

<b>Name:</b>	<b>N-Desacetyl Lacosamide</b> (2R)-2-Amino-3-methoxy-N-(phenylmethyl)propanamide, Lacosamide Impurity
<b>Lot#:</b>	GR-7-107
<b>Test Date:</b>	11/03/2020 (re-test date: 11/03/2025)
<b>CAS No.:</b>	196601-69-1
<b>MF:</b>	C <sub>11</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
<b>MW:</b>	208.29
<b>Appearance:</b>	Pale yellow wax like solid
<b>Purity:</b>	96.3% by HPLC (average of two sample preparations)
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (+)</b>	Conforms (shows peak at m/z = 209.13 [M+H] <sup>+</sup> )
<b>Storage</b>	Store at -18°C in a dry place away from direct sunlight

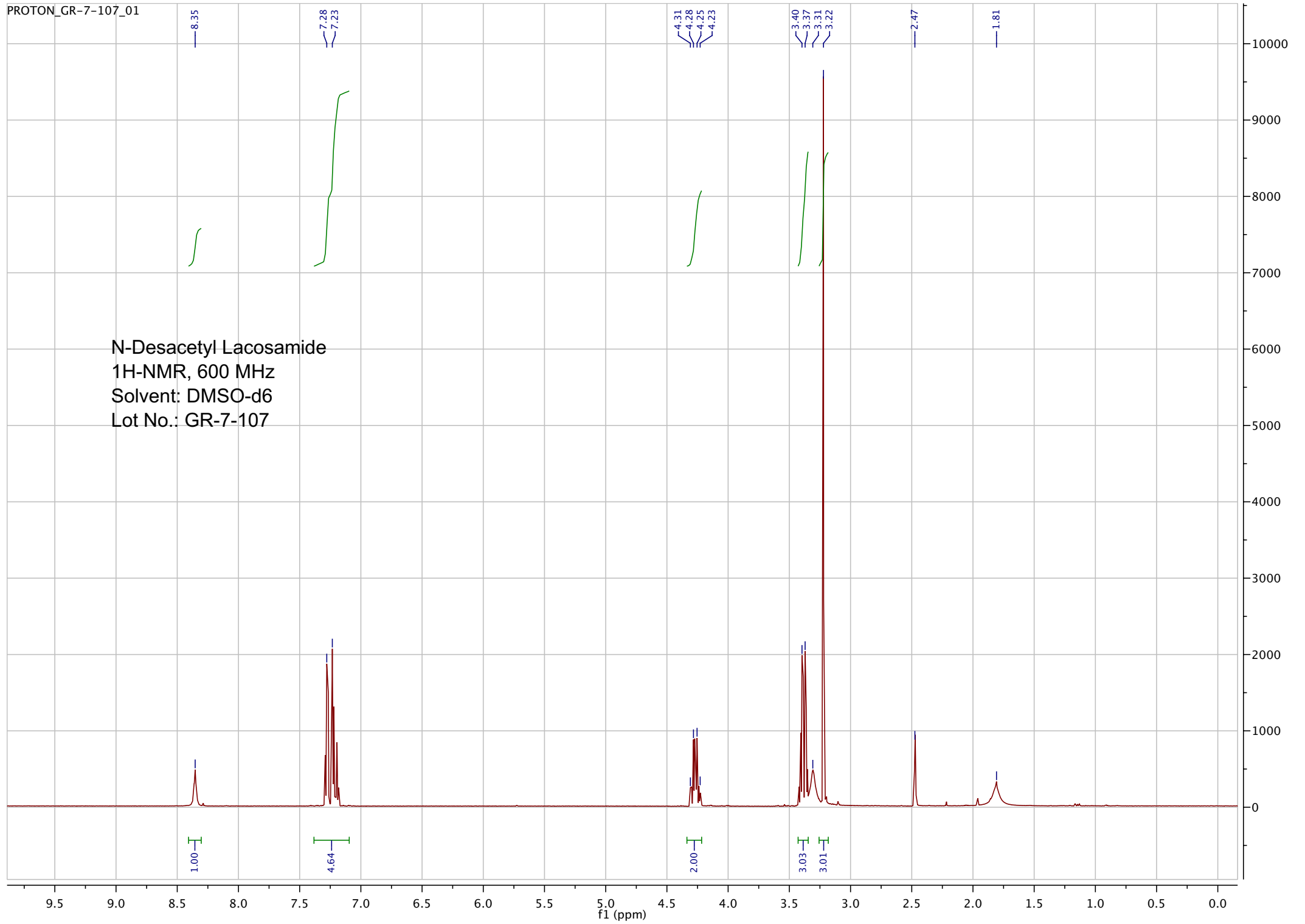
Approved by:

Date: 11/03/2020



Viorica Rusu, QC/QA Manager

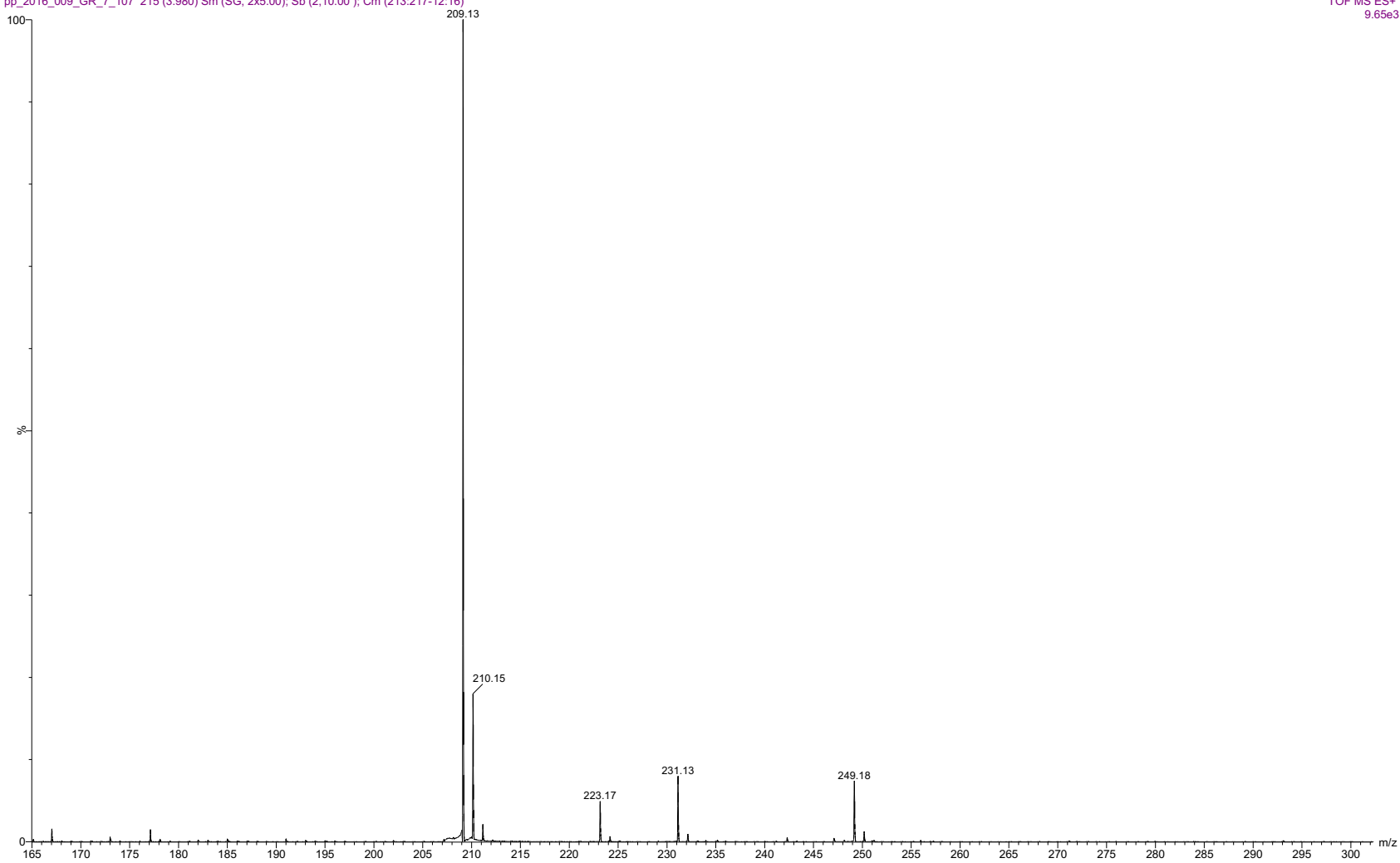
N-Desacetyl Lacosamide  
1H-NMR, 600 MHz  
Solvent: DMSO-d6  
Lot No.: GR-7-107



pp\_2016\_009\_GR\_7\_107 215 (3.980) Sm (SG, 2x5.00); Sb (2,10.00); Cm (213:217-12:16)

