

One-pot synthesis of 1,8 dioxo decahydroacridines and 1,8 dioxo-octahydroxanthene derivatives using novel biopolymer Xanthan Perchloric Acid (XPA) catalyst

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Research Center, New Arts, Commerce and Science College, Parner, 414302, India

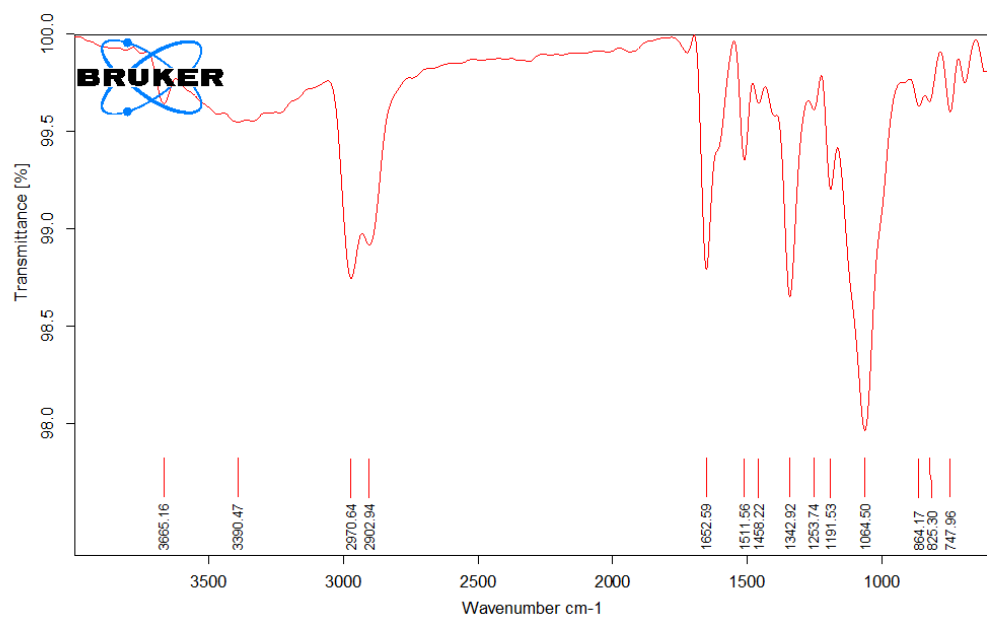
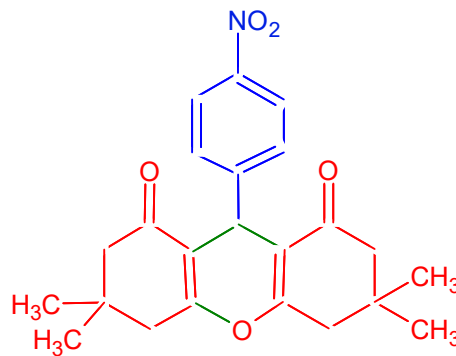
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3A1- 3,3,6,6-tetramethyl-9-(4-nitrophenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione



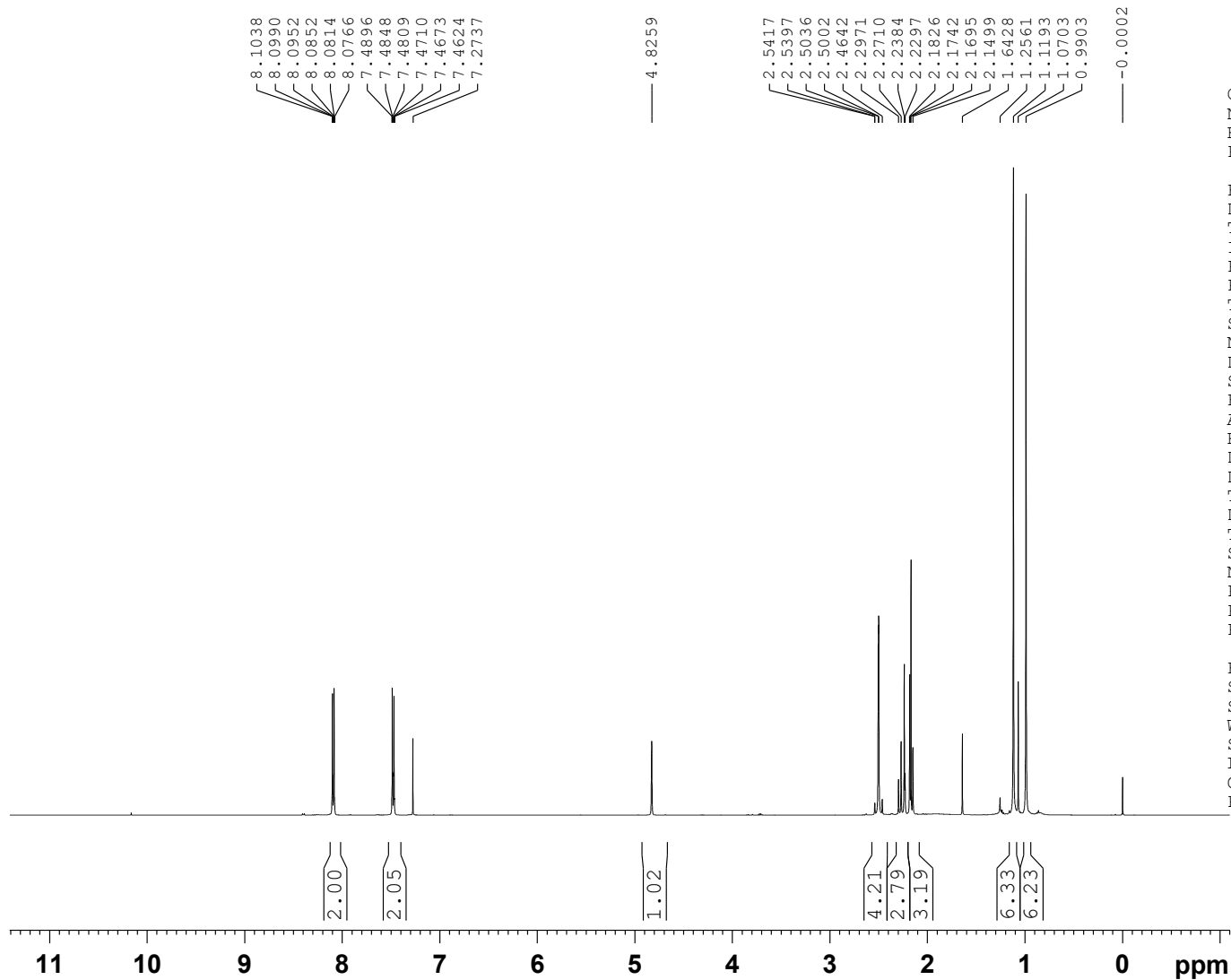
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3A1

Instrument type and / or accessory

20/09/2024

3A1
1H_8scan CDC13 {D:\Spectra} nmr 27



BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
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EXPNO 270
PROCNO 1

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TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 74.0277
DW 34.000 usec
DE 6.79 usec
TE 300.1 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

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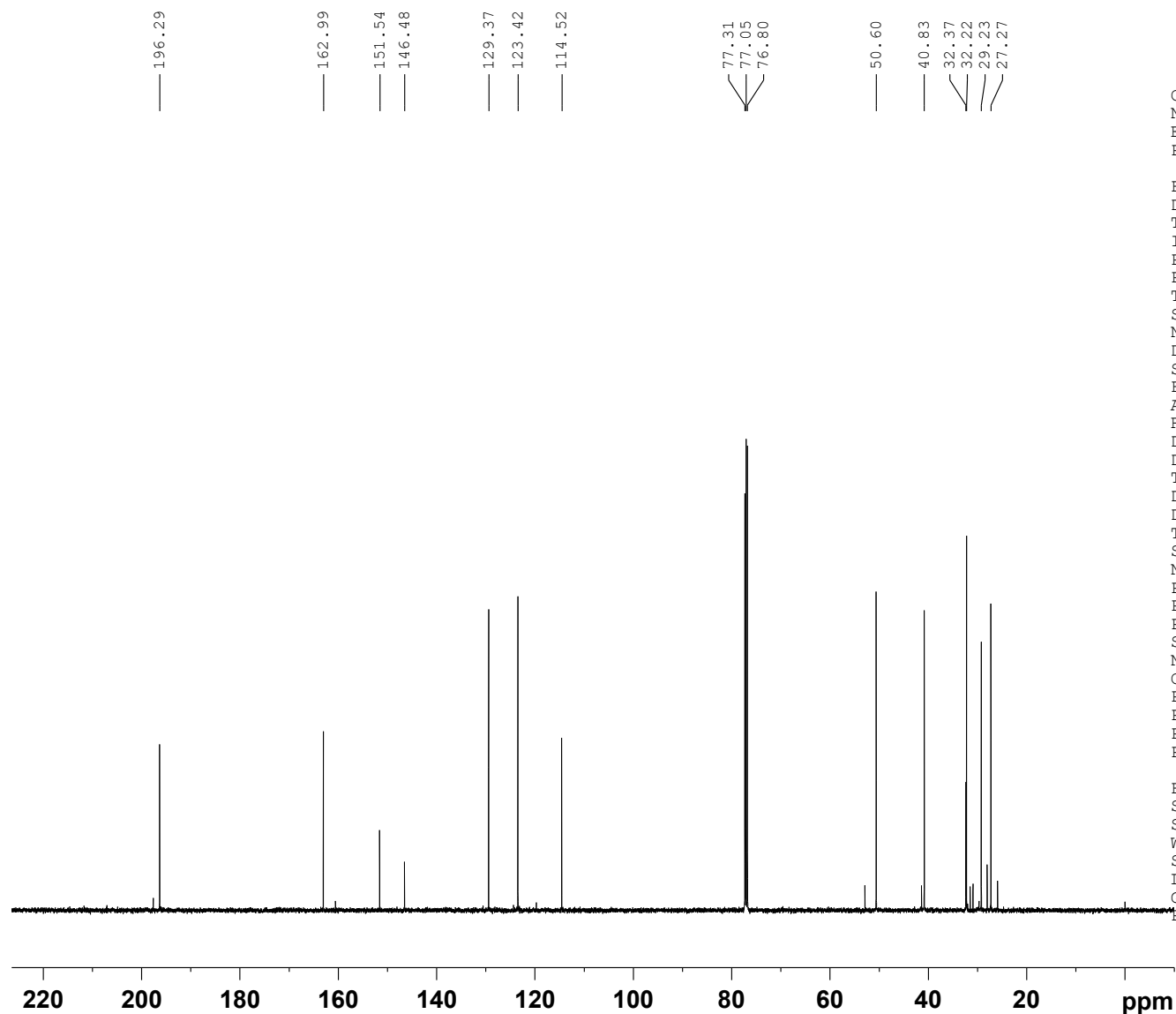
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BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

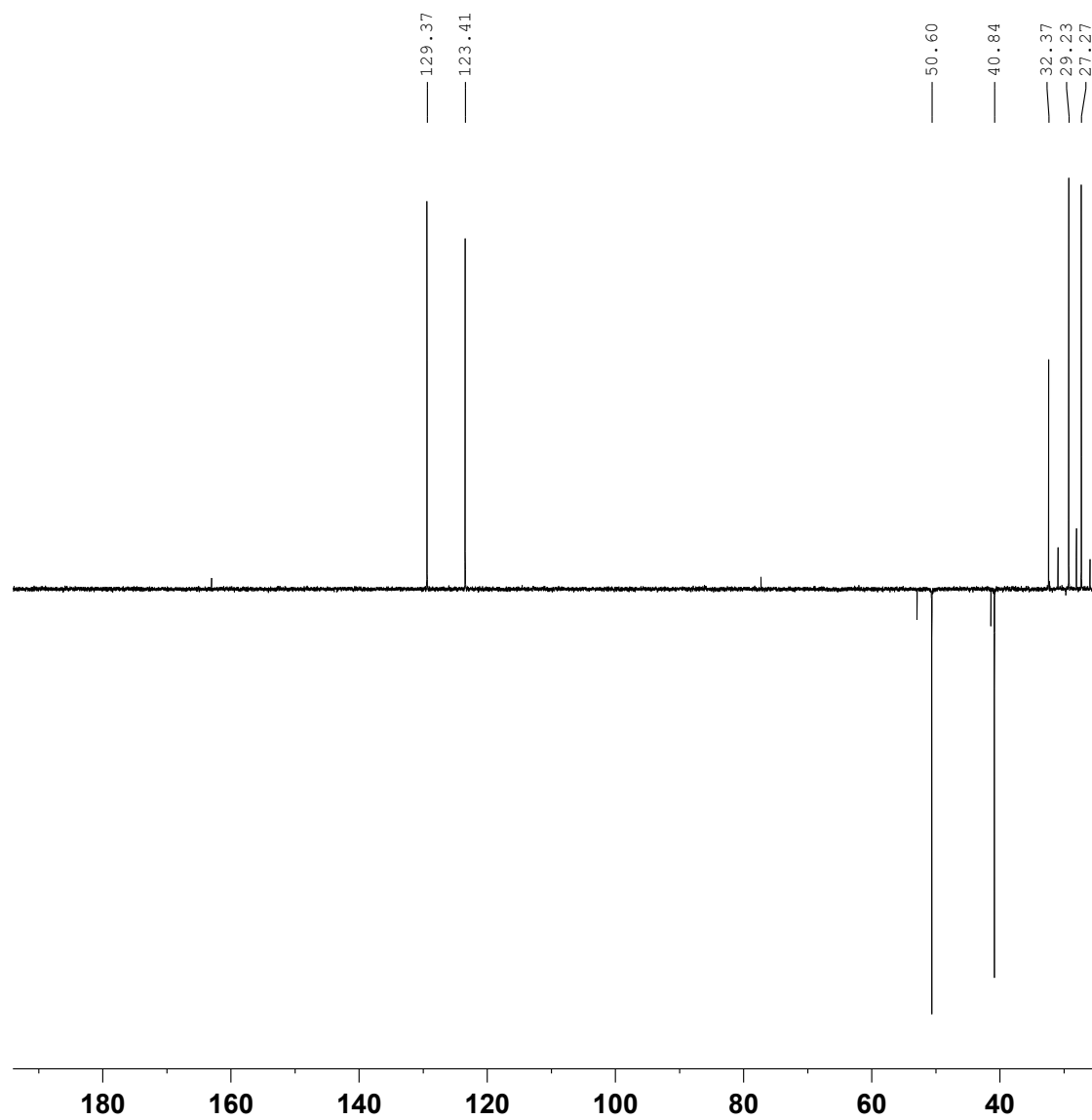
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SOLVENT CDC13
NS 282
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SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



3A1
C13DEPT135 CDC13 {D:\Spectra} nmr 27



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 272
PROCNO 1

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Time_ 16.35 h
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PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 160
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

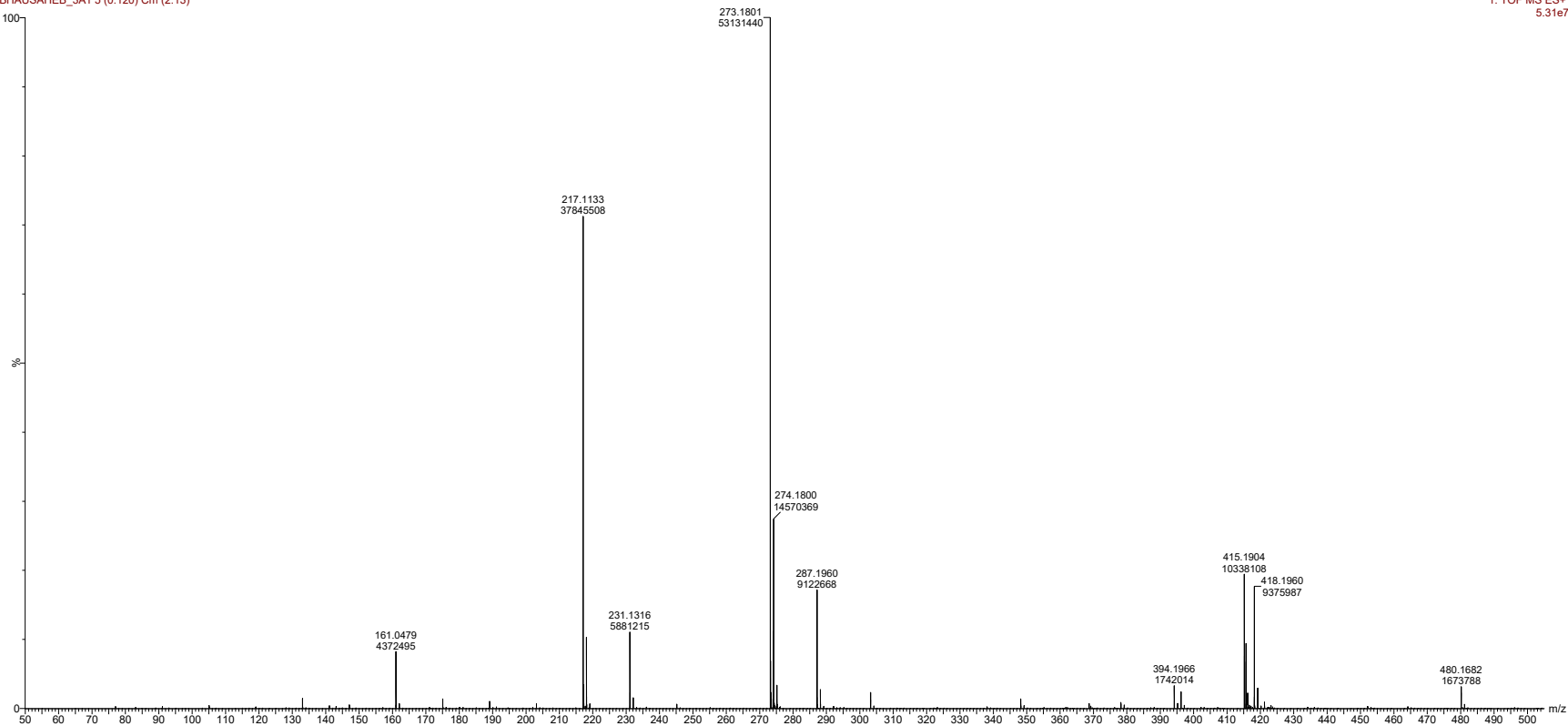
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SAIF,PANJAB UNIVERSITY,CHANDIGARH

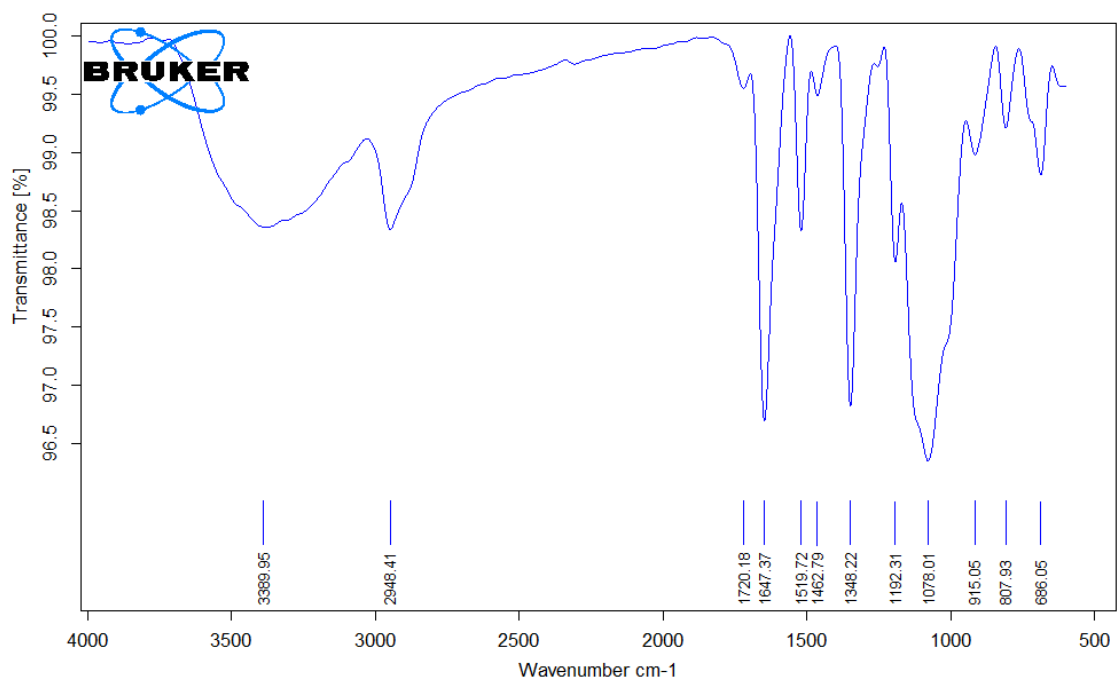
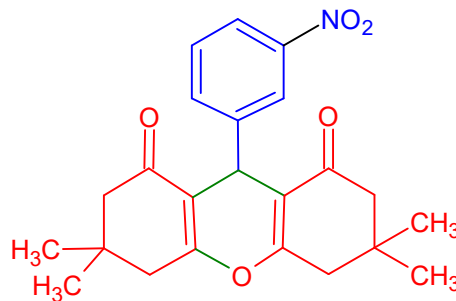
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BHAUSAHEB_3A1 5 (0.120) Cm (2:13)



3A2- 3,3,6,6-tetramethyl-9-(3-nitrophenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione



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3A2

Instrument type and / or accessory

20/09/2024

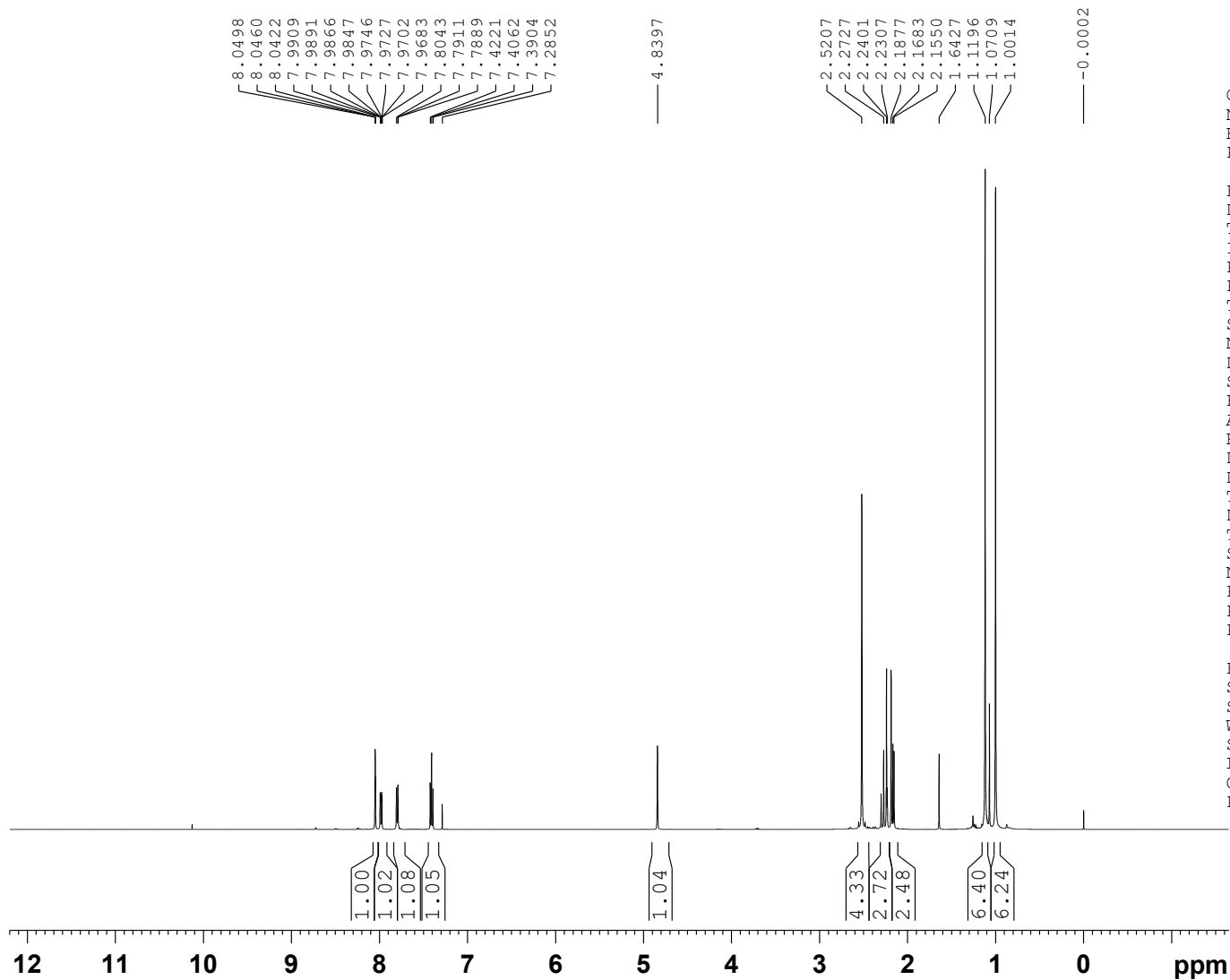
3A2
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BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

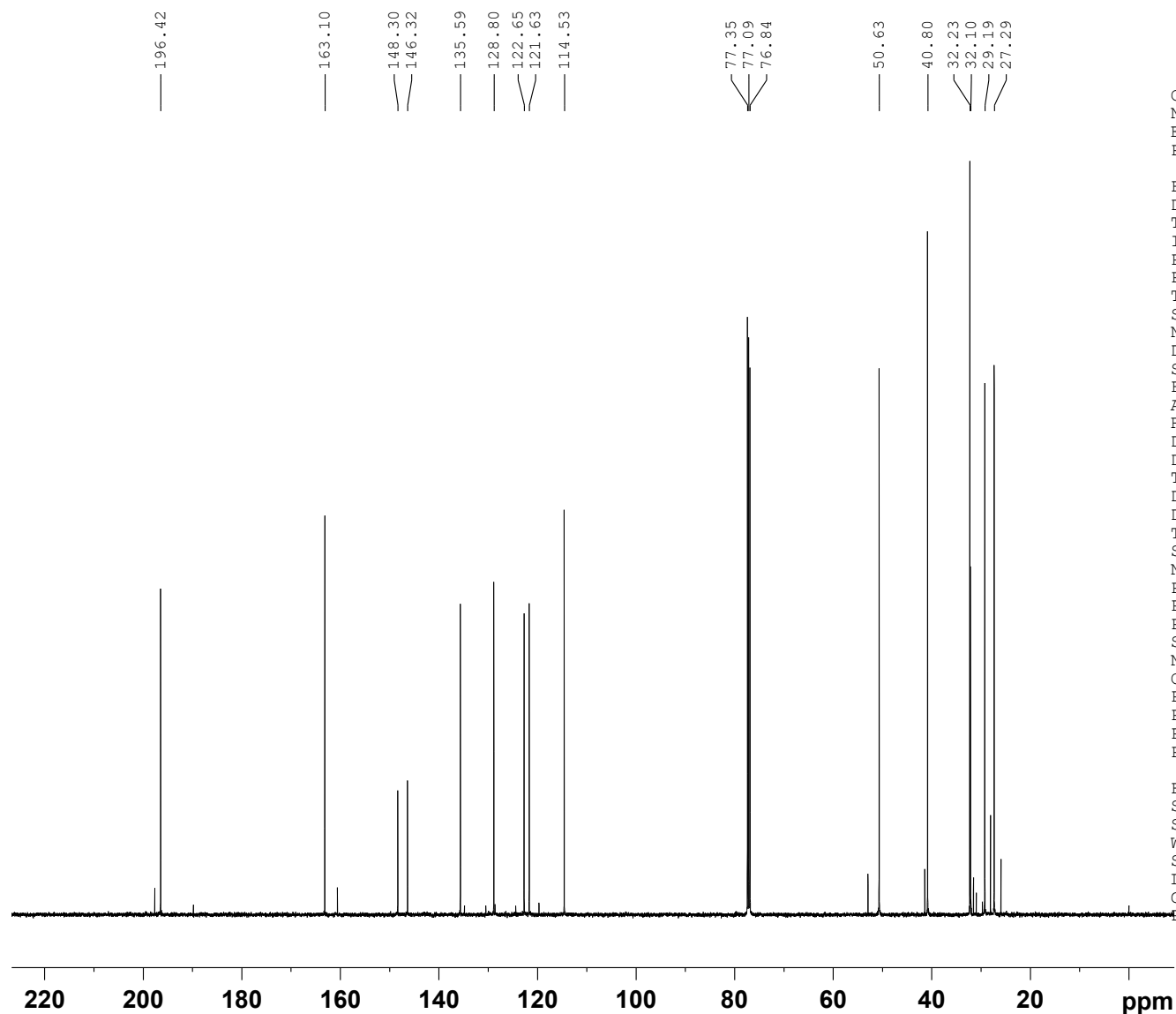
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SOLVENT CDC13
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SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 37.9568
DW 34.000 usec
DE 6.79 usec
TE 300.1 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
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SF 500.1699990 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



3A2
C13CPD CDC13 {D:\Spectra} nmr 28



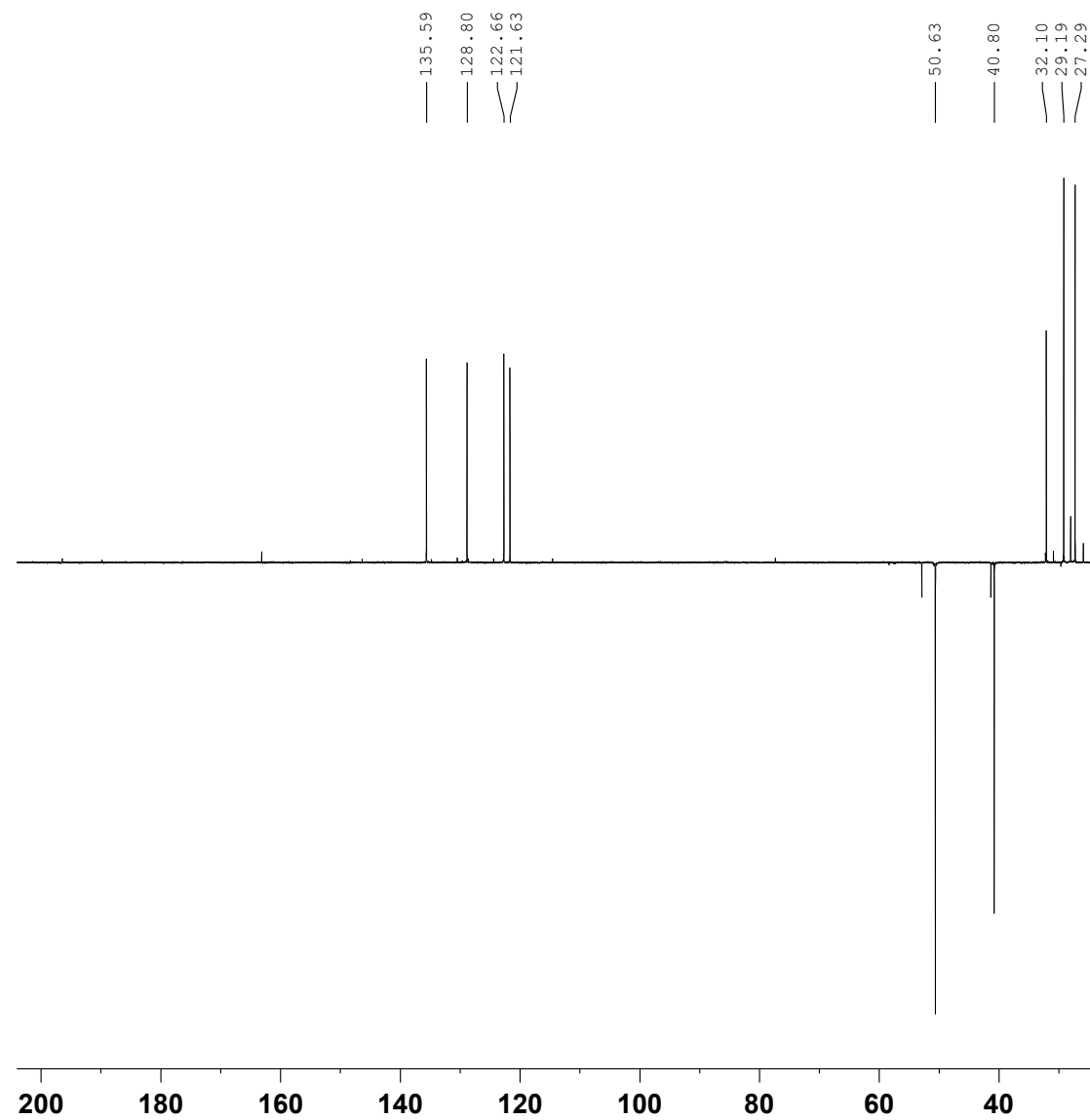
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
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EXPNO 281
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 17.25 h
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PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3A2
C13DEPT135 CDC13 {D:\Spectra} nmr 28



