

## Supporting Information

### A convergent and efficient synthesis of 1,2,4-triazolo[5,1-*b*]quinazolin-8-ones using copper incorporated hydroxyapatite encapsulated Kit-6 as a recoverable nanocatalyst

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#### Selected spectral data

##### 9-(4-Chloro-phenyl)-6,6-dimethyl-5,6,7,9-tetrahydro-4*H*-1,2,4-triazolo[5,1-*b*]quinazolin-8-one (7b)

Mp 292-295 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3443 (N-H), 2969 (CH), 1655 (C=O), 1582, 1484 (C=C), 1359 (CH<sub>3</sub>), 1091 (C-Cl). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 1.00 (s, 3H, CH<sub>3</sub>), 1.07 (s, 3H, CH<sub>3</sub>), 2.12 (d,  $J = 16.2$  Hz, 1H), 2.26 (d,  $J = 16.2$  Hz, 1H), 2.52–2.60 (m, 2H), 6.44 (s, 1H), 7.60–7.70 (m, 2H, Ar-H), 7.75 (s, 1H), 8.07-8.14 (m, 2H), 11.21 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.6, 151.8, 150.9, 148.1, 144.0, 134.2, 130.5, 122.2, 105.1, 57.9, 50.2, 39.1, 32.7, 28.8, 27.4.

##### 6,6-Dimethyl-9(3-nitro-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-*b*]quinazolin-8(4*H*)-one (7c)

Mp 266–268 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3449 (N-H), 2959 (CH), 1651 (C=O), 1533, 1346 (NO<sub>2</sub>), 1583, 1482 (C=C), 1370 (CH<sub>3</sub>). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 0.98 (s, 3H, CH<sub>3</sub>), 1.04 (s, 3H, CH<sub>3</sub>), 2.07-2.27 (m, 2H), 2.52-2.58 (m, 2H), 6.18 (s, 1H), 7.12 (m, 1H, Ar-H), 7.44 (d,  $J = 8.1$  Hz, 1H), 7.67 (s, 1H), 7.74 (s, 1H), 7.86 (d,  $J = 8.1$  Hz, 1H), 11.15 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.5, 151.1, 150.6, 148.2, 147.3, 141.4, 136.1, 130.1, 128.3, 127.4, 105.8, 58.0, 50.2, 39.2, 32.7, 28.9, 27.6.

##### 6,6-dimethyl-9-phenyl-5,6,7,9-tetrahydro-4*H*-1,2,4-triazolo[5,1-*b*]quinazolin-8-one (7d)

Mp 250-251 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3447 (N-H), 2961 (CH), 1684 (C=O), 1567, 1475 (C=C). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 0.99 (s, 3H, CH<sub>3</sub>), 1.07 (s, 3H, CH<sub>3</sub>), 2.10 (d,  $J = 16.2$  Hz, 1H), 2.25 (d,  $J = 16.2$  Hz, 1H), 2.51–2.58 (m, 2H), 6.23 (s, 1H), 7.19–7.34 (m, 5H, Ar-H), 7.70 (s, 1H), 11.20 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.5, 151.0, 150.5, 147.4, 142.1, 128.7, 128.2, 127.4, 106.1, 58.4, 50.3, 39.1, 32.7, 29.0, 27.3.

##### 6,6-Dimethyl-9(3-methoxyphenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-*b*]quinazolin-8(4*H*)-one (7e)

Mp > 300 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3239 (N-H), 2963 (CH), 1756 (C=O), 1642, 1473, 1476 (C=C), 1363 (CH<sub>3</sub>), 1249, 1029 (C-O). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 1.00 (s, 3H, CH<sub>3</sub>), 1.07 (s, 3H, CH<sub>3</sub>), 2.16 (d,  $J = 16.2$  Hz, 1H), 2.25 (d,  $J = 16.2$  Hz, 1H), 2.50–2.58 (m, 2H), 3.72 (s, 3H, OCH<sub>3</sub>), 6.21 (s, 1H), 6.75–6.84 (m, 3H, Ar-H), 7.22 (t,  $J = 8.1$  Hz, 1H), 7.72 (s, 1H), 11.16 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.5, 159.6, 151.0, 150.5, 147.3, 143.6, 129.9, 119.5, 113.7, 113.1, 106.0, 58.2, 55.4, 50.3, 32.7, 29.0, 27.2.

##### 6,6-Dimethyl-9(2-methoxy-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-*b*]quinazolin-8(4*H*)-one (7f)

Mp 242-244 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3235 (N-H), 2971 (CH), 1645 (C=O), 1578, 1559, 1489 (C=C), 1365 (CH<sub>3</sub>), 1245, 1021 (C-O). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 0.94 (s, 3H, CH<sub>3</sub>), 1.06 (s, 3H, CH<sub>3</sub>), 2.02 (d,  $J = 16.2$  Hz, 1H), 2.22 (d,  $J = 16.2$  Hz, 1H), 2.44 (d,  $J = 16.8$  Hz, 1H), 2.59 (d,  $J = 16.8$  Hz, 1H), 3.65 (s, 3H, OCH<sub>3</sub>), 6.37 (s, 1H), 6.85–6.94 (m, 2H, Ar-H), 7.18-7.30 (m, 2H), 7.62 (s, 1H), 11.05 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.2, 157.6, 151.2, 150.0, 147.9, 130.4, 129.6, 129.3, 120.4, 112.0, 105.2, 56.0, 55.8, 50.4, 39.1, 32.6, 29.3, 26.6.

### 9-(2,4-di-Chloro-phenyl)-6,6-dimethyl-5,6,7,9-tetrahydro-4H-1,2,4-triazolo[5,1-b]quinazolin-8-one (7g)

Mp > 300 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3421 (N-H), 2962 (CH), 1716 (C=O), 1646, 1580, 1550, 1470 (C=C), 1365 (CH<sub>3</sub>), 1097 (C-Cl). <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 1.01 (s, 3H, CH<sub>3</sub>), 1.06 (s, 3H, CH<sub>3</sub>), 2.07 (d,  $J$  = 16.2 Hz, 1H), 2.23 (d,  $J$  = 16.2 Hz, 1H), 2.51 (d,  $J$  = 17.1 Hz, 1H), 2.60 (d,  $J$  = 17.1 Hz, 1H), 6.57 (s, 1H), 7.39 (br. s, 2H), 7.55 (s, 1H), 7.71 (s, 1H), 11.30 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.4, 151.8, 150.7, 147.4, 137.8, 133.7, 133.6, 132.5, 129.5, 127.9, 104.6, 56.4, 50.2, 39.2, 32.6, 28.9, 27.4.

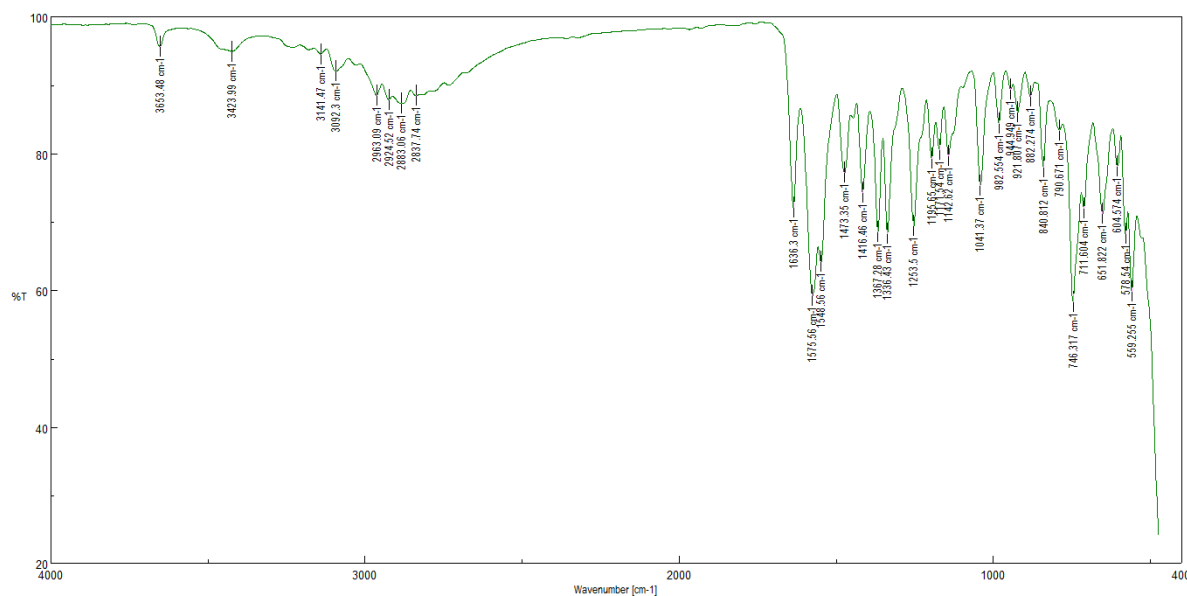
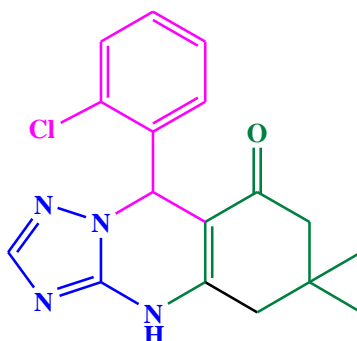
### 6,6-Dimethyl-9(4-methyl-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7h)

Mp 260-263 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3245 (N-H), 2892 (CH), 1711 (C=O), 1644, 1578 (C=C), 1366 (CH<sub>3</sub>), 1334, 1249. <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 0.98 (s, 3H, CH<sub>3</sub>), 1.06 (s, 3H, CH<sub>3</sub>), 2.00-2.11 (m, 2H), 2.25 (s, 3H, CH<sub>3</sub>), 2.51-2.56 (m, 2H), 6.18 (s, 1H), 7.09 (s, 4H), 7.69 (s, 1H), 11.12 (s, N-H, 1H). <sup>13</sup>C NMR (75 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 193.4, 150.7, 150.5, 147.3, 139.3, 137.4, 129.3, 127.3, 106.2, 58.1, 50.3, 32.7, 29.0, 27.3, 21.1.

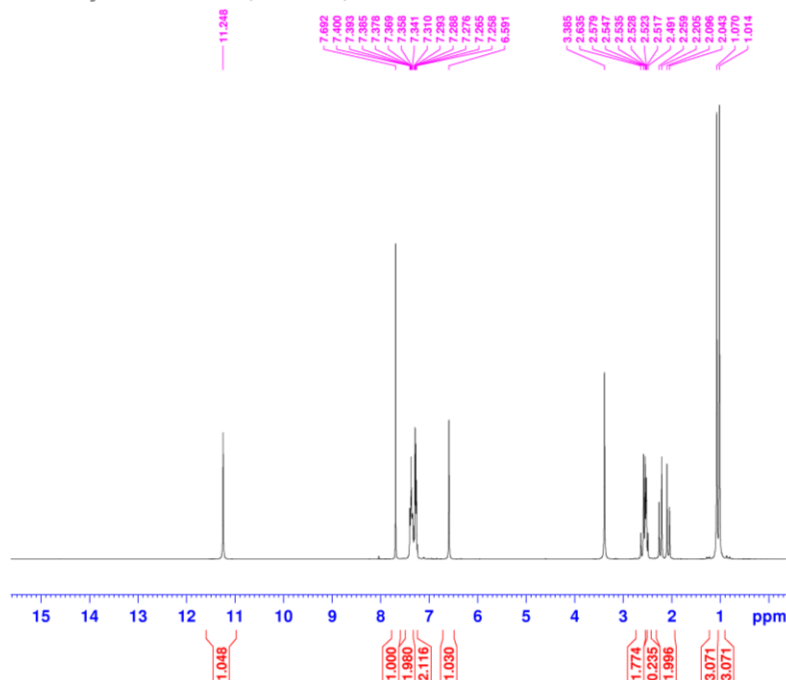
### 6,6-Dimethyl-9(4-di-methylamino-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7i)

Mp 240-242 °C. FT-IR (KBr,  $\nu$ ,  $\text{cm}^{-1}$ ): 3375 (N-H), 2962, 2933 (CH), 1685 (C=O), 1654 (NH bend), 1606, 1509 (C=C), 1369 (CH<sub>3</sub>), 1253, 1214, 1142, 1033. <sup>1</sup>H NMR (300 MHz, DMSO-*d*<sub>6</sub>,  $\delta$ , ppm): 0.98 (s, 3H, CH<sub>3</sub>), 1.08 (s, 3H, CH<sub>3</sub>), 2.12 (d,  $J$  = 16.2 Hz, 1H), 2.25 (d,  $J$  = 16.2 Hz, 1H), 2.52-2.58 (m, 2H), 2.85 (s, 6H, N-CH<sub>3</sub>), 6.10 (s, 1H), 6.62 (d,  $J$  = 8.7 Hz, 2H), 7.01 (d,  $J$  = 8.7 Hz, 2H), 7.67 (s, 1H), 11.02 (s, N-H, 1H).

