

## Supplementary Information

# Tomato fruit extract: an environmentally benign catalytic medium for the synthesis of isoxazoles derivatives

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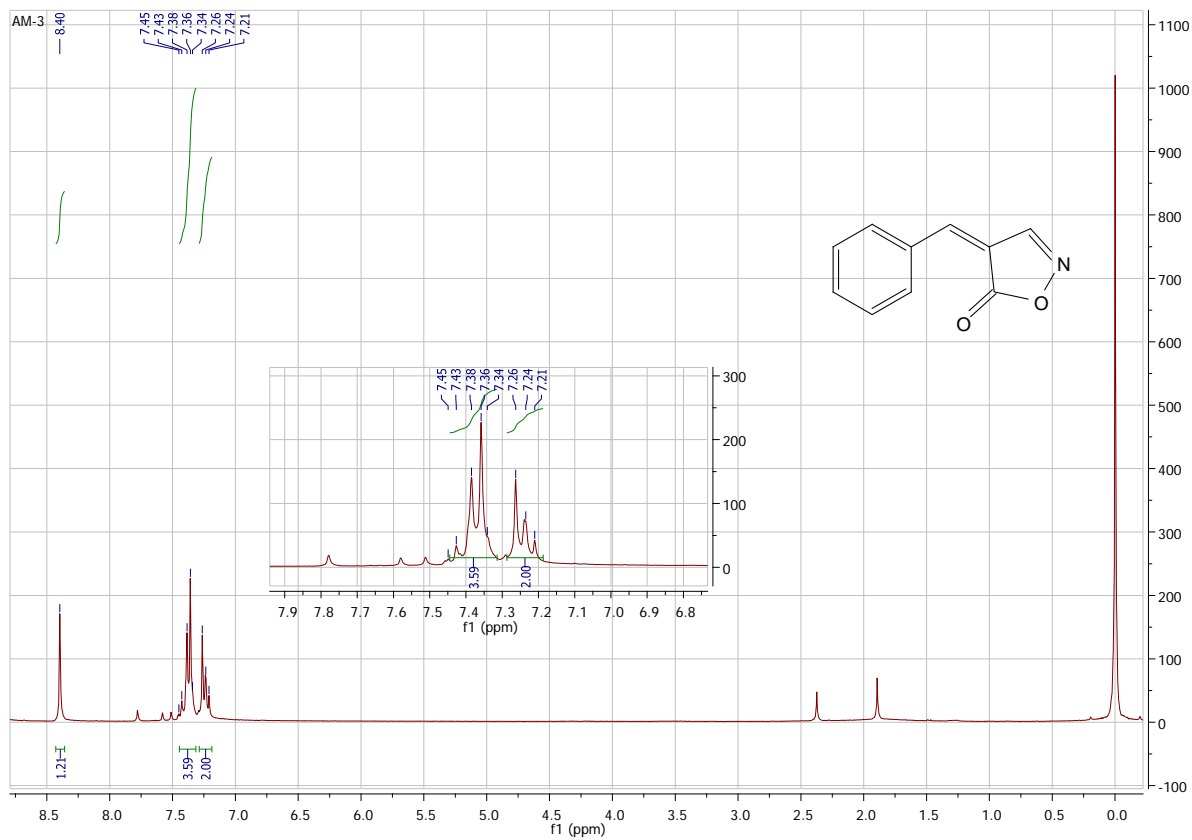
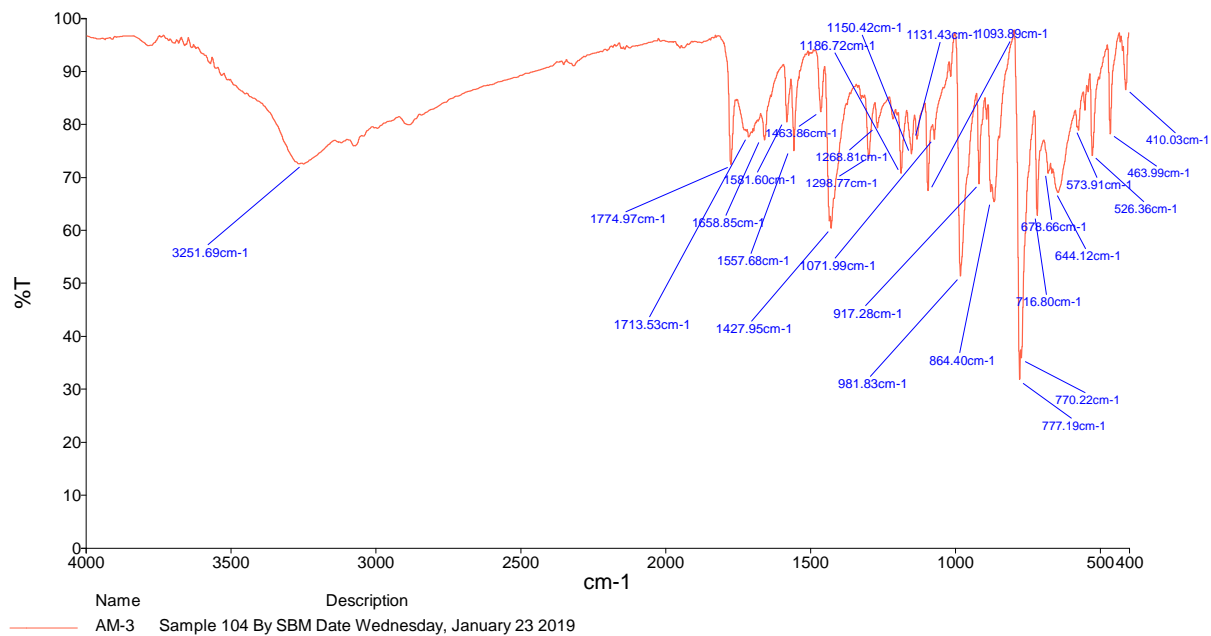
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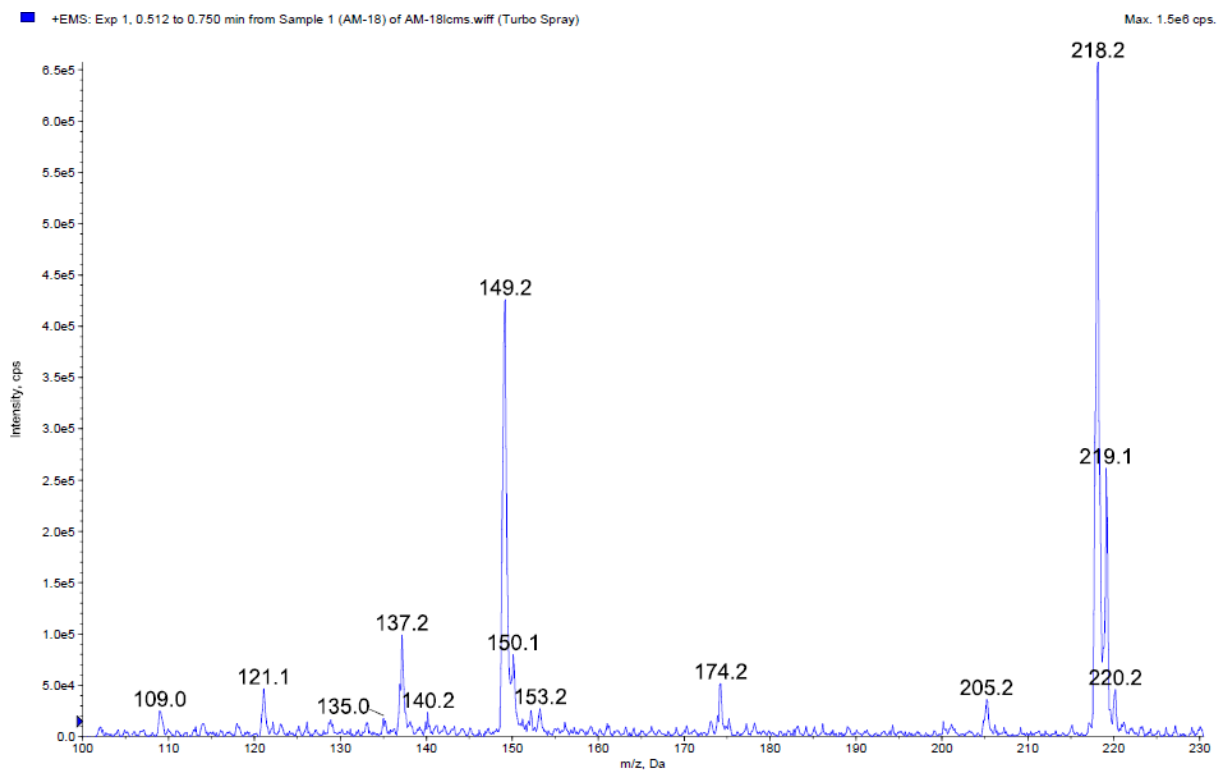
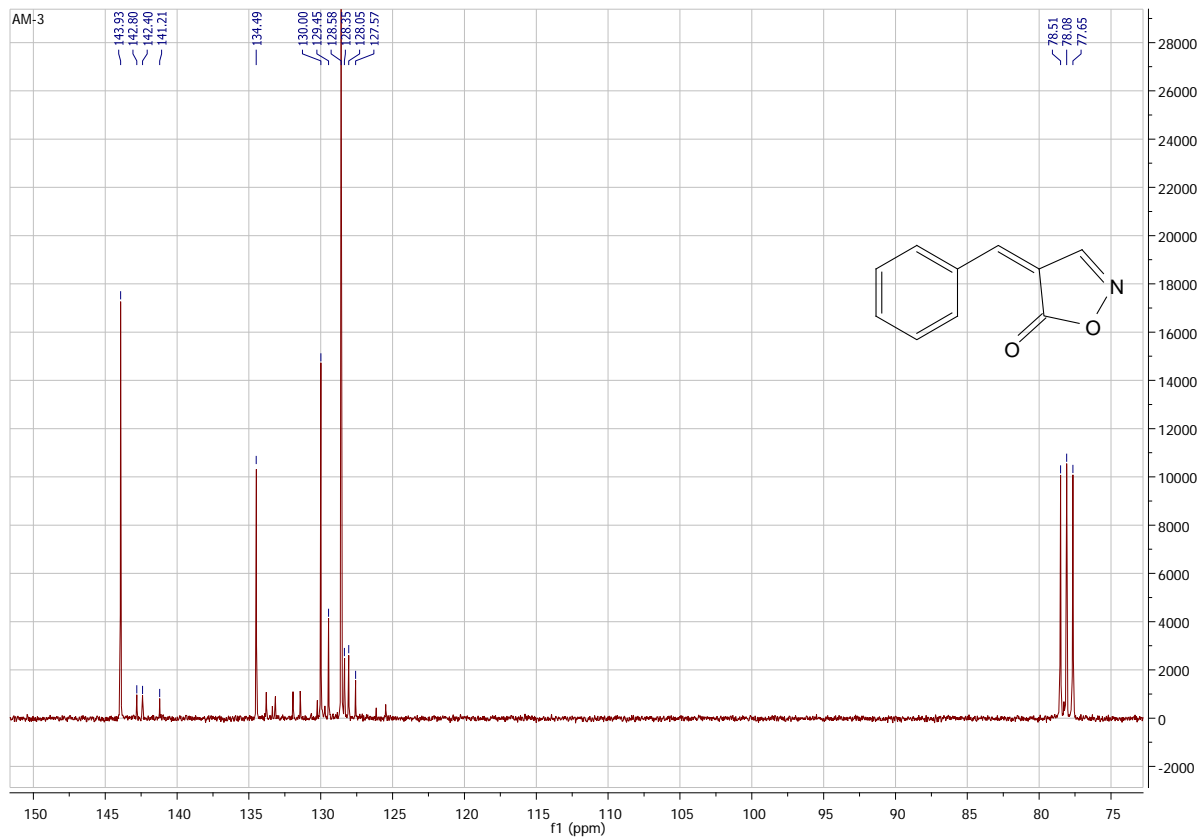
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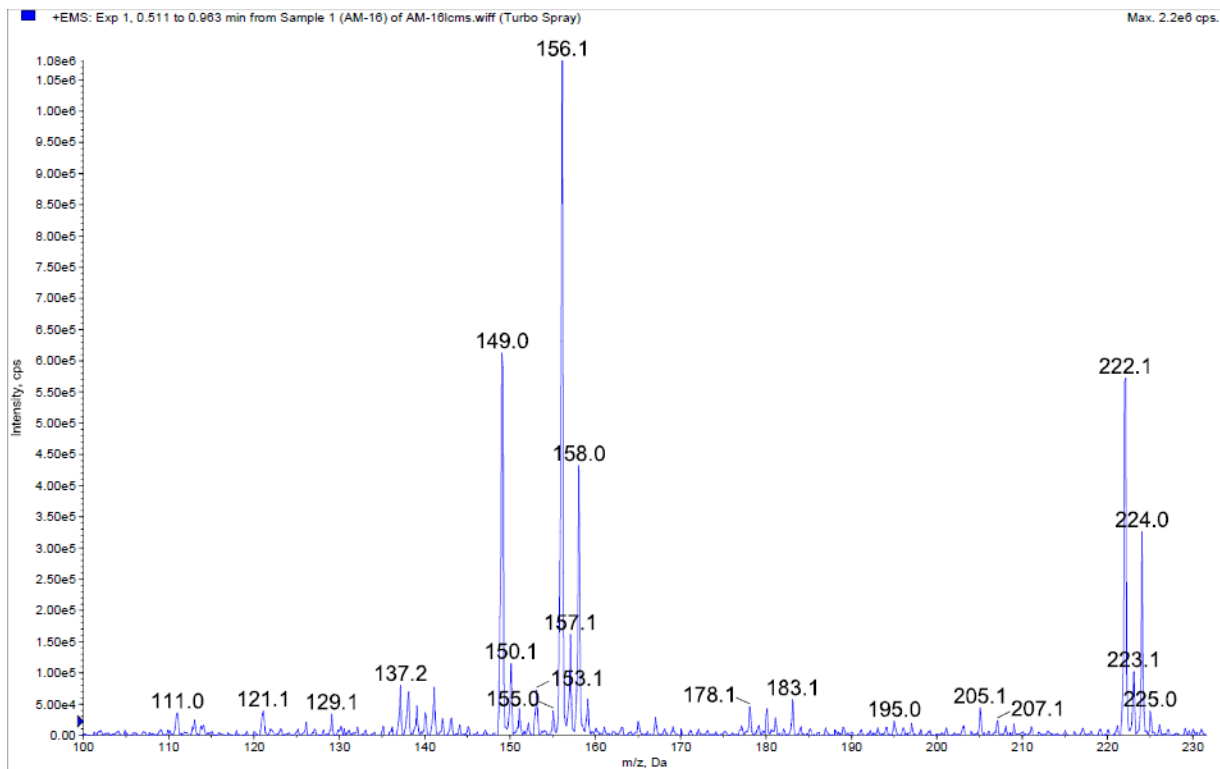
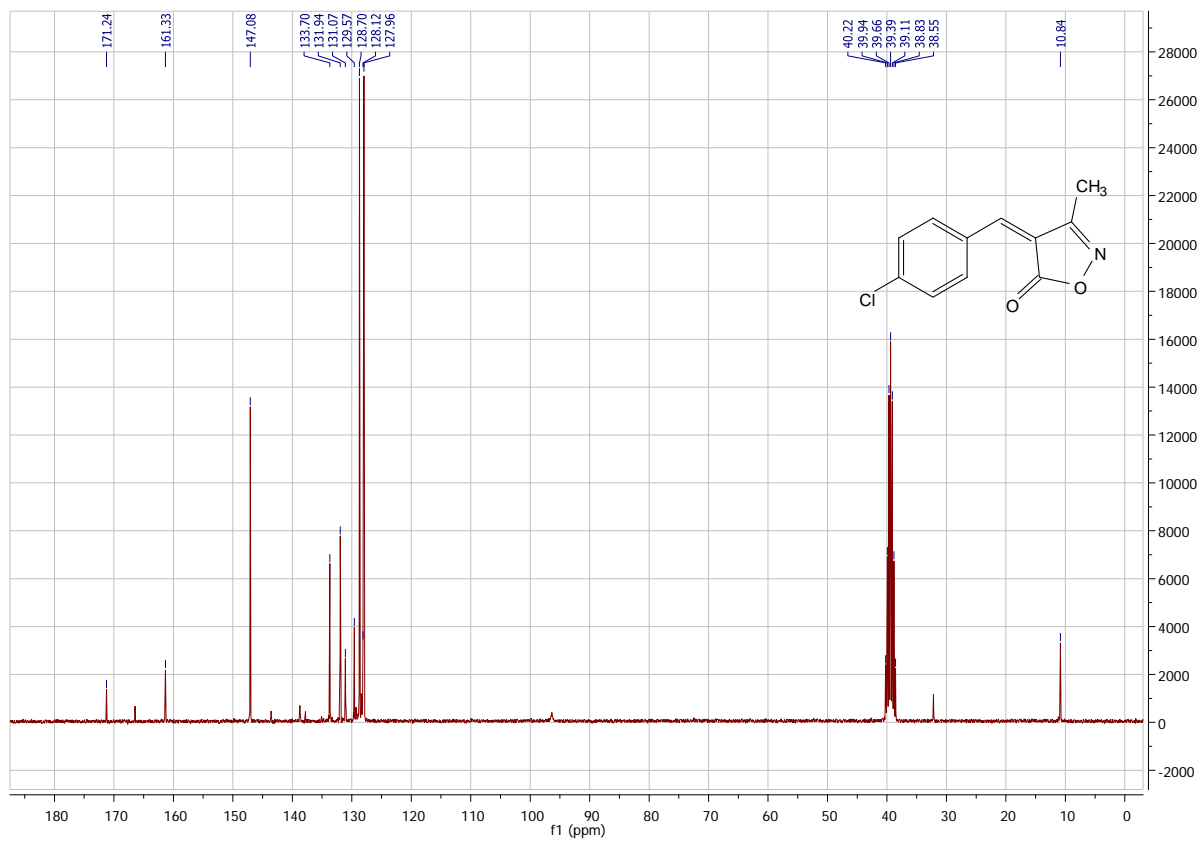
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### 1.1 (Z)-4-benzylideneisoxazol-5(4H)-one (4a):

