

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040219\
 Data File : VX008593.D
 Acq On : 02 Apr 2019 14:00
 Operator : JC/SP
 Sample : VX0402WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0402WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 10:49:16 AM

Quant Time: Apr 03 03:52:31 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	5.02	128	33700	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	194635	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	172191	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	83579	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.13	95	88628	29.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.47%
63) Toluene-d8	8.71	98	247982	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	40933	17.763	ug/l 99
3) Chloromethane	1.32	50	56879	18.839	ug/l 96
4) Vinyl Chloride	1.40	62	54184	17.804	ug/l 100
5) Bromomethane	1.64	94	22817	14.470	ug/l 100
6) Chloroethane	1.72	64	32356	16.244	ug/l 94
7) Trichlorofluoromethane	1.93	101	60694	17.968	ug/l 98
8) Diethyl Ether	2.18	74	28528	17.909	ug/l 77
9) 1,1,2-Trichlorotrifluoroet	2.38	101	38160	18.140	ug/l 92
10) 1,1-Dichloroethene	2.37	96	39197	18.367	ug/l # 81
11) Methyl Iodide	2.51	142	27409	12.403	ug/l 95
12) Methyl Acetate	3.20	43	32153	18.589	ug/l 91
13) Acrolein	2.29	56	46300	93.308	ug/l 98
14) Acrylonitrile	3.14	53	159193	99.549	ug/l 99
15) Acetone	2.45	58	43386	87.980	ug/l 96
16) Carbon Disulfide	2.57	76	116072	17.484	ug/l 100
17) Allyl chloride	2.73	41	89800	18.723	ug/l 90
18) Methylene Chloride	2.85	84	48226	18.904	ug/l 90
19) trans-1,2-Dichloroethene	3.17	96	41813	18.339	ug/l 91
20) Diisopropyl ether	3.85	45	179199	19.196	ug/l # 87
21) 1,1-Dichloroethane	3.70	63	87839	18.746	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	48648	18.464	ug/l # 79
23) tert-Butyl Alcohol	3.04	59	62285	96.455	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	146250	18.647	ug/l 99
25) Chloroform	5.21	83	79624	18.759	ug/l 98
26) Cyclohexane	5.57	56	83388	18.318	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	60791	18.565	ug/l 93
30) 2-Butanone	4.67	43	234944	97.574	ug/l 93
31) 2,2-Dichloropropane	4.58	77	58180	17.790	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	63034	18.538	ug/l # 94
33) Carbon Tetrachloride	5.79	117	51096	17.960	ug/l 95
34) Benzene	6.14	78	190604	19.043	ug/l # 95
35) Methacrylonitrile	5.04	41	47953	19.583	ug/l 92
36) 1,2-Dichloroethane	6.19	62	67937	19.037	ug/l 97
37) Trichloroethene	7.21	130	42367	18.405	ug/l 81
38) Methylcyclohexane	7.46	83	73092	17.715	ug/l 87
39) 1,2-Dichloropropane	7.51	63	53806	18.953	ug/l 99
40) Dibromomethane	7.66	93	30863	18.766	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	59057	18.263	ug/l	99
42) Vinyl Acetate	3.81	43	790310	96.823	ug/l #	93
43) Ethyl Acetate	4.83	43	87724	20.242	ug/l #	82
44) Isopropyl Acetate	6.45	43	133053	18.987	ug/l	97
45) 1,4-Dioxane	7.74	88	27511	394.365	ug/l #	84
46) Methyl methacrylate	7.77	41	67820	19.055	ug/l	87
47) n-amyl Acetate	10.90	43	118942	18.685	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	64317	17.609	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	74257	18.176	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	45389	18.587	ug/l	97
51) Ethyl methacrylate	9.18	69	82938	18.251	ug/l	92
52) 1,3-Dichloropropane	9.37	76	82111	18.900	ug/l	100
53) Dibromochloromethane	9.58	129	41948	17.456	ug/l	98
54) 1,2-Dibromoethane	9.67	107	46983	18.664	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	217131	94.713	ug/l	95
56) Bromoform	10.85	173	30074	17.173	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	454255	99.997	ug/l #	95
59) 2-Hexanone	9.49	43	352137	98.117	ug/l	97
61) Tetrachloroethene	9.34	164	36736	19.504	ug/l	98
62) Toluene	8.78	91	197972	18.990	ug/l	99
64) Chlorobenzene	10.14	112	115262	18.868	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	39393	18.290	ug/l	97
66) Ethyl Benzene	10.25	91	216120	18.676	ug/l	95
67) m/p-Xylenes	10.36	106	155545	36.853	ug/l	91
68) o-Xylene	10.69	106	77278	18.710	ug/l	93
69) Styrene	10.71	104	131367	18.279	ug/l	96
70) Isopropylbenzene	11.02	105	202669	18.602	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	77835	19.124	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	76840m	22.335	ug/l	
73) Bromobenzene	11.26	156	47795	18.439	ug/l	78
74) n-propylbenzene	11.36	91	235150	18.117	ug/l	94
75) 2-Chlorotoluene	11.42	91	142357	18.435	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	169242	18.169	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	22770	17.255	ug/l	98
78) 4-Chlorotoluene	11.51	91	158537	17.839	ug/l	91
79) tert-butylbenzene	12.06	119	170788	17.942	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	168094	18.099	ug/l	95
81) sec-Butylbenzene	11.94	105	192049	18.045	ug/l	95
82) p-Isopropyltoluene	12.06	119	170788	17.942	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	82731	17.978	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	82095	17.852	ug/l	97
85) n-Butylbenzene	12.38	91	153559	16.978	ug/l	96
86) Hexachloroethane	12.60	117	27978	17.591	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	84655	18.257	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17233	19.103	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	55914	17.482	ug/l	98
90) Hexachlorobutadiene	13.78	225	27613	17.920	ug/l	99
91) Naphthalene	13.83	128	199748	18.228	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	59344	18.419	ug/l	99

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

