

Supplementary Material

Including chromatograms of essential oils, IR and ^1H NMR spectroscopic data of the synthesized carbamates

Separation of OH-containing compounds from the essential oil mixture via a green one-pot synthesis of carbamates, antimicrobial evaluation and dynamic ^1H -NMR study of their derivatives

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^a *Department of Chemistry, Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran*

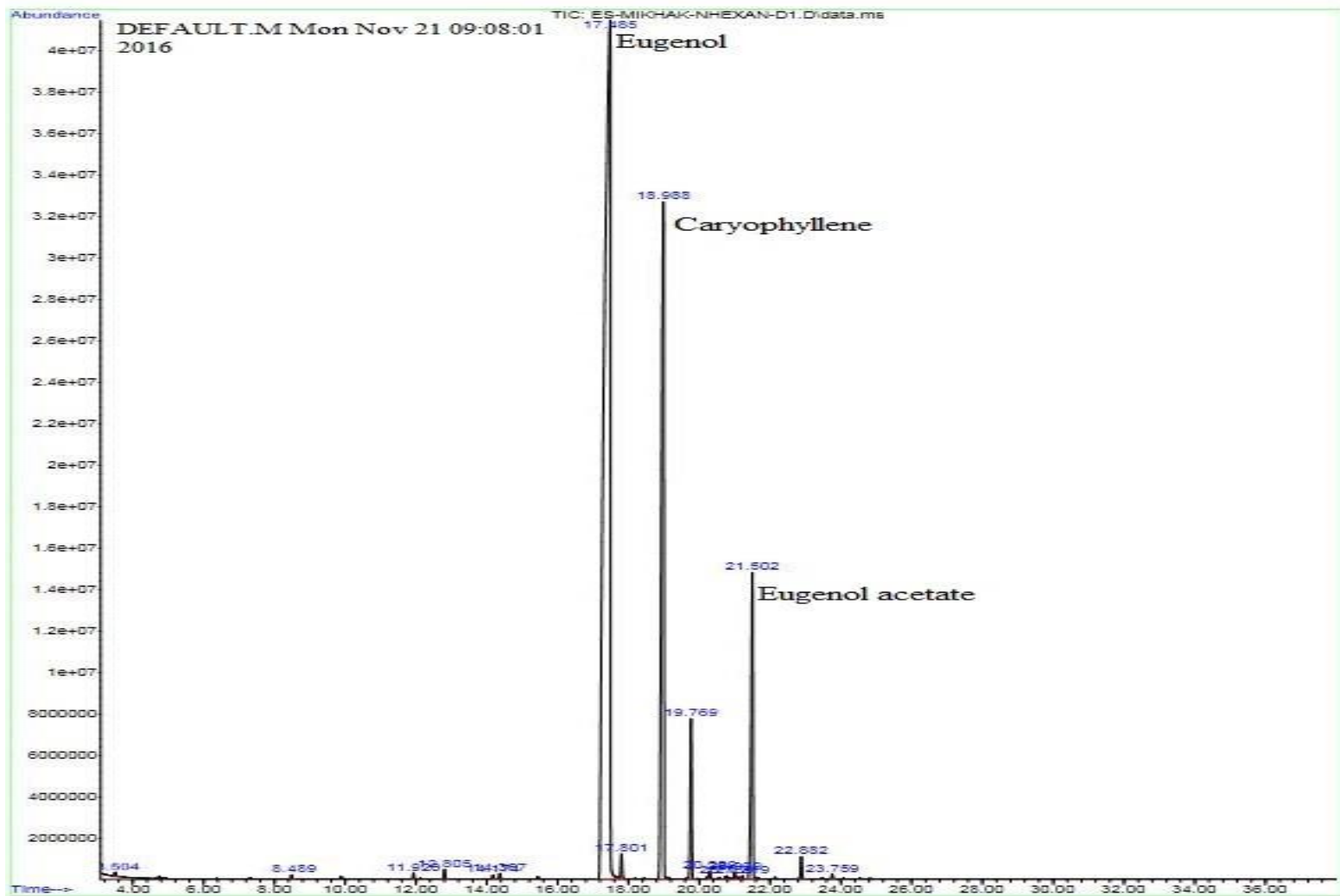
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^c *Department of Chemistry, Faculty of Science, University of Zabol, Zabol, Iran*

^d *Department of Chemistry, Kerman Branch, Islamic Azad University, Kerman, Iran*

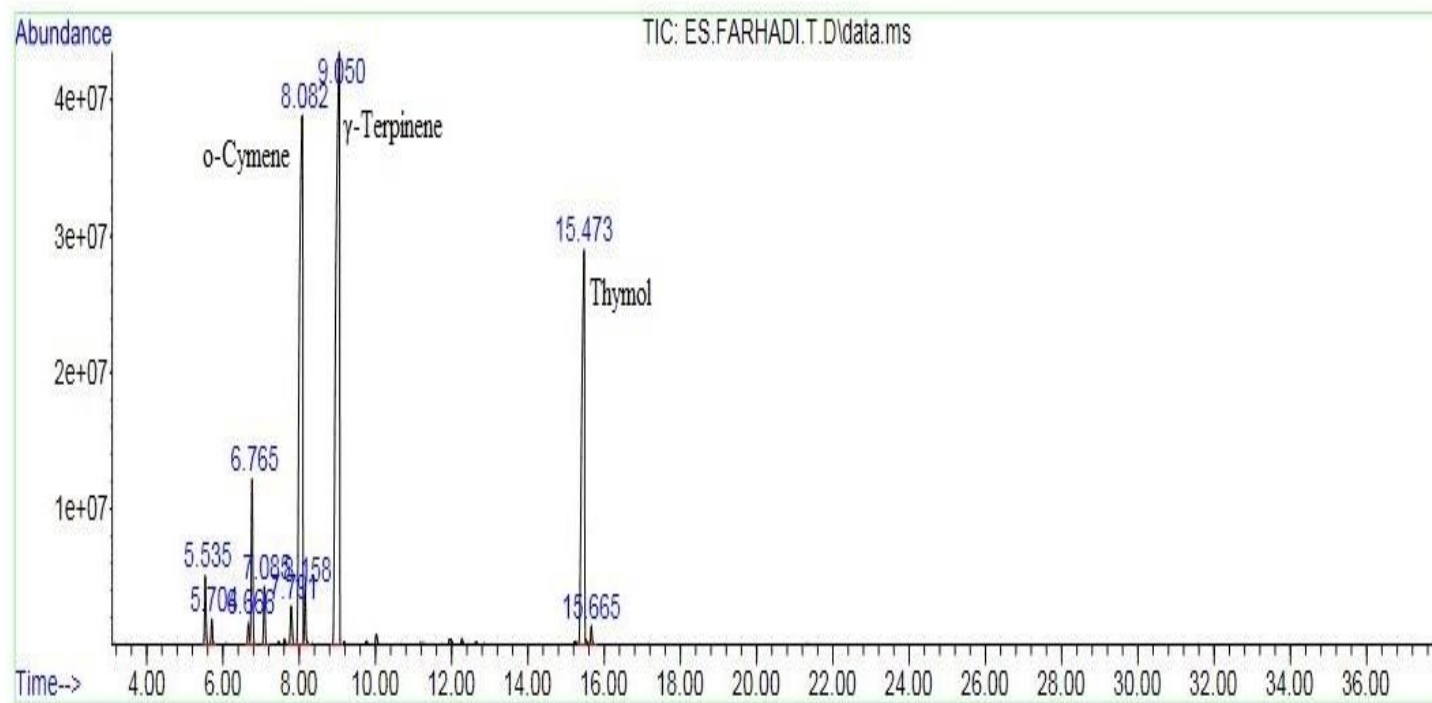
^e *Infections and Tropical Research Center, Zahedan University of Medical Sciences, Zahedan, Iran.*

^f *Department of Biology, Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran*

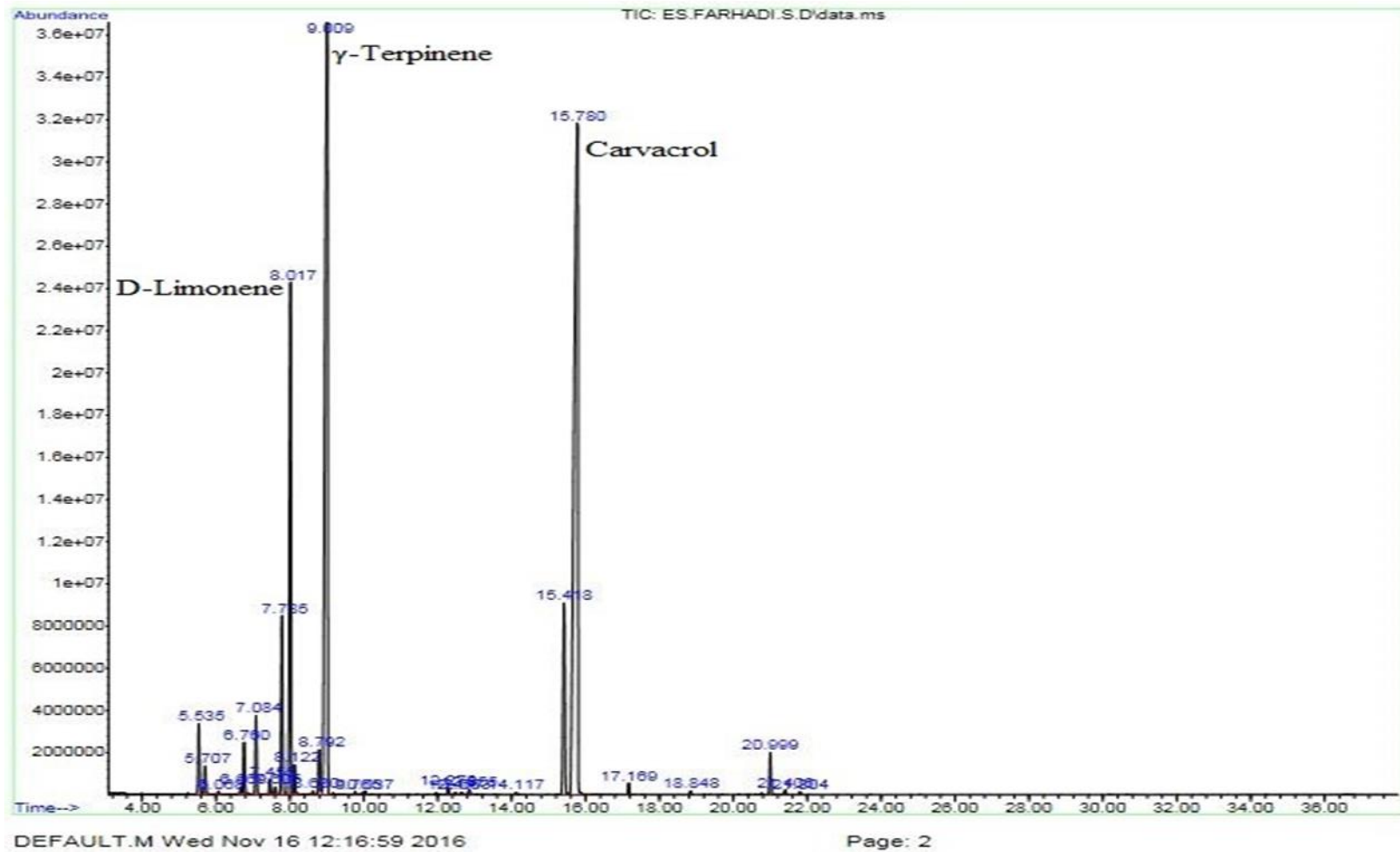


Chromatogram of essential oil of *Caryophyllus aromaticus*.

DEFAULT.M Mon Nov 21 07:29:46 2016



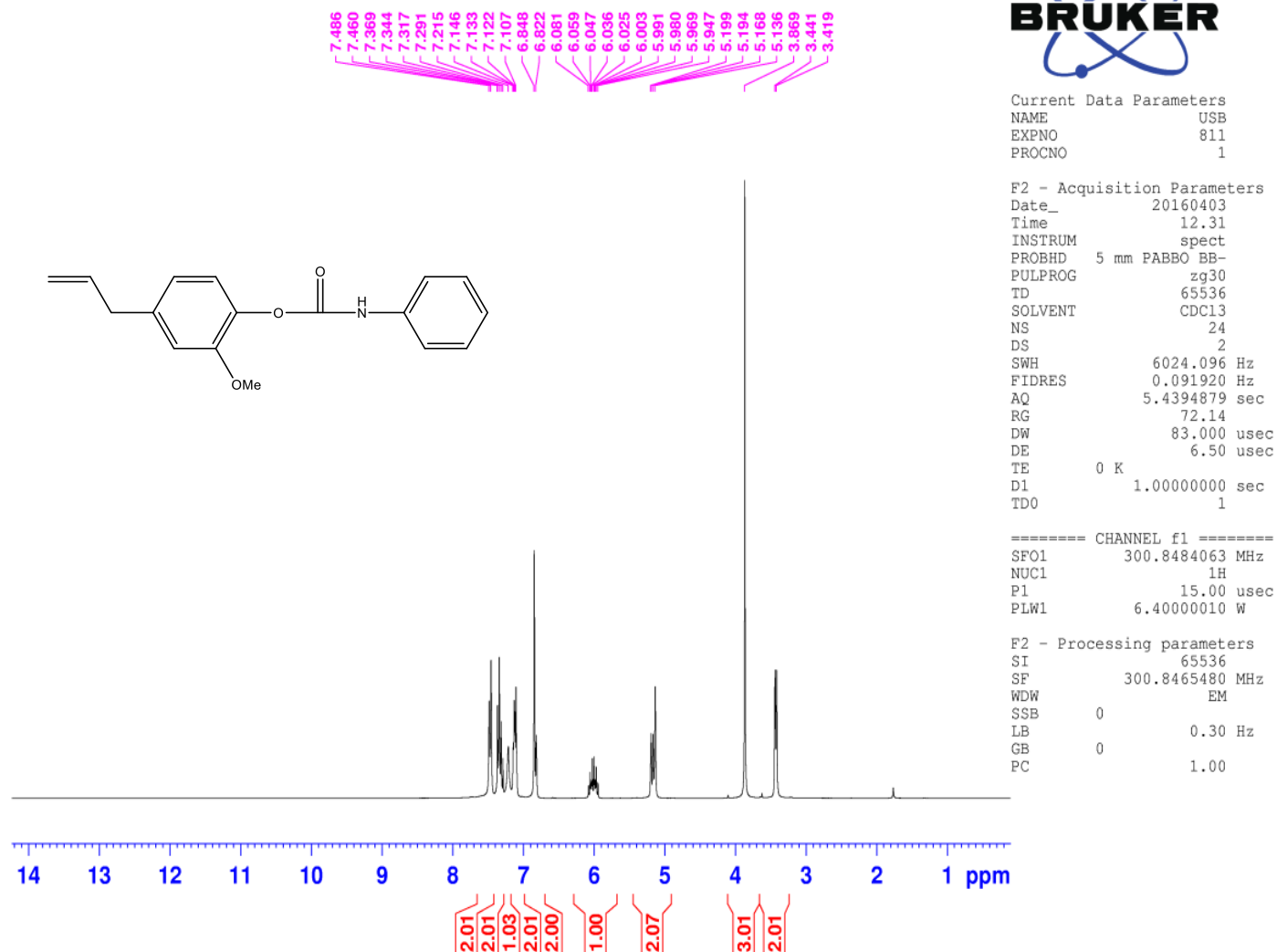
Chromatogram of essential oil of *Trachyspermum ammi*.



