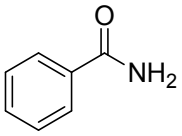
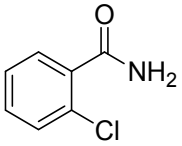
Supporting Information

Benzamide[1]



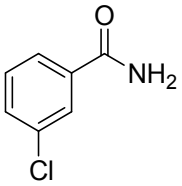
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.45-7.51 (m, 3H), 7.53 (s, 1H), 7.96-7.99 (m, 2H), 8.13 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 128.5 ($2CH_2$), 122.2 ($2CH_2$), 132.2 (CH), 135.2 (C), 169.2 (CO).

2-Chlorobenzamide[1]



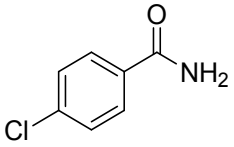
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.38-7.63 (m, 4H), 7.63 (s, 1H), 7.91 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 127.9, 129.5, 130.5, 131.5 (CH), 138.0 (C), 169.1 (CO).

3-Chlorobenzamide[1]



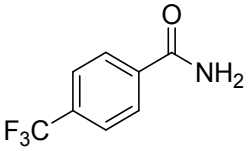
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.49-7.65 (m, 3H), 7.85-7.94 (m, 2H), 8.12 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 127.1 (CH), 128.3 (CH), 131.2 (CH), 132.1 (CH), 134.1 (C), 137.2 (C), 167.4 (CO).

4-Chlorobenzamide[1]



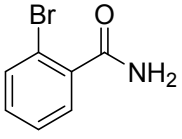
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.50-7.56 (m, 3H), 7.92-7.96 (m, 3H); **^{13}CNMR** (DMSO-d_6): δ = 129.0 (2CH), 131.7 (2CH), 133.2 (C), 137.2 (C), 167.9 (CO).

4-(trifluoromethyl)benzamide



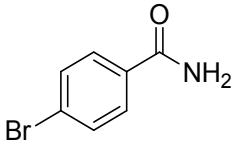
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.67 (s, 1H), 7.86-7.89 (m, 2H), 8.10-8.12 (m, 2H), 8.24 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ =124.8 (d, J_{CF3} = 272.1 Hz, CF_3), 126.2 (2CH), 129.3 (2CH), 132.1 (d, J = 31.5 Hz, C), 139.0 (C), 167.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 189 (62), 173 (100), 170 (15), 145 (94), 95 (13), 75 (13); **HRMS** (EI): Calc for $C_8H_6N_1O_1F_3$: 189.03960; found: 189.03907.

2-Bromobenzamide



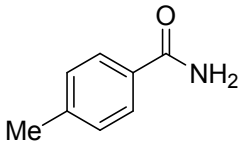
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 6.12-6.33 (m, 2H); 7.32-7.49 (m, 2H), 7.46-7.71 (m, 2H) **^{13}CNMR** (DMSO-d_6): δ = 119.6, 127.95, 129.02 131.12, 133.16, 139.77 (C), 169.55 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 199 (54), 185 (97), 183 (100), 157 (41), 155 (41), 76 (28). **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 199 (54), 185 (97), 183 (100), 157 (41), 155 (41), 76 (28); **HRMS** (EI): Calc for $C_7H_6N_1O_1Br_1$: 198.96273; found: 198.96251.

4-Bromobenzamide



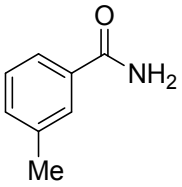
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.51 (s, 1H, NH_2), 7.68-7.73 (m, 2H), 7.83-7.88 (m, 2H), 8.10 (s, 1H, NH_2); **^{13}CNMR** (DMSO-d_6): δ = 125.9 (C), 130.5 (2CH), 132.2 (2CH), 134.3 (C), 167.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 199 (54), 185 (97), 183 (100), 157 (41), 155 (41), 76 (28).

4-Methylbenzamide



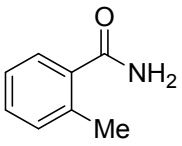
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 2.37 (s, 3H), 7.27 (d, *J* = 8.15 Hz, 2H), 7.34 (s, 1H), 7.81 (d, *J* = 8.15 Hz, 2H), 7.94 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 21.8 (CH_3), 128.4 (2CH), 129.6 (2CH), 132.3 (C), 141.9 (C), 168.7 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 135 (62), 119 (100), 91 (66), 89 (11), 65 (23), 63 (11); **HRMS** (EI): Calc for $C_8H_9N_1O_1$: 135.06787; found: 135.06777.

3-Methylbenzamide



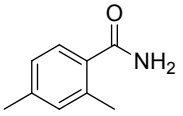
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 2.38 (s, 3H), 7.35-7.37 (m, 3H), 7.76-7.73 (m, 2H), 7.95 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 21.8 (CH_3), 125.4, 128.9, 132.6, 135.3 (CH), 138.2 (C), 168.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 135 (71), 119 (100), 91 (80), 89 (12), 65 (24), 63 (13); **HRMS** (EI): Calc for $C_8H_9N_1O_1$: 135.06787; found: 135.06771.

2-Methylbenzamide



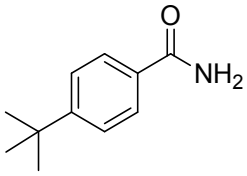
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 2.40 (s, 3H), 7.21-7.27 (m, 1H), 7.31-7.39 (m, 4H), 7.28 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 20.5 (CH_3), 126.4, 127.9, 130.1, 131.4 (CH), 136.1, 138.0 (C), 171.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 135 (71), 119 (100), 91 (80), 89 (12), 65 (24),

2,4-dimethylbenzamide



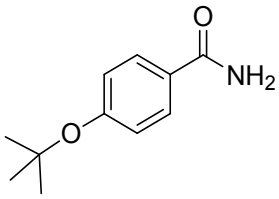
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 2,31, 2.37 (s, 3H, CH_3), 7.02-7.06 (m, 2H), 7.27-7.33 (m, 2H), 7.64 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 20.6, 21.7 (CH_3), 126.8, 128.2, 132.1 (2CH), 134.9, 136.3, 138.7 (C), 169.3 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 149 (75), 133 (100), 132 (32), 105 (50), 79 (16), 77 (29); **HRMS** (EI): Calc for $C_9H_{11}N_1O_1$: 149.08352; found: 149.08318.

4-(*tert*-Butyl)benzamide



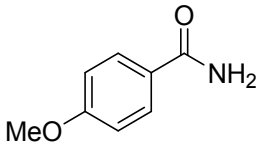
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 1.32 (s, 9H, CH_3), 7.32 (s, 1H), 7.48-7.51 (m, 2H), 7.83-7.86 (m, 2H), 7.94 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 31.9 ($3CH_3$), 35.5 (CCH_3), 125.9, 128.3 (CH), 132.5 (C), 154.9 (C), 168.7 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 177 (21), 162 (100), 144 (13), 134 (17), 91 (28); **HRMS** (EI): Calc for $C_{11}H_{15}N_1O_1$: 177.11482; found: 177.11504.

4-(*tert*-Butoxy)benzamide



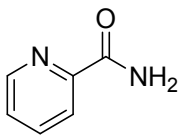
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 1.37 (s, 9H), 3.87 (s, 3H), 7.04 (dt, *J* = 8.39 Hz, 2H), 7.26 (s, 1H), 7.84 (dt, *J* = 8.39 Hz, 2H), 7.91 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 29.5 ($3CH_3$), 79.6 ($OC(CH_{33})$), 123.2 (2CH), 129. (C), 129.7 (2CH), 158.9 (C), 168.4 (CO).

4-Methoybenzamide



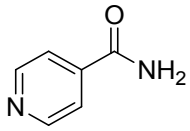
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 3.39 (s, 3H), 6.99 (m, 2H), 7.22 (s, 2H), 7.85-7.89 (m, 3H); **^{13}CNMR** (DMSO-d_6): δ = 56.2 (OCH_3), 114.3 (2CH), 127.4 (C), 130.2 (2CH), 162.5 (C), 168.3 (CO).

Picolinamide



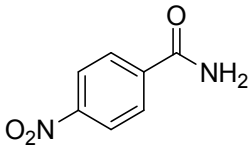
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.60-7.64 (m, 1H), 7.70 (s, 1H), 7.98-8.03 (m, 1H), 8.07 (s, 1H), 8.07 (m, 1H), 8.17 (s, 1H), 8.64-8.66 (m, 1H); **^{13}CNMR** (DMSO-d_6): δ =122.8 (CH), 127.4 (CH), 138.5 (CH), 149.4 (CH), 151.2 (C), 166.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 122 (34), 79 (100), 78 (34), 52 (32), 50 (13); **HRMS** (EI): Calc for $C_6H_6N_2O_1$: 122.04746; found: 122.04755.

Isonicotinamide



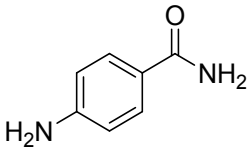
ethyl acetate/hexane (2:1); **^{1}H NMR** (δ = 7.83-7.86 (m, 3H), 8.79-8.20 (s, 3H); **^{13}CNMR** (DMSO-d_6): δ =123.6 (2CH), 139.2 (C), 151.4 (C), 167.1 (CO); **HRMS** (EI): Calc for $C_6H_6N_2O_1$: 122.04746; found: 122.04747

4-Nitrobenzamide



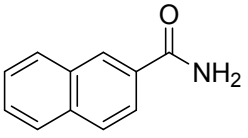
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 5.65 (s, 2H), 6.52-6.57 (m, 2H), 7.59-7.64 (m, 2H); **^{13}CNMR** (DMSO-d_6); δ = 112.91, 121.40, 129.57, 152.11 (C), 168.48 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 166 (75), 150 (100), 104 (29), 92 (24), 50 (20); **HRMS** (EI): Calc for $C_7H_6N_2O_3$: 166.03729; found: 166.03756.

4-Aminobenzamide



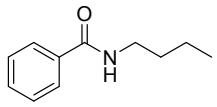
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 5.67 (s, 2H, NH_2), 6.57-6.66 (m, 2H), 6.99-7.12 (m, 1H), 7.65-7.75 (m, 3H); **^{13}CNMR** (DMSO-d_6); δ = 113.65, 121.92, 130.28, 152.77 (C), 169.48 (CO);**GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 136 (70), 120 (100), 92 (37), 65 (31); **HRMS** (ESI) $[M+Na]^+$: Calc for $C_7H_8N_2O$: 159.05288; found: 166.05305.

2-Naphthamide



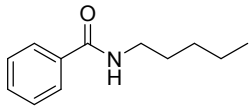
ethyl acetate/hexane (2:1); **^{1}H NMR** (300 MHz, DMSO-d_6): δ = 7.56-7.67 (m, 3H), 7.98-8.06 (m, 4H), 8.22 (1, 1H), 8.55 (s, 1H); **^{13}CNMR** (DMSO-d_6): δ = 125.3, 127.5, 128.5, 128.7, 129.8, 132, 133.1 135.1, 168.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%)[M^+] 171 (83), 155 (100), 127 (98), 75 (10).

***N*-Butylbenzamide**



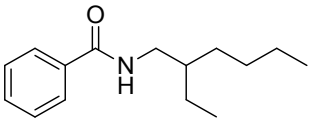
ethyl acetate/hexane (1:4); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 0.93 (t, *J* = 7.28 Hz, 3H), 1.38 (sext., 2H), 1.58 (pent., 2H), 3.41 (q, *J* = 7.13 Hz, 2H), 6.94 (s, 1H), 7.31-7.48 (m, 3H), 7.79-7.82 (m, 2H); **^{13}CNMR** ($CDCl_3$): δ = 13.7 (CH_3), 20.0 (CH_2), 31.5 (CH_2), 39.7 (CH_2), 126.9 (2CH), 128.3 (2CH), 131.1 (CH), 134.6 (C), 168.0 (CO); **GC-MS** (EI, 70 eV): *m/z* (%) [M^+] 177 (9), 135 (20), 134 (19), 105 (100), 77 (39), 51 (10).

***N*-Pentylbenzamide**



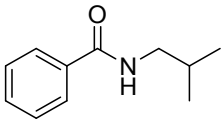
ethyl acetate/hexane (1:4); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 0.88 (t, *J* = 7.48 Hz, 3H), 1.29-1.35 (m, 4H), 1.52-1.63 (m, 2H), 3.37-3.44 (m, 2H), 6.49 (s, 1H), 7.32-7.48 (m, 3H), 7.73-7.78 (m, 2H); **^{13}CNMR** ($CDCl_3$): δ = 14.0 (CH_3), 22.4 (CH_2), 29.2 (CH_2), 29.4 (CH_2), 40.1 (CH_2), 126.9 (2CH), 128.5 (2CH), 131.3 (CH), 131.3 (C), 167.6 (CO); **GC-MS** (EI, 70 eV): *m/z* (%) [M^+] 191 (8), 135 (17), 134 (21), 105 (100), 77 (35), 51 (8).

***N*-(2-Ethylhexyl)benzamide**



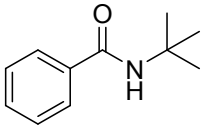
ethyl acetate/hexane (1:4); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 0.92-1.00 (m, 6H), 1.33-1.45 (m, 6H), 3.43-3.48 (m, 2H), 6.16 (s, 1H), 7.45-7.57 (m, 3H), 7.78-7.82 (m, 2H); **^{13}CNMR** ($CDCl_3$): δ = 10.9 (CH_3), 14.0 (CH_3), 23.0 (CH_2), 24.4 (CH_2), 28.9 (CH_2), 31.1 (CH_2), 39.5 (CH), 42.9 (CH_2), 126.8 (C), 128.6, 131.3 (CH), 167.3 (CO), **GC-MS** (EI, 70 eV): *m/z* (%) [M^+] 233 (5), 135 (18), 134 (37), 105 (100), 77 (35).

***N*-Isobutylbenzamide**



ethyl acetate/hexane (1:4); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 0.94 (s, 3H), 0.97 (s, 3H), 1.89 (hept., 1H), 3.26 (t, *J* = 6.78 Hz, 2H), 6.38 (s, 1H, NH), 7.37-7.49 (m, 3H), 7.74-7.79 (m, 2H); **^{13}CNMR** ($CDCl_3$): δ = 20.3 ($2CH_3$), 28.6 (CH), 47.4 (CH_2), 126.9 (2CH), 128.6 (2CH), 131.4 (C), 134.9 (C), 167.7 (CO); **GC-MS** (EI, 70 eV): *m/z* (%) [M^+] 177 (13), 105 (100), 77 (36), 51 (10).

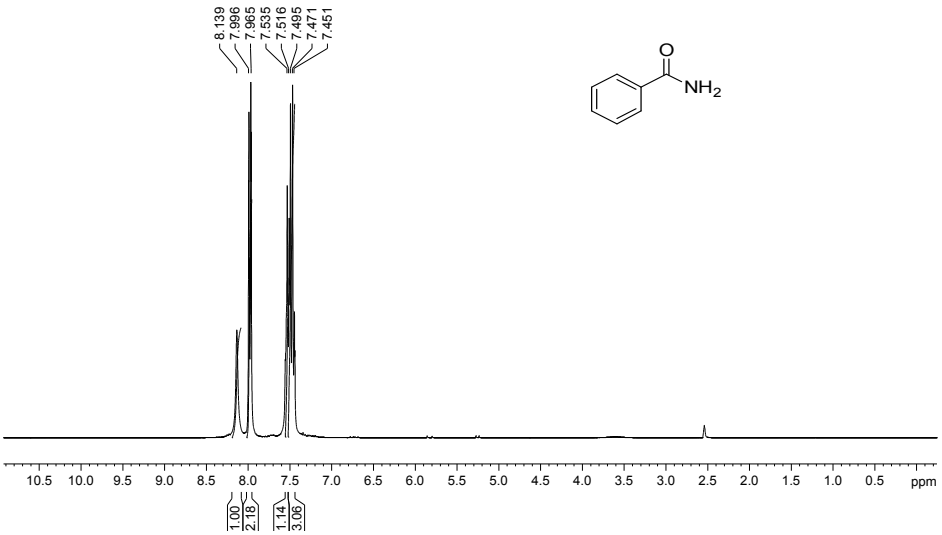
***N-tert*-Butylbenzamide**



ethyl acetate/hexane (1:4); **^{1}H NMR** (300 MHz, $CDCl_3$): δ = 1.46 (s, 9H), 5.98 (s, 1H), 7.35-7.49 (m, 3H), 7.68-7.75 (m, 2H); **^{13}CNMR** ($CDCl_3$): δ = 28.9 ($3CH_3$), 51.6 (C), 126.7 (2CH), 128.9 (2CH), 131.9 (C), 135.9 (C), 166.9 (CO); **GC-MS** (EI, 70 eV): *m/z* (%) [M^+] 177 (17), 162 (19), 122 (15), 105 (100), 77 (44).

[1] G. V. Baelen, B. U. W. Maes, *Tetrahedron*, **2008**, *64*, 5604-5619.

