

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081155.D
 Acq On : 23 Feb 2024 11:51
 Operator : JC\MD
 Sample : P1187-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT1-2024

Quant Time: Feb 24 00:11:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/26/2024
 Supervised By : Mahesh Dadoda 02/26/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	60179	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	356380	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	318459	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	144520	31.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.533%			
60) 4-Bromofluorobenzene	12.853	95	145151	29.814	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.367%			
63) Toluene-d8	10.571	98	434106	30.375	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.267%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9427	2.304	ug/l	100
3) Chloromethane	2.359	50	11824	2.875	ug/l	96
4) Vinyl Chloride	2.512	62	11699	2.386	ug/l	91
5) Bromomethane	2.971	94	9719m	2.951	ug/l	
6) Chloroethane	3.124	64	7410m	2.319	ug/l	
7) Trichlorofluoromethane	3.500	101	17253	2.672	ug/l	97
8) Diethyl Ether	3.959	74	5868	2.586	ug/l	72
9) 1,1,2-Trichlorotrifluo...	4.383	101	9532m	2.720	ug/l	
10) 1,1-Dichloroethene	4.336	96	9463m	2.756	ug/l	
11) Methyl Iodide	4.583	142	7644m	2.078	ug/l	
12) Methyl Acetate	5.030	43	10596m	3.405	ug/l	
13) Acrolein	4.183	56	10526	15.510	ug/l #	69
14) Acrylonitrile	5.724	53	23878	15.452	ug/l	72
15) Acetone	4.447	58	4819m	13.556	ug/l	
16) Carbon Disulfide	4.718	76	24336	2.582	ug/l #	95
17) Allyl chloride	5.030	41	11632m	2.697	ug/l	
18) Methylene Chloride	5.265	84	11230m	2.861	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	9990m	2.562	ug/l	
20) Diisopropyl ether	6.677	45	29053m	2.803	ug/l	
21) 1,1-Dichloroethane	6.571	63	18512	2.787	ug/l #	92
22) cis-1,2-Dichloroethene	7.488	96	10036m	2.215	ug/l	
23) tert-Butyl Alcohol	5.512	59	8996m	15.980	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	28970	2.545	ug/l	100
25) Chloroform	7.971	83	19345	2.625	ug/l #	69
26) Cyclohexane	8.253	56	15509	3.100	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	13872	2.613	ug/l	86
30) 2-Butanone	7.482	43	29042	14.911	ug/l #	77
31) 2,2-Dichloropropane	7.488	77	15025m	2.486	ug/l	
32) 1,1,1-Trichloroethane	8.165	97	16960m	2.540	ug/l	
33) Carbon Tetrachloride	8.365	117	14132	2.512	ug/l #	88
34) Benzene	8.606	78	40332	2.486	ug/l #	75
35) Methacrylonitrile	7.782	41	7117	3.109	ug/l	95
36) 1,2-Dichloroethane	8.665	62	14398	2.645	ug/l	98
37) Trichloroethene	9.365	130	10984	2.547	ug/l #	72
38) Methylcyclohexane	9.606	83	16932	3.196	ug/l	97
39) 1,2-Dichloropropane	9.629	63	10994	2.857	ug/l	93
40) Dibromomethane	9.706	93	7927	2.708	ug/l	91
41) Bromodichloromethane	9.894	83	13722	2.395	ug/l #	96
42) Vinyl Acetate	6.606	43	111952	13.438	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	12604	3.107	ug/l #	87
44) Isopropyl Acetate	8.688	43	27090	3.717	ug/l #	83
45) 1,4-Dioxane	9.700	88	3814	55.172	ug/l #	85
46) Methyl methacrylate	9.682	41	8359	2.506	ug/l	89
47) n-amyl Acetate	12.500	43	16794	2.642	ug/l	90
48) t-1,3-Dichloropropene	10.841	75	14407	2.399	ug/l #	89
49) cis-1,3-Dichloropropene	10.318	75	15469	2.377	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	10135	2.502	ug/l	96
51) Ethyl methacrylate	10.876	69	12629	2.231	ug/l	96
52) 1,3-Dichloropropane	11.165	76	16377	2.448	ug/l	92
53) Dibromochloromethane	11.365	129	9796	2.219	ug/l	91
54) 1,2-Dibromoethane	11.476	107	9868	2.355	ug/l	92
55) 2-Chloroethyl vinyl ether	10.165	63	34006	11.721	ug/l	97
56) Bromoform	12.582	173	5319	1.892	ug/l #	93
58) 4-Methyl-2-Pentanone	10.447	43	61348	14.838	ug/l #	91
59) 2-Hexanone	11.200	43	43409	14.275	ug/l #	92
61) Tetrachloroethene	11.100	164	9324	2.563	ug/l	84
62) Toluene	10.629	91	43680	2.504	ug/l	98
64) Chlorobenzene	11.894	112	24563	2.299	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	9300	2.347	ug/l	96
66) Ethyl Benzene	11.965	91	48768	2.659	ug/l #	85
67) m/p-Xylenes	12.070	106	32471	4.508	ug/l	97
68) o-Xylene	12.394	106	17341	2.457	ug/l	91
69) Styrene	12.412	104	25885	2.227	ug/l	94
70) Isopropylbenzene	12.700	105	42167	2.451	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	13730	2.588	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	13597m	3.274	ug/l	
73) Bromobenzene	12.982	156	9641	2.254	ug/l	92
74) n-propylbenzene	13.041	91	51292	2.623	ug/l	100
75) 2-Chlorotoluene	13.129	91	31727	2.614	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	34832	2.475	ug/l	96
77) t-1,4-Dichloro-2-butene	12.741	75	3727	2.372	ug/l	98
78) 4-Chlorotoluene	13.229	91	30846	2.537	ug/l	96
79) tert-butylbenzene	13.441	119	31193	2.670	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	32947	2.349	ug/l	92
81) sec-Butylbenzene	13.617	105	42020	2.568	ug/l	97
82) p-Isopropyltoluene	13.735	119	33192	2.416	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	18215	2.367	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	17454	2.260	ug/l	96
85) n-Butylbenzene	14.059	91	27916	2.463	ug/l	98
86) Hexachloroethane	14.341	117	4987	2.302	ug/l	93
87) 1,2-Dichlorobenzene	14.111	146	18095	2.415	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3103	3.241	ug/l #	83
89) 1,2,4-Trichlorobenzene	15.847	180	9319	2.543	ug/l #	91
90) Hexachlorobutadiene	15.506	225	3854	2.397	ug/l	77
91) Naphthalene	15.641	128	30513	2.345	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	9319	2.543	ug/l	91

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