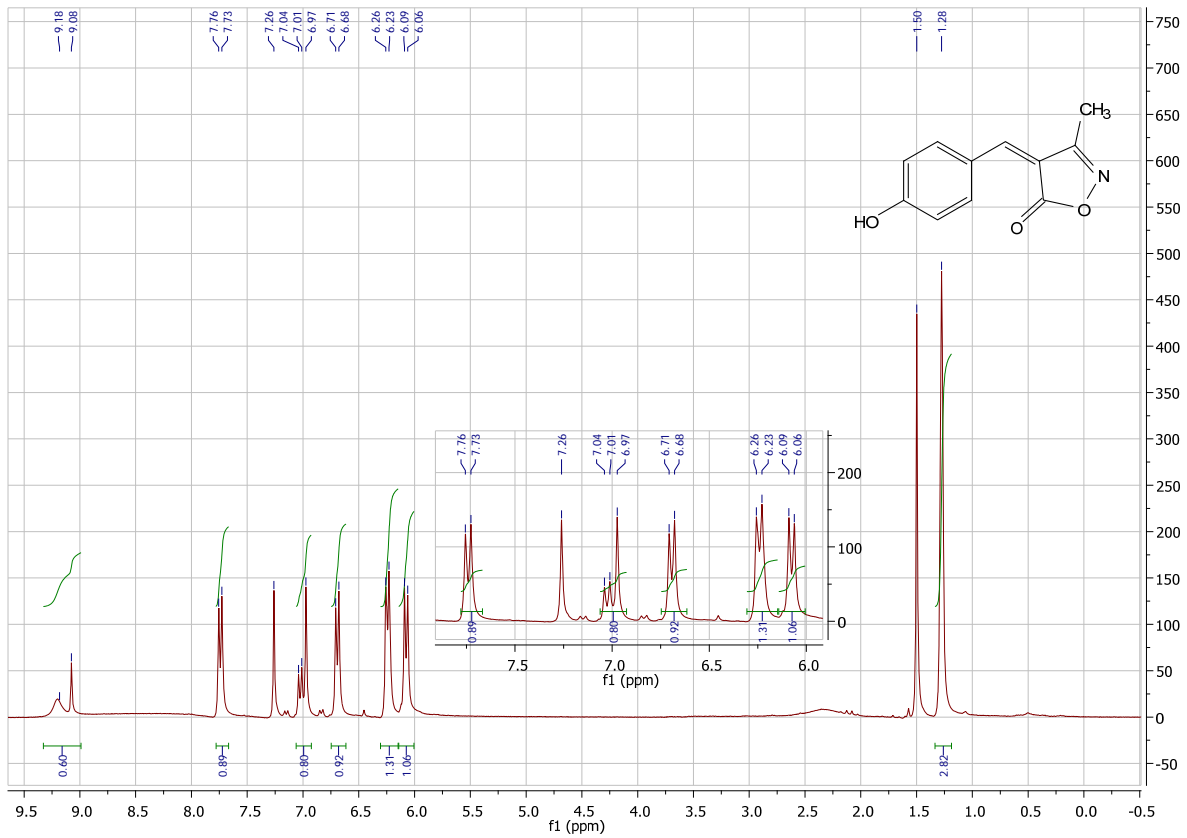
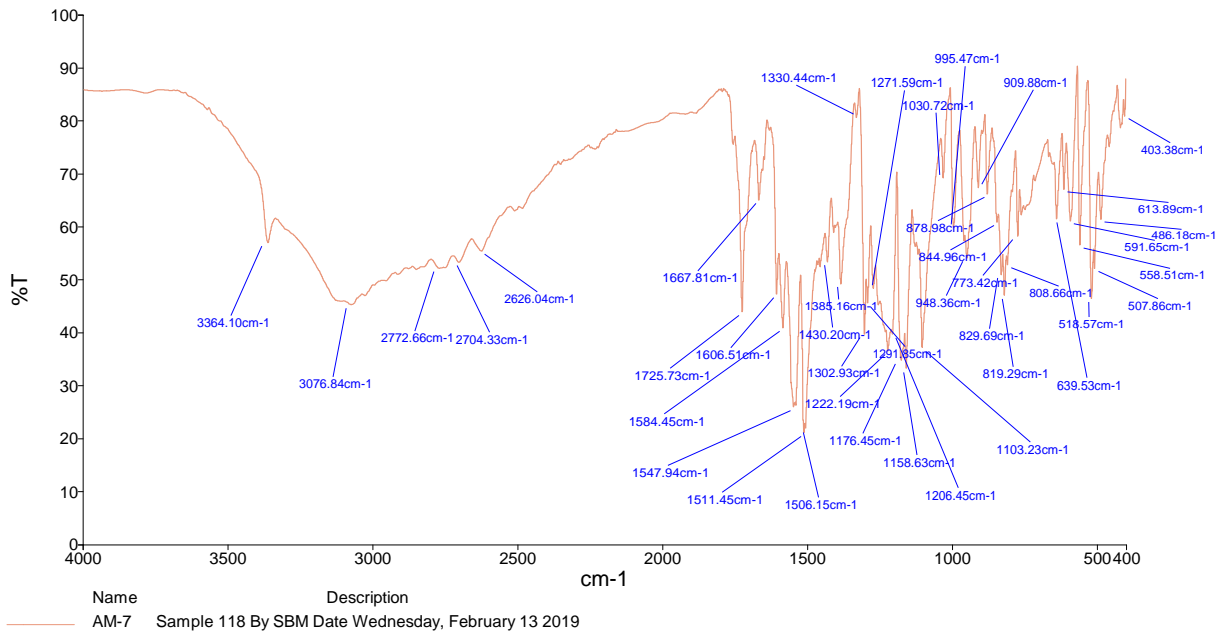


