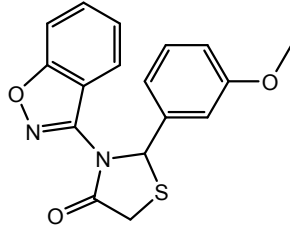


**Nano-MoO₃ mediated synthesis of bioactive thiazolidin-4-ones and
their anti-bacterial mode-of-action analysis using *in silico* target
prediction, docking and similarity searching.**

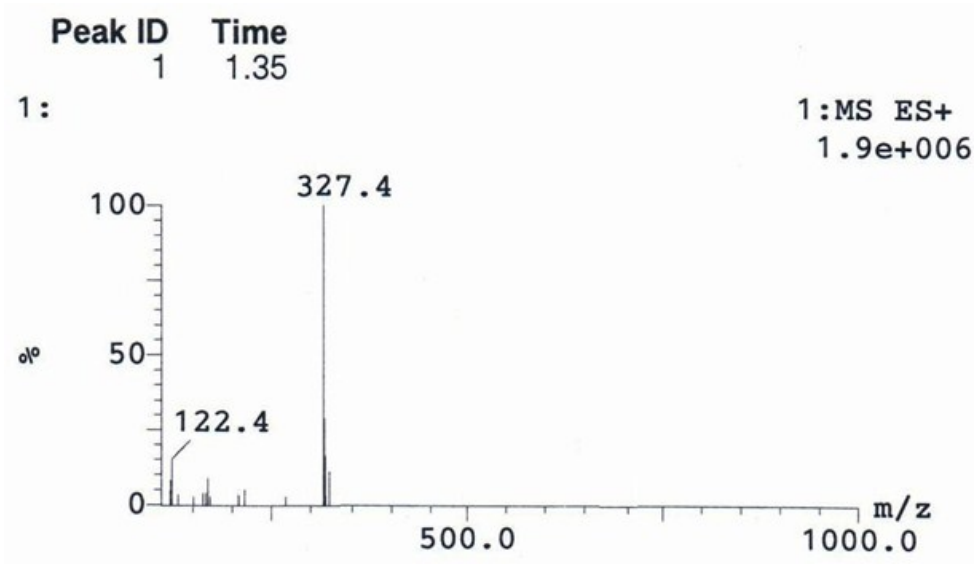
Supplementary Information

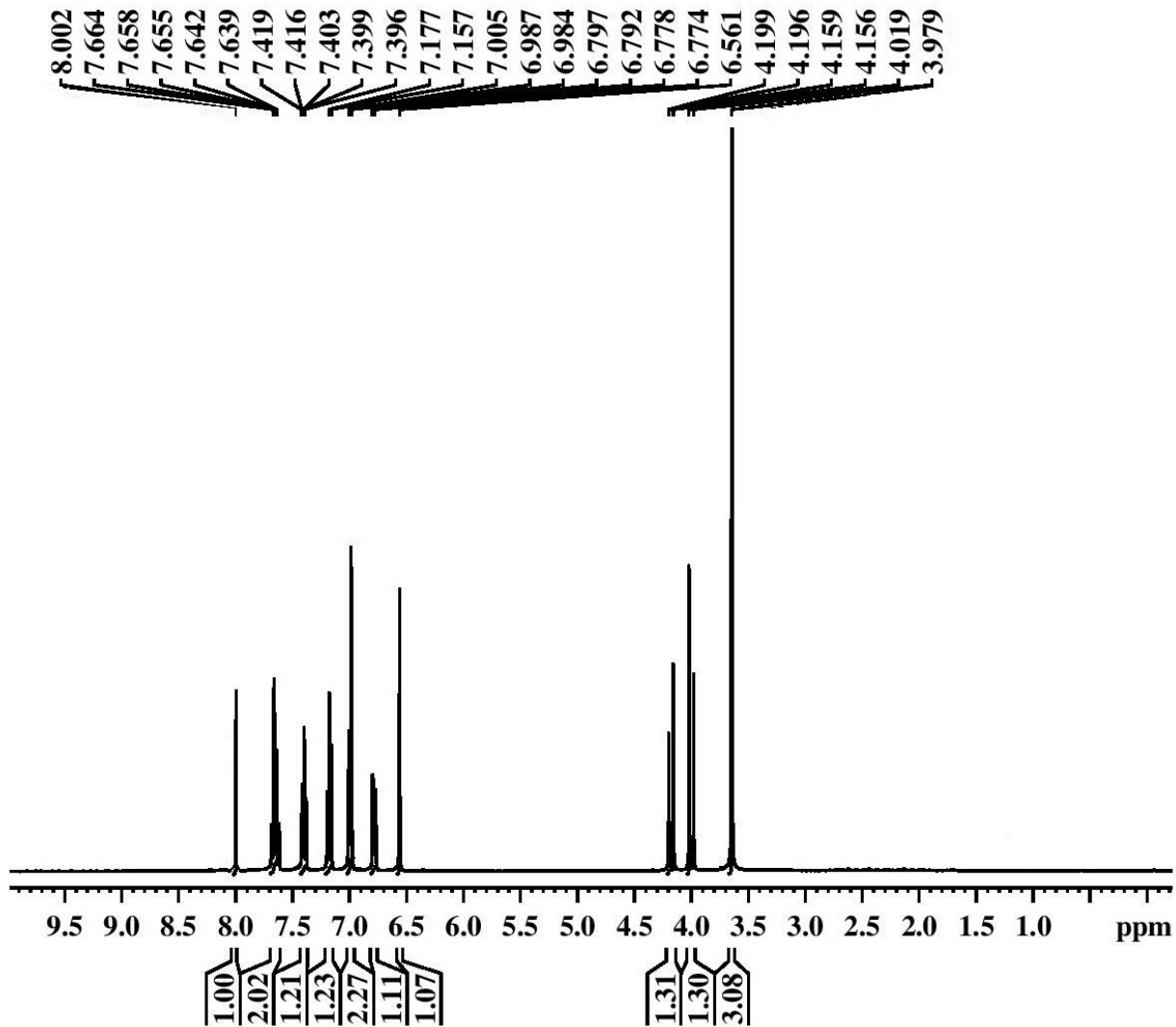
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Spectral characterization of compound 3b	SI-01
Spectral characterization of compound 3c	SI-02
Spectral characterization of compound 3d	SI-03
Spectral characterization of compound 3e	SI-04
Spectral characterization of compound 3f	SI-05
Spectral characterization of compound 3g	SI-06
Spectral characterization of compound 3h	SI-07
Spectral characterization of compound 3i	SI-08
Spectral characterization of compound 3j	SI-09
Spectral characterization of compound 3k	SI-10
Spectral characterization of compound 3l	SI-11
Spectral characterization of compound 3m	SI-12
Spectral characterization of compound 3n	SI-13
Spectral characterization of compound 3o	SI-14



3b





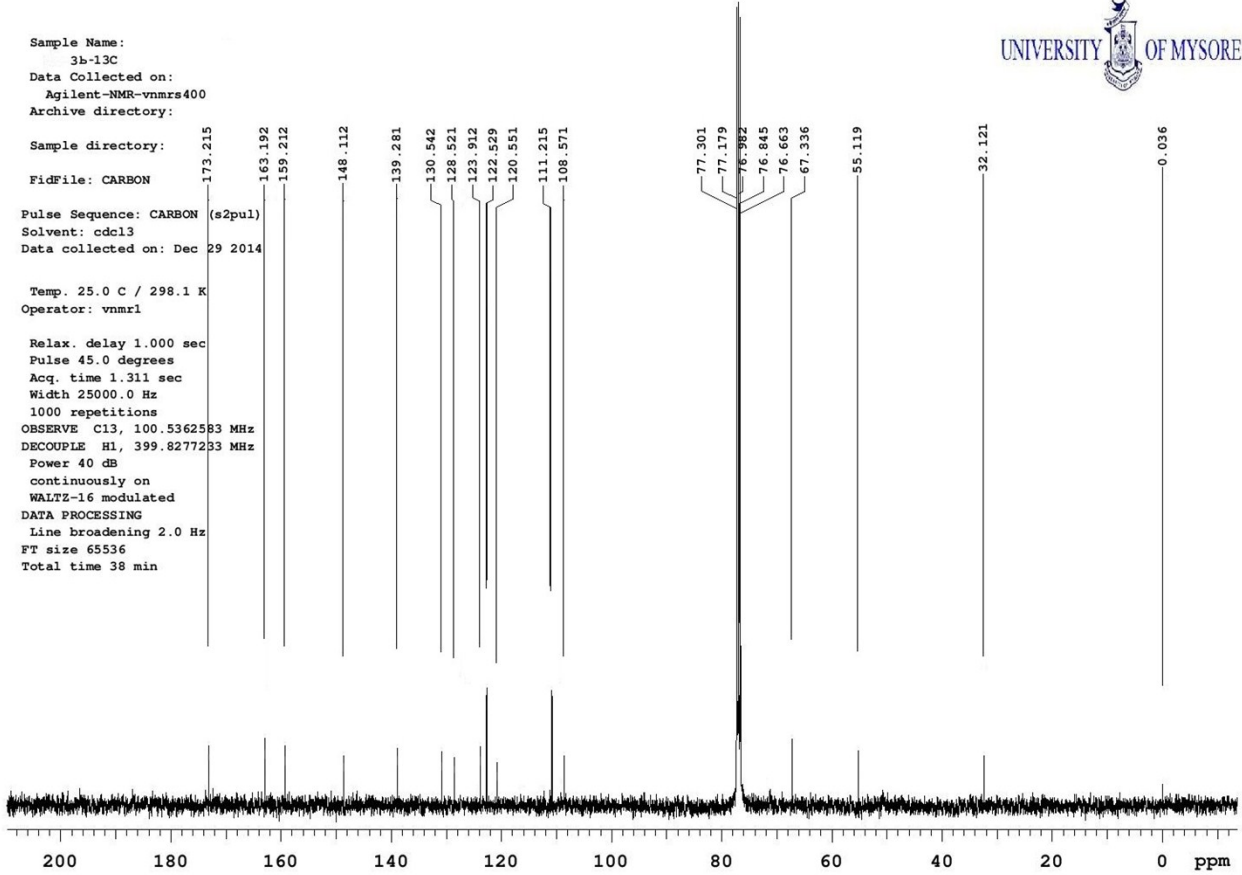
Sample Name:
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Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

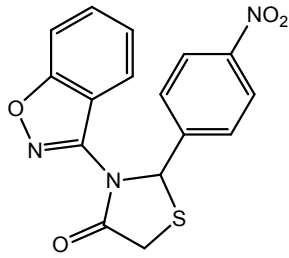
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Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Dec 29 2014

