

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013395.D
 Acq On : 12 Nov 2019 19:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/13/2019 9:38:35 AM

Quant Time: Nov 13 02:48:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	120082	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	668908	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	603598	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	258340	29.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.10%
60) 4-Bromofluorobenzene	11.13	95	285524	29.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.10%
63) Toluene-d8	8.71	98	827764	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	171871	19.103	ug/l 100
3) Chloromethane	1.32	50	190836	19.462	ug/l 100
4) Vinyl Chloride	1.40	62	214416	19.244	ug/l 99
5) Bromomethane	1.63	94	115946	17.310	ug/l 99
6) Chloroethane	1.72	64	117248	19.144	ug/l 100
7) Trichlorofluoromethane	1.92	101	223855	18.662	ug/l 97
8) Diethyl Ether	2.18	74	103014	18.809	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	131240	18.185	ug/l 99
10) 1,1-Dichloroethene	2.36	96	140581	18.956	ug/l 99
11) Methyl Iodide	2.50	142	161332	17.618	ug/l 99
12) Methyl Acetate	2.76	43	234358	18.034	ug/l 98
13) Acrolein	2.28	56	105518	76.440	ug/l 99
14) Acrylonitrile	3.12	53	414323	86.702	ug/l 99
15) Acetone	2.43	58	119991	82.906	ug/l 98
16) Carbon Disulfide	2.56	76	376455	18.199	ug/l 99
17) Allyl chloride	2.72	41	246930	18.080	ug/l 99
18) Methylene Chloride	2.84	84	160272	19.047	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	150485	18.986	ug/l 98
20) Diisopropyl ether	3.84	45	495589	18.861	ug/l 97
21) 1,1-Dichloroethane	3.69	63	272496	19.041	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	172075	19.042	ug/l 97
23) tert-Butyl Alcohol	3.02	59	194488	84.569	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	460514	18.762	ug/l 100
25) Chloroform	5.20	83	268854	19.192	ug/l 98
26) Cyclohexane	5.56	56	234770	18.064	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	200056	19.581	ug/l 99
30) 2-Butanone	4.65	43	607953	90.152	ug/l 99
31) 2,2-Dichloropropane	4.57	77	207013	18.709	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	222865	19.625	ug/l 98
33) Carbon Tetrachloride	5.78	117	190364	19.299	ug/l 94
34) Benzene	6.13	78	620323	20.017	ug/l 98
35) Methacrylonitrile	5.03	41	127588	18.946	ug/l 96
36) 1,2-Dichloroethane	6.18	62	215898	19.904	ug/l 99
37) Trichloroethene	7.20	130	163277	19.667	ug/l 94
38) Methylcyclohexane	7.46	83	241148	19.250	ug/l 99
39) 1,2-Dichloropropane	7.50	63	158498	19.780	ug/l 97
40) Dibromomethane	7.65	93	104841	19.660	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	198069	19.027	ug/l	97
42) Vinyl Acetate	3.80	43	2052234	96.659	ug/l	100
43) Ethyl Acetate	4.82	43	222879	18.121	ug/l	96
44) Isopropyl Acetate	6.43	43	366908	18.558	ug/l	98
45) 1,4-Dioxane	7.73	88	80594	369.223	ug/l	99
46) Methyl methacrylate	7.76	41	183395	18.648	ug/l	96
47) n-amyl Acetate	10.89	43	317051	18.282	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	214191	18.349	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	245675	19.208	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	157342	19.939	ug/l	96
51) Ethyl methacrylate	9.17	69	246232	18.952	ug/l	98
52) 1,3-Dichloropropane	9.37	76	263863	19.560	ug/l	98
53) Dibromochloromethane	9.57	129	158546	18.957	ug/l	98
54) 1,2-Dibromoethane	9.67	107	164954	19.549	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	489166	88.116	ug/l	99
56) Bromoform	10.85	173	121005	18.181	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1183128	93.830	ug/l	99
59) 2-Hexanone	9.48	43	910110	91.222	ug/l	99
61) Tetrachloroethene	9.33	164	151566	20.363	ug/l	95
62) Toluene	8.78	91	663982	19.749	ug/l	100
64) Chlorobenzene	10.14	112	414321	19.709	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	148464	18.867	ug/l	99
66) Ethyl Benzene	10.25	91	719062	19.468	ug/l	99
67) m/p-Xylenes	10.35	106	553491	38.847	ug/l	99
68) o-Xylene	10.70	106	269198	19.577	ug/l	99
69) Styrene	10.71	104	455338	19.393	ug/l	99
70) Isopropylbenzene	11.01	105	716546	19.776	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	249449	19.228	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	200692m	18.321	ug/l	
73) Bromobenzene	11.25	156	185671	19.431	ug/l	96
74) n-propylbenzene	11.35	91	802227	19.483	ug/l	100
75) 2-Chlorotoluene	11.42	91	475718	19.428	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	585883	19.237	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	74885	16.907	ug/l	93
78) 4-Chlorotoluene	11.51	91	535498	19.088	ug/l	100
79) tert-butylbenzene	11.76	119	585903	19.068	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	587764	19.367	ug/l	99
81) sec-Butylbenzene	11.94	105	676544	19.297	ug/l	100
82) p-Isopropyltoluene	12.06	119	620175	19.199	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	324469	19.315	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	319483	19.159	ug/l	98
85) n-Butylbenzene	12.39	91	519567	18.637	ug/l	100
86) Hexachloroethane	12.59	117	106577	17.980	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	324823	19.337	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	51223	17.655	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	211708	18.278	ug/l	98
90) Hexachlorobutadiene	13.78	225	102361	18.443	ug/l	98
91) Naphthalene	13.83	128	680938	18.568	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	216922	18.532	ug/l	99

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

