

Name:	21-Dehydro Flunisolid Hydrate
Lot#:	GR-14-291
Test Date:	05/15/2025 (re-test date: 05/15/2030)
CAS No.:	1188271-69-3
MF:	C ₂₄ H ₃₁ FO ₇ , C ₂₄ H ₂₉ FO ₆ , (anhydro form)
MW:	450.50, 432.48 (anhydro form)
Appearance:	White Solid
Purity:	99.5% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms (NMR in DMSO-D6 shows the hydrate form only)
MS-ESI (+)	Conforms (shows peaks at m/z = 433.20 [M _{anhydro} +H] ⁺ , 451.21 [M+H ₂ O+H] ⁺ , [M+MeOH+H] ⁺ shows aldehyde and hydrate forms)
Storage	Store at 0-8°C in a dry place away from direct sunlight

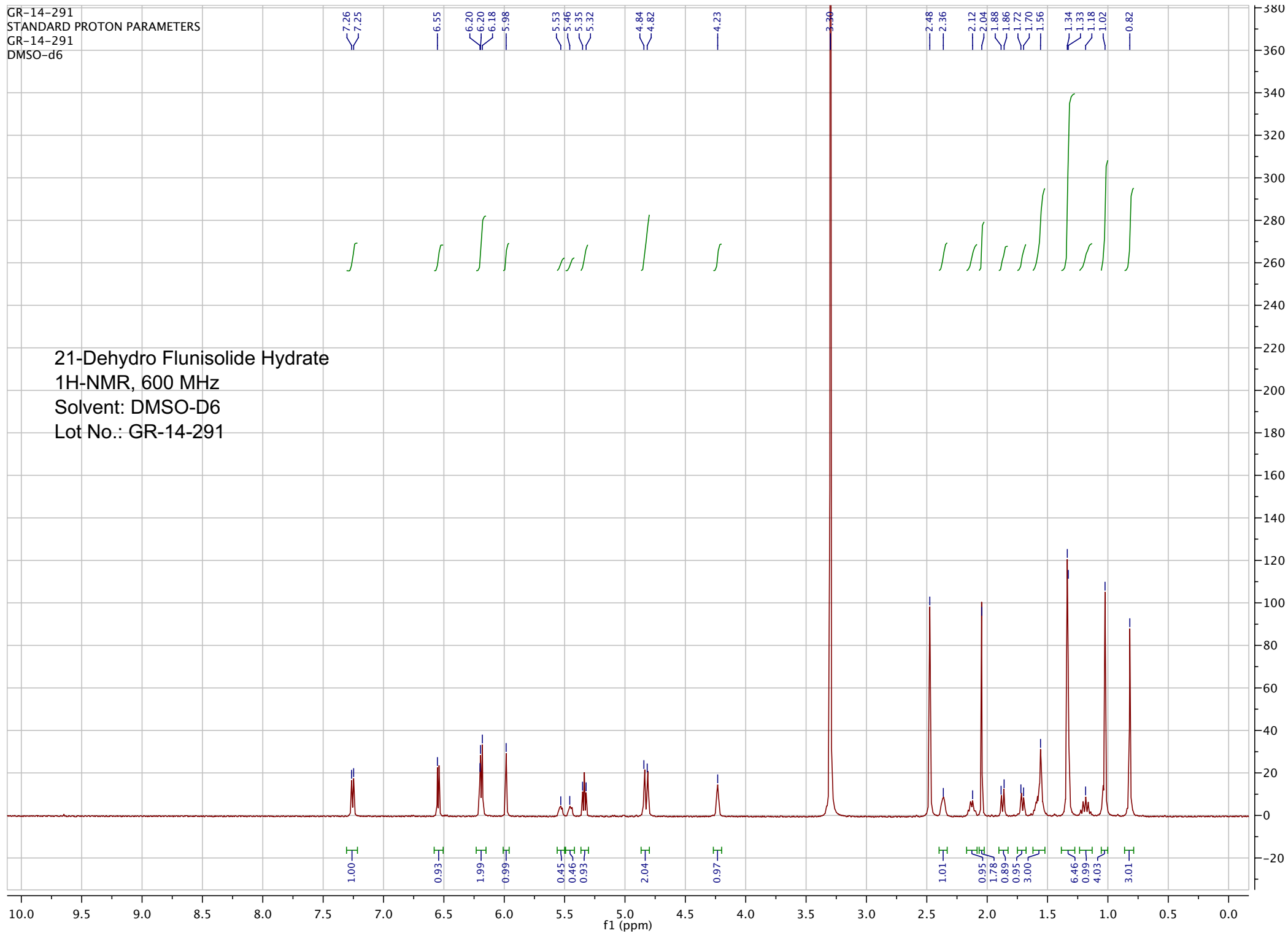
Approved by:

Date: 05/27/2025

Viorica Rusu, QC/QA Manager

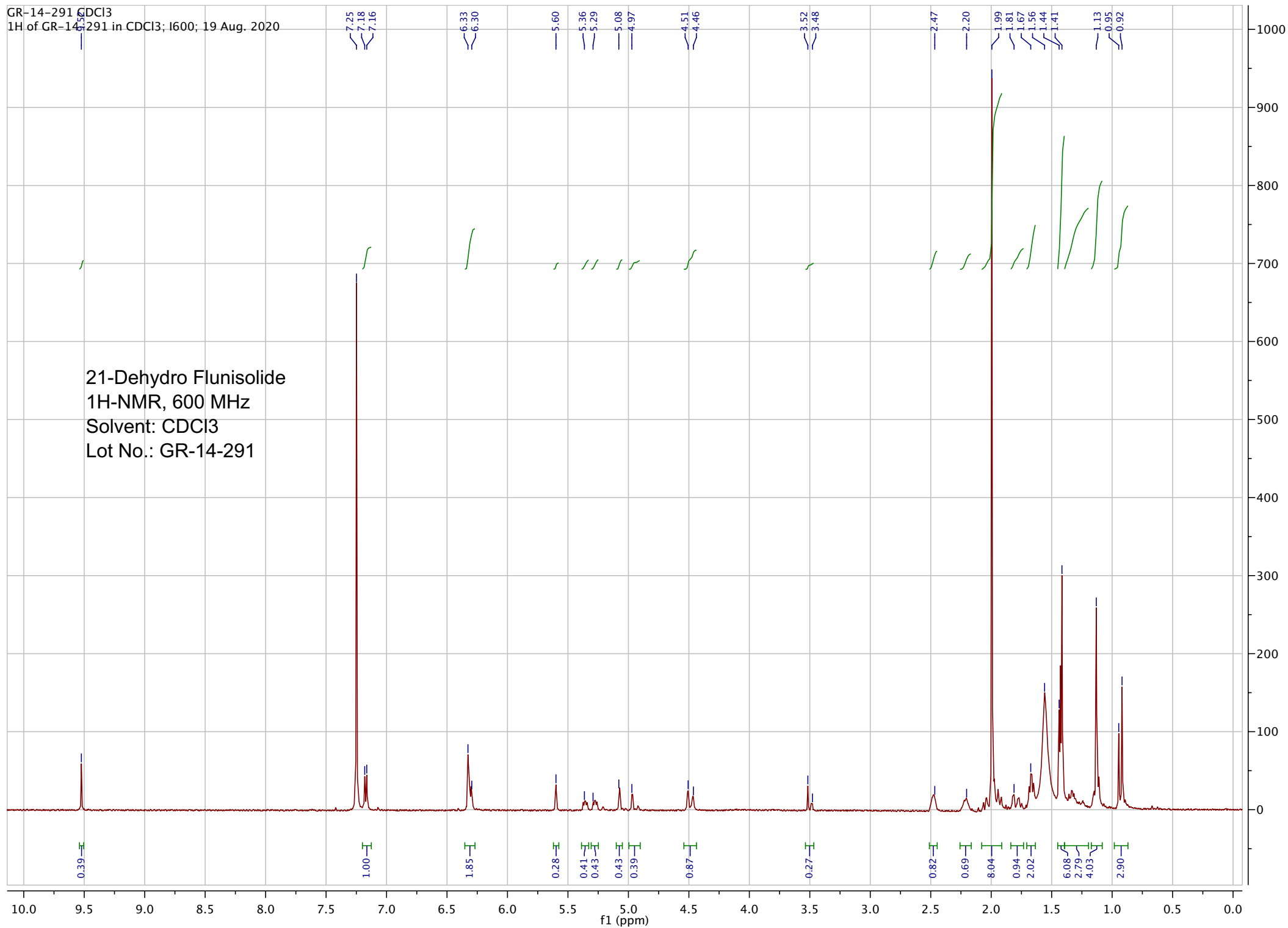
GR-14-291
STANDARD PROTON PARAMETERS
GR-14-291
DMSO-d6

