

Name:	Clobetasol-17-Propionate-D5
Lot#:	GR-12-029
Test Date:	07/20/2023 (re-test date: 07/20/2028)
CAS No.:	25122-46-7 (unlabeled)
MF:	C ₂₅ H ₂₇ D ₅ ClFO ₅
MW:	472.10
Appearance:	Off-White solid
Purity:	96.8% by HPLC (average of two sample preparations); 98% atom D
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peaks at m/z = 472.23, 474.24 [M+H] ⁺); 452.19, 454.19 [M-HF+H] ⁺ ; shows expected isotope pattern for mono-chloro- compounds)
Storage	Store at -18°C in a dry place away from direct sunlight

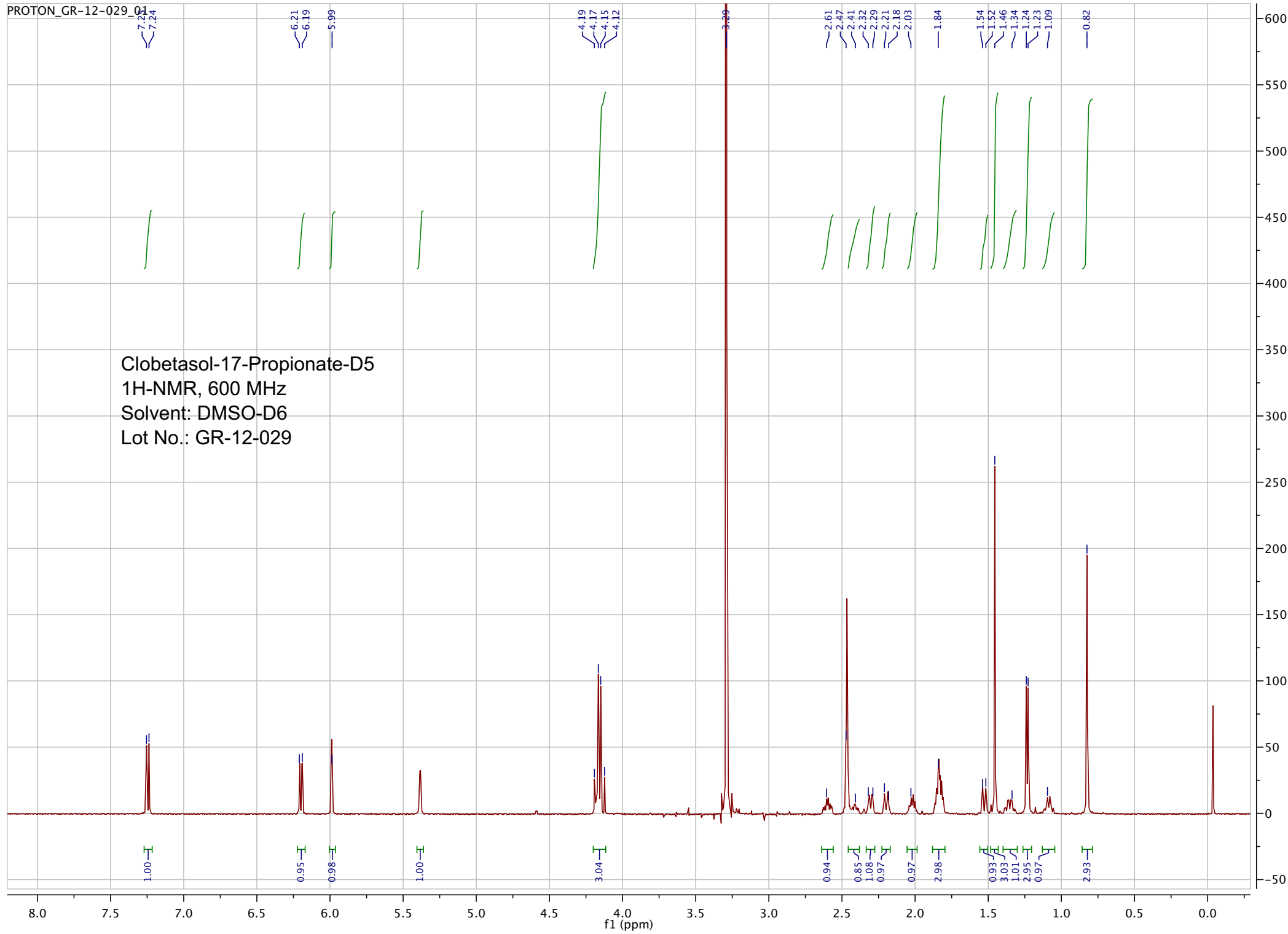
Approved by:

