

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050824\
 Data File : VN082028.D
 Acq On : 08 May 2024 11:57
 Operator : JC\MD
 Sample : P2403-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2024

Quant Time: May 09 01:02:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/09/2024
 Supervised By : Mahesh Dadoda 05/09/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	33133	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	191749	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	169643	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	85858	30.950	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.167%			
60) 4-Bromofluorobenzene	12.853	95	80506	28.516	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.067%			
63) Toluene-d8	10.571	98	247091	30.670	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	5663	3.011	ug/l	100
3) Chloromethane	2.359	50	7535	3.455	ug/l	89
4) Vinyl Chloride	2.512	62	6802	3.301	ug/l	93
5) Bromomethane	2.971	94	3999m	3.719	ug/l	
6) Chloroethane	3.124	64	4846	4.153	ug/l	94
7) Trichlorofluoromethane	3.495	101	8392m	2.783	ug/l	
8) Diethyl Ether	3.971	74	4860m	3.330	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	6530m	3.159	ug/l	
10) 1,1-Dichloroethene	4.353	96	5537m	2.738	ug/l	
11) Methyl Iodide	4.589	142	4181m	2.262	ug/l	
12) Methyl Acetate	5.030	43	8589m	3.392	ug/l	
13) Acrolein	4.177	56	6197m	11.515	ug/l	
14) Acrylonitrile	5.736	53	16846m	14.577	ug/l	
15) Acetone	4.430	58	4672m	18.042	ug/l	
16) Carbon Disulfide	4.712	76	17615	3.144	ug/l #	89
17) Allyl chloride	5.018	41	10926	3.077	ug/l	88
18) Methylene Chloride	5.271	84	8104m	3.522	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	6175	2.934	ug/l	94
20) Diisopropyl ether	6.665	45	22101	2.814	ug/l #	84
21) 1,1-Dichloroethane	6.565	63	13194m	3.172	ug/l	
22) cis-1,2-Dichloroethene	7.488	96	7816	3.047	ug/l	93
23) tert-Butyl Alcohol	5.524	59	6750m	14.180	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	19918	2.732	ug/l #	83
25) Chloroform	7.965	83	11428	2.856	ug/l	92
26) Cyclohexane	8.253	56	11340m	3.153	ug/l	
29) 1,1-Dichloropropene	8.371	75	8109	2.841	ug/l	94
30) 2-Butanone	7.488	43	22977	15.615	ug/l #	78
31) 2,2-Dichloropropane	7.494	77	10305m	3.523	ug/l	
32) 1,1,1-Trichloroethane	8.177	97	9227	2.810	ug/l #	73
33) Carbon Tetrachloride	8.365	117	7564	2.839	ug/l	90
34) Benzene	8.612	78	28072	3.082	ug/l #	84
35) Methacrylonitrile	7.777	41	5257m	2.824	ug/l	
36) 1,2-Dichloroethane	8.671	62	9171	3.000	ug/l	95
37) Trichloroethene	9.347	130	5703	2.557	ug/l #	72
38) Methylcyclohexane	9.600	83	10051	2.915	ug/l	85
39) 1,2-Dichloropropane	9.630	63	6775	2.899	ug/l	94
40) Dibromomethane	9.706	93	4231	2.818	ug/l	65
41) Bromodichloromethane	9.888	83	8974	2.797	ug/l #	86
42) Vinyl Acetate	6.600	43	87863	14.028	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	10897m	3.396	ug/l	
44) Isopropyl Acetate	8.688	43	16539	2.904	ug/l #	79
45) 1,4-Dioxane	9.694	88	2278m	49.870	ug/l	
46) Methyl methacrylate	9.688	41	7911	3.040	ug/l	77
47) n-amyl Acetate	12.494	43	14037	2.732	ug/l	89
48) t-1,3-Dichloropropene	10.841	75	9461	2.719	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	10828	2.943	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	6035	2.963	ug/l #	93
51) Ethyl methacrylate	10.877	69	10062	2.618	ug/l	80
52) 1,3-Dichloropropane	11.159	76	11432	3.055	ug/l	93
53) Dibromochloromethane	11.359	129	5797	2.616	ug/l	95
54) 1,2-Dibromoethane	11.476	107	6070	2.988	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	23969	12.470	ug/l #	93
56) Bromoform	12.582	173	3483	2.583	ug/l #	66
58) 4-Methyl-2-Pentanone	10.441	43	46811	14.211	ug/l #	87
59) 2-Hexanone	11.194	43	35419	14.502	ug/l #	89
61) Tetrachloroethene	11.106	164	4862	2.583	ug/l #	75
62) Toluene	10.629	91	27611	2.893	ug/l	94
64) Chlorobenzene	11.888	112	15699	2.689	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	4711	2.465	ug/l	83
66) Ethyl Benzene	11.965	91	28325	2.707	ug/l #	88
67) m/p-Xylenes	12.076	106	21066	5.431	ug/l	100
68) o-Xylene	12.406	106	10869	2.832	ug/l	96
69) Styrene	12.418	104	16002	2.484	ug/l	97
70) Isopropylbenzene	12.694	105	24511	2.515	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	7903	2.817	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	6582m	2.510	ug/l	
73) Bromobenzene	12.976	156	5444	2.609	ug/l	78
74) n-propylbenzene	13.035	91	29915	2.601	ug/l	99
75) 2-Chlorotoluene	13.123	91	18682	2.626	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	20743	2.629	ug/l	94
77) t-1,4-Dichloro-2-butene	12.735	75	3516	3.012	ug/l	88
78) 4-Chlorotoluene	13.223	91	17838	2.559	ug/l	93
79) tert-butylbenzene	13.441	119	16082	2.367	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	19077	2.407	ug/l	88
81) sec-Butylbenzene	13.617	105	24874	2.612	ug/l	98
82) p-Isopropyltoluene	13.729	119	18032	2.395	ug/l	95
83) 1,3-Dichlorobenzene	13.735	146	9718	2.587	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	8835	2.340	ug/l	92
85) n-Butylbenzene	14.053	91	17662	2.568	ug/l	94
86) Hexachloroethane	14.341	117	3767	2.509	ug/l	71
87) 1,2-Dichlorobenzene	14.106	146	10154	2.714	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1578	2.507	ug/l #	72
89) 1,2,4-Trichlorobenzene	15.841	180	4535	2.201	ug/l #	85
90) Hexachlorobutadiene	15.506	225	1786	2.340	ug/l	57
91) Naphthalene	15.647	128	16924	2.161	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.841	180	4535	2.201	ug/l	85

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

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