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Data Validation Report

Project:	Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling	
Laboratory:	Test America, Knoxville, Tennessee	
Service Request:	580-77110-3	
Analyses/Method:	Chlorinated Biphenyls by HRGC/HRMS / E1668A	
Validation Level:	Stage 2A	
AECOM Project Number:	60566335.2.12	
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Reviewed by:	Paula DiMattei/AECOM	File Name: 580-77110-3_DVR

SUMMARY

The samples listed below were collected by AECOM in Portland Harbor in Portland, OR on May 4 and 5, 2018.

Sample ID	Matrix/Sample Type
PDI-RB-VV-180505	Equipment Blank
PDI-SG-S145-D	Field Duplicate of PDI-SG-S145
PDI-SG-S005	Sediment
PDI-SG-S006	Sediment
PDI-SG-S008	Sediment
PDI-SG-S009	Sediment
PDI-SG-S018	Sediment
PDI-SG-S023	Sediment
PDI-SG-S035	Sediment
PDI-SG-S048	Sediment
PDI-SG-S056	Sediment
PDI-SG-S067	Sediment
PDI-SG-S068	Sediment
PDI-SG-S069	Sediment
PDI-SG-S071	Sediment
PDI-SG-S108	Sediment
PDI-SG-S130	Sediment
PDI-SG-S131	Sediment
PDI-SG-S133	Sediment
PDI-SG-S134	Sediment
PDI-SG-S143	Sediment
PDI-SG-S145	Sediment

Sample ID	Matrix/Sample Type
PDI-SG-S152	Sediment
PDI-SG-S169	Sediment
PDI-SG-S170	Sediment
PDI-SG-S173	Sediment
PDI-SG-S177	Sediment
PDI-SG-S178	Sediment
PDI-SG-S180	Sediment

Data validation activities were conducted with reference to:

- *EPA Method 1668A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS* (USEPA, August 2003),
- *USEPA Contract Laboratory Program National Functional Guidelines for High Resolution Superfund Methods Data Review* (April 2016),
- *Quality Assurance Project Plan, Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site (March 2018),* and the
- laboratory quality control (QC) limits.

The National Functional Guidelines were modified to accommodate the non-CLP methodologies. In the absence of method-specific information, laboratory QC limits, project-specific requirements and/or AECOM professional judgment were used as appropriate.

REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

✓ Data completeness (chain-of-custody (COC)/sample integrity
✓ Holding times and sample preservation
✗ Laboratory blanks/equipment blanks
✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results
✓ Ongoing precision and recovery results
✗ Field duplicate results
✗ Labeled compounds and labeled clean-up standard recoveries
✗ Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. An NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that a QC nonconformance resulted in the qualification of data. Any QC nonconformance that resulted in the qualification of data is discussed below. In addition, nonconformances or other issues that were noted during validation, but did not result in qualification of data, may be discussed for informational purposes only.

The data appear valid as qualified and may be used for decision making purposes. Select data points were qualified as estimated and/or negated, due to nonconformances of certain QC criteria (see discussion below). Qualified sample results are presented in Table 1.

RESULTS

Data Completeness (COC)/Sample Integrity

The data package was reviewed and found to meet acceptance criteria for completeness:

- The COCs were reviewed for completeness of information relevant to the samples and requested analyses, and for signatures indicating transfer of sample custody.
- The laboratory sample login sheet(s) were reviewed for issues potentially affecting sample integrity, including the condition of sample containers upon receipt at the laboratory.
- Completeness of analyses was verified by comparing the reported results to the COC requests.

The following samples were received at the laboratory without a sample collection date documented on the chain of custody:

PDI-SG-S152 (580-77110-14), PDI-SG-S169 (580-77110-15), PDI-SG-S170 (580-77110-16), PDI-SG-S173 (580-77110-17), PDI-SG-S177 (580-77110-18), PDI-SG-S178 (580-77110-19), PDI-SG-S035 (580-77110-20), PDI-SG-S023 (580-77110-21), PDI-SG-S018 (580-77110-22), PDI-SG-S005 (580-77110-23) and PDI-SG-S008 (580-77110-24). The sample dates were logged in according to the sample container labels and confirmed by AECOM.

Holding Times and Sample Preservation

Sample preservation and preparation/analysis holding times were reviewed for conformance with method criteria. All method QC acceptance criteria were met.

Laboratory Blanks/Equipment Blanks

Method and equipment rinsate blank results are evaluated as to whether there are contaminants detected above the estimated detection limit (EDL).

Target compounds were detected in the laboratory method blanks and the equipment blanks associated with the samples in this data set. The equipment blank contamination, after laboratory method blank actions were applied, is summarized below for informational purposes only.

Blank ID	Compound	Result	ML	Units
PDI-RB-VV-180505	PCB-101	0.0037	0.000089	ng/L
PDI-RB-VV-180505	PCB-113	0.0037	0.000089	ng/L
PDI-RB-VV-180505	PCB-118	0.0044	0.00029	ng/L
PDI-RB-VV-180505	PCB-129	0.0098	0.00038	ng/L
PDI-RB-VV-180505	PCB-132	0.0031	0.00049	ng/L
PDI-RB-VV-180505	PCB-138	0.0098	0.00038	ng/L
PDI-RB-VV-180505	PCB-147	0.0054	0.00048	ng/L
PDI-RB-VV-180505	PCB-149	0.0054	0.00048	ng/L
PDI-RB-VV-180505	PCB-153	0.0040	0.00033	ng/L
PDI-RB-VV-180505	PCB-160	0.0098	0.00038	ng/L
PDI-RB-VV-180505	PCB-163	0.0098	0.00038	ng/L
PDI-RB-VV-180505	PCB-168	0.0040	0.00033	ng/L

Blank ID	Compound	Result	ML	Units
PDI-RB-VV-180505	PCB-18	0.0031	0.00095	ng/L
PDI-RB-VV-180505	PCB-180	0.0019	0.000070	ng/L
PDI-RB-VV-180505	PCB-187	0.0025	0.000077	ng/L
PDI-RB-VV-180505	PCB-193	0.0019	0.000070	ng/L
PDI-RB-VV-180505	PCB-20	0.0037	0.00089	ng/L
PDI-RB-VV-180505	PCB-28	0.0037	0.00089	ng/L
PDI-RB-VV-180505	PCB-30	0.0031	0.00095	ng/L
PDI-RB-VV-180505	PCB-31	0.0030	0.00087	ng/L
PDI-RB-VV-180505	PCB-61	0.0020	0.00058	ng/L
PDI-RB-VV-180505	PCB-68	0.0012	0.00055	ng/L
PDI-RB-VV-180505	PCB-70	0.0020	0.00058	ng/L
PDI-RB-VV-180505	PCB-74	0.0020	0.00058	ng/L
PDI-RB-VV-180505	PCB-76	0.0020	0.00058	ng/L
PDI-RB-VV-180505	PCB-83	0.0025	0.00011	ng/L
PDI-RB-VV-180505	PCB-90	0.0037	0.000089	ng/L
PDI-RB-VV-180505	PCB-99	0.0025	0.00011	ng/L

Detected compounds in the laboratory method blanks are summarized in Attachment A in Table A-1.

The NFG guidance stipulates that a conservative approach should be taken with regards to qualification of PCB congeners due to the toxicity of these compounds and the reporting of false negative results should be avoided. Therefore, in order to avoid the reporting of false negative results professional judgment was used to qualify the data in the following manner. As allowed in the NFG, a blank action limit (BAL) was determined as 5 times the blank result:

- When the sample results were < the blank result, the sample result was qualified as nondetect (U) at the sample result.
- When the sample result was $\geq$ the blank result and $\leq$ the BAL, the sample result was qualified as estimated and potentially biased high (J+).
- When the sample result was > the BAL, the sample result was not qualified.

Qualified sample results are summarized in Table 1.

MS/MSD Results

The MS/MSD percent recoveries (%Rs) and relative percent differences (RPDs) were reviewed for conformance with the QC acceptance criteria.

Nonconformances are summarized in Attachment A in Table A-2. Samples were qualified as follows:

Actions: (Based on AECOM professional judgment in the absence of NFG guidance)

Qualify results	MS/MSD %Rs			MS/MSD RPD
	<10% R*	10%R to Lower Limit	>Upper Limit	> QC Limit
Detected Results	J-	J-	J+	J
Non-Detected Results	R	UJ	Accept	Accept
*AECOM professional judgment used to establish a minimum criterion of 10% R				
Notes: Qualifications should be applied to the affected compound in the unspiked sample only unless all data appear to be impacted. If the sample result is > 4x the spike added concentration, no action is taken based on AECOM professional judgment.				

Qualified sample results are shown in Table 1.

Ongoing Precision and Recovery

The OPR %Rs and/or RPDs were reviewed for conformance with the method QC acceptance criteria. All method QC acceptance criteria were met.

Field Duplicate Results

Field duplicate RPDs were reviewed for conformance with the AECOM QC acceptance criteria of ≤ 50% [if one or both results were greater than five times the minimum level (ML)] for solid matrices and ≤ 30% [if one or both results were greater than five times the ML] for aqueous matrices.

Nonconformances are summarized in Attachment A in Table A-3. Samples were qualified as follows:

Actions: (Based on AECOM professional judgment)

Criteria	RPD	Action	
		Detect	Nondetect
Sample and duplicate are nondetect results	Not calculable (NC)	No qualification	No qualification
Sample and duplicate results <ML	Not applicable	No qualification	No qualification
Sample and duplicate results ≥5xML	>30% Aqueous >50% All other sample types	J	Not Applicable
Sample and duplicate results are >ML and <5xML	>60% Aqueous >100% All other sample types	J	Not Applicable
If sample or duplicate result is >5xML and the other is not detected	NC	J	UJ
If sample or duplicate result is <ML and the other is not detected	NC	No qualification	No qualification

Qualified sample results are summarized in Table 1.

Labeled Compounds and Labeled Clean-up Standard Recoveries

The labeled compounds and labeled clean-up standard %Rs were reviewed for conformance with the QC acceptance criteria.

Ion suppression affected the following labeled compound in sample:

PDI-SG-S178: PCB-54L

Professional judgement was used to qualify the associated results as estimated (J/UJ). The qualified sample results are summarized in Table 1.

Sample Results/Reporting Issues

During the Stage 4 data validation, it was discovered that the ion ratio QC limits entered into the laboratory's CHROM data system were incorrect for PCB-5 and PCB-159. Additionally, it was discovered that the CHROM data system did not always provide the area for one of the two ions when manually assigned by the analyst and this resulted in the ion ratio being reported as 0. A database query was performed by the laboratory to determine which results were impacted by these errors. The laboratory updated the CHROM data system to correct for these issues and affected samples were reprocessed. For samples analyzed after the discovery of these issues, all lab reports will indicate the correct QC limits for the ion ratios for PCB 5 and PCB 159. As an additional precaution, the laboratory continues to monitor the sample results in order to ensure all peak areas are being provided by the CHROM data system and the incidence of missing area results no longer exists.

It should be noted, that sample or standard results were not reprocessed for the following instances since the sample concentration or final reported result were not impacted.

- The PCB congener detected in a sample was determined to be found at a concentration that was less than the EDL. Consequently, the result is reported as not detected.
- The PCB congener was calculated and reported correctly in spite of the incorrect QC limit noted in the CHROM data system.

For the scenarios listed above, the ion ratio QC limits reported in the laboratory report will not reflect the corrected change to the CHROM data system.

All sample results detected at concentrations less than the lowest calibration standard but greater than the EDL are qualified by the laboratory as estimated (J). This “J” qualifier is retained during data validation.

The laboratory qualified the sample results with a "q" to indicate that the ion abundance ratio was outside of the QC acceptance limits; the result should be considered as an Estimated Maximum Possible Concentration (EMPC). These results were qualified as estimated and tentatively identified (JN). Qualified sample results are summarized in Table 1.

