

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051722\
 Data File : VN072533.D
 Acq On : 17 May 2022 17:05
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/18/2022
 Supervised By : Mahesh Dadoda 05/18/2022

Quant Time: May 18 07:27:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	27399	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	143797	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	119107	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.428	65	86355	28.009	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.367%	
60) 4-Bromofluorobenzene	12.727	95	73566	31.633	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	105.433%	
63) Toluene-d8	10.433	98	223354	34.353	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	114.500%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	41614	18.284	ug/l	98
3) Chloromethane	2.299	50	38928	18.937	ug/l	97
4) Vinyl Chloride	2.440	62	30461	17.554	ug/l	95
5) Bromomethane	2.816	94	25211	17.862	ug/l	96
6) Chloroethane	2.987	64	20698	18.265	ug/l	94
7) Trichlorofluoromethane	3.357	101	72047	17.576	ug/l	97
8) Diethyl Ether	3.822	74	24236	19.655	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.198	101	35429	18.344	ug/l #	66
10) 1,1-Dichloroethene	4.181	96	32443	18.629	ug/l	98
11) Methyl Iodide	4.422	142	48967	18.671	ug/l	96
12) Methyl Acetate	4.857	43	49107	17.430	ug/l	98
13) Acrolein	4.034	56	47411	107.099	ug/l	99
14) Acrylonitrile	5.551	53	102894	86.564	ug/l	90
15) Acetone	4.293	58	25961m	83.291	ug/l	
16) Carbon Disulfide	4.528	76	81521	18.046	ug/l	97
17) Allyl chloride	4.828	41	55327	17.600	ug/l	85
18) Methylene Chloride	5.093	84	41431	20.099	ug/l	96
19) trans-1,2-Dichloroethene	5.593	96	36245	18.949	ug/l	91
20) Diisopropyl ether	6.487	45	127372	19.490	ug/l	96
21) 1,1-Dichloroethane	6.387	63	72057	18.438	ug/l	95
22) cis-1,2-Dichloroethene	7.316	96	43034	19.162	ug/l	94
23) tert-Butyl Alcohol	5.375	59	28020m	53.742	ug/l	
24) Methyl tert-Butyl Ether	5.616	73	134181	18.781	ug/l	96
25) Chloroform	7.810	83	78594	18.647	ug/l	94
26) Cyclohexane	8.092	56	59187	18.662	ug/l #	96
29) 1,1-Dichloropropene	8.216	75	52934	18.484	ug/l	96
30) 2-Butanone	7.328	43	136861	82.570	ug/l	97
31) 2,2-Dichloropropane	7.316	77	64922	18.273	ug/l	95
32) 1,1,1-Trichloroethane	8.004	97	74736	18.296	ug/l	99
33) Carbon Tetrachloride	8.204	117	65081	17.928	ug/l	99
34) Benzene	8.451	78	159061	19.547	ug/l	99
35) Methacrylonitrile	7.628	41	32744	18.684	ug/l	96
36) 1,2-Dichloroethane	8.522	62	70091	18.495	ug/l #	93
37) Trichloroethene	9.210	130	42310	19.165	ug/l	94
38) Methylcyclohexane	9.457	83	63147	19.072	ug/l	96
39) 1,2-Dichloropropane	9.486	63	40934	19.970	ug/l	95
40) Dibromomethane	9.575	93	30234	19.107	ug/l	89
41) Bromodichloromethane	9.757	83	62544	18.657	ug/l	97
42) Vinyl Acetate	6.428	43	541122	96.995	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	58519	18.079	ug/l	98
44) Isopropyl Acetate	8.557	43	95165	18.366	ug/l	99
45) 1,4-Dioxane	9.575	88	8143	165.000	ug/l #	87
46) Methyl methacrylate	9.551	41	45661	18.623	ug/l	90
47) n-amyl Acetate	12.386	43	55756	16.074	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	57176	16.156	ug/l	97
49) cis-1,3-Dichloropropene	10.186	75	68132	19.101	ug/l	98
50) 1,1,2-Trichloroethane	10.892	97	37559	17.209	ug/l	93
51) Ethyl methacrylate	10.757	69	55630	16.345	ug/l	91
52) 1,3-Dichloropropane	11.039	76	63838	16.929	ug/l	98
53) Dibromochloromethane	11.233	129	43391	16.465	ug/l	98
54) 1,2-Dibromoethane	11.345	107	40084	17.265	ug/l	99
55) 2-Chloroethyl vinyl ether	10.039	63	95073	110.098	ug/l	99
56) Bromoform	12.451	173	31326	15.762	ug/l #	93
58) 4-Methyl-2-Pentanone	10.327	43	287763	102.532	ug/l	97
59) 2-Hexanone	11.080	43	175672	85.203	ug/l	99
61) Tetrachloroethene	10.975	164	35552	19.931	ug/l	91
62) Toluene	10.504	91	179317	22.285	ug/l	100
64) Chlorobenzene	11.769	112	95722	19.071	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	39995	19.271	ug/l	97
66) Ethyl Benzene	11.839	91	170542	18.843	ug/l	96
67) m/p-Xylenes	11.951	106	135097	39.371	ug/l	96
68) o-Xylene	12.274	106	64905	19.135	ug/l	93
69) Styrene	12.286	104	104000	19.251	ug/l	94
70) Isopropylbenzene	12.574	105	188642	20.959	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	58991	21.462	ug/l	95
72) 1,2,3-Trichloropropane	12.874	75	45627m	17.700	ug/l	
73) Bromobenzene	12.857	156	44600	20.590	ug/l	96
74) n-propylbenzene	12.916	91	204931	20.799	ug/l	100
75) 2-Chlorotoluene	13.004	91	132816	20.863	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	162903	21.161	ug/l	100
77) t-1,4-Dichloro-2-butene	12.621	75	16562	19.444	ug/l	99
78) 4-Chlorotoluene	13.104	91	130111	21.806	ug/l	94
79) tert-butylbenzene	13.321	119	143842	21.267	ug/l	99
80) 1,2,4-Trimethylbenzene	13.363	105	164450m	22.168	ug/l	
81) sec-Butylbenzene	13.498	105	195692	21.823	ug/l	97
82) p-Isopropyltoluene	13.610	119	163591	22.043	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	84010	22.719	ug/l	99
84) 1,4-Dichlorobenzene	13.686	146	79581	22.116	ug/l	99
85) n-Butylbenzene	13.939	91	117994	21.454	ug/l	99
86) Hexachloroethane	14.204	117	28630	20.950	ug/l	91
87) 1,2-Dichlorobenzene	13.986	146	81418	22.521	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	11819	18.267	ug/l	99
89) 1,2,4-Trichlorobenzene	15.257	180	34774	21.250	ug/l	95
90) Hexachlorobutadiene	15.368	225	22067	21.819	ug/l	97
91) Naphthalene	15.504	128	90457	20.757	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	35327	21.207	ug/l	96

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