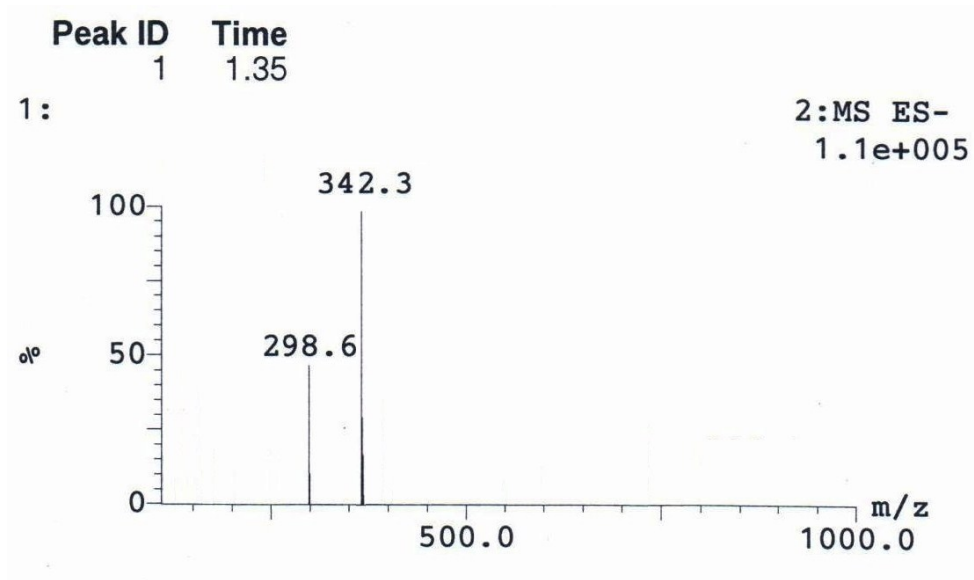
Temp. 25.0 C / 298.1 K
Operator: vnmr1

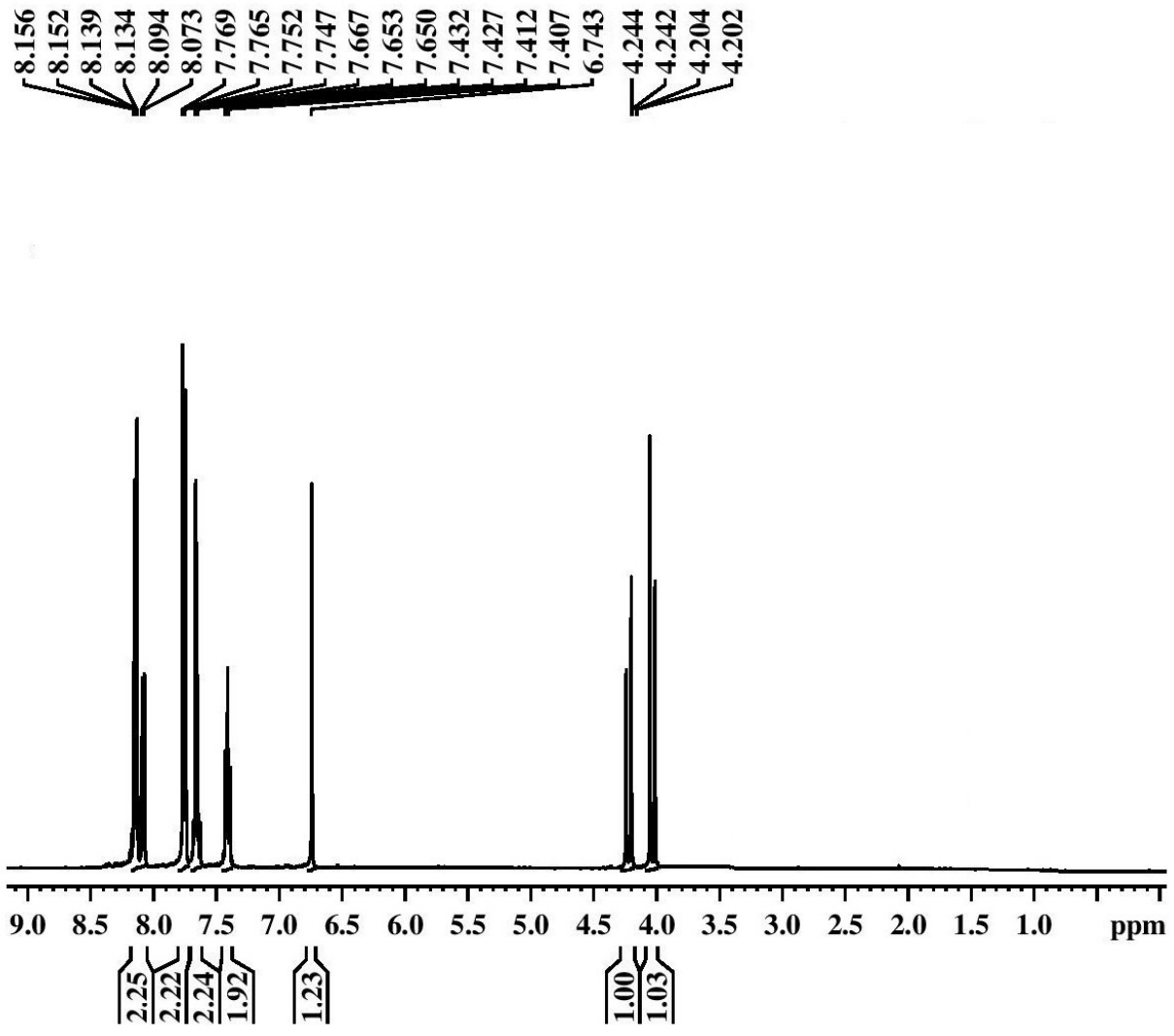
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





3c





Sample Name:
3c-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

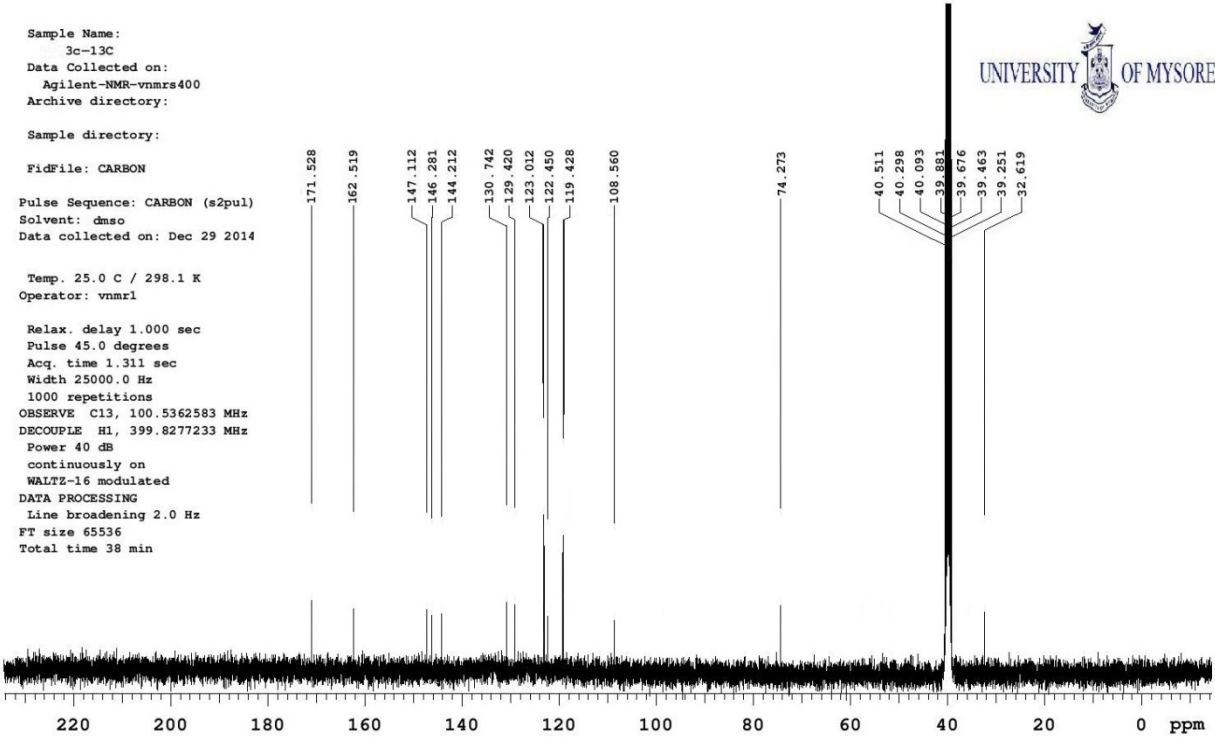
Sample directory:

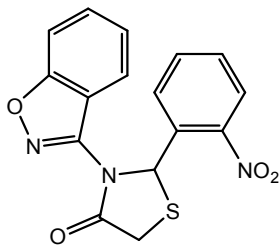
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: dmsd
Data collected on: Dec 29 2014

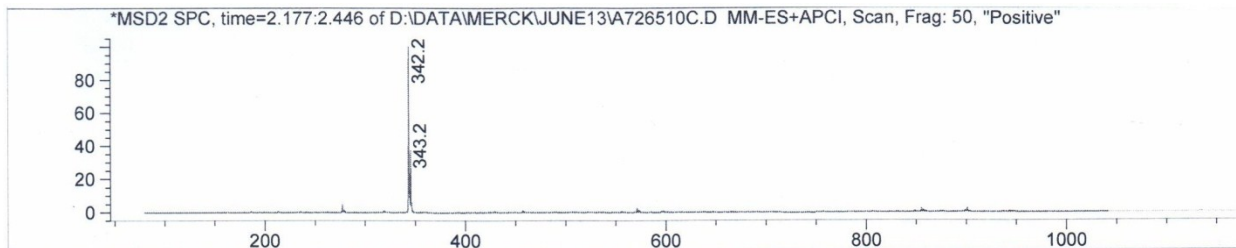
Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min

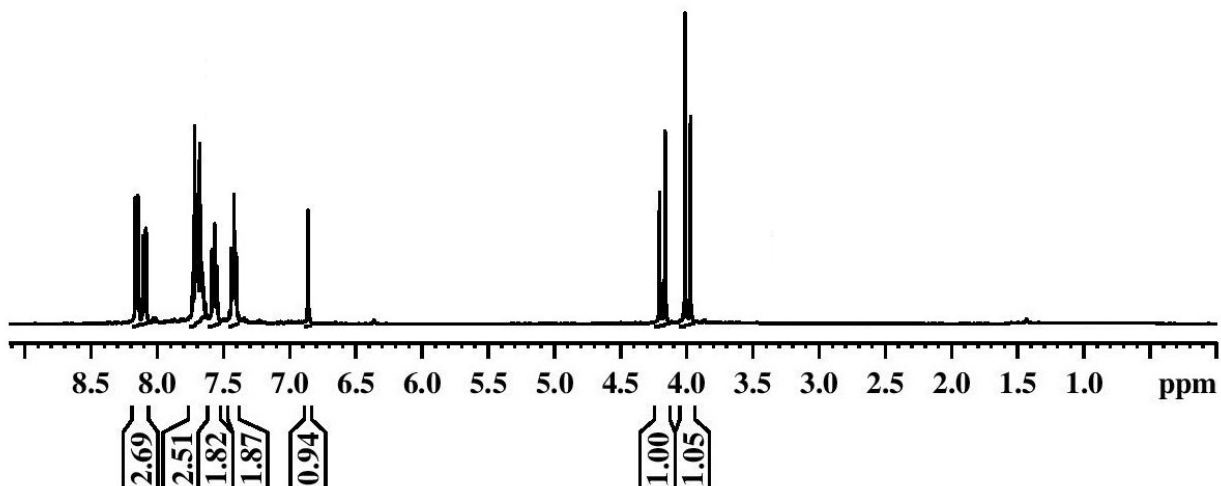




3d



8.168
8.166
8.150
8.147
8.145
8.107
8.088
8.086
7.716
7.711
7.697
7.694
7.674
7.672
7.666
7.664
7.663
7.660
7.567
7.421
6.862
4.207
4.204
4.166
4.163



Sample Name:
3d-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

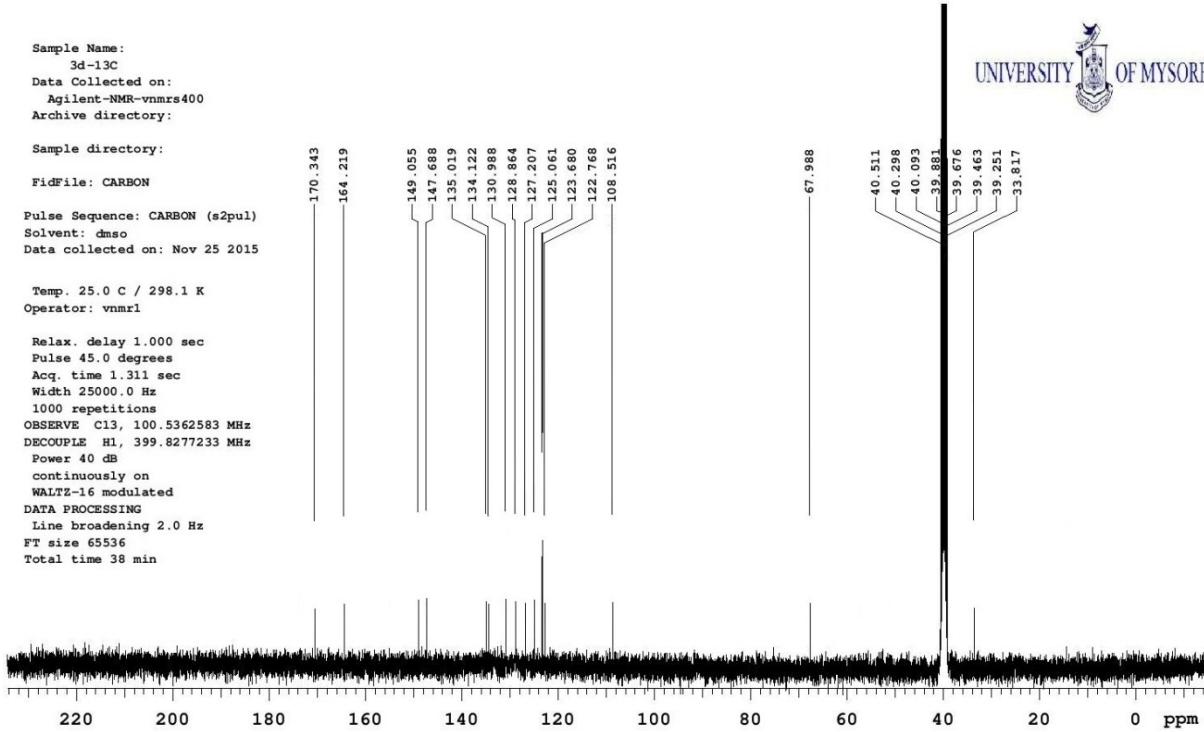
Sample directory:

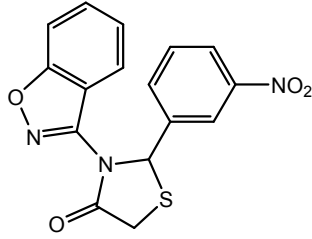
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: dmsd
Data collected on: Nov 25 2015

Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





3e

Method DEF_MS.M

Sample Name

Operator
Instrument

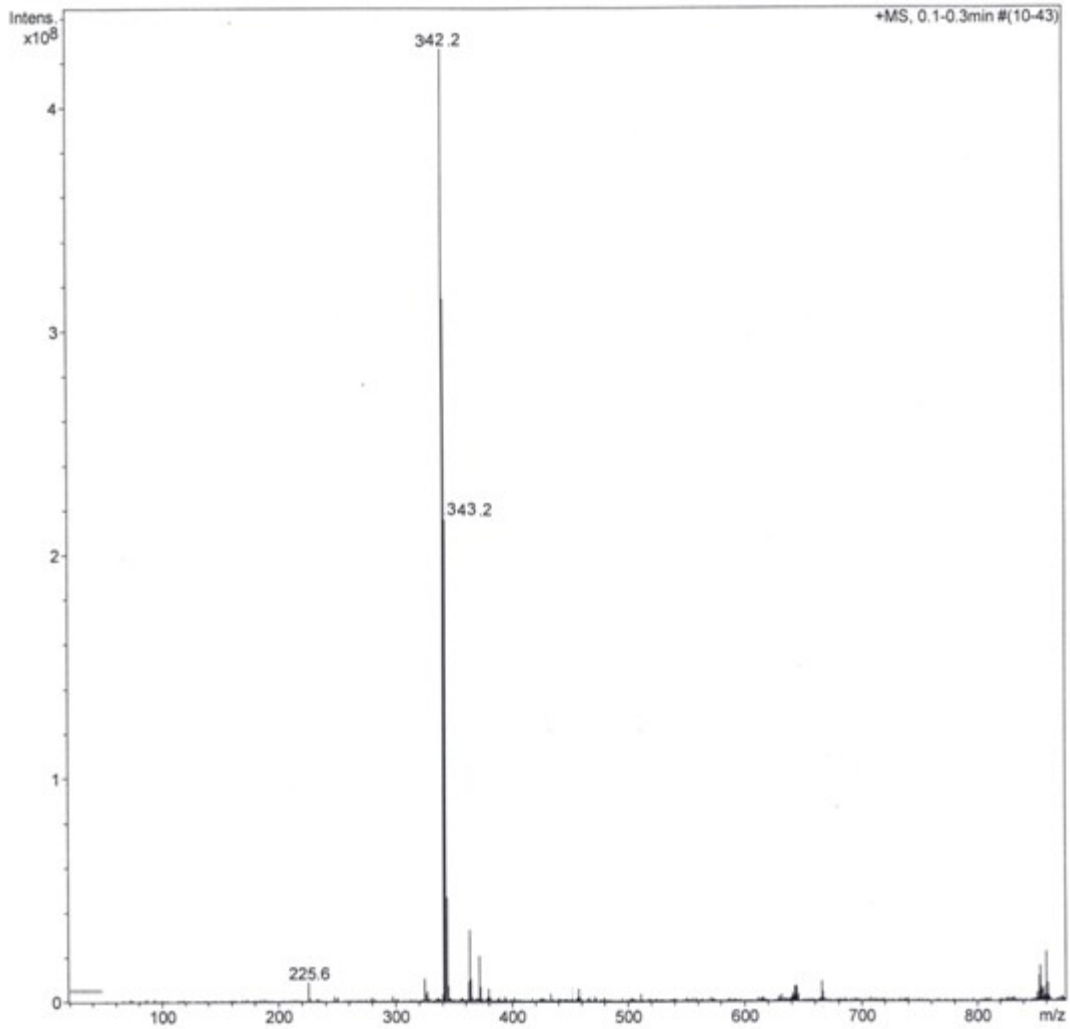
MBU
HCTUltra ETD II

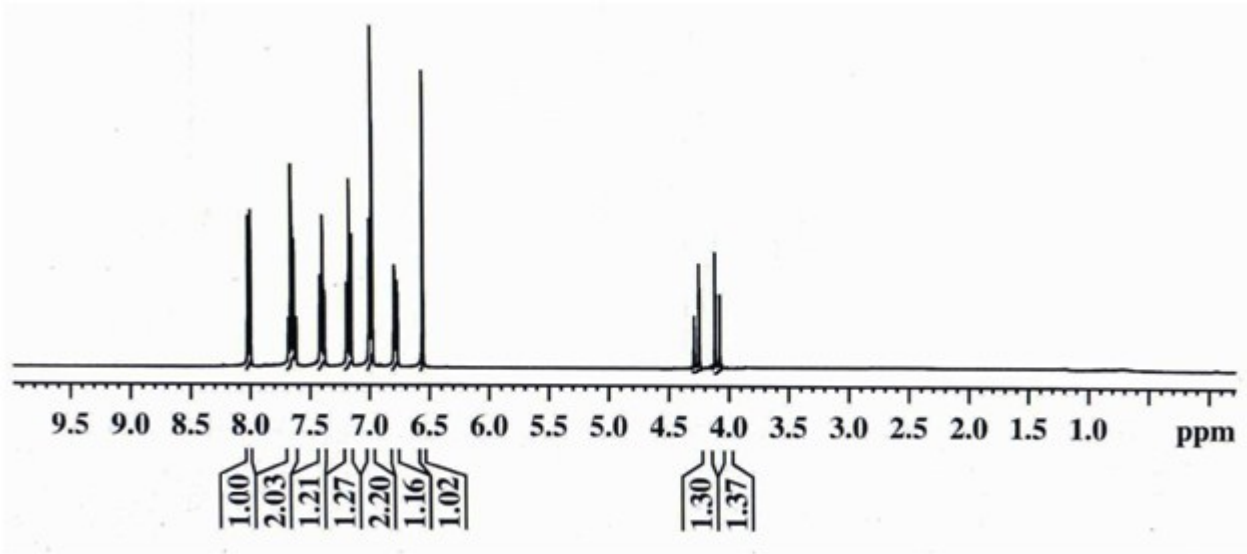
Acquisition Parameter

Ion Source Type ESI
Mass Range Mode 319 μ s
Capillary Exit 109.0 Volt
Accumulation Time Ultra Scan

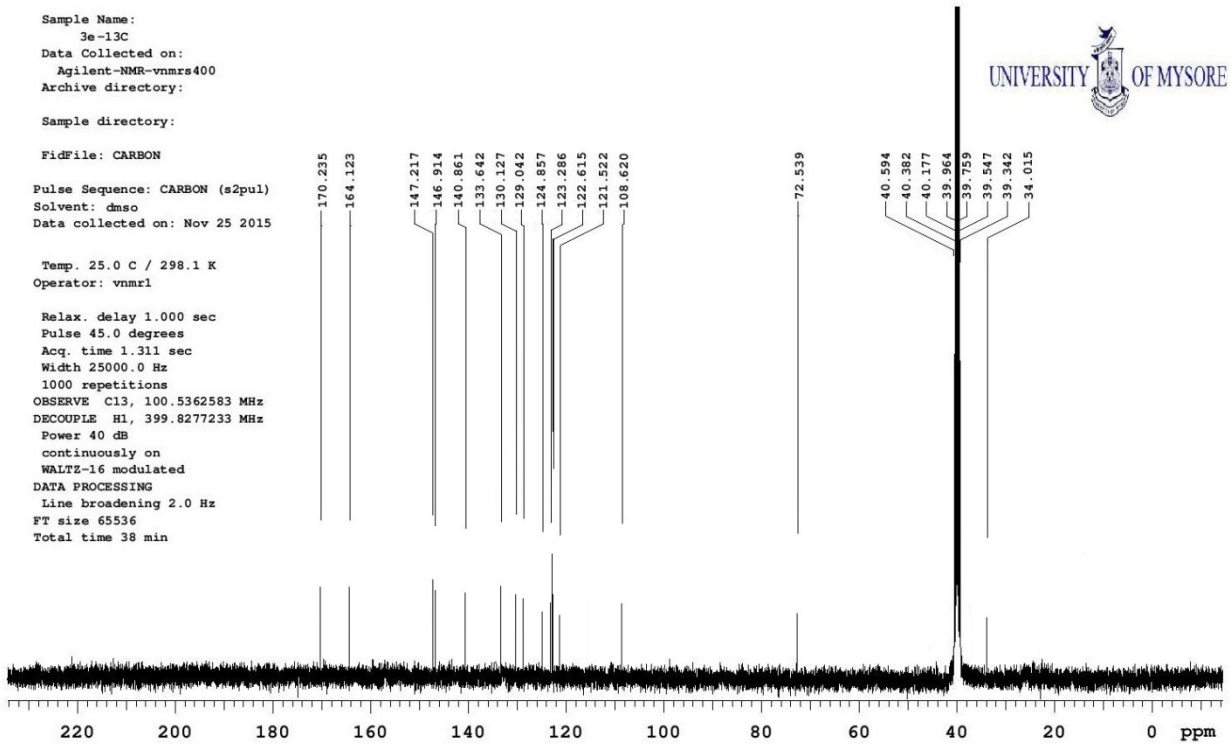
Ion Polarity Positive
Scan Begin 50 m/z
Skimmer 40.0 Volt
Averages 5 Spectra

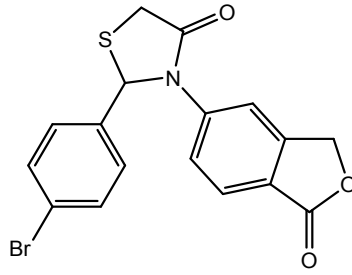
Alternating Ion Polarity off
Scan End 1300 m/z
Trap Drive 49.6
Auto MS/MS off



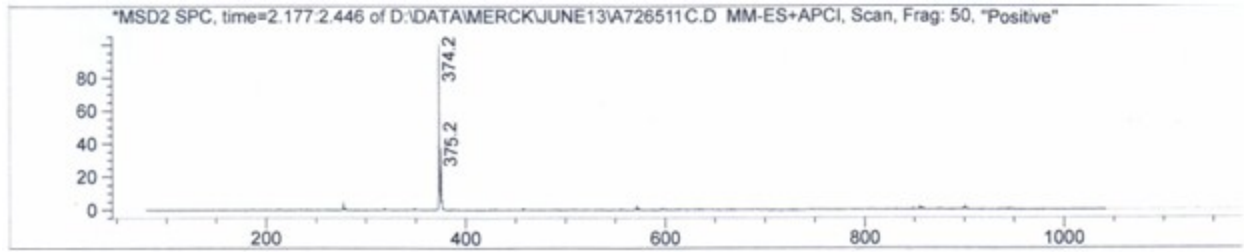


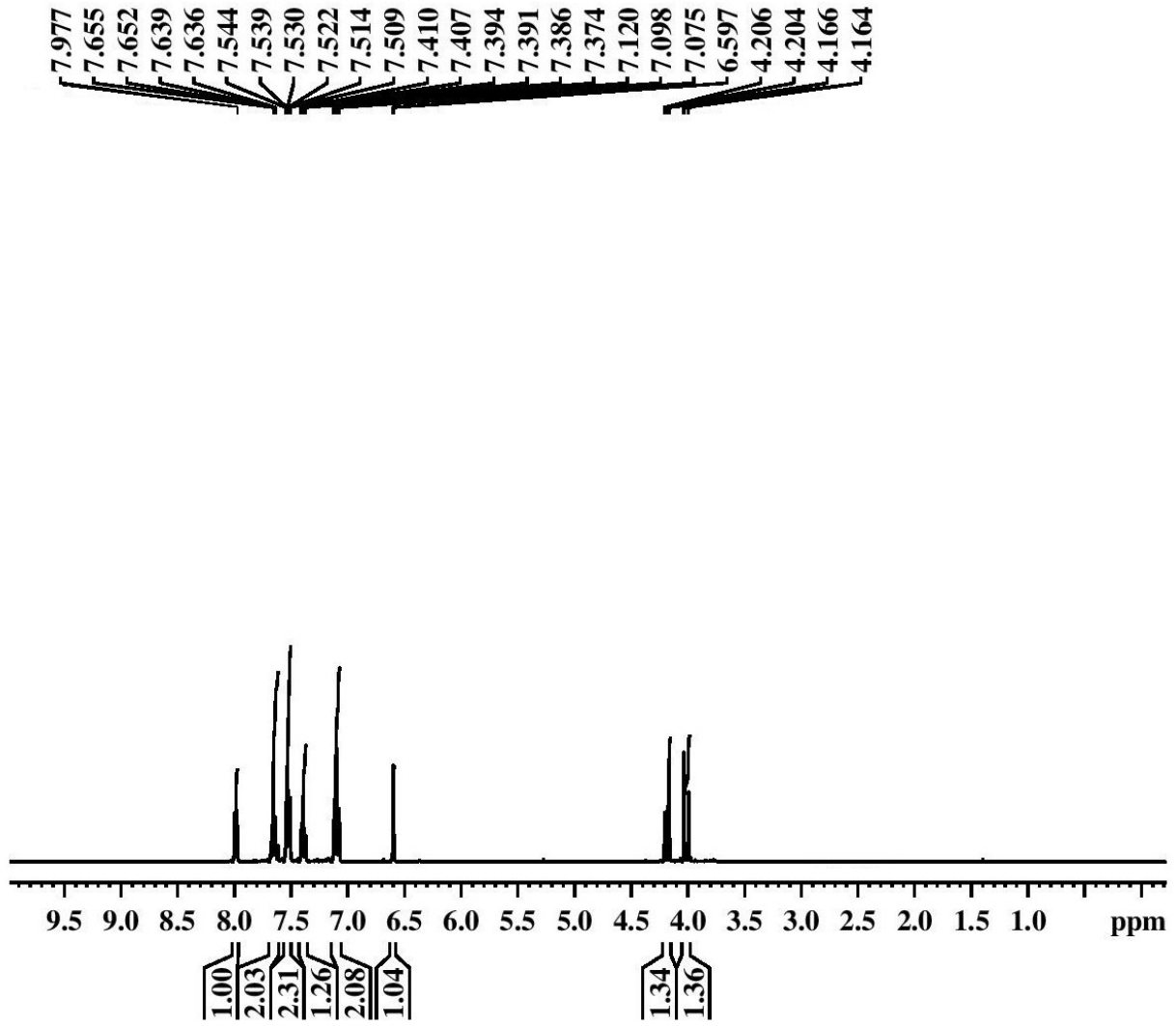
Sample Name:
 3e-13C
 Data Collected on:
 Agilent-NMR-vmrns400
 Archive directory:
 Sample directory:
 FidFile: CARBON
 Pulse Sequence: CARBON (s2pul)
 Solvent: dmsd
 Data collected on: Nov 25 2015
 Temp. 25.0 C / 298.1 K
 Operator: vnmrl
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.311 sec
 Width 25000.0 Hz
 1000 repetitions
 OBSERVE C13, 100.5362583 MHz
 DECOUPLE H1, 399.8277233 MHz
 Power 40 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 2.0 Hz
 FT size 65536
 Total time 38 min

