CRC Report No. AVFL-29-3

METHOD DEVELOPMENT FOR FID AND FID-MS DETAILED HYDROCARBON ANALYSIS

Final Report

August 2026

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Final Report

METHOD DEVELOPMENT FOR FID AND FID-MS DETAILED HYDROCARBON ANALYSIS

Project AVFL-29-3

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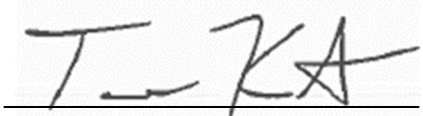

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FOREWARD

This report documents an inter-laboratory study (ILS) conducted by the Coordinating Research Council (CRC). The project, performed under CRC contract AVFL-29-3, was initiated in November of 2023, and final test laboratory results were submitted in December of 2025. The internal SwRI project number was 08.28577. Statistical analysis was conducted by Dr. Travis Kostan.

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1.0 EXECUTIVE SUMMARY

An inter-laboratory study (ILS) was conducted by the Coordinating Research Council with the goal of developing precision statements (repeatability and reproducibility) for the parameters C6-C14 aromatics, total aromatics, and fuel particulate matter index (PMI) as determined by ASTM D6730, *Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100-Metre Capillary (with Precolumn) High-Resolution Gas Chromatography*.

The objective of this research program was the standardization and improvement of both FID and FID-MS detailed hydrocarbon analysis (DHA), with a focus on enabling a more consistent ASTM D6730 application across participating labs. Key elements included the distribution of common standards and data files, verification and updating of laboratory specific templates, and collection of C6–C14 aromatic volume percent data (with PMI reporting optional). ASTM D6730 details high-resolution gasoline hydrocarbon and aromatic speciation for better compositional and emissions insight. However, it also poses some practical challenges, including long runtimes (3-4 hours per sample), substantial requirements for manual chromatographic review, strong dependence operator expertise, coelution issues, and difficulties in maintaining consistent templates across laboratories. The work described here was intended to develop and harmonize a more robust FID/FID-MS DHA approach and shared template framework for D6730 analysis.

Three different gas chromatography (GC) methods are used and allowable in D6730:

1) Flame Ionization Detector with helium carrier gas (FID-He)
2) Flame Ionization Detector with hydrogen carrier gas (FID-H2)
3) Flame Ionization Detector Mass Spectrometry (FID-MS) with helium carrier gas

This project sought to develop precision statements for the C6-C14 aromatics parameters separately for each GC method, along with fuel PMI, for a total of 31 different precision statements. Precision statements would be developed in accordance with ASTM D6300, *Standard Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products, Liquid Fuels, and Lubricants.*

ASTM D6300 has many minimum requirements listed in order to ensure that precision statements are sufficiently robust and reliable for test method users. A few of these requirements are:

- A minimum of six (6) labs, but a recommendation to include at least eight (8) or more
- At least six samples spanning the range of the test method
- At least 30 degrees of freedom in both repeatability and reproducibility

Prior to study initiation, the project team was able to obtain the following number of laboratories for each GC Method who stated they would be willing to participate in the ILS:

- FID-He – 15 laboratories
- FID-H2 – 11 laboratories
- FID-MS – 13 laboratories

Unfortunately, the return on lab data was much lower than expected. The final return of labs which submitted data by each GC method was:

- FID-He – 5 laboratories

- FID-H2 – 6 laboratories
- FID-MS – 7 laboratories

In addition to the problem of low participation among labs, a consistent lab-bias problem was observed within the data. An example is shown in Figure 1 for the fuel PMI data. This fuel PMI data was submitted by a total of 12 laboratories and was not separated by GC method. From the plot, one can see that within a sample, dots of the same color, representing repeats within a lab, tended to be grouped very tightly together, in particular when compared with the spread across labs within a sample. One can also see that if a lab tended to be above, below, or at the average of the sample when compared to other labs, this was fairly consistent across all of the samples. This is an indicator that the test procedure for ASTM D6730 is not adequately standardized, and that labs are consistently executing the test method differently. This problem is the same as what was observed with the aromatics parameters and warrants future investigation to further standardize the test method.

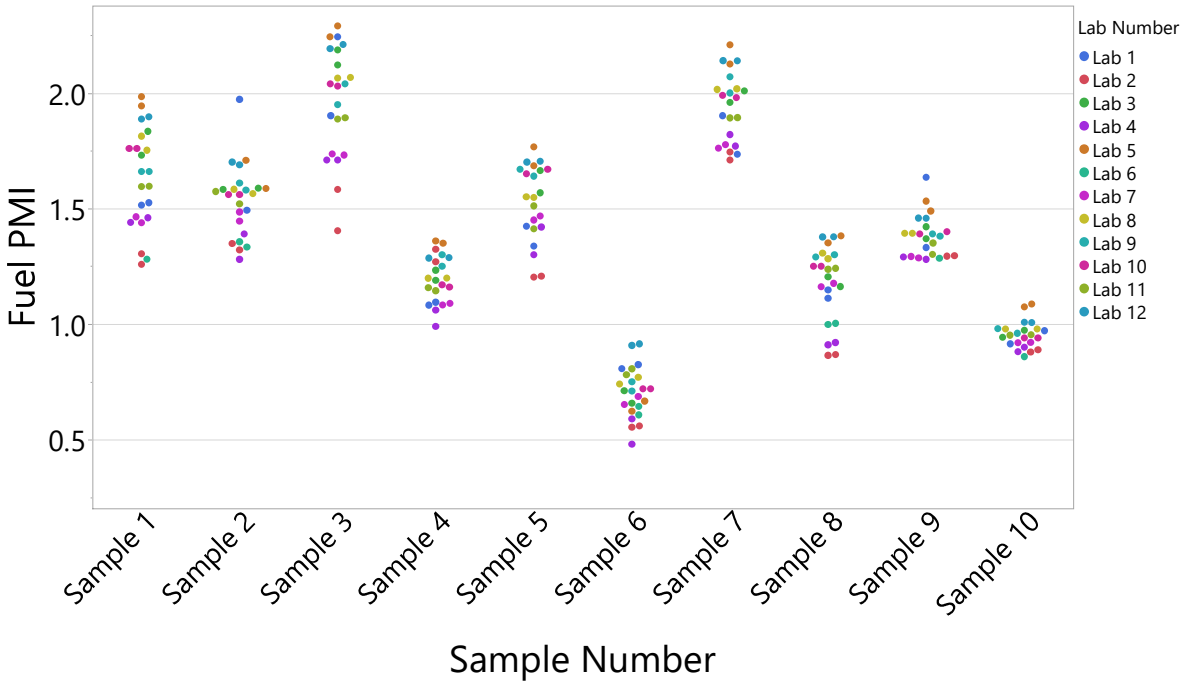


Figure 1: Fuel PMI by Sample, Colored by Lab

The bias observed in the testing, in conjunction with the low number of participating labs, resulted in precision estimates which could not be considered valid by ASTM D6300 standards. The data provided fairly strong evidence that D6730 is not adequately standardized, with labs consistently executing the test method differently and displaying a similar bias across all samples. The data pool was too small to provide any reliable comparison of the precision between the three GC methods examined in this work. The precision estimates were made and are provided in this report, but of the 30 aromatic parameter/method combinations which were analyzed, along with Fuel PMI, only total aromatics by FID-MS was able to achieve valid repeatability and reproducibility estimates, shown below.

Total Aromatics by FID-MS
Repeatability, r = 0.1204*(x^0.6969)
Reproducibility, R = 0.3214*(x^0.6969)
, where “x” is the average of two results being compared in volume percent.

The above estimates are valid for total aromatic content between 8% and 45% volume.

Poor repeatability and reproducibility (R&R) results were obtained, in part due to an increased number of laboratory dropouts and the absence of a formal requirement to verify data quality following successful check-standard performance and template updates. Although initial participation was strong, with 39 laboratories committed to participating, several laboratories subsequently withdrew from the study without providing specific reasons. The resulting reduction in active participants, combined with delays at some laboratories, introduced significant schedule risk and contributed to the project extending over multiple years.

These outcomes highlight opportunities to strengthen process discipline through more prescriptive and standardized instructions for participating laboratories. In addition, method harmonization remains critical, as laboratories operate with diverse software and analytical tool configurations and must be aligned to common reference files and to the guidance provided in ASTM D6730.

2.0 INTRODUCTION

An inter-laboratory study (ILS) was conducted by the Coordinating Research Council with the goal of developing precision statements (repeatability and reproducibility) for the parameters C6-C14, total aromatics, and fuel particulate matter index (PMI) as determined by ASTM D6730, *Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100-Metre Capillary (with Precolumn) High-Resolution Gas Chromatography*.

ASTM D6730 was selected as a reference method for this ILS because it provides detailed profiling of more than 800 compounds and quantifies aromatics from C6 to C14, thereby offering a substantially more speciated characterization of gasoline composition than D5769. In particular, D6730 yields a comprehensive carbon-number-based breakdown and captures heavier aromatic species that may not be captured by D5769, making it especially useful for emissions modeling and other applications requiring high compositional resolution. Relative to D5769, ASTM D6730 provides a speciated representation of heavier aromatics (C10+), which is important because underestimation of these species can impact PEI/PMI calculations and particulate emissions assessments.

The objective of this research program was the standardization and improvement of both FID and FID-MS detailed hydrocarbon analysis (DHA), with a focus on enabling a more consistent ASTM D6730 application across participating labs. Key elements included the distribution of common standards and data files, verification and updating of laboratory specific templates, and collection of C6–C14 aromatic volume percent data (with PMI reporting optional). ASTM D6730 details high-resolution gasoline hydrocarbon and aromatic speciation for better compositional and emissions insight. However, it also poses some practical challenges, including long runtimes (3-4 hours per sample), substantial requirements for manual chromatographic review, strong dependence operator expertise, coelution issues, and difficulties in maintaining consistent templates across laboratories. The work described here was intended to develop and harmonize a more robust FID/FID-MS DHA approach and shared template framework for D6730 analysis.

Each participating laboratory followed a standardized execution package (Appendix E). Laboratories were expected to receive (SDS), gasoline samples, and multiple reference standards; were instructed to refrigerate all materials at <= 4°C / 39°F; analyze samples in prescribed batches; complete raw data acquisition within two months of the start of testing; and submit data and results through the ASANA platform. Reporting was centered on C6-C14 aromatic volume percent, with PMI reporting optional. A central technical emphasis was standardization across different laboratory software environments. Separate guidance was provided for laboratories with and without Hydrocarbon Expert Software, but all applications relied on common reference materials (QT2, OXY, and PONA files), verification that compounds assignments were appropriate for each laboratories system, and use of ASTM D6730 and appendix X1 as the foundational reference for template construction and data interpretation.

Three different gas chromatography (GC) methods are used and allowable in D6730:

4) Flame Ionization Detector with helium carrier gas (FID-He)
5) Flame Ionization Detector with hydrogen carrier gas (FID-H2)
6) Flame Ionization Detector Mass Spectrometry (FID-MS) with helium carrier gas

This project sought to develop precision statements for the C6-C14 aromatics parameters separately for each GC method, along with fuel PMI, for a total of 31 different precision statements. Precision statements would be developed in accordance with ASTM D6300, *Standard Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products, Liquid Fuels, and Lubricants.*

3.0 STUDY DESIGN

ASTM D6300 has many minimum requirements listed in order to ensure that precision statements are sufficiently robust and reliable for test method users. A few of these requirements are:

- A minimum of six (6) labs, but a recommendation to include at least eight (8) or more
- At least six samples spanning the range of the test method
- At least 30 degrees of freedom in both repeatability and reproducibility

The planning stage of the ILS is critical in order to ensure that the final minimum requirements are met. The repeatability degrees of freedom requirement is very easy to plan for, as each repeated test result in a lab will add one repeatability degree of freedom. The thirty degrees of freedom for reproducibility is more challenging, as this value is a calculation which is a function of the test data variability, and therefore cannot be known in advance. It can be estimated from pilot data if available, but that was not the case for this work. The larger the ratio of the lab bias variance component relative to the lab-sample interaction and repeats variance components, the more difficult it is to achieve 30 reproducibility degrees of freedom. Therefore, even though D6300 says only a minimum of six labs are required, with only six labs, the reproducibility degrees of freedom would only exceed 30 in test methods with very low laboratory bias. Without pilot test data and without knowledge of the amount of lab bias that would be observed through this CRC project testing, this project team sought to obtain a minimum of 10 laboratories for each GC method in order to increase the likelihood of meeting the minimum requirements stated in D6300.

The project team was able to obtain the following number of laboratories for each GC Method who stated they would be willing to participate in the ILS:

- FID-He – 15 laboratories
- FID-H2 – 11 laboratories
- FID-MS – 13 laboratories

Not all of the labs above were unique labs, as some labs possessed the capability of running more than one of the GC methods and volunteered to participate in more than one method. The number of participating laboratories appeared sufficient to move forward with testing.

Next, 10 fuel samples were obtained which spanned the typical range for gasoline from a low aromatic content of 8 volume percent to a high aromatic content of approximately 45 volume percent. Samples were prepared, randomized, and shipped by Spectrum Quality Standards. The 10 samples were prepared into 20 containers (10 samples to be analyzed in duplicate) and blind-coded with a randomly assigned letter from A-T. As seen from the total participants by method above, there was a total of 39 sample sets prepared and shipped to labs. Each lab was assigned a sample

set and a run order sequence from one of the six sequences shown in Table 1. In the table, the 5-digit numeric codes represent the unique sample IDs. These sample IDs were only given to the statistician for de-coding and were not known by the labs. For labs which were running more than one GC method, these labs received separate unique sample sets and sequence assignments for each GC method.

Table 1: Sample Randomization and Run Order Sequences

	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6
Sample Labeled: A	14858	14745	14734	14848	14865	14866
Sample Labeled: B	14745	14734	14848	14865	14866	14869
Sample Labeled: C	14734	14848	14865	14866	14869	14785
Sample Labeled: D	14848	14865	14866	14869	14785	14798
Sample Labeled: E	14865	14866	14869	14785	14798	14732
Sample Labeled: F	14866	14869	14785	14798	14732	14858
Sample Labeled: G	14869	14785	14798	14732	14858	14745
Sample Labeled: H	14785	14798	14732	14858	14745	14734
Sample Labeled: I	14798	14732	14858	14745	14734	14848
Sample Labeled: J	14732	14858	14745	14734	14848	14865
Sample Labeled: K	14745	14734	14848	14865	14866	14858
Sample Labeled: L	14734	14848	14865	14866	14869	14745
Sample Labeled: M	14848	14865	14866	14869	14785	14734
Sample Labeled: N	14865	14866	14869	14785	14798	14848
Sample Labeled: O	14866	14869	14785	14798	14732	14865
Sample Labeled: P	14869	14785	14798	14732	14858	14866
Sample Labeled: Q	14785	14798	14732	14858	14745	14869
Sample Labeled: R	14798	14732	14858	14745	14734	14785
Sample Labeled: S	14732	14858	14745	14734	14848	14798
Sample Labeled: T	14858	14745	14734	14848	14865	14732

3.1 Low Lab Data Return

Unfortunately, the return on lab data was much lower than expected. The final return of labs which submitted data by method was:

- FID-He – 5 laboratories (vs. 15 expected)
- FID-H2 – 6 laboratories (vs. 11 expected)
- FID-MS – 7 laboratories (vs. 13 expected)

Of the seven labs submitting data for FID-MS, one of the labs only returned nine of the twenty runs in the sample set, which after decoding, included three samples with duplicates and three single tests.

This low laboratory participation made meeting the D6300 minimum requirements impossible for the FID-He data set (5 labs < 6 minimum), and very difficult for the FID-H2 and FID-MS data sets, which would have to produce a very low lab bias variance component in the analysis to have a chance to achieve 30 reproducibility degrees of freedom. The list of labs who submitted data are included in Table 2 below.

Table 2: List of Participating Laboratories

1. Chevron 100 Chevron Way Building 51 Room 1151 Richmond, CA 94802	2. CO-OP Refinery Complex Lab Samples 550 East 9th Ave Regina, Sask S4P 3A1
3. Coryton UK The Manorway Stanford-le-Hope Essex, SS17 9LN, UK	4. Southwest Research Institute 9503 West Commerce Bldg 242 San Antonio, Texas 78227
5. Da Vince Rotterdam Sydneystraat 5 3047 BP Rotterdam The Netherlands	6. Gage 731 Wanda St Ferndale, MI 48220
7. General Motors - Milford 3300 General Motors Road Building 42A Milford, MI 483380	8. Halterman Carless - Germany GC-Labor Schlengendeich 17 D-21107 Hamburg, Germany
9. Innotech Alberta Applied Chemistry Services 250 Karl Clark Rd Edmonton, Alberta T6N 1E4	10. Marathon Petroleum 11631 Old U.S. Hwy 23 Catlettsburg, KY 41129
11. Phillips 66 17591 State Highway 123 Bartlesville, OK 74003	12. SGS Germany SGS Germany GmbH Fuel Technology Centre Am Neuen Rheinhaden 12A 67346 Speyer Germany
13. Shell Germany Deutschalnd GmbH Hohe-Schaar-Straße 36 21107 Hamburg Germany	14. Total Energy 7600 32nd Street Port Arthur, TX 77642
15. Valero Refining 3651 Park Rd Benicia, CA 94510	16. VUV 1500 Arrow Point Drive, Ste 805 Cedar Park, TX 78613

4.0 ANALYSIS AND RESULTS

Analysis was conducted using the ILS Evaluator© software (version 1.2.10.0) from ROFA®. The software conducts all analysis as described in ISO 4259-1, which ASTM recognizes as a technically aligned method to ASTM D6300. ISO 4259-1 performs all of the same tests and applies the same methodology. The following are the order of analyses conducted by the program:

1) Generalized Extreme Studentized Deviate (GESD) Pre-screening
2) Transformation Analysis

3) Cochran's Test (uniformity of repeatability)
4) Hawkin's Test (uniformity of reproducibility)
5) Variance Ratio Test (rejection of an entire sample)
6) Estimate values (if necessary)
7) Hawkin's Test (Outlying Laboratories)
8) Cook's Distance (sample leverage)
9) ANOVA, Repeatability, and Reproducibility

If any outliers are rejected in steps 3-8, the process repeats steps 2-8 until no further outliers are rejected.

Prior to conducting the analysis, the samples were re-labeled from a 5-digit numeric code to Sample 1, Sample 2, …, Sample 10. For the FID-MS data, lab identities were blinded and re-labeled as Lab 1, Lab 2, …, Lab 7 (up to Lab 6 for FID-H2; up to Lab 5 for FID-He). Since the GC methods were analyzed separately, labs were always numbered beginning with Lab 1 on each method. Therefore Lab 1 in the FID-H2 analysis is a different lab from Lab 1 in the FID-He and FID-MS analyses. Lab 2 also represents different labs in each analysis, and so forth.

4.1 Total Aromatics (Volume Percent)

A plot of the total aromatics (volume percent) data is shown in Figure 2. All data is shown in the plot. However, values which were ultimately rejected via one of the outlier tests is identified by an "x" in the figure. Table 3 provides a legend for outlier rejection reasons that are colored and labeled in the tables that follow. Table 4 shows the FID-H2 data, of which 36.7% of the data was rejected. Table 5 shows the FID-He data, of which 3.0% of the data was rejected. Table 6 shows the FID-MS data, of which 7.8% was rejected.

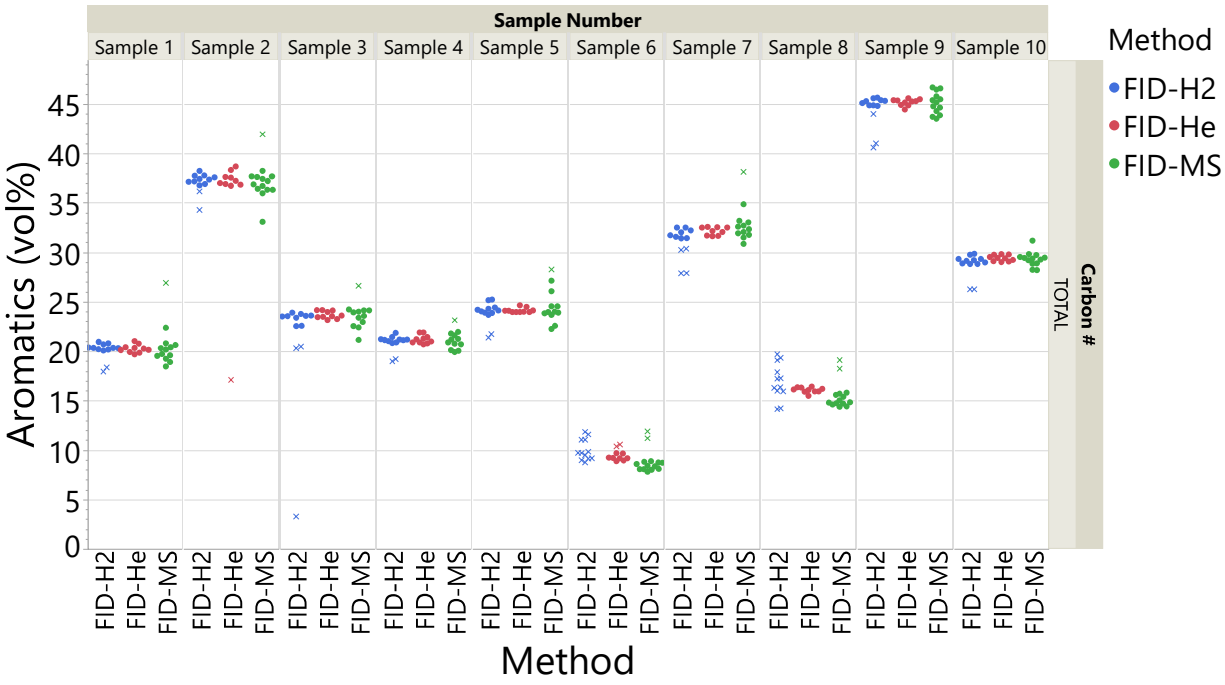


Figure 2: Total Aromatics (Vol%) By Sample and GC Method

Table 3: Legend for Outlier Rejection Reasons

Label
x: missing
Gd: GESD (diff) rejection
Gs: GESD (sum) rejection
C: Cochran's rejection
H: Hawkin's rejection
V: Variance test (sample) rejection
L: Hawkin's (laboratory) rejection
D: Cook's Distance rejection

Table 4: Outliers for Total Aromatics (Vol. %), FID-H2

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	20.67	37.16	22.52	21.12	24.09
Lab1 (R2)	20.17	37.40	22.54	21.17	24.18
Lab2 (R1)	20.92	38.22	23.54	21.10	25.20
Lab2 (R2)	20.78	37.75	23.59	21.20	25.14
Lab3 (R1)	L 18.35	L 36.13	L 20.29	L 18.98	L 21.34
Lab3 (R2)	L 17.92	L 34.27	L 20.44	L 19.19	L 21.70
Lab4 (R1)	20.32	36.91	23.56	20.81	24.28
Lab4 (R2)	20.06	36.76	23.50	20.87	24.41
Lab5 (R1)	20.18	37.73	23.38	20.99	23.66
Lab5 (R2)	20.31	37.57	Gd 3.26	21.83	24.02
Lab6 (R1)	20.30	37.35	23.89	21.42	23.85
Lab6 (R2)	20.36	37.12	23.75	21.15	23.87

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	V 11.83	H 30.23	V 17.87	C 43.97	28.82
Lab1 (R2)	V 11.57	H 30.37	V 19.69	45.27	28.87
Lab2 (R1)	V 11.03	31.55	V 19.08	44.85	29.20
Lab2 (R2)	V 11.04	31.70	V 19.31	45.08	29.11
Lab3 (R1)	V 8.74	L 27.86	L 14.13	L 40.99	L 26.25
Lab3 (R2)	V 9.16	L 27.88	L 14.20	L 40.57	L 26.25
Lab4 (R1)	V 9.82	31.41	V 17.23	44.80	28.81
Lab4 (R2)	V 9.69	31.42	V 17.20	44.85	28.97
Lab5 (R1)	V 8.96	32.21	V 15.97	45.57	29.31
Lab5 (R2)	V 9.12	32.02	V 16.34	45.37	29.84
Lab6 (R1)	V 9.70	32.49	V 16.28	45.64	29.74
Lab6 (R2)	V 9.47	32.49	V 15.93	45.30	29.31

Table 5: Outliers for Total Aromatics (Vol. %), FID-He

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	20.31	36.99	23.58	20.78	23.96
Lab1 (R2)	20.38	36.90	23.52	20.88	24.08
Lab2 (R1)	20.11	38.67	24.10	21.89	24.63
Lab2 (R2)	20.13	38.31	23.96	21.89	24.48
Lab3 (R1)	20.24	37.21	23.23	20.69	23.97
Lab3 (R2)	19.68	Gd 17.09	23.42	21.41	23.95
Lab4 (R1)	19.83	36.72	23.14	20.96	23.95
Lab4 (R2)	19.91	36.82	23.47	20.88	23.95
Lab5 (R1)	20.75	37.54	24.14	21.21	24.10
Lab5 (R2)	21.01	37.62	24.13	21.27	24.09

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	8.86	32.05	15.89	44.84	29.09
Lab1 (R2)	8.94	32.15	15.92	45.13	29.21
Lab2 (R1)	H 10.36	32.53	16.18	45.24	29.80
Lab2 (R2)	H 10.55	32.49	16.41	45.57	29.76
Lab3 (R1)	9.15	x	16.11	45.35	29.74
Lab3 (R2)	9.20	31.62	15.92	45.28	29.37
Lab4 (R1)	9.23	31.64	16.06	44.89	29.01
Lab4 (R2)	9.17	31.68	15.48	44.42	29.05
Lab5 (R1)	9.67	32.56	16.29	45.38	29.52
Lab5 (R2)	9.64	32.51	16.33	45.48	29.43

Table 6: Outliers for Total Aromatics (Vol. %), FID-MS

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	18.89	35.97	22.38	19.92	22.23
Lab1 (R2)	19.23	36.31	22.52	20.04	22.54
Lab2 (R1)	19.70	38.23	24.20	21.92	23.97
Lab2 (R2)	20.16	37.61	23.55	21.59	23.90
Lab3 (R1)	20.38	37.67	23.99	21.77	24.52
Lab3 (R2)	20.61	37.67	24.12	21.24	24.52
Lab4 (R1)	19.52	36.86	22.93	20.73	23.82
Lab4 (R2)	19.57	37.20	23.38	20.69	23.64
Lab5 (R1)	20.78	37.42	23.91	20.88	C 28.24
Lab5 (R2)	20.30	36.69	24.12	21.16	23.94
Lab6 (R1)	Gd 26.89	Gd 41.92	21.12	20.11	27.12
Lab6 (R2)	22.35	33.07	Gd 26.61	Gd 23.12	26.06
Lab7 (R1)	18.45	36.33	x	x	x
Lab7 (R2)	x	36.40	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	8.85	31.47	14.41	43.84	28.22
Lab1 (R2)	8.80	30.85	14.36	44.26	28.88
Lab2 (R1)	8.58	33.16	14.71	46.45	29.72
Lab2 (R2)	8.72	33.02	14.59	46.57	29.37
Lab3 (R1)	8.69	31.92	15.38	45.14	29.43
Lab3 (R2)	8.00	32.70	15.80	43.51	29.18
Lab4 (R1)	8.04	32.58	14.82	45.46	29.24
Lab4 (R2)	8.34	31.76	15.03	44.76	28.84
Lab5 (R1)	8.05	32.04	15.68	45.38	29.45
Lab5 (R2)	7.78	32.32	15.58	45.76	29.81
Lab6 (R1)	Gs 11.88	C 38.12	Gs 19.09	43.70	31.18
Lab6 (R2)	Gs 11.18	34.84	Gs 18.21	46.66	29.52
Lab7 (R1)	8.39	x	14.71	44.62	28.19
Lab7 (R2)	8.08	x	14.78	x	x

Next, for the non-rejected results, the repeats standard deviations and labs standard deviations by sample were plotted in JMP Pro® (version 18.2.2) against each sample's mean value in order to observe whether or not the variability changes with sample level. The results are shown in Figure 3. For this data, we see that the FID-MS results had higher variability than the other two GC methods for total aromatic content above 20% volume. However, this is potentially an artifact of small number of participant labs, as one would expect the FID-MS data to be less variable, with all other things being equal.

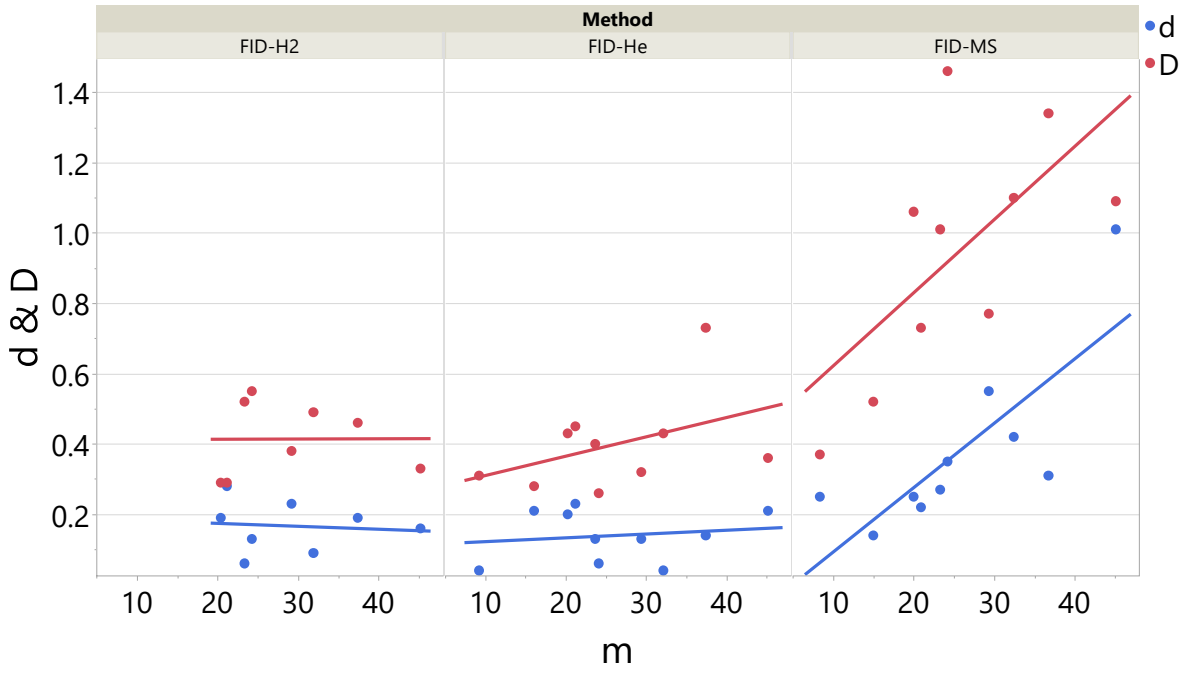


Figure 3: Repeats Standard Deviation (d) and Labs Standard Deviation (D) vs. Sample Mean (m), Total Aromatics

Finally, the repeatability (r) and reproducibility (R) were calculated from the analysis of variance (ANOVA) model results. To complete all of the required steps, tables, plots described in ISO 4259-1, the ILS Evaluator software produced around 30 pages of output for each individual GC method analysis. Since inclusion of the full ILS Evaluator output for all parameter/method combinations would total approximately 1000 pages, only key takeaways were extracted and included in this report, and the full output is excluded. However, to provide one example, the full 33-page output for total aromatics via FID-MS is included as Appendix D, with others available upon request to CRC. Among some of the final items produced by the software on the summary page include the repeatability and reproducibility functions in original units and validity checks for these functions (minimum labs, repeatability and reproducibility degrees of freedom, lab bias variance component F-test, among several others).

For the total aromatics, the repeatability and reproducibility functions were taken and plotted using JMP Pro and are shown in Figure 4. The repeatability and reproducibility equations are shown in

Table 7, along with their respective degrees of freedom and range of samples included in the analysis. If the precision values are not valid due to not satisfying one of the minimum requirements, this is shown in the final column labeled "Validity Problems." As seen in the table, only the FID-MS data produced a valid repeatability and reproducibility statement. The FID-H2 data failed three requirements, the data did not have the minimum number of labs (one of the 6 labs reporting data was rejected via Hawkin's Test), did not have the minimum number of Labs*Samples (must be at least 42), and had too large a percentage of data rejected (must be less than 10%). The FID-He data did not have enough lab participation, did not obtain the minimum 30 reproducibility degrees of freedom, and had a statistically significant F-test value when testing the ratio of mean sum of squares for labs to the mean sum of squares for the lab-sample interaction, indicating consistent, non-random lab bias.

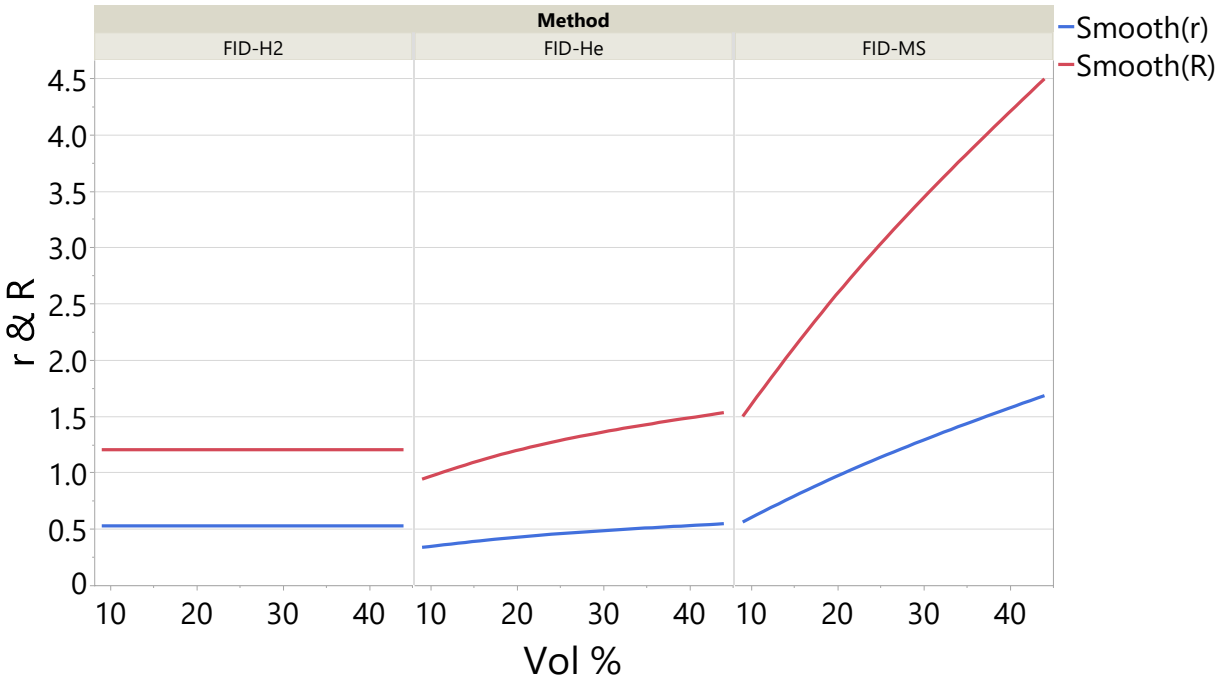


Figure 4: Repeatability and Reproducibility Curves, Total Aromatics

Table 7: Repeatability and Reproducibility Summary, Total Aromatics

GC Method	Repeatability (r)*	DF (r)	Reproducibility (R)*	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.5264	37	1.2024	32	20-45	Samples*Labs, # Labs, Rejected %
FID-He	0.1686*(x^0.3099)	47	0.4737*(x^0.3099)	10	9-45	# Labs, DF (R), F-test
FID-MS	0.1204*(x^0.6969)	55	0.3214*(x^0.6969)	55	8-45	None

*x is the average of two values being compared, in original units (vol%)

4.2 C6-C14 Aromatics

The analysis was similarly conducted for the C6 through C14 aromatics parameters. C13 and C14 aromatics had too many zero values to be analyzed for precision. Of the C6-C12 parameters, none of the parameter/method combinations met the minimum requirements for valid precision statements. This was not a surprise given the lack of participating labs along with the strong presence of lab bias in the data. Table 8 through Table 10 show the repeatability and reproducibility equations for the FID-MS, FID-He, and FID-H2 data, respectively, along with the associated degrees of freedom. As can be seen from the tables, only C7 aromatics via the FID-MS obtained the minimum reproducibility degrees of freedom, but this precision estimate can still not be considered valid, as this data had too many rejected values (10.9% > 10% max). Obviously, all of the FID-He data was invalid from the start due to having less than six labs, but many other validity criteria were not met for this data. Primarily, the F-test for the lab bias variance component indicated a highly significant lab bias presence throughout this data. For all GC methods, labs tended to be very repeatable on duplicates of the same sample within the same laboratory, but there was a consistent bias when looking across labs that tended to be consistent across samples. This is the exact recipe that's leads to a loss of reproducibility degrees of freedom.

A more detailed analysis of the C6-C12 aromatics parameters, similar to what was provided for total aromatics, can be found in Appendix C.

Table 8: Repeatability and Reproducibility, C6-C12 Aromatics, FID-MS

Aromatics, FID-MS				
	r	df r	R	df R
C6	0.0368*(x^0..7174)	58	0.1010*(x^0..7174)	20
C7*	0.0065*(x+21.4109)	53	0.0311*(x+21.4109)	31
C8	0.0142*(x+10.1493)	53	0.0527*(x+10.1493)	18
C9	0.1189*(x^0.9373)	60	0.2207*(x^0.9373)	16
C10	0.0481*(x+5.5797)	52	0.1073*(x+5.5797)	18
C11	0.2042*(x+0.4425)	61	0.5606*(x+0.4425)	18
C12	0.4596*(x+0.0499)	61	1.8894*(x+0.0499)	11

*too many rejected values

Table 9: Repeatability and Reproducibility, C6-C12 Aromatics, FID-He

Aromatics, FID-He				
	r	df r	R	df R
C6	0.0100	48	0.0288	18
C7	0.0097*(x+0.5619)	44	0.0409*(x+0.5619)	17
C8	0.0069*(x+9.3921)	47	0.0220*(x+9.3921)	7
C9	0.0880*(x^0.3330)	47	0.1734*(x^0.3330)	12
C10	0.0966	49	0.3899*(x-0.1409)	9
C11	0.0646*(x+0.1322)	45	0.7203*(x+0.1322)	5
C12	0.2617*(x-0.0109)	45	0.8314*(x-0.0109)	11

Table 10: Repeatability and Reproducibility, C6-C12 Aromatics, FID-H2

Aromatics, FID-H2				
	r	df r	R	df R
C6	0.0146*(x^0.5391)	56	0.0474*(x^0.5391)	17
C7	0.1323	55	1.0530	21
C8	0.0394*(x^0.7391)	42	0.0843*(x^0.7391)	12
C9	0.0870*(x^0.4329)	54	0.7067*(x^0.4329)	11
C10	0.0294*(x+3.5206)	57	0.2453*(x+3.5206)	9
C11	0.1690*(x^0.7991)	56	0.7734*(x^0.7991)	24
C12	0.3488*(x+0.0468)	59	1.2907*(x+0.0468)	9

4.3 Fuel Particulate Matter Index (PMI)

Fuel particulate matter index (PMI) data was analyzed with all data combined (not separated by GC method). Only 12 of the labs submitted data for fuel PMI. The labs were again randomly assigned a lab number from Lab 1 up to Lab 12.

A plot of the data is shown in Figure 5, colored by lab. From the plot, one can see that within a sample, dots of the same color, representing repeats within a lab, tended to be grouped very tightly together, in particular when compared with the spread across labs within a sample. One can also see that if a lab tended to be above, below, or near the average of the sample when compared to other labs, this was fairly consistent across all samples. This is an indicator that the test procedure for ASTM D6730 is not adequately standardized, and that labs are consistently executing the test method differently. This problem is the same as what was observed with the aromatics parameters and warrants future investigation to further standardize the test method.

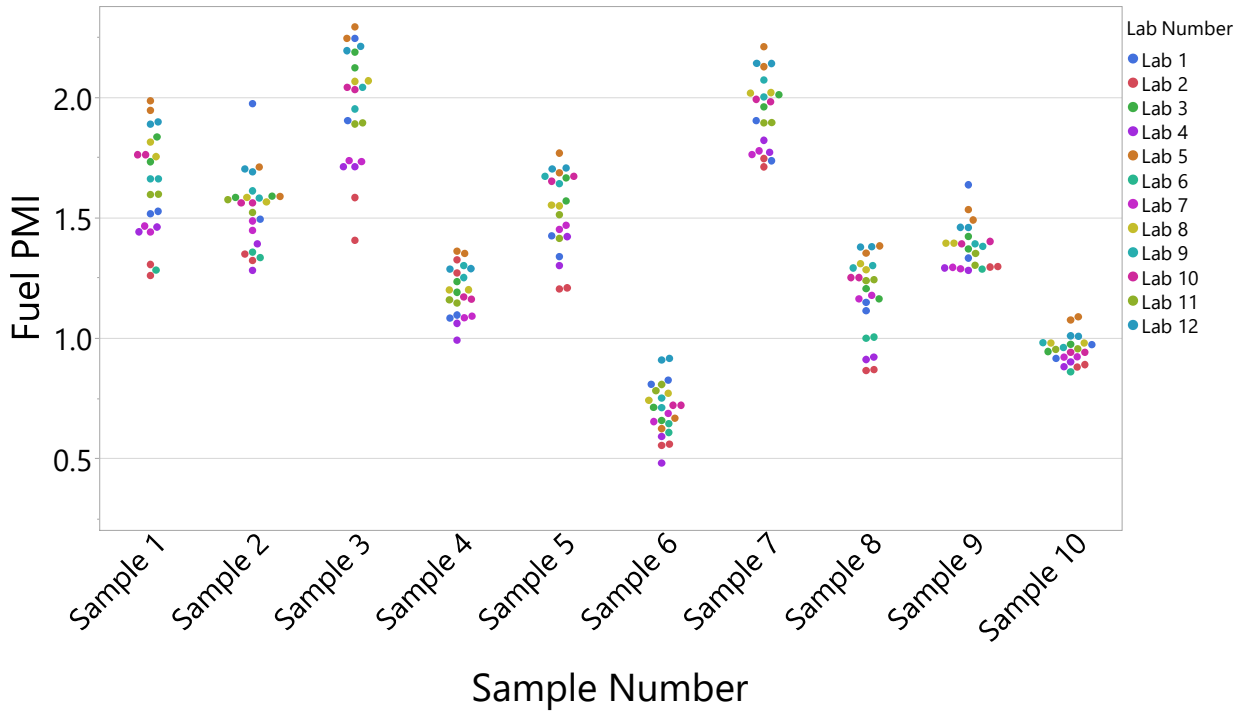


Figure 5: Fuel PMI by Sample, Colored by Lab

Table 11 provides the outliers for the fuel PMI data. Only 1.7% of the data was rejected.

Table 11: Outliers for Fuel PMI

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	1.53	1.49	1.90	1.08	1.34
Lab1 (R2)	1.51	Gd 1.97	C 2.24	1.09	1.42
Lab2 (R1)	1.26	1.35	1.58	1.32	1.21
Lab2 (R2)	1.30	1.32	1.40	1.27	1.20
Lab3 (R1)	1.73	1.59	2.19	1.23	1.66
Lab3 (R2)	1.83	1.58	2.12	1.19	1.57
Lab4 (R1)	1.44	1.28	1.71	0.99	1.42
Lab4 (R2)	1.46	1.39	1.71	1.06	1.30
Lab5 (R1)	1.98	1.71	2.24	1.35	1.77
Lab5 (R2)	1.94	1.59	2.29	1.36	1.69
Lab6 (R1)	1.28	1.33	x	x	x
Lab6 (R2)	x	1.36	x	x	x
Lab7 (R1)	1.46	1.49	1.74	1.08	1.47
Lab7 (R2)	1.44	1.45	1.73	1.09	1.45
Lab8 (R1)	1.81	1.58	2.06	1.20	1.55
Lab8 (R2)	1.75	1.56	2.07	1.20	1.55
Lab9 (R1)	1.66	1.58	1.95	1.25	1.67
Lab9 (R2)	1.66	1.61	2.04	1.30	1.64
Lab10 (R1)	1.76	1.56	2.04	1.16	1.65
Lab10 (R2)	1.76	1.56	2.03	1.17	1.67
Lab11 (R1)	1.59	1.57	1.89	1.14	1.41
Lab11 (R2)	1.60	1.52	1.89	1.16	1.51
Lab12 (R1)	1.89	1.70	2.19	1.29	1.70
Lab12 (R2)	1.90	1.69	2.21	1.29	1.70

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.82	1.90	1.15	1.33	0.91
Lab1 (R2)	0.81	1.74	1.11	Gd 1.64	0.97
Lab2 (R1)	0.55	1.74	0.86	1.29	0.89
Lab2 (R2)	0.56	1.71	0.87	1.30	0.88
Lab3 (R1)	0.71	1.96	1.16	1.42	0.97
Lab3 (R2)	0.66	2.01	1.20	1.37	0.94
Lab4 (R1)	C 0.48	1.82	0.91	1.28	0.88
Lab4 (R2)	0.59	1.77	0.92	1.29	0.90
Lab5 (R1)	0.67	2.13	1.35	1.49	1.09
Lab5 (R2)	0.62	2.21	1.38	1.53	1.07
Lab6 (R1)	0.64	x	1.00	1.28	0.86
Lab6 (R2)	0.61	x	1.00	x	x
Lab7 (R1)	0.65	1.76	1.16	1.29	0.92
Lab7 (R2)	0.69	1.78	1.18	1.29	0.92
Lab8 (R1)	0.77	2.02	1.31	1.39	0.98
Lab8 (R2)	0.74	2.02	1.28	1.39	0.98
Lab9 (R1)	0.71	2.00	1.30	1.39	0.96
Lab9 (R2)	0.75	2.07	1.29	1.38	0.98
Lab10 (R1)	0.72	1.98	1.25	1.39	0.94
Lab10 (R2)	0.72	1.99	1.25	1.40	0.94
Lab11 (R1)	0.78	1.89	1.24	1.30	0.95
Lab11 (R2)	0.81	1.89	1.24	1.35	0.95
Lab12 (R1)	0.91	2.14	1.38	1.46	1.01
Lab12 (R2)	0.91	2.14	1.38	1.46	1.01

The repeatability and reproducibility curves are plotted in Figure 6 and equations given in Table 12. Given the strong lab bias variance component observed, it is not a surprise that the data did not meet the reproducibility degrees of freedom validity minimum of 30.

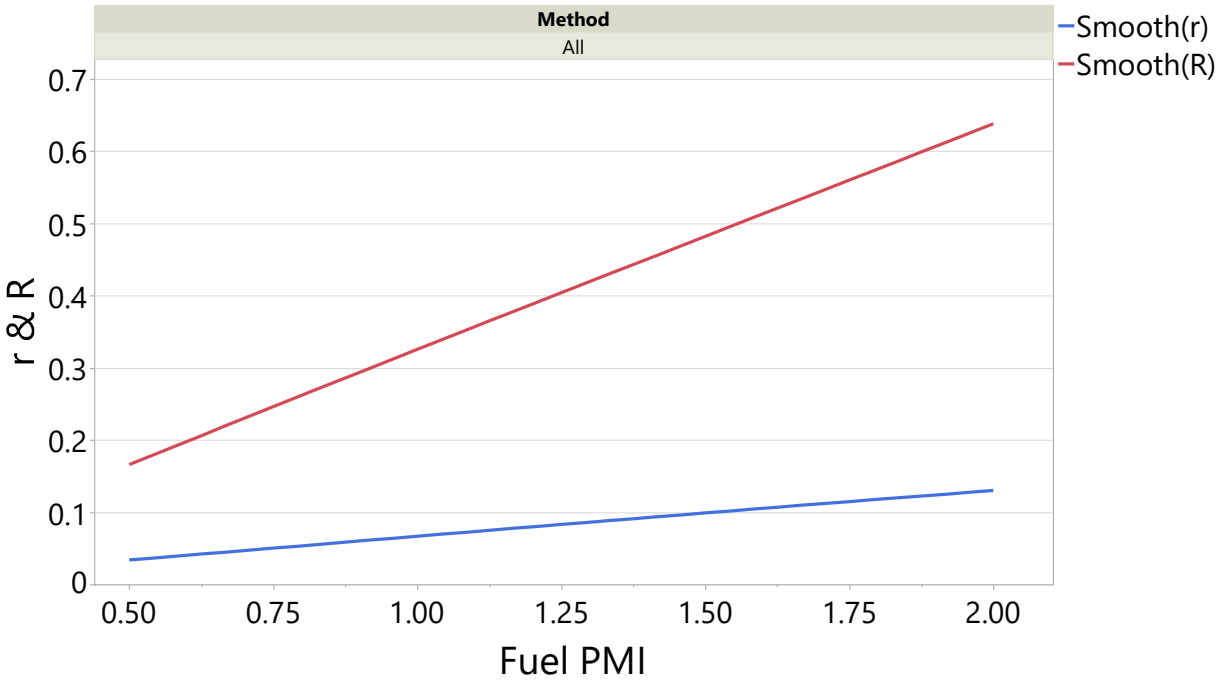


Figure 6: : Repeatability and Reproducibility Curves, Fuel PMI

Table 12: Repeatability and Reproducibility Summary, Fuel PMI

GC Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	PMI Range	Validity Problems
All	0.0666*(x^0.9690)	109	0.3257*(x^0.9690)	23	0.50-2.00	DF(R), F-test

5.0 CONCLUSIONS AND LESSONS LEARNED

The bias observed in the testing, in conjunction with the low number of participating labs, resulted in precision estimates which could not be considered valid by ASTM D6300 standards. The data provided fairly strong evidence that D6730 is not adequately standardized, with labs consistently executing the test method differently and displaying a similar bias across all samples. The data pool was too small to provide any reliable comparison of the precision between the three GC methods examined in this work. The precision estimates were made and are provided in this report, but of the 30 aromatic parameter/method combinations which were analyzed, along with Fuel PMI, only total aromatics by FID-MS was able to achieve valid repeatability and reproducibility estimates, shown below.

Total Aromatics by FID-MS
Repeatability, r = 0.1204*(x^0.6969)
Reproducibility, R = 0.3214*(x^0.6969)
, where "x" is the average of two results being compared in volume percent.

The above estimates are valid for total aromatic content between 8% and 45% volume.

Although substantial data were generated in the course of this study, the primary objective—establishment of a precision statement for aromatics determined by ASTM D6730—was not achieved. The principal limitations were insufficient laboratory participation and the absence of a formal process for data quality verification. Future efforts to develop a precision statement for aromatics by ASTM D6730 could be strengthened by the following modifications to the study protocol and scope:

1. **Enhanced method instructions and operational detail.**
   The high variability observed in the reported results, which precluded calculation of a reliable precision statement, suggests inadequate standardization in the implementation of the method. More detailed and prescriptive instructions (e.g., instrument conditions, calibration procedures, integration parameters, and data processing protocols) would promote greater methodological consistency across laboratories and thereby reduce interlaboratory variability.
2. **Reduced scope to improve participation.**
   In the present study, precision for three configurations—FID-He, FID-H_2, and FID-MS—was evaluated simultaneously. Restricting the study to one or two configurations would reduce the analytical burden on participating laboratories and may increase participation. Each analysis requires approximately 3–4 hours per run, and completion of 20 analyses occupies a laboratory for at least five days, which likely discouraged participation under the current design.
3. **Clear communication of required effort and preparation.**
   When soliciting participation, expectations regarding the level of preparation (e.g., instrument qualification, method familiarization, preliminary calibration and performance checks) and the total analytical workload should be clearly defined. Up-front communication of these requirements is expected to reduce participant attrition during the course of the study.

4. **Systematic collection and use of operational data, and explicit treatment of noncompliance.**
   In addition to reporting analytical results, laboratories should record and submit key operational parameters (e.g., carrier gas flow rates, oven programs, detector settings, maintenance events) to support interpretation of precision and identify sources of variability. Data sets that exhibit method noncompliance should be explicitly identified and excluded according to predefined criteria, in conjunction with standard statistical outlier detection procedures.

