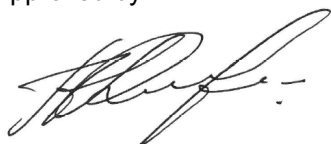


Name:	20α-Dihydrodydrogesterone
Lot#:	GR-19-183
Test Date:	01/14/2025 (re-test date: 01/14/2030)
CAS No.:	4243-74-7
MF:	C ₂₁ H ₃₀ O ₂
MW:	314.47
Appearance:	Pale yellow solid
Purity:	98.9% by HPLC
¹H-NMR:	Conforms
MS-DART (+)	Conforms (shows peak at m/z = 315.23 [M+H] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

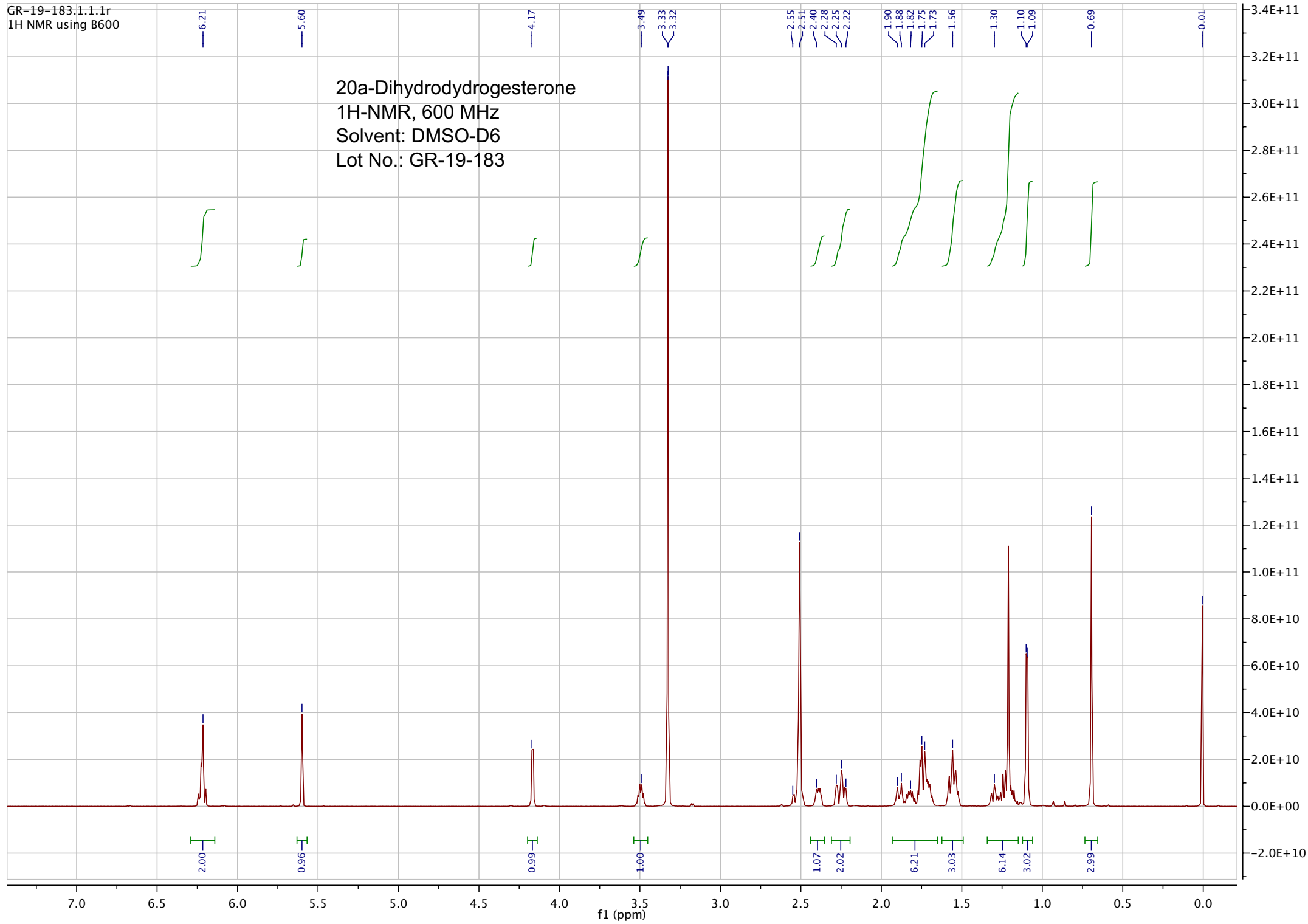
Date: 01/14/2025