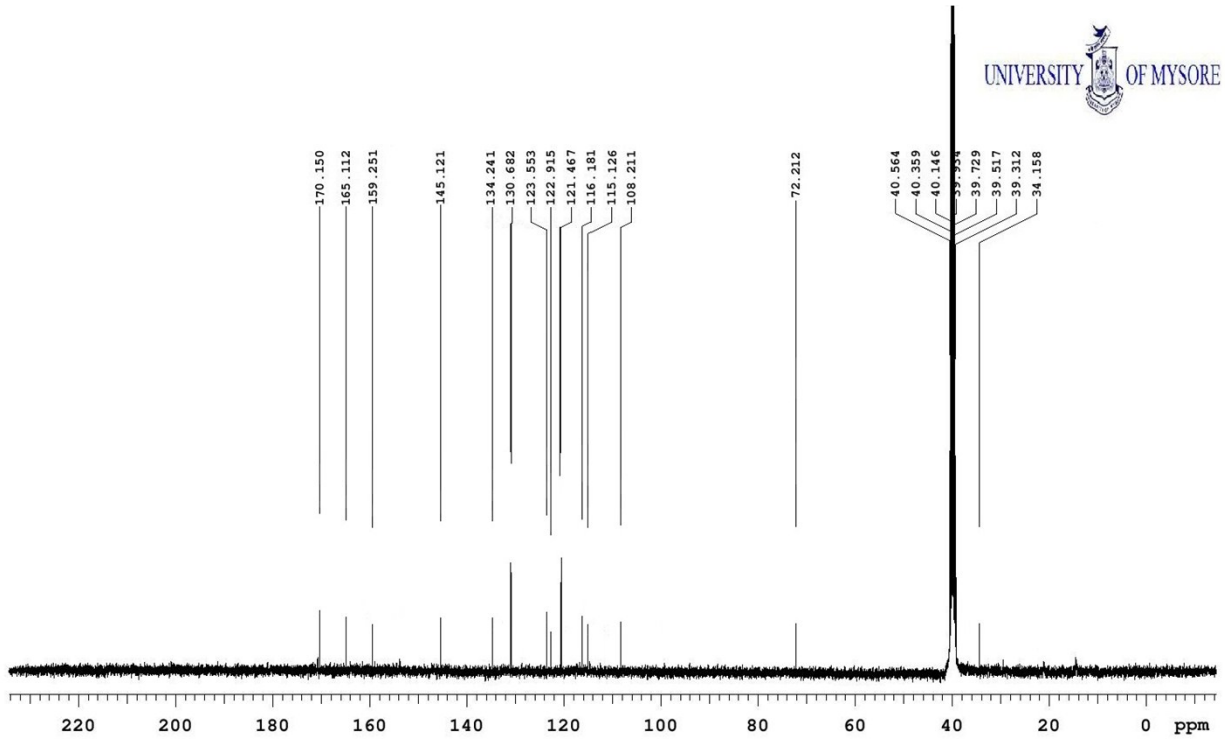




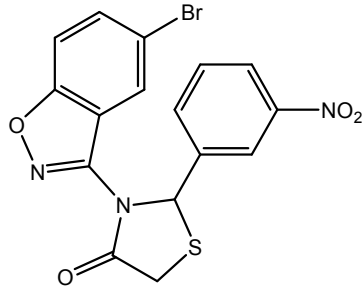
3f



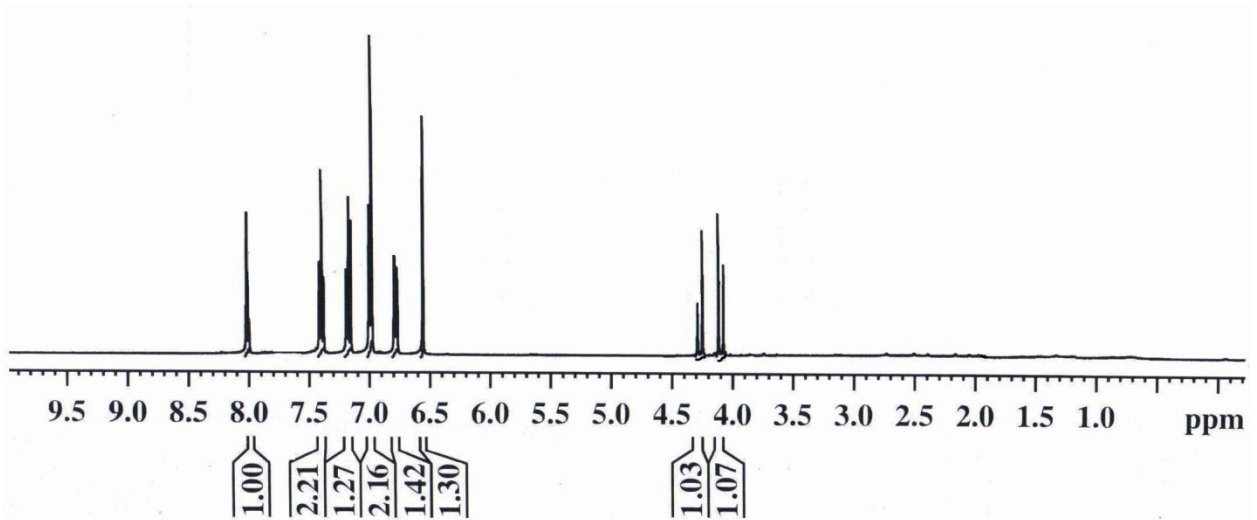
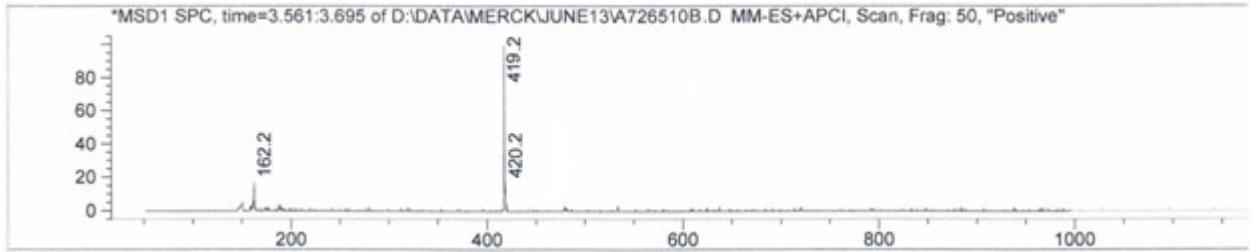


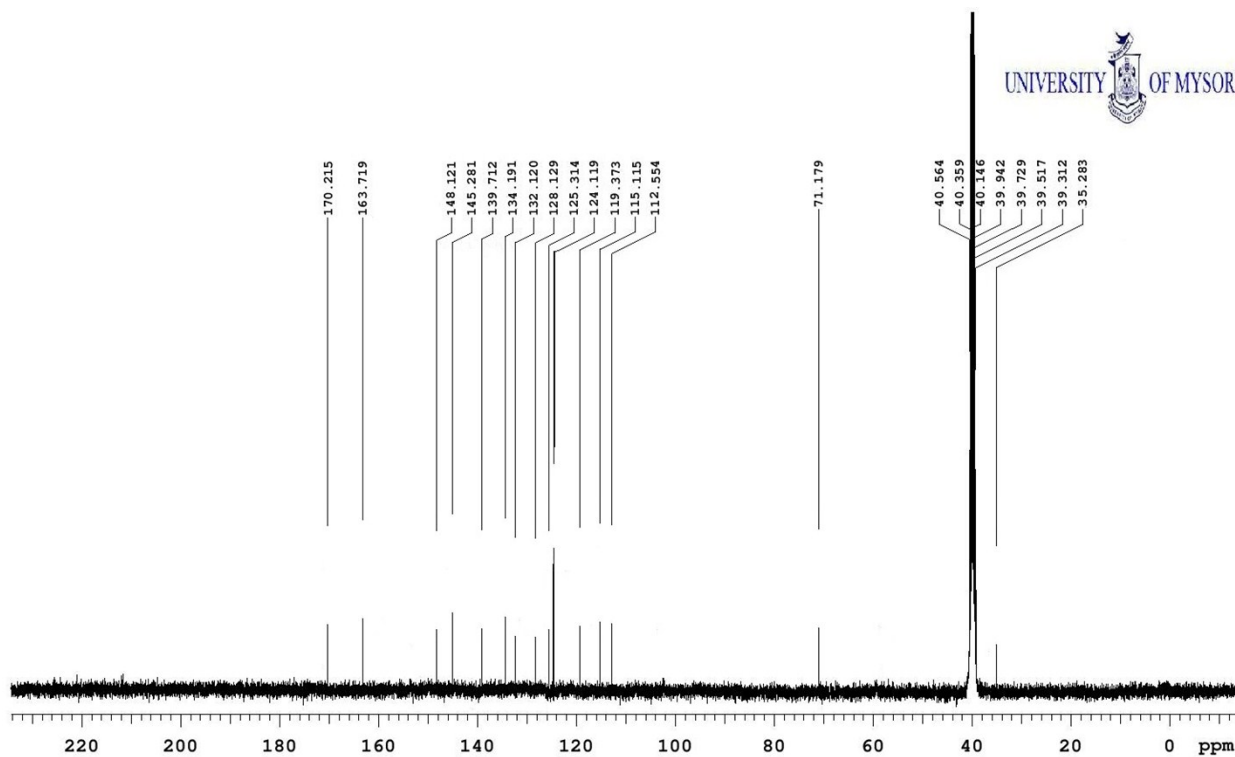


<p>PULSE SEQUENCE Relax. delay 1.000 sec Pulse 45.0 degrees Acq. time 1.311 sec Width 25000.0 Hz 3000 repetitions</p>	<p>OBSERVE C13, 100.5367359 DECOUPLE H1, 399.8296225 Power 40 dB continuously on WALTZ-16 modulated</p>	<p>DATA PROCESSING Line broadening 0.5 Hz FT size 65536 Total time 115 minutes</p>	<p>1402373-3F-13C Solvent: dmsd Ambient temperature Operator: vnmr1 File: 1402373-3F-13C VNMR5-400 "Agilent-NMR"</p>
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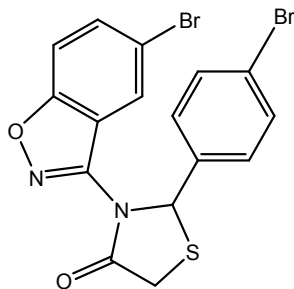


