

Supplemental material for:

**Highly Regioselective Oxidative Csp²-H Amination for
Indolosesquiterpene Alkaloids: Total Synthesis of (+)-
Dioridamycin**

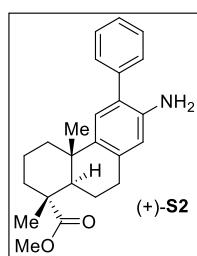
Rhituparna Nandi,^{§a} Sovan Niyogi,^{§b} Sourav Kundu,^b Ayan Mondal,^b Nanda Kishore Roy,^b
and Alakesh Bisai*^{a,b}

^aDepartment of Chemistry, Indian Institute of Science Education and Research Bhopal,
Bhopal Bypass Road, Bhopal, MP - 462 066, India.

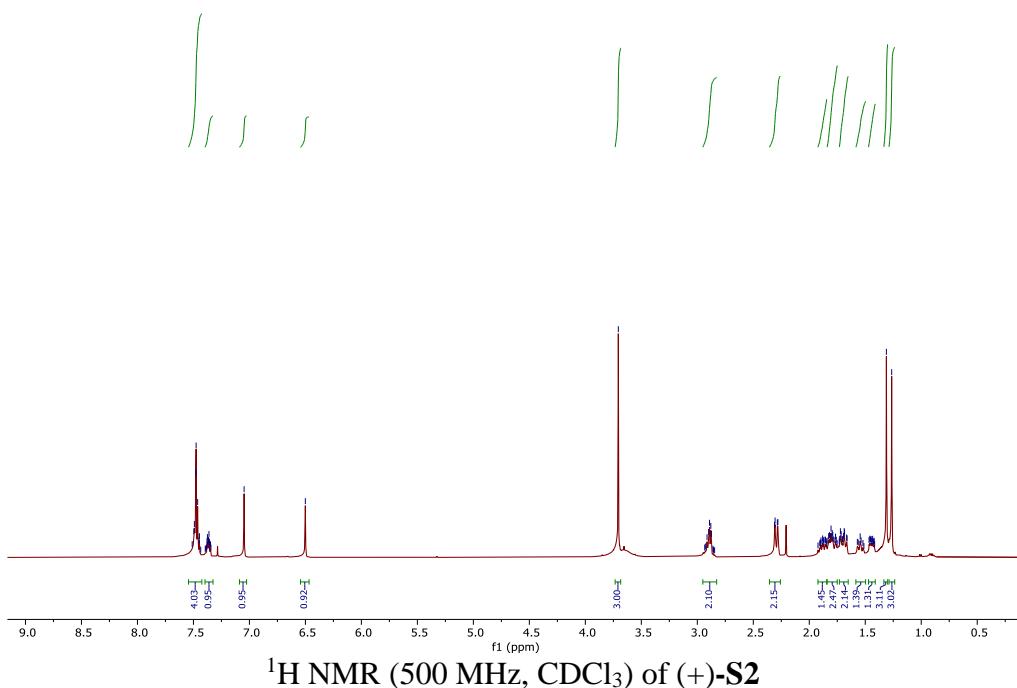
^bDepartment of Chemical Sciences, Indian Institute of Science Education and Research
Kolkata, Mohanpur, Nadia, WB - 741 246, India.

e-Mail: alakesh@iiserkol.ac.in, alakeshb@gmail.com

Spectral Traces

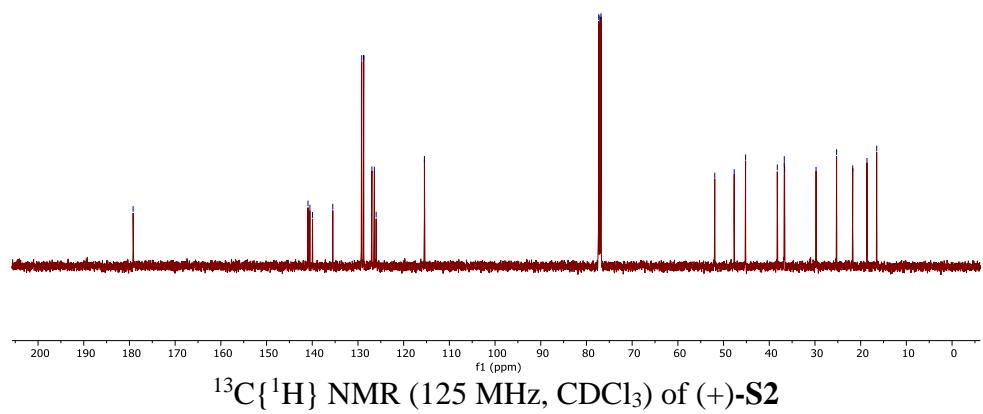


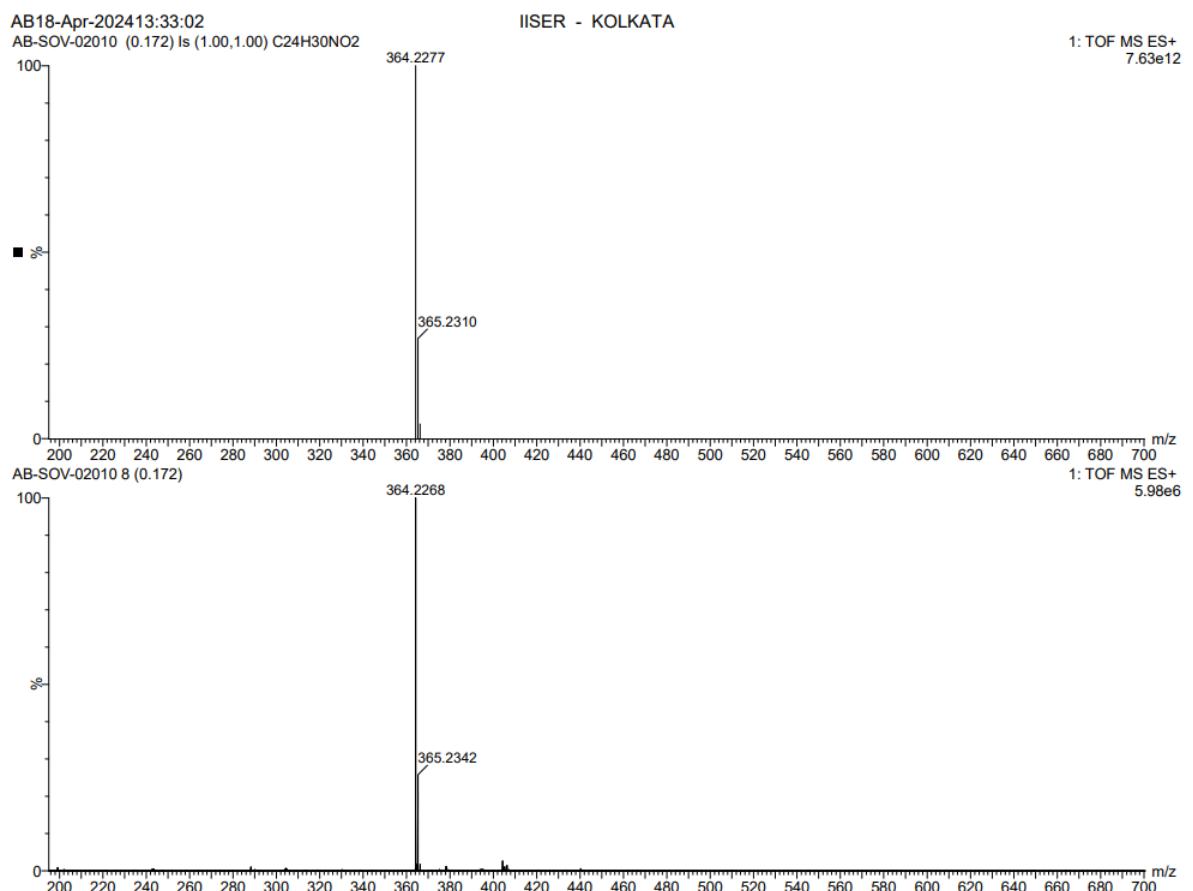
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AB-AYA-RN0388 in CDCl₃



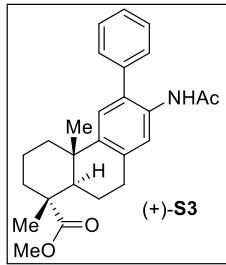
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GROUP AB
AB-AYA-RN0388 in CDCl₃

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77.07
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29.76
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18.62
16.49

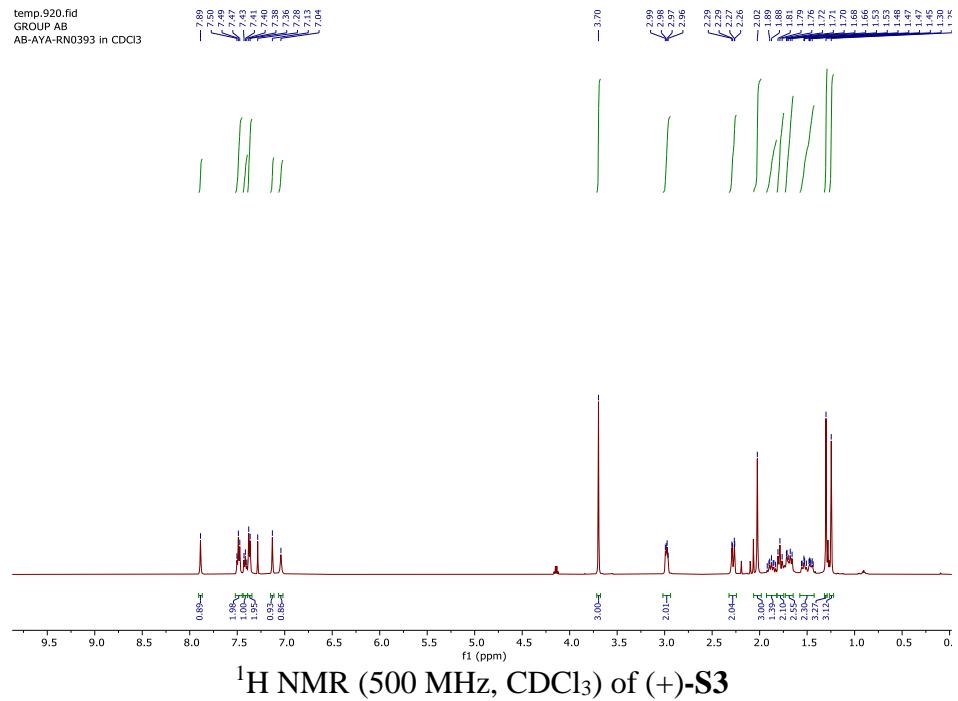




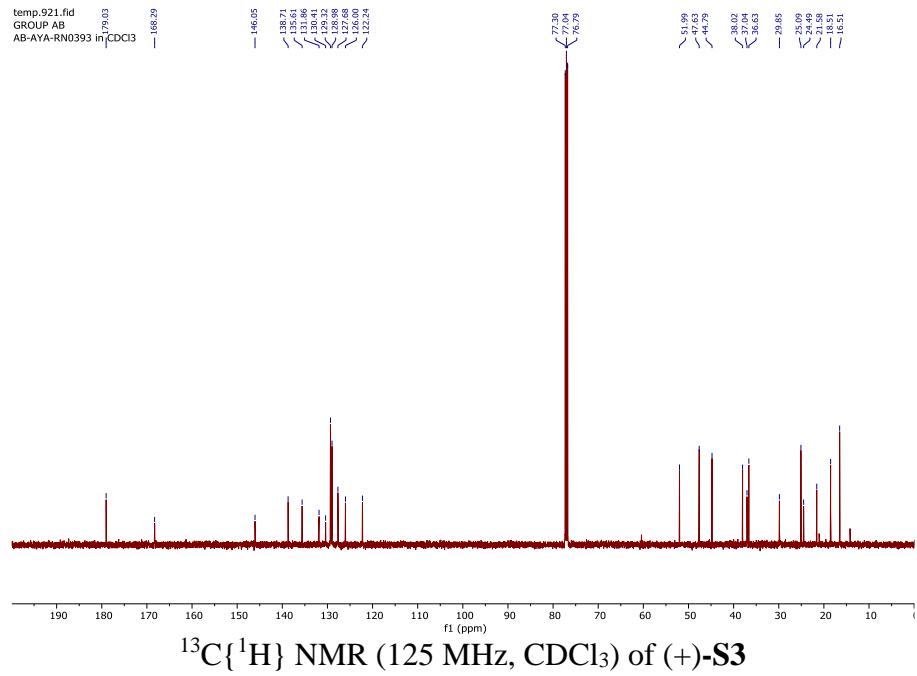
HRMS data of (+)-S2

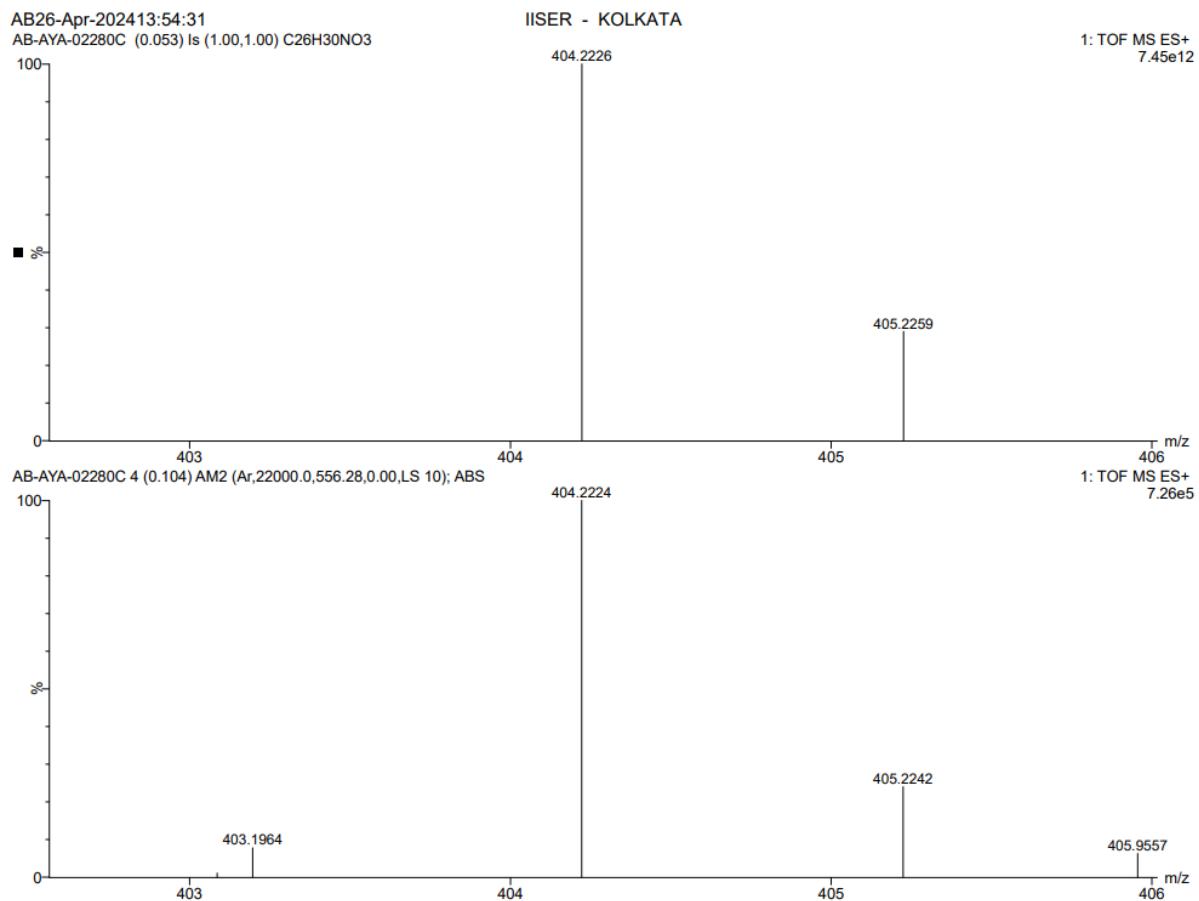


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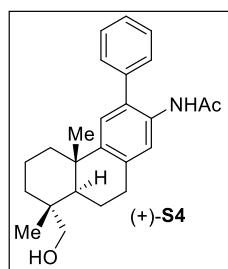


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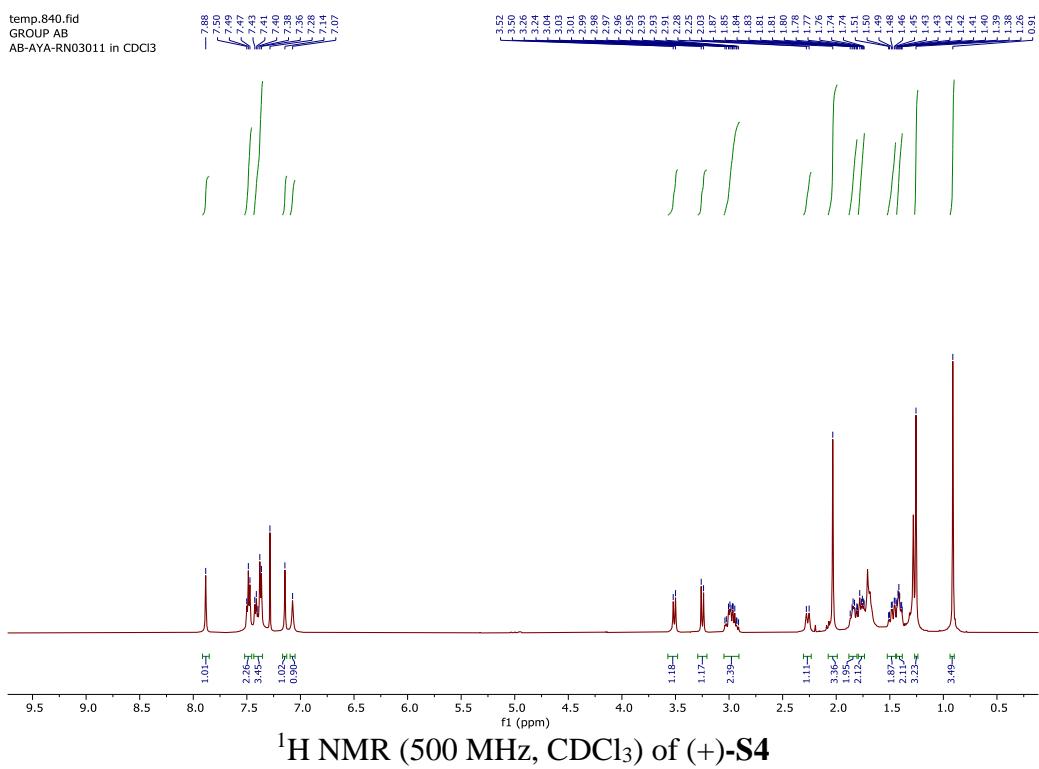




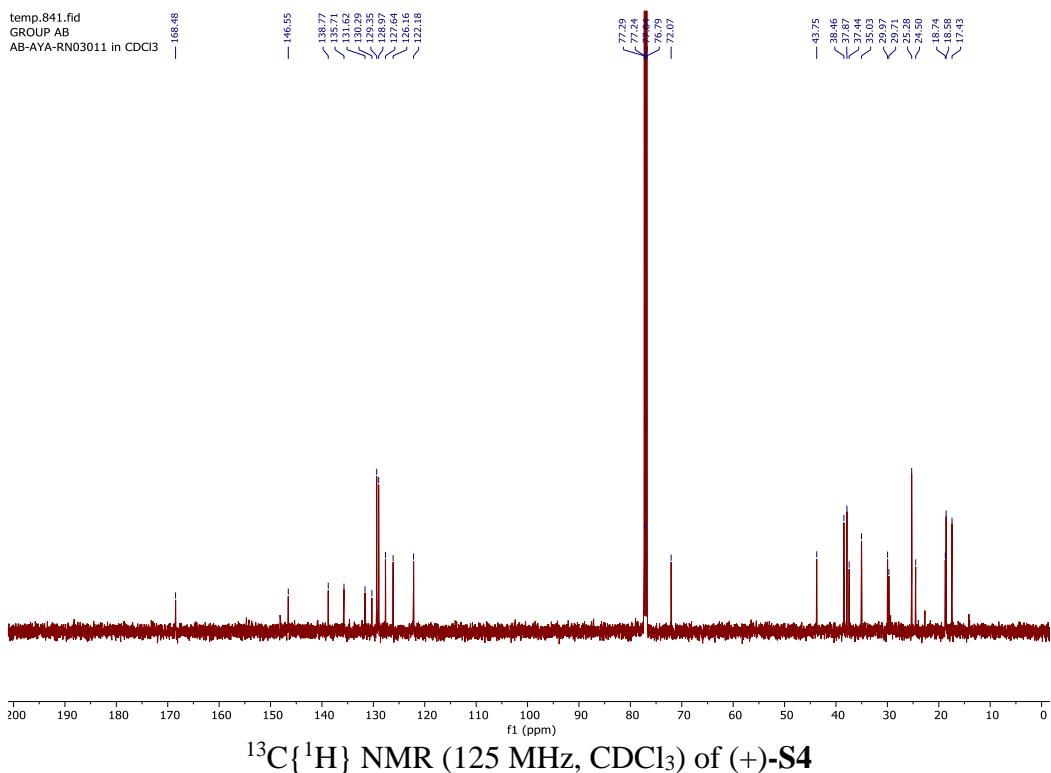
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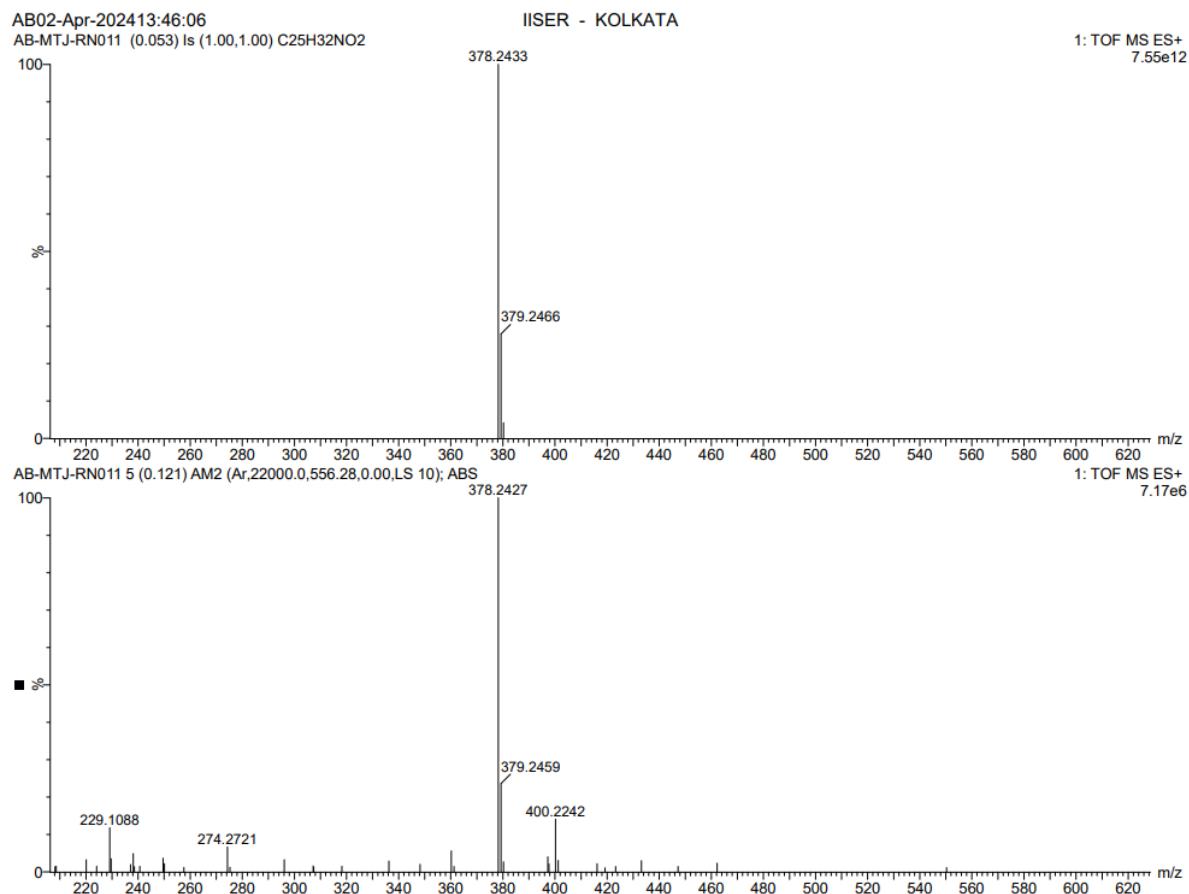


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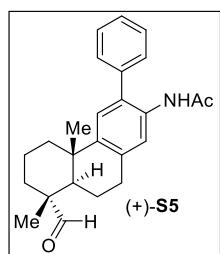


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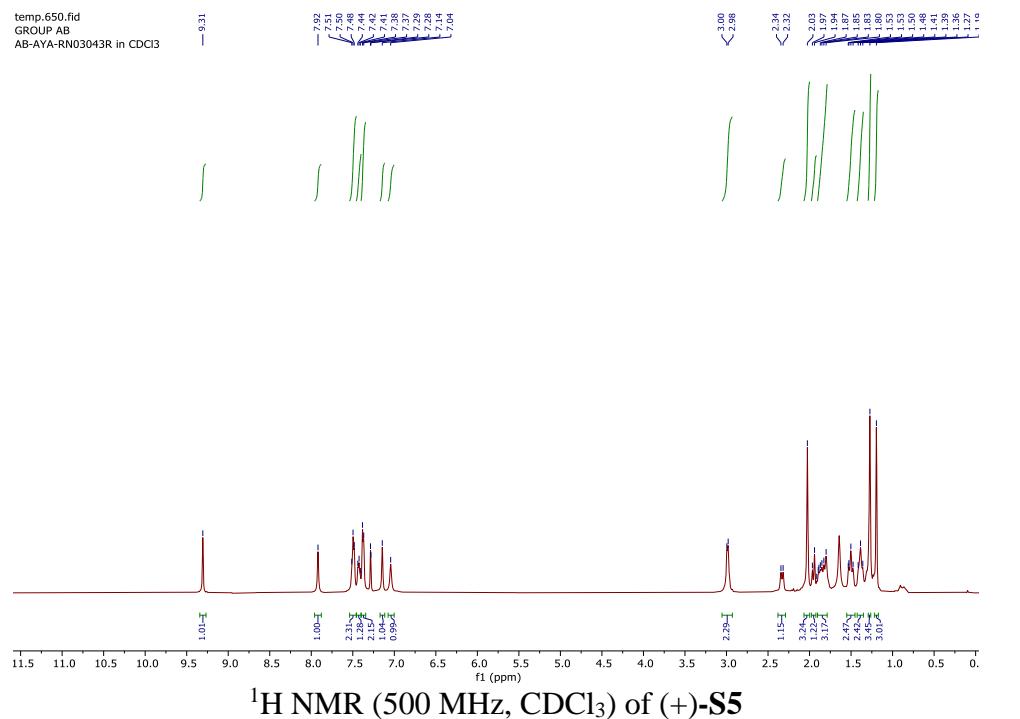




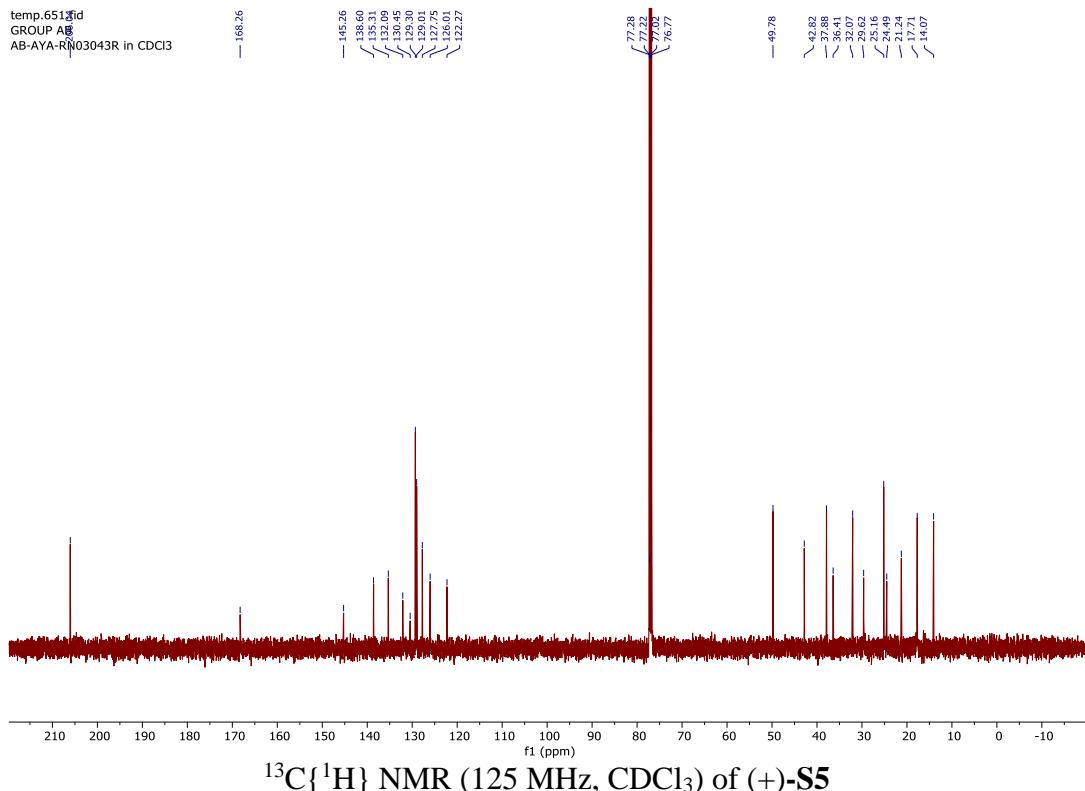
HRMS data of (+)-S4



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GROUP AB
AB-AYA-RN03043R in CDCl₃



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GROUP AB
AB-AYA-RN03043R in CDCl₃



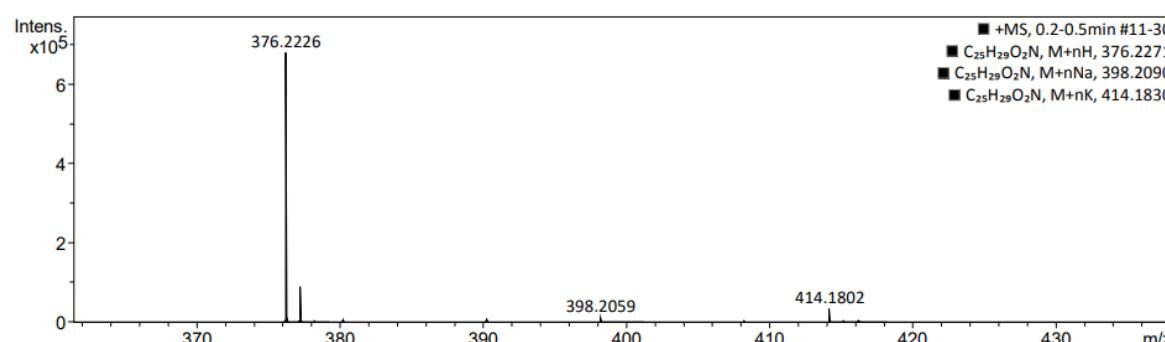
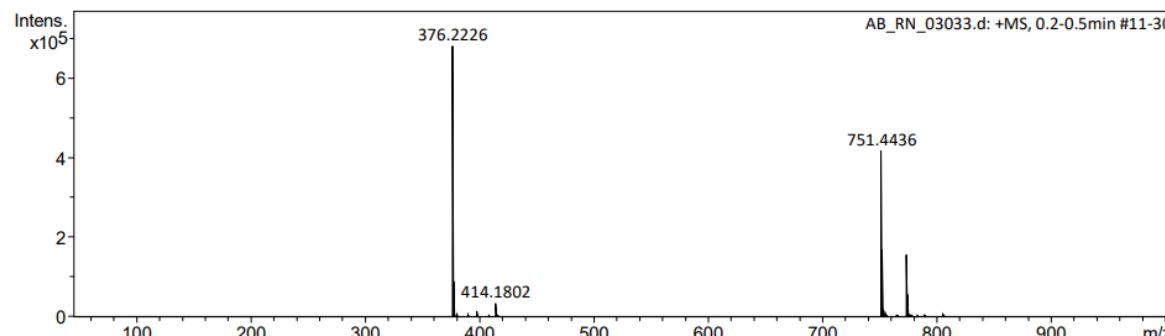
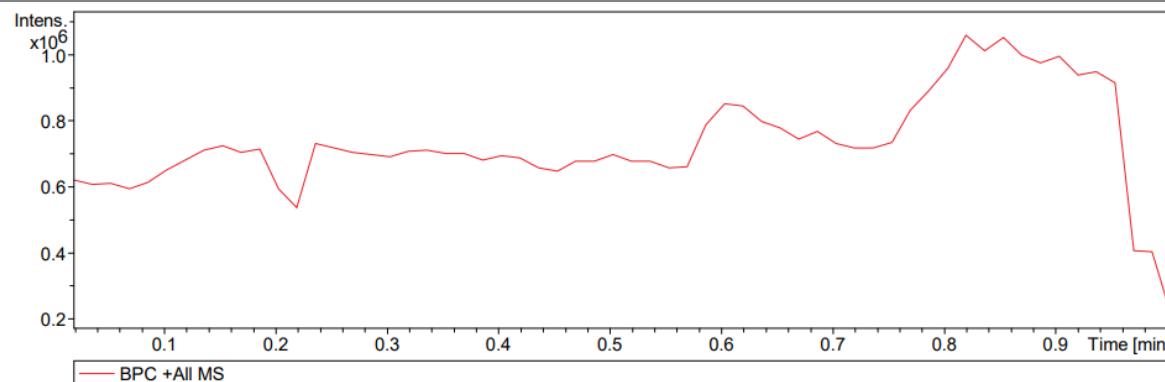
Display Report

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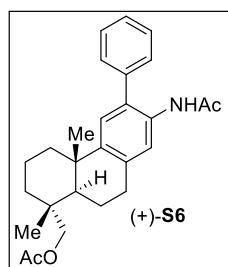
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Method Tune_pos_Standard.m Operator IISER Kolkata
Sample Name AB_RN_03033 Instrument maXis impact 8282001.00127
Comment

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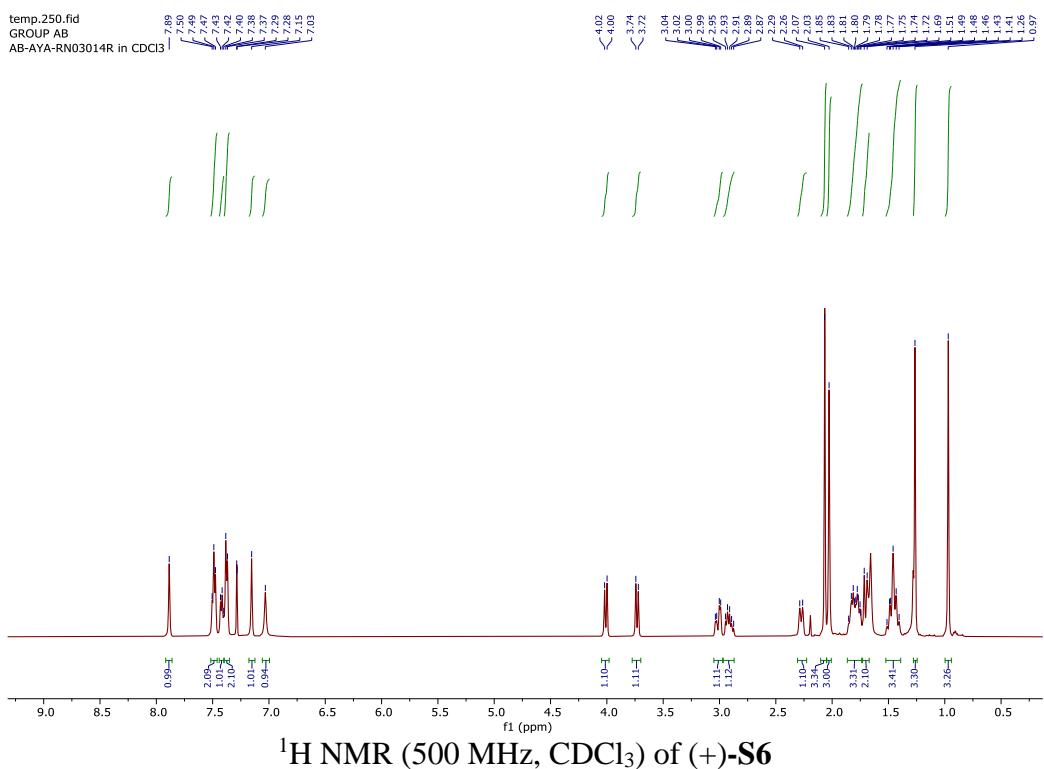
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		Set Corona	0 nA	Set APCI Heater	0 °C



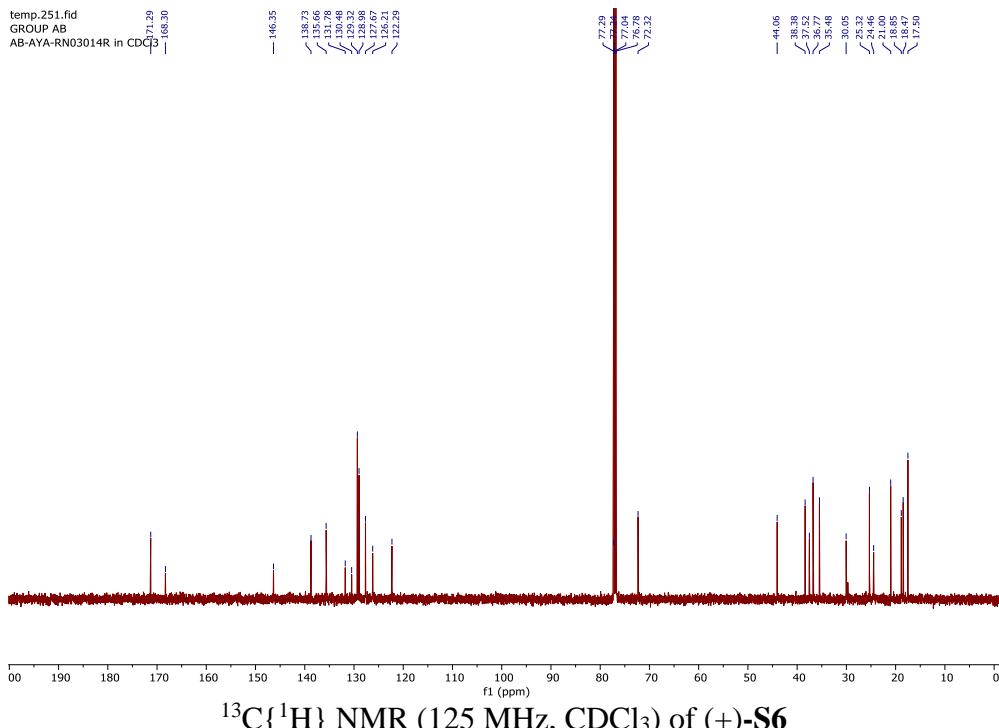
HRMS data of (+)-S5



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AB-AYA-RN03014R in CDCl₃



temp.251.fid
GROUP AB
AB-AYA-RN03014R in CDCl₃



Display Report

Analysis Info

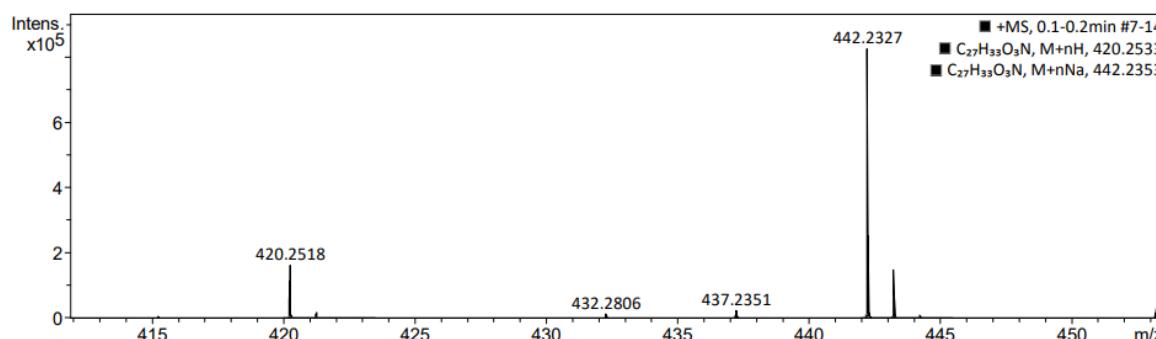
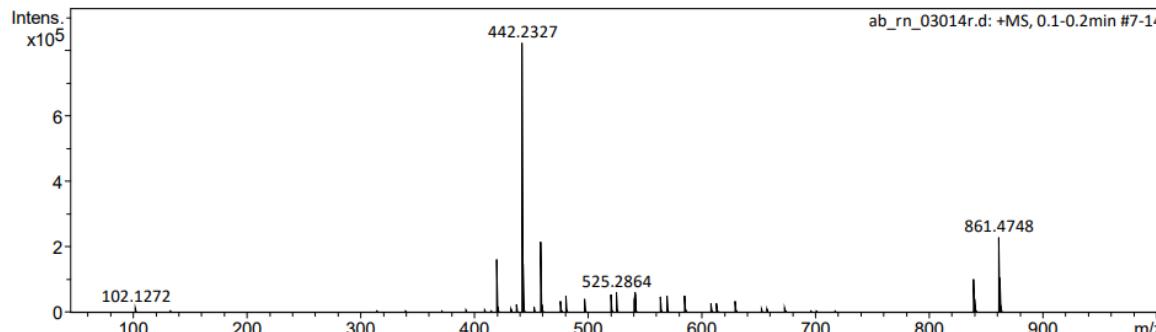
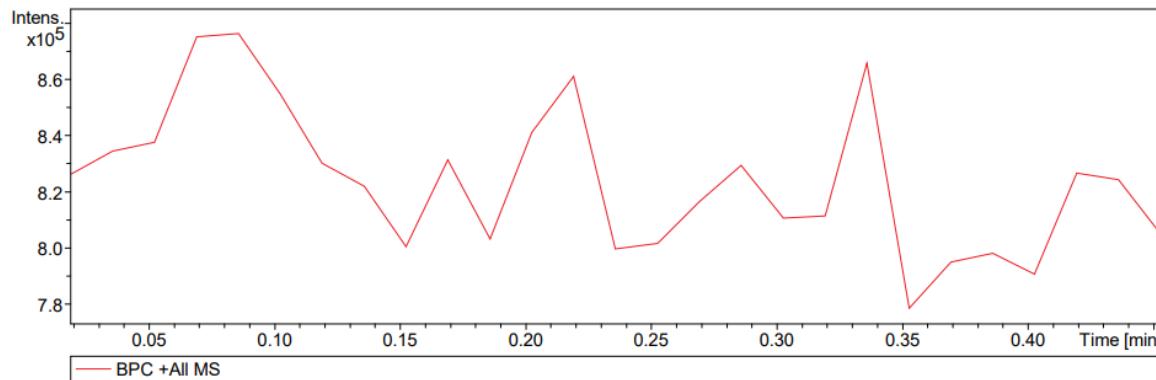
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Sample Name ab_rn_03014r
Comment

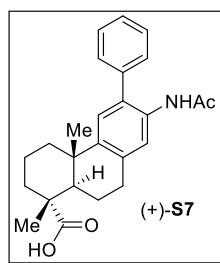
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Instrument maXis impact 8282001.00127

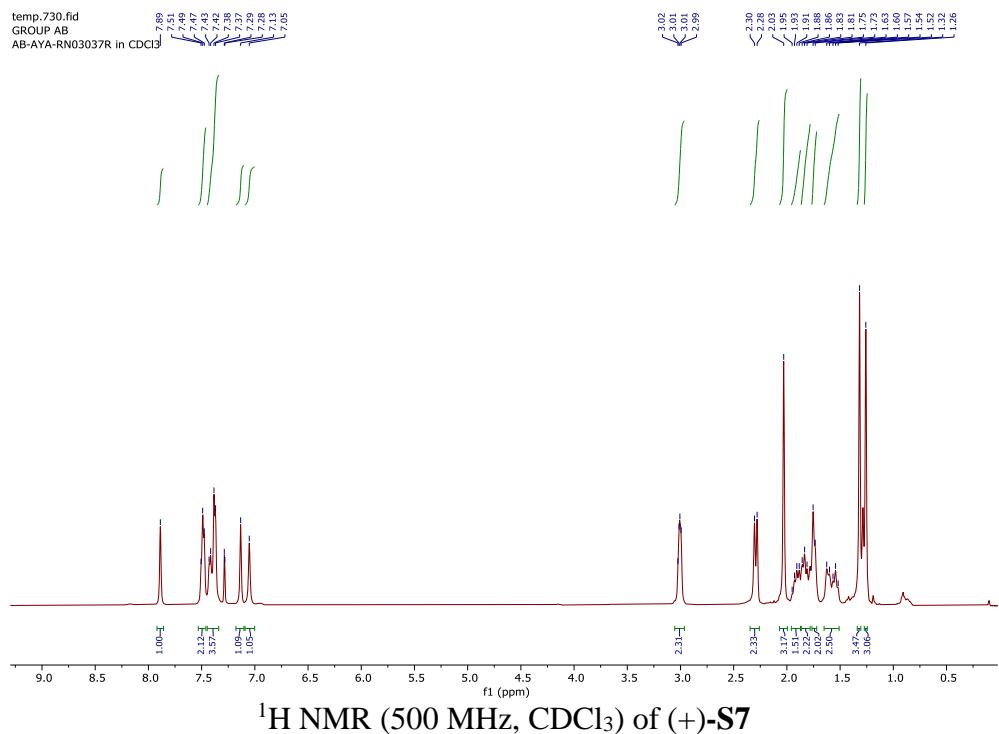
Acquisition Parameter

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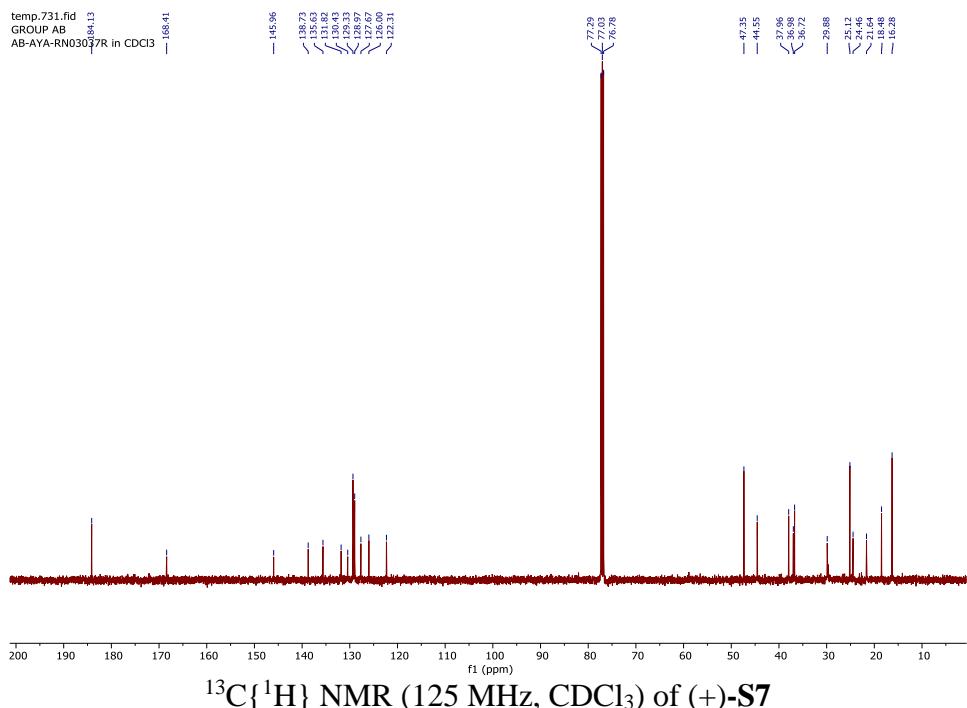


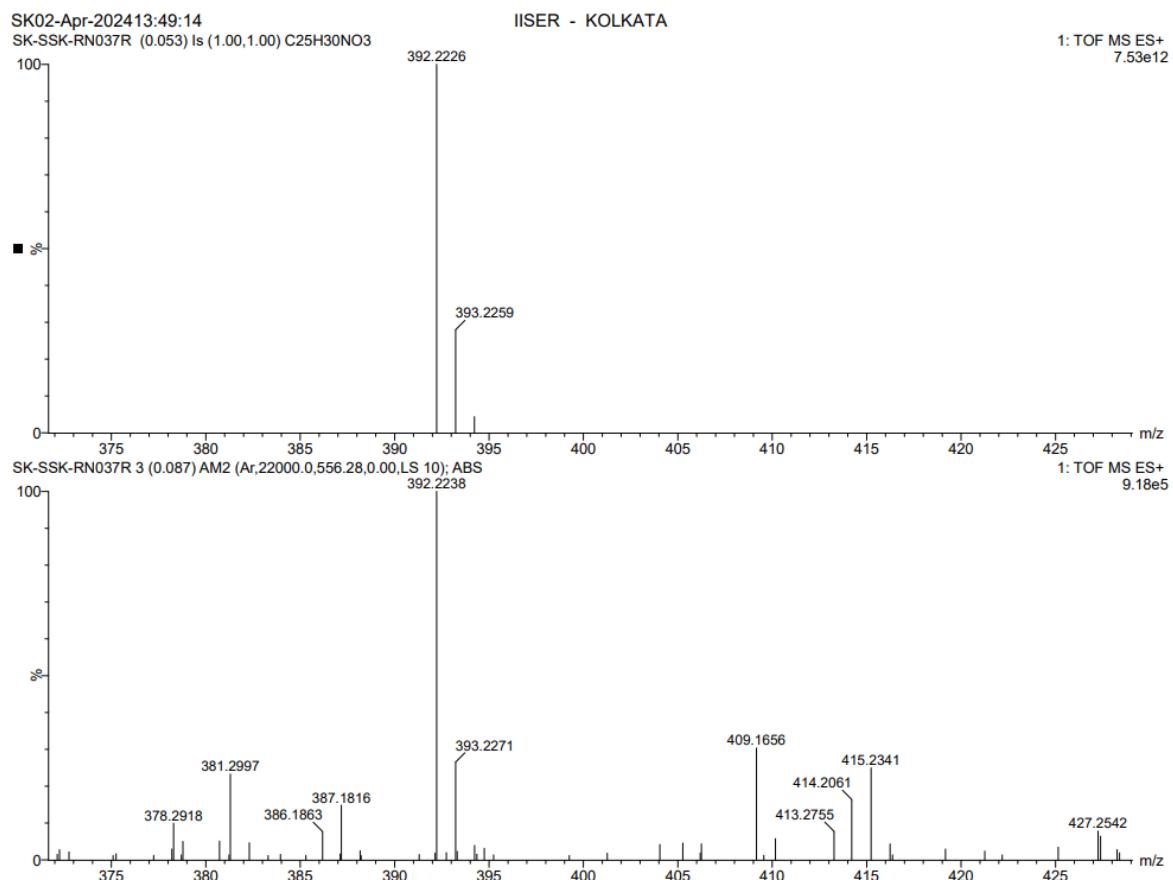


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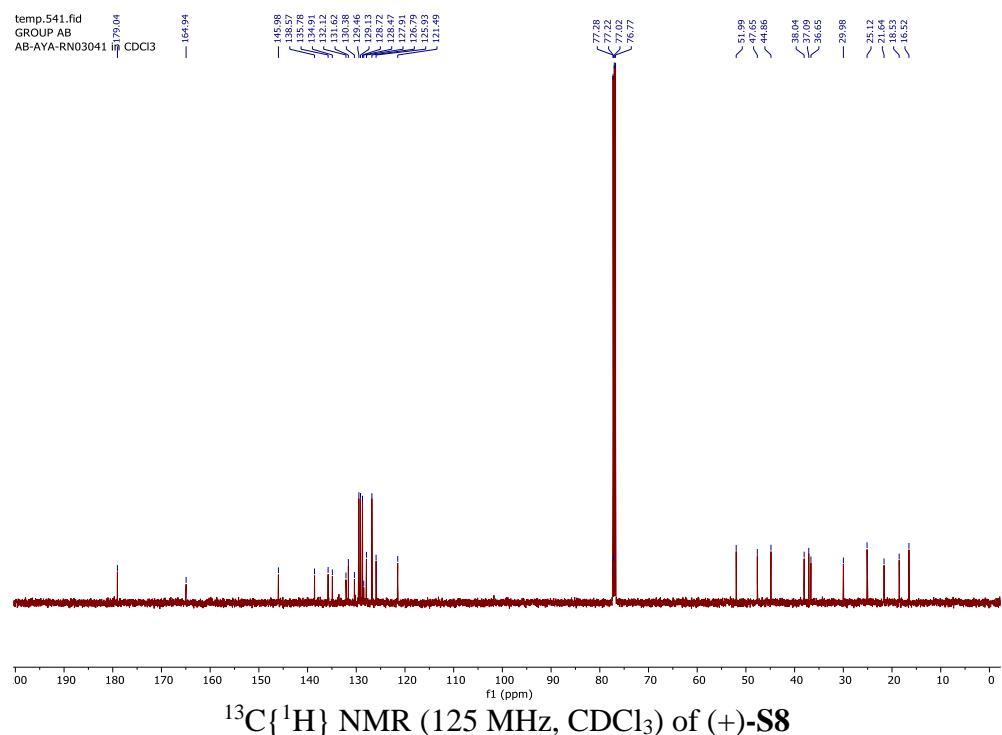
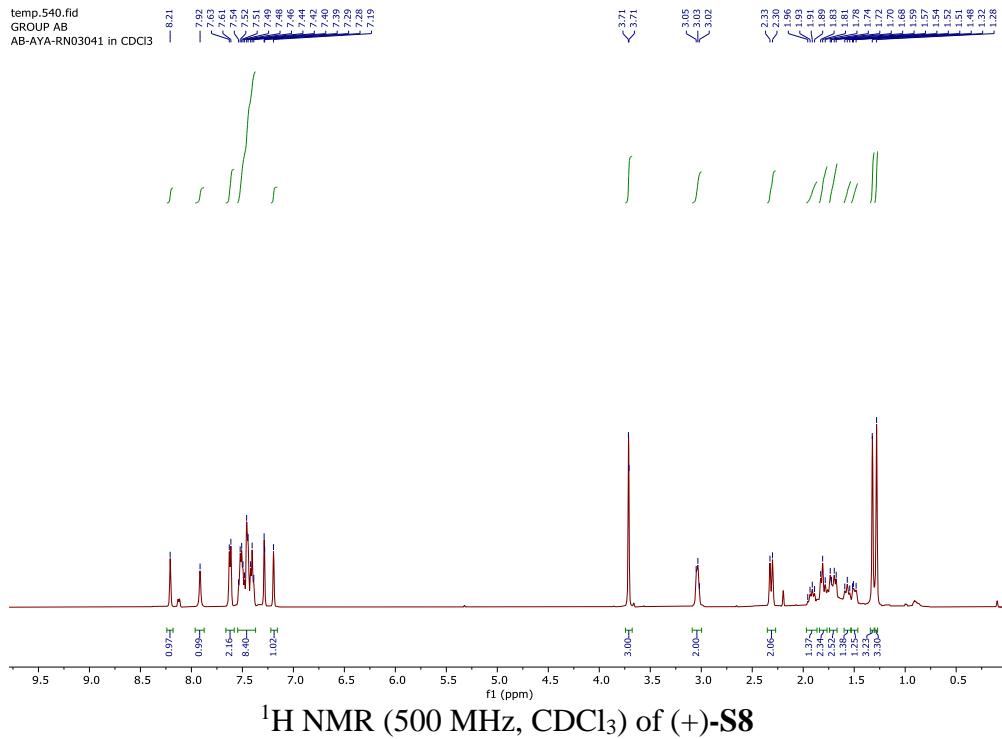
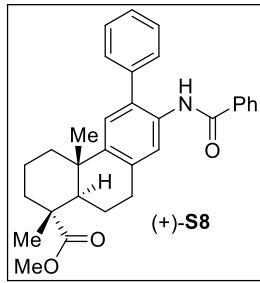


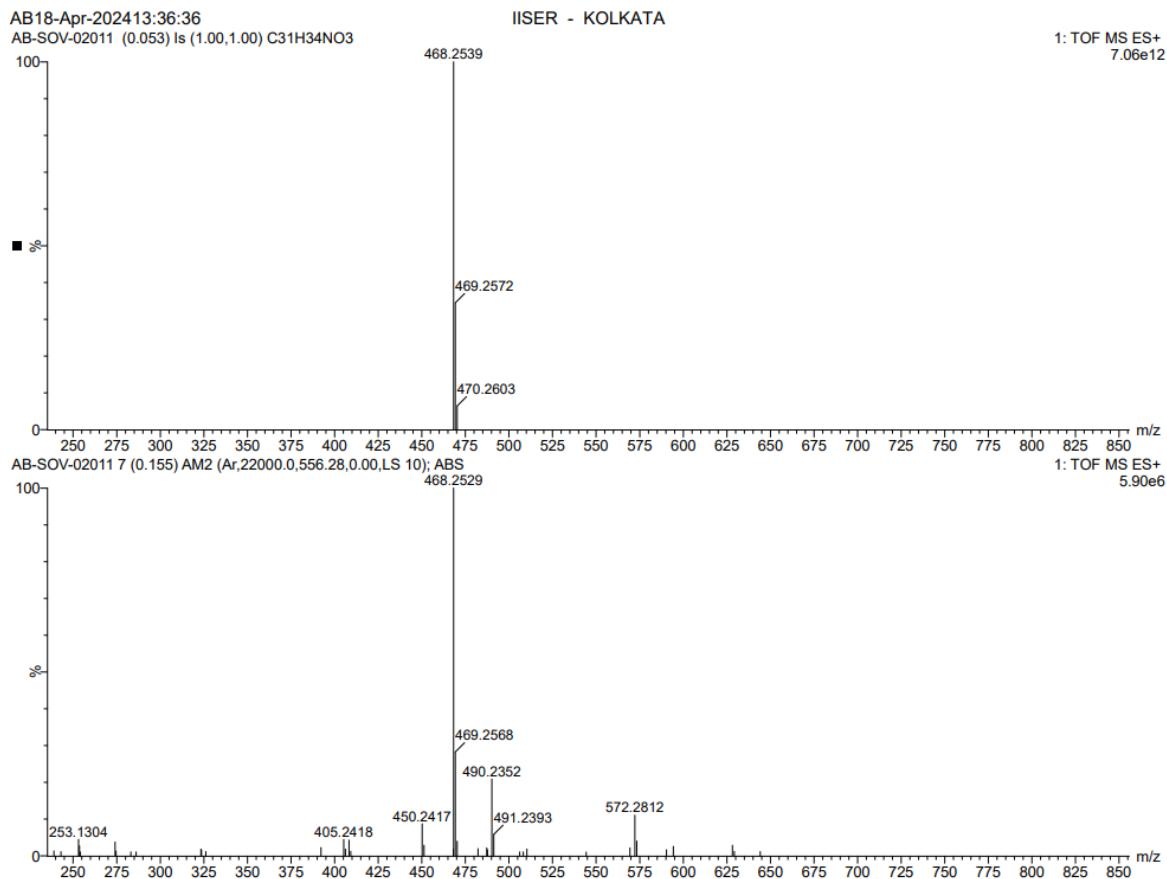
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GROUP AB
AB-AYA-RN03037R in CDCl₃



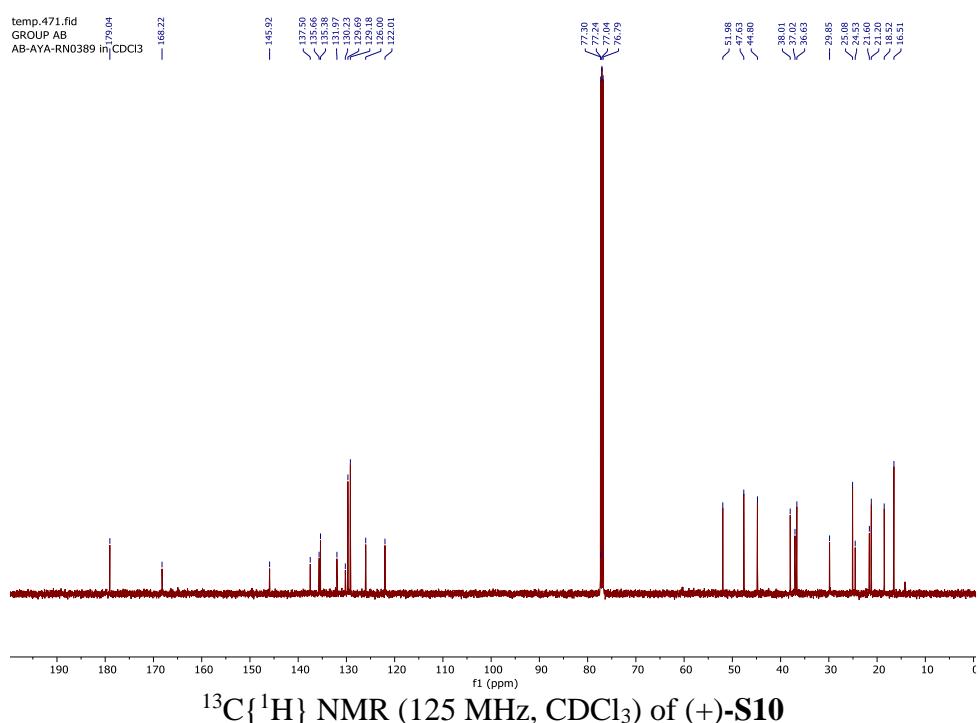
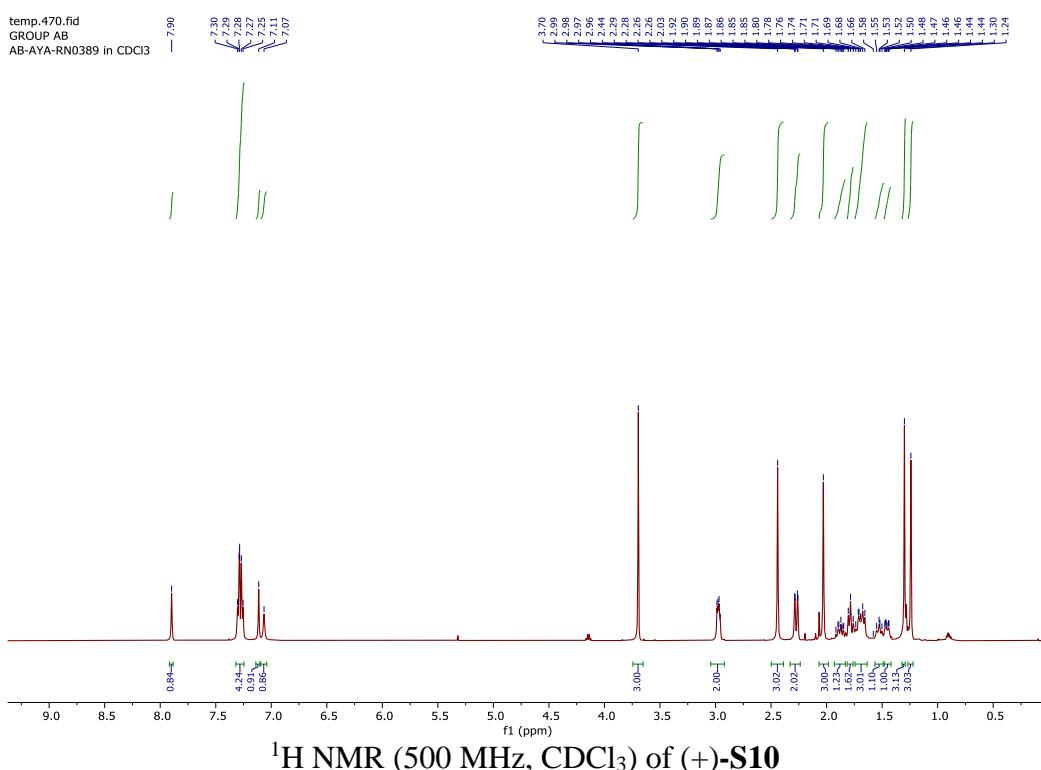
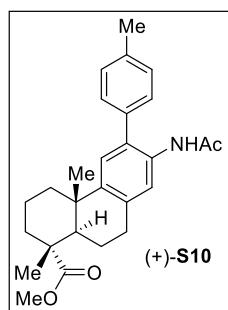


HRMS data of (+)-S7





HRMS data of (+)-S8



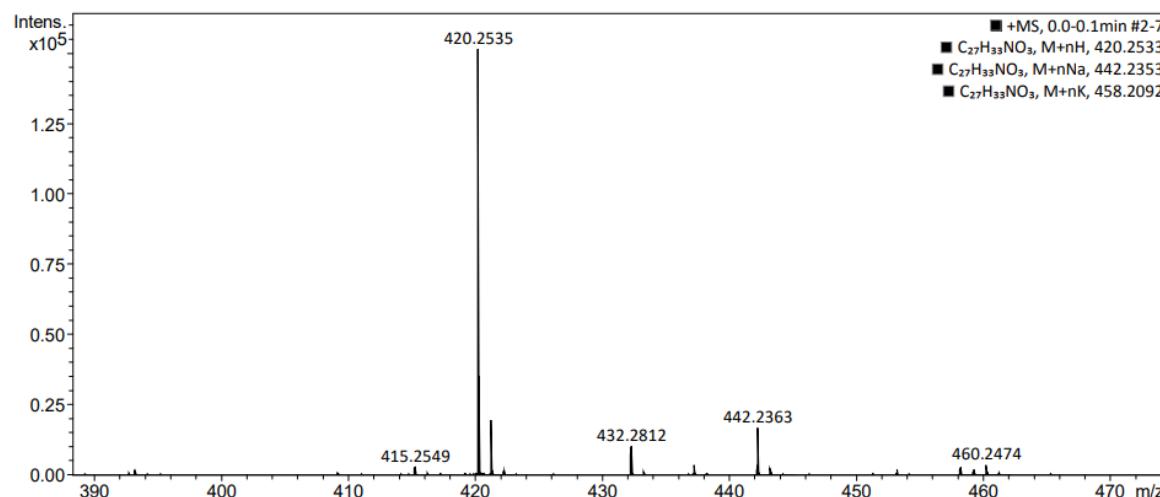
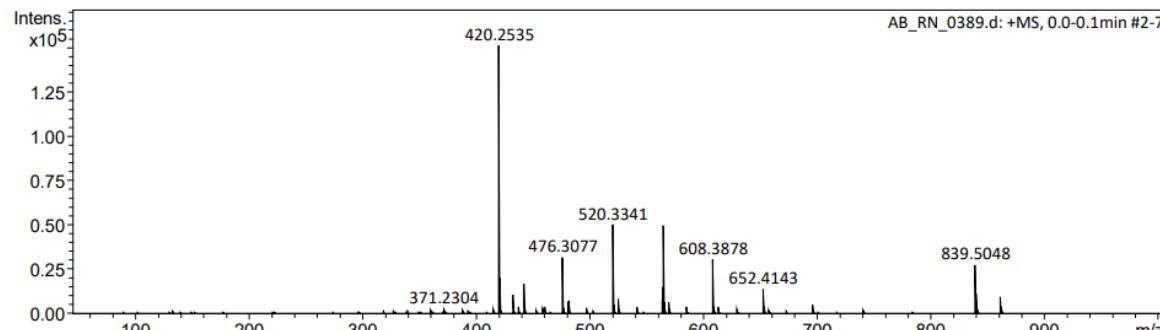
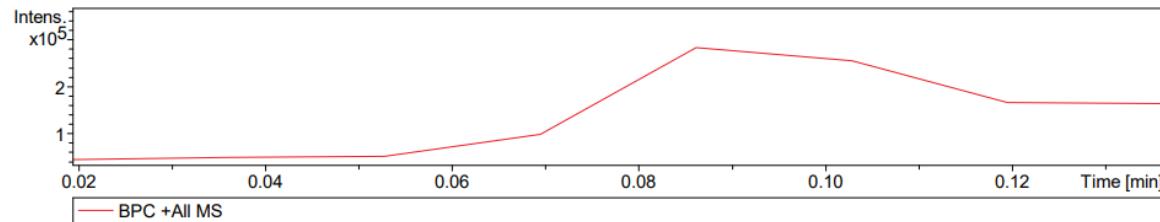
Display Report

Analysis Info

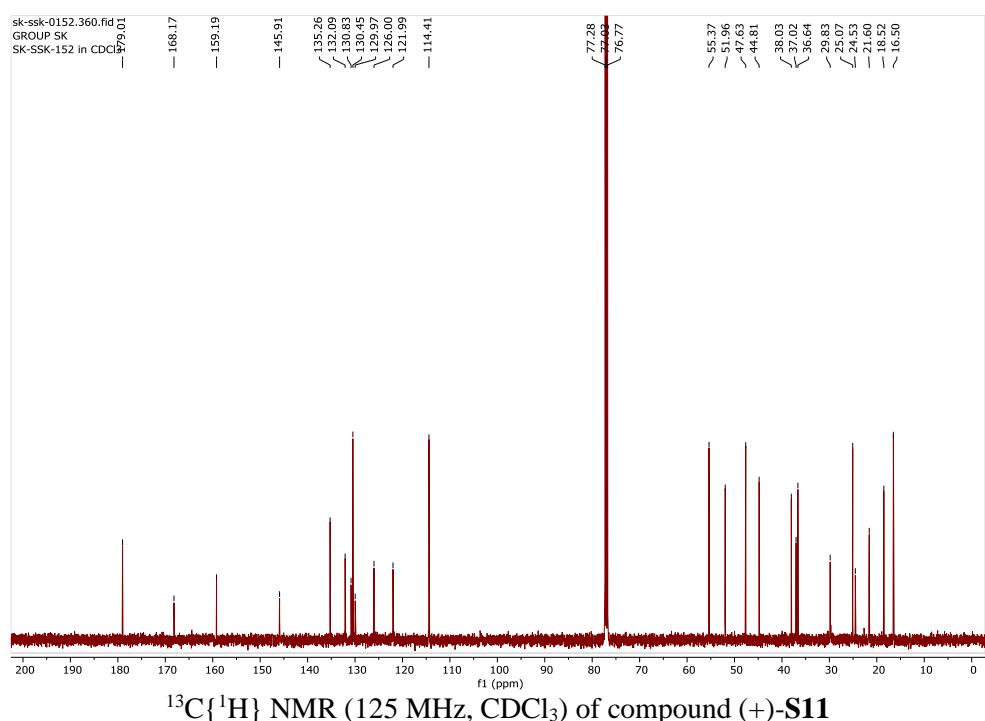
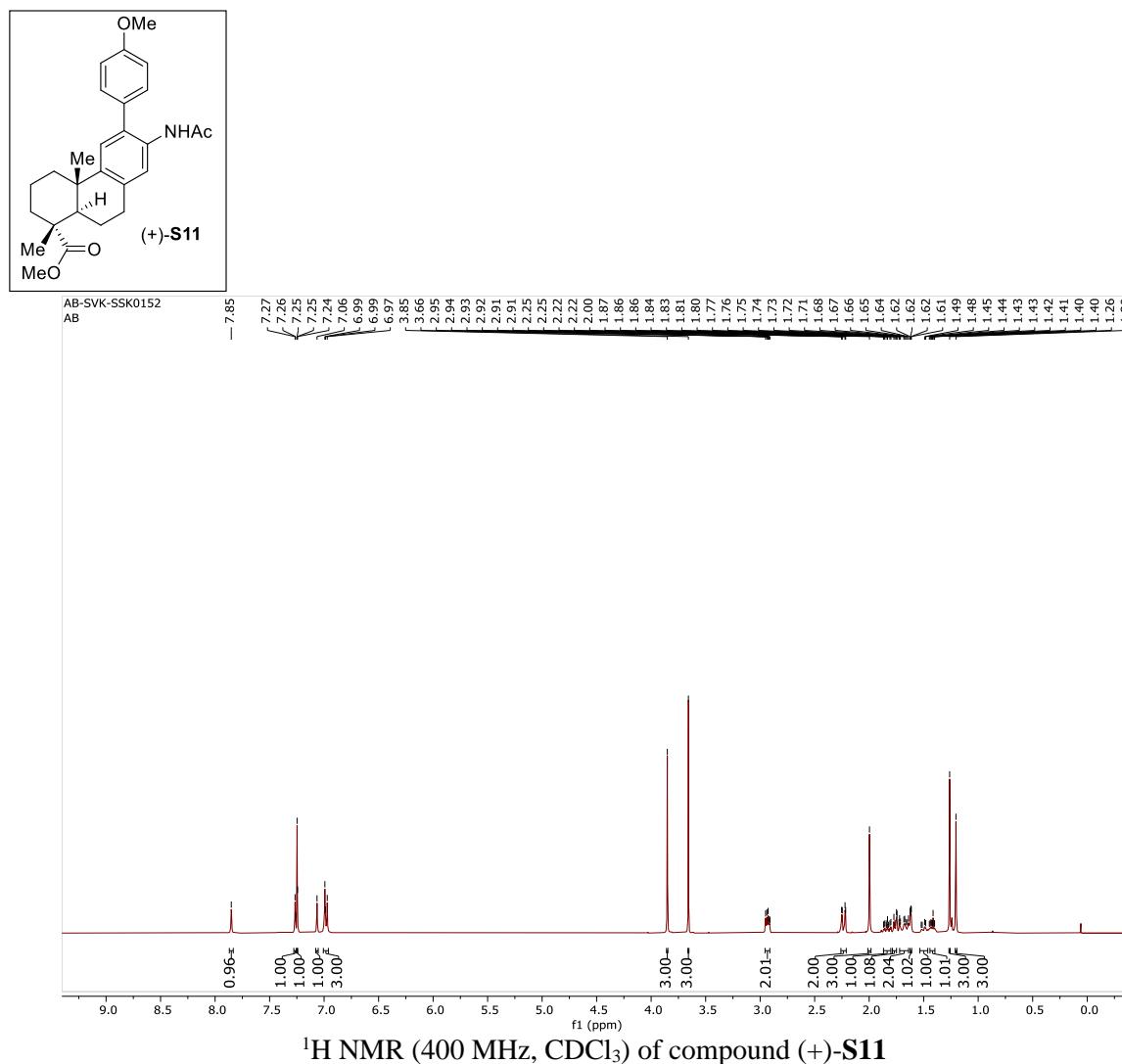
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Method Tune_pos_Standard.m Operator IISER Kolkata
Sample Name AB_RN_0389 Instrument maXis impact 8282001.00127
Comment signal dropping issue

Acquisition Parameter

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HRMS data of (+)-S10



Display Report

Analysis Info

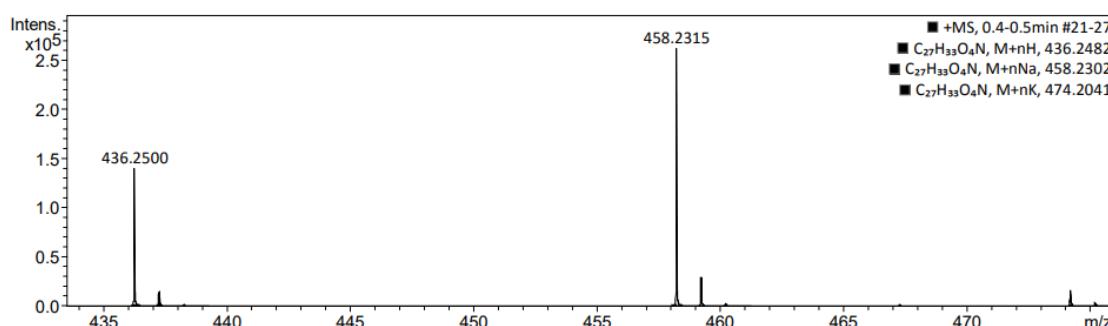
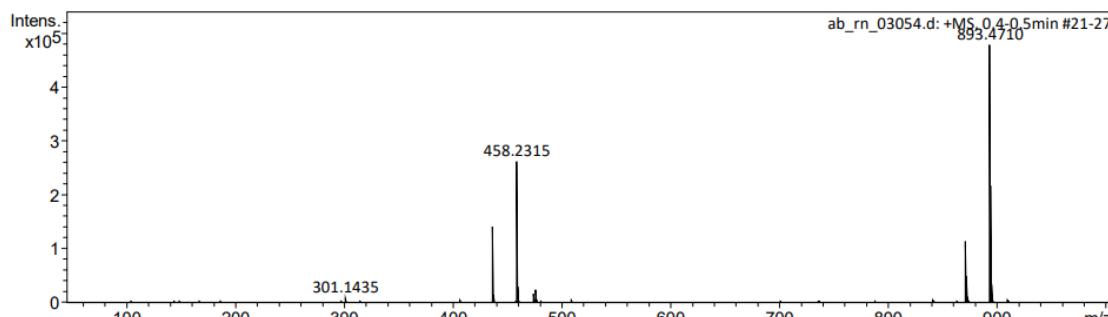
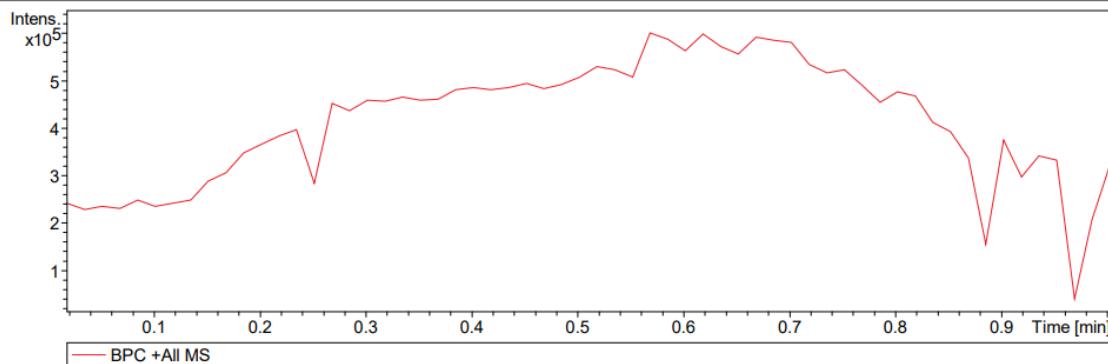
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Method Tune_pos_Standard.m
Sample Name ab_rn_03054
Comment

Acquisition Date 4/13/2022 3:04:06 PM

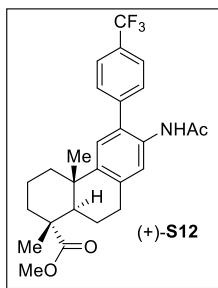
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

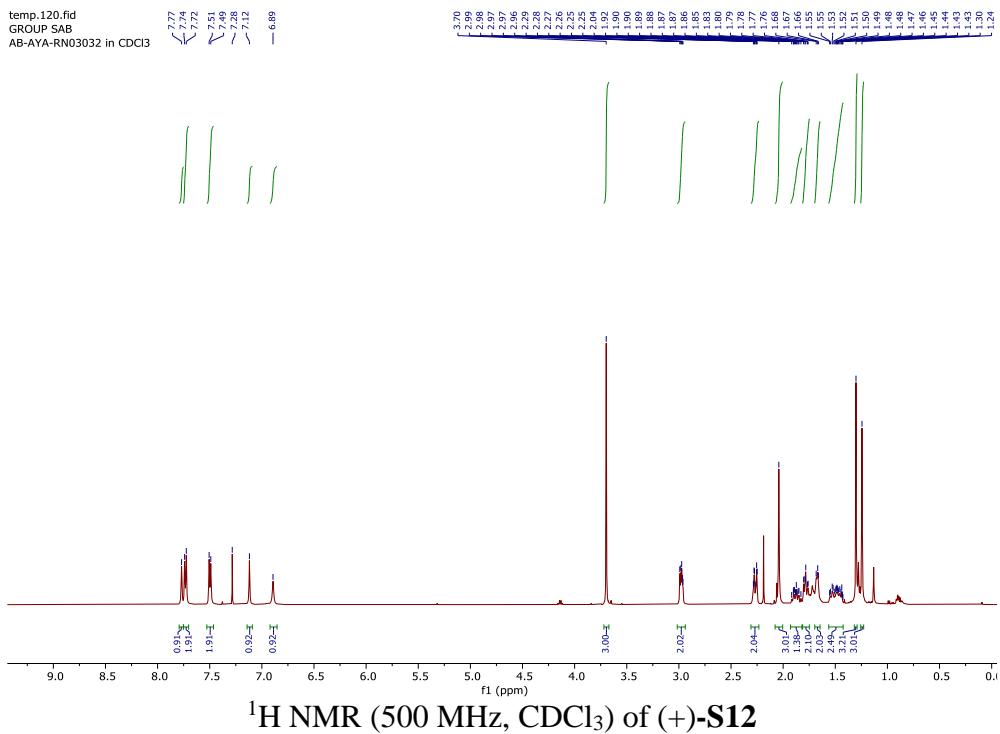
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Focus	Active	Set Capillary	3400 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	1000 m/z	Set Charging Voltage	2000 V	Set Divert Valve	Source
		Set Corona	0 nA	Set APCI Heater	0 °C



