

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079577.D
 Acq On : 17 Oct 2023 12:49
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN101723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 18 02:21:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	22067	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	171731	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	205145	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	94987	30.275	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.933%			
60) 4-Bromofluorobenzene	12.853	95	115706	30.842	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.800%			
63) Toluene-d8	10.571	98	264530	30.092	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.300%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.130	85	63381	19.806	ug/l	94
3) Chloromethane	2.365	50	80833	19.489	ug/l	99
4) Vinyl Chloride	2.518	62	89557	20.007	ug/l	98
5) Bromomethane	2.959	94	53489	19.272	ug/l	89
6) Chloroethane	3.118	64	62403	19.806	ug/l	99
7) Trichlorofluoromethane	3.500	101	108005	19.773	ug/l	95
8) Diethyl Ether	3.965	74	39195	19.799	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	62798	20.095	ug/l	84
10) 1,1-Dichloroethene	4.347	96	58364	19.629	ug/l	92
11) Methyl Iodide	4.595	142	64006	19.443	ug/l	97
12) Methyl Acetate	5.030	43	140092	19.544	ug/l	96
13) Acrolein	4.183	56	55678	93.968	ug/l	100
14) Acrylonitrile	5.724	53	170469	99.310	ug/l	97
15) Acetone	4.430	58	54617	100.442	ug/l #	65
16) Carbon Disulfide	4.712	76	176431	19.460	ug/l	97
17) Allyl chloride	5.024	41	92670	20.215	ug/l	96
18) Methylene Chloride	5.289	84	73130m	19.982	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	66416	19.966	ug/l	91
20) Diisopropyl ether	6.677	45	222030	20.426	ug/l	97
21) 1,1-Dichloroethane	6.571	63	131743	19.945	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	77188	20.147	ug/l	96
23) tert-Butyl Alcohol	5.524	59	51638	89.962	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	198534m	19.900	ug/l	
25) Chloroform	7.971	83	135373	20.283	ug/l	96
26) Cyclohexane	8.259	56	102416	20.512	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	97808	19.489	ug/l	100
30) 2-Butanone	7.488	43	234411	93.182	ug/l	99
31) 2,2-Dichloropropane	7.494	77	107334	18.969	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	113758	19.071	ug/l	98
33) Carbon Tetrachloride	8.365	117	96949	19.111	ug/l	94
34) Benzene	8.612	78	290325	19.041	ug/l	99
35) Methacrylonitrile	7.783	41	49474	18.696	ug/l	95
36) 1,2-Dichloroethane	8.671	62	103586	19.027	ug/l	100
37) Trichloroethene	9.353	130	68454	19.206	ug/l	97
38) Methylcyclohexane	9.606	83	91696	18.977	ug/l	99
39) 1,2-Dichloropropane	9.629	63	76722	19.067	ug/l	98
40) Dibromomethane	9.712	93	51693	19.575	ug/l	97
41) Bromodichloromethane	9.894	83	104948	19.177	ug/l	98
42) Vinyl Acetate	6.606	43	617525	96.769	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079577.D
 Acq On : 17 Oct 2023 12:49
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN101723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 18 02:21:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	96372	20.373	ug/l	95
44) Isopropyl Acetate	8.694	43	153225	18.222	ug/l	99
45) 1,4-Dioxane	9.706	88	24451	371.469	ug/l	96
46) Methyl methacrylate	9.688	41	71869	19.265	ug/l	98
47) n-amyl Acetate	12.500	43	113565	18.713	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	105490	19.068	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	115656	19.118	ug/l	95
50) 1,1,2-Trichloroethane	11.024	97	71014	19.385	ug/l	95
51) Ethyl methacrylate	10.876	69	96920	19.176	ug/l	96
52) 1,3-Dichloropropane	11.171	76	121602	18.737	ug/l	99
53) Dibromochloromethane	11.365	129	71936	19.213	ug/l	97
54) 1,2-Dibromoethane	11.476	107	69001	19.092	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	166143	86.156	ug/l	98
56) Bromoform	12.582	173	45856	18.514	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	475925	99.463	ug/l	100
59) 2-Hexanone	11.200	43	343886	97.963	ug/l	99
61) Tetrachloroethene	11.106	164	56425	20.033	ug/l	98
62) Toluene	10.635	91	310928	19.832	ug/l	98
64) Chlorobenzene	11.894	112	179876	19.781	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	67521	19.493	ug/l	98
66) Ethyl Benzene	11.965	91	322747	19.979	ug/l	99
67) m/p-Xylenes	12.076	106	243822	40.808	ug/l	96
68) o-Xylene	12.406	106	118459	20.739	ug/l	97
69) Styrene	12.412	104	188062	20.740	ug/l	98
70) Isopropylbenzene	12.700	105	294841	20.114	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	100782	19.336	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	89840m	18.981	ug/l	
73) Bromobenzene	12.982	156	68344	19.848	ug/l	99
74) n-propylbenzene	13.041	91	347747	20.377	ug/l	99
75) 2-Chlorotoluene	13.129	91	217064	20.460	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	247647	20.667	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	28422	19.675	ug/l	99
78) 4-Chlorotoluene	13.223	91	202742	20.226	ug/l	99
79) tert-butylbenzene	13.441	119	193645	20.099	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	237623	20.465	ug/l	100
81) sec-Butylbenzene	13.617	105	272811	20.170	ug/l	99
82) p-Isopropyltoluene	13.735	119	219228	20.434	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	117402	20.734	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	109240	20.124	ug/l	99
85) n-Butylbenzene	14.059	91	167711	20.007	ug/l	98
86) Hexachloroethane	14.335	117	44101	19.014	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	112964	20.072	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14954	18.829	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	35231	17.760	ug/l	98
90) Hexachlorobutadiene	15.506	225	26188	18.637	ug/l	97
91) Naphthalene	15.647	128	77341	15.114	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	35231	17.760	ug/l	98

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

