

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101424\
 Data File : VN084407.D
 Acq On : 14 Oct 2024 11:42
 Operator : JC\MD
 Sample : P4368-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2024

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/15/2024
 Supervised By : Mahesh Dadoda 10/15/2024

Quant Time: Oct 15 01:32:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31593	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	159477	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151044	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77104	30.314	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	12.847	95	67795	27.196	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.667%			
63) Toluene-d8	10.565	98	212574	30.379	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	4507	2.337	ug/l	98
3) Chloromethane	2.359	50	5915	2.695	ug/l	89
4) Vinyl Chloride	2.518	62	5098	2.368	ug/l	96
5) Bromomethane	2.965	94	4141	2.904	ug/l	98
6) Chloroethane	3.118	64	4599m	3.259	ug/l	
7) Trichlorofluoromethane	3.500	101	8588	2.449	ug/l	95
8) Diethyl Ether	3.965	74	2611m	2.025	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.359	101	4690m	2.379	ug/l	
10) 1,1-Dichloroethene	4.353	96	4587m	2.332	ug/l	
11) Methyl Iodide	4.589	142	5478	2.119	ug/l	88
12) Methyl Acetate	5.036	43	5283m	2.145	ug/l	
13) Acrolein	4.171	56	4421m	9.664	ug/l	
14) Acrylonitrile	5.712	53	11269m	10.185	ug/l	
15) Acetone	4.442	58	3930	12.434	ug/l #	62
16) Carbon Disulfide	4.712	76	13774	2.351	ug/l #	94
17) Allyl chloride	5.036	41	6562m	2.058	ug/l	
18) Methylene Chloride	5.277	84	5762	2.600	ug/l #	83
19) trans-1,2-Dichloroethene	5.794	96	4416	2.121	ug/l	86
20) Diisopropyl ether	6.671	45	12860	1.876	ug/l	97
21) 1,1-Dichloroethane	6.571	63	8964m	2.279	ug/l	
22) cis-1,2-Dichloroethene	7.483	96	5357	2.211	ug/l #	63
23) tert-Butyl Alcohol	5.530	59	4029m	9.494	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	13040	1.984	ug/l #	88
25) Chloroform	7.971	83	9952	2.498	ug/l	85
26) Cyclohexane	8.253	56	6184	1.879	ug/l #	92
29) 1,1-Dichloropropene	8.365	75	5537	2.115	ug/l #	58
30) 2-Butanone	7.488	43	16099	11.550	ug/l #	96
31) 2,2-Dichloropropane	7.488	77	8414	2.735	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	8412	2.514	ug/l #	88
33) Carbon Tetrachloride	8.359	117	7563	2.609	ug/l	89
34) Benzene	8.606	78	20068	2.449	ug/l #	74
35) Methacrylonitrile	7.783	41	3185m	2.142	ug/l	
36) 1,2-Dichloroethane	8.671	62	6900	2.526	ug/l #	85
37) Trichloroethene	9.353	130	4968	2.633	ug/l #	75
38) Methylcyclohexane	9.594	83	5668	1.971	ug/l	91
39) 1,2-Dichloropropane	9.624	63	4899	2.451	ug/l	100
40) Dibromomethane	9.712	93	3395	2.431	ug/l	96
41) Bromodichloromethane	9.888	83	7465	2.518	ug/l	97
42) Vinyl Acetate	6.600	43	46441	9.580	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	5738	2.087	ug/l	95
44) Isopropyl Acetate	8.688	43	10874	2.417	ug/l	94
45) 1,4-Dioxane	9.688	88	1414	34.862	ug/l #	91
46) Methyl methacrylate	9.677	41	4298	1.977	ug/l	91
47) n-amyl Acetate	12.494	43	7289	1.821	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	6362	2.076	ug/l	91
49) cis-1,3-Dichloropropene	10.312	75	7457	2.322	ug/l	94
50) 1,1,2-Trichloroethane	11.023	97	5123	2.729	ug/l #	86
51) Ethyl methacrylate	10.871	69	5849	1.886	ug/l	96
52) 1,3-Dichloropropane	11.165	76	8102	2.468	ug/l	97
53) Dibromochloromethane	11.359	129	5186	2.338	ug/l	96
54) 1,2-Dibromoethane	11.471	107	4474	2.315	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	11753	8.357	ug/l	99
56) Bromoform	12.576	173	3368	2.290	ug/l #	36
58) 4-Methyl-2-Pentanone	10.447	43	28028	9.961	ug/l	94
59) 2-Hexanone	11.194	43	19591	9.370	ug/l	97
61) Tetrachloroethene	11.100	164	4481	2.623	ug/l	89
62) Toluene	10.629	91	21192	2.397	ug/l	98
64) Chlorobenzene	11.888	112	12963	2.356	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.959	131	4570	2.391	ug/l	94
66) Ethyl Benzene	11.965	91	19452	2.025	ug/l	93
67) m/p-Xylenes	12.070	106	14238	3.907	ug/l	99
68) o-Xylene	12.400	106	7251	2.064	ug/l	91
69) Styrene	12.412	104	10772	1.786	ug/l	96
70) Isopropylbenzene	12.694	105	15995	1.784	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	6456	2.327	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	6202m	2.610	ug/l	
73) Bromobenzene	12.976	156	4769	2.196	ug/l	96
74) n-propylbenzene	13.035	91	20056	1.877	ug/l	98
75) 2-Chlorotoluene	13.123	91	13805	2.079	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	14014	1.856	ug/l	96
77) t-1,4-Dichloro-2-butene	12.735	75	1686	1.661	ug/l	83
78) 4-Chlorotoluene	13.217	91	13862	2.053	ug/l	98
79) tert-butylbenzene	13.435	119	11274	1.750	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	12344	1.611	ug/l	96
81) sec-Butylbenzene	13.612	105	16657	1.878	ug/l	97
82) p-Isopropyltoluene	13.729	119	12571	1.684	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	8213	2.034	ug/l	93
84) 1,4-Dichlorobenzene	13.812	146	8295	2.069	ug/l	96
85) n-Butylbenzene	14.053	91	10116	1.565	ug/l	96
86) Hexachloroethane	14.335	117	3320	2.308	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	8197	2.099	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1216	2.143	ug/l	90
89) 1,2,4-Trichlorobenzene	15.841	180	3661m	1.803	ug/l	
90) Hexachlorobutadiene	15.506	225	2294	2.443	ug/l	87
91) Naphthalene	15.635	128	9172	1.333	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.841	180	3661m	1.803	ug/l	

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

