

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121219\
 Data File : VX014004.D
 Acq On : 13 Dec 2019 05:03
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/13/2019 12:39:58 PM

Quant Time: Dec 13 05:35:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	91394	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	500983	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	453286	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	193288	29.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.43%
60) 4-Bromofluorobenzene	11.14	95	220789	30.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.53%
63) Toluene-d8	8.71	98	623616	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	83323	18.048	ug/l 99
3) Chloromethane	1.32	50	123051	18.911	ug/l 95
4) Vinyl Chloride	1.40	62	129317	19.387	ug/l 100
5) Bromomethane	1.63	94	82309	16.880	ug/l 97
6) Chloroethane	1.70	64	113231	27.482	ug/l 95
7) Trichlorofluoromethane	1.92	101	154517	18.616	ug/l 98
8) Diethyl Ether	2.18	74	75586	19.812	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	89763	18.133	ug/l 99
10) 1,1-Dichloroethene	2.36	96	95987	18.755	ug/l 99
11) Methyl Iodide	2.50	142	130613	19.825	ug/l 98
12) Methyl Acetate	2.76	43	147547	18.623	ug/l 98
13) Acrolein	2.29	56	38865	40.444	ug/l 99
14) Acrylonitrile	3.13	53	296378	95.689	ug/l 100
15) Acetone	2.44	58	82276	90.426	ug/l 96
16) Carbon Disulfide	2.56	76	269178	19.415	ug/l 98
17) Allyl chloride	2.72	41	168314	18.302	ug/l 99
18) Methylene Chloride	2.84	84	125053	19.941	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	106562	19.014	ug/l 96
20) Diisopropyl ether	3.84	45	368034	19.503	ug/l 99
21) 1,1-Dichloroethane	3.69	63	195705	19.109	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	122467	18.850	ug/l 97
23) tert-Butyl Alcohol	3.04	59	117372	96.614	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	334136	19.327	ug/l 99
25) Chloroform	5.20	83	188250	19.280	ug/l 100
26) Cyclohexane	5.57	56	168090	18.406	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	141705	19.582	ug/l 99
30) 2-Butanone	4.66	43	410293	96.191	ug/l 99
31) 2,2-Dichloropropane	4.57	77	109563	16.368	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	156427	19.543	ug/l 99
33) Carbon Tetrachloride	5.78	117	130689	19.207	ug/l 99
34) Benzene	6.14	78	448593	19.881	ug/l 98
35) Methacrylonitrile	5.03	41	91212	19.883	ug/l 92
36) 1,2-Dichloroethane	6.18	62	156626	19.983	ug/l 99
37) Trichloroethene	7.21	130	114175	18.596	ug/l 90
38) Methylcyclohexane	7.46	83	163946	18.993	ug/l 98
39) 1,2-Dichloropropane	7.51	63	114544	19.545	ug/l 93
40) Dibromomethane	7.65	93	76324	20.386	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	144413	19.921	ug/l	98
42) Vinyl Acetate	3.80	43	1542976	102.460	ug/l	99
43) Ethyl Acetate	4.81	43	158106	19.318	ug/l	97
44) Isopropyl Acetate	6.43	43	264687	19.309	ug/l	99
45) 1,4-Dioxane	7.73	88	52597	409.732	ug/l	98
46) Methyl methacrylate	7.76	41	130837	19.650	ug/l	97
47) n-amyl Acetate	10.89	43	232762	19.097	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	145894	18.439	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	164684	18.508	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	113934	19.719	ug/l	98
51) Ethyl methacrylate	9.17	69	173884	18.920	ug/l	97
52) 1,3-Dichloropropane	9.37	76	191198	19.477	ug/l	98
53) Dibromochloromethane	9.57	129	111941	19.375	ug/l	99
54) 1,2-Dibromoethane	9.67	107	118615	19.939	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	381067	94.059	ug/l	99
56) Bromoform	10.85	173	82076	18.217	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	845846	99.732	ug/l	99
59) 2-Hexanone	9.49	43	631379	98.096	ug/l	99
61) Tetrachloroethene	9.33	164	106841	17.817	ug/l	99
62) Toluene	8.78	91	478651	19.854	ug/l	100
64) Chlorobenzene	10.14	112	295995	19.597	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	108705	19.437	ug/l	99
66) Ethyl Benzene	10.25	91	522655	19.810	ug/l	99
67) m/p-Xylenes	10.35	106	393182	38.985	ug/l	98
68) o-Xylene	10.70	106	192203	19.237	ug/l	100
69) Styrene	10.71	104	325842	19.178	ug/l	99
70) Isopropylbenzene	11.01	105	502271	19.454	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	183957	20.091	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	154655m	18.976	ug/l	
73) Bromobenzene	11.25	156	131347	19.057	ug/l	98
74) n-propylbenzene	11.35	91	565255	19.302	ug/l	98
75) 2-Chlorotoluene	11.42	91	345469	19.524	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	419235	19.141	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	45029	16.731	ug/l	95
78) 4-Chlorotoluene	11.51	91	384537	19.018	ug/l	98
79) tert-butylbenzene	11.76	119	422166	19.997	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	417502	19.064	ug/l	99
81) sec-Butylbenzene	11.94	105	478554	19.058	ug/l	99
82) p-Isopropyltoluene	12.06	119	429208	18.941	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	225139	18.741	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	222936	18.636	ug/l	99
85) n-Butylbenzene	12.39	91	340992	17.897	ug/l	99
86) Hexachloroethane	12.59	117	74362	18.089	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	233308	19.120	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	35152	19.261	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	139964	17.947	ug/l	100
90) Hexachlorobutadiene	13.78	225	65238	17.599	ug/l	98
91) Naphthalene	13.83	128	440152	18.778	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	145705	18.420	ug/l	99

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

