

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076883.D
 Acq On : 08 Mar 2023 17:59
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Mar 09 03:47:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	48943	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	327368	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	359503	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	128620	28.506	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.033%		
60) 4-Bromofluorobenzene	12.854	95	197519	30.771	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.567%		
63) Toluene-d8	10.571	98	380621	30.214	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.700%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	31035	5.703	ug/l	98
3) Chloromethane	2.378	50	31604	5.046	ug/l	93
4) Vinyl Chloride	2.531	62	27676	4.252	ug/l #	85
5) Bromomethane	2.972	94	20414	4.521	ug/l	99
6) Chloroethane	3.137	64	17446	4.184	ug/l #	85
7) Trichlorofluoromethane	3.513	101	53673	6.109	ug/l	95
8) Diethyl Ether	3.972	74	19154m	5.550	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.384	101	29001	5.490	ug/l	81
10) 1,1-Dichloroethene	4.360	96	28078	5.639	ug/l	82
11) Methyl Iodide	4.607	142	29671	4.940	ug/l	98
12) Methyl Acetate	5.048	43	45179	4.636	ug/l	94
13) Acrolein	4.195	56	33301	27.330	ug/l	100
14) Acrylonitrile	5.736	53	76602	25.359	ug/l	94
15) Acetone	4.442	58	20671	21.871	ug/l #	63
16) Carbon Disulfide	4.725	76	78336	5.627	ug/l	98
17) Allyl chloride	5.042	41	41554	4.836	ug/l	93
18) Methylene Chloride	5.284	84	35189m	5.693	ug/l	
19) trans-1,2-Dichloroethene	5.801	96	28983	5.269	ug/l	87
20) Diisopropyl ether	6.678	45	91601	4.543	ug/l	91
21) 1,1-Dichloroethane	6.578	63	56073	5.209	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	32513	5.191	ug/l	99
23) tert-Butyl Alcohol	5.542	59	22821m	26.295	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	87123m	5.120	ug/l	
25) Chloroform	7.972	83	60730	5.752	ug/l	97
26) Cyclohexane	8.260	56	49093	5.066	ug/l #	97
29) 1,1-Dichloropropene	8.383	75	41686	5.575	ug/l	98
30) 2-Butanone	7.495	43	95336	22.937	ug/l	94
31) 2,2-Dichloropropane	7.501	77	40406	5.189	ug/l #	62
32) 1,1,1-Trichloroethane	8.178	97	47757	5.477	ug/l	96
33) Carbon Tetrachloride	8.372	117	44306	5.846	ug/l	93
34) Benzene	8.613	78	130162	5.473	ug/l	95
35) Methacrylonitrile	7.783	41	21519	4.665	ug/l	97
36) 1,2-Dichloroethane	8.677	62	43863	5.508	ug/l	96
37) Trichloroethene	9.354	130	31602	5.656	ug/l	94
38) Methylcyclohexane	9.601	83	49246	5.194	ug/l	97
39) 1,2-Dichloropropane	9.624	63	33923	5.506	ug/l	93
40) Dibromomethane	9.713	93	21464	5.468	ug/l	88
41) Bromodichloromethane	9.889	83	43486	5.504	ug/l	93
42) Vinyl Acetate	6.619	43	282638	23.001	ug/l	97

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Manual Integrations

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Reviewed By :John Carlone 03/09/2023

Supervised By :Mahesh Dadoda 03/09/2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.572	43	37931	4.734	ug/l	#	93
44) Isopropyl Acetate	8.695	43	59996m	4.524	ug/l		
45) 1,4-Dioxane	9.701	88	10370	93.072	ug/l	#	84
46) Methyl methacrylate	9.683	41	29912	4.892	ug/l		91
47) n-amyl Acetate	12.495	43	47349	4.127	ug/l		92
48) t-1,3-Dichloropropene	10.842	75	42003	5.268	ug/l		91
49) cis-1,3-Dichloropropene	10.313	75	47205	5.160	ug/l		89
50) 1,1,2-Trichloroethane	11.019	97	32864	5.755	ug/l		88
51) Ethyl methacrylate	10.877	69	41747	5.029	ug/l		90
52) 1,3-Dichloropropane	11.166	76	54503	5.550	ug/l		99
53) Dibromochloromethane	11.360	129	31477	5.410	ug/l		99
54) 1,2-Dibromoethane	11.471	107	29295	5.302	ug/l		96
55) 2-Chloroethyl vinyl ether	10.166	63	72278	20.399	ug/l		98
56) Bromoform	12.583	173	19981	5.029	ug/l	#	39
58) 4-Methyl-2-Pentanone	10.448	43	196473	23.715	ug/l	#	91
59) 2-Hexanone	11.201	43	137586	22.537	ug/l		92
61) Tetrachloroethene	11.107	164	30099	6.319	ug/l		96
62) Toluene	10.636	91	137157	5.478	ug/l		98
64) Chlorobenzene	11.895	112	79883	5.411	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.966	131	30360	5.572	ug/l		96
66) Ethyl Benzene	11.966	91	138920	5.202	ug/l		98
67) m/p-Xylenes	12.077	106	104495	10.123	ug/l		92
68) o-Xylene	12.401	106	51708	5.091	ug/l		99
69) Styrene	12.413	104	80989	4.961	ug/l		100
70) Isopropylbenzene	12.695	105	130841	5.033	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.942	83	44516	5.331	ug/l		99
72) 1,2,3-Trichloropropane	12.995	75	40448m	5.391	ug/l		
73) Bromobenzene	12.983	156	31229	5.232	ug/l		91
74) n-propylbenzene	13.036	91	149604	4.818	ug/l		100
75) 2-Chlorotoluene	13.130	91	97663	5.250	ug/l		97
76) 1,3,5-Trimethylbenzene	13.177	105	112015	5.126	ug/l		93
77) t-1,4-Dichloro-2-butene	12.736	75	11361	4.802	ug/l		93
78) 4-Chlorotoluene	13.224	91	92541	5.194	ug/l		95
79) tert-butylbenzene	13.442	119	95279	5.000	ug/l		96
80) 1,2,4-Trimethylbenzene	13.489	105	110953	5.143	ug/l		97
81) sec-Butylbenzene	13.618	105	132452	4.825	ug/l		99
82) p-Isopropyltoluene	13.730	119	101728	4.577	ug/l		96
83) 1,3-Dichlorobenzene	13.736	146	57590	5.080	ug/l		98
84) 1,4-Dichlorobenzene	13.812	146	54244	4.880	ug/l		97
85) n-Butylbenzene	14.059	91	81682	4.318	ug/l		97
86) Hexachloroethane	14.336	117	19777	4.662	ug/l		94
87) 1,2-Dichlorobenzene	14.107	146	57707	5.088	ug/l		95
88) 1,2-Dibromo-3-Chloropr...	14.724	75	7982	5.052	ug/l		100
89) 1,2,4-Trichlorobenzene	15.395	180	25542	4.360	ug/l		94
90) Hexachlorobutadiene	15.501	225	15878	5.550	ug/l		88
91) Naphthalene	15.642	128	80113	4.265	ug/l		98
92) 1,2,3-Trichlorobenzene	15.842	180	27469	4.611	ug/l		97

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

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