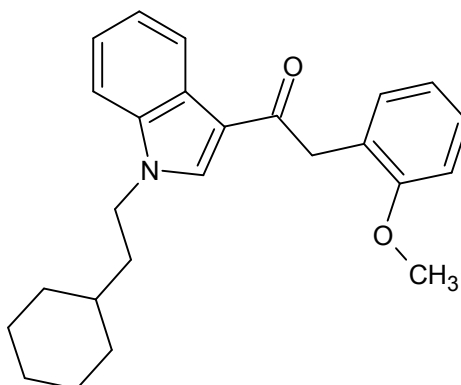




RCS-8

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



1. GENERAL INFORMATION

IUPAC Name: 1-[1-(2-cyclohexylethyl)-1H-indol-3-yl]-2-(2-methoxyphenyl)ethanone

CAS#: 1345970-42-4

Synonyms: 1-(2-cyclohexylethyl)-3-(2-methoxyphenylacetyl)indole; SR-18; BTM-8; 2-(2-methoxyphenyl)-1-[1-(2-cyclohexylethyl)indol-3-yl]ethanone

Source: DEA Reference Material Collection

Appearance: Off-white powder

UV_{max}(nm): Not Determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₂₅ H ₂₉ NO ₂	375	97.7



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3. QUALITATIVE DATA

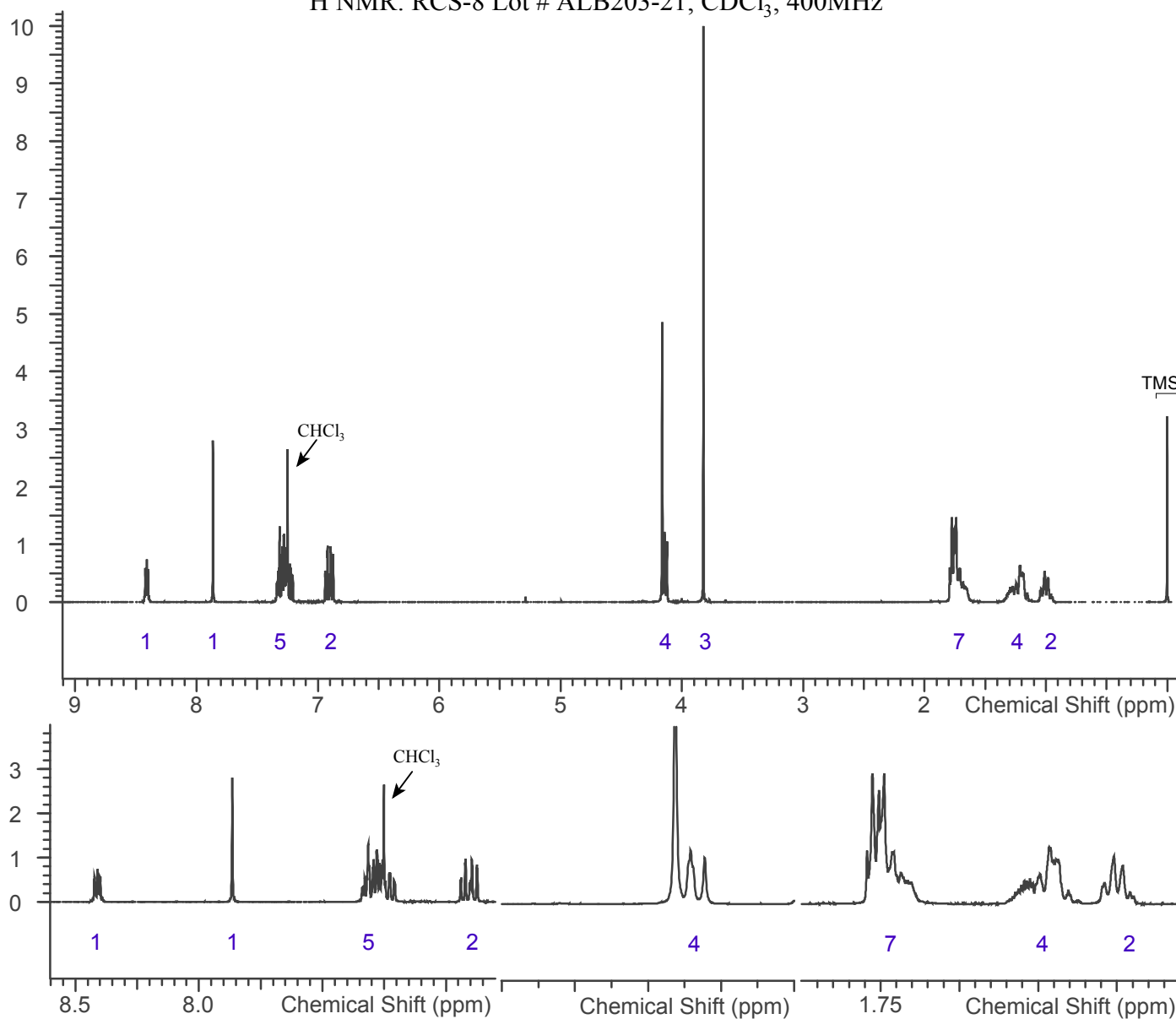
3.1 NUCLEAR MAGNETIC RESONANCE

Method NMR CDCl_3

Sample Preparation: Dilute analyte to ~5 mg/mL in CDCl_3 containing TMS for 0 ppm reference.

