

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080822\
 Data File : VN073776.D
 Acq On : 08 Aug 2022 17:40
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/09/2022
 Supervised By : Mahesh Dadoda 08/09/2022

Quant Time: Aug 09 00:29:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.592	128	54046	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	277808	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	260967	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.375	65	139486	29.850	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.500%	
60) 4-Bromofluorobenzene	12.674	95	135172	29.253	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.500%	
63) Toluene-d8	10.380	98	444634	30.258	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.867%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	68309	18.595	ug/l	96
3) Chloromethane	2.263	50	86514	17.812	ug/l	100
4) Vinyl Chloride	2.405	62	109313	18.337	ug/l	99
5) Bromomethane	2.804	94	36344	12.001	ug/l	89
6) Chloroethane	2.963	64	72862	18.041	ug/l	96
7) Trichlorofluoromethane	3.316	101	148319	25.295	ug/l	95
8) Diethyl Ether	3.763	74	44323	18.786	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.134	101	66643	18.853	ug/l #	66
10) 1,1-Dichloroethene	4.110	96	64941	19.193	ug/l	92
11) Methyl Iodide	4.346	142	24908	6.382	ug/l	86
12) Methyl Acetate	4.781	43	116016	20.175	ug/l	99
13) Acrolein	3.981	56	117360	116.094	ug/l	97
14) Acrylonitrile	5.481	53	266419	100.383	ug/l	97
15) Acetone	4.222	58	75872	102.832	ug/l	84
16) Carbon Disulfide	4.457	76	165699	17.920	ug/l	100
17) Allyl chloride	4.763	41	103755	18.384	ug/l	85
18) Methylene Chloride	5.016	84	84075	19.610	ug/l	95
19) trans-1,2-Dichloroethene	5.510	96	69107	18.421	ug/l	99
20) Diisopropyl ether	6.416	45	230537	18.777	ug/l #	92
21) 1,1-Dichloroethane	6.304	63	136246	18.806	ug/l	96
22) cis-1,2-Dichloroethene	7.245	96	88025	19.505	ug/l	92
23) tert-Butyl Alcohol	5.293	59	94483	100.735	ug/l #	100
24) Methyl tert-Butyl Ether	5.540	73	230235	19.308	ug/l #	73
25) Chloroform	7.751	83	145942	19.516	ug/l	99
26) Cyclohexane	8.022	56	109370	17.501	ug/l #	97
29) 1,1-Dichloropropene	8.151	75	97067	18.700	ug/l	99
30) 2-Butanone	7.263	43	366915	102.252	ug/l	99
31) 2,2-Dichloropropane	7.245	77	102199	18.868	ug/l	99
32) 1,1,1-Trichloroethane	7.945	97	121322	20.193	ug/l	97
33) Carbon Tetrachloride	8.134	117	100742	19.554	ug/l	99
34) Benzene	8.392	78	325356	19.370	ug/l	97
35) Methacrylonitrile	7.569	41	67603	23.209	ug/l	94
36) 1,2-Dichloroethane	8.469	62	108933	19.667	ug/l #	94
37) Trichloroethene	9.151	130	79437	19.223	ug/l	95
38) Methylcyclohexane	9.392	83	113093	17.551	ug/l	97
39) 1,2-Dichloropropane	9.428	63	85165	20.097	ug/l	99
40) Dibromomethane	9.516	93	57058	19.843	ug/l	90
41) Bromodichloromethane	9.704	83	111714	19.847	ug/l	91
42) Vinyl Acetate	6.351	43	982513	95.021	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.339	43	129228	18.970	ug/l	100
44) Isopropyl Acetate	8.498	43	185374	19.568	ug/l	94
45) 1,4-Dioxane	9.510	88	50007	442.714	ug/l	96
46) Methyl methacrylate	9.498	41	79077	18.666	ug/l	84
47) n-amyl Acetate	12.333	43	137292m	18.179	ug/l	
48) t-1,3-Dichloropropene	10.663	75	103856	17.922	ug/l	97
49) cis-1,3-Dichloropropene	10.133	75	119953	18.643	ug/l #	87
50) 1,1,2-Trichloroethane	10.839	97	87082	20.186	ug/l	95
51) Ethyl methacrylate	10.704	69	120895	18.640	ug/l	87
52) 1,3-Dichloropropane	10.986	76	144105	19.818	ug/l	99
53) Dibromochloromethane	11.180	129	86506	19.787	ug/l	98
54) 1,2-Dibromoethane	11.292	107	87103	19.813	ug/l	98
55) 2-Chloroethyl vinyl ether	9.980	63	246900	84.877	ug/l	99
56) Bromoform	12.398	173	66930	19.481	ug/l #	99
58) 4-Methyl-2-Pentanone	10.275	43	690401	102.314	ug/l	95
59) 2-Hexanone	11.027	43	530282	102.027	ug/l	94
61) Tetrachloroethene	10.916	164	77377	19.357	ug/l	93
62) Toluene	10.445	91	355515	19.590	ug/l	99
64) Chlorobenzene	11.710	112	210984	19.458	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.780	131	81195	20.173	ug/l	99
66) Ethyl Benzene	11.786	91	362064	18.662	ug/l	95
67) m/p-Xylenes	11.892	106	286797	38.675	ug/l	96
68) o-Xylene	12.222	106	141001	19.144	ug/l	96
69) Styrene	12.239	104	232748	19.172	ug/l	96
70) Isopropylbenzene	12.522	105	361601	19.202	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	137101	20.706	ug/l	99
72) 1,2,3-Trichloropropane	12.821	75	121945m	22.052	ug/l	
73) Bromobenzene	12.804	156	92799	19.839	ug/l	95
74) n-propylbenzene	12.863	91	407982	18.617	ug/l	99
75) 2-Chlorotoluene	12.951	91	250631	19.079	ug/l	99
76) 1,3,5-Trimethylbenzene	13.004	105	303658	19.252	ug/l	96
77) t-1,4-Dichloro-2-butene	12.569	75	35019	17.377	ug/l	96
78) 4-Chlorotoluene	13.045	91	237006	18.781	ug/l	99
79) tert-butylbenzene	13.263	119	267317	19.603	ug/l	95
80) 1,2,4-Trimethylbenzene	13.310	105	303322m	19.415	ug/l	
81) sec-Butylbenzene	13.445	105	373685	19.085	ug/l	98
82) p-Isopropyltoluene	13.557	119	296818	18.465	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	161866	18.904	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	152435	18.456	ug/l	96
85) n-Butylbenzene	13.886	91	218154	16.742	ug/l	98
86) Hexachloroethane	14.151	117	55860	18.948	ug/l	82
87) 1,2-Dichlorobenzene	13.927	146	173165	20.003	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.539	75	29329	20.280	ug/l #	81
89) 1,2,4-Trichlorobenzene	15.198	180	82177	17.248	ug/l	97
90) Hexachlorobutadiene	15.304	225	46468	19.256	ug/l	98
91) Naphthalene	15.439	128	290989	18.600	ug/l	98
92) 1,2,3-Trichlorobenzene	15.627	180	89478	18.281	ug/l	96

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

