

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011620\
 Data File : VX014633.D
 Acq On : 16 Jan 2020 13:14
 Operator : JC/SP
 Sample : VX0116WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0116WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/17/2020 11:23:33 AM

Quant Time: Jan 17 06:17:45 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	5.00	128	73147	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	393352	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	361141	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	155573	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	11.13	95	173477	30.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.07%
63) Toluene-d8	8.71	98	490487	30.07	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	102073	20.192 ug/l	99
3) Chloromethane	1.32	50	105946	19.143 ug/l	94
4) Vinyl Chloride	1.40	62	119812	19.280 ug/l	97
5) Bromomethane	1.64	94	69849	18.012 ug/l	99
6) Chloroethane	1.72	64	67789	19.350 ug/l	96
7) Trichlorofluoromethane	1.92	101	133496	19.401 ug/l	100
8) Diethyl Ether	2.17	74	60978	20.289 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	80878	20.090 ug/l	98
10) 1,1-Dichloroethene	2.37	96	77568	19.156 ug/l	98
11) Methyl Iodide	2.50	142	100211	18.453 ug/l	99
12) Methyl Acetate	2.76	43	150358	20.555 ug/l	97
13) Acrolein	2.28	56	68522	89.182 ug/l	99
14) Acrylonitrile	3.12	53	247269	98.791 ug/l	100
15) Acetone	2.43	58	74016	88.208 ug/l	93
16) Carbon Disulfide	2.56	76	206135	18.536 ug/l	98
17) Allyl chloride	2.72	41	139134	18.566 ug/l	96
18) Methylene Chloride	2.84	84	93261	19.679 ug/l	94
19) trans-1,2-Dichloroethene	3.15	96	84836	19.462 ug/l	96
20) Diisopropyl ether	3.84	45	293939	19.825 ug/l	96
21) 1,1-Dichloroethane	3.69	63	152489	18.931 ug/l	98
22) cis-1,2-Dichloroethene	4.58	96	97915	19.547 ug/l	98
23) tert-Butyl Alcohol	3.02	59	106055	102.456 ug/l #	100
24) Methyl tert-Butyl Ether	3.18	73	263829	19.578 ug/l	98
25) Chloroform	5.20	83	151720	19.445 ug/l	96
26) Cyclohexane	5.57	56	142296	19.152 ug/l	98
29) 1,1-Dichloropropene	5.79	75	113665	19.703 ug/l	99
30) 2-Butanone	4.65	43	349295	95.584 ug/l	99
31) 2,2-Dichloropropane	4.57	77	116169	18.820 ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	124045	19.436 ug/l	100
33) Carbon Tetrachloride	5.77	117	107150	19.556 ug/l	97
34) Benzene	6.13	78	352244	19.760 ug/l	99
35) Methacrylonitrile	5.03	41	71805	19.674 ug/l	95
36) 1,2-Dichloroethane	6.18	62	122712	19.781 ug/l	99
37) Trichloroethene	7.20	130	97208	19.916 ug/l	93
38) Methylcyclohexane	7.45	83	143838	20.026 ug/l	98
39) 1,2-Dichloropropane	7.50	63	89136	19.229 ug/l	94
40) Dibromomethane	7.65	93	59304	19.907 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	113935	19.530	ug/l	99
42) Vinyl Acetate	3.80	43	1138645	101.092	ug/l	100
43) Ethyl Acetate	4.81	43	126543	19.129	ug/l	100
44) Isopropyl Acetate	6.43	43	215149	20.161	ug/l	100
45) 1,4-Dioxane	7.73	88	45149	422.943	ug/l	100
46) Methyl methacrylate	7.76	41	104538	19.920	ug/l	98
47) n-amyl Acetate	10.89	43	174638	19.530	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	123229	19.347	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	139630	19.456	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	90442	19.951	ug/l	99
51) Ethyl methacrylate	9.17	69	136821	19.385	ug/l	96
52) 1,3-Dichloropropane	9.36	76	153840	20.030	ug/l	97
53) Dibromochloromethane	9.57	129	90589	19.537	ug/l	98
54) 1,2-Dibromoethane	9.67	107	94817	20.168	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	321271	99.041	ug/l	99
56) Bromoform	10.85	173	66998	18.759	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	683129	100.447	ug/l	99
59) 2-Hexanone	9.48	43	518923	98.660	ug/l	99
61) Tetrachloroethene	9.33	164	105238	19.715	ug/l	96
62) Toluene	8.78	91	376068	19.627	ug/l	99
64) Chlorobenzene	10.13	112	235572	19.695	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	87357	19.775	ug/l	99
66) Ethyl Benzene	10.25	91	406327	19.470	ug/l	98
67) m/p-Xylenes	10.35	106	314257	39.312	ug/l	100
68) o-Xylene	10.69	106	150539	19.339	ug/l	99
69) Styrene	10.71	104	253306	19.206	ug/l	99
70) Isopropylbenzene	11.01	105	398965	19.564	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	134461	19.574	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	118740m	20.208	ug/l	
73) Bromobenzene	11.25	156	104569	19.343	ug/l	99
74) n-propylbenzene	11.35	91	456937	19.609	ug/l	98
75) 2-Chlorotoluene	11.42	91	270538	19.371	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	332456	19.565	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	42370	18.736	ug/l	97
78) 4-Chlorotoluene	11.51	91	308459	19.448	ug/l	98
79) tert-butylbenzene	11.76	119	313044	19.688	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	331620	19.566	ug/l	98
81) sec-Butylbenzene	11.94	105	385980	19.618	ug/l	99
82) p-Isopropyltoluene	12.06	119	353542	19.683	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	183291	19.418	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	184299	19.694	ug/l	100
85) n-Butylbenzene	12.39	91	297081	18.904	ug/l	99
86) Hexachloroethane	12.59	117	58945	18.301	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	185304	19.456	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	28156	19.188	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	122647	19.510	ug/l	99
90) Hexachlorobutadiene	13.78	225	61711	19.646	ug/l	98
91) Naphthalene	13.83	128	372474	19.628	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	123868	19.358	ug/l	98

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

