

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022120\
 Data File : VX014985.D
 Acq On : 21 Feb 2020 09:59
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 2/24/2020 11:28:54 AM

Quant Time: Feb 21 11:06:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 10:51:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	76671	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	418464	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	382998	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	158433	29.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.87%
60) 4-Bromofluorobenzene	11.13	95	180553	29.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.57%
63) Toluene-d8	8.71	98	497333	28.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	168562	34.676	ug/l 97
3) Chloromethane	1.32	50	218196	39.914	ug/l 97
4) Vinyl Chloride	1.41	62	241183	39.539	ug/l 99
5) Bromomethane	1.64	94	158923	39.887	ug/l 98
6) Chloroethane	1.72	64	157634	44.525	ug/l 99
7) Trichlorofluoromethane	1.93	101	350394	49.071	ug/l 97
8) Diethyl Ether	2.18	74	151013	48.661	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	205944	49.502	ug/l 99
10) 1,1-Dichloroethene	2.37	96	204186	48.718	ug/l 99
11) Methyl Iodide	2.51	142	272035	49.576	ug/l 99
12) Methyl Acetate	2.76	43	260323	36.649	ug/l 100
13) Acrolein	2.28	56	250850	300.773	ug/l 99
14) Acrylonitrile	3.13	53	590956	233.807	ug/l 99
15) Acetone	2.43	58	214096	247.547	ug/l 98
16) Carbon Disulfide	2.57	76	554697	48.465	ug/l 99
17) Allyl chloride	2.72	41	361808	47.173	ug/l 98
18) Methylene Chloride	2.85	84	231404	47.317	ug/l 93
19) trans-1,2-Dichloroethene	3.16	96	225164	49.717	ug/l 98
20) Diisopropyl ether	3.84	45	730080	47.738	ug/l 98
21) 1,1-Dichloroethane	3.69	63	401849	48.462	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	260168	49.786	ug/l 99
23) tert-Butyl Alcohol	3.02	59	230979m	220.652	ug/l
24) Methyl tert-Butyl Ether	3.19	73	688624	49.452	ug/l 99
25) Chloroform	5.20	83	406472	50.053	ug/l 96
26) Cyclohexane	5.58	56	359264	47.113	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	307328	50.786	ug/l 99
30) 2-Butanone	4.65	43	910304	241.022	ug/l 99
31) 2,2-Dichloropropane	4.58	77	335910	51.522	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	346134	51.368	ug/l 99
33) Carbon Tetrachloride	5.78	117	303578	52.218	ug/l 96
34) Benzene	6.14	78	921359	49.533	ug/l 97
35) Methacrylonitrile	5.03	41	184400	49.119	ug/l 96
36) 1,2-Dichloroethane	6.19	62	329407	50.692	ug/l 99
37) Trichloroethene	7.21	130	262897	51.555	ug/l 93
38) Methylcyclohexane	7.46	83	381194	50.745	ug/l 100
39) 1,2-Dichloropropane	7.51	63	236214	48.924	ug/l 99
40) Dibromomethane	7.65	93	157101	49.957	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	318755	51.804	ug/l	99
42) Vinyl Acetate	3.81	43	3181711	266.854	ug/l	99
43) Ethyl Acetate	4.82	43	324539	47.687	ug/l	97
44) Isopropyl Acetate	6.43	43	546277	49.292	ug/l	99
45) 1,4-Dioxane	7.73	88	102456	941.286	ug/l	99
46) Methyl methacrylate	7.76	41	273209	50.195	ug/l	98
47) n-amyl Acetate	10.89	43	482730	51.437	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	357458	53.228	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	389065	51.529	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	235738	49.603	ug/l	97
51) Ethyl methacrylate	9.17	69	376135	50.829	ug/l	99
52) 1,3-Dichloropropane	9.37	76	397429	49.359	ug/l	99
53) Dibromochloromethane	9.57	129	260974	53.008	ug/l	99
54) 1,2-Dibromoethane	9.67	107	251793	51.115	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	954278	272.488	ug/l	99
56) Bromoform	10.85	173	202931	53.501	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1660648	238.284	ug/l	100
59) 2-Hexanone	9.48	43	1309967	242.003	ug/l	99
61) Tetrachloroethene	9.33	164	264873	47.835	ug/l	97
62) Toluene	8.78	91	999794	49.834	ug/l	99
64) Chlorobenzene	10.14	112	642918	51.179	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	239273	51.525	ug/l	100
66) Ethyl Benzene	10.25	91	1129245	51.498	ug/l	99
67) m/p-Xylenes	10.36	106	869747	103.606	ug/l	98
68) o-Xylene	10.70	106	418457	51.224	ug/l	99
69) Styrene	10.71	104	726434	52.435	ug/l	99
70) Isopropylbenzene	11.01	105	1116788	51.929	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	355430	49.622	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	301182m	48.050	ug/l	
73) Bromobenzene	11.25	156	299267	52.325	ug/l	99
74) n-propylbenzene	11.35	91	1287243	52.328	ug/l	100
75) 2-Chlorotoluene	11.42	91	742544	50.450	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	938852	52.350	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	124382	52.496	ug/l	94
78) 4-Chlorotoluene	11.51	91	863157	51.592	ug/l	100
79) tert-butylbenzene	11.76	119	897952	53.215	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	931917	52.231	ug/l	100
81) sec-Butylbenzene	11.94	105	1087357	52.230	ug/l	99
82) p-Isopropyltoluene	12.06	119	1012620	53.217	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	527130	52.888	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	524337	52.595	ug/l	99
85) n-Butylbenzene	12.38	91	894361	53.700	ug/l	99
86) Hexachloroethane	12.59	117	180200	53.013	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	529570	52.726	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	78432	51.128	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	380153	56.426	ug/l	99
90) Hexachlorobutadiene	13.78	225	187953	55.960	ug/l	97
91) Naphthalene	13.83	128	1109592	55.148	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	375523	54.961	ug/l	100

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

