

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077499.D
 Acq On : 28 Apr 2023 12:22
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 16:08:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:05:06 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	73638	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	520127	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	587657	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	186846	28.039	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.467%		
60) 4-Bromofluorobenzene	12.848	95	323407	31.168	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.900%		
63) Toluene-d8	10.572	98	619864	29.981	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.131	85	435536	44.642	ug/l	98
3) Chloromethane	2.372	50	306441	43.386	ug/l	99
4) Vinyl Chloride	2.525	62	431336	43.646	ug/l	98
5) Bromomethane	2.943	94	324895	38.978	ug/l	99
6) Chloroethane	3.125	64	290869	42.913	ug/l	93
7) Trichlorofluoromethane	3.501	101	638908	43.915	ug/l	96
8) Diethyl Ether	3.972	74	230509	45.264	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.378	101	365880	44.120	ug/l	99
10) 1,1-Dichloroethene	4.354	96	354480	44.867	ug/l	97
11) Methyl Iodide	4.601	142	464823	47.624	ug/l	97
12) Methyl Acetate	5.031	43	503097	44.235	ug/l	97
13) Acrolein	4.190	56	297102	217.101	ug/l	97
14) Acrylonitrile	5.725	53	779994	221.905	ug/l	98
15) Acetone	4.437	58	239449	215.445	ug/l	76
16) Carbon Disulfide	4.725	76	889111	44.276	ug/l	99
17) Allyl chloride	5.025	41	388400	45.381	ug/l	99
18) Methylene Chloride	5.284	84	404258	43.635	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	390277	44.708	ug/l	94
20) Diisopropyl ether	6.678	45	917401	45.633	ug/l	93
21) 1,1-Dichloroethane	6.578	63	666729	45.081	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	466736	44.741	ug/l	99
23) tert-Butyl Alcohol	5.531	59	328666	214.705	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	1240332	45.287	ug/l	98
25) Chloroform	7.972	83	768824	45.261	ug/l	99
26) Cyclohexane	8.260	56	539751	44.976	ug/l #	95
29) 1,1-Dichloropropene	8.378	75	548306	48.535	ug/l	99
30) 2-Butanone	7.489	43	963949	236.538	ug/l	99
31) 2,2-Dichloropropane	7.495	77	648139	48.499	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	712476	48.703	ug/l	98
33) Carbon Tetrachloride	8.366	117	618433	49.032	ug/l	97
34) Benzene	8.613	78	1663190	48.173	ug/l	96
35) Methacrylonitrile	7.789	41	197056	46.481	ug/l	99
36) 1,2-Dichloroethane	8.672	62	560773	47.511	ug/l	100
37) Trichloroethene	9.354	130	422117	47.689	ug/l	94
38) Methylcyclohexane	9.607	83	733012	49.297	ug/l	98
39) 1,2-Dichloropropane	9.625	63	380313	47.696	ug/l	94
40) Dibromomethane	9.713	93	303012	47.809	ug/l	99
41) Bromodichloromethane	9.889	83	622442	49.486	ug/l	97
42) Vinyl Acetate	6.607	43	3299059m	280.441	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	372923m	45.966	ug/l	
44) Isopropyl Acetate	8.689	43	682056	47.975	ug/l	97
45) 1,4-Dioxane	9.701	88	161027	934.734	ug/l	98
46) Methyl methacrylate	9.683	41	311210	48.337	ug/l	97
47) n-amyl Acetate	12.495	43	590128	51.066	ug/l	100
48) t-1,3-Dichloropropene	10.836	75	654118	50.812	ug/l	95
49) cis-1,3-Dichloropropene	10.313	75	694413	49.887	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	436615	48.198	ug/l	98
51) Ethyl methacrylate	10.877	69	625983	49.814	ug/l	95
52) 1,3-Dichloropropane	11.166	76	704969	48.084	ug/l	98
53) Dibromochloromethane	11.360	129	470514	50.156	ug/l	99
54) 1,2-Dibromoethane	11.471	107	450141	49.017	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	1089697	266.615	ug/l	99
56) Bromoform	12.583	173	299731	51.117	ug/l	96
58) 4-Methyl-2-Pentanone	10.448	43	1997806	227.602	ug/l	100
59) 2-Hexanone	11.195	43	1475187	227.101	ug/l	100
61) Tetrachloroethene	11.107	164	330462	45.800	ug/l	89
62) Toluene	10.630	91	1936088	46.787	ug/l	100
64) Chlorobenzene	11.895	112	1176916	46.863	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.960	131	429115	47.650	ug/l	97
66) Ethyl Benzene	11.966	91	2150088	47.580	ug/l	99
67) m/p-Xylenes	12.071	106	1692405	95.932	ug/l	99
68) o-Xylene	12.401	106	836165	48.119	ug/l	99
69) Styrene	12.413	104	1342531	49.072	ug/l	99
70) Isopropylbenzene	12.701	105	2161969	48.397	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	631508	46.762	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	534125m	46.991	ug/l	
73) Bromobenzene	12.983	156	444296	46.989	ug/l	98
74) n-propylbenzene	13.036	91	2462396	49.581	ug/l	99
75) 2-Chlorotoluene	13.124	91	1484495	48.566	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	1814684	52.854	ug/l	98
77) t-1,4-Dichloro-2-butene	12.742	75	193763	50.297	ug/l	95
78) 4-Chlorotoluene	13.224	91	1437768	50.013	ug/l	99
79) tert-butylbenzene	13.442	119	1536153	48.607	ug/l	100
80) 1,2,4-Trimethylbenzene	13.483	105	1742924	54.679	ug/l	99
81) sec-Butylbenzene	13.618	105	2223502	49.753	ug/l	100
82) p-Isopropyltoluene	13.730	119	1782452	50.919	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	831764	48.965	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	822605	48.978	ug/l	100
85) n-Butylbenzene	14.060	91	1508029	54.501	ug/l	99
86) Hexachloroethane	14.336	117	350167	49.741	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	823815	48.457	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.724	75	120346	47.513	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	287491	57.875	ug/l	95
90) Hexachlorobutadiene	15.501	225	173581	48.009	ug/l	98
91) Naphthalene	15.642	128	1118904	60.262	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	273173	57.272	ug/l	94

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

