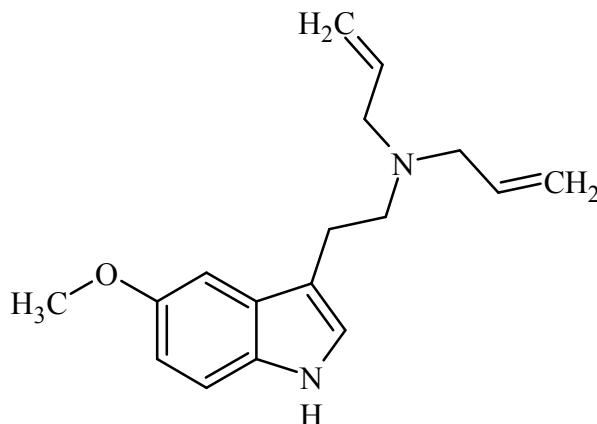




5-Methoxy-DALT

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



1. GENERAL INFORMATION

IUPAC Name: *N*-[2-(5-methoxy-1*H*-indol-3-yl)ethyl]-*N*-(prop-2-en-1-yl)prop-2-en-1-amine

CAS#: 928822-98-4 (Base)

Synonyms: 5-MeO-DALT, 5-Methoxy-*N,N*-Diallyltryptamine, *N,N*-Diallyl-5-methoxytryptamine

Source: DEA Reference Material Collection

Appearance: White powder (Base and HCl)

UV_{max}(nm): 220 (Base)

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₁₇ H ₂₂ N ₂ O	270	105.1
HCl	C ₁₇ H ₂₂ N ₂ O · HCl	306	160.3



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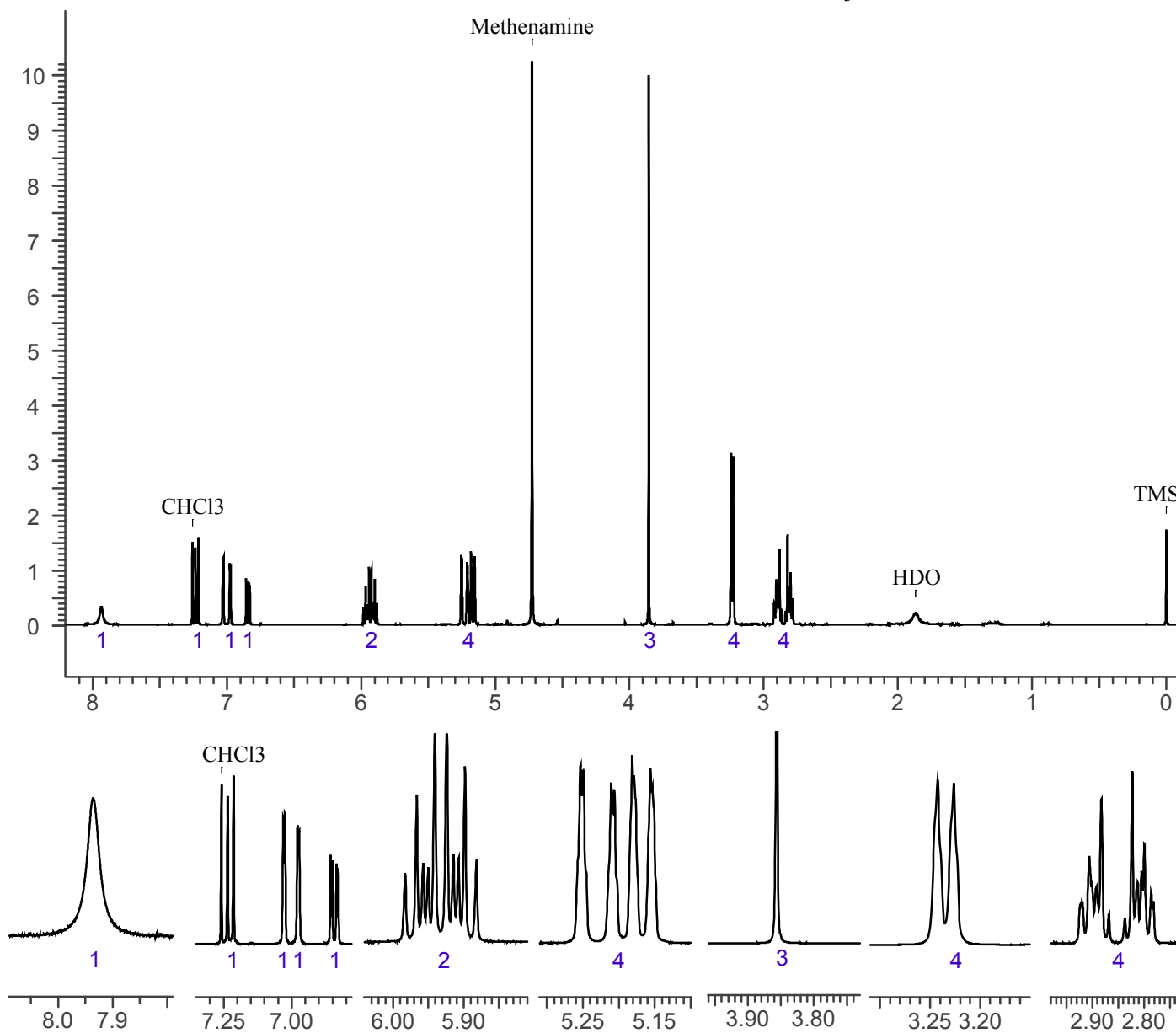
3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: (Base) - Dilute analyte to ~10 mg/mL in CDCl₃ containing TMS for 0 ppm reference and methenamine as quantitative internal standard.