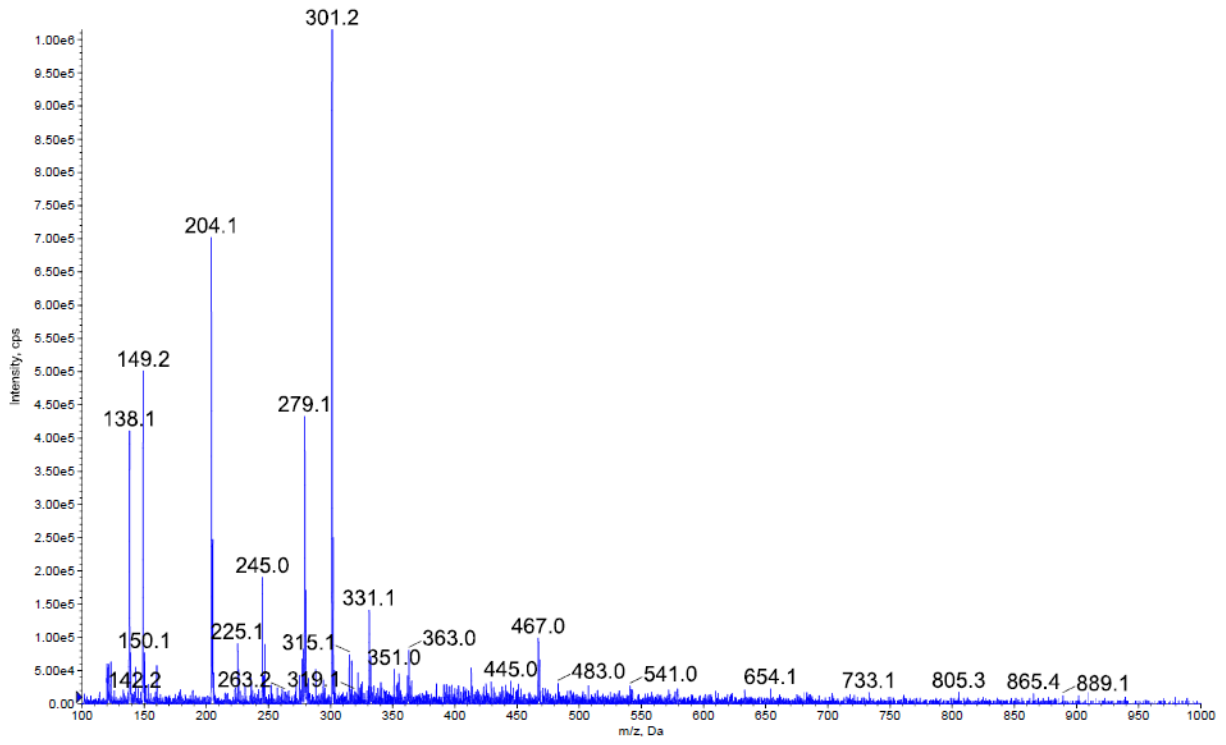




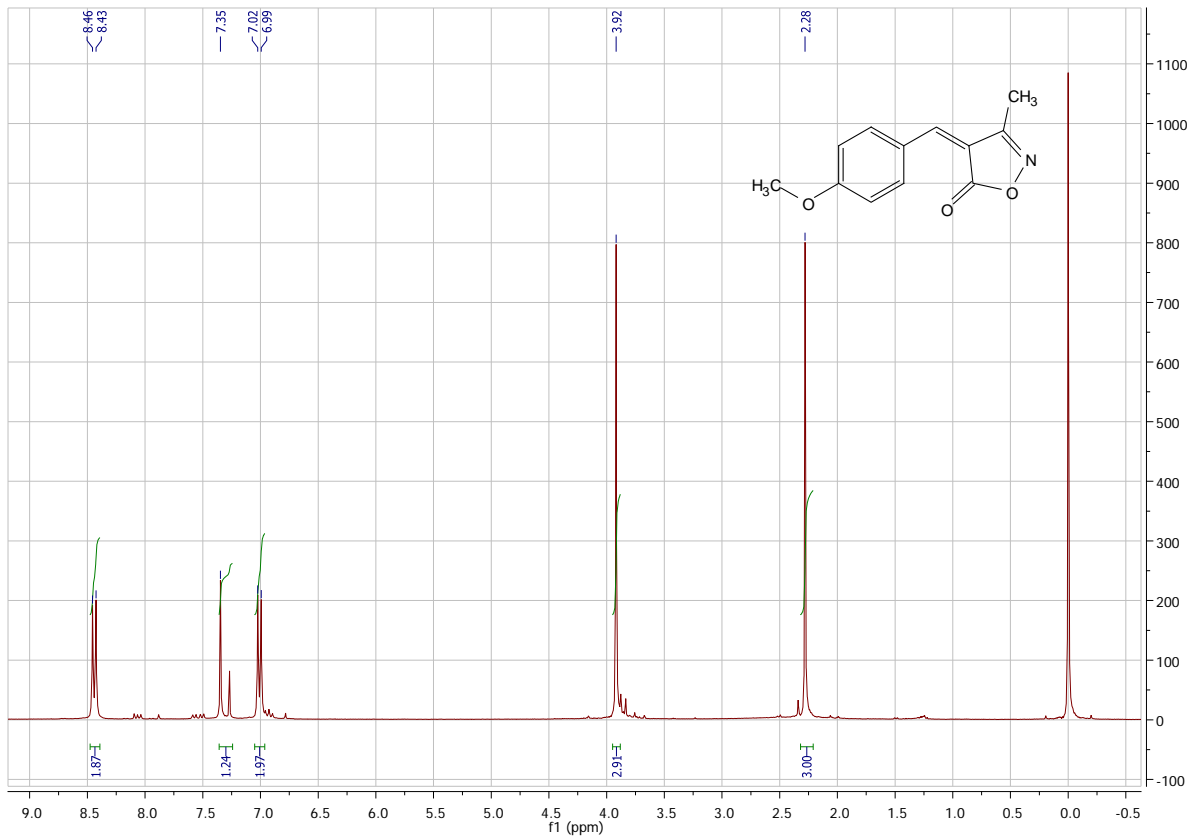
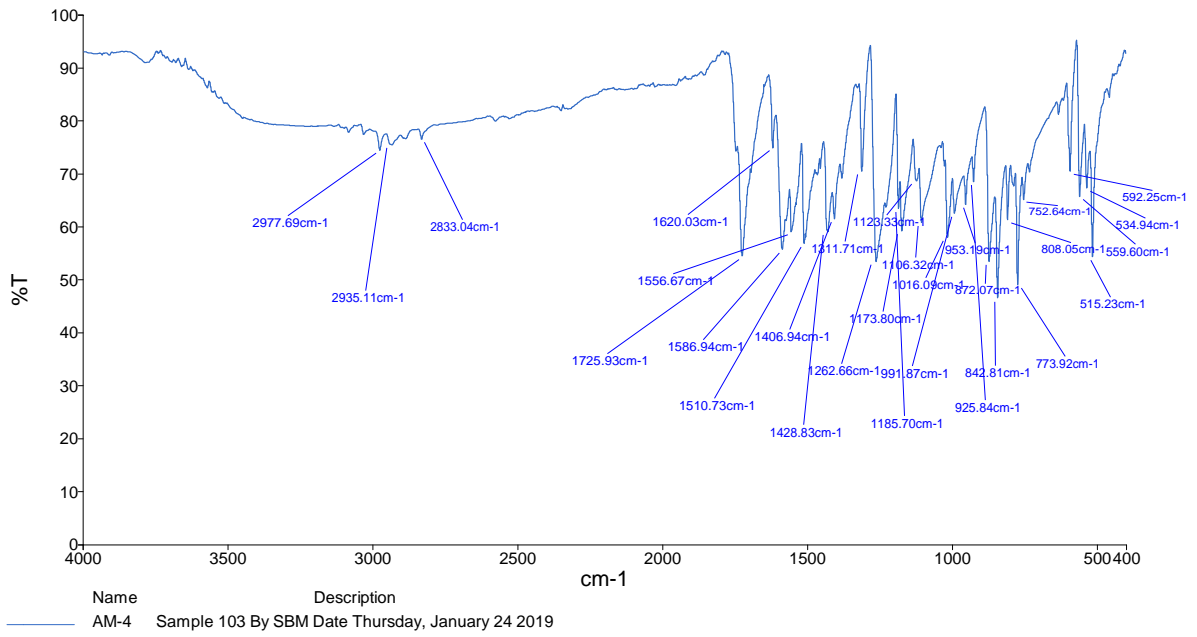


**1.3 (Z)-4-(4-hydroxybenzylidene)-3-methylisoxazol-5(4H)-one(4d)**

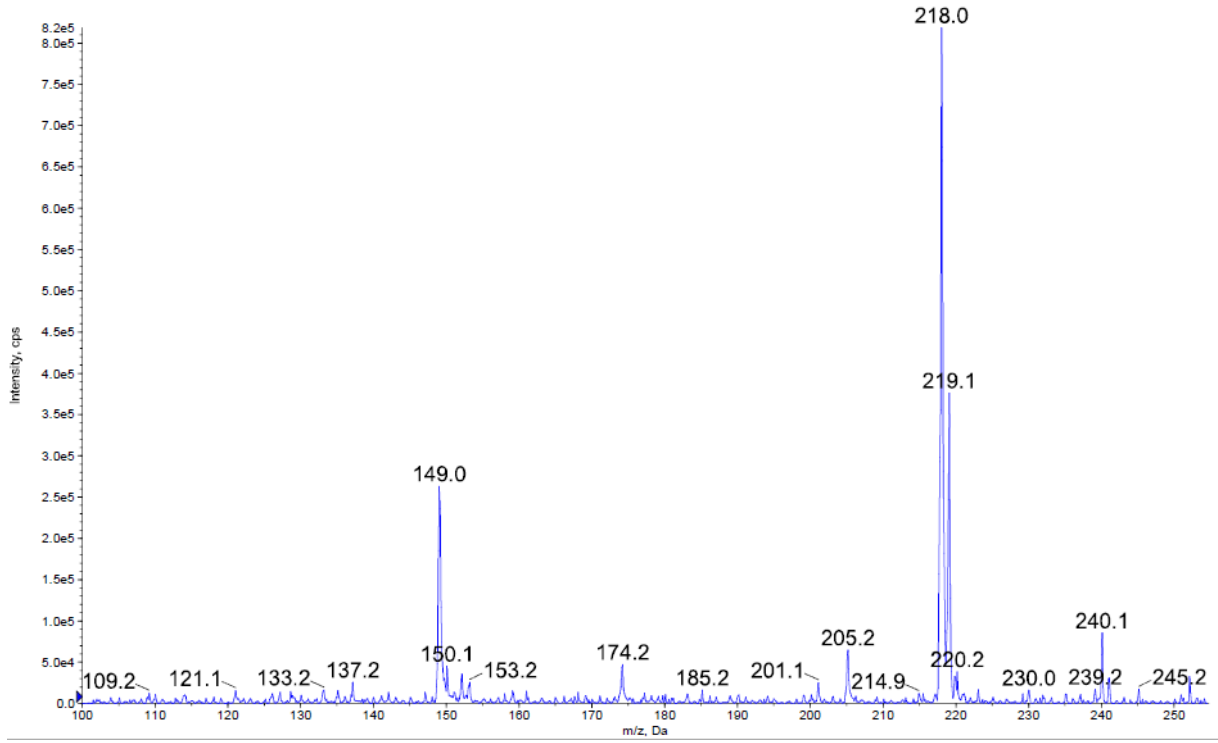




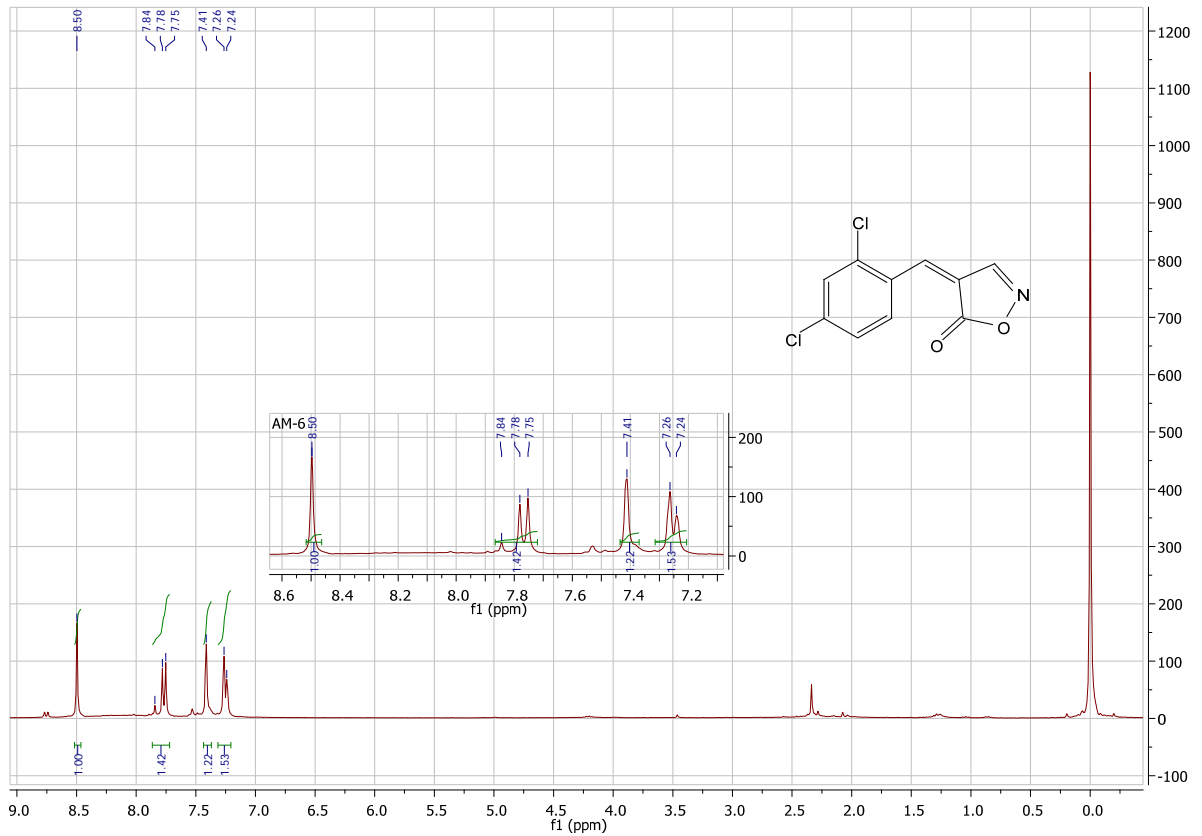
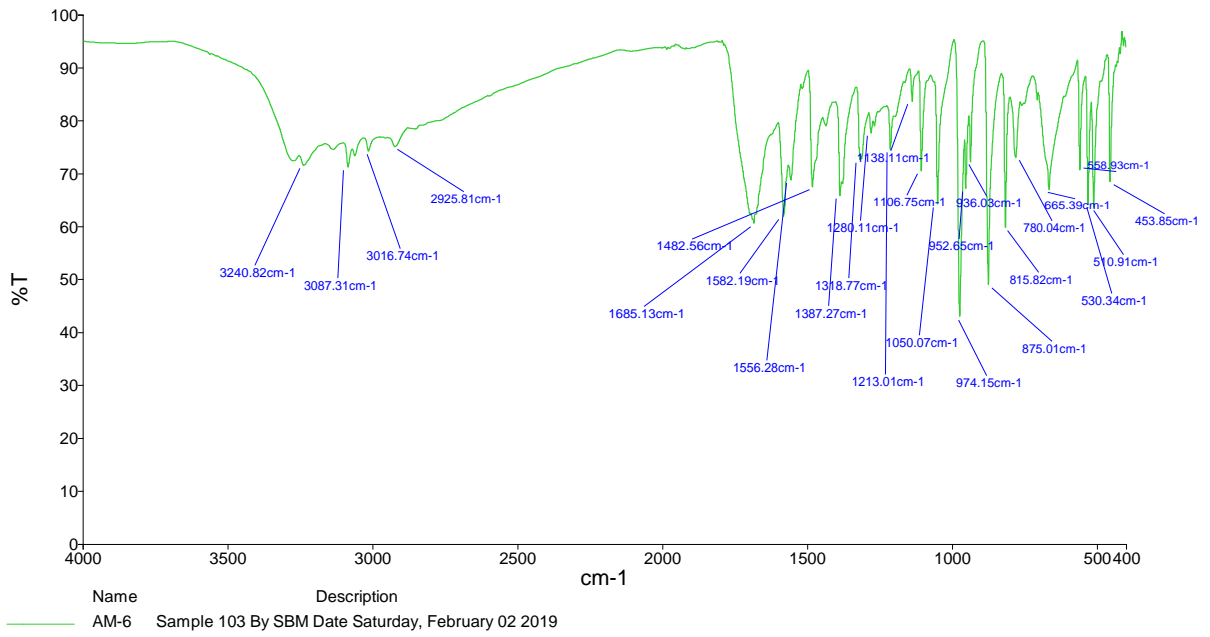
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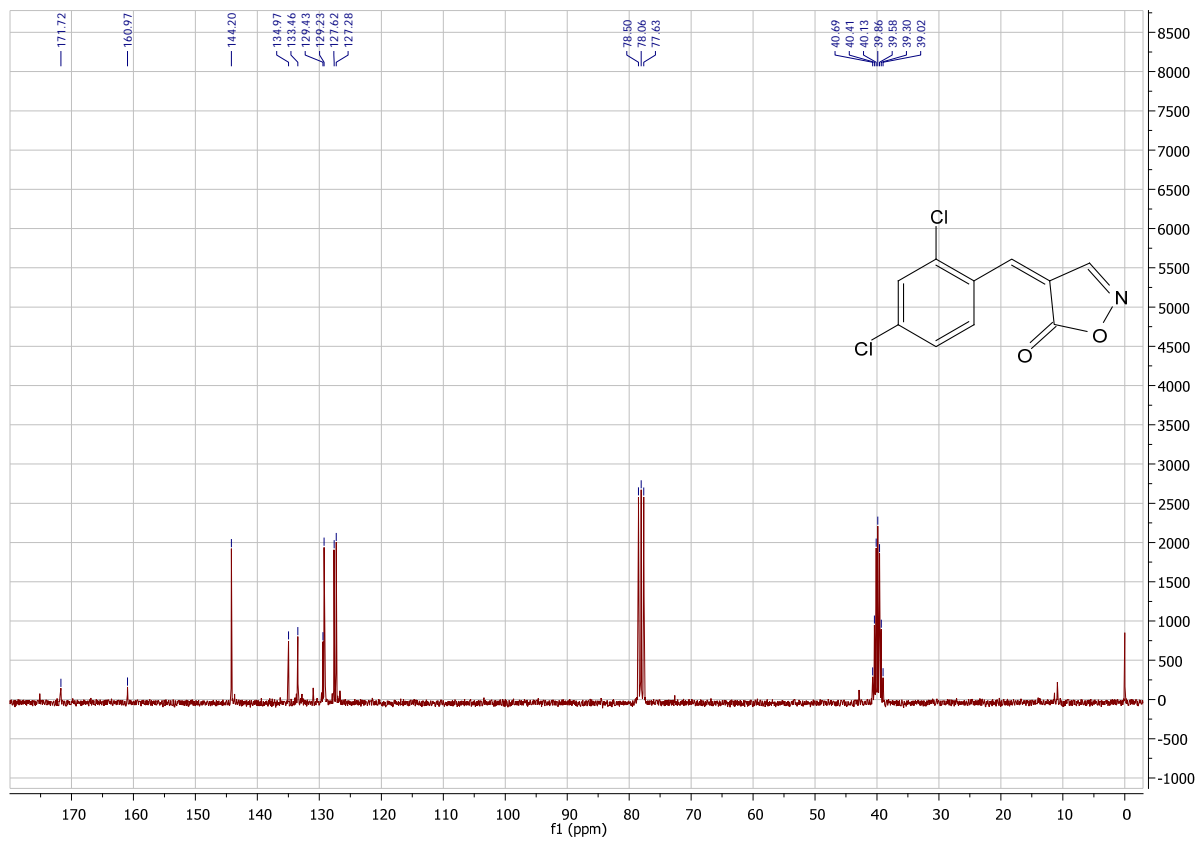




