

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077277.D
 Acq On : 07 Apr 2023 14:20
 Operator : JC\MD
 Sample : VN0407WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0407WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 08 05:19:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	54109	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	381754	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	427516	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	135327	29.489	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.300%		
60) 4-Bromofluorobenzene	12.854	95	216275	29.257	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.533%		
63) Toluene-d8	10.572	98	444481	29.575	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.567%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	85595	16.640	ug/l	94
3) Chloromethane	2.372	50	119100	17.428	ug/l	99
4) Vinyl Chloride	2.525	62	163221	16.674	ug/l	97
5) Bromomethane	2.960	94	129748	17.590	ug/l	98
6) Chloroethane	3.125	64	110911	16.904	ug/l	91
7) Trichlorofluoromethane	3.502	101	151178	16.587	ug/l	99
8) Diethyl Ether	3.966	74	72705	18.715	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.378	101	99112	17.390	ug/l	85
10) 1,1-Dichloroethene	4.349	96	93584m	16.414	ug/l	
11) Methyl Iodide	4.601	142	114049	17.706	ug/l	99
12) Methyl Acetate	5.043	43	160155	18.854	ug/l	98
13) Acrolein	4.190	56	101553	96.313	ug/l	96
14) Acrylonitrile	5.725	53	268368	92.425	ug/l	91
15) Acetone	4.437	58	87707	83.261	ug/l	92
16) Carbon Disulfide	4.725	76	250284	16.631	ug/l #	93
17) Allyl chloride	5.037	41	124526	16.966	ug/l	98
18) Methylene Chloride	5.290	84	119191	18.002	ug/l	97
19) trans-1,2-Dichloroethene	5.796	96	106768	17.222	ug/l	99
20) Diisopropyl ether	6.678	45	311232	17.792	ug/l	95
21) 1,1-Dichloroethane	6.578	63	196016	17.679	ug/l	95
22) cis-1,2-Dichloroethene	7.495	96	135272	17.899	ug/l	99
23) tert-Butyl Alcohol	5.525	59	121674	94.240	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	381539	18.588	ug/l #	84
25) Chloroform	7.972	83	214973	17.890	ug/l	100
26) Cyclohexane	8.260	56	160600	16.669	ug/l #	99
29) 1,1-Dichloropropene	8.378	75	150236	18.167	ug/l	99
30) 2-Butanone	7.490	43	363849	93.039	ug/l	99
31) 2,2-Dichloropropane	7.490	77	178996	17.632	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	183110	17.992	ug/l	100
33) Carbon Tetrachloride	8.366	117	155481	17.900	ug/l	92
34) Benzene	8.607	78	489376	19.125	ug/l	98
35) Methacrylonitrile	7.778	41	71325	19.361	ug/l	93
36) 1,2-Dichloroethane	8.672	62	164708	20.531	ug/l	99
37) Trichloroethene	9.354	130	115442	18.445	ug/l	92
38) Methylcyclohexane	9.601	83	206640	18.424	ug/l	98
39) 1,2-Dichloropropane	9.625	63	119577	18.825	ug/l	95
40) Dibromomethane	9.713	93	88120	19.254	ug/l	98
41) Bromodichloromethane	9.889	83	175415	19.221	ug/l	97
42) Vinyl Acetate	6.607	43	1140777	100.790	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	143715	19.863	ug/l	98
44) Isopropyl Acetate	8.695	43	260384	20.100	ug/l #	100
45) 1,4-Dioxane	9.701	88	56621	414.429	ug/l	95
46) Methyl methacrylate	9.684	41	113650	20.376	ug/l	100
47) n-amyl Acetate	12.495	43	225330	19.904	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	196793	19.268	ug/l	95
49) cis-1,3-Dichloropropene	10.313	75	209128	19.247	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	133943	20.148	ug/l	98
51) Ethyl methacrylate	10.878	69	211034	20.671	ug/l	96
52) 1,3-Dichloropropane	11.166	76	223241	20.120	ug/l	100
53) Dibromochloromethane	11.360	129	136956	19.547	ug/l	99
54) 1,2-Dibromoethane	11.472	107	132347	19.831	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	282134	89.510	ug/l	98
56) Bromoform	12.583	173	92896	19.737	ug/l	100
58) 4-Methyl-2-Pentanone	10.448	43	793609	99.144	ug/l	100
59) 2-Hexanone	11.195	43	582930	94.215	ug/l	99
61) Tetrachloroethene	11.107	164	90250	17.749	ug/l	97
62) Toluene	10.631	91	549970	18.437	ug/l	100
64) Chlorobenzene	11.895	112	329804	18.199	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	128709	19.314	ug/l	98
66) Ethyl Benzene	11.966	91	613134	18.554	ug/l	97
67) m/p-Xylenes	12.072	106	481435	37.167	ug/l	98
68) o-Xylene	12.401	106	238988	18.442	ug/l	100
69) Styrene	12.413	104	391036	18.835	ug/l	99
70) Isopropylbenzene	12.701	105	592532	18.017	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	198123	19.672	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	161963m	23.658	ug/l	
73) Bromobenzene	12.983	156	127035	19.013	ug/l	97
74) n-propylbenzene	13.042	91	658818	18.106	ug/l	99
75) 2-Chlorotoluene	13.130	91	404803	18.570	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	490052	18.308	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	63376	18.175	ug/l	96
78) 4-Chlorotoluene	13.224	91	385649	18.724	ug/l	99
79) tert-butylbenzene	13.442	119	424206	18.210	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	483810	18.542	ug/l	98
81) sec-Butylbenzene	13.619	105	603602	18.143	ug/l	99
82) p-Isopropyltoluene	13.730	119	486547	18.254	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	232127	18.323	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	223983	18.223	ug/l	100
85) n-Butylbenzene	14.060	91	390977	17.751	ug/l	99
86) Hexachloroethane	14.336	117	99830	17.607	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	231597	18.657	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.724	75	35916	18.610	ug/l	94
89) 1,2,4-Trichlorobenzene	15.371	180	83832	17.169	ug/l	99
90) Hexachlorobutadiene	15.465	225	47137	18.823	ug/l	97
91) Naphthalene	15.589	128	328781	17.626	ug/l	99
92) 1,2,3-Trichlorobenzene	15.760	180	79097	16.602	ug/l	98

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

