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[redacted]

Certificate of Analysis [redacted]

ICS-331

Product name : [redacted]

Chemical name : [redacted]

Batch number : **VRS 01048**

Test results:

Method	Analysis of	Unit	Result *1
Col/86.2, [redacted] ***ation***	[redacted]		
J20010381	[redacted]	% m/m	66.0 (± 1.0)
J20010381	[redacted]	% m/m	2.7 (± 0.3)
Amp/88.9	[redacted]	% m/m	2.8 (± 0.3)
J20010381	Unidentified impurities	% m/m	0.5 (± 0.2)

*1 bracketed values are estimated 95% confidence intervals

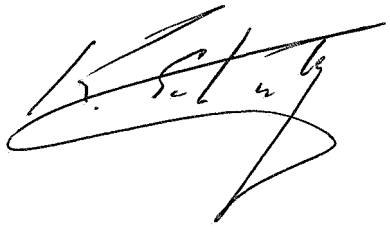
File code : **TNA-2001004**

Analytical documentation : 20010381

Authorized by

Name : [redacted]
Function : [redacted]
Date : [redacted]

Signature :



[redacted] 1.

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[redacted]

Certificate of Analysis

[redacted]s

[redacted]

structure	% m/m
[redacted])	19.4
[redacted])	7.8
[redacted]	1.7

[redacted]

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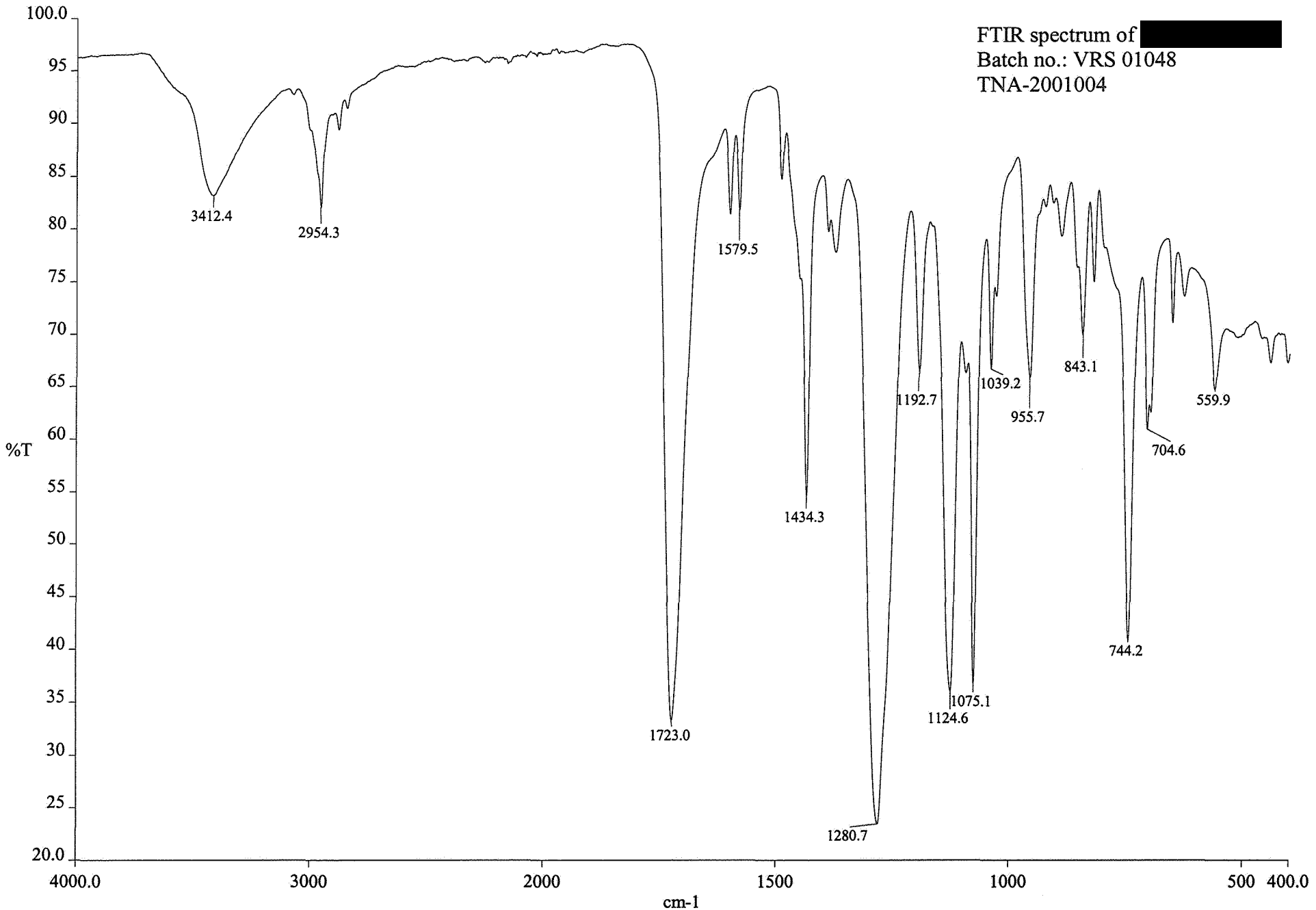
[redacted]

