

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086374.D
 Acq On : 23 Apr 2025 10:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	14985	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	94342	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	83208	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	46482	32.173	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.233%			
60) 4-Bromofluorobenzene	12.847	95	47386	28.975	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.600%			
63) Toluene-d8	10.565	98	139428	30.458	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	23237	22.461	ug/l	94
3) Chloromethane	2.360	50	32735	22.275	ug/l	96
4) Vinyl Chloride	2.518	62	31706	22.526	ug/l	100
5) Bromomethane	2.965	94	17227	23.443	ug/l	96
6) Chloroethane	3.124	64	20344	21.681	ug/l	98
7) Trichlorofluoromethane	3.506	101	35120	21.139	ug/l	97
8) Diethyl Ether	3.954	74	15107	21.542	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	21550	21.099	ug/l	68
10) 1,1-Dichloroethene	4.342	96	22214	21.249	ug/l	92
11) Methyl Iodide	4.595	142	27244	22.273	ug/l	94
12) Methyl Acetate	5.024	43	33220	22.420	ug/l	100
13) Acrolein	4.177	56	4679	51.316	ug/l #	64
14) Acrylonitrile	5.712	53	61193	110.962	ug/l	100
15) Acetone	4.430	58	15647	102.967	ug/l	83
16) Carbon Disulfide	4.712	76	62940	22.848	ug/l	98
17) Allyl chloride	5.024	41	36824	22.030	ug/l	95
18) Methylene Chloride	5.277	84	26366	22.147	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	24289	21.798	ug/l	96
20) Diisopropyl ether	6.665	45	83886	21.106	ug/l	98
21) 1,1-Dichloroethane	6.565	63	47672	21.912	ug/l	95
22) cis-1,2-Dichloroethene	7.489	96	30349	21.782	ug/l	97
23) tert-Butyl Alcohol	5.506	59	25995	121.681	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	83899	21.722	ug/l	99
25) Chloroform	7.959	83	47626	21.630	ug/l	98
26) Cyclohexane	8.259	56	42204	21.971	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	32771	19.704	ug/l	98
30) 2-Butanone	7.483	43	83711	103.698	ug/l	100
31) 2,2-Dichloropropane	7.489	77	42457	19.858	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	40622	20.439	ug/l	98
33) Carbon Tetrachloride	8.359	117	33025	20.185	ug/l	93
34) Benzene	8.600	78	109331	20.668	ug/l	97
35) Methacrylonitrile	7.777	41	18614	20.214	ug/l	96
36) 1,2-Dichloroethane	8.671	62	36373	21.178	ug/l	100
37) Trichloroethene	9.347	130	26541	20.042	ug/l	98
38) Methylcyclohexane	9.594	83	40193	20.925	ug/l	98
39) 1,2-Dichloropropane	9.618	63	26392	20.195	ug/l	98
40) Dibromomethane	9.706	93	17655	20.201	ug/l	95
41) Bromodichloromethane	9.883	83	38943	21.057	ug/l	98
42) Vinyl Acetate	6.600	43	294660	105.371	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086374.D
 Acq On : 23 Apr 2025 10:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Apr 24 04:21:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	33800	21.158	ug/l	99
44) Isopropyl Acetate	8.683	43	64676	21.331	ug/l	98
45) 1,4-Dioxane	9.688	88	10816	457.212	ug/l	96
46) Methyl methacrylate	9.677	41	28646	20.482	ug/l	98
47) n-amyl Acetate	12.488	43	48225	18.661	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	40906	19.784	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	44083	20.217	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	24730	20.259	ug/l	98
51) Ethyl methacrylate	10.871	69	42091	19.798	ug/l	97
52) 1,3-Dichloropropane	11.159	76	42636	19.762	ug/l	99
53) Dibromochloromethane	11.359	129	26793	19.547	ug/l	99
54) 1,2-Dibromoethane	11.465	107	24702	19.902	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	19429	19.438	ug/l	99
56) Bromoform	12.576	173	17427	19.592	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	173992	108.057	ug/l	99
59) 2-Hexanone	11.188	43	126638	106.724	ug/l	98
61) Tetrachloroethene	11.100	164	26080	20.550	ug/l	96
62) Toluene	10.624	91	115551	20.747	ug/l	99
64) Chlorobenzene	11.888	112	70523	20.321	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	23497	20.249	ug/l	99
66) Ethyl Benzene	11.959	91	126637	20.200	ug/l	98
67) m/p-Xylenes	12.065	106	94219	39.609	ug/l	98
68) o-Xylene	12.394	106	47134	20.237	ug/l	99
69) Styrene	12.406	104	76280	19.323	ug/l	98
70) Isopropylbenzene	12.688	105	117022	20.128	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	32636	21.319	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	27690m	20.874	ug/l	
73) Bromobenzene	12.976	156	26179	19.586	ug/l	99
74) n-propylbenzene	13.029	91	137677	19.928	ug/l	100
75) 2-Chlorotoluene	13.124	91	86184	19.983	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	95657	20.052	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	12868	18.998	ug/l	96
78) 4-Chlorotoluene	13.218	91	83754	19.422	ug/l	99
79) tert-butylbenzene	13.435	119	83788	20.508	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	95917	19.688	ug/l	98
81) sec-Butylbenzene	13.612	105	117498	20.147	ug/l	99
82) p-Isopropyltoluene	13.723	119	95332	19.535	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	49157	19.455	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	47190	18.903	ug/l	98
85) n-Butylbenzene	14.053	91	83284	19.126	ug/l	100
86) Hexachloroethane	14.329	117	15481	19.401	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	47930	19.936	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	6078	19.533	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	22489	20.524	ug/l	99
90) Hexachlorobutadiene	15.494	225	9289	21.046	ug/l	97
91) Naphthalene	15.635	128	78425	19.992	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	22489	20.524	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086374.D
Acq On : 23 Apr 2025 10:09
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 03:57:58 2025
Response via : Initial Calibration

