

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019470.D
 Acq On : 19 Nov 2020 16:58
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:04 PM

Quant Time: Nov 19 17:31:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 19 17:22:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	48068	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	259466	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	244153	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	101499	31.33	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.43%
60) 4-Bromofluorobenzene	11.12	95	121374	32.55	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	108.50%
63) Toluene-d8	8.70	98	323402	30.00	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	132037	51.797	ug/l 98
3) Chloromethane	1.31	50	149130	62.102	ug/l 97
4) Vinyl Chloride	1.39	62	159387	52.968	ug/l 97
5) Bromomethane	1.62	94	62834	31.839	ug/l 99
6) Chloroethane	1.69	64	47944	25.979	ug/l 97
7) Trichlorofluoromethane	1.90	101	229386	45.387	ug/l 98
8) Diethyl Ether	2.17	74	92865	48.527	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	127291	51.237	ug/l 97
10) 1,1-Dichloroethene	2.35	96	128906	51.089	ug/l 98
11) Methyl Iodide	2.48	142	174104	67.852	ug/l 98
12) Methyl Acetate	2.75	43	155099	59.694	ug/l 98
13) Acrolein	2.28	56	114510	410.534	ug/l 99
14) Acrylonitrile	3.12	53	387373	313.901	ug/l 100
15) Acetone	2.43	58	110002	306.612	ug/l 95
16) Carbon Disulfide	2.54	76	340337	49.419	ug/l 99
17) Allyl chloride	2.70	41	195996	60.051	ug/l 98
18) Methylene Chloride	2.83	84	156071	53.412	ug/l 96
19) trans-1,2-Dichloroethene	3.14	96	144618	49.723	ug/l 95
20) Diisopropyl ether	3.82	45	423488	62.950	ug/l 97
21) 1,1-Dichloroethane	3.67	63	254044	53.698	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	167386	49.658	ug/l 98
23) tert-Butyl Alcohol	3.04	59	164369	276.326	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	448043	55.394	ug/l 100
25) Chloroform	5.17	83	269977	51.975	ug/l 99
26) Cyclohexane	5.54	56	218622	58.316	ug/l # 98
29) 1,1-Dichloropropene	5.76	75	197862	52.055	ug/l 98
30) 2-Butanone	4.64	43	508183	315.083	ug/l 99
31) 2,2-Dichloropropane	4.54	77	220944	50.806	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	230417	50.535	ug/l 99
33) Carbon Tetrachloride	5.75	117	199437	50.544	ug/l 97
34) Benzene	6.11	78	613826	53.959	ug/l 99
35) Methacrylonitrile	5.00	41	102343	60.132	ug/l 96
36) 1,2-Dichloroethane	6.16	62	210921	53.879	ug/l 100
37) Trichloroethene	7.18	130	161677	50.195	ug/l 99
38) Methylcyclohexane	7.44	83	238664	55.077	ug/l 99
39) 1,2-Dichloropropane	7.49	63	150809	56.008	ug/l 99
40) Dibromomethane	7.63	93	106077	51.908	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	210671	52.560	ug/l	99
42) Vinyl Acetate	3.78	43	1833850	300.813	ug/l	99
43) Ethyl Acetate	4.79	43	192283	58.455	ug/l	99
44) Isopropyl Acetate	6.41	43	314185	57.334	ug/l	99
45) 1,4-Dioxane	7.72	88	70940	1217.815	ug/l	98
46) Methyl methacrylate	7.74	41	156620	60.305	ug/l	98
47) n-amyl Acetate	10.88	43	273313	61.903	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	232747	52.224	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	254342	53.322	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	160111	53.483	ug/l	93
51) Ethyl methacrylate	9.16	69	235349	54.877	ug/l	99
52) 1,3-Dichloropropane	9.35	76	269775	55.373	ug/l	99
53) Dibromochloromethane	9.56	129	164569	50.597	ug/l	98
54) 1,2-Dibromoethane	9.65	107	168736	52.591	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	628545	277.265	ug/l	99
56) Bromoform	10.84	173	117303	51.662	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	987650	300.209	ug/l	99
59) 2-Hexanone	9.48	43	764379	310.580	ug/l	100
61) Tetrachloroethene	9.32	164	152517	50.079	ug/l	92
62) Toluene	8.76	91	678895	51.188	ug/l	99
64) Chlorobenzene	10.12	112	416197	50.377	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	153205	50.951	ug/l	99
66) Ethyl Benzene	10.23	91	758217	52.023	ug/l	98
67) m/p-Xylenes	10.34	106	575000	103.625	ug/l	100
68) o-Xylene	10.68	106	268531	50.745	ug/l	99
69) Styrene	10.70	104	465049	51.997	ug/l	99
70) Isopropylbenzene	11.00	105	727227	50.889	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	244158	57.522	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	221016m	58.189	ug/l	
73) Bromobenzene	11.24	156	176390	50.442	ug/l	98
74) n-propylbenzene	11.34	91	856661	52.915	ug/l	99
75) 2-Chlorotoluene	11.40	91	504485	54.192	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	627084	53.775	ug/l	98
77) t-1,4-Dichloro-2-butene	11.05	75	78143	53.768	ug/l	98
78) 4-Chlorotoluene	11.49	91	594374	54.524	ug/l	100
79) tert-butylbenzene	11.76	119	596593	52.401	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	633103	54.618	ug/l	98
81) sec-Butylbenzene	11.93	105	712135	52.474	ug/l	99
82) p-Isopropyltoluene	12.05	119	646665	51.928	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	324036	51.406	ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	335340	52.424	ug/l	99
85) n-Butylbenzene	12.37	91	594595	53.433	ug/l	99
86) Hexachloroethane	12.58	117	108373	55.639	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	330247	54.425	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	52082	55.515	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	222687	52.166	ug/l	99
90) Hexachlorobutadiene	13.76	225	95352	51.193	ug/l	94
91) Naphthalene	13.82	128	714383	51.378	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	222025	53.519	ug/l	100

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

