

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031220\
 Data File : VX015233.D
 Acq On : 12 Mar 2020 13:23
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:41 AM

Quant Time: Mar 12 14:04:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 13:54:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	42993	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	257372	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	228153	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	87286	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	11.14	95	112652	31.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.67%
63) Toluene-d8	8.71	98	295441	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	333904	173.920	ug/l 97
3) Chloromethane	1.31	50	490775	197.697	ug/l 97
4) Vinyl Chloride	1.40	62	502548	188.098	ug/l 99
5) Bromomethane	1.63	94	323081	172.681	ug/l 96
6) Chloroethane	1.71	64	307435	171.781	ug/l 99
7) Trichlorofluoromethane	1.92	101	630451	162.135	ug/l 97
8) Diethyl Ether	2.18	74	282191	172.515	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	378962	168.570	ug/l 99
10) 1,1-Dichloroethene	2.36	96	391333	173.150	ug/l 98
11) Methyl Iodide	2.50	142	489518	178.256	ug/l 98
12) Methyl Acetate	2.76	43	495181	176.071	ug/l 99
13) Acrolein	2.28	56	365388	653.259	ug/l 98
14) Acrylonitrile	3.13	53	1160128	913.405	ug/l 99
15) Acetone	2.44	58	299736	659.427	ug/l 99
16) Carbon Disulfide	2.56	76	1141365	187.825	ug/l 100
17) Allyl chloride	2.72	41	755873	192.262	ug/l 99
18) Methylene Chloride	2.84	84	447588	171.885	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	432830	174.357	ug/l 96
20) Diisopropyl ether	3.84	45	1441147	179.491	ug/l 95
21) 1,1-Dichloroethane	3.69	63	781518	177.563	ug/l 100
22) cis-1,2-Dichloroethene	4.59	96	455620	160.389	ug/l 97
23) tert-Butyl Alcohol	3.04	59	458794m	911.254	ug/l
24) Methyl tert-Butyl Ether	3.19	73	1302036	173.160	ug/l 99
25) Chloroform	5.20	83	694680	156.514	ug/l 100
26) Cyclohexane	5.57	56	679276	172.681	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	549377	150.913	ug/l 99
30) 2-Butanone	4.66	43	1461875	695.721	ug/l 99
31) 2,2-Dichloropropane	4.57	77	583587	145.994	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	602968	145.854	ug/l 99
33) Carbon Tetrachloride	5.78	117	532084	147.030	ug/l 96
34) Benzene	6.14	78	1654643	150.631	ug/l 100
35) Methacrylonitrile	5.03	41	329237	153.602	ug/l 98
36) 1,2-Dichloroethane	6.18	62	546843	140.642	ug/l 99
37) Trichloroethene	7.21	130	493131	159.890	ug/l 97
38) Methylcyclohexane	7.46	83	744144	164.915	ug/l 100
39) 1,2-Dichloropropane	7.51	63	469720	166.126	ug/l 96
40) Dibromomethane	7.65	93	295023	156.260	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	603515	161.818	ug/l	96
42) Vinyl Acetate	3.81	43	6233883	842.879	ug/l	99
43) Ethyl Acetate	4.82	43	578954	152.279	ug/l	99
44) Isopropyl Acetate	6.43	43	983084	153.815	ug/l	99
45) 1,4-Dioxane	7.73	88	214791	3637.014	ug/l	99
46) Methyl methacrylate	7.76	41	530340	167.728	ug/l	97
47) n-amyl Acetate	10.89	43	939387	169.660	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	655800	158.488	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	720838	158.235	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	415516	147.719	ug/l	98
51) Ethyl methacrylate	9.17	69	694196	159.898	ug/l	99
52) 1,3-Dichloropropane	9.37	76	701225	147.363	ug/l	100
53) Dibromochloromethane	9.58	129	473574	155.720	ug/l	95
54) 1,2-Dibromoethane	9.67	107	438173	146.720	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	1708018	738.557	ug/l	100
56) Bromoform	10.85	173	380572	159.635	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	2939309	786.092	ug/l	99
59) 2-Hexanone	9.49	43	2244271	768.186	ug/l	99
61) Tetrachloroethene	9.33	164	455301	148.578	ug/l	97
62) Toluene	8.78	91	1789567	153.135	ug/l	100
64) Chlorobenzene	10.14	112	1148076	153.915	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	430451	155.794	ug/l	99
66) Ethyl Benzene	10.25	91	2020017	156.916	ug/l	100
67) m/p-Xylenes	10.35	106	1561308	314.526	ug/l	98
68) o-Xylene	10.70	106	749225	155.988	ug/l	98
69) Styrene	10.71	104	1335695	162.827	ug/l	100
70) Isopropylbenzene	11.01	105	1997373	156.555	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	684131	166.543	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	540541m	158.638	ug/l	
73) Bromobenzene	11.25	156	575650	166.983	ug/l	98
74) n-propylbenzene	11.35	91	2519321	173.497	ug/l	100
75) 2-Chlorotoluene	11.42	91	1462053	170.381	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	1784723	166.916	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	246206	179.192	ug/l	92
78) 4-Chlorotoluene	11.51	91	1680984	169.353	ug/l	99
79) tert-butylbenzene	11.76	119	1734922	167.947	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	1846353	173.691	ug/l	100
81) sec-Butylbenzene	11.94	105	2133346	172.447	ug/l	100
82) p-Isopropyltoluene	12.06	119	1920330	167.087	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	1031263	170.648	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	996486	163.747	ug/l	100
85) n-Butylbenzene	12.39	91	1697407	169.721	ug/l	99
86) Hexachloroethane	12.59	117	348879	167.940	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	950381	158.041	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	141737	158.430	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	759625	175.657	ug/l	100
90) Hexachlorobutadiene	13.78	225	375821	174.989	ug/l	100
91) Naphthalene	13.83	128	2113206	172.603	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	739193	172.166	ug/l	100

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