APPENDIX A – RAW DATA, AROMATICS

Lab	GC Method	Sample Letter	Sample from Excel	Sample Code	Sample for Analysis	Carbon #	Aromatics (wt%)	Aromatics (vol%)
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C6	0.864	0.729
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C6	0.919	0.773
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C6	0.926	0.786
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C6	0.928	0.787
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C6	0.897	0.753
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C6	0.899	0.754
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C6	0.944	0.796
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C6	0.932	0.786
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C6	0.915	0.771
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C6	0.919	0.773
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C6	0.900	0.755
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C6	0.900	0.755
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C6	0.151	0.131
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C6	0.150	0.130
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C6	0.152	0.133
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C6	0.151	0.132
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C6	0.150	0.130
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C6	0.148	0.128
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C6	0.157	0.136
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C6	0.158	0.137
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C6	0.148	0.128
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C6	0.155	0.134
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C6	0.140	0.121
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C6	0.140	0.121
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C6	1.149	0.957
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C6	1.153	0.961
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C6	1.189	0.998
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C6	1.167	0.980
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C6	1.159	0.962
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C6	1.155	0.959
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C6	1.191	0.996
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C6	1.195	0.999
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C6	1.147	0.957
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C6	1.356	1.407
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C6	1.140	0.950
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C6	1.150	0.957
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C6	0.728	0.606
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C6	0.731	0.609
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C6	0.723	0.605
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C6	0.724	0.607
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C6	0.731	0.607
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C6	0.728	0.605
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C6	0.751	0.626
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C6	0.751	0.626
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C6	0.708	0.590
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C6	0.724	0.605
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C6	0.710	0.591
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C6	0.720	0.598
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C6	0.797	0.672
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C6	0.799	0.676
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C6	0.796	0.677
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C6	0.796	0.676
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C6	0.796	0.668
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C6	0.797	0.669
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C6	0.817	0.690
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C6	0.819	0.691
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C6	0.777	0.654
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C6	0.794	0.670

Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C6	0.770	0.647
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C6	0.770	0.647
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C6	0.322	0.266
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C6	0.328	0.270
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C6	0.308	0.255
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C6	0.309	0.256
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C6	0.325	0.265
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C6	0.325	0.265
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C6	0.322	0.264
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C6	0.317	0.260
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C6	0.307	0.251
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C6	0.309	0.252
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C6	0.320	0.261
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C6	0.330	0.269
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C6	0.357	0.304
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C6	0.357	0.305
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C6	0.338	0.291
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C6	0.343	0.295
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C6	0.352	0.300
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C6	0.354	0.302
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C6	0.358	0.307
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C6	0.360	0.308
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C6	0.341	0.292
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C6	0.346	0.296
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C6	0.350	0.299
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C6	0.360	0.308
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C6	0.420	0.348
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C6	0.425	0.353
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C6	0.423	0.352
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C6	0.426	0.355
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C6	0.422	0.346
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C6	0.421	0.346
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C6	0.471	0.389
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C6	0.434	0.358
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C6	0.421	0.348
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C6	0.422	0.348
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C6	0.400	0.329
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C6	0.410	0.336
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C6	1.129	0.987
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C6	1.130	0.989
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C6	1.138	0.999
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C6	1.144	1.005
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C6	1.118	0.976
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C6	1.124	0.979
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C6	1.141	0.997
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C6	1.143	0.999
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C6	1.144	1.002
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C6	1.137	0.995
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C6	1.090	0.955
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C6	1.100	0.963
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C6	0.965	0.809
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C6	0.965	0.810
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C6	0.983	0.827
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C6	0.971	0.817
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C6	0.964	0.806
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C6	0.960	0.803
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C6	0.976	0.817
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C6	0.976	0.818
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C6	0.973	0.815
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C6	0.979	0.822
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C6	0.940	0.791
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C6	0.950	0.797
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C7	5.555	4.749
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C7	5.758	4.909
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C7	5.926	5.109
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C7	5.920	5.099

Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C7	4.538	3.862
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C7	4.520	3.842
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C7	4.382	3.749
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C7	4.382	3.746
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C7	4.514	3.854
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C7	4.586	3.913
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C7	4.530	3.854
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C7	4.540	3.862
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C7	22.258	19.582
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C7	22.255	19.591
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C7	22.789	20.212
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C7	22.608	20.030
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C7	21.847	19.151
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C7	21.785	19.059
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C7	21.420	18.835
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C7	21.466	18.874
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C7	21.862	19.246
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C7	21.956	19.314
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C7	21.610	18.992
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C7	21.730	19.074
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C7	5.814	4.909
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C7	5.825	4.918
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C7	6.045	5.154
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C7	5.996	5.113
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C7	5.424	4.565
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C7	5.392	4.538
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C7	5.585	4.734
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C7	5.574	4.723
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C7	5.379	4.550
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C7	1.074	1.112
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C7	5.440	4.594
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C7	5.480	4.622
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C7	6.481	5.473
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C7	6.490	5.482
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C7	6.664	5.667
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C7	6.679	5.682
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C7	6.278	5.286
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C7	6.303	5.311
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C7	6.203	5.240
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C7	6.217	5.255
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C7	6.141	5.188
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C7	6.265	5.301
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C7	6.280	5.296
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C7	6.340	5.339
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C7	7.731	6.602
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C7	7.711	6.610
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C7	7.860	6.782
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C7	7.893	6.813
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C7	6.493	5.523
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C7	6.484	5.518
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C7	7.177	6.140
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C7	7.262	6.216
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C7	6.449	5.503
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C7	6.468	5.526
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C7	6.420	5.466
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C7	6.400	5.449
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C7	4.591	3.843
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C7	4.681	3.907
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C7	4.889	4.103
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C7	4.867	4.090
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C7	2.538	2.098
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C7	2.567	2.123
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C7	2.805	2.332
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C7	2.893	2.404
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C7	2.456	2.036
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C7	2.517	2.088

Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C7	2.540	2.104
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C7	2.540	2.100
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C7	7.939	6.868
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C7	7.965	6.890
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C7	8.228	7.195
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C7	8.236	7.202
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C7	7.941	6.856
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C7	7.983	6.889
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C7	7.665	6.655
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C7	7.667	6.656
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C7	8.007	6.955
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C7	7.999	6.939
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C7	8.000	6.934
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C7	8.030	6.956
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C7	7.932	6.673
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C7	8.064	6.792
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C7	8.114	6.858
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C7	8.159	6.899
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C7	4.425	3.676
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C7	4.452	3.700
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C7	5.283	4.426
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C7	5.428	4.547
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C7	4.348	3.650
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C7	4.445	3.714
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C7	4.420	3.685
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C7	4.420	3.676
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C7	19.952	17.675
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C7	19.988	17.731
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C7	20.005	17.831
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C7	20.097	17.916
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C7	20.250	17.911
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C7	20.142	17.795
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C7	20.074	17.792
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C7	20.098	17.815
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C7	20.353	18.072
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C7	20.456	18.148
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C7	19.960	17.735
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C7	20.050	17.789
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C7	12.947	11.004
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C7	12.968	11.026
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C7	13.033	11.137
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C7	12.948	11.064
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C7	13.026	11.043
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C7	13.059	11.069
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C7	12.912	10.961
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C7	12.968	11.017
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C7	13.057	11.093
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C7	13.299	11.311
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C7	12.990	11.075
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C7	12.910	10.984
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C8	6.105	5.215
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C8	6.270	5.341
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C8	6.365	5.443
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C8	6.339	5.416
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C8	5.185	4.426
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C8	5.130	4.374
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C8	6.299	5.385
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C8	6.271	5.357
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C8	6.391	5.452
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C8	6.544	5.581
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C8	6.520	5.540
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C8	6.530	5.548
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C8	9.374	8.240
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C8	9.373	8.244
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C8	9.416	8.282
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C8	9.331	8.198

Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C8	9.637	8.439
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C8	7.437	6.527
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C8	9.273	8.147
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C8	9.241	8.119
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C8	9.700	8.524
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C8	9.451	8.308
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C8	9.690	8.505
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C8	9.530	8.354
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C8	7.806	6.585
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C8	7.785	6.567
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C8	7.861	6.647
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C8	7.847	6.637
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C8	6.192	5.227
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C8	6.145	5.186
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C8	7.641	6.471
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C8	7.621	6.452
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C8	7.773	6.569
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C8	0.497	0.500
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C8	8.200	6.907
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C8	7.960	6.705
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C8	8.155	6.882
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C8	8.195	6.917
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C8	8.191	6.910
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C8	8.221	6.938
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C8	6.701	5.658
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C8	6.747	5.701
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C8	8.040	6.786
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C8	8.095	6.837
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C8	8.105	6.842
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C8	8.546	7.226
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C8	8.370	7.049
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C8	8.430	7.090
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C8	9.078	7.746
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C8	9.064	7.764
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C8	9.140	7.824
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C8	9.159	7.842
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C8	7.432	6.341
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C8	7.404	6.319
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C8	8.982	7.679
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C8	9.021	7.716
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C8	9.121	7.778
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C8	9.220	7.873
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C8	9.180	7.805
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C8	9.280	7.892
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C8	2.889	2.416
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C8	2.944	2.456
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C8	3.303	2.749
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C8	3.320	2.766
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C8	2.806	2.328
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C8	2.838	2.356
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C8	3.196	2.656
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C8	3.194	2.653
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C8	3.468	2.875
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C8	3.456	2.865
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C8	3.630	3.003
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C8	3.490	2.882
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C8	11.488	9.929
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C8	11.525	9.961
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C8	11.639	10.093
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C8	11.689	10.137
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C8	8.995	7.790
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C8	9.058	7.842
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C8	11.449	9.932
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C8	11.470	9.949
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C8	11.588	10.056
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C8	11.717	10.156

Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C8	11.910	10.310
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C8	11.780	10.191
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C8	5.065	4.257
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C8	6.039	5.081
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C8	6.029	5.053
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C8	6.086	5.103
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C8	4.759	3.967
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C8	4.738	3.951
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C8	5.981	5.005
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C8	6.006	5.026
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C8	5.991	5.025
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C8	6.133	5.120
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C8	6.230	5.187
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C8	6.180	5.133
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C8	20.588	18.226
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C8	20.610	18.270
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C8	20.358	17.997
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C8	20.475	18.103
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C8	16.333	14.497
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C8	16.155	14.323
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C8	20.309	17.987
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C8	20.329	18.006
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C8	20.716	18.383
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C8	20.817	18.456
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C8	20.990	18.627
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C8	20.870	18.494
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C8	14.176	12.042
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C8	14.206	12.071
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C8	13.977	11.845
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C8	13.958	11.829
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C8	10.982	9.344
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C8	10.998	9.357
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C8	13.776	11.688
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C8	13.854	11.762
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C8	13.987	11.876
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C8	14.311	12.164
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C8	14.470	12.321
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C8	14.240	12.100
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C9	5.695	4.843
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C9	4.976	4.215
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C9	5.195	4.416
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C9	5.147	4.370
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C9	5.325	4.481
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C9	5.588	4.703
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C9	4.643	3.925
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C9	4.573	3.863
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C9	5.602	4.734
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C9	5.659	4.782
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C9	5.500	4.659
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C9	5.520	4.676
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C9	6.175	5.391
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C9	6.165	5.386
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C9	5.915	5.182
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C9	5.874	5.141
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C9	6.037	5.239
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C9	6.054	5.244
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C9	5.287	4.604
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C9	5.244	4.567
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C9	6.469	5.647
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C9	6.462	5.638
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C9	6.530	5.715
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C9	6.440	5.629
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C9	5.923	4.971
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C9	5.937	4.982
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C9	6.344	5.337
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C9	6.361	5.352

Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C9	6.383	5.314
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C9	6.307	5.251
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C9	5.418	4.547
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C9	5.382	4.514
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C9	6.799	5.696
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C9	0.097	0.102
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C9	6.990	5.877
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C9	6.820	5.728
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C9	6.038	5.074
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C9	6.065	5.098
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C9	5.806	4.875
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C9	5.843	4.909
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C9	5.858	4.884
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C9	5.906	4.929
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C9	4.993	4.180
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C9	4.966	4.160
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C9	6.313	5.290
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C9	6.503	5.457
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C9	6.290	5.281
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C9	6.170	5.174
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C9	6.609	5.610
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C9	6.650	5.667
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C9	7.009	5.975
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C9	6.968	5.941
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C9	7.021	5.919
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C9	7.475	6.308
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C9	5.932	5.035
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C9	5.968	5.068
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C9	7.255	6.143
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C9	7.476	6.337
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C9	7.390	6.265
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C9	7.370	6.249
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C9	3.763	3.125
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C9	3.874	3.208
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C9	2.604	2.157
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C9	2.565	2.130
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C9	2.659	2.183
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C9	3.070	2.515
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C9	2.938	2.406
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C9	2.748	2.250
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C9	2.644	2.174
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C9	2.608	2.147
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C9	2.950	2.433
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C9	2.900	2.388
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C9	8.598	7.386
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C9	8.644	7.426
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C9	8.952	7.739
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C9	8.985	7.767
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C9	9.086	7.773
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C9	9.128	7.809
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C9	7.651	6.590
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C9	7.662	6.599
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C9	9.923	8.553
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C9	9.902	8.522
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C9	10.100	8.717
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C9	10.040	8.660
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C9	4.706	3.929
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C9	5.277	4.414
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C9	4.219	3.523
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C9	4.257	3.555
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C9	4.271	3.512
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C9	4.326	3.559
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C9	4.170	3.457
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C9	4.195	3.478
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C9	4.462	3.716
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C9	4.621	3.829

Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C9	4.630	3.844
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C9	4.500	3.726
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C9	6.408	5.653
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C9	7.924	6.991
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C9	7.270	6.410
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C9	7.312	6.448
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C9	7.694	6.753
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C9	7.572	6.637
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C9	6.194	5.457
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C9	6.189	5.452
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C9	7.803	6.880
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C9	7.415	6.538
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C9	8.050	7.122
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C9	7.990	7.059
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C9	4.821	4.071
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C9	4.838	4.087
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C9	5.050	4.269
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C9	5.053	4.272
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C9	5.252	4.420
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C9	5.267	4.433
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C9	4.221	3.563
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C9	4.243	3.584
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C9	5.471	4.616
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C9	5.537	4.678
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C9	5.650	4.796
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C9	5.520	4.676
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C10	4.674	3.909
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C10	4.451	3.708
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C10	3.879	3.295
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C10	3.783	3.211
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C10	3.572	2.978
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C10	3.310	2.758
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C10	4.585	3.851
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C10	4.582	3.846
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C10	4.042	3.399
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C10	3.982	3.332
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C10	4.030	3.407
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C10	4.120	3.483
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C10	3.441	2.989
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C10	3.292	2.852
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C10	4.101	3.592
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C10	4.012	3.510
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C10	2.617	2.259
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C10	2.795	2.404
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C10	4.537	3.943
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C10	4.436	3.854
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C10	3.634	3.157
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C10	3.661	3.179
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C10	3.480	3.040
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C10	3.400	2.966
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C10	4.719	3.888
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C10	4.754	3.912
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C10	4.277	3.577
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C10	4.351	3.641
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C10	3.220	2.647
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C10	3.526	2.892
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C10	5.129	4.266
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C10	5.123	4.258
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C10	4.231	3.509
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C10	0.106	0.107
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C10	4.440	3.726
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C10	4.350	3.646
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C10	3.152	2.605
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C10	3.181	2.630
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C10	2.874	2.412
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C10	2.896	2.432

Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C10	2.395	1.988
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C10	2.467	2.045
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C10	3.693	3.080
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C10	3.720	3.104
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C10	2.807	2.340
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C10	2.982	2.479
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C10	2.930	2.455
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C10	2.780	2.327
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C10	3.209	2.701
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C10	3.205	2.713
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C10	3.598	3.057
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C10	3.578	3.041
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C10	2.544	2.125
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C10	2.541	2.120
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C10	4.266	3.601
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C10	4.292	3.625
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C10	3.207	2.692
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C10	3.345	2.803
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C10	3.060	2.589
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C10	3.010	2.547
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C10	2.093	1.710
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C10	1.626	1.330
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C10	1.756	1.465
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C10	1.822	1.519
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C10	1.756	1.460
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C10	1.937	1.591
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C10	1.820	1.500
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C10	1.842	1.517
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C10	1.657	1.362
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C10	1.623	1.334
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C10	1.730	1.424
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C10	1.730	1.422
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C10	5.449	4.633
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C10	5.480	4.659
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C10	5.750	4.969
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C10	5.832	5.041
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C10	3.987	3.399
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C10	4.155	3.530
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C10	6.923	5.935
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C10	6.892	5.908
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C10	5.341	4.576
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C10	5.284	4.522
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C10	5.060	4.358
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C10	5.100	4.390
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C10	2.509	2.054
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C10	2.986	2.463
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C10	3.058	2.548
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C10	3.148	2.624
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C10	2.186	1.781
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C10	2.212	1.803
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C10	3.228	2.665
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C10	3.134	2.586
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C10	2.781	2.299
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C10	2.767	2.276
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C10	2.620	2.171
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C10	2.530	2.091
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C10	1.248	1.101
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C10	1.127	0.982
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C10	1.641	1.447
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C10	1.649	1.454
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C10	0.722	0.626
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C10	0.711	0.616
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C10	2.577	2.267
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C10	2.592	2.281
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C10	1.192	1.043
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C10	1.149	0.999

Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C10	1.090	0.963
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C10	0.910	0.802
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C10	0.807	0.672
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C10	0.864	0.719
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C10	1.203	1.017
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C10	1.209	1.023
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C10	0.691	0.580
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C10	0.543	0.455
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C10	1.900	1.602
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C10	1.909	1.610
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C10	0.967	0.810
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C10	0.917	0.767
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C10	0.810	0.686
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C10	0.780	0.660
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C11	0.830	0.661
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C11	0.858	0.681
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C11	2.016	1.639
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C11	2.067	1.681
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C11	1.565	1.255
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C11	1.361	1.083
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C11	2.229	1.797
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C11	2.140	1.724
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C11	1.583	1.267
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C11	1.621	1.298
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C11	1.980	1.671
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C11	1.840	1.553
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C11	0.571	0.471
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C11	1.113	0.942
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C11	0.869	0.724
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C11	0.782	0.650
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C11	0.853	0.705
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C11	0.859	0.710
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C11	1.121	0.941
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C11	1.078	0.905
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C11	0.804	0.662
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C11	0.709	0.587
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C11	0.970	0.846
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C11	0.850	0.740
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C11	0.917	0.708
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C11	0.912	0.704
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C11	2.008	1.588
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C11	1.833	1.462
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C11	1.614	1.252
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C11	1.633	1.268
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C11	2.256	1.783
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C11	2.263	1.788
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C11	1.755	1.369
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C11	0.021	0.021
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C11	1.910	1.600
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C11	1.980	1.657
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C11	0.318	0.255
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C11	0.309	0.247
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C11	0.701	0.565
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C11	0.710	0.573
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C11	0.571	0.463
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C11	0.635	0.509
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C11	0.831	0.670
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C11	0.810	0.653
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C11	0.579	0.460
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C11	0.554	0.444
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C11	0.770	0.644
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C11	0.680	0.568
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C11	0.593	0.471
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C11	0.563	0.447
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C11	0.914	0.734
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C11	0.855	0.687

Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C11	0.839	0.667
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C11	0.836	0.662
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C11	0.966	0.778
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C11	0.940	0.757
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C11	0.622	0.486
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C11	0.595	0.466
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C11	0.790	0.667
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C11	0.790	0.667
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C11	0.322	0.260
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C11	0.285	0.230
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C11	0.345	0.276
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C11	0.310	0.248
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C11	0.325	0.265
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C11	0.219	0.177
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C11	0.544	0.430
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C11	0.534	0.423
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C11	0.132	0.109
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C11	0.346	0.277
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C11	0.460	0.378
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C11	0.380	0.312
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C11	0.763	0.620
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C11	0.771	0.627
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C11	1.359	1.114
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C11	1.344	1.102
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C11	1.581	1.292
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C11	1.463	1.192
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C11	1.775	1.465
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C11	1.804	1.488
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C11	1.375	1.121
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C11	1.271	1.030
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C11	1.720	1.479
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C11	1.870	1.607
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C11	0.477	0.374
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C11	0.464	0.364
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C11	0.803	0.630
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C11	0.835	0.657
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C11	0.795	0.615
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C11	0.797	0.618
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C11	1.160	0.915
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C11	1.096	0.863
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C11	0.793	0.619
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C11	0.836	0.648
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C11	0.990	0.819
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C11	0.840	0.693
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C11	0.272	0.229
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C11	0.270	0.226
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C11	0.177	0.148
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C11	0.172	0.144
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C11	0.271	0.228
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C11	0.268	0.223
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C11	0.238	0.199
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C11	0.250	0.209
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C11	0.135	0.109
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C11	0.169	0.137
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C11	0.190	0.167
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C11	0.160	0.141
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C11	0.237	0.194
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C11	0.173	0.141
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C11	0.121	0.096
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C11	0.123	0.099
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C11	0.070	0.057
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C11	0.171	0.138
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C11	0.158	0.127
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C11	0.148	0.119
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C11	0.108	0.085
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C11	0.094	0.074

Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C11	0.090	0.076
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C11	0.080	0.068
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C12	0.673	0.561
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C12	0.648	0.538
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C12	0.286	0.232
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C12	0.264	0.214
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C12	0.718	0.596
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C12	0.493	0.409
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C12	0.941	0.753
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C12	0.859	0.689
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C12	0.864	0.704
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C12	0.778	0.633
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C12	0.480	0.405
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C12	0.560	0.473
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C12	0.415	0.356
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C12	0.299	0.257
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C12	0.116	0.095
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C12	0.113	0.092
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C12	0.249	0.212
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C12	0.234	0.200
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C12	0.325	0.268
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C12	0.329	0.272
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C12	0.432	0.363
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C12	0.493	0.408
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C12	0.140	0.122
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C12	0.250	0.218
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C12	0.610	0.502
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C12	0.609	0.501
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C12	0.297	0.234
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C12	0.510	0.403
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C12	0.393	0.324
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C12	0.419	0.345
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C12	0.879	0.696
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C12	0.886	0.702
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C12	0.898	0.720
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C12	0.010	0.010
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C12	0.270	0.226
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C12	0.510	0.427
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C12	0.269	0.221
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C12	0.224	0.185
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C12	0.077	0.061
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C12	0.080	0.063
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C12	0.108	0.090
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C12	0.113	0.093
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C12	0.253	0.202
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C12	0.256	0.204
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C12	0.329	0.269
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C12	0.379	0.306
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C12	0.100	0.084
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C12	0.050	0.042
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C12	0.349	0.291
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C12	0.364	0.304
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C12	0.203	0.157
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C12	0.179	0.137
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C12	0.124	0.102
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C12	0.124	0.104
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C12	0.416	0.329
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C12	0.398	0.315
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C12	0.460	0.366
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C12	0.422	0.332
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C12	0.220	0.186
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C12	0.210	0.177
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C12	0.254	0.207
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C12	0.205	0.167
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C12	0.034	0.027
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C12	0.035	0.028

Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C12	0.169	0.137
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C12	0.173	0.138
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C12	0.252	0.201
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C12	0.193	0.155
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C12	0.189	0.152
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C12	0.198	0.159
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C12	0.110	0.090
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C12	0.120	0.098
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C12	0.582	0.490
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C12	0.595	0.501
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C12	0.188	0.154
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C12	0.192	0.158
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C12	0.538	0.454
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C12	0.374	0.316
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C12	0.579	0.472
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C12	0.572	0.466
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C12	0.783	0.652
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C12	0.631	0.524
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C12	0.440	0.378
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C12	0.430	0.369
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C12	0.280	0.230
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C12	0.267	0.219
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C12	0.149	0.113
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C12	0.149	0.114
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C12	0.282	0.229
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C12	0.274	0.223
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C12	0.432	0.340
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C12	0.391	0.306
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C12	0.374	0.293
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C12	0.512	0.403
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C12	0.280	0.232
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C12	0.310	0.256
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C12	0.117	0.101
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C12	0.093	0.080
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C12	0.017	0.015
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C12	0.015	0.013
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C12	0.000	0.000
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C12	0.000	0.000
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C12	0.106	0.087
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C12	0.098	0.080
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C12	0.097	0.079
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C12	0.121	0.100
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C12	0.060	0.053
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C12	0.030	0.026
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C12	0.030	0.025
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C12	0.024	0.020
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C12	0.008	0.006
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C12	0.006	0.005
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C12	0.000	0.000
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C12	0.000	0.000
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C12	0.063	0.049
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C12	0.064	0.050
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C12	0.019	0.016
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C12	0.037	0.029
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C12	0.000	0.000
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C12	0.020	0.017
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C13	0.000	0.000
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C13	0.000	0.000
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C13	0.000	0.000
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C13	0.000	0.000
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C13	0.000	0.000
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C13	0.000	0.000
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C13	0.083	0.064
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C13	0.064	0.048
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C13	0.000	0.000
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C13	0.000	0.000

Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C13	0.010	0.008
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C13	0.010	0.008
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C13	0.000	0.000
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C13	0.000	0.000
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C13	0.000	0.000
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C13	0.000	0.000
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C13	0.000	0.000
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C13	0.000	0.000
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C13	0.040	0.031
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C13	0.038	0.030
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C13	0.000	0.000
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C13	0.000	0.000
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C13	0.010	0.009
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C13	0.020	0.017
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C13	0.000	0.000
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C13	0.000	0.000
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C13	0.000	0.000
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C13	0.000	0.000
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C13	0.000	0.000
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C13	0.000	0.000
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C13	0.088	0.067
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C13	0.089	0.067
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C13	0.009	0.007
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C13	0.000	0.000
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C13	0.010	0.008
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C13	0.010	0.008
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C13	0.000	0.000
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C13	0.000	0.000
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C13	0.000	0.000
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C13	0.000	0.000
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C13	0.000	0.000
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C13	0.000	0.000
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C13	0.032	0.024
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C13	0.036	0.027
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C13	0.017	0.013
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C13	0.021	0.016
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C13	0.020	0.017
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C13	0.010	0.008
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C13	0.000	0.000
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C13	0.000	0.000
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C13	0.000	0.000
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C13	0.000	0.000
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C13	0.000	0.000
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C13	0.000	0.000
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C13	0.036	0.027
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C13	0.035	0.026
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C13	0.045	0.033
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C13	0.019	0.014
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C13	0.070	0.059
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C13	0.080	0.068
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C13	0.000	0.000
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C13	0.000	0.000
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C13	0.000	0.000
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C13	0.000	0.000
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C13	0.044	0.033
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C13	0.035	0.026
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C13	0.000	0.000
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C13	0.000	0.000
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C13	0.010	0.008
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C13	0.000	0.000
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C13	0.000	0.000
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C13	0.000	0.000
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C13	0.000	0.000
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C13	0.000	0.000

Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C13	0.000	0.000
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C13	0.000	0.000
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C13	0.067	0.051
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C13	0.065	0.050
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C13	0.005	0.004
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C13	0.036	0.027
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C13	0.020	0.017
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C13	0.010	0.009
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C13	0.000	0.000
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C13	0.000	0.000
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C13	0.000	0.000
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C13	0.000	0.000
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C13	0.000	0.000
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C13	0.000	0.000
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C13	0.050	0.037
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C13	0.047	0.035
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C13	0.034	0.025
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C13	0.000	0.000
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C13	0.020	0.017
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C13	0.020	0.016
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C13	0.000	0.000
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C13	0.000	0.000
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C13	0.000	0.000
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C13	0.000	0.000
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C13	0.000	0.000
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C13	0.000	0.000
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C13	0.018	0.013
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C13	0.014	0.010
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C13	0.000	0.000
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C13	0.000	0.000
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C13	0.010	0.009
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C13	0.020	0.018
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C13	0.000	0.000
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C13	0.000	0.000
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C13	0.000	0.000
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C13	0.000	0.000
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C13	0.000	0.000
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C13	0.000	0.000
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C13	0.010	0.007
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C13	0.009	0.006
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C13	0.000	0.000
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C13	0.000	0.000
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C13	0.000	0.000
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C13	0.010	0.008
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	C14	0.000	0.000
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	C14	0.000	0.000
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	C14	0.000	0.000
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	C14	0.000	0.000
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	C14	0.000	0.000
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	C14	0.000	0.000
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	C14	0.000	0.000
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	C14	0.000	0.000
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	C14	0.000	0.000
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	C14	0.000	0.000
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	C14	0.000	0.000
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	C14	0.000	0.000
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	C14	0.000	0.000
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	C14	0.000	0.000
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	C14	0.000	0.000
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	C14	0.000	0.000
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	C14	0.000	0.000
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	C14	0.000	0.000
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	C14	0.000	0.000
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	C14	0.000	0.000
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	C14	0.000	0.000
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	C14	0.000	0.000

Lab 6	FID-H2	C	Sample 3	14734	Sample 2	C14	0.000	0.000
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	C14	0.000	0.000
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	C14	0.000	0.000
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	C14	0.000	0.000
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	C14	0.000	0.000
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	C14	0.000	0.000
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	C14	0.000	0.000
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	C14	0.000	0.000
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	C14	0.000	0.000
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	C14	0.000	0.000
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	C14	0.000	0.000
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	C14	0.000	0.000
Lab 6	FID-H2	B	Sample 2	14745	Sample 3	C14	0.000	0.000
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	C14	0.000	0.000
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	C14	0.000	0.000
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	C14	0.000	0.000
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	C14	0.000	0.000
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	C14	0.000	0.000
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	C14	0.000	0.000
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	C14	0.000	0.000
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	C14	0.000	0.000
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	C14	0.000	0.000
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	C14	0.000	0.000
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	C14	0.000	0.000
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	C14	0.010	0.008
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	C14	0.010	0.008
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	C14	0.000	0.000
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	C14	0.000	0.000
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	C14	0.000	0.000
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	C14	0.000	0.000
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	C14	0.000	0.000
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	C14	0.000	0.000
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	C14	0.000	0.000
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	C14	0.000	0.000
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	C14	0.013	0.010
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	C14	0.000	0.000
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	C14	0.200	0.169
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	C14	0.210	0.177
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	C14	0.000	0.000
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	C14	0.000	0.000
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	C14	0.000	0.000
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	C14	0.000	0.000
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	C14	0.000	0.000
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	C14	0.000	0.000
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	C14	0.000	0.000
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	C14	0.000	0.000
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	C14	0.000	0.000
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	C14	0.000	0.000
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	C14	0.000	0.000
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	C14	0.000	0.000
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	C14	0.000	0.000
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	C14	0.000	0.000
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	C14	0.000	0.000
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	C14	0.000	0.000
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	C14	0.000	0.000
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	C14	0.003	0.003
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	C14	0.000	0.000
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	C14	0.000	0.000
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	C14	0.000	0.000
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	C14	0.000	0.000
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	C14	0.000	0.000
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	C14	0.000	0.000

Lab 3	FID-H2	O	Sample 14	14865	Sample 8	C14	0.000	0.000
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	C14	0.000	0.000
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	C14	0.000	0.000
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	C14	0.000	0.000
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	C14	0.000	0.000
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	C14	0.000	0.000
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	C14	0.000	0.000
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	C14	0.000	0.000
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	C14	0.000	0.000
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	C14	0.000	0.000
Lab 3	FID-H2	A	Sample 1	14866	Sample 9	C14	0.000	0.000
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	C14	0.000	0.000
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	C14	0.000	0.000
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	C14	0.000	0.000
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	C14	0.000	0.000
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	C14	0.000	0.000
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	C14	0.010	0.009
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	C14	0.010	0.009
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	C14	0.000	0.000
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	C14	0.000	0.000
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	C14	0.000	0.000
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	C14	0.000	0.000
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	C14	0.000	0.000
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	C14	0.000	0.000
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	C14	0.000	0.000
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	C14	0.000	0.000
Lab 1	FID-H2	G	Sample 12	14732	Sample 1	TOTAL	24.395	20.667
Lab 1	FID-H2	P	Sample 13	14732	Sample 1	TOTAL	23.879	20.165
Lab 2	FID-H2	H	Sample 15	14732	Sample 1	TOTAL	24.592	20.921
Lab 2	FID-H2	Q	Sample 18	14732	Sample 1	TOTAL	24.448	20.778
Lab 3	FID-H2	T	Sample 3	14732	Sample 1	TOTAL	21.800	18.351
Lab 3	FID-H2	E	Sample 10	14732	Sample 1	TOTAL	21.301	17.923
Lab 4	FID-H2	S	Sample 19	14732	Sample 1	TOTAL	24.105	20.320
Lab 4	FID-H2	J	Sample 20	14732	Sample 1	TOTAL	23.803	20.060
Lab 5	FID-H2	E	Sample 5	14732	Sample 1	TOTAL	23.911	20.181
Lab 5	FID-H2	T	Sample 20	14732	Sample 1	TOTAL	24.089	20.312
Lab 6	FID-H2	J	Sample 10	14732	Sample 1	TOTAL	23.950	20.301
Lab 6	FID-H2	S	Sample 19	14732	Sample 1	TOTAL	24.020	20.360
Lab 1	FID-H2	S	Sample 19	14734	Sample 2	TOTAL	42.384	37.160
Lab 1	FID-H2	J	Sample 20	14734	Sample 2	TOTAL	42.648	37.402
Lab 2	FID-H2	A	Sample 1	14734	Sample 2	TOTAL	43.357	38.219
Lab 2	FID-H2	T	Sample 3	14734	Sample 2	TOTAL	42.871	37.753
Lab 3	FID-H2	M	Sample 6	14734	Sample 2	TOTAL	41.390	36.135
Lab 3	FID-H2	H	Sample 15	14734	Sample 2	TOTAL	39.312	34.272
Lab 4	FID-H2	C	Sample 5	14734	Sample 2	TOTAL	42.158	36.906
Lab 4	FID-H2	L	Sample 7	14734	Sample 2	TOTAL	41.990	36.758
Lab 5	FID-H2	H	Sample 8	14734	Sample 2	TOTAL	43.049	37.727
Lab 5	FID-H2	M	Sample 13	14734	Sample 2	TOTAL	42.887	37.568
Lab 6	FID-H2	C	Sample 3	14734	Sample 2	TOTAL	42.570	37.350
Lab 6	FID-H2	L	Sample 12	14734	Sample 2	TOTAL	42.360	37.119
Lab 1	FID-H2	R	Sample 16	14745	Sample 3	TOTAL	26.937	22.518
Lab 1	FID-H2	I	Sample 17	14745	Sample 3	TOTAL	26.975	22.544
Lab 2	FID-H2	S	Sample 19	14745	Sample 3	TOTAL	28.020	23.536
Lab 2	FID-H2	J	Sample 20	14745	Sample 3	TOTAL	28.065	23.589
Lab 3	FID-H2	L	Sample 7	14745	Sample 3	TOTAL	24.385	20.291
Lab 3	FID-H2	G	Sample 12	14745	Sample 3	TOTAL	24.577	20.439
Lab 4	FID-H2	K	Sample 2	14745	Sample 3	TOTAL	28.187	23.561
Lab 4	FID-H2	B	Sample 4	14745	Sample 3	TOTAL	28.134	23.505
Lab 5	FID-H2	G	Sample 7	14745	Sample 3	TOTAL	27.991	23.377
Lab 5	FID-H2	L	Sample 12	14745	Sample 3	TOTAL	3.161	3.259

Lab 6	FID-H2	B	Sample 2	14745	Sample 3	TOTAL	28.400	23.888
Lab 6	FID-H2	K	Sample 11	14745	Sample 3	TOTAL	28.260	23.750
Lab 1	FID-H2	N	Sample 9	14785	Sample 4	TOTAL	25.140	21.115
Lab 1	FID-H2	E	Sample 10	14785	Sample 4	TOTAL	25.194	21.167
Lab 2	FID-H2	F	Sample 11	14785	Sample 4	TOTAL	25.036	21.096
Lab 2	FID-H2	O	Sample 14	14785	Sample 4	TOTAL	25.152	21.204
Lab 3	FID-H2	C	Sample 5	14785	Sample 4	TOTAL	22.642	18.976
Lab 3	FID-H2	R	Sample 16	14785	Sample 4	TOTAL	22.899	19.193
Lab 4	FID-H2	H	Sample 15	14785	Sample 4	TOTAL	24.797	20.808
Lab 4	FID-H2	Q	Sample 18	14785	Sample 4	TOTAL	24.850	20.866
Lab 5	FID-H2	C	Sample 3	14785	Sample 4	TOTAL	24.999	20.992
Lab 5	FID-H2	R	Sample 18	14785	Sample 4	TOTAL	25.974	21.834
Lab 6	FID-H2	H	Sample 8	14785	Sample 4	TOTAL	25.480	21.425
Lab 6	FID-H2	Q	Sample 17	14785	Sample 4	TOTAL	25.190	21.154
Lab 1	FID-H2	F	Sample 11	14798	Sample 5	TOTAL	28.366	24.093
Lab 1	FID-H2	O	Sample 14	14798	Sample 5	TOTAL	28.356	24.180
Lab 2	FID-H2	G	Sample 12	14798	Sample 5	TOTAL	29.520	25.204
Lab 2	FID-H2	P	Sample 13	14798	Sample 5	TOTAL	29.428	25.137
Lab 3	FID-H2	D	Sample 8	14798	Sample 5	TOTAL	25.249	21.345
Lab 3	FID-H2	S	Sample 19	14798	Sample 5	TOTAL	25.661	21.700
Lab 4	FID-H2	R	Sample 16	14798	Sample 5	TOTAL	28.592	24.280
Lab 4	FID-H2	I	Sample 17	14798	Sample 5	TOTAL	28.736	24.413
Lab 5	FID-H2	D	Sample 4	14798	Sample 5	TOTAL	27.949	23.665
Lab 5	FID-H2	S	Sample 19	14798	Sample 5	TOTAL	28.339	24.021
Lab 6	FID-H2	I	Sample 9	14798	Sample 5	TOTAL	28.100	23.852
Lab 6	FID-H2	R	Sample 18	14798	Sample 5	TOTAL	28.120	23.873
Lab 1	FID-H2	A	Sample 1	14848	Sample 6	TOTAL	14.234	11.827
Lab 1	FID-H2	T	Sample 3	14848	Sample 6	TOTAL	13.942	11.568
Lab 2	FID-H2	K	Sample 2	14848	Sample 6	TOTAL	13.239	11.032
Lab 2	FID-H2	B	Sample 4	14848	Sample 6	TOTAL	13.227	11.036
Lab 3	FID-H2	N	Sample 9	14848	Sample 6	TOTAL	10.578	8.736
Lab 3	FID-H2	I	Sample 17	14848	Sample 6	TOTAL	11.129	9.165
Lab 4	FID-H2	M	Sample 6	14848	Sample 6	TOTAL	11.921	9.822
Lab 4	FID-H2	D	Sample 8	14848	Sample 6	TOTAL	11.756	9.688
Lab 5	FID-H2	I	Sample 9	14848	Sample 6	TOTAL	10.853	8.959
Lab 5	FID-H2	N	Sample 14	14848	Sample 6	TOTAL	11.057	9.122
Lab 6	FID-H2	D	Sample 4	14848	Sample 6	TOTAL	11.750	9.701
Lab 6	FID-H2	M	Sample 13	14848	Sample 6	TOTAL	11.490	9.470
Lab 1	FID-H2	H	Sample 15	14858	Sample 7	TOTAL	35.175	30.230
Lab 1	FID-H2	Q	Sample 18	14858	Sample 7	TOTAL	35.336	30.368
Lab 2	FID-H2	R	Sample 16	14858	Sample 7	TOTAL	36.453	31.555
Lab 2	FID-H2	I	Sample 17	14858	Sample 7	TOTAL	36.622	31.702
Lab 3	FID-H2	K	Sample 2	14858	Sample 7	TOTAL	32.480	27.864
Lab 3	FID-H2	F	Sample 11	14858	Sample 7	TOTAL	32.515	27.880
Lab 4	FID-H2	A	Sample 1	14858	Sample 7	TOTAL	36.467	31.407
Lab 4	FID-H2	T	Sample 3	14858	Sample 7	TOTAL	36.492	31.423
Lab 5	FID-H2	F	Sample 6	14858	Sample 7	TOTAL	37.363	32.209
Lab 5	FID-H2	K	Sample 11	14858	Sample 7	TOTAL	37.189	32.019
Lab 6	FID-H2	A	Sample 1	14858	Sample 7	TOTAL	37.600	32.492
Lab 6	FID-H2	T	Sample 20	14858	Sample 7	TOTAL	37.620	32.490
Lab 1	FID-H2	K	Sample 2	14865	Sample 8	TOTAL	21.389	17.865
Lab 1	FID-H2	B	Sample 4	14865	Sample 8	TOTAL	23.521	19.685
Lab 2	FID-H2	C	Sample 5	14865	Sample 8	TOTAL	22.795	19.077
Lab 2	FID-H2	L	Sample 7	14865	Sample 8	TOTAL	23.059	19.307
Lab 3	FID-H2	O	Sample 14	14865	Sample 8	TOTAL	17.140	14.126
Lab 3	FID-H2	J	Sample 20	14865	Sample 8	TOTAL	17.220	14.200
Lab 4	FID-H2	N	Sample 9	14865	Sample 8	TOTAL	20.776	17.235
Lab 4	FID-H2	E	Sample 10	14865	Sample 8	TOTAL	20.732	17.200
Lab 5	FID-H2	J	Sample 10	14865	Sample 8	TOTAL	19.204	15.975
Lab 5	FID-H2	O	Sample 15	14865	Sample 8	TOTAL	19.736	16.338
Lab 6	FID-H2	E	Sample 5	14865	Sample 8	TOTAL	19.590	16.283
Lab 6	FID-H2	N	Sample 14	14865	Sample 8	TOTAL	19.210	15.928
Lab 1	FID-H2	C	Sample 5	14866	Sample 9	TOTAL	49.714	43.971
Lab 1	FID-H2	L	Sample 7	14866	Sample 9	TOTAL	51.141	45.269
Lab 2	FID-H2	M	Sample 6	14866	Sample 9	TOTAL	50.605	44.846
Lab 2	FID-H2	D	Sample 8	14866	Sample 9	TOTAL	50.864	45.081

Lab 3	FID-H2	A	Sample 1	14866	Sample 9	TOTAL	46.388	40.991
Lab 3	FID-H2	P	Sample 13	14866	Sample 9	TOTAL	45.972	40.573
Lab 4	FID-H2	F	Sample 11	14866	Sample 9	TOTAL	50.656	44.800
Lab 4	FID-H2	O	Sample 14	14866	Sample 9	TOTAL	50.713	44.853
Lab 5	FID-H2	A	Sample 1	14866	Sample 9	TOTAL	51.440	45.568
Lab 5	FID-H2	P	Sample 16	14866	Sample 9	TOTAL	51.264	45.373
Lab 6	FID-H2	F	Sample 6	14866	Sample 9	TOTAL	51.450	45.640
Lab 6	FID-H2	O	Sample 15	14866	Sample 9	TOTAL	51.140	45.301
Lab 1	FID-H2	M	Sample 6	14869	Sample 10	TOTAL	33.982	28.817
Lab 1	FID-H2	D	Sample 8	14869	Sample 10	TOTAL	34.039	28.873
Lab 2	FID-H2	N	Sample 9	14869	Sample 10	TOTAL	34.373	29.199
Lab 2	FID-H2	E	Sample 10	14869	Sample 10	TOTAL	34.269	29.110
Lab 3	FID-H2	B	Sample 4	14869	Sample 10	TOTAL	30.985	26.250
Lab 3	FID-H2	Q	Sample 18	14869	Sample 10	TOTAL	30.998	26.255
Lab 4	FID-H2	G	Sample 12	14869	Sample 10	TOTAL	34.016	28.814
Lab 4	FID-H2	P	Sample 13	14869	Sample 10	TOTAL	34.171	28.966
Lab 5	FID-H2	B	Sample 2	14869	Sample 10	TOTAL	34.582	29.311
Lab 5	FID-H2	Q	Sample 17	14869	Sample 10	TOTAL	35.174	29.845
Lab 6	FID-H2	G	Sample 7	14869	Sample 10	TOTAL	34.950	29.745
Lab 6	FID-H2	P	Sample 16	14869	Sample 10	TOTAL	34.510	29.310
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C6	0.910	0.760
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C6	0.900	0.760
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C6	0.917	0.778
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C6	0.909	0.771
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C6	0.897	0.756
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C6	0.914	0.769
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C6	0.899	0.756
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C6	0.900	0.757
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C6	0.906	0.767
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C6	0.902	0.766
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C6	0.150	0.130
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C6	0.150	0.130
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C6	0.153	0.134
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C6	0.151	0.132
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C6	0.149	0.129
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C6	0.145	0.121
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C6	0.149	0.129
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C6	0.149	0.129
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C6	0.149	0.129
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C6	0.149	0.129
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C6	1.170	0.980
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C6	1.170	0.970
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C6	1.166	0.982
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C6	1.184	0.997
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C6	1.165	0.972
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C6	1.154	0.965
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C6	1.151	0.960
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C6	1.146	0.957
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C6	1.164	0.977
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C6	1.154	0.971
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C6	0.740	0.610
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C6	0.730	0.610
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C6	0.753	0.632
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C6	0.756	0.635
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C6	0.735	0.612
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C6	0.725	0.605
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C6	0.719	0.599
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C6	0.721	0.601
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C6	0.734	0.615
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C6	0.735	0.616
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C6	0.800	0.670
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C6	0.790	0.670
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C6	0.931	0.789
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C6	0.823	0.698
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C6	0.794	0.668
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C6	0.798	0.672

Lab 4	FID-He	N	Sample 9	14798	Sample 5	C6	0.786	0.661
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C6	0.785	0.661
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C6	0.801	0.678
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C6	0.797	0.675
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C6	0.330	0.270
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C6	0.330	0.270
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C6	0.318	0.262
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C6	0.313	0.258
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C6	0.361	0.295
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C6	0.351	0.287
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C6	0.320	0.261
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C6	0.329	0.269
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C6	0.326	0.269
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C6	0.326	0.269
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C6	0.360	0.310
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C6	0.360	0.310
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C6	0.350	0.302
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C6	0.351	0.303
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C6		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C6	0.345	0.295
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C6	0.340	0.291
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C6	0.342	0.293
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C6	0.354	0.305
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C6	0.354	0.306
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C6	0.420	0.350
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C6	0.420	0.350
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C6	0.432	0.357
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C6	0.439	0.363
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C6	0.418	0.344
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C6	0.427	0.351
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C6	0.413	0.340
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C6	0.422	0.346
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C6	0.422	0.348
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C6	0.422	0.348
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C6	1.120	0.980
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C6	1.120	0.980
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C6	1.140	0.999
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C6	1.134	0.996
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C6	1.121	0.981
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C6	1.131	0.989
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C6	1.121	0.980
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C6	1.127	0.984
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C6	1.130	0.991
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C6	1.129	0.991
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C6	0.960	0.800
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C6	0.960	0.800
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C6	0.971	0.818
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C6	0.972	0.819
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C6	0.960	0.805
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C6	0.966	0.810
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C6	0.959	0.803
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C6	0.957	0.802
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C6	0.969	0.815
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C6	0.970	0.816
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C7	4.540	3.860
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C7	4.540	3.870
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C7	4.606	3.967
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C7	4.604	3.967
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C7	4.697	4.012
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C7	4.656	3.970
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C7	4.655	3.971
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C7	4.707	4.016
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C7	4.542	3.908
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C7	4.568	3.936
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C7	21.560	18.890
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C7	21.540	18.860

Lab 2	FID-He	I	Sample 9	14734	Sample 2	C7	22.516	19.969
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C7	22.435	19.893
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C7	22.189	19.486
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C7	0.000	0.000
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C7	21.743	19.087
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C7	21.826	19.162
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C7	21.732	19.196
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C7	21.781	19.241
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C7	5.400	4.560
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C7	5.400	4.550
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C7	5.930	5.070
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C7	5.900	5.043
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C7	5.598	4.736
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C7	5.560	4.711
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C7	5.465	4.622
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C7	5.596	4.739
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C7	5.434	4.631
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C7	5.396	4.609
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C7	6.220	5.230
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C7	6.230	5.240
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C7	6.600	5.617
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C7	6.639	5.660
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C7	6.305	5.319
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C7	6.619	5.598
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C7	6.299	5.318
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C7	6.318	5.333
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C7	6.260	5.323
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C7	6.272	5.335
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C7	6.420	5.460
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C7	6.430	5.470
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C7	6.619	5.696
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C7	6.709	5.775
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C7	6.674	5.699
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C7	6.730	5.746
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C7	6.633	5.663
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C7	6.582	5.620
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C7	6.487	5.576
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C7	6.462	5.554
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C7	2.570	2.120
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C7	2.570	2.120
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C7	2.465	2.066
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C7	2.471	2.073
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C7	2.515	2.085
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C7	2.563	2.125
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C7	2.490	2.064
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C7	2.471	2.052
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C7	2.558	2.138
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C7	2.557	2.136
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C7	8.010	6.920
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C7	8.020	6.930
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C7	8.073	7.076
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C7	8.064	7.068
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C7		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C7	8.002	6.950
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C7	7.934	6.888
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C7	7.970	6.921
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C7	7.985	6.990
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C7	7.992	6.995
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C7	4.360	3.620
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C7	4.370	3.630
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C7	4.461	3.745
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C7	4.464	3.747
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C7	4.440	3.704
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C7	4.446	3.706
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C7	4.341	3.622
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C7	4.367	3.636

Lab 5	FID-He	B	Sample 2	14865	Sample 8	C7	4.455	3.737
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C7	4.453	3.735
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C7	19.840	17.540
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C7	19.920	17.620
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C7	20.149	17.935
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C7	20.037	17.869
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C7	20.070	17.802
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C7	20.107	17.830
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C7	20.002	17.725
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C7	19.906	17.620
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C7	20.119	17.927
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C7	20.157	17.968
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C7	12.880	10.910
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C7	12.920	10.950
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C7	13.065	11.189
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C7	13.063	11.181
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C7	13.071	11.119
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C7	13.013	11.056
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C7	12.921	10.972
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C7	12.931	10.983
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C7	13.098	11.190
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C7	13.078	11.168
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C8	6.370	5.430
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C8	6.390	5.440
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C8	6.459	5.518
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C8	6.464	5.525
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C8	6.381	5.446
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C8	6.255	5.329
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C8	6.278	5.351
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C8	6.294	5.367
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C8	6.375	5.441
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C8	6.451	5.515
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C8	9.330	8.190
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C8	9.300	8.160
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C8	9.661	8.502
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C8	9.564	8.409
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C8	9.365	8.217
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C8	9.249	7.829
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C8	9.191	8.064
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C8	9.203	8.074
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C8	9.408	8.242
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C8	9.445	8.276
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C8	7.770	6.560
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C8	7.770	6.550
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C8	8.008	6.790
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C8	7.967	6.754
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C8	7.805	6.597
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C8	7.794	6.597
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C8	7.752	6.551
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C8	7.801	6.601
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C8	7.878	6.659
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C8	7.838	6.639
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C8	8.140	6.860
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C8	8.180	6.890
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C8	8.471	7.151
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C8	8.490	7.182
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C8	8.107	6.834
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C8	8.284	7.000
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C8	8.164	6.889
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C8	8.178	6.898
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C8	8.282	6.987
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C8	8.299	7.003
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C8	9.090	7.740
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C8	9.130	7.770
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C8	9.329	7.965
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C8	9.328	7.965