Chromatogram of essential oil of *Satureja hortensis*.

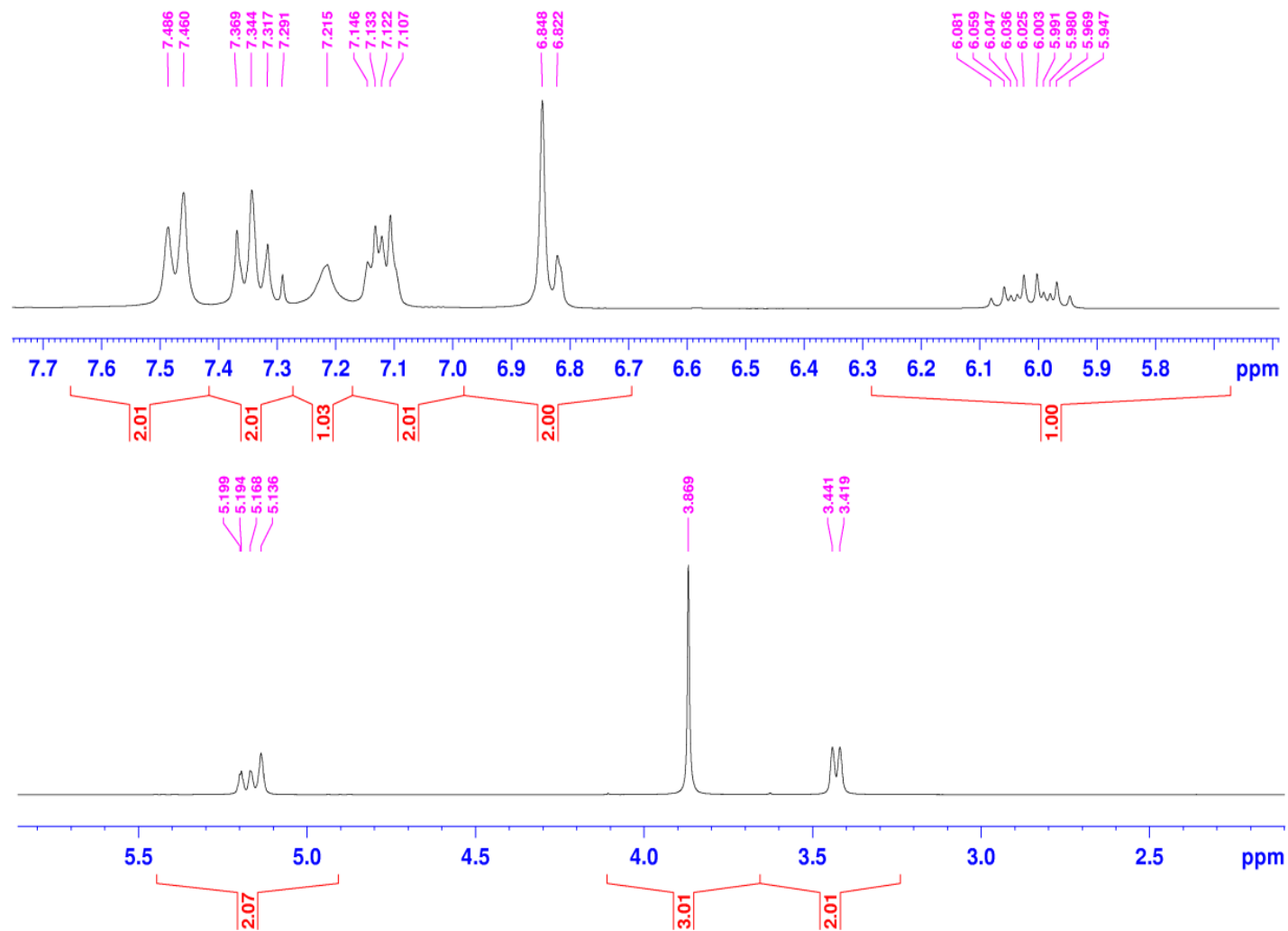
Chromatogram of essential oil of *Satureja bachtiarica* Bunge.

Dr.maghsodlou- code Cisoph(farhadi)-

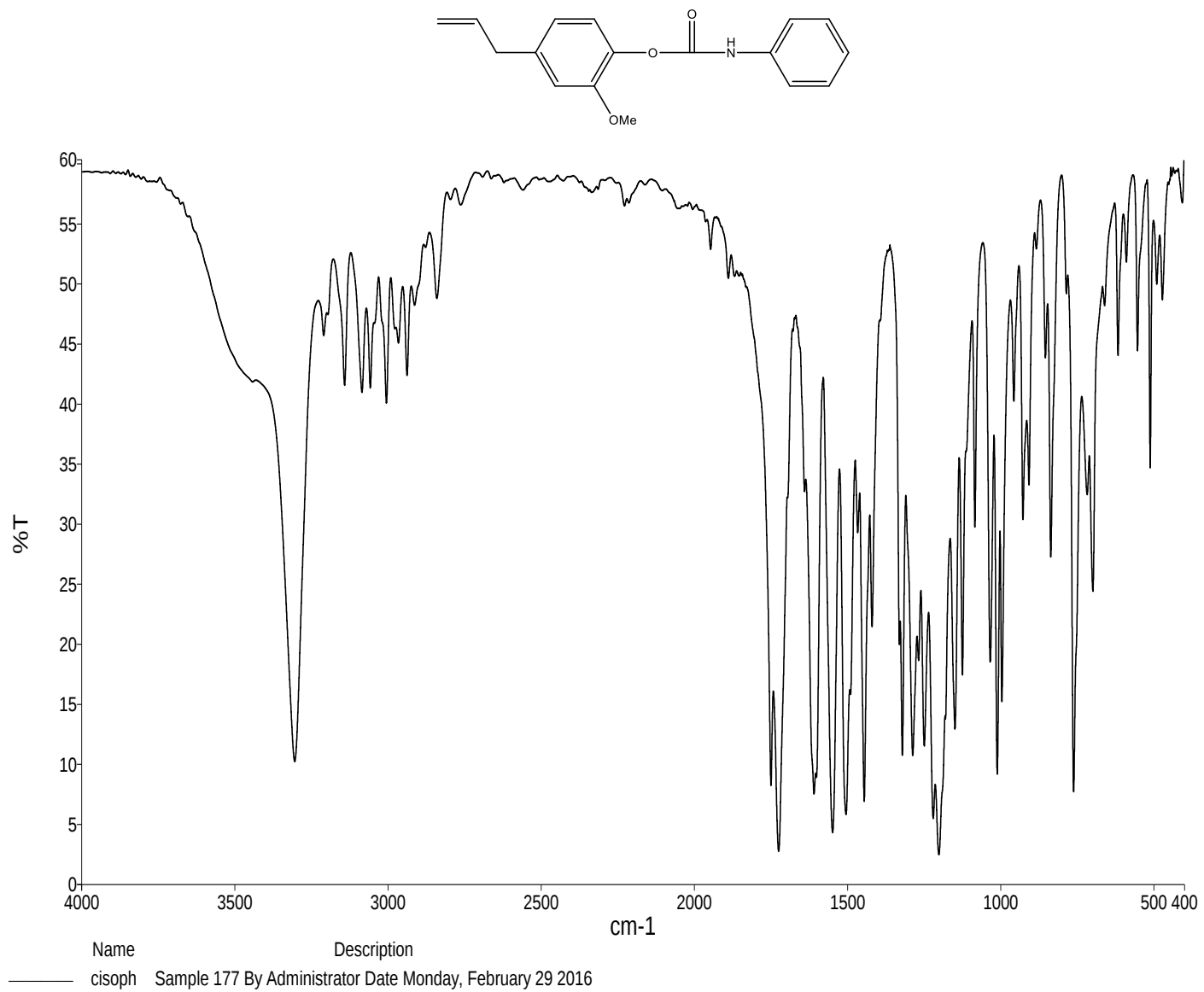


¹H NMR spectrum of (4-allyl-2-methoxyphenyl phenylcarbamate).

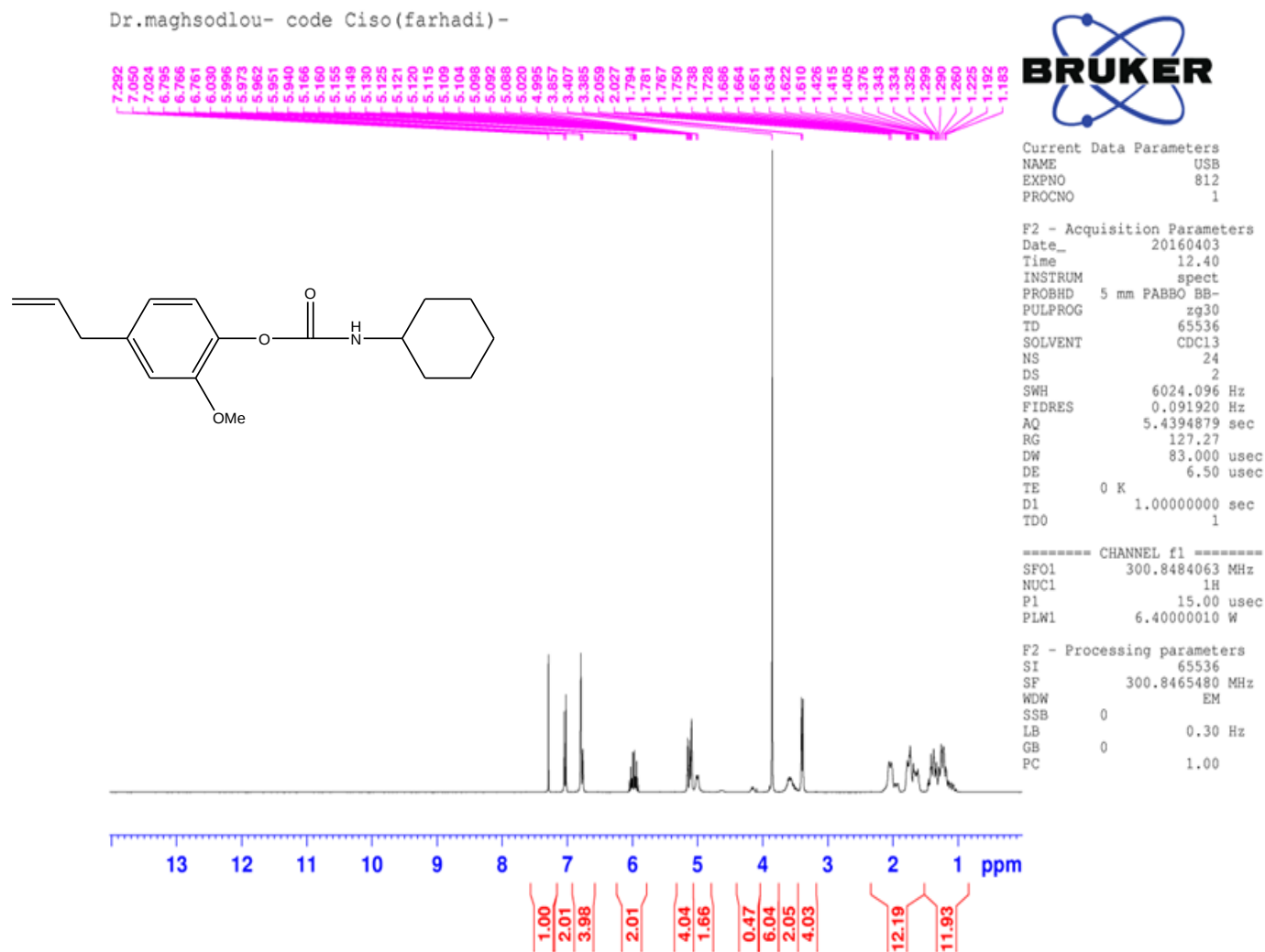
Dr.maghsodlou- code Cisoph(farhadi)-



The ^1H NMR spectrum of (4-allyl-2-methoxyphenyl phenylcarbamate).

