

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002684.D
 Acq On : 18 Jun 2018 17:28
 Operator : JC/MD
 Sample : VX0618WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0618WBS01

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:31 PM

Quant Time: Jun 19 05:28:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	47666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	270741	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	253931	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	111351	30.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.97%
60) 4-Bromofluorobenzene	11.14	95	123953	29.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.53%
63) Toluene-d8	8.72	98	335484	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	44612	19.61	ug/l	99
3) Chloromethane	1.32	50	49865	20.19	ug/l	97
4) Vinyl Chloride	1.40	62	55980	20.34	ug/l	97
5) Bromomethane	1.64	94	35579	22.13	ug/l	99
6) Chloroethane	1.72	64	36542	19.74	ug/l	96
7) Trichlorofluoromethane	1.93	101	100486	20.54	ug/l	98
8) Diethyl Ether	2.19	74	35663	20.45	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	57773	20.64	ug/l	98
10) 1,1-Dichloroethene	2.37	96	49654	20.15	ug/l	97
11) Methyl Iodide	2.51	142	37056	13.06	ug/l	99
12) Methyl Acetate	2.78	43	83401	20.86	ug/l	96
13) Acrolein	2.29	56	23877	83.98	ug/l	100
14) Acrylonitrile	3.15	53	159844	106.27	ug/l	100
15) Acetone	2.45	58	46113	110.30	ug/l	95
16) Carbon Disulfide	2.57	76	116670	18.91	ug/l	100
17) Allyl chloride	2.73	41	99148	20.22	ug/l	93
18) Methylene Chloride	2.86	84	57143	20.26	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	54551	20.64	ug/l	99
20) Diisopropyl ether	3.87	45	195999	21.45	ug/l	95
21) 1,1-Dichloroethane	3.70	63	106106	21.60	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	57720	20.32	ug/l #	77
23) tert-Butyl Alcohol	3.07	59	72594	106.31	ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	191774	20.84	ug/l	100
25) Chloroform	5.21	83	99997	20.28	ug/l	98
26) Cyclohexane	5.57	56	82605	19.79	ug/l #	95
29) 1,1-Dichloropropene	5.80	75	70699	19.34	ug/l	98
30) 2-Butanone	4.71	43	218108	104.25	ug/l	98
31) 2,2-Dichloropropane	4.59	77	76828	19.66	ug/l	100
32) 1,1,1-Trichloroethane	5.49	97	85811	19.43	ug/l	99
33) Carbon Tetrachloride	5.78	117	75062	18.91	ug/l	99
34) Benzene	6.15	78	211672	19.55	ug/l	98
35) Methacrylonitrile	5.07	41	47066	20.66	ug/l	95
36) 1,2-Dichloroethane	6.20	62	83267	19.59	ug/l	99
37) Trichloroethene	7.21	130	61432	19.37	ug/l	94
38) Methylcyclohexane	7.46	83	86405	19.42	ug/l	99
39) 1,2-Dichloropropane	7.52	63	56218	19.90	ug/l	95
40) Dibromomethane	7.67	93	39088	19.92	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	69976	18.98	ug/l	98
42) Vinyl Acetate	3.82	43	848541	106.94	ug/l	99
43) Ethyl Acetate	4.87	43	81803	20.44	ug/l	98
44) Isopropyl Acetate	6.47	43	131497	19.61	ug/l	100
45) 1,4-Dioxane	7.76	88	27689	421.58	ug/l #	86
46) Methyl methacrylate	7.78	41	68003	19.85	ug/l	98
47) n-amyl Acetate	10.90	43	118263	18.69	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	82477	19.06	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	75968	18.80	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	57038	19.71	ug/l	98
51) Ethyl methacrylate	9.18	69	84911	19.43	ug/l	96
52) 1,3-Dichloropropane	9.38	76	93066	19.69	ug/l	98
53) Dibromochloromethane	9.59	129	56392	18.35	ug/l	99
54) 1,2-Dibromoethane	9.68	107	59802	19.61	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	199711	96.24	ug/l	99
56) Bromoform	10.86	173	43480	17.72	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	435589	101.03	ug/l	98
59) 2-Hexanone	9.50	43	336842	102.20	ug/l	98
61) Tetrachloroethene	9.34	164	69107	19.83	ug/l	98
62) Toluene	8.79	91	241926	19.77	ug/l	98
64) Chlorobenzene	10.14	112	161017	19.80	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	58462	19.61	ug/l	99
66) Ethyl Benzene	10.26	91	270621	19.63	ug/l	100
67) m/p-Xylenes	10.36	106	209845	39.17	ug/l	99
68) o-Xylene	10.70	106	100348	19.23	ug/l	98
69) Styrene	10.71	104	169625	19.48	ug/l	98
70) Isopropylbenzene	11.02	105	280894	19.52	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	84256	19.58	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	85393m	22.90	ug/l	
73) Bromobenzene	11.26	156	77209	19.29	ug/l	93
74) n-propylbenzene	11.37	91	324495	19.42	ug/l	99
75) 2-Chlorotoluene	11.43	91	193844	19.94	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	234826	19.22	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	21312	17.77	ug/l	72
78) 4-Chlorotoluene	11.51	91	224016	19.45	ug/l	99
79) tert-butylbenzene	12.07	119	261410	19.40	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	243568	19.52	ug/l	99
81) sec-Butylbenzene	11.95	105	290839	19.46	ug/l	100
82) p-Isopropyltoluene	12.07	119	261410	19.40	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	143137	19.43	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	143007	19.22	ug/l	99
85) n-Butylbenzene	12.39	91	228449	19.12	ug/l	99
86) Hexachloroethane	12.60	117	36400	17.82	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	142906	19.21	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	18140	18.87	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	108201	19.27	ug/l	99
90) Hexachlorobutadiene	13.79	225	58197	19.91	ug/l	99
91) Naphthalene	13.84	128	290166	19.50	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	108658	19.45	ug/l	99

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

