

New Journal of Chemistry

Efficient Synthetic Procedure to New 2-Imino-1,3-Thiazolines and Thiazolidin-4-ones promoted by Acetonitrile Electrogenerated Base

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The Supplementary Information is available free of charge.

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Copies of ¹H and ¹³C NMR spectra, IR and MS of new 1,3-thiazolines **3(a-h)** and new 1,3-thiazolidin-4-ones **4(a,f,g)** is provided as well as a HMBC correlation NMR spectra (of representative 2-imino-1,3-thiazoline **3g**).

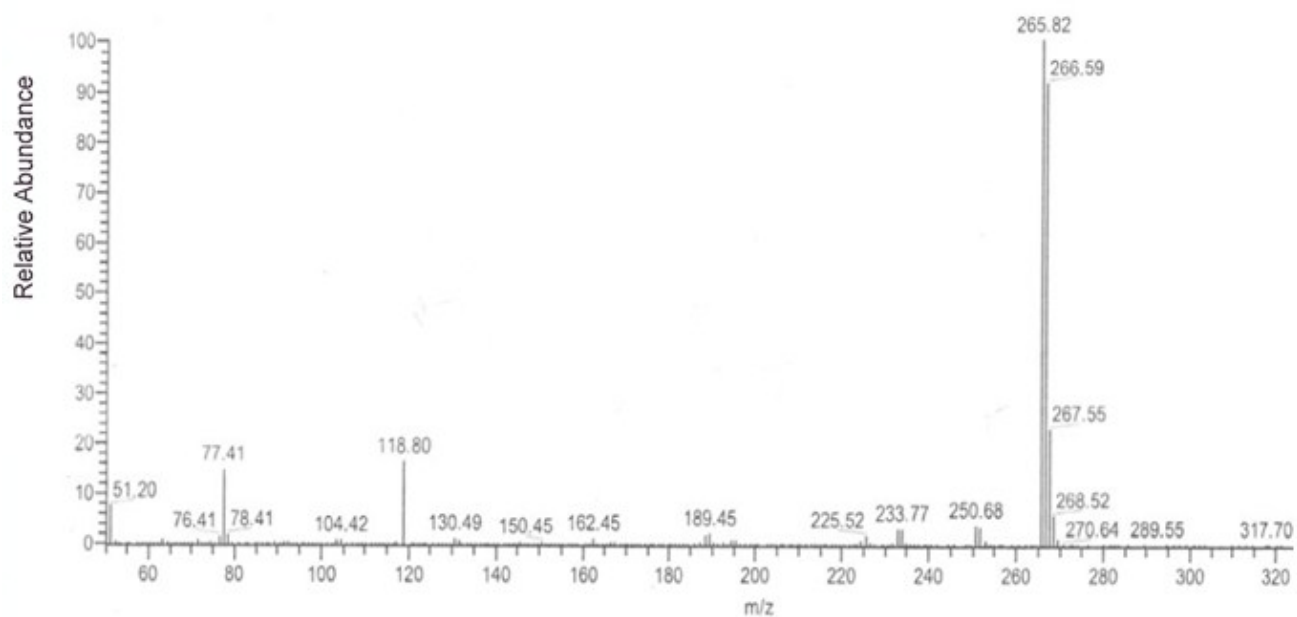
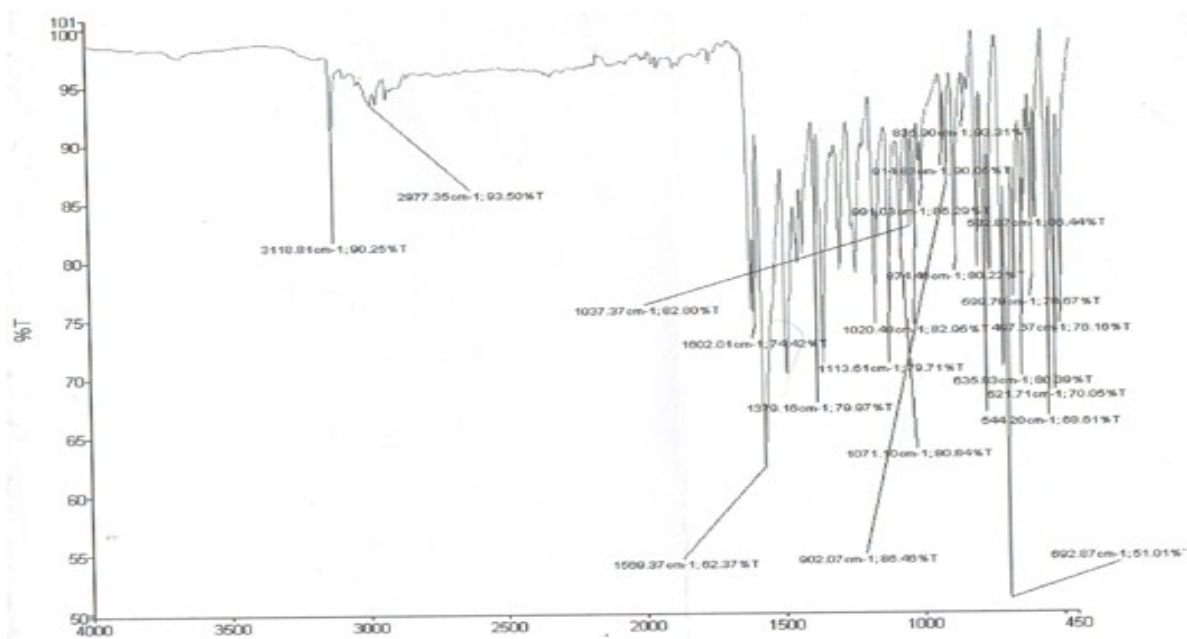
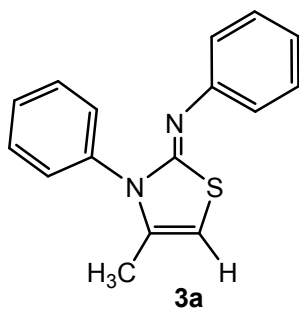
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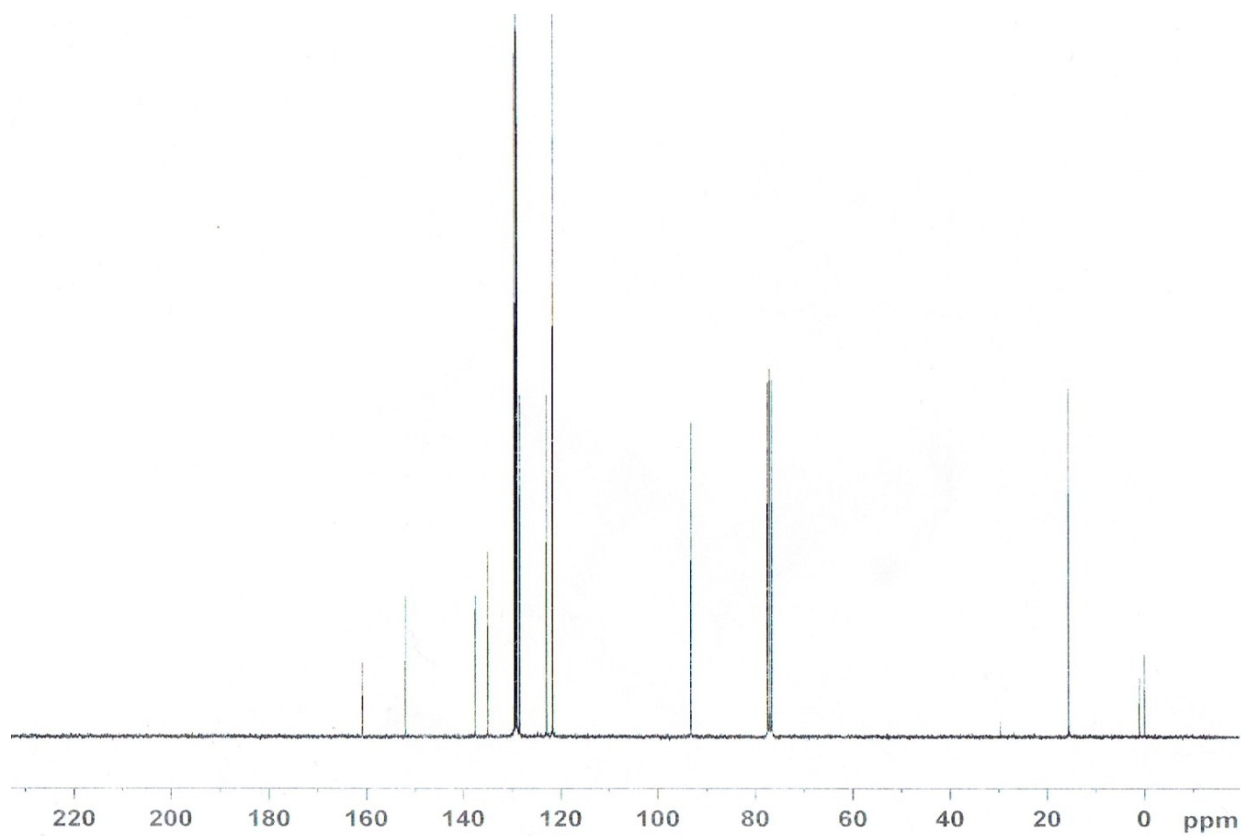
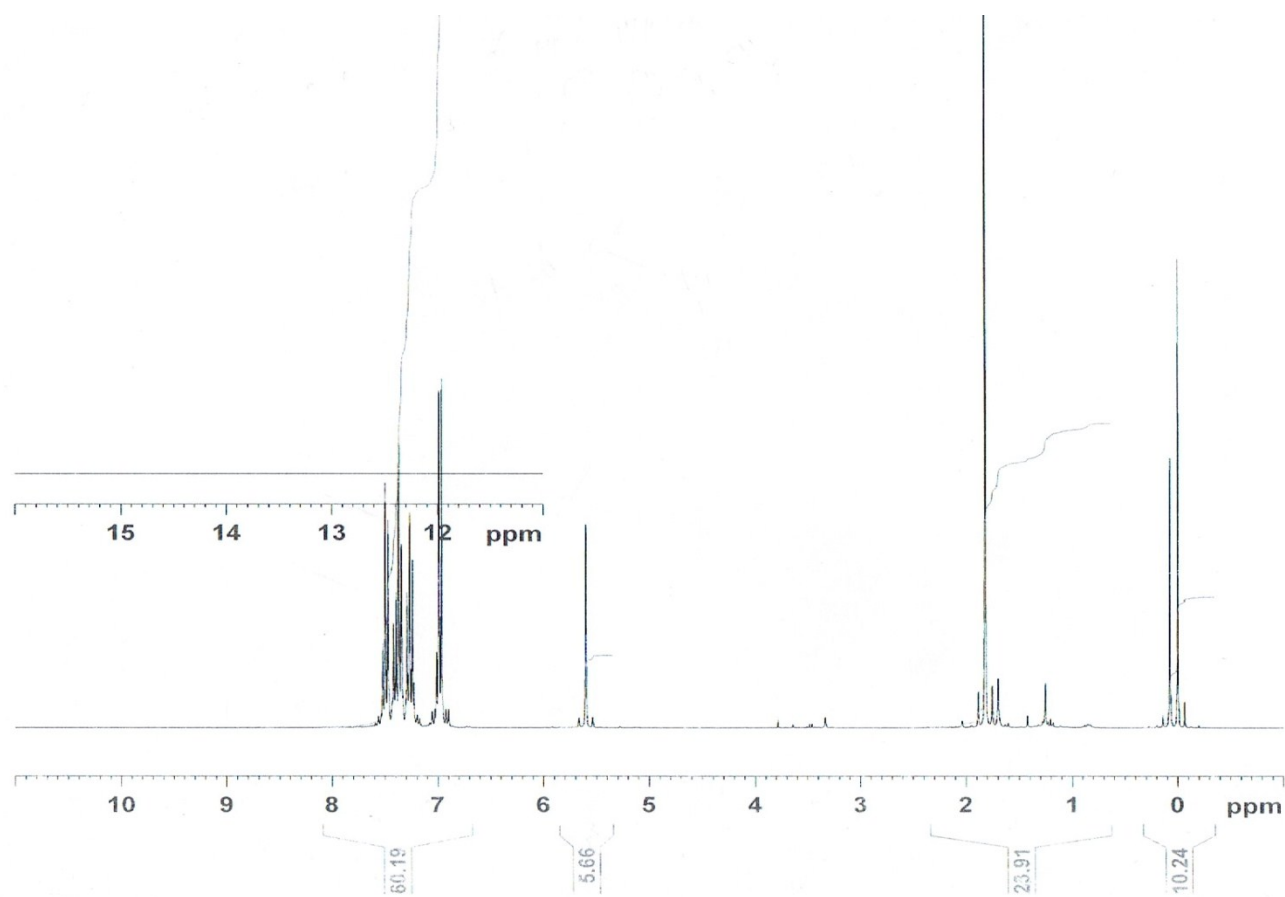
4-Methyl-3-phenyl-2-(*N*-phenylimino)-1,3-thiazoline (3a)

