

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073607.D
 Acq On : 27 Jul 2022 15:13
 Operator : JC\MD
 Sample : VN0727WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 27 18:11:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	51446	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	269525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	252400	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	135083	30.369	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.233%			
60) 4-Bromofluorobenzene	12.668	95	134779	30.158	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.533%			
63) Toluene-d8	10.380	98	429832	30.244	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	65935	18.856	ug/l	92
3) Chloromethane	2.269	50	93438	20.210	ug/l	97
4) Vinyl Chloride	2.404	62	104591	18.432	ug/l	99
5) Bromomethane	2.810	94	70594	24.489	ug/l	94
6) Chloroethane	2.975	64	69691	18.128	ug/l	93
7) Trichlorofluoromethane	3.316	101	103278	18.504	ug/l	97
8) Diethyl Ether	3.763	74	44766	19.932	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.140	101	62984m	18.718	ug/l	
10) 1,1-Dichloroethene	4.116	96	58786	18.252	ug/l	96
11) Methyl Iodide	4.351	142	58390	15.716	ug/l	89
12) Methyl Acetate	4.781	43	111377	20.347	ug/l	100
13) Acrolein	3.981	56	90221	93.758	ug/l	99
14) Acrylonitrile	5.469	53	255555	101.156	ug/l	97
15) Acetone	4.222	58	69288	98.654	ug/l	86
16) Carbon Disulfide	4.457	76	156684	17.802	ug/l	96
17) Allyl chloride	4.763	41	97334	18.117	ug/l	91
18) Methylene Chloride	5.016	84	84048	20.594	ug/l	98
19) trans-1,2-Dichloroethene	5.516	96	68394	19.152	ug/l	97
20) Diisopropyl ether	6.410	45	232187	19.867	ug/l	95
21) 1,1-Dichloroethane	6.310	63	132140	19.161	ug/l	99
22) cis-1,2-Dichloroethene	7.251	96	86700	20.182	ug/l	93
23) tert-Butyl Alcohol	5.287	59	93937	105.215	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	235043	20.707	ug/l	93
25) Chloroform	7.745	83	140237	19.701	ug/l	99
26) Cyclohexane	8.022	56	104365	17.545	ug/l #	96
29) 1,1-Dichloropropene	8.151	75	92718	18.411	ug/l	98
30) 2-Butanone	7.257	43	352261	101.185	ug/l	100
31) 2,2-Dichloropropane	7.245	77	96074	18.283	ug/l	100
32) 1,1,1-Trichloroethane	7.939	97	110887	19.023	ug/l	99
33) Carbon Tetrachloride	8.133	117	93107	18.628	ug/l	97
34) Benzene	8.392	78	318585	19.549	ug/l	99
35) Methacrylonitrile	7.557	41	55544	19.655	ug/l	94
36) 1,2-Dichloroethane	8.463	62	111887	20.821	ug/l #	94
37) Trichloroethene	9.151	130	77763	19.396	ug/l	91
38) Methylcyclohexane	9.392	83	114442	18.306	ug/l	98
39) 1,2-Dichloropropane	9.427	63	82472	20.060	ug/l	99
40) Dibromomethane	9.516	93	58266	20.885	ug/l	91
41) Bromodichloromethane	9.698	83	106957	19.586	ug/l	97
42) Vinyl Acetate	6.351	43	1010034	100.684	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.339	43	143689	21.741	ug/l	99
44) Isopropyl Acetate	8.492	43	189650	20.635	ug/l	95
45) 1,4-Dioxane	9.504	88	44767	408.503	ug/l	95
46) Methyl methacrylate	9.498	41	78591	19.122	ug/l	84
47) n-amyl Acetate	12.327	43	138502	18.903	ug/l	95
48) t-1,3-Dichloropropene	10.657	75	106919	19.017	ug/l	99
49) cis-1,3-Dichloropropene	10.127	75	122874	19.684	ug/l #	89
50) 1,1,2-Trichloroethane	10.839	97	85907	20.526	ug/l	98
51) Ethyl methacrylate	10.704	69	121596	19.325	ug/l	85
52) 1,3-Dichloropropane	10.986	76	141763	20.095	ug/l	99
53) Dibromochloromethane	11.180	129	83782	19.753	ug/l	99
54) 1,2-Dibromoethane	11.286	107	86077	20.181	ug/l	95
55) 2-Chloroethyl vinyl ether	9.980	63	272736	96.640	ug/l	98
56) Bromoform	12.398	173	63207	18.963	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	678565	103.973	ug/l	95
59) 2-Hexanone	11.027	43	516896	102.827	ug/l	94
61) Tetrachloroethene	10.916	164	75246	19.463	ug/l	92
62) Toluene	10.445	91	345756	19.699	ug/l	98
64) Chlorobenzene	11.710	112	209234	19.952	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	77931	20.019	ug/l	98
66) Ethyl Benzene	11.786	91	353583	18.843	ug/l	96
67) m/p-Xylenes	11.892	106	277941	38.753	ug/l	98
68) o-Xylene	12.221	106	137570	19.312	ug/l	99
69) Styrene	12.233	104	225555	19.210	ug/l	97
70) Isopropylbenzene	12.521	105	345588	18.975	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.768	83	132743	20.728	ug/l	97
72) 1,2,3-Trichloropropane	12.821	75	116944m	21.865	ug/l	
73) Bromobenzene	12.798	156	89404	19.762	ug/l	97
74) n-propylbenzene	12.863	91	394293	18.603	ug/l	99
75) 2-Chlorotoluene	12.945	91	244171	19.218	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	294977	19.337	ug/l	95
77) t-1,4-Dichloro-2-butene	12.568	75	38164	19.580	ug/l	87
78) 4-Chlorotoluene	13.045	91	233737	19.151	ug/l	100
79) tert-butylbenzene	13.263	119	256791	19.471	ug/l	93
80) 1,2,4-Trimethylbenzene	13.310	105	292615	19.365	ug/l #	80
81) sec-Butylbenzene	13.439	105	352725	18.626	ug/l	99
82) p-Isopropyltoluene	13.557	119	289357	18.611	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	159720	19.287	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	155349	19.447	ug/l	98
85) n-Butylbenzene	13.880	91	220630	17.506	ug/l	97
86) Hexachloroethane	14.151	117	51978	18.230	ug/l	82
87) 1,2-Dichlorobenzene	13.927	146	164955	19.702	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.545	75	27601	19.732	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.198	180	84443	18.325	ug/l	96
90) Hexachlorobutadiene	15.304	225	43347	18.572	ug/l	98
91) Naphthalene	15.439	128	286639	18.944	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	90589	19.137	ug/l	97

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