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

¹HNMR, 5-Methoxy-DALT Base, Lot K8H81105, CDCl₃, 400MHz

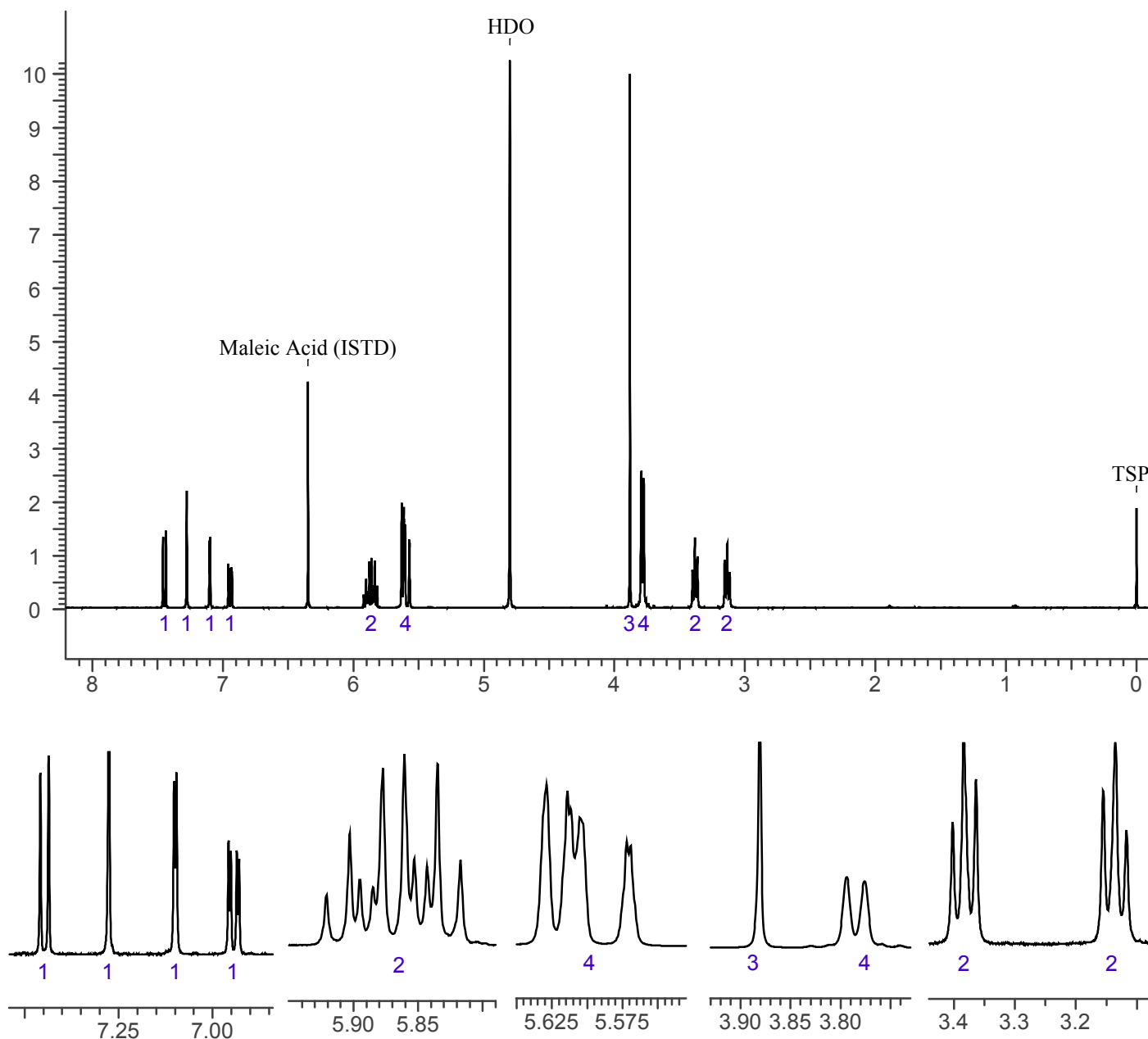


5-Methoxy-DALT

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Sample Preparation: (HCl) Dilute analyte to ~30 mg/mL in D₂O containing TSP for 0 ppm reference and maleic acid as quantitative internal standard.

