

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009256.D
 Acq On : 01 May 2019 14:17
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:25 AM

Quant Time: May 02 06:47:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:30:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31567	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	182031	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	159548	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	77549	29.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.50%
60) 4-Bromofluorobenzene	11.13	95	79289	28.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.53%
63) Toluene-d8	8.71	98	229940	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8032	4.827 ug/l	99
3) Chloromethane	1.32	50	11314	5.113 ug/l	100
4) Vinyl Chloride	1.40	62	11074	4.963 ug/l	97
5) Bromomethane	1.64	94	8317	6.571 ug/l	97
6) Chloroethane	1.72	64	7507	5.014 ug/l	92
7) Trichlorofluoromethane	1.93	101	14205	5.232 ug/l	97
8) Diethyl Ether	2.19	74	6630	5.255 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8572	5.044 ug/l	94
10) 1,1-Dichloroethene	2.37	96	8523	4.993 ug/l	96
11) Methyl Iodide	2.51	142	5691	3.306 ug/l	90
12) Methyl Acetate	2.77	43	18503	5.933 ug/l	97
13) Acrolein	2.29	56	13441	32.976 ug/l	99
14) Acrylonitrile	3.14	53	36269	26.343 ug/l	100
15) Acetone	2.44	58	10524	25.729 ug/l	98
16) Carbon Disulfide	2.57	76	21447	4.685 ug/l	99
17) Allyl chloride	2.73	41	20383	5.065 ug/l	97
18) Methylene Chloride	2.85	84	10859	5.339 ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	9066	5.037 ug/l	97
20) Diisopropyl ether	3.85	45	42137	5.265 ug/l	99
21) 1,1-Dichloroethane	3.70	63	20359	5.315 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	11257	5.190 ug/l	98
23) tert-Butyl Alcohol	3.05	59	15557	27.721 ug/l	# 100
24) Methyl tert-Butyl Ether	3.19	73	34562	5.313 ug/l	98
25) Chloroform	5.21	83	18380	5.192 ug/l	99
26) Cyclohexane	5.57	56	17690	4.847 ug/l	# 96
29) 1,1-Dichloropropene	5.81	75	13217	4.999 ug/l	98
30) 2-Butanone	4.68	43	53830	26.013 ug/l	99
31) 2,2-Dichloropropane	4.58	77	14820	5.135 ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	14591	5.254 ug/l	97
33) Carbon Tetrachloride	5.78	117	12093	5.122 ug/l	96
34) Benzene	6.14	78	41935	5.116 ug/l	97
35) Methacrylonitrile	5.04	41	10924	5.037 ug/l	92
36) 1,2-Dichloroethane	6.19	62	15763	5.338 ug/l	99
37) Trichloroethene	7.21	130	10320	5.374 ug/l	95
38) Methylcyclohexane	7.46	83	16484	5.100 ug/l	99
39) 1,2-Dichloropropane	7.51	63	11989	5.209 ug/l	96
40) Dibromomethane	7.66	93	6731	5.135 ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	13323	5.076	ug/l #	99
42) Vinyl Acetate	3.81	43	169834	24.761	ug/l	99
43) Ethyl Acetate	4.84	43	18401	4.806	ug/l	100
44) Isopropyl Acetate	6.45	43	31161	5.290	ug/l	100
45) 1,4-Dioxane	7.74	88	6307	107.701	ug/l	98
46) Methyl methacrylate	7.77	41	15129	5.081	ug/l	99
47) n-amyl Acetate	10.90	43	26201	4.981	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	14585	4.859	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	16859	5.045	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	10496	5.216	ug/l	97
51) Ethyl methacrylate	9.18	69	18406	5.036	ug/l	97
52) 1,3-Dichloropropane	9.37	76	18687	5.227	ug/l	98
53) Dibromochloromethane	9.58	129	9441	4.879	ug/l	100
54) 1,2-Dibromoethane	9.67	107	10550	5.160	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	47187	22.919	ug/l	99
56) Bromoform	10.85	173	7041	4.897	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	101737	26.078	ug/l	99
59) 2-Hexanone	9.49	43	78791	25.607	ug/l	100
61) Tetrachloroethene	9.34	164	9480	5.396	ug/l	93
62) Toluene	8.78	91	44093	5.145	ug/l	99
64) Chlorobenzene	10.14	112	26865	5.313	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	9560	5.225	ug/l	98
66) Ethyl Benzene	10.25	91	48378	5.117	ug/l	99
67) m/p-Xylenes	10.36	106	34719	10.084	ug/l	98
68) o-Xylene	10.69	106	17596	5.257	ug/l	96
69) Styrene	10.71	104	29386	4.997	ug/l	98
70) Isopropylbenzene	11.02	105	47354	5.191	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	17244	5.258	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	14856m	5.136	ug/l	
73) Bromobenzene	11.26	156	11547	5.145	ug/l	96
74) n-propylbenzene	11.36	91	52417	5.004	ug/l	99
75) 2-Chlorotoluene	11.42	91	32911	5.218	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	38948	5.084	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	5229	4.899	ug/l	92
78) 4-Chlorotoluene	11.51	91	36099	5.113	ug/l	98
79) tert-butylbenzene	11.77	119	37881	5.119	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	39092	5.110	ug/l	99
81) sec-Butylbenzene	11.94	105	44094	5.031	ug/l	100
82) p-Isopropyltoluene	12.06	119	39533	4.971	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	20740	5.330	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	20658	5.390	ug/l	97
85) n-Butylbenzene	12.38	91	34398	4.873	ug/l	98
86) Hexachloroethane	12.60	117	6348	4.701	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	20790	5.228	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	3830	5.059	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	14186	5.210	ug/l	99
90) Hexachlorobutadiene	13.78	225	7010	5.079	ug/l	98
91) Naphthalene	13.83	128	46903	5.029	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	14963	5.224	ug/l	98

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