Instrument: 400 MHz NMR spectrometer
Parameters: Spectral width: at least containing -3 ppm through 13 ppm
Pulse angle: 90°
Delay between pulses: 45 seconds

^1H NMR: RCS-8 Lot # ALB203-21; CDCl_3 ; 400MHz





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3.2 Gas Chromatography/Mass Spectrometry

Sample Preparation: Dilute analyte ~1 mg/mL in 9:1 chloroform/methanol.

Instrument: Agilent gas chromatograph operated in split mode with MS detector

Column: DB-1 MS (or equivalent); 30m x 0.25 mm x 0.25 μ m

Carrier Gas: Helium at 1 mL/min

Temperatures: Injector: 280°C

MSD transfer line: 280°C

MS Source: 230°C

MS Quad: 150°C

Oven program:

1) 100°C initial temperature for 1.0 min

2) Ramp to 300°C at 12 °C/min

3) Hold final temperature for 9.0 min

Injection Parameters: Split Ratio = 20:1, 1 μ L injected

MS Parameters: Mass scan range: 30-550 amu

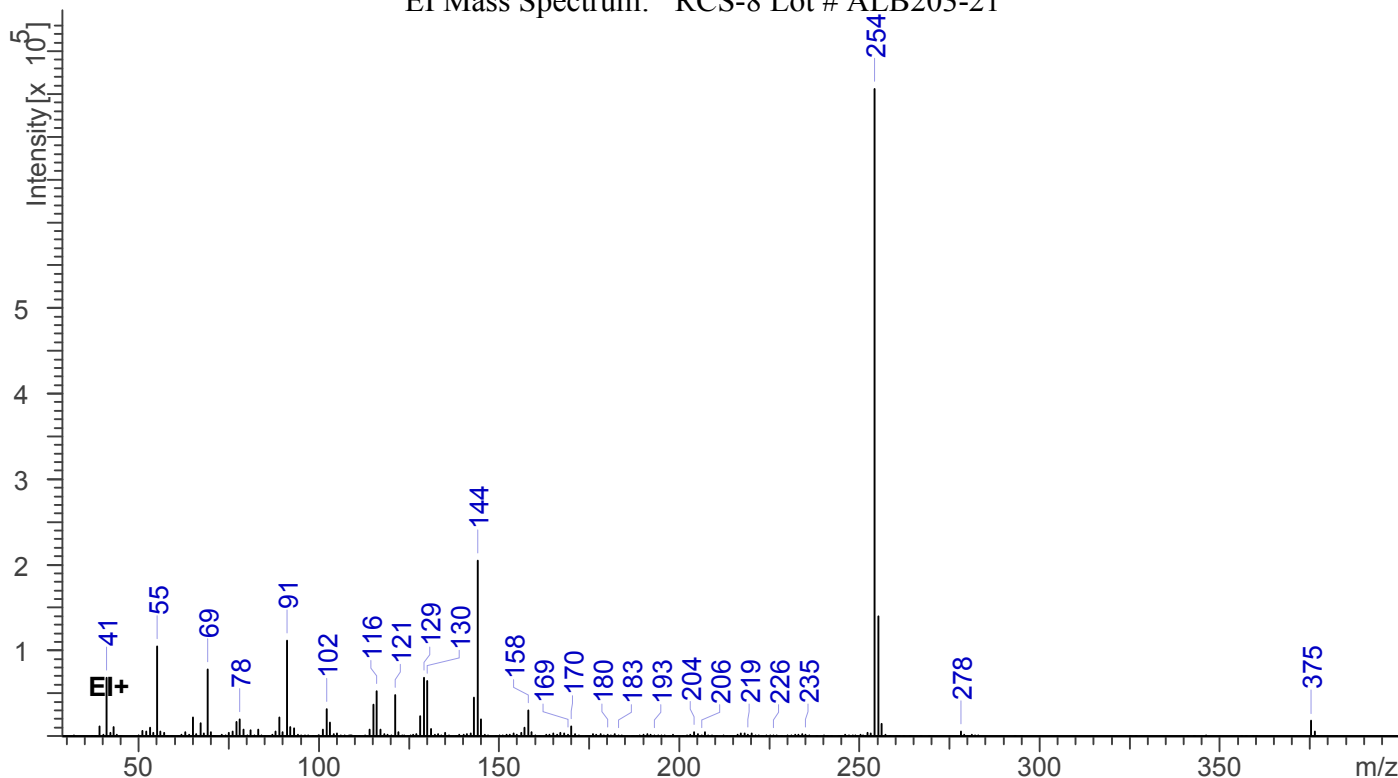
Threshold: 100

Tune file: stune.u

Acquisition mode: scan

Retention Time: 21.906 min

EI Mass Spectrum: RCS-8 Lot # ALB203-21





RCS-8

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3.3 INFRARED SPECTROSCOPY (FTIR)

