

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073601.D
 Acq On : 27 Jul 2022 12:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

Quant Time: Jul 27 13:11:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 13:09:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	56460	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	297954	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	289914	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	144213	26.988	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.967%#		
60) 4-Bromofluorobenzene	12.674	95	156964	28.611	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.367%		
63) Toluene-d8	10.380	98	488977	30.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.500%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	189612	44.357	ug/l	99
3) Chloromethane	2.269	50	257684	58.083	ug/l	95
4) Vinyl Chloride	2.404	62	311810	73.312	ug/l	98
5) Bromomethane	2.799	94	173111	103.917	ug/l	96
6) Chloroethane	2.963	64	205634	76.212	ug/l	99
7) Trichlorofluoromethane	3.316	101	294086	43.794	ug/l	98
8) Diethyl Ether	3.763	74	119414	44.120	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.140	101	175932m	46.749	ug/l	
10) 1,1-Dichloroethene	4.110	96	170944	45.091	ug/l	100
11) Methyl Iodide	4.346	142	201529	53.352	ug/l	90
12) Methyl Acetate	4.775	43	296264	38.591	ug/l	100
13) Acrolein	3.981	56	257929	300.600	ug/l	98
14) Acrylonitrile	5.475	53	689789	228.001	ug/l	99
15) Acetone	4.216	58	183059	221.425	ug/l	92
16) Carbon Disulfide	4.457	76	470715	46.422	ug/l	99
17) Allyl chloride	4.763	41	292903	41.364	ug/l	88
18) Methylene Chloride	5.010	84	209844	45.771	ug/l	99
19) trans-1,2-Dichloroethene	5.510	96	195051	48.186	ug/l	98
20) Diisopropyl ether	6.410	45	639347	42.655	ug/l	93
21) 1,1-Dichloroethane	6.304	63	369565	46.074	ug/l	98
22) cis-1,2-Dichloroethene	7.245	96	232204	48.286	ug/l	97
23) tert-Butyl Alcohol	5.287	59	242650	201.286	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	621018	44.446	ug/l	92
25) Chloroform	7.745	83	383604	47.606	ug/l	97
26) Cyclohexane	8.022	56	328665	47.105	ug/l #	99
29) 1,1-Dichloropropene	8.151	75	282599	51.890	ug/l	98
30) 2-Butanone	7.257	43	967211	236.354	ug/l	100
31) 2,2-Dichloropropane	7.245	77	285174	88.012	ug/l	100
32) 1,1,1-Trichloroethane	7.945	97	314927	47.515	ug/l	98
33) Carbon Tetrachloride	8.133	117	271688	48.613	ug/l	99
34) Benzene	8.392	78	892787	52.384	ug/l	98
35) Methacrylonitrile	7.569	41	156601	42.932	ug/l	97
36) 1,2-Dichloroethane	8.463	62	292759	47.201	ug/l	96
37) Trichloroethene	9.151	130	216888	51.262	ug/l	99
38) Methylcyclohexane	9.398	83	352014	54.603	ug/l	97
39) 1,2-Dichloropropane	9.428	63	225060	51.107	ug/l	94
40) Dibromomethane	9.516	93	152503	51.294	ug/l	90
41) Bromodichloromethane	9.698	83	294889	49.311	ug/l	98
42) Vinyl Acetate	6.351	43	2830661	226.168	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	377614	50.166	ug/l	100
44) Isopropyl Acetate	8.492	43	519721	44.233	ug/l	96
45) 1,4-Dioxane	9.504	88	124272	1124.173	ug/l	94
46) Methyl methacrylate	9.498	41	228364	42.807	ug/l	85
47) n-amyl Acetate	12.333	43	427188	45.515	ug/l	97
48) t-1,3-Dichloropropene	10.657	75	312702	55.524	ug/l	99
49) cis-1,3-Dichloropropene	10.128	75	346390	56.204	ug/l #	89
50) 1,1,2-Trichloroethane	10.839	97	233641	54.147	ug/l	98
51) Ethyl methacrylate	10.704	69	359312	50.520	ug/l	86
52) 1,3-Dichloropropane	10.986	76	392982	52.955	ug/l	99
53) Dibromochloromethane	11.180	129	235050	52.270	ug/l	100
54) 1,2-Dibromoethane	11.286	107	237615	52.655	ug/l	98
55) 2-Chloroethyl vinyl ether	9.980	63	804789	263.259	ug/l	99
56) Bromoform	12.398	173	186961	56.457	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	1876329	227.247	ug/l	95
59) 2-Hexanone	11.027	43	1472756	233.286	ug/l	95
61) Tetrachloroethene	10.916	164	215820	55.328	ug/l	91
62) Toluene	10.445	91	995700	51.218	ug/l	98
64) Chlorobenzene	11.710	112	594381	51.085	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	219680	49.854	ug/l	99
66) Ethyl Benzene	11.786	91	1089293	51.222	ug/l	98
67) m/p-Xylenes	11.892	106	844259	105.413	ug/l	98
68) o-Xylene	12.221	106	416555	51.940	ug/l	98
69) Styrene	12.233	104	697238	53.794	ug/l	97
70) Isopropylbenzene	12.521	105	1082242	52.549	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	367026	51.131	ug/l	98
72) 1,2,3-Trichloropropane	12.821	75	326695m	57.998	ug/l	
73) Bromobenzene	12.798	156	264298	54.455	ug/l	98
74) n-propylbenzene	12.863	91	1261187	53.557	ug/l	99
75) 2-Chlorotoluene	12.945	91	738643	50.558	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	902041	52.354	ug/l	95
77) t-1,4-Dichloro-2-butene	12.569	75	113443	62.438	ug/l	94
78) 4-Chlorotoluene	13.045	91	715097	50.968	ug/l	100
79) tert-butylbenzene	13.263	119	783122	51.992	ug/l	94
80) 1,2,4-Trimethylbenzene	13.310	105	907014m	53.687	ug/l	
81) sec-Butylbenzene	13.439	105	1126003	54.691	ug/l	98
82) p-Isopropyltoluene	13.557	119	934089	55.929	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	484837	56.394	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	468523	54.768	ug/l	98
85) n-Butylbenzene	13.880	91	760344	55.818	ug/l	97
86) Hexachloroethane	14.151	117	164029	50.396	ug/l	81
87) 1,2-Dichlorobenzene	13.927	146	487625	54.156	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.545	75	78621	44.351	ug/l #	78
89) 1,2,4-Trichlorobenzene	15.198	180	274019	58.343	ug/l	96
90) Hexachlorobutadiene	15.304	225	132518	65.846	ug/l	97
91) Naphthalene	15.439	128	931291	52.412	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	284460	59.034	ug/l	98

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

