

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101322\
 Data File : VN074894.D
 Acq On : 13 Oct 2022 14:01
 Operator : JC\MD
 Sample : N4955-09 4.0 MDL
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2022DL

Quant Time: Oct 14 05:04:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/14/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.830	128	72737	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	416378	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	368399	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	211207	31.015	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.400%	
60) 4-Bromofluorobenzene	12.853	95	171869	26.307	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 87.700%	
63) Toluene-d8	10.571	98	669477	31.487	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.967%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	22661	5.610	ug/l	97
3) Chloromethane	2.383	50	36546m	5.595	ug/l	
4) Vinyl Chloride	2.530	62	49860	5.183	ug/l	92
5) Bromomethane	2.948	94	38229	5.012	ug/l	87
6) Chloroethane	3.130	64	42189m	5.848	ug/l	
7) Trichlorofluoromethane	3.512	101	34021	4.744	ug/l	85
8) Diethyl Ether	3.977	74	17734	5.303	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.389	101	24615m	5.455	ug/l	
10) 1,1-Dichloroethene	4.359	96	19811	4.463	ug/l	87
11) Methyl Iodide	4.624	142	23505m	4.242	ug/l	
12) Methyl Acetate	5.059	43	48089	4.495	ug/l	99
13) Acrolein	4.212	56	26015m	17.209	ug/l	
14) Acrylonitrile	5.747	53	89200	22.353	ug/l	67
15) Acetone	4.453	58	28142	25.731	ug/l	89
16) Carbon Disulfide	4.730	76	50696	4.445	ug/l	100
17) Allyl chloride	5.048	41	40018m	4.528	ug/l	
18) Methylene Chloride	5.306	84	30724m	5.338	ug/l	
19) trans-1,2-Dichloroethene	5.795	96	24096m	4.945	ug/l	
20) Diisopropyl ether	6.689	45	87484	4.240	ug/l #	85
21) 1,1-Dichloroethane	6.577	63	48563m	4.627	ug/l	
22) cis-1,2-Dichloroethene	7.494	96	28665	4.698	ug/l #	69
23) tert-Butyl Alcohol	5.559	59	44453m	26.437	ug/l	
24) Methyl tert-Butyl Ether	5.824	73	85226m	4.597	ug/l	
25) Chloroform	7.983	83	44052	4.226	ug/l	98
26) Cyclohexane	8.265	56	40724	4.417	ug/l #	99
29) 1,1-Dichloropropene	8.383	75	32960	4.387	ug/l	96
30) 2-Butanone	7.506	43	129580	21.617	ug/l #	97
31) 2,2-Dichloropropane	7.512	77	45488m	4.946	ug/l	
32) 1,1,1-Trichloroethane	8.183	97	38133	4.232	ug/l #	71
33) Carbon Tetrachloride	8.377	117	29028	3.923	ug/l #	86
34) Benzene	8.618	78	111230	4.479	ug/l #	90
35) Methacrylonitrile	7.783	41	25153m	4.083	ug/l	
36) 1,2-Dichloroethane	8.677	62	36886	4.460	ug/l #	88
37) Trichloroethene	9.359	130	22834	4.421	ug/l	85
38) Methylcyclohexane	9.600	83	40027	4.386	ug/l	99
39) 1,2-Dichloropropane	9.630	63	29351	4.559	ug/l #	81
40) Dibromomethane	9.712	93	19220	4.505	ug/l	98
41) Bromodichloromethane	9.888	83	37384	4.500	ug/l #	92
42) Vinyl Acetate	6.624	43	380005m	21.282	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	52817m	4.532	ug/l	
44) Isopropyl Acetate	8.694	43	74131	4.113	ug/l	97
45) 1,4-Dioxane	9.700	88	13313	80.557	ug/l #	85
46) Methyl methacrylate	9.682	41	26086	3.342	ug/l	95
47) n-amyl Acetate	12.494	43	57462	3.644	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	37619	3.947	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	42122	4.167	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	25367	4.041	ug/l #	89
51) Ethyl methacrylate	10.877	69	40868	3.828	ug/l	90
52) 1,3-Dichloropropane	11.171	76	45943	4.240	ug/l	98
53) Dibromochloromethane	11.359	129	25089	4.079	ug/l	94
54) 1,2-Dibromoethane	11.471	107	27465	4.554	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	71979	17.238	ug/l	96
56) Bromoform	12.582	173	16289	3.675	ug/l	94
58) 4-Methyl-2-Pentanone	10.453	43	243729	21.273	ug/l	93
59) 2-Hexanone	11.200	43	183624	20.825	ug/l	94
61) Tetrachloroethene	11.106	164	18617	4.740	ug/l	91
62) Toluene	10.635	91	114532	4.500	ug/l	96
64) Chlorobenzene	11.900	112	67075	4.636	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	24489	4.494	ug/l	96
66) Ethyl Benzene	11.965	91	114351	4.132	ug/l	93
67) m/p-Xylenes	12.071	106	87948	8.459	ug/l	94
68) o-Xylene	12.400	106	40306	3.814	ug/l	93
69) Styrene	12.418	104	64211	3.712	ug/l	97
70) Isopropylbenzene	12.694	105	111162	4.078	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	45052	4.418	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	37268m	4.351	ug/l	
73) Bromobenzene	12.982	156	25731	4.505	ug/l	85
74) n-propylbenzene	13.035	91	118724	3.736	ug/l	98
75) 2-Chlorotoluene	13.129	91	69235	3.724	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	90246	4.074	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	11208	3.149	ug/l	85
78) 4-Chlorotoluene	13.223	91	67477	3.803	ug/l	96
79) tert-butylbenzene	13.441	119	82815	4.203	ug/l	91
80) 1,2,4-Trimethylbenzene	13.482	105	86389	3.876	ug/l	95
81) sec-Butylbenzene	13.618	105	104962	3.707	ug/l	92
82) p-Isopropyltoluene	13.735	119	77223	3.432	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	41688	3.740	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	42228	3.945	ug/l	96
85) n-Butylbenzene	14.059	91	67384	3.393	ug/l	96
86) Hexachloroethane	14.329	117	15902	3.609	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	45603	4.121	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.717	75	6502	3.160	ug/l #	75
89) 1,2,4-Trichlorobenzene	15.400	180	18723	3.705	ug/l	100
90) Hexachlorobutadiene	15.500	225	11445	4.644	ug/l	95
91) Naphthalene	15.641	128	62357	3.109	ug/l	98
92) 1,2,3-Trichlorobenzene	15.400	180	18637	3.525	ug/l	98

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