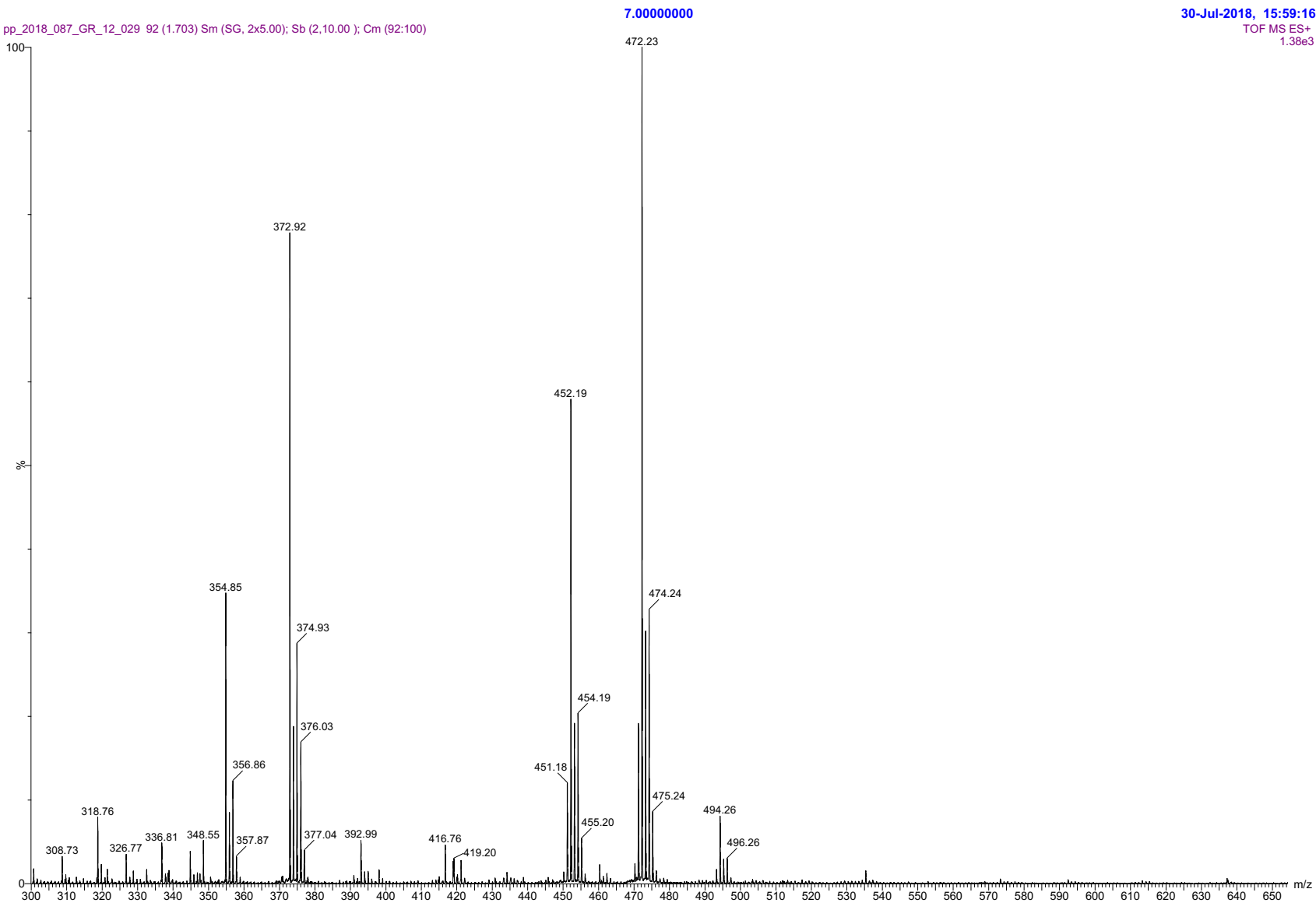
Date: 07/20/2023



Viorica Rusu, QC/QA Manager

Clobetasol-17-Propionate-D5
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-12-029