[1]HNMR

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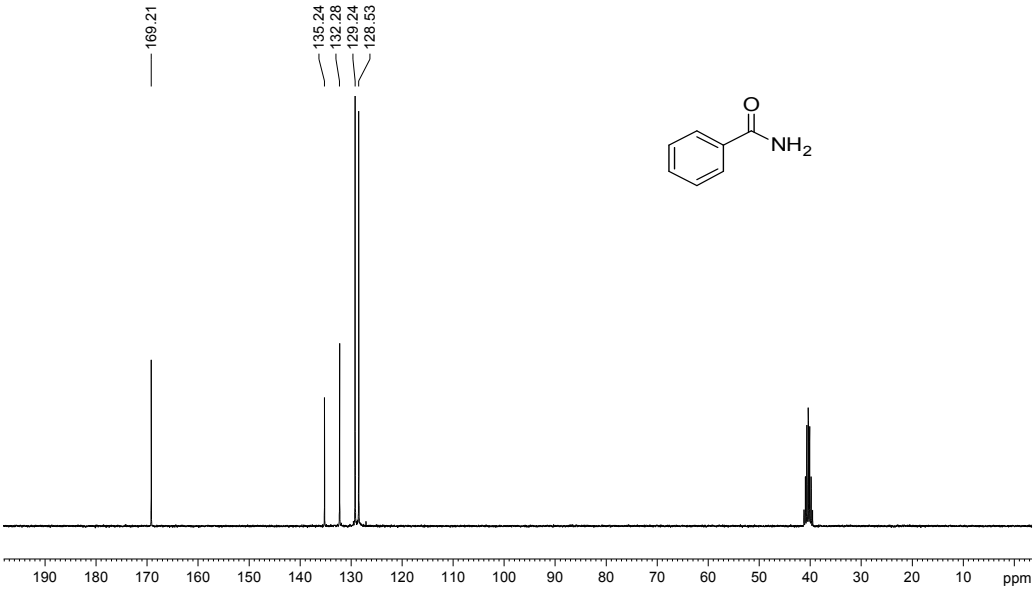
Time              10.17
INSTRUM       FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG            zg30
TD                65536
SOLVENT            DMSO
NS                    16
DS                     2
SWH            6103.516 Hz
FIDRES         0.093132 Hz
AQ             5.3687091 sec
RG               4.57143
DW                81.920 usec
DE                 6.50 usec
TE                296.6 K
D1             1.00000000 sec
TD0                   1

======== CHANNEL f1 ========
SFO1         300.2018539 MHz
NUC1                   1H
P1                 11.00 usec
PLW1         16.00000000 W

F2 - Processing parameters
SI                 65536
SF           300.1999859 MHz
WDW                   EM
SSB       0
LB                 0.30 Hz
GB        0
PC                 1.00
```

[13]CNMR




```
Current Data Parameters
NAME           SF-622 Bz
EXPNO                11
PROCNO                1

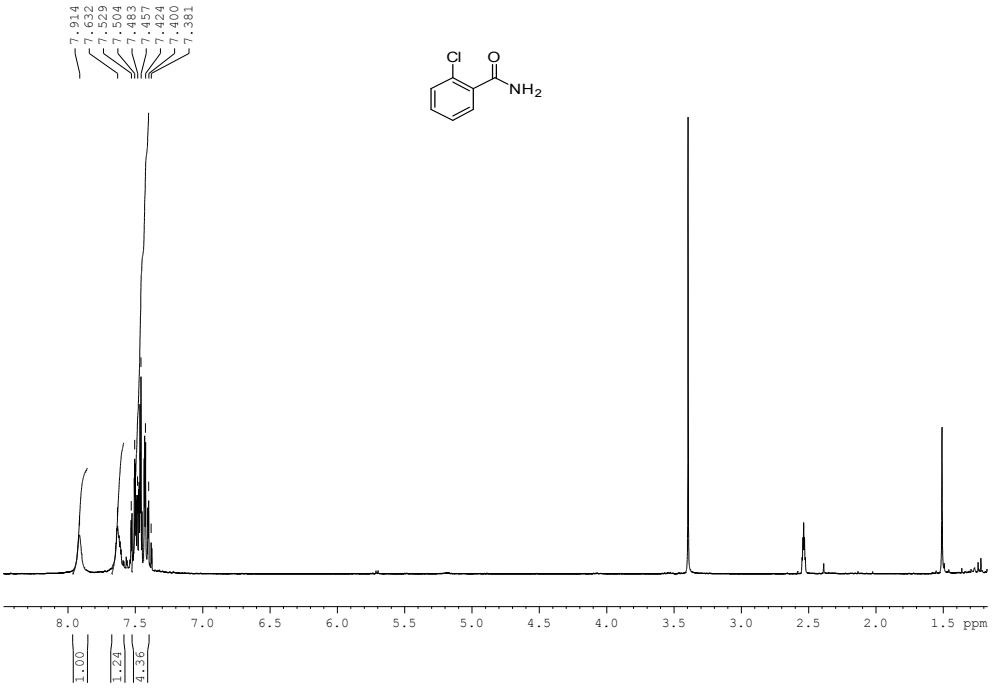
F2 - Acquisition Parameters
Date_          20140205
Time              10.20
INSTRUM       FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG          zgpg30
TD                65536
SOLVENT            DMSO
NS                   256
DS                     4
SWH           24414.063 Hz
FIDRES         0.372529 Hz
AQ             1.3421773 sec
RG               501.187
DW                20.480 usec
DE                 6.50 usec
TE                296.8 K
D1             2.00000000 sec
D11            0.03000000 sec
D31            0.00001140 sec
D40            0.02898005 sec
L4                    40
L5                    57
P32                90.00 usec
TD0                   1

======== CHANNEL f1 ========
SFO1          75.4928982 MHz
NUC1                  13C
P1                 11.40 usec
PLW1         30.00000000 W

======== CHANNEL f2 ========
SFO2         300.2012008 MHz
NUC2                  1H
CPDPRG[2          waltz16
PCPD2              90.00 usec
PLW2         16.00000000 W
PLW12         0.23901001 W
PLW13         0.19360000 W

F2 - Processing parameters
SI                 32768
SF            75.4853068 MHz
WDW                   EM
SSB       0
LB                 1.00 Hz
GB        0
PC                 1.40
```

^{1}HNMR



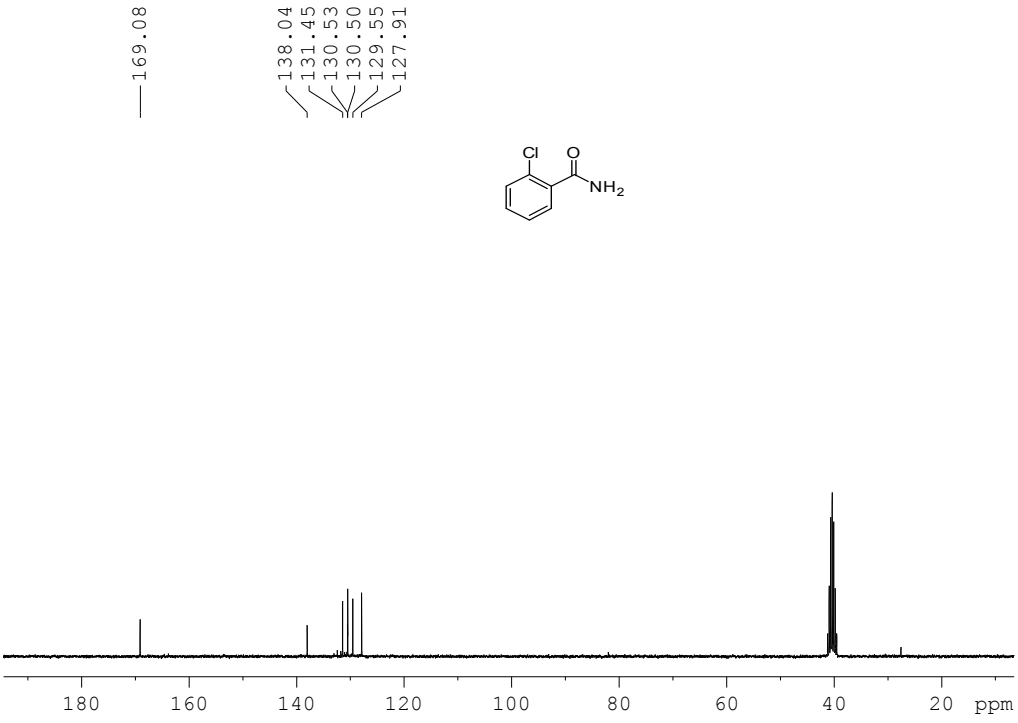

```
Current Data Parameters
NAME            SF-622 A
EXPNO                 10
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140117
Time                7.29
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG             zg30
TD                 32768
SOLVENT             DMSO
NS                    32
DS                     4
SWH             6172.839 Hz
FIDRES          0.188380 Hz
AQ              2.6542079 sec
RG                   256
DW                81.000 usec
DE                 6.00 usec
TE                295.7 K
D1           1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                 11.00 usec
PL1       0 dB
PL1W        12.28312492 W
SFO1        300.1318534 MHz

F2 - Processing parameters
SI                 32768
SF          300.1299904 MHz
WDW                   EM
SSB       0
LB                 0.10 Hz
GB        0
PC                 1.00
```

^{13}CNMR

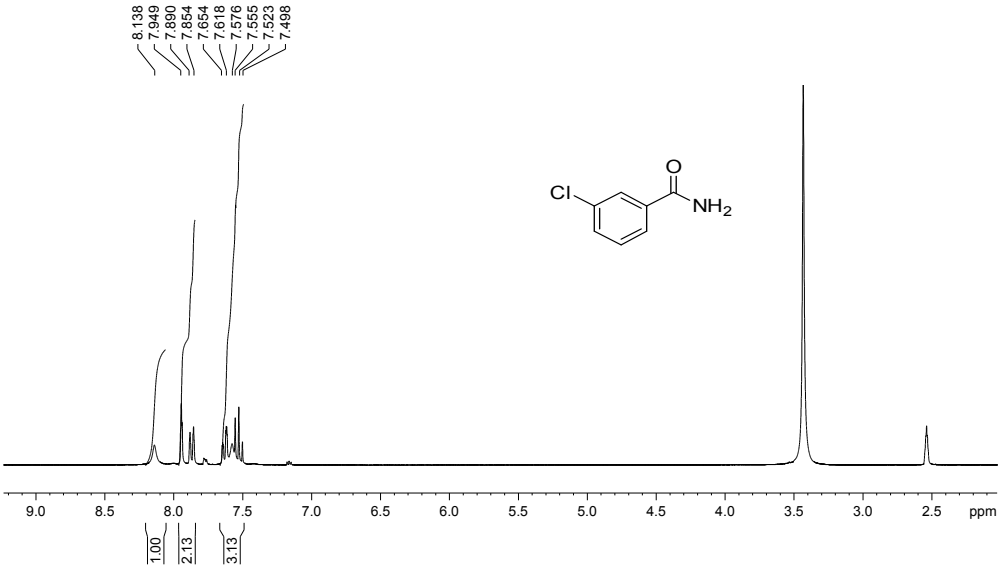



```
Current Data Parameters
NAME            SF-622 A
EXPNO                 11
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140117
Time                7.44
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG          zgpg30
TD                 32768
SOLVENT             DMSO
NS                   256
DS                     4
SWH            21097.047 Hz
FIDRES          0.643831 Hz
AQ              0.7766016 sec
RG                 32768
DW                23.700 usec
DE                 6.00 usec
TE                296.3 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    1
SFO1          75.4771825 MHz
NUC1                  13C
P1                 9.60 usec
PLW1         -1.00000000 W
SFO2         300.1312005 MHz
NUC2                  1H
CPDPRG[2          waltz16
PCPD2            100.00 usec
PLW2         -1.00000000 W
PLW12        -1.00000000 W
PLW13        -1.00000000 W

F2 - Processing parameters
SI                 32768
SF          75.4677157 MHz
WDW                   EM
SSB       0
LB                 1.00 Hz
GB        0
PC                 1.40
```

^{1}HNMR



BRUKER

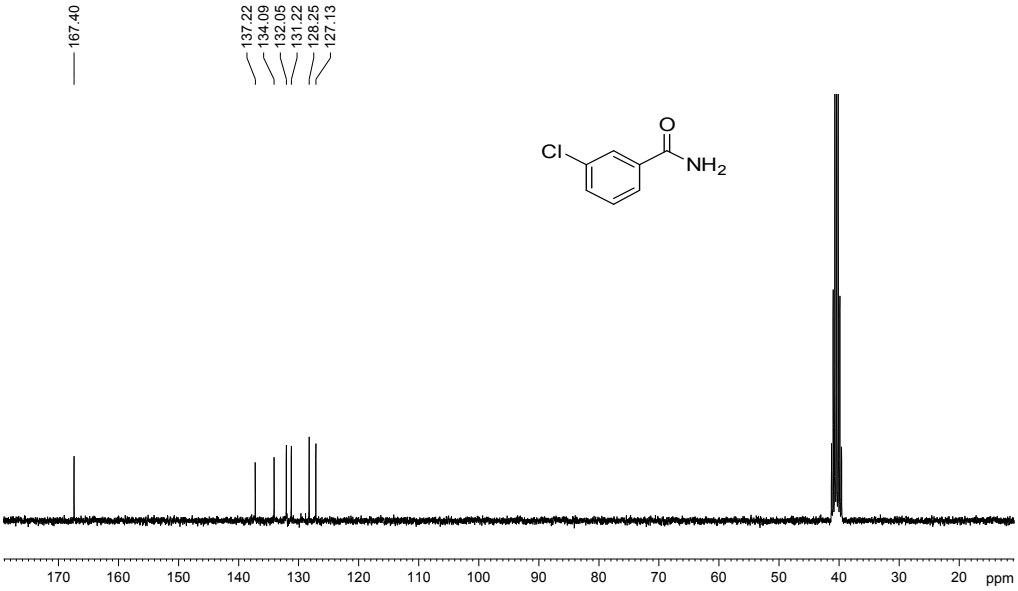
```
Current Data Parameters
NAME         SF-623 m-Cl
EXPNO                 10
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140205
Time              12.46
INSTRUM       FOURIER300
PROBHD   5 mm DUL 13C-1
PULPROG            zg30
TD                65536
SOLVENT            DMSO
NS                    16
DS                     2
SWH            6103.516 Hz
FIDRES         0.093132 Hz
AQ             5.3687091 sec
RG                31.623
DW               81.920 usec
DE                6.50 usec
TE                296.5 K
D1            1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
SFO1         300.2018539 MHz
NUC1                   1H
P1                 11.00 usec
PLW1         16.00000000 W

F2 - Processing parameters
SI                 65536
SF           300.1999863 MHz
WDW                   EM
SSB       0
LB                 0.30 Hz
GB        0
PC                 1.00
```

^{13}CNMR



BRUKER

```
Current Data Parameters
NAME         SF-623 m-Cl
EXPNO                 11
PROCNO                 1

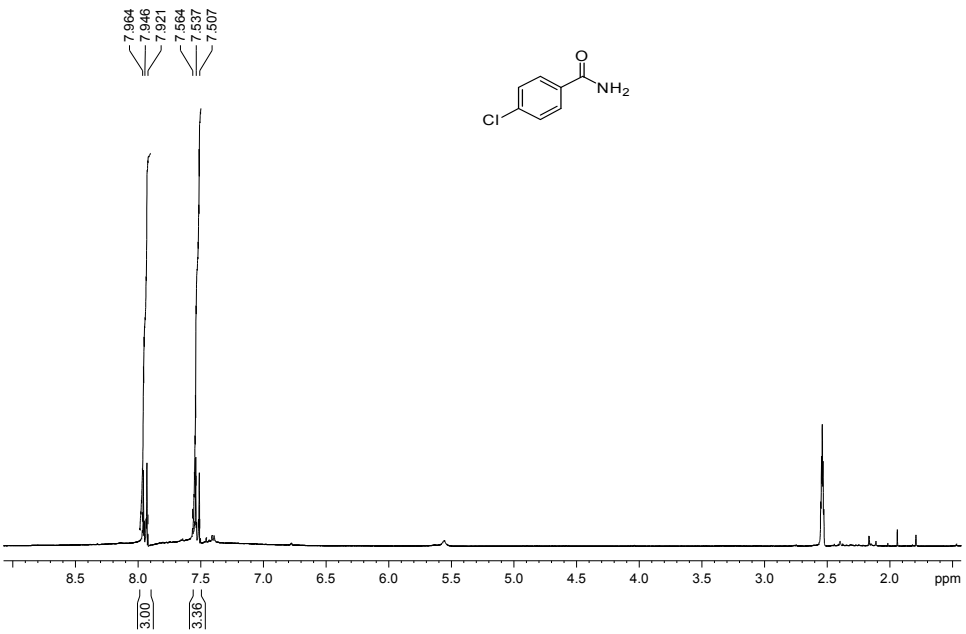
F2 - Acquisition Parameters
Date_           20140205
Time              12.48
INSTRUM       FOURIER300
PROBHD   5 mm DUL 13C-1
PULPROG          zgpg30
TD                65536
SOLVENT            DMSO
NS                   350
DS                     4
SWH           24414.063 Hz
FIDRES         0.372529 Hz
AQ             1.3421773 sec
RG                501.187
DW               20.480 usec
DE                6.50 usec
TE                296.6 K
D1            2.00000000 sec
D11           0.03000000 sec
D31           0.00001140 sec
D40           0.02898005 sec
L4                    40
L5                    57
P32              90.00 usec
TD0                    1

======== CHANNEL f1 ========
SFO1         75.4928982 MHz
NUC1                  13C
P1                 11.40 usec
PLW1         30.00000000 W

======== CHANNEL f2 ========
SFO2        300.2012008 MHz
NUC2                  1H
CPDPRG[2          waltz16
PCPD2              90.00 usec
PLW2         16.00000000 W
PLW12         0.23901001 W
PLW13         0.19360000 W

F2 - Processing parameters
SI                 32768
SF           75.4853123 MHz
WDW                   EM
SSB       0
LB                 1.00 Hz
GB        0
PC                 1.40
```

^{1}HNMR



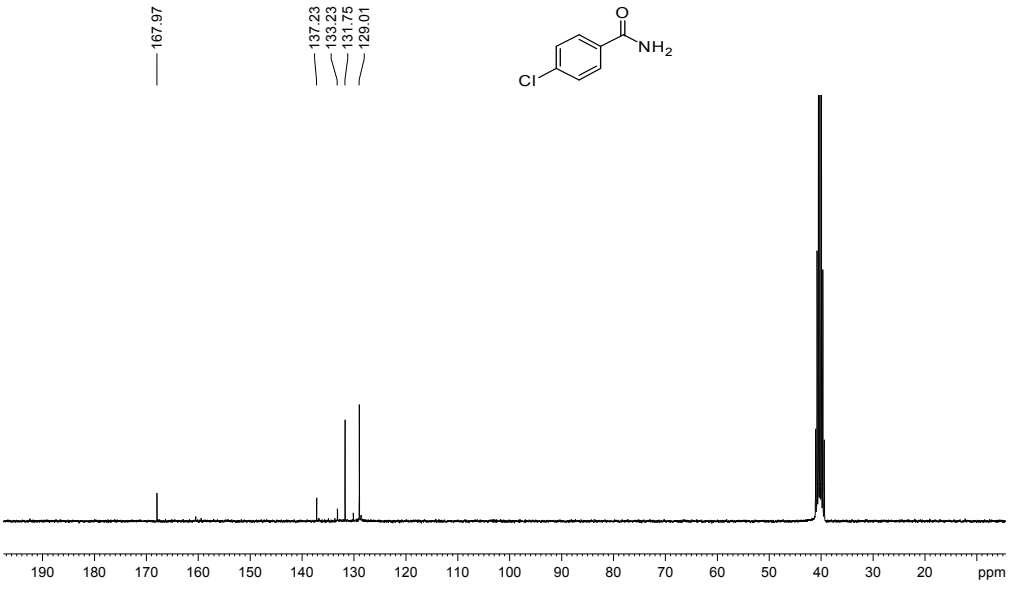

```
Current Data Parameters
NAME                  SF-623-A
EXPNO                       10
PROCNO                       1

F2 - Acquisition Parameters
Date_               20140124
Time                    0.18
INSTRUM                AV300
PROBHD   5 mm PABBO BB-
PULPROG                 zg30
TD                     32768
SOLVENT                 DMSO
NS                        32
DS                         4
SWH                 6172.839 Hz
FIDRES              0.188380 Hz
AQ                  2.6542079 sec
RG                      322.5
DW                     81.000 usec
DE                      6.00 usec
TE                     296.6 K
D1                  1.00000000 sec
TD0                         1

