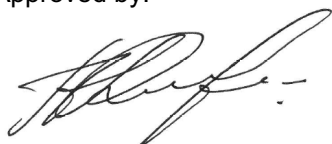


Name:	Sitagliptin-D ₄ HCl
Lot#:	GR-10-139
Test Date:	04/05/2022 (re-test date: 04/05/2027)
CAS No.:	486460-32-6 (unlabelled)
MF:	C ₁₆ H ₁₂ D ₄ ClF ₆ N ₅ O
MW:	447.80
Appearance:	White solid
Purity:	99.3% by HPLC (average of two sample preparations); 99% atom D
¹H-NMR:	Conforms (shows ~1.5% IPA)
MS-ESI (+)	Conforms (shows peak at m/z = 412.12 [M _{(free base)+H}] ⁺)

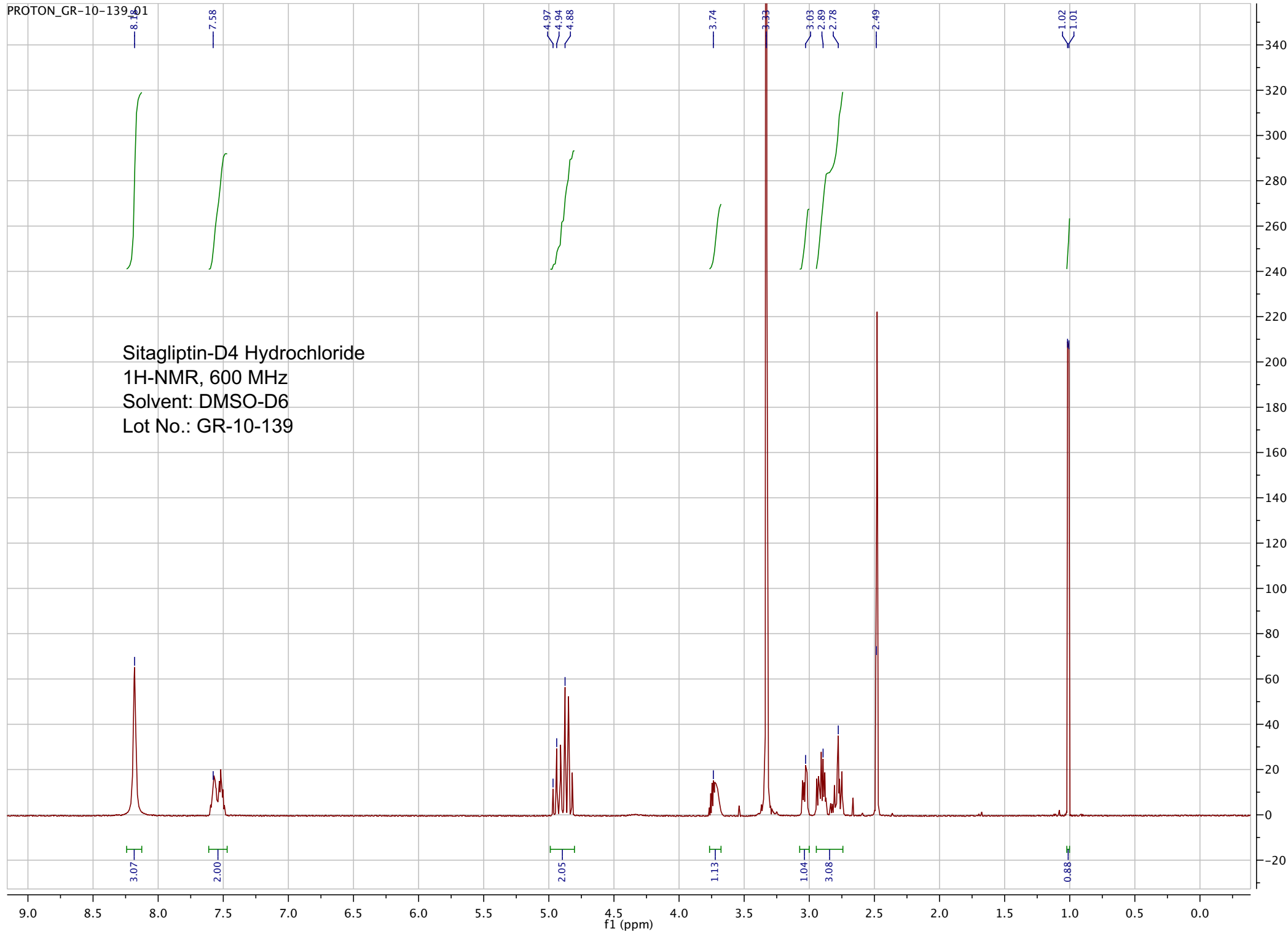
Approved by:

