

Name:	Clonidine-D4 Hydrochloride
Lot#:	GR-9-209
Test Date:	03/05/2021 (re-test date: 03/05/2026)
CAS No.:	67151-02-4
MF:	C ₉ H ₆ D ₄ Cl ₃ N ₃
MW:	270.58
Appearance:	White solid
Purity:	98.8% by HPLC (average of two sample preparations); 99% atom D
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peaks at m/z = 234.72, 236.72, 238.73 [M _{(free base)+H}] ⁺), shows the expected pattern for the dichloro-substituted compounds
Storage	Store at 0-5°C in a dry place away from direct sunlight

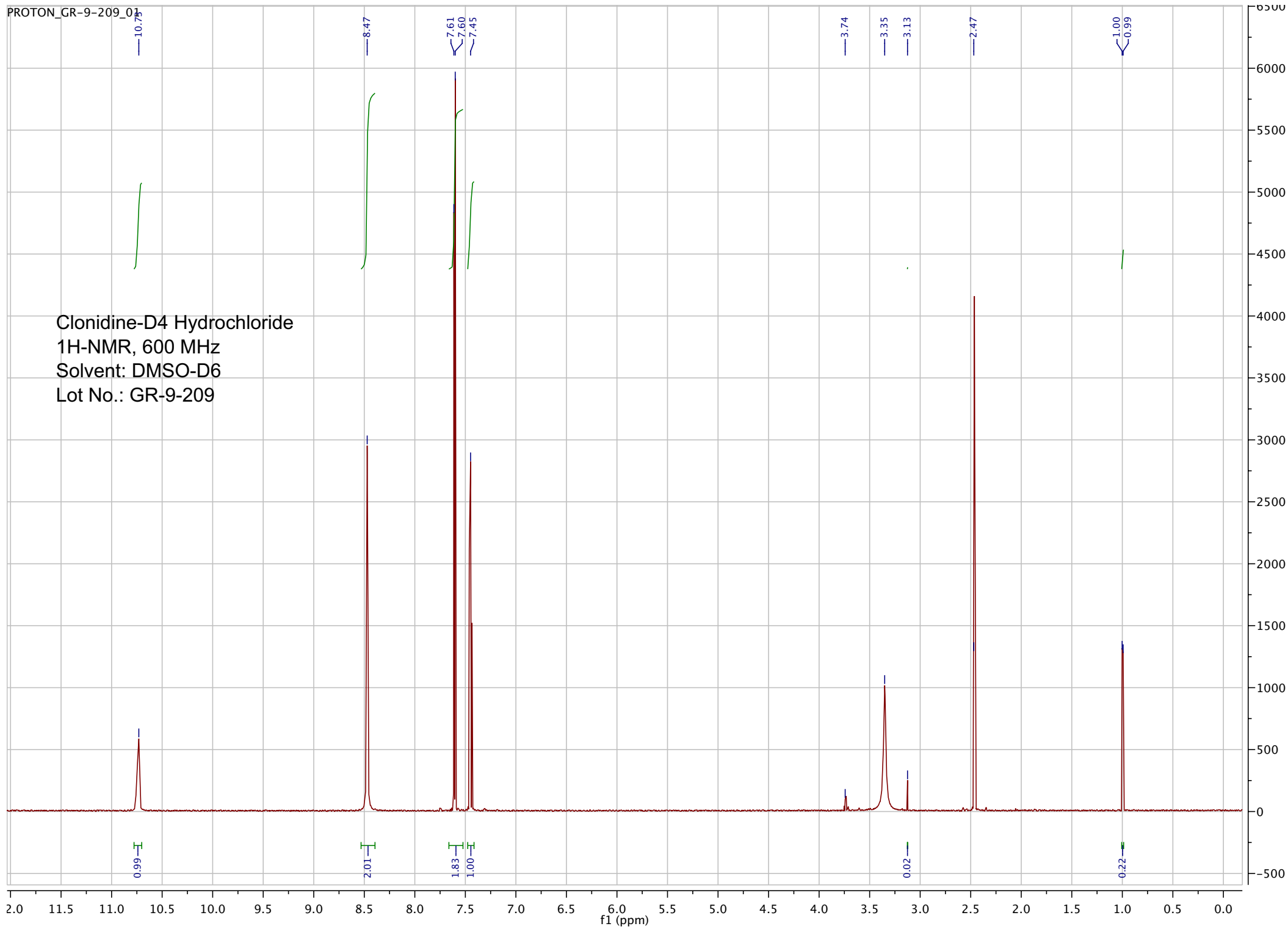
Approved by:

