

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008162.D
 Acq On : 18 Mar 2019 12:07
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:37:06 AM

Quant Time: Mar 18 12:32:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 11:50:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	55508	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	315766	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	273875	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	138657	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	11.13	95	139090	30.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.67%
63) Toluene-d8	8.71	98	394326	29.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	355917	146.858	ug/l 97
3) Chloromethane	1.32	50	423240	141.199	ug/l 96
4) Vinyl Chloride	1.41	62	434593	139.951	ug/l 97
5) Bromomethane	1.64	94	391214	190.559	ug/l 99
6) Chloroethane	1.70	64	285850	152.802	ug/l 94
7) Trichlorofluoromethane	1.92	101	539909	142.805	ug/l 98
8) Diethyl Ether	2.19	74	315074	144.457	ug/l 84
9) 1,1,2-Trichlorotrifluoroet	2.38	101	395393	146.664	ug/l 92
10) 1,1-Dichloroethene	2.37	96	384634	150.609	ug/l # 82
11) Methyl Iodide	2.51	142	528036	175.053	ug/l 97
12) Methyl Acetate	2.78	43	637814	150.060	ug/l 94
13) Acrolein	2.29	56	443044	737.540	ug/l 97
14) Acrylonitrile	3.15	53	1365351	732.240	ug/l 99
15) Acetone	2.45	58	407616	619.730	ug/l 93
16) Carbon Disulfide	2.57	76	1239001	153.991	ug/l 100
17) Allyl chloride	2.73	41	866849	160.281	ug/l 92
18) Methylene Chloride	2.85	84	434364	144.618	ug/l 88
19) trans-1,2-Dichloroethene	3.17	96	409588	149.258	ug/l 90
20) Diisopropyl ether	3.86	45	1619223	148.840	ug/l # 96
21) 1,1-Dichloroethane	3.70	63	839430	150.157	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	468238	149.498	ug/l # 81
23) tert-Butyl Alcohol	3.07	59	517910	752.480	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	1396328	151.348	ug/l 98
25) Chloroform	5.21	83	775001	145.009	ug/l 97
26) Cyclohexane	5.58	56	803636	154.709	ug/l # 85
29) 1,1-Dichloropropene	5.80	75	614989	152.618	ug/l 93
30) 2-Butanone	4.68	43	2041342	669.835	ug/l 94
31) 2,2-Dichloropropane	4.59	77	636167	158.045	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	661175	153.126	ug/l 95
33) Carbon Tetrachloride	5.79	117	562006	159.389	ug/l 97
34) Benzene	6.14	78	1809397	147.440	ug/l # 96
35) Methacrylonitrile	5.05	41	415818	149.629	ug/l 93
36) 1,2-Dichloroethane	6.20	62	655041	145.098	ug/l 96
37) Trichloroethene	7.21	130	434533	150.376	ug/l 83
38) Methylcyclohexane	7.46	83	754940	155.246	ug/l 90
39) 1,2-Dichloropropane	7.51	63	498625	149.424	ug/l 99
40) Dibromomethane	7.66	93	300418	147.286	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	602743	153.779	ug/l	99
42) Vinyl Acetate	3.82	43	7286968	760.578	ug/l	95
43) Ethyl Acetate	4.84	43	751847	144.109	ug/l #	83
44) Isopropyl Acetate	6.45	43	1210838	156.214	ug/l	98
45) 1,4-Dioxane	7.74	88	218362	2958.982	ug/l #	86
46) Methyl methacrylate	7.77	41	633076	153.851	ug/l	87
47) n-amyl Acetate	10.90	43	1069388	159.217	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	708111	170.207	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	763635	163.299	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	431434	146.974	ug/l	97
51) Ethyl methacrylate	9.18	69	730317	155.767	ug/l	92
52) 1,3-Dichloropropane	9.37	76	763517	142.955	ug/l	99
53) Dibromochloromethane	9.59	129	440762	157.265	ug/l	99
54) 1,2-Dibromoethane	9.67	107	452140	143.815	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	2716992	776.611	ug/l	95
56) Bromoform	10.86	173	327239	164.658	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	3796126	728.150	ug/l	97
59) 2-Hexanone	9.49	43	2973161	699.877	ug/l	97
61) Tetrachloroethene	9.34	164	397744	147.450	ug/l	97
62) Toluene	8.79	91	1873283	148.893	ug/l	99
64) Chlorobenzene	10.14	112	1111442	147.663	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	402798	155.840	ug/l	98
66) Ethyl Benzene	10.25	91	2038678	153.976	ug/l	96
67) m/p-Xylenes	10.36	106	1521404	310.841	ug/l	92
68) o-Xylene	10.70	106	729484	154.442	ug/l	91
69) Styrene	10.71	104	1212260	158.070	ug/l	96
70) Isopropylbenzene	11.02	105	1945039	152.643	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	675625	145.398	ug/l	97
72) 1,2,3-Trichloropropane	11.30	75	558601m	137.315	ug/l	
73) Bromobenzene	11.26	156	455583	151.533	ug/l	79
74) n-propylbenzene	11.36	91	2325906	156.524	ug/l	95
75) 2-Chlorotoluene	11.42	91	1341812	150.262	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	1638810	155.729	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	239589	180.285	ug/l	88
78) 4-Chlorotoluene	11.51	91	1593651	157.535	ug/l	91
79) tert-butylbenzene	12.07	119	1682610	159.761	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	1650318	155.886	ug/l	95
81) sec-Butylbenzene	11.94	105	1946864	156.000	ug/l	96
82) p-Isopropyltoluene	12.07	119	1682610	159.761	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	838783	154.912	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	839666	159.930	ug/l	96
85) n-Butylbenzene	12.39	91	1676943	175.630	ug/l	97
86) Hexachloroethane	12.60	117	304531	171.065	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	844771	156.903	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	160930	165.731	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	578834	171.918	ug/l	99
90) Hexachlorobutadiene	13.78	225	282409	162.854	ug/l	98
91) Naphthalene	13.83	128	1889938	170.961	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	571967	169.710	ug/l	98

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

