



SAMPLE DEPENDENT QUALITY CONTROL REPORT Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
6010_201118A										
7440-38-2	77869	ARSENIC	ND	ND	mg/Kg	NA	0-20		DUP	
7440-47-3	77869	CHROMIUM	15	13	mg/Kg	14.3	0-20		DUP	
7440-50-8	77869	COPPER	95	80	mg/Kg	17.1	0-20		DUP	
8270D_S201116										
321-60-8	76453	2 - FLUOROBIPHENYL (Surr)	79	80	%	1.3	0-60		DUP	
367-12-4	76453	2 - FLUOROPHENOL (Surr)	16	15	%	6.5	0-60		DUP	
118-79-6	76453	2,4,6 - TRIBROMOPHENOL (Surr)	86	84	%	2.4	0-60		DUP	
98-95-3	76453	d5-NITROBENZENE (Surr)	57	53	%	7.3	0-60		DUP	
108-95-2	76453	d5-PHENOL (Surr)	30	31	%	3.3	0-60		DUP	
1718-51-0	76453	p-TERPHENYL-d14 (Surr)	91	93	%	2.2	0-60		DUP	
90-12-0	76453	1-METHYLNAPHTHALENE	ND	ND	mg/Kg	NA	0-60		DUP	
58-90-2	76453	2,3,4,6-TETRACHLOROPHENOL	ND		mg/Kg		0-60		DUP	
95-95-4	76453	2,4,5-TRICHLOROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
88-06-2	76453	2,4,6-TRICHLOROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
120-83-2	76453	2,4-DICHLOROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
105-67-9	76453	2,4-DIMETHYLPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
51-28-5	76453	2,4-DINITROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
87-65-0	76453	2,6-DICHLOROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
95-57-8	76453	2-CHLOROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
91-57-6	76453	2-METHYLNAPHTHALENE	ND	ND	mg/Kg	NA	0-60		DUP	
95-48-7	76453	2-METHYLPHENOL (o-CRESOL)	ND	ND	mg/Kg	NA	0-60		DUP	
88-75-5	76453	2-NITROPHENOL	ND	ND	mg/Kg	NA	0-60		DUP	
108-39-4	76453	3-METHYLPHENOL (m-CRESOL)	ND	ND	mg/Kg	NA	0-60		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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FORM: QC Dependent.rpt

534-52-1	76453	4,6-DINITRO-2-METHYLPHENOL	ND	ND	mg/Kg	NA	0-60	DUP
59-50-7	76453	4-CHLORO-3-METHYLPHENOL	ND	ND	mg/Kg	NA	0-60	DUP
106-44-5	76453	4-METHYLPHENOL (p-CRESOL)	ND	ND	mg/Kg	NA	0-60	DUP
100-02-7	76453	4-NITROPHENOL	ND	ND	mg/Kg	NA	0-60	DUP
208-96-8	76453	ACENAPHTHYLENE	ND	ND	mg/Kg	NA	0-60	DUP
83-32-9	76453	ACENAPTHENE	ND	ND	mg/Kg	NA	0-60	DUP
120-12-7	76453	ANTHRACENE	ND	ND	mg/Kg	NA	0-60	DUP
56-55-3	76453	BENZ[A]ANTHRACENE	ND	ND	mg/Kg	NA	0-60	DUP
50-32-8	76453	BENZO[A]PYRENE	ND	ND	mg/Kg	NA	0-60	DUP
205-99-2	76453	BENZO[B/J]FLUORANTHENE	ND	ND	mg/Kg	NA	0-60	DUP
191-24-2	76453	BENZO[G,H,I]PERYLENE	ND	ND	mg/Kg	NA	0-60	DUP
207-08-9	76453	BENZO[K]FLUORANTHENE	ND	ND	mg/Kg	NA	0-60	DUP
218-01-9	76453	CHRYSENE	ND	ND	mg/Kg	NA	0-60	DUP
53-70-3	76453	DIBENZ[A,H]ANTHRACENE	ND	ND	mg/Kg	NA	0-60	DUP
206-44-0	76453	FLUORANTHENE	ND	ND	mg/Kg	NA	0-60	DUP
86-73-7	76453	FLUORENE	ND	ND	mg/Kg	NA	0-60	DUP
193-39-5	76453	INDENO[1,2,3,C,D]PYRENE	ND	ND	mg/Kg	NA	0-60	DUP
106-44-5	76453	m/p-CRESOL	ND	ND	mg/Kg	NA	0-60	DUP
91-20-3	76453	NAPHTHALENE	ND	ND	mg/Kg	NA	0-60	DUP
87-86-5	76453	PENTACHLOROPHENOL	ND	ND	mg/Kg	NA	0-60	DUP
85-01-8	76453	PHENANTHRENE	ND	ND	mg/Kg	NA	0-60	DUP
108-95-2	76453	PHENOL	ND	ND	mg/Kg	NA	0-60	DUP
129-00-0	76453	PYRENE	ND	ND	mg/Kg	NA	0-60	DUP
TS_201116								
E-10151	75439	TOTAL SOLIDS FOR CALCULATION	98.86	98.92	%	0.1	0-20	DUP
E-10151	76818	TOTAL SOLIDS FOR CALCULATION	97.90	97.83	%	0.1	0-20	DUP