Date: 03/05/2021



Viorica Rusu, QC/QA Manager

Clonidine-D4 Hydrochloride
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-9-209

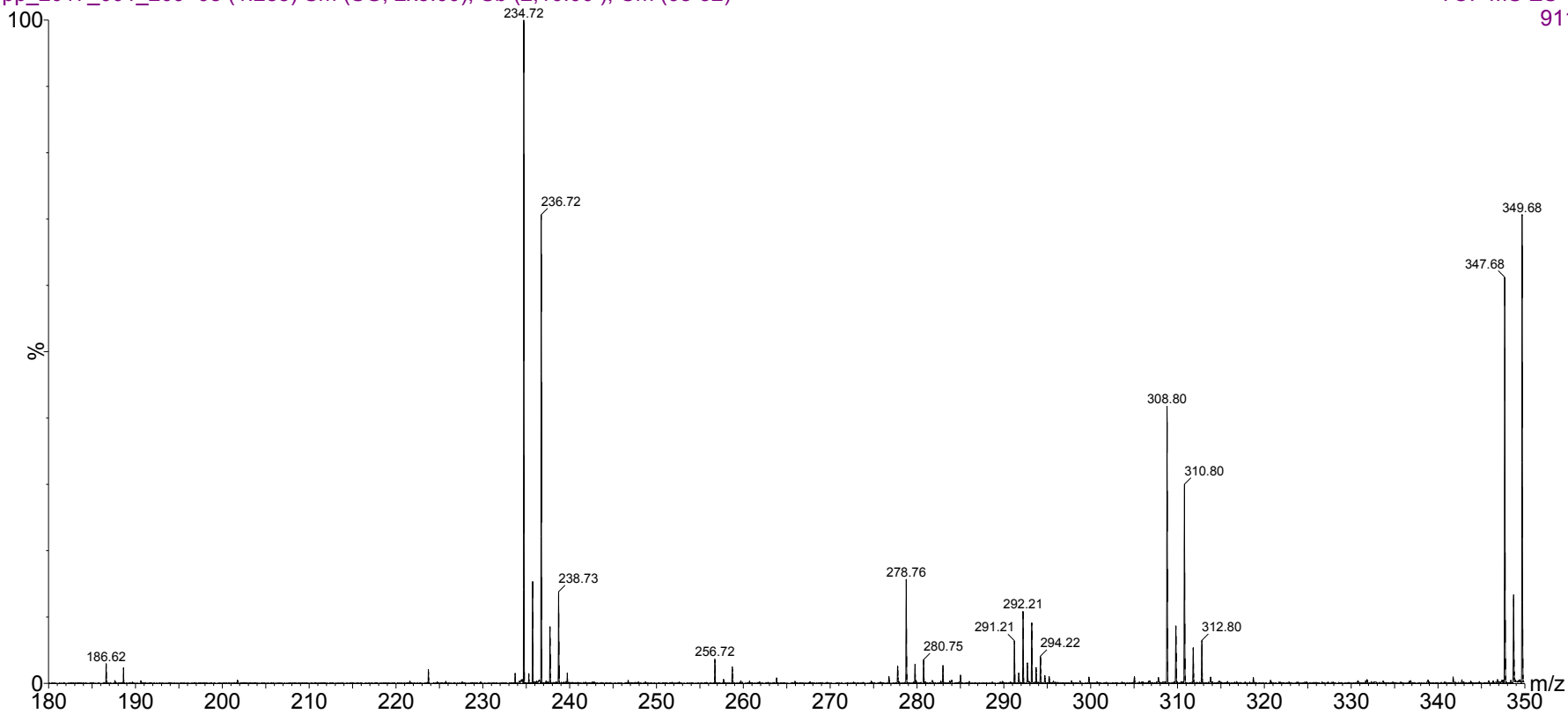


14:39:27, 06-Jan-2017

TOF MS ES+

911

pp_2017_001_209 68 (1.288) Sm (SG, 2x5.00); Sb (2,10.00); Cm (68-52)



