

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\
 Data File : VX001960.D
 Acq On : 25 May 2018 00:19
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 5/29/2018 4:39:19 PM

Quant Time: May 25 02:13:29 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 01:52:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	65974	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	384768	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	356673	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	159017	32.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.27%
60) 4-Bromofluorobenzene	11.15	95	190660	33.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	111.33%
63) Toluene-d8	8.72	98	470118	29.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	517227	165.353	ug/l 100
3) Chloromethane	1.32	50	610672	171.659	ug/l 99
4) Vinyl Chloride	1.40	62	620725	168.766	ug/l 100
5) Bromomethane	1.64	94	318406	175.933	ug/l 100
6) Chloroethane	1.70	64	349572	145.770	ug/l 97
7) Trichlorofluoromethane	1.92	101	917532	170.593	ug/l 100
8) Diethyl Ether	2.19	74	350160	154.346	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	497295	168.411	ug/l 98
10) 1,1-Dichloroethene	2.37	96	492291	162.730	ug/l 95
11) Methyl Iodide	2.51	142	850494	190.108	ug/l 98
12) Methyl Acetate	2.79	43	800362	157.523	ug/l 98
13) Acrolein	2.30	56	329994	595.002	ug/l 99
14) Acrylonitrile	3.16	53	1648382	804.737	ug/l 100
15) Acetone	2.46	58	431092	783.877	ug/l 99
16) Carbon Disulfide	2.56	76	1417149	182.571	ug/l 100
17) Allyl chloride	2.73	41	980369	166.326	ug/l 98
18) Methylene Chloride	2.86	84	549700	155.385	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	523521	160.297	ug/l 99
20) Diisopropyl ether	3.89	45	1917838	173.182	ug/l 98
21) 1,1-Dichloroethane	3.70	63	1022612	163.974	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	624502	167.670	ug/l # 75
23) tert-Butyl Alcohol	3.11	59	877416	925.772	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	1891302	169.229	ug/l 98
25) Chloroform	5.23	83	1093331	169.471	ug/l 100
26) Cyclohexane	5.57	56	942246	196.528	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	794268	164.541	ug/l 99
30) 2-Butanone	4.73	43	2734998	844.282	ug/l 99
31) 2,2-Dichloropropane	4.59	77	653474	155.157	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	1023381	165.867	ug/l 99
33) Carbon Tetrachloride	5.79	117	931844	169.456	ug/l 96
34) Benzene	6.15	78	2368705	154.873	ug/l 99
35) Methacrylonitrile	5.08	41	605005	171.874	ug/l 98
36) 1,2-Dichloroethane	6.21	62	933000	154.865	ug/l 100
37) Trichloroethene	7.22	130	676186	151.239	ug/l 95
38) Methylcyclohexane	7.46	83	914090	173.753	ug/l 100
39) 1,2-Dichloropropane	7.52	63	635418	162.732	ug/l 96
40) Dibromomethane	7.67	93	433435	157.397	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	901894	169.833	ug/l	97
42) Vinyl Acetate	3.84	43	8388572	787.081	ug/l	99
43) Ethyl Acetate	4.88	43	1063495	170.739	ug/l	97
44) Isopropyl Acetate	6.48	43	1803114	184.575	ug/l	99
45) 1,4-Dioxane	7.77	88	345815	3179.360	ug/l #	89
46) Methyl methacrylate	7.79	41	913364	176.460	ug/l	98
47) n-amyl Acetate	10.91	43	1708871	199.592	ug/l #	91
48) t-1,3-Dichloropropene	8.45	75	1020840	173.139	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	1008010	189.352	ug/l	99
50) 1,1,2-Trichloroethane	9.23	97	632256	157.409	ug/l	98
51) Ethyl methacrylate	9.19	69	1099749	179.634	ug/l	98
52) 1,3-Dichloropropane	9.38	76	1051630	157.193	ug/l	99
53) Dibromochloromethane	9.59	129	787335	180.564	ug/l	100
54) 1,2-Dibromoethane	9.68	107	684426	160.511	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	2512622	790.650	ug/l	99
56) Bromoform	10.87	173	738050	203.052	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	5439981	825.085	ug/l	97
59) 2-Hexanone	9.51	43	4296542	864.807	ug/l	98
61) Tetrachloroethene	9.34	164	769440	149.921	ug/l	99
62) Toluene	8.79	91	2643523	155.372	ug/l	100
64) Chlorobenzene	10.15	112	1758964	158.470	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	708303	165.297	ug/l	100
66) Ethyl Benzene	10.26	91	3010619	167.860	ug/l	100
67) m/p-Xylenes	10.37	106	2331828	330.471	ug/l	98
68) o-Xylene	10.71	106	1170215	166.443	ug/l	98
69) Styrene	10.72	104	2010307	173.390	ug/l	99
70) Isopropylbenzene	11.02	105	3124262	171.980	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	1009499	167.664	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	1004869m	169.113	ug/l	
73) Bromobenzene	11.26	156	876377	162.969	ug/l	97
74) n-propylbenzene	11.37	91	3549288	177.219	ug/l	98
75) 2-Chlorotoluene	11.43	91	2182203	174.321	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	2690185	175.634	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	345735	210.080	ug/l	96
78) 4-Chlorotoluene	11.52	91	2535791	178.531	ug/l	99
79) tert-butylbenzene	12.07	119	2899640	179.925	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	2765972	177.449	ug/l	99
81) sec-Butylbenzene	11.95	105	3193949	179.500	ug/l	99
82) p-Isopropyltoluene	12.07	119	2899640	179.925	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	1590961	169.889	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1603756	170.762	ug/l	99
85) n-Butylbenzene	12.40	91	2543509	195.634	ug/l	99
86) Hexachloroethane	12.60	117	579426	212.423	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	1620758	167.202	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	289347	195.269	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	1208930	175.149	ug/l	100
90) Hexachlorobutadiene	13.79	225	628585	177.637	ug/l	99
91) Naphthalene	13.84	128	3564471	169.489	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	1220649	167.367	ug/l	99

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