It should be noted that the "JN" qualifier was retained rather than replacement with the conventional overall "J" qualifier in instances where sample results were qualified for multiple quality control nonconformances.

The laboratory qualified the sample results with an "S" to indicate the presence of ion suppression. These results were qualified as estimated and potentially biased low (J-). Qualified sample results are summarized in Table 1.

The laboratory narrated that following sample was observed to have a slight peak shifting due to sample matrix resulting in PCB 144 having the end of the chromatographic peak truncated by the instrument Multiple Ion Detection (MID) switch point: PDI-SG-S178 (580-77110-19). The result for PCB 144 in sample PDI-SG-S178 was qualified as estimated and potentially biased low (J-). The qualified sample result is summarized in Table 1.

Percent Solids Content

The percent solids data were reviewed since the amount of moisture in a solid sample may have an impact on data representativeness. Due to the extremely low solubility of PCB congeners in water, these analytes should be contained in the solid phase. Consequently, the NFG guidance does not stipulate a percent solids criterion. If applicable, EPA Regional guidance is used when assessing percent solids content. In the absence of EPA Regional guidance, AECOM uses 30% solids (from the NFG semivolatile guidance) as a benchmark to evaluate the percent solids content and professional judgment is used to determine the necessity to qualify data. Data were not qualified on the basis of percent solids content.

Samples were analyzed at dilutions as a result of the elevated concentrations of target analytes present in the sample. The sample quantitation limits were raised accordingly.

Sample	Dilution
PDI-SG-S068	2X
PDI-SG-S067	10X
PDI-SG-S170	30X
PDI-SG-S173	8X
PDI-SG-S005	10X
PDI-SG-S145	10X
PDI-SG-S145-D	10X

QUALIFICATION ACTIONS

Sample results qualified as a result of validation actions are summarized in Table 1. All actions are described above.

