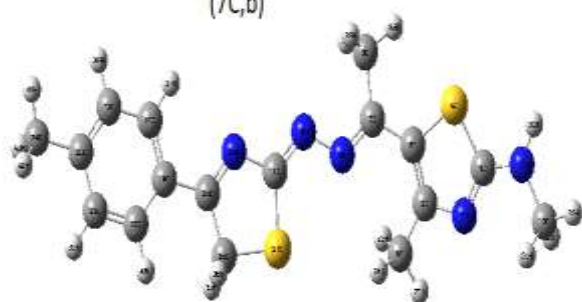
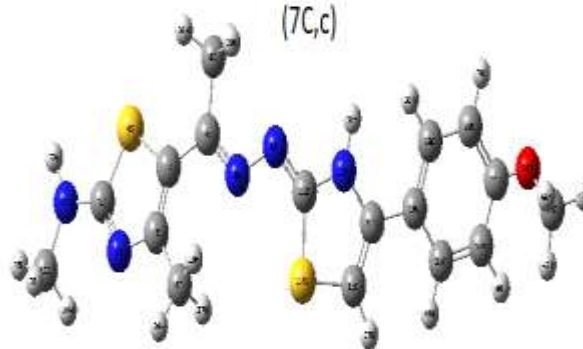


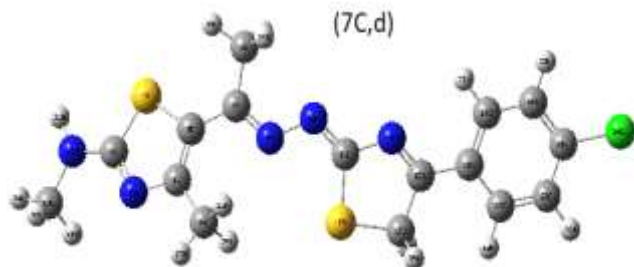
(7C,b)



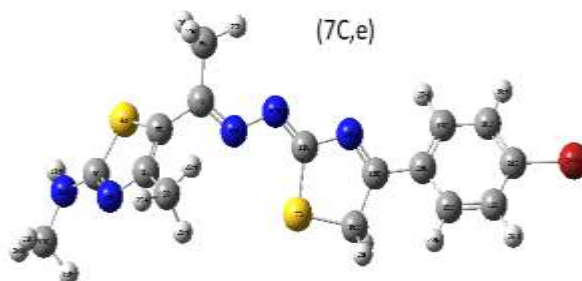
(7C,c)



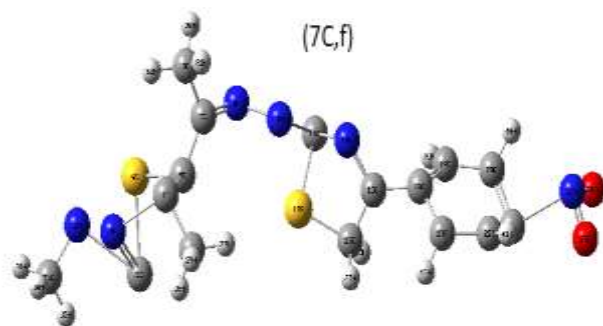
(7C,d)



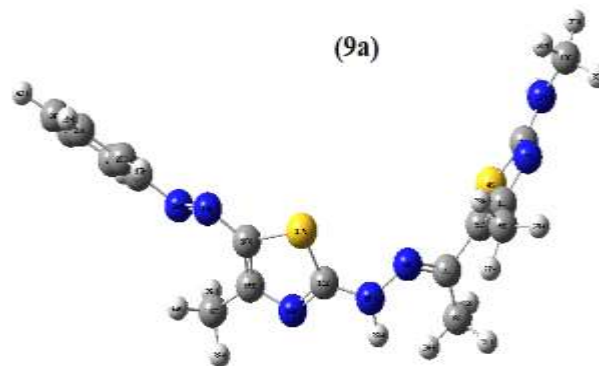
(7C,e)



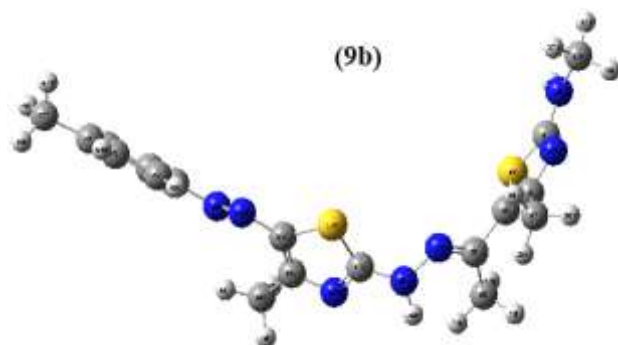
(7C,f)



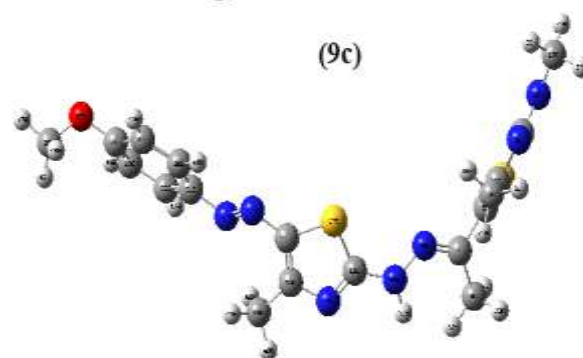
(9a)



(9b)



(9c)



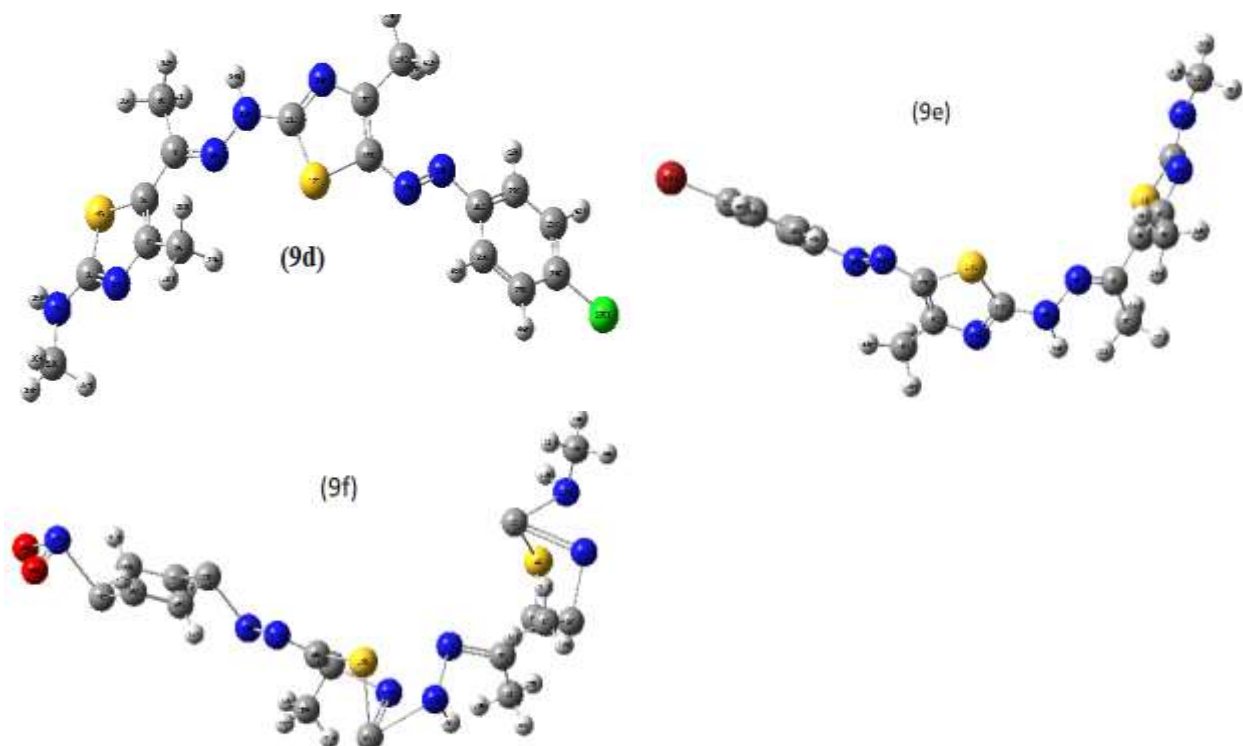
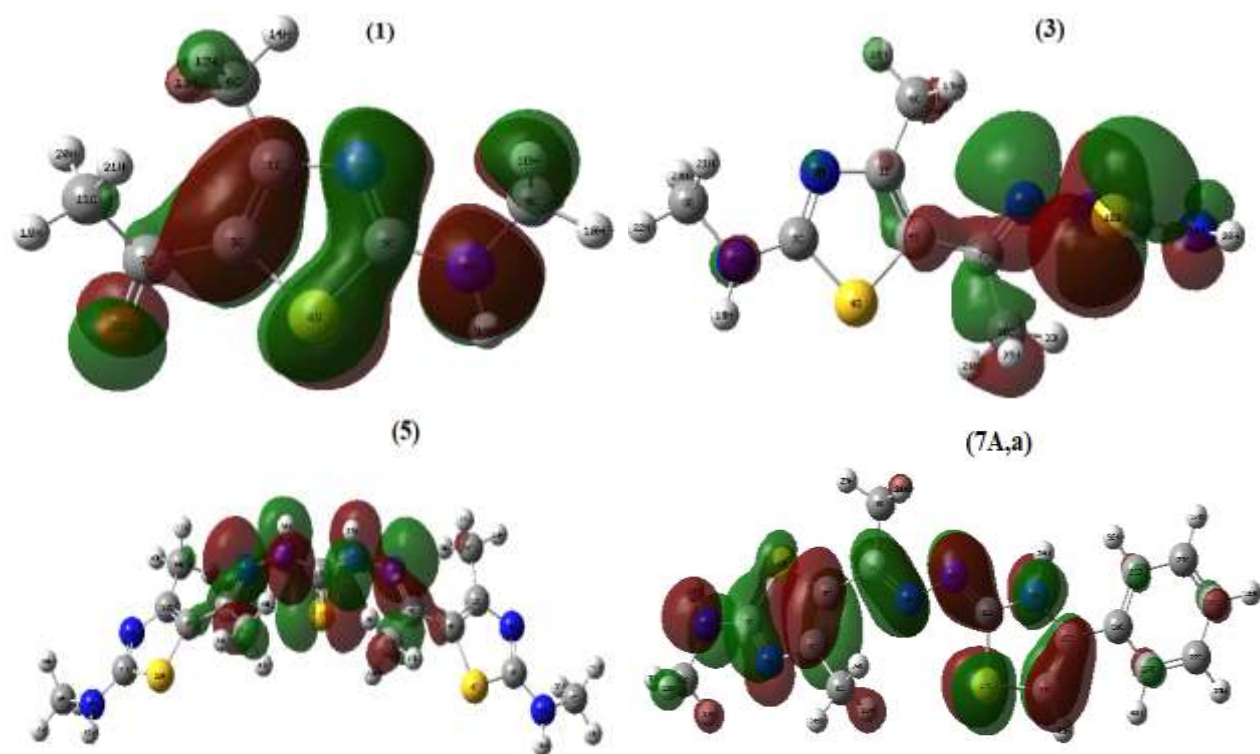
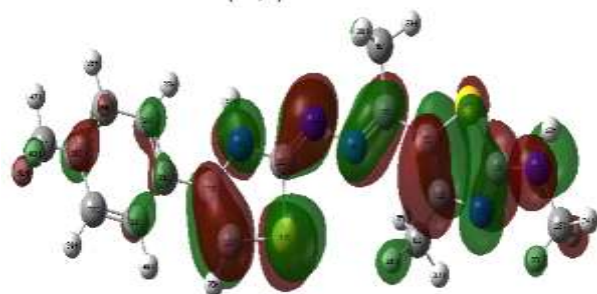


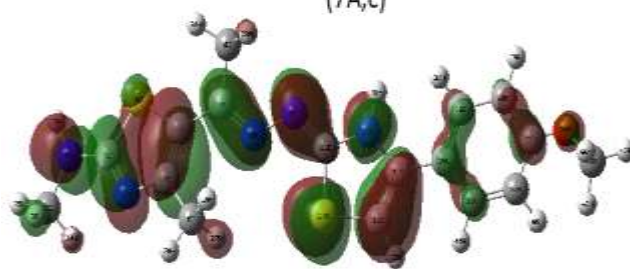
Fig. 1S. Optimized structures of dithiazole synthesis & conformers



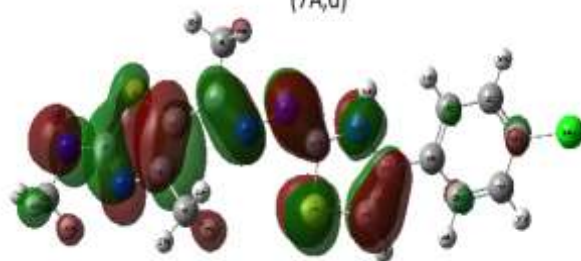
(7A,b)



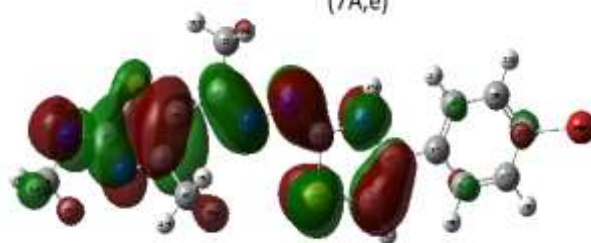
(7A,c)



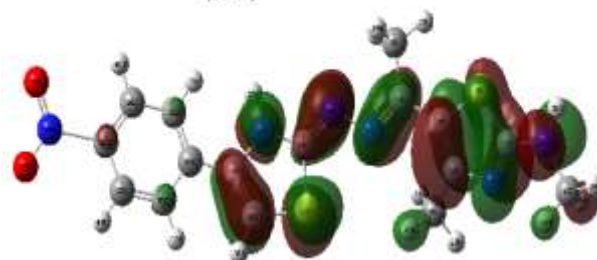
(7A,d)



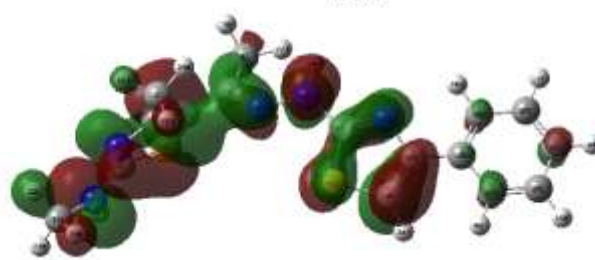
(7A,e)



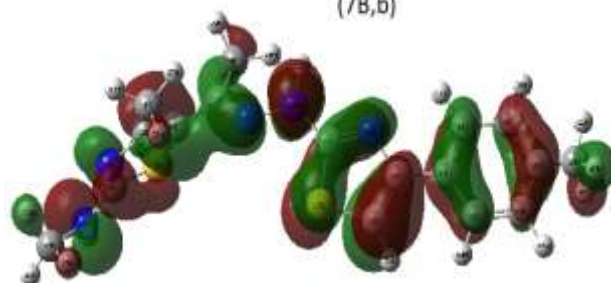
(7A,f)



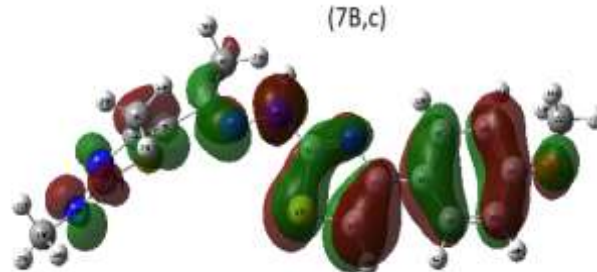
(7B,a)



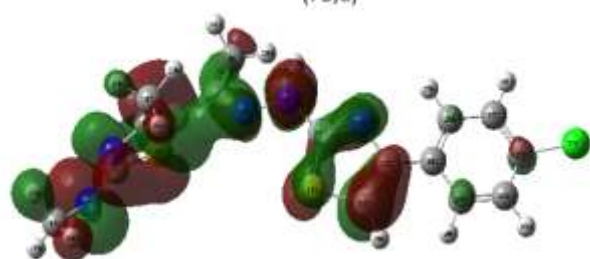
(7B,b)



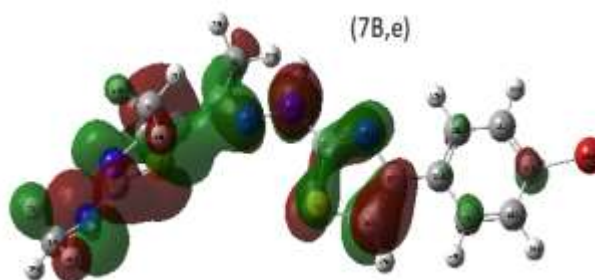
(7B,c)

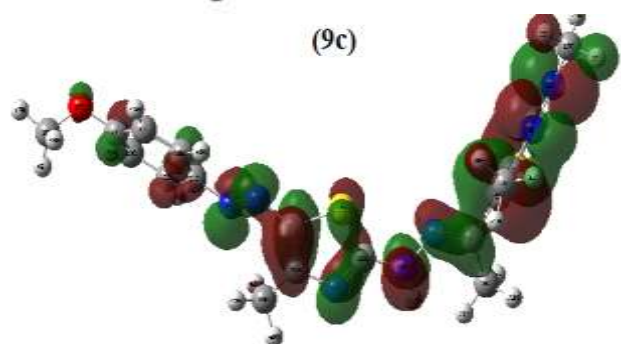
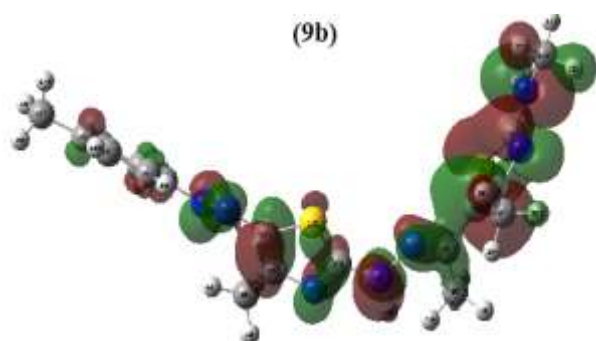
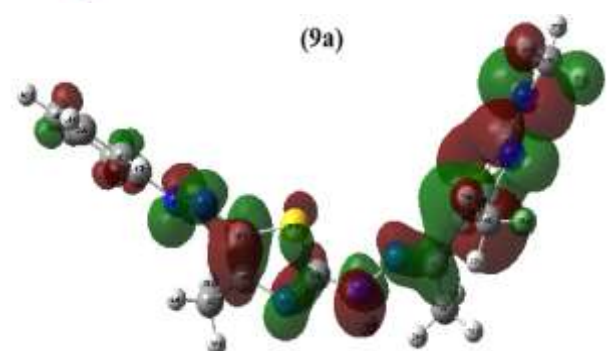
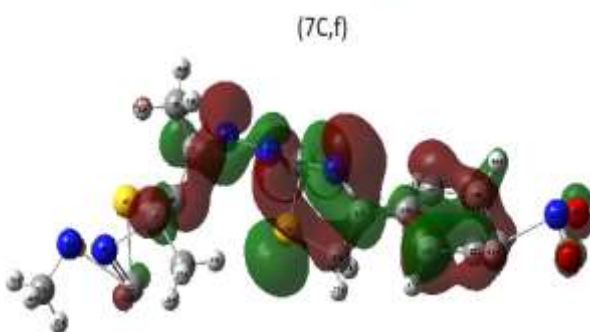
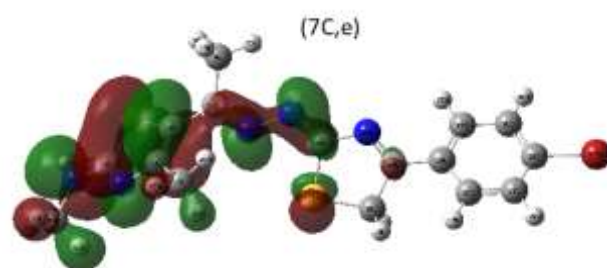
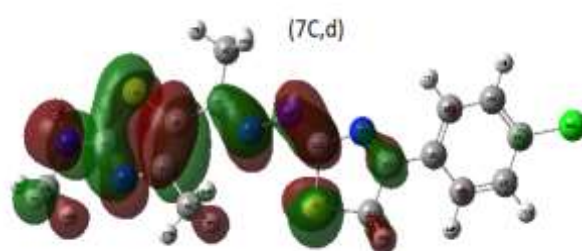
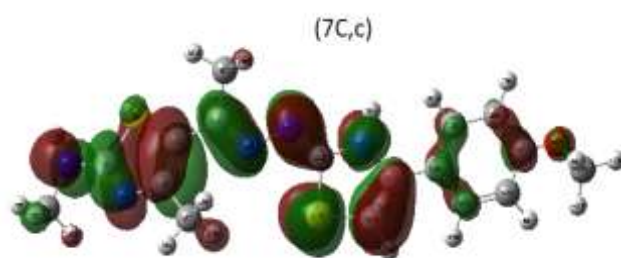
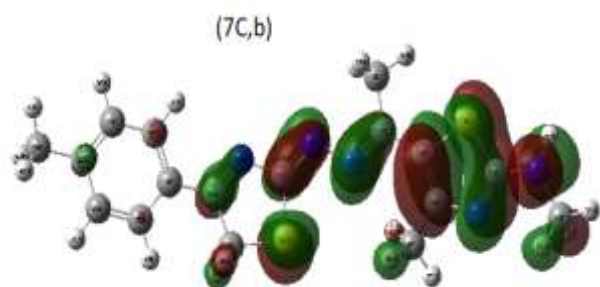
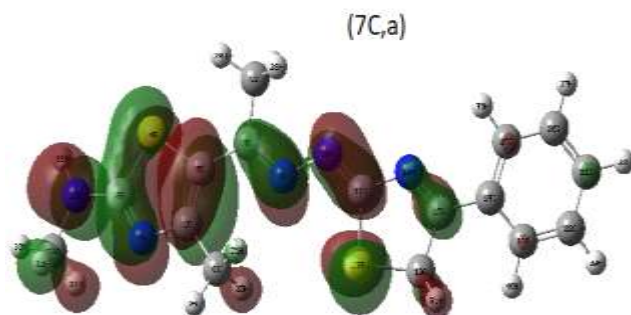
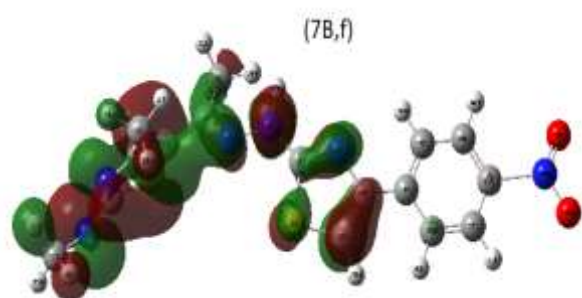