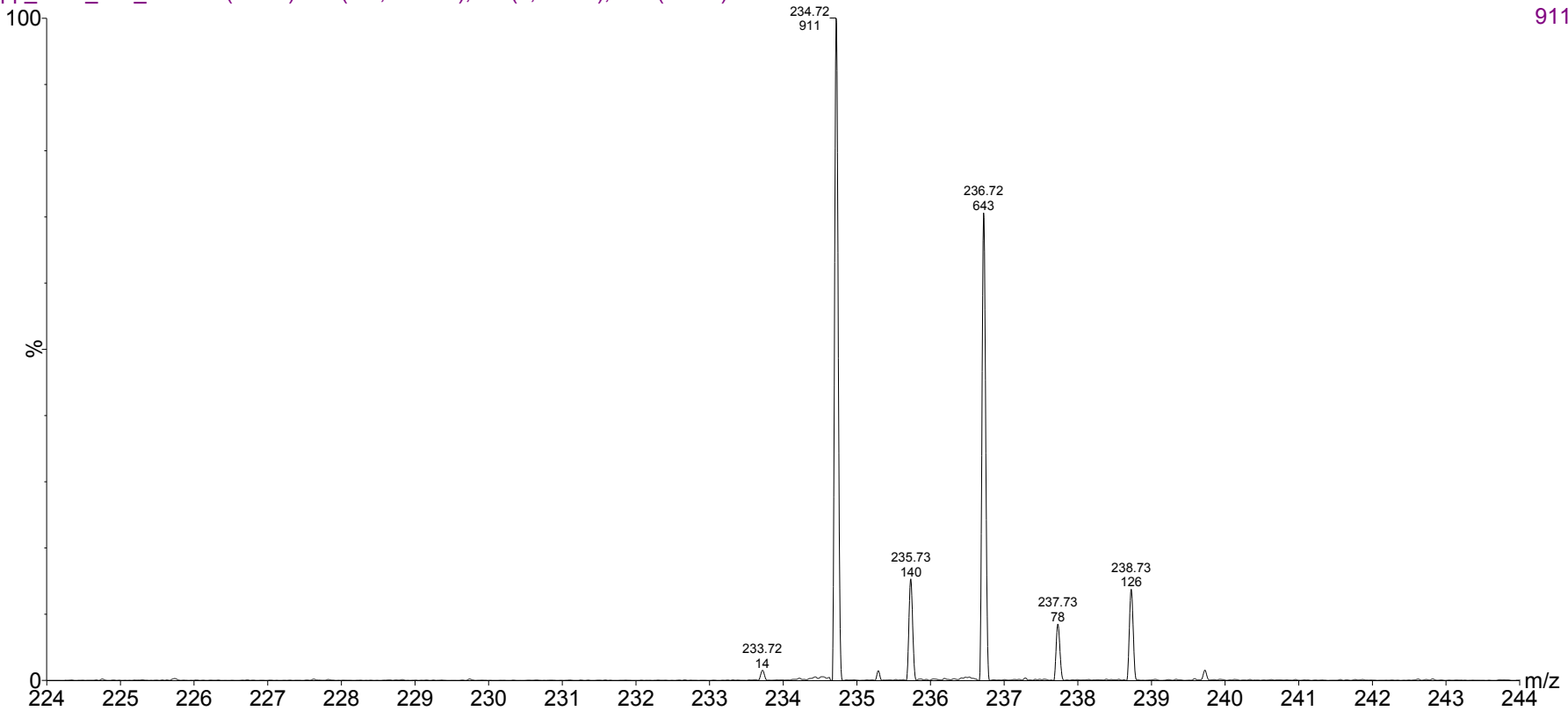
Raw ESI-MS spectrum for sample GR-9-209. Shows monoisotopic $[M+H]^+$ mass