Date: 04/05/2022



Viorica Rusu, QC/QA Manager

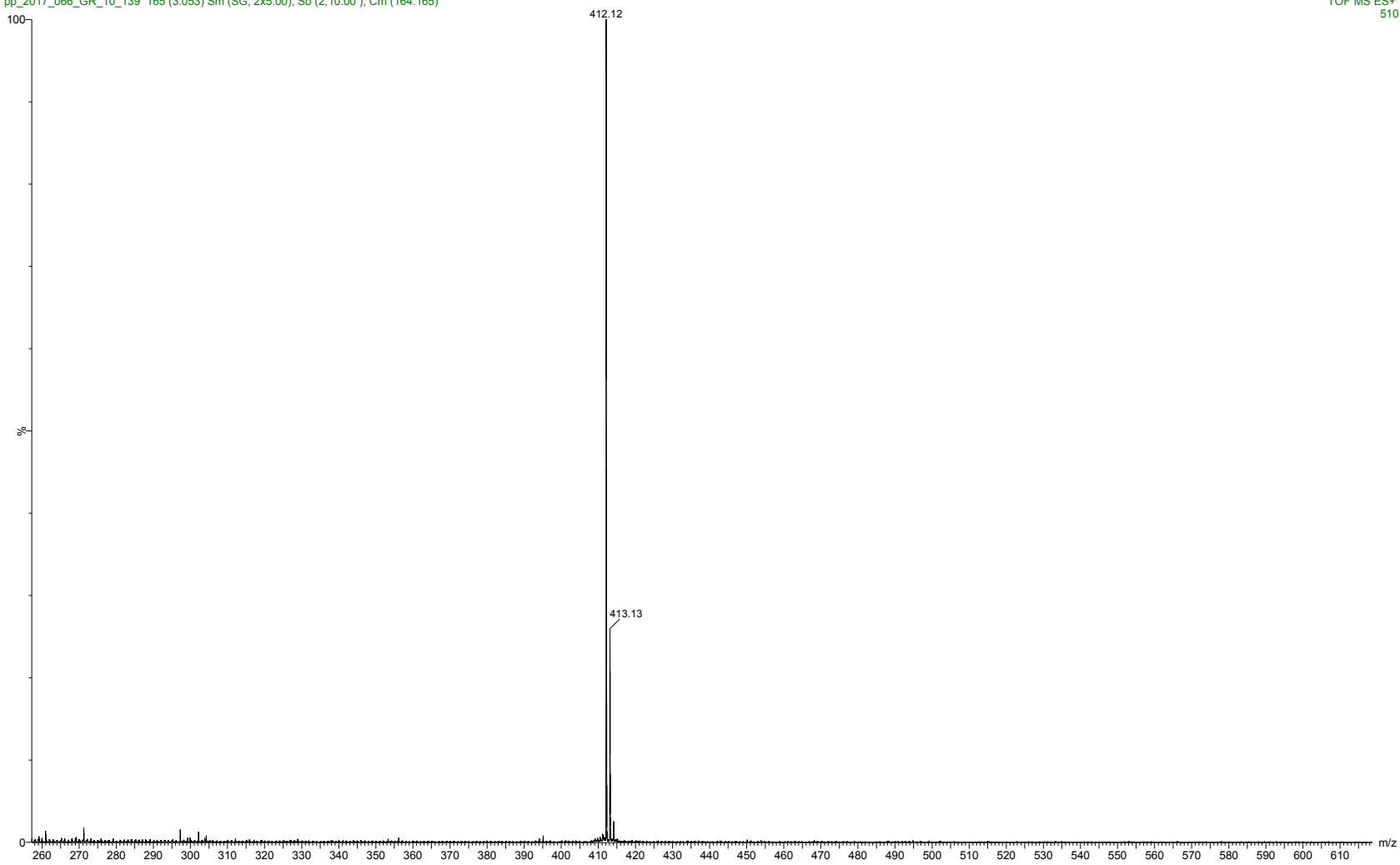
Sitagliptin-D4 Hydrochloride
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-10-139



pp_2017_066_GR_10_139 165 (3.053) Sm (SG, 2x5.00); Sb (2,10.00); Cm (164:165)

