

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009474.D
 Acq On : 10 May 2019 11:41
 Operator : JC/SP
 Sample : VX0510WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0510WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 11:51:55 AM

Quant Time: May 10 15:15:59 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	29838	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	165676	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	147305	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	70834	28.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.40%
60) 4-Bromofluorobenzene	11.13	95	73639	29.42	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.07%
63) Toluene-d8	8.71	98	209523	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	29012	18.298	ug/l 100
3) Chloromethane	1.32	50	44333	20.803	ug/l 100
4) Vinyl Chloride	1.41	62	42648	20.060	ug/l 100
5) Bromomethane	1.64	94	24573	18.234	ug/l 95
6) Chloroethane	1.72	64	27676	19.850	ug/l 99
7) Trichlorofluoromethane	1.93	101	54205	20.647	ug/l 99
8) Diethyl Ether	2.19	74	25263	20.724	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	32712	20.126	ug/l 99
10) 1,1-Dichloroethene	2.37	96	33481	20.515	ug/l 97
11) Methyl Iodide	2.51	142	34174	19.262	ug/l 97
12) Methyl Acetate	2.77	43	56863	18.498	ug/l 97
13) Acrolein	2.29	56	44850	106.376	ug/l 100
14) Acrylonitrile	3.14	53	135540	101.599	ug/l 99
15) Acetone	2.44	58	40229	105.029	ug/l 98
16) Carbon Disulfide	2.57	76	93404	21.152	ug/l 100
17) Allyl chloride	2.73	41	77743	19.842	ug/l 99
18) Methylene Chloride	2.85	84	40300	20.432	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	35878	20.618	ug/l 96
20) Diisopropyl ether	3.85	45	155976	20.215	ug/l 96
21) 1,1-Dichloroethane	3.70	63	74972	20.078	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	42458	20.256	ug/l 99
23) tert-Butyl Alcohol	3.04	59	54828	97.195	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	127855	20.018	ug/l 100
25) Chloroform	5.21	83	69040	20.261	ug/l 99
26) Cyclohexane	5.58	56	71915	20.665	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	52900	21.761	ug/l 99
30) 2-Butanone	4.67	43	205564	107.973	ug/l 100
31) 2,2-Dichloropropane	4.58	77	55552	20.728	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	57449	21.799	ug/l 97
33) Carbon Tetrachloride	5.79	117	47003	21.317	ug/l 97
34) Benzene	6.14	78	163063	21.757	ug/l 98
35) Methacrylonitrile	5.04	41	42747	21.461	ug/l 94
36) 1,2-Dichloroethane	6.20	62	58937	21.672	ug/l 99
37) Trichloroethene	7.21	130	38784	21.497	ug/l 97
38) Methylcyclohexane	7.46	83	65127	21.684	ug/l 100
39) 1,2-Dichloropropane	7.51	63	44957	21.064	ug/l 100
40) Dibromomethane	7.66	93	26736	22.071	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	51891	20.972	ug/l	100
42) Vinyl Acetate	3.81	43	689186	109.681	ug/l	99
43) Ethyl Acetate	4.83	43	73390	21.333	ug/l	97
44) Isopropyl Acetate	6.44	43	116969	20.988	ug/l	99
45) 1,4-Dioxane	7.74	88	23180	423.639	ug/l	98
46) Methyl methacrylate	7.77	41	58958	21.195	ug/l	99
47) n-amyl Acetate	10.90	43	100857	20.089	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	58529	20.273	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	66320	20.925	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	40197	21.659	ug/l	99
51) Ethyl methacrylate	9.18	69	70529	20.565	ug/l	99
52) 1,3-Dichloropropane	9.37	76	70633	21.444	ug/l	99
53) Dibromochloromethane	9.58	129	39065	21.136	ug/l	100
54) 1,2-Dibromoethane	9.67	107	41029	21.556	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	164486	90.004	ug/l	100
56) Bromoform	10.85	173	28944	20.400	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	386990	106.843	ug/l	100
59) 2-Hexanone	9.49	43	301777	106.224	ug/l	100
61) Tetrachloroethene	9.34	164	34692	21.364	ug/l	99
62) Toluene	8.78	91	171975	21.848	ug/l	98
64) Chlorobenzene	10.13	112	101564	21.439	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	37499	21.619	ug/l	96
66) Ethyl Benzene	10.25	91	188798	21.531	ug/l	99
67) m/p-Xylenes	10.36	106	139748	43.650	ug/l	98
68) o-Xylene	10.69	106	68352	21.712	ug/l	98
69) Styrene	10.71	104	115476	20.896	ug/l	98
70) Isopropylbenzene	11.02	105	181808	21.474	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	66281	21.377	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	58697m	21.968	ug/l	
73) Bromobenzene	11.25	156	44916	21.472	ug/l	99
74) n-propylbenzene	11.36	91	207792	21.180	ug/l	99
75) 2-Chlorotoluene	11.42	91	125519	21.330	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	152220	21.226	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	21309	19.771	ug/l	98
78) 4-Chlorotoluene	11.51	91	141091	21.110	ug/l	99
79) tert-butylbenzene	11.77	119	148059	21.356	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	151670	21.101	ug/l	100
81) sec-Butylbenzene	11.94	105	174431	21.177	ug/l	99
82) p-Isopropyltoluene	12.06	119	158498	21.154	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	77742	20.811	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	76521	20.560	ug/l	99
85) n-Butylbenzene	12.38	91	140690	20.521	ug/l	98
86) Hexachloroethane	12.59	117	25132	19.712	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	78975	21.002	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14805	20.548	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	54418	20.303	ug/l	98
90) Hexachlorobutadiene	13.78	225	28815	21.523	ug/l	98
91) Naphthalene	13.83	128	182931	20.846	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	56914	20.890	ug/l	98

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

