

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066574.D
 Acq On : 13 Apr 2021 12:56
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 4/23/2021 2:17:12 PM

Quant Time: Apr 13 13:52:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 13 13:47:30 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.099	128	52031	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.510	114	245019	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	236765	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.944	65	141147	34.18	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.93%#			
60) 4-Bromofluorobenzene	12.345	95	113788	30.63	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.10%			
63) Toluene-d8	10.025	98	351666	31.23	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.813	85	63730	21.47	ug/l	99
3) Chloromethane	2.017	50	85475	22.54	ug/l	98
4) Vinyl Chloride	2.143	62	80697	20.76	ug/l	99
5) Bromomethane	2.505	94	51772	19.06	ug/l	97
6) Chloroethane	2.642	64	52887	21.10	ug/l	96
7) Trichlorofluoromethane	2.956	101	113590	20.25	ug/l	100
8) Diethyl Ether	3.339	74	41484	21.69	ug/l	70
9) 1,1,2-Trichlorotrifluo...	3.672	101	59704	21.54	ug/l	88
10) 1,1-Dichloroethene	3.653	96	56740	20.75	ug/l	84
11) Methyl Iodide	3.865	142	76013m	19.81	ug/l	
12) Methyl Acetate	4.229	43	113250	25.52	ug/l	91
13) Acrolein	3.524	56	57250	161.08	ug/l	99
14) Acrylonitrile	4.876	53	145621	87.48	ug/l	97
15) Acetone	3.739	58	60498	114.56	ug/l	90
16) Carbon Disulfide	3.956	76	193008	24.44	ug/l	100
17) Allyl chloride	4.219	41	140041	26.82	ug/l	94
18) Methylene Chloride	4.444	84	59388m	18.74	ug/l	
19) trans-1,2-Dichloroethene	4.924	96	52694	18.17	ug/l	91
20) Diisopropyl ether	5.852	45	215705	20.19	ug/l #	93
21) 1,1-Dichloroethane	5.737	63	114431	19.89	ug/l	100
22) cis-1,2-Dichloroethene	6.724	96	56874	16.72	ug/l	86
23) tert-Butyl Alcohol	4.710	59	43229m	66.97	ug/l	
24) Methyl tert-Butyl Ether	4.935	73	163780	16.65	ug/l	93
25) Chloroform	7.279	83	111702	19.36	ug/l	96
26) Cyclohexane	7.563	56	86892	17.50	ug/l #	97
29) 1,1-Dichloropropene	7.705	75	77739	20.84	ug/l	97
30) 2-Butanone	6.740	43	217936	100.75	ug/l #	69
31) 2,2-Dichloropropane	6.718	77	98153	21.20	ug/l #	73
32) 1,1,1-Trichloroethane	7.480	97	100346	21.90	ug/l #	75
33) Carbon Tetrachloride	7.687	117	85780	22.15	ug/l	97
34) Benzene	7.957	78	239610	21.08	ug/l #	92
35) Methacrylonitrile	7.075	41	38836	20.80	ug/l	93
36) 1,2-Dichloroethane	8.041	62	96146	22.71	ug/l	98
37) Trichloroethene	8.759	130	53197	18.49	ug/l	96
38) Methylcyclohexane	9.006	83	74770	16.99	ug/l	77
39) 1,2-Dichloropropane	9.044	63	67679	21.81	ug/l	98
40) Dibromomethane	9.135	93	42749	21.50	ug/l	89
41) Bromodichloromethane	9.333	83	93077	21.99	ug/l	99
42) Vinyl Acetate	5.793	43	910448m	109.36	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.834	43	84726	20.42	ug/l #	95
44) Isopropyl Acetate	8.091	43	146843	19.89	ug/l #	80
45) 1,4-Dioxane	9.135	88	14368	320.25	ug/l #	63
46) Methyl methacrylate	9.135	41	64034	18.78	ug/l	87
47) n-amyl Acetate	12.021	43	43979m	15.81	ug/l	
48) t-1,3-Dichloropropene	10.318	75	88744	19.81	ug/l	99
49) cis-1,3-Dichloropropene	9.773	75	95036	19.75	ug/l	96
50) 1,1,2-Trichloroethane	10.500	97	57500	20.52	ug/l	97
51) Ethyl methacrylate	10.368	69	67154	16.14	ug/l	88
52) 1,3-Dichloropropane	10.645	76	99996	21.20	ug/l	98
53) Dibromochloromethane	10.838	129	60152	19.38	ug/l	95
54) 1,2-Dibromoethane	10.942	107	55724	19.56	ug/l	100
55) 2-Chloroethyl vinyl ether	9.631	63	37771	64.25	ug/l	98
56) Bromoform	12.069	173	40192	17.94	ug/l #	99
58) 4-Methyl-2-Pentanone	9.921	43	458572	97.03	ug/l #	92
59) 2-Hexanone	10.693	43	290756	90.79	ug/l	92
61) Tetrachloroethene	10.570	164	48776	15.69	ug/l	94
62) Toluene	10.090	91	242688	18.67	ug/l	100
64) Chlorobenzene	11.372	112	142330	18.69	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.449	131	59104	19.55	ug/l	97
66) Ethyl Benzene	11.452	91	246319	17.81	ug/l	96
67) m/p-Xylenes	11.562	106	186901	36.21	ug/l	100
68) o-Xylene	11.889	106	85007	16.94	ug/l	96
69) Styrene	11.905	104	141824	17.53	ug/l	98
70) Isopropylbenzene	12.192	105	224989	17.04	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.447	83	84429	19.50	ug/l	98
72) 1,2,3-Trichloropropane	12.498	75	72070m	17.82	ug/l	
73) Bromobenzene	12.466	156	56837	17.42	ug/l	90
74) n-propylbenzene	12.533	91	269233	18.17	ug/l	97
75) 2-Chlorotoluene	12.616	91	165175	18.37	ug/l	96
76) 1,3,5-Trimethylbenzene	12.678	105	194914	17.75	ug/l	98
77) t-1,4-Dichloro-2-butene	12.246	75	18284	14.37	ug/l	83
78) 4-Chlorotoluene	12.715	91	167304	18.90	ug/l	96
79) tert-butylbenzene	12.938	119	154119	16.36	ug/l	95
80) 1,2,4-Trimethylbenzene	12.983	105	184722	17.37	ug/l	100
81) sec-Butylbenzene	13.115	105	209602	17.29	ug/l	100
82) p-Isopropyltoluene	13.233	119	181749	17.04	ug/l	98
83) 1,3-Dichlorobenzene	13.227	146	99527	18.32	ug/l	96
84) 1,4-Dichlorobenzene	13.308	146	89040	17.14	ug/l	94
85) n-Butylbenzene	13.560	91	138472	16.11	ug/l	97
86) Hexachloroethane	13.815	117	42218	20.58	ug/l	80
87) 1,2-Dichlorobenzene	13.598	146	95479	17.88	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.233	75	14948m	17.33	ug/l	
89) 1,2,4-Trichlorobenzene	14.981	180	46216	14.09	ug/l	95
90) Hexachlorobutadiene	15.108	225	31385	17.02	ug/l	99
91) Naphthalene	15.263	128	112163	11.61	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.502	180	47568	14.74	ug/l	99

