

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX043020\
 Data File : VX015989.D
 Acq On : 30 Apr 2020 11:17
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 3:10:12 PM

Quant Time: Apr 30 12:44:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:23:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	49114	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	274876	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	258216	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	113325	29.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.67%
60) 4-Bromofluorobenzene	11.12	95	129097	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	8.70	98	326571	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	186449	64.314	ug/l 98
3) Chloromethane	1.31	50	175676	55.480	ug/l 99
4) Vinyl Chloride	1.39	62	194255	60.151	ug/l 99
5) Bromomethane	1.62	94	127013	69.917	ug/l 100
6) Chloroethane	1.71	64	126871	61.937	ug/l 98
7) Trichlorofluoromethane	1.92	101	280341	61.002	ug/l 100
8) Diethyl Ether	2.17	74	107276	60.484	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	141394	52.455	ug/l 99
10) 1,1-Dichloroethene	2.36	96	140247	51.361	ug/l 96
11) Methyl Iodide	2.49	142	199276	54.956	ug/l 99
12) Methyl Acetate	2.75	43	255002	58.548	ug/l 99
13) Acrolein	2.27	56	103866	227.150	ug/l 99
14) Acrylonitrile	3.12	53	457945	266.742	ug/l 99
15) Acetone	2.42	58	121395	274.956	ug/l 97
16) Carbon Disulfide	2.55	76	431174	53.241	ug/l 99
17) Allyl chloride	2.71	41	267266	46.584	ug/l 98
18) Methylene Chloride	2.84	84	159171	52.090	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	154575	52.246	ug/l 96
20) Diisopropyl ether	3.82	45	506759	48.423	ug/l 93
21) 1,1-Dichloroethane	3.67	63	284015	51.169	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	176140	52.064	ug/l 98
23) tert-Butyl Alcohol	3.01	59	224618	267.055	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	511089	51.339	ug/l 99
25) Chloroform	5.18	83	288256	51.917	ug/l 96
26) Cyclohexane	5.55	56	262902	50.058	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	220306	52.558	ug/l 98
30) 2-Butanone	4.64	43	655572	262.569	ug/l 99
31) 2,2-Dichloropropane	4.56	77	262854	52.147	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	265296	52.092	ug/l 99
33) Carbon Tetrachloride	5.76	117	239477	51.890	ug/l 99
34) Benzene	6.12	78	643128	53.022	ug/l 98
35) Methacrylonitrile	5.01	41	137506	49.735	ug/l 97
36) 1,2-Dichloroethane	6.17	62	243178	52.478	ug/l 99
37) Trichloroethene	7.19	130	226928	59.340	ug/l 98
38) Methylcyclohexane	7.44	83	267751	52.330	ug/l 99
39) 1,2-Dichloropropane	7.49	63	164091	51.296	ug/l 97
40) Dibromomethane	7.64	93	113178	52.123	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	235373	51.192	ug/l	98
42) Vinyl Acetate	3.79	43	2160476	244.279	ug/l	100
43) Ethyl Acetate	4.79	43	253437	47.109	ug/l	99
44) Isopropyl Acetate	6.42	43	419253	49.659	ug/l	100
45) 1,4-Dioxane	7.71	88	88596	1087.366	ug/l	98
46) Methyl methacrylate	7.75	41	200041	48.437	ug/l	97
47) n-amyl Acetate	10.88	43	369081	50.303	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	275431	51.812	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	282108	51.345	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	158822	51.612	ug/l	99
51) Ethyl methacrylate	9.16	69	266270	51.239	ug/l	98
52) 1,3-Dichloropropane	9.35	76	277420	52.134	ug/l	100
53) Dibromochloromethane	9.57	129	185605	50.336	ug/l	100
54) 1,2-Dibromoethane	9.65	107	177481	53.203	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	686708	270.389	ug/l	100
56) Bromoform	10.84	173	139222	47.480	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	1283644	261.347	ug/l	100
59) 2-Hexanone	9.48	43	992586	263.823	ug/l	100
61) Tetrachloroethene	9.32	164	256070	63.530	ug/l	97
62) Toluene	8.77	91	691563	52.327	ug/l	100
64) Chlorobenzene	10.12	112	440098	51.804	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	167951	49.673	ug/l	99
66) Ethyl Benzene	10.24	91	789467	52.496	ug/l	100
67) m/p-Xylenes	10.34	106	603606	105.447	ug/l	99
68) o-Xylene	10.68	106	290474	52.330	ug/l	99
69) Styrene	10.70	104	500363	52.145	ug/l	100
70) Isopropylbenzene	11.01	105	788712	53.215	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	147304	37.589	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	240000m	53.229	ug/l	
73) Bromobenzene	11.24	156	197932	50.651	ug/l	99
74) n-propylbenzene	11.35	91	920694	53.992	ug/l	99
75) 2-Chlorotoluene	11.40	91	534782	52.179	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	670683	53.069	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	101916	52.702	ug/l	99
78) 4-Chlorotoluene	11.49	91	631830	52.922	ug/l	99
79) tert-butylbenzene	11.76	119	575869	48.218	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	666531	52.362	ug/l	100
81) sec-Butylbenzene	11.93	105	776399	53.404	ug/l	100
82) p-Isopropyltoluene	12.05	119	720240	52.794	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	351156	50.022	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	354212	50.717	ug/l	99
85) n-Butylbenzene	12.37	91	652464	53.440	ug/l	100
86) Hexachloroethane	12.58	117	124150	48.874	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	343205	50.283	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	60572	49.836	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	251143	46.859	ug/l	99
90) Hexachlorobutadiene	13.77	225	108553	40.279	ug/l	95
91) Naphthalene	13.82	128	808159	51.039	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	240899	45.992	ug/l	98

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

