

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062497.D
 Acq On : 22 May 2019 12:00
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:20:53 AM

Quant Time: May 23 03:32:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	715467	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1030693	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	809243	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	426891	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	424799	55.47	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.94%	
35) Dibromofluoromethane	6.91	113	472076	50.77	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.40	98	999703	49.13	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	13.55	95	427671	48.05	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	400990	61.038	ug/l	99
3) Chloromethane	1.75	50	224741	45.344	ug/l	96
4) Vinyl Chloride	1.84	62	239771	45.972	ug/l	99
5) Bromomethane	2.14	94	96445	42.853	ug/l	99
6) Chloroethane	2.25	64	94809	37.577	ug/l	96
7) Trichlorofluoromethane	2.53	101	370089	30.711	ug/l	93
8) Diethyl Ether	2.86	74	52987	32.595	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	3.14	101	234408	32.696	ug/l	93
10) Methyl Iodide	3.29	142	446371	44.652	ug/l	90
11) Tert butyl alcohol	4.06	59	93921	265.682	ug/l	98
12) 1,1-Dichloroethene	3.12	96	167566	31.625	ug/l	80
13) Acrolein	3.03	56	50350	171.509	ug/l	95
14) Allyl chloride	3.61	41	318100	40.717	ug/l #	81
15) Acrylonitrile	4.18	53	222279	274.403	ug/l	88
16) Acetone	3.21	43	374791	273.090	ug/l #	88
17) Carbon Disulfide	3.36	76	671940	41.874	ug/l	100
18) Methyl Acetate	3.63	43	91455	38.618	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	710852	58.085	ug/l	94
20) Methylene Chloride	3.80	84	276273	46.778	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	345164	55.646	ug/l	86
22) Diisopropyl ether	5.11	45	941512	56.618	ug/l	92
23) Vinyl Acetate	5.04	43	2854582	284.087	ug/l	98
24) 1,1-Dichloroethane	4.97	63	582000	54.342	ug/l	98
25) 2-Butanone	6.06	43	530427	369.530	ug/l	96
26) 2,2-Dichloropropane	6.00	77	705228	61.086	ug/l	88
27) cis-1,2-Dichloroethene	6.02	96	394446	58.973	ug/l	94
28) Bromochloromethane	6.42	49	199421	51.881	ug/l	90
29) Tetrahydrofuran	6.44	42	192853	281.318	ug/l	99
30) Chloroform	6.65	83	791243	57.950	ug/l	97
31) Cyclohexane	6.94	56	405481	56.073	ug/l	95
32) 1,1,1-Trichloroethane	6.85	97	787726	57.145	ug/l	98
36) 1,1-Dichloropropene	7.13	75	528541	53.637	ug/l	96
37) Ethyl Acetate	6.17	43	211278	55.191	ug/l #	89
38) Carbon Tetrachloride	7.09	117	781179m	53.340	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	476328	58.606	ug/l	97
40) Benzene	7.44	78	1050461	54.346	ug/l	98
41) Methacrylonitrile	6.42	41	261175	54.322	ug/l #	85
42) 1,2-Dichloroethane	7.57	62	539510	52.710	ug/l	93
43) Isopropyl Acetate	9.23	43	276226	54.392	ug/l #	90
44) Trichloroethene	8.52	130	404364	52.249	ug/l	85
45) 1,2-Dichloropropane	8.93	63	237162	50.348	ug/l	99
46) Dibromomethane	9.05	93	233010	54.571	ug/l	88
47) Bromodichloromethane	9.37	83	600903	55.321	ug/l	100
48) Methyl methacrylate	9.10	41	189786	55.533	ug/l #	83
49) 1,4-Dioxane	9.07	88	34737	1133.185	ug/l #	90
51) 4-Methyl-2-Pentanone	10.29	43	900818	268.505	ug/l	93
52) Toluene	10.50	92	719601	54.382	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	492986	54.514	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	520379	55.148	ug/l #	86
55) 1,1,2-Trichloroethane	11.18	97	238341	53.146	ug/l	95
56) Ethyl methacrylate	11.03	69	263641	54.991	ug/l #	80
57) 1,3-Dichloropropane	11.39	76	340488	49.506	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.85	63	591113	240.113	ug/l	100
59) 2-Hexanone	11.52	43	765933	314.125	ug/l	91
60) Dibromochloromethane	11.68	129	452111	52.487	ug/l	97
61) 1,2-Dibromoethane	11.80	107	312197	56.488	ug/l	95
64) Tetrachloroethene	11.25	164	378726	55.894	ug/l	96
65) Chlorobenzene	12.39	112	862656	55.433	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	401963	55.956	ug/l	94
67) Ethyl Benzene	12.52	91	1564961	58.384	ug/l	95
68) m/p-Xylenes	12.66	106	1035008	107.569	ug/l	91
69) o-Xylene	13.04	106	472387	52.034	ug/l	80
70) Styrene	13.07	104	835750	54.115	ug/l	96
71) Bromoform	13.22	173	276959	58.055	ug/l	99
73) Isopropylbenzene	13.39	105	1496795	55.625	ug/l	97
74) N-amyl acetate	13.25	43	387180	58.258	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	282696	58.234	ug/l	100
76) 1,2,3-Trichloropropane	13.73	75	301150	59.891	ug/l	99
77) Bromobenzene	13.66	156	449213	58.849	ug/l	85
78) n-propylbenzene	13.77	91	1897309	60.872	ug/l	96
79) 2-Chlorotoluene	13.83	91	1069296	56.531	ug/l	95
80) 1,3,5-Trimethylbenzene	13.92	105	1280452	54.958	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.46	75	82669	58.295	ug/l #	62
82) 4-Chlorotoluene	13.94	91	1240482	56.945	ug/l	92
83) tert-Butylbenzene	14.18	119	1453929	56.258	ug/l	90
84) 1,2,4-Trimethylbenzene	14.23	105	1309452	54.849	ug/l	92
85) sec-Butylbenzene	14.36	105	1494395	55.455	ug/l	96
86) p-Isopropyltoluene	14.48	119	1414791	57.934	ug/l	92
87) 1,3-Dichlorobenzene	14.44	146	732794	54.361	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	711294	54.682	ug/l	96
89) n-Butylbenzene	14.79	91	1306232	55.424	ug/l	94
90) Hexachloroethane	15.00	117	393380	58.286	ug/l	99
91) 1,2-Dichlorobenzene	14.80	146	660707	57.641	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	49454	53.670	ug/l	67

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	483775	53.601	ug/l	94
94) Hexachlorobutadiene	16.03	225	359734	53.980	ug/l	98
95) Naphthalene	16.12	128	741578	60.132	ug/l	100
96) 1,2,3-Trichlorobenzene	16.26	180	428673	57.937	ug/l	97

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