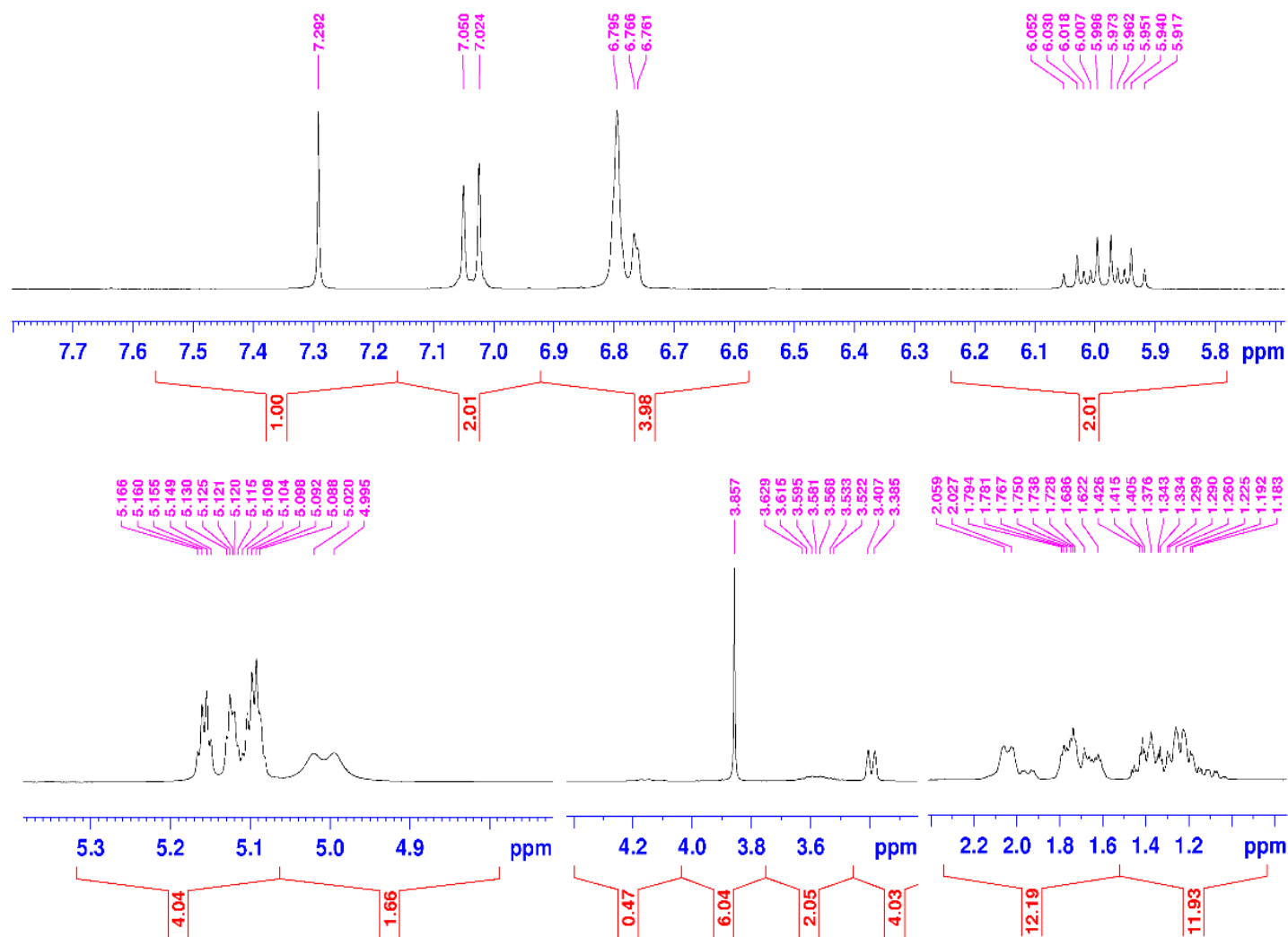


The IR spectrum of (4-allyl-2-methoxyphenyl phenylcarbamate).

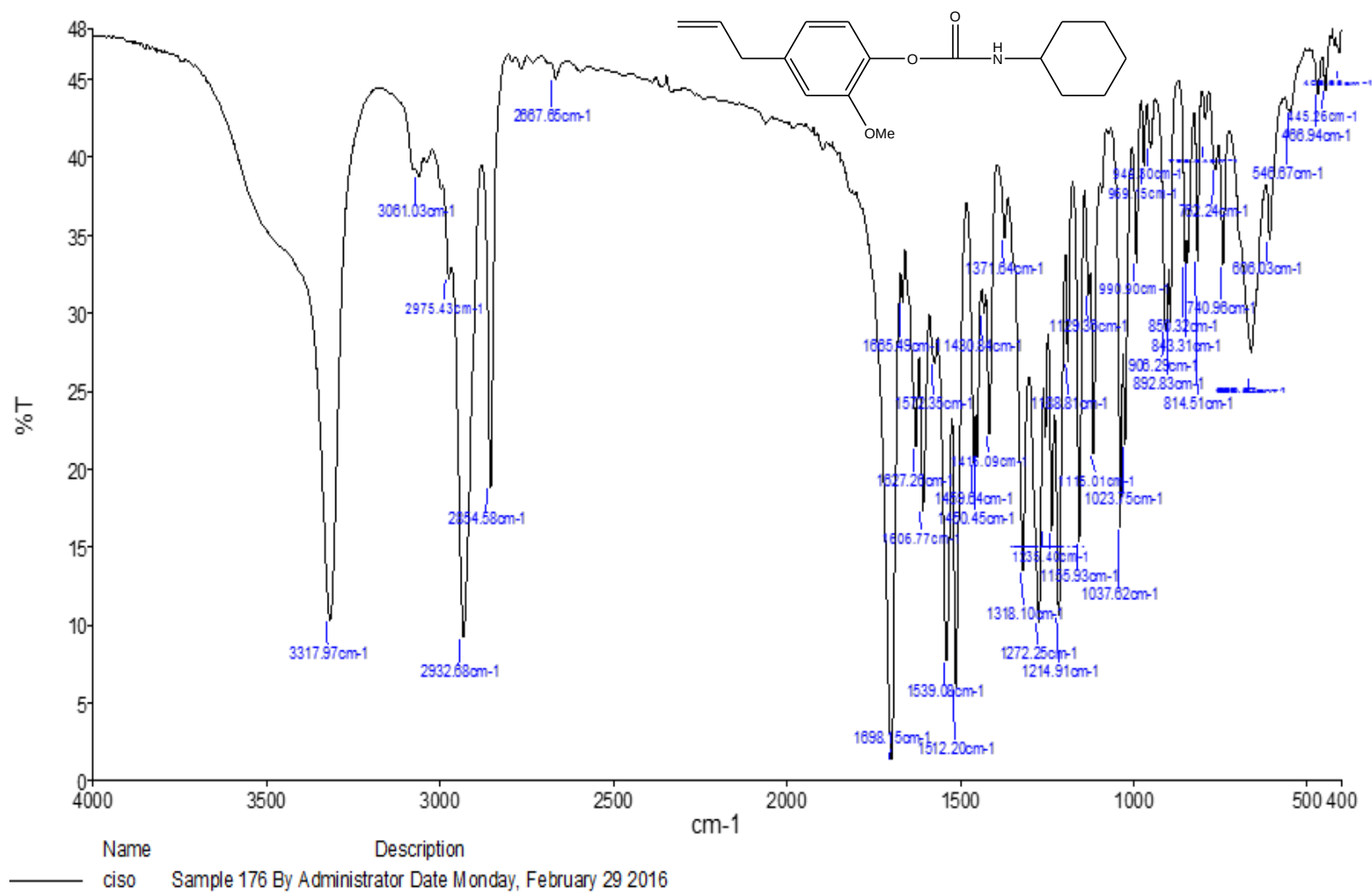


The ^1H NMR spectrum of (4-allyl-2-methoxyphenyl cyclohexylcarbamate).

Dr.maghsodlou- code Ciso(farhadi)-

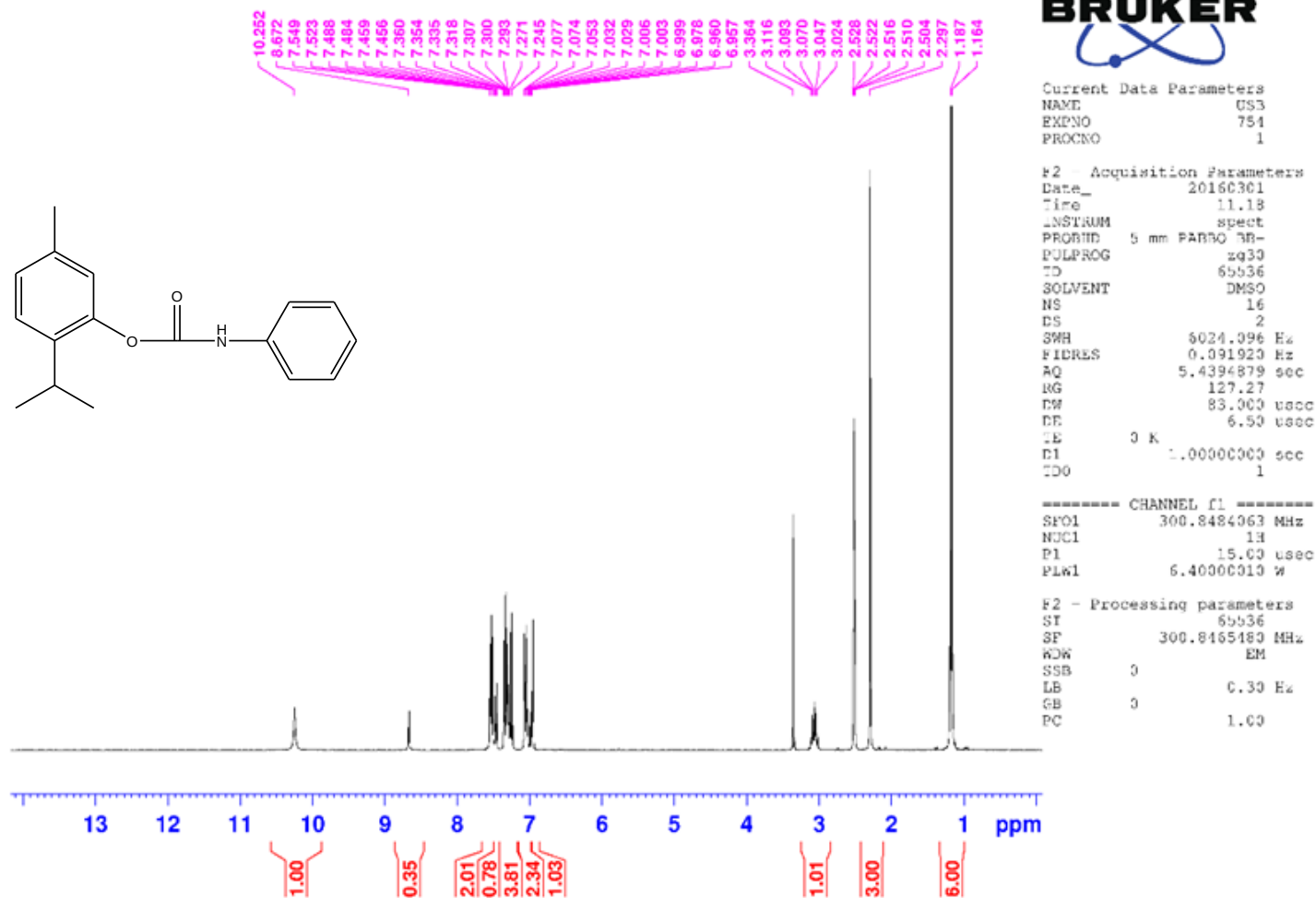


The ^1H NMR spectrum of (4-allyl-2-methoxyphenyl cyclohexylcarbamate).

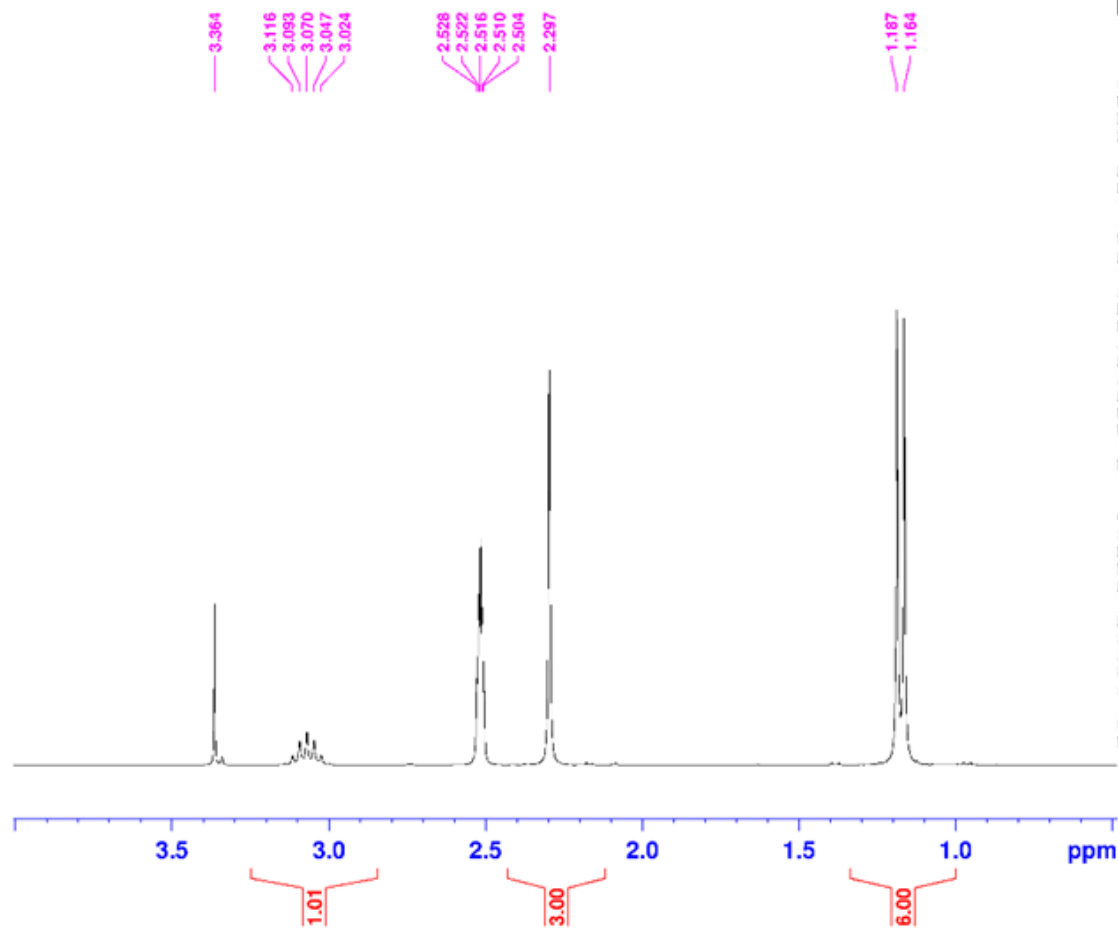


The IR spectrum of (4-allyl-2-methoxyphenyl cyclohexylcarbamate).

