

Name:	Sacubitril-¹³C₄ Calcium
Lot#:	GR-12-185
Test Date:	02/14/2024 (re-test date: 02/14/2029)
CAS No.:	1369773-39-6 (unlabeled); 149709-62-6 (free acid, unlabeled)
MF:	C ₂₀ ¹³ C ₄ H ₂₈ NO ₅ · 1/2Ca
MW:	434.50
Appearance:	Off-White Solid
Purity:	95.8% by HPLC; 99% atom ¹³ C
¹H-NMR:	Conforms (shows a trace of DIPEA)
MS-ESI (-)	Conforms (shows peak at m/z = 414.21 [M _{free acid-H} ⁻])
Storage	Store at -18°C in a dry place away from direct sunlight

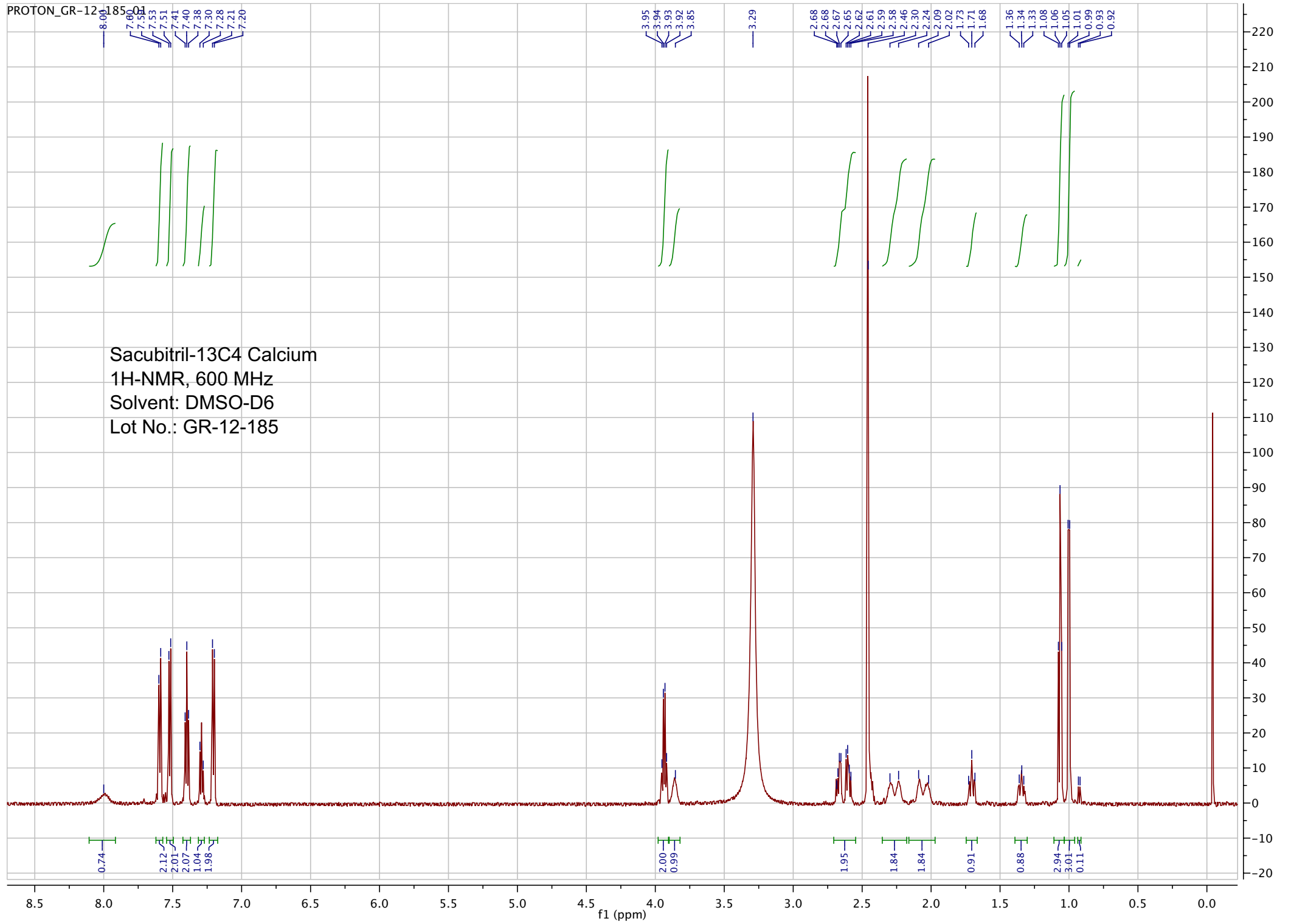
Approved by:

Date: 02/14/2024

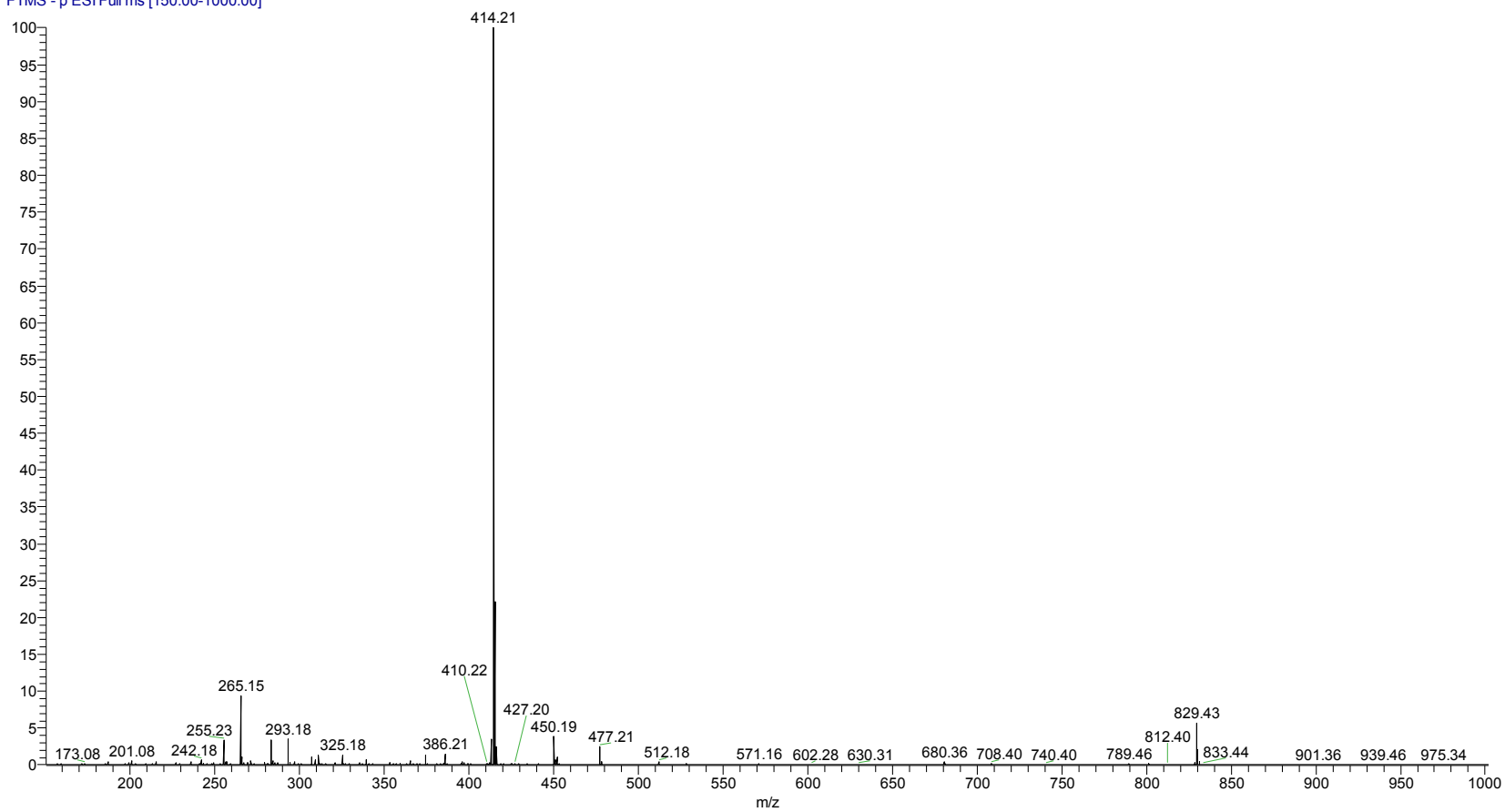


Viorica Rusu, QC/QA Manager

PROTON_GR-12-185-01