======== CHANNEL f1 ========
NUC1                       1H
P1                      11.00 usec
PL1        0 dB
PL1W               12.28312492 W
SFO1               300.1318534 MHz

F2 - Processing parameters
SI                     32768
SF                 300.1299894 MHz
WDW                       EM
SSB        0
LB                      0.10 Hz
GB         0
PC                      1.00
```

^{13}CNMR

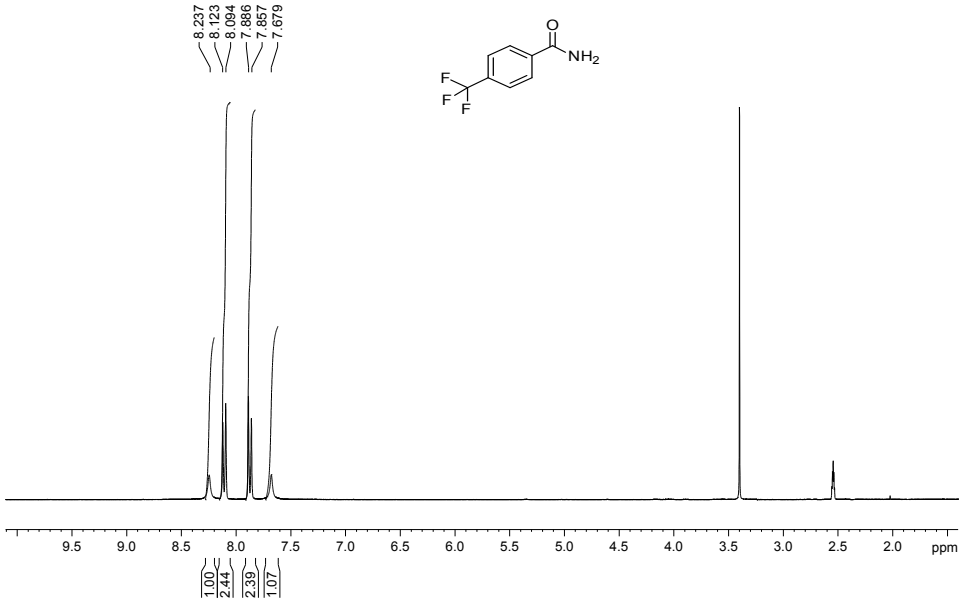



```
Current Data Parameters
NAME          SF-623A -13C
EXPNO                   10
PROCNO                   1

F2 - Acquisition Parameters
Date_               20140128
Time                   10.30
INSTRUM                AV300
PROBHD   5 mm PABBO BB-
PULPROG              zgpg30
TD                     32768
SOLVENT                 DMSO
NS                      5000
DS                         4
SWH                21097.047 Hz
FIDRES              0.643831 Hz
AQ                  0.7766016 sec
RG                      32768
DW                     23.700 usec
DE                      6.00 usec
TE                     295.4 K
D1                  2.00000000 sec
d11                 0.03000000 sec
DELTA               1.89999998 sec
TD0                         1
SFO1               75.4771825 MHz
NUC1                      13C
P1                      9.60 usec
PLW1               -1.00000000 W
SFO2               300.1312005 MHz
NUC2                       1H
CPDPRG[2                waltz16
PCPD2                 100.00 usec
PLW2               -1.00000000 W
PLW12              -1.00000000 W
PLW13              -1.00000000 W

F2 - Processing parameters
SI                     32768
SF                 75.4677278 MHz
WDW                       EM
SSB        0
LB                      1.00 Hz
GB         0
PC                      1.40
```

^{1}HNMR



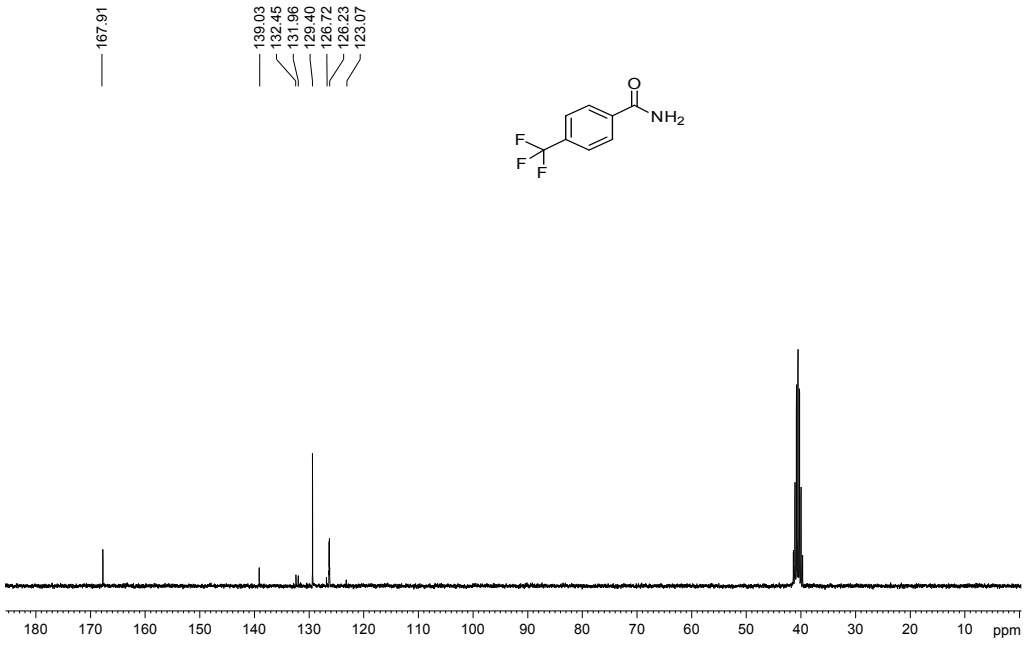

```
Current Data Parameters
NAME            SF-622 I
EXPNO                 13
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140115
Time               21.57
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG             zg30
TD                 32768
SOLVENT             DMSO
NS                    32
DS                     4
SWH             6172.839 Hz
FIDRES          0.188380 Hz
AQ             2.6542079 sec
RG                 322.5
DW                81.000 usec
DE                 6.00 usec
TE                295.2 K
D1            1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                 11.00 usec
PL1       0 dB
PL1W        12.28312492 W
SFO1        300.1318534 MHz

F2 - Processing parameters
SI                 32768
SF          300.1299874 MHz
WDW                   EM
SSB       0
LB                 0.10 Hz
GB        0
PC                 1.00
```

^{13}CNMR

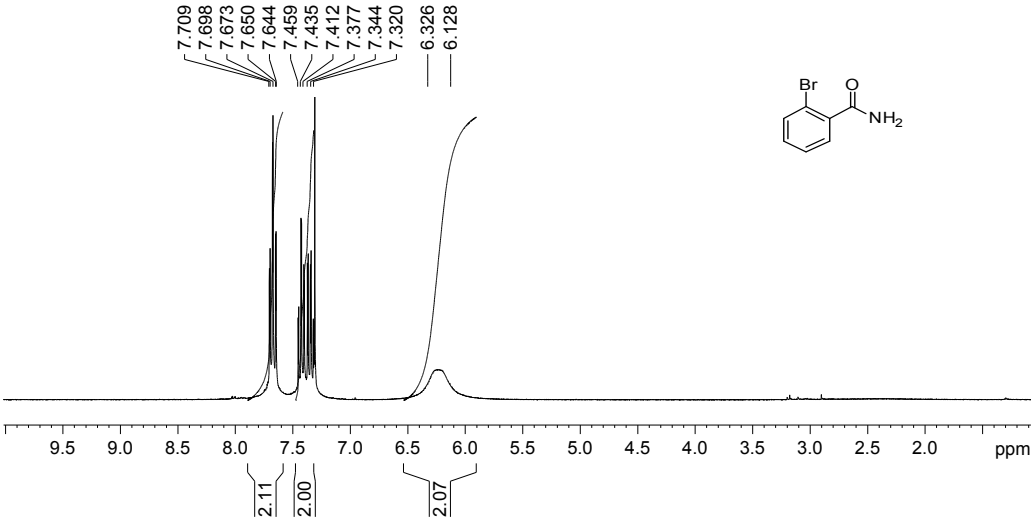



```
Current Data Parameters
NAME            SF-622 I
EXPNO                 10
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140115
Time               21.39
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG          zgpg30
TD                 32768
SOLVENT             DMSO
NS                   256
DS                     4
SWH            21097.047 Hz
FIDRES          0.643831 Hz
AQ             0.7766016 sec
RG                 32768
DW                23.700 usec
DE                 6.00 usec
TE                295.7 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                    1
SFO1          75.4771825 MHz
NUC1                 13C
P1                 9.60 usec
PLW1        -1.00000000 W
SFO2         300.1312005 MHz
NUC2                  1H
CPDPRG[2         waltz16
PCPD2             100.00 usec
PLW2        -1.00000000 W
PLW12       -1.00000000 W
PLW13       -1.00000000 W

F2 - Processing parameters
SI                 32768
SF          75.4677080 MHz
WDW                   EM
SSB       0
LB                 1.00 Hz
GB        0
PC                 1.40
```

^{1}HNMR



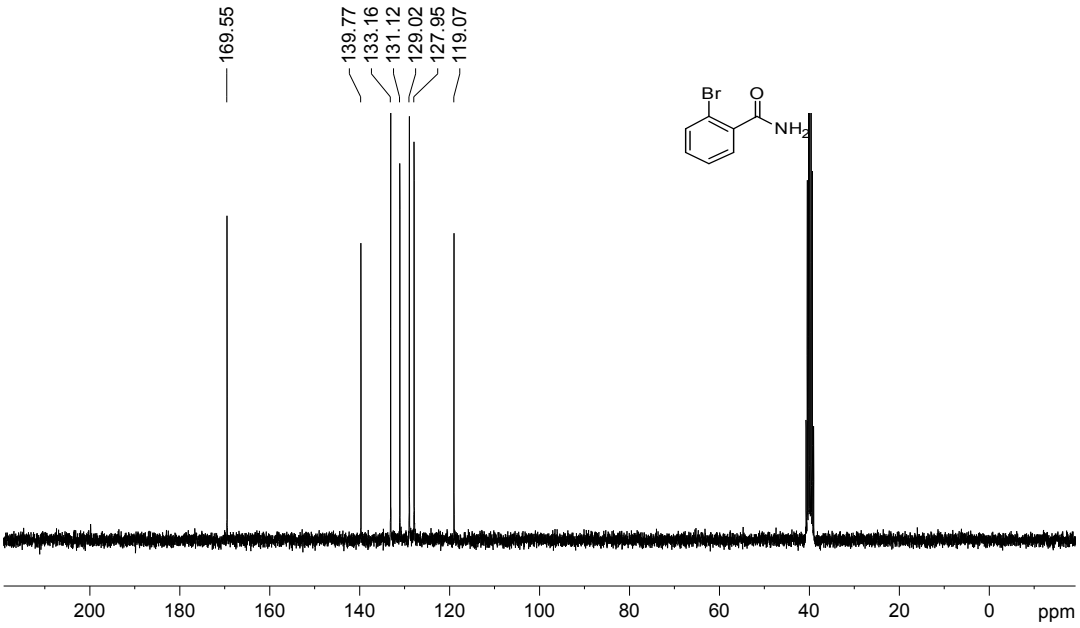

```
Current Data Parameters
NAME                  SF 636
EXPNO                     10
PROCNO                     1

F2 - Acquisition Parameters
Date_              20140306
Time                  12.53
INSTRUM               AV300
PROBHD    5 mm PABBO BB-
PULPROG                zg30
TD                    32768
SOLVENT               CDCl3
NS                       32
DS                        4
SWH                6172.839 Hz
FIDRES            0.188380 Hz
AQ                2.6542079 sec
RG                    322.5
DW                   81.000 usec
DE                    6.00 usec
TE                   295.4 K
D1                1.00000000 sec
TD0                       1

======== CHANNEL f1 ========
NUC1                     1H
P1                   11.00 usec
PL1        0 dB
PL1W          12.28312492 W
SFO1          300.1318534 MHz

F2 - Processing parameters
SI                    32768
SF              300.1300000 MHz
WDW                      EM
SSB       0
LB                    0.10 Hz
GB        0
PC                    1.00
```

^{13}CNMR




```
Current Data Parameters
NAME               SF 636 A
EXPNO                    10
PROCNO                    1

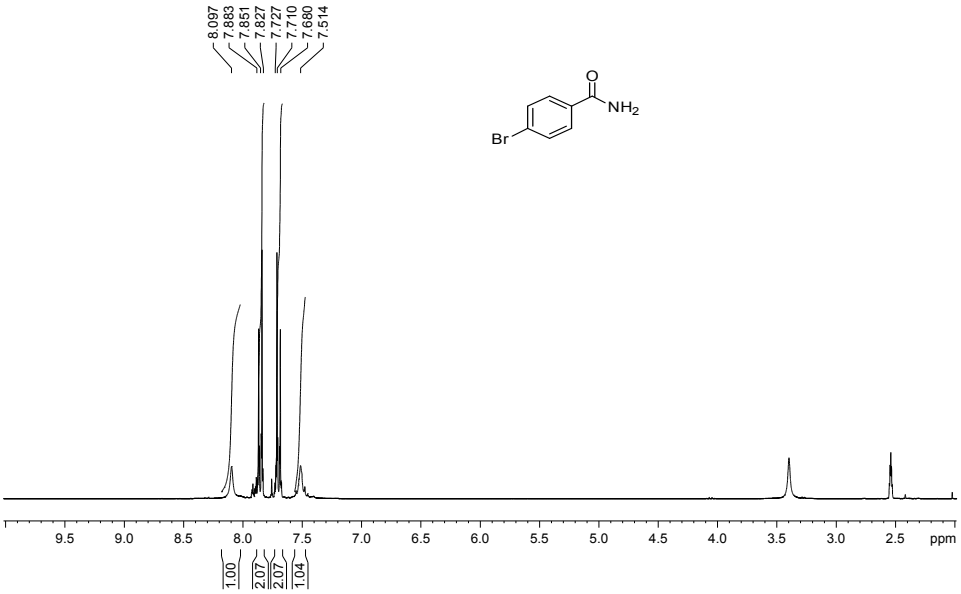
F2 - Acquisition Parameters
Date_              20140307
Time                  11.36
INSTRUM       FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG             zgpg30
TD                    65536
SOLVENT                DMSO
NS                      256
DS                        4
SWH               24414.063 Hz
FIDRES            0.372529 Hz
AQ                1.3421773 sec
RG                   501.187
DW                   20.480 usec
DE                    6.50 usec
TE                   335.6 K
D1                2.00000000 sec
D11               0.03000000 sec
D31               0.00001140 sec
D40               0.02898005 sec
L4                       40
L5                       57
P32                  90.00 usec
TD0                       1

======== CHANNEL f1 ========
SFO1             75.4928982 MHz
NUC1                     13C
P1                   11.40 usec
PLW1          30.00000000 W

======== CHANNEL f2 ========
SFO2            300.2012008 MHz
NUC2                     1H
CPDPRG[2             waltz16
PCPD2                90.00 usec
PLW2          16.00000000 W
PLW12          0.23901001 W
PLW13          0.19360000 W

F2 - Processing parameters
SI                    32768
SF               75.4853500 MHz
WDW                      EM
SSB       0
LB                    1.00 Hz
GB        0
PC                    1.40
```

^{1}HNMR



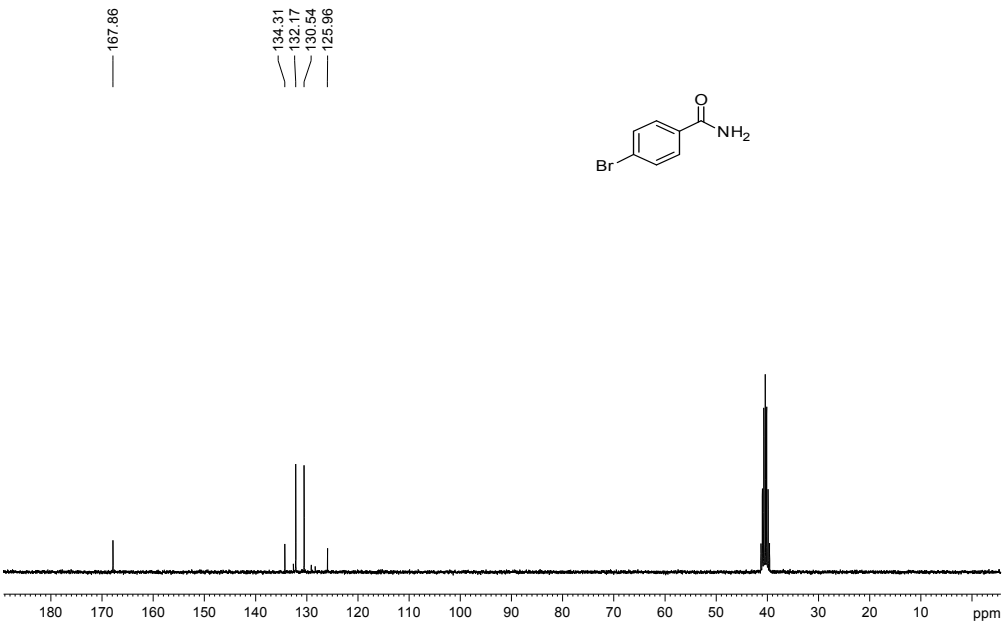

```
Current Data Parameters
NAME                  SF-623 W2
EXPNO                        10
PROCNO                        1

F2 - Acquisition Parameters
Date_                 20140131
Time                      6.47
INSTRUM                  AV300
PROBHD    5 mm PABBO BB-
PULPROG                   zg30
TD                       32768
SOLVENT                    DMSO
NS                           32
DS                            4
SWH                   6172.839 Hz
FIDRES                0.188380 Hz
AQ                    2.6542079 sec
RG                        322.5
DW                       81.000 usec
DE                        6.00 usec
TE                       294.0 K
D1                    1.00000000 sec
TD0                           1

======== CHANNEL f1 ========
NUC1                         1H
P1                       11.00 usec
PL1         0 dB
PL1W             12.28312492 W
SFO1              300.1318534 MHz

