

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009254.D
 Acq On : 01 May 2019 12:40
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:21 AM

Quant Time: May 02 06:45:40 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	5.02	128	28360	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	175453	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	159364	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	72878	31.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.07%
60) 4-Bromofluorobenzene	11.13	95	82893	30.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.03%
63) Toluene-d8	8.71	98	223639	29.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	236956	158.495	ug/l 100
3) Chloromethane	1.32	50	323227	162.588	ug/l 99
4) Vinyl Chloride	1.41	62	316870	158.063	ug/l 98
5) Bromomethane	1.64	94	203926	179.341	ug/l 96
6) Chloroethane	1.70	64	206377	153.440	ug/l 99
7) Trichlorofluoromethane	1.92	101	382485	156.818	ug/l 100
8) Diethyl Ether	2.19	74	179418	158.295	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	238095	155.939	ug/l 100
10) 1,1-Dichloroethene	2.36	96	241288	157.339	ug/l 97
11) Methyl Iodide	2.50	142	312378	201.975	ug/l 100
12) Methyl Acetate	2.78	43	436398	155.762	ug/l 99
13) Acrolein	2.29	56	307560	839.889	ug/l 99
14) Acrylonitrile	3.15	53	977206	790.014	ug/l 99
15) Acetone	2.45	58	272760	742.263	ug/l 96
16) Carbon Disulfide	2.56	76	677014	164.599	ug/l 99
17) Allyl chloride	2.72	41	585682	161.991	ug/l 95
18) Methylene Chloride	2.85	84	287892	157.549	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	258035	159.582	ug/l 96
20) Diisopropyl ether	3.86	45	1117825	155.452	ug/l 89
21) 1,1-Dichloroethane	3.70	63	547698	159.165	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	308112	158.127	ug/l 98
23) tert-Butyl Alcohol	3.07	59	419730	832.494	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	938662	160.618	ug/l 99
25) Chloroform	5.21	83	496766	156.194	ug/l 99
26) Cyclohexane	5.57	56	519113	158.328	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	386313	151.594	ug/l 99
30) 2-Butanone	4.68	43	1496967	750.516	ug/l 99
31) 2,2-Dichloropropane	4.58	77	426468	153.320	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	423263	158.130	ug/l 96
33) Carbon Tetrachloride	5.78	117	355350	156.163	ug/l 98
34) Benzene	6.14	78	1175964	148.835	ug/l 98
35) Methacrylonitrile	5.04	41	314342	150.372	ug/l 96
36) 1,2-Dichloroethane	6.19	62	420938	147.888	ug/l 99
37) Trichloroethene	7.21	130	286152	154.609	ug/l 94
38) Methylcyclohexane	7.46	83	476866	153.082	ug/l 99
39) 1,2-Dichloropropane	7.51	63	337657	152.219	ug/l 99
40) Dibromomethane	7.66	93	192946	152.709	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	402785	159.198	ug/l	98
42) Vinyl Acetate	3.82	43	4981047	753.443	ug/l	99
43) Ethyl Acetate	4.84	43	548130	148.540	ug/l	99
44) Isopropyl Acetate	6.45	43	899392	158.407	ug/l	99
45) 1,4-Dioxane	7.74	88	170630	3022.978	ug/l	99
46) Methyl methacrylate	7.77	41	453657	158.058	ug/l	99
47) n-amyl Acetate	10.90	43	834396	164.583	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	489126	169.059	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	519515	161.289	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	295120	152.151	ug/l	98
51) Ethyl methacrylate	9.18	69	570625	161.988	ug/l	99
52) 1,3-Dichloropropane	9.37	76	520211	150.979	ug/l	99
53) Dibromochloromethane	9.59	129	313454	168.079	ug/l	99
54) 1,2-Dibromoethane	9.67	107	305158	154.852	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1472128	741.835	ug/l	100
56) Bromoform	10.86	173	250293	180.598	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	2907507	746.123	ug/l	99
59) 2-Hexanone	9.49	43	2246432	730.929	ug/l	99
61) Tetrachloroethene	9.34	164	248051	141.348	ug/l	99
62) Toluene	8.79	91	1246526	145.612	ug/l	100
64) Chlorobenzene	10.14	112	765545	151.586	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	286863	156.954	ug/l	98
66) Ethyl Benzene	10.25	91	1412491	149.562	ug/l	100
67) m/p-Xylenes	10.36	106	1040311	302.491	ug/l	99
68) o-Xylene	10.70	106	511502	152.985	ug/l	98
69) Styrene	10.71	104	918091	156.290	ug/l	100
70) Isopropylbenzene	11.02	105	1361331	149.400	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	498371	152.148	ug/l	99
72) 1,1,2,3-Trichloropropane	11.30	75	417329m	144.458	ug/l	
73) Bromobenzene	11.26	156	342229	152.665	ug/l	98
74) n-propylbenzene	11.36	91	1621476	154.979	ug/l	99
75) 2-Chlorotoluene	11.42	91	954077	151.434	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	1179111	154.095	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	193855	181.839	ug/l	95
78) 4-Chlorotoluene	11.51	91	1115512	158.181	ug/l	99
79) tert-butylbenzene	11.77	119	1142246	154.537	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1179286	154.329	ug/l	99
81) sec-Butylbenzene	11.94	105	1366381	156.067	ug/l	100
82) p-Isopropyltoluene	12.06	119	1246236	156.872	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	616813	158.708	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	614875	160.619	ug/l	99
85) n-Butylbenzene	12.38	91	1187964	168.482	ug/l	100
86) Hexachloroethane	12.60	117	221776	164.441	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	613644	154.499	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	117764	155.746	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	453183	166.633	ug/l	98
90) Hexachlorobutadiene	13.78	225	221691	160.795	ug/l	99
91) Naphthalene	13.83	128	1441298	154.710	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	447559	156.428	ug/l	99

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