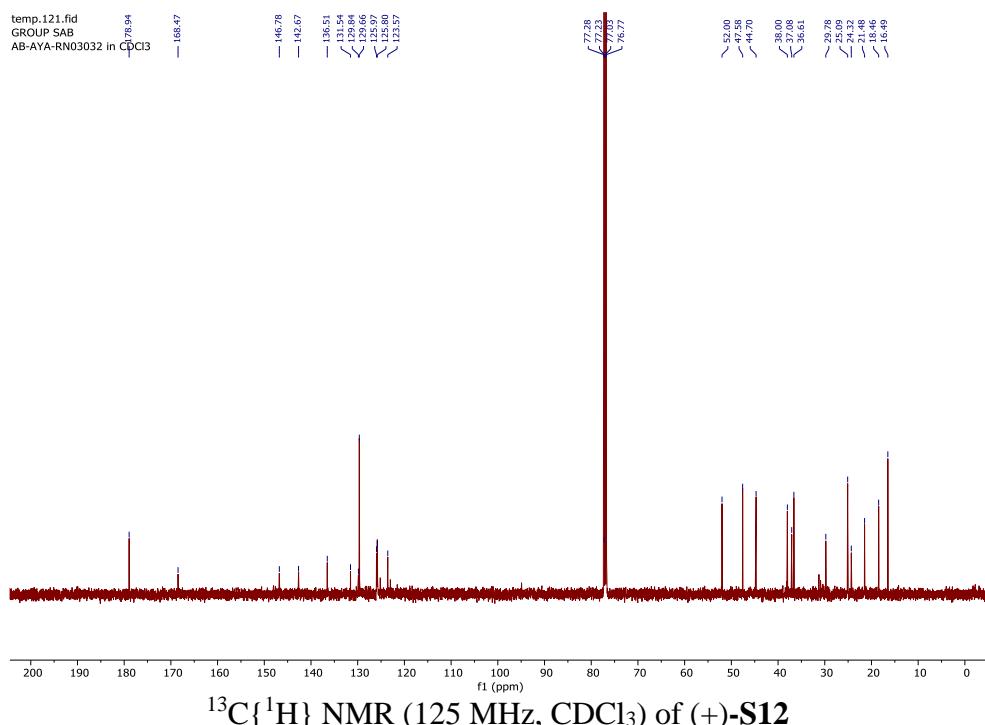
HRMS data of (+)-S11



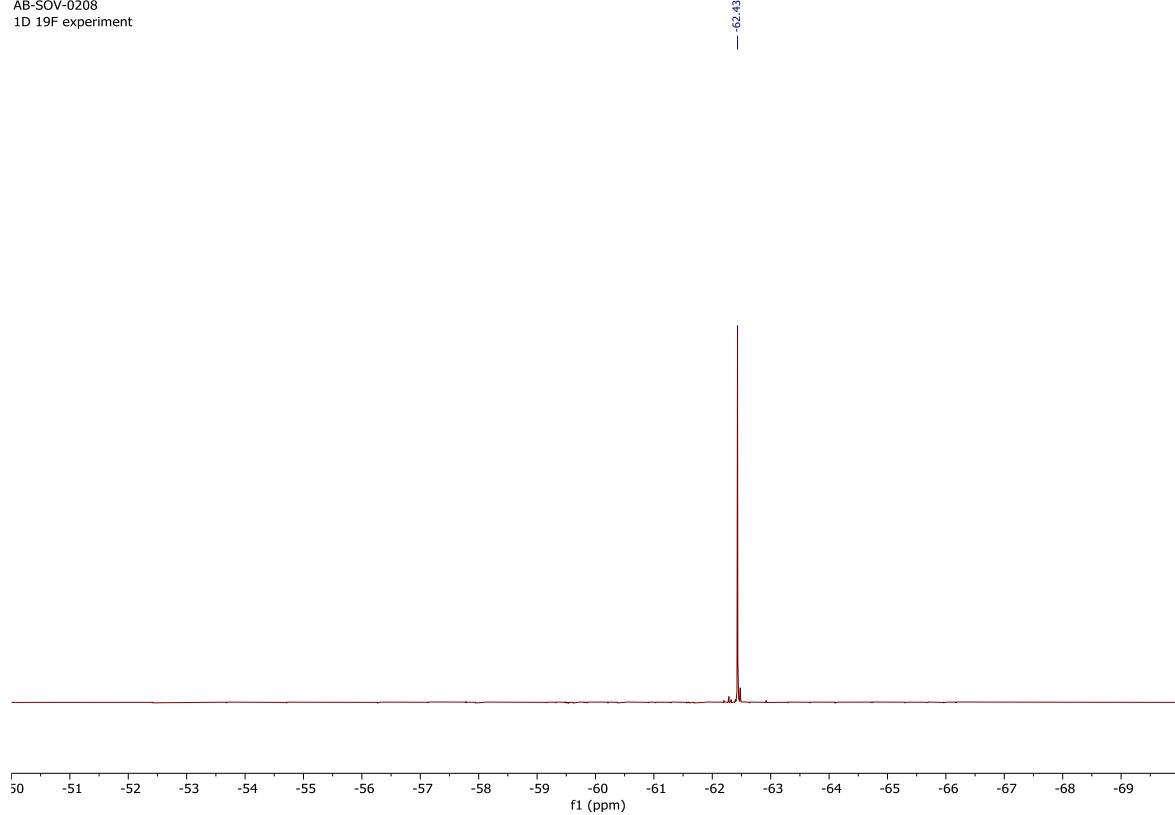
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GROUP SAB
AB-AYA-RN03032 in CDCl₃



temp.121.fid
GROUP SAB
AB-AYA-RN03032 in CDCl₃



AB-SOV-0208
1D 19F experiment

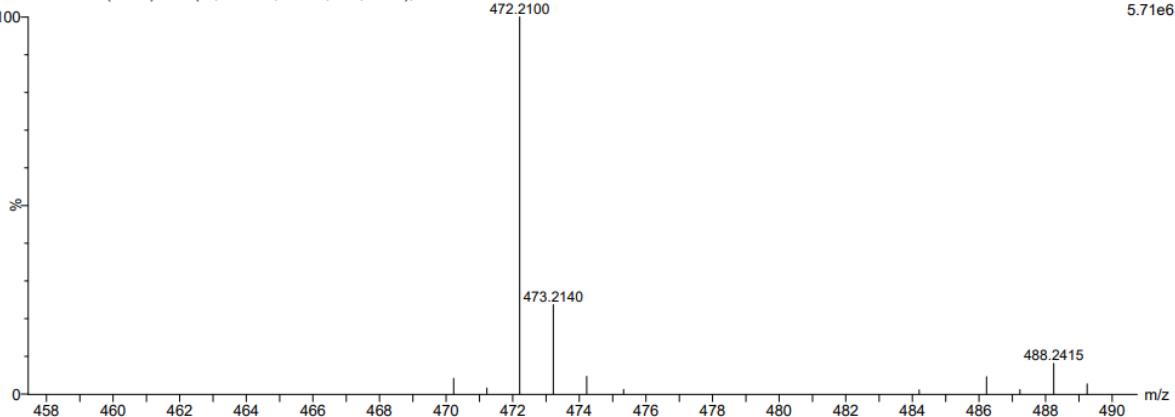
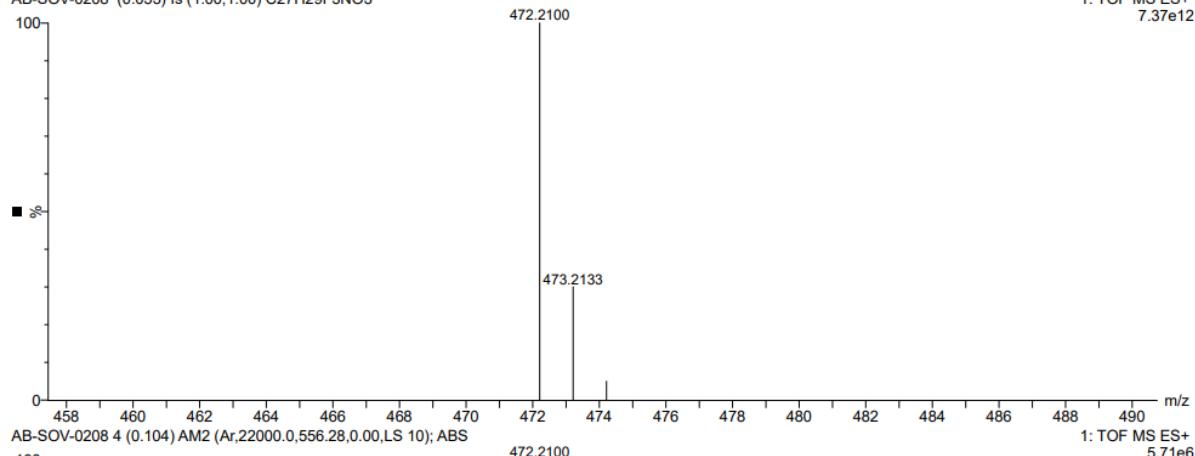


$^{19}\text{F}\{^1\text{H}\}$ NMR (376 MHz, CDCl_3) of (+)-**S12**

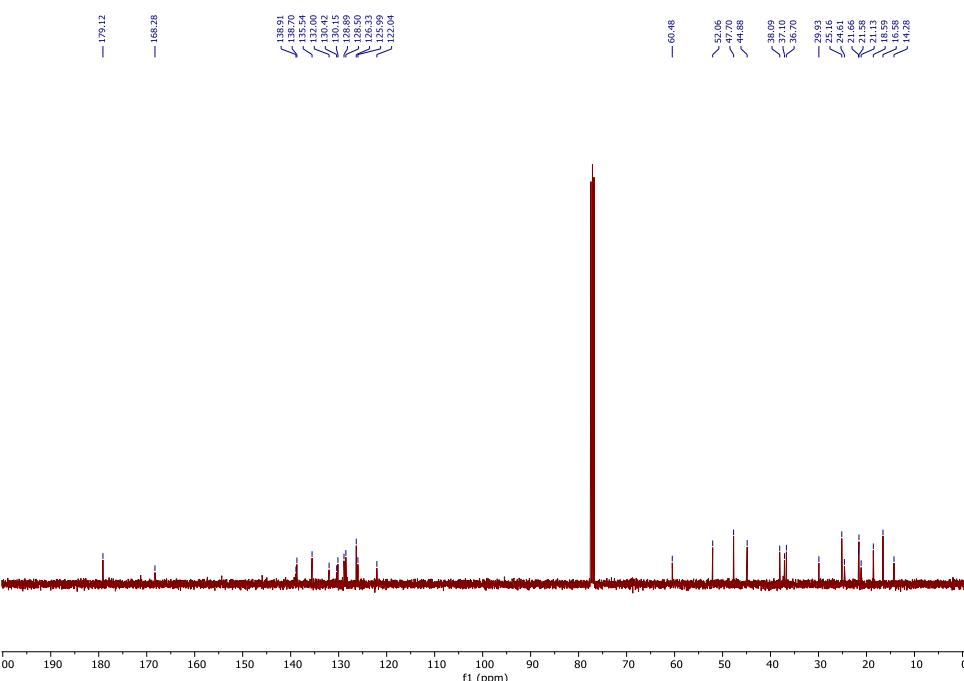
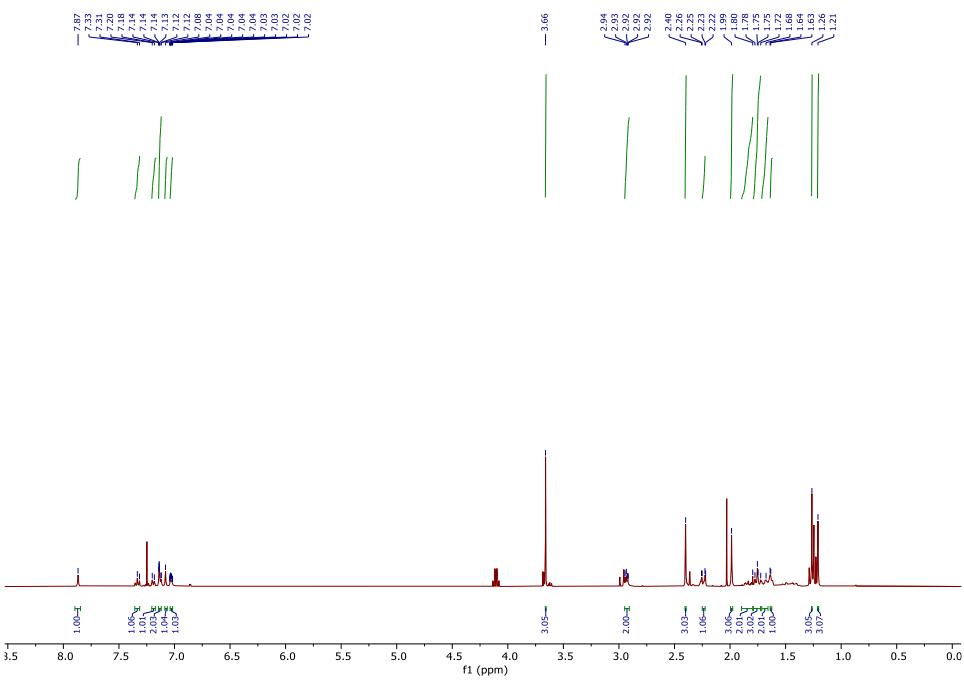
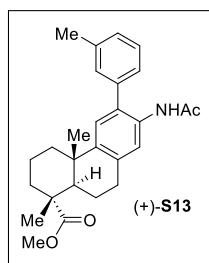
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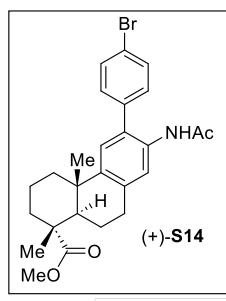
IISER - KOLKATA

1: TOF MS ES+
7.37e12

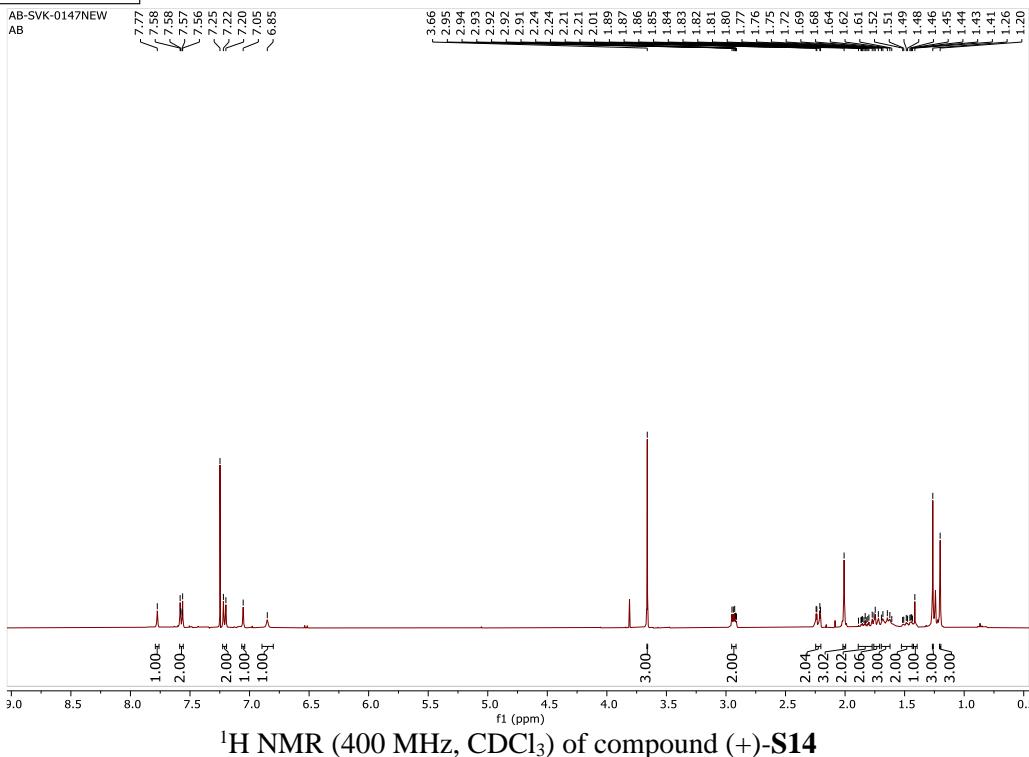


HRMS data of (+)-S12

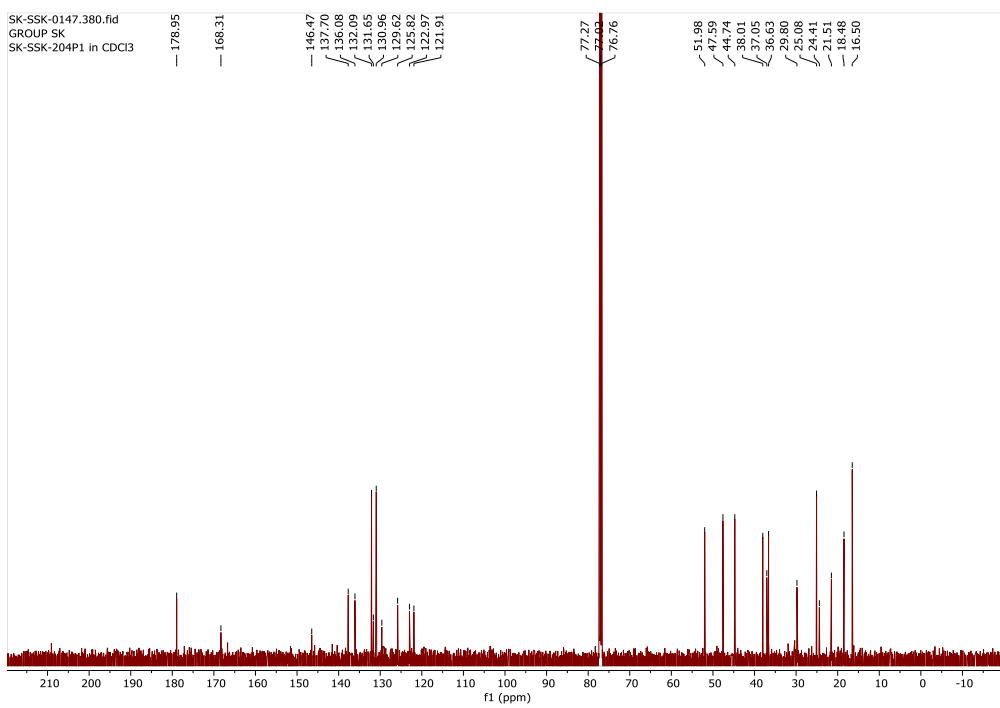




AB-SVK-0147NEW
AB



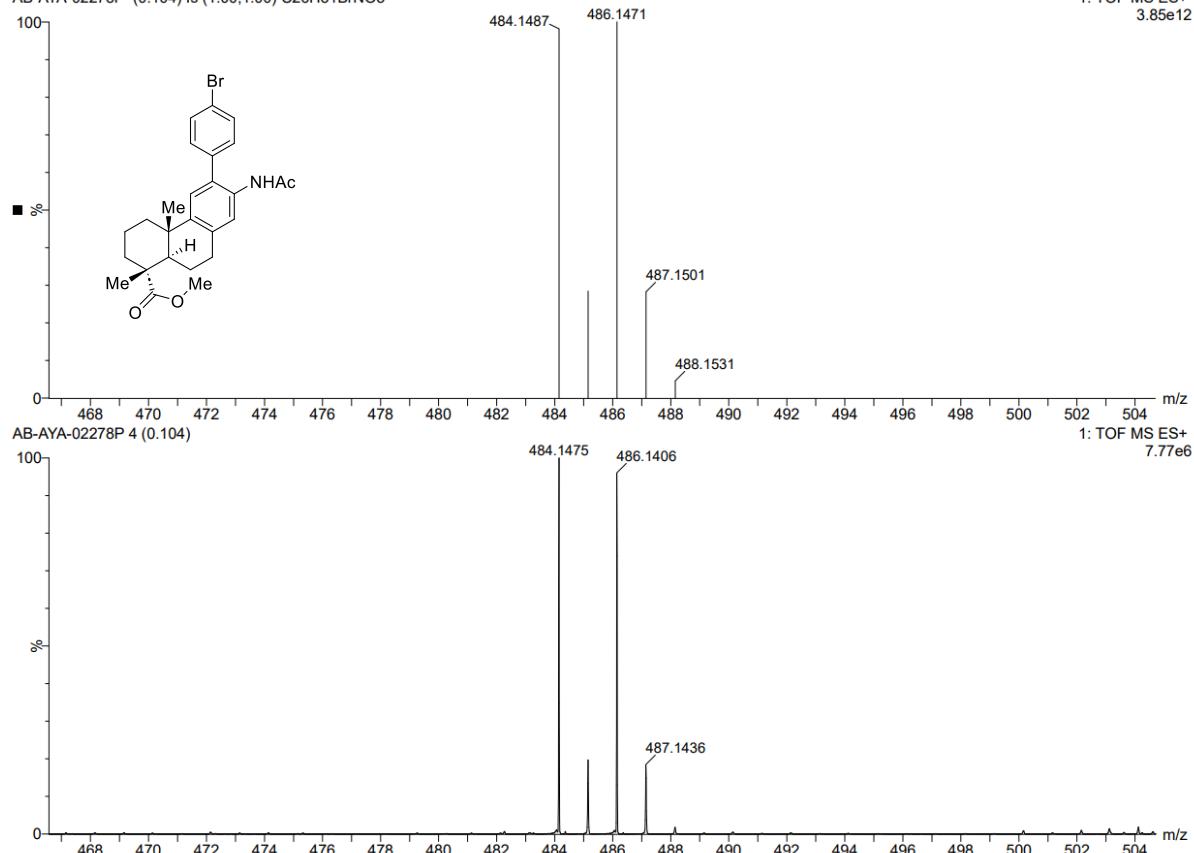
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SK-SSK-204P1 in CDCl₃



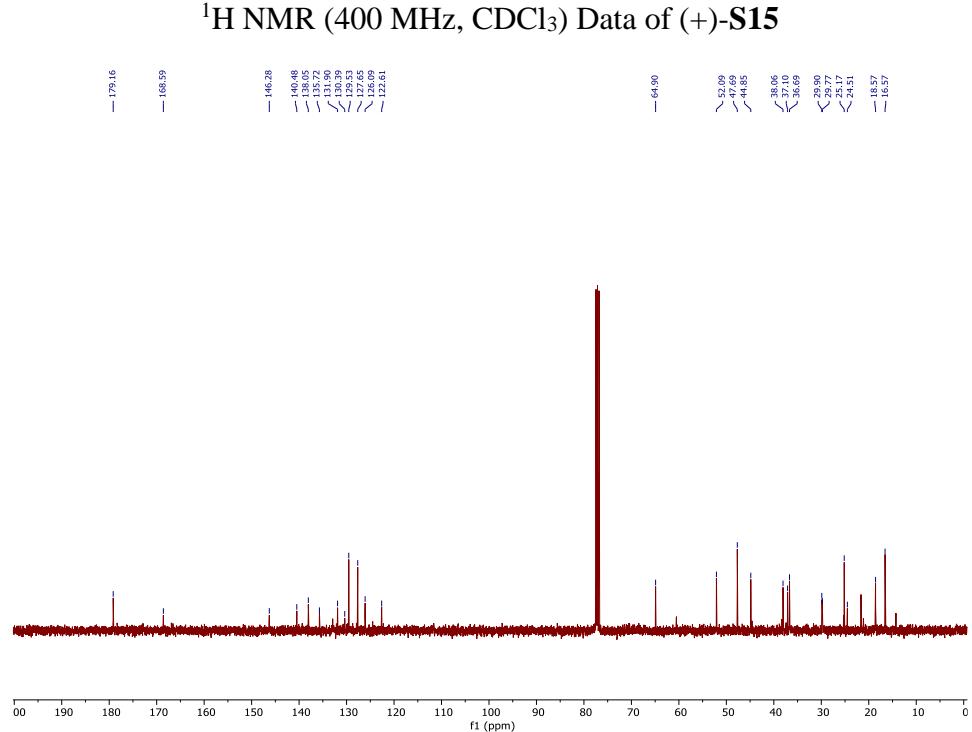
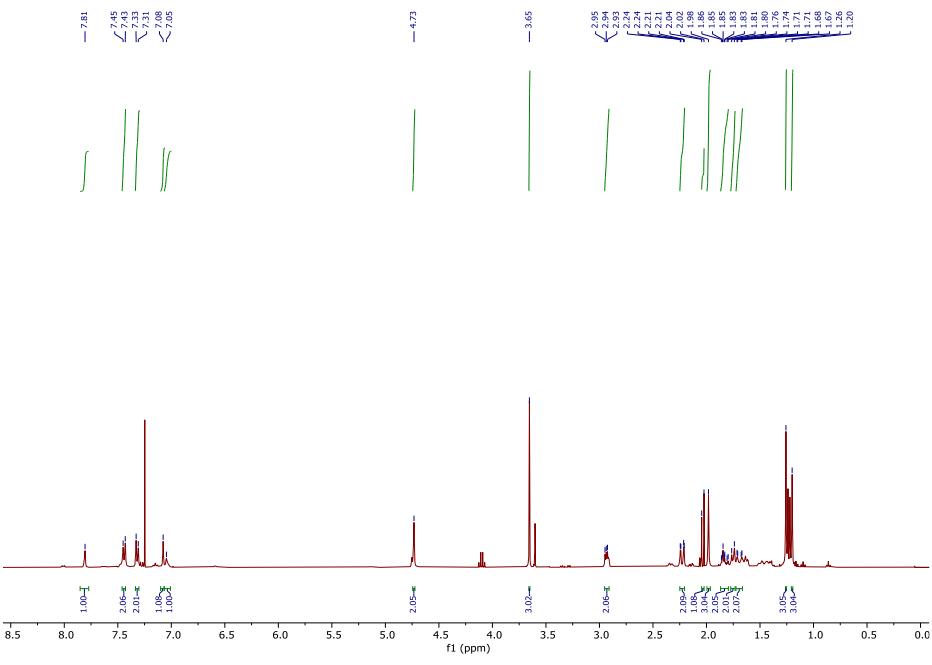
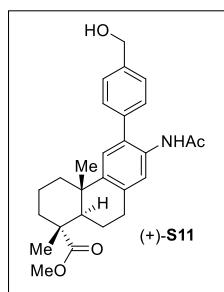
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AB-AYA-02278P (0.104) ls (1.00,1.00) C26H31BrNO3

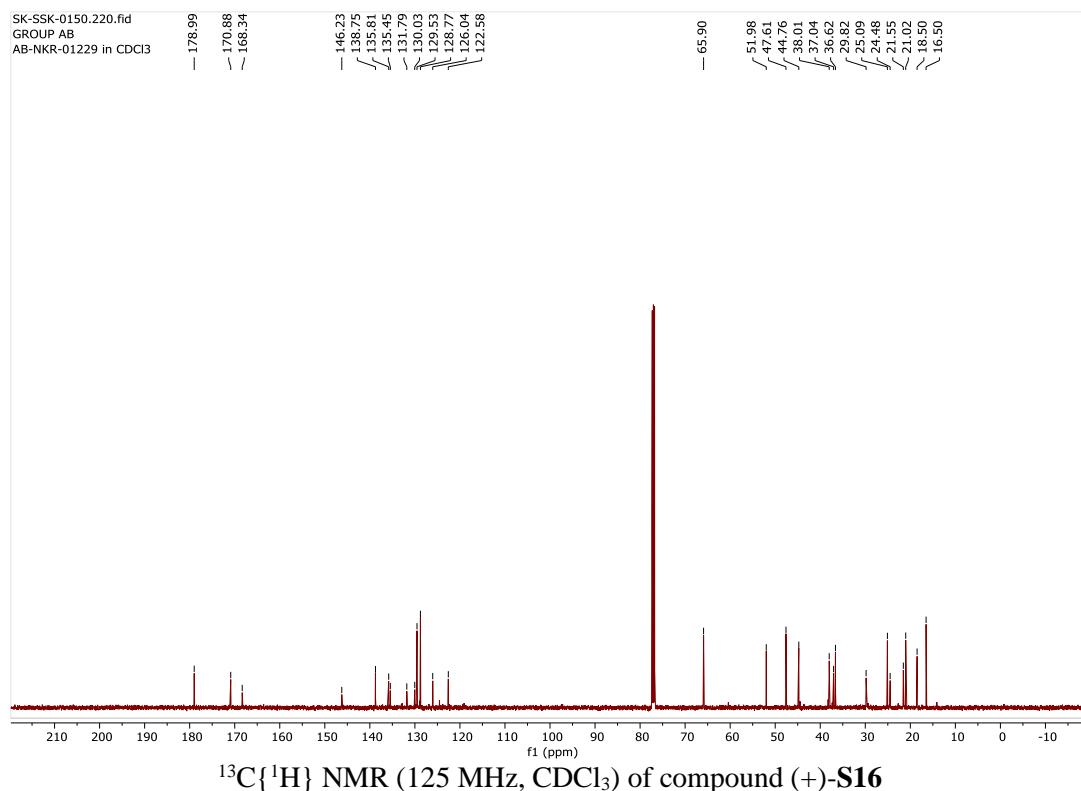
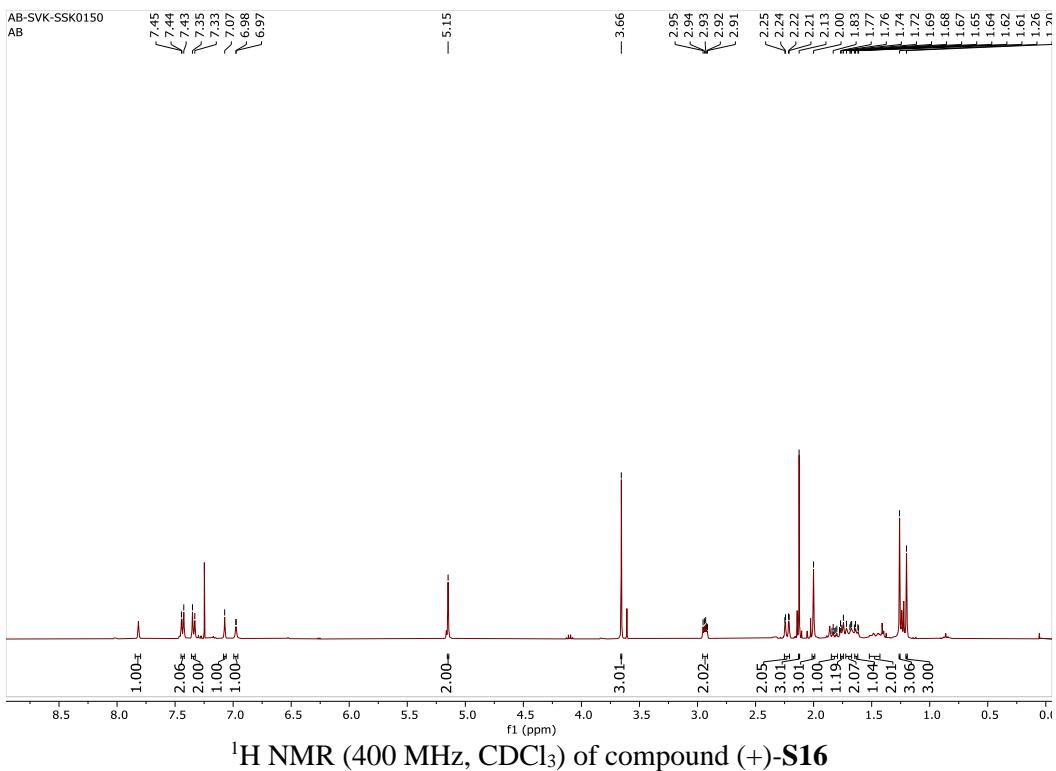
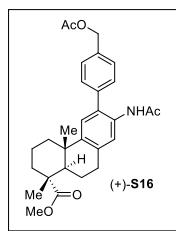
IISER - KOLKATA

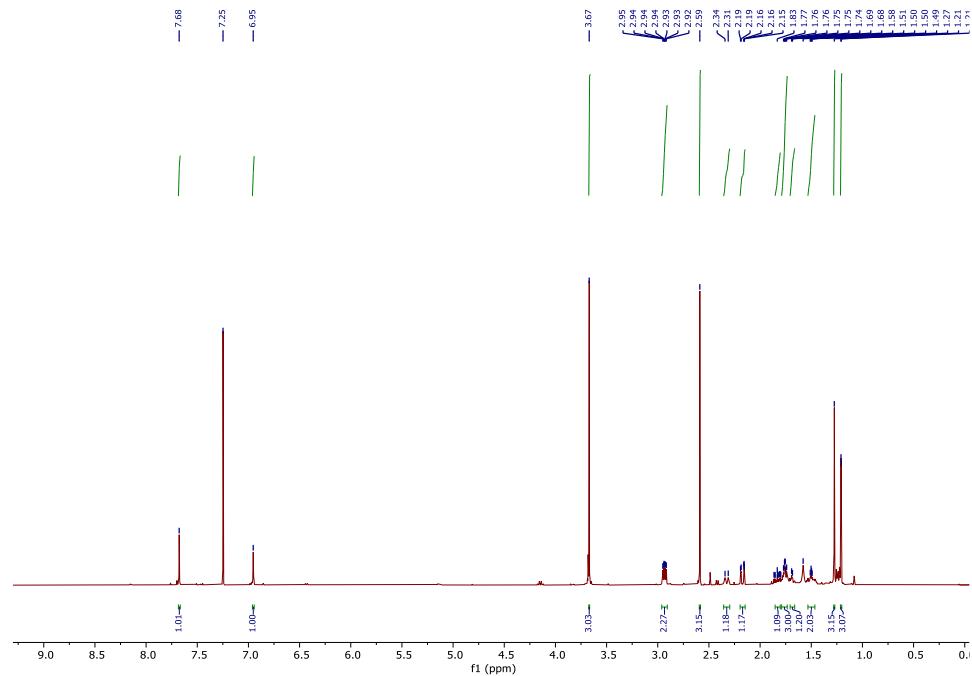
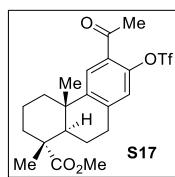
1: TOF MS ES+
3.85e12



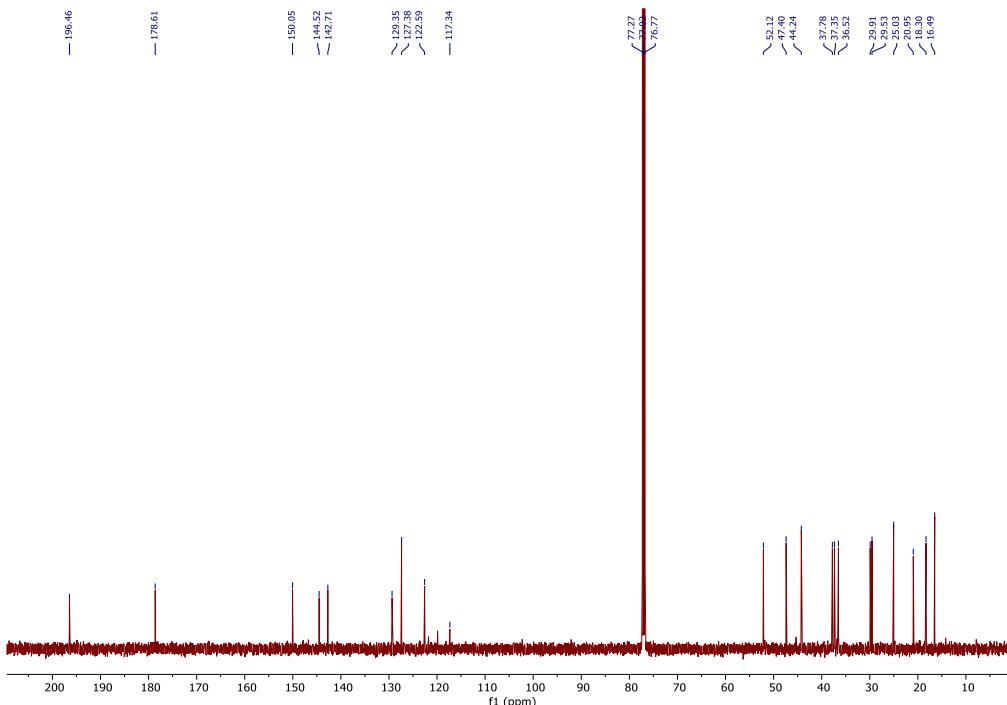
HRMS Data of (+)-S14







¹H NMR (500 MHz, CDCl₃) of compound **S17**

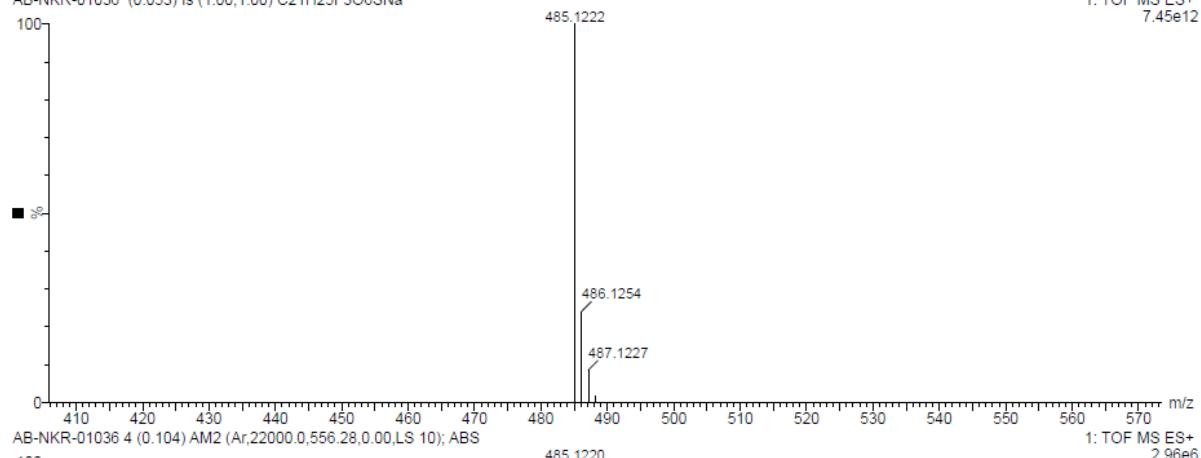


¹³C{¹H} NMR (125 MHz, CDCl₃) of compound **S17**

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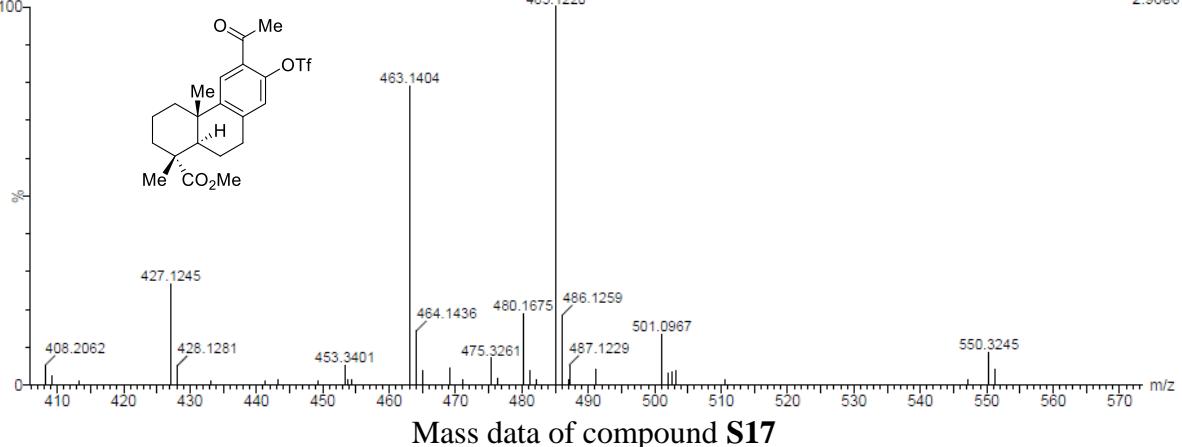
IISER - KOLKATA

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7.45e12

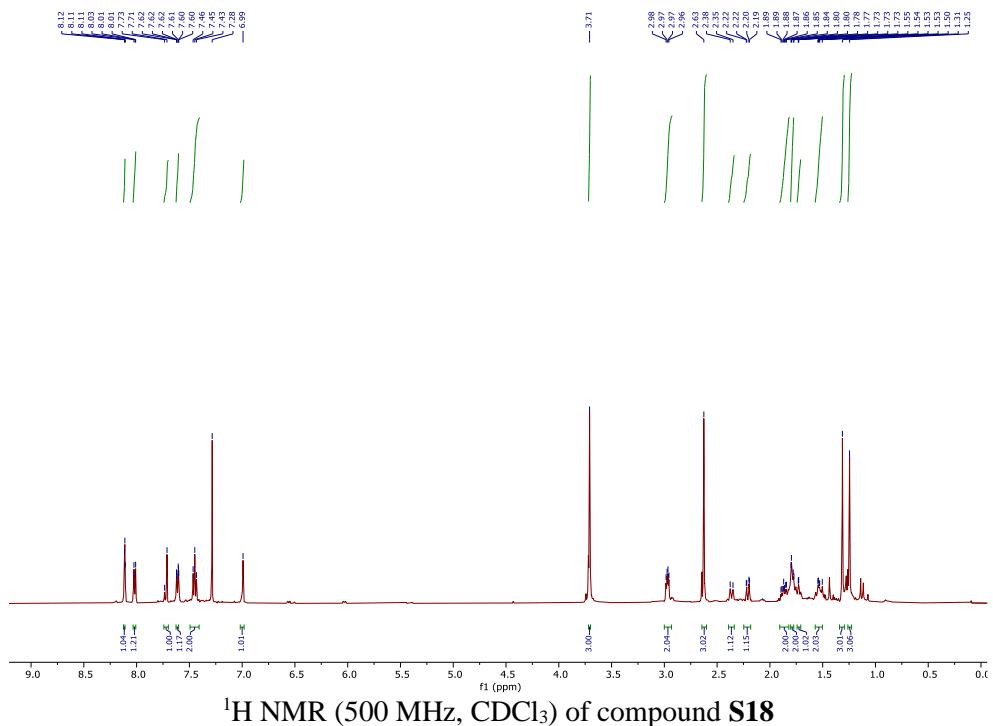
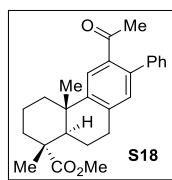


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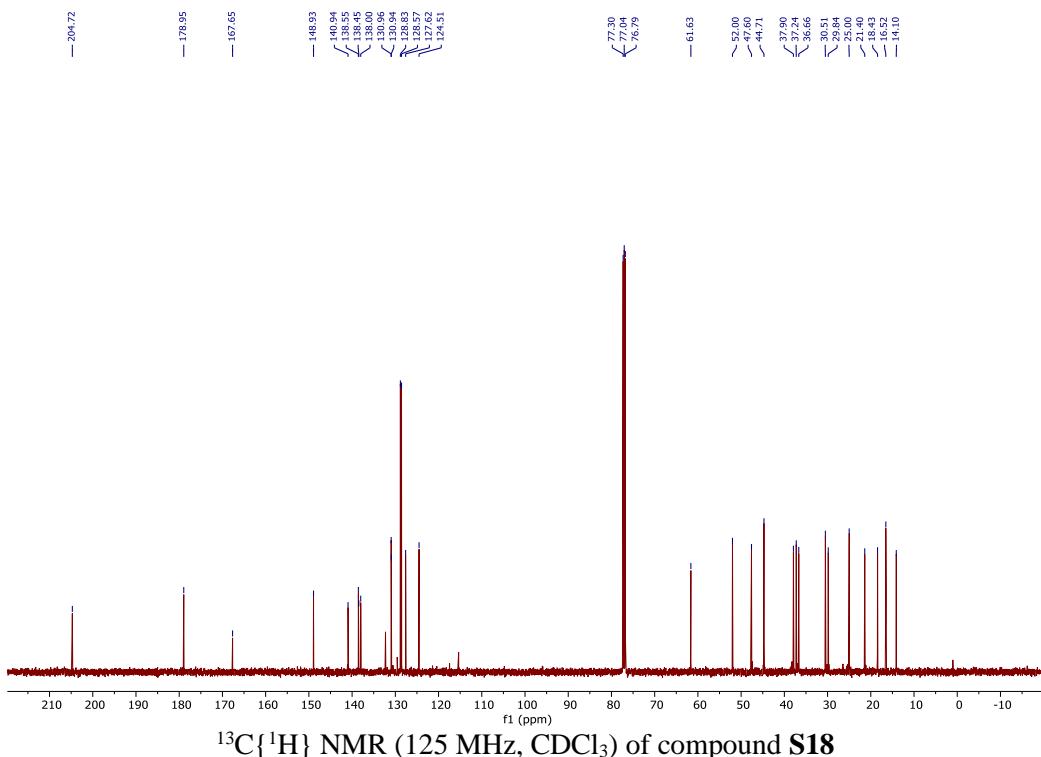
1: TOF MS ES+
2.96e6



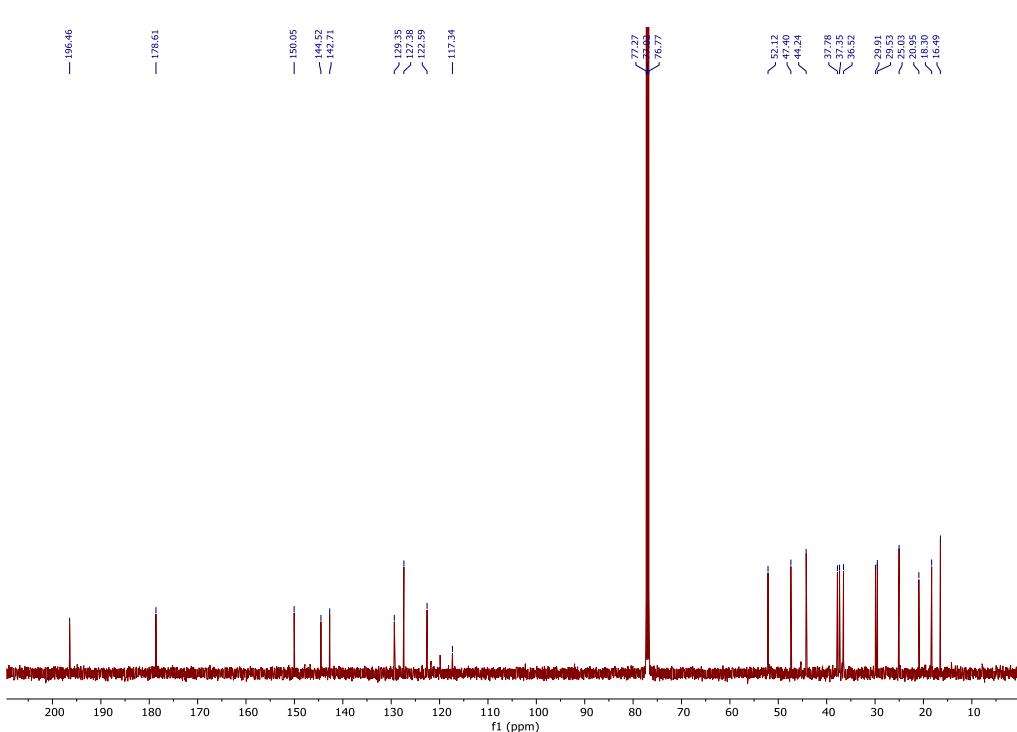
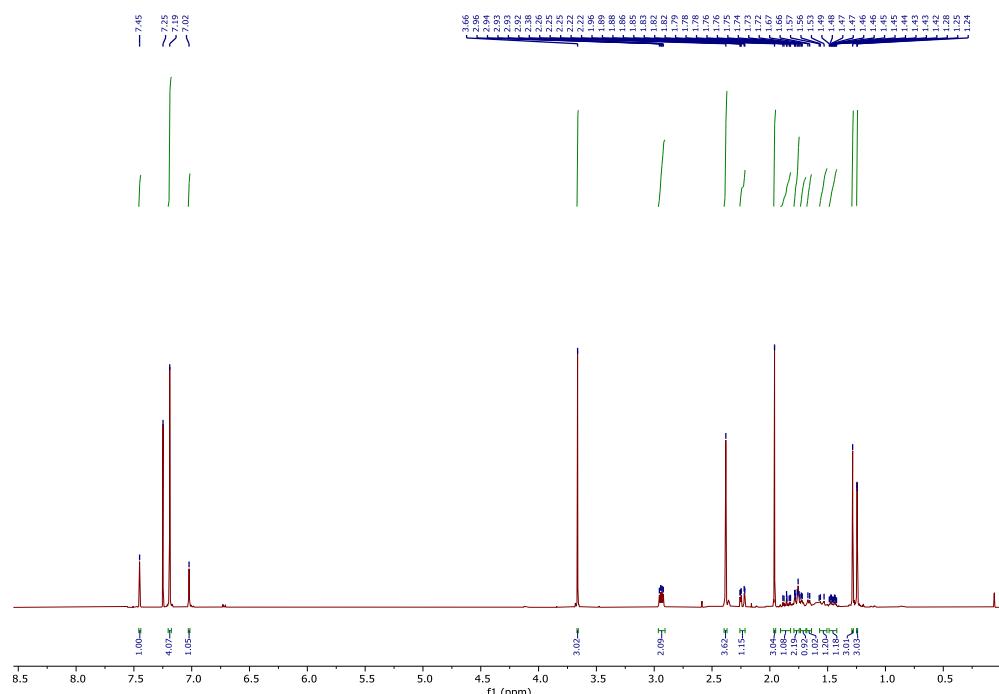
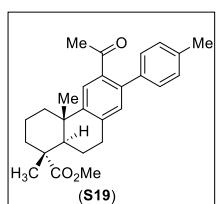
Mass data of compound **S17**



¹H NMR (500 MHz, CDCl_3) of compound S18



¹³C{¹H} NMR (125 MHz, CDCl_3) of compound S18

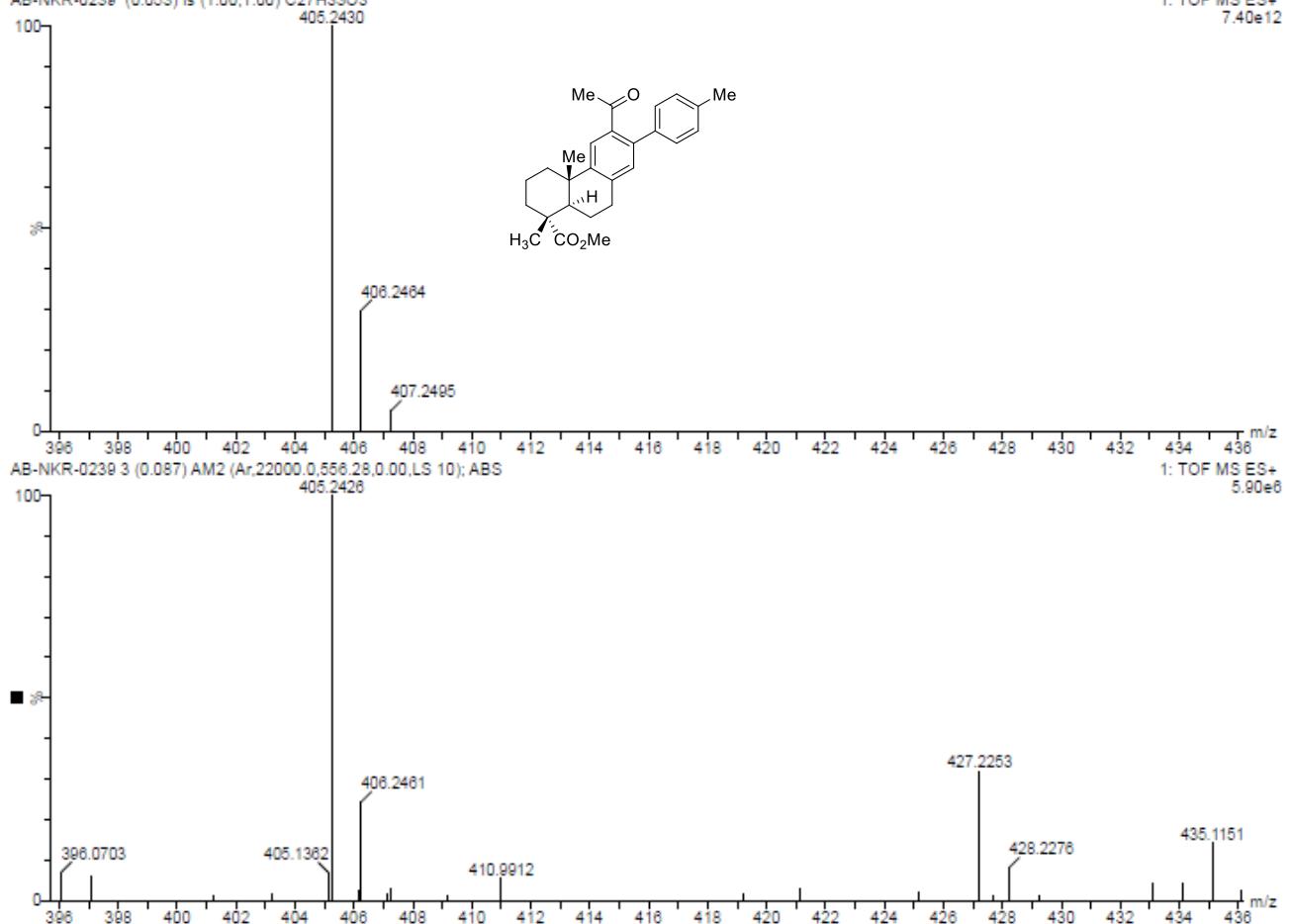


AB22-Apr-2024 13:13:33

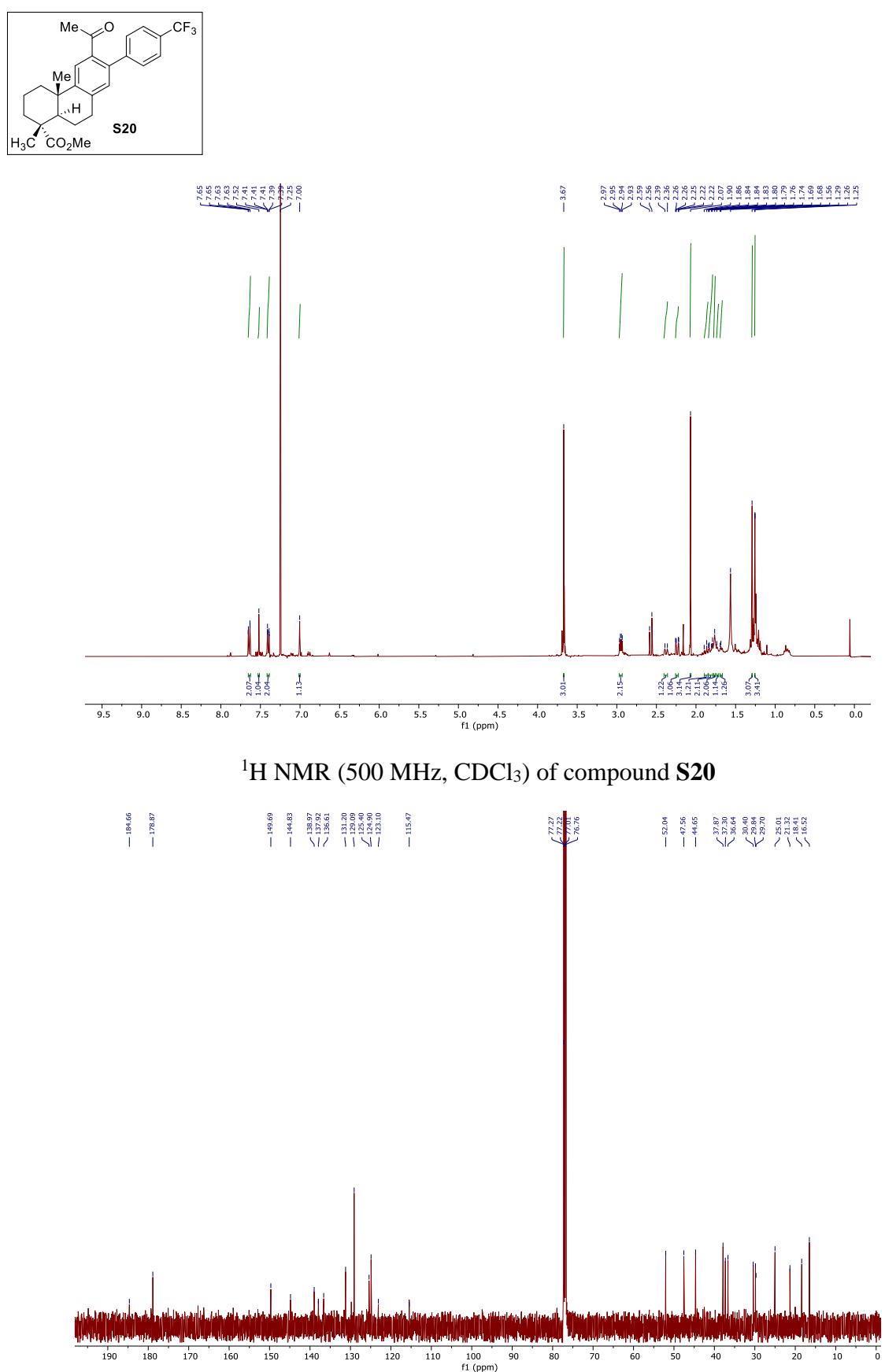
AB-NKR-0239 (0.053) ls (1.00,1.00) C₂₇H₃₃O₃

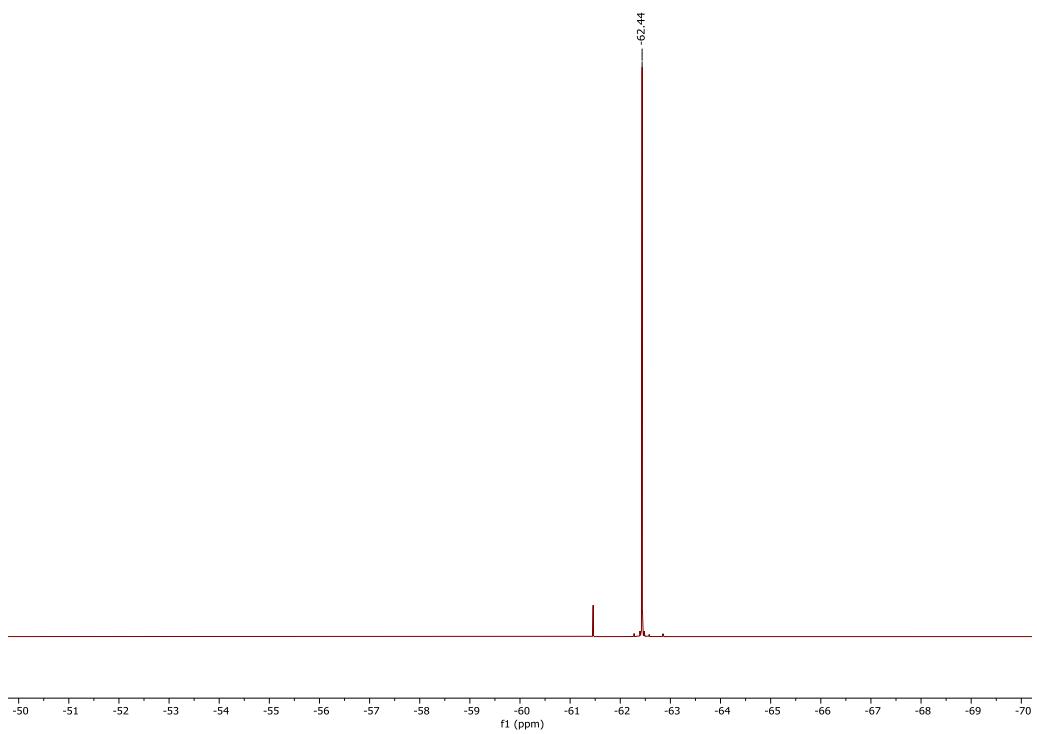
IISER - KOLKATA

1: TOF MS ES+
7.40e12



Mass spectrum of compound S19



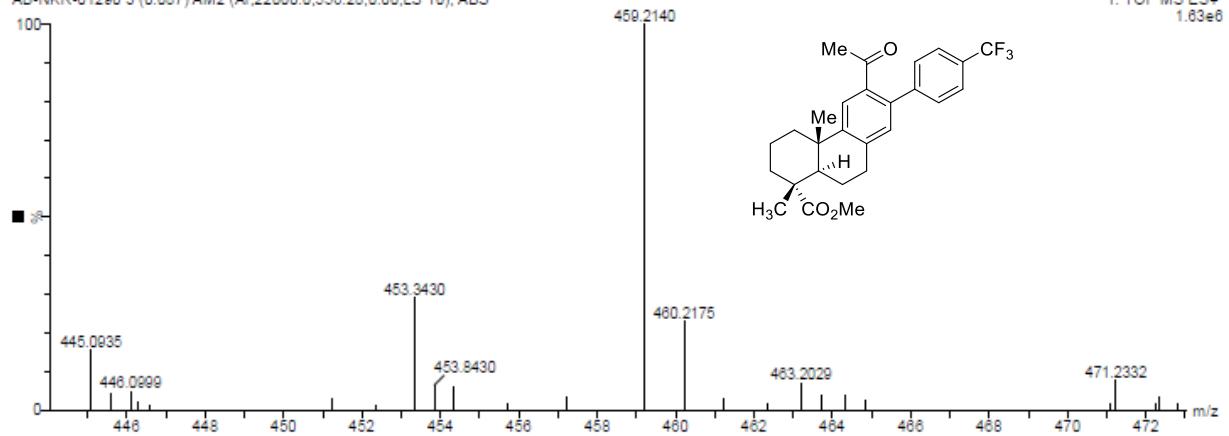
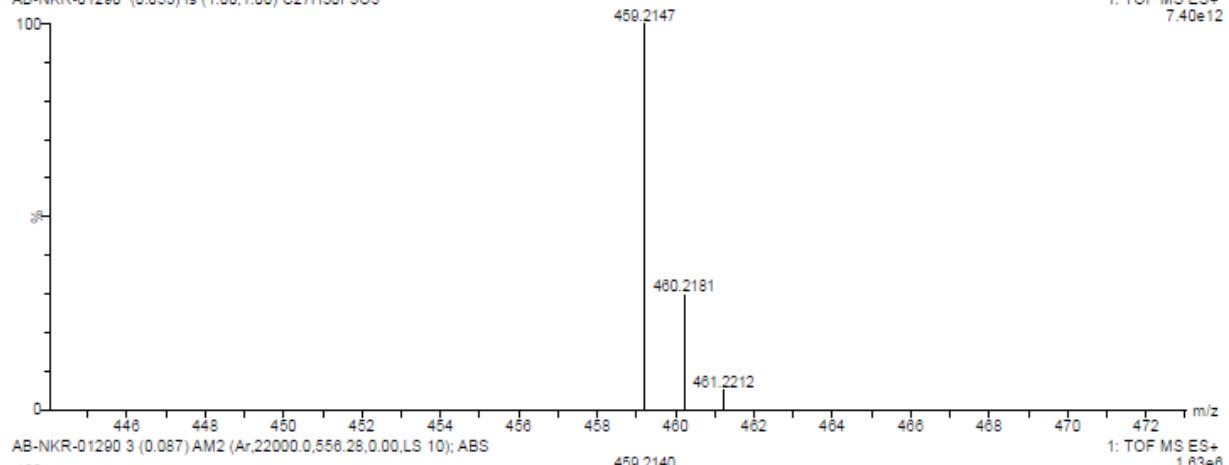


$^{19}\text{F}\{\text{H}\}$ NMR (471 MHz, CDCl_3) of compound **S20**

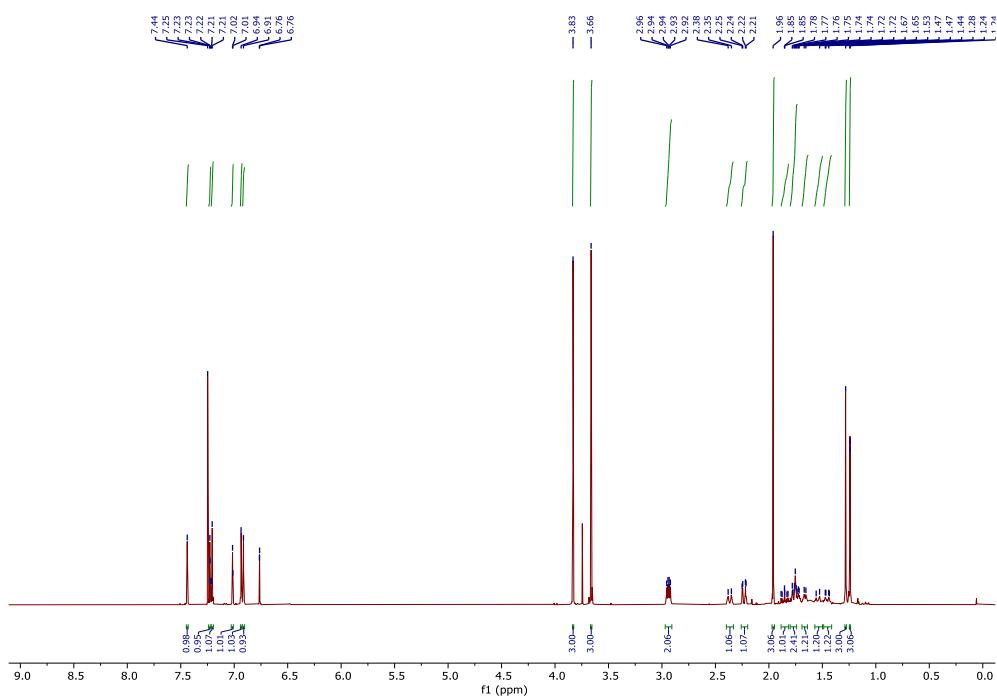
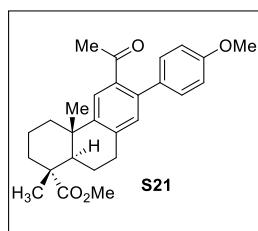
AB22-Apr-2024 13:16:48
AB-NKR-01290 (0.053) ls (1.00,1.00) C27H30F3O3

IISER - KOLKATA

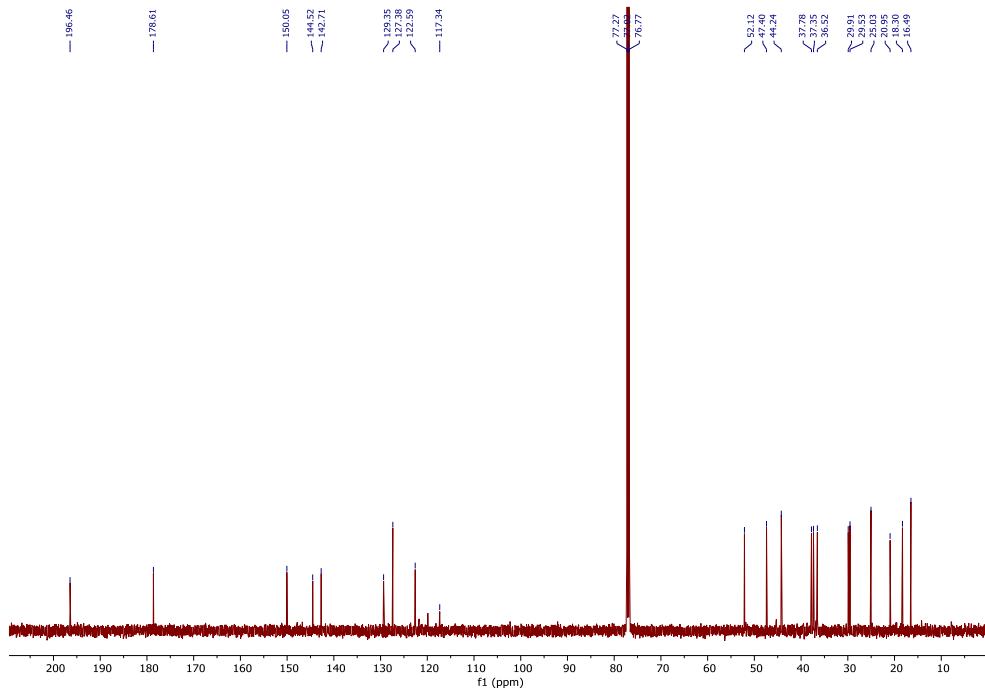
1: TOF MS ES+
7.40e12



Mass spectrum of compound **S20**



¹H NMR (500 MHz, CDCl₃) of compound S21

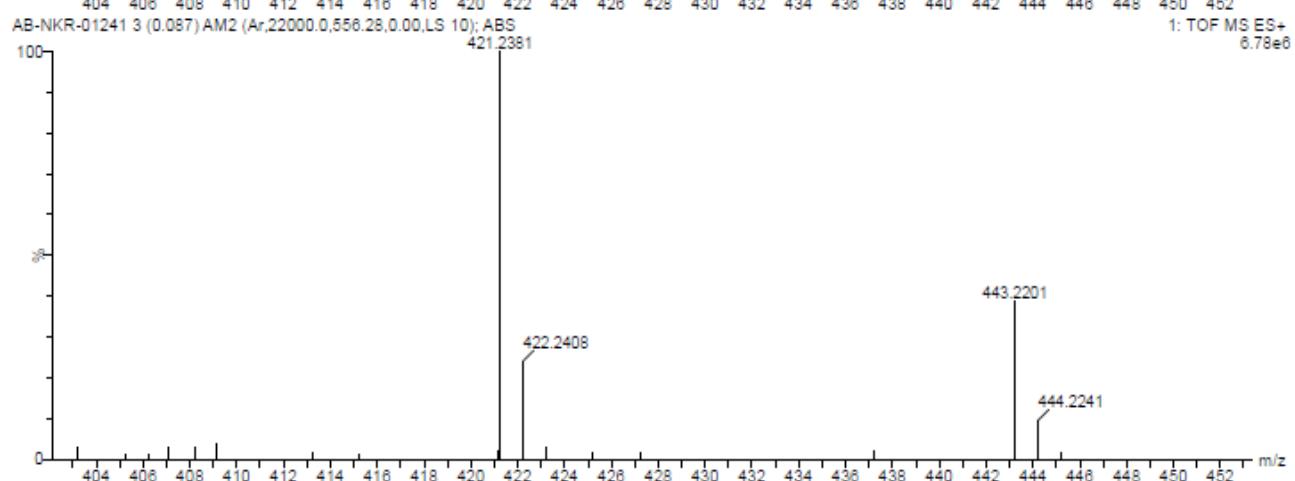
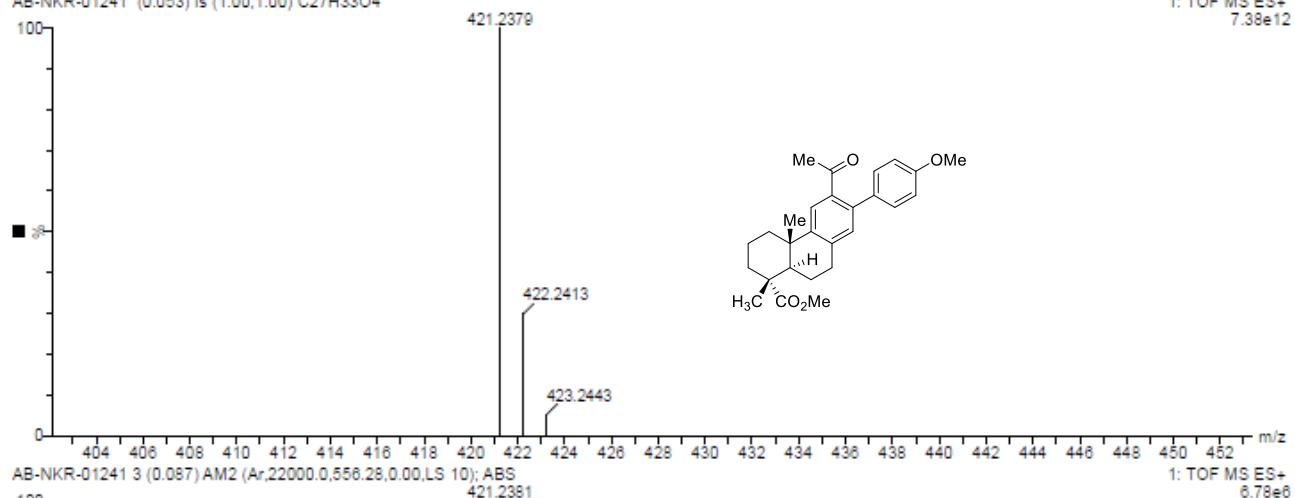


¹³C{¹H} NMR (125 MHz, CDCl₃) of compound S21

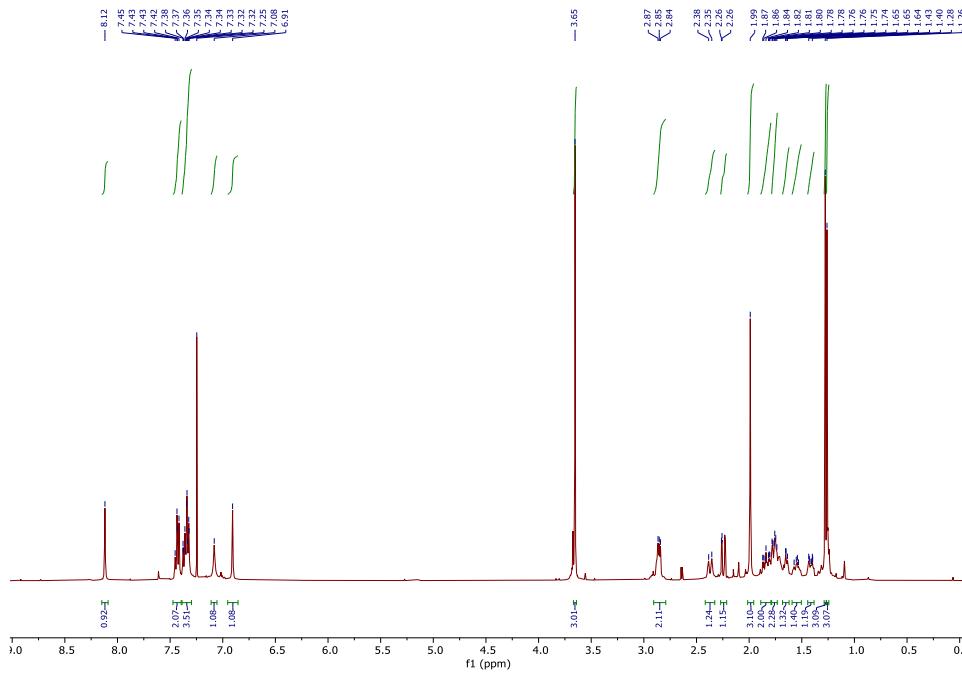
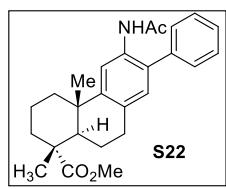
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AB-NKR-01241 (0.053) ls (1.00,1.00) C27H33O4

