

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086390.D
 Acq On : 23 Apr 2025 18:25
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

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

Quant Time: Apr 24 05:02:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28689	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168285	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155860	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80387	29.063	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.867%		
60) 4-Bromofluorobenzene	12.847	95	89927	29.356	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.867%		
63) Toluene-d8	10.565	98	255638	29.813	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37214	18.789	ug/l	96
3) Chloromethane	2.359	50	51479	18.297	ug/l	100
4) Vinyl Chloride	2.518	62	50217	18.636	ug/l	99
5) Bromomethane	2.959	94	27915	19.842	ug/l	100
6) Chloroethane	3.124	64	34399	19.148	ug/l	96
7) Trichlorofluoromethane	3.501	101	58996	18.548	ug/l	96
8) Diethyl Ether	3.959	74	24686	18.386	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	37306	19.078	ug/l	97
10) 1,1-Dichloroethene	4.348	96	37075	18.524	ug/l	97
11) Methyl Iodide	4.589	142	45345	19.363	ug/l	94
12) Methyl Acetate	5.024	43	59652	21.028	ug/l	95
13) Acrolein	4.189	56	12867m	90.484	ug/l	
14) Acrylonitrile	5.718	53	106448	100.821	ug/l	99
15) Acetone	4.424	58	27477	94.445	ug/l	89
16) Carbon Disulfide	4.712	76	95745	18.155	ug/l	98
17) Allyl chloride	5.024	41	57916	18.097	ug/l	96
18) Methylene Chloride	5.271	84	42940	18.839	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	39391	18.465	ug/l	99
20) Diisopropyl ether	6.671	45	139823	18.376	ug/l	95
21) 1,1-Dichloroethane	6.565	63	77877	18.697	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	50177	18.811	ug/l	96
23) tert-Butyl Alcohol	5.512	59	46493	113.674	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	141568	19.145	ug/l	100
25) Chloroform	7.965	83	79185	18.785	ug/l	99
26) Cyclohexane	8.253	56	65568	17.829	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	55315	18.645	ug/l	99
30) 2-Butanone	7.477	43	142726	99.118	ug/l #	97
31) 2,2-Dichloropropane	7.489	77	66289	17.382	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	68565	19.340	ug/l	99
33) Carbon Tetrachloride	8.359	117	54717	18.749	ug/l	99
34) Benzene	8.600	78	178778	18.946	ug/l	96
35) Methacrylonitrile	7.777	41	32875	20.014	ug/l	95
36) 1,2-Dichloroethane	8.665	62	58981	19.252	ug/l	100
37) Trichloroethene	9.347	130	43484	18.408	ug/l	95
38) Methylcyclohexane	9.600	83	62437	18.222	ug/l	99
39) 1,2-Dichloropropane	9.618	63	43718	18.754	ug/l	96
40) Dibromomethane	9.706	93	30294	19.432	ug/l	98
41) Bromodichloromethane	9.883	83	63665	19.298	ug/l	96
42) Vinyl Acetate	6.600	43	479933	96.214	ug/l	100

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 ALS Vial : 20 Sample Multiplier: 1

Instrument :
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 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	57073	20.028	ug/l	97
44) Isopropyl Acetate	8.683	43	106896	19.765	ug/l	99
45) 1,4-Dioxane	9.694	88	19104	452.726	ug/l	94
46) Methyl methacrylate	9.677	41	48975	19.631	ug/l	98
47) n-amyl Acetate	12.488	43	84813	18.399	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	67591	18.326	ug/l	94
49) cis-1,3-Dichloropropene	10.312	75	72754	18.706	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	41661	19.133	ug/l	98
51) Ethyl methacrylate	10.871	69	72228	19.046	ug/l	99
52) 1,3-Dichloropropane	11.159	76	75071	19.507	ug/l	97
53) Dibromochloromethane	11.353	129	46649	19.079	ug/l	99
54) 1,2-Dibromoethane	11.465	107	43010	19.426	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	174243	97.726	ug/l	98
56) Bromoform	12.576	173	30668	19.329	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	301799	100.062	ug/l	100
59) 2-Hexanone	11.194	43	228265	102.699	ug/l	99
61) Tetrachloroethene	11.100	164	43216	18.179	ug/l	97
62) Toluene	10.630	91	199432	19.116	ug/l	100
64) Chlorobenzene	11.888	112	124307	19.122	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	41961	19.305	ug/l	99
66) Ethyl Benzene	11.959	91	221969	18.902	ug/l	99
67) m/p-Xylenes	12.071	106	167642	37.625	ug/l	98
68) o-Xylene	12.394	106	84431	19.353	ug/l	98
69) Styrene	12.406	104	140229	18.964	ug/l	99
70) Isopropylbenzene	12.694	105	207230	19.029	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60053	20.943	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	50682m	20.273	ug/l	
73) Bromobenzene	12.976	156	47715	19.058	ug/l	98
74) n-propylbenzene	13.035	91	240186	18.560	ug/l	100
75) 2-Chlorotoluene	13.123	91	153270	18.973	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	168707	18.880	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	23430	18.467	ug/l	95
78) 4-Chlorotoluene	13.218	91	149730	18.537	ug/l	100
79) tert-butylbenzene	13.435	119	144573	18.892	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	169022	18.521	ug/l	97
81) sec-Butylbenzene	13.612	105	202665	18.552	ug/l	99
82) p-Isopropyltoluene	13.723	119	163797	17.919	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	88176	18.631	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	87436	18.699	ug/l	99
85) n-Butylbenzene	14.053	91	140845	17.268	ug/l	99
86) Hexachloroethane	14.329	117	27351	18.299	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	85350	18.953	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.712	75	11274	19.343	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	36958	18.007	ug/l	98
90) Hexachlorobutadiene	15.500	225	14101	17.056	ug/l	97
91) Naphthalene	15.635	128	132898	18.086	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	36958	18.007	ug/l	98

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

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