

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077275.D
 Acq On : 07 Apr 2023 13:13
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.1mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN040723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 07 13:30:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	53642	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	420066	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	465213	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	142351	31.290	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.300%			
60) 4-Bromofluorobenzene	12.854	95	239953	29.829	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.433%			
63) Toluene-d8	10.566	98	491199	30.035	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	96145	18.853	ug/l	98
3) Chloromethane	2.372	50	131519	19.412	ug/l	99
4) Vinyl Chloride	2.525	62	191866	19.771	ug/l	99
5) Bromomethane	2.948	94	139417	19.066	ug/l	87
6) Chloroethane	3.119	64	134844	20.731	ug/l	96
7) Trichlorofluoromethane	3.501	101	173116	19.159	ug/l	94
8) Diethyl Ether	3.972	74	76969	19.985	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	113308	20.054	ug/l	74
10) 1,1-Dichloroethene	4.348	96	107358	18.993	ug/l	91
11) Methyl Iodide	4.601	142	119394	18.697	ug/l	98
12) Methyl Acetate	5.031	43	158181	18.784	ug/l	91
13) Acrolein	4.184	56	101591	97.188	ug/l	96
14) Acrylonitrile	5.731	53	269483	93.617	ug/l	96
15) Acetone	4.437	58	95694	91.634	ug/l	97
16) Carbon Disulfide	4.719	76	289566	19.409	ug/l	99
17) Allyl chloride	5.031	41	137332	18.874	ug/l	88
18) Methylene Chloride	5.289	84	127153	19.371	ug/l	96
19) trans-1,2-Dichloroethene	5.795	96	118155	19.224	ug/l	94
20) Diisopropyl ether	6.678	45	327893	18.907	ug/l	99
21) 1,1-Dichloroethane	6.578	63	216259	19.674	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	147038	19.625	ug/l	99
23) tert-Butyl Alcohol	5.525	59	119834	93.623	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	392323	19.279	ug/l #	81
25) Chloroform	7.972	83	231686	19.449	ug/l	90
26) Cyclohexane	8.260	56	185590	19.431	ug/l #	99
29) 1,1-Dichloropropene	8.372	75	175964	19.337	ug/l	98
30) 2-Butanone	7.483	43	386815	89.890	ug/l	100
31) 2,2-Dichloropropane	7.495	77	210346	18.830	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	206660	18.454	ug/l	99
33) Carbon Tetrachloride	8.366	117	176814	18.499	ug/l	96
34) Benzene	8.613	78	539230	19.151	ug/l	99
35) Methacrylonitrile	7.789	41	79755	19.675	ug/l	95
36) 1,2-Dichloroethane	8.672	62	171644	19.444	ug/l	100
37) Trichloroethene	9.354	130	130774	18.989	ug/l	96
38) Methylcyclohexane	9.607	83	232756	18.859	ug/l	99
39) 1,2-Dichloropropane	9.624	63	132817	19.002	ug/l	98
40) Dibromomethane	9.713	93	94105	18.686	ug/l	99
41) Bromodichloromethane	9.889	83	189494	18.870	ug/l	97
42) Vinyl Acetate	6.613	43	1139805	91.520	ug/l #	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077275.D
 Acq On : 07 Apr 2023 13:13
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.1mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN040723

Quant Time: Apr 07 13:30:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2023
 Supervised By :Semsettin Yesilyurt 04/10/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	143944	18.080	ug/l	98
44) Isopropyl Acetate	8.689	43	267228	18.747	ug/l #	100
45) 1,4-Dioxane	9.695	88	56153	373.518	ug/l	98
46) Methyl methacrylate	9.683	41	114119	18.594	ug/l	98
47) n-amyl Acetate	12.495	43	238766	19.167	ug/l	100
48) t-1,3-Dichloropropene	10.836	75	206970	18.416	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	225433	18.855	ug/l	99
50) 1,1,2-Trichloroethane	11.019	97	137093	18.741	ug/l	97
51) Ethyl methacrylate	10.877	69	215281	19.164	ug/l	97
52) 1,3-Dichloropropane	11.166	76	225366	18.459	ug/l	99
53) Dibromochloromethane	11.360	129	142703	18.509	ug/l	96
54) 1,2-Dibromoethane	11.471	107	138436	18.852	ug/l	100
55) 2-Chloroethyl vinyl ether	10.160	63	294104	84.798	ug/l	99
56) Bromoform	12.583	173	93256	18.007	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	819425	94.074	ug/l	99
59) 2-Hexanone	11.195	43	618208	91.820	ug/l	99
61) Tetrachloroethene	11.107	164	103634	18.729	ug/l	94
62) Toluene	10.636	91	614861	18.943	ug/l	98
64) Chlorobenzene	11.895	112	370830	18.805	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	135787	18.725	ug/l	98
66) Ethyl Benzene	11.966	91	675328	18.780	ug/l	99
67) m/p-Xylenes	12.071	106	523562	37.144	ug/l	98
68) o-Xylene	12.401	106	268582	19.047	ug/l	99
69) Styrene	12.413	104	425159	18.819	ug/l	100
70) Isopropylbenzene	12.701	105	684456	19.126	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	205912	18.789	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	154268m	20.708	ug/l	
73) Bromobenzene	12.983	156	142590	19.611	ug/l	93
74) n-propylbenzene	13.036	91	763745	19.289	ug/l	100
75) 2-Chlorotoluene	13.124	91	451417	19.031	ug/l	97
76) 1,3,5-Trimethylbenzene	13.177	105	556894	19.119	ug/l	98
77) t-1,4-Dichloro-2-butene	12.742	75	69345	18.275	ug/l	94
78) 4-Chlorotoluene	13.224	91	435461	19.429	ug/l	98
79) tert-butylbenzene	13.442	119	484197	19.101	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	542148	19.094	ug/l	99
81) sec-Butylbenzene	13.618	105	689800	19.053	ug/l	99
82) p-Isopropyltoluene	13.730	119	550867	18.992	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	258096	18.722	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	251749	18.823	ug/l	100
85) n-Butylbenzene	14.059	91	452054	18.861	ug/l	100
86) Hexachloroethane	14.336	117	110857	17.967	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	256016	18.953	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	36725	17.488	ug/l	98
89) 1,2,4-Trichlorobenzene	15.371	180	91904	17.297	ug/l	100
90) Hexachlorobutadiene	15.465	225	51308	18.829	ug/l	97
91) Naphthalene	15.589	128	340185	16.759	ug/l	99
92) 1,2,3-Trichlorobenzene	15.759	180	86211	16.629	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
Data File : VN077275.D
Acq On : 07 Apr 2023 13:13
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.1mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN040723

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/10/2023
Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 07 13:30:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 07 13:04:49 2023
Response via : Initial Calibration

