

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO041020\
 Data File : VX015640.D
 Acq On : 10 Apr 2020 22:21
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
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 4/13/2020 1:24:37 PM

Quant Time: Apr 11 03:27:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	190761	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1061623	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	959509	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	448902	30.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.37%
60) 4-Bromofluorobenzene	11.12	95	498107	30.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.10%
63) Toluene-d8	8.70	98	1224230	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	149921	16.457	ug/l 99
3) Chloromethane	1.31	50	203838	18.130	ug/l 98
4) Vinyl Chloride	1.39	62	212868	19.681	ug/l 99
5) Bromomethane	1.63	94	157245	27.310	ug/l 100
6) Chloroethane	1.72	64	139857	20.726	ug/l 95
7) Trichlorofluoromethane	1.92	101	300466	19.439	ug/l 97
8) Diethyl Ether	2.17	74	128441	21.598	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	189203	18.502	ug/l 98
10) 1,1-Dichloroethene	2.36	96	196167	18.886	ug/l 97
11) Methyl Iodide	2.49	142	193708	14.033	ug/l 96
12) Methyl Acetate	2.75	43	317368	20.881	ug/l 98
13) Acrolein	2.27	56	227845	115.234	ug/l 94
14) Acrylonitrile	3.11	53	659209	101.308	ug/l 98
15) Acetone	2.42	58	167943	101.501	ug/l 81
16) Carbon Disulfide	2.55	76	547802	18.041	ug/l 100
17) Allyl chloride	2.71	41	425323	18.136	ug/l 98
18) Methylene Chloride	2.84	84	232337	19.923	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	220147	19.593	ug/l 98
20) Diisopropyl ether	3.83	45	826123	19.641	ug/l 99
21) 1,1-Dichloroethane	3.67	63	417165	19.430	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	254084	19.629	ug/l 97
23) tert-Butyl Alcohol	3.01	59	292365	91.346	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	759500	19.694	ug/l 99
25) Chloroform	5.19	83	419375	19.761	ug/l 96
26) Cyclohexane	5.55	56	373055	18.186	ug/l 100
29) 1,1-Dichloropropene	5.77	75	311336	19.520	ug/l 99
30) 2-Butanone	4.64	43	963771	100.798	ug/l 100
31) 2,2-Dichloropropane	4.56	77	306877	15.988	ug/l 100
32) 1,1,1-Trichloroethane	5.47	97	379297	19.491	ug/l 99
33) Carbon Tetrachloride	5.76	117	334917	18.886	ug/l 96
34) Benzene	6.12	78	914672	19.897	ug/l 99
35) Methacrylonitrile	5.00	41	214502	19.783	ug/l 98
36) 1,2-Dichloroethane	6.17	62	373151	21.007	ug/l 98
37) Trichloroethene	7.19	130	257649	19.905	ug/l 98
38) Methylcyclohexane	7.44	83	355503	18.182	ug/l 100
39) 1,2-Dichloropropane	7.50	63	237262	19.216	ug/l 93
40) Dibromomethane	7.64	93	161176	19.611	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	338489	18.951	ug/l	99
42) Vinyl Acetate	3.79	43	3689427	101.839	ug/l	100
43) Ethyl Acetate	4.79	43	383473	18.438	ug/l	98
44) Isopropyl Acetate	6.42	43	650068	19.422	ug/l	99
45) 1,4-Dioxane	7.72	88	113341	367.576	ug/l	99
46) Methyl methacrylate	7.75	41	322583	19.313	ug/l	98
47) n-amyl Acetate	10.88	43	548371	19.001	ug/l	97
48) t-1,3-Dichloropropene	9.03	75	369116	17.902	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	392738	18.453	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	237496	20.136	ug/l	97
51) Ethyl methacrylate	9.16	69	392068	19.328	ug/l	99
52) 1,3-Dichloropropane	9.36	76	409222	20.088	ug/l	99
53) Dibromochloromethane	9.57	129	273074	18.782	ug/l	97
54) 1,2-Dibromoethane	9.65	107	255233	20.168	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	959753	100.178	ug/l	100
56) Bromoform	10.84	173	209942	17.562	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	1919040	104.501	ug/l	100
59) 2-Hexanone	9.47	43	1447546	103.615	ug/l	99
61) Tetrachloroethene	9.32	164	240183	19.475	ug/l	99
62) Toluene	8.77	91	976631	20.095	ug/l	99
64) Chlorobenzene	10.12	112	639384	20.462	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	246079	19.272	ug/l	97
66) Ethyl Benzene	10.24	91	1140556	20.543	ug/l	96
67) m/p-Xylenes	10.34	106	845281	40.225	ug/l	99
68) o-Xylene	10.68	106	412051	20.061	ug/l	98
69) Styrene	10.70	104	728823	20.366	ug/l	98
70) Isopropylbenzene	11.01	105	1108695	20.361	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	359772	20.385	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	333119m	20.172	ug/l	
73) Bromobenzene	11.24	156	295106	20.190	ug/l	96
74) n-propylbenzene	11.34	91	1246206	19.953	ug/l	100
75) 2-Chlorotoluene	11.41	91	771672	20.315	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	932313	19.938	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	112529	15.813	ug/l	91
78) 4-Chlorotoluene	11.50	91	894372	20.352	ug/l	99
79) tert-butylbenzene	11.76	119	937007	20.049	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	951927	20.096	ug/l	99
81) sec-Butylbenzene	11.93	105	1063979	19.846	ug/l	100
82) p-Isopropyltoluene	12.05	119	992695	19.646	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	525322	19.987	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	536955	20.472	ug/l	99
85) n-Butylbenzene	12.37	91	863839	19.180	ug/l	99
86) Hexachloroethane	12.58	117	169361	17.342	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	514899	20.080	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	87324	18.785	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	400201	19.374	ug/l	99
90) Hexachlorobutadiene	13.77	225	178977	16.448	ug/l	95
91) Naphthalene	13.82	128	1209384	20.219	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	392655	19.135	ug/l	97

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

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