

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070820\
 Data File : VX017295.D
 Acq On : 09 Jul 2020 06:36
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 11:00:10 AM

Quant Time: Jul 09 07:15:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	48368	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	251171	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	243527	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	105052	27.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.00%
60) 4-Bromofluorobenzene	11.12	95	123659	30.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.50%
63) Toluene-d8	8.70	98	309902	28.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	45030	19.145	ug/l 97
3) Chloromethane	1.32	50	47323	14.837	ug/l 99
4) Vinyl Chloride	1.39	62	47913	14.730	ug/l 95
5) Bromomethane	1.64	94	35630	15.213	ug/l 100
6) Chloroethane	1.71	64	30723	14.645	ug/l 96
7) Trichlorofluoromethane	1.92	101	86696	16.389	ug/l 99
8) Diethyl Ether	2.17	74	28164	14.632	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	46784	16.664	ug/l 92
10) 1,1-Dichloroethene	2.36	96	46421	16.765	ug/l 83
11) Methyl Iodide	2.50	142	44005	11.902	ug/l 99
12) Methyl Acetate	2.75	43	62291	17.834	ug/l 96
13) Acrolein	2.28	56	46227	83.877	ug/l 99
14) Acrylonitrile	3.12	53	137903	83.362	ug/l 99
15) Acetone	2.42	58	37758	88.198	ug/l 96
16) Carbon Disulfide	2.55	76	127642	14.664	ug/l 97
17) Allyl chloride	2.71	41	78503	15.145	ug/l 99
18) Methylene Chloride	2.84	84	54495	16.340	ug/l 94
19) trans-1,2-Dichloroethene	3.15	96	51616	16.452	ug/l 92
20) Diisopropyl ether	3.83	45	165810	16.006	ug/l # 87
21) 1,1-Dichloroethane	3.67	63	94111	16.476	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	58128	16.641	ug/l 90
23) tert-Butyl Alcohol	3.01	59	57493	78.458	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	165267	16.716	ug/l 99
25) Chloroform	5.18	83	98714	17.045	ug/l 96
26) Cyclohexane	5.55	56	72723	14.595	ug/l # 94
29) 1,1-Dichloropropene	5.78	75	69240	16.922	ug/l 97
30) 2-Butanone	4.64	43	187456	87.894	ug/l 98
31) 2,2-Dichloropropane	4.55	77	54859	11.691	ug/l 98
32) 1,1,1-Trichloroethane	5.46	97	92579	18.699	ug/l 96
33) Carbon Tetrachloride	5.76	117	83447	19.005	ug/l 98
34) Benzene	6.12	78	208338	17.487	ug/l 97
35) Methacrylonitrile	5.01	41	41294	17.544	ug/l 94
36) 1,2-Dichloroethane	6.17	62	81356	17.830	ug/l 99
37) Trichloroethene	7.19	130	60381	18.573	ug/l 89
38) Methylcyclohexane	7.44	83	69956	15.013	ug/l 97
39) 1,2-Dichloropropane	7.49	63	53169	17.130	ug/l 100
40) Dibromomethane	7.63	93	38902	18.185	ug/l 91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	79721	17.997	ug/l #	92
42) Vinyl Acetate	3.79	43	708807	82.472	ug/l	99
43) Ethyl Acetate	4.80	43	75295	17.044	ug/l	97
44) Isopropyl Acetate	6.42	43	120531	16.552	ug/l	97
45) 1,4-Dioxane	7.71	88	23544	320.492	ug/l	98
46) Methyl methacrylate	7.74	41	58763	17.438	ug/l	94
47) n-amyl Acetate	10.88	43	104146	16.181	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	79711	16.274	ug/l	97
49) cis-1,3-Dichloropropene	8.41	75	83987	16.316	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	55900	18.724	ug/l	94
51) Ethyl methacrylate	9.16	69	78416	17.115	ug/l	97
52) 1,3-Dichloropropane	9.35	76	94461	18.429	ug/l	99
53) Dibromochloromethane	9.57	129	67279	19.606	ug/l	99
54) 1,2-Dibromoethane	9.65	107	60816	19.197	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	219587	91.073	ug/l	98
56) Bromoform	10.84	173	52472	21.541	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	382609	85.293	ug/l	97
59) 2-Hexanone	9.47	43	282738	84.454	ug/l	97
61) Tetrachloroethene	9.32	164	60848	19.592	ug/l	96
62) Toluene	8.77	91	224745	16.873	ug/l	98
64) Chlorobenzene	10.12	112	149588	17.926	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	60753	19.339	ug/l	97
66) Ethyl Benzene	10.23	91	245743	16.637	ug/l	98
67) m/p-Xylenes	10.34	106	191529	34.373	ug/l	98
68) o-Xylene	10.68	106	89028	16.633	ug/l	99
69) Styrene	10.70	104	159855	17.442	ug/l	98
70) Isopropylbenzene	11.00	105	248113	17.091	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	79288	17.784	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	77828m	18.177	ug/l	
73) Bromobenzene	11.24	156	67950	18.546	ug/l	95
74) n-propylbenzene	11.34	91	280287	16.261	ug/l	98
75) 2-Chlorotoluene	11.40	91	175648	17.475	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	212579	17.445	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	23907	13.778	ug/l	95
78) 4-Chlorotoluene	11.49	91	208947	17.557	ug/l	100
79) tert-butylbenzene	11.76	119	204032	17.478	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	216772	17.719	ug/l	99
81) sec-Butylbenzene	11.93	105	231716	16.395	ug/l	99
82) p-Isopropyltoluene	12.05	119	215330	16.874	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	124732	18.997	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	123539	18.727	ug/l	97
85) n-Butylbenzene	12.37	91	178571	15.118	ug/l	99
86) Hexachloroethane	12.58	117	43487	17.413	ug/l	87
87) 1,2-Dichlorobenzene	12.38	146	119010	19.365	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	18764	18.498	ug/l	90
89) 1,2,4-Trichlorobenzene	13.63	180	78335	18.893	ug/l	99
90) Hexachlorobutadiene	13.76	225	32688	20.725	ug/l	100
91) Naphthalene	13.82	128	240019	17.661	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	79370	19.616	ug/l	97

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

