

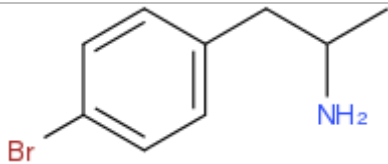
ANALYTICAL REPORT

4-Bromoamphetamine (C₉H₁₂BrN)

4-bromo- α -methyl-benzeneethanamine

Remark – other active cpd. detected: **micro trace of amphetamine**

Sample ID:	1209-15
Sample description:	powder - white
Sample type:	RM-reference material
Comments ¹ :	Chiron AS Lot#14058RESPONSE -purchasing
Date of entry:	8/31/2015

Substance identified-structure ² (base form)	
Systematic name:	4-bromo- α -methyl-benzeneethanamine
Other names:	
Formula (per base form)	C ₉ H ₁₂ BrN
M _w (g/mol)	214,11
Salt form:	HCl
StdInChIKey	SMNXUMMCCOZPPN-UHFFFAOYSA-N
Compound Class	Phenethylamines
Other active cpd. detected	micro trace of amphetamine
Add.info (purity..)	98,80%

¹ This report has been produced with the financial support of the Prevention of and fight against crime Programme of the European Union (grant agreement number JUST/2013/ISEC/DRUGS/AG/6413). The contents of this report are the sole responsibility of the National Forensic Laboratory and can in no way be taken to reflect the views of the European Commission.

² Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d



Supporting information

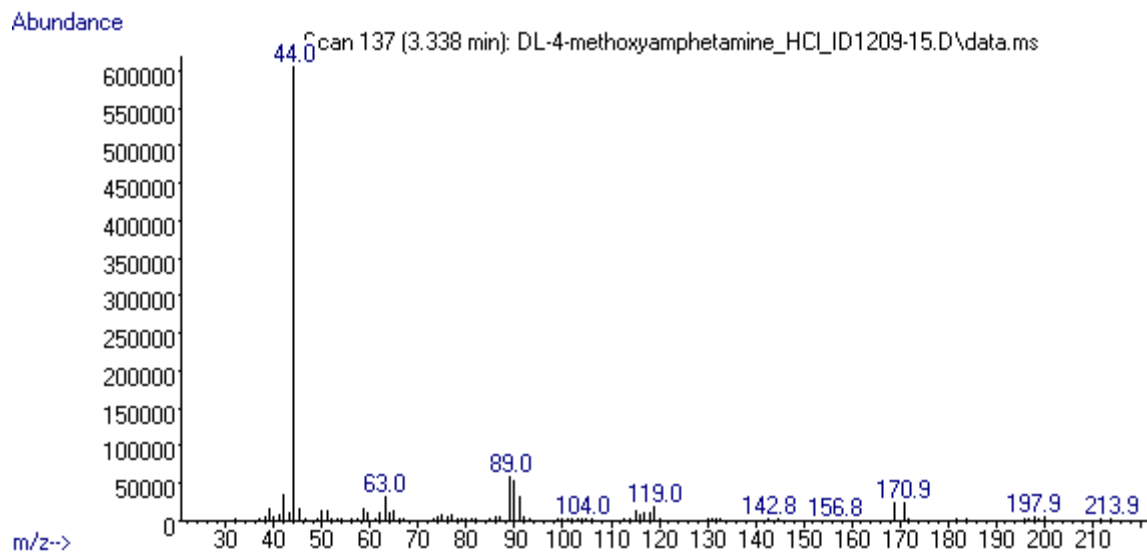
Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 3,34 BP(1): 44; BP(2): 89,BP(3) :90,
FTIR-ATR	+	
GC-IR (condensed phase)	+	spectrum is always for the base form of compound

GC-MS (Agilent): GC-method is RT locked to tetracosane (RT=9.53 min). Injection volume 1 ml and split mode (1:50) for GC-MS instruments and 1:5 for GC-MS-FTIR(condensed phase). Injector temperature: 280 °C. Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm. Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, than heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal. MSD source EI = 70 eV. GC-MS transfer line T= 235°C, source and quadropole temperatures 280°C and 180°C. m/z scan range: from 50 (40) to 550 amu.