7.00000000

05-Jul-2017, 15:58:03
TOF MS ES+
510



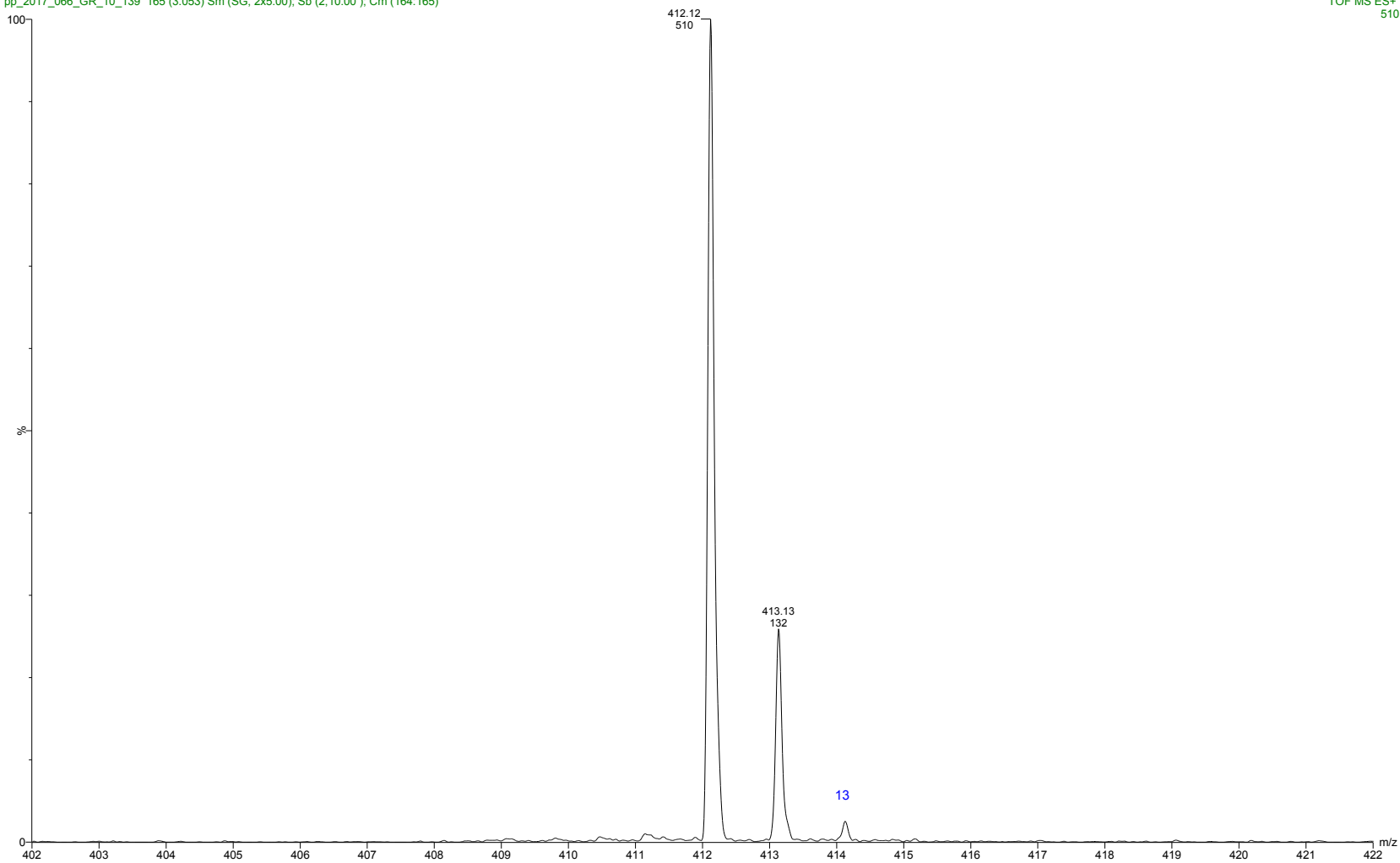
ESI-MS spectrum for sample GR-10-139. Shows monoisotopic [M+H]⁺ mass.

pp_2017_066_GR_10_139 165 (3.053) Sm (SG, 2x5.00); Sb (2,10.00); Cm (164:165)

