

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33412	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185962	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170233	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80133	30.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.847	95	82875	29.423	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.067%			
63) Toluene-d8	10.565	98	235545	29.497	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	56261	21.047	ug/l	99
3) Chloromethane	2.359	50	49600	20.963	ug/l	97
4) Vinyl Chloride	2.512	62	50136	20.717	ug/l	97
5) Bromomethane	2.965	94	31223	20.321	ug/l	96
6) Chloroethane	3.124	64	32014	21.532	ug/l	92
7) Trichlorofluoromethane	3.506	101	82951	20.940	ug/l	100
8) Diethyl Ether	3.959	74	25301	20.165	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	44657	20.159	ug/l	99
10) 1,1-Dichloroethene	4.342	96	41142	20.219	ug/l	99
11) Methyl Iodide	4.595	142	48050	17.027	ug/l	96
12) Methyl Acetate	5.018	43	46842	19.513	ug/l	98
13) Acrolein	4.177	56	26169	75.017	ug/l	96
14) Acrylonitrile	5.712	53	94996	95.305	ug/l	98
15) Acetone	4.424	58	28736	106.386	ug/l	96
16) Carbon Disulfide	4.706	76	122618	20.161	ug/l	99
17) Allyl chloride	5.024	41	59479	20.428	ug/l	91
18) Methylene Chloride	5.277	84	45057	19.515	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	42471	20.081	ug/l	92
20) Diisopropyl ether	6.665	45	131789	20.625	ug/l	96
21) 1,1-Dichloroethane	6.565	63	79692	20.207	ug/l #	96
22) cis-1,2-Dichloroethene	7.477	96	49862	20.511	ug/l	99
23) tert-Butyl Alcohol	5.518	59	32619	91.223	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	130198	20.480	ug/l #	75
25) Chloroform	7.959	83	84820	20.530	ug/l	93
26) Cyclohexane	8.253	56	65168	20.069	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	57776	19.254	ug/l	99
30) 2-Butanone	7.477	43	130116	94.489	ug/l	98
31) 2,2-Dichloropropane	7.488	77	76289	19.826	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	78244	19.264	ug/l	98
33) Carbon Tetrachloride	8.359	117	69225	18.888	ug/l	99
34) Benzene	8.600	78	181426	19.246	ug/l #	94
35) Methacrylonitrile	7.771	41	28129	18.152	ug/l	96
36) 1,2-Dichloroethane	8.665	62	62153	19.368	ug/l	99
37) Trichloroethene	9.347	130	44782	19.949	ug/l	89
38) Methylcyclohexane	9.600	83	61994	19.000	ug/l	97
39) 1,2-Dichloropropane	9.618	63	43708	19.143	ug/l	98
40) Dibromomethane	9.706	93	31562	19.271	ug/l	98
41) Bromodichloromethane	9.882	83	67723	19.343	ug/l	97
42) Vinyl Acetate	6.600	43	471771	97.906	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49499	18.066	ug/l	96
44) Isopropyl Acetate	8.682	43	89011	18.694	ug/l	100
45) 1,4-Dioxane	9.688	88	15602	392.939	ug/l	95
46) Methyl methacrylate	9.677	41	40601	18.632	ug/l	97
47) n-amyl Acetate	12.494	43	73556	18.361	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	65995	19.202	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	73124	19.544	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	42618	19.311	ug/l	96
51) Ethyl methacrylate	10.871	69	62332	18.569	ug/l	96
52) 1,3-Dichloropropane	11.159	76	70887	19.192	ug/l	99
53) Dibromochloromethane	11.359	129	51019	18.970	ug/l	97
54) 1,2-Dibromoethane	11.465	107	42506	19.116	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	122170	78.348	ug/l	99
56) Bromoform	12.570	173	33630	18.650	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	254378	91.560	ug/l	97
59) 2-Hexanone	11.194	43	198443	94.267	ug/l	98
61) Tetrachloroethene	11.100	164	40993	19.885	ug/l	89
62) Toluene	10.624	91	193265	19.467	ug/l	99
64) Chlorobenzene	11.888	112	119028	19.419	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	44343	19.379	ug/l	99
66) Ethyl Benzene	11.959	91	207827	19.728	ug/l	97
67) m/p-Xylenes	12.071	106	159560	39.379	ug/l	96
68) o-Xylene	12.394	106	76900	20.208	ug/l	97
69) Styrene	12.406	104	129131	19.998	ug/l	100
70) Isopropylbenzene	12.694	105	196429	20.013	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	56150	18.796	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	45287m	15.346	ug/l	
73) Bromobenzene	12.976	156	48280	19.638	ug/l	98
74) n-propylbenzene	13.029	91	229571	19.456	ug/l	99
75) 2-Chlorotoluene	13.123	91	143192	19.627	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	167597	19.931	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	20254	18.888	ug/l	90
78) 4-Chlorotoluene	13.217	91	144822	19.557	ug/l	99
79) tert-butylbenzene	13.435	119	137376	19.890	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	167722	20.193	ug/l	98
81) sec-Butylbenzene	13.612	105	191002	19.466	ug/l	98
82) p-Isopropyltoluene	13.723	119	161402	19.841	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	86373	19.150	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	85216	19.386	ug/l	99
85) n-Butylbenzene	14.053	91	132097	19.359	ug/l	98
86) Hexachloroethane	14.335	117	31250	19.297	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	82331	19.338	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10161	17.026	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96
90) Hexachlorobutadiene	15.494	225	21664	19.995	ug/l	99
91) Naphthalene	15.635	128	120498	18.602	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96

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

