

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091123\
 Data File : VN079210.D
 Acq On : 11 Sep 2023 11:08
 Operator : JC\MD
 Sample : VN0911WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/12/2023
 Supervised By : Mahesh Dadoda 09/12/2023

Quant Time: Sep 12 02:44:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	23664	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	130065	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	117349	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	54778	30.810	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.700%			
60) 4-Bromofluorobenzene	12.853	95	51283	29.659	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.867%			
63) Toluene-d8	10.571	98	164569	30.008	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	22021	16.685	ug/l	98
3) Chloromethane	2.365	50	25430	19.216	ug/l	94
4) Vinyl Chloride	2.518	62	30623	23.388	ug/l	92
5) Bromomethane	2.953	94	14810	18.430	ug/l	96
6) Chloroethane	3.124	64	20939m	26.113	ug/l	
7) Trichlorofluoromethane	3.500	101	46564	29.872	ug/l	93
8) Diethyl Ether	3.965	74	16628	29.093	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	26091	30.373	ug/l	99
10) 1,1-Dichloroethene	4.342	96	24564	29.512	ug/l	99
11) Methyl Iodide	4.594	142	19122	18.238	ug/l	95
12) Methyl Acetate	5.030	43	50843	26.212	ug/l	99
13) Acrolein	4.183	56	16614	94.044	ug/l	97
14) Acrylonitrile	5.724	53	70065	123.121	ug/l	99
15) Acetone	4.436	58	20543	138.382	ug/l	100
16) Carbon Disulfide	4.718	76	65928	26.806	ug/l	97
17) Allyl chloride	5.030	41	37288	27.880	ug/l	93
18) Methylene Chloride	5.277	84	30398	27.229	ug/l	93
19) trans-1,2-Dichloroethene	5.794	96	27724	26.622	ug/l	96
20) Diisopropyl ether	6.677	45	87561	21.930	ug/l	92
21) 1,1-Dichloroethane	6.571	63	53297	22.785	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	33064	20.302	ug/l	99
23) tert-Butyl Alcohol	5.530	59	24340	111.183	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	84384	25.688	ug/l #	85
25) Chloroform	7.971	83	55972	19.844	ug/l	97
26) Cyclohexane	8.265	56	38121	17.972	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	39613	18.996	ug/l	97
30) 2-Butanone	7.488	43	93044	88.707	ug/l	98
31) 2,2-Dichloropropane	7.494	77	45242	21.750	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	49418	20.115	ug/l	98
33) Carbon Tetrachloride	8.365	117	42390	20.086	ug/l	92
34) Benzene	8.612	78	122492	18.488	ug/l	99
35) Methacrylonitrile	7.788	41	20277	17.954	ug/l	95
36) 1,2-Dichloroethane	8.677	62	41195	18.853	ug/l	98
37) Trichloroethene	9.359	130	29436	18.796	ug/l	95
38) Methylcyclohexane	9.606	83	37503	17.989	ug/l	98
39) 1,2-Dichloropropane	9.624	63	31648	18.518	ug/l	96
40) Dibromomethane	9.718	93	21534	19.106	ug/l	98
41) Bromodichloromethane	9.894	83	45192	20.115	ug/l	90
42) Vinyl Acetate	6.612	43	254710	102.253	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	34875	17.507	ug/l	99
44) Isopropyl Acetate	8.694	43	63882	17.827	ug/l	97
45) 1,4-Dioxane	9.700	88	11491	322.151	ug/l	95
46) Methyl methacrylate	9.688	41	28708	17.931	ug/l	94
47) n-amyl Acetate	12.500	43	44764	17.762	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	44873	18.461	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	49512	19.528	ug/l	94
50) 1,1,2-Trichloroethane	11.023	97	30976	19.591	ug/l	91
51) Ethyl methacrylate	10.876	69	41636	17.051	ug/l	94
52) 1,3-Dichloropropane	11.165	76	52192	19.335	ug/l	98
53) Dibromochloromethane	11.365	129	33269	20.062	ug/l	99
54) 1,2-Dibromoethane	11.470	107	30499	18.996	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	82649	95.256	ug/l	99
56) Bromoform	12.582	173	22630	19.584	ug/l	95
58) 4-Methyl-2-Pentanone	10.447	43	187532	87.086	ug/l	99
59) 2-Hexanone	11.200	43	132563	87.655	ug/l	99
61) Tetrachloroethene	11.112	164	26344	20.631	ug/l	93
62) Toluene	10.635	91	131860	19.299	ug/l	98
64) Chlorobenzene	11.894	112	77694	19.492	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	31029	20.333	ug/l	99
66) Ethyl Benzene	11.970	91	135940	19.760	ug/l	99
67) m/p-Xylenes	12.076	106	103950	40.157	ug/l	99
68) o-Xylene	12.406	106	50360	20.173	ug/l	97
69) Styrene	12.417	104	81656	20.507	ug/l	98
70) Isopropylbenzene	12.700	105	127027	20.018	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	43660	18.393	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	35414m	17.731	ug/l	
73) Bromobenzene	12.988	156	31446	19.838	ug/l	92
74) n-propylbenzene	13.041	91	145704	20.153	ug/l	99
75) 2-Chlorotoluene	13.129	91	91185	19.669	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	105026	20.017	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	12115	17.228	ug/l	94
78) 4-Chlorotoluene	13.229	91	86651	19.795	ug/l	99
79) tert-butylbenzene	13.441	119	88161	20.471	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	103017	20.559	ug/l	99
81) sec-Butylbenzene	13.623	105	120014	20.367	ug/l	98
82) p-Isopropyltoluene	13.735	119	98884	21.245	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	53279	21.165	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	48230	20.429	ug/l	98
85) n-Butylbenzene	14.064	91	72549	20.465	ug/l	100
86) Hexachloroethane	14.341	117	19087	20.712	ug/l	99
87) 1,2-Dichlorobenzene	14.111	146	52354	21.074	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	6848	17.067	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	18979	17.853	ug/l	96
90) Hexachlorobutadiene	15.506	225	12813	19.843	ug/l	98
91) Naphthalene	15.647	128	43974	15.830	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	18979	17.853	ug/l	96

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

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