

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072503.D
 Acq On : 16 May 2022 15:51
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 16 16:08:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 16 14:12:48 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	26556	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	141160	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	131311	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	91052	30.470	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.567%			
60) 4-Bromofluorobenzene	12.727	95	79613	31.051	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.500%			
63) Toluene-d8	10.439	98	223481	31.178	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	42785	19.395	ug/l	99
3) Chloromethane	2.299	50	39404	19.777	ug/l	100
4) Vinyl Chloride	2.440	62	31961	19.003	ug/l	91
5) Bromomethane	2.822	94	27144	19.842	ug/l	98
6) Chloroethane	2.999	64	22441	20.432	ug/l	99
7) Trichlorofluoromethane	3.363	101	78883	19.855	ug/l	100
8) Diethyl Ether	3.822	74	23747	19.869	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.204	101	38684	20.665	ug/l #	66
10) 1,1-Dichloroethene	4.181	96	33052	19.581	ug/l	96
11) Methyl Iodide	4.416	142	45459	17.884	ug/l	99
12) Methyl Acetate	4.851	43	54733	20.044	ug/l	99
13) Acrolein	4.034	56	39958	93.129	ug/l	100
14) Acrylonitrile	5.551	53	116829	101.407	ug/l	76
15) Acetone	4.281	58	30261	100.169	ug/l	87
16) Carbon Disulfide	4.528	76	85685	19.570	ug/l	96
17) Allyl chloride	4.834	41	60195	19.757	ug/l	97
18) Methylene Chloride	5.087	84	41512	20.777	ug/l	97
19) trans-1,2-Dichloroethene	5.593	96	36261	19.559	ug/l	96
20) Diisopropyl ether	6.493	45	127446	20.121	ug/l	96
21) 1,1-Dichloroethane	6.387	63	74925	19.780	ug/l	100
22) cis-1,2-Dichloroethene	7.322	96	42232	19.402	ug/l	93
23) tert-Butyl Alcohol	5.369	59	48561	96.095	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	136439	19.703	ug/l	99
25) Chloroform	7.816	83	81904	20.049	ug/l	98
26) Cyclohexane	8.092	56	60023	19.527	ug/l #	98
29) 1,1-Dichloropropene	8.216	75	56438	20.075	ug/l	95
30) 2-Butanone	7.328	43	164011	100.798	ug/l	97
31) 2,2-Dichloropropane	7.322	77	72288	20.726	ug/l #	77
32) 1,1,1-Trichloroethane	8.010	97	79722	19.881	ug/l	99
33) Carbon Tetrachloride	8.198	117	69741	19.571	ug/l	91
34) Benzene	8.457	78	160724	20.120	ug/l	99
35) Methacrylonitrile	7.634	41	29236	16.994	ug/l	97
36) 1,2-Dichloroethane	8.522	62	73401	19.731	ug/l #	87
37) Trichloroethene	9.216	130	42754	19.728	ug/l	97
38) Methylcyclohexane	9.457	83	65728	20.222	ug/l	93
39) 1,2-Dichloropropane	9.486	63	39706	19.732	ug/l	95
40) Dibromomethane	9.575	93	31330	20.170	ug/l	89
41) Bromodichloromethane	9.757	83	64171	19.500	ug/l #	98
42) Vinyl Acetate	6.428	43	516937	94.391	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	65390	20.579	ug/l	97
44) Isopropyl Acetate	8.557	43	101548	19.964	ug/l	99
45) 1,4-Dioxane	9.569	88	19805	408.801	ug/l	92
46) Methyl methacrylate	9.557	41	46666	19.389	ug/l	89
47) n-amyl Acetate	12.386	43	64149	18.840	ug/l	94
48) t-1,3-Dichloropropene	10.716	75	67308	19.374	ug/l	98
49) cis-1,3-Dichloropropene	10.186	75	70012	19.994	ug/l	94
50) 1,1,2-Trichloroethane	10.892	97	44295	20.674	ug/l	98
51) Ethyl methacrylate	10.757	69	64221	19.222	ug/l	90
52) 1,3-Dichloropropane	11.045	76	72223	19.510	ug/l	99
53) Dibromochloromethane	11.233	129	49729	19.223	ug/l	100
54) 1,2-Dibromoethane	11.339	107	45308	19.880	ug/l	99
55) 2-Chloroethyl vinyl ether	10.039	63	82714	97.575	ug/l	99
56) Bromoform	12.457	173	36829	18.877	ug/l #	100
58) 4-Methyl-2-Pentanone	10.328	43	322568	104.251	ug/l	98
59) 2-Hexanone	11.081	43	235774	103.726	ug/l	98
61) Tetrachloroethene	10.975	164	40564	20.628	ug/l	91
62) Toluene	10.498	91	180910	20.393	ug/l	97
64) Chlorobenzene	11.769	112	113213	20.459	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	46696	20.409	ug/l	98
66) Ethyl Benzene	11.839	91	201932	20.238	ug/l	99
67) m/p-Xylenes	11.951	106	155876	41.204	ug/l	95
68) o-Xylene	12.275	106	77639	20.762	ug/l	96
69) Styrene	12.292	104	119465	20.059	ug/l	95
70) Isopropylbenzene	12.575	105	205322	20.692	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.822	83	62818	20.731	ug/l	97
72) 1,2,3-Trichloropropane	12.874	75	60555m	21.307	ug/l	
73) Bromobenzene	12.857	156	48417	20.274	ug/l	98
74) n-propylbenzene	12.916	91	222041	20.441	ug/l	99
75) 2-Chlorotoluene	13.004	91	142814	20.349	ug/l	95
76) 1,3,5-Trimethylbenzene	13.057	105	172300	20.302	ug/l	100
77) t-1,4-Dichloro-2-butene	12.622	75	17620	18.764	ug/l	81
78) 4-Chlorotoluene	13.104	91	130419	19.826	ug/l	95
79) tert-butylbenzene	13.322	119	149819	20.092	ug/l	99
80) 1,2,4-Trimethylbenzene	13.363	105	169222m	19.977	ug/l	
81) sec-Butylbenzene	13.498	105	198163	20.044	ug/l	99
82) p-Isopropyltoluene	13.610	119	160878	19.662	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	81120	19.898	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	79403	20.016	ug/l	96
85) n-Butylbenzene	13.939	91	112288	18.519	ug/l	99
86) Hexachloroethane	14.204	117	28613	18.992	ug/l	85
87) 1,2-Dichlorobenzene	13.986	146	80336	20.157	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	13888	19.470	ug/l	95
89) 1,2,4-Trichlorobenzene	15.257	180	35555	19.708	ug/l	92
90) Hexachlorobutadiene	15.368	225	22608	20.276	ug/l	95
91) Naphthalene	15.504	128	98780	20.634	ug/l	98
92) 1,2,3-Trichlorobenzene	15.692	180	35697	19.438	ug/l	98

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

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