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 282
PROCNO 1

F2 - Acquisition Parameters
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Time_ 17.38 h
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SOLVENT CDC13
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SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

SAIF,PANJAB UNIVERSITY,CHANDIGARH

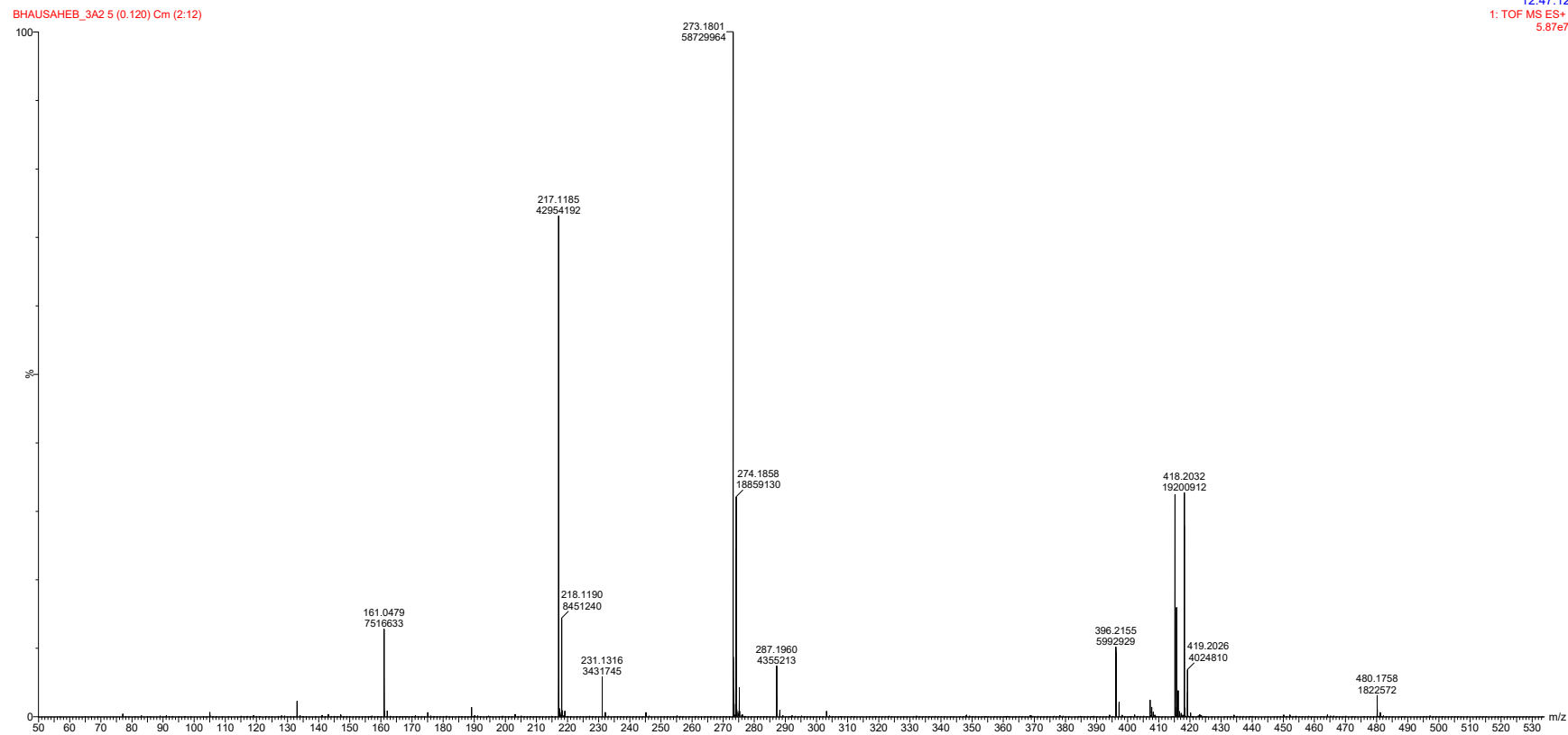
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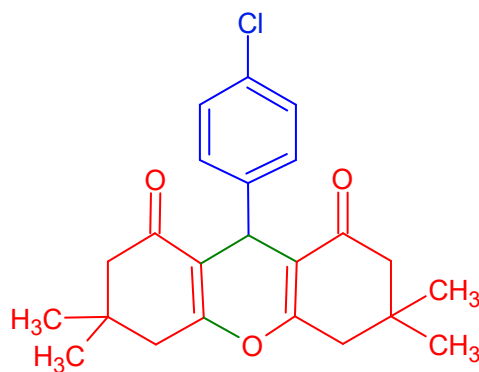
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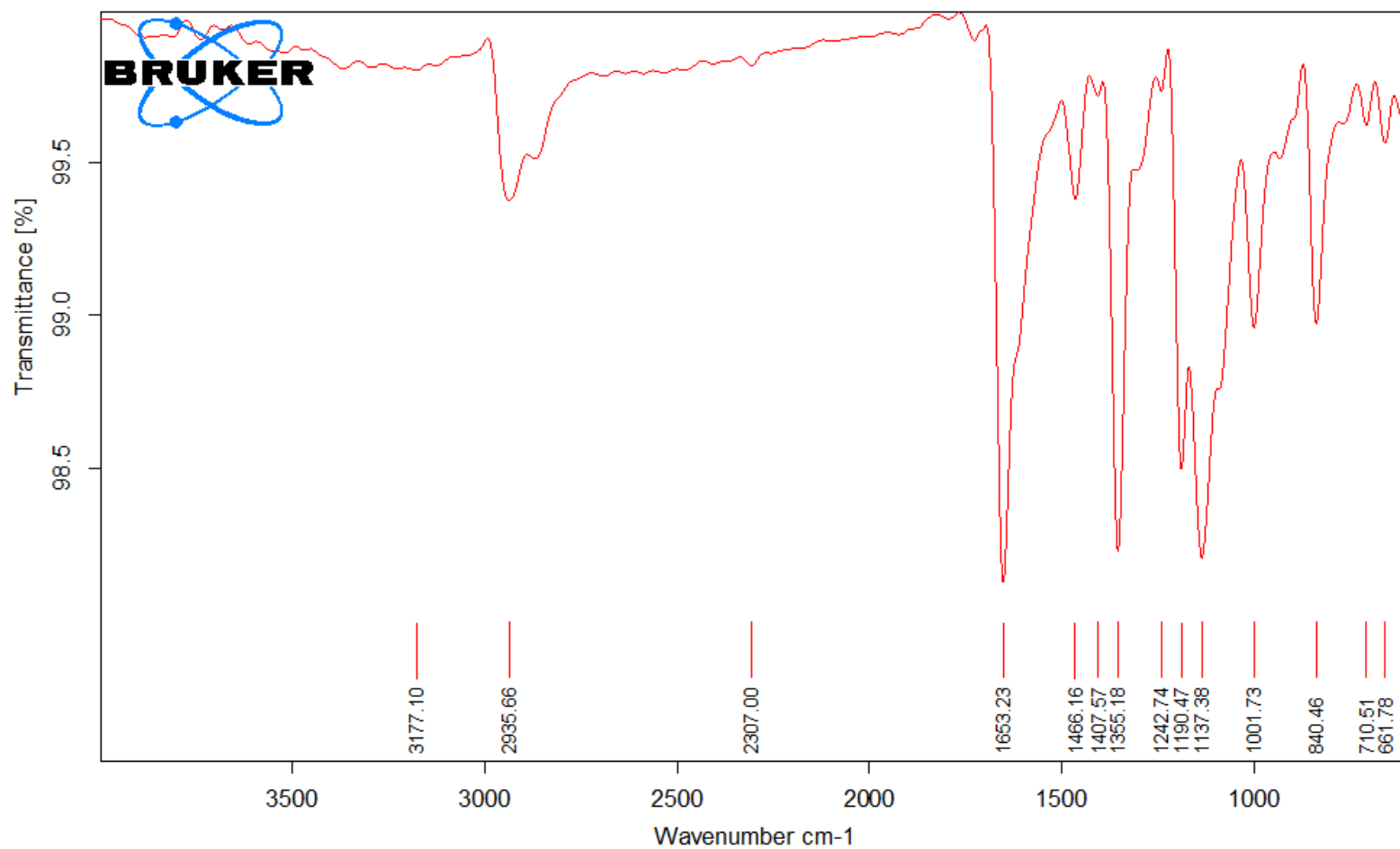
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3A3- 3,3,6,6-tetramethyl-9-(4-chlorophenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





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3A3

Instrument type and / or accessory

02/10/2024

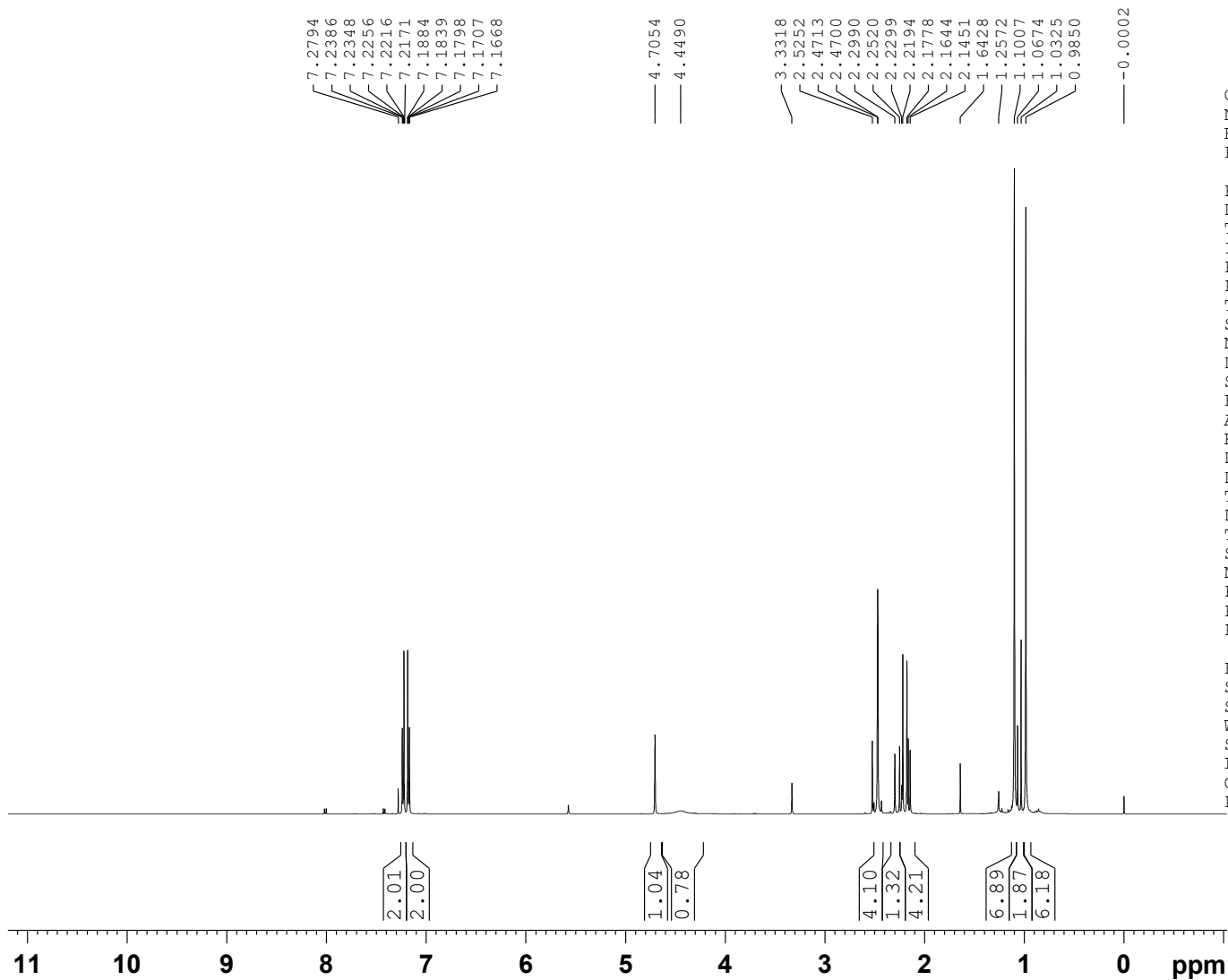
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BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

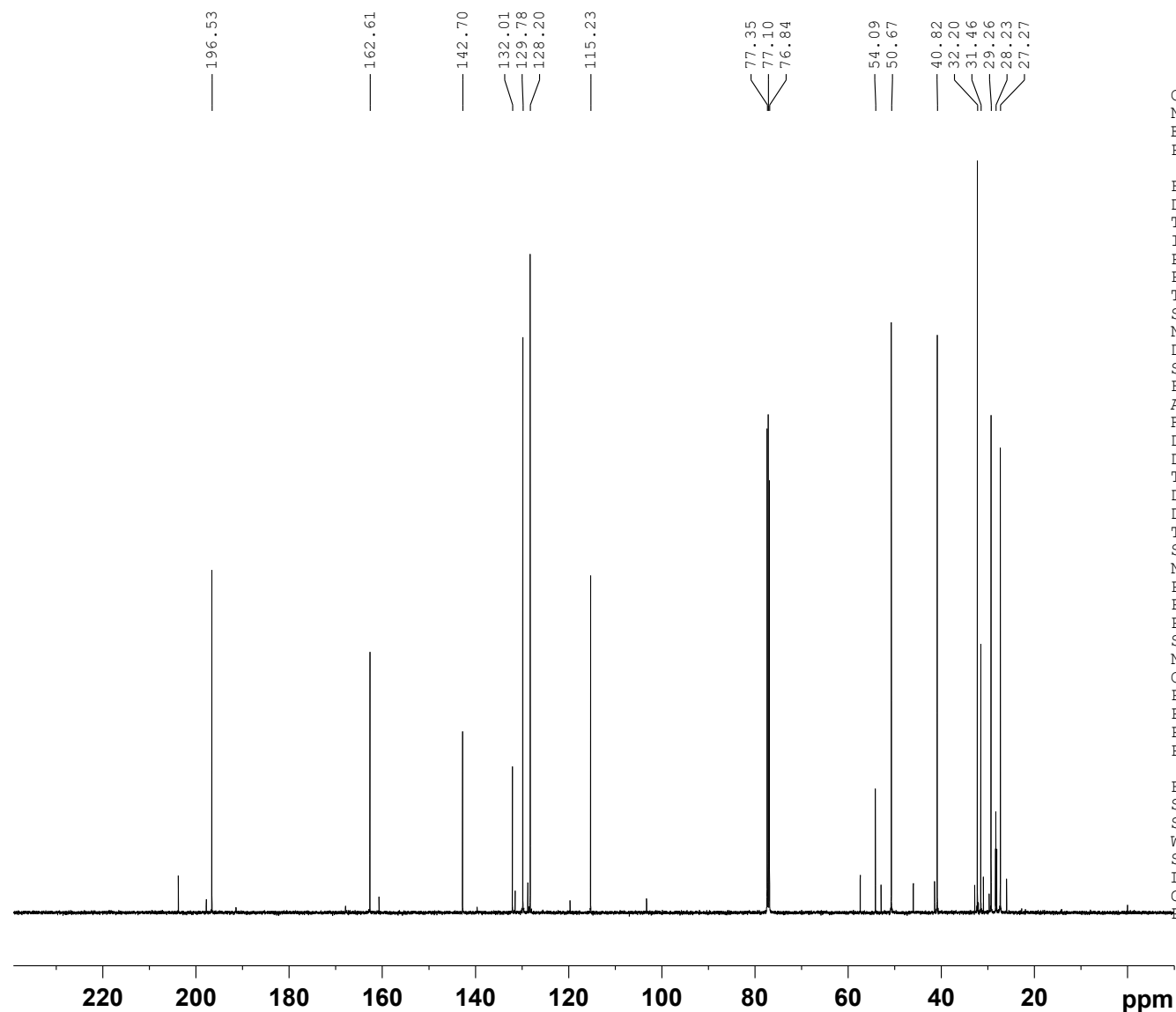
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TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 38.0156
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
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GB 0
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3A3
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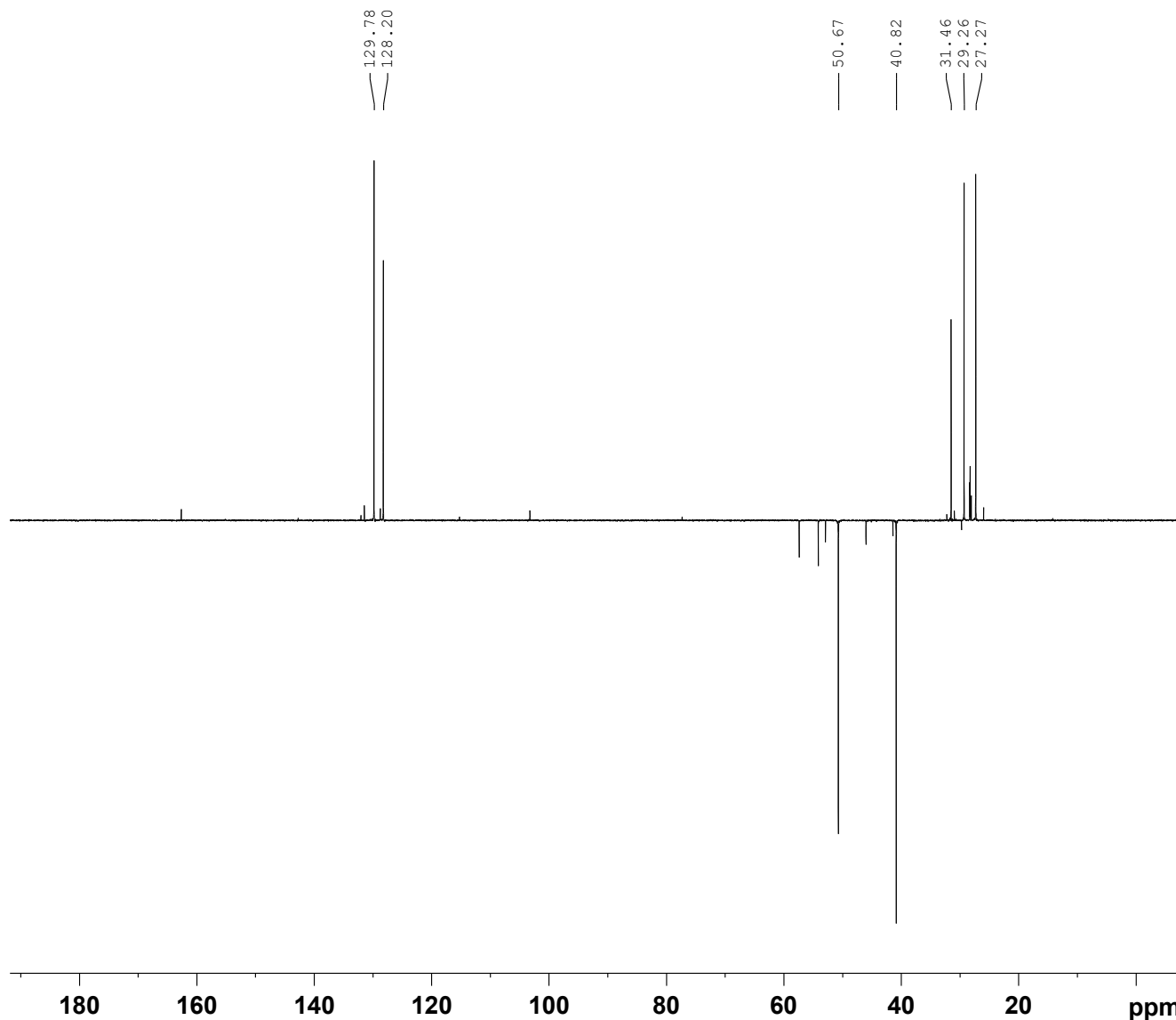
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
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PROCNO 1

F2 - Acquisition Parameters
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Time_ 18.06 h
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PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3A3
C13DEPT135 CDC13 {D:\Spectra} nmr 29



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 292
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 18.19 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 ()
PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

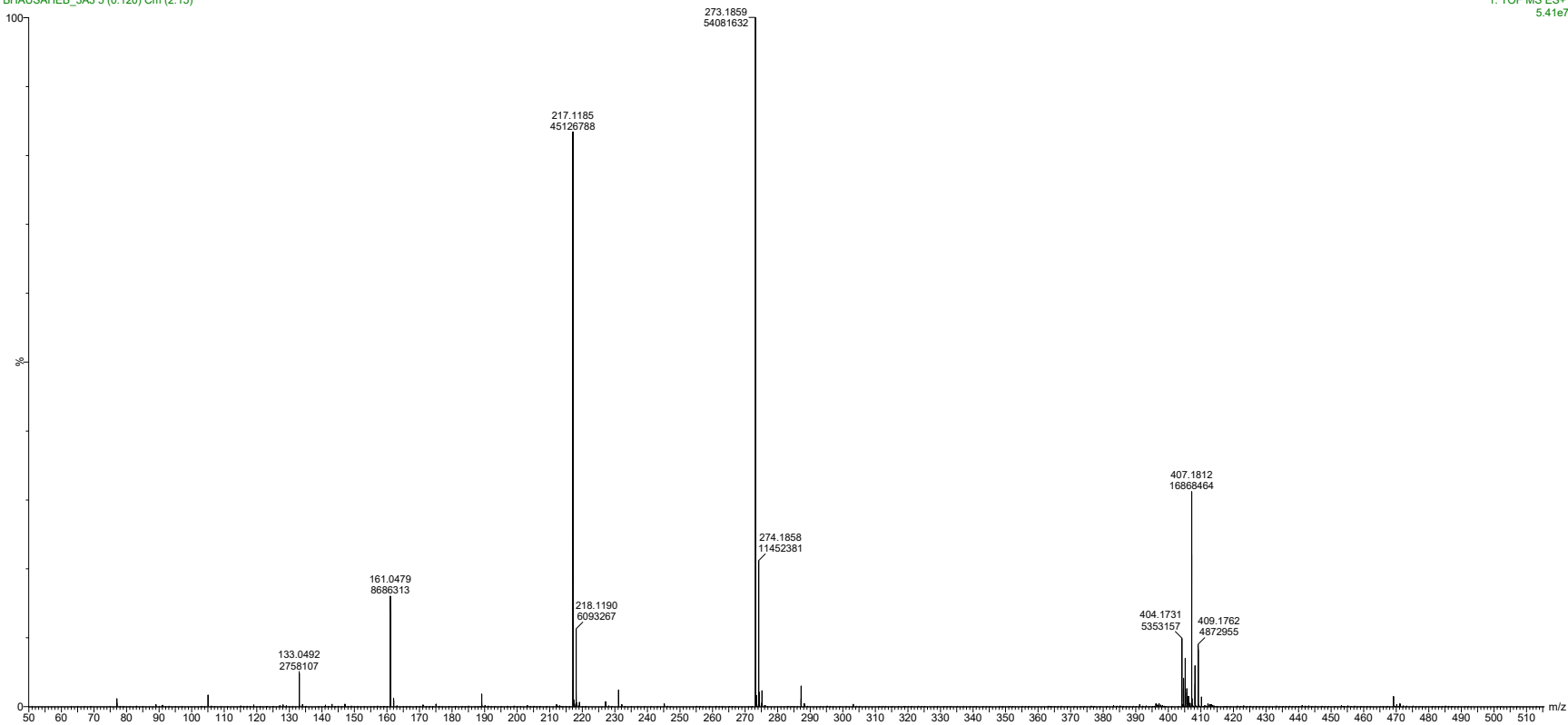
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PC 1.40

SAIF,PANJAB UNIVERSITY,CHANDIGARH

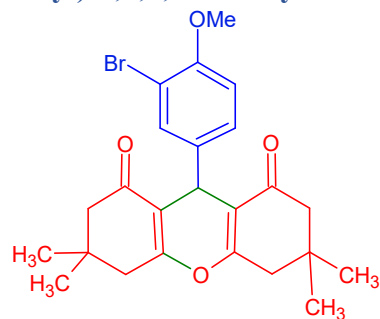
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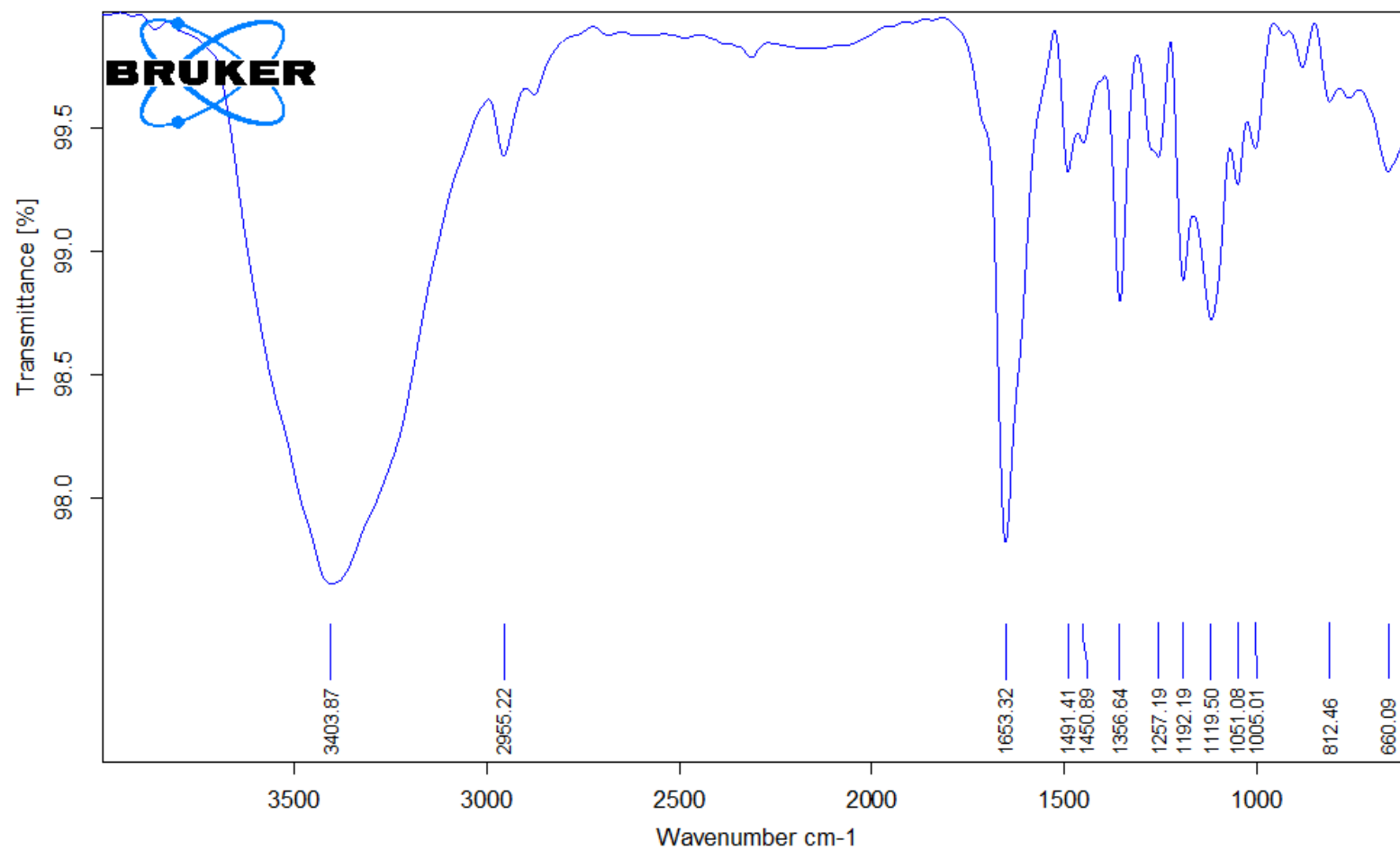
09-Jan-2024
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BHAUSAHEB_3A3 5 (0.120) Cm (2:15)



3A4- 3,3,6,6-tetramethyl-9-(3-bromo-4-methoxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





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3A4

Instrument type and / or accessory

02/10/2024

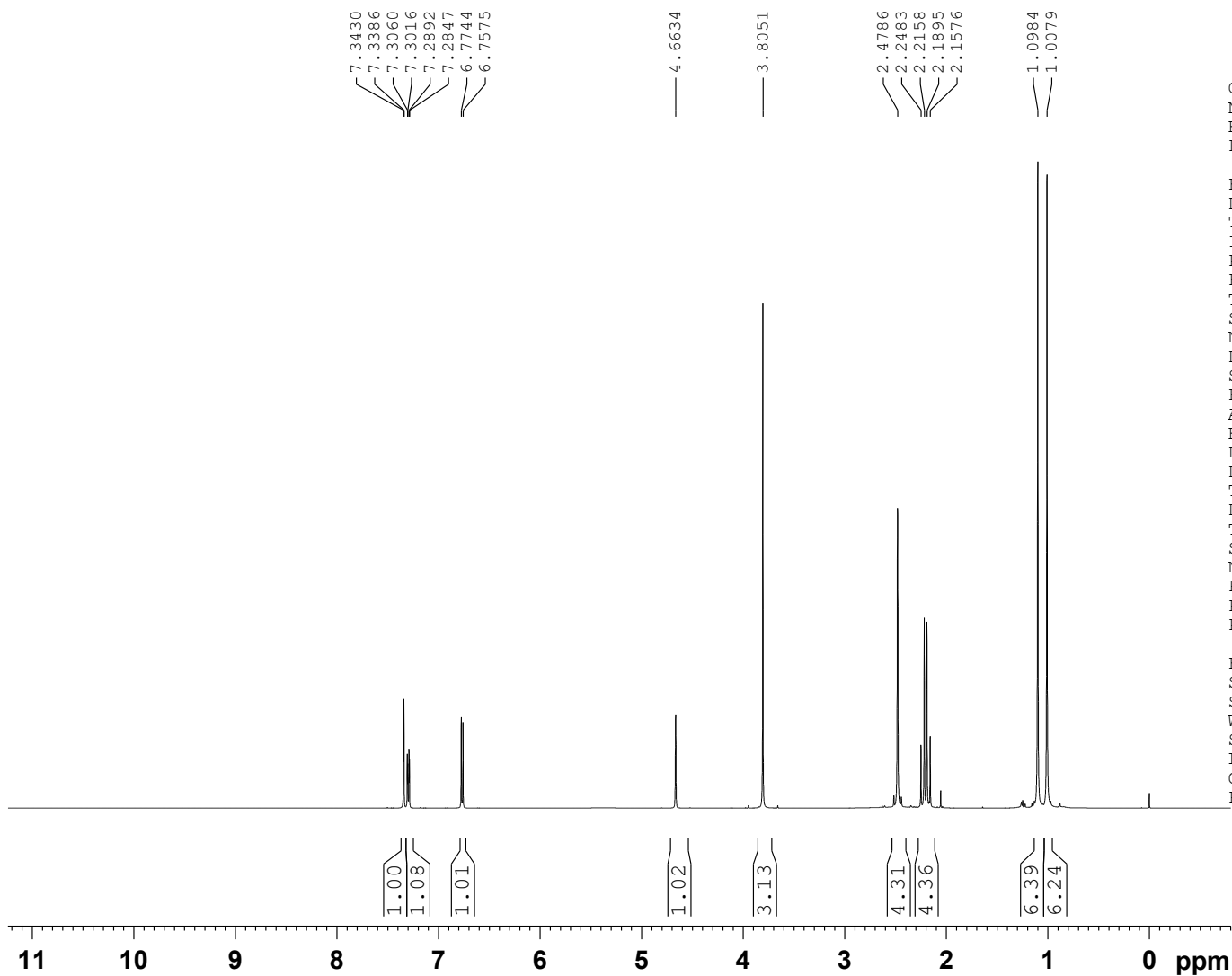
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BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
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PROCNO 1

