

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084078.D
 Acq On : 20 Sep 2024 18:22
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/23/2024
 Supervised By : Mahesh Dadoda 09/23/2024

Quant Time: Sep 20 23:30:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	25554	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	142558	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	127859	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	71304	30.526	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.767%			
60) 4-Bromofluorobenzene	12.847	95	65215	29.594	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.633%			
63) Toluene-d8	10.565	98	186384	31.482	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33303	19.461	ug/l	93
3) Chloromethane	2.359	50	35617	20.031	ug/l	96
4) Vinyl Chloride	2.512	62	35816	19.594	ug/l	92
5) Bromomethane	2.954	94	21941	21.484	ug/l	93
6) Chloroethane	3.118	64	23600	19.281	ug/l	100
7) Trichlorofluoromethane	3.495	101	58781	19.181	ug/l	99
8) Diethyl Ether	3.965	74	18994	18.241	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.371	101	30796	18.709	ug/l	93
10) 1,1-Dichloroethene	4.342	96	28430	17.900	ug/l #	70
11) Methyl Iodide	4.583	142	37406m	17.339	ug/l	
12) Methyl Acetate	5.030	43	44255	23.105	ug/l #	76
13) Acrolein	4.183	56	28241	101.028	ug/l	98
14) Acrylonitrile	5.724	53	84368	108.843	ug/l	99
15) Acetone	4.430	58	21937m	85.315	ug/l	
16) Carbon Disulfide	4.712	76	81589	18.177	ug/l	96
17) Allyl chloride	5.024	41	48632	17.461	ug/l	89
18) Methylene Chloride	5.277	84	34984	20.133	ug/l #	79
19) trans-1,2-Dichloroethene	5.789	96	30595	18.586	ug/l	96
20) Diisopropyl ether	6.671	45	113500	20.179	ug/l	96
21) 1,1-Dichloroethane	6.565	63	64343	20.036	ug/l	95
22) cis-1,2-Dichloroethene	7.489	96	37838	18.886	ug/l	93
23) tert-Butyl Alcohol	5.524	59	31822	111.875	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	108076	19.149	ug/l #	90
25) Chloroform	7.965	83	67085	19.712	ug/l	99
26) Cyclohexane	8.259	56	51255	18.122	ug/l #	84
29) 1,1-Dichloropropene	8.371	75	44275	19.581	ug/l	98
30) 2-Butanone	7.489	43	119677	112.279	ug/l	92
31) 2,2-Dichloropropane	7.494	77	45797	15.886	ug/l #	74
32) 1,1,1-Trichloroethane	8.171	97	60761	20.121	ug/l	96
33) Carbon Tetrachloride	8.365	117	52183	19.954	ug/l	93
34) Benzene	8.606	78	140651	20.731	ug/l	97
35) Methacrylonitrile	7.783	41	27296	22.781	ug/l	94
36) 1,2-Dichloroethane	8.671	62	53261	20.882	ug/l #	93
37) Trichloroethene	9.353	130	32245	20.239	ug/l	100
38) Methylcyclohexane	9.600	83	45455	16.791	ug/l	91
39) 1,2-Dichloropropane	9.618	63	35544	21.768	ug/l	98
40) Dibromomethane	9.706	93	25307	21.196	ug/l	95
41) Bromodichloromethane	9.888	83	55576	21.890	ug/l #	98
42) Vinyl Acetate	6.606	43	426573	97.338	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	44032	20.524	ug/l #	92
44) Isopropyl Acetate	8.694	43	112095	30.209	ug/l #	78
45) 1,4-Dioxane	9.694	88	13703	473.465	ug/l #	90
46) Methyl methacrylate	9.682	41	38422	21.392	ug/l	83
47) n-amyl Acetate	12.494	43	74453	22.651	ug/l	91
48) t-1,3-Dichloropropene	10.835	75	50402	18.873	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	53575	19.290	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	33799	22.248	ug/l	95
51) Ethyl methacrylate	10.877	69	52143	20.090	ug/l	73
52) 1,3-Dichloropropane	11.165	76	57328	20.896	ug/l	100
53) Dibromochloromethane	11.359	129	38317	21.028	ug/l	100
54) 1,2-Dibromoethane	11.471	107	32324	20.567	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	114429	110.625	ug/l	96
56) Bromoform	12.582	173	24867	21.480	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	253081	124.833	ug/l #	86
59) 2-Hexanone	11.194	43	183456m	119.757	ug/l	
61) Tetrachloroethene	11.106	164	27471	20.301	ug/l	86
62) Toluene	10.629	91	150961	20.541	ug/l	99
64) Chlorobenzene	11.894	112	91991	20.217	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	33019	20.831	ug/l	98
66) Ethyl Benzene	11.965	91	159596	19.096	ug/l	97
67) m/p-Xylenes	12.071	106	119872	38.986	ug/l	96
68) o-Xylene	12.400	106	57549	19.339	ug/l	96
69) Styrene	12.412	104	99222	19.733	ug/l	99
70) Isopropylbenzene	12.694	105	149233	19.003	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	49571	23.111	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	42696m	22.704	ug/l	
73) Bromobenzene	12.982	156	35311	19.576	ug/l	91
74) n-propylbenzene	13.035	91	176748	19.226	ug/l	98
75) 2-Chlorotoluene	13.123	91	111289	19.396	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	128280	19.555	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	15170	19.085	ug/l	84
78) 4-Chlorotoluene	13.223	91	111642	19.187	ug/l	99
79) tert-butylbenzene	13.441	119	106492	18.564	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	127496	19.233	ug/l	99
81) sec-Butylbenzene	13.618	105	151006	19.270	ug/l	98
82) p-Isopropyltoluene	13.729	119	120249	18.238	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	66312	19.101	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	63921	18.417	ug/l	98
85) n-Butylbenzene	14.059	91	102139	17.555	ug/l	97
86) Hexachloroethane	14.335	117	23620	18.905	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	63584	18.872	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10390	22.042	ug/l	86
89) 1,2,4-Trichlorobenzene	15.841	180	29899	16.198	ug/l	99
90) Hexachlorobutadiene	15.500	225	14032	18.366	ug/l	95
91) Naphthalene	15.641	128	95559	15.835	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	29899	16.198	ug/l	99

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