3g

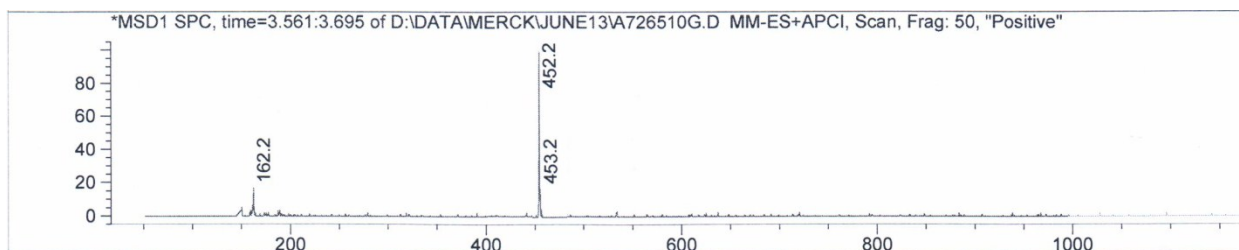




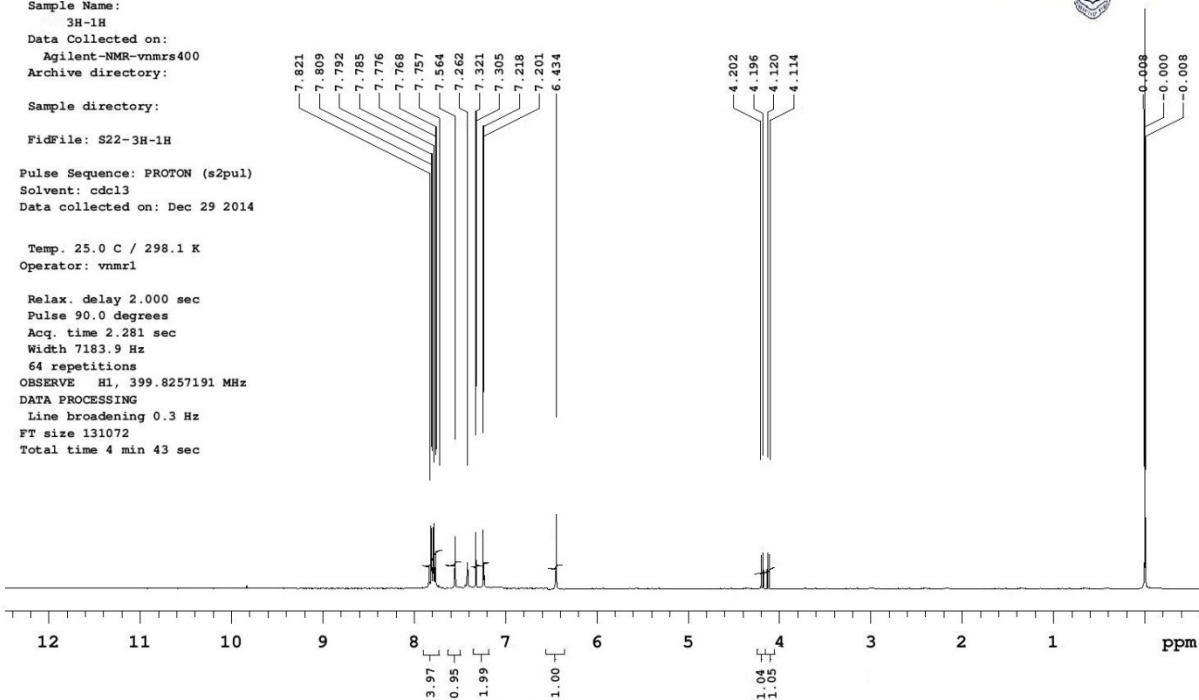
<p>PULSE SEQUENCE Relax. delay 1.000 sec Pulse 45.0 degrees Acq. time 1.311 sec Width 25000.0 Hz 1650 repetitions</p>	<p>OBSERVE C13, 100.5367359 DECOUPLE H1, 399.8296225 Power 40 dB continuously on WALTZ-16 modulated</p>	<p>DATA PROCESSING Line broadening 0.5 Hz FT size 65536 Total time 63 minutes</p>	<p>1402372-3G-13C Solvent: dmsc Ambient temperature Operator: vnmr1 File: 1402372-3G-13C VNMRS-400 "Agilent-NMR"</p>
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3h



Sample Name:
3H-1H
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:
Sample directory:
FidFile: S22-3H-1H
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Dec 29 2014
Temp. 25.0 C / 298.1 K
Operator: vnmrl
Relax. delay 2.000 sec
Pulse 90.0 degrees
Acq. time 2.281 sec
Width 7183.9 Hz
64 repetitions
OBSERVE H1, 399.8257191 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 131072
Total time 4 min 43 sec



Sample Name:
3h-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

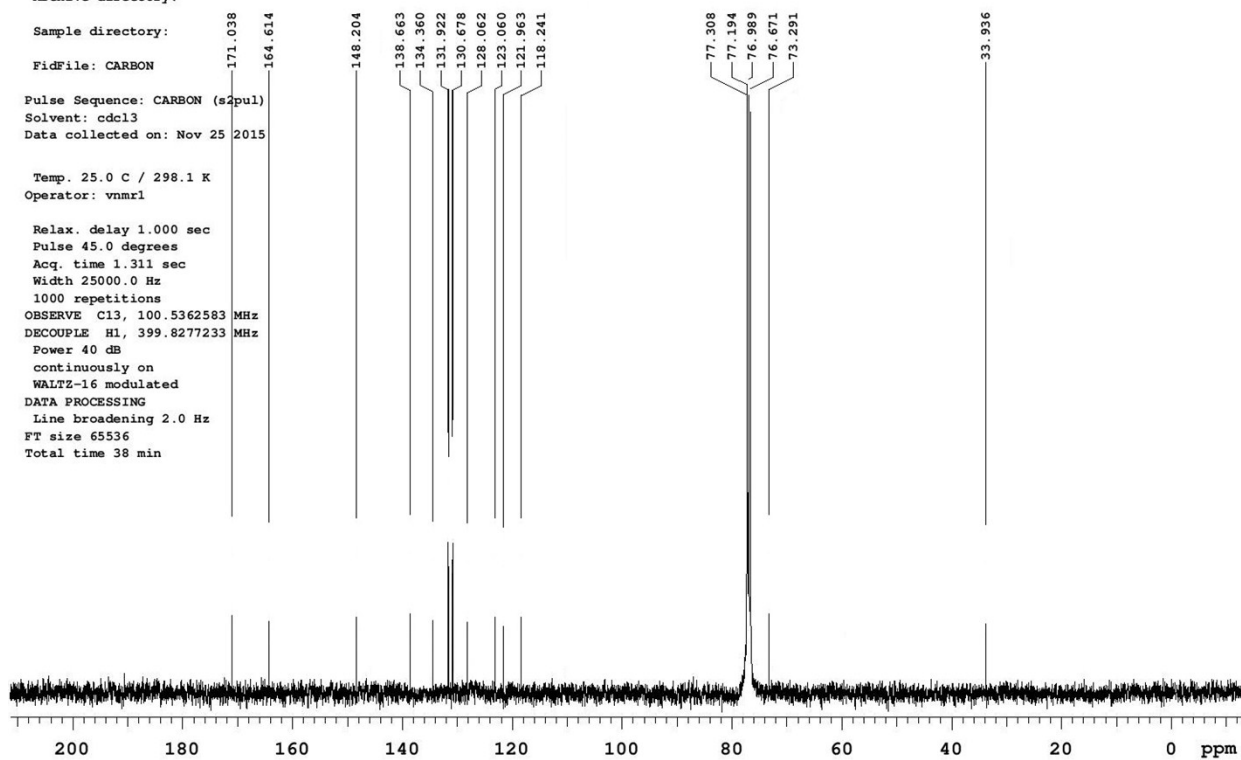
Sample directory:

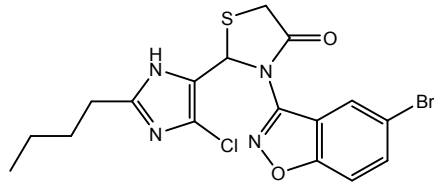
FidFile: CARBON

Pulse Sequence: CARBON (s4pul)
Solvent: cdcl3
Data collected on: Nov 25 2015

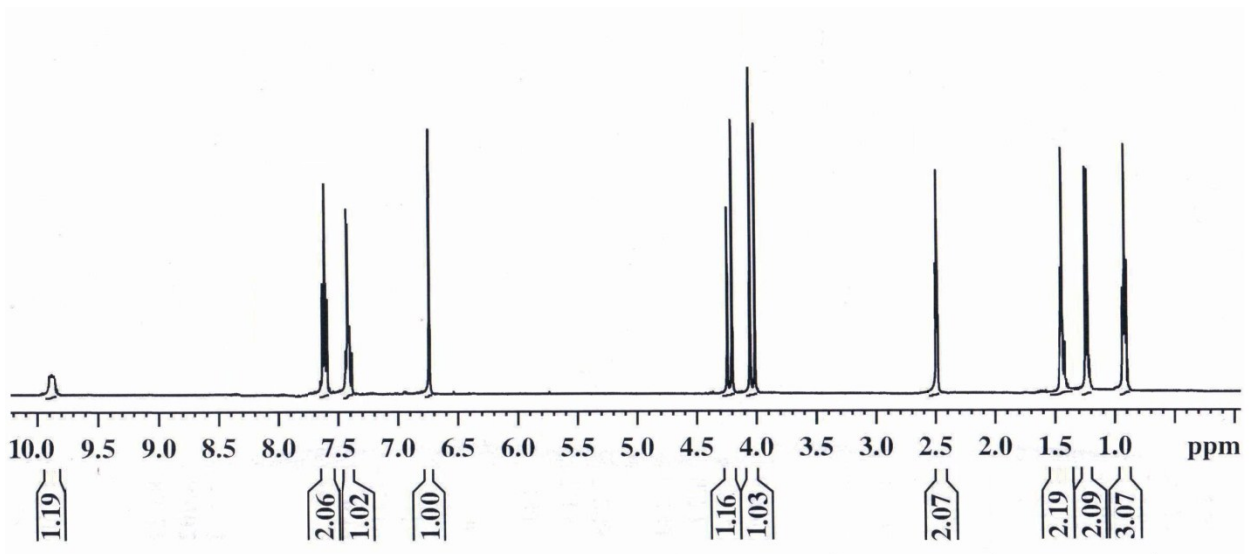
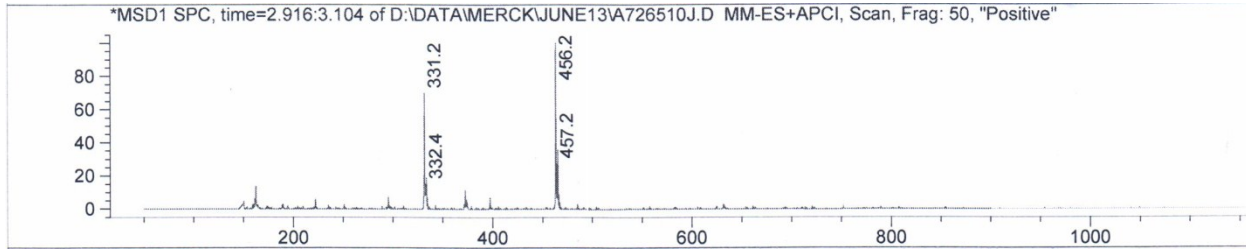
Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





3i



Sample Name:
3i-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

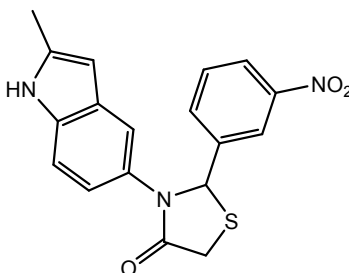
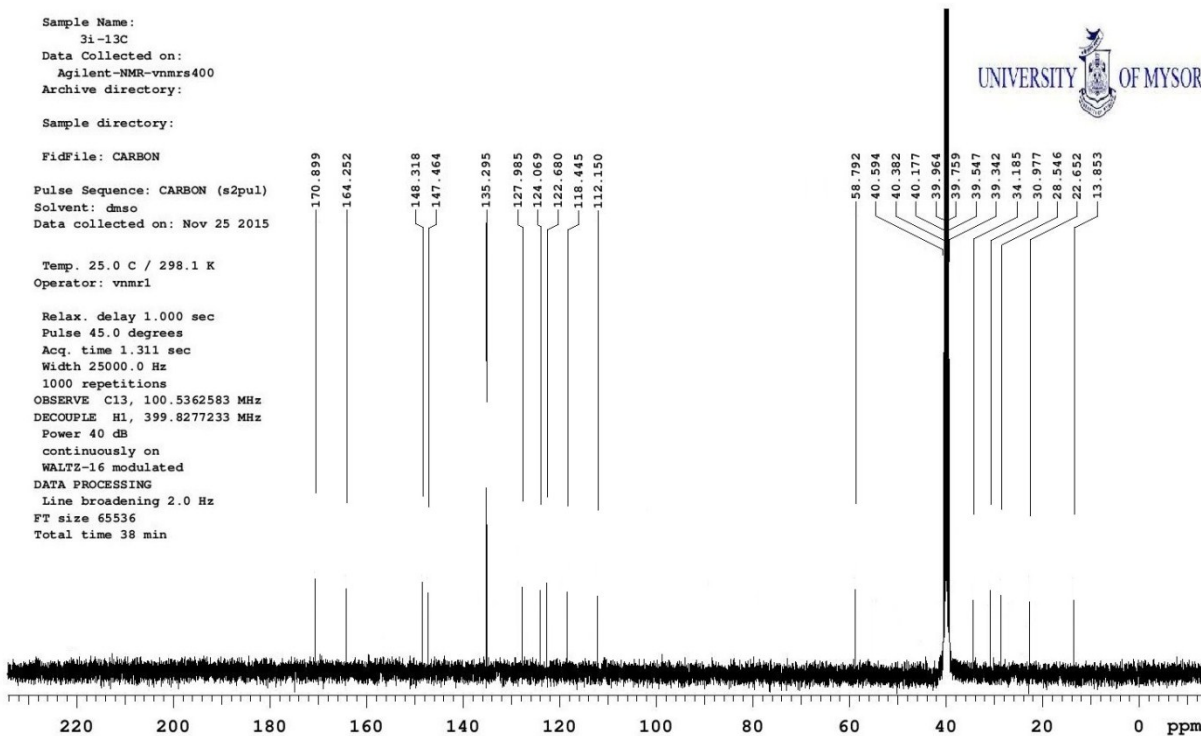
Sample directory:

FidFile: CARBON

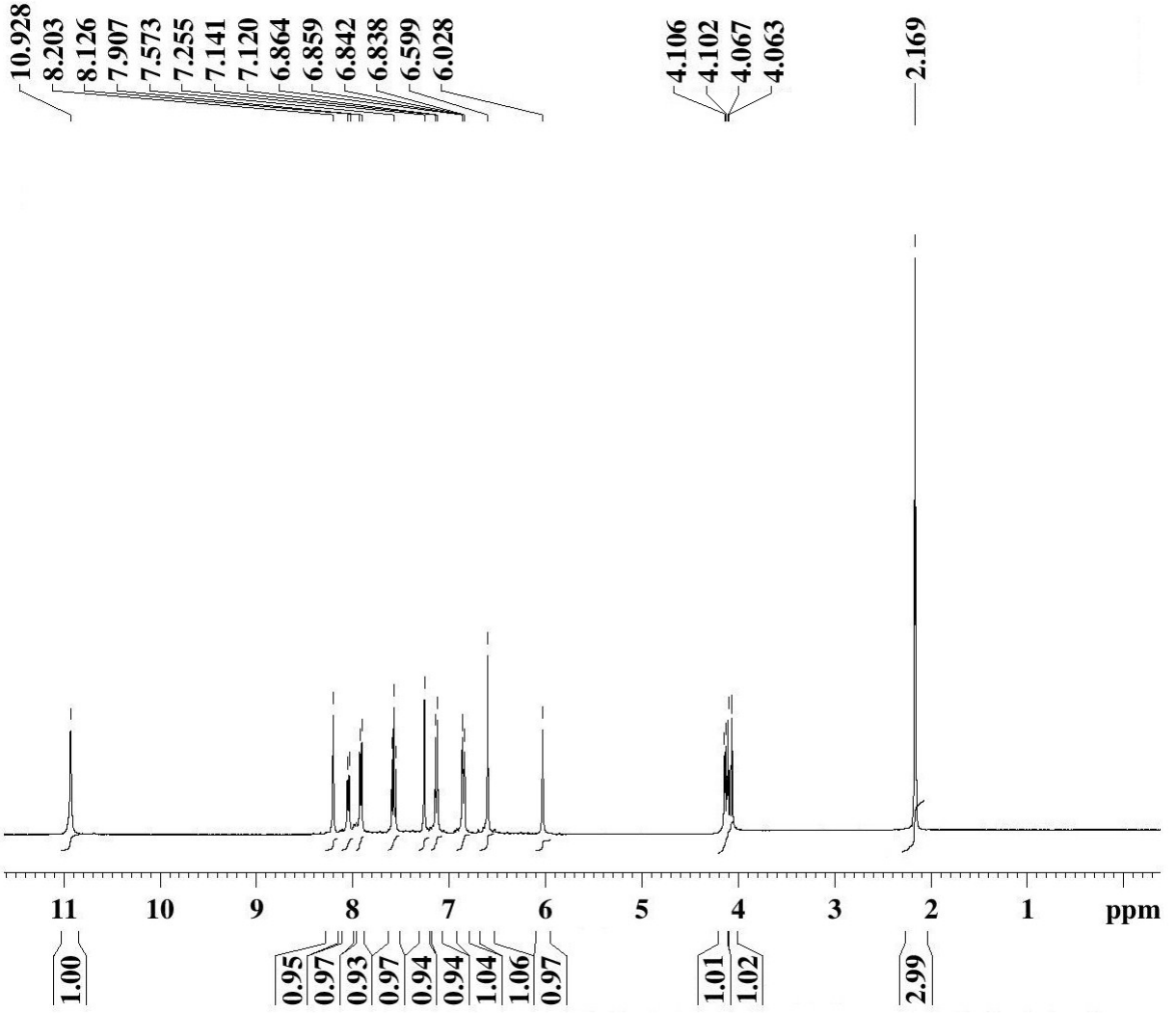
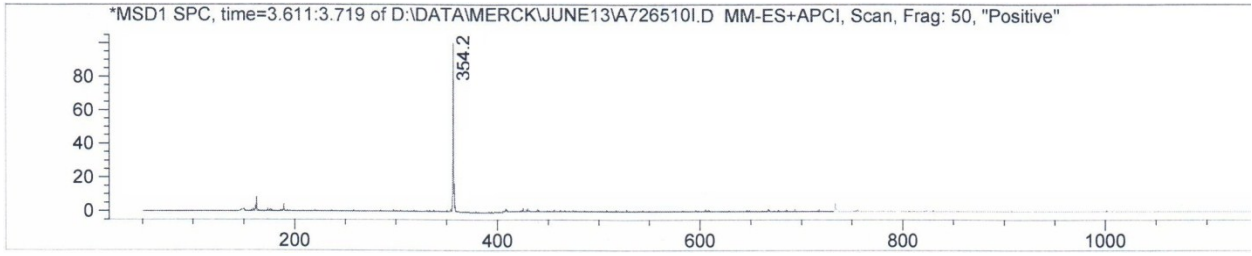
Pulse Sequence: CARBON (s2pul)
Solvent: dmsd
Data collected on: Nov 25 2015

Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min



3j



Sample Name:
3j -13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

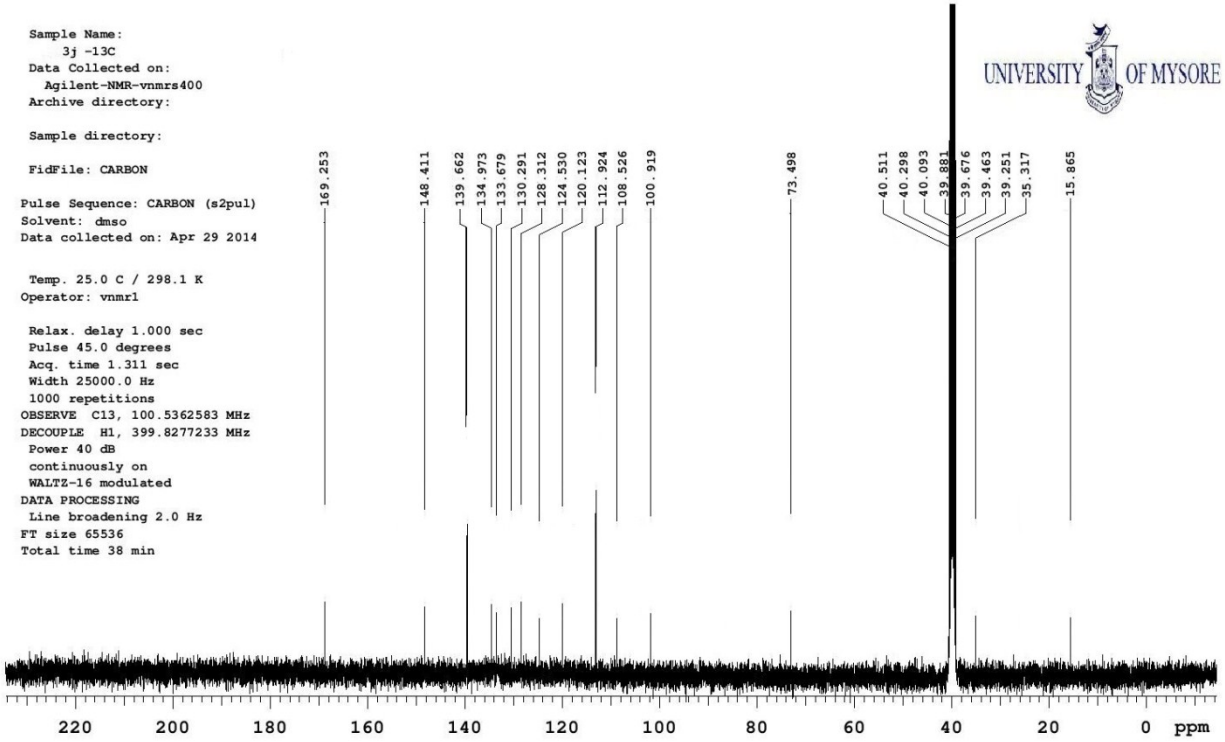
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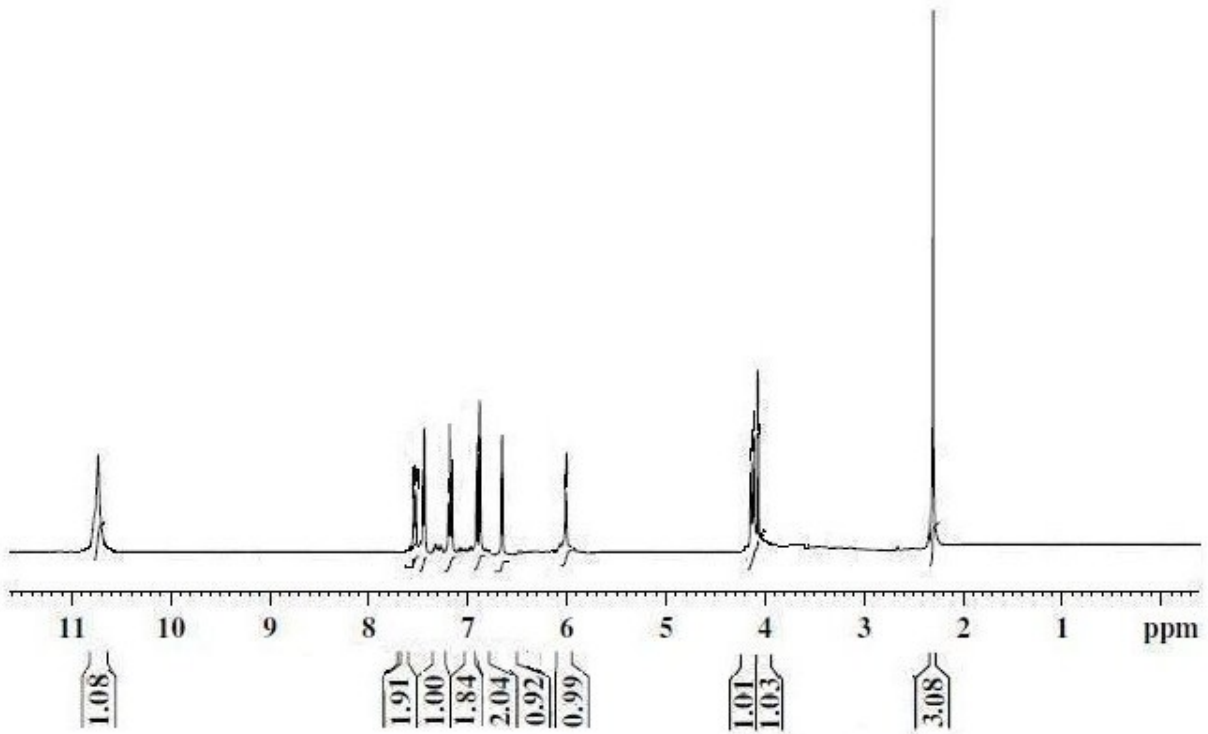
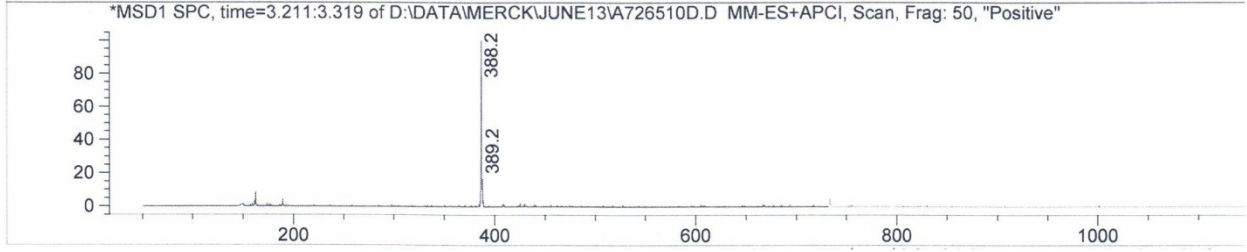
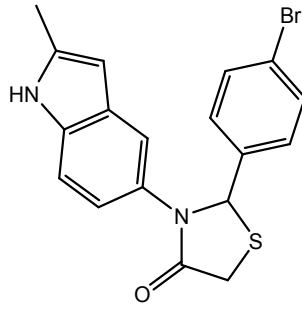
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: dmsc
Data collected on: Apr 29 2014

Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





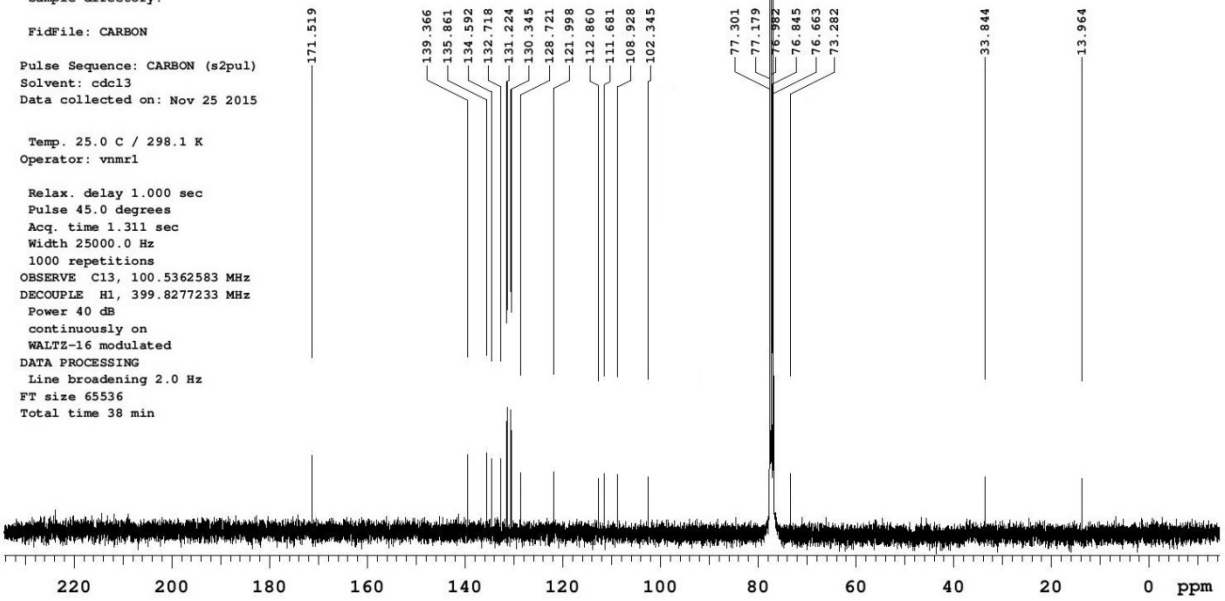
Sample Name:
3k-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

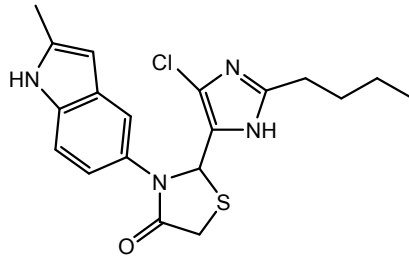
Sample directory:
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Nov 25 2015

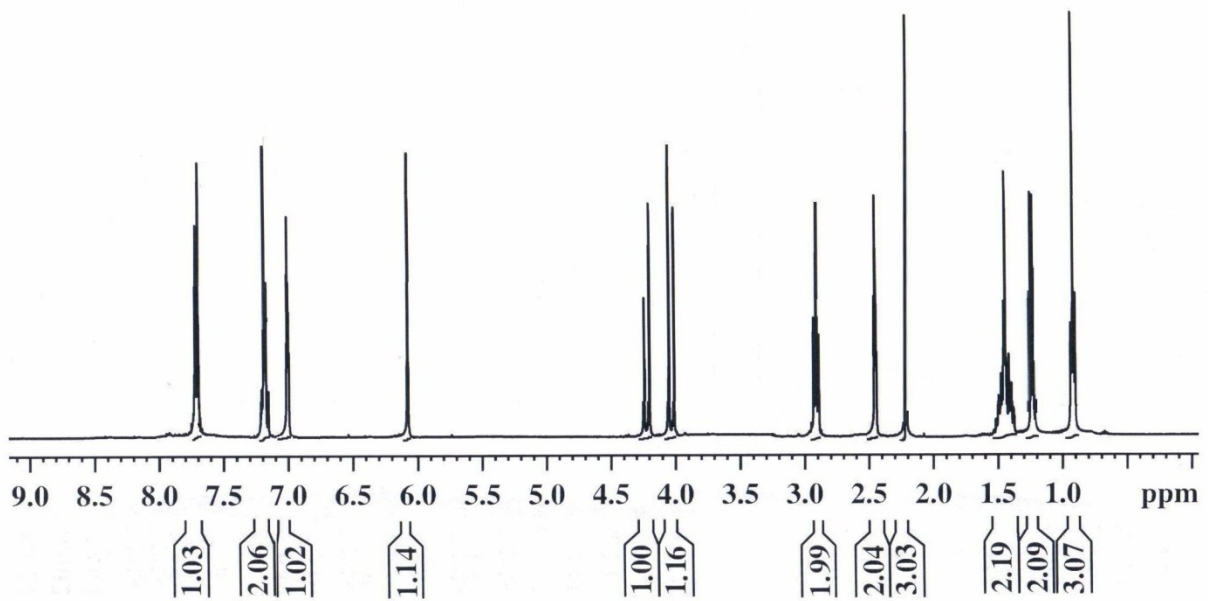
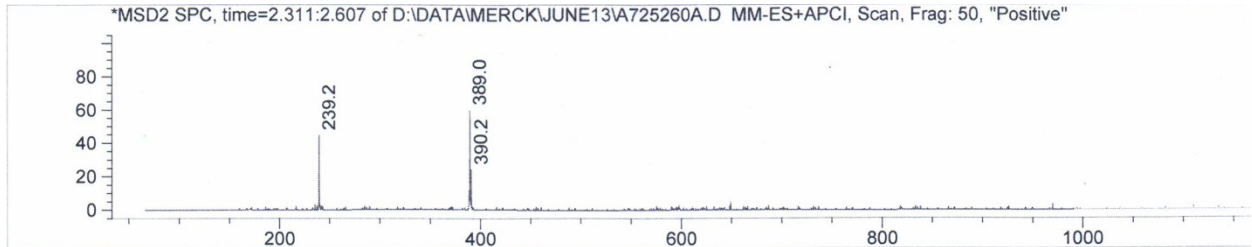
Temp. 25.0 C / 298.1 K
Operator: vnmrl

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





3I



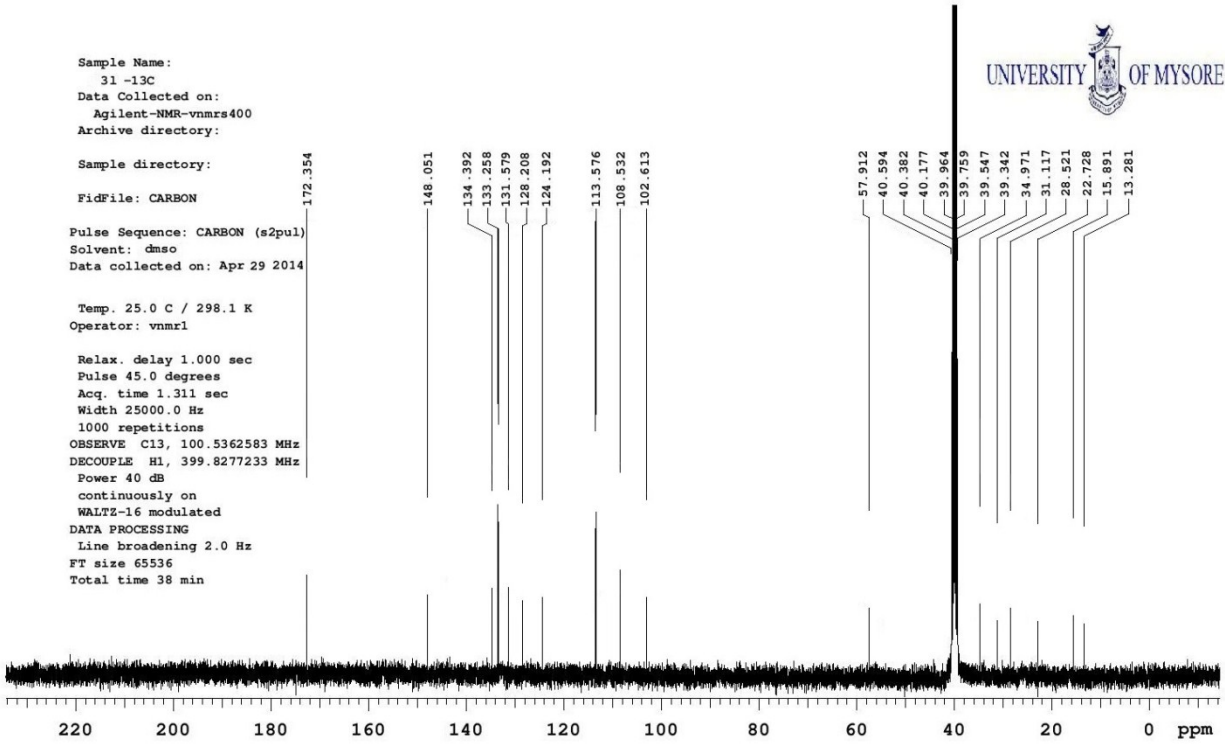
Sample Name:
31 -13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

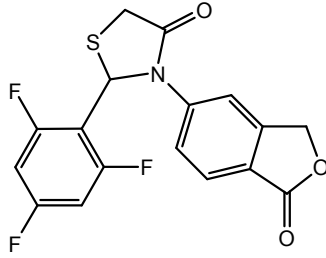
Sample directory:
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: dmsc
Data collected on: Apr 29 2014

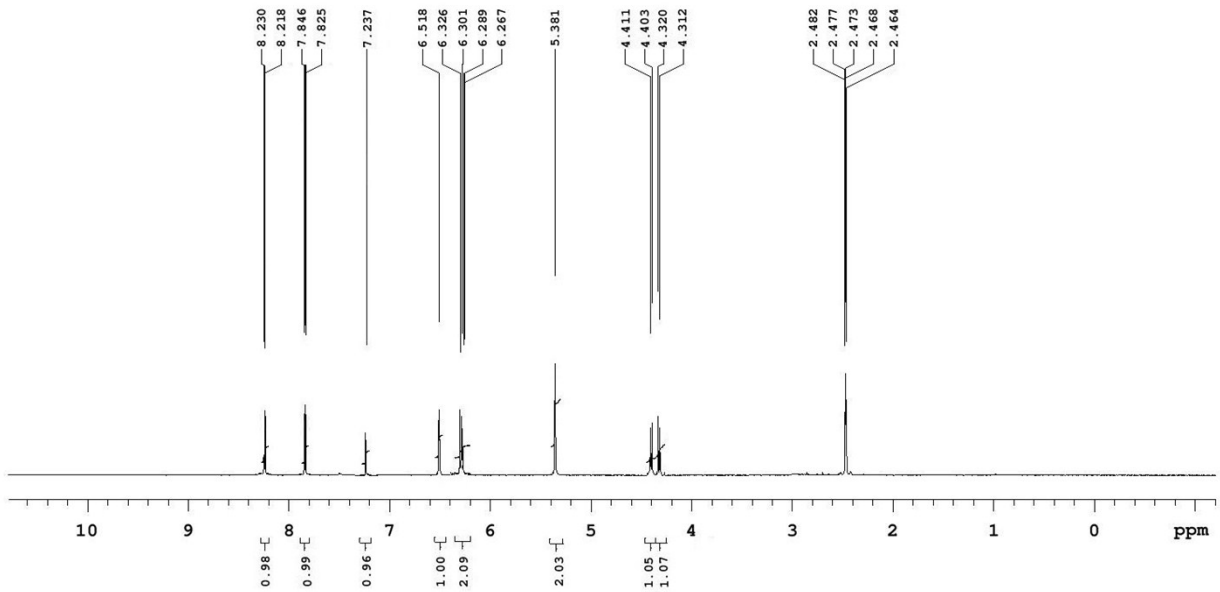
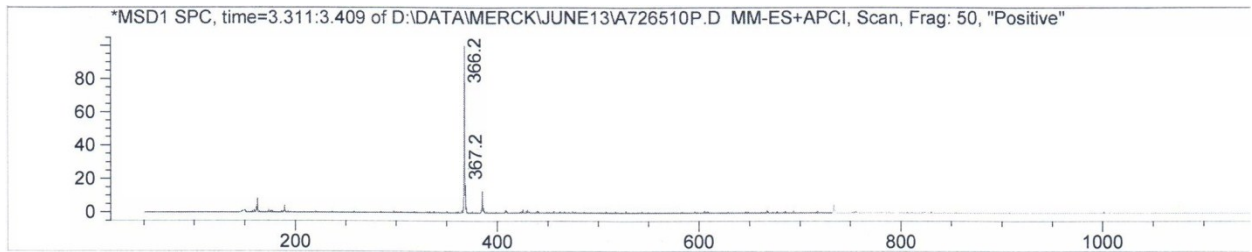
Temp. 25.0 C / 298.1 K
Operator: vnmr1

