

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX040519\
 Data File : VX008681.D
 Acq On : 05 Apr 2019 13:41
 Operator : JC/SP
 Sample : VX0405WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0405WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 9:49:30 AM

Quant Time: Apr 06 01:43:56 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032719W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Mar 27 12:01:15 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	29276	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	170198	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	150826	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	73570	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.13	95	77992	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	8.71	98	216393	30.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.77%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	36524	18.245 ug/l	98
3) Chloromethane	1.32	50	49724	18.958 ug/l	96
4) Vinyl Chloride	1.40	62	47737	18.056 ug/l	98
5) Bromomethane	1.64	94	20497	14.963 ug/l	99
6) Chloroethane	1.72	64	29807	17.226 ug/l	99
7) Trichlorofluoromethane	1.93	101	54049	18.419 ug/l	94
8) Diethyl Ether	2.18	74	26254	18.972 ug/l	80
9) 1,1,2-Trichlorotrifluoroet	2.39	101	35401	19.372 ug/l	93
10) 1,1-Dichloroethene	2.37	96	35875	19.351 ug/l #	81
11) Methyl Iodide	2.51	142	18063	9.409 ug/l	95
12) Methyl Acetate	3.20	43	30275	20.148 ug/l	92
13) Acrolein	2.29	56	47506	110.205 ug/l	98
14) Acrylonitrile	3.14	53	146439	105.412 ug/l	99
15) Acetone	2.44	58	44803	104.583 ug/l	90
16) Carbon Disulfide	2.57	76	104626	18.142 ug/l	99
17) Allyl chloride	2.73	41	83616	20.068 ug/l	92
18) Methylene Chloride	2.85	84	46468	20.968 ug/l #	84
19) trans-1,2-Dichloroethene	3.17	96	38303	19.338 ug/l	88
20) Diisopropyl ether	3.85	45	166191	20.493 ug/l #	87
21) 1,1-Dichloroethane	3.70	63	81352	19.985 ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	45603	19.924 ug/l #	81
23) tert-Butyl Alcohol	3.04	59	53494	95.360 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	135172	19.839 ug/l	98
25) Chloroform	5.21	83	72775	19.737 ug/l	98
26) Cyclohexane	5.58	56	76111	19.246 ug/l #	83
29) 1,1-Dichloropropene	5.80	75	56226	19.637 ug/l	93
30) 2-Butanone	4.67	43	220134	104.550 ug/l	94
31) 2,2-Dichloropropane	4.59	77	56906	19.899 ug/l	95
32) 1,1,1-Trichloroethane	5.49	97	57576	19.364 ug/l #	95
33) Carbon Tetrachloride	5.79	117	47769	19.202 ug/l	98
34) Benzene	6.14	78	174210	19.904 ug/l #	97
35) Methacrylonitrile	5.04	41	45216	21.117 ug/l	91
36) 1,2-Dichloroethane	6.19	62	62024	19.876 ug/l	97
37) Trichloroethene	7.21	130	40044	19.894 ug/l	82
38) Methylcyclohexane	7.46	83	68459	18.974 ug/l	88
39) 1,2-Dichloropropane	7.51	63	49733	20.033 ug/l	98
40) Dibromomethane	7.66	93	28612	19.896 ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	54435	19.251	ug/l	97
42) Vinyl Acetate	3.81	43	734563	102.914	ug/l #	93
43) Ethyl Acetate	4.84	43	79938	21.094	ug/l #	82
44) Isopropyl Acetate	6.45	43	123727	20.191	ug/l	98
45) 1,4-Dioxane	7.74	88	21770	356.875	ug/l #	84
46) Methyl methacrylate	7.77	41	63176	20.299	ug/l	85
47) n-amyl Acetate	10.90	43	112283	20.172	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	60276	18.872	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	69569	19.474	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	41932	19.637	ug/l	97
51) Ethyl methacrylate	9.18	69	77383	19.474	ug/l	91
52) 1,3-Dichloropropane	9.37	76	76068	20.023	ug/l	100
53) Dibromochloromethane	9.58	129	40103	19.085	ug/l	99
54) 1,2-Dibromoethane	9.67	107	42924	19.500	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	202092	100.810	ug/l	95
56) Bromoform	10.85	173	28134	18.371	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	418331	105.133	ug/l #	94
59) 2-Hexanone	9.49	43	325049	103.399	ug/l	97
61) Tetrachloroethene	9.34	164	35724	21.654	ug/l	97
62) Toluene	8.78	91	181799	19.908	ug/l	99
64) Chlorobenzene	10.14	112	106147	19.838	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	37200	19.719	ug/l	98
66) Ethyl Benzene	10.25	91	200176	19.749	ug/l	96
67) m/p-Xylenes	10.36	106	144641	39.124	ug/l	92
68) o-Xylene	10.70	106	70855	19.585	ug/l	92
69) Styrene	10.71	104	122225	19.416	ug/l	96
70) Isopropylbenzene	11.02	105	186908	19.586	ug/l	94
71) 1,1,2,2-Tetrachloroethane	11.27	83	71066	19.934	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	69914m	23.200	ug/l	
73) Bromobenzene	11.26	156	45176	19.897	ug/l	79
74) n-propylbenzene	11.36	91	217878	19.164	ug/l	95
75) 2-Chlorotoluene	11.42	91	130963	19.362	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	156814	19.220	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	20920	18.098	ug/l	93
78) 4-Chlorotoluene	11.51	91	146865	18.866	ug/l	92
79) tert-butylbenzene	12.06	119	161206	19.334	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	157609	19.374	ug/l	96
81) sec-Butylbenzene	11.94	105	179608	19.267	ug/l	96
82) p-Isopropyltoluene	12.06	119	161206	19.334	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	78383	19.446	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	78339	19.448	ug/l	97
85) n-Butylbenzene	12.38	91	148428	18.736	ug/l	97
86) Hexachloroethane	12.59	117	25553	18.342	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	80597	19.844	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15473	19.582	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.65	180	56185	20.055	ug/l	99
90) Hexachlorobutadiene	13.78	225	26947	19.965	ug/l	98
91) Naphthalene	13.83	128	192877	20.094	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	56990	20.194	ug/l	99

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