Dr.maghsodlou- code Tiso ph(farhadi)-

The ^1H NMR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

Dr.maghsodlou- code Tiso ph(farhadi)-



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EXPNO 751
PROCNO 1

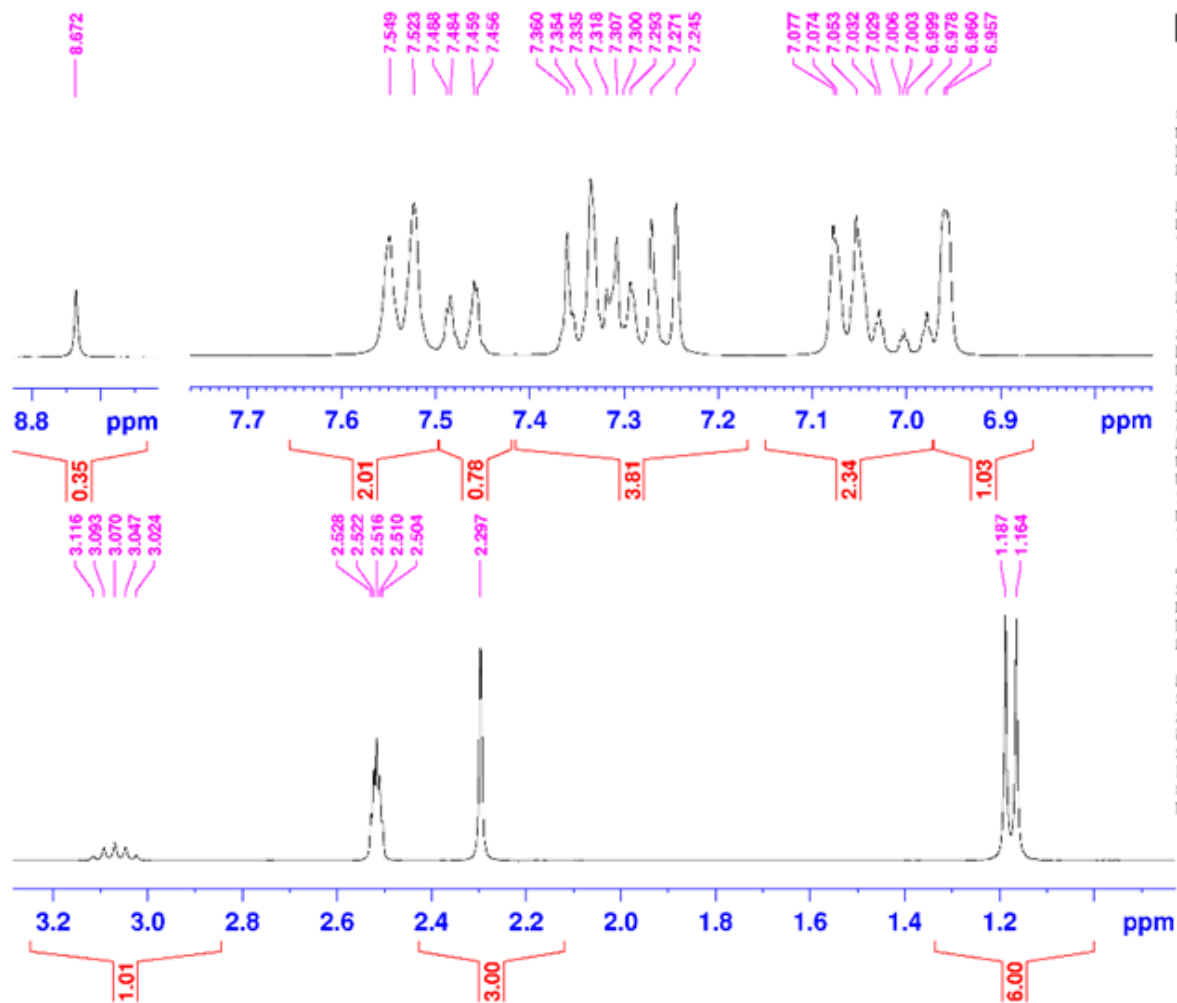
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DS 2
SWH 5024.096 Hz
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RG 127.27
CW 83.000 usec
DE 6.50 usec
TE 3 K
D1 1.00000000 sec
TD0 1

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NUC1 1H
P1 15.00 usec
PLW1 6.40000010 W

F2 - Processing parameters
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WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

The ^1H NMR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

Dr.maghsodlou- code Tiso ph(farhadi)-



Current Data Parameters
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EXPNO 754
PROCNO 1

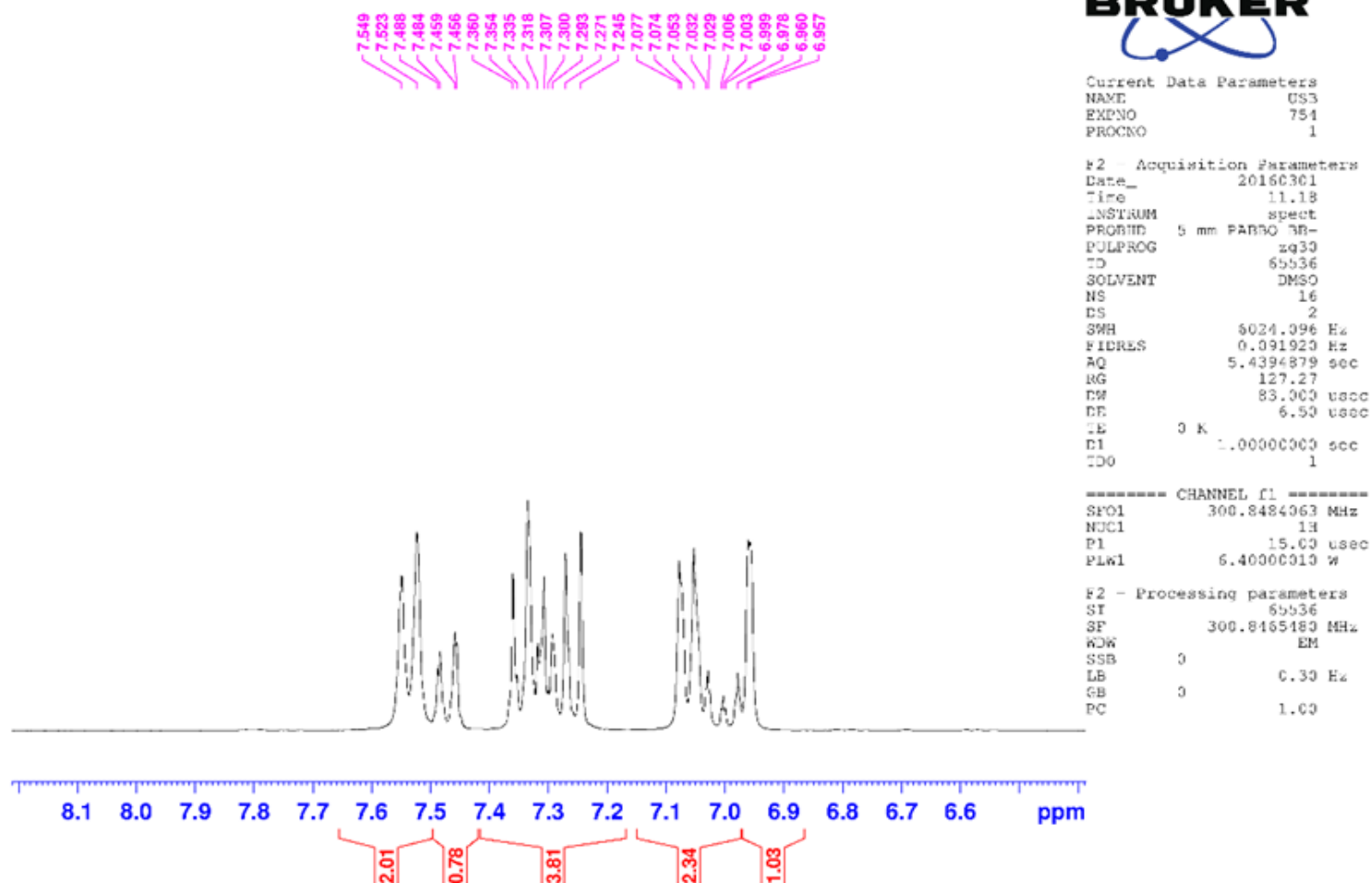
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EW 83.900 uscc
DE 6.50 uscc
TE 300 K
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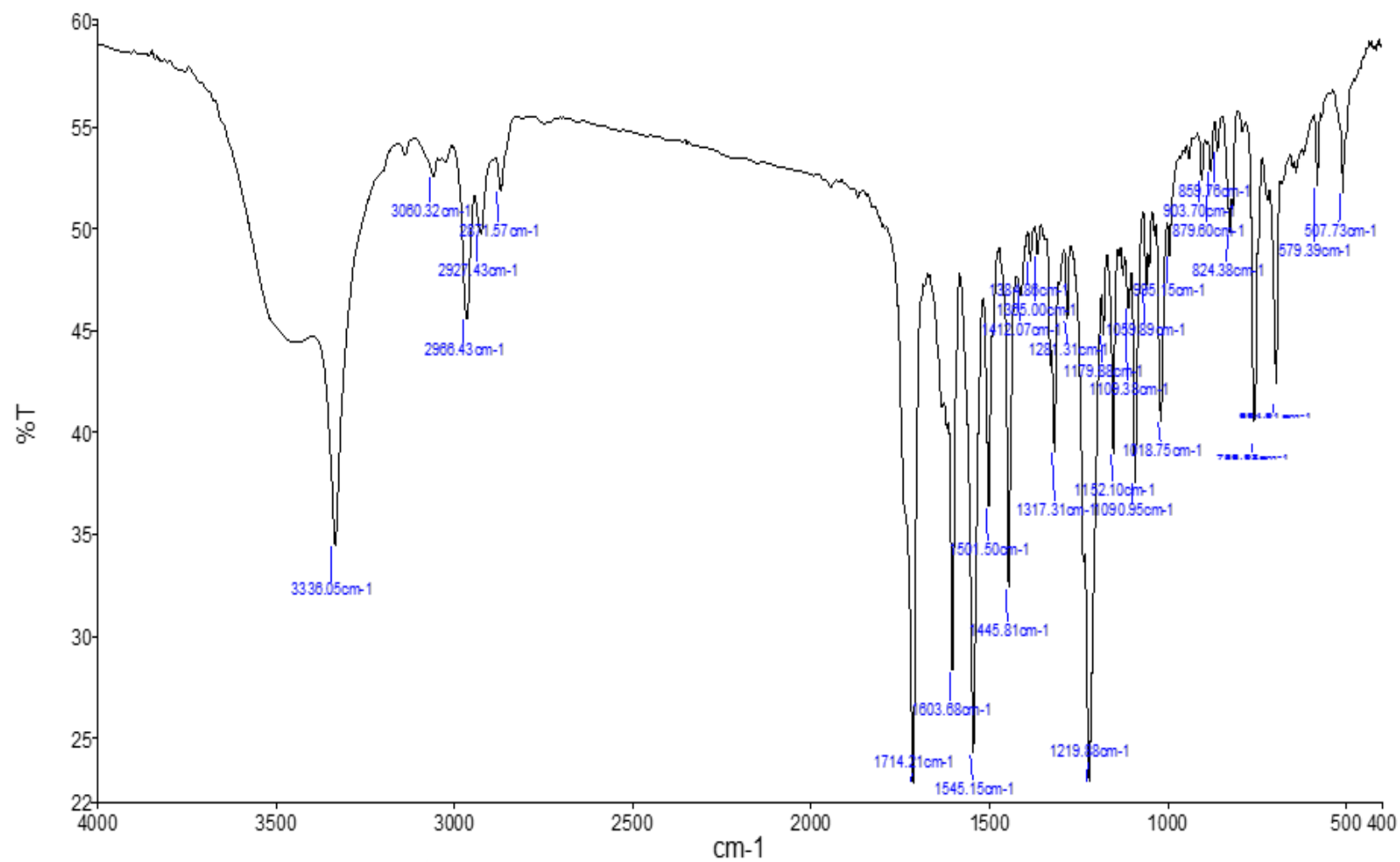
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GB 0
PC 1.00

