

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017299.D
 Acq On : 09 Jul 2020 10:52
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:33 PM

Quant Time: Jul 09 11:46:38 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	52143	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	270918	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	254730	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	112687	28.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.07%
60) 4-Bromofluorobenzene	11.12	95	129652	30.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.87%
63) Toluene-d8	8.70	98	333230	29.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	43570	17.197	ug/l 100
3) Chloromethane	1.31	50	45663	14.201	ug/l 100
4) Vinyl Chloride	1.39	62	45706	13.914	ug/l 100
5) Bromomethane	1.64	94	34125	14.573	ug/l 100
6) Chloroethane	1.72	64	31281	14.635	ug/l 100
7) Trichlorofluoromethane	1.92	101	86765	15.821	ug/l 100
8) Diethyl Ether	2.17	74	29651	15.026	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	46578	15.973	ug/l 100
10) 1,1-Dichloroethene	2.36	96	44097	15.472	ug/l 100
11) Methyl Iodide	2.50	142	45170	11.978	ug/l 100
12) Methyl Acetate	2.75	43	63238	17.215	ug/l 100
13) Acrolein	2.28	56	42605	74.969	ug/l 100
14) Acrylonitrile	3.12	53	141695	82.558	ug/l 100
15) Acetone	2.42	58	34178	77.583	ug/l 100
16) Carbon Disulfide	2.55	76	127341	14.371	ug/l 100
17) Allyl chloride	2.71	41	80970	15.301	ug/l 100
18) Methylene Chloride	2.84	84	54897	15.890	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	54432	16.592	ug/l 100
20) Diisopropyl ether	3.82	45	169749	15.837	ug/l 100
21) 1,1-Dichloroethane	3.67	63	94091	15.938	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	59362	16.337	ug/l 100
23) tert-Butyl Alcohol	3.01	59	56854	75.821	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	169310	16.455	ug/l 100
25) Chloroform	5.18	83	100215	16.592	ug/l 100
26) Cyclohexane	5.54	56	75532	14.849	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	70871	16.573	ug/l 100
30) 2-Butanone	4.64	43	193170	86.525	ug/l 100
31) 2,2-Dichloropropane	4.56	77	87864	17.749	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	92135	17.611	ug/l 100
33) Carbon Tetrachloride	5.76	117	84870	18.171	ug/l 100
34) Benzene	6.11	78	208488	16.771	ug/l 100
35) Methacrylonitrile	5.00	41	42043	17.076	ug/l 100
36) 1,2-Dichloroethane	6.16	62	82160	17.151	ug/l 100
37) Trichloroethene	7.19	130	62846	18.230	ug/l 100
38) Methylcyclohexane	7.45	83	74911	15.501	ug/l 100
39) 1,2-Dichloropropane	7.49	63	53852	16.594	ug/l 100
40) Dibromomethane	7.64	93	38458	17.131	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	80516	17.312	ug/l	100
42) Vinyl Acetate	3.79	43	725651	81.320	ug/l	100
43) Ethyl Acetate	4.79	43	76472	16.631	ug/l	100
44) Isopropyl Acetate	6.42	43	122305	16.154	ug/l	100
45) 1,4-Dioxane	7.71	88	22430	300.368	ug/l	100
46) Methyl methacrylate	7.74	41	59627	16.893	ug/l	100
47) n-amyl Acetate	10.88	43	102184	15.282	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	85119	16.517	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	92721	17.150	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	57019	17.951	ug/l	100
51) Ethyl methacrylate	9.16	69	79282	16.522	ug/l	100
52) 1,3-Dichloropropane	9.35	76	93731	17.474	ug/l	100
53) Dibromochloromethane	9.56	129	68144	18.491	ug/l	100
54) 1,2-Dibromoethane	9.65	107	60212	17.871	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	213488	84.453	ug/l	100
56) Bromoform	10.84	173	51016	19.198	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	388011	85.241	ug/l	100
59) 2-Hexanone	9.47	43	292215	85.838	ug/l	100
61) Tetrachloroethene	9.32	164	63114	19.354	ug/l	100
62) Toluene	8.76	91	230193	17.011	ug/l	100
64) Chlorobenzene	10.12	112	149106	17.409	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	59980	18.441	ug/l	100
66) Ethyl Benzene	10.23	91	251342	16.738	ug/l	100
67) m/p-Xylenes	10.34	106	196668	34.443	ug/l	100
68) o-Xylene	10.68	106	90043	16.580	ug/l	100
69) Styrene	10.70	104	159750	16.976	ug/l	100
70) Isopropylbenzene	11.00	105	254356	17.085	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	80272	17.495	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	80724m	18.302	ug/l	100
73) Bromobenzene	11.24	156	71156	18.675	ug/l	100
74) n-propylbenzene	11.34	91	289751	16.497	ug/l	100
75) 2-Chlorotoluene	11.40	91	179465	17.311	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	217266	17.323	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	29197	16.453	ug/l	100
78) 4-Chlorotoluene	11.49	91	211089	17.230	ug/l	100
79) tert-butylbenzene	11.76	119	206804	17.243	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	219443	17.439	ug/l	100
81) sec-Butylbenzene	11.93	105	240162	16.634	ug/l	100
82) p-Isopropyltoluene	12.05	119	226984	17.284	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	126989	18.551	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	127073	18.482	ug/l	100
85) n-Butylbenzene	12.37	91	190264	15.880	ug/l	100
86) Hexachloroethane	12.58	117	43246	16.929	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	121172	18.866	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	19260	18.333	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	79115	18.218	ug/l	100
90) Hexachlorobutadiene	13.77	225	33164	19.694	ug/l	100
91) Naphthalene	13.82	128	244343	17.468	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	81178	19.048	ug/l	100

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

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