Lab 3	FID-He	G	Sample 7	14798	Sample 5	C8	9.130	7.790
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C8	9.135	7.793
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C8	9.086	7.753
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C8	9.092	7.759
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C8	9.195	7.841
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C8	9.184	7.833
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C8	3.250	2.680
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C8	3.260	2.690
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C8	3.495	2.906
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C8	3.577	2.977
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C8	3.209	2.656
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C8	3.275	2.714
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C8	3.209	2.659
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C8	3.190	2.647
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C8	3.385	2.808
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C8	3.387	2.808
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C8	11.590	10.030
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C8	11.630	10.070
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C8	11.790	10.248
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C8	11.803	10.259
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C8		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C8	11.588	10.055
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C8	11.526	10.000
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C8	11.540	10.013
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C8	11.612	10.080
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C8	11.619	10.084
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C8	6.010	5.000
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C8	6.020	5.010
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C8	6.174	5.140
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C8	6.123	5.099
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C8	6.031	5.026
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C8	5.978	4.977
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C8	6.018	5.017
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C8	5.849	4.866
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C8	6.034	5.020
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C8	6.026	5.014
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C8	20.420	18.080
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C8	20.560	18.210
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C8	20.738	18.304
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C8	20.802	18.410
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C8	20.683	18.333
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C8	20.625	18.277
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C8	20.426	18.091
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C8	20.171	17.845
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C8	20.611	18.208
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C8	20.646	18.246
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C8	13.990	11.880
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C8	14.040	11.930
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C8	14.381	12.208
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C8	14.356	12.185
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C8	14.338	12.190
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C8	14.135	12.001
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C8	13.935	11.828
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C8	13.967	11.858
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C8	14.156	11.992
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C8	14.114	11.952
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C9	5.550	4.690
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C9	5.570	4.710
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C9	5.686	4.818
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C9	5.662	4.797
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C9	5.727	4.841
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C9	5.553	4.685
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C9	5.535	4.671
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C9	5.553	4.688
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C9	5.449	4.605
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C9	5.515	4.668

Lab 1	FID-He	I	Sample 9	14734	Sample 2	C9	6.470	5.640
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C9	6.450	5.620
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C9	6.594	5.764
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C9	6.492	5.671
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C9	6.545	5.697
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C9	6.484	5.444
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C9	6.369	5.541
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C9	6.381	5.552
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C9	6.332	5.507
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C9	6.354	5.527
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C9	6.770	5.680
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C9	6.770	5.670
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C9	6.944	5.847
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C9	6.894	5.804
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C9	6.915	5.795
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C9	6.968	5.848
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C9	6.877	5.761
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C9	6.909	5.794
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C9	6.747	5.654
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C9	6.722	5.645
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C9	6.140	5.140
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C9	6.180	5.170
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C9	6.488	5.441
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C9	6.459	5.430
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C9	6.221	5.203
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C9	6.426	5.388
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C9	6.314	5.284
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C9	6.260	5.239
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C9	6.097	5.104
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C9	6.114	5.120
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C9	7.410	6.270
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C9	7.450	6.310
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C9	7.697	6.528
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C9	7.558	6.413
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C9	7.608	6.444
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C9	7.575	6.415
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C9	7.529	6.375
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C9	7.555	6.398
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C9	7.357	6.229
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C9	7.354	6.228
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C9	2.750	2.250
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C9	2.760	2.260
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C9	4.069	3.351
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C9	3.991	3.293
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C9	2.825	2.318
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C9	2.883	2.365
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C9	2.789	2.289
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C9	2.754	2.263
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C9	2.659	2.183
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C9	2.674	2.193
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C9	9.830	8.460
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C9	9.870	8.490
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C9	10.038	8.674
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C9	10.014	8.654
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C9		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C9	10.118	8.715
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C9	10.018	8.624
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C9	10.025	8.631
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C9	9.691	8.360
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C9	9.671	8.340
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C9	4.660	3.850
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C9	4.670	3.860
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C9	4.582	3.788
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C9	5.026	4.154
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C9	4.656	3.849
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C9	4.563	3.769

Lab 4	FID-He	A	Sample 1	14865	Sample 8	C9	4.620	3.821
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C9	4.379	3.614
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C9	4.481	3.699
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C9	4.496	3.712
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C9	7.950	7.000
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C9	8.020	7.060
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C9	7.905	6.944
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C9	8.032	7.075
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C9	8.079	7.116
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C9	8.033	7.074
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C9	7.879	6.932
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C9	7.768	6.827
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C9	7.897	6.944
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C9	7.922	6.969
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C9	5.510	4.650
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C9	5.540	4.680
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C9	5.602	4.732
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C9	5.588	4.723
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C9	5.706	4.822
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C9	5.583	4.711
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C9	5.460	4.605
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C9	5.452	4.599
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C9	5.492	4.631
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C9	5.460	4.603
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C10	3.690	3.090
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C10	3.710	3.110
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C10	4.041	3.353
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C10	4.074	3.374
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C10	3.074	2.573
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C10	2.924	2.443
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C10	3.212	2.688
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C10	3.230	2.704
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C10	3.766	3.124
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C10	3.817	3.173
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C10	3.530	3.060
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C10	3.520	3.050
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C10	3.867	3.346
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C10	3.765	3.252
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C10	2.916	2.519
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C10	2.974	2.478
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C10	3.237	2.796
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C10	3.243	2.801
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C10	3.470	2.994
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C10	3.466	2.991
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C10	4.050	3.360
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C10	4.050	3.350
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C10	4.522	3.718
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C10	4.500	3.697
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C10	3.225	2.663
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C10	3.280	2.713
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C10	3.534	2.919
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C10	3.595	2.974
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C10	4.118	3.382
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C10	4.112	3.384
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C10	2.660	2.210
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C10	2.690	2.230
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C10	3.015	2.493
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C10	2.935	2.430
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C10	2.117	1.755
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C10	2.201	1.830
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C10	2.396	1.990
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C10	2.341	1.944
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C10	2.620	2.166
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C10	2.637	2.181
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C10	3.260	2.740
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C10	3.300	2.770

Lab 2	FID-He	E	Sample 5	14798	Sample 5	C10	3.427	2.865
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C10	3.410	2.850
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C10	2.698	2.258
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C10	2.676	2.239
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C10	2.922	2.449
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C10	2.941	2.465
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C10	3.129	2.616
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C10	3.141	2.626
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C10	1.210	0.990
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C10	1.240	1.020
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C10	1.677	1.373
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C10	1.843	1.511
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C10	1.549	1.266
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C10	1.555	1.273
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C10	1.640	1.343
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C10	1.626	1.333
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C10	1.612	1.310
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C10	1.545	1.261
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C10	5.440	4.640
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C10	5.460	4.660
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C10	5.594	4.783
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C10	5.563	4.755
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C10		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C10	4.133	3.529
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C10	4.624	3.947
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C10	4.613	3.938
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C10	5.187	4.436
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C10	5.165	4.416
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C10	2.350	1.930
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C10	2.380	1.950
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C10	2.774	2.258
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C10	2.712	2.206
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C10	2.491	2.039
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C10	2.435	1.992
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C10	2.653	2.174
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C10	2.465	2.016
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C10	2.577	2.096
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C10	2.576	2.096
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C10	1.130	0.990
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C10	1.140	1.000
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C10	1.086	0.944
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C10	1.178	1.026
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C10	0.908	0.791
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C10	0.893	0.778
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C10	1.012	0.882
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C10	0.999	0.869
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C10	1.082	0.942
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C10	1.084	0.944
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C10	0.870	0.730
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C10	0.870	0.730
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C10	0.896	0.754
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C10	0.895	0.747
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C10	0.710	0.595
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C10	0.688	0.576
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C10	0.775	0.648
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C10	0.774	0.648
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C10	0.824	0.689
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C10	0.820	0.686
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C11	2.290	1.850
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C11	2.300	1.860
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C11	1.620	1.298
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C11	1.460	1.179
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C11	2.471	2.034
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C11	2.357	1.937
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C11	2.336	1.927
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C11	2.346	1.936

Lab 5	FID-He	G	Sample 7	14732	Sample 1	C11	2.544	2.080
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C11	2.572	2.108
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C11	0.970	0.810
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C11	0.960	0.810
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C11	0.922	0.765
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C11	0.762	0.643
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C11	1.143	0.966
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C11	1.237	1.011
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C11	1.097	0.927
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C11	1.105	0.935
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C11	1.322	1.123
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C11	1.311	1.114
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C11	2.230	1.770
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C11	2.230	1.770
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C11	1.543	1.210
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C11	1.604	1.258
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C11	2.454	1.974
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C11	2.556	2.060
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C11	2.371	1.912
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C11	2.446	1.977
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C11	2.519	2.018
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C11	2.549	2.046
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C11	0.700	0.570
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C11	0.710	0.570
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C11	0.431	0.352
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C11	0.502	0.405
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C11	1.002	0.822
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C11	1.028	0.845
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C11	0.942	0.775
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C11	0.933	0.768
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C11	0.947	0.776
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C11	0.954	0.782
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C11	0.870	0.700
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C11	0.870	0.700
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C11	0.555	0.451
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C11	0.725	0.572
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C11	1.125	0.912
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C11	1.096	0.888
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C11	1.012	0.823
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C11	1.016	0.826
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C11	1.033	0.843
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C11	1.050	0.857
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C11	0.550	0.440
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C11	0.580	0.470
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C11	0.356	0.284
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C11	0.402	0.320
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C11	0.516	0.417
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C11	0.430	0.347
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C11	0.657	0.534
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C11	0.651	0.530
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C11	0.825	0.666
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C11	0.833	0.671
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C11	1.540	1.280
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C11	1.550	1.280
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C11	1.368	1.123
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C11	1.411	1.157
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C11		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C11	2.011	1.685
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C11	1.916	1.600
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C11	1.906	1.592
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C11	2.195	1.843
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C11	2.169	1.821
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C11	1.010	0.800
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C11	0.990	0.780
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C11	0.797	0.619
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C11	0.783	0.613

Lab 3	FID-He	C	Sample 3	14865	Sample 8	C11	1.166	0.929
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C11	1.147	0.913
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C11	1.131	0.904
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C11	1.048	0.837
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C11	1.300	1.036
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C11	1.321	1.054
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C11	0.190	0.160
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C11	0.190	0.160
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C11	0.081	0.069
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C11	0.125	0.107
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C11	0.330	0.279
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C11	0.332	0.280
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C11	0.264	0.223
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C11	0.260	0.220
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C11	0.310	0.265
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C11	0.307	0.263
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C11	0.110	0.090
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C11	0.110	0.090
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C11	0.080	0.065
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C11	0.085	0.069
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C11	0.226	0.184
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C11	0.243	0.197
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C11	0.156	0.127
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C11	0.155	0.126
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C11	0.186	0.154
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C11	0.194	0.160
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C12	0.650	0.610
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C12	0.640	0.610
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C12	0.447	0.371
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C12	0.602	0.505
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C12	0.701	0.581
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C12	0.658	0.544
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C12	0.565	0.470
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C12	0.535	0.445
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C12	0.963	0.777
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C12	0.986	0.799
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C12	0.260	0.260
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C12	0.250	0.260
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C12	0.210	0.183
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C12	0.354	0.307
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C12	0.234	0.198
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C12	0.257	0.211
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C12	0.205	0.171
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C12	0.202	0.168
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C12	0.362	0.299
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C12	0.353	0.292
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C12	0.640	0.640
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C12	0.620	0.630
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C12	0.566	0.465
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C12	0.482	0.390
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C12	0.608	0.497
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C12	0.644	0.527
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C12	0.516	0.417
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C12	0.530	0.429
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C12	0.967	0.769
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C12	0.969	0.773
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C12	0.170	0.160
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C12	0.170	0.170
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C12	0.233	0.198
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C12	0.168	0.140
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C12	0.180	0.147
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C12	0.172	0.140
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C12	0.135	0.109
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C12	0.125	0.101
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C12	0.258	0.207
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C12	0.264	0.212

Lab 1	FID-He	E	Sample 5	14798	Sample 5	C12	0.240	0.340
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C12	0.250	0.350
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C12	0.390	0.325
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C12	0.237	0.187
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C12	0.240	0.195
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C12	0.241	0.195
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C12	0.285	0.222
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C12	0.284	0.221
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C12	0.323	0.253
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C12	0.323	0.253
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C12	0.140	0.110
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C12	0.140	0.110
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C12	0.142	0.118
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C12	0.149	0.123
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C12	0.145	0.116
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C12	0.115	0.093
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C12	0.096	0.076
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C12	0.091	0.072
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C12	0.331	0.262
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C12	0.336	0.264
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C12	0.400	0.400
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C12	0.400	0.400
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C12	0.366	0.315
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C12	0.335	0.287
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C12		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C12	0.470	0.395
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C12	0.341	0.287
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C12	0.343	0.289
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C12	0.606	0.502
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C12	0.606	0.501
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C12	0.300	0.330
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C12	0.300	0.330
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C12	0.320	0.257
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C12	0.270	0.213
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C12	0.273	0.218
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C12	0.267	0.215
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C12	0.237	0.183
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C12	0.217	0.167
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C12	0.403	0.312
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C12	0.424	0.329
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C12	0.050	0.080
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C12	0.050	0.090
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C12	0.051	0.044
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C12	0.098	0.084
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C12	0.059	0.049
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C12	0.058	0.049
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C12	0.072	0.058
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C12	0.069	0.055
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C12	0.087	0.071
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C12	0.083	0.067
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C12	0.020	0.030
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C12	0.020	0.030
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C12	0.045	0.036
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C12	0.043	0.036
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C12	0.034	0.027
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C12	0.028	0.022
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C12	0.031	0.024
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C12	0.039	0.030
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C12	0.038	0.030
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C12	0.042	0.033
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C13	0.030	0.020
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C13	0.030	0.020
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C13	0.000	0.000
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C13	0.000	0.000
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C13	0.000	0.000
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C13	0.000	0.000

Lab 4	FID-He	F	Sample 11	14732	Sample 1	C13	0.000	0.000
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C13	0.000	0.000
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C13	0.056	0.045
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C13	0.058	0.046
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C13	0.010	0.010
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C13	0.010	0.010
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C13	0.000	0.000
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C13	0.000	0.000
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C13	0.000	0.000
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C13	0.000	0.000
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C13	0.000	0.000
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C13	0.000	0.000
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C13	0.049	0.039
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C13	0.046	0.037
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C13	0.040	0.030
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C13	0.040	0.030
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C13	0.000	0.000
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C13	0.000	0.000
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C13	0.000	0.000
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C13	0.000	0.000
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C13	0.000	0.000
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C13	0.000	0.000
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C13	0.058	0.045
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C13	0.069	0.054
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C13	0.000	0.000
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C13	0.000	0.000
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C13	0.000	0.000
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C13	0.000	0.000
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C13	0.000	0.000
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C13	0.000	0.000
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C13	0.000	0.000
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C13	0.000	0.000
Lab 5	FID-He	E	Sample 5	14785	Sample 4	C13	0.027	0.021
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C13	0.024	0.018
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C13	0.040	0.030
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C13	0.040	0.030
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C13	0.000	0.000
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C13	0.000	0.000
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C13	0.000	0.000
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C13	0.000	0.000
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C13	0.000	0.000
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C13	0.000	0.000
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C13	0.074	0.056
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C13	0.070	0.053
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C13	0.000	0.000
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C13	0.000	0.000
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C13	0.000	0.000
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C13	0.000	0.000
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C13	0.000	0.000
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C13	0.000	0.000
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C13	0.037	0.028
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C13	0.038	0.030
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C13	0.020	0.010
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C13	0.010	0.010
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C13	0.000	0.000
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C13	0.000	0.000
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C13		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C13	0.000	0.000
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C13	0.000	0.000
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C13	0.000	0.000
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C13	0.042	0.033
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C13	0.042	0.033
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C13	0.020	0.010
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C13	0.020	0.010

Lab 2	FID-He	A	Sample 1	14865	Sample 8	C13	0.000	0.000
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C13	0.000	0.000
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C13	0.000	0.000
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C13	0.000	0.000
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C13	0.000	0.000
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C13	0.000	0.000
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C13	0.051	0.039
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C13	0.048	0.037
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C13	0.020	0.010
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C13	0.020	0.010
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C13	0.000	0.000
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C13	0.000	0.000
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C13	0.000	0.000
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C13	0.000	0.000
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C13	0.000	0.000
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C13	0.000	0.000
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C13	0.022	0.017
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C13	0.023	0.018
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C13	0.000	0.000
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C13	0.000	0.000
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C13	0.000	0.000
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C13	0.000	0.000
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C13	0.000	0.000
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C13	0.000	0.000
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C13	0.000	0.000
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C13	0.000	0.000
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C13	0.013	0.010
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C13	0.012	0.009
Lab 1	FID-He	F	Sample 6	14732	Sample 1	C14	0.000	0.000
Lab 1	FID-He	O	Sample 15	14732	Sample 1	C14	0.000	0.000
Lab 2	FID-He	F	Sample 6	14732	Sample 1	C14	0.012	0.009
Lab 2	FID-He	O	Sample 15	14732	Sample 1	C14	0.015	0.011
Lab 3	FID-He	H	Sample 8	14732	Sample 1	C14	0.000	0.000
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	C14	0.000	0.000
Lab 4	FID-He	F	Sample 11	14732	Sample 1	C14	0.000	0.000
Lab 4	FID-He	O	Sample 14	14732	Sample 1	C14	0.000	0.000
Lab 5	FID-He	G	Sample 7	14732	Sample 1	C14	0.005	0.003
Lab 5	FID-He	P	Sample 16	14732	Sample 1	C14	0.005	0.004
Lab 1	FID-He	I	Sample 9	14734	Sample 2	C14	0.000	0.000
Lab 1	FID-He	R	Sample 18	14734	Sample 2	C14	0.000	0.000
Lab 2	FID-He	I	Sample 9	14734	Sample 2	C14	0.008	0.006
Lab 2	FID-He	R	Sample 18	14734	Sample 2	C14	0.008	0.006
Lab 3	FID-He	A	Sample 1	14734	Sample 2	C14	0.000	0.000
Lab 3	FID-He	T	Sample 20	14734	Sample 2	C14	0.000	0.000
Lab 4	FID-He	R	Sample 16	14734	Sample 2	C14	0.000	0.000
Lab 4	FID-He	I	Sample 17	14734	Sample 2	C14	0.000	0.000
Lab 5	FID-He	J	Sample 10	14734	Sample 2	C14	0.012	0.010
Lab 5	FID-He	S	Sample 19	14734	Sample 2	C14	0.011	0.008
Lab 1	FID-He	H	Sample 8	14745	Sample 3	C14	0.000	0.000
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	C14	0.000	0.000
Lab 2	FID-He	H	Sample 8	14745	Sample 3	C14	0.020	0.015
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	C14	0.021	0.016
Lab 3	FID-He	J	Sample 10	14745	Sample 3	C14	0.000	0.000
Lab 3	FID-He	S	Sample 19	14745	Sample 3	C14	0.000	0.000
Lab 4	FID-He	H	Sample 15	14745	Sample 3	C14	0.000	0.000
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	C14	0.000	0.000
Lab 5	FID-He	I	Sample 9	14745	Sample 3	C14	0.009	0.007
Lab 5	FID-He	R	Sample 18	14745	Sample 3	C14	0.009	0.007
Lab 1	FID-He	D	Sample 4	14785	Sample 4	C14	0.000	0.000
Lab 1	FID-He	M	Sample 13	14785	Sample 4	C14	0.000	0.000
Lab 2	FID-He	D	Sample 4	14785	Sample 4	C14	0.003	0.002
Lab 2	FID-He	M	Sample 13	14785	Sample 4	C14	0.003	0.003
Lab 3	FID-He	F	Sample 6	14785	Sample 4	C14	0.000	0.000
Lab 3	FID-He	O	Sample 15	14785	Sample 4	C14	0.000	0.000
Lab 4	FID-He	M	Sample 6	14785	Sample 4	C14	0.000	0.000
Lab 4	FID-He	D	Sample 8	14785	Sample 4	C14	0.000	0.000

Lab 5	FID-He	E	Sample 5	14785	Sample 4	C14	0.009	0.007
Lab 5	FID-He	N	Sample 14	14785	Sample 4	C14	0.009	0.007
Lab 1	FID-He	E	Sample 5	14798	Sample 5	C14	0.010	0.010
Lab 1	FID-He	N	Sample 14	14798	Sample 5	C14	0.010	0.010
Lab 2	FID-He	E	Sample 5	14798	Sample 5	C14	0.020	0.015
Lab 2	FID-He	N	Sample 14	14798	Sample 5	C14	0.022	0.016
Lab 3	FID-He	G	Sample 7	14798	Sample 5	C14	0.000	0.000
Lab 3	FID-He	P	Sample 16	14798	Sample 5	C14	0.000	0.000
Lab 4	FID-He	N	Sample 9	14798	Sample 5	C14	0.000	0.000
Lab 4	FID-He	E	Sample 10	14798	Sample 5	C14	0.000	0.000
Lab 5	FID-He	F	Sample 6	14798	Sample 5	C14	0.016	0.012
Lab 5	FID-He	O	Sample 15	14798	Sample 5	C14	0.018	0.014
Lab 1	FID-He	J	Sample 10	14848	Sample 6	C14	0.000	0.000
Lab 1	FID-He	S	Sample 19	14848	Sample 6	C14	0.000	0.000
Lab 2	FID-He	J	Sample 10	14848	Sample 6	C14	0.002	0.001
Lab 2	FID-He	S	Sample 19	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-He	B	Sample 2	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-He	K	Sample 11	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-He	S	Sample 19	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-He	J	Sample 20	14848	Sample 6	C14	0.000	0.000
Lab 5	FID-He	A	Sample 1	14848	Sample 6	C14	0.005	0.004
Lab 5	FID-He	T	Sample 20	14848	Sample 6	C14	0.005	0.003
Lab 1	FID-He	G	Sample 7	14858	Sample 7	C14	0.000	0.000
Lab 1	FID-He	P	Sample 16	14858	Sample 7	C14	0.000	0.000
Lab 2	FID-He	G	Sample 7	14858	Sample 7	C14	0.006	0.005
Lab 2	FID-He	P	Sample 16	14858	Sample 7	C14	0.006	0.005
Lab 3	FID-He	I	Sample 9	14858	Sample 7	C14		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	C14	0.000	0.000
Lab 4	FID-He	G	Sample 12	14858	Sample 7	C14	0.000	0.000
Lab 4	FID-He	P	Sample 13	14858	Sample 7	C14	0.000	0.000
Lab 5	FID-He	H	Sample 8	14858	Sample 7	C14	0.011	0.009
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	C14	0.013	0.010
Lab 1	FID-He	A	Sample 1	14865	Sample 8	C14	0.000	0.000
Lab 1	FID-He	T	Sample 20	14865	Sample 8	C14	0.000	0.000
Lab 2	FID-He	A	Sample 1	14865	Sample 8	C14	0.015	0.011
Lab 2	FID-He	T	Sample 20	14865	Sample 8	C14	0.015	0.011
Lab 3	FID-He	C	Sample 3	14865	Sample 8	C14	0.000	0.000
Lab 3	FID-He	L	Sample 12	14865	Sample 8	C14	0.000	0.000
Lab 4	FID-He	A	Sample 1	14865	Sample 8	C14	0.000	0.000
Lab 4	FID-He	T	Sample 3	14865	Sample 8	C14	0.000	0.000
Lab 5	FID-He	B	Sample 2	14865	Sample 8	C14	0.008	0.006
Lab 5	FID-He	K	Sample 11	14865	Sample 8	C14	0.008	0.006
Lab 1	FID-He	B	Sample 2	14866	Sample 9	C14	0.000	0.000
Lab 1	FID-He	K	Sample 11	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-He	B	Sample 2	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-He	K	Sample 11	14866	Sample 9	C14	0.006	0.005
Lab 3	FID-He	D	Sample 4	14866	Sample 9	C14	0.000	0.000
Lab 3	FID-He	M	Sample 13	14866	Sample 9	C14	0.000	0.000
Lab 4	FID-He	K	Sample 2	14866	Sample 9	C14	0.000	0.000
Lab 4	FID-He	B	Sample 4	14866	Sample 9	C14	0.000	0.000
Lab 5	FID-He	C	Sample 3	14866	Sample 9	C14	0.014	0.011
Lab 5	FID-He	L	Sample 12	14866	Sample 9	C14	0.014	0.011
Lab 1	FID-He	C	Sample 3	14869	Sample 10	C14	0.000	0.000
Lab 1	FID-He	L	Sample 12	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-He	C	Sample 3	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-He	L	Sample 12	14869	Sample 10	C14	0.004	0.003
Lab 3	FID-He	E	Sample 5	14869	Sample 10	C14	0.000	0.000
Lab 3	FID-He	N	Sample 14	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-He	C	Sample 5	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-He	L	Sample 7	14869	Sample 10	C14	0.000	0.000
Lab 5	FID-He	D	Sample 4	14869	Sample 10	C14	0.008	0.006
Lab 5	FID-He	M	Sample 13	14869	Sample 10	C14	0.008	0.006
Lab 1	FID-He	F	Sample 6	14732	Sample 1	TOTAL	24.030	20.310
Lab 1	FID-He	O	Sample 15	14732	Sample 1	TOTAL	24.080	20.380
Lab 2	FID-He	F	Sample 6	14732	Sample 1	TOTAL	23.788	20.112
Lab 2	FID-He	O	Sample 15	14732	Sample 1	TOTAL	23.790	20.129

Lab 3	FID-He	H	Sample 8	14732	Sample 1	TOTAL	23.948	20.243
Lab 3	FID-He	Q	Sample 17	14732	Sample 1	TOTAL	23.317	19.677
Lab 4	FID-He	F	Sample 11	14732	Sample 1	TOTAL	23.480	19.834
Lab 4	FID-He	O	Sample 14	14732	Sample 1	TOTAL	23.565	19.913
Lab 5	FID-He	G	Sample 7	14732	Sample 1	TOTAL	24.604	20.752
Lab 5	FID-He	P	Sample 16	14732	Sample 1	TOTAL	24.875	21.014
Lab 1	FID-He	I	Sample 9	14734	Sample 2	TOTAL	42.280	36.990
Lab 1	FID-He	R	Sample 18	14734	Sample 2	TOTAL	42.180	36.900
Lab 2	FID-He	I	Sample 9	14734	Sample 2	TOTAL	43.931	38.669
Lab 2	FID-He	R	Sample 18	14734	Sample 2	TOTAL	43.531	38.313
Lab 3	FID-He	A	Sample 1	14734	Sample 2	TOTAL	42.541	37.212
Lab 3	FID-He	T	Sample 20	14734	Sample 2	TOTAL	20.346	17.094
Lab 4	FID-He	R	Sample 16	14734	Sample 2	TOTAL	41.991	36.715
Lab 4	FID-He	I	Sample 17	14734	Sample 2	TOTAL	42.109	36.821
Lab 5	FID-He	J	Sample 10	14734	Sample 2	TOTAL	42.836	37.539
Lab 5	FID-He	S	Sample 19	14734	Sample 2	TOTAL	42.917	37.615
Lab 1	FID-He	H	Sample 8	14745	Sample 3	TOTAL	28.070	23.580
Lab 1	FID-He	Q	Sample 17	14745	Sample 3	TOTAL	28.050	23.520
Lab 2	FID-He	H	Sample 8	14745	Sample 3	TOTAL	28.699	24.097
Lab 2	FID-He	Q	Sample 17	14745	Sample 3	TOTAL	28.552	23.959
Lab 3	FID-He	J	Sample 10	14745	Sample 3	TOTAL	27.770	23.234
Lab 3	FID-He	S	Sample 19	14745	Sample 3	TOTAL	27.956	23.421
Lab 4	FID-He	H	Sample 15	14745	Sample 3	TOTAL	27.666	23.142
Lab 4	FID-He	Q	Sample 18	14745	Sample 3	TOTAL	28.023	23.471
Lab 5	FID-He	I	Sample 9	14745	Sample 3	TOTAL	28.893	24.143
Lab 5	FID-He	R	Sample 18	14745	Sample 3	TOTAL	28.818	24.127
Lab 1	FID-He	D	Sample 4	14785	Sample 4	TOTAL	24.770	20.780
Lab 1	FID-He	M	Sample 13	14785	Sample 4	TOTAL	24.890	20.880
Lab 2	FID-He	D	Sample 4	14785	Sample 4	TOTAL	25.994	21.886
Lab 2	FID-He	M	Sample 13	14785	Sample 4	TOTAL	25.952	21.885
Lab 3	FID-He	F	Sample 6	14785	Sample 4	TOTAL	24.667	20.692
Lab 3	FID-He	O	Sample 15	14785	Sample 4	TOTAL	25.455	21.406
Lab 4	FID-He	M	Sample 6	14785	Sample 4	TOTAL	24.969	20.964
Lab 4	FID-He	D	Sample 8	14785	Sample 4	TOTAL	24.876	20.884
Lab 5	FID-He	E	Sample 5	14785	Sample 4	TOTAL	25.235	21.206
Lab 5	FID-He	N	Sample 14	14785	Sample 4	TOTAL	25.308	21.274
Lab 1	FID-He	E	Sample 5	14798	Sample 5	TOTAL	28.140	23.960
Lab 1	FID-He	N	Sample 14	14798	Sample 5	TOTAL	28.270	24.080
Lab 2	FID-He	E	Sample 5	14798	Sample 5	TOTAL	28.968	24.634
Lab 2	FID-He	N	Sample 14	14798	Sample 5	TOTAL	28.812	24.476
Lab 3	FID-He	G	Sample 7	14798	Sample 5	TOTAL	28.269	23.966
Lab 3	FID-He	P	Sample 16	14798	Sample 5	TOTAL	28.251	23.948
Lab 4	FID-He	N	Sample 9	14798	Sample 5	TOTAL	28.253	23.946
Lab 4	FID-He	E	Sample 10	14798	Sample 5	TOTAL	28.255	23.950
Lab 5	FID-He	F	Sample 6	14798	Sample 5	TOTAL	28.415	24.104
Lab 5	FID-He	O	Sample 15	14798	Sample 5	TOTAL	28.398	24.091
Lab 1	FID-He	J	Sample 10	14848	Sample 6	TOTAL	10.800	8.860
Lab 1	FID-He	S	Sample 19	14848	Sample 6	TOTAL	10.880	8.940
Lab 2	FID-He	J	Sample 10	14848	Sample 6	TOTAL	12.524	10.361
Lab 2	FID-He	S	Sample 19	14848	Sample 6	TOTAL	12.746	10.555
Lab 3	FID-He	B	Sample 2	14848	Sample 6	TOTAL	11.120	9.153
Lab 3	FID-He	K	Sample 11	14848	Sample 6	TOTAL	11.172	9.204
Lab 4	FID-He	S	Sample 19	14848	Sample 6	TOTAL	11.201	9.226
Lab 4	FID-He	J	Sample 20	14848	Sample 6	TOTAL	11.112	9.166
Lab 5	FID-He	A	Sample 1	14848	Sample 6	TOTAL	11.740	9.668
Lab 5	FID-He	T	Sample 20	14848	Sample 6	TOTAL	11.703	9.636
Lab 1	FID-He	G	Sample 7	14858	Sample 7	TOTAL	37.190	32.050
Lab 1	FID-He	P	Sample 16	14858	Sample 7	TOTAL	37.300	32.150
Lab 2	FID-He	G	Sample 7	14858	Sample 7	TOTAL	37.585	32.526
Lab 2	FID-He	P	Sample 16	14858	Sample 7	TOTAL	37.547	32.488
Lab 3	FID-He	I	Sample 9	14858	Sample 7	TOTAL		
Lab 3	FID-He	R	Sample 18	14858	Sample 7	TOTAL	36.667	31.624
Lab 4	FID-He	G	Sample 12	14858	Sample 7	TOTAL	36.699	31.637
Lab 4	FID-He	P	Sample 13	14858	Sample 7	TOTAL	36.739	31.677
Lab 5	FID-He	H	Sample 8	14858	Sample 7	TOTAL	37.682	32.558
Lab 5	FID-He	Q	Sample 17	14858	Sample 7	TOTAL	37.631	32.506

Lab 1	FID-He	A	Sample 1	14865	Sample 8	TOTAL	19.130	15.890
Lab 1	FID-He	T	Sample 20	14865	Sample 8	TOTAL	19.170	15.920
Lab 2	FID-He	A	Sample 1	14865	Sample 8	TOTAL	19.555	16.175
Lab 2	FID-He	T	Sample 20	14865	Sample 8	TOTAL	19.832	16.406
Lab 3	FID-He	C	Sample 3	14865	Sample 8	TOTAL	19.475	16.109
Lab 3	FID-He	L	Sample 12	14865	Sample 8	TOTAL	19.263	15.923
Lab 4	FID-He	A	Sample 1	14865	Sample 8	TOTAL	19.413	16.061
Lab 4	FID-He	T	Sample 3	14865	Sample 8	TOTAL	18.747	15.482
Lab 5	FID-He	B	Sample 2	14865	Sample 8	TOTAL	19.731	16.293
Lab 5	FID-He	K	Sample 11	14865	Sample 8	TOTAL	19.773	16.330
Lab 1	FID-He	B	Sample 2	14866	Sample 9	TOTAL	50.720	44.840
Lab 1	FID-He	K	Sample 11	14866	Sample 9	TOTAL	51.020	45.130
Lab 2	FID-He	B	Sample 2	14866	Sample 9	TOTAL	51.150	45.239
Lab 2	FID-He	K	Sample 11	14866	Sample 9	TOTAL	51.412	45.572
Lab 3	FID-He	D	Sample 4	14866	Sample 9	TOTAL	51.250	45.351
Lab 3	FID-He	M	Sample 13	14866	Sample 9	TOTAL	51.179	45.277
Lab 4	FID-He	K	Sample 2	14866	Sample 9	TOTAL	50.776	44.891
Lab 4	FID-He	B	Sample 4	14866	Sample 9	TOTAL	50.300	44.420
Lab 5	FID-He	C	Sample 3	14866	Sample 9	TOTAL	51.272	45.376
Lab 5	FID-He	L	Sample 12	14866	Sample 9	TOTAL	51.365	45.476
Lab 1	FID-He	C	Sample 3	14869	Sample 10	TOTAL	34.340	29.090
Lab 1	FID-He	L	Sample 12	14869	Sample 10	TOTAL	34.460	29.210
Lab 2	FID-He	C	Sample 3	14869	Sample 10	TOTAL	35.040	29.802
Lab 2	FID-He	L	Sample 12	14869	Sample 10	TOTAL	35.006	29.763
Lab 3	FID-He	E	Sample 5	14869	Sample 10	TOTAL	35.045	29.742
Lab 3	FID-He	N	Sample 14	14869	Sample 10	TOTAL	34.656	29.373
Lab 4	FID-He	C	Sample 5	14869	Sample 10	TOTAL	34.237	29.007
Lab 4	FID-He	L	Sample 7	14869	Sample 10	TOTAL	34.275	29.046
Lab 5	FID-He	D	Sample 4	14869	Sample 10	TOTAL	34.784	29.517
Lab 5	FID-He	M	Sample 13	14869	Sample 10	TOTAL	34.697	29.432
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C6	0.876	0.741
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C6	0.870	0.736
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C6	0.987	0.823
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C6	0.979	0.818
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C6	0.912	0.772
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C6	0.909	0.770
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C6	0.920	0.780
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C6	0.920	0.780
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C6	0.873	0.742
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C6	0.870	0.738
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C6	0.850	0.731
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C6	0.881	0.748
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C6	0.919	0.772
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C6	0.144	0.125
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C6	0.140	0.122
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C6	0.150	0.130
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C6	0.149	0.129
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C6	0.145	0.126
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C6	0.149	0.129
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C6	0.160	0.130
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C6	0.150	0.130
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C6	0.139	0.121
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C6	0.140	0.122
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C6	0.131	0.115
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C6	0.154	0.133
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C6	0.139	0.120
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C6	0.143	0.124
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C6	1.121	0.939
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C6	1.080	0.908
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C6	1.264	1.047
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C6	1.267	1.046
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C6	1.169	0.982
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C6	1.176	0.989
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C6	1.190	0.990
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C6	1.190	0.990
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C6	1.138	0.956

Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C6	1.130	0.951
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C6	1.209	1.005
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C6	1.156	0.979
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C6	0.707	0.591
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C6	0.708	0.592
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C6	0.762	0.632
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C6	0.761	0.630
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C6	0.742	0.623
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C6	0.745	0.626
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C6	0.770	0.640
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C6	0.750	0.620
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C6	0.718	0.602
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C6	0.712	0.598
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C6	0.750	0.627
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C6	0.703	0.594
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C6	0.773	0.653
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C6	0.771	0.651
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C6	0.829	0.694
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C6	0.829	0.693
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C6	0.798	0.677
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C6	0.795	0.674
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C6	0.800	0.670
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C6	0.810	0.680
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C6	0.774	0.774
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C6	0.773	0.655
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C6	0.737	0.629
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C6	0.771	0.656
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C6	0.316	0.260
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C6	0.315	0.259
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C6	0.354	0.287
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C6	0.357	0.290
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C6	0.316	0.260
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C6	0.278	0.228
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C6	0.360	0.290
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C6	0.340	0.270
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C6	0.295	0.242
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C6	0.283	0.232
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C6	0.282	0.234
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C6	0.301	0.248
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C6	0.342	0.280
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C6	0.344	0.281
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C6	0.358	0.307
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C6	0.350	0.301
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C6	0.368	0.314
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C6	0.369	0.315
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C6	0.337	0.290
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C6	0.360	0.310
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C6	0.370	0.310
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C6	0.370	0.320
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C6	0.330	0.284
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C6	0.325	0.280
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C6	0.354	0.309
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C6	0.331	0.287
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C6	0.405	0.334
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C6	0.406	0.335
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C6	0.445	0.362
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C6	0.439	0.358
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C6	0.409	0.337
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C6	0.422	0.349
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C6	0.440	0.360
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C6	0.440	0.360
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C6	0.406	0.336
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C6	0.406	0.335
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C6	0.391	0.326
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C6	0.397	0.329
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C6	0.415	0.341

Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C6	0.418	0.343
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C6	1.066	0.935
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C6	1.086	0.955
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C6	1.157	1.011
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C6	1.154	1.007
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C6	1.116	0.980
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C6	1.112	0.975
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C6	1.130	0.990
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C6	1.130	0.990
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C6	1.093	0.960
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C6	1.092	0.960
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C6	1.258	1.103
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C6	1.043	0.922
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C6	1.119	0.980
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C6	0.927	0.780
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C6	0.928	0.782
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C6	0.988	0.824
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C6	0.993	0.828
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C6	0.963	0.811
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C6	0.948	0.798
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C6	0.970	0.810
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C6	0.960	0.810
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C6	0.931	0.784
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C6	0.934	0.787
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C6	1.017	0.862
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C6	1.032	0.870
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C6	0.950	0.795
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C7	4.339	3.726
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C7	4.384	3.769
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C7	4.840	4.094
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C7	4.837	4.098
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C7	4.745	4.080
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C7	4.778	4.110
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C7	4.650	3.950
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C7	4.650	3.960
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C7	4.427	3.820
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C7	4.377	3.773
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C7	6.491	5.663
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C7	3.805	3.280
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C7	4.664	3.977
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C7	21.317	18.793
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C7	20.952	18.578
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C7	23.054	20.212
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C7	22.890	20.048
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C7	22.293	19.707
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C7	22.272	19.701
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C7	22.700	19.860
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C7	22.060	19.330
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C7	21.554	19.050
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C7	21.515	19.016
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C7	22.321	19.930
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C7	8.191	7.181
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C7	22.341	19.628
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C7	22.474	19.736
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C7	5.271	4.480
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C7	5.079	4.337
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C7	5.995	5.032
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C7	5.913	4.952
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C7	5.502	4.696
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C7	5.539	4.731
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C7	5.570	4.690
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C7	5.570	4.690
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C7	5.234	4.466
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C7	5.216	4.457
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C7	3.800	3.206
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C7	4.682	4.023

Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C7	6.102	5.180
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C7	6.152	5.230
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C7	6.698	5.628
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C7	6.637	5.569
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C7	6.638	5.660
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C7	6.460	5.506
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C7	6.500	5.460
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C7	6.370	5.360
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C7	6.045	5.145
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C7	6.021	5.133
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C7	4.484	3.806
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C7	4.983	4.269
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C7	6.268	5.373
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C7	6.204	5.323
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C7	6.761	5.735
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C7	6.750	5.725
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C7	6.857	5.905
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C7	6.873	5.919
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C7	6.510	5.550
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C7	6.560	5.580
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C7	6.333	6.333
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C7	6.329	5.444
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C7	5.893	5.108
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C7	5.956	5.146
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C7	2.165	1.809
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C7	2.122	1.772
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C7	2.464	2.026
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C7	2.487	2.046
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C7	2.548	2.124
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C7	2.228	1.861
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C7	2.800	2.300
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C7	2.640	2.170
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C7	2.418	2.015
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C7	2.412	2.010
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C7	2.838	2.398
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C7	2.984	2.501
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C7	2.626	2.178
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C7	2.650	2.191
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C7	8.123	7.069
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C7	8.086	7.061
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C7	8.646	7.477
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C7	8.672	7.494
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C7	7.915	6.919
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C7	8.155	7.143
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C7	8.290	7.180
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C7	8.230	7.110
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C7	7.719	6.751
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C7	7.721	6.763
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C7	8.253	7.314
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C7	4.945	4.360
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C7	3.382	2.827
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C7	3.368	2.815
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C7	3.864	3.190
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C7	3.884	3.208
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C7	4.505	3.776
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C7	4.649	3.904
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C7	4.580	3.790
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C7	4.600	3.810
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C7	4.309	3.613
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C7	4.343	3.640
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C7	5.598	4.730
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C7	5.662	4.762
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C7	4.463	3.716
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C7	4.510	3.753
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C7	19.771	17.613
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C7	19.657	17.546

Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C7	20.771	18.392
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C7	20.869	18.470
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C7	19.960	17.809
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C7	19.999	17.818
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C7	20.340	18.000
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C7	20.050	17.720
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C7	19.961	17.800
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C7	19.981	17.840
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C7	9.334	8.308
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C7	16.042	14.401
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C7	20.452	18.175
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C7	12.710	10.848
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C7	12.857	10.993
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C7	13.511	11.424
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C7	13.408	11.327
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C7	13.012	11.131
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C7	12.933	11.058
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C7	13.110	11.110
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C7	12.950	10.960
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C7	12.884	11.012
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C7	12.973	11.108
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C7	15.382	13.227
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C7	9.978	8.544
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C7	13.040	11.088
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C8	6.409	5.460
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C8	6.519	5.559
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C8	6.873	5.811
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C8	6.910	5.851
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C8	6.451	5.501
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C8	6.416	5.473
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C8	6.520	5.550
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C8	6.510	5.540
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C8	6.137	5.252
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C8	6.080	5.198
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C8	7.689	6.653
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C8	7.090	6.063
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C8	6.431	5.441
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C8	9.387	8.208
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C8	9.268	8.151
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C8	9.996	8.759
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C8	9.833	8.607
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C8	9.393	8.235
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C8	9.333	8.188
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C8	9.750	8.540
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C8	9.600	8.420
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C8	9.263	8.119
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C8	9.109	7.985
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C8	10.764	9.529
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C8	12.835	11.159
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C8	9.516	8.293
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C8	9.404	8.191
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C8	7.756	6.539
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C8	7.482	6.337
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C8	8.708	7.304
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C8	8.482	7.098
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C8	7.996	6.761
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C8	8.063	6.824
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C8	8.090	6.820
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C8	8.080	6.820
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C8	7.608	6.438
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C8	7.585	6.429
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C8	7.657	6.407
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C8	8.806	7.504
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C8	8.178	6.887
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C8	8.287	6.989
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C8	8.915	7.487

Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C8	8.780	7.363
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C8	8.389	7.096
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C8	8.356	7.064
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C8	8.490	7.140
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C8	8.330	7.020
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C8	7.998	6.753
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C8	8.038	6.798
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C8	7.716	6.497
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C8	9.631	8.186
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C8	9.191	7.816
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C8	9.082	7.730
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C8	9.738	8.256
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C8	9.712	8.233
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C8	9.226	7.881
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C8	9.321	7.964
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C8	9.210	7.860
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C8	9.220	7.860
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C8	8.875	8.875
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C8	8.881	7.578
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C8	10.595	9.109
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C8	10.109	8.665
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C8	3.351	2.778
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C8	3.340	2.767
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C8	3.819	3.138
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C8	3.867	3.180
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C8	3.272	2.705
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C8	3.171	2.626
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C8	3.540	2.910
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C8	3.350	2.760
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C8	3.117	2.575
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C8	2.984	2.466
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C8	4.025	3.373
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C8	3.869	3.216
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C8	3.451	2.841
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C8	3.415	2.802
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C8	11.912	10.279
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C8	11.929	10.329
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C8	12.689	10.964
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C8	12.682	10.952
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C8	11.843	10.266
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C8	11.878	10.319
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C8	12.110	10.500
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C8	11.880	10.280
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C8	11.336	9.832
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C8	11.346	9.855
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C8	13.693	12.033
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C8	12.422	10.860
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C8	6.055	5.020
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C8	6.053	5.018
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C8	6.349	5.239
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C8	6.396	5.279
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C8	5.931	4.930
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C8	6.040	5.029
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C8	6.260	5.190
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C8	6.340	5.260
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C8	5.835	4.852
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C8	5.771	4.797
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C8	6.805	5.702
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C8	6.015	5.017
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C8	6.025	4.976
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C8	6.071	5.012
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C8	20.212	17.851
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C8	20.228	17.901
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C8	21.581	19.095
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C8	21.640	19.138
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C8	20.531	18.165

Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C8	18.710	16.514
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C8	21.000	18.620
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C8	20.540	18.180
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C8	20.504	18.133
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C8	20.668	18.301
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C8	26.489	23.379
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C8	23.967	21.335
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C8	20.636	18.186
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C8	13.841	11.714
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C8	14.099	11.953
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C8	14.708	12.429
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C8	14.505	12.245
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C8	14.148	12.002
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C8	14.052	11.914
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C8	14.300	12.140
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C8	13.990	11.870
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C8	13.960	11.833
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C8	14.171	12.034
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C8	11.653	9.937
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C8	14.705	12.475
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C8	13.866	11.693
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C9	5.069	4.274
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C9	5.126	4.330
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C9	5.913	4.954
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C9	5.961	5.001
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C9	5.422	4.580
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C9	5.659	4.783
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C9	5.560	4.690
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C9	5.540	4.680
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C9	5.498	4.662
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C9	5.461	4.624
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C9	5.843	5.006
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C9	5.339	4.522
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C9	4.237	3.548
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C9	5.875	5.099
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C9	5.856	5.111
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C9	6.738	5.859
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C9	6.582	5.717
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C9	6.448	5.614
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C9	6.411	5.587
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C9	5.970	5.200
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C9	6.380	5.560
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C9	6.540	5.693
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C9	6.309	5.493
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C9	6.290	5.532
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C9	7.678	6.630
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C9	4.809	4.163
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C9	4.784	4.139
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C9	6.132	5.129
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C9	6.117	5.132
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C9	7.457	6.204
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C9	7.213	5.987
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C9	6.822	5.728
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C9	6.937	5.830
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C9	6.480	5.440
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C9	6.980	5.850
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C9	6.841	5.741
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C9	6.873	5.774
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C9	5.399	4.480
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C9	6.661	5.628
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C9	5.628	4.702
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C9	5.648	4.729
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C9	6.637	5.533
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C9	6.491	5.403
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C9	6.412	5.384
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C9	6.255	5.250

Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C9	6.230	5.210
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C9	6.110	5.120
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C9	6.216	5.209
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C9	6.299	5.288
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C9	5.869	4.904
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C9	6.304	5.320
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C9	6.312	5.335
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C9	6.718	5.680
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C9	7.795	6.562
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C9	7.768	6.539
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C9	7.544	6.401
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C9	7.485	6.351
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C9	7.520	6.380
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C9	7.480	6.340
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C9	7.502	7.502
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C9	7.481	6.338
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C9	7.641	6.527
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C9	7.186	6.120
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C9	2.541	2.086
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C9	2.492	2.046
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C9	2.661	2.169
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C9	2.734	2.231
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C9	2.716	2.227
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C9	2.674	2.201
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C9	2.720	2.220
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C9	2.710	2.220
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C9	2.505	2.055
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C9	2.459	2.018
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C9	2.943	2.449
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C9	2.797	2.312
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C9	2.451	1.998
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C9	1.812	1.473
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C9	9.181	7.869
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C9	9.094	7.830
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C9	10.611	9.105
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C9	10.571	9.066
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C9	9.706	8.364
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C9	10.125	8.743
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C9	10.090	8.700
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C9	9.810	8.440
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C9	9.807	8.455
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C9	9.835	8.491
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C9	9.841	8.601
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C9	10.267	8.924
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C9	4.156	3.419
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C9	4.141	3.406
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C9	4.628	3.791
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C9	4.611	3.779
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C9	4.555	3.760
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C9	4.527	3.743
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C9	4.350	3.580
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C9	4.430	3.650
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C9	4.588	3.788
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C9	4.444	3.668
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C9	4.519	3.762
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C9	4.114	3.407
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C9	3.972	3.269
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C9	3.378	2.770
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C9	7.183	6.315
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C9	7.182	6.328
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C9	8.173	7.189
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C9	8.179	7.190
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C9	7.881	6.940
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C9	7.940	6.981
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C9	8.000	7.050
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C9	7.790	6.850

Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C9	8.166	7.186
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C9	8.251	7.269
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C9	8.585	7.545
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C9	7.858	6.966
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C9	7.233	6.354
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C9	4.943	4.166
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C9	5.123	4.324
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C9	5.522	4.641
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C9	5.058	4.254
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C9	5.535	4.674
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C9	5.444	4.595
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C9	5.490	4.640
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C9	5.370	4.530
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C9	5.694	4.804
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C9	5.781	4.887
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C9	5.817	4.941
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C9	6.222	5.263
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C9	3.932	3.304
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C10	3.260	2.699
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C10	3.472	2.881
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C10	3.106	2.561
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C10	3.344	2.769
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C10	3.838	3.187
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C10	3.907	3.244
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C10	3.690	3.070
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C10	3.670	3.060
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C10	4.337	3.616
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C10	4.058	3.375
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C10	6.303	5.364
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C10	5.709	4.808
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C10	3.976	3.309
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C10	3.020	2.602
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C10	3.137	2.715
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C10	3.048	2.608
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C10	2.980	2.548
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C10	3.322	2.879
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C10	3.359	2.911
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C10	3.400	2.930
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C10	3.540	3.060
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C10	3.794	3.289
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C10	3.547	3.062
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C10	6.154	5.409
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C10	7.298	6.296
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C10	3.872	3.351
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C10	4.054	3.506
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C10	3.669	3.009
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C10	3.796	3.125
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C10	3.697	3.005
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C10	3.556	2.885
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C10	4.118	3.392
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C10	4.092	3.375
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C10	4.160	3.410
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C10	4.100	3.380
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C10	4.329	3.577
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C10	4.455	3.674
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C10	4.888	4.029
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C10	6.403	5.372
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C10	2.282	1.882
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C10	2.139	1.769
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C10	2.561	2.102
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C10	2.558	2.113
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C10	2.617	2.170
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C10	2.397	1.997
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C10	2.560	2.110
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C10	2.660	2.190
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C10	2.662	2.202

Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C10	3.007	2.493
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C10	4.159	3.470
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C10	4.619	3.857
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C10	2.671	2.228
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C10	2.668	2.226
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C10	2.856	2.380
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C10	2.839	2.365
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C10	3.065	2.568
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C10	3.084	2.589
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C10	3.270	2.740
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C10	3.170	2.650
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C10	3.430	3.430
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C10	3.380	2.830
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C10	5.442	4.632
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C10	5.243	4.449
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C10	1.323	1.075
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C10	1.346	1.091
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C10	0.747	0.590
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C10	0.758	0.599
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C10	1.470	1.195
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C10	1.129	0.926
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C10	0.390	0.320
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C10	1.000	0.810
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C10	1.219	0.991
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C10	1.118	0.914
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C10	3.122	2.598
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C10	2.703	2.231
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C10	1.157	0.938
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C10	1.546	1.261
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C10	4.698	3.998
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C10	4.349	3.709
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C10	4.758	4.024
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C10	4.739	4.004
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C10	4.763	4.088
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C10	5.005	4.292
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C10	5.300	4.520
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C10	5.060	4.310
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C10	4.924	4.235
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C10	5.467	4.697
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C10	8.701	7.602
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C10	9.063	7.876
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C10	2.116	1.713
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C10	2.209	1.791
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C10	1.974	1.582
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C10	2.026	1.645
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C10	2.173	1.768
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C10	2.242	1.828
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C10	2.000	1.620
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C10	2.040	1.660
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C10	2.464	2.003
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C10	2.574	2.093
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C10	4.162	3.447
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C10	4.203	3.465
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C10	2.274	1.854
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C10	2.900	2.368
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C10	0.908	0.791
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C10	1.017	0.883
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C10	0.858	0.747
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C10	0.859	0.748
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C10	1.047	0.913
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C10	1.046	0.912
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C10	0.880	0.770
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C10	1.080	0.940
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C10	1.197	1.042
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C10	1.227	1.069
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C10	3.532	3.108

Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C10	3.193	2.836
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C10	0.911	0.793
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C10	0.678	0.566
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C10	0.749	0.626
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C10	0.484	0.405
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C10	0.858	0.712
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C10	0.785	0.659
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C10	0.781	0.656
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C10	0.640	0.540
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C10	0.770	0.650
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C10	0.852	0.713
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C10	0.975	0.817
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C10	2.482	2.112
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C10	2.632	2.231
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C10	1.520	1.277
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C11	1.758	1.429
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C11	1.629	1.323
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C11	1.156	0.914
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C11	1.385	1.099
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C11	1.865	1.516
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C11	1.723	1.393
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C11	1.560	1.250
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C11	1.690	1.360
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C11	2.053	1.652
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C11	1.947	1.565
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C11	2.385	1.959
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C11	1.863	1.512
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C11	1.313	1.057
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C11	0.974	0.827
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C11	1.113	0.946
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C11	0.592	0.494
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C11	0.479	0.395
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C11	1.050	0.890
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C11	1.035	0.882
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C11	0.250	0.200
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C11	0.710	0.600
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C11	0.925	0.772
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C11	0.808	0.676
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C11	1.114	0.955
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C11	1.327	1.115
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C11	0.705	0.593
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C11	0.641	0.540
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C11	1.808	1.444
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C11	2.031	1.630
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C11	1.622	1.244
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C11	0.979	0.763
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C11	2.112	1.685
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C11	2.026	1.619
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C11	1.780	1.390
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C11	1.940	1.520
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C11	1.951	1.538
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C11	2.274	1.809
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C11	1.541	1.213
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C11	2.226	1.782
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C11	0.643	0.526
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C11	0.642	0.524
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C11	0.751	0.543
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C11	0.708	0.511
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C11	0.718	0.591
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C11	0.731	0.601
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C11	0.210	0.170
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C11	0.420	0.330
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C11	0.685	0.549
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C11	0.681	0.548
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C11	0.632	0.517
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C11	0.712	0.586

Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C11	0.751	0.610
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C11	0.761	0.619
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C11	0.388	0.300
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C11	0.384	0.297
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C11	0.962	0.786
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C11	0.931	0.759
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C11	0.660	0.520
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C11	0.600	0.470
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C11	0.785	0.785
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C11	0.823	0.664
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C11	0.810	0.670
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C11	0.737	0.608
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C11	0.685	0.555
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C11	0.719	0.582
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C11	0.342	0.274
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C11	0.347	0.278
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C11	0.169	0.137
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C11	0.159	0.127
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C11	0.000	0.000
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C11	0.140	0.110
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C11	0.156	0.125
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C11	0.154	0.123
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C11	0.680	0.561
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C11	0.569	0.467
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C11	0.057	0.044
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C11	0.033	0.025
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C11	1.711	1.435
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C11	1.496	1.256
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C11	1.208	0.978
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C11	1.114	0.909
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C11	1.742	1.462
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C11	1.650	1.387
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C11	1.400	1.160
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C11	1.340	1.100
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C11	1.995	1.675
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C11	1.733	1.441
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C11	1.820	1.543
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C11	2.123	1.791
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C11	0.954	0.760
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C11	0.893	0.710
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C11	0.546	0.434
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C11	0.311	0.235
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C11	0.759	0.598
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C11	0.883	0.702
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C11	0.380	0.280
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C11	0.390	0.290
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C11	0.879	0.689
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C11	0.864	0.678
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C11	0.876	0.708
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C11	1.017	0.823
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C11	0.460	0.356
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C11	0.463	0.358
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C11	0.269	0.230
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C11	0.414	0.352
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C11	0.020	0.015
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C11	0.019	0.014
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C11	0.264	0.225
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C11	0.258	0.220
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C11	0.040	0.030
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C11	0.090	0.080
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C11	0.170	0.142
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C11	0.209	0.175
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C11	0.180	0.152
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C11	0.138	0.119
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C11	0.122	0.102
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C11	0.145	0.119

Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C11	0.184	0.151
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C11	0.000	0.000
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C11	0.000	0.000
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C11	0.134	0.111
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C11	0.152	0.126
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C11	0.000	0.000
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C11	0.020	0.020
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C11	0.245	0.202
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C11	0.129	0.105
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C11	0.074	0.061
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C11	0.069	0.057
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C11	0.038	0.030
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C12	0.664	0.533
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C12	0.756	0.614
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C12	0.667	0.542
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C12	0.650	0.521
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C12	0.895	0.736
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C12	0.957	0.785
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C12	0.260	0.230
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C12	0.210	0.190
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C12	1.196	0.980
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C12	1.169	0.958
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C12	1.759	1.483
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C12	1.677	1.394
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C12	0.402	0.342
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C12	0.348	0.289
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C12	0.652	0.535
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C12	0.196	0.168
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C12	0.189	0.161
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C12	0.232	0.199
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C12	0.290	0.248
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C12	0.000	0.000
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C12	0.110	0.100
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C12	0.402	0.337
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C12	0.384	0.321
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C12	0.514	0.441
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C12	0.647	0.547
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C12	0.205	0.176
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C12	0.188	0.161
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C12	0.995	0.788
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C12	1.166	0.922
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C12	0.447	0.362
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C12	1.005	0.820
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C12	0.836	0.686
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C12	0.820	0.674
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C12	0.230	0.190
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C12	0.160	0.130
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C12	1.383	1.122
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C12	1.169	0.942
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C12	0.914	0.744
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C12	1.551	1.279
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C12	0.177	0.141
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C12	0.233	0.188
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C12	0.000	0.000
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C12	0.000	0.000
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C12	0.280	0.232
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C12	0.234	0.193
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C12	0.000	0.000
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C12	0.060	0.050
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C12	0.462	0.376
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C12	0.326	0.263
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C12	0.333	0.276
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C12	0.365	0.304
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C12	0.244	0.193
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C12	0.343	0.272
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C12	0.057	0.045

Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C12	0.056	0.044
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C12	0.298	0.242
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C12	0.299	0.241
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C12	0.090	0.080
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C12	0.060	0.060
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C12	0.419	0.419
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C12	0.485	0.389
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C12	0.472	0.385
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C12	0.438	0.356
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C12	0.343	0.268
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C12	0.332	0.261
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C12	0.116	0.093
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C12	0.118	0.095
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C12	0.052	0.043
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C12	0.036	0.030
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C12	0.000	0.000
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C12	0.000	0.000
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C12	0.059	0.049
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C12	0.024	0.020
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C12	0.322	0.257
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C12	0.252	0.199
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C12	0.128	0.101
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C12	0.040	0.031
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C12	0.610	0.494
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C12	0.423	0.352
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C12	0.359	0.303
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C12	0.331	0.279
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C12	0.623	0.527
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C12	0.574	0.488
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C12	0.240	0.210
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C12	0.230	0.200
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C12	0.908	0.764
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C12	0.875	0.739
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C12	0.819	0.704
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C12	0.847	0.723
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C12	0.397	0.309
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C12	0.336	0.261
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C12	0.134	0.108
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C12	0.102	0.082
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C12	0.257	0.201
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C12	0.289	0.230
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C12	0.000	0.000
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C12	0.000	0.000
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C12	0.482	0.375
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C12	0.397	0.312
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C12	0.474	0.383
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C12	0.471	0.376
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C12	0.228	0.181
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C12	0.226	0.175
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C12	0.115	0.097
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C12	0.272	0.225
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C12	0.000	0.000
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C12	0.000	0.000
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C12	0.101	0.084
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C12	0.084	0.069
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C12	0.000	0.000
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C12	0.000	0.000
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C12	0.093	0.076
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C12	0.115	0.095
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C12	0.104	0.087
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C12	0.082	0.069
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C12	0.029	0.025
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C12	0.034	0.027
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C12	0.052	0.041
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C12	0.000	0.000
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C12	0.000	0.000

Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C12	0.037	0.030
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C12	0.039	0.032
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C12	0.000	0.000
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C12	0.000	0.000
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C12	0.087	0.069
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C12	0.058	0.046
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C12	0.042	0.034
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C12	0.098	0.076
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C12	0.008	0.007
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C13	0.033	0.026
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C13	0.026	0.021
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C13	0.000	0.000
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C13	0.000	0.000
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C13	0.013	0.011
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C13	0.034	0.027
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C13	0.000	0.000
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C13	0.000	0.000
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C13	0.076	0.061
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C13	0.077	0.061
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C13	0.031	0.025
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C13	0.023	0.019
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C13	0.001	0.001
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C13	0.027	0.021
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C13	0.188	0.150
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C13	0.000	0.000
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C13	0.000	0.000
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C13	0.009	0.007
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C13	0.015	0.012
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C13	0.000	0.000
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C13	0.000	0.000
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C13	0.046	0.036
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C13	0.015	0.011
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C13	0.014	0.011
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C13	0.010	0.008
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C13	0.002	0.001
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C13	0.000	0.000
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C13	0.065	0.051
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C13	0.169	0.133
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C13	0.000	0.000
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C13	0.000	0.000
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C13	0.031	0.024
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C13	0.039	0.030
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C13	0.000	0.000
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C13	0.000	0.000
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C13	0.079	0.062
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C13	0.096	0.075
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C13	0.041	0.031
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C13	0.036	0.029
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C13	0.012	0.009
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C13	0.020	0.016
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C13	0.000	0.000
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C13	0.000	0.000
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C13	0.014	0.011
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C13	0.009	0.006
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C13	0.000	0.000
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C13	0.000	0.000
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C13	0.043	0.032
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C13	0.042	0.032
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C13	0.003	0.002
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C13	0.000	0.000
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C13	0.032	0.024
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C13	0.053	0.041
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C13	0.000	0.000
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C13	0.000	0.000
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C13	0.031	0.024
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C13	0.031	0.023

Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C13	0.010	0.010
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C13	0.000	0.000
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C13	0.108	0.108
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C13	0.060	0.046
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C13	0.032	0.024
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C13	0.063	0.048
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C13	0.029	0.023
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C13	0.026	0.020
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C13	0.000	0.000
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C13	0.000	0.000
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C13	0.000	0.000
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C13	0.000	0.000
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C13	0.000	0.000
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C13	0.000	0.000
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C13	0.000	0.000
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C13	0.013	0.009
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C13	0.004	0.003
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C13	0.022	0.015
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C13	0.000	0.000
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C13	0.025	0.019
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C13	0.016	0.012
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C13	0.000	0.000
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C13	0.000	0.000
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C13	0.008	0.006
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C13	0.016	0.012
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C13	0.000	0.000
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C13	0.000	0.000
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C13	0.041	0.033
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C13	0.051	0.040
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C13	0.011	0.009
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C13	0.010	0.008
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C13	0.035	0.026
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C13	0.024	0.018
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C13	0.000	0.000
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C13	0.000	0.000
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C13	0.012	0.009
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C13	0.015	0.011
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C13	0.000	0.000
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C13	0.000	0.000
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C13	0.027	0.021
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C13	0.065	0.049
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C13	0.023	0.017
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C13	0.024	0.018
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C13	0.025	0.018
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C13	0.000	0.000
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C13	0.012	0.010
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C13	0.094	0.074
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C13	0.000	0.000
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C13	0.000	0.000
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C13	0.019	0.015
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C13	0.016	0.013
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C13	0.000	0.000
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C13	0.000	0.000
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C13	0.026	0.020
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C13	0.045	0.036
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C13	0.010	0.008
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C13	0.005	0.004
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C13	0.009	0.007
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C13	0.007	0.005
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C13	0.008	0.006
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C13	0.000	0.000
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C13	0.000	0.000
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C13	0.006	0.005
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C13	0.001	0.000
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C13	0.000	0.000

Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C13	0.000	0.000
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C13	0.026	0.019
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C13	0.028	0.021
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C13	0.000	0.000
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C13	0.000	0.000
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C13	0.000	0.000
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	C14	0.000	0.000
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	C14	0.000	0.000
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	C14	0.000	0.000
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	C14	0.000	0.000
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	C14	0.001	0.001
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	C14	0.025	0.020
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	C14	0.000	0.000
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	C14	0.000	0.000
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	C14	0.000	0.000
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	C14	0.010	0.008
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	C14	0.003	0.002
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	C14	0.008	0.006
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	C14	0.000	0.000
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	C14	0.002	0.002
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	C14	0.000	0.000
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	C14	0.000	0.000
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	C14	0.000	0.000
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	C14	0.021	0.017
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	C14	0.017	0.014
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	C14	0.000	0.000
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	C14	0.000	0.000
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	C14	0.008	0.006
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	C14	0.010	0.007
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	C14	0.002	0.002
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	C14	0.002	0.002
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	C14	0.000	0.000
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	C14	0.009	0.007
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	C14	0.003	0.002
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	C14	0.000	0.000
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	C14	0.000	0.000
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	C14	0.000	0.000
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	C14	0.053	0.040
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	C14	0.066	0.049
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	C14	0.000	0.000
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	C14	0.000	0.000
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	C14	0.010	0.008
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	C14	0.010	0.008
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	C14	0.003	0.003
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	C14	0.013	0.010
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	C14	0.000	0.000
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	C14	0.000	0.000
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	C14	0.000	0.000
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	C14	0.000	0.000
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	C14	0.004	0.003
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	C14	0.001	0.001
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	C14	0.000	0.000
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	C14	0.000	0.000
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	C14	0.011	0.008
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	C14	0.004	0.003
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	C14	0.012	0.009
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	C14	0.008	0.006
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	C14	0.000	0.000
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	C14	0.000	0.000
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	C14	0.000	0.000
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	C14	0.000	0.000
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	C14	0.051	0.041
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	C14	0.000	0.000
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	C14	0.010	0.010
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	C14	0.000	0.000
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	C14	0.017	0.017

Lab 5	FID-MS	P	Sample 16	14798	Sample 5	C14	0.000	0.000
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	C14	0.044	0.033
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	C14	0.012	0.009
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	C14	0.000	0.000
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	C14	0.000	0.000
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	C14	0.000	0.000
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	C14	0.000	0.000
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	C14	0.000	0.000
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	C14	0.000	0.000
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	C14	0.000	0.000
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	C14	0.000	0.000
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	C14	0.008	0.006
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	C14	0.000	0.000
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	C14	0.000	0.000
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	C14	0.016	0.011
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	C14	0.003	0.002
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	C14	0.000	0.000
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	C14	0.000	0.000
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	C14	0.000	0.000
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	C14	0.003	0.002
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	C14	0.004	0.003
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	C14	0.000	0.000
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	C14	0.000	0.000
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	C14	0.015	0.012
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	C14	0.023	0.018
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	C14	0.005	0.004
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	C14	0.014	0.011
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	C14	0.000	0.000
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	C14	0.000	0.000
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	C14	0.000	0.000
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	C14	0.000	0.000
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	C14	0.000	0.000
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	C14	0.001	0.001
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	C14	0.000	0.000
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	C14	0.000	0.000
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	C14	0.011	0.008
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	C14	0.011	0.008
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	C14	0.026	0.019
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	C14	0.017	0.012
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	C14	0.000	0.000
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	C14	0.000	0.000
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	C14	0.000	0.000
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	C14	0.000	0.000
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	C14	0.000	0.000
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	C14	0.007	0.006
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	C14	0.005	0.004
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	C14	0.000	0.000
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	C14	0.000	0.000
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	C14	0.019	0.015
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	C14	0.012	0.009
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	C14	0.015	0.012
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	C14	0.014	0.011
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	C14	0.003	0.002
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	C14	0.000	0.000
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	C14	0.000	0.000
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	C14	0.000	0.000
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	C14	0.006	0.005
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	C14	0.000	0.000
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	C14	0.000	0.000
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	C14	0.015	0.011
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	C14	0.008	0.006

Lab 6	FID-MS	G	Sample 12	14869	Sample 10	C14	0.007	0.005
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	C14	0.002	0.002
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	C14	0.000	0.000
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	TOTAL	22.407	18.889
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	TOTAL	22.782	19.234
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	TOTAL	23.541	19.700
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	TOTAL	24.065	20.158
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	TOTAL	24.142	20.384
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	TOTAL	24.408	20.605
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	TOTAL	23.160	19.520
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	TOTAL	23.190	19.570
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	TOTAL	24.598	20.785
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	TOTAL	24.048	20.300
Lab 6	FID-MS	S	Sample 19	14732	Sample 1	TOTAL	31.354	26.886
Lab 6	FID-MS	J	Sample 20	14732	Sample 1	TOTAL	26.395	22.352
Lab 7	FID-MS	S	Sample 9	14732	Sample 1	TOTAL	21.942	18.446
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	TOTAL	41.093	35.966
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	TOTAL	41.306	36.308
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	TOTAL	43.773	38.229
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	TOTAL	43.101	37.606
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	TOTAL	42.913	37.674
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	TOTAL	42.881	37.672
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	TOTAL	42.230	36.860
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	TOTAL	42.550	37.200
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	TOTAL	42.670	37.423
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	TOTAL	41.837	36.694
Lab 6	FID-MS	C	Sample 5	14734	Sample 2	TOTAL	47.304	41.924
Lab 6	FID-MS	L	Sample 7	14734	Sample 2	TOTAL	38.142	33.071
Lab 7	FID-MS	C	Sample 4	14734	Sample 2	TOTAL	41.588	36.326
Lab 7	FID-MS	L	Sample 6	14734	Sample 2	TOTAL	41.695	36.404
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	TOTAL	26.820	22.380
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	TOTAL	26.919	22.524
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	TOTAL	29.190	24.198
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	TOTAL	28.416	23.550
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	TOTAL	28.639	23.994
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	TOTAL	28.758	24.121
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	TOTAL	27.500	22.930
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	TOTAL	28.020	23.380
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	TOTAL	28.572	23.907
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	TOTAL	28.808	24.118
Lab 6	FID-MS	K	Sample 2	14745	Sample 3	TOTAL	25.452	21.118
Lab 6	FID-MS	B	Sample 4	14745	Sample 3	TOTAL	31.534	26.606
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	TOTAL	23.728	19.917
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	TOTAL	23.829	20.037
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	TOTAL	26.323	21.925
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	TOTAL	25.934	21.589
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	TOTAL	25.814	21.770
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	TOTAL	25.188	21.244
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	TOTAL	24.760	20.730
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	TOTAL	24.700	20.690
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	TOTAL	24.840	20.876
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	TOTAL	25.130	21.156
Lab 6	FID-MS	H	Sample 15	14785	Sample 4	TOTAL	23.958	20.108
Lab 6	FID-MS	Q	Sample 18	14785	Sample 4	TOTAL	27.325	23.122
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	TOTAL	26.243	22.233
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	TOTAL	26.601	22.542
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	TOTAL	28.423	23.972
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	TOTAL	28.337	23.896
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	TOTAL	28.832	24.525
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	TOTAL	28.819	24.520
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	TOTAL	28.080	23.820
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	TOTAL	27.900	23.640
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	TOTAL	28.243	28.243
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	TOTAL	28.212	23.943
Lab 6	FID-MS	R	Sample 16	14798	Sample 5	TOTAL	31.666	27.117
Lab 6	FID-MS	I	Sample 17	14798	Sample 5	TOTAL	30.515	26.057

Lab 1	FID-MS	D	Sample 4	14848	Sample 6	TOTAL	10.754	8.855
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	TOTAL	10.691	8.800
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	TOTAL	10.503	8.578
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	TOTAL	10.668	8.720
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	TOTAL	10.543	8.691
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	TOTAL	9.675	7.999
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	TOTAL	9.810	8.040
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	TOTAL	10.180	8.340
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	TOTAL	9.769	8.051
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	TOTAL	9.433	7.781
Lab 6	FID-MS	M	Sample 6	14848	Sample 6	TOTAL	14.233	11.885
Lab 6	FID-MS	D	Sample 8	14848	Sample 6	TOTAL	13.479	11.177
Lab 7	FID-MS	D	Sample 1	14848	Sample 6	TOTAL	10.234	8.395
Lab 7	FID-MS	M	Sample 5	14848	Sample 6	TOTAL	9.857	8.076
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	TOTAL	36.620	31.472
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	TOTAL	35.743	30.849
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	TOTAL	38.639	33.165
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	TOTAL	38.477	33.020
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	TOTAL	36.940	31.924
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	TOTAL	37.767	32.697
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	TOTAL	37.800	32.580
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	TOTAL	36.920	31.760
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	TOTAL	37.075	32.041
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	TOTAL	37.376	32.324
Lab 6	FID-MS	A	Sample 1	14858	Sample 7	TOTAL	43.497	38.119
Lab 6	FID-MS	T	Sample 3	14858	Sample 7	TOTAL	40.022	34.840
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	TOTAL	17.499	14.409
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	TOTAL	17.431	14.355
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	TOTAL	17.941	14.705
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	TOTAL	17.768	14.586
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	TOTAL	18.601	15.379
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	TOTAL	19.068	15.797
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	TOTAL	18.010	14.820
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	TOTAL	18.240	15.030
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	TOTAL	19.001	15.685
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	TOTAL	18.875	15.580
Lab 6	FID-MS	N	Sample 9	14865	Sample 8	TOTAL	22.874	19.094
Lab 6	FID-MS	E	Sample 10	14865	Sample 8	TOTAL	21.920	18.209
Lab 7	FID-MS	E	Sample 2	14865	Sample 8	TOTAL	17.862	14.711
Lab 7	FID-MS	N	Sample 7	14865	Sample 8	TOTAL	17.967	14.778
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	TOTAL	49.537	43.841
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	TOTAL	49.951	44.262
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	TOTAL	52.560	46.450
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	TOTAL	52.720	46.567
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	TOTAL	50.926	45.137
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	TOTAL	49.170	43.506
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	TOTAL	51.390	45.460
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	TOTAL	50.680	44.760
Lab 5	FID-MS	D	Sample 4	14866	Sample 9	TOTAL	51.230	45.375
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	TOTAL	51.601	45.755
Lab 6	FID-MS	F	Sample 11	14866	Sample 9	TOTAL	49.507	43.702
Lab 6	FID-MS	O	Sample 14	14866	Sample 9	TOTAL	52.342	46.663
Lab 7	FID-MS	F	Sample 3	14866	Sample 9	TOTAL	50.514	44.624
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	TOTAL	33.285	28.225
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	TOTAL	34.001	28.875
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	TOTAL	35.213	29.722
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	TOTAL	34.822	29.365
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	TOTAL	34.626	29.428
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	TOTAL	34.350	29.179
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	TOTAL	34.510	29.240
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	TOTAL	34.060	28.840
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	TOTAL	34.695	29.446
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	TOTAL	35.058	29.811
Lab 6	FID-MS	G	Sample 12	14869	Sample 10	TOTAL	36.474	31.179
Lab 6	FID-MS	P	Sample 13	14869	Sample 10	TOTAL	34.738	29.518
Lab 7	FID-MS	G	Sample 8	14869	Sample 10	TOTAL	33.353	28.194

APPENDIX B – RAW DATA, FUEL PMI

Lab Number	Method	Sample Letter	Sample_# (From Excel File)	Sample Actual	Sample Number (For Analysis)	PMI
Lab 1	FID-MS	J	Sample 10	14732	Sample 1	1.525
Lab 1	FID-MS	S	Sample 19	14732	Sample 1	1.515
Lab 2	FID-MS	F	Sample 6	14732	Sample 1	1.258
Lab 2	FID-MS	O	Sample 15	14732	Sample 1	1.305
Lab 3	FID-MS	R	Sample 16	14732	Sample 1	1.731
Lab 3	FID-MS	I	Sample 17	14732	Sample 1	1.834
Lab 4	FID-MS	H	Sample 8	14732	Sample 1	1.440
Lab 4	FID-MS	Q	Sample 17	14732	Sample 1	1.460
Lab 5	FID-MS	H	Sample 8	14732	Sample 1	1.984
Lab 5	FID-MS	Q	Sample 17	14732	Sample 1	1.944
Lab 6	FID-MS	S	Sample 9	14732	Sample 1	1.281
Lab 7	FID-H2	H	Sample 15	14732	Sample 1	1.464
Lab 7	FID-H2	Q	Sample 18	14732	Sample 1	1.439
Lab 8	FID-H2	S	Sample 19	14732	Sample 1	1.813
Lab 8	FID-H2	J	Sample 20	14732	Sample 1	1.752
Lab 9	FID-H2	E	Sample 5	14732	Sample 1	1.660
Lab 9	FID-H2	T	Sample 20	14732	Sample 1	1.660
Lab 10	FID-He	F	Sample 6	14732	Sample 1	1.760
Lab 10	FID-He	O	Sample 15	14732	Sample 1	1.760
Lab 11	FID-He	F	Sample 6	14732	Sample 1	1.595
Lab 11	FID-He	O	Sample 15	14732	Sample 1	1.596
Lab 12	FID-He	G	Sample 7	14732	Sample 1	1.887
Lab 12	FID-He	P	Sample 16	14732	Sample 1	1.897
Lab 1	FID-MS	C	Sample 3	14734	Sample 2	1.492
Lab 1	FID-MS	L	Sample 12	14734	Sample 2	1.972
Lab 2	FID-MS	I	Sample 9	14734	Sample 2	1.348
Lab 2	FID-MS	R	Sample 18	14734	Sample 2	1.321
Lab 3	FID-MS	K	Sample 2	14734	Sample 2	1.588
Lab 3	FID-MS	B	Sample 4	14734	Sample 2	1.583
Lab 4	FID-MS	A	Sample 1	14734	Sample 2	1.280
Lab 4	FID-MS	T	Sample 20	14734	Sample 2	1.390
Lab 5	FID-MS	A	Sample 1	14734	Sample 2	1.709
Lab 5	FID-MS	T	Sample 20	14734	Sample 2	1.587
Lab 6	FID-MS	C	Sample 4	14734	Sample 2	1.333
Lab 6	FID-MS	L	Sample 6	14734	Sample 2	1.356
Lab 7	FID-H2	A	Sample 1	14734	Sample 2	1.485
Lab 7	FID-H2	T	Sample 3	14734	Sample 2	1.446
Lab 8	FID-H2	C	Sample 5	14734	Sample 2	1.583
Lab 8	FID-H2	L	Sample 7	14734	Sample 2	1.564
Lab 9	FID-H2	H	Sample 8	14734	Sample 2	1.580
Lab 9	FID-H2	M	Sample 13	14734	Sample 2	1.610
Lab 10	FID-He	I	Sample 9	14734	Sample 2	1.560
Lab 10	FID-He	R	Sample 18	14734	Sample 2	1.560
Lab 11	FID-He	I	Sample 9	14734	Sample 2	1.574
Lab 11	FID-He	R	Sample 18	14734	Sample 2	1.520
Lab 12	FID-He	J	Sample 10	14734	Sample 2	1.701
Lab 12	FID-He	S	Sample 19	14734	Sample 2	1.689
Lab 1	FID-MS	B	Sample 2	14745	Sample 3	1.902
Lab 1	FID-MS	K	Sample 11	14745	Sample 3	2.243
Lab 2	FID-MS	H	Sample 8	14745	Sample 3	1.582
Lab 2	FID-MS	Q	Sample 17	14745	Sample 3	1.404
Lab 3	FID-MS	A	Sample 1	14745	Sample 3	2.186
Lab 3	FID-MS	T	Sample 3	14745	Sample 3	2.121
Lab 4	FID-MS	J	Sample 10	14745	Sample 3	1.710
Lab 4	FID-MS	S	Sample 19	14745	Sample 3	1.710
Lab 5	FID-MS	J	Sample 10	14745	Sample 3	2.243
Lab 5	FID-MS	S	Sample 19	14745	Sample 3	2.290
Lab 7	FID-H2	S	Sample 19	14745	Sample 3	1.736
Lab 7	FID-H2	J	Sample 20	14745	Sample 3	1.731

Lab 8	FID-H2	K	Sample 2	14745	Sample 3	2.064
Lab 8	FID-H2	B	Sample 4	14745	Sample 3	2.067
Lab 9	FID-H2	G	Sample 7	14745	Sample 3	1.950
Lab 9	FID-H2	L	Sample 12	14745	Sample 3	2.040
Lab 10	FID-He	H	Sample 8	14745	Sample 3	2.040
Lab 10	FID-He	Q	Sample 17	14745	Sample 3	2.030
Lab 11	FID-He	H	Sample 8	14745	Sample 3	1.888
Lab 11	FID-He	Q	Sample 17	14745	Sample 3	1.892
Lab 12	FID-He	I	Sample 9	14745	Sample 3	2.192
Lab 12	FID-He	R	Sample 18	14745	Sample 3	2.210
Lab 1	FID-MS	H	Sample 8	14785	Sample 4	1.082
Lab 1	FID-MS	Q	Sample 17	14785	Sample 4	1.094
Lab 2	FID-MS	D	Sample 4	14785	Sample 4	1.324
Lab 2	FID-MS	M	Sample 13	14785	Sample 4	1.270
Lab 3	FID-MS	G	Sample 12	14785	Sample 4	1.233
Lab 3	FID-MS	P	Sample 13	14785	Sample 4	1.189
Lab 4	FID-MS	F	Sample 6	14785	Sample 4	0.990
Lab 4	FID-MS	O	Sample 15	14785	Sample 4	1.060
Lab 5	FID-MS	F	Sample 6	14785	Sample 4	1.350
Lab 5	FID-MS	O	Sample 15	14785	Sample 4	1.360
Lab 7	FID-H2	F	Sample 11	14785	Sample 4	1.083
Lab 7	FID-H2	O	Sample 14	14785	Sample 4	1.090
Lab 8	FID-H2	H	Sample 15	14785	Sample 4	1.198
Lab 8	FID-H2	Q	Sample 18	14785	Sample 4	1.199
Lab 9	FID-H2	C	Sample 3	14785	Sample 4	1.250
Lab 9	FID-H2	R	Sample 18	14785	Sample 4	1.300
Lab 10	FID-He	D	Sample 4	14785	Sample 4	1.160
Lab 10	FID-He	M	Sample 13	14785	Sample 4	1.170
Lab 11	FID-He	D	Sample 4	14785	Sample 4	1.144
Lab 11	FID-He	M	Sample 13	14785	Sample 4	1.158
Lab 12	FID-He	E	Sample 5	14785	Sample 4	1.285
Lab 12	FID-He	N	Sample 14	14785	Sample 4	1.287
Lab 1	FID-MS	I	Sample 9	14798	Sample 5	1.337
Lab 1	FID-MS	R	Sample 18	14798	Sample 5	1.423
Lab 2	FID-MS	E	Sample 5	14798	Sample 5	1.207
Lab 2	FID-MS	N	Sample 14	14798	Sample 5	1.203
Lab 3	FID-MS	H	Sample 15	14798	Sample 5	1.664
Lab 3	FID-MS	Q	Sample 18	14798	Sample 5	1.568
Lab 4	FID-MS	G	Sample 7	14798	Sample 5	1.420
Lab 4	FID-MS	P	Sample 16	14798	Sample 5	1.300
Lab 5	FID-MS	G	Sample 7	14798	Sample 5	1.767
Lab 5	FID-MS	P	Sample 16	14798	Sample 5	1.685
Lab 7	FID-H2	G	Sample 12	14798	Sample 5	1.467
Lab 7	FID-H2	P	Sample 13	14798	Sample 5	1.450
Lab 8	FID-H2	R	Sample 16	14798	Sample 5	1.551
Lab 8	FID-H2	I	Sample 17	14798	Sample 5	1.548
Lab 9	FID-H2	D	Sample 4	14798	Sample 5	1.670
Lab 9	FID-H2	S	Sample 19	14798	Sample 5	1.640
Lab 10	FID-He	E	Sample 5	14798	Sample 5	1.650
Lab 10	FID-He	N	Sample 14	14798	Sample 5	1.670
Lab 11	FID-He	E	Sample 5	14798	Sample 5	1.413
Lab 11	FID-He	N	Sample 14	14798	Sample 5	1.511
Lab 12	FID-He	F	Sample 6	14798	Sample 5	1.701
Lab 12	FID-He	O	Sample 15	14798	Sample 5	1.705
Lab 1	FID-MS	D	Sample 4	14848	Sample 6	0.824
Lab 1	FID-MS	M	Sample 13	14848	Sample 6	0.807
Lab 2	FID-MS	J	Sample 10	14848	Sample 6	0.553
Lab 2	FID-MS	S	Sample 19	14848	Sample 6	0.559
Lab 3	FID-MS	C	Sample 5	14848	Sample 6	0.711
Lab 3	FID-MS	L	Sample 7	14848	Sample 6	0.657
Lab 4	FID-MS	B	Sample 2	14848	Sample 6	0.480
Lab 4	FID-MS	K	Sample 11	14848	Sample 6	0.590
Lab 5	FID-MS	B	Sample 2	14848	Sample 6	0.666
Lab 5	FID-MS	K	Sample 11	14848	Sample 6	0.623
Lab 6	FID-MS	D	Sample 1	14848	Sample 6	0.644
Lab 6	FID-MS	M	Sample 5	14848	Sample 6	0.607

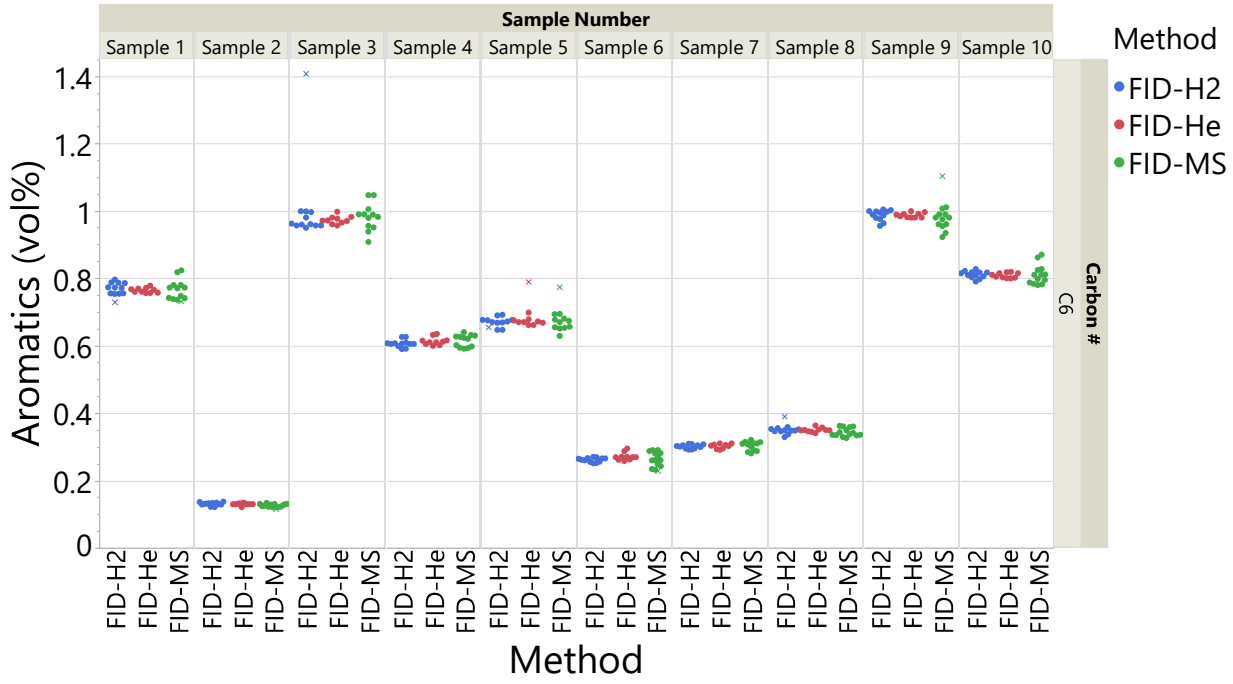
Lab 7	FID-H2	K	Sample 2	14848	Sample 6	0.652
Lab 7	FID-H2	B	Sample 4	14848	Sample 6	0.687
Lab 8	FID-H2	M	Sample 6	14848	Sample 6	0.769
Lab 8	FID-H2	D	Sample 8	14848	Sample 6	0.741
Lab 9	FID-H2	I	Sample 9	14848	Sample 6	0.710
Lab 9	FID-H2	N	Sample 14	14848	Sample 6	0.750
Lab 10	FID-He	J	Sample 10	14848	Sample 6	0.720
Lab 10	FID-He	S	Sample 19	14848	Sample 6	0.720
Lab 11	FID-He	J	Sample 10	14848	Sample 6	0.780
Lab 11	FID-He	S	Sample 19	14848	Sample 6	0.806
Lab 12	FID-He	A	Sample 1	14848	Sample 6	0.914
Lab 12	FID-He	T	Sample 20	14848	Sample 6	0.907
Lab 1	FID-MS	A	Sample 1	14858	Sample 7	1.902
Lab 1	FID-MS	T	Sample 20	14858	Sample 7	1.735
Lab 2	FID-MS	G	Sample 7	14858	Sample 7	1.744
Lab 2	FID-MS	P	Sample 16	14858	Sample 7	1.710
Lab 3	FID-MS	S	Sample 19	14858	Sample 7	1.959
Lab 3	FID-MS	J	Sample 20	14858	Sample 7	2.009
Lab 4	FID-MS	I	Sample 9	14858	Sample 7	1.820
Lab 4	FID-MS	R	Sample 18	14858	Sample 7	1.770
Lab 5	FID-MS	I	Sample 9	14858	Sample 7	2.126
Lab 5	FID-MS	R	Sample 18	14858	Sample 7	2.208
Lab 7	FID-H2	R	Sample 16	14858	Sample 7	1.761
Lab 7	FID-H2	I	Sample 17	14858	Sample 7	1.776
Lab 8	FID-H2	A	Sample 1	14858	Sample 7	2.018
Lab 8	FID-H2	T	Sample 3	14858	Sample 7	2.015
Lab 9	FID-H2	F	Sample 6	14858	Sample 7	2.000
Lab 9	FID-H2	K	Sample 11	14858	Sample 7	2.070
Lab 10	FID-He	G	Sample 7	14858	Sample 7	1.980
Lab 10	FID-He	P	Sample 16	14858	Sample 7	1.990
Lab 11	FID-He	G	Sample 7	14858	Sample 7	1.893
Lab 11	FID-He	P	Sample 16	14858	Sample 7	1.892
Lab 12	FID-He	H	Sample 8	14858	Sample 7	2.139
Lab 12	FID-He	Q	Sample 17	14858	Sample 7	2.140
Lab 1	FID-MS	E	Sample 5	14865	Sample 8	1.147
Lab 1	FID-MS	N	Sample 14	14865	Sample 8	1.112
Lab 2	FID-MS	A	Sample 1	14865	Sample 8	0.864
Lab 2	FID-MS	T	Sample 20	14865	Sample 8	0.868
Lab 3	FID-MS	M	Sample 6	14865	Sample 8	1.162
Lab 3	FID-MS	D	Sample 8	14865	Sample 8	1.204
Lab 4	FID-MS	C	Sample 3	14865	Sample 8	0.910
Lab 4	FID-MS	L	Sample 12	14865	Sample 8	0.920
Lab 5	FID-MS	C	Sample 3	14865	Sample 8	1.351
Lab 5	FID-MS	L	Sample 12	14865	Sample 8	1.382
Lab 6	FID-MS	E	Sample 2	14865	Sample 8	0.998
Lab 6	FID-MS	N	Sample 7	14865	Sample 8	1.003
Lab 7	FID-H2	C	Sample 5	14865	Sample 8	1.162
Lab 7	FID-H2	L	Sample 7	14865	Sample 8	1.176
Lab 8	FID-H2	N	Sample 9	14865	Sample 8	1.307
Lab 8	FID-H2	E	Sample 10	14865	Sample 8	1.283
Lab 9	FID-H2	J	Sample 10	14865	Sample 8	1.300
Lab 9	FID-H2	O	Sample 15	14865	Sample 8	1.290
Lab 10	FID-He	A	Sample 1	14865	Sample 8	1.250
Lab 10	FID-He	T	Sample 20	14865	Sample 8	1.250
Lab 11	FID-He	A	Sample 1	14865	Sample 8	1.241
Lab 11	FID-He	T	Sample 20	14865	Sample 8	1.237
Lab 12	FID-He	B	Sample 2	14865	Sample 8	1.378
Lab 12	FID-He	K	Sample 11	14865	Sample 8	1.377
Lab 1	FID-MS	F	Sample 6	14866	Sample 9	1.331
Lab 1	FID-MS	O	Sample 15	14866	Sample 9	1.635
Lab 2	FID-MS	B	Sample 2	14866	Sample 9	1.294
Lab 2	FID-MS	K	Sample 11	14866	Sample 9	1.296
Lab 3	FID-MS	N	Sample 9	14866	Sample 9	1.421
Lab 3	FID-MS	E	Sample 10	14866	Sample 9	1.369
Lab 4	FID-MS	D	Sample 4	14866	Sample 9	1.280
Lab 4	FID-MS	M	Sample 13	14866	Sample 9	1.290

Lab 5	FID-MS	D	Sample 4	14866	Sample 9	1.489
Lab 5	FID-MS	M	Sample 13	14866	Sample 9	1.532
Lab 6	FID-MS	F	Sample 3	14866	Sample 9	1.285
Lab 7	FID-H2	M	Sample 6	14866	Sample 9	1.286
Lab 7	FID-H2	D	Sample 8	14866	Sample 9	1.292
Lab 8	FID-H2	F	Sample 11	14866	Sample 9	1.393
Lab 8	FID-H2	O	Sample 14	14866	Sample 9	1.393
Lab 9	FID-H2	A	Sample 1	14866	Sample 9	1.390
Lab 9	FID-H2	P	Sample 16	14866	Sample 9	1.380
Lab 10	FID-He	B	Sample 2	14866	Sample 9	1.390
Lab 10	FID-He	K	Sample 11	14866	Sample 9	1.400
Lab 11	FID-He	B	Sample 2	14866	Sample 9	1.302
Lab 11	FID-He	K	Sample 11	14866	Sample 9	1.351
Lab 12	FID-He	C	Sample 3	14866	Sample 9	1.458
Lab 12	FID-He	L	Sample 12	14866	Sample 9	1.459
Lab 1	FID-MS	G	Sample 7	14869	Sample 10	0.914
Lab 1	FID-MS	P	Sample 16	14869	Sample 10	0.971
Lab 2	FID-MS	C	Sample 3	14869	Sample 10	0.889
Lab 2	FID-MS	L	Sample 12	14869	Sample 10	0.879
Lab 3	FID-MS	F	Sample 11	14869	Sample 10	0.973
Lab 3	FID-MS	O	Sample 14	14869	Sample 10	0.943
Lab 4	FID-MS	E	Sample 5	14869	Sample 10	0.880
Lab 4	FID-MS	N	Sample 14	14869	Sample 10	0.900
Lab 5	FID-MS	E	Sample 5	14869	Sample 10	1.087
Lab 5	FID-MS	N	Sample 14	14869	Sample 10	1.074
Lab 6	FID-MS	G	Sample 8	14869	Sample 10	0.859
Lab 7	FID-H2	N	Sample 9	14869	Sample 10	0.921
Lab 7	FID-H2	E	Sample 10	14869	Sample 10	0.920
Lab 8	FID-H2	G	Sample 12	14869	Sample 10	0.979
Lab 8	FID-H2	P	Sample 13	14869	Sample 10	0.979
Lab 9	FID-H2	B	Sample 2	14869	Sample 10	0.960
Lab 9	FID-H2	Q	Sample 17	14869	Sample 10	0.980
Lab 10	FID-He	C	Sample 3	14869	Sample 10	0.940
Lab 10	FID-He	L	Sample 12	14869	Sample 10	0.940
Lab 11	FID-He	C	Sample 3	14869	Sample 10	0.952
Lab 11	FID-He	L	Sample 12	14869	Sample 10	0.954
Lab 12	FID-He	D	Sample 4	14869	Sample 10	1.008
Lab 12	FID-He	M	Sample 13	14869	Sample 10	1.006

APPENDIX C – C6-C12 AROMATICS

C6 Aromatics

Plot of all methods raw data with "x" for rejected data.



FID-H2 Rejected Data (3.3%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	Gd 0.729	0.131	0.957	0.606	0.672
Lab1 (R2)	0.773	0.130	0.961	0.609	0.676
Lab2 (R1)	0.786	0.133	0.998	0.605	0.677
Lab2 (R2)	0.787	0.132	0.980	0.607	0.676
Lab3 (R1)	0.753	0.130	0.962	0.607	0.668
Lab3 (R2)	0.754	0.128	0.959	0.605	0.669
Lab4 (R1)	0.796	0.136	0.996	0.626	0.690
Lab4 (R2)	0.786	0.137	0.999	0.626	0.691
Lab5 (R1)	0.771	0.128	0.957	0.590	Gd 0.654
Lab5 (R2)	0.773	0.134	Gd 1.407	0.605	0.670
Lab6 (R1)	0.755	0.121	0.950	0.591	0.647
Lab6 (R2)	0.755	0.121	0.957	0.598	0.647

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.266	0.304	0.348	0.987	0.809
Lab1 (R2)	0.270	0.304	0.353	0.989	0.809
Lab2 (R1)	0.255	0.291	0.352	0.999	0.827
Lab2 (R2)	0.256	0.295	0.355	1.004	0.817
Lab3 (R1)	0.265	0.300	0.346	0.976	0.806
Lab3 (R2)	0.265	0.302	0.346	0.979	0.803
Lab4 (R1)	0.264	0.307	Gd 0.389	0.997	0.817
Lab4 (R2)	0.260	0.308	0.358	0.999	0.818
Lab5 (R1)	0.251	0.292	0.348	1.002	0.815
Lab5 (R2)	0.252	0.296	0.348	0.995	0.822
Lab6 (R1)	0.261	0.299	0.329	0.955	0.791
Lab6 (R2)	0.269	0.308	0.336	0.963	0.797

FID-He Rejected Data (1.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.760	0.130	0.980	0.610	0.670
Lab1 (R2)	0.760	0.130	0.970	0.610	0.670
Lab2 (R1)	0.778	0.134	0.982	0.632	Gd 0.789
Lab2 (R2)	0.771	0.132	0.997	0.635	0.698
Lab3 (R1)	0.756	0.129	0.972	0.612	0.668
Lab3 (R2)	0.769	0.121	0.965	0.605	0.672
Lab4 (R1)	0.756	0.129	0.960	0.599	0.661
Lab4 (R2)	0.757	0.129	0.957	0.601	0.661
Lab5 (R1)	0.767	0.129	0.977	0.615	0.678
Lab5 (R2)	0.766	0.129	0.971	0.616	0.675

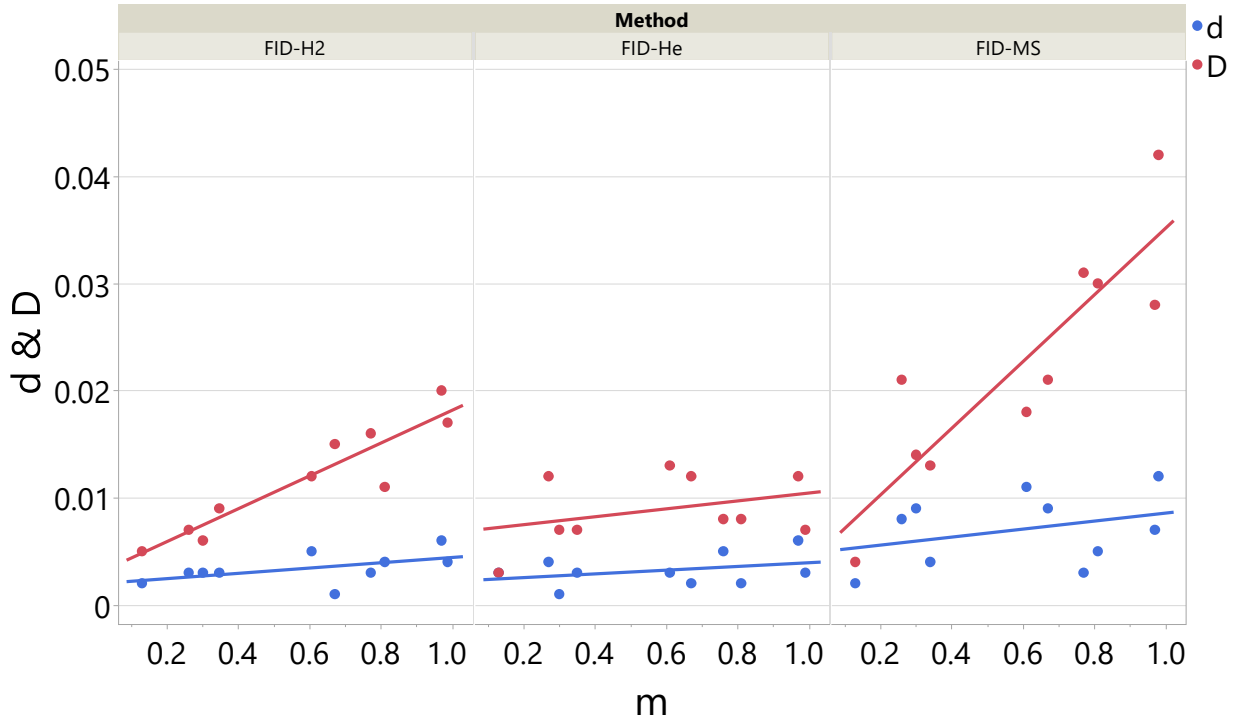
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.270	0.310	0.350	0.980	0.800
Lab1 (R2)	0.270	0.310	0.350	0.980	0.800
Lab2 (R1)	0.262	0.302	0.357	0.999	0.818
Lab2 (R2)	0.258	0.303	0.363	0.996	0.819
Lab3 (R1)	0.295	x	0.344	0.981	0.805
Lab3 (R2)	0.287	0.295	0.351	0.989	0.810
Lab4 (R1)	0.261	0.291	0.340	0.980	0.803
Lab4 (R2)	0.269	0.293	0.346	0.984	0.802
Lab5 (R1)	0.269	0.305	0.348	0.991	0.815
Lab5 (R2)	0.269	0.306	0.348	0.991	0.816

FID-MS Rejected Data (3.9%)

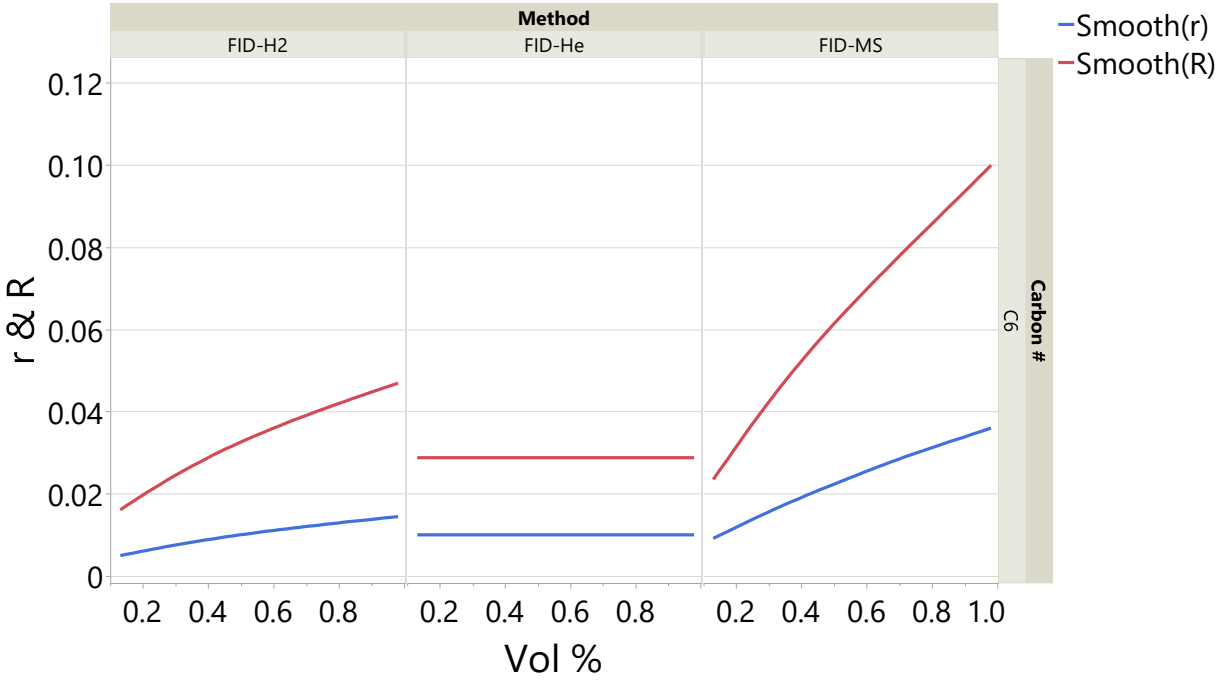
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.741	0.125	0.939	0.591	0.653
Lab1 (R2)	0.736	0.122	0.908	0.592	0.651
Lab2 (R1)	0.823	0.130	1.047	0.632	0.694
Lab2 (R2)	0.818	0.129	1.046	0.630	0.693
Lab3 (R1)	0.772	0.126	0.982	0.623	0.677
Lab3 (R2)	0.770	0.129	0.989	0.626	0.674
Lab4 (R1)	0.780	0.130	0.990	0.640	0.670
Lab4 (R2)	0.780	0.130	0.990	0.620	0.680
Lab5 (R1)	0.742	0.121	0.956	0.602	Gd 0.774
Lab5 (R2)	0.738	0.122	0.951	0.598	0.655
Lab6 (R1)	Gd 0.731	Gd 0.115	1.005	0.627	0.629
Lab6 (R2)	0.748	0.133	0.979	0.594	0.656
Lab7 (R1)	0.772	0.120	x	x	x
Lab7 (R2)	x	0.124	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.260	0.307	0.334	0.935	0.780
Lab1 (R2)	0.259	0.301	0.335	0.955	0.782
Lab2 (R1)	0.287	0.314	0.362	1.011	0.824
Lab2 (R2)	0.290	0.315	0.358	1.007	0.828
Lab3 (R1)	0.260	0.290	0.337	0.980	0.811
Lab3 (R2)	C 0.228	0.310	0.349	0.975	0.798
Lab4 (R1)	0.290	0.310	0.360	0.990	0.810
Lab4 (R2)	0.270	0.320	0.360	0.990	0.810
Lab5 (R1)	0.242	0.284	0.336	0.960	0.784
Lab5 (R2)	0.232	0.280	0.335	0.960	0.787
Lab6 (R1)	0.234	0.309	0.326	Gd 1.103	0.862
Lab6 (R2)	0.248	0.287	0.329	0.922	0.870
Lab7 (R1)	0.280	x	0.341	0.980	0.795
Lab7 (R2)	0.281	x	0.343	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

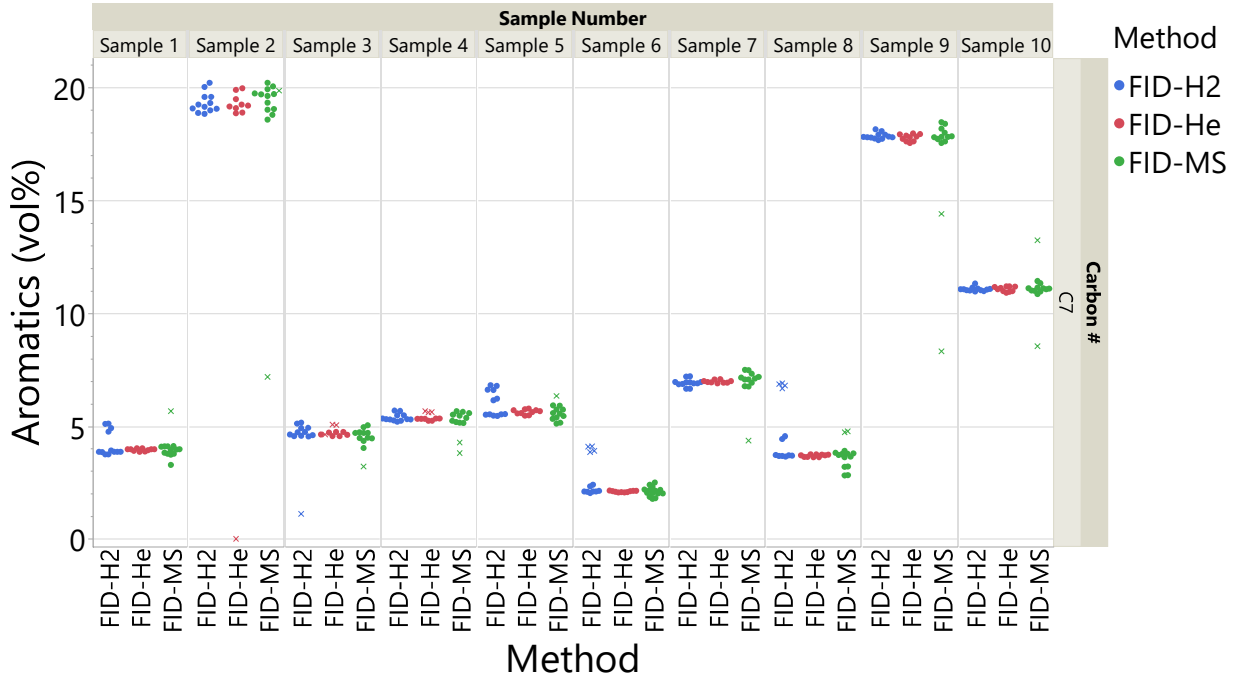


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.0146*(x^0.5391)	56	0.0474*(x^0.5391)	17	0.10-1.00	DF (R), F-test
FID-He	0.0100	48	0.0288	18	0.10-1.00	# Labs, DF (R), F-test
FID-MS	0.0368*(x^0..7174)	58	0.1010*(x^0..7174)	20	0.10-1.00	DF (R), F-test

C7 Aromatics

Plot of all methods raw data with “x” for rejected data.



