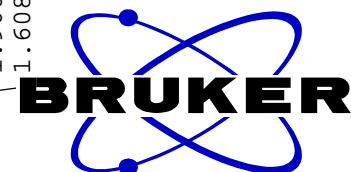
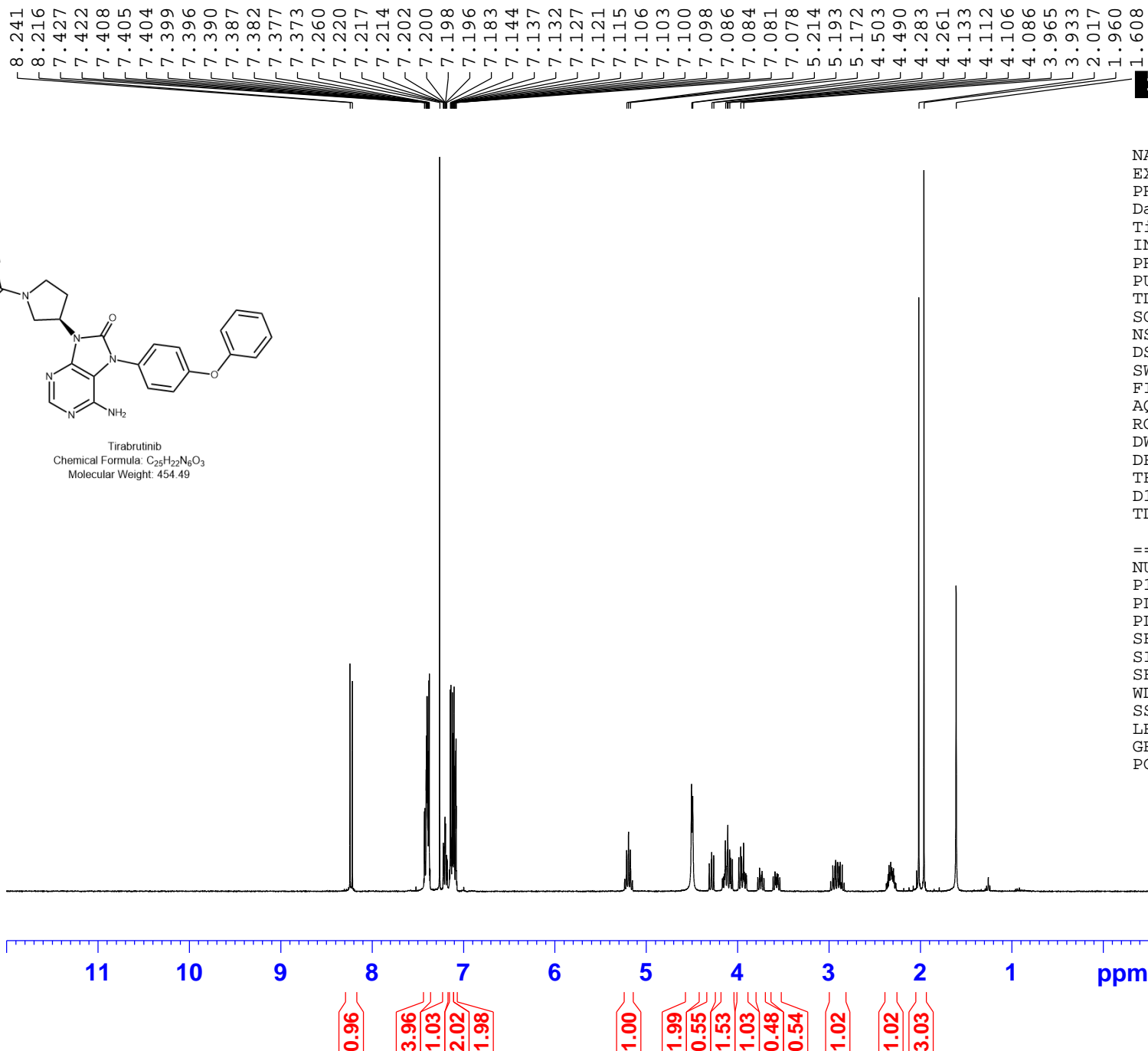