F2 - Processing parameters
SI                       32768
SF                300.1299892 MHz
WDW                         EM
SSB         0
LB                        0.10 Hz
GB          0
PC                        1.00
```

^{13}CNMR

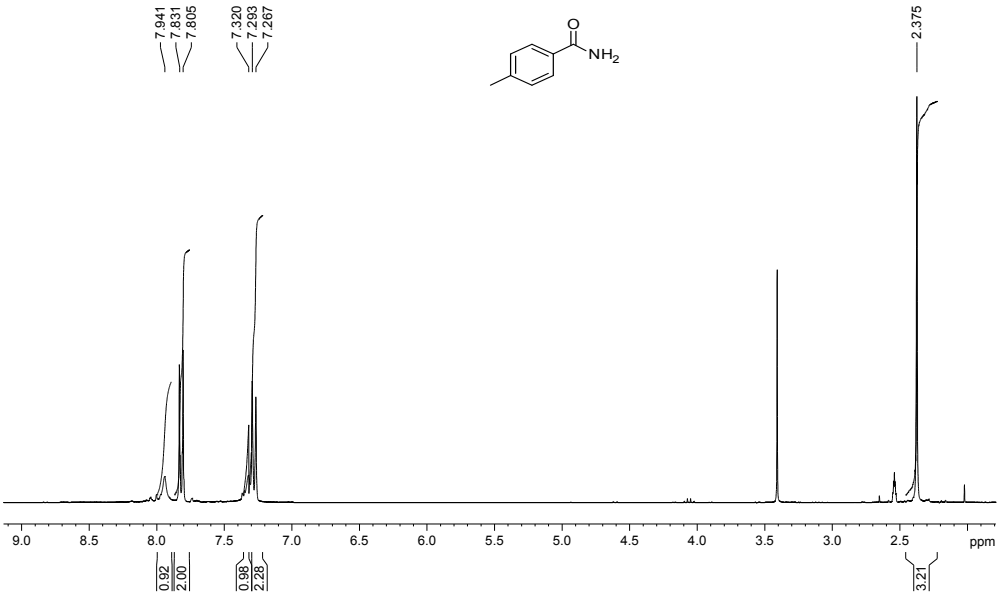



```
Current Data Parameters
NAME                  SF-623 W2
EXPNO                        11
PROCNO                        1

F2 - Acquisition Parameters
Date_                 20140131
Time                      7.00
INSTRUM                  AV300
PROBHD    5 mm PABBO BB-
PULPROG                 zgpg30
TD                       32768
SOLVENT                    DMSO
NS                          256
DS                            4
SWH                  21097.047 Hz
FIDRES                0.643831 Hz
AQ                    0.7766016 sec
RG                        32768
DW                       23.700 usec
DE                        6.00 usec
TE                       294.5 K
D1                    2.00000000 sec
d11                   0.03000000 sec
DELTA                 1.89999998 sec
TD0                           1
SFO1                 75.4771825 MHz
NUC1                         13C
P1                        9.60 usec
PLW1                 -1.00000000 W
SFO2                300.1312005 MHz
NUC2                         1H
CPDPRG[2                waltz16
PCPD2                   100.00 usec
PLW2                 -1.00000000 W
PLW12                -1.00000000 W
PLW13                -1.00000000 W

F2 - Processing parameters
SI                       32768
SF                 75.4677133 MHz
WDW                         EM
SSB         0
LB                        1.00 Hz
GB          0
PC                        1.40
```

^{1}HNMR



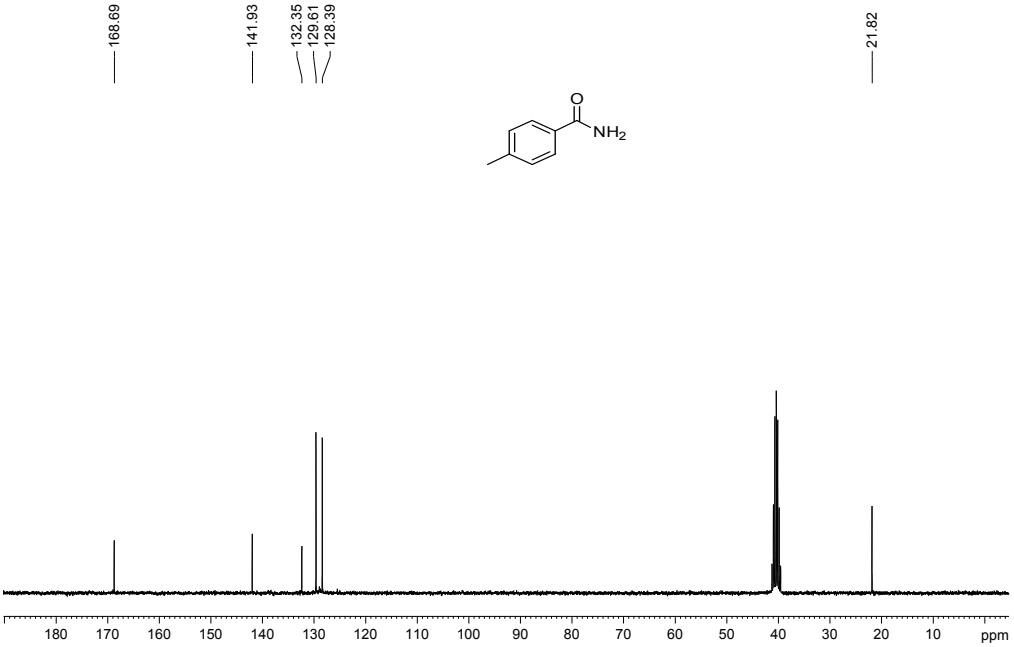

```
Current Data Parameters
NAME            SF-622 B2
EXPNO                  12
PROCNO                  1

F2 - Acquisition Parameters
Date_            20140115
Time                20.42
INSTRUM             AV300
PROBHD   5 mm PABBO BB-
PULPROG              zg30
TD                  32768
SOLVENT              DMSO
NS                      32
DS                       4
SWH              6172.839 Hz
FIDRES           0.188380 Hz
AQ               2.6542079 sec
RG                     128
DW                81.000 usec
DE                 6.00 usec
TE                 295.2 K
D1            1.00000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                   1H
P1                 11.00 usec
PL1       0 dB
PL1W         12.28312492 W
SFO1         300.1318534 MHz

F2 - Processing parameters
SI                  32768
SF           300.1299890 MHz
WDW                    EM
SSB       0
LB                  0.10 Hz
GB        0
PC                  1.00
```

^{13}CNMR

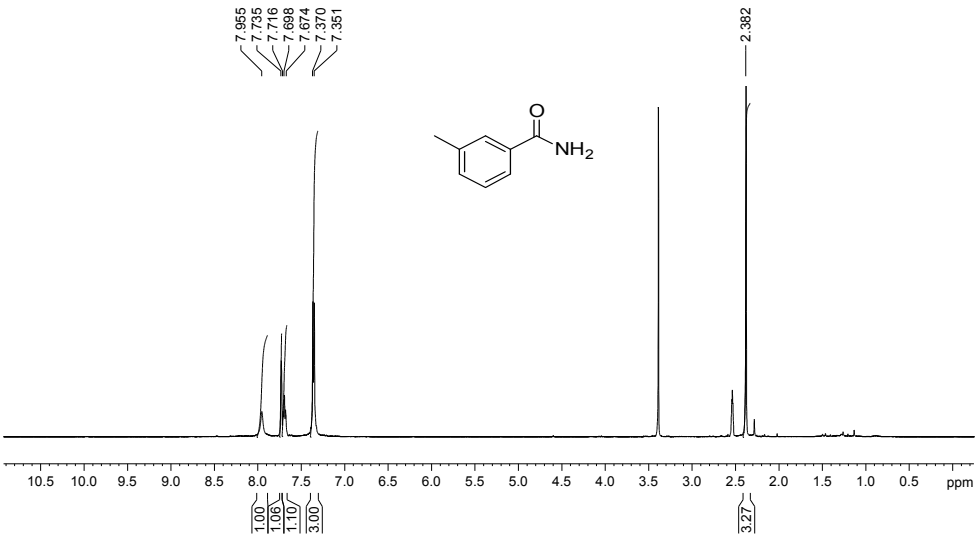



```
Current Data Parameters
NAME            SF-622 B2
EXPNO                  10
PROCNO                  1

F2 - Acquisition Parameters
Date_            20140115
Time                20.31
INSTRUM             AV300
PROBHD   5 mm PABBO BB-
PULPROG            zgpg30
TD                  32768
SOLVENT              DMSO
NS                     256
DS                       4
SWH             21097.047 Hz
FIDRES           0.643831 Hz
AQ               0.7766016 sec
RG                  32768
DW                23.700 usec
DE                 6.00 usec
TE                 295.7 K
D1            2.00000000 sec
d11           0.03000000 sec
DELTA         1.89999998 sec
TD0                     1
SFO1         75.4771825 MHz
NUC1                  13C
P1                  9.60 usec
PLW1         -1.00000000 W
SFO2         300.1312005 MHz
NUC2                   1H
CPDPRG[2          waltz16
PCPD2            100.00 usec
PLW2         -1.00000000 W
PLW12        -1.00000000 W
PLW13        -1.00000000 W

F2 - Processing parameters
SI                  32768
SF           75.4677166 MHz
WDW                    EM
SSB       0
LB                  1.00 Hz
GB        0
PC                  1.40
```

^{1}HNMR



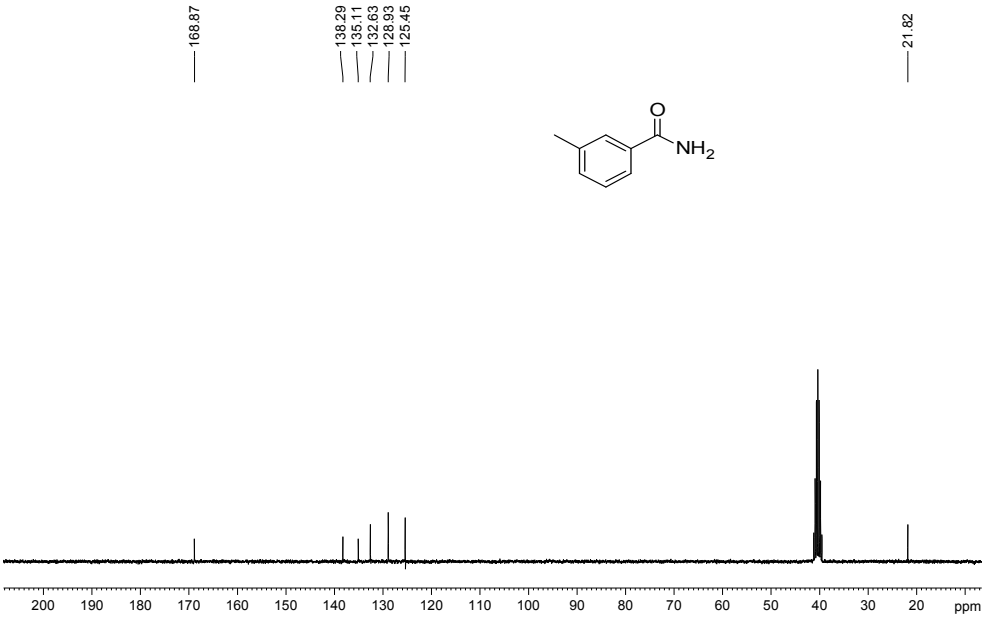

```
Current Data Parameters
NAME                 SF-622 C2
EXPNO                       10
PROCNO                       1

F2 - Acquisition Parameters
Date_               20140115
Time                   20.56
INSTRUM                AV300
PROBHD   5 mm PABBO BB-
PULPROG                 zg30
TD                     32768
SOLVENT                DMSO
NS                        32
DS                         4
SWH                 6172.839 Hz
FIDRES              0.188380 Hz
AQ                  2.6542079 sec
RG                      322.5
DW                     81.000 usec
DE                      6.00 usec
TE                     295.2 K
D1                  1.00000000 sec
TD0                          1

======== CHANNEL f1 ========
NUC1                        1H
P1                      11.00 usec
PL1          0 dB
PL1W               12.28312492 W
SFO1               300.1318534 MHz

F2 - Processing parameters
SI                       32768
SF                 300.1299896 MHz
WDW                         EM
SSB          0
LB                      0.10 Hz
GB           0
PC                      1.00
```

^{13}CNMR

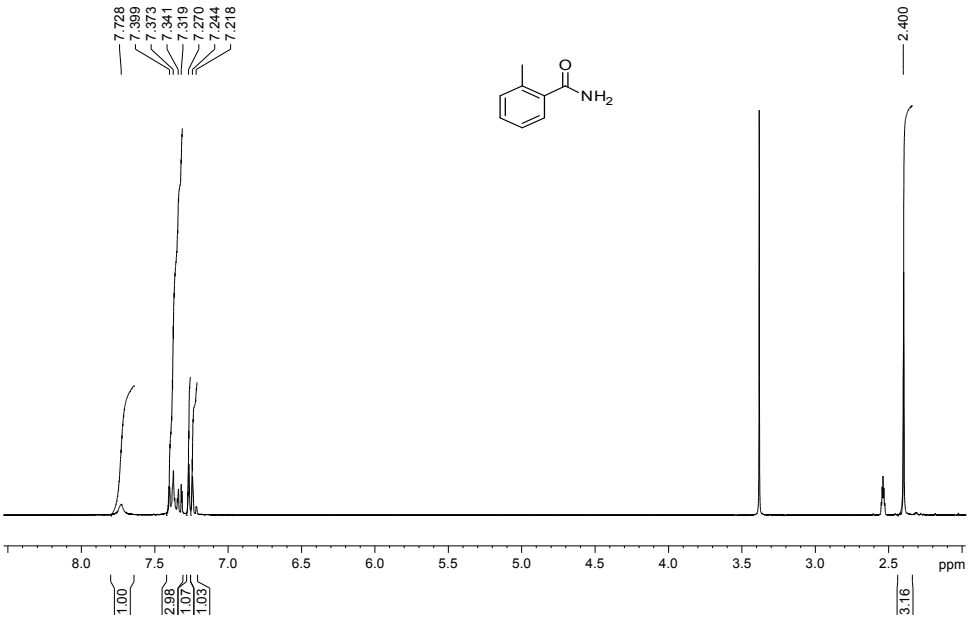



```
Current Data Parameters
NAME                 SF-622 C2
EXPNO                       11
PROCNO                       1

F2 - Acquisition Parameters
Date_               20140115
Time                   21.10
INSTRUM                AV300
PROBHD   5 mm PABBO BB-
PULPROG             zgpg30
TD                     32768
SOLVENT                DMSO
NS                       256
DS                         4
SWH                21097.047 Hz
FIDRES              0.643831 Hz
AQ                  0.7766016 sec
RG                      32768
DW                     23.700 usec
DE                      6.00 usec
TE                     295.7 K
D1                  2.00000000 sec
d11                 0.03000000 sec
DELTA               1.89999998 sec
TD0                          1
SFO1               75.4771825 MHz
NUC1                        13C
P1                       9.60 usec
PLW1               -1.00000000 W
SFO2              300.1312005 MHz
NUC2                        1H
CPDPRG[2                waltz16
PCPD2                  100.00 usec
PLW2               -1.00000000 W
PLW12              -1.00000000 W
PLW13              -1.00000000 W

F2 - Processing parameters
SI                       32768
SF                 75.4677177 MHz
WDW                         EM
SSB          0
LB                      1.00 Hz
GB           0
PC                      1.40
```

^{1}HNMR



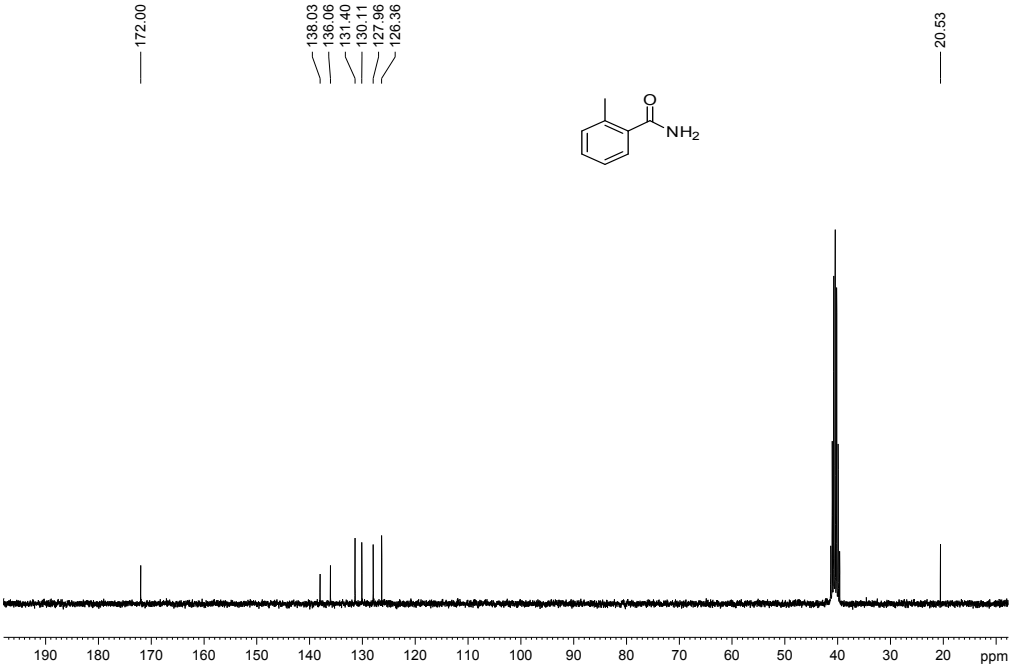

```
Current Data Parameters
NAME            SF-522 D2
EXPNO                  10
PROCNO                  1

F2 - Acquisition Parameters
Date_           20140117
Time               11.42
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG             zg30
TD                 32768
SOLVENT             DMSO
NS                    32
DS                     4
SWH             6172.839 Hz
FIDRES          0.188380 Hz
AQ              2.6542079 sec
RG                 322.5
DW                81.000 usec
DE                 6.00 usec
TE                295.6 K
D1             1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                 11.00 usec
PL1       0 dB
PL1W         12.28312492 W
SFO1        300.1318534 MHz

F2 - Processing parameters
SI                 32768
SF          300.1299896 MHz
WDW                   EM
SSB       0
LB                 0.10 Hz
GB        0
PC                 1.00
```

^{13}CNMR

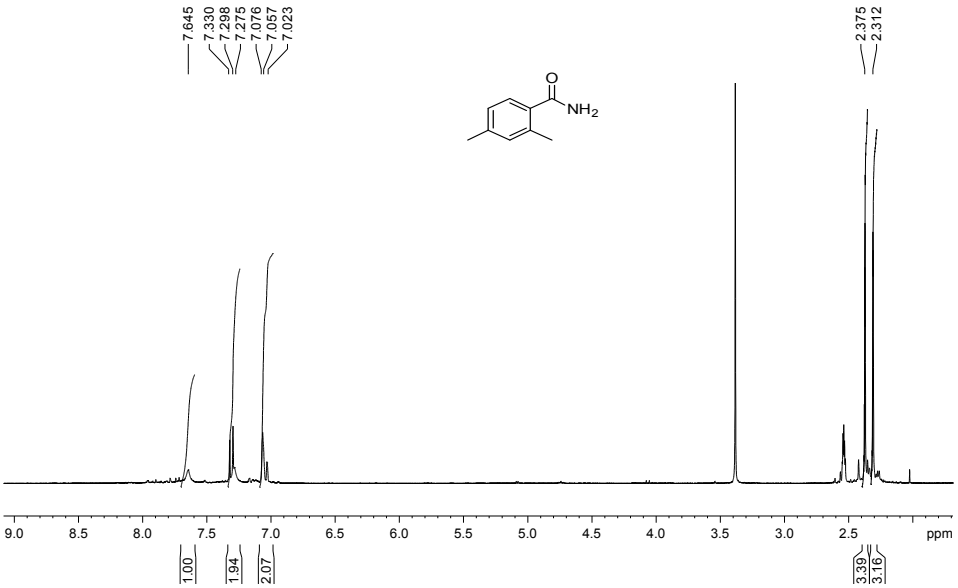