FID-H2 Rejected Data (7.5%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	4.75	19.58	4.91	5.47	6.60
Lab1 (R2)	4.91	19.59	4.92	5.48	6.61
Lab2 (R1)	5.11	20.21	5.15	5.67	6.78
Lab2 (R2)	5.10	20.03	5.11	5.68	6.81
Lab3 (R1)	3.86	19.15	4.57	5.29	5.52
Lab3 (R2)	3.84	19.06	4.54	5.31	5.52
Lab4 (R1)	3.75	18.83	4.73	5.24	6.14
Lab4 (R2)	3.75	18.87	4.72	5.25	6.22
Lab5 (R1)	3.85	19.25	4.55	5.19	5.50
Lab5 (R2)	3.91	19.31	Gd 1.11	5.30	5.53
Lab6 (R1)	3.85	18.99	4.59	5.30	5.47
Lab6 (R2)	3.86	19.07	4.62	5.34	5.45

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	H 3.84	6.87	H 6.67	17.67	11.00
Lab1 (R2)	H 3.91	6.89	H 6.79	17.73	11.03
Lab2 (R1)	H 4.10	7.20	H 6.86	17.83	11.14
Lab2 (R2)	H 4.09	7.20	H 6.90	17.92	11.06
Lab3 (R1)	2.10	6.86	3.68	17.91	11.04
Lab3 (R2)	2.12	6.89	3.70	17.80	11.07
Lab4 (R1)	2.33	6.65	4.43	17.79	10.96
Lab4 (R2)	2.40	6.66	4.55	17.81	11.02
Lab5 (R1)	2.04	6.96	3.65	18.07	11.09
Lab5 (R2)	2.09	6.94	3.71	18.15	11.31
Lab6 (R1)	2.10	6.93	3.69	17.74	11.07
Lab6 (R2)	2.10	6.96	3.68	17.79	10.98

FID-He Rejected Data (7.1%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.760	0.130	0.980	0.610	0.670
Lab1 (R2)	0.760	0.130	0.970	0.610	0.670
Lab2 (R1)	0.778	0.134	0.982	0.632	Gd 0.789
Lab2 (R2)	0.771	0.132	0.997	0.635	0.698
Lab3 (R1)	0.756	0.129	0.972	0.612	0.668
Lab3 (R2)	0.769	0.121	0.965	0.605	0.672
Lab4 (R1)	0.756	0.129	0.960	0.599	0.661
Lab4 (R2)	0.757	0.129	0.957	0.601	0.661
Lab5 (R1)	0.767	0.129	0.977	0.615	0.678
Lab5 (R2)	0.766	0.129	0.971	0.616	0.675

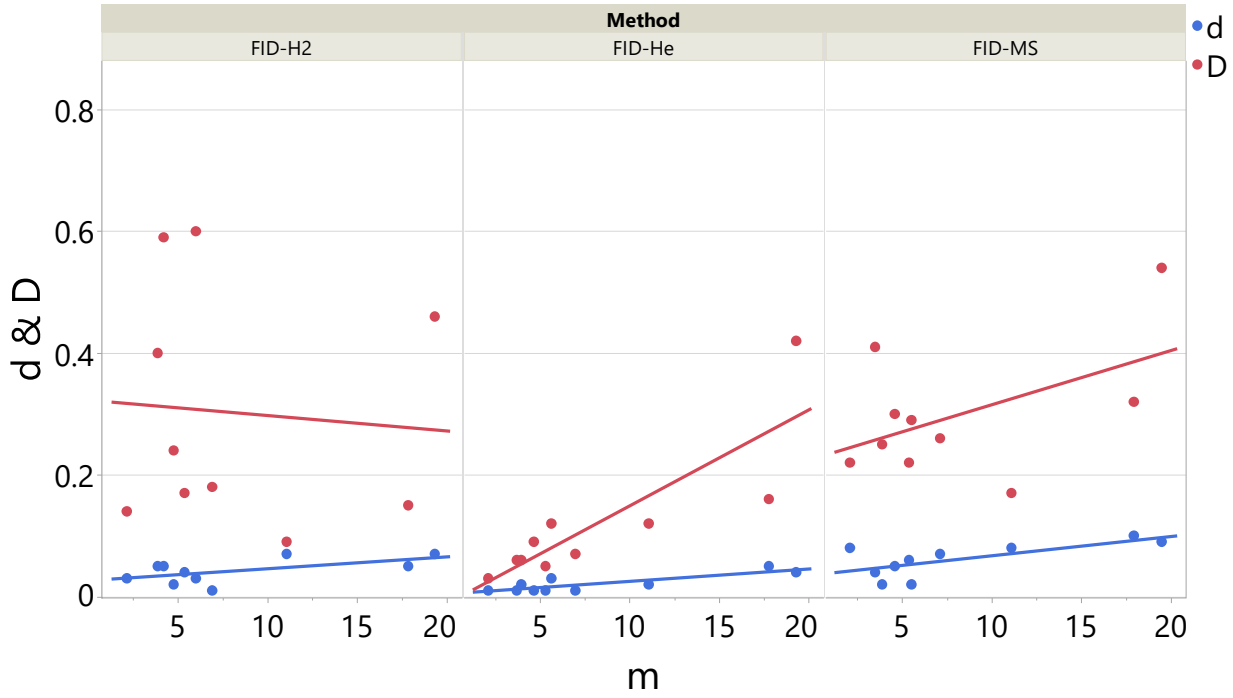
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.270	0.310	0.350	0.980	0.800
Lab1 (R2)	0.270	0.310	0.350	0.980	0.800
Lab2 (R1)	0.262	0.302	0.357	0.999	0.818
Lab2 (R2)	0.258	0.303	0.363	0.996	0.819
Lab3 (R1)	0.295	x	0.344	0.981	0.805
Lab3 (R2)	0.287	0.295	0.351	0.989	0.810
Lab4 (R1)	0.261	0.291	0.340	0.980	0.803
Lab4 (R2)	0.269	0.293	0.346	0.984	0.802
Lab5 (R1)	0.269	0.305	0.348	0.991	0.815
Lab5 (R2)	0.269	0.306	0.348	0.991	0.816

FID-MS Rejected Data (10.9%)

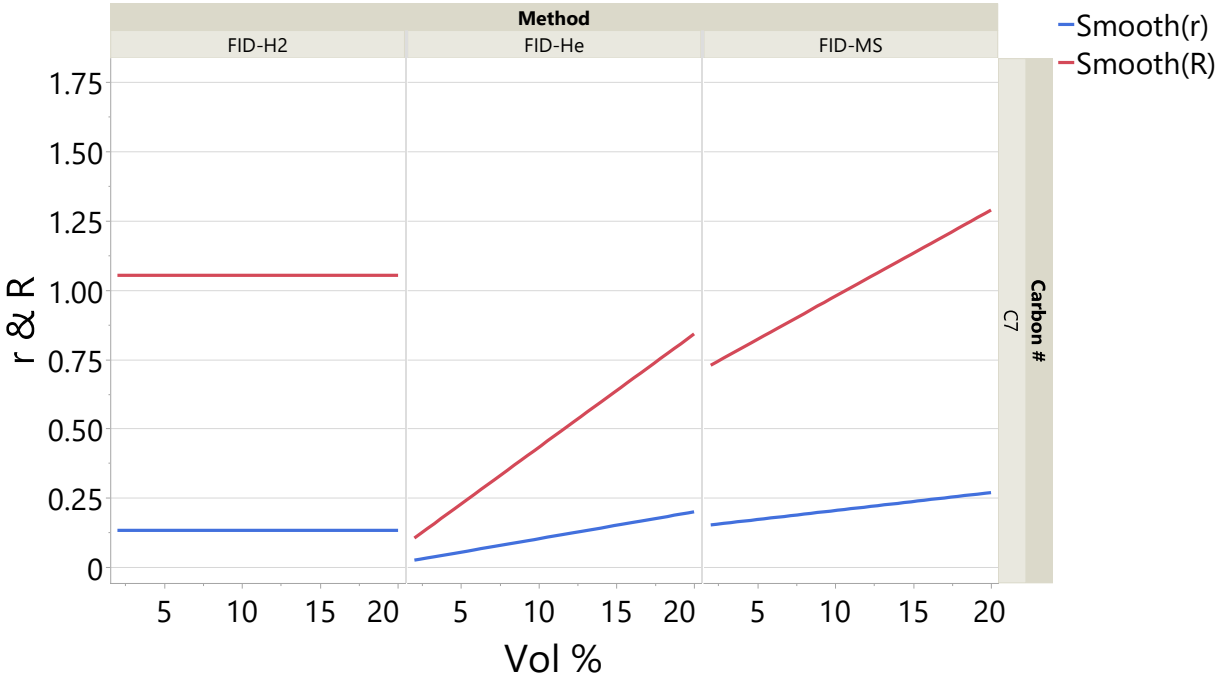
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.741	0.125	0.939	0.591	0.653
Lab1 (R2)	0.736	0.122	0.908	0.592	0.651
Lab2 (R1)	0.823	0.130	1.047	0.632	0.694
Lab2 (R2)	0.818	0.129	1.046	0.630	0.693
Lab3 (R1)	0.772	0.126	0.982	0.623	0.677
Lab3 (R2)	0.770	0.129	0.989	0.626	0.674
Lab4 (R1)	0.780	0.130	0.990	0.640	0.670
Lab4 (R2)	0.780	0.130	0.990	0.620	0.680
Lab5 (R1)	0.742	0.121	0.956	0.602	Gd 0.774
Lab5 (R2)	0.738	0.122	0.951	0.598	0.655
Lab6 (R1)	Gd 0.731	Gd 0.115	1.005	0.627	0.629
Lab6 (R2)	0.748	0.133	0.979	0.594	0.656
Lab7 (R1)	0.772	0.120	x	x	x
Lab7 (R2)	x	0.124	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.260	0.307	0.334	0.935	0.780
Lab1 (R2)	0.259	0.301	0.335	0.955	0.782
Lab2 (R1)	0.287	0.314	0.362	1.011	0.824
Lab2 (R2)	0.290	0.315	0.358	1.007	0.828
Lab3 (R1)	0.260	0.290	0.337	0.980	0.811
Lab3 (R2)	C 0.228	0.310	0.349	0.975	0.798
Lab4 (R1)	0.290	0.310	0.360	0.990	0.810
Lab4 (R2)	0.270	0.320	0.360	0.990	0.810
Lab5 (R1)	0.242	0.284	0.336	0.960	0.784
Lab5 (R2)	0.232	0.280	0.335	0.960	0.787
Lab6 (R1)	0.234	0.309	0.326	Gd 1.103	0.862
Lab6 (R2)	0.248	0.287	0.329	0.922	0.870
Lab7 (R1)	0.280	x	0.341	0.980	0.795
Lab7 (R2)	0.281	x	0.343	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

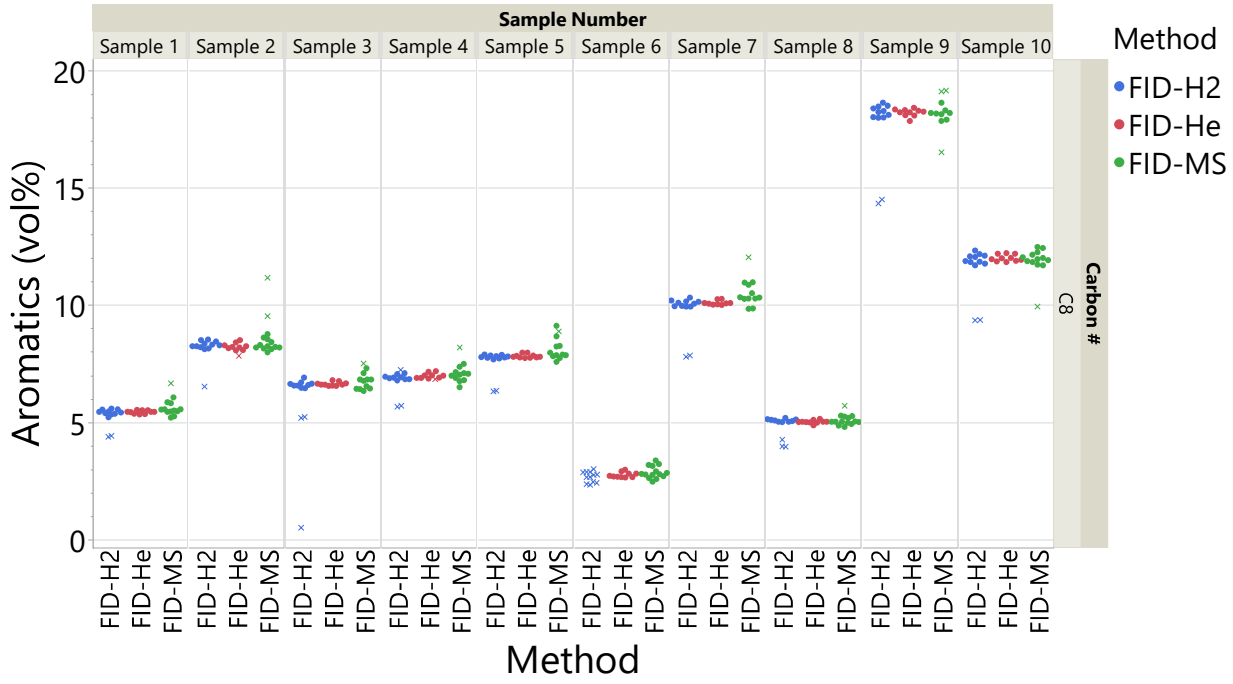


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.1323	55	1.0530	21	2-20	DF (R), F-test
FID-He	0.0097*(x+0.5619)	44	0.0409*(x+0.5619)	17	2-20	# Labs, DF (R), F-test
FID-MS	0.0065*(x+21.4109)	53	0.0311*(x+21.4109)	31	2-20	Rejected %, F-test

C8 Aromatics

Plot of all methods raw data with "x" for rejected data.



FID-H2 Rejected Data (26.7%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	5.22	8.24	6.58	6.88	7.75
Lab1 (R2)	5.34	8.24	6.57	6.92	7.76
Lab2 (R1)	5.44	8.28	6.65	6.91	7.82
Lab2 (R2)	5.42	8.20	6.64	6.94	7.84
Lab3 (R1)	Gs 4.43	8.44	Gs 5.23	Gs 5.66	Gs 6.34
Lab3 (R2)	Gs 4.37	Gd 6.53	Gs 5.19	Gs 5.70	Gs 6.32
Lab4 (R1)	5.38	8.15	6.47	6.79	7.68
Lab4 (R2)	5.36	8.12	6.45	6.84	7.72
Lab5 (R1)	5.45	8.52	6.57	6.84	7.78
Lab5 (R2)	5.58	8.31	Gd 0.50	Gd 7.23	7.87
Lab6 (R1)	5.54	8.51	6.91	7.05	7.81
Lab6 (R2)	5.55	8.35	6.71	7.09	7.89

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	V 2.42	9.93	Gd 4.26	18.23	12.04
Lab1 (R2)	V 2.46	9.96	5.08	18.27	12.07
Lab2 (R1)	V 2.75	10.09	5.05	18.00	11.85
Lab2 (R2)	V 2.77	10.14	5.10	18.10	11.83
Lab3 (R1)	V 2.33	Gs 7.79	Gs 3.97	Gs 14.50	Gs 9.34
Lab3 (R2)	V 2.36	Gs 7.84	Gs 3.95	Gs 14.32	Gs 9.36
Lab4 (R1)	V 2.66	9.93	5.01	17.99	11.69
Lab4 (R2)	V 2.65	9.95	5.03	18.01	11.76
Lab5 (R1)	V 2.87	10.06	5.03	18.38	11.88
Lab5 (R2)	V 2.87	10.16	5.12	18.46	12.16
Lab6 (R1)	V 3.00	10.31	5.19	18.63	12.32
Lab6 (R2)	V 2.88	10.19	5.13	18.49	12.10

FID-He Rejected Data (2.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	5.43	8.19	6.56	6.86	7.74
Lab1 (R2)	5.44	8.16	6.55	6.89	7.77
Lab2 (R1)	5.52	8.50	6.79	7.15	7.96
Lab2 (R2)	5.53	8.41	6.75	7.18	7.96
Lab3 (R1)	5.45	8.22	6.60	Gd 6.83	7.79
Lab3 (R2)	5.33	C 7.83	6.60	7.00	7.79
Lab4 (R1)	5.35	8.06	6.55	6.89	7.75
Lab4 (R2)	5.37	8.07	6.60	6.90	7.76
Lab5 (R1)	5.44	8.24	6.66	6.99	7.84
Lab5 (R2)	5.52	8.28	6.64	7.00	7.83

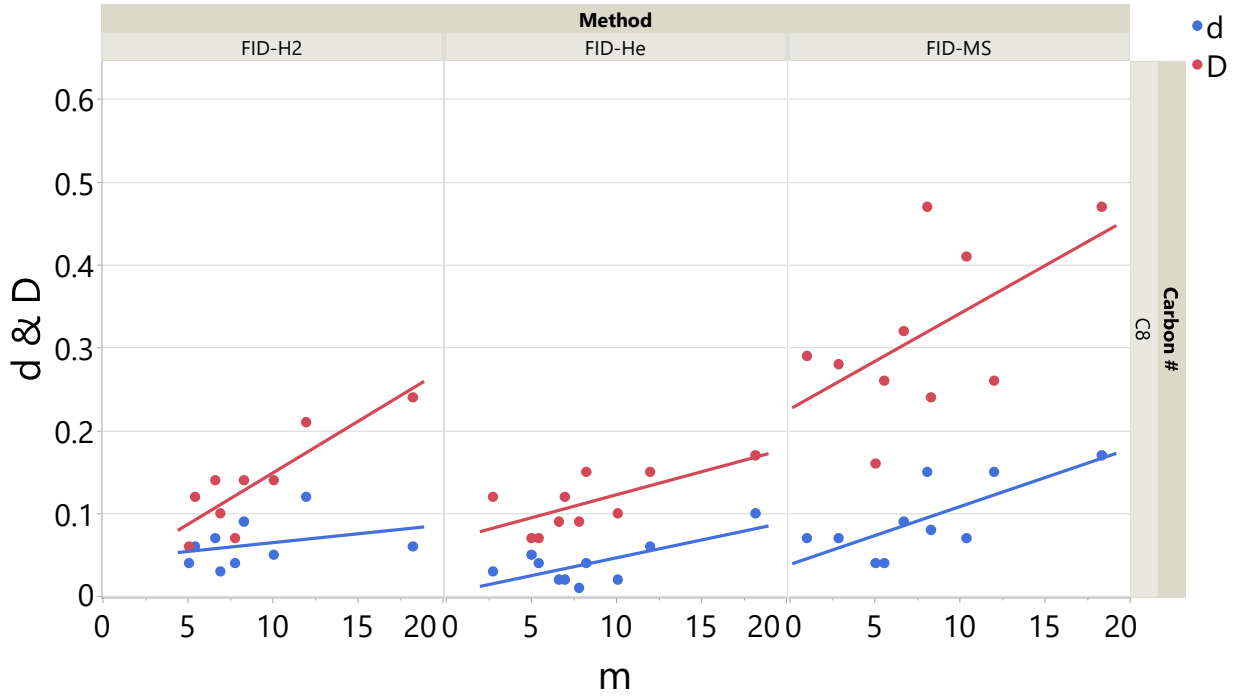
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	2.68	10.03	5.00	18.08	11.88
Lab1 (R2)	2.69	10.07	5.01	18.21	11.93
Lab2 (R1)	2.91	10.25	5.14	18.30	12.21
Lab2 (R2)	2.98	10.26	5.10	18.41	12.19
Lab3 (R1)	2.66	x	5.03	18.33	12.19
Lab3 (R2)	2.71	10.05	4.98	18.28	12.00
Lab4 (R1)	2.66	10.00	5.02	18.09	11.83
Lab4 (R2)	2.65	10.01	4.87	17.84	11.86
Lab5 (R1)	2.81	10.08	5.02	18.21	11.99
Lab5 (R2)	2.81	10.08	5.01	18.25	11.95

FID-MS Rejected Data (9.3%)

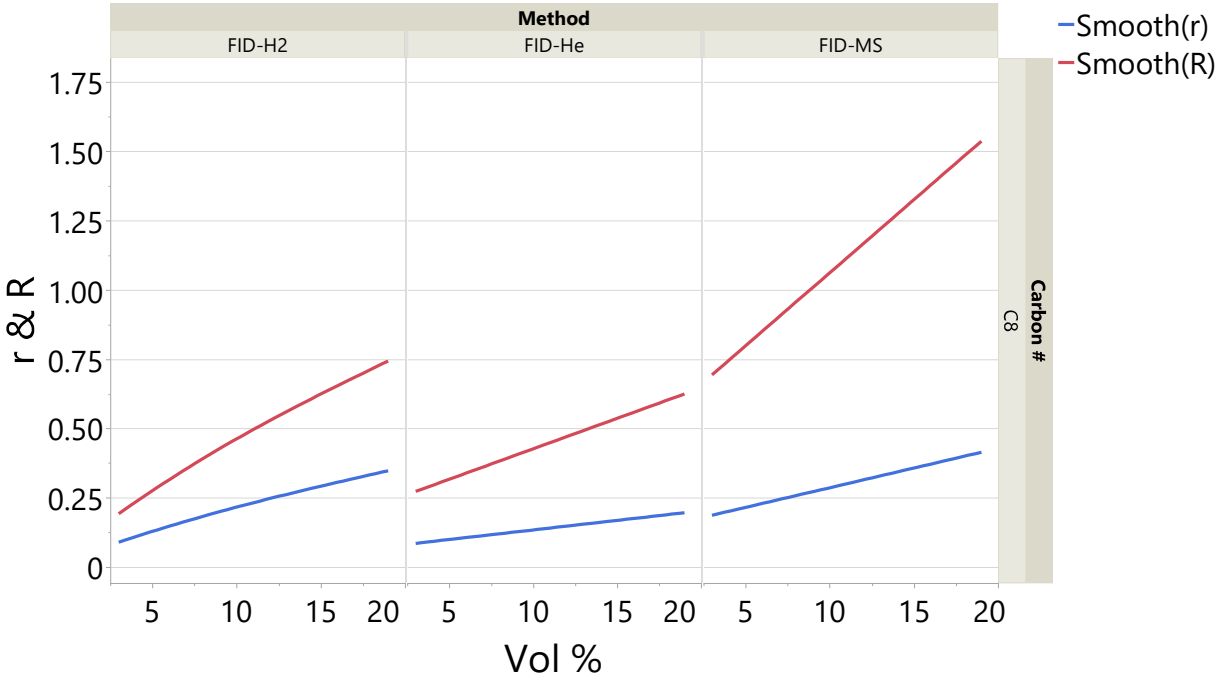
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	5.46	8.21	6.54	6.89	7.82
Lab1 (R2)	5.56	8.15	6.34	6.99	7.73
Lab2 (R1)	5.81	8.76	7.30	7.49	8.26
Lab2 (R2)	5.85	8.61	7.10	7.36	8.23
Lab3 (R1)	5.50	8.23	6.76	7.10	7.88
Lab3 (R2)	5.47	8.19	6.82	7.06	7.96
Lab4 (R1)	5.55	8.54	6.82	7.14	7.86
Lab4 (R2)	5.54	8.42	6.82	7.02	7.86
Lab5 (R1)	5.25	8.12	6.44	6.75	C 8.87
Lab5 (R2)	5.20	7.99	6.43	6.80	7.58
Lab6 (R1)	Gd 6.65	H 9.53	6.41	6.50	9.11
Lab6 (R2)	6.06	H 11.16	Gd 7.50	Gd 8.19	8.66
Lab7 (R1)	5.44	8.29	x	x	x
Lab7 (R2)	x	8.19	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	2.78	10.28	5.02	17.85	11.71
Lab1 (R2)	2.77	10.33	5.02	17.90	11.95
Lab2 (R1)	3.14	10.96	5.24	19.10	12.43
Lab2 (R2)	3.18	10.95	5.28	19.14	12.25
Lab3 (R1)	2.71	10.27	4.93	18.16	12.00
Lab3 (R2)	2.63	10.32	5.03	C 16.51	11.91
Lab4 (R1)	2.91	10.50	5.19	18.62	12.14
Lab4 (R2)	2.76	10.28	5.26	18.18	11.87
Lab5 (R1)	2.57	9.83	4.85	18.13	11.83
Lab5 (R2)	2.47	9.86	4.80	18.30	12.03
Lab6 (R1)	3.37	Gd 12.03	Gd 5.70	Gs 23.38	Gd 9.94
Lab6 (R2)	3.22	10.86	5.02	Gs 21.34	12.47
Lab7 (R1)	2.84	x	4.98	18.19	11.69
Lab7 (R2)	2.80	x	5.01	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

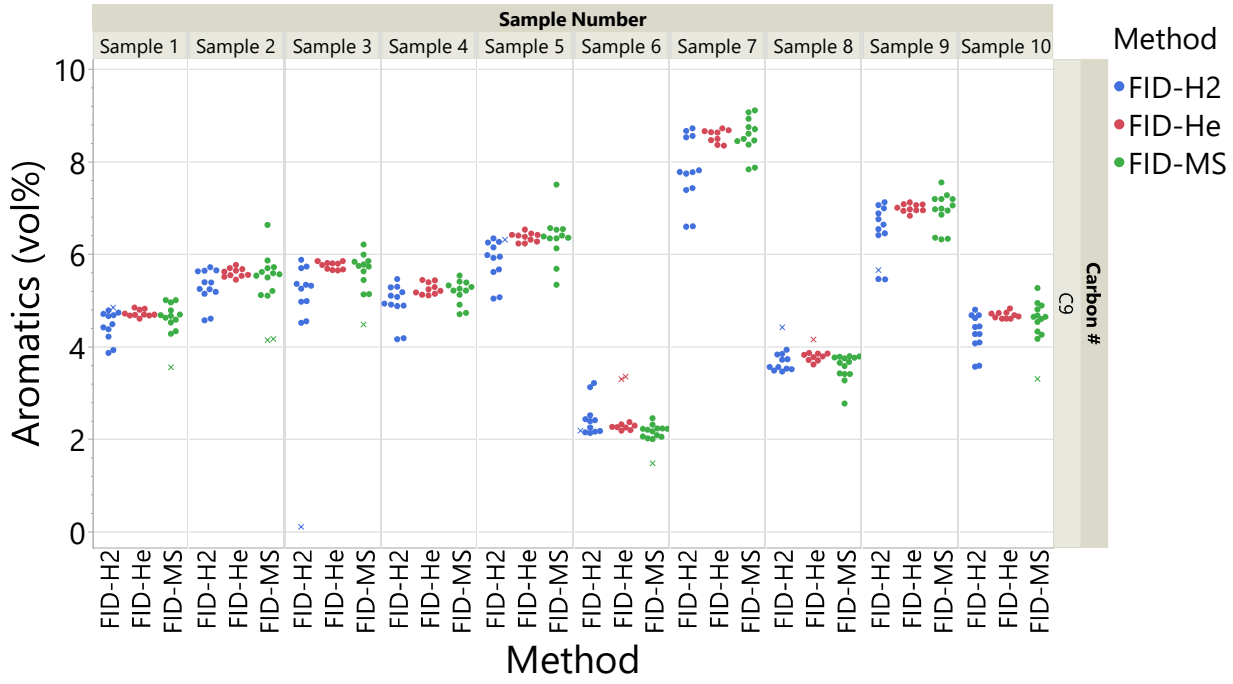


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.0394*(x^0.7391)	42	0.0843*(x^0.7391)	12	2-19	DF (R), Rejected %, F-test
FID-He	0.0069*(x+9.3921)	47	0.0220*(x+9.3921)	7	2-19	# Labs, DF (R), F-test
FID-MS	0.0142*(x+10.1493)	53	0.0527*(x+10.1493)	18	2-19	DF(R), F-test

C9 Aromatics

Plot of all methods raw data with “x” for rejected data.



FID-H2 Rejected Data (5.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	C 4.84	5.39	4.97	5.07	5.61
Lab1 (R2)	4.22	5.39	4.98	5.10	5.67
Lab2 (R1)	4.42	5.18	5.34	4.87	5.98
Lab2 (R2)	4.37	5.14	5.35	4.91	5.94
Lab3 (R1)	4.48	5.24	5.31	4.88	5.92
Lab3 (R2)	4.70	5.24	5.25	4.93	C 6.31
Lab4 (R1)	3.92	4.60	4.55	4.18	5.03
Lab4 (R2)	3.86	4.57	4.51	4.16	5.07
Lab5 (R1)	4.73	5.65	5.70	5.29	6.14
Lab5 (R2)	4.78	5.64	Gd 0.10	5.46	6.34
Lab6 (R1)	4.66	5.71	5.88	5.28	6.26
Lab6 (R2)	4.68	5.63	5.73	5.17	6.25

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	3.12	7.39	3.93	Gd 5.65	4.07
Lab1 (R2)	3.21	7.43	C 4.41	6.99	4.09
Lab2 (R1)	2.16	7.74	3.52	6.41	4.27
Lab2 (R2)	2.13	7.77	3.55	6.45	4.27
Lab3 (R1)	C 2.18	7.77	3.51	6.75	4.42
Lab3 (R2)	2.52	7.81	3.56	6.64	4.43
Lab4 (R1)	2.41	6.59	3.46	5.46	3.56
Lab4 (R2)	2.25	6.60	3.48	5.45	3.58
Lab5 (R1)	2.17	8.55	3.72	6.88	4.62
Lab5 (R2)	2.15	8.52	3.83	6.54	4.68
Lab6 (R1)	2.43	8.72	3.84	7.12	4.80
Lab6 (R2)	2.39	8.66	3.73	7.06	4.68

FID-He Rejected Data (3.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	4.69	5.64	5.68	5.14	6.27
Lab1 (R2)	4.71	5.62	5.67	5.17	6.31
Lab2 (R1)	4.82	5.76	5.85	5.44	6.53
Lab2 (R2)	4.80	5.67	5.80	5.43	6.41
Lab3 (R1)	4.84	5.70	5.79	5.20	6.44
Lab3 (R2)	4.68	5.44	5.85	5.39	6.42
Lab4 (R1)	4.67	5.54	5.76	5.28	6.37
Lab4 (R2)	4.69	5.55	5.79	5.24	6.40
Lab5 (R1)	4.60	5.51	5.65	5.10	6.23
Lab5 (R2)	4.67	5.53	5.65	5.12	6.23

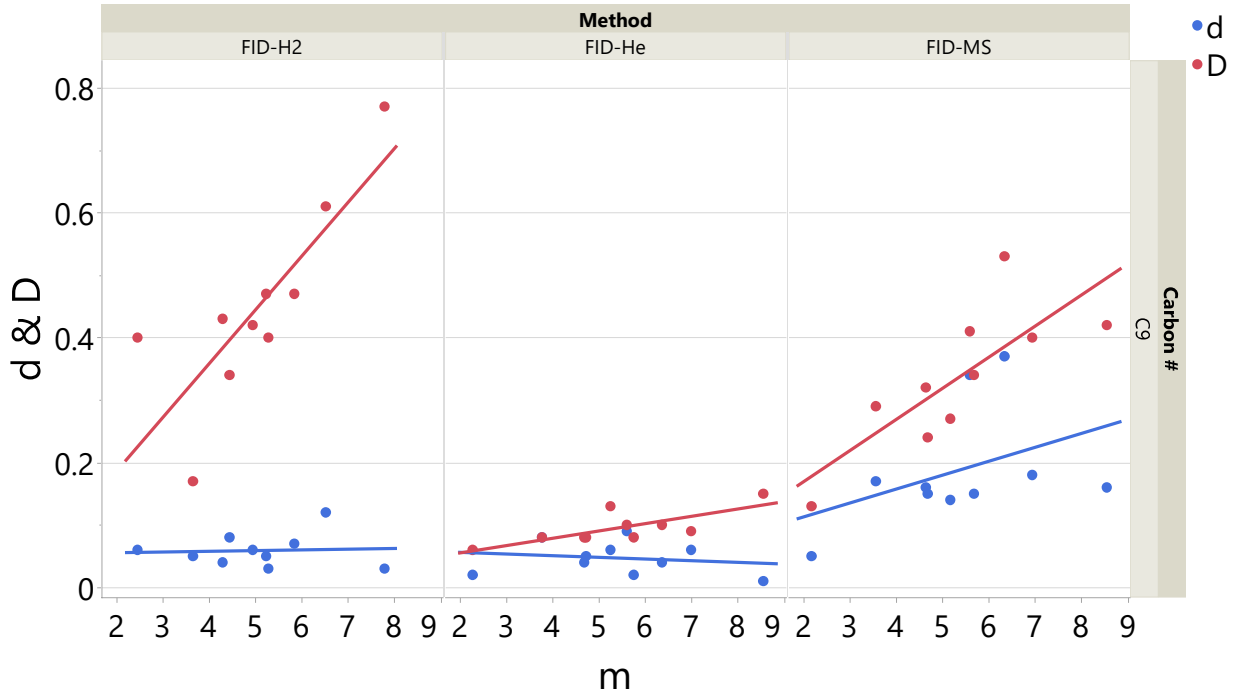
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	2.25	8.46	3.85	7.00	4.65
Lab1 (R2)	2.26	8.49	3.86	7.06	4.68
Lab2 (R1)	Gs 3.35	8.67	3.79	6.94	4.73
Lab2 (R2)	Gs 3.29	8.65	C 4.15	7.08	4.72
Lab3 (R1)	2.32	x	3.85	7.12	4.82
Lab3 (R2)	2.37	8.71	3.77	7.07	4.71
Lab4 (R1)	2.29	8.62	3.82	6.93	4.61
Lab4 (R2)	2.26	8.63	3.61	6.83	4.60
Lab5 (R1)	2.18	8.36	3.70	6.94	4.63
Lab5 (R2)	2.19	8.34	3.71	6.97	4.60

FID-MS Rejected Data (6.1%)

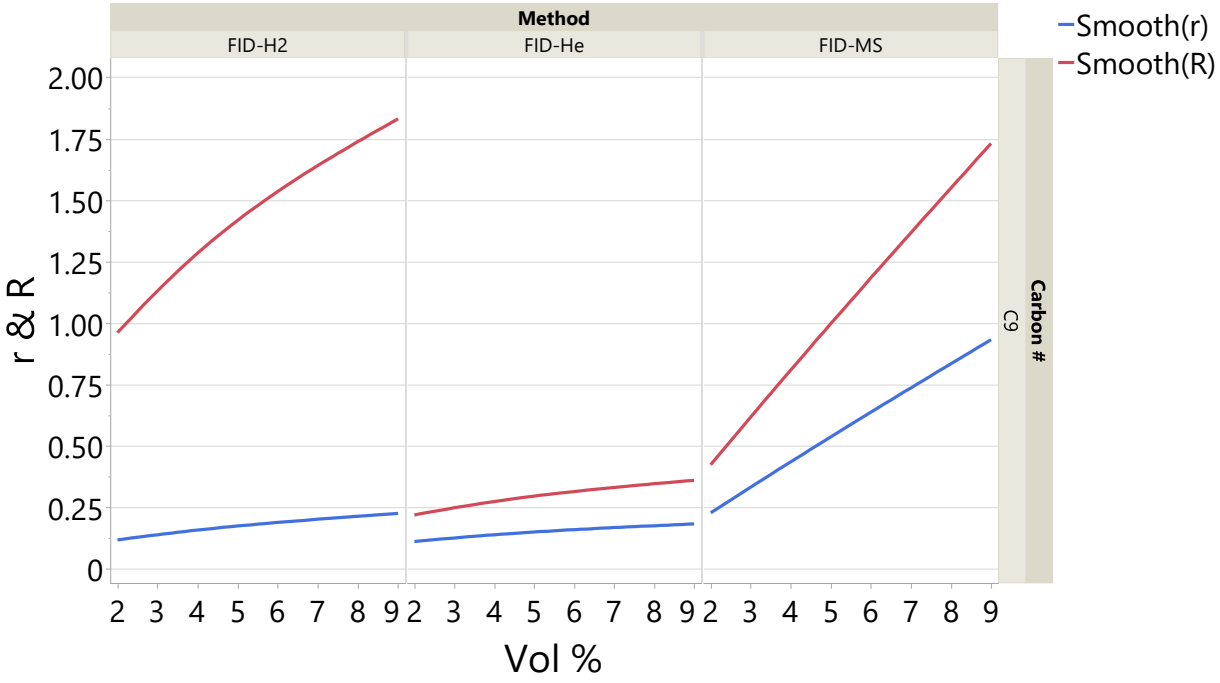
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	4.27	5.10	5.13	4.70	5.34
Lab1 (R2)	4.33	5.11	5.13	4.73	5.68
Lab2 (R1)	4.95	5.86	6.20	5.53	6.56
Lab2 (R2)	5.00	5.72	5.99	5.40	6.54
Lab3 (R1)	4.58	5.61	5.73	5.38	6.40
Lab3 (R2)	4.78	5.59	5.83	5.25	6.35
Lab4 (R1)	4.69	5.20	5.44	5.21	6.38
Lab4 (R2)	4.68	5.56	5.85	5.12	6.34
Lab5 (R1)	4.66	5.69	5.74	5.21	7.50
Lab5 (R2)	4.62	5.49	5.77	5.29	6.34
Lab6 (R1)	5.01	5.53	C 4.48	4.90	6.53
Lab6 (R2)	4.52	6.63	5.63	5.32	6.12
Lab7 (R1)	H 3.55	H 4.16	x	x	x
Lab7 (R2)	H	H 4.14	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	2.09	7.87	3.42	6.32	4.17
Lab1 (R2)	2.05	7.83	3.41	6.33	4.32
Lab2 (R1)	2.17	9.11	3.79	7.19	4.64
Lab2 (R2)	2.23	9.07	3.78	7.19	4.25
Lab3 (R1)	2.23	8.36	3.76	6.94	4.67
Lab3 (R2)	2.20	8.74	3.74	6.98	4.59
Lab4 (R1)	2.22	8.70	3.58	7.05	4.64
Lab4 (R2)	2.22	8.44	3.65	6.85	4.53
Lab5 (R1)	2.05	8.45	3.79	7.19	4.80
Lab5 (R2)	2.02	8.49	3.67	7.27	4.89
Lab6 (R1)	2.45	8.60	3.76	7.54	4.94
Lab6 (R2)	2.31	8.92	3.41	6.97	5.26
Lab7 (R1)	2.00	x	3.27	6.35	H 3.30
Lab7 (R2)	Gd 1.47	x	2.77	x	H

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

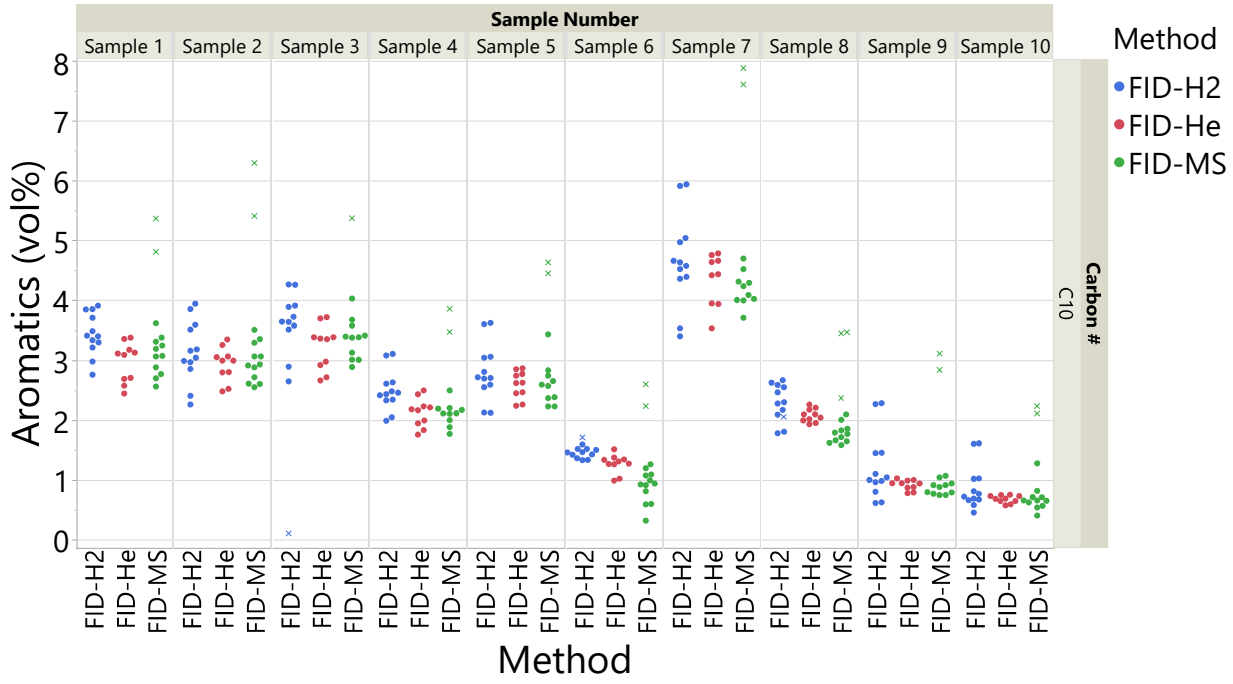


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.0870*(x^0.4329)	54	0.7067*(x^0.4329)	11	2-9	DF (R), F-test
FID-He	0.0880*(x^0.3330)	47	0.1734*(x^0.3330)	12	2-9	# Labs, DF (R), F-test
FID-MS	0.1189*(x^0.9373)	60	0.2207*(x^0.9373)	16	2-9	DF(R), F-test

C10 Aromatics

Plot of all methods raw data with "x" for rejected data.