(7B,d)



(7B,e)





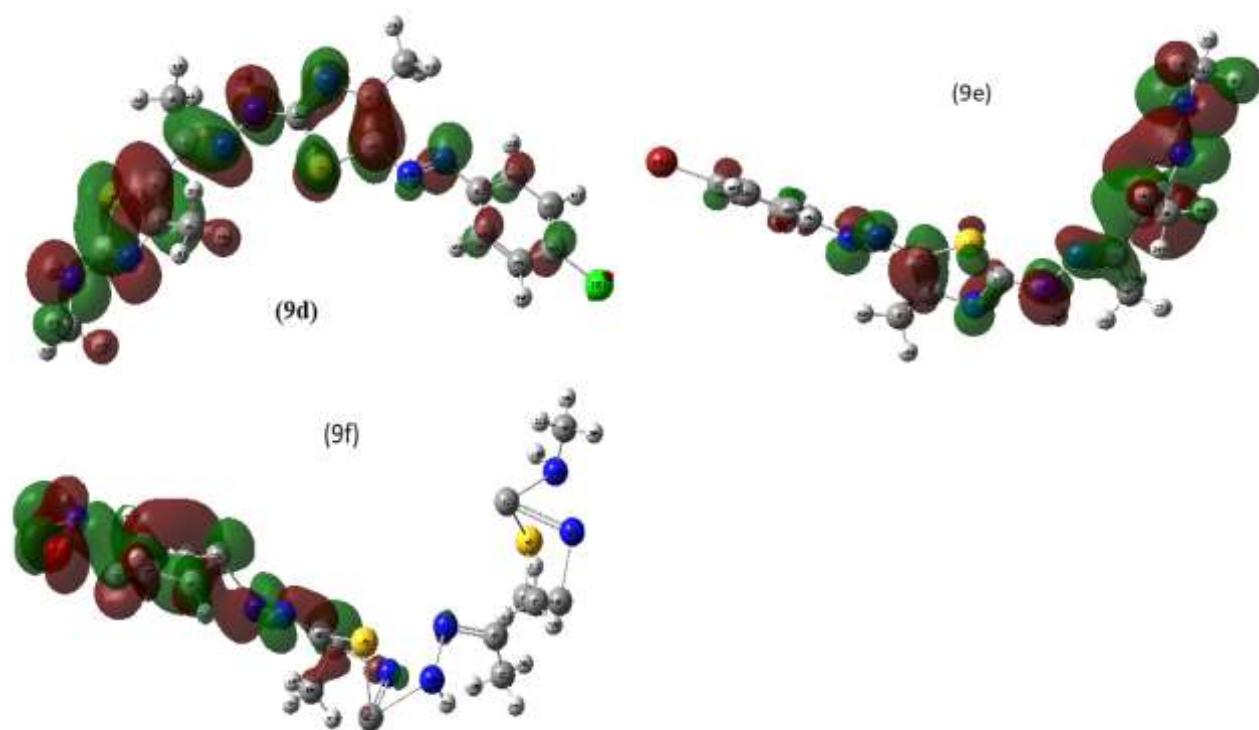
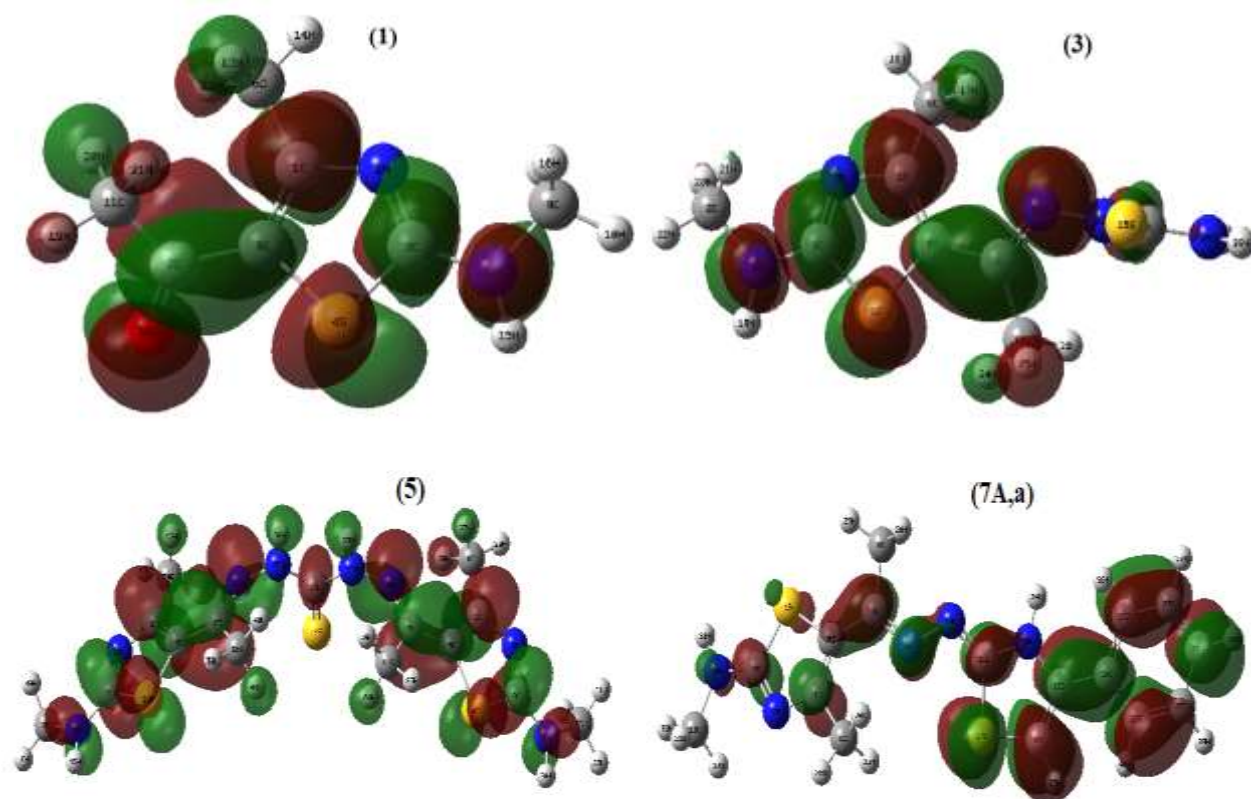
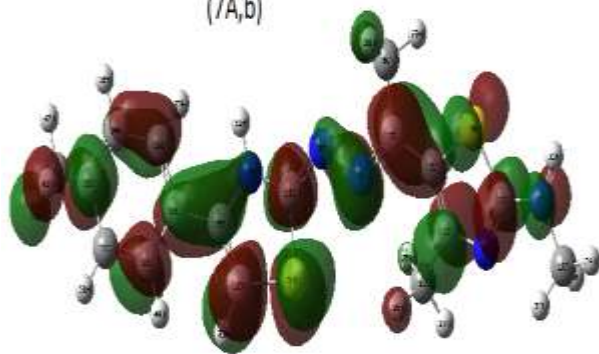


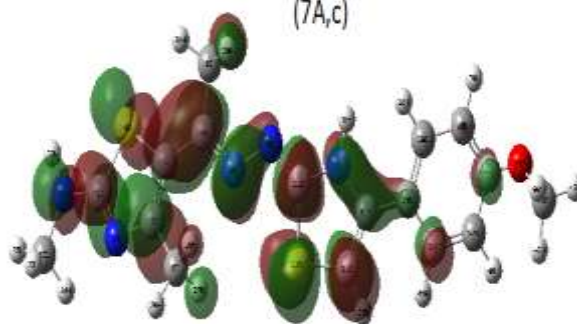
Fig. 2S. HOMO images of dithiazole synthesis & conformers



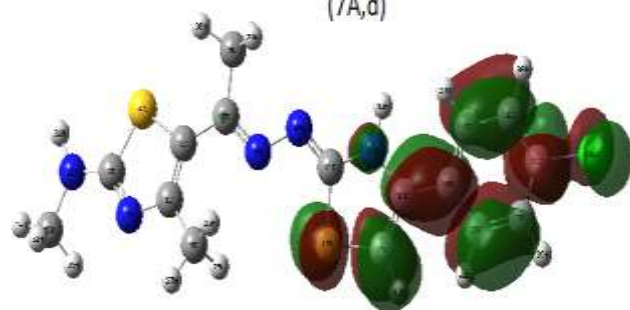
(7A,b)



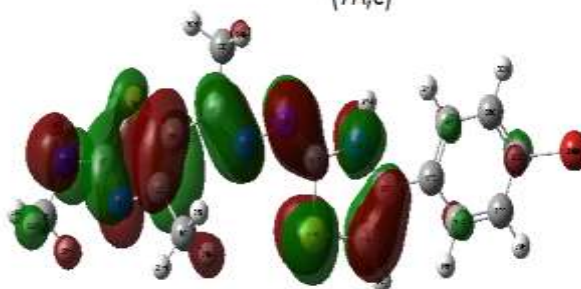
(7A,c)



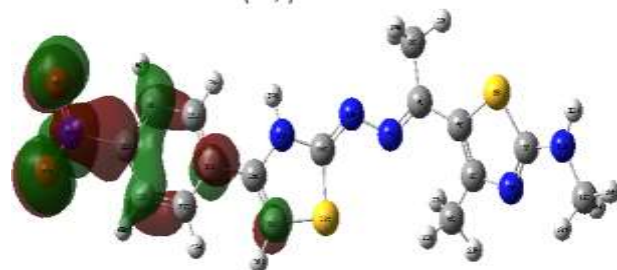
(7A,d)



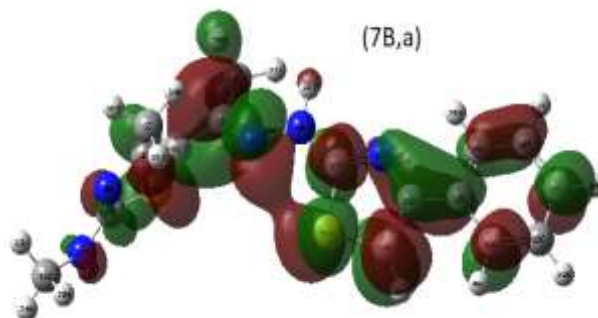
(7A,e)



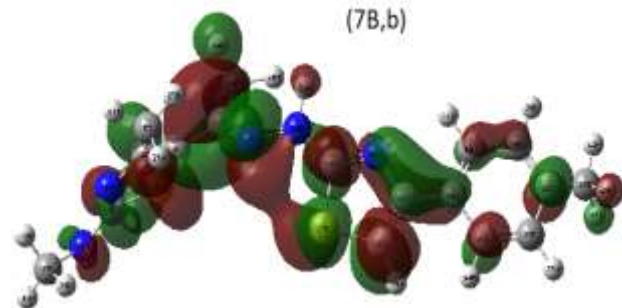
(7A,f)



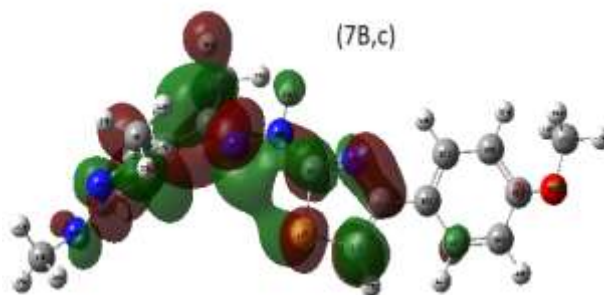
(7B,a)

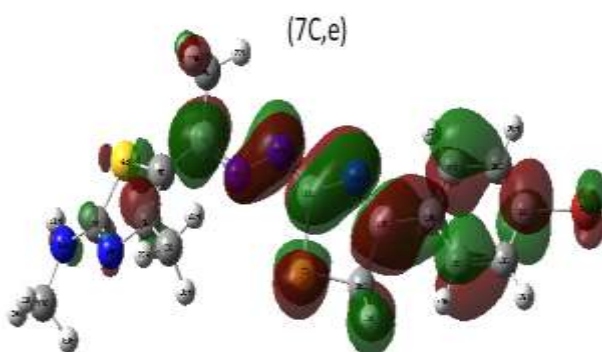
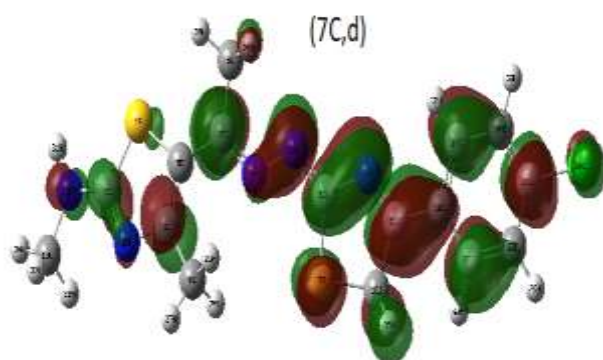
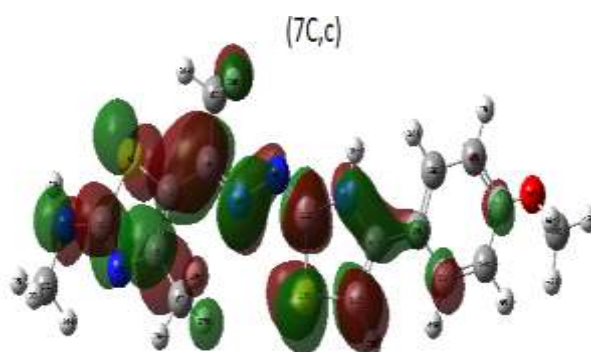
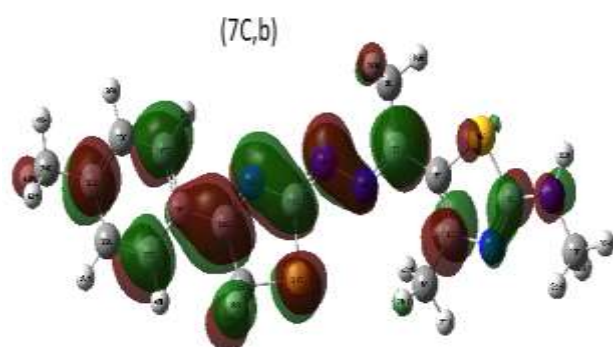
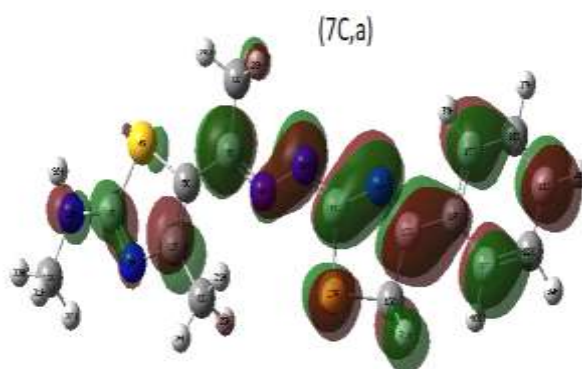
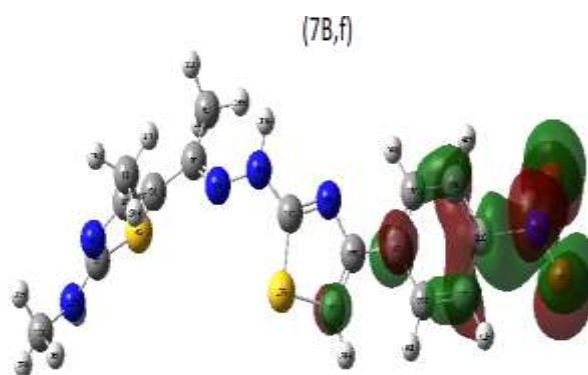
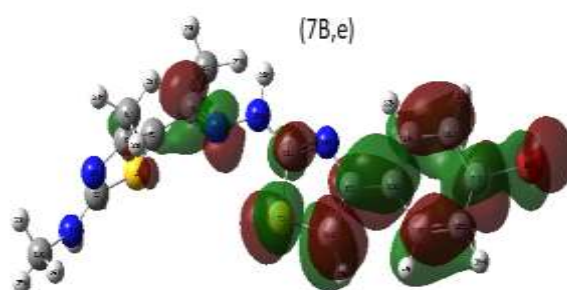
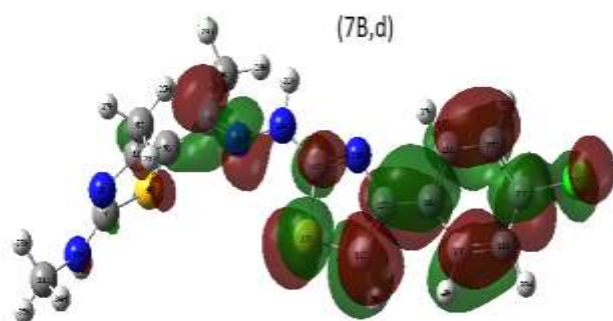


(7B,b)



(7B,c)