SI-3/SI-4

(IR, MS, ^1H and ^{13}C NMR)



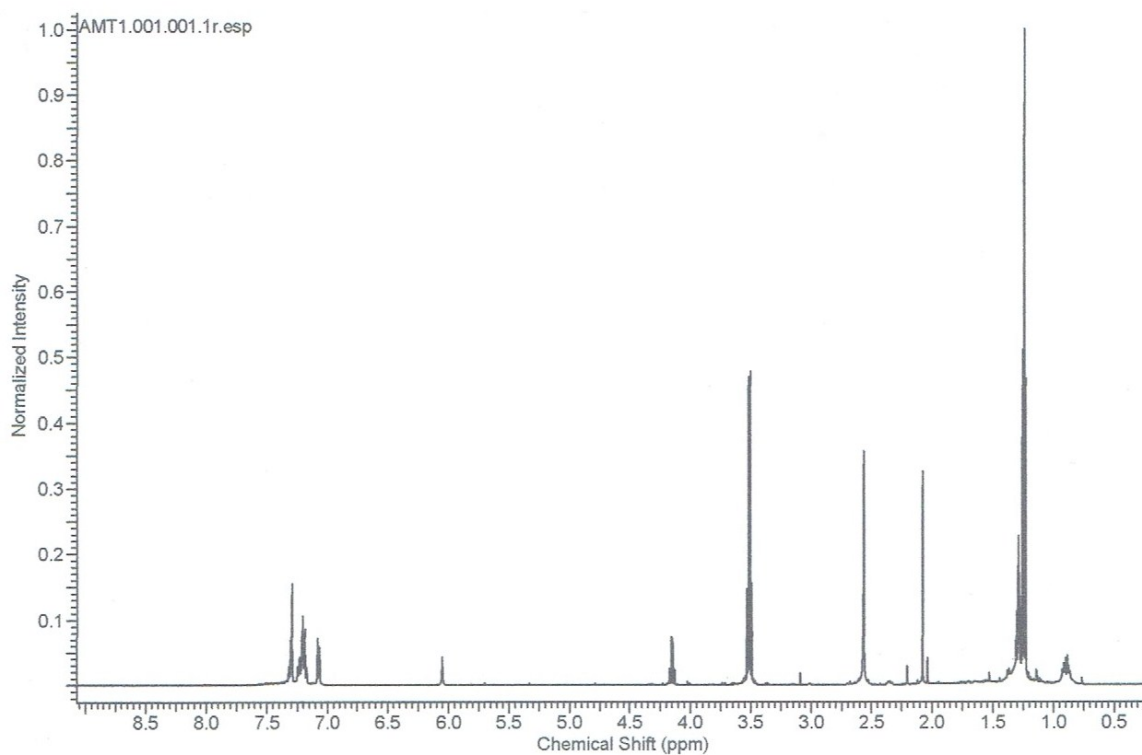
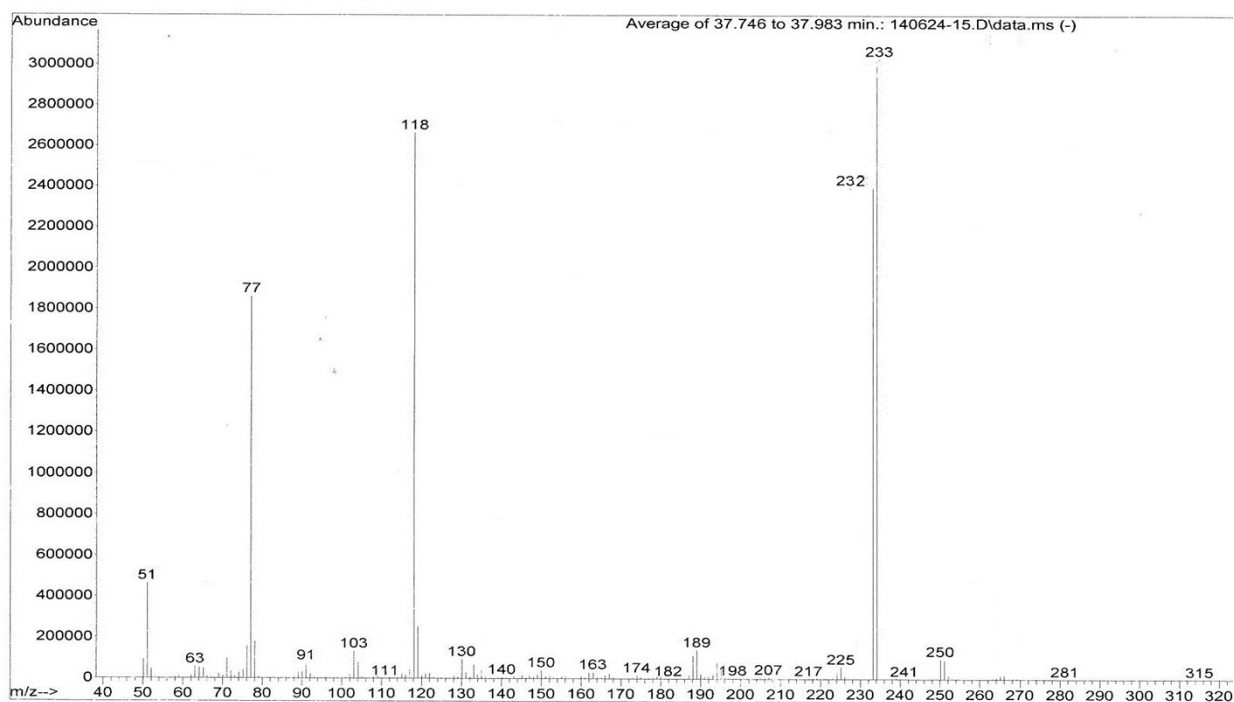
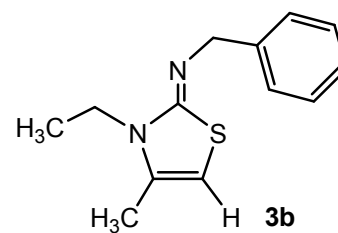
SI-3



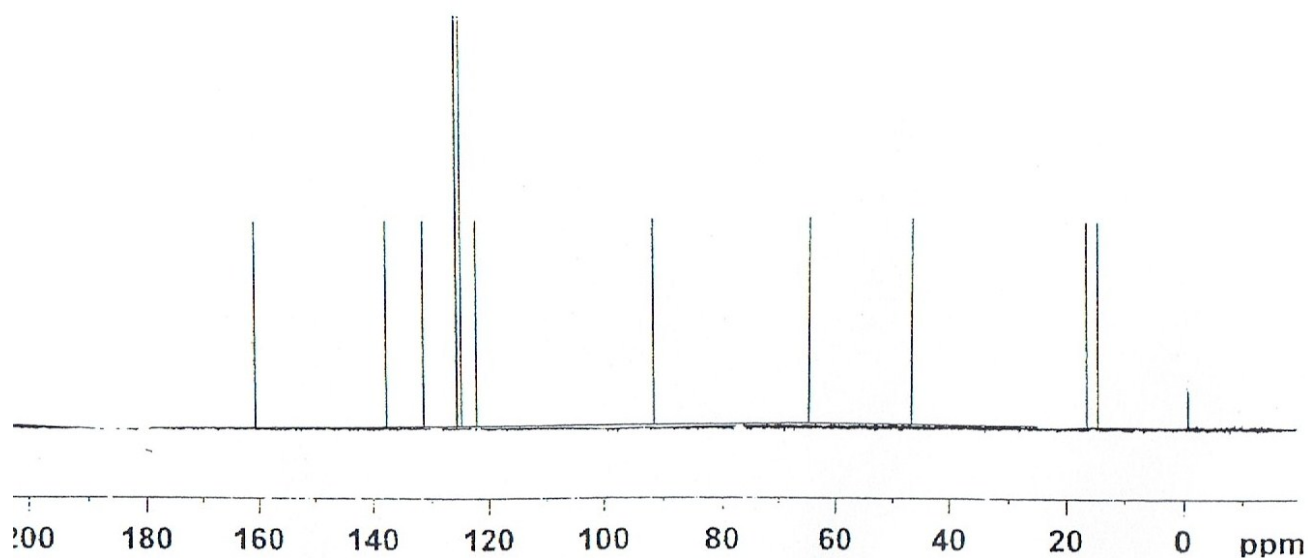
2-(*N*-Benzylimino)- 3-ethyl-4-methyl-1,3-thiazoline (3b)

SI-5/SI-6

(MS, ^1H and ^{13}C NMR)

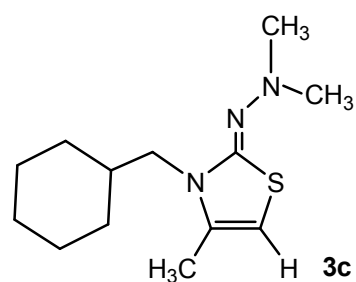


SI-5



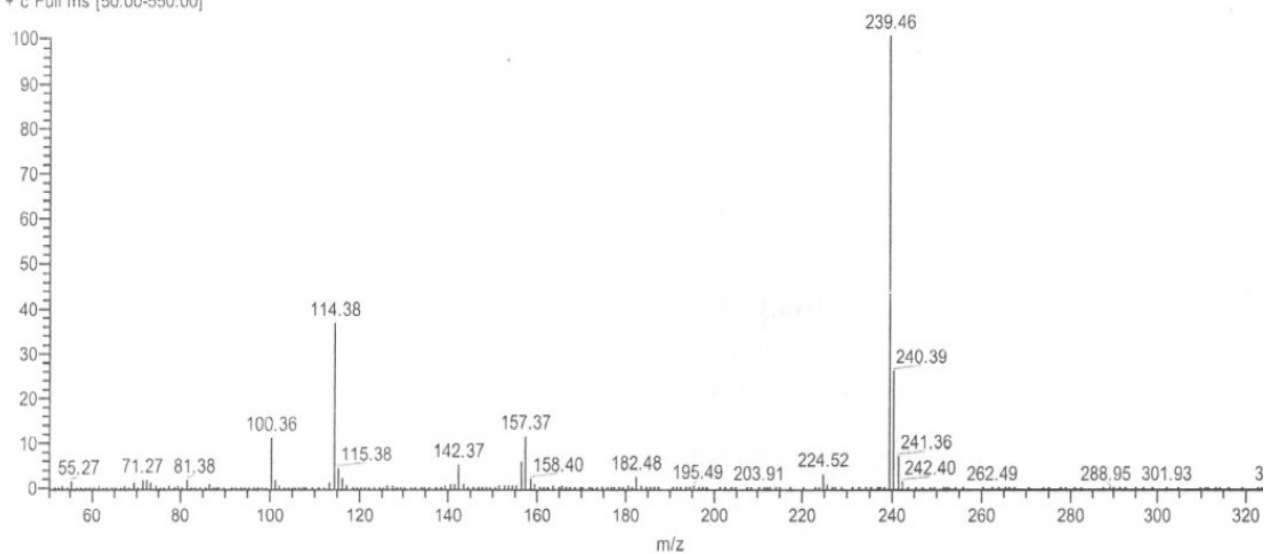
3-Cyclohexyl-4-methyl-2-(*N,N*-dimethylhydrazono)-1,3-thiazoline (3c)

