

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074353.D
 Acq On : 08 Sep 2022 12:48
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2022
 Supervised By : Mahesh Dadoda 09/09/2022

Quant Time: Sep 08 13:45:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 08 13:42:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.581	128	65841	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	403372	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	375013	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	222614	37.135	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 123.767%#			
60) 4-Bromofluorobenzene	12.674	95	222899	32.677	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 108.933%			
63) Toluene-d8	10.380	98	640747	30.494	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	99162	21.708	ug/l	95
3) Chloromethane	2.269	50	139476	22.977	ug/l	97
4) Vinyl Chloride	2.410	62	144515	19.957	ug/l	100
5) Bromomethane	2.793	94	101166	26.250	ug/l	100
6) Chloroethane	2.957	64	98569	20.103	ug/l	94
7) Trichlorofluoromethane	3.316	101	165303	22.389	ug/l	100
8) Diethyl Ether	3.763	74	71018	23.372	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.146	101	94861	21.523	ug/l	72
10) 1,1-Dichloroethene	4.110	96	94617	22.153	ug/l	88
11) Methyl Iodide	4.351	142	115208	22.842	ug/l	97
12) Methyl Acetate	4.775	43	193973	25.675	ug/l	92
13) Acrolein	3.975	56	129142	103.863	ug/l	96
14) Acrylonitrile	5.469	53	383957	114.692	ug/l	97
15) Acetone	4.222	58	103430	111.552	ug/l	91
16) Carbon Disulfide	4.451	76	264634	22.556	ug/l #	93
17) Allyl chloride	4.757	41	196787	26.151	ug/l	92
18) Methylene Chloride	5.010	84	113508	21.231	ug/l	94
19) trans-1,2-Dichloroethene	5.510	96	103521	22.102	ug/l	96
20) Diisopropyl ether	6.410	45	415840	25.734	ug/l	93
21) 1,1-Dichloroethane	6.304	63	215268	23.286	ug/l	99
22) cis-1,2-Dichloroethene	7.245	96	127905	22.307	ug/l	95
23) tert-Butyl Alcohol	5.281	59	172238	135.939	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	387916	24.825	ug/l	99
25) Chloroform	7.745	83	219537	23.170	ug/l	96
26) Cyclohexane	8.022	56	202865	24.813	ug/l #	91
29) 1,1-Dichloropropene	8.151	75	162197	21.135	ug/l	95
30) 2-Butanone	7.257	43	589435	110.356	ug/l	96
31) 2,2-Dichloropropane	7.245	77	204920	24.490	ug/l	96
32) 1,1,1-Trichloroethane	7.939	97	197364	22.063	ug/l	96
33) Carbon Tetrachloride	8.133	117	166886	21.699	ug/l	98
34) Benzene	8.392	78	503333	20.550	ug/l	99
35) Methacrylonitrile	7.557	41	101421	23.641	ug/l	97
36) 1,2-Dichloroethane	8.457	62	183589	22.307	ug/l	99
37) Trichloroethene	9.151	130	112699	18.894	ug/l	93
38) Methylcyclohexane	9.392	83	198960	20.823	ug/l	95
39) 1,2-Dichloropropane	9.428	63	130732	21.054	ug/l	93
40) Dibromomethane	9.522	93	88188	20.923	ug/l	98
41) Bromodichloromethane	9.698	83	178185	21.420	ug/l	99
42) Vinyl Acetate	6.345	43	1906640	120.332	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	236685	22.755	ug/l #	82
44) Isopropyl Acetate	8.492	43	363743	24.798	ug/l	99
45) 1,4-Dioxane	9.504	88	68249	412.695	ug/l	93
46) Methyl methacrylate	9.498	41	154212	23.752	ug/l	90
47) n-amyl Acetate	12.333	43	325715	26.760	ug/l	94
48) t-1,3-Dichloropropene	10.657	75	200691	22.621	ug/l	98
49) cis-1,3-Dichloropropene	10.127	75	207209	21.554	ug/l	98
50) 1,1,2-Trichloroethane	10.839	97	122798	19.605	ug/l #	88
51) Ethyl methacrylate	10.704	69	222378	22.541	ug/l	97
52) 1,3-Dichloropropane	10.986	76	221245	20.680	ug/l	100
53) Dibromochloromethane	11.180	129	132834	20.578	ug/l	96
54) 1,2-Dibromoethane	11.286	107	129916	20.157	ug/l	99
55) 2-Chloroethyl vinyl ether	9.980	63	518584	116.610	ug/l	98
56) Bromoform	12.398	173	93678	18.597	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	1211118	119.681	ug/l	97
59) 2-Hexanone	11.027	43	935108	119.605	ug/l	99
61) Tetrachloroethene	10.916	164	91509	16.613	ug/l	96
62) Toluene	10.445	91	546805	20.795	ug/l	99
64) Chlorobenzene	11.710	112	317688	20.182	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	123646	20.956	ug/l	100
66) Ethyl Benzene	11.786	91	606422	21.261	ug/l	98
67) m/p-Xylenes	11.892	106	466407	42.840	ug/l	99
68) o-Xylene	12.221	106	233036	21.446	ug/l	99
69) Styrene	12.233	104	372495	20.957	ug/l	98
70) Isopropylbenzene	12.521	105	604156	21.720	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.768	83	211772	21.783	ug/l	99
72) 1,2,3-Trichloropropane	12.821	75	170410m	19.999	ug/l	
73) Bromobenzene	12.798	156	124836	18.631	ug/l	83
74) n-propylbenzene	12.863	91	685434	21.234	ug/l	98
75) 2-Chlorotoluene	12.951	91	413943	21.456	ug/l	96
76) 1,3,5-Trimethylbenzene	13.004	105	498093	21.498	ug/l	98
77) t-1,4-Dichloro-2-butene	12.568	75	75934	24.270	ug/l	98
78) 4-Chlorotoluene	13.045	91	397424	21.360	ug/l	96
79) tert-butylbenzene	13.268	119	447274	22.012	ug/l	99
80) 1,2,4-Trimethylbenzene	13.310	105	506875m	21.961	ug/l	
81) sec-Butylbenzene	13.445	105	599982	20.853	ug/l	99
82) p-Isopropyltoluene	13.557	119	488417	20.644	ug/l	99
83) 1,3-Dichlorobenzene	13.557	146	231127	18.784	ug/l	98
84) 1,4-Dichlorobenzene	13.633	146	228052	19.165	ug/l	98
85) n-Butylbenzene	13.886	91	424042	21.590	ug/l	98
86) Hexachloroethane	14.157	117	98594	22.246	ug/l	94
87) 1,2-Dichlorobenzene	13.933	146	242790	19.519	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.545	75	52132	23.734	ug/l	98
89) 1,2,4-Trichlorobenzene	15.198	180	121272	17.574	ug/l	97
90) Hexachlorobutadiene	15.304	225	54325	16.069	ug/l	97
91) Naphthalene	15.439	128	501511	21.304	ug/l	99
92) 1,2,3-Trichlorobenzene	15.633	180	120950	17.297	ug/l	98

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

