

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061863.D
 Acq On : 8 Mar 2019 15:26
 Operator : VA/AP
 Sample : VF0308SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:12:10 AM

Quant Time: Mar 09 02:10:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	317683	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	481121	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	422170	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	237025	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	125602	54.29	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	108.58%	
35) Dibromofluoromethane	4.08	113	180238	53.68	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	107.36%	
50) Toluene-d8	7.53	98	526064	52.71	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	105.42%	
62) 4-Bromofluorobenzene	11.39	95	201694	51.59	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	103.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	89658	22.988	ug/l	91
3) Chloromethane	1.10	50	87560	23.165	ug/l	99
4) Vinyl Chloride	1.14	62	80597	22.462	ug/l	92
5) Bromomethane	1.31	94	53313	21.801	ug/l	97
6) Chloroethane	1.38	64	38868	22.788	ug/l	94
7) Trichlorofluoromethane	1.47	101	100827	23.007	ug/l	97
8) Diethyl Ether	1.62	74	22606	22.684	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	69529	23.363	ug/l	93
10) Methyl Iodide	1.90	142	123300m	21.772	ug/l	
11) Tert butyl alcohol	2.55	59	12341	93.982	ug/l	98
12) 1,1-Dichloroethene	1.78	96	60267	22.182	ug/l	98
13) Acrolein	1.99	56	18086	108.698	ug/l	98
14) Allyl chloride	2.08	41	71788	23.984	ug/l	85
15) Acrylonitrile	2.92	53	42790	102.335	ug/l	96
16) Acetone	2.22	43	64074	132.217	ug/l	96
17) Carbon Disulfide	1.82	76	188769m	22.320	ug/l	
18) Methyl Acetate	2.34	43	22201	22.476	ug/l	93
19) Methyl tert-butyl Ether	2.42	73	98306	21.389	ug/l	95
20) Methylene Chloride	2.17	84	63169m	20.343	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	62403	24.404	ug/l	94
22) Diisopropyl ether	2.78	45	175901	22.592	ug/l	96
23) Vinyl Acetate	3.17	43	360383	103.609	ug/l	98
24) 1,1-Dichloroethane	2.85	63	103506	22.241	ug/l	99
25) 2-Butanone	4.31	43	102736	104.221	ug/l	100
26) 2,2-Dichloropropane	3.57	77	46077	22.179	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	76299	21.537	ug/l	97
28) Bromochloromethane	3.69	49	42201	20.803	ug/l #	91
29) Tetrahydrofuran	4.05	42	40229	94.629	ug/l	99
30) Chloroform	3.84	83	115124	21.658	ug/l	99
31) Cyclohexane	3.67	56	101480m	20.819	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	71625	21.860	ug/l	88
36) 1,1-Dichloropropene	4.26	75	91785	20.196	ug/l	95
37) Ethyl Acetate	4.08	43	34341	18.002	ug/l	86
38) Carbon Tetrachloride	3.97	117	71681	22.281	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	110289	20.546	ug/l	96
40) Benzene	4.61	78	248847	20.948	ug/l	99
41) Methacrylonitrile	4.73	41	19966	19.104	ug/l #	85
42) 1,2-Dichloroethane	4.91	62	59934	20.245	ug/l	95
43) Isopropyl Acetate	6.93	43	46722	19.870	ug/l #	97
44) Trichloroethene	5.47	130	77181	20.906	ug/l	96
45) 1,2-Dichloropropane	6.20	63	56973	20.169	ug/l	99
46) Dibromomethane	6.06	93	32648	18.364	ug/l	96
47) Bromodichloromethane	6.36	83	81644	20.787	ug/l	97
48) Methyl methacrylate	6.69	41	26410	17.747	ug/l	98
49) 1,4-Dioxane	6.69	88	4339	318.954	ug/l #	66
51) 4-Methyl-2-Pentanone	8.24	43	156702	96.424	ug/l	99
52) Toluene	7.60	92	141864	20.187	ug/l	96
53) t-1,3-Dichloropropene	8.26	75	64386	19.859	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	92882	20.770	ug/l	98
55) 1,1,2-Trichloroethane	8.46	97	40234	19.870	ug/l	94
56) Ethyl methacrylate	8.60	69	47139	20.657	ug/l	93
57) 1,3-Dichloropropane	8.83	76	67998	20.535	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.27	63	41003	113.587	ug/l #	88
59) 2-Hexanone	9.47	43	123200	105.084	ug/l	99
60) Dibromochloromethane	8.69	129	57418	19.896	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44239	19.868	ug/l	97
64) Tetrachloroethene	8.13	164	64239	19.803	ug/l	94
65) Chlorobenzene	9.77	112	154732	19.077	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.90	131	63236	20.123	ug/l	100
67) Ethyl Benzene	9.87	91	289841	21.560	ug/l	98
68) m/p-Xylenes	10.11	106	219943	42.708	ug/l	100
69) o-Xylene	10.69	106	113325	20.435	ug/l	96
70) Styrene	10.77	104	154759	19.830	ug/l	98
71) Bromoform	10.75	173	32469	19.550	ug/l	95
73) Isopropylbenzene	11.11	105	325164	19.927	ug/l	100
74) N-amyl acetate	11.35	43	69963	18.624	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.68	83	49968	18.424	ug/l	91
76) 1,2,3-Trichloropropane	11.78	75	34301	18.531	ug/l	90
77) Bromobenzene	11.48	156	75929	19.334	ug/l	87
78) n-propylbenzene	11.58	91	366637	19.896	ug/l	99
79) 2-Chlorotoluene	11.70	91	206525	19.603	ug/l	97
80) 1,3,5-Trimethylbenzene	11.81	105	262761	20.056	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	15491m	18.302	ug/l	
82) 4-Chlorotoluene	11.88	91	223814	20.770	ug/l	94
83) tert-Butylbenzene	12.11	119	281614	20.243	ug/l	91
84) 1,2,4-Trimethylbenzene	12.19	105	264385	20.586	ug/l	95
85) sec-Butylbenzene	12.29	105	379564	20.966	ug/l	97
86) p-Isopropyltoluene	12.45	119	320664	20.838	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	155794	20.892	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	148377	20.627	ug/l	97
89) n-Butylbenzene	12.83	91	300735	20.449	ug/l	95
90) Hexachloroethane	12.90	117	72260	19.509	ug/l	90
91) 1,2-Dichlorobenzene	12.93	146	142482	20.167	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7968	19.412	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	102563	20.707	ug/l	94
94) Hexachlorobutadiene	14.17	225	64795	18.897	ug/l	97
95) Naphthalene	14.44	128	164786	18.679	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	89677	19.609	ug/l	96

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