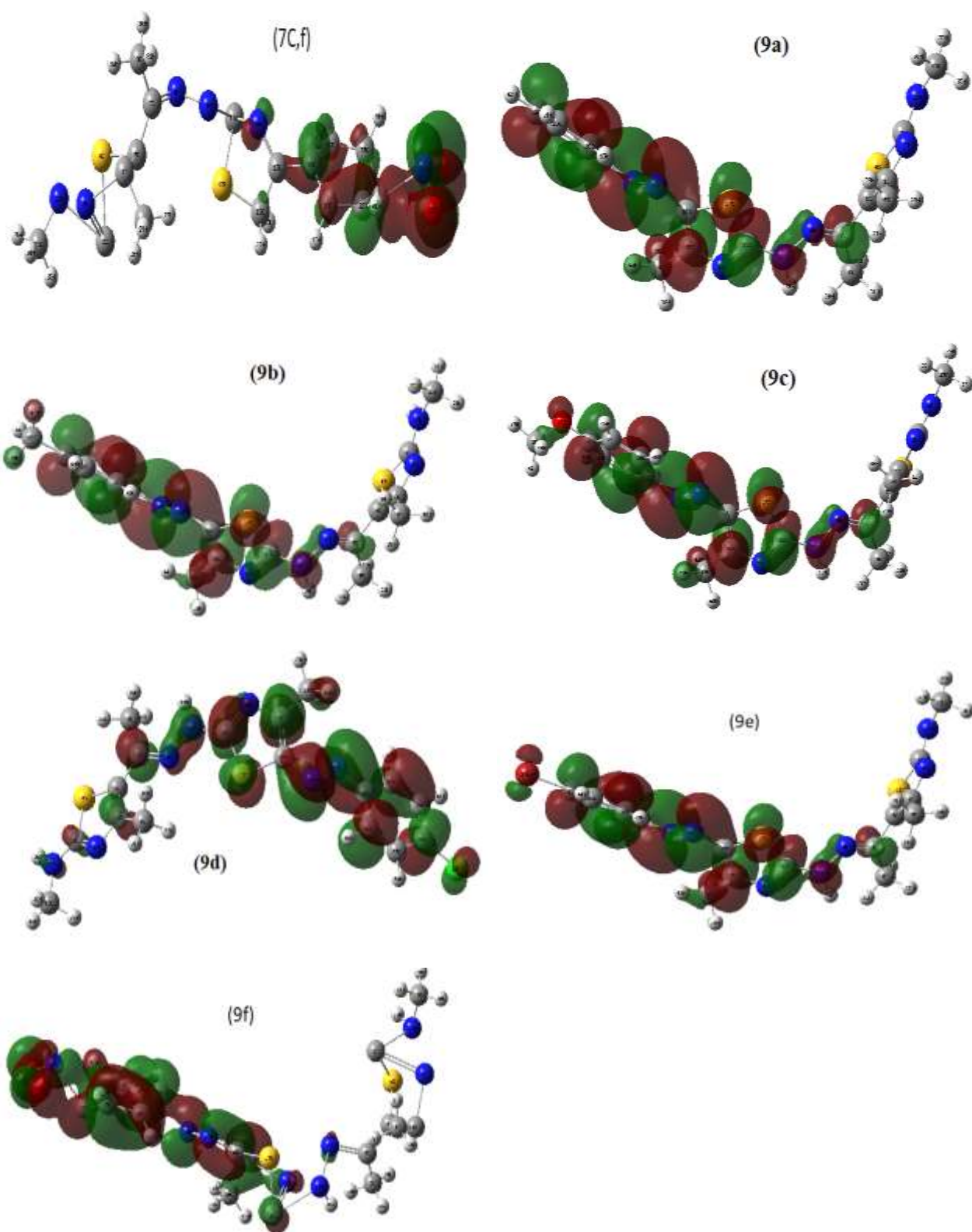
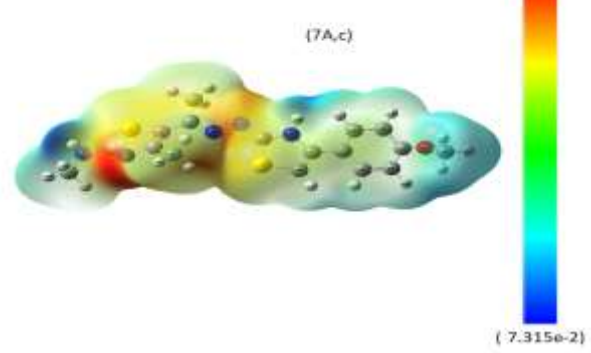
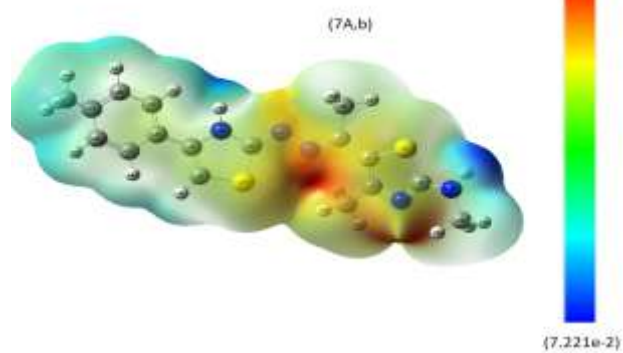
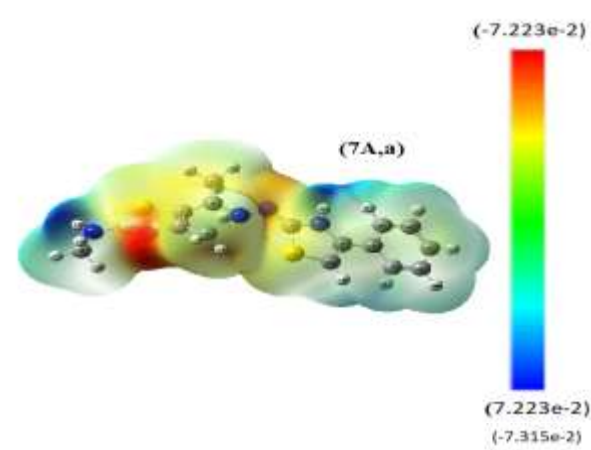
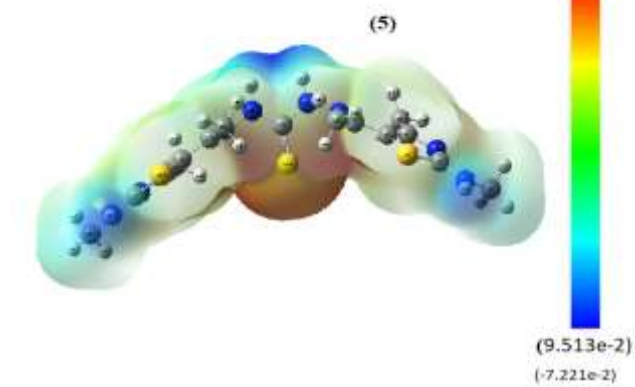
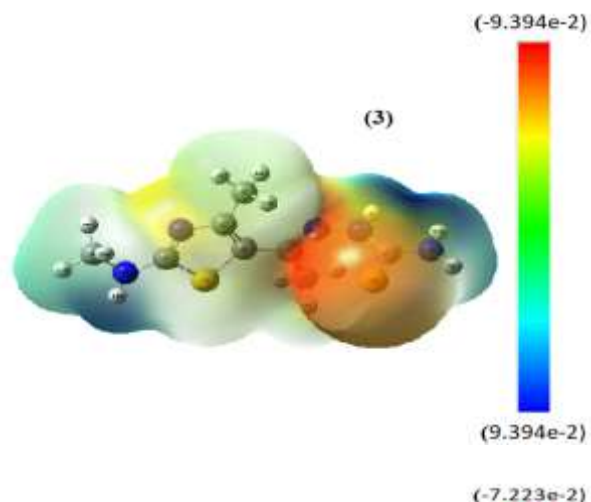
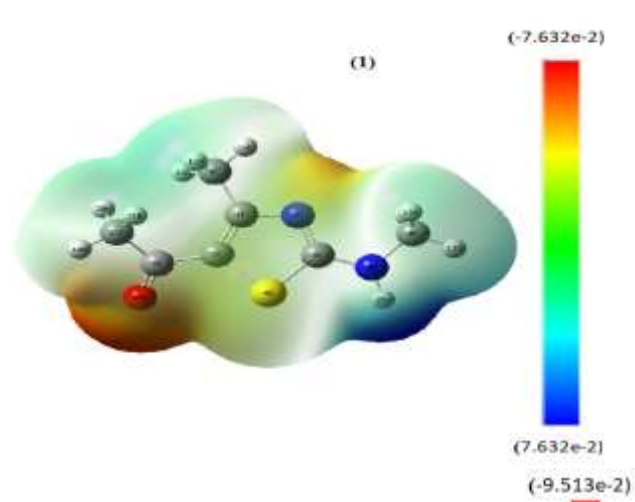
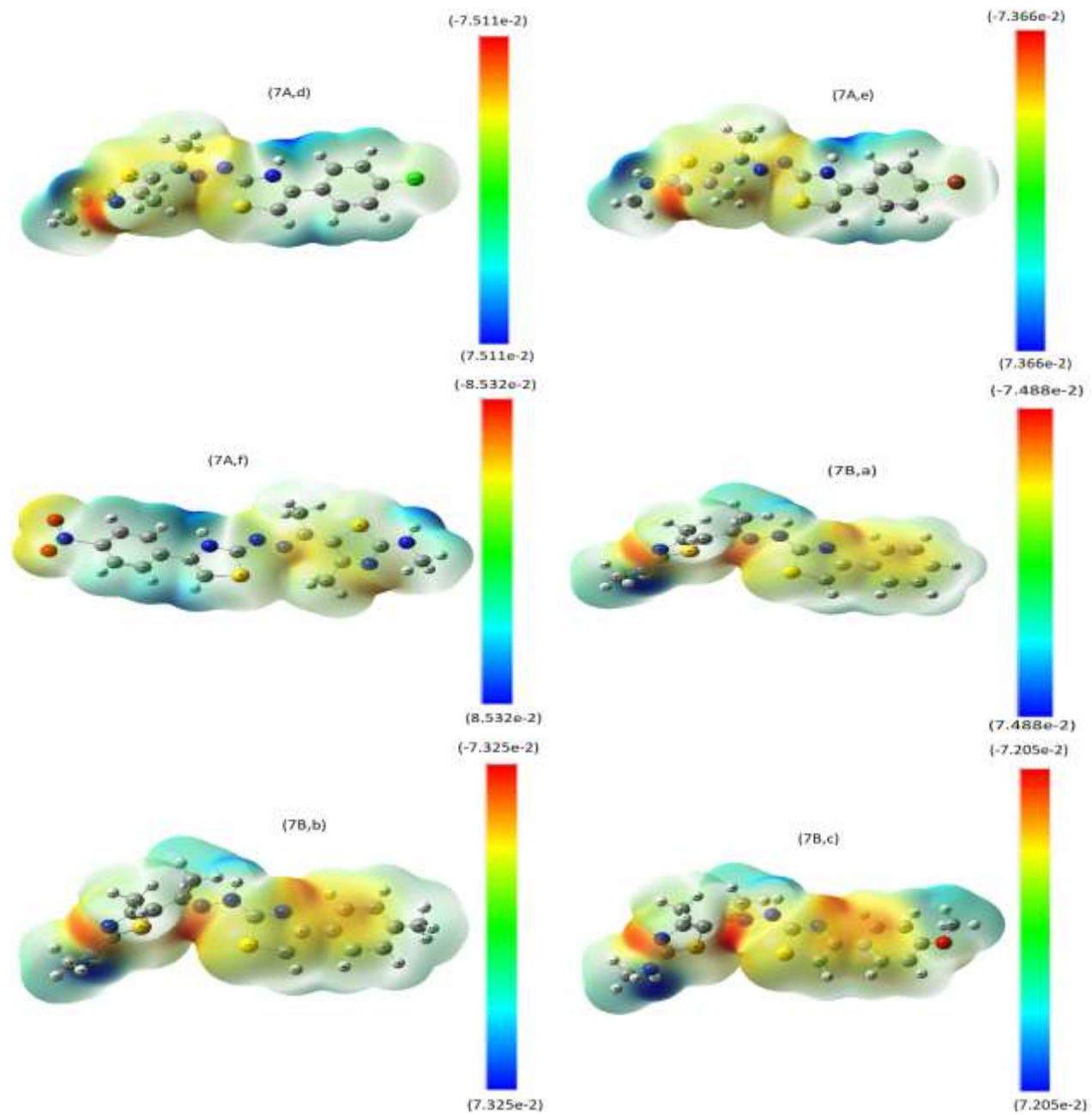
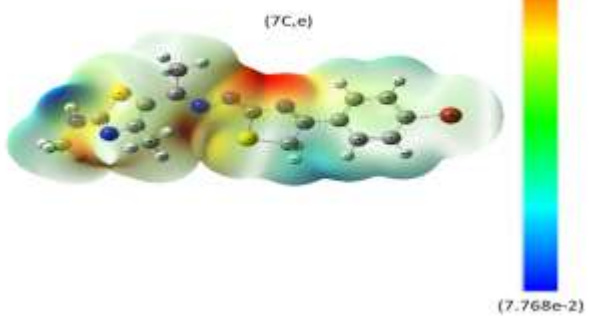
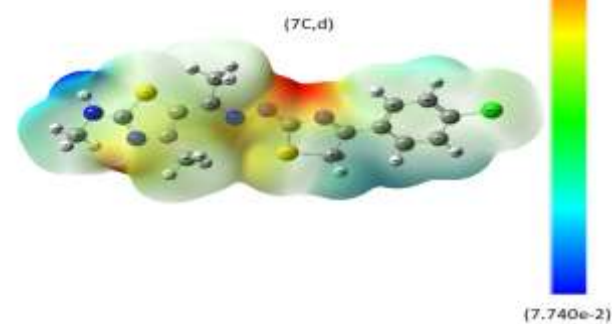
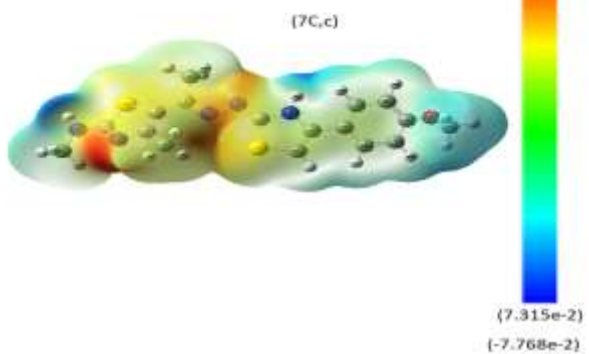
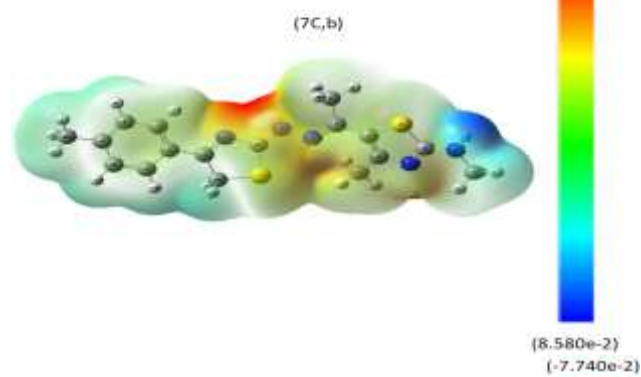
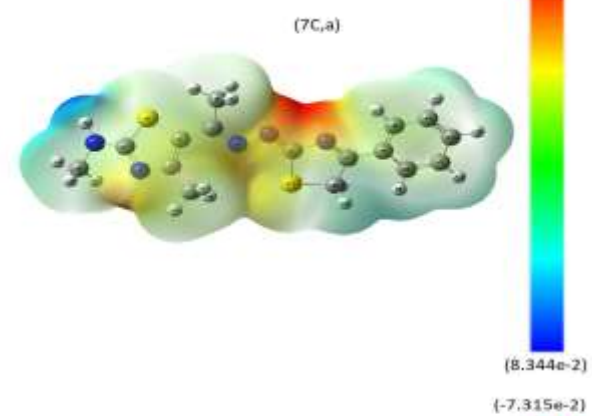
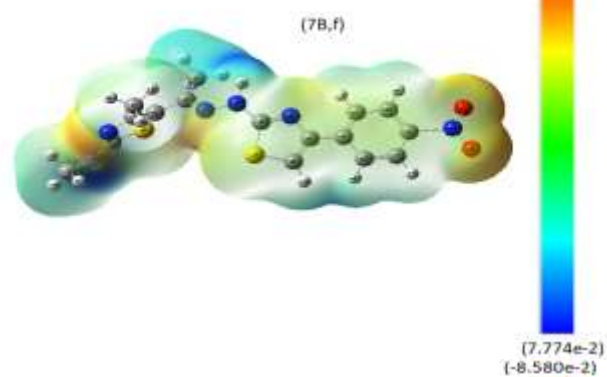
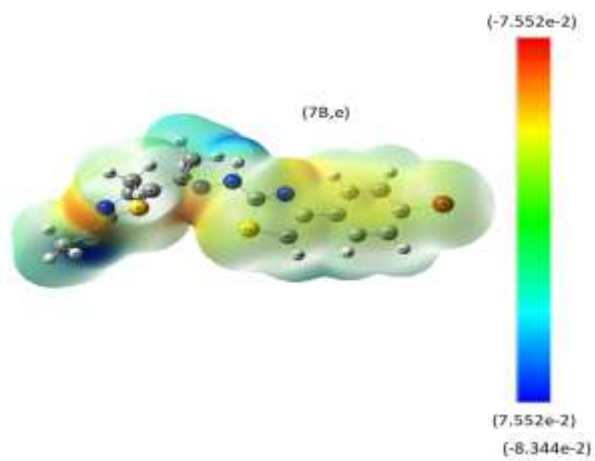
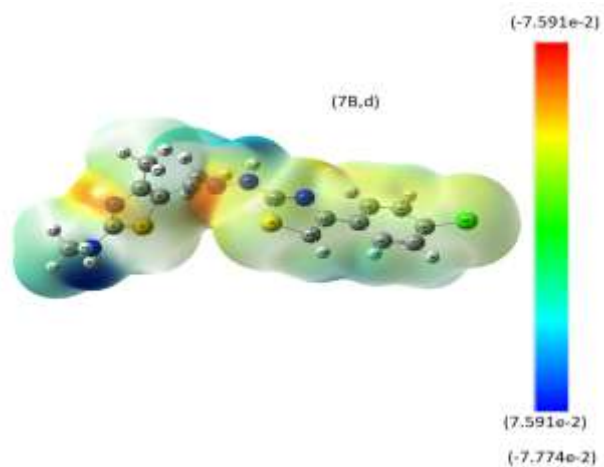


Fig. 3S. LUMO images of dithiazole synthesis & conformers







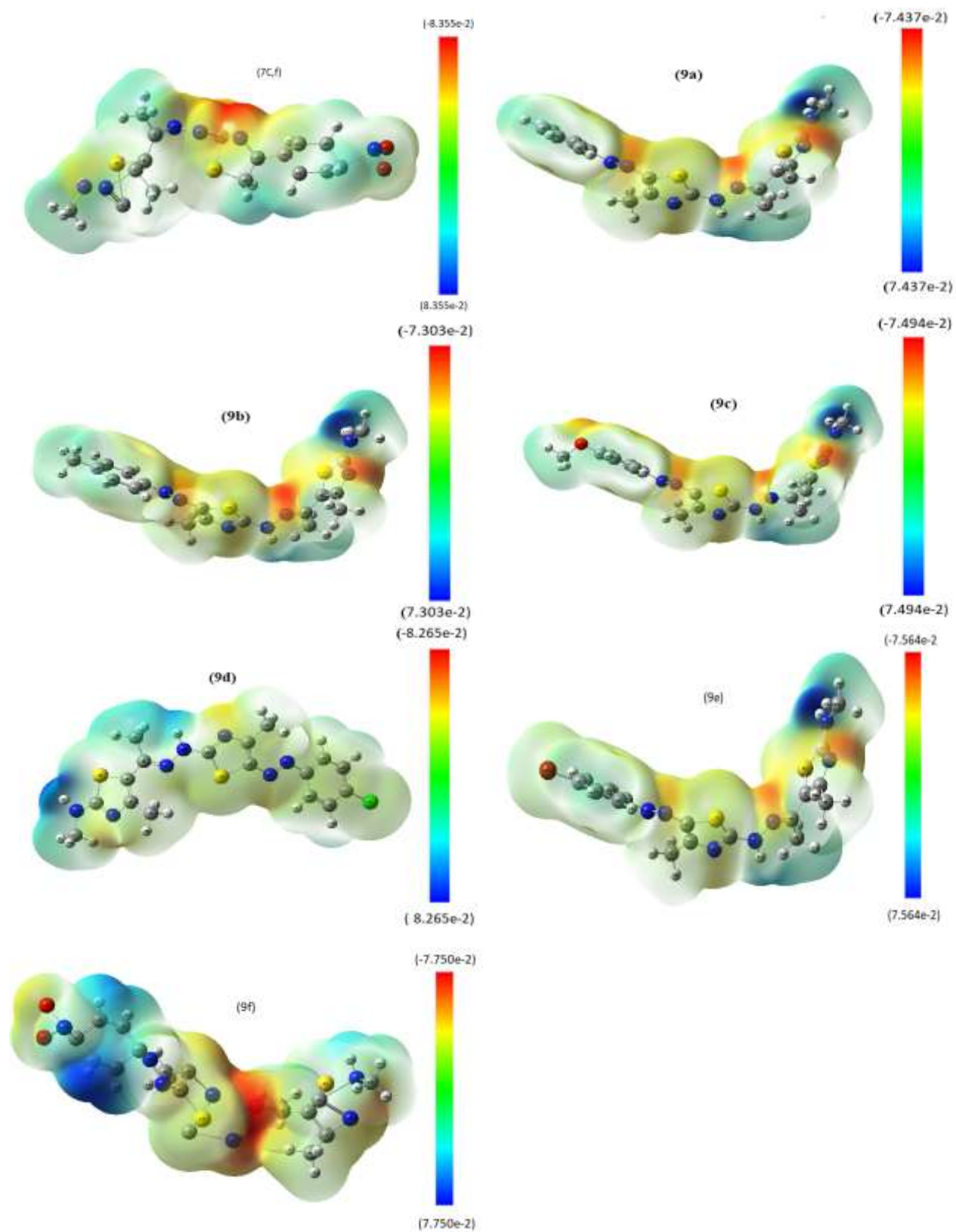
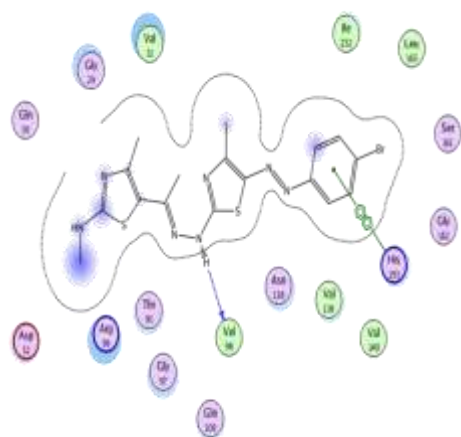
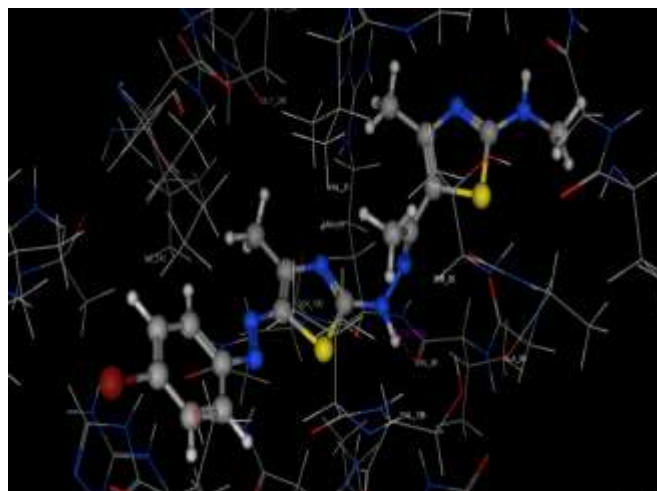


Fig. 4S. Electrostatic maps of dithiazole compounds & conformers

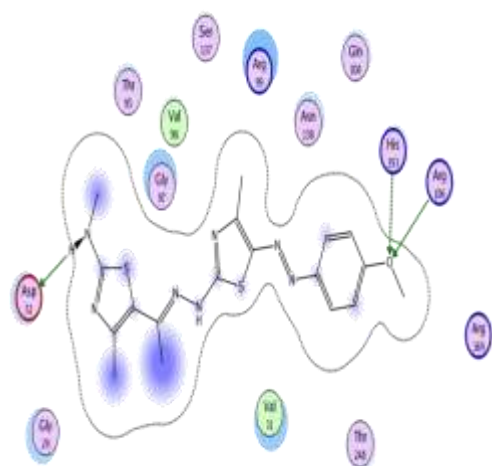


A

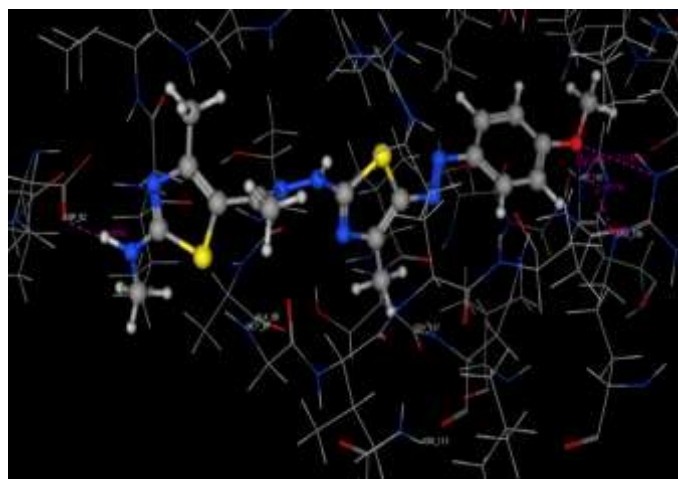


B

Figure 5S: The proposed binding mode of the **9e** docked in the active site of LDH-5; A and B showing 2D and 3D ligand-receptor interactions



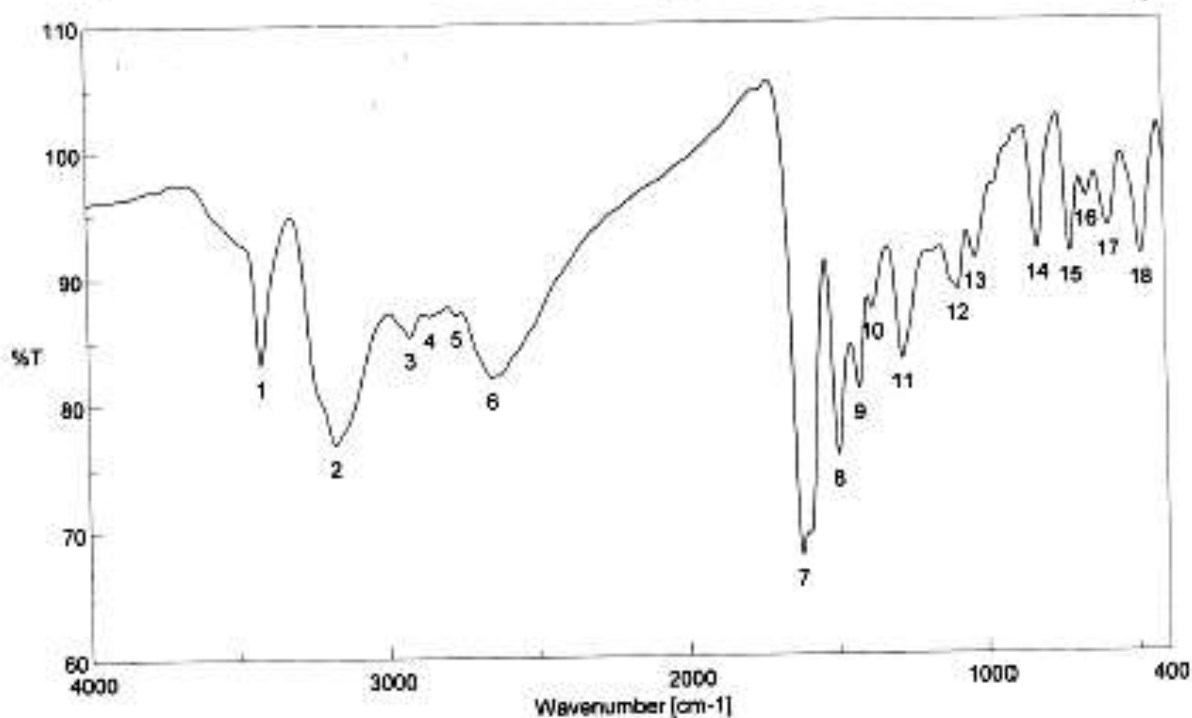
A



B

Figure 6S: The proposed binding mode of the **9c** docked in the active site of LDH-5; A and B showing 2D and 3D ligand-receptor interactions