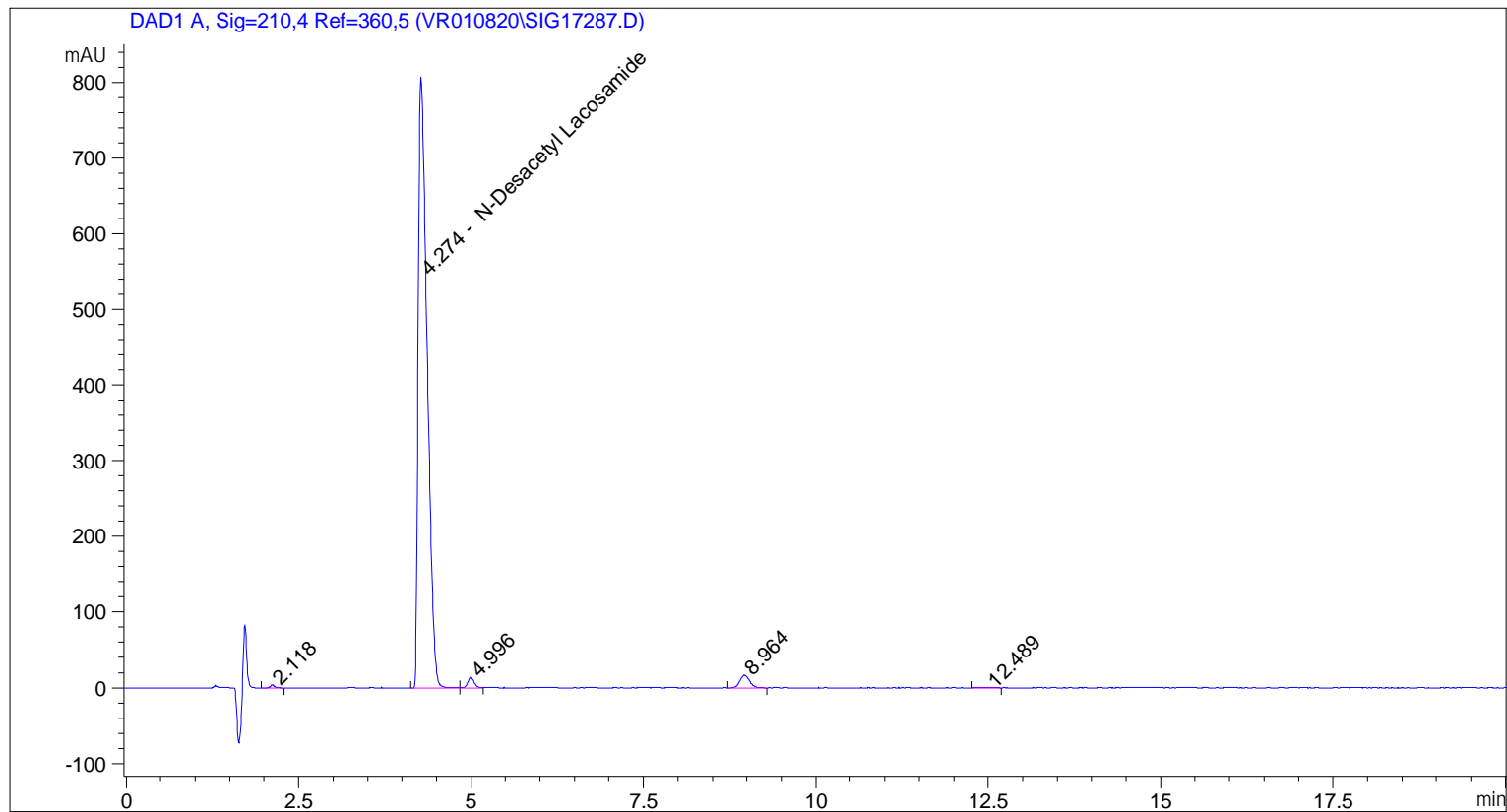
7.00000000

04-Feb-2016, 10:16:02  
TOF MS ES+  
9.65e3



Raw ESI-MS spectrum for sample GR-7-107. Shows monoisotopic [M+H]<sup>+</sup> mass.

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Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 5  
Injection Date : 11/3/2020 8:47:17 AM Inj Volume : 3.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR110320\_107.M  
Last changed : 11/3/2020 8:45:37 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR110320\_107PM.M  
Last changed : 11/3/2020 10:20:19 AM by vrusu



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Area Percent Report  
=====

Sorted By : Signal  
Calib. Data Modified : 11/3/2020 10:19:50 AM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=210,4 Ref=360,5