### 9-(2-Chloro-phenyl)-6,6-dimethyl-5,6,7,9-tetrahydro-4H-1,2,4-triazolo[5,1-b]quinazolin-8-one (7a)



Dr. Mamoghani- code D27 (Delzende)-



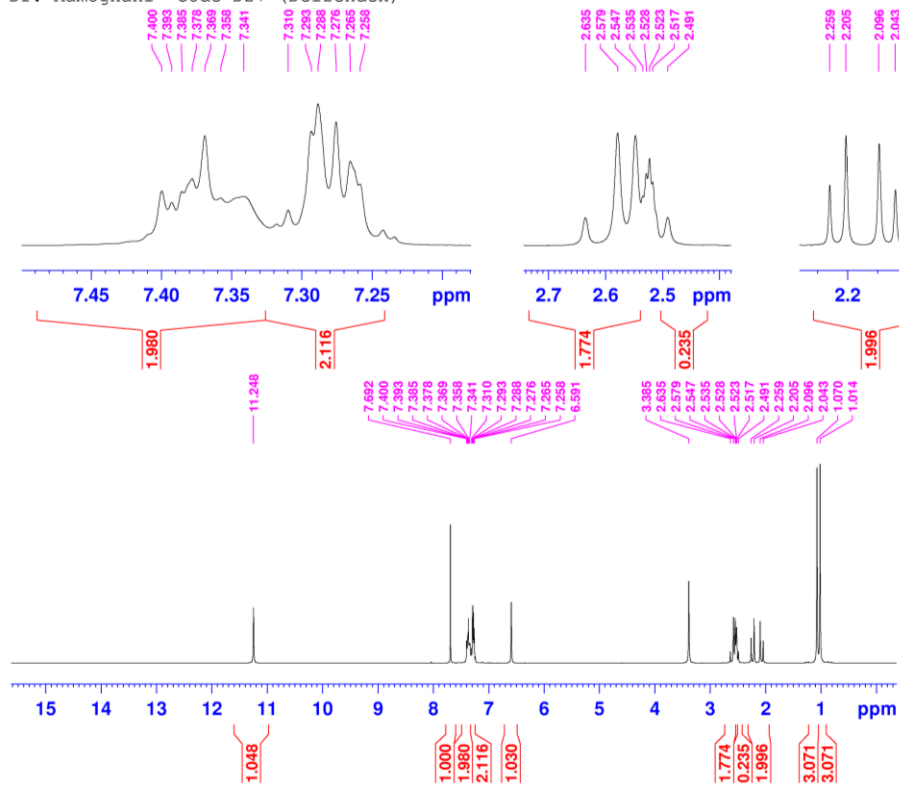
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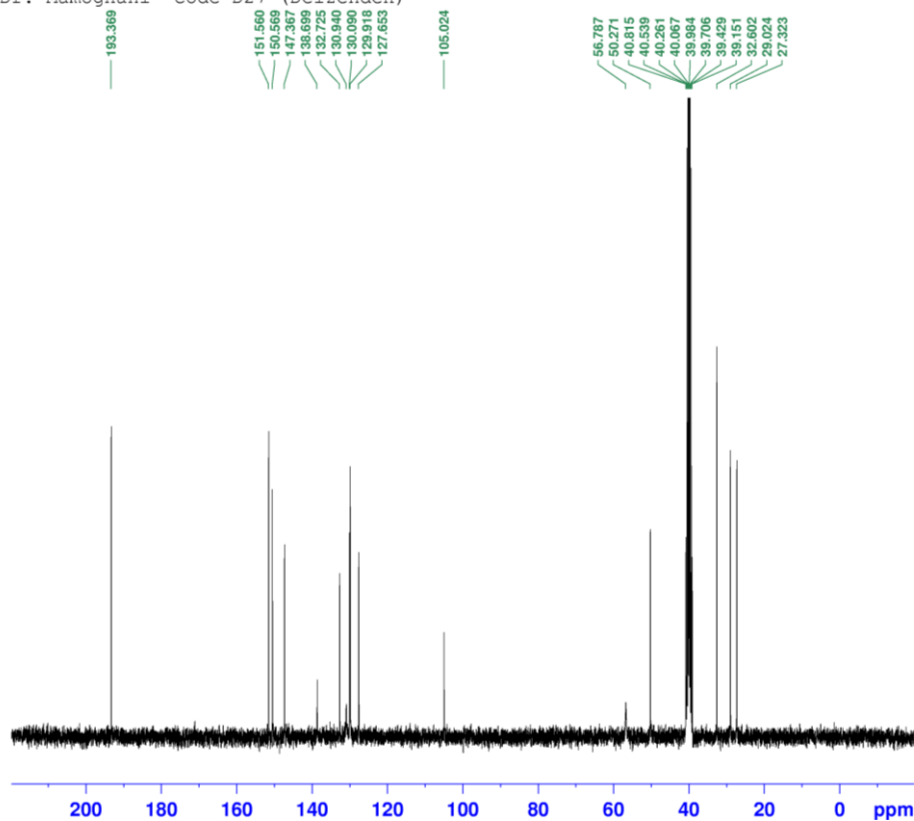
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Dr. Mamoghani- code D27 (Delzende)-



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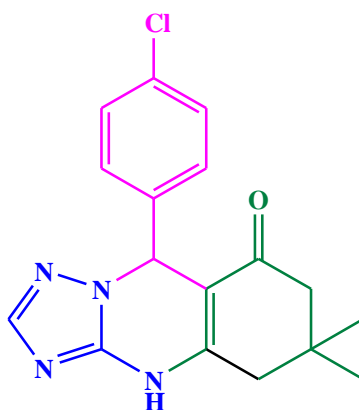
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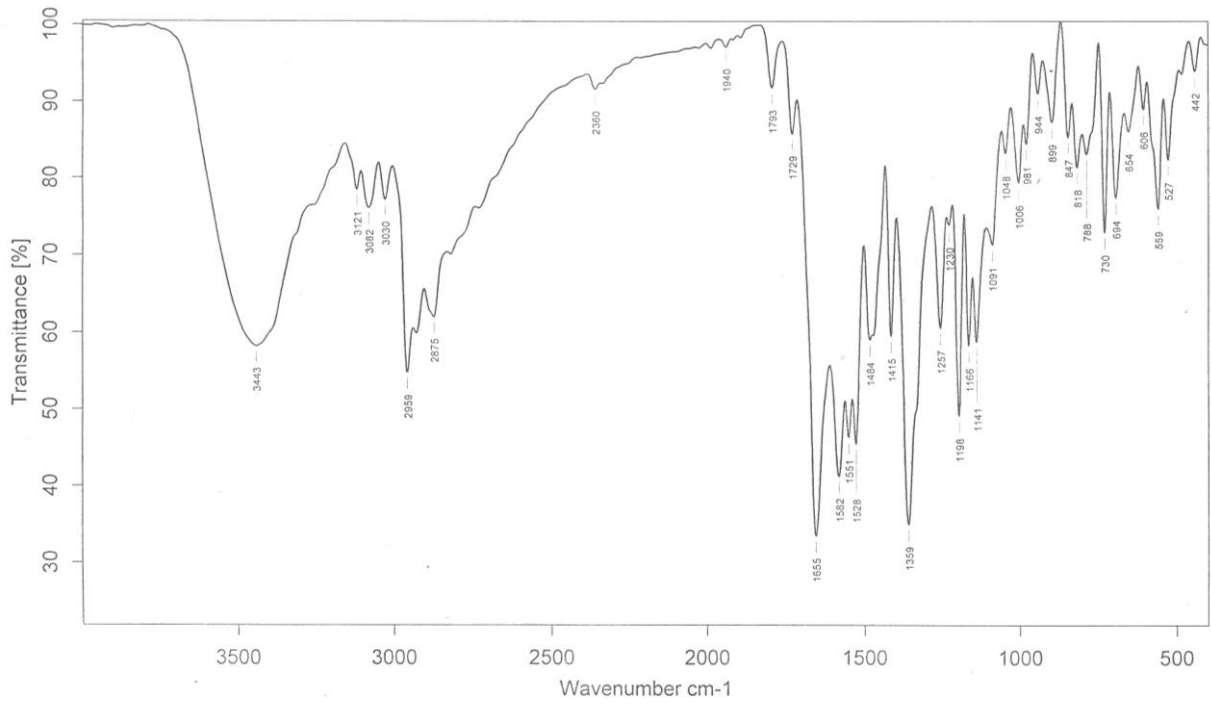
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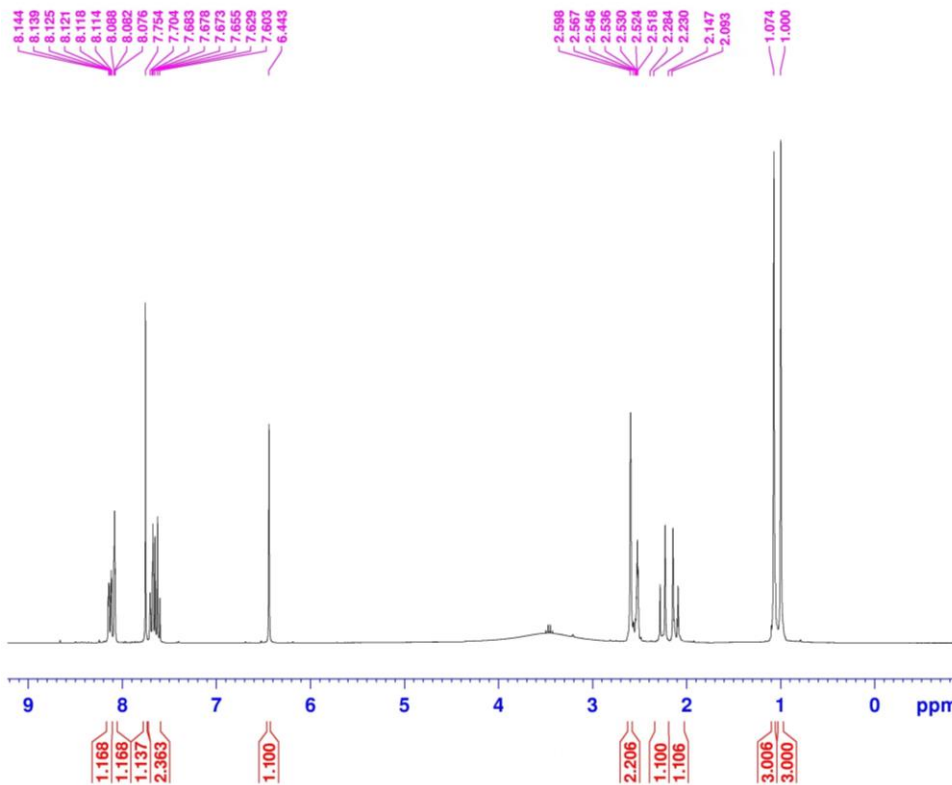
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9-(4-Chloro-phenyl)-6,6-dimethyl-5,6,7,9-tetrahydro-4H-1,2,4-triazolo[5,1-*b*]quinazolin-8-one (7b)





