

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020320\
 Data File : VX014791.D
 Acq On : 03 Feb 2020 12:28
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 2/4/2020 3:32:12 PM

Quant Time: Feb 03 14:23:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	72406	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	403139	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	366264	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	161359	31.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.70%
60) 4-Bromofluorobenzene	11.13	95	174034	29.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.97%
63) Toluene-d8	8.71	98	503629	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	101879	20.360	ug/l 100
3) Chloromethane	1.32	50	111389	20.332	ug/l 95
4) Vinyl Chloride	1.40	62	123956	20.151	ug/l 98
5) Bromomethane	1.64	94	70624	18.398	ug/l 100
6) Chloroethane	1.72	64	67859	19.569	ug/l 97
7) Trichlorofluoromethane	1.93	101	138114	20.278	ug/l 100
8) Diethyl Ether	2.18	74	60967	20.493	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	2.38	101	83127	20.860	ug/l 99
10) 1,1-Dichloroethene	2.37	96	80139	19.994	ug/l 97
11) Methyl Iodide	2.50	142	111272	20.700	ug/l 98
12) Methyl Acetate	2.76	43	152650	21.082	ug/l 100
13) Acrolein	2.28	56	71689	94.259	ug/l 99
14) Acrylonitrile	3.13	53	243619	98.329	ug/l 99
15) Acetone	2.43	58	66857	80.492	ug/l 86
16) Carbon Disulfide	2.56	76	207001	18.804	ug/l 98
17) Allyl chloride	2.72	41	145046	19.553	ug/l 95
18) Methylene Chloride	2.85	84	95401	20.337	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	85202	19.746	ug/l 97
20) Diisopropyl ether	3.84	45	300510	20.476	ug/l 97
21) 1,1-Dichloroethane	3.69	63	159179	19.964	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	101295	20.429	ug/l 96
23) tert-Butyl Alcohol	3.02	59	94005	91.744	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	275144	20.626	ug/l 98
25) Chloroform	5.20	83	157838	20.436	ug/l 100
26) Cyclohexane	5.58	56	140566	19.113	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	117940	19.948	ug/l 99
30) 2-Butanone	4.65	43	342652	91.490	ug/l 100
31) 2,2-Dichloropropane	4.58	77	130487	20.627	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	130024	19.878	ug/l 99
33) Carbon Tetrachloride	5.78	117	111064	19.778	ug/l 98
34) Benzene	6.14	78	361065	19.763	ug/l 100
35) Methacrylonitrile	5.03	41	69883	18.683	ug/l 93
36) 1,2-Dichloroethane	6.18	62	128685	20.240	ug/l 99
37) Trichloroethene	7.21	130	95935	19.178	ug/l 99
38) Methylcyclohexane	7.46	83	141639	19.241	ug/l 99
39) 1,2-Dichloropropane	7.51	63	94281	19.845	ug/l 95
40) Dibromomethane	7.65	93	60153	19.702	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	118655	19.845	ug/l	99
42) Vinyl Acetate	3.80	43	1169781	101.335	ug/l	99
43) Ethyl Acetate	4.82	43	128099	18.894	ug/l	97
44) Isopropyl Acetate	6.43	43	213527	19.523	ug/l	99
45) 1,4-Dioxane	7.73	88	39087	357.267	ug/l	99
46) Methyl methacrylate	7.76	41	104680	19.462	ug/l	99
47) n-amyl Acetate	10.89	43	188730	20.594	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	131635	20.166	ug/l	93
49) cis-1,3-Dichloropropene	8.43	75	146825	19.962	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	91365	19.666	ug/l	97
51) Ethyl methacrylate	9.17	69	139555	19.292	ug/l	99
52) 1,3-Dichloropropane	9.37	76	155741	19.785	ug/l	99
53) Dibromochloromethane	9.57	129	94587	19.904	ug/l	99
54) 1,2-Dibromoethane	9.67	107	96140	19.953	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	312743	94.072	ug/l	99
56) Bromoform	10.85	173	70449	19.247	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	677269	98.193	ug/l	99
59) 2-Hexanone	9.48	43	504547	94.585	ug/l	100
61) Tetrachloroethene	9.33	164	98257	18.150	ug/l	95
62) Toluene	8.78	91	386747	19.902	ug/l	98
64) Chlorobenzene	10.14	112	241867	19.938	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	91309	20.380	ug/l	100
66) Ethyl Benzene	10.25	91	417019	19.703	ug/l	98
67) m/p-Xylenes	10.35	106	316174	38.999	ug/l	98
68) o-Xylene	10.69	106	154864	19.616	ug/l	99
69) Styrene	10.71	104	260744	19.493	ug/l	99
70) Isopropylbenzene	11.01	105	411671	19.904	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	141365	20.291	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	136057m	22.831	ug/l	
73) Bromobenzene	11.25	156	109968	20.058	ug/l	97
74) n-propylbenzene	11.35	91	468161	19.809	ug/l	99
75) 2-Chlorotoluene	11.42	91	279763	19.752	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	338703	19.653	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	43485	18.960	ug/l	99
78) 4-Chlorotoluene	11.51	91	317335	19.727	ug/l	99
79) tert-butylbenzene	11.76	119	322970	20.028	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	339883	19.773	ug/l	99
81) sec-Butylbenzene	11.94	105	396011	19.846	ug/l	99
82) p-Isopropyltoluene	12.06	119	358907	19.703	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	186001	19.430	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	188607	19.872	ug/l	99
85) n-Butylbenzene	12.39	91	301249	18.901	ug/l	99
86) Hexachloroethane	12.59	117	64396	19.713	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	189853	19.655	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29201	19.622	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	124564	19.537	ug/l	98
90) Hexachlorobutadiene	13.78	225	62099	19.493	ug/l	98
91) Naphthalene	13.83	128	372779	19.370	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	124778	19.227	ug/l	99

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

