

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074367.D
 Acq On : 08 Sep 2022 19:05
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Sep 09 05:39:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 09 05:24:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	53504	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	325322	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	293280	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	175534	31.954	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.500%			
60) 4-Bromofluorobenzene	12.674	95	164004	27.963	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.200%			
63) Toluene-d8	10.380	98	508053	30.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	70321	18.567	ug/l	99
3) Chloromethane	2.269	50	102800	19.695	ug/l	98
4) Vinyl Chloride	2.404	62	122286	21.907	ug/l	98
5) Bromomethane	2.798	94	82401	23.946	ug/l	91
6) Chloroethane	2.963	64	92150	24.351	ug/l	93
7) Trichlorofluoromethane	3.316	101	127612	20.209	ug/l	100
8) Diethyl Ether	3.769	74	51260	19.473	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.140	101	73192	19.811	ug/l	64
10) 1,1-Dichloroethene	4.116	96	72585	20.354	ug/l	94
11) Methyl Iodide	4.351	142	89037	20.334	ug/l	97
12) Methyl Acetate	4.775	43	156218	20.158	ug/l #	84
13) Acrolein	3.981	56	119167m	113.992	ug/l	
14) Acrylonitrile	5.469	53	314471	104.694	ug/l	98
15) Acetone	4.222	58	85024	106.819	ug/l	89
16) Carbon Disulfide	4.457	76	193191	18.904	ug/l	97
17) Allyl chloride	4.757	41	148632	19.300	ug/l	96
18) Methylene Chloride	5.010	84	88618	19.521	ug/l	86
19) trans-1,2-Dichloroethene	5.510	96	77660	19.045	ug/l	93
20) Diisopropyl ether	6.404	45	316555	19.961	ug/l #	92
21) 1,1-Dichloroethane	6.310	63	163404	19.617	ug/l	97
22) cis-1,2-Dichloroethene	7.251	96	94460	19.061	ug/l	94
23) tert-Butyl Alcohol	5.281	59	142582	109.624	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	294995	19.660	ug/l	97
25) Chloroform	7.745	83	164246	19.408	ug/l	97
26) Cyclohexane	8.022	56	149055	19.493	ug/l #	95
29) 1,1-Dichloropropene	8.151	75	117342	18.145	ug/l	97
30) 2-Butanone	7.257	43	476171	103.975	ug/l	93
31) 2,2-Dichloropropane	7.251	77	137614	17.391	ug/l	96
32) 1,1,1-Trichloroethane	7.945	97	150882	18.927	ug/l	96
33) Carbon Tetrachloride	8.133	117	124382	18.031	ug/l	92
34) Benzene	8.392	78	368104	18.514	ug/l #	95
35) Methacrylonitrile	7.569	41	89080	21.169	ug/l	86
36) 1,2-Dichloroethane	8.463	62	139259	19.144	ug/l	99
37) Trichloroethene	9.157	130	84092	18.404	ug/l	96
38) Methylcyclohexane	9.398	83	146594	18.007	ug/l	93
39) 1,2-Dichloropropane	9.427	63	96500	18.847	ug/l	92
40) Dibromomethane	9.516	93	68692	19.283	ug/l	92
41) Bromodichloromethane	9.698	83	129105	18.238	ug/l #	92
42) Vinyl Acetate	6.351	43	1463370	96.813	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.333	43	166153	18.283	ug/l	98
44) Isopropyl Acetate	8.492	43	285155	19.743	ug/l	99
45) 1,4-Dioxane	9.504	88	50563	378.208	ug/l #	85
46) Methyl methacrylate	9.498	41	121605	19.686	ug/l	93
47) n-amyl Acetate	12.333	43	250753	19.102	ug/l	93
48) t-1,3-Dichloropropene	10.663	75	143073	17.303	ug/l	96
49) cis-1,3-Dichloropropene	10.127	75	150050	17.782	ug/l	91
50) 1,1,2-Trichloroethane	10.839	97	95507	18.950	ug/l	89
51) Ethyl methacrylate	10.704	69	164153	18.306	ug/l	96
52) 1,3-Dichloropropane	10.986	76	165398	18.923	ug/l	99
53) Dibromochloromethane	11.180	129	97159	17.928	ug/l	98
54) 1,2-Dibromoethane	11.292	107	96227	18.214	ug/l	96
55) 2-Chloroethyl vinyl ether	9.980	63	422613	98.117	ug/l	98
56) Bromoform	12.404	173	66491	16.106	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	956512	104.925	ug/l	96
59) 2-Hexanone	11.027	43	738484	103.974	ug/l	98
61) Tetrachloroethene	10.916	164	64954	17.851	ug/l #	81
62) Toluene	10.445	91	405335	19.116	ug/l	97
64) Chlorobenzene	11.716	112	229874	18.320	ug/l	89
65) 1,1,1,2-Tetrachloroethane	11.786	131	91914	19.340	ug/l	96
66) Ethyl Benzene	11.786	91	443644	18.917	ug/l	98
67) m/p-Xylenes	11.898	106	328539	36.742	ug/l	95
68) o-Xylene	12.221	106	166936	18.292	ug/l	96
69) Styrene	12.239	104	267117	17.694	ug/l	97
70) Isopropylbenzene	12.521	105	432361	18.242	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.768	83	162088	19.611	ug/l	95
72) 1,2,3-Trichloropropane	12.827	75	131512m	19.374	ug/l	
73) Bromobenzene	12.804	156	91026	17.708	ug/l	80
74) n-propylbenzene	12.863	91	499979	18.150	ug/l	99
75) 2-Chlorotoluene	12.951	91	295631	17.984	ug/l	97
76) 1,3,5-Trimethylbenzene	13.004	105	358420	17.985	ug/l	96
77) t-1,4-Dichloro-2-butene	12.568	75	51300	17.090	ug/l	93
78) 4-Chlorotoluene	13.045	91	292016	18.048	ug/l	94
79) tert-butylbenzene	13.268	119	321970	18.170	ug/l	99
80) 1,2,4-Trimethylbenzene	13.310	105	359643	17.927	ug/l #	82
81) sec-Butylbenzene	13.445	105	437194	17.691	ug/l	99
82) p-Isopropyltoluene	13.557	119	349026	17.086	ug/l	98
83) 1,3-Dichlorobenzene	13.557	146	167908	17.367	ug/l	99
84) 1,4-Dichlorobenzene	13.633	146	167710	17.512	ug/l	99
85) n-Butylbenzene	13.886	91	293401	16.366	ug/l	98
86) Hexachloroethane	14.151	117	71769	17.991	ug/l	95
87) 1,2-Dichlorobenzene	13.933	146	174303	17.437	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.545	75	39161	19.347	ug/l	95
89) 1,2,4-Trichlorobenzene	15.204	180	85904	16.438	ug/l	95
90) Hexachlorobutadiene	15.309	225	39072	17.518	ug/l	97
91) Naphthalene	15.439	128	359041	17.138	ug/l	98
92) 1,2,3-Trichlorobenzene	15.633	180	90113	16.983	ug/l	99

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

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