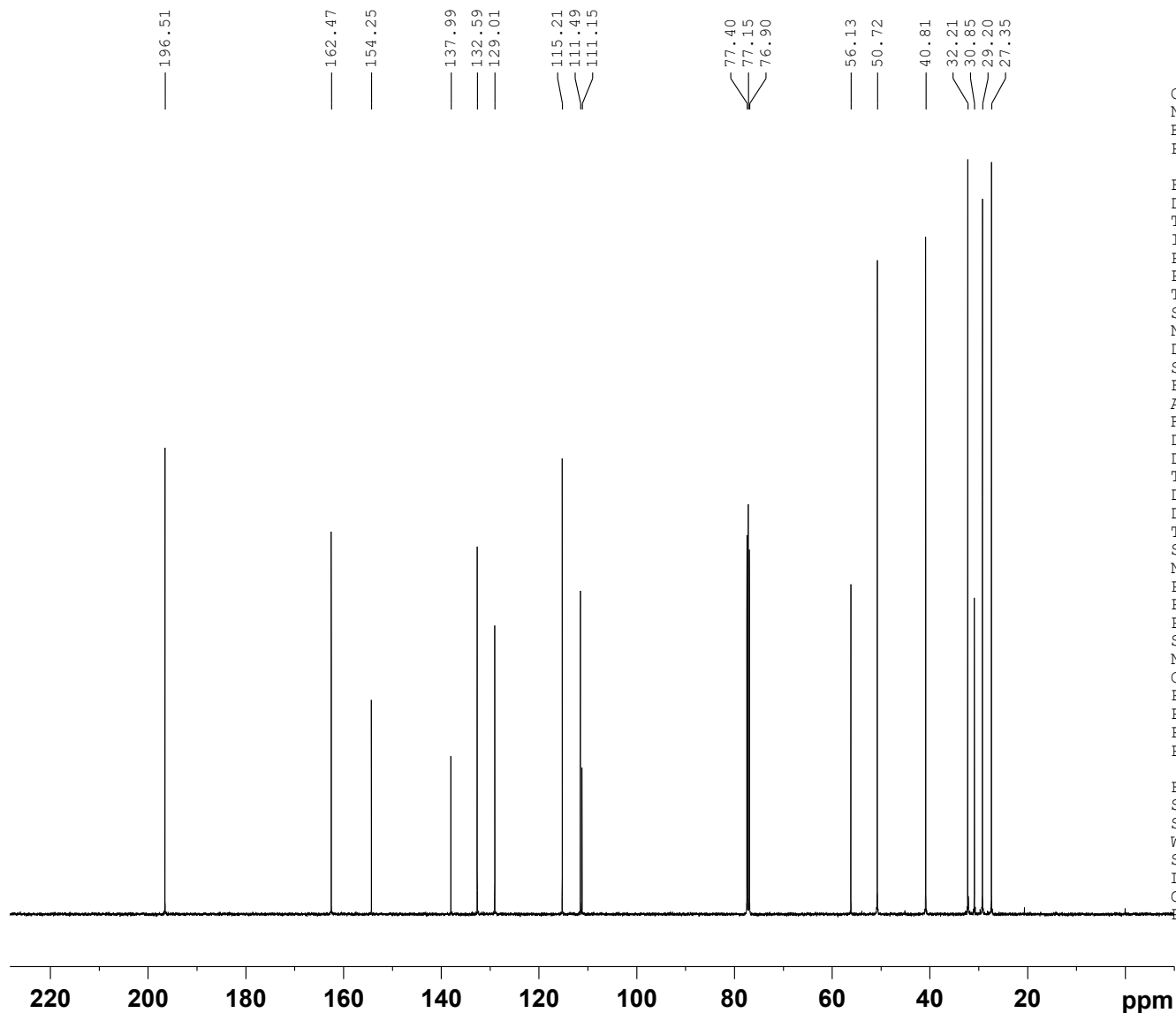
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SOLVENT CDC13
NS 16
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SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 29.4359
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1699960 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



3A4

C13CPD CDC13 {D:\Spectra} nmr 30



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters

NAME Jan03-2024
EXPNO 301
PROCNO 1

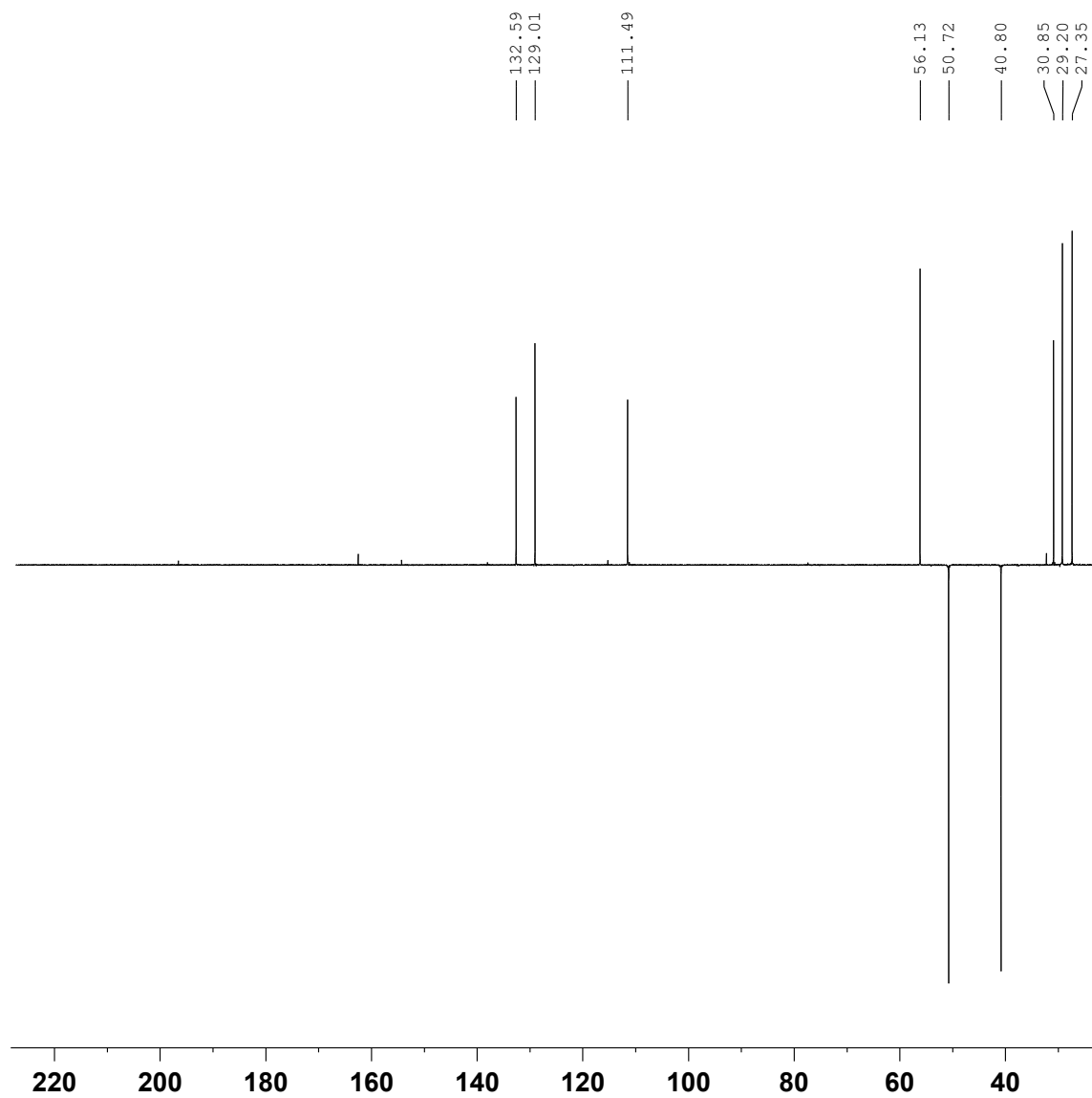
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SOLVENT CDC13
NS 512
DS 4
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FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters

SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3A4
C13DEPT135 CDC13 {D:\Spectra} nmr 30



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 302
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 19.01 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (PULPROG deptsp135)
TD 65536
SOLVENT CDC13
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

SAIF,PANJAB UNIVERSITY,CHANDIGARH

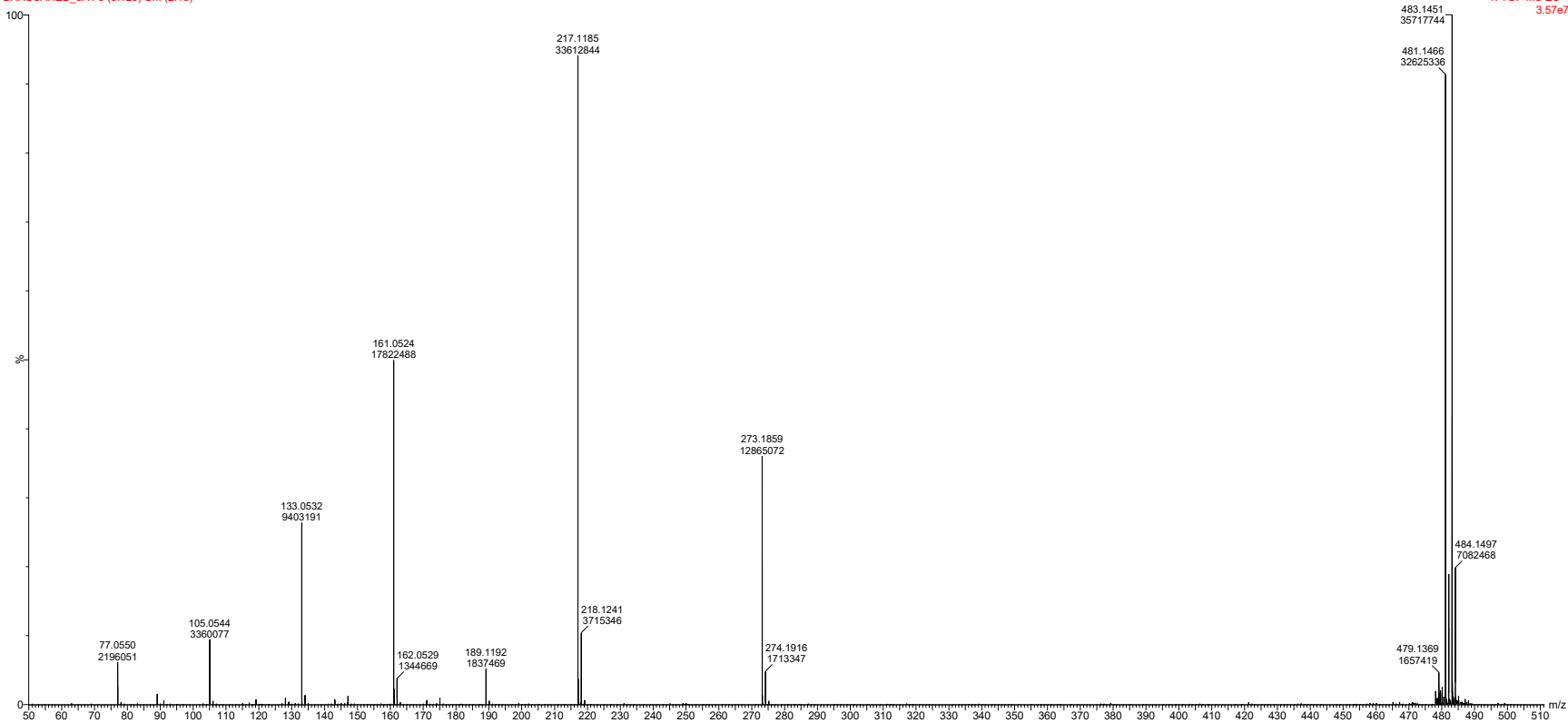
SYNAPT-XS#DBA064

09-Jan-2024

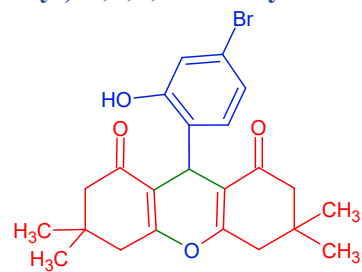
12:52:38

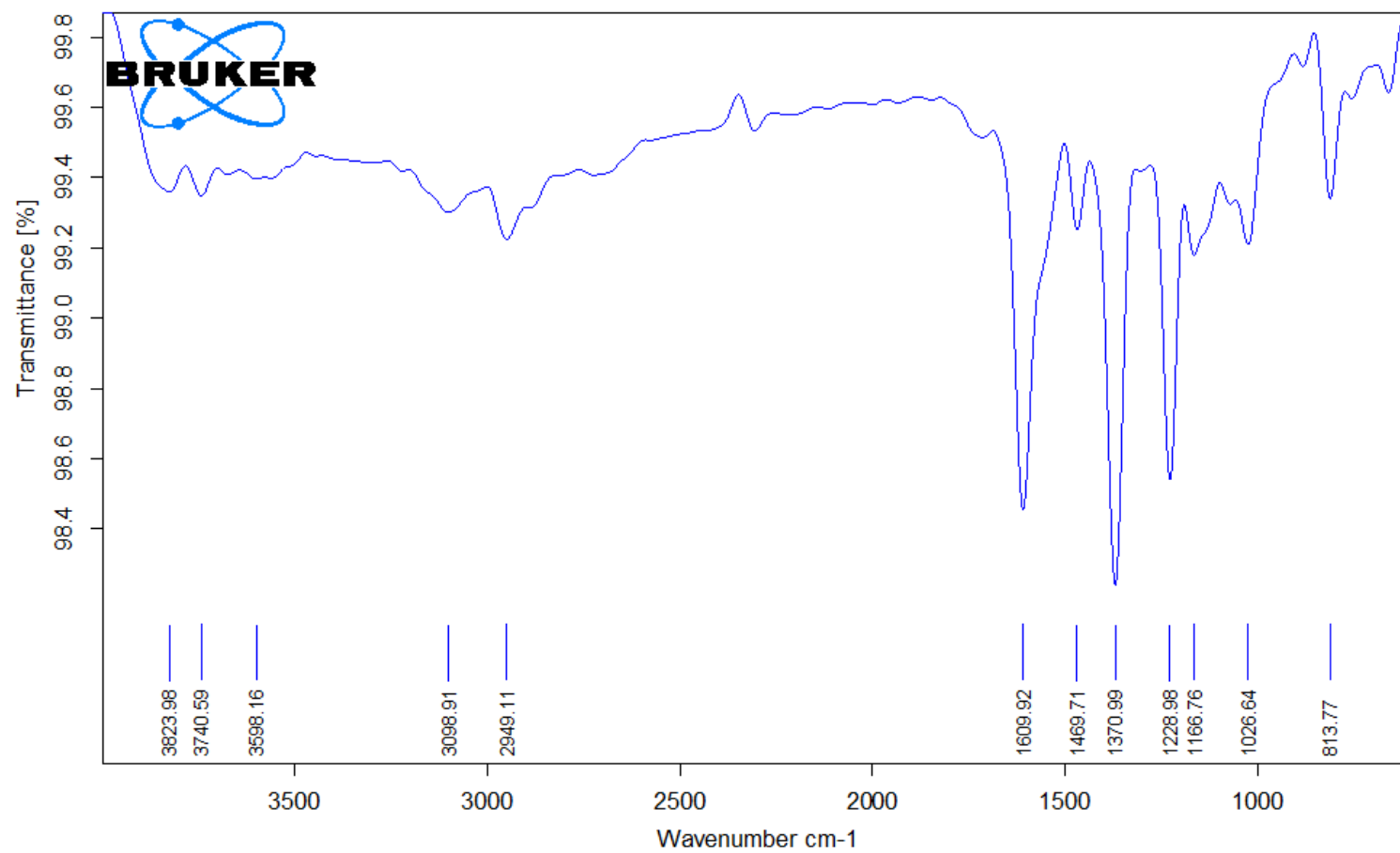
1: TOF MS ES+
3.57e7

BHAUSAHEB_3A4 5 (0.120) Cm (2:13)



3A5- 3,3,6,6-tetramethyl-9-(4-bromo-2-hydroxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione



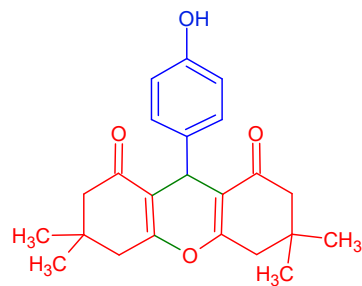


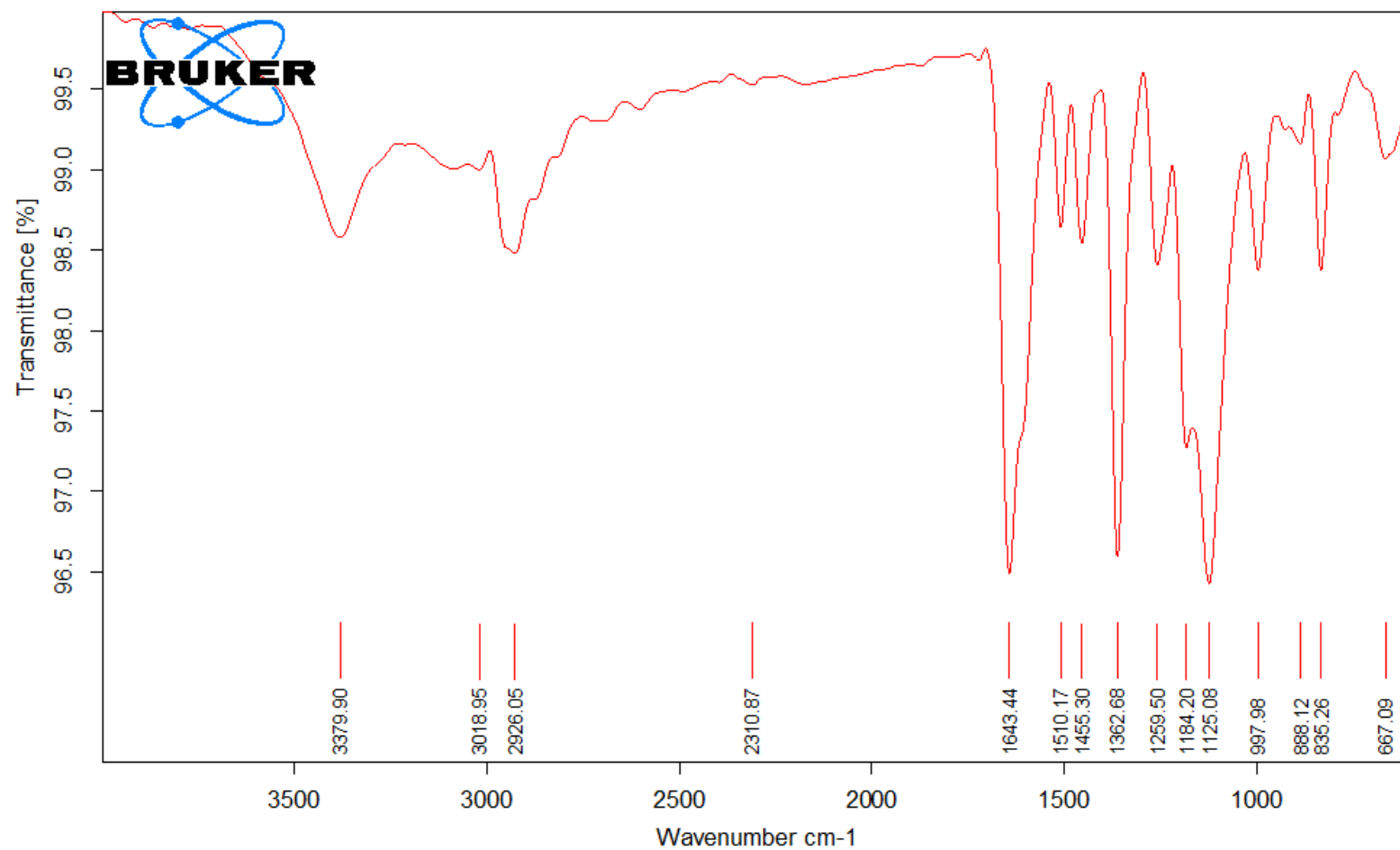
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\296

3A5

Instrument type and / or accessory

02/10/2024

3A6- 3,3,6,6-tetramethyl-9-(4-hydroxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione



C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\338

3A6

Instrument type and / or accessory

15/10/2024

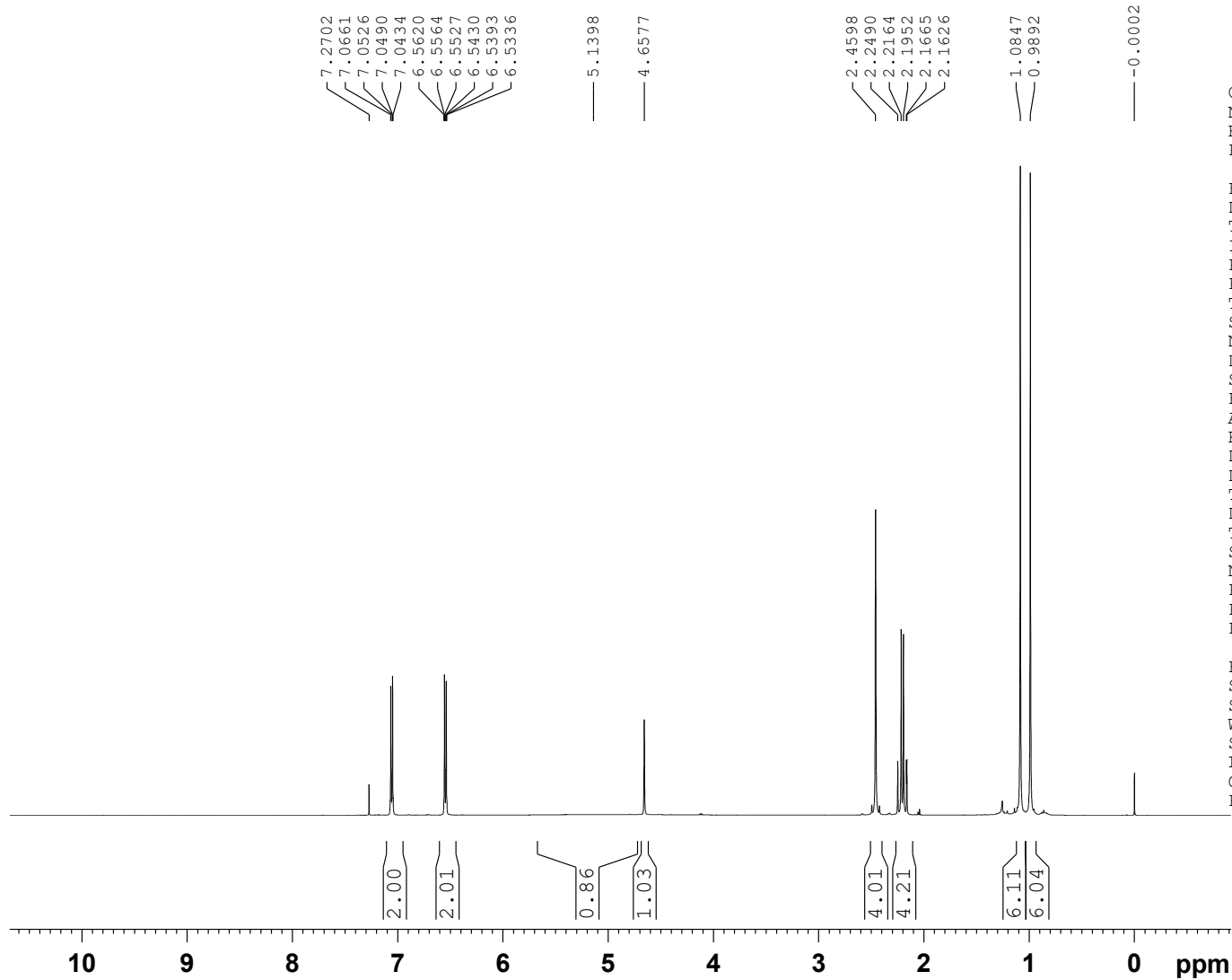
3A6
1H_8scan CDC13 {D:\Spectra} nmr 31

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

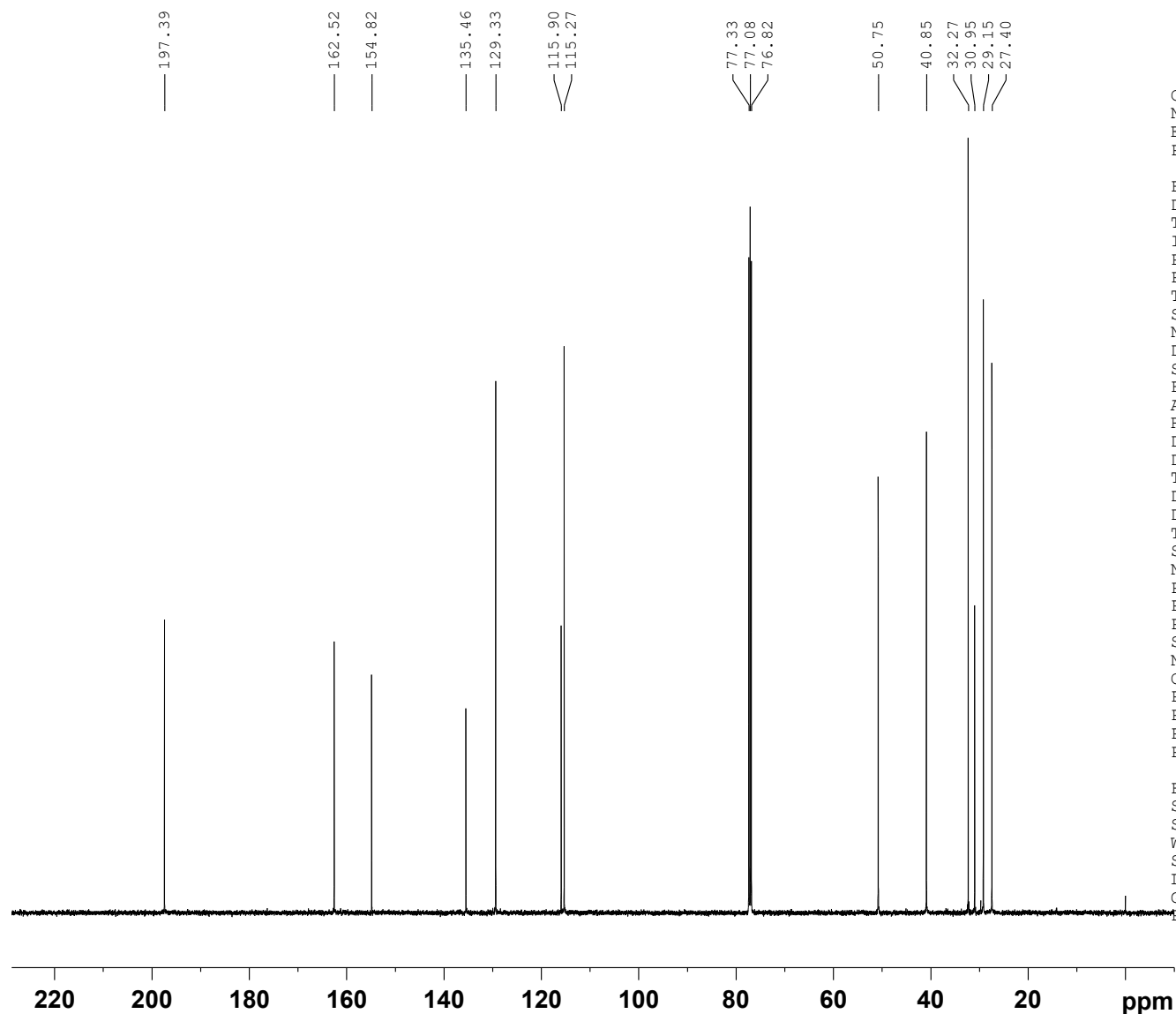
Current Data Parameters
NAME Jan03-2024
EXPNO 310
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 19.04 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 40.8668
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700067 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



3A6
C13CPD CDC13 {D:\Spectra} nmr 31



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters

NAME Jan03-2024
EXPNO 311
PROCNO 1

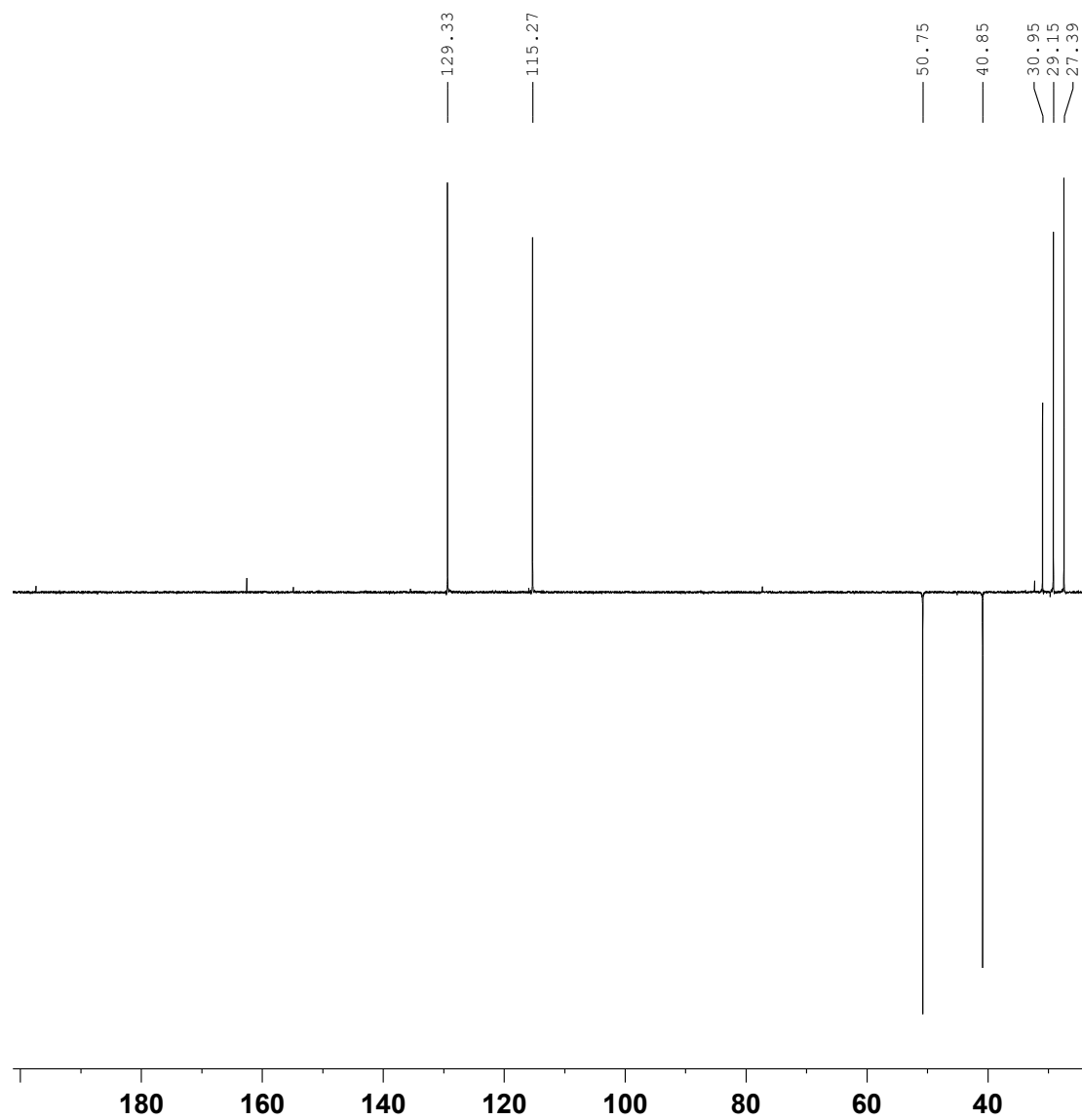
F2 - Acquisition Parameters

Date_ 20240103
Time_ 19.29 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters

SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3A6
C13DEPT135 CDC13 {D:\Spectra} nmr 31



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 312
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 19.42 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

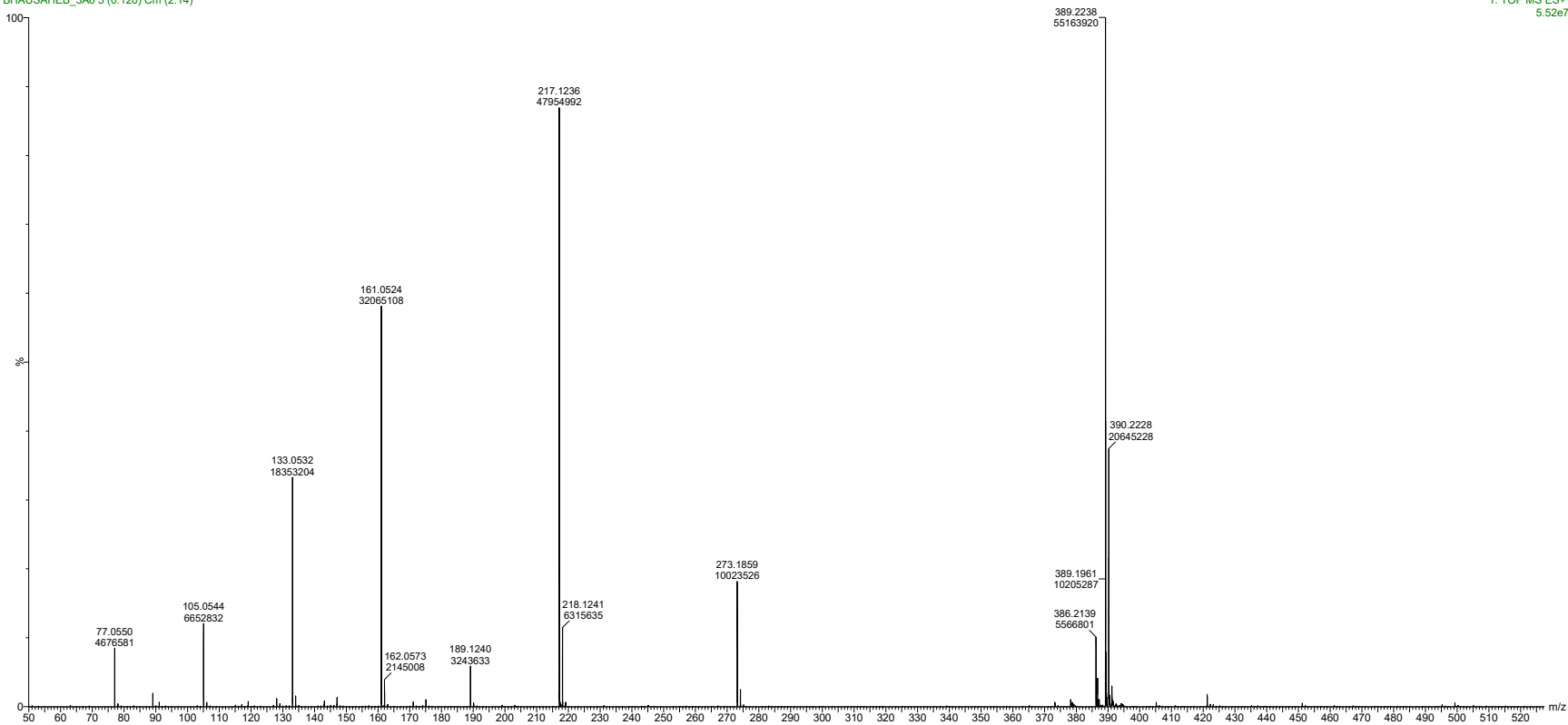
F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

SAIF,PANJAB UNIVERSITY,CHANDIGARH

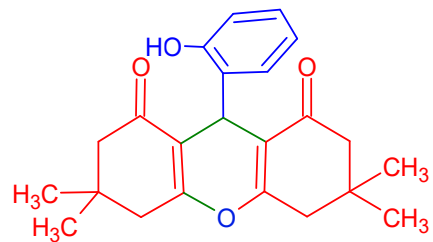
SYNAPT-XS#DBA064

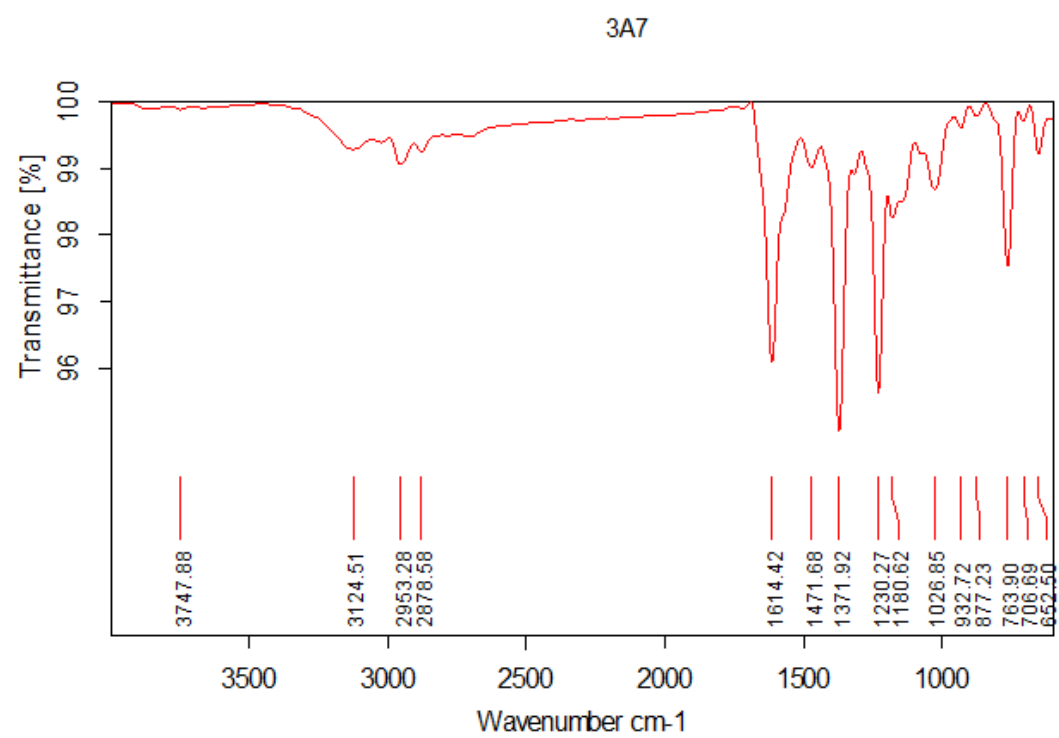
09-Jan-2024
12:55:22
1: TOF MS ES+
5.52e7

BHAUSAHEB_3A6 5 (0.120) Cm (2:14)



3A7- 3,3,6,6-tetramethyl-9-(2-hydroxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





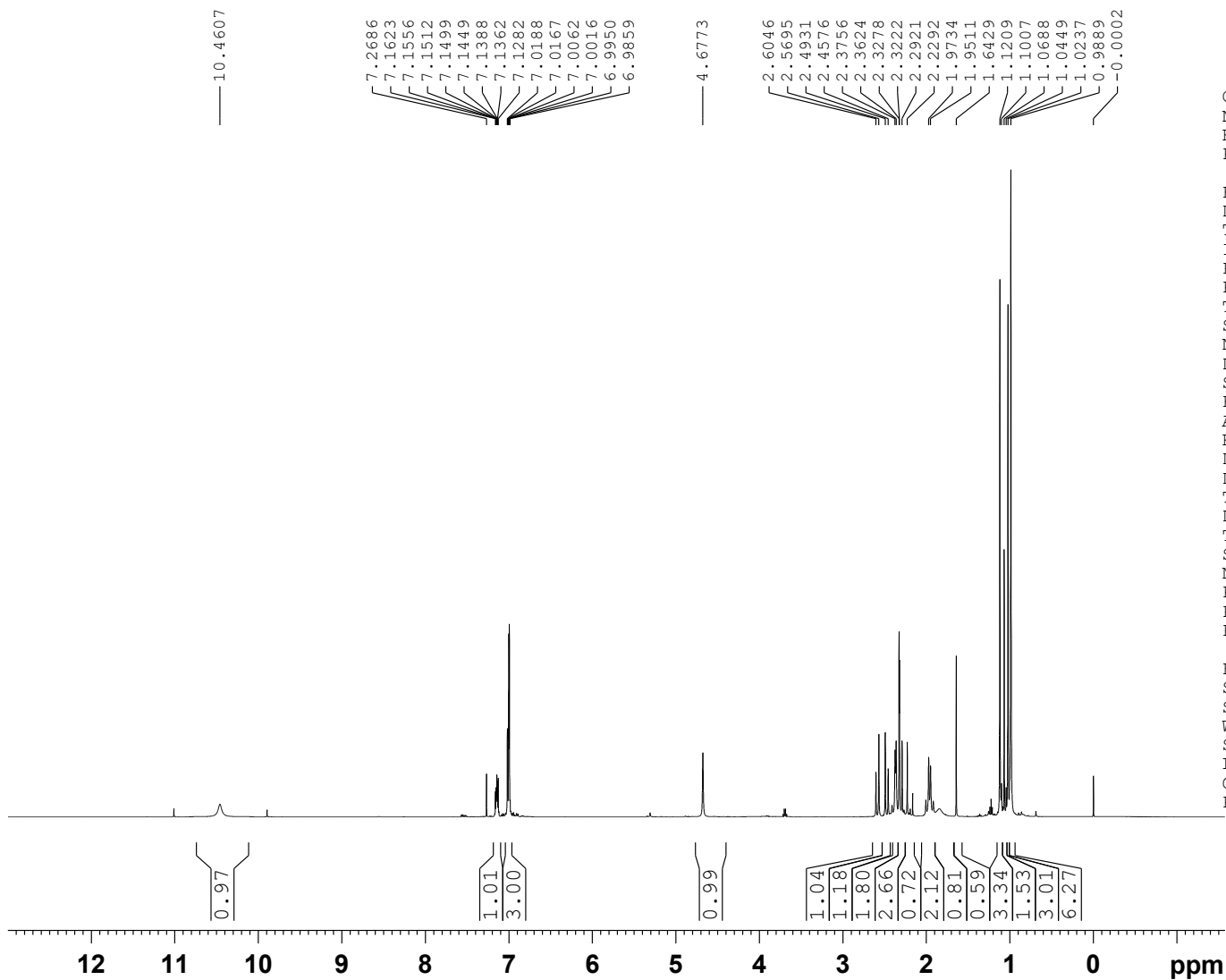
3A7
1H_8scan CDC13 {D:\Spectra} nmr 32

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
NAME Jan03-2024
EXPNO 320
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time 19.45 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 37.3782
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700076 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



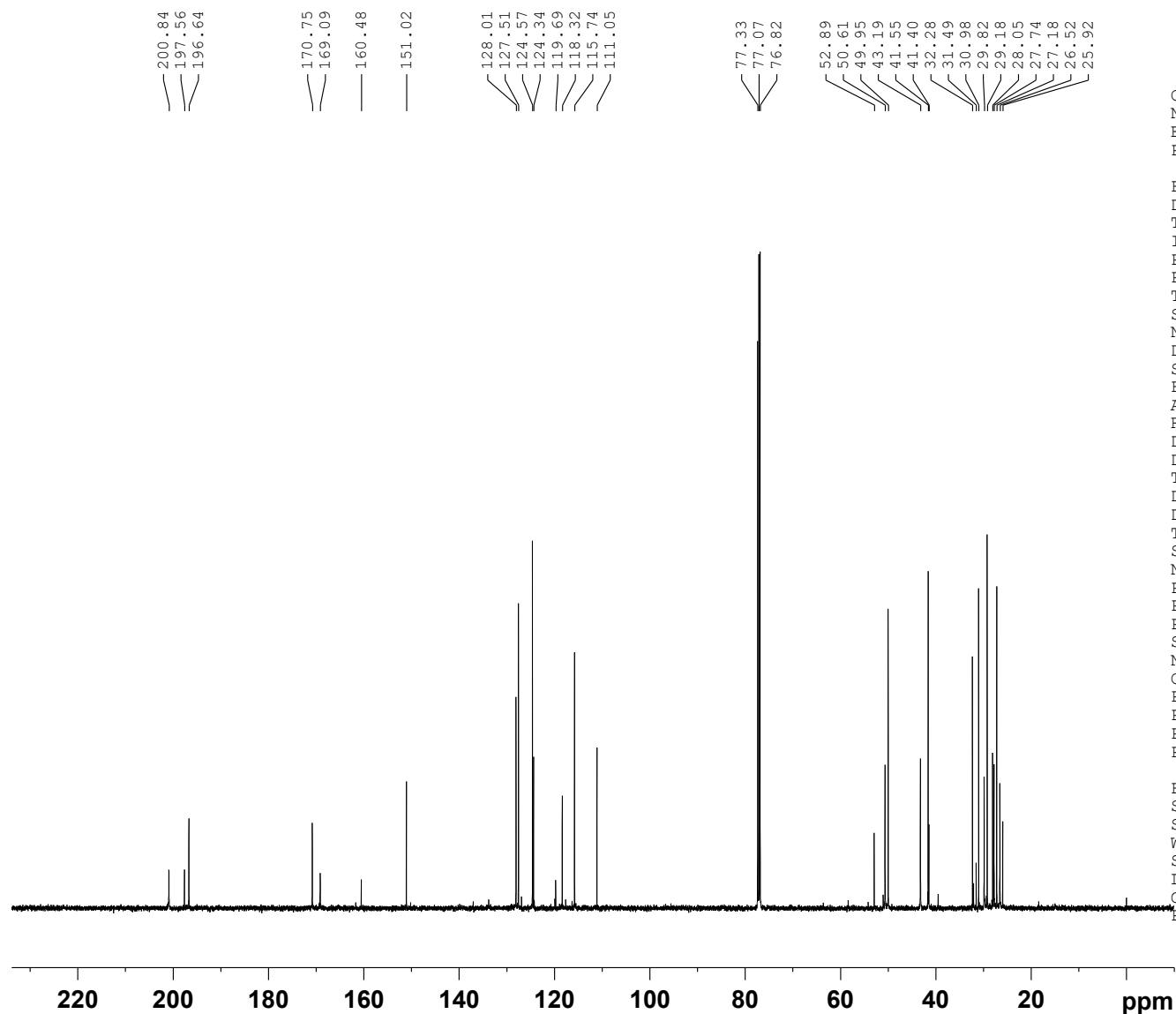
3A7
C13CPD CDC13 {D:\Spectra} nmr 32

BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 321
PROCNO 1

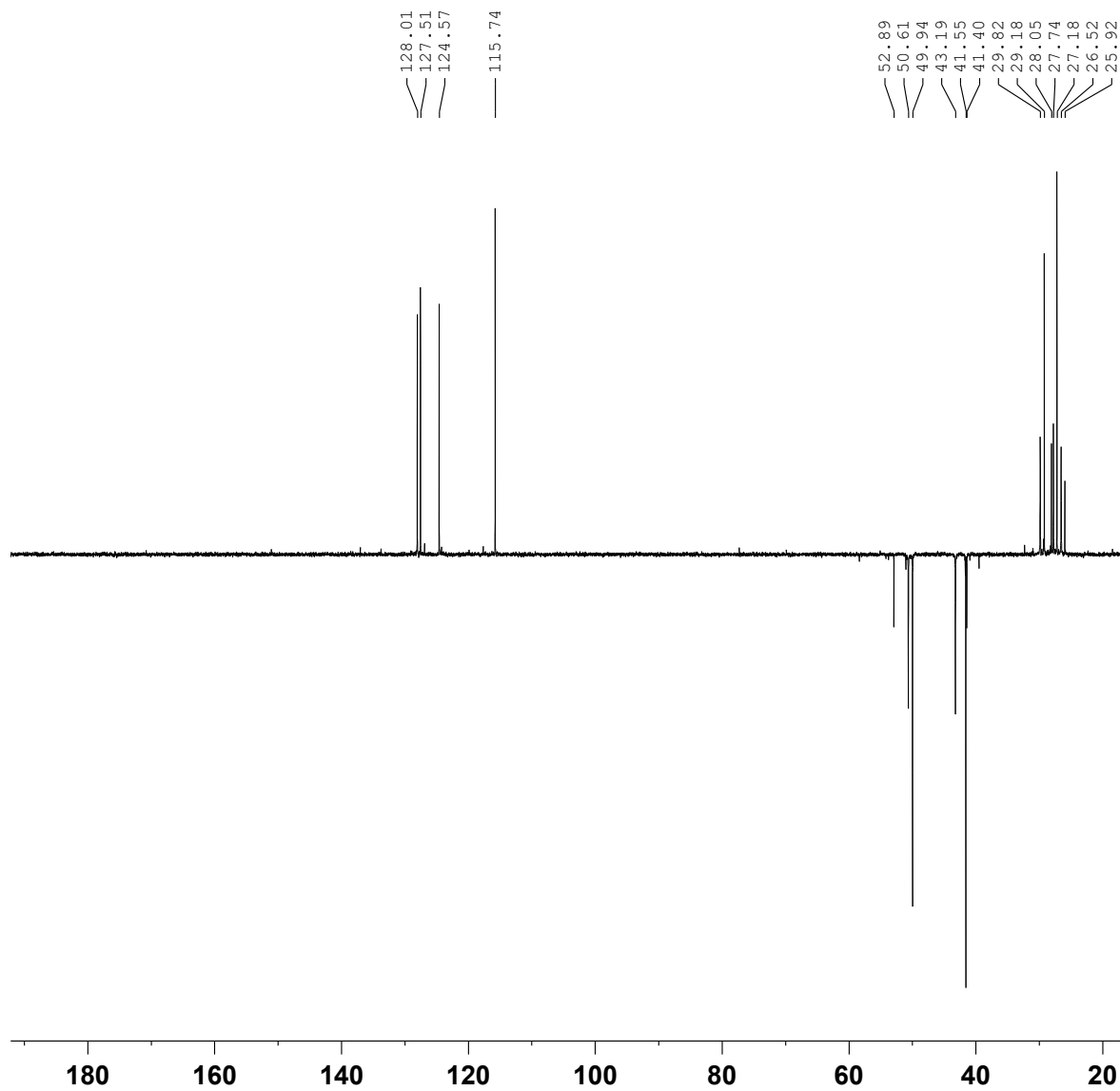
F2 - Acquisition Parameters
Date_ 20240103
Time_ 20.11 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



3A7

C13DEPT135 CDC13 {D:\Spectra} nmr 32



BRUKER
 AVANCE NEO
 500 MHz NMR SPECTROMETER
 SAIF, PANJAB UNIVERSITY,
 CHANDIGARH

Current Data Parameters
 NAME Jan03-2024
 EXPNO 322
 PROCNO 1

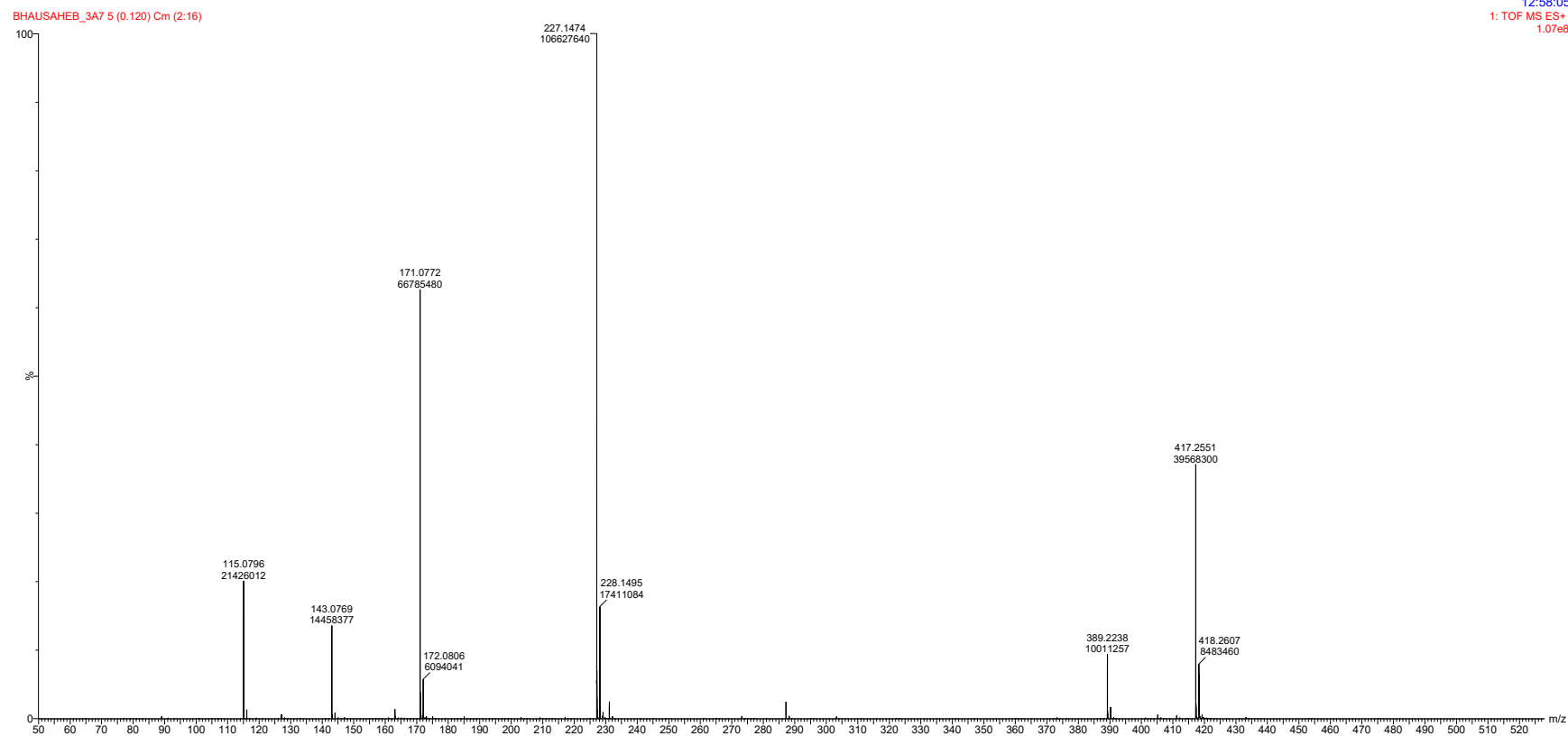
F2 - Acquisition Parameters
 Date_ 20240103
 Time 20.24 h
 INSTRUM Avance Neo 500
 PROBHD Z119470_0333 ()
 PULPROG deptsp135
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 8
 SWH 37037.035 Hz
 FIDRES 1.130281 Hz
 AQ 0.8847360 sec
 RG 101
 DW 13.500 usec
 DE 6.50 usec
 TE 300.1 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1
 SFO1 125.7779080 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 83.14099884 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 12.70300007 W
 SFO2 500.1720007 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 P3 10.00 usec
 P4 20.00 usec
 PCPD2 80.00 usec
 PLW2 20.93000031 W
 PLW12 0.32703000 W

F2 - Processing parameters
 SI 32768
 SF 125.7678465 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

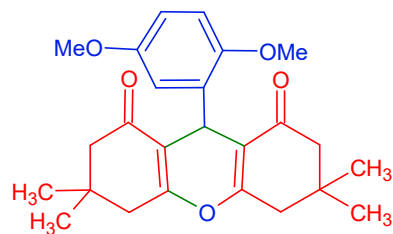
SAIF,PANJAB UNIVERSITY,CHANDIGARH

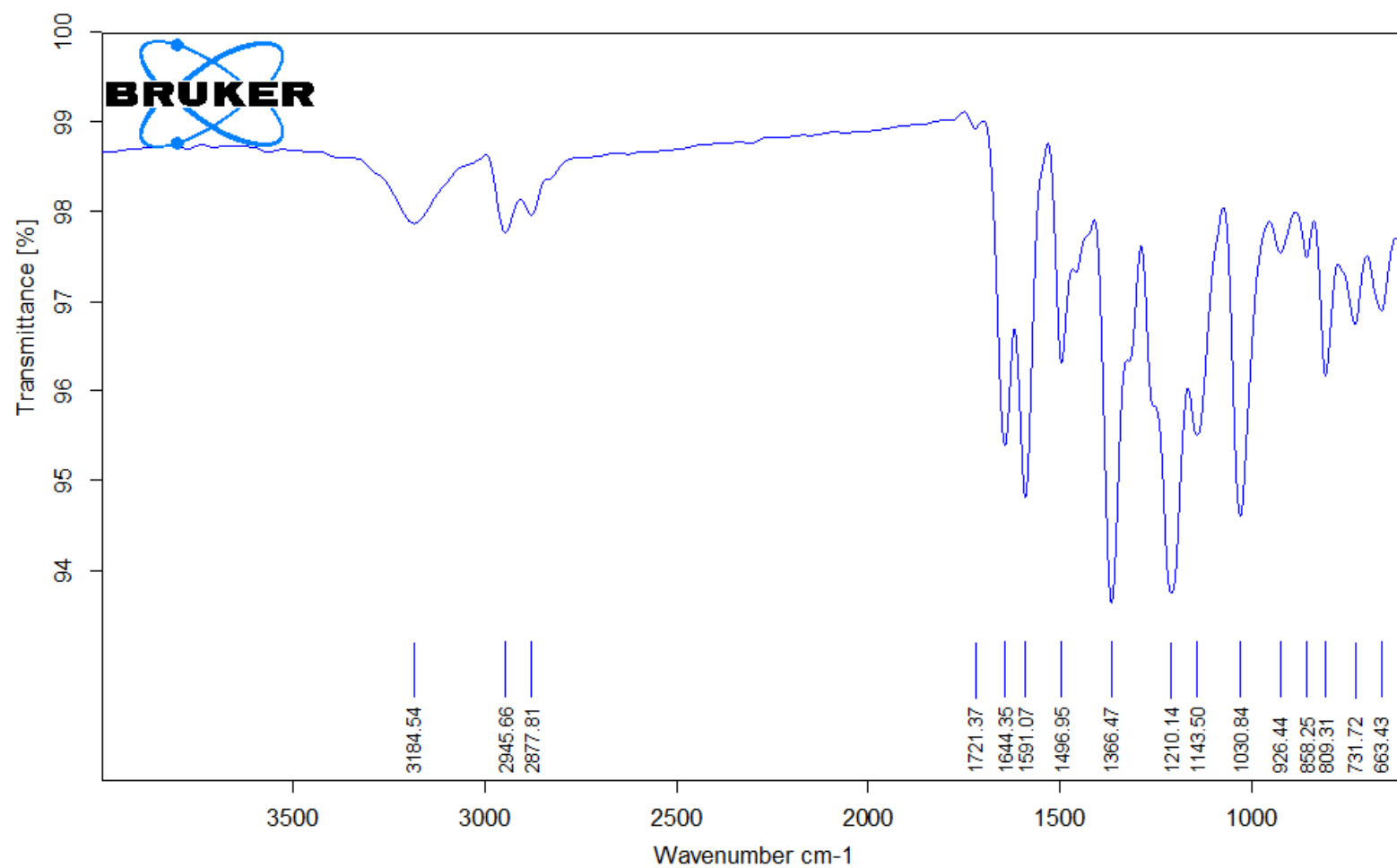
SYNAPT-XS#DBA064

09-Jan-2024
12:58:05
1: TOF MS ES+
1.07e8



3A8- 3,3,6,6-tetramethyl-9-(2-methoxy-5-methoxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





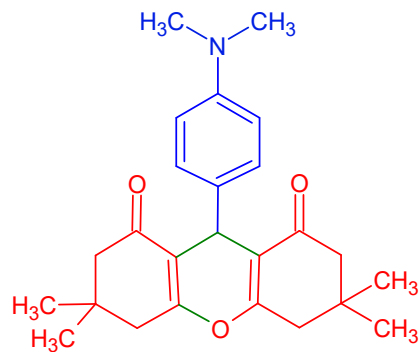
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\383

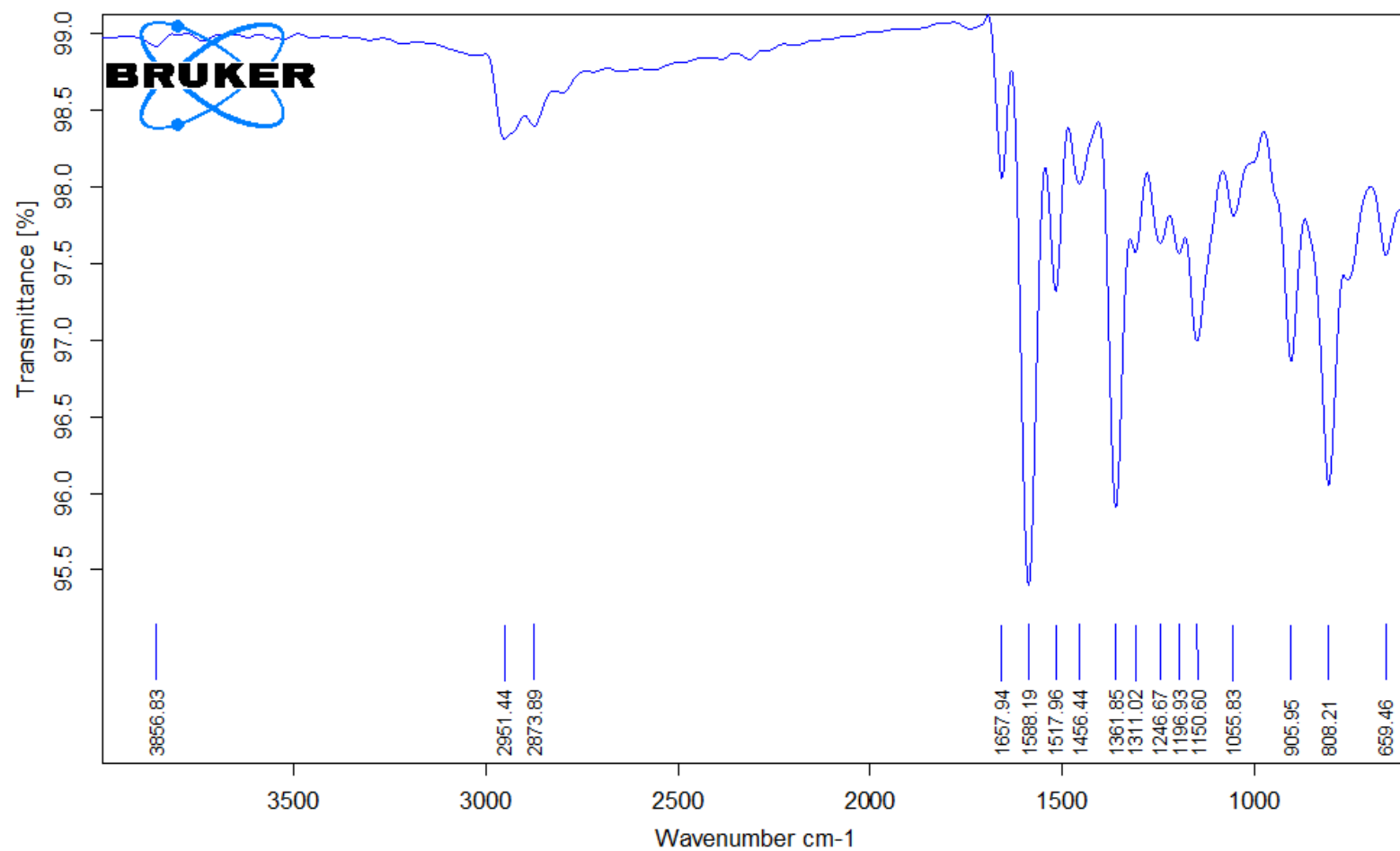
3A8

Instrument type and / or accessory

17/10/2024

3A9- 3,3,6,6-tetramethyl-9-(4-N,N-dimethylphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