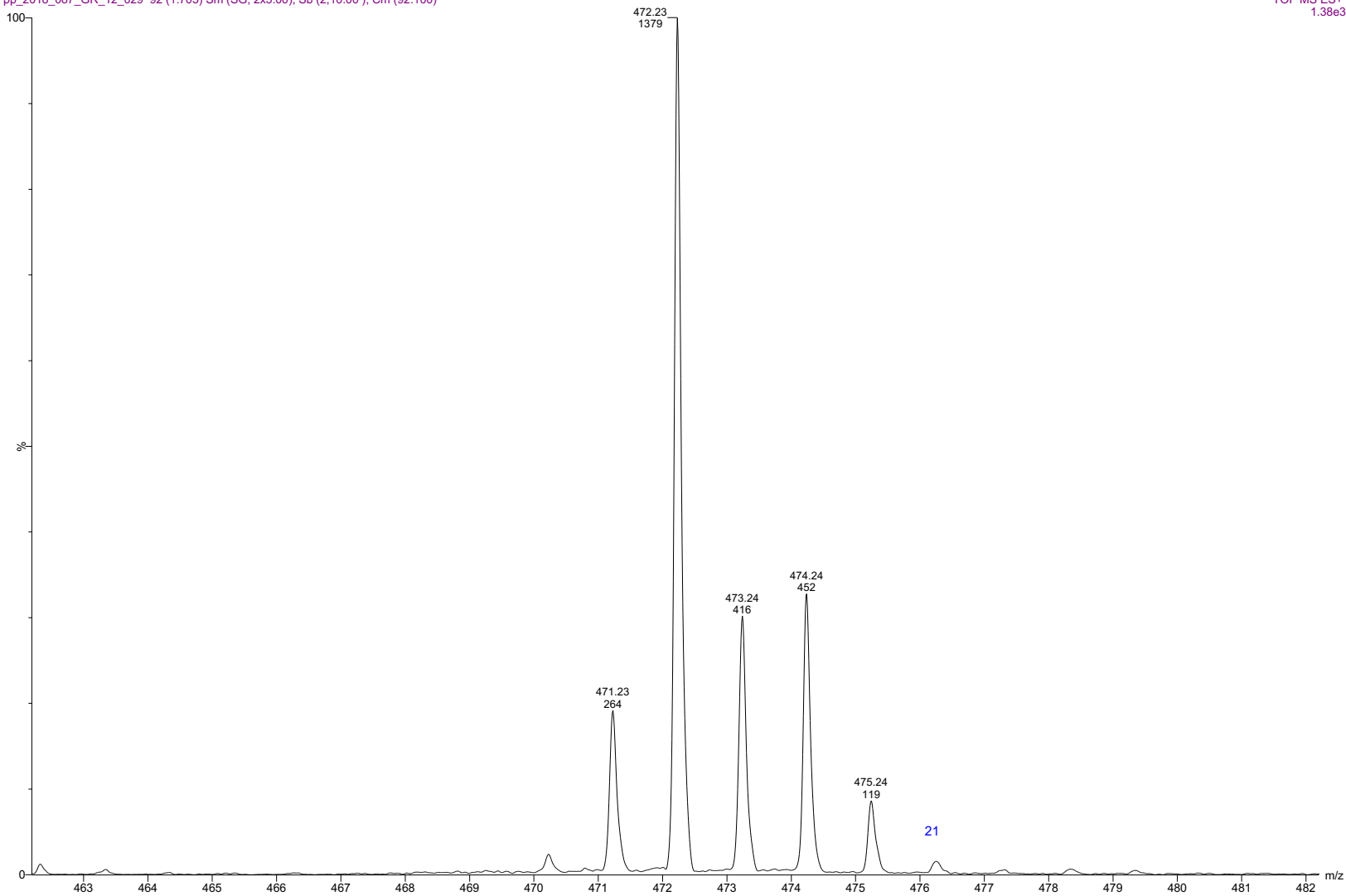


ESI-MS spectrum for sample GR-12-029. Shows monoisotopic [M+H]⁺ mass.

pp_2018_087_GR_12_029 92 (1.703) Sm (SG, 2x5.00); Sb (2,10.00); Cm (92:100)

