

Supporting Information File

for

Synthesis, Antitumor Activity and Docking Analysis of New

Pyrido[3',2':4,5]furo(thieno)[3,2-*d*]pyrimidin-8-amines

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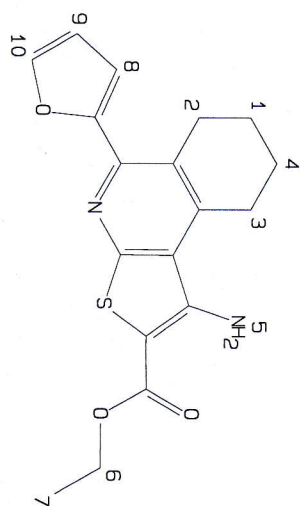
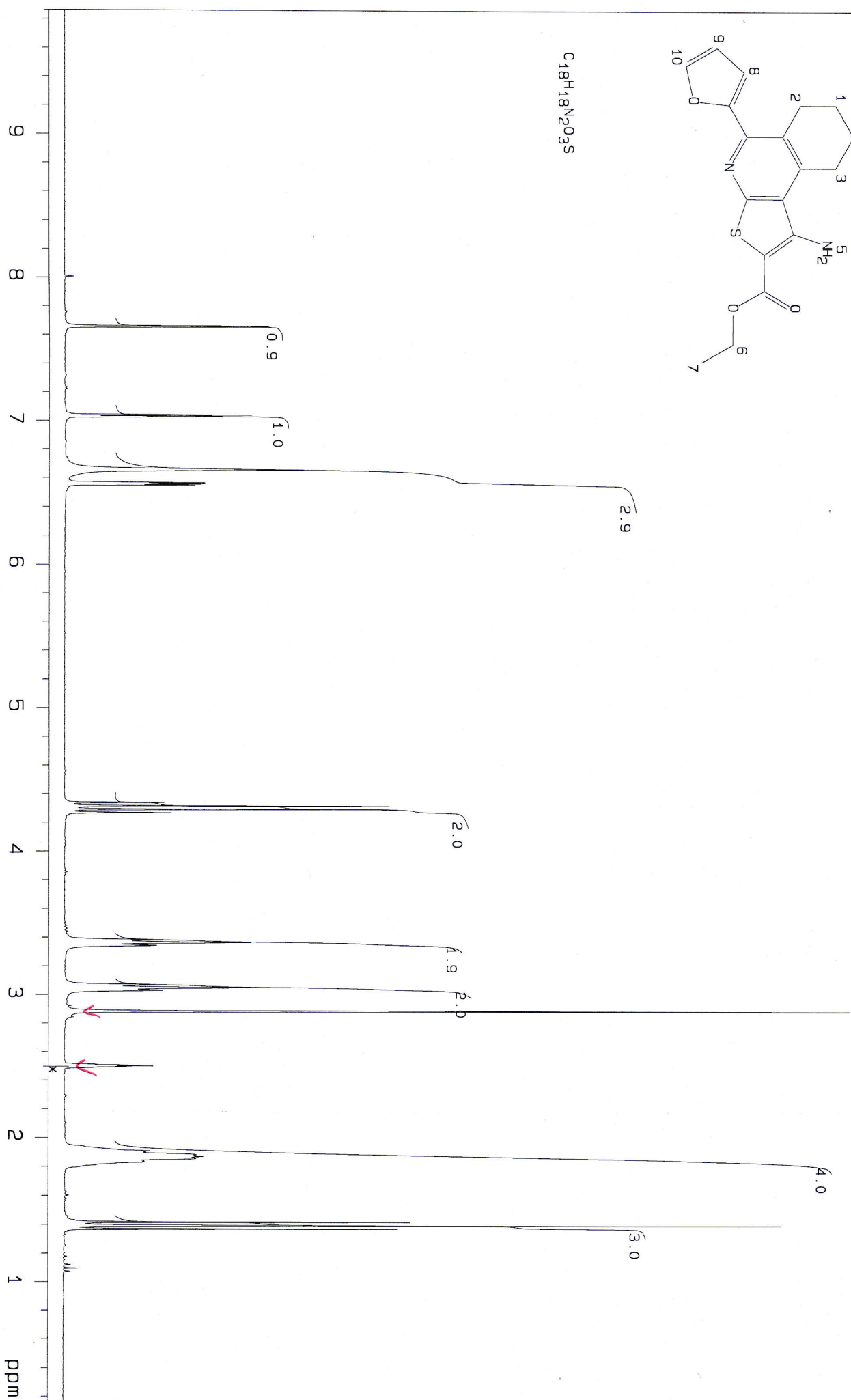
Copies of ¹H and ¹³C NMR spectra for all new synthesized compounds

