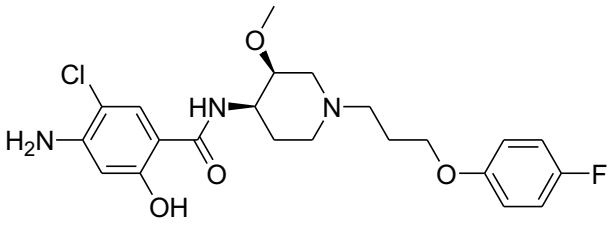
Certificate of Analysis

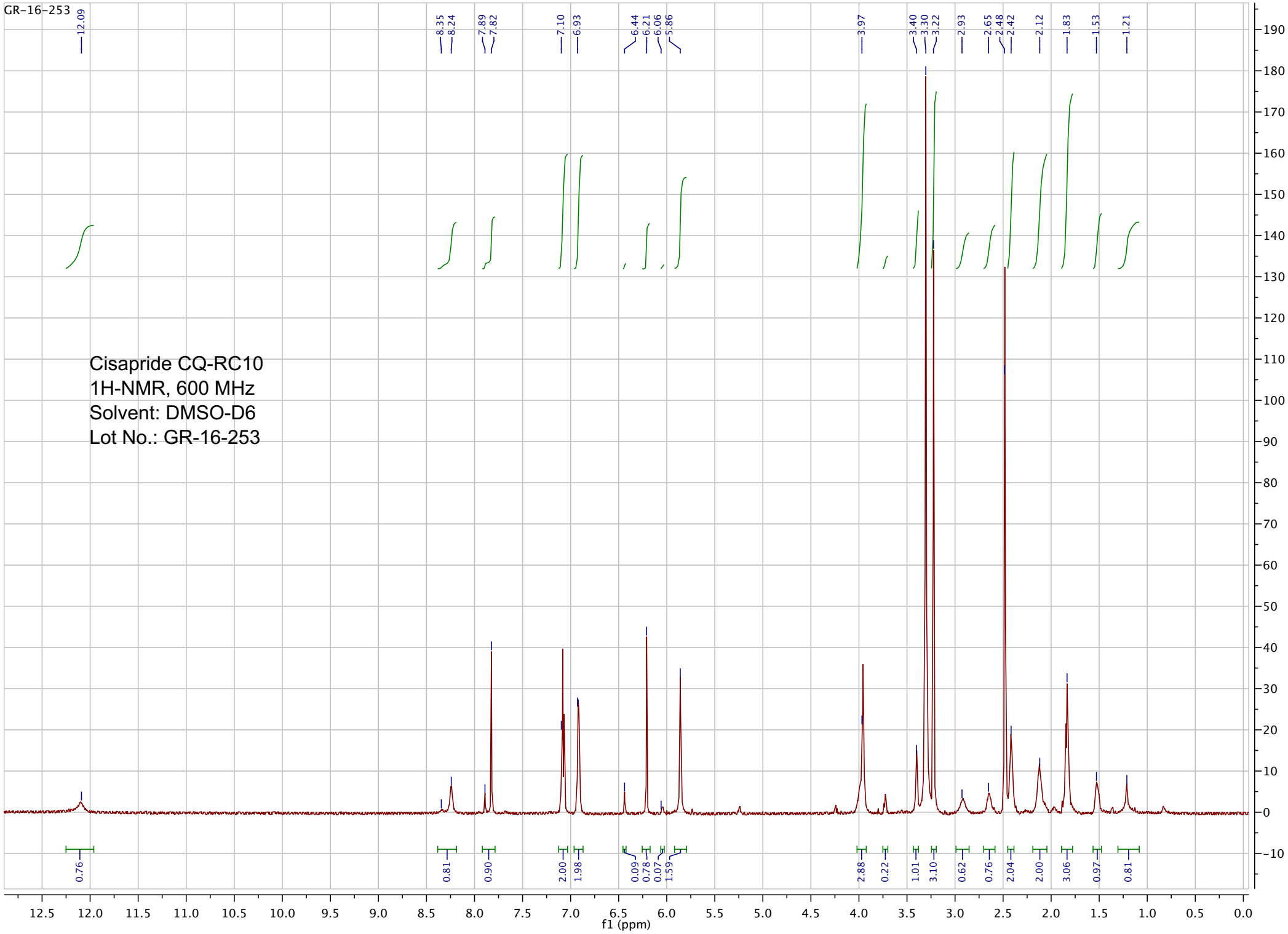


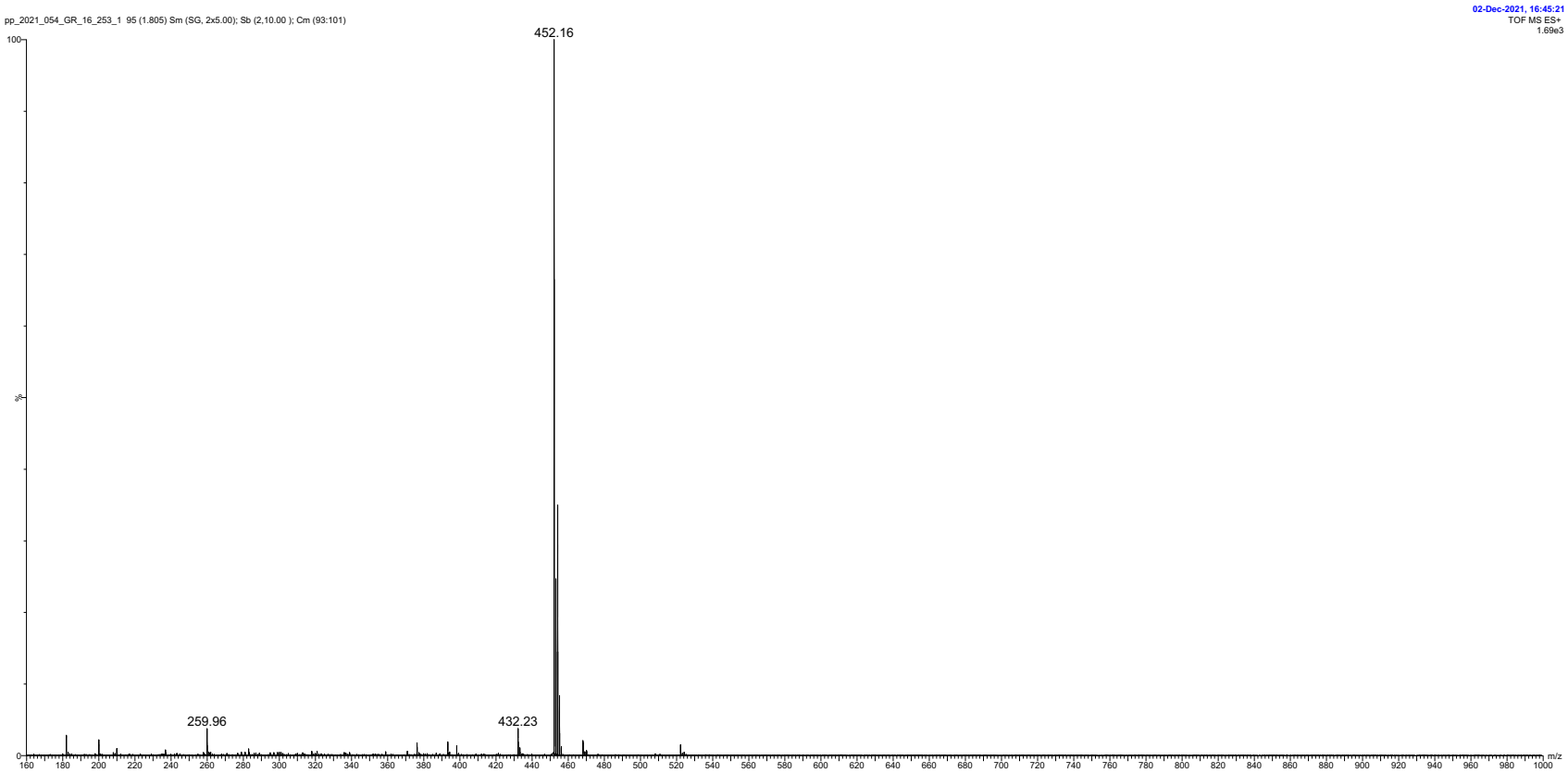
Name:	**Cis-4-amino-5-chloro-N-[1-[3-(4-flurophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-hydroxybenzamide** (Cisapride Impurity 8; CQ RC 10)
Lot#:	GR-16-253
Test Date:	12/02/2021 (re-test date: 12/02/2026)
CAS No.:	102671-04-5
MF:	$C_{22}H_{27}ClFN_3O_4$
MW:	451.92
Appearance:	Off-white solid
Purity:	95.9% by HPLC (average of two sample preparations)
^{1}H-NMR:	Conforms (shows a mixture of rotamers stabilized by an intramolecular Hydrogen Bond)
FTIR:	Attached
MS-ESI (+)	Conforms (shows peaks at m/z = 452.16 and 454.16 $[M+H]^+$; exhibits the expected pattern for mono- chlorinated compounds)
Storage	Long term store at 0 - 5^o C in a dry place away from direct sunlight

