

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017302.D
 Acq On : 09 Jul 2020 12:00
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:39 PM

Quant Time: Jul 09 12:24:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 11:39:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	50062	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	259738	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	261006	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	110218	28.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.83%
60) 4-Bromofluorobenzene	11.12	95	134719	30.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.30%
63) Toluene-d8	8.70	98	315548	27.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	91.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	266342	109.493	ug/l 98
3) Chloromethane	1.31	50	357372	115.760	ug/l 98
4) Vinyl Chloride	1.39	62	342692	108.656	ug/l 97
5) Bromomethane	1.62	94	206741	91.956	ug/l 97
6) Chloroethane	1.70	64	230792	112.468	ug/l 97
7) Trichlorofluoromethane	1.91	101	553049	105.035	ug/l 96
8) Diethyl Ether	2.17	74	228684	120.707	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.36	101	291479	104.113	ug/l 99
10) 1,1-Dichloroethene	2.35	96	329649	120.473	ug/l 95
11) Methyl Iodide	2.49	142	503005	138.927	ug/l 99
12) Methyl Acetate	2.75	43	503796	142.850	ug/l 99
13) Acrolein	2.28	56	349214	640.027	ug/l 97
14) Acrylonitrile	3.12	53	1147153	696.166	ug/l 100
15) Acetone	2.42	58	293098	692.978	ug/l 98
16) Carbon Disulfide	2.54	76	906765	106.590	ug/l 99
17) Allyl chloride	2.70	41	650263	127.985	ug/l 94
18) Methylene Chloride	2.83	84	414763	125.042	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	387664	123.080	ug/l 96
20) Diisopropyl ether	3.82	45	1278379	124.228	ug/l 97
21) 1,1-Dichloroethane	3.67	63	711412	125.517	ug/l 96
22) cis-1,2-Dichloroethene	4.56	96	463530	132.874	ug/l 98
23) tert-Butyl Alcohol	3.03	59	491478	682.682	ug/l # 99
24) Methyl tert-Butyl Ether	3.17	73	1360821	137.753	ug/l 100
25) Chloroform	5.18	83	766788	132.229	ug/l 94
26) Cyclohexane	5.54	56	493599	101.070	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	513118	125.154	ug/l 99
30) 2-Butanone	4.64	43	1565732	731.513	ug/l 99
31) 2,2-Dichloropropane	4.55	77	631475	133.048	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	673326	134.245	ug/l 97
33) Carbon Tetrachloride	5.76	117	595212	132.924	ug/l 97
34) Benzene	6.11	78	1594403	133.777	ug/l 98
35) Methacrylonitrile	5.01	41	353336	149.682	ug/l 98
36) 1,2-Dichloroethane	6.17	62	642699	139.941	ug/l 99
37) Trichloroethene	7.19	130	467037	141.305	ug/l 99
38) Methylcyclohexane	7.44	83	490087	105.774	ug/l 98
39) 1,2-Dichloropropane	7.49	63	427550	137.416	ug/l 97
40) Dibromomethane	7.63	93	308606	143.384	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	653025	146.449	ug/l	99
42) Vinyl Acetate	3.79	43	5852231	684.055	ug/l	100
43) Ethyl Acetate	4.80	43	609923	138.358	ug/l	100
44) Isopropyl Acetate	6.42	43	1044716	143.923	ug/l	99
45) 1,4-Dioxane	7.72	88	204857	2861.394	ug/l	95
46) Methyl methacrylate	7.74	41	523153	154.599	ug/l	98
47) n-amyl Acetate	10.88	43	963999	150.370	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	750806	151.958	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	762279	147.061	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	457210	150.141	ug/l	99
51) Ethyl methacrylate	9.16	69	742258	161.340	ug/l	97
52) 1,3-Dichloropropane	9.35	76	762374	148.247	ug/l	100
53) Dibromochloromethane	9.57	129	584186	165.343	ug/l	98
54) 1,2-Dibromoethane	9.65	107	502331	155.514	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	1874720	773.533	ug/l	99
56) Bromoform	10.84	173	460908	180.909	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	3226625	691.806	ug/l	99
59) 2-Hexanone	9.48	43	2450594	702.553	ug/l	98
61) Tetrachloroethene	9.32	164	433819	129.831	ug/l	98
62) Toluene	8.77	91	1767231	127.456	ug/l	100
64) Chlorobenzene	10.12	112	1212099	138.114	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	508577	152.603	ug/l	98
66) Ethyl Benzene	10.24	91	2075680	134.908	ug/l	100
67) m/p-Xylenes	10.34	106	1597743	273.090	ug/l	98
68) o-Xylene	10.68	106	786125	141.271	ug/l	96
69) Styrene	10.70	104	1414786	146.726	ug/l	98
70) Isopropylbenzene	11.00	105	2044333	134.018	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	664935	141.432	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	633323m	140.139	ug/l	
73) Bromobenzene	11.24	156	601362	154.033	ug/l	98
74) n-propylbenzene	11.35	91	2362764	131.287	ug/l	99
75) 2-Chlorotoluene	11.40	91	1456606	137.124	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	1789004	139.209	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	267142	146.920	ug/l	89
78) 4-Chlorotoluene	11.49	91	1734883	138.206	ug/l	100
79) tert-butylbenzene	11.76	119	1725130	140.378	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	1791981	138.984	ug/l	99
81) sec-Butylbenzene	11.93	105	1936549	130.901	ug/l	100
82) p-Isopropyltoluene	12.05	119	1837712	136.566	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	1047129	149.293	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	1038432	147.404	ug/l	99
85) n-Butylbenzene	12.37	91	1538542	125.322	ug/l	99
86) Hexachloroethane	12.58	117	359596	137.383	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	1009011	153.325	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	170170	158.084	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	696755	156.587	ug/l	99
90) Hexachlorobutadiene	13.77	225	242092	140.305	ug/l	98
91) Naphthalene	13.82	128	2285891	159.493	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	690257	158.068	ug/l	98

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