SI-6/SI-7

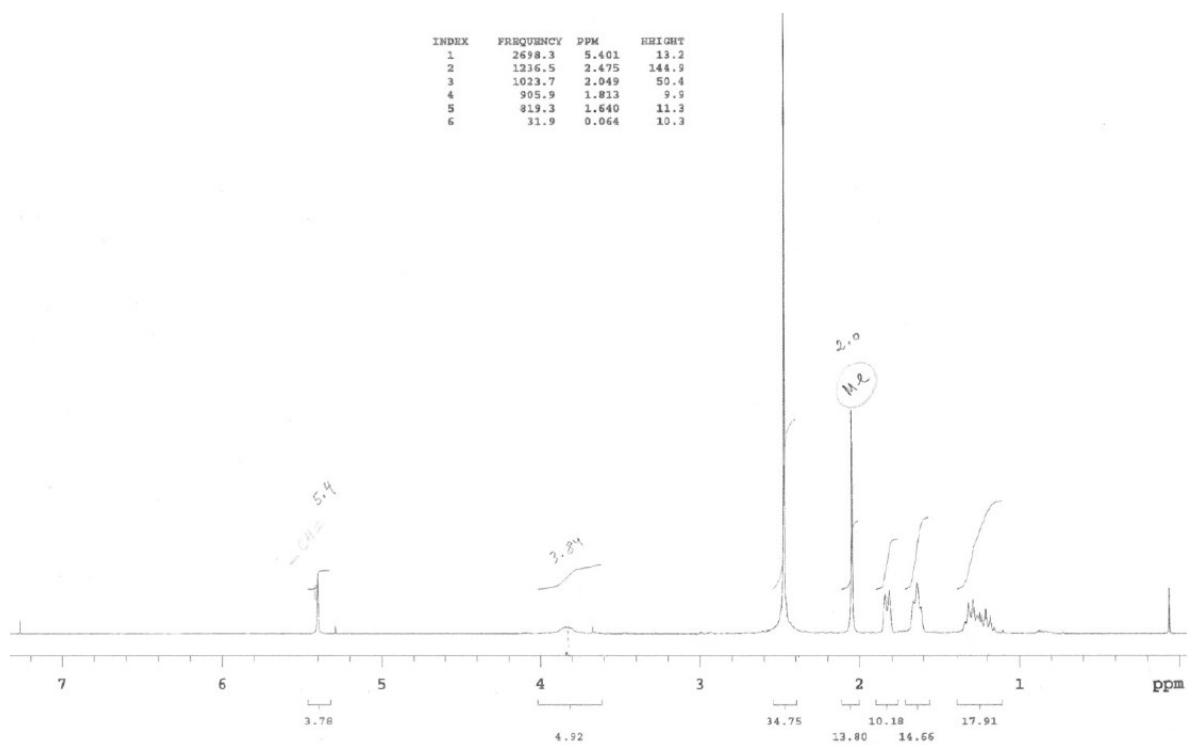


(MS, ¹H and ¹³C NMR)

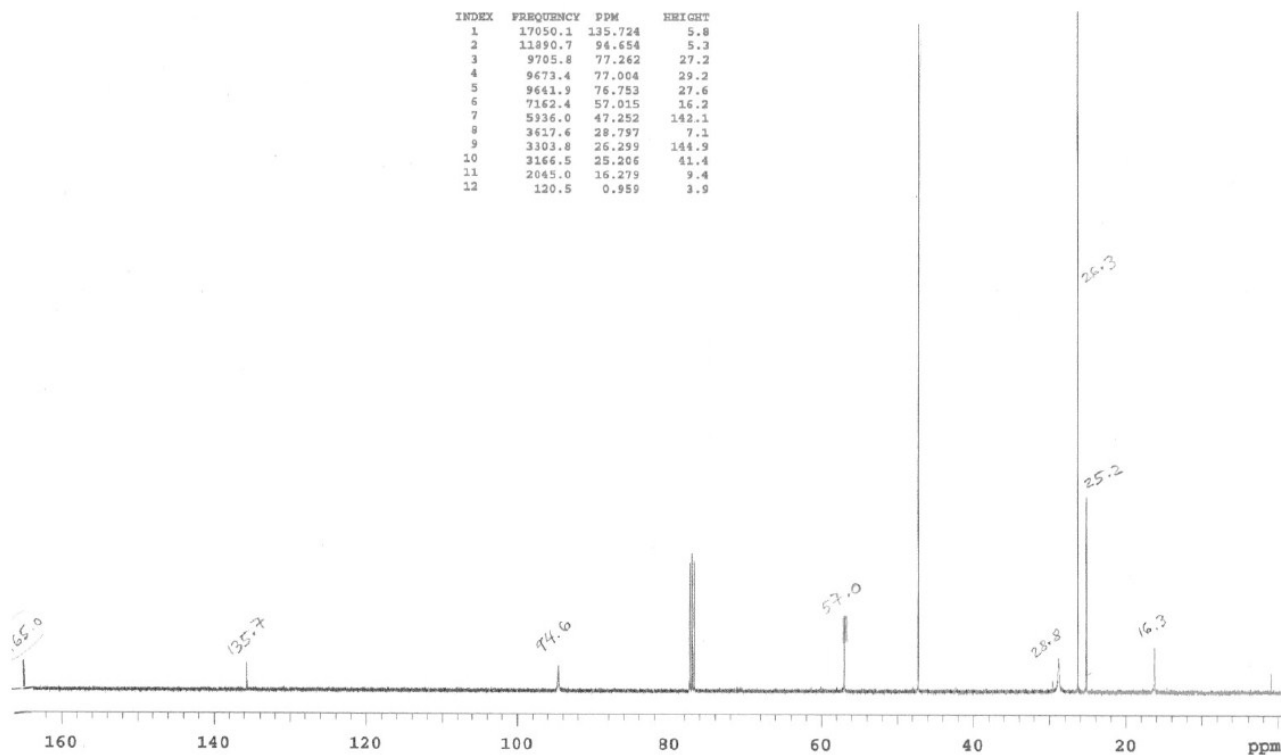
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2	1236.5	2.475	144.9
3	1023.7	2.049	50.4
4	905.9	1.813	9.9
5	819.3	1.640	11.3
6	31.9	0.064	10.3

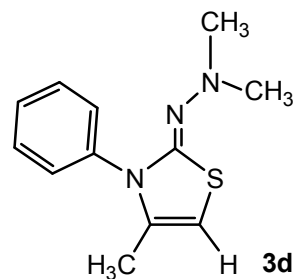


INDEX	FREQUENCY	PPM	HEIGHT
1	17050.1	135.724	5.8
2	11890.7	96.654	5.3
3	9705.8	77.262	27.2
4	9673.4	77.004	29.2
5	9641.9	76.753	27.6
6	7162.4	57.015	16.2
7	5936.0	47.252	142.1
8	3617.6	28.797	7.1
9	3303.8	26.259	144.9
10	3166.5	25.206	41.4
11	2045.0	16.279	9.4
12	120.5	0.959	3.9



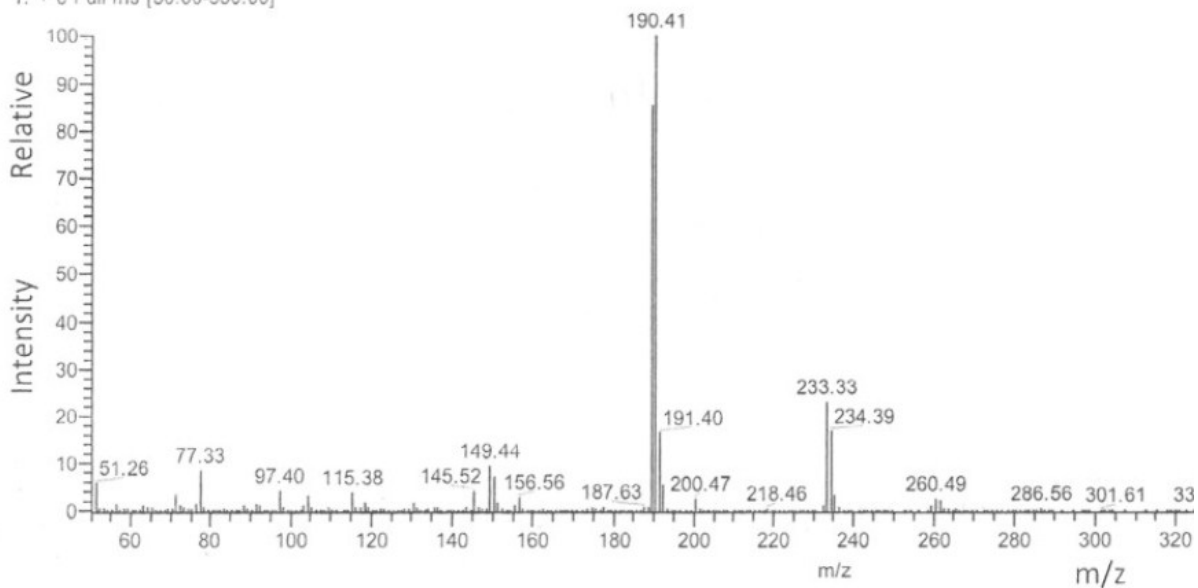
4-Methyl-2-(*N,N*-dimethylhydrazono)-3-phenyl-1,3-thiazoline (3d)