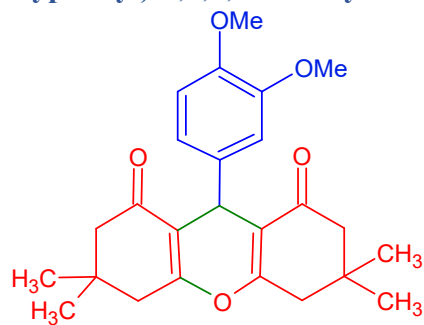
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\384

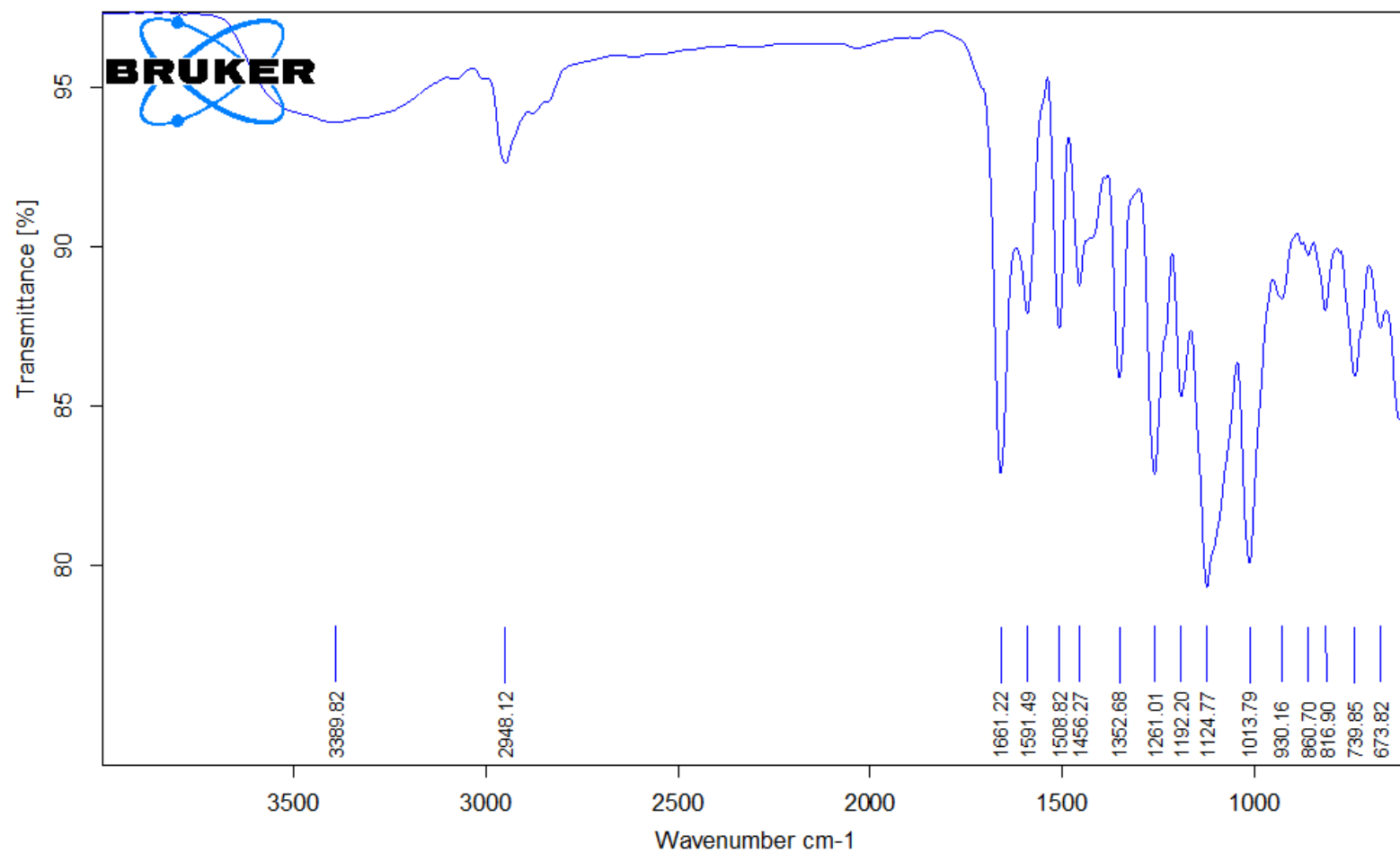
3A9

Instrument type and / or accessory

17/10/2024

3A10- 3,3,6,6-tetramethyl-9-(3-methoxy-4-methoxyphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





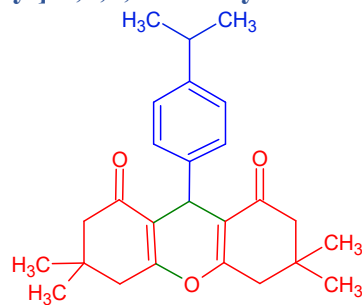
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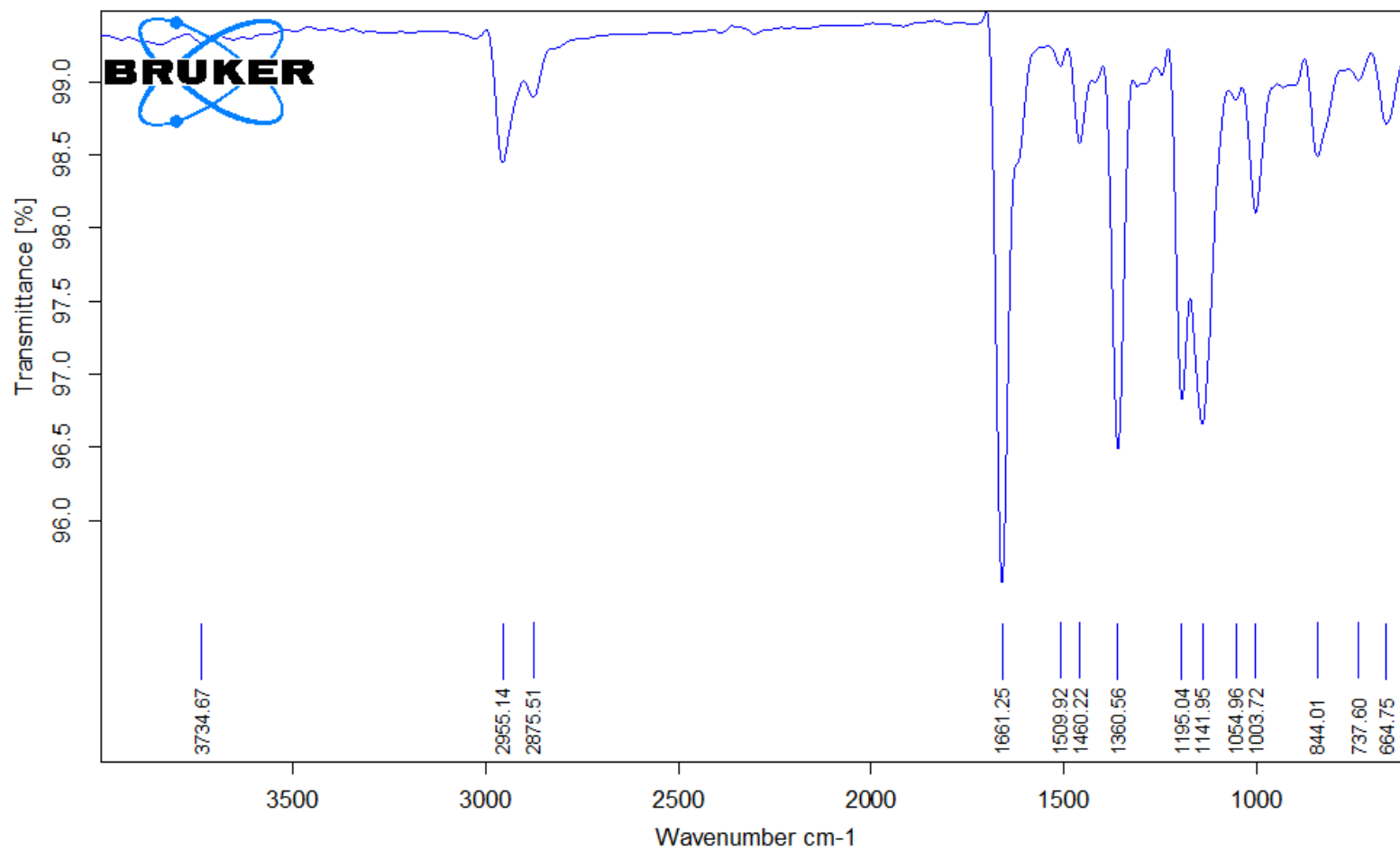
3A10

Instrument type and / or accessory

17/10/2024

3A11- 3,3,6,6-tetramethyl-9-[4-(Propane-2-yl)phenyl]-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





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3A11

Instrument type and / or accessory

17/10/2024

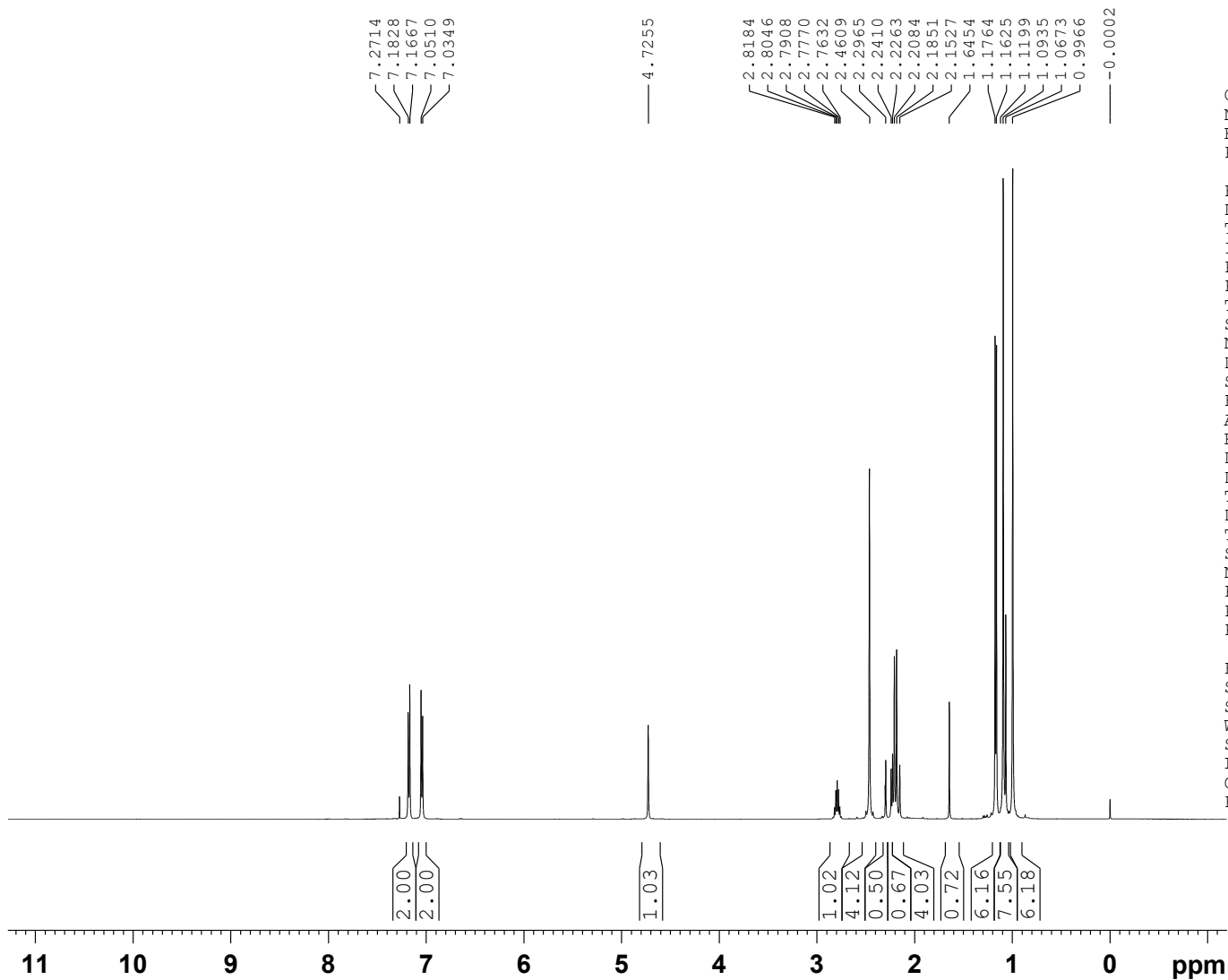
3A11
1H_8scan CDC13 {D:\Spectra} nmr 33

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
NAME Jan03-2024
EXPNO 330
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time 20.27 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 34.0557
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700061 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



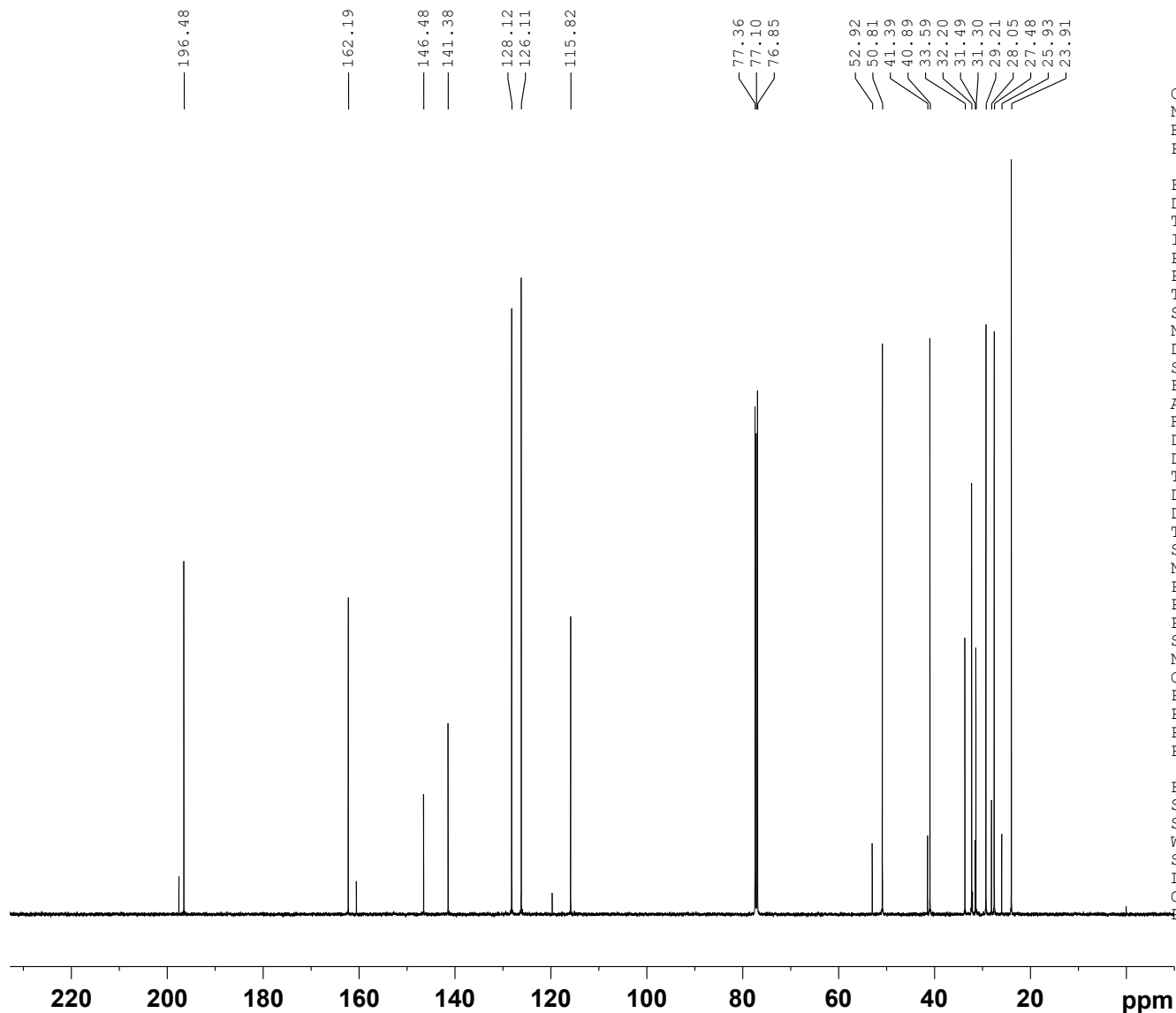
3A11
C13CPD CDC13 {D:\Spectra} nmr 33

BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

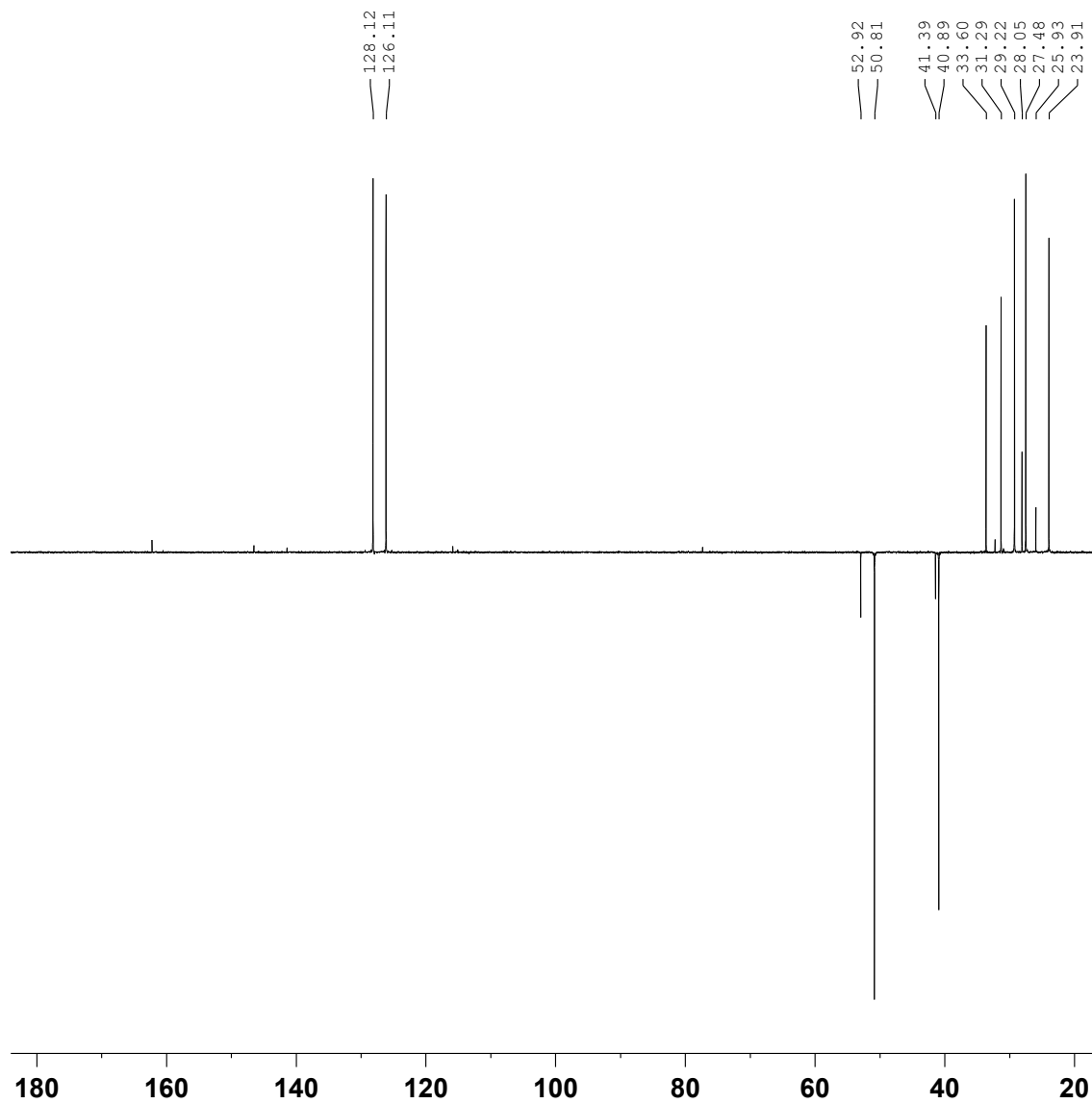
Current Data Parameters
NAME Jan03-2024
EXPNO 331
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 20.53 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



3A11
C13DEPT135 CDC13 {D:\Spectra} nmr 33



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

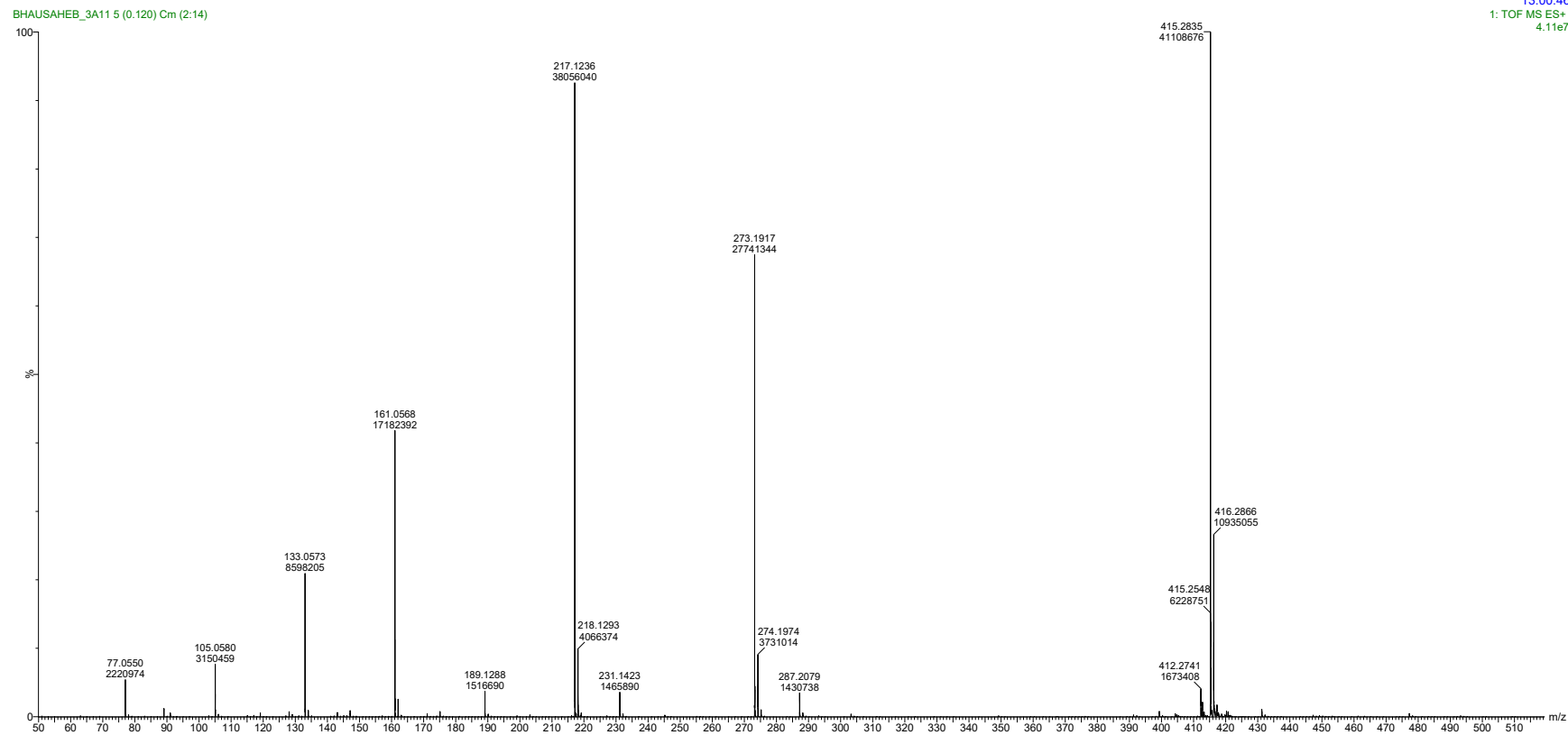
Current Data Parameters
NAME Jan03-2024
EXPNO 332
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time 21.06 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

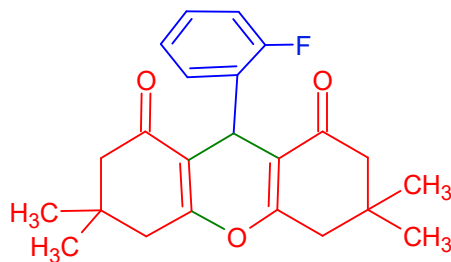
F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

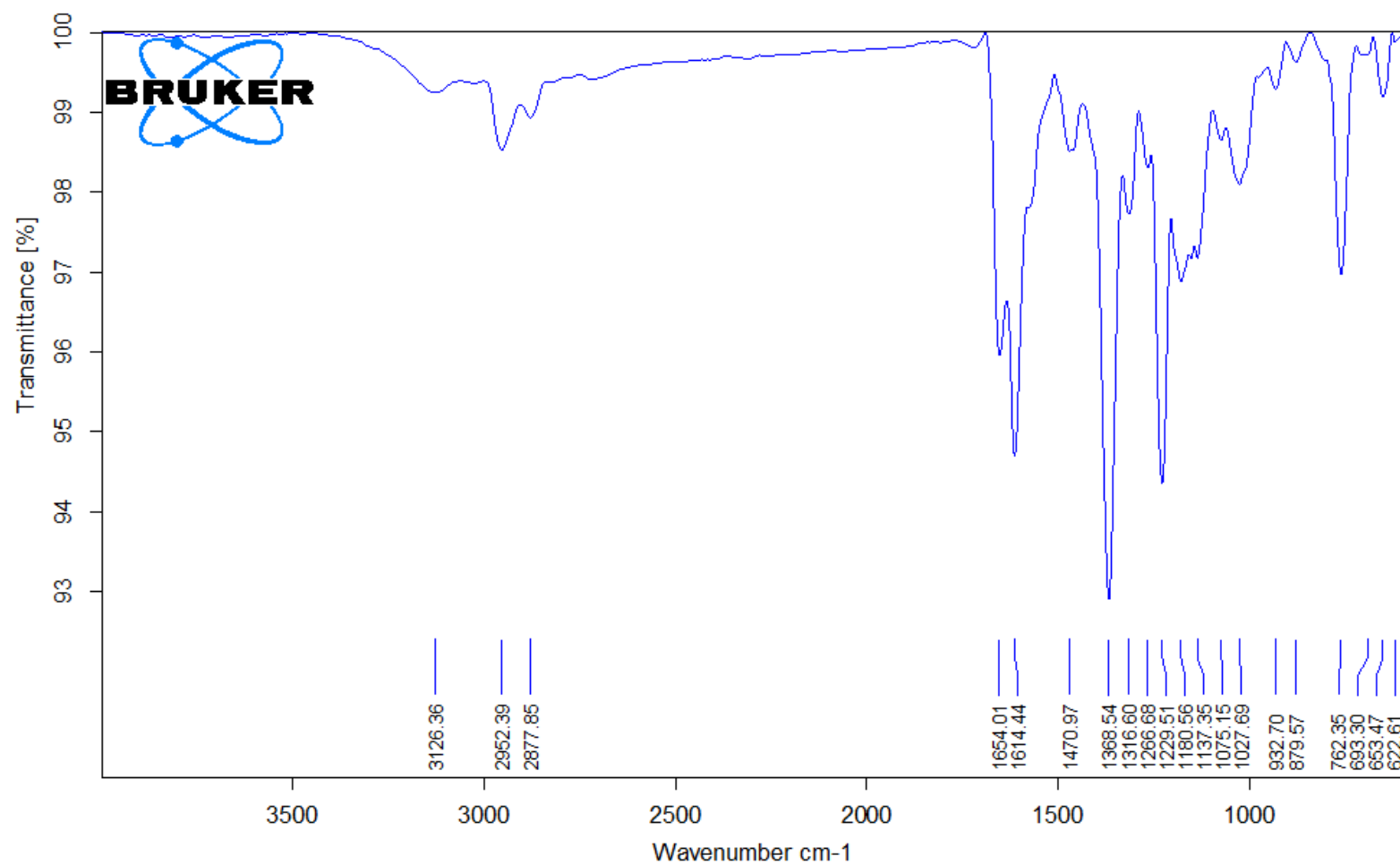
SAIF,PANJAB UNIVERSITY,CHANDIGARH

SYNAPT-XS#DBA064

09-Jan-2024
13:00:46
1: TOF MS ES+
4.11e7

3A12- 3,3,6,6-tetramethyl-9-(2-fluorophenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





