

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076679.D
 Acq On : 15 Feb 2023 11:35
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 15 11:54:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 11:41:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	41027	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	275648	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	315546	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	104054	21.519	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	71.733%#		
60) 4-Bromofluorobenzene	12.854	95	169697	23.821	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	79.400%		
63) Toluene-d8	10.571	98	317262	27.383	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	91.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	436684	76.901	ug/l	98
3) Chloromethane	2.378	50	496376	72.698	ug/l	100
4) Vinyl Chloride	2.525	62	526146	88.255	ug/l	98
5) Bromomethane	2.937	94	306298	102.337	ug/l	94
6) Chloroethane	3.113	64	332370	96.780	ug/l	97
7) Trichlorofluoromethane	3.501	101	664091	65.601	ug/l	96
8) Diethyl Ether	3.972	74	274203	85.399	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.372	101	401395m	82.370	ug/l	
10) 1,1-Dichloroethene	4.348	96	388478	84.832	ug/l	94
11) Methyl Iodide	4.601	142	612745	92.099	ug/l	93
12) Methyl Acetate	5.037	43	791290	82.342	ug/l	94
13) Acrolein	4.190	56	457081	371.349	ug/l	99
14) Acrylonitrile	5.731	53	1233141	437.994	ug/l	99
15) Acetone	4.437	58	353469	434.817	ug/l	97
16) Carbon Disulfide	4.719	76	1123428	89.264	ug/l	98
17) Allyl chloride	5.037	41	713266	80.794	ug/l	94
18) Methylene Chloride	5.284	84	466668	86.120	ug/l	96
19) trans-1,2-Dichloroethene	5.795	96	439433	93.411	ug/l	97
20) Diisopropyl ether	6.678	45	1655614	82.157	ug/l	94
21) 1,1-Dichloroethane	6.578	63	851940	77.527	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	510024	90.481	ug/l	97
23) tert-Butyl Alcohol	5.537	59	372171	393.934	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	1393005	84.463	ug/l	97
25) Chloroform	7.972	83	849726	78.145	ug/l	99
26) Cyclohexane	8.266	56	788874	80.898	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	646499	90.610	ug/l	97
30) 2-Butanone	7.489	43	1792604	465.456	ug/l	98
31) 2,2-Dichloropropane	7.501	77	674701m	91.076	ug/l	
32) 1,1,1-Trichloroethane	8.178	97	743792	84.021	ug/l	98
33) Carbon Tetrachloride	8.366	117	659021	86.295	ug/l	97
34) Benzene	8.613	78	1977463	90.201	ug/l	98
35) Methacrylonitrile	7.783	41	404445	91.333	ug/l	98
36) 1,2-Dichloroethane	8.677	62	655105	77.925	ug/l	99
37) Trichloroethene	9.354	130	477397	106.357	ug/l	99
38) Methylcyclohexane	9.607	83	822381	104.135	ug/l	99
39) 1,2-Dichloropropane	9.624	63	508255	97.148	ug/l	94
40) Dibromomethane	9.713	93	332802	96.693	ug/l	93
41) Bromodichloromethane	9.889	83	672249	92.893	ug/l	96
42) Vinyl Acetate	6.613	43	5654814	451.405	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	706959	90.022	ug/l	98
44) Isopropyl Acetate	8.695	43	1192451	92.310	ug/l	100
45) 1,4-Dioxane	9.695	88	195313	1854.749	ug/l	97
46) Methyl methacrylate	9.683	41	554902	89.093	ug/l	99
47) n-amyl Acetate	12.495	43	1134530	103.326	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	741168	101.742	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	810288	100.621	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	477898	102.240	ug/l	96
51) Ethyl methacrylate	10.877	69	769893	103.730	ug/l	97
52) 1,3-Dichloropropane	11.166	76	827830	95.009	ug/l	99
53) Dibromochloromethane	11.360	129	534583	110.063	ug/l	98
54) 1,2-Dibromoethane	11.471	107	497191	105.116	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	1666538	491.575	ug/l	98
56) Bromoform	12.583	173	393445	125.774	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	3684691	417.717	ug/l	99
59) 2-Hexanone	11.201	43	2722887	424.549	ug/l	99
61) Tetrachloroethene	11.107	164	398700	98.846	ug/l	93
62) Toluene	10.636	91	2137631	91.372	ug/l	100
64) Chlorobenzene	11.895	112	1317105	97.185	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	482622	93.933	ug/l	97
66) Ethyl Benzene	11.966	91	2377287	92.691	ug/l	97
67) m/p-Xylenes	12.071	106	1859284	193.215	ug/l	100
68) o-Xylene	12.401	106	913398	96.347	ug/l	97
69) Styrene	12.413	104	1539120	102.282	ug/l	98
70) Isopropylbenzene	12.701	105	2422058	95.336	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	738042	83.324	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	701879m	86.760	ug/l	
73) Bromobenzene	12.983	156	556913	92.382	ug/l	97
74) n-propylbenzene	13.036	91	2897088	88.911	ug/l	98
75) 2-Chlorotoluene	13.130	91	1632182	79.631	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	2002289	84.399	ug/l	100
77) t-1,4-Dichloro-2-butene	12.742	75	242340	99.316	ug/l	95
78) 4-Chlorotoluene	13.224	91	1615605	78.392	ug/l	100
79) tert-butylbenzene	13.442	119	1790093	88.896	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	2010035	85.913	ug/l	100
81) sec-Butylbenzene	13.618	105	2626111	93.136	ug/l	98
82) p-Isopropyltoluene	13.730	119	2188868	96.613	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	1080671	96.919	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	1098644	98.759	ug/l	99
85) n-Butylbenzene	14.059	91	1960040	93.162	ug/l	97
86) Hexachloroethane	14.336	117	403174	91.650	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	1099354	89.816	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	149742	82.940	ug/l	84
89) 1,2,4-Trichlorobenzene	15.395	180	645375	126.426	ug/l	98
90) Hexachlorobutadiene	15.506	225	285057	115.591	ug/l	96
91) Naphthalene	15.642	128	2056514	118.074	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	617215	121.143	ug/l	98

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