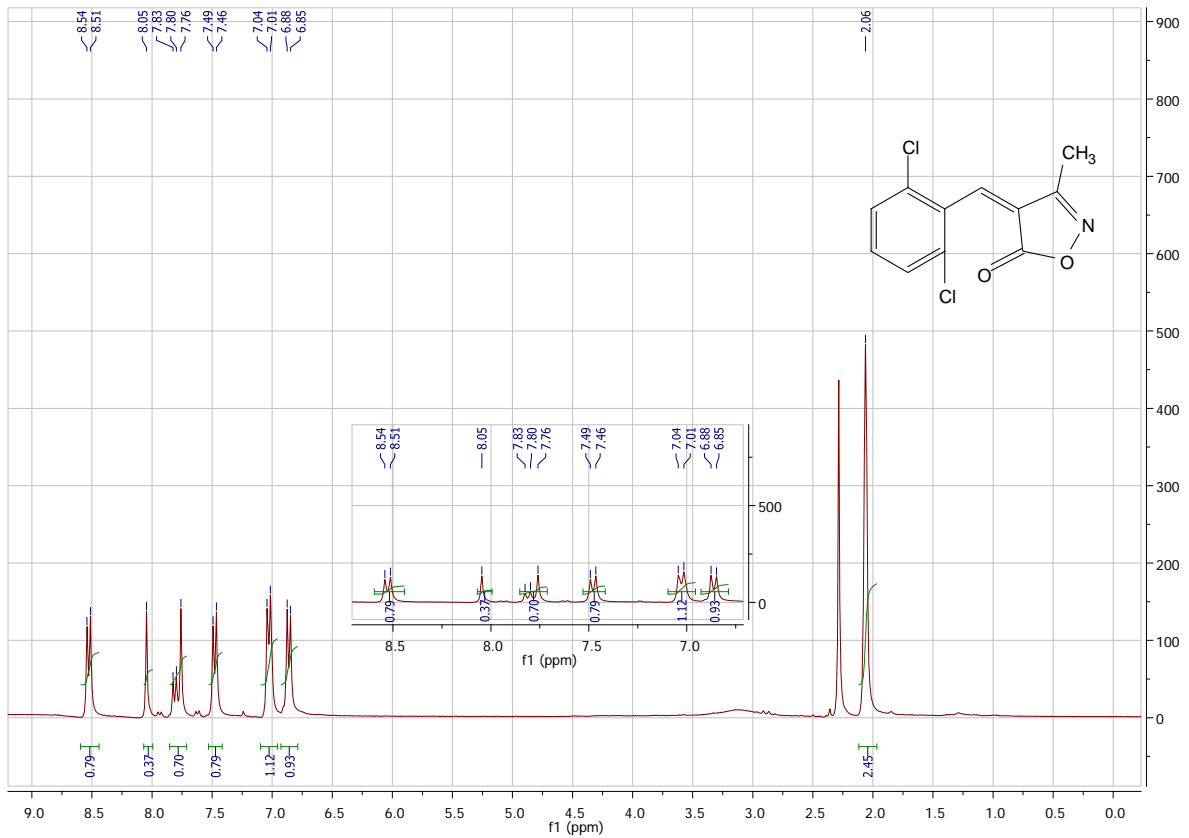
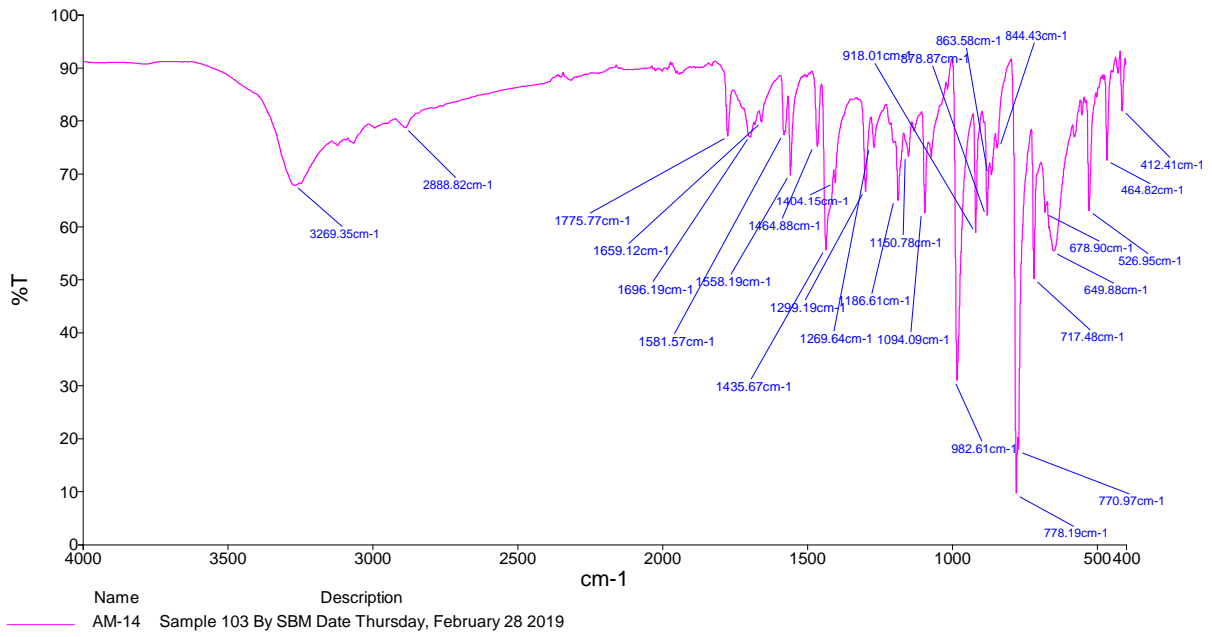