ATTACHMENTS

Attachment A: Nonconformance Summary Tables

Attachment B: Qualifier Codes and Explanations

Attachment C: Reason Codes and Explanations

Table 1 - Data Validation Summary of Qualified Data

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-RB-VV-180505	WQ	PCB-101	0.0037	0.000089	ng/L	JN	bl,k
PDI-RB-VV-180505	WQ	PCB-11		0.025	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-110		0.0028	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-113	0.0037	0.000089	ng/L	JN	bl,k
PDI-RB-VV-180505	WQ	PCB-115		0.0028	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-129	0.0098	0.00038	ng/L	J+	bl
PDI-RB-VV-180505	WQ	PCB-132	0.0031	0.00049	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-138	0.0098	0.00038	ng/L	J+	bl
PDI-RB-VV-180505	WQ	PCB-153	0.0040	0.00033	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-156		0.0012	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-157		0.0012	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-160	0.0098	0.00038	ng/L	J+	bl
PDI-RB-VV-180505	WQ	PCB-163	0.0098	0.00038	ng/L	J+	bl
PDI-RB-VV-180505	WQ	PCB-168	0.0040	0.00033	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-18	0.0031	0.00095	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-180	0.0019	0.000070	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-183		0.0026	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-185		0.0026	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-187	0.0025	0.000077	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-193	0.0019	0.000070	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-20	0.0037	0.00089	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-28	0.0037	0.00089	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-30	0.0031	0.00095	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-44		0.013	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-47		0.013	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-61	0.0020	0.00058	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-65		0.013	ng/L	U	bl
PDI-RB-VV-180505	WQ	PCB-68	0.0012	0.00055	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-70	0.0020	0.00058	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-74	0.0020	0.00058	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-76	0.0020	0.00058	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-83	0.0025	0.00011	ng/L	JN	k
PDI-RB-VV-180505	WQ	PCB-90	0.0037	0.000089	ng/L	JN	bl,k
PDI-RB-VV-180505	WQ	PCB-99	0.0025	0.00011	ng/L	JN	k
PDI-SG-S005	SE	PCB-10	0.013	0.0022	ng/g	JN	k
PDI-SG-S005	SE	PCB-112	0.012	0.00069	ng/g	JN	k
PDI-SG-S005	SE	PCB-12	0.076	0.0019	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S005	SE	PCB-126	0.011	0.0062	ng/g	JN	k
PDI-SG-S005	SE	PCB-13	0.076	0.0019	ng/g	JN	k
PDI-SG-S005	SE	PCB-145	0.0022	0.00055	ng/g	JN	k
PDI-SG-S005	SE	PCB-150	0.0043	0.00049	ng/g	JN	k
PDI-SG-S005	SE	PCB-152	0.0017	0.00053	ng/g	JN	k
PDI-SG-S005	SE	PCB-154	0.031	0.00064	ng/g	JN	k
PDI-SG-S005	SE	PCB-171	0.10	0.000099	ng/g	JN	k
PDI-SG-S005	SE	PCB-173	0.10	0.000099	ng/g	JN	k
PDI-SG-S005	SE	PCB-175	0.012	0.000092	ng/g	JN	k
PDI-SG-S005	SE	PCB-191	0.011	0.000066	ng/g	JN	k
PDI-SG-S005	SE	PCB-195	0.066	0.0021	ng/g	JN	k
PDI-SG-S005	SE	PCB-197	0.0051	0.00035	ng/g	JN	k
PDI-SG-S005	SE	PCB-200	0.018	0.00038	ng/g	JN	k
PDI-SG-S005	SE	PCB-205	0.0073	0.0014	ng/g	JN	k
PDI-SG-S005	SE	PCB-209 (decachlorobiphenyl)	0.064	0.00056	ng/g	JN	k
PDI-SG-S005	SE	PCB-34	0.033	0.011	ng/g	JN	k
PDI-SG-S005	SE	PCB-35	0.022	0.011	ng/g	JN	k
PDI-SG-S005	SE	PCB-54	0.011	0.00025	ng/g	JN	k
PDI-SG-S005	SE	PCB-9	0.028	0.0023	ng/g	JN	k
PDI-SG-S006	SE	PCB-120	0.015	0.00056	ng/g	JN	k
PDI-SG-S006	SE	PCB-150	0.0022	0.00051	ng/g	JN	k
PDI-SG-S006	SE	PCB-152	0.0032	0.00055	ng/g	JN	k
PDI-SG-S006	SE	PCB-197	0.0091	0.00091	ng/g	JN	k
PDI-SG-S006	SE	PCB-206	0.28	0.0047	ng/g	JN	k
PDI-SG-S006	SE	PCB-43	0.073	0.0048	ng/g	JN	k
PDI-SG-S006	SE	PCB-46	0.10	0.0066	ng/g	JN	k
PDI-SG-S006	SE	PCB-54	0.0083	0.000052	ng/g	JN	k
PDI-SG-S006	SE	PCB-58	0.0062	0.0036	ng/g	JN	k
PDI-SG-S006	SE	PCB-67	0.046	0.0034	ng/g	JN	k
PDI-SG-S006	SE	PCB-7	0.0058	0.00086	ng/g	JN	k
PDI-SG-S006	SE	PCB-73	0.073	0.0048	ng/g	JN	k
PDI-SG-S006	SE	PCB-9	0.0086	0.0010	ng/g	JN	k
PDI-SG-S008	SE	PCB-10	0.0025	0.00048	ng/g	J+	bl
PDI-SG-S008	SE	PCB-100	0.012	0.00043	ng/g	JN	k
PDI-SG-S008	SE	PCB-112	0.0040	0.00030	ng/g	JN	k
PDI-SG-S008	SE	PCB-120	0.0028	0.00027	ng/g	JN	k
PDI-SG-S008	SE	PCB-131	0.0034	0.0013	ng/g	JN	k
PDI-SG-S008	SE	PCB-139	0.0060	0.0011	ng/g	JN	k
PDI-SG-S008	SE	PCB-140	0.0060	0.0011	ng/g	JN	k
PDI-SG-S008	SE	PCB-145	0.00021	0.00010	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S008	SE	PCB-152	0.00089	0.000097	ng/g	JN	k
PDI-SG-S008	SE	PCB-155	0.00036	0.000092	ng/g	JN	bl,k
PDI-SG-S008	SE	PCB-189	0.0042	0.00039	ng/g	JN	k
PDI-SG-S008	SE	PCB-191	0.0040	0.000032	ng/g	JN	k
PDI-SG-S008	SE	PCB-208	0.017	0.00068	ng/g	JN	k
PDI-SG-S008	SE	PCB-27	0.012	0.00032	ng/g	JN	k
PDI-SG-S008	SE	PCB-39	0.0018	0.00096	ng/g	JN	k
PDI-SG-S008	SE	PCB-58	0.0012	0.00049	ng/g	JN	k
PDI-SG-S008	SE	PCB-67	0.0050	0.00047	ng/g	JN	k
PDI-SG-S008	SE	PCB-93	0.012	0.00043	ng/g	JN	k
PDI-SG-S008	SE	PCB-94	0.0031	0.00046	ng/g	JN	k
PDI-SG-S009	SE	PCB-100	0.013	0.00073	ng/g	JN	k
PDI-SG-S009	SE	PCB-103	0.0045	0.00067	ng/g	JN	k
PDI-SG-S009	SE	PCB-107	0.030	0.0016	ng/g	JN	k
PDI-SG-S009	SE	PCB-114	0.0075	0.0015	ng/g	JN	k
PDI-SG-S009	SE	PCB-12	0.0062	0.00092	ng/g	JN	k
PDI-SG-S009	SE	PCB-120	0.0026	0.00046	ng/g	JN	k
PDI-SG-S009	SE	PCB-123	0.0071	0.0015	ng/g	JN	k
PDI-SG-S009	SE	PCB-13	0.0062	0.00092	ng/g	JN	k
PDI-SG-S009	SE	PCB-131	0.0045	0.0016	ng/g	JN	k
PDI-SG-S009	SE	PCB-148	0.0022	0.00061	ng/g	JN	k
PDI-SG-S009	SE	PCB-150	0.00072	0.00041	ng/g	JN	k
PDI-SG-S009	SE	PCB-154	0.0079	0.00053	ng/g	JN	k
PDI-SG-S009	SE	PCB-159	0.0043	0.00097	ng/g	JN	k
PDI-SG-S009	SE	PCB-16	0.015	0.00062	ng/g	JN	k
PDI-SG-S009	SE	PCB-17	0.030	0.00047	ng/g	JN	k
PDI-SG-S009	SE	PCB-177	0.086	0.00070	ng/g	JN	k
PDI-SG-S009	SE	PCB-189	0.0049	0.00059	ng/g	JN	k
PDI-SG-S009	SE	PCB-197	0.0019	0.00036	ng/g	JN	k
PDI-SG-S009	SE	PCB-200	0.0088	0.00040	ng/g	JN	k
PDI-SG-S009	SE	PCB-201	0.0074	0.00038	ng/g	JN	k
PDI-SG-S009	SE	PCB-206	0.089	0.0024	ng/g	JN	k
PDI-SG-S009	SE	PCB-207	0.0050	0.0016	ng/g	JN	k
PDI-SG-S009	SE	PCB-27	0.0074	0.00035	ng/g	JN	k
PDI-SG-S009	SE	PCB-54	0.0037	0.000063	ng/g	JN	k
PDI-SG-S009	SE	PCB-63	0.0078	0.00090	ng/g	JN	k
PDI-SG-S009	SE	PCB-67	0.0045	0.00096	ng/g	JN	k
PDI-SG-S009	SE	PCB-68		0.0019	ng/g	U	bl
PDI-SG-S009	SE	PCB-7	0.0030	0.00095	ng/g	JN	k
PDI-SG-S009	SE	PCB-93	0.013	0.00073	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S009	SE	PCB-96	0.0039	0.00058	ng/g	JN	k
PDI-SG-S018	SE	PCB-10	0.0021	0.00077	ng/g	JN	bl,k
PDI-SG-S018	SE	PCB-103	0.0097	0.00051	ng/g	JN	k
PDI-SG-S018	SE	PCB-107	0.034	0.0016	ng/g	JN	k
PDI-SG-S018	SE	PCB-108	0.010	0.0016	ng/g	JN	k
PDI-SG-S018	SE	PCB-111	0.0018	0.00036	ng/g	JN	k
PDI-SG-S018	SE	PCB-112	0.0015	0.00039	ng/g	JN	k
PDI-SG-S018	SE	PCB-114	0.0068	0.0014	ng/g	JN	k
PDI-SG-S018	SE	PCB-12	0.010	0.00065	ng/g	JN	k
PDI-SG-S018	SE	PCB-122	0.0054	0.0018	ng/g	JN	k
PDI-SG-S018	SE	PCB-123	0.0052	0.0015	ng/g	JN	k
PDI-SG-S018	SE	PCB-124	0.010	0.0016	ng/g	JN	k
PDI-SG-S018	SE	PCB-13	0.010	0.00065	ng/g	JN	k
PDI-SG-S018	SE	PCB-148	0.0018	0.00041	ng/g	JN	k
PDI-SG-S018	SE	PCB-150	0.0023	0.00028	ng/g	JN	k
PDI-SG-S018	SE	PCB-152	0.00069	0.00029	ng/g	JN	k
PDI-SG-S018	SE	PCB-179	0.079	0.00048	ng/g	J-	su
PDI-SG-S018	SE	PCB-18	0.073	0.00039	ng/g	J-	su
PDI-SG-S018	SE	PCB-182	0.0025	0.00056	ng/g	JN	k
PDI-SG-S018	SE	PCB-189	0.0067	0.00066	ng/g	JN	k
PDI-SG-S018	SE	PCB-19	0.022	0.00055	ng/g	JN	k
PDI-SG-S018	SE	PCB-191	0.0063	0.00044	ng/g	JN	k
PDI-SG-S018	SE	PCB-197	0.0031	0.00069	ng/g	JN	k
PDI-SG-S018	SE	PCB-200	0.013	0.00076	ng/g	JN	k
PDI-SG-S018	SE	PCB-207	0.012	0.0014	ng/g	J-	su
PDI-SG-S018	SE	PCB-24	0.0014	0.00034	ng/g	JN	k
PDI-SG-S018	SE	PCB-30	0.073	0.00039	ng/g	J-	su
PDI-SG-S018	SE	PCB-34	0.0012	0.0011	ng/g	JN	k
PDI-SG-S018	SE	PCB-35	0.0030	0.0010	ng/g	JN	k
PDI-SG-S018	SE	PCB-43	0.011	0.0011	ng/g	JN	k
PDI-SG-S018	SE	PCB-54	0.0052	0.000041	ng/g	JN	k
PDI-SG-S018	SE	PCB-73	0.011	0.0011	ng/g	JN	k
PDI-SG-S018	SE	PCB-79	0.0036	0.00072	ng/g	JN	k
PDI-SG-S018	SE	PCB-8	0.047	0.00069	ng/g	J-	su
PDI-SG-S018	SE	PCB-96	0.0040	0.00044	ng/g	JN	k
PDI-SG-S023	SE	PCB-10	0.0016	0.00074	ng/g	JN	bl,k
PDI-SG-S023	SE	PCB-100	0.015	0.00050	ng/g	JN	k
PDI-SG-S023	SE	PCB-12	0.0052	0.00063	ng/g	JN	k
PDI-SG-S023	SE	PCB-13	0.0052	0.00063	ng/g	JN	k
PDI-SG-S023	SE	PCB-145	0.0022	0.00039	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S023	SE	PCB-150	0.0014	0.00035	ng/g	JN	k
PDI-SG-S023	SE	PCB-17	0.023	0.00036	ng/g	JN	k
PDI-SG-S023	SE	PCB-179	0.71	0.00024	ng/g	J-	su
PDI-SG-S023	SE	PCB-3	0.0051	0.00031	ng/g	JN	k
PDI-SG-S023	SE	PCB-46	0.0056	0.0022	ng/g	JN	k
PDI-SG-S023	SE	PCB-54	0.0049	0.000038	ng/g	JN	k
PDI-SG-S023	SE	PCB-55	0.0015	0.0012	ng/g	JN	k
PDI-SG-S023	SE	PCB-68	0.0018	0.0011	ng/g	JN	bl,k
PDI-SG-S023	SE	PCB-8	0.024	0.00067	ng/g	J-	su
PDI-SG-S023	SE	PCB-9	0.0020	0.00076	ng/g	JN	k
PDI-SG-S023	SE	PCB-93	0.015	0.00050	ng/g	JN	k
PDI-SG-S035	SE	PCB-10	0.0026	0.00080	ng/g	JN	bl,k
PDI-SG-S035	SE	PCB-152	0.013	0.0019	ng/g	JN	k
PDI-SG-S035	SE	PCB-206	2.6	0.0096	ng/g	JN	k
PDI-SG-S035	SE	PCB-5	0.0031	0.00075	ng/g	JN	k
PDI-SG-S035	SE	PCB-63	0.042	0.0024	ng/g	JN	k
PDI-SG-S035	SE	PCB-68	0.035	0.0024	ng/g	JN	k
PDI-SG-S035	SE	PCB-79	0.054	0.0023	ng/g	JN	k
PDI-SG-S048	SE	PCB-102	0.014	0.00078	ng/g	JN	k
PDI-SG-S048	SE	PCB-103	0.0084	0.00072	ng/g	JN	k
PDI-SG-S048	SE	PCB-111	0.0014	0.00050	ng/g	JN	k
PDI-SG-S048	SE	PCB-112	0.0034	0.00055	ng/g	JN	k
PDI-SG-S048	SE	PCB-114	0.0047	0.0019	ng/g	JN	k
PDI-SG-S048	SE	PCB-120	0.0019	0.00050	ng/g	JN	k
PDI-SG-S048	SE	PCB-122	0.0051	0.0023	ng/g	JN	k
PDI-SG-S048	SE	PCB-130	0.028	0.0015	ng/g	JN	k
PDI-SG-S048	SE	PCB-134	0.022	0.0015	ng/g	JN	k
PDI-SG-S048	SE	PCB-143	0.022	0.0015	ng/g	JN	k
PDI-SG-S048	SE	PCB-148	0.0021	0.00045	ng/g	JN	k
PDI-SG-S048	SE	PCB-150	0.0018	0.00030	ng/g	JN	k
PDI-SG-S048	SE	PCB-152	0.00048	0.00032	ng/g	JN	k
PDI-SG-S048	SE	PCB-154	0.013	0.00039	ng/g	JN	k
PDI-SG-S048	SE	PCB-155	0.00037	0.00031	ng/g	JN	k
PDI-SG-S048	SE	PCB-171	0.041	0.00085	ng/g	JN	k
PDI-SG-S048	SE	PCB-173	0.041	0.00085	ng/g	JN	k
PDI-SG-S048	SE	PCB-175	0.0051	0.00078	ng/g	JN	k
PDI-SG-S048	SE	PCB-19	0.027	0.00073	ng/g	JN	k
PDI-SG-S048	SE	PCB-2	0.013	0.00032	ng/g	JN	bl,k
PDI-SG-S048	SE	PCB-205	0.0037	0.00083	ng/g	JN	k
PDI-SG-S048	SE	PCB-206	0.12	0.0023	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S048	SE	PCB-207	0.0070	0.0015	ng/g	JN	k
PDI-SG-S048	SE	PCB-60	0.023	0.0012	ng/g	JN	k
PDI-SG-S048	SE	PCB-67	0.0039	0.0011	ng/g	JN	k
PDI-SG-S048	SE	PCB-68	0.0029	0.0010	ng/g	J+	bl
PDI-SG-S048	SE	PCB-7	0.0034	0.0014	ng/g	JN	k
PDI-SG-S048	SE	PCB-79	0.0023	0.00098	ng/g	JN	k
PDI-SG-S048	SE	PCB-84	0.062	0.00089	ng/g	JN	k
PDI-SG-S048	SE	PCB-94	0.0032	0.00084	ng/g	JN	k
PDI-SG-S048	SE	PCB-98	0.014	0.00078	ng/g	JN	k
PDI-SG-S056	SE	PCB-1	0.0031	0.00020	ng/g	J+	bl
PDI-SG-S056	SE	PCB-11	0.030	0.00056	ng/g	J+	bl
PDI-SG-S056	SE	PCB-112	0.00086	0.00035	ng/g	JN	k
PDI-SG-S056	SE	PCB-120	0.0020	0.00032	ng/g	JN	k
PDI-SG-S056	SE	PCB-130	0.017	0.00079	ng/g	JN	k
PDI-SG-S056	SE	PCB-139	0.0042	0.00066	ng/g	JN	k
PDI-SG-S056	SE	PCB-140	0.0042	0.00066	ng/g	JN	k
PDI-SG-S056	SE	PCB-15	0.011	0.00061	ng/g	JN	k
PDI-SG-S056	SE	PCB-152	0.00044	0.000041	ng/g	JN	k
PDI-SG-S056	SE	PCB-16	0.010	0.00022	ng/g	JN	k
PDI-SG-S056	SE	PCB-17	0.016	0.00017	ng/g	JN	k
PDI-SG-S056	SE	PCB-18	0.021	0.00015	ng/g	JN	k
PDI-SG-S056	SE	PCB-198	0.042	0.00018	ng/g	JN	k
PDI-SG-S056	SE	PCB-199	0.042	0.00018	ng/g	JN	k
PDI-SG-S056	SE	PCB-2	0.0064	0.00022	ng/g	J+	bl
PDI-SG-S056	SE	PCB-200	0.0058	0.00013	ng/g	JN	k
PDI-SG-S056	SE	PCB-201	0.0049	0.00013	ng/g	JN	k
PDI-SG-S056	SE	PCB-206	0.044	0.0011	ng/g	J	m,md
PDI-SG-S056	SE	PCB-26	0.011	0.00072	ng/g	JN	k
PDI-SG-S056	SE	PCB-27	0.0025	0.00013	ng/g	JN	k
PDI-SG-S056	SE	PCB-29	0.011	0.00072	ng/g	JN	k
PDI-SG-S056	SE	PCB-3	0.0030	0.00026	ng/g	JN	bl,k
PDI-SG-S056	SE	PCB-30	0.021	0.00015	ng/g	JN	k
PDI-SG-S056	SE	PCB-32	0.0087	0.00012	ng/g	JN	k
PDI-SG-S056	SE	PCB-43	0.0044	0.00069	ng/g	JN	k
PDI-SG-S056	SE	PCB-46	0.0041	0.00094	ng/g	JN	k
PDI-SG-S056	SE	PCB-55	0.0013	0.00052	ng/g	JN	k
PDI-SG-S056	SE	PCB-6	0.0030	0.00061	ng/g	JN	k
PDI-SG-S056	SE	PCB-60	0.0068	0.00052	ng/g	JN	k
PDI-SG-S056	SE	PCB-67	0.0015	0.00049	ng/g	JN	k
PDI-SG-S056	SE	PCB-68	0.0044	0.00046	ng/g	J+	bl