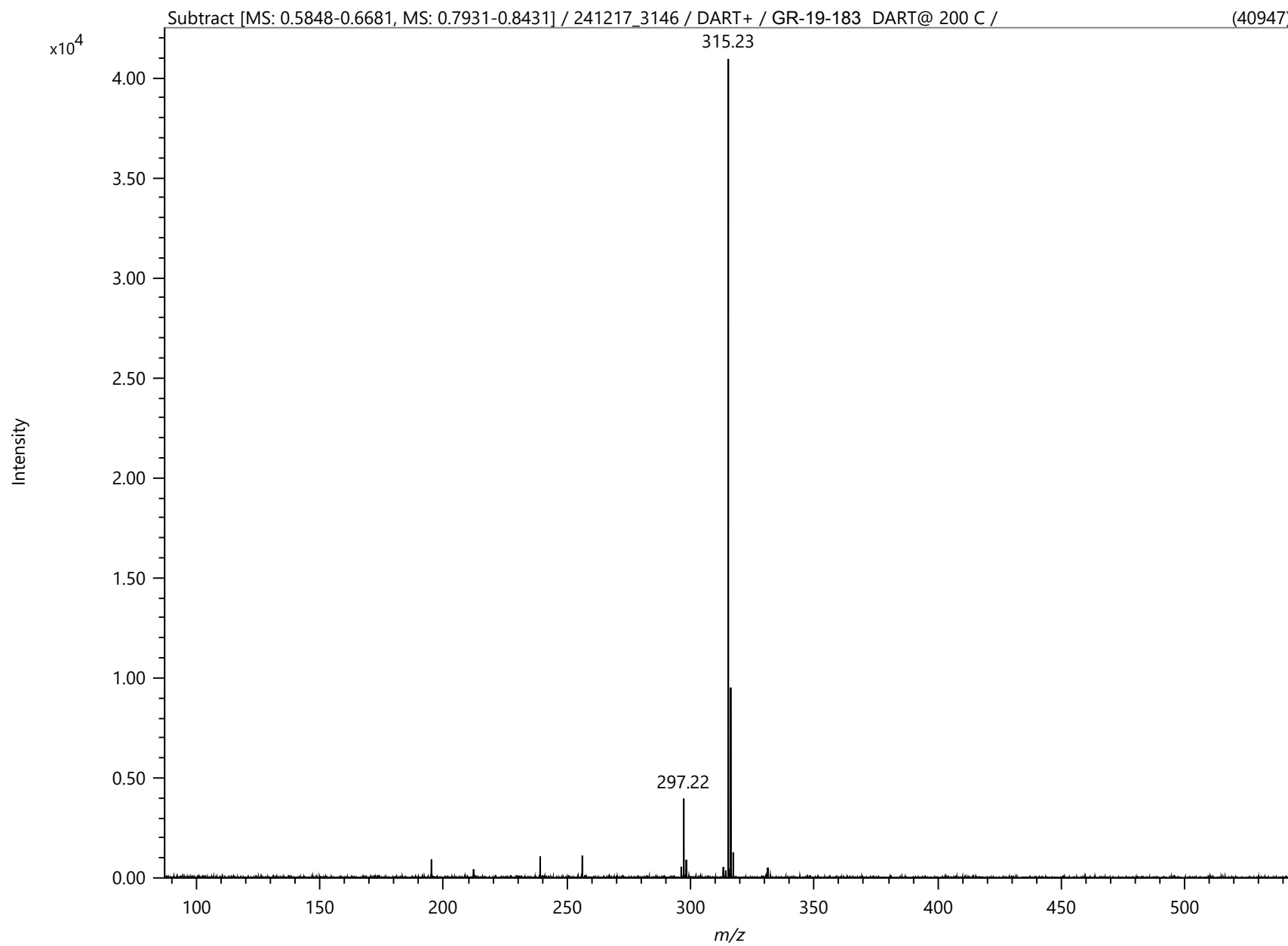


Viorica Rusu, QC/QA Manager

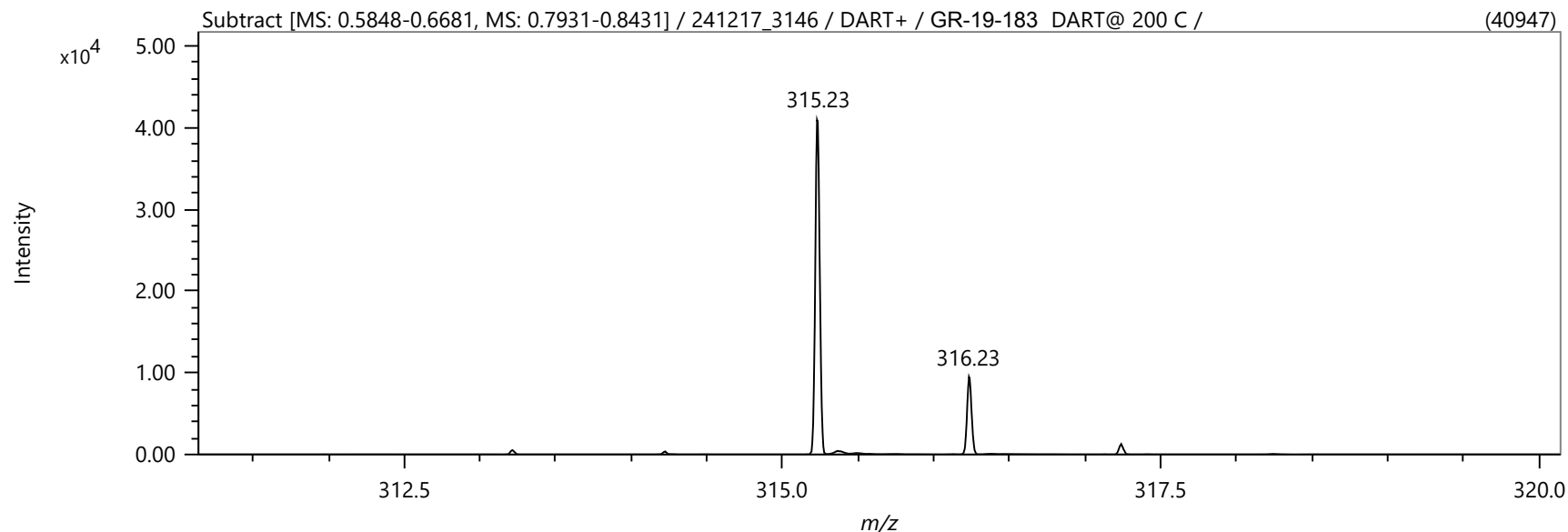
GR-19-183.1.1.1r
1H NMR using B600

20a-Dihydrodydrogesterone
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-19-183





