

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090420\
 Data File : VX018261.D
 Acq On : 04 Sep 2020 15:36
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 5:17:29 PM

Quant Time: Sep 05 07:01:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	82060	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	419132	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	404847	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	191171	29.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.43%
60) 4-Bromofluorobenzene	11.12	95	206272	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	8.70	98	537662	30.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	84602	19.484	ug/l 97
3) Chloromethane	1.31	50	90185	19.553	ug/l 98
4) Vinyl Chloride	1.39	62	94600	19.478	ug/l 100
5) Bromomethane	1.64	94	50295	15.221	ug/l 94
6) Chloroethane	1.71	64	58652	19.869	ug/l 100
7) Trichlorofluoromethane	1.92	101	159968	19.436	ug/l 97
8) Diethyl Ether	2.17	74	51304	19.772	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	80825	19.220	ug/l 100
10) 1,1-Dichloroethene	2.36	96	82323	19.943	ug/l 97
11) Methyl Iodide	2.50	142	45750	14.873	ug/l 89
12) Methyl Acetate	2.75	43	113341	20.858	ug/l 100
13) Acrolein	2.28	56	35526	81.011	ug/l 99
14) Acrylonitrile	3.12	53	252898	102.714	ug/l 99
15) Acetone	2.42	58	70983	106.035	ug/l 87
16) Carbon Disulfide	2.55	76	233252	19.406	ug/l 97
17) Allyl chloride	2.71	41	144349	19.564	ug/l 99
18) Methylene Chloride	2.84	84	91793	18.947	ug/l 92
19) trans-1,2-Dichloroethene	3.15	96	88302	19.267	ug/l 98
20) Diisopropyl ether	3.83	45	290932	19.918	ug/l 98
21) 1,1-Dichloroethane	3.67	63	165798	19.776	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	100489	19.817	ug/l 98
23) tert-Butyl Alcohol	3.01	59	110247	103.328	ug/l # 99
24) Methyl tert-Butyl Ether	3.17	73	290149	19.771	ug/l 99
25) Chloroform	5.18	83	174882	19.545	ug/l 98
26) Cyclohexane	5.55	56	130107	19.226	ug/l # 48
29) 1,1-Dichloropropene	5.77	75	121655	19.015	ug/l 99
30) 2-Butanone	4.64	43	359768	102.698	ug/l 100
31) 2,2-Dichloropropane	4.55	77	141983	18.372	ug/l 98
32) 1,1,1-Trichloroethane	5.46	97	167779	20.035	ug/l 99
33) Carbon Tetrachloride	5.76	117	151002	19.351	ug/l 96
34) Benzene	6.12	78	358757	19.644	ug/l 97
35) Methacrylonitrile	5.01	41	77203	20.912	ug/l 94
36) 1,2-Dichloroethane	6.17	62	149928	19.836	ug/l # 100
37) Trichloroethene	7.19	130	103628	19.623	ug/l 98
38) Methylcyclohexane	7.44	83	129952	19.069	ug/l 97
39) 1,2-Dichloropropane	7.49	63	96293	19.686	ug/l 97
40) Dibromomethane	7.64	93	70873	20.064	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	142416	19.453	ug/l	96
42) Vinyl Acetate	3.79	43	1314216	100.553	ug/l	100
43) Ethyl Acetate	4.79	43	141620	20.330	ug/l	99
44) Isopropyl Acetate	6.42	43	221450	19.727	ug/l	96
45) 1,4-Dioxane	7.71	88	34992	373.110	ug/l #	88
46) Methyl methacrylate	7.74	41	108516	19.641	ug/l	93
47) n-amyl Acetate	10.88	43	192954	19.561	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	155352	19.755	ug/l	97
49) cis-1,3-Dichloropropene	8.41	75	160914	19.478	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	98876	20.088	ug/l	99
51) Ethyl methacrylate	9.16	69	135652	19.025	ug/l	97
52) 1,3-Dichloropropane	9.35	76	158880	19.447	ug/l	96
53) Dibromochloromethane	9.57	129	116727	19.073	ug/l	98
54) 1,2-Dibromoethane	9.65	107	108043	20.010	ug/l	95
55) 2-Chloroethyl vinyl ether	8.29	63	376719	101.177	ug/l	99
56) Bromoform	10.84	173	88690	19.073	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	711417	102.167	ug/l	100
59) 2-Hexanone	9.48	43	534358	101.314	ug/l	100
61) Tetrachloroethene	9.32	164	99266	19.660	ug/l	92
62) Toluene	8.77	91	400510	19.657	ug/l	99
64) Chlorobenzene	10.12	112	254122	19.409	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	105808	19.954	ug/l	96
66) Ethyl Benzene	10.24	91	442961	19.676	ug/l	98
67) m/p-Xylenes	10.34	106	339548	39.439	ug/l	97
68) o-Xylene	10.68	106	157174	19.321	ug/l	98
69) Styrene	10.70	104	276557	19.485	ug/l	98
70) Isopropylbenzene	11.00	105	437136	19.323	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	147749	19.985	ug/l	96
72) 1,2,3-Trichloropropane	11.28	75	139925m	19.699	ug/l	
73) Bromobenzene	11.24	156	117951	19.031	ug/l	97
74) n-propylbenzene	11.34	91	504970	18.957	ug/l	99
75) 2-Chlorotoluene	11.40	91	310049	19.204	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	384397	19.504	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	48523	17.579	ug/l	91
78) 4-Chlorotoluene	11.49	91	366698	19.040	ug/l	100
79) tert-butylbenzene	11.76	119	371026	19.543	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	379171	19.452	ug/l	100
81) sec-Butylbenzene	11.93	105	410479	18.510	ug/l	99
82) p-Isopropyltoluene	12.05	119	387487	18.741	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	215294	19.428	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	214010	19.314	ug/l	100
85) n-Butylbenzene	12.37	91	336187	18.468	ug/l	99
86) Hexachloroethane	12.58	117	75222	18.478	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	204977	19.754	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	37602	19.882	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	130924	18.649	ug/l	98
90) Hexachlorobutadiene	13.76	225	52632	17.724	ug/l	87
91) Naphthalene	13.82	128	420000	19.170	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	134574	19.377	ug/l	99

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