Spectrum	: IR
Spectrometer	: Perkin Elmer Spectrum 2000
Product name	: [redacted]
Chemical name	: [redacted])
Batch no.	: VRS 01048
origin	: [redacted]
purity	:
Temperature	: ambient
Sample preparation	: Golden Gate Diamond ATR
Concentration	: as such
Reference	: air
Cells	:
Date of recording	: 23-04-2001
Analytical documentation	: 2001381a
Laboratory	: ARD Molecular Spectroscopy
Head of laboratory	: [redacted]
Signature	: [redacted]
File code	: TNA-2001004

[redacted]4

72002



r:\rgd\rgdmspec\ftir\einec\2001381a.sp - [redacted]

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Annex 3
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[redacted]

Spectrum	: UV/VIS
Spectrometer	: Perkin Elmer Lambda 14P
Product name	: [redacted]
Chemical name	: [redacted]
Batch no.	: VRS 01048
origin	: [redacted]
purity	:
Temperature	: ambient
Sample preparation	: Dissolved in ethanol
Concentration	: 17.5 mg/l
Reference	: ethanol
Cells	: 10 mm QS
Date of recording	: 08-05-2001
Analytical documentation	: 201381A
Laboratory	: ARD Molecular Spectroscopy
Head of laboratory	: [redacted]
Signature	:
File code	: TNA-2001004

[redacted]14

72002

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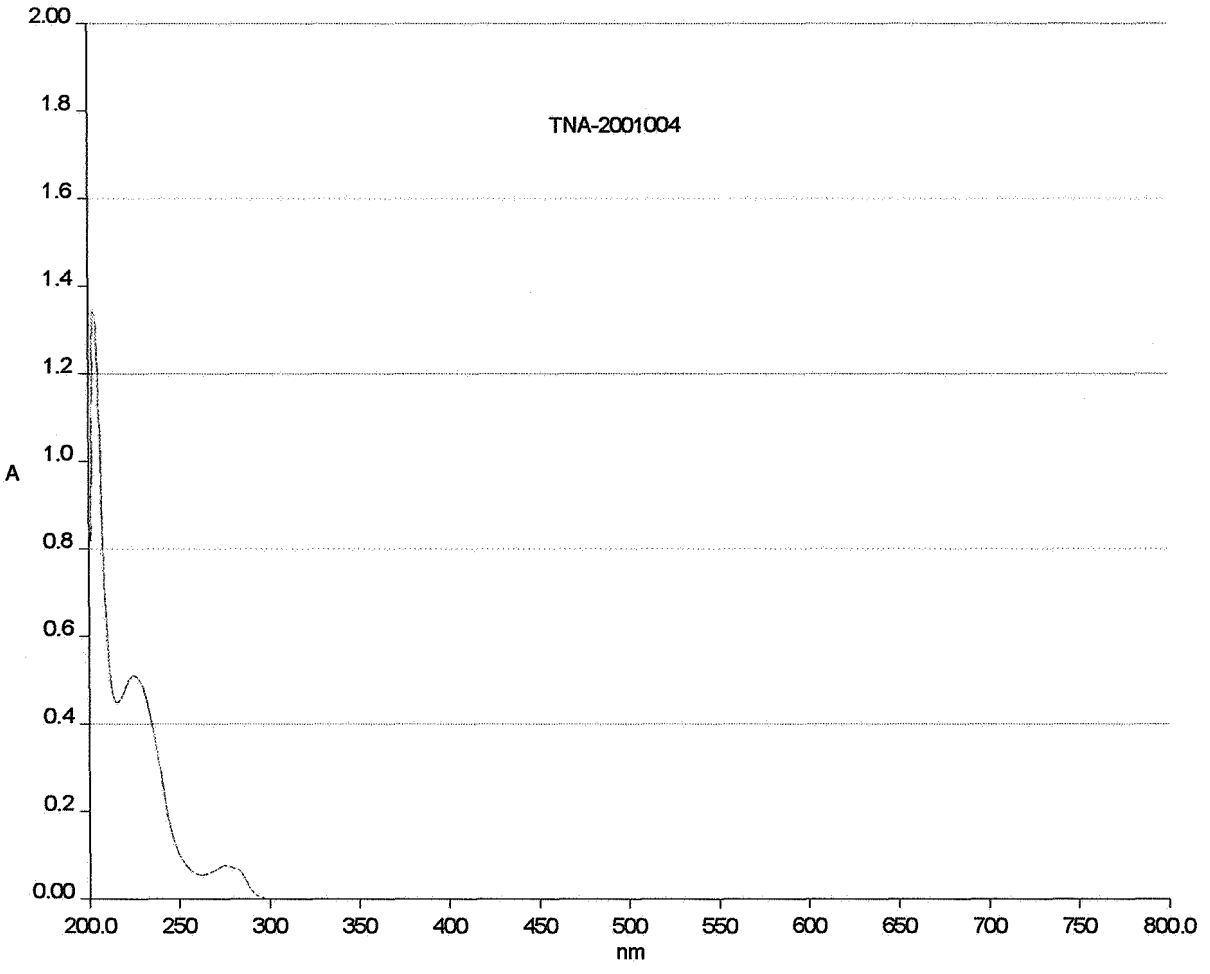
Date: 5/8/101 Time: 10:24:57 AM



