

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076683.D
 Acq On : 15 Feb 2023 13:30
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021523

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 16 01:12:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	36099	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	267509	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	300879	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	106369	32.217	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.400%			
60) 4-Bromofluorobenzene	12.854	95	159007	29.878	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.600%			
63) Toluene-d8	10.572	98	313491	29.746	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	82380	21.565	ug/l	100
3) Chloromethane	2.372	50	98730	21.047	ug/l	99
4) Vinyl Chloride	2.525	62	106335	21.239	ug/l	97
5) Bromomethane	2.961	94	76552	22.146	ug/l	100
6) Chloroethane	3.131	64	66628	20.521	ug/l	97
7) Trichlorofluoromethane	3.513	101	130870	20.969	ug/l	95
8) Diethyl Ether	3.972	74	55253	22.312	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.384	101	76400	20.142	ug/l	97
10) 1,1-Dichloroethene	4.355	96	75058	21.069	ug/l	97
11) Methyl Iodide	4.602	142	87581	19.701	ug/l	89
12) Methyl Acetate	5.037	43	154924	21.212	ug/l	95
13) Acrolein	4.190	56	75391	86.913	ug/l	97
14) Acrylonitrile	5.731	53	234693	104.708	ug/l	98
15) Acetone	4.437	58	78197	107.754	ug/l	94
16) Carbon Disulfide	4.719	76	201431	20.158	ug/l	99
17) Allyl chloride	5.031	41	128196	20.103	ug/l	96
18) Methylene Chloride	5.290	84	92153	20.493	ug/l	93
19) trans-1,2-Dichloroethene	5.796	96	79564	19.914	ug/l	94
20) Diisopropyl ether	6.684	45	316280	20.975	ug/l	96
21) 1,1-Dichloroethane	6.578	63	169348	21.470	ug/l	98
22) cis-1,2-Dichloroethene	7.496	96	97840	21.344	ug/l	98
23) tert-Butyl Alcohol	5.531	59	71167	109.863	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	259052	21.016	ug/l	100
25) Chloroform	7.978	83	162420	20.999	ug/l	92
26) Cyclohexane	8.266	56	151211	21.450	ug/l #	94
29) 1,1-Dichloropropene	8.378	75	125234	20.523	ug/l	99
30) 2-Butanone	7.490	43	351617	98.787	ug/l	100
31) 2,2-Dichloropropane	7.501	77	129661	20.332	ug/l #	88
32) 1,1,1-Trichloroethane	8.178	97	141031	19.909	ug/l	96
33) Carbon Tetrachloride	8.372	117	121412	19.781	ug/l	92
34) Benzene	8.613	78	384726	19.749	ug/l	99
35) Methacrylonitrile	7.790	41	73955	19.048	ug/l	94
36) 1,2-Dichloroethane	8.678	62	131270	20.132	ug/l	99
37) Trichloroethene	9.354	130	86945	19.191	ug/l	97
38) Methylcyclohexane	9.607	83	155883	20.300	ug/l	99
39) 1,2-Dichloropropane	9.631	63	101019	19.953	ug/l	88
40) Dibromomethane	9.713	93	62482	19.351	ug/l	95
41) Bromodichloromethane	9.895	83	125680	19.405	ug/l #	99
42) Vinyl Acetate	6.613	43	1049107	101.705	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076683.D
 Acq On : 15 Feb 2023 13:30
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021523

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 16 01:12:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	139224	20.531	ug/l	100
44) Isopropyl Acetate	8.695	43	226076	20.253	ug/l	99
45) 1,4-Dioxane	9.695	88	37200	393.749	ug/l	99
46) Methyl methacrylate	9.684	41	107190	20.918	ug/l	94
47) n-amyl Acetate	12.495	43	196311	19.915	ug/l	99
48) t-1,3-Dichloropropene	10.837	75	131138	19.963	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	144669	19.350	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	91139	19.417	ug/l	92
51) Ethyl methacrylate	10.878	69	134734	19.771	ug/l	96
52) 1,3-Dichloropropane	11.166	76	157238	19.486	ug/l	99
53) Dibromochloromethane	11.360	129	95057	19.716	ug/l	96
54) 1,2-Dibromoethane	11.472	107	91118	19.942	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	254655	84.293	ug/l	99
56) Bromoform	12.583	173	62916	18.948	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	710849	99.335	ug/l	99
59) 2-Hexanone	11.195	43	530230	99.615	ug/l	99
61) Tetrachloroethene	11.107	164	74658	19.649	ug/l	94
62) Toluene	10.631	91	415690	19.769	ug/l	99
64) Chlorobenzene	11.895	112	249713	19.933	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	87550	19.064	ug/l	95
66) Ethyl Benzene	11.966	91	450896	20.171	ug/l	99
67) m/p-Xylenes	12.078	106	351477	40.208	ug/l	99
68) o-Xylene	12.401	106	171992	19.966	ug/l	96
69) Styrene	12.413	104	279039	20.177	ug/l	99
70) Isopropylbenzene	12.701	105	444206	20.212	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	137745	19.158	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	118565m	18.720	ug/l	
73) Bromobenzene	12.983	156	98148	19.247	ug/l	93
74) n-propylbenzene	13.036	91	529878	20.244	ug/l	98
75) 2-Chlorotoluene	13.130	91	317896	20.410	ug/l	99
76) 1,3,5-Trimethylbenzene	13.178	105	377854	20.615	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	39064	19.197	ug/l	97
78) 4-Chlorotoluene	13.225	91	302635	20.268	ug/l	100
79) tert-butylbenzene	13.442	119	330346	20.356	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	379296	20.841	ug/l	100
81) sec-Butylbenzene	13.619	105	486036	20.856	ug/l	100
82) p-Isopropyltoluene	13.730	119	385177	20.386	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	195944	20.110	ug/l	100
84) 1,4-Dichlorobenzene	13.813	146	192269	20.231	ug/l	98
85) n-Butylbenzene	14.060	91	332506	20.764	ug/l	98
86) Hexachloroethane	14.342	117	70562	19.292	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	195214	19.925	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.725	75	25790	19.350	ug/l	93
89) 1,2,4-Trichlorobenzene	15.395	180	96224	19.252	ug/l	97
90) Hexachlorobutadiene	15.507	225	46671	19.383	ug/l	99
91) Naphthalene	15.642	128	325607	20.261	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	98097	19.337	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
Data File : VN076683.D
Acq On : 15 Feb 2023 13:30
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021523

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/16/2023
Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 16 01:12:48 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Feb 16 01:08:46 2023
Response via : Initial Calibration