14:39:27, 06-Jan-2017

TOF MS ES+

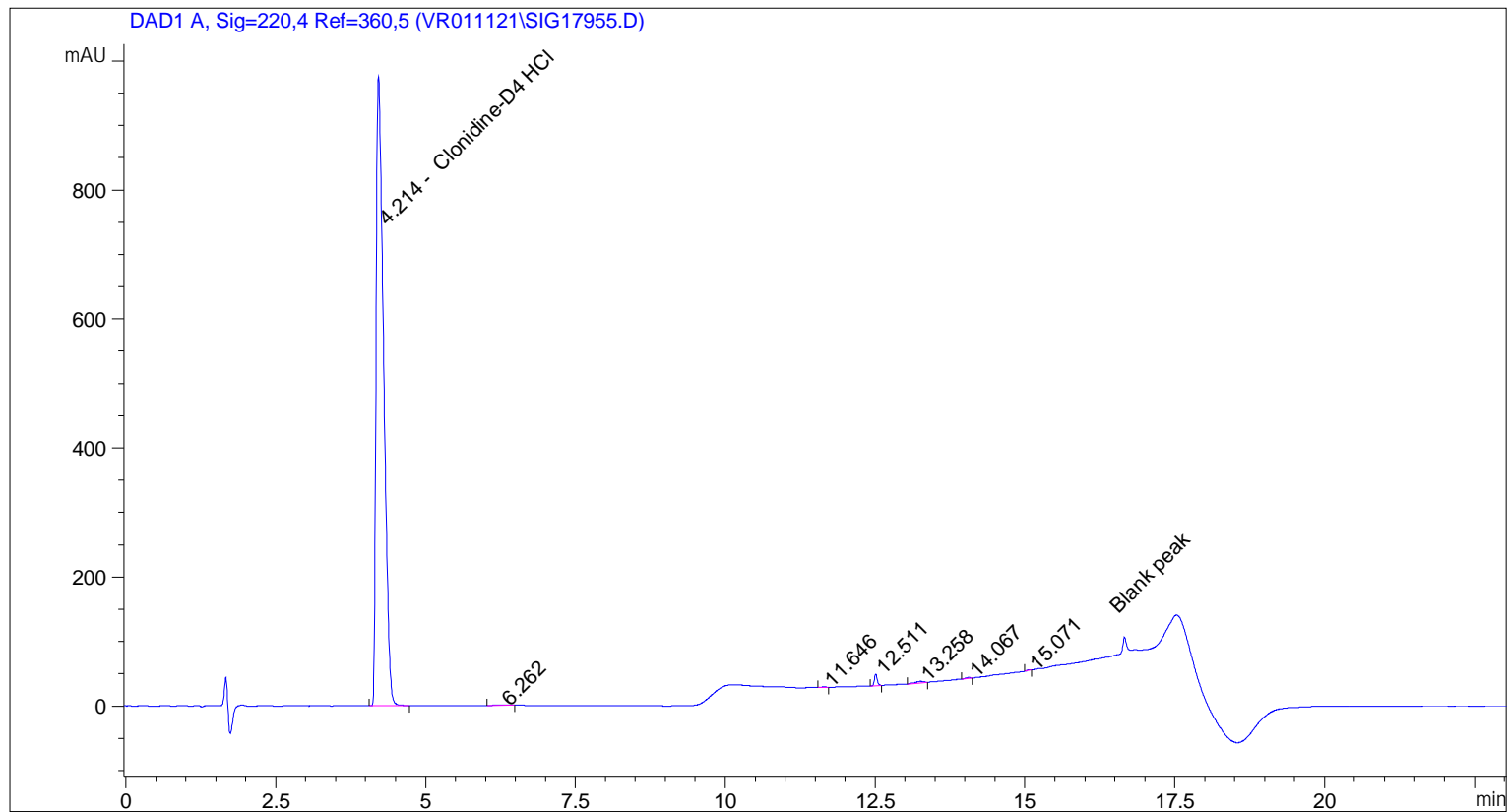
911

pp_2017_001_209 68 (1.288) Sm (SG, 2x5.00); Sb (2,10.00); Cm (68-52)



Expansion of above with intensity labels

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 22
Injection Date : 3/5/2021 9:12:49 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR030521_209.M
Last changed : 3/5/2021 9:11:58 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR030521_209PM.M
Last changed : 3/5/2021 10:00:52 AM by vrusu



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : Friday, March 05, 2021 10:00:35 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.214	BB	0.1366	8577.00781	98.7880	Clonidine-D4 HCl
2	6.262	BB	0.1682	7.39994	0.0852	?
3	11.646	BB	0.0561	5.47842	0.0631	?
4	12.511	BB	0.0503	60.52131	0.6971	?
5	13.258	BB	0.1385	21.01253	0.2420	?
6	14.067	BB	0.0831	6.57571	0.0757	?
7	15.071	BB	0.0569	4.24039	0.0488	?