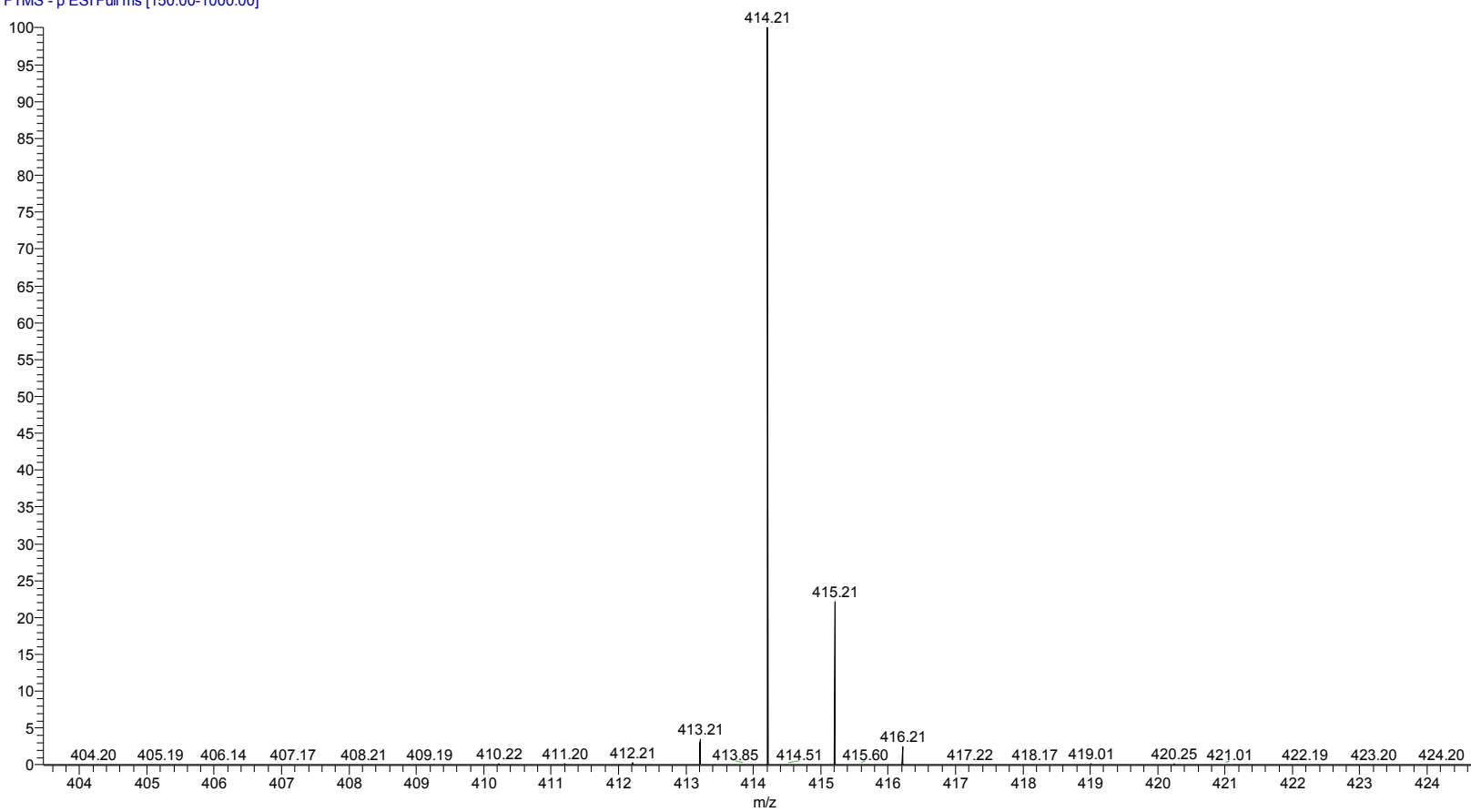


pp_2018_128_GR_12_185 #347-366 RT: 2.55-2.69 AV: 20 NL: 1.0
T: FTMS - p ESI Full ms [150.00-1000.00]