```
NAME            SF-522 D2
EXPNO                  11
PROCNO                  1

F2 - Acquisition Parameters
Date_           20140117
Time               11.55
INSTRUM            AV300
PROBHD   5 mm PABBO BB-
PULPROG          zgpg30
TD                 32768
SOLVENT             DMSO
NS                   256
DS                     4
SWH            21097.047 Hz
FIDRES          0.643831 Hz
AQ              0.7766016 sec
RG                 32768
DW                23.700 usec
DE                 6.00 usec
TE                296.1 K
D1             2.00000000 sec
d11            0.03000000 sec
DELTA          1.89999998 sec
TD0                    1
SFO1          75.4771825 MHz
NUC1                  13C
P1                 9.60 usec
PLW1          -1.00000000 W
SFO2         300.1312005 MHz
NUC2                  1H
CPDPRG[2          waltz16
PCPD2            100.00 usec
PLW2          -1.00000000 W
PLW12         -1.00000000 W
PLW13         -1.00000000 W

F2 - Processing parameters
SI                 32768
SF          75.4677113 MHz
WDW                   EM
SSB       0
LB                 1.00 Hz
GB        0
PC                 1.40
```

^{1}HNMR



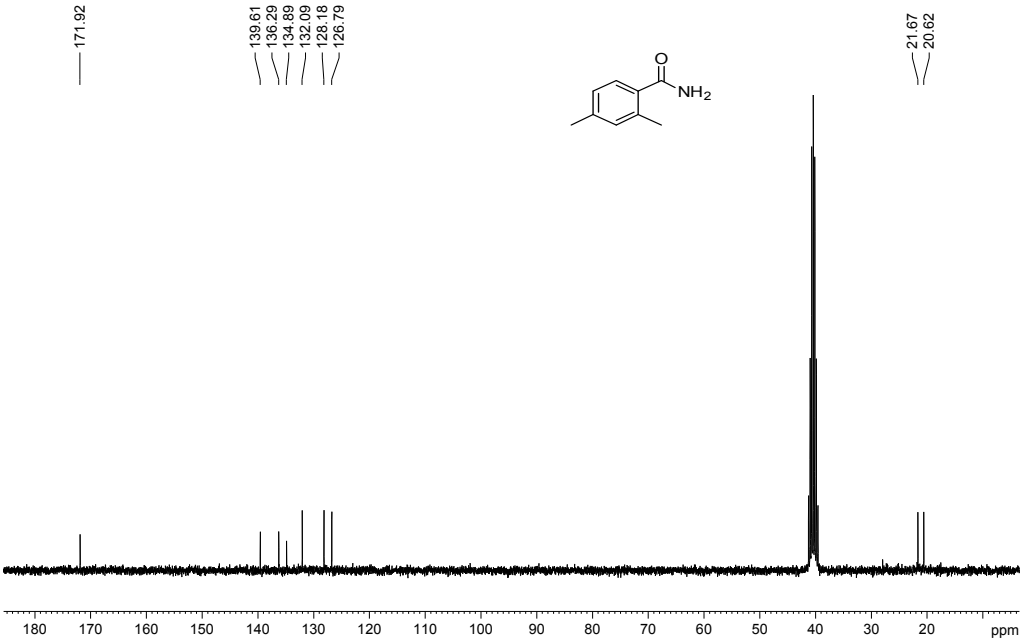

```
                                    1
NAME                    SF-622 M
EXPNO                        10
PROCNO                        1

F2 - Acquisition Parameters
Date_                 20140115
Time                      22.09
INSTRUM                  AV300
PROBHD    5 mm PABBO BB-
PULPROG                   zg30
TD                       32768
SOLVENT                   DMSO
NS                          32
DS                           4
SWH                  6172.839 Hz
FIDRES                0.188380 Hz
AQ                   2.6542079 sec
RG                       322.5
DW                     81.000 usec
DE                      6.00 usec
TE                      295.1 K
D1                 1.00000000 sec
TD0                          1

======== CHANNEL f1 ========
NUC1                        1H
P1                     11.00 usec
PL1         0 dB
PL1W              12.28312492 W
SFO1              300.1318534 MHz

F2 - Processing parameters
SI                       32768
SF                300.1299893 MHz
WDW                         EM
SSB         0
LB                      0.10 Hz
GB          0
PC                      1.00
```

^{13}CNMR

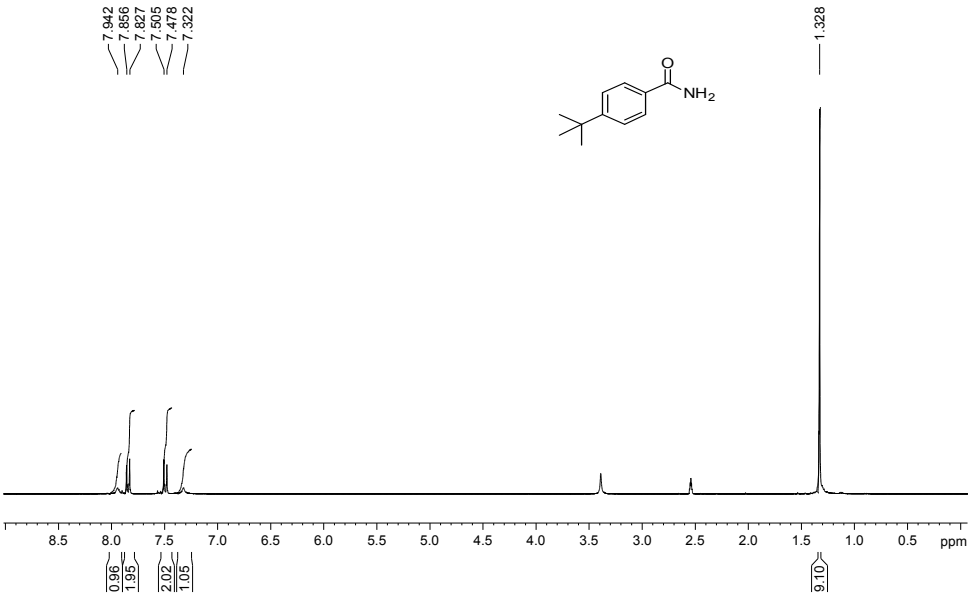



```
Current Data Parameters
NAME                    SF-622 M
EXPNO                        11
PROCNO                        1

F2 - Acquisition Parameters
Date_                 20140115
Time                      22.23
INSTRUM                  AV300
PROBHD    5 mm PABBO BB-
PULPROG                 zgpg30
TD                       32768
SOLVENT                   DMSO
NS                          256
DS                           4
SWH                 21097.047 Hz
FIDRES                0.643831 Hz
AQ                   0.7766016 sec
RG                       32768
DW                     23.700 usec
DE                      6.00 usec
TE                      295.7 K
D1                 2.00000000 sec
d11                0.03000000 sec
DELTA              1.89999998 sec
TD0                          1
SFO1                75.4771825 MHz
NUC1                        13C
P1                      9.60 usec
PLW1              -1.00000000 W
SFO2               300.1312005 MHz
NUC2                        1H
CPDPRG[2                waltz16
PCPD2                  100.00 usec
PLW2              -1.00000000 W
PLW12             -1.00000000 W
PLW13             -1.00000000 W

F2 - Processing parameters
SI                       32768
SF                 75.4677133 MHz
WDW                         EM
SSB         0
LB                      1.00 Hz
GB          0
PC                      1.40
```

^{1}HNMR



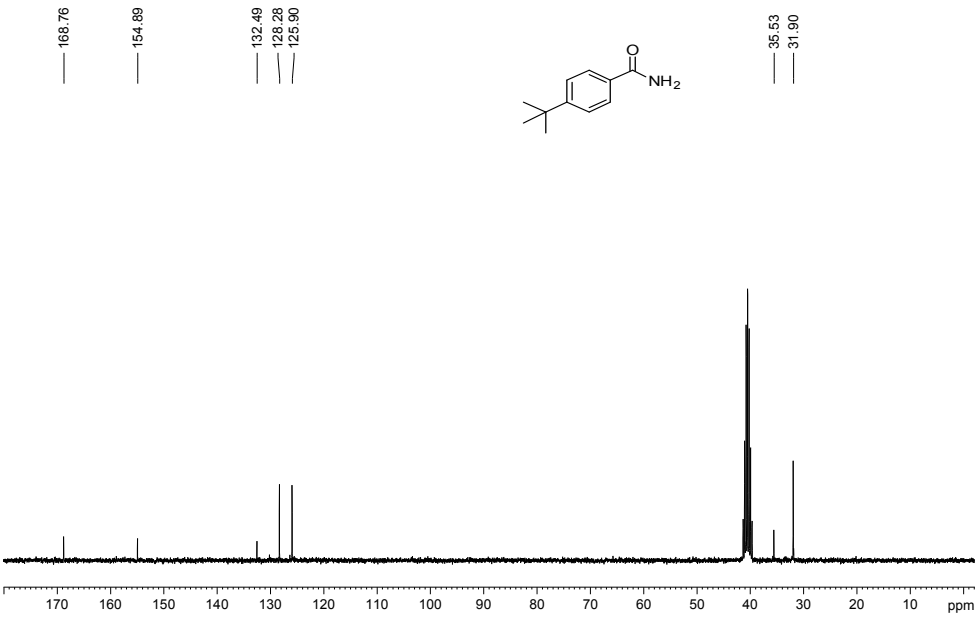

```
Current Data Parameters
NAME                  SF-623 K1
EXPNO                       10
PROCNO                       1

F2 - Acquisition Parameters
Date_                 20140131
Time                      6.13
INSTRUM                 AV300
PROBHD     5 mm PABBO BB-
PULPROG                  zg30
TD                      32768
SOLVENT                   DMSO
NS                          32
DS                           4
SWH                  6172.839 Hz
FIDRES               0.188380 Hz
AQ                   2.6542079 sec
RG                       322.5
DW                      81.000 usec
DE                       6.00 usec
TE                      293.9 K
D1                   1.00000000 sec
TD0                          1

======== CHANNEL f1 ========
NUC1                        1H
P1                       11.00 usec
PL1            0 dB
PL1W              12.28312492 W
SFO1             300.1318534 MHz

F2 - Processing parameters
SI                       32768
SF                300.1299886 MHz
WDW                         EM
SSB            0
LB                        0.10 Hz
GB             0
PC                        1.00
```

^{13}CNMR

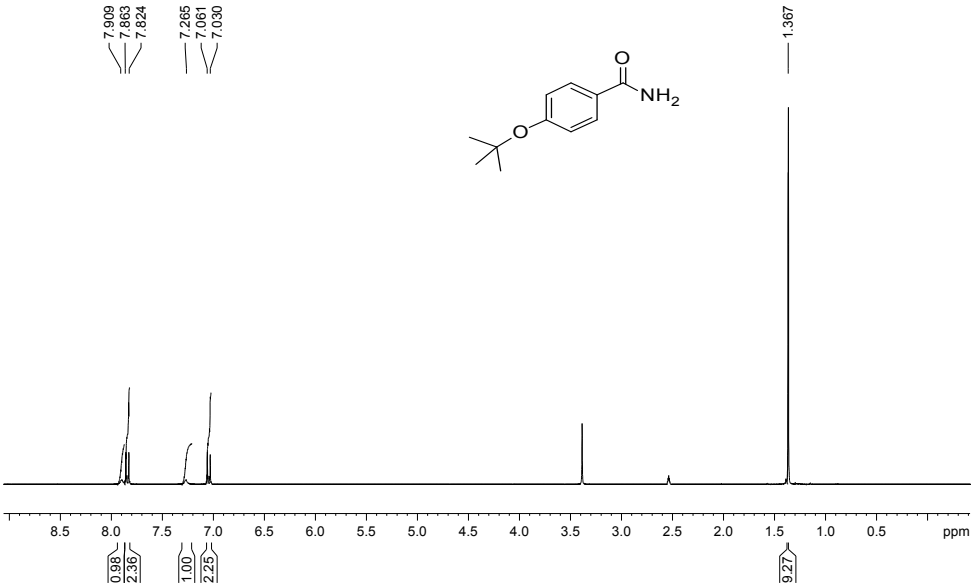



```
NAME                  SF-623 K1
EXPNO                       11
PROCNO                       1

F2 - Acquisition Parameters
Date_                 20140131
Time                      6.28
INSTRUM                 AV300
PROBHD     5 mm PABBO BB-
PULPROG                zgpg30
TD                      32768
SOLVENT                   DMSO
NS                         256
DS                           4
SWH                  21097.047 Hz
FIDRES               0.643831 Hz
AQ                   0.7766016 sec
RG                       32768
DW                      23.700 usec
DE                       6.00 usec
TE                      294.5 K
D1                   2.00000000 sec
d11                  0.03000000 sec
DELTA                1.89999998 sec
TD0                          1
SFO1                75.4771825 MHz
NUC1                        13C
P1                       9.60 usec
PLW1                -1.00000000 W
SFO2                300.1312005 MHz
NUC2                        1H
CPDPRG[2                waltz16
PCPD2                  100.00 usec
PLW2                -1.00000000 W
PLW12               -1.00000000 W
PLW13               -1.00000000 W

F2 - Processing parameters
SI                       32768
SF                75.4677113 MHz
WDW                         EM
SSB            0
LB                        1.00 Hz
GB             0
PC                        1.40
```

^{1}HNMR



BRUKER

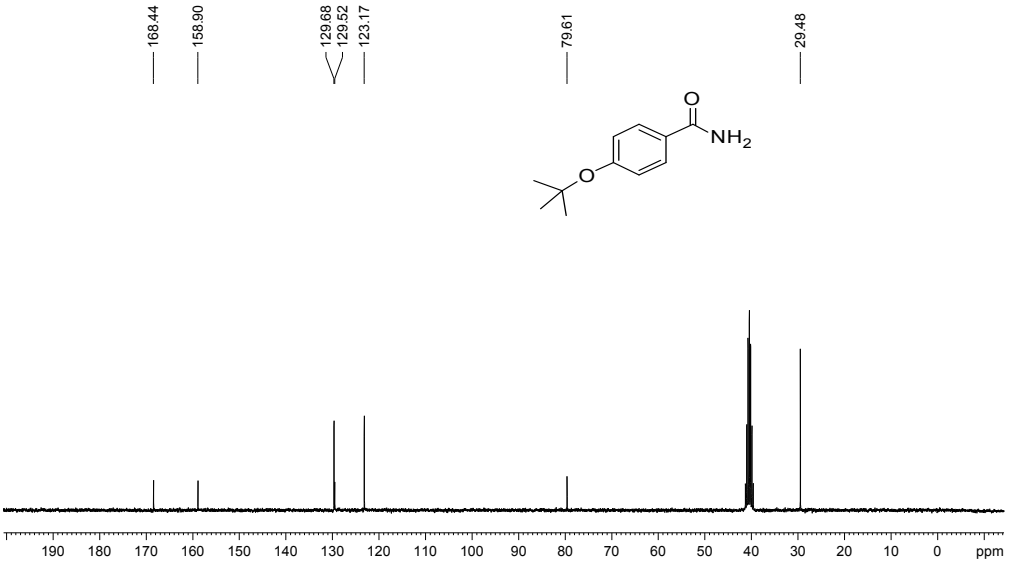
```
Current Data Parameters
NAME       SF-622 AB (2)
EXPNO                 13
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140117
Time              11.30
INSTRUM           AV300
PROBHD   5 mm PABBO BB-
PULPROG            zg30
TD                32768
SOLVENT            DMSO
NS                    32
DS                     4
SWH            6172.839 Hz
FIDRES         0.188380 Hz
AQ             2.6542079 sec
RG                   128
DW                81.000 usec
DE                 6.00 usec
TE                295.7 K
D1             1.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                 11.00 usec
PL1        0 dB
PL1W         12.28312492 W
SFO1         300.1318534 MHz

F2 - Processing parameters
SI                 32768
SF           300.1299899 MHz
WDW                   EM
SSB        0
LB                 0.10 Hz
GB         0
PC                 1.00
```

^{13}CNMR



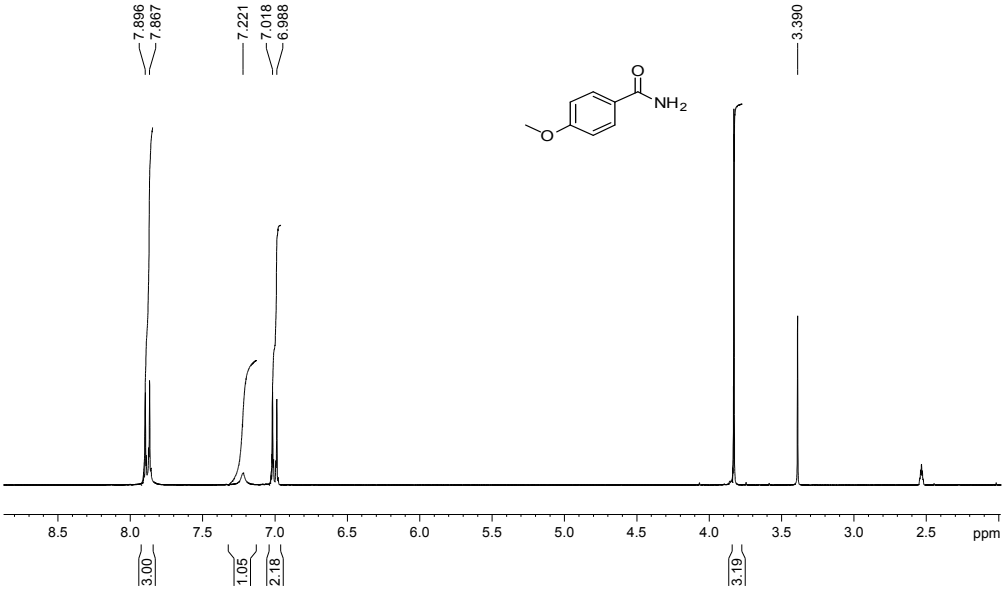
BRUKER