Sample Name: GR-9-209

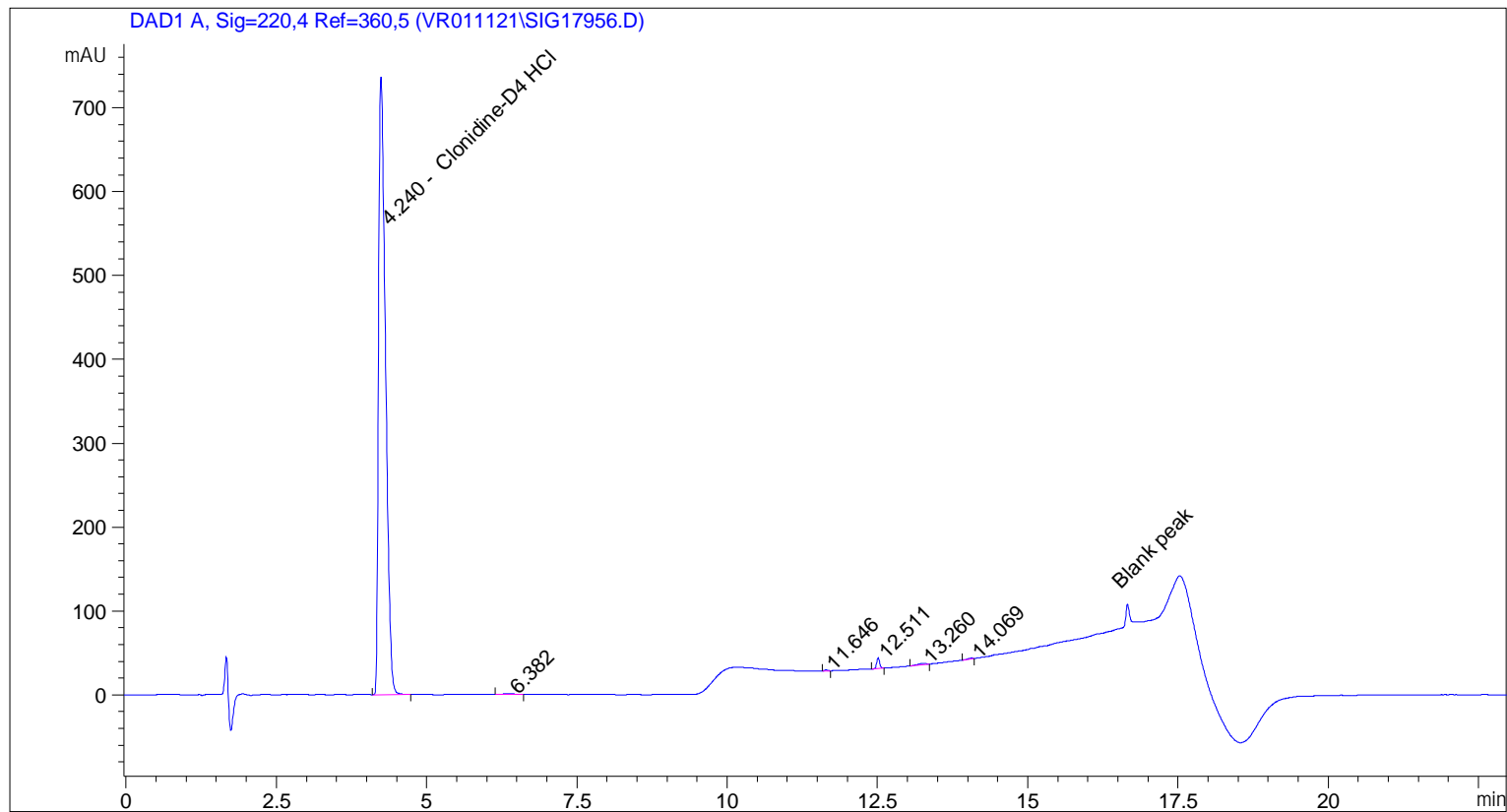
Totals : 8682.23611

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1
Injection Date  : 3/5/2021 9:38:53 AM
Location       : Vial 23
Inj Volume     : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR030521_209.M
Last changed   : 3/5/2021 9:38:00 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR030521_209PM.M
Last changed   : 3/5/2021 10:06:30 AM by vrusu
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 Area Percent Report
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Sorted By      : Signal
Calib. Data Modified : Friday, March 05, 2021 10:00:35 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.240	BB	0.1261	5938.50684	98.7858	Clonidine-D4 HCl
2	6.382	BB	0.1854	7.35769	0.1224	?
3	11.646	BB	0.0527	3.36529	0.0560	?
4	12.511	BB	0.0503	41.62751	0.6925	?
5	13.260	BB	0.1517	15.91020	0.2647	?
6	14.069	BB	0.0741	4.73377	0.0787	?

Totals : 6011.50129

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*** End of Report ***