Tirabrutinib
Chemical Formula: C₂₅H₂₂N₆O₃
Molecular Weight: 454.49

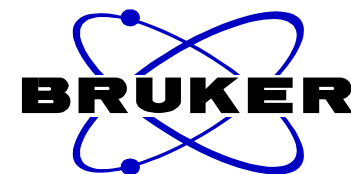


NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

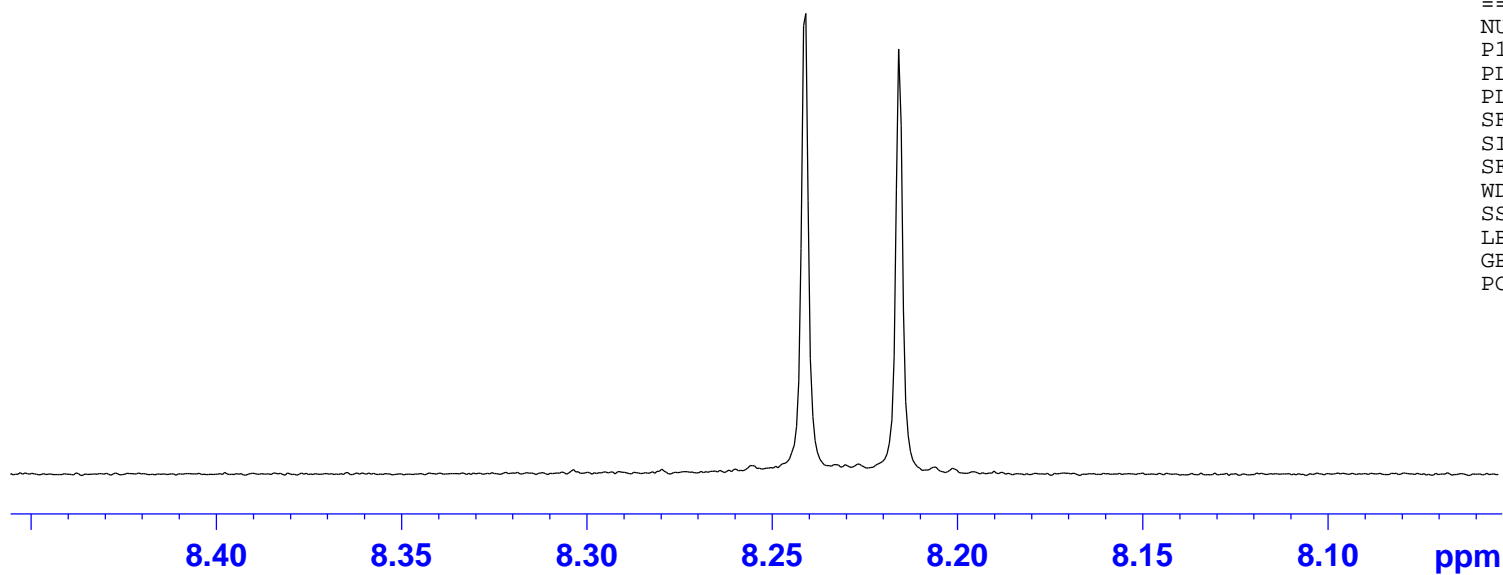
— 8.241

— 8.216



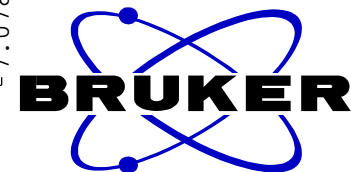
NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