Approved by: Date: 12/08/2021

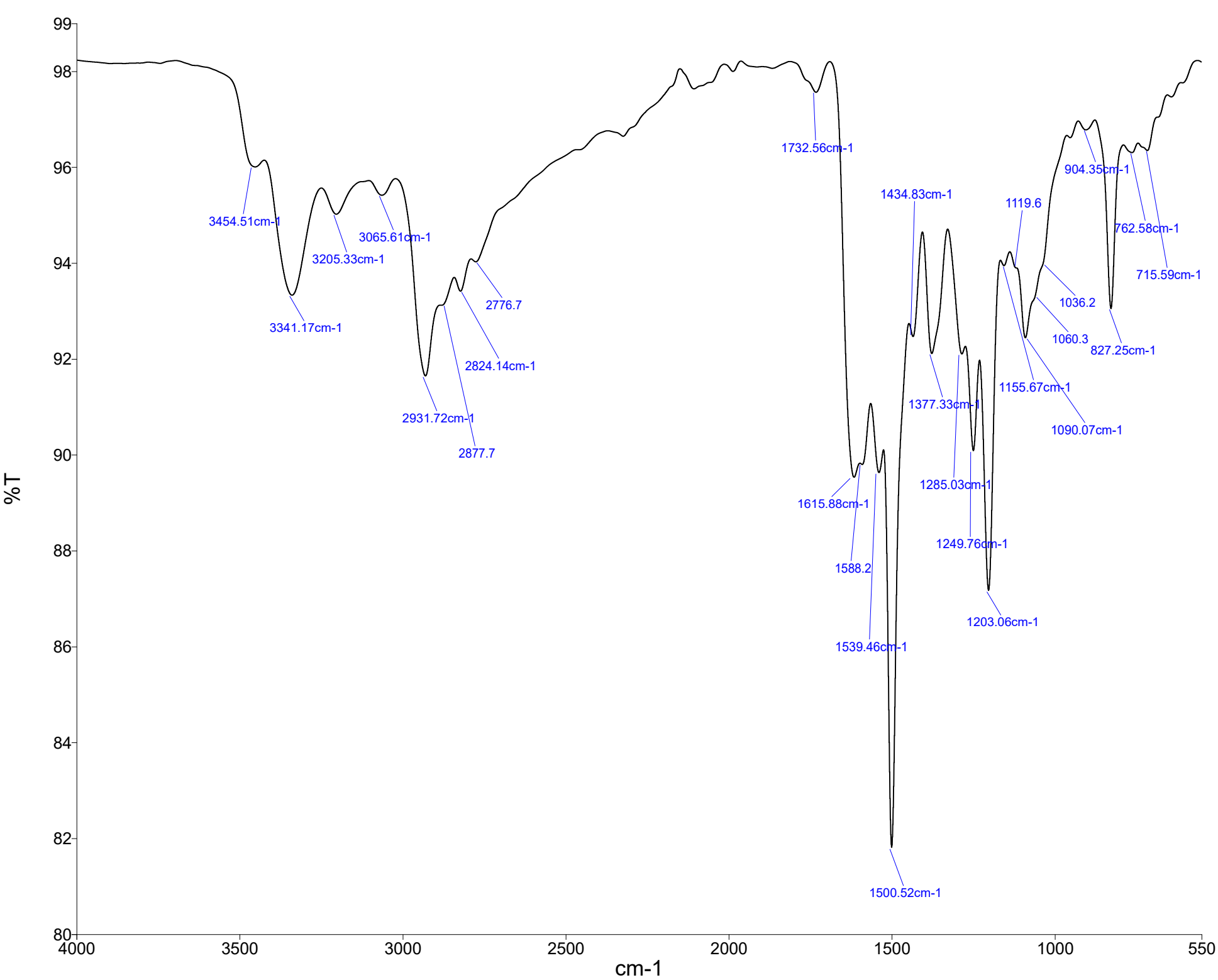
Viorica Rusu, QC/QA Manager

700, Collip Circle, The Research Park, London, ON, N6G 4X8
Ph: (647)4079078, e-mail: grusu@esschemco.com, www.esschemco.com


GR-16-253
12.09
8.35
8.24
7.89
7.82
7.10
6.93
6.44
6.21
6.06
5.86
3.97
3.40
3.30
3.22
2.93
2.65
2.48
2.42
2.12
1.83
1.53
1.21
Cisapride CQ-RC10
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-16-253
0.76
0.81
0.90
2.00
1.98
0.09
0.78
0.07
1.59
2.88
0.22
1.01
3.10
0.62
0.76
2.04
2.00
3.06
0.97
0.81
f1 (ppm)



ESI-MS spectrum for sample GR-16-253. Shows monoisotopic [M+H]+ mass.



