

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
 Data File : VX013779.D
 Acq On : 05 Dec 2019 16:12
 Operator : JC/SP
 Sample : VX1205WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1205WBSD01

Manual Integrations
 APPROVED

apatel
 12/9/2019 10:25:52 AM

Quant Time: Dec 06 11:43:22 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	113974	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	632614	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	570705	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	239575	28.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.90%
60) 4-Bromofluorobenzene	11.14	95	267279	29.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.13%
63) Toluene-d8	8.71	98	763381	29.58	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	147439	17.265	ug/l 99
3) Chloromethane	1.32	50	157962	16.973	ug/l 99
4) Vinyl Chloride	1.40	62	182573	17.264	ug/l 99
5) Bromomethane	1.63	94	94920	14.930	ug/l 100
6) Chloroethane	1.72	64	103399	17.787	ug/l 100
7) Trichlorofluoromethane	1.92	101	200273	17.591	ug/l 100
8) Diethyl Ether	2.18	74	93089	17.908	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	120845	17.642	ug/l 99
10) 1,1-Dichloroethene	2.37	96	121048	17.197	ug/l 93
11) Methyl Iodide	2.50	142	124271	14.298	ug/l 99
12) Methyl Acetate	2.76	43	213294	17.293	ug/l 100
13) Acrolein	2.28	56	94466	72.101	ug/l 98
14) Acrylonitrile	3.13	53	371467	81.899	ug/l 99
15) Acetone	2.43	58	98811	71.930	ug/l 99
16) Carbon Disulfide	2.56	76	315847	16.087	ug/l 100
17) Allyl chloride	2.72	41	211873	16.345	ug/l 97
18) Methylene Chloride	2.85	84	142819	17.883	ug/l 95
19) trans-1,2-Dichloroethene	3.15	96	126679	16.839	ug/l 97
20) Diisopropyl ether	3.84	45	431823	17.315	ug/l 90
21) 1,1-Dichloroethane	3.69	63	235396	17.330	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	150389	17.534	ug/l 97
23) tert-Butyl Alcohol	3.03	59	170325	78.031	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	409838	17.592	ug/l 100
25) Chloroform	5.20	83	230947	17.370	ug/l 100
26) Cyclohexane	5.57	56	209089	16.951	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	170682	17.664	ug/l 99
30) 2-Butanone	4.66	43	521409	81.754	ug/l 99
31) 2,2-Dichloropropane	4.58	77	181635	17.357	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	195515	18.205	ug/l 99
33) Carbon Tetrachloride	5.78	117	167146	17.918	ug/l 98
34) Benzene	6.14	78	536418	18.303	ug/l 100
35) Methacrylonitrile	5.03	41	109822	17.243	ug/l 96
36) 1,2-Dichloroethane	6.18	62	188200	18.346	ug/l 99
37) Trichloroethene	7.21	130	143772	18.311	ug/l 95
38) Methylcyclohexane	7.46	83	207910	17.549	ug/l 99
39) 1,2-Dichloropropane	7.51	63	133607	17.631	ug/l 98
40) Dibromomethane	7.66	93	90624	17.969	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	177704	18.050	ug/l	98
42) Vinyl Acetate	3.80	43	1788033	89.047	ug/l	100
43) Ethyl Acetate	4.82	43	205549	17.671	ug/l	98
44) Isopropyl Acetate	6.43	43	323996	17.328	ug/l	99
45) 1,4-Dioxane	7.73	88	70324	340.657	ug/l	97
46) Methyl methacrylate	7.76	41	161136	17.325	ug/l	100
47) n-amyl Acetate	10.89	43	278805	16.999	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	191850	17.378	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	212025	17.528	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	138343	18.537	ug/l	99
51) Ethyl methacrylate	9.17	69	220676	17.960	ug/l	99
52) 1,3-Dichloropropane	9.37	76	234894	18.412	ug/l	99
53) Dibromochloromethane	9.57	129	141716	17.917	ug/l	97
54) 1,2-Dibromoethane	9.67	107	146143	18.314	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	442698	84.320	ug/l	99
56) Bromoform	10.85	173	108386	17.219	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1044238	87.588	ug/l	99
59) 2-Hexanone	9.48	43	793377	84.105	ug/l	99
61) Tetrachloroethene	9.33	164	130238	18.506	ug/l	98
62) Toluene	8.78	91	581310	18.286	ug/l	99
64) Chlorobenzene	10.14	112	363149	18.270	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	131839	17.720	ug/l	98
66) Ethyl Benzene	10.25	91	631310	18.077	ug/l	99
67) m/p-Xylenes	10.35	106	485602	36.046	ug/l	99
68) o-Xylene	10.70	106	234845	18.063	ug/l	99
69) Styrene	10.71	104	398300	17.941	ug/l	100
70) Isopropylbenzene	11.01	105	620921	18.125	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	220878	18.007	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	201473m	19.452	ug/l	
73) Bromobenzene	11.25	156	159754	17.683	ug/l	99
74) n-propylbenzene	11.35	91	694557	17.840	ug/l	99
75) 2-Chlorotoluene	11.42	91	419909	18.137	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	518007	17.989	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	66249	15.819	ug/l	96
78) 4-Chlorotoluene	11.51	91	471109	17.761	ug/l	100
79) tert-butylbenzene	11.77	119	524997	18.070	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	516499	17.999	ug/l	100
81) sec-Butylbenzene	11.94	105	601699	18.152	ug/l	99
82) p-Isopropyltoluene	12.06	119	544420	17.826	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	279982	17.627	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	278362	17.655	ug/l	100
85) n-Butylbenzene	12.38	91	441729	16.758	ug/l	99
86) Hexachloroethane	12.59	117	97352	17.370	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	284831	17.933	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	45963	16.755	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	187647	17.135	ug/l	100
90) Hexachlorobutadiene	13.77	225	88551	16.874	ug/l	97
91) Naphthalene	13.83	128	592187	17.079	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	185640	16.774	ug/l	96

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