Spectrum



Elemental Composition

Parameters

Tolerance: ±5.00 mDa
 Electron: Even
 Charge: +1
 DBE: -1.5 - 100.0

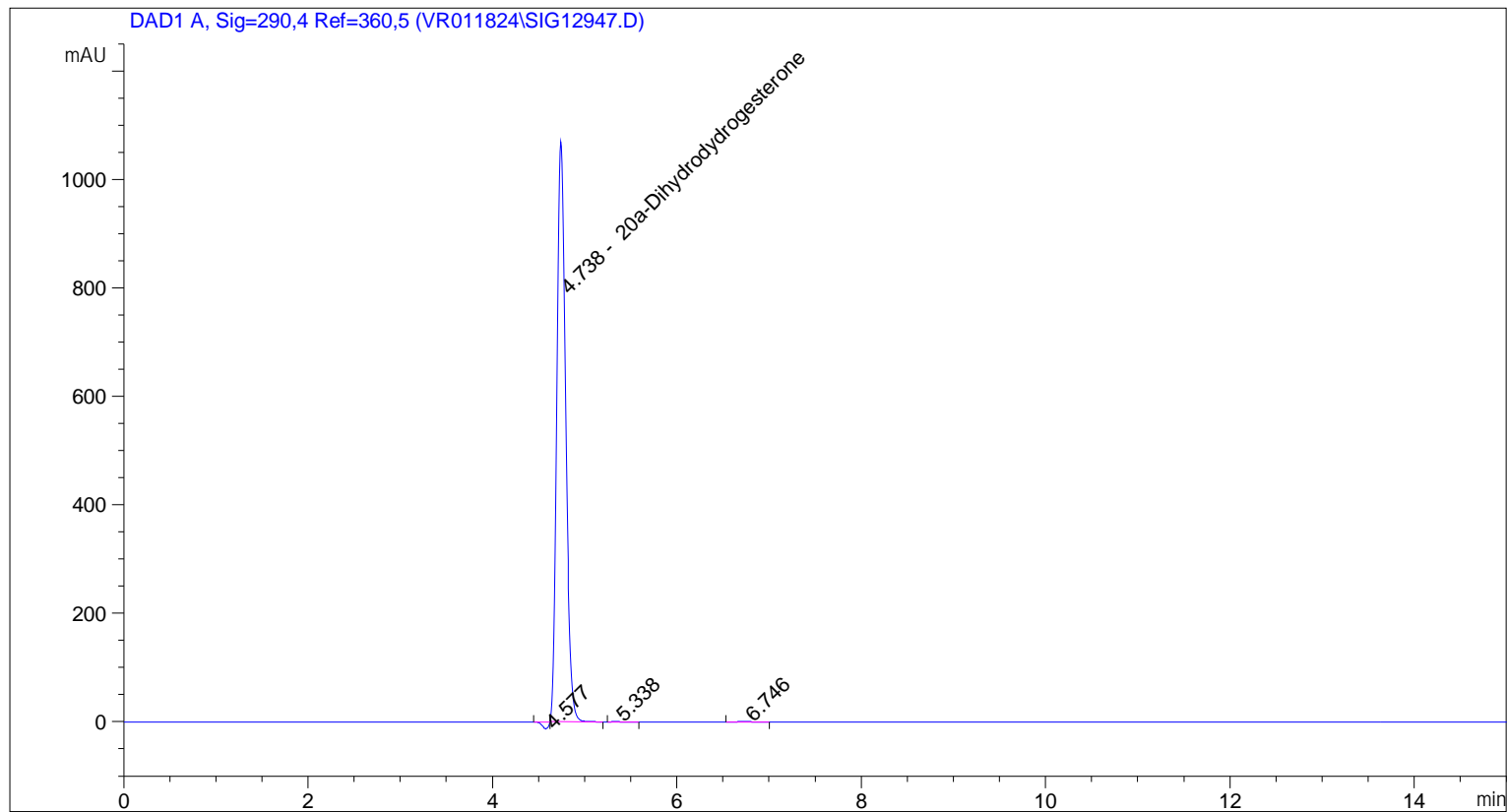
Elements Set 1:

Symbol	C	H	O	N
Min	0	0	0	0
Max	100	200	20	10

Results

Mass	Intensity	Formula	Calculated Mass	Mass Difference [mDa]	Mass Difference [ppm]	DBE
315.23123	40946.93	C21 H31 O2	315.23186	-0.63	-1.99	6.5
		C17 H27 N6	315.22917	2.06	6.52	7.5
		C16 H31 N2 O4	315.22783	3.39	10.77	2.5
		C10 H31 N6 O5	315.23504	-3.82	-12.11	-1.5

=====
Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 52
Injection Date : 1/14/2025 10:30:29 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR011425_183.M
Last changed : 1/14/2025 10:29:31 AM
Analysis Method : C:\CHEM32\1\METHODS\VR011425_183PM.M
Last changed : 1/14/2025 1:36:30 PM



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

Sorted By : Signal
Calib. Data Modified : 1/14/2025 1:35:01 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=290,4 Ref=360,5