SI-8/SI-9

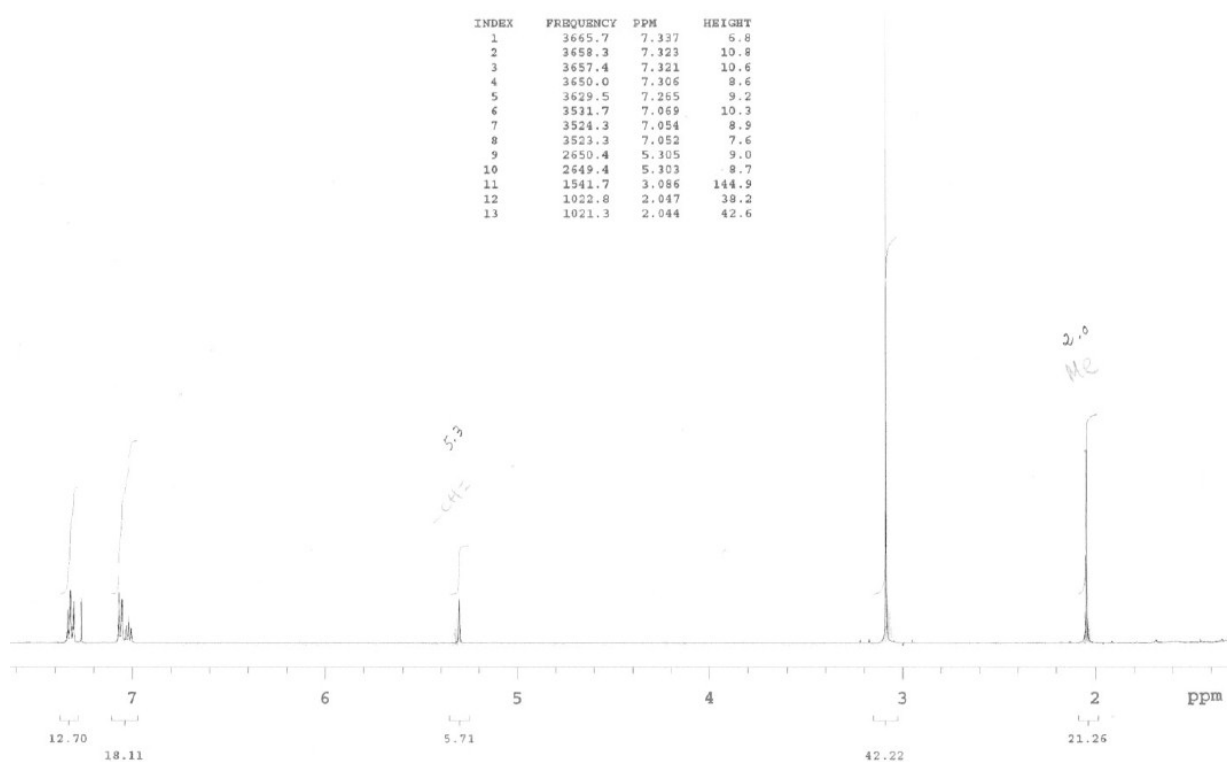


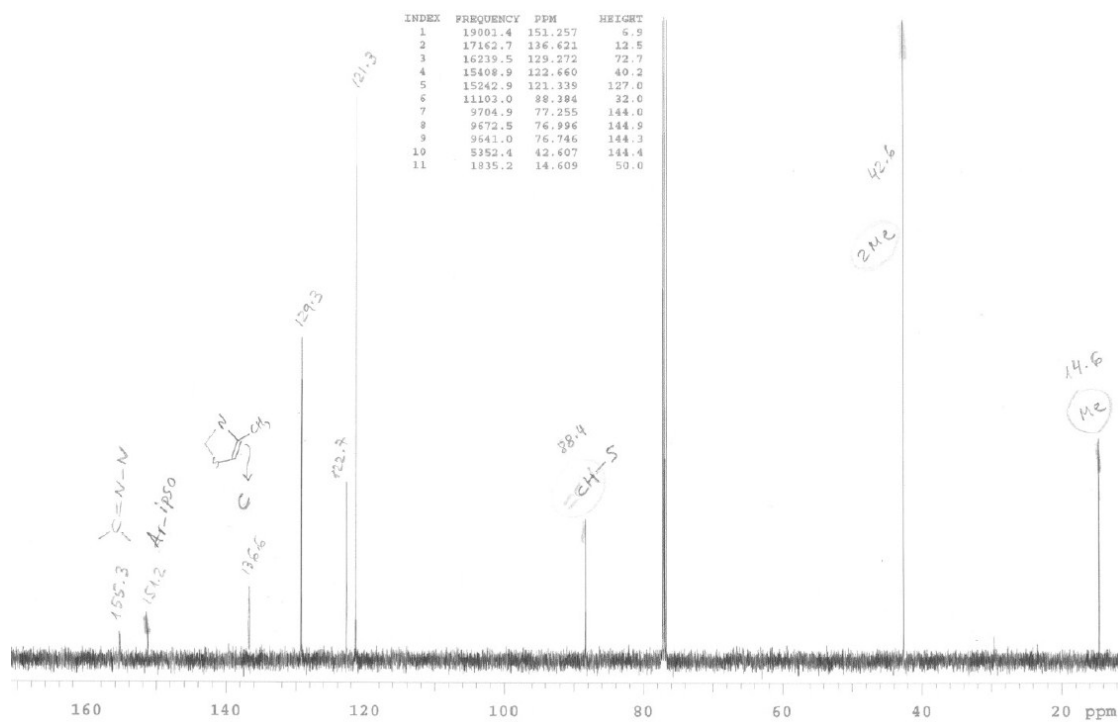
(MS, ^1H and ^{13}C NMR)

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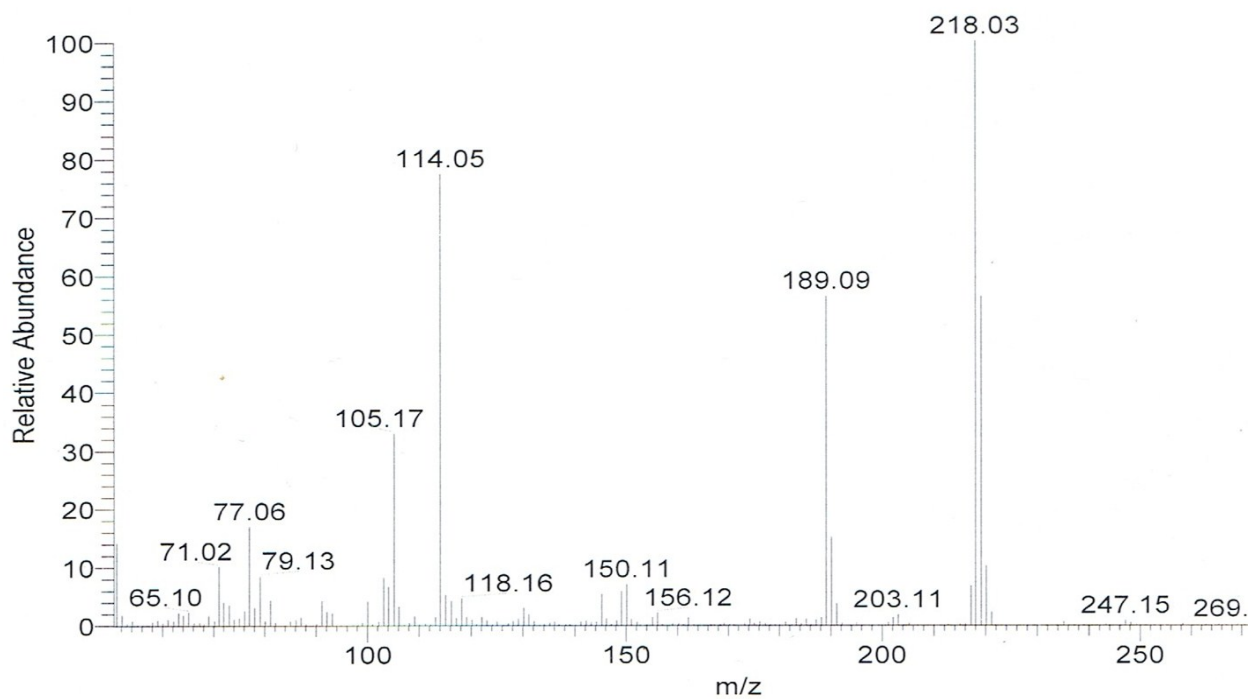
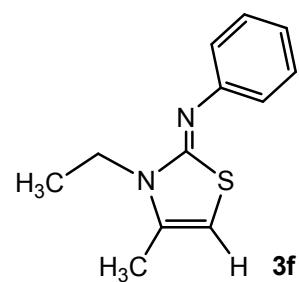
INDEX	FREQUENCY	PPM	HEIGHT
1	3665.7	7.337	5.8
2	3658.3	7.323	10.8
3	3657.4	7.321	10.6
4	3650.0	7.306	9.6
5	3629.5	7.265	9.2
6	3531.7	7.069	10.3
7	3524.3	7.054	8.9
8	3523.3	7.052	7.6
9	2650.4	5.305	9.0
10	2649.4	5.303	8.7
11	1541.7	3.086	144.9
12	1022.8	2.047	38.2
13	1021.3	2.044	42.6

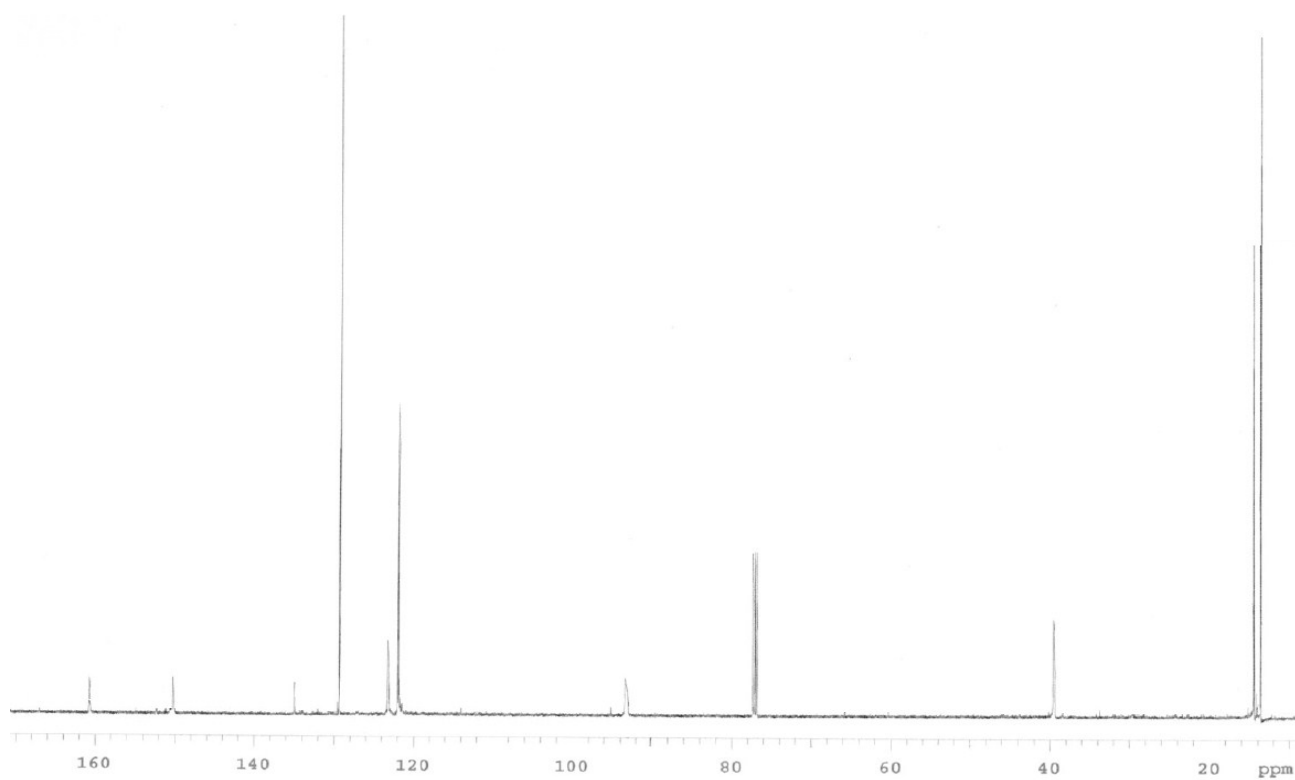
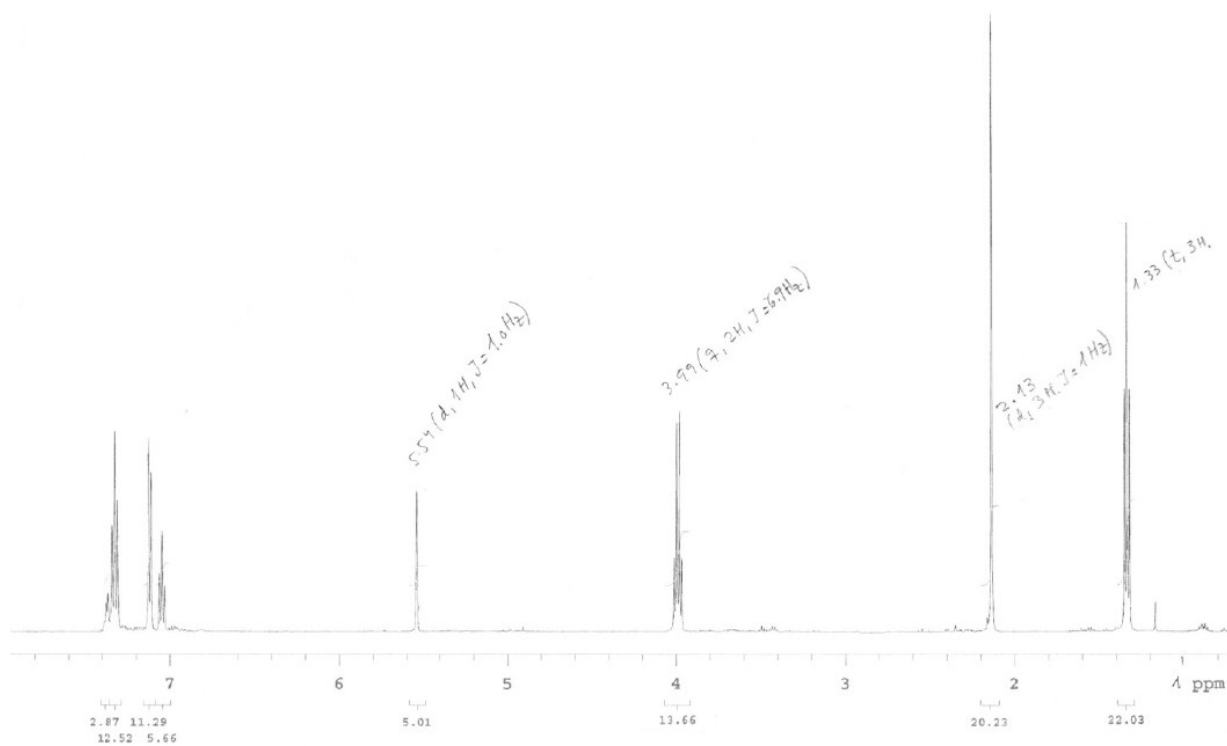




3-Ethyl-4-methyl-2-(N-phenylimino)-1,3-thiazoline (3f)
(MS, ^1H NMR, ^{13}C NMR)

