

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001808.D
 Acq On : 18 May 2018 05:07
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:34 PM

Quant Time: May 18 07:07:15 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 06:08:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	61195	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	277800	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	216457	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	117382	27.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.07%
60) 4-Bromofluorobenzene	11.14	95	96735	28.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.43%
63) Toluene-d8	8.72	98	324199	32.75	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.17%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	78029	29.75	ug/l	98
3) Chloromethane	1.32	50	155932	48.81	ug/l	99
4) Vinyl Chloride	1.40	62	139548	43.24	ug/l	100
5) Bromomethane	1.64	94	66279	40.73	ug/l	98
6) Chloroethane	1.72	64	100762	46.04	ug/l	99
7) Trichlorofluoromethane	1.93	101	150842	33.80	ug/l	99
8) Diethyl Ether	2.19	74	108463	51.47	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	79353	32.17	ug/l	99
10) 1,1-Dichloroethene	2.37	96	106549	40.43	ug/l	98
11) Methyl Iodide	2.51	142	193406	49.21	ug/l	98
12) Methyl Acetate	2.78	43	262592	54.61	ug/l	98
13) Acrolein	2.30	56	152161	273.21	ug/l	99
14) Acrylonitrile	3.15	53	491727	258.71	ug/l	99
15) Acetone	2.45	58	132300	258.12	ug/l	100
16) Carbon Disulfide	2.57	76	277061	42.17	ug/l	100
17) Allyl chloride	2.73	41	243574	47.08	ug/l	97
18) Methylene Chloride	2.86	84	162050	49.64	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	132934	45.43	ug/l	95
20) Diisopropyl ether	3.88	45	530489	52.98	ug/l	98
21) 1,1-Dichloroethane	3.70	63	266982	47.71	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	174199	51.24	ug/l	98
23) tert-Butyl Alcohol	3.09	59	201595	241.51	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	508174	50.41	ug/l	100
25) Chloroform	5.22	83	285689	49.04	ug/l	99
26) Cyclohexane	5.58	56	142534	36.61	ug/l	# 100
29) 1,1-Dichloropropene	5.80	75	159341	47.49	ug/l	99
30) 2-Butanone	4.72	43	694570	292.35	ug/l	100
31) 2,2-Dichloropropane	4.59	77	94794	34.65	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	203323	47.37	ug/l	99
33) Carbon Tetrachloride	5.79	117	165681	44.50	ug/l	98
34) Benzene	6.15	78	619625	55.08	ug/l	98
35) Methacrylonitrile	5.07	41	147545	57.52	ug/l	97
36) 1,2-Dichloroethane	6.21	62	231879	52.18	ug/l	100
37) Trichloroethene	7.22	130	170724	52.61	ug/l	98
38) Methylcyclohexane	7.46	83	137699	39.34	ug/l	96
39) 1,2-Dichloropropane	7.52	63	163037	57.06	ug/l	100
40) Dibromomethane	7.67	93	115933	56.59	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	214451	56.27	ug/l	98
42) Vinyl Acetate	3.83	43	1814129	243.63	ug/l	100
43) Ethyl Acetate	4.87	43	260677	57.62	ug/l	100
44) Isopropyl Acetate	6.48	43	398145	57.78	ug/l	100
45) 1,4-Dioxane	7.76	88	95050	1175.59	ug/l	98
46) Methyl methacrylate	7.79	41	211812	57.32	ug/l	97
47) n-amyl Acetate	10.91	43	284703	50.47	ug/l	99
48) t-1,3-Dichloropropene	8.45	75	231962	55.57	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	205084	55.65	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	154127	51.81	ug/l	98
51) Ethyl methacrylate	9.19	69	227882	53.28	ug/l	98
52) 1,3-Dichloropropane	9.38	76	250039	51.27	ug/l	99
53) Dibromochloromethane	9.59	129	163686	53.32	ug/l	100
54) 1,2-Dibromoethane	9.68	107	161982	52.06	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	674657	290.12	ug/l	99
56) Bromoform	10.87	173	136612	54.05	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	1345588	324.10	ug/l	98
59) 2-Hexanone	9.51	43	879139	292.44	ug/l	100
61) Tetrachloroethene	9.34	164	157558	51.10	ug/l	98
62) Toluene	8.79	91	617100	58.24	ug/l	99
64) Chlorobenzene	10.15	112	357859	52.74	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	146109	55.76	ug/l	99
66) Ethyl Benzene	10.26	91	530974	50.47	ug/l	98
67) m/p-Xylenes	10.37	106	427170	101.81	ug/l	99
68) o-Xylene	10.71	106	217869	52.01	ug/l	99
69) Styrene	10.72	104	372556	53.54	ug/l	100
70) Isopropylbenzene	11.02	105	508959	48.12	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	213137	56.22	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	207486m	56.50	ug/l	
73) Bromobenzene	11.26	156	176725	53.39	ug/l	98
74) n-propylbenzene	11.37	91	532967	46.17	ug/l	100
75) 2-Chlorotoluene	11.43	91	359200	48.85	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	424351	47.74	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	49707	54.26	ug/l	86
78) 4-Chlorotoluene	11.52	91	402681	48.36	ug/l	99
79) tert-butylbenzene	12.07	119	427666	46.08	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	447315	49.14	ug/l	99
81) sec-Butylbenzene	11.95	105	464627	45.68	ug/l	99
82) p-Isopropyltoluene	12.07	119	427666	46.08	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	278292	49.27	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	276090	48.71	ug/l	99
85) n-Butylbenzene	12.40	91	316900	43.34	ug/l	99
86) Hexachloroethane	12.60	117	70029	46.85	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	302579	51.21	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	49166	56.42	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	200232	48.44	ug/l	100
90) Hexachlorobutadiene	13.79	225	89685	43.10	ug/l	97
91) Naphthalene	13.84	128	720970	56.40	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	221451	50.08	ug/l	99

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

