

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030620\
 Data File : VX015123.D
 Acq On : 06 Mar 2020 13:47
 Operator : JC/SP
 Sample : L1161-07 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:36:43 AM

Quant Time: Mar 07 01:02:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	59051	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	307181	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	284071	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	123329	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.14	95	126954	28.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.63%
63) Toluene-d8	8.71	98	372133	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	7533	2.857 ug/l	98
3) Chloromethane	1.32	50	11630	3.411 ug/l	93
4) Vinyl Chloride	1.40	62	11555	3.149 ug/l	98
5) Bromomethane	1.64	94	7116	2.769 ug/l	94
6) Chloroethane	1.72	64	6930	2.819 ug/l	94
7) Trichlorofluoromethane	1.93	101	13800	2.584 ug/l	96
8) Diethyl Ether	2.18	74	6545	2.913 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8441	2.734 ug/l	96
10) 1,1-Dichloroethene	2.37	96	8144	2.624 ug/l #	89
11) Methyl Iodide	2.51	142	6536	1.733 ug/l	89
12) Methyl Acetate	2.76	43	12430m	3.218 ug/l	
13) Acrolein	2.28	56	8548	11.127 ug/l	97
14) Acrylonitrile	3.14	53	23032	13.203 ug/l	98
15) Acetone	2.43	58	7056	11.302 ug/l	91
16) Carbon Disulfide	2.56	76	23768	2.848 ug/l	99
17) Allyl chloride	2.72	41	14342	2.656 ug/l	96
18) Methylene Chloride	2.85	84	10819	3.025 ug/l	97
19) trans-1,2-Dichloroethene	3.16	96	9436	2.767 ug/l	95
20) Diisopropyl ether	3.84	45	30613	2.776 ug/l	93
21) 1,1-Dichloroethane	3.69	63	16411	2.715 ug/l	92
22) cis-1,2-Dichloroethene	4.59	96	10092	2.587 ug/l	94
23) tert-Butyl Alcohol	3.03	59	10741	15.532 ug/l #	96
24) Methyl tert-Butyl Ether	3.19	73	25804	2.499 ug/l	100
25) Chloroform	5.20	83	17050	2.797 ug/l	92
26) Cyclohexane	5.58	56	13935	2.579 ug/l #	54
29) 1,1-Dichloropropene	5.79	75	11586	2.667 ug/l	97
30) 2-Butanone	4.67	43	29255	11.665 ug/l	95
31) 2,2-Dichloropropane	4.57	77	12537	2.628 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	13878m	2.813 ug/l	
33) Carbon Tetrachloride	5.78	117	11832	2.739 ug/l	86
34) Benzene	6.13	78	36342	2.772 ug/l #	91
35) Methacrylonitrile	5.04	41	6061m	2.369 ug/l	
36) 1,2-Dichloroethane	6.18	62	14191	3.058 ug/l #	94
37) Trichloroethene	7.22	130	10646m	2.892 ug/l	
38) Methylcyclohexane	7.46	83	13053	2.424 ug/l	94
39) 1,2-Dichloropropane	7.51	63	9394	2.784 ug/l	96
40) Dibromomethane	7.66	93	6737	2.990 ug/l	96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

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

41) Bromodichloromethane	7.89	83	12188	2.738	ug/l #	83
42) Vinyl Acetate	3.81	43	111627	12.646	ug/l	99
43) Ethyl Acetate	4.83	43	9828	2.166	ug/l #	93
44) Isopropyl Acetate	6.43	43	17739	2.325	ug/l	96
45) 1,4-Dioxane	7.75	88	4183	59.345	ug/l #	90
46) Methyl methacrylate	7.76	41	8544	2.264	ug/l	91
47) n-amyl Acetate	10.89	43	12319	1.864	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	11770	2.383	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	13419	2.468	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	8919	2.657	ug/l	92
51) Ethyl methacrylate	9.17	69	11508	2.221	ug/l	95
52) 1,3-Dichloropropane	9.37	76	15956	2.809	ug/l	90
53) Dibromochloromethane	9.57	129	8699	2.397	ug/l	98
54) 1,2-Dibromoethane	9.67	107	9453	2.652	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	30464	11.037	ug/l	98
56) Bromoform	10.85	173	6266	2.202	ug/l	96
58) 4-Methyl-2-Pentanone	8.64	43	57257	12.299	ug/l	98
59) 2-Hexanone	9.48	43	39568	10.878	ug/l	96
61) Tetrachloroethene	9.33	164	10114	2.651	ug/l	96
62) Toluene	8.78	91	38512	2.647	ug/l	97
64) Chlorobenzene	10.14	112	24388	2.626	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	8575	2.493	ug/l	98
66) Ethyl Benzene	10.25	91	40340	2.517	ug/l	97
67) m/p-Xylenes	10.35	106	29591	4.788	ug/l	98
68) o-Xylene	10.70	106	14234	2.380	ug/l	97
69) Styrene	10.71	104	22173	2.171	ug/l	97
70) Isopropylbenzene	11.01	105	36147	2.276	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	13633	2.665	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	13953	3.289	ug/l	94
73) Bromobenzene	11.25	156	11117	2.590	ug/l	98
74) n-propylbenzene	11.35	91	41498	2.295	ug/l	100
75) 2-Chlorotoluene	11.42	91	26474	2.478	ug/l	94
76) 1,3,5-Trimethylbenzene	11.50	105	29909	2.247	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3114	1.820	ug/l	93
78) 4-Chlorotoluene	11.51	91	29831	2.414	ug/l	99
79) tert-butylbenzene	11.76	119	29691	2.308	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	28430	2.148	ug/l	100
81) sec-Butylbenzene	11.94	105	35454	2.302	ug/l	98
82) p-Isopropyltoluene	12.06	119	29993	2.096	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	18952	2.519	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	19371	2.557	ug/l	97
85) n-Butylbenzene	12.39	91	25021	2.009	ug/l	97
86) Hexachloroethane	12.59	117	5860	2.266	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	19428	2.595	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	2434	2.185	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	12321	2.288	ug/l	96
90) Hexachlorobutadiene	13.78	225	6581	2.461	ug/l	97
91) Naphthalene	13.83	128	27949	1.833	ug/l	97
92) 1,2,3-Trichlorobenzene	14.01	180	12194	2.281	ug/l	98

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