IISER - KOLKATA

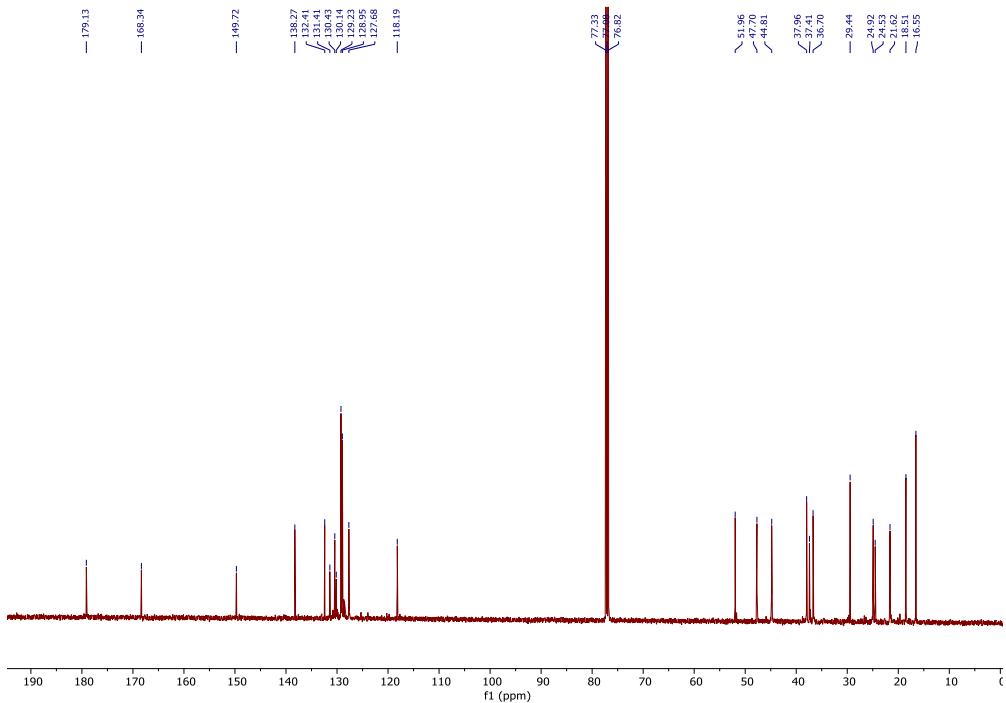
1: TOF MS ES+
7.38e12



Mass spectrum of compound S21



^1H NMR (500 MHz, CDCl_3) of compound **S22**

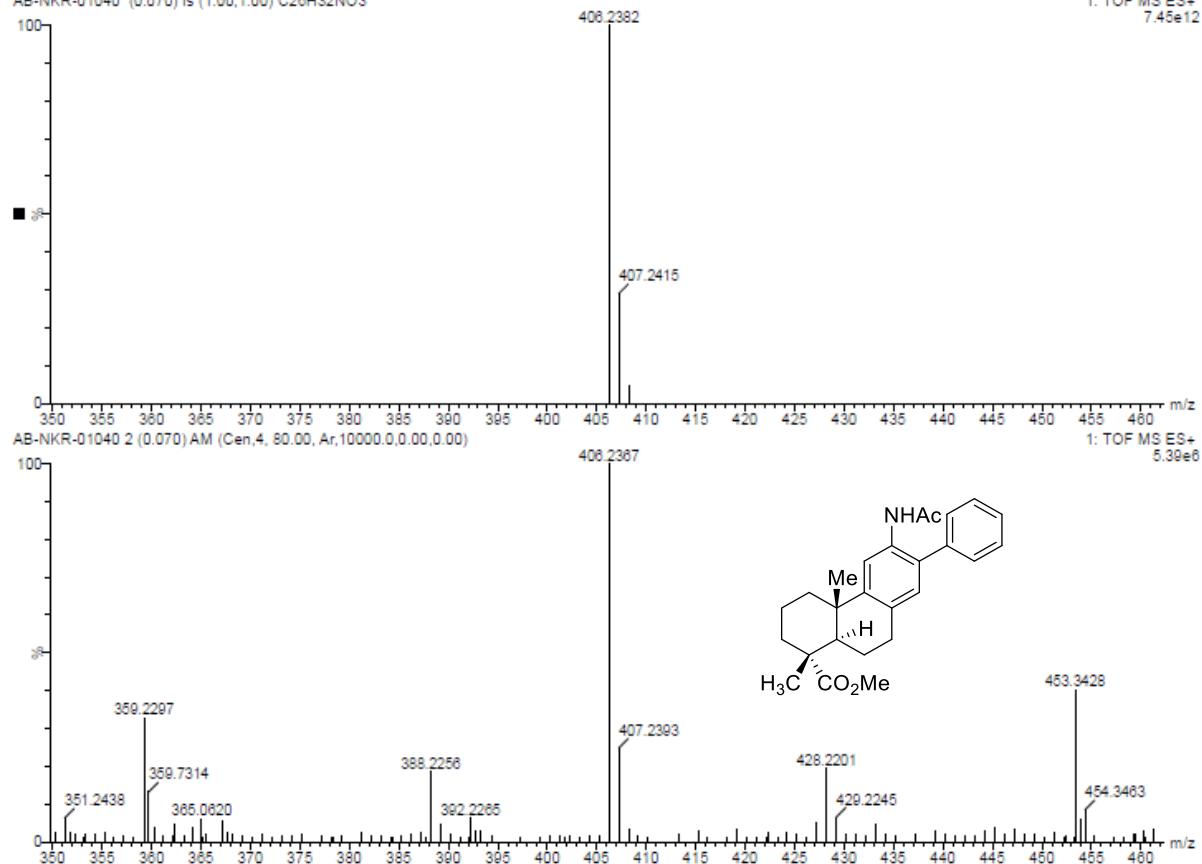


$^{13}\text{C}\{^1\text{H}\}$ NMR (125 MHz, CDCl_3) of compound **S22**

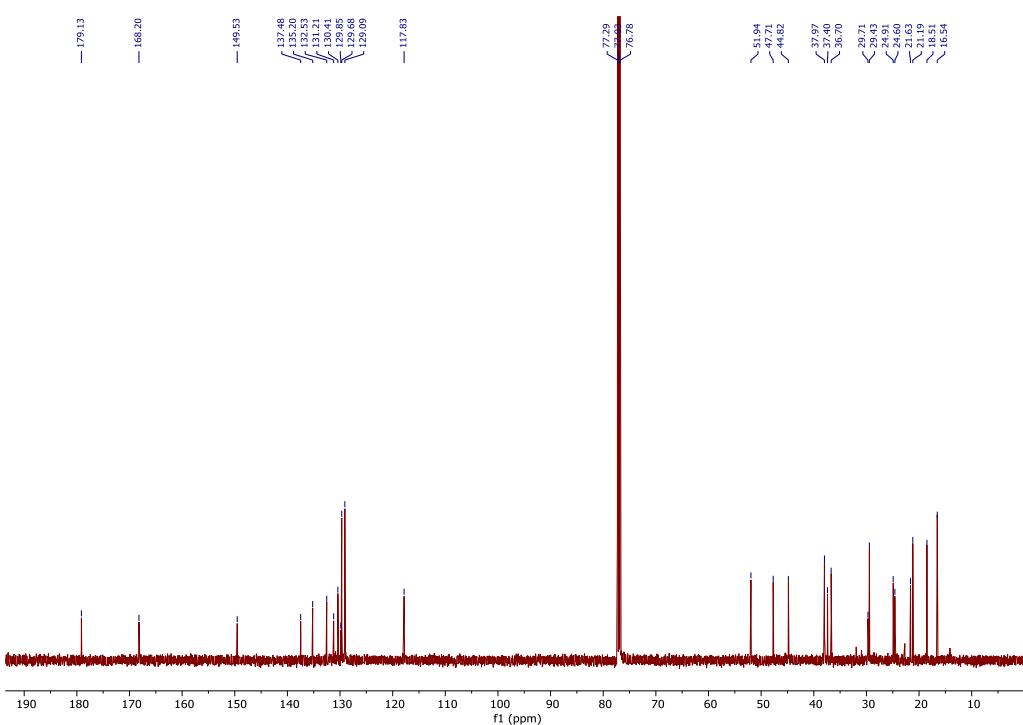
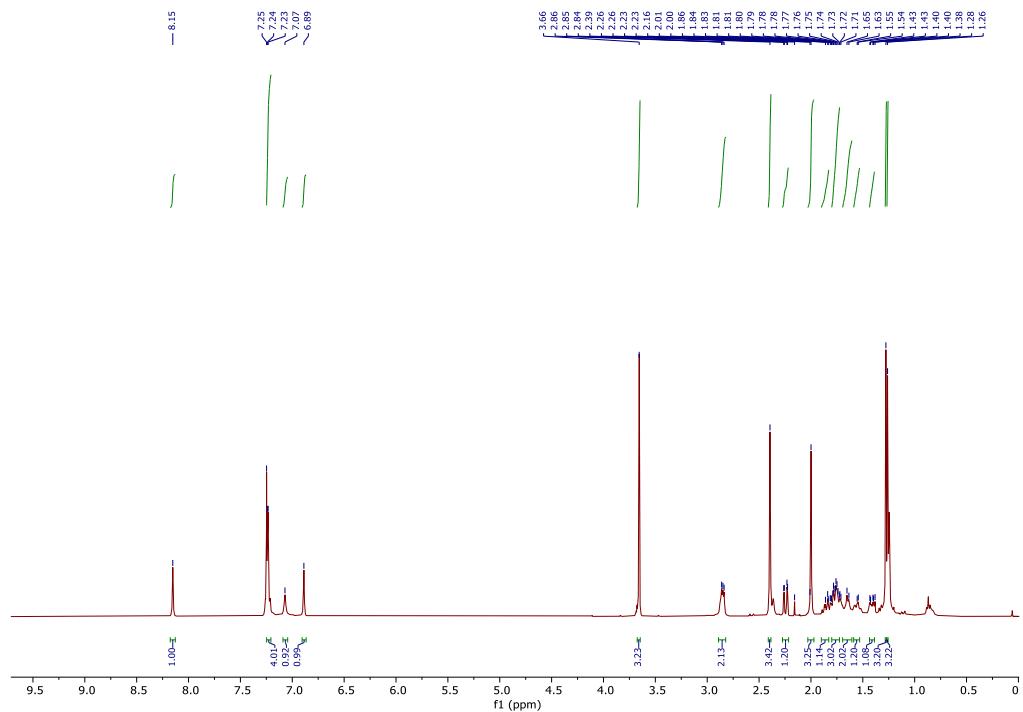
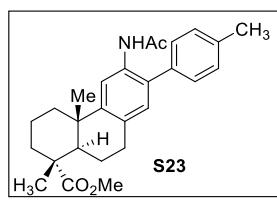
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IISER - KOLKATA

1: TOF MS ES+
7.45e12



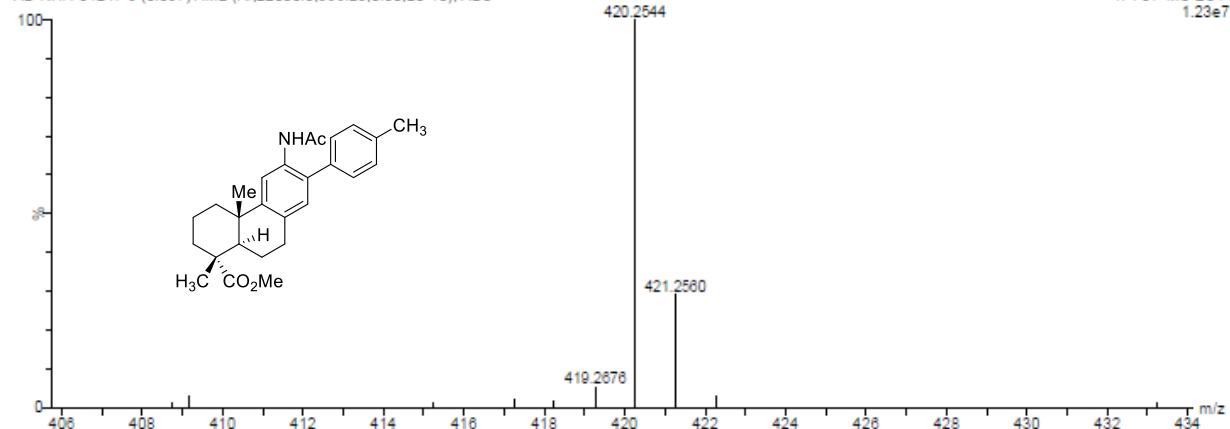
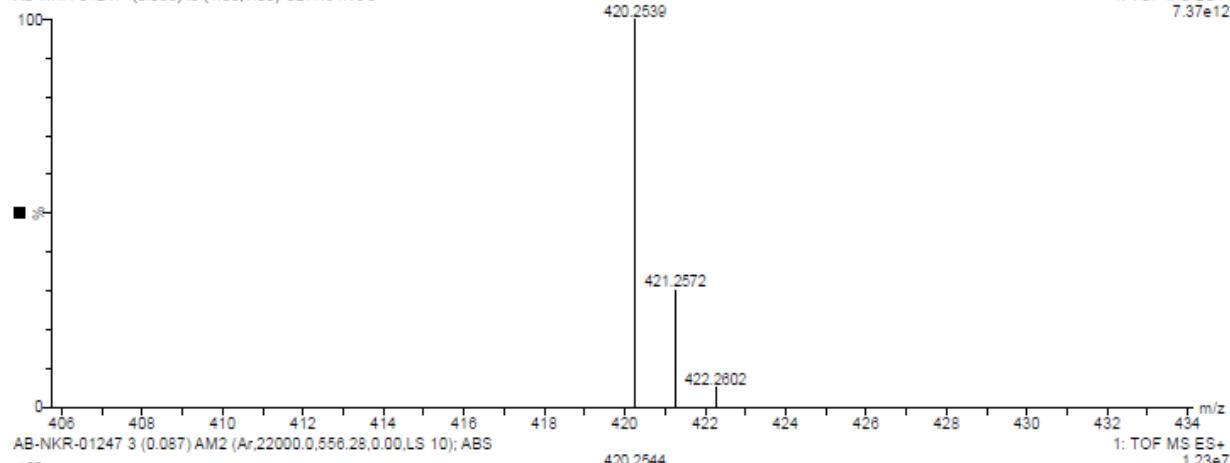
Mass spectrum of compound S22



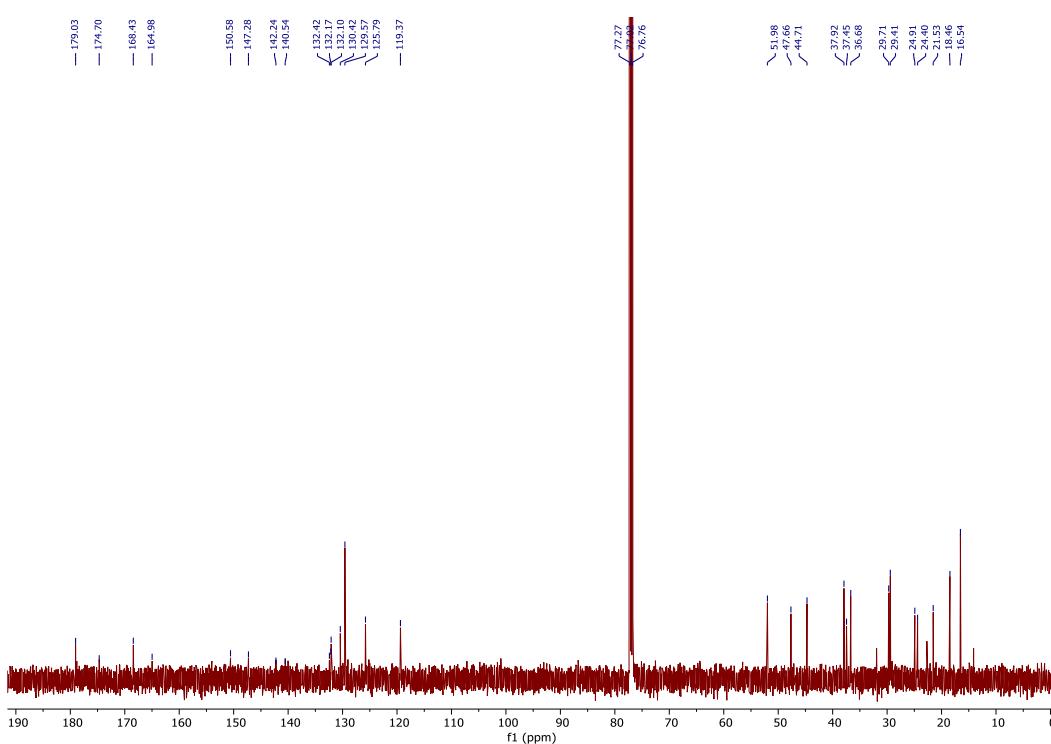
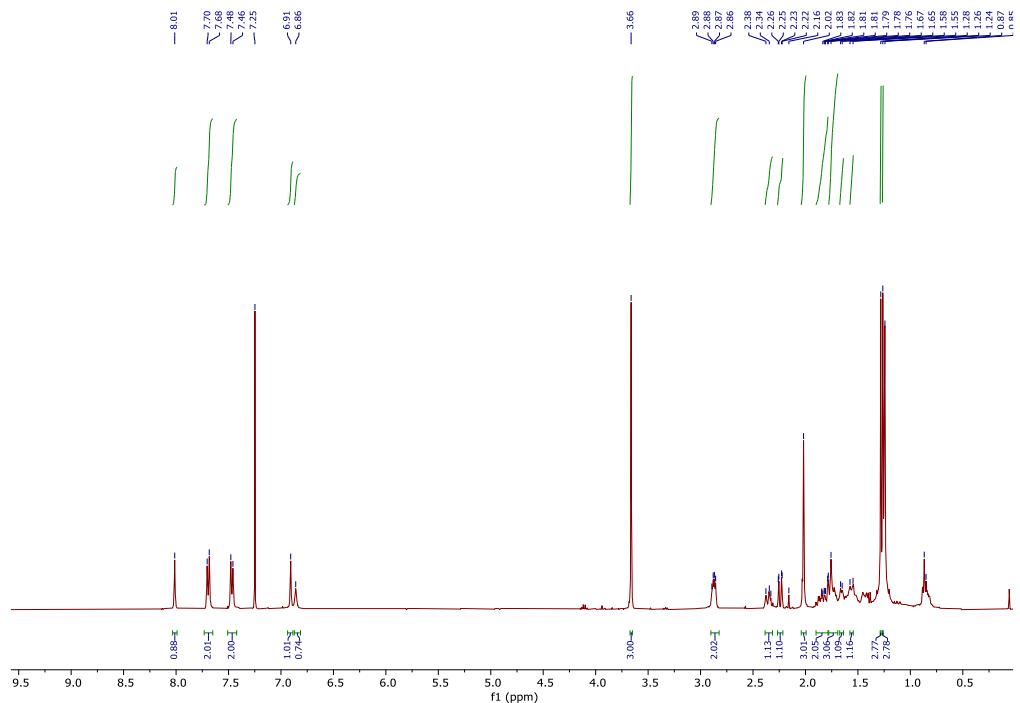
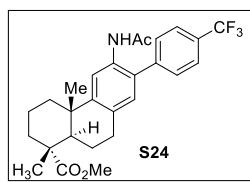
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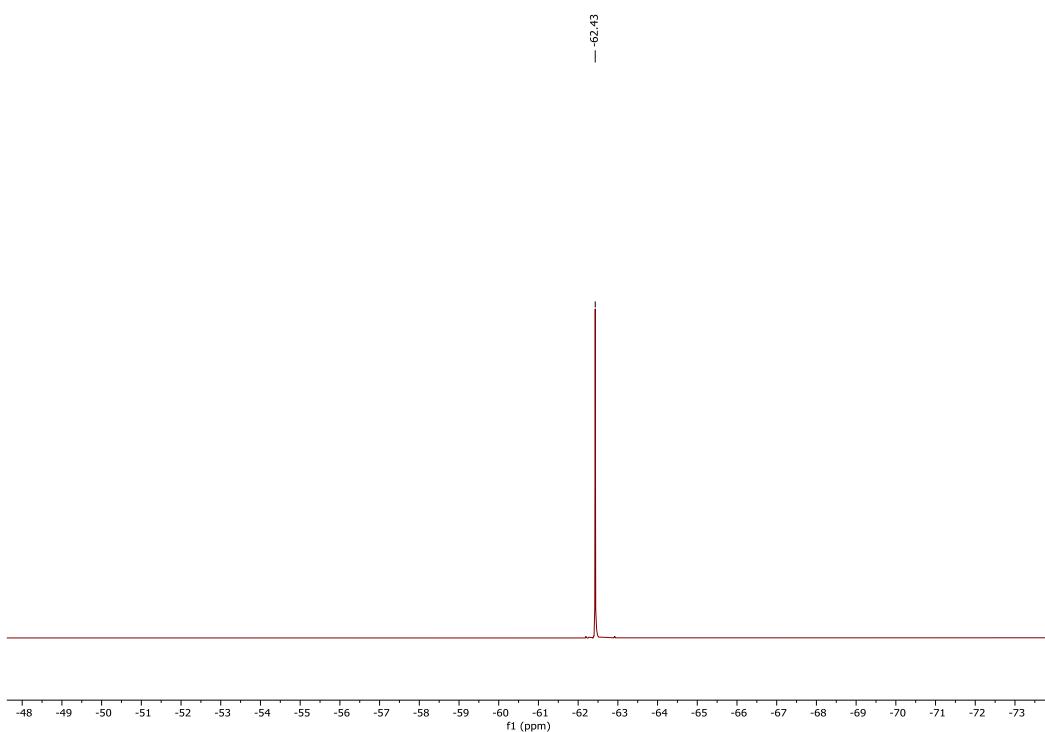
IISER - KOLKATA

1: TOF MS ES+
7.37e12



Mass data of compound S23



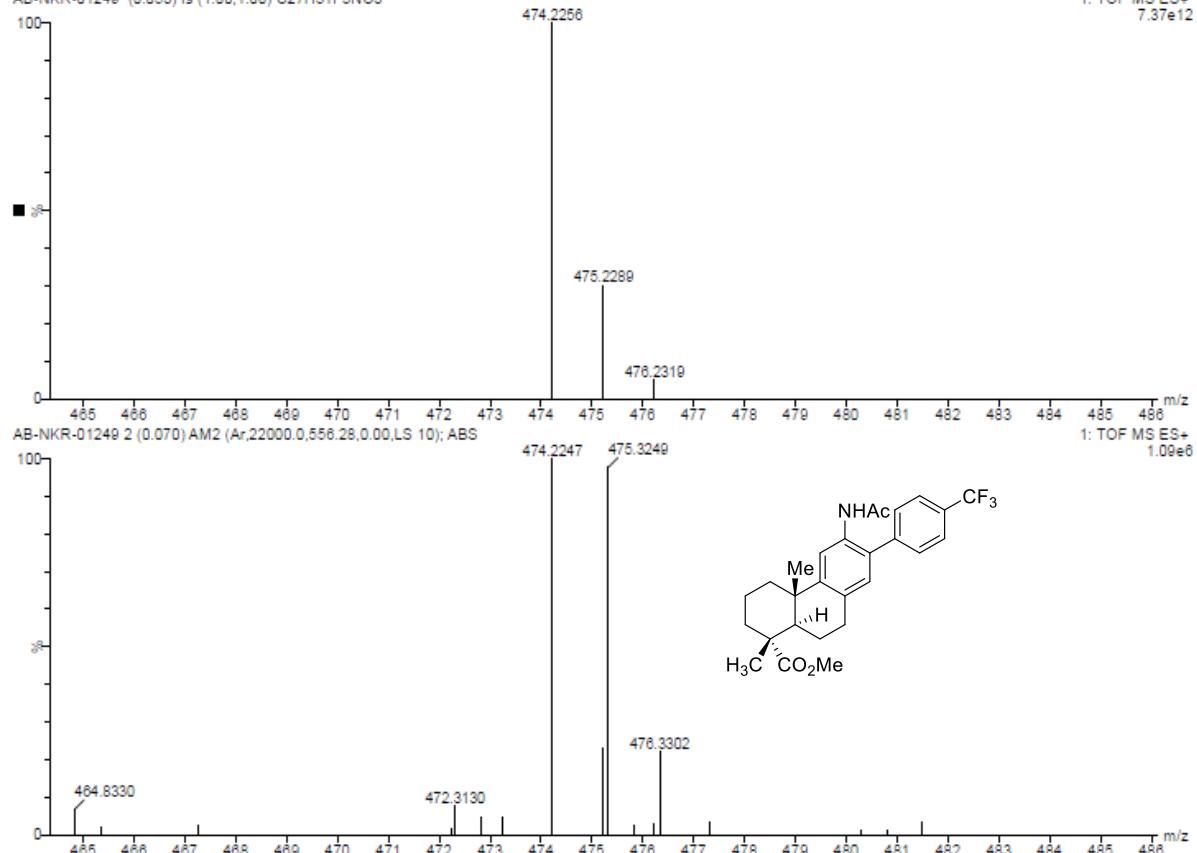


${}^{19}\text{F}\{{}^1\text{H}\}$ NMR (376 MHz, CDCl_3) of compound **S24**

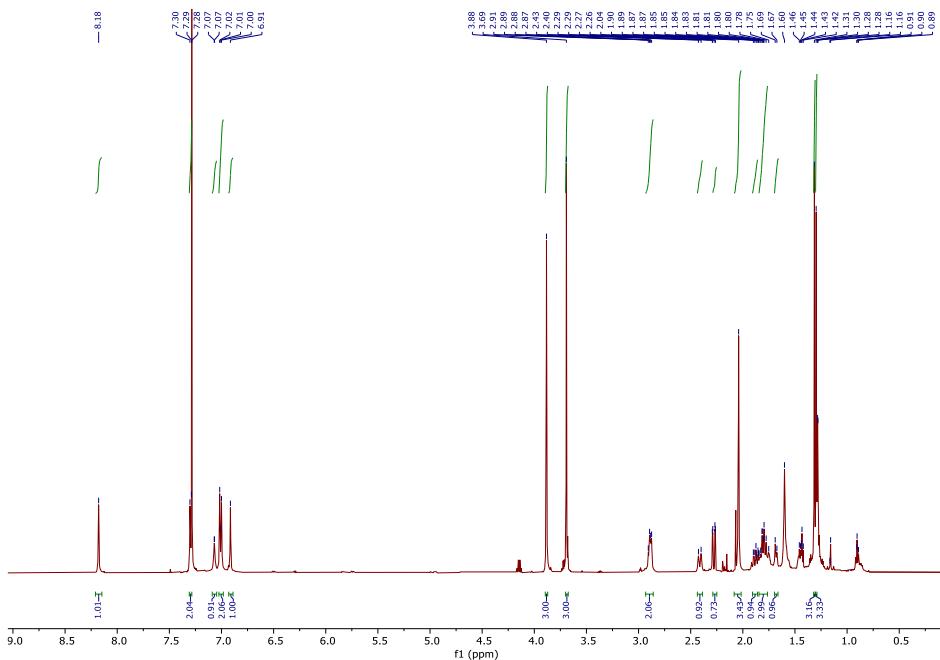
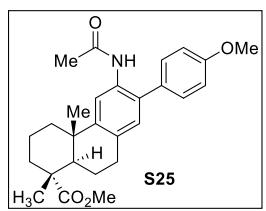
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AB-NKR-01249 (0.053) is (1.00,1.00) C27H31F3NO3

IISER - KOLKATA

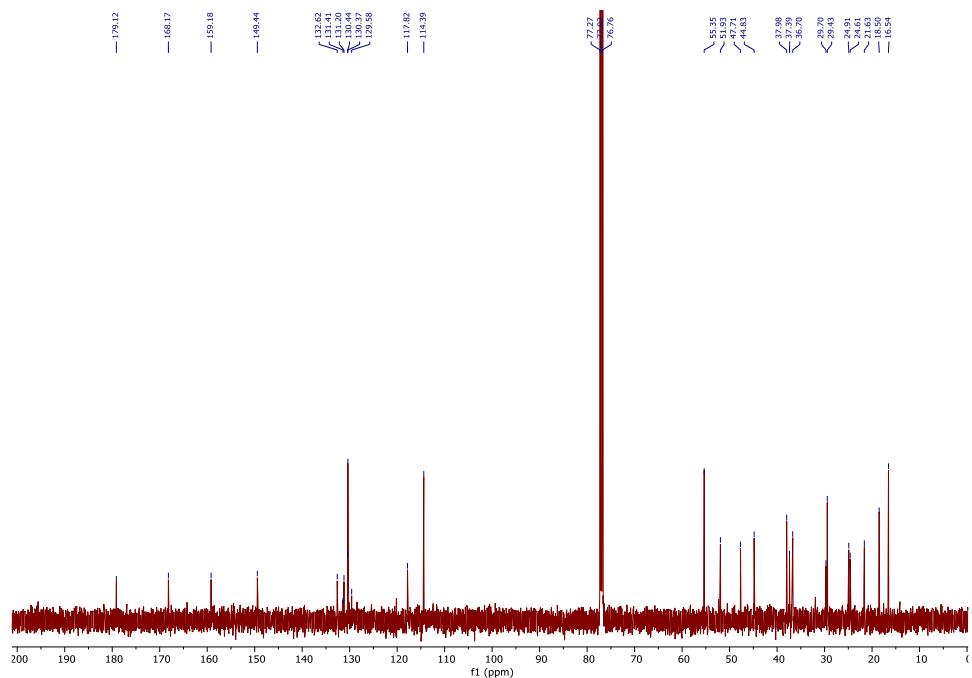
1: TOF MS ES+
7.37e12



Mass spectrum of compound **S24**



¹H NMR (400 MHz, CDCl₃) of compound S25

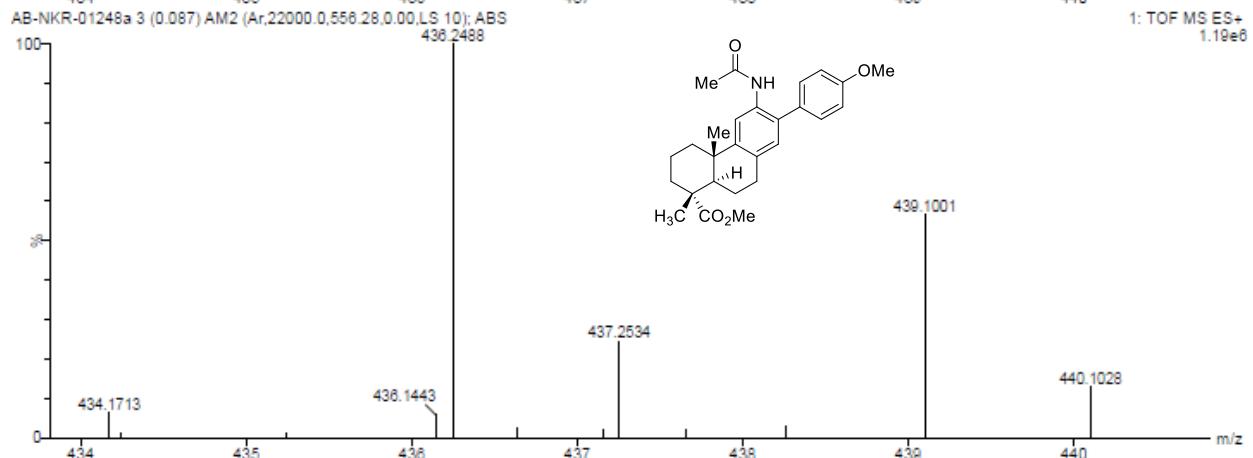
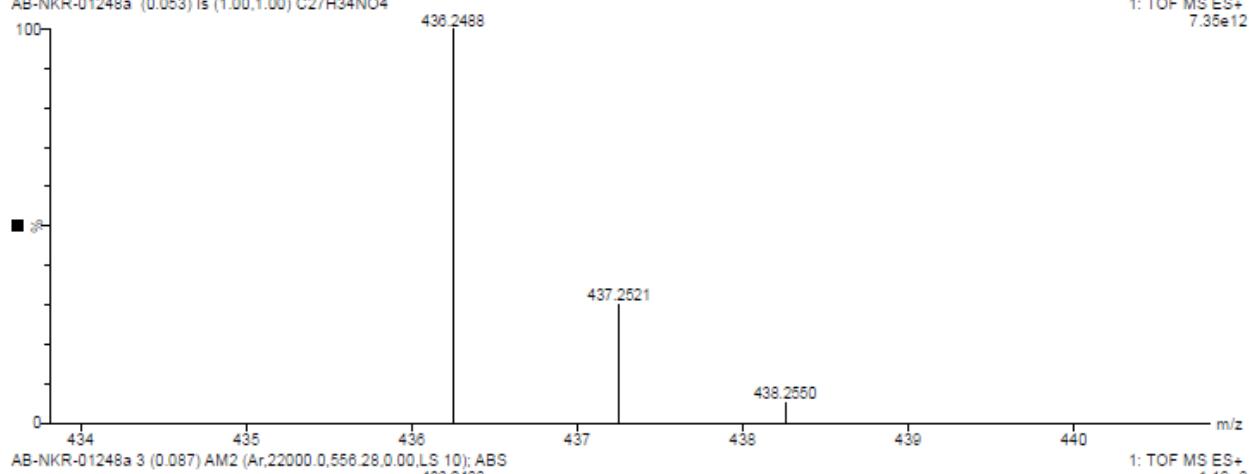


¹³C{¹H} NMR (125 MHz, CDCl₃) of compound S25

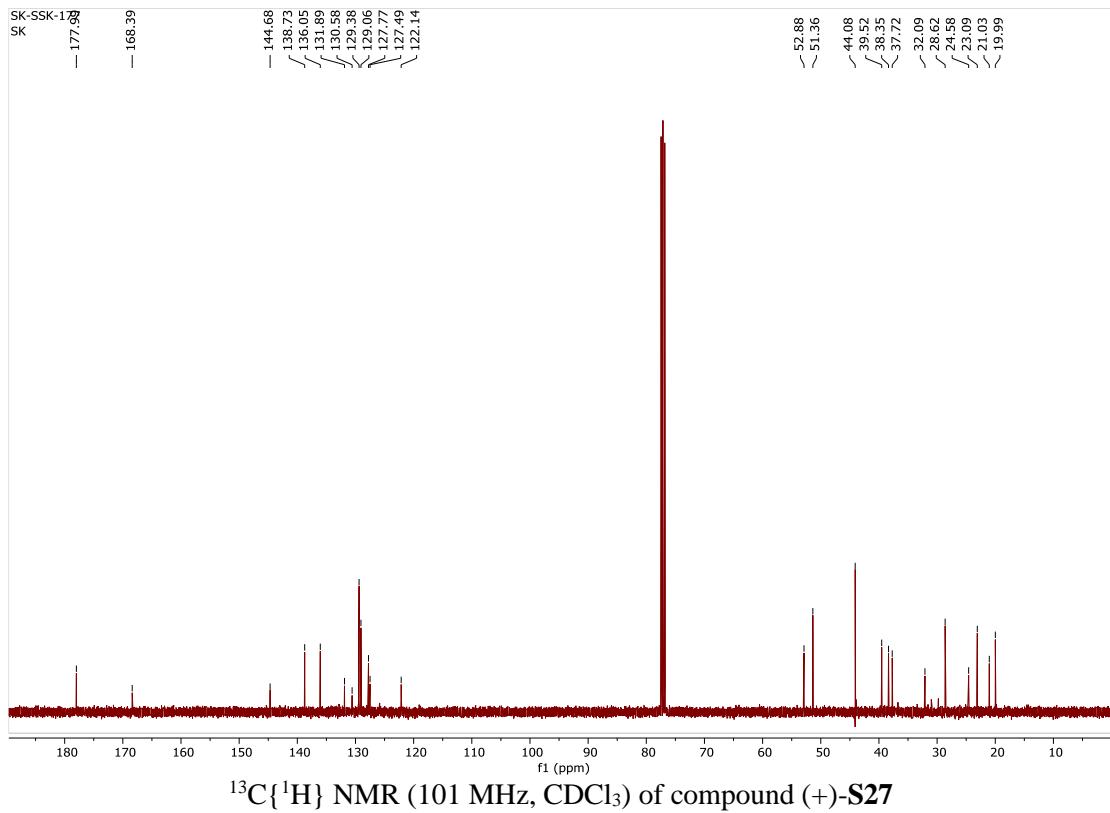
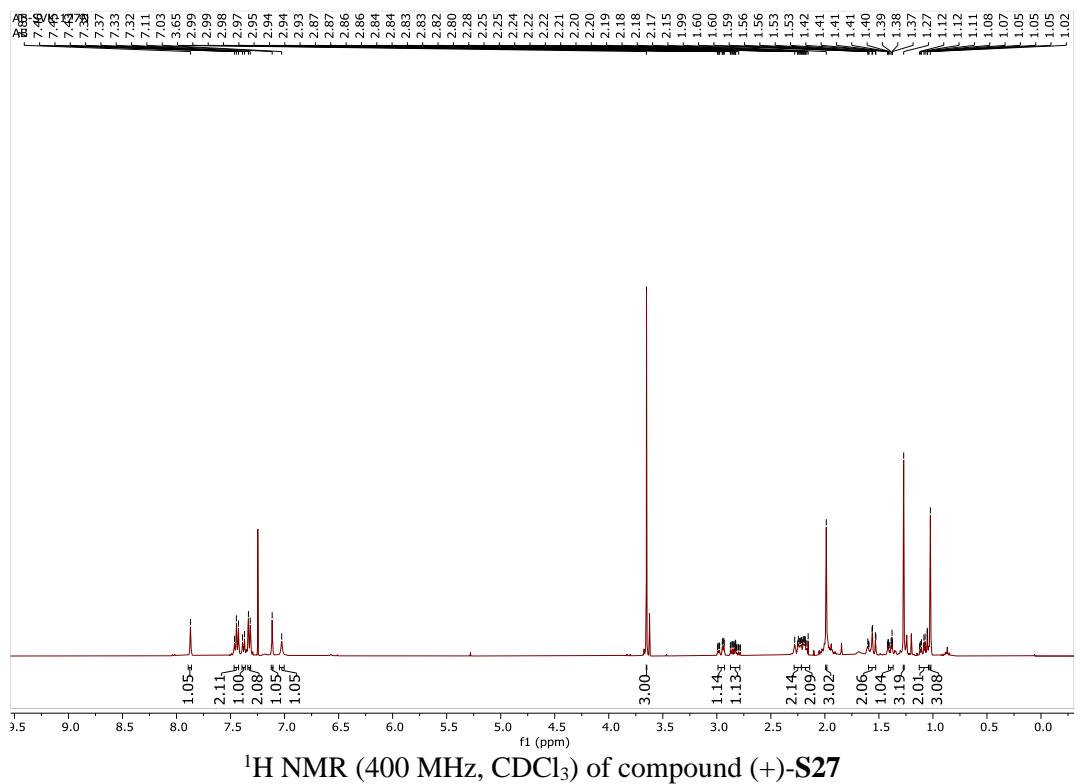
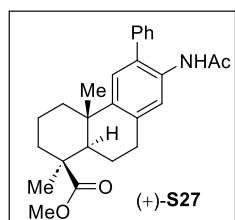
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IISER - KOLKATA

1: TOF MS ES+
7.36e12



Mass spectrum of compound S25



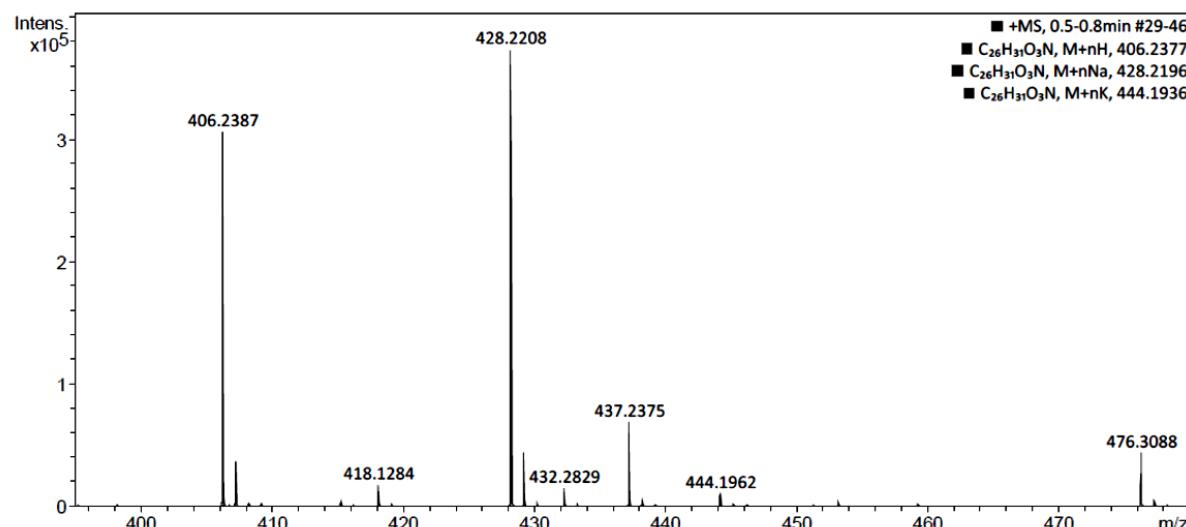
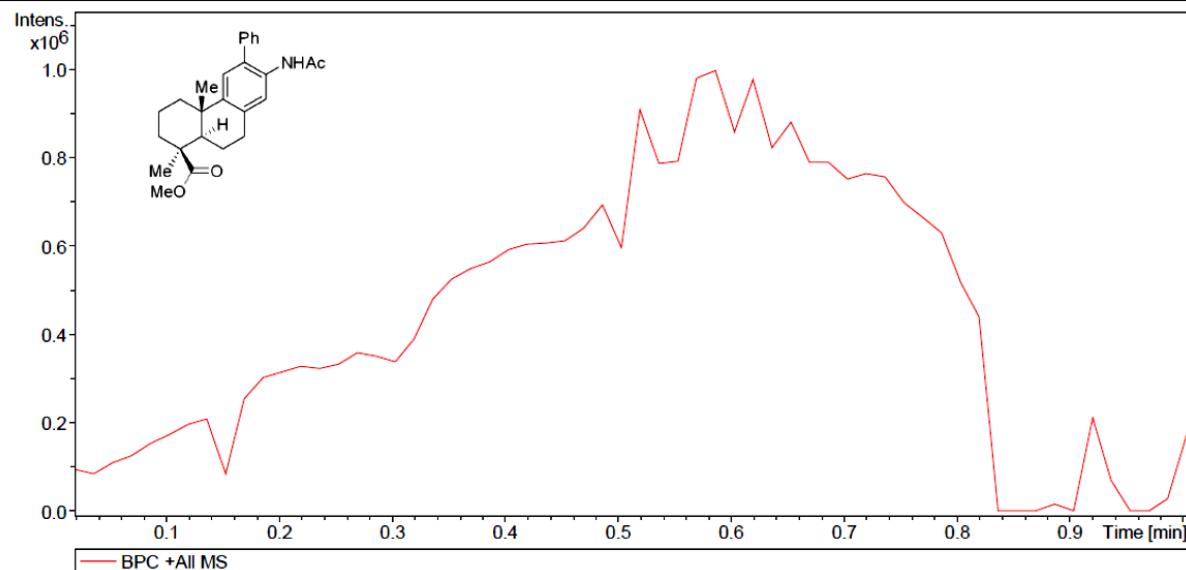
Display Report

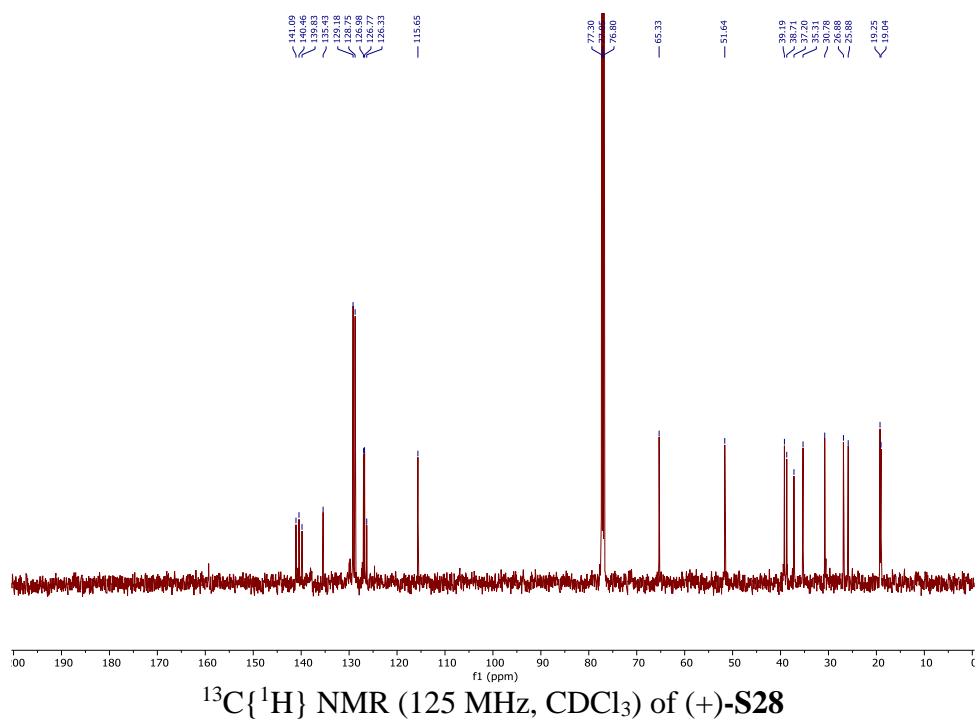
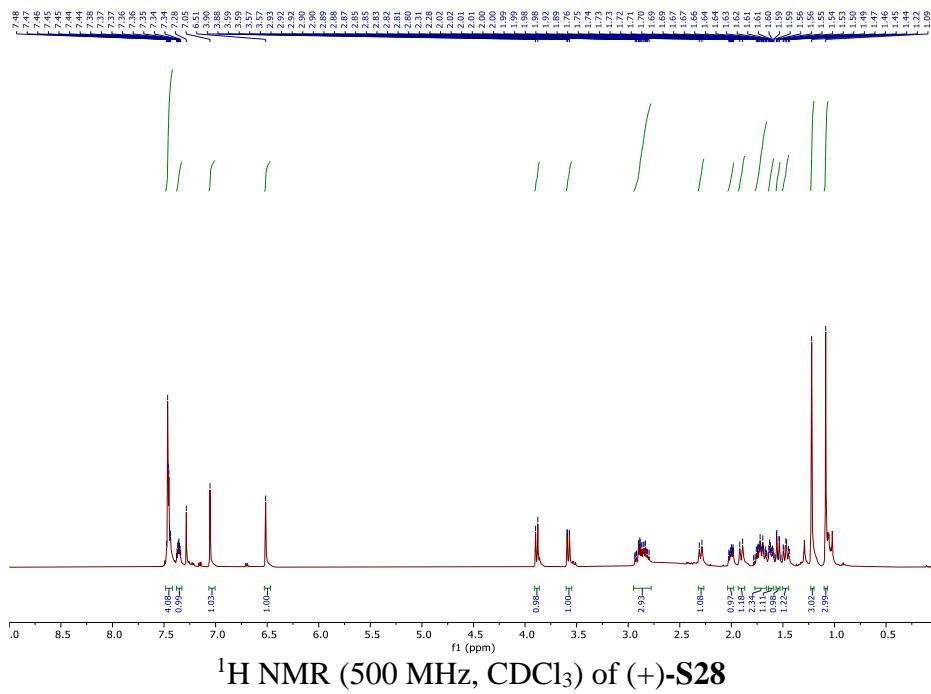
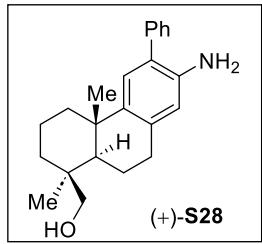
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 Method Tune_pos_Standard.m Operator IISER Kolkata
 Sample Name ab_mm_01_322 Instrument maXis impact 8282001.00127
 Comment signal dropping issue

Acquisition Parameter

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Display Report

Analysis Info

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Sample Name Prof.A.Bisai-AB-MM-02323
Comment

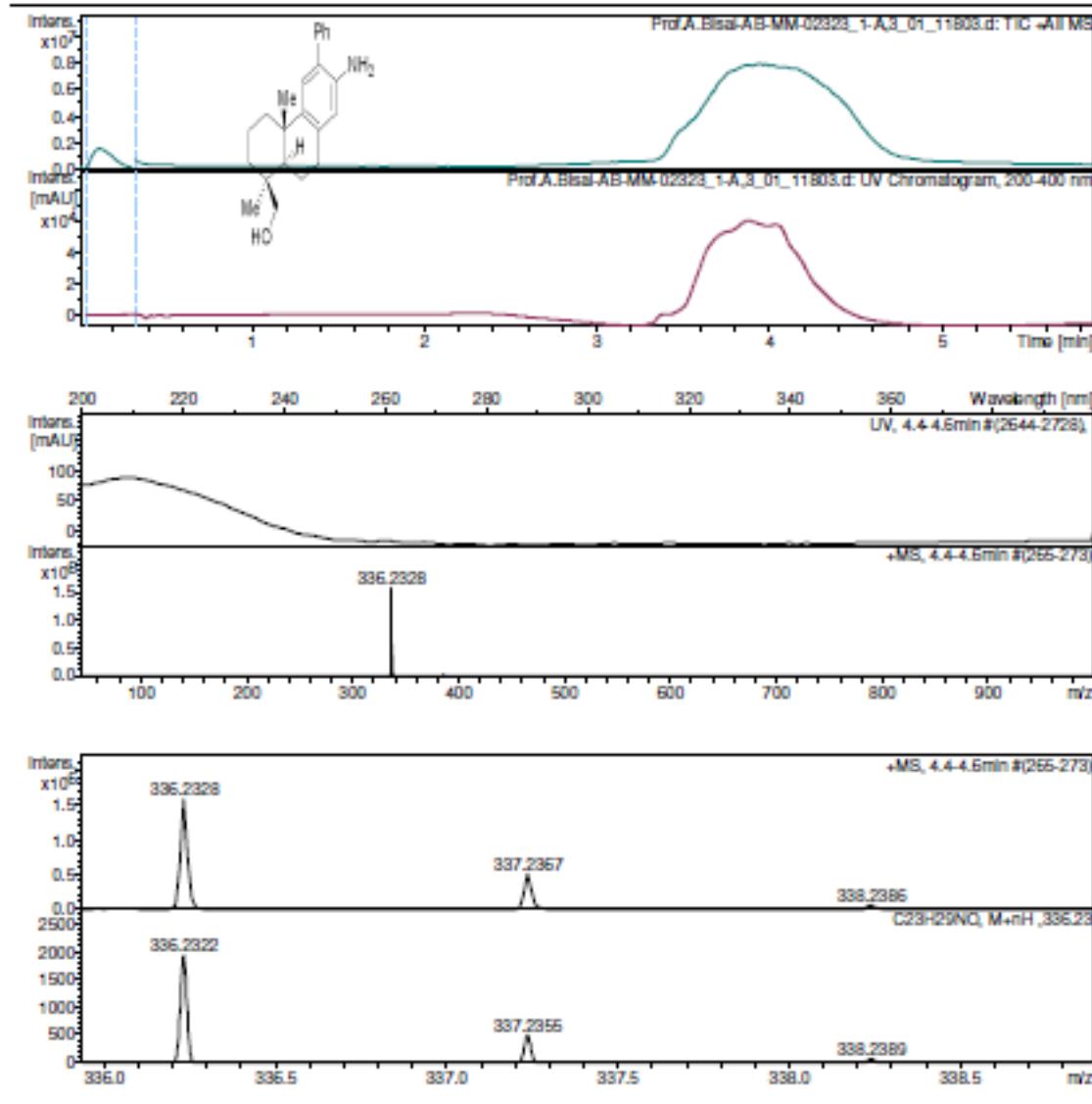
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Operator RUCHI

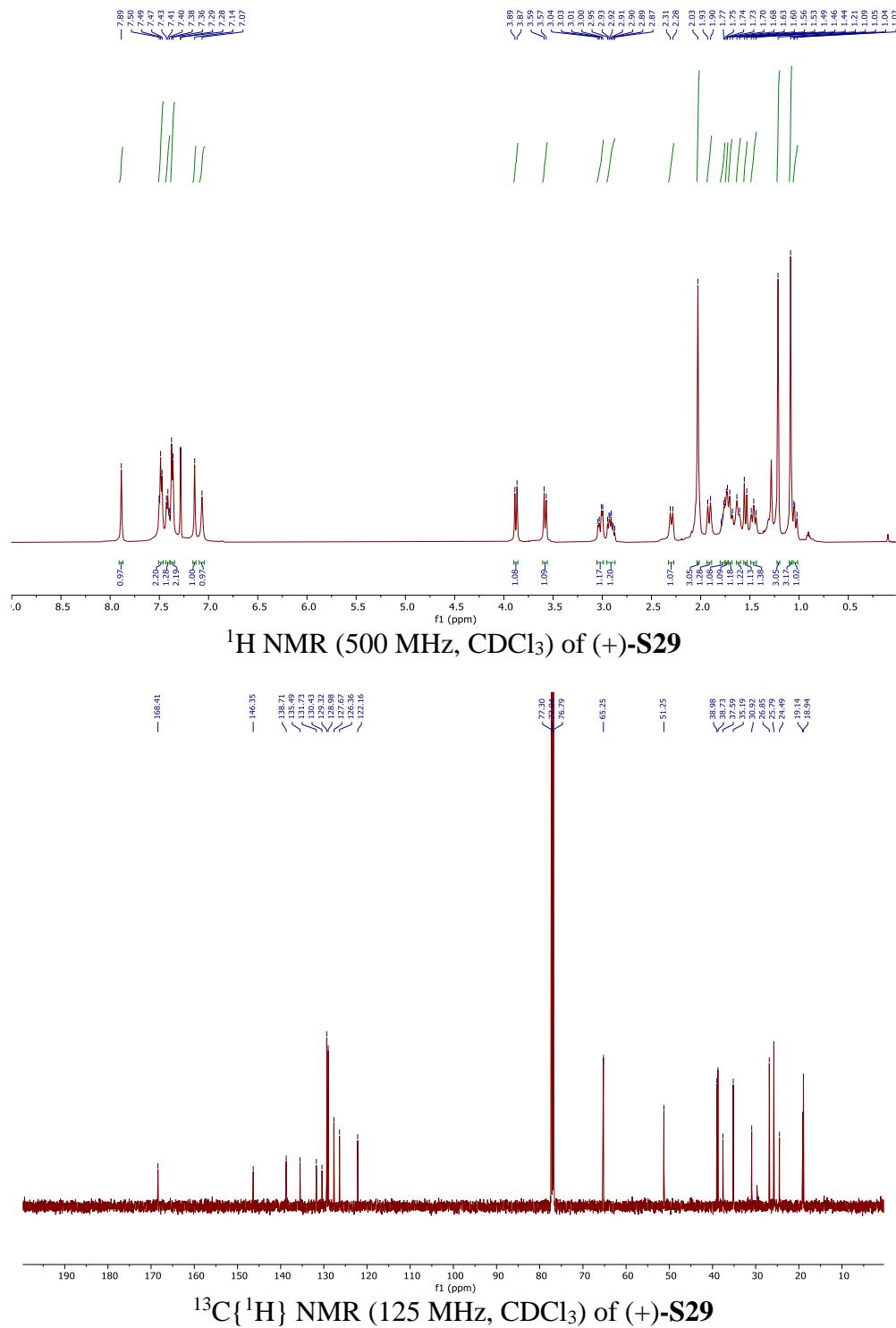
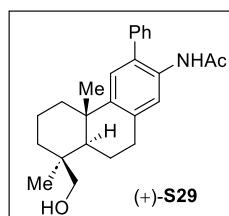
Instrument micrOTOF-Q II 10330

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HRMS data of (+)-S28



Display Report

Analysis Info

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 Sample Name Prof.A.Bisai-ABMM02327
 Comment

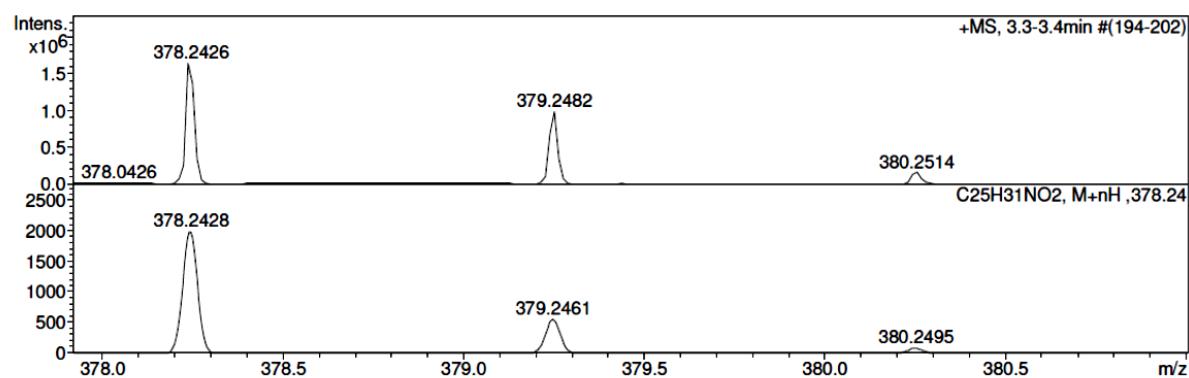
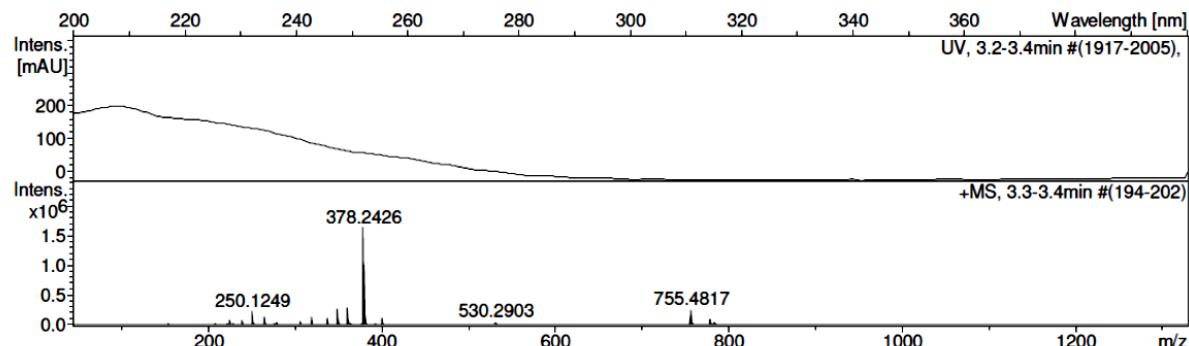
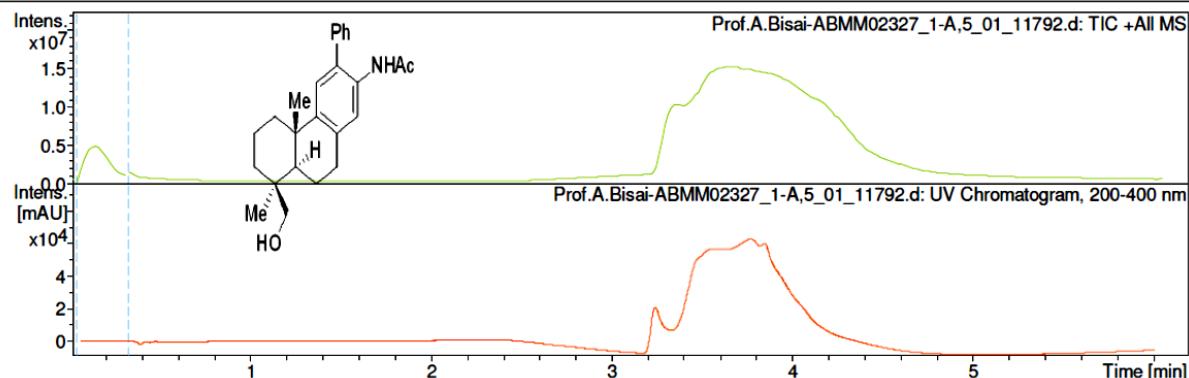
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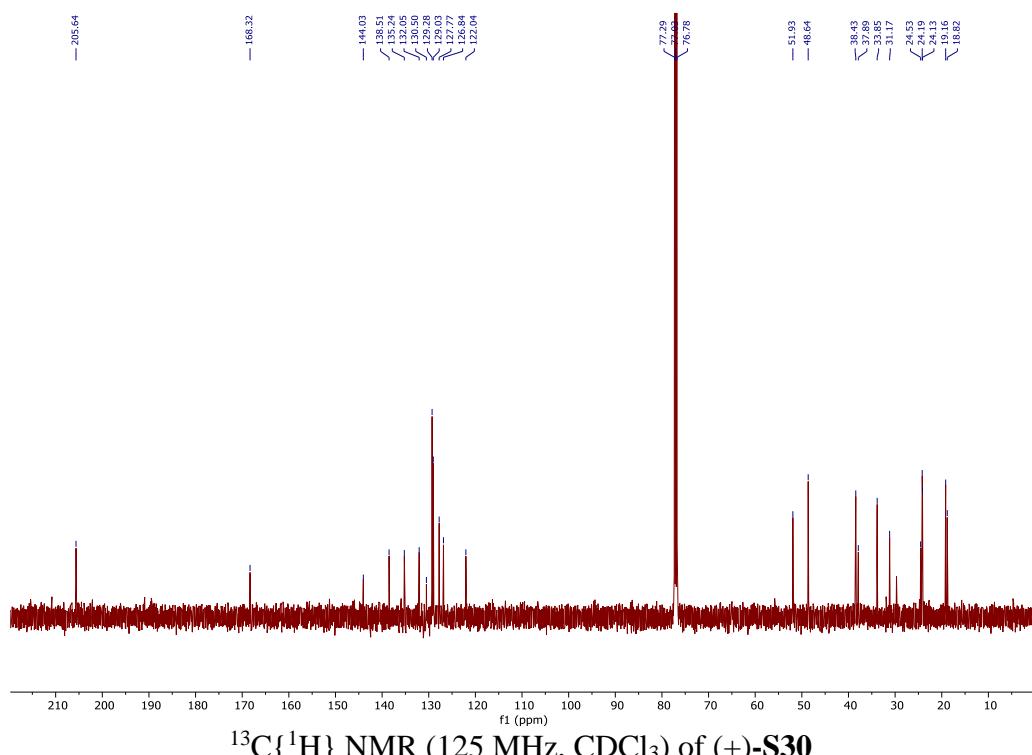
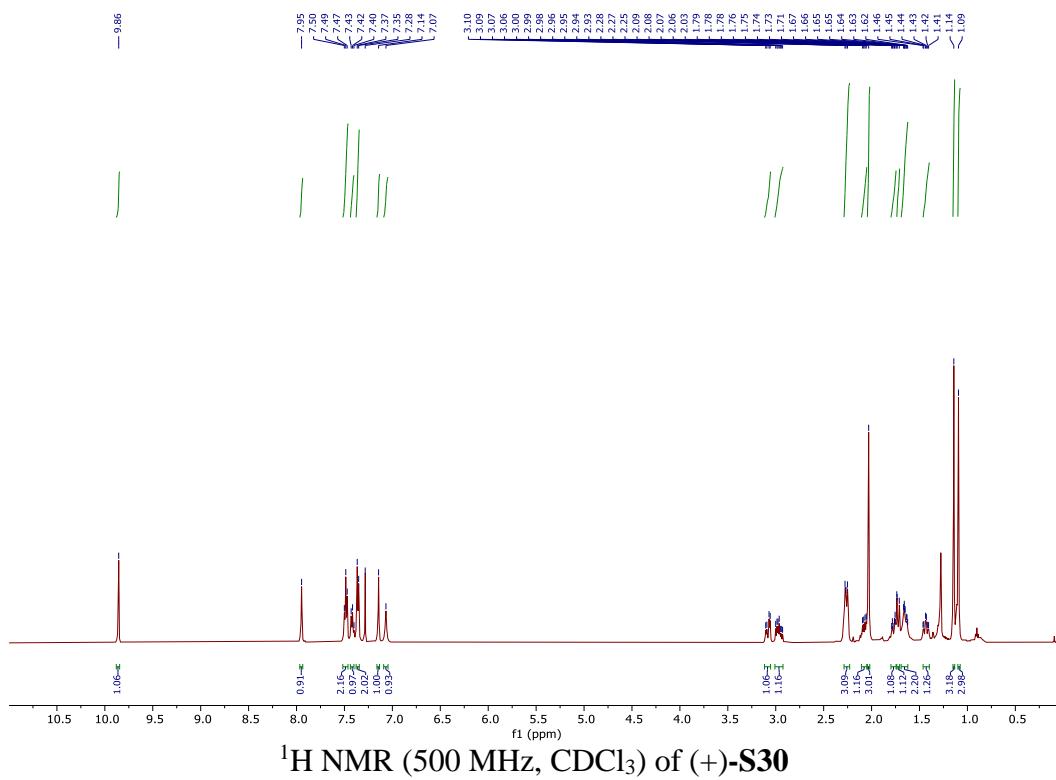
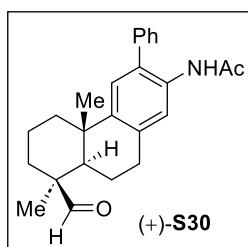
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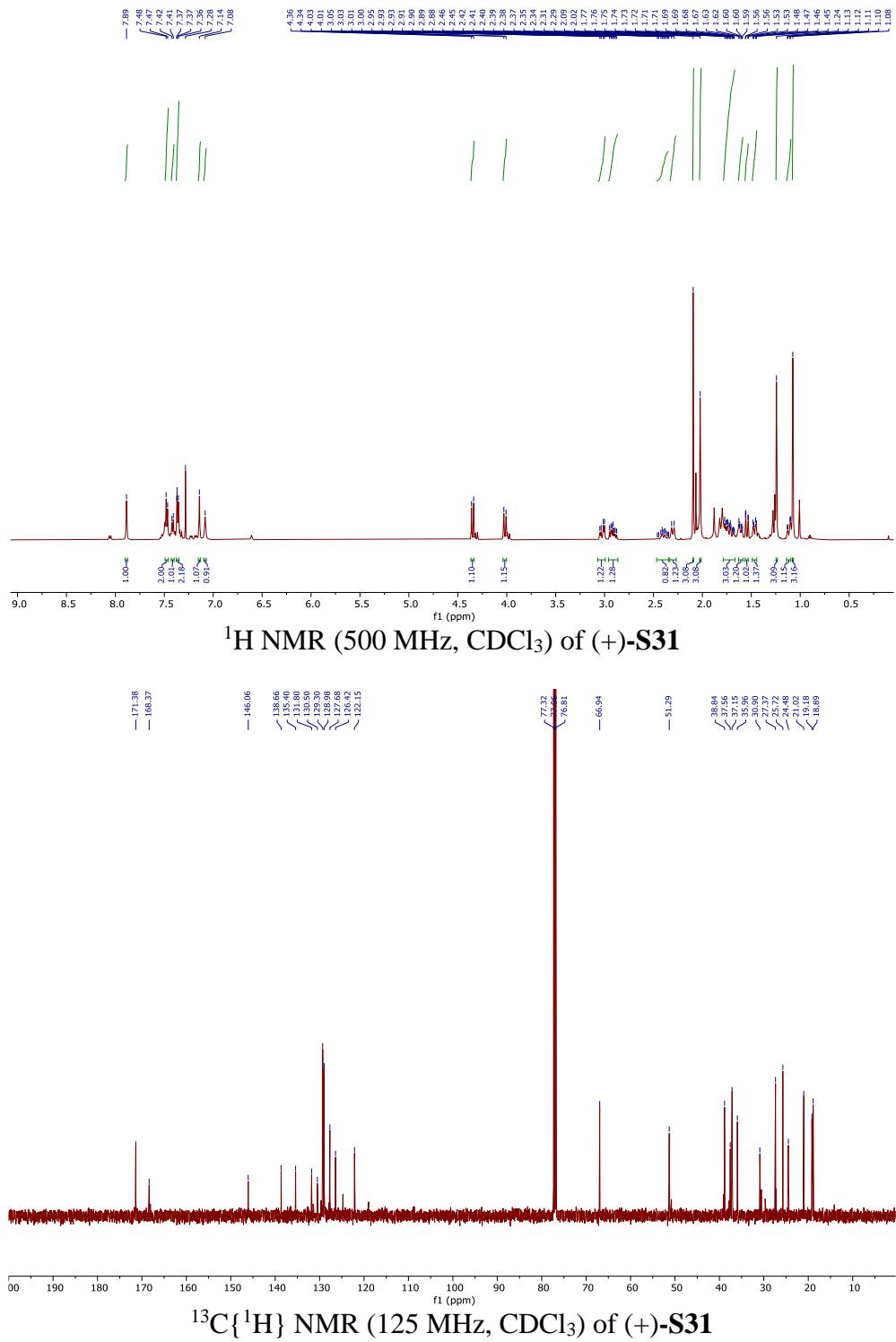
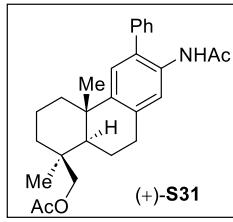
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Acquisition Parameter

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Display Report

Analysis Info

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 Method hrcms-20 sept.m
 Sample Name Prof.A.Bisai-ABMM02325
 Comment

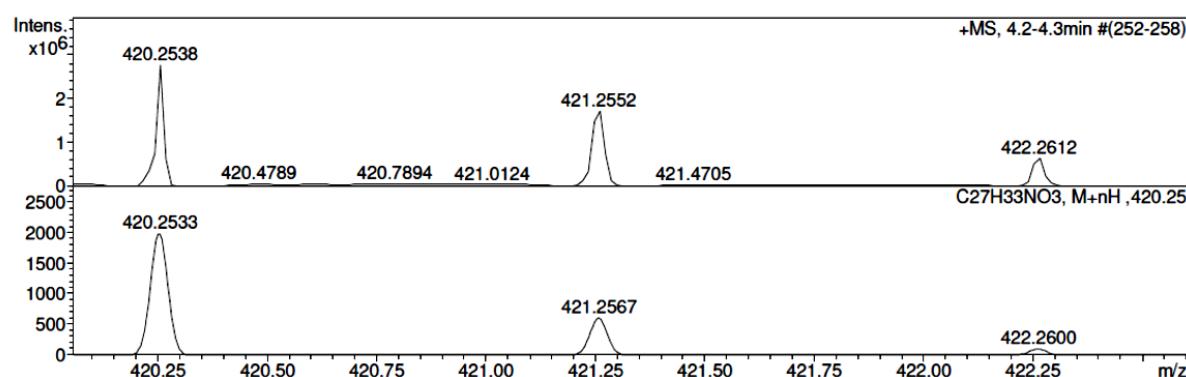
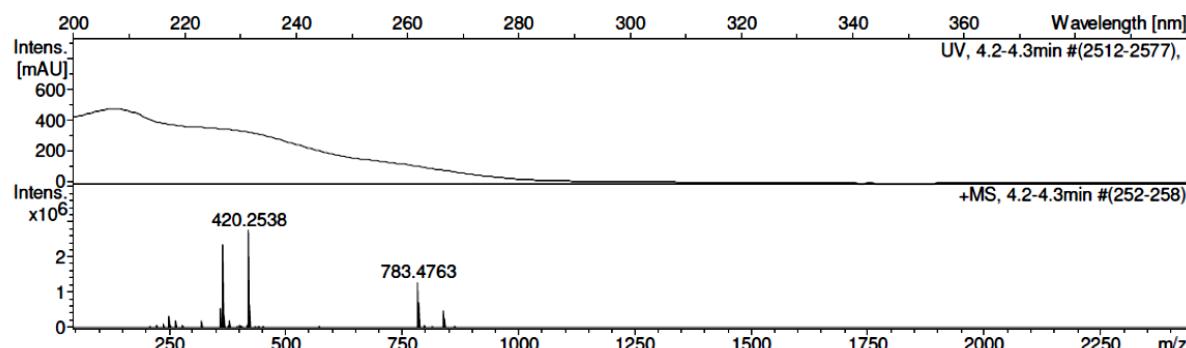
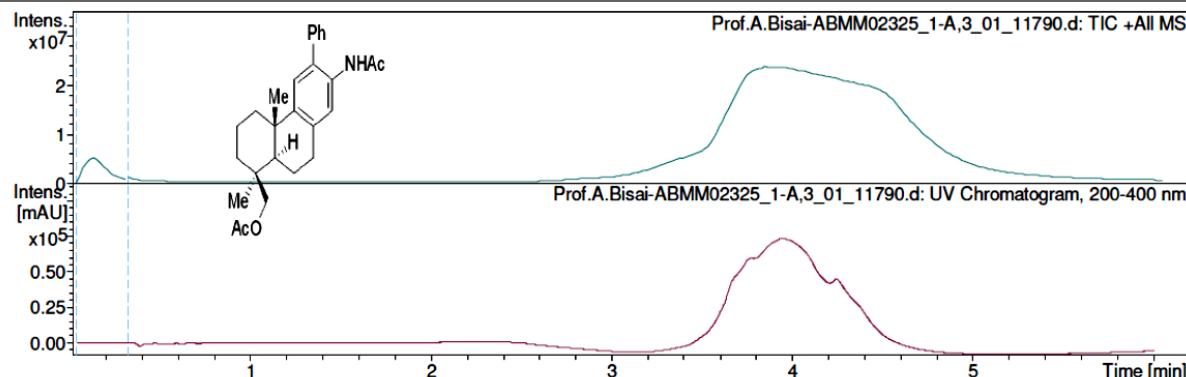
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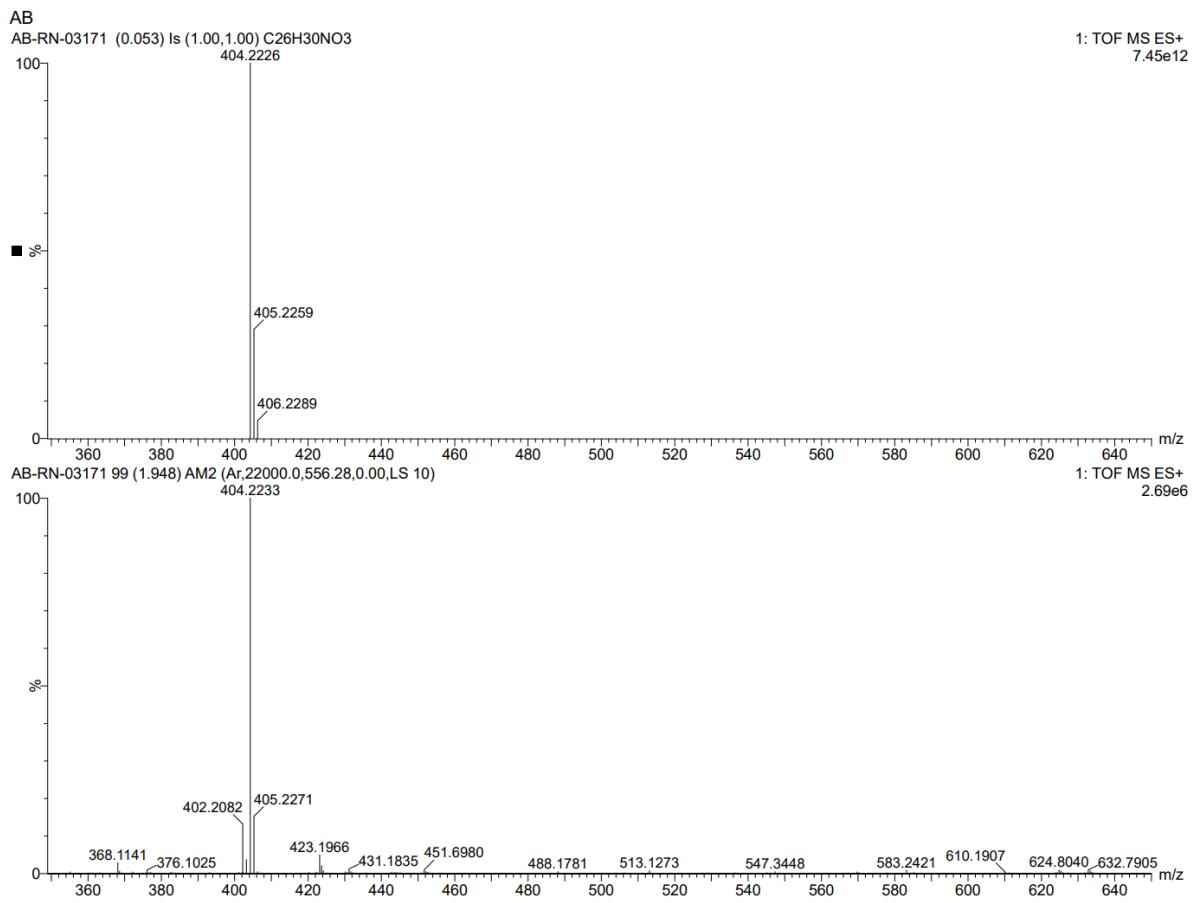
Operator RUCHI

Instrument micrOTOF-Q II 10330

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HRMS data of (+)-9a

Display Report

Analysis Info

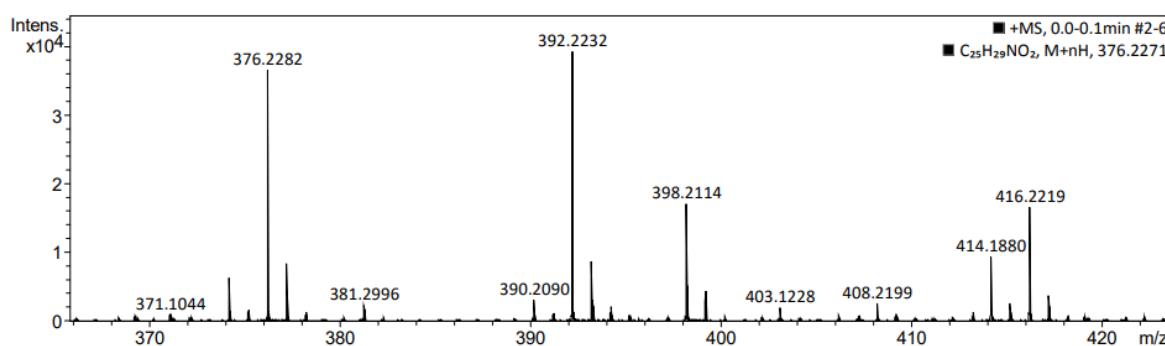
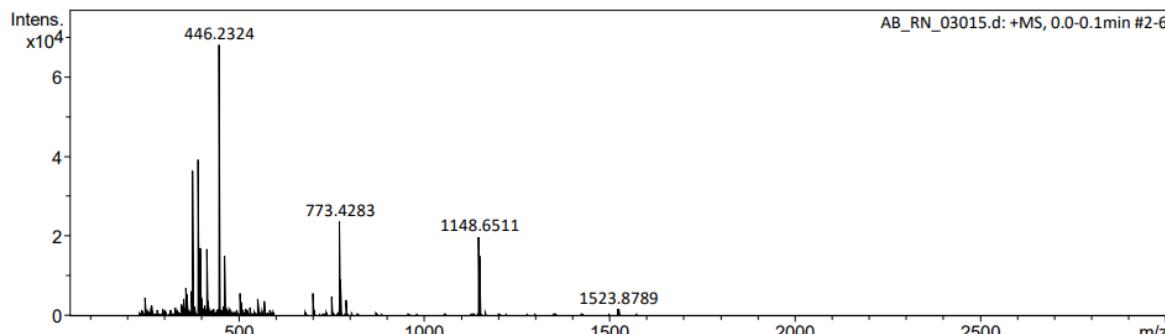
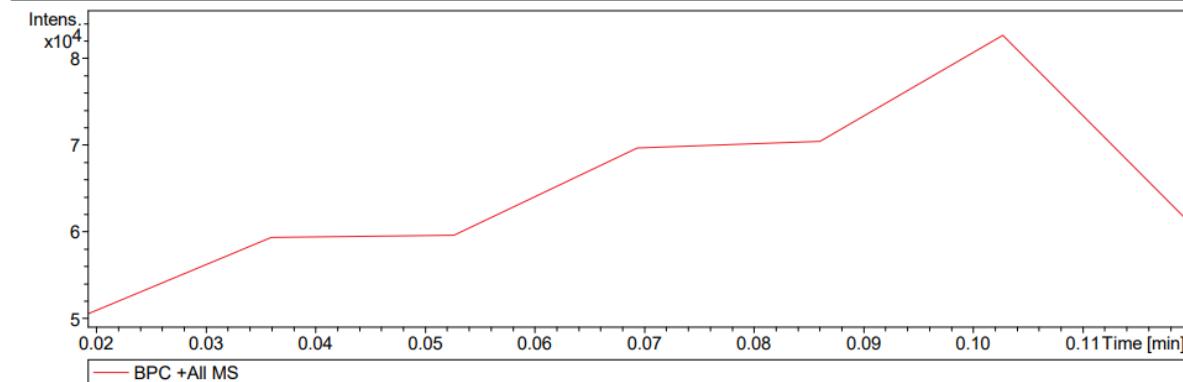
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Method Tune_pos_Mid.m
Sample Name AB_RN_03015
Comment signal dropping issue

Acquisition Date 3/17/2022 7:56:10 PM

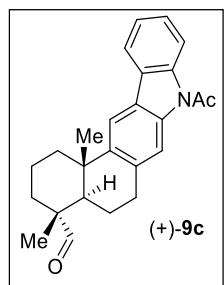
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

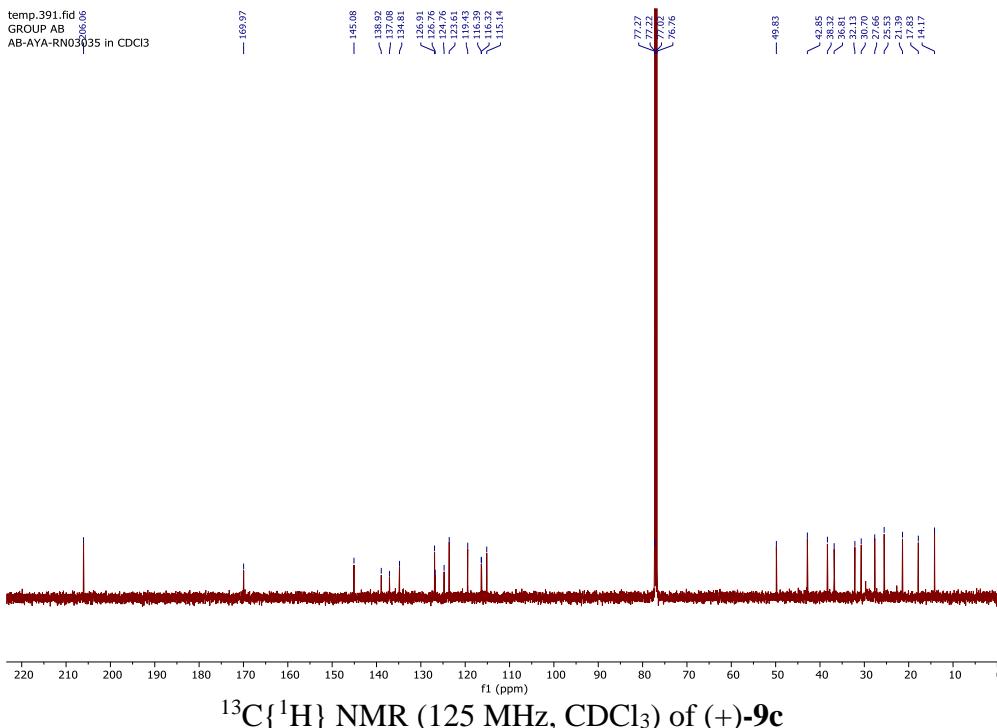
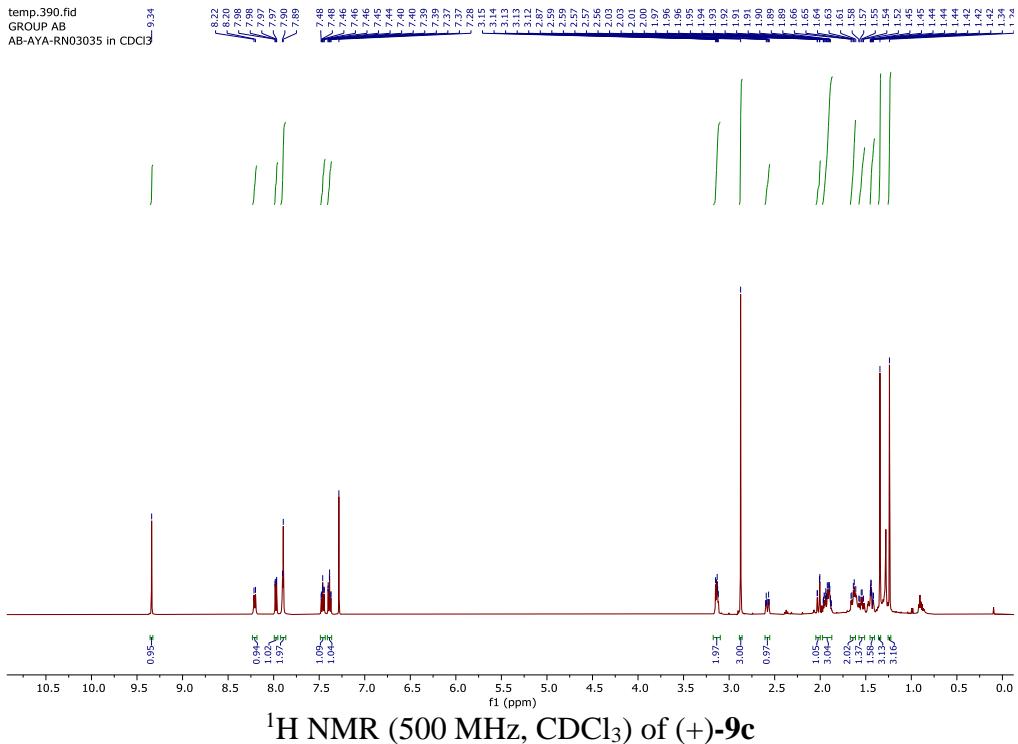
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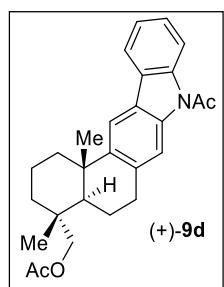