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3A12

Instrument type and / or accessory

17/10/2024

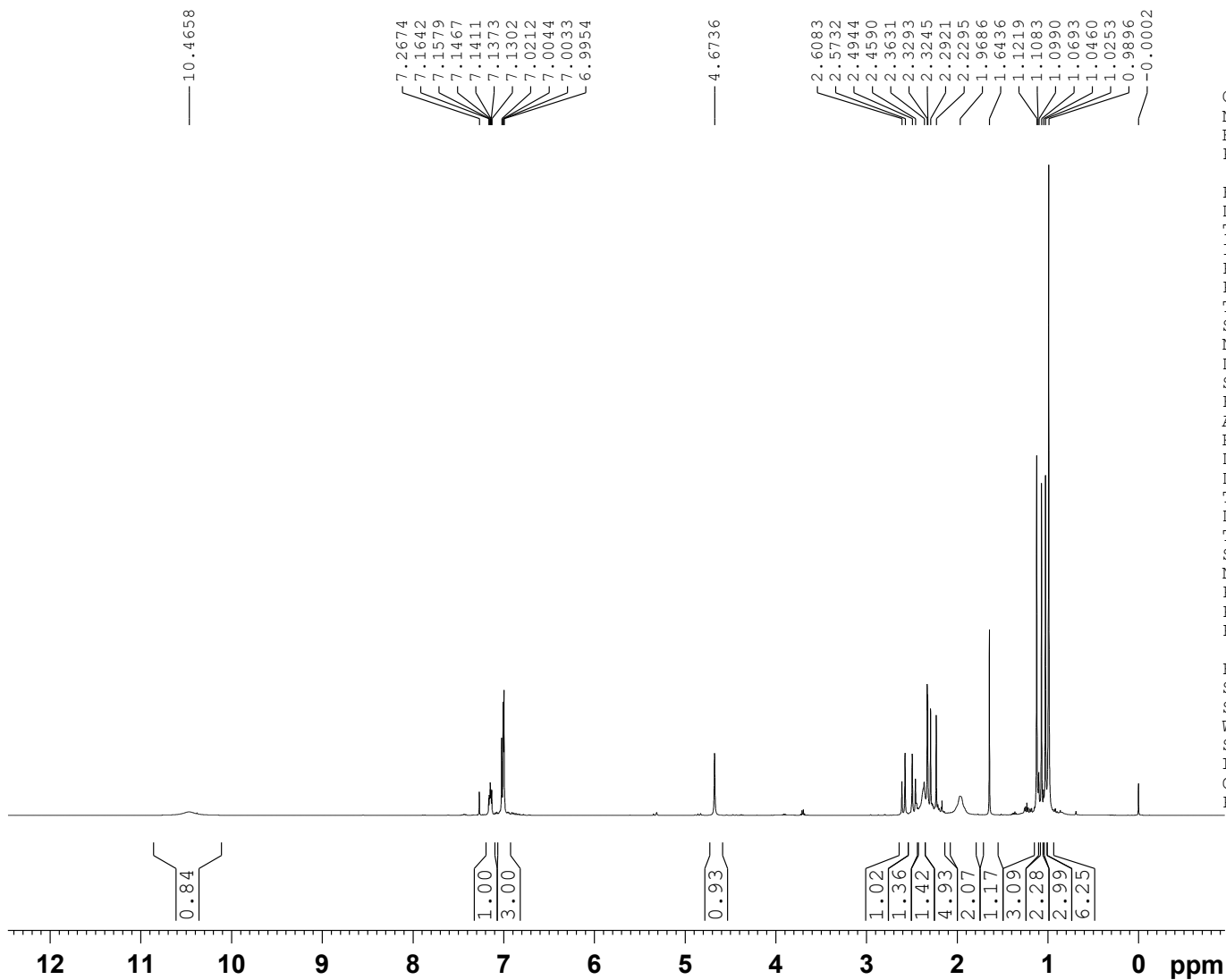
3A12
1H_8scan CDC13 {D:\Spectra} nmr 34

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
NAME Jan03-2024
EXPNO 340
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 21.09 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 51.0835
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700082 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



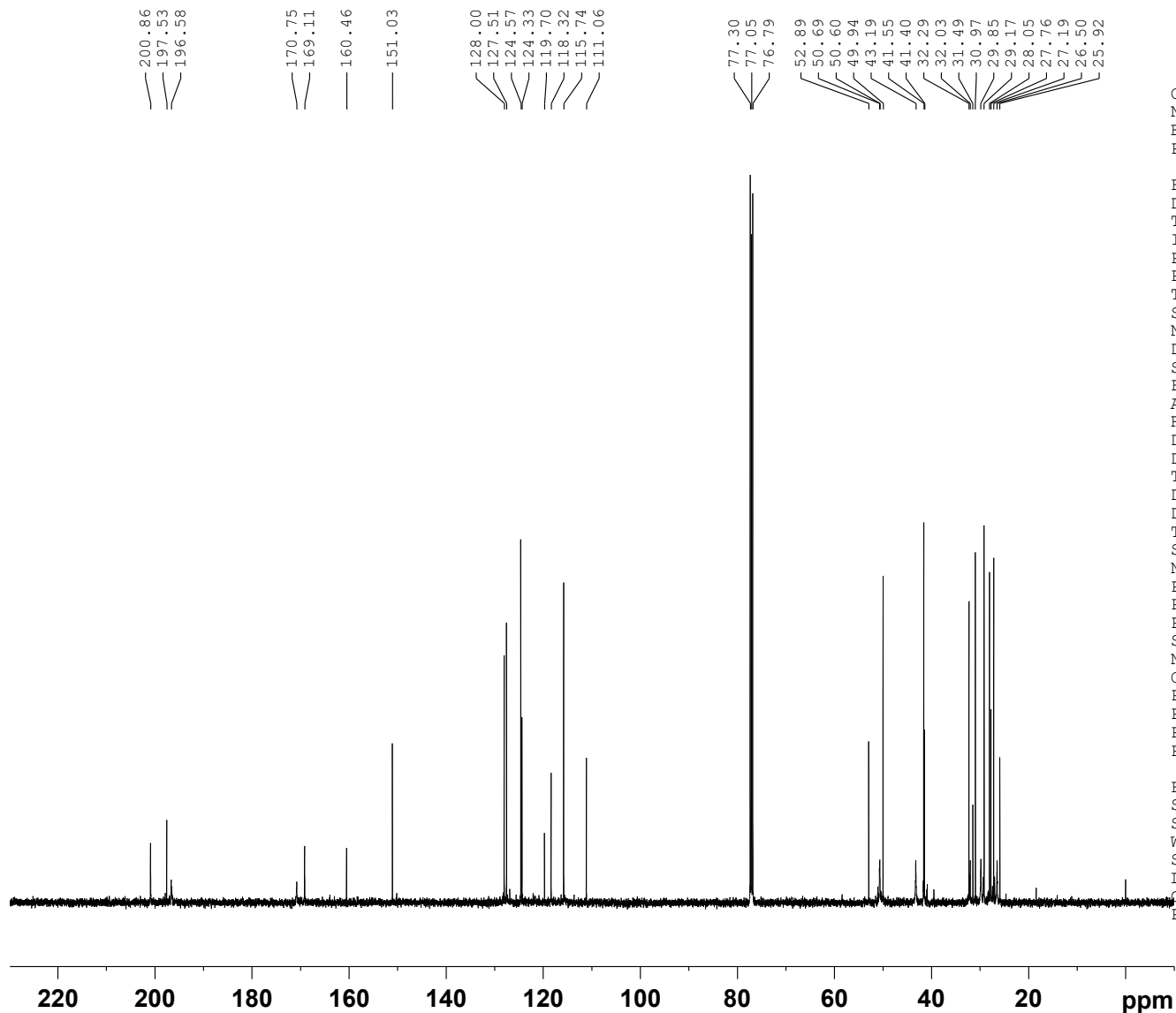
3A12
C13CPD CDC13 {D:\Spectra} nmr 34

BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

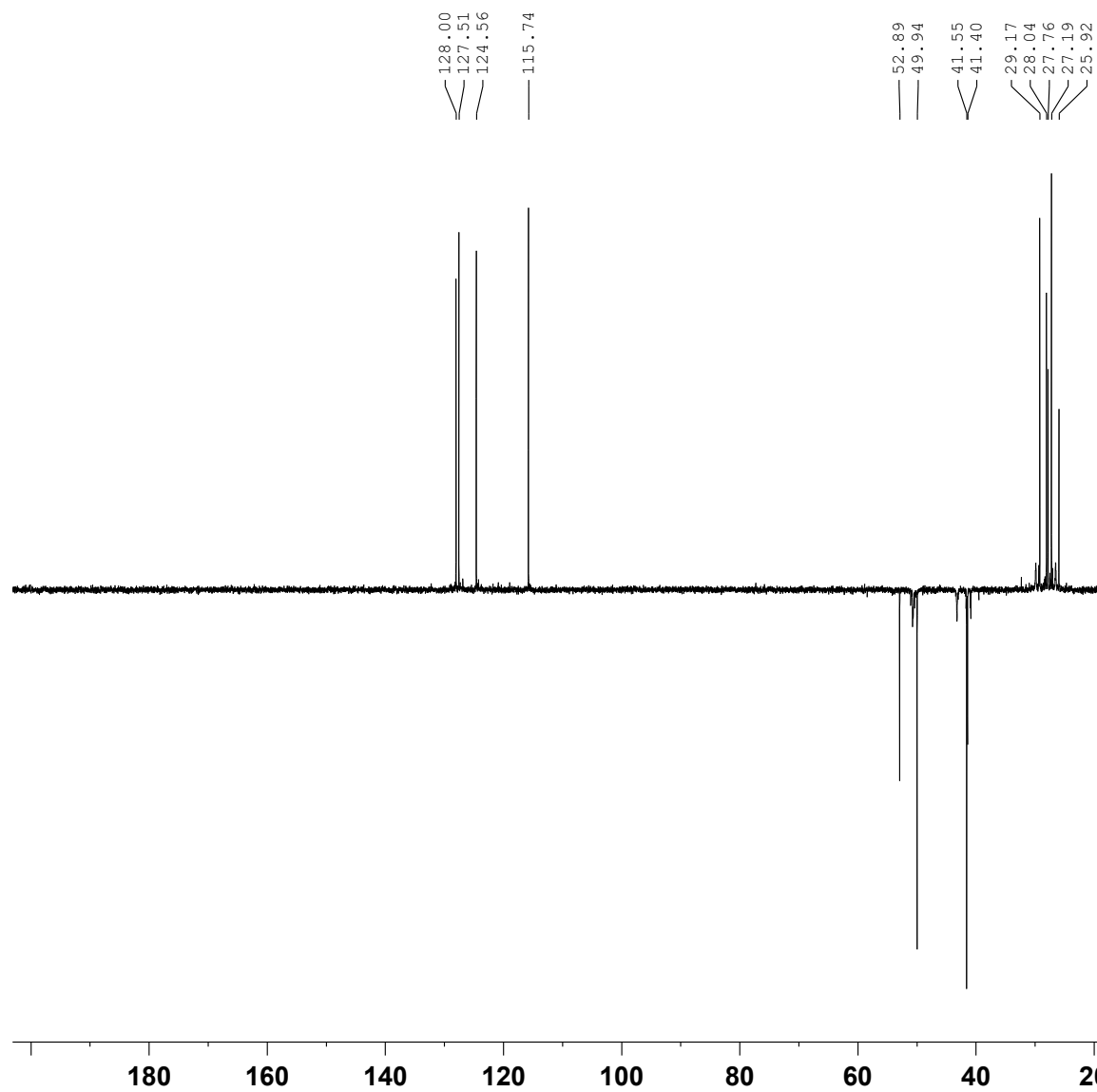
Current Data Parameters
NAME Jan03-2024
EXPNO 341
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 21.34 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



3A12
C13DEPT135 CDC13 {D:\Spectra} nmr 34



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 342
PROCNO 1

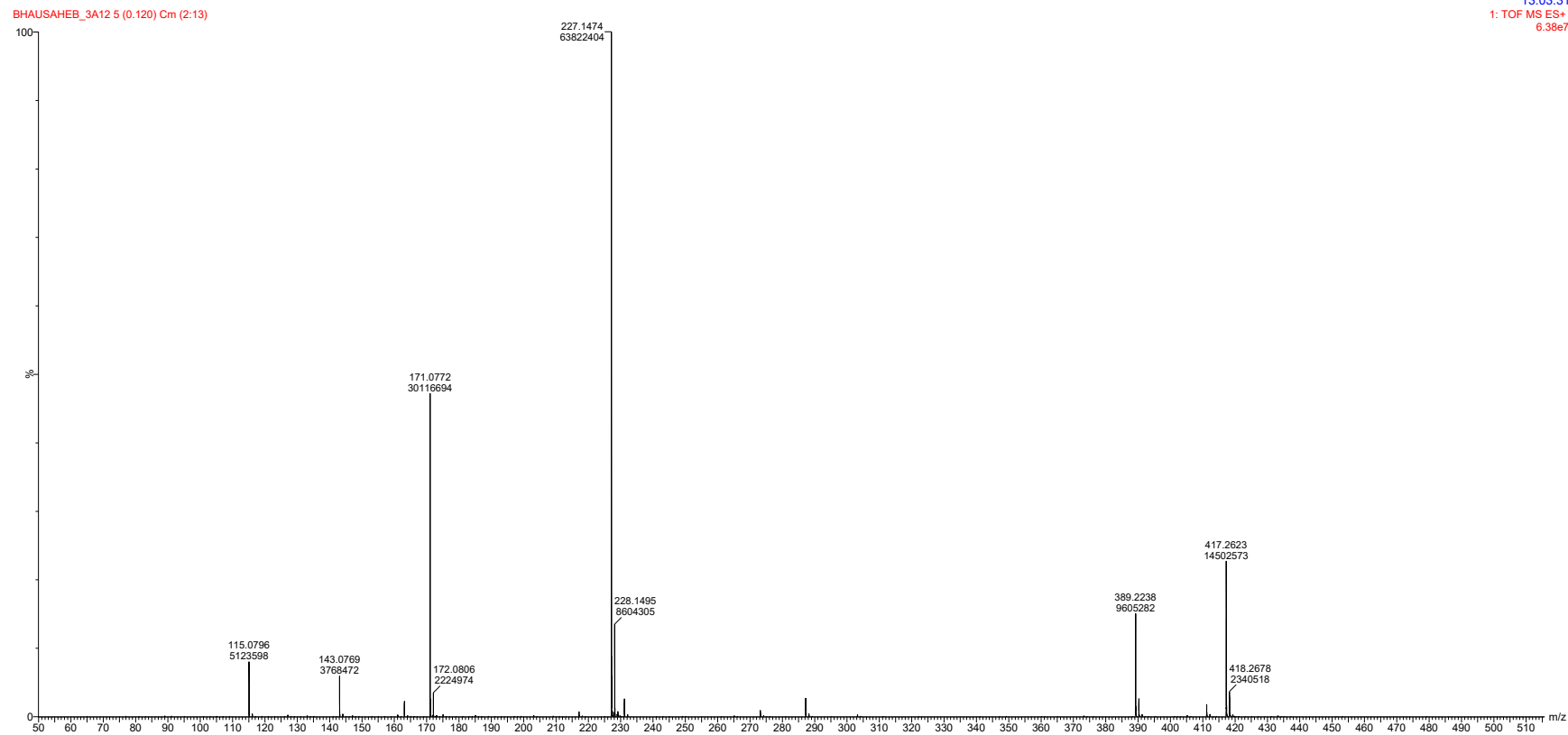
F2 - Acquisition Parameters
Date_ 20240103
Time_ 21.47 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 ()
PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

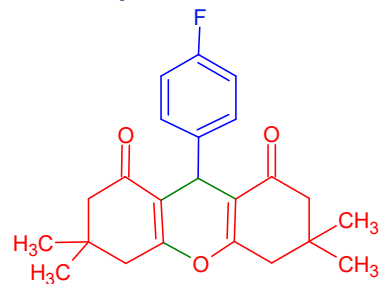
SAIF,PANJAB UNIVERSITY,CHANDIGARH

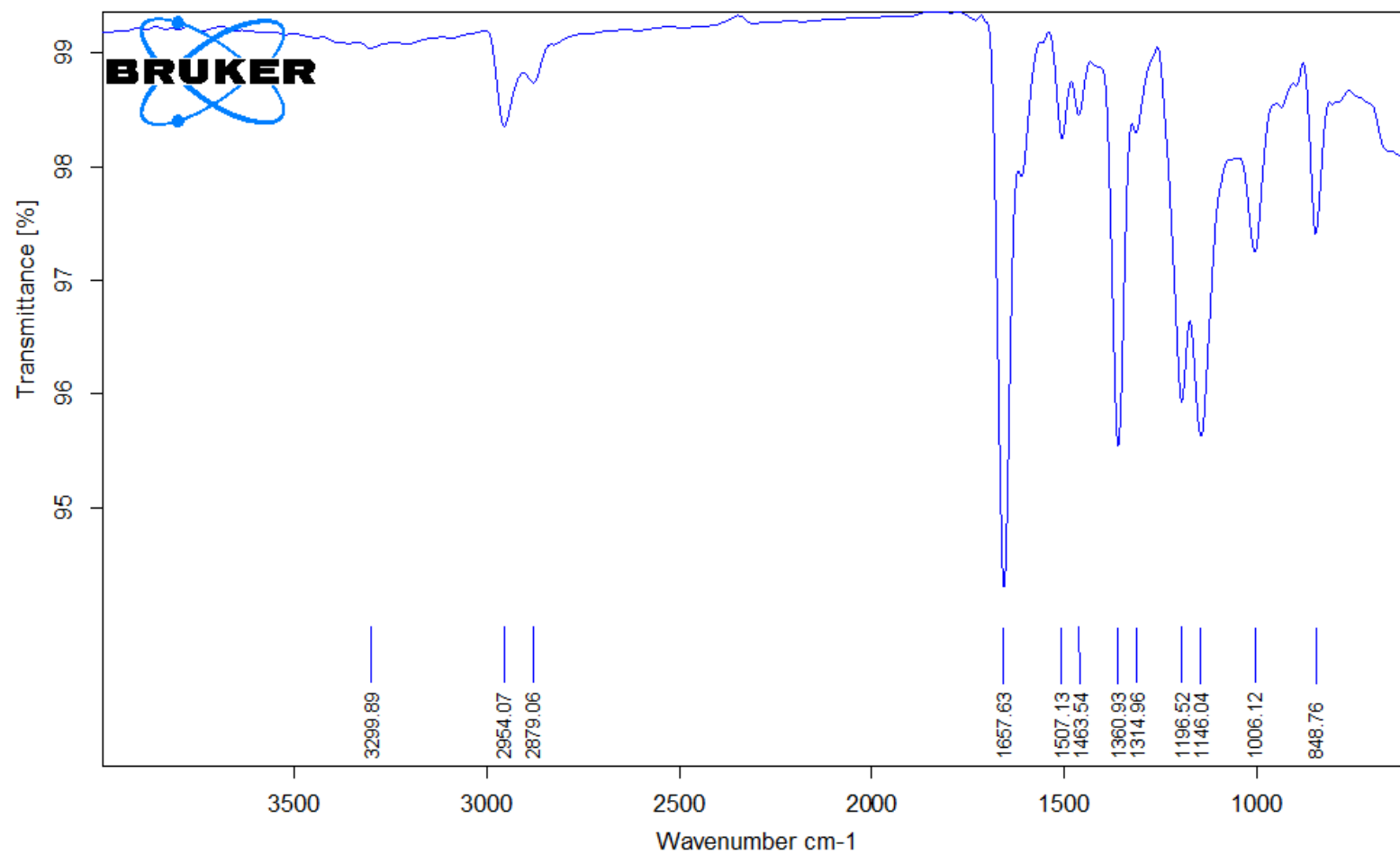
SYNAPT-XS#DBA064

09-Jan-2024
13:03:31
1: TOF MS ES+
6.38e7



3A13- 3,3,6,6-tetramethyl-9-(4-fluorophenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione





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3A13

Instrument type and / or accessory

17/10/2024

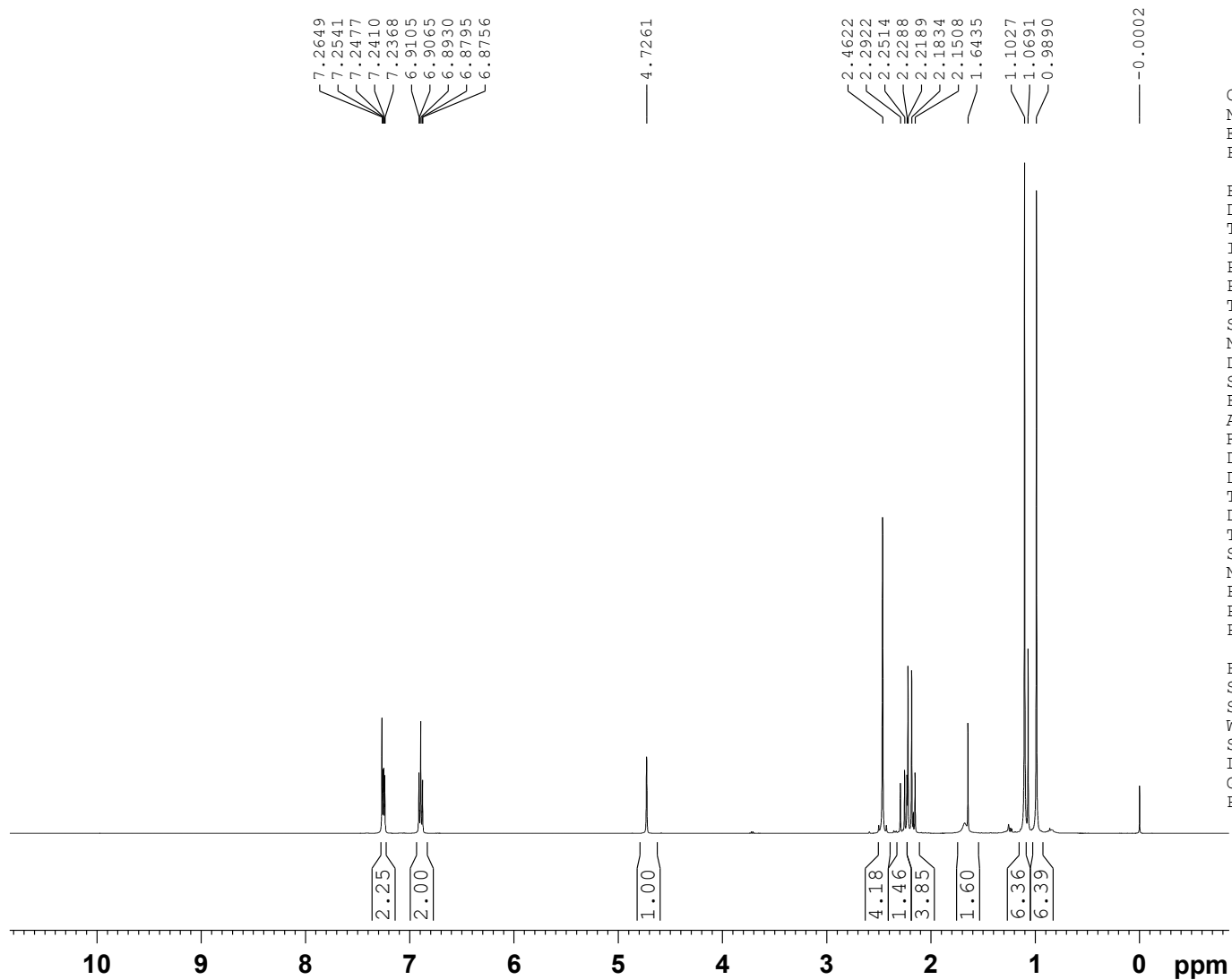
3A13
1H_8scan CDC13 {D:\Spectra} nmr 35

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

Current Data Parameters
NAME Jan03-2024
EXPNO 350
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time_ 21.50 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 95.7854
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



3A13

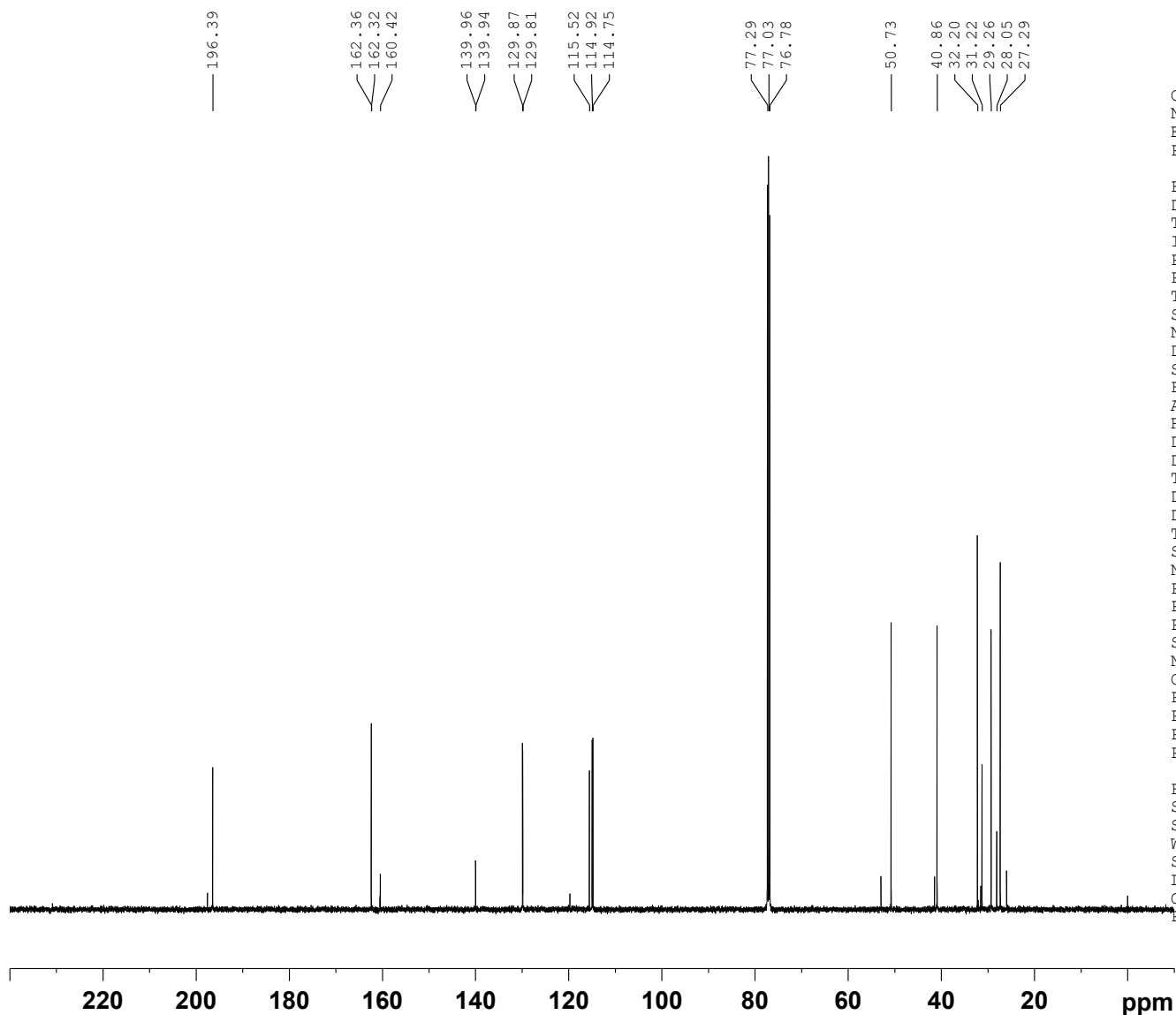
C13CPD CDC13 {D:\Spectra} nmr 35

BRUKER
 AVANCE NEO
 500 MHz NMR SPECTROMETER
 SAIF, PANJAB UNIVERSITY,
 CHANDIGARH

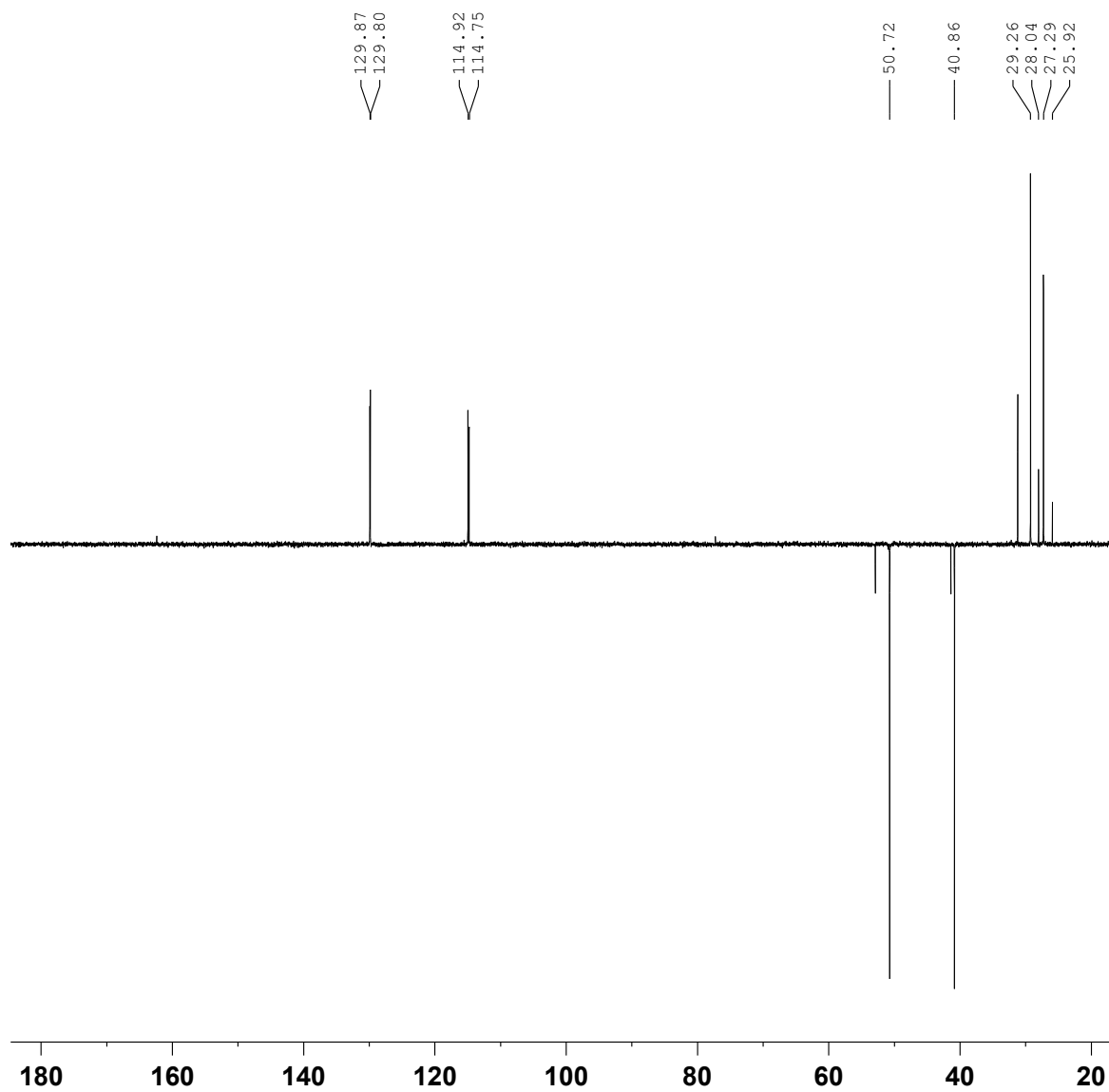
Current Data Parameters
 NAME Jan03-2024
 EXPNO 351
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20240103
 Time_ 22.16 h
 INSTRUM Avance Neo 500
 PROBHD Z119470_0333 (
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 512
 DS 4
 SWH 37037.035 Hz
 FIDRES 1.130281 Hz
 AQ 0.8847360 sec
 RG 101
 DW 13.500 usec
 DE 6.50 usec
 TE 300.1 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 125.7804233 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 83.14099884 W
 SFO2 500.1720007 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 80.00 usec
 PLW2 20.93000031 W
 PLW12 0.32703000 W
 PLW13 0.16449000 W

F2 - Processing parameters
 SI 32768
 SF 125.7678465 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



