

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078936.D
 Acq On : 17 Aug 2023 19:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/18/2023
 Supervised By : Semsettin Yesilyurt 08/18/2023

Quant Time: Aug 18 05:35:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	39320	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	217198	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	194418	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	97056	30.468	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.567%			
60) 4-Bromofluorobenzene	12.853	95	85920	30.296	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.000%			
63) Toluene-d8	10.571	98	276014	30.401	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	50090	20.188	ug/l	99
3) Chloromethane	2.365	50	58698	19.740	ug/l	95
4) Vinyl Chloride	2.512	62	59612	20.255	ug/l	96
5) Bromomethane	2.959	94	34063	18.751	ug/l	99
6) Chloroethane	3.124	64	41536	21.718	ug/l	96
7) Trichlorofluoromethane	3.501	101	80801	20.385	ug/l	99
8) Diethyl Ether	3.965	74	29205	19.590	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	41656	20.122	ug/l	90
10) 1,1-Dichloroethene	4.342	96	43259	20.771	ug/l	98
11) Methyl Iodide	4.595	142	46459	18.485	ug/l	91
12) Methyl Acetate	5.036	43	98287	20.133	ug/l	94
13) Acrolein	4.189	56	28321	83.233	ug/l	97
14) Acrylonitrile	5.724	53	129613	101.001	ug/l	98
15) Acetone	4.436	58	33047	83.949	ug/l	92
16) Carbon Disulfide	4.718	76	115358	19.277	ug/l	98
17) Allyl chloride	5.024	41	71647	18.769	ug/l	90
18) Methylene Chloride	5.295	84	52966m	21.273	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	45398	19.367	ug/l	97
20) Diisopropyl ether	6.677	45	164221	19.776	ug/l #	88
21) 1,1-Dichloroethane	6.577	63	92100	19.988	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	54005	20.130	ug/l	97
23) tert-Butyl Alcohol	5.536	59	46343m	96.814	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	146496	19.815	ug/l	99
25) Chloroform	7.971	83	92375	19.901	ug/l	98
26) Cyclohexane	8.265	56	67038	19.889	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	65895	19.944	ug/l	97
30) 2-Butanone	7.489	43	185759	96.038	ug/l	99
31) 2,2-Dichloropropane	7.494	77	60947	16.691	ug/l #	87
32) 1,1,1-Trichloroethane	8.177	97	79178	20.072	ug/l	96
33) Carbon Tetrachloride	8.365	117	71503	20.926	ug/l #	95
34) Benzene	8.612	78	203483	20.551	ug/l	98
35) Methacrylonitrile	7.783	41	41525	20.143	ug/l	95
36) 1,2-Dichloroethane	8.677	62	74817	20.178	ug/l	98
37) Trichloroethene	9.353	130	48811	19.804	ug/l	87
38) Methylcyclohexane	9.606	83	56812	19.531	ug/l	98
39) 1,2-Dichloropropane	9.630	63	53010	19.876	ug/l	93
40) Dibromomethane	9.718	93	37907	21.204	ug/l	95
41) Bromodichloromethane	9.894	83	73272	20.380	ug/l	99
42) Vinyl Acetate	6.612	43	554628	101.703	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	71525	19.061	ug/l	96
44) Isopropyl Acetate	8.694	43	126143	19.078	ug/l	98
45) 1,4-Dioxane	9.700	88	18907	379.996	ug/l	96
46) Methyl methacrylate	9.683	41	58052	19.928	ug/l	91
47) n-amyl Acetate	12.500	43	97701	19.256	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	75670	19.762	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	81648	19.886	ug/l	93
50) 1,1,2-Trichloroethane	11.024	97	51497	21.316	ug/l	95
51) Ethyl methacrylate	10.882	69	70956	18.976	ug/l	92
52) 1,3-Dichloropropane	11.171	76	87549	20.232	ug/l	99
53) Dibromochloromethane	11.365	129	54977	20.792	ug/l	94
54) 1,2-Dibromoethane	11.471	107	49823	20.087	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	166321	96.231	ug/l	99
56) Bromoform	12.582	173	36325	19.471	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	395437	102.516	ug/l	99
59) 2-Hexanone	11.200	43	283369	100.265	ug/l	99
61) Tetrachloroethene	11.112	164	38461	20.431	ug/l	90
62) Toluene	10.635	91	221151	20.835	ug/l	99
64) Chlorobenzene	11.894	112	126418	19.809	ug/l #	89
65) 1,1,1,2-Tetrachloroethane	11.965	131	49476	20.275	ug/l	95
66) Ethyl Benzene	11.971	91	219341	19.756	ug/l	100
67) m/p-Xylenes	12.076	106	167454	40.451	ug/l	99
68) o-Xylene	12.406	106	82913	20.313	ug/l	97
69) Styrene	12.418	104	135307	20.401	ug/l	99
70) Isopropylbenzene	12.700	105	200699	20.293	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	77389	20.874	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	62276m	20.475	ug/l	
73) Bromobenzene	12.982	156	49287	19.575	ug/l	96
74) n-propylbenzene	13.041	91	226239	20.185	ug/l	100
75) 2-Chlorotoluene	13.129	91	142450	20.033	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	155573	19.844	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	21215	18.770	ug/l	82
78) 4-Chlorotoluene	13.229	91	137154	20.134	ug/l	99
79) tert-butylbenzene	13.441	119	132733	20.035	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	154597	20.054	ug/l	99
81) sec-Butylbenzene	13.623	105	175318	20.052	ug/l	99
82) p-Isopropyltoluene	13.735	119	140670	19.706	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	83704	20.600	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	76957	19.291	ug/l	98
85) n-Butylbenzene	14.059	91	105110	18.722	ug/l	99
86) Hexachloroethane	14.335	117	30156	20.646	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	82924	19.925	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13297	19.983	ug/l	96
89) 1,2,4-Trichlorobenzene	15.847	180	31408	19.109	ug/l	95
90) Hexachlorobutadiene	15.506	225	15459	18.066	ug/l	93
91) Naphthalene	15.647	128	77435	16.335	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	31408	19.109	ug/l	95

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