2

HE-393-2

SAMV_19 he-393-2

Aug 2 2019

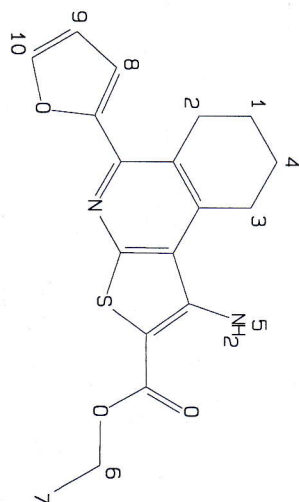
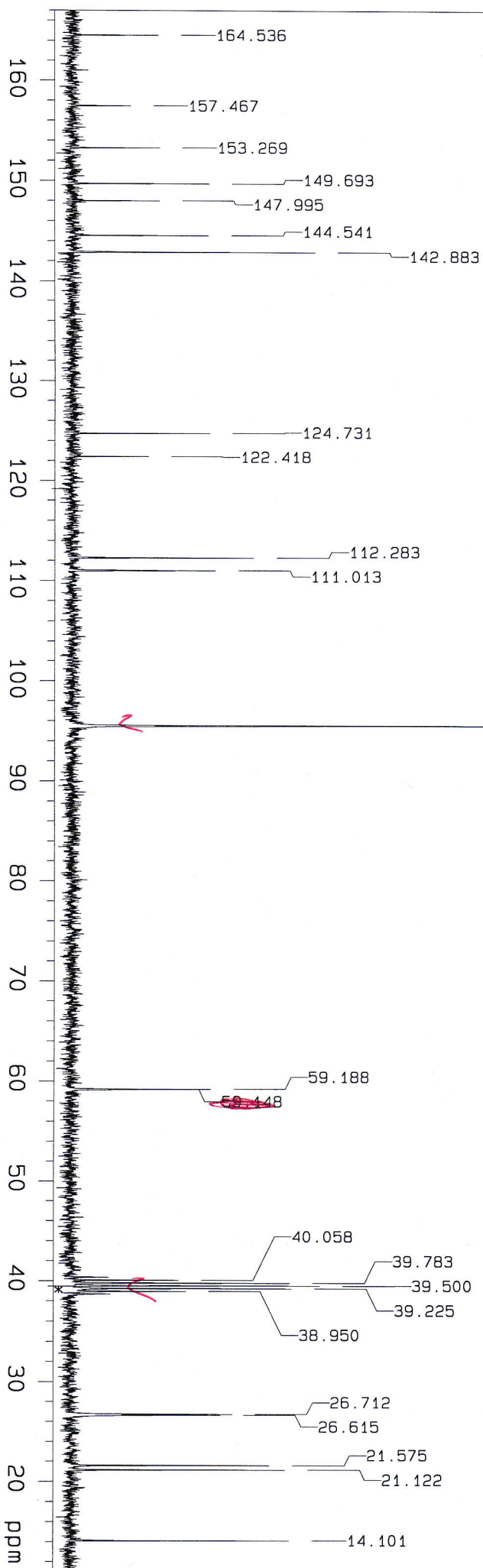
 $C_{18}H_{18}N_2O_3S$ 