HRMS data of (+)-9b

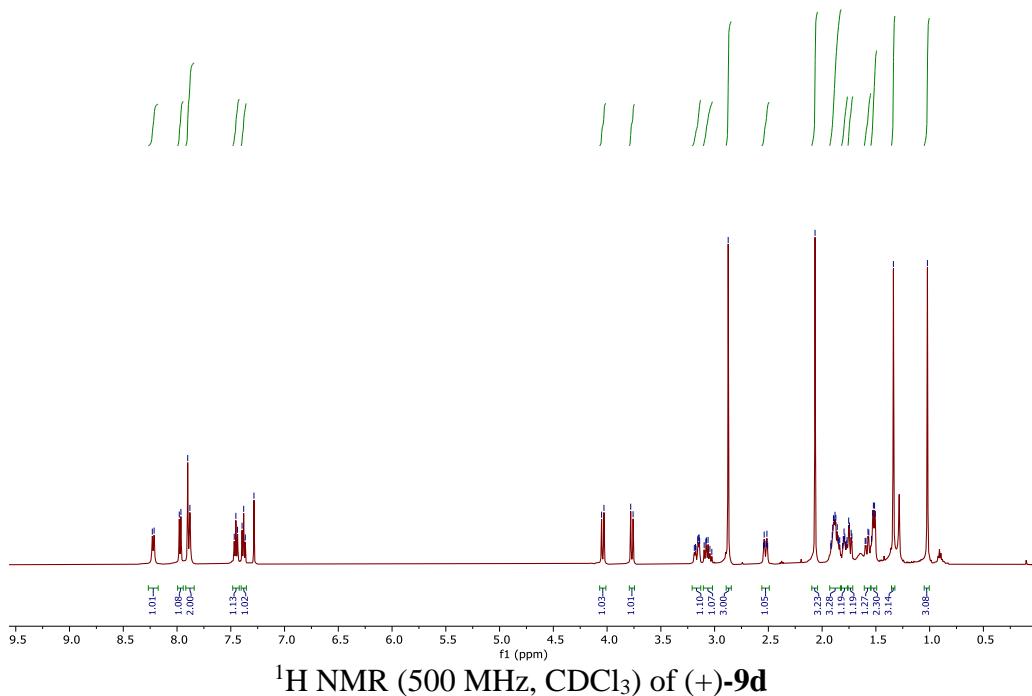


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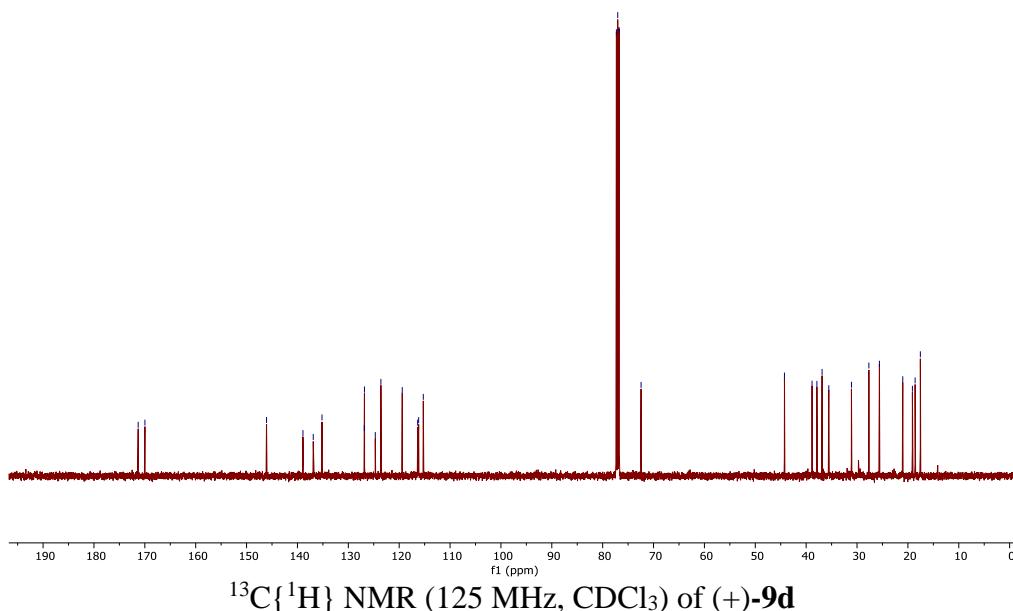




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AB-AYA-RN03018 in CDCl₃



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GROUP AB
AB-AYA-RN03018 in CDCl₃

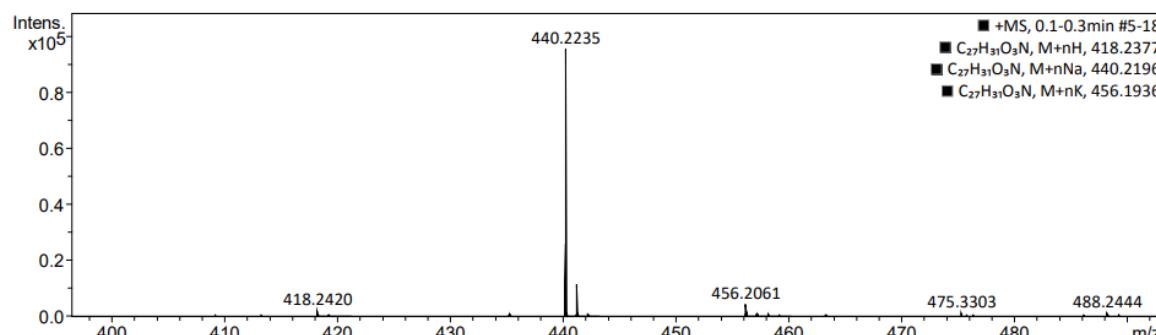
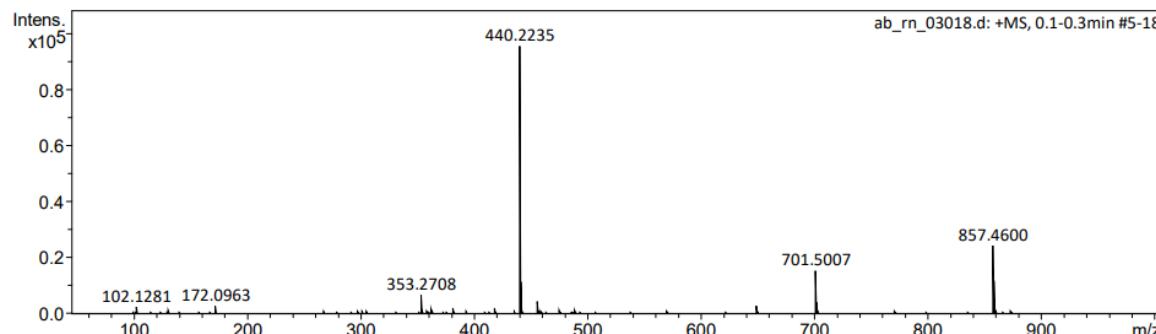
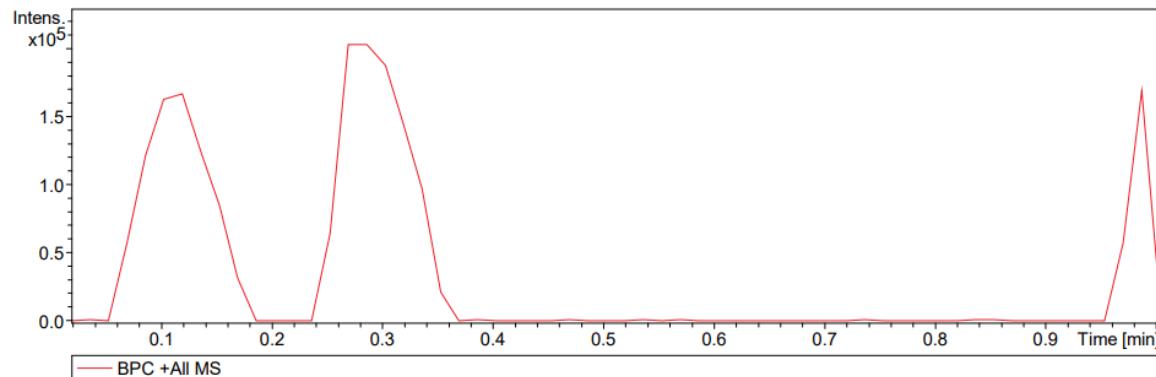


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Sample Name	ab_mn_03018	Instrument	maXis impact 8282001.00127
Comment	signal dropping issue		

Acquisition Parameter

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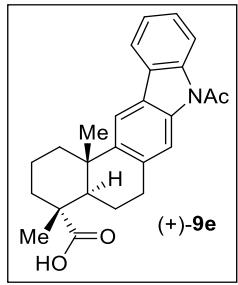
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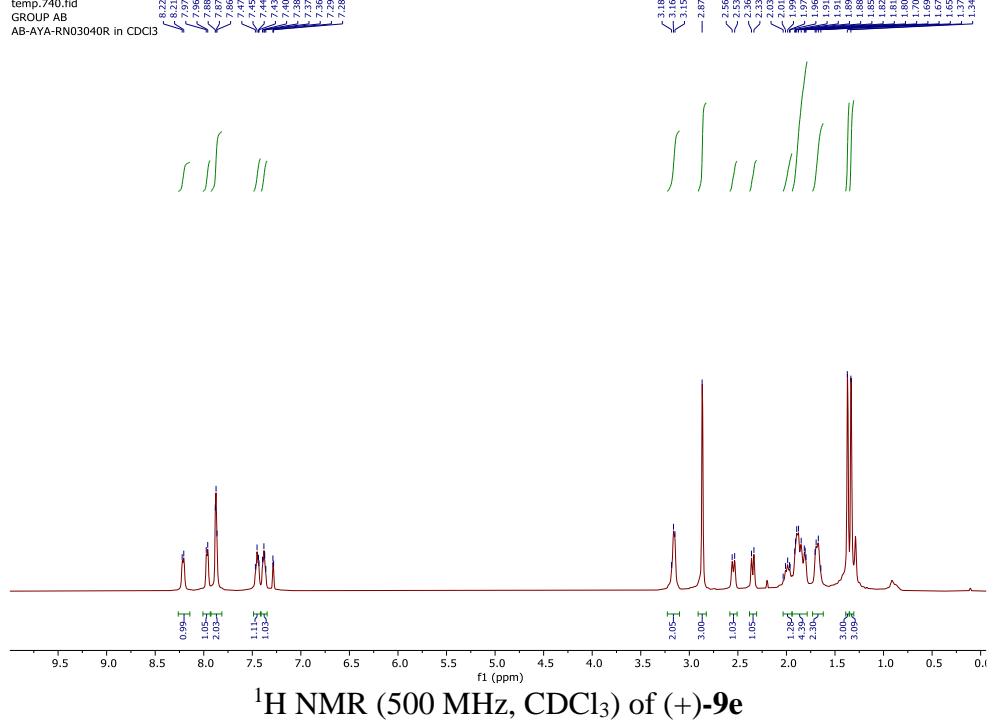
by: IISER Kolkata

Page 1 of 1

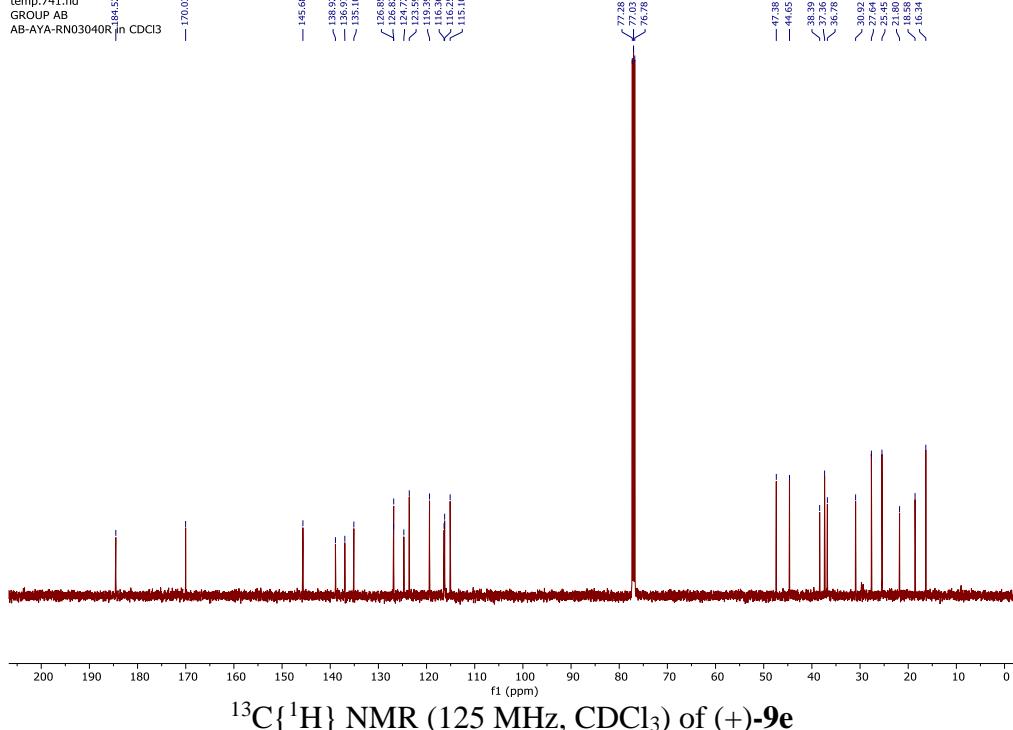
HRMS data of (+)-9d



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AB-AYA-RN03040R in CDCl₃



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GROUP AB
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Display Report

Analysis Info

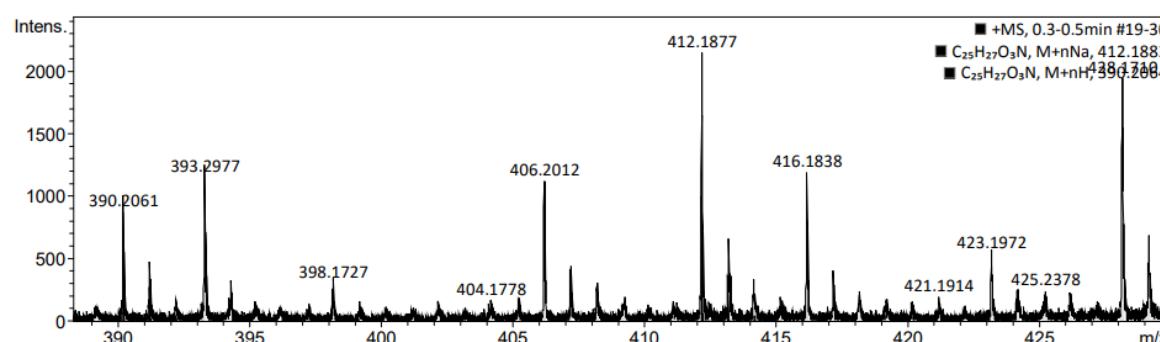
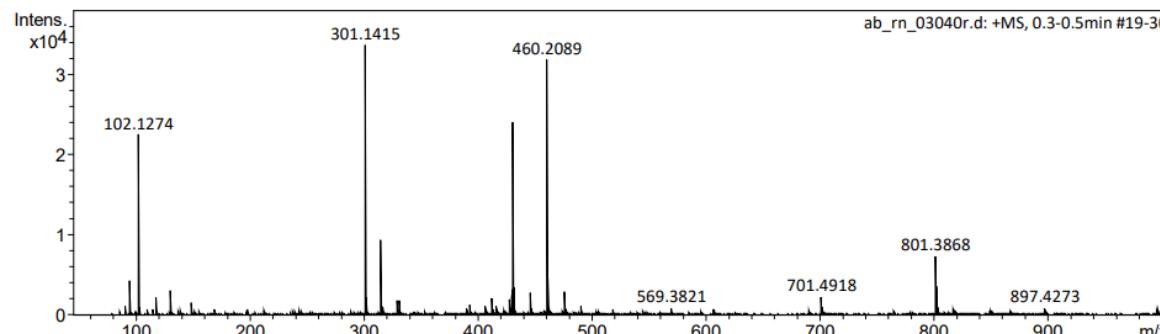
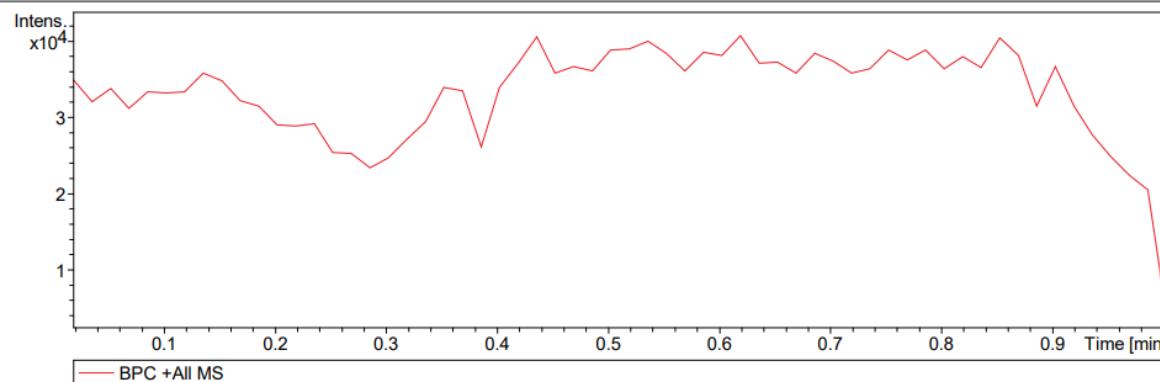
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Sample Name AB_RN_03040r
Comment

Acquisition Date 4/18/2022 12:59:53 PM

Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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ab_rn_03040r.d

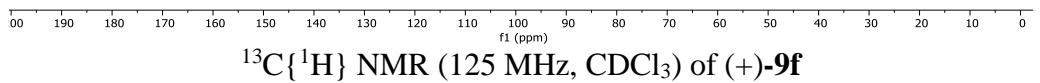
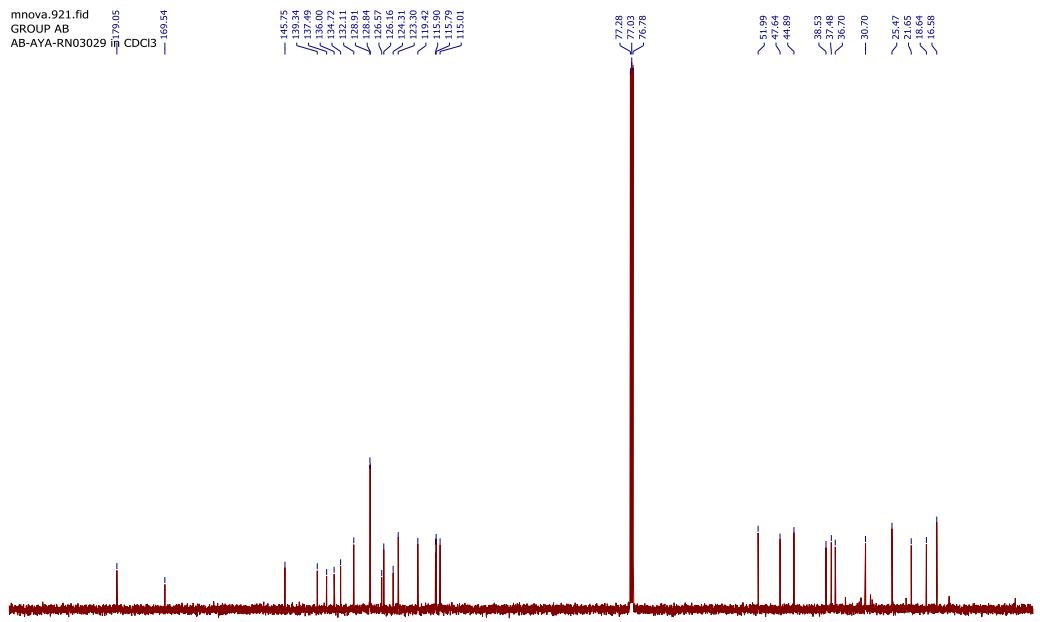
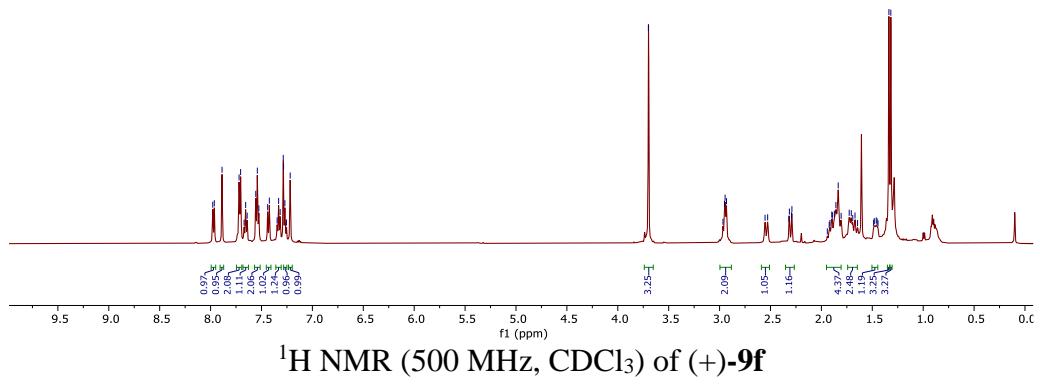
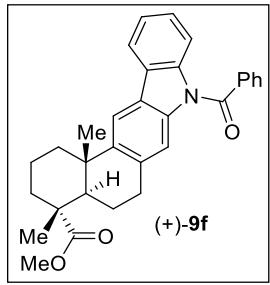
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by: IISER Kolkata

Page 1 of 1

HRMS data of (+)-9e



Display Report

Analysis Info

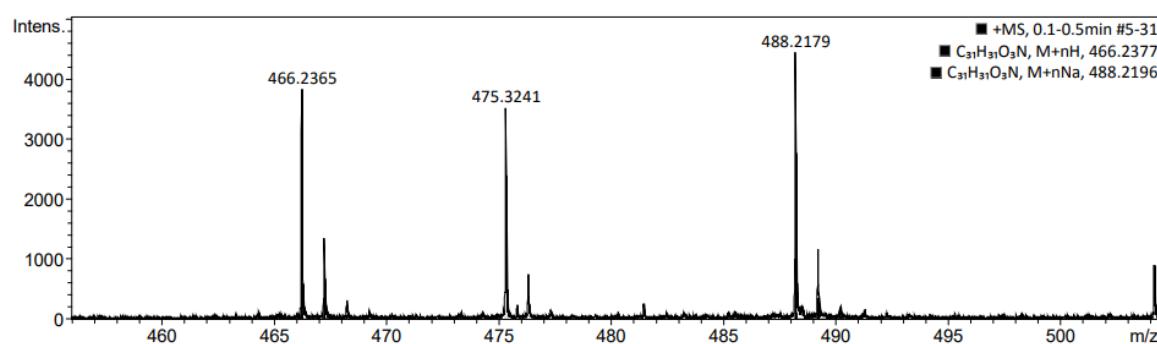
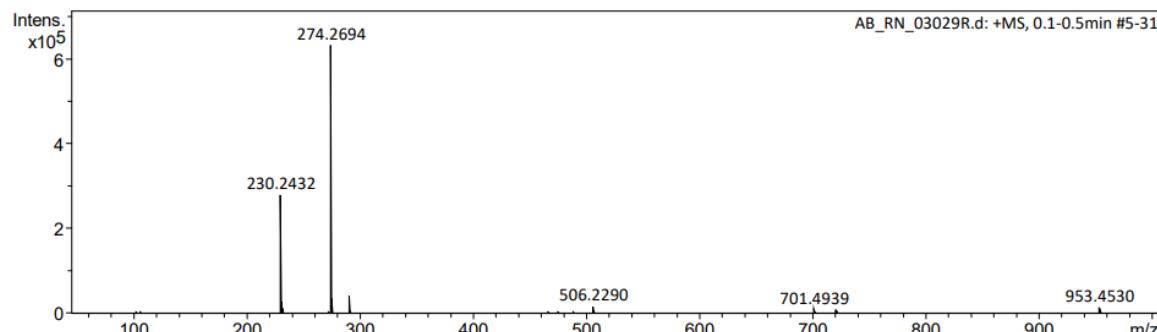
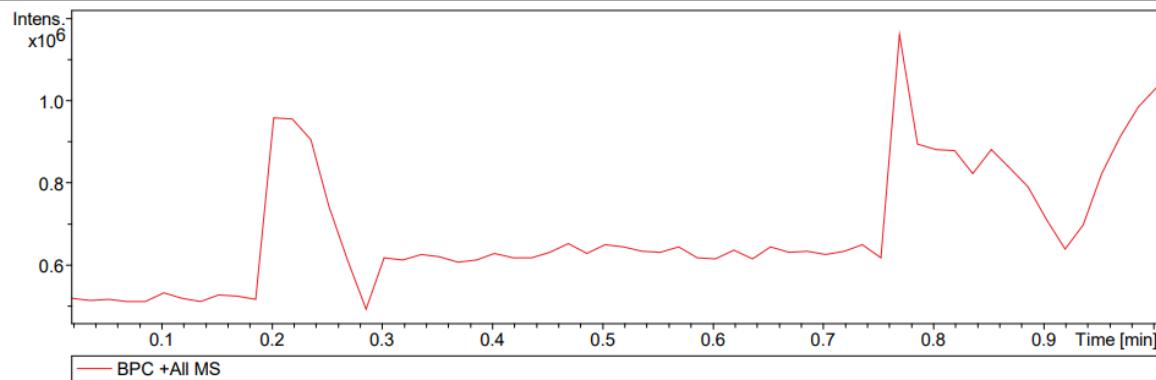
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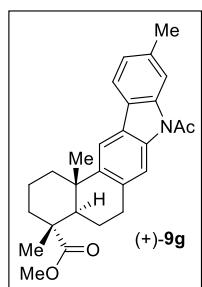
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

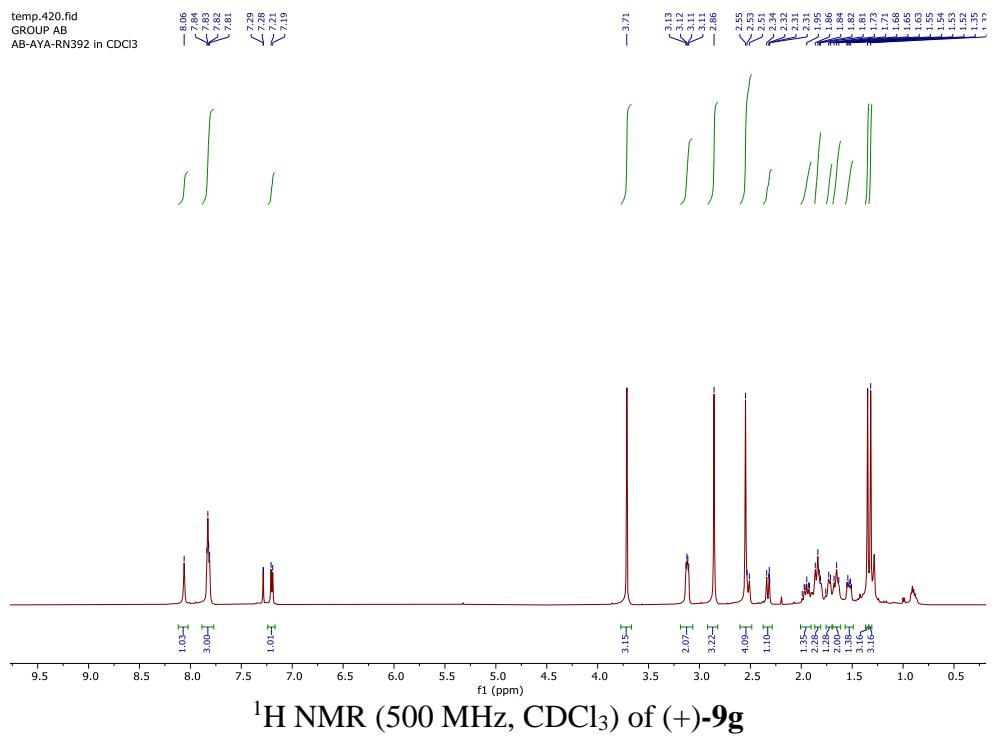
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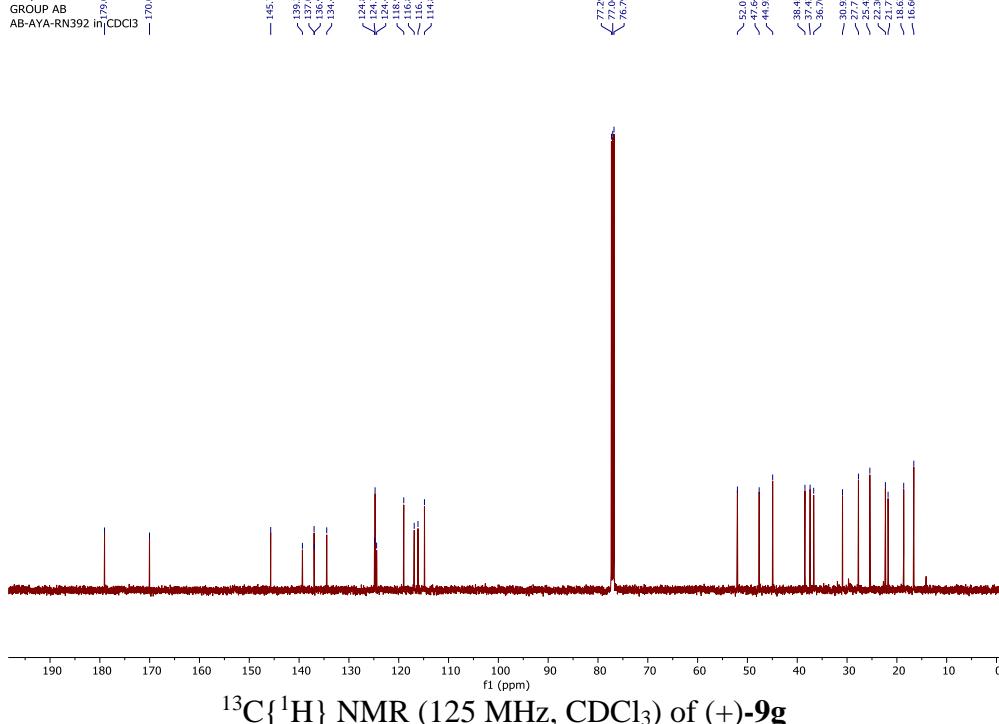
HRMS data of (+)-9f



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GROUP AB
AB-AYA-RN392 in CDCl₃



temp.421.fid
GROUP AB
AB-AYA-RN392 in CDCl₃



Display Report

Analysis Info

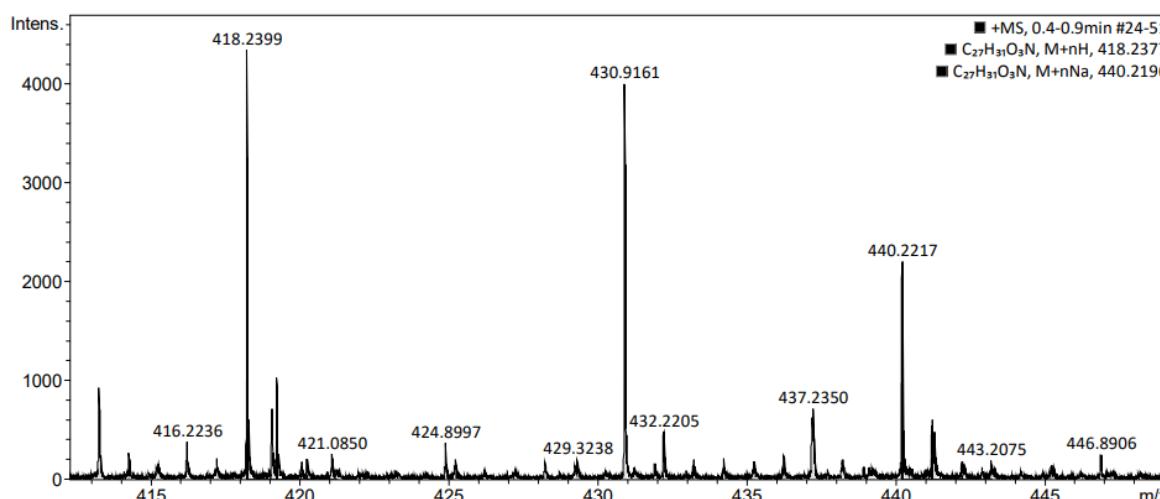
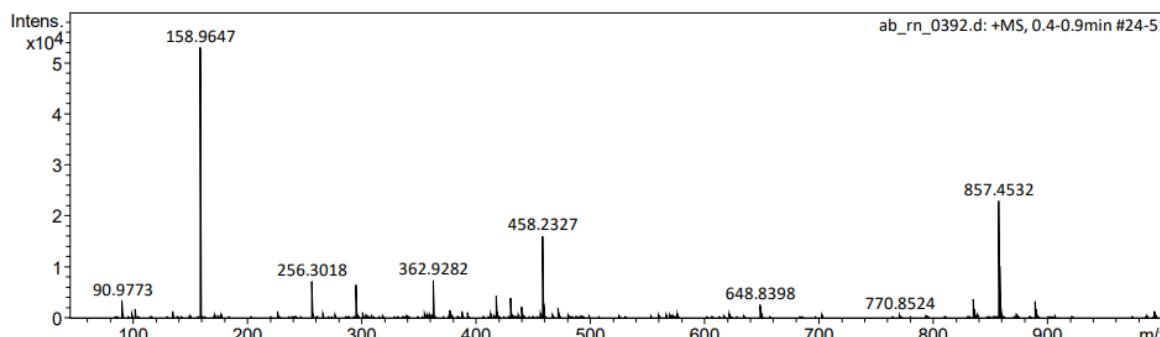
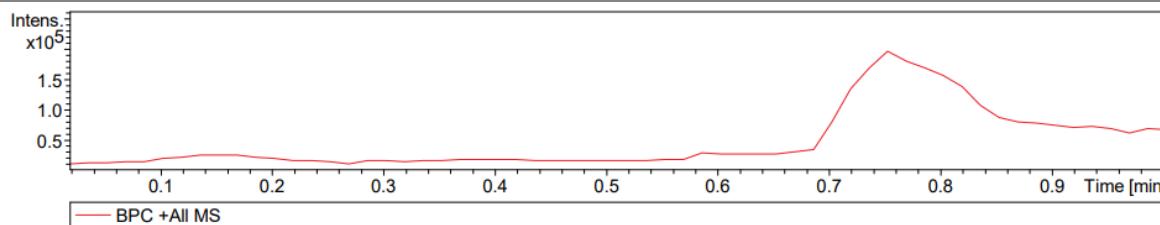
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Method Tune_pos_Standard.m
Sample Name ab_rn_0392
Comment signal dropping issue

Acquisition Date 3/16/2022 11:30:47 AM

Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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ab_rn_0392.d

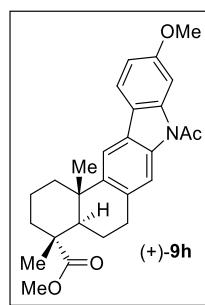
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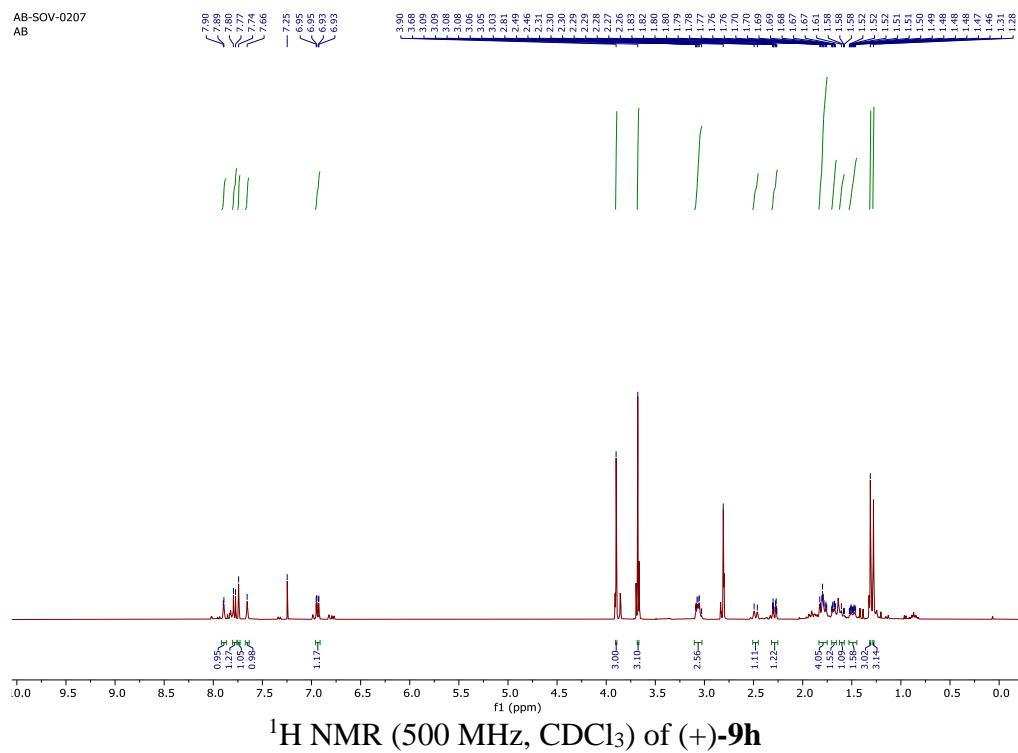
by: IISER Kolkata

Page 1 of 1

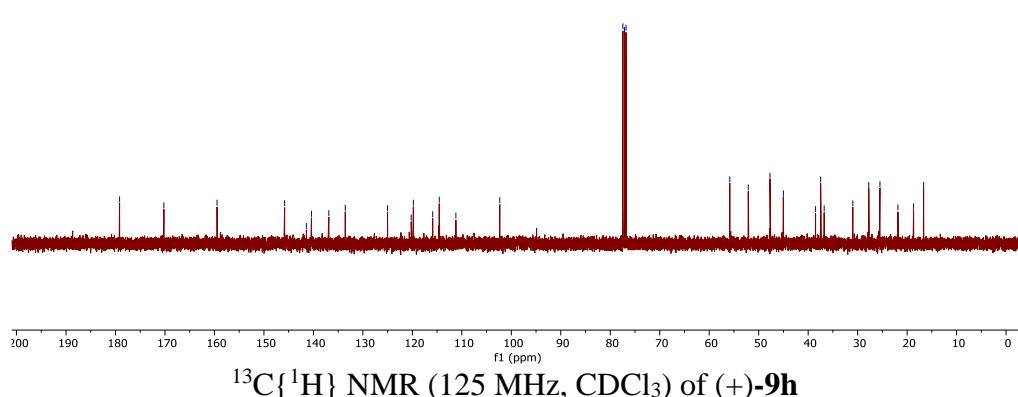
HRMS data of (+)-9g



AB-SOV-0207
AB



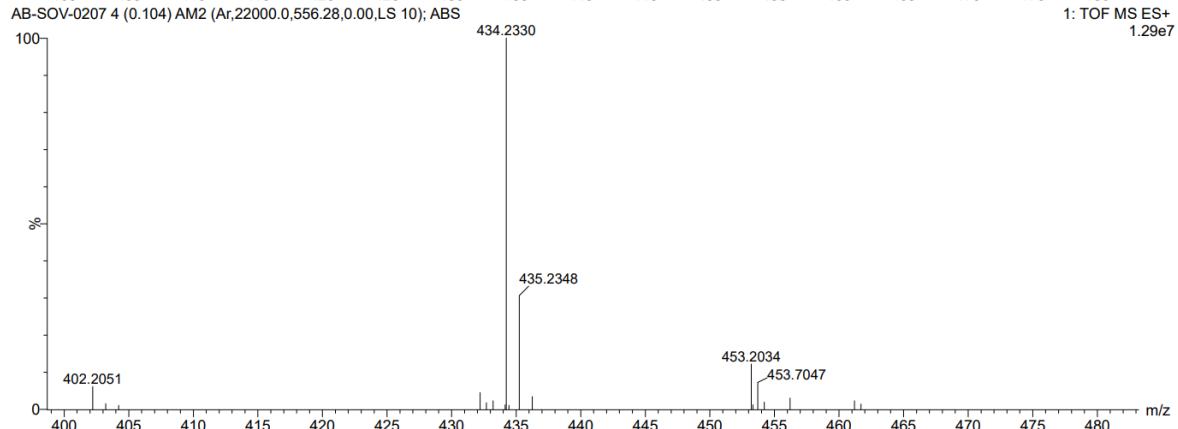
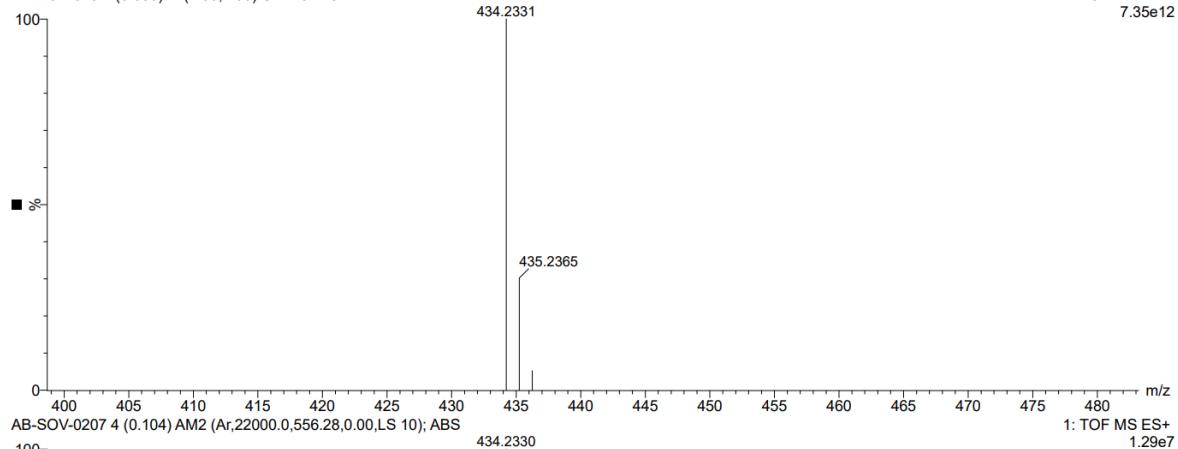
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AB



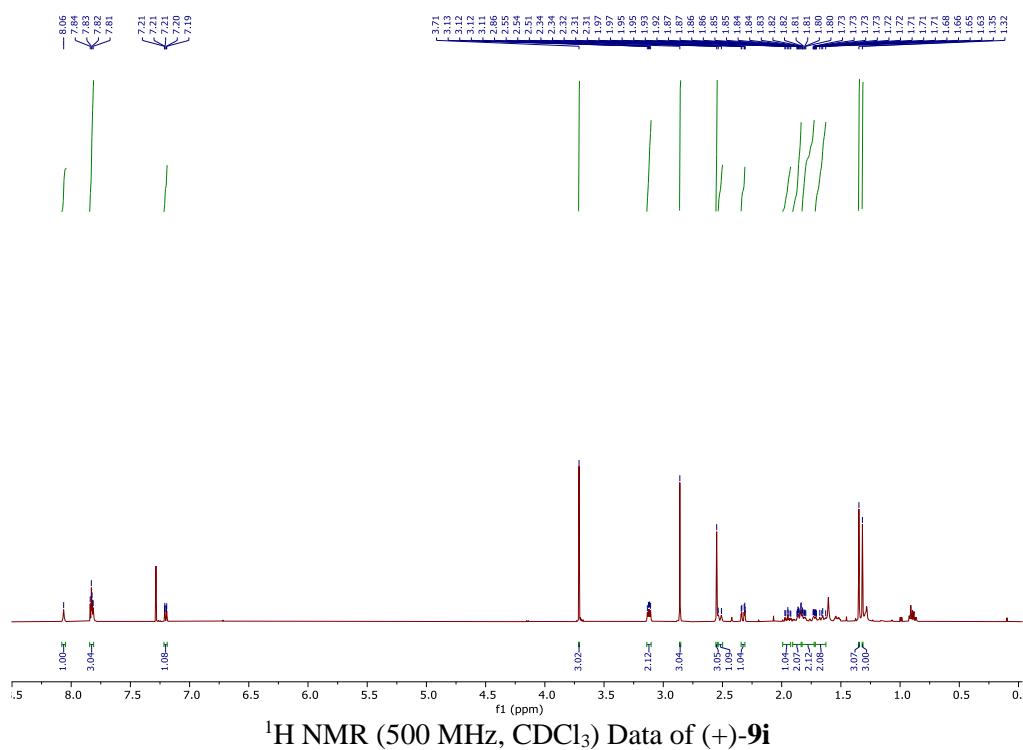
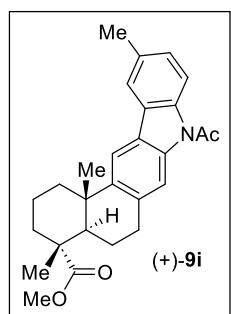
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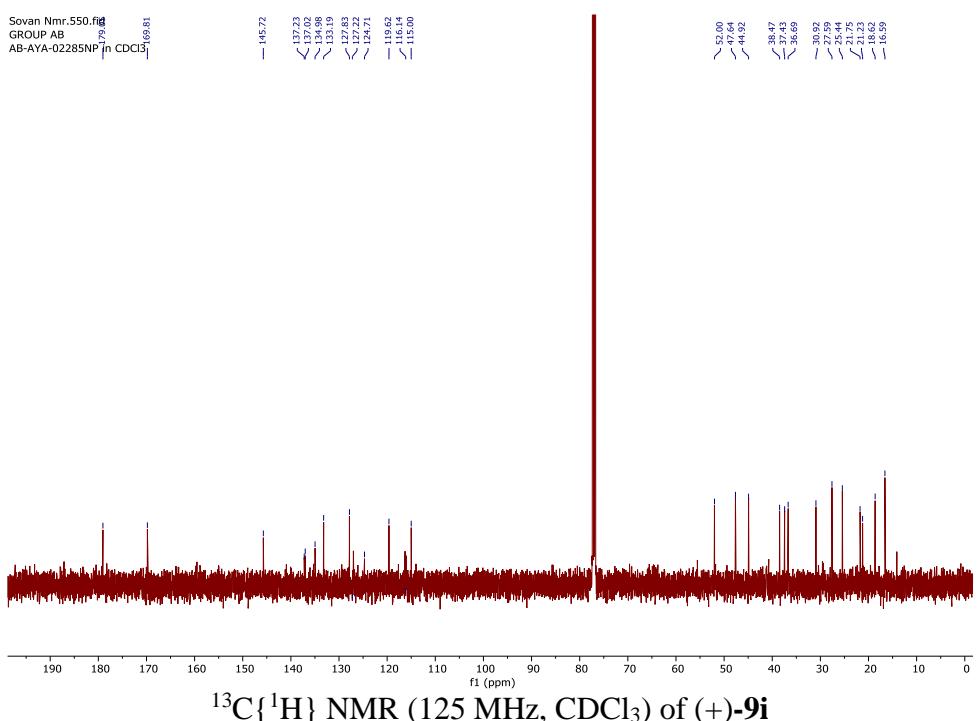
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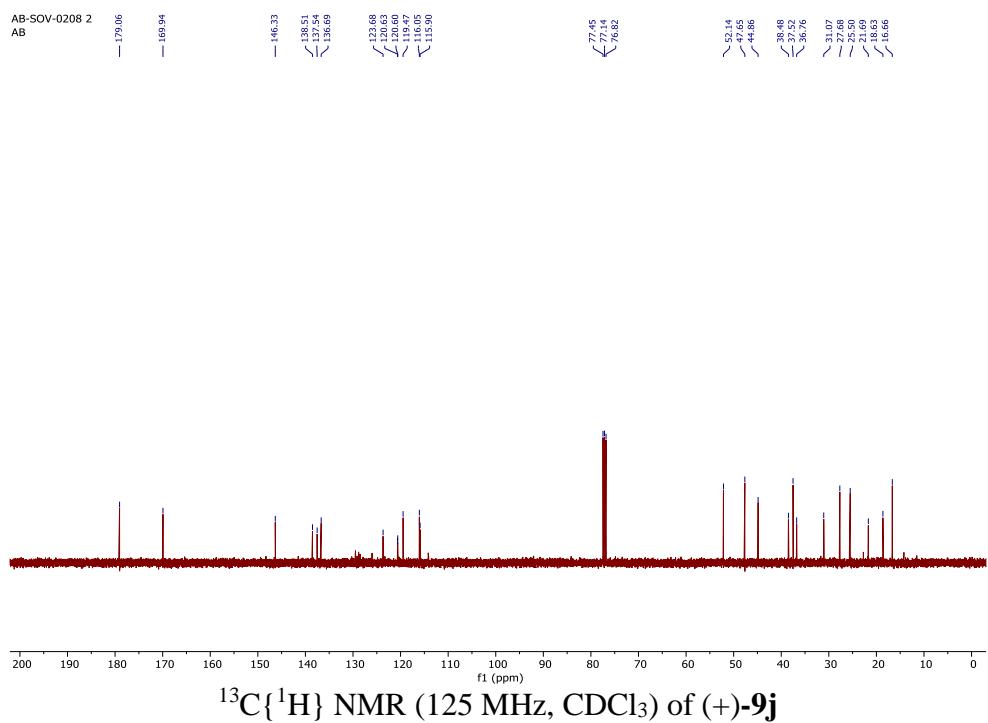
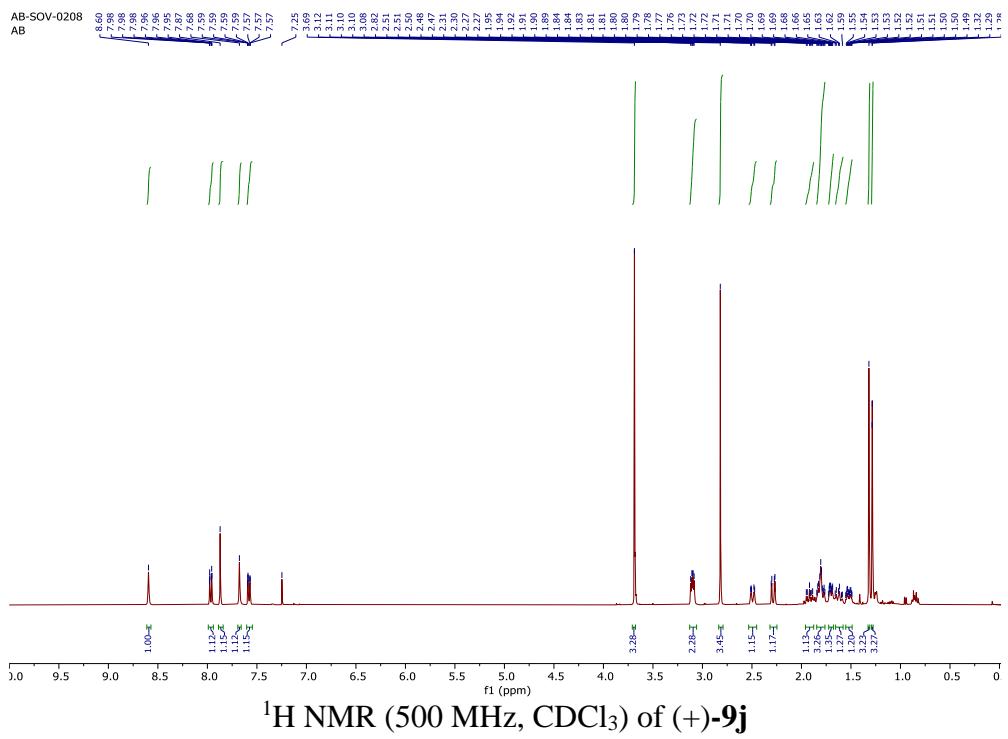
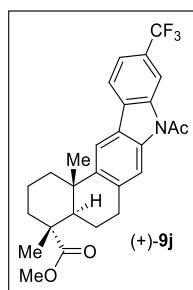


HRMS data of (+)-**9h**

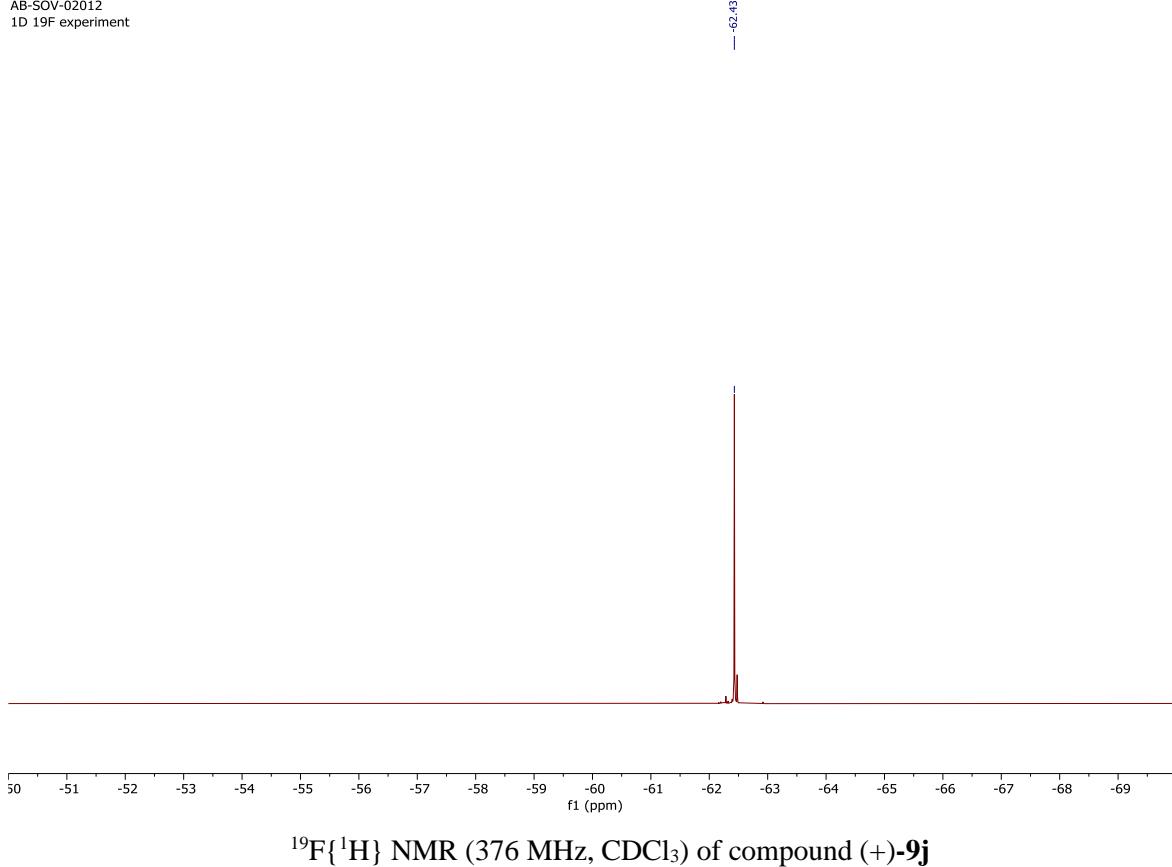


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AB-AYA-02285NP¹³C 69.81

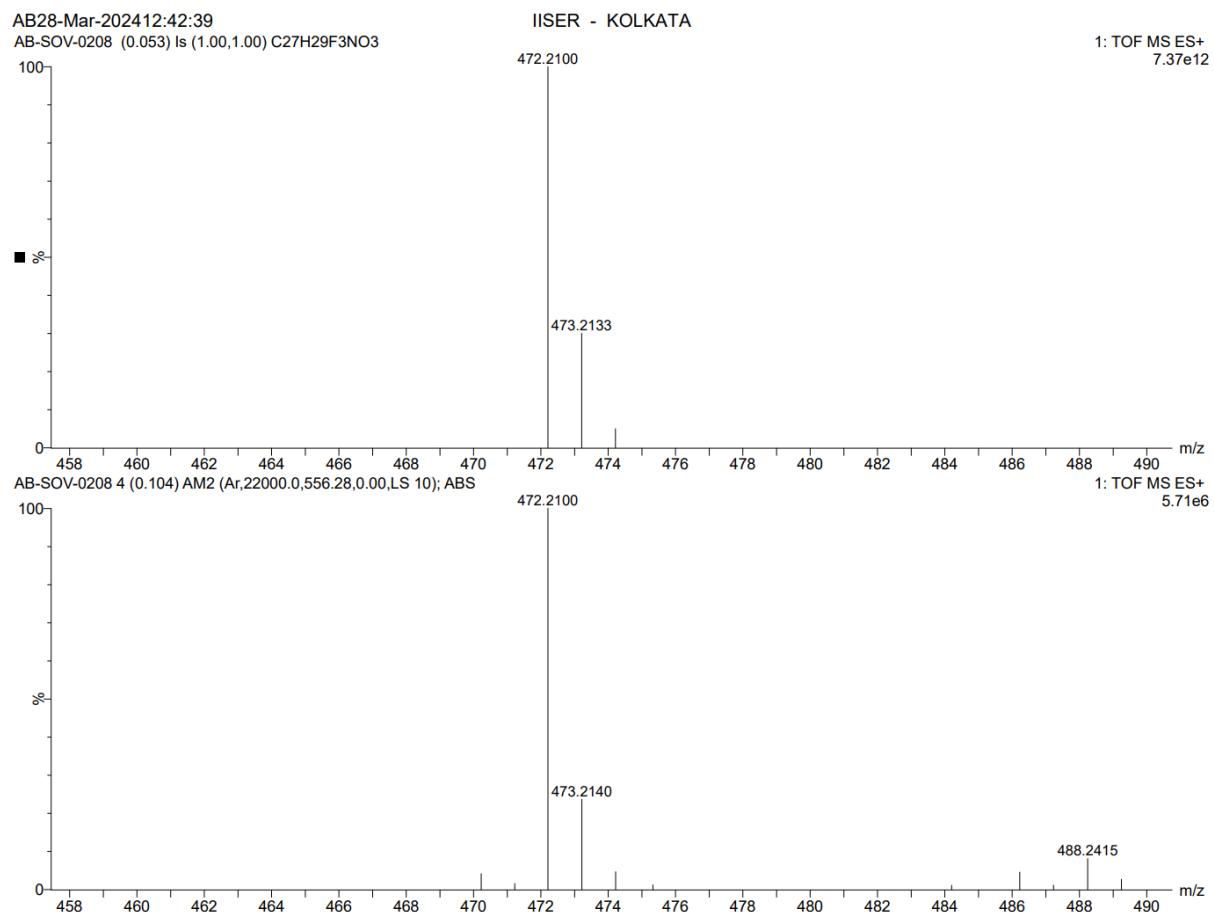




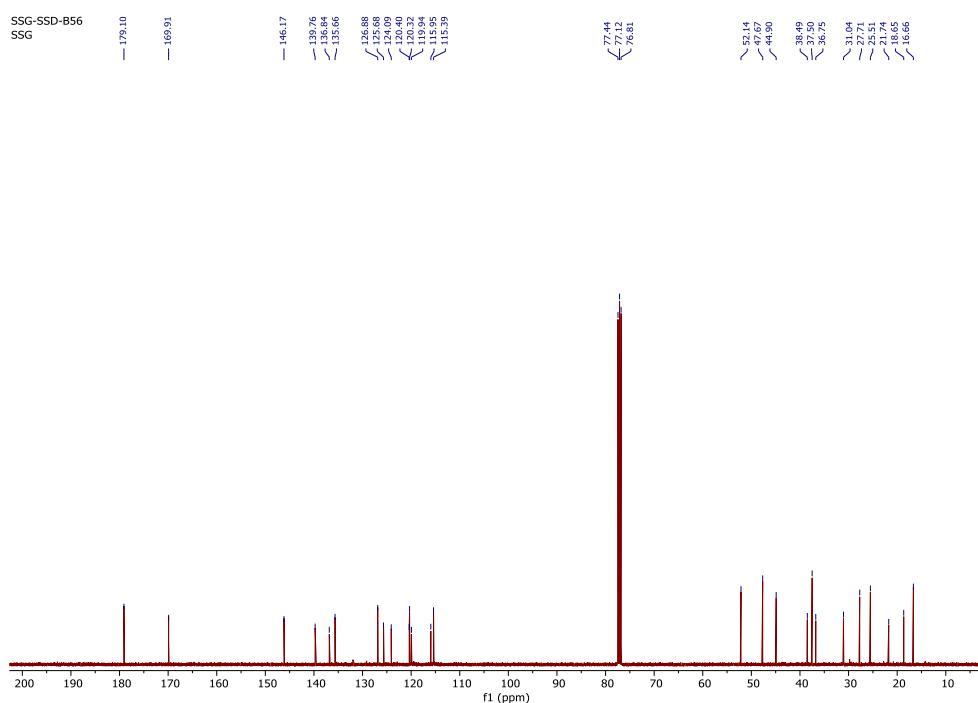
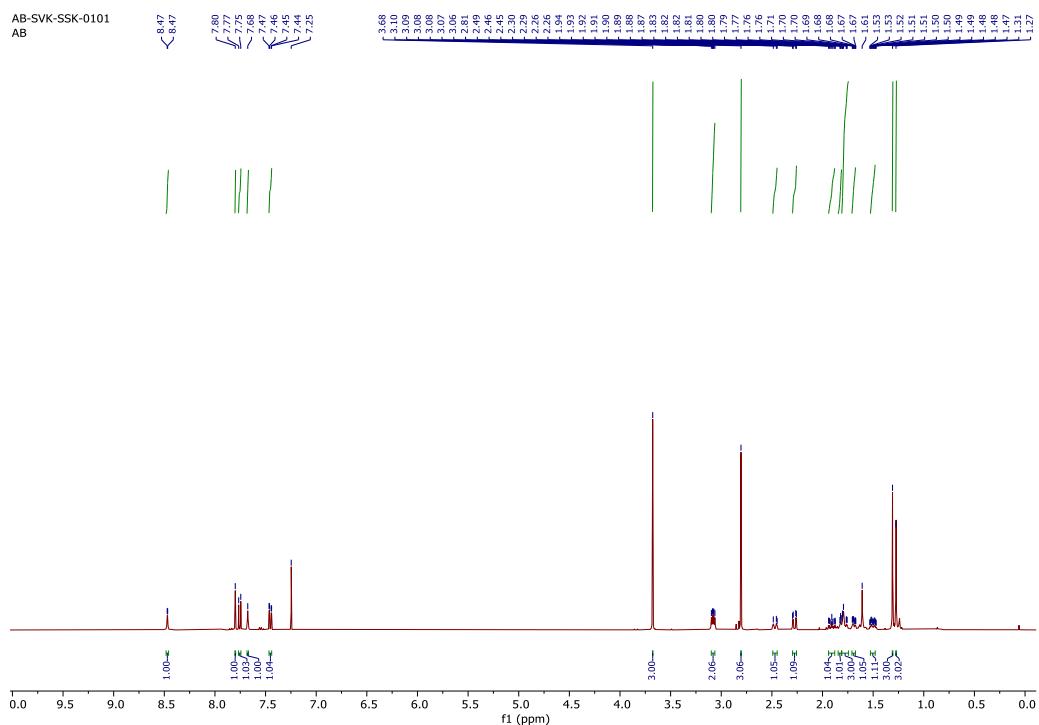
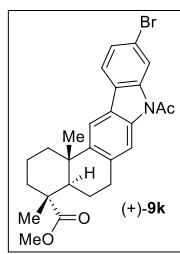
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1D 19F experiment

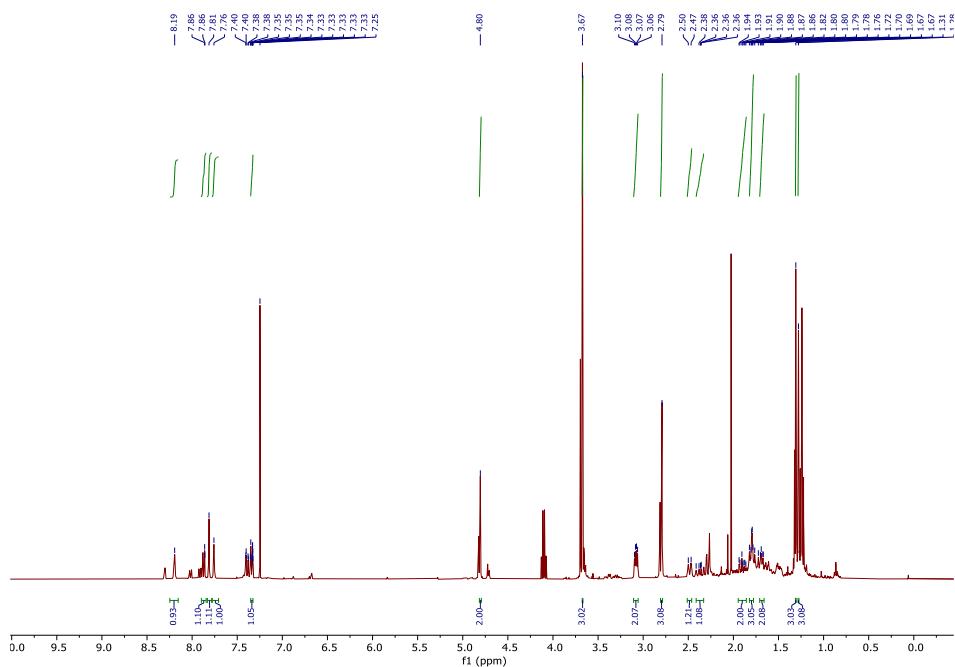
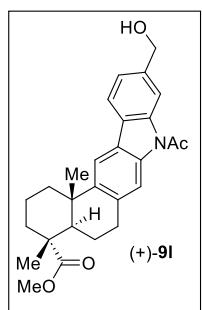


$^{19}\text{F}\{^1\text{H}\}$ NMR (376 MHz, CDCl_3) of compound (+)-**9j**

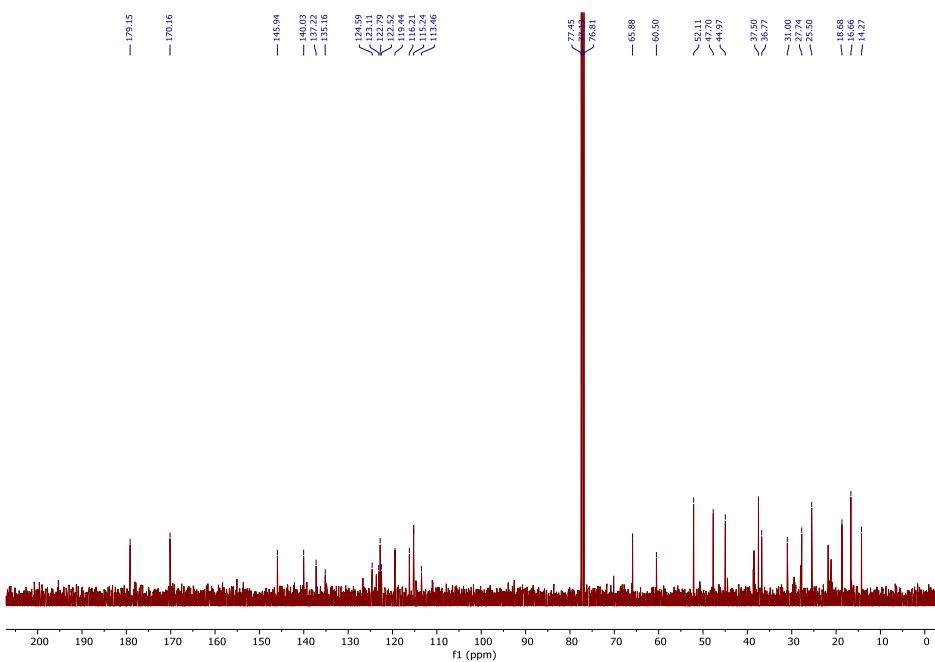


HRMS data of (+)-**9j**

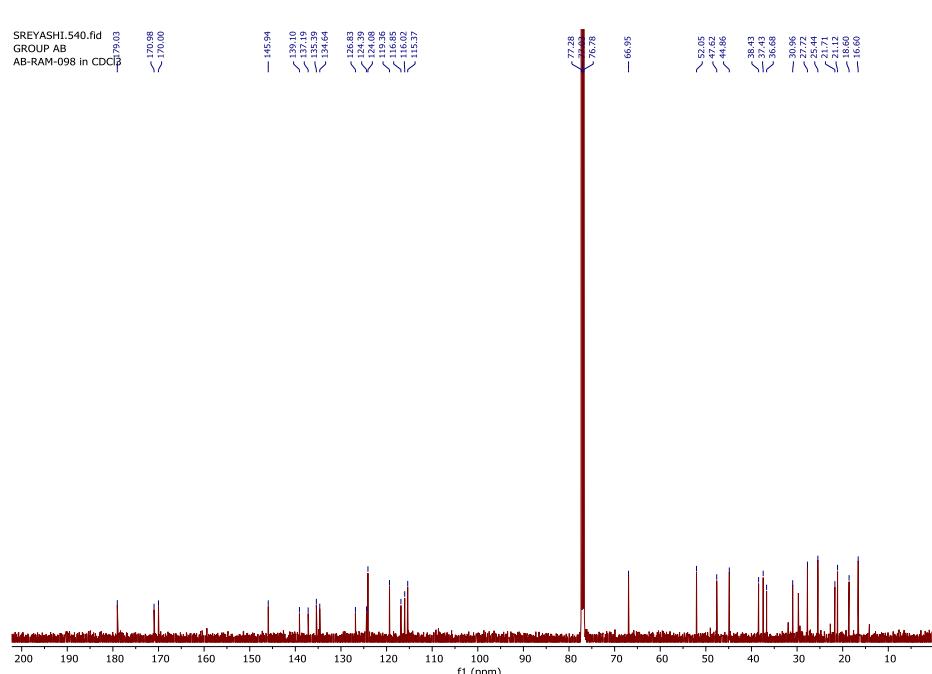
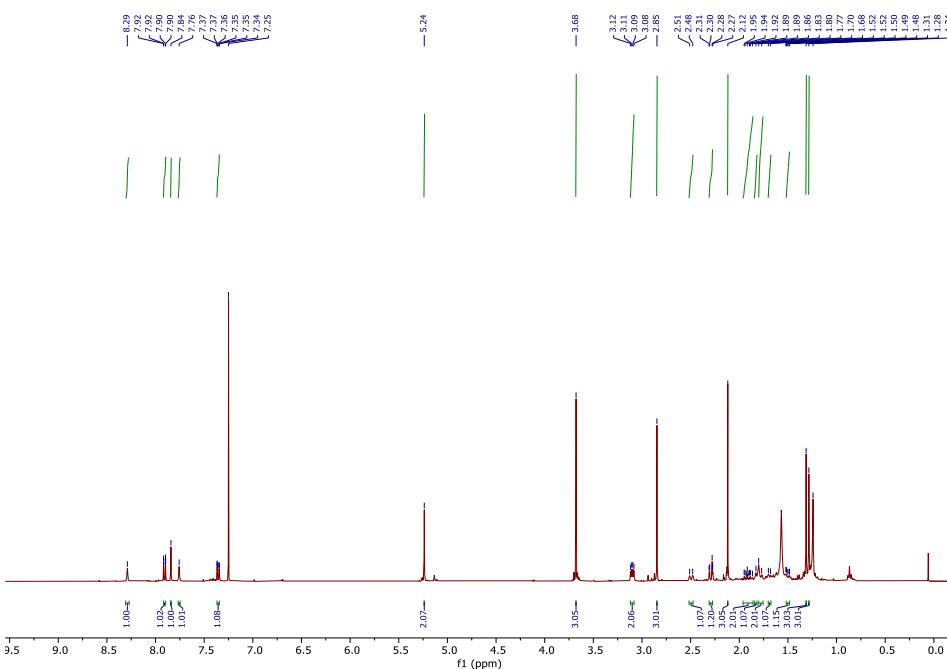
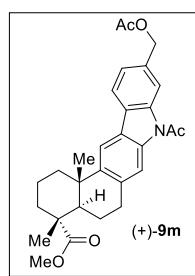


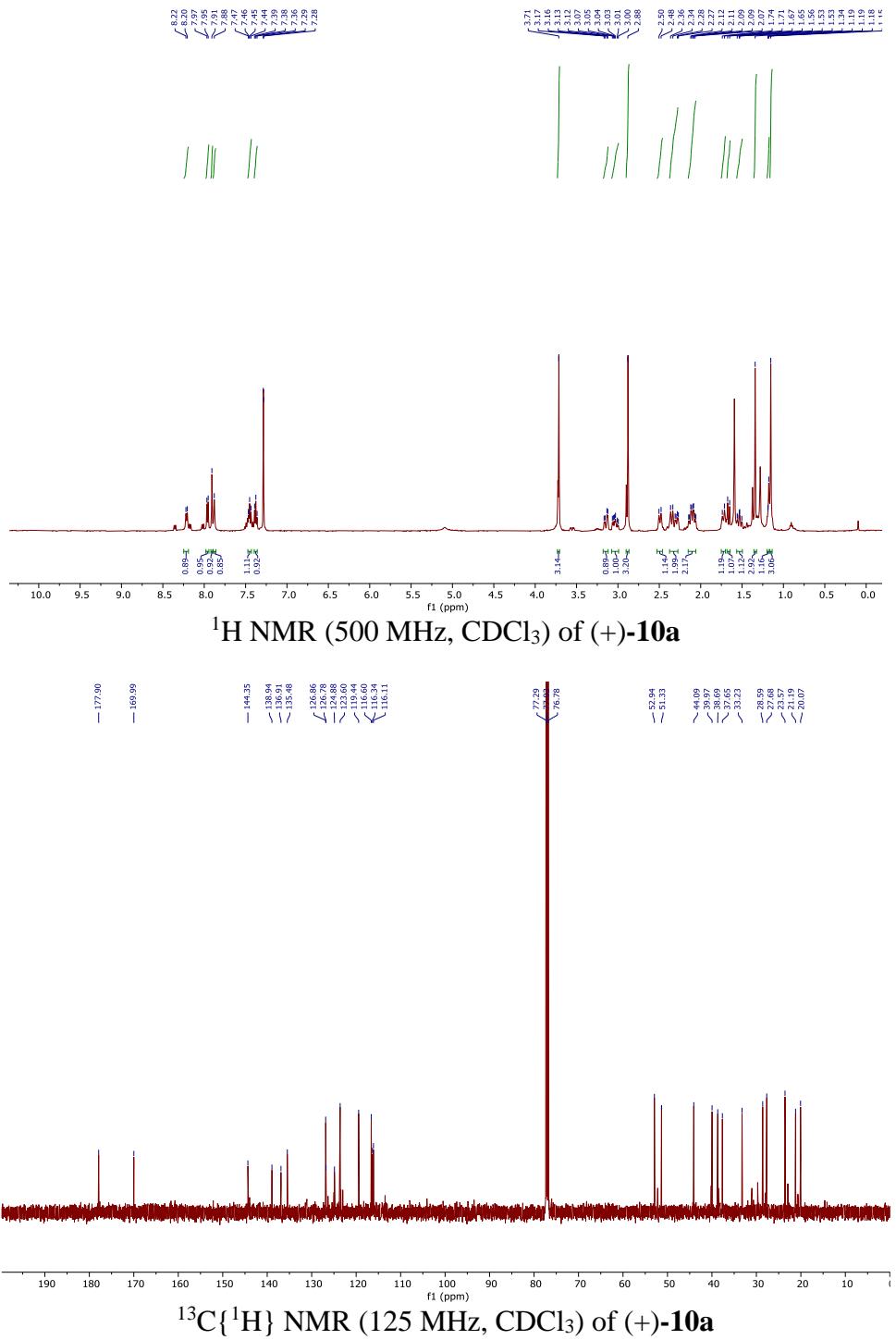
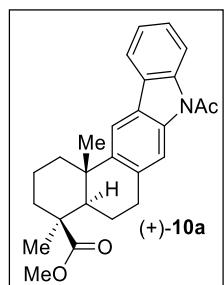


¹H NMR (500 MHz, CDCl₃) data of (+)-9I



¹³C{¹H} NMR (126 MHz, CDCl₃) data of (+)-9I





Display Report

Analysis Info

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 Sample Name Prof.A.Bisai-ABMM2324
 Comment