FID-H2 Rejected Data (2.5%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	3.91	2.99	3.89	2.61	2.70
Lab1 (R2)	3.71	2.85	3.91	2.63	2.71
Lab2 (R1)	3.30	3.59	3.58	2.41	3.06
Lab2 (R2)	3.21	3.51	3.64	2.43	3.04
Lab3 (R1)	2.98	2.26	2.65	1.99	2.12
Lab3 (R2)	2.76	2.40	2.89	2.04	2.12
Lab4 (R1)	3.85	3.94	4.27	3.08	3.60
Lab4 (R2)	3.85	3.85	4.26	3.10	3.62
Lab5 (R1)	3.40	3.16	3.51	2.34	2.69
Lab5 (R2)	3.33	3.18	Gd 0.11	2.48	2.80
Lab6 (R1)	3.41	3.04	3.73	2.46	2.59
Lab6 (R2)	3.48	2.97	3.65	2.33	2.55

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	C 1.71	4.63	C 2.05	1.10	0.67
Lab1 (R2)	1.33	4.66	2.46	0.98	0.72
Lab2 (R1)	1.47	4.97	2.55	1.45	1.02
Lab2 (R2)	1.52	5.04	2.62	1.45	1.02
Lab3 (R1)	1.46	3.40	1.78	0.63	0.58
Lab3 (R2)	1.59	3.53	1.80	0.62	0.46
Lab4 (R1)	1.50	5.93	2.67	2.27	1.60
Lab4 (R2)	1.52	5.91	2.59	2.28	1.61
Lab5 (R1)	1.36	4.58	2.30	1.04	0.81
Lab5 (R2)	1.33	4.52	2.28	1.00	0.77
Lab6 (R1)	1.42	4.36	2.17	0.96	0.69
Lab6 (R2)	1.42	4.39	2.09	0.80	0.66

FID-He Rejected Data (0.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	3.09	3.06	3.36	2.21	2.74
Lab1 (R2)	3.11	3.05	3.35	2.23	2.77
Lab2 (R1)	3.35	3.35	3.72	2.49	2.87
Lab2 (R2)	3.37	3.25	3.70	2.43	2.85
Lab3 (R1)	2.57	2.52	2.66	1.75	2.26
Lab3 (R2)	2.44	2.48	2.71	1.83	2.24
Lab4 (R1)	2.69	2.80	2.92	1.99	2.45
Lab4 (R2)	2.70	2.80	2.97	1.94	2.46
Lab5 (R1)	3.12	2.99	3.38	2.17	2.62
Lab5 (R2)	3.17	2.99	3.38	2.18	2.63

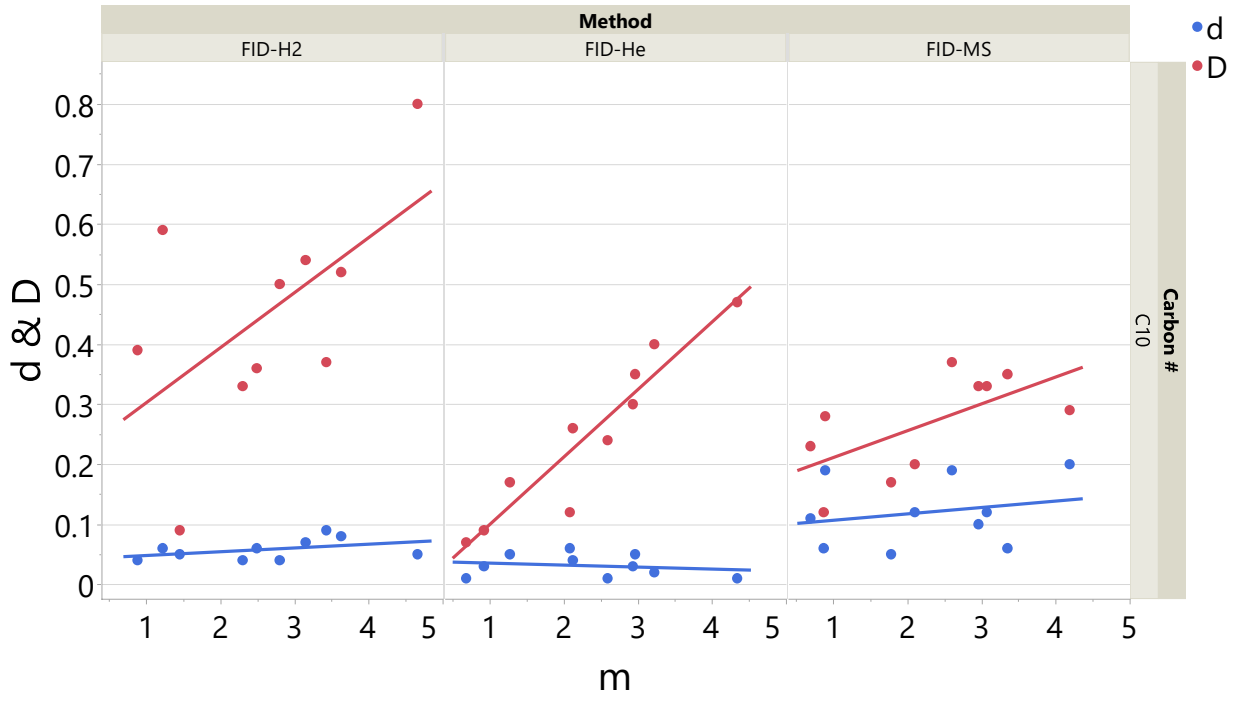
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.99	4.64	1.93	0.99	0.73
Lab1 (R2)	1.02	4.66	1.95	1.00	0.73
Lab2 (R1)	1.37	4.78	2.26	0.94	0.75
Lab2 (R2)	1.51	4.75	2.21	1.03	0.75
Lab3 (R1)	1.27	x	2.04	0.79	0.59
Lab3 (R2)	1.27	3.53	1.99	0.78	0.58
Lab4 (R1)	1.34	3.95	2.17	0.88	0.65
Lab4 (R2)	1.33	3.94	2.02	0.87	0.65
Lab5 (R1)	1.31	4.44	2.10	0.94	0.69
Lab5 (R2)	1.26	4.42	2.10	0.94	0.69

FID-MS Rejected Data (15.5%)

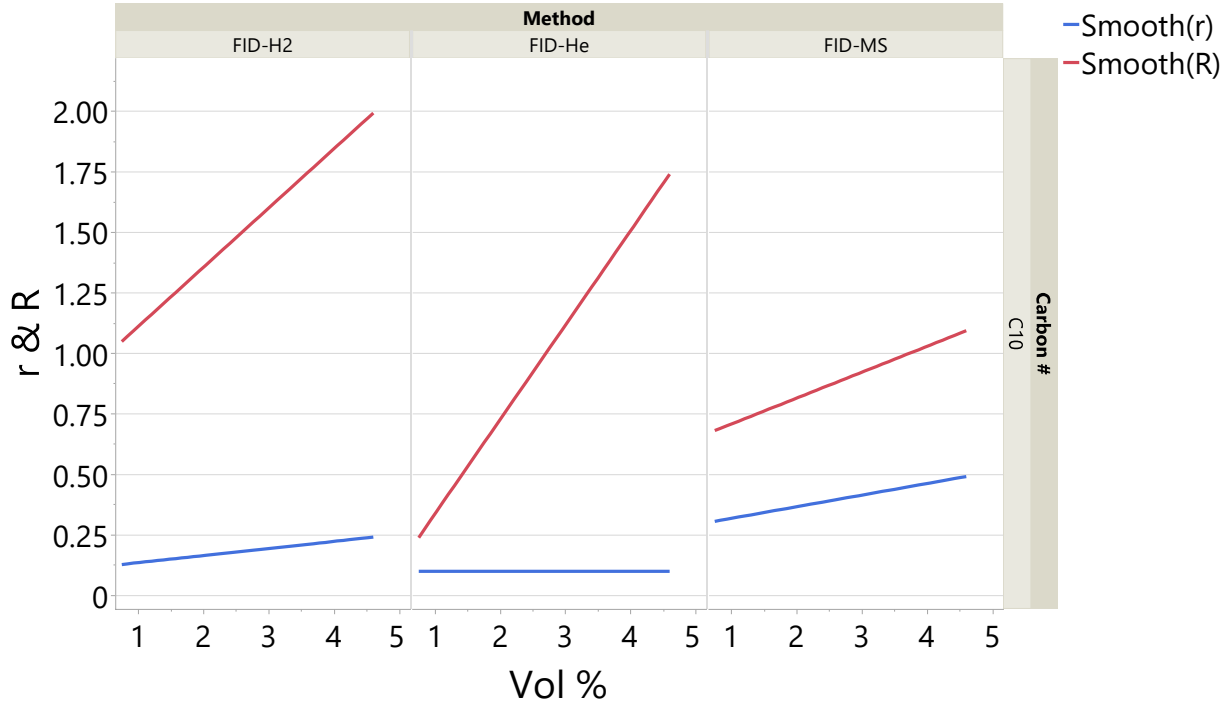
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	2.70	2.60	3.01	1.88	2.23
Lab1 (R2)	2.88	2.71	3.13	1.77	2.23
Lab2 (R1)	2.56	2.61	3.01	2.10	2.38
Lab2 (R2)	2.77	2.55	2.88	2.11	2.36
Lab3 (R1)	3.19	2.88	3.39	2.17	2.57
Lab3 (R2)	3.24	2.91	3.37	2.00	2.59
Lab4 (R1)	3.07	2.93	3.41	2.11	2.74
Lab4 (R2)	3.06	3.06	3.38	2.19	2.65
Lab5 (R1)	3.62	3.29	3.58	2.20	3.43
Lab5 (R2)	3.38	3.06	3.67	2.49	2.83
Lab6 (R1)	H 5.36	Gs 5.41	4.03	Gs 3.47	H 4.63
Lab6 (R2)	H 4.81	Gs 6.30	Gd 5.37	Gs 3.86	H 4.45
Lab7 (R1)	3.31	3.35	x	x	x
Lab7 (R2)	x	3.51	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	1.08	4.00	1.71	0.79	0.57
Lab1 (R2)	1.09	3.71	1.79	0.88	0.63
Lab2 (R1)	0.59	4.02	1.58	0.75	0.40
Lab2 (R2)	0.60	4.00	1.64	0.75	0.71
Lab3 (R1)	1.20	4.09	1.77	0.91	0.66
Lab3 (R2)	0.93	4.29	1.83	0.91	0.66
Lab4 (R1)	0.32	4.52	1.62	0.77	0.54
Lab4 (R2)	0.81	4.31	1.66	0.94	0.65
Lab5 (R1)	0.99	4.24	2.00	1.04	0.71
Lab5 (R2)	0.91	4.70	2.09	1.07	0.82
Lab6 (R1)	H 2.60	Gs 7.60	Gs 3.45	Gs 3.11	H 2.11
Lab6 (R2)	H 2.23	Gs 7.88	Gs 3.46	Gs 2.84	H 2.23
Lab7 (R1)	0.94	x	1.85	0.79	1.28
Lab7 (R2)	1.26	x	Gd 2.37	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

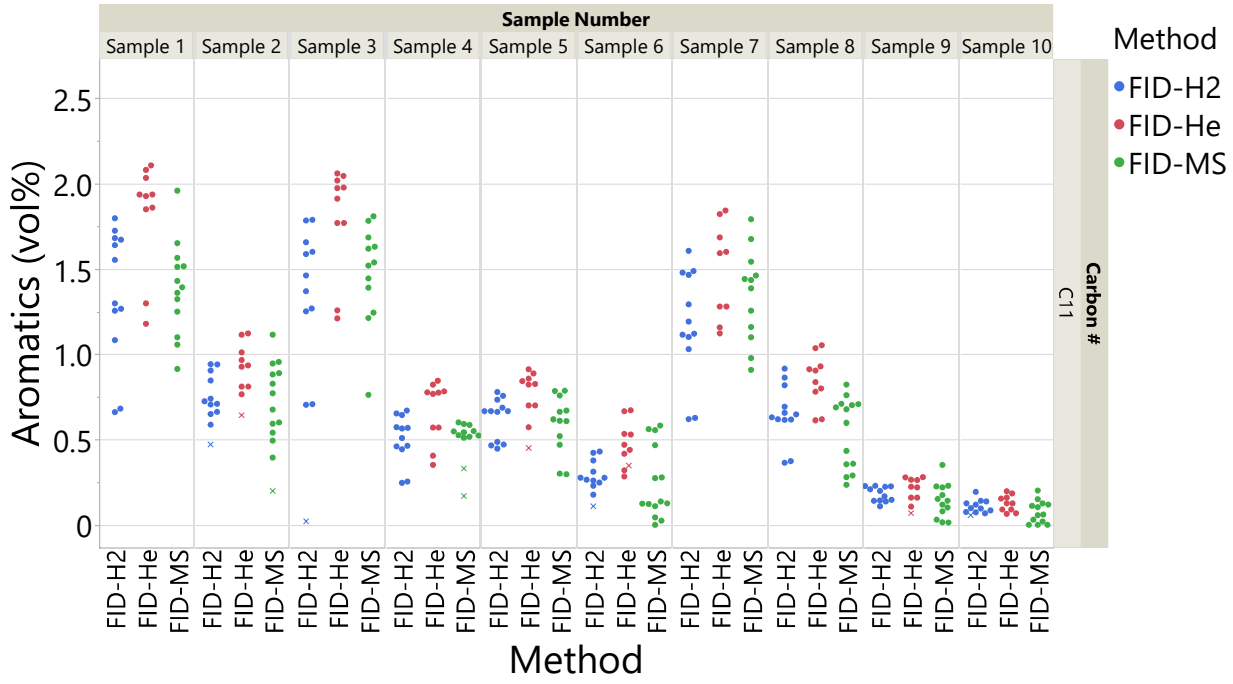


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.0294*(x+3.5206)	57	0.2453*(x+3.5206)	9	0.5-5.0	DF (R), F-test
FID-He	0.0966	49	0.3899*(x-0.1409)	9	0.5-5.0	# Labs, DF (R), F-test
FID-MS	0.0481*(x+5.5797)	52	0.1073*(x+5.5797)	18	0.5-5.0	DF(R), Rejected %, F-test

C11 Aromatics

Plot of all methods raw data with “x” for rejected data.



FID-H2 Rejected Data (3.3%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.66	Gd 0.47	0.71	0.25	0.47
Lab1 (R2)	0.68	0.94	0.70	0.25	0.45
Lab2 (R1)	1.64	0.72	1.59	0.57	0.73
Lab2 (R2)	1.68	0.65	1.46	0.57	0.69
Lab3 (R1)	1.25	0.70	1.25	0.46	0.67
Lab3 (R2)	1.08	0.71	1.27	0.51	0.66
Lab4 (R1)	1.80	0.94	1.78	0.67	0.78
Lab4 (R2)	1.72	0.90	1.79	0.65	0.76
Lab5 (R1)	1.27	0.66	1.37	0.46	0.49
Lab5 (R2)	1.30	0.59	Gd 0.02	0.44	0.47
Lab6 (R1)	1.67	0.85	1.60	0.64	0.67
Lab6 (R2)	1.55	0.74	1.66	0.57	0.67

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.26	0.62	0.37	0.23	0.19
Lab1 (R2)	0.23	0.63	0.36	0.23	0.14
Lab2 (R1)	0.28	1.11	0.63	0.15	0.10
Lab2 (R2)	0.25	1.10	0.66	0.14	0.10
Lab3 (R1)	0.27	1.29	0.61	0.23	C 0.06
Lab3 (R2)	0.18	1.19	0.62	0.22	0.14
Lab4 (R1)	0.43	1.47	0.92	0.20	0.13
Lab4 (R2)	0.42	1.49	0.86	0.21	0.12
Lab5 (R1)	C 0.11	1.12	0.62	0.11	0.09
Lab5 (R2)	0.28	1.03	0.65	0.14	0.07
Lab6 (R1)	0.38	1.48	0.82	0.17	0.08
Lab6 (R2)	0.31	1.61	0.69	0.14	0.07

FID-He Rejected Data (4.0%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	1.85	0.81	1.77	0.57	0.70
Lab1 (R2)	1.86	0.81	1.77	0.57	0.70
Lab2 (R1)	1.30	0.77	1.21	0.35	C 0.45
Lab2 (R2)	1.18	C 0.64	1.26	0.41	0.57
Lab3 (R1)	2.03	0.97	1.97	0.82	0.91
Lab3 (R2)	1.94	1.01	2.06	0.84	0.89
Lab4 (R1)	1.93	0.93	1.91	0.78	0.82
Lab4 (R2)	1.94	0.94	1.98	0.77	0.83
Lab5 (R1)	2.08	1.12	2.02	0.78	0.84
Lab5 (R2)	2.11	1.11	2.05	0.78	0.86

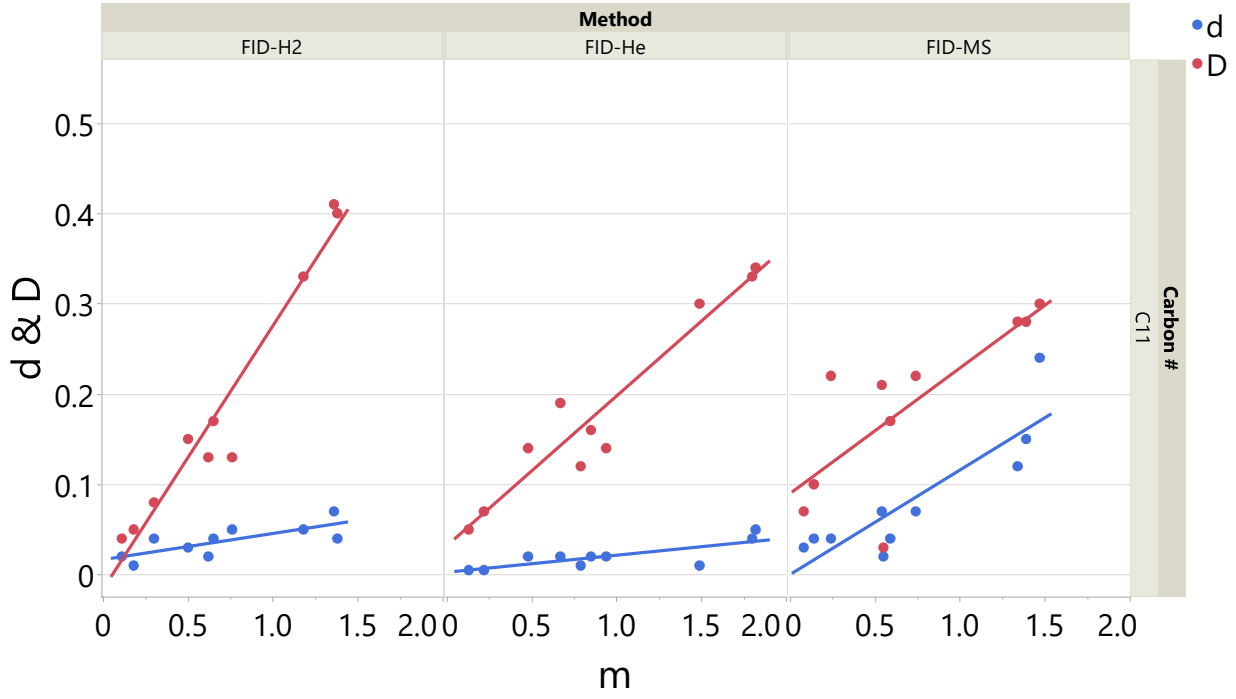
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.44	1.28	0.80	0.16	0.09
Lab1 (R2)	0.47	1.28	0.78	0.16	0.09
Lab2 (R1)	0.28	1.12	0.62	Gd 0.07	0.07
Lab2 (R2)	0.32	1.16	0.61	0.11	0.07
Lab3 (R1)	0.42	x	0.93	0.28	0.18
Lab3 (R2)	C 0.35	1.69	0.91	0.28	0.20
Lab4 (R1)	0.53	1.60	0.90	0.22	0.13
Lab4 (R2)	0.53	1.59	0.84	0.22	0.13
Lab5 (R1)	0.67	1.84	1.04	0.26	0.15
Lab5 (R2)	0.67	1.82	1.05	0.26	0.16

FID-MS Rejected Data (2.3%)

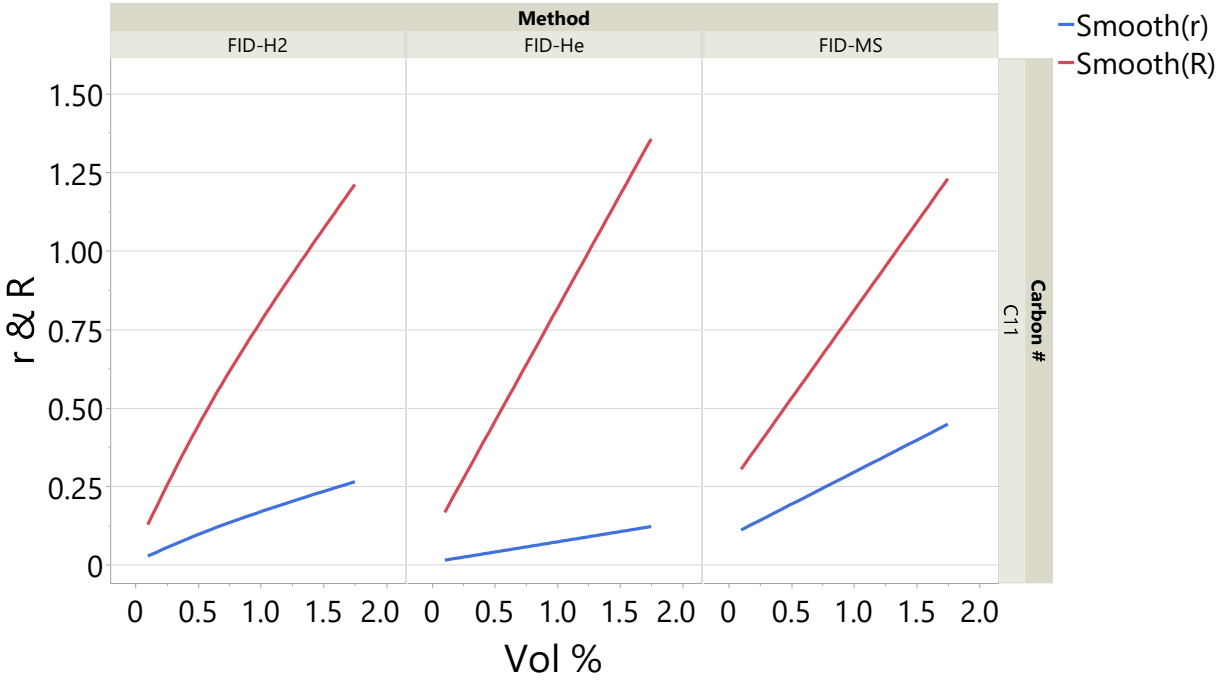
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	1.43	0.83	1.44	0.53	0.61
Lab1 (R2)	1.32	0.95	1.63	0.52	0.62
Lab2 (R1)	0.91	0.49	1.24	0.54	0.30
Lab2 (R2)	1.10	0.39	0.76	0.51	0.30
Lab3 (R1)	1.52	0.89	1.69	0.59	0.79
Lab3 (R2)	1.39	0.88	1.62	0.60	0.76
Lab4 (R1)	1.25	C 0.20	1.39	Gs 0.17	0.52
Lab4 (R2)	1.36	0.60	1.52	Gs 0.33	0.47
Lab5 (R1)	1.65	0.77	1.54	0.55	0.79
Lab5 (R2)	1.57	0.68	1.81	0.55	0.66
Lab6 (R1)	1.96	0.95	1.21	0.52	0.67
Lab6 (R2)	1.51	1.11	1.78	0.59	0.61
Lab7 (R1)	1.06	0.59	x	x	x
Lab7 (R2)	x	0.54	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.55	1.44	0.76	0.23	0.12
Lab1 (R2)	0.58	1.26	0.71	0.35	0.15
Lab2 (R1)	0.27	0.98	0.43	0.02	0.00
Lab2 (R2)	0.28	0.91	0.24	0.01	0.00
Lab3 (R1)	0.14	1.46	0.60	0.23	0.11
Lab3 (R2)	0.13	1.39	0.70	0.22	0.13
Lab4 (R1)	0.00	1.16	0.28	0.03	0.00
Lab4 (R2)	0.11	1.10	0.29	0.08	0.02
Lab5 (R1)	0.12	1.68	0.69	0.14	0.20
Lab5 (R2)	0.12	1.44	0.68	0.17	0.10
Lab6 (R1)	0.56	1.54	0.71	0.15	0.06
Lab6 (R2)	0.47	1.79	0.82	0.12	0.06
Lab7 (R1)	0.04	x	0.36	0.10	0.03
Lab7 (R2)	0.03	x	0.36	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.

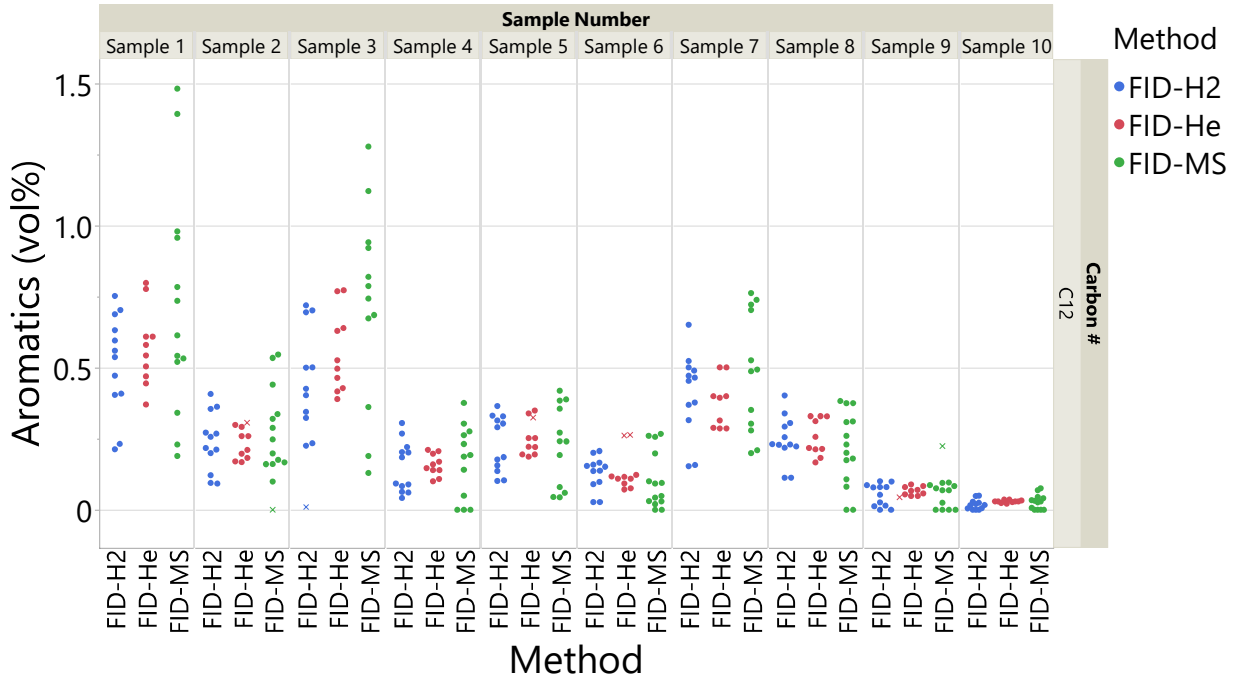


All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.1690*(x^0.7991)	56	0.7734*(x^0.7991)	24	0.1-2.0	DF (R), F-test
FID-He	0.0646*(x+0.1322)	45	0.7203*(x+0.1322)	5	0.1-2.0	# Labs, DF (R), F-test
FID-MS	0.2042*(x+0.4425)	61	0.5606*(x+0.4425)	18	0.1-2.0	DF(R), F-test

C12 Aromatics

Plot of all methods raw data with "x" for rejected data.



FID-H2 Rejected Data (0.8%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.56	0.36	0.50	0.22	0.29
Lab1 (R2)	0.54	0.26	0.50	0.18	0.30
Lab2 (R1)	0.23	0.09	0.23	0.06	0.16
Lab2 (R2)	0.21	0.09	0.40	0.06	0.14
Lab3 (R1)	0.60	0.21	0.32	0.09	0.10
Lab3 (R2)	0.41	0.20	0.34	0.09	0.10
Lab4 (R1)	0.75	0.27	0.70	0.20	0.33
Lab4 (R2)	0.69	0.27	0.70	0.20	0.31
Lab5 (R1)	0.70	0.36	0.72	0.27	0.37
Lab5 (R2)	0.63	0.41	Gd 0.01	0.31	0.33
Lab6 (R1)	0.41	0.12	0.23	0.08	0.19
Lab6 (R2)	0.47	0.22	0.43	0.04	0.18

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.21	0.49	0.23	0.10	0.02
Lab1 (R2)	0.17	0.50	0.22	0.08	0.02
Lab2 (R1)	0.03	0.15	0.11	0.01	0.01
Lab2 (R2)	0.03	0.16	0.11	0.01	0.01
Lab3 (R1)	0.14	0.45	0.23	0.00	0.00
Lab3 (R2)	0.14	0.32	0.22	0.00	0.00
Lab4 (R1)	0.20	0.47	0.34	0.09	0.05
Lab4 (R2)	0.15	0.47	0.31	0.08	0.05
Lab5 (R1)	0.15	0.65	0.29	0.08	0.02
Lab5 (R2)	0.16	0.52	0.40	0.10	0.03
Lab6 (R1)	0.09	0.38	0.23	0.05	0.00
Lab6 (R2)	0.10	0.37	0.26	0.03	0.02

FID-He Rejected Data (5.1%)

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.61	0.26	0.64	0.16	0.34
Lab1 (R2)	0.61	0.26	0.63	0.17	0.35
Lab2 (R1)	0.37	0.18	0.47	0.20	Gd 0.33
Lab2 (R2)	0.51	Gd 0.31	0.39	0.14	0.19
Lab3 (R1)	0.58	0.20	0.50	0.15	0.20
Lab3 (R2)	0.54	0.21	0.53	0.14	0.20
Lab4 (R1)	0.47	0.17	0.42	0.11	0.22
Lab4 (R2)	0.45	0.17	0.43	0.10	0.22
Lab5 (R1)	0.78	0.30	0.77	0.21	0.25
Lab5 (R2)	0.80	0.29	0.77	0.21	0.25

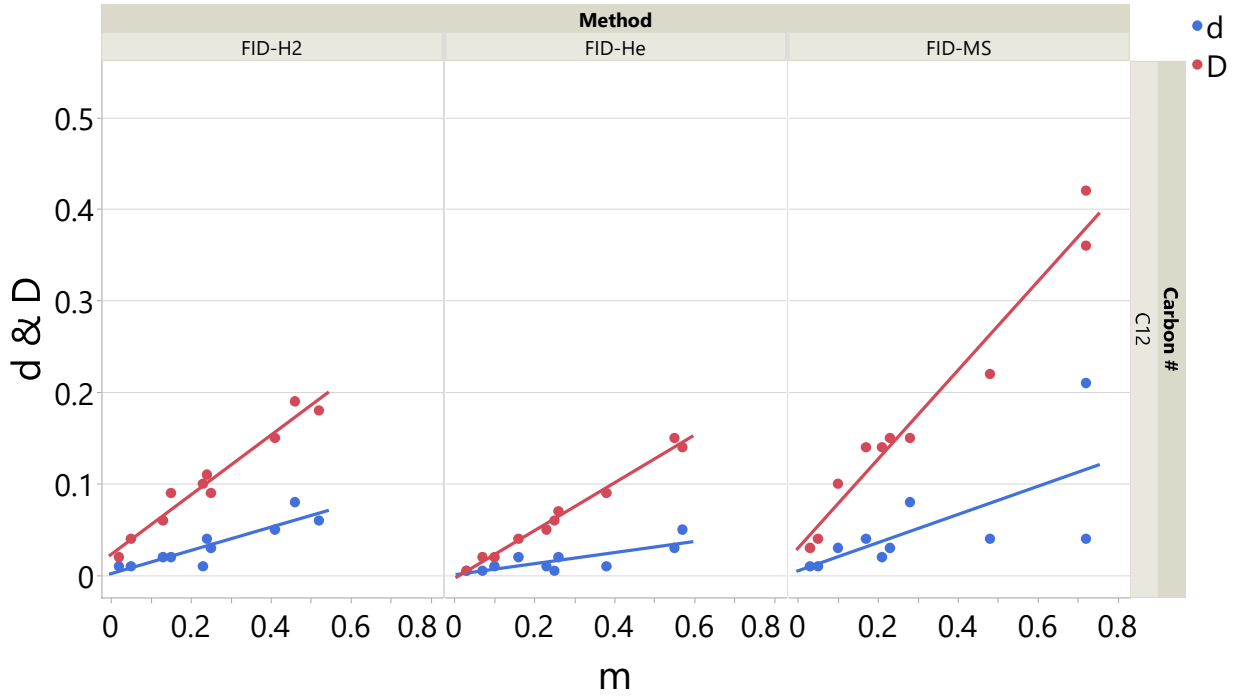
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.11	0.40	0.33	0.08	0.03
Lab1 (R2)	0.11	0.40	0.33	0.09	0.03
Lab2 (R1)	0.12	0.32	0.26	C 0.04	0.04
Lab2 (R2)	0.12	0.29	0.21	0.08	0.04
Lab3 (R1)	0.12	x	0.22	0.05	0.03
Lab3 (R2)	0.09	0.40	0.21	0.05	0.02
Lab4 (R1)	0.08	0.29	0.18	0.06	0.02
Lab4 (R2)	0.07	0.29	0.17	0.06	0.03
Lab5 (R1)	H 0.26	0.50	0.31	0.07	0.03
Lab5 (R2)	H 0.26	0.50	0.33	0.07	0.03

FID-MS Rejected Data (2.3%)

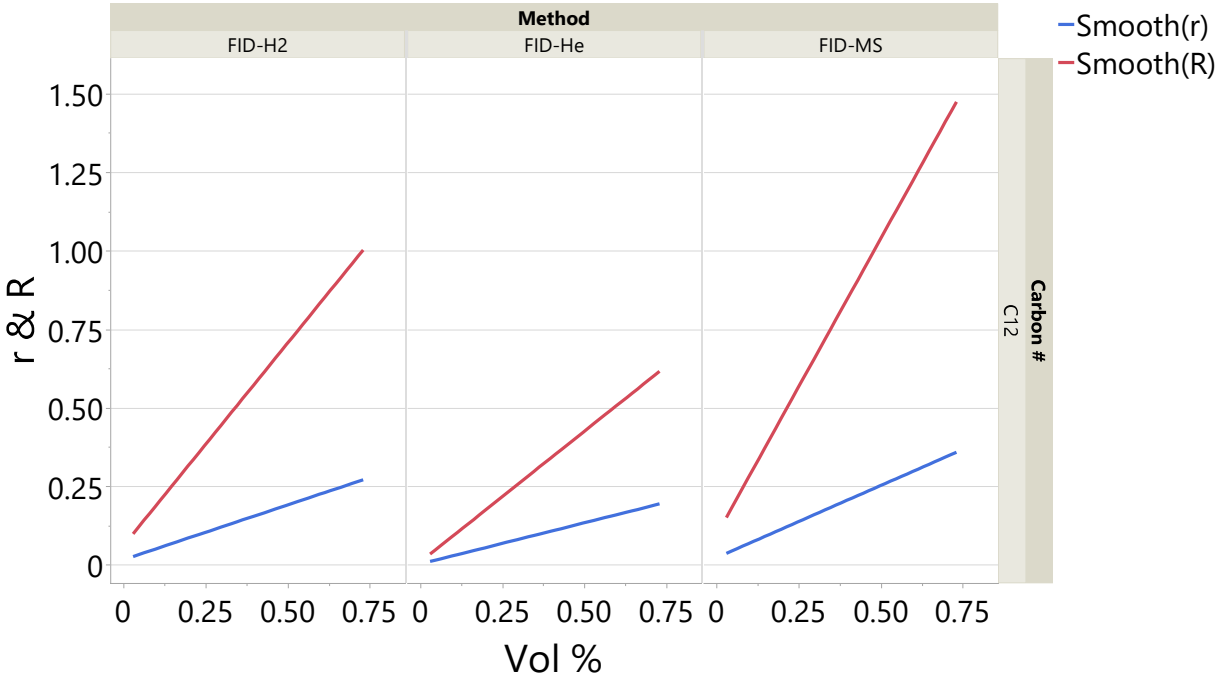
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	0.53	0.29	0.79	0.14	0.19
Lab1 (R2)	0.61	0.54	0.92	0.19	0.27
Lab2 (R1)	0.54	0.17	0.36	0.00	0.05
Lab2 (R2)	0.52	0.16	0.82	0.00	0.04
Lab3 (R1)	0.74	0.20	0.69	0.23	0.24
Lab3 (R2)	0.79	0.25	0.67	0.19	0.24
Lab4 (R1)	0.23	C 0.00	0.19	0.00	0.08
Lab4 (R2)	0.19	0.10	0.13	0.05	0.06
Lab5 (R1)	0.98	0.34	1.12	0.38	0.42
Lab5 (R2)	0.96	0.32	0.94	0.26	0.39
Lab6 (R1)	1.48	0.44	0.74	0.28	0.39
Lab6 (R2)	1.39	0.55	1.28	0.30	0.36
Lab7 (R1)	0.34	0.18	x	x	x
Lab7 (R2)	x	0.16	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	0.27	0.49	0.31	0.10	0.03
Lab1 (R2)	0.26	0.35	0.26	Gd 0.22	0.04
Lab2 (R1)	0.09	0.30	0.11	0.00	0.00
Lab2 (R2)	0.09	0.28	0.08	0.00	0.00
Lab3 (R1)	0.04	0.53	0.20	0.08	0.03
Lab3 (R2)	0.03	0.49	0.23	0.07	0.03
Lab4 (R1)	0.00	0.21	0.00	0.00	0.00
Lab4 (R2)	0.00	0.20	0.00	0.00	0.00
Lab5 (R1)	0.05	0.76	0.38	0.08	0.07
Lab5 (R2)	0.02	0.74	0.31	0.09	0.05
Lab6 (R1)	0.26	0.70	0.38	0.09	0.03
Lab6 (R2)	0.20	0.72	0.38	0.07	0.08
Lab7 (R1)	0.10	x	0.18	0.03	0.01
Lab7 (R2)	0.03	x	0.17	x	x

All methods repeats standard deviation (d) and labs standard deviation (D) vs. sample mean (m).



All methods repeatability and reproducibility by volume percent.



All methods repeatability and reproducibility, volume % range, and validity problems.

Method	Repeatability (r)	DF (r)	Reproducibility (R)	DF (R)	Approx. Vol % Range	Validity Problems
FID-H2	0.3488*(x+0.0468)	59	1.2907*(x+0.0468)	9	0.05-0.75	DF (R), F-test
FID-He	0.2617*(x-0.0109)	45	0.8314*(x-0.0109)	11	0.05-0.75	# Labs, DF (R), F-test
FID-MS	0.4596*(x+0.0499)	61	1.8894*(x+0.0499)	11	0.05-0.75	DF(R), F-test

APPENDIX D – EXAMPLE ILS EVALUATOR OUTPUT, TOTAL AROMATICS, FID-MS

2/2/2026 2:37 PM

Determination of precision data in relation to methods and test
ISO-4259-1

ILS Evaluator
by ROFA Laboratory & Process Analyzers
Software Version 1.2.10.0
Date: 2/2/2026 2:37 PM

Title:
Data File: ROFA_FID-MS_TotalArom_Vol%.xlsx
Comment:

Reproducibility (R) and Repeatability (r):

r (Repeatability):	0.1204*(x^0.6969)	(DF=55)
R (Reproducibility):	0.3214*(x^0.6969)	(DF=55)

Samples and Laboratories:

	Initial	Final
Number of laboratories	7	7
Number of samples	10	10

Validity check:

R/r:	2.67	(<=4)
S/N (x/r):	15.47 - 26.63	(>=3)
Samples:	10	(>=6)
Laboratories:	7	(>=6)
Samples x Labs:	70	(>=42)
DF (r):	55	(>=30)
DF (R):	55	(>=30)
Max. leverage:	0.60 (Sample6)	(<0,5)
Max. Cook's Distance:	0.38 (Sample6)	
Rejected [%]:	7.8	(<=10)
Missing [%]:	7.9	

Variance Analysis:
Transformation Model: Power Model

	Estimated SSQ	Exact SSQ	DF	Mean SSQ
Sample Means	16.57	15.19		
Lab Means	0.03	0.03	6	0.00
Interaction	0.09		48	0.00
Pairs	16.70	15.31		
Repeats	0.01		55	0.00
Total	16.71			

	F	F critical	
MSSQ(Lab) / MSSQ(Interaction)	2.24	2.29	Ok

Expectation of Mean Square

	v(r)	v(I)	v(L)
Lab means	1.13	2.00	18.00
Interaction	1.14	2.00	

	v(r)	v(l)	v(L)
Repeats	1.00		

Transformed Data:

	Variance	DF	t-Value	Precision
r (Repeatability):	0.0003	55	2.0040	0.0365
R (Reproducibility):	0.0024	55	2.0040	0.0974

Missing Values:

Sample	Laboratory	Repeat
Sample1	Lab7	2
Sample3	Lab7	1
Sample3	Lab7	2
Sample4	Lab7	1
Sample4	Lab7	2
Sample5	Lab7	1
Sample5	Lab7	2
Sample7	Lab7	1
Sample7	Lab7	2
Sample9	Lab7	2
Sample10	Lab7	2

GESD rejections (6.2% of reported / 5.7% of total):

Sample	Laboratory	Repeat
Sample1	Lab6	1
Sample2	Lab6	1
Sample6	Lab6	1
Sample8	Lab6	1
Sample3	Lab6	2
Sample4	Lab6	2
Sample6	Lab6	2
Sample8	Lab6	2

Cochran's rejections (1.6% of reported / 1.4% of total):

Sample	Laboratory	Repeat
Sample5	Lab5	1
Sample7	Lab6	1

Hawkin's rejections (0.0% of reported / 0.0% of total):
none

Variance test rejections (0.0% of reported / 0.0% of total):
none

Hawkin's (Labs) rejections (0.0% of reported / 0.0% of total):
none

Cook's distance rejections (0.0% of reported / 0.0% of total):
none

Untransformed Data:

Sample	Res.	m	D	DF(D)	R	d	DF(d)	r
Sample1	12	20.00	1.06	6	3.68	0.25	5	0.90
Sample2	13	36.73	1.34	6	4.63	0.31	6	1.08
Sample3	11	23.29	1.01	5	3.69	0.27	5	0.96
Sample4	11	20.91	0.73	5	2.65	0.22	5	0.80
Sample5	11	24.21	1.46	5	5.30	0.35	5	1.29
Sample6	12	8.36	0.37	8	1.22	0.25	6	0.87
Sample7	11	32.42	1.10	6	3.79	0.42	5	1.53
Sample8	12	14.99	0.52	5	1.91	0.14	6	0.50
Sample9	13	45.08	1.09	12	3.37	1.01	6	3.50
Sample10	13	29.31	0.77	10	2.43	0.55	6	1.91

Linear Regression Untransformed Data: d,D = K(m+B)

	B	K	K Std Error	t-Ratio	Sig.(%)
D	0.42	0.02	0.01	2.40	4.34
d	-0.09	0.02	0.01	3.57	0.73

D independent from m (B=0): No
d independent from m (B=0): No

Transformation Model:
Power Model

Iterations: 2

Fit: d,D = K*m^B

	K	B	B0	r
D	0.18	0.52	0.00	0.06
d	0.00	1.64	0.00	0.02

Weighted Linear Regression:

	Value	Test	Std.Error	t-Ratio	Sig.(%)
b0	-2.68				
b1	0.70	=0	0.16	4.38	0.05
b2	0.44		0.34	1.31	
b3	-0.04	=0	0.11	0.39	70.02

b1<>0: Yes
b3=0 (D and d same transformation): Yes

Transformation: y=x^(1-B)
B=0.70

Transformed Data:

Sample	Res.	m	D	DF(D)	R	d	DF(d)	r
Sample1	12	2.48	0.04	6	0.14	0.01	5	0.03
Sample2	13	2.98	0.03	6	0.12	0.01	6	0.03
Sample3	11	2.60	0.03	5	0.13	0.01	5	0.03
Sample4	11	2.51	0.03	5	0.10	0.01	5	0.03
Sample5	11	2.63	0.05	5	0.17	0.01	5	0.04
Sample6	12	1.90	0.03	8	0.08	0.02	6	0.06
Sample7	11	2.87	0.03	6	0.10	0.01	5	0.04

Sample	Res.	m	D	DF(D)	R	d	DF(d)	r
Sample8	12	2.27	0.02	5	0.09	0.01	6	0.02
Sample9	13	3.17	0.02	12	0.07	0.02	6	0.07
Sample10	13	2.78	0.02	9	0.07	0.02	6	0.05

Linear Regression Transformed Data: d,D = K(m+B)

	B	K	K Std Error	t-Ratio	Sig.(%)
D	0.03	0.00	0.01	0.02	98.71
d	0.01	0.00	0.00	0.52	61.60

D independent from m (B=0): Yes
d independent from m (B=0): Yes

Estimated Values:

Sample	Laboratory	Repeat	Value
Sample1	Lab6	1	2.56
Sample1	Lab7	2	2.42
Sample2	Lab6	1	2.89
Sample3	Lab6	2	2.52
Sample3	Lab7	1	2.57
Sample3	Lab7	2	2.57
Sample4	Lab6	2	2.48
Sample4	Lab7	1	2.49
Sample4	Lab7	2	2.49
Sample5	Lab5	1	2.62
Sample5	Lab7	1	2.60
Sample5	Lab7	2	2.60
Sample6	Lab6	1	1.92
Sample6	Lab6	2	1.92
Sample7	Lab6	1	2.93
Sample7	Lab7	1	2.85
Sample7	Lab7	2	2.85
Sample8	Lab6	1	2.28
Sample8	Lab6	2	2.28
Sample9	Lab7	2	3.16
Sample10	Lab7	2	2.75

Original Data:
x: missing
Gd: GESD (diff) rejection
Gs: GESD (sum) rejection
C: Cochran's rejection
H: Hawkin's rejection
V: Variance test (sample) rejection
L: Hawkin's (laboratory) rejection
D: Cook's distance rejection

	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	18.89	35.97	22.38	19.92	22.23
Lab1 (R2)	19.23	36.31	22.52	20.04	22.54
Lab2 (R1)	19.70	38.23	24.20	21.92	23.97
Lab2 (R2)	20.16	37.61	23.55	21.59	23.90
Lab3 (R1)	20.38	37.67	23.99	21.77	24.52
Lab3 (R2)	20.61	37.67	24.12	21.24	24.52
Lab4 (R1)	19.52	36.86	22.93	20.73	23.82
Lab4 (R2)	19.57	37.20	23.38	20.69	23.64
Lab5 (R1)	20.78	37.42	23.91	20.88	C 28.24
Lab5 (R2)	20.30	36.69	24.12	21.16	23.94
Lab6 (R1)	Gd 26.89	Gd 41.92	21.12	20.11	27.12
Lab6 (R2)	22.35	33.07	Gd 26.61	Gd 23.12	26.06
Lab7 (R1)	18.45	36.33	x	x	x
Lab7 (R2)	x	36.40	x	x	x

	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	8.85	31.47	14.41	43.84	28.22
Lab1 (R2)	8.80	30.85	14.36	44.26	28.88
Lab2 (R1)	8.58	33.16	14.71	46.45	29.72
Lab2 (R2)	8.72	33.02	14.59	46.57	29.37
Lab3 (R1)	8.69	31.92	15.38	45.14	29.43
Lab3 (R2)	8.00	32.70	15.80	43.51	29.18
Lab4 (R1)	8.04	32.58	14.82	45.46	29.24
Lab4 (R2)	8.34	31.76	15.03	44.76	28.84
Lab5 (R1)	8.05	32.04	15.68	45.38	29.45
Lab5 (R2)	7.78	32.32	15.58	45.76	29.81
Lab6 (R1)	Gs 11.88	C 38.12	Gs 19.09	43.70	31.18
Lab6 (R2)	Gs 11.18	34.84	Gs 18.21	46.66	29.52
Lab7 (R1)	8.39	x	14.71	44.62	28.19
Lab7 (R2)	8.08	x	14.78	x	x

Original Data:

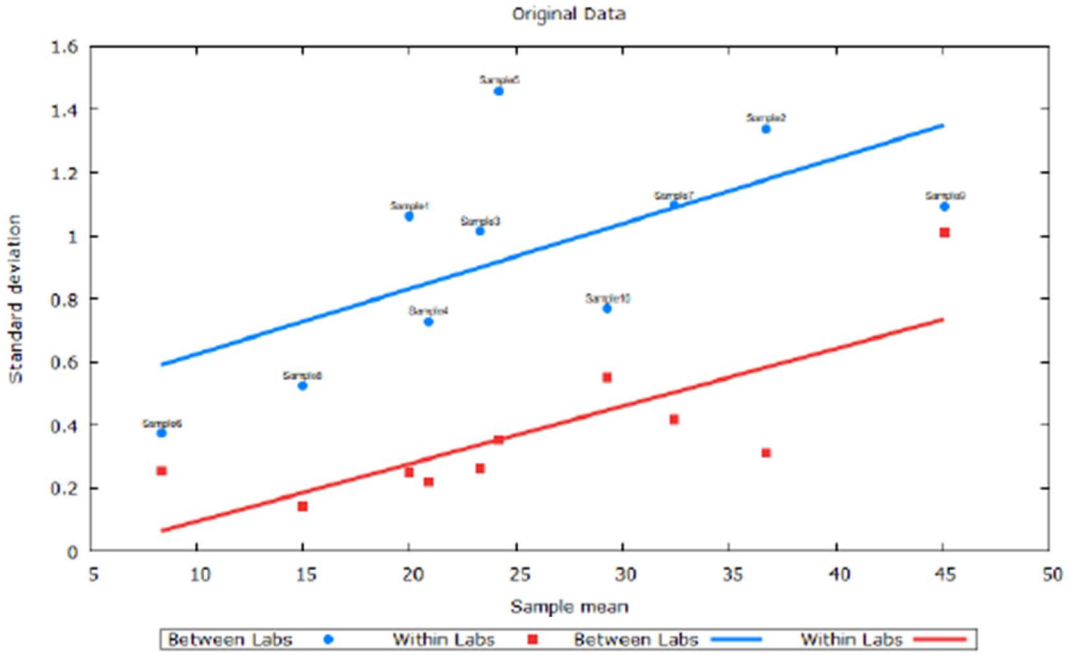
Sample	Res.	m	D	DF(D)	R	d	DF(d)	r
Sample1	13	20.53	2.20	8	7.18	1.33	6	4.60
Sample2	14	37.10	1.81	9	5.79	2.38	7	7.97
Sample3	12	23.57	1.30	9	4.16	1.60	6	5.55
Sample4	12	21.10	0.92	11	2.88	0.89	6	3.09

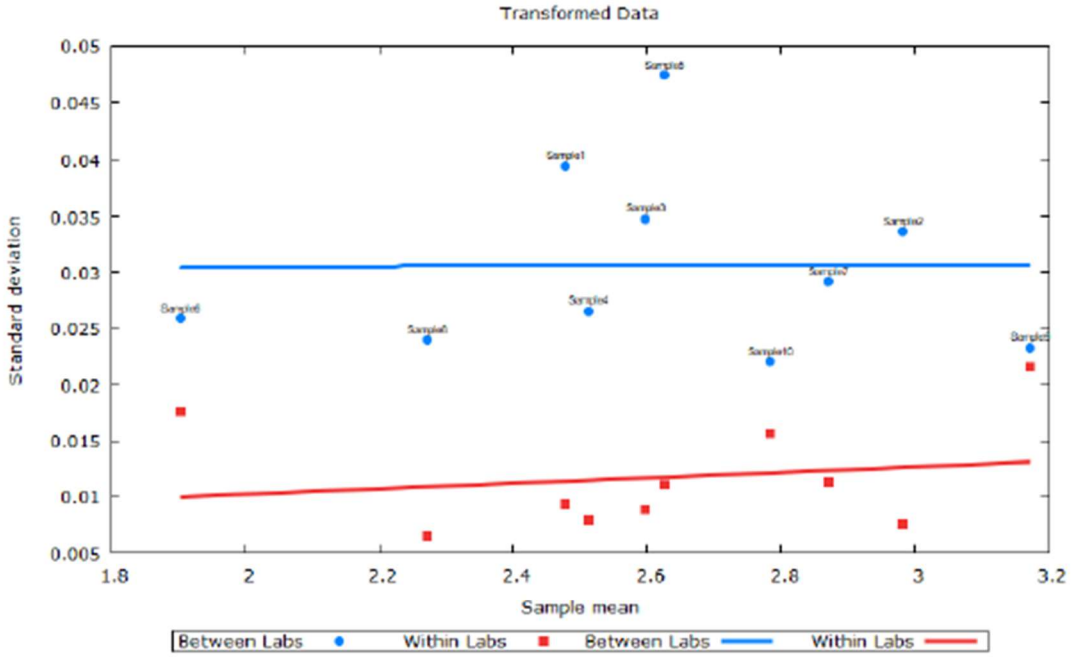
Sample	Res.	m	D	DF(D)	R	d	DF(d)	r
Sample5	12	24.54	1.81	8	5.90	1.28	6	4.44
Sample6	14	8.81	1.25	6	4.34	0.30	7	1.01
Sample7	12	32.90	1.99	6	6.90	1.02	6	3.53
Sample8	14	15.51	1.48	6	5.11	0.27	7	0.91
Sample9	13	45.08	1.09	12	3.37	1.01	6	3.50
Sample10	13	29.31	0.77	10	2.43	0.55	6	1.91