The ^1H NMR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

Dr.maghsodlou- code Tiso ph(farhadi)-



The ^1H NMR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

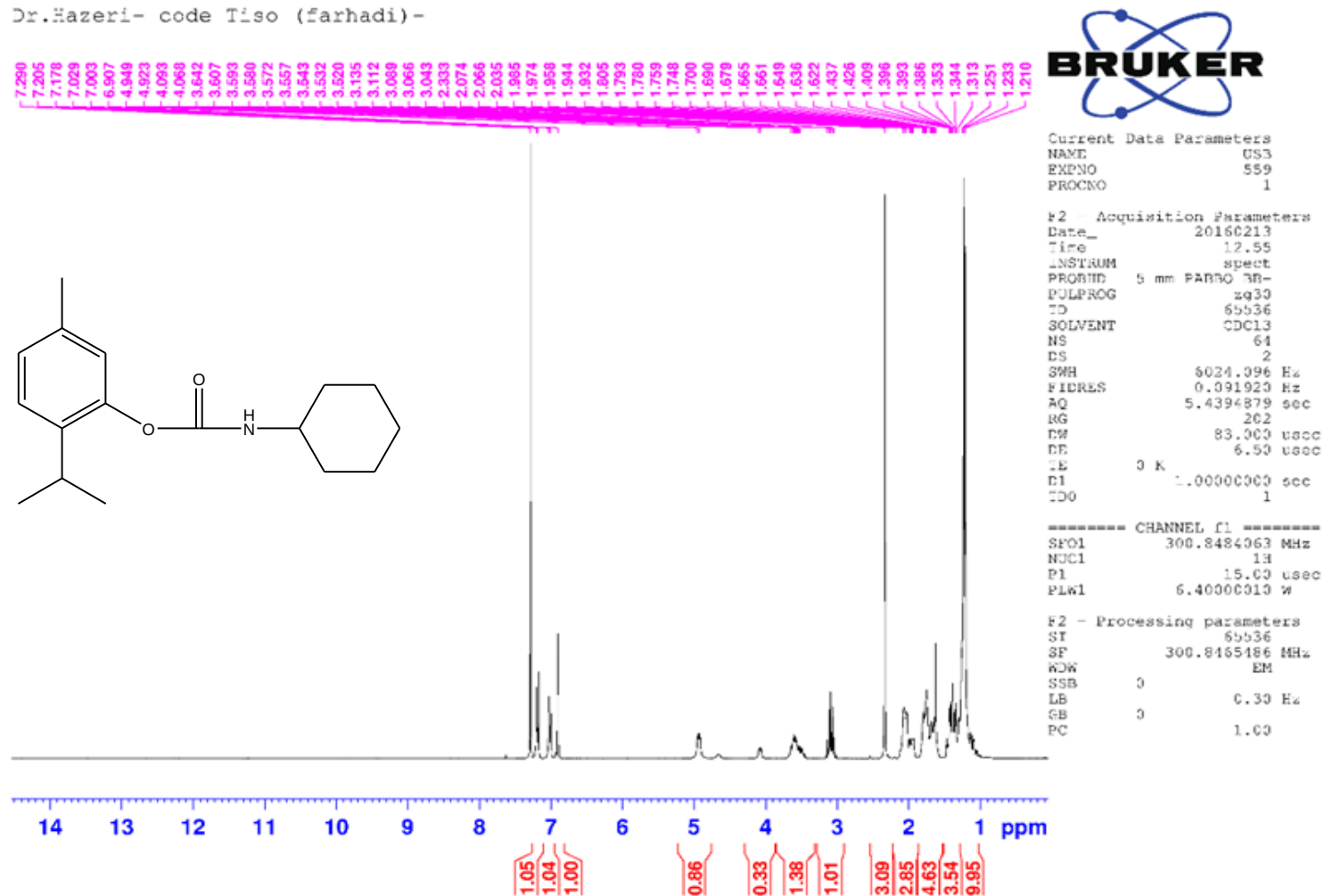


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94-11-21 Sample 144 By Administrator Date Wednesday, February 10 2016

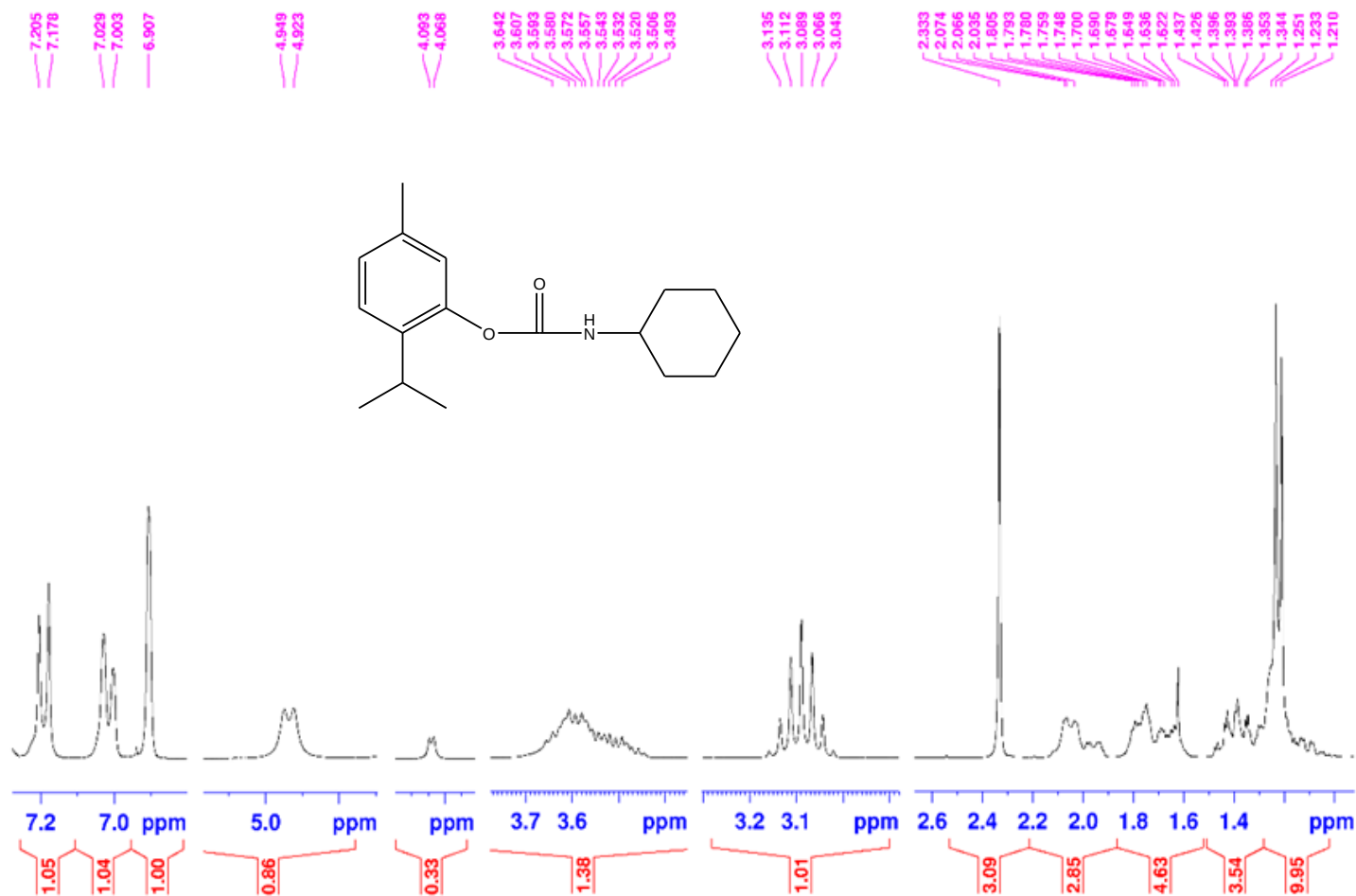
Description

The IR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

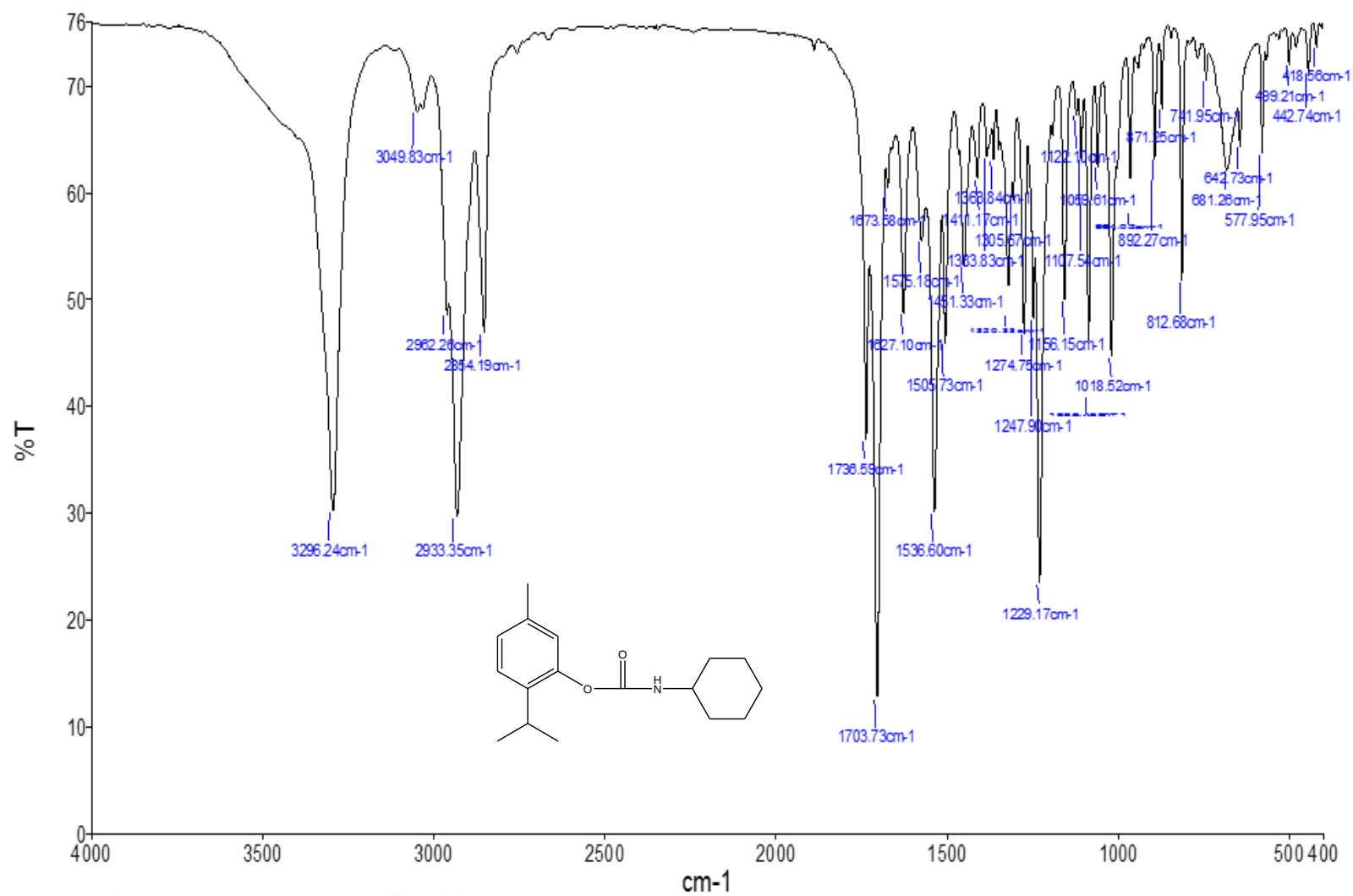
Dr.Hazeri- code Tiso (farhadi)-

The ^1H NMR spectrum of (2-isopropyl-5-methylphenyl cyclohexylcarbamate).

