

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022120\
 Data File : VX014993.D
 Acq On : 21 Feb 2020 14:12
 Operator : JC/SP
 Sample : VX0221WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0221WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/24/2020 11:29:19 AM

Quant Time: Feb 22 00:48:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	75810	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	398033	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	365693	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	152487	28.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.43%
60) 4-Bromofluorobenzene	11.13	95	170525	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	8.71	98	475965	29.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	61624	18.203	ug/l 97
3) Chloromethane	1.32	50	81525	18.624	ug/l 95
4) Vinyl Chloride	1.40	62	87211	18.512	ug/l 99
5) Bromomethane	1.64	94	62090	18.820	ug/l 99
6) Chloroethane	1.72	64	58691	18.598	ug/l 98
7) Trichlorofluoromethane	1.93	101	129598	18.902	ug/l 95
8) Diethyl Ether	2.18	74	57291	19.863	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	77575	19.569	ug/l 100
10) 1,1-Dichloroethene	2.37	96	75481	18.940	ug/l 99
11) Methyl Iodide	2.50	142	82490	17.035	ug/l 99
12) Methyl Acetate	2.76	43	101737	20.515	ug/l 99
13) Acrolein	2.28	56	90309	91.566	ug/l 98
14) Acrylonitrile	3.12	53	224282	100.144	ug/l 99
15) Acetone	2.42	58	65989	82.332	ug/l 96
16) Carbon Disulfide	2.56	76	198906	18.563	ug/l 100
17) Allyl chloride	2.72	41	130605	18.840	ug/l 97
18) Methylene Chloride	2.85	84	88719	19.322	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	83963	19.181	ug/l 97
20) Diisopropyl ether	3.84	45	275945	19.491	ug/l 99
21) 1,1-Dichloroethane	3.69	63	146863	18.923	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	96653	19.296	ug/l 97
23) tert-Butyl Alcohol	2.76	59	8999	10.136	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	265294	20.009	ug/l 99
25) Chloroform	5.20	83	150087	19.177	ug/l 98
26) Cyclohexane	5.57	56	132364	19.083	ug/l 99
29) 1,1-Dichloropropene	5.79	75	113590	20.176	ug/l 99
30) 2-Butanone	4.65	43	317749	97.780	ug/l 99
31) 2,2-Dichloropropane	4.57	77	118122	19.107	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	126322	19.758	ug/l 98
33) Carbon Tetrachloride	5.78	117	108402	19.369	ug/l 90
34) Benzene	6.13	78	340847	20.064	ug/l 98
35) Methacrylonitrile	5.02	41	69885	21.082	ug/l 97
36) 1,2-Dichloroethane	6.18	62	122622	20.392	ug/l 99
37) Trichloroethene	7.20	130	97625	20.467	ug/l 96
38) Methylcyclohexane	7.45	83	141212	20.236	ug/l 98
39) 1,2-Dichloropropane	7.50	63	86348	19.747	ug/l 99
40) Dibromomethane	7.65	93	59783	20.474	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	117264	20.330	ug/l	98
42) Vinyl Acetate	3.80	43	1184490	103.557	ug/l	99
43) Ethyl Acetate	4.81	43	123069	20.931	ug/l	96
44) Isopropyl Acetate	6.43	43	201275	20.363	ug/l	99
45) 1,4-Dioxane	7.73	88	41215	451.260	ug/l	95
46) Methyl methacrylate	7.76	41	100082	20.467	ug/l	99
47) n-amyl Acetate	10.89	43	172700	20.168	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	129844	20.290	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	140573	19.953	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	89975	20.683	ug/l	96
51) Ethyl methacrylate	9.17	69	137144	20.426	ug/l	98
52) 1,3-Dichloropropane	9.36	76	149616	20.331	ug/l	99
53) Dibromochloromethane	9.57	129	97352	20.699	ug/l	98
54) 1,2-Dibromoethane	9.67	107	97178	21.040	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	338750	94.714	ug/l	100
56) Bromoform	10.85	173	72781	19.740	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	628270	104.830	ug/l	99
59) 2-Hexanone	9.48	43	474158	101.257	ug/l	99
61) Tetrachloroethene	9.33	164	99140	20.184	ug/l	96
62) Toluene	8.78	91	375079	20.024	ug/l	99
64) Chlorobenzene	10.13	112	240422	20.109	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	90474	20.430	ug/l	99
66) Ethyl Benzene	10.25	91	418943	20.304	ug/l	98
67) m/p-Xylenes	10.36	106	317316	39.881	ug/l	100
68) o-Xylene	10.69	106	152605	19.822	ug/l	99
69) Styrene	10.71	104	261764	19.908	ug/l	99
70) Isopropylbenzene	11.01	105	408275	19.965	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	134767	20.468	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	114871m	21.033	ug/l	
73) Bromobenzene	11.25	156	111312	20.145	ug/l	99
74) n-propylbenzene	11.35	91	475335	20.423	ug/l	100
75) 2-Chlorotoluene	11.42	91	278684	20.262	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	345134	20.138	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	42146	19.137	ug/l	98
78) 4-Chlorotoluene	11.51	91	318522	20.021	ug/l	99
79) tert-butylbenzene	11.76	119	334141	20.181	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	344870	20.241	ug/l	99
81) sec-Butylbenzene	11.94	105	401552	20.251	ug/l	99
82) p-Isopropyltoluene	12.06	119	372481	20.220	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	196892	20.327	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	202624	20.773	ug/l	99
85) n-Butylbenzene	12.38	91	319344	19.921	ug/l	100
86) Hexachloroethane	12.59	117	64053	19.237	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	198856	20.631	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29135	20.318	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	139319	20.100	ug/l	99
90) Hexachlorobutadiene	13.78	225	69038	20.055	ug/l	98
91) Naphthalene	13.83	128	400471	20.407	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	139438	20.262	ug/l	100

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

