

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017322.D
 Acq On : 09 Jul 2020 20:44
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:37:11 PM

Quant Time: Jul 10 06:56:00 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	50326	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	246146	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	240939	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	110448	30.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.80%
60) 4-Bromofluorobenzene	11.12	95	122262	29.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.13%
63) Toluene-d8	8.70	98	307835	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	30162	13.710	ug/l 98
3) Chloromethane	1.31	50	43306	18.478	ug/l 96
4) Vinyl Chloride	1.39	62	40359	16.712	ug/l 99
5) Bromomethane	1.64	94	34853	21.653	ug/l 94
6) Chloroethane	1.72	64	29114	18.232	ug/l 94
7) Trichlorofluoromethane	1.92	101	65466	15.261	ug/l 96
8) Diethyl Ether	2.17	74	29236	19.210	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	34100	14.537	ug/l 97
10) 1,1-Dichloroethene	2.36	96	40755	17.623	ug/l 94
11) Methyl Iodide	2.49	142	44366	16.292	ug/l 95
12) Methyl Acetate	2.75	43	68294	21.194	ug/l 99
13) Acrolein	2.28	56	36930	88.623	ug/l 97
14) Acrylonitrile	3.12	53	149641	102.923	ug/l 98
15) Acetone	2.42	58	39434	107.545	ug/l 98
16) Carbon Disulfide	2.55	76	108600	17.313	ug/l 100
17) Allyl chloride	2.71	41	76901	17.874	ug/l 95
18) Methylene Chloride	2.84	84	57334	20.128	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	49103	18.160	ug/l 92
20) Diisopropyl ether	3.82	45	168923	19.638	ug/l 97
21) 1,1-Dichloroethane	3.67	63	92401	19.165	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	58957	19.112	ug/l 99
23) tert-Butyl Alcohol	3.01	59	61976	103.305	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	172215	19.505	ug/l 99
25) Chloroform	5.18	83	97693	19.017	ug/l 96
26) Cyclohexane	5.54	56	53214	14.167	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	61555	18.135	ug/l 98
30) 2-Butanone	4.64	43	205252	110.551	ug/l 98
31) 2,2-Dichloropropane	4.55	77	70669	16.618	ug/l 98
32) 1,1,1-Trichloroethane	5.46	97	83045	18.792	ug/l 98
33) Carbon Tetrachloride	5.76	117	70261	17.241	ug/l 97
34) Benzene	6.11	78	201617	19.962	ug/l 98
35) Methacrylonitrile	5.01	41	42981	20.677	ug/l 92
36) 1,2-Dichloroethane	6.16	62	82993	20.865	ug/l 100
37) Trichloroethene	7.19	130	58915	19.394	ug/l 99
38) Methylcyclohexane	7.44	83	49022	13.705	ug/l 99
39) 1,2-Dichloropropane	7.49	63	51879	19.657	ug/l 96
40) Dibromomethane	7.64	93	39162	20.598	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	81054	20.427	ug/l	96
42) Vinyl Acetate	3.79	43	740490	104.365	ug/l	100
43) Ethyl Acetate	4.79	43	78000	21.358	ug/l	99
44) Isopropyl Acetate	6.42	43	126850	20.877	ug/l	99
45) 1,4-Dioxane	7.71	88	24577	424.340	ug/l	98
46) Methyl methacrylate	7.75	41	61534	20.789	ug/l	97
47) n-amyl Acetate	10.88	43	107150	19.915	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	85864	19.601	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	91182	19.892	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	57373	20.369	ug/l	98
51) Ethyl methacrylate	9.16	69	80900	19.713	ug/l	97
52) 1,3-Dichloropropane	9.35	76	93480	20.374	ug/l	99
53) Dibromochloromethane	9.57	129	67319	19.579	ug/l	95
54) 1,2-Dibromoethane	9.65	107	62688	20.815	ug/l	97
55) 2-Chloroethyl vinyl ether	8.29	63	238261	118.213	ug/l	99
56) Bromoform	10.84	173	52700	19.648	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	405346	106.175	ug/l	100
59) 2-Hexanone	9.47	43	302660	103.997	ug/l	98
61) Tetrachloroethene	9.32	164	56660	18.460	ug/l	93
62) Toluene	8.77	91	219907	19.280	ug/l	98
64) Chlorobenzene	10.12	112	145636	19.137	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	59531	19.146	ug/l	100
66) Ethyl Benzene	10.23	91	236695	18.440	ug/l	98
67) m/p-Xylenes	10.34	106	183451	36.995	ug/l	99
68) o-Xylene	10.68	106	86906	18.443	ug/l	98
69) Styrene	10.70	104	156169	18.687	ug/l	99
70) Isopropylbenzene	11.00	105	229266	17.736	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	83071	20.492	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	81940m	20.577	ug/l	
73) Bromobenzene	11.24	156	70995	19.549	ug/l	97
74) n-propylbenzene	11.34	91	257307	17.183	ug/l	100
75) 2-Chlorotoluene	11.40	91	170058	18.629	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	198096	17.863	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	28054	18.476	ug/l	92
78) 4-Chlorotoluene	11.49	91	200439	18.522	ug/l	99
79) tert-butylbenzene	11.76	119	187970	17.467	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	206299	18.439	ug/l	99
81) sec-Butylbenzene	11.93	105	203077	16.372	ug/l	99
82) p-Isopropyltoluene	12.05	119	196146	16.723	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	123711	18.928	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	125668	19.002	ug/l	97
85) n-Butylbenzene	12.37	91	162291	16.376	ug/l	99
86) Hexachloroethane	12.58	117	39324	17.331	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	119121	19.060	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	19952	20.314	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	79204	18.685	ug/l	98
90) Hexachlorobutadiene	13.76	225	27325	16.070	ug/l	96
91) Naphthalene	13.82	128	260860	20.073	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	80385	19.067	ug/l	98

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

