

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079997.D
 Acq On : 08 Nov 2023 17:57
 Operator : JC\MD
 Sample : VN1108WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1108WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/09/2023
 Supervised By : Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 04:27:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	78810	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	440237	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	402994	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	202888	30.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.233%			
60) 4-Bromofluorobenzene	12.853	95	192499	29.870	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.567%			
63) Toluene-d8	10.571	98	580658	30.409	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	100924	19.640	ug/l	96
3) Chloromethane	2.359	50	132938	20.536	ug/l	98
4) Vinyl Chloride	2.512	62	124305	22.979	ug/l	98
5) Bromomethane	2.954	94	58485	19.746	ug/l	93
6) Chloroethane	3.118	64	66369	21.123	ug/l	97
7) Trichlorofluoromethane	3.495	101	161505	19.893	ug/l	98
8) Diethyl Ether	3.959	74	56675	19.446	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	89612	19.537	ug/l	96
10) 1,1-Dichloroethene	4.342	96	87029	21.448	ug/l	90
11) Methyl Iodide	4.595	142	108608	20.237	ug/l	96
12) Methyl Acetate	5.024	43	204778	19.466	ug/l	94
13) Acrolein	4.189	56	86855	97.721	ug/l	98
14) Acrylonitrile	5.718	53	248922	99.623	ug/l	99
15) Acetone	4.424	58	70934	84.076	ug/l	84
16) Carbon Disulfide	4.712	76	252477	18.222	ug/l	98
17) Allyl chloride	5.024	41	134420	18.959	ug/l	97
18) Methylene Chloride	5.277	84	106582	19.587	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	98732	19.631	ug/l	94
20) Diisopropyl ether	6.677	45	328694	19.838	ug/l	97
21) 1,1-Dichloroethane	6.571	63	193861	19.601	ug/l #	94
22) cis-1,2-Dichloroethene	7.494	96	111795	19.154	ug/l	98
23) tert-Butyl Alcohol	5.524	59	74537	110.518	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	290039	19.413	ug/l	99
25) Chloroform	7.965	83	196877	19.284	ug/l	99
26) Cyclohexane	8.259	56	150237	19.309	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	145588	19.269	ug/l	100
30) 2-Butanone	7.489	43	343801	95.279	ug/l	100
31) 2,2-Dichloropropane	7.494	77	155850	19.085	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	169616	19.664	ug/l	100
33) Carbon Tetrachloride	8.365	117	146340	19.302	ug/l	95
34) Benzene	8.606	78	436234	19.436	ug/l	97
35) Methacrylonitrile	7.783	41	71089	18.791	ug/l	95
36) 1,2-Dichloroethane	8.671	62	156395	19.254	ug/l	100
37) Trichloroethene	9.359	130	103464	19.168	ug/l	95
38) Methylcyclohexane	9.606	83	131732	18.568	ug/l	99
39) 1,2-Dichloropropane	9.624	63	113535	19.111	ug/l	98
40) Dibromomethane	9.712	93	73546	19.153	ug/l	98
41) Bromodichloromethane	9.894	83	156575	19.687	ug/l	100
42) Vinyl Acetate	6.606	43	871508	97.236	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	139064	20.516	ug/l	97
44) Isopropyl Acetate	8.694	43	212810	19.268	ug/l	95
45) 1,4-Dioxane	9.700	88	35396	415.847	ug/l #	93
46) Methyl methacrylate	9.688	41	104375	19.659	ug/l	91
47) n-amyl Acetate	12.500	43	170309	19.196	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	154330	19.001	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	174264	19.408	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	102968	19.657	ug/l	95
51) Ethyl methacrylate	10.877	69	144544	19.198	ug/l	97
52) 1,3-Dichloropropane	11.165	76	184349	19.685	ug/l	99
53) Dibromochloromethane	11.359	129	107027	19.099	ug/l	100
54) 1,2-Dibromoethane	11.471	107	100286	19.066	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	334557	96.613	ug/l	99
56) Bromoform	12.582	173	69636	18.964	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	683601	101.535	ug/l	98
59) 2-Hexanone	11.200	43	502271	97.933	ug/l	98
61) Tetrachloroethene	11.106	164	93892	19.873	ug/l	95
62) Toluene	10.635	91	455952	19.562	ug/l	99
64) Chlorobenzene	11.894	112	268344	19.292	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	100149	19.628	ug/l	96
66) Ethyl Benzene	11.965	91	472789	19.303	ug/l	100
67) m/p-Xylenes	12.076	106	357404	39.195	ug/l	94
68) o-Xylene	12.400	106	172817	19.773	ug/l	99
69) Styrene	12.412	104	283674	19.606	ug/l	99
70) Isopropylbenzene	12.700	105	421912	19.352	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	146708	19.757	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	133274m	19.317	ug/l	
73) Bromobenzene	12.982	156	102003	19.031	ug/l	94
74) n-propylbenzene	13.041	91	505671	19.389	ug/l	99
75) 2-Chlorotoluene	13.129	91	318901	19.237	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	355318	19.705	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	42688	18.895	ug/l	97
78) 4-Chlorotoluene	13.223	91	316513	19.224	ug/l	99
79) tert-butylbenzene	13.441	119	271795	19.246	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	349014	19.739	ug/l	98
81) sec-Butylbenzene	13.618	105	386644	19.396	ug/l	100
82) p-Isopropyltoluene	13.735	119	312279	19.289	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	184415	18.883	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	182719	19.061	ug/l	97
85) n-Butylbenzene	14.059	91	246137	18.178	ug/l	96
86) Hexachloroethane	14.335	117	59552	18.917	ug/l	94
87) 1,2-Dichlorobenzene	14.106	146	179646	19.254	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	26050	19.184	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	80431	18.607	ug/l	96
90) Hexachlorobutadiene	15.506	225	37526	17.615	ug/l	97
91) Naphthalene	15.647	128	243559	17.558	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	80431	18.607	ug/l	96

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