¹HNMR, 5-Methoxy-DALT HCl, Lot RM-131001-04, D₂O, 400MHz





5-Methoxy-DALT

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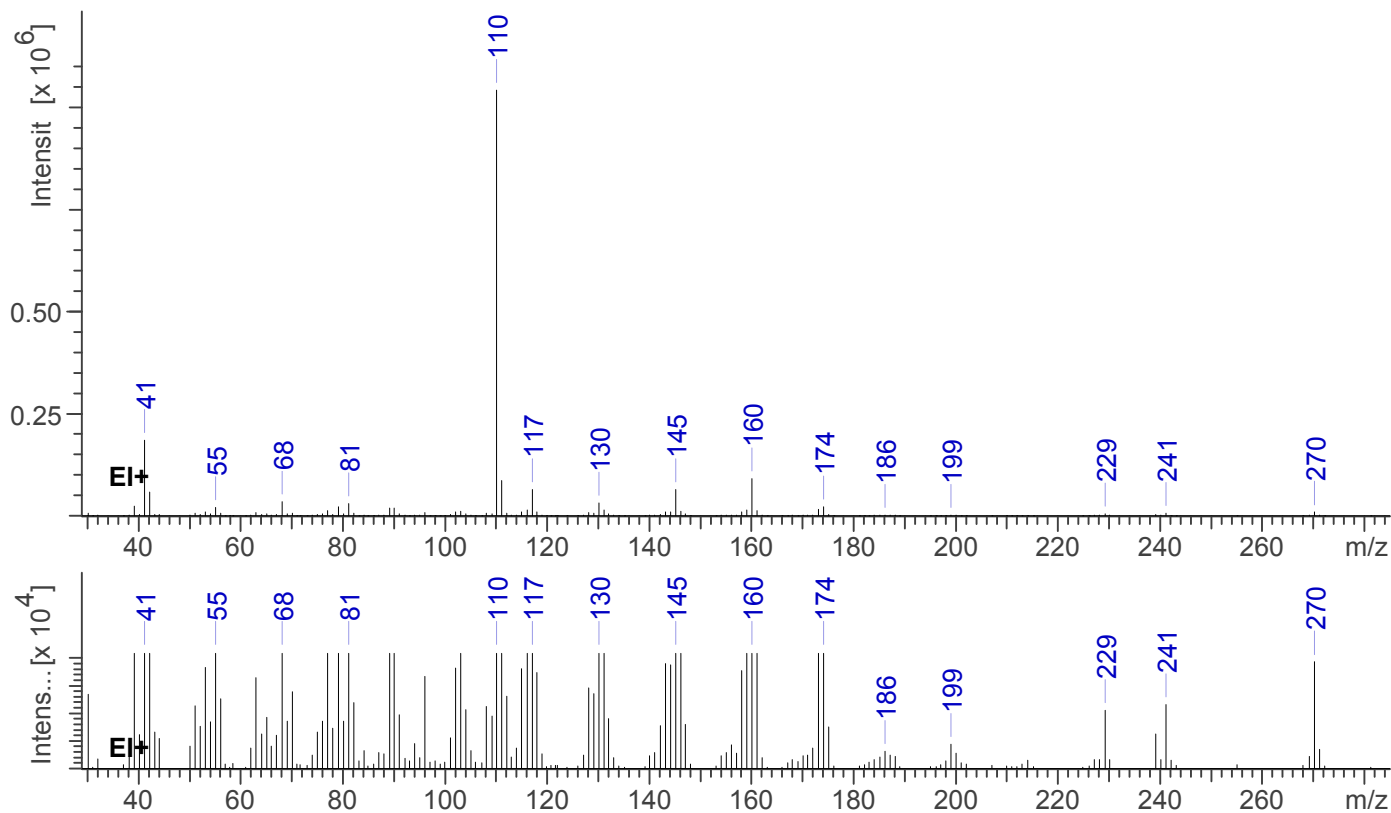
3.2 GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample Preparation: Dilute analyte ~4 mg/mL into chloroform (Base).