```
Current Data Parameters
NAME       SF-622 AB (2)
EXPNO                 11
PROCNO                 1

F2 - Acquisition Parameters
Date_           20140117
Time              11.19
INSTRUM           AV300
PROBHD   5 mm PABBO BB-
PULPROG           zgpg30
TD                32768
SOLVENT            DMSO
NS                   256
DS                     4
SWH           21097.047 Hz
FIDRES         0.643831 Hz
AQ             0.7766016 sec
RG                 32768
DW                23.700 usec
DE                 6.00 usec
TE                296.2 K
D1             2.00000000 sec
d11            0.03000000 sec
DELTA          1.89999998 sec
TD0                    1
SFO1          75.4771825 MHz
NUC1                  13C
P1                 9.60 usec
PLW1         -1.00000000 W
SFO2         300.1312005 MHz
NUC2                  1H
CPDPRG[2          waltz16
PCPD2            100.00 usec
PLW2         -1.00000000 W
PLW12        -1.00000000 W
PLW13        -1.00000000 W

F2 - Processing parameters
SI                 32768
SF           75.4677118 MHz
WDW                   EM
SSB        0
LB                 1.00 Hz
GB         0
PC                 1.40
```

^{1}HNMR



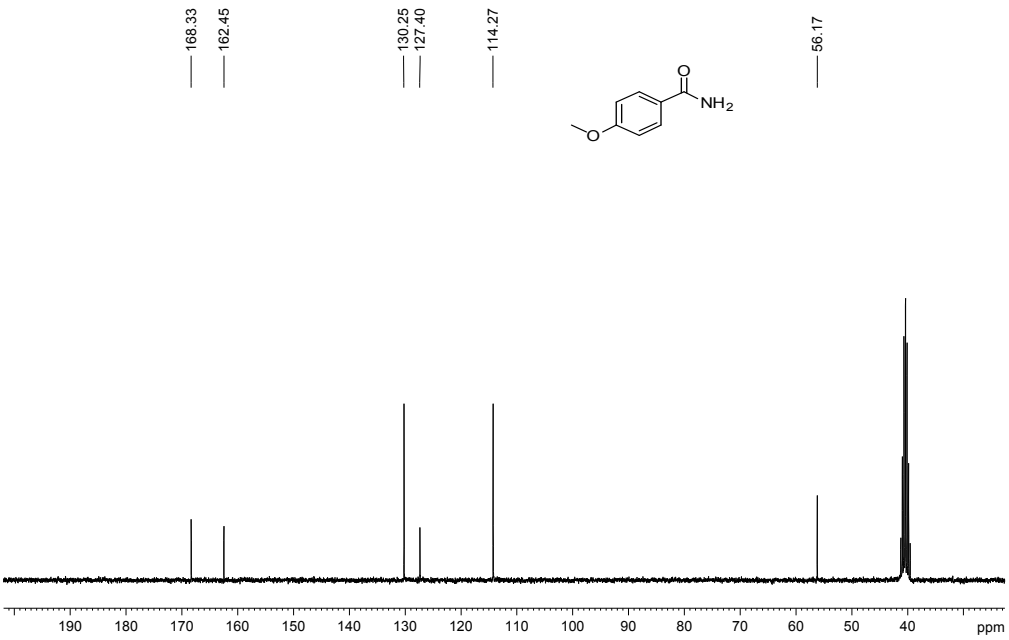

```
Current Data Parameters
NAME                  SF-622 E
EXPNO                      10
PROCNO                      1

F2 - Acquisition Parameters
Date_               20140117
Time                   12.14
INSTRUM                AV300
PROBHD    5 mm PABBO BB-
PULPROG                zg30
TD                    32768
SOLVENT                DMSO
NS                        32
DS                         4
SWH                6172.839 Hz
FIDRES            0.188380 Hz
AQ                2.6542079 sec
RG                     161.3
DW                  81.000 usec
DE                   6.00 usec
TE                   295.6 K
D1              1.00000000 sec
TD0                        1

======== CHANNEL f1 ========
NUC1                      1H
P1                    11.00 usec
PL1        0 dB
PL1W          12.28312492 W
SFO1          300.1318534 MHz

F2 - Processing parameters
SI                        32768
SF             300.1299910 MHz
WDW                        EM
SSB        0
LB                     0.10 Hz
GB         0
PC                     1.00
```

^{13}CNMR

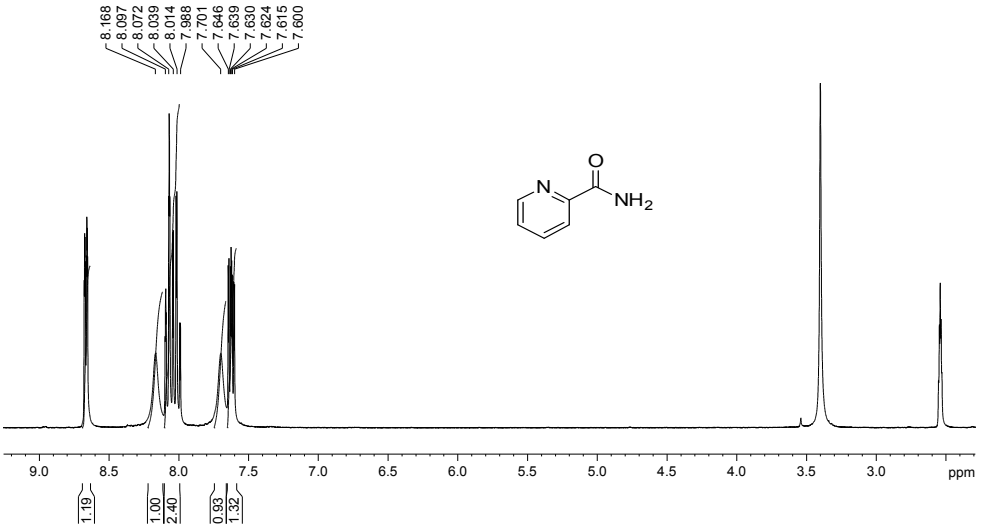



```
Current Data Parameters
NAME                  SF-622 E
EXPNO                      11
PROCNO                      1

F2 - Acquisition Parameters
Date_               20140117
Time                   12.27
INSTRUM                AV300
PROBHD    5 mm PABBO BB-
PULPROG             zgpg30
TD                    32768
SOLVENT                DMSO
NS                       256
DS                         4
SWH               21097.047 Hz
FIDRES            0.643831 Hz
AQ                0.7766016 sec
RG                     32768
DW                  23.700 usec
DE                   6.00 usec
TE                   296.1 K
D1              2.00000000 sec
d11             0.03000000 sec
DELTA           1.89999998 sec
TD0                        1
SFO1           75.4771825 MHz
NUC1                      13C
P1                    9.60 usec
PLW1         -1.00000000 W
SFO2          300.1312005 MHz
NUC2                      1H
CPDPRG[2           waltz16
PCPD2               100.00 usec
PLW2         -1.00000000 W
PLW12        -1.00000000 W
PLW13        -1.00000000 W

F2 - Processing parameters
SI                        32768
SF             75.4677162 MHz
WDW                        EM
SSB        0
LB                     1.00 Hz
GB         0
PC                     1.40
```

^{1}HNMR



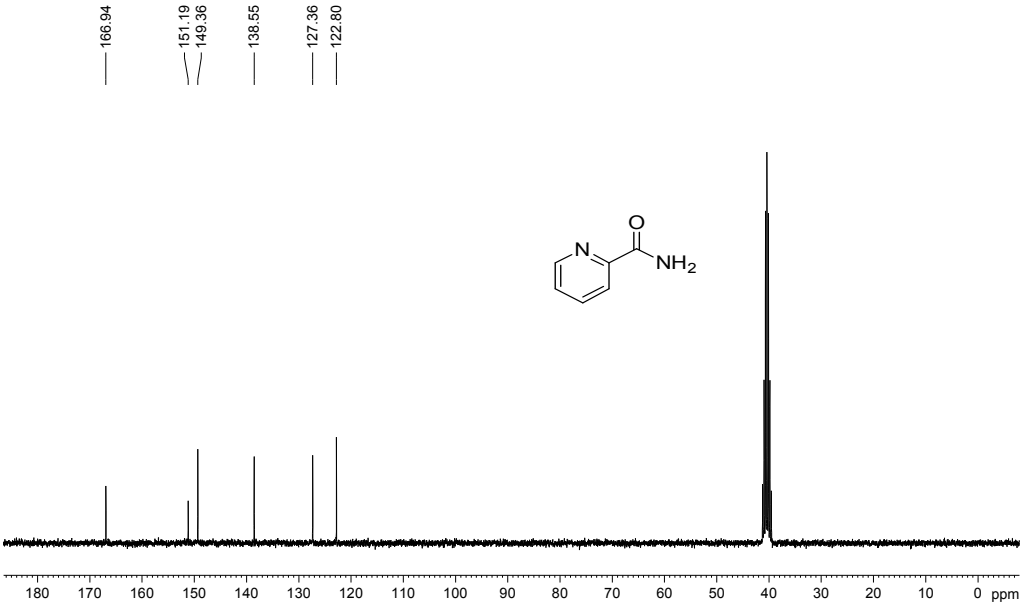

```
Current Data Parameters
NAME                  SF-623 V
EXPNO                       10
PROCNO                       1

F2 - Acquisition Parameters
Date_                 20140205
Time                     11.23
INSTRUM             FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG                  zg30
TD                      65536
SOLVENT                  DMSO
NS                          16
DS                           2
SWH                  6103.516 Hz
FIDRES               0.093132 Hz
AQ                   5.3687091 sec
RG                      31.623
DW                      81.920 usec
DE                       6.50 usec
TE                      296.4 K
D1                   1.00000000 sec
TD0                          1

======== CHANNEL f1 ========
SFO1                300.2018539 MHz
NUC1                        1H
P1                       11.00 usec
PLW1                16.00000000 W

F2 - Processing parameters
SI                      65536
SF                  300.1999864 MHz
WDW                         EM
SSB                  0
LB                       0.30 Hz
GB                   0
PC                       1.00
```

^{13}CNMR




```
Current Data Parameters
NAME                  SF-623 V
EXPNO                       11
PROCNO                       1

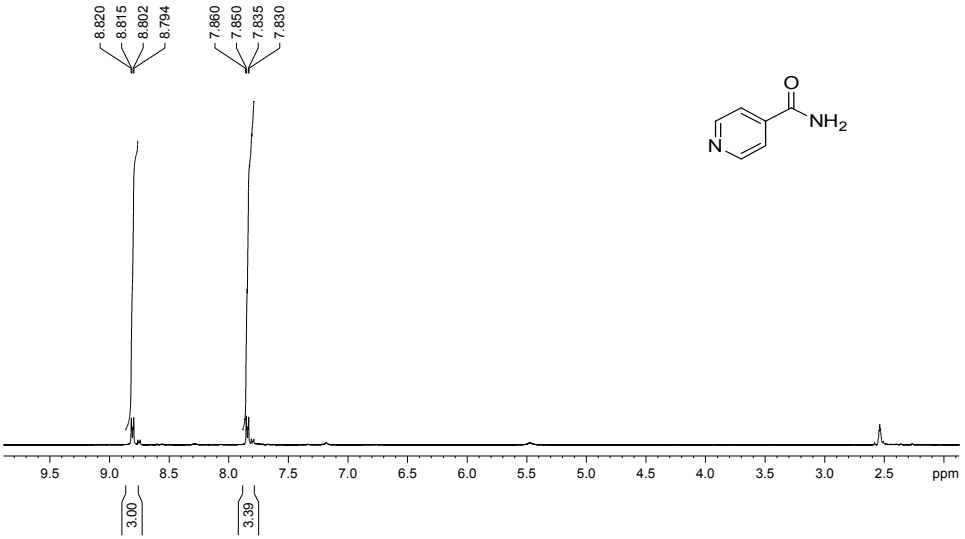
F2 - Acquisition Parameters
Date_                 20140205
Time                     11.26
INSTRUM             FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG                zgpg30
TD                      65536
SOLVENT                  DMSO
NS                         256
DS                           4
SWH                 24414.063 Hz
FIDRES               0.372529 Hz
AQ                   1.3421773 sec
RG                      501.187
DW                       20.480 usec
DE                       6.50 usec
TE                      296.5 K
D1                   2.00000000 sec
D11                  0.03000000 sec
D31                  0.00001140 sec
D40                  0.02898005 sec
L4                          40
L5                          57
P32                     90.00 usec
TD0                          1

======== CHANNEL f1 ========
SFO1                 75.4928982 MHz
NUC1                        13C
P1                       11.40 usec
PLW1                30.00000000 W

======== CHANNEL f2 ========
SFO2                300.2012008 MHz
NUC2                        1H
CPDPRG[2                waltz16
PCPD2                    90.00 usec
PLW2                16.00000000 W
PLW12                0.23901001 W
PLW13                0.19360000 W

F2 - Processing parameters
SI                      32768
SF                   75.4853155 MHz
WDW                         EM
SSB                  0
LB                       1.00 Hz
GB                   0
PC                       1.40
```

^{1}HNMR



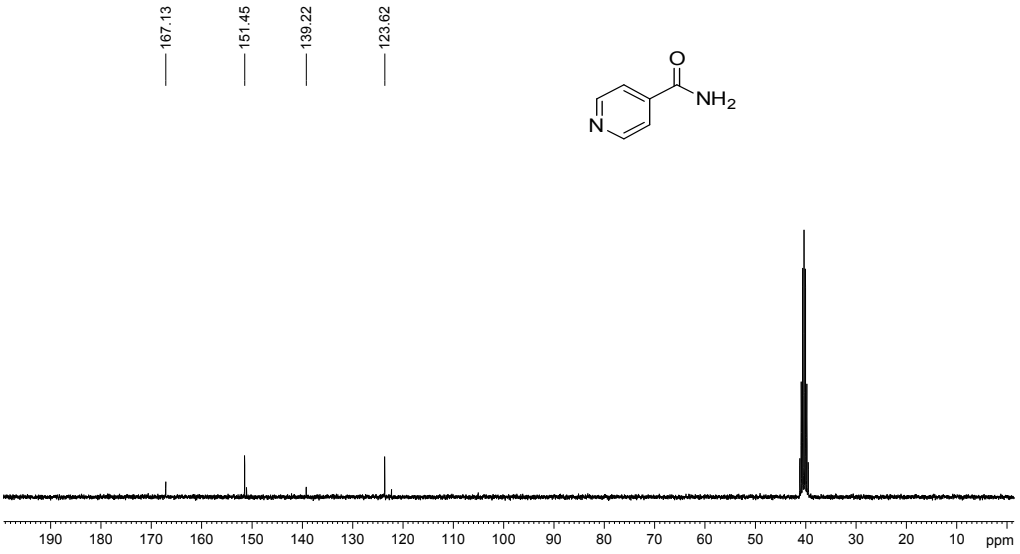

```
Current Data Parameters
NAME                 SF-623 D
EXPNO                      10
PROCNO                      1

F2 - Acquisition Parameters
Date_               20140205
Time                   10.54
INSTRUM            FOURIER300
PROBHD     5 mm DUL 13C-1
PULPROG                zg30
TD                    65536
SOLVENT                DMSO
NS                        16
DS                         2
SWH                 6103.516 Hz
FIDRES              0.093132 Hz
AQ                  5.3687091 sec
RG                    81.2087
DW                    81.920 usec
DE                     6.50 usec
TE                    296.2 K
D1                 1.00000000 sec
TD0                        1

======== CHANNEL f1 ========
SFO1          300.2018539 MHz
NUC1                    1H
P1                   11.00 usec
PLW1          16.00000000 W

F2 - Processing parameters
SI                     65536
SF            300.1999865 MHz
WDW                       EM
SSB       0
LB                    0.30 Hz
GB        0
PC                    1.00
```

^{13}CNMR




```
Current Data Parameters
NAME                 SF-623 D
EXPNO                      11
PROCNO                      1

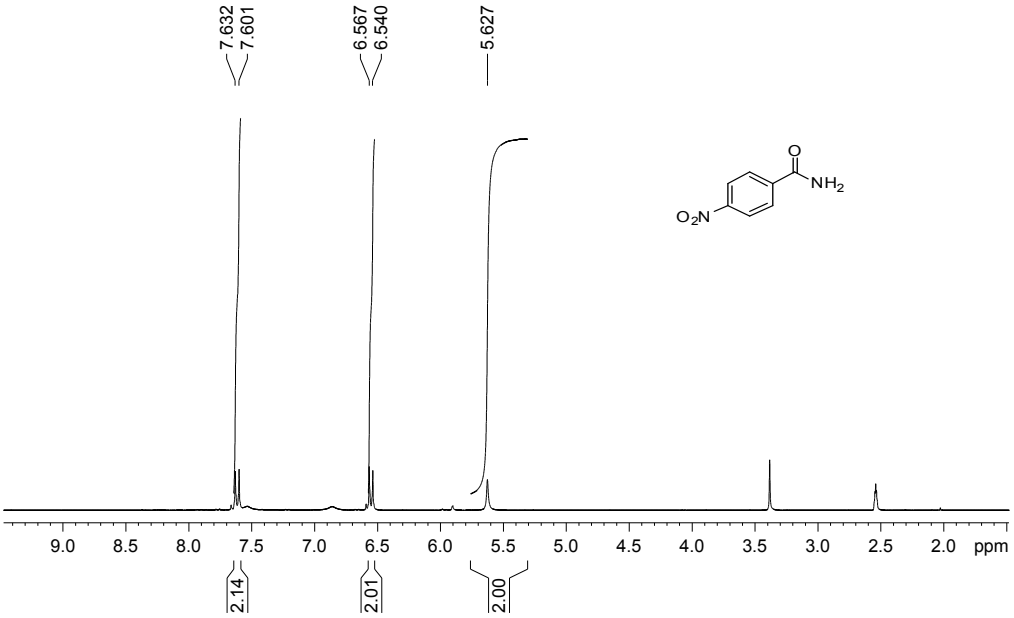
F2 - Acquisition Parameters
Date_               20140205
Time                   10.57
INSTRUM            FOURIER300
PROBHD     5 mm DUL 13C-1
PULPROG             zgpg30
TD                    65536
SOLVENT                DMSO
NS                       256
DS                         4
SWH                24414.063 Hz
FIDRES              0.372529 Hz
AQ                  1.3421773 sec
RG                    501.187
DW                    20.480 usec
DE                     6.50 usec
TE                    296.4 K
D1                 2.00000000 sec
D11                0.03000000 sec
D31                0.00001140 sec
D40                0.02898005 sec
L4                        40
L5                        57
P32                   90.00 usec
TD0                        1