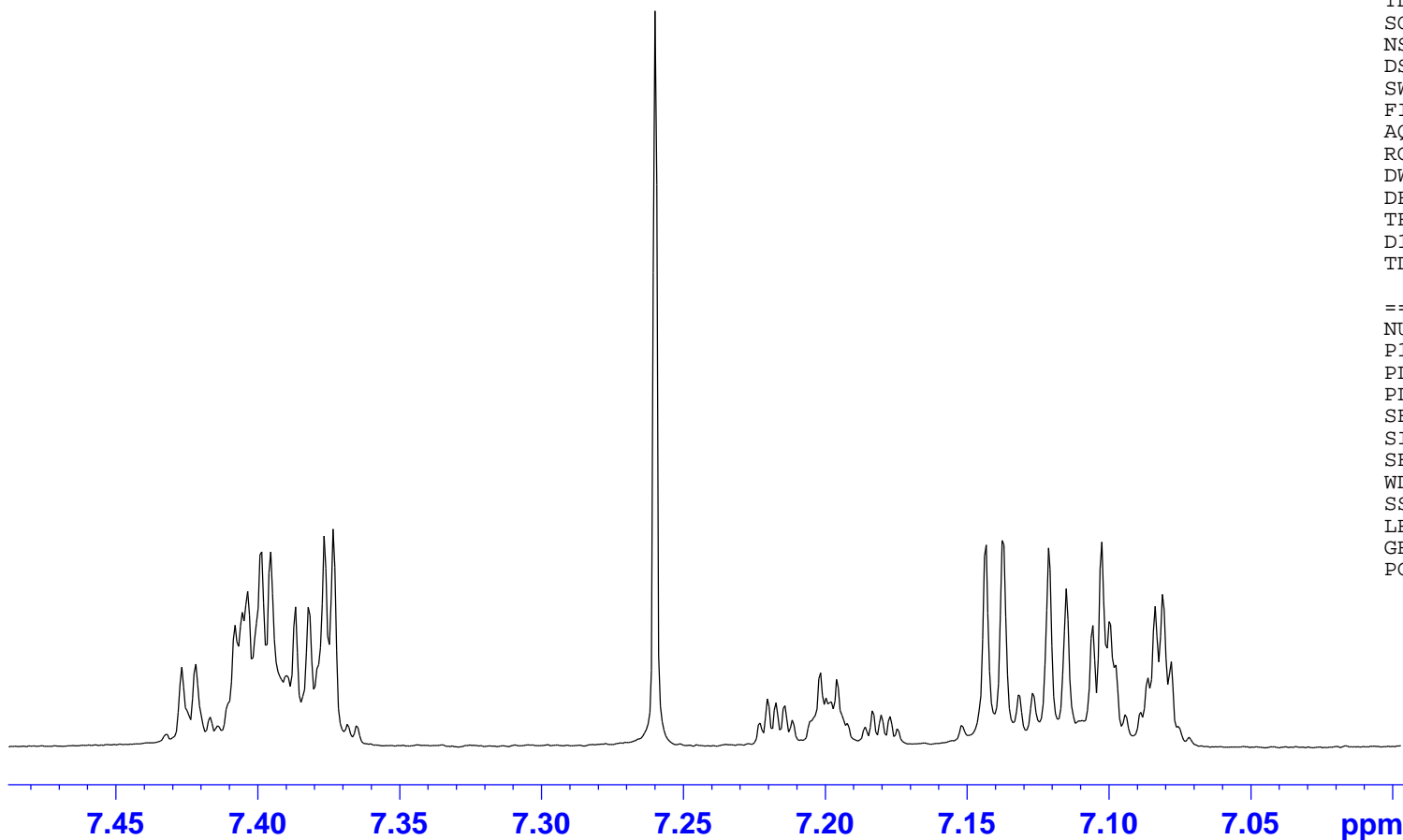
7.427
7.422
7.417
7.414
7.408
7.405
7.404
7.399
7.396
7.390
7.387
7.382
7.377
7.373
7.368
7.365

7.260
7.223
7.220
7.217
7.214
7.212
7.202
7.200
7.198
7.196
7.192
7.186
7.183
7.180
7.177
7.175
7.152
7.144
7.137
7.132
7.127
7.121
7.115
7.106
7.103
7.100
7.098
7.094
7.089
7.086
7.084
7.081
7.078