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: 14.548 min

EI Mass Spectrum, 5-Methoxy-DALT Base, Lot K8H81105





5-Methoxy-DALT

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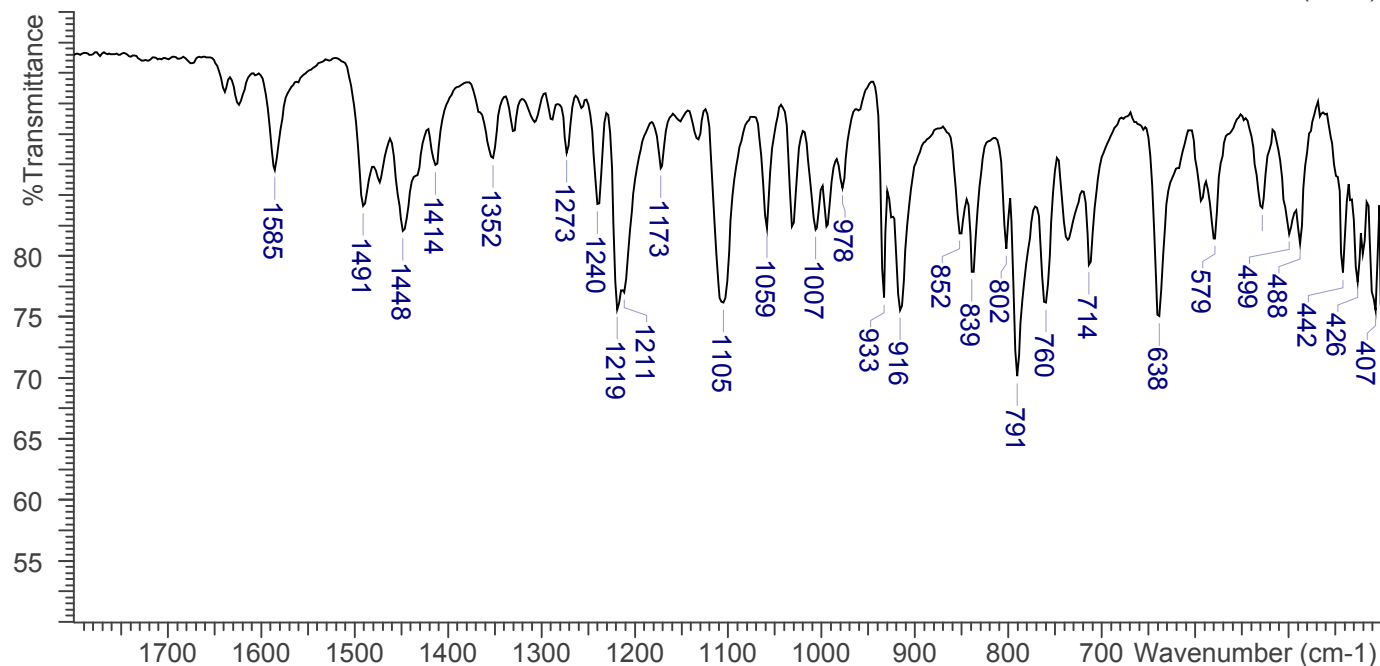
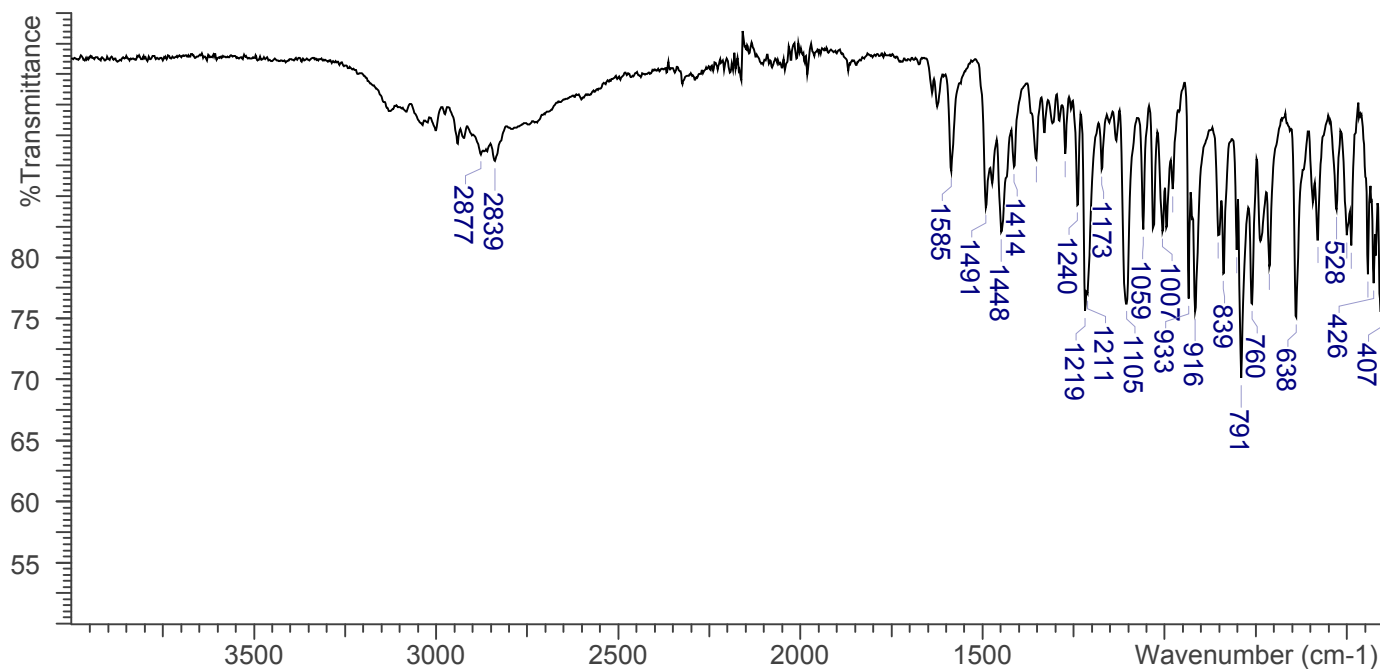


