

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022619\
 Data File : VF061743.D
 Acq On : 26 Feb 2019 15:37
 Operator : VA/AP
 Sample : VF0226SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0226SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 3:19:22 PM

Quant Time: Feb 27 04:24:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	310818	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	475489	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	406573	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.53	152	231056	50.00	ug/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	125152	54.91	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	109.82%	
35) Dibromofluoromethane	4.09	113	182499	51.68	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	103.36%	
50) Toluene-d8	7.53	98	533621	52.57	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	11.40	95	208094	50.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	101.34%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	89543	25.086	ug/l	94
3) Chloromethane	1.10	50	85758	22.899	ug/l	98
4) Vinyl Chloride	1.13	62	81038	23.276	ug/l	91
5) Bromomethane	1.32	94	53944	22.513	ug/l	94
6) Chloroethane	1.39	64	40038	23.336	ug/l	97
7) Trichlorofluoromethane	1.48	101	98063m	23.353	ug/l	
8) Diethyl Ether	1.62	74	21448	20.268	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.83	101	67662	22.336	ug/l	90
10) Methyl Iodide	1.90	142	131385m	22.705	ug/l	
11) Tert butyl alcohol	2.57	59	13283	100.697	ug/l #	80
12) 1,1-Dichloroethene	1.79	96	60948	22.883	ug/l	96
13) Acrolein	1.99	56	15243	91.943	ug/l	99
14) Allyl chloride	2.09	41	71019	21.730	ug/l	98
15) Acrylonitrile	2.93	53	42084	89.944	ug/l #	79
16) Acetone	2.23	43	56624	115.788	ug/l	94
17) Carbon Disulfide	1.83	76	186183m	22.239	ug/l	
18) Methyl Acetate	2.33	43	28447m	25.822	ug/l	
19) Methyl tert-butyl Ether	2.41	73	98254	21.585	ug/l	97
20) Methylene Chloride	2.17	84	62486m	22.457	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	61078	21.095	ug/l	96
22) Diisopropyl ether	2.79	45	158531	20.207	ug/l	96
23) Vinyl Acetate	3.17	43	368946	96.284	ug/l	100
24) 1,1-Dichloroethane	2.86	63	97004	20.432	ug/l	99
25) 2-Butanone	4.31	43	106617	99.810	ug/l	99
26) 2,2-Dichloropropane	3.58	77	46546	23.145	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	78835	20.744	ug/l	97
28) Bromochloromethane	3.70	49	45578	20.008	ug/l	92
29) Tetrahydrofuran	4.05	42	44911	92.504	ug/l	95
30) Chloroform	3.84	83	119639	22.159	ug/l	100
31) Cyclohexane	3.67	56	105766m	20.579	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	69504	19.652	ug/l	97
36) 1,1-Dichloropropene	4.25	75	101637	21.578	ug/l	91
37) Ethyl Acetate	4.09	43	38316	17.513	ug/l #	76
38) Carbon Tetrachloride	3.96	117	69609	21.402	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	108501	19.477	ug/l	100
40) Benzene	4.61	78	254776	20.679	ug/l	100
41) Methacrylonitrile	4.72	41	21402	19.129	ug/l	90
42) 1,2-Dichloroethane	4.92	62	59527	20.198	ug/l	95
43) Isopropyl Acetate	6.94	43	45048	17.395	ug/l #	92
44) Trichloroethene	5.48	130	84140	21.118	ug/l	97
45) 1,2-Dichloropropane	6.21	63	61019	20.489	ug/l	99
46) Dibromomethane	6.06	93	36112	19.694	ug/l	95
47) Bromodichloromethane	6.36	83	83114	20.699	ug/l	98
48) Methyl methacrylate	6.69	41	28656	18.387	ug/l #	83
49) 1,4-Dioxane	6.68	88	5868	400.540	ug/l	87
51) 4-Methyl-2-Pentanone	8.23	43	171717	92.799	ug/l	99
52) Toluene	7.60	92	155589	20.822	ug/l	100
53) t-1,3-Dichloropropene	8.25	75	69213	20.711	ug/l	96
54) cis-1,3-Dichloropropene	7.28	75	100061	22.479	ug/l	94
55) 1,1,2-Trichloroethane	8.47	97	42399	19.313	ug/l	98
56) Ethyl methacrylate	8.60	69	46385	18.977	ug/l	98
57) 1,3-Dichloropropane	8.83	76	67926	18.537	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.28	63	40543	96.136	ug/l	100
59) 2-Hexanone	9.47	43	128540	99.098	ug/l	99
60) Dibromochloromethane	8.70	129	63014	20.622	ug/l	97
61) 1,2-Dibromoethane	8.96	107	45910	19.280	ug/l	100
64) Tetrachloroethene	8.13	164	73727	22.185	ug/l	93
65) Chlorobenzene	9.77	112	168860	20.467	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	71395	22.084	ug/l	97
67) Ethyl Benzene	9.88	91	298555	21.760	ug/l	100
68) m/p-Xylenes	10.11	106	218117	41.539	ug/l	99
69) o-Xylene	10.70	106	120875	21.573	ug/l	93
70) Styrene	10.77	104	169471	21.381	ug/l	99
71) Bromoform	10.76	173	35129	20.011	ug/l	97
73) Isopropylbenzene	11.10	105	350621	21.313	ug/l	99
74) N-amyl acetate	11.36	43	78044	19.765	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	56561	19.191	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	37457	18.693	ug/l	88
77) Bromobenzene	11.48	156	83571	20.563	ug/l	95
78) n-propylbenzene	11.57	91	368415	19.516	ug/l	95
79) 2-Chlorotoluene	11.70	91	228335	21.597	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	279943	21.292	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	17552m	18.271	ug/l	
82) 4-Chlorotoluene	11.88	91	222605	20.285	ug/l	94
83) tert-Butylbenzene	12.12	119	313044	21.496	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	278933	21.354	ug/l	96
85) sec-Butylbenzene	12.29	105	400587	21.271	ug/l	99
86) p-Isopropyltoluene	12.44	119	335907	21.254	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	160798	20.295	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	160755	21.097	ug/l	97
89) n-Butylbenzene	12.83	91	328210	21.992	ug/l	98
90) Hexachloroethane	12.91	117	76738	20.877	ug/l	99
91) 1,2-Dichlorobenzene	12.93	146	151765	20.139	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8395	17.966	ug/l	78

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	116199	21.512	ug/l	95
94) Hexachlorobutadiene	14.18	225	74369	22.293	ug/l	97
95) Naphthalene	14.44	128	186257	19.708	ug/l	100
96) 1,2,3-Trichlorobenzene	14.58	180	104544	21.087	ug/l	93

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