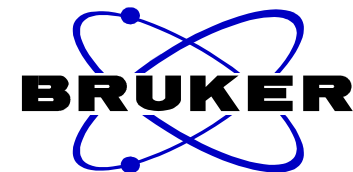
NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



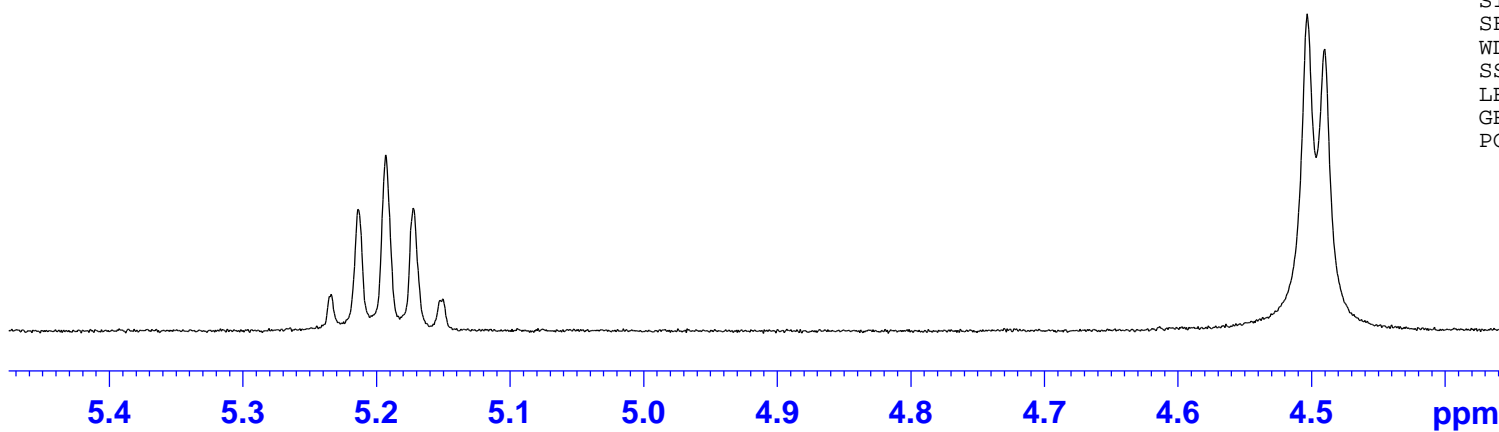
— 5.234
— 5.214
— 5.193
— 5.172
— 5.150

— 4.503
— 4.490



NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



1.00

1.99

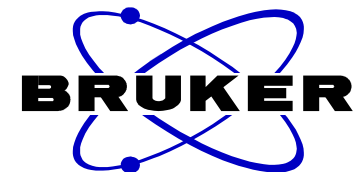
4.309
4.287
4.283
4.261

4.166
4.155
4.144
4.133
4.128
4.112
4.106
4.086
4.076
4.056

3.986
3.965
3.955
3.941
3.933
3.925
3.910
3.902