21-Dehydro Flunisolid Hydrate
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-14-291

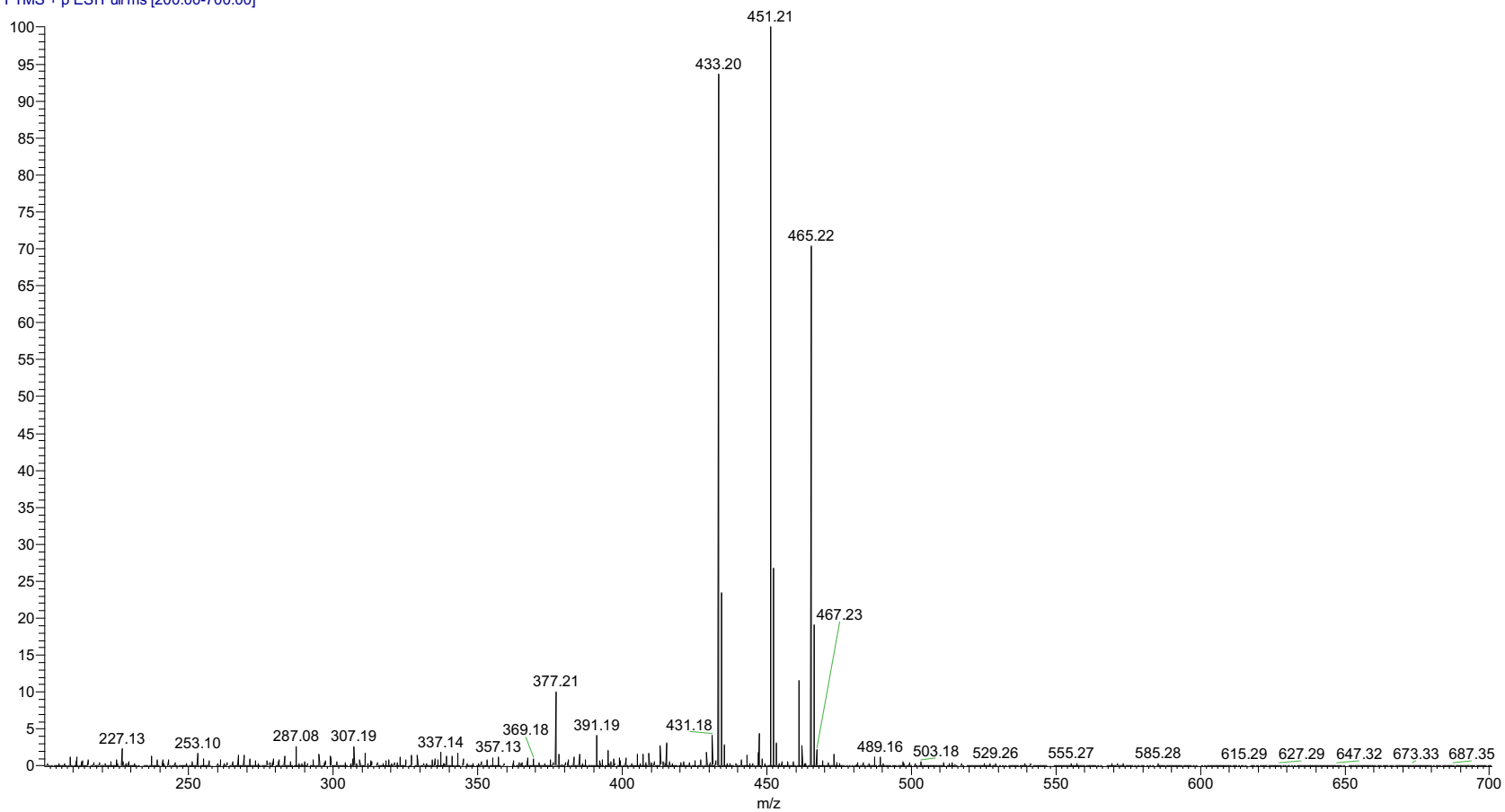


GR-14-291 CDCl3
1H of GR-14-291 in CDCl3; 1600; 19 Aug. 2020

21-Dehydro Flunisolid
1H-NMR, 600 MHz
Solvent: CDCl3