2

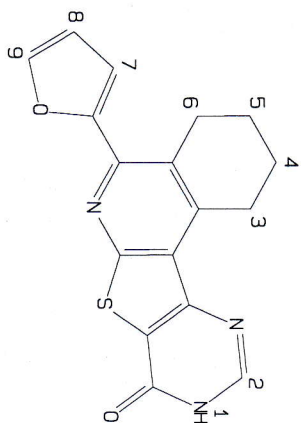
HE-393-2

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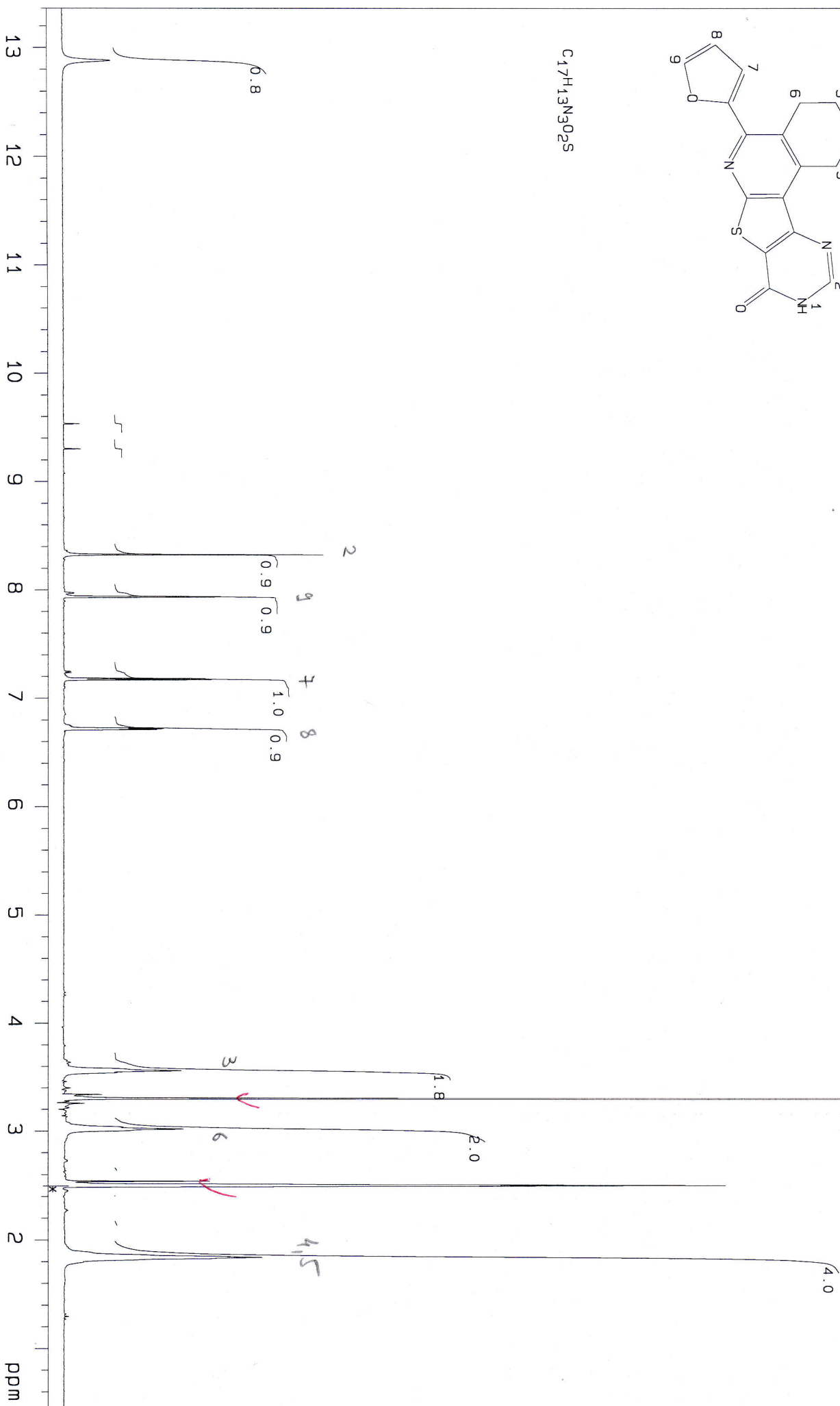
Aug 2 2019

