

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072498.D
 Acq On : 16 May 2022 13:28
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: May 16 13:44:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 16 13:19:02 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	26915	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	147653	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	139980	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	90151	36.900	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 123.000%#			
60) 4-Bromofluorobenzene	12.727	95	86346	37.321	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 124.400%#			
63) Toluene-d8	10.439	98	230205	33.496	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 111.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	212800	129.275	ug/l	97
3) Chloromethane	2.299	50	190198	106.969	ug/l	98
4) Vinyl Chloride	2.440	62	160162	86.071	ug/l	99
5) Bromomethane	2.816	94	143857	129.812	ug/l	99
6) Chloroethane	2.981	64	102403	86.599	ug/l	98
7) Trichlorofluoromethane	3.357	101	378619	135.077	ug/l	95
8) Diethyl Ether	3.822	74	114138	111.666	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.204	101	181712	119.724	ug/l #	68
10) 1,1-Dichloroethene	4.175	96	167652	116.852	ug/l	93
11) Methyl Iodide	4.416	142	262204	124.472	ug/l	94
12) Methyl Acetate	4.851	43	260782	120.185	ug/l	96
13) Acrolein	4.034	56	211122	787.278	ug/l	97
14) Acrylonitrile	5.546	53	561636	600.440	ug/l	100
15) Acetone	4.287	58	147076	566.258	ug/l	81
16) Carbon Disulfide	4.528	76	435809	115.753	ug/l	98
17) Allyl chloride	4.840	41	304787	126.035	ug/l	92
18) Methylene Chloride	5.093	84	194333	111.968	ug/l	95
19) trans-1,2-Dichloroethene	5.593	96	179886	115.482	ug/l	91
20) Diisopropyl ether	6.493	45	621799	123.242	ug/l	97
21) 1,1-Dichloroethane	6.387	63	366088	119.812	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	216249	116.037	ug/l	95
23) tert-Butyl Alcohol	5.375	59	247065	682.923	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	703918	129.286	ug/l	98
25) Chloroform	7.810	83	398463	126.238	ug/l	98
26) Cyclohexane	8.092	56	314452	122.222	ug/l #	98
29) 1,1-Dichloropropene	8.216	75	285367	126.452	ug/l	96
30) 2-Butanone	7.328	43	799375	619.906	ug/l	97
31) 2,2-Dichloropropane	7.322	77	354400	134.227	ug/l	94
32) 1,1,1-Trichloroethane	8.010	97	395019	138.548	ug/l	100
33) Carbon Tetrachloride	8.204	117	356276	142.409	ug/l	99
34) Benzene	8.457	78	784609	114.271	ug/l	98
35) Methacrylonitrile	7.634	41	175174	139.277	ug/l	92
36) 1,2-Dichloroethane	8.522	62	358568	133.131	ug/l	98
37) Trichloroethene	9.210	130	211133	116.895	ug/l	93
38) Methylcyclohexane	9.457	83	338522	122.429	ug/l	94
39) 1,2-Dichloropropane	9.486	63	197074	113.684	ug/l	97
40) Dibromomethane	9.575	93	153317	124.943	ug/l	91
41) Bromodichloromethane	9.757	83	332793	134.042	ug/l	91
42) Vinyl Acetate	6.428	43	2829203	643.459	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	318935	129.733	ug/l	96
44) Isopropyl Acetate	8.557	43	508598	125.838	ug/l	99
45) 1,4-Dioxane	9.563	88	97905	2467.101	ug/l	94
46) Methyl methacrylate	9.557	41	241106	136.184	ug/l	88
47) n-amyl Acetate	12.386	43	374314	142.169	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	359632	135.370	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	353874	124.633	ug/l	98
50) 1,1,2-Trichloroethane	10.892	97	210125	119.313	ug/l	98
51) Ethyl methacrylate	10.757	69	348798	127.847	ug/l	91
52) 1,3-Dichloropropane	11.039	76	365787	120.751	ug/l	99
53) Dibromochloromethane	11.233	129	259866	133.037	ug/l	99
54) 1,2-Dibromoethane	11.339	107	227451	124.566	ug/l	95
55) 2-Chloroethyl vinyl ether	10.039	63	460856	667.975	ug/l	99
56) Bromoform	12.457	173	199818	136.776	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	1604715	632.501	ug/l	98
59) 2-Hexanone	11.080	43	1198273	644.703	ug/l	99
61) Tetrachloroethene	10.975	164	197312	120.818	ug/l	93
62) Toluene	10.504	91	912415	117.352	ug/l	97
64) Chlorobenzene	11.769	112	575974	119.939	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	235938	126.517	ug/l	98
66) Ethyl Benzene	11.839	91	1066631	124.513	ug/l	100
67) m/p-Xylenes	11.951	106	808210	245.621	ug/l	94
68) o-Xylene	12.274	106	402142	122.580	ug/l	95
69) Styrene	12.292	104	658398	127.495	ug/l	96
70) Isopropylbenzene	12.574	105	1086515	130.225	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.822	83	317120	118.612	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	265313m	111.966	ug/l	
73) Bromobenzene	12.857	156	255341	125.687	ug/l	99
74) n-propylbenzene	12.916	91	1224099	135.500	ug/l	100
75) 2-Chlorotoluene	13.004	91	752122	129.527	ug/l	97
76) 1,3,5-Trimethylbenzene	13.057	105	934237	136.958	ug/l	100
77) t-1,4-Dichloro-2-butene	12.622	75	107242	135.743	ug/l	97
78) 4-Chlorotoluene	13.104	91	729635	135.806	ug/l	95
79) tert-butylbenzene	13.321	119	817656	134.093	ug/l	100
80) 1,2,4-Trimethylbenzene	13.363	105	910521m	137.175	ug/l	
81) sec-Butylbenzene	13.498	105	1106717	136.206	ug/l	99
82) p-Isopropyltoluene	13.610	119	939666	141.309	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	449218	134.258	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	441680	137.414	ug/l	98
85) n-Butylbenzene	13.939	91	720986	148.701	ug/l	96
86) Hexachloroethane	14.204	117	166473	136.810	ug/l	86
87) 1,2-Dichlorobenzene	13.986	146	431280	132.712	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.598	75	78456	149.794	ug/l	98
89) 1,2,4-Trichlorobenzene	15.257	180	220396	151.720	ug/l	97
90) Hexachlorobutadiene	15.363	225	113973	126.096	ug/l	98
91) Naphthalene	15.504	128	712667	174.511	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	222211	152.972	ug/l	99

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