Description: 17.5 mg/l in ethanol Tx R-938 (VRS 01048)

Spectrum Name: C:\UVWINLAB\SPECTRA\201381A.SP

Scan Speed: 120.00 nm/min

Date Created: 5/8/01 10:04:10 AM

Slit Width: 2.0000 nm

Instrument Model: Lambda 14

Smooth Bandwidth: 0.00 nm

Data Interval: 1.0000 nm

Annex 4
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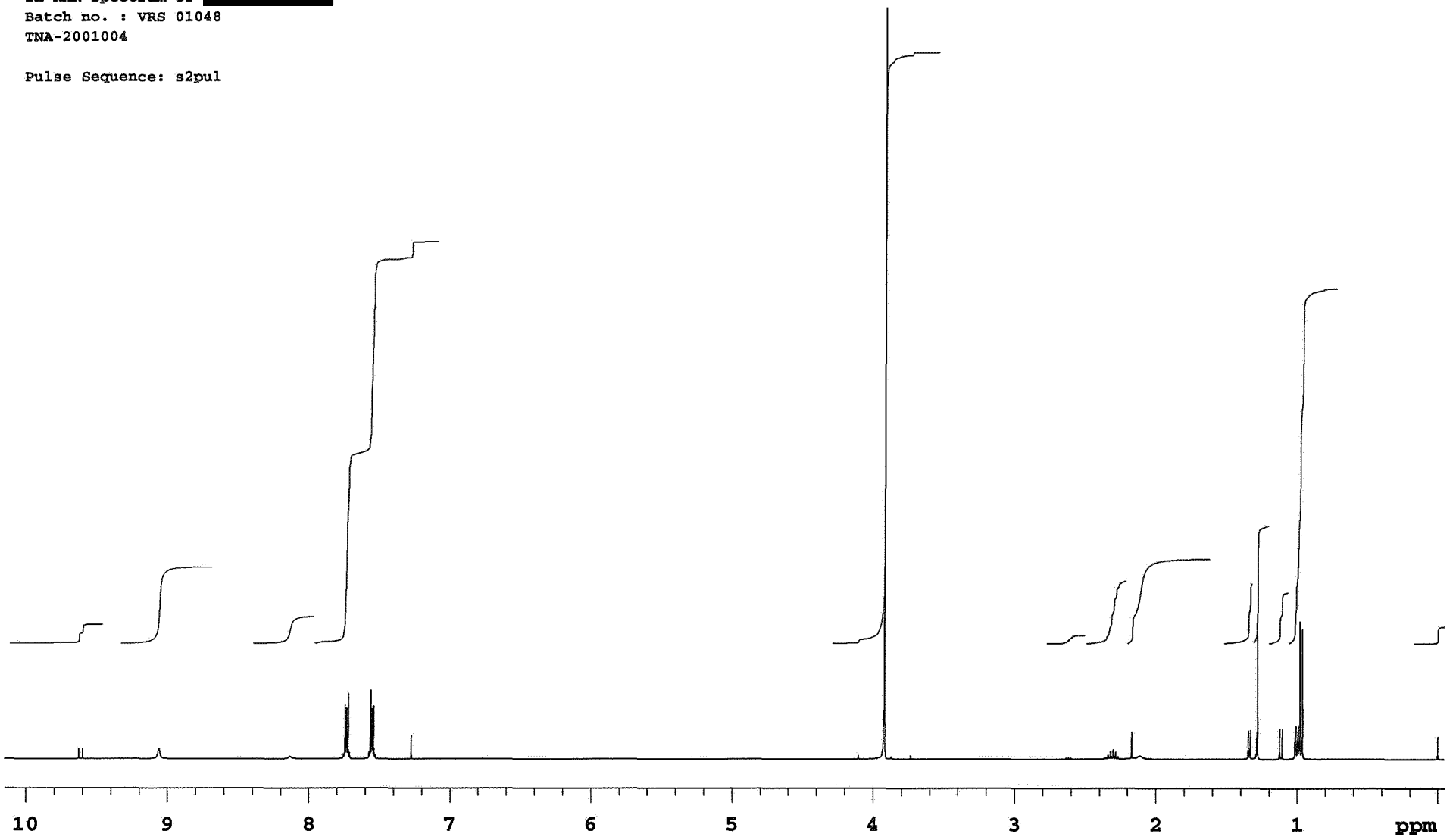
[redacted]