Peak Find - Memory-90



[Comments]
Sample name
Comment
User
Division
Company

compound 3

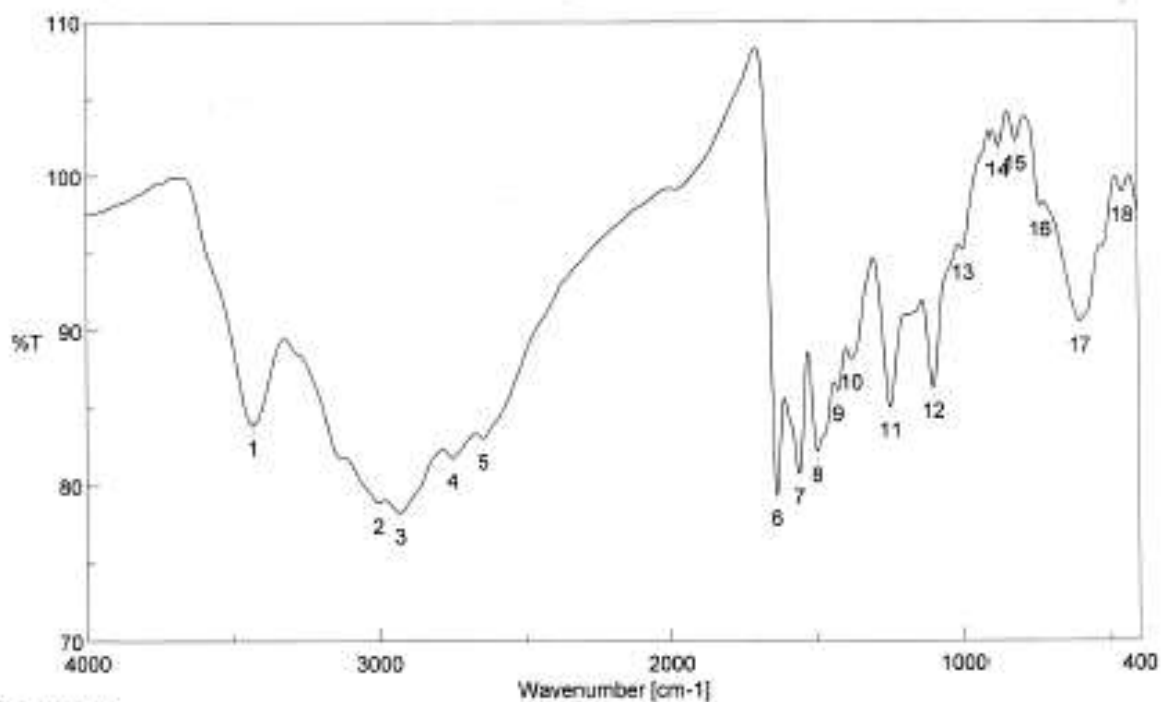
6/2018
IR
IR
MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3423.03	83.2412	2	3177.15	76.85	3	2925.48	85.3475
4	2859.92	86.9167	5	2770.24	87.0068	8	2650.68	82.0628
7	1620.88	67.8441	8	1495.53	75.6668	9	1424.17	80.6497
10	1377.89	87.2187	11	1278.54	83.2181	12	1080.55	88.6135
13	1030.77	91.0792	14	829.241	91.7458	15	716.425	91.4859
16	662.428	95.8982	17	588.182	93.4936	18	479.224	91.2237



Peak Find - Memory-86



[Comments]
Sample name
Comment
User
Division
Company

Compound 5

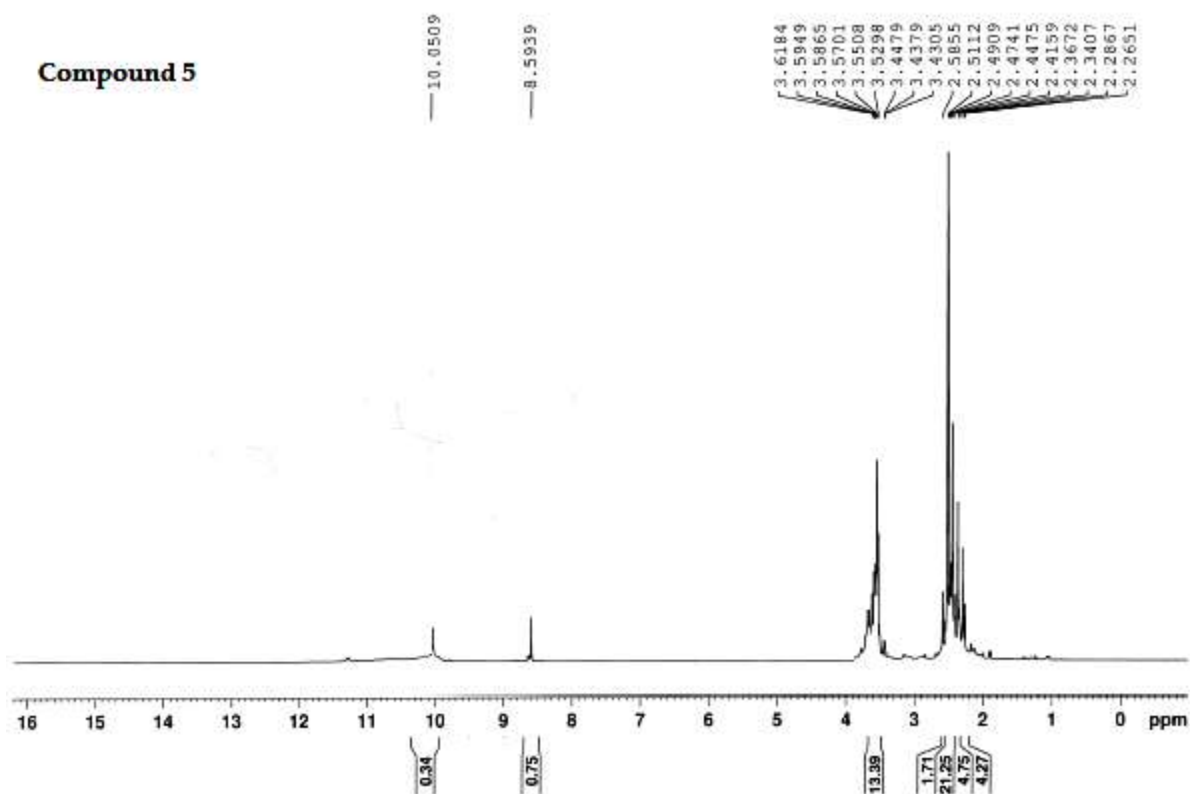
6/2018
IR
IR
MAC

[Result of Peak Picking]

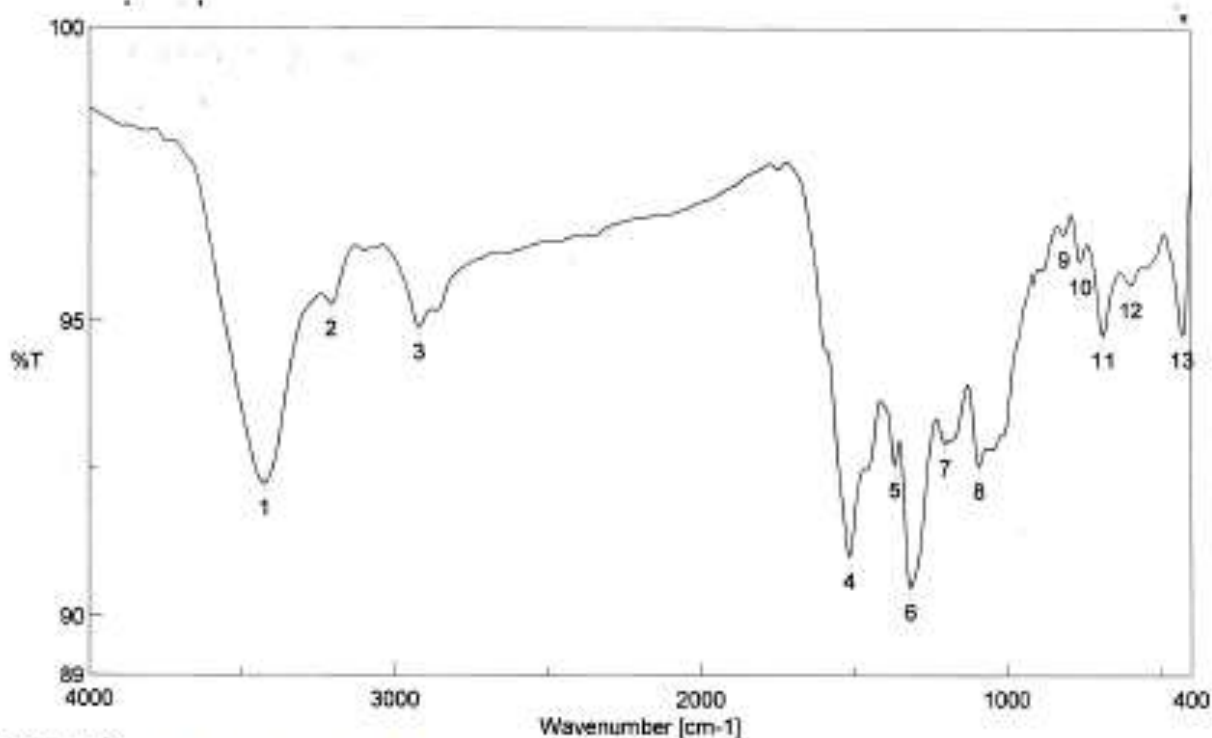
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3428.81	83.928	2	3001.66	78.9073	3	2927.41	78.2705
4	2748.07	81.8189	5	2643.93	83.0612	6	1636.3	79.3552
7	1580.13	80.756	8	1496.42	82.1682	9	1426.1	86.1045
10	1380.78	88.143	11	1248.68	85.0351	12	1100.19	86.2835
13	996.053	95.2217	14	878.417	101.882	15	821.527	102.286
16	735.71	97.997	17	602.646	90.5132	18	452.225	98.9232



Compound 5



Peak Find - Memory-114



[Comments]
Sample name
Comment
User
Division
Company

Compound 7a

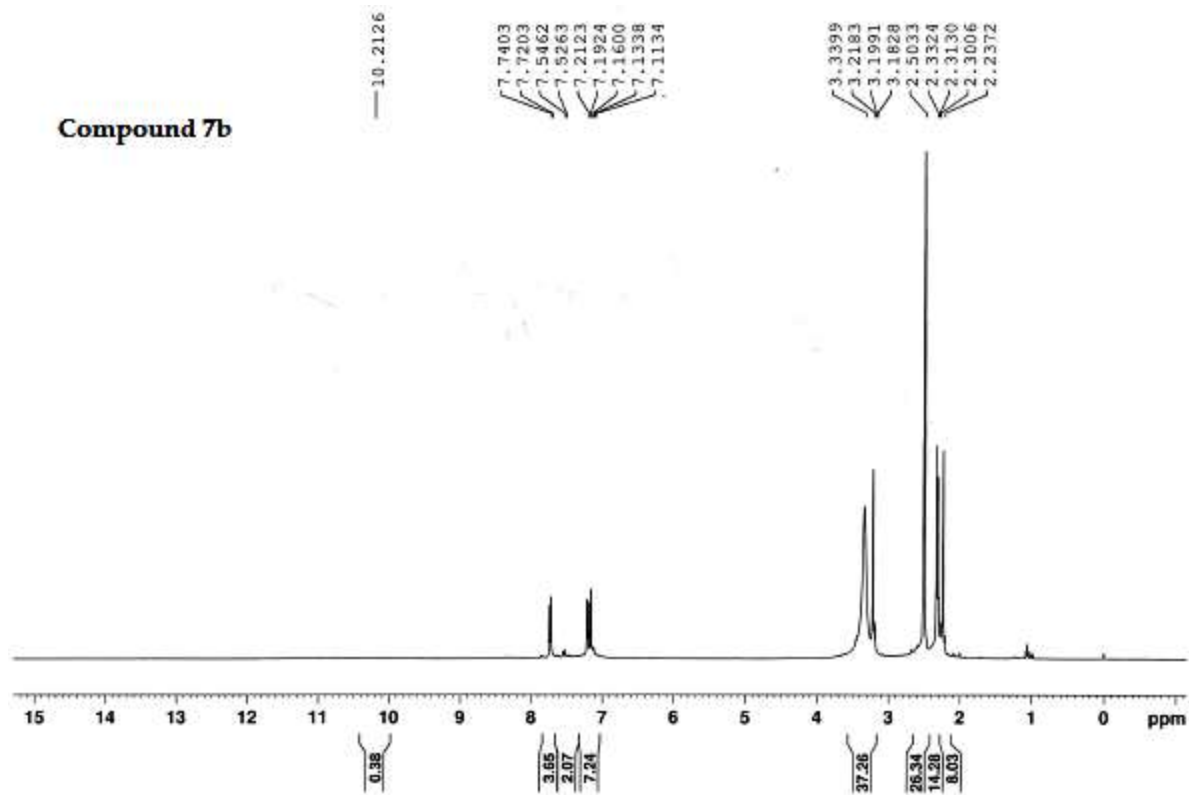
6/2018
IR
IR
MAC

[Result of Peak Picking]

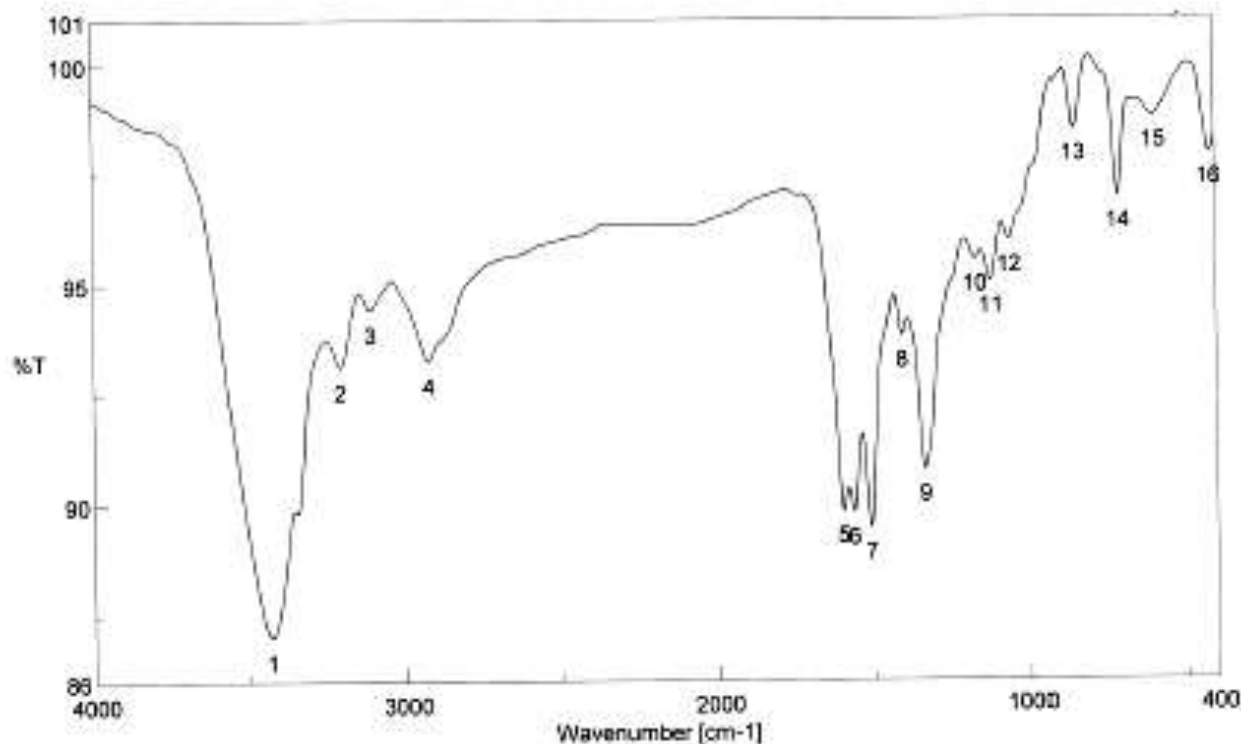
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3424.96	92.2504	2	3208	95.2979	3	2920.86	94.9039
4	1514.81	91.0268	5	1386.32	92.5672	6	1316.18	90.4977
7	1202.4	92.9342	8	1090.55	92.5501	9	818.634	96.484
10	762.709	98.0171	11	688.463	94.7678	12	597.825	95.6226
13	429.084	94.7818						



Compound 7b



Peak Find - Memory-77



[Comments]
Sample name
Comment
User
Division
Company

Compound 7c

6/2018
IR
IR
MAC

[Result of Peak Picking]

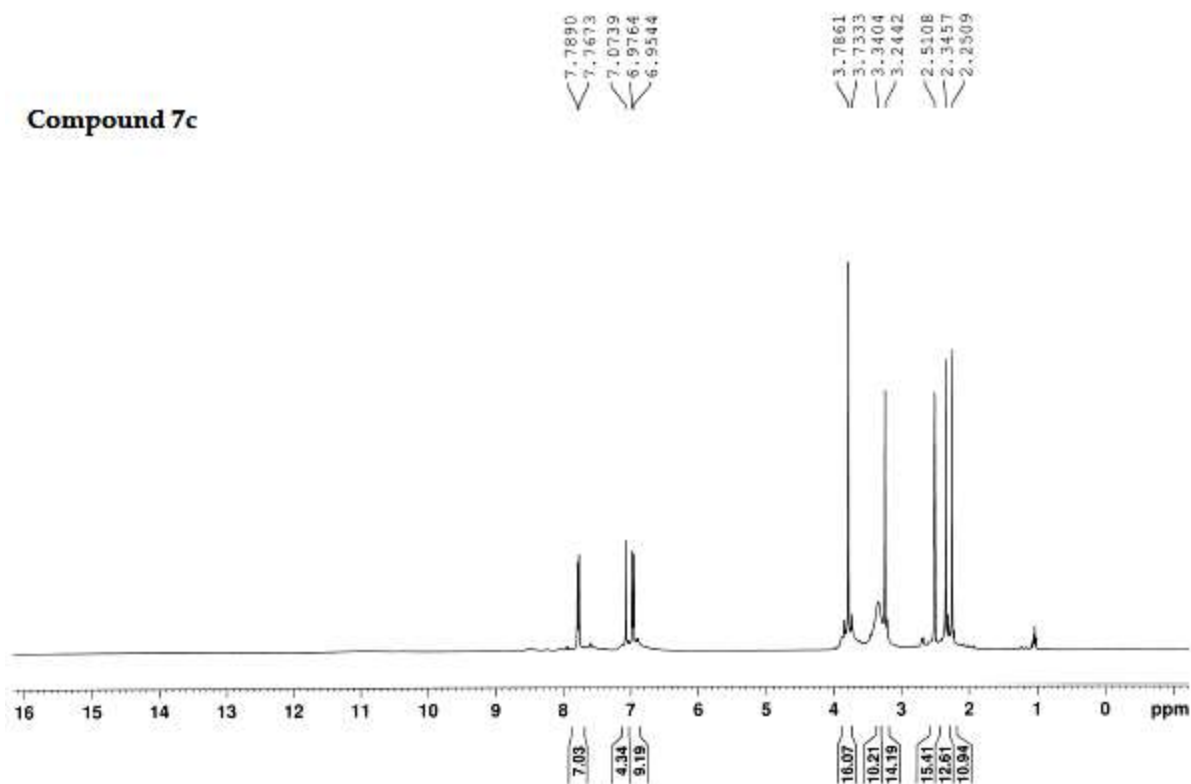
No.	Position	Intensity
1	3431.71	87.0209
4	2925.48	93.244
7	1509.03	89.4465
10	1168.65	95.5139
13	854.311	98.4714
16	418.477	97.9128

No.	Position	Intensity
2	3208	93.113
5	1696.77	89.827
8	1405.85	93.7974
11	1118.51	95.0188
14	712.589	98.9257

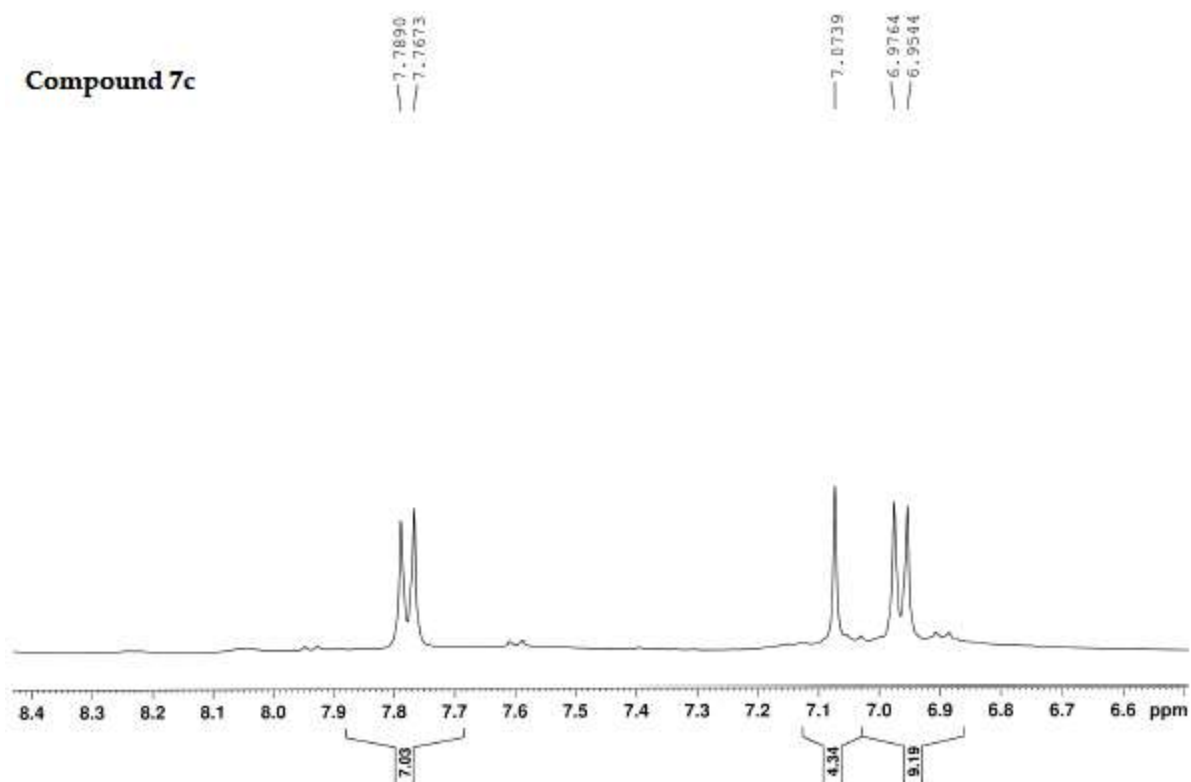
No.	Position	Intensity
3	3110.62	94.4106
6	1583.99	89.7968
9	1334.5	90.7615
12	1067.78	95.9433
15	595.896	98.7525