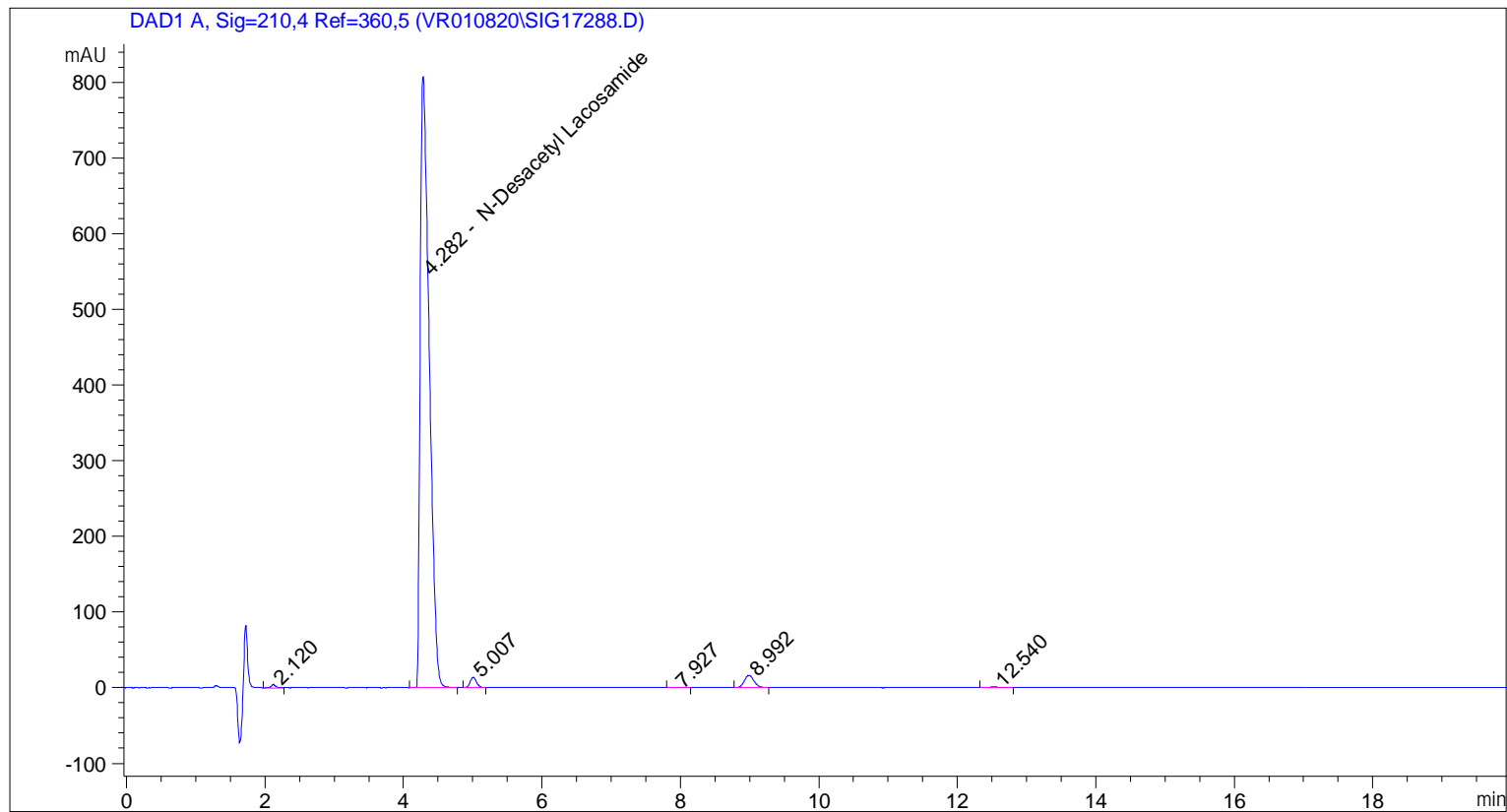
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.118	BV	0.0685	20.34250	0.2687	?
2	4.274	BV	0.1412	7284.29736	96.2346	N-Desacetyl Lacosamide
3	4.996	VV	0.0987	87.98586	1.1624	?
4	8.964	VV	0.1513	163.35555	2.1581	?
5	12.489	BV	0.1695	13.32883	0.1761	?

Totals : 7569.31011

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\*\*\* End of Report \*\*\*

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Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 6  
Injection Date : 11/3/2020 9:09:28 AM Inj Volume : 3.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR110320\_107.M  
Last changed : 11/3/2020 9:07:58 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR110320\_107PM.M  
Last changed : 11/3/2020 10:20:19 AM by vrusu



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Area Percent Report  
=====

Sorted By : Signal  
Calib. Data Modified : 11/3/2020 10:19:50 AM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=210,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.120	BV	0.0656	19.24725	0.2534	?
2	4.282	BB	0.1436	7313.67969	96.2825	N-Desacetyl Lacosamide
3	5.007	BV	0.0978	86.23042	1.1352	?
4	7.927	BB	0.1053	5.67637	0.0747	?
5	8.992	BV	0.1482	159.50053	2.0998	?
6	12.540	VB	0.1751	11.73253	0.1545	?

Totals : 7596.06679

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\*\*\* End of Report \*\*\*