Spectrum	: 400 MHz ^{1}H-NMR
Spectrometer	: Varian Unity 400
Product name	: [redacted]
Chemical name	: [redacted])
Batch no.	: VRS 01048
origin	: [redacted]
purity	:
Temperature	: ambient
Sample preparation	: Dissolved in $CDCL_3$
Concentration	: approx. 5 %
Reference	: TMS
Cells	:
Date of recording	: 23-04-2001
Analytical documentation	: h20010381a
Laboratory	: ARD Molecular Spectroscopy
Head of laboratory	: [redacted]
Signature	:
File code	: TNA-2001004

[redacted]

1H-NMR spectrum of [redacted]
Batch no. : VRS 01048
TNA-2001004

Pulse Sequence: s2pul



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Спектр 3/4

[redacted]

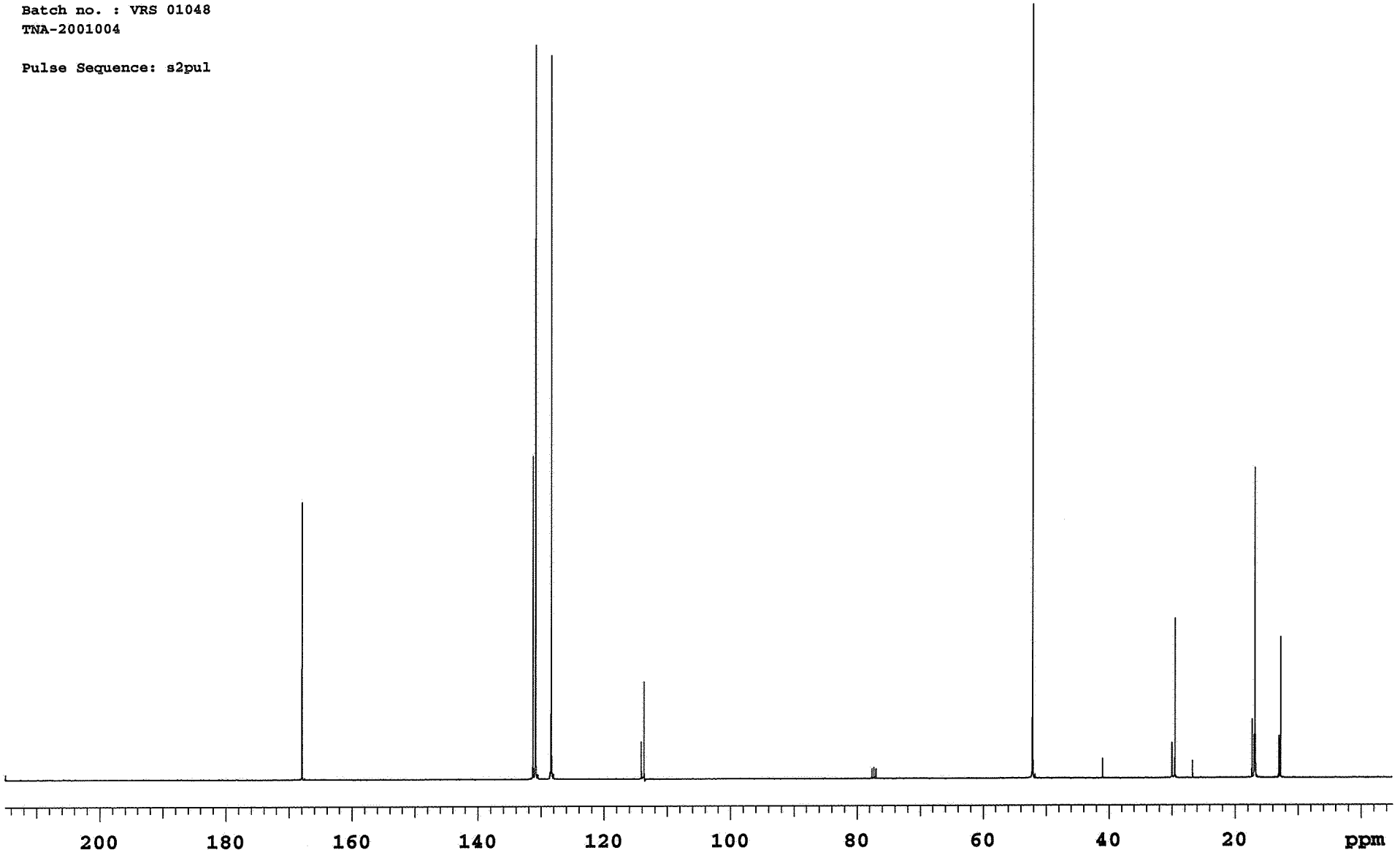
Spectrum	: 100 MHz ^{13}C-NMR
Spectrometer	: Varian Unity 400
Product name	: [redacted]
Chemical name	: [redacted])
Batch no.	: VRS 01048
origin	: [redacted]
purity	:
Temperature	: ambient
Sample preparation	: Dissolved in $CDCL_3$
Concentration	: approx. 40 %
Reference	: TMS (external)
Cells	:
Date of recording	: 23-04-2001
Analytical documentation	: c20010381a
Laboratory	: ARD Molecular Spectroscopy
Head of laboratory	: [redacted]
Signature	:
File code	: TNA-2001004

[redacted]

72002

13C-NMR spectrum of [redacted]
Batch no. : VRS 01048
TNA-2001004

Pulse Sequence: s2pul



Annexes
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[redacted]