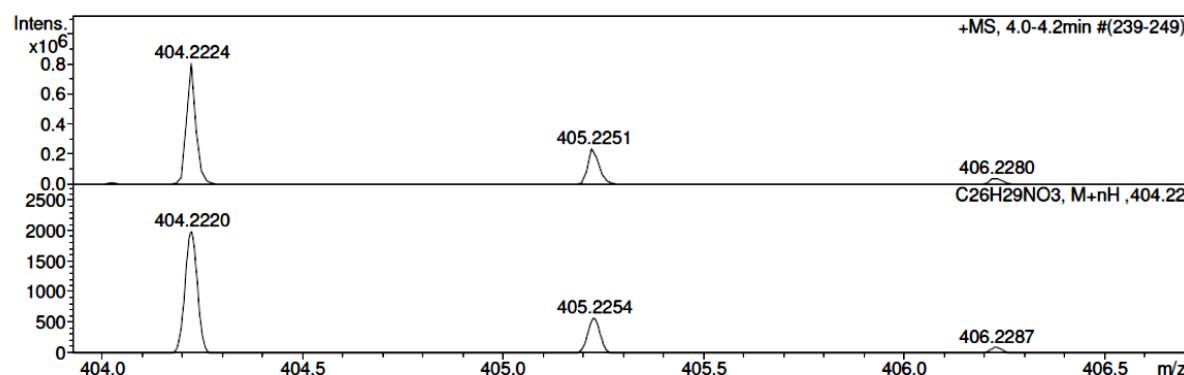
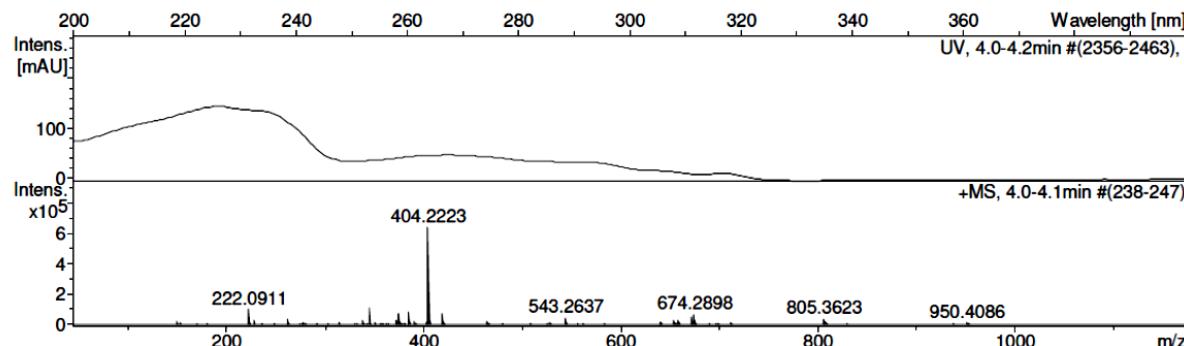
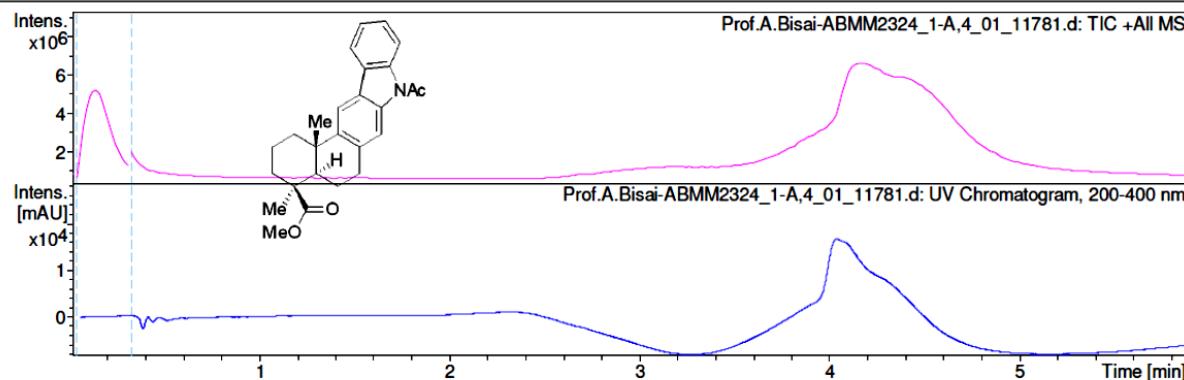
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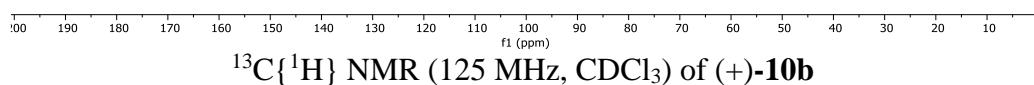
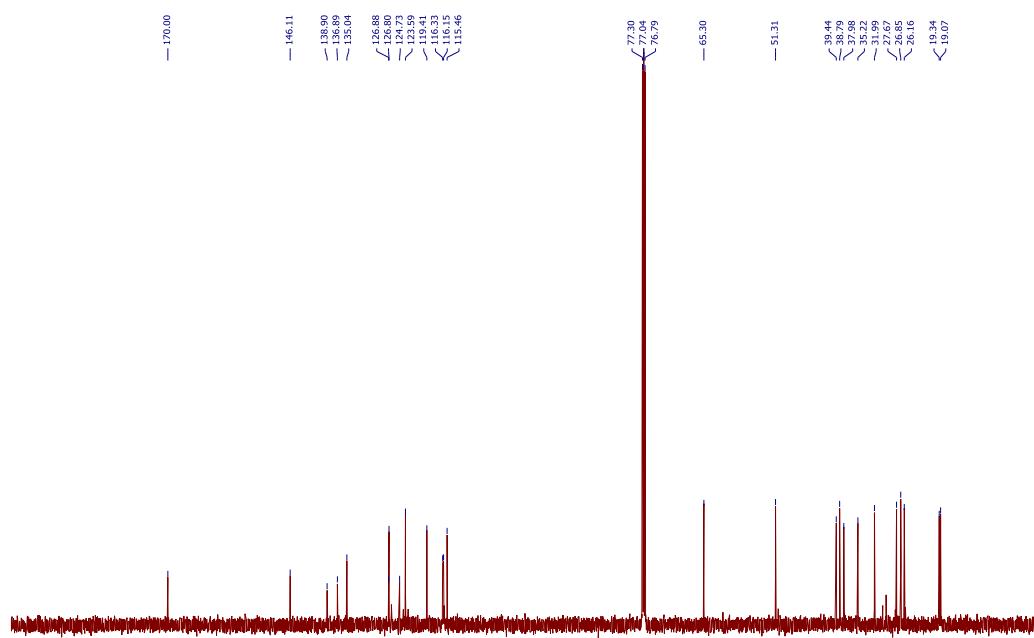
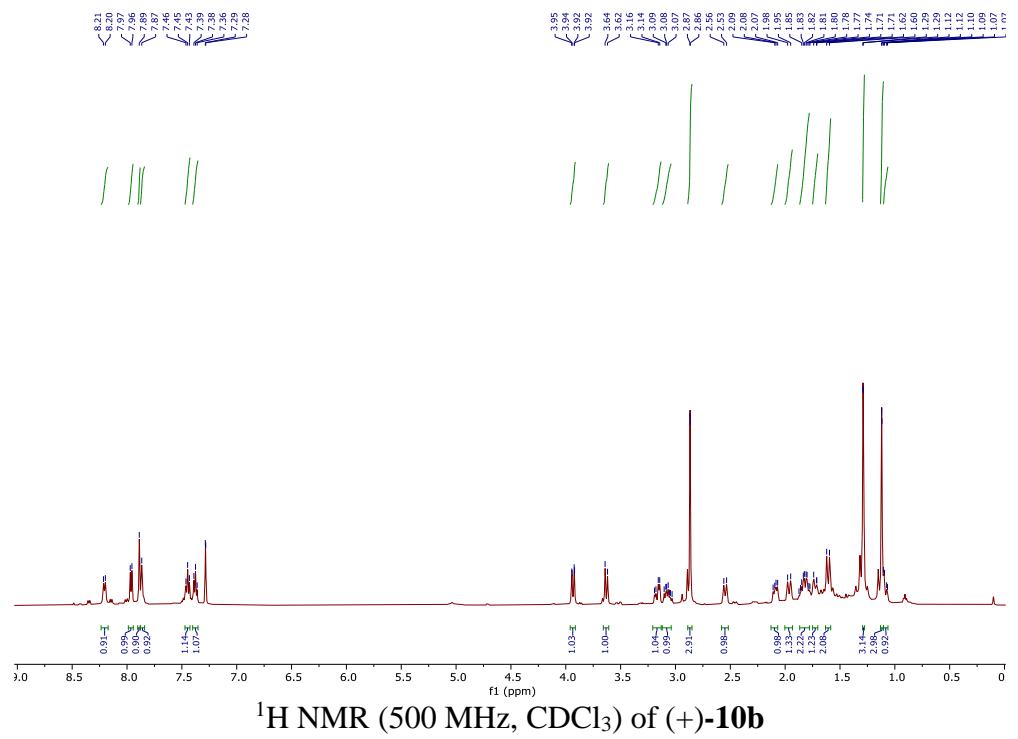
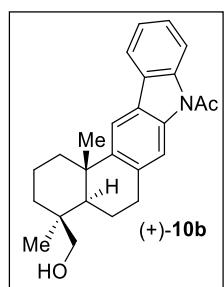
Operator RUCHI

Instrument micrOTOF-Q II 10330

Acquisition Parameter

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Display Report

Analysis Info

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Method hrlcms-20 sept.m
Sample Name Prof.A.Bisai-AB-MM-02329
Comment

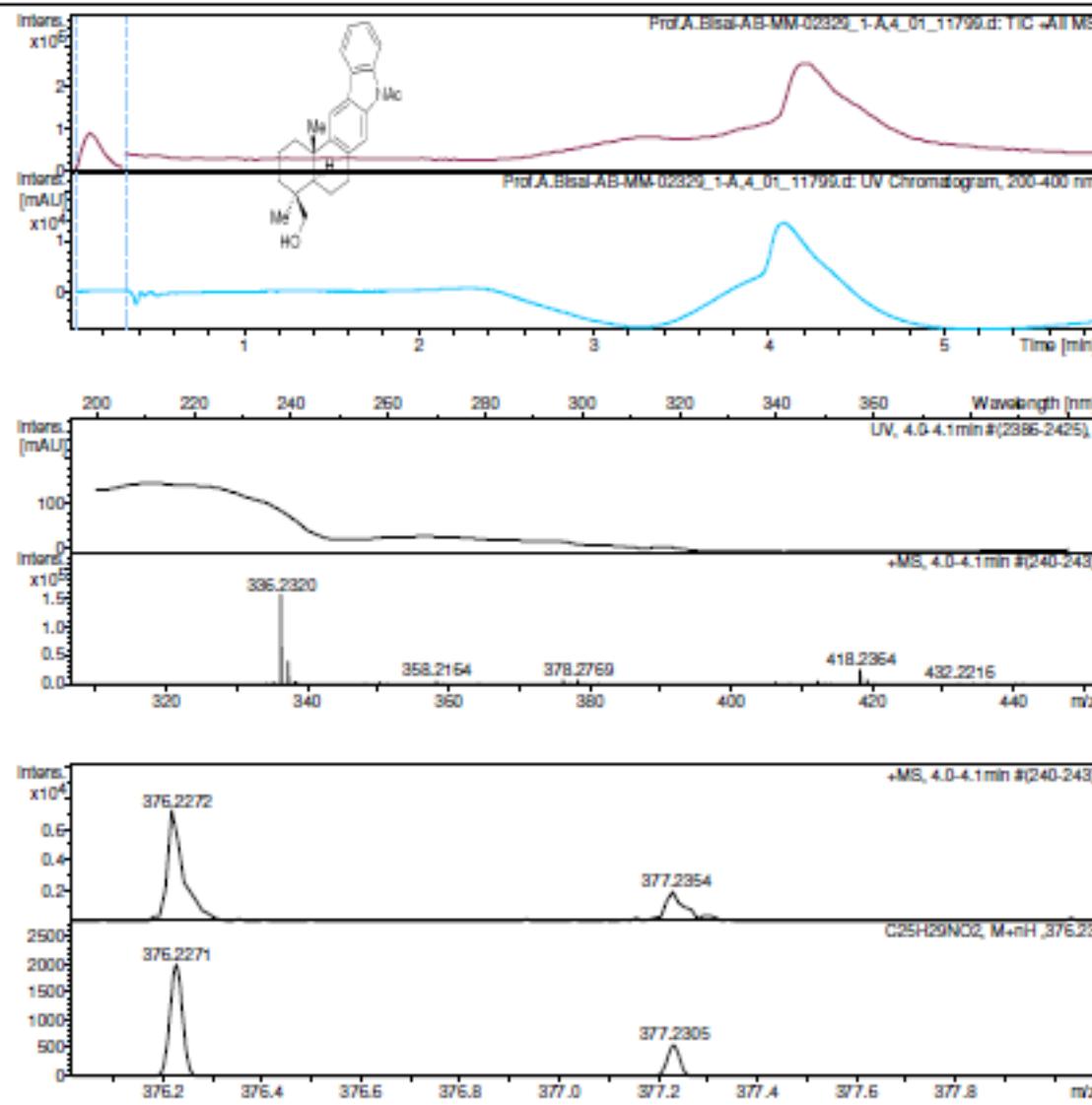
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Operator RUCHI

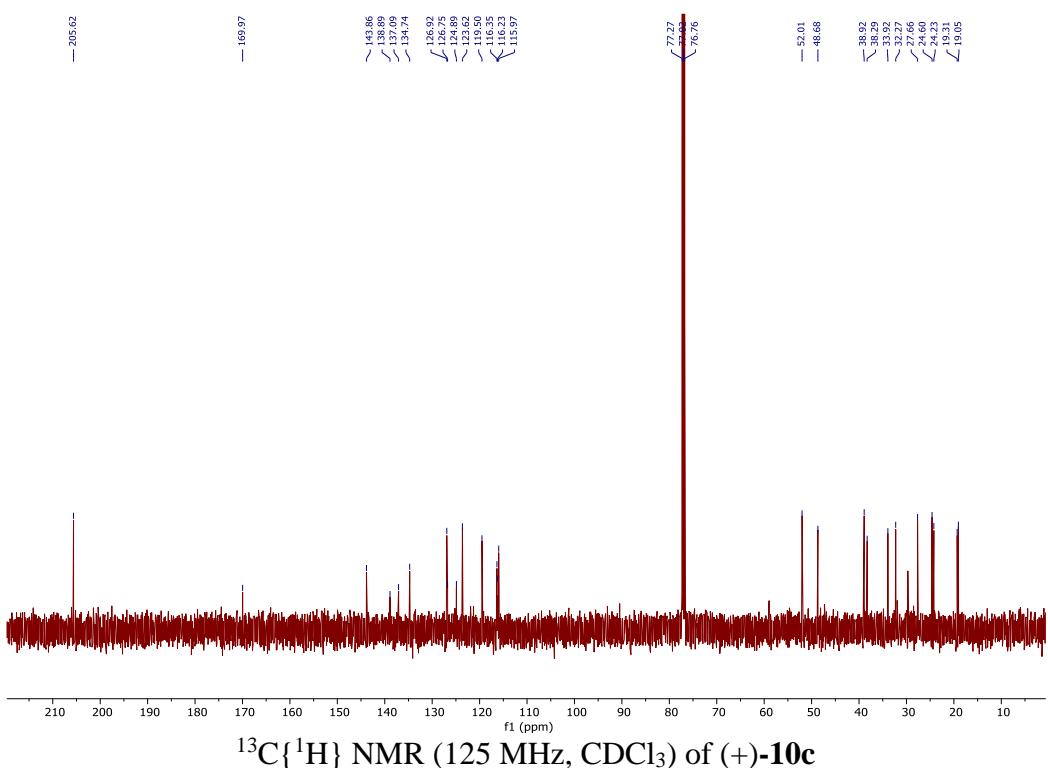
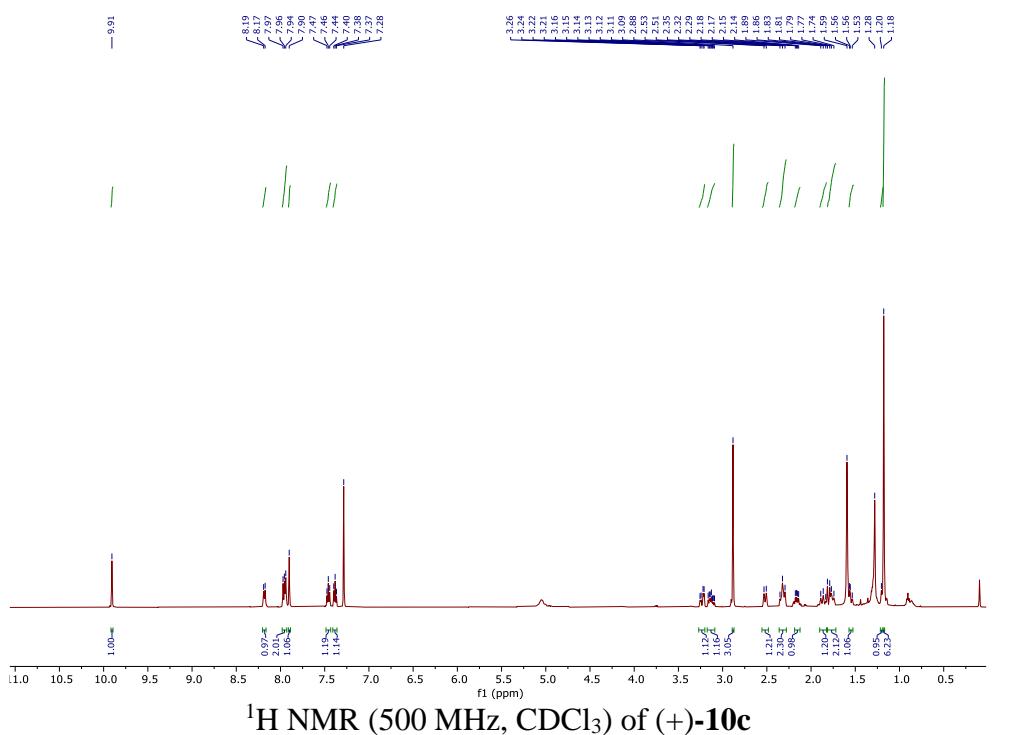
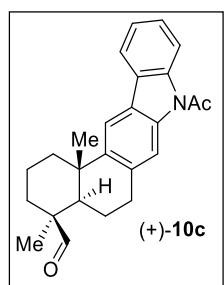
Instrument micrOTOF-Q II 10330

Acquisition Parameter

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HRMS data of (+)-10b



Display Report

Analysis Info

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 Sample Name Prof.A.Bisai-ABMM2331
 Comment

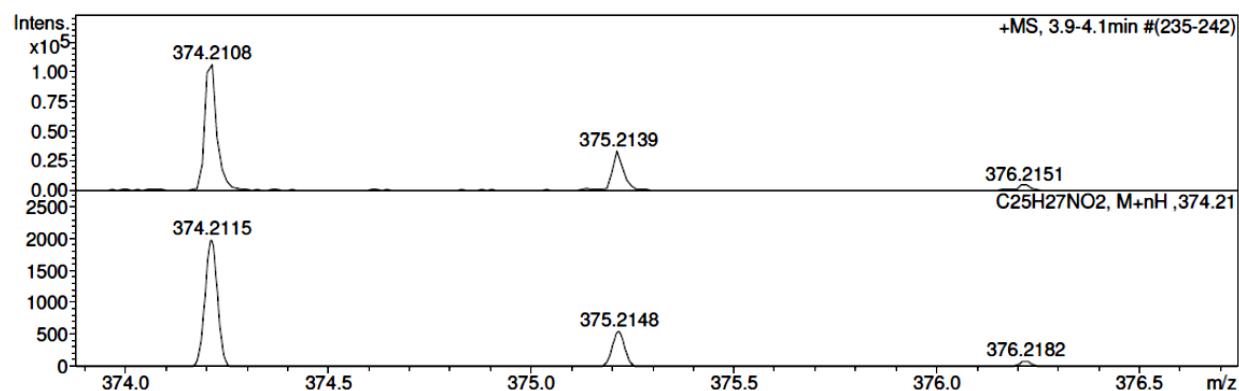
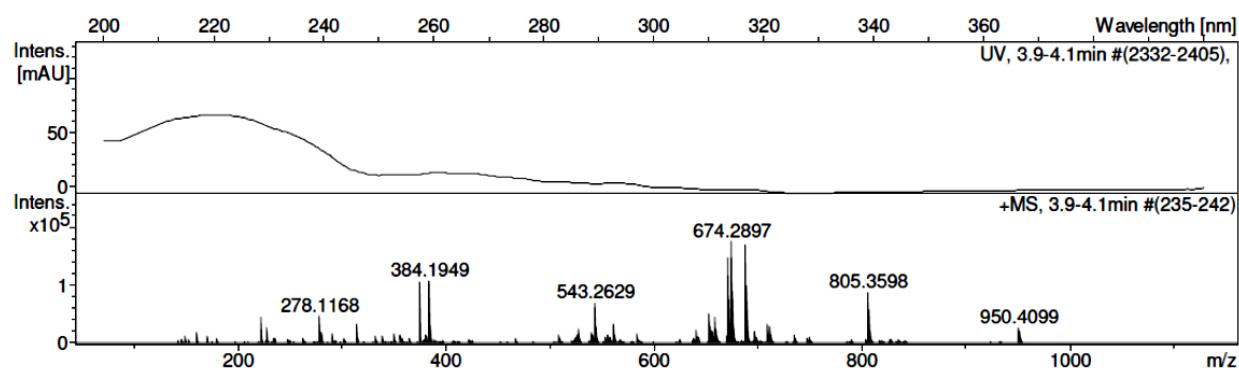
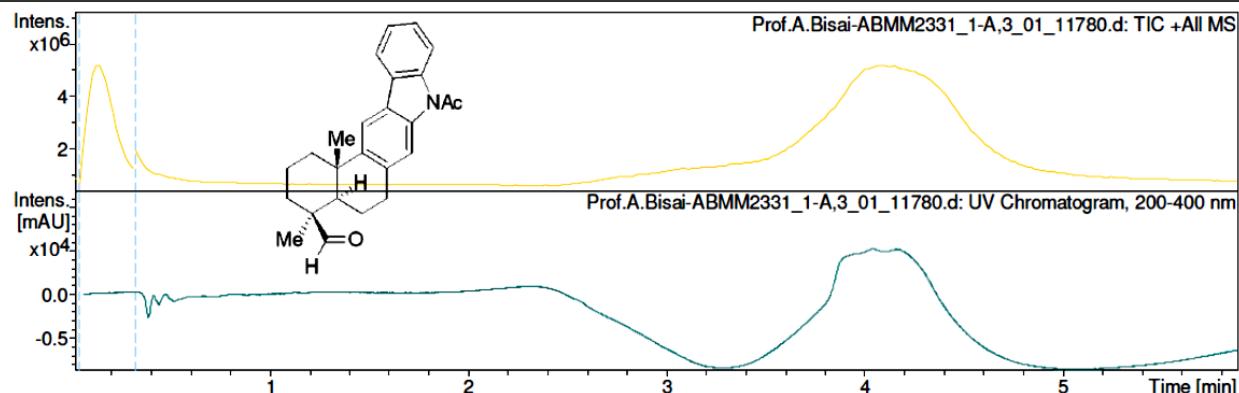
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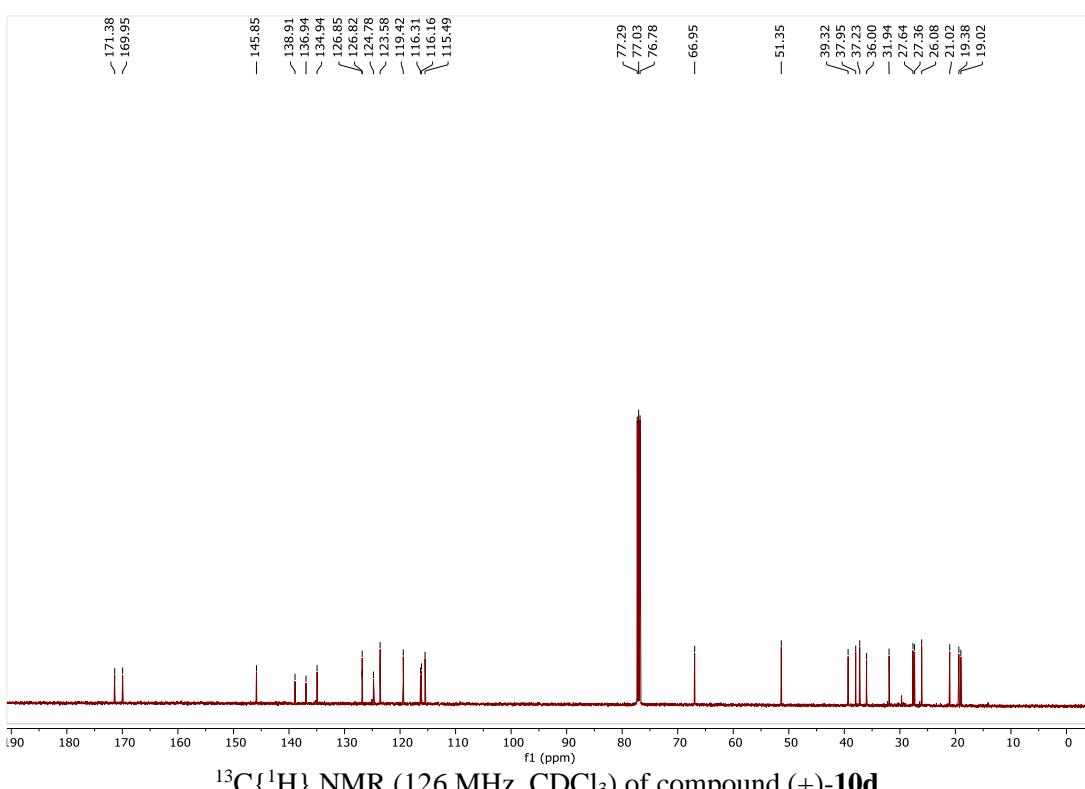
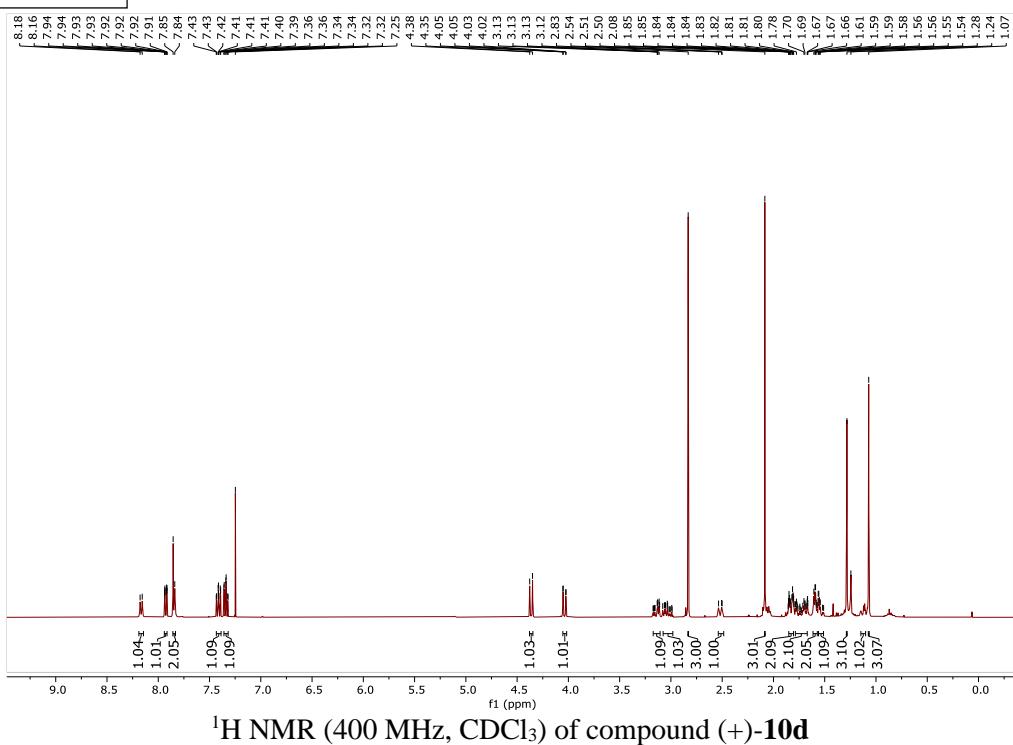
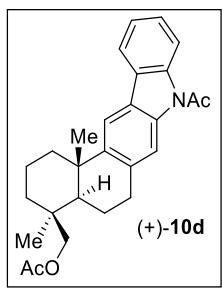
Operator RUCHI

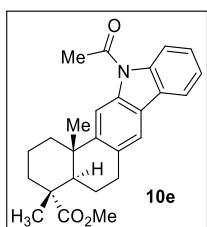
Instrument micrOTOF-Q II 10330

Acquisition Parameter

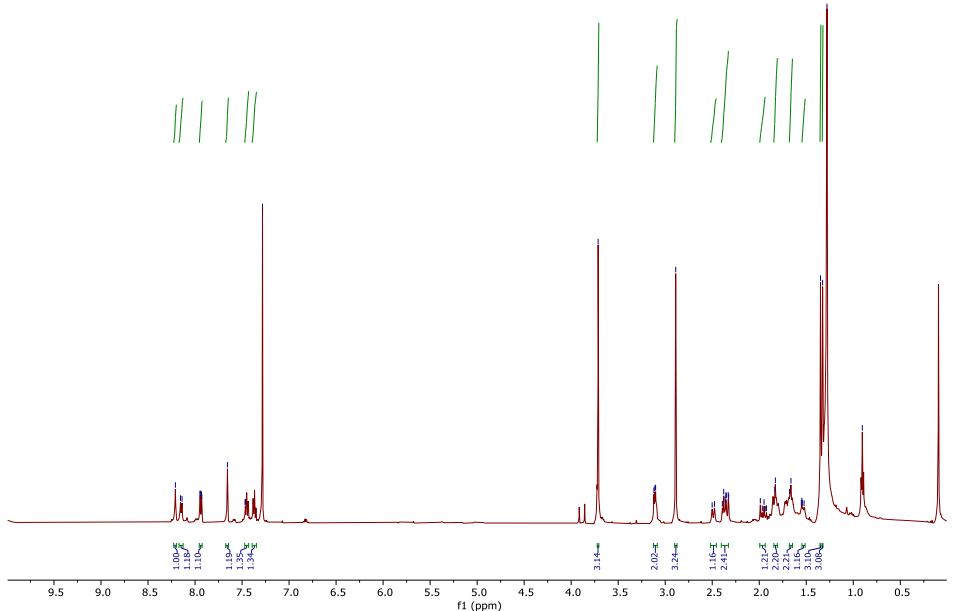
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Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste





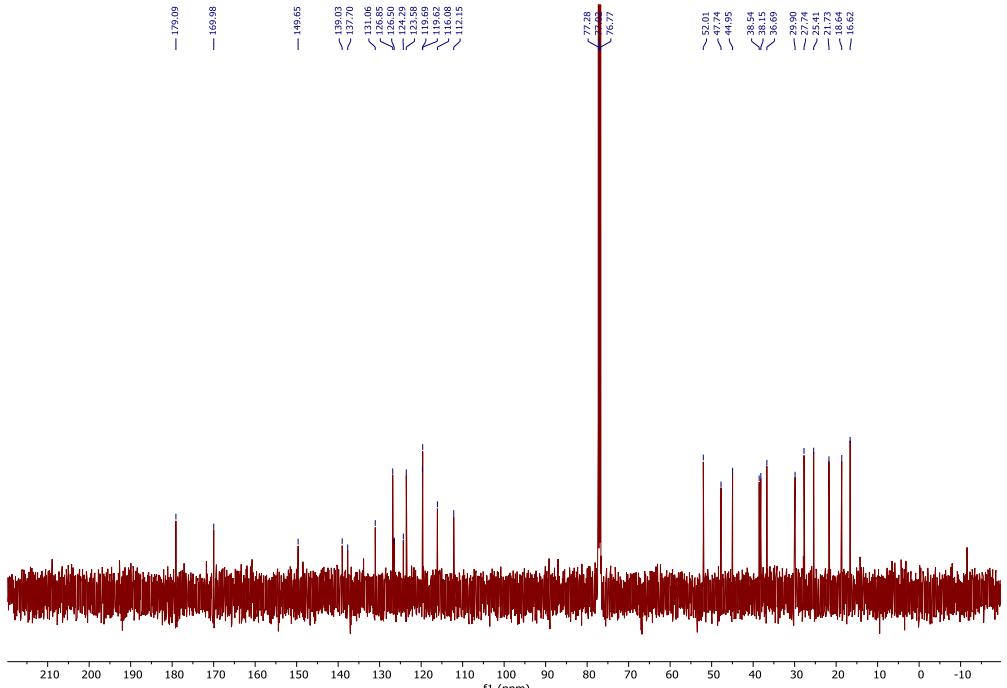


8.21
8.16
8.14
8.05
7.94
7.93
7.93
~7.85
<7.72
<7.46
<7.28



¹H NMR (500 MHz, CDCl₃) of compound **10e**

— 179.09
— 169.98
— 149.65
— 129.03
— 127.70
— 121.06
— 126.85
— 126.50
— 124.29
— 123.58
— 119.69
— 118.62
— 116.88
— 112.15

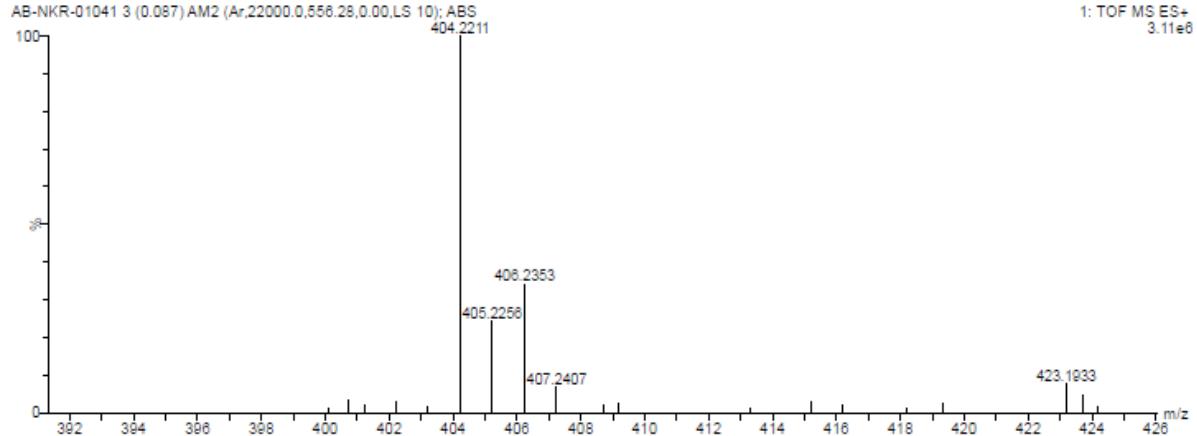
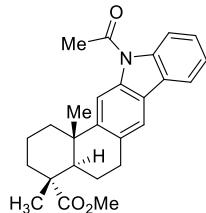
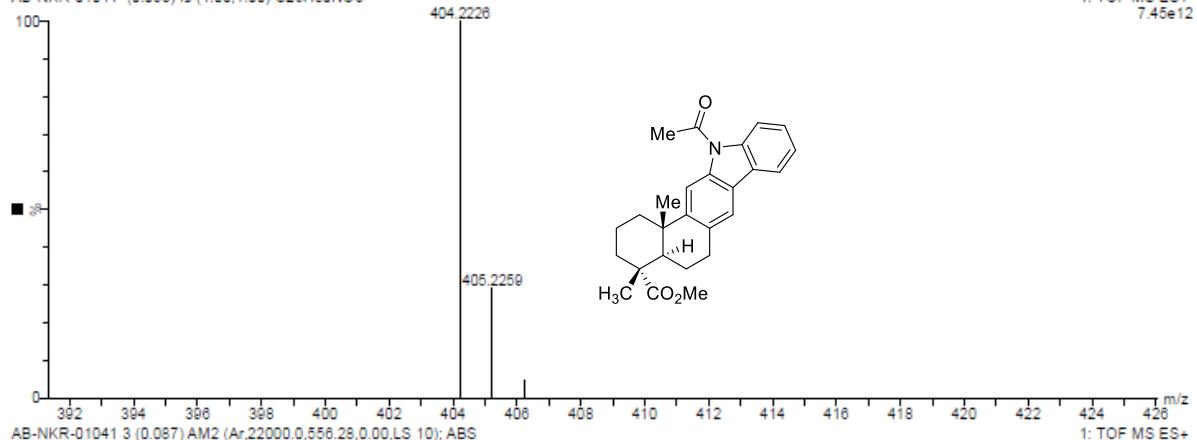


¹³C{¹H} NMR (125 MHz, CDCl₃) of compound **10e**

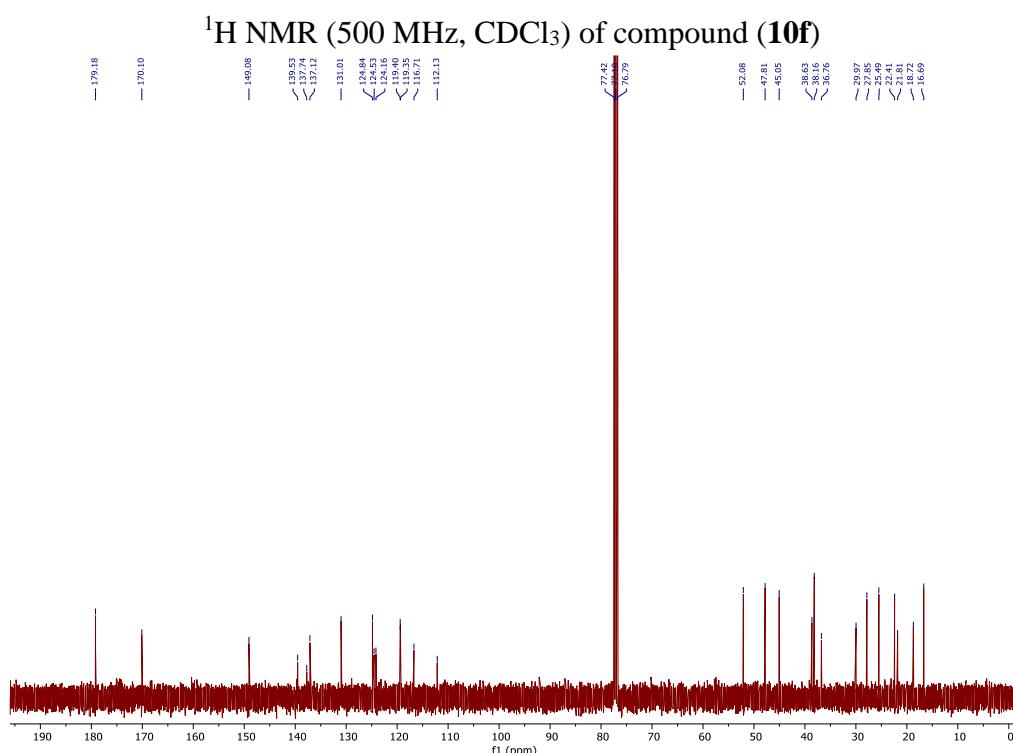
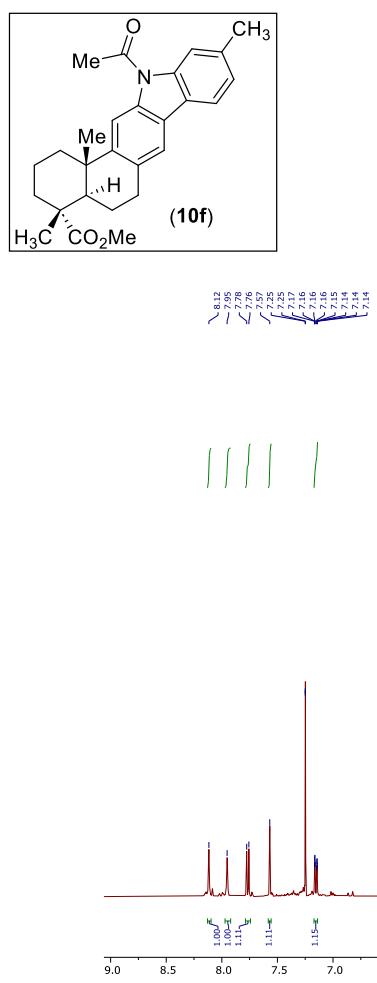
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IISER - KOLKATA

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7.45e12



Mass data of compound **10e**

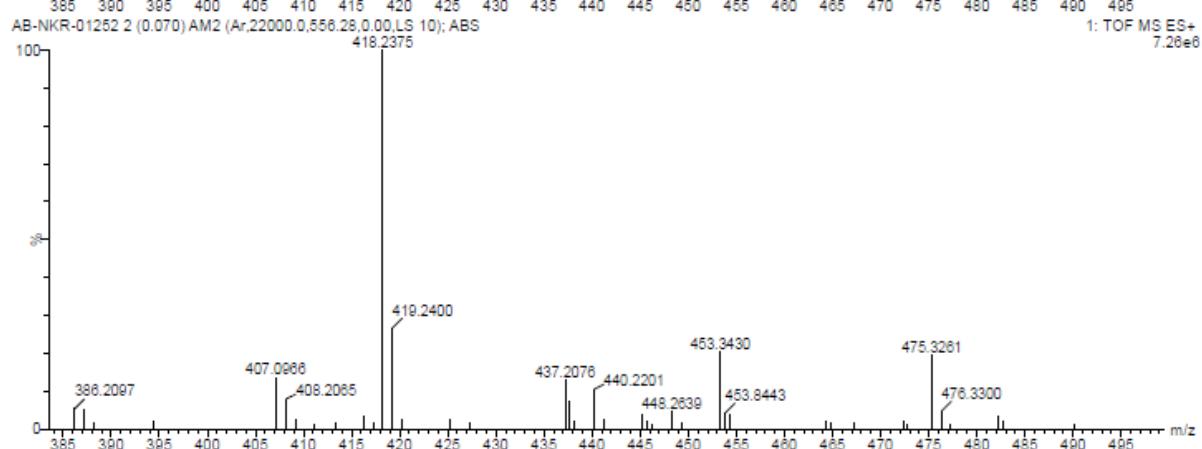
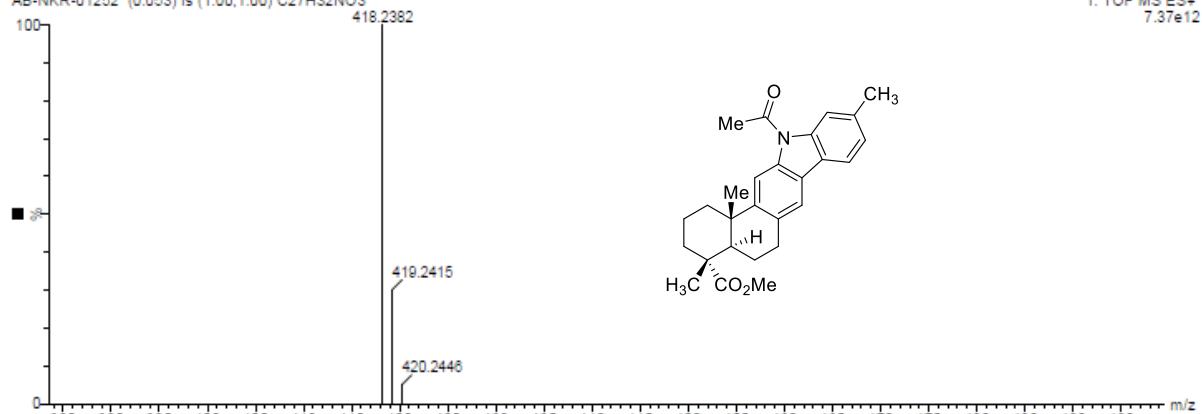


AB29-Apr-2024 14:39:02

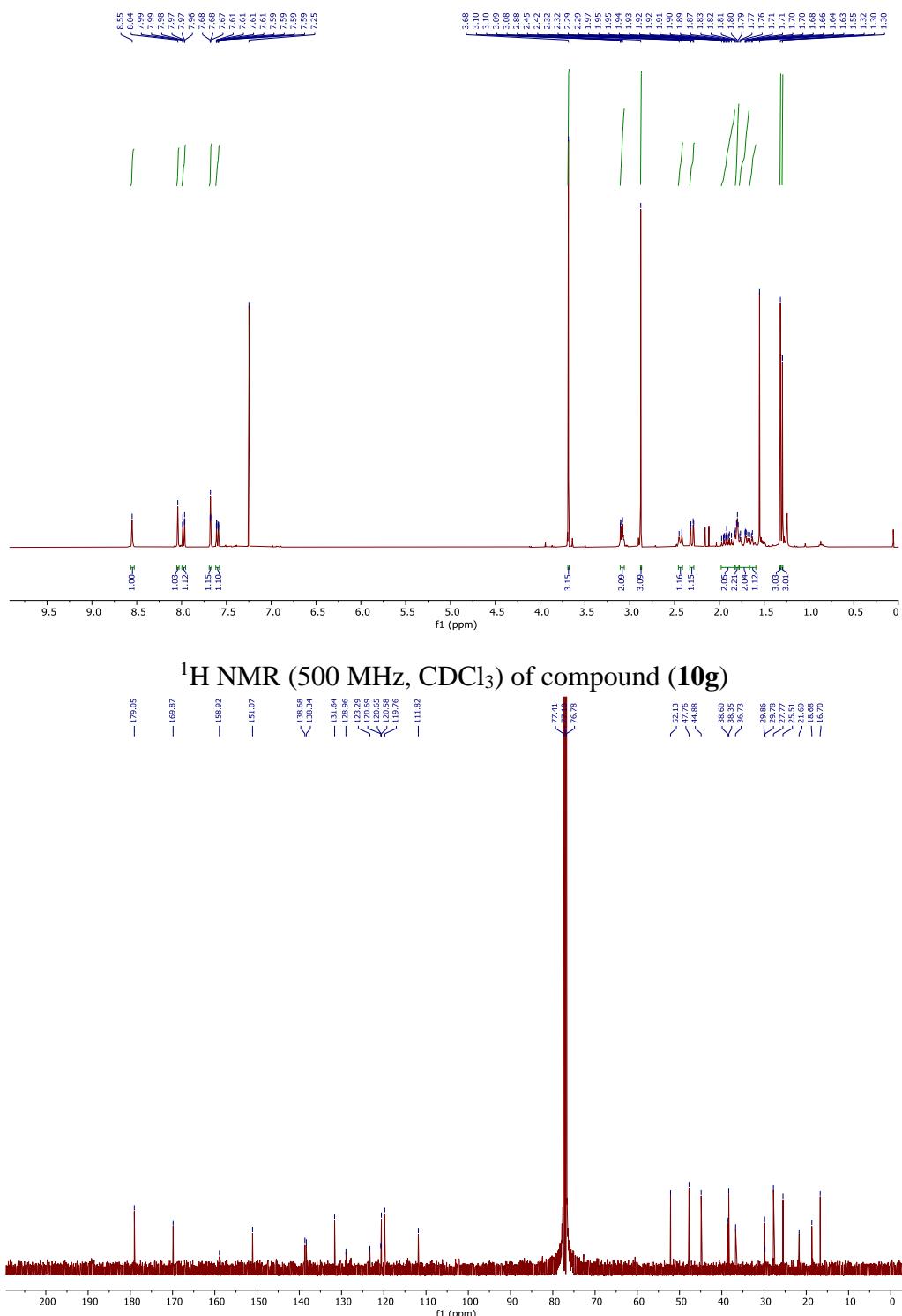
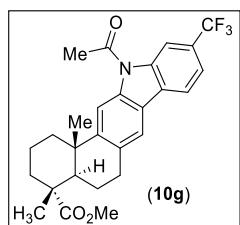
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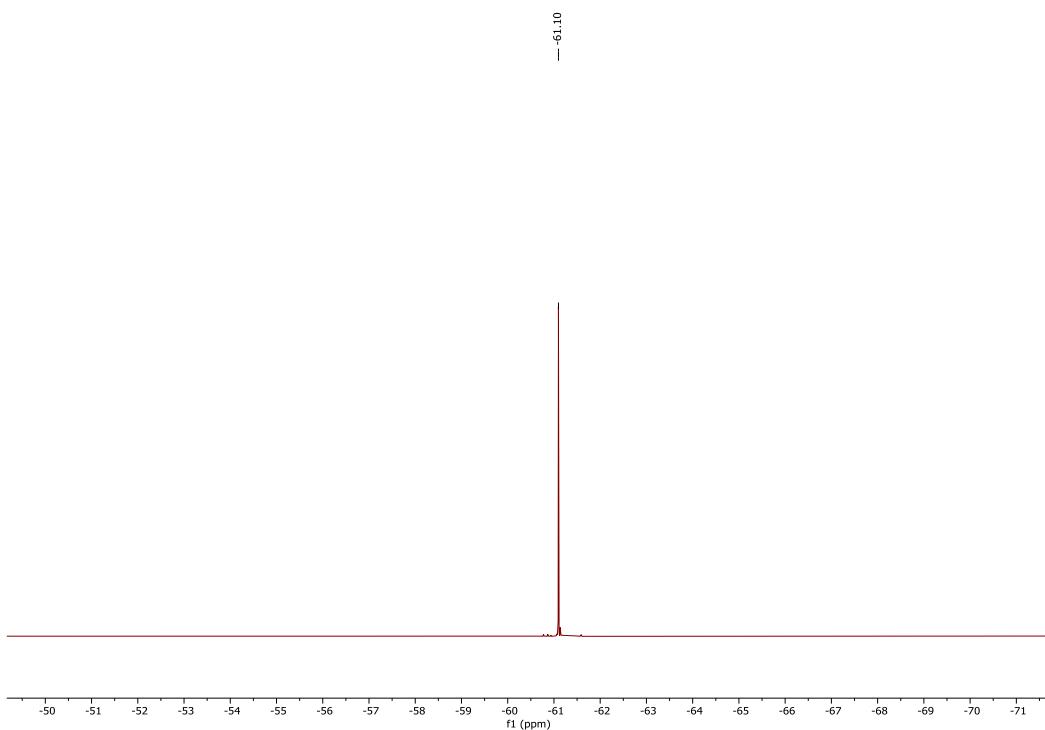
IISER - KOLKATA

1: TOF MS ES+
7.37e12



Mass data of compound (**10f**)





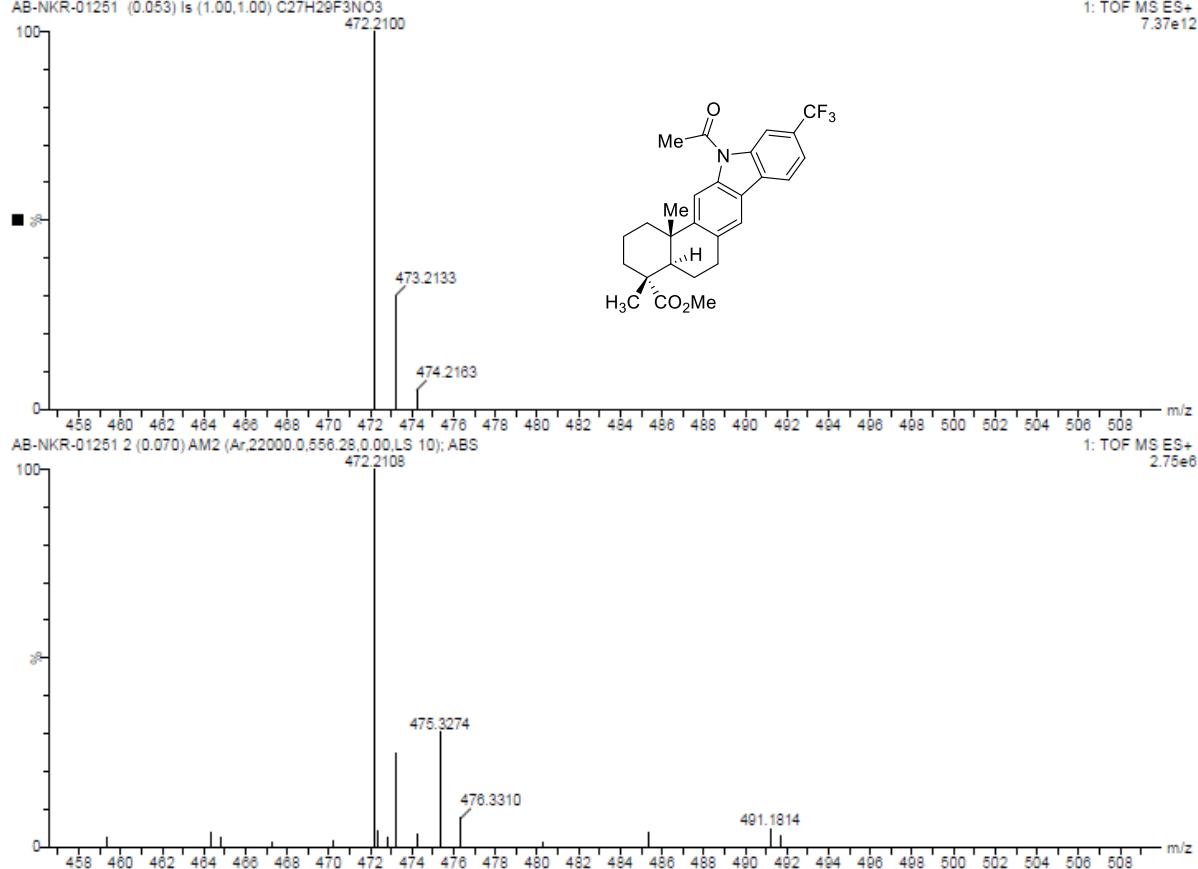
${}^{19}\text{F}\{{}^1\text{H}\}$ NMR (376 MHz, CDCl_3) of compound **10g**

AB29-Apr-2024 14:37:25

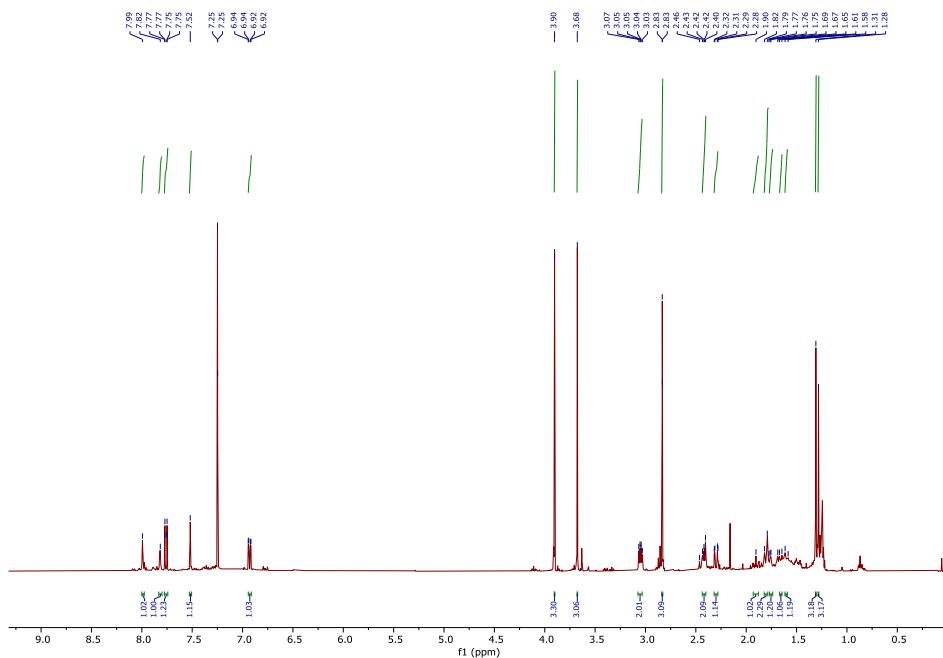
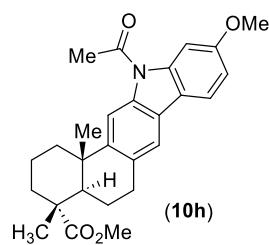
AB-NKR-01251 (0.053) ls (1.00,1.00) C₂₇H₂₉F₃NO₃

IISER - KOLKATA

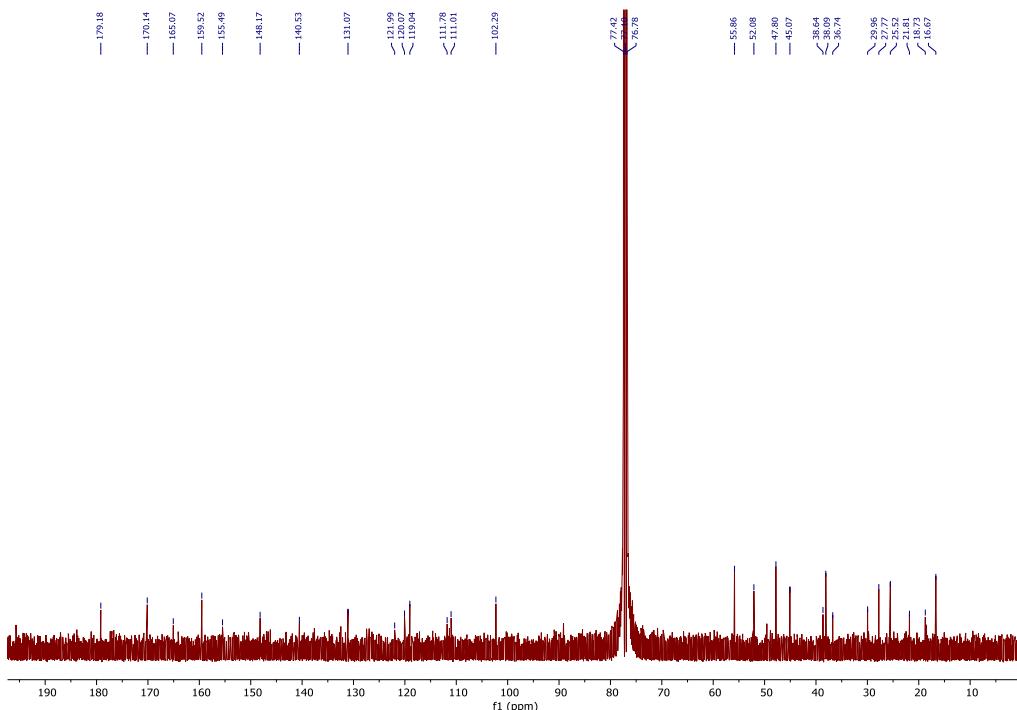
1: TOF MS ES+
7.37e12



Mass data of compound (**10g**)



¹H NMR (500 MHz, CDCl₃) of compound (10h)

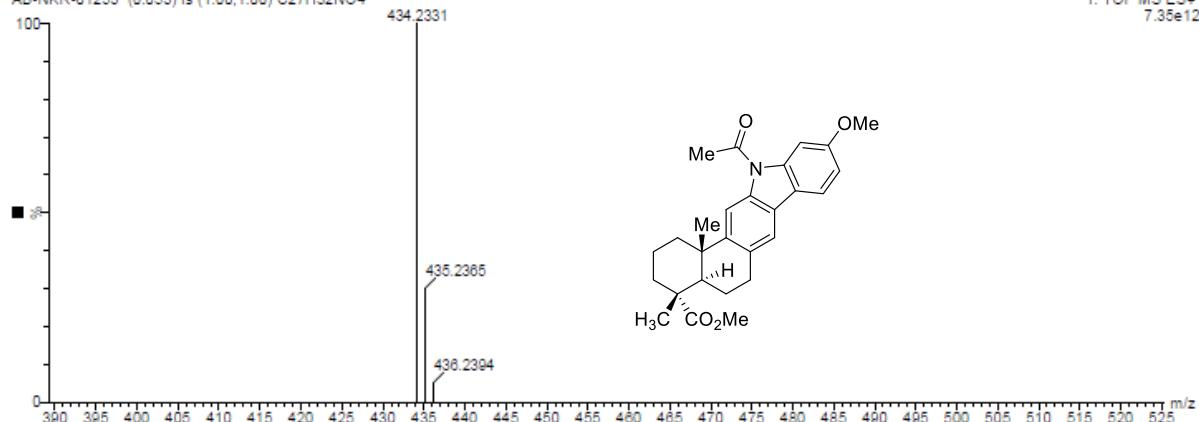


¹³C{¹H} NMR (125 MHz, CDCl₃) of compound (10h)

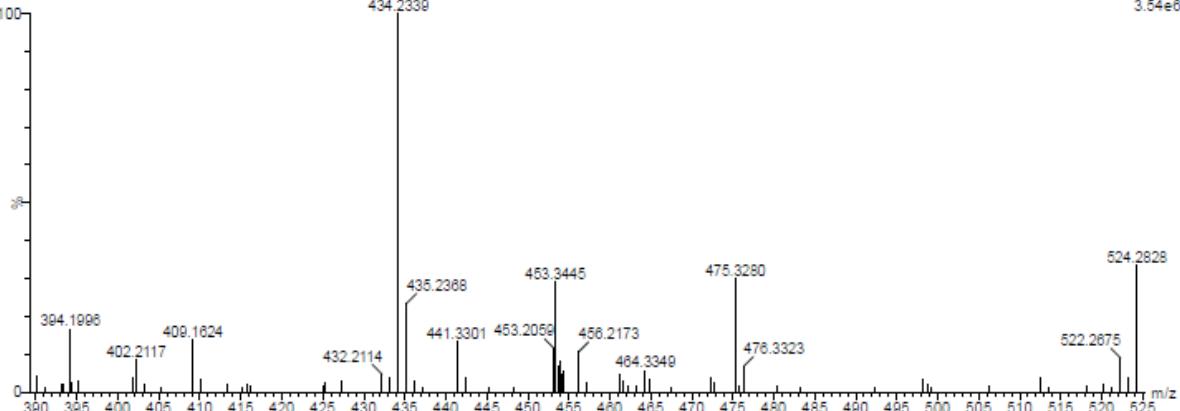
AB29-Apr-2024 14:40:39
AB-NKR-01253 (0.053) ls (1.00,1.00) C27H32NO4

IISER - KOLKATA

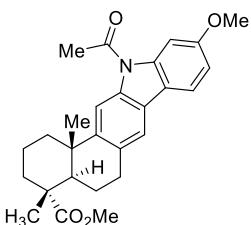
1: TOF MS ES+
7.35e12

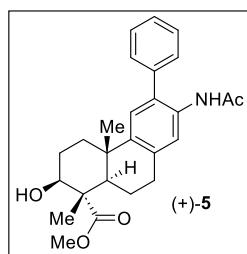


AB-NKR-01253 3 (0.087) AM2 (Ar,22000,0.556,28,0.00,LS 10); ABS
1: TOF MS ES+ 3.54e6

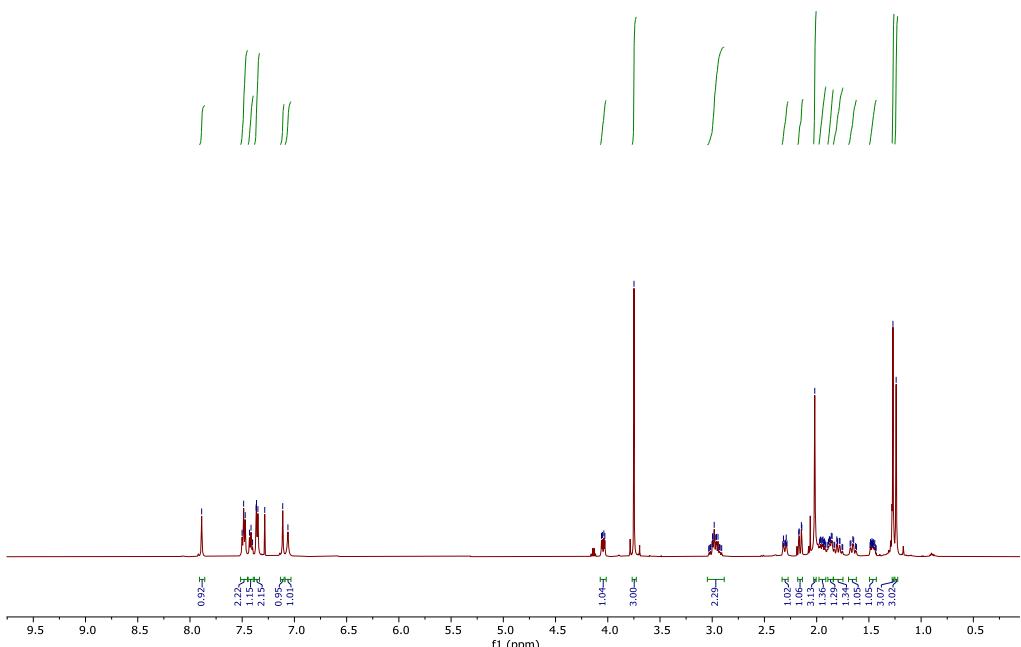


Mass data of compound (**10h**)



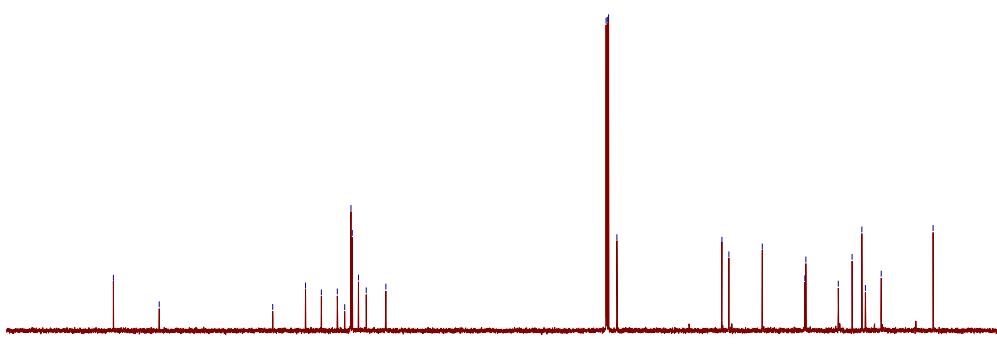


Sovan Desktop.8012fid
GROUP AB
AB-AYA-RN0359 in CDCl₃

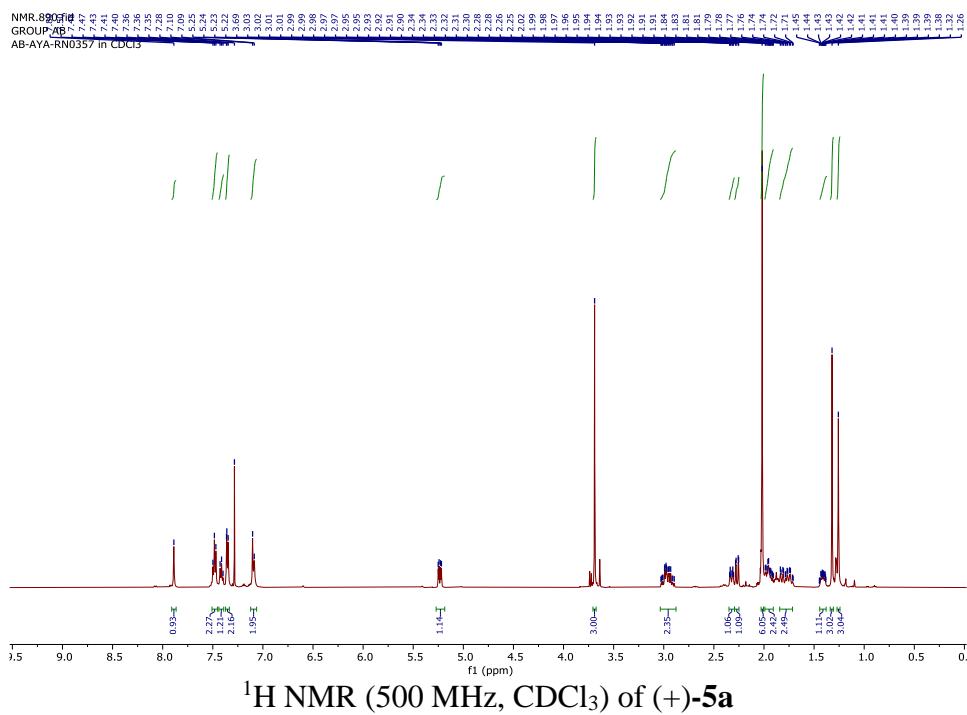
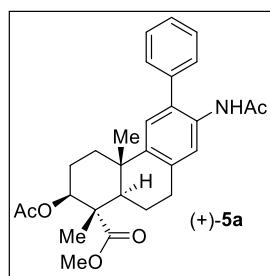


¹H NMR (500 MHz, CDCl₃) of (+)-5

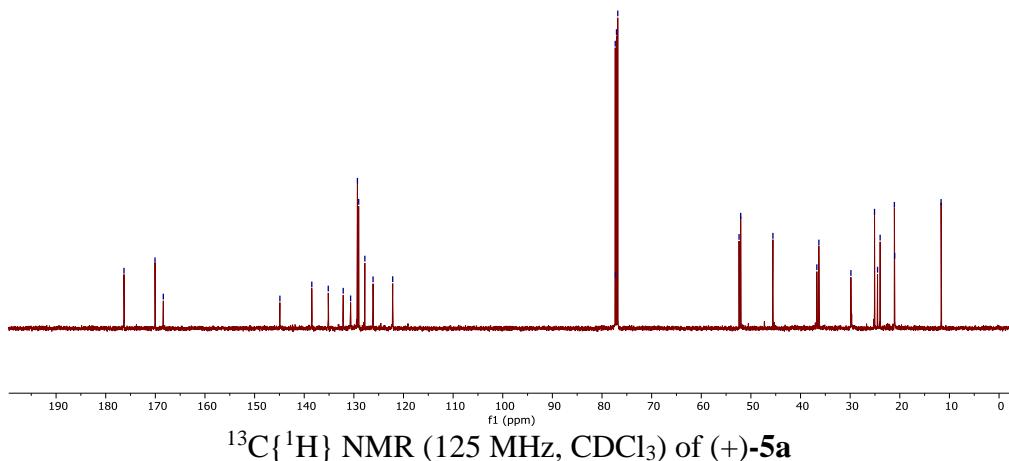
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GROUP AB
AB-AYA-RN0359 in CDCl₃

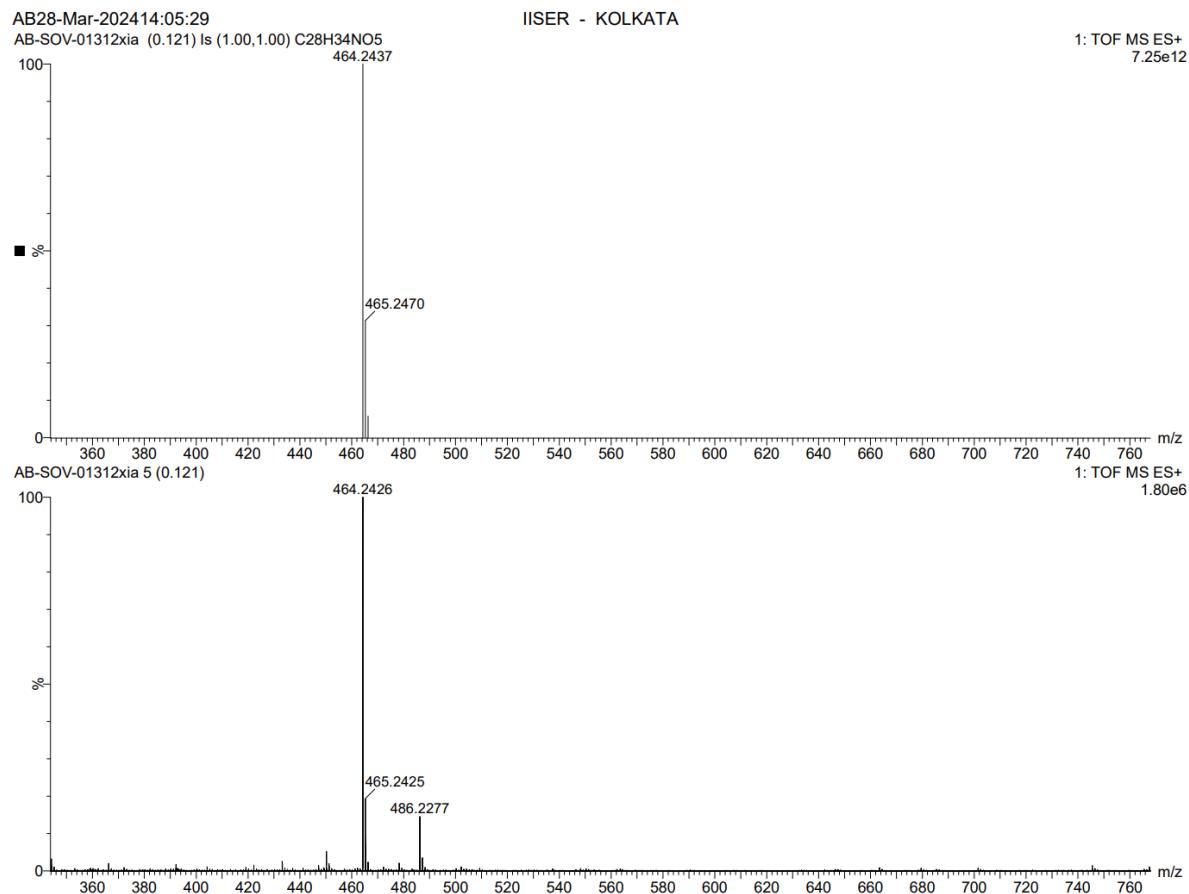


¹³C{¹H} NMR (125 MHz, CDCl₃) of (+)-5

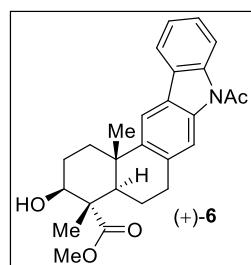


NMR.891.fid
GROUP AB
AB-AYA-RN0357 in CDCl₃

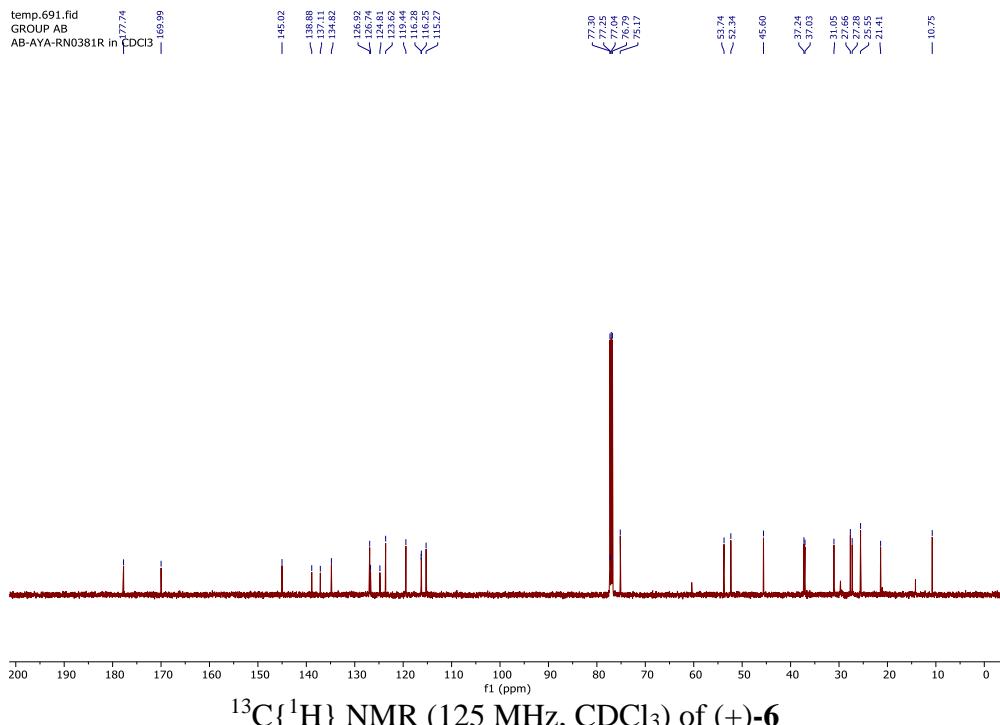
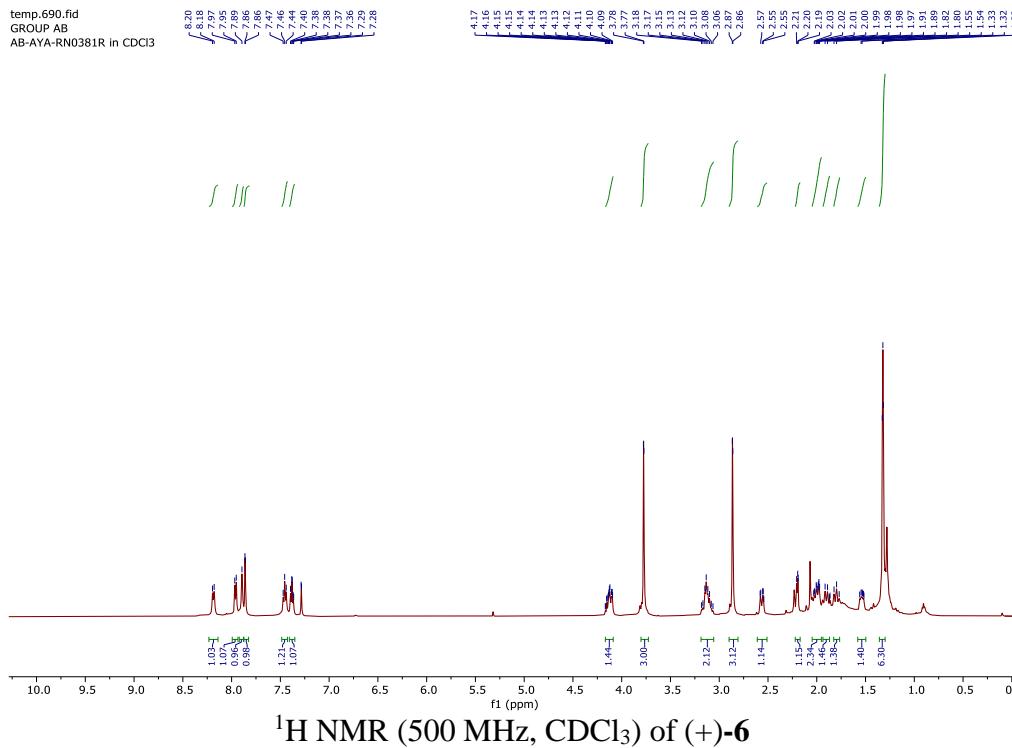




HRMS data of (+)-5a



temp.690.fid
GROUP AB
AB-AYA-RN0381R in CDCl₃



Display Report

Analysis Info

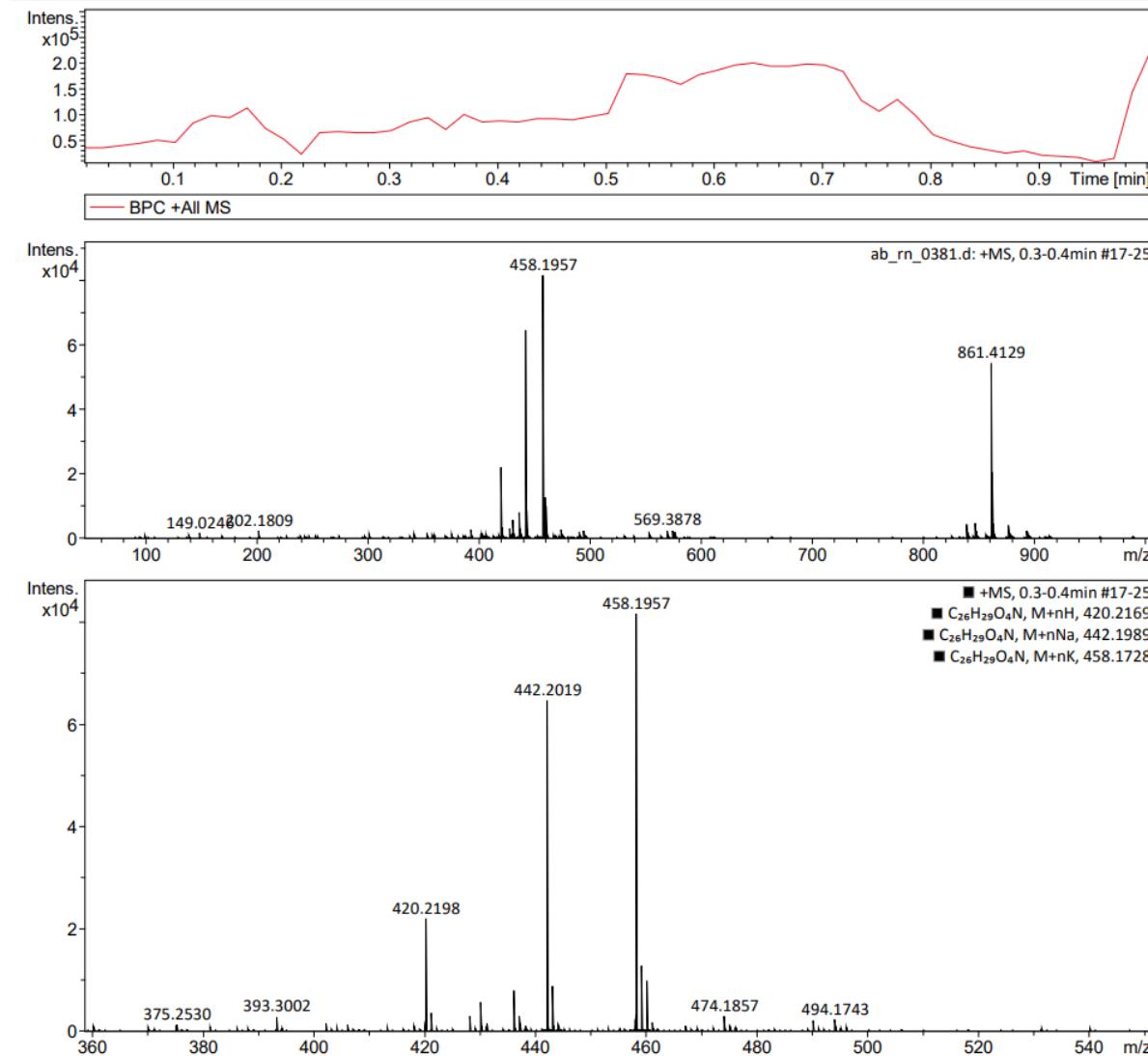
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Sample Name ab_rn_0381
Comment signal dropping issue

