

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008492.D
 Acq On : 27 Mar 2019 18:58
 Operator : JC/SP
 Sample : VX0327WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0327WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:35:39 AM

Quant Time: Mar 28 03:33:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	35145	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	199359	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	175181	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	85446	29.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.87%
60) 4-Bromofluorobenzene	11.13	95	90684	29.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.03%
63) Toluene-d8	8.71	98	251720	30.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	43200	17.976 ug/l	98
3) Chloromethane	1.32	50	61229	19.446 ug/l	96
4) Vinyl Chloride	1.40	62	59420	18.722 ug/l	96
5) Bromomethane	1.64	94	29007	17.639 ug/l	98
6) Chloroethane	1.72	64	35329	17.007 ug/l	95
7) Trichlorofluoromethane	1.93	101	65503	18.594 ug/l	99
8) Diethyl Ether	2.18	74	31303	18.843 ug/l	82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	39672	18.084 ug/l	93
10) 1,1-Dichloroethene	2.37	96	42300	19.006 ug/l	88
11) Methyl Iodide	2.51	142	38354	16.643 ug/l	97
12) Methyl Acetate	3.20	43	34398	19.069 ug/l	93
13) Acrolein	2.29	56	43135	83.355 ug/l	94
14) Acrylonitrile	3.14	53	159009	95.346 ug/l	99
15) Acetone	2.44	58	42730	83.088 ug/l	97
16) Carbon Disulfide	2.57	76	126015	18.201 ug/l	98
17) Allyl chloride	2.73	41	91406	18.274 ug/l	91
18) Methylene Chloride	2.85	84	50585	19.014 ug/l	85
19) trans-1,2-Dichloroethene	3.17	96	44000	18.505 ug/l	86
20) Diisopropyl ether	3.85	45	185533	19.057 ug/l #	87
21) 1,1-Dichloroethane	3.70	63	92534	18.936 ug/l	96
22) cis-1,2-Dichloroethene	4.59	96	50804	18.490 ug/l #	80
23) tert-Butyl Alcohol	3.04	59	64449	95.703 ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	156115	19.086 ug/l	99
25) Chloroform	5.21	83	84286	19.041 ug/l	94
26) Cyclohexane	5.58	56	88202	18.579 ug/l #	83
29) 1,1-Dichloropropene	5.80	75	64203	19.143 ug/l	94
30) 2-Butanone	4.67	43	232598	94.310 ug/l	94
31) 2,2-Dichloropropane	4.59	77	55989	16.714 ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	66886	19.204 ug/l	94
33) Carbon Tetrachloride	5.79	117	54183	18.594 ug/l	96
34) Benzene	6.14	78	199679	19.476 ug/l #	96
35) Methacrylonitrile	5.04	41	48614	19.383 ug/l	91
36) 1,2-Dichloroethane	6.20	62	71435	19.543 ug/l	98
37) Trichloroethene	7.21	130	45380	19.247 ug/l	86
38) Methylcyclohexane	7.46	83	77355	18.304 ug/l	88
39) 1,2-Dichloropropane	7.51	63	56349	19.378 ug/l	97
40) Dibromomethane	7.66	93	32149	19.085 ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	62029	18.728	ug/l	97
42) Vinyl Acetate	3.81	43	823091	98.449	ug/l #	93
43) Ethyl Acetate	4.84	43	87135	19.630	ug/l #	79
44) Isopropyl Acetate	6.45	43	138380	19.279	ug/l	99
45) 1,4-Dioxane	7.74	88	28869	404.025	ug/l #	85
46) Methyl methacrylate	7.77	41	70714	19.398	ug/l	88
47) n-amyl Acetate	10.90	43	123965	19.013	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	65914	17.619	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	76821	18.358	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	48546	19.409	ug/l	98
51) Ethyl methacrylate	9.18	69	87975	18.901	ug/l	93
52) 1,3-Dichloropropane	9.37	76	86011	19.329	ug/l	99
53) Dibromochloromethane	9.58	129	44831	18.214	ug/l	100
54) 1,2-Dibromoethane	9.67	107	49453	19.180	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	223806	95.311	ug/l	95
56) Bromoform	10.85	173	31208	17.398	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	457792	99.055	ug/l	96
59) 2-Hexanone	9.49	43	353442	96.800	ug/l	97
61) Tetrachloroethene	9.33	164	37197	19.412	ug/l	99
62) Toluene	8.78	91	207799	19.592	ug/l	99
64) Chlorobenzene	10.14	112	119805	19.277	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	41680	19.022	ug/l	98
66) Ethyl Benzene	10.25	91	225501	19.155	ug/l	96
67) m/p-Xylenes	10.36	106	165783	38.608	ug/l	91
68) o-Xylene	10.70	106	81689	19.441	ug/l	92
69) Styrene	10.71	104	139706	19.107	ug/l	96
70) Isopropylbenzene	11.02	105	213458	19.258	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	82043	19.813	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	76982m	21.994	ug/l	
73) Bromobenzene	11.26	156	50247	19.054	ug/l	77
74) n-propylbenzene	11.36	91	249949	18.929	ug/l	94
75) 2-Chlorotoluene	11.42	91	150805	19.196	ug/l	89
76) 1,3,5-Trimethylbenzene	11.51	105	180087	19.004	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	22307	16.615	ug/l	94
78) 4-Chlorotoluene	11.51	91	169723	18.771	ug/l	90
79) tert-butylbenzene	12.06	119	181081	18.698	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	179506	18.998	ug/l	94
81) sec-Butylbenzene	11.94	105	205212	18.953	ug/l	95
82) p-Isopropyltoluene	12.06	119	181081	18.698	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	88027	18.802	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	87216	18.642	ug/l	96
85) n-Butylbenzene	12.38	91	165275	17.962	ug/l	97
86) Hexachloroethane	12.60	117	28704	17.740	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	89814	19.039	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18178	19.807	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	60720	18.660	ug/l	100
90) Hexachlorobutadiene	13.78	225	28778	18.358	ug/l	98
91) Naphthalene	13.83	128	222293	19.939	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	63888	19.491	ug/l	98

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