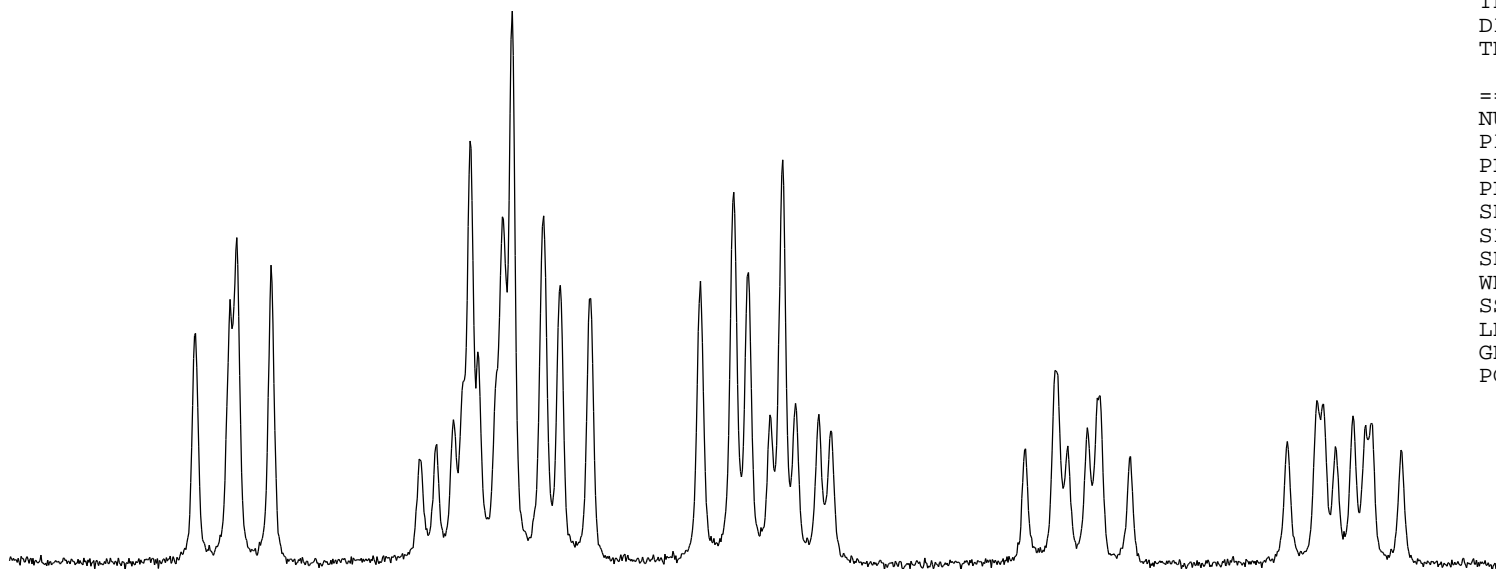
3.778
3.759
3.751
3.738
3.730
3.711

3.610
3.591
3.587
3.579
3.568
3.560
3.556
3.537



NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



4.4 4.3 4.2 4.1 4.0 3.9 3.8 3.7 3.6 ppm

0.55

1.53

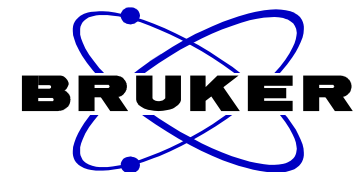
1.03

0.48

0.54

2.981
2.958
2.950
2.934
2.927
2.907
2.903
2.898
2.886
2.876
2.865
2.855
2.833

2.371
2.361
2.353
2.342
2.334
2.329
2.324
2.316
2.311
2.305
2.297
2.293
2.285
2.274
2.267



NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

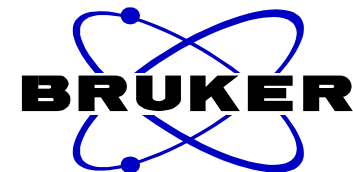
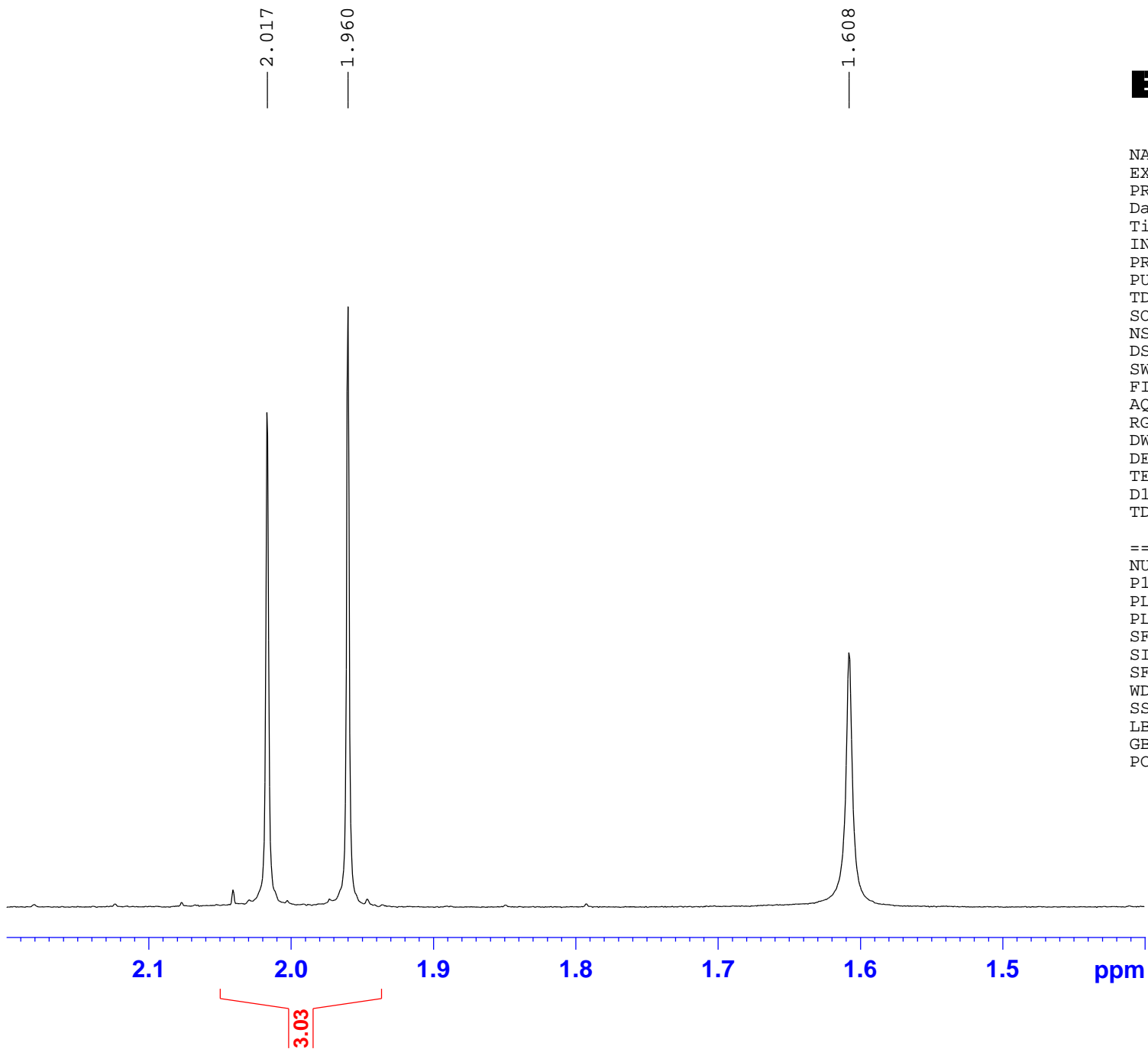
===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