3A13
C13DEPT135 CDC13 {D:\Spectra} nmr 35

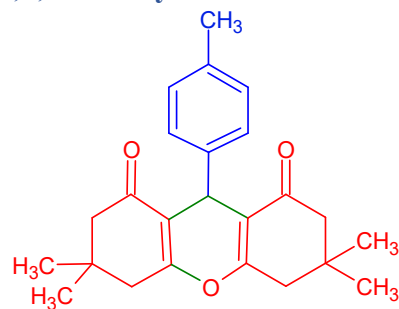


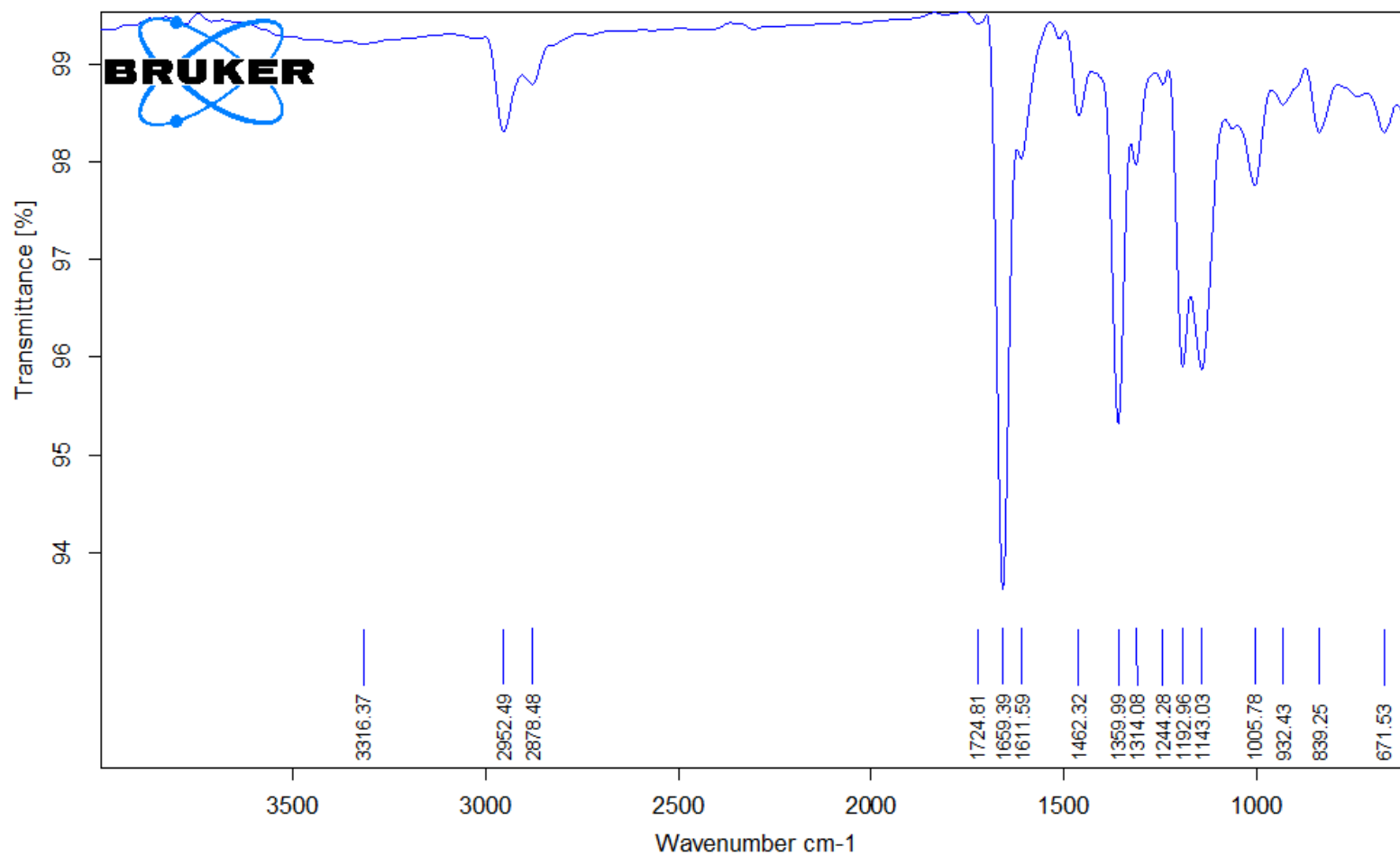
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Jan03-2024
EXPNO 352
PROCNO 1

F2 - Acquisition Parameters
Date_ 20240103
Time 22.29 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG deptsp135
TD 65536
SOLVENT CDC13
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3A14- 3,3,6,6-tetramethyl-9-(4-methylphenyl)-4,5,7,9-tetrahydro-2H-xanthene-1,8-dione

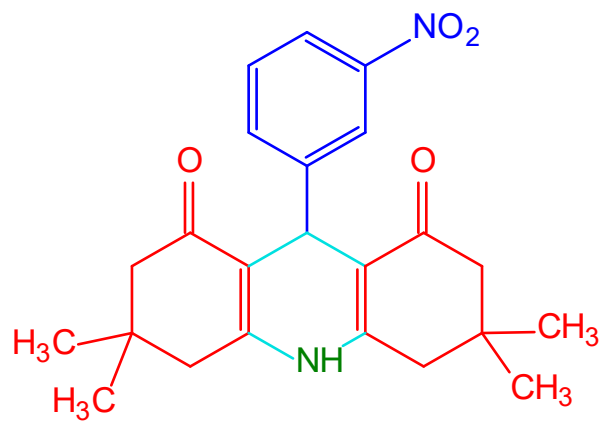


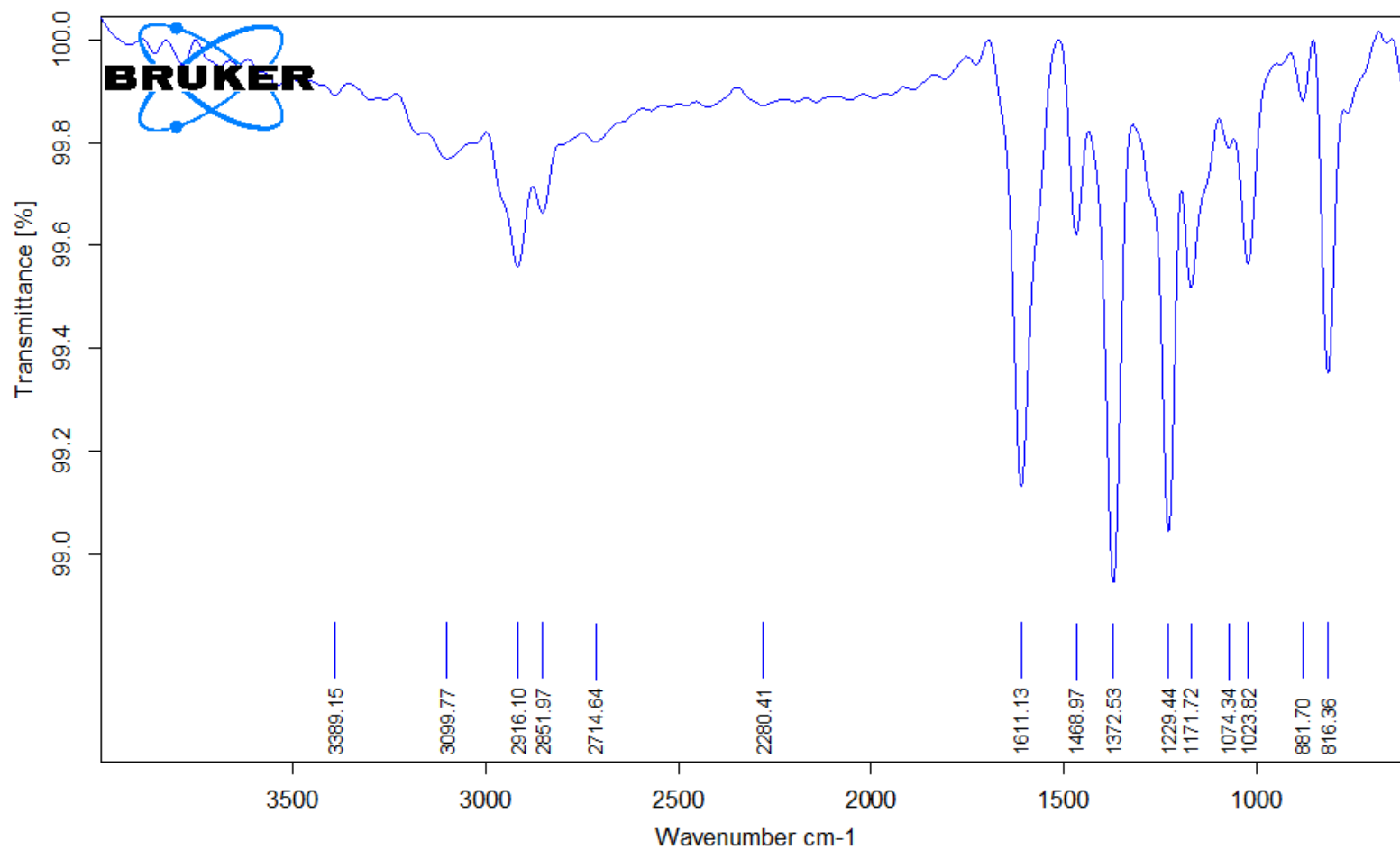
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\389

3A14

Instrument type and / or accessory

17/10/2024

D1- 3,4,6,7-tetrahydro-9-(3-nitrophenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione

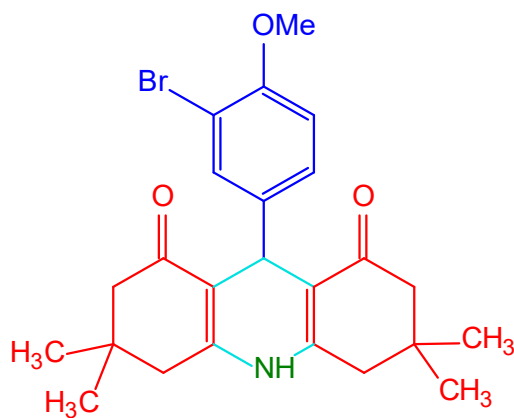


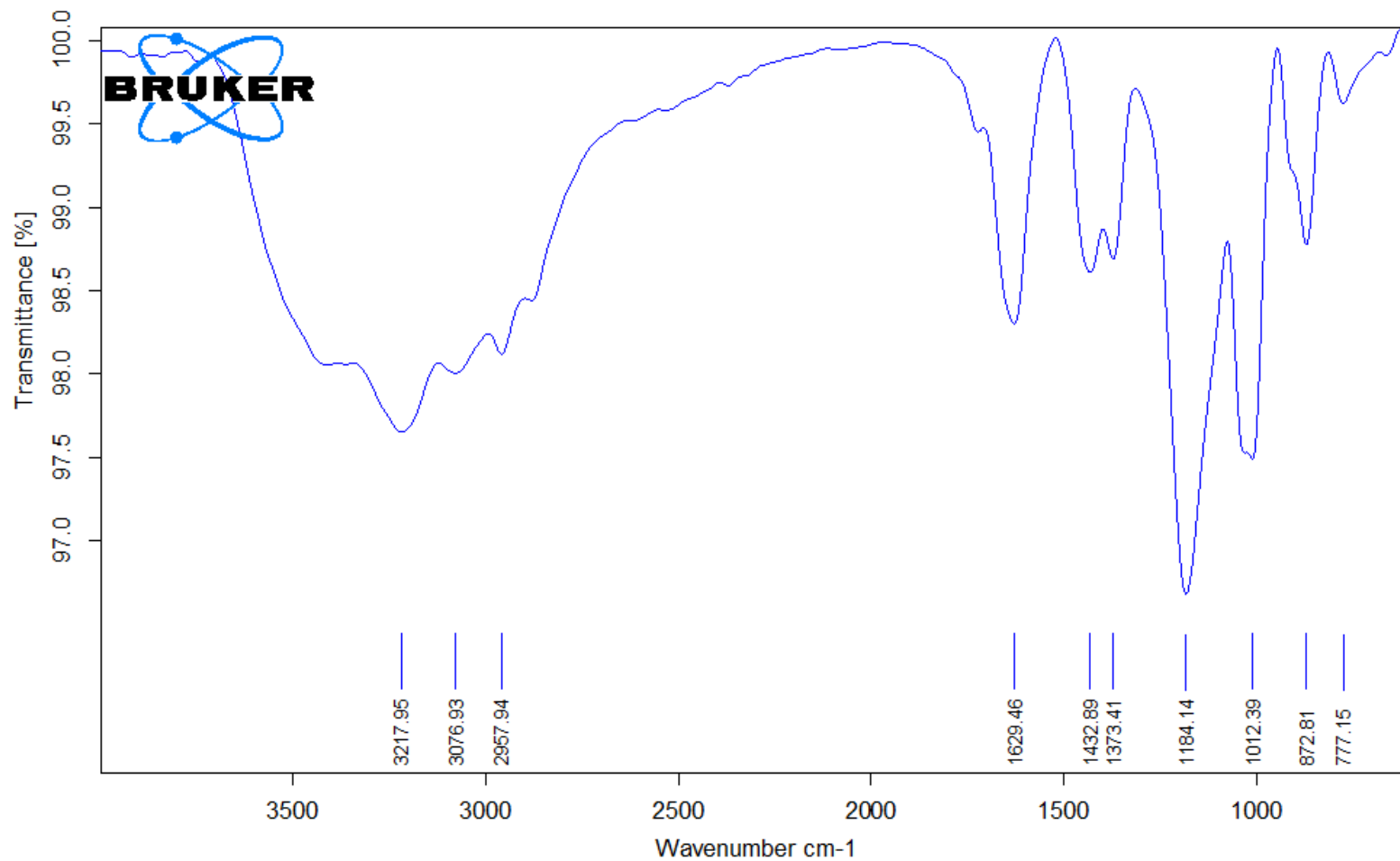
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\429

D1 chlorofom

Instrument type and / or accessory

14/11/2024

D2- 3,4,6,7-tetrahydro-9-(3-bromo-4-methoxyphenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione

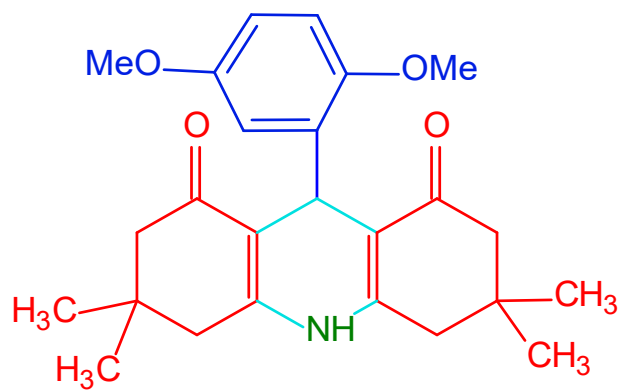


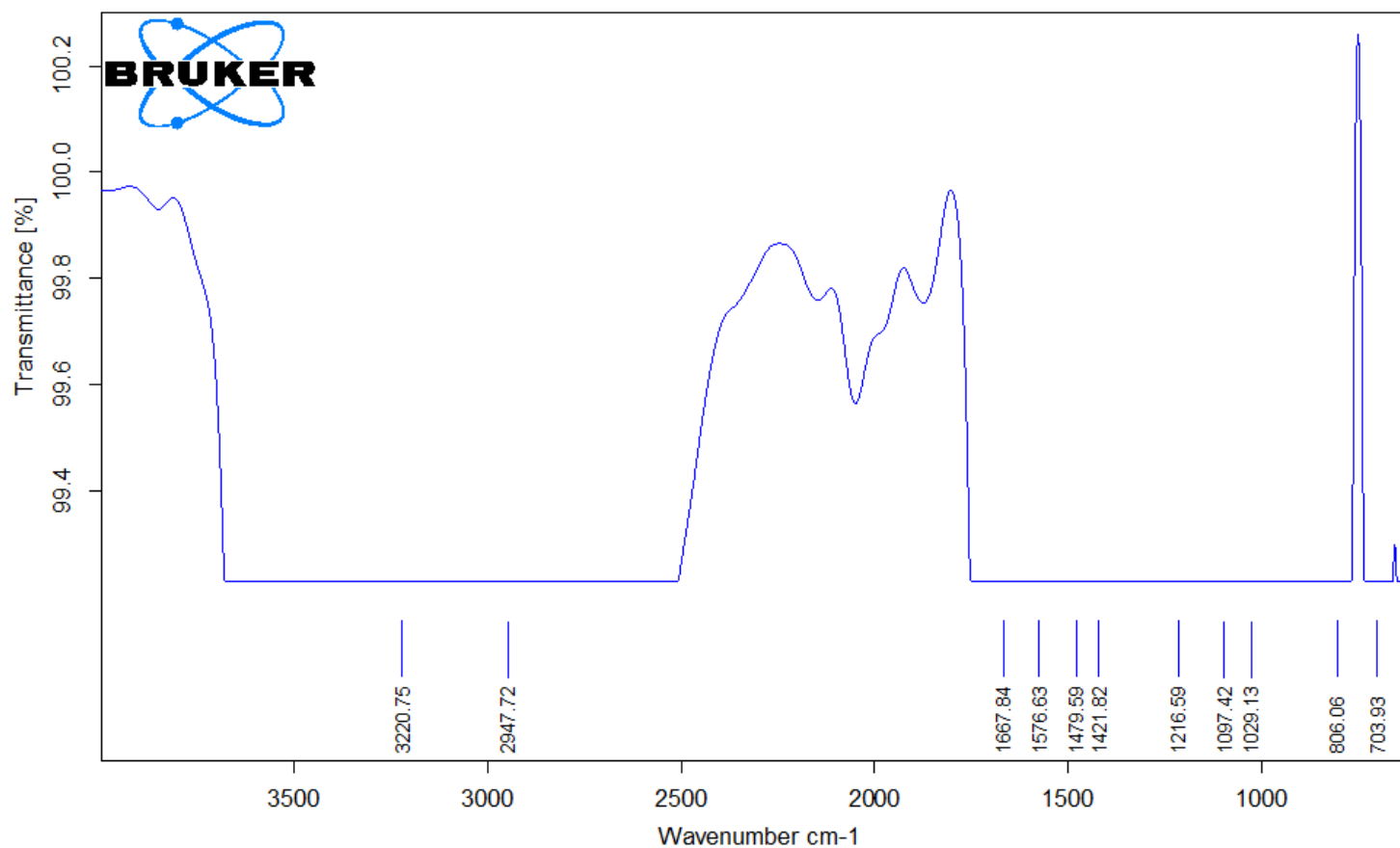
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\430

D2 chlorofom

Instrument type and / or accessory

14/11/2024

D3- 3,4,6,7-tetrahydro-9-(2,5-dimethoxyphenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione

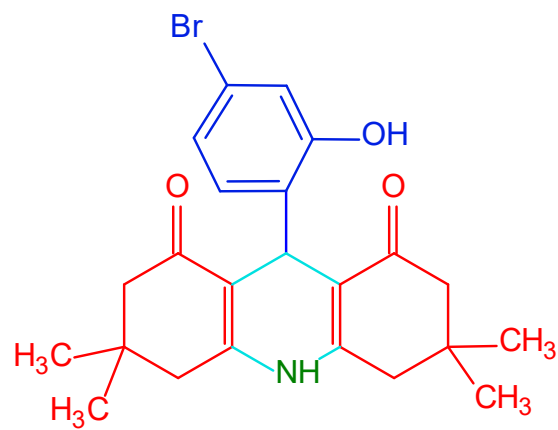


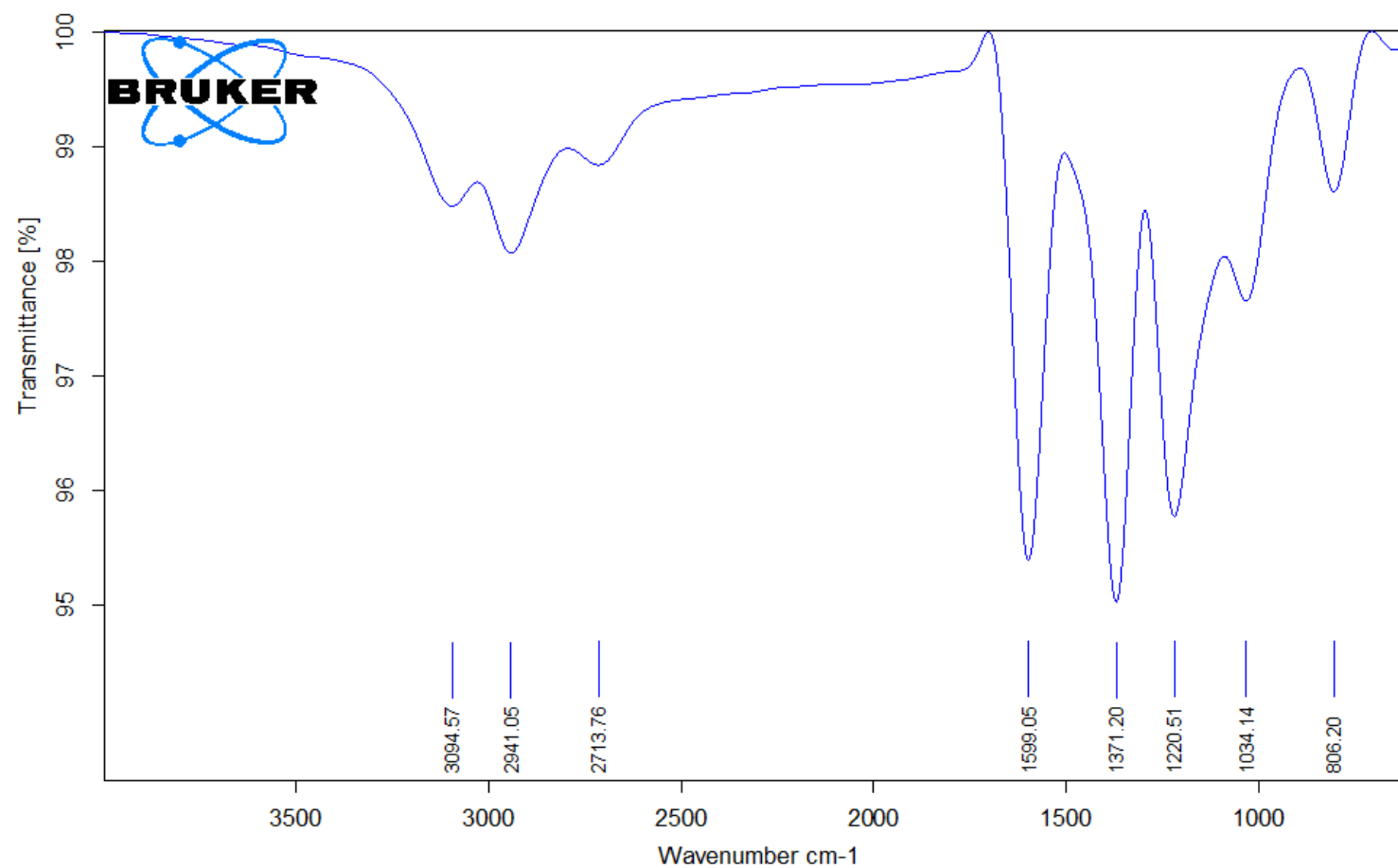
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\603

D3

Instrument type and / or accessory

11/02/2025

D4- 3,4,6,7-tetrahydro-9-(2-hydroxy-4-bromophenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione

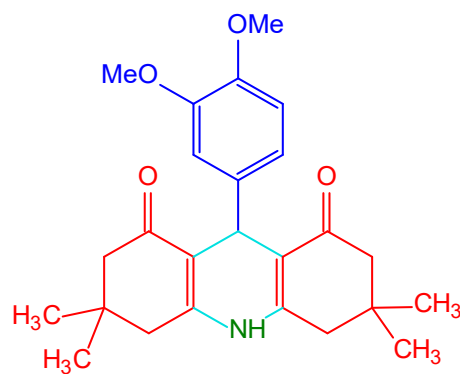


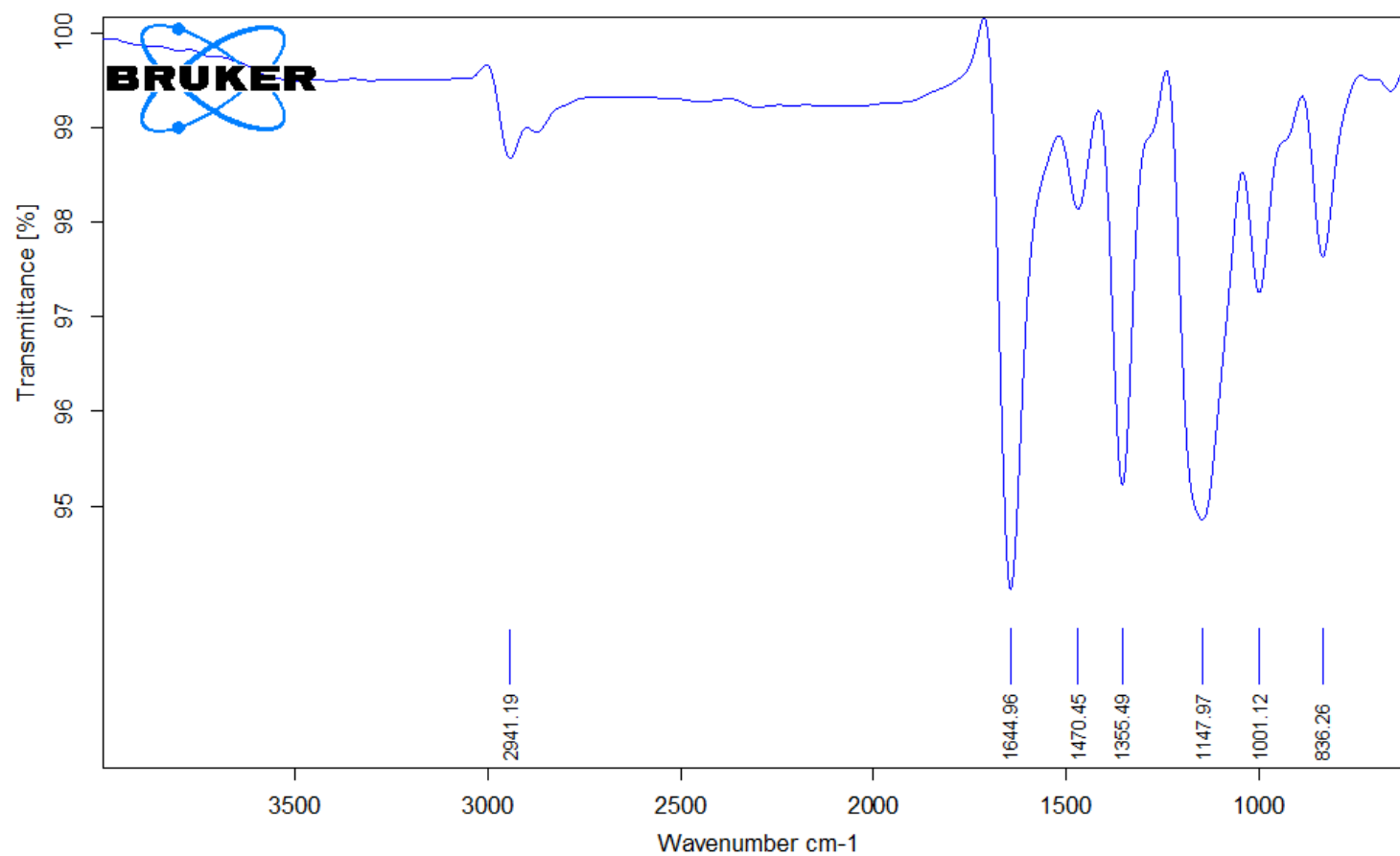
C:\Users\Public\Documents\Bruker\OPUS_7.5.18\DATA\MEAS\Honey48.0

D4

Instrument type and / or accessory

02/04/2025

D5- 3,4,6,7-tetrahydro-9-(3,4-dimethoxyphenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione



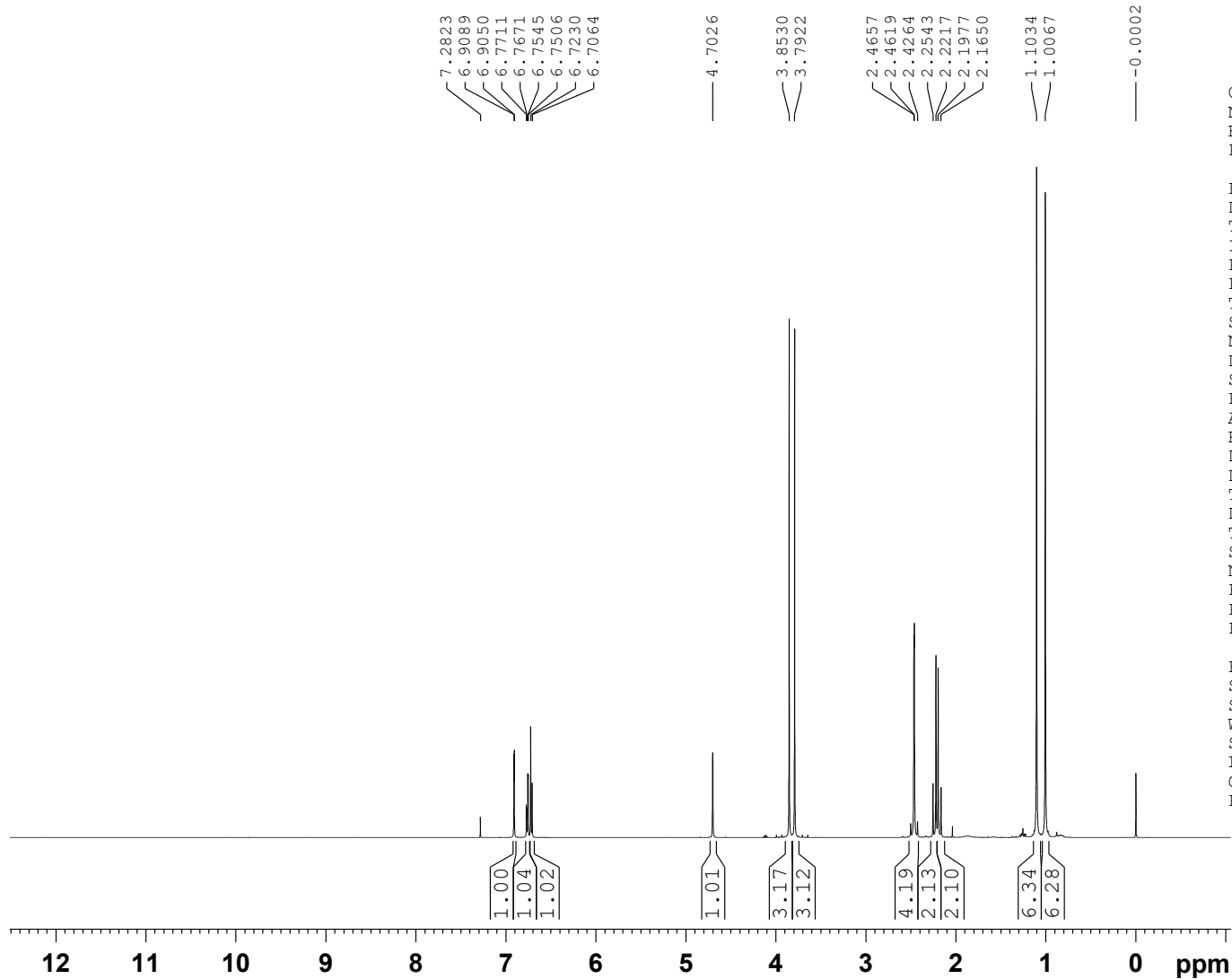
D5
1H_8scan CDC13 {D:\Spectra} nmr 15

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

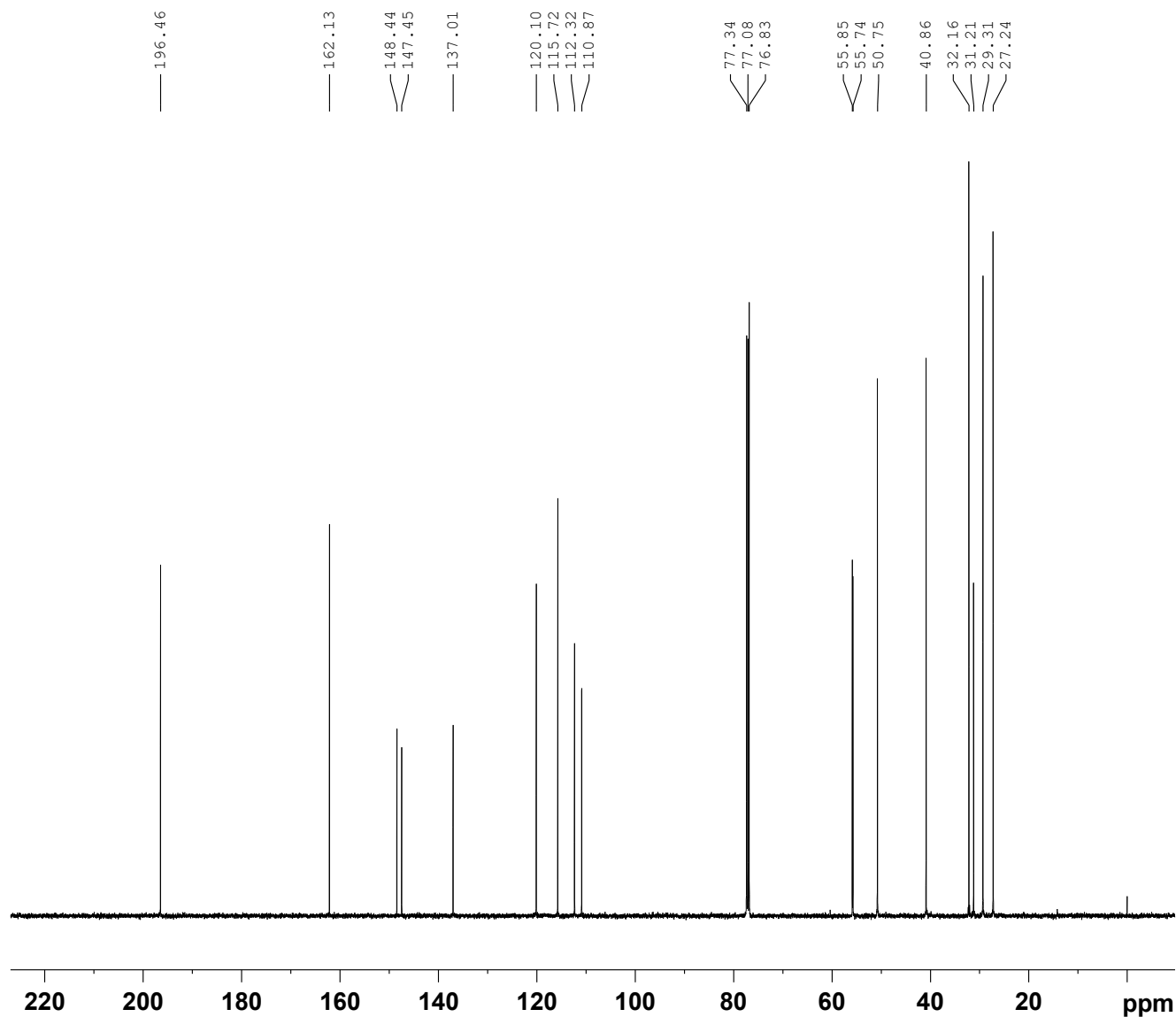
Current Data Parameters
NAME Apr17-2025
EXPNO 150
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time 12.48 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 51.0835
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700005 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



