

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014612.D
 Acq On : 15 Jan 2020 11:57
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:06 AM

Quant Time: Jan 15 12:25:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:07:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	75708	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	421932	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	390012	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	159534	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	11.13	95	186337	29.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.63%
63) Toluene-d8	8.71	98	520932	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	543663	142.159	ug/l 99
3) Chloromethane	1.32	50	587883	109.067	ug/l 97
4) Vinyl Chloride	1.40	62	670635	121.372	ug/l 99
5) Bromomethane	1.63	94	432731	107.133	ug/l 98
6) Chloroethane	1.71	64	362464	106.200	ug/l 100
7) Trichlorofluoromethane	1.92	101	708529	103.049	ug/l 100
8) Diethyl Ether	2.18	74	315356	99.785	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	420290	102.493	ug/l 99
10) 1,1-Dichloroethene	2.36	96	427704	100.886	ug/l 94
11) Methyl Iodide	2.50	142	641005	117.453	ug/l 99
12) Methyl Acetate	2.76	43	790856	120.500	ug/l 100
13) Acrolein	2.28	56	391322	491.598	ug/l 99
14) Acrylonitrile	3.13	53	1322153	515.318	ug/l 100
15) Acetone	2.44	58	435229	577.449	ug/l 90
16) Carbon Disulfide	2.56	76	1205467	104.963	ug/l 99
17) Allyl chloride	2.72	41	805889	105.787	ug/l 96
18) Methylene Chloride	2.85	84	488596	94.056	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	460961	99.293	ug/l 96
20) Diisopropyl ether	3.84	45	1577733	100.932	ug/l 98
21) 1,1-Dichloroethane	3.69	63	846781	99.812	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	529891	98.461	ug/l 96
23) tert-Butyl Alcohol	3.03	59	513265	510.029	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	1440924	100.617	ug/l 100
25) Chloroform	5.20	83	815140	100.780	ug/l 98
26) Cyclohexane	5.58	56	785226	103.798	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	633804	103.993	ug/l 99
30) 2-Butanone	4.66	43	1970083	548.412	ug/l 99
31) 2,2-Dichloropropane	4.58	77	684798	121.468	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	697301	103.439	ug/l 99
33) Carbon Tetrachloride	5.78	117	605087	105.591	ug/l 99
34) Benzene	6.14	78	1933316	101.732	ug/l 99
35) Methacrylonitrile	5.03	41	405996	105.082	ug/l 98
36) 1,2-Dichloroethane	6.18	62	659299	99.873	ug/l 99
37) Trichloroethene	7.21	130	531472	102.778	ug/l 95
38) Methylcyclohexane	7.46	83	796578	109.571	ug/l 98
39) 1,2-Dichloropropane	7.51	63	502008	101.707	ug/l 92
40) Dibromomethane	7.65	93	323844	102.706	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	651769	106.754	ug/l	99
42) Vinyl Acetate	3.80	43	6217507	490.223	ug/l	99
43) Ethyl Acetate	4.82	43	719749	104.416	ug/l	100
44) Isopropyl Acetate	6.43	43	1189750	103.054	ug/l	99
45) 1,4-Dioxane	7.73	88	215198	1990.477	ug/l	99
46) Methyl methacrylate	7.76	41	591484	105.476	ug/l	98
47) n-amyl Acetate	10.89	43	1053415	102.618	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	742953	111.494	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	824202	109.983	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	489662	100.625	ug/l	98
51) Ethyl methacrylate	9.17	69	809835	104.625	ug/l	99
52) 1,3-Dichloropropane	9.37	76	837449	101.292	ug/l	100
53) Dibromochloromethane	9.58	129	529139	108.745	ug/l	99
54) 1,2-Dibromoethane	9.67	107	515188	102.827	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	1780257	521.752	ug/l	100
56) Bromoform	10.85	173	415499	109.500	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	3691392	505.857	ug/l	99
59) 2-Hexanone	9.49	43	2891470	522.126	ug/l	99
61) Tetrachloroethene	9.33	164	565059	109.518	ug/l	99
62) Toluene	8.78	91	2068439	99.717	ug/l	99
64) Chlorobenzene	10.14	112	1300938	100.106	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	482920	100.357	ug/l	98
66) Ethyl Benzene	10.25	91	2303088	101.456	ug/l	98
67) m/p-Xylenes	10.35	106	1772414	204.251	ug/l	100
68) o-Xylene	10.70	106	851268	99.024	ug/l	99
69) Styrene	10.71	104	1494553	102.234	ug/l	99
70) Isopropylbenzene	11.01	105	2248680	101.224	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	756058	95.969	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	612525m	87.348	ug/l	
73) Bromobenzene	11.25	156	589509	99.407	ug/l	100
74) n-propylbenzene	11.35	91	2610284	103.596	ug/l	98
75) 2-Chlorotoluene	11.42	91	1528139	100.373	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	1891577	100.375	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	278729	120.364	ug/l	88
78) 4-Chlorotoluene	11.51	91	1763116	101.345	ug/l	98
79) tert-butylbenzene	11.76	119	1778999	97.939	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	1884975	100.034	ug/l	99
81) sec-Butylbenzene	11.94	105	2190339	101.378	ug/l	98
82) p-Isopropyltoluene	12.06	119	2021872	103.699	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	1055429	102.108	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	1062842	103.263	ug/l	98
85) n-Butylbenzene	12.38	91	1832432	111.780	ug/l	100
86) Hexachloroethane	12.59	117	374272	105.815	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	1052216	100.222	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	165417	105.345	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	726317	108.243	ug/l	98
90) Hexachlorobutadiene	13.77	225	354302	111.085	ug/l	98
91) Naphthalene	13.83	128	2228473	110.494	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	745986	109.608	ug/l	99

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

