

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062697.D
 Acq On : 22 May 2019 10:23
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:15:58 PM

Quant Time: May 23 01:44:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	797424	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.76	114	1428686	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	1002423	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	474738	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	273938	48.61	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.22%	
35) Dibromofluoromethane	4.29	113	507221	46.40	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	92.80%	
50) Toluene-d8	7.70	98	1144428	43.84	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	87.68%	
62) 4-Bromofluorobenzene	11.48	95	409054	41.32	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	82.64%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.01	85	505307	46.565	ug/l 98
3) Chloromethane	1.14	50	456115	45.648	ug/l 100
4) Vinyl Chloride	1.19	62	440960	47.943	ug/l 99
5) Bromomethane	1.39	94	276895	55.030	ug/l 99
6) Chloroethane	1.44	64	181414	53.705	ug/l # 88
7) Trichlorofluoromethane	1.55	101	678299	54.924	ug/l 90
8) Diethyl Ether	1.71	74	131601	53.790	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	1.90	101	410190	52.162	ug/l 95
10) Methyl Iodide	1.98	142	838447	54.277	ug/l 97
11) Tert butyl alcohol	2.68	59	91774	246.687	ug/l 100
12) 1,1-Dichloroethene	1.86	96	385819	53.859	ug/l 98
13) Acrolein	2.09	56	79446	204.577	ug/l 91
14) Allyl chloride	2.19	41	397179m	61.261	ug/l
15) Acrylonitrile	3.08	53	299583	285.474	ug/l 99
16) Acetone	2.34	43	410773	280.986	ug/l 99
17) Carbon Disulfide	1.91	76	1074057	50.586	ug/l 100
18) Methyl Acetate	2.45	43	101620	44.235	ug/l 97
19) Methyl tert-butyl Ether	2.53	73	676072	52.794	ug/l 99
20) Methylene Chloride	2.33	84	397554m	54.254	ug/l
21) trans-1,2-Dichloroethene	2.41	96	392686	56.084	ug/l 90
22) Diisopropyl ether	2.93	45	795577	49.753	ug/l 98
23) Vinyl Acetate	3.33	43	2699970	250.305	ug/l 99
24) 1,1-Dichloroethane	3.00	63	654242	55.772	ug/l 99
25) 2-Butanone	4.50	43	806108	258.092	ug/l 94
26) 2,2-Dichloropropane	3.76	77	405719	60.449	ug/l 86
27) cis-1,2-Dichloroethene	3.64	96	651398	56.559	ug/l 93
28) Bromochloromethane	3.88	49	305471	46.431	ug/l 95
29) Tetrahydrofuran	4.25	42	309193	244.633	ug/l 98
30) Chloroform	4.04	83	910056	55.877	ug/l 97
31) Cyclohexane	3.86	56	814637	51.721	ug/l 97
32) 1,1,1-Trichloroethane	4.28	97	604140	55.854	ug/l 96
36) 1,1-Dichloropropene	4.46	75	724822	49.511	ug/l 98
37) Ethyl Acetate	4.29	43	249484	41.738	ug/l 97
38) Carbon Tetrachloride	4.17	117	526598m	47.829	ug/l

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	870569	49.422	ug/l	97
40) Benzene	4.81	78	2052313	51.459	ug/l	97
41) Methacrylonitrile	4.92	41	141846	45.264	ug/l	93
42) 1,2-Dichloroethane	5.12	62	398290	50.079	ug/l	95
43) Isopropyl Acetate	7.10	43	291603	37.656	ug/l	93
44) Trichloroethene	5.67	130	568975	50.760	ug/l	93
45) 1,2-Dichloropropane	6.40	63	488981	48.569	ug/l	99
46) Dibromomethane	6.25	93	299912	51.545	ug/l	96
47) Bromodichloromethane	6.54	83	610973	50.581	ug/l	100
48) Methyl methacrylate	6.86	41	165493	40.887	ug/l	96
49) 1,4-Dioxane	6.85	88	47801	922.059	ug/l #	90
51) 4-Methyl-2-Pentanone	8.39	43	1065285	201.253	ug/l	99
52) Toluene	7.77	92	1001773	47.895	ug/l	100
53) t-1,3-Dichloropropene	8.41	75	470661	47.628	ug/l	97
54) cis-1,3-Dichloropropene	7.44	75	692074	50.030	ug/l	98
55) 1,1,2-Trichloroethane	8.61	97	293521	47.396	ug/l	95
56) Ethyl methacrylate	8.74	69	298914	40.513	ug/l	92
57) 1,3-Dichloropropane	8.98	76	498673	47.274	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.43	63	493832	205.627	ug/l	95
59) 2-Hexanone	9.61	43	776257	223.514	ug/l	94
60) Dibromochloromethane	8.84	129	414249	51.323	ug/l	97
61) 1,2-Dibromoethane	9.12	107	307571	46.758	ug/l	99
64) Tetrachloroethene	8.29	164	428316	53.934	ug/l	98
65) Chlorobenzene	9.92	112	1013819	51.493	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.04	131	433392	54.833	ug/l	97
67) Ethyl Benzene	10.01	91	1754863	51.307	ug/l	100
68) m/p-Xylenes	10.24	106	1318341	102.554	ug/l	96
69) o-Xylene	10.80	106	688402	51.991	ug/l	95
70) Styrene	10.88	104	986868	49.036	ug/l	98
71) Bromoform	10.86	173	215388	54.411	ug/l #	93
73) Isopropylbenzene	11.20	105	1822558	53.565	ug/l	99
74) N-amyl acetate	11.43	43	419176	48.227	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.76	83	360716	51.875	ug/l	99
76) 1,2,3-Trichloropropane	11.86	75	223772	48.977	ug/l	94
77) Bromobenzene	11.57	156	446030	52.737	ug/l	92
78) n-propylbenzene	11.66	91	2062314	51.215	ug/l	100
79) 2-Chlorotoluene	11.79	91	1213028	53.453	ug/l	95
80) 1,3,5-Trimethylbenzene	11.89	105	1468965	53.842	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.93	75	103235m	50.832	ug/l	
82) 4-Chlorotoluene	11.96	91	1160614	51.862	ug/l	98
83) tert-Butylbenzene	12.18	119	1485451	53.665	ug/l	97
84) 1,2,4-Trimethylbenzene	12.26	105	1400583	53.040	ug/l	98
85) sec-Butylbenzene	12.36	105	1967310	52.960	ug/l	98
86) p-Isopropyltoluene	12.51	119	1667042	53.250	ug/l	96
87) 1,3-Dichlorobenzene	12.53	146	794389	51.916	ug/l	98
88) 1,4-Dichlorobenzene	12.62	146	734760	51.169	ug/l	96
89) n-Butylbenzene	12.88	91	1625836	52.674	ug/l	97
90) Hexachloroethane	12.96	117	444035	59.127	ug/l	81
91) 1,2-Dichlorobenzene	12.98	146	742297	54.422	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.68	75	45452	54.793	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	519196	53.178	ug/l	94
94) Hexachlorobutadiene	14.21	225	374161	54.915	ug/l	92
95) Naphthalene	14.48	128	846681	47.735	ug/l	99
96) 1,2,3-Trichlorobenzene	14.63	180	494106	53.429	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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