D5
C13CPD CDC13 {D:\Spectra} nmr 15



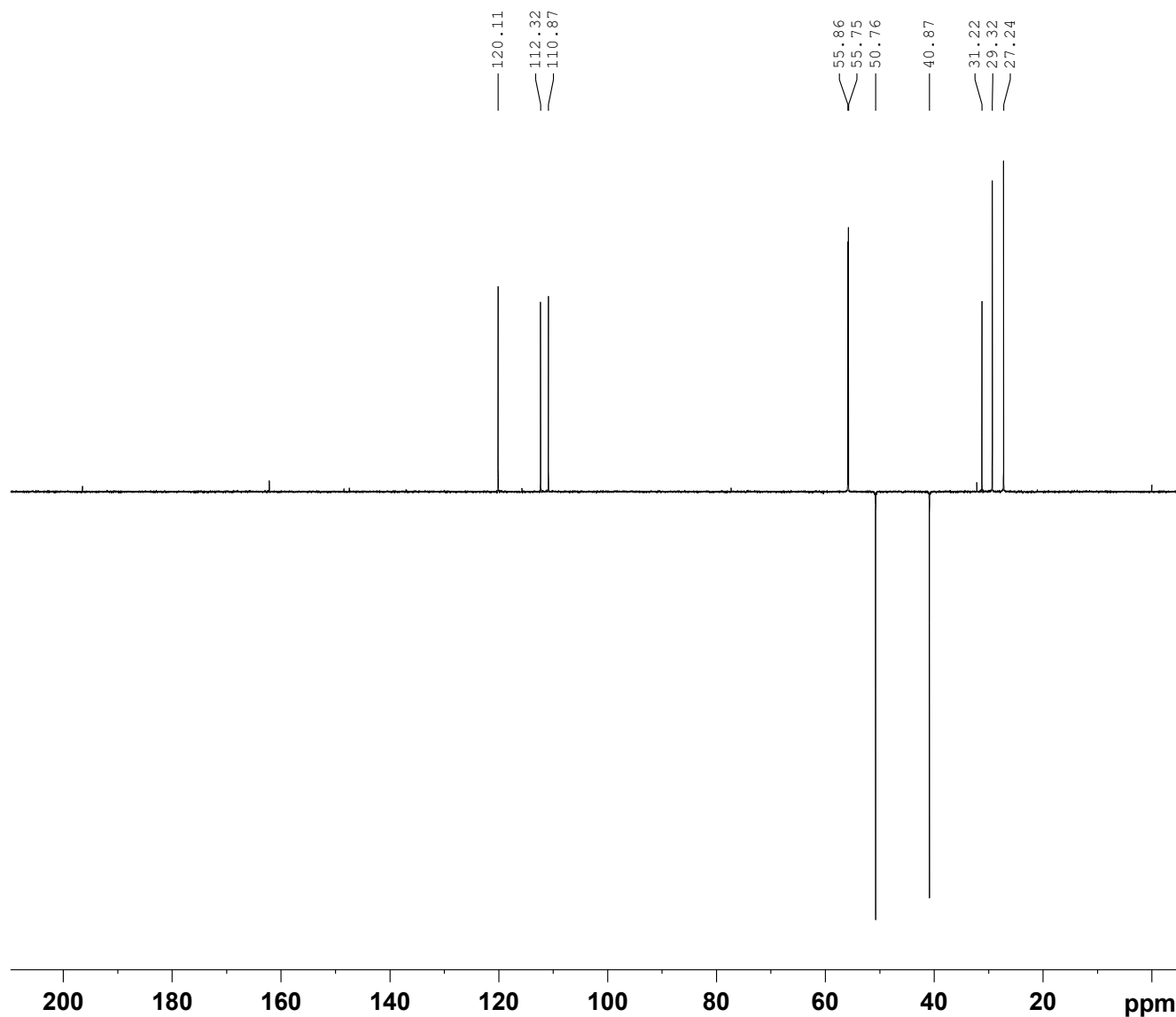
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Apr17-2025
EXPNO 151
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time_ 13.14 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678476 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

D5
C13DEPT135 CDC13 {D:\Spectra} nmr 15



BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Apr17-2025
EXPNO 152
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time 13.27 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (PULPROG deptsp135)
TD 65536
SOLVENT CDC13
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.000000
D1 2.0000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

SAIF,PANJAB UNIVERSITY,CHANDIGARH

SYNAPT-XS#DBA064

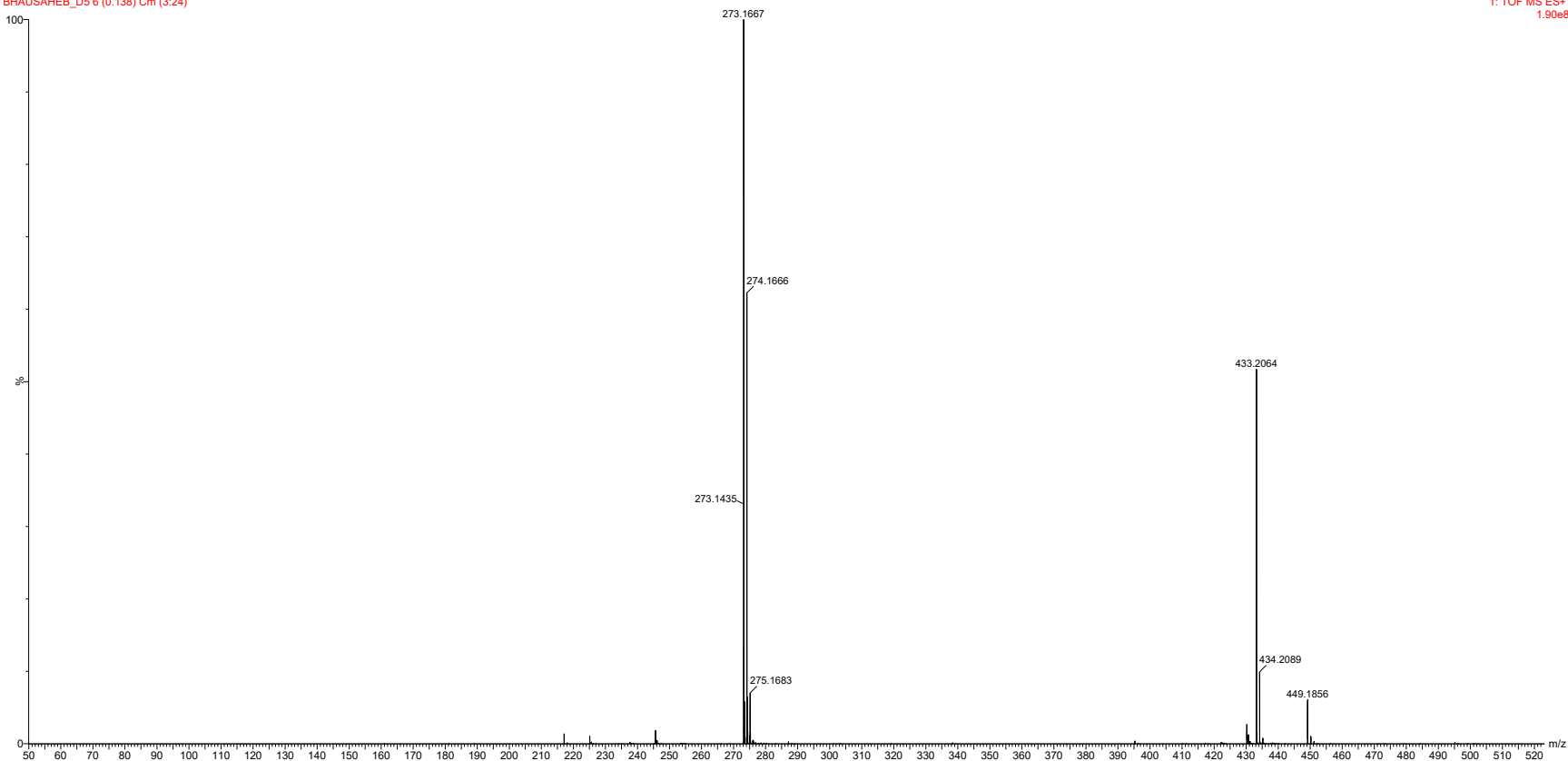
05-Sep-2025

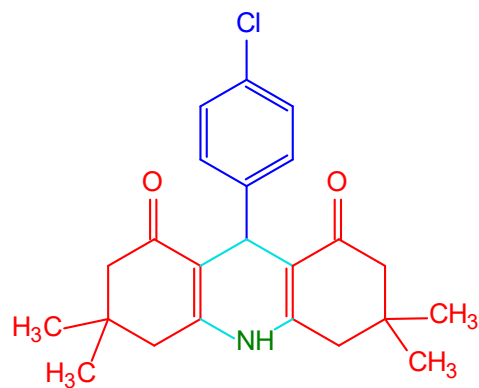
13:49:35

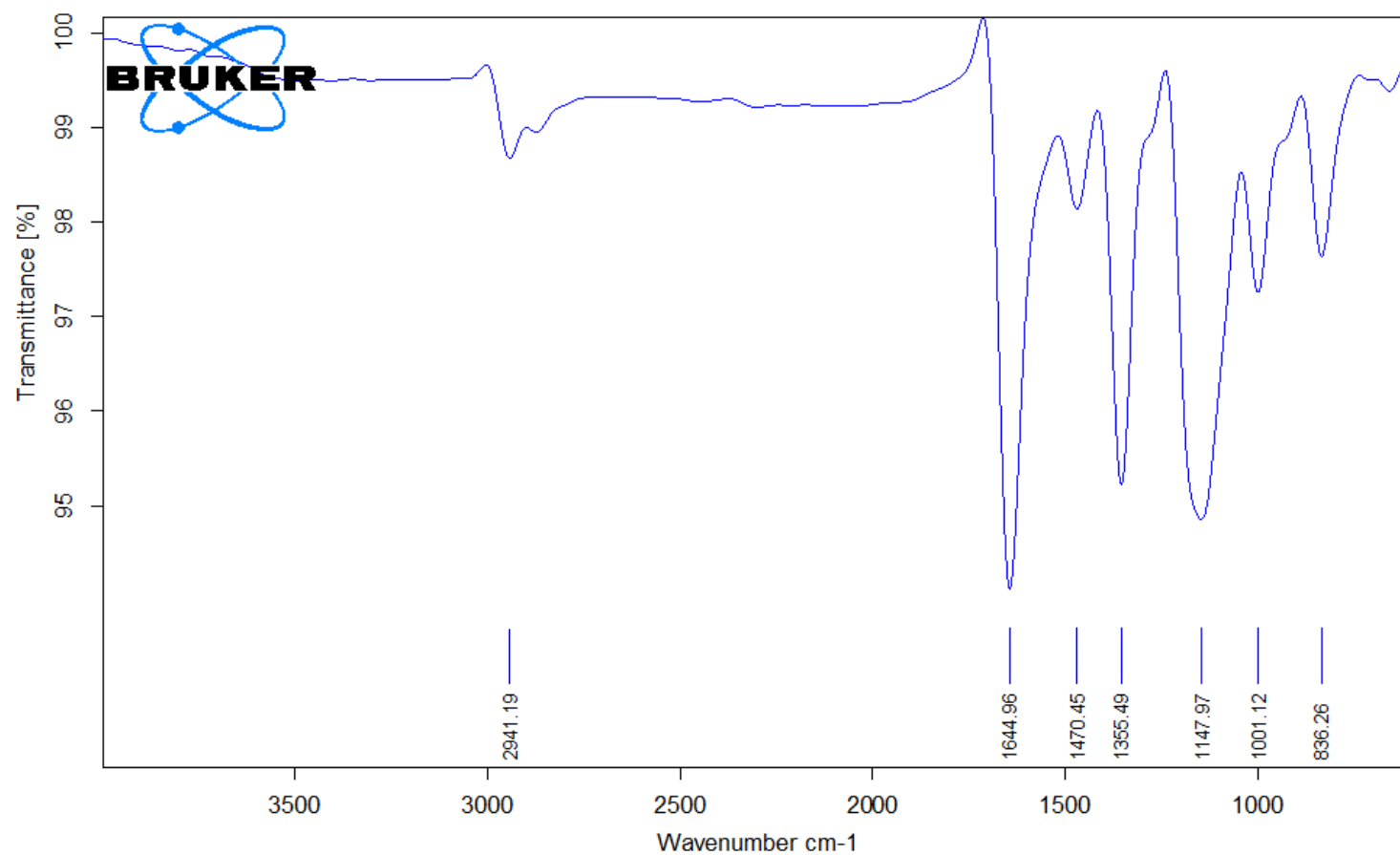
1: TOF MS ES+

1.90e8

BHAUSAHEB_D5 6 (0.138) Cm (3.24)



D6- 3,4,6,7-tetrahydro-9-(4-chlorophenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione



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D6

Instrument type and / or accessory

02/04/2025

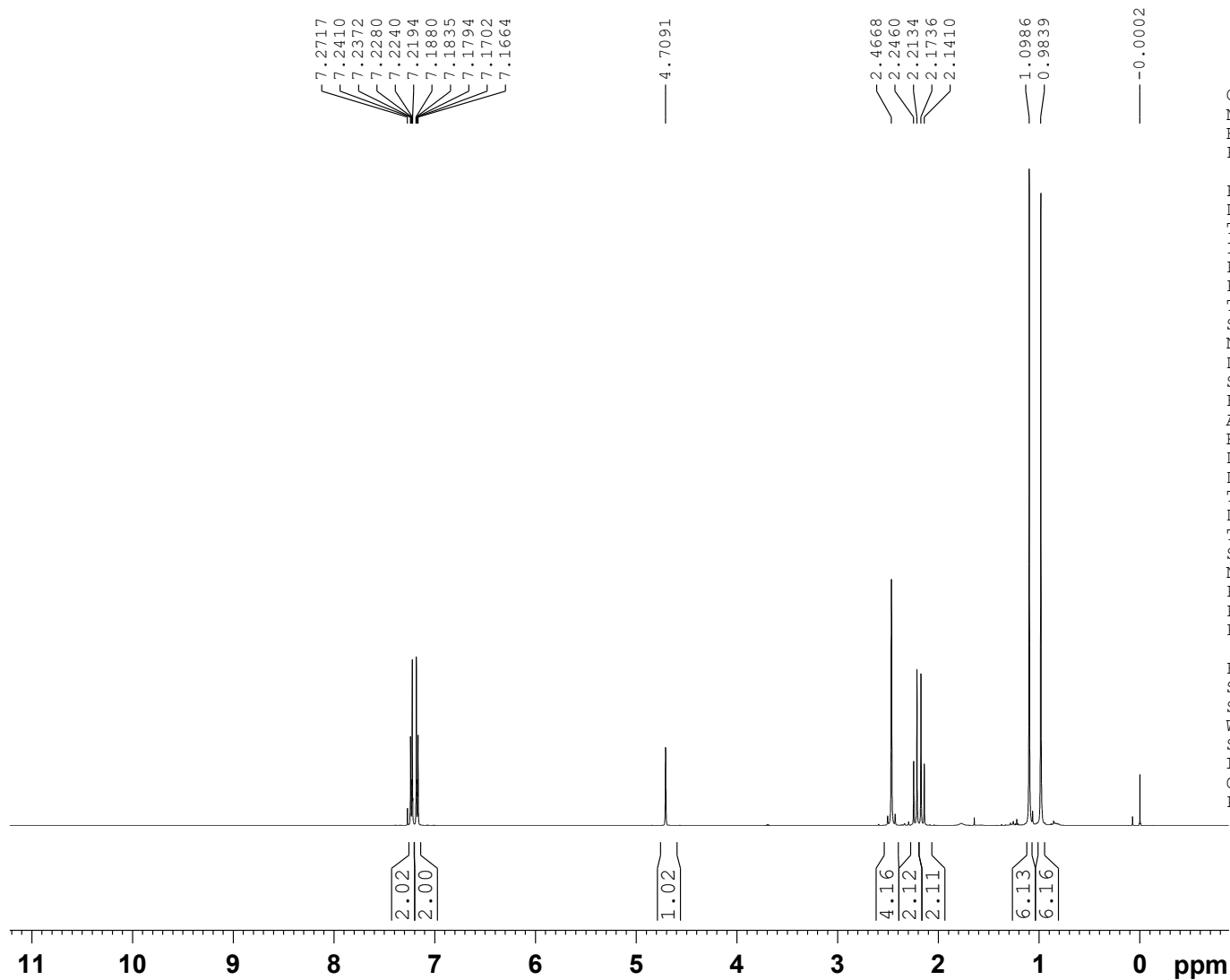
D6
1H_8scan CDC13 {D:\Spectra} nmr 16

BRUKER
AVANCE NEO
500 MHz NMR
SPECTROMETER
SAIF, P.U.

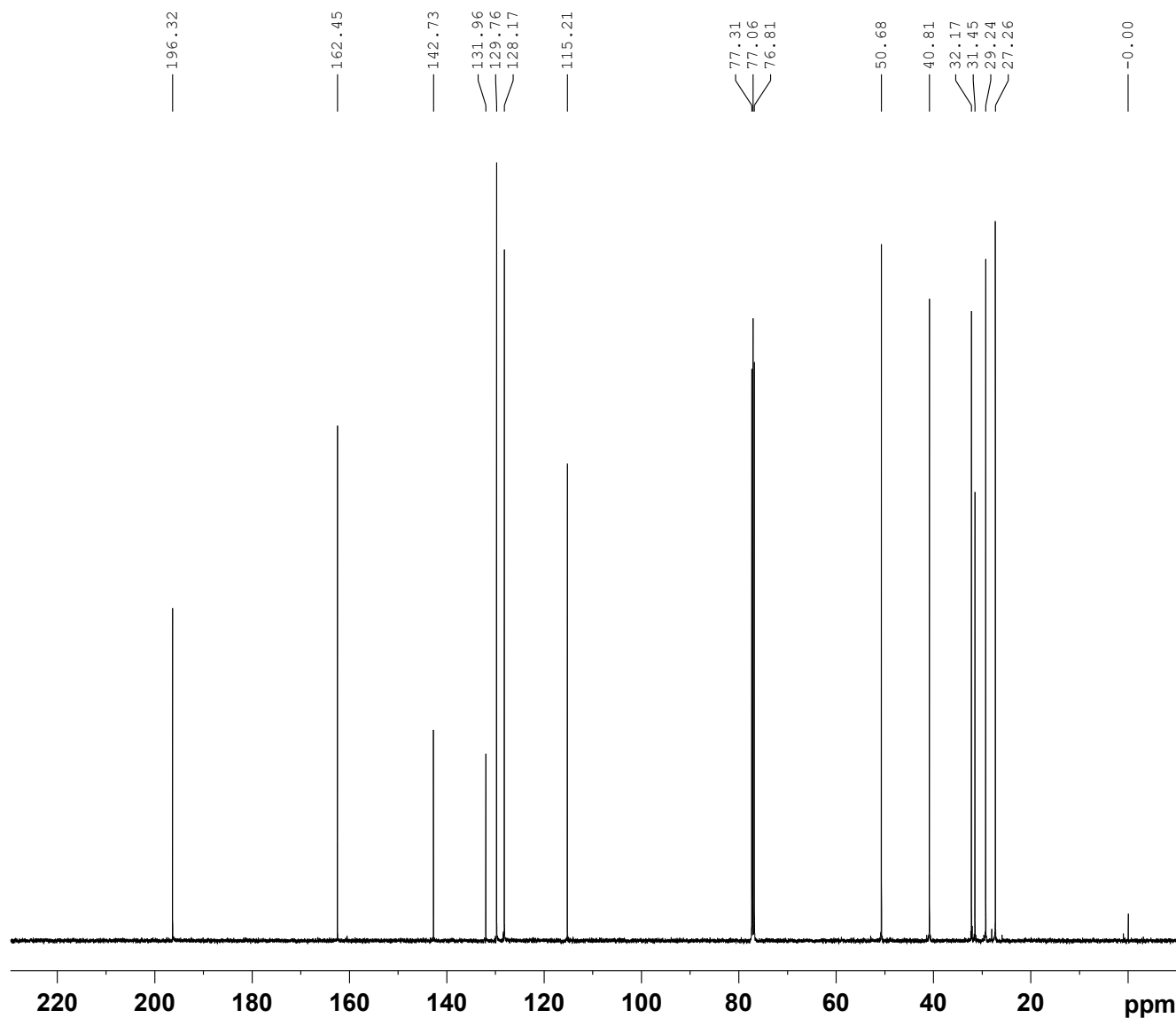
Current Data Parameters
NAME Apr17-2025
EXPNO 160
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time_ 13.31 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 0
SWH 14705.883 Hz
FIDRES 0.448788 Hz
AQ 2.2282240 sec
RG 58.395
DW 34.000 usec
DE 6.79 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1
SFO1 500.1730885 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 20.93000031 W

F2 - Processing parameters
SI 65536
SF 500.1700059 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



D6
C13CPD CDC13 {D:\Spectra} nmr 16



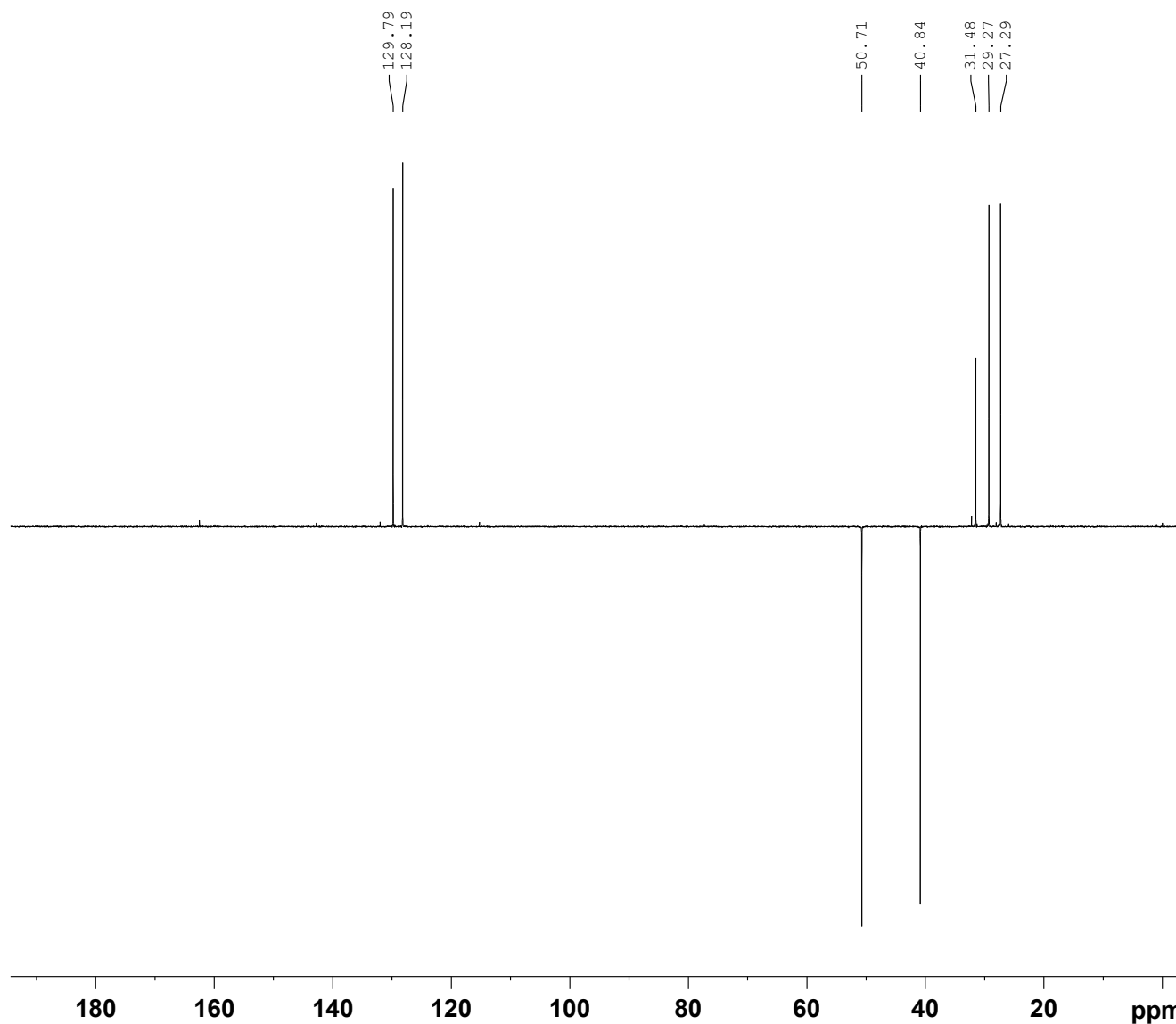
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Apr17-2025
EXPNO 161
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time_ 13.56 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 125.7804233 MHz
NUC1 13C
P0 3.33 usec
P1 10.00 usec
PLW1 83.14099884 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W
PLW13 0.16449000 W

F2 - Processing parameters
SI 32768
SF 125.7678501 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

D6
C13DEPT135 CDC13 {D:\Spectra} nmr 16

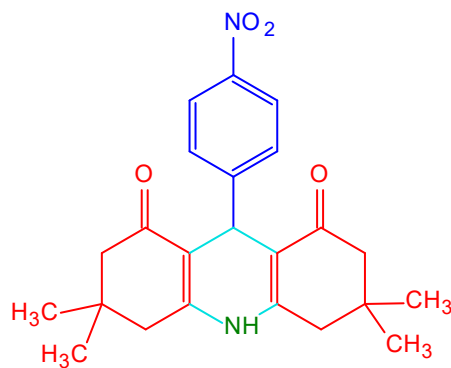


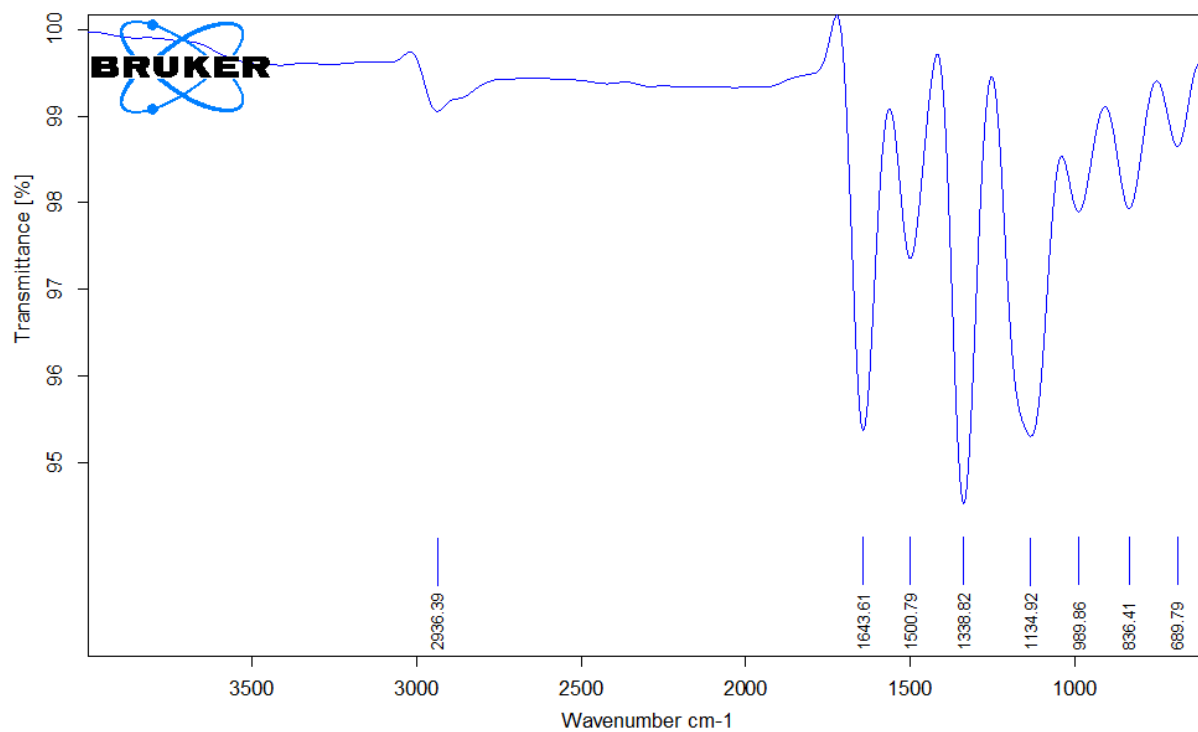
BRUKER
AVANCE NEO
500 MHz NMR SPECTROMETER
SAIF, PANJAB UNIVERSITY,
CHANDIGARH

Current Data Parameters
NAME Apr17-2025
EXPNO 162
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250417
Time 14.09 h
INSTRUM Avance Neo 500
PROBHD Z119470_0333 (
PULPROG deptsp135
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 37037.035 Hz
FIDRES 1.130281 Hz
AQ 0.8847360 sec
RG 101
DW 13.500 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 125.7779080 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 83.14099884 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 12.70300007 W
SFO2 500.1720007 MHz
NUC2 1H
CPDPRG[2] waltz65
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 20.93000031 W
PLW12 0.32703000 W

F2 - Processing parameters
SI 32768
SF 125.7678465 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

D7- 3,4,6,7-tetrahydro-9-(4-nitrophenyl)-3,3,6,6-tetramethylacridine-1,8(2H,5H,9H,10H)-dione



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D7

Instrument type and / or accessory

02/04/2025