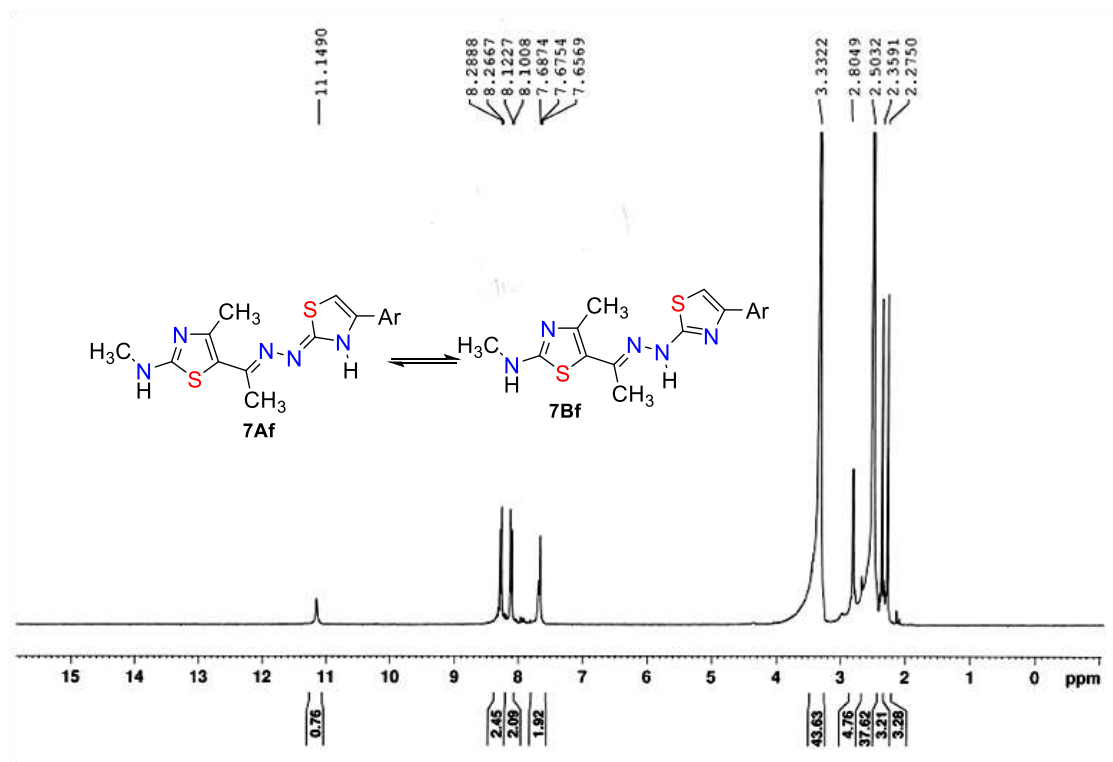
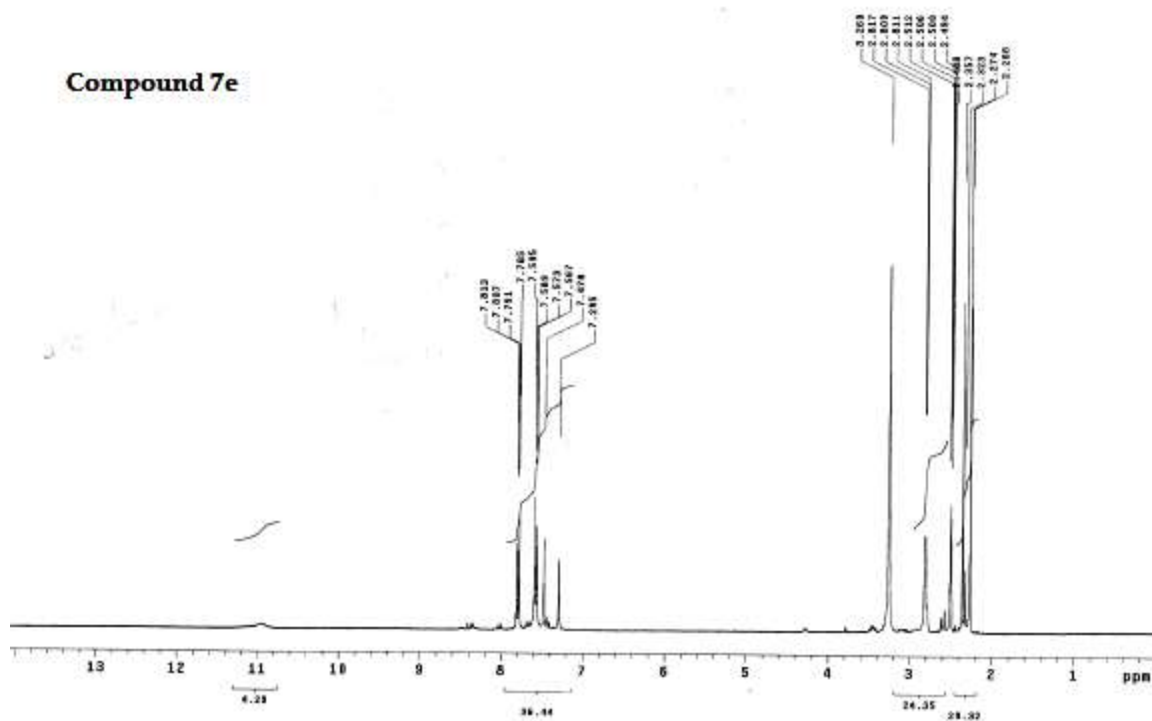
Compound 7c



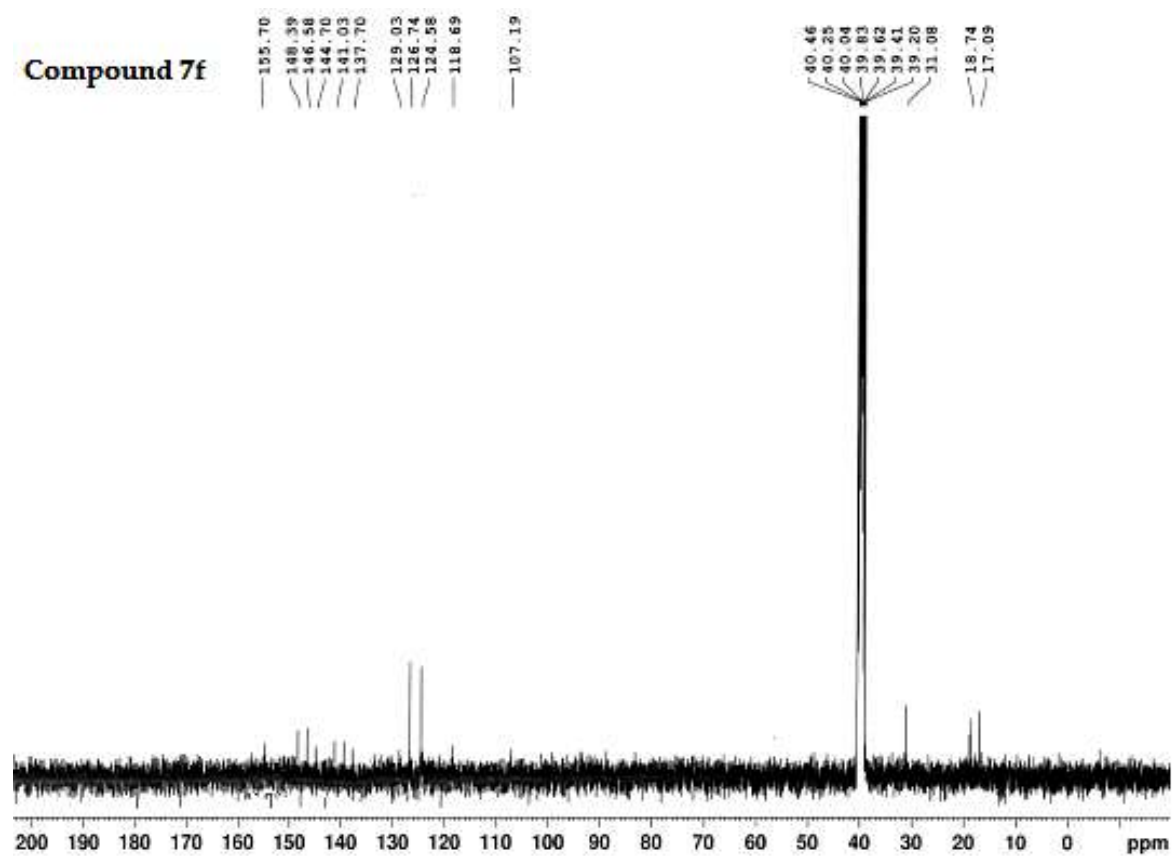
Compound 7c



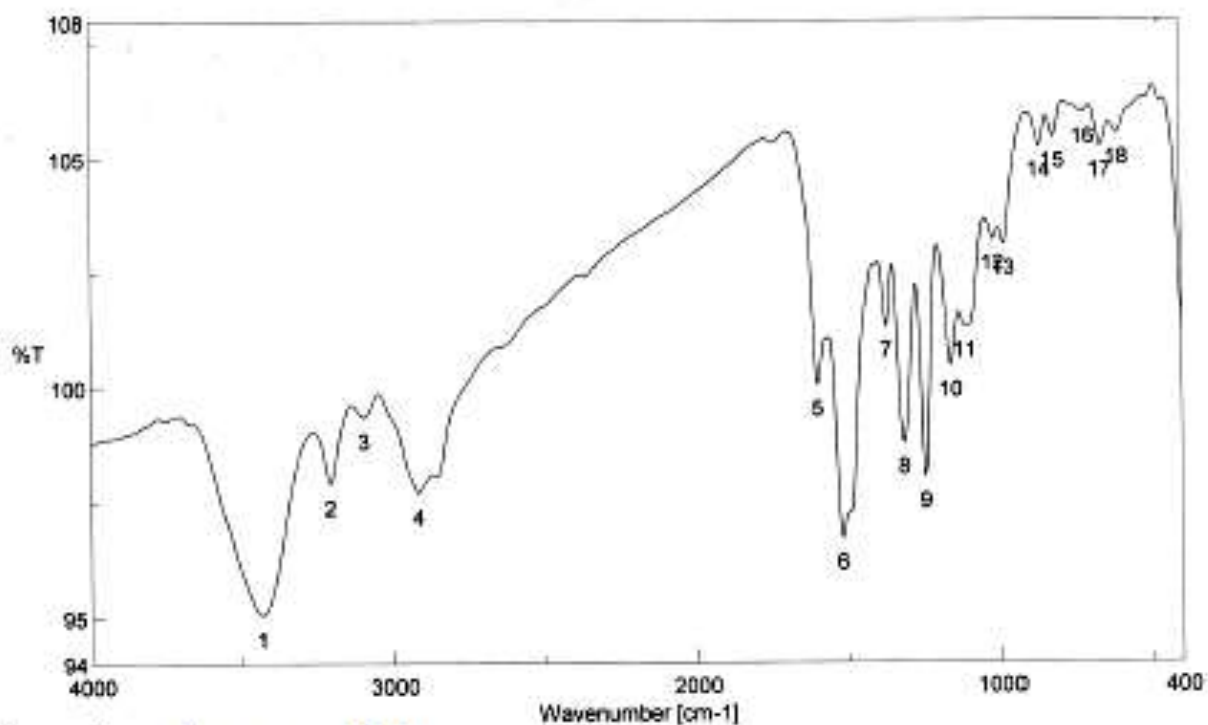
Compound 7e



Compound 7f



Peak Find - Memory-72



[Comments]
 Sample name
 Comment
 User
 Division
 Company

Compound 9a

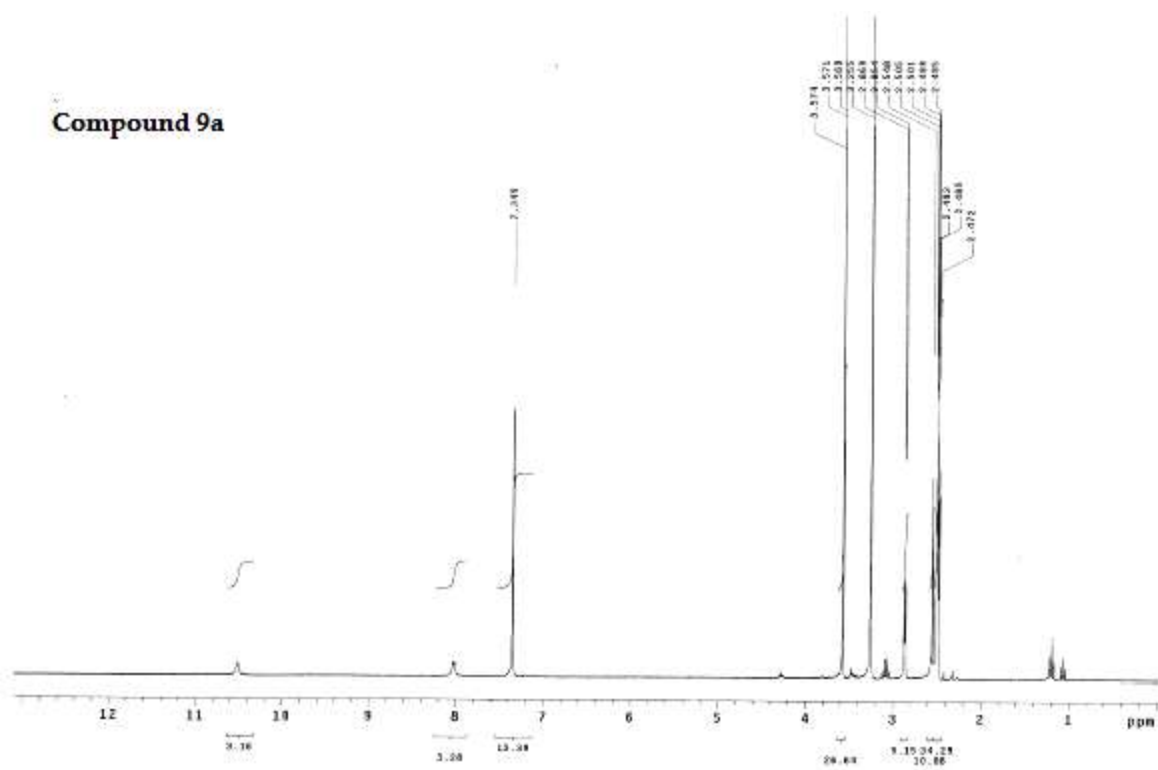
6/2018
 IR
 IR
 MAC

[Result of Peak Picking]

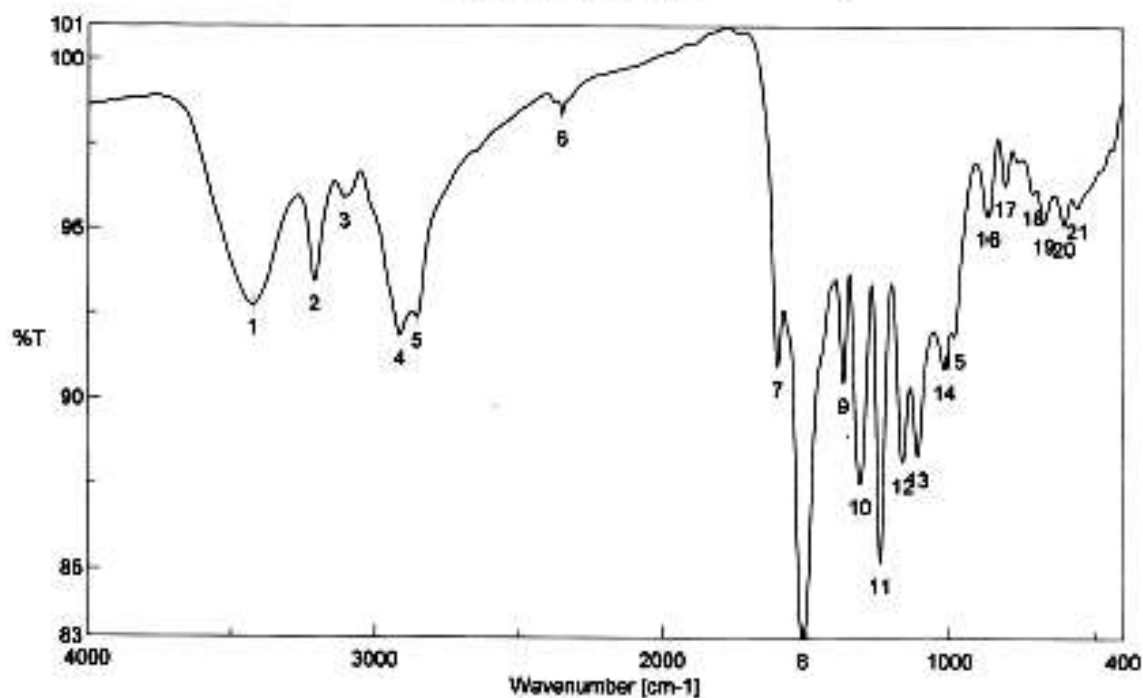
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3436.53	95.0565	2	3209.93	97.9074	3	3098.08	99.351
4	2920.66	97.7048	5	1598.7	100.04	6	1518.67	96.7069
7	1372.1	101.311	8	1315.21	96.7738	9	1244.83	98.0352
10	1160.94	100.451	11	1112.73	101.309	12	1018.23	103.2
13	983.518	103.092	14	869.739	105.244	15	823.455	105.447
16	722.211	105.974	17	666.285	105.243	18	610.36	105.52



Compound 9a



Peak Find - Memory-6



[Comments]

Sample name

Compound 9b

Comment

11/2018

User

IR

Division

IR

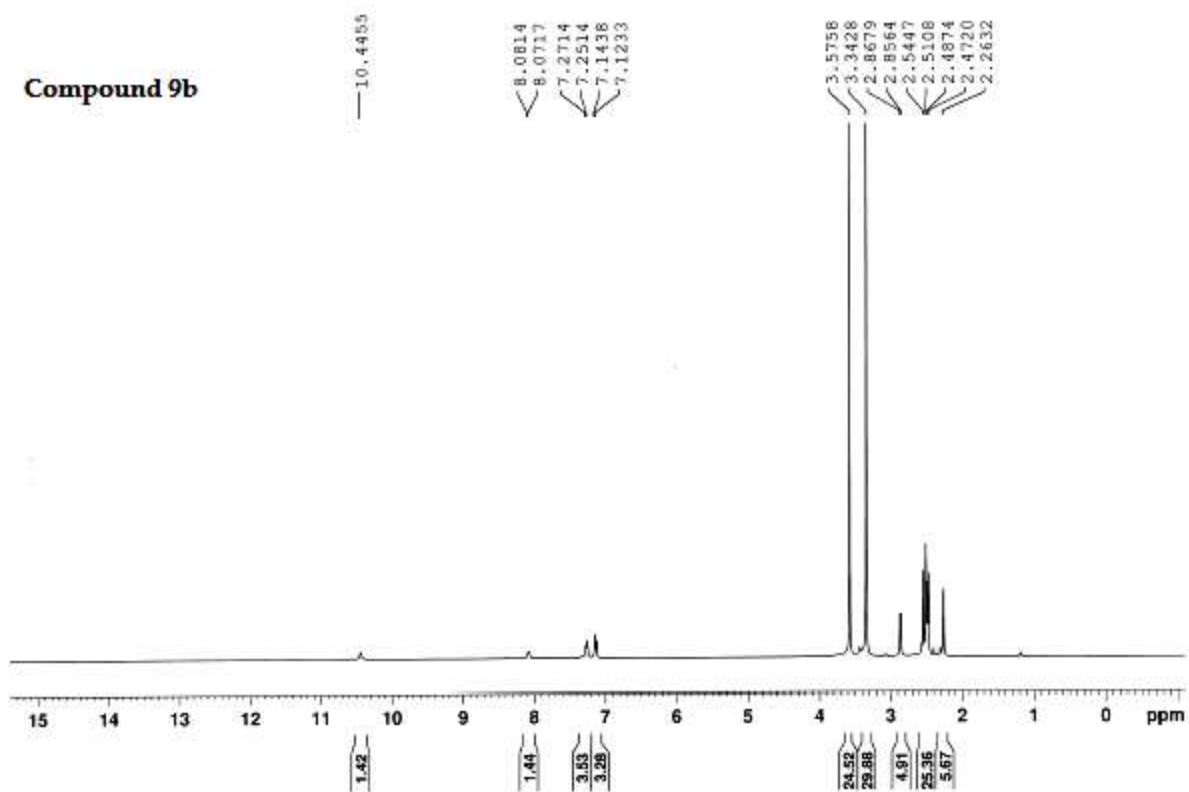
Company

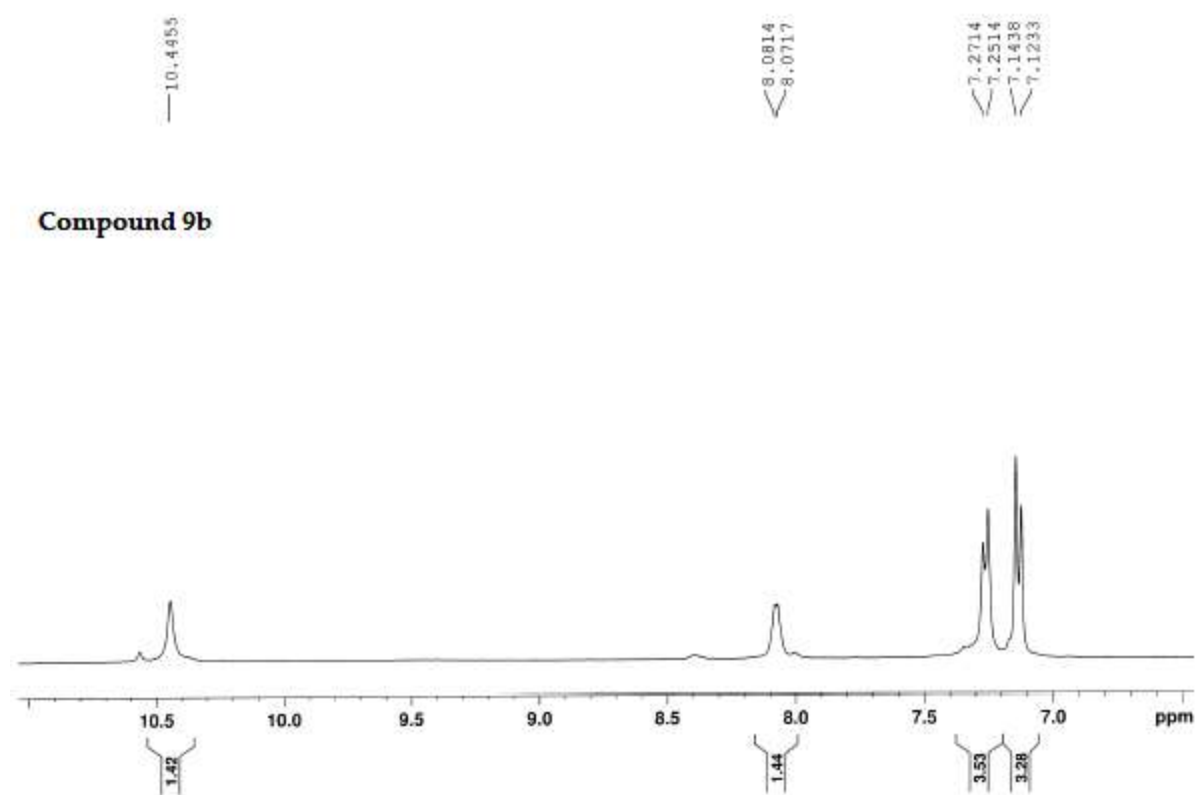
MAC

[Result of Peak Picking]