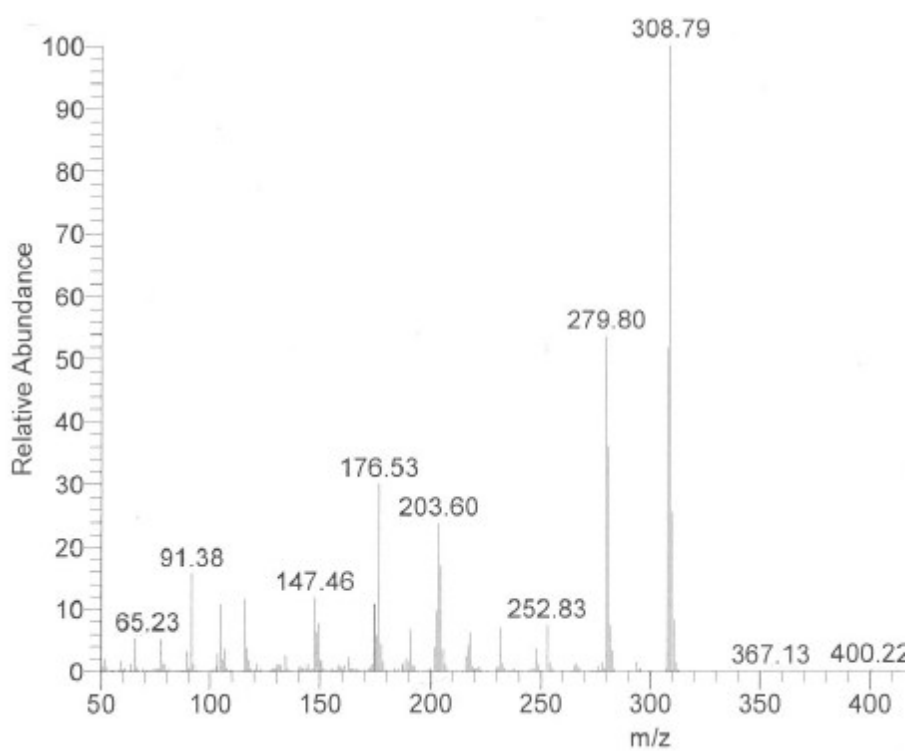
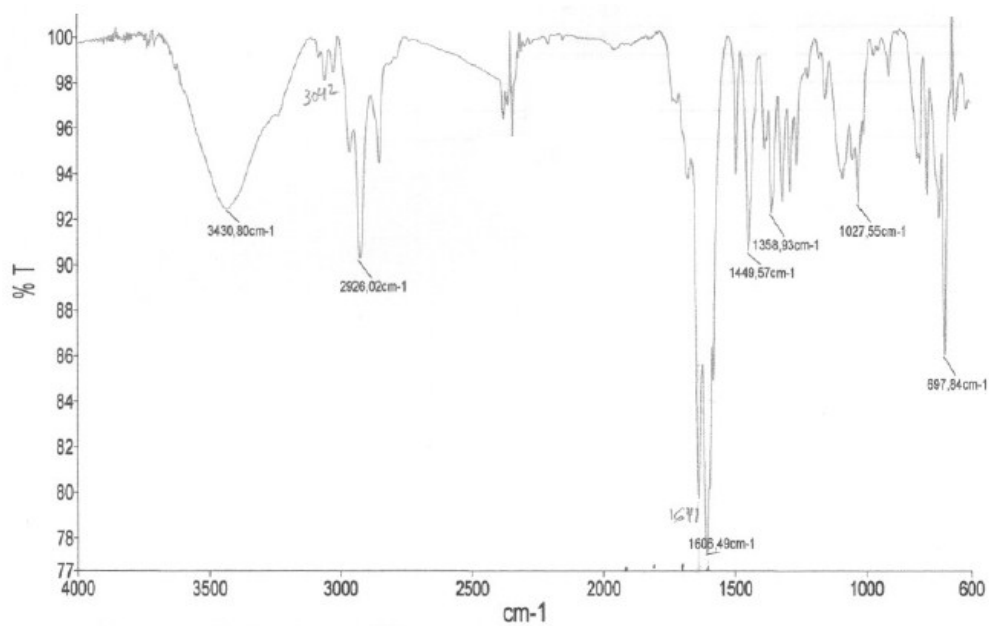
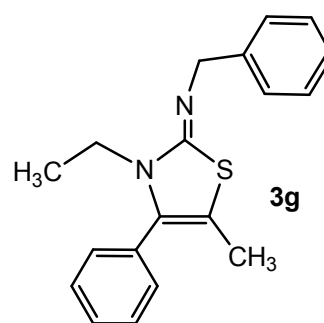
SI-9/SI-10

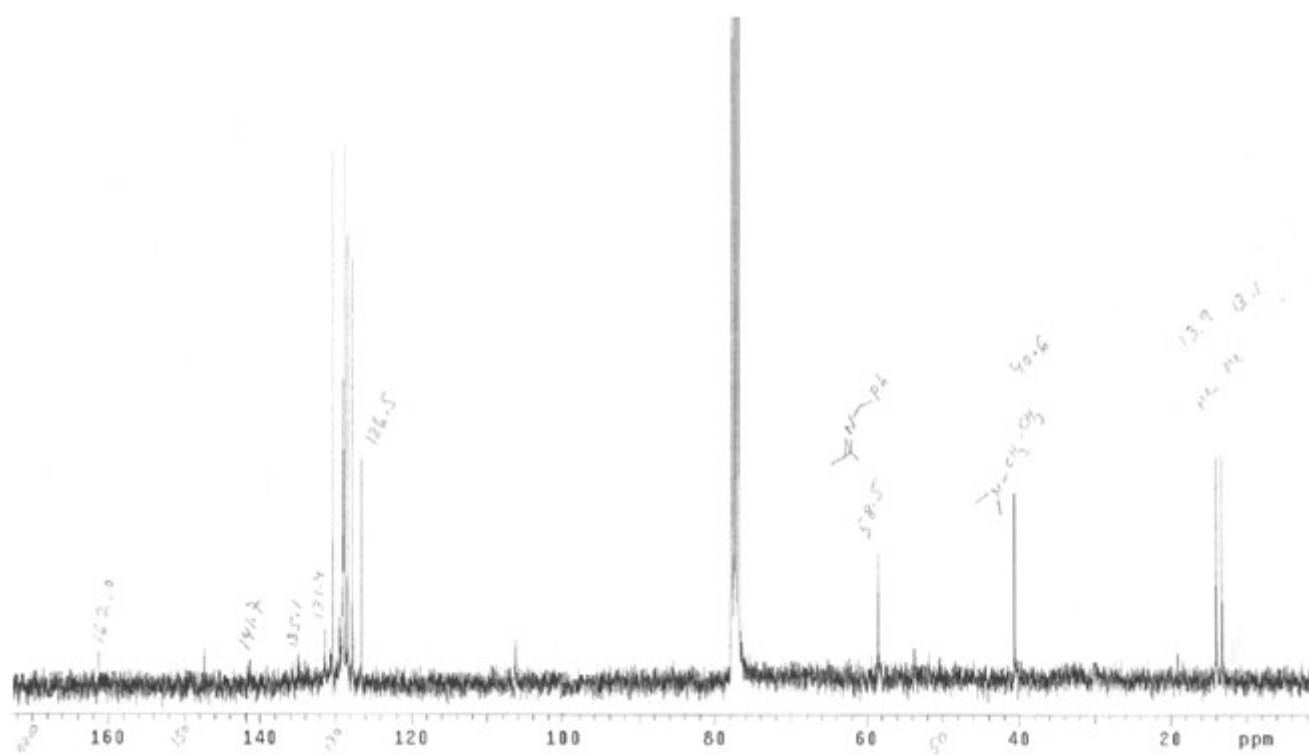
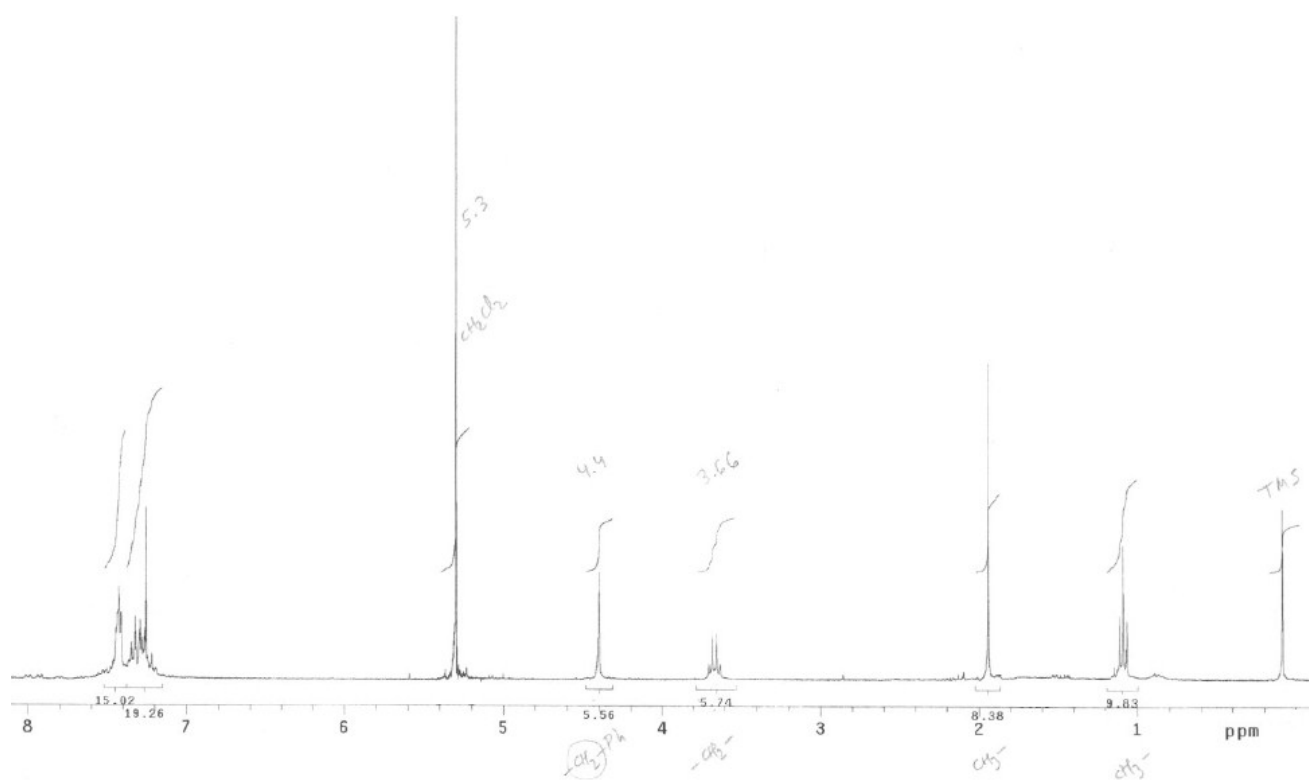




3-Ethyl-2-(*N*-benzylimino)-5-methyl-4-phenyl-1,3-thiazoline (3g)
(IR, MS, ¹H and ¹³C NMR)