Dr.Hazeri- code Tiso (farhadi)-



The ¹H NMR spectrum of (2-isopropyl-5-methylphenyl) cyclohexylcarbamate)



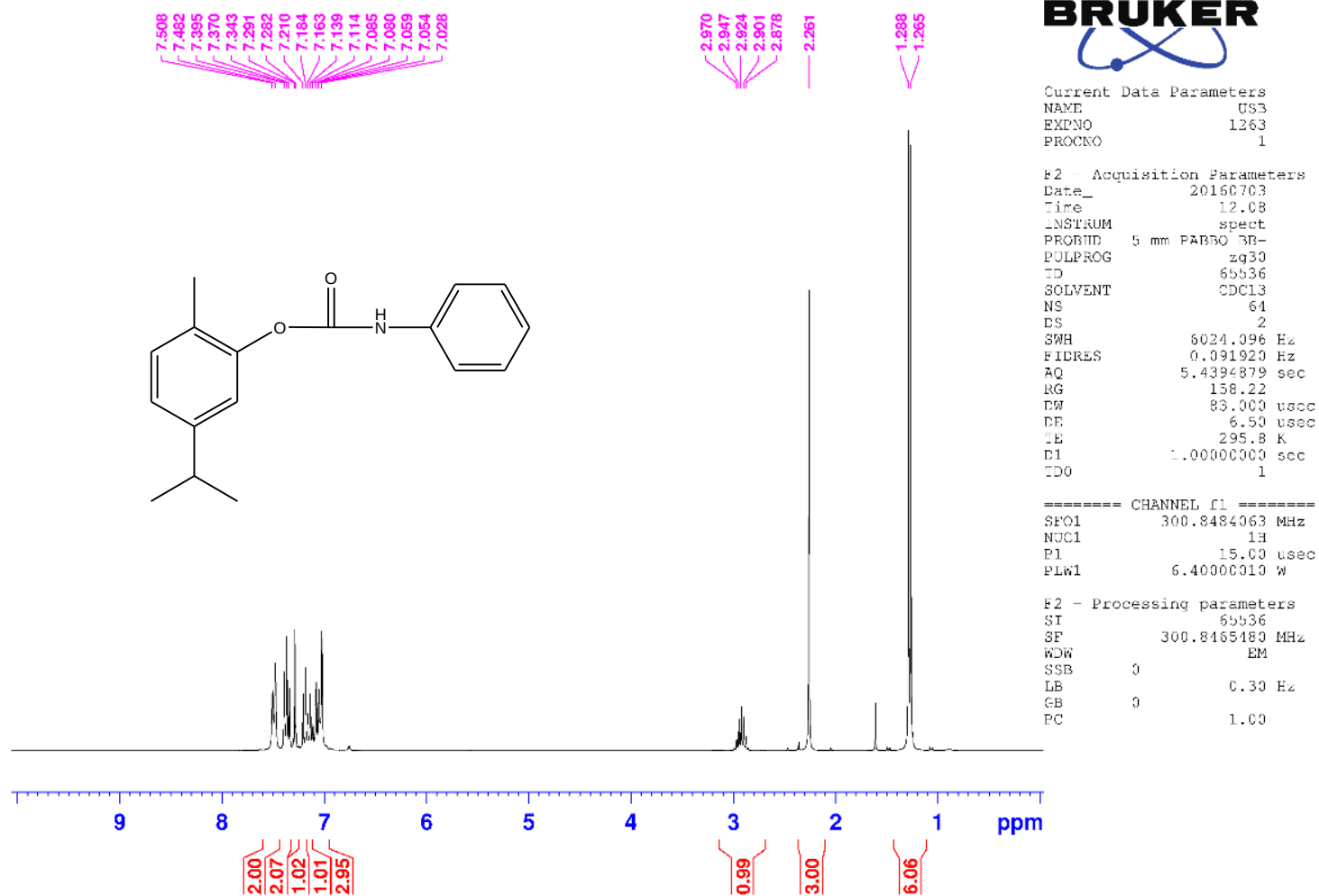
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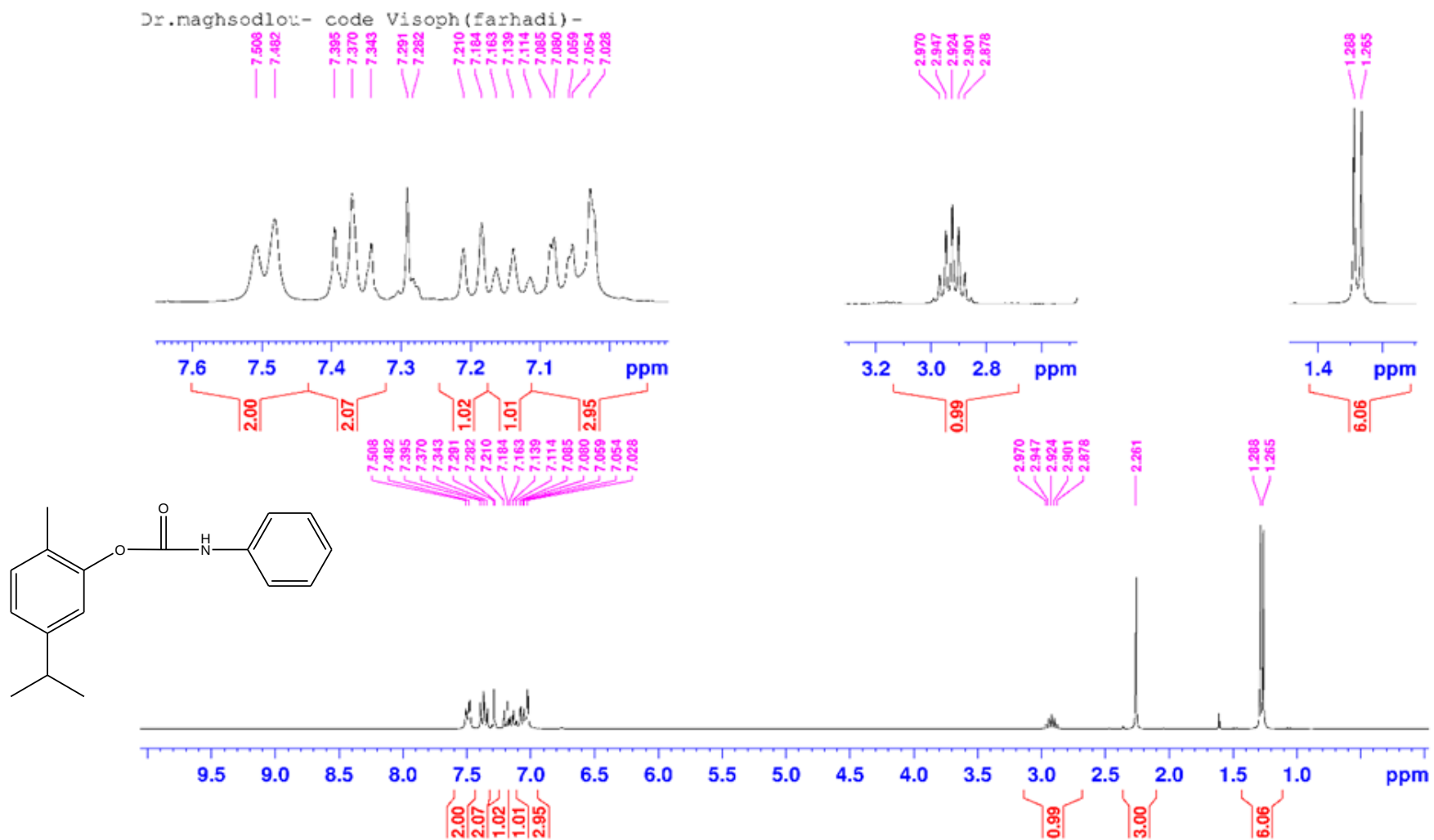
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94-10-22 Sample 104 By Administrator Date Tuesday, January 12 2016

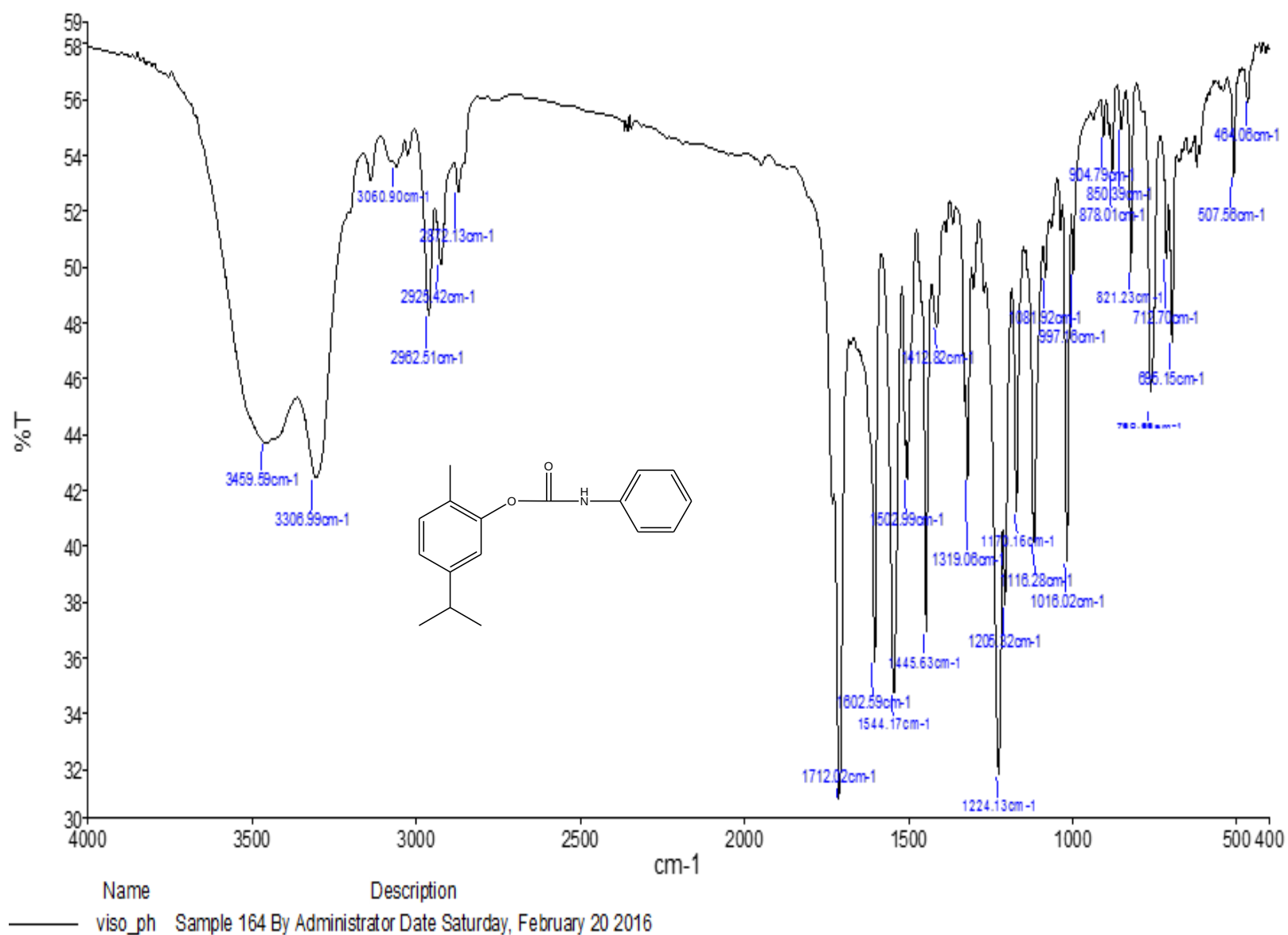
The IR spectrum of (2-isopropyl-5-methylphenyl phenylcarbamate).

Dr.maghsodlou- code Visoph(farhadi)-

The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl phenylcarbamate).

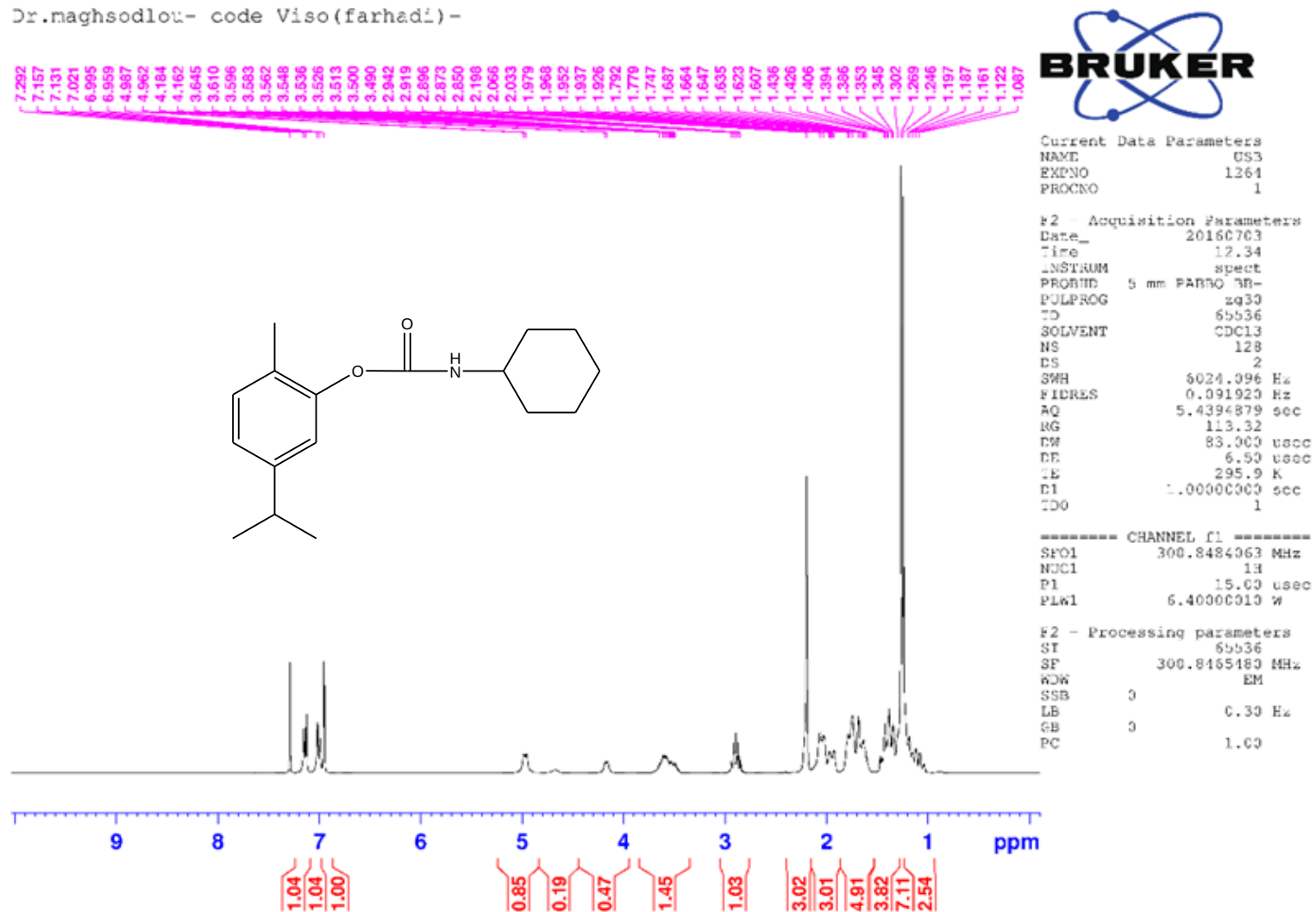


The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl) phenylcarbamate).

