

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051324\
 Data File : VN082112.D
 Acq On : 13 May 2024 21:32
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: May 14 11:36:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:29:16 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

05/14/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.812	128	23414	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	136463	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	119914	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	64922	33.118	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.400%#	
60) 4-Bromofluorobenzene	12.853	95	57459	28.792	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 95.967%	
63) Toluene-d8	10.571	98	179638	31.544	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 105.133%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	23007	17.311	ug/l	87
3) Chloromethane	2.365	50	33556	21.770	ug/l	99
4) Vinyl Chloride	2.518	62	33316	22.881	ug/l	99
5) Bromomethane	2.965	94	14913	19.628	ug/l	89
6) Chloroethane	3.124	64	21486	26.059	ug/l	92
7) Trichlorofluoromethane	3.500	101	40478	18.998	ug/l	86
8) Diethyl Ether	3.953	74	22054	21.382	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.371	101	26594m	18.187	ug/l	
10) 1,1-Dichloroethene	4.342	96	26830	18.752	ug/l	89
11) Methyl Iodide	4.589	142	25286m	19.348	ug/l	
12) Methyl Acetate	5.030	43	47453m	25.944	ug/l	
13) Acrolein	4.183	56	36242	95.146	ug/l	100
14) Acrylonitrile	5.724	53	94090	115.215	ug/l	97
15) Acetone	4.424	58	19697	106.948	ug/l	87
16) Carbon Disulfide	4.712	76	65564	16.561	ug/l #	94
17) Allyl chloride	5.024	41	52876	20.647	ug/l	89
18) Methylene Chloride	5.283	84	34470	21.200	ug/l #	76
19) trans-1,2-Dichloroethene	5.794	96	29228	19.626	ug/l	92
20) Diisopropyl ether	6.677	45	130267	23.467	ug/l	94
21) 1,1-Dichloroethane	6.571	63	67617	23.005	ug/l #	94
22) cis-1,2-Dichloroethene	7.488	96	38103	20.949	ug/l	92
23) tert-Butyl Alcohol	5.518	59	32670	97.102	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	108818	21.120	ug/l	96
25) Chloroform	7.971	83	61986	21.921	ug/l	99
26) Cyclohexane	8.259	56	47489	18.796	ug/l #	83
29) 1,1-Dichloropropene	8.371	75	40990	20.176	ug/l	84
30) 2-Butanone	7.483	43	123310	117.748	ug/l	93
31) 2,2-Dichloropropane	7.488	77	46294	22.236	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	47168	20.187	ug/l #	93
33) Carbon Tetrachloride	8.359	117	36267	19.126	ug/l	96
34) Benzene	8.606	78	142441	21.977	ug/l	94
35) Methacrylonitrile	7.782	41	30852	23.286	ug/l	93
36) 1,2-Dichloroethane	8.677	62	47746	21.945	ug/l	97
37) Trichloroethene	9.347	130	27995	17.635	ug/l	88
38) Methylcyclohexane	9.606	83	40122	16.348	ug/l	92
39) 1,2-Dichloropropane	9.624	63	39940	24.016	ug/l	94
40) Dibromomethane	9.706	93	23882	22.354	ug/l	67
41) Bromodichloromethane	9.888	83	49427	21.645	ug/l	94
42) Vinyl Acetate	6.606	43	498408	111.816	ug/l #	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	52466	22.900	ug/l	99	05/14/2024
44) Isopropyl Acetate	8.688	43	96852	23.895	ug/l #	86	
45) 1,4-Dioxane	9.694	88	13527	416.103	ug/l #	90	
46) Methyl methacrylate	9.682	41	43979	23.748	ug/l	88	
47) n-amyl Acetate	12.494	43	82917	22.685	ug/l #	88	
48) t-1,3-Dichloropropene	10.835	75	50065	20.218	ug/l	98	
49) cis-1,3-Dichloropropene	10.312	75	56660	21.641	ug/l #	76	
50) 1,1,2-Trichloroethane	11.018	97	33961	23.430	ug/l	92	
51) Ethyl methacrylate	10.876	69	57134	20.885	ug/l	70	
52) 1,3-Dichloropropane	11.165	76	60117	22.575	ug/l	99	
53) Dibromochloromethane	11.359	129	31852	20.198	ug/l	95	
54) 1,2-Dibromoethane	11.470	107	31284	21.642	ug/l	97	
55) 2-Chloroethyl vinyl ether	10.159	63	160697	117.473	ug/l #	94	
56) Bromoform	12.582	173	17978	18.731	ug/l #	91	
58) 4-Methyl-2-Pentanone	10.447	43	287940	123.672	ug/l #	84	
59) 2-Hexanone	11.200	43	210847m	122.135	ug/l		
61) Tetrachloroethene	11.106	164	19380	14.565	ug/l	94	
62) Toluene	10.635	91	139724	20.709	ug/l	99	
64) Chlorobenzene	11.894	112	85067	20.614	ug/l	98	
65) 1,1,1,2-Tetrachloroethane	11.959	131	27325	20.230	ug/l	89	
66) Ethyl Benzene	11.965	91	147642	19.963	ug/l	98	
67) m/p-Xylenes	12.070	106	106387	38.799	ug/l	95	
68) o-Xylene	12.400	106	53901	19.868	ug/l	98	
69) Styrene	12.412	104	94564	20.765	ug/l	97	
70) Isopropylbenzene	12.694	105	134919	19.582	ug/l	99	
71) 1,1,2,2-Tetrachloroethane	12.941	83	48949	24.687	ug/l	98	
72) 1,2,3-Trichloropropane	12.994	75	42551m	26.227	ug/l		
73) Bromobenzene	12.982	156	28480	19.310	ug/l	73	
74) n-propylbenzene	13.035	91	163915	20.150	ug/l	96	
75) 2-Chlorotoluene	13.129	91	102351	20.353	ug/l	98	
76) 1,3,5-Trimethylbenzene	13.176	105	108793	19.507	ug/l	96	
77) t-1,4-Dichloro-2-butene	12.741	75	16197	19.621	ug/l	89	
78) 4-Chlorotoluene	13.223	91	98197	19.932	ug/l	100	
79) tert-butylbenzene	13.441	119	92866	19.340	ug/l	98	
80) 1,2,4-Trimethylbenzene	13.482	105	111863	19.969	ug/l	96	
81) sec-Butylbenzene	13.617	105	127858	18.995	ug/l	97	
82) p-Isopropyltoluene	13.729	119	98327	18.474	ug/l	95	
83) 1,3-Dichlorobenzene	13.735	146	50534	19.028	ug/l	99	
84) 1,4-Dichlorobenzene	13.812	146	49787	18.651	ug/l	97	
85) n-Butylbenzene	14.059	91	94858	19.511	ug/l	98	
86) Hexachloroethane	14.335	117	18890	17.800	ug/l	77	
87) 1,2-Dichlorobenzene	14.106	146	49247	18.618	ug/l	93	
88) 1,2-Dibromo-3-Chloropr...	14.717	75	8692	19.536	ug/l	89	
89) 1,2,4-Trichlorobenzene	15.847	180	26692	18.327	ug/l	95	
90) Hexachlorobutadiene	15.506	225	8447	15.660	ug/l	96	
91) Naphthalene	15.641	128	101852	18.396	ug/l	99	
92) 1,2,3-Trichlorobenzene	15.847	180	26692	18.327	ug/l	95	

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

