

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020320\
 Data File : VX014797.D
 Acq On : 03 Feb 2020 16:55
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/4/2020 3:32:27 PM

Quant Time: Feb 03 18:18:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	103381	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	630829	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	581513	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	240851	33.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.50%
60) 4-Bromofluorobenzene	11.13	95	278717	29.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.83%
63) Toluene-d8	8.71	98	766051	29.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	271927	38.060	ug/l 100
3) Chloromethane	1.32	50	265894	33.992	ug/l 95
4) Vinyl Chloride	1.40	62	311448	35.460	ug/l 99
5) Bromomethane	1.63	94	194721	35.528	ug/l 99
6) Chloroethane	1.71	64	168250	33.981	ug/l 99
7) Trichlorofluoromethane	1.92	101	361977	37.222	ug/l 100
8) Diethyl Ether	2.18	74	152739	35.957	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	218590	38.419	ug/l 99
10) 1,1-Dichloroethene	2.36	96	207022	36.174	ug/l 95
11) Methyl Iodide	2.50	142	287696	37.484	ug/l 99
12) Methyl Acetate	2.76	43	385775	37.315	ug/l 99
13) Acrolein	2.28	56	220663	203.204	ug/l 98
14) Acrylonitrile	3.12	53	632912	178.915	ug/l 100
15) Acetone	2.43	58	163511	137.876	ug/l 85
16) Carbon Disulfide	2.56	76	515758	32.814	ug/l 98
17) Allyl chloride	2.72	41	375758	35.477	ug/l 95
18) Methylene Chloride	2.84	84	240403	35.892	ug/l 94
19) trans-1,2-Dichloroethene	3.16	96	222023	36.038	ug/l 99
20) Diisopropyl ether	3.84	45	778722	37.161	ug/l 98
21) 1,1-Dichloroethane	3.69	63	418720	36.781	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	257930	36.433	ug/l 97
23) tert-Butyl Alcohol	3.03	59	238809	163.235	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	719426	37.773	ug/l 98
25) Chloroform	5.19	83	409160	37.103	ug/l 100
26) Cyclohexane	5.56	56	380866	36.271	ug/l # 97
29) 1,1-Dichloropropene	5.78	75	310214	33.531	ug/l 100
30) 2-Butanone	4.65	43	880470	150.237	ug/l 99
31) 2,2-Dichloropropane	4.56	77	349633	35.320	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	348495	34.048	ug/l 100
33) Carbon Tetrachloride	5.77	117	305342	34.749	ug/l 96
34) Benzene	6.12	78	926183	32.397	ug/l 98
35) Methacrylonitrile	5.02	41	191614	32.737	ug/l 97
36) 1,2-Dichloroethane	6.17	62	333895	33.561	ug/l 98
37) Trichloroethene	7.20	130	258589	33.035	ug/l 95
38) Methylcyclohexane	7.45	83	395511	34.335	ug/l 99
39) 1,2-Dichloropropane	7.50	63	247310	33.267	ug/l 93
40) Dibromomethane	7.65	93	158160	33.104	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	324055	34.636	ug/l	99
42) Vinyl Acetate	3.80	43	3065470	169.706	ug/l	99
43) Ethyl Acetate	4.81	43	336959	31.761	ug/l	100
44) Isopropyl Acetate	6.43	43	566306	33.089	ug/l	100
45) 1,4-Dioxane	7.73	88	99697	582.352	ug/l	98
46) Methyl methacrylate	7.76	41	280763	33.359	ug/l	98
47) n-amyl Acetate	10.89	43	500069	34.872	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	361430	35.384	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	395736	34.384	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	243380	33.478	ug/l	98
51) Ethyl methacrylate	9.17	69	382717	33.811	ug/l	98
52) 1,3-Dichloropropane	9.36	76	410168	33.300	ug/l	99
53) Dibromochloromethane	9.57	129	262989	35.367	ug/l	99
54) 1,2-Dibromoethane	9.67	107	250976	33.287	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	657869	126.460	ug/l	100
56) Bromoform	10.85	173	204793	35.755	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	1775850	162.165	ug/l	99
59) 2-Hexanone	9.48	43	1356959	160.222	ug/l	99
61) Tetrachloroethene	9.33	164	274116	31.892	ug/l	95
62) Toluene	8.78	91	1017911	32.993	ug/l	100
64) Chlorobenzene	10.13	112	646492	33.567	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	242348	34.070	ug/l	100
66) Ethyl Benzene	10.25	91	1149590	34.209	ug/l	99
67) m/p-Xylenes	10.35	106	872949	67.818	ug/l	99
68) o-Xylene	10.69	106	421960	33.664	ug/l	100
69) Styrene	10.70	104	725245	34.150	ug/l	99
70) Isopropylbenzene	11.01	105	1137433	34.639	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	363705	32.881	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	316894m	33.493	ug/l	
73) Bromobenzene	11.25	156	292458	33.598	ug/l	98
74) n-propylbenzene	11.35	91	1318629	35.142	ug/l	99
75) 2-Chlorotoluene	11.42	91	762126	33.890	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	959462	35.066	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	128392	35.259	ug/l	90
78) 4-Chlorotoluene	11.50	91	879064	34.420	ug/l	98
79) tert-butylbenzene	11.76	119	915211	35.747	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	953312	34.932	ug/l	100
81) sec-Butylbenzene	11.94	105	1122317	35.426	ug/l	99
82) p-Isopropyltoluene	12.06	119	1036252	35.829	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	520920	34.273	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	523530	34.743	ug/l	99
85) n-Butylbenzene	12.39	91	909239	35.931	ug/l	100
86) Hexachloroethane	12.59	117	186327	35.926	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	520282	33.926	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	79822	33.783	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	359979	35.562	ug/l	99
90) Hexachlorobutadiene	13.78	225	185660	36.706	ug/l	97
91) Naphthalene	13.83	128	1074069	35.151	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	368116	35.727	ug/l	99

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

