

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013153.D
 Acq On : 21 Oct 2019 14:09
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:30:24 PM

Quant Time: Oct 22 01:53:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:38:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	24812	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	151898	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	139544	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	60578	31.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.60%
60) 4-Bromofluorobenzene	11.14	95	75874	31.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.57%
63) Toluene-d8	8.71	98	182010	28.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	272243	159.666	ug/l 98
3) Chloromethane	1.31	50	243864	149.461	ug/l 95
4) Vinyl Chloride	1.40	62	252012	152.888	ug/l 97
5) Bromomethane	1.62	94	123509	157.736	ug/l 100
6) Chloroethane	1.70	64	147423	146.386	ug/l 100
7) Trichlorofluoromethane	1.91	101	392580	159.776	ug/l 98
8) Diethyl Ether	2.18	74	135001	152.869	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	239632	156.281	ug/l 97
10) 1,1-Dichloroethene	2.36	96	232516	154.256	ug/l 95
11) Methyl Iodide	2.50	142	332791	177.805	ug/l 99
12) Methyl Acetate	2.76	43	296015	141.650	ug/l 97
13) Acrolein	2.28	56	237994	778.950	ug/l 98
14) Acrylonitrile	3.14	53	624285	716.581	ug/l 99
15) Acetone	2.44	58	186719	628.237	ug/l 96
16) Carbon Disulfide	2.56	76	645021	158.555	ug/l 98
17) Allyl chloride	2.72	41	373026	147.453	ug/l 99
18) Methylene Chloride	2.84	84	256871	149.907	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	248301	154.381	ug/l 96
20) Diisopropyl ether	3.84	45	708194	146.316	ug/l 97
21) 1,1-Dichloroethane	3.69	63	433402	153.758	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	282241	152.043	ug/l 99
23) tert-Butyl Alcohol	3.05	59	312503	704.266	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	807735	157.606	ug/l 97
25) Chloroform	5.20	83	451994	154.623	ug/l 99
26) Cyclohexane	5.57	56	384642	151.263	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	349202	148.729	ug/l # 86
30) 2-Butanone	4.66	43	879329	655.089	ug/l 98
31) 2,2-Dichloropropane	4.57	77	396296	150.113	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	419890	152.537	ug/l 99
33) Carbon Tetrachloride	5.78	117	369683	156.584	ug/l 97
34) Benzene	6.13	78	998494	144.916	ug/l 98
35) Methacrylonitrile	5.03	41	190392	143.215	ug/l 97
36) 1,2-Dichloroethane	6.18	62	368235	146.287	ug/l 99
37) Trichloroethene	7.20	130	278168	149.731	ug/l 98
38) Methylcyclohexane	7.46	83	433563	151.804	ug/l 99
39) 1,2-Dichloropropane	7.51	63	247327	143.978	ug/l 100
40) Dibromomethane	7.65	93	177849	149.738	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	369424	156.722	ug/l	98
42) Vinyl Acetate	3.81	43	3145458	705.773	ug/l	100
43) Ethyl Acetate	4.83	43	332525	136.488	ug/l	99
44) Isopropyl Acetate	6.43	43	566060	143.676	ug/l	98
45) 1,4-Dioxane	7.73	88	136608	2772.596	ug/l	98
46) Methyl methacrylate	7.76	41	281054	144.745	ug/l	95
47) n-amyl Acetate	10.89	43	507651	151.199	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	422443	162.142	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	443789	154.994	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	259439	145.600	ug/l	98
51) Ethyl methacrylate	9.17	69	434362	155.208	ug/l	98
52) 1,3-Dichloropropane	9.37	76	435032	145.874	ug/l	100
53) Dibromochloromethane	9.58	129	300976	163.434	ug/l	99
54) 1,2-Dibromoethane	9.67	107	279095	149.036	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	891678	740.595	ug/l	99
56) Bromoform	10.85	173	225803	175.742	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	1709323	679.704	ug/l	100
59) 2-Hexanone	9.49	43	1314968	671.373	ug/l	100
61) Tetrachloroethene	9.33	164	249885	139.494	ug/l	98
62) Toluene	8.78	91	1089539	143.613	ug/l	100
64) Chlorobenzene	10.14	112	706841	146.502	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	273079	153.178	ug/l	99
66) Ethyl Benzene	10.25	91	1285934	148.061	ug/l	98
67) m/p-Xylenes	10.35	106	971064	296.603	ug/l	99
68) o-Xylene	10.70	106	466813	147.908	ug/l	95
69) Styrene	10.71	104	832235	151.848	ug/l	99
70) Isopropylbenzene	11.01	105	1269627	148.561	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	382887	140.189	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	363596m	153.723	ug/l	
73) Bromobenzene	11.25	156	308415	151.656	ug/l	99
74) n-propylbenzene	11.35	91	1462932	154.391	ug/l	100
75) 2-Chlorotoluene	11.42	91	894753	152.475	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	1109843	153.645	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	148519	165.686	ug/l	92
78) 4-Chlorotoluene	11.51	91	1043400	154.904	ug/l	99
79) tert-butylbenzene	11.76	119	1078046	158.771	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	1114865	155.193	ug/l	98
81) sec-Butylbenzene	11.94	105	1281524	155.580	ug/l	99
82) p-Isopropyltoluene	12.06	119	1182216	157.108	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	582017	158.549	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	571144	154.152	ug/l	98
85) n-Butylbenzene	12.39	91	1059714	165.866	ug/l	98
86) Hexachloroethane	12.59	117	222327	170.922	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	554196	152.045	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	97285	150.680	ug/l	93
89) 1,2,4-Trichlorobenzene	13.64	180	365647	161.704	ug/l	99
90) Hexachlorobutadiene	13.78	225	173210	159.291	ug/l	98
91) Naphthalene	13.83	128	1169404	153.219	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	358035	157.023	ug/l	97

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

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