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S056	SE	PCB-73	0.0044	0.00069	ng/g	JN	k
PDI-SG-S056	SE	PCB-79	0.0014	0.00044	ng/g	JN	k
PDI-SG-S056	SE	PCB-94	0.0024	0.00054	ng/g	JN	k
PDI-SG-S056	SE	PCB-96	0.0015	0.00040	ng/g	JN	k
PDI-SG-S067	SE	PCB-1	0.0023	0.00047	ng/g	J+	bl
PDI-SG-S067	SE	PCB-100	0.0029	0.00089	ng/g	JN	k
PDI-SG-S067	SE	PCB-102	0.0028	0.00088	ng/g	JN	k
PDI-SG-S067	SE	PCB-107	0.0044	0.0012	ng/g	JN	k
PDI-SG-S067	SE	PCB-108	0.0025	0.0013	ng/g	JN	k
PDI-SG-S067	SE	PCB-11	0.017	0.00085	ng/g	JN	bl,k
PDI-SG-S067	SE	PCB-112	0.00087	0.00062	ng/g	JN	k
PDI-SG-S067	SE	PCB-114	0.0016	0.0011	ng/g	JN	k
PDI-SG-S067	SE	PCB-116	0.0099	0.00069	ng/g	JN	k
PDI-SG-S067	SE	PCB-117	0.0099	0.00069	ng/g	JN	k
PDI-SG-S067	SE	PCB-124	0.0025	0.0013	ng/g	JN	k
PDI-SG-S067	SE	PCB-130	0.014	0.0035	ng/g	JN	k
PDI-SG-S067	SE	PCB-137	0.0034	0.0028	ng/g	JN	k
PDI-SG-S067	SE	PCB-154	0.0041	0.00050	ng/g	JN	k
PDI-SG-S067	SE	PCB-16	0.0035	0.00018	ng/g	JN	k
PDI-SG-S067	SE	PCB-167	0.011	0.0015	ng/g	JN	k
PDI-SG-S067	SE	PCB-176	0.060	0.000060	ng/g	JN	k
PDI-SG-S067	SE	PCB-18	0.012	0.00012	ng/g	JN	k
PDI-SG-S067	SE	PCB-19	0.0030	0.00017	ng/g	JN	k
PDI-SG-S067	SE	PCB-2		0.0028	ng/g	U	bl
PDI-SG-S067	SE	PCB-207	0.013	0.0014	ng/g	JN	k
PDI-SG-S067	SE	PCB-27	0.0011	0.00010	ng/g	JN	k
PDI-SG-S067	SE	PCB-3	0.0023	0.00057	ng/g	JN	bl,k
PDI-SG-S067	SE	PCB-30	0.012	0.00012	ng/g	JN	k
PDI-SG-S067	SE	PCB-32	0.0041	0.000093	ng/g	J-	su
PDI-SG-S067	SE	PCB-37	0.0073	0.00058	ng/g	JN	k
PDI-SG-S067	SE	PCB-4	0.0091	0.0014	ng/g	JN	k
PDI-SG-S067	SE	PCB-42	0.0071	0.00076	ng/g	JN	k
PDI-SG-S067	SE	PCB-45	0.0070	0.00080	ng/g	JN	k
PDI-SG-S067	SE	PCB-48	0.0038	0.00072	ng/g	JN	k
PDI-SG-S067	SE	PCB-50	0.0052	0.00075	ng/g	JN	k
PDI-SG-S067	SE	PCB-51	0.0070	0.00080	ng/g	JN	k
PDI-SG-S067	SE	PCB-53	0.0052	0.00075	ng/g	JN	k
PDI-SG-S067	SE	PCB-54	0.00026	0.00012	ng/g	JN	k
PDI-SG-S067	SE	PCB-59	0.0019	0.00051	ng/g	JN	k
PDI-SG-S067	SE	PCB-62	0.0019	0.00051	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S067	SE	PCB-63	0.00095	0.00045	ng/g	JN	k
PDI-SG-S067	SE	PCB-68		0.0011	ng/g	U	bl
PDI-SG-S067	SE	PCB-7	0.0014	0.00089	ng/g	JN	k
PDI-SG-S067	SE	PCB-75	0.0019	0.00051	ng/g	JN	k
PDI-SG-S067	SE	PCB-79	0.00056	0.00043	ng/g	JN	k
PDI-SG-S067	SE	PCB-82	0.0071	0.00096	ng/g	JN	k
PDI-SG-S067	SE	PCB-85	0.0099	0.00069	ng/g	JN	k
PDI-SG-S067	SE	PCB-93	0.0029	0.00089	ng/g	JN	k
PDI-SG-S067	SE	PCB-98	0.0028	0.00088	ng/g	JN	k
PDI-SG-S068	SE	PCB-1	0.0011	0.00061	ng/g	JN	k
PDI-SG-S068	SE	PCB-100	0.0020	0.00057	ng/g	JN	k
PDI-SG-S068	SE	PCB-102	0.0029	0.00057	ng/g	JN	k
PDI-SG-S068	SE	PCB-103	0.0018	0.00052	ng/g	JN	k
PDI-SG-S068	SE	PCB-11	0.0091	0.00074	ng/g	JN	bl,k
PDI-SG-S068	SE	PCB-114	0.0015	0.00064	ng/g	JN	k
PDI-SG-S068	SE	PCB-12	0.0014	0.00074	ng/g	JN	k
PDI-SG-S068	SE	PCB-13	0.0014	0.00074	ng/g	JN	k
PDI-SG-S068	SE	PCB-130	0.0056	0.00089	ng/g	JN	k
PDI-SG-S068	SE	PCB-137	0.0027	0.00072	ng/g	JN	k
PDI-SG-S068	SE	PCB-139	0.0011	0.00075	ng/g	JN	k
PDI-SG-S068	SE	PCB-140	0.0011	0.00075	ng/g	JN	k
PDI-SG-S068	SE	PCB-144	0.0050	0.00010	ng/g	JN	k
PDI-SG-S068	SE	PCB-150	0.00012	0.000072	ng/g	JN	k
PDI-SG-S068	SE	PCB-154	0.0014	0.000093	ng/g	JN	k
PDI-SG-S068	SE	PCB-16	0.0093	0.00031	ng/g	JN	k
PDI-SG-S068	SE	PCB-175	0.0018	0.00019	ng/g	JN	k
PDI-SG-S068	SE	PCB-176	0.0071	0.00014	ng/g	JN	k
PDI-SG-S068	SE	PCB-18	0.022	0.00020	ng/g	JN	k
PDI-SG-S068	SE	PCB-187	0.068	0.00018	ng/g	JN	k
PDI-SG-S068	SE	PCB-19	0.0049	0.00029	ng/g	JN	k
PDI-SG-S068	SE	PCB-191	0.0021	0.00014	ng/g	JN	k
PDI-SG-S068	SE	PCB-196	0.010	0.00040	ng/g	JN	k
PDI-SG-S068	SE	PCB-197	0.00045	0.00028	ng/g	JN	k
PDI-SG-S068	SE	PCB-200	0.0027	0.00030	ng/g	JN	k
PDI-SG-S068	SE	PCB-201	0.0026	0.00029	ng/g	JN	k
PDI-SG-S068	SE	PCB-202	0.0051	0.00033	ng/g	JN	k
PDI-SG-S068	SE	PCB-206	0.076	0.0042	ng/g	JN	k
PDI-SG-S068	SE	PCB-24	0.00021	0.00018	ng/g	JN	k
PDI-SG-S068	SE	PCB-26	0.0061	0.00070	ng/g	JN	k
PDI-SG-S068	SE	PCB-27	0.0018	0.00017	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S068	SE	PCB-29	0.0061	0.00070	ng/g	JN	k
PDI-SG-S068	SE	PCB-3	0.0021	0.00080	ng/g	JN	bl,k
PDI-SG-S068	SE	PCB-30	0.022	0.00020	ng/g	JN	k
PDI-SG-S068	SE	PCB-32	0.0097	0.00016	ng/g	J-	su
PDI-SG-S068	SE	PCB-4	0.0052	0.0013	ng/g	JN	k
PDI-SG-S068	SE	PCB-42	0.011	0.00060	ng/g	JN	k
PDI-SG-S068	SE	PCB-43	0.0014	0.00054	ng/g	JN	k
PDI-SG-S068	SE	PCB-46	0.0032	0.00073	ng/g	JN	k
PDI-SG-S068	SE	PCB-63	0.0014	0.00036	ng/g	JN	k
PDI-SG-S068	SE	PCB-67	0.0011	0.00038	ng/g	JN	k
PDI-SG-S068	SE	PCB-7	0.0011	0.00077	ng/g	JN	k
PDI-SG-S068	SE	PCB-73	0.0014	0.00054	ng/g	JN	k
PDI-SG-S068	SE	PCB-82	0.0072	0.00062	ng/g	JN	k
PDI-SG-S068	SE	PCB-93	0.0020	0.00057	ng/g	JN	k
PDI-SG-S068	SE	PCB-94	0.00069	0.00061	ng/g	JN	k
PDI-SG-S068	SE	PCB-98	0.0029	0.00057	ng/g	JN	k
PDI-SG-S069	SE	PCB-102	0.0029	0.00027	ng/g	JN	k
PDI-SG-S069	SE	PCB-107	0.0054	0.00048	ng/g	JN	k
PDI-SG-S069	SE	PCB-12	0.0013	0.00042	ng/g	JN	k
PDI-SG-S069	SE	PCB-120	0.00059	0.00017	ng/g	JN	k
PDI-SG-S069	SE	PCB-123	0.00075	0.00044	ng/g	JN	k
PDI-SG-S069	SE	PCB-13	0.0013	0.00042	ng/g	JN	k
PDI-SG-S069	SE	PCB-144	0.0096	0.00014	ng/g	JN	k
PDI-SG-S069	SE	PCB-150	0.00021	0.000096	ng/g	JN	k
PDI-SG-S069	SE	PCB-154	0.0020	0.00012	ng/g	JN	k
PDI-SG-S069	SE	PCB-17	0.0087	0.00013	ng/g	JN	k
PDI-SG-S069	SE	PCB-18	0.017	0.00011	ng/g	JN	k
PDI-SG-S069	SE	PCB-197	0.0014	0.00015	ng/g	JN	k
PDI-SG-S069	SE	PCB-2	0.0028	0.00065	ng/g	JN	k
PDI-SG-S069	SE	PCB-201	0.0042	0.00016	ng/g	JN	k
PDI-SG-S069	SE	PCB-205	0.0015	0.00049	ng/g	JN	k
PDI-SG-S069	SE	PCB-206	0.020	0.00076	ng/g	JN	k
PDI-SG-S069	SE	PCB-209 (decachlorobiphenyl)	0.012	0.000045	ng/g	JN	k
PDI-SG-S069	SE	PCB-24	0.00046	0.000097	ng/g	JN	k
PDI-SG-S069	SE	PCB-25	0.0023	0.00047	ng/g	JN	k
PDI-SG-S069	SE	PCB-27	0.0017	0.000096	ng/g	JN	k
PDI-SG-S069	SE	PCB-3	0.0025	0.00068	ng/g	J+	bl
PDI-SG-S069	SE	PCB-30	0.017	0.00011	ng/g	JN	k
PDI-SG-S069	SE	PCB-32	0.0047	0.000088	ng/g	JN	k
PDI-SG-S069	SE	PCB-4	0.0047	0.00070	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S069	SE	PCB-43	0.0012	0.00039	ng/g	JN	k
PDI-SG-S069	SE	PCB-45	0.013	0.00045	ng/g	J+	bl
PDI-SG-S069	SE	PCB-51	0.013	0.00045	ng/g	J+	bl
PDI-SG-S069	SE	PCB-6	0.00080	0.00046	ng/g	JN	k
PDI-SG-S069	SE	PCB-60	0.0083	0.00029	ng/g	JN	k
PDI-SG-S069	SE	PCB-63	0.0015	0.00026	ng/g	JN	k
PDI-SG-S069	SE	PCB-67	0.00093	0.00028	ng/g	JN	k
PDI-SG-S069	SE	PCB-68	0.0023	0.00026	ng/g	J+	bl
PDI-SG-S069	SE	PCB-72	0.00045	0.00029	ng/g	JN	k
PDI-SG-S069	SE	PCB-73	0.0012	0.00039	ng/g	JN	k
PDI-SG-S069	SE	PCB-8	0.0053	0.00045	ng/g	JN	k
PDI-SG-S069	SE	PCB-82	0.0095	0.00030	ng/g	JN	k
PDI-SG-S069	SE	PCB-84	0.023	0.00031	ng/g	JN	k
PDI-SG-S069	SE	PCB-98	0.0029	0.00027	ng/g	JN	k
PDI-SG-S071	SE	PCB-103	0.0092	0.00055	ng/g	JN	k
PDI-SG-S071	SE	PCB-11	0.0061	0.00041	ng/g	J+	bl
PDI-SG-S071	SE	PCB-12	0.0013	0.00041	ng/g	JN	k
PDI-SG-S071	SE	PCB-122	0.0042	0.0011	ng/g	JN	k
PDI-SG-S071	SE	PCB-123	0.0039	0.00088	ng/g	JN	k
PDI-SG-S071	SE	PCB-13	0.0013	0.00041	ng/g	JN	k
PDI-SG-S071	SE	PCB-137	0.0039	0.00050	ng/g	JN	k
PDI-SG-S071	SE	PCB-139	0.0029	0.00052	ng/g	JN	k
PDI-SG-S071	SE	PCB-140	0.0029	0.00052	ng/g	JN	k
PDI-SG-S071	SE	PCB-150	0.00045	0.00026	ng/g	JN	k
PDI-SG-S071	SE	PCB-154	0.0039	0.00034	ng/g	JN	k
PDI-SG-S071	SE	PCB-170	0.049	0.00022	ng/g	JN	k
PDI-SG-S071	SE	PCB-175	0.0019	0.00021	ng/g	JN	k
PDI-SG-S071	SE	PCB-181	0.0010	0.00020	ng/g	JN	k
PDI-SG-S071	SE	PCB-189	0.0017	0.00027	ng/g	JN	k
PDI-SG-S071	SE	PCB-19	0.0044	0.00049	ng/g	JN	k
PDI-SG-S071	SE	PCB-191	0.0020	0.00015	ng/g	JN	k
PDI-SG-S071	SE	PCB-195	0.0095	0.00058	ng/g	JN	k
PDI-SG-S071	SE	PCB-201	0.0029	0.00019	ng/g	JN	k
PDI-SG-S071	SE	PCB-205	0.00099	0.00039	ng/g	JN	k
PDI-SG-S071	SE	PCB-206	0.024	0.0012	ng/g	JN	k
PDI-SG-S071	SE	PCB-27	0.0028	0.00030	ng/g	JN	k
PDI-SG-S071	SE	PCB-3	0.0016	0.0012	ng/g	JN	bl,k
PDI-SG-S071	SE	PCB-32	0.0098	0.00027	ng/g	JN	k
PDI-SG-S071	SE	PCB-43	0.026	0.0061	ng/g	JN	k
PDI-SG-S071	SE	PCB-48	0.032	0.0065	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S071	SE	PCB-73	0.026	0.0061	ng/g	JN	k
PDI-SG-S108	SE	PCB-10	0.0034	0.0012	ng/g	JN	k
PDI-SG-S108	SE	PCB-12	0.016	0.0010	ng/g	JN	k
PDI-SG-S108	SE	PCB-120	0.029	0.00039	ng/g	JN	k
PDI-SG-S108	SE	PCB-123	0.027	0.0094	ng/g	JN	k
PDI-SG-S108	SE	PCB-13	0.016	0.0010	ng/g	JN	k
PDI-SG-S108	SE	PCB-16	0.023	0.00073	ng/g	JN	k
PDI-SG-S108	SE	PCB-19	0.059	0.00069	ng/g	JN	k
PDI-SG-S108	SE	PCB-35	0.0020	0.0014	ng/g	JN	k
PDI-SG-S108	SE	PCB-46	0.0080	0.0048	ng/g	JN	k
PDI-SG-S108	SE	PCB-58	0.0042	0.0026	ng/g	JN	k
PDI-SG-S108	SE	PCB-60	0.030	0.0027	ng/g	JN	k
PDI-SG-S108	SE	PCB-68	0.0034	0.0024	ng/g	JN	bl,k
PDI-SG-S108	SE	PCB-72	0.0065	0.0027	ng/g	JN	k
PDI-SG-S108	SE	PCB-9	0.0035	0.0013	ng/g	JN	k
PDI-SG-S130	SE	PCB-106	0.022	0.019	ng/g	JN	k
PDI-SG-S130	SE	PCB-114	0.071	0.017	ng/g	JN	k
PDI-SG-S130	SE	PCB-182	0.084	0.0044	ng/g	JN	k
PDI-SG-S130	SE	PCB-2	0.055	0.0024	ng/g	JN	k
PDI-SG-S130	SE	PCB-206	5.8	0.11	ng/g	JN	k
PDI-SG-S130	SE	PCB-22	0.15	0.015	ng/g	JN	k
PDI-SG-S130	SE	PCB-3	0.038	0.0029	ng/g	JN	k
PDI-SG-S130	SE	PCB-38	0.044	0.014	ng/g	JN	k
PDI-SG-S130	SE	PCB-7	0.024	0.0048	ng/g	JN	k
PDI-SG-S130	SE	PCB-9	0.025	0.0056	ng/g	JN	k
PDI-SG-S131	SE	PCB-1	0.0037	0.00023	ng/g	JN	k
PDI-SG-S131	SE	PCB-104	0.0085	0.00027	ng/g	JN	k
PDI-SG-S131	SE	PCB-114	0.0047	0.0022	ng/g	JN	k
PDI-SG-S131	SE	PCB-12	0.0047	0.00047	ng/g	JN	k
PDI-SG-S131	SE	PCB-13	0.0047	0.00047	ng/g	JN	k
PDI-SG-S131	SE	PCB-145	0.0024	0.00018	ng/g	JN	k
PDI-SG-S131	SE	PCB-155	0.0015	0.00017	ng/g	JN	k
PDI-SG-S131	SE	PCB-16	0.0083	0.00066	ng/g	JN	k
PDI-SG-S131	SE	PCB-206	0.29	0.0016	ng/g	JN	k
PDI-SG-S131	SE	PCB-46	0.0029	0.0022	ng/g	JN	k
PDI-SG-S131	SE	PCB-48	0.0063	0.0017	ng/g	JN	k
PDI-SG-S131	SE	PCB-7	0.00083	0.00049	ng/g	JN	k
PDI-SG-S131	SE	PCB-9	0.0013	0.00057	ng/g	JN	k
PDI-SG-S131	SE	PCB-96	0.0075	0.00030	ng/g	JN	k
PDI-SG-S133	SE	PCB-106	0.024	0.020	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S133	SE	PCB-111	0.059	0.0025	ng/g	JN	k
PDI-SG-S133	SE	PCB-116	0.50	0.0031	ng/g	JN	k
PDI-SG-S133	SE	PCB-117	0.50	0.0031	ng/g	JN	k
PDI-SG-S133	SE	PCB-122	0.040	0.022	ng/g	JN	k
PDI-SG-S133	SE	PCB-123	0.071	0.018	ng/g	JN	k
PDI-SG-S133	SE	PCB-2	0.035	0.0023	ng/g	JN	k
PDI-SG-S133	SE	PCB-64	0.28	0.023	ng/g	JN	k
PDI-SG-S133	SE	PCB-82	0.23	0.0043	ng/g	JN	k
PDI-SG-S133	SE	PCB-85	0.50	0.0031	ng/g	JN	k
PDI-SG-S133	SE	PCB-9	0.034	0.0048	ng/g	JN	k
PDI-SG-S134	SE	PCB-10	0.021	0.00076	ng/g	JN	k
PDI-SG-S134	SE	PCB-114	0.0071	0.0017	ng/g	JN	k
PDI-SG-S134	SE	PCB-122	0.0054	0.0021	ng/g	JN	k
PDI-SG-S134	SE	PCB-123	0.0057	0.0017	ng/g	JN	k
PDI-SG-S134	SE	PCB-145	0.0024	0.00040	ng/g	JN	k
PDI-SG-S134	SE	PCB-150	0.011	0.00036	ng/g	JN	k
PDI-SG-S134	SE	PCB-16	0.021	0.00054	ng/g	JN	k
PDI-SG-S134	SE	PCB-191	0.030	0.00045	ng/g	JN	k
PDI-SG-S134	SE	PCB-2	0.015	0.00027	ng/g	J+	bl
PDI-SG-S134	SE	PCB-206	0.20	0.0022	ng/g	JN	k
PDI-SG-S134	SE	PCB-48	0.028	0.0057	ng/g	JN	k
PDI-SG-S134	SE	PCB-60	0.017	0.0040	ng/g	JN	k
PDI-SG-S134	SE	PCB-63	0.0071	0.0036	ng/g	JN	k
PDI-SG-S134	SE	PCB-68	0.019	0.0036	ng/g	JN	k
PDI-SG-S134	SE	PCB-7	0.0040	0.00067	ng/g	JN	k
PDI-SG-S134	SE	PCB-77	0.014	0.0036	ng/g	JN	k
PDI-SG-S134	SE	PCB-9	0.0033	0.00078	ng/g	JN	k
PDI-SG-S143	SE	PCB-1	0.0039	0.00078	ng/g	JN	k
PDI-SG-S143	SE	PCB-100	0.015	0.0024	ng/g	JN	k
PDI-SG-S143	SE	PCB-103	0.013	0.0022	ng/g	JN	k
PDI-SG-S143	SE	PCB-107	0.018	0.0031	ng/g	JN	k
PDI-SG-S143	SE	PCB-144	0.053	0.0012	ng/g	JN	k
PDI-SG-S143	SE	PCB-148	0.0021	0.0013	ng/g	JN	k
PDI-SG-S143	SE	PCB-15	0.013	0.0019	ng/g	JN	k
PDI-SG-S143	SE	PCB-16	0.0080	0.00037	ng/g	JN	k
PDI-SG-S143	SE	PCB-17	0.013	0.00028	ng/g	JN	k
PDI-SG-S143	SE	PCB-189	0.017	0.0042	ng/g	JN	k
PDI-SG-S143	SE	PCB-191	0.026	0.0026	ng/g	JN	k
PDI-SG-S143	SE	PCB-197	0.0099	0.0021	ng/g	JN	k
PDI-SG-S143	SE	PCB-2	0.010	0.00085	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S143	SE	PCB-201	0.026	0.0022	ng/g	JN	k
PDI-SG-S143	SE	PCB-206	2.7	0.015	ng/g	JN	k
PDI-SG-S143	SE	PCB-22	0.013	0.0015	ng/g	JN	k
PDI-SG-S143	SE	PCB-26	0.0081	0.0014	ng/g	JN	k
PDI-SG-S143	SE	PCB-29	0.0081	0.0014	ng/g	JN	k
PDI-SG-S143	SE	PCB-32	0.0094	0.00020	ng/g	JN	k
PDI-SG-S143	SE	PCB-4	0.021	0.0027	ng/g	JN	k
PDI-SG-S143	SE	PCB-42	0.015	0.0026	ng/g	JN	k
PDI-SG-S143	SE	PCB-54	0.0076	0.00032	ng/g	JN	k
PDI-SG-S143	SE	PCB-6	0.0021	0.0019	ng/g	JN	k
PDI-SG-S143	SE	PCB-60	0.0080	0.0017	ng/g	JN	k
PDI-SG-S143	SE	PCB-63	0.0041	0.0015	ng/g	JN	k
PDI-SG-S143	SE	PCB-77	0.011	0.0016	ng/g	JN	k
PDI-SG-S143	SE	PCB-82	0.023	0.0026	ng/g	JN	k
PDI-SG-S143	SE	PCB-83	0.15	0.0025	ng/g	JN	k
PDI-SG-S143	SE	PCB-84	0.042	0.0027	ng/g	JN	k
PDI-SG-S143	SE	PCB-93	0.015	0.0024	ng/g	JN	k
PDI-SG-S143	SE	PCB-96	0.0025	0.0019	ng/g	JN	k
PDI-SG-S143	SE	PCB-99	0.15	0.0025	ng/g	JN	k
PDI-SG-S145	SE	PCB-11	0.032	0.0021	ng/g	JN	bl,k
PDI-SG-S145	SE	PCB-12	0.033	0.0021	ng/g	JN	k
PDI-SG-S145	SE	PCB-123	0.027	0.011	ng/g	JN	k
PDI-SG-S145	SE	PCB-13	0.033	0.0021	ng/g	JN	k
PDI-SG-S145	SE	PCB-136	1.5	0.00020	ng/g	J	fd
PDI-SG-S145	SE	PCB-155	0.0070	0.00018	ng/g	JN	k
PDI-SG-S145	SE	PCB-182	0.066	0.00093	ng/g	JN	k
PDI-SG-S145	SE	PCB-200	0.16	0.0019	ng/g	JN	k
PDI-SG-S145	SE	PCB-3	0.043	0.0033	ng/g	JN	k
PDI-SG-S145	SE	PCB-32	0.15	0.0010	ng/g	J-	su
PDI-SG-S145	SE	PCB-35	0.023	0.0069	ng/g	JN	k
PDI-SG-S145	SE	PCB-39	0.023	0.0063	ng/g	JN	k
PDI-SG-S145	SE	PCB-58	0.024	0.0046	ng/g	JN	k
PDI-SG-S145	SE	PCB-6	0.031	0.0023	ng/g	JN	k
PDI-SG-S145	SE	PCB-9	0.014	0.0025	ng/g	JN	k
PDI-SG-S145	SE	PCB-92	2.0	0.0012	ng/g	J	fd
PDI-SG-S145-D	SE	PCB-11	0.032	0.0023	ng/g	J+	bl
PDI-SG-S145-D	SE	PCB-122	0.045	0.0090	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-136	2.6	0.0035	ng/g	J	fd
PDI-SG-S145-D	SE	PCB-144	0.40	0.0046	ng/g	J-	su
PDI-SG-S145-D	SE	PCB-155	0.0095	0.0032	ng/g	JN	k,su

