

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078813.D
 Acq On : 09 Aug 2023 11:53
 Operator : JC\MD
 Sample : VN0809WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/10/2023
 Supervised By : Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 05:26:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	30613	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	171747	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	155327	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	76814	31.167	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.900%			
60) 4-Bromofluorobenzene	12.853	95	62654	28.737	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.800%			
63) Toluene-d8	10.571	98	223560	29.371	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	39540	18.738	ug/l	99
3) Chloromethane	2.371	50	50535	20.111	ug/l	93
4) Vinyl Chloride	2.524	62	50663	21.188	ug/l	93
5) Bromomethane	2.959	94	31330	18.013	ug/l	97
6) Chloroethane	3.130	64	32118	18.910	ug/l	97
7) Trichlorofluoromethane	3.507	101	64850	19.761	ug/l	94
8) Diethyl Ether	3.971	74	24661	21.133	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.377	101	35241m	20.018	ug/l	
10) 1,1-Dichloroethene	4.354	96	34381	20.166	ug/l	93
11) Methyl Iodide	4.595	142	46322	20.368	ug/l	95
12) Methyl Acetate	5.036	43	73504	19.836	ug/l	92
13) Acrolein	4.189	56	34086	86.848	ug/l	99
14) Acrylonitrile	5.724	53	97755	100.118	ug/l	99
15) Acetone	4.442	58	24352	96.797	ug/l	71
16) Carbon Disulfide	4.724	76	97473	19.750	ug/l	95
17) Allyl chloride	5.036	41	57299	19.227	ug/l	89
18) Methylene Chloride	5.289	84	44008	20.685	ug/l #	88
19) trans-1,2-Dichloroethene	5.801	96	39339	20.096	ug/l	96
20) Diisopropyl ether	6.677	45	140873	21.051	ug/l #	92
21) 1,1-Dichloroethane	6.583	63	76635	20.086	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	44113	20.331	ug/l	91
23) tert-Butyl Alcohol	5.536	59	35421m	97.627	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	119405	20.925	ug/l #	91
25) Chloroform	7.971	83	76862	20.292	ug/l	97
26) Cyclohexane	8.265	56	59090	19.663	ug/l #	93
29) 1,1-Dichloropropene	8.377	75	55472	19.881	ug/l	98
30) 2-Butanone	7.489	43	139048	101.672	ug/l #	90
31) 2,2-Dichloropropane	7.500	77	56916	19.782	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	66685	20.294	ug/l	97
33) Carbon Tetrachloride	8.365	117	55146	19.445	ug/l	89
34) Benzene	8.612	78	171883	20.245	ug/l	99
35) Methacrylonitrile	7.789	41	30785	19.170	ug/l	83
36) 1,2-Dichloroethane	8.677	62	62015	20.895	ug/l	100
37) Trichloroethene	9.359	130	40682	19.913	ug/l	98
38) Methylcyclohexane	9.606	83	49757	18.835	ug/l	88
39) 1,2-Dichloropropane	9.630	63	44661	19.883	ug/l	96
40) Dibromomethane	9.712	93	31291	20.920	ug/l	97
41) Bromodichloromethane	9.894	83	61656	20.457	ug/l	95
42) Vinyl Acetate	6.612	43	429336	99.762	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	58208m	20.503	ug/l	
44) Isopropyl Acetate	8.694	43	98503	19.322	ug/l	94
45) 1,4-Dioxane	9.700	88	13465m	393.684	ug/l	
46) Methyl methacrylate	9.683	41	44114	20.435	ug/l	86
47) n-amyl Acetate	12.500	43	70993	19.920	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	63126	20.743	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	68607	20.271	ug/l #	90
50) 1,1,2-Trichloroethane	11.024	97	42657	20.988	ug/l	94
51) Ethyl methacrylate	10.883	69	57859	20.310	ug/l	76
52) 1,3-Dichloropropane	11.171	76	75015	21.495	ug/l	99
53) Dibromochloromethane	11.365	129	44716	21.080	ug/l	99
54) 1,2-Dibromoethane	11.471	107	40838	20.566	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	108538	103.307	ug/l	97
56) Bromoform	12.582	173	26833	20.207	ug/l #	72
58) 4-Methyl-2-Pentanone	10.453	43	295365	98.931	ug/l #	92
59) 2-Hexanone	11.200	43	205086	98.851	ug/l	88
61) Tetrachloroethene	11.112	164	37395	21.043	ug/l	94
62) Toluene	10.635	91	183929	20.113	ug/l	99
64) Chlorobenzene	11.894	112	104423	19.505	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	41080	19.917	ug/l	95
66) Ethyl Benzene	11.971	91	179501	18.900	ug/l	96
67) m/p-Xylenes	12.071	106	137114	39.374	ug/l	99
68) o-Xylene	12.400	106	68161	19.664	ug/l	99
69) Styrene	12.418	104	104640	19.757	ug/l	99
70) Isopropylbenzene	12.700	105	169375	19.783	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	57623	19.861	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	53188m	21.002	ug/l	
73) Bromobenzene	12.988	156	38781	18.952	ug/l	94
74) n-propylbenzene	13.041	91	182720	19.286	ug/l	98
75) 2-Chlorotoluene	13.129	91	113494	19.230	ug/l	100
76) 1,3,5-Trimethylbenzene	13.182	105	135719	19.958	ug/l	98
77) t-1,4-Dichloro-2-butene	12.747	75	16442	20.684	ug/l	87
78) 4-Chlorotoluene	13.229	91	103364	18.878	ug/l	99
79) tert-butylbenzene	13.441	119	101123	18.125	ug/l	89
80) 1,2,4-Trimethylbenzene	13.488	105	125844	19.612	ug/l	99
81) sec-Butylbenzene	13.624	105	142754	19.111	ug/l	99
82) p-Isopropyltoluene	13.735	119	107171	18.317	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	59843	18.923	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	55439	18.357	ug/l	97
85) n-Butylbenzene	14.065	91	75420	17.517	ug/l	96
86) Hexachloroethane	14.341	117	23128	18.767	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	61139	19.651	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	7942	19.273	ug/l	89
89) 1,2,4-Trichlorobenzene	15.400	180	13188m	15.315	ug/l	
90) Hexachlorobutadiene	15.512	225	12077	19.049	ug/l	96
91) Naphthalene	15.647	128	37887	14.069	ug/l	97
92) 1,2,3-Trichlorobenzene	15.841	180	17462	17.289	ug/l	97

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