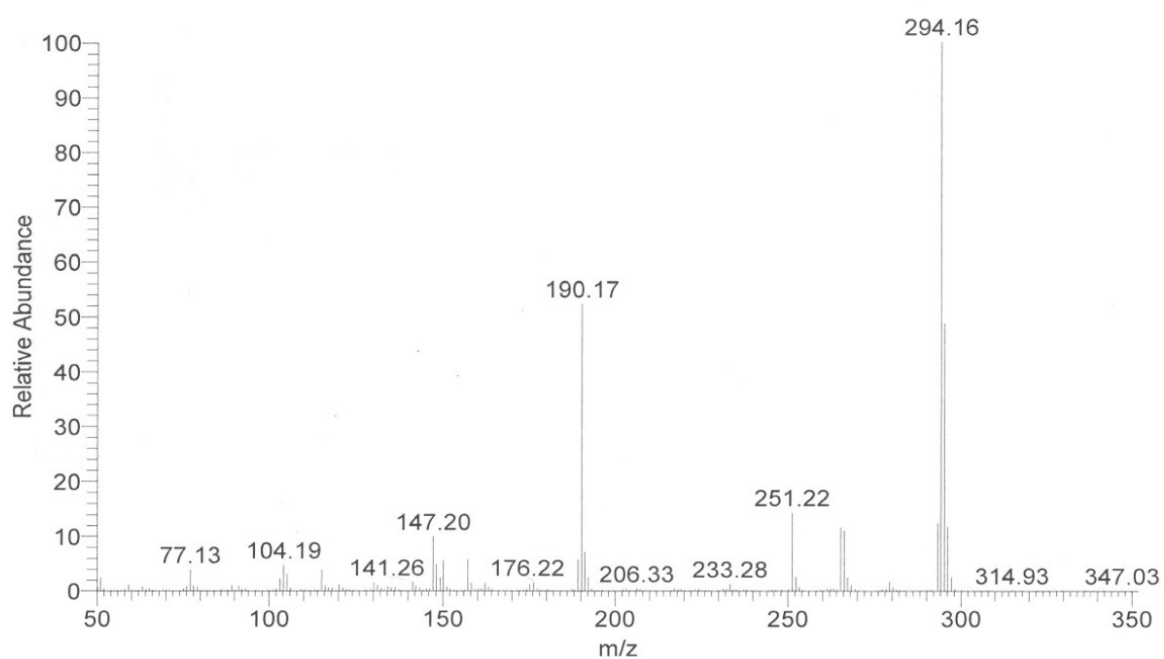
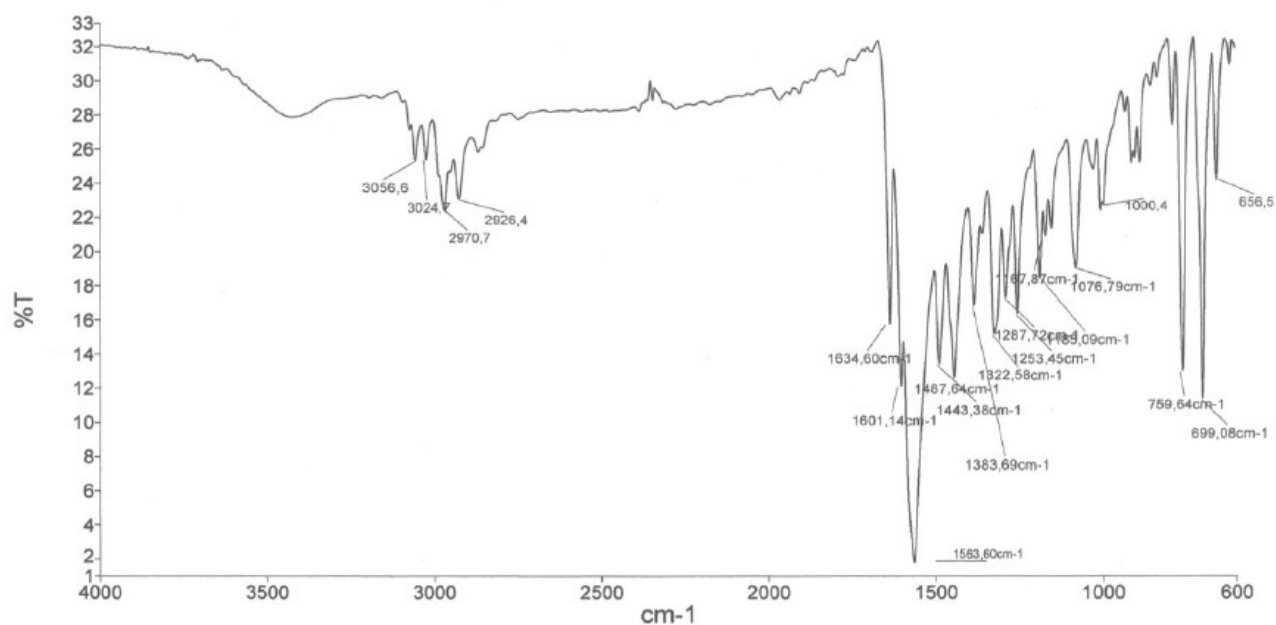
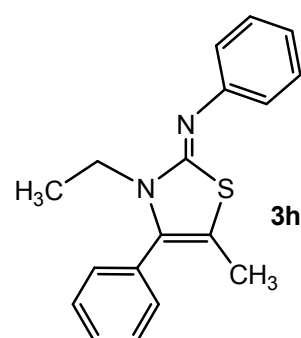
SI-11/SI-12

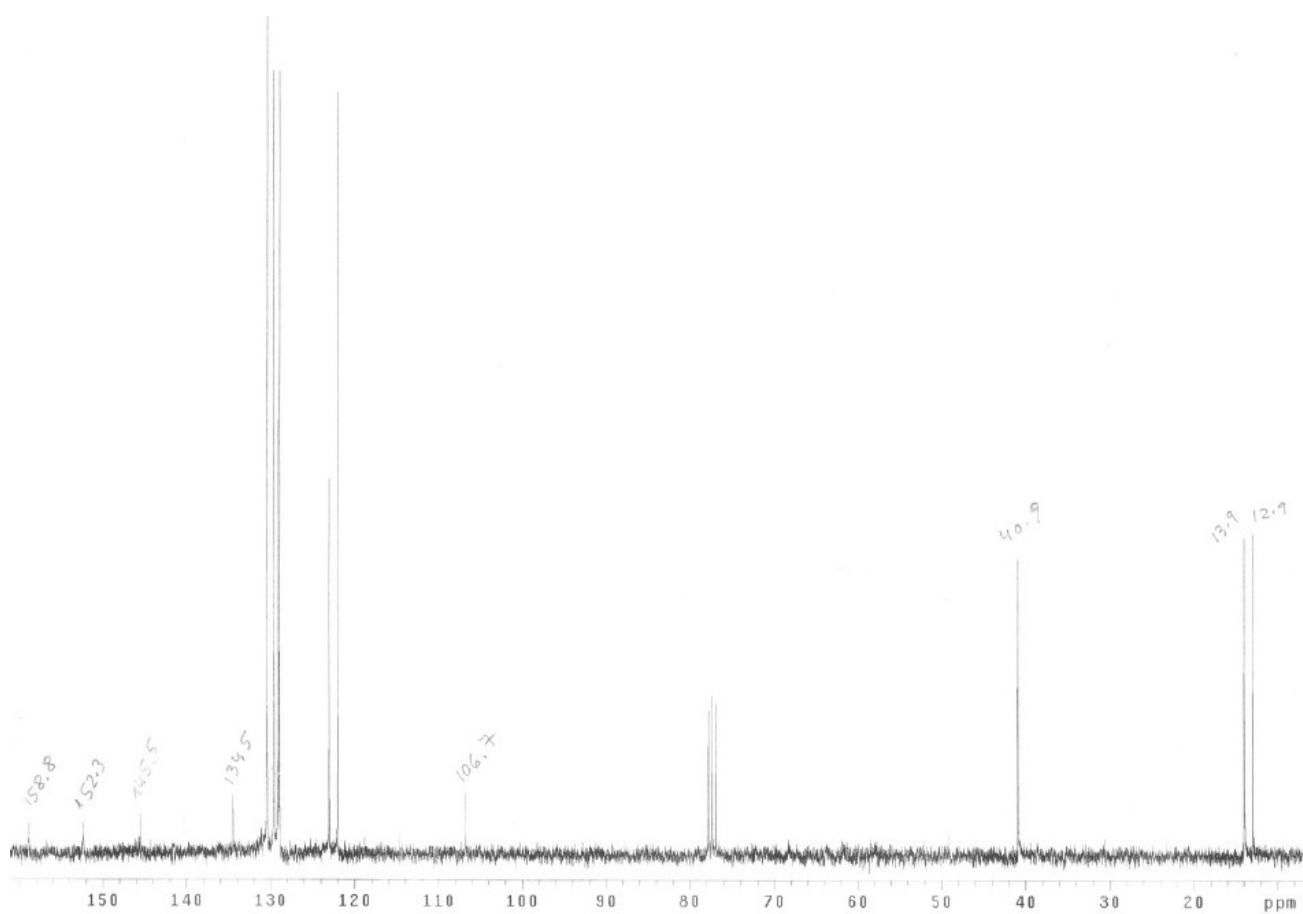
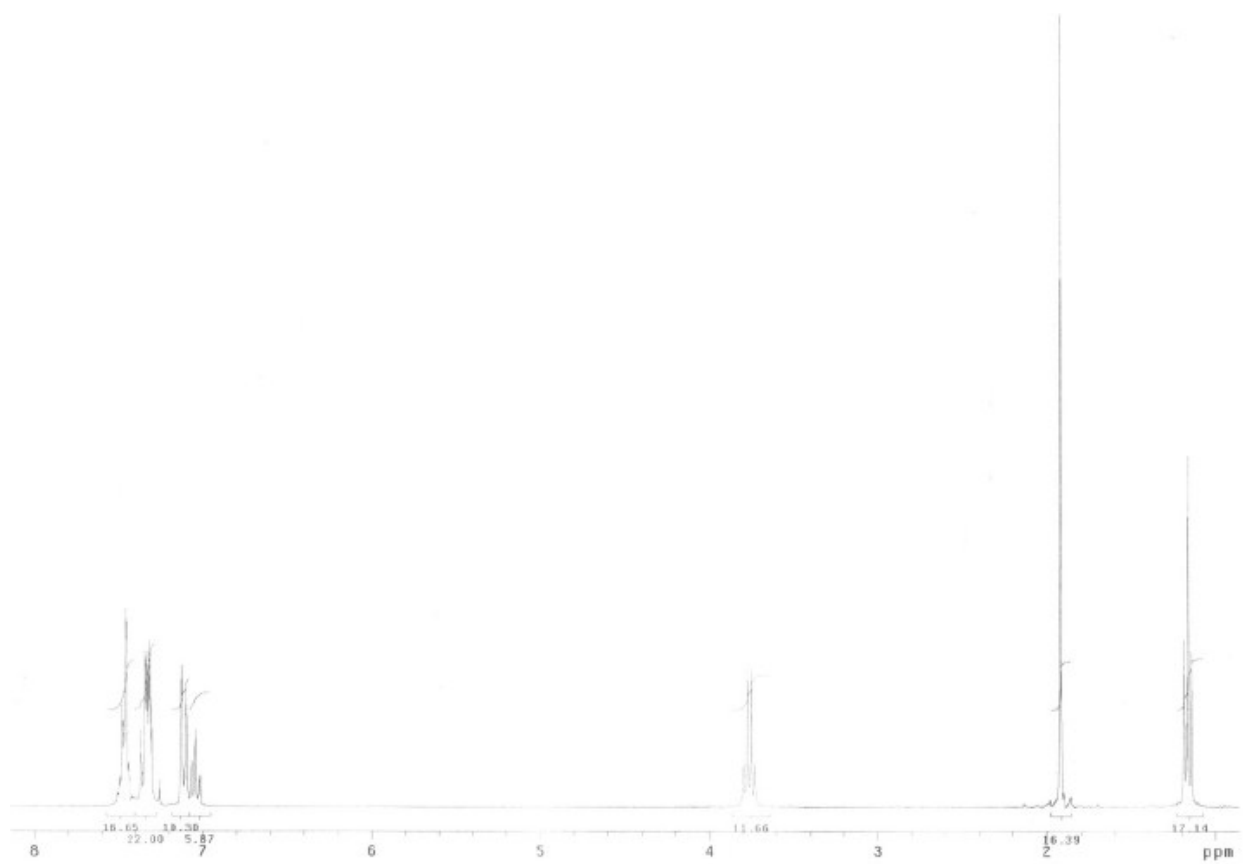




3-Ethyl-5-methyl-4-phenyl-2-(*N*-phenylimino)-1,3-thiazoline (3h)
(IR, MS, ¹H and ¹³C NMR)