ESI-MS spectrum for sample GR-12-185. Shows monoisotopic [M-H]- mass.

pp_2018_128_GR_12_185 #347-366 RT: 2.55-2.69 AV: 20 NL: 1.0
T: FTMS - p ESI Full ms [150.00-1000.00]



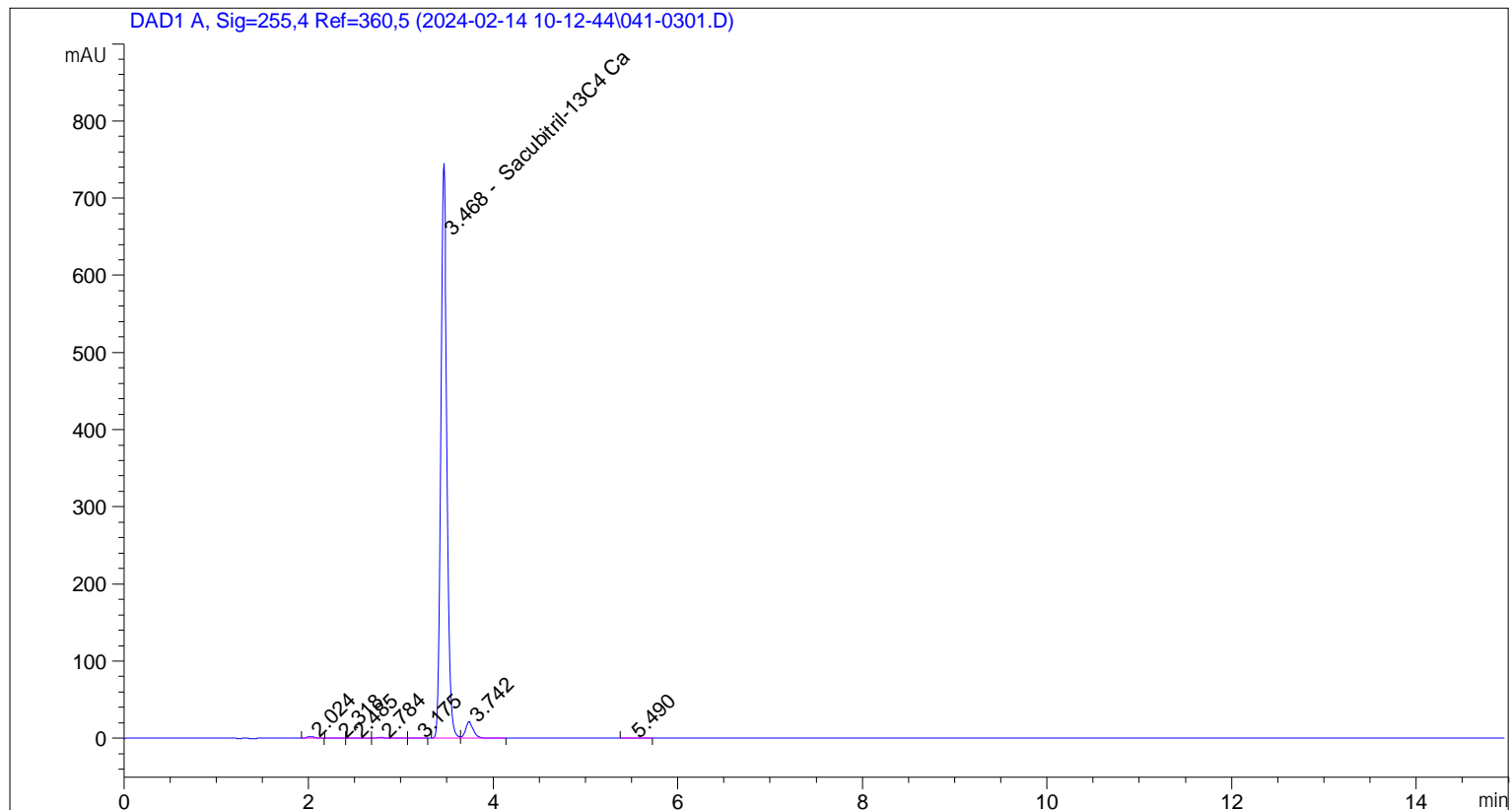
Expansion of above (+/- 10 Da from ion of interest).