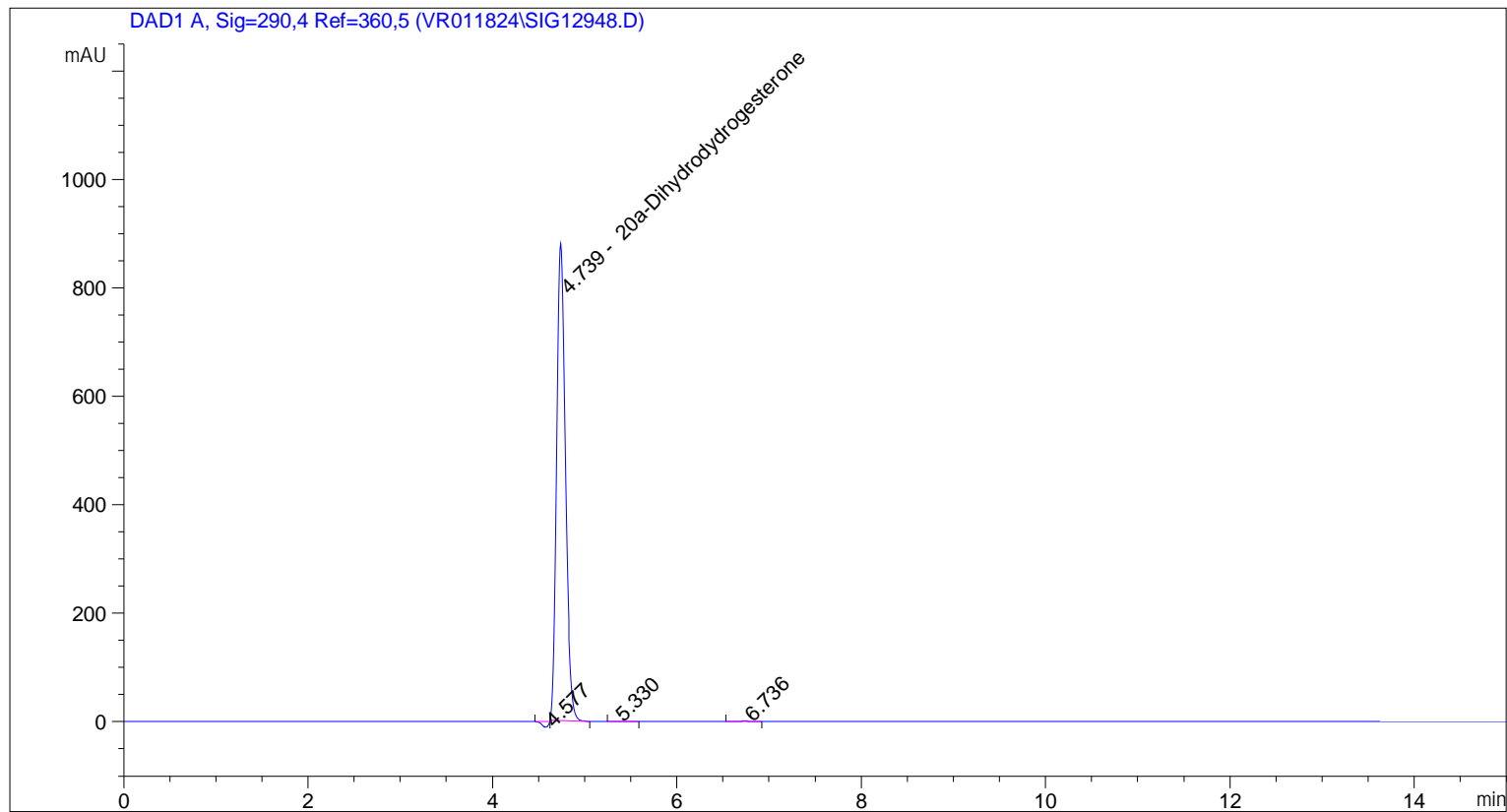
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.577	PP N	0.0792	58.63126	0.8195	?
2	4.738	BB	0.1032	7077.63623	98.9289	20a-Dihydrodydrogesterone
3	5.338	BB	0.0930	3.29247	0.0460	?
4	6.746	VV	0.1392	14.70911	0.2056	?

Totals : 7154.26906

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*** End of Report ***

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Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 53
Injection Date : 1/14/2025 10:48:16 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR011425_183.M
Last changed : 1/14/2025 10:47:13 AM
Analysis Method : C:\CHEM32\1\METHODS\VR011425_183PM.M
Last changed : 1/14/2025 1:36:30 PM



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Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 1/14/2025 1:35:01 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=290,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.577	PP N	0.0791	47.68877	0.8172	?
2	4.739	BB	0.1026	5772.82813	98.9246	20a-Dihydrodydrogesterone
3	5.330	BB	0.1011	3.40818	0.0584	?
4	6.736	VB	0.1395	11.65655	0.1997	?

Totals : 5835.58162

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*** End of Report ***