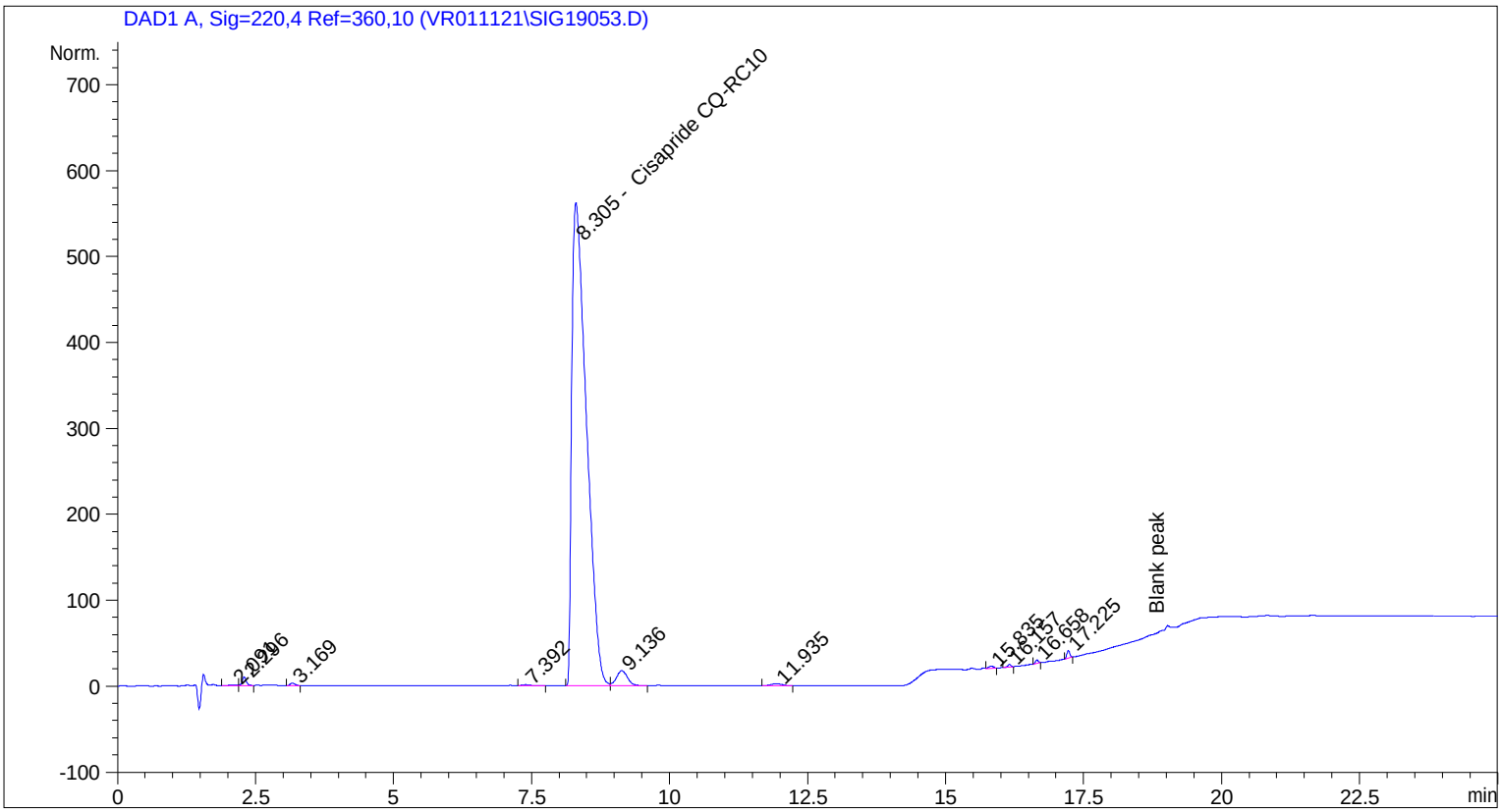
Name Description

GR-16-253 Sample 559 By Analyst Date Thursday, December 02 2021

Data File C:\CHEM32\1\DATA\VR011121\SIG19053.D
Sample Name: GR-16-253

==========

Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 40
Injection Date : 12/2/2021 9:43:03 AM
Inj Volume : 7.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR_120221_251.M
Last changed : 12/2/2021 9:42:15 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR120221_253PM.M
Last changed : 12/2/2021 12:41:13 PM by vrusu



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 12/2/2021 12:33:12 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,10

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.091	BV	0.1189	9.84055	0.0912	?
2	2.296	VB	0.0736	50.38551	0.4671	?
3	3.169	BB	0.0858	16.85619	0.1563	?
4	7.392	BB	0.1557	12.17146	0.1128	?
5	8.305	BV	0.2808	1.03432e4	95.8800	Cisapride CQ-RC10
6	9.136	VB	0.2146	245.04893	2.2716	?
7	11.935	BB	0.2107	34.84335	0.3230	?
8	15.835	VB	0.1000	16.78378	0.1556	?

Data File C:\CHEM32\1\DATA\VR011121\SIG19053.D
Sample Name: GR-16-253

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	16.157	BB	0.0577	11.89347	0.1103	?
10	16.658	BB	0.0586	14.10706	0.1308	?
11	17.225	BB	0.0551	32.52354	0.3015	?

