

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001622.D
 Acq On : 11 May 2018 00:49
 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

apatel
 5/14/2018 3:57:39 PM

Quant Time: May 11 07:13:42 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 06:59:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	56995	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	302132	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	266250	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	124553	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	11.15	95	129124	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	8.72	98	355738	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.19	85	293768	82.31	ug/l	99
3) Chloromethane	1.32	50	362789	106.06	ug/l	98
4) Vinyl Chloride	1.40	62	363389	101.15	ug/l	98
5) Bromomethane	1.64	94	157089	59.78	ug/l	98
6) Chloroethane	1.71	64	240055	106.76	ug/l	94
7) Trichlorofluoromethane	1.92	101	477200	81.74	ug/l	100
8) Diethyl Ether	2.19	74	238931	112.98	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	255565	76.83	ug/l	98
10) 1,1-Dichloroethene	2.37	96	293226	95.64	ug/l	98
11) Methyl Iodide	2.51	142	491519	126.68	ug/l	99
12) Methyl Acetate	2.78	43	533675	126.15	ug/l	100
13) Acrolein	2.30	56	378820	771.92	ug/l	100
14) Acrylonitrile	3.16	53	1061975	630.27	ug/l	100
15) Acetone	2.46	58	283234	559.17	ug/l	95
16) Carbon Disulfide	2.56	76	779991	97.21	ug/l	100
17) Allyl chloride	2.73	41	598310	108.99	ug/l	95
18) Methylene Chloride	2.85	84	356966	105.85	ug/l	97
19) trans-1,2-Dichloroethene	3.16	96	326430	98.92	ug/l	98
20) Diisopropyl ether	3.88	45	1179587	110.25	ug/l	99
21) 1,1-Dichloroethane	3.70	63	618398	106.89	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	384918	104.80	ug/l	96
23) tert-Butyl Alcohol	3.10	59	488847	696.27	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	1138972	107.50	ug/l	99
25) Chloroform	5.22	83	652002	103.89	ug/l	98
26) Cyclohexane	5.57	56	413635	81.06	ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	420267	95.13	ug/l	99
30) 2-Butanone	4.72	43	1485955	627.46	ug/l	99
31) 2,2-Dichloropropane	4.59	77	369674	80.20	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	546152	101.44	ug/l	99
33) Carbon Tetrachloride	5.78	117	464155	95.57	ug/l	100
34) Benzene	6.15	78	1397838	105.89	ug/l	100
35) Methacrylonitrile	5.07	41	329699	125.86	ug/l	96
36) 1,2-Dichloroethane	6.21	62	543518	106.17	ug/l	100
37) Trichloroethene	7.22	130	400801	100.37	ug/l	99
38) Methylcyclohexane	7.46	83	425484	83.25	ug/l	97
39) 1,2-Dichloropropane	7.52	63	355177	106.16	ug/l	99
40) Dibromomethane	7.67	93	256958	108.74	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	498862	111.83	ug/l	98
42) Vinyl Acetate	3.83	43	5122481	571.61	ug/l	99
43) Ethyl Acetate	4.88	43	577490	126.17	ug/l	98
44) Isopropyl Acetate	6.48	43	919828	121.35	ug/l	98
45) 1,4-Dioxane	7.77	88	212020	2875.66	ug/l	97
46) Methyl methacrylate	7.79	41	492106	123.62	ug/l	97
47) n-amyl Acetate	10.91	43	816900	114.26	ug/l	97
48) t-1,3-Dichloropropene	8.44	75	579151	111.48	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	523515	106.88	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	376523	107.20	ug/l	97
51) Ethyl methacrylate	9.19	69	596250	119.30	ug/l	98
52) 1,3-Dichloropropane	9.38	76	619773	108.88	ug/l	99
53) Dibromochloromethane	9.59	129	424941	110.62	ug/l	99
54) 1,2-Dibromoethane	9.68	107	404254	107.18	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	1585624	636.84	ug/l	99
56) Bromoform	10.87	173	377210	119.76	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	3052149	669.33	ug/l	98
59) 2-Hexanone	9.51	43	2273160	644.08	ug/l	98
61) Tetrachloroethene	9.34	164	414613	102.03	ug/l	98
62) Toluene	8.79	91	1489046	104.82	ug/l	99
64) Chlorobenzene	10.15	112	974285	101.87	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	391655	112.09	ug/l	100
66) Ethyl Benzene	10.26	91	1523863	97.29	ug/l	98
67) m/p-Xylenes	10.37	106	1221456	195.16	ug/l	98
68) o-Xylene	10.71	106	618304	102.35	ug/l	98
69) Styrene	10.72	104	1060628	105.46	ug/l	98
70) Isopropylbenzene	11.02	105	1512722	92.65	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	574131	117.20	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	542777m	122.88	ug/l	
73) Bromobenzene	11.26	156	490846	102.91	ug/l	99
74) n-propylbenzene	11.37	91	1675750	91.09	ug/l	99
75) 2-Chlorotoluene	11.43	91	1066719	95.37	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	1293975	93.02	ug/l	99
77) t-1,4-Dichloro-2-butene	11.09	75	168847	129.75	ug/l	82
78) 4-Chlorotoluene	11.52	91	1231122	93.22	ug/l	100
79) tert-butylbenzene	12.07	119	1383893	93.10	ug/l	99
80) 1,2,4-Trimethylbenzene	11.82	105	1350725	95.64	ug/l	99
81) sec-Butylbenzene	11.95	105	1472771	91.31	ug/l	100
82) p-Isopropyltoluene	12.07	119	1383893	93.10	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	847390	98.11	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	859596	98.03	ug/l	99
85) n-Butylbenzene	12.40	91	1129392	89.05	ug/l	98
86) Hexachloroethane	12.60	117	234772	102.63	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	890642	103.04	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	141650	135.56	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	663907	102.96	ug/l	100
90) Hexachlorobutadiene	13.79	225	303578	98.11	ug/l	98
91) Naphthalene	13.84	128	2100432	122.34	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	695860	107.66	ug/l	99

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