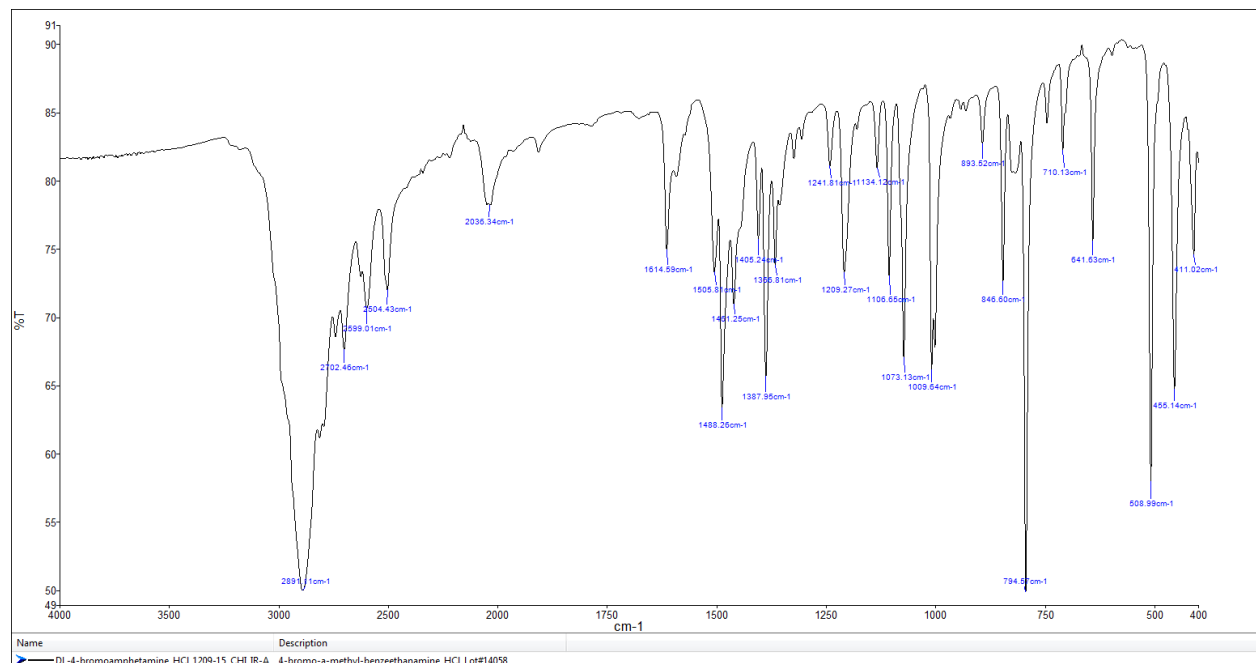
FTIR-ATR (Perkin Elmer): scan range 4000-400 cm⁻¹; resolution 4cm⁻¹

GC-FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm⁻¹

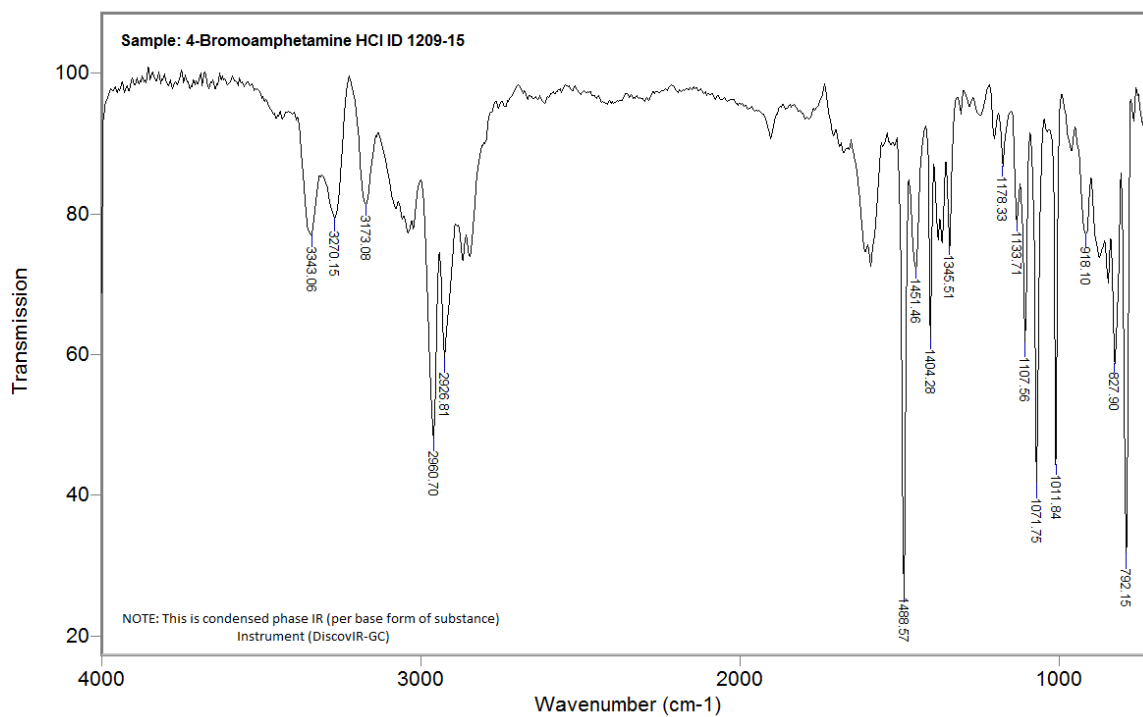
FIGURES OF SPECTRA



MS(EI)



FTIR-ATR direct measurement



GC-FTIR condensed phase