7.00000000

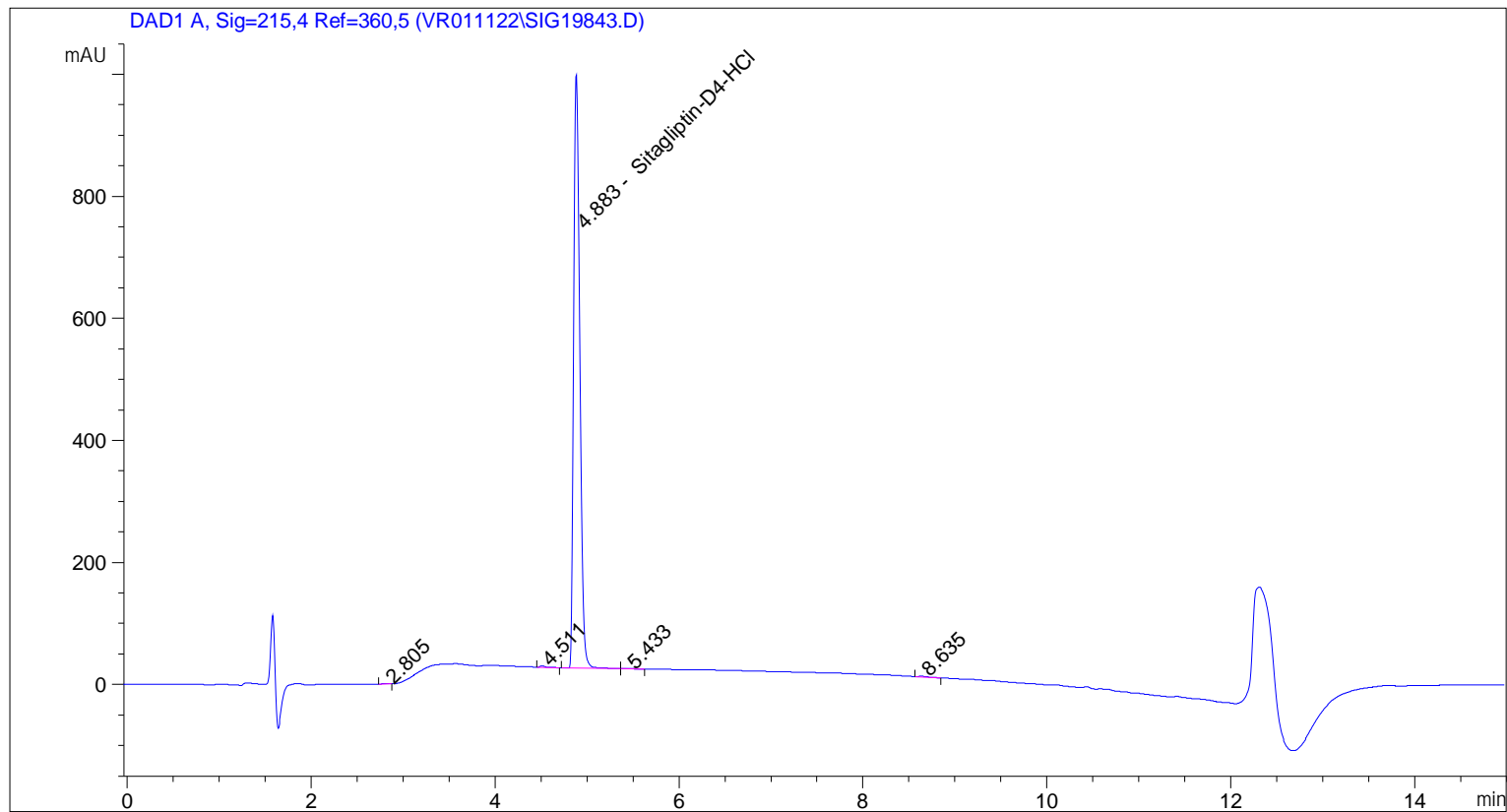
05-Jul-2017, 15:58:03

TOF MS ES+
510



Expansion of above showing intensity labels.

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 83
Injection Date : 4/5/2022 10:25:38 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR040522_139.M
Last changed : 4/5/2022 10:24:42 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR040522_139PM.M
Last changed : 4/5/2022 12:12:15 PM by vrusu



=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 4/5/2022 12:11:57 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=215,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.805	BB	0.0658	4.73247	0.1066	?
2	4.511	BB	0.0657	9.68056	0.2180	?
3	4.883	BV	0.0707	4412.71289	99.3616	Sitagliptin-D4-HCl
4	5.433	VB	0.0994	6.52005	0.1468	?
5	8.635	BB	0.0980	7.42073	0.1671	?