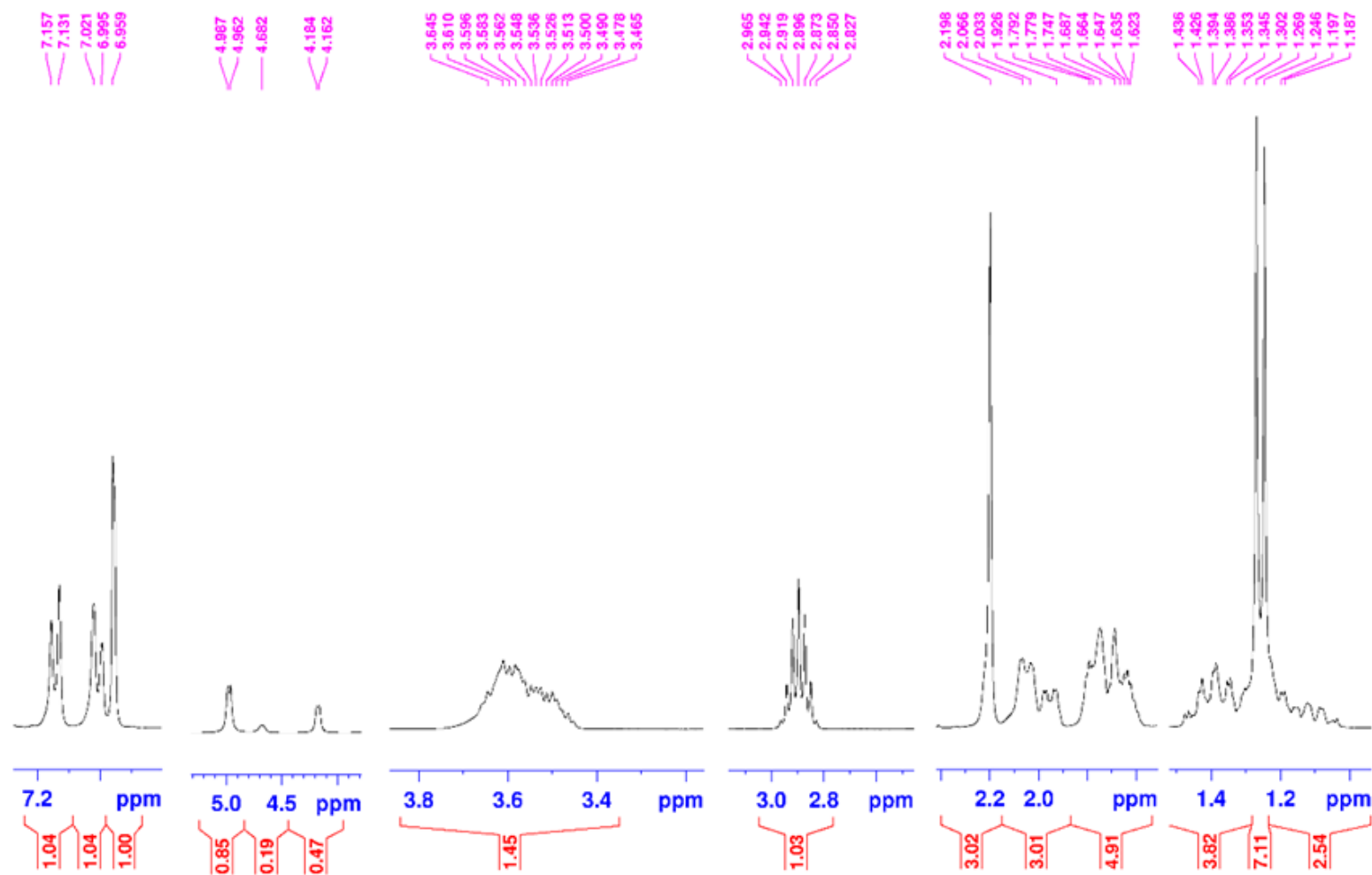


The IR spectrum of (5-isopropyl-2-methylphenyl phenylcarbamate).

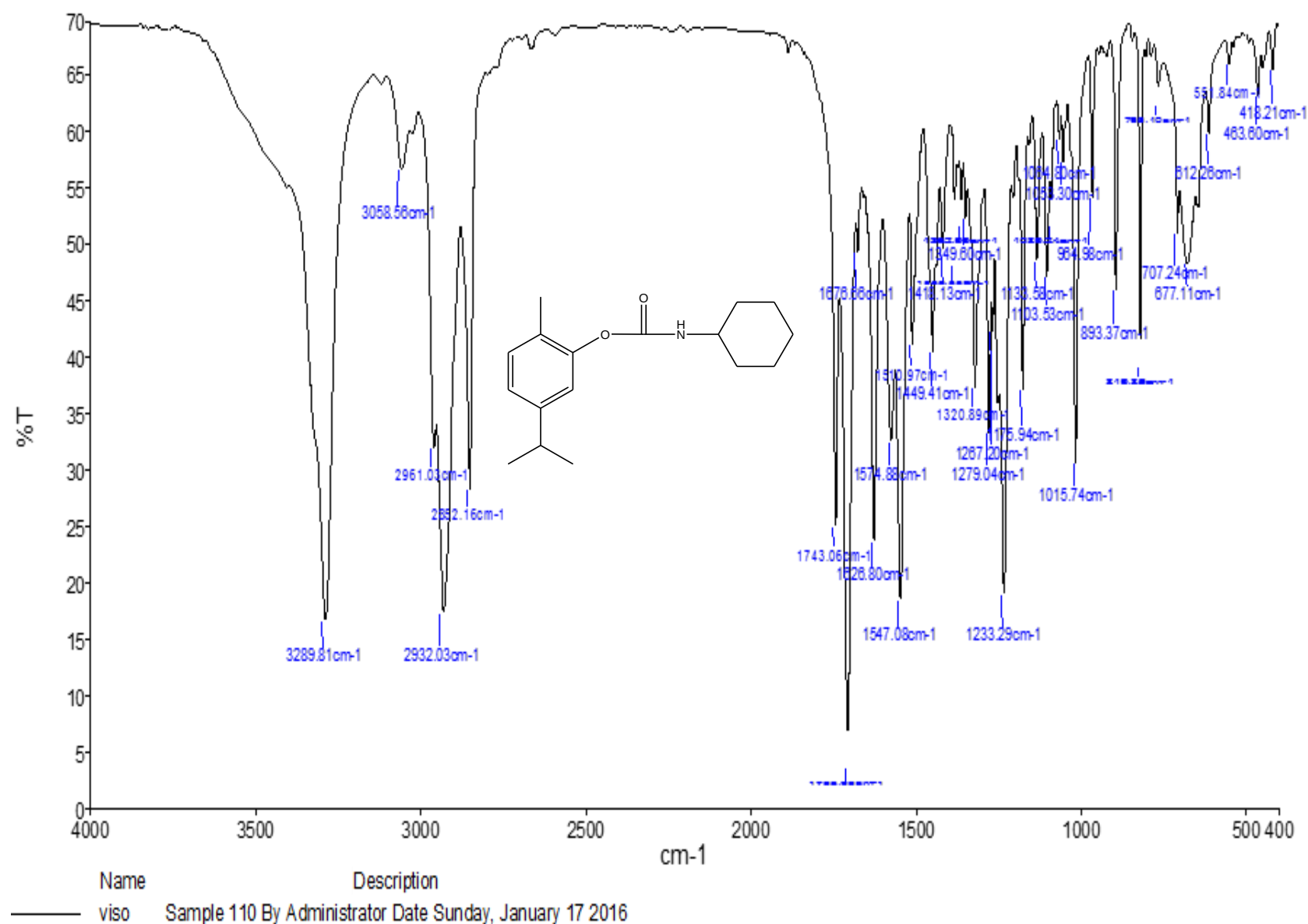
Dr.maghsoodlou- code Viso(farhadi)-

The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl) cyclohexylcarbamate).

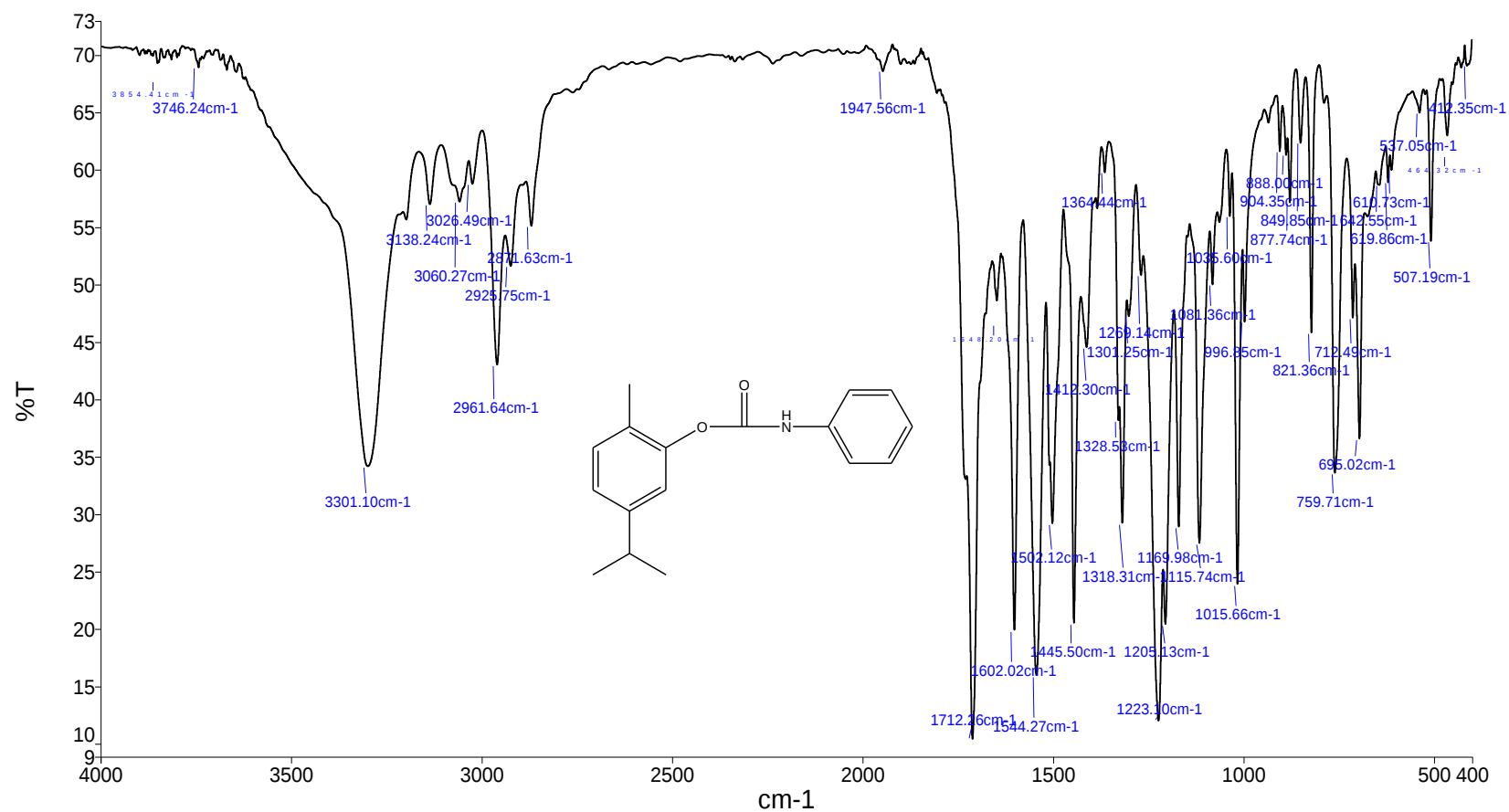
Dr.maghsodlou- code Viso(farhadi)-



The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl cyclohexylcarbamate).



The IR spectrum of (5-isopropyl-2-methylphenyl cyclohexylcarbamate).

