



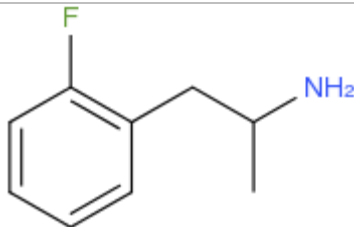
## ANALYTICAL REPORT

### 2-Fluoroamphetamine (C<sub>9</sub>H<sub>12</sub>FN)

#### 1-(2-Fluorophenyl)propan-2-amine

Remark – other NPS detected: **none**

Sample ID:	1103-14A
Sample description:	powder - white
Sample type:	RM-reference material
Comments:	Cayman Lot#0452507
Date of entry:	9/22/2014

Substance identified-structure <sup>i</sup> (base form)	
Systematic name	1-(2-Fluorophenyl)propan-2-amine
Other names	2FA
Formula (per base form)	C <sub>9</sub> H <sub>12</sub> FN
M <sub>w</sub> (g/mol)	153,2
Salt form	HCl
Smiles	FC1=C(C=CC=C1)CC(C)N
Compound Class	Phenethylamines
Other NPS detected	none
Add.info (purity..)	≥98%

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.

## Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 2,28 BP(1): 44; BP(2): 109,BP(3) :83,
FTIR-ATR	+	
FTIR (condensed phase) always as base form		pending

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 µm. 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, then 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<sup>-1</sup>; resolution 4cm<sup>-1</sup>

FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm<sup>-1</sup>

## Abundance

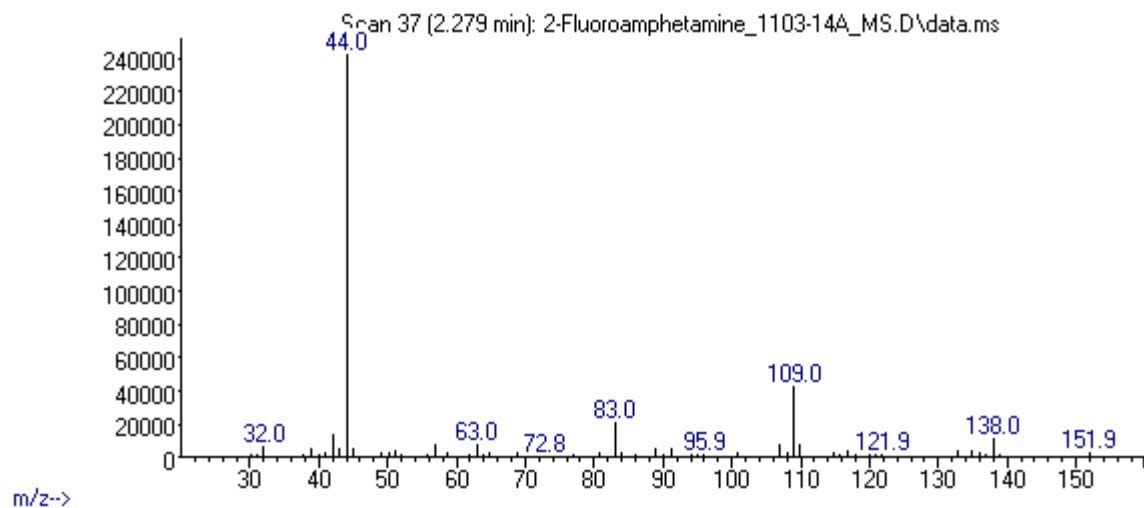
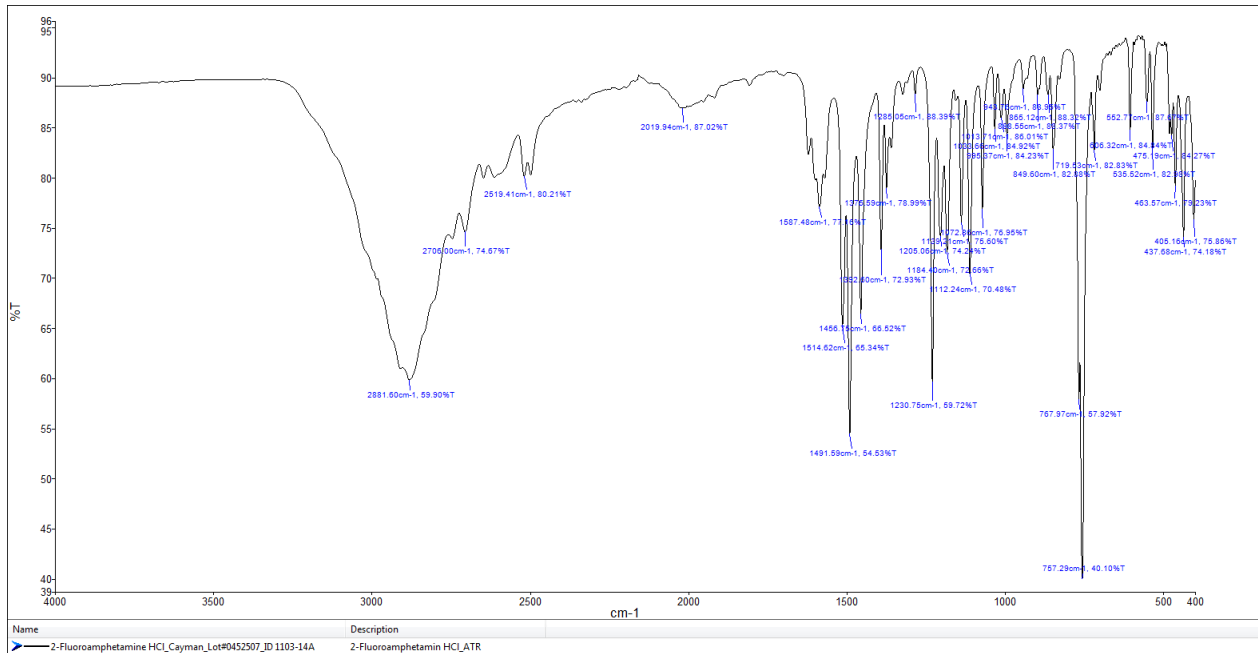


Figure 1: GC-MS spectrum



**Figure 2: FTIR ATR**

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