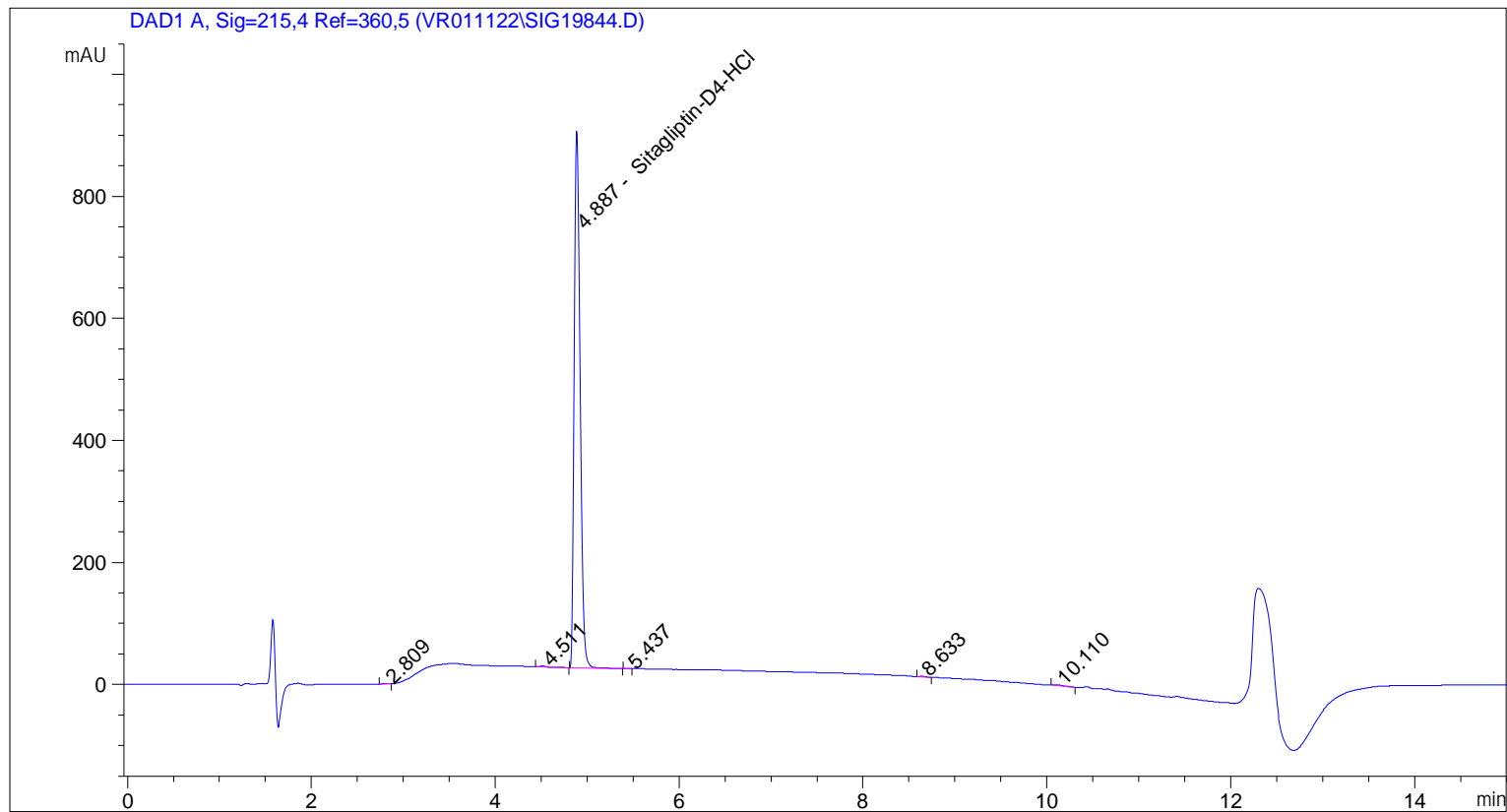
Totals : 4441.06670

=====

*** End of Report ***

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 84
Injection Date  : 4/5/2022 10:43:58 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR040522_139.M
Last changed    : 4/5/2022 10:43:00 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR040522_139PM.M
Last changed    : 4/5/2022 12:12:15 PM by vrusu
  
```



Area Percent Report

```

Sorted By           : Signal
Calib. Data Modified : 4/5/2022 12:11:57 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=215,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.809	BB	0.0614	3.20523	0.0828	?
2	4.511	BB	0.0814	12.83054	0.3316	?
3	4.887	BB	0.0687	3839.50049	99.2234	Sitagliptin-D4-HCl
4	5.437	BB	0.0443	7.55539e-1	0.0195	?
5	8.633	BB	0.0644	3.39365	0.0877	?
6	10.110	BBA	0.1043	9.86748	0.2550	?

Totals : 3869.55293

=====

*** End of Report ***