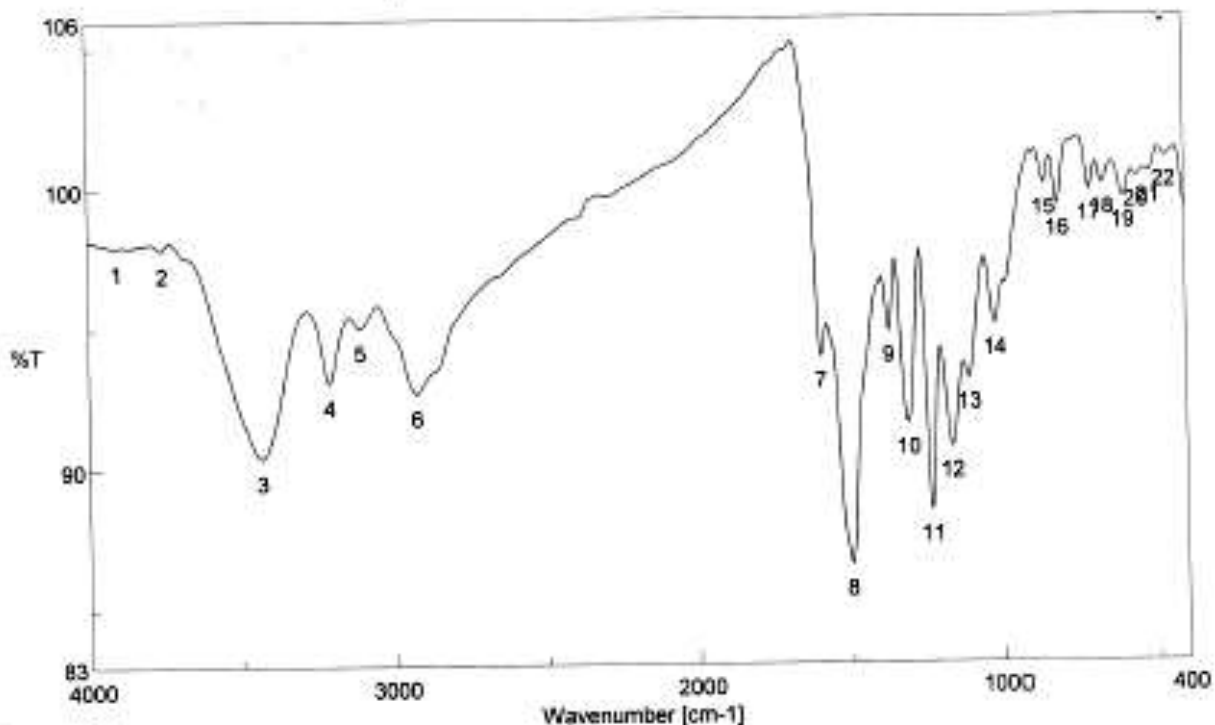
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3426.89	82.7543	2	3210.9	93.4446	3	3106.8	95.9259
4	2916.81	91.8534	5	2857.02	92.3829	6	2348.87	98.375
7	1600.63	90.8643	8	1511.92	83.0263	9	1372.1	90.4938
10	1315.21	87.5435	11	1243.86	85.2285	12	1164.79	88.1617
13	1113.89	88.3474	14	1019.19	90.9008	15	985.447	91.8334
16	969.739	95.4384	17	814.777	96.3259	18	716.425	96.067
19	677.858	95.2327	20	608.431	95.1486	21	561.184	95.8803

Compound 9b





Peak Find - Memory-47



[Comments]
Sample name
Comment
User
Division
Company

Compound 9c

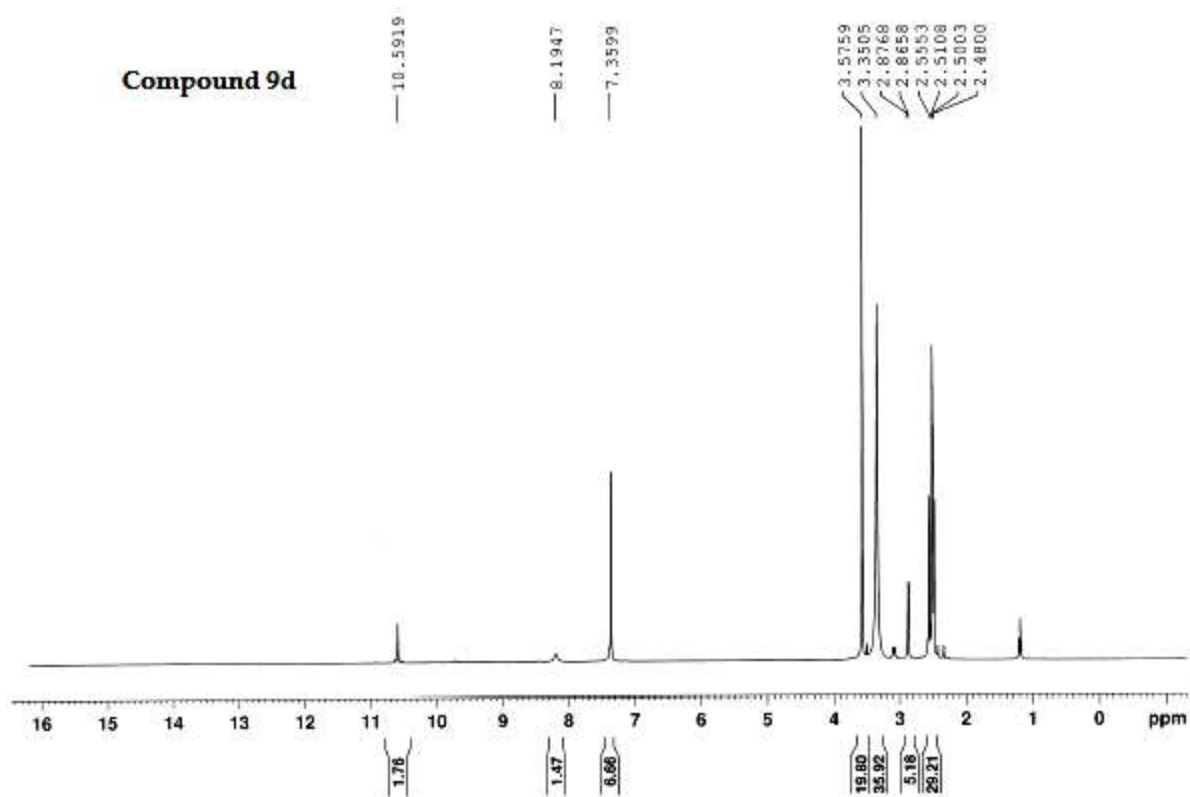
6/2018
IR
IR
MAC

[Result of Peak Picking]

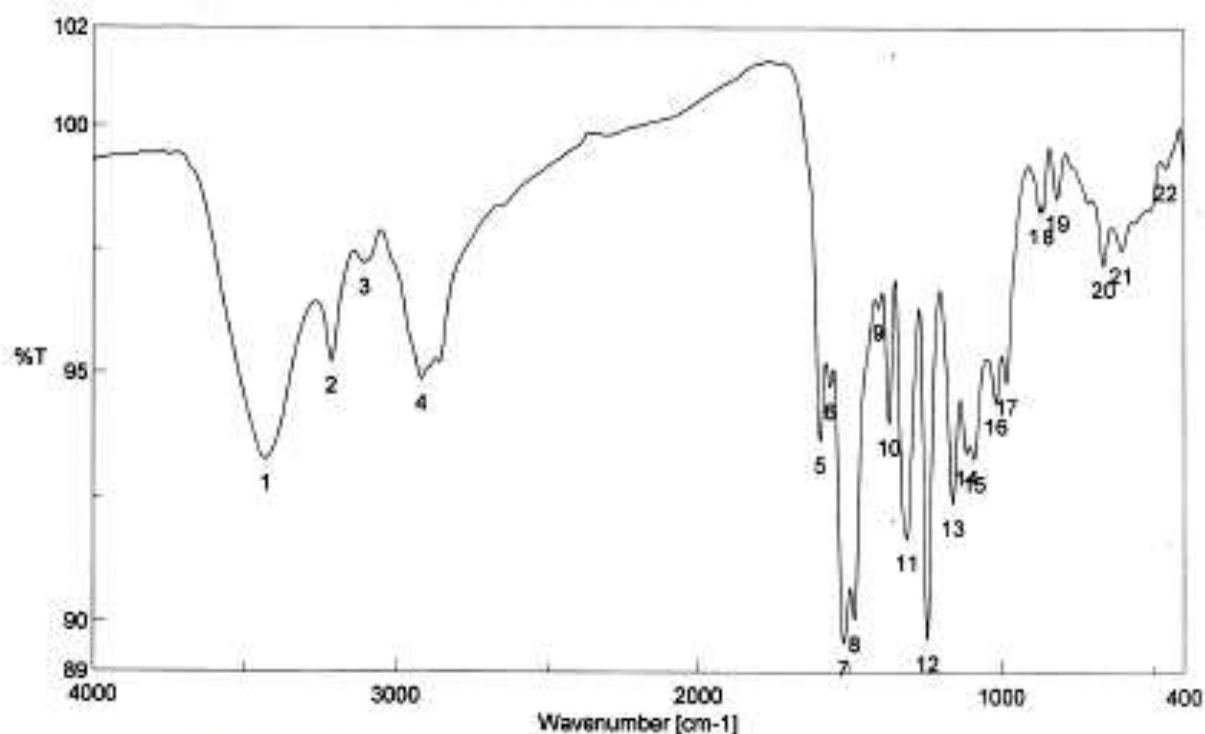
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3905.15	97.8017	2	3752.8	97.8199	3	3430.74	90.3983
4	3210.9	93.0697	5	3107.72	95.0024	6	2923.56	92.6618
7	1595.81	93.9024	8	1500.35	86.5089	9	1372.1	94.7812
10	1313.29	91.5088	11	1236.15	88.4153	12	1167.69	90.6702
13	1109.83	93.0927	14	1023.05	95.001	15	864.917	99.9623
16	820.563	99.2196	17	715.461	99.7485	18	673.035	99.9498
19	603.61	99.4827	20	558.291	100.206	21	517.793	100.348
22	464.761	100.924						



Compound 9d



Peak Find - Memory-10



[Comments]

Sample name

Comment

User

Division

Company

Compound 9d

11/2018

IR

IR

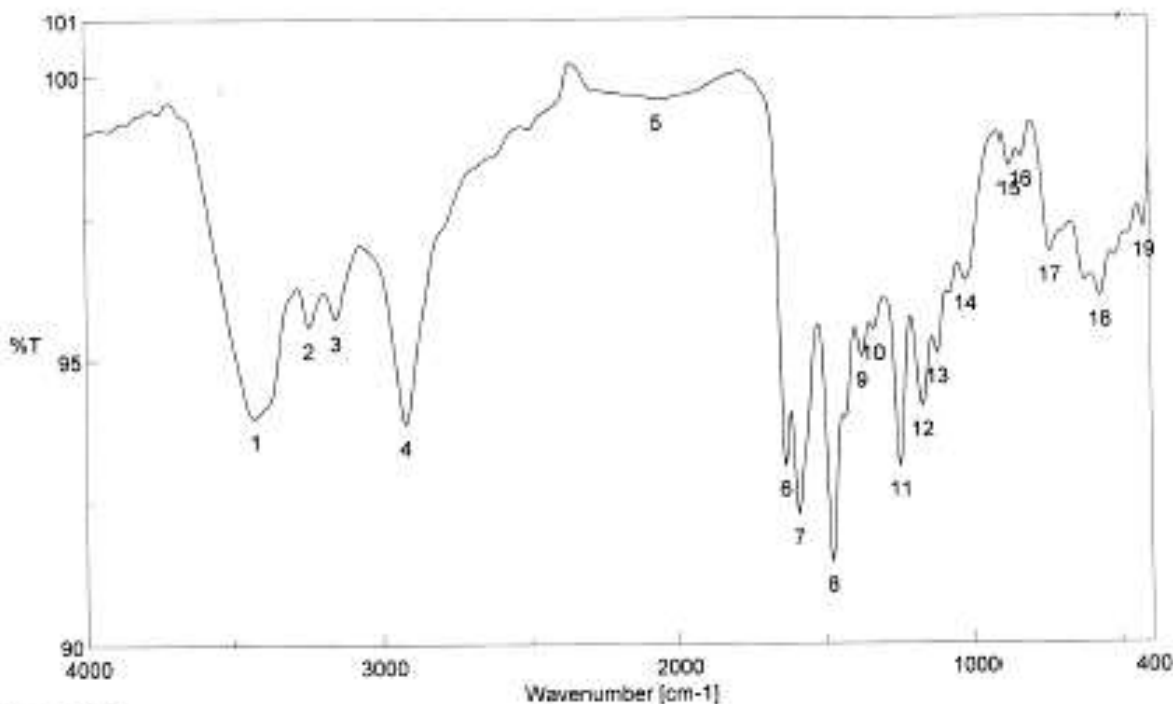
MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3427.85	93.2727	2	3210.9	95.2372	3	3103.87	97.2411
4	2915.84	94.887	5	1598.7	93.6494	6	1564.95	94.731
7	1521.56	89.5833	8	1486.85	90.0618	9	1405.85	96.3344
10	1372.1	94.0145	11	1313.29	91.6946	12	1245.79	89.8898
13	1180.94	92.3946	14	1115.62	93.4127	15	1090.55	93.2873
16	1018.23	94.4377	17	984.482	94.8284	18	889.739	98.2874
19	821.527	98.5535	20	867.25	97.213	21	808.431	97.4862
22	458.939	99.1887						



Peak Find - Memory-57



[Comments]
Sample name
Comment
User
Division
Company

Compound 9e

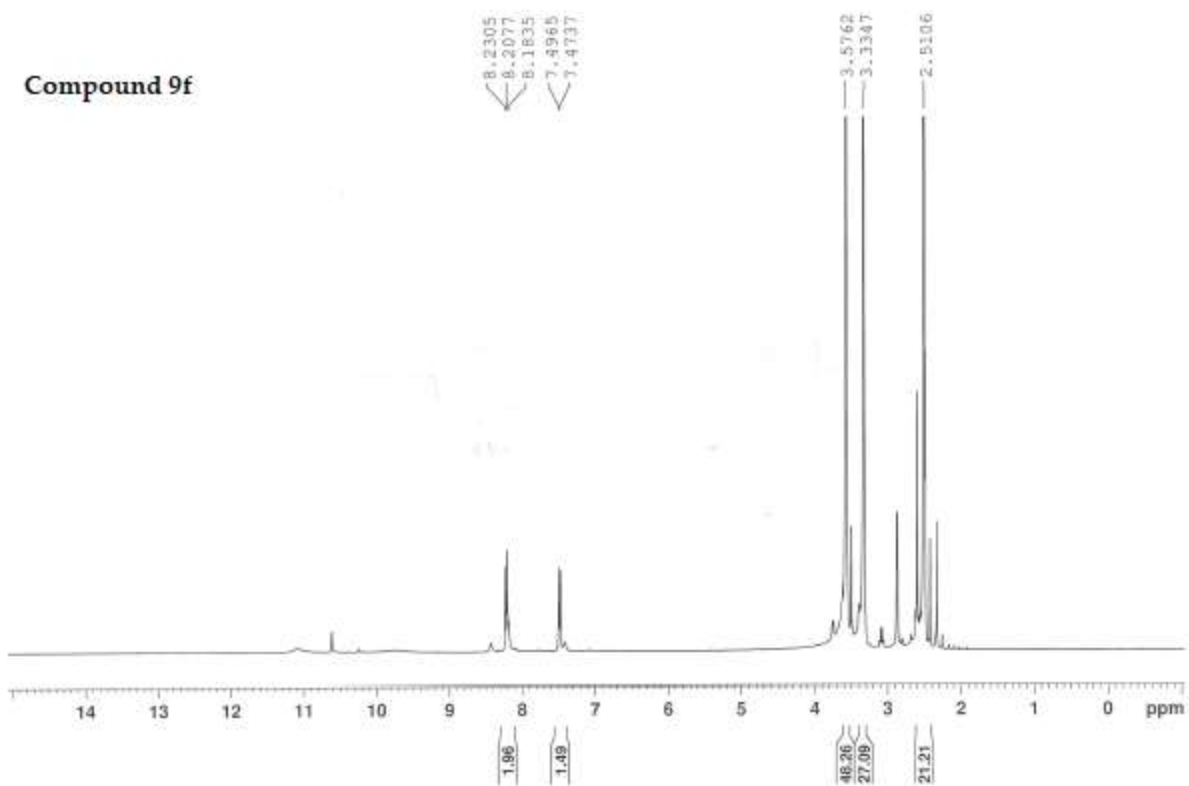
6/2018
IR
IR
MAC

[Result of Peak Picking]

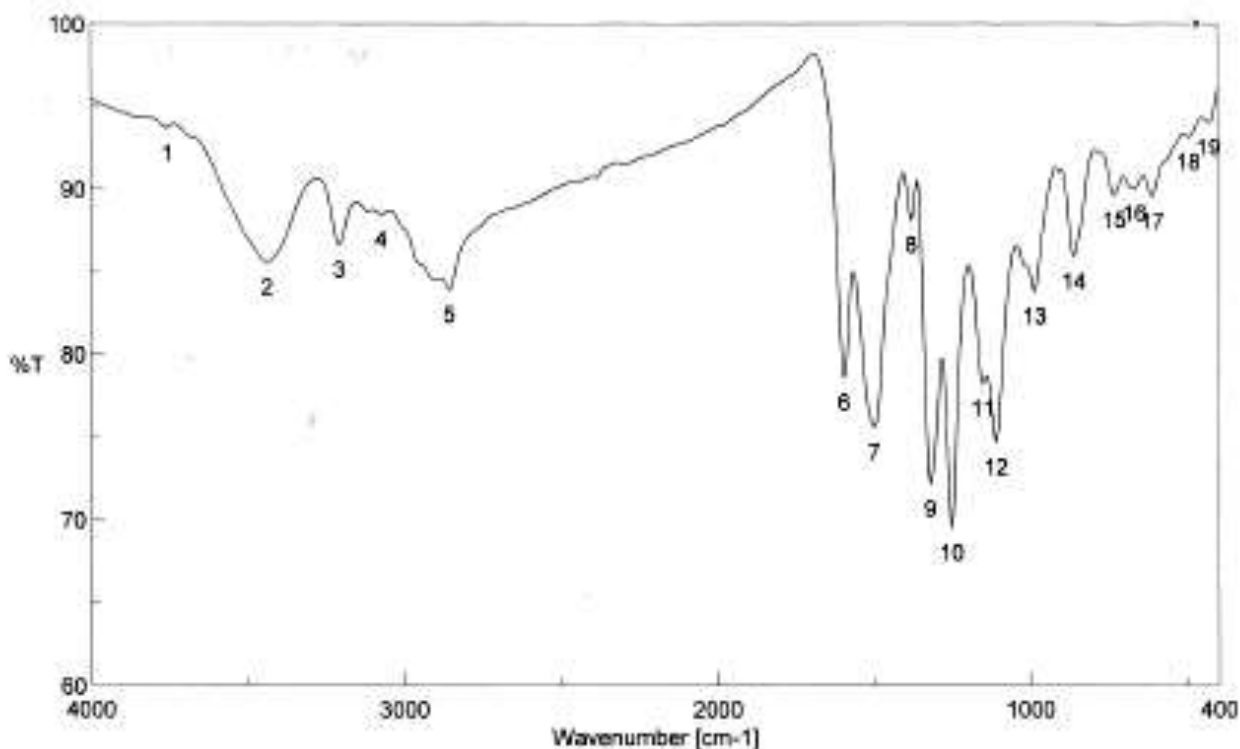
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3425.92	93.9871	2	3244.65	95.5777	3	3155.94	95.709
4	2920.65	93.8701	5	2081.53	99.5736	6	1636.3	93.1242
7	1592.91	92.2744	8	1480.1	91.4512	9	1375.96	95.0254
10	1336.43	95.4947	11	1248.68	93.1117	12	1171.54	94.1572
13	1120.44	95.0879	14	1022.09	96.356	15	877.452	98.3678
16	837.919	98.5354	17	741.496	98.8545	18	572.755	96.0636
19	421.37	97.2842						



