

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1421-03MSD	Client Sample ID:	P001-CLAY-CF01-01MSD				DataFile:	BF141763.D			
Benzaldehyde	2400	0	1400	ug/Kg	58		7		20 (10)	160 (86)	30 (20)
Phenol	2400	0	2200	ug/Kg	92		4		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2400	0	2200	ug/Kg	92		4		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2400	0	2200	ug/Kg	92		4		70 (79)	130 (107)	30 (20)
2-Methylphenol	2400	0	2200	ug/Kg	92		4		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2400	0	2000	ug/Kg	83		5		70 (65)	130 (110)	30 (20)
Acetophenone	2400	0	2400	ug/Kg	100		8		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2400	0	2200	ug/Kg	92		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2400	0	2100	ug/Kg	88		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	2400	0	2200	ug/Kg	92		4		20 (65)	160 (117)	30 (20)
Nitrobenzene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (119)	30 (20)
Isophorone	2400	0	2200	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2400	0	2200	ug/Kg	92		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2400	0	2800	ug/Kg	117		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2400	0	2200	ug/Kg	92		4		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88		0		70 (72)	130 (118)	30 (20)
Naphthalene	2400	0	2100	ug/Kg	88		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2400	0	940	ug/Kg	39	*	11		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2400	0	2200	ug/Kg	92		4		70 (66)	130 (114)	30 (20)
Caprolactam	2400	0	2200	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2400	0	2000	ug/Kg	83		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4700	0	6400	ug/Kg	136		3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2400	0	2100	ug/Kg	88		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2400	0	2400	ug/Kg	100		4		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2400	0	2200	ug/Kg	92		4		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2400	0	2100	ug/Kg	88		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2400	0	2100	ug/Kg	88		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2400	0	2200	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2400	0	1200	ug/Kg	50	*	8		70 (30)	130 (99)	30 (20)
Acenaphthene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4700	0	2900	ug/Kg	62		3		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4700	0	3500	ug/Kg	74		7		20 (45)	160 (133)	30 (20)
Dibenzofuran	2400	0	2000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2400	0	2000	ug/Kg	83		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88		0		70 (71)	130 (108)	30 (20)
Fluorene	2400	0	2100	ug/Kg	88		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2400	0	2000	ug/Kg	83		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2400	0	2300	ug/Kg	96		4		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2400	0	2300	ug/Kg	96		4		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2400	0	2400	ug/Kg	100		8		70 (67)	130 (118)	30 (20)
Atrazine	2400	0	2800	ug/Kg	117		3		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

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Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4700	0	3400	ug/Kg	72		6		20 (47)	160 (128)	30 (20)
Phenanthrene	2400	0	2200	ug/Kg	92		4		70 (52)	130 (128)	30 (20)
Anthracene	2400	0	2300	ug/Kg	96		4		70 (62)	130 (124)	30 (20)
Carbazole	2400	0	2200	ug/Kg	92		4		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2400	0	2200	ug/Kg	92		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2400	0	2100	ug/Kg	88		6		70 (44)	130 (125)	30 (20)
Pyrene	2400	0	2100	ug/Kg	88		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2400	0	2300	ug/Kg	96		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2400	0	1900	ug/Kg	79		11		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2400	0	2300	ug/Kg	96		4		70 (71)	130 (114)	30 (20)
Chrysene	2400	0	2100	ug/Kg	88		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2400	0	2700	ug/Kg	113		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2400	0	3200	ug/Kg	133	*	13		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2400	0	1900	ug/Kg	79		11		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2400	0	2200	ug/Kg	92		15		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2400	0	2300	ug/Kg	96		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2400	0	2500	ug/Kg	104		4		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2400	0	2500	ug/Kg	104		4		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2400	0	2300	ug/Kg	96		4		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2400	0	2400	ug/Kg	100		4		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2400	0	2200	ug/Kg	92		4		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83		0		70 (69)	130 (112)	30 (20)