Lot No.: GR-14-291



pp_2020_015_GR14291_001 #217-220 RT: 1.57-1.59 AV: 4 NL: 2.6
T: FTMS + p ESI Full ms [200.00-700.00]



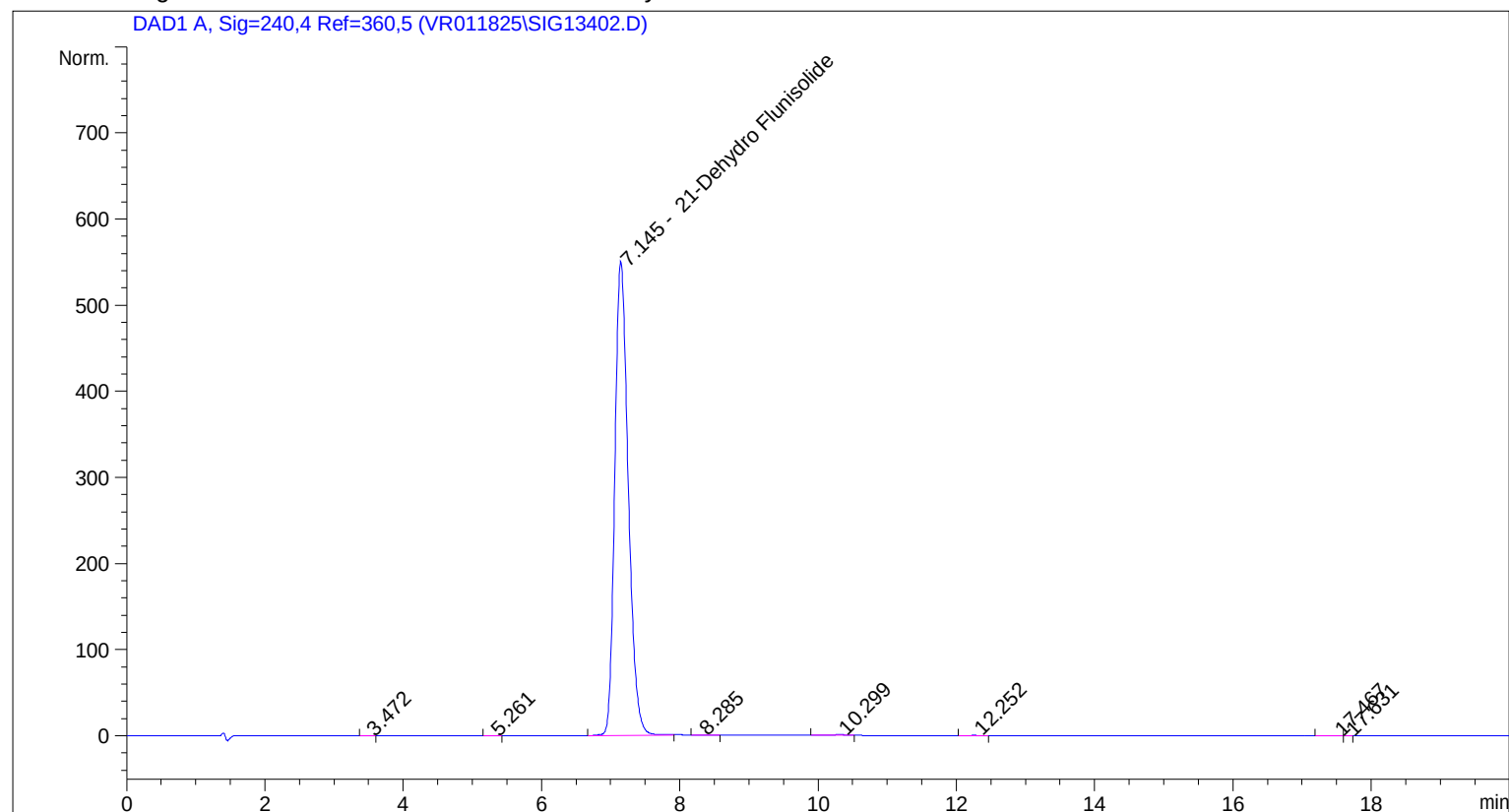
ESI-MS spectrum for sample GR-14-291. Shows monoisotopic $[M+H]^+$ mass.

