Analytical report 21/12/2022

Operator: CAB

Analysis performed on 12/12/2022

Energy Control sample code: 45411

Sample type: methamphetamine

Analytical method

Sample preparation: solution: 9 mg in 10 ml (methanol), dilution 20 ul sample + 980 ul movil fase.

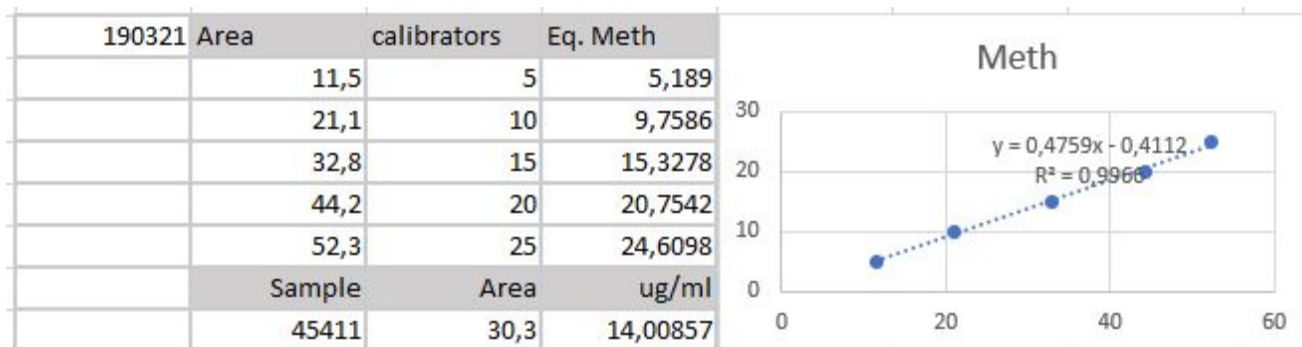Analytical instrument: HPLC-UV (High performance liquid chromatograph equipped with variable wave)

Method HPLC: column (Gemini, 3μm NX-C18, 100mm x 2mm), detector (UV, 258 nm), flow (0.4 ml/min), injection volume (10 μl), mobile phase (A: H2O, 0,1 % formic acid, B: Meoh, 0,1 % formic acid, B)

Results:

Compound	Peak time (RT) min.	Peak Area	%
Methamphetamine	3.3	30.3	77

The μg/ml are a function of the peak area. This function is based on an equation from the regression line formed between the areas of the calibrators and the concentration in ug / ml of each calibrator. The calibrators come from pure patterns of each substance. 5 calibrators have been used for each substance.

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Calibration curve:

190321	Area	calibrators	Eq. Meth
	11,5	5	5,189
	21,1	10	9,7586
	32,8	15	15,3278
	44,2	20	20,7542
	52,3	25	24,6098
	Sample	Area	ug/ml
	45411	30,3	14,00857

Meth

y = 0,4759x - 0,4112
R² = 0,9966

Chromatogram graph:

Sample Name: METH45411

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Acq. Operator    : IFE                     Seq. Line :   51
Acq. Instrument : Instrument 1            Location : Vial 55
                                                Inj :    1
                                         Inj Volume : 10 µl

Acq. Method      : D:\DATA\MVV\190312-VARIOS

Analysis Method : D:\DATA\MVV\190312-VARIOS

Method Info      : anfeta-meth- UV
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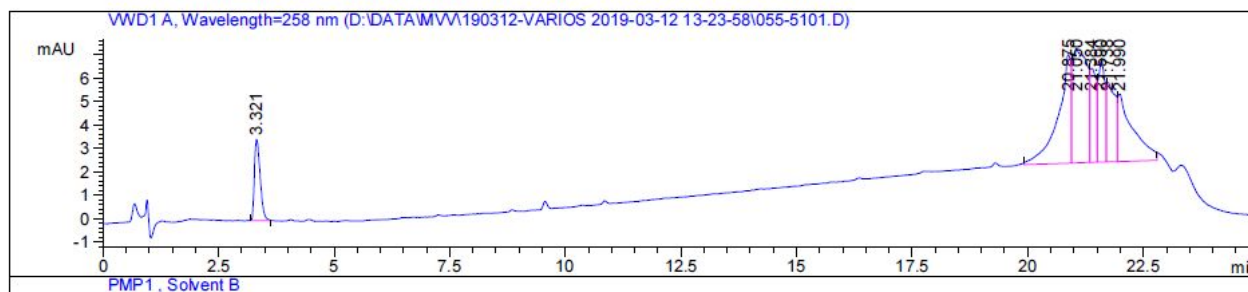

VWD1 A, Wavelength=258 nm (D:\DATA\MVV\190312-VARIOS 2019-03-12 13-23-58\055-5101.D)

PMP1 , Solvent B

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Data File D:\DATA\MVV\190312-VARIOS
Sample Name: METH45411

Peak RetTime Type  Width     Area      Height     Area
 #    [min]        [min]  mAU   *s    [mAU   ]      %
---|-------|----|-------|----------|----------|--------|
  1   3.321 BB    0.1370   30.31603   3.46697    7.2263
  2  20.875 BV    0.2503   91.35950   4.63519   21.7768
  3  21.050 VV    0.2722  106.03808   4.88499   25.2757
  4  21.384 VV    0.1320   37.42967   4.01878    8.9219
  5  21.590 VV    0.1419   43.88554   4.31554   10.4607
  6  21.738 VV    0.1716   43.82460   3.38138   10.4462
  7  21.990 VB    0.2923   66.67266   2.87631   15.8924

Totals :                  419.52607  27.57915


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                  *** End of Report ***
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