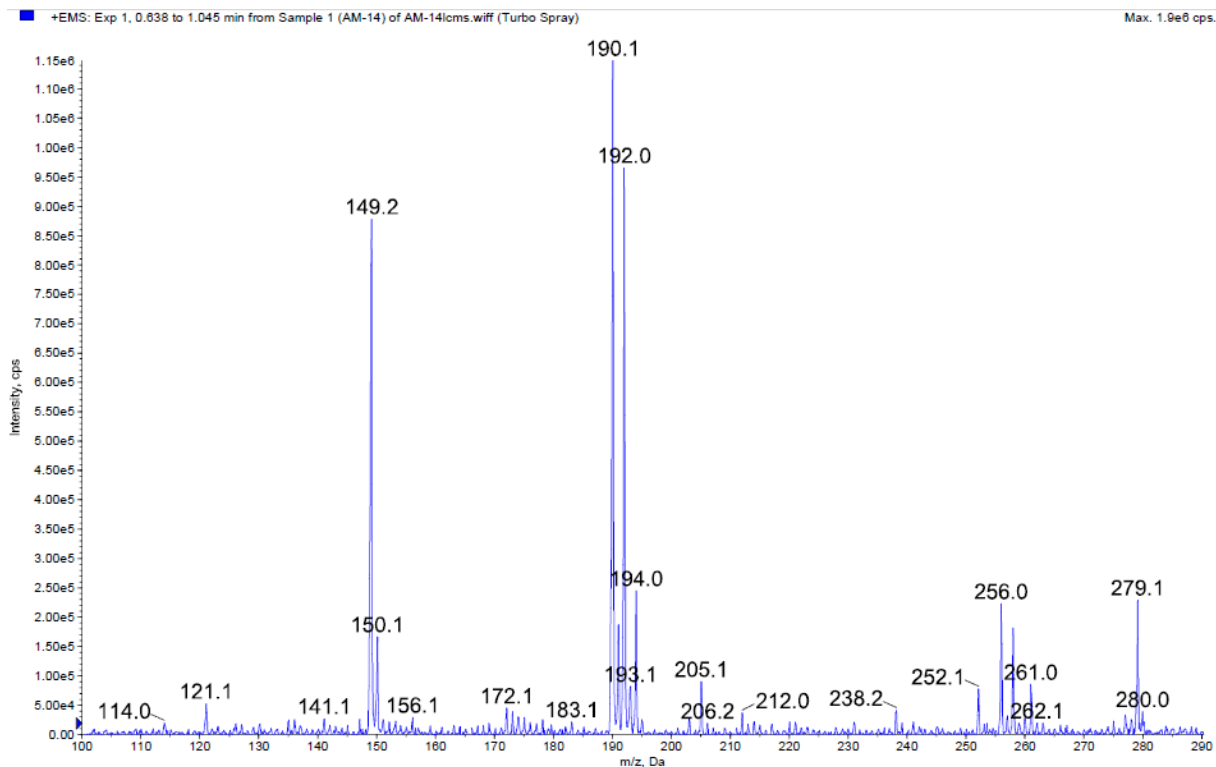
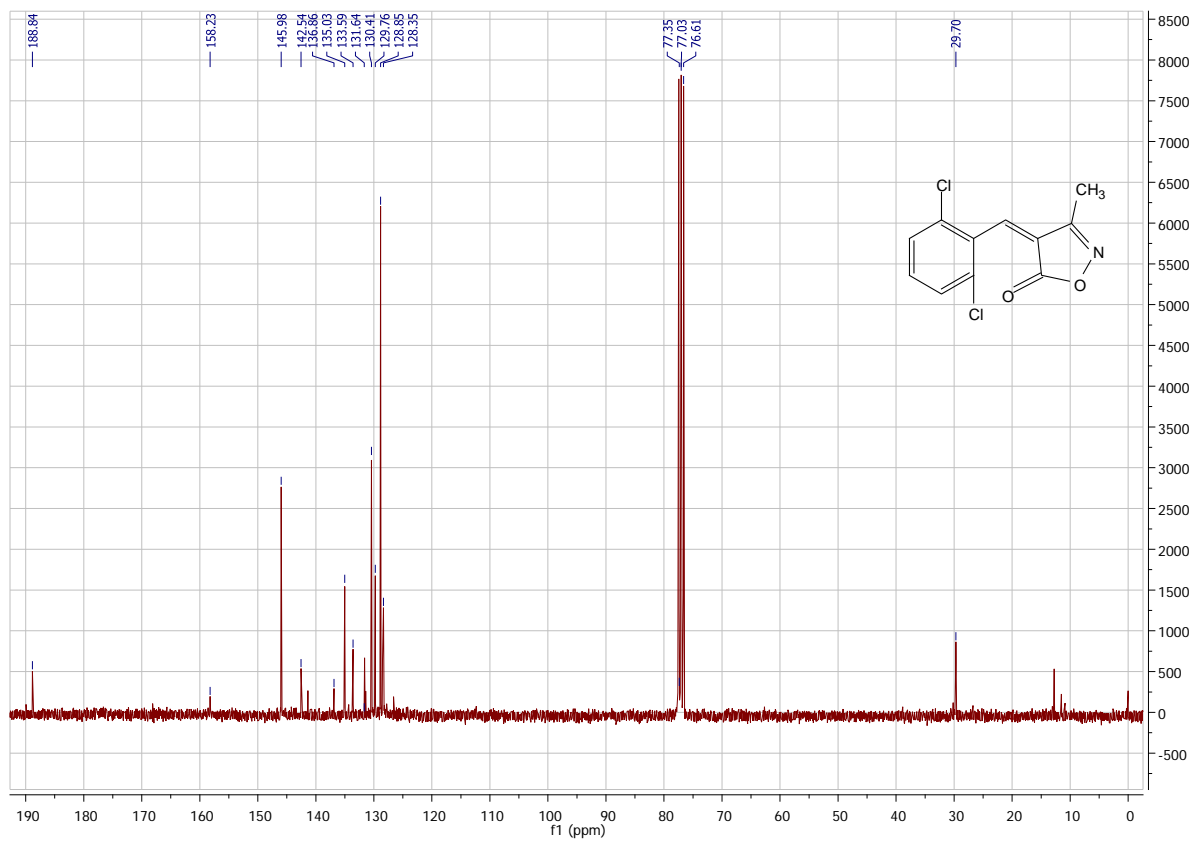
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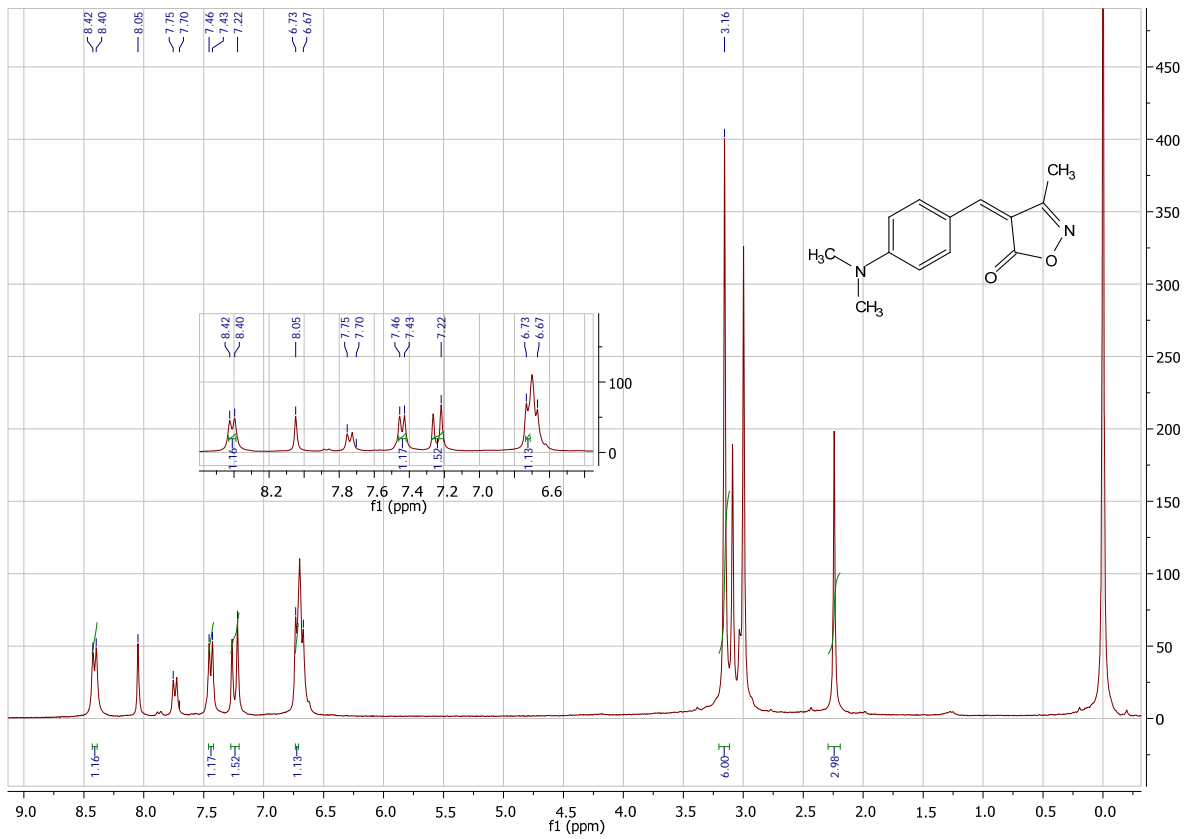
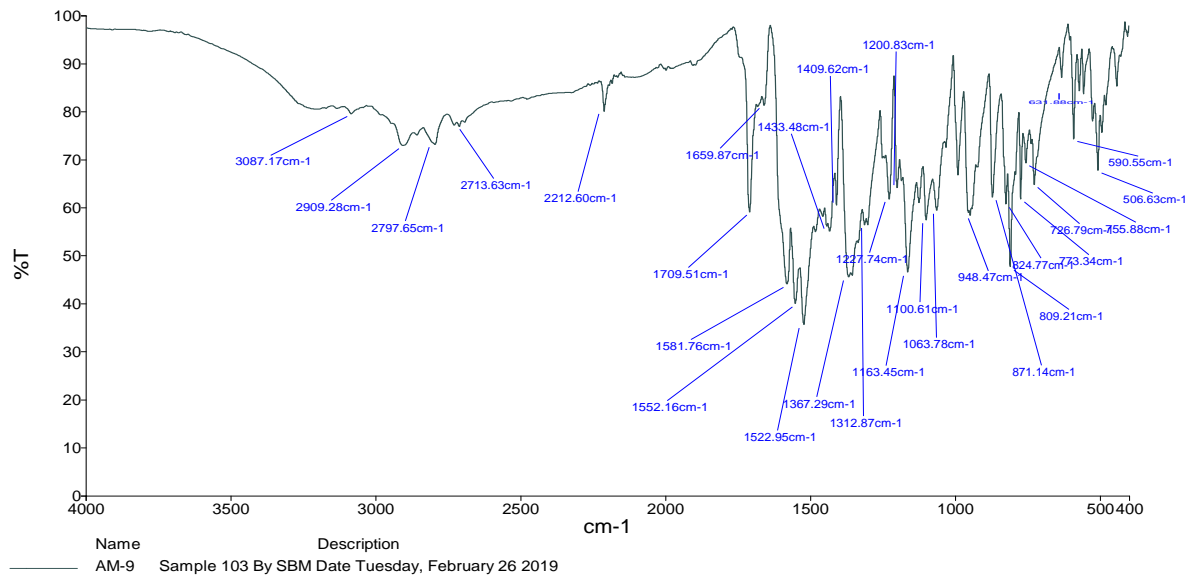


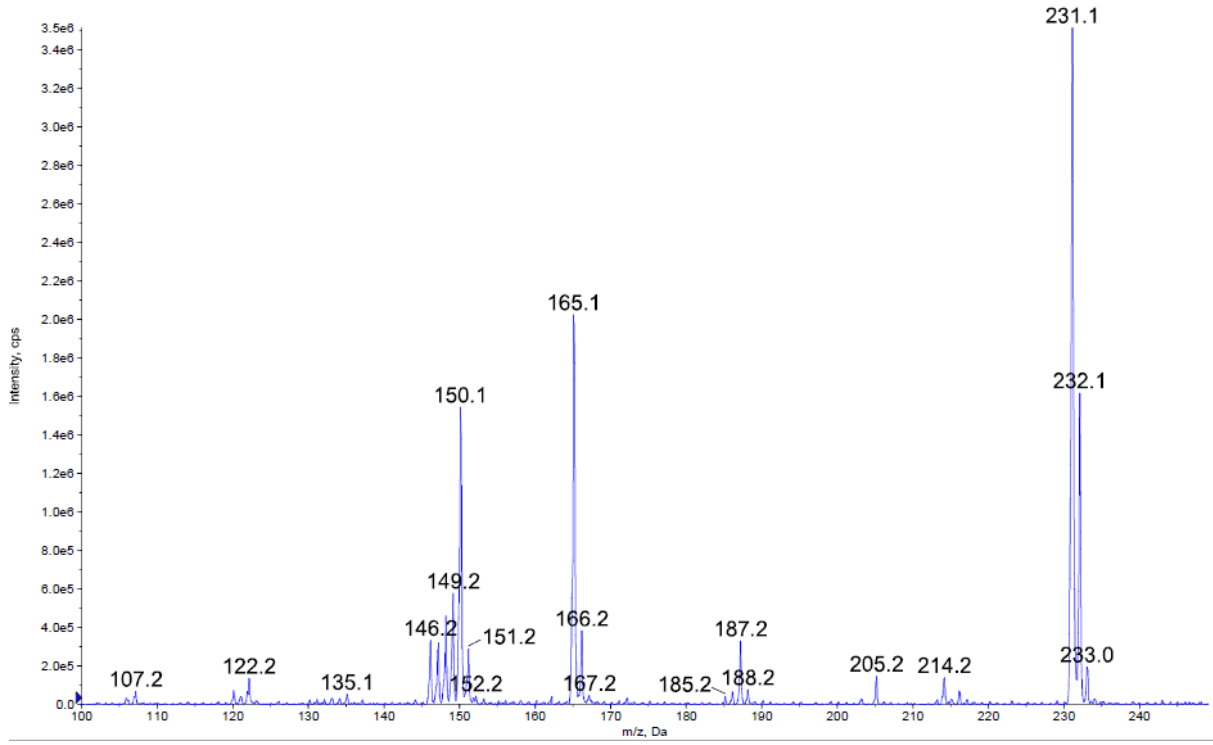
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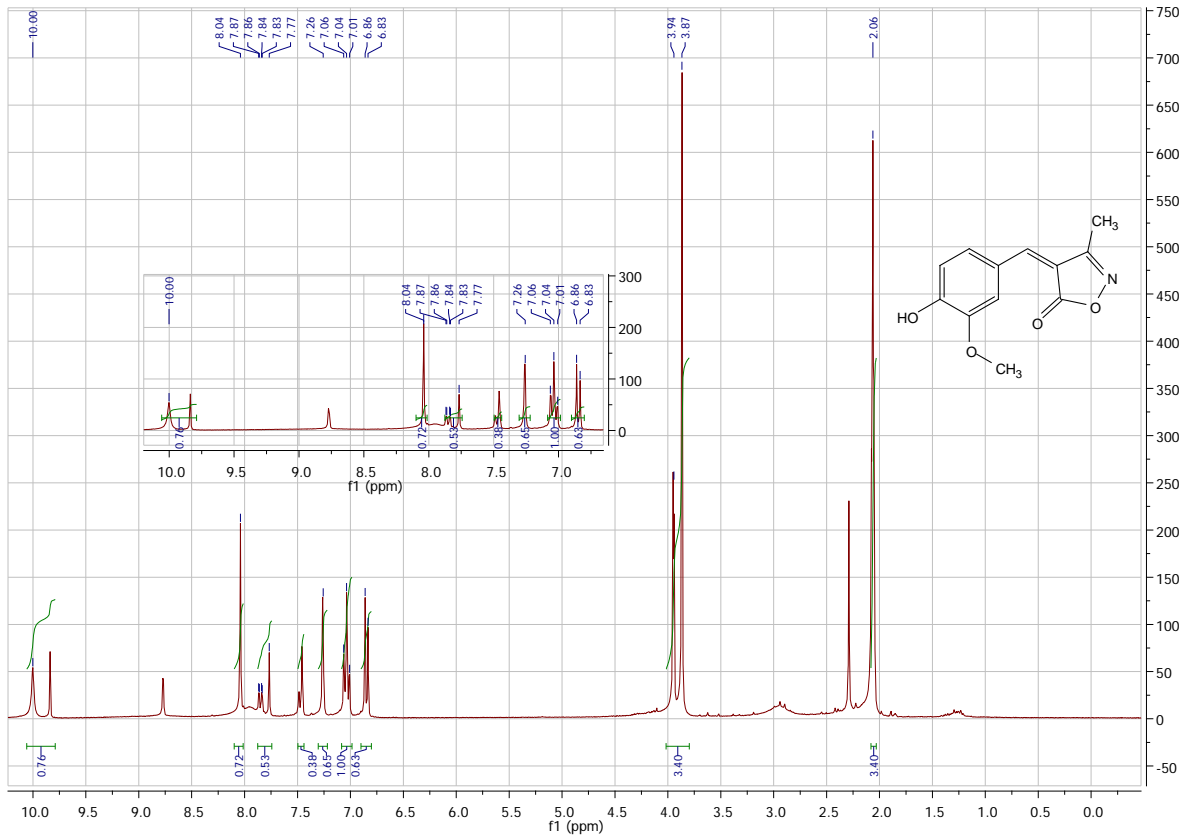
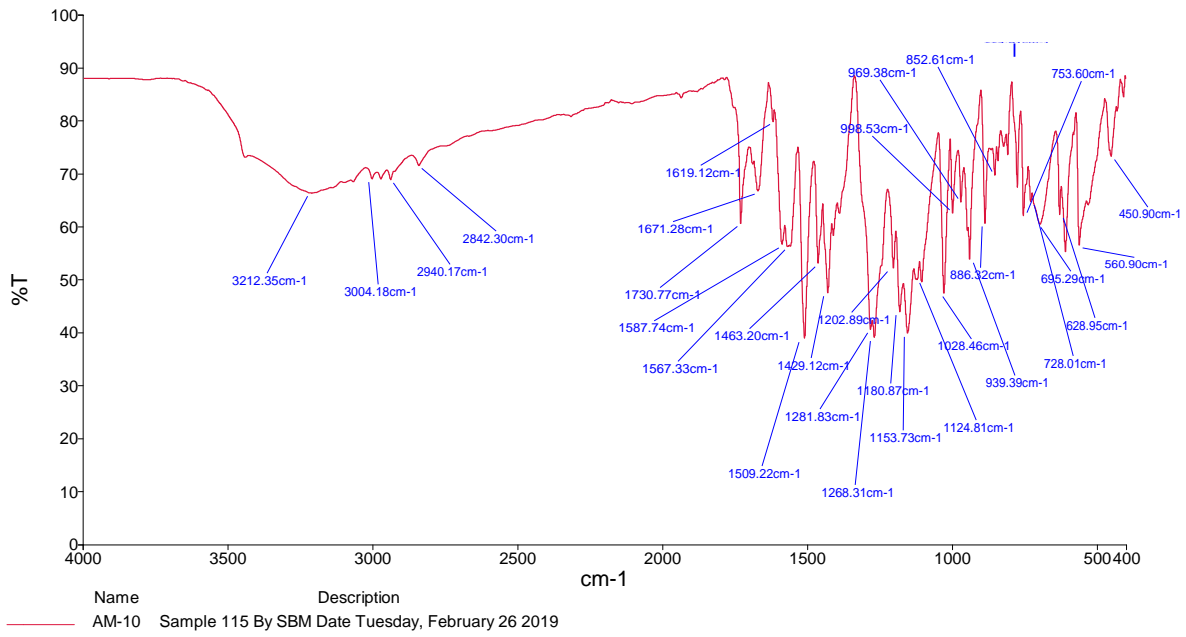