m/z	Intensity	Relative
407.17	72262.7	0.07
407.21	70971.6	0.07
409.15	77783.4	0.07
409.19	108734.0	0.10
409.22	79103.1	0.08
410.22	216704.2	0.21
411.17	122124.1	0.12
411.20	146869.5	0.14
411.35	86819.9	0.08
412.21	357946.1	0.34
413.18	130477.7	0.12
413.21	3625323.8	3.47
414.21	104494384.0	100.00
415.21	23171798.0	22.18
416.21	2609370.0	2.50
417.22	94819.5	0.09
419.01	176309.6	0.17
420.25	148053.7	0.14
421.01	72276.0	0.07
423.20	100903.0	0.10

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Acq. Operator   : vrusu                               Seq. Line :    3
Acq. Instrument : Instrument 1                         Location  : Vial 41
Injection Date  : 2/14/2024 10:46:23 AM              Inj       :    1
                                                    Inj Volume: 5.0 µl

Acq. Method     : C:\CHEM32\1\DATA\2024-02-14 10-12-44\VR021424_185.M
Last changed    : 2/14/2024 10:12:10 AM by vrusu
Analysis Method  : C:\CHEM32\1\METHODS\VR021424_185PM.M
Last changed    : 2/14/2024 12:36:30 PM by vrusu
  
```



Area Percent Report

```

Sorted By           :      Signal
Calib. Data Modified :      2/14/2024 12:35:55 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=255,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.024	BB	0.0964	11.84408	0.3228	?
2	2.318	BV	0.0995	1.22603	0.0334	?
3	2.485	VV	0.0693	2.41495	0.0658	?
4	2.784	VB	0.0727	6.39822	0.1744	?
5	3.175	BB	0.0717	1.04685	0.0285	?
6	3.468	BV	0.0730	3513.41089	95.7412	Sacubitril-13C4 Ca
7	3.742	VB	0.0906	130.97902	3.5692	?
8	5.490	BB	0.1046	2.37570	0.0647	?

Sample Name: GR-12-185 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
Totals :				3669.69574		

