

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101524\
 Data File : VN084416.D
 Acq On : 15 Oct 2024 15:27
 Operator : JC\MD
 Sample : P4368-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2024

Quant Time: Oct 16 01:25:10 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

Manual Integrations APPROVED

Reviewed By : John Carlone 10/16/2024
 Supervised By : Mahesh Dadoda 10/16/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	31338	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	154647	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73379	29.084	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.933%
60) 4-Bromofluorobenzene	12.847	95	65188	27.210	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.700%
63) Toluene-d8	10.565	98	204288	30.378	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.267%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	4232	2.212	ug/l	91
3) Chloromethane	2.359	50	5716	2.625	ug/l	99
4) Vinyl Chloride	2.512	62	4897	2.293	ug/l	92
5) Bromomethane	2.959	94	3603	2.547	ug/l	83
6) Chloroethane	3.118	64	4666	3.333	ug/l	97
7) Trichlorofluoromethane	3.495	101	8596	2.472	ug/l	97
8) Diethyl Ether	3.965	74	2584	2.021	ug/l	47
9) 1,1,2-Trichlorotrifluo...	4.371	101	4787	2.448	ug/l	73
10) 1,1-Dichloroethene	4.336	96	4424	2.267	ug/l #	70
11) Methyl Iodide	4.589	142	5527	2.155	ug/l	87
12) Methyl Acetate	5.036	43	5604	2.294	ug/l	98
13) Acrolein	4.183	56	4117	9.073	ug/l	85
14) Acrylonitrile	5.730	53	12334	11.239	ug/l	76
15) Acetone	4.436	58	4672	14.902	ug/l	73
16) Carbon Disulfide	4.706	76	14102	2.427	ug/l	98
17) Allyl chloride	5.018	41	6903m	2.182	ug/l	
18) Methylene Chloride	5.265	84	5365m	2.441	ug/l	
19) trans-1,2-Dichloroethene	5.777	96	4966	2.405	ug/l	87
20) Diisopropyl ether	6.677	45	13712	2.016	ug/l	97
21) 1,1-Dichloroethane	6.571	63	9905	2.538	ug/l #	91
22) cis-1,2-Dichloroethene	7.477	96	5681m	2.364	ug/l	
23) tert-Butyl Alcohol	5.536	59	5081m	12.070	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	13944	2.138	ug/l #	86
25) Chloroform	7.965	83	10198	2.580	ug/l	95
26) Cyclohexane	8.253	56	6295	1.929	ug/l #	75
29) 1,1-Dichloropropene	8.371	75	6013	2.369	ug/l	81
30) 2-Butanone	7.483	43	18032	13.341	ug/l #	98
31) 2,2-Dichloropropane	7.489	77	7681	2.575	ug/l #	72
32) 1,1,1-Trichloroethane	8.171	97	8820	2.718	ug/l	98
33) Carbon Tetrachloride	8.359	117	7126m	2.535	ug/l	
34) Benzene	8.600	78	19672	2.475	ug/l #	67
35) Methacrylonitrile	7.783	41	3910	2.712	ug/l	89
36) 1,2-Dichloroethane	8.671	62	6879	2.597	ug/l #	84
37) Trichloroethene	9.347	130	5314	2.904	ug/l	97
38) Methylcyclohexane	9.594	83	6155	2.207	ug/l #	33
39) 1,2-Dichloropropane	9.618	63	5234	2.701	ug/l	95
40) Dibromomethane	9.712	93	3282	2.423	ug/l	92
41) Bromodichloromethane	9.888	83	7691	2.675	ug/l #	92
42) Vinyl Acetate	6.600	43	49703	10.573	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	6824	2.560	ug/l #	78
44) Isopropyl Acetate	8.688	43	10393	2.382	ug/l	98
45) 1,4-Dioxane	9.688	88	1857	47.214	ug/l #	95
46) Methyl methacrylate	9.688	41	4420m	2.097	ug/l	
47) n-amyl Acetate	12.488	43	7207	1.857	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	6868	2.312	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	7220	2.319	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	4816	2.646	ug/l #	88
51) Ethyl methacrylate	10.871	69	5769	1.919	ug/l	93
52) 1,3-Dichloropropane	11.165	76	8047	2.528	ug/l	99
53) Dibromochloromethane	11.359	129	5252	2.442	ug/l	96
54) 1,2-Dibromoethane	11.476	107	4534	2.420	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	14293	10.480	ug/l	98
56) Bromoform	12.576	173	3554	2.492	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	29210	10.802	ug/l	99
59) 2-Hexanone	11.194	43	22419	11.157	ug/l	92
61) Tetrachloroethene	11.100	164	4296	2.616	ug/l	83
62) Toluene	10.629	91	21098	2.483	ug/l	97
64) Chlorobenzene	11.888	112	13476	2.548	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	4791	2.608	ug/l	97
66) Ethyl Benzene	11.965	91	19958	2.162	ug/l	99
67) m/p-Xylenes	12.076	106	14178	4.048	ug/l	100
68) o-Xylene	12.394	106	6568	1.945	ug/l	98
69) Styrene	12.412	104	10427	1.799	ug/l	97
70) Isopropylbenzene	12.694	105	16540	1.919	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	7204	2.702	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	5134m	2.248	ug/l	
73) Bromobenzene	12.982	156	5026	2.408	ug/l	95
74) n-propylbenzene	13.035	91	20360	1.982	ug/l	99
75) 2-Chlorotoluene	13.123	91	13836	2.168	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	13739	1.893	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	2080	2.132	ug/l	89
78) 4-Chlorotoluene	13.218	91	13443	2.072	ug/l	98
79) tert-butylbenzene	13.441	119	11856	1.915	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	13454	1.827	ug/l	100
81) sec-Butylbenzene	13.618	105	15912	1.867	ug/l	95
82) p-Isopropyltoluene	13.729	119	12181	1.698	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	8510	2.193	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	8081	2.097	ug/l	95
85) n-Butylbenzene	14.053	91	10146	1.633	ug/l	97
86) Hexachloroethane	14.335	117	3260	2.359	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	7832	2.087	ug/l	90
88) 1,2-Dibromo-3-Chloropr...	14.723	75	1285	2.357	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	3633	1.862	ug/l #	91
90) Hexachlorobutadiene	15.506	225	2253m	2.496	ug/l	
91) Naphthalene	15.641	128	9622	1.455	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.847	180	3633	1.862	ug/l	91

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

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