

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\
 Data File : VX015242.D
 Acq On : 12 Mar 2020 18:45
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:57 AM

Quant Time: Mar 13 04:36:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	46121	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	249887	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	232144	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	92158	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	11.13	95	109122	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	8.71	98	324565	32.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	44207	19.059 ug/l	97
3) Chloromethane	1.32	50	65765	19.638 ug/l	99
4) Vinyl Chloride	1.40	62	67436	19.789 ug/l	99
5) Bromomethane	1.64	94	45215	20.366 ug/l	95
6) Chloroethane	1.72	64	43680	20.407 ug/l	100
7) Trichlorofluoromethane	1.93	101	85549	19.691 ug/l	95
8) Diethyl Ether	2.18	74	38598	20.045 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	46756	17.549 ug/l	99
10) 1,1-Dichloroethene	2.37	96	48996	18.240 ug/l	96
11) Methyl Iodide	2.50	142	45576	16.496 ug/l	97
12) Methyl Acetate	2.76	43	64376	19.428 ug/l	99
13) Acrolein	2.28	56	43876	83.848 ug/l	99
14) Acrylonitrile	3.13	53	147794	96.119 ug/l	99
15) Acetone	2.44	58	37235	82.531 ug/l	88
16) Carbon Disulfide	2.56	76	136241	18.112 ug/l	100
17) Allyl chloride	2.72	41	90722	18.205 ug/l	96
18) Methylene Chloride	2.85	84	56949	18.760 ug/l	99
19) trans-1,2-Dichloroethene	3.16	96	54143	18.687 ug/l	96
20) Diisopropyl ether	3.84	45	186639	18.854 ug/l	97
21) 1,1-Dichloroethane	3.69	63	97659	18.619 ug/l	98
22) cis-1,2-Dichloroethene	4.59	96	60888	18.591 ug/l	95
23) tert-Butyl Alcohol	3.03	59	58703	97.649 ug/l	# 100
24) Methyl tert-Butyl Ether	3.18	73	163236	18.808 ug/l	100
25) Chloroform	5.20	83	94981	19.036 ug/l	99
26) Cyclohexane	5.57	56	89823	18.427 ug/l	# 100
29) 1,1-Dichloropropene	5.79	75	74628	19.462 ug/l	99
30) 2-Butanone	4.66	43	197771	96.307 ug/l	99
31) 2,2-Dichloropropane	4.57	77	71397	18.124 ug/l	100
32) 1,1,1-Trichloroethane	5.49	97	80511m	19.294 ug/l	
33) Carbon Tetrachloride	5.78	117	67906	19.016 ug/l	95
34) Benzene	6.14	78	224505	19.321 ug/l	98
35) Methacrylonitrile	5.03	41	43016	19.375 ug/l	96
36) 1,2-Dichloroethane	6.18	62	75467m	19.471 ug/l	
37) Trichloroethene	7.20	130	62958	19.591 ug/l	97
38) Methylcyclohexane	7.46	83	86991	18.671 ug/l	99
39) 1,2-Dichloropropane	7.51	63	57365	19.111 ug/l	92
40) Dibromomethane	7.65	93	37456	19.633 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	73110	19.375	ug/l	94
42) Vinyl Acetate	3.81	43	773797	95.552	ug/l	100
43) Ethyl Acetate	4.82	43	78037	20.029	ug/l	100
44) Isopropyl Acetate	6.43	43	126488	19.193	ug/l	98
45) 1,4-Dioxane	7.74	88	27043	417.803	ug/l	98
46) Methyl methacrylate	7.76	41	64001	19.695	ug/l	98
47) n-amyl Acetate	10.89	43	106075	17.938	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	85109	20.743	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	90682	19.462	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	62420	22.127	ug/l	97
51) Ethyl methacrylate	9.17	69	90026	20.452	ug/l	96
52) 1,3-Dichloropropane	9.37	76	104749	21.940	ug/l	99
53) Dibromochloromethane	9.57	129	62783	20.898	ug/l	96
54) 1,2-Dibromoethane	9.67	107	62335	21.421	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	227474	103.183	ug/l	100
56) Bromoform	10.85	173	45574	19.348	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	429009	108.551	ug/l	100
59) 2-Hexanone	9.48	43	319798	107.058	ug/l	99
61) Tetrachloroethene	9.33	164	70179	21.717	ug/l	95
62) Toluene	8.78	91	259433	21.119	ug/l	100
64) Chlorobenzene	10.14	112	152493	19.427	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	57068	19.739	ug/l	98
66) Ethyl Benzene	10.25	91	259893	18.992	ug/l	100
67) m/p-Xylenes	10.35	106	201221	38.306	ug/l	99
68) o-Xylene	10.70	106	97710	19.401	ug/l	97
69) Styrene	10.71	104	167439	19.103	ug/l	100
70) Isopropylbenzene	11.01	105	257985	19.245	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	82596	18.981	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	67196m	18.866	ug/l	
73) Bromobenzene	11.25	156	69356	18.971	ug/l	100
74) n-propylbenzene	11.35	91	297789	18.804	ug/l	99
75) 2-Chlorotoluene	11.42	91	174271	18.848	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	213506	18.658	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	25972	17.411	ug/l	94
78) 4-Chlorotoluene	11.51	91	199636	18.753	ug/l	100
79) tert-butylbenzene	11.76	119	206017	19.203	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	218274	19.293	ug/l	99
81) sec-Butylbenzene	11.94	105	250156	18.788	ug/l	100
82) p-Isopropyltoluene	12.06	119	230010	18.786	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	122366	18.943	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	125006	19.347	ug/l	99
85) n-Butylbenzene	12.39	91	201790	18.806	ug/l	99
86) Hexachloroethane	12.59	117	39601	18.475	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	122259	19.411	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	17167	19.162	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	90059	19.345	ug/l	99
90) Hexachlorobutadiene	13.78	225	43942	18.347	ug/l	98
91) Naphthalene	13.83	128	253062	19.622	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	91389	19.505	ug/l	100

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