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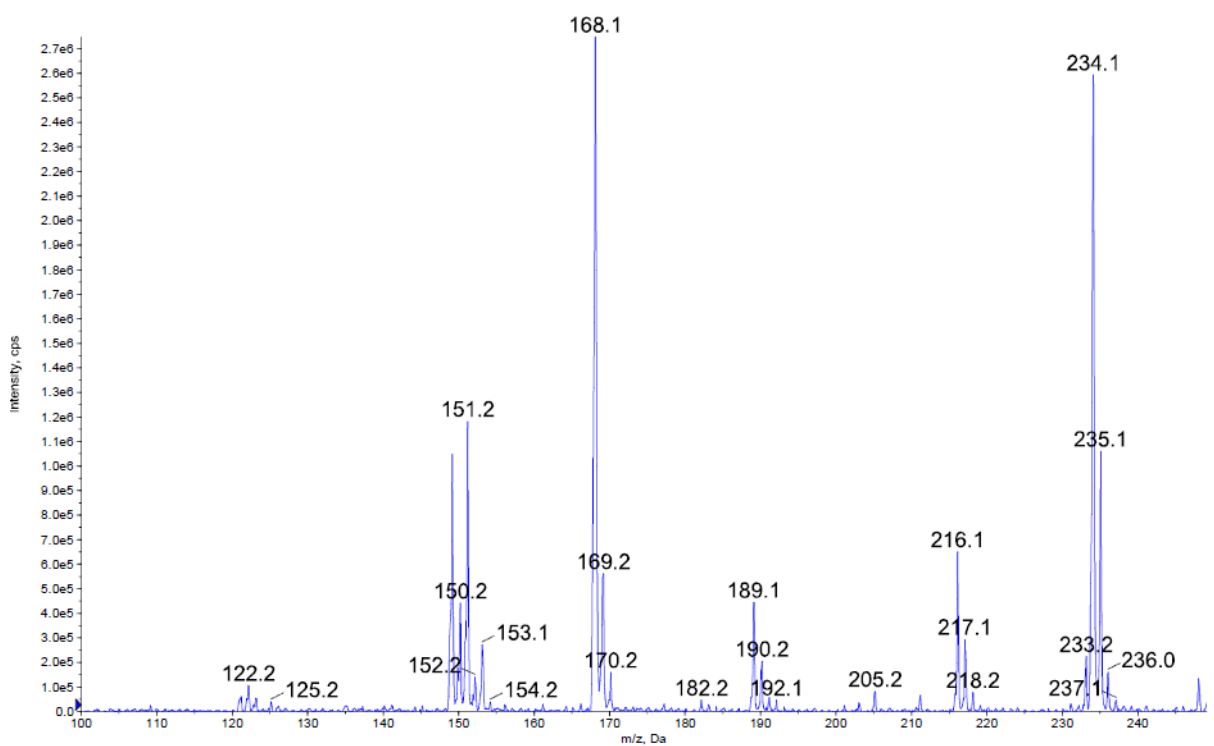




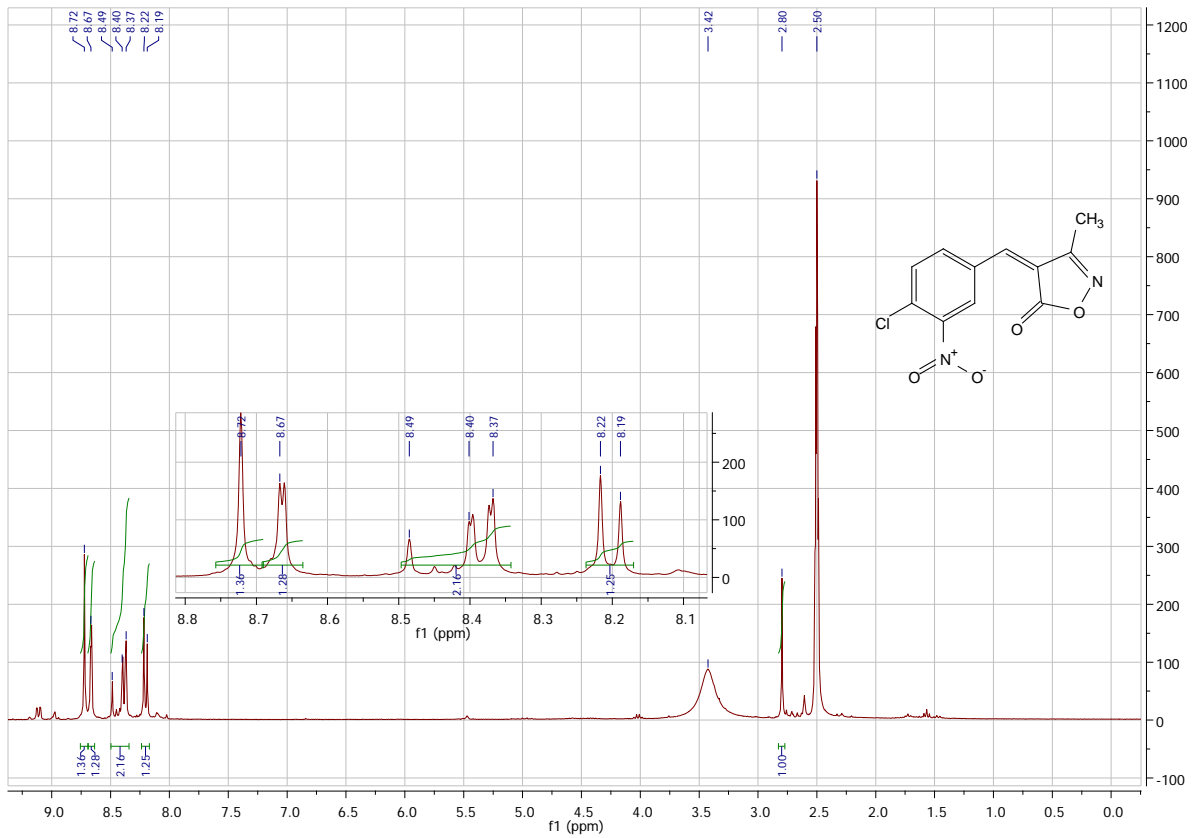
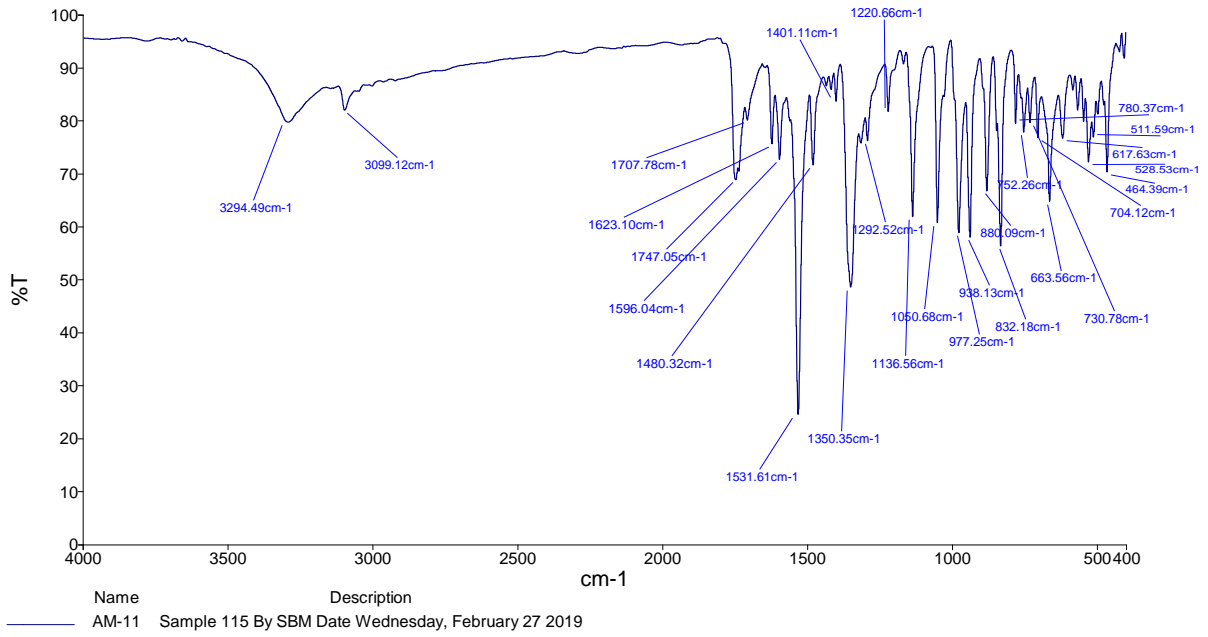
**1.8 (Z)-4-(4-hydroxy-3-methoxybenzylidene)-3-methylisoxazol-5(4H)-one(4i)**