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

MMDadoda
4/23/2021 2:17:12 PM

Abundance

TIC: VN066574.D\data.ms

Time-->

750000

700000

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Chlorodifluoromethane, M

Chloromethane, M

Vinyl Chloride, M

Bromomethane, M

Chloroethane, M

Trichlorofluoromethane, M

Diethyl Ether, T

Acrolein, M

Methyl Iodide

Carbon Disulfide, M

Methyl Acetate

Methylene Chloride, M

tert-Butyl Alcohol, M

Acetonitrile, M

Methyl 2-Dichloroethane, M

1,1-Dichloroethane, M

Disopropyl ether, T

Vinyl Acetate, M

2,2-Dichloroethane, M

Ethyl Acetate

Methoxybenzene, M

Chloroform, M

1,1,1-Trichloroethane, M

1,1-Dichloroethane, M

1,2-Dichloroethane, M

1,2-Dichloropropane, M

1,4-Difluorobenzene, I

Trichloroethene, M

1,2-Dichlorobenzene, M

2-Chloroethyl vinyl ether, M

cis-1,3-Dichloropropene, T

Toluene, M

4-Methyl-2-Pentanone, M

2-Hexanone, M

Chlorobenzene, M

Chlorobenzene-d5, I

mp-Xylene, M

Ethyl 2-Acetylacrylate, M

Styrene-Xylene, M

Isopropylbenzene

4-Bromofluorobenzene, S

n-Propylbenzene

3,5-Trimethylbenzene

tert-Butylbenzene

sec-Butylbenzene

1,4-Dichlorobenzene, M

n-Butylbenzene

1,2-Dichlorobenzene, M

Hexachloroethane, T

1,2-Dibromo-3-Chloropropane

1,2,4-Trichlorobenzene

Hexachlorobutadiene

Naphthalene, M

1,2,3-Trichlorobenzene