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*** End of Report ***

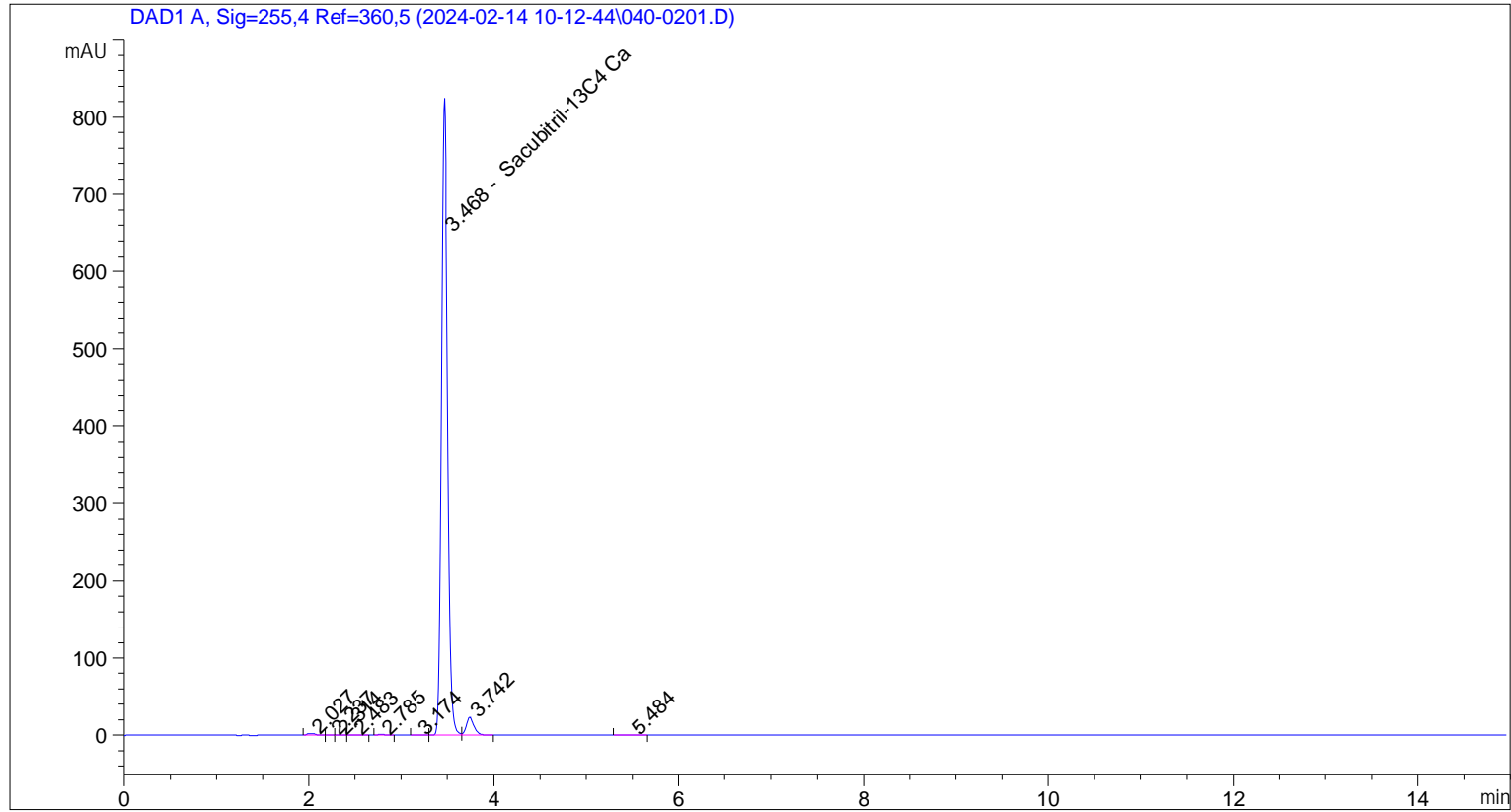
Sample Name: GR-12-185

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=====
Acq. Operator   : vrusu                               Seq. Line :    2
Acq. Instrument : Instrument 1                         Location  : Vial 40
Injection Date  : 2/14/2024 10:30:06 AM              Inj       :    1
                                                    Inj Volume: 5.0 µl

Acq. Method     : C:\CHEM32\1\DATA\2024-02-14 10-12-44\VR021424_185.M
Last changed    : 2/14/2024 10:12:10 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR021424_185PM.M
Last changed    : 2/14/2024 12:36:30 PM by vrusu
=====

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=====
                          Area Percent Report
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```

Sorted By      :      Signal
Calib. Data Modified : 2/14/2024 12:35:55 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=255,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.027	BV	0.0966	13.39262	0.3304	?
2	2.237	VV	0.0553	5.83796e-1	0.0144	?
3	2.314	VB	0.0501	4.82245e-1	0.0119	?
4	2.483	BB	0.0635	2.21939	0.0548	?
5	2.785	BB	0.0681	6.06961	0.1498	?
6	3.174	BB	0.0688	1.03682	0.0256	?
7	3.468	BV	0.0730	3885.76611	95.8725	Sacubitril-13C4 Ca
8	3.742	VB	0.0918	140.73100	3.4722	?

Sample Name: GR-12-185

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	5.484	BB	0.1175	2.77395	0.0684	?

Totals : 4053.05554

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*** End of Report ***