

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079995.D
 Acq On : 08 Nov 2023 16:59
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 09 04:25:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/09/2023
 Supervised By :Semsettin Yesilyurt 11/09/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	76102	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	408899	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	376129	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	194413	30.433	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.433%			
60) 4-Bromofluorobenzene	12.853	95	181809	30.227	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.767%			
63) Toluene-d8	10.571	98	544249	30.538	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	90910	18.321	ug/l	97
3) Chloromethane	2.359	50	119303	19.086	ug/l	96
4) Vinyl Chloride	2.512	62	97566	18.678	ug/l	97
5) Bromomethane	2.959	94	45344	15.854	ug/l	97
6) Chloroethane	3.118	64	49439	16.295	ug/l #	84
7) Trichlorofluoromethane	3.501	101	135760	17.317	ug/l	92
8) Diethyl Ether	3.959	74	49663	17.647	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	81764	18.461	ug/l	98
10) 1,1-Dichloroethene	4.336	96	76045	19.408	ug/l	95
11) Methyl Iodide	4.589	142	90955	17.550	ug/l	95
12) Methyl Acetate	5.030	43	181295	17.847	ug/l	99
13) Acrolein	4.177	56	76381	88.995	ug/l	97
14) Acrylonitrile	5.724	53	214368	88.847	ug/l	99
15) Acetone	4.430	58	66732	81.910	ug/l	72
16) Carbon Disulfide	4.712	76	227770	17.024	ug/l	99
17) Allyl chloride	5.024	41	118206	17.265	ug/l	94
18) Methylene Chloride	5.277	84	98023	18.655	ug/l	97
19) trans-1,2-Dichloroethene	5.795	96	87970	18.113	ug/l	94
20) Diisopropyl ether	6.677	45	287899	17.994	ug/l	98
21) 1,1-Dichloroethane	6.571	63	174221	18.242	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	99898	17.725	ug/l	98
23) tert-Butyl Alcohol	5.530	59	60650	93.127	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	253542	17.574	ug/l	97
25) Chloroform	7.965	83	179617	18.220	ug/l	94
26) Cyclohexane	8.259	56	131219	17.465	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	128019	18.242	ug/l	99
30) 2-Butanone	7.489	43	297387	88.732	ug/l	100
31) 2,2-Dichloropropane	7.494	77	140325	18.500	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	151947	18.966	ug/l	98
33) Carbon Tetrachloride	8.365	117	132438	18.808	ug/l	97
34) Benzene	8.606	78	399886	19.182	ug/l	99
35) Methacrylonitrile	7.777	41	61608	17.533	ug/l	96
36) 1,2-Dichloroethane	8.671	62	145518	19.287	ug/l	100
37) Trichloroethene	9.353	130	94456	18.840	ug/l	96
38) Methylcyclohexane	9.606	83	112759	17.112	ug/l	97
39) 1,2-Dichloropropane	9.624	63	104097	18.865	ug/l	96
40) Dibromomethane	9.712	93	68176	19.115	ug/l	98
41) Bromodichloromethane	9.888	83	138455	18.743	ug/l	99
42) Vinyl Acetate	6.606	43	760772	91.386	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079995.D
 Acq On : 08 Nov 2023 16:59
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 09 04:25:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/09/2023
 Supervised By :Semsettin Yesilyurt 11/09/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	123549	19.624	ug/l	97
44) Isopropyl Acetate	8.688	43	188430	18.368	ug/l	94
45) 1,4-Dioxane	9.694	88	32007	404.850	ug/l	96
46) Methyl methacrylate	9.682	41	91552	18.565	ug/l	93
47) n-amyl Acetate	12.500	43	148161	17.980	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	136364	18.075	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	153578	18.415	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	93954	19.311	ug/l	95
51) Ethyl methacrylate	10.877	69	125512	17.948	ug/l	95
52) 1,3-Dichloropropane	11.165	76	166157	19.102	ug/l	99
53) Dibromochloromethane	11.365	129	95191	18.289	ug/l	97
54) 1,2-Dibromoethane	11.471	107	92203	18.873	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	337977	105.081	ug/l	99
56) Bromoform	12.582	173	64445	18.895	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	594973	94.683	ug/l	98
59) 2-Hexanone	11.200	43	436678	91.225	ug/l	98
61) Tetrachloroethene	11.106	164	87074	19.746	ug/l	98
62) Toluene	10.635	91	415144	19.083	ug/l	99
64) Chlorobenzene	11.894	112	240584	18.532	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	90754	19.057	ug/l	96
66) Ethyl Benzene	11.965	91	421888	18.455	ug/l	98
67) m/p-Xylenes	12.076	106	324750	38.158	ug/l	95
68) o-Xylene	12.400	106	151386	18.558	ug/l	98
69) Styrene	12.412	104	253888	18.801	ug/l	99
70) Isopropylbenzene	12.700	105	380834	18.716	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	127825	18.444	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	124145m	19.279	ug/l	
73) Bromobenzene	12.982	156	94317	18.854	ug/l	96
74) n-propylbenzene	13.041	91	456685	18.761	ug/l	100
75) 2-Chlorotoluene	13.129	91	292741	18.920	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	318411	18.919	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	38614	18.313	ug/l	94
78) 4-Chlorotoluene	13.223	91	290671	18.915	ug/l	98
79) tert-butylbenzene	13.441	119	244168	18.525	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	315065	19.091	ug/l	98
81) sec-Butylbenzene	13.618	105	342701	18.419	ug/l	99
82) p-Isopropyltoluene	13.735	119	278768	18.449	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	172238	18.895	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	164565	18.393	ug/l	98
85) n-Butylbenzene	14.059	91	218389	17.281	ug/l	97
86) Hexachloroethane	14.335	117	53777	18.303	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	167376	19.220	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	23178	18.288	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	68184	16.901	ug/l	97
90) Hexachlorobutadiene	15.506	225	34582	17.393	ug/l	97
91) Naphthalene	15.647	128	199458	15.406	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	68184	16.901	ug/l	97

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