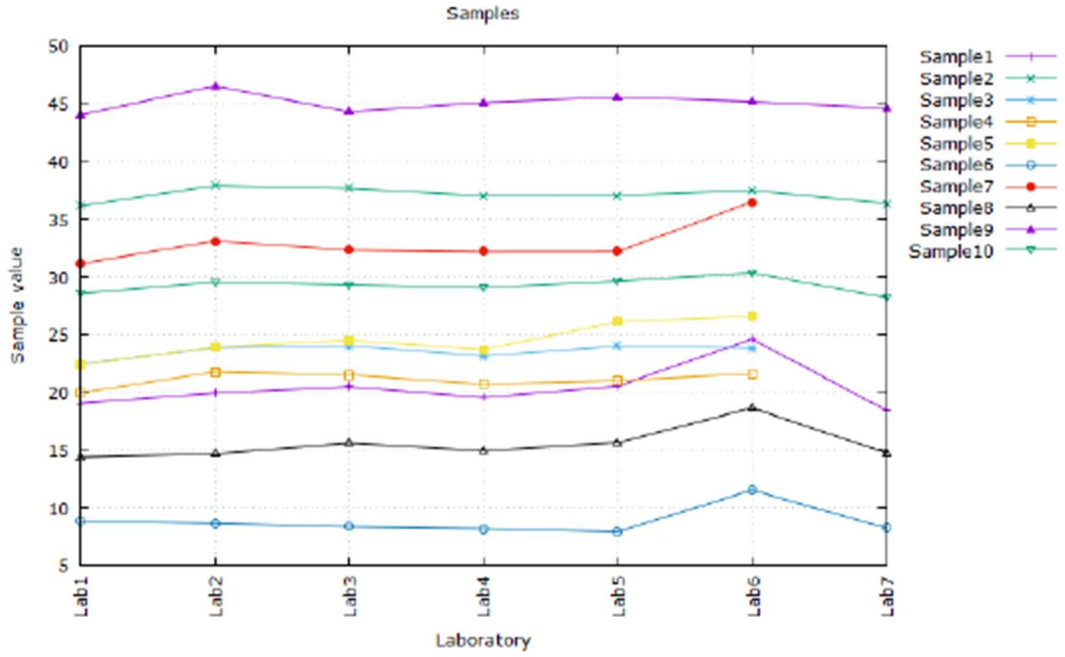
ANOVA Data:
E: estimated

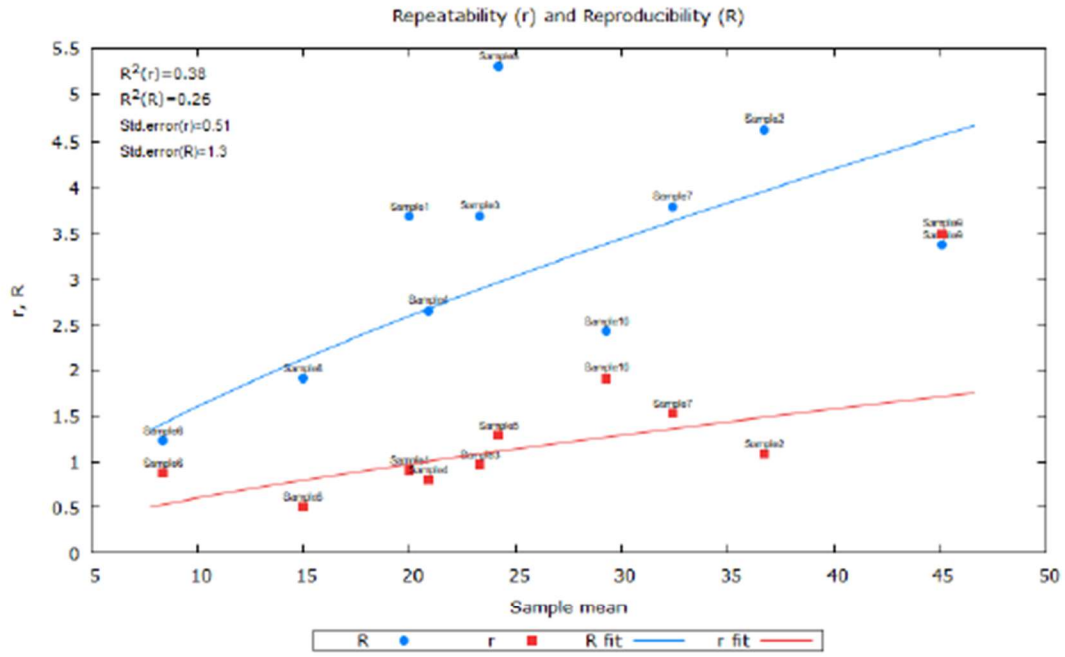
	Sample1	Sample2	Sample3	Sample4	Sample5
Lab1 (R1)	2.44	2.96	2.57	2.48	2.56
Lab1 (R2)	2.45	2.97	2.57	2.48	2.57
Lab2 (R1)	2.47	3.02	2.63	2.55	2.62
Lab2 (R2)	2.49	3.00	2.61	2.54	2.62
Lab3 (R1)	2.49	3.00	2.62	2.54	2.64
Lab3 (R2)	2.50	3.00	2.62	2.53	2.64
Lab4 (R1)	2.46	2.98	2.58	2.51	2.61
Lab4 (R2)	2.46	2.99	2.60	2.51	2.61
Lab5 (R1)	2.51	3.00	2.62	2.51	E 2.62
Lab5 (R2)	2.49	2.98	2.62	2.52	2.62
Lab6 (R1)	E 2.56	E 2.89	2.52	2.48	2.72
Lab6 (R2)	2.56	2.89	E 2.52	E 2.48	2.69
Lab7 (R1)	2.42	2.97	E 2.57	E 2.49	E 2.60
Lab7 (R2)	E 2.42	2.97	E 2.57	E 2.49	E 2.60

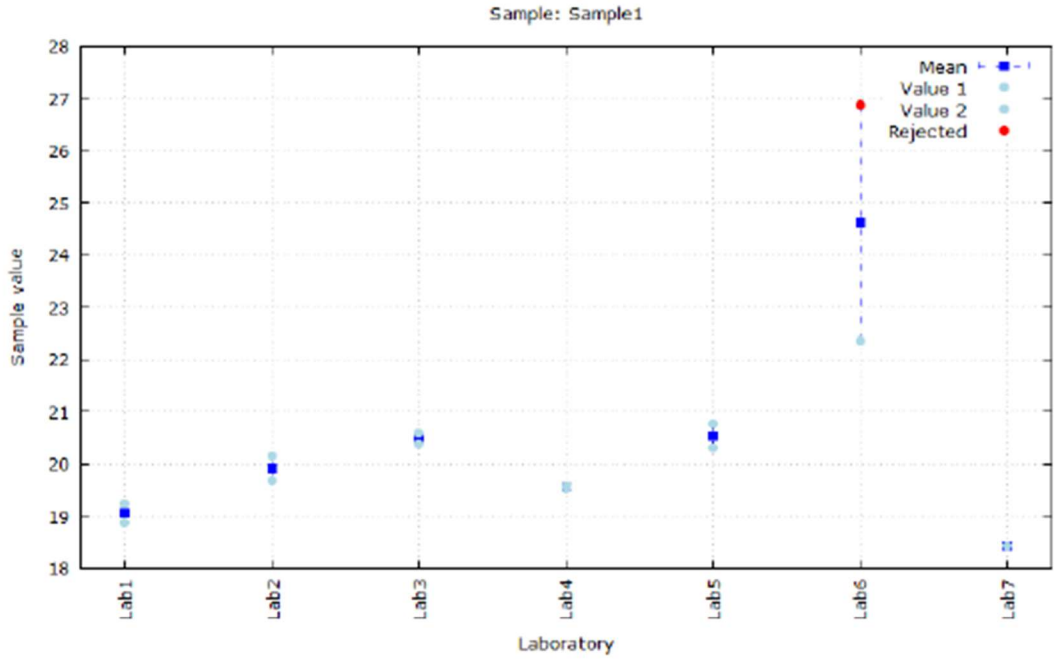
	Sample6	Sample7	Sample8	Sample9	Sample10
Lab1 (R1)	1.94	2.84	2.24	3.15	2.75
Lab1 (R2)	1.93	2.83	2.24	3.15	2.77
Lab2 (R1)	1.92	2.89	2.26	3.20	2.80
Lab2 (R2)	1.93	2.89	2.25	3.20	2.79
Lab3 (R1)	1.93	2.86	2.29	3.17	2.79
Lab3 (R2)	1.88	2.88	2.31	3.14	2.78
Lab4 (R1)	1.88	2.87	2.26	3.18	2.78
Lab4 (R2)	1.90	2.85	2.27	3.17	2.77
Lab5 (R1)	1.88	2.86	2.30	3.18	2.79
Lab5 (R2)	1.86	2.87	2.30	3.19	2.80
Lab6 (R1)	E 1.92	E 2.93	E 2.28	3.14	2.84
Lab6 (R2)	E 1.92	2.93	E 2.28	3.21	2.79
Lab7 (R1)	1.91	E 2.85	2.26	3.16	2.75
Lab7 (R2)	1.88	E 2.85	2.26	E 3.16	E 2.75

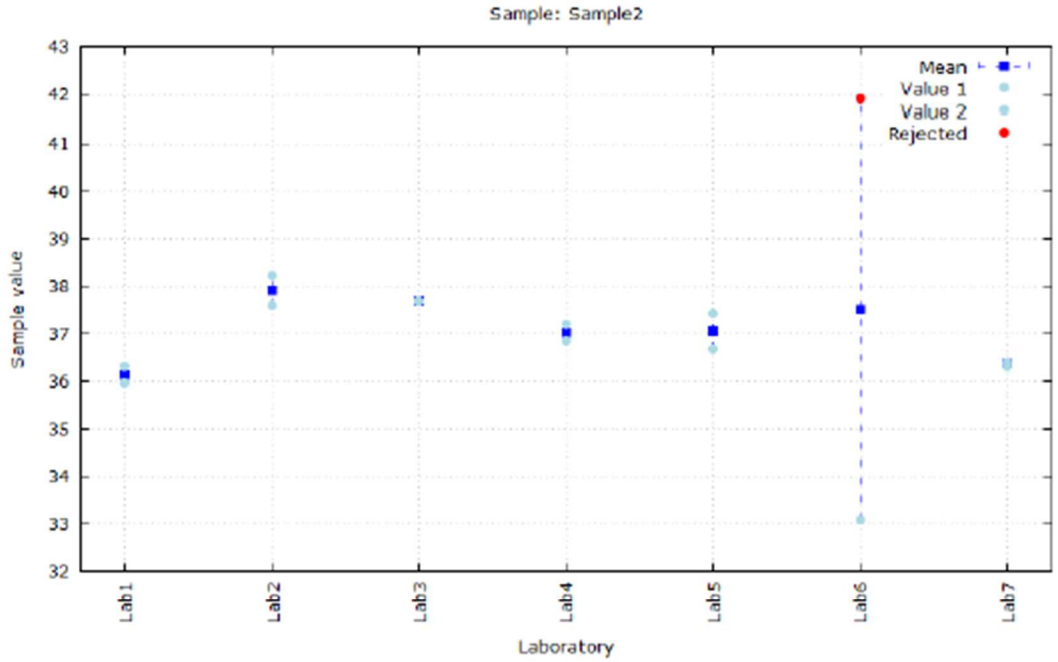

Original Data
Standard deviation
Sample mean
Between Labs
Within Labs
Between Labs
Within Labs

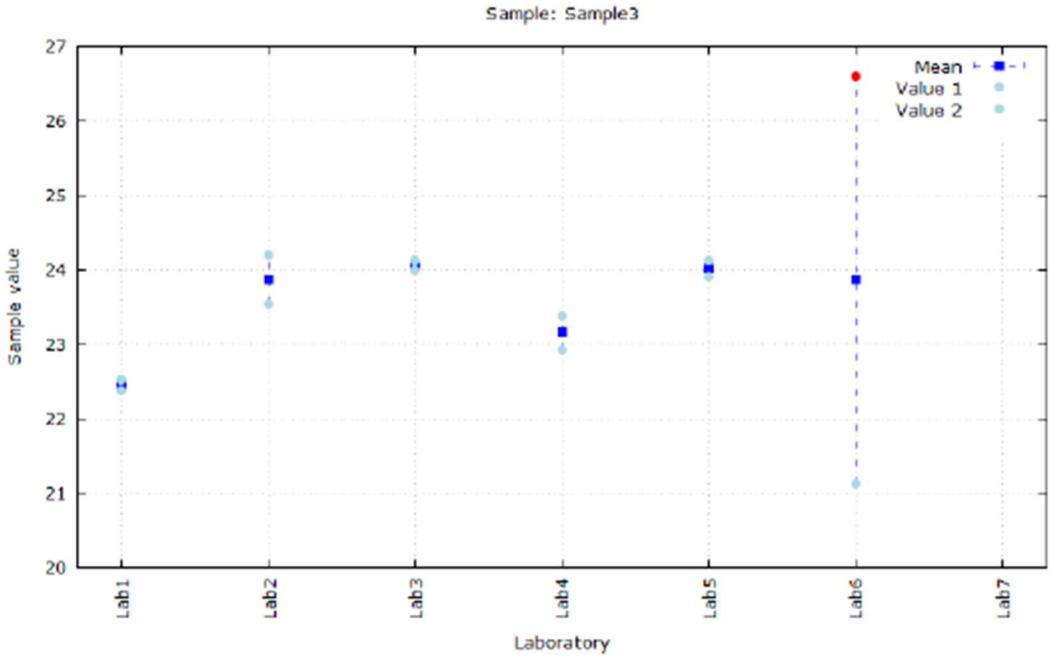

Transformed Data
Standard deviation
Sample mean
Between Labs
Within Labs
Between Labs
Within Labs

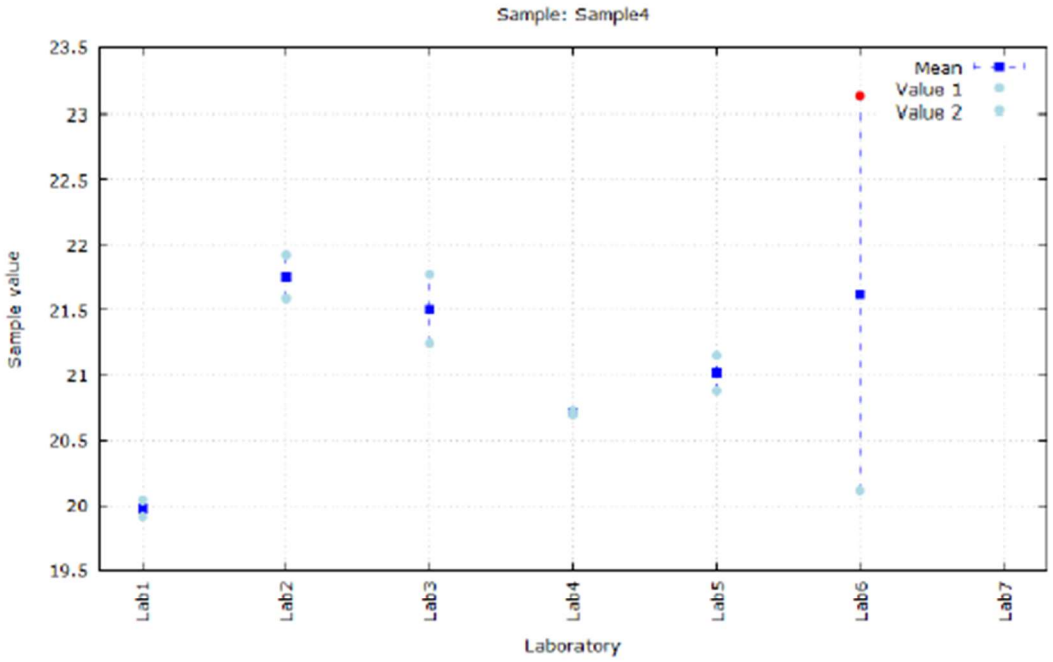

Samples
Sample value
Laboratory
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10

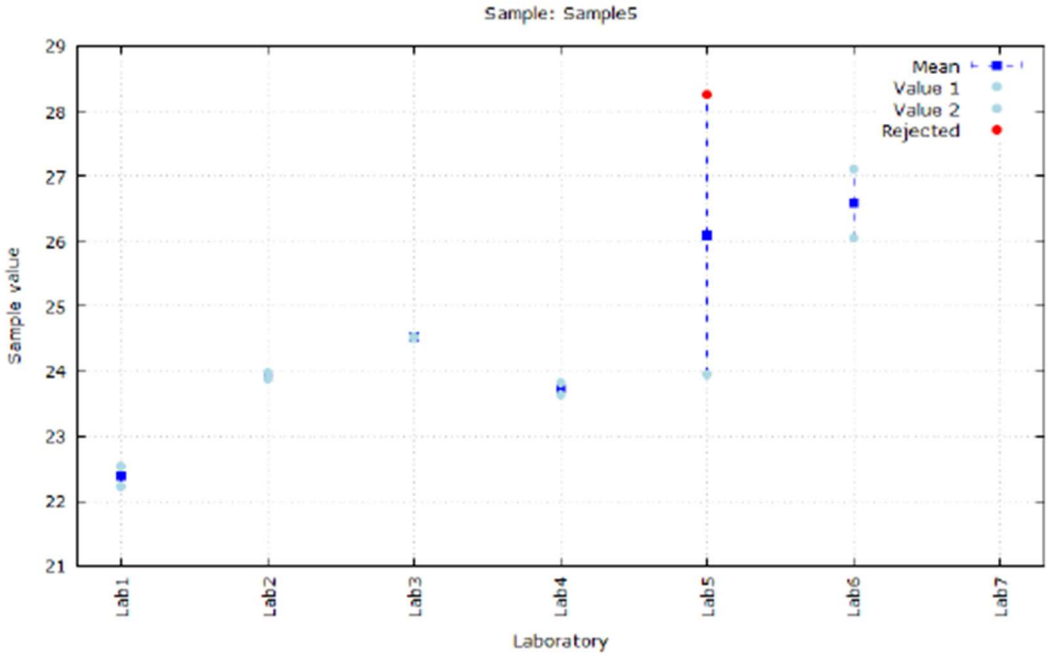

Repeatability (r) and Reproducibility (R)
R²(r)=0.38
R²(R)=0.26
Std.error(r)=0.51
Std.error(R)=1.3
r, R
Sample mean
R
r
R fit
r fit

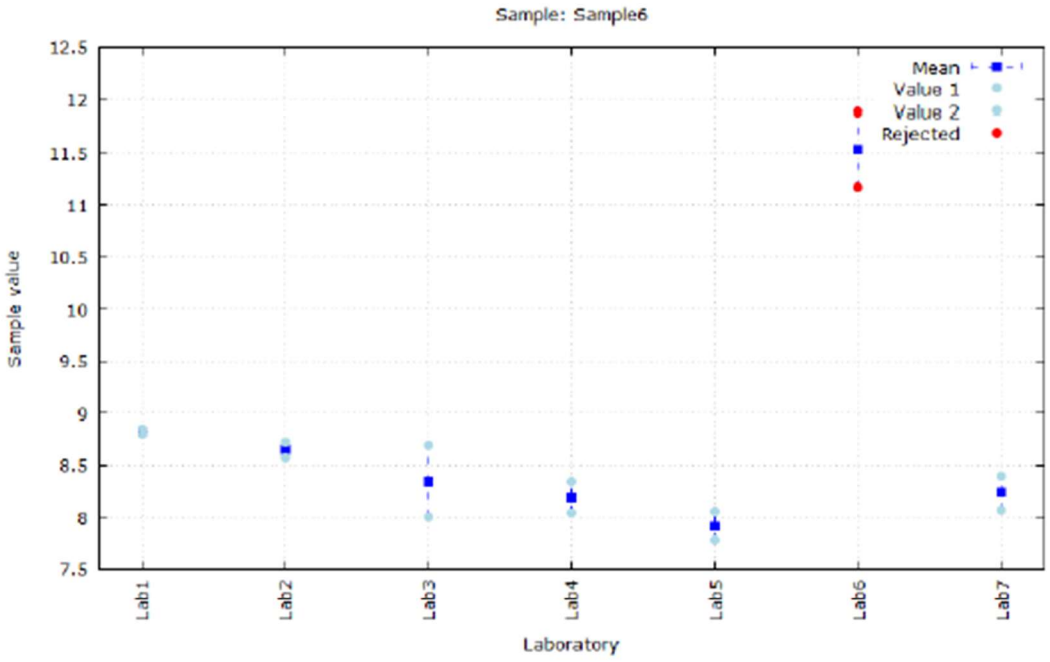

Sample: Sample1
Mean
Value 1
Value 2
Rejected
Sample value
28
27
26
25
24
23
22
21
20
19
18
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

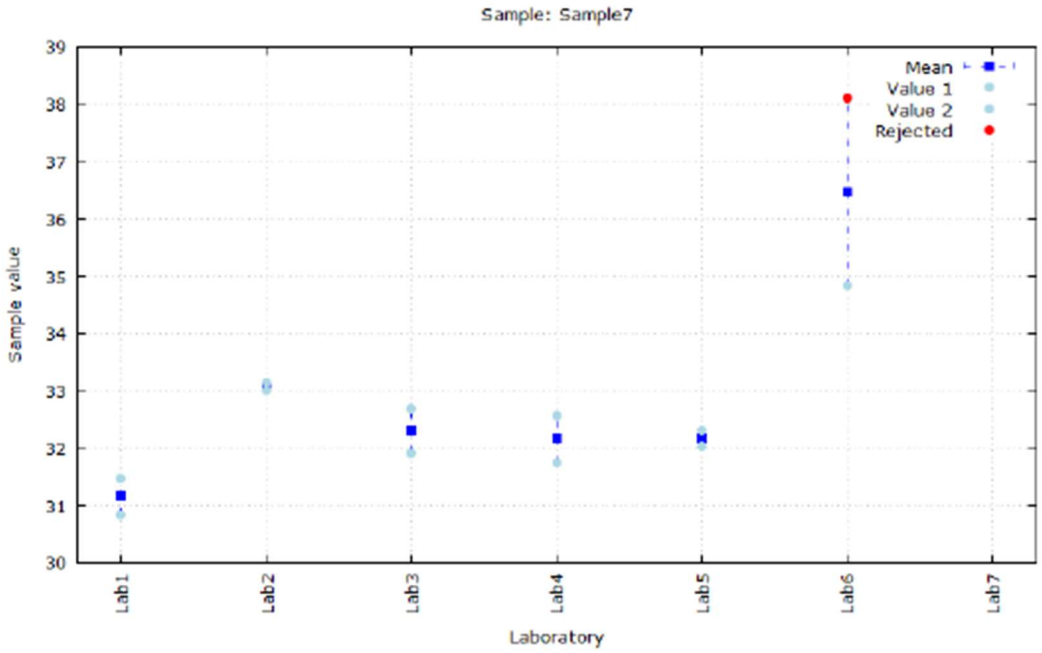

Sample: Sample2
Mean
Value 1
Value 2
Rejected
Sample value
43
42
41
40
39
38
37
36
35
34
33
32
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

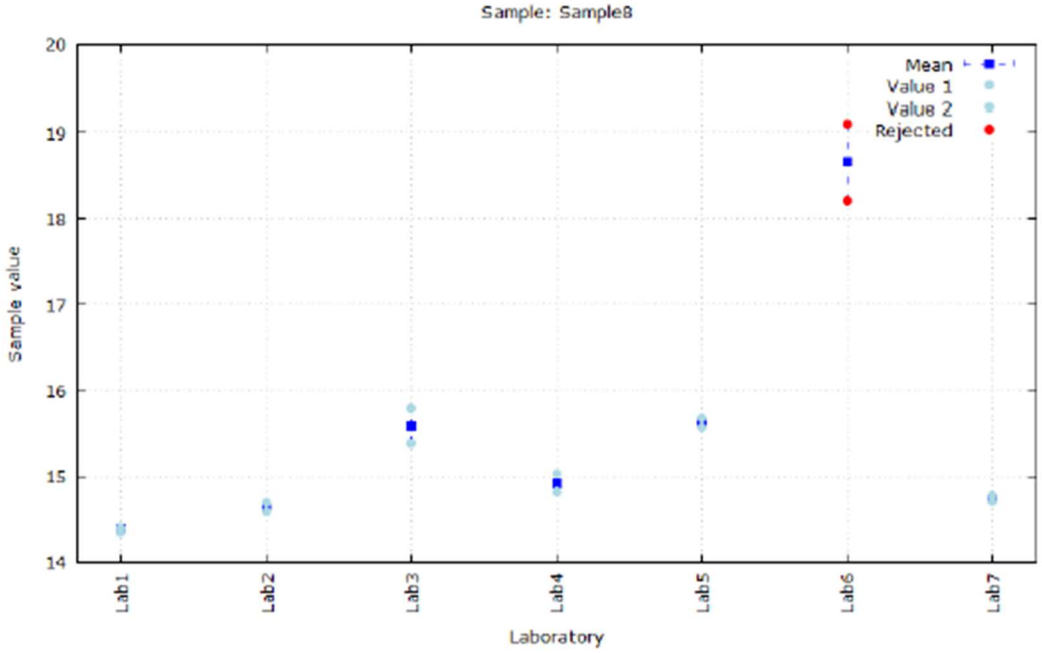

Sample: Sample3
Mean
Value 1
Value 2
Sample value
27
26
25
24
23
22
21
20
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

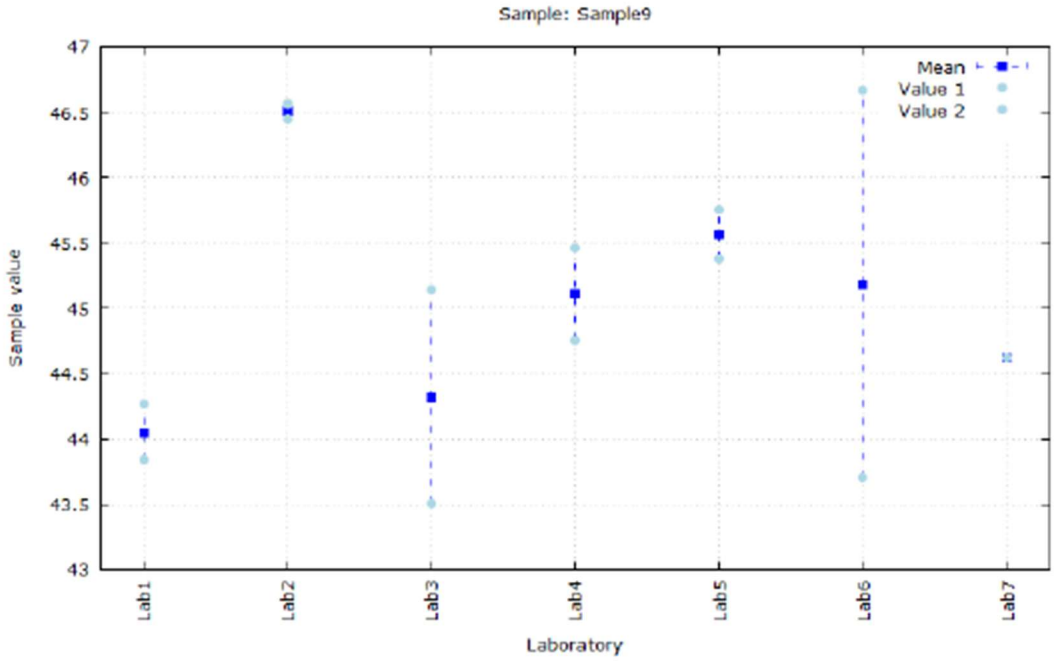

Sample: Sample4
Mean
Value 1
Value 2
Sample value
23.5
23
22.5
22
21.5
21
20.5
20
19.5
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

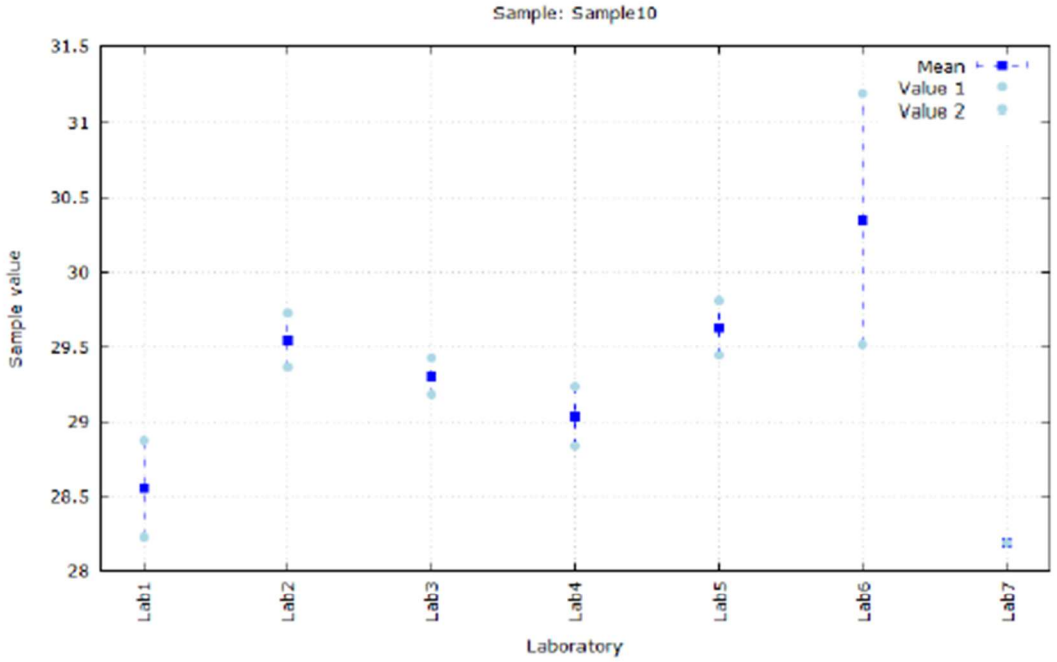

Sample: Sample5
Mean
Value 1
Value 2
Rejected
Sample value
29
28
27
26
25
24
23
22
21
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

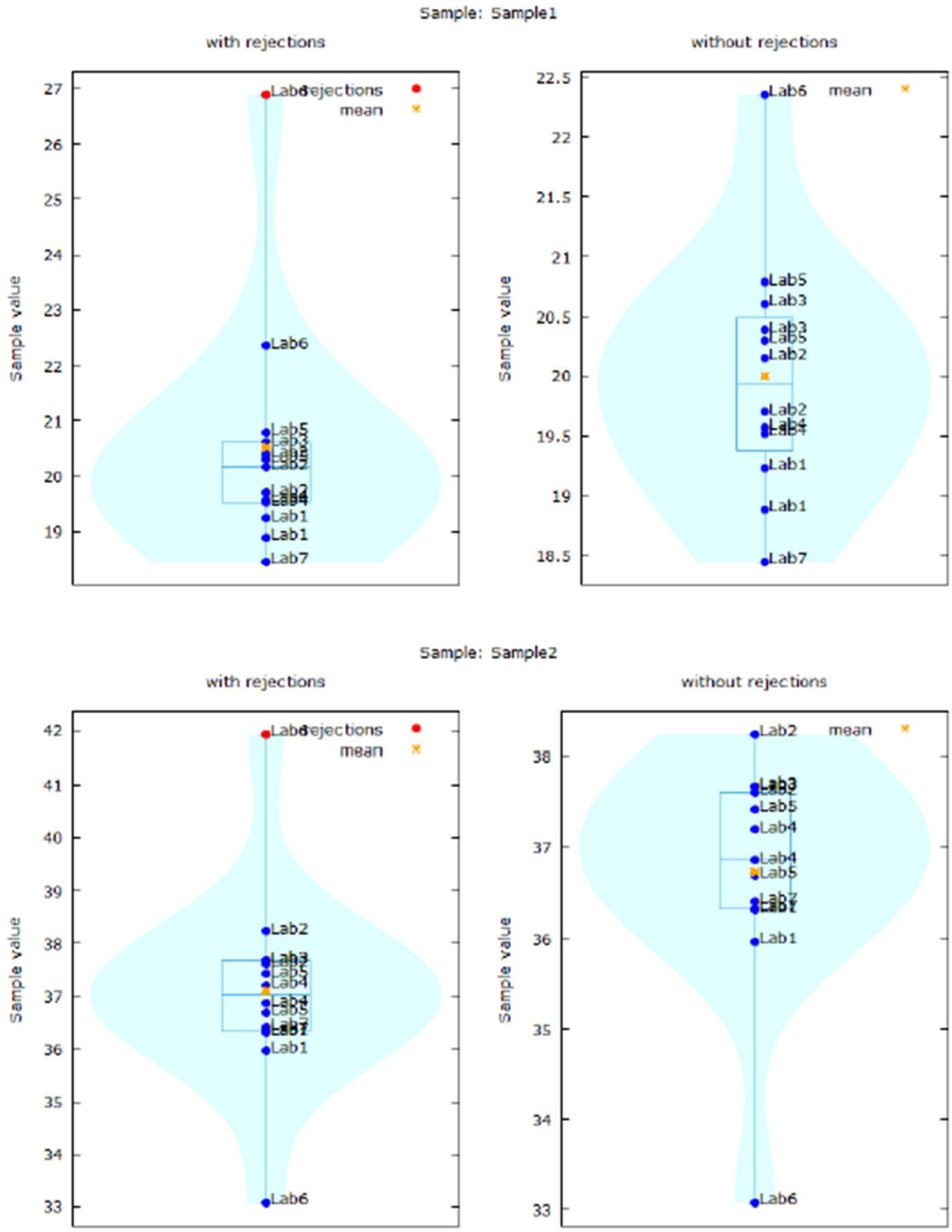

Sample: Sample6
Mean
Value 1
Value 2
Rejected
Sample value
12.5
12
11.5
11
10.5
10
9.5
9
8.5
8
7.5
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

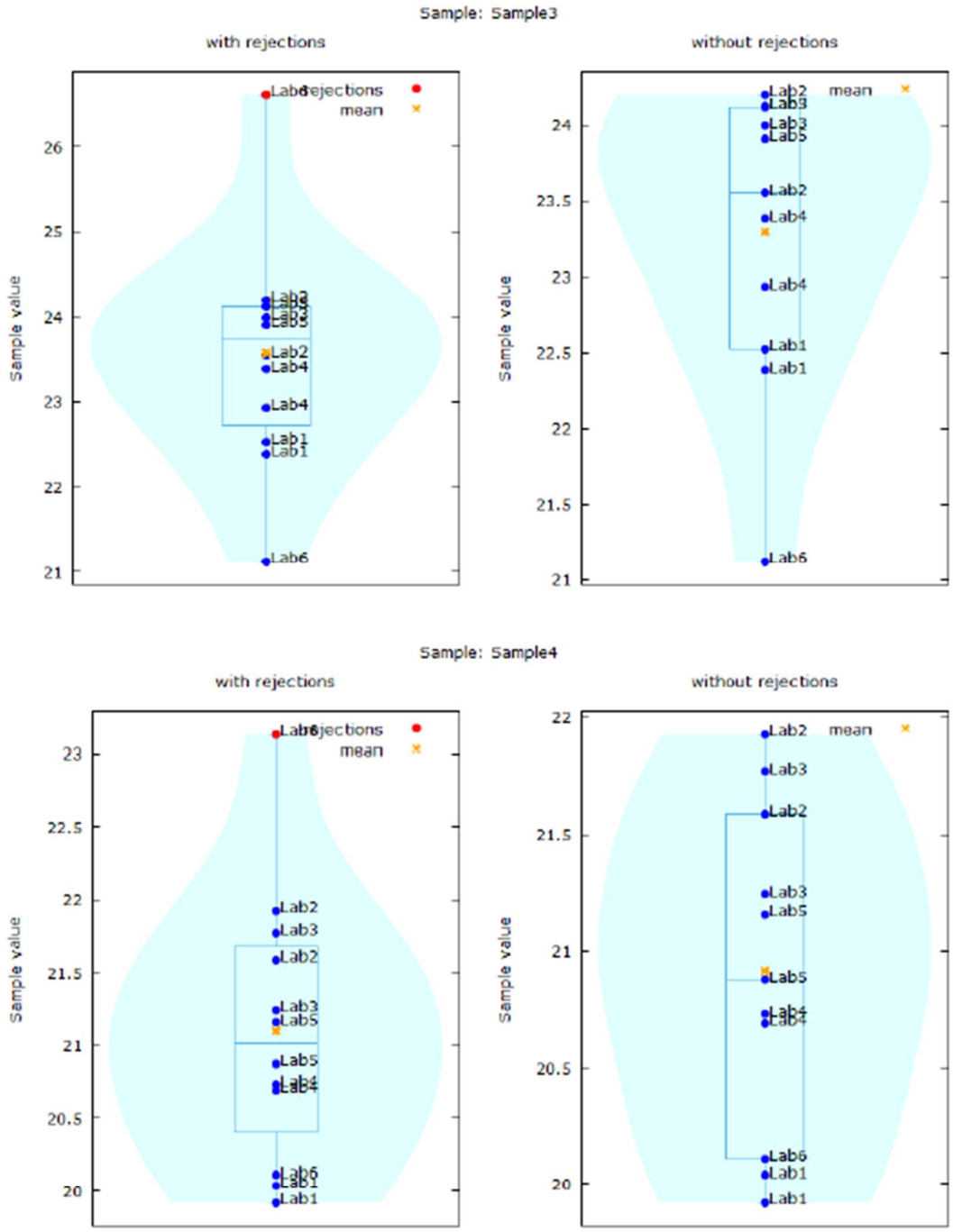

Sample: Sample7
Mean
Value 1
Value 2
Rejected
Sample value
39
38
37
36
35
34
33
32
31
30
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

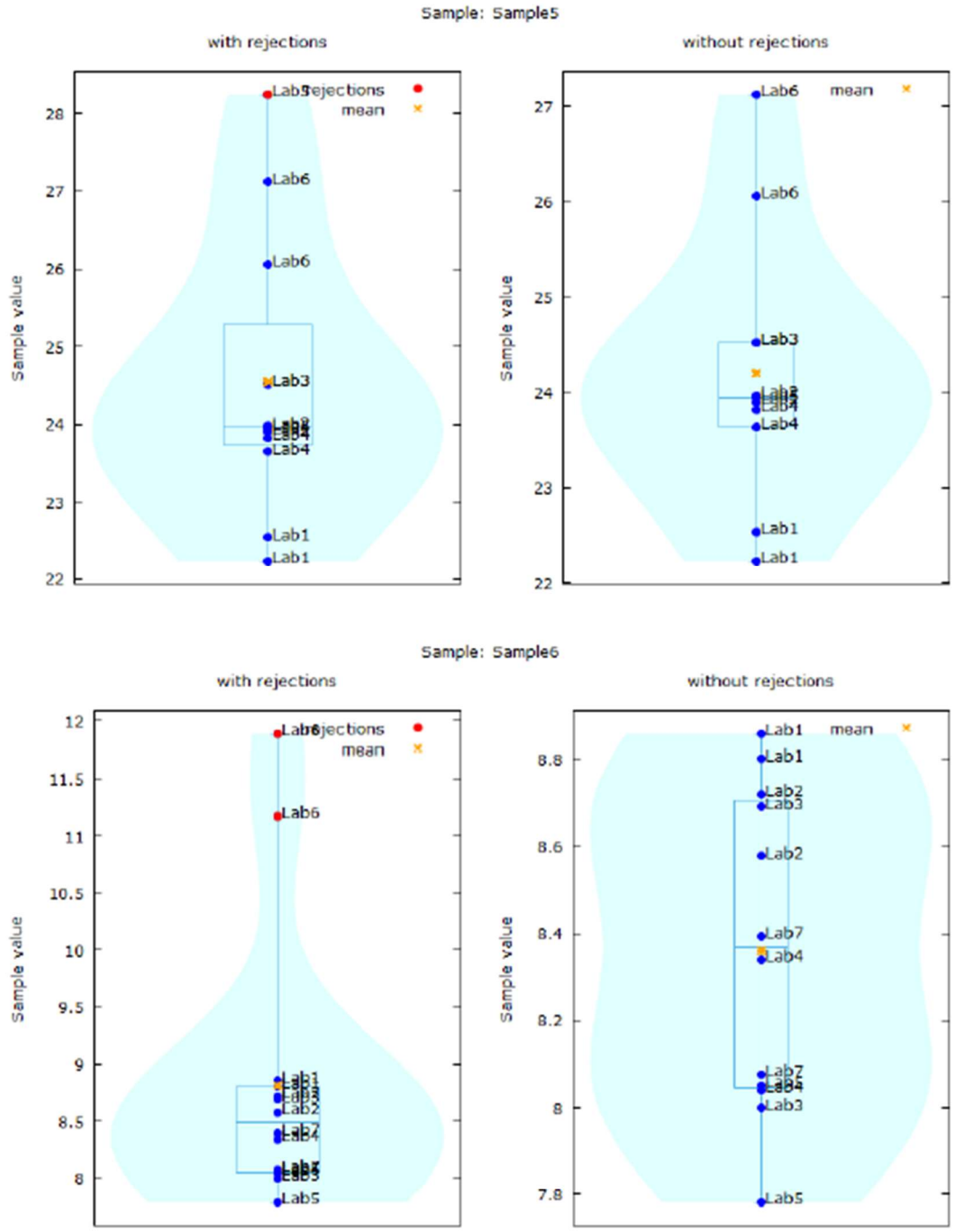

Sample: Sample8
Mean
Value 1
Value 2
Rejected
Sample value
20
19
18
17
16
15
14
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

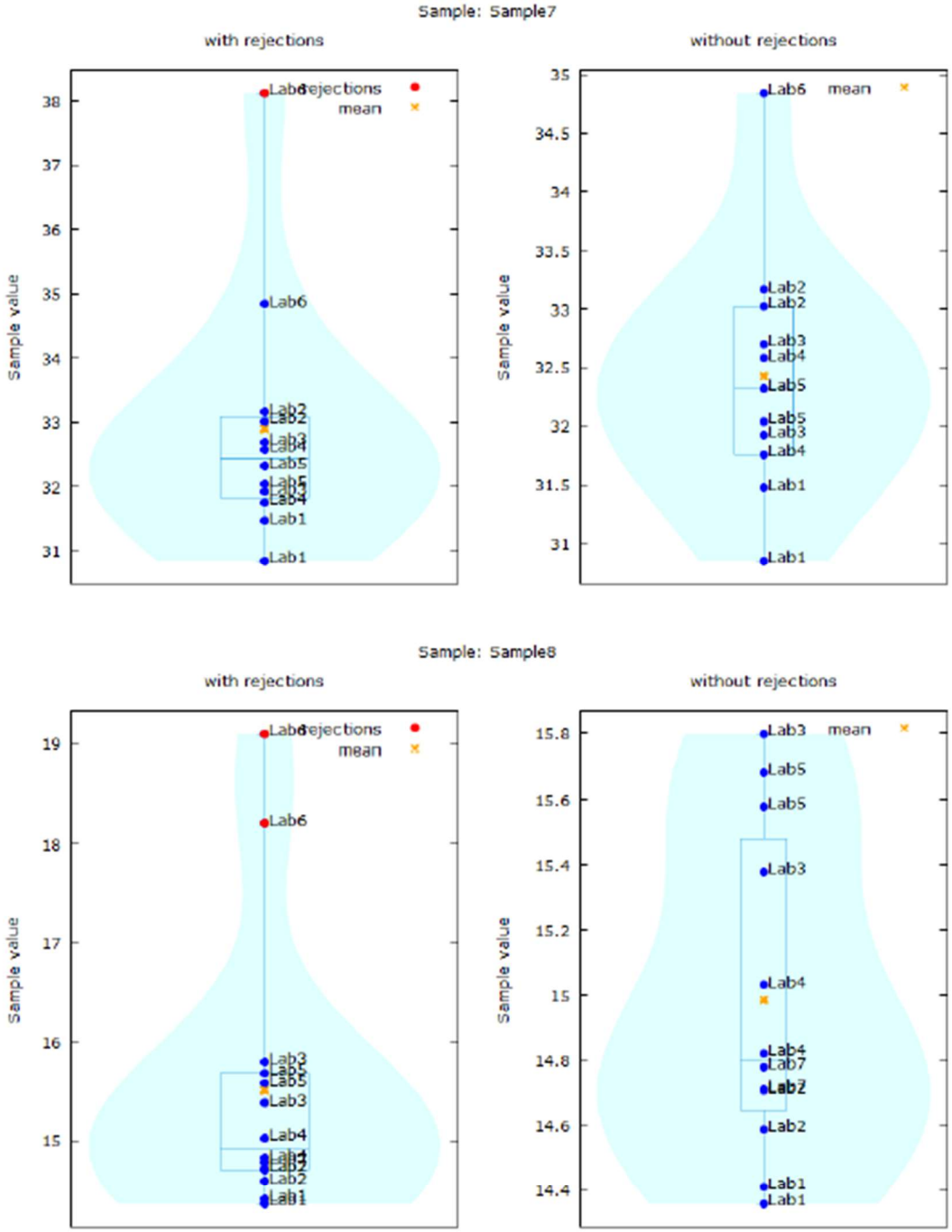

Sample: Sample9
Mean
Value 1
Value 2
Sample value
47
46.5
46
45.5
45
44.5
44
43.5
43
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

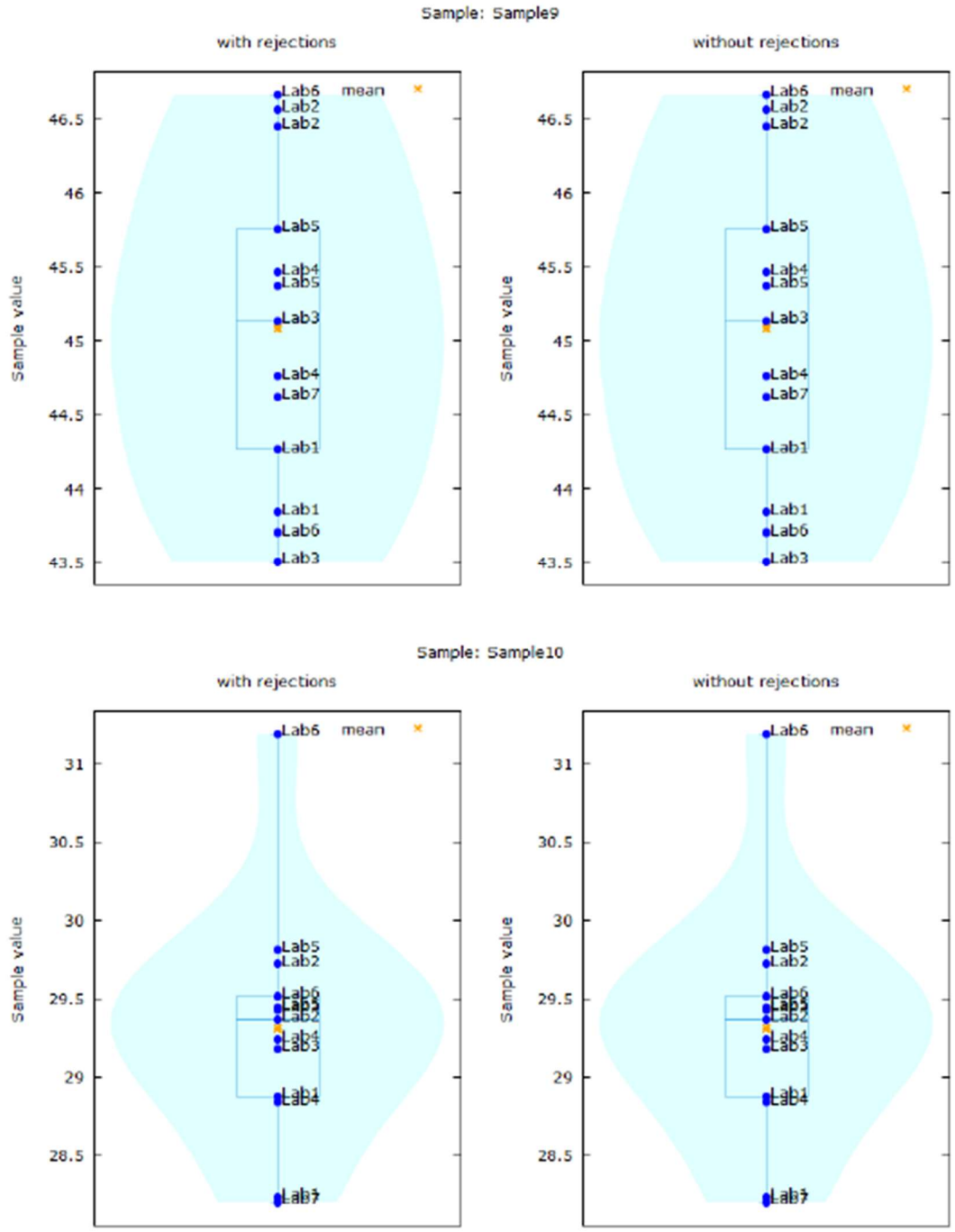

Sample: Sample10
Mean
Value 1
Value 2
Sample value
31.5
31
30.5
30
29.5
29
28.5
28
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

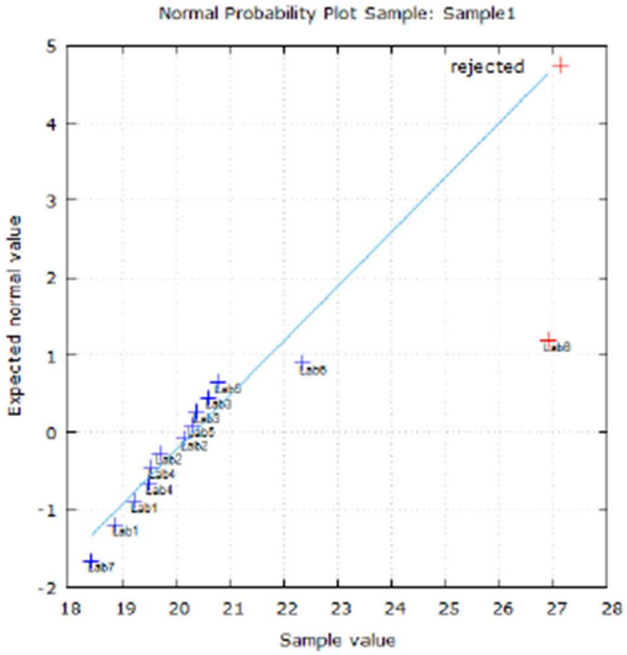

Sample: Sample1
with rejections
without rejections
rejections
mean
Sample value
Lab6
Lab5
Lab3
Lab2
Lab1
Lab7
Sample: Sample2
with rejections
without rejections
rejections
mean
Sample value
Lab2
Lab4
Lab5
Lab1
Lab6

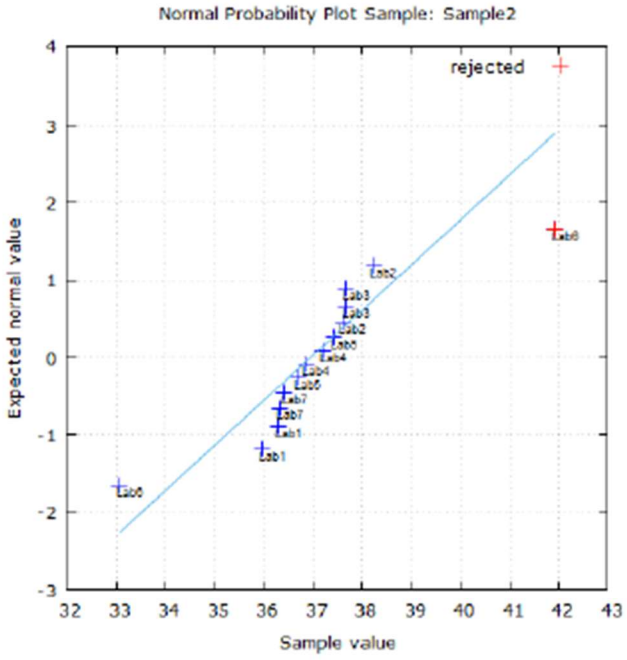

Sample: Sample3
with rejections
without rejections
rejections
mean
Sample value
Sample: Sample4
with rejections
without rejections
rejections
mean
Sample value

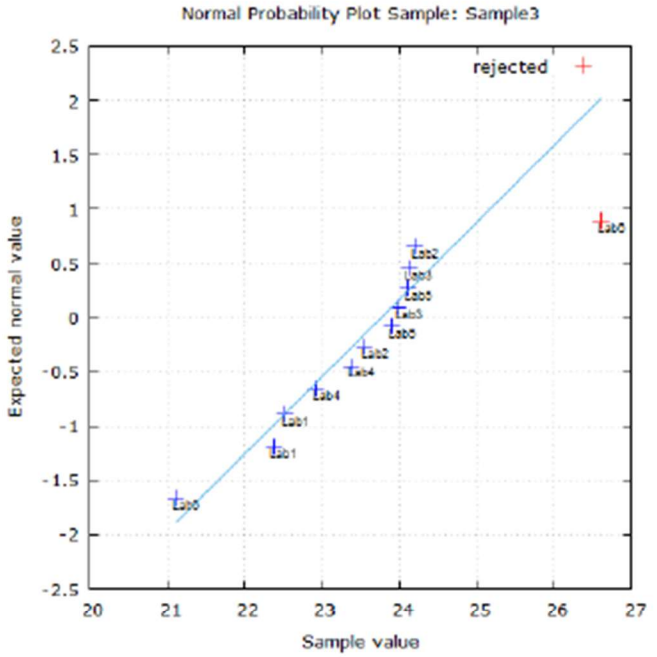

Sample: Sample5
with rejections
without rejections
Sample value
rejections
mean
Lab6
Lab3
Lab4
Lab1
Sample: Sample6
with rejections
without rejections
Sample value
rejections
mean
Lab6
Lab1
Lab2
Lab3
Lab7
Lab4
Lab5

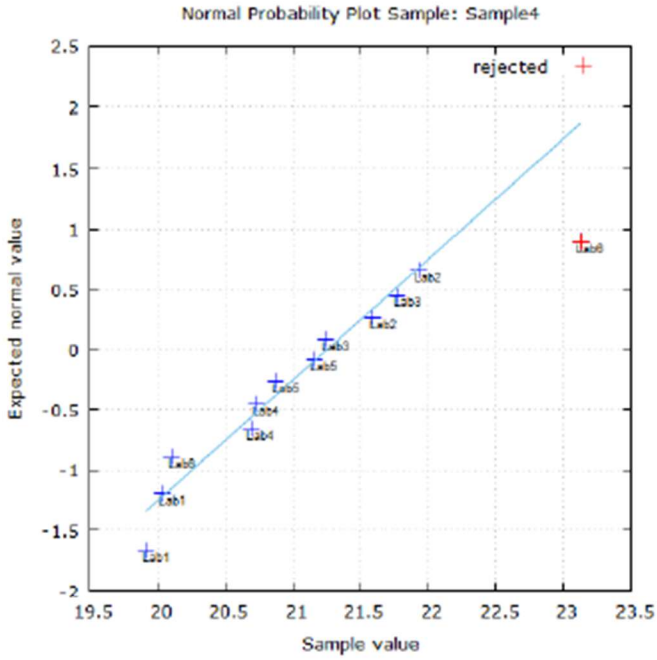

Sample: Sample7
with rejections
without rejections
Sample value
rejections
mean
Lab6
Lab2
Lab3
Lab4
Lab5
Lab1
Sample: Sample8
with rejections
without rejections
Sample value
rejections
mean
Lab6
Lab3
Lab5
Lab4
Lab7
Lab2
Lab1