Dr Mamghani- code D22-4C1(Delzende)-



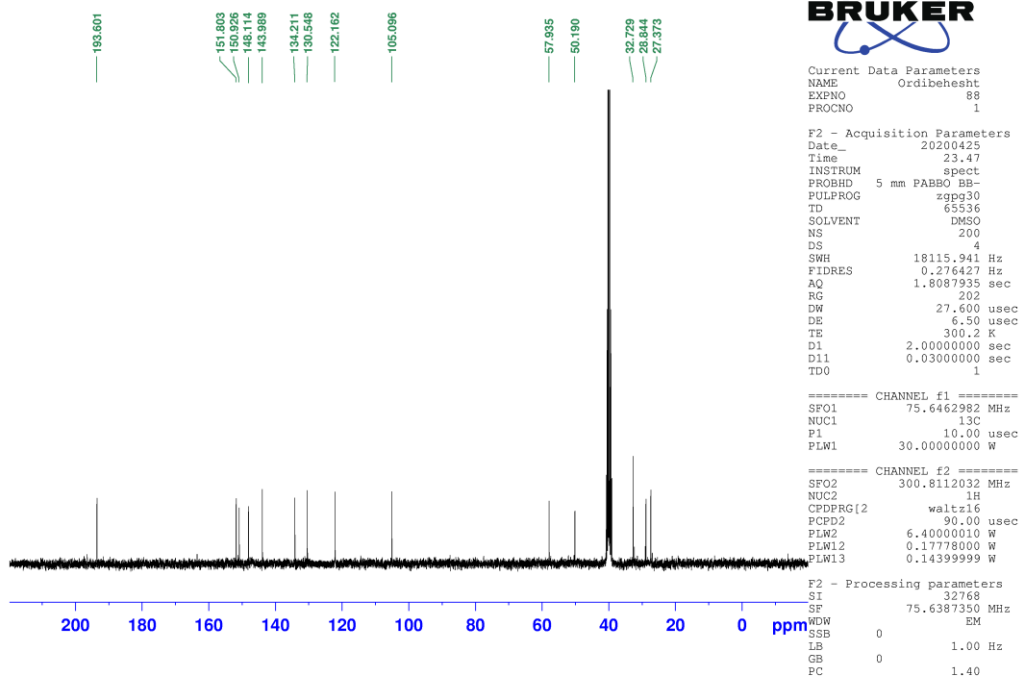
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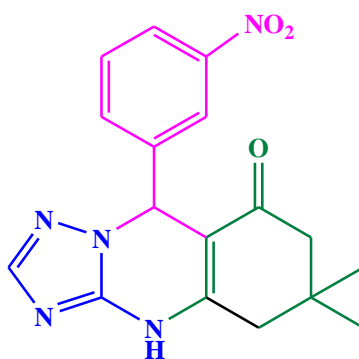
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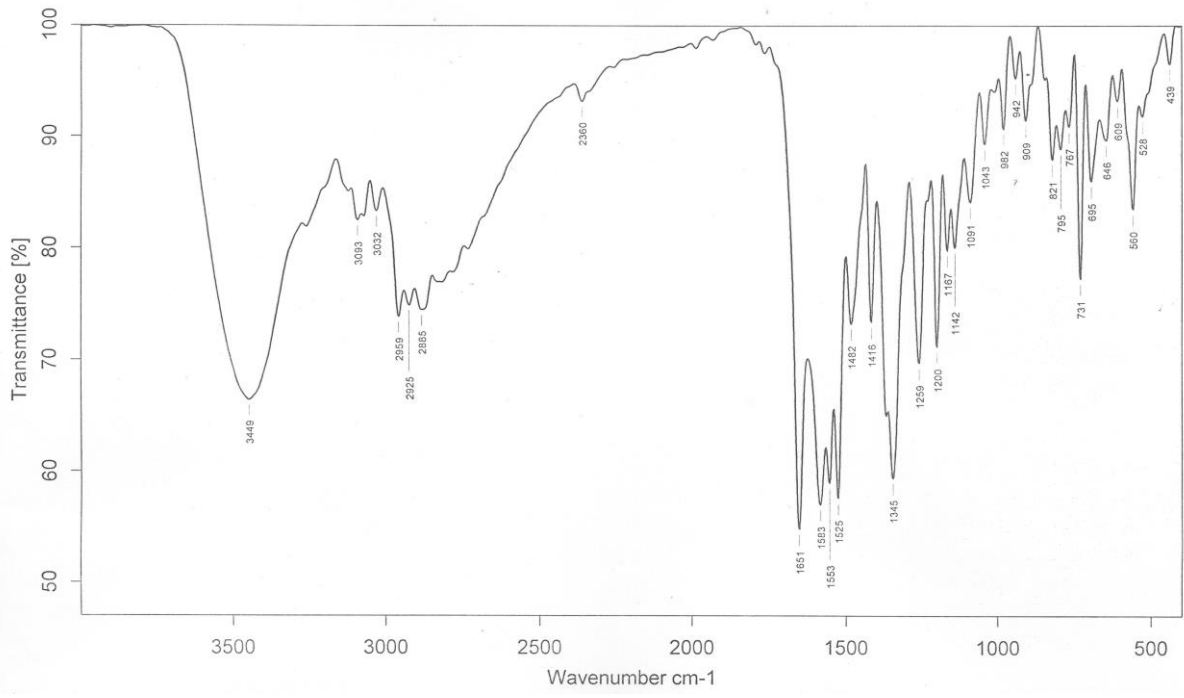
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Dr. Mamghani- Code D22-4C1- (Delzandeh)-

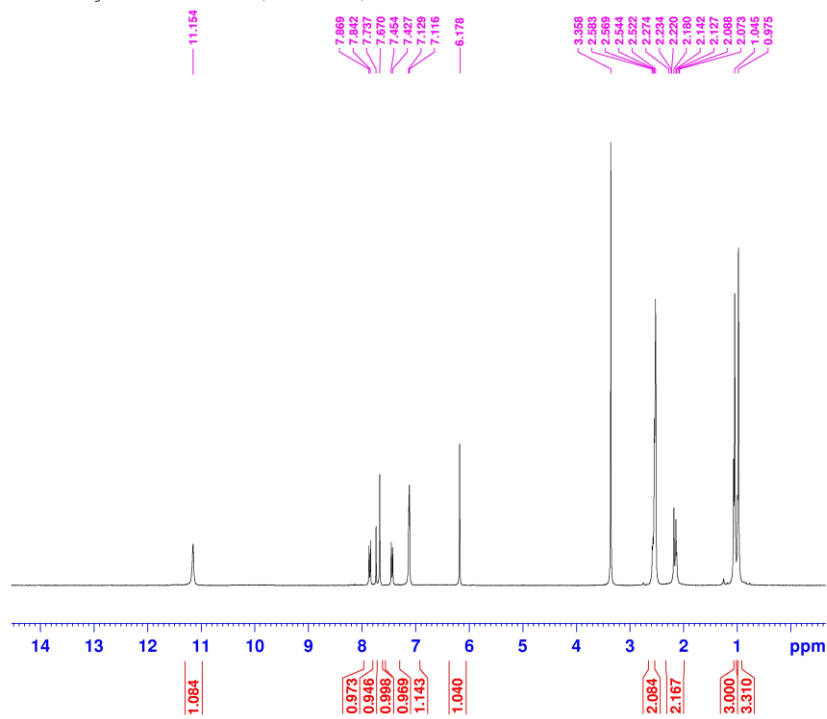


6,6-Dimethyl-9-(3-nitro-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-*b*]quinazolin-8(4H)-one (7c)





Dr. Mamoghani- code D31 (Delzende)-



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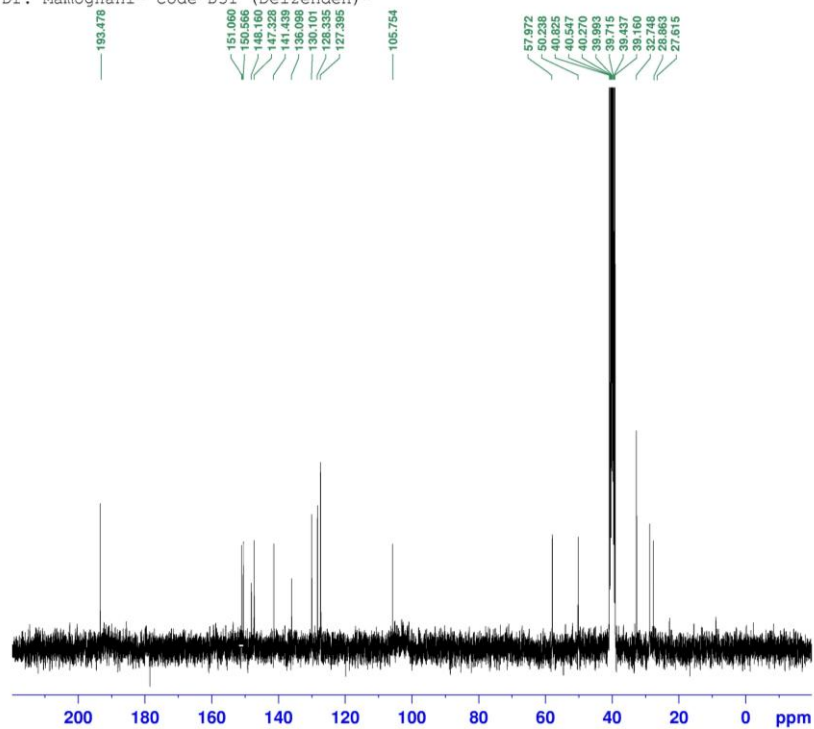
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Dr. Mamoghani- code D31 (Delzendeh)-



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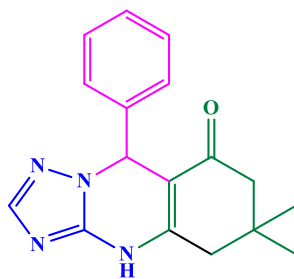
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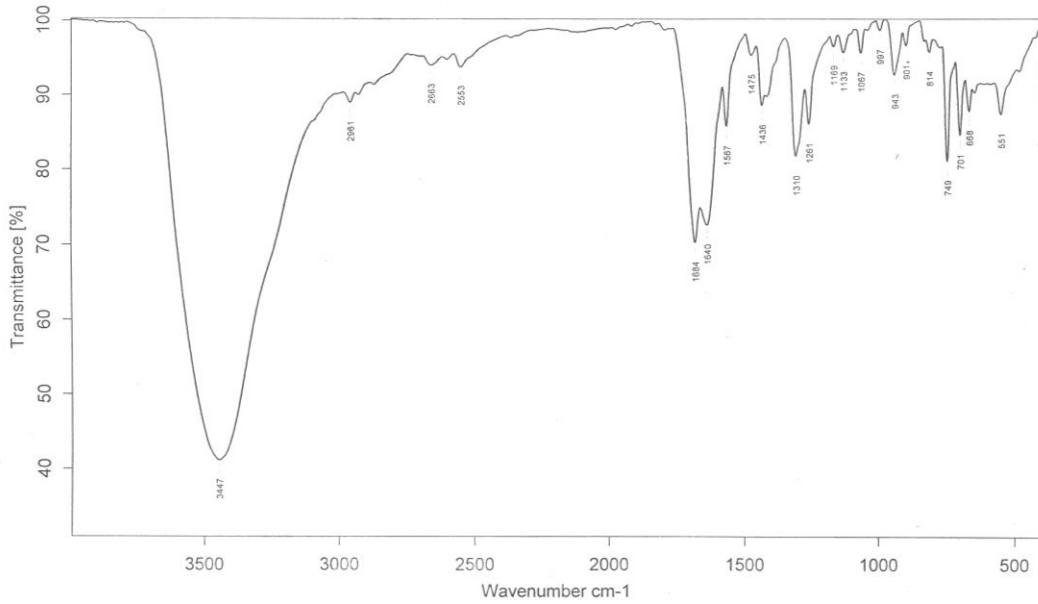
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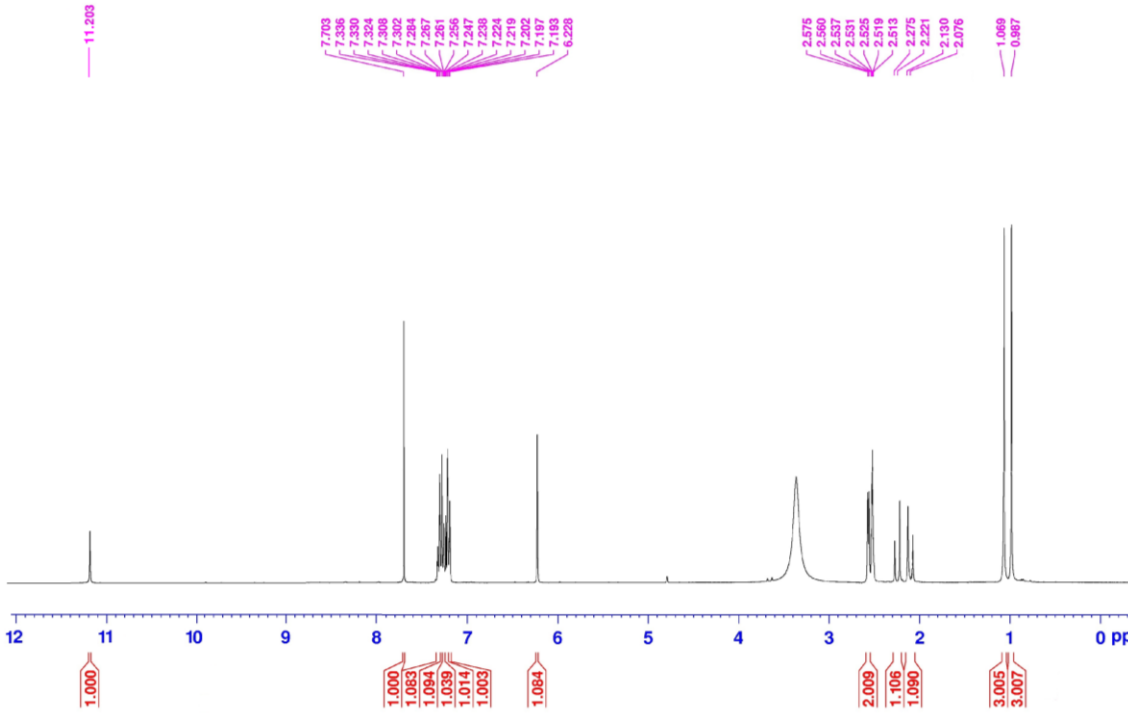
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6,6-dimethyl-9-phenyl-5,6,7,9-tetrahydro-4H-1,2,4-triazolo[5,1-b]quinazolin-8-one (7d)





Dr Mamghani- code D24-BZ(Delzende)-



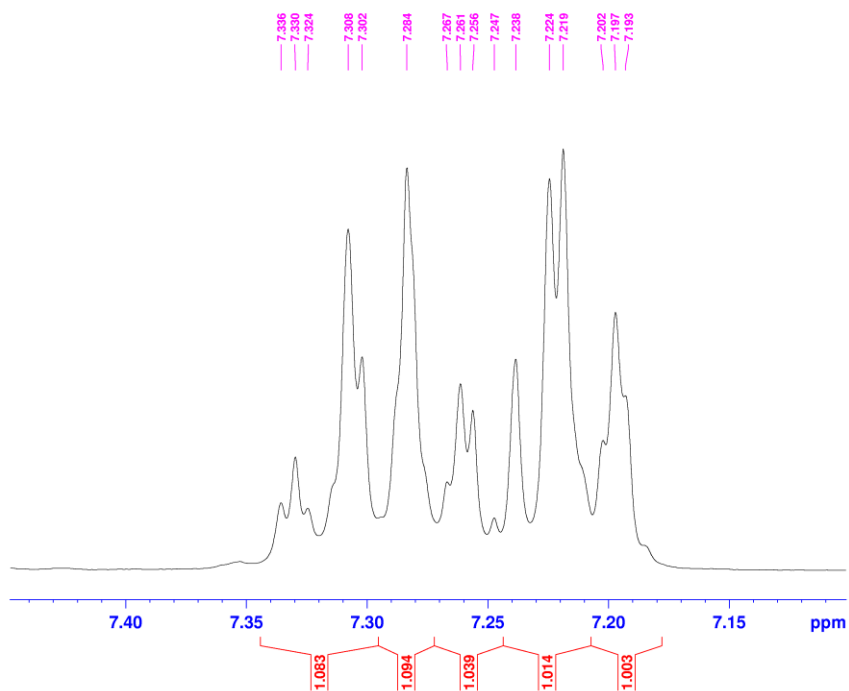
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Dr Mamghani- code D24-BZ(DelzendeH)-



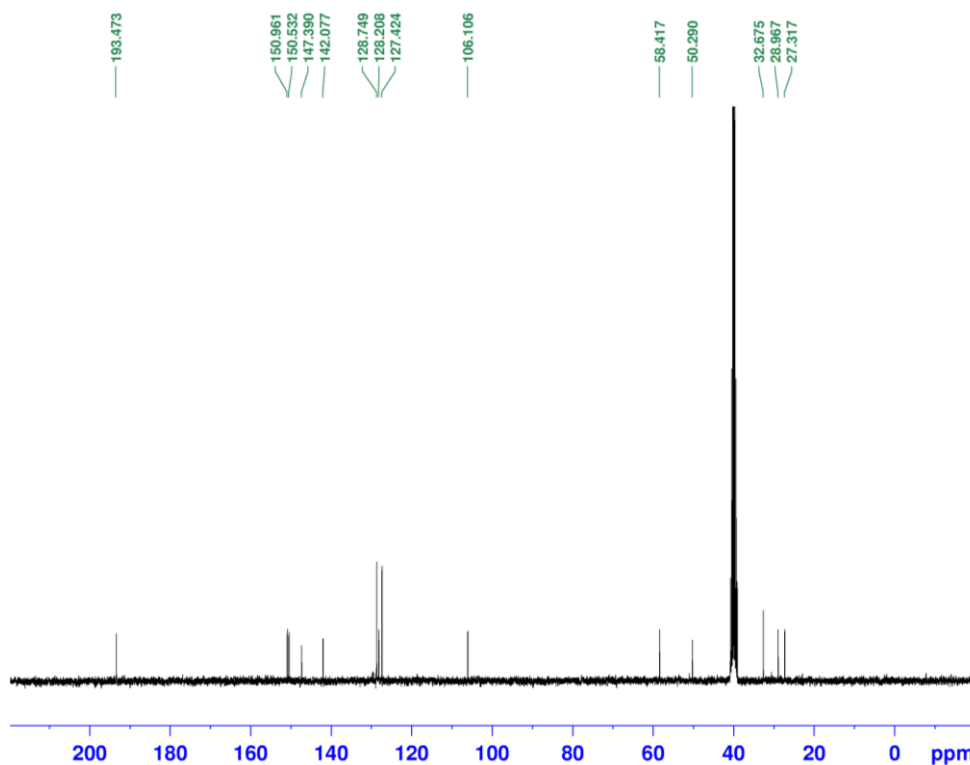
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FIDRES 0.091699 Hz  
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RG 33.22  
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TE 299.1 K  
D1 1.0000000 sec  
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Dr. Mamghani- Code D24-To/5- (Delzandeh)-



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PROCNO 1

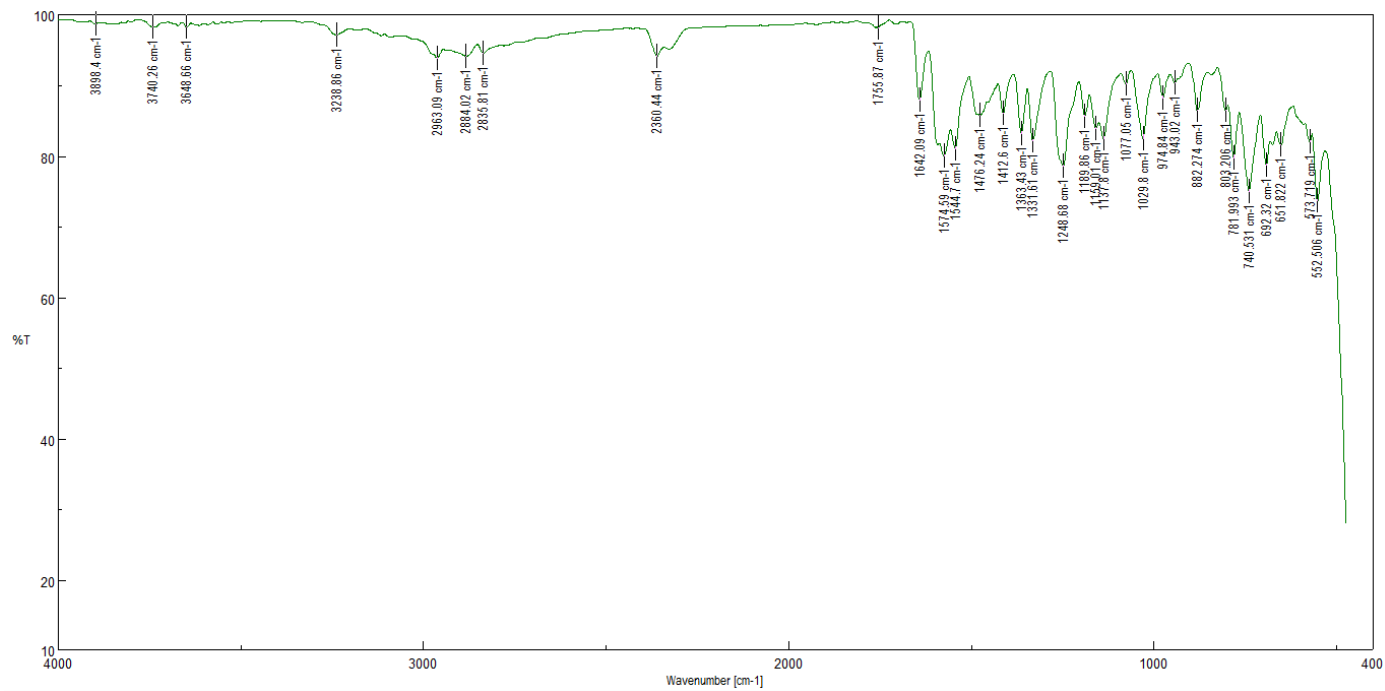
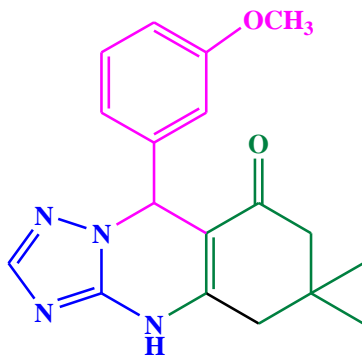
F2 - Acquisition Parameters  
Date\_ 20200425  
Time 23.31  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT DMSO  
NS 425  
DS 4  
SWH 18115.941 Hz  
FIDRES 0.276427 Hz  
AQ 1.8087935 sec  
RG 202  
DW 27.600 usec  
DE 6.50 usec  
TE 300.2 K  
D1 2.0000000 sec  
D11 0.0300000 sec  
TD0 1

===== CHANNEL f1 =====  
SF01 75.6462982 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 30.0000000 W

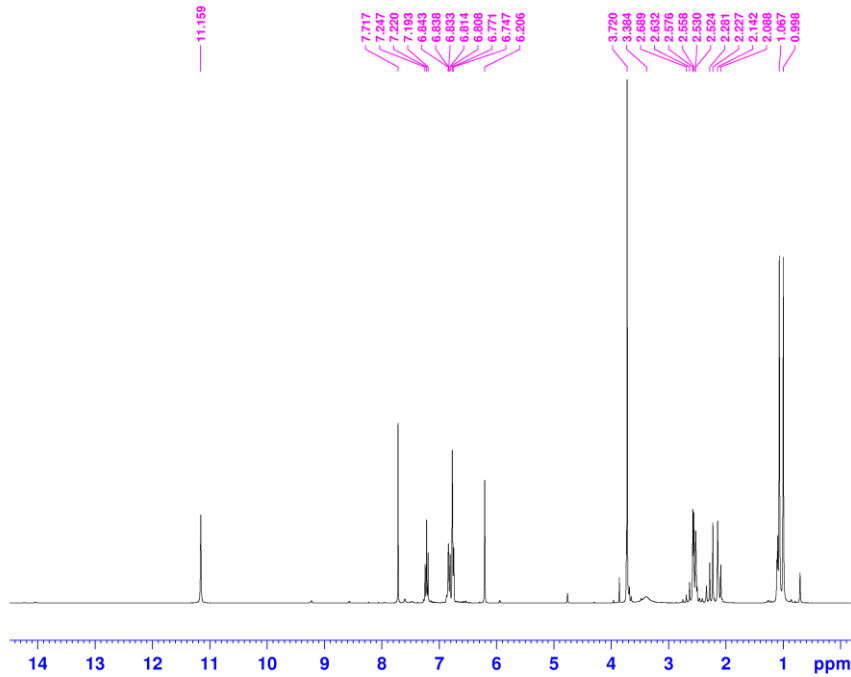
===== CHANNEL f2 =====  
SF02 300.8112032 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 90.00 usec  
PLW2 6.4000010 W  
PLW12 0.17778000 W  
PLW13 0.14399999 W

F2 - Processing parameters  
SI 32768  
SF 75.6387350 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

6,6-Dimethyl-9-(3-methoxy-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7e)



Dr. Mamoghani- code D26 (DelzendeH)-



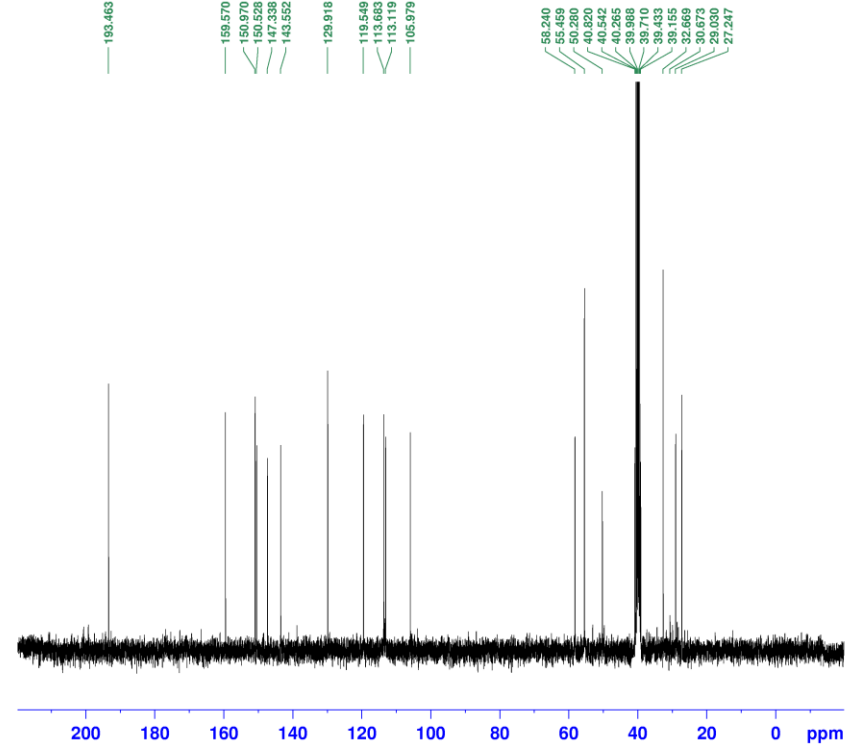
Current Data Parameters  
 NAME Rhordad  
 EXPNO 808  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 22.42  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 16  
 DS 2  
 SWH 6009.615 Hz  
 FIDRES 0.091699 Hz  
 AQ 5.4525952 sec  
 RG 99.22  
 DW 83.200 usec  
 DE 6.50 usec  
 TE 295.5 K  
 D1 1.00000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 SFO1 300.8118576 MHz  
 NUC1 1H  
 P1 15.00 usec  
 PLW1 6.40000010 W

F2 - Processing parameters  
 SI 65536  
 SF 300.8100000 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00

Dr. Mamoghani- code D26 (DelzendeH)-



Current Data Parameters  
 NAME Rhordad  
 EXPNO 809  
 PROCNO 1

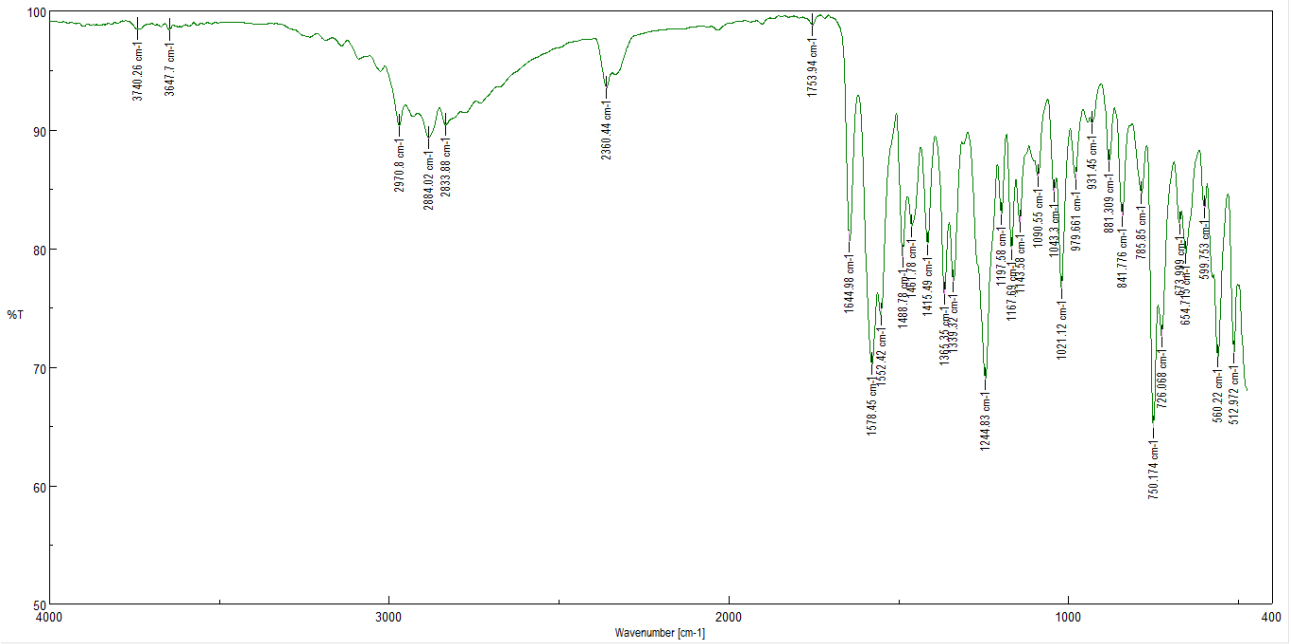
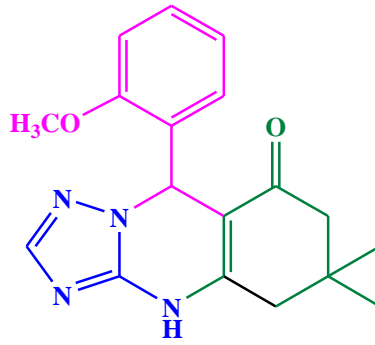
F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 22.51  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT DMSO  
 NS 128  
 DS 4  
 SWH 18115.941 Hz  
 FIDRES 0.276427 Hz  
 AQ 1.8087935 sec  
 RG 202  
 DW 27.600 usec  
 DE 6.50 usec  
 TE 296.0 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 SFO1 75.6462982 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 30.00000000 W

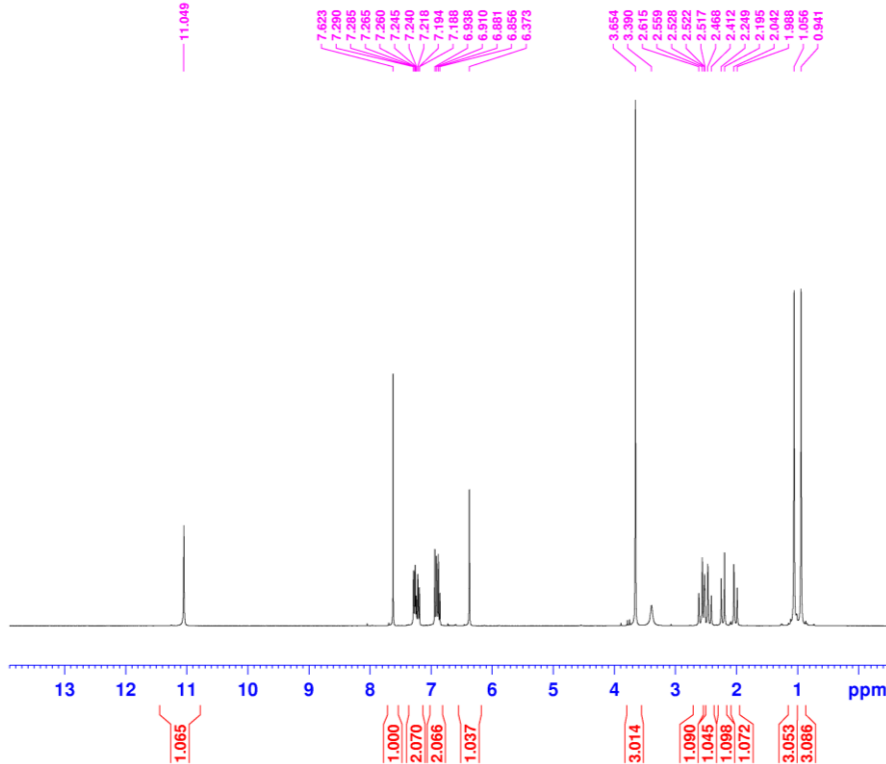
===== CHANNEL f2 =====  
 SFO2 300.8112032 MHz  
 NUC2 1H  
 CPDPRG2 waltz16  
 PCPD2 90.00 usec  
 PLW2 6.40000010 W  
 PLW12 0.17778000 W  
 PLW13 0.14399999 W

F2 - Processing parameters  
 SI 32768  
 SF 75.6387350 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

6,6-Dimethyl-9(2-methoxy-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7f)



Dr. Mamoghani- code D29 (Delzende)-



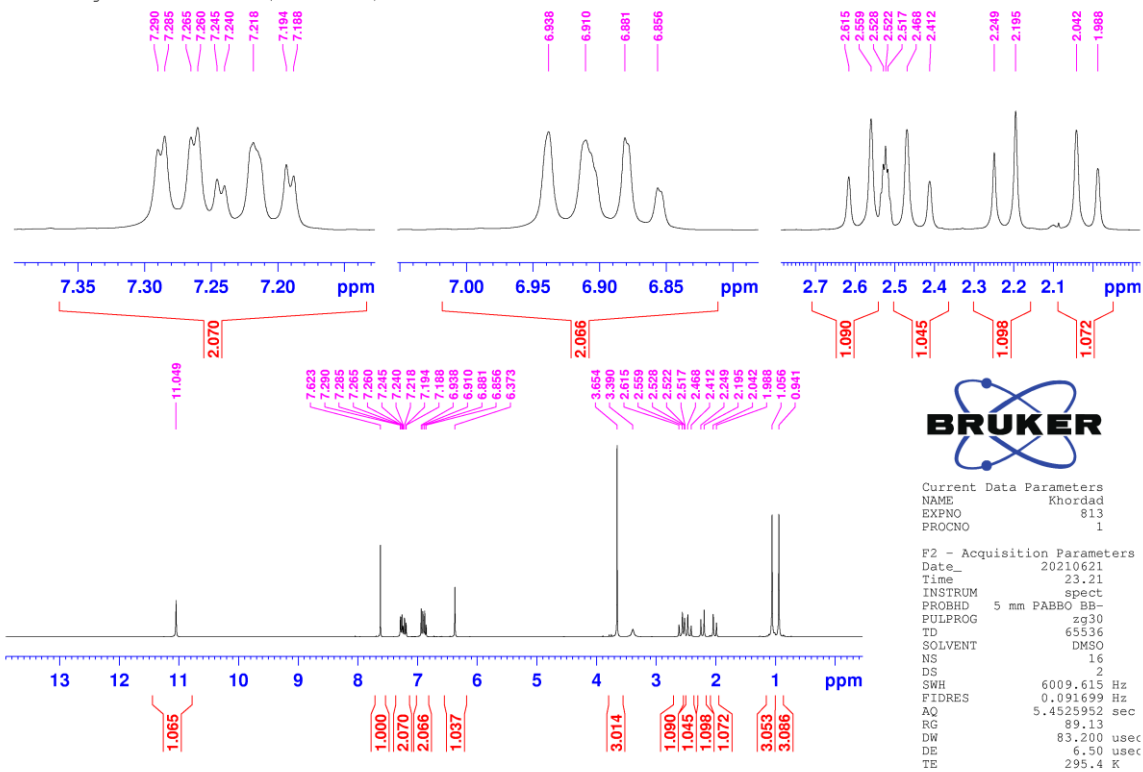
Current Data Parameters  
 NAME Rhordad  
 EXPNO 813  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 23.21  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 16  
 DS 2  
 SWH 6009.615 Hz  
 FIDRES 0.091699 Hz  
 AQ 5.4525952 sec  
 RG 89.13  
 DW 83.200 usec  
 DE 6.50 usec  
 TE 295.4 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 SFO1 300.8118576 MHz  
 NUC1 1H  
 P1 15.00 usec  
 PLW1 6.40000010 W

F2 - Processing parameters  
 SI 65536  
 SF 300.8100000 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00

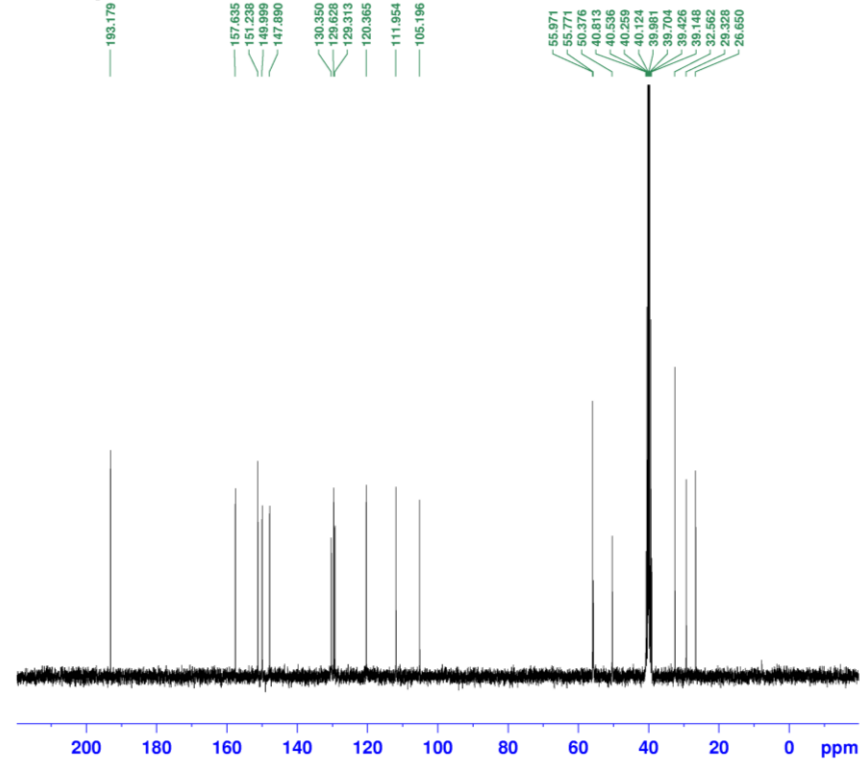
Dr. Mamoghani- code D29 (Delzende)-



Current Data Parameters  
 NAME Khordad  
 EXPNO 813  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 23.21  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 16  
 DS 2  
 SWH 6009.615 Hz  
 FIDRES 0.091699 Hz  
 AQ 5.4525952 sec  
 RG 89.13  
 DW 83.200 usec  
 DE 6.50 usec  
 TE 295.4 K

Dr. Mamoghani- code D29 (Delzende)-



Current Data Parameters  
 NAME Khordad  
 EXPNO 814  
 PROCNO 1

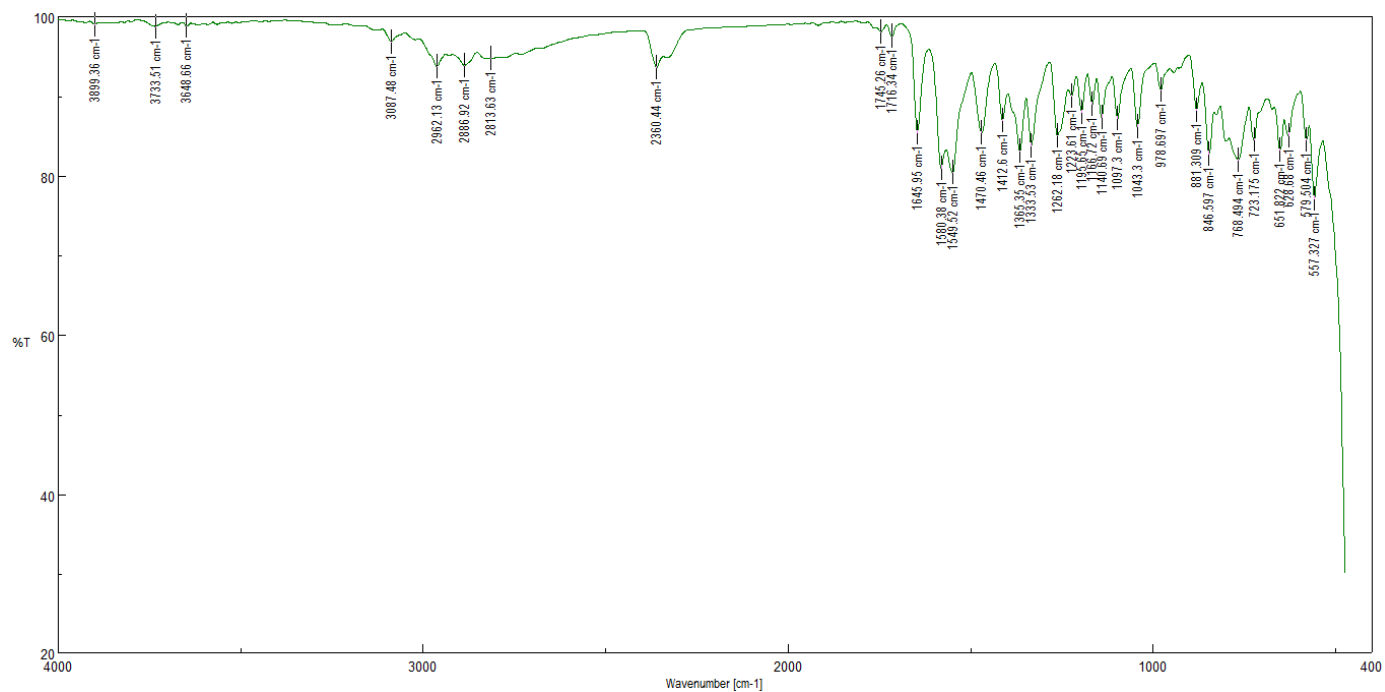
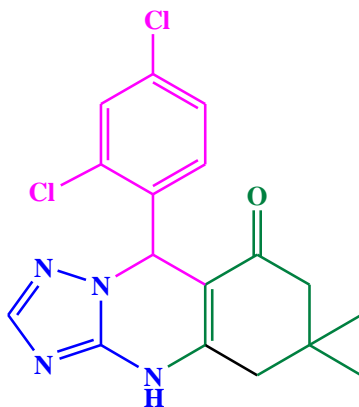
F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 23.30  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT DMSO  
 NS 128  
 DS 4  
 SWH 18115.941 Hz  
 FIDRES 0.276427 Hz  
 AQ 1.8087935 sec  
 RG 202  
 DW 27.600 usec  
 DE 6.50 usec  
 TE 296.0 K  
 D1 2.0000000 sec  
 D11 0.03000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 SFO1 75.6462982 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 30.0000000 W

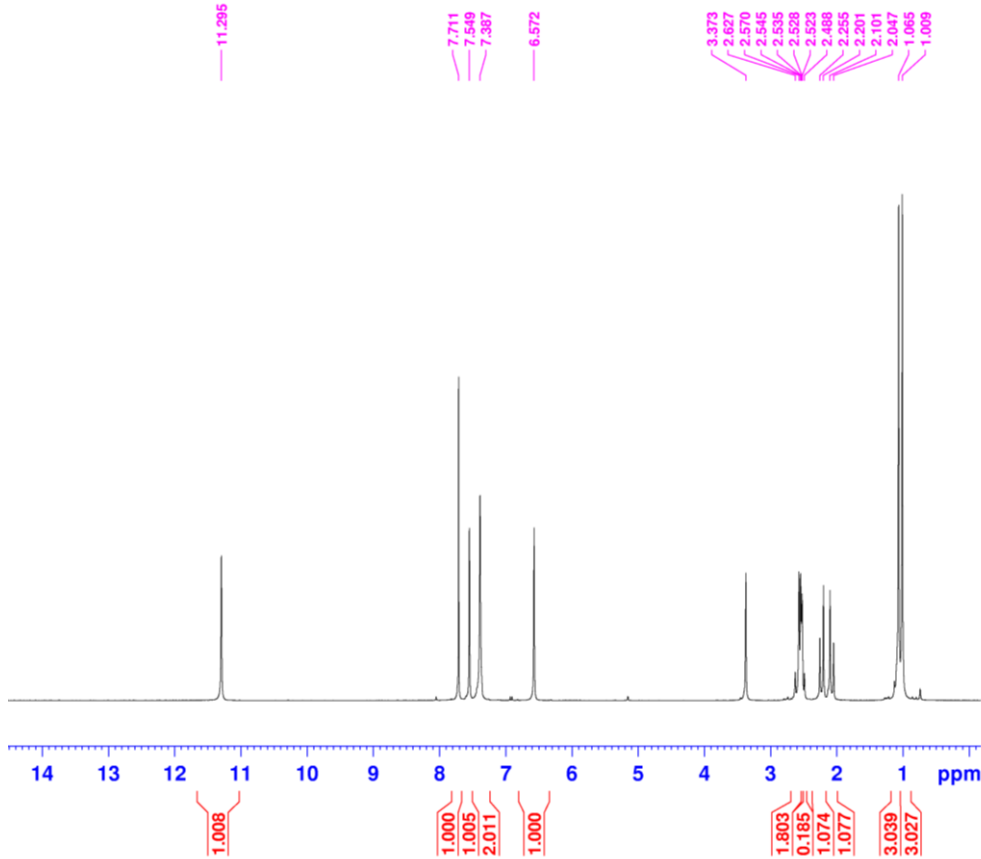
===== CHANNEL f2 =====  
 SFO2 300.8112032 MHz  
 NUC2 1H  
 CPDPRG[2] waltz16  
 PCPD2 90.00 usec  
 PLW2 6.40000010 W  
 PLW12 0.17778000 W  
 PLW13 0.14399999 W

F2 - Processing parameters  
 SI 32768  
 SF 75.6387350 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

9-(2,4-diChloro-phenyl)-6,6-dimethyl-5,6,7,9-tetrahydro-4H-1,2,4-triazolo[5,1-b]quinazolin-8-one (7g)



r. Mamoghani- code D30 (Delzende)-



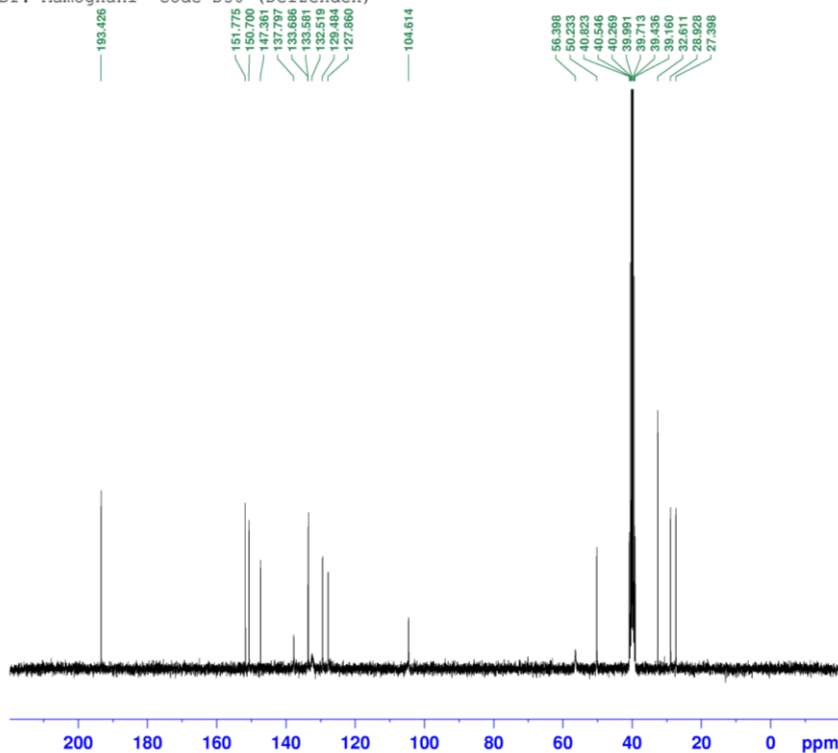
Current Data Parameters  
 NAME Khordad  
 EXPNO 817  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 23.52  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 8  
 DS 2  
 SWH 6009.615 Hz  
 FIDRES 0.091699 Hz  
 AQ 5.4525952 sec  
 RG 113.32  
 DW 83.200 usec  
 DE 6.50 usec  
 TE 295.5 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 SFO1 300.8118576 MHz  
 NUC1 1H  
 P1 15.00 usec  
 PLW1 6.40000010 W

F2 - Processing parameters  
 SI 65536  
 SF 300.8100000 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00

Dr. Mamoghani- code D30 (Delzende)-



Current Data Parameters  
 NAME Khordad  
 EXPNO 818  
 PROCNO 1

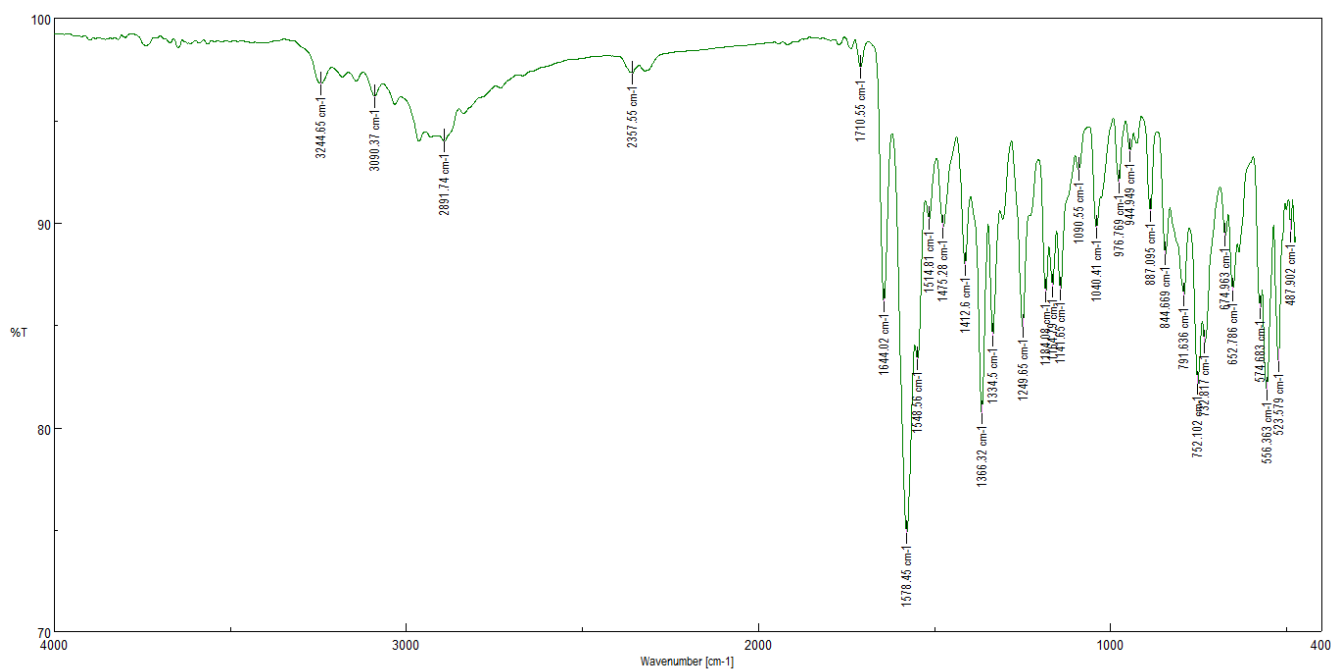
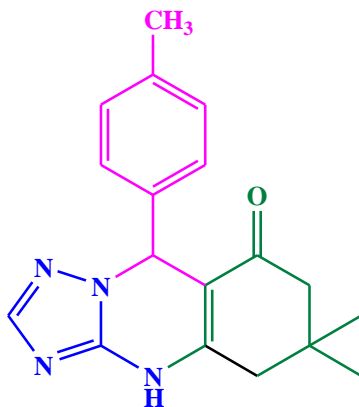
F2 - Acquisition Parameters  
 Date\_ 20210622  
 Time 0.10  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT DMSO  
 NS 280  
 DS 4  
 SWH 18115.941 Hz  
 FIDRES 0.276427 Hz  
 AQ 1.8087935 sec  
 RG 202  
 DW 27.600 usec  
 DE 6.50 usec  
 TE 295.0 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 SFO1 75.6462982 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 30.00000000 W

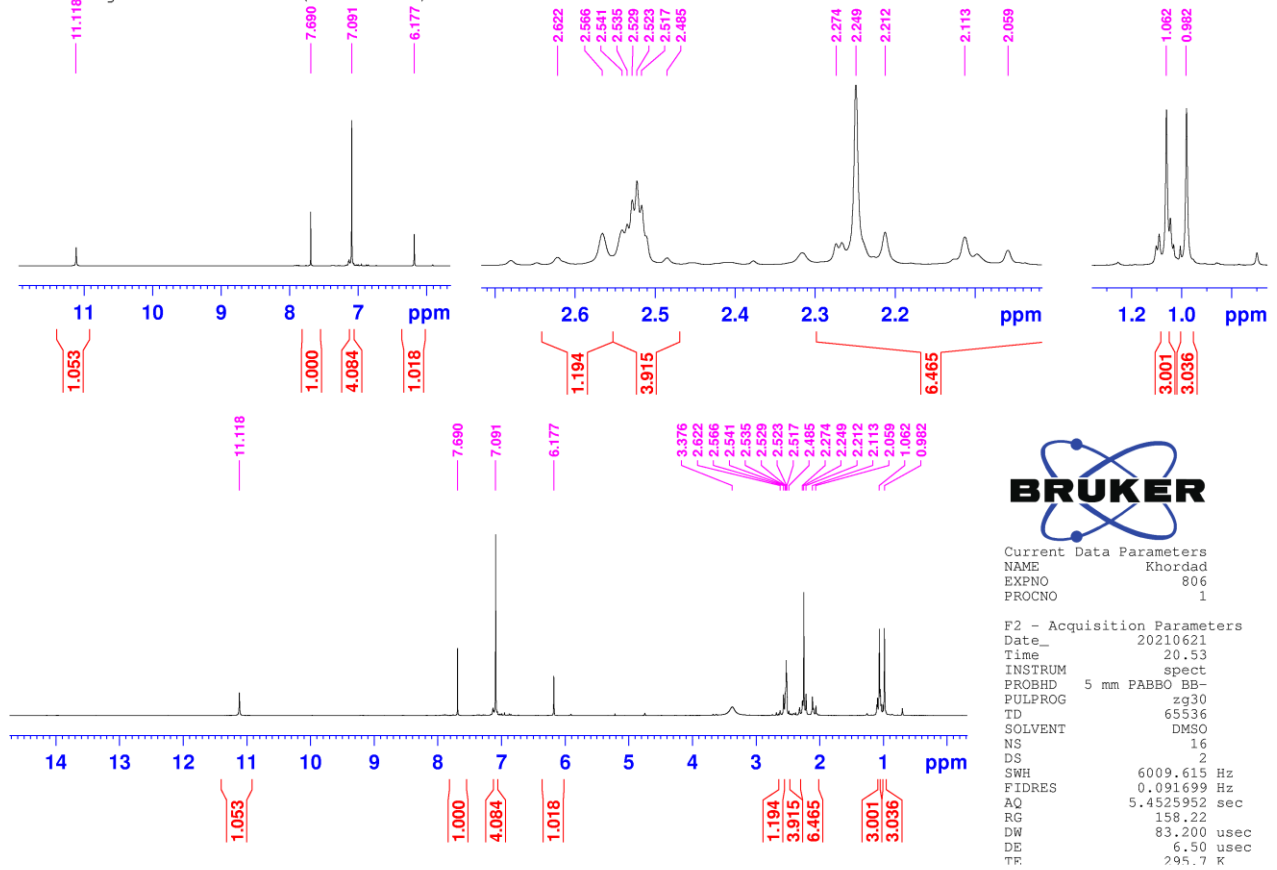
===== CHANNEL f2 =====  
 SFO2 300.8112032 MHz  
 NUC2 1H  
 CPDPRG[2] waltz16  
 PCPD2 90.00 usec  
 PLW2 6.40000010 W  
 PLW12 0.17778000 W  
 PLW13 0.14399999 W

F2 - Processing parameters  
 SI 32768  
 SF 75.6387350 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

6,6-Dimethyl-9-(4-methyl-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7h)



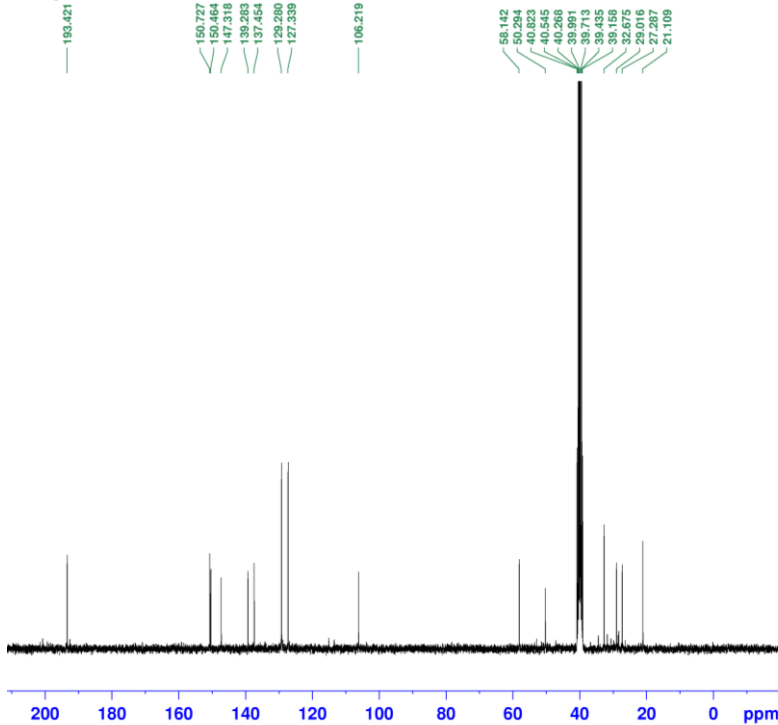
Dr. Mamoghani- code D28 (Delzende)-



Current Data Parameters  
 NAME Khordad  
 EXPNO 806  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 20.53  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT DMSO  
 NS 16  
 DS 2  
 SWH 6009.615 Hz  
 FIDRES 0.091699 Hz  
 AQ 5.4525952 sec  
 RG 158.22  
 DW 83.200 usec  
 DE 6.50 usec  
 TE 295.7 K

Mamoghani- code D28 (Delzende)-



Current Data Parameters  
 NAME Khordad  
 EXPNO 807  
 PROCNO 1

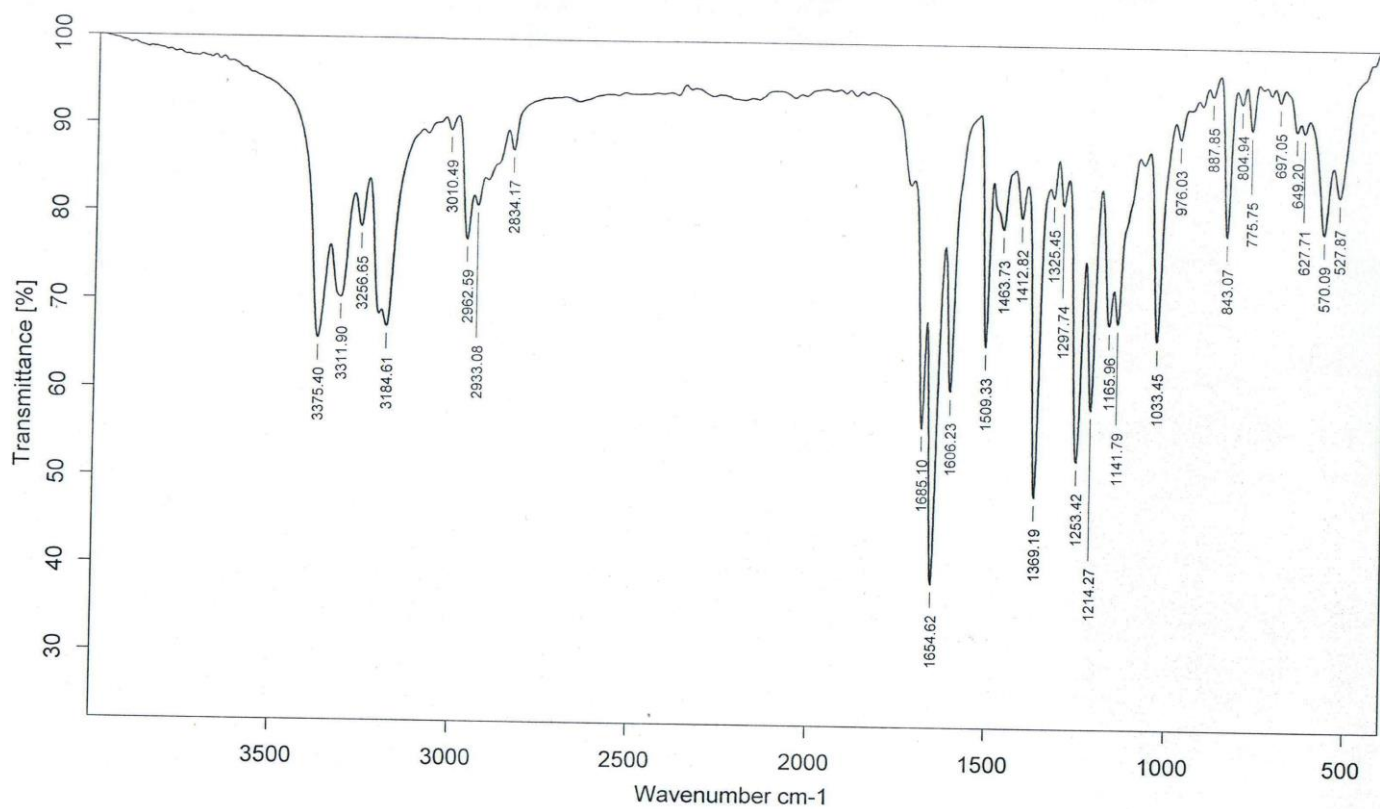
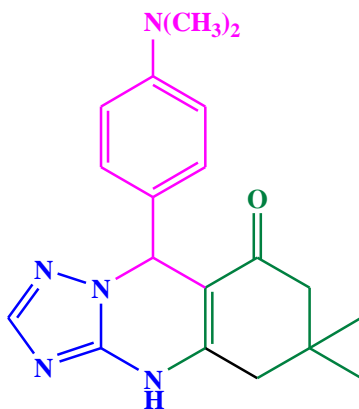
F2 - Acquisition Parameters  
 Date\_ 20210621  
 Time 22.16  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT DMSO  
 NS 1275  
 DS 4  
 SWH 18115.941 Hz  
 FIDRES 0.276427 Hz  
 AQ 1.8087935 sec  
 RG 202  
 DW 27.600 usec  
 DE 6.50 usec  
 TE 296.2 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 SFO1 75.6462982 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 30.00000000 W

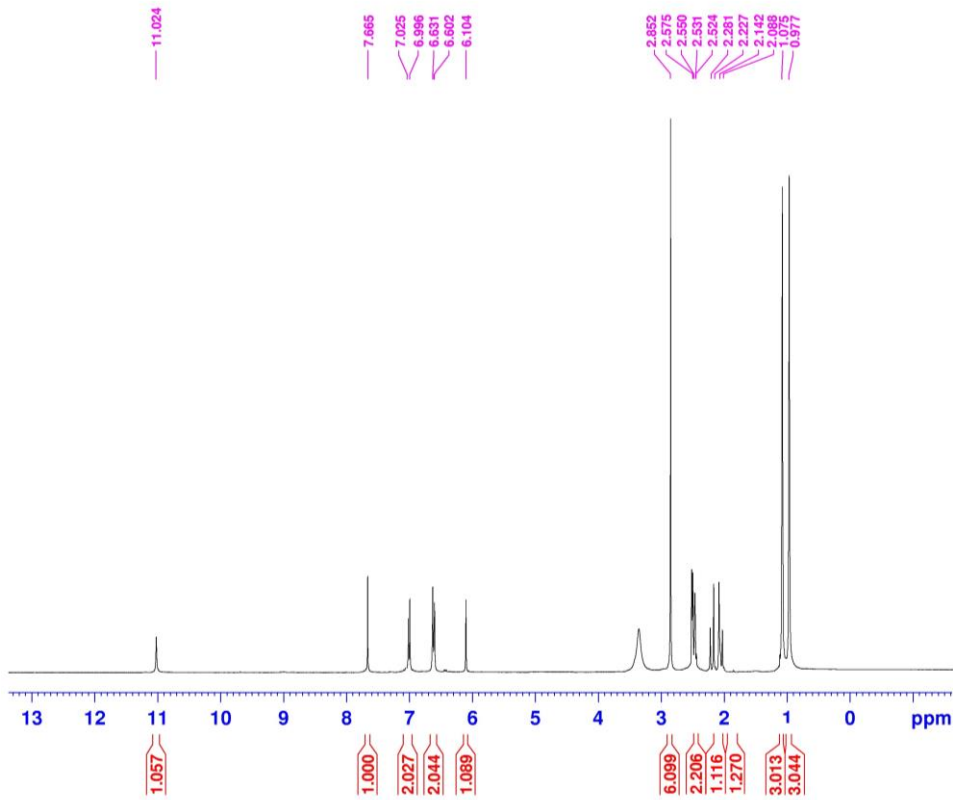
===== CHANNEL f2 =====  
 SFO2 300.8112032 MHz  
 NUC2 1H  
 CPDPRG[2] walzr16  
 PCPD2 90.00 usec  
 PLW2 6.40000010 W  
 PLW12 0.17778000 W  
 PLW13 0.14399999 W

F2 - Processing parameters  
 SI 32768  
 SF 75.6387350 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

6,6-Dimethyl-9-(4-di-methylamino-phenyl)-5,6,7,9-tetrahydro-1,2,4-triazolo[5,1-b]quinazolin-8(4H)-one (7i)



Dr.Mamaghani- code D25(pirdelzendeH)-



Current Data Parameters  
NAME Khordad  
EXPNO 159  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20200607  
Time 10.44  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30  
TD 65536  
SOLVENT DMSO  
NS 16  
DS 2  
SWH 6009.615 Hz  
FIDRES 0.091699 Hz  
AQ 5.4525952 sec  
RG 33.22  
DW 83.200 usec  
DE 6.50 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 300.8118576 MHz  
NUC1 1H  
P1 15.00 usec  
PLW1 6.40000010 W

F2 - Processing parameters  
SI 65536  
SF 300.8100000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00