

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050824\
 Data File : VN082026.D
 Acq On : 08 May 2024 10:46
 Operator : JC\MD
 Sample : VN0508WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBSD01

Manual Integrations
 APPROVED

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

Quant Time: May 09 01:01:48 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

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

Internal Standards						
1) Bromochloromethane	7.818	128	29999	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	167295	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	152392	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	76229	30.350	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.167%			
60) 4-Bromofluorobenzene	12.847	95	72876	28.735	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.800%			
63) Toluene-d8	10.565	98	215523	29.780	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.267%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	29865	17.538	ug/l	99
3) Chloromethane	2.365	50	40756	20.637	ug/l	95
4) Vinyl Chloride	2.518	62	38267	20.512	ug/l	96
5) Bromomethane	2.965	94	18897	19.412	ug/l	96
6) Chloroethane	3.124	64	23747	22.479	ug/l	94
7) Trichlorofluoromethane	3.501	101	48357	17.714	ug/l	91
8) Diethyl Ether	3.965	74	28397	21.488	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.383	101	32173	17.191	ug/l	90
10) 1,1-Dichloroethene	4.348	96	32652	17.834	ug/l	95
11) Methyl Iodide	4.589	142	29573	17.674	ug/l	82
12) Methyl Acetate	5.024	43	57942	25.274	ug/l #	78
13) Acrolein	4.177	56	45219	92.806	ug/l	93
14) Acrylonitrile	5.718	53	117935	112.714	ug/l	98
15) Acetone	4.424	58	28638	122.143	ug/l	98
16) Carbon Disulfide	4.706	76	84125	16.585	ug/l #	95
17) Allyl chloride	5.024	41	66179	20.588	ug/l	77
18) Methylene Chloride	5.277	84	43822	21.036	ug/l #	88
19) trans-1,2-Dichloroethene	5.789	96	36164	18.976	ug/l	96
20) Diisopropyl ether	6.671	45	153969	21.649	ug/l	95
21) 1,1-Dichloroethane	6.565	63	78253	20.779	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	45543	19.610	ug/l	87
23) tert-Butyl Alcohol	5.506	59	44133m	102.400	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	139421m	21.122	ug/l	
25) Chloroform	7.965	83	76506	21.117	ug/l	94
26) Cyclohexane	8.253	56	60230	18.495	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	50013	20.081	ug/l	95
30) 2-Butanone	7.483	43	153184	119.317	ug/l #	92
31) 2,2-Dichloropropane	7.489	77	64384	25.225	ug/l #	84
32) 1,1,1-Trichloroethane	8.165	97	58505	20.424	ug/l #	67
33) Carbon Tetrachloride	8.359	117	45336	19.502	ug/l	93
34) Benzene	8.606	78	175065	22.033	ug/l	96
35) Methacrylonitrile	7.777	41	34612	21.310	ug/l	89
36) 1,2-Dichloroethane	8.671	62	59847	22.437	ug/l #	91
37) Trichloroethene	9.359	130	34854	17.909	ug/l	92
38) Methylcyclohexane	9.606	83	57596	19.143	ug/l	96
39) 1,2-Dichloropropane	9.624	63	47005	23.056	ug/l	93
40) Dibromomethane	9.706	93	28966	22.116	ug/l	84
41) Bromodichloromethane	9.888	83	59303	21.184	ug/l #	94
42) Vinyl Acetate	6.600	43	627857m	114.898	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	63488	22.681	ug/l	97
44) Isopropyl Acetate	8.688	43	116452	23.433	ug/l #	87
45) 1,4-Dioxane	9.700	88	18600	466.707	ug/l #	94
46) Methyl methacrylate	9.677	41	51872	22.848	ug/l	80
47) n-amyl Acetate	12.494	43	97963m	21.856	ug/l	
48) t-1,3-Dichloropropene	10.841	75	67540	22.248	ug/l	92
49) cis-1,3-Dichloropropene	10.318	75	74221	23.124	ug/l	90
50) 1,1,2-Trichloroethane	11.018	97	42067	23.674	ug/l	92
51) Ethyl methacrylate	10.877	69	75118	22.399	ug/l	75
52) 1,3-Dichloropropane	11.165	76	75782	23.213	ug/l	100
53) Dibromochloromethane	11.365	129	40526	20.962	ug/l	97
54) 1,2-Dibromoethane	11.471	107	38391	21.664	ug/l	94
55) 2-Chloroethyl vinyl ether	10.159	63	241719	144.136	ug/l	96
56) Bromoform	12.582	173	23286	19.790	ug/l #	94
58) 4-Methyl-2-Pentanone	10.447	43	343654	116.139	ug/l #	85
59) 2-Hexanone	11.194	43	253327m	115.467	ug/l	
61) Tetrachloroethene	11.106	164	28270	16.718	ug/l #	90
62) Toluene	10.630	91	177841	20.741	ug/l	97
64) Chlorobenzene	11.894	112	109695	20.916	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	35174	20.491	ug/l	89
66) Ethyl Benzene	11.965	91	187660	19.967	ug/l	96
67) m/p-Xylenes	12.071	106	142329	40.844	ug/l	99
68) o-Xylene	12.400	106	69936	20.285	ug/l	98
69) Styrene	12.412	104	117371	20.280	ug/l	100
70) Isopropylbenzene	12.700	105	169475	19.355	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	60399	23.970	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	51693m	21.943	ug/l	
73) Bromobenzene	12.982	156	36342	19.389	ug/l	74
74) n-propylbenzene	13.035	91	208898	20.221	ug/l	98
75) 2-Chlorotoluene	13.129	91	128208	20.061	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	139308	19.655	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	23833	22.730	ug/l	94
78) 4-Chlorotoluene	13.223	91	124876	19.945	ug/l	100
79) tert-butylbenzene	13.441	119	115615	18.946	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	142388	20.001	ug/l	96
81) sec-Butylbenzene	13.618	105	169153	19.775	ug/l	99
82) p-Isopropyltoluene	13.729	119	134704	19.915	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	67810	20.092	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	65321	19.256	ug/l	96
85) n-Butylbenzene	14.059	91	123675	20.017	ug/l	97
86) Hexachloroethane	14.335	117	25570	18.959	ug/l	74
87) 1,2-Dichlorobenzene	14.106	146	64947	19.321	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11113	19.654	ug/l	89
89) 1,2,4-Trichlorobenzene	15.841	180	32833	17.739	ug/l	95
90) Hexachlorobutadiene	15.506	225	12398	18.086	ug/l	97
91) Naphthalene	15.641	128	137820	19.587	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	32833	17.739	ug/l	95

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

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