

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074869.D
 Acq On : 12 Oct 2022 11:02
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 07:14:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:11:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.830	128	76303	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	424945	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	384952	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	205980	28.834	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.100%		
60) 4-Bromofluorobenzene	12.853	95	194461	28.486	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.967%		
63) Toluene-d8	10.571	98	687054	30.924	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	86775	20.479	ug/l	99
3) Chloromethane	2.383	50	144701	21.116	ug/l	98
4) Vinyl Chloride	2.530	62	219850	21.787	ug/l	100
5) Bromomethane	2.948	94	166162	20.768	ug/l	91
6) Chloroethane	3.124	64	173419	21.567	ug/l	91
7) Trichlorofluoromethane	3.506	101	157732	20.967	ug/l	99
8) Diethyl Ether	3.989	74	75332m	21.467	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.383	101	99513m	21.029	ug/l	
10) 1,1-Dichloroethene	4.359	96	92875m	19.884	ug/l	
11) Methyl Iodide	4.612	142	119615	20.600	ug/l	98
12) Methyl Acetate	5.048	43	227578	20.276	ug/l	93
13) Acrolein	4.206	56	157174	99.110	ug/l	97
14) Acrylonitrile	5.742	53	429675	102.643	ug/l	99
15) Acetone	4.453	58	117830	102.557	ug/l	90
16) Carbon Disulfide	4.736	76	244121	20.419	ug/l	97
17) Allyl chloride	5.042	41	206638m	21.795	ug/l	
18) Methylene Chloride	5.300	84	126205m	20.921	ug/l	
19) trans-1,2-Dichloroethene	5.812	96	101229	19.803	ug/l	82
20) Diisopropyl ether	6.694	45	431365	19.931	ug/l	93
21) 1,1-Dichloroethane	6.583	63	226877	20.611	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	128398	20.059	ug/l #	91
23) tert-Butyl Alcohol	5.559	59	177982	101.426	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	388710	19.987	ug/l #	82
25) Chloroform	7.977	83	211435	19.337	ug/l	95
26) Cyclohexane	8.265	56	195704	20.234	ug/l #	96
29) 1,1-Dichloropropene	8.383	75	151835	19.803	ug/l	98
30) 2-Butanone	7.506	43	631983	103.305	ug/l	100
31) 2,2-Dichloropropane	7.506	77	186852	19.931	ug/l	96
32) 1,1,1-Trichloroethane	8.183	97	186664	20.301	ug/l	98
33) Carbon Tetrachloride	8.371	117	157631	20.842	ug/l #	90
34) Benzene	8.612	78	522924	20.633	ug/l #	93
35) Methacrylonitrile	7.794	41	131082	20.848	ug/l	95
36) 1,2-Dichloroethane	8.683	62	170827	20.240	ug/l	99
37) Trichloroethene	9.359	130	106191	20.147	ug/l	99
38) Methylcyclohexane	9.606	83	181123	19.445	ug/l	95
39) 1,2-Dichloropropane	9.630	63	138229	21.039	ug/l	93
40) Dibromomethane	9.712	93	87800	20.166	ug/l	98
41) Bromodichloromethane	9.888	83	172033	20.289	ug/l	96
42) Vinyl Acetate	6.624	43	1924827m	107.725	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.583	43	236416	19.699	ug/l	99
44) Isopropyl Acetate	8.694	43	372369	20.245	ug/l	99
45) 1,4-Dioxane	9.700	88	69926	414.592	ug/l	99
46) Methyl methacrylate	9.688	41	161826	20.314	ug/l	95
47) n-amyl Acetate	12.500	43	312024	19.388	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	190509	19.518	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	199195	19.309	ug/l #	95
50) 1,1,2-Trichloroethane	11.018	97	130344	20.344	ug/l	96
51) Ethyl methacrylate	10.877	69	208236	19.113	ug/l	86
52) 1,3-Dichloropropane	11.165	76	232687	21.041	ug/l	99
53) Dibromochloromethane	11.365	129	125413	19.980	ug/l	91
54) 1,2-Dibromoethane	11.471	107	118940	19.322	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	402296	94.401	ug/l	98
56) Bromoform	12.576	173	80739	17.849	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1261196	105.345	ug/l	98
59) 2-Hexanone	11.200	43	976799	106.016	ug/l	97
61) Tetrachloroethene	11.106	164	85165	20.752	ug/l	93
62) Toluene	10.635	91	560896	21.090	ug/l	98
64) Chlorobenzene	11.894	112	318531	21.071	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	117285	20.599	ug/l	98
66) Ethyl Benzene	11.965	91	591029	20.437	ug/l	97
67) m/p-Xylenes	12.076	106	443772	40.846	ug/l	95
68) o-Xylene	12.400	106	223459	20.234	ug/l	100
69) Styrene	12.412	104	352357	19.494	ug/l	97
70) Isopropylbenzene	12.700	105	571045	20.049	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	219655	20.616	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	189468m	21.866	ug/l	
73) Bromobenzene	12.982	156	121721	20.394	ug/l	94
74) n-propylbenzene	13.041	91	654137	19.698	ug/l	97
75) 2-Chlorotoluene	13.129	91	389092	20.028	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	453102	19.576	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	71297	19.171	ug/l	96
78) 4-Chlorotoluene	13.223	91	356469	18.640	ug/l	99
79) tert-butylbenzene	13.441	119	401054	19.479	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	450065	19.325	ug/l	99
81) sec-Butylbenzene	13.618	105	579366	19.580	ug/l	97
82) p-Isopropyltoluene	13.729	119	449840	19.133	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	224249	19.255	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	216305	19.336	ug/l	96
85) n-Butylbenzene	14.059	91	388314	18.711	ug/l	95
86) Hexachloroethane	14.329	117	93438	20.293	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	230240	19.911	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	42176	19.613	ug/l	94
89) 1,2,4-Trichlorobenzene	15.394	180	98338	18.620	ug/l	95
90) Hexachlorobutadiene	15.500	225	49189	19.103	ug/l	97
91) Naphthalene	15.641	128	382745	18.265	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	107072	19.381	ug/l	98

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

