

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017303.D
 Acq On : 09 Jul 2020 13:21
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 ICSVX070920

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:41 PM

Quant Time: Jul 10 06:42:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	61808	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	318558	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	298714	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	130356	29.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.80%
60) 4-Bromofluorobenzene	11.12	95	149377	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	8.70	98	386661	30.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	61279	22.680	ug/l 100
3) Chloromethane	1.31	50	66120	22.971	ug/l 99
4) Vinyl Chloride	1.39	62	66661	22.475	ug/l 98
5) Bromomethane	1.64	94	46650	23.598	ug/l 98
6) Chloroethane	1.71	64	42149	21.492	ug/l 100
7) Trichlorofluoromethane	1.92	101	119462	22.674	ug/l 99
8) Diethyl Ether	2.17	74	40826	21.842	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	62959	21.854	ug/l 100
10) 1,1-Dichloroethene	2.35	96	59205	20.845	ug/l 97
11) Methyl Iodide	2.49	142	65697	19.644	ug/l 95
12) Methyl Acetate	2.75	43	82447	20.833	ug/l 98
13) Acrolein	2.27	56	50185	98.059	ug/l 99
14) Acrylonitrile	3.11	53	183667	102.859	ug/l 99
15) Acetone	2.42	58	44426	98.652	ug/l 95
16) Carbon Disulfide	2.55	76	173477	22.518	ug/l 98
17) Allyl chloride	2.71	41	113087	21.402	ug/l 97
18) Methylene Chloride	2.84	84	73984	21.149	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	71208	21.443	ug/l 91
20) Diisopropyl ether	3.82	45	229676	21.741	ug/l 92
21) 1,1-Dichloroethane	3.67	63	126830	21.419	ug/l 97
22) cis-1,2-Dichloroethene	4.56	96	80690	21.298	ug/l 97
23) tert-Butyl Alcohol	3.01	59	73093	99.202	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	230965	21.300	ug/l 99
25) Chloroform	5.17	83	135168	21.424	ug/l 95
26) Cyclohexane	5.54	56	105073	22.777	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	97991	22.307	ug/l 98
30) 2-Butanone	4.63	43	248778	103.536	ug/l 99
31) 2,2-Dichloropropane	4.54	77	121837	22.138	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	125781	21.992	ug/l 98
33) Carbon Tetrachloride	5.75	117	114283	21.669	ug/l 95
34) Benzene	6.11	78	282441	21.608	ug/l 98
35) Methacrylonitrile	5.00	41	56213	20.895	ug/l 93
36) 1,2-Dichloroethane	6.16	62	109914	21.351	ug/l 99
37) Trichloroethene	7.18	130	85120	21.651	ug/l 99
38) Methylcyclohexane	7.44	83	107972	23.324	ug/l 98
39) 1,2-Dichloropropane	7.49	63	73714	21.582	ug/l 96
40) Dibromomethane	7.63	93	51457	20.912	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	109318	21.288	ug/l	97
42) Vinyl Acetate	3.78	43	984702	107.237	ug/l	99
43) Ethyl Acetate	4.79	43	98136	20.764	ug/l	99
44) Isopropyl Acetate	6.41	43	163499	20.792	ug/l	99
45) 1,4-Dioxane	7.71	88	29679	395.949	ug/l	94
46) Methyl methacrylate	7.74	41	76545	19.982	ug/l	98
47) n-amyl Acetate	10.88	43	139008	19.964	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	117812	20.781	ug/l	99
49) cis-1,3-Dichloropropene	8.41	75	127029	21.413	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	74980	20.569	ug/l	99
51) Ethyl methacrylate	9.16	69	109216	20.564	ug/l	96
52) 1,3-Dichloropropane	9.35	76	125183	21.082	ug/l	99
53) Dibromochloromethane	9.56	129	90775	20.400	ug/l	97
54) 1,2-Dibromoethane	9.65	107	79402	20.371	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	249932	99.367	ug/l	99
56) Bromoform	10.84	173	68816	19.825	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	502236	106.110	ug/l	100
59) 2-Hexanone	9.47	43	377990	104.760	ug/l	99
61) Tetrachloroethene	9.32	164	85934	22.583	ug/l	98
62) Toluene	8.76	91	308459	21.813	ug/l	98
64) Chlorobenzene	10.12	112	203529	21.572	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	81609	21.170	ug/l	98
66) Ethyl Benzene	10.23	91	348104	21.874	ug/l	99
67) m/p-Xylenes	10.34	106	269985	43.915	ug/l	98
68) o-Xylene	10.68	106	125118	21.416	ug/l	98
69) Styrene	10.69	104	217207	20.964	ug/l	99
70) Isopropylbenzene	11.00	105	349490	21.808	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	106944	21.278	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	105830m	21.436	ug/l	
73) Bromobenzene	11.24	156	96592	21.453	ug/l	98
74) n-propylbenzene	11.34	91	403760	21.748	ug/l	98
75) 2-Chlorotoluene	11.40	91	245170	21.663	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	299369	21.774	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	39307	20.880	ug/l	93
78) 4-Chlorotoluene	11.49	91	288089	21.472	ug/l	100
79) tert-butylbenzene	11.76	119	290740	21.792	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	302487	21.807	ug/l	100
81) sec-Butylbenzene	11.93	105	338394	22.005	ug/l	100
82) p-Isopropyltoluene	12.05	119	322949	22.209	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	174440	21.528	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	177590	21.660	ug/l	97
85) n-Butylbenzene	12.37	91	273182	22.234	ug/l	99
86) Hexachloroethane	12.58	117	60426	21.480	ug/l	99
87) 1,2-Dichlorobenzene	12.37	146	164965	21.290	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.98	75	24589	20.193	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	113659	21.628	ug/l	96
90) Hexachlorobutadiene	13.77	225	47540	22.551	ug/l	98
91) Naphthalene	13.82	128	336466	20.883	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	110010	21.047	ug/l	98

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