======== CHANNEL f1 ========
SFO1           75.4928982 MHz
NUC1                   13C
P1                   11.40 usec
PLW1          30.00000000 W

======== CHANNEL f2 ========
SFO2          300.2012008 MHz
NUC2                   1H
CPDPRG[2           waltz16
PCPD2                90.00 usec
PLW2          16.00000000 W
PLW12          0.23901001 W
PLW13          0.19360000 W

F2 - Processing parameters
SI                     32768
SF             75.4853196 MHz
WDW                       EM
SSB       0
LB                    1.00 Hz
GB        0
PC                    1.40
```

^{1}HNMR



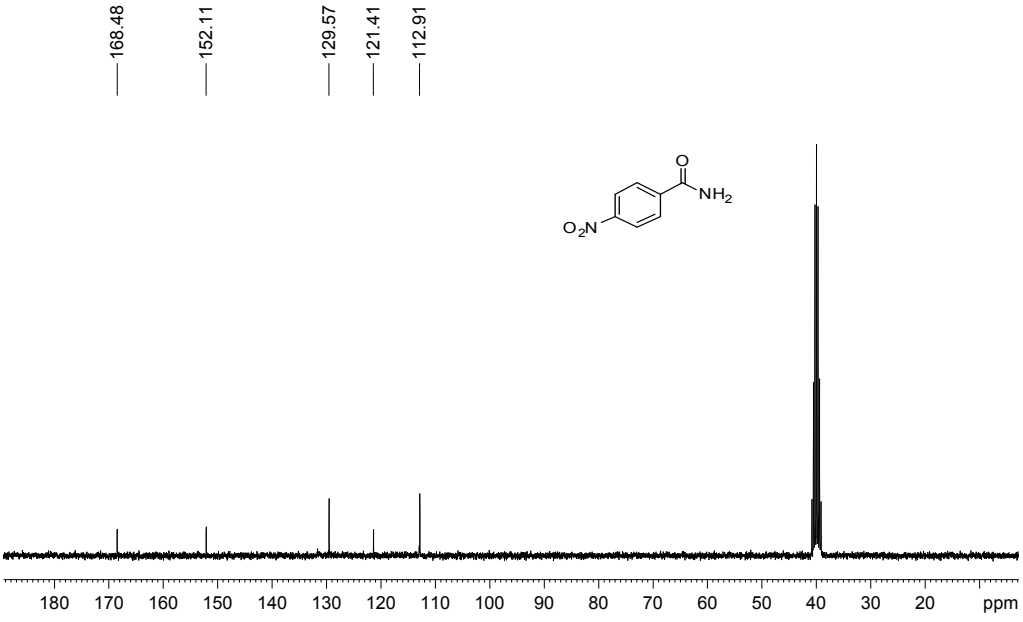

```
Current Data Parameters
NAME                  SF 623 C2
EXPNO                        10
PROCNO                        1

F2 - Acquisition Parameters
Date_                 20140306
Time                     15.08
INSTRUM              FOURIER300
PROBHD   5 mm DUL 13C-1
PULPROG                   zg30
TD                       65536
SOLVENT                   DMSO
NS                           16
DS                            2
SWH                   6103.516 Hz
FIDRES                0.093132 Hz
AQ                    5.3687091 sec
RG                       61.4944
DW                       81.920 usec
DE                        6.50 usec
TE                       342.9 K
D1                    1.00000000 sec
TD0                           1

======== CHANNEL f1 ========
SFO1                300.2018539 MHz
NUC1                        1H
P1                       11.00 usec
PLW1                16.00000000 W

F2 - Processing parameters
SI                           65536
SF                  300.1999866 MHz
WDW                             EM
SSB                  0
LB                        0.30 Hz
GB                   0
PC                        1.00
```

^{13}CNMR




```
Current Data Parameters
NAME                  SF 623 C2
EXPNO                        11
PROCNO                        1

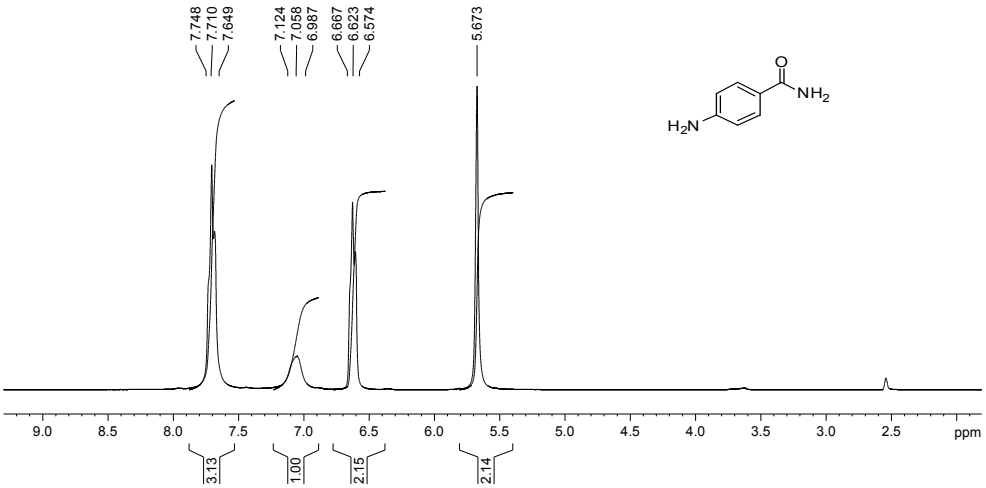
F2 - Acquisition Parameters
Date_                 20140306
Time                     15.11
INSTRUM              FOURIER300
PROBHD   5 mm DUL 13C-1
PULPROG                zgpg30
TD                       65536
SOLVENT                   DMSO
NS                         256
DS                           4
SWH                  24414.063 Hz
FIDRES                0.372529 Hz
AQ                    1.3421773 sec
RG                       501.187
DW                       20.480 usec
DE                        6.50 usec
TE                       343.0 K
D1                    2.00000000 sec
D11                   0.03000000 sec
D31                   0.00001140 sec
D40                   0.02898005 sec
L4                          40
L5                          57
P32                      90.00 usec
TD0                           1

======== CHANNEL f1 ========
SFO1                75.4928982 MHz
NUC1                        13C
P1                       11.40 usec
PLW1                30.00000000 W

======== CHANNEL f2 ========
SFO2                300.2012008 MHz
NUC2                        1H
CPDPRG[2                waltz16
PCPD2                    90.00 usec
PLW2                16.00000000 W
PLW12                0.23901001 W
PLW13                0.19360000 W

F2 - Processing parameters
SI                           32768
SF                  75.4853488 MHz
WDW                             EM
SSB                  0
LB                        1.00 Hz
GB                   0
PC                        1.40
```

^{1}HNMR



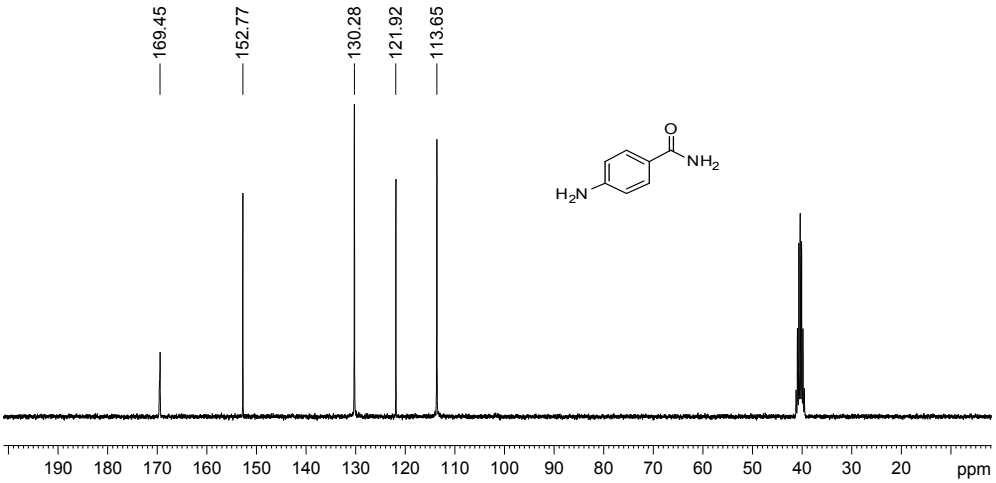

```
Current Data Parameters
NAME                  SF 623
EXPNO                     10
PROCNO                     1

F2 - Acquisition Parameters
Date_              20140307
Time                  11.06
INSTRUM          FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG                zg30
TD                    65536
SOLVENT                DMSO
NS                        16
DS                         2
SWH                6103.516 Hz
FIDRES            0.093132 Hz
AQ                5.3687091 sec
RG                   4.71346
DW                  81.920 usec
DE                   6.50 usec
TE                  337.3 K
D1               1.00000000 sec
TD0                        1

======== CHANNEL f1 ========
SFO1            300.2018539 MHz
NUC1                      1H
P1                     11.00 usec
PLW1           16.00000000 W

F2 - Processing parameters
SI                    65536
SF              300.1999856 MHz
WDW                      EM
SSB          0
LB                    0.30 Hz
GB           0
PC                    1.00
```

^{13}CNMR




```
Current Data Parameters
NAME                  SF 623
EXPNO                     11
PROCNO                     1

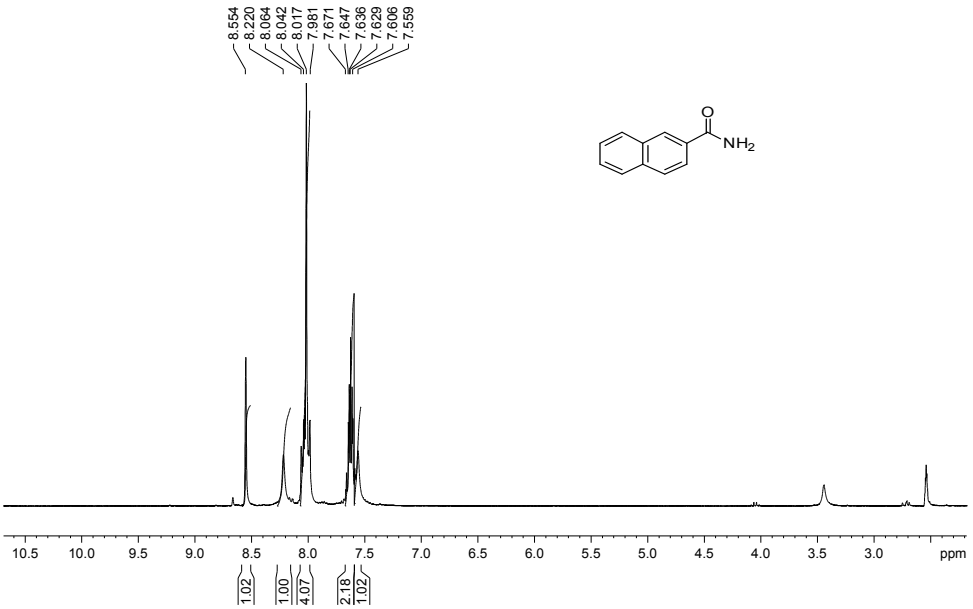
F2 - Acquisition Parameters
Date_              20140307
Time                  11.09
INSTRUM          FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG             zgpg30
TD                    65536
SOLVENT                DMSO
NS                       256
DS                         4
SWH               24414.063 Hz
FIDRES            0.372529 Hz
AQ                1.3421773 sec
RG                   501.187
DW                  20.480 usec
DE                   6.50 usec
TE                  335.8 K
D1               2.00000000 sec
D11              0.03000000 sec
D31              0.00001140 sec
D40              0.02898005 sec
L4                        40
L5                        57
P32                 90.00 usec
TD0                        1

======== CHANNEL f1 ========
SFO1            75.4928982 MHz
NUC1                      13C
P1                     11.40 usec
PLW1           30.00000000 W

======== CHANNEL f2 ========
SFO2           300.2012008 MHz
NUC2                      1H
CPDPRG[2             waltz16
PCPD2                 90.00 usec
PLW2           16.00000000 W
PLW12           0.23901001 W
PLW13           0.19360000 W

F2 - Processing parameters
SI                    32768
SF              75.4853053 MHz
WDW                      EM
SSB          0
LB                    1.00 Hz
GB           0
PC                    1.40
```

^{1}HNMR



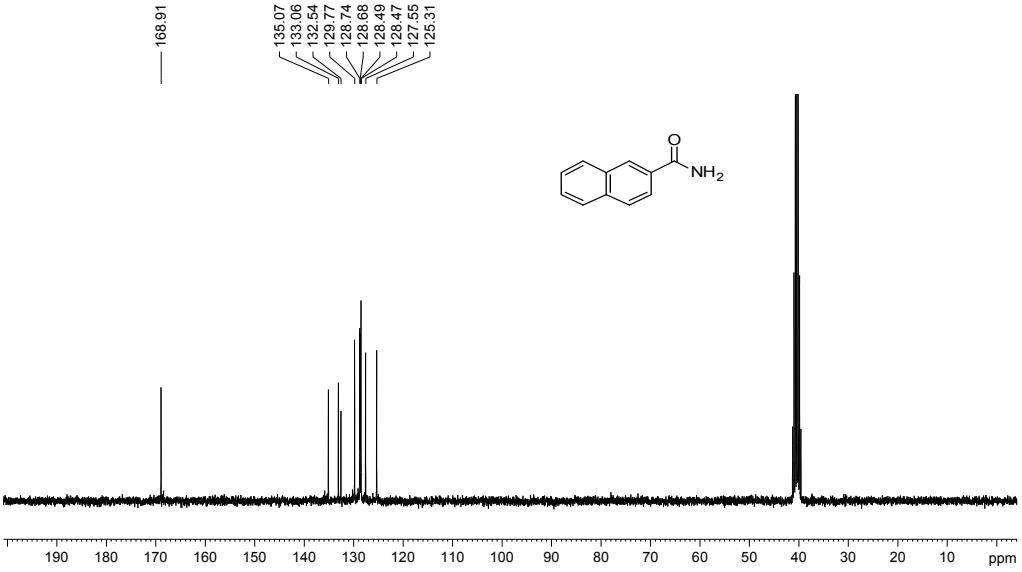

```
NAME              SF-623 X 4
EXPNO                     10
PROCNO                     1

F2 - Acquisition Parameters
Date_               20140130
Time                    7.41
INSTRUM         FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG                zg30
TD                    65536
SOLVENT                DMSO
NS                        16
DS                         2
SWH                6103.516 Hz
FIDRES            0.093132 Hz
AQ                5.3687091 sec
RG                  17.7829
DW                  81.920 usec
DE                    6.50 usec
TE                   295.7 K
D1                1.00000000 sec
TD0                        1

========= CHANNEL f1 ========
SFO1            300.2018539 MHz
NUC1                      1H
P1                     11.00 usec
PLW1            16.00000000 W

F2 - Processing parameters
SI                        65536
SF              300.1999859 MHz
WDW                         EM
SSB         0
LB                      0.30 Hz
GB          0
PC                      1.00
```

^{13}CNMR




```
NAME              SF-623 X 4
EXPNO                     11
PROCNO                     1

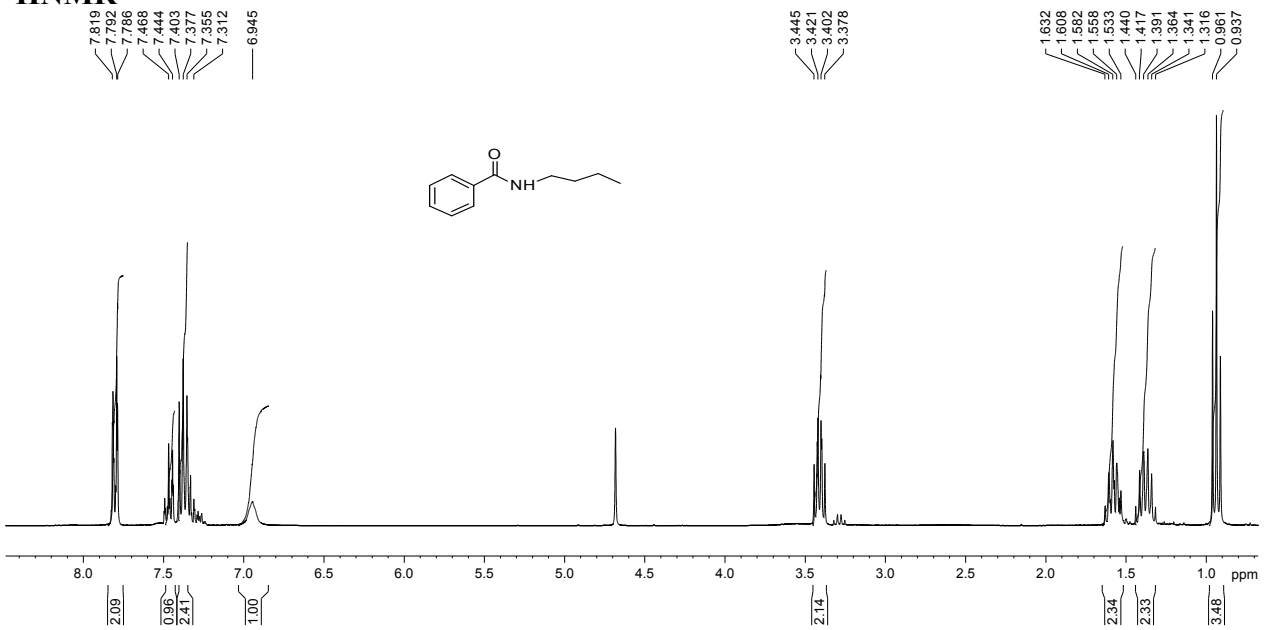
F2 - Acquisition Parameters
Date_               20140130
Time                    7.44
INSTRUM         FOURIER300
PROBHD    5 mm DUL 13C-1
PULPROG             zgpg30
TD                    65536
SOLVENT                DMSO
NS                      256
DS                        4
SWH               24414.063 Hz
FIDRES            0.372529 Hz
AQ                1.3421773 sec
RG                  501.187
DW                  20.480 usec
DE                    6.50 usec
TE                   295.8 K
D1                2.00000000 sec
D11               0.03000000 sec
D31               0.00001140 sec
D40               0.02898005 sec
L4                        40
L5                        57
P32                 90.00 usec
TD0                        1

========= CHANNEL f1 ========
SFO1             75.4928982 MHz
NUC1                      13C
P1                     11.40 usec
PLW1            30.00000000 W

