

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090924\
 Data File : VN083715.D
 Acq On : 09 Sep 2024 14:06
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/10/2024
 Supervised By : Mahesh Dadoda 09/10/2024

Quant Time: Sep 10 01:20:43 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	27370	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	156228	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143331	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75624	30.228	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.847	95	73725	29.845	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.467%			
63) Toluene-d8	10.565	98	197464	29.753	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37304	20.353	ug/l	95
3) Chloromethane	2.359	50	38481	20.206	ug/l	99
4) Vinyl Chloride	2.512	62	38309	19.567	ug/l	93
5) Bromomethane	2.906	94	21892	20.014	ug/l	94
6) Chloroethane	3.077	64	28025	21.377	ug/l	91
7) Trichlorofluoromethane	3.477	101	64791	19.740	ug/l	99
8) Diethyl Ether	3.953	74	22261	19.960	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.359	101	35791	20.300	ug/l	94
10) 1,1-Dichloroethene	4.324	96	33372	19.618	ug/l	90
11) Methyl Iodide	4.577	142	45592	19.731	ug/l	93
12) Methyl Acetate	5.018	43	41137	20.052	ug/l #	81
13) Acrolein	4.171	56	37362	124.789	ug/l	99
14) Acrylonitrile	5.718	53	83528	100.610	ug/l	99
15) Acetone	4.424	58	22695	82.407	ug/l	74
16) Carbon Disulfide	4.694	76	88968	18.506	ug/l	99
17) Allyl chloride	5.012	41	58958	19.764	ug/l	84
18) Methylene Chloride	5.265	84	38191	20.521	ug/l	87
19) trans-1,2-Dichloroethene	5.777	96	34496	19.566	ug/l	96
20) Diisopropyl ether	6.671	45	118958	19.746	ug/l	99
21) 1,1-Dichloroethane	6.565	63	70250	20.424	ug/l	93
22) cis-1,2-Dichloroethene	7.482	96	42711	19.904	ug/l	93
23) tert-Butyl Alcohol	5.536	59	31461m	103.267	ug/l	
24) Methyl tert-Butyl Ether	5.788	73	119622	19.788	ug/l #	87
25) Chloroform	7.965	83	73883	20.269	ug/l	100
26) Cyclohexane	8.253	56	58629	19.353	ug/l #	89
29) 1,1-Dichloropropene	8.365	75	49455	19.958	ug/l	97
30) 2-Butanone	7.482	43	114699	98.193	ug/l	95
31) 2,2-Dichloropropane	7.482	77	66903	21.177	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	67110	20.279	ug/l	96
33) Carbon Tetrachloride	8.359	117	59669	20.821	ug/l	95
34) Benzene	8.600	78	153461	20.640	ug/l #	96
35) Methacrylonitrile	7.777	41	27098	20.637	ug/l	94
36) 1,2-Dichloroethane	8.671	62	58788	21.032	ug/l #	94
37) Trichloroethene	9.353	130	34648	19.845	ug/l	90
38) Methylcyclohexane	9.600	83	59581	20.083	ug/l	95
39) 1,2-Dichloropropane	9.618	63	36243	20.254	ug/l	98
40) Dibromomethane	9.706	93	26854	20.524	ug/l	94
41) Bromodichloromethane	9.888	83	56808	20.418	ug/l	95
42) Vinyl Acetate	6.600	43	463100	96.427	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47611	20.250	ug/l	96
44) Isopropyl Acetate	8.688	43	85317	20.980	ug/l	90
45) 1,4-Dioxane	9.694	88	13165	415.074	ug/l #	95
46) Methyl methacrylate	9.676	41	40087	20.366	ug/l	82
47) n-amyl Acetate	12.494	43	73814	20.492	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	56681	19.368	ug/l	92
49) cis-1,3-Dichloropropene	10.312	75	61736	20.283	ug/l #	85
50) 1,1,2-Trichloroethane	11.018	97	35493	21.318	ug/l	100
51) Ethyl methacrylate	10.876	69	56424	19.837	ug/l	74
52) 1,3-Dichloropropane	11.159	76	62396	20.753	ug/l	98
53) Dibromochloromethane	11.359	129	40130	20.096	ug/l	99
54) 1,2-Dibromoethane	11.470	107	34942	20.287	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	101169	89.248	ug/l	98
56) Bromoform	12.576	173	24229	19.098	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	238307	104.857	ug/l #	88
59) 2-Hexanone	11.194	43	173776	101.193	ug/l	88
61) Tetrachloroethene	11.100	164	29372	19.363	ug/l	90
62) Toluene	10.629	91	163651	19.864	ug/l	100
64) Chlorobenzene	11.888	112	98455	19.302	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	35977	20.247	ug/l	98
66) Ethyl Benzene	11.965	91	179344	19.143	ug/l	99
67) m/p-Xylenes	12.070	106	133532	38.741	ug/l	97
68) o-Xylene	12.400	106	66236	19.855	ug/l	98
69) Styrene	12.412	104	109074	19.351	ug/l	99
70) Isopropylbenzene	12.694	105	172528	19.598	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	48760	20.279	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	44495m	21.106	ug/l	
73) Bromobenzene	12.982	156	39714	19.640	ug/l	97
74) n-propylbenzene	13.035	91	195472	18.968	ug/l	99
75) 2-Chlorotoluene	13.123	91	125642	19.534	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	144115	19.597	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	17241	19.349	ug/l	86
78) 4-Chlorotoluene	13.223	91	122902	18.842	ug/l	97
79) tert-butylbenzene	13.435	119	126761	19.713	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	146709	19.742	ug/l	99
81) sec-Butylbenzene	13.617	105	170997	19.466	ug/l	100
82) p-Isopropyltoluene	13.729	119	141648	19.165	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	73100	18.783	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	70037	18.001	ug/l	100
85) n-Butylbenzene	14.053	91	117648	18.038	ug/l	99
86) Hexachloroethane	14.335	117	27566	19.681	ug/l	87
87) 1,2-Dichlorobenzene	14.106	146	71787	19.007	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10754	20.351	ug/l	87
89) 1,2,4-Trichlorobenzene	15.835	180	34022	16.442	ug/l	98
90) Hexachlorobutadiene	15.500	225	15747	18.386	ug/l	97
91) Naphthalene	15.641	128	115060	17.009	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	34022	16.442	ug/l	98

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

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