

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016003.D
 Acq On : 01 May 2020 11:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 2:19:49 PM

Quant Time: May 02 07:14:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	62982	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	353004	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	318138	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	143717	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	11.12	95	156985	29.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.10%
63) Toluene-d8	8.70	98	419198	30.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	85280	19.658	ug/l 98
3) Chloromethane	1.32	50	81084	19.077	ug/l 99
4) Vinyl Chloride	1.40	62	90868	18.817	ug/l 97
5) Bromomethane	1.63	94	61864	20.900	ug/l 99
6) Chloroethane	1.71	64	58226	18.392	ug/l 100
7) Trichlorofluoromethane	1.92	101	125112	18.088	ug/l 99
8) Diethyl Ether	2.17	74	49384	17.887	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	67102	18.785	ug/l 99
10) 1,1-Dichloroethene	2.36	96	68857	19.106	ug/l 94
11) Methyl Iodide	2.49	142	89609	18.213	ug/l 98
12) Methyl Acetate	2.75	43	122245	19.428	ug/l 99
13) Acrolein	2.27	56	44276	87.774	ug/l 96
14) Acrylonitrile	3.12	53	217817	93.716	ug/l 100
15) Acetone	2.42	58	55644	90.463	ug/l 98
16) Carbon Disulfide	2.55	76	203664	18.576	ug/l 99
17) Allyl chloride	2.71	41	124285	18.590	ug/l 97
18) Methylene Chloride	2.84	84	75109	18.604	ug/l 96
19) trans-1,2-Dichloroethene	3.14	96	72765	18.460	ug/l 95
20) Diisopropyl ether	3.82	45	238081	18.470	ug/l 95
21) 1,1-Dichloroethane	3.67	63	132987	18.502	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	82008	18.333	ug/l 99
23) tert-Butyl Alcohol	3.01	59	107378	94.379	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	239843	18.532	ug/l 98
25) Chloroform	5.17	83	133046	18.226	ug/l 100
26) Cyclohexane	5.55	56	120976	18.406	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	100342	18.073	ug/l 100
30) 2-Butanone	4.64	43	294565	89.041	ug/l 98
31) 2,2-Dichloropropane	4.55	77	123757	18.522	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	121549	18.048	ug/l 99
33) Carbon Tetrachloride	5.75	117	108500	18.093	ug/l 99
34) Benzene	6.11	78	298470	18.405	ug/l 99
35) Methacrylonitrile	5.00	41	64957	18.489	ug/l 95
36) 1,2-Dichloroethane	6.16	62	111016	17.926	ug/l 100
37) Trichloroethene	7.19	130	109562	18.992	ug/l 99
38) Methylcyclohexane	7.44	83	123072	18.139	ug/l 99
39) 1,2-Dichloropropane	7.49	63	74917	17.997	ug/l 96
40) Dibromomethane	7.64	93	51755	17.905	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	107219	17.993	ug/l	98
42) Vinyl Acetate	3.78	43	988878	90.352	ug/l	100
43) Ethyl Acetate	4.79	43	120014	18.391	ug/l	100
44) Isopropyl Acetate	6.41	43	193884	18.309	ug/l	99
45) 1,4-Dioxane	7.71	88	41177	368.118	ug/l	98
46) Methyl methacrylate	7.74	41	90582	18.043	ug/l	97
47) n-amyl Acetate	10.88	43	162564	17.556	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	124028	17.924	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	128895	18.029	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	72193	17.724	ug/l	98
51) Ethyl methacrylate	9.16	69	120174	17.867	ug/l	96
52) 1,3-Dichloropropane	9.35	76	128478	18.246	ug/l	99
53) Dibromochloromethane	9.57	129	80167	17.299	ug/l	96
54) 1,2-Dibromoethane	9.65	107	79273	17.708	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	323082	88.291	ug/l	100
56) Bromoform	10.84	173	58600	16.783	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	592075	94.373	ug/l	99
59) 2-Hexanone	9.47	43	456441	94.189	ug/l	99
61) Tetrachloroethene	9.32	164	119799	19.037	ug/l	96
62) Toluene	8.76	91	315882	18.585	ug/l	99
64) Chlorobenzene	10.12	112	197633	18.262	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	73137	17.802	ug/l	98
66) Ethyl Benzene	10.24	91	357416	18.467	ug/l	100
67) m/p-Xylenes	10.34	106	270188	36.647	ug/l	99
68) o-Xylene	10.68	106	129591	18.227	ug/l	99
69) Styrene	10.70	104	218296	17.940	ug/l	100
70) Isopropylbenzene	11.00	105	350908	18.281	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	53063	14.870	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	108973m	18.855	ug/l	
73) Bromobenzene	11.24	156	86218	17.824	ug/l	98
74) n-propylbenzene	11.34	91	404981	18.164	ug/l	100
75) 2-Chlorotoluene	11.40	91	239283	18.263	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	295550	18.139	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	45045	18.126	ug/l	97
78) 4-Chlorotoluene	11.49	91	279250	18.006	ug/l	100
79) tert-butylbenzene	11.76	119	251949	18.105	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	295287	18.140	ug/l	99
81) sec-Butylbenzene	11.93	105	342360	18.241	ug/l	99
82) p-Isopropyltoluene	12.05	119	313996	18.053	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	158205	18.141	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	155945	17.996	ug/l	100
85) n-Butylbenzene	12.37	91	281984	17.748	ug/l	99
86) Hexachloroethane	12.58	117	54362	17.754	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	152202	18.045	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	26514	17.756	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	108547	17.472	ug/l	99
90) Hexachlorobutadiene	13.77	225	50685	18.983	ug/l	99
91) Naphthalene	13.82	128	356654	18.032	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	105258	17.636	ug/l	100

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