7.00000000

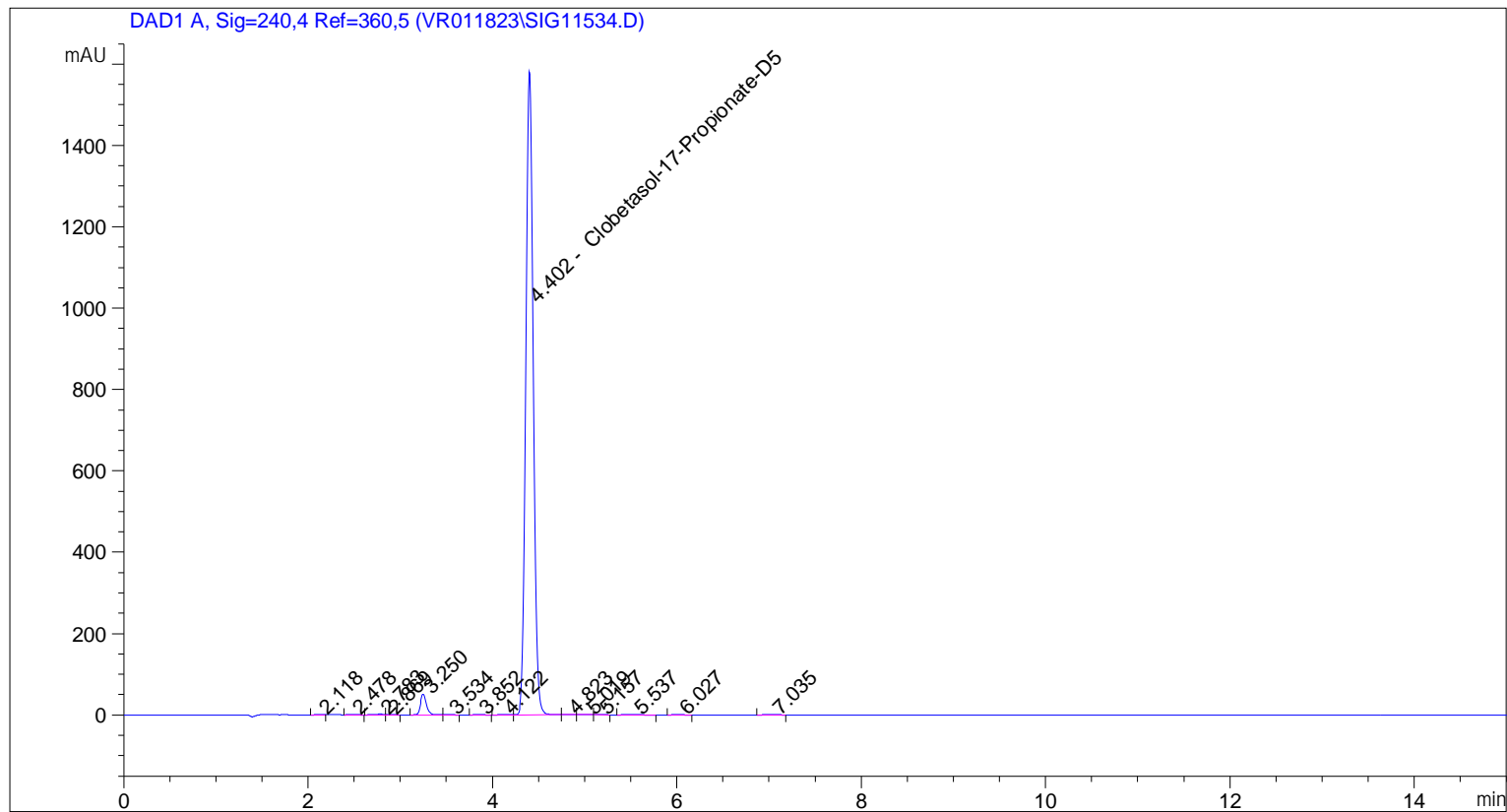
30-Jul-2018, 15:59:16
TOF MS ES+
1.38e3



Expansion of above showing intensity labels.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 90
Injection Date  : 7/20/2023 12:46:55 PM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR072023_029.M
Last changed   : 7/20/2023 12:45:50 PM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR072023_029PM.M
Last changed   : 7/20/2023 1:43:32 PM by vrusu
  
```



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 Area Percent Report
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Sorted By           : Signal
Calib. Data Modified : 7/20/2023 1:09:38 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.118	BV	0.0676	3.42474	0.0382	?
2	2.478	BB	0.0869	7.65934	0.0855	?
3	2.783	BV	0.0715	10.21262	0.1140	?