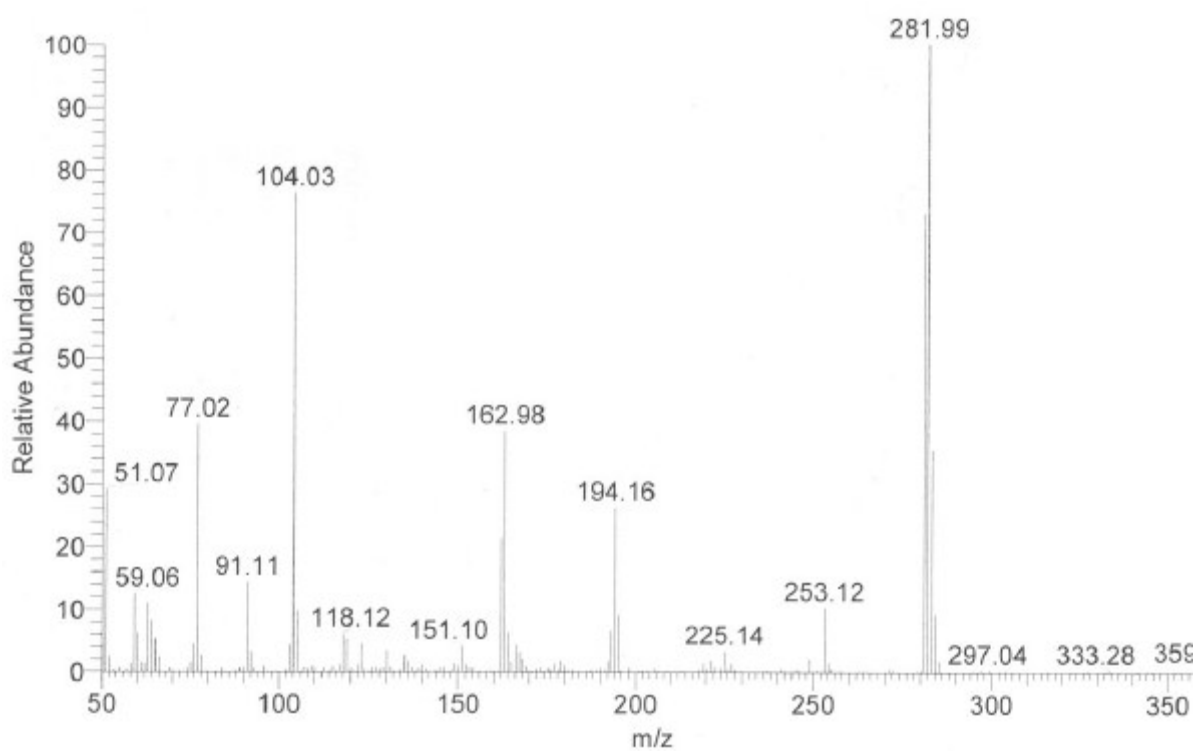
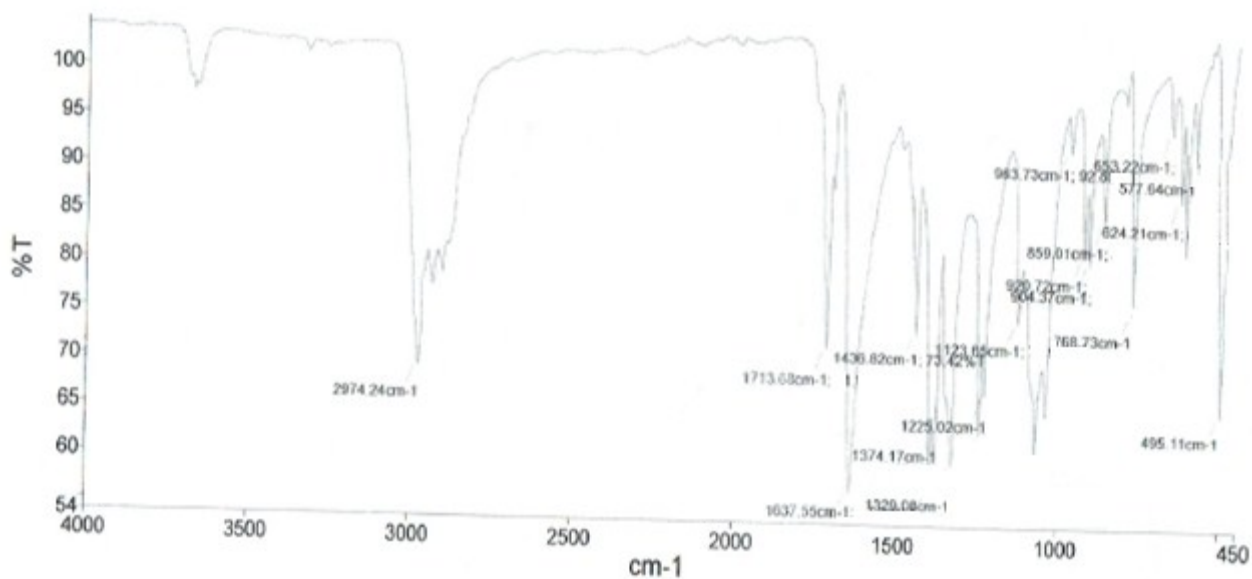
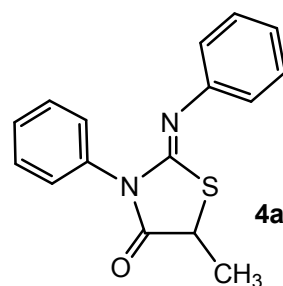
SI-13/SI-14

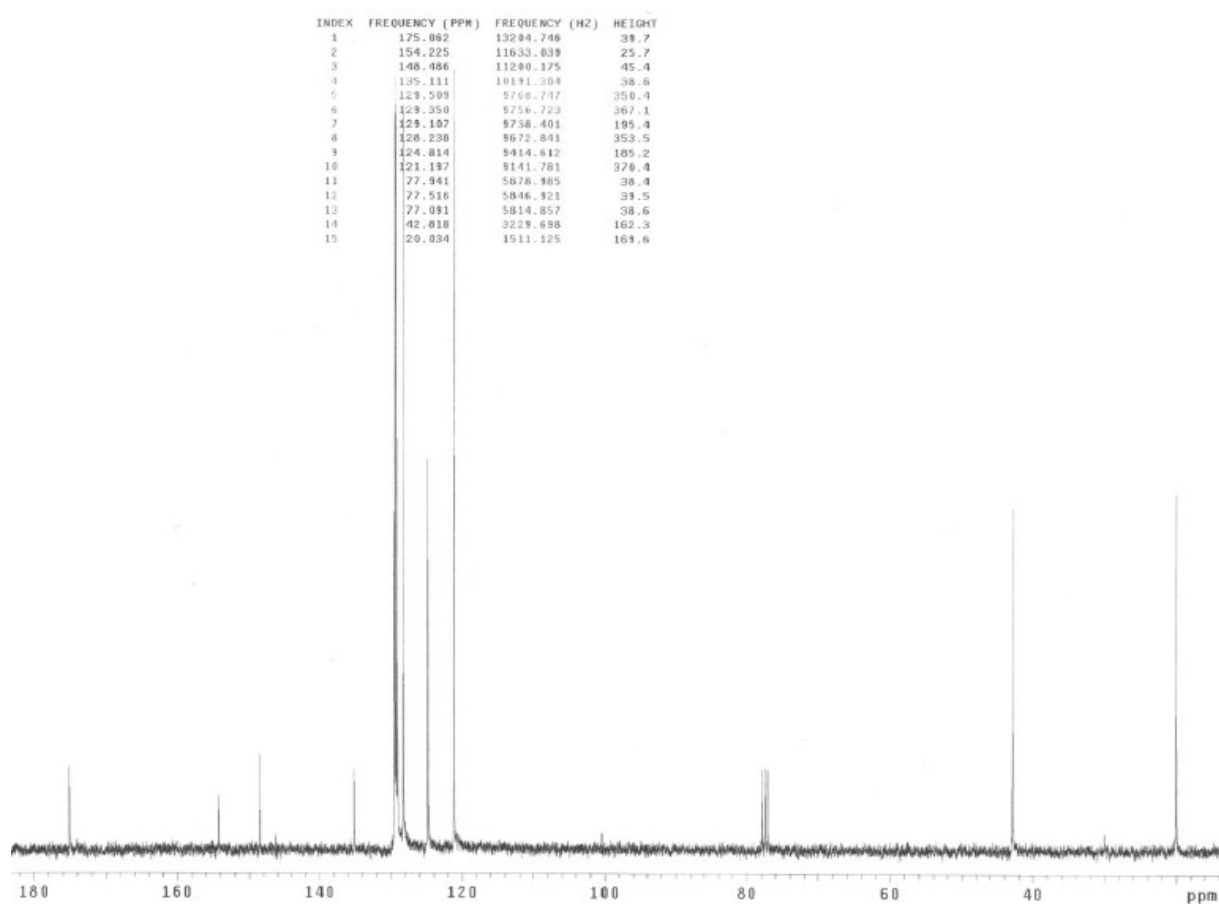
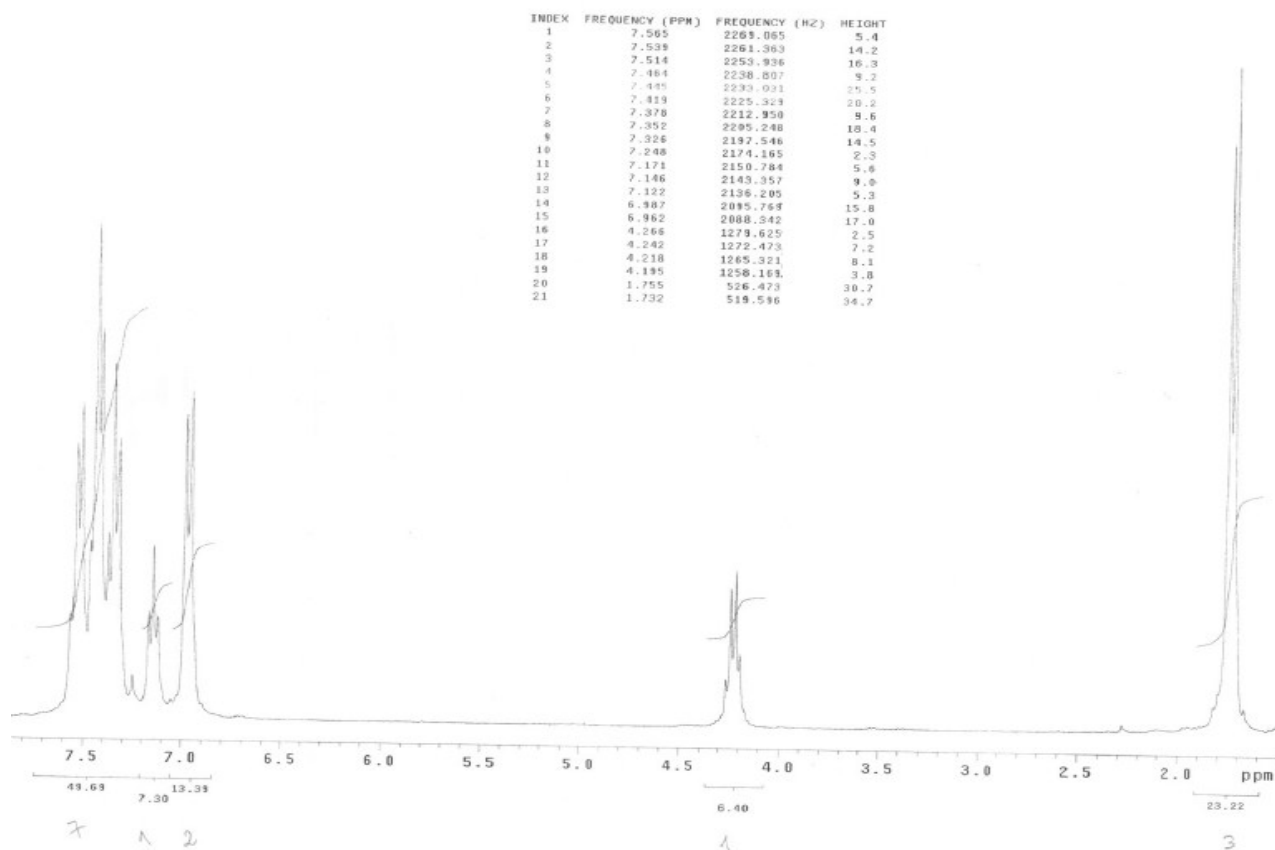




5-Methyl-3-phenyl-2-(*N*-phenylimino)-1,3-thiazolidin-4-one (4a)
(IR, MS, ¹H and ¹³C NMR)