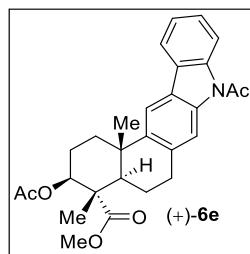
Acquisition Date 3/7/2022 11:57:33 AM

Operator IISER Kolkata
Instrument maXis impact 8282001.00127

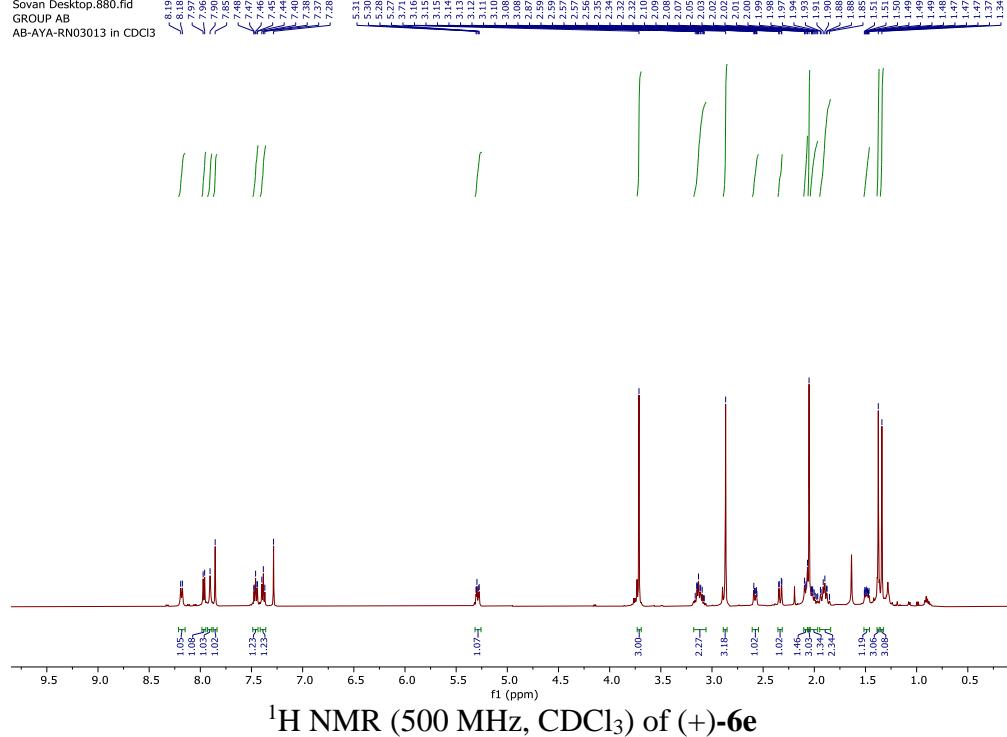
Acquisition Parameter

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Scan End	1000 m/z	Set Charging Voltage	2000 V	Set Divert Valve	Source
		Set Corona	0 nA	Set APCI Heater	0 °C

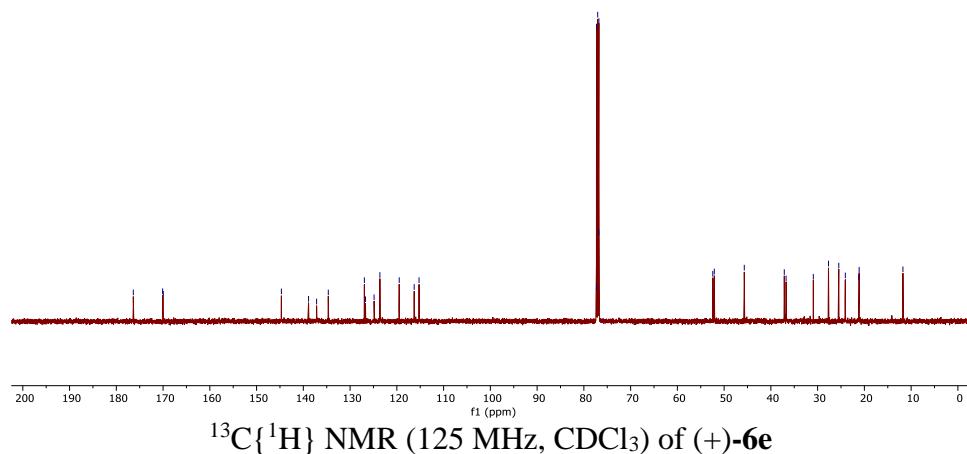


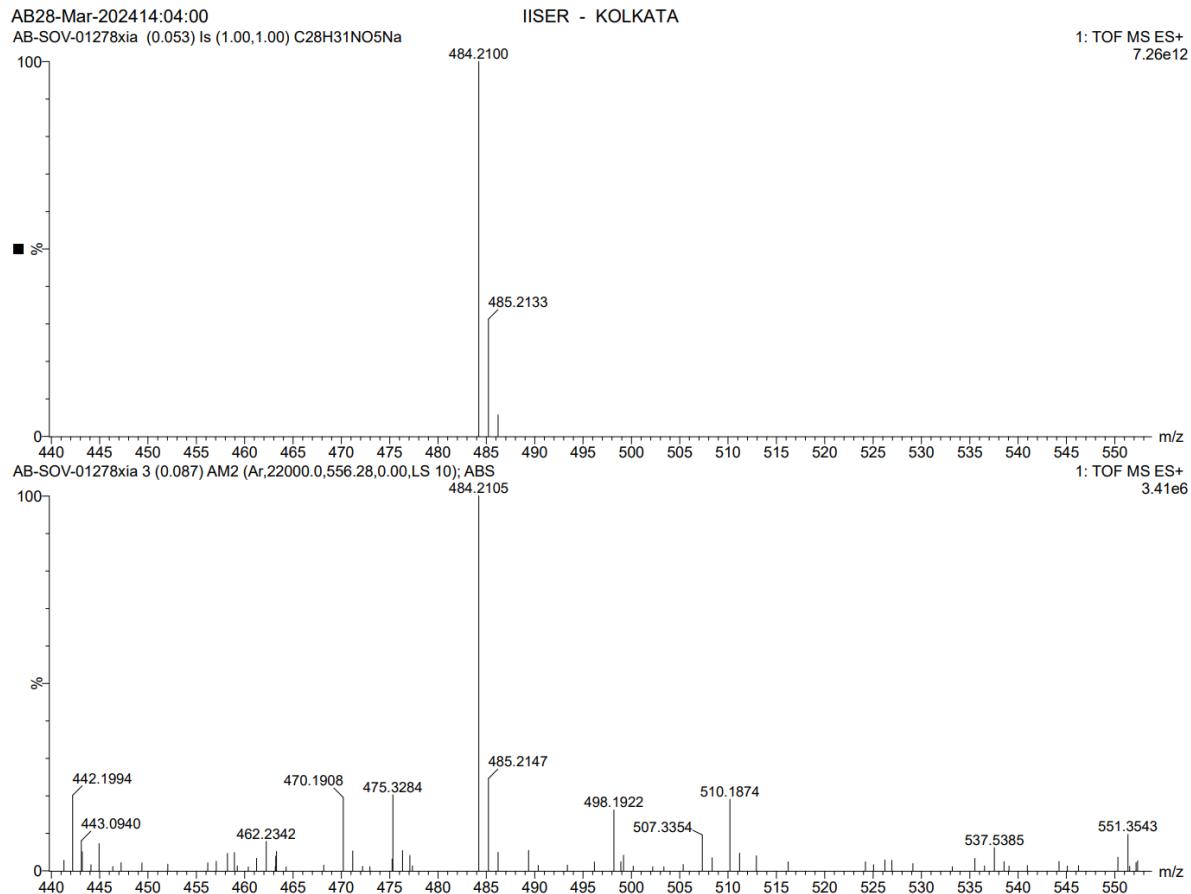


Sovan Desktop.880.fid
GROUP AB
AB-AYA-RN03013 in CDCl₃

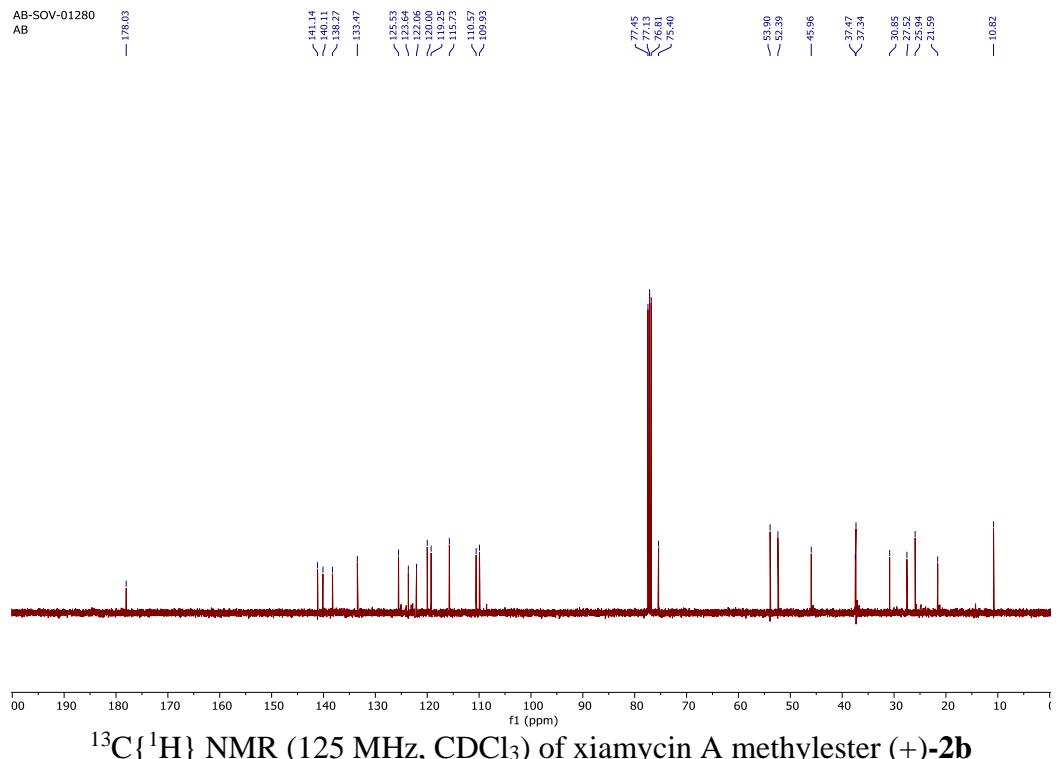
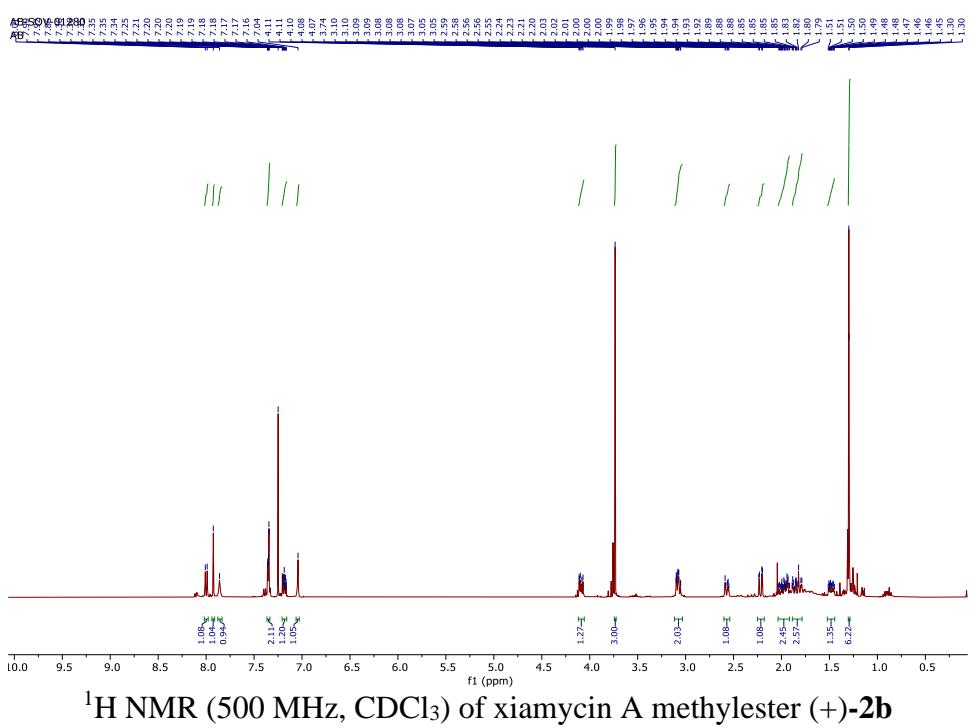
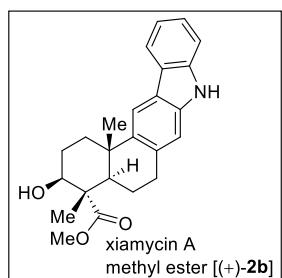


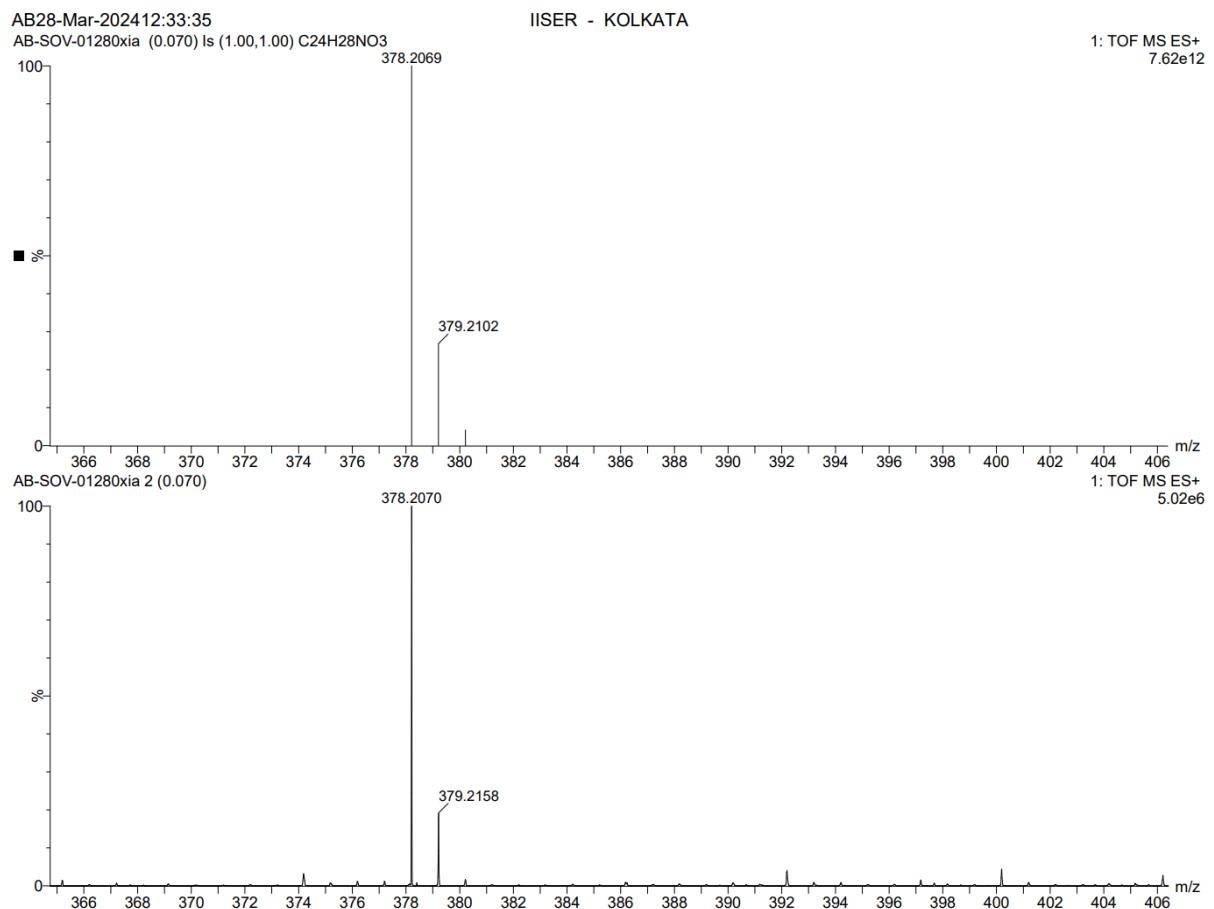
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AB-AYA-RN03013 in CDCl₃



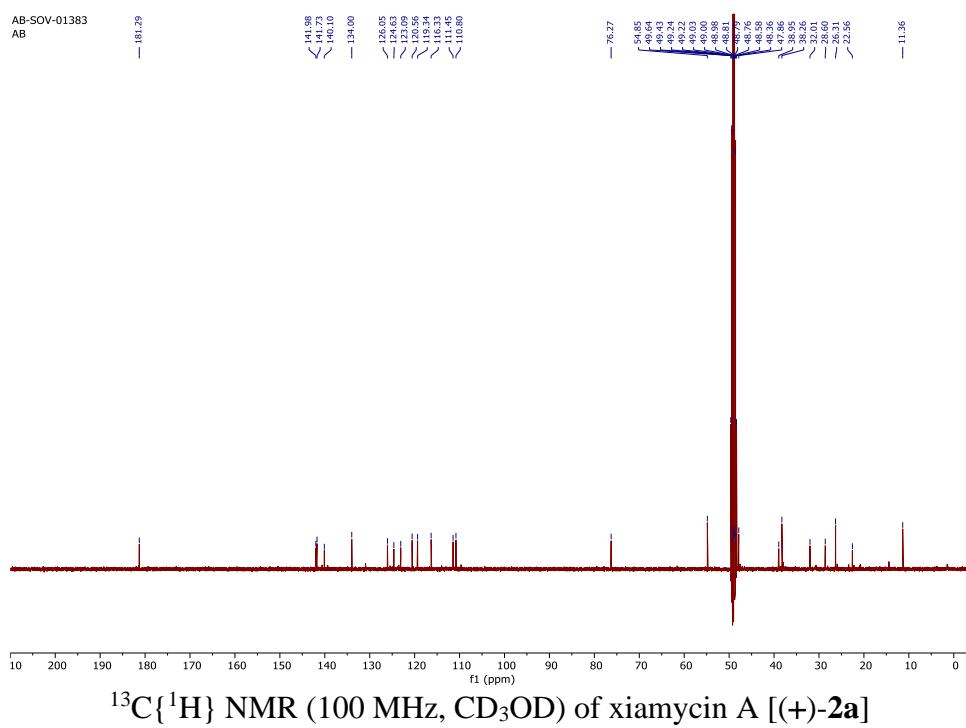
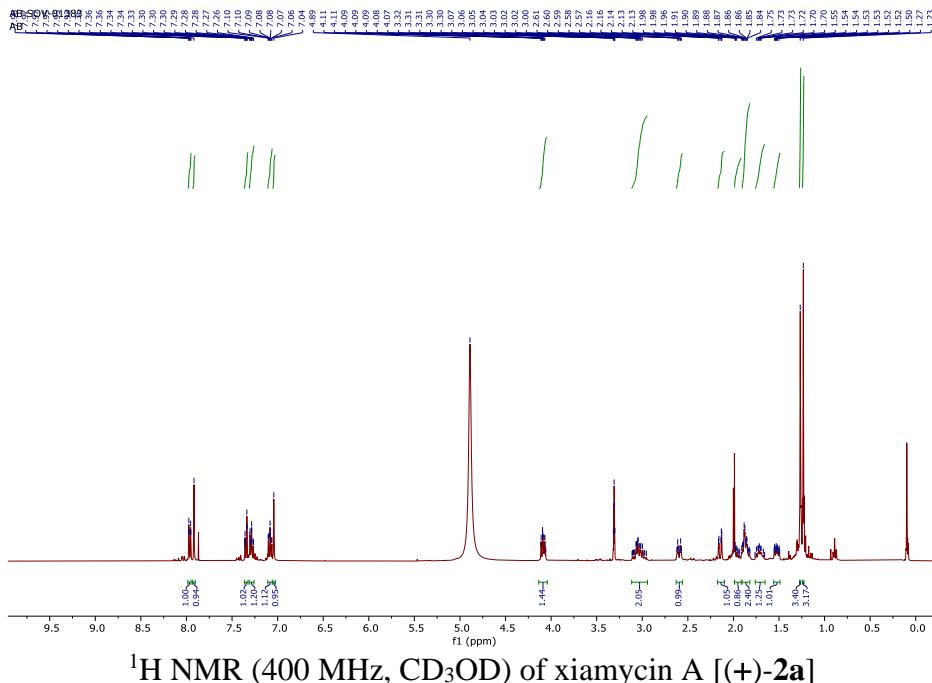
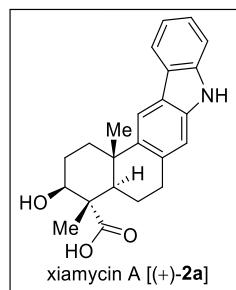


HRMS data of (+)-6e





HRMS data of xiamycin A methylester (+)-**2b**



Display Report

Analysis Info

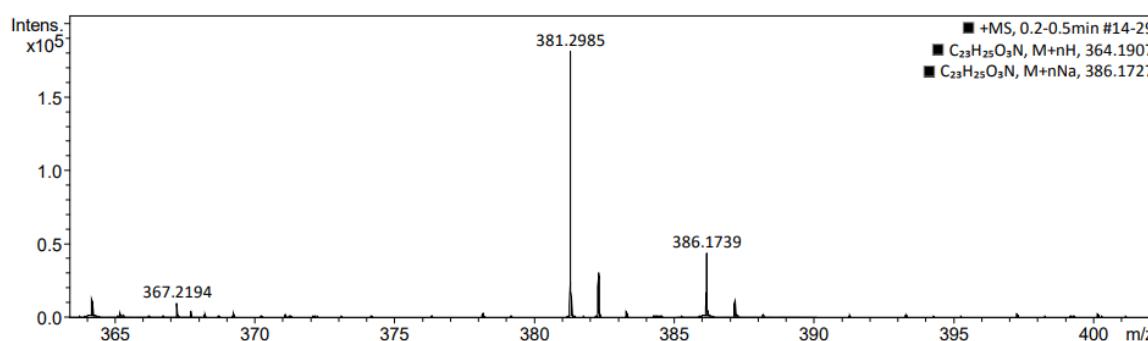
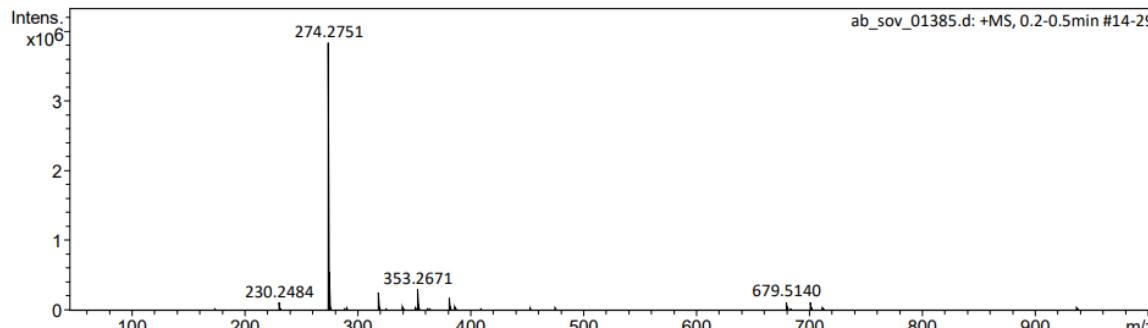
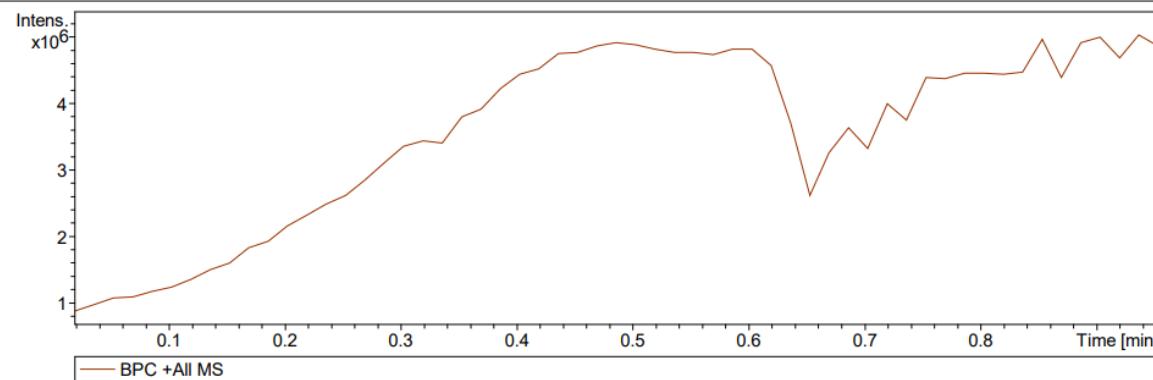
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Comment

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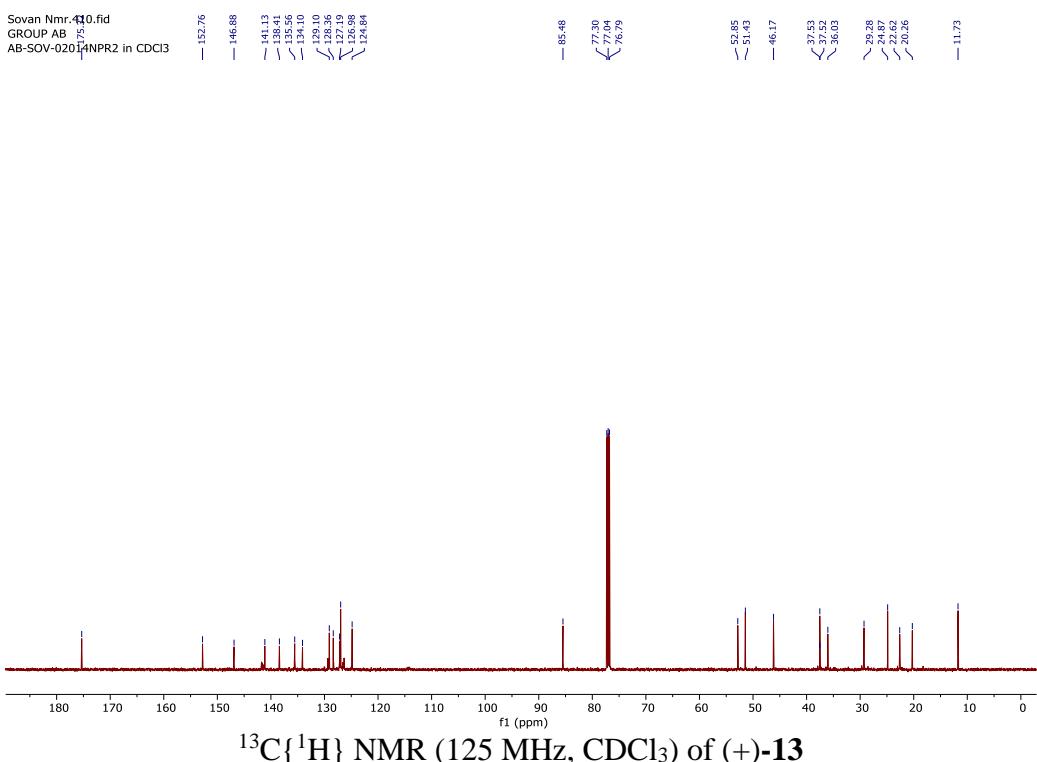
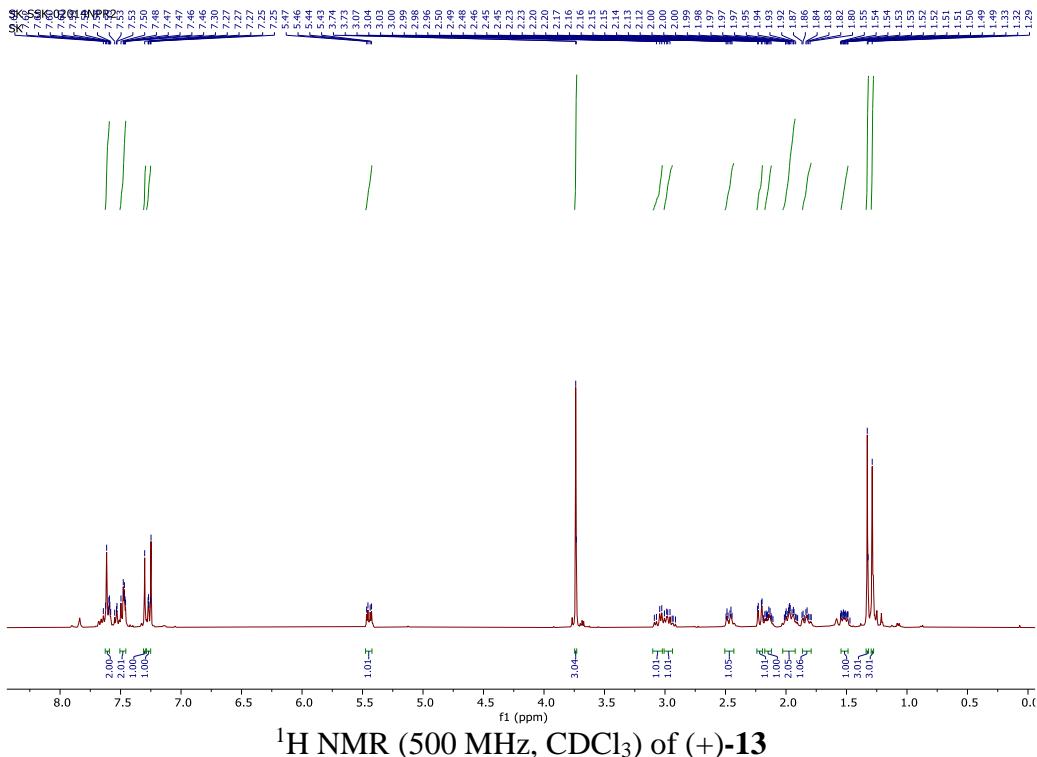
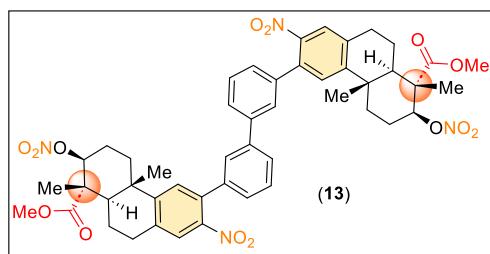
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

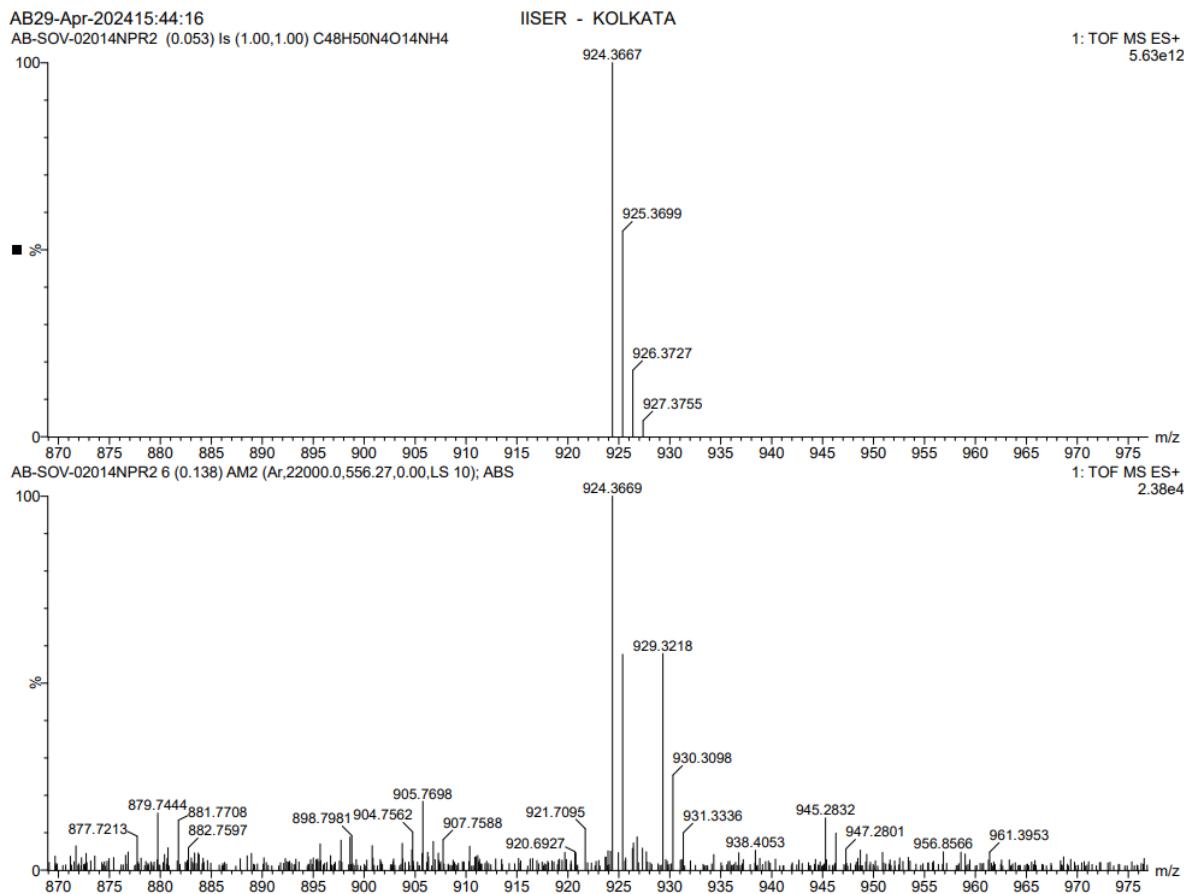
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		Set Corona	0 nA	Set APCI Heater	0 °C

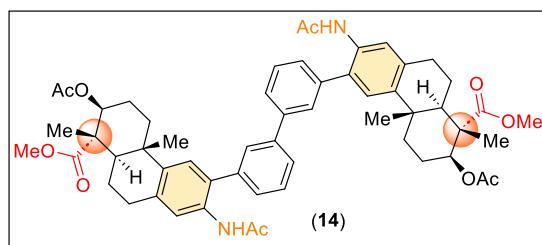


HRMS data of xiamycin A [(+)-2a]

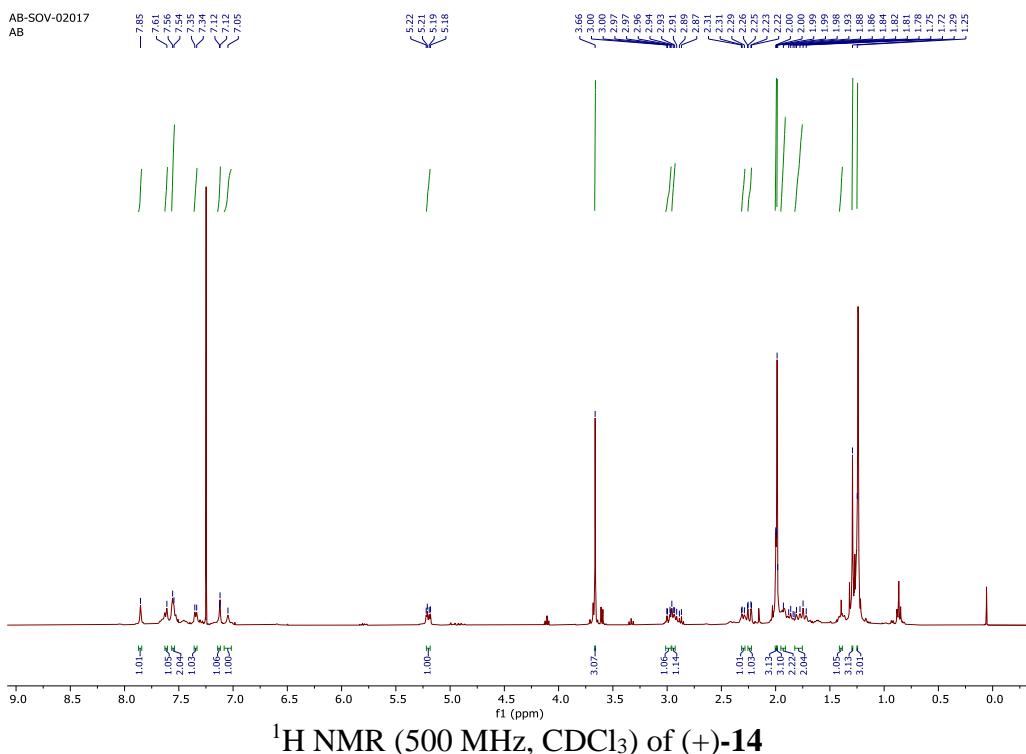




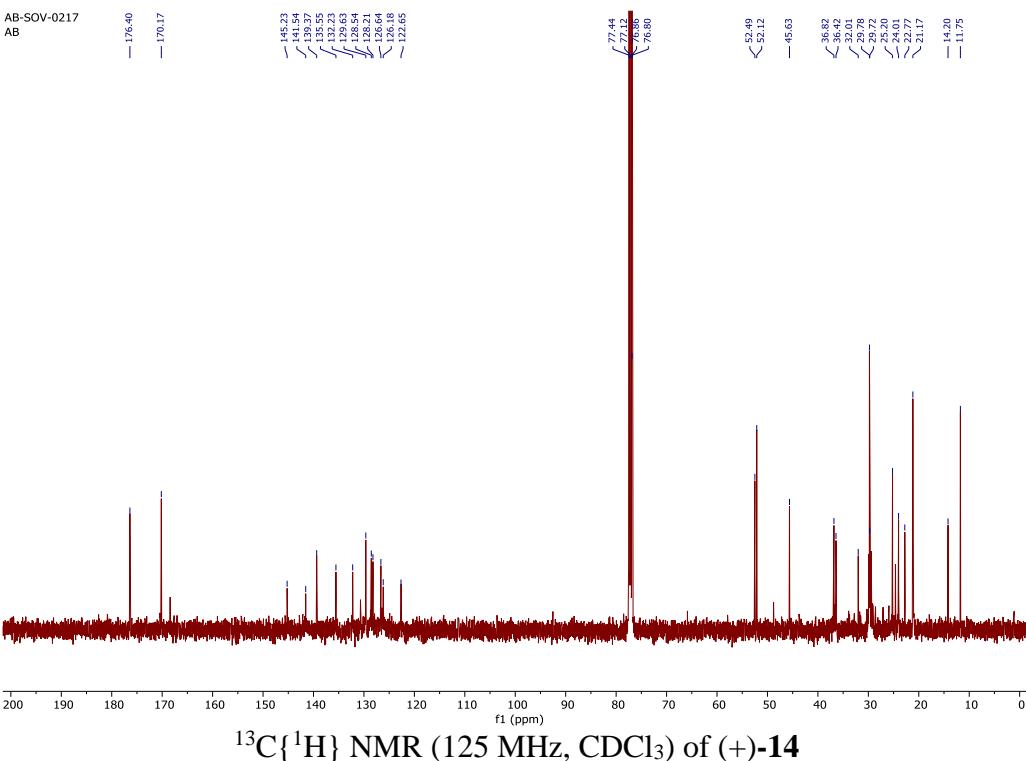
HRMS data of (+)-13

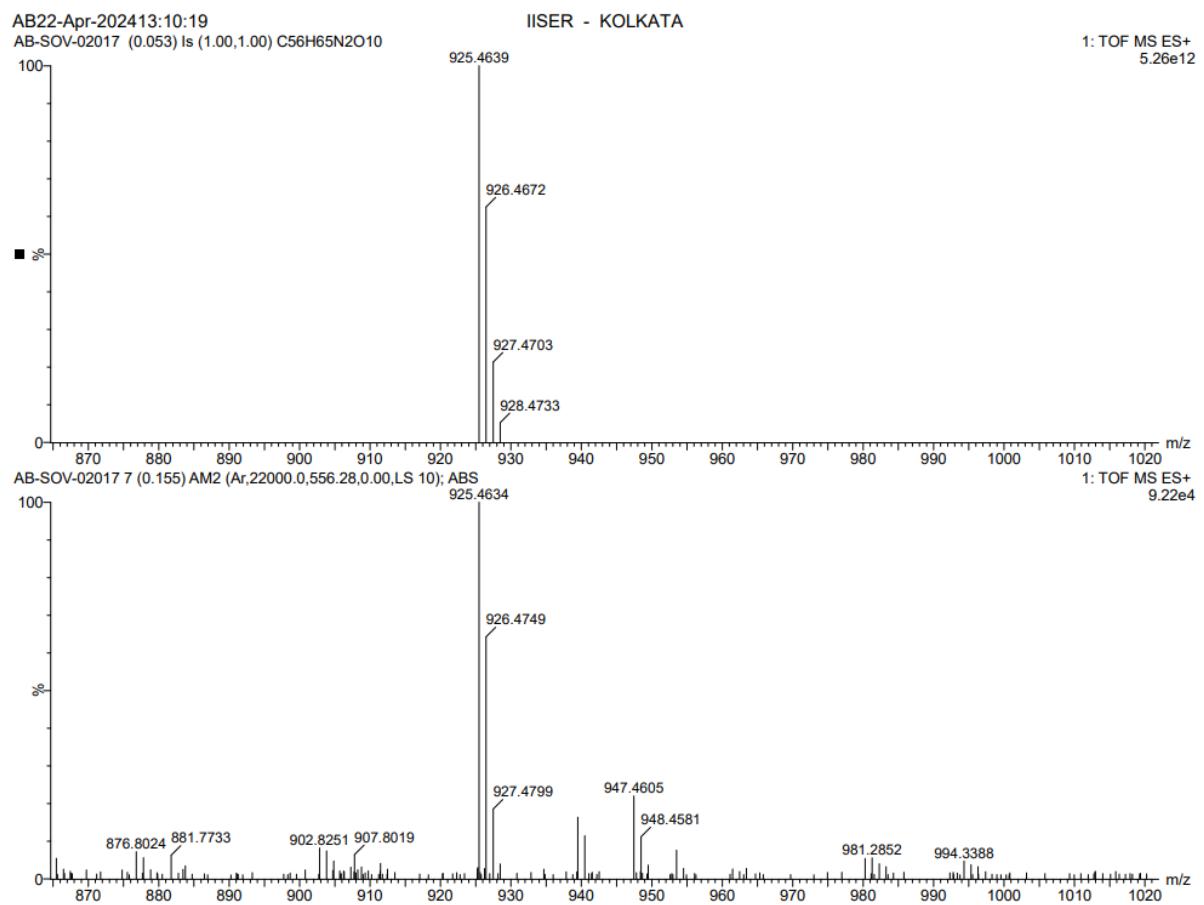


AB-SOV-02017
AB

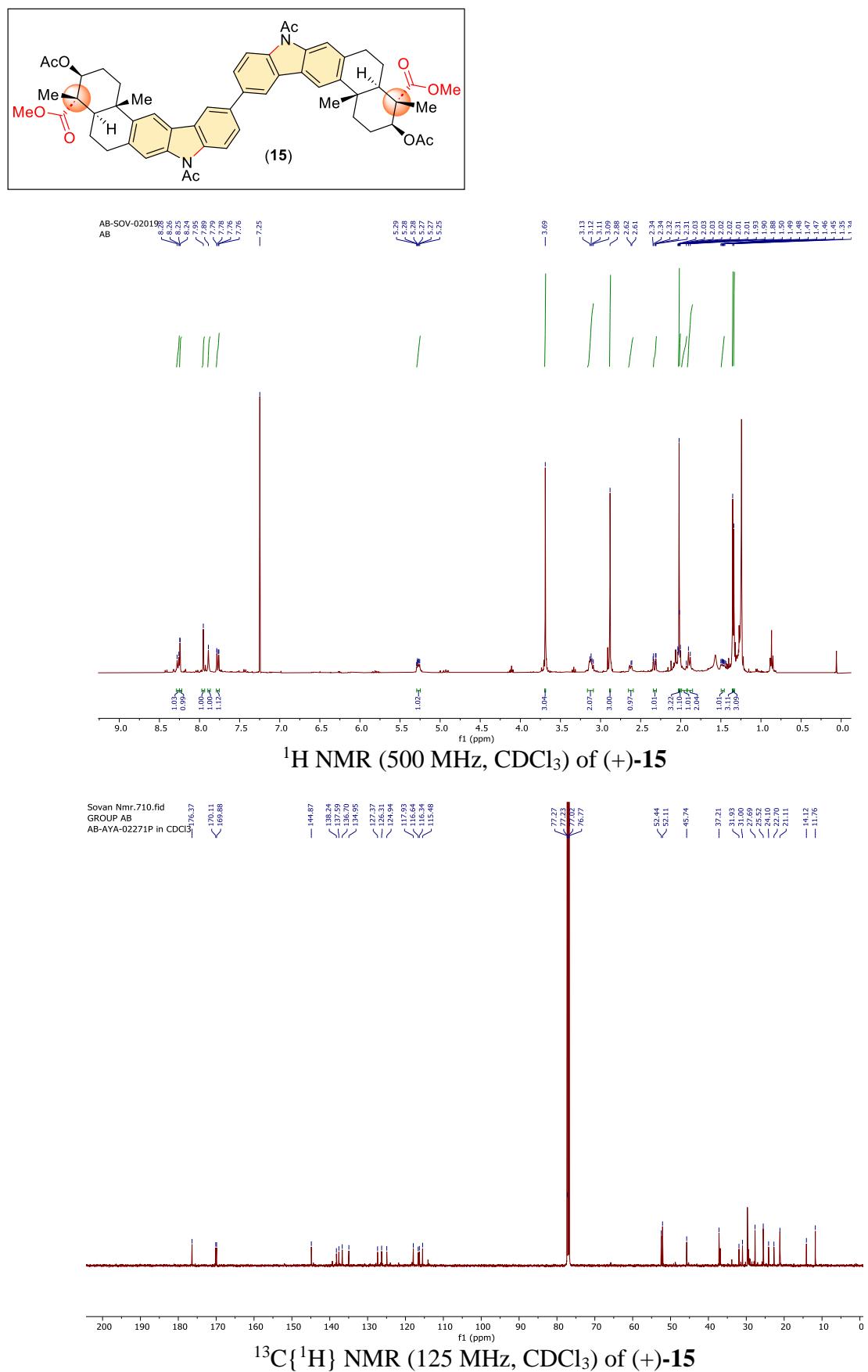


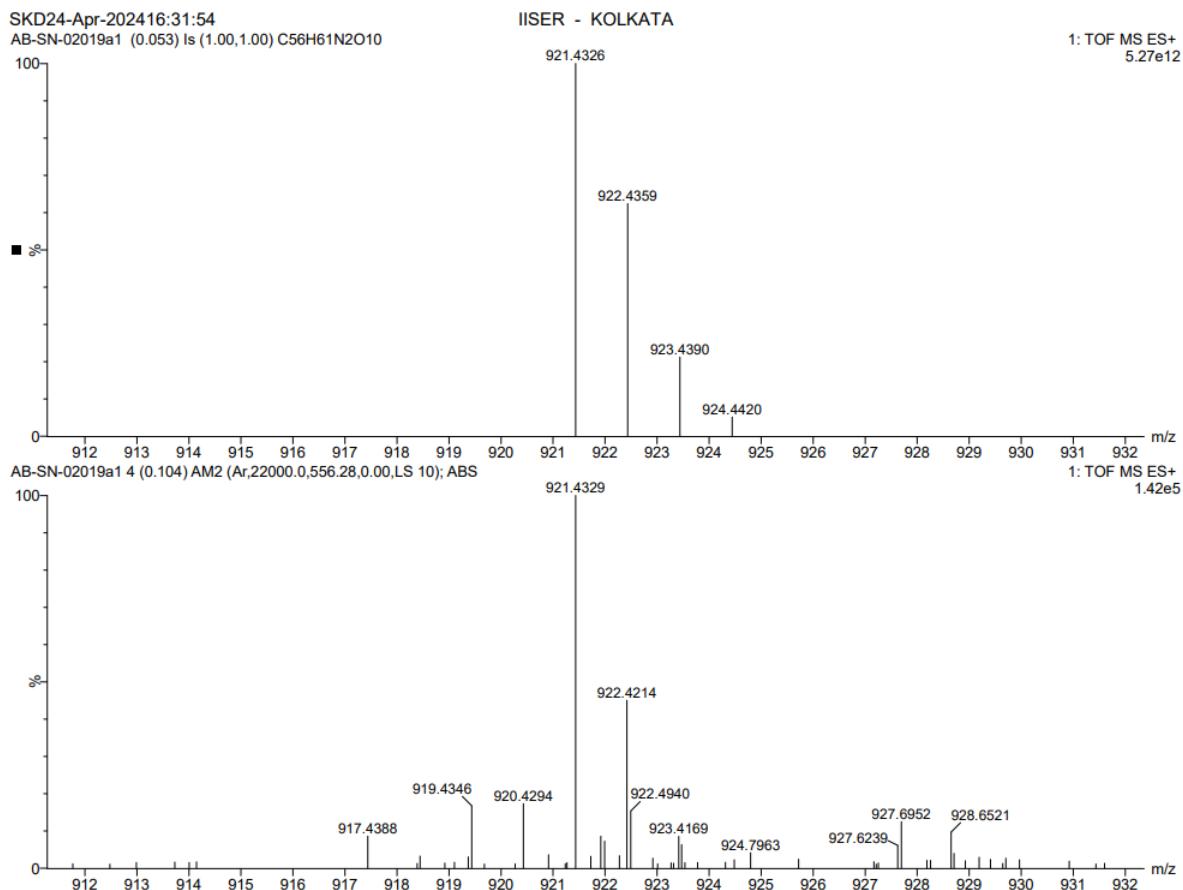
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AB



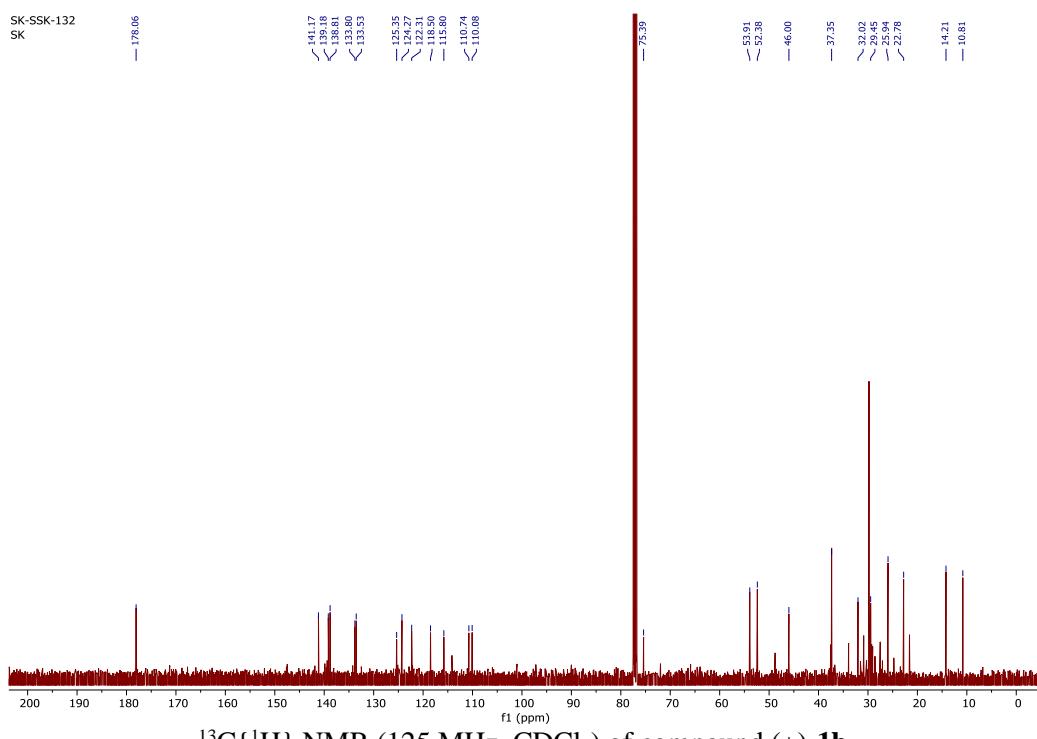
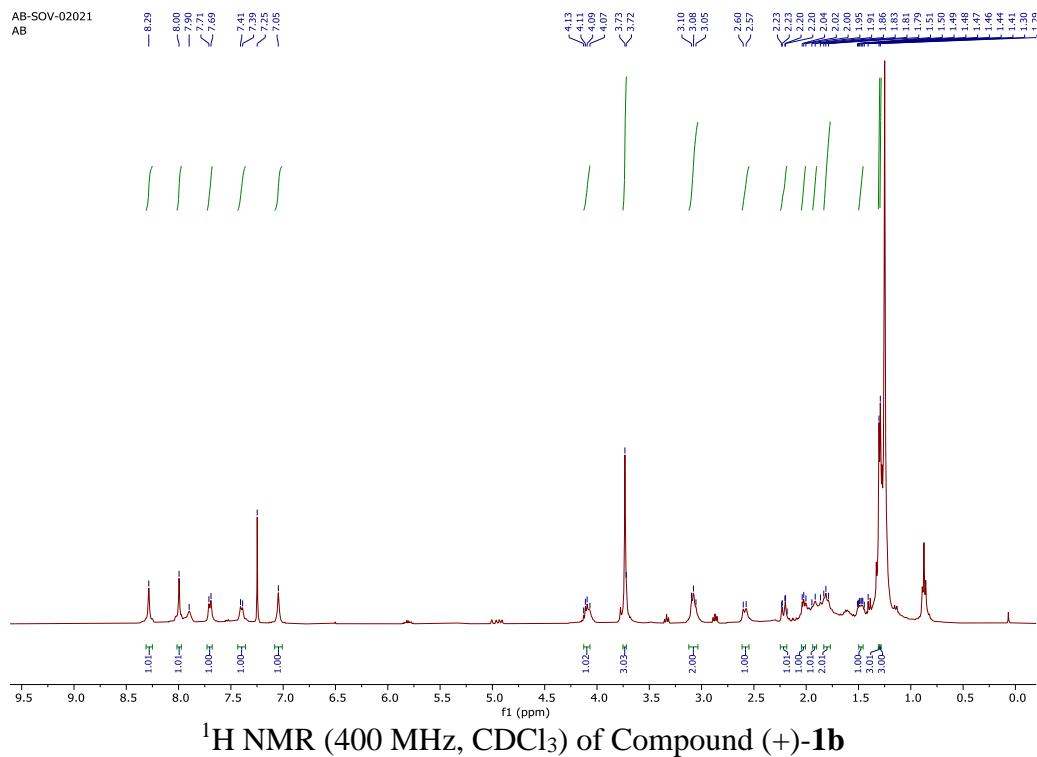
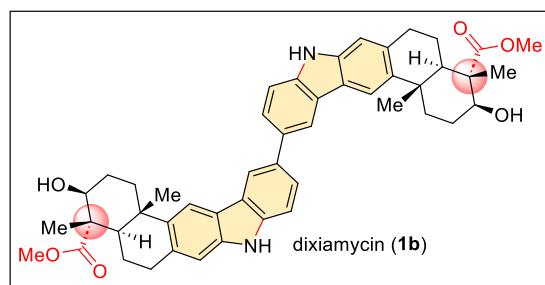


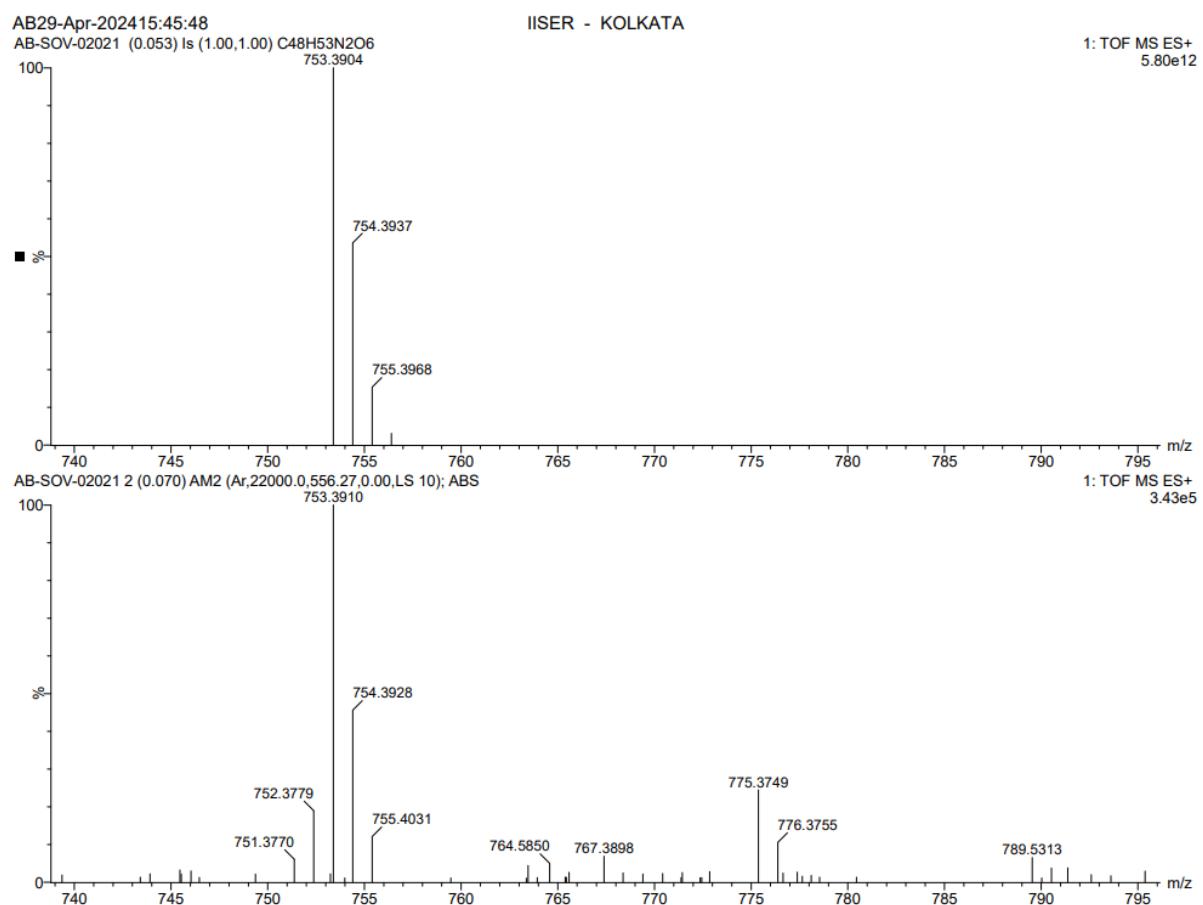
HRMS data of (+)-14



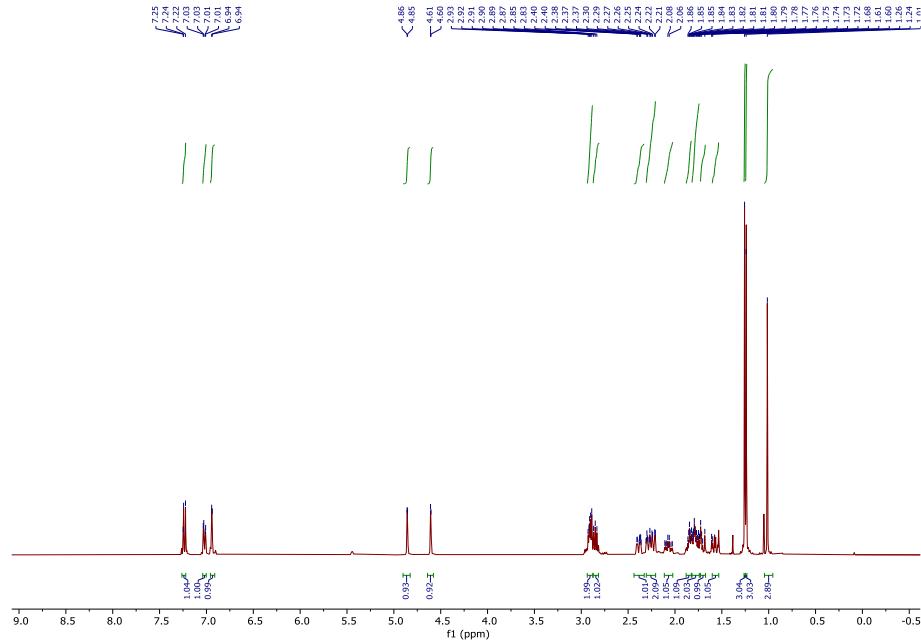
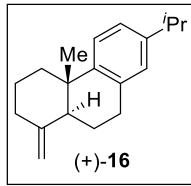


HRMS data of (+)-**15**

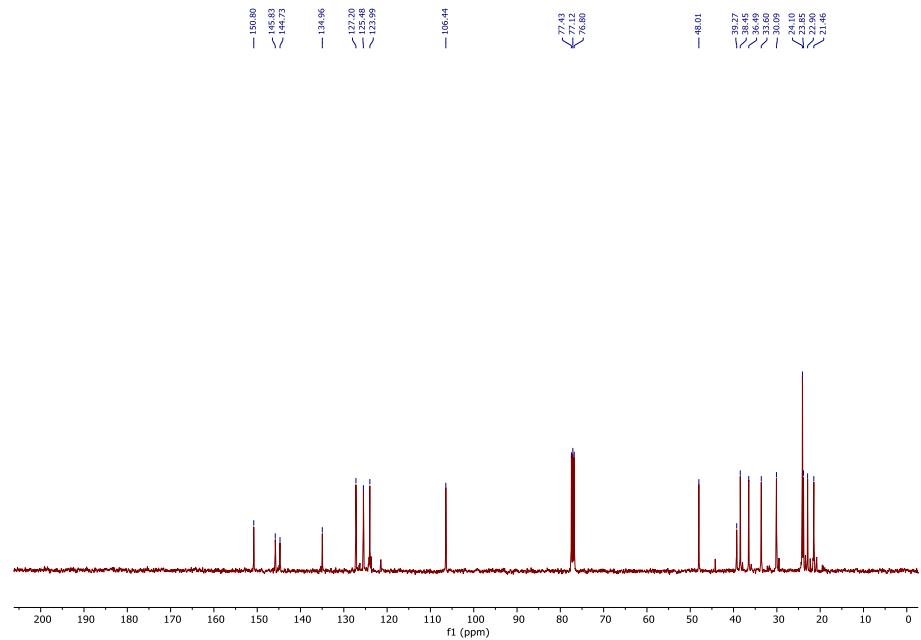




HRMS data of (+)-**1b**



^1H NMR (400 MHz, CDCl_3) of compound (+)-16



$^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound (+)-16

Display Report

Analysis Info

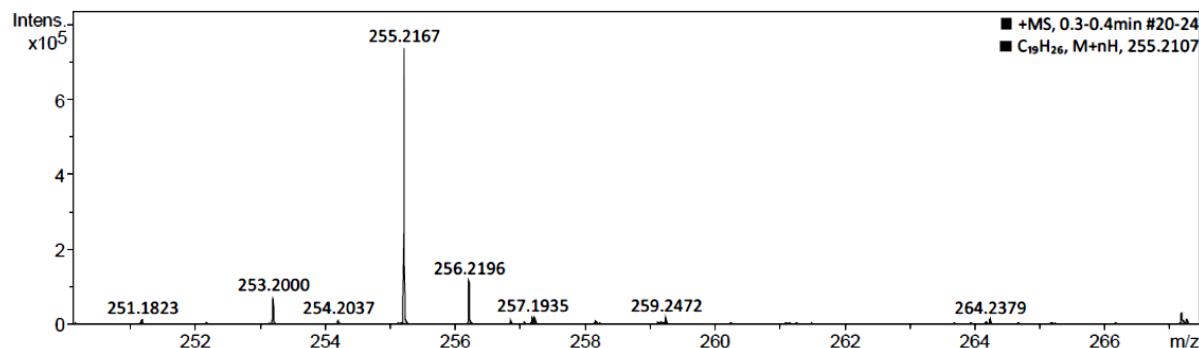
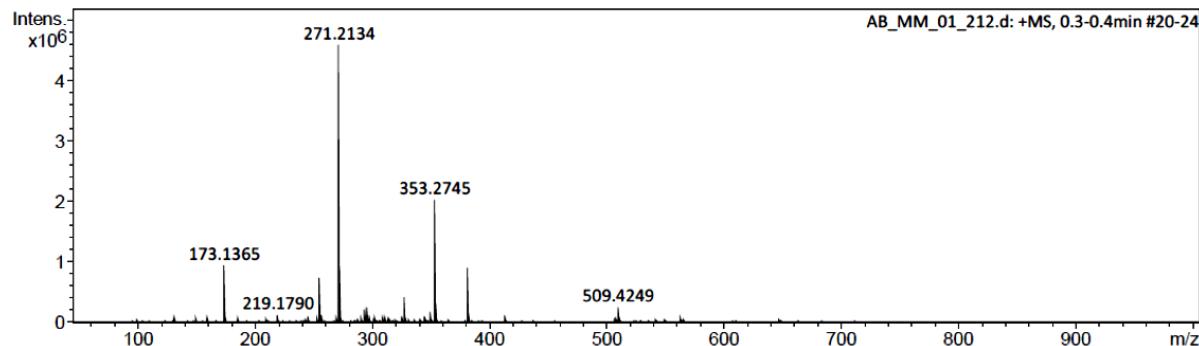
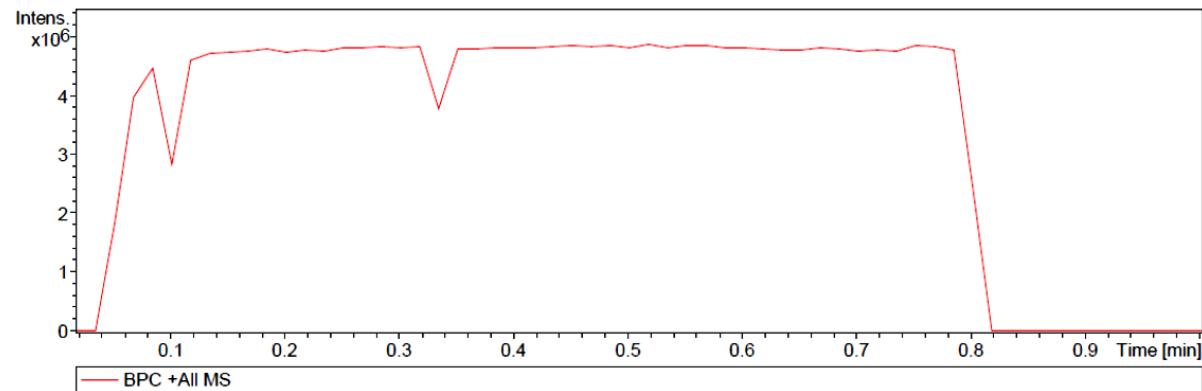
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Method Tune_pos_Standard.m
Sample Name AB_MM_01_212
Comment

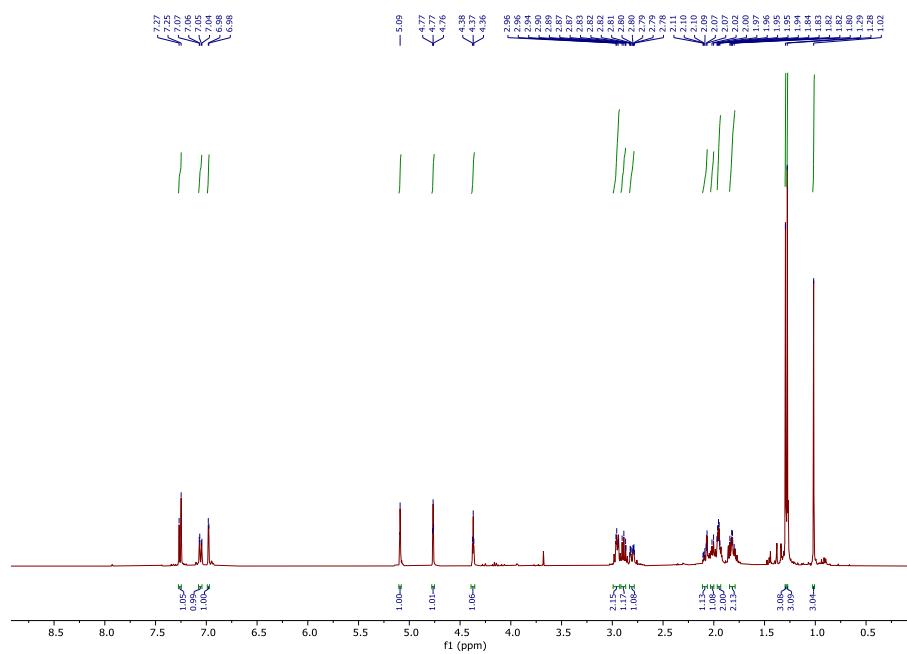
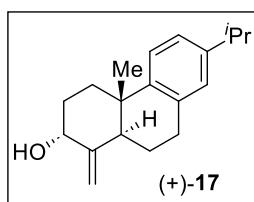
Acquisition Date 12/14/2021 3:02:21 PM

Operator IISER Kolkata
Instrument maXis impact 8282001.00127

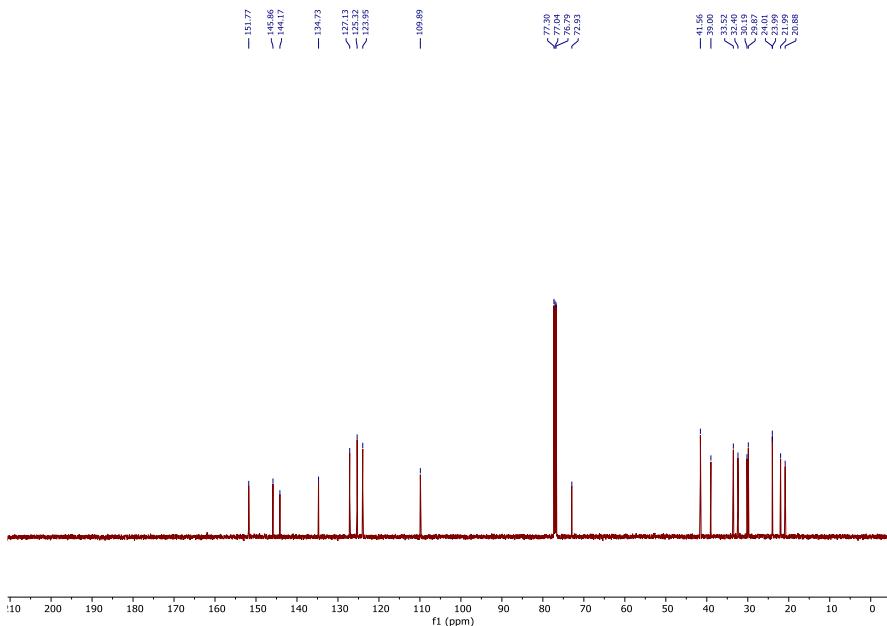
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Scan End	1000 m/z	Set Charging Voltage	2000 V	Set Divert Valve	Source
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^1H NMR (400 MHz, CDCl_3) of compound (+)-17



$^{13}\text{C}\{^1\text{H}\}$ NMR (125 MHz, CDCl_3) of compound (+)-17

Display Report

Analysis Info

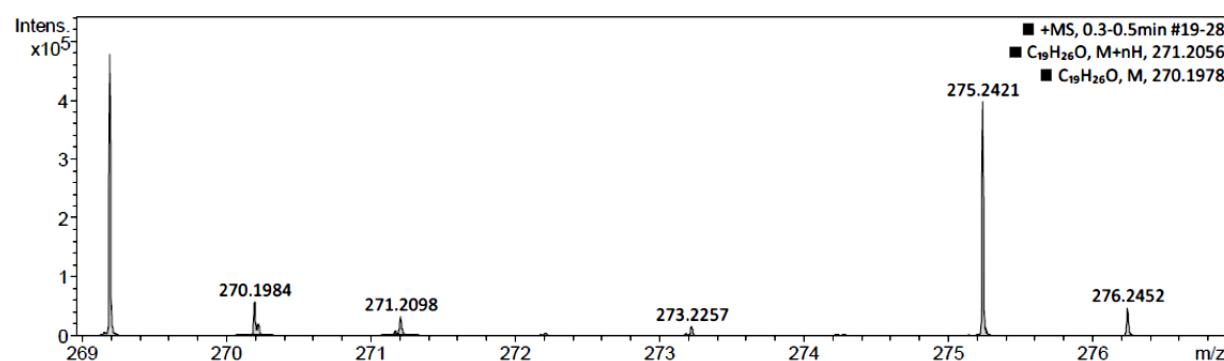
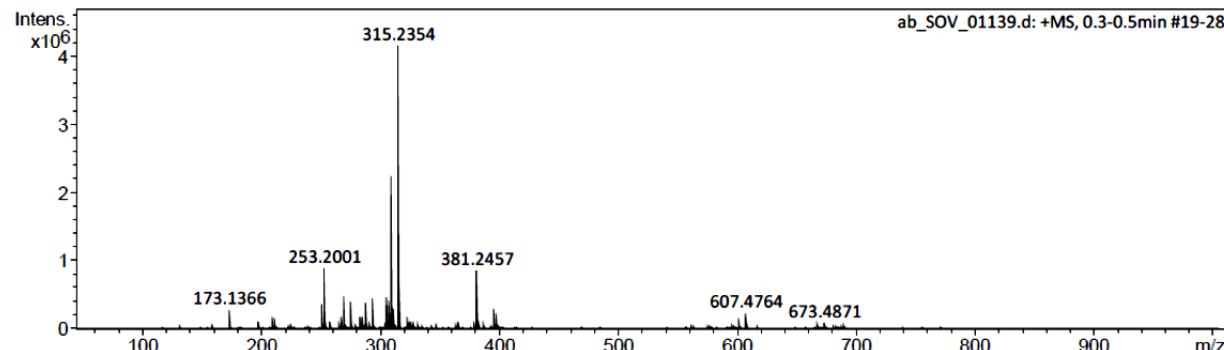
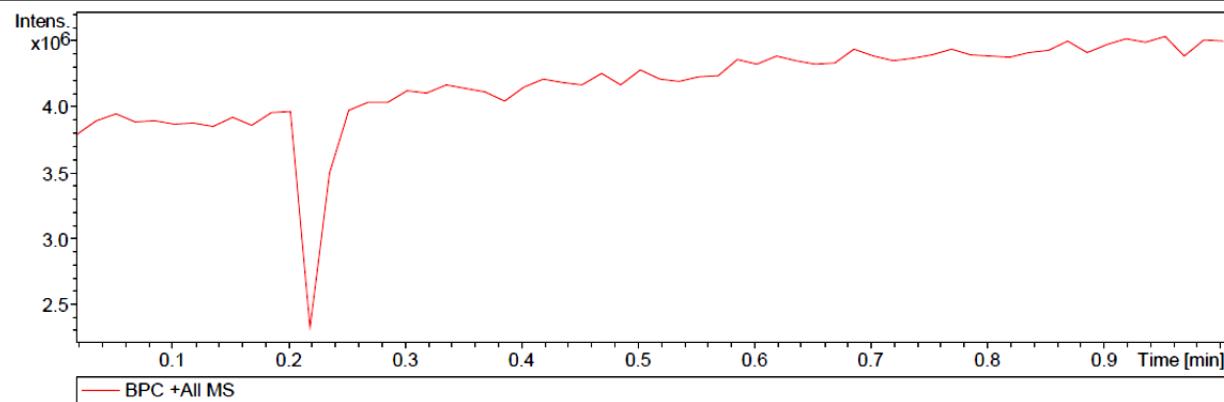
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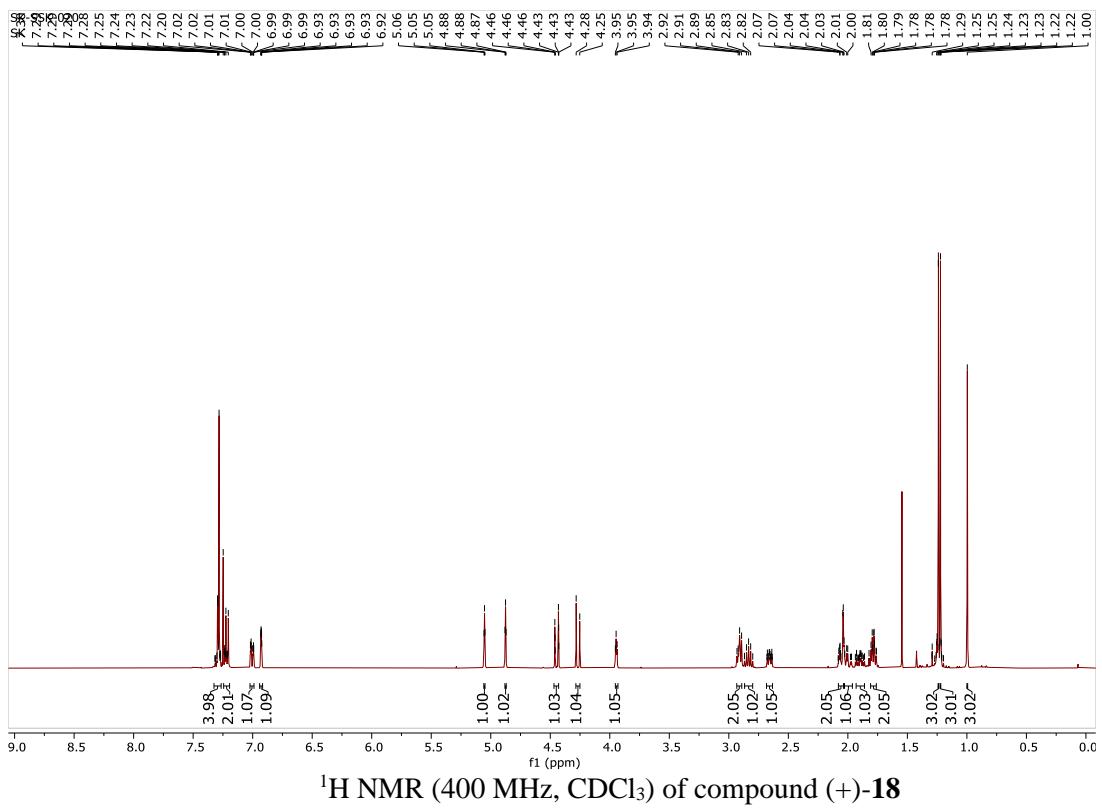
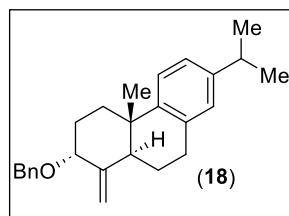
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

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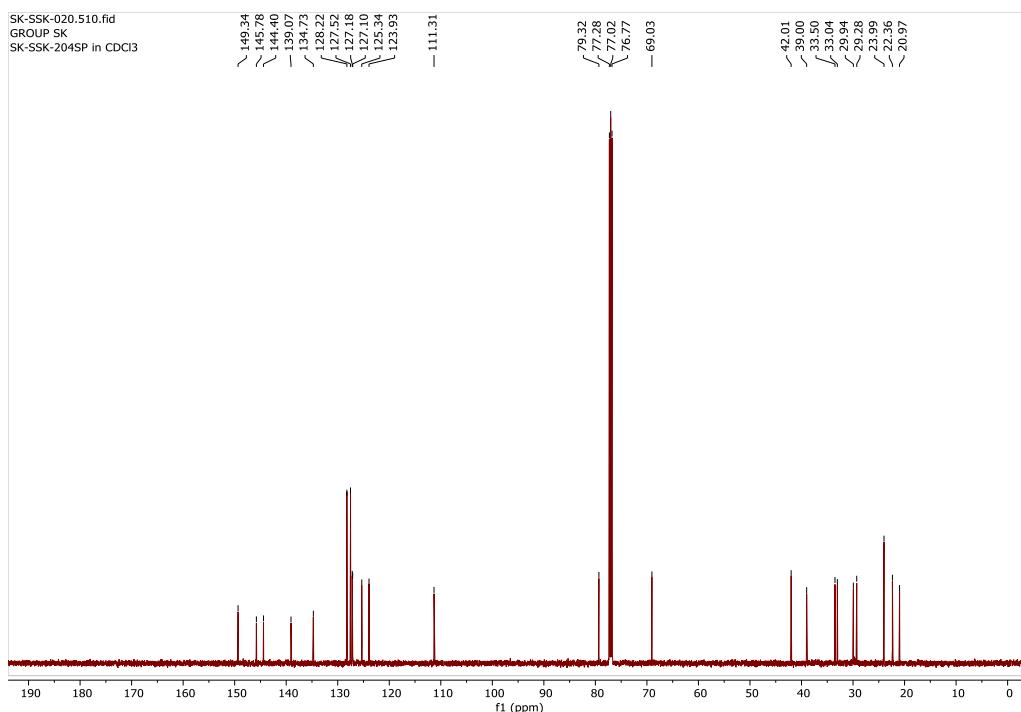
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HRMS data of compound (+)-17



