

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079572.D
 Acq On : 17 Oct 2023 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 18 02:01:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 01:58:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	22036	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	162039	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	206985	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	89313	28.507	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.033%		
60) 4-Bromofluorobenzene	12.853	95	124266	32.830	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	109.433%		
63) Toluene-d8	10.570	98	259205	29.224	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	279960	87.607	ug/l	99
3) Chloromethane	2.365	50	340781	82.277	ug/l	99
4) Vinyl Chloride	2.518	62	390731	87.410	ug/l	98
5) Bromomethane	2.942	94	221822	80.034	ug/l	97
6) Chloroethane	3.112	64	265977	84.538	ug/l	93
7) Trichlorofluoromethane	3.494	101	480325	88.059	ug/l	97
8) Diethyl Ether	3.959	74	181578	91.850	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	277992	89.079	ug/l	98
10) 1,1-Dichloroethene	4.341	96	268889	90.560	ug/l	93
11) Methyl Iodide	4.594	142	346093	105.280	ug/l	98
12) Methyl Acetate	5.024	43	603484	84.311	ug/l	99
13) Acrolein	4.183	56	267654	452.357	ug/l	98
14) Acrylonitrile	5.724	53	758674	442.603	ug/l	99
15) Acetone	4.424	58	240128	441.178	ug/l	81
16) Carbon Disulfide	4.712	76	804234	88.828	ug/l	98
17) Allyl chloride	5.024	41	413644	90.360	ug/l	99
18) Methylene Chloride	5.283	84	315984	86.462	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	301367	90.727	ug/l	99
20) Diisopropyl ether	6.677	45	983387	90.596	ug/l	98
21) 1,1-Dichloroethane	6.571	63	584675	88.641	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	354466	92.648	ug/l	96
23) tert-Butyl Alcohol	5.524	59	219580	382.777	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	908946	91.238	ug/l	100
25) Chloroform	7.971	83	592506	88.900	ug/l	94
26) Cyclohexane	8.259	56	477473	95.761	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	455491	96.190	ug/l	99
30) 2-Butanone	7.488	43	1085428	457.283	ug/l	100
31) 2,2-Dichloropropane	7.494	77	498180	93.308	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	512678	91.090	ug/l	99
33) Carbon Tetrachloride	8.365	117	448688	93.735	ug/l	95
34) Benzene	8.612	78	1330978	92.511	ug/l	97
35) Methacrylonitrile	7.782	41	223029	89.321	ug/l	98
36) 1,2-Dichloroethane	8.671	62	467734	91.052	ug/l	100
37) Trichloroethene	9.353	130	315434	93.795	ug/l	100
38) Methylcyclohexane	9.606	83	467526	102.545	ug/l	98
39) 1,2-Dichloropropane	9.623	63	352786	92.918	ug/l	100
40) Dibromomethane	9.712	93	229472	92.095	ug/l	98
41) Bromodichloromethane	9.888	83	476701	92.317	ug/l	99
42) Vinyl Acetate	6.606	43	2913055	483.795	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	420272	94.160	ug/l	95
44) Isopropyl Acetate	8.688	43	706136	88.998	ug/l	97
45) 1,4-Dioxane	9.700	88	113582	1828.792	ug/l #	93
46) Methyl methacrylate	9.682	41	333406	94.717	ug/l	93
47) n-amyl Acetate	12.500	43	615816	107.541	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	520516	99.713	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	556438	97.481	ug/l	98
50) 1,1,2-Trichloroethane	11.023	97	317303	91.795	ug/l	97
51) Ethyl methacrylate	10.876	69	490476	102.845	ug/l	98
52) 1,3-Dichloropropane	11.165	76	564506	92.184	ug/l	99
53) Dibromochloromethane	11.365	129	341343	96.621	ug/l	100
54) 1,2-Dibromoethane	11.470	107	317855	93.208	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	1232119	677.152	ug/l	99
56) Bromoform	12.582	173	233842	100.056	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	2187994	453.203	ug/l	99
59) 2-Hexanone	11.200	43	1635092	461.648	ug/l	98
61) Tetrachloroethene	11.106	164	255958	90.066	ug/l	98
62) Toluene	10.635	91	1447496	91.504	ug/l	99
64) Chlorobenzene	11.894	112	848746	92.509	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.965	131	318802	91.219	ug/l	98
66) Ethyl Benzene	11.965	91	1647406	101.075	ug/l	100
67) m/p-Xylenes	12.076	106	1223070	202.885	ug/l	96
68) o-Xylene	12.400	106	589814	102.344	ug/l	100
69) Styrene	12.417	104	988015	107.993	ug/l	99
70) Isopropylbenzene	12.700	105	1528509	103.349	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	469399	89.260	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	474640m	93.677	ug/l	
73) Bromobenzene	12.982	156	345697	99.501	ug/l	100
74) n-propylbenzene	13.041	91	1837955	106.743	ug/l	99
75) 2-Chlorotoluene	13.129	91	1076582	100.573	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	1256082	103.891	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	152612	104.705	ug/l	95
78) 4-Chlorotoluene	13.223	91	1079859	106.769	ug/l	100
79) tert-butylbenzene	13.441	119	1004183	103.302	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	1256832	107.283	ug/l	100
81) sec-Butylbenzene	13.617	105	1451762	106.383	ug/l	99
82) p-Isopropyltoluene	13.735	119	1209514	111.733	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	628686	110.044	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	611977	111.737	ug/l	99
85) n-Butylbenzene	14.059	91	1037480	122.665	ug/l	97
86) Hexachloroethane	14.335	117	230677	98.570	ug/l	98
87) 1,2-Dichlorobenzene	14.111	146	600741	105.792	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	77561	96.793	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	233366	116.595	ug/l	98
90) Hexachlorobutadiene	15.505	225	135549	95.610	ug/l	99
91) Naphthalene	15.647	128	658325	127.508	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	233366	116.595	ug/l	98

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