SI-15/SI-16



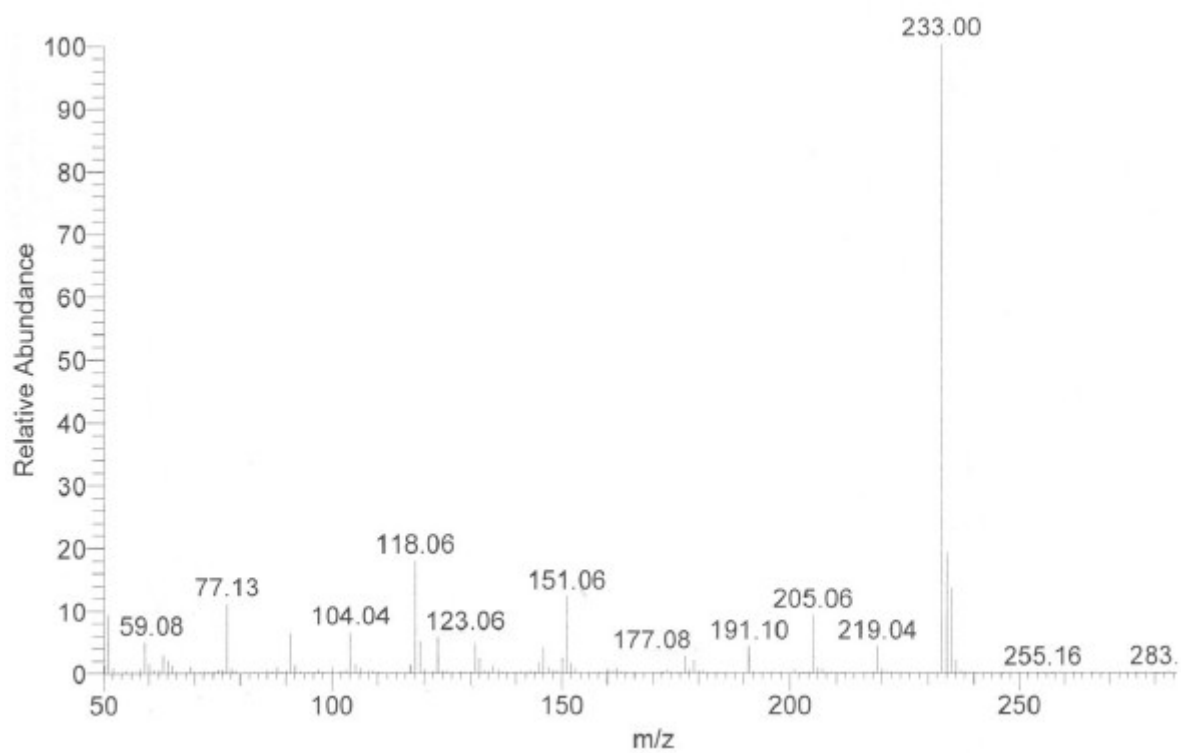
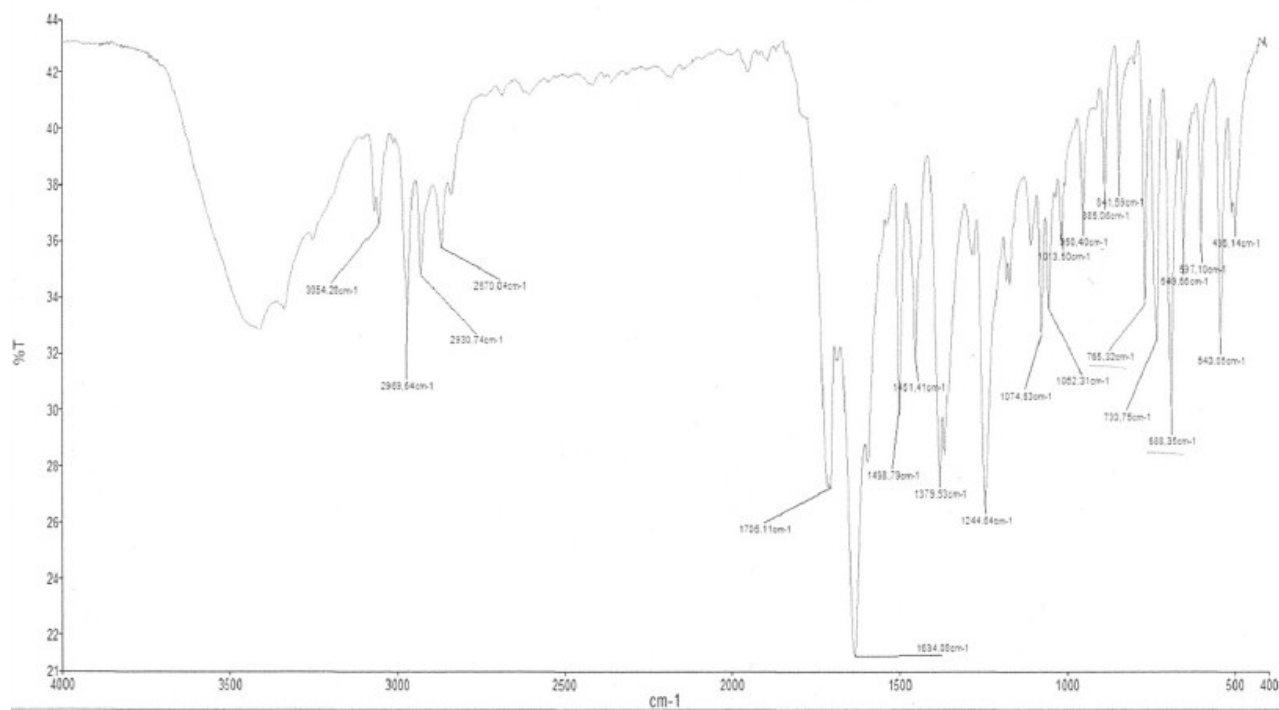
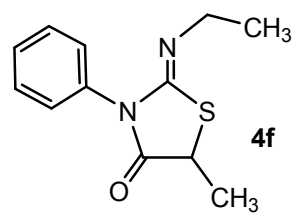


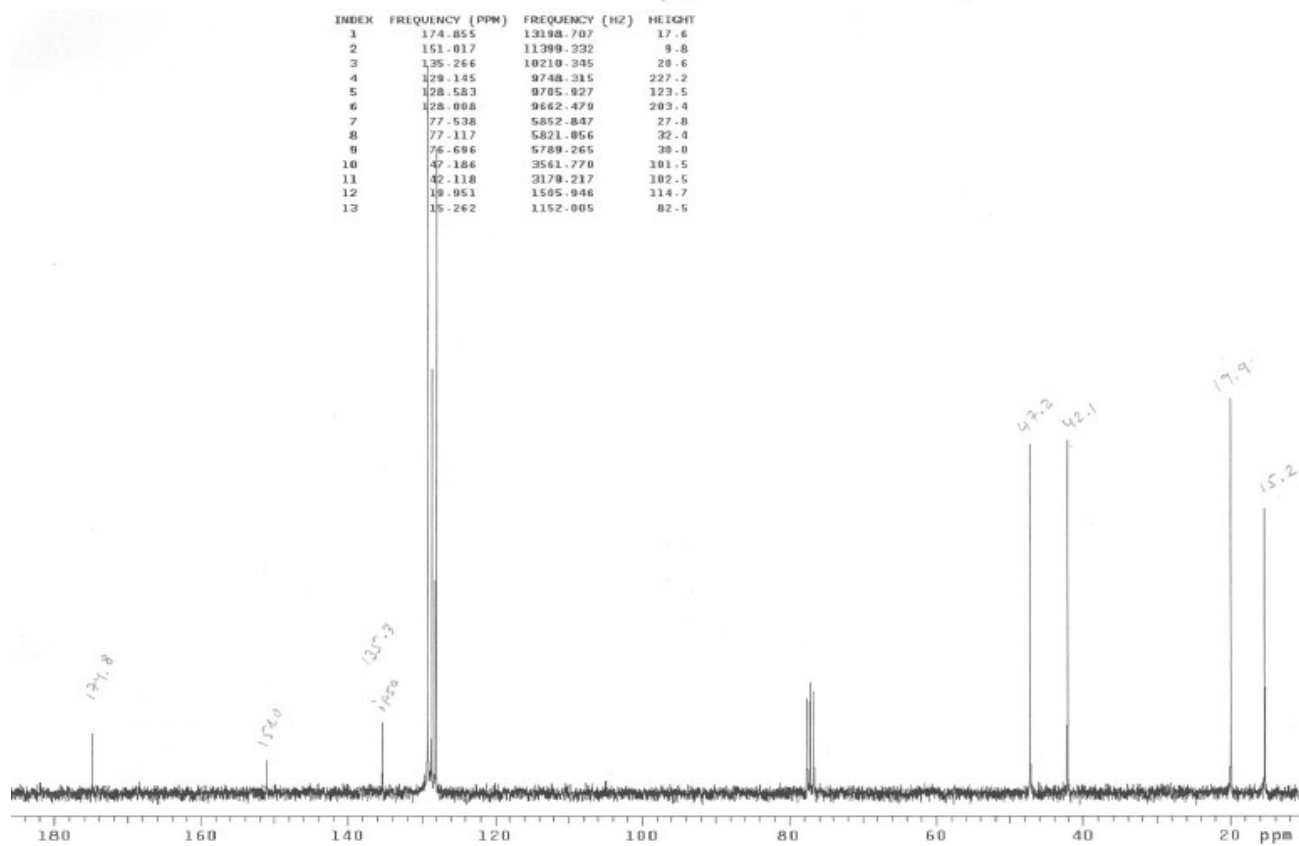
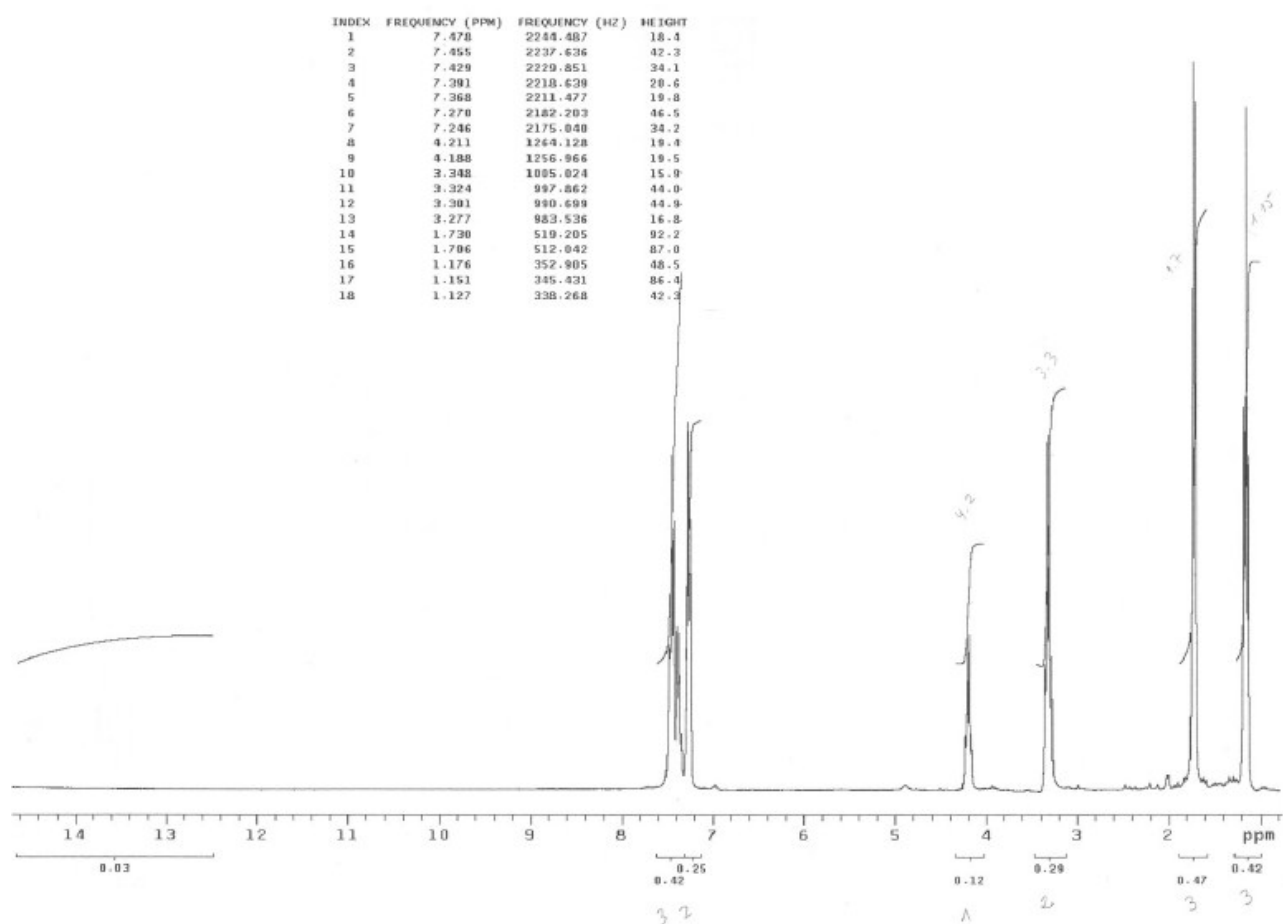
2-(*N*-Ethylimino)-5-methyl-3-phenyl-1,3-thiazolidin-4-one (4f)

SI-17/SI-18

SI-16

(IR, MS, ^1H and ^{13}C NMR)





2-(*N*-Benzylimino)-3-(dimethylamino)-5-methyl-1,3-thiazolidin-4-one (4g)

SI-19/SI-20

(MS, ^1H and ^{13}C NMR)