Certificate of Analysis [redacted]

ICS-331

Product name : [redacted]

Chemical name : [redacted])

Batch number : **1510-14**

Test results:

Method	Analysis of	Unit	Result *[1]
Jo/72.11, [redacted]	[redacted] *See page 2 for a specification*		
J20010792	[redacted]		
J20010792	[redacted]	% m/m	2.0 (± 0.3)
Amp/88.9	[redacted]	% m/m	2.6 (± 0.3)
J20010792	Unidentified impurities	% m/m	0.5 (± 0.2)

*[1] bracketed values are estimated 95% confidence intervals

File code : **TNA-2001007**

Analytical documentation : 20010792

Authorized by

Name : [redacted]
Function : Section Head, Analytical Research Department
Date : October 25, 2001

Signature :

[redacted]

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[redacted]

Certificate of Analysis [redacted]

[redacted]

structure	% m/m
[redacted] (Type IV) IU [redacted]	18.6
[redacted] (Type III) [redacted]	7.9
[redacted]	2.1

[redacted] batches used for testing

- Active components < 10% listed as "impurities"
- Estimated 95% confidence intervals calculated "pro rata"

:

=

"Components"	(VS01048 + 1510-14) /2	result
[redacted]	(66.0 + 67.5) / 2	66.5 % (+ 1.0)
[redacted] xide		
"impurities"		
1 [redacted]		
[redacted]		
[redacted] -	(2.7 +2.0)/2	2.35 (+ 0.3)
[redacted]		
Unidentified impurities	(0.5 + 0.5)/2	0.5 (+0.2)

" Purity":
(66.5 + 19.0) = 85.5%