

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013148.D
 Acq On : 21 Oct 2019 11:43
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:30:02 PM

Quant Time: Oct 22 01:45:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:38:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	29372	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	165714	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	149182	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	67237	29.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.00%
60) 4-Bromofluorobenzene	11.13	95	76931	29.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.23%
63) Toluene-d8	8.71	98	201928	29.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	43132	21.369	ug/l 96
3) Chloromethane	1.32	50	36646	18.973	ug/l 96
4) Vinyl Chloride	1.40	62	37635	19.287	ug/l 95
5) Bromomethane	1.63	94	24192	26.100	ug/l 100
6) Chloroethane	1.72	64	25106	21.059	ug/l 99
7) Trichlorofluoromethane	1.92	101	63366	21.785	ug/l 99
8) Diethyl Ether	2.18	74	21535	20.599	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	40033	22.055	ug/l 95
10) 1,1-Dichloroethene	2.36	96	36540	20.478	ug/l 96
11) Methyl Iodide	2.50	142	45852	20.695	ug/l 99
12) Methyl Acetate	2.76	43	46870	18.946	ug/l 95
13) Acrolein	2.28	56	21221	58.673	ug/l 95
14) Acrylonitrile	3.12	53	99072	96.064	ug/l 98
15) Acetone	2.43	58	35303	100.340	ug/l 96
16) Carbon Disulfide	2.56	76	93916	19.502	ug/l 99
17) Allyl chloride	2.72	41	57887	19.330	ug/l 96
18) Methylene Chloride	2.85	84	43444	21.417	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	38819	20.389	ug/l 94
20) Diisopropyl ether	3.84	45	115272	20.118	ug/l 95
21) 1,1-Dichloroethane	3.69	63	68755	20.605	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	44148	20.090	ug/l 98
23) tert-Butyl Alcohol	3.02	59	49059	93.396	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	126725	20.888	ug/l 98
25) Chloroform	5.20	83	72805	21.039	ug/l 99
26) Cyclohexane	5.56	56	60858	20.217	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	53687	20.960	ug/l # 87
30) 2-Butanone	4.65	43	143119	97.733	ug/l 97
31) 2,2-Dichloropropane	4.57	77	64171	22.281	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	65927	21.953	ug/l 99
33) Carbon Tetrachloride	5.78	117	56758	22.036	ug/l 94
34) Benzene	6.13	78	157574	20.963	ug/l 97
35) Methacrylonitrile	5.03	41	28394	19.578	ug/l 97
36) 1,2-Dichloroethane	6.18	62	59173	21.548	ug/l 100
37) Trichloroethene	7.20	130	44176	21.796	ug/l 99
38) Methylcyclohexane	7.45	83	66815	21.444	ug/l 100
39) 1,2-Dichloropropane	7.50	63	38964	20.791	ug/l 97
40) Dibromomethane	7.65	93	27951	21.571	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	56486	21.965	ug/l	96
42) Vinyl Acetate	3.80	43	496422	102.100	ug/l	99
43) Ethyl Acetate	4.82	43	52247	19.657	ug/l	100
44) Isopropyl Acetate	6.43	43	85819	19.966	ug/l	99
45) 1,4-Dioxane	7.73	88	22279	414.476	ug/l	95
46) Methyl methacrylate	7.76	41	41362	19.526	ug/l	96
47) n-amyl Acetate	10.89	43	71198	19.438	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	59802	21.040	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	65679	21.026	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	40953	21.067	ug/l	93
51) Ethyl methacrylate	9.17	69	62695	20.535	ug/l	97
52) 1,3-Dichloropropane	9.36	76	69488	21.358	ug/l	98
53) Dibromochloromethane	9.57	129	43244	21.524	ug/l	99
54) 1,2-Dibromoethane	9.67	107	43143	21.118	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	91452	69.624	ug/l	99
56) Bromoform	10.85	173	29727	21.208	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	263608	98.050	ug/l	99
59) 2-Hexanone	9.48	43	204347	97.591	ug/l	99
61) Tetrachloroethene	9.33	164	45001	23.498	ug/l	99
62) Toluene	8.78	91	173864	21.437	ug/l	100
64) Chlorobenzene	10.13	112	107764	20.893	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	41113	21.572	ug/l	99
66) Ethyl Benzene	10.25	91	197831	21.306	ug/l	97
67) m/p-Xylenes	10.35	106	151057	43.158	ug/l	100
68) o-Xylene	10.70	106	70904	21.014	ug/l	97
69) Styrene	10.71	104	121596	20.753	ug/l	98
70) Isopropylbenzene	11.01	105	198612	21.738	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	60175	20.609	ug/l	95
72) 1,2,3-Trichloropropane	11.29	75	49174m	19.447	ug/l	
73) Bromobenzene	11.25	156	46551	21.412	ug/l	100
74) n-propylbenzene	11.35	91	219706	21.689	ug/l	100
75) 2-Chlorotoluene	11.42	91	130019	20.725	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	159772	20.690	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	19326	20.167	ug/l	96
78) 4-Chlorotoluene	11.51	91	147937	20.544	ug/l	99
79) tert-butylbenzene	11.76	119	154876	21.336	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	166063	21.623	ug/l	99
81) sec-Butylbenzene	11.94	105	179774	20.415	ug/l	99
82) p-Isopropyltoluene	12.06	119	172022	21.384	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	82407	20.998	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	82903	20.930	ug/l	98
85) n-Butylbenzene	12.39	91	139657	20.447	ug/l	97
86) Hexachloroethane	12.59	117	28975	20.837	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	80478	20.653	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	13526	19.596	ug/l	92
89) 1,2,4-Trichlorobenzene	13.64	180	50991	21.093	ug/l	98
90) Hexachlorobutadiene	13.77	225	26076	22.431	ug/l	98
91) Naphthalene	13.83	128	158273	19.398	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	50319	20.643	ug/l	99

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