Instrument: FTIR with diamond ATR attachment (3 bounce)

Scan Parameters:

Number of scans: 32

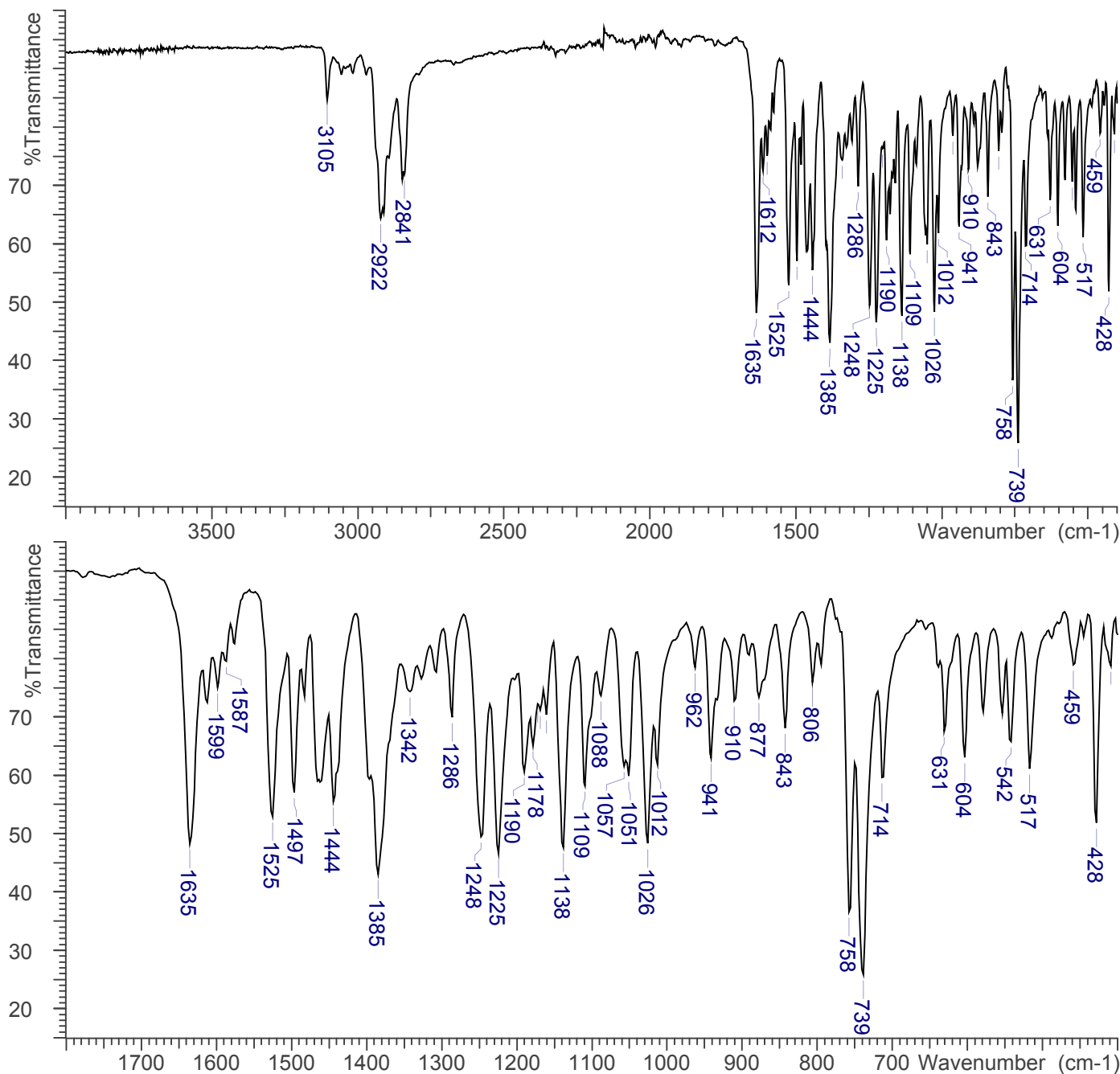
Number of background scans: 32

Resolution: 4 cm⁻¹

Sample gain: 8

Aperture: 150

FTIR ATR (Diamond, 3 Bounce): RCS-8 Lot # ALB203-21





RCS-8

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4. **ADDITIONAL RESOURCES**

[Forendex](#)

[Wikipedia](#)