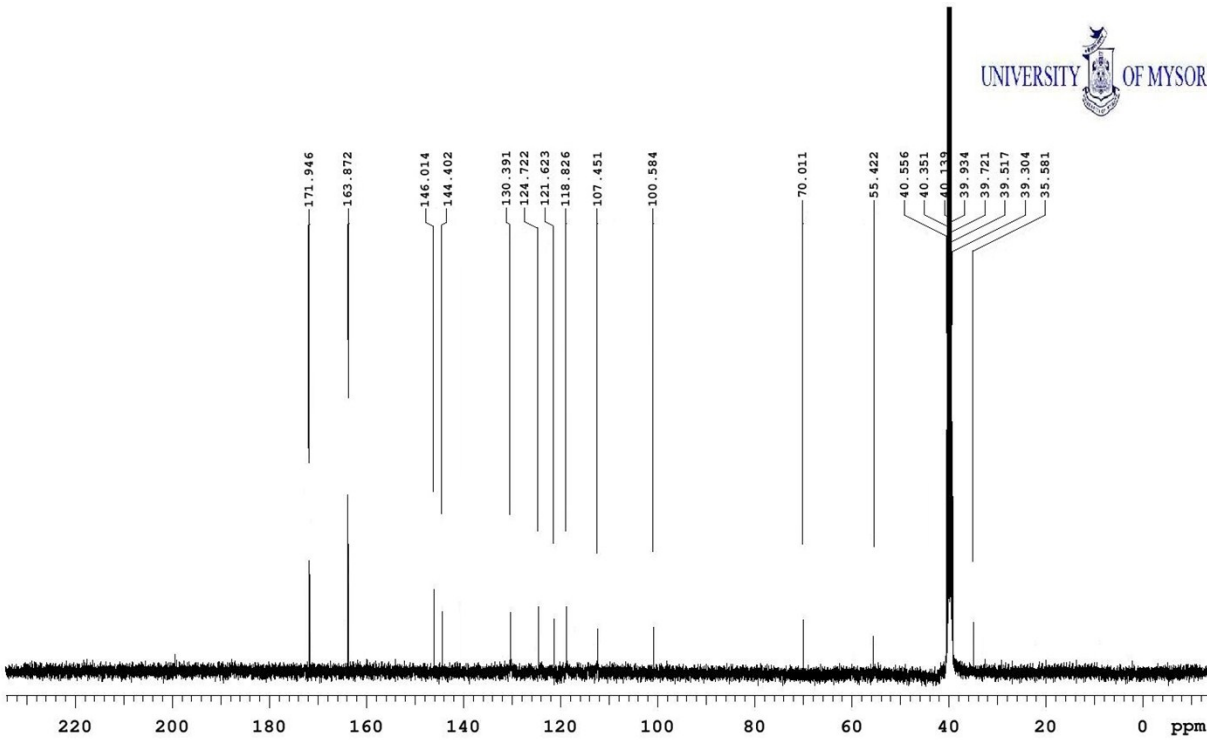
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min



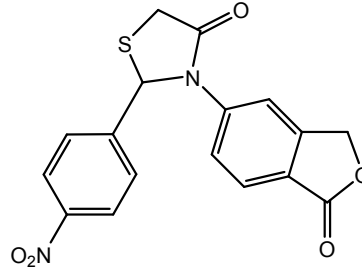


3m

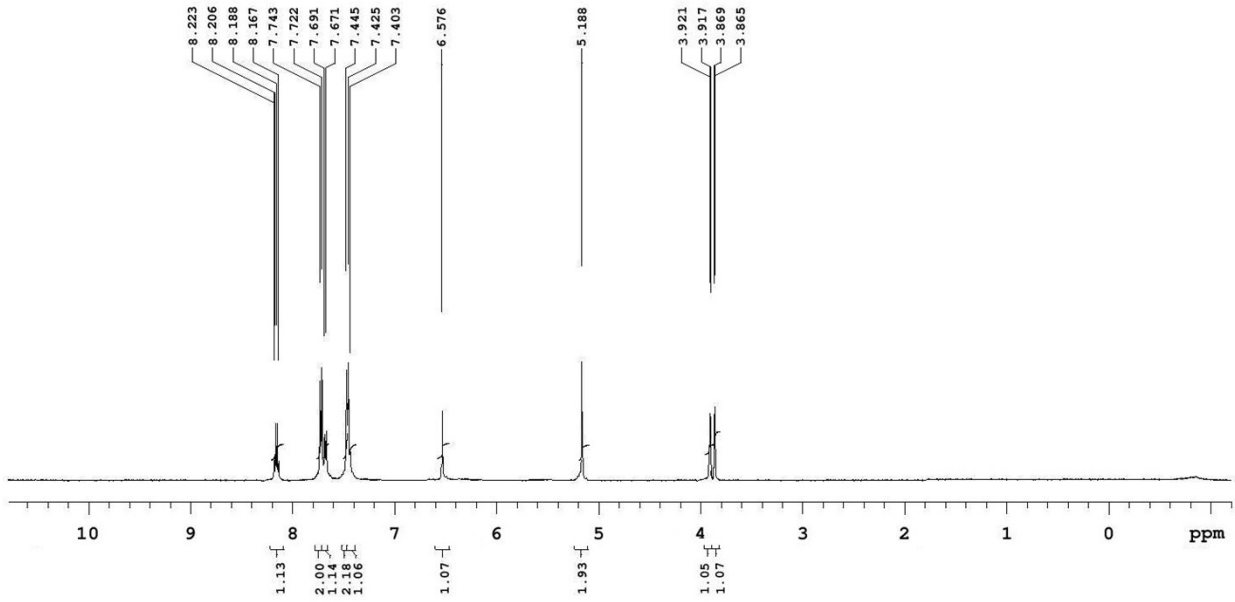
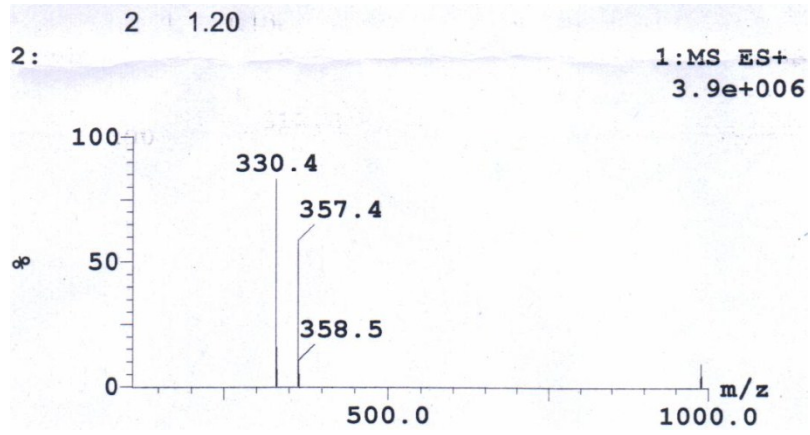




<p>PULSE SEQUENCE Relax. delay 1.000 sec Pulse 45.0 degrees Acq. time 1.311 sec Width 25000.0 Hz 2282 repetitions</p>	<p>OBSERVE C13, 100.5367359 DECOUPLE H1, 399.8296225 Power 40 dB continuously on WALTZ-16 modulated</p>	<p>DATA PROCESSING Line broadening 0.5 Hz FT size 65536 Total time 87 minutes</p>	<p>1402374-3M-13C Solvent: dms0 Ambient temperature Operator: vnmr1 VNMR5-400 "Agilent-NMR"</p>
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3n



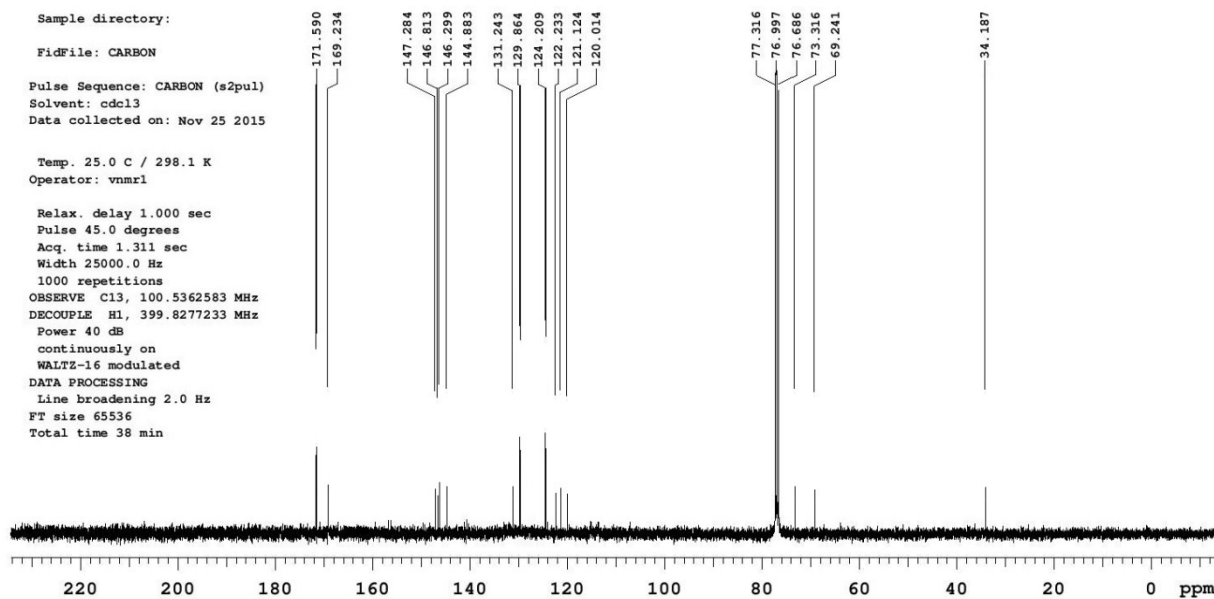
Sample Name:
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Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

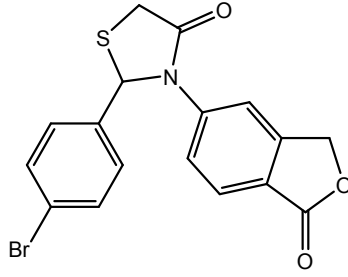
Sample directory:
FidFile: CARBON

Pulse Sequence: CARBON (s2pu1)
Solvent: cdcl3
Data collected on: Nov 25 2015

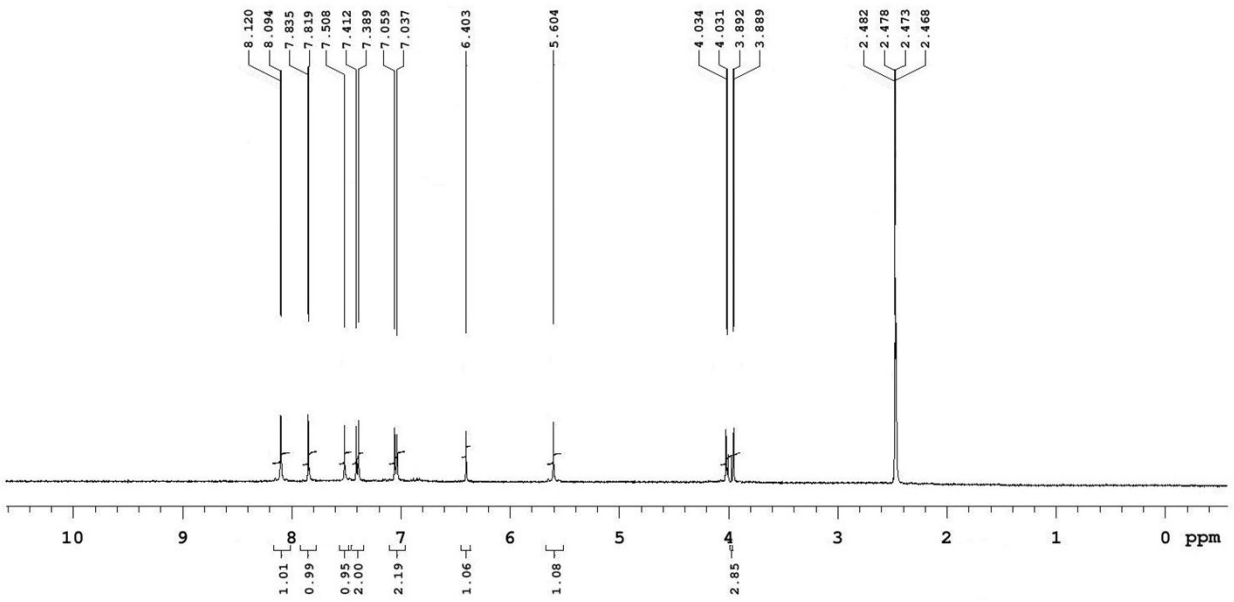
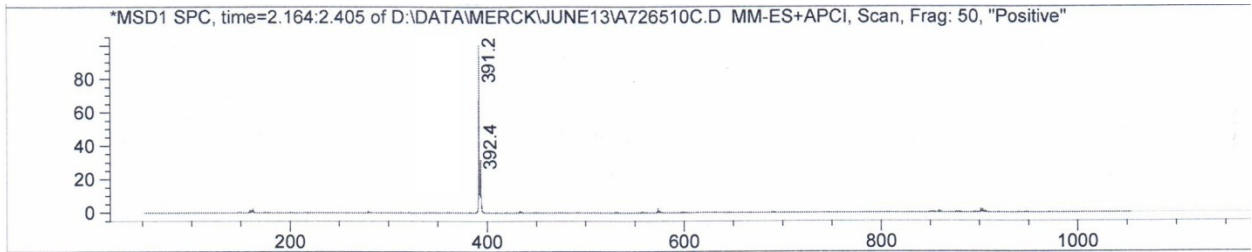
Temp. 25.0 C / 298.1 K
Operator: vnmr1

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min





3o



Sample Name:
3o-13C
Data Collected on:
Agilent-NMR-vnmrs400
Archive directory:

Sample directory:

FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Nov 25 2015

Temp. 25.0 C / 298.1 K
Operator: vnmrl

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
1000 repetitions
OBSERVE C13, 100.5362583 MHz
DECOUPLE H1, 399.8277233 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 38 min

