

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX003001.D
 Acq On : 28 Jun 2018 22:19
 Operator : JC/MD
 Sample : VX0628WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0628WBS02

Manual Integrations
 APPROVED

MMDadoda
 6/29/2018 12:22:57 PM

Quant Time: Jun 29 05:55:36 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	50573	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	277007	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	254926	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	113942	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	11.14	95	124965	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	8.72	98	332089	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	48711	20.18	ug/l	97
3) Chloromethane	1.32	50	51341	19.59	ug/l	100
4) Vinyl Chloride	1.40	62	56968	19.51	ug/l #	84
5) Bromomethane	1.64	94	27317	16.01	ug/l	97
6) Chloroethane	1.73	64	36515	18.60	ug/l	99
7) Trichlorofluoromethane	1.93	101	96983	18.69	ug/l	100
8) Diethyl Ether	2.19	74	35983	19.45	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	56377	18.98	ug/l	99
10) 1,1-Dichloroethene	2.37	96	49752	19.03	ug/l	94
11) Methyl Iodide	2.51	142	43029	14.29	ug/l	98
12) Methyl Acetate	2.78	43	96281	22.69	ug/l	97
13) Acrolein	2.30	56	15149	50.22	ug/l	98
14) Acrylonitrile	3.15	53	159632	100.03	ug/l	99
15) Acetone	2.45	58	42940	96.81	ug/l	95
16) Carbon Disulfide	2.57	76	128936	19.70	ug/l	99
17) Allyl chloride	2.73	41	96763	18.60	ug/l	99
18) Methylene Chloride	2.86	84	56730	18.96	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	53985	19.26	ug/l	94
20) Diisopropyl ether	3.88	45	198238	20.45	ug/l	98
21) 1,1-Dichloroethane	3.70	63	106481	20.43	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	64929	21.55	ug/l	80
23) tert-Butyl Alcohol	3.07	59	73294	101.16	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	185395	18.99	ug/l	98
25) Chloroform	5.22	83	110595	21.14	ug/l	99
26) Cyclohexane	5.57	56	83155	18.78	ug/l #	95
29) 1,1-Dichloropropene	5.80	75	75679	20.23	ug/l	98
30) 2-Butanone	4.71	43	231532	108.16	ug/l	96
31) 2,2-Dichloropropane	4.59	77	64548	16.15	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	94683	20.95	ug/l	99
33) Carbon Tetrachloride	5.79	117	84246	20.74	ug/l	97
34) Benzene	6.15	78	228789	20.65	ug/l	99
35) Methacrylonitrile	5.07	41	51350	22.03	ug/l	98
36) 1,2-Dichloroethane	6.20	62	91401	21.01	ug/l	99
37) Trichloroethene	7.22	130	67332	20.75	ug/l	89
38) Methylcyclohexane	7.46	83	78635	17.28	ug/l	99
39) 1,2-Dichloropropane	7.52	63	60658	20.99	ug/l	100
40) Dibromomethane	7.66	93	42700	21.27	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	78683	20.86	ug/l	97
42) Vinyl Acetate	3.83	43	805068	99.17	ug/l	100
43) Ethyl Acetate	4.87	43	89586	21.88	ug/l	98
44) Isopropyl Acetate	6.47	43	142236	20.74	ug/l	98
45) 1,4-Dioxane	7.76	88	29656	441.31	ug/l #	85
46) Methyl methacrylate	7.78	41	74009	21.12	ug/l	98
47) n-amyl Acetate	10.90	43	123094	19.02	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	84453	19.07	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	78221	18.92	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	61477	20.76	ug/l	98
51) Ethyl methacrylate	9.18	69	90398	20.22	ug/l	95
52) 1,3-Dichloropropane	9.38	76	99663	20.60	ug/l	99
53) Dibromochloromethane	9.59	129	64023	20.36	ug/l	100
54) 1,2-Dibromoethane	9.68	107	64162	20.56	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	40517	19.08	ug/l	99
56) Bromoform	10.86	173	49665	19.79	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	474724	109.68	ug/l	98
59) 2-Hexanone	9.50	43	363128	109.75	ug/l	99
61) Tetrachloroethene	9.34	164	73712	21.07	ug/l	98
62) Toluene	8.79	91	255856	20.82	ug/l	100
64) Chlorobenzene	10.14	112	169078	20.71	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	63874	21.34	ug/l	100
66) Ethyl Benzene	10.26	91	285042	20.60	ug/l	100
67) m/p-Xylenes	10.36	106	218202	40.57	ug/l	98
68) o-Xylene	10.70	106	105957	20.22	ug/l	98
69) Styrene	10.71	104	176762	20.22	ug/l	98
70) Isopropylbenzene	11.02	105	288908	20.00	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	94103	21.79	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	79756m	21.30	ug/l	
73) Bromobenzene	11.26	156	81238	20.22	ug/l	94
74) n-propylbenzene	11.37	91	316965	18.90	ug/l	98
75) 2-Chlorotoluene	11.43	91	199187	20.41	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	236347	19.27	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	19465	16.16	ug/l	82
78) 4-Chlorotoluene	11.51	91	228349	19.75	ug/l	98
79) tert-butylbenzene	12.07	119	243650	18.01	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	240418	19.19	ug/l	99
81) sec-Butylbenzene	11.95	105	273959	18.26	ug/l	100
82) p-Isopropyltoluene	12.07	119	243650	18.01	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	144891	19.60	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	147204	19.71	ug/l	99
85) n-Butylbenzene	12.39	91	200590	16.73	ug/l	99
86) Hexachloroethane	12.60	117	33376	16.27	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	147840	19.80	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19611	20.33	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	100801	17.88	ug/l	99
90) Hexachlorobutadiene	13.79	225	50639	17.26	ug/l	98
91) Naphthalene	13.84	128	306025	20.48	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	105996	18.90	ug/l	100

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

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