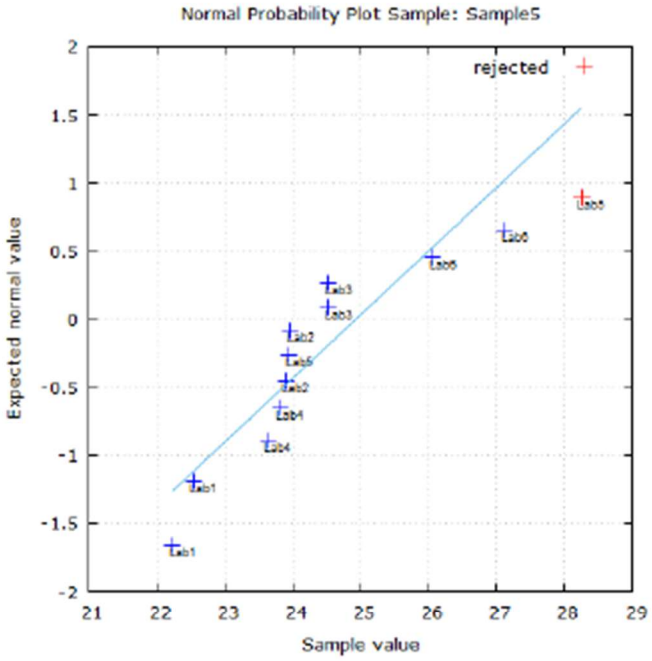

Sample: Sample9
with rejections
without rejections
Sample value
mean
Lab6
Lab2
Lab2
Lab5
Lab4
Lab5
Lab3
Lab4
Lab7
Lab1
Lab1
Lab6
Lab3
46.5
46
45.5
45
44.5
44
43.5
Sample: Sample10
with rejections
without rejections
Sample value
mean
Lab5
Lab2
Lab6
Lab3
Lab1
Lab4
Lab7
31
30.5
30
29.5
29
28.5

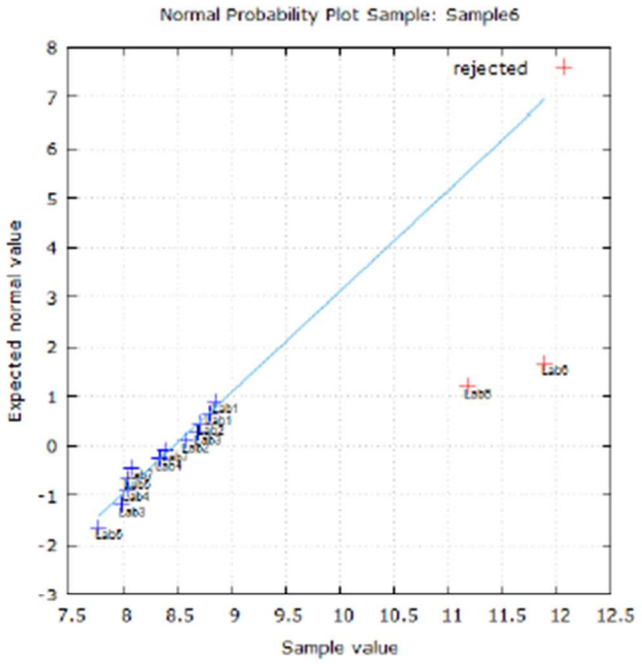

Normal Probability Plot Sample: Sample1
rejected
Expected normal value
Sample value
5
4
3
2
1
0
-1
-2
18
19
20
21
22
23
24
25
26
27
28

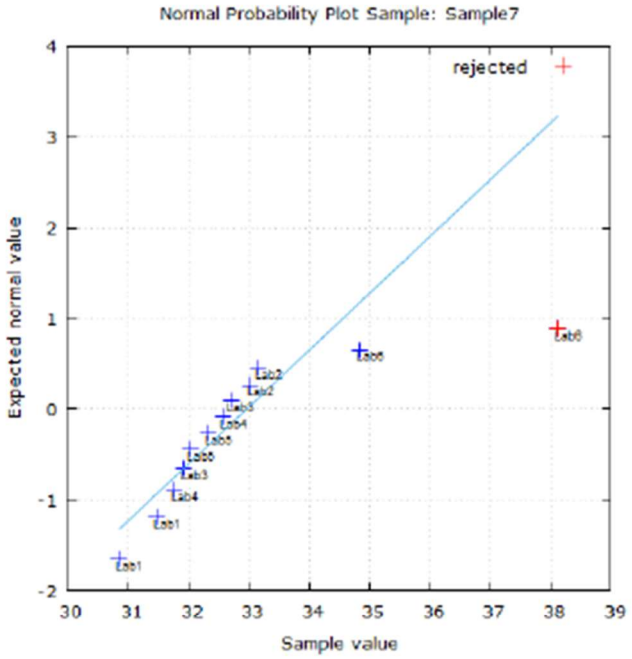

Normal Probability Plot Sample: Sample2
rejected
Expected normal value
Sample value
4
3
2
1
0
-1
-2
-3
32
33
34
35
36
37
38
39
40
41
42
43

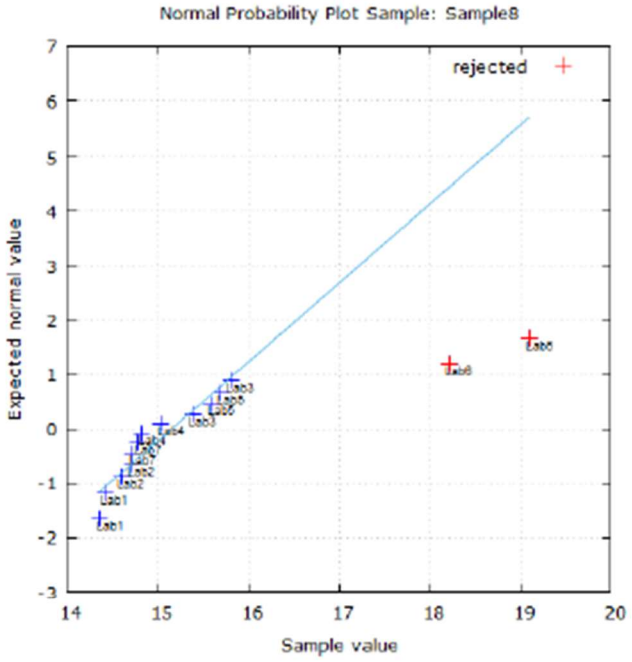

Normal Probability Plot Sample: Sample3
rejected
Expected normal value
Sample value
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
20
21
22
23
24
25
26
27

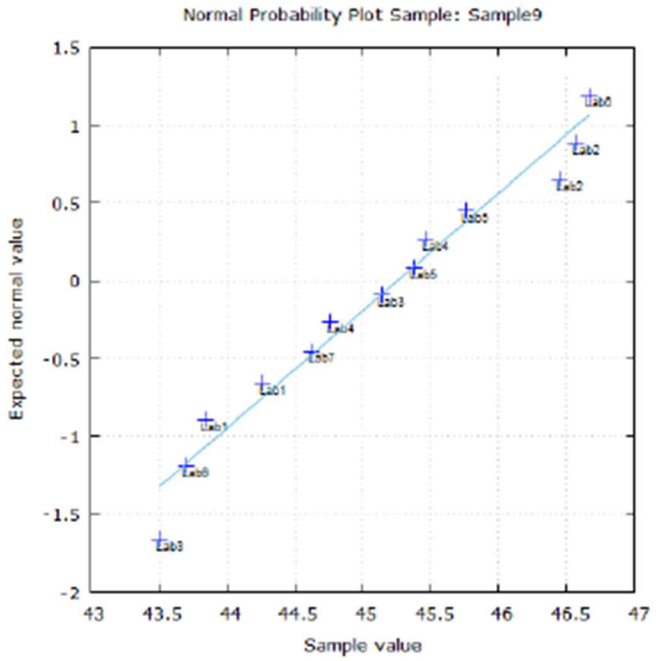

Normal Probability Plot Sample: Sample4
rejected
Expected normal value
Sample value
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
19.5
20
20.5
21
21.5
22
22.5
23
23.5

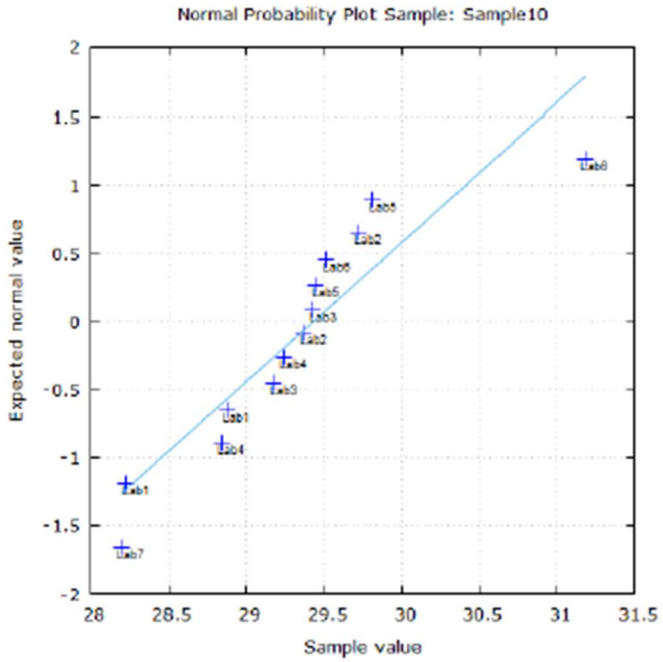

Normal Probability Plot Sample: Sample5
rejected
Expected normal value
Sample value
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
21
22
23
24
25
26
27
28
29

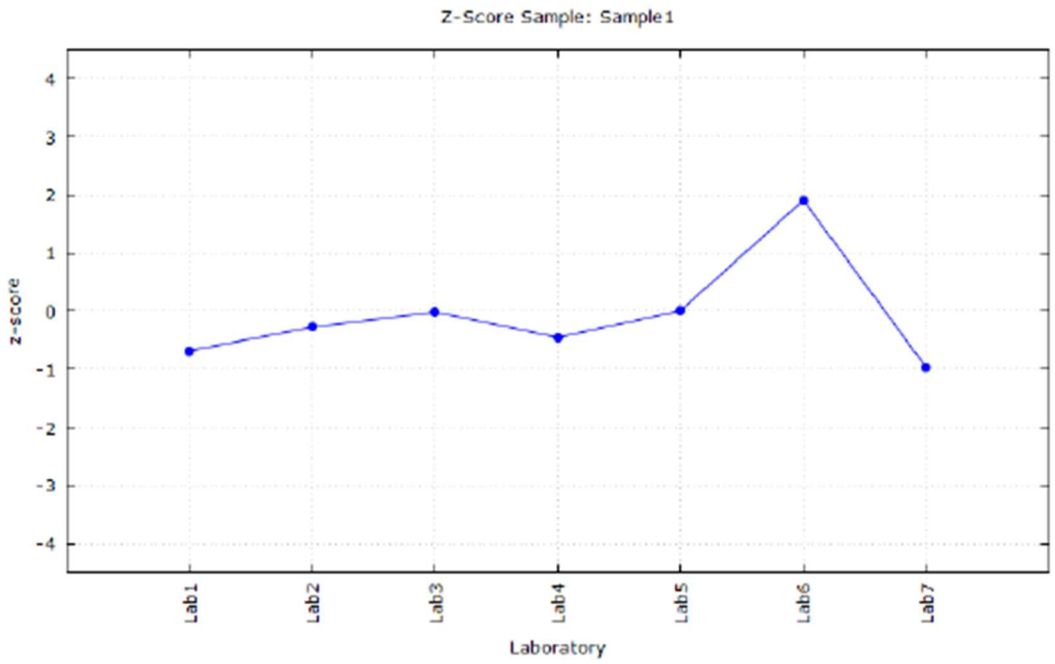

Normal Probability Plot Sample: Sample6
rejected
Expected normal value
Sample value
8
7
6
5
4
3
2
1
0
-1
-2
-3
7.5
8
8.5
9
9.5
10
10.5
11
11.5
12
12.5

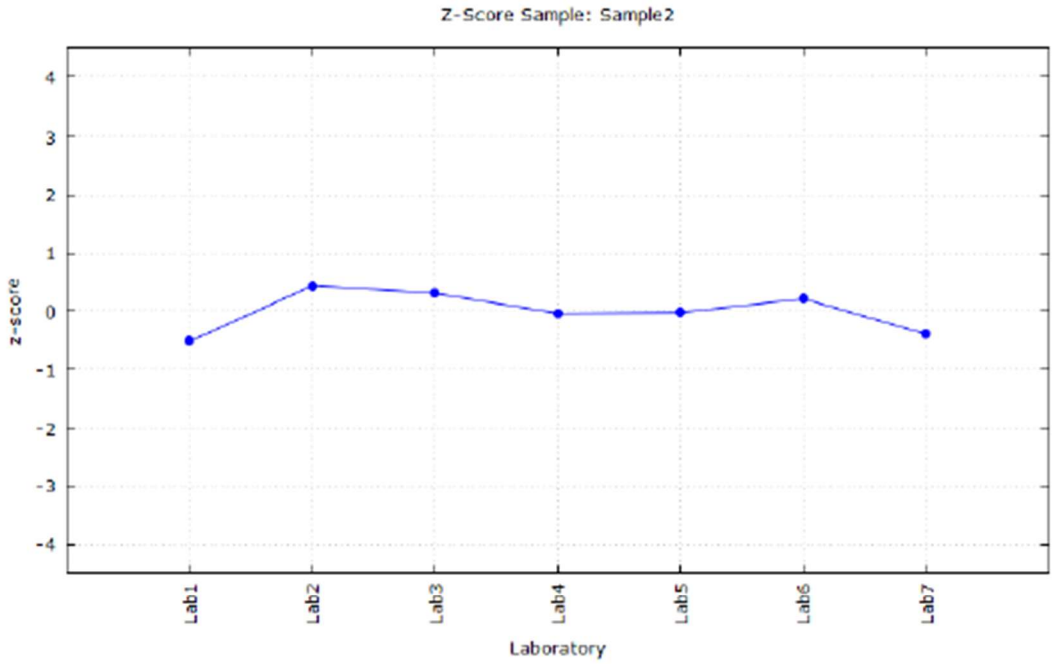

Normal Probability Plot Sample: Sample7
rejected
Expected normal value
Sample value
4
3
2
1
0
-1
-2
30
31
32
33
34
35
36
37
38
39

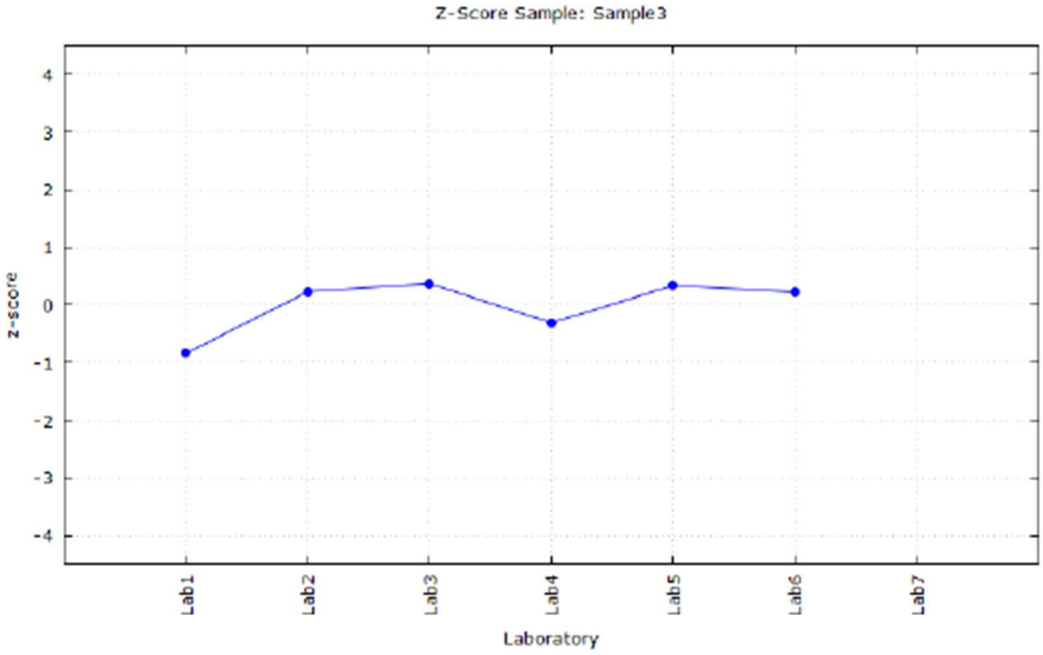

Normal Probability Plot Sample: Sample8
rejected
Expected normal value
Sample value
7
6
5
4
3
2
1
0
-1
-2
-3
14
15
16
17
18
19
20

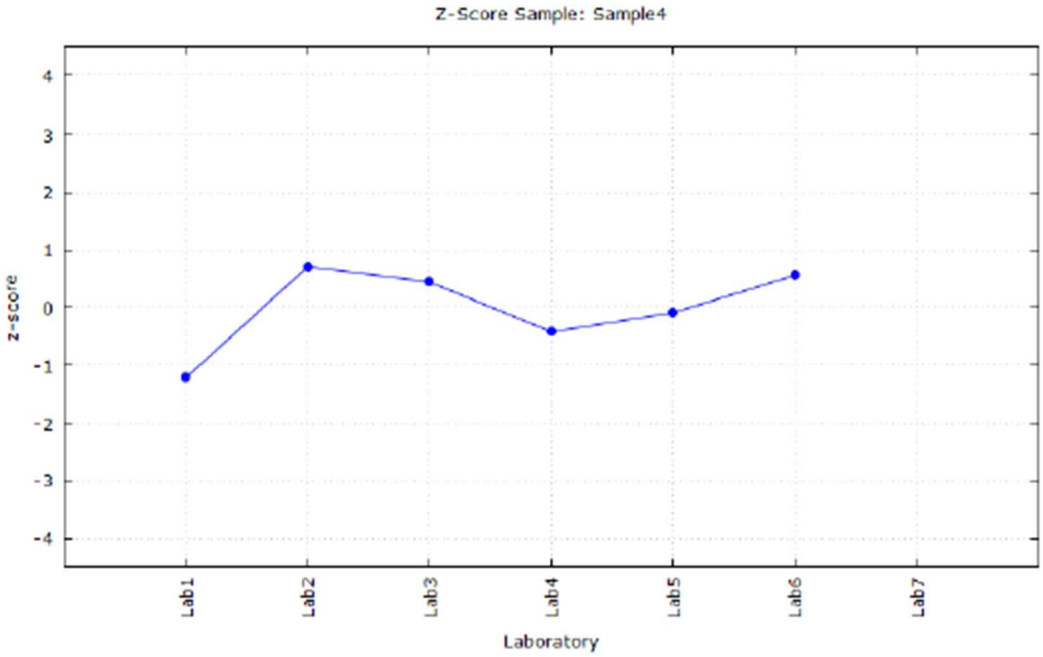

Normal Probability Plot Sample: Sample9
Expected normal value
Sample value
1.5
1
0.5
0
-0.5
-1
-1.5
-2
43
43.5
44
44.5
45
45.5
46
46.5
47

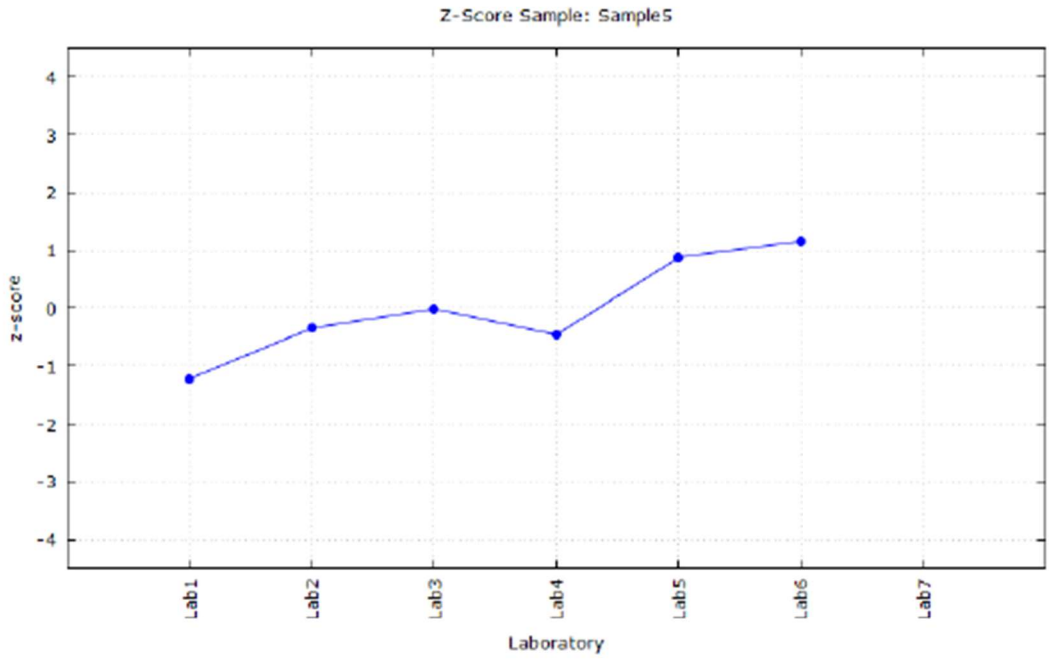

Normal Probability Plot Sample: Sample10
Expected normal value
Sample value
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
28
28.5
29
29.5
30
30.5
31
31.5

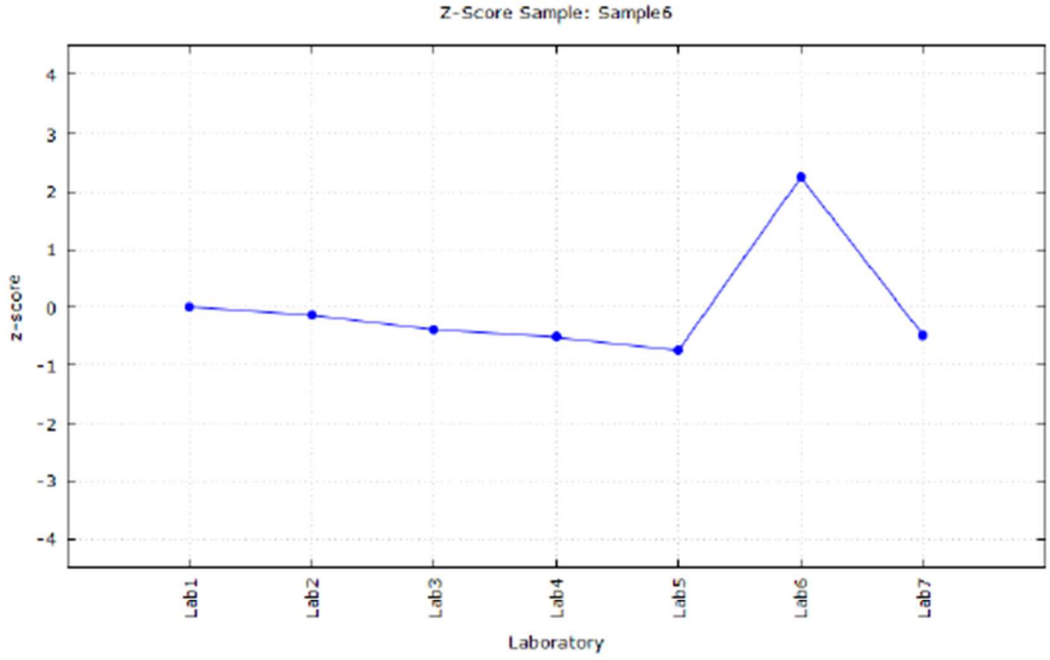

Z-Score Sample: Sample1
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

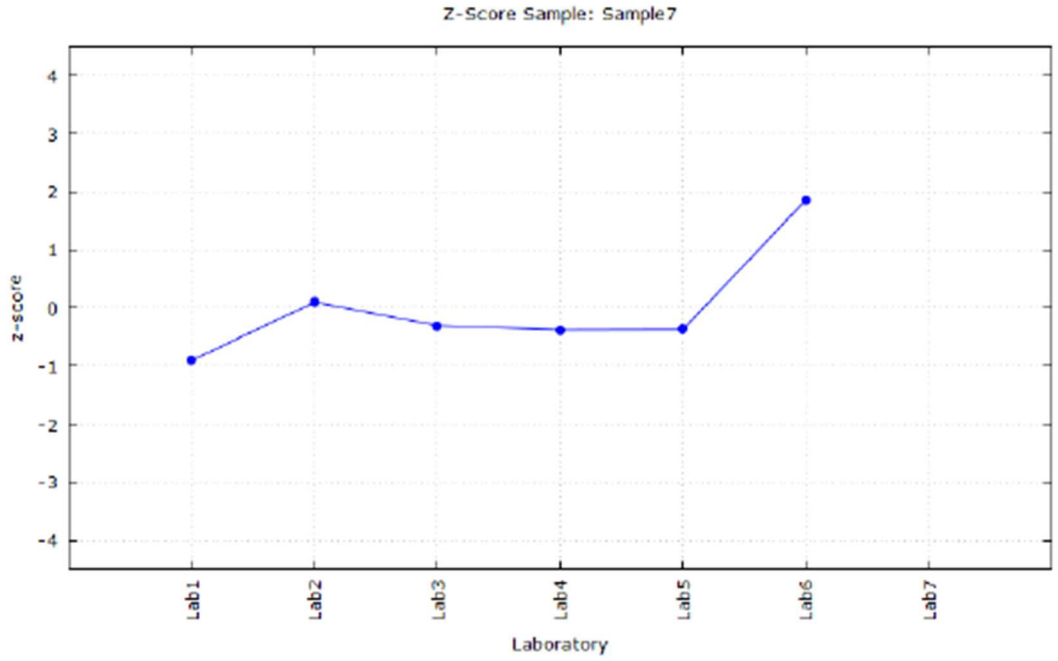

Z-Score Sample: Sample2
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

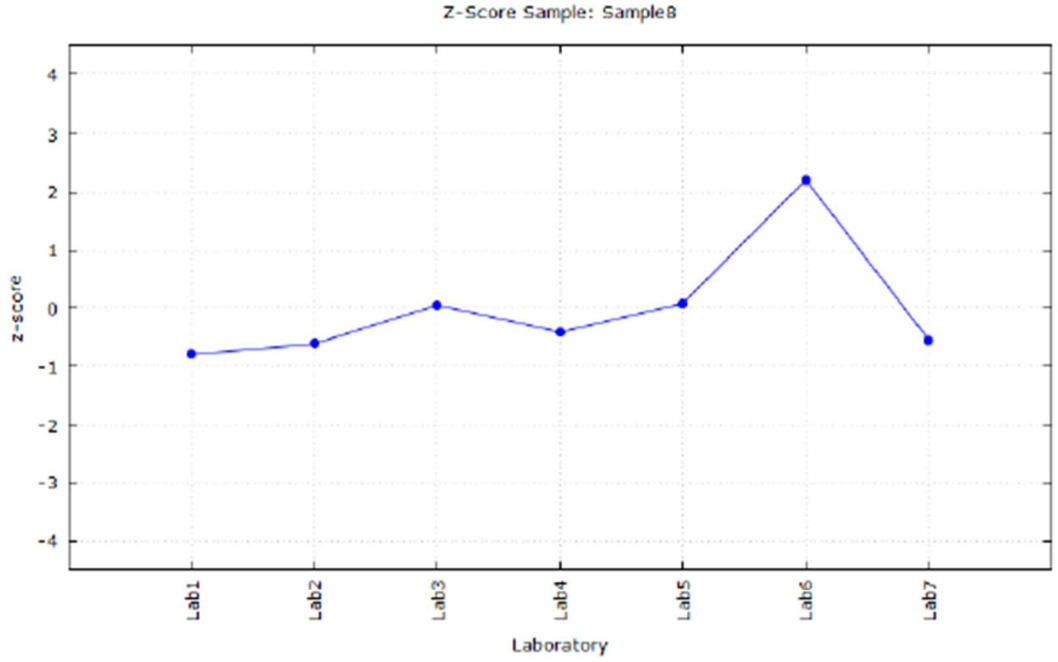

Z-Score Sample: Sample3
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

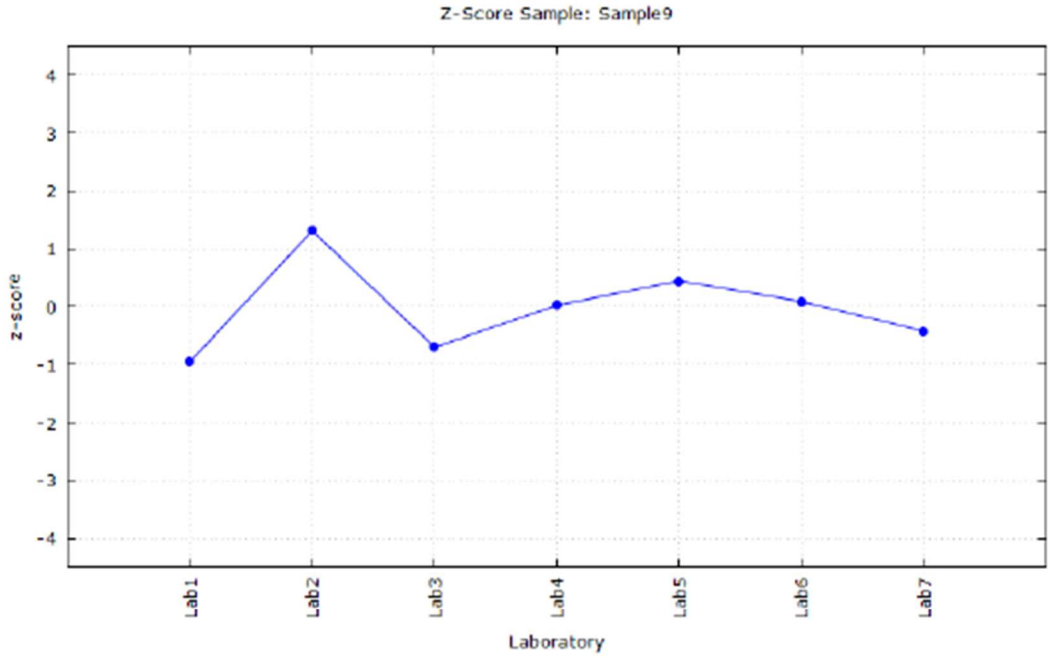

Z-Score Sample: Sample4
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

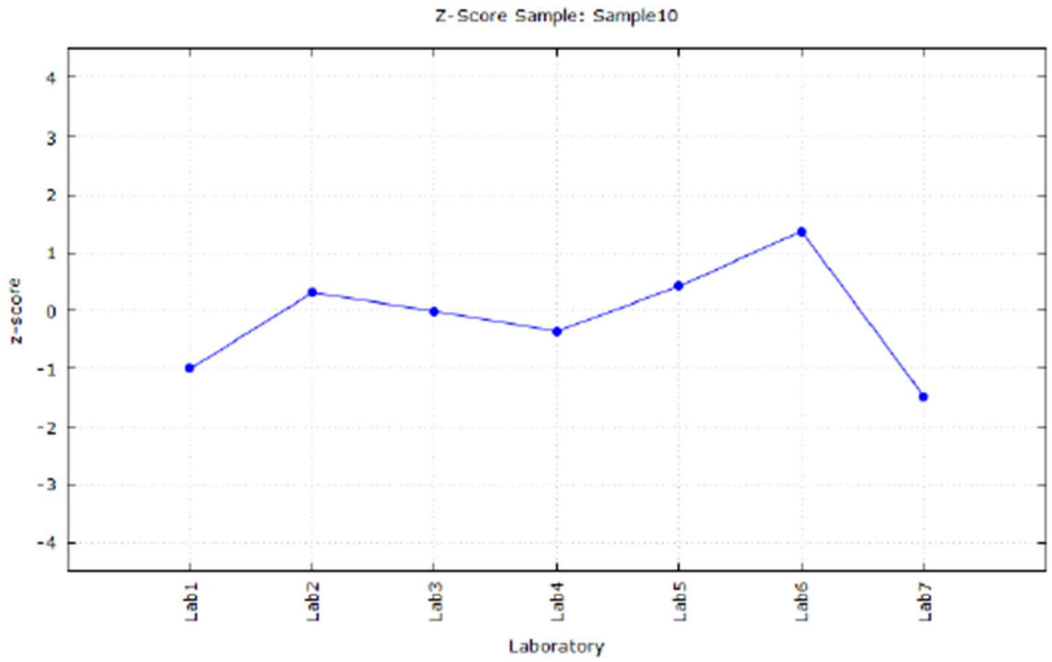

Z-Score Sample: Sample5
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

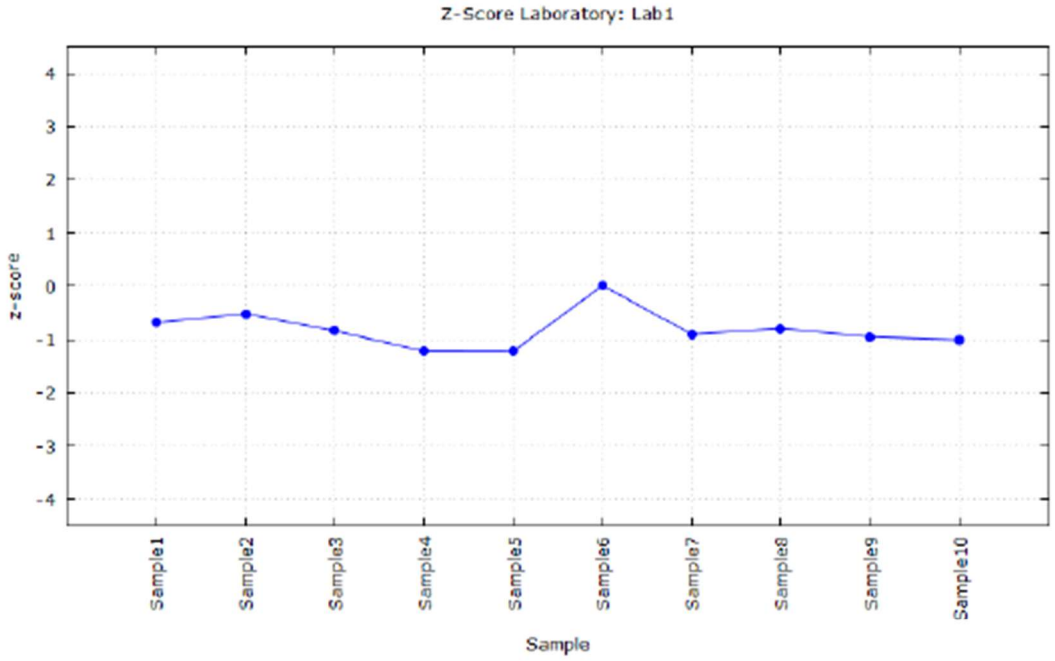

Z-Score Sample: Sample6
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

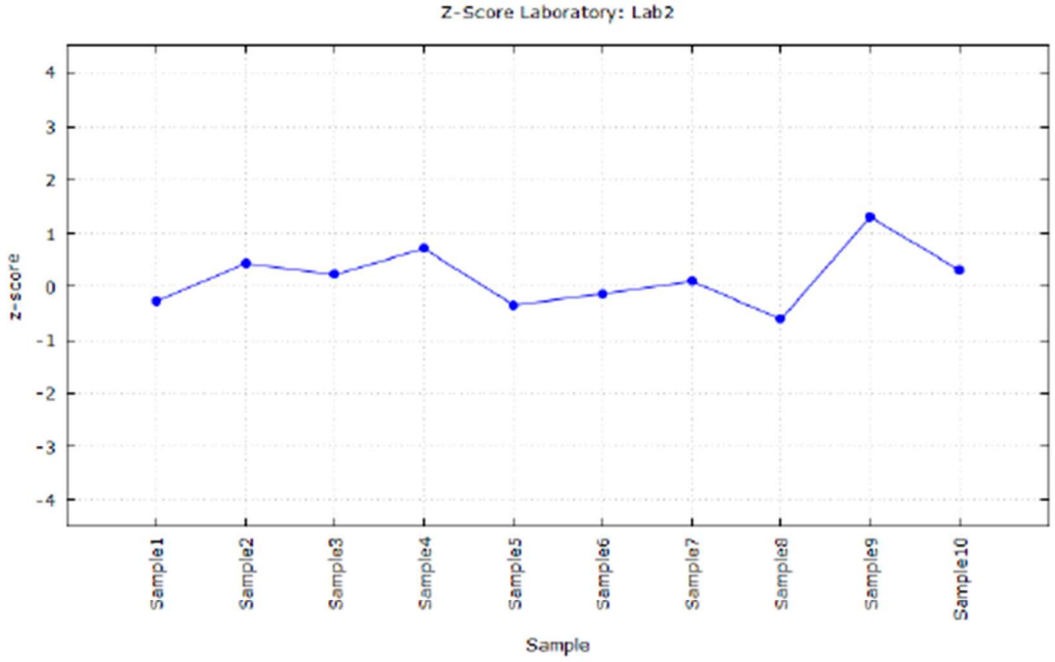

Z-Score Sample: Sample7
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

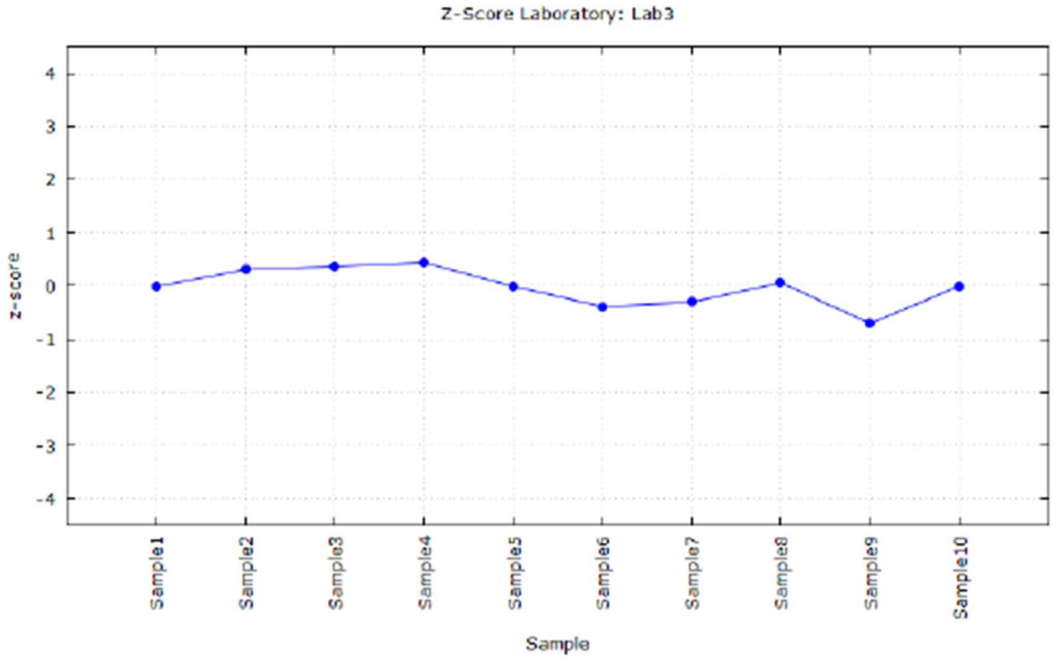

Z-Score Sample: Sample8
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

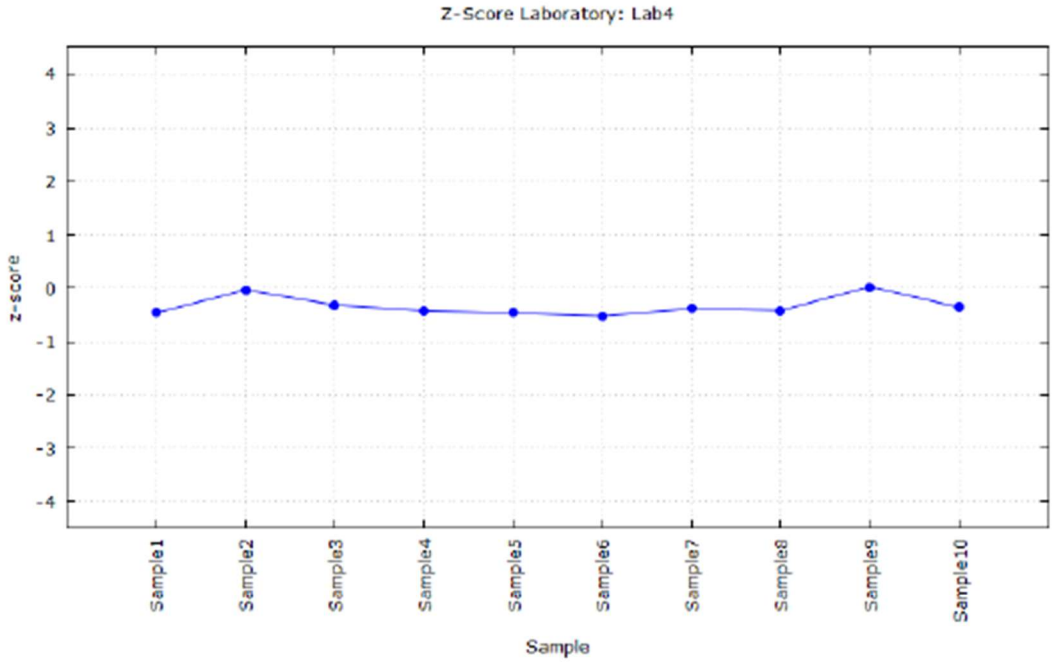

Z-Score Sample: Sample9
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

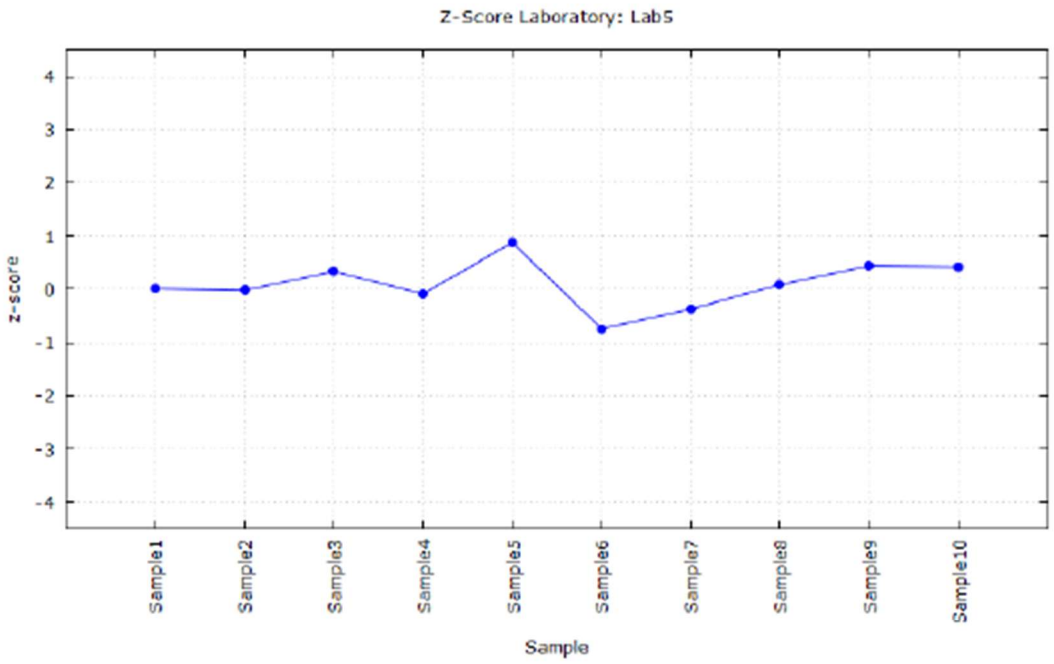

Z-Score Sample: Sample10
z-score
4
3
2
1
0
-1
-2
-3
-4
Lab1
Lab2
Lab3
Lab4
Lab5
Lab6
Lab7
Laboratory

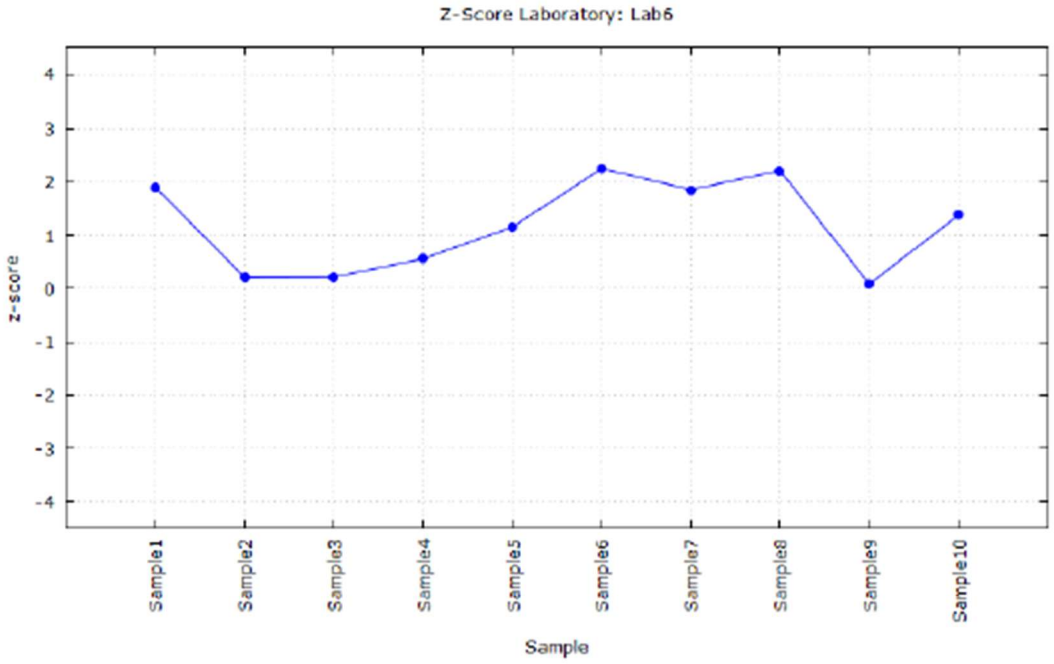

Z-Score Laboratory: Lab1
z-score
4
3
2
1
0
-1
-2
-3
-4
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10
Sample


Z-Score Laboratory: Lab2
z-score
4
3
2
1
0
-1
-2
-3
-4
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10
Sample


Z-Score Laboratory: Lab3
z-score
4
3
2
1
0
-1
-2
-3
-4
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10
Sample


Z-Score Laboratory: Lab4
z-score
4
3
2
1
0
-1
-2
-3
-4
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10
Sample


Z-Score Laboratory: Lab5
z-score
4
3
2
1
0
-1
-2
-3
-4
Sample1
Sample2
Sample3
Sample4
Sample5
Sample6
Sample7
Sample8
Sample9
Sample10
Sample


Z-Score Laboratory: Lab6
z-score
4
3
2
1
0
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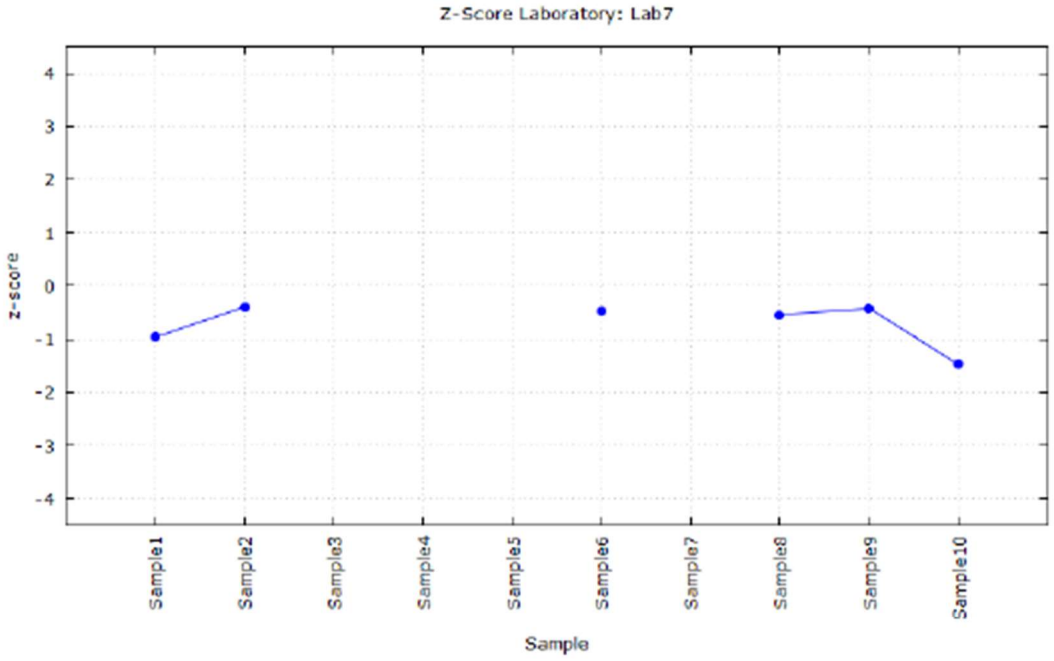
Z-Score Laboratory: Lab7
z-score
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APPENDIX E – ILS INSTRUCTIONS

This appendix provides a procedural guide for all ILS participating labs, covering required materials, refrigeration and sample-handling requirements, template setup using provided reference files and ASTM D6730, run order expectations, and timely submission of raw data and results through ASANA.

- Required Materials and Documents

Participating labs were expected to receive 3 SDSs: one for the generic gasoline samples, one for the QT2 and OXY standard, and one for the PONA 7-G standard (lot #090116Z). Labs should have also received all files needed to update their unit's template. Each GC setup should receive 20 amber 2 mL ampoules of gasoline, which must be placed under refrigeration. Each participating setup should also receive 3 standard ampoules, with the possibility of receiving up to 3 sets of standards; these must also be refrigerated.

The standards identified are:

- CS-CRC-053-QT2 — Aromatic standard.
- CS-CRC-053-OXY — PIANO blend with oxygenates.
- PONA-7-G — PONA standard.

- Sample Storage

Sample refrigeration temperature should be maintained at least 4°C (39°F).

- Template Setup Guidance

For users without Hydrocarbon Expert software and for users with Hydrocarbon Expert software using either FID or MS, a series of files were sent. These included, QT2 PDF and Excel component list, the OXY PDF and Excel component list, and the PONA PDF/component list. Labs should have verified that compounds in their system match the provided files, because those files served as the basis for the template. Instructions also directed users to reference ASTM D6730 and its appendix if needed.

- Run Order and Testing

Labs received a run order list to confirm that the correct ampoule was being used. Samples should have been run in sets of four at a time, for a total of five sets of four. A separate slide notes that samples should have ideally be run together in one batch and in the specified order; if the order changed or split, labs should contact Sarah Goralski for help developing an acceptable run order.

- Data Collection and Reporting

Labs received a data collection form and a report form for C6–C14 wt% aromatics plus PMI, with values rounded to five significant figures. The presentation notes that PMI is optional. Raw data collection was asked to be completed within two months from the start of testing. Labs were expected to provide the raw data and results form for each test method and upload the information to ASANA.

- General Testing Condition

Testing should have been carried out under normal conditions, using operators with good experience but not exceptional knowledge, and with a normal test duration.