

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009260.D
 Acq On : 01 May 2019 17:38
 Operator : JC/SP
 Sample : K2241-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOQ-WATER-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:41 AM

Quant Time: May 02 07:05:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31487	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	178076	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	157795	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	76018	29.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.00%
60) 4-Bromofluorobenzene	11.13	95	78575	29.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.67%
63) Toluene-d8	8.71	98	227039	30.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7611	4.549 ug/l	96
3) Chloromethane	1.32	50	10849	4.824 ug/l	98
4) Vinyl Chloride	1.41	62	10708	4.773 ug/l	94
5) Bromomethane	1.64	94	7140	5.021 ug/l	100
6) Chloroethane	1.71	64	6805	4.625 ug/l	98
7) Trichlorofluoromethane	1.92	101	13433	4.849 ug/l	95
8) Diethyl Ether	2.18	74	6746	5.244 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8541	4.980 ug/l	98
10) 1,1-Dichloroethene	2.37	96	8422	4.890 ug/l	98
11) Methyl Iodide	2.51	142	6881	3.675 ug/l	99
12) Methyl Acetate	2.77	43	18150	5.595 ug/l	97
13) Acrolein	2.29	56	12753	28.664 ug/l	98
14) Acrylonitrile	3.14	53	35949	25.536 ug/l	99
15) Acetone	2.45	58	10434	25.814 ug/l	99
16) Carbon Disulfide	2.57	76	19666	4.220 ug/l	100
17) Allyl chloride	2.73	41	19855	4.802 ug/l	96
18) Methylene Chloride	2.85	84	10373	4.984 ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	8969	4.884 ug/l	96
20) Diisopropyl ether	3.85	45	40947	5.029 ug/l	95
21) 1,1-Dichloroethane	3.70	63	19877	5.044 ug/l	96
22) cis-1,2-Dichloroethene	4.60	96	11107	5.022 ug/l	97
23) tert-Butyl Alcohol	3.05	59	16200	27.214 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	34033	5.049 ug/l	98
25) Chloroform	5.21	83	18585	5.168 ug/l	95
26) Cyclohexane	5.58	56	17229	4.691 ug/l #	93
29) 1,1-Dichloropropene	5.79	75	13264	5.076 ug/l	98
30) 2-Butanone	4.68	43	54072	26.424 ug/l	98
31) 2,2-Dichloropropane	4.58	77	14384	4.993 ug/l #	78
32) 1,1,1-Trichloroethane	5.49	97	14520	5.126 ug/l	98
33) Carbon Tetrachloride	5.78	117	11348m	4.788 ug/l	
34) Benzene	6.14	78	41985	5.212 ug/l	98
35) Methacrylonitrile	5.04	41	11517	5.379 ug/l	97
36) 1,2-Dichloroethane	6.19	62	15815	5.410 ug/l	99
37) Trichloroethene	7.21	130	9760	5.033 ug/l	87
38) Methylcyclohexane	7.46	83	15663	4.852 ug/l	99
39) 1,2-Dichloropropane	7.51	63	12027	5.243 ug/l	96
40) Dibromomethane	7.66	93	6822	5.240 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	13337	5.015	ug/l	95
42) Vinyl Acetate	3.81	43	166682	24.680	ug/l	99
43) Ethyl Acetate	4.84	43	20543	5.556	ug/l	97
44) Isopropyl Acetate	6.45	43	29906	4.992	ug/l	98
45) 1,4-Dioxane	7.74	88	6693	113.804	ug/l	98
46) Methyl methacrylate	7.77	41	15382	5.145	ug/l	97
47) n-amyl Acetate	10.90	43	26498	4.910	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	14350	4.624	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	16078	4.720	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	10972	5.500	ug/l	95
51) Ethyl methacrylate	9.18	69	18298	4.964	ug/l	98
52) 1,3-Dichloropropane	9.37	76	19008	5.369	ug/l	100
53) Dibromochloromethane	9.58	129	9838	4.952	ug/l	100
54) 1,2-Dibromoethane	9.67	107	10472	5.119	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	47221	24.039	ug/l	99
56) Bromoform	10.85	173	6874	4.508	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	103136	26.581	ug/l	99
59) 2-Hexanone	9.49	43	80023	26.295	ug/l	100
61) Tetrachloroethene	9.34	164	8933	5.135	ug/l	90
62) Toluene	8.78	91	43345	5.141	ug/l	99
64) Chlorobenzene	10.13	112	26552	5.232	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	9428	5.074	ug/l	99
66) Ethyl Benzene	10.25	91	47816	5.090	ug/l	98
67) m/p-Xylenes	10.36	106	34459	10.048	ug/l	99
68) o-Xylene	10.69	106	17369	5.151	ug/l	100
69) Styrene	10.71	104	29047	4.907	ug/l	99
70) Isopropylbenzene	11.02	105	46307	5.106	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	18110	5.453	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	17383m	6.073	ug/l	
73) Bromobenzene	11.26	156	11356	5.068	ug/l	98
74) n-propylbenzene	11.36	91	52753	5.019	ug/l	100
75) 2-Chlorotoluene	11.42	91	32835	5.209	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	38718	5.040	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	4761	4.124	ug/l	88
78) 4-Chlorotoluene	11.51	91	35799	5.000	ug/l	99
79) tert-butylbenzene	11.77	119	38105	5.131	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	38527	5.004	ug/l	99
81) sec-Butylbenzene	11.94	105	45166	5.119	ug/l	98
82) p-Isopropyltoluene	12.06	119	39386	4.907	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	19951	4.986	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	20064	5.033	ug/l	98
85) n-Butylbenzene	12.38	91	33172	4.517	ug/l	100
86) Hexachloroethane	12.60	117	5982	4.380	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	20933	5.197	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	3972	5.146	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	13883	4.835	ug/l	97
90) Hexachlorobutadiene	13.78	225	6911	4.819	ug/l	96
91) Naphthalene	13.83	128	45726	4.864	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	13632	4.671	ug/l	96

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