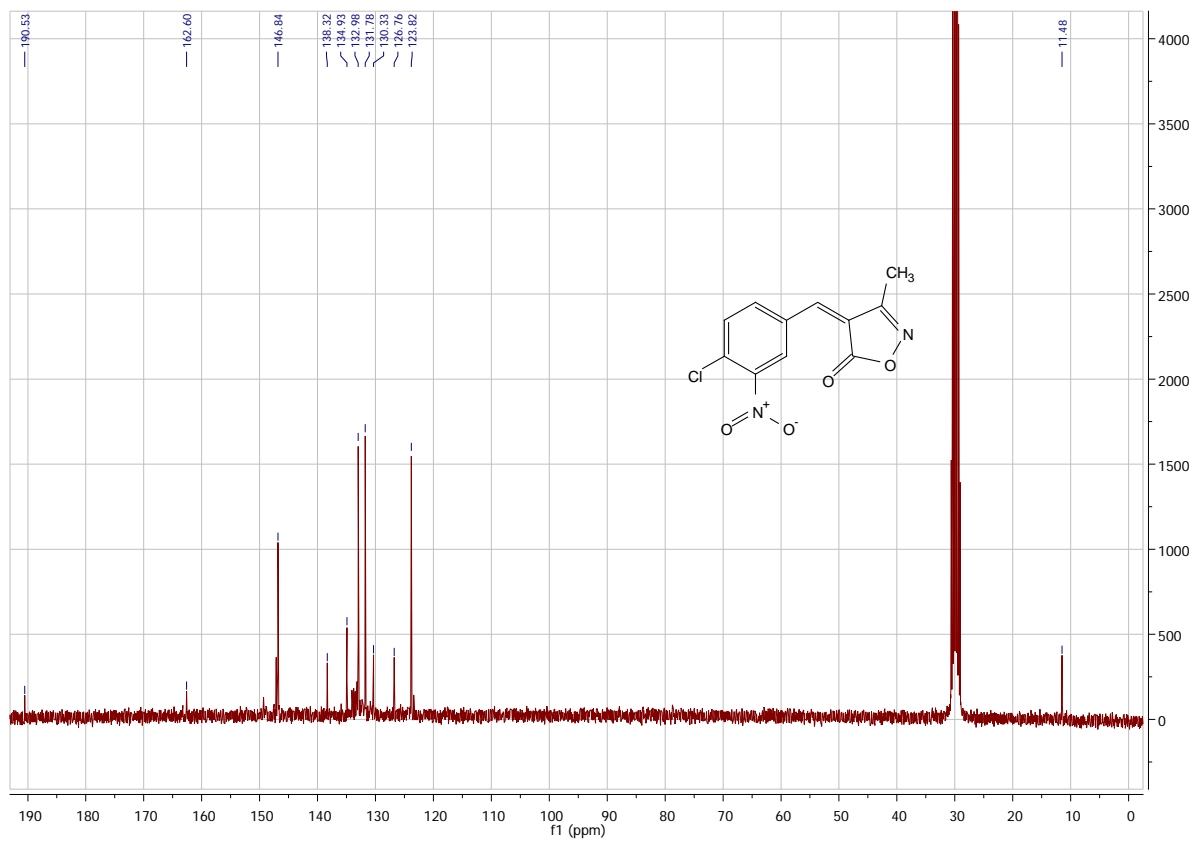






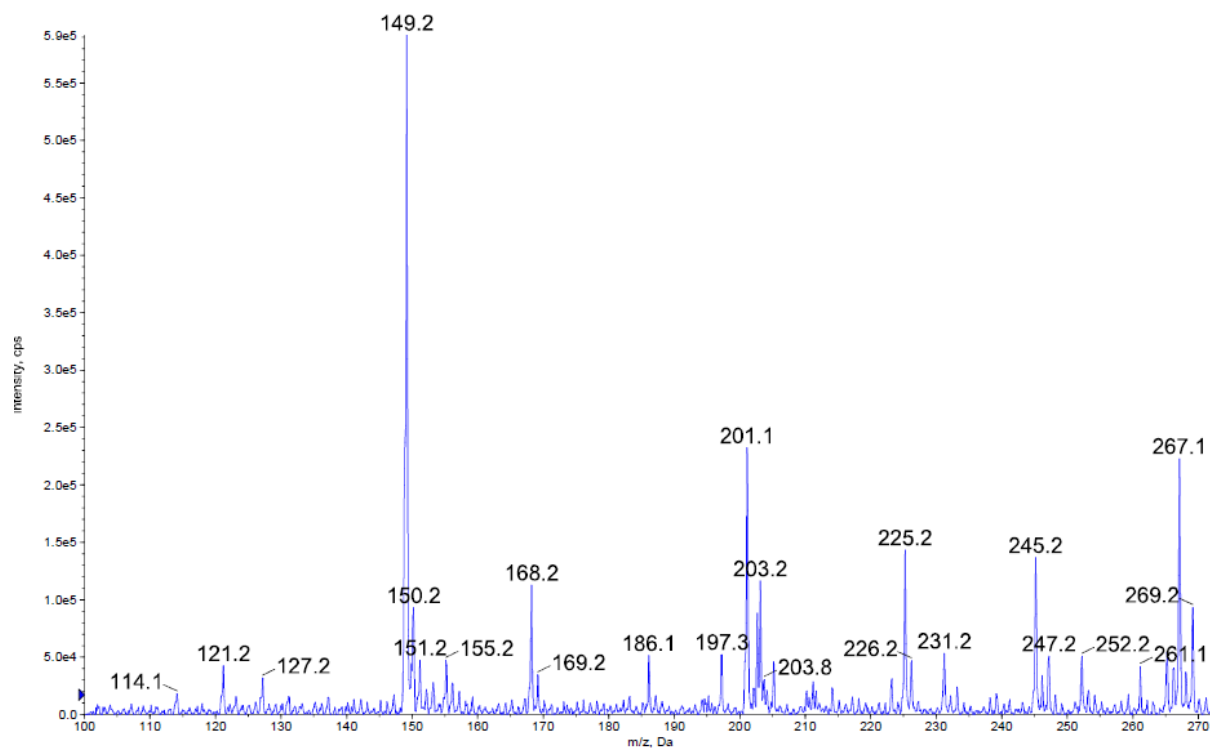
**1.9 (Z)-4-(4-chloro-3-nitrobenzylidene)-3-methylisoxazol-5(4H)-one(4j)**



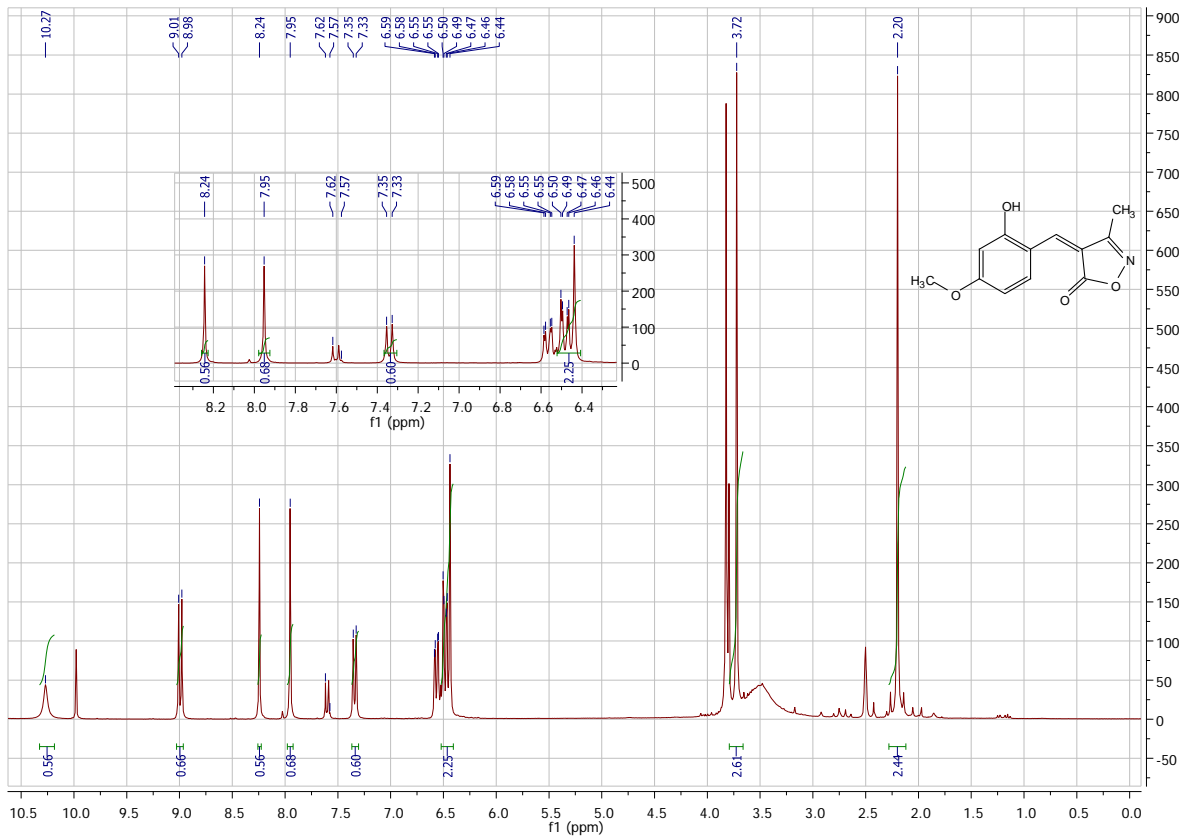
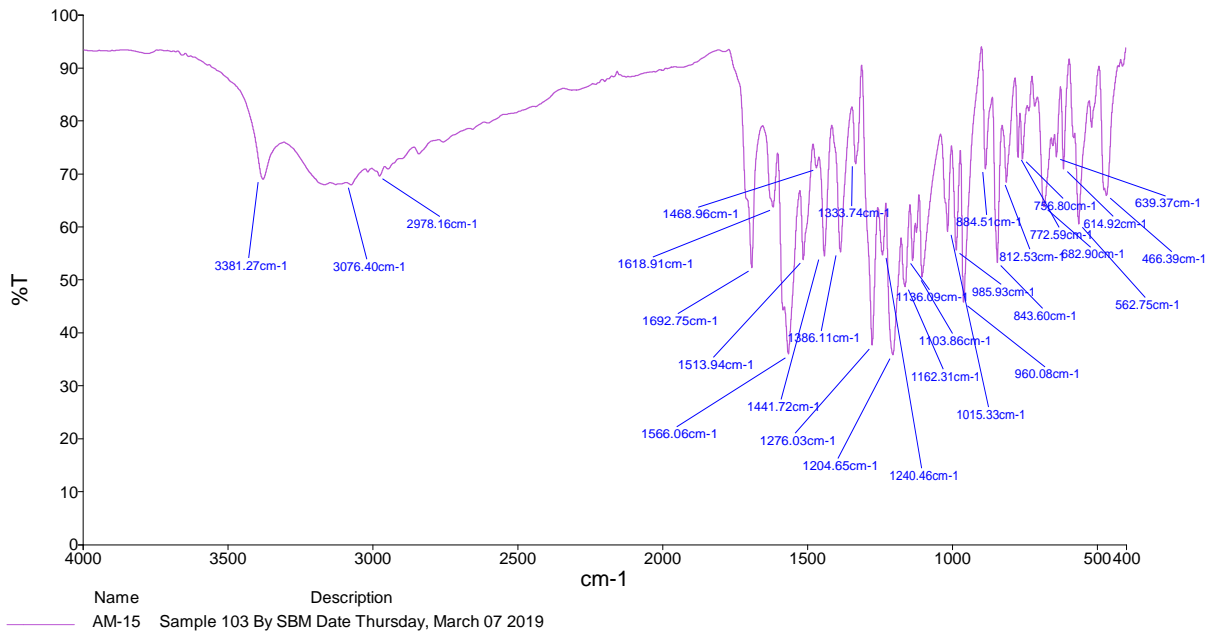


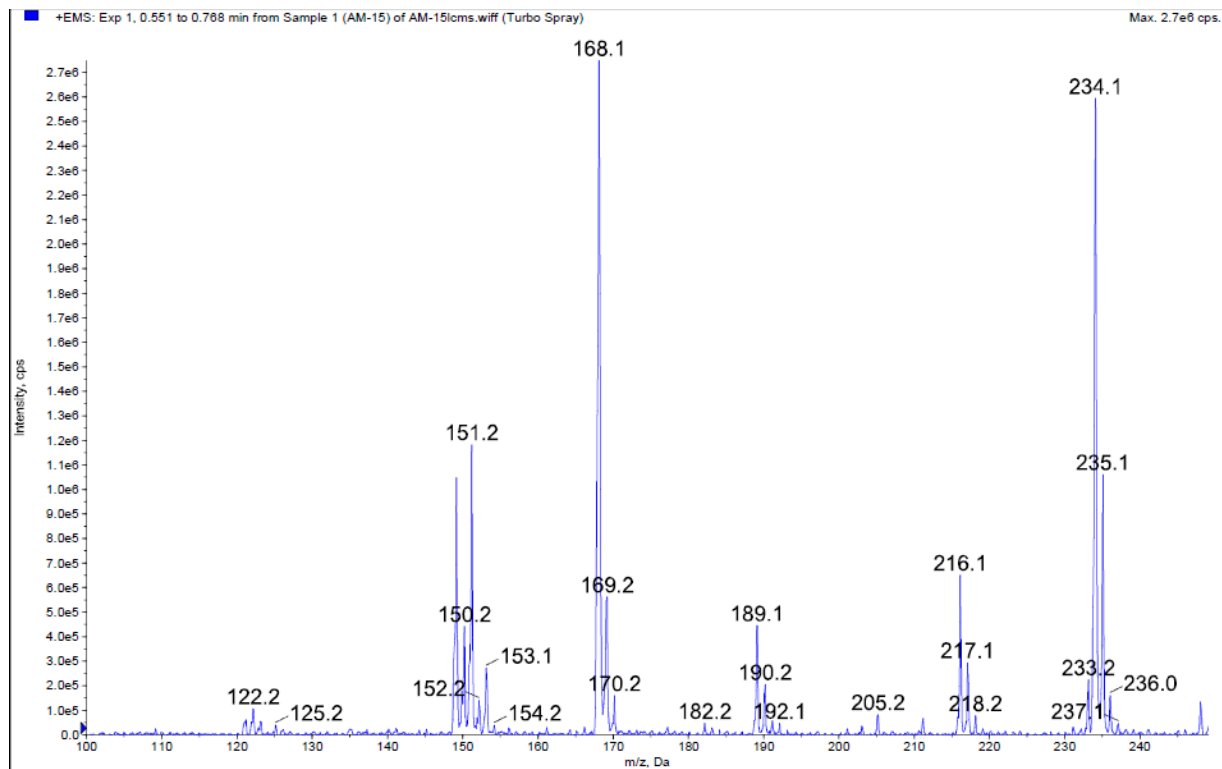
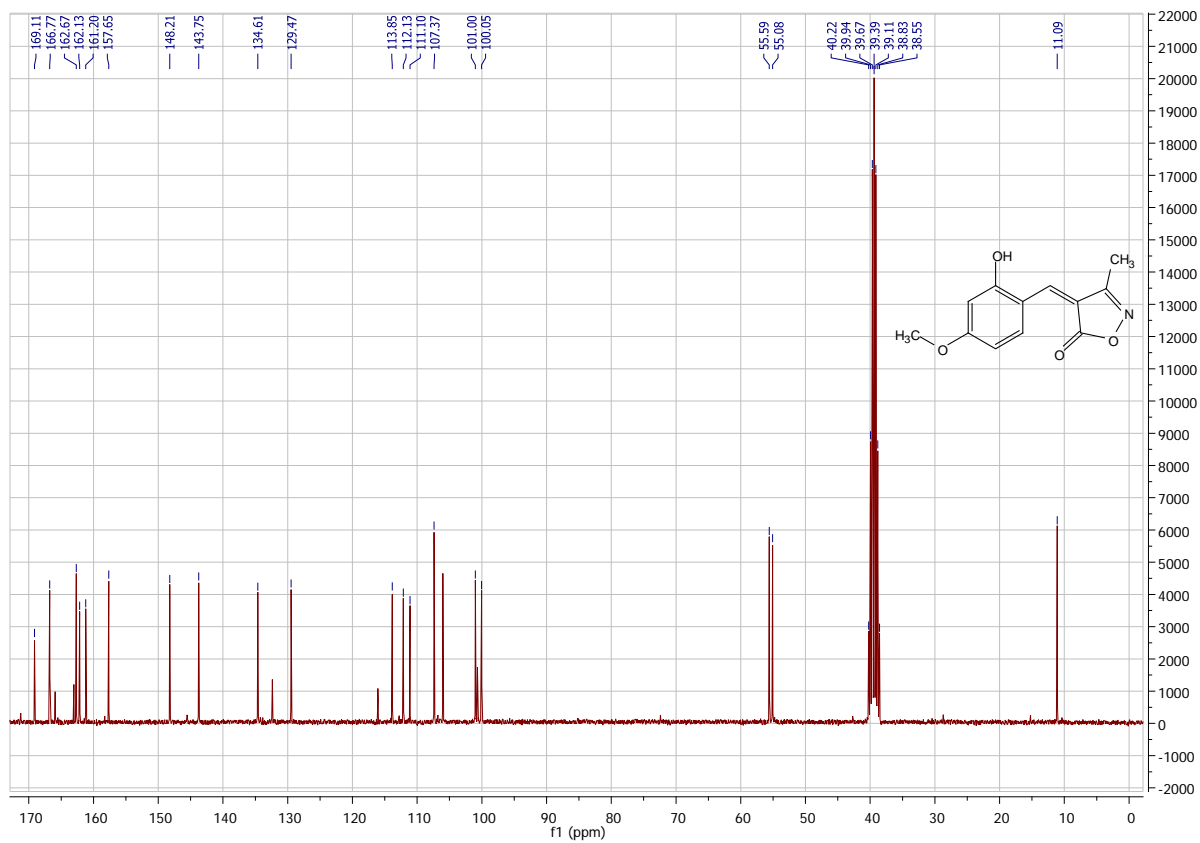
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Max. 1.7e6 cps.