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S145-D	SE	PCB-2	0.029	0.0024	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-206	0.71	0.015	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-24	0.0051	0.0013	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-3	0.048	0.0026	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-32	0.16	0.0012	ng/g	J-	su
PDI-SG-S145-D	SE	PCB-39	0.023	0.0084	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-43	0.057	0.0052	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-54	0.011	0.00020	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-60	0.058	0.0039	ng/g	J-	su
PDI-SG-S145-D	SE	PCB-7	0.0087	0.0024	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-73	0.057	0.0052	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-82	0.32	0.0014	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-89	0.031	0.0014	ng/g	JN	k,su
PDI-SG-S145-D	SE	PCB-9	0.014	0.0028	ng/g	JN	k
PDI-SG-S145-D	SE	PCB-92		0.0013	ng/g	UJ	fd
PDI-SG-S152	SE	PCB-112	0.0071	0.00028	ng/g	JN	k
PDI-SG-S152	SE	PCB-123	0.017	0.0016	ng/g	JN	k
PDI-SG-S152	SE	PCB-148	0.018	0.00064	ng/g	JN	k
PDI-SG-S152	SE	PCB-152	0.0052	0.00046	ng/g	JN	k
PDI-SG-S152	SE	PCB-206	1.0	0.0023	ng/g	JN	k
PDI-SG-S152	SE	PCB-24	0.0093	0.00021	ng/g	JN	k
PDI-SG-S152	SE	PCB-5	0.0042	0.00069	ng/g	JN	k
PDI-SG-S169	SE	PCB-112	0.017	0.00068	ng/g	JN	k
PDI-SG-S169	SE	PCB-145	0.0028	0.00078	ng/g	JN	k
PDI-SG-S169	SE	PCB-150	0.016	0.00070	ng/g	JN	k
PDI-SG-S169	SE	PCB-152	0.0051	0.00075	ng/g	JN	k
PDI-SG-S169	SE	PCB-191	0.039	0.00099	ng/g	JN	k
PDI-SG-S169	SE	PCB-197	0.017	0.0017	ng/g	JN	k
PDI-SG-S169	SE	PCB-201	0.053	0.0018	ng/g	JN	k
PDI-SG-S169	SE	PCB-34	0.0048	0.0043	ng/g	JN	k
PDI-SG-S169	SE	PCB-35	0.0070	0.0041	ng/g	JN	k
PDI-SG-S169	SE	PCB-43	0.050	0.0021	ng/g	JN	k
PDI-SG-S169	SE	PCB-46	0.024	0.0029	ng/g	JN	k
PDI-SG-S169	SE	PCB-5	0.0030	0.0011	ng/g	JN	k
PDI-SG-S169	SE	PCB-58	0.012	0.0016	ng/g	JN	k
PDI-SG-S169	SE	PCB-73	0.050	0.0021	ng/g	JN	k
PDI-SG-S169	SE	PCB-81	0.0019	0.0014	ng/g	JN	k
PDI-SG-S170	SE	PCB-10	0.017	0.0046	ng/g	JN	k
PDI-SG-S170	SE	PCB-100	0.49	0.0026	ng/g	JN	k
PDI-SG-S170	SE	PCB-11	0.061	0.0039	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S170	SE	PCB-120	0.15	0.0016	ng/g	JN	k
PDI-SG-S170	SE	PCB-122	0.40	0.058	ng/g	JN	k
PDI-SG-S170	SE	PCB-181	0.064	0.000093	ng/g	JN	k
PDI-SG-S170	SE	PCB-182	0.073	0.000088	ng/g	JN	k
PDI-SG-S170	SE	PCB-205	0.11	0.0036	ng/g	JN	k
PDI-SG-S170	SE	PCB-27	0.068	0.0032	ng/g	JN	k
PDI-SG-S170	SE	PCB-5	0.012	0.0043	ng/g	JN	k
PDI-SG-S170	SE	PCB-54	0.015	0.00023	ng/g	JN	k
PDI-SG-S170	SE	PCB-58	0.065	0.014	ng/g	JN	k
PDI-SG-S170	SE	PCB-63	0.15	0.013	ng/g	JN	k
PDI-SG-S170	SE	PCB-67	0.052	0.014	ng/g	JN	k
PDI-SG-S170	SE	PCB-7	0.031	0.0040	ng/g	JN	k
PDI-SG-S170	SE	PCB-8	0.57	0.0042	ng/g	J-	su
PDI-SG-S170	SE	PCB-9	0.035	0.0047	ng/g	JN	k
PDI-SG-S170	SE	PCB-93	0.49	0.0026	ng/g	JN	k
PDI-SG-S173	SE	PCB-10	0.0078	0.0046	ng/g	JN	k
PDI-SG-S173	SE	PCB-102	0.31	0.0027	ng/g	JN	k
PDI-SG-S173	SE	PCB-112	0.064	0.0019	ng/g	JN	k
PDI-SG-S173	SE	PCB-152	0.015	0.0028	ng/g	JN	k
PDI-SG-S173	SE	PCB-16	0.064	0.0017	ng/g	JN	k
PDI-SG-S173	SE	PCB-162	0.047	0.0064	ng/g	JN	k
PDI-SG-S173	SE	PCB-182	0.033	0.0015	ng/g	JN	k
PDI-SG-S173	SE	PCB-201	0.090	0.0029	ng/g	JN	k
PDI-SG-S173	SE	PCB-205	0.035	0.0038	ng/g	JN	k
PDI-SG-S173	SE	PCB-206	0.42	0.011	ng/g	JN	k
PDI-SG-S173	SE	PCB-27	0.022	0.00099	ng/g	JN	k
PDI-SG-S173	SE	PCB-35	0.0084	0.0047	ng/g	JN	k
PDI-SG-S173	SE	PCB-4	0.11	0.0052	ng/g	JN	k
PDI-SG-S173	SE	PCB-43	0.13	0.012	ng/g	JN	k
PDI-SG-S173	SE	PCB-5	0.0071	0.0043	ng/g	JN	k
PDI-SG-S173	SE	PCB-63	0.047	0.0077	ng/g	JN	k
PDI-SG-S173	SE	PCB-7	0.017	0.0041	ng/g	JN	k
PDI-SG-S173	SE	PCB-73	0.13	0.012	ng/g	JN	k
PDI-SG-S173	SE	PCB-9	0.017	0.0048	ng/g	JN	k
PDI-SG-S173	SE	PCB-98	0.31	0.0027	ng/g	JN	k
PDI-SG-S177	SE	PCB-1	0.30	0.0012	ng/g	JN	k
PDI-SG-S177	SE	PCB-10	0.0070	0.0021	ng/g	JN	k
PDI-SG-S177	SE	PCB-150	0.027	0.0018	ng/g	JN	k
PDI-SG-S177	SE	PCB-152	0.013	0.0019	ng/g	JN	k
PDI-SG-S177	SE	PCB-200	0.069	0.0027	ng/g	JN	k