C₁₈H₁₈N₂O₃S

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C₁₇H₁₃N₃O₂S



4

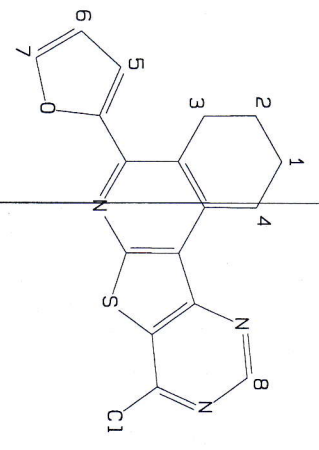
Alfred

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-198

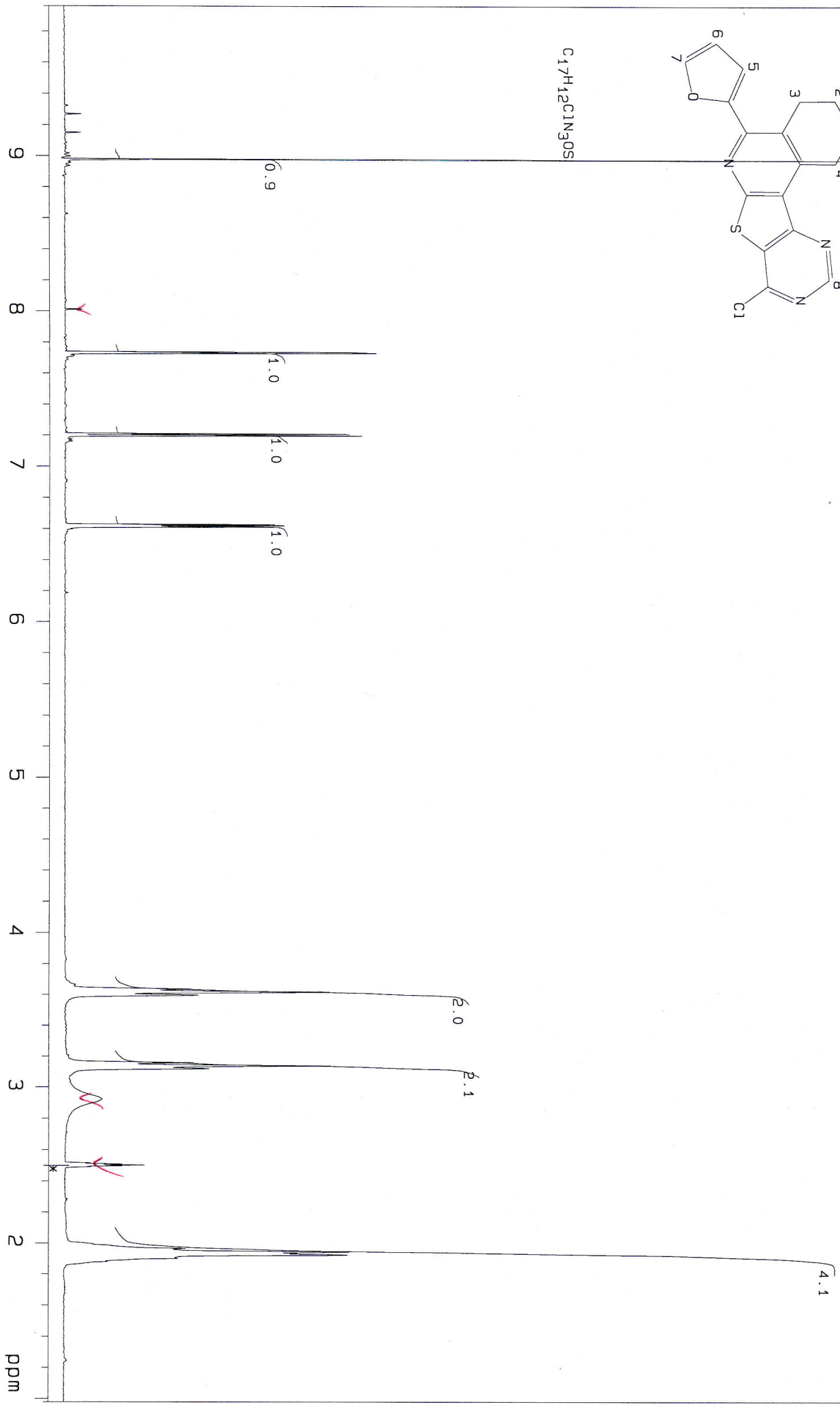
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 SAMV_19 ae99-198

Jul 17 2019

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