**1.10 (Z)-4-(2-hydroxy-4-methoxybenzylidene)-3-methylisoxazol-5(4H)-one(4k)**





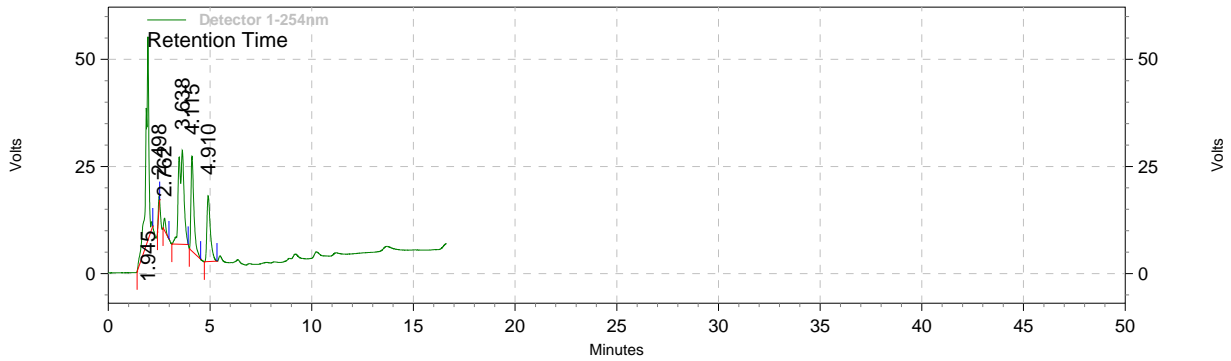
**2. HPLC of Tomato fruit extract**

Data File: D:\Marina\C18 60.40 tomato 60 40 1st r.dat

Method: D:\M.Sc. pract.4.10.19\M.Sc. wash.met

Acquired: 1/1/2003 12:20:52 AM

Printed: 1/1/2003 12:36:54 AM



**Detector 1-  
254nm Results  
(Acquisition in  
progress)**

Retention Time	Area	Area %	Height	Height %
1.945	489323	37.23	47523	42.32
2.498	10863	0.83	2463	2.19
2.762	18959	1.44	2859	2.55
3.638	394473	30.02	21931	19.53
4.115	219661	16.71	22175	19.75
4.910	180929	13.77	15341	13.66

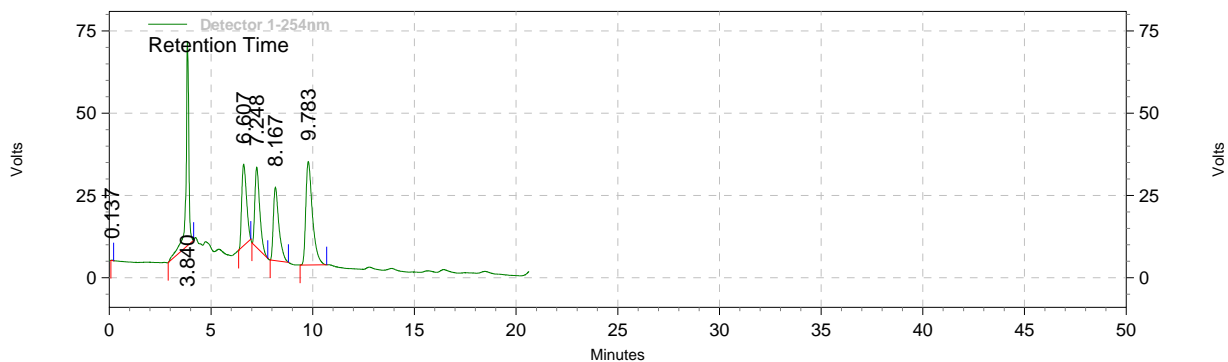
Totals	1314208	100.00	112292	100.00
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Data File: D:\Marina\C18 60.40 tomato 60 40 1st 0.5.dat

Method: D:\M.Sc. pract.4.10.19\M.Sc. wash.met

Acquired: 1/1/2003 12:41:05 AM

Printed: 1/1/2003 1:01:23 AM



**Detector 1-  
254nm Results  
(Acquisition in  
progress)**

Retention Time	Area	Area %	Height	Height %
0.137	560	0.02	134	0.08
3.840	604310	23.74	62235	37.66
6.607	402661	15.82	24734	14.97
7.248	403669	15.86	24439	14.79
8.167	422116	16.58	22279	13.48
9.783	712107	27.98	31418	19.01

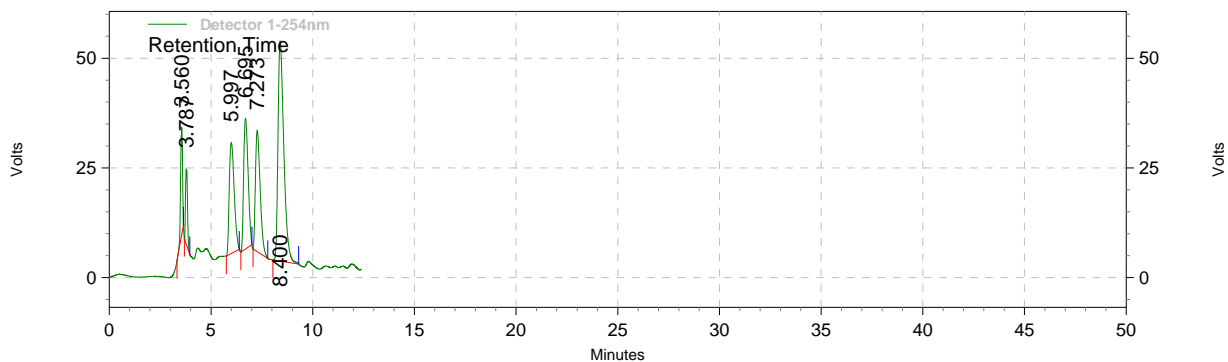
Totals	2545423	100.00	165239	100.00
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Data File: D:\Marina\C18 60.40 tomato 70 30 1st 0.5.dat

Method: D:\M.Sc. pract.4.10.19\M.Sc. wash.met

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Printed: 1/1/2003 1:18:17 AM



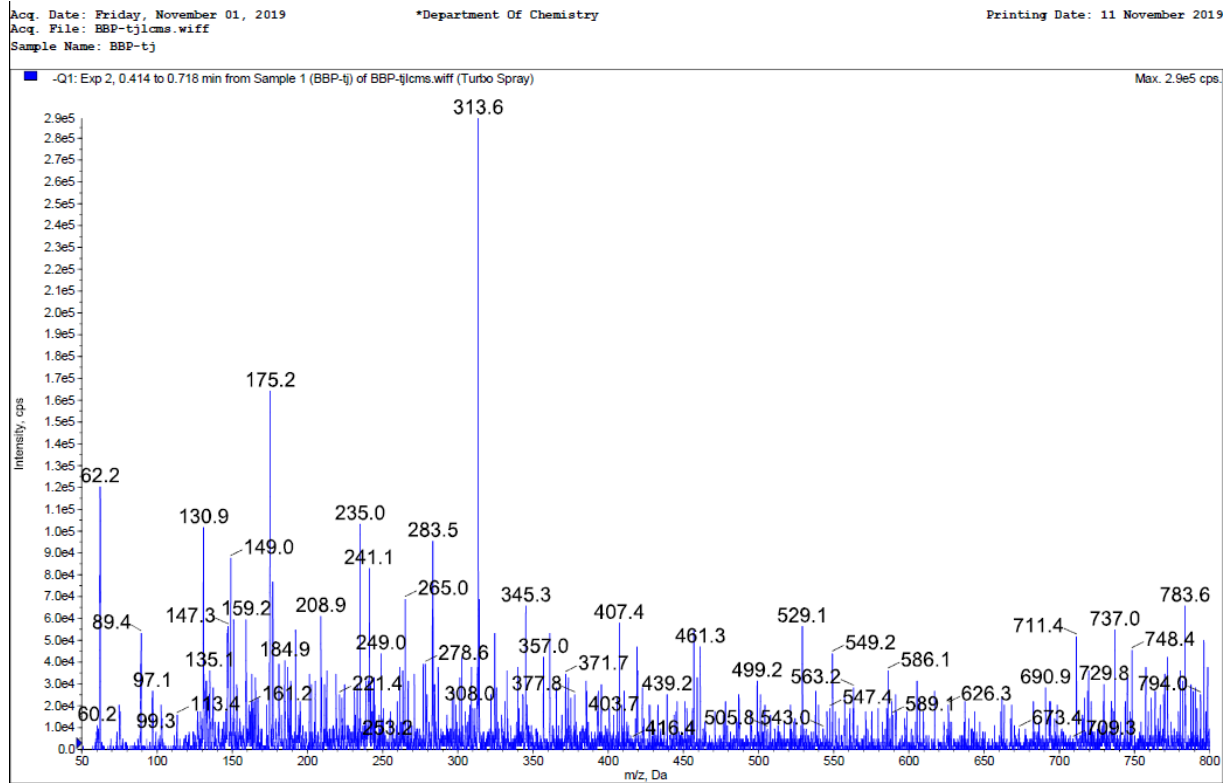
**Detector 1-  
254nm Results  
(Acquisition in  
progress)**

Retention Time	Area	Area %	Height	Height %
3.560	161410	6.20	24419	14.00
3.787	118683	4.56	17118	9.82
5.997	425876	16.37	25275	14.50
6.695	451371	17.35	29752	17.06
7.273	448732	17.25	27609	15.83
8.400	995446	38.26	50190	28.78

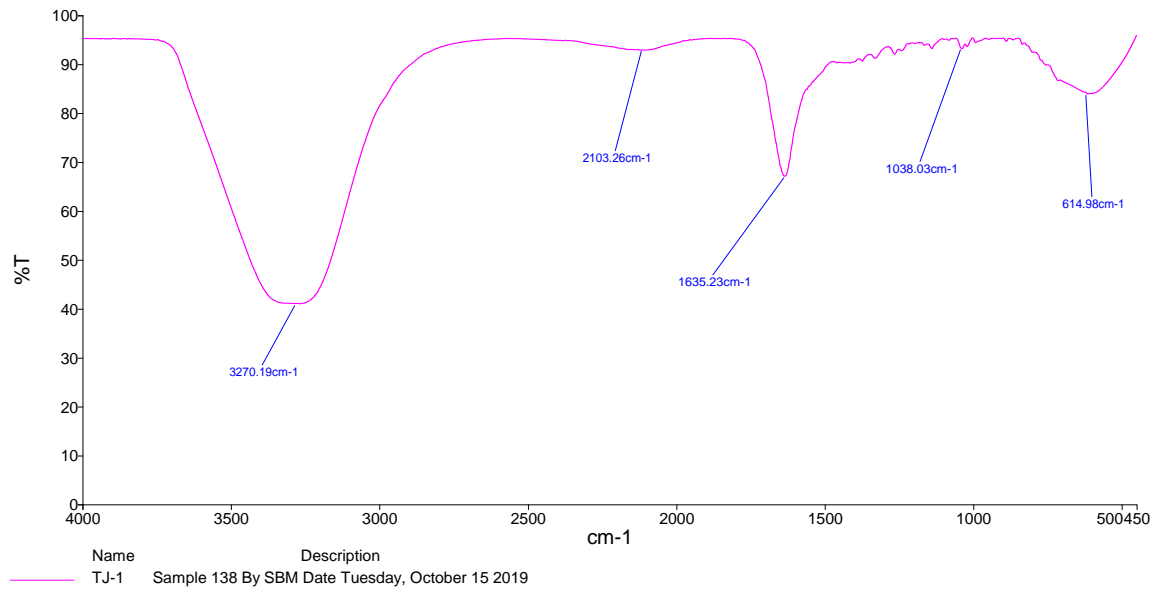
Totals	2601518	100.00	174363	100.00
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### 3. LC-MS of Tomato fruit extract:



### 3. IR spectrum of tomato fruit extract:



#### 4. References

1. R Laroum&ADebache, *Synth Commun*, 48, **2018**, 14, 1876.
2. S Patil, S D Jadhav, & S Y Mane, *Int J Org Chem*,1, **2011**, 125.
3. M BDeshmukh, S SPatil, S D Jadhav& P B Pawar, *Synth Commun*,42,**2012**, 1177.

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