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S177	SE	PCB-206	2.7	0.0070	ng/g	JN	k
PDI-SG-S177	SE	PCB-27	0.015	0.00063	ng/g	JN	k
PDI-SG-S177	SE	PCB-35	0.0083	0.0036	ng/g	JN	k
PDI-SG-S177	SE	PCB-39	0.0059	0.0032	ng/g	JN	k
PDI-SG-S177	SE	PCB-48	0.12	0.0040	ng/g	JN	k
PDI-SG-S177	SE	PCB-5	0.0082	0.0020	ng/g	JN	k
PDI-SG-S177	SE	PCB-55	0.024	0.0029	ng/g	JN	k
PDI-SG-S177	SE	PCB-58	0.011	0.0028	ng/g	JN	k
PDI-SG-S177	SE	PCB-67	0.020	0.0027	ng/g	JN	k
PDI-SG-S177	SE	PCB-9	0.018	0.0022	ng/g	JN	k
PDI-SG-S178	SE	PCB-144	0.53	0.0028	ng/g	J-	q
PDI-SG-S178	SE	PCB-145	0.013	0.0022	ng/g	JN	k
PDI-SG-S178	SE	PCB-26	0.16	0.0099	ng/g	JN	k
PDI-SG-S178	SE	PCB-29	0.16	0.0099	ng/g	JN	k
PDI-SG-S178	SE	PCB-32	0.16	0.00049	ng/g	J-	su
PDI-SG-S178	SE	PCB-40	1.4	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-41	1.4	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-42	0.80	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-43	0.16	0.0097	ng/g	J	lc
PDI-SG-S178	SE	PCB-44	6.4	0.0096	ng/g	J	lc
PDI-SG-S178	SE	PCB-45	0.53	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-46	0.14	0.013	ng/g	J	lc
PDI-SG-S178	SE	PCB-47	6.4	0.0096	ng/g	J	lc
PDI-SG-S178	SE	PCB-48	0.39	0.010	ng/g	J	lc
PDI-SG-S178	SE	PCB-49	4.4	0.0086	ng/g	J	lc
PDI-SG-S178	SE	PCB-50	0.62	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-51	0.53	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-52	17	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-53	0.62	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-54	0.026	0.00010	ng/g	J-	lc,su
PDI-SG-S178	SE	PCB-55		0.0073	ng/g	UJ	lc
PDI-SG-S178	SE	PCB-56	1.3	0.0074	ng/g	J	lc
PDI-SG-S178	SE	PCB-57		0.0075	ng/g	UJ	lc
PDI-SG-S178	SE	PCB-58	0.036	0.0072	ng/g	JN	k,lc
PDI-SG-S178	SE	PCB-59	0.23	0.0073	ng/g	JN	k,lc
PDI-SG-S178	SE	PCB-60	0.45	0.0073	ng/g	J	lc
PDI-SG-S178	SE	PCB-61	12	0.0071	ng/g	J	lc
PDI-SG-S178	SE	PCB-62	0.23	0.0073	ng/g	JN	k,lc
PDI-SG-S178	SE	PCB-63	0.16	0.0065	ng/g	J	lc
PDI-SG-S178	SE	PCB-64	1.7	0.0068	ng/g	J	lc