Sample Name: GR-14-291 spl-2

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 18
Injection Date : 5/15/2025 3:49:20 PM Inj Volume : 10.0 µl

Acq. Method : C:\CHEM32\1\METHODS\VR051525_291.M
Last changed : 5/15/2025 3:48:13 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR051525_291PM.M
Last changed : 5/15/2025 4:23:39 PM by vrusu



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 5/15/2025 4:23:14 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	3.472	BB	0.0924	1.25743	0.0169	?
2	5.261	BB	0.0805	1.74294	0.0234	?
3	7.145	BV	0.2077	7436.22803	99.6612	21-Dehydro Flunisolide
4	8.285	BB	0.1407	2.22988	0.0299	?
5	10.299	BB	0.1717	11.60860	0.1556	?
6	12.252	BB	0.1505	3.60788	0.0484	?
7	17.467	BV	0.1966	3.62467	0.0486	?
8	17.631	VV	0.0776	1.20889	0.0162	?

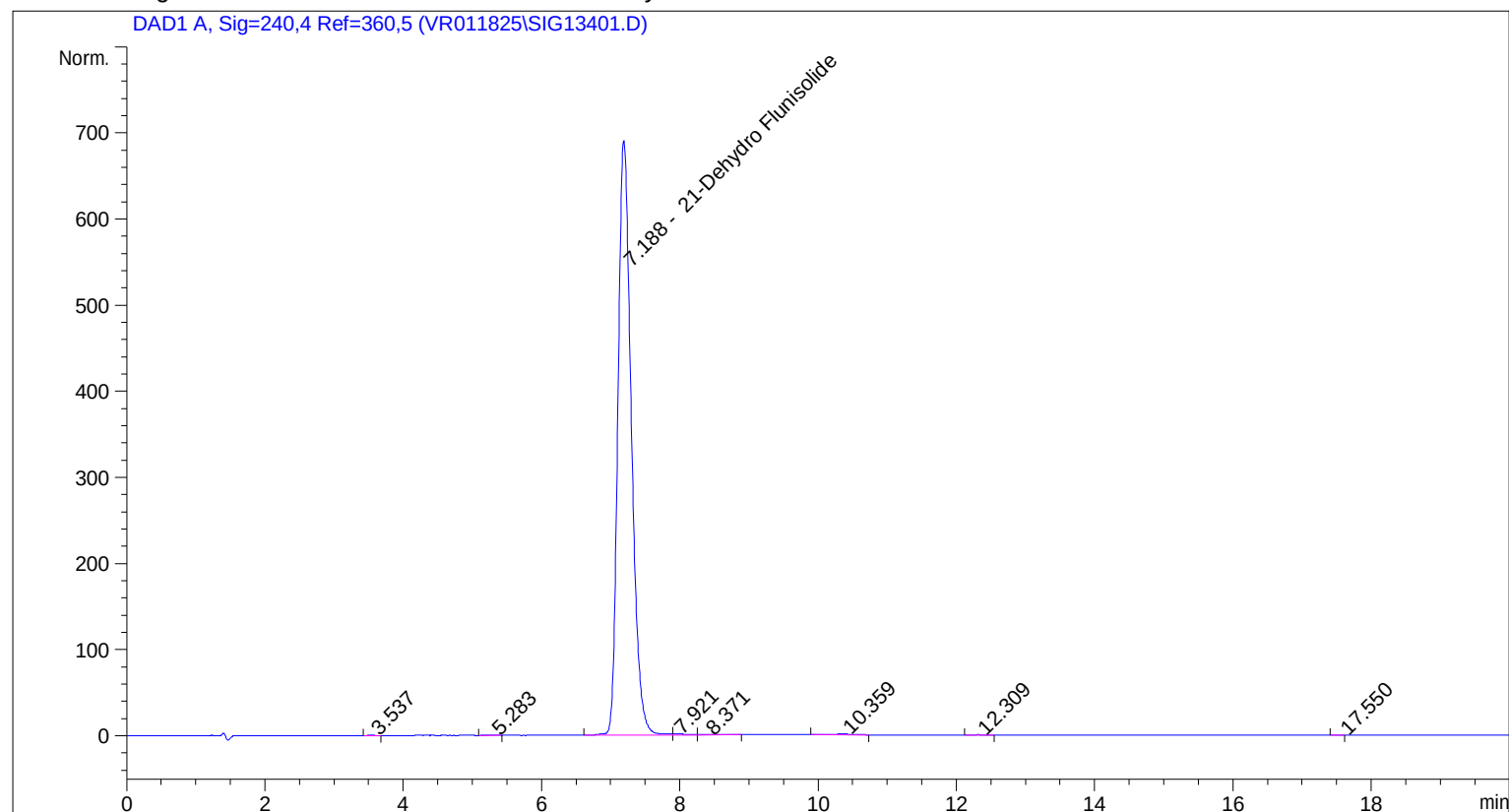
Sample Name: GR-14-291 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
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Totals :				7461.50831		

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*** End of Report ***

Sample Name: GR-14-291

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 17
Injection Date  : 5/15/2025 3:23:52 PM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR051525_291.M
Last changed    : 5/15/2025 3:22:51 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR051525_291PM.M
Last changed    : 5/15/2025 4:23:39 PM by vrusu
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                        Area Percent Report
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Sorted By           :      Signal
Calib. Data Modified :      5/15/2025 4:23:14 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
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Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.537	VB	0.0813	2.32022	0.0248	?
2	5.283	BB	0.1059	3.36277	0.0359	?
3	7.188	BV	0.2070	9293.79102	99.3236	21-Dehydro Flunisolid
4	7.921	VV	0.1952	17.90656	0.1914	?
5	8.371	VV	0.2656	14.69612	0.1571	?
6	10.359	VB	0.2257	19.47871	0.2082	?
7	12.309	VB	0.1478	3.95388	0.0423	?
8	17.550	BV	0.0976	1.56882	0.0168	?

Sample Name: GR-14-291

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
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Totals :				9357.07810		

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*** End of Report ***