Compound 9f



Peak Find - Memory-81



[Comments]
Sample name
Comment
User
Division
Company

Compound 9f

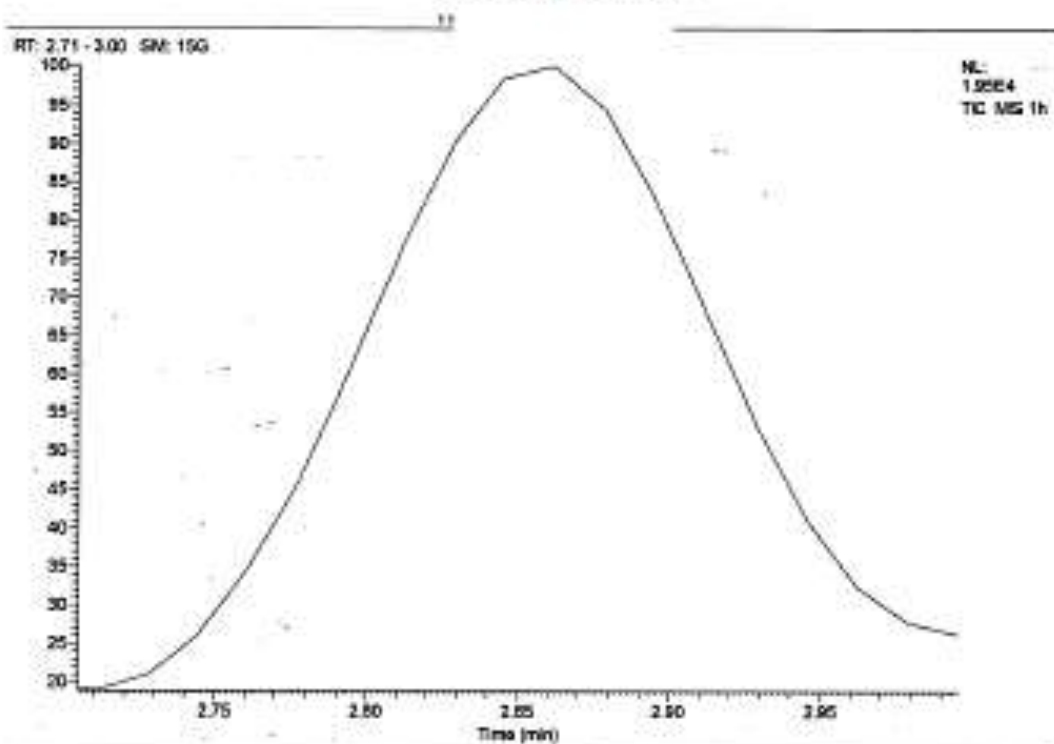
6/2018
IR
IR
MAC

[Result of Peak Picking]

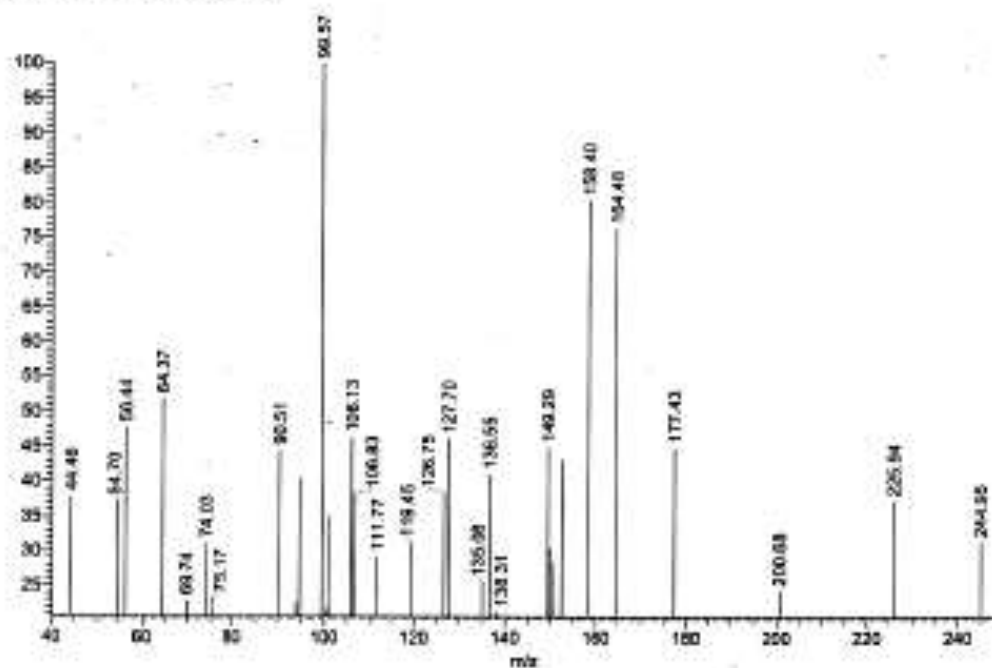
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3753.76	93.6764	2	3432.67	85.5676	3	3204.15	86.5943
4	3070.12	88.4359	5	2853.17	83.8747	6	1593.88	78.5774
7	1497.45	75.5644	8	1375.96	88.1027	9	1319.07	72.1368
10	1251.58	69.4994	11	1150.33	78.2055	12	1107.9	74.645
13	982.554	83.7813	14	862.989	85.89	15	733.782	89.6946
16	668.214	89.986	17	612.288	89.5281	18	494.652	93.1383
19	429.084	94.0449						



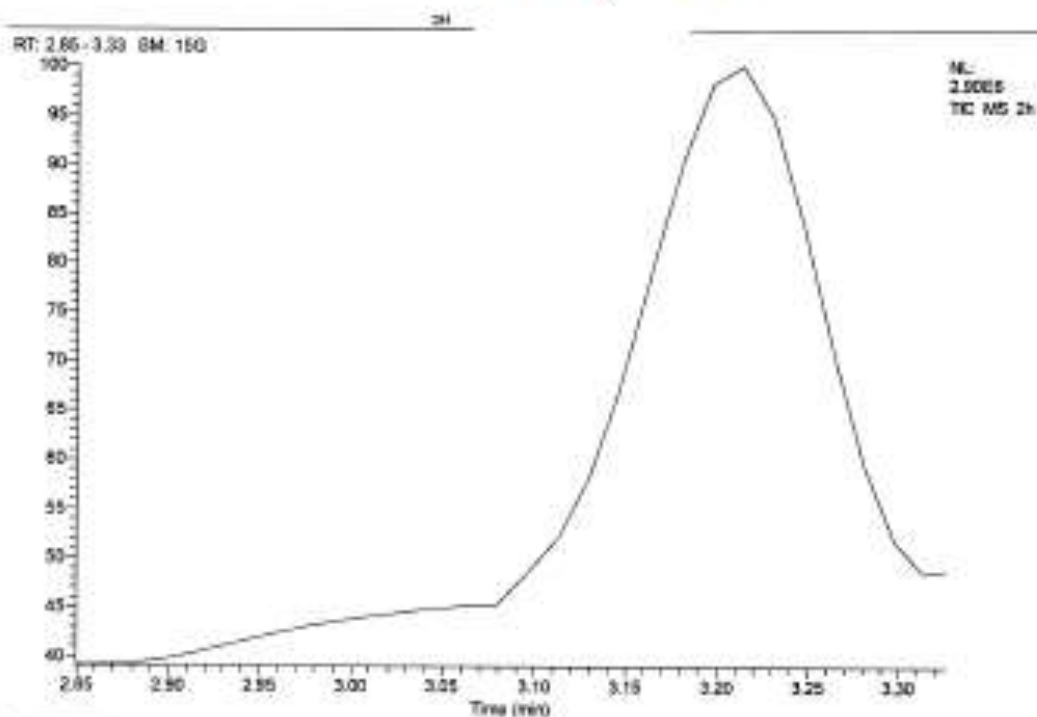
Compound 3



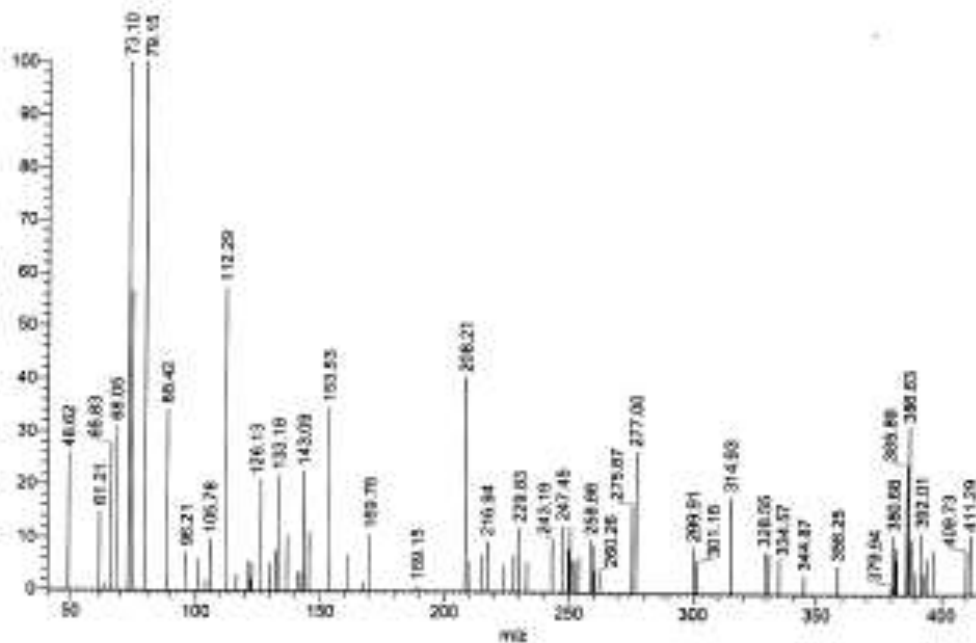
164201 RT: 3.38 AU: 1 NL: 3.27E2
T: (DQ) + c EI Full ms (40.00-1000.00)



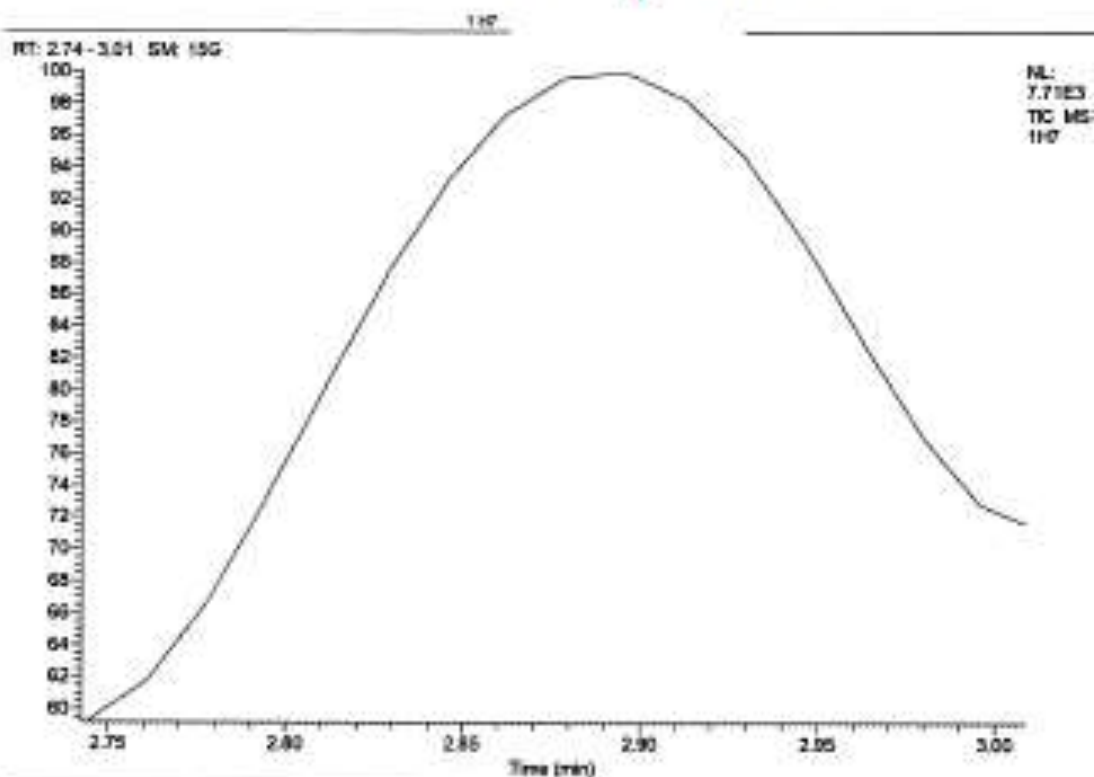
Compound 5



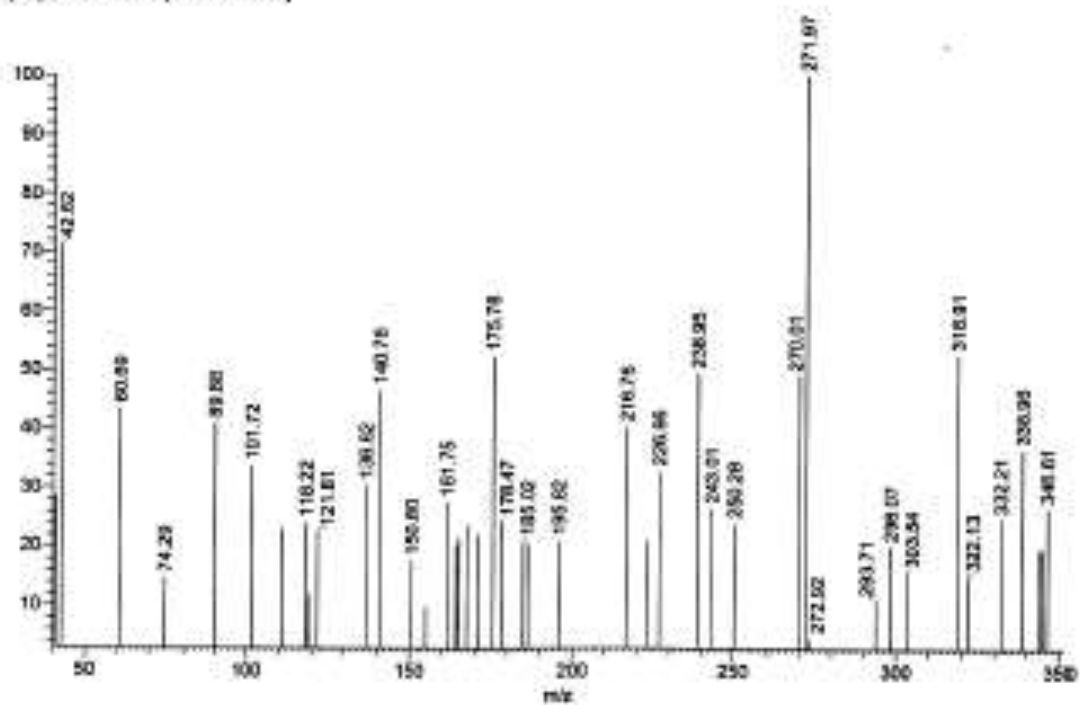
2h MS RT: 1.36 AV: 1 SB: 10 1.31-1.41 1.42-1.46 ML: 1.07E3
T: (0.0) + c (0.0) Full ms (40.00-1000.00)



Compound 7a

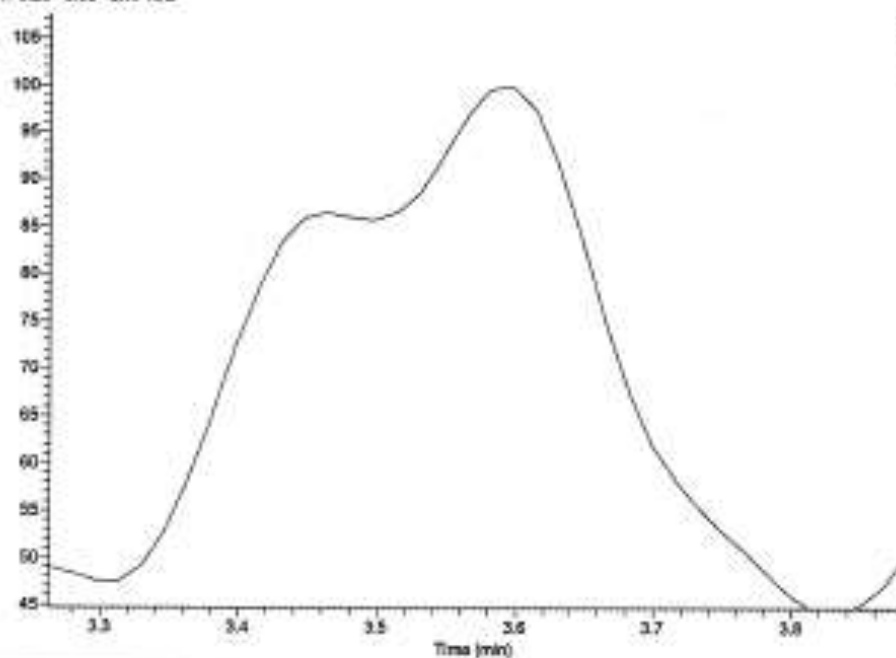


110° #190-192 RT: 3.20-3.23 AV: 3 SB: 9 2.51-2.63 2.48 NL: 1.71E3
T: (0.0) +e El Fullres [40.00-1000.00]



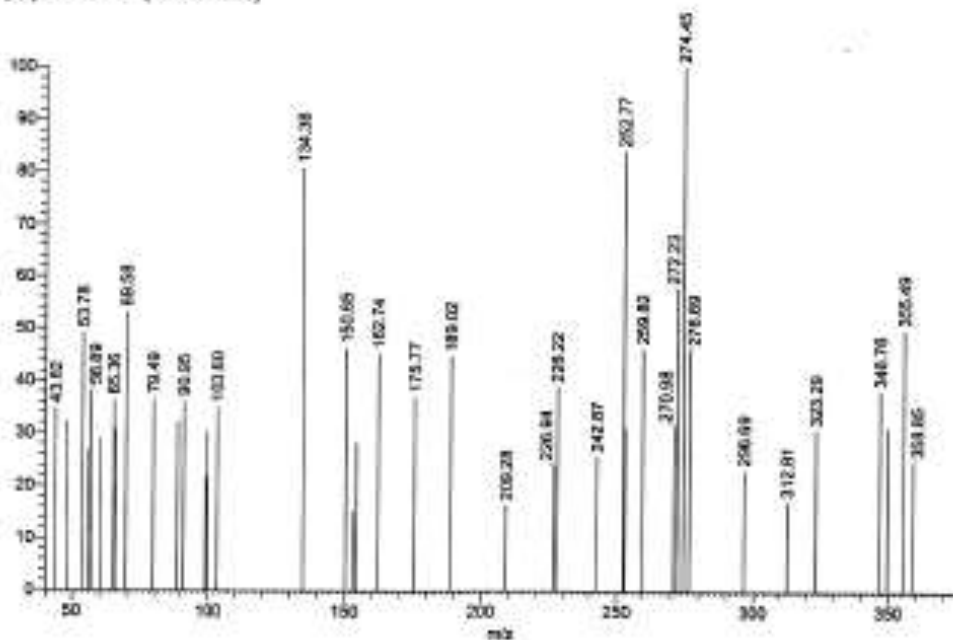
Compound 7b

RT: 3.26 - 3.88 SM: 150

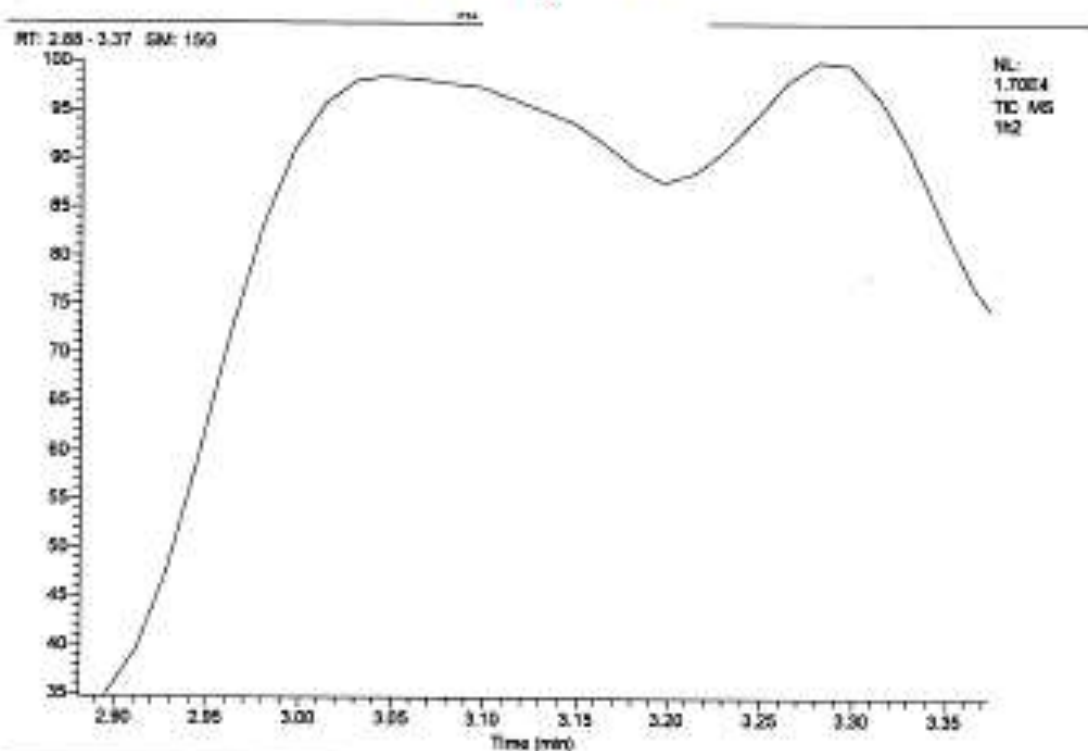


NL:
2.55E4
TIC MS
TIC

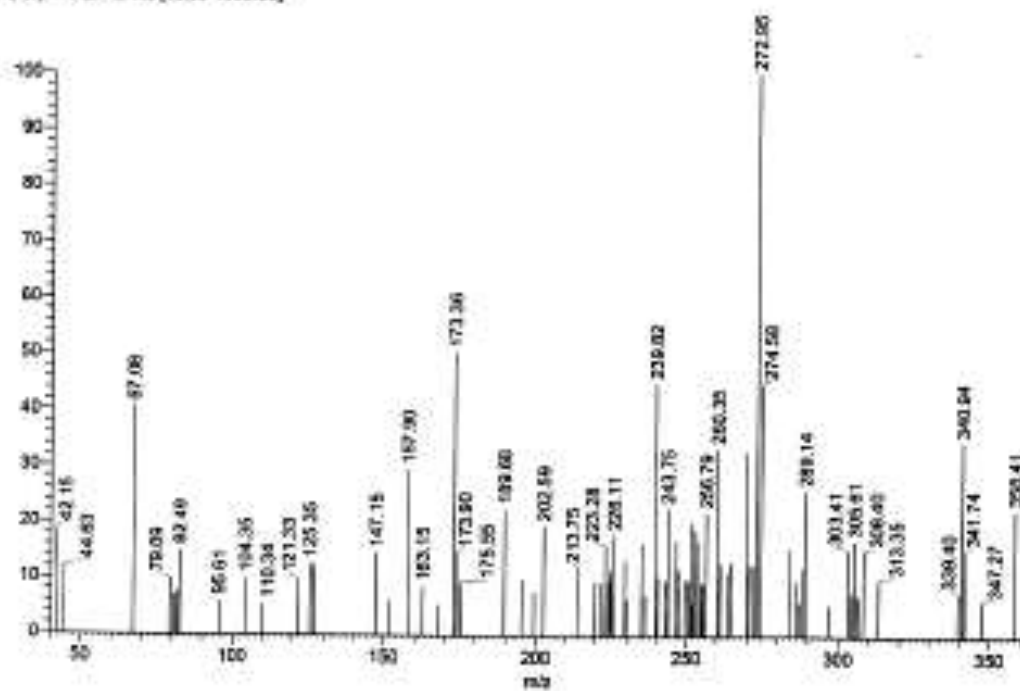
196 #289 RT: 4.75 AV: 1 NL: 3.12E2
T: (0.0) + c B1 Full ms (40.00-1000.00)