SK-SSK-020.510.fid
GROUP SK
SK-SSK-204SP in CDCl₃



¹³C{¹H} NMR (125 MHz, CDCl₃) of compound (+)-18

Display Report

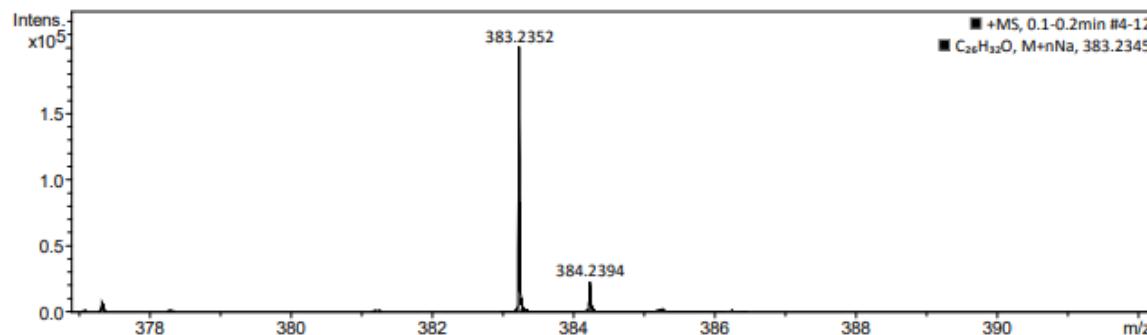
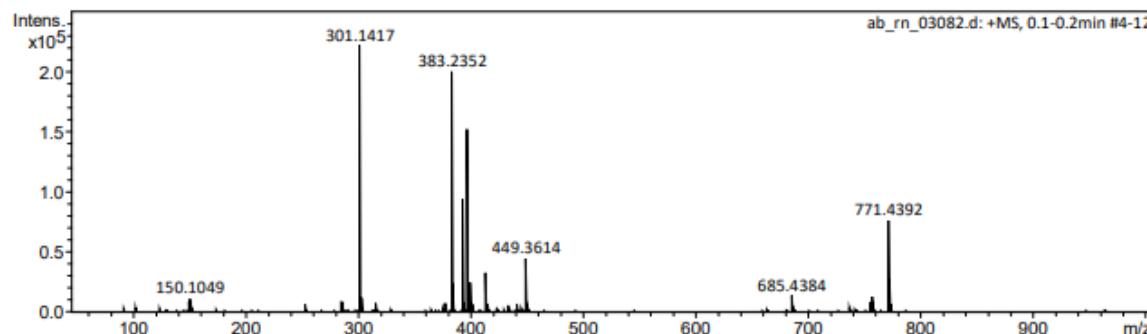
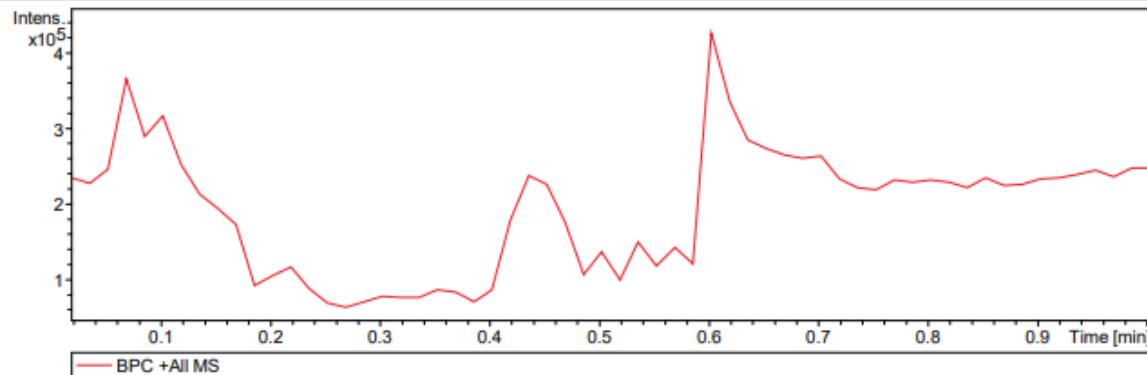
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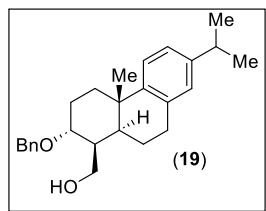
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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

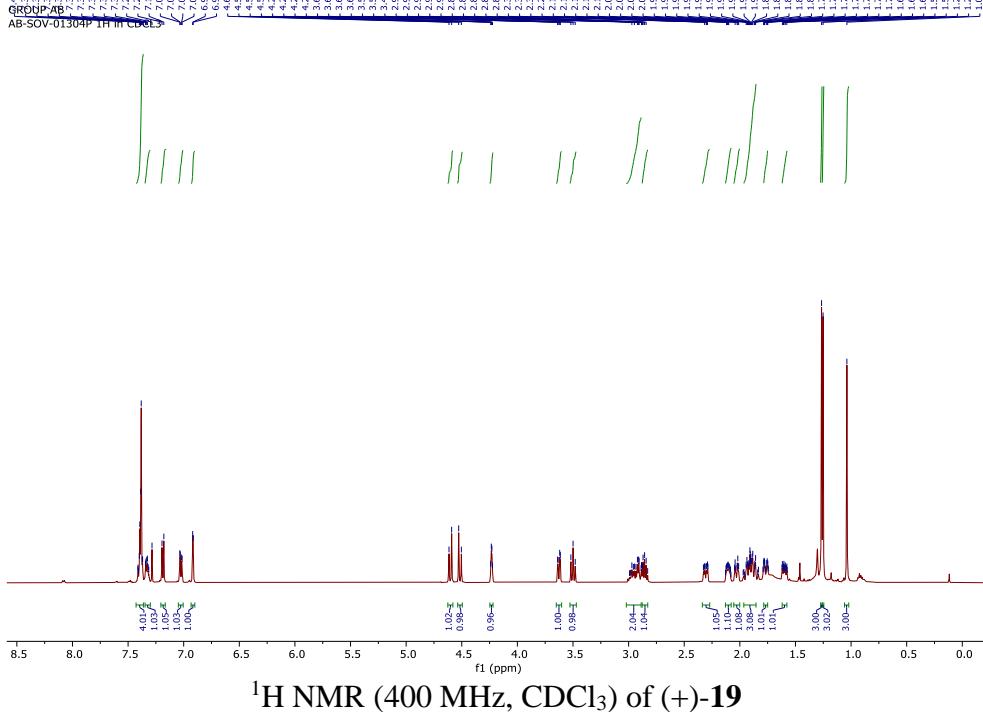
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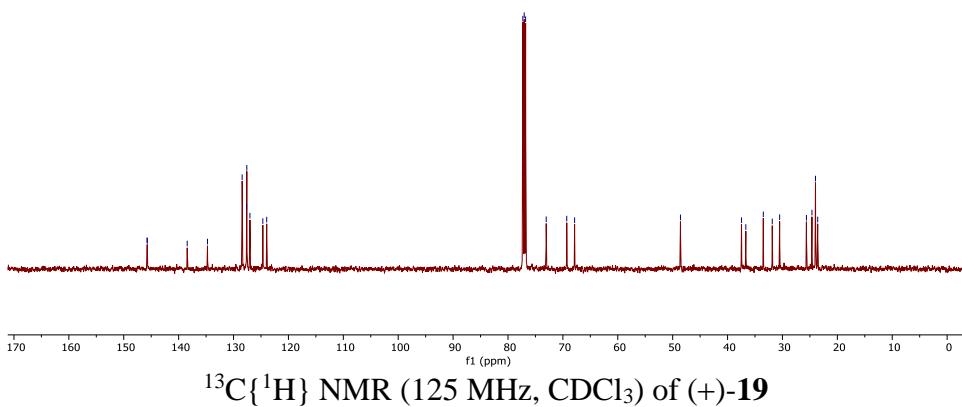




Sovan Nmr.440.fid
GROUP AB
AB-SOV-01304P 1H in CDCl₃



Sovan Nmr.440.fid
GROUP AB
AB-SOV-01304P 13C in CDCl₃



Display Report

Analysis Info

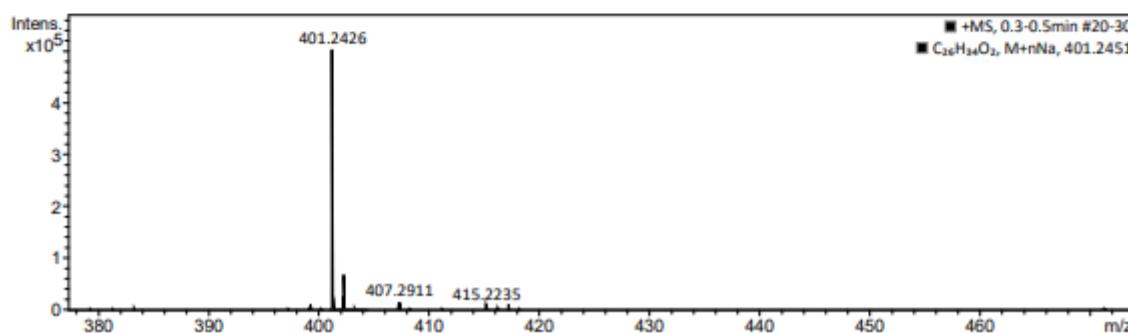
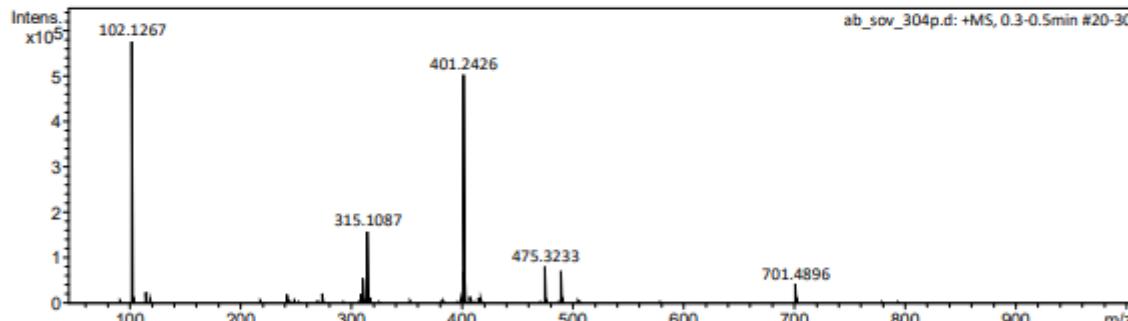
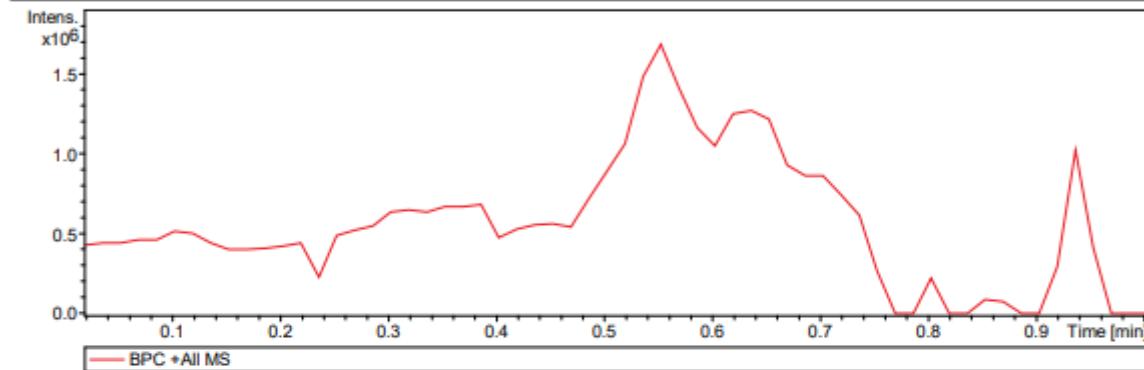
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Sample Name ab Sov_304p
Comment

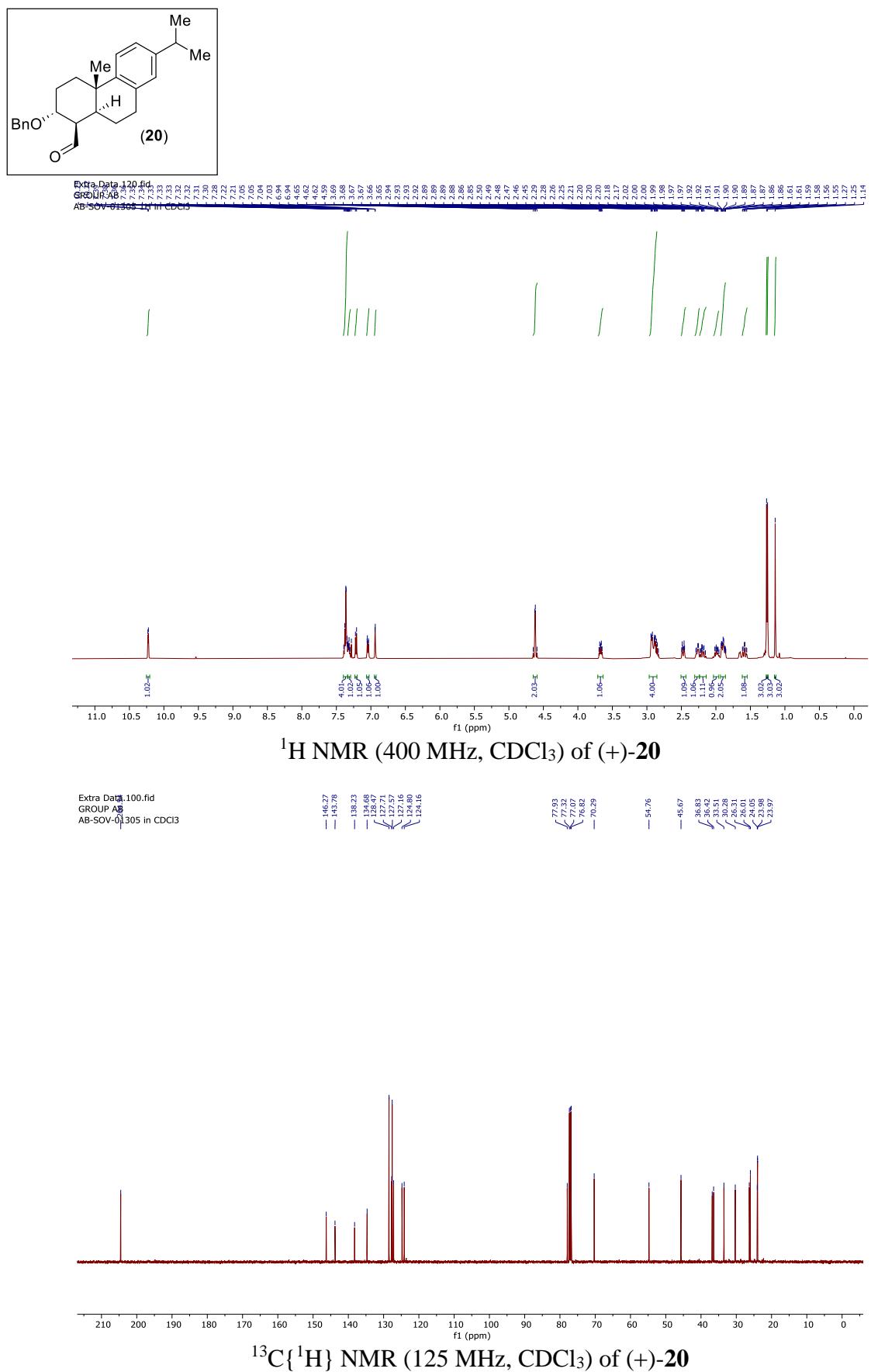
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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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Display Report

Analysis Info

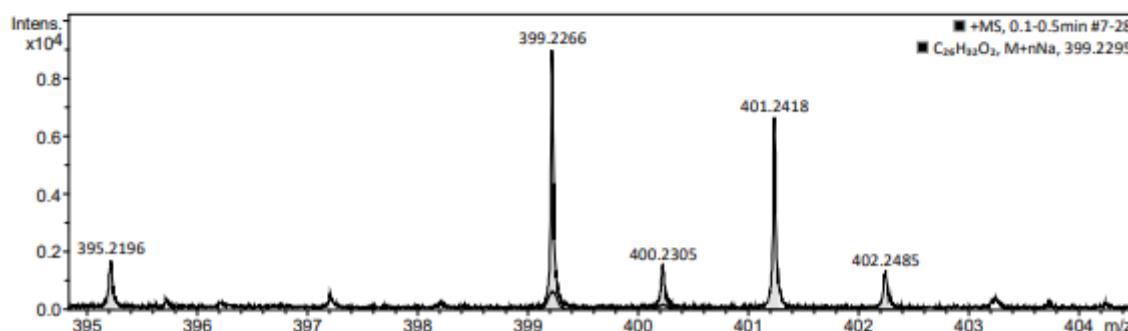
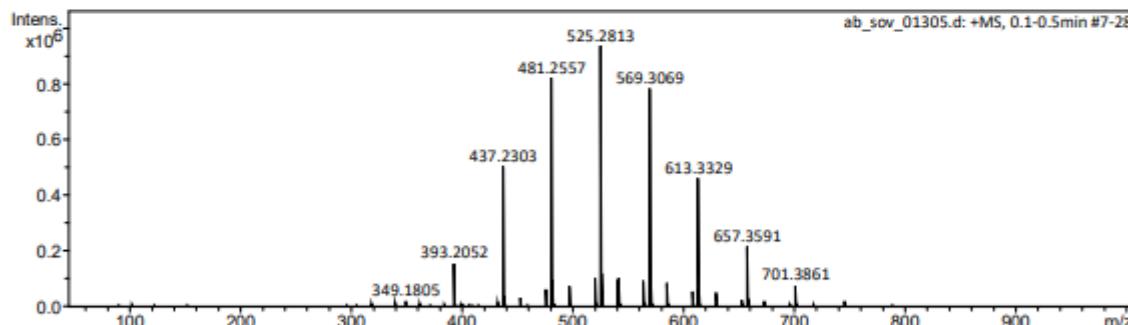
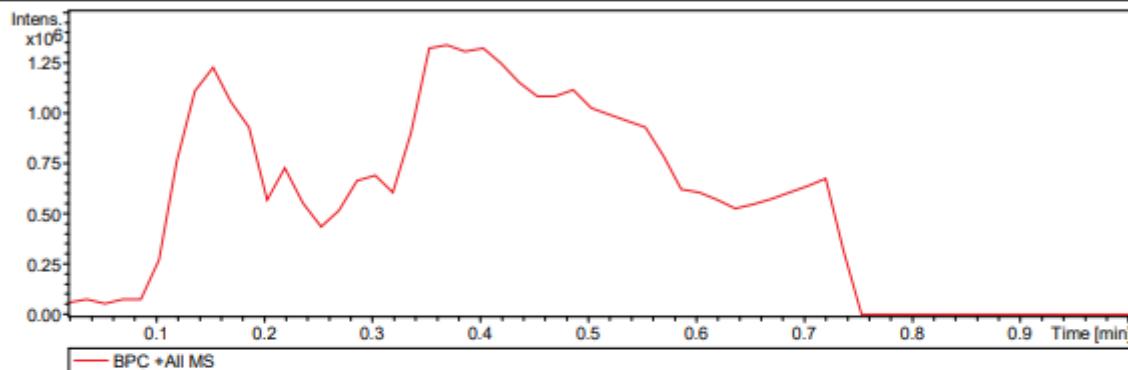
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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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ab Sov_01305.d

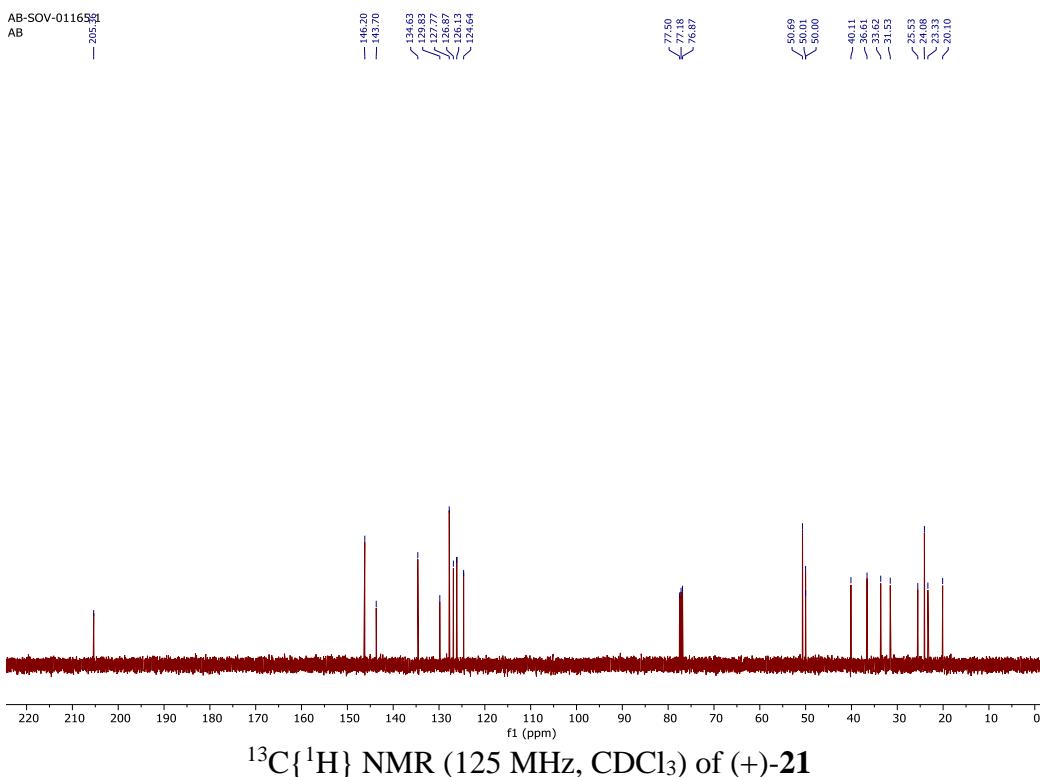
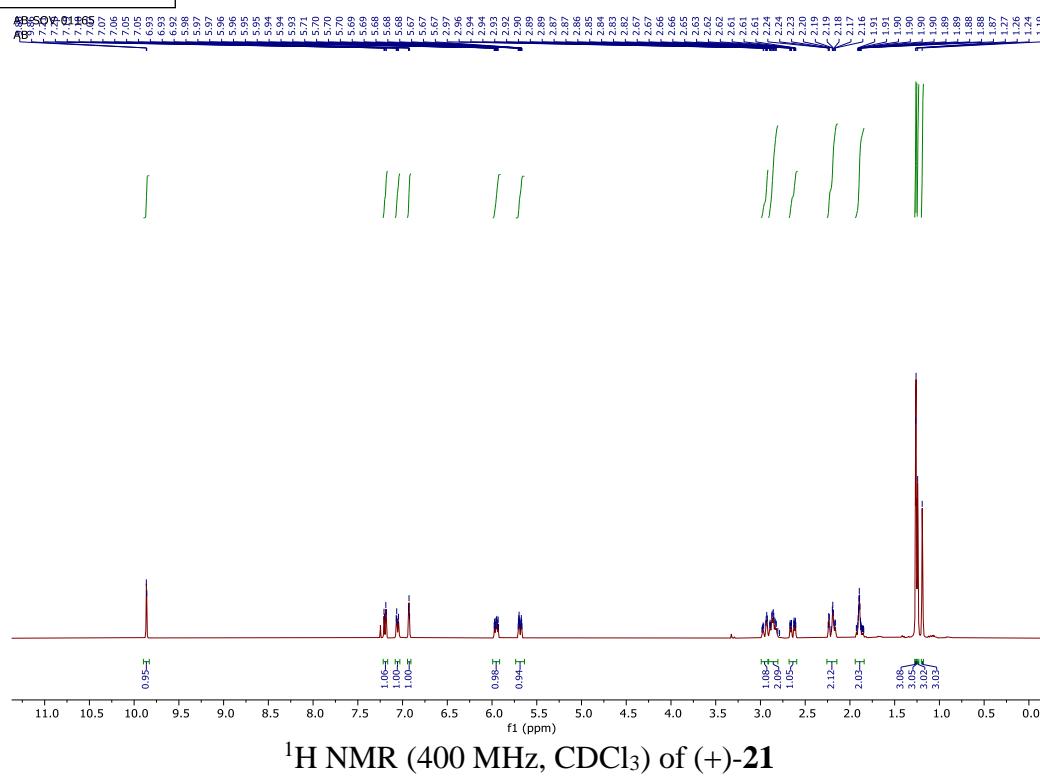
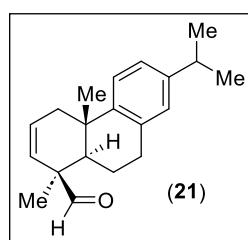
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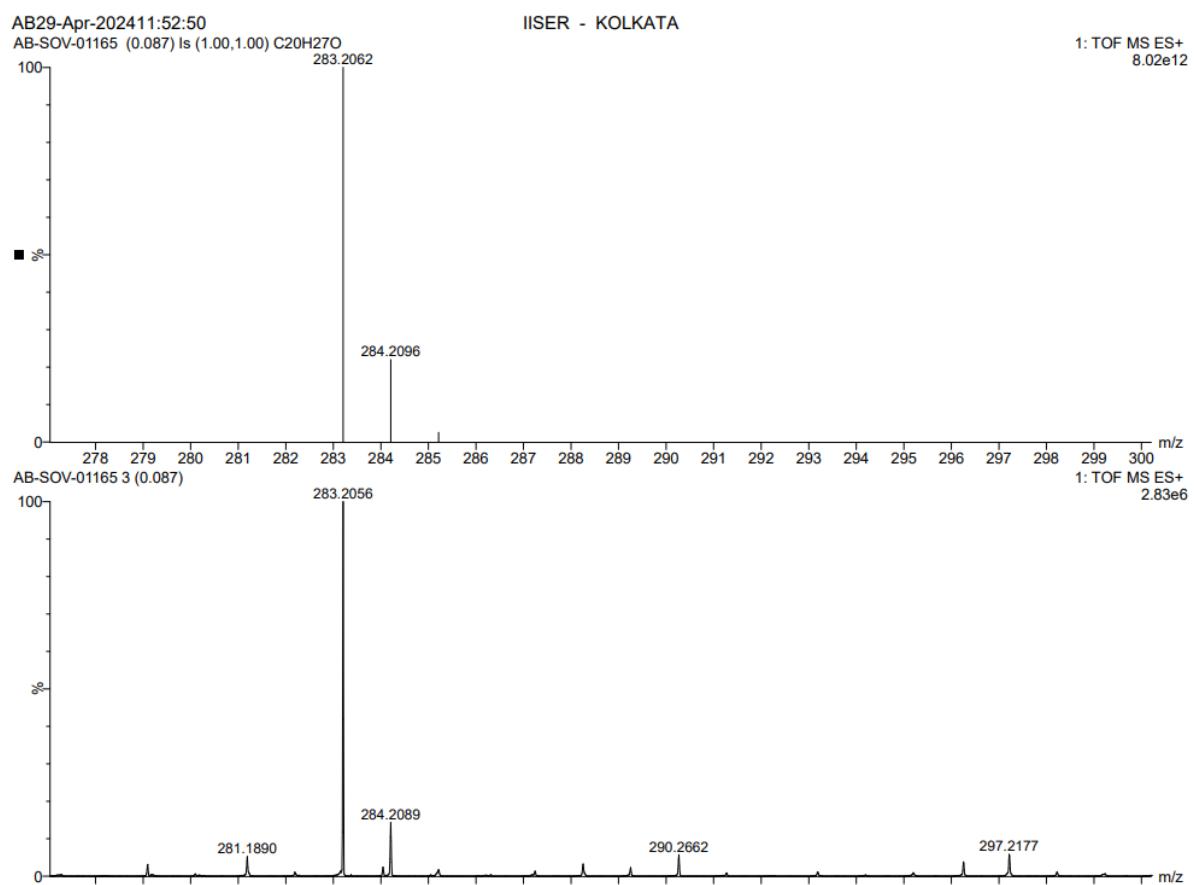
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by: IISER Kolkata

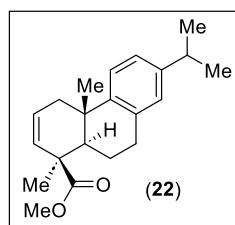
Page 1 of 1

HRMS data for (+)-20

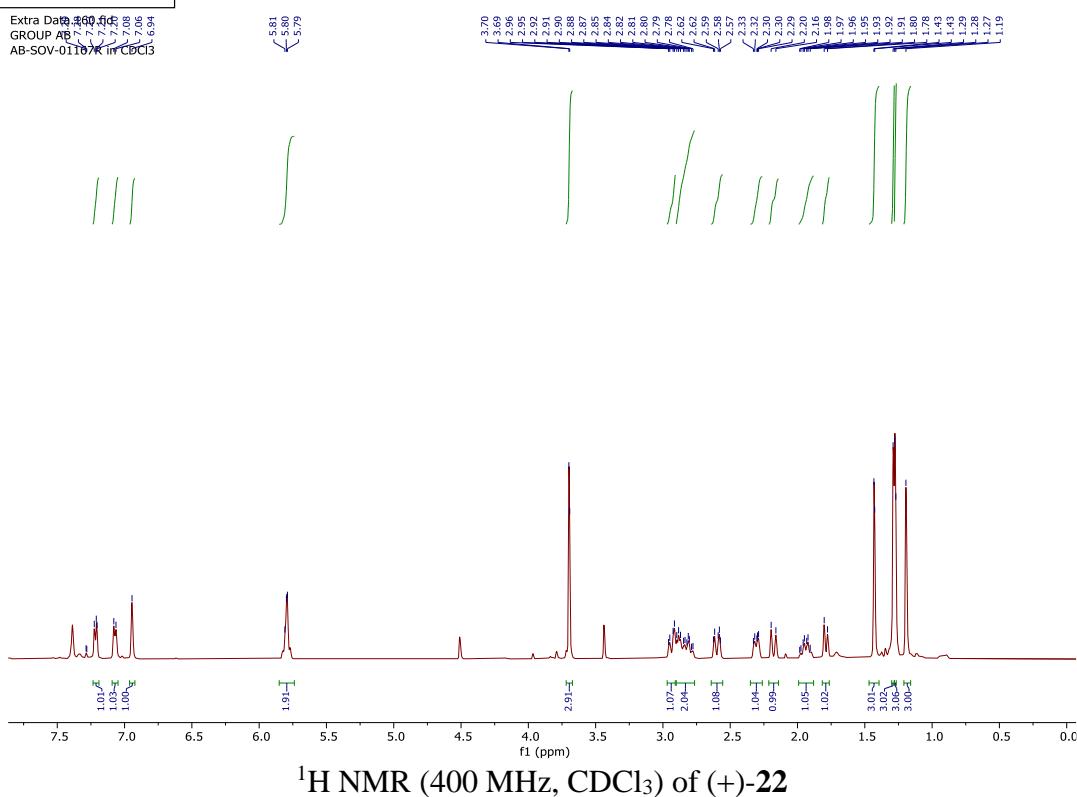




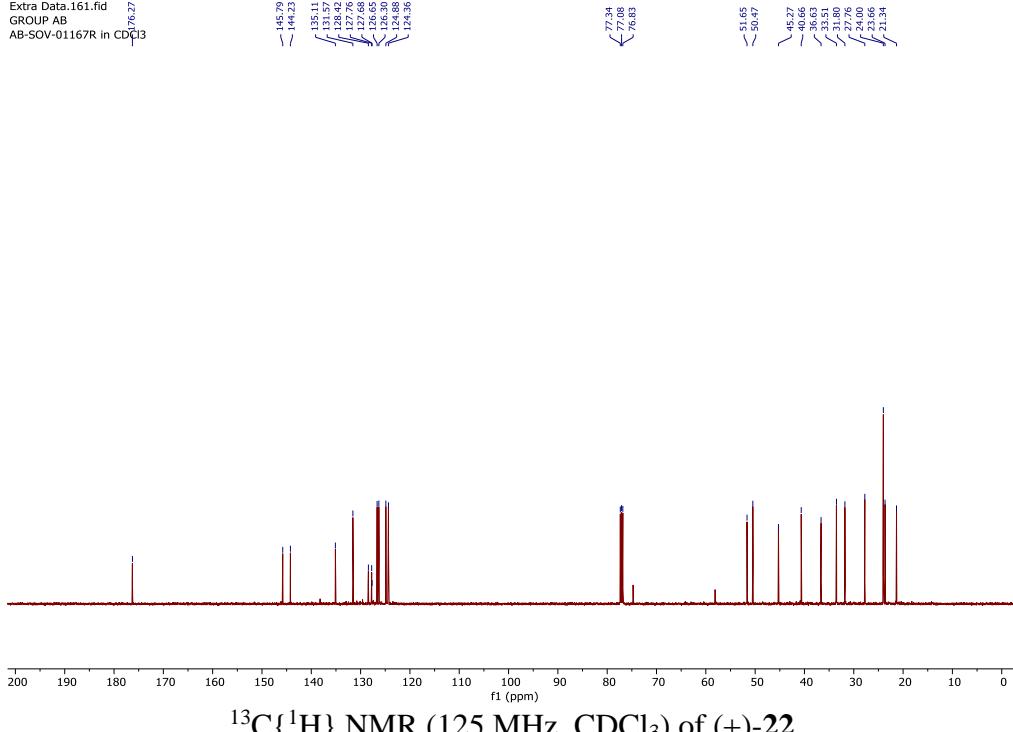
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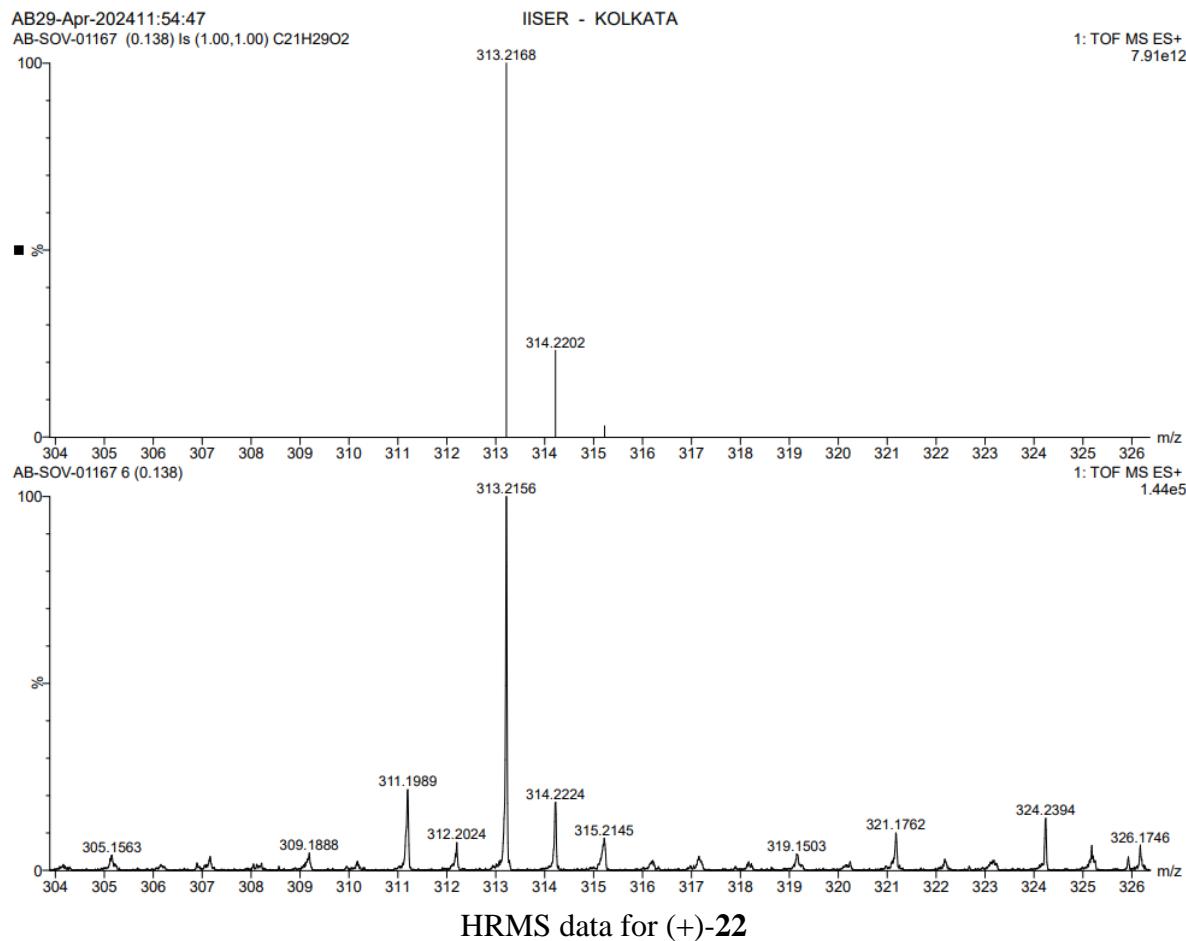


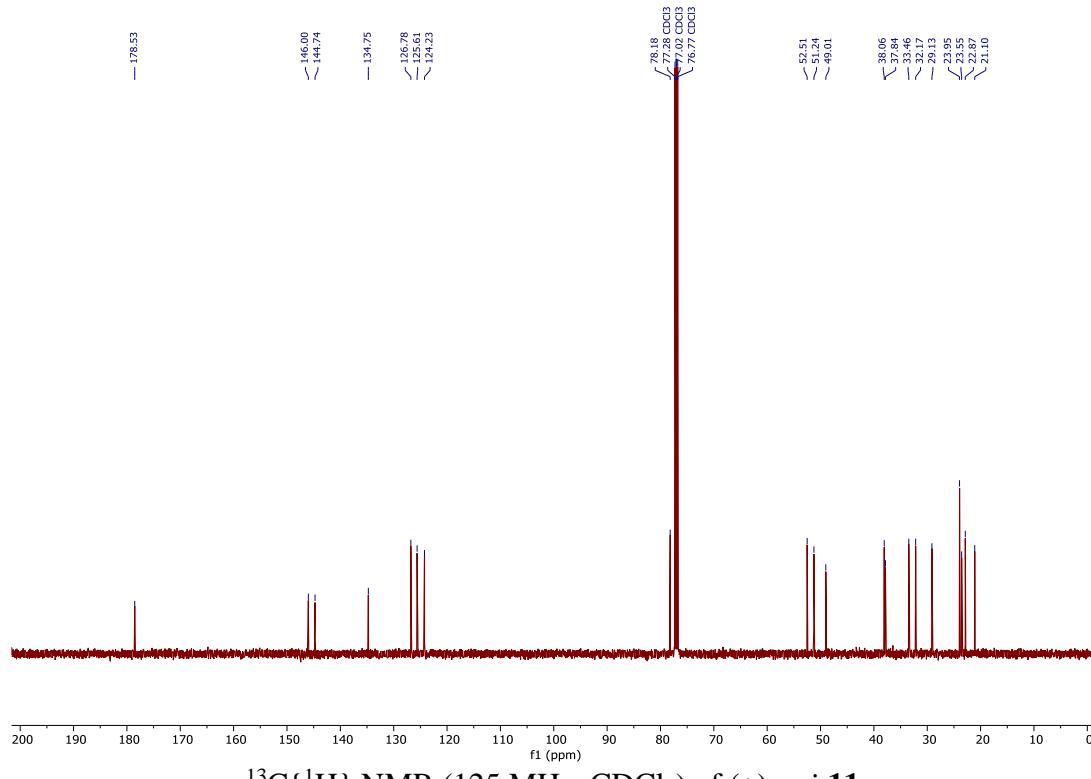
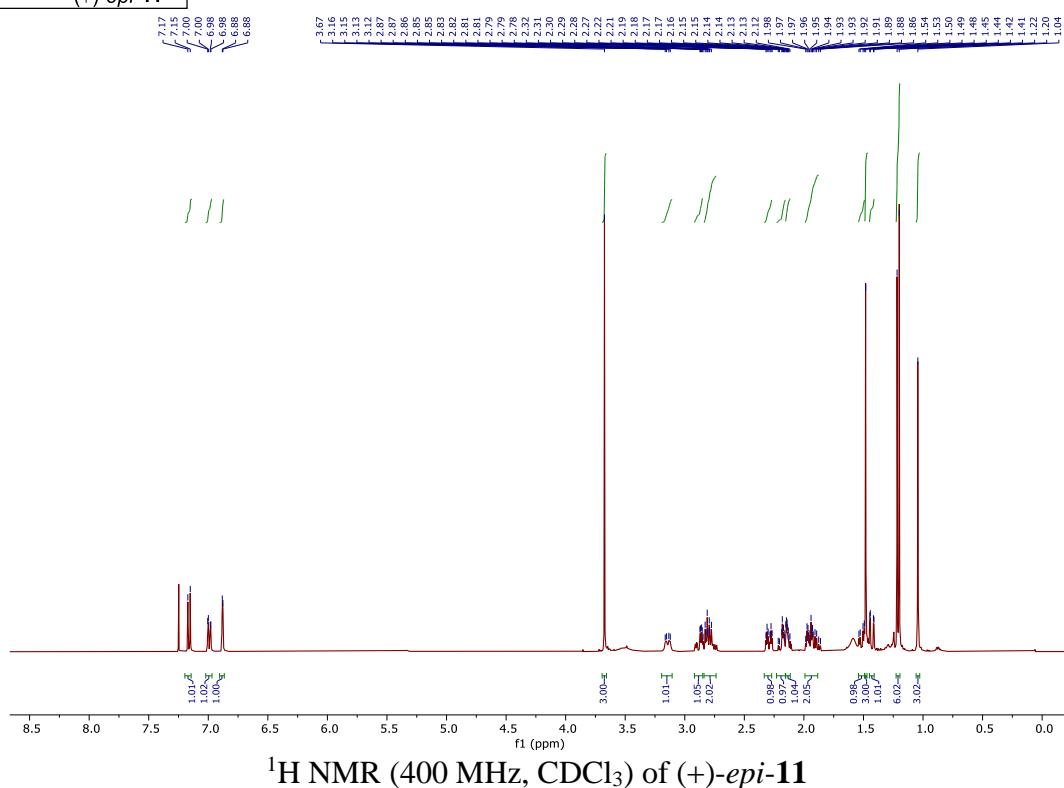
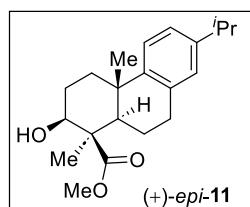
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AB-SOV-01167R in CDCl₃



Extra Data.161.fid
GROUP AB
AB-SOV-01167R in CDCl₃







Display Report

Analysis Info

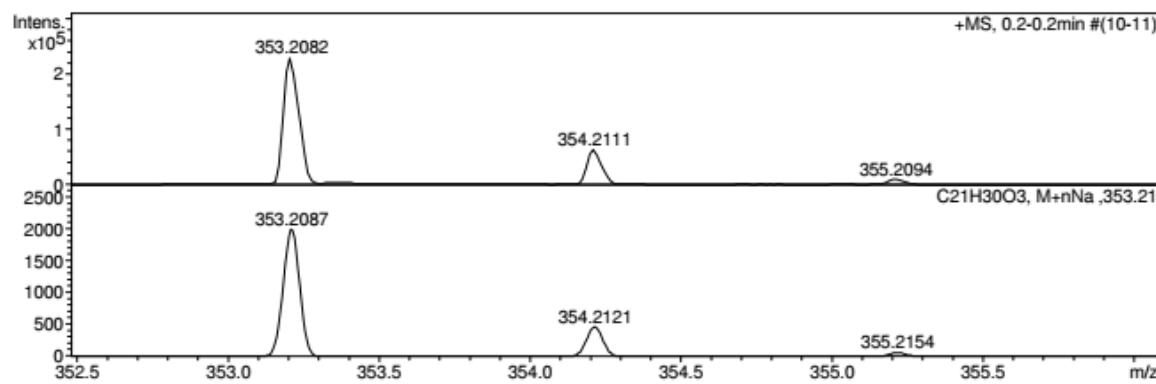
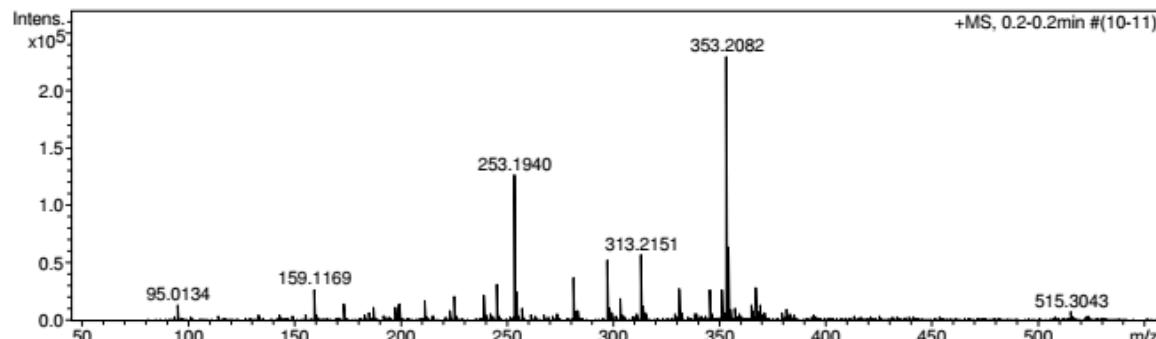
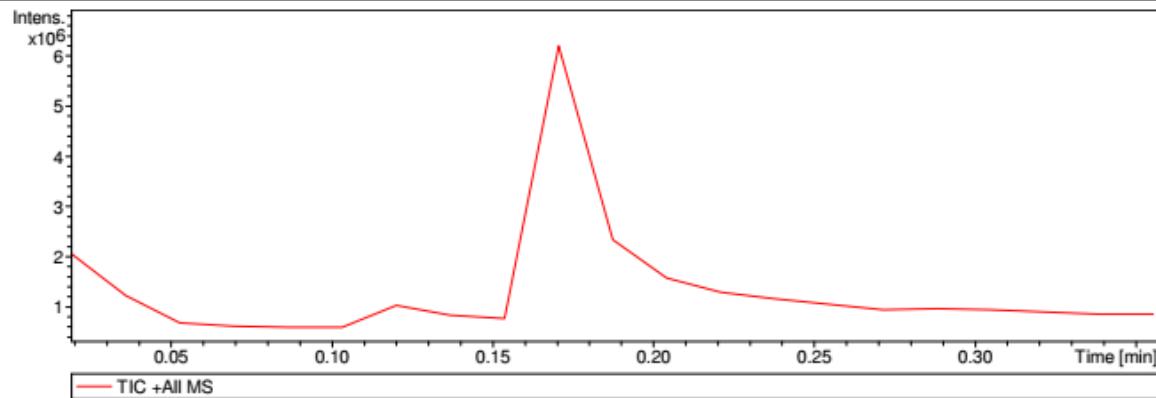
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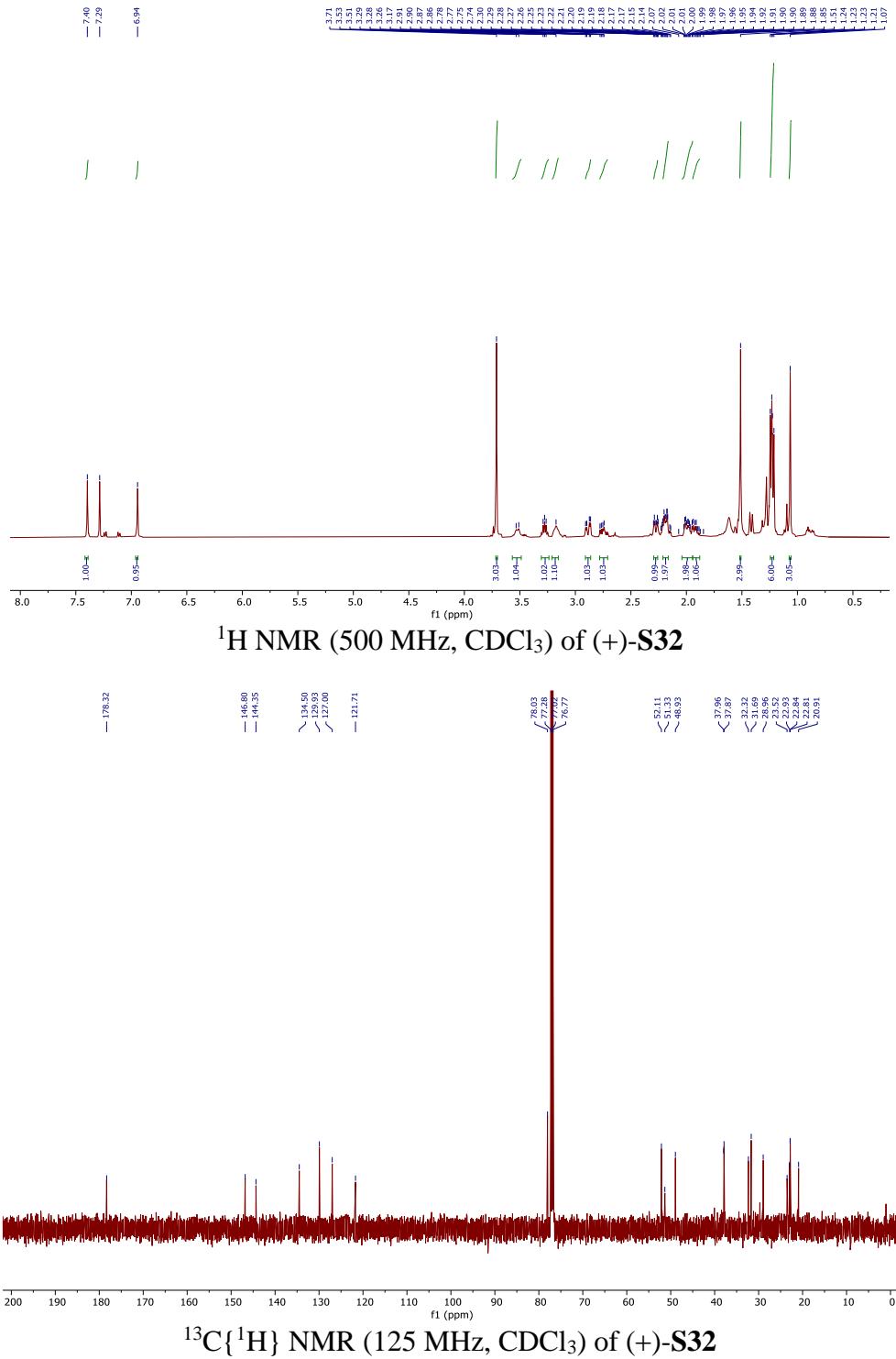
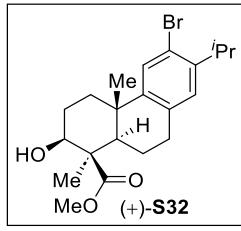
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Operator RUCHI
Instrument micrOTOF-Q II 10330

Acquisition Parameter

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Display Report

Analysis Info

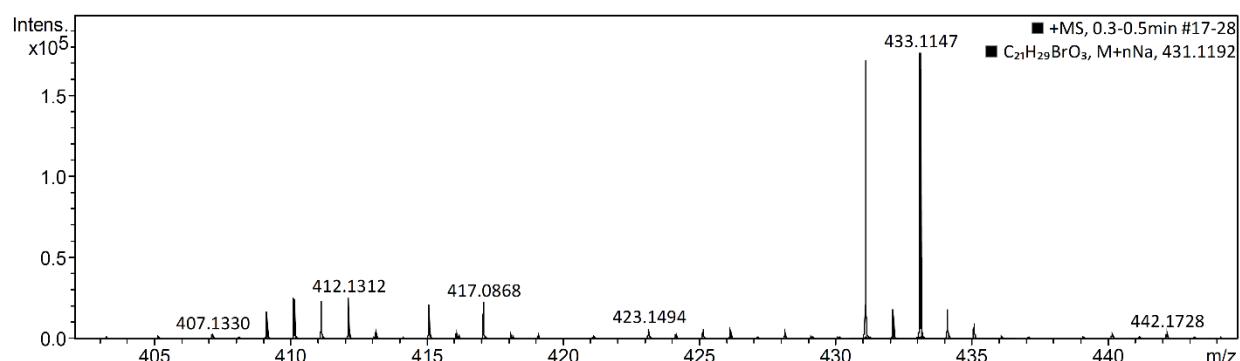
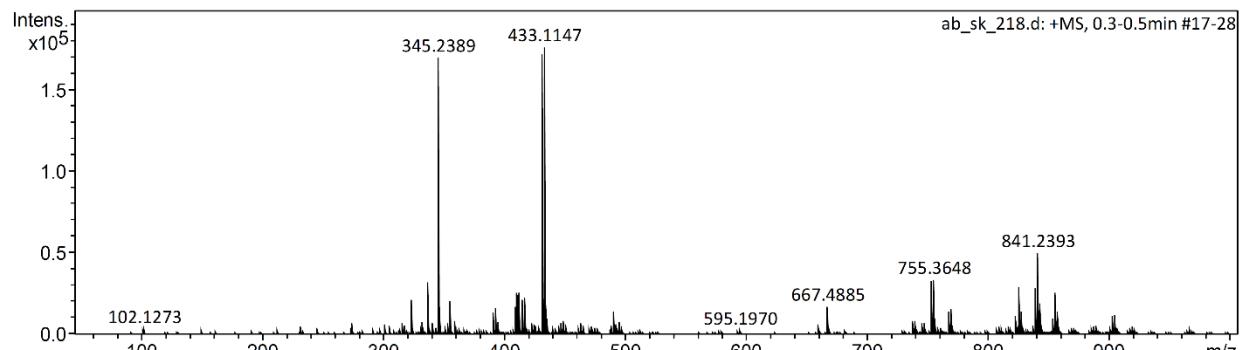
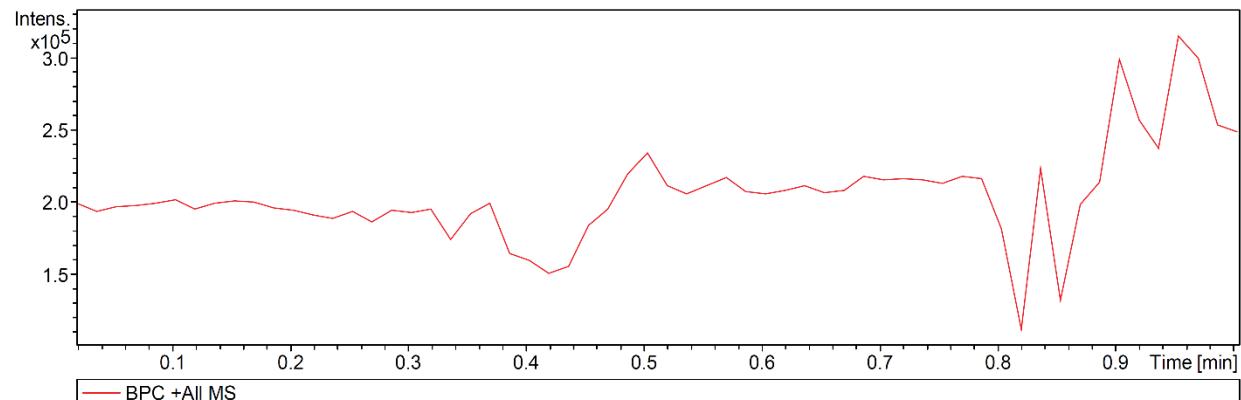
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Method Tune_pos_Standard.m
Sample Name ab_sk_218
Comment

Acquisition Date 1/24/2022 11:20:03 AM

Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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ab_sk_218.d

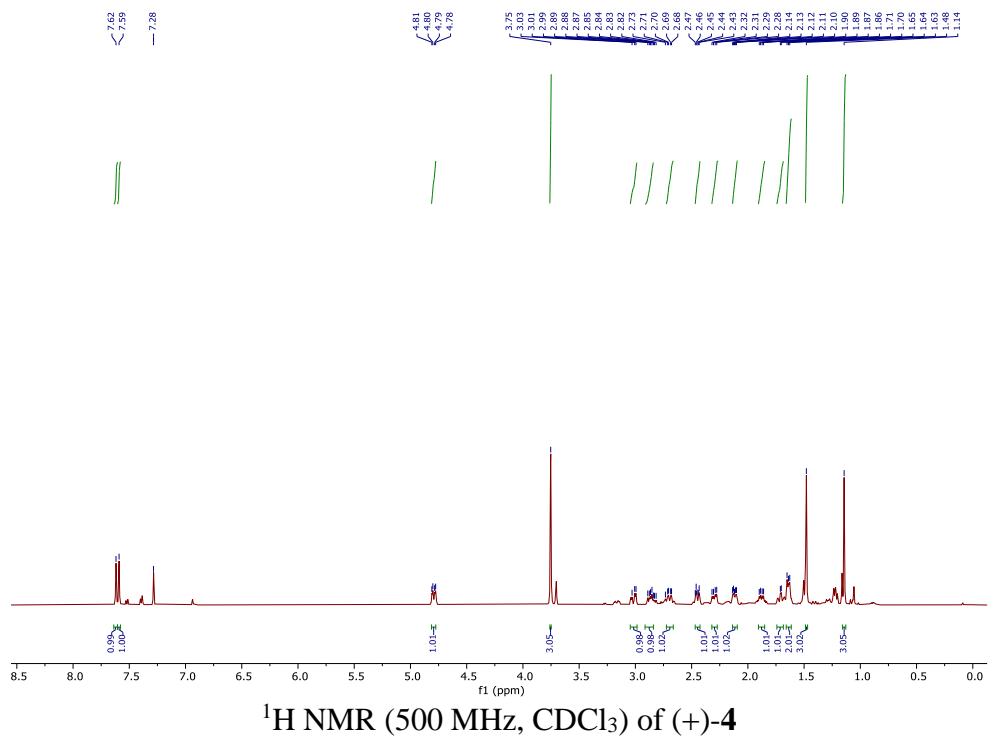
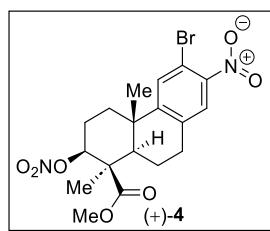
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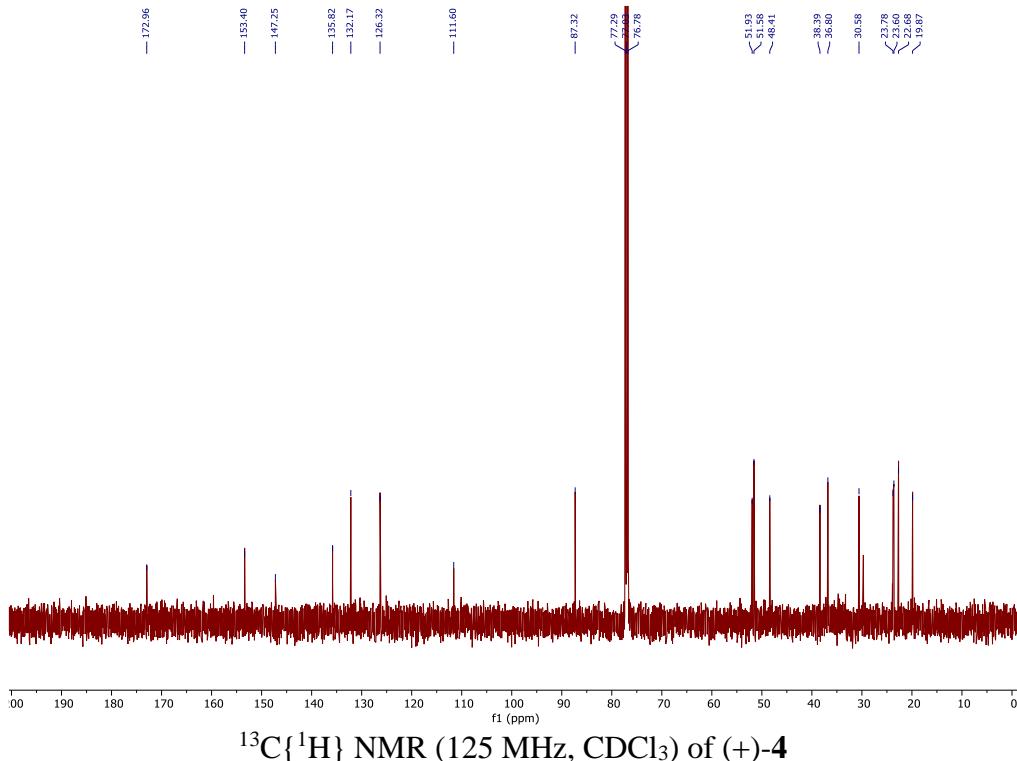
by: IISER Kolkata

Page 1 of 1

HRMS data of (+)-S32



¹H NMR (500 MHz, CDCl_3) of (+)-4



¹³C{¹H} NMR (125 MHz, CDCl_3) of (+)-4

Display Report

Analysis Info

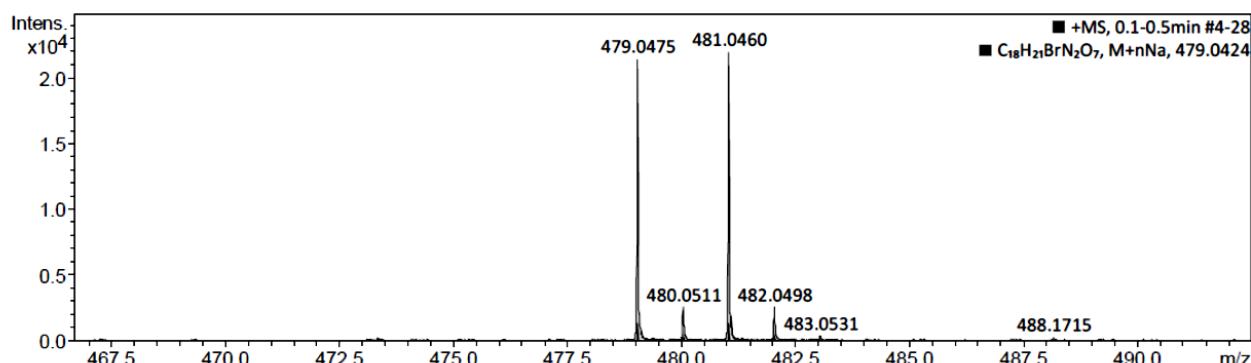
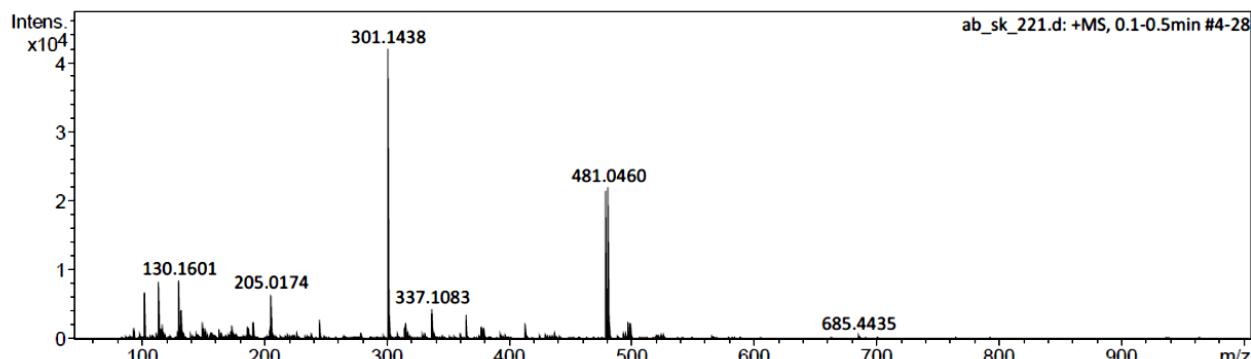
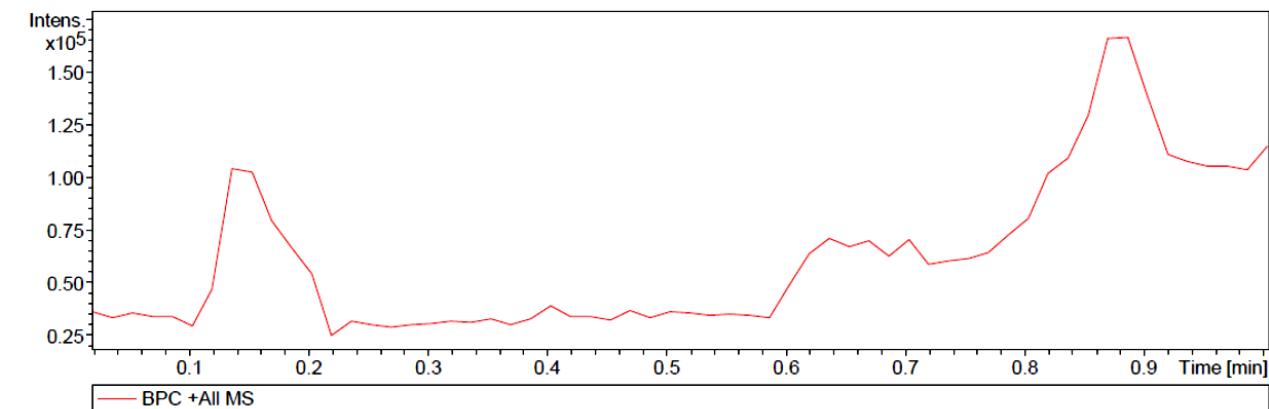
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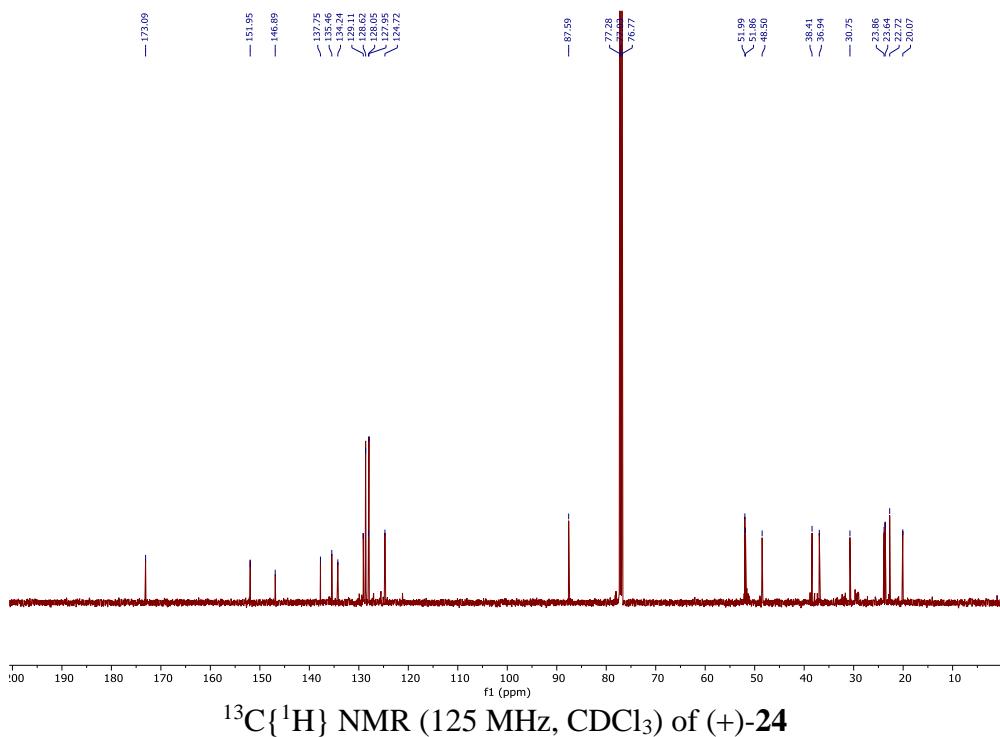
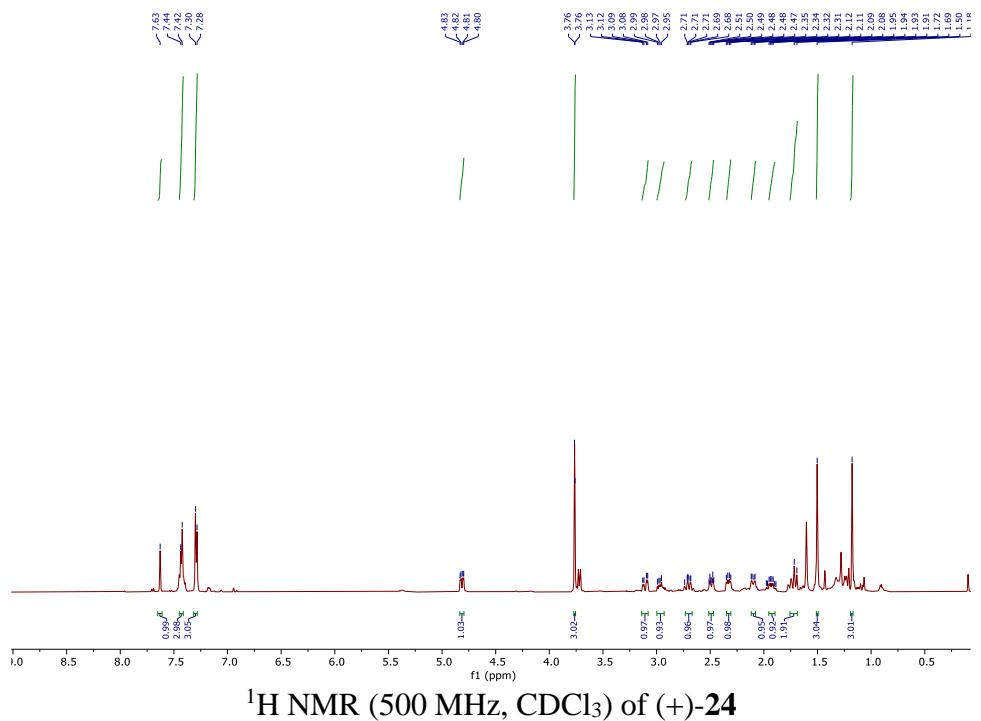
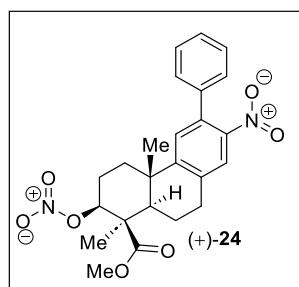
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

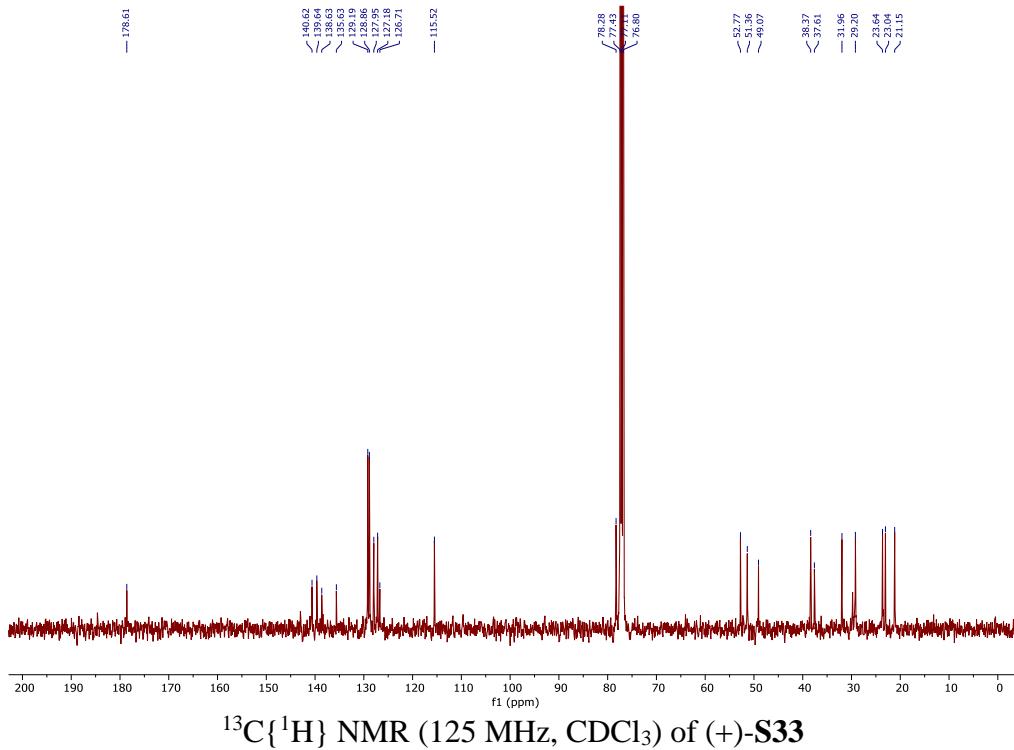
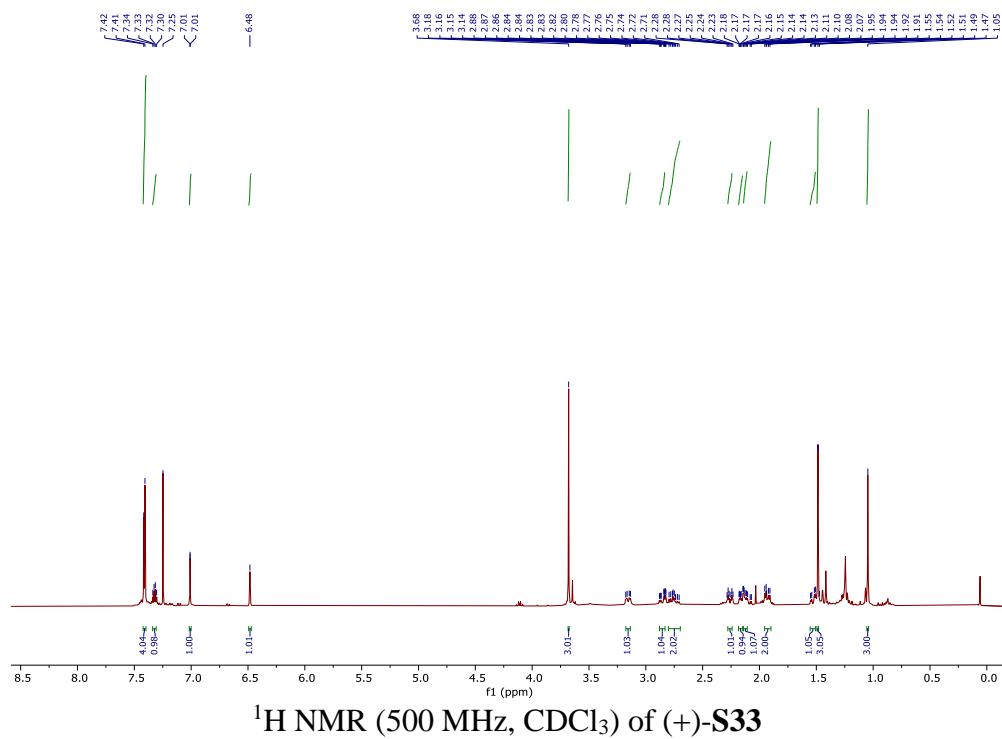
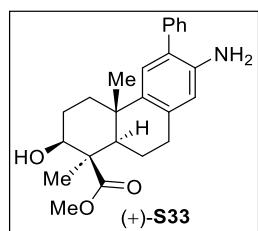
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Scan End	1000 m/z	Set Charging Voltage	2000 V	Set Divert Valve	Source
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HRMS data of (+)-4





Display Report

Analysis Info

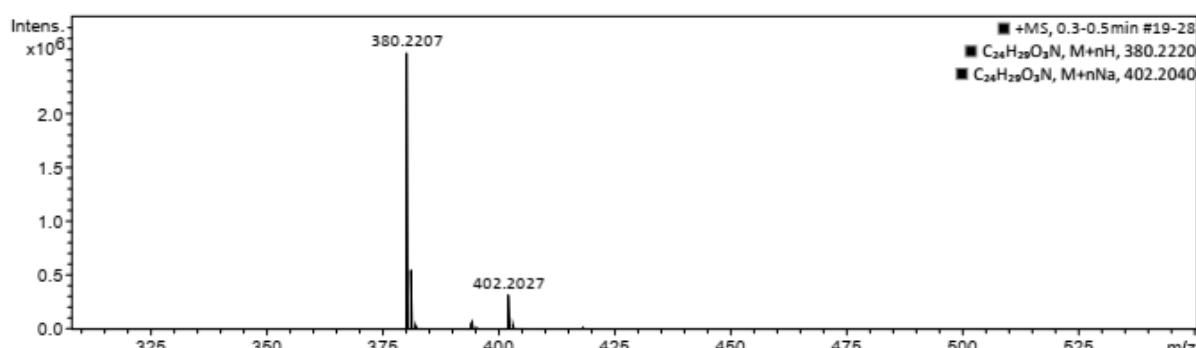
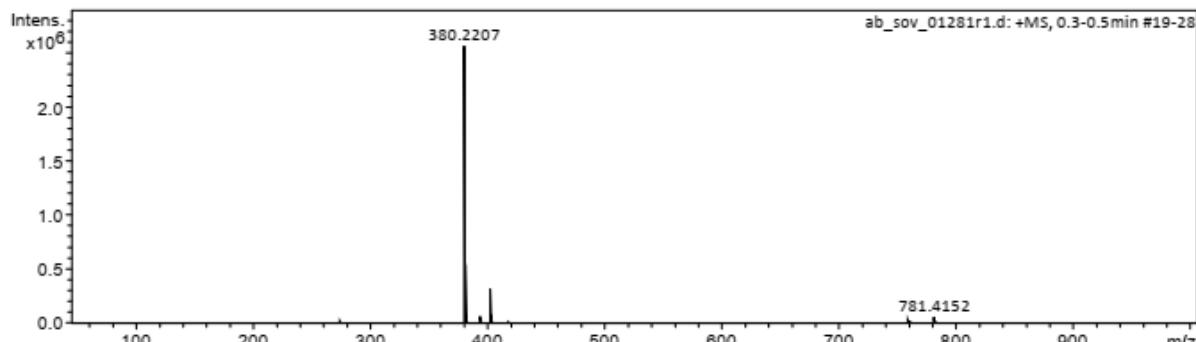
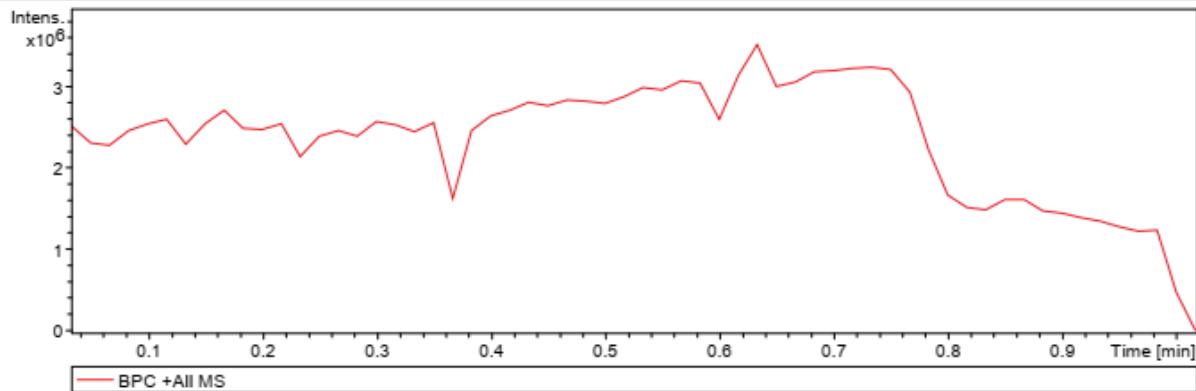
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Sample Name AB_SOV_01281R1
Comment

