

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008168.D
 Acq On : 18 Mar 2019 16:06
 Operator : JC/SP
 Sample : VX0318WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:37:27 AM

Quant Time: Mar 19 03:17:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	64462	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	366422	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	323289	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	162458	30.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.00%
60) 4-Bromofluorobenzene	11.13	95	163182	30.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.80%
63) Toluene-d8	8.71	98	467641	29.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	58754	20.341	ug/l 98
3) Chloromethane	1.33	50	70921	19.479	ug/l 98
4) Vinyl Chloride	1.41	62	72586	19.333	ug/l 98
5) Bromomethane	1.64	94	47994	16.049	ug/l 99
6) Chloroethane	1.73	64	44673	19.034	ug/l 97
7) Trichlorofluoromethane	1.93	101	92688	19.607	ug/l 98
8) Diethyl Ether	2.19	74	51170	20.047	ug/l 84
9) 1,1,2-Trichlorotrifluoroet	2.39	101	67337	21.000	ug/l 92
10) 1,1-Dichloroethene	2.37	96	62106	20.504	ug/l 88
11) Methyl Iodide	2.51	142	76343	19.802	ug/l 98
12) Methyl Acetate	2.78	43	98740	19.917	ug/l 93
13) Acrolein	2.29	56	66590	87.343	ug/l 97
14) Acrylonitrile	3.14	53	212327	96.518	ug/l 99
15) Acetone	2.45	58	65419	92.553	ug/l 95
16) Carbon Disulfide	2.57	76	190643	19.742	ug/l 99
17) Allyl chloride	2.73	41	132063	19.948	ug/l 97
18) Methylene Chloride	2.86	84	71059	20.133	ug/l 88
19) trans-1,2-Dichloroethene	3.17	96	65600	20.159	ug/l 93
20) Diisopropyl ether	3.85	45	261915	20.201	ug/l # 81
21) 1,1-Dichloroethane	3.70	63	135593	20.493	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	74573m	20.102	ug/l
23) tert-Butyl Alcohol	3.04	59	78995	97.467	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	220837	20.097	ug/l 98
25) Chloroform	5.21	83	126990	20.345	ug/l 93
26) Cyclohexane	5.58	56	130847	20.742	ug/l # 85
29) 1,1-Dichloropropene	5.81	75	97738	20.042	ug/l 94
30) 2-Butanone	4.67	43	322928	94.463	ug/l # 89
31) 2,2-Dichloropropane	4.59	77	98366	19.999	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	104669	20.263	ug/l # 94
33) Carbon Tetrachloride	5.79	117	88895	20.506	ug/l 93
34) Benzene	6.15	78	294732	20.211	ug/l 98
35) Methacrylonitrile	5.04	41	65107	19.575	ug/l 92
36) 1,2-Dichloroethane	6.20	62	109148	20.621	ug/l 96
37) Trichloroethene	7.21	130	70555	20.303	ug/l 84
38) Methylcyclohexane	7.46	83	118968	20.084	ug/l 89
39) 1,2-Dichloropropane	7.51	63	78329	19.723	ug/l 98
40) Dibromomethane	7.66	93	48384	19.898	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	92567	19.687	ug/l	99
42) Vinyl Acetate	3.82	43	1138913	99.062	ug/l #	94
43) Ethyl Acetate	4.84	43	115245	19.015	ug/l #	82
44) Isopropyl Acetate	6.45	43	183085	19.476	ug/l	98
45) 1,4-Dioxane	7.74	88	33860	385.579	ug/l #	82
46) Methyl methacrylate	7.77	41	96681	19.492	ug/l	91
47) n-amyl Acetate	10.90	43	158873	19.778	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	103569	19.929	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	114659	19.832	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	71163	20.384	ug/l	97
51) Ethyl methacrylate	9.18	69	113724	20.095	ug/l	92
52) 1,3-Dichloropropane	9.37	76	126534	20.242	ug/l	99
53) Dibromochloromethane	9.58	129	67045	19.861	ug/l	100
54) 1,2-Dibromoethane	9.67	107	73672	20.219	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	394964	98.024	ug/l	95
56) Bromoform	10.85	173	48016	19.771	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	617663	99.898	ug/l	96
59) 2-Hexanone	9.49	43	474264	97.221	ug/l	97
61) Tetrachloroethene	9.34	164	68197	20.946	ug/l	98
62) Toluene	8.78	91	307692	20.124	ug/l	99
64) Chlorobenzene	10.14	112	183350	20.149	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	63745	19.978	ug/l	98
66) Ethyl Benzene	10.25	91	330562	20.242	ug/l	95
67) m/p-Xylenes	10.36	106	242071	40.126	ug/l	91
68) o-Xylene	10.69	106	118258	20.400	ug/l	92
69) Styrene	10.71	104	190306	20.154	ug/l	95
70) Isopropylbenzene	11.02	105	320985	20.535	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	111724	20.405	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	112299m	23.784	ug/l	
73) Bromobenzene	11.26	156	74243	20.064	ug/l	81
74) n-propylbenzene	11.36	91	372982	20.154	ug/l	95
75) 2-Chlorotoluene	11.42	91	221045	20.331	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	261814	20.255	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	33120	19.521	ug/l	97
78) 4-Chlorotoluene	11.51	91	250255	19.983	ug/l	92
79) tert-butylbenzene	12.06	119	269346	20.462	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	267087	20.470	ug/l	94
81) sec-Butylbenzene	11.94	105	313302	20.296	ug/l	96
82) p-Isopropyltoluene	12.06	119	269346	20.462	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	134158	20.231	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	132450	20.125	ug/l	96
85) n-Butylbenzene	12.38	91	246268	19.841	ug/l	97
86) Hexachloroethane	12.60	117	44959	19.925	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	133989	20.278	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	23400	19.299	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	88914	20.658	ug/l	99
90) Hexachlorobutadiene	13.78	225	45320	20.290	ug/l	99
91) Naphthalene	13.83	128	282285	20.249	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	87245	20.294	ug/l	99

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

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