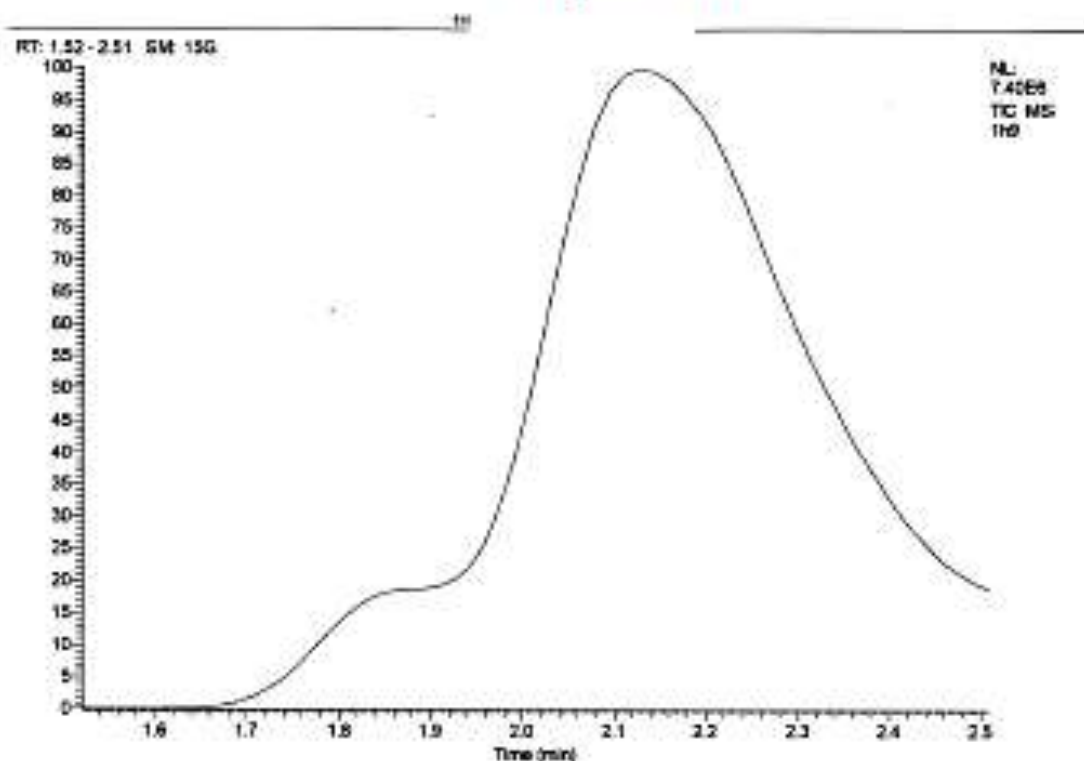
Compound 7d



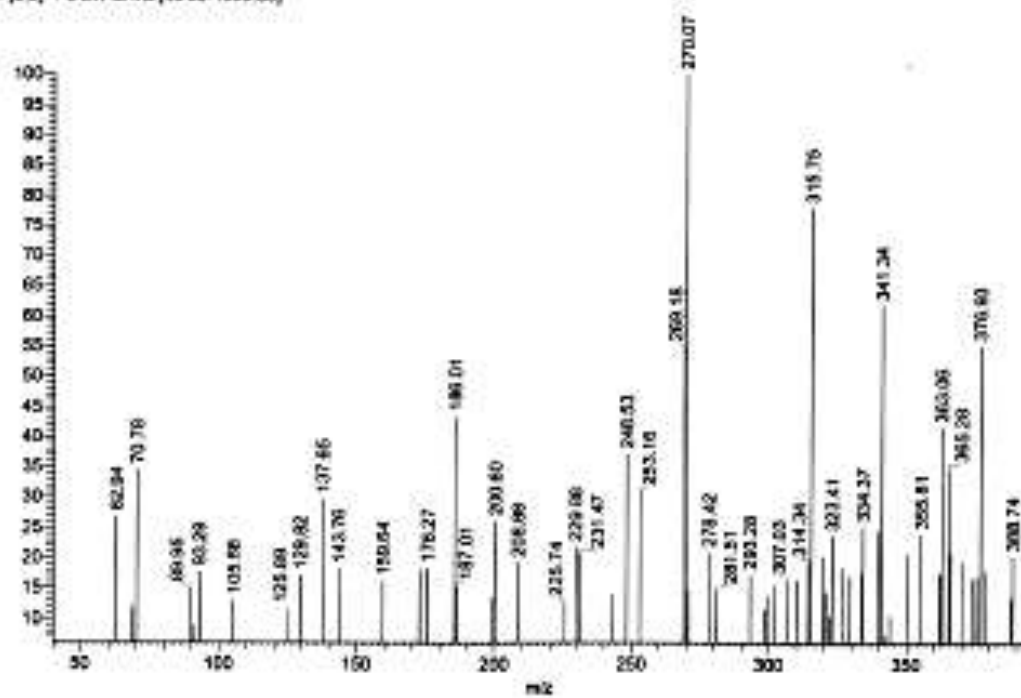
1H2 #151 RT: 2.54 AU: 1 NL: 0.67E2
T: (0.0) + c.E) Full ms (40.00-1000.00)



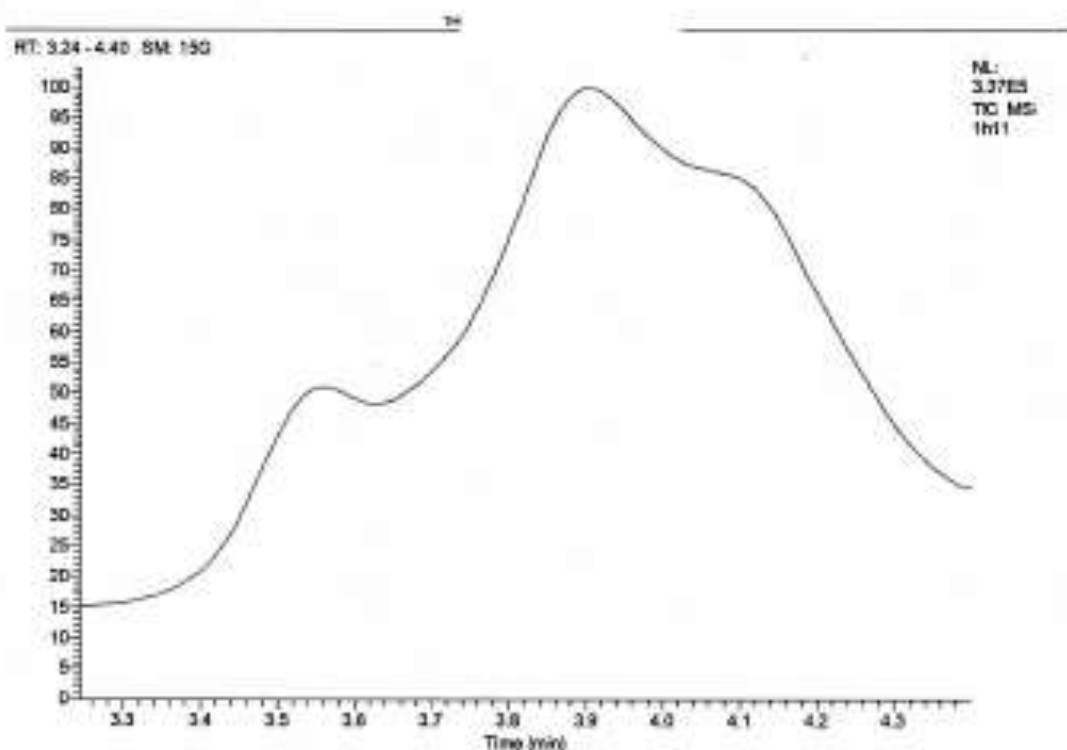
Compound 7f



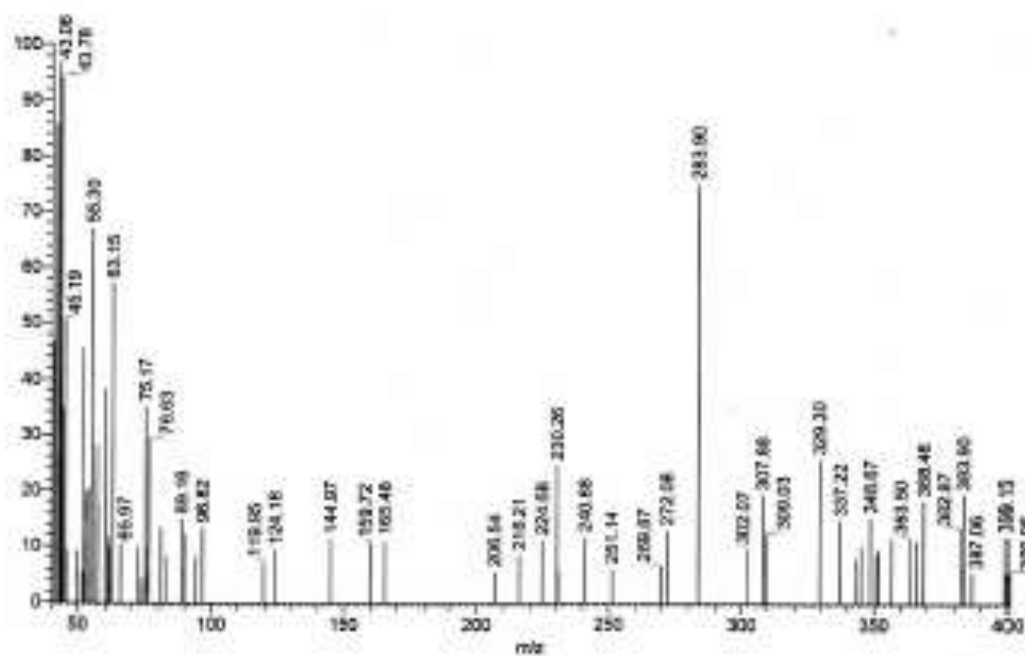
1H9 A231 RT: 3.88 AV: 1 NL: 7.0202
T: [0.0] + c EI Full ms (40 00-1000.00)



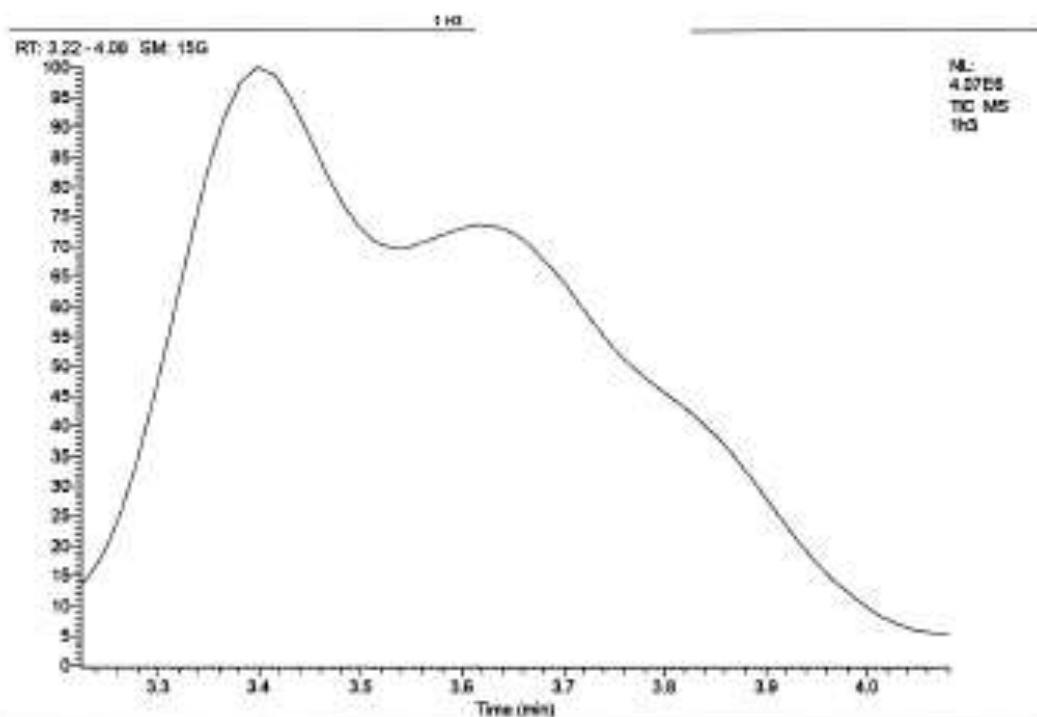
Compound 9b



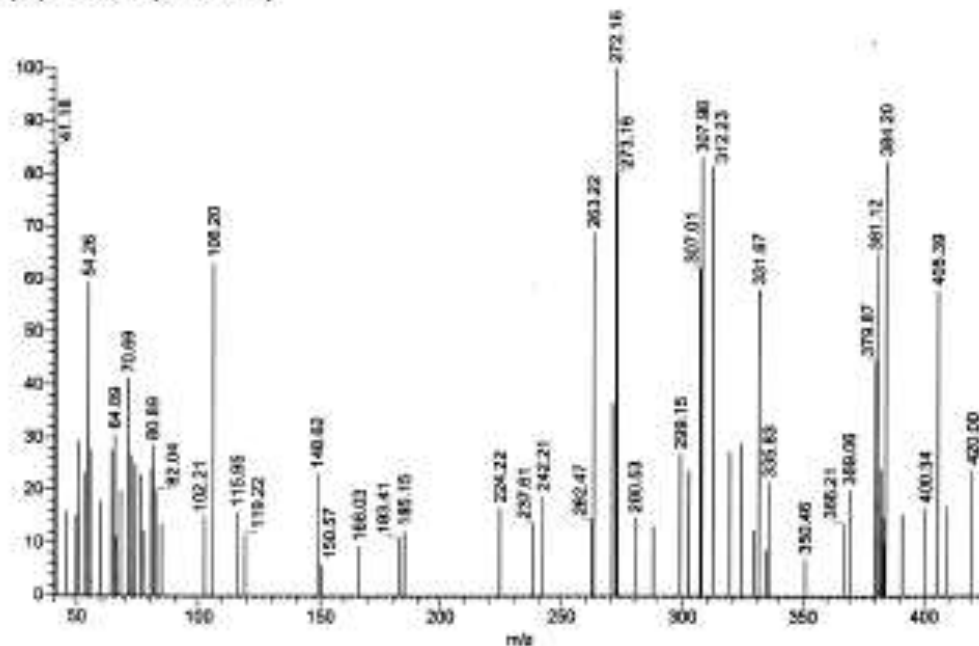
1h11 #150 RT: 3.25 AV: 1 NL: 1.42E3
T: (3.0) + 5 E1 Full ms (40.00-1000.00)



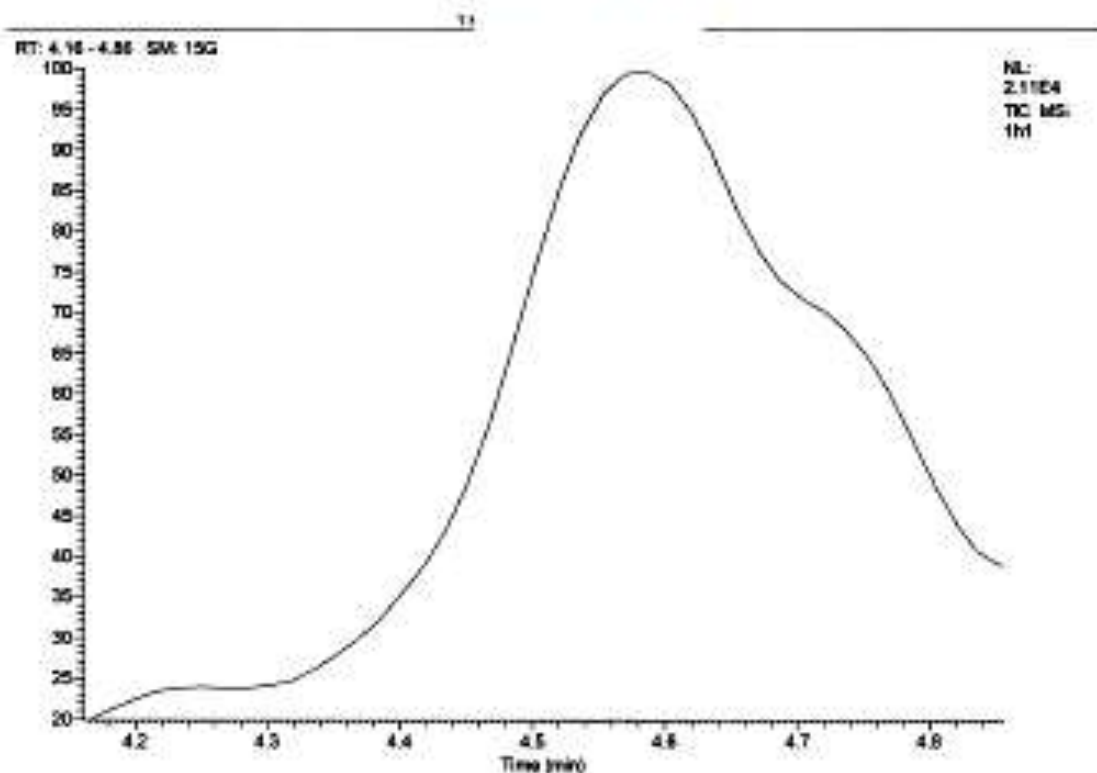
compound 9d



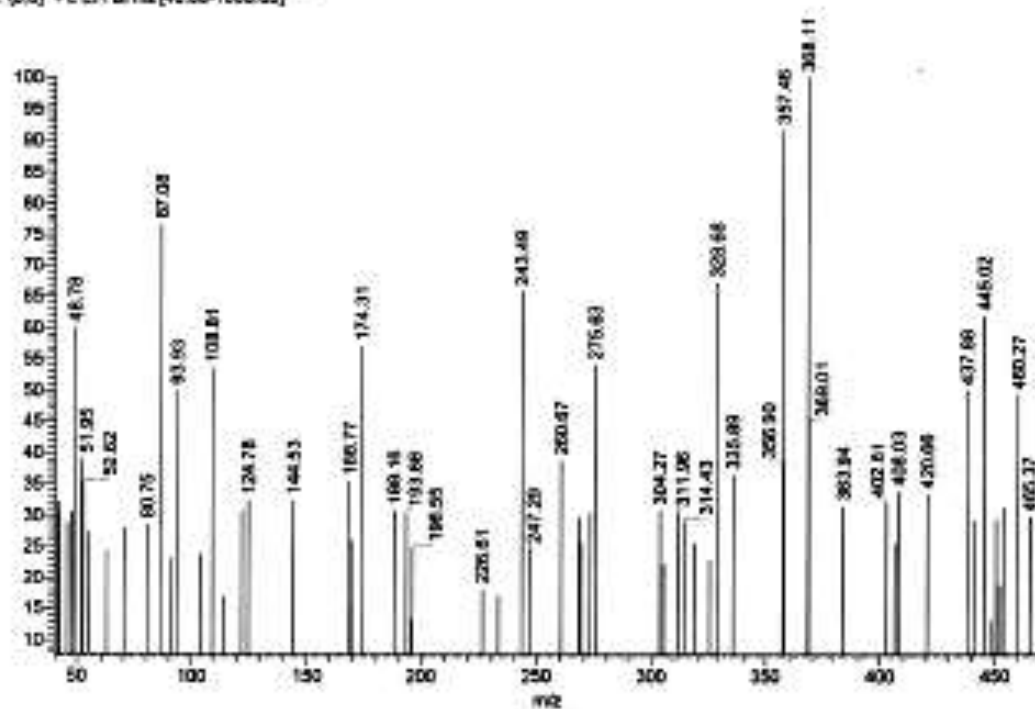
1h3 #262 RT: 4.40 AV: 1 NL: 6.37E2
T: [0.0] + e ElFulm [40.00-1000.00]



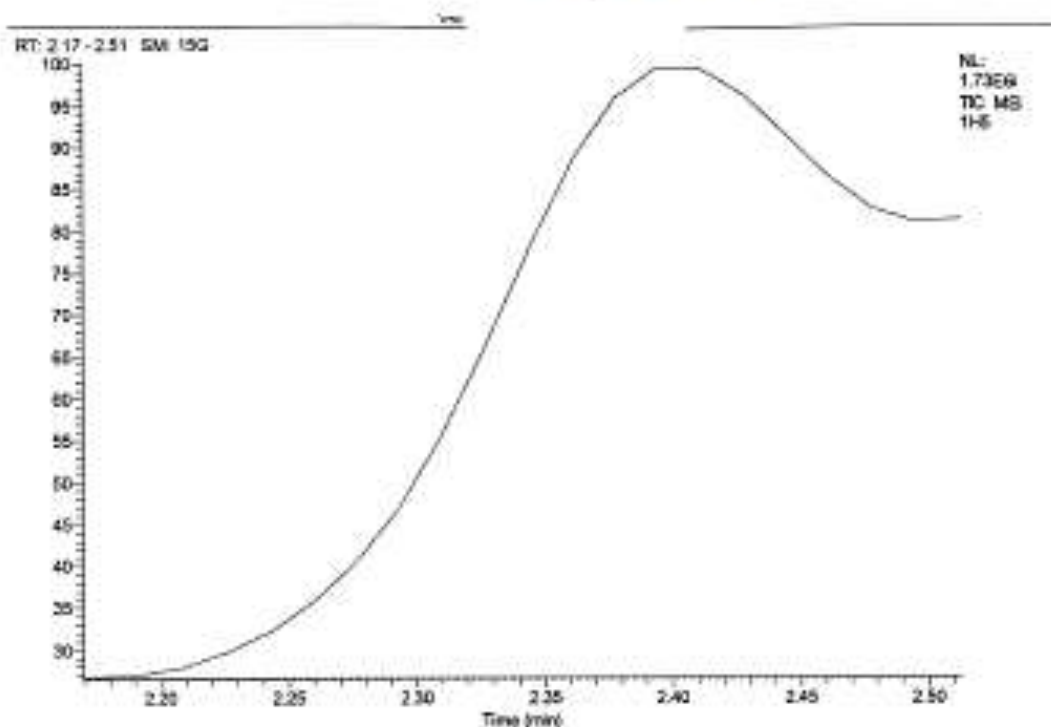
Compound 9e



1h1#173 RT: 2.91 AV: 1 NL: 3.53E2
T: (0.0) + c (1) Full ms (40.00-1000.00)



Compound 9f



116 40234 RT: 3.03 AV: 1 SB: 14 3.80-3.87, 3.77-3.80 NL: 2.64E3
T: (0.0) + c E) Full ms (40.00-1000.00)