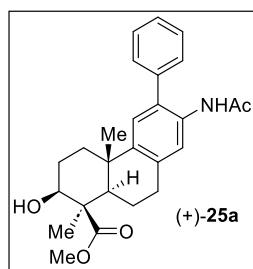
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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

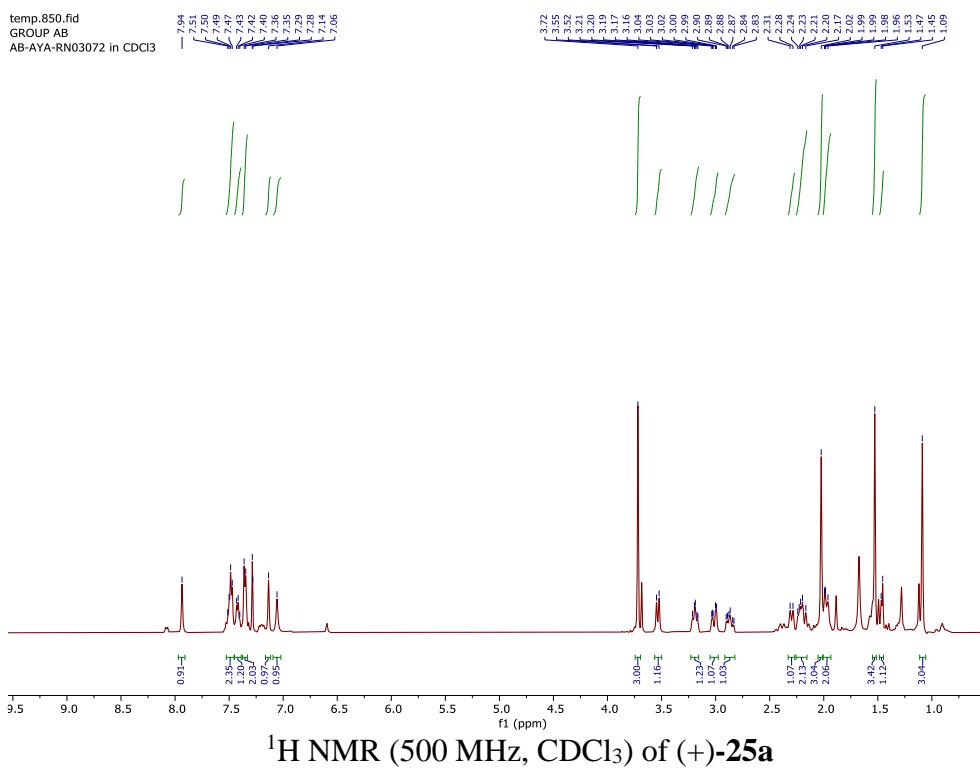
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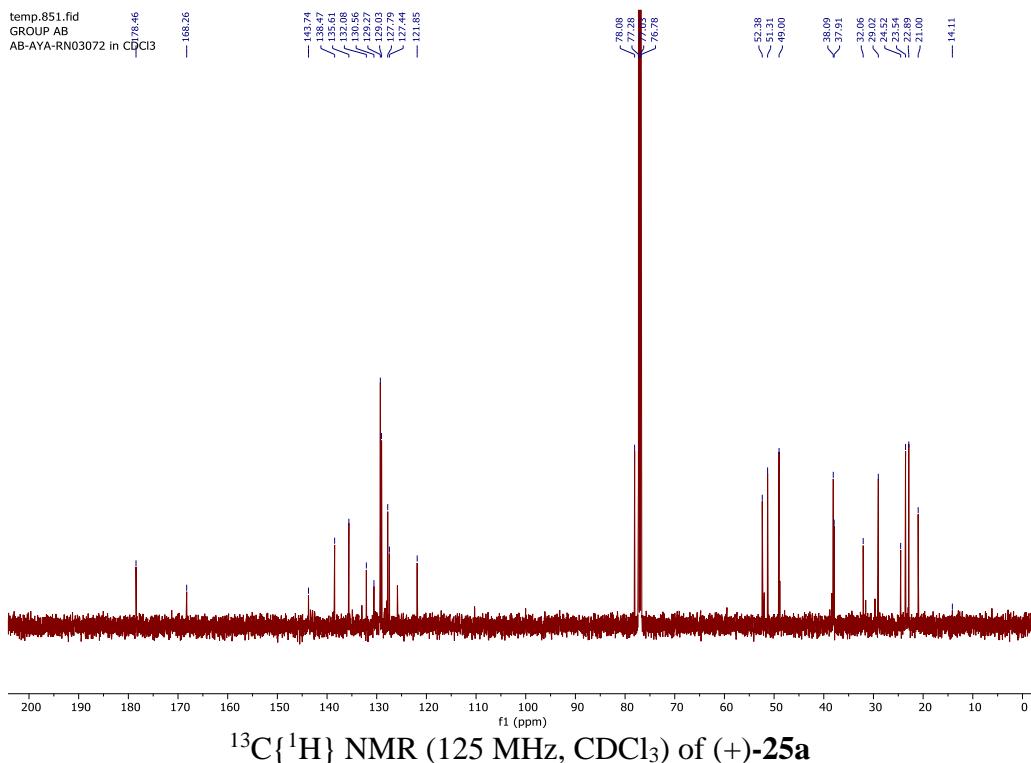




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GROUP AB
AB-AYA-RN03072 in CDCl₃



temp.851.fid
GROUP AB
AB-AYA-RN03072 in CDCl₃



Display Report

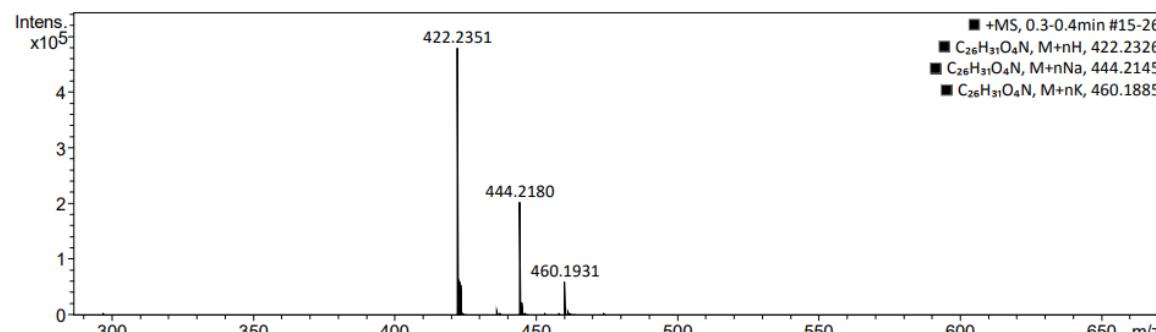
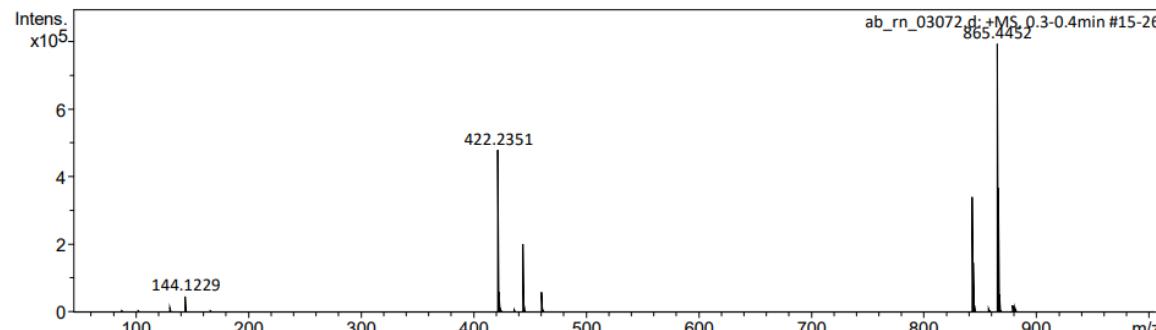
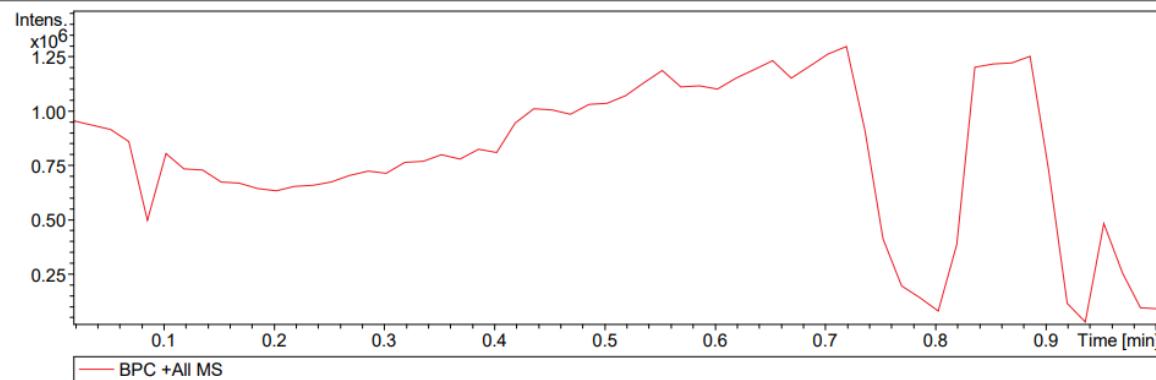
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Sample Name ab_m_03072
Comment

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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

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ab_rn_03072.d

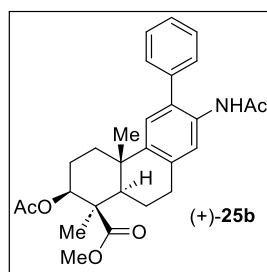
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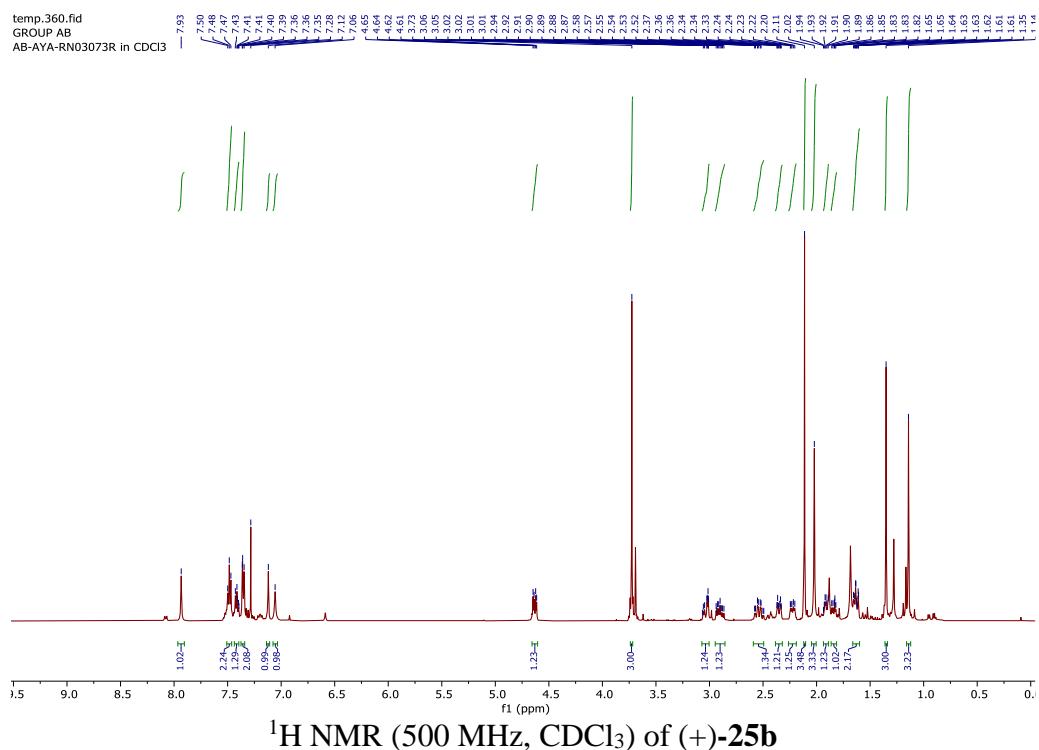
by: IISER Kolkata

Page 1 of 1

HRMS data of (+)-25a

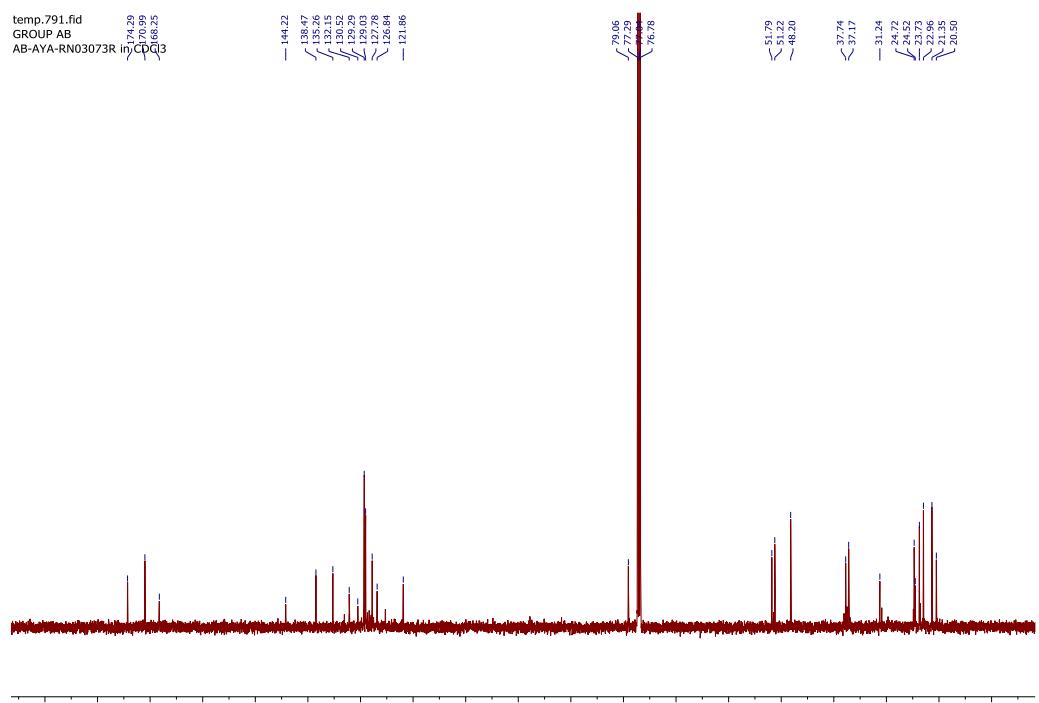


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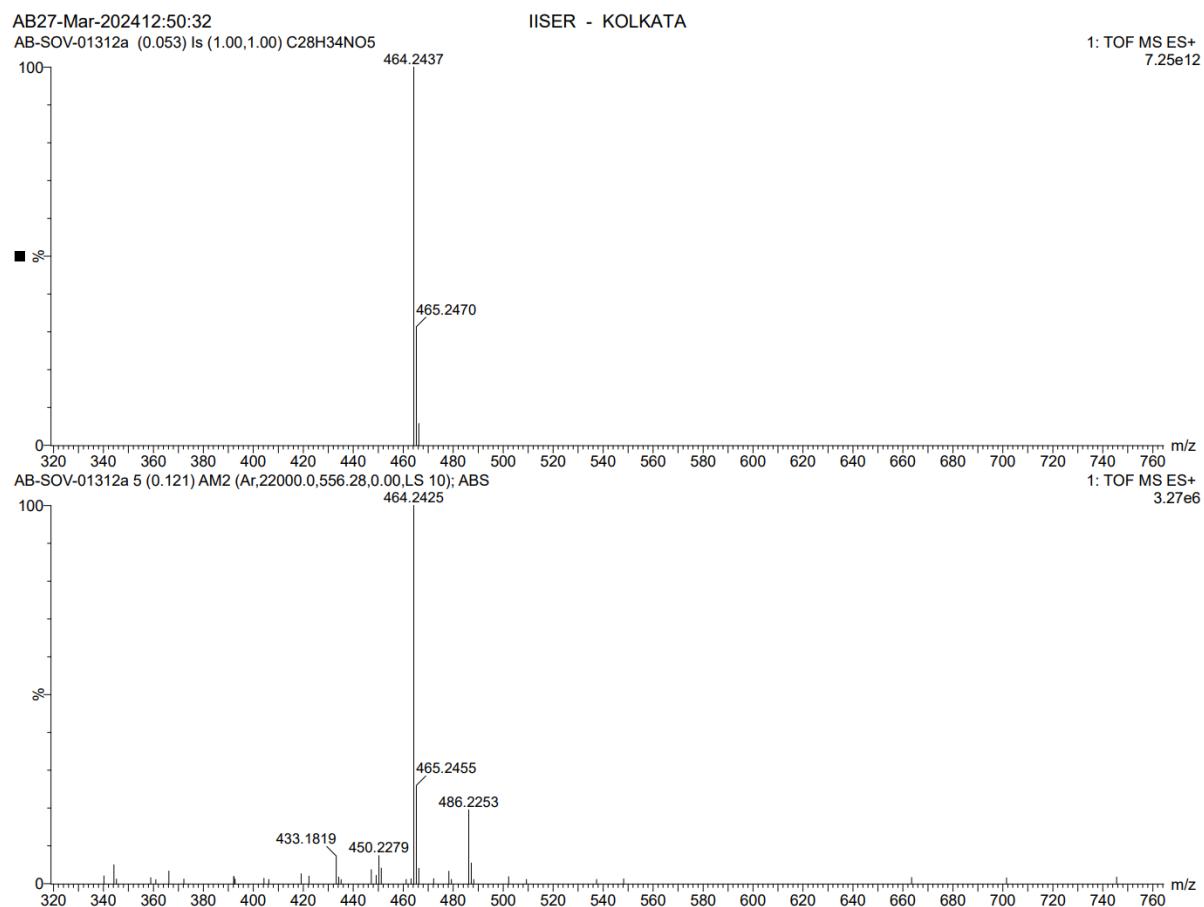


¹H NMR (500 MHz, CDCl₃) of (+)-25b

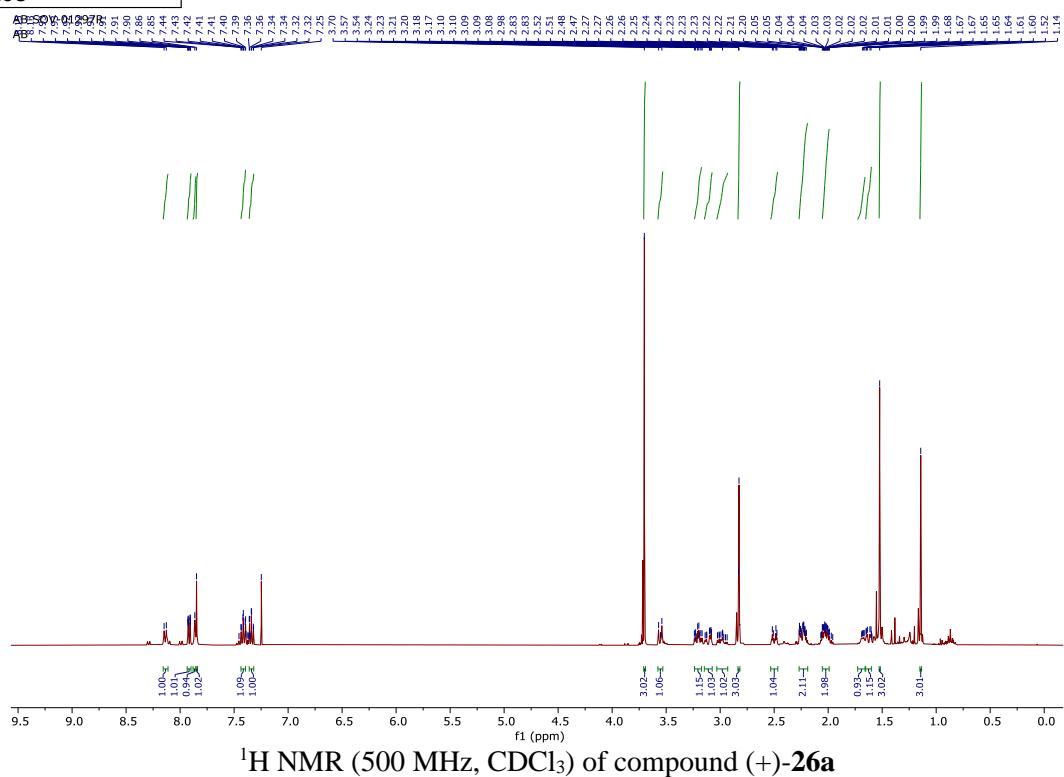
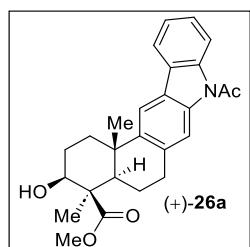
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GROUP AB
AB-AYA-RN03073R in CDCl₃



¹³C{¹H} NMR (125 MHz, CDCl₃) of (+)-25b



HRMS data of (+)-**25b**



Display Report

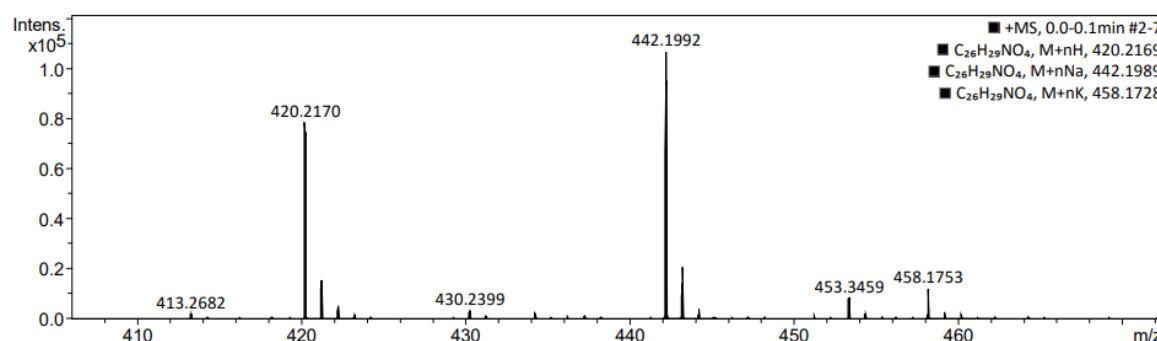
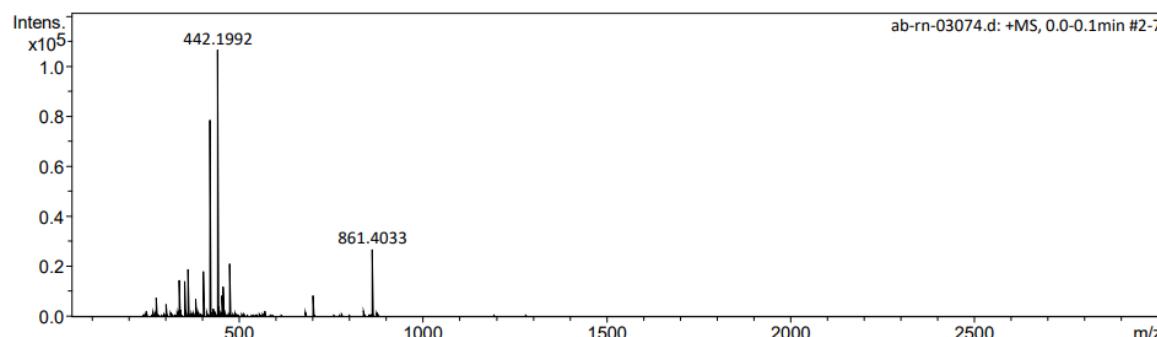
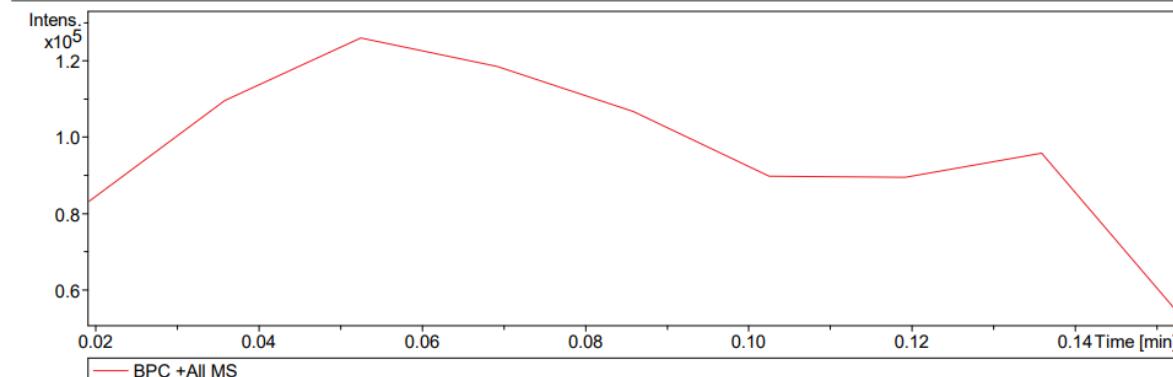
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Sample Name ab-rn-03074
Comment

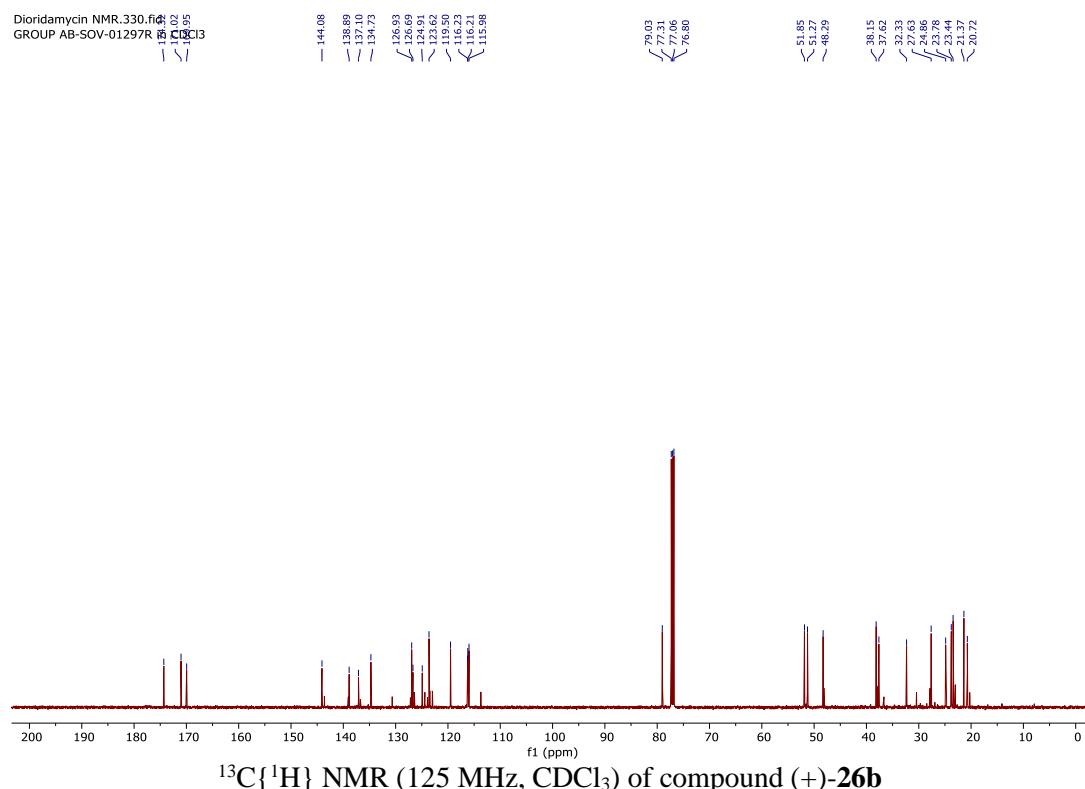
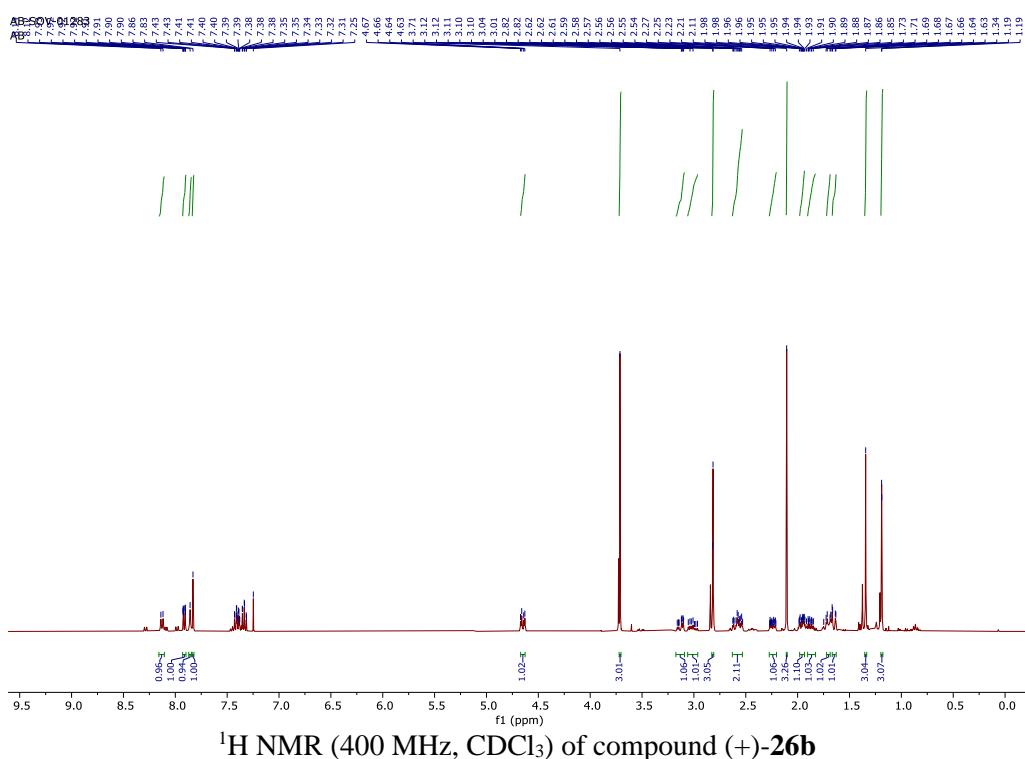
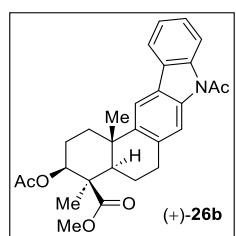
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Operator IISER Kolkata
Instrument maXis impact 8282001.00127

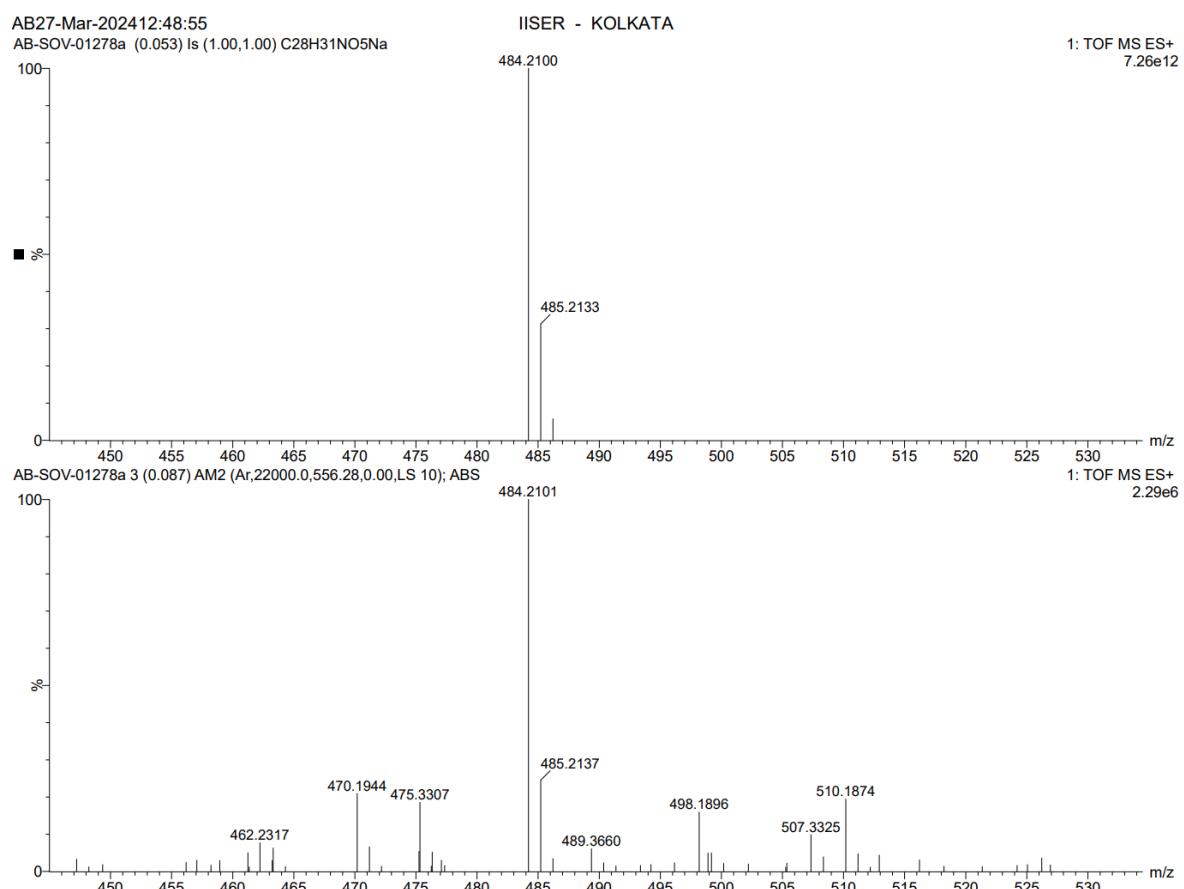
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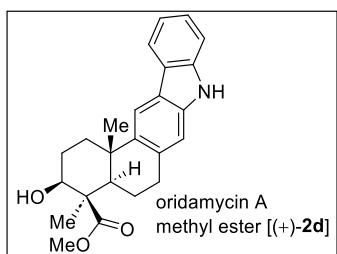
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HRMS data of (+)-26a







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GROUP AB
AB-SOV-01285P in CDCl₃

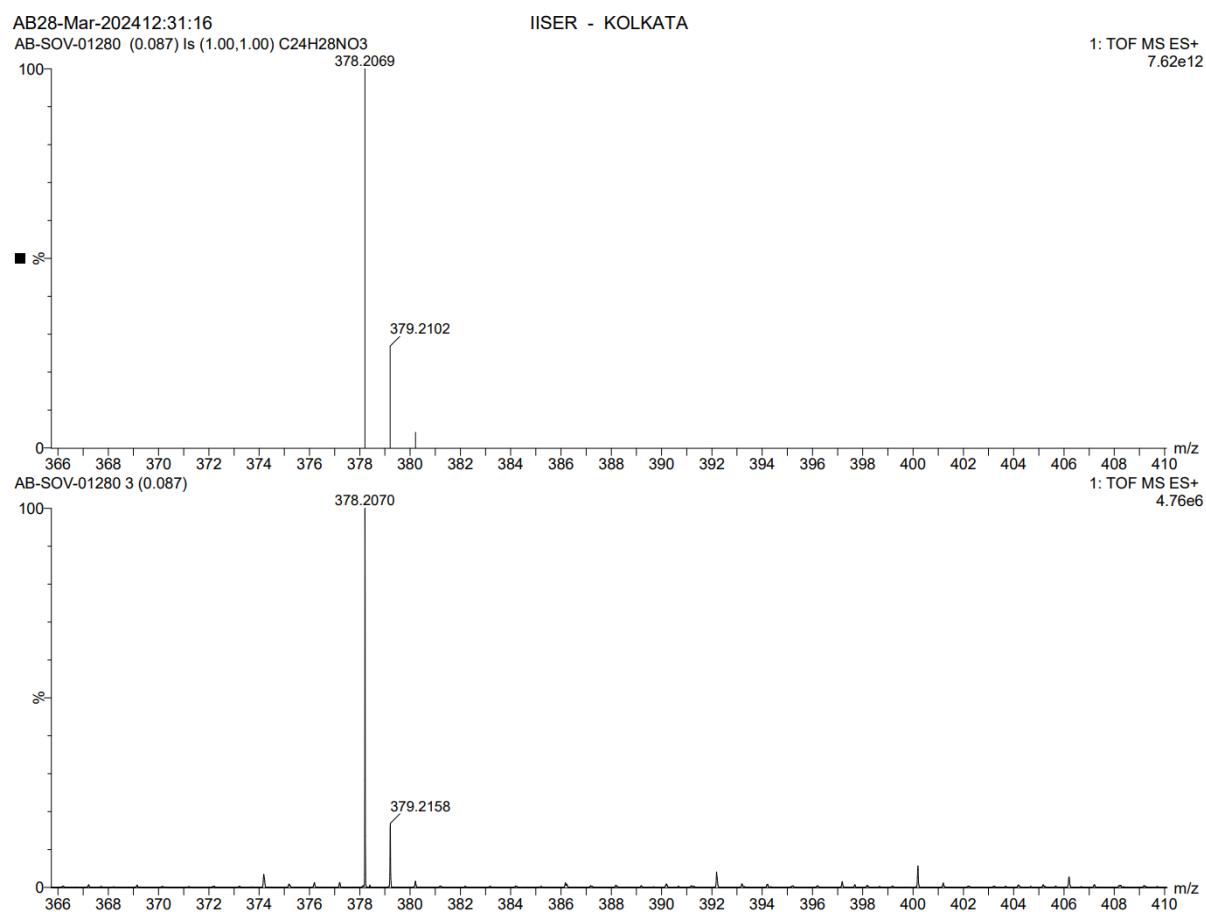


¹H NMR (500 MHz, CDCl₃) of oridamycin A methylester (+)-2d

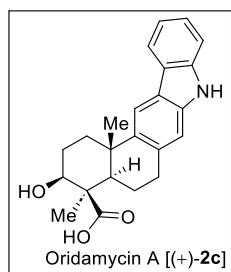
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AB-SOV-01285P in CDCl₃



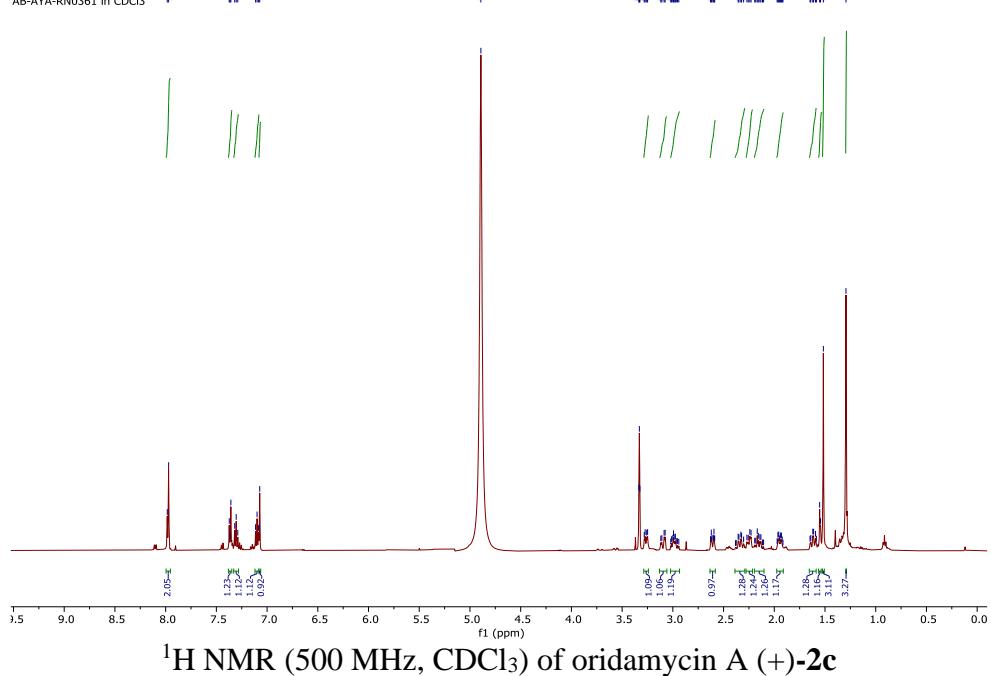
¹³C{¹H} NMR (125 MHz, CDCl₃) of oridamycin A methylester (+)-2d



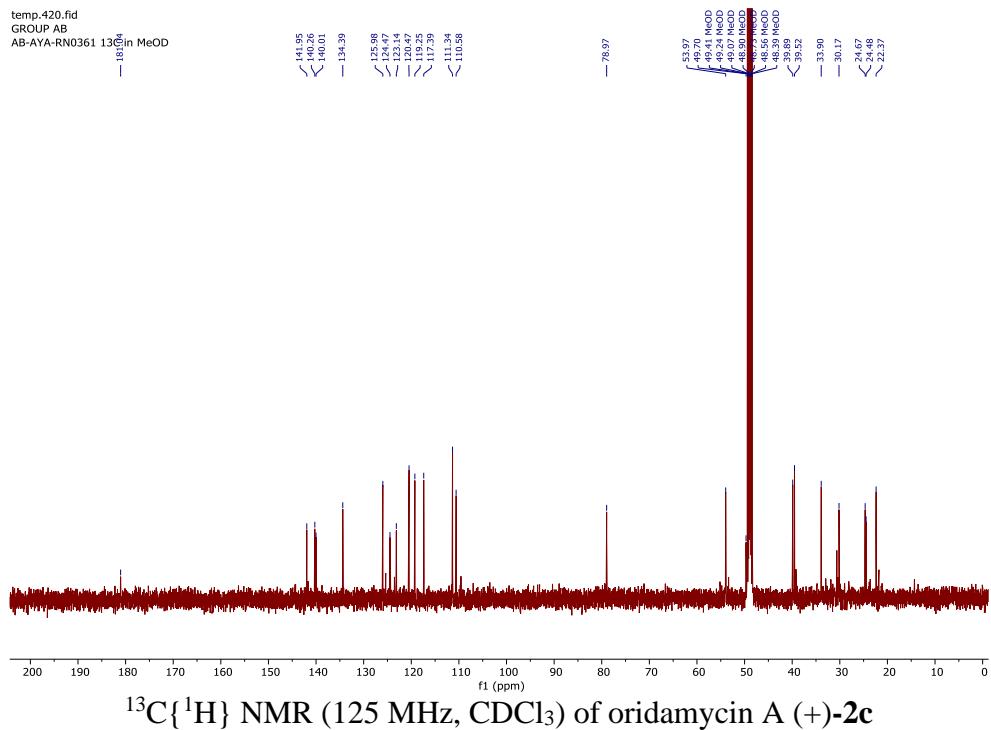
HRMS data of oridamycin A methylester (+)-**2d**



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GROUP AB
AB-AYA-RN0361 13Cin MeOD
— 18Oin MeOD



Display Report

Analysis Info

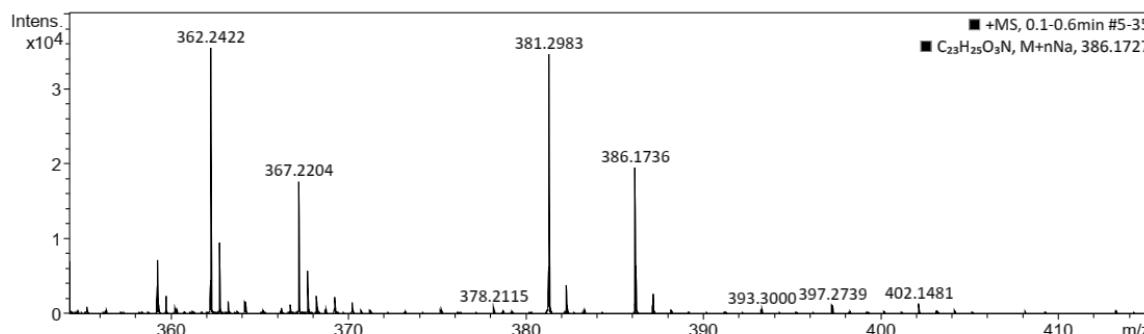
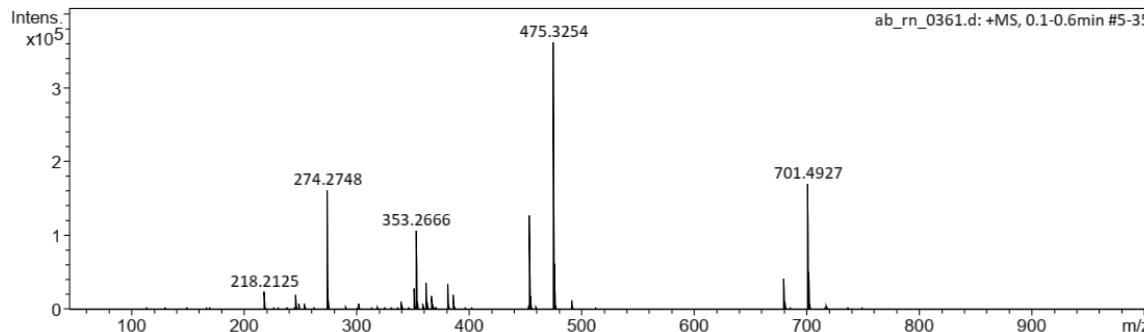
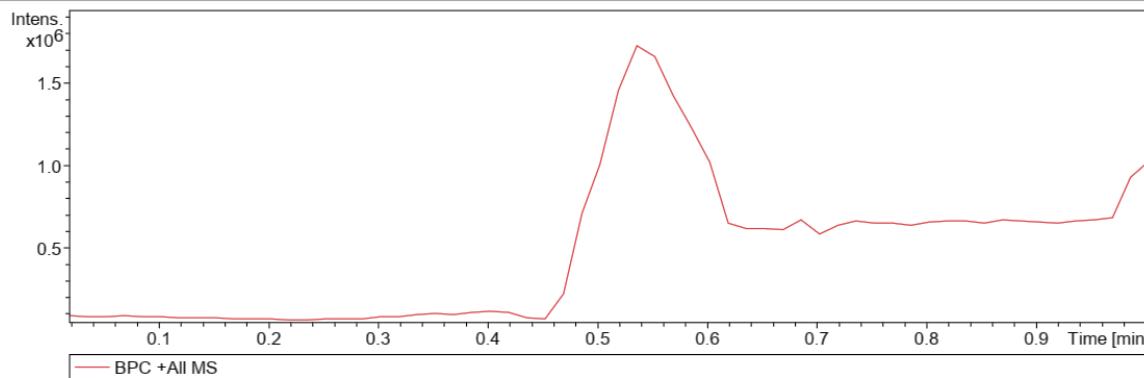
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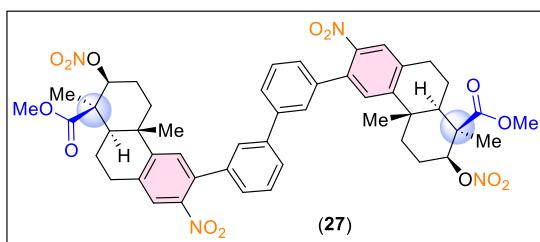
Operator IISER Kolkata
Instrument maXis impact 8282001.00127

Acquisition Parameter

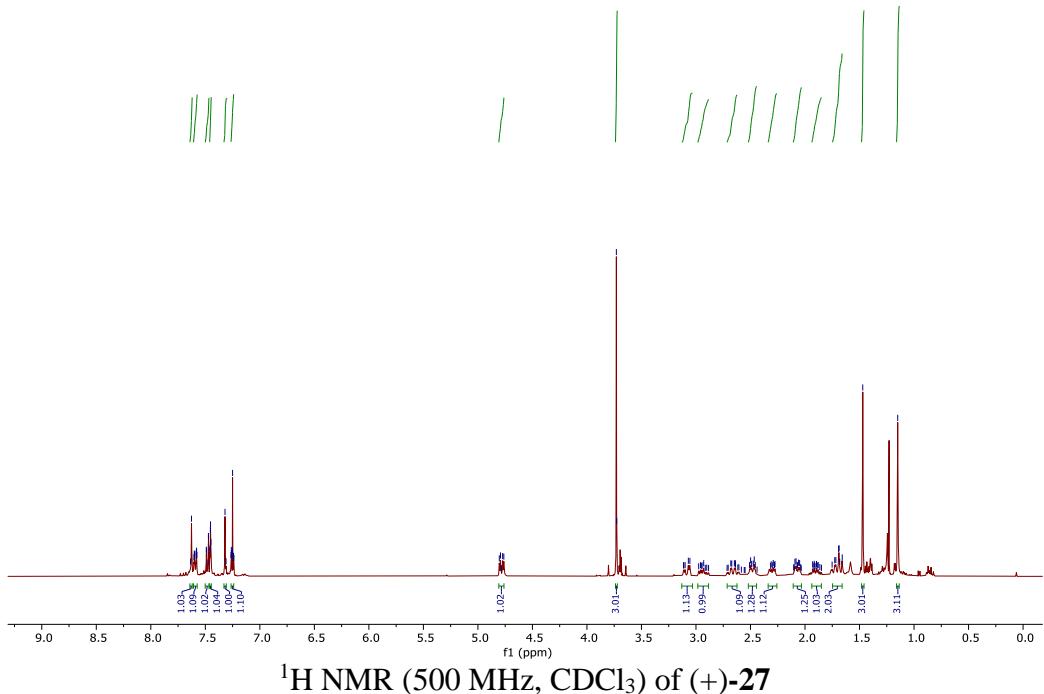
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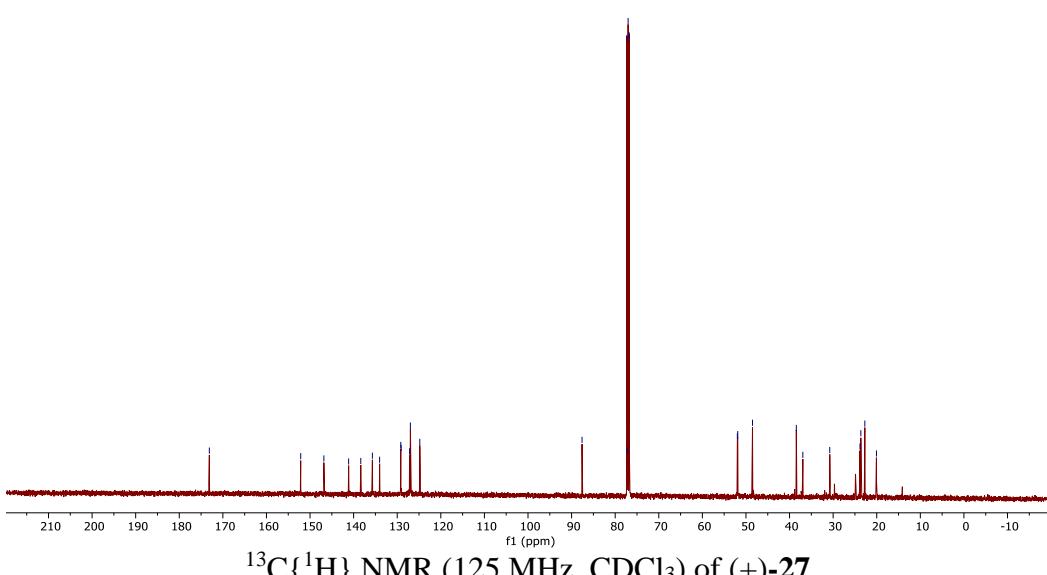
HRMS data of oridamycin A (+)-2c

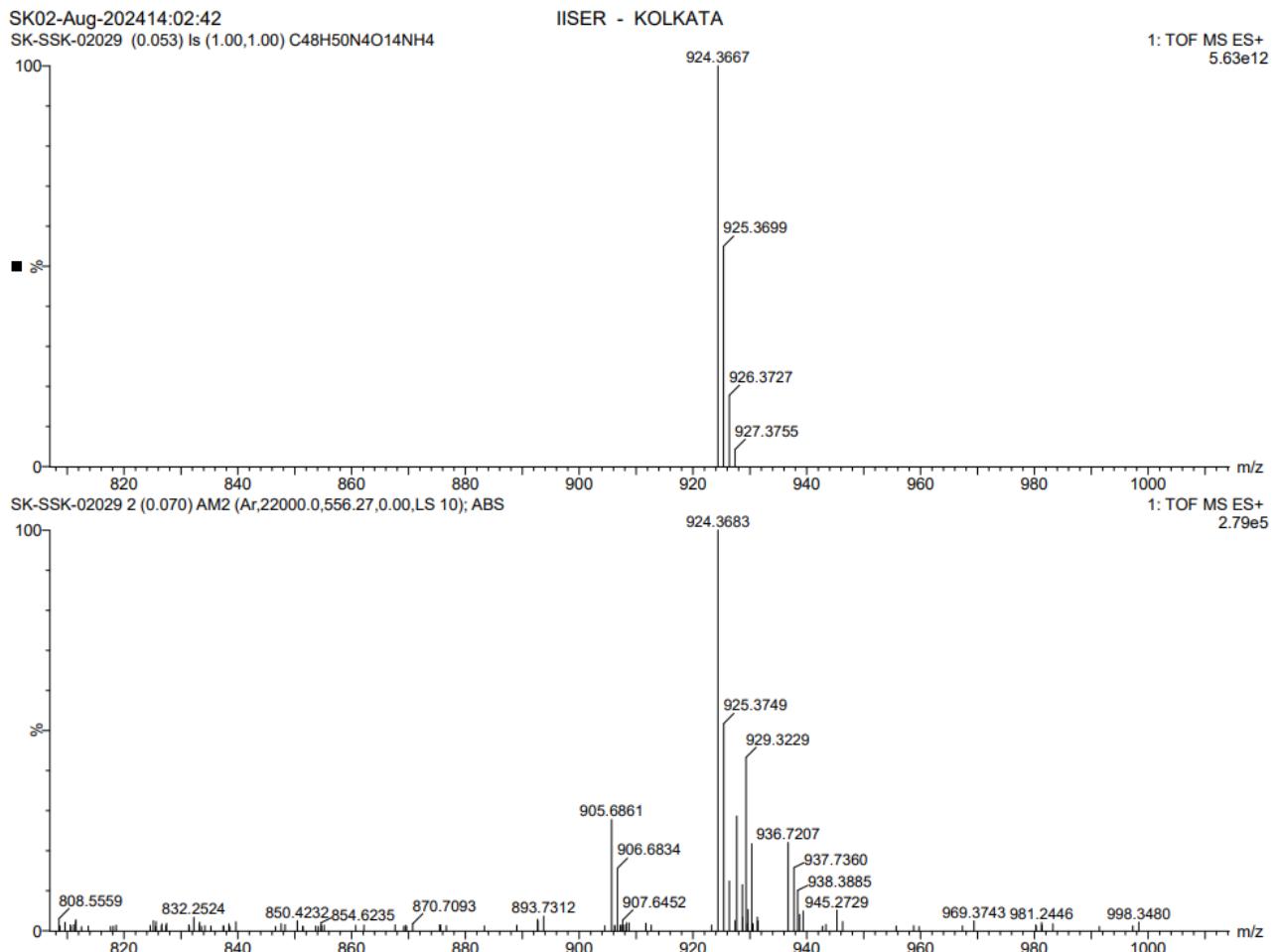


AB-SOV-02029
GROUP AB
AB-SOV-02029 in CDCl₃

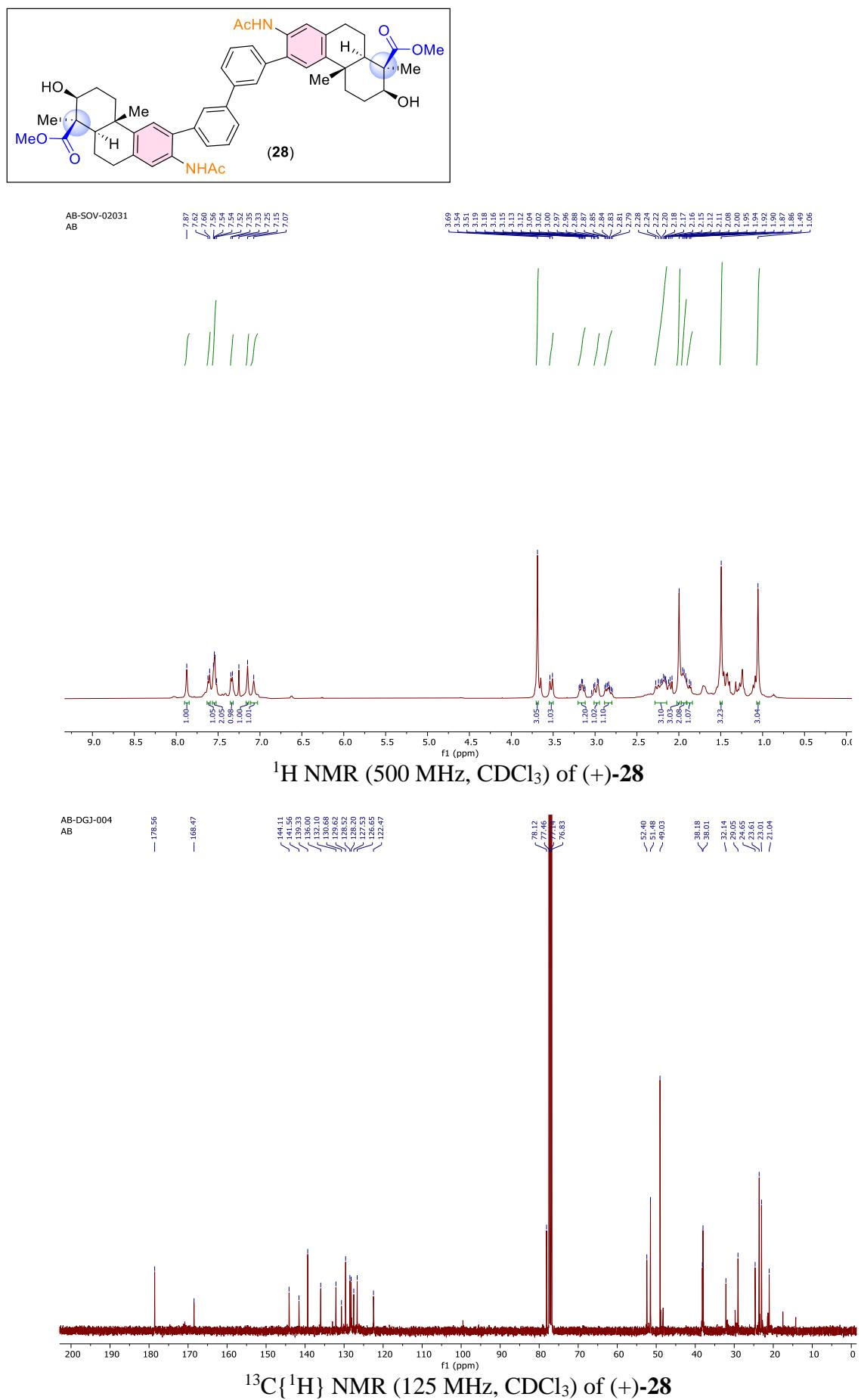


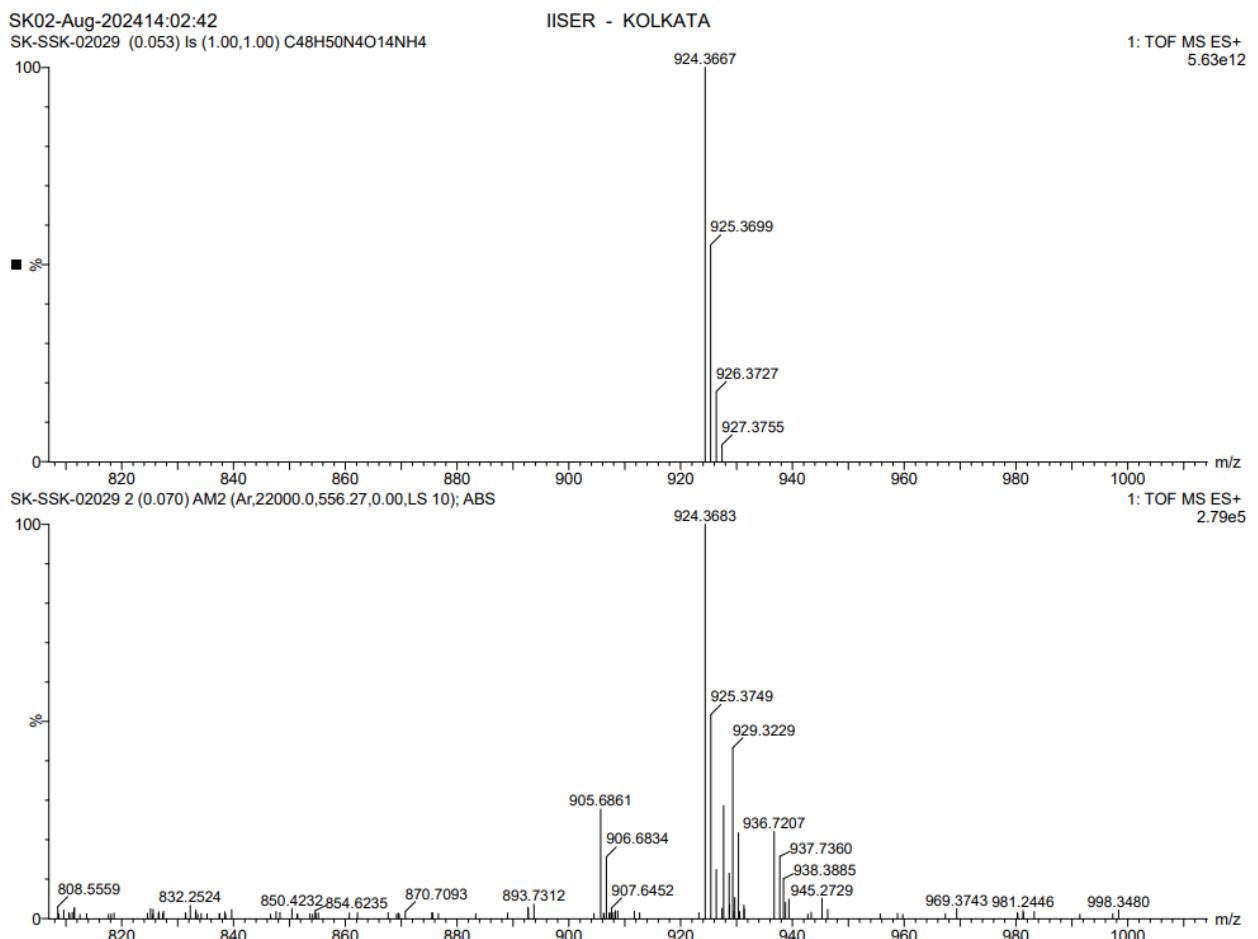
Dioridamycin NMR.410.fid
GROUP AB
AB-SOV-02029 in CDCl₃



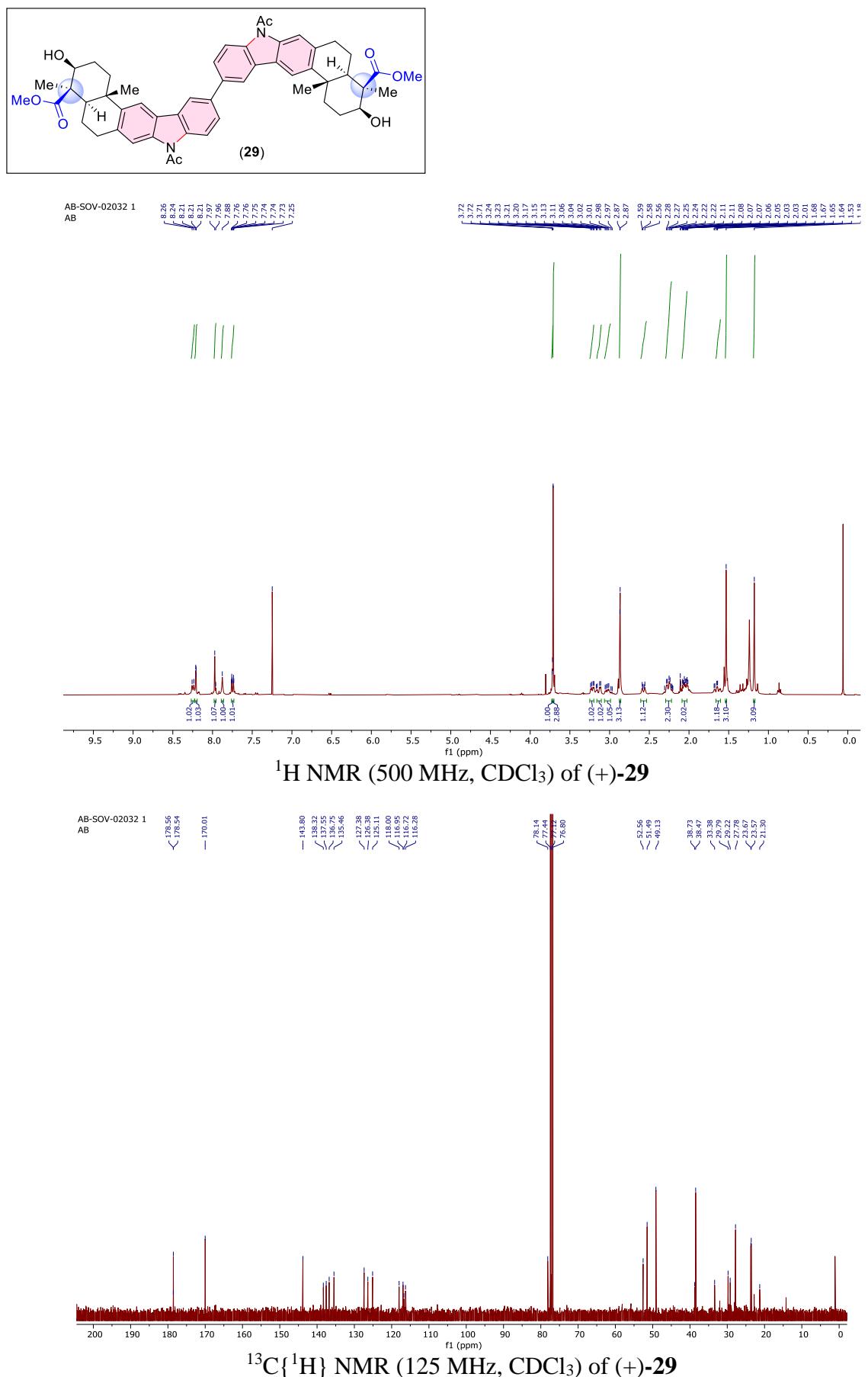


HRMS data of (+)-27





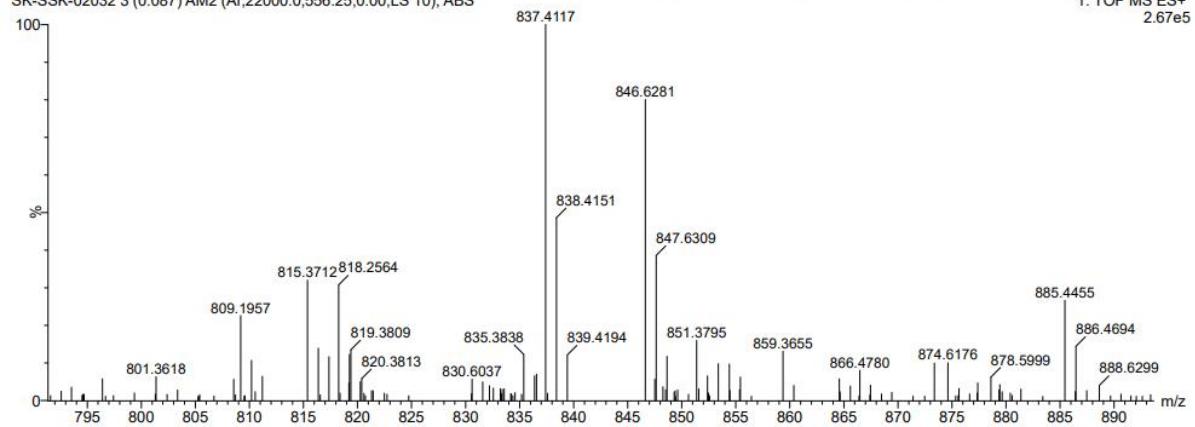
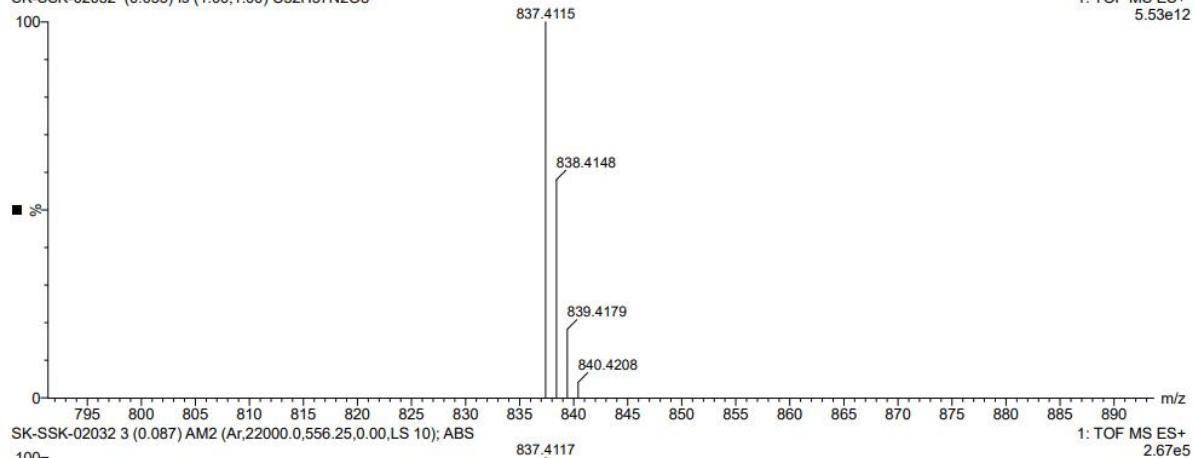
HRMS data of (+)-28



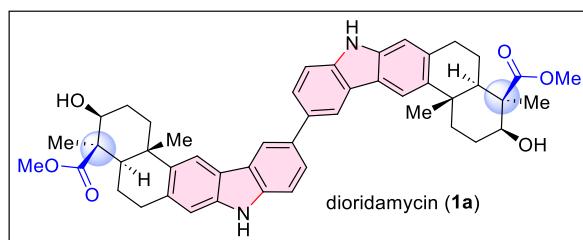
SK22-Jul-2024 15:42:15
SK-SSK-02032 (0.053) ls (1.00,1.00) C52H57N2O8

IISER - KOLKATA

1: TOF MS ES+
5.53e12

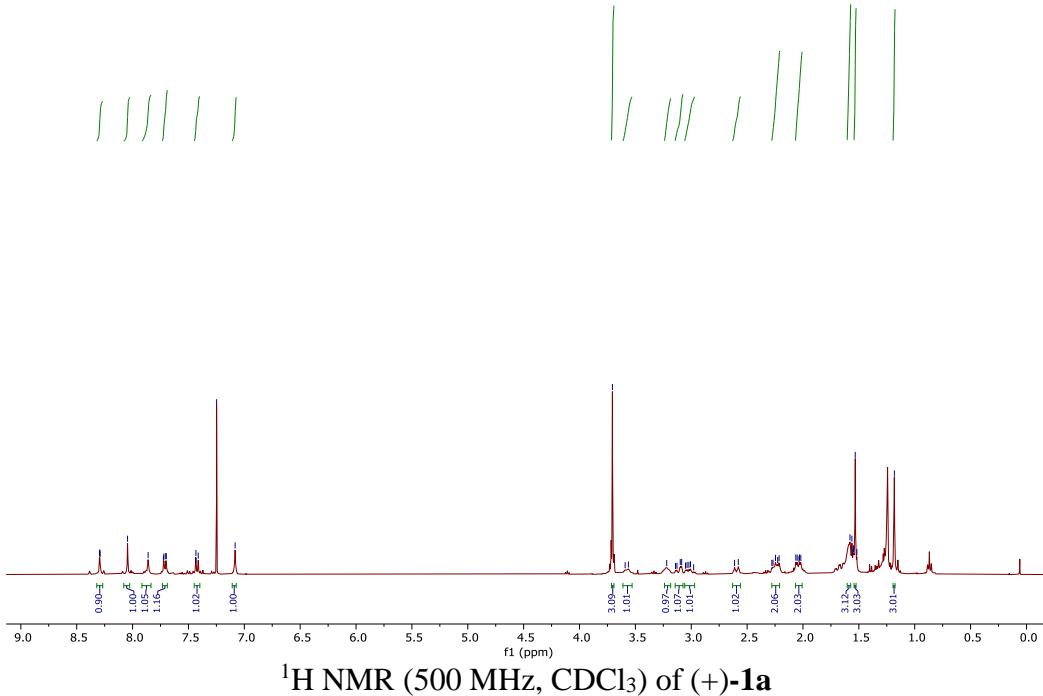


HRMS data of (+)-29



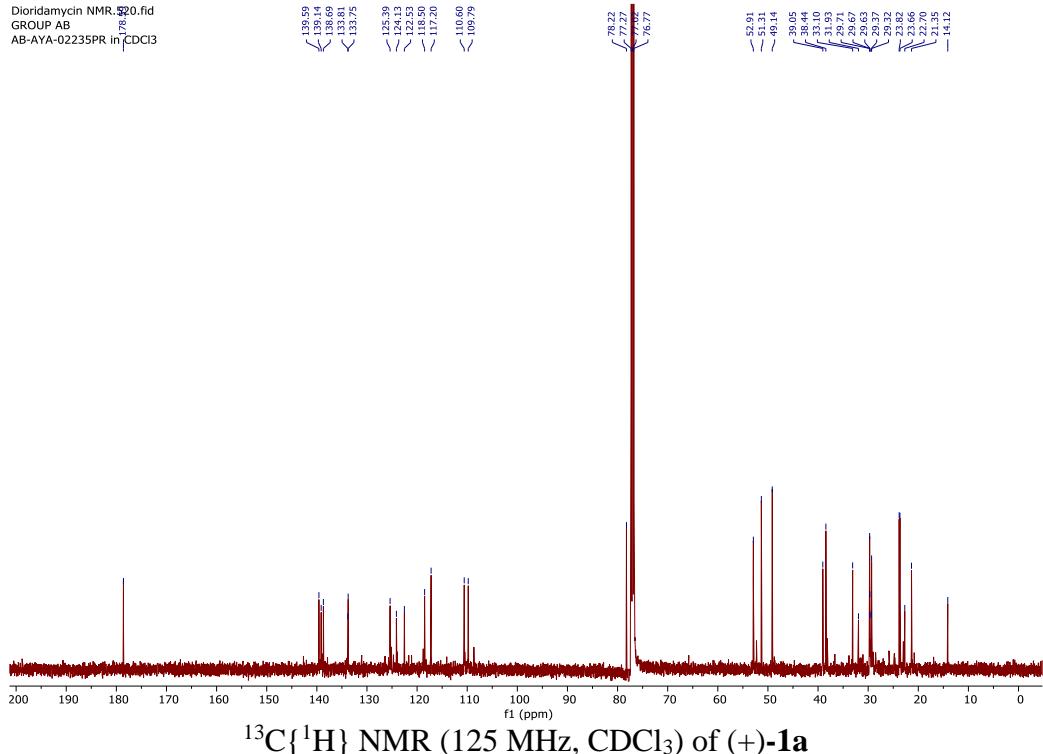
AB-SOV-02033
AB

8.33 8.30 8.29 8.04 7.96 7.72 7.72 7.70 7.43 7.41 7.25 ~ 7.08



Dioridamycin NMR_520.fid
GROUP AB
AB-AYA-02235PR In CDCl₃

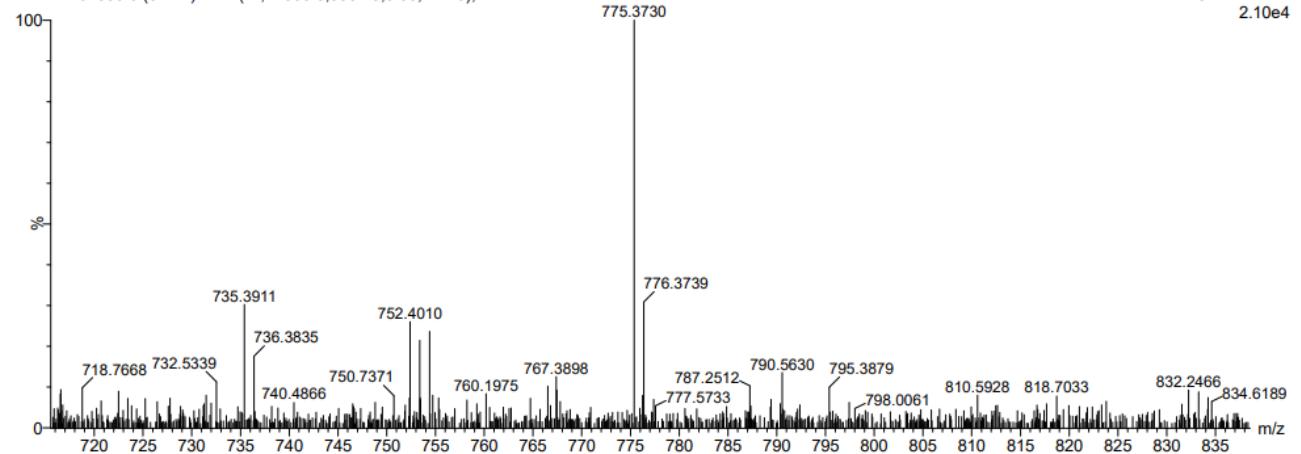
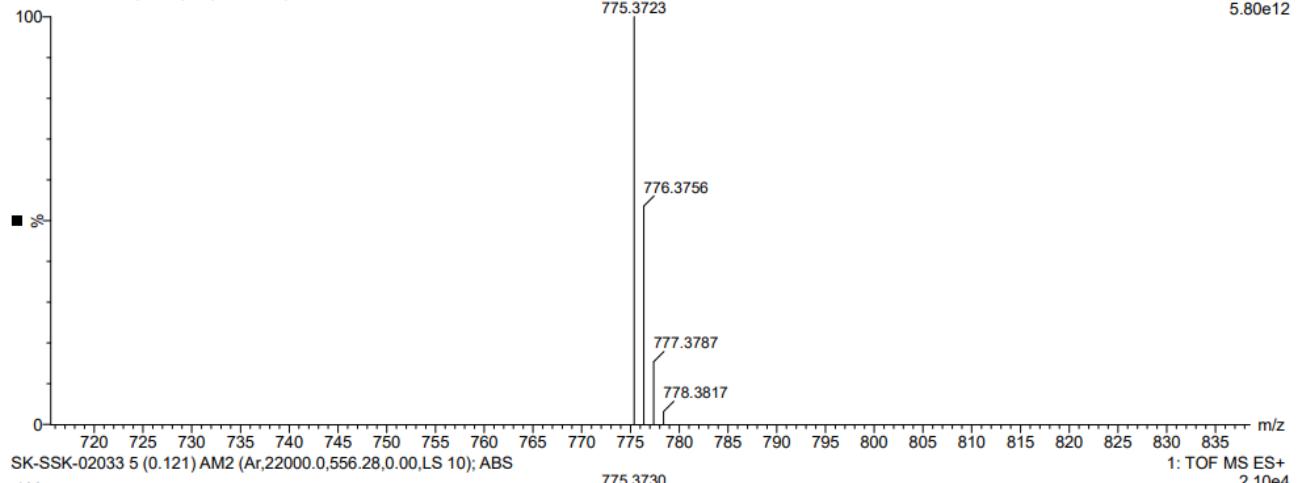
129.59 129.44 129.44 138.69 133.81 < 133.75 > 124.13 > 122.53 > 118.50 > 117.20 > 110.60 > 109.79



SK22-Jul-2024 15:40:42
SK-SSK-02033 (0.053) ls (1.00,1.00) C48H52N2O6Na

IISER - KOLKATA

1: TOF MS ES+
5.80e12



HRMS data of (+)-1a