

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007930.D
 Acq On : 08 Mar 2019 14:43
 Operator : JC/SP
 Sample : VX0308WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0308WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:01:56 PM

Quant Time: Mar 09 04:32:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	47022	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	250729	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	221087	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	91467	29.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.63%
60) 4-Bromofluorobenzene	11.13	95	107295	30.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.37%
63) Toluene-d8	8.71	98	304422	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	48819	17.488	ug/l 98
3) Chloromethane	1.33	50	54118	17.434	ug/l 96
4) Vinyl Chloride	1.41	62	52429	17.051	ug/l 97
5) Bromomethane	1.64	94	28968	18.897	ug/l 96
6) Chloroethane	1.73	64	30701	17.096	ug/l 96
7) Trichlorofluoromethane	1.93	101	63171	16.498	ug/l 99
8) Diethyl Ether	2.19	74	34961	17.730	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	49433	17.172	ug/l 99
10) 1,1-Dichloroethene	2.38	96	48495	17.773	ug/l 94
11) Methyl Iodide	2.51	142	74030	17.332	ug/l 94
12) Methyl Acetate	2.78	43	75357	17.463	ug/l 97
13) Acrolein	2.30	56	44010	86.931	ug/l 99
14) Acrylonitrile	3.15	53	168193	91.817	ug/l 99
15) Acetone	2.45	58	50363	76.150	ug/l 98
16) Carbon Disulfide	2.57	76	151481	17.695	ug/l 99
17) Allyl chloride	2.73	41	98565	17.620	ug/l 91
18) Methylene Chloride	2.86	84	54857	17.648	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	50968	17.654	ug/l 98
20) Diisopropyl ether	3.87	45	183956	17.975	ug/l 91
21) 1,1-Dichloroethane	3.70	63	97548	17.526	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	59357	17.824	ug/l 92
23) tert-Butyl Alcohol	3.07	59	70554	95.470	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	167506	17.855	ug/l 95
25) Chloroform	5.21	83	93845	17.864	ug/l 98
26) Cyclohexane	5.58	56	90176	17.533	ug/l # 91
29) 1,1-Dichloropropene	5.80	75	71223	17.915	ug/l 97
30) 2-Butanone	4.70	43	239922	89.479	ug/l 97
31) 2,2-Dichloropropane	4.59	77	62081	16.907	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	76712	17.845	ug/l 98
33) Carbon Tetrachloride	5.79	117	66831	17.527	ug/l 99
34) Benzene	6.15	78	220469	18.096	ug/l 98
35) Methacrylonitrile	5.06	41	48598	18.600	ug/l 94
36) 1,2-Dichloroethane	6.20	62	71497	18.038	ug/l 98
37) Trichloroethene	7.21	130	59387	17.991	ug/l 96
38) Methylcyclohexane	7.46	83	87683	17.348	ug/l 95
39) 1,2-Dichloropropane	7.52	63	57670	18.151	ug/l 98
40) Dibromomethane	7.66	93	36575	18.148	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	67670	17.764	ug/l	99
42) Vinyl Acetate	3.82	43	806788	92.953	ug/l	97
43) Ethyl Acetate	4.85	43	86047	18.424	ug/l #	83
44) Isopropyl Acetate	6.46	43	129195	18.129	ug/l	100
45) 1,4-Dioxane	7.75	88	29316	393.201	ug/l	92
46) Methyl methacrylate	7.77	41	68737	18.340	ug/l	89
47) n-amyl Acetate	10.90	43	110708	18.030	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	69913	16.946	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	81436	17.432	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	55799	18.164	ug/l	95
51) Ethyl methacrylate	9.18	69	84028	18.036	ug/l	93
52) 1,3-Dichloropropane	9.37	76	92914	18.305	ug/l	98
53) Dibromochloromethane	9.58	129	56202	17.786	ug/l	100
54) 1,2-Dibromoethane	9.67	107	58804	18.310	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	212175	97.919	ug/l	98
56) Bromoform	10.85	173	43830	17.389	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	440861	96.853	ug/l	99
59) 2-Hexanone	9.49	43	336366	93.614	ug/l	100
61) Tetrachloroethene	9.34	164	59843	18.555	ug/l	96
62) Toluene	8.78	91	234861	18.192	ug/l	100
64) Chlorobenzene	10.14	112	148338	18.028	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	52942	17.971	ug/l	99
66) Ethyl Benzene	10.25	91	249365	17.983	ug/l	99
67) m/p-Xylenes	10.36	106	192015	36.113	ug/l	96
68) o-Xylene	10.69	106	93598	18.128	ug/l	98
69) Styrene	10.71	104	152729	17.953	ug/l	99
70) Isopropylbenzene	11.02	105	251565	18.234	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	85429	18.749	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	80596m	18.765	ug/l	
73) Bromobenzene	11.26	156	67184	18.317	ug/l	96
74) n-propylbenzene	11.36	91	279403	17.954	ug/l	98
75) 2-Chlorotoluene	11.42	91	169089	18.127	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	207897	18.183	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	22031	16.602	ug/l	95
78) 4-Chlorotoluene	11.51	91	189776	17.995	ug/l	95
79) tert-butylbenzene	12.06	119	218296	17.791	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	209563	18.059	ug/l	98
81) sec-Butylbenzene	11.94	105	245864	17.889	ug/l	98
82) p-Isopropyltoluene	12.06	119	218296	17.791	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	116078	17.775	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	116267	17.795	ug/l	98
85) n-Butylbenzene	12.39	91	179701	17.125	ug/l	99
86) Hexachloroethane	12.60	117	34533	17.273	ug/l	84
87) 1,2-Dichlorobenzene	12.39	146	116399	18.036	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16976	18.239	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	81036	17.472	ug/l	99
90) Hexachlorobutadiene	13.78	225	44477	17.387	ug/l	99
91) Naphthalene	13.83	128	238099	17.909	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	80756	17.517	ug/l	99

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