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate		Percent Recovery					QC			
					Spike	Conc	Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type	Comments
6010_201118A															
7440-38-2	77869	ARSENIC	ND	72	73	76	mg/Kg	95	96	75-125	1.4	0-20		LFM	
7440-47-3	77869	CHROMIUM	15	85	90	76	mg/Kg	92	99	75-125	6.9	0-20		LFM	

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7440-50-8	77869	COPPER	95	148	158	76	mg/Kg	70	83	75-125	17.2	0-20	INH	LFM
8270D_S201116														
321-60-8	76453	2 - FLUOROBIPHENYL (Surr)	79	72			%		NA	70-130	NA	0-60		LFM
367-12-4	76453	2 - FLUOROPHENOL (Surr)	16	14			%		NA	70-130	NA	0-60		LFM
118-79-6	76453	2,4,6 - TRIBROMOPHENOL (Surr)	86	86			%		NA	70-130	NA	0-60		LFM
98-95-3	76453	d5-NITROBENZENE (Surr)	57	49			%		NA	70-130	NA	0-60		LFM
108-95-2	76453	d5-PHENOL (Surr)	30	26			%		NA	70-130	NA	0-60		LFM
1718-51-0	76453	p-TERPHENYL-d14 (Surr)	91	91			%		NA	70-130	NA	0-60		LFM
90-12-0	76453	1-METHYLNAPHTHALENE	ND	0.75		1.2	mg/Kg	63	NA	70-130	NA	0-60	L2	LFM
58-90-2	76453	2,3,4,6-TETRACHLOROPHENOL	ND	0.92		1.2	mg/Kg	77	NA	38-140	NA	0-60		LFM
95-95-4	76453	2,4,5-TRICHLOROPHENOL	ND	0.98		1.2	mg/Kg	82	NA	25-125	NA	0-60		LFM
88-06-2	76453	2,4,6-TRICHLOROPHENOL	ND	0.87		1.2	mg/Kg	73	NA	37-144	NA	0-60		LFM
120-83-2	76453	2,4-DICHLOROPHENOL	ND	0.71		1.2	mg/Kg	59	NA	39-135	NA	0-60		LFM
105-67-9	76453	2,4-DIMETHYLPHENOL	ND	0.63		1.2	mg/Kg	53	NA	32-119	NA	0-60		LFM
51-28-5	76453	2,4-DINITROPHENOL	ND	0.40		1.2	mg/Kg	33	NA	1-191	NA	0-60		LFM
95-57-8	76453	2-CHLOROPHENOL	ND	0.45		1.2	mg/Kg	38	NA	23-134	NA	0-60		LFM
91-57-6	76453	2-METHYLNAPHTHALENE	ND	0.73		1.2	mg/Kg	61	NA	70-130	NA	0-60	L2	LFM
95-48-7	76453	2-METHYLPHENOL (o-CRESOL)	ND	0.55		1.2	mg/Kg	46	NA	40-160	NA	0-60		LFM
88-75-5	76453	2-NITROPHENOL	ND	0.55		1.2	mg/Kg	46	NA	29-182	NA	0-60		LFM
