

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077665.D
 Acq On : 12 May 2023 11:01
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/15/2023
 Supervised By : Mahesh Dadoda 05/15/2023

Quant Time: May 15 01:36:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	106139	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	627207	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	563561	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	218423	28.616	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.400%		
60) 4-Bromofluorobenzene	12.853	95	256997	28.679	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.600%		
63) Toluene-d8	10.571	98	756208	29.052	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	126164	18.105	ug/l	98
3) Chloromethane	2.359	50	100108	18.903	ug/l	99
4) Vinyl Chloride	2.512	62	132599	16.272	ug/l	96
5) Bromomethane	2.959	94	101539	18.693	ug/l	99
6) Chloroethane	3.124	64	79333	14.901	ug/l	97
7) Trichlorofluoromethane	3.512	101	205999	18.587	ug/l	95
8) Diethyl Ether	3.959	74	70380	20.149	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	116951	19.550	ug/l	79
10) 1,1-Dichloroethene	4.347	96	110515	19.543	ug/l	88
11) Methyl Iodide	4.595	142	162632	18.490	ug/l	87
12) Methyl Acetate	5.024	43	156268	22.860	ug/l #	87
13) Acrolein	4.177	56	92212	110.124	ug/l	95
14) Acrylonitrile	5.718	53	232318	111.723	ug/l	99
15) Acetone	4.430	58	72969	115.621	ug/l	80
16) Carbon Disulfide	4.724	76	245398	18.065	ug/l	97
17) Allyl chloride	5.030	41	117304	19.983	ug/l	95
18) Methylene Chloride	5.277	84	127063	18.488	ug/l	88
19) trans-1,2-Dichloroethene	5.794	96	123588	19.426	ug/l	97
20) Diisopropyl ether	6.671	45	282586	19.793	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	199655	19.065	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	145252	18.948	ug/l	93
23) tert-Butyl Alcohol	5.500	59	85941	105.501	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	360053	18.810	ug/l	98
25) Chloroform	7.971	83	234909	18.819	ug/l	98
26) Cyclohexane	8.259	56	155484	18.086	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	164250	18.191	ug/l	95
30) 2-Butanone	7.483	43	292596	121.574	ug/l	96
31) 2,2-Dichloropropane	7.488	77	175876	16.719	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	208746	17.863	ug/l	97
33) Carbon Tetrachloride	8.365	117	184526	18.672	ug/l	92
34) Benzene	8.606	78	516418	18.942	ug/l	98
35) Methacrylonitrile	7.783	41	58544	21.431	ug/l	92
36) 1,2-Dichloroethane	8.671	62	168749	18.565	ug/l	95
37) Trichloroethene	9.353	130	140949	19.999	ug/l	91
38) Methylcyclohexane	9.606	83	202055	17.380	ug/l	96
39) 1,2-Dichloropropane	9.624	63	115739	18.336	ug/l	93
40) Dibromomethane	9.712	93	92471	18.582	ug/l	86
41) Bromodichloromethane	9.894	83	178318	17.795	ug/l	99
42) Vinyl Acetate	6.606	43	769284	86.169	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	112061	21.665	ug/l	#	89
44) Isopropyl Acetate	8.694	43	187475	19.796	ug/l		92
45) 1,4-Dioxane	9.700	88	45277	384.608	ug/l	#	96
46) Methyl methacrylate	9.682	41	91928	21.614	ug/l		91
47) n-amyl Acetate	12.500	43	148290	18.181	ug/l		94
48) t-1,3-Dichloropropene	10.841	75	168197	16.649	ug/l		95
49) cis-1,3-Dichloropropene	10.318	75	191037	17.253	ug/l		98
50) 1,1,2-Trichloroethane	11.024	97	137177	19.141	ug/l		90
51) Ethyl methacrylate	10.876	69	177111	19.145	ug/l		94
52) 1,3-Dichloropropane	11.165	76	214149	18.481	ug/l		99
53) Dibromochloromethane	11.365	129	141773	19.014	ug/l		100
54) 1,2-Dibromoethane	11.476	107	139534	19.601	ug/l		96
55) 2-Chloroethyl vinyl ether	10.165	63	402227	96.147	ug/l		97
56) Bromoform	12.582	173	97069	22.125	ug/l	#	97
58) 4-Methyl-2-Pentanone	10.447	43	587515	113.206	ug/l		97
59) 2-Hexanone	11.200	43	427949	114.232	ug/l		96
61) Tetrachloroethene	11.106	164	119799	21.977	ug/l		95
62) Toluene	10.635	91	582544	18.671	ug/l		100
64) Chlorobenzene	11.894	112	371329	19.352	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.965	131	139185	20.107	ug/l		97
66) Ethyl Benzene	11.971	91	636330	18.406	ug/l		98
67) m/p-Xylenes	12.076	106	514767	37.845	ug/l		93
68) o-Xylene	12.400	106	252416	18.831	ug/l		92
69) Styrene	12.418	104	397339	18.538	ug/l		96
70) Isopropylbenzene	12.700	105	645290	18.534	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.941	83	180632	19.346	ug/l		99
72) 1,2,3-Trichloropropane	13.000	75	148314m	19.091	ug/l		
73) Bromobenzene	12.988	156	157020	21.568	ug/l		78
74) n-propylbenzene	13.041	91	712753	18.309	ug/l		97
75) 2-Chlorotoluene	13.129	91	431306	18.319	ug/l		95
76) 1,3,5-Trimethylbenzene	13.176	105	477203	17.343	ug/l		95
77) t-1,4-Dichloro-2-butene	12.741	75	42765	15.801	ug/l		96
78) 4-Chlorotoluene	13.229	91	416082	18.099	ug/l		95
79) tert-butylbenzene	13.447	119	474623	19.260	ug/l		91
80) 1,2,4-Trimethylbenzene	13.488	105	425846	15.947	ug/l		94
81) sec-Butylbenzene	13.623	105	650260	18.799	ug/l		96
82) p-Isopropyltoluene	13.735	119	492375	17.891	ug/l		96
83) 1,3-Dichlorobenzene	13.741	146	273655	20.242	ug/l		97
84) 1,4-Dichlorobenzene	13.817	146	261177	19.735	ug/l		97
85) n-Butylbenzene	14.065	91	346050	15.284	ug/l		97
86) Hexachloroethane	14.341	117	90426	17.630	ug/l		69
87) 1,2-Dichlorobenzene	14.112	146	267891	20.414	ug/l		95
88) 1,2-Dibromo-3-Chloropr...	14.729	75	29195	17.207	ug/l	#	73
89) 1,2,4-Trichlorobenzene	15.400	180	58377	12.912	ug/l		97
90) Hexachlorobutadiene	15.511	225	67336	26.412	ug/l		95
91) Naphthalene	15.647	128	162867	10.545	ug/l		98
92) 1,2,3-Trichlorobenzene	15.847	180	50823	12.206	ug/l		95

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