4	2.869	VB	0.0639	4.02078	0.0449	?
5	3.250	BV	0.0692	234.39651	2.6167	?
6	3.534	VB	0.0771	3.62858	0.0405	?
7	3.852	BB	0.0767	4.59671	0.0513	?
8	4.122	BV	0.0832	4.85706	0.0542	?

Sample Name: GR-12-029

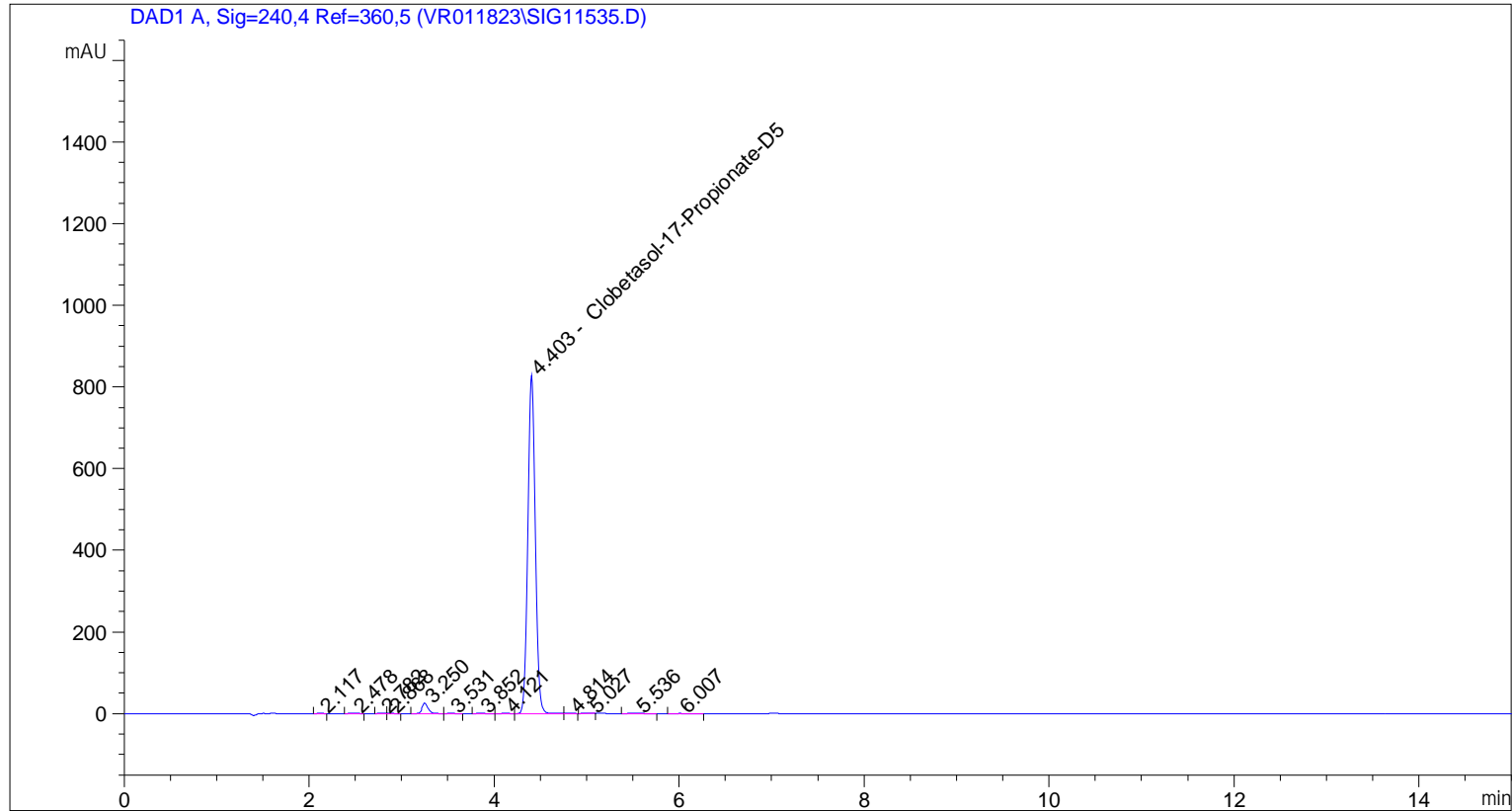
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.402	VV	0.0838	8661.29004	96.6909	Clobetasol-17-Propionate-D5
10	4.823	VB	0.0867	1.97483	0.0220	?
11	5.019	BV	0.1110	3.18014	0.0355	?
12	5.157	VB	0.0960	2.74123	0.0306	?
13	5.537	BB	0.1141	10.24549	0.1144	?
14	6.027	BB	0.0986	2.05326	0.0229	?
15	7.035	BB	0.1172	3.42407	0.0382	?

Totals : 8957.70541

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 91
Injection Date  : 7/20/2023 1:06:06 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR072023_029.M
Last changed    : 7/20/2023 1:05:02 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR072023_029PM.M
Last changed    : 7/20/2023 1:43:32 PM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      7/20/2023 1:09:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.117	BB	0.0598	1.78032	0.0382	?
2	2.478	BB	0.0911	4.32444	0.0928	?
3	2.782	BV	0.0636	4.85456	0.1042	?
4	2.868	VB	0.0590	1.81888	0.0391	?
5	3.250	BV	0.0715	118.12764	2.5361	?
6	3.531	VB	0.0850	2.31341	0.0497	?
7	3.852	BB	0.0781	2.65242	0.0569	?
8	4.121	BV	0.0804	2.60480	0.0559	?

Sample Name: GR-12-029 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.403	VV	0.0855	4510.32129	96.8342	Clobetasol-17-Propionate-D5
10	4.814	VB	0.0780	9.99269e-1	0.0215	?
11	5.027	BB	0.0975	9.58300e-1	0.0206	?
12	5.536	BB	0.1232	5.31101	0.1140	?
13	6.007	BB	0.1207	1.71261	0.0368	?

Totals : 4657.77894

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*** End of Report ***