534-52-1	76453	4,6-DINITRO-2-METHYLPHENOL	ND	0.57		1.2	mg/Kg	48	NA	1-110	NA	0-60		LFM
59-50-7	76453	4-CHLORO-3-METHYLPHENOL	ND	0.86		1.2	mg/Kg	72	NA	22-147	NA	0-60		LFM
100-02-7	76453	4-NITROPHENOL	ND	0.52		1.2	mg/Kg	43	NA	1-132	NA	0-60		LFM
208-96-8	76453	ACENAPHTHYLENE	ND	0.85		1.2	mg/Kg	71	NA	33-145	NA	0-60		LFM
83-32-9	76453	ACENAPHTHENE	ND	0.85		1.2	mg/Kg	71	NA	47-145	NA	0-60		LFM
120-12-7	76453	ANTHRACENE	ND	0.98		1.2	mg/Kg	82	NA	27-133	NA	0-60		LFM
56-55-3	76453	BENZ[A]ANTHRACENE	ND	1.03		1.2	mg/Kg	86	NA	33-143	NA	0-60		LFM
50-32-8	76453	BENZO[A]PYRENE	ND	1.06		1.2	mg/Kg	88	NA	17-163	NA	0-60		LFM
205-99-2	76453	BENZO[B/J]FLUORANTHENE	ND	1.11		1.2	mg/Kg	93	NA	24-159	NA	0-60		LFM
191-24-2	76453	BENZO[G,H,I]PERYLENE	ND	1.12		1.2	mg/Kg	93	NA	1-219	NA	0-60		LFM
207-08-9	76453	BENZO[K]FLUORANTHENE	ND	1.03		1.2	mg/Kg	86	NA	11-162	NA	0-60		LFM
218-01-9	76453	CHRYSENE	ND	1.03		1.2	mg/Kg	86	NA	17-168	NA	0-60		LFM
53-70-3	76453	DIBENZ[A,H]ANTHRACENE	ND	1.05		1.2	mg/Kg	88	NA	1-227	NA	0-60		LFM
206-44-0	76453	FLUORANTHENE	ND	1.03		1.2	mg/Kg	86	NA	26-137	NA	0-60		LFM
86-73-7	76453	FLUORENE	ND	0.94		1.2	mg/Kg	78	NA	59-121	NA	0-60		LFM
193-39-5	76453	INDENO[1,2,3,C,D]PYRENE	ND	1.06		1.2	mg/Kg	88	NA	1-171	NA	0-60		LFM
106-44-5	76453	m/p-CRESOL	ND	0.53		1.2	mg/Kg	44	NA	25-125	NA	0-60		LFM
91-20-3	76453	NAPHTHALENE	ND	0.63		1.2	mg/Kg	53	NA	21-133	NA	0-60		LFM

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87-86-5	76453	PENTACHLOROPHENOL	ND	0.81	1.2	mg/Kg	68	NA	14-176	NA	0-60	LFM
85-01-8	76453	PHENANTHRENE	ND	1.01	1.2	mg/Kg	84	NA	54-120	NA	0-60	LFM
108-95-2	76453	PHENOL	ND	0.23	1.2	mg/Kg	19	NA	5-112	NA	0-60	LFM
129-00-0	76453	PYRENE	ND	1.04	1.2	mg/Kg	87	NA	52-115	NA	0-60	LFM

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