

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078853.D
 Acq On : 11 Aug 2023 09:23
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John

Carlone

08/14/2023

Supervised By :Mahesh

Dadoda

08/15/2023

Quant Time: Aug 12 01:38:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	28898	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	163798	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	144198	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	76092	32.706	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.033%			
60) 4-Bromofluorobenzene	12.853	95	62237	30.748	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.500%			
63) Toluene-d8	10.571	98	217983	30.849	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.833%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	39203	19.681	ug/l	91
3) Chloromethane	2.371	50	51233	21.599	ug/l	99
4) Vinyl Chloride	2.524	62	48187	21.349	ug/l #	83
5) Bromomethane	2.971	94	31720	19.319	ug/l	89
6) Chloroethane	3.136	64	31857	19.869	ug/l	89
7) Trichlorofluoromethane	3.512	101	62054	20.031	ug/l	94
8) Diethyl Ether	3.971	74	23568	21.395	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.389	101	34258m	20.614	ug/l	
10) 1,1-Dichloroethene	4.353	96	32532	20.214	ug/l	84
11) Methyl Iodide	4.606	142	43294	20.166	ug/l	98
12) Methyl Acetate	5.036	43	68765	19.658	ug/l #	79
13) Acrolein	4.189	56	35102m	94.744	ug/l	
14) Acrylonitrile	5.730	53	88545	96.067	ug/l	99
15) Acetone	4.436	58	34530	145.399	ug/l	90
16) Carbon Disulfide	4.724	76	93782	20.130	ug/l	99
17) Allyl chloride	5.024	41	55829	19.846	ug/l	84
18) Methylene Chloride	5.283	84	45035	22.424	ug/l	91
19) trans-1,2-Dichloroethene	5.800	96	37842	20.479	ug/l #	83
20) Diisopropyl ether	6.688	45	133267	21.096	ug/l #	88
21) 1,1-Dichloroethane	6.577	63	76694	21.294	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	42794	20.894	ug/l	91
23) tert-Butyl Alcohol	5.536	59	28991	84.646	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	108127	20.073	ug/l	93
25) Chloroform	7.971	83	74964	20.965	ug/l	96
26) Cyclohexane	8.265	56	58296	20.550	ug/l #	91
29) 1,1-Dichloropropene	8.377	75	54134	20.343	ug/l	98
30) 2-Butanone	7.488	43	142347	109.135	ug/l	93
31) 2,2-Dichloropropane	7.494	77	62926	22.932	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	64961	20.729	ug/l	95
33) Carbon Tetrachloride	8.371	117	54622	20.195	ug/l	95
34) Benzene	8.618	78	167312	20.663	ug/l	97
35) Methacrylonitrile	7.783	41	28557	18.645	ug/l	78
36) 1,2-Dichloroethane	8.677	62	60253	21.287	ug/l	98
37) Trichloroethene	9.359	130	41342	21.218	ug/l	91
38) Methylcyclohexane	9.606	83	49111	19.493	ug/l	88
39) 1,2-Dichloropropane	9.624	63	44376	20.714	ug/l	98
40) Dibromomethane	9.712	93	30095	21.097	ug/l	94
41) Bromodichloromethane	9.894	83	58088	20.209	ug/l #	89
42) Vinyl Acetate	6.612	43	413030	100.630	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	56808m	20.981	ug/l	
44) Isopropyl Acetate	8.700	43	99986	20.565	ug/l #	86
45) 1,4-Dioxane	9.700	88	12166	372.966	ug/l #	72
46) Methyl methacrylate	9.688	41	42994	20.883	ug/l	83
47) n-amyl Acetate	12.500	43	66309	19.508	ug/l	94
48) t-1,3-Dichloropropene	10.841	75	59004	20.329	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	65430	20.271	ug/l	98
50) 1,1,2-Trichloroethane	11.023	97	38738	19.985	ug/l	94
51) Ethyl methacrylate	10.876	69	53085	19.538	ug/l	77
52) 1,3-Dichloropropane	11.171	76	70681	21.236	ug/l	98
53) Dibromochloromethane	11.365	129	42136	20.828	ug/l	96
54) 1,2-Dibromoethane	11.470	107	38558	20.361	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	103743	103.535	ug/l	95
56) Bromoform	12.588	173	26092	20.602	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	276478	99.752	ug/l #	92
59) 2-Hexanone	11.200	43	195817	101.668	ug/l	92
61) Tetrachloroethene	11.112	164	31743	19.241	ug/l	90
62) Toluene	10.635	91	176231	20.759	ug/l	97
64) Chlorobenzene	11.894	112	99017	19.923	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	39444	20.600	ug/l	98
66) Ethyl Benzene	11.970	91	174639	19.807	ug/l	98
67) m/p-Xylenes	12.076	106	136188	42.126	ug/l	98
68) o-Xylene	12.406	106	66349	20.619	ug/l	96
69) Styrene	12.418	104	104977	21.350	ug/l	97
70) Isopropylbenzene	12.700	105	160001	20.130	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	55611	20.647	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	45294m	19.265	ug/l	
73) Bromobenzene	12.988	156	35519	18.697	ug/l	85
74) n-propylbenzene	13.041	91	184695	20.999	ug/l	99
75) 2-Chlorotoluene	13.129	91	112742	20.577	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	131377	20.811	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	15048	20.391	ug/l	82
78) 4-Chlorotoluene	13.229	91	104395	20.538	ug/l	96
79) tert-butylbenzene	13.441	119	104801	20.233	ug/l	94
80) 1,2,4-Trimethylbenzene	13.488	105	125420	21.054	ug/l	99
81) sec-Butylbenzene	13.623	105	143303	20.666	ug/l	98
82) p-Isopropyltoluene	13.735	119	106762	19.656	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	59272	20.189	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	56503	20.154	ug/l	98
85) n-Butylbenzene	14.064	91	75980	19.009	ug/l	99
86) Hexachloroethane	14.335	117	24195	21.148	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	57691	19.974	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.729	75	7423	19.403	ug/l	87
89) 1,2,4-Trichlorobenzene	15.400	180	11448m	14.320	ug/l	
90) Hexachlorobutadiene	15.500	225	10522	17.877	ug/l	97
91) Naphthalene	15.641	128	30631	12.253	ug/l #	76
92) 1,2,3-Trichlorobenzene	15.847	180	15416	16.441	ug/l	93

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

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