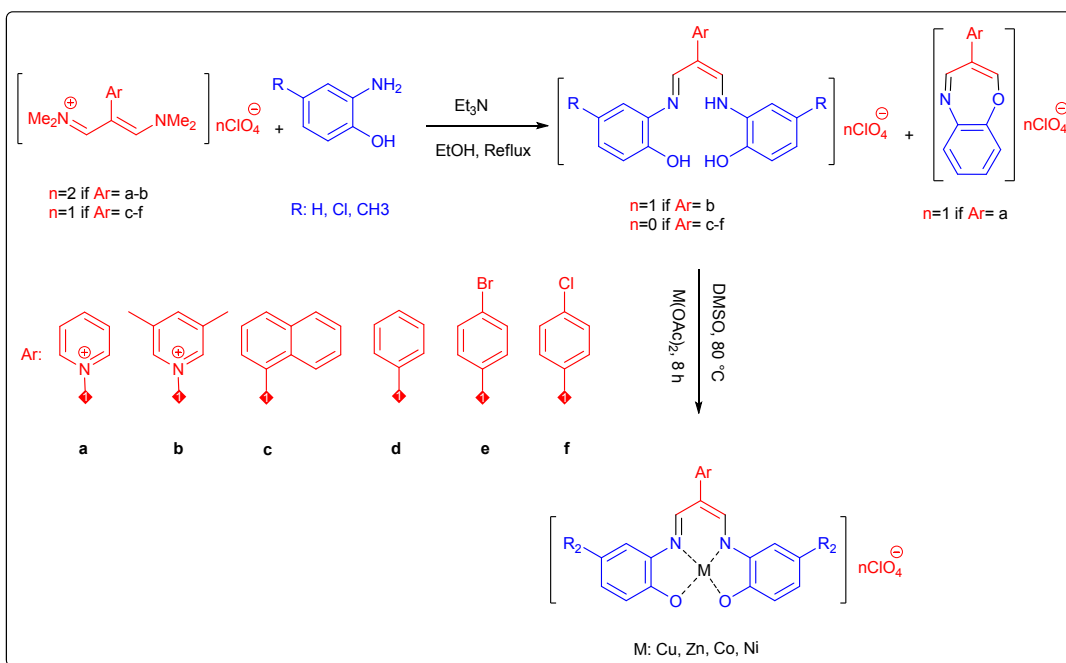
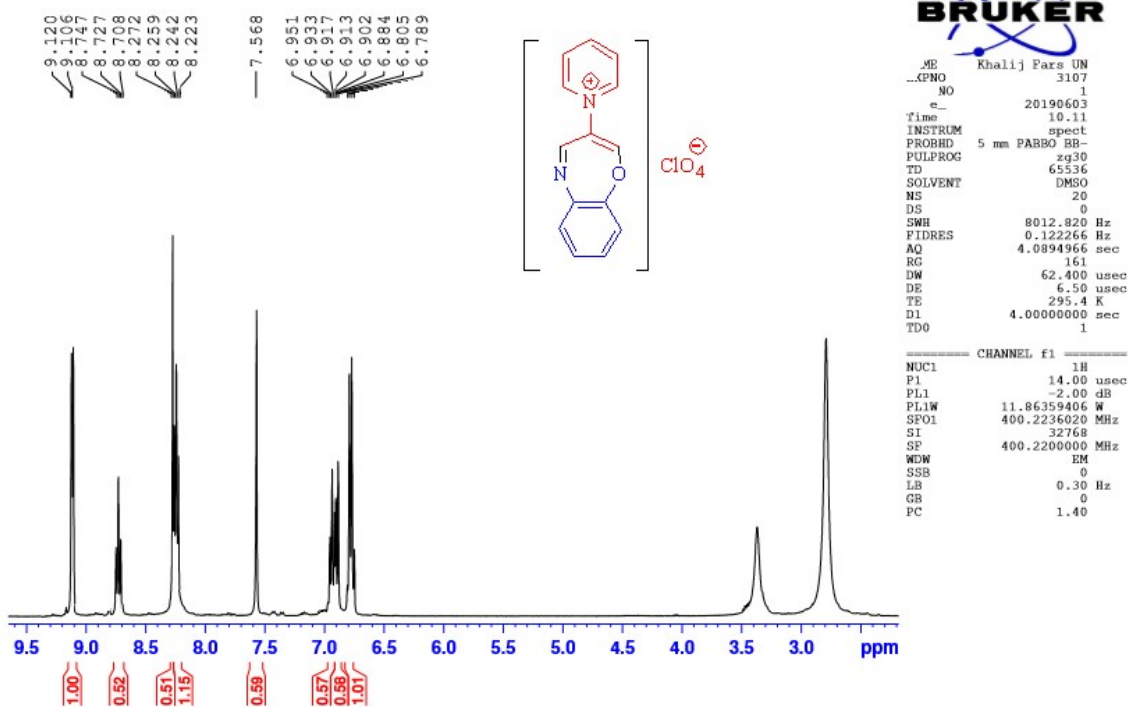
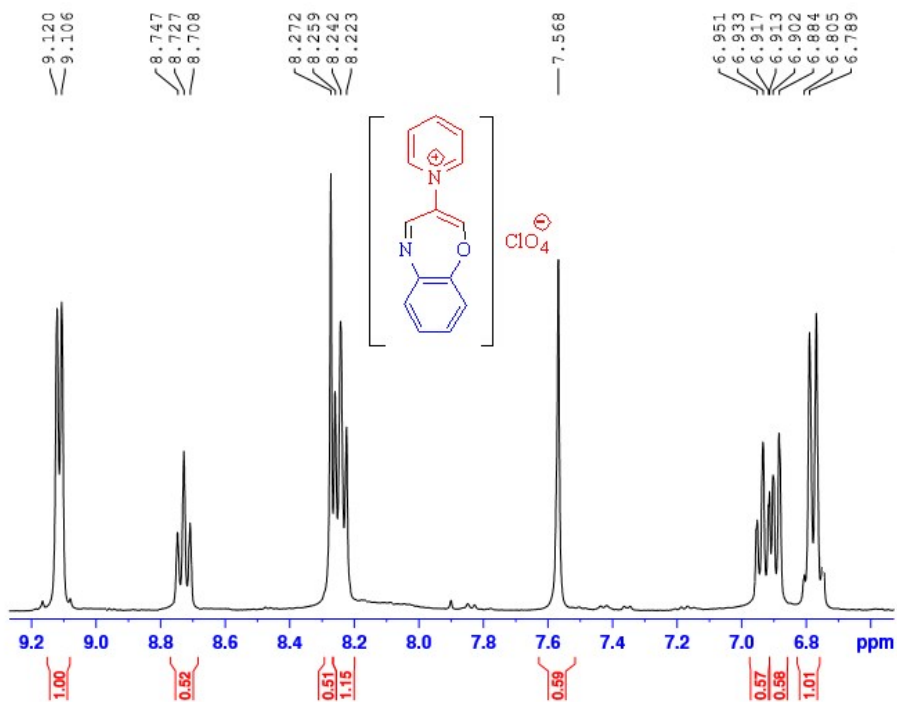


Synthesis of new allylidene amino phenol-containing Schiff bases and metal complexes formation using trimethinium salts



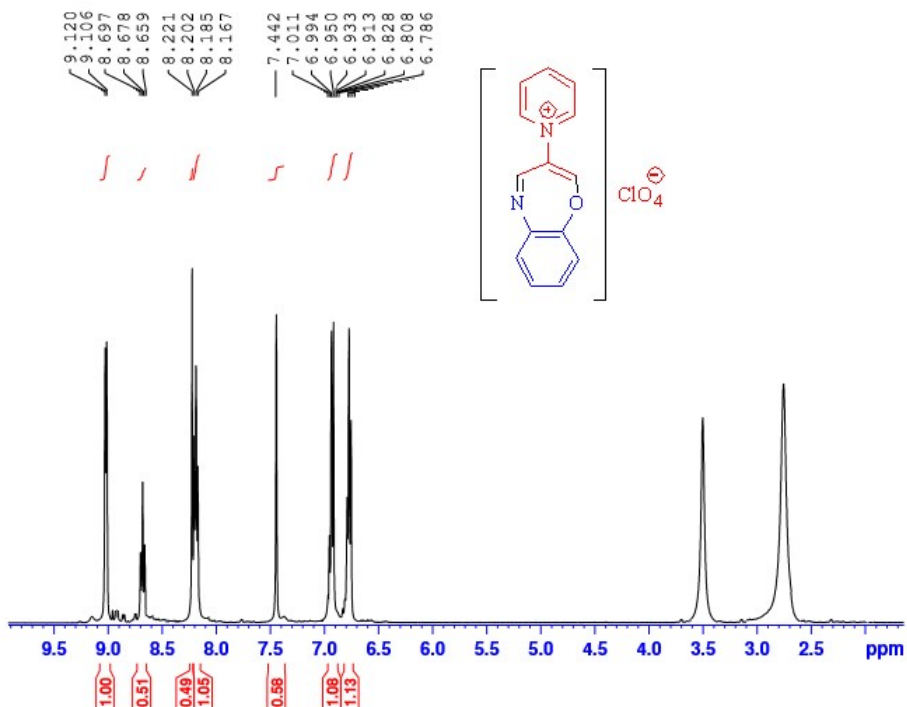
1-(Benzo[b][1,4]oxazepin-3-yl)pyridinium perchlorate 3a:





NAME Khalij Fars UN
 EXPNO 3107
 PROCNO 1
 Date_ 20190603
 Time 10.11
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 161
 DW 62.400 usec
 DE 6.50 usec
 TE 295.4 K
 D1 4.00000000 sec
 TD0 1

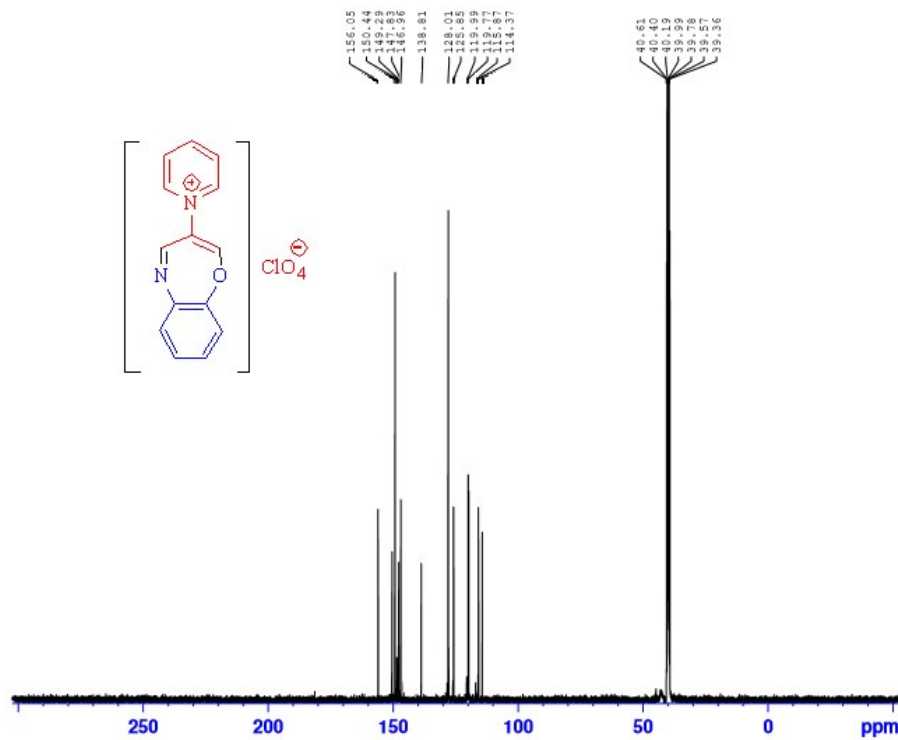
CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SP 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



NAME Khalij Fars UN
 EXPNO 3118
 PROCNO 1
 Date_ 20190622
 Time 8.49
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 101
 DW 62.400 usec
 DE 6.50 usec
 TE 295.6 K
 D1 4.00000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SP 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

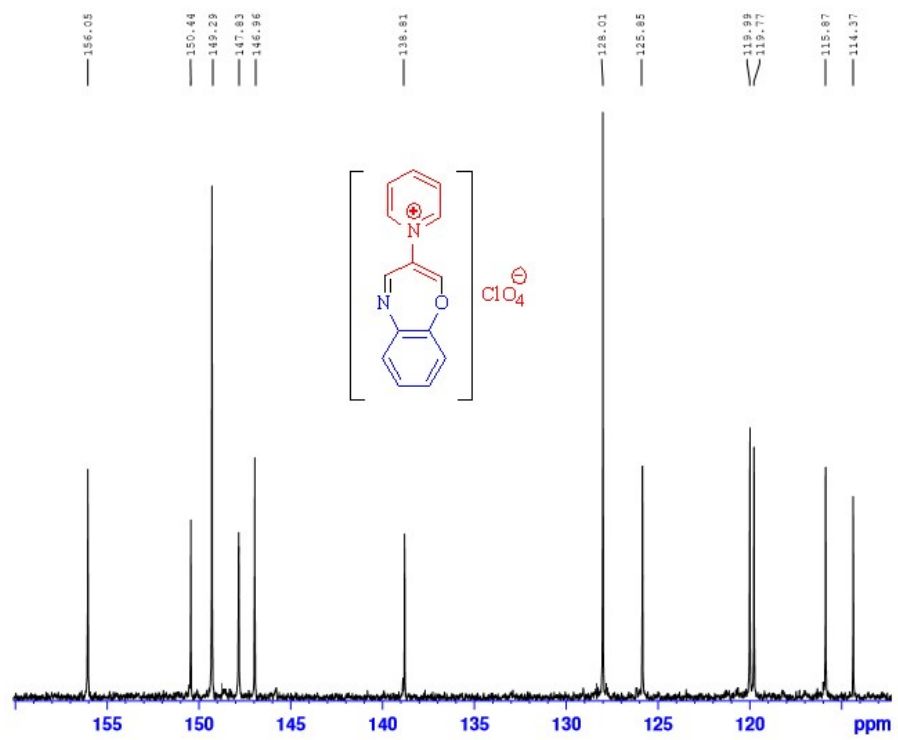
(Exchange in D₂O)



NAME Khalij Fars UN
 EXPNO 3117
 PROCNO 1
 Date_ 20190610
 Time 0.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 8192
 DS 0
 SWH 35714.285 Hz
 FIDRES 0.544957 Hz
 AQ 0.9175540 sec
 RG 2050
 DW 14.000 usec
 DE 6.50 usec
 TE 294.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

CHANNEL f1
 NUC1 13C
 P1 9.00 usec
 PL1 -0.90 dB
 PL1W 42.02801895 W
 SFO1 100.6479784 MHz

CHANNEL f2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -2.00 dB
 PL12 14.48 dB
 PL13 17.90 dB
 PL2W 11.86359406 W
 PL12W 0.26681873 W
 PL13W 0.12139934 W
 SFO2 400.2216009 MHz
 SI 32768
 SF 100.6353990 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

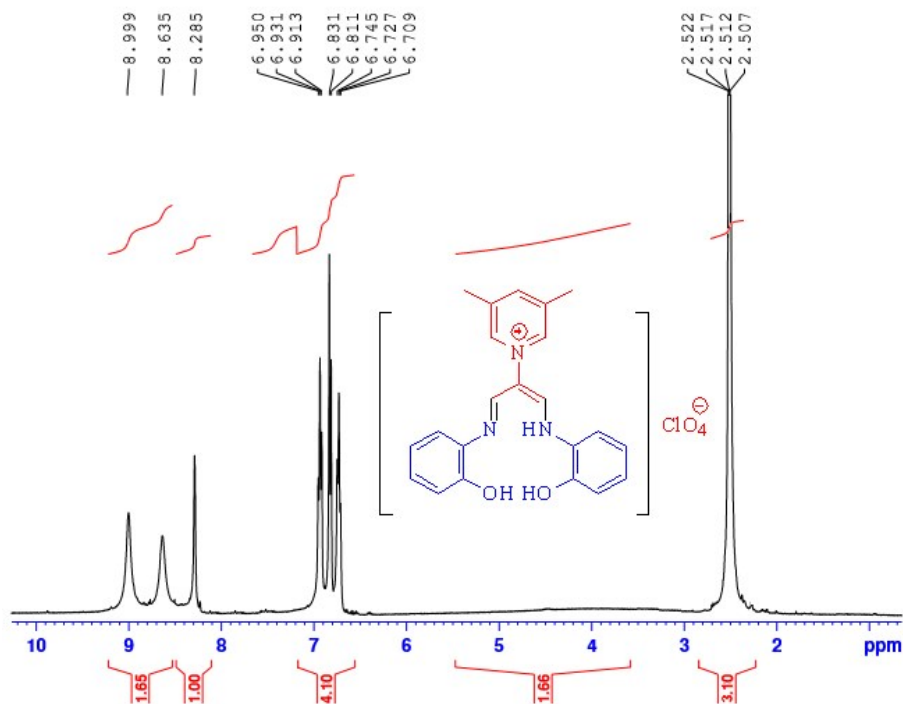


NAME Khalij Fars UN
 EXPNO 3117
 PROCNO 1
 Date_ 20190610
 Time 0.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 8192
 DS 0
 SWH 35714.285 Hz
 FIDRES 0.544957 Hz
 AQ 0.9175540 sec
 RG 2050
 DW 14.000 usec
 DE 6.50 usec
 TE 294.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

CHANNEL f1
 NUC1 13C
 P1 9.00 usec
 PL1 -0.90 dB
 PL1W 42.02801895 W
 SFO1 100.6479784 MHz

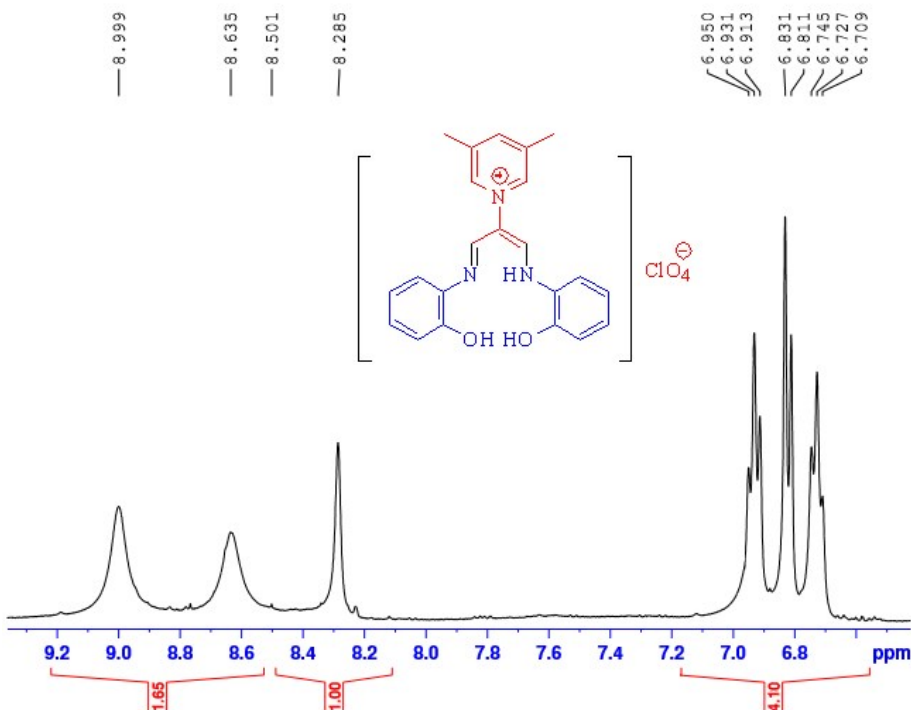
CHANNEL f2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -2.00 dB
 PL12 14.48 dB
 PL13 17.90 dB
 PL2W 11.86359406 W
 PL12W 0.26681873 W
 PL13W 0.12139934 W
 SFO2 400.2216009 MHz
 SI 32768
 SF 100.6353990 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1-((2-Hydroxyphenyl)amino)-3-((2-hydroxyphenyl)imino)propen-2-yl)-3,5-dimethylpyridinium perchlorate 3b



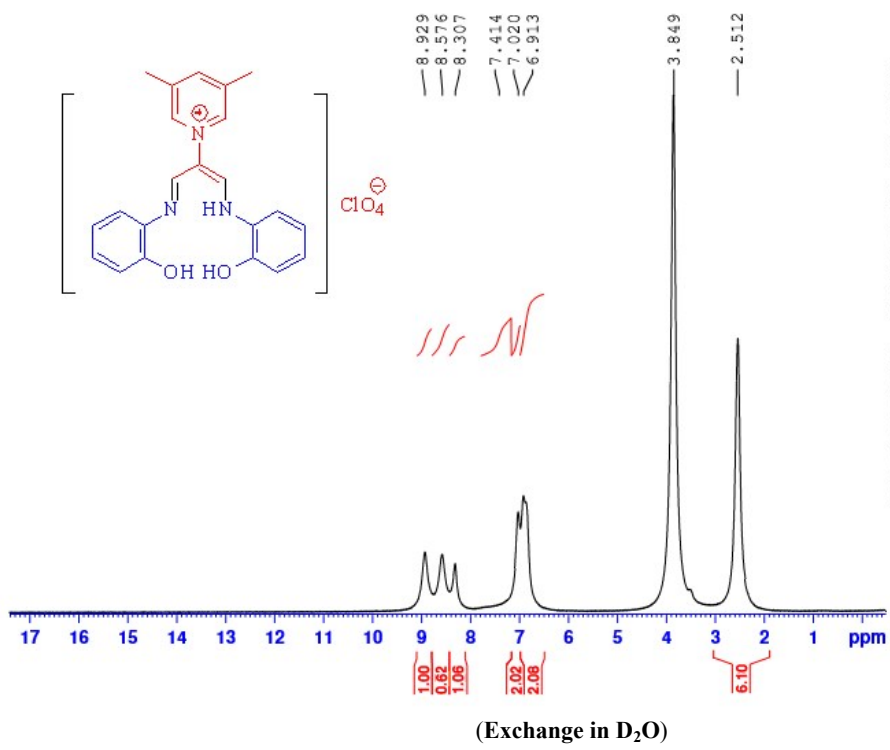
NAME Khalij Pars UN
 EXPNO 3109
 PROCNO 1
 Date_ 20190603
 Time 11.30
 INSTRUM spect
 PROBHD 5 mm PABBO BR-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 161
 DW 62.400 usec
 DE 6.50 usec
 TE 295.8 K
 D1 4.00000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SP 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



NAME Khalij Pars UN
 EXPNO 3109
 PROCNO 1
 Date_ 20190603
 Time 11.30
 INSTRUM spect
 PROBHD 5 mm PABBO BR-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 161
 DW 62.400 usec
 DE 6.50 usec
 TE 295.8 K
 D1 4.00000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SP 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

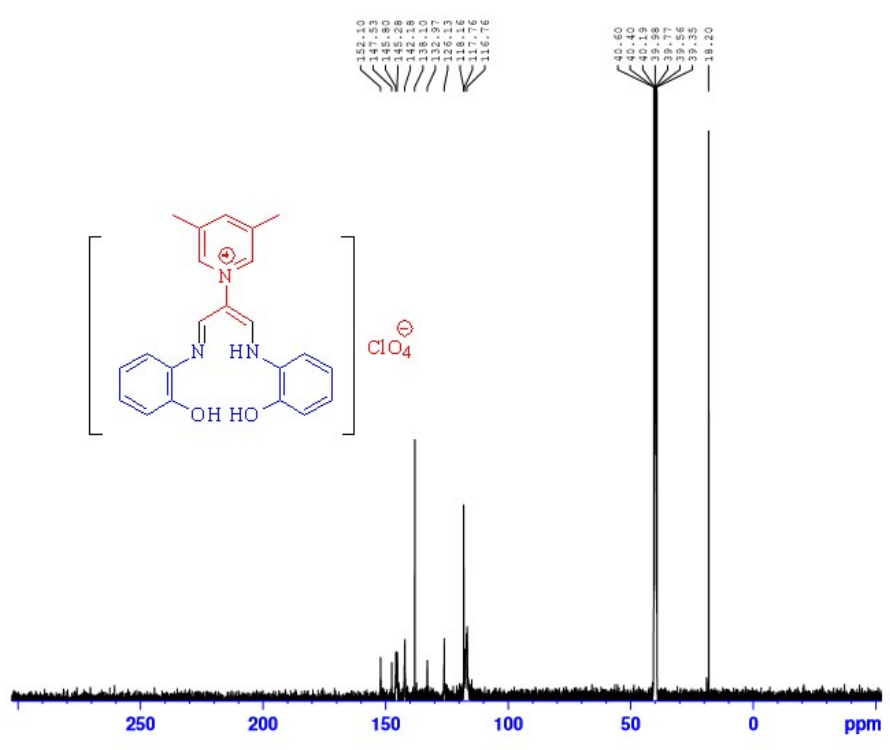


```

NAME      KhaliJ Fars UN
EXPNO     3119
PROCNO    1
Date_     20190622
Time      8.58
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zg30
TD         65536
SOLVENT   DMSO
NS         20
DS         0
SWH        8012.820 Hz
FIDRES     0.122266 Hz
AQ         4.0894966 sec
RG         101
DW         62.400 usec
DE         6.50 usec
TE         295.6 K
D1         4.00000000 sec
TDO        1
  
```

```

CHANNEL f1
-----
NUC1      1H
P1        14.00 usec
PL1       -2.00 dB
PL1W      11.86359406 W
SFO1      400.2236020 MHz
SI        32768
SF        400.2200000 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.40
  
```



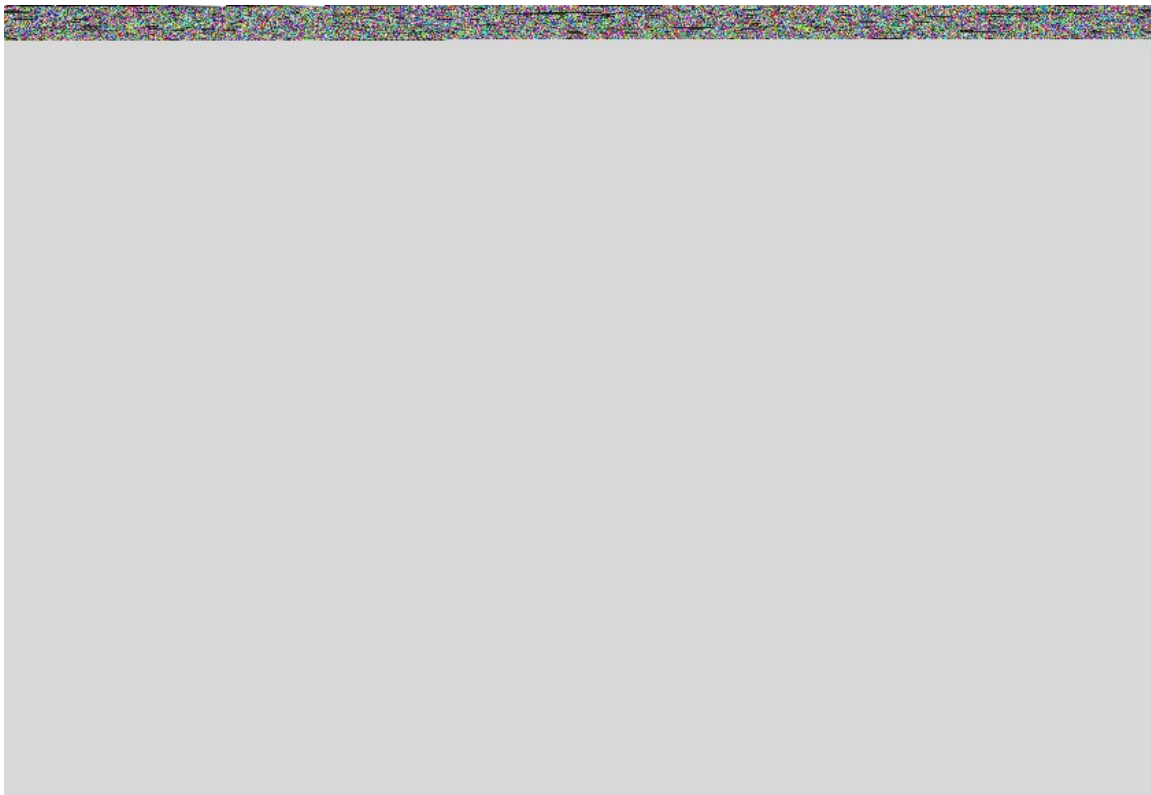
```

NAME      KhaliJ Fars UN
EXPNO     3113
PROCNO    1
Date_     20190605
Time      16.59
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD         65536
SOLVENT   DMSO
NS         8192
DS         0
SWH        35714.285 Hz
FIDRES     0.544957 Hz
AQ         0.9175540 sec
RG         2050
DW         14.000 usec
DE         6.50 usec
TE         295.2 K
D1         1.00000000 sec
D11        0.03000000 sec
TDO        1
  
```

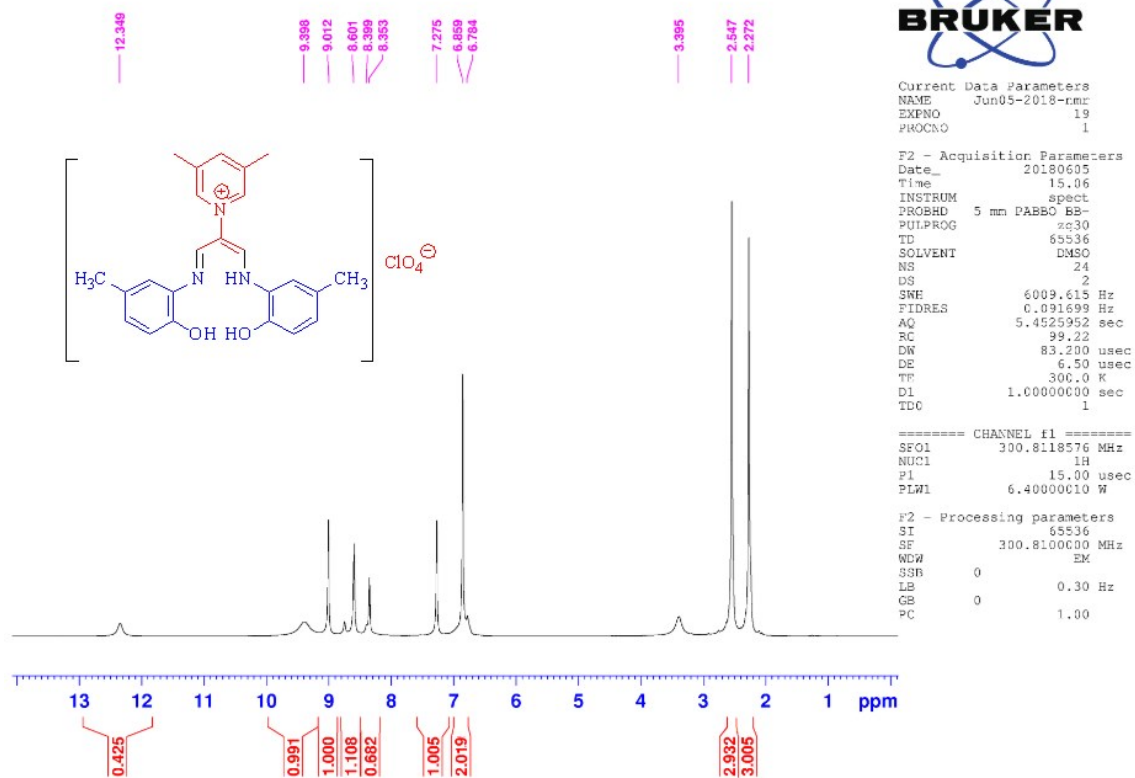
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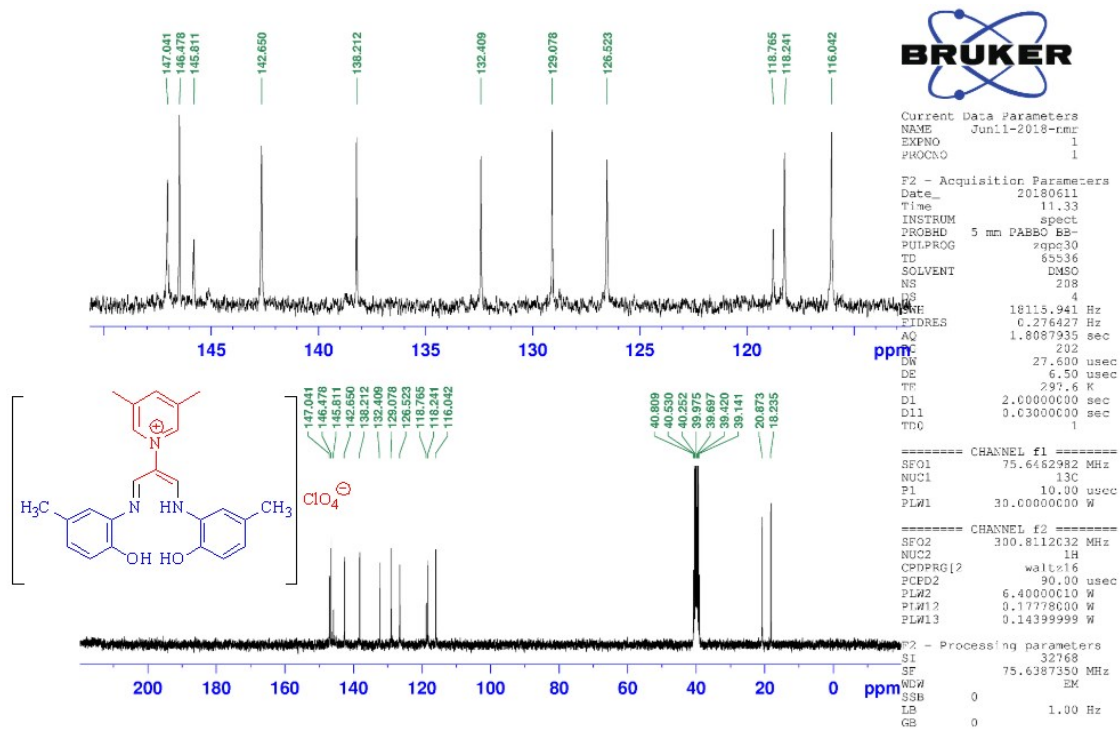
CHANNEL f1
-----
NUC1      13C
P1        9.00 usec
PL1       -0.90 dB
PL1W      42.02801895 W
SFO1      100.6479784 MHz

CHANNEL f2
-----
CPDPRG2   waltz16
NUC2      1H
PCPD2     90.00 usec
PL2       -2.00 dB
PL12      14.48 dB
PL13      17.90 dB
PL2W      11.86359406 W
PL12W     0.26681873 W
PL13W     0.12139934 W
SFO2      400.2216009 MHz
SI        32768
SF        100.6353990 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
  
```

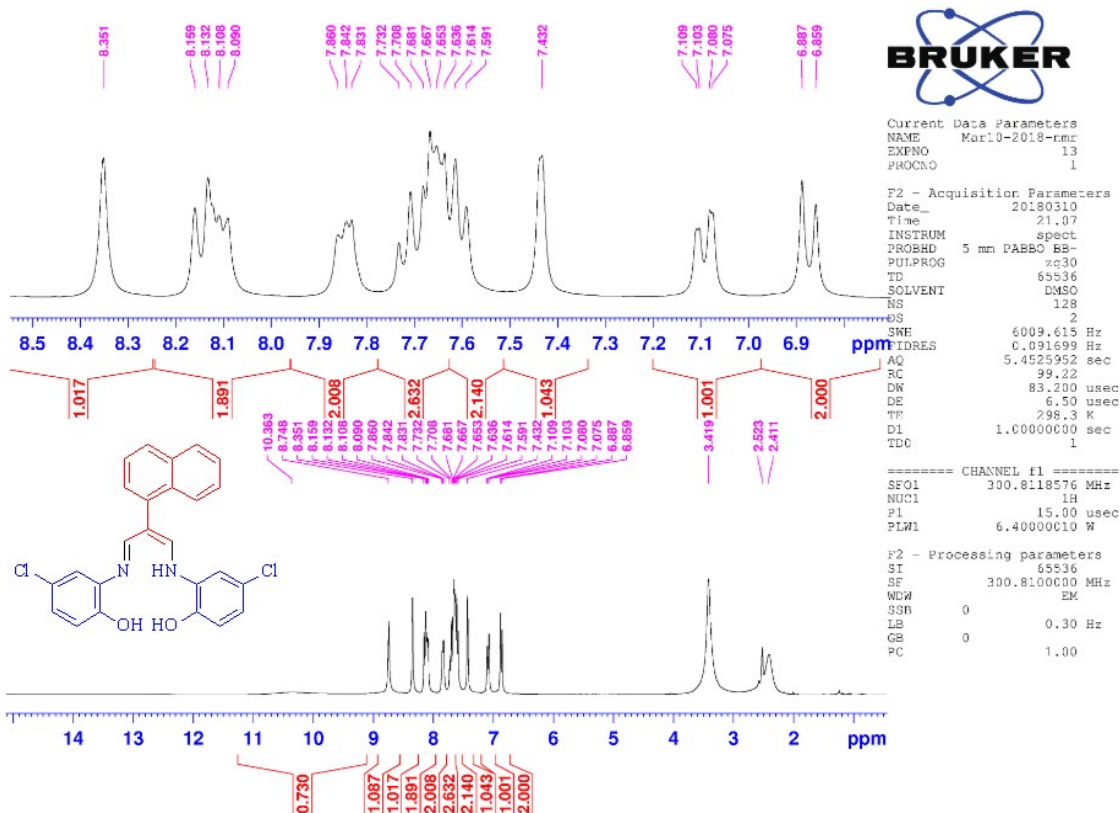


1-((2-Hydroxy-5-methylphenyl)amino)-3-((2-hydroxy-5-methylphenyl)imino) propen-2-yl)-3,5-dimethylpyridinium perchlorate 3c:





4-Chloro-3-((5-chloro-2-hydroxyphenyl)amino)-2-(naphthalen-1-yl)allylidene amino)phenol 3d:





Current Data Parameters
NAME Mar13-2018-nmr
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180313
Time 16.31
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 128
DS 2
SWH 6009.615 Hz
FIDRES 0.031699 Hz
AQ 5.4525952 sec
RG 99.22
DW 83.200 usec
DE 6.50 usec
TE 297.4 K
D1 1.00000000 sec
TDC 1

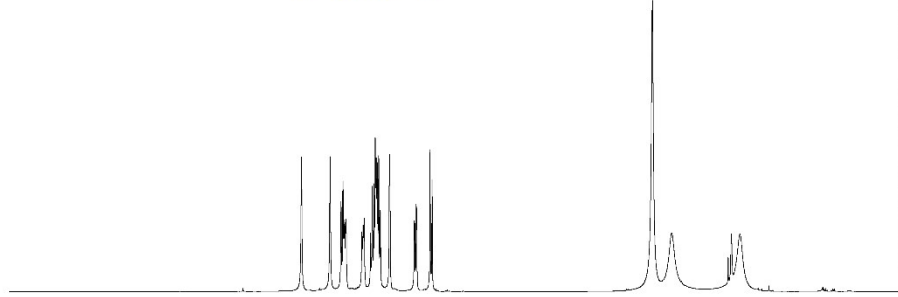
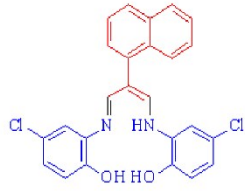
==== CHANNEL f1 =====
SFO1 300.8118576 MHz
NUC1 1H
P1 15.00 usec
PLW1 6.40000010 W

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

8.718
8.305
8.147
8.120
8.105
8.092
8.075
7.846
7.827
7.814
7.721
7.697
7.671
7.655
7.640
7.625
7.608
7.593
7.450
7.443
7.093
7.064
7.056
6.864
6.836

3.662
3.384

2.402



12 11 10 9 8 7 6 5 4 3 2 1 ppm

1.028
1.060
2.007
2.086
2.839
2.071
1.044
1.000
2.003

(Exchange in D₂O)

Dr. Mehranpour- code W1 (Samani)-Exch.



```

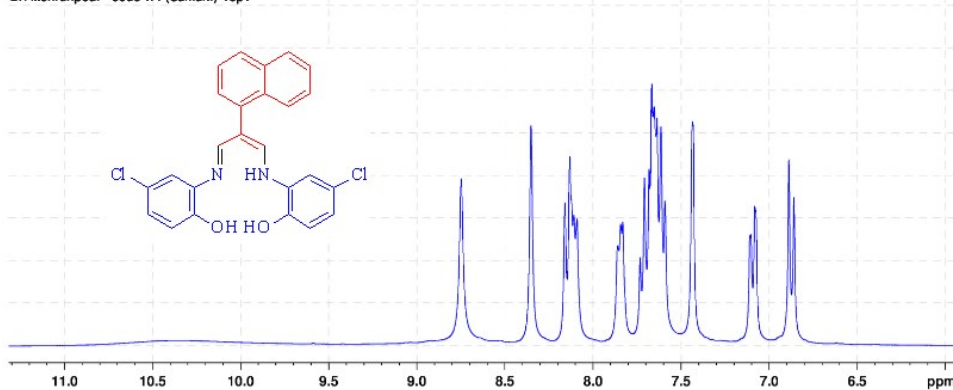
Current Data Parameters
NAME Mar15-2018-rnr
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180312
Time 16.31
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 128
DS 4
SWH 600.615 Hz
FIDRES 0.321699 Hz
AQ 5.452592 sec
RG 39.22
DE 6.50 usec
TE 297.5 K
D1 1.0000000 sec
D11 0.0000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 300.811876 MHz
NUC1 13
P1 15.00 usec
PLW1 6.4000000 W

F2 - Processing parameters
SI 32768
SF 300.8100000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
    
```

Dr. Mehranpour- code W1 (Samani)-rep1



```

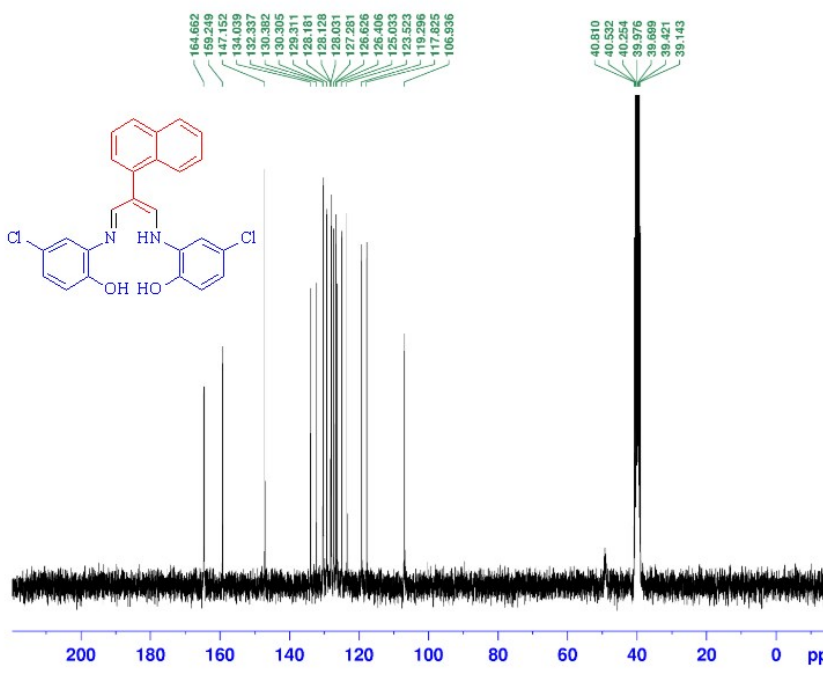
Current Data Parameters
NAME Mar15-2018-rnr
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180312
Time 21.27
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 128
DS 4
SWH 600.615 Hz
FIDRES 0.321699 Hz
AQ 5.452592 sec
RG 39.22
DE 6.50 usec
TE 297.5 K
D1 1.0000000 sec
D11 0.0000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 300.811876 MHz
NUC1 13
P1 15.00 usec
PLW1 6.4000000 W

F2 - Processing parameters
SI 32768
SF 300.8100000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
    
```

(Exchange in D₂O)



```

Current Data Parameters
NAME Mar11-2018-rnr
EXPNO 39
PROCNO 1

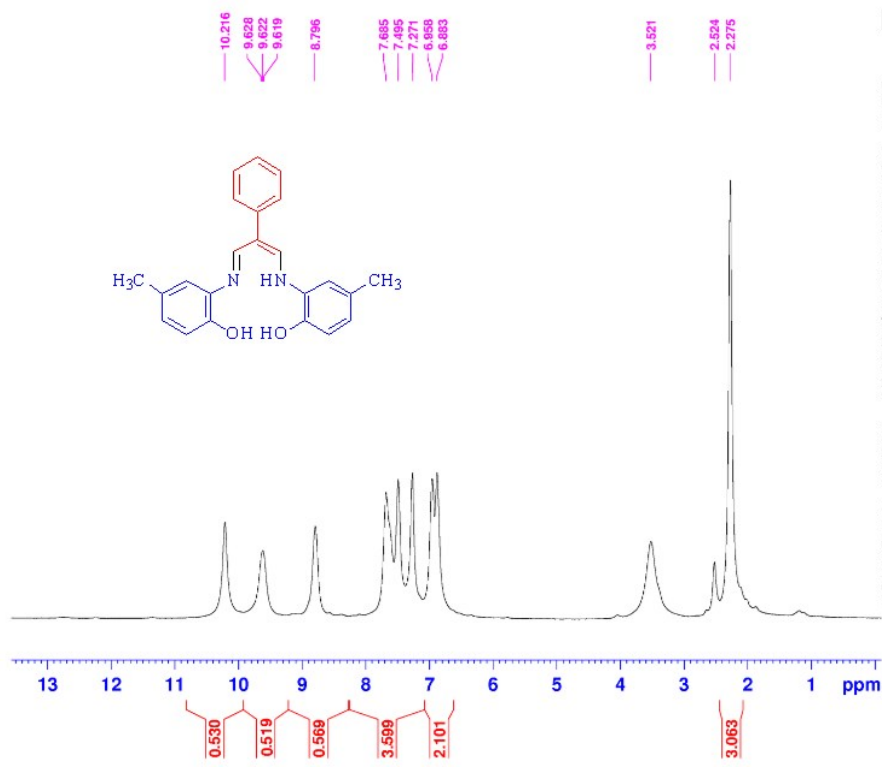
F2 - Acquisition Parameters
Date_ 20180312
Time 12.49
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 400
DS 4
SWH 18115.941 Hz
FIDRES 0.276427 Hz
AQ 1.8087935 sec
RG 202
DE 27.600 usec
TE 297.5 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

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

===== CHANNEL f2 =====
SFO2 300.8112032 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 6.4000000 W
PLW12 0.1777800 W
PLW13 0.14399999 W

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

3-((2-Hydroxy-5-methylphenyl)amino)-2-phenylallylidene)amino)-4-methylphenol 3c:

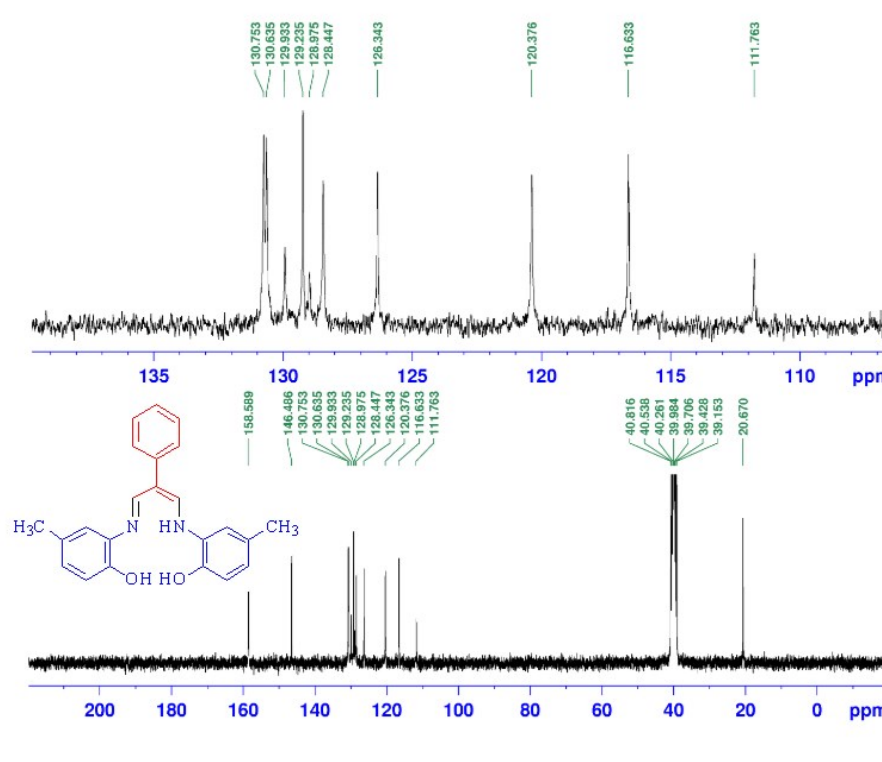


Current Data Parameters
 NAME Jun09-2018-nmr
 EXPNO 16
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180605
 Time 14.36
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 64
 DS 2
 SWE 6009.615 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RC 3.27.27
 DN 83.200 usec
 DE 6.50 usec
 TE 298.5 K
 D1 1.0000000 sec
 TDO 1

==== CHANNEL f1 =====
 SF01 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



Current Data Parameters
 NAME Jun09-2018-nmr
 EXPNO 67
 PROCNO 1

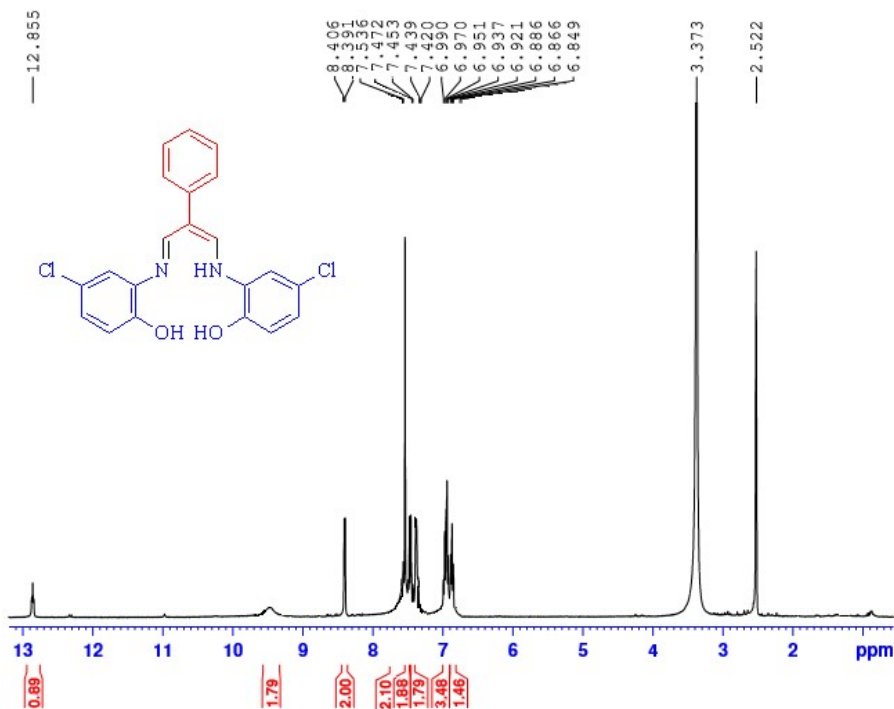
F2 - Acquisition Parameters
 Date_ 20180611
 Time 10.23
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 512
 DS 4
 SWE 18115.941 Hz
 FIDRES 0.276427 Hz
 AQ 1.8087935 sec
 RC 202
 DN 27.600 usec
 DE 6.50 usec
 TE 298.3 K
 D1 2.0000000 sec
 D11 0.6300000 sec
 TDO 1

==== CHANNEL f1 =====
 SF01 75.6452982 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 30.6000000 W

==== CHANNEL f2 =====
 SF02 300.8112032 MHz
 NUC2 1H
 CPDPRG2 waltz16
 PCPD2 90.00 usec
 PLW2 6.40000010 W
 PLW12 0.1777800 W
 PLW13 0.14399999 W

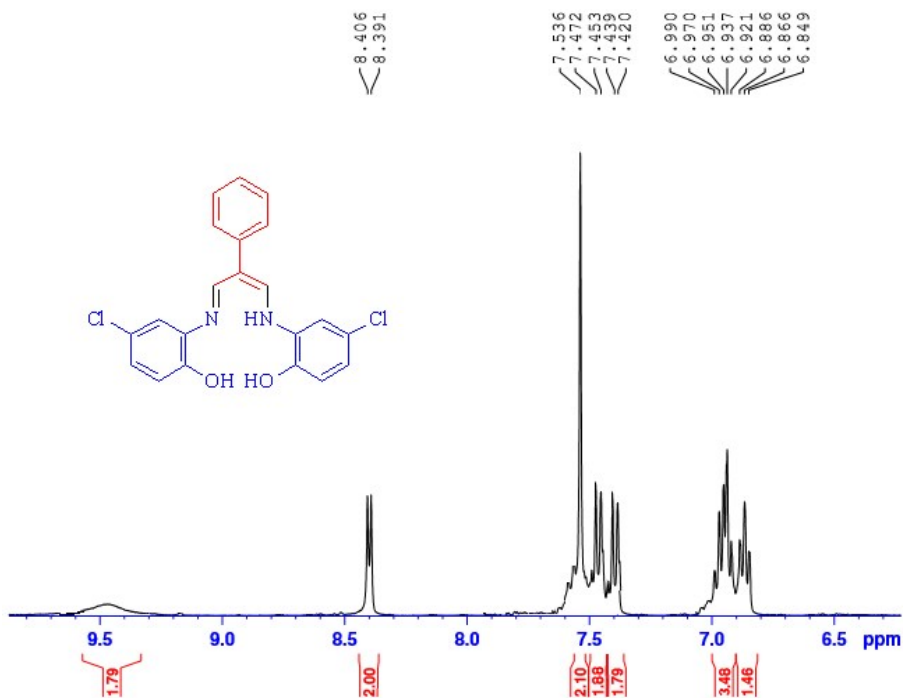
F2 - Processing parameters
 SI 32768
 SF 75.6387350 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0

4-Chloro-3-((5-chloro-2-hydroxyphenyl)amino)-2-phenylallylidene amino phenol 3f:



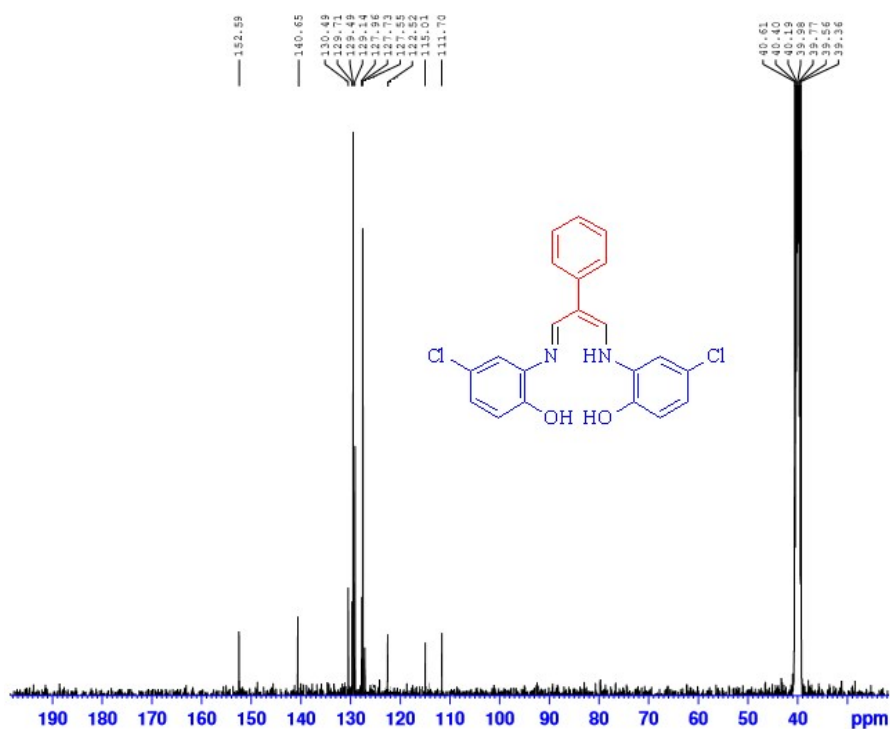
NAME Khalij Pars UN
 EXPNO 3106
 PROCNO 1
 Date_ 20190603
 Time 10.06
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 256
 DW 62.400 usec
 DE 6.50 usec
 TE 295.4 K
 D1 4.00000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SF 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



NAME Khalij Pars UN
 EXPNO 3106
 PROCNO 1
 Date_ 20190603
 Time 10.06
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 256
 DW 62.400 usec
 DE 6.50 usec
 TE 295.4 K
 D1 4.00000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SF 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

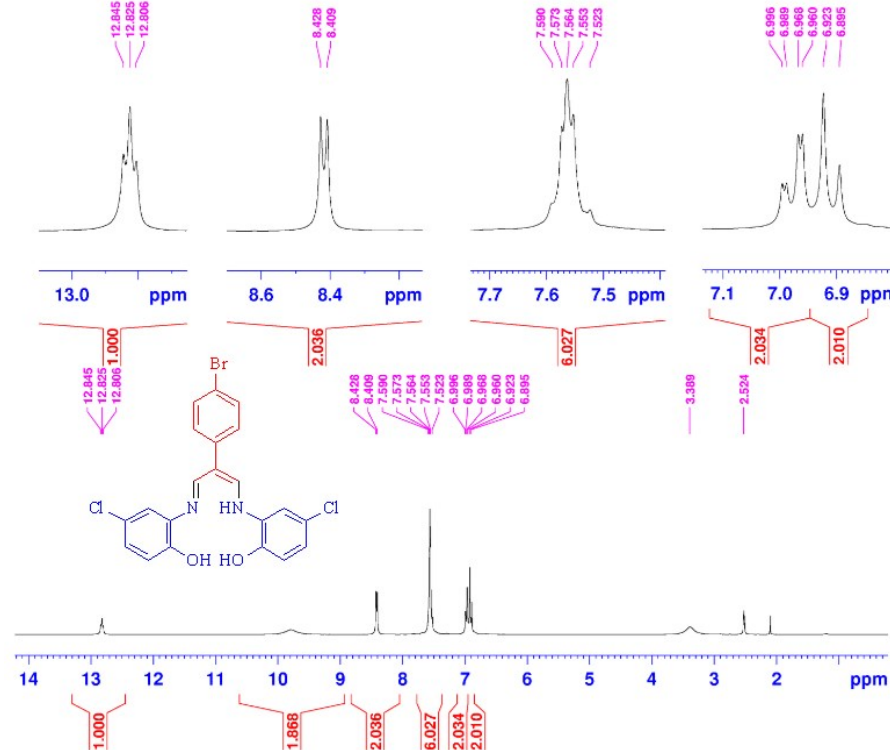


NAME Khalij Fara UN
 EXPNO 3114
 PROCNO 1
 Date_ 20190608
 Time 16.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 8192
 DS 0
 SWH 35714.285 Hz
 FIDRES 0.544957 Hz
 AQ 0.9175540 sec
 RG 2050
 DW 14.000 usec
 DE 6.50 usec
 TE 294.4 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1

CHANNEL f1
 NUC1 13C
 P1 9.00 usec
 PL1 -0.90 dB
 PL1W 42.02801895 W
 SFO1 100.6479784 MHz

CHANNEL f2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -2.00 dB
 PL12 14.48 dB
 PL13 17.90 dB
 PL2W 11.86359406 W
 PL12W 0.26681873 W
 PL13W 0.12139934 W
 SFO2 400.2216009 MHz
 SI 32768
 SF 100.6353990 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

2-(4-Bromophenyl)-3-((5-chloro-2-hydroxyphenyl)amino)allylideneamino-4-chlorophenol 3g:

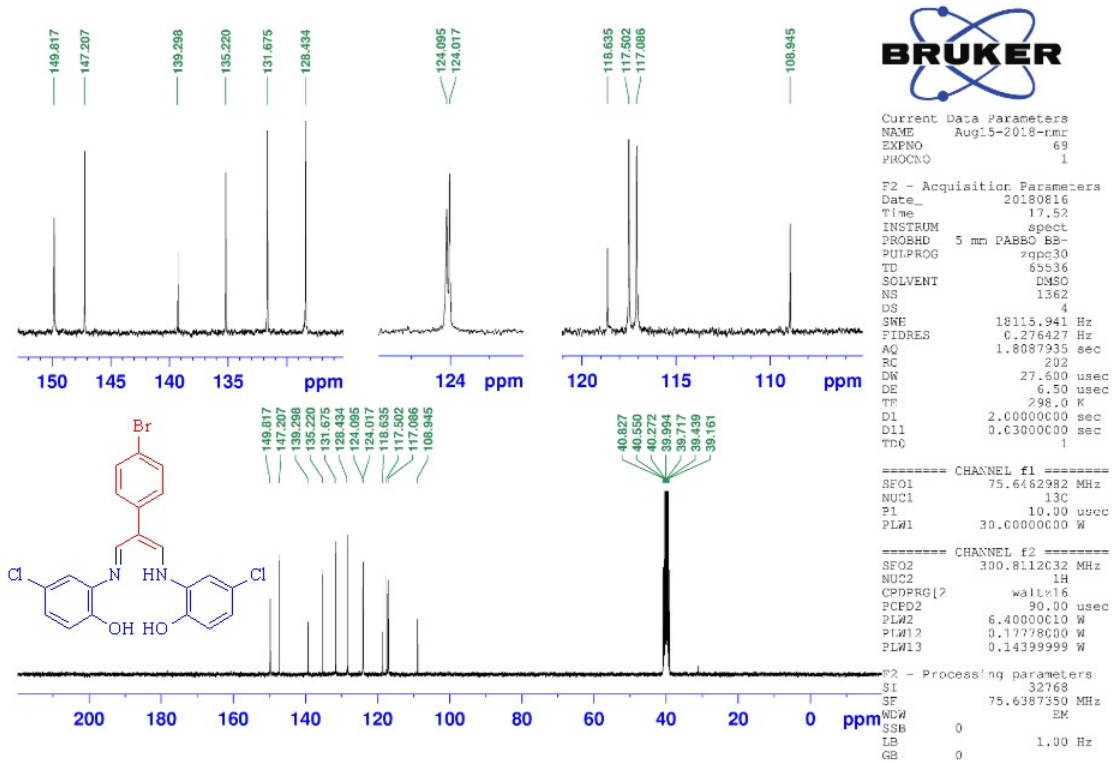


Current Data Parameters
 NAME Aug13-2018-nmr
 EXPNO 37
 PROCNO 1

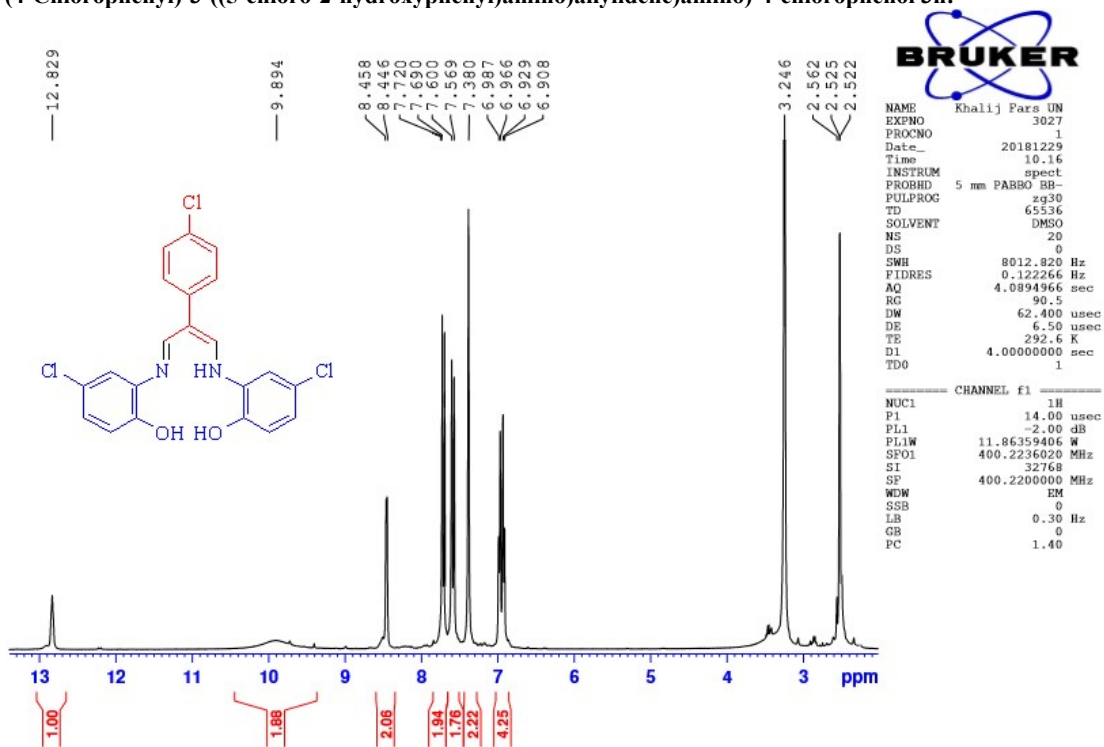
F2 - Acquisition Parameters
 Date_ 20180813
 Time 17.28
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 56
 DS 2
 SWH 6009.615 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 143.92
 DW 83.200 usec
 DE 6.50 usec
 TE 296.8 K
 D1 1.00000000 sec
 TDO 1

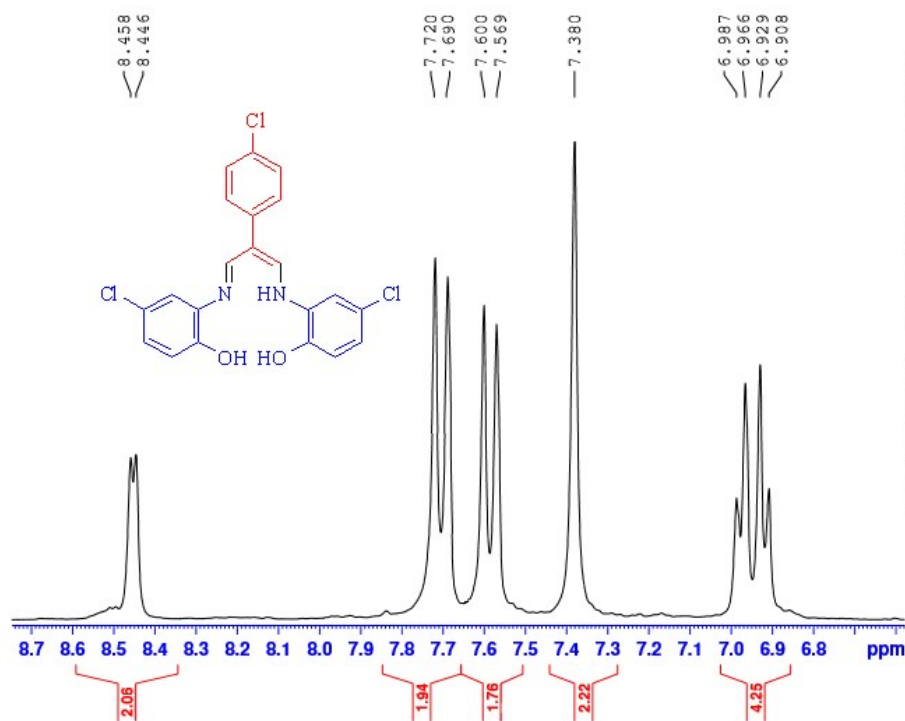
CHANNEL f1
 SFO1 300.8118576 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 6.40000010 W

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



2-(4-Chlorophenyl)-3-((5-chloro-2-hydroxyphenyl)amino)allylidene)amino-4-chlorophenol 3h:

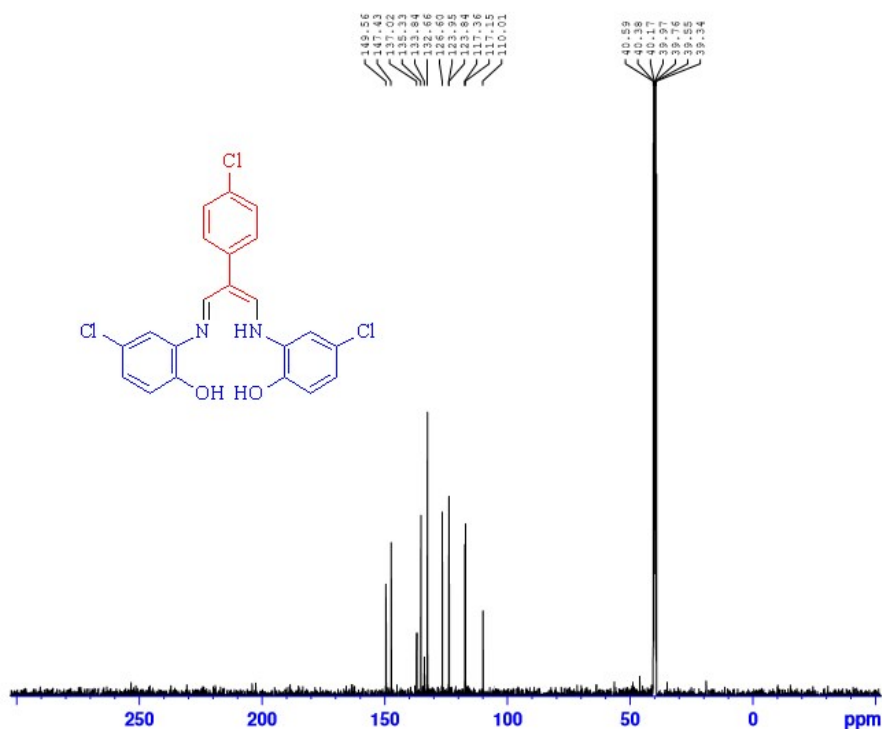




NAME Khalij Fars UN
 EXPNO 3027
 PROCNO 1
 Date_ 20181229
 Time 10.16
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 90.5
 DW 62.400 usec
 DE 6.50 usec
 TE 292.6 K
 D1 4.0000000 sec
 TDO 1

CHANNEL f1

NUC1	1H
P1	14.00 usec
PL1	-2.00 dB
PL1W	11.86359406 W
SFO1	400.2236020 MHz
SI	32768
SF	400.2200000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.40



NAME Khalij Fars UN
 EXPNO 3028
 PROCNO 1
 Date_ 20181229
 Time 10.17
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1520
 DS 0
 SWH 35714.285 Hz
 FIDRES 0.544957 Hz
 AQ 0.9175540 sec
 RG 2050
 DW 14.000 usec
 DE 6.50 usec
 TE 292.6 K
 D1 1.0000000 sec
 D11 0.0300000 sec
 TDO 1

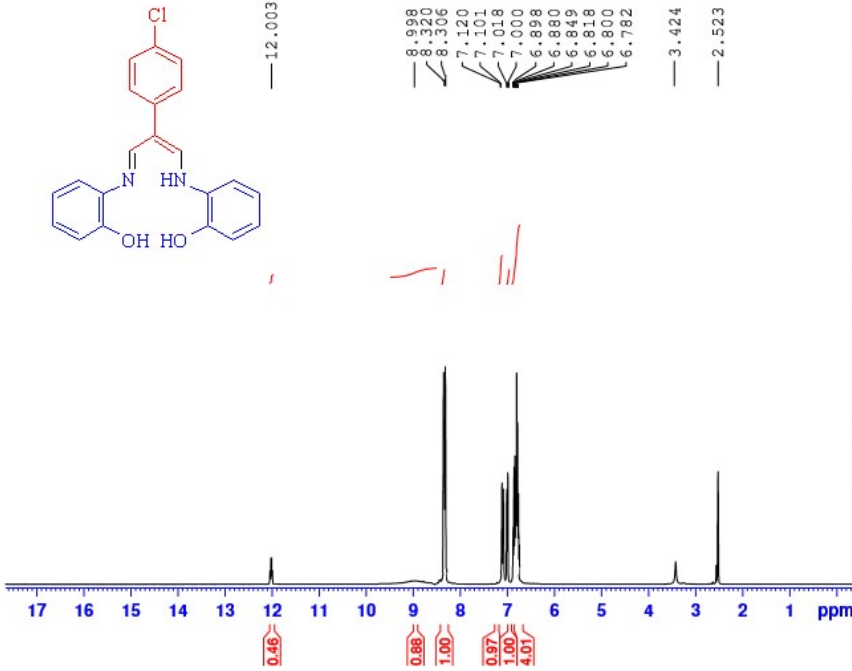
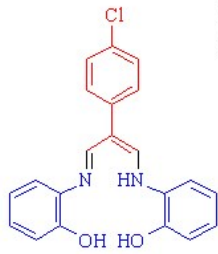
CHANNEL f1

NUC1	13C
P1	9.00 usec
PL1	-0.90 dB
PL1W	42.02801895 W
SFO1	100.6479784 MHz

CHANNEL f2

CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-2.00 dB
PL2W	14.48 dB
PL3	17.90 dB
PL2W	11.86359406 W
PL12W	0.26681873 W
PL13W	0.12139934 W
SFO2	400.2216009 MHz
SI	32768
SF	100.6353990 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.20

2-(4-Chlorophenyl)-3-((2-hydroxyphenyl)amino)allylidene)amino)phenol 3i:

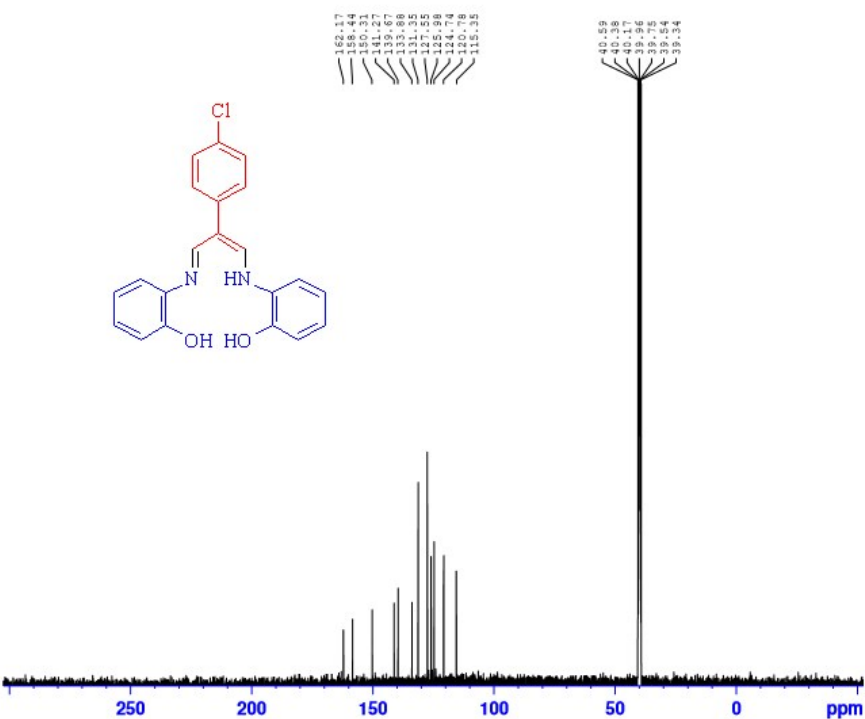
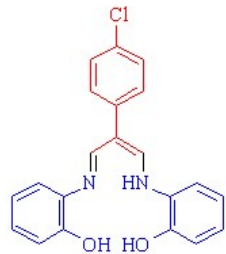


```

NAME      Khalij Fars UN
EXPNO     3008
PROCNO    1
Date_     20181226
Time      17.08
INSTRUM   spect
PROBRD    5 mm PABBO BB-
PULPROG   zg30
TD         65536
SOLVENT    DMSO
NS         20
DS         0
SWH        8012.820 Hz
FIDRES     0.122266 Hz
AQ         4.0894966 sec
RG         101
DW         62.400 usec
DE         6.50 usec
TE         293.2 K
D1         4.0000000 sec
TDO        1
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1        14.00 usec
PL1       -2.00 dB
PL1W      11.86359406 W
SFO1      400.2236020 MHz
SI        32768
SF        400.2200000 MHz
WDW        EM
SSB        0
LB        0.30 Hz
GB         0
PC         1.40
  
```



```

NAME      Khalij Fars UN
EXPNO     3012
PROCNO    1
Date_     20181227
Time      9.50
INSTRUM   spect
PROBRD    5 mm PABBO BB-
PULPROG   zgpg30
TD         65536
SOLVENT    DMSO
NS         6100
DS         0
SWH        35714.285 Hz
FIDRES     0.544957 Hz
AQ         0.9175540 sec
RG         2050
DW         14.000 usec
DE         6.50 usec
TE         294.0 K
D1         1.0000000 sec
D11        0.0300000 sec
TDO        1
  
```

```

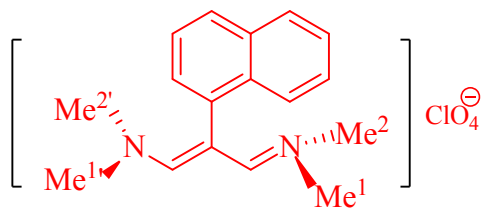
===== CHANNEL f1 =====
NUC1      13C
P1        9.00 usec
PL1       -0.90 dB
PL1W      42.02801895 W
SFO1      100.6479784 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     90.00 usec
PL2       -2.00 dB
PL12      14.48 dB
PL13      17.90 dB
PL12W     11.86359406 W
PL12W     0.26681873 W
PL13W     0.12139934 W
SFO2      400.2215009 MHz
SI        32768
SF        100.6353990 MHz
WDW        EM
SSB        0
LB        1.00 Hz
GB         0
PC         1.20
  
```

Spectral data of trimethinium salt 1c-1f:

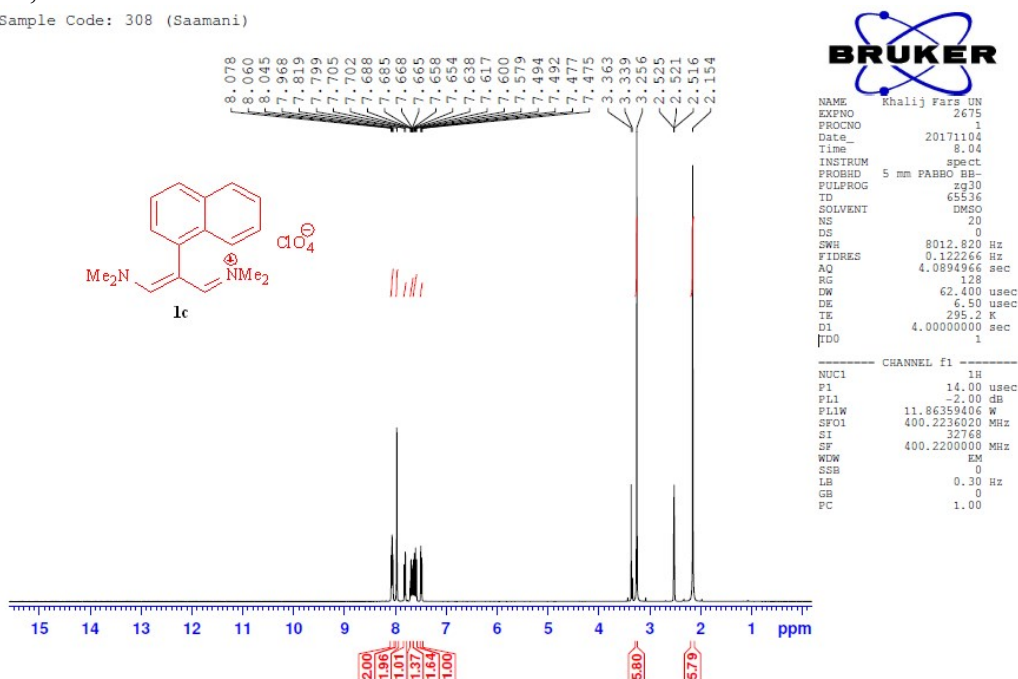
N - (3- (dimethylamino) -2- (naphthalen-1-yl) allylidine) - N-methyl metamine perchlorate 1c:



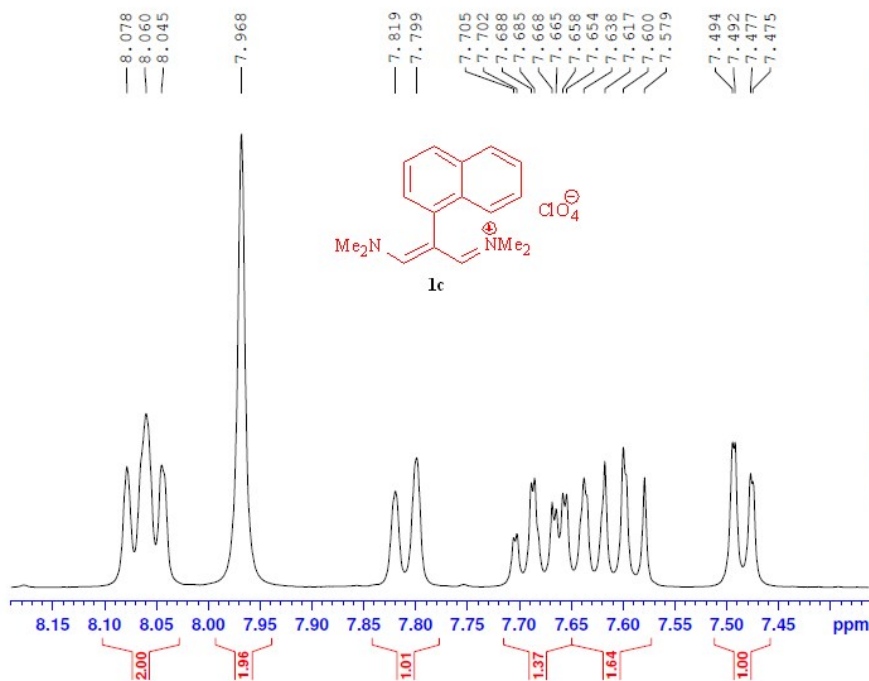
1c

Yellow powder; Yield (70%); m.p. 206-208 °C; ¹H NMR (DMSO-*d*₆, 400 MHz) δ (ppm): 2.15 (s, 6H, NMe^{2,2'}), 3.25 (s, 6H, NMe^{1,1'}), 7.48 (dd, *J* = 0.8, 6.8 Hz, 1H), 7.57-7.70 (m, 3H), 7.80 (d, *J* = 8 Hz, 2H), 7.96 (s, 2H), 8.06 (t, *J* = 6.6 Hz, 2H). ¹³C NMR (DMSO-*d*₆, 100 MHz) δ (ppm): 49.0, 102.3, 125.7, 126.1, 127.2, 128.1, 129.1, 129.9, 130.3, 130.9, 133.2, 134.1, 164.3.

Sample Code: 308 (Saamani)



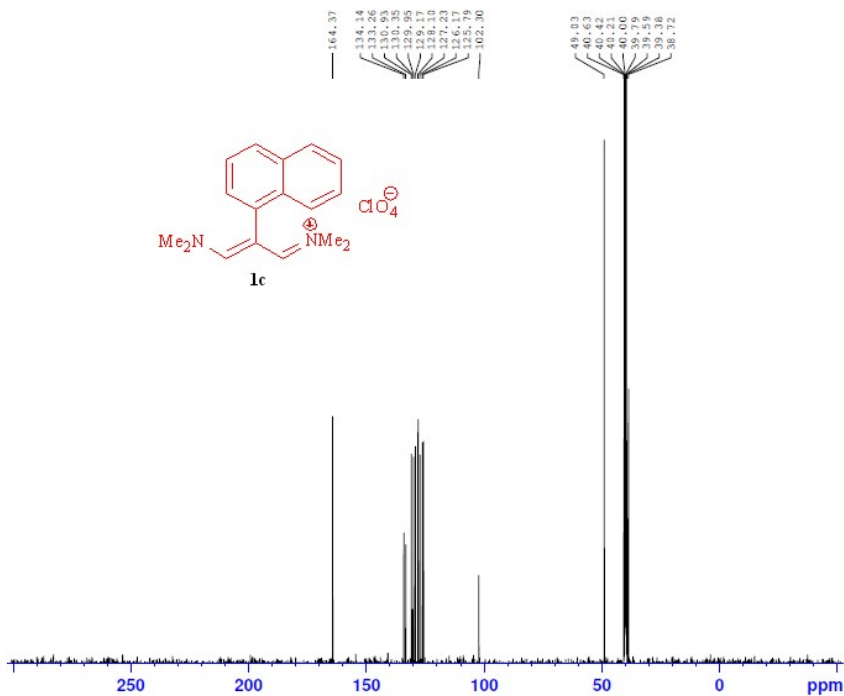
Sample Code: 308 (Saamani)



NAME Khalij Fars UN
 EXPNO 2675
 PROCNO 1
 Date_ 20171104
 Time_ 8.04
 INSTRUM spect
 PROBHD 5 mm PABBO BH-
 PULPROG zg30
 ID 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 128
 DW 62.400 usec
 DE 6.50 usec
 TE 295.2 K
 D1 4.0000000 sec
 TD0 1

CHANNEL f1
 NUC1 1H
 P1 14.00 usec
 PL1 2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SF 400.2200000 MHz
 NDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Sample Code:308 (Saamani)

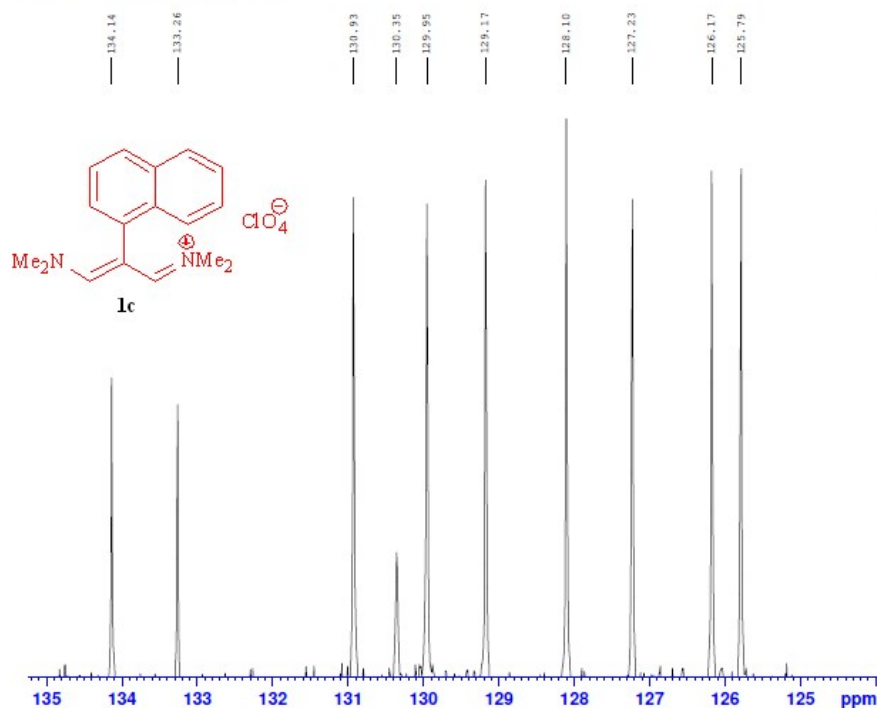


NAME Khalij Fars UN
 EXPNO 2732
 PROCNO 1
 Date_ 20171108
 Time_ 17.48
 INSTRUM spect
 PROBHD 5 mm PABBO BH-
 PULPROG zgpg30
 ID 65536
 SOLVENT DMSO
 NS 476
 DS 0
 SWH 35714.285 Hz
 FIDRES 0.544957 Hz
 AQ 0.9175540 sec
 RG 50.8
 DW 14.000 usec
 DE 6.50 usec
 TE 295.9 K
 D1 1.0000000 sec
 D11 0.0300000 sec
 TD0 1

CHANNEL f1
 NUC1 13C
 P1 9.00 usec
 PL1 -0.90 dB
 PL1W 42.02801895 W
 SFO1 100.6479784 MHz

CHANNEL f2
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -2.00 dB
 PL12 14.48 dB
 PL13 17.90 dB
 PL2W 11.86359406 W
 PL12W 0.26681873 W
 PL13W 0.12139934 W
 SFO2 400.2216009 MHz
 SI 32768
 SF 100.6353990 MHz
 NDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

Sample Code:308 (Saamani)



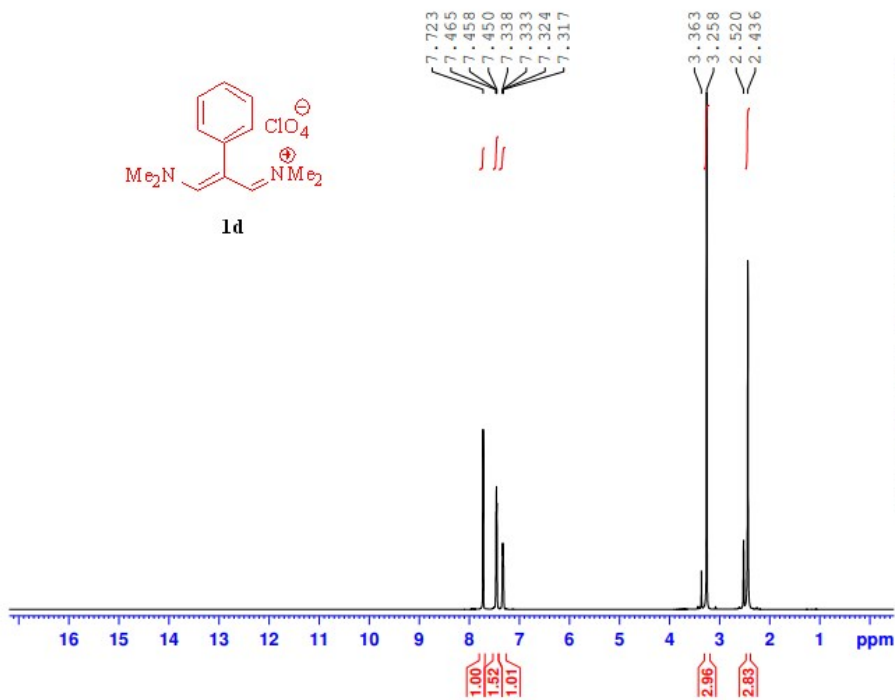
```
NAME      Khali j Fars UN
EXPNO     2732
PROCNO    1
Date_     20171108
Time      17.48
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD         65536
SOLVENT   DMSO
NS         476
DS         0
SWH        35714.285 Hz
FIDRES     0.544957 Hz
AQ         0.9175540 sec
RG         50.8
DW         14.000 usec
DE         6.50 usec
TE         295.9 K
D1         1.0000000 sec
D11        0.0300000 sec
TDD        1

===== CHANNEL f1 =====
NUC1       13C
P1         9.00 usec
PL1        -0.90 dB
PL1W       42.02801895 W
SFO1       100.6479784 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      90.00 usec
PL2        -2.00 dB
PL12       14.48 dB
PL13       17.90 dB
PL2W       11.86359406 W
PL12W      0.26681873 W
PL13W      0.12139934 W
SFO2       400.2216009 MHz
S1         32768
SF         100.6353990 MHz
WEW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

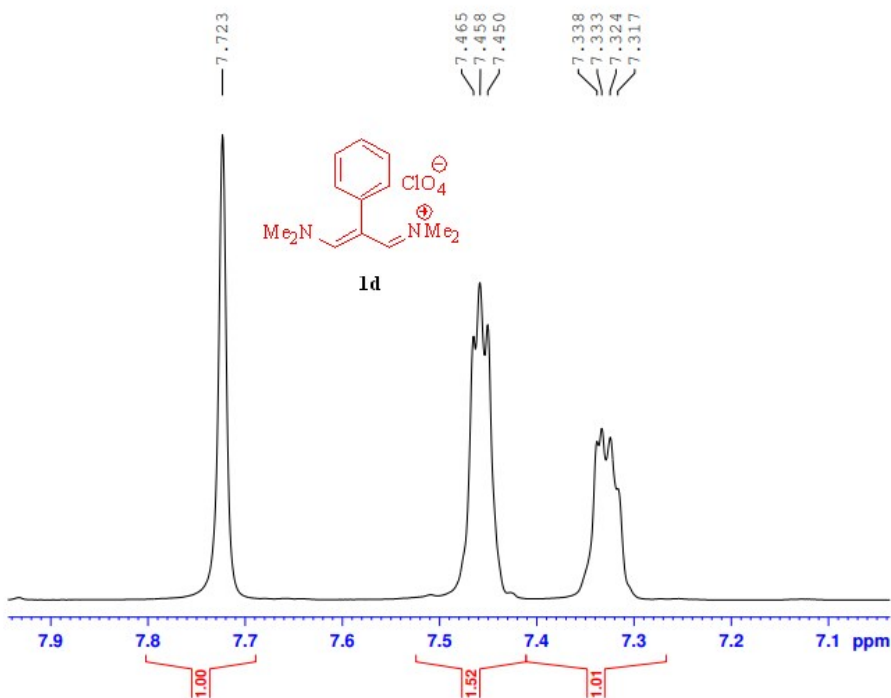
N - (3- (dimethylamino) -2- (phenylallylidine) - N-methyl metamine perchlorate
1d:

White powder; Yield (75%); m.p. 200-202 °C; ¹H NMR (DMSO-*d*₆, 400 MHz) δ (ppm): 2.43 (s, 6H), 3.25 (s, 6H), 7.31-7.33 (m, 2H), 7.45 (t, *J*= 3 Hz, 3H), 7.72 (s, 2H). ¹³C NMR (DMSO-*d*₆, 100 MHz) δ (ppm): 49.0, 105.5, 128.9, 129.2, 132.6, 133.0, 163.3.



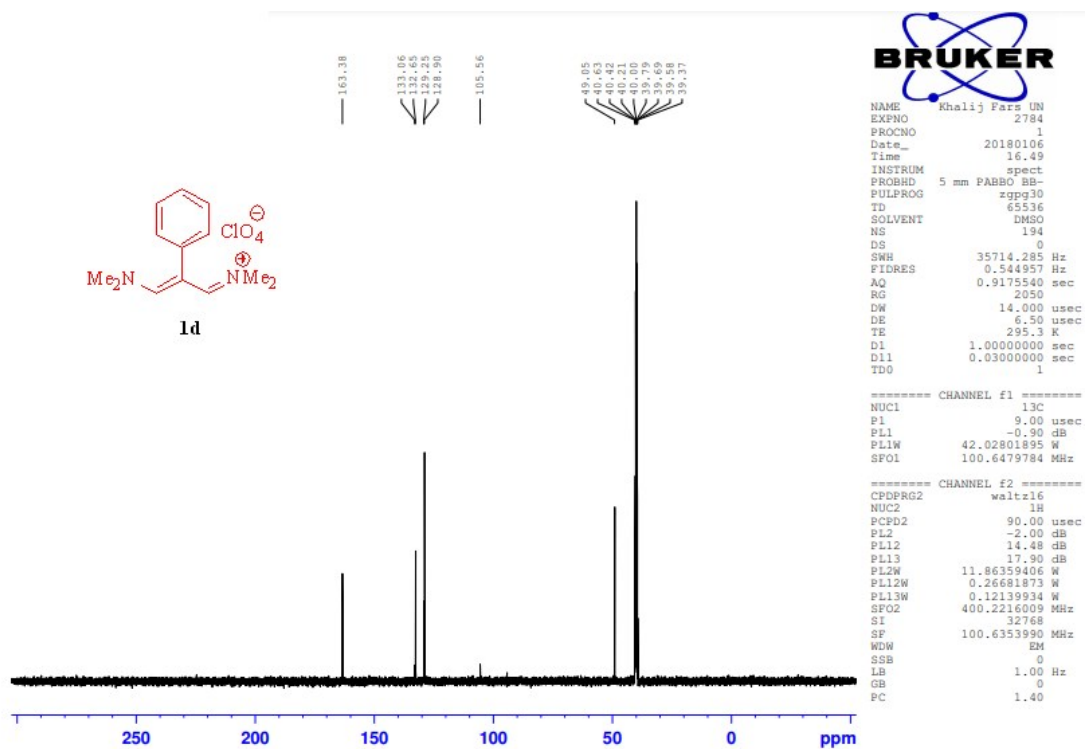
NAME Khalij Fars UN
 EXPNO 2783
 PROCNO 1
 Date_ 20180106
 Time 16.47
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 71.8
 DW 62.400 usec
 DE 6.50 usec
 TE 295.0 K
 D1 4.0000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SF 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



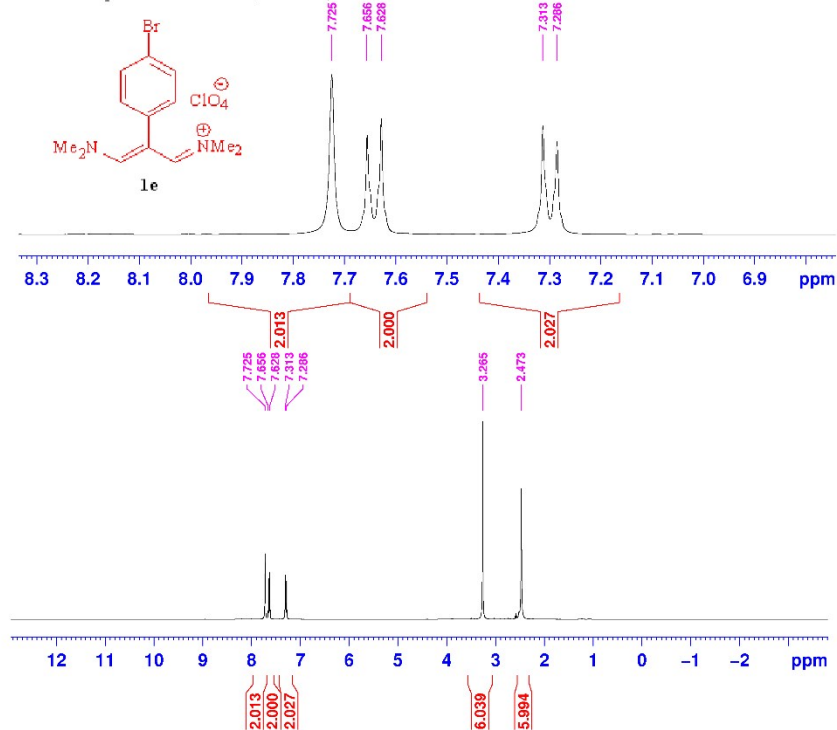
NAME Khalij Fars UN
 EXPNO 2783
 PROCNO 1
 Date_ 20180106
 Time 16.47
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 20
 DS 0
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 71.8
 DW 62.400 usec
 DE 6.50 usec
 TE 295.0 K
 D1 4.0000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 -2.00 dB
 PL1W 11.86359406 W
 SFO1 400.2236020 MHz
 SI 32768
 SF 400.2200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



N-(2-(4-bromophenyl)-3-(dimethylamino)-allylidene)-N-methylmethanaminium perchlorate **1e**:
 White powder; Yield (85%); m.p. 148-150 °C; ¹H NMR (DMSO-*d*₆, 300 MHz) δ (ppm): 2.47 (s, 6H), 3.26 (s, 6H), 7.29 (d, *J* = 8.1 Hz, 2H), 7.64 (d, *J* = 8.4 Hz, 2H), 7.72 (s, 2H). ¹³C NMR (DMSO-*d*₆, 75 MHz) δ (ppm): 49.1, 104.0, 122.6, 131.7, 132.4, 134.7, 163.3.

Dr.mehranpour- code 200(rafiee)-



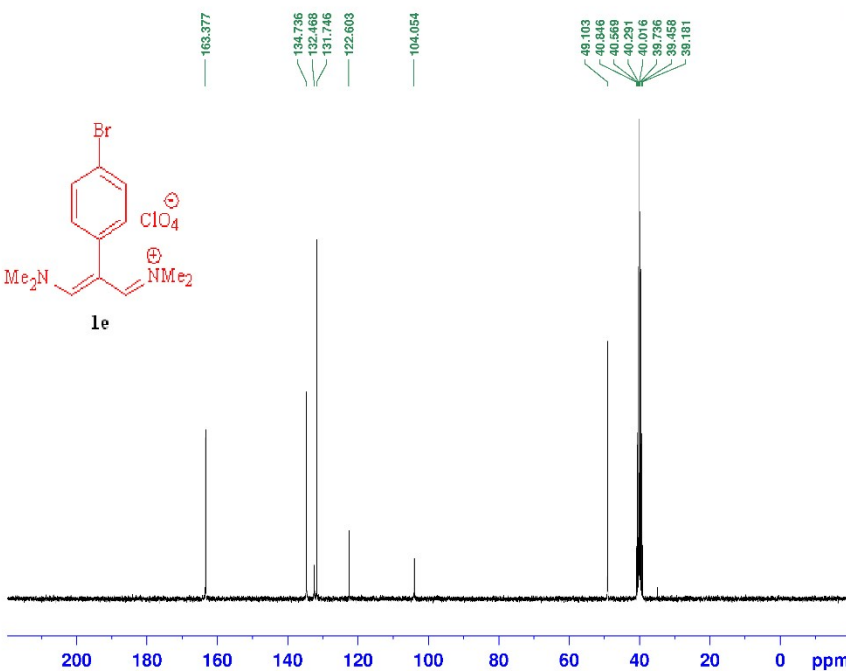
Current Data Parameters
 NAME Aug06-2018-nmr
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180306
 Time 13.11
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 4
 DS 2
 SWH 6009.615 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 64.01
 DW 83.200 usec
 DE 6.50 usec
 TE 295.8 K
 D1 1.0000000 sec
 TDO 1

CHANNEL f1
 SFO1 300.8118576 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 6.4000010 W

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

C13-Dr.mehranpour- code 200(rafiee)-



Current Data Parameters
 NAME Aug15-2018-nmr
 EXPNO 65
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180816
 Time 14.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 256
 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 297.8 K
 D1 2.0000000 sec
 D11 0.0300000 sec
 TDO 1

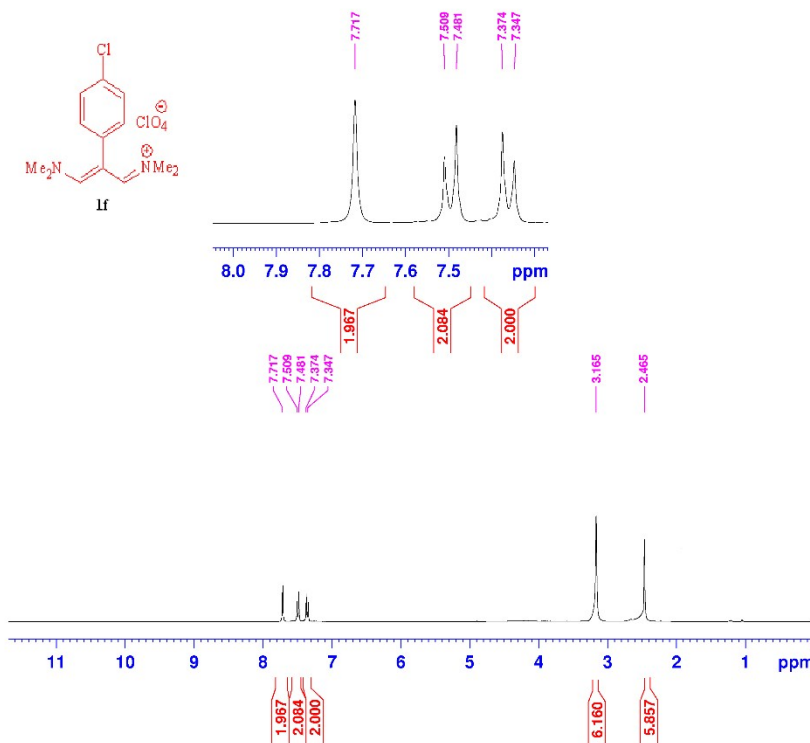
CHANNEL f1
 SFO1 75.6462982 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 30.0000000 W

CHANNEL f2
 SFO2 300.8112032 MHz
 NUC2 1H
 CPDPRG2 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
 NDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N-(2-(4-chlorophenyl)-3-(dimethylamino)-allylidene)-N-methylmethanaminium perchlorate 1f:

White powder; Yield (80%); m.p. 89-91 °C; ¹H NMR (DMSO-*d*₆, 300 MHz) δ (ppm): 2.46 (s, 6H), 3.16 (s, 6H), 7.36 (d, *J*= 8.1 Hz, 2H), 7.49 (d, *J*= 8.4 Hz, 2H), 7.71 (s, 2H). ¹³C NMR (DMSO-*d*₆, 75 MHz) δ (ppm): 50.0, 105.0, 121.3, 129.3, 132.1, 134.6, 163.5.



Current Data Parameters
NAME Aug06-2018-nmr
EXDNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180806
Time 13.17
INSTRUM spect
PROBHD 5 mm PABBO B3-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 6009.615 Hz
FIDRFS 0.091699 Hz
AQ 5.452982 sec
RG 33.22
DW 83.200 usec
DE 6.50 usec
TE 295.7 K
D1 1.0000000 sec
F00 1

----- CHANNEL f1 -----
SF01 300.8118576 MHz
NUC1 1H
P1 15.00 usec
PLW1 6.4000010 W
F2 - Processing parameters
SI 65536
SF 300.810000 MHz
WDW *M
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Current Data Parameters
NAME Sep21-2018-nmr
EXPNO 45
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180923
Time 9.30
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 96
DS 4
SWH 18115.941 Hz
FIDRES 0.276427 Hz
AQ 1.8087935 sec
RG 202
DM 27.600 usec
DE 6.50 usec
TE 297.7 K
D1 2.0000000 sec
D11 0.0300000 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
CPDPRG2 wal-z16
PCPD2 90.00 usec
PLW2 6.4000010 W
PLW12 0.1777800 W
PLW13 0.1439999 W

F2 - Processing parameters
SI 32768
SF 75.6387350 MHz
MNM EM
SSB 0
GB 0 1.00 Hz
EC 1.40

