

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061822.D
 Acq On : 4 Mar 2019 16:04
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:07 AM

Quant Time: Mar 05 04:42:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:03:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	327135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	505976	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	432520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	239939	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	11384	4.75	ug/l	0.00
Spiked Amount			Recovery	=	9.50%	
35) Dibromofluoromethane	4.12	113	16501	4.39	ug/l	0.00
Spiked Amount			Recovery	=	8.78%	
50) Toluene-d8	7.56	98	50201	4.65	ug/l	0.00
Spiked Amount			Recovery	=	9.30%	
62) 4-Bromofluorobenzene	11.42	95	20250	4.63	ug/l	0.00
Spiked Amount			Recovery	=	9.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	20215	5.381	ug/l	94
3) Chloromethane	1.09	50	21838	5.540	ug/l #	83
4) Vinyl Chloride	1.14	62	19074	5.205	ug/l	93
5) Bromomethane	1.33	94	14238	5.646	ug/l	96
6) Chloroethane	1.40	64	9022	4.996	ug/l	94
7) Trichlorofluoromethane	1.49	101	22414m	5.071	ug/l	
8) Diethyl Ether	1.63	74	5229	4.695	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.83	101	17328	5.435	ug/l #	86
10) Methyl Iodide	1.92	142	32031m	5.259	ug/l	
11) Tert butyl alcohol	2.58	59	3039	21.889	ug/l	99
12) 1,1-Dichloroethene	1.80	96	15468	5.518	ug/l	90
13) Acrolein	2.00	56	5135	29.428	ug/l	97
14) Allyl chloride	2.10	41	16957	4.930	ug/l	95
15) Acrylonitrile	2.96	53	11924	24.214	ug/l #	89
16) Acetone	2.25	43	14297	27.777	ug/l	92
17) Carbon Disulfide	1.83	76	46596	5.288	ug/l	97
18) Methyl Acetate	2.35	43	9786m	8.440	ug/l	
19) Methyl tert-butyl Ether	2.44	73	24529	5.120	ug/l	99
20) Methylene Chloride	2.19	84	29751m	9.569	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	15922	5.225	ug/l #	90
22) Diisopropyl ether	2.81	45	41723	5.053	ug/l #	98
23) Vinyl Acetate	3.19	43	89237	22.127	ug/l #	94
24) 1,1-Dichloroethane	2.88	63	24251	4.853	ug/l	97
25) 2-Butanone	4.35	43	25729	22.885	ug/l	93
26) 2,2-Dichloropropane	3.62	77	11892	5.618	ug/l	82
27) cis-1,2-Dichloroethene	3.48	96	18905	4.726	ug/l	95
28) Bromochloromethane	3.72	49	11679	4.871	ug/l	94
29) Tetrahydrofuran	4.10	42	11575	22.652	ug/l	98
30) Chloroform	3.87	83	28528	5.020	ug/l	99
31) Cyclohexane	3.70	56	26613	4.920	ug/l	93
32) 1,1,1-Trichloroethane	4.11	97	18661	5.013	ug/l	96
36) 1,1-Dichloropropene	4.29	75	23660	4.720	ug/l	89
37) Ethyl Acetate	4.13	43	9800	4.209	ug/l #	89
38) Carbon Tetrachloride	4.00	117	16775	4.847	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	27586	4.654	ug/l	89
40) Benzene	4.64	78	60852	4.641	ug/l	99
41) Methacrylonitrile	4.76	41	5661	4.755	ug/l #	83
42) 1,2-Dichloroethane	4.95	62	13416	4.278	ug/l	98
43) Isopropyl Acetate	6.97	43	12394	4.498	ug/l #	99
44) Trichloroethene	5.51	130	19881	4.689	ug/l	99
45) 1,2-Dichloropropane	6.25	63	14775	4.662	ug/l	94
46) Dibromomethane	6.10	93	8496	4.354	ug/l	88
47) Bromodichloromethane	6.40	83	19326	4.523	ug/l	88
48) Methyl methacrylate	6.73	41	6985	4.212	ug/l	96
49) 1,4-Dioxane	6.72	88	1075	68.956	ug/l #	76
51) 4-Methyl-2-Pentanone	8.27	43	41662	21.158	ug/l	96
52) Toluene	7.63	92	38086	4.790	ug/l	88
53) t-1,3-Dichloropropene	8.28	75	16628	4.676	ug/l	91
54) cis-1,3-Dichloropropene	7.30	75	23103	4.877	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	10289	4.404	ug/l #	72
56) Ethyl methacrylate	8.63	69	11553	4.442	ug/l	97
57) 1,3-Dichloropropane	8.86	76	16177	4.149	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.30	63	8683	19.349	ug/l	89
59) 2-Hexanone	9.50	43	33437	24.225	ug/l	98
60) Dibromochloromethane	8.72	129	14373	4.420	ug/l	99
61) 1,2-Dibromoethane	9.00	107	11345	4.477	ug/l	90
64) Tetrachloroethene	8.16	164	15987	4.522	ug/l	94
65) Chlorobenzene	9.80	112	41920	4.776	ug/l	90
66) 1,1,1,2-Tetrachloroethane	9.94	131	15696	4.564	ug/l	92
67) Ethyl Benzene	9.91	91	70603	4.837	ug/l	96
68) m/p-Xylenes	10.13	106	55722	9.975	ug/l	98
69) o-Xylene	10.72	106	28571	4.793	ug/l	93
70) Styrene	10.79	104	40662	4.822	ug/l	95
71) Bromoform	10.78	173	8011	4.290	ug/l	87
73) Isopropylbenzene	11.13	105	83717	4.901	ug/l	94
74) N-amyl acetate	11.38	43	17746	4.328	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	13510	4.414	ug/l	92
76) 1,2,3-Trichloropropane	11.80	75	9131	4.388	ug/l	99
77) Bromobenzene	11.49	156	20782	4.924	ug/l	85
78) n-propylbenzene	11.59	91	97366	4.967	ug/l	93
79) 2-Chlorotoluene	11.72	91	54573	4.971	ug/l	89
80) 1,3,5-Trimethylbenzene	11.83	105	68185	4.994	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.87	75	4203m	4.213	ug/l	
82) 4-Chlorotoluene	11.90	91	54655	4.796	ug/l	91
83) tert-Butylbenzene	12.14	119	65700	4.344	ug/l	91
84) 1,2,4-Trimethylbenzene	12.20	105	66270	4.886	ug/l	97
85) sec-Butylbenzene	12.31	105	93320	4.772	ug/l	99
86) p-Isopropyltoluene	12.46	119	80815	4.924	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	40766	4.955	ug/l	94
88) 1,4-Dichlorobenzene	12.57	146	37255	4.708	ug/l	97
89) n-Butylbenzene	12.85	91	77996	5.033	ug/l	94
90) Hexachloroethane	12.91	117	17665	4.628	ug/l	80
91) 1,2-Dichlorobenzene	12.94	146	37783	4.828	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	1595	3.287	ug/l	84

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	27495	4.902	ug/l	98
94) Hexachlorobutadiene	14.19	225	21807	6.295	ug/l	92
95) Naphthalene	14.46	128	42750	4.356	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	21837	4.241	ug/l	93

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