Totals : 1.07876e4

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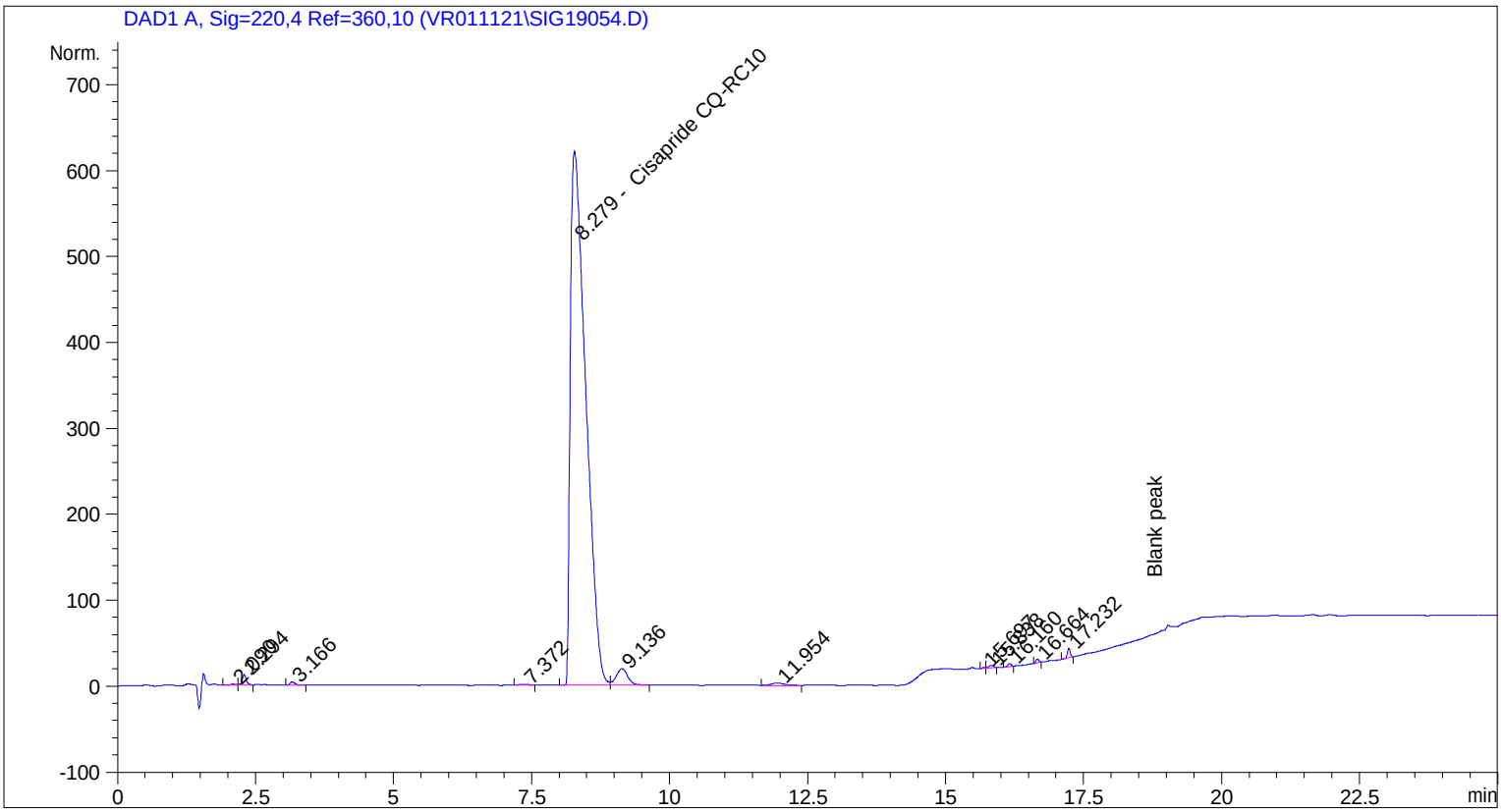
*** End of Report ***

Data File C:\CHEM32\1\DATA\VR011121\SIG19054.D
Sample Name: GR-16-253 spl-2

```
==========================================================================
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                    Location : Vial 41
Injection Date  : 12/2/2021 10:13:27 AM
                                                  Inj Volume : 7.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR_120221_251.M
Last changed    : 12/2/2021 10:12:35 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR120221_253PM.M
Last changed    : 12/2/2021 12:41:13 PM by vrusu
```




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

Sorted By             :      Signal
Calib. Data Modified  :      12/2/2021 12:33:12 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=220,4 Ref=360,10
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.090	BV	0.1052	10.59230	0.0844	?
2	2.294	VV	0.0759	63.30005	0.5046	?
3	3.166	BB	0.0889	21.96999	0.1752	?
4	7.372	BB	0.1437	10.78281	0.0860	?
5	8.279	BV	0.2938	1.20251e4	95.8672	Cisapride CQ-RC10
6	9.136	VB	0.2212	274.84680	2.1912	?
7	11.954	BB	0.2264	43.84794	0.3496	?
8	15.697	BV	0.0537	5.31036	0.0423	?

Data File C:\CHEM32\1\DATA\VR011121\SIG19054.D
Sample Name: GR-16-253 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	15.838	VB	0.0974	18.88395	0.1505	?
10	16.160	BB	0.0582	13.99014	0.1115	?
11	16.664	BB	0.0586	16.36751	0.1305	?
12	17.232	BB	0.0556	38.49966	0.3069	?

Totals : 1.25435e4

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*** End of Report ***