3.3 INFRARED SPECTROSCOPY (FTIR)

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

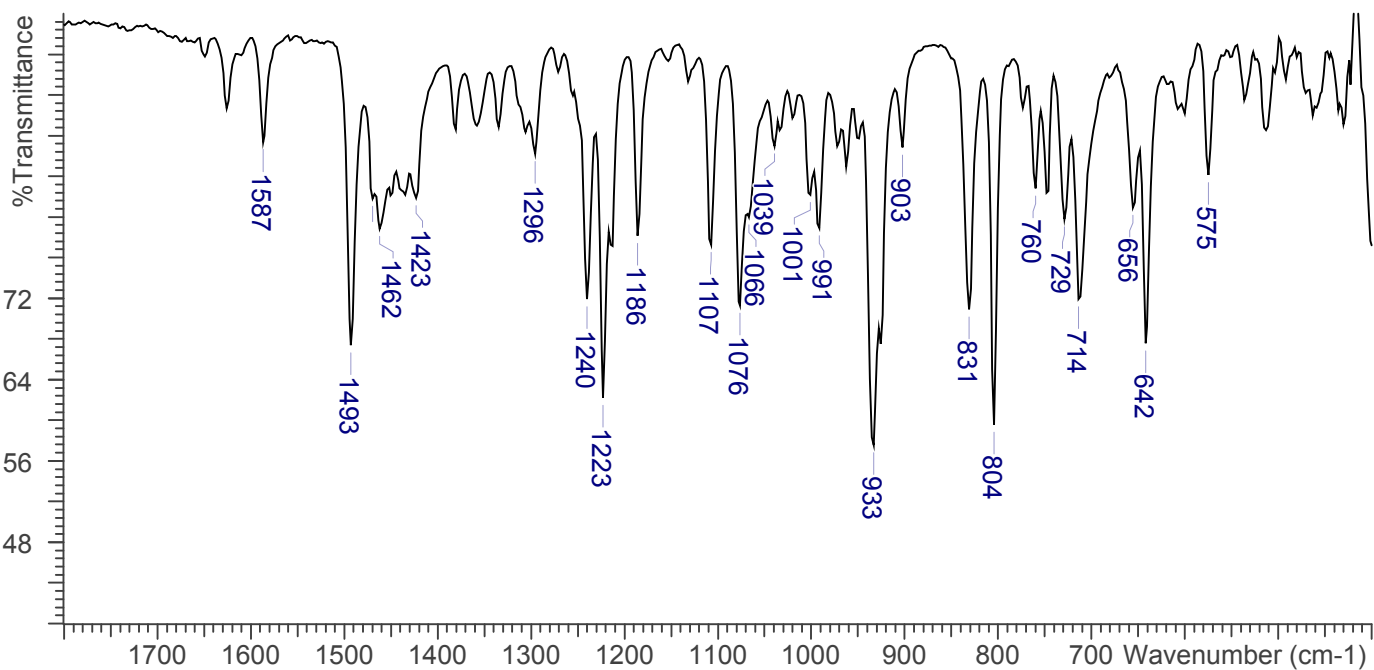
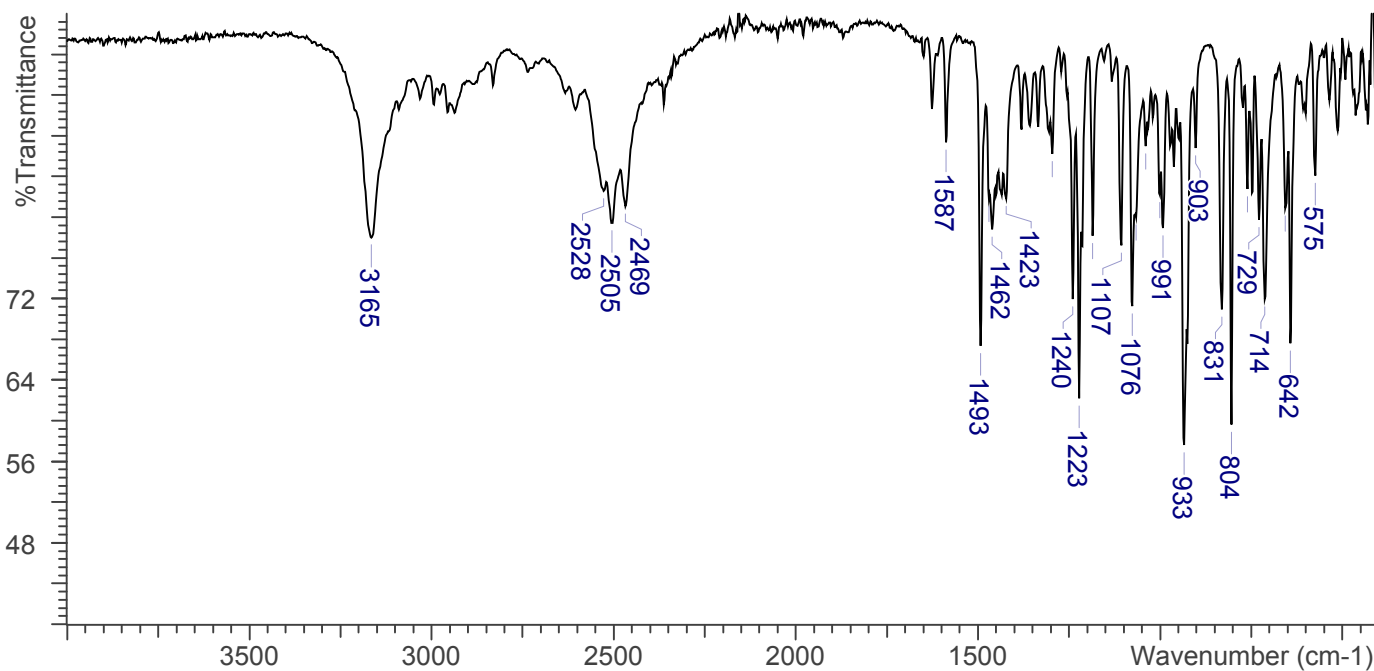
FTIR, ATR (Diamond, 3 Bounce), 5-Methoxy-DALT Base (Lot K8H81105)



5-Methoxy-DALT

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FTIR, ATR (Diamond, 3 Bounce), 5-Methoxy-DALT HCl, Lot RM-131001-04





5-Methoxy-DALT

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



4. ADDITIONAL RESOURCES

[Wikipedia](#)

[Forendex](#)