

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079178.D
 Acq On : 07 Sep 2023 16:42
 Operator : JC\MD
 Sample : VN0907WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/08/2023
 Supervised By : Semsettin Yesilyurt 09/08/2023

Quant Time: Sep 08 05:42:45 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	7.818	128	28816	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	155865	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	143926	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	65406	30.211	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	12.859	95	57762	27.238	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.800%			
63) Toluene-d8	10.577	98	198272	29.478	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	29261	18.207	ug/l	95
3) Chloromethane	2.365	50	21775	13.512	ug/l	99
4) Vinyl Chloride	2.512	62	23795	14.924	ug/l	93
5) Bromomethane	2.948	94	16536	16.898	ug/l	99
6) Chloroethane	3.112	64	16338	16.732	ug/l #	73
7) Trichlorofluoromethane	3.495	101	33166	17.473	ug/l	89
8) Diethyl Ether	3.965	74	13297	19.106	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	19154m	18.311	ug/l	
10) 1,1-Dichloroethene	4.336	96	18660	18.411	ug/l	96
11) Methyl Iodide	4.589	142	24529	19.213	ug/l	96
12) Methyl Acetate	5.036	43	52142	22.075	ug/l	95
13) Acrolein	4.189	56	18072	84.007	ug/l	97
14) Acrylonitrile	5.730	53	103355m	149.148	ug/l	
15) Acetone	4.436	58	19139	105.874	ug/l	95
16) Carbon Disulfide	4.712	76	53427	17.839	ug/l	98
17) Allyl chloride	5.024	41	31701	19.465	ug/l	95
18) Methylene Chloride	5.277	84	37610	27.666	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	31467	24.814	ug/l	98
20) Diisopropyl ether	6.683	45	109285	22.477	ug/l	94
21) 1,1-Dichloroethane	6.577	63	61333	21.533	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	38919	19.625	ug/l	99
23) tert-Butyl Alcohol	5.536	59	37018	138.862	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	105681	26.419	ug/l	99
25) Chloroform	7.971	83	64041	18.645	ug/l	96
26) Cyclohexane	8.265	56	45894	17.768	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	44254	17.709	ug/l	98
30) 2-Butanone	7.494	43	132278	105.237	ug/l	99
31) 2,2-Dichloropropane	7.494	77	47661	19.120	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	52339	17.777	ug/l	99
33) Carbon Tetrachloride	8.371	117	45708	18.073	ug/l	98
34) Benzene	8.612	78	144679	18.222	ug/l	99
35) Methacrylonitrile	7.794	41	26838	19.830	ug/l	95
36) 1,2-Dichloroethane	8.677	62	48508	18.525	ug/l	99
37) Trichloroethene	9.359	130	33770	17.995	ug/l	97
38) Methylcyclohexane	9.606	83	44980	18.004	ug/l	98
39) 1,2-Dichloropropane	9.624	63	39209	19.144	ug/l	100
40) Dibromomethane	9.718	93	25522	18.896	ug/l	98
41) Bromodichloromethane	9.894	83	51033	18.955	ug/l	97
42) Vinyl Acetate	6.612	43	343430	115.048	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	54385	22.782	ug/l	99
44) Isopropyl Acetate	8.700	43	82301	19.165	ug/l	99
45) 1,4-Dioxane	9.700	88	17616	412.117	ug/l	97
46) Methyl methacrylate	9.688	41	37801	19.703	ug/l	97
47) n-amyl Acetate	12.500	43	60888	20.161	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	51833	17.795	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	58787	19.349	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	37470	19.775	ug/l	96
51) Ethyl methacrylate	10.882	69	55896	19.102	ug/l	98
52) 1,3-Dichloropropane	11.171	76	64347	19.892	ug/l	99
53) Dibromochloromethane	11.365	129	38759	19.503	ug/l	100
54) 1,2-Dibromoethane	11.476	107	36865	19.160	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	118328	113.803	ug/l	99
56) Bromoform	12.576	173	22505	16.252	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	267537	101.297	ug/l	100
59) 2-Hexanone	11.200	43	193094	104.103	ug/l	99
61) Tetrachloroethene	11.112	164	29043	18.545	ug/l	95
62) Toluene	10.635	91	154279	18.410	ug/l	100
64) Chlorobenzene	11.900	112	90288	18.468	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	35082	18.744	ug/l	97
66) Ethyl Benzene	11.971	91	157096	18.618	ug/l	99
67) m/p-Xylenes	12.076	106	119817	37.739	ug/l	100
68) o-Xylene	12.406	106	59299	19.367	ug/l	98
69) Styrene	12.418	104	96032	19.664	ug/l	99
70) Isopropylbenzene	12.706	105	136873	17.587	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	57155	19.632	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	47261m	19.293	ug/l	
73) Bromobenzene	12.988	156	36550	18.801	ug/l	99
74) n-propylbenzene	13.041	91	169646	19.131	ug/l	99
75) 2-Chlorotoluene	13.129	91	108544	19.090	ug/l	98
76) 1,3,5-Trimethylbenzene	13.182	105	123319	19.164	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	13928	16.149	ug/l	90
78) 4-Chlorotoluene	13.229	91	101790	18.959	ug/l	98
79) tert-butylbenzene	13.447	119	101891	19.290	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	119470	19.440	ug/l	99
81) sec-Butylbenzene	13.623	105	137421	19.015	ug/l	98
82) p-Isopropyltoluene	13.735	119	112423	19.694	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	60268	19.520	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	57623	19.900	ug/l	100
85) n-Butylbenzene	14.065	91	85474	19.659	ug/l	100
86) Hexachloroethane	14.341	117	21594	19.106	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	61156	20.072	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10444	21.223	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	25947	19.901	ug/l	99
90) Hexachlorobutadiene	15.506	225	14894	18.807	ug/l	99
91) Naphthalene	15.647	128	64479	18.925	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	25947	19.901	ug/l	99

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