3.1 3.0 2.9 2.8 2.7 2.6 2.5 2.4 2.3 ppm

1.02

1.02

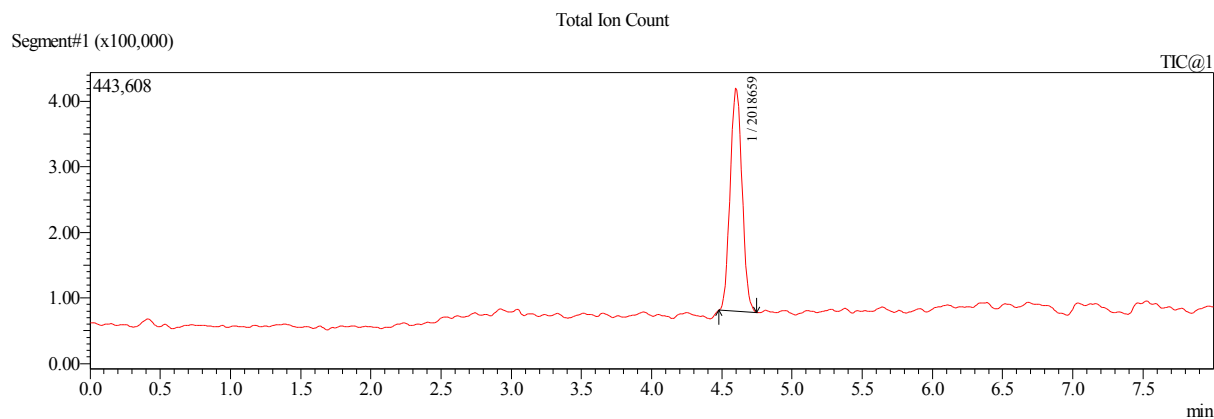
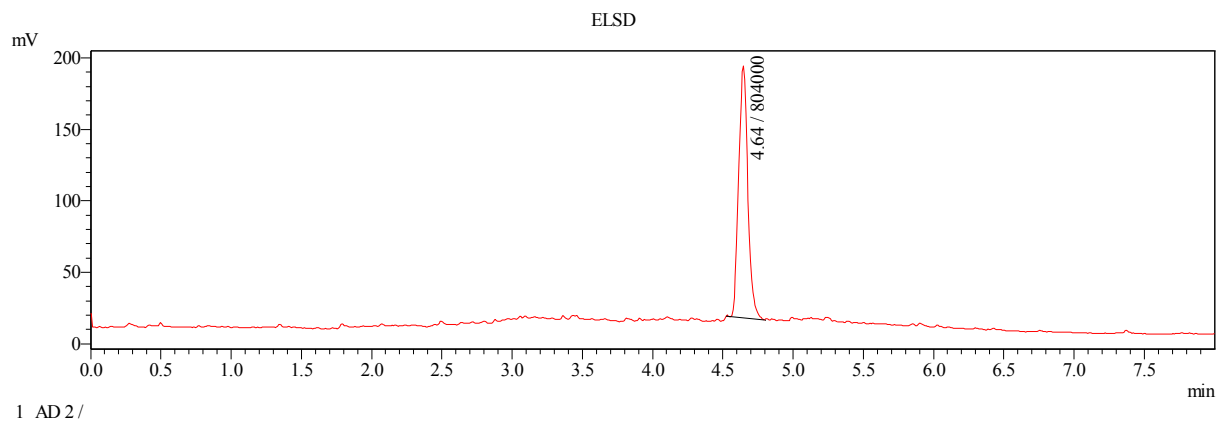
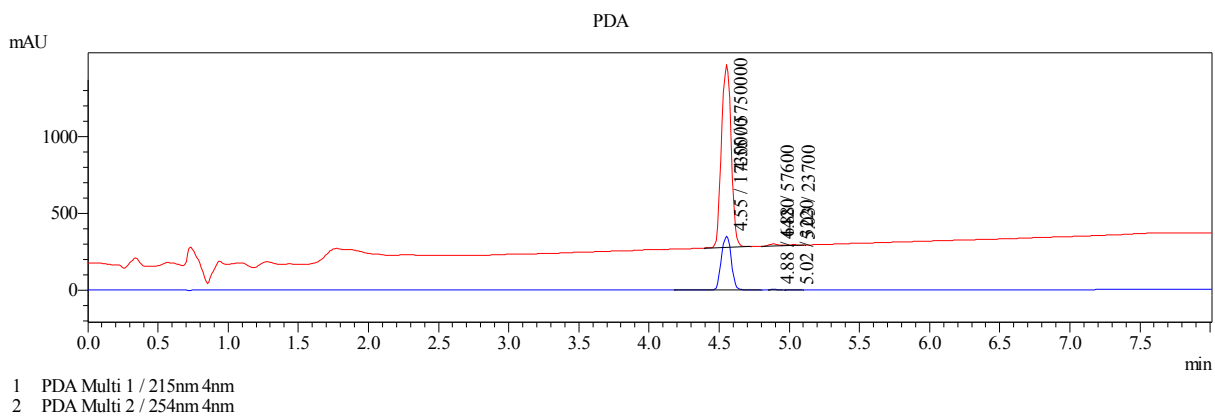


