

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX003002.D
 Acq On : 28 Jun 2018 22:45
 Operator : JC/MD
 Sample : VX0628WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0628WBSD02

Manual Integrations
 APPROVED

MMDadoda
 6/29/2018 12:22:50 PM

Quant Time: Jun 29 05:57:03 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	49802	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	270826	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	254614	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	114592	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	11.14	95	123989	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.72	98	330864	29.75	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.17%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	47341	19.92	ug/l	100
3) Chloromethane	1.32	50	50264	19.48	ug/l	99
4) Vinyl Chloride	1.40	62	54677	19.02	ug/l #	83
5) Bromomethane	1.64	94	24987	14.88	ug/l	99
6) Chloroethane	1.72	64	35259	18.23	ug/l	99
7) Trichlorofluoromethane	1.93	101	93840	18.36	ug/l	99
8) Diethyl Ether	2.19	74	34421	18.89	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	52183	17.84	ug/l	97
10) 1,1-Dichloroethene	2.37	96	47826	18.58	ug/l	98
11) Methyl Iodide	2.51	142	40344	13.61	ug/l	99
12) Methyl Acetate	2.78	43	95091	22.76	ug/l	99
13) Acrolein	2.30	56	28479	95.87	ug/l	100
14) Acrylonitrile	3.15	53	155968	99.25	ug/l	99
15) Acetone	2.45	58	41592	95.22	ug/l	99
16) Carbon Disulfide	2.57	76	120986	18.77	ug/l	100
17) Allyl chloride	2.73	41	94383	18.42	ug/l	97
18) Methylene Chloride	2.86	84	55619	18.87	ug/l	100
19) trans-1,2-Dichloroethene	3.17	96	51853	18.78	ug/l	99
20) Diisopropyl ether	3.88	45	195156	20.44	ug/l	98
21) 1,1-Dichloroethane	3.70	63	104965	20.45	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	63496	21.40	ug/l	81
23) tert-Butyl Alcohol	3.08	59	72716	101.92	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	181432	18.87	ug/l	97
25) Chloroform	5.22	83	107489	20.86	ug/l	99
26) Cyclohexane	5.57	56	82083	18.82	ug/l #	97
29) 1,1-Dichloropropene	5.80	75	74681	20.42	ug/l	99
30) 2-Butanone	4.71	43	228063	108.98	ug/l	96
31) 2,2-Dichloropropane	4.59	77	61958	15.85	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	94423	21.37	ug/l	98
33) Carbon Tetrachloride	5.79	117	82075	20.67	ug/l	95
34) Benzene	6.15	78	224682	20.74	ug/l	99
35) Methacrylonitrile	5.07	41	49614	21.77	ug/l	92
36) 1,2-Dichloroethane	6.20	62	90255	21.22	ug/l	99
37) Trichloroethene	7.21	130	65711	20.71	ug/l	95
38) Methylcyclohexane	7.46	83	77485	17.41	ug/l	99
39) 1,2-Dichloropropane	7.52	63	58910	20.85	ug/l	97
40) Dibromomethane	7.67	93	41067	20.92	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	76758	20.82	ug/l	98
42) Vinyl Acetate	3.83	43	786978	99.15	ug/l	100
43) Ethyl Acetate	4.87	43	88045	22.00	ug/l	100
44) Isopropyl Acetate	6.47	43	141806	21.14	ug/l	100
45) 1,4-Dioxane	7.76	88	29333	446.47	ug/l #	85
46) Methyl methacrylate	7.78	41	72638	21.20	ug/l	98
47) n-amyl Acetate	10.90	43	121446	19.19	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	83063	19.19	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	77166	19.09	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	61236	21.15	ug/l	97
51) Ethyl methacrylate	9.18	69	90415	20.69	ug/l	94
52) 1,3-Dichloropropane	9.38	76	99728	21.09	ug/l	99
53) Dibromochloromethane	9.59	129	63093	20.53	ug/l	100
54) 1,2-Dibromoethane	9.68	107	63069	20.67	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	52299	25.19	ug/l	99
56) Bromoform	10.86	173	49012	19.97	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	469366	108.58	ug/l	97
59) 2-Hexanone	9.50	43	356558	107.90	ug/l	99
61) Tetrachloroethene	9.34	164	74788	21.40	ug/l	96
62) Toluene	8.79	91	253444	20.65	ug/l	99
64) Chlorobenzene	10.14	112	167157	20.50	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	61968	20.73	ug/l	99
66) Ethyl Benzene	10.26	91	277572	20.08	ug/l	99
67) m/p-Xylenes	10.37	106	216883	40.38	ug/l	97
68) o-Xylene	10.70	106	104891	20.04	ug/l	98
69) Styrene	10.71	104	175866	20.14	ug/l	98
70) Isopropylbenzene	11.02	105	281833	19.53	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	93026	21.56	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	87683m	23.45	ug/l	
73) Bromobenzene	11.26	156	79973	19.93	ug/l	95
74) n-propylbenzene	11.37	91	311584	18.60	ug/l	99
75) 2-Chlorotoluene	11.43	91	193762	19.88	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	233662	19.07	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	19365	16.10	ug/l	87
78) 4-Chlorotoluene	11.51	91	224170	19.41	ug/l	97
79) tert-butylbenzene	12.07	119	237287	17.56	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	237576	18.99	ug/l	98
81) sec-Butylbenzene	11.95	105	268016	17.88	ug/l	100
82) p-Isopropyltoluene	12.07	119	237287	17.56	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	143490	19.43	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	144971	19.44	ug/l	99
85) n-Butylbenzene	12.39	91	195429	16.31	ug/l	98
86) Hexachloroethane	12.60	117	33061	16.14	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	147225	19.74	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19471	20.21	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	99436	17.66	ug/l	99
90) Hexachlorobutadiene	13.79	225	49362	16.84	ug/l	100
91) Naphthalene	13.84	128	303511	20.34	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	105982	18.92	ug/l	99

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

