

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080823\
 Data File : VN078810.D
 Acq On : 08 Aug 2023 20:16
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080823

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/09/2023
 Supervised By : Semsettin Yesilyurt 08/09/2023

Quant Time: Aug 09 05:08:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	31128	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	167652	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	150983	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	75607	30.170	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.567%	
60) 4-Bromofluorobenzene	12.853	95	61845	29.182	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.267%	
63) Toluene-d8	10.571	98	220191	29.761	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	36459	16.992	ug/l	98
3) Chloromethane	2.371	50	50611	19.808	ug/l	96
4) Vinyl Chloride	2.524	62	48195	19.823	ug/l	96
5) Bromomethane	2.965	94	33171	18.755	ug/l	95
6) Chloroethane	3.130	64	32414	18.768	ug/l	97
7) Trichlorofluoromethane	3.506	101	61213	18.344	ug/l	100
8) Diethyl Ether	3.971	74	22764	19.184	ug/l	68
9) 1,1,2-Trichlorotrifluo...	4.383	101	31214	17.437	ug/l	84
10) 1,1-Dichloroethene	4.347	96	32503m	18.749	ug/l	
11) Methyl Iodide	4.606	142	42939	18.568	ug/l	97
12) Methyl Acetate	5.042	43	71664	19.019	ug/l	91
13) Acrolein	4.200	56	40236m	100.821	ug/l	
14) Acrylonitrile	5.730	53	98866	99.581	ug/l #	87
15) Acetone	4.442	58	24733	96.685	ug/l	93
16) Carbon Disulfide	4.718	76	90332	18.001	ug/l	96
17) Allyl chloride	5.042	41	55208	18.219	ug/l	89
18) Methylene Chloride	5.294	84	40173	18.570	ug/l	91
19) trans-1,2-Dichloroethene	5.794	96	38685	19.435	ug/l #	94
20) Diisopropyl ether	6.689	45	137547	20.214	ug/l	96
21) 1,1-Dichloroethane	6.577	63	74489	19.200	ug/l	94
22) cis-1,2-Dichloroethene	7.494	96	42898	19.444	ug/l	95
23) tert-Butyl Alcohol	5.542	59	34565	93.691	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	117732	20.291	ug/l #	74
25) Chloroform	7.971	83	74550m	19.356	ug/l	
26) Cyclohexane	8.259	56	53764	17.595	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	51015	18.730	ug/l	96
30) 2-Butanone	7.500	43	136216	102.034	ug/l #	91
31) 2,2-Dichloropropane	7.506	77	49050	17.464	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	61935	19.309	ug/l	97
33) Carbon Tetrachloride	8.371	117	52580	18.993	ug/l	89
34) Benzene	8.612	78	160086	19.316	ug/l	100
35) Methacrylonitrile	7.794	41	29529	18.837	ug/l	74
36) 1,2-Dichloroethane	8.682	62	59727	20.616	ug/l	100
37) Trichloroethene	9.359	130	39847	19.981	ug/l	98
38) Methylcyclohexane	9.612	83	46740	18.125	ug/l	92
39) 1,2-Dichloropropane	9.630	63	43750	19.953	ug/l	99
40) Dibromomethane	9.718	93	28205	19.317	ug/l	96
41) Bromodichloromethane	9.894	83	57361	19.497	ug/l	95
42) Vinyl Acetate	6.618	43	436616	103.931	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	57476	20.739	ug/l #	86
44) Isopropyl Acetate	8.694	43	98346	19.762	ug/l	91
45) 1,4-Dioxane	9.700	88	13390	401.053	ug/l	91
46) Methyl methacrylate	9.688	41	43551	20.667	ug/l	83
47) n-amyl Acetate	12.500	43	66373	19.078	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	58341	19.638	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	64059	19.390	ug/l #	89
50) 1,1,2-Trichloroethane	11.024	97	41141	20.736	ug/l	95
51) Ethyl methacrylate	10.882	69	54038	19.432	ug/l	75
52) 1,3-Dichloropropane	11.171	76	67982	19.956	ug/l	99
53) Dibromochloromethane	11.365	129	40774	19.691	ug/l	96
54) 1,2-Dibromoethane	11.476	107	38457	19.840	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	104776	102.163	ug/l	95
56) Bromoform	12.582	173	26814	20.686	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	289730	99.836	ug/l #	92
59) 2-Hexanone	11.200	43	199668	99.009	ug/l	91
61) Tetrachloroethene	11.112	164	28903	16.733	ug/l	96
62) Toluene	10.635	91	170158	19.143	ug/l	99
64) Chlorobenzene	11.900	112	98640	18.955	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.971	131	37668	18.788	ug/l	97
66) Ethyl Benzene	11.971	91	161202	17.462	ug/l	99
67) m/p-Xylenes	12.076	106	123381	36.449	ug/l	100
68) o-Xylene	12.406	106	62462	18.539	ug/l	99
69) Styrene	12.418	104	95852	18.618	ug/l	98
70) Isopropylbenzene	12.700	105	148657	17.863	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	53846	19.094	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	50462m	20.499	ug/l	
73) Bromobenzene	12.982	156	35766	17.981	ug/l	95
74) n-propylbenzene	13.041	91	164611	17.874	ug/l	99
75) 2-Chlorotoluene	13.129	91	104108	18.147	ug/l	99
76) 1,3,5-Trimethylbenzene	13.182	105	120845	18.282	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	15659	20.266	ug/l	90
78) 4-Chlorotoluene	13.229	91	95143	17.877	ug/l	98
79) tert-butylbenzene	13.441	119	100755	18.578	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	116495	18.677	ug/l	98
81) sec-Butylbenzene	13.623	105	132954	18.312	ug/l	98
82) p-Isopropyltoluene	13.735	119	103034	18.117	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	56575	18.405	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	52122	17.755	ug/l	99
85) n-Butylbenzene	14.065	91	70032	16.734	ug/l	99
86) Hexachloroethane	14.341	117	22235	18.561	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	54161	17.909	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	8547	21.337	ug/l #	85
89) 1,2,4-Trichlorobenzene	15.400	180	11973	14.304	ug/l	96
90) Hexachlorobutadiene	15.506	225	10009	16.241	ug/l	98
91) Naphthalene	15.653	128	38339	14.647	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	15209	15.492	ug/l	94

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

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