NAME NSC-797933-A1
EXPNO 1
PROCNO 1
Date_ 20170503
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 228
DW 60.800 usec
DE 6.50 usec
TE 300.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
PL1W 9.92195129 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300091 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

Sample Information

Date Acquired : 5/3/2017 1:16:05 PM
 Sample Name : NSC-797933-A1
 Sample ID : NSC-797933-A1
 Vial# : 64
 Injection Volume : 2
 Data File : NSC-797933-A1_532017_1240 PM_4.lcd
 Method File : POS-8min-5to95-100to1000amu.lcm
 Original Method : C:\LabSolutions\Data\2017\POS-8min-5to95-100to1000amu.lcm
 Tuning File : C:\LabSolutions\Data\Autotune.lct
 Modified Date : 5/4/2017 11:19:12 AM

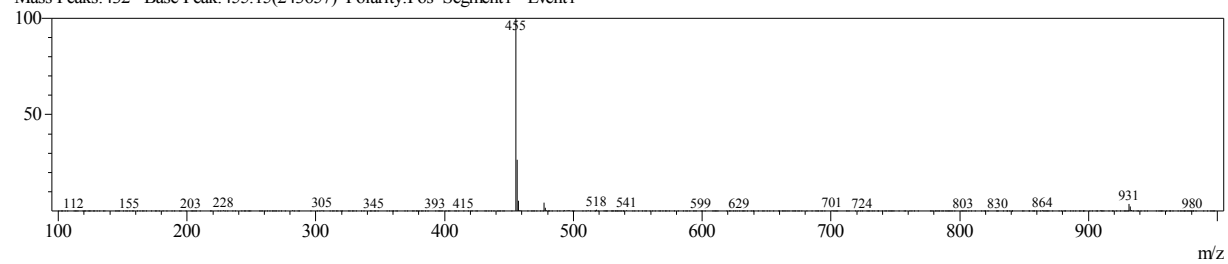


MS Spectrum Graph

#1 Ret. Time: Averaged 4.587-4.608(Scan#:431-433)

BG Mode: Calc 4.480<->4.747(421<->446)

Mass Peaks:432 Base Peak:455.15(243657) Polarity:Pos Segment1 - Event1



Sample Information

Date Acquired : 5/3/2017 1:16:05 PM
Sample Name : NSC-797933-A1
Sample ID : NSC-797933-A1
Vial# : 64
Injection Volume : 2
Data File : NSC-797933-A1_532017_1240 PM_4.lcd
Method File : POS-8min-5to95-100to1000amu.lcm
Original Method : C:\LabSolutions\Data\2017\POS-8min-5to95-100to1000amu.lcm
Tuning File : C:\LabSolutions\Data\Autotune.lct
Modified Date : 5/4/2017 11:19:12 AM

PDA Wavelength 1 PeakTable

PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Area %
1	4.550	5754155	98.605
2	4.884	57649	0.988
3	5.033	23730	0.407
Total		5835534	100.000

PDA Wavelength 2 Peak Table

PDA Ch2 254nm 4nm

Peak#	Ret. Time	Area	Area %
1	4.550	1726240	99.445
2	4.884	6421	0.370
3	5.020	3216	0.185
Total		1735878	100.000

ELSD Peak Table

ELSD Ch1

Peak#	Ret. Time	Area	Area %
1	4.644	803889	100.000
Total		803889	100.000

MS Peak Table TIC

Peak#	Ret. Time	Peak Start	Peak End	Area	Area%	Height	Height%	A/H	Mark
1	4.602	4.480	4.747	2018659	100.00	340419	100.00	5.92	
Total				2018659	100.00	340419	100.00		