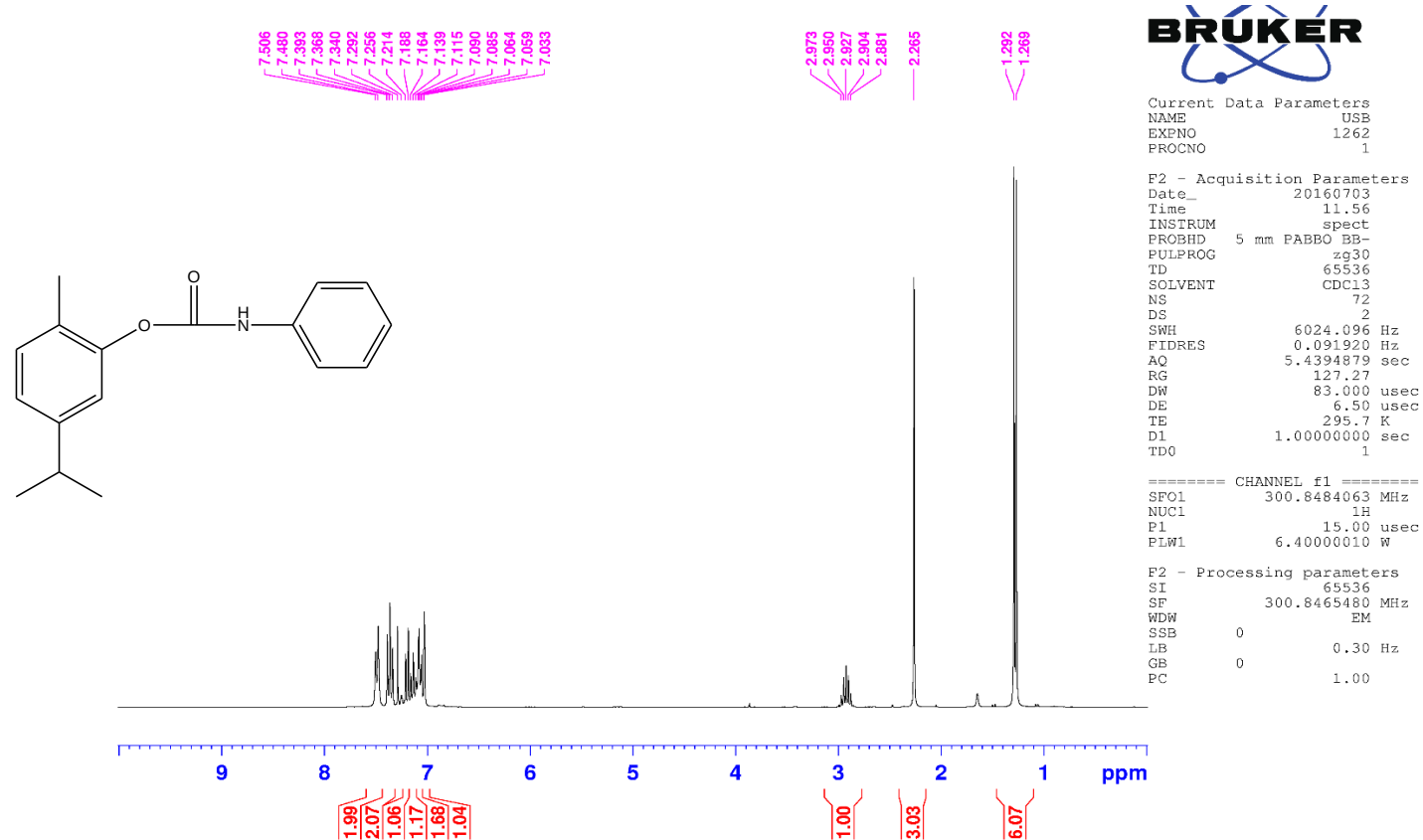


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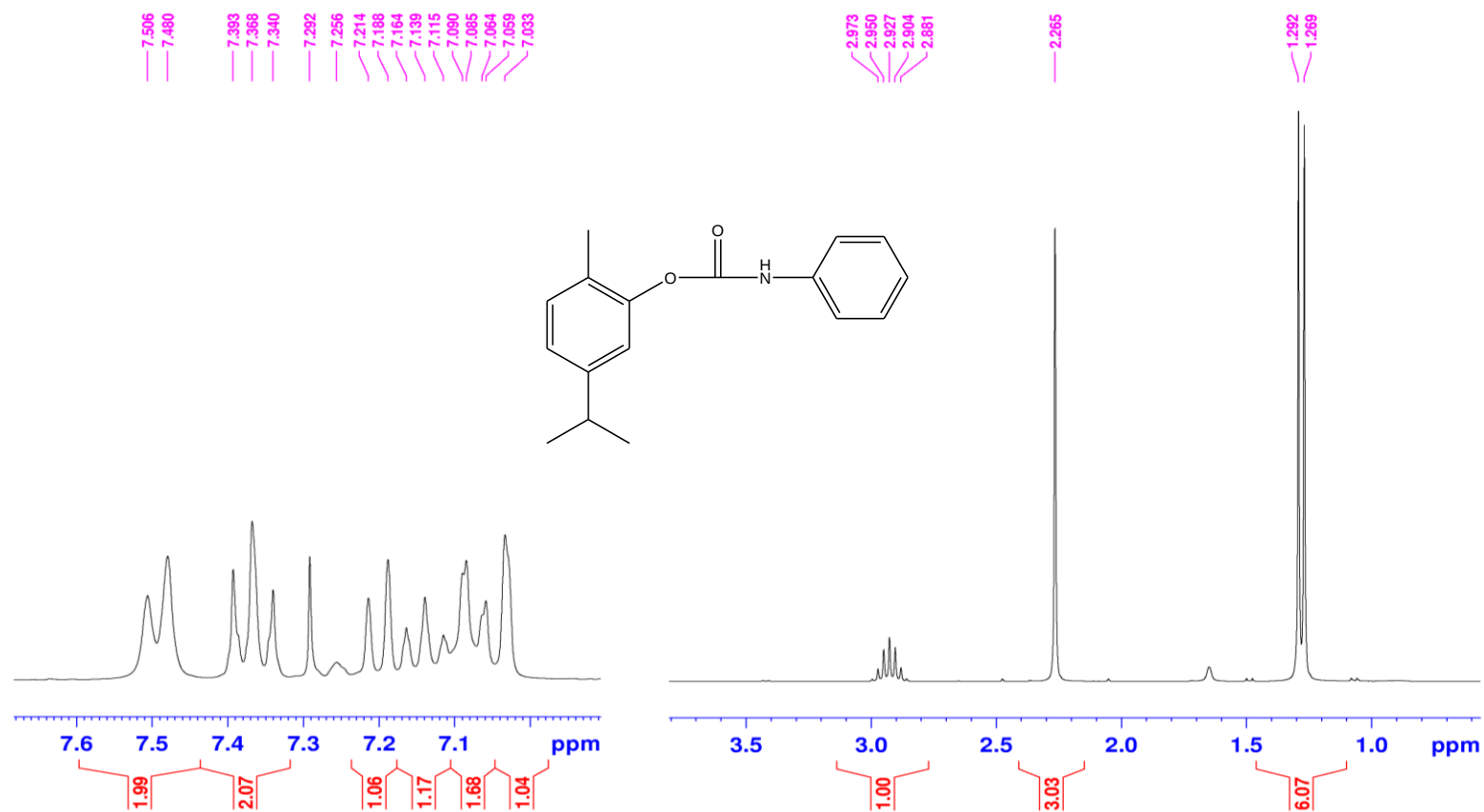
Description

Siso ph Sample 219 By Administrator Date Sunday, May 08 2016

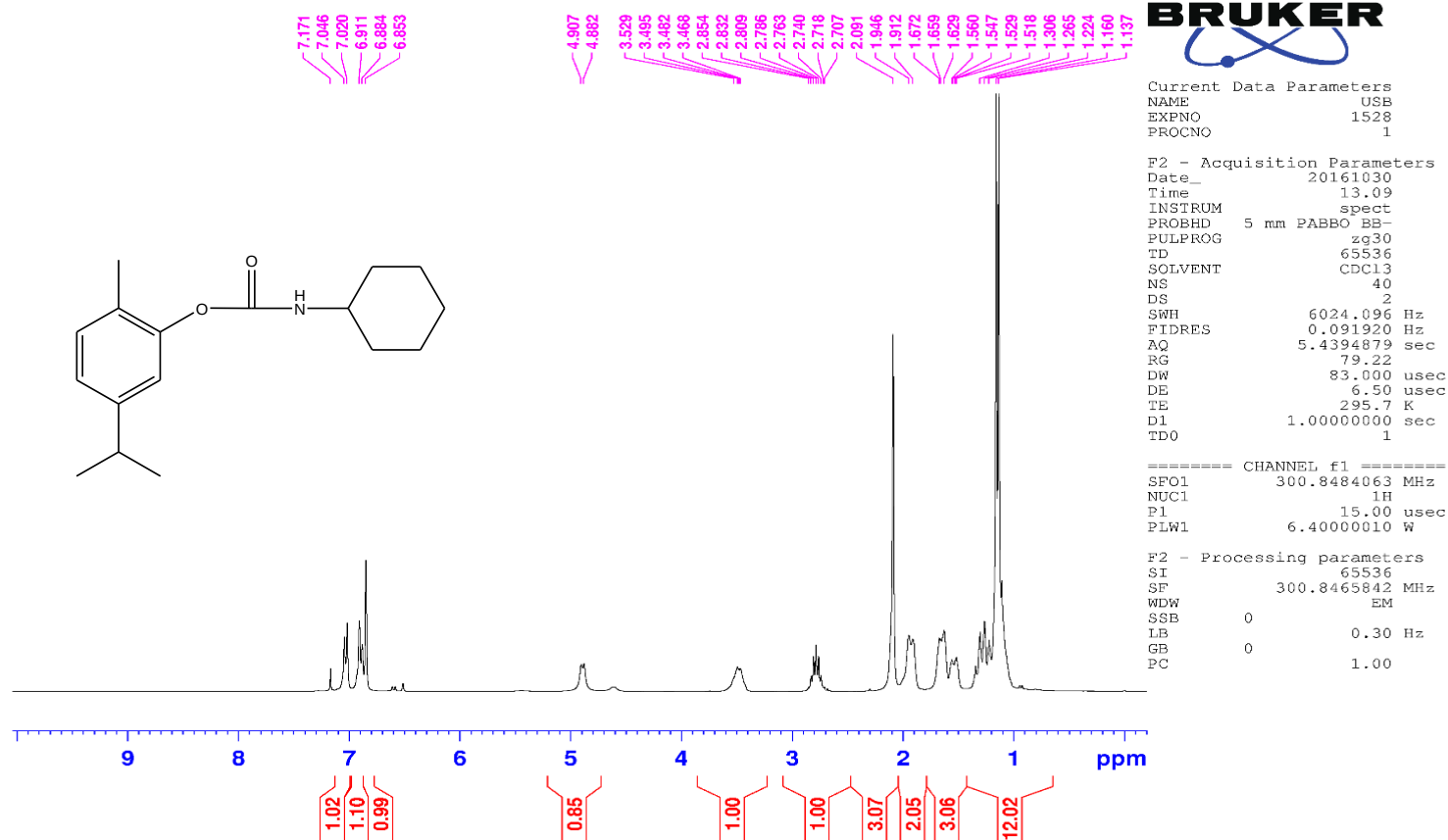
The IR spectrum of (5-isopropyl-2-methylphenyl phenylcarbamate).



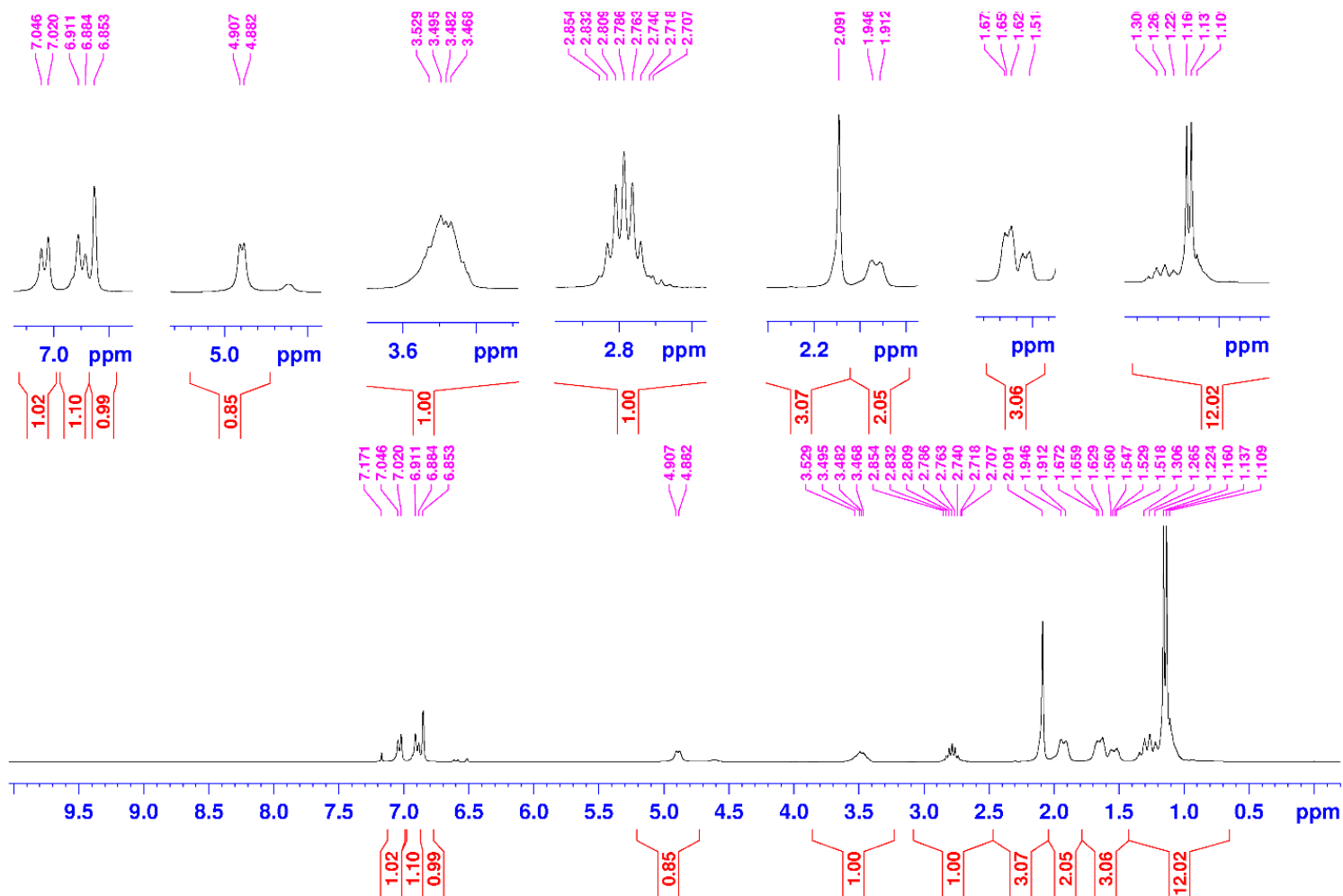
The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl phenylcarbamate).



The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl phenylcarbamate).



The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl) cyclohexylcarbamate).



The ^1H NMR spectrum of (5-isopropyl-2-methylphenyl cyclohexylcarbamate).