Sample ID	Matrix	Compound	Result	EDL	Units	Validation Qualifiers	Validation Reason
PDI-SG-S178	SE	PCB-65	6.4	0.0096	ng/g	J	lc
PDI-SG-S178	SE	PCB-66	4.6	0.0071	ng/g	J	lc
PDI-SG-S178	SE	PCB-67	0.047	0.0069	ng/g	JN	k,lc
PDI-SG-S178	SE	PCB-68	0.12	0.0065	ng/g	J	lc
PDI-SG-S178	SE	PCB-69	4.4	0.0086	ng/g	J	lc
PDI-SG-S178	SE	PCB-70	12	0.0071	ng/g	J	lc
PDI-SG-S178	SE	PCB-71	1.4	0.011	ng/g	J	lc
PDI-SG-S178	SE	PCB-72	0.15	0.0073	ng/g	J	lc
PDI-SG-S178	SE	PCB-73	0.16	0.0097	ng/g	J	lc
PDI-SG-S178	SE	PCB-74	12	0.0071	ng/g	J	lc
PDI-SG-S178	SE	PCB-75	0.23	0.0073	ng/g	JN	k,lc
PDI-SG-S178	SE	PCB-76	12	0.0071	ng/g	J	lc
PDI-SG-S178	SE	PCB-78		0.0072	ng/g	UJ	lc
PDI-SG-S178	SE	PCB-79	0.15	0.0062	ng/g	J	lc
PDI-SG-S178	SE	PCB-80		0.0064	ng/g	UJ	lc
PDI-SG-S178	SE	PCB-89	0.16	0.0015	ng/g	JN	k
PDI-SG-S180	SE	PCB-112	0.015	0.00048	ng/g	JN	k
PDI-SG-S180	SE	PCB-145	0.0029	0.00017	ng/g	JN	k
PDI-SG-S180	SE	PCB-152	0.034	0.00017	ng/g	JN	k
PDI-SG-S180	SE	PCB-191	0.14	0.000018	ng/g	JN	k
PDI-SG-S180	SE	PCB-206	0.69	0.0037	ng/g	J-	su
PDI-SG-S180	SE	PCB-5	0.0028	0.0010	ng/g	JN	k
PDI-SG-S180	SE	PCB-67	0.020	0.0020	ng/g	JN	k
PDI-SG-S180	SE	PCB-68	0.064	0.0019	ng/g	JN	k
PDI-SG-S180	SE	PCB-7	0.0035	0.00098	ng/g	JN	k
PDI-SG-S180	SE	PCB-79	0.056	0.0018	ng/g	JN	k
PDI-SG-S180	SE	PCB-89	0.032	0.00073	ng/g	JN	k

Attachment A

Nonconformance Summary Tables

Table A-1 - Laboratory Blanks

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
MB 140-20383/13-B	PCB-101	0.000331	0.000041	ng/g	0.001655	PDI-SG-S006 PDI-SG-S009 PDI-SG-S068 PDI-SG-S069 PDI-SG-S071
	PCB-105	0.000449	0.00015	ng/g	0.002245	
	PCB-107	0.000225	0.00016	ng/g	0.001125	
	PCB-109	0.000205	0.000040	ng/g	0.001025	
	PCB-11	0.00197	0.00046	ng/g	0.00985	
	PCB-113	0.000331	0.000041	ng/g	0.001655	
	PCB-116	0.000142	0.000038	ng/g	0.00071	
	PCB-117	0.000142	0.000038	ng/g	0.00071	
	PCB-118	0.000323	0.00015	ng/g	0.001615	
	PCB-119	0.000205	0.000040	ng/g	0.001025	
	PCB-121	0.000406	0.000033	ng/g	0.00203	
	PCB-125	0.000205	0.000040	ng/g	0.001025	
	PCB-129	0.00100	0.00011	ng/g	0.005	
	PCB-138	0.00100	0.00011	ng/g	0.005	
	PCB-147	0.000515	0.00012	ng/g	0.002575	
	PCB-149	0.000515	0.00012	ng/g	0.002575	
	PCB-153	0.000399	0.000094	ng/g	0.001995	
	PCB-156	0.000420	0.00011	ng/g	0.0021	
	PCB-157	0.000420	0.00011	ng/g	0.0021	
	PCB-160	0.00100	0.00011	ng/g	0.005	
	PCB-163	0.00100	0.00011	ng/g	0.005	
	PCB-168	0.000399	0.000094	ng/g	0.001995	
	PCB-17	0.000260	0.000054	ng/g	0.0013	
	PCB-170	0.000146	0.000041	ng/g	0.00073	
	PCB-18	0.000397	0.000048	ng/g	0.001985	
	PCB-183	0.000581	0.000036	ng/g	0.002905	
	PCB-185	0.000581	0.000036	ng/g	0.002905	
	PCB-186	0.000143	0.000029	ng/g	0.000715	
	PCB-189	0.000254	0.000086	ng/g	0.00127	
	PCB-194	0.000108	0.000050	ng/g	0.00054	
	PCB-20	0.000907	0.00032	ng/g	0.004535	
	PCB-205	0.0000796	0.000038	ng/g	0.000398	
	PCB-21	0.000660	0.00030	ng/g	0.0033	
	PCB-26	0.000461	0.00032	ng/g	0.002305	
	PCB-28	0.000907	0.00032	ng/g	0.004535	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-29	0.000461	0.00032	ng/g	0.002305	
	PCB-3	0.000760	0.00024	ng/g	0.0038	
	PCB-30	0.000397	0.000048	ng/g	0.001985	
	PCB-31	0.000809	0.00029	ng/g	0.004045	
	PCB-33	0.000660	0.00030	ng/g	0.0033	
	PCB-44	0.0100	0.00032	ng/g	0.05	
	PCB-45	0.00305	0.00038	ng/g	0.01525	
	PCB-47	0.0100	0.00032	ng/g	0.05	
	PCB-5	0.000549	0.00051	ng/g	0.002745	
	PCB-51	0.00305	0.00038	ng/g	0.01525	
	PCB-61	0.00102	0.00024	ng/g	0.0051	
	PCB-65	0.0100	0.00032	ng/g	0.05	
	PCB-68	0.00201	0.00022	ng/g	0.01005	
	PCB-70	0.00102	0.00024	ng/g	0.0051	
	PCB-74	0.00102	0.00024	ng/g	0.0051	
	PCB-76	0.00102	0.00024	ng/g	0.0051	
	PCB-85	0.000142	0.000038	ng/g	0.00071	
	PCB-86	0.000205	0.000040	ng/g	0.001025	
	PCB-87	0.000205	0.000040	ng/g	0.001025	
	PCB-90	0.000331	0.000041	ng/g	0.001655	
	PCB-97	0.000205	0.000040	ng/g	0.001025	
MB 140-20394/15-A	PCB-101	0.00273	0.00021	ng/L	0.01365	PDI-RB-VV-180505
	PCB-109	0.00299	0.00021	ng/L	0.01495	
	PCB-11	0.0260	0.013	ng/L	0.13	
	PCB-110	0.00622	0.00018	ng/L	0.0311	
	PCB-113	0.00273	0.00021	ng/L	0.01365	
	PCB-115	0.00622	0.00018	ng/L	0.0311	
	PCB-119	0.00299	0.00021	ng/L	0.01495	
	PCB-125	0.00299	0.00021	ng/L	0.01495	
	PCB-126	0.000911	0.00045	ng/L	0.004555	
	PCB-128	0.00219	0.00072	ng/L	0.01095	
	PCB-129	0.00532	0.00074	ng/L	0.0266	
	PCB-138	0.00532	0.00074	ng/L	0.0266	
	PCB-156	0.00143	0.00079	ng/L	0.00715	
	PCB-157	0.00143	0.00079	ng/L	0.00715	
	PCB-160	0.00532	0.00074	ng/L	0.0266	
	PCB-163	0.00532	0.00074	ng/L	0.0266	
	PCB-166	0.00219	0.00072	ng/L	0.01095	
	PCB-169	0.00166	0.00045	ng/L	0.0083	
	PCB-171	0.00579	0.00072	ng/L	0.02895	
	PCB-173	0.00579	0.00072	ng/L	0.02895	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-183	0.00428	0.00064	ng/L	0.0214	
	PCB-185	0.00428	0.00064	ng/L	0.0214	
	PCB-189	0.00843	0.0012	ng/L	0.04215	
	PCB-190	0.00372	0.00047	ng/L	0.0186	
	PCB-198	0.00221	0.00030	ng/L	0.01105	
	PCB-199	0.00221	0.00030	ng/L	0.01105	
	PCB-200	0.00136	0.00020	ng/L	0.0068	
	PCB-203	0.00208	0.00027	ng/L	0.0104	
	PCB-209 (decachlorobiphenyl)	0.0119	0.0027	ng/L	0.0595	
	PCB-44	0.0179	0.0014	ng/L	0.0895	
	PCB-47	0.0179	0.0014	ng/L	0.0895	
	PCB-65	0.0179	0.0014	ng/L	0.0895	
	PCB-86	0.00299	0.00021	ng/L	0.01495	
	PCB-87	0.00299	0.00021	ng/L	0.01495	
	PCB-90	0.00273	0.00021	ng/L	0.01365	
	PCB-95	0.00275	0.00026	ng/L	0.01375	
	PCB-97	0.00299	0.00021	ng/L	0.01495	
MB 140-20407/17-B	PCB-1	0.000747	0.00015	ng/g	0.003735	PDI-SG-S048 PDI-SG-S056 PDI-SG-S067 PDI-SG-S108 PDI-SG-S130 PDI-SG-S133 PDI-SG-S134 PDI-SG-S152 PDI-SG-S169 PDI-SG-S170 PDI-SG-S173 PDI-SG-S177 PDI-SG-S178 PDI-SG-S180
	PCB-101	0.00404	0.00012	ng/g	0.0202	
	PCB-105	0.000827	0.00027	ng/g	0.004135	
	PCB-109	0.00323	0.00012	ng/g	0.01615	
	PCB-11	0.00711	0.00054	ng/g	0.03555	
	PCB-110	0.00463	0.00010	ng/g	0.02315	
	PCB-113	0.00404	0.00012	ng/g	0.0202	
	PCB-115	0.00463	0.00010	ng/g	0.02315	
	PCB-118	0.00259	0.00027	ng/g	0.01295	
	PCB-119	0.00323	0.00012	ng/g	0.01615	
	PCB-125	0.00323	0.00012	ng/g	0.01615	
	PCB-128	0.00108	0.000026	ng/g	0.0054	
	PCB-129	0.00505	0.000027	ng/g	0.02525	
	PCB-132	0.00218	0.000035	ng/g	0.0109	
	PCB-135	0.000528	0.00013	ng/g	0.00264	
	PCB-136	0.000332	0.000093	ng/g	0.00166	
	PCB-138	0.00505	0.000027	ng/g	0.02525	
	PCB-141	0.000941	0.000031	ng/g	0.004705	
	PCB-146	0.000711	0.000028	ng/g	0.003555	
	PCB-147	0.00401	0.000030	ng/g	0.02005	
	PCB-149	0.00401	0.000030	ng/g	0.02005	
	PCB-151	0.000528	0.00013	ng/g	0.00264	
	PCB-153	0.00353	0.000023	ng/g	0.01765	
	PCB-156	0.000419	0.000027	ng/g	0.002095	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-157	0.000419	0.000027	ng/g	0.002095	
	PCB-158	0.000222	0.000021	ng/g	0.00111	
	PCB-16	0.000300	0.000088	ng/g	0.0015	
	PCB-160	0.00505	0.000027	ng/g	0.02525	
	PCB-163	0.00505	0.000027	ng/g	0.02525	
	PCB-164	0.000554	0.000023	ng/g	0.00277	
	PCB-166	0.00108	0.000026	ng/g	0.0054	
	PCB-168	0.00353	0.000023	ng/g	0.01765	
	PCB-170	0.000251	0.000053	ng/g	0.001255	
	PCB-174	0.00117	0.000048	ng/g	0.00585	
	PCB-177	0.000400	0.000048	ng/g	0.002	
	PCB-179	0.000203	0.000033	ng/g	0.001015	
	PCB-180	0.00194	0.000035	ng/g	0.0097	
	PCB-183	0.000213	0.000039	ng/g	0.001065	
	PCB-185	0.000213	0.000039	ng/g	0.001065	
	PCB-187	0.00107	0.000040	ng/g	0.00535	
	PCB-193	0.00194	0.000035	ng/g	0.0097	
	PCB-2	0.00301	0.00018	ng/g	0.01505	
	PCB-20	0.00110	0.00047	ng/g	0.0055	
	PCB-28	0.00110	0.00047	ng/g	0.0055	
	PCB-3	0.00131	0.00024	ng/g	0.00655	
	PCB-31	0.000889	0.00043	ng/g	0.004445	
	PCB-32	0.000517	0.000046	ng/g	0.002585	
	PCB-44	0.00491	0.00034	ng/g	0.02455	
	PCB-47	0.00491	0.00034	ng/g	0.02455	
	PCB-49	0.00102	0.00031	ng/g	0.0051	
	PCB-52	0.00207	0.00040	ng/g	0.01035	
	PCB-56	0.000316	0.00026	ng/g	0.00158	
	PCB-61	0.00148	0.00025	ng/g	0.0074	
	PCB-65	0.00491	0.00034	ng/g	0.02455	
	PCB-66	0.00139	0.00025	ng/g	0.00695	
	PCB-68	0.00170	0.00023	ng/g	0.0085	
	PCB-69	0.00102	0.00031	ng/g	0.0051	
	PCB-70	0.00148	0.00025	ng/g	0.0074	
	PCB-74	0.00148	0.00025	ng/g	0.0074	
	PCB-76	0.00148	0.00025	ng/g	0.0074	
	PCB-83	0.00207	0.00015	ng/g	0.01035	
	PCB-84	0.000683	0.00017	ng/g	0.003415	
	PCB-86	0.00323	0.00012	ng/g	0.01615	
	PCB-87	0.00323	0.00012	ng/g	0.01615	
	PCB-88	0.00111	0.00015	ng/g	0.00555	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-90	0.00404	0.00012	ng/g	0.0202	
	PCB-91	0.00111	0.00015	ng/g	0.00555	
	PCB-95	0.00571	0.00015	ng/g	0.02855	
	PCB-97	0.00323	0.00012	ng/g	0.01615	
	PCB-99	0.00207	0.00015	ng/g	0.01035	
MB 140-20449/17-B	PCB-1	0.000147	0.00011	ng/g	0.000735	PDI-SG-S005 PDI-SG-S008 PDI-SG-S018 PDI-SG-S023 PDI-SG-S035 PDI-SG-S131 PDI-SG-S143 PDI-SG-S145 PDI-SG-S145-D
	PCB-10	0.000578	0.00025	ng/g	0.00289	
	PCB-101	0.000418	0.000064	ng/g	0.00209	
	PCB-104	0.000186	0.000055	ng/g	0.00093	
	PCB-105	0.000584	0.000087	ng/g	0.00292	
	PCB-108	0.000142	0.000093	ng/g	0.00071	
	PCB-109	0.000592	0.000063	ng/g	0.00296	
	PCB-11	0.00799	0.00021	ng/g	0.03995	
	PCB-110	0.00126	0.000052	ng/g	0.0063	
	PCB-112	0.000108	0.000053	ng/g	0.00054	
	PCB-113	0.000418	0.000064	ng/g	0.00209	
	PCB-115	0.00126	0.000052	ng/g	0.0063	
	PCB-118	0.000757	0.000087	ng/g	0.003785	
	PCB-119	0.000592	0.000063	ng/g	0.00296	
	PCB-121	0.0000953	0.000052	ng/g	0.0004765	
	PCB-124	0.000142	0.000093	ng/g	0.00071	
	PCB-125	0.000592	0.000063	ng/g	0.00296	
	PCB-129	0.000977	0.000057	ng/g	0.004885	
	PCB-130	0.000119	0.000076	ng/g	0.000595	
	PCB-134	0.000211	0.000075	ng/g	0.001055	
	PCB-135	0.000154	0.000047	ng/g	0.00077	
	PCB-137	0.000127	0.000062	ng/g	0.000635	
	PCB-138	0.000977	0.000057	ng/g	0.004885	
	PCB-139	0.000179	0.000064	ng/g	0.000895	
	PCB-140	0.000179	0.000064	ng/g	0.000895	
	PCB-143	0.000211	0.000075	ng/g	0.001055	
	PCB-147	0.000601	0.000064	ng/g	0.003005	
	PCB-149	0.000601	0.000064	ng/g	0.003005	
	PCB-15	0.00150	0.00024	ng/g	0.0075	
	PCB-151	0.000154	0.000047	ng/g	0.00077	
	PCB-153	0.000312	0.000050	ng/g	0.00156	
	PCB-155	0.0000975	0.000031	ng/g	0.0004875	
	PCB-160	0.000977	0.000057	ng/g	0.004885	
	PCB-163	0.000977	0.000057	ng/g	0.004885	
	PCB-168	0.000312	0.000050	ng/g	0.00156	
	PCB-17	0.000716	0.000051	ng/g	0.00358	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-170	0.000121	0.000034	ng/g	0.000605	
	PCB-18	0.000677	0.000045	ng/g	0.003385	
	PCB-180	0.0000408	0.000026	ng/g	0.000204	
	PCB-183	0.000465	0.000029	ng/g	0.002325	
	PCB-184	0.0000551	0.000025	ng/g	0.0002755	
	PCB-185	0.000465	0.000029	ng/g	0.002325	
	PCB-187	0.000349	0.000030	ng/g	0.001745	
	PCB-188	0.0000431	0.000022	ng/g	0.0002155	
	PCB-19	0.000616	0.000063	ng/g	0.00308	
	PCB-193	0.0000408	0.000026	ng/g	0.000204	
	PCB-195	0.000202	0.000047	ng/g	0.00101	
	PCB-198	0.000224	0.000052	ng/g	0.00112	
	PCB-199	0.000224	0.000052	ng/g	0.00112	
	PCB-2	0.000671	0.00013	ng/g	0.003355	
	PCB-20	0.00133	0.00015	ng/g	0.00665	
	PCB-205	0.0000845	0.000031	ng/g	0.0004225	
	PCB-209 (decachlorobiphenyl)	0.000209	0.000059	ng/g	0.001045	
	PCB-21	0.000784	0.00014	ng/g	0.00392	
	PCB-22	0.000396	0.00015	ng/g	0.00198	
	PCB-26	0.000394	0.00015	ng/g	0.00197	
	PCB-27	0.000194	0.000038	ng/g	0.00097	
	PCB-28	0.00133	0.00015	ng/g	0.00665	
	PCB-29	0.000394	0.00015	ng/g	0.00197	
	PCB-30	0.000677	0.000045	ng/g	0.003385	
	PCB-31	0.00141	0.00014	ng/g	0.00705	
	PCB-32	0.000268	0.000035	ng/g	0.00134	
	PCB-33	0.000784	0.00014	ng/g	0.00392	
	PCB-35	0.000301	0.00014	ng/g	0.001505	
	PCB-37	0.000456	0.00014	ng/g	0.00228	
	PCB-4	0.000672	0.00032	ng/g	0.00336	
	PCB-40	0.000761	0.00017	ng/g	0.003805	
	PCB-41	0.000761	0.00017	ng/g	0.003805	
	PCB-44	0.00387	0.00016	ng/g	0.01935	
	PCB-45	0.000214	0.00018	ng/g	0.00107	
	PCB-47	0.00387	0.00016	ng/g	0.01935	
	PCB-51	0.000214	0.00018	ng/g	0.00107	
	PCB-52	0.000693	0.00018	ng/g	0.003465	
	PCB-56	0.000271	0.00012	ng/g	0.001355	
	PCB-59	0.000395	0.00012	ng/g	0.001975	
	PCB-60	0.000314	0.00012	ng/g	0.00157	
	PCB-61	0.00181	0.00012	ng/g	0.00905	

Blank ID	Compound	Result	ML	Units	BAL	Associated Samples
	PCB-62	0.000395	0.00012	ng/g	0.001975	
	PCB-64	0.000194	0.00011	ng/g	0.00097	
	PCB-65	0.00387	0.00016	ng/g	0.01935	
	PCB-66	0.000490	0.00012	ng/g	0.00245	
	PCB-68	0.000895	0.00011	ng/g	0.004475	
	PCB-70	0.00181	0.00012	ng/g	0.00905	
	PCB-71	0.000761	0.00017	ng/g	0.003805	
	PCB-74	0.00181	0.00012	ng/g	0.00905	
	PCB-75	0.000395	0.00012	ng/g	0.001975	
	PCB-76	0.00181	0.00012	ng/g	0.00905	
	PCB-77	0.000340	0.00011	ng/g	0.0017	
	PCB-83	0.000445	0.000079	ng/g	0.002225	
	PCB-86	0.000592	0.000063	ng/g	0.00296	
	PCB-87	0.000592	0.000063	ng/g	0.00296	
	PCB-90	0.000418	0.000064	ng/g	0.00209	
	PCB-92	0.000309	0.000077	ng/g	0.001545	
	PCB-95	0.000163	0.000079	ng/g	0.000815	
	PCB-97	0.000592	0.000063	ng/g	0.00296	
	PCB-99	0.000445	0.000079	ng/g	0.002225	

Table A-2 - MS/MSD Results

Sample ID	Compound	MS % Recovery	MSD % Recovery	Lower Limit	Upper Limit	RPD	RPD Limit
PDI-SG-S056	PCB-206	194	100	50	150	60	50

Table A-3 - Field Duplicates

Sample ID	Duplicate ID	Compound	Sample Result	Qual	Duplicate Result	Qual	ML	Units	RPD
PDI-SG-S145	PDI-SG-S145-D	PCB-136	1.5		2.6		0.099	ng/g	53.7
PDI-SG-S145	PDI-SG-S145-D	PCB-92	2	B	0.0013	U	0.099	ng/g	NC
NC: Not calculable									

Attachment B

Qualifier Codes and Explanations

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential low bias.
J+	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential high bias.
JN	The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Attachment C

Reason Codes and Explanations

Reason Code	Explanation
be	Equipment blank contamination
bf	Field blank contamination
bl	Laboratory blank contamination
c	Calibration issue
cl	Clean-up standard recovery
d	Reporting limit raised due to chromatographic interference
fd	Field duplicate RPDs
h	Holding times
i	Internal standard areas
k	Estimated Maximum Possible Concentration (EMPC)
l	LCS or OPR recoveries
lc	Labeled compound recovery
ld	Laboratory duplicate RPDs
lp	Laboratory control sample/laboratory control sample duplicate RPDs
m	Matrix spike recovery
md	Matrix spike/matrix spike duplicate RPDs
nb	Negative laboratory blank contamination
p	Chemical preservation issue
r	Dual column RPD
q	Quantitation issue
s	Surrogate recovery
su	Ion suppression
t	Temperature preservation issue
x	Percent solids
y	Serial dilution results
z	ICS results