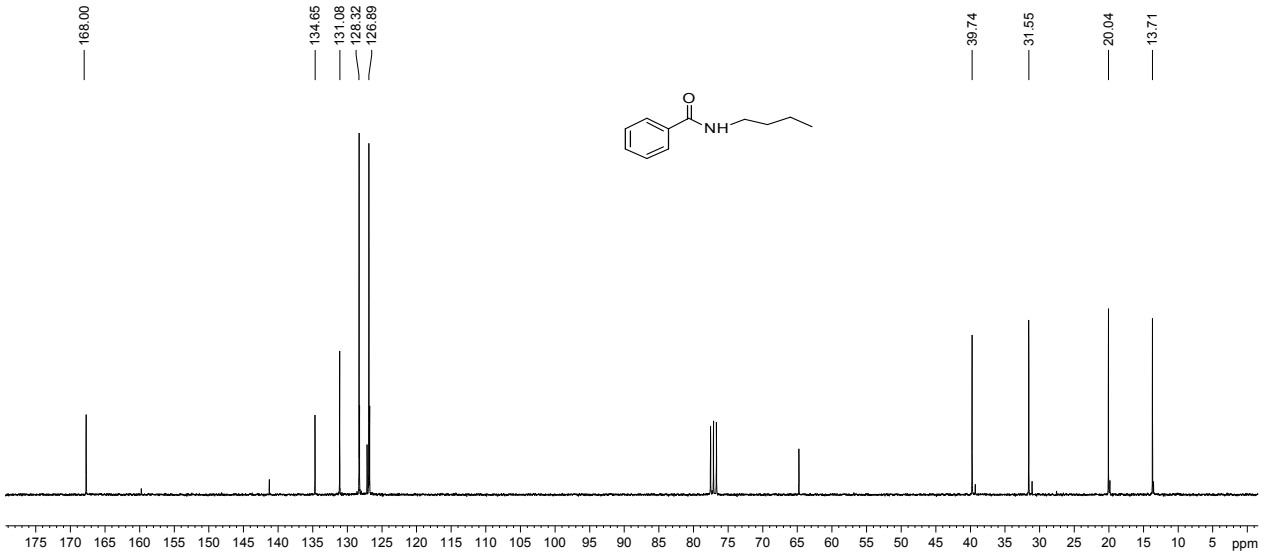
========= CHANNEL f2 ========
SFO2            300.2012008 MHz
NUC2                      1H
CPDPRG[2             waltz16
PCPD2                 90.00 usec
PLW2            16.00000000 W
PLW12            0.23901001 W
PLW13            0.19360000 W

F2 - Processing parameters
SI                        32768
SF               75.4853163 MHz
WDW                         EM
SSB         0
LB                      1.00 Hz
GB          0
PC                      1.40
```

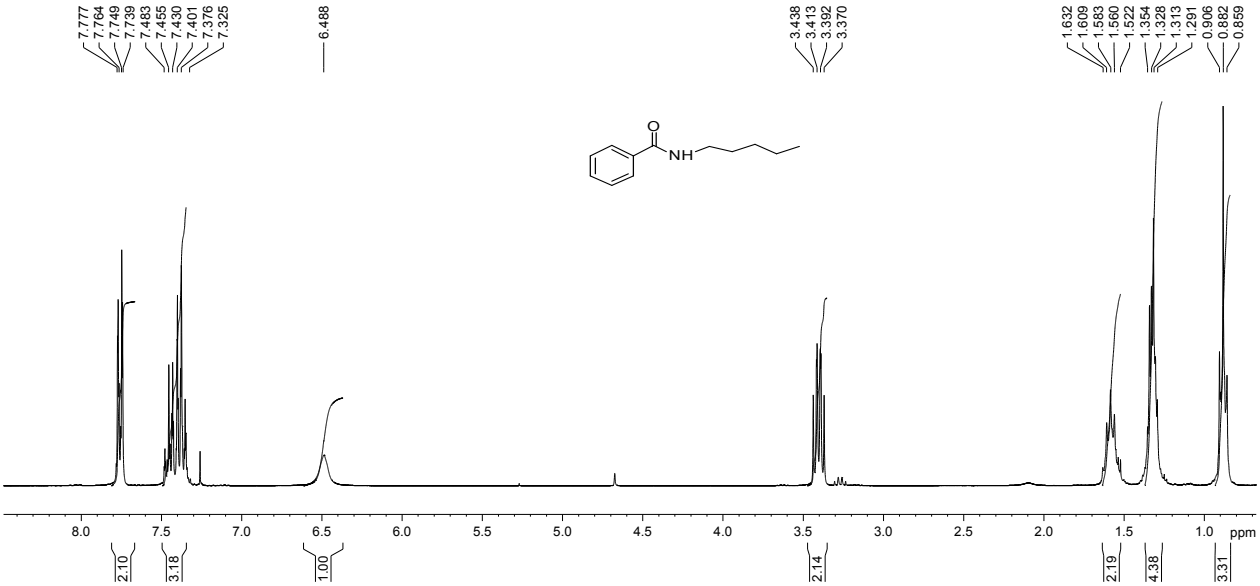
^{1}HNMR



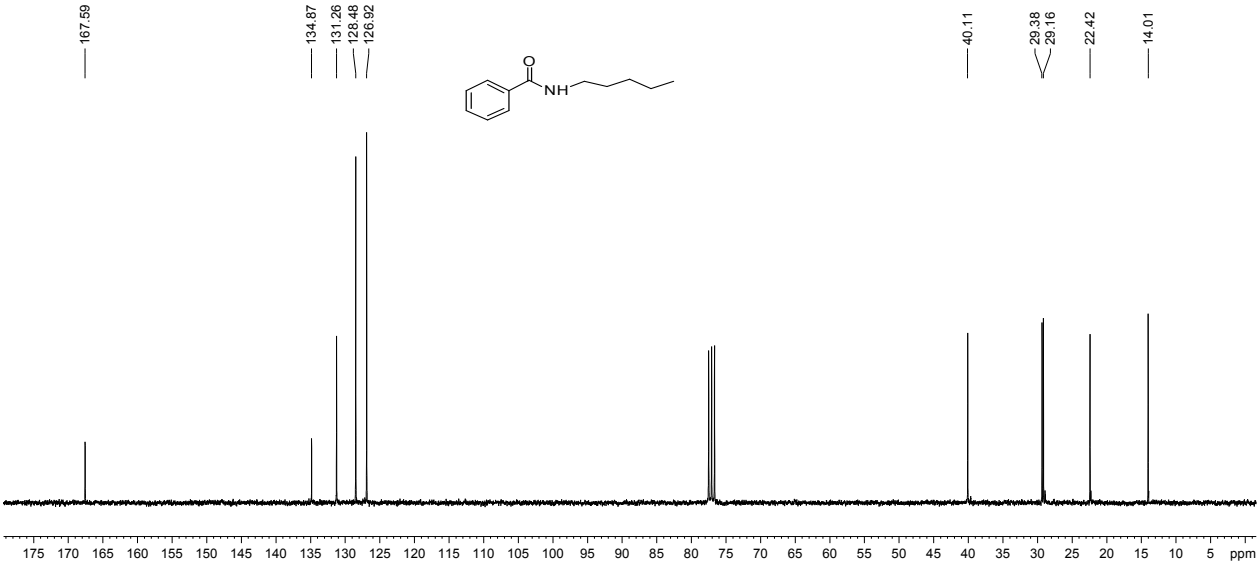
^{13}CNMR



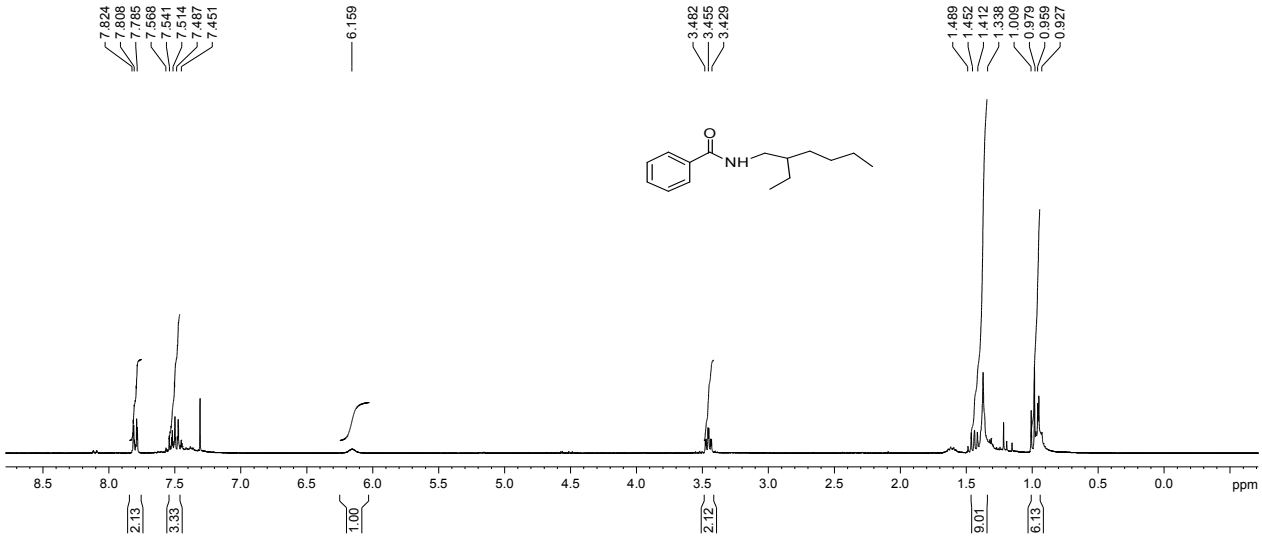
^{1}HNMR



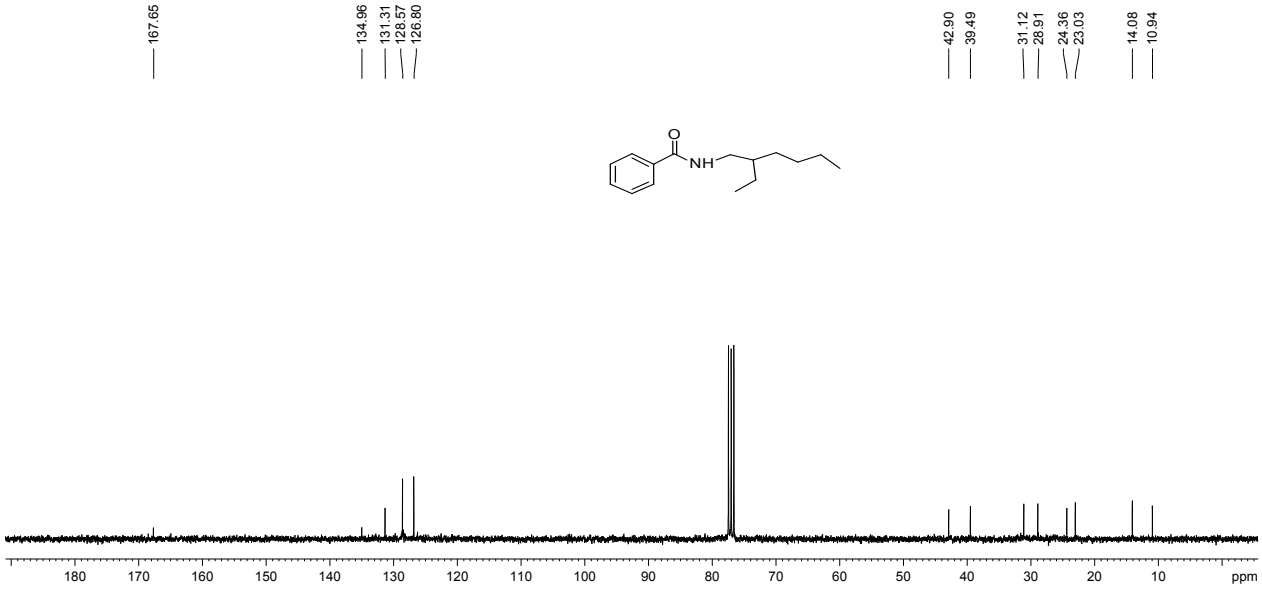
^{13}CNMR



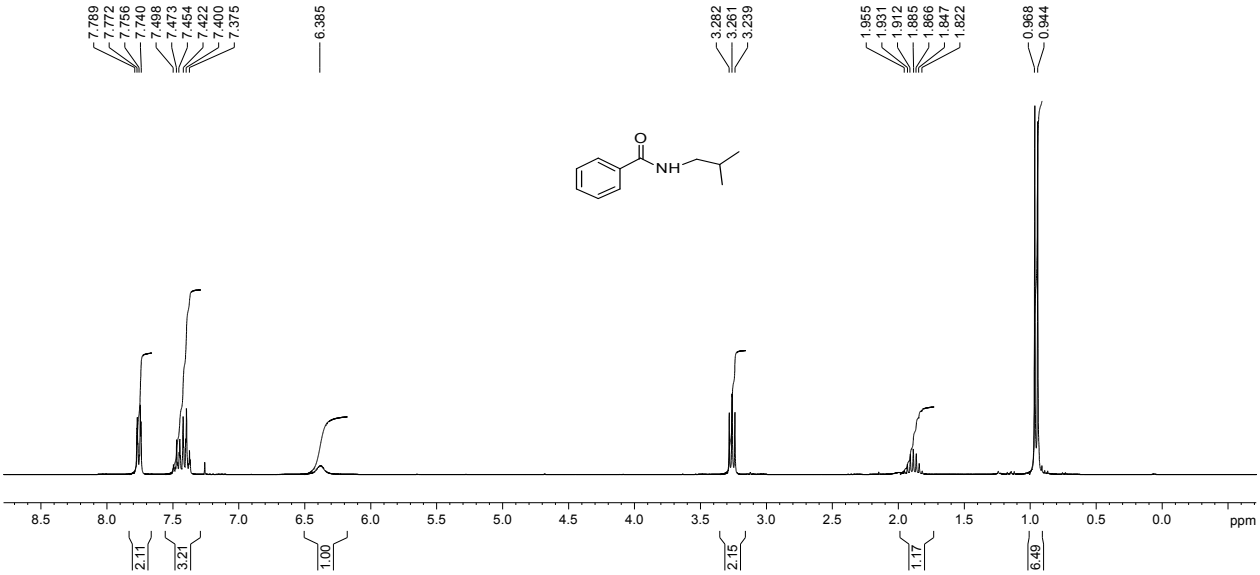
^{1}HNMR



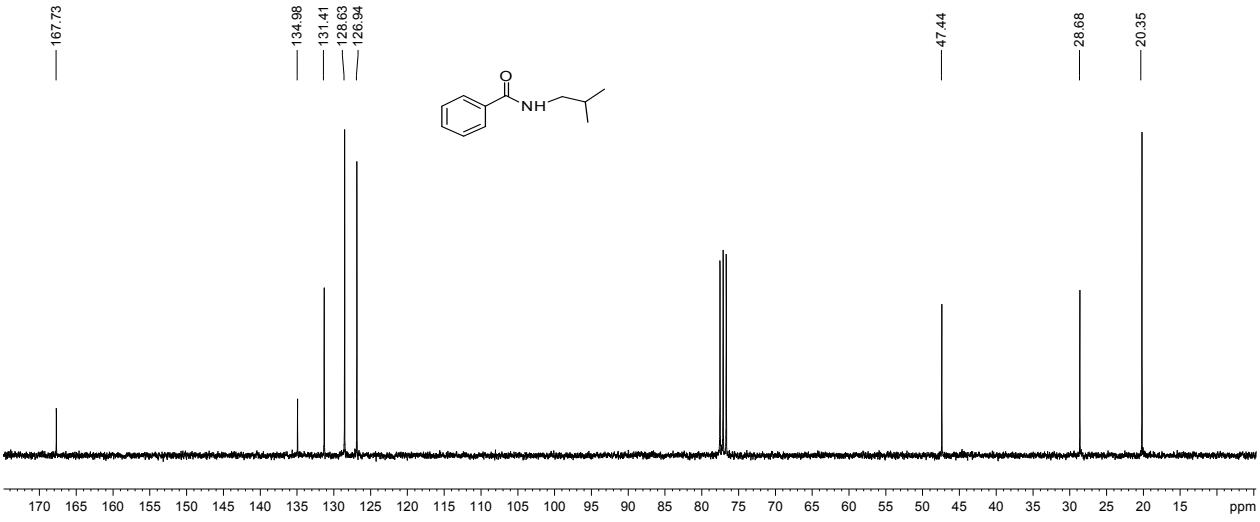
^{13}CNMR



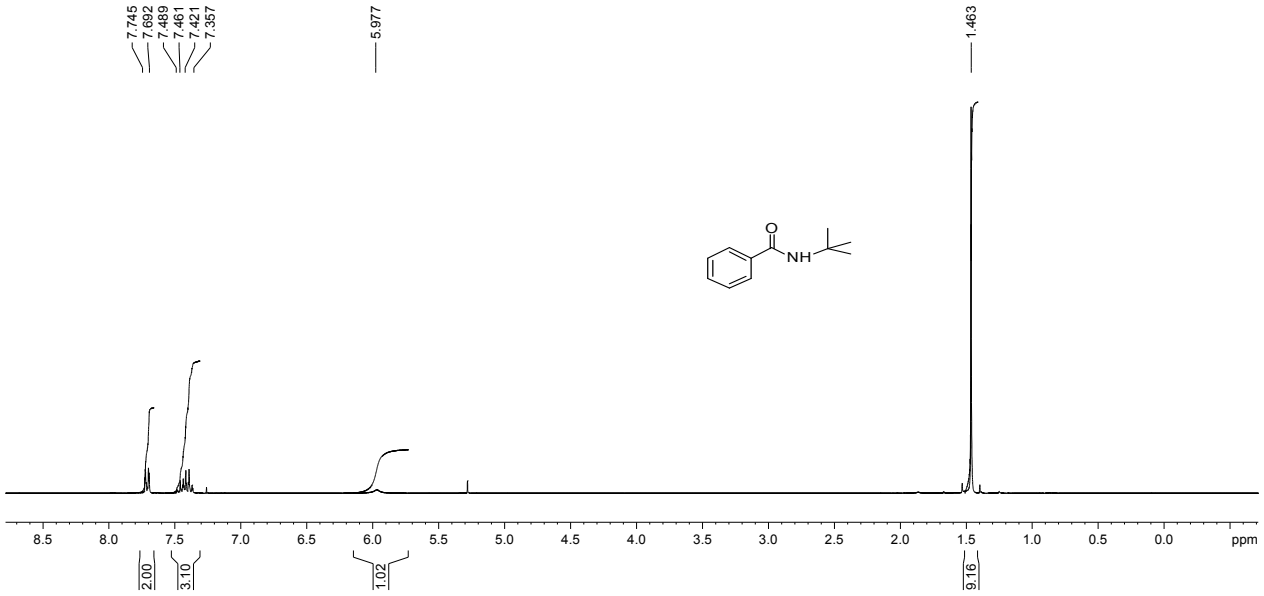
^{1}HNMR



^{13}CNMR



^{1}HNMR



^{13}CNMR