

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016009.D
 Acq On : 01 May 2020 14:23
 Operator : JC/SP
 Sample : L2182-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 MDL-WATER-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 2:19:57 PM

Quant Time: May 02 07:30:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	49660	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	274727	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	248457	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	114851	30.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.30%
60) 4-Bromofluorobenzene	11.12	95	120433	28.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.33%
63) Toluene-d8	8.70	98	326262	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	5876	1.718 ug/l	98
3) Chloromethane	1.31	50	7634	2.278 ug/l	96
4) Vinyl Chloride	1.39	62	9309	2.445 ug/l	98
5) Bromomethane	1.63	94	6608	2.831 ug/l	95
6) Chloroethane	1.72	64	5961	2.388 ug/l	95
7) Trichlorofluoromethane	1.92	101	12398	2.273 ug/l	100
8) Diethyl Ether	2.17	74	5701	2.619 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7286	2.587 ug/l	97
10) 1,1-Dichloroethene	2.36	96	7440	2.618 ug/l	93
11) Methyl Iodide	2.49	142	9102	2.346 ug/l	92
12) Methyl Acetate	2.75	43	11714	2.361 ug/l	98
13) Acrolein	2.27	56	5587	14.047 ug/l	97
14) Acrylonitrile	3.12	53	23567	12.860 ug/l	99
15) Acetone	2.42	58	7114	14.668 ug/l	87
16) Carbon Disulfide	2.55	76	24601	2.846 ug/l	96
17) Allyl chloride	2.71	41	12941	2.455 ug/l	94
18) Methylene Chloride	2.84	84	8732	2.743 ug/l	94
19) trans-1,2-Dichloroethene	3.14	96	8206	2.640 ug/l	94
20) Diisopropyl ether	3.83	45	24893	2.449 ug/l	99
21) 1,1-Dichloroethane	3.67	63	14300	2.523 ug/l	97
22) cis-1,2-Dichloroethene	4.56	96	9247	2.622 ug/l	97
23) tert-Butyl Alcohol	3.01	59	11891	13.255 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	25023	2.452 ug/l	99
25) Chloroform	5.18	83	14229	2.472 ug/l	94
26) Cyclohexane	5.55	56	12558	2.423 ug/l #	100
29) 1,1-Dichloropropene	5.77	75	10919	2.527 ug/l	98
30) 2-Butanone	4.64	43	32434	12.598 ug/l	97
31) 2,2-Dichloropropane	4.56	77	12919	2.484 ug/l #	88
32) 1,1,1-Trichloroethane	5.47	97	13238	2.526 ug/l	98
33) Carbon Tetrachloride	5.76	117	11170	2.393 ug/l	96
34) Benzene	6.12	78	31514	2.497 ug/l	98
35) Methacrylonitrile	5.00	41	6441	2.356 ug/l	96
36) 1,2-Dichloroethane	6.17	62	12331	2.558 ug/l #	87
37) Trichloroethene	7.19	130	11602	2.584 ug/l	99
38) Methylcyclohexane	7.44	83	12964	2.455 ug/l	99
39) 1,2-Dichloropropane	7.49	63	7859	2.426 ug/l	93
40) Dibromomethane	7.64	93	5732	2.548 ug/l	97

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	10660	2.299	ug/l	98
42) Vinyl Acetate	3.79	43	101833	11.955	ug/l	99
43) Ethyl Acetate	4.80	43	13055	2.571	ug/l #	87
44) Isopropyl Acetate	6.42	43	20262	2.459	ug/l	97
45) 1,4-Dioxane	7.72	88	4566	52.450	ug/l #	93
46) Methyl methacrylate	7.75	41	8776	2.246	ug/l	97
47) n-amyl Acetate	10.88	43	16205	2.249	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	12662	2.351	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	13075	2.350	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	7674	2.421	ug/l	96
51) Ethyl methacrylate	9.16	69	11437	2.185	ug/l	95
52) 1,3-Dichloropropane	9.35	76	13118	2.394	ug/l	95
53) Dibromochloromethane	9.57	129	7983	2.213	ug/l	99
54) 1,2-Dibromoethane	9.65	107	8480	2.434	ug/l	95
55) 2-Chloroethyl vinyl ether	8.29	63	31038	10.899	ug/l	99
56) Bromoform	10.84	173	5449	2.005	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	60328	12.313	ug/l	99
59) 2-Hexanone	9.48	43	46656	12.328	ug/l	100
61) Tetrachloroethene	9.32	164	13482	2.743	ug/l	94
62) Toluene	8.76	91	33189	2.500	ug/l	100
64) Chlorobenzene	10.12	112	21221	2.511	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	7184	2.239	ug/l	93
66) Ethyl Benzene	10.24	91	36207	2.395	ug/l	97
67) m/p-Xylenes	10.34	106	27173	4.719	ug/l	98
68) o-Xylene	10.68	106	13401	2.413	ug/l	98
69) Styrene	10.70	104	21544	2.267	ug/l	98
70) Isopropylbenzene	11.01	105	35960	2.399	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	5400	1.938	ug/l	95
72) 1,2,3-Trichloropropane	11.28	75	11505m	2.549	ug/l	
73) Bromobenzene	11.24	156	9106	2.410	ug/l	98
74) n-propylbenzene	11.35	91	41176	2.365	ug/l	99
75) 2-Chlorotoluene	11.40	91	24620	2.406	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	29085	2.286	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	4309	2.220	ug/l	94
78) 4-Chlorotoluene	11.49	91	28680	2.368	ug/l	98
79) tert-butylbenzene	11.76	119	25001	2.300	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	29398	2.312	ug/l	99
81) sec-Butylbenzene	11.93	105	33612	2.293	ug/l	99
82) p-Isopropyltoluene	12.05	119	30432	2.240	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	16566	2.432	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	16614	2.455	ug/l	99
85) n-Butylbenzene	12.37	91	27323	2.202	ug/l	99
86) Hexachloroethane	12.58	117	4721	1.974	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	15996	2.428	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	2903	2.489	ug/l	89
89) 1,2,4-Trichlorobenzene	13.63	180	11906	2.454	ug/l	99
90) Hexachlorobutadiene	13.77	225	5530	2.652	ug/l	99
91) Naphthalene	13.82	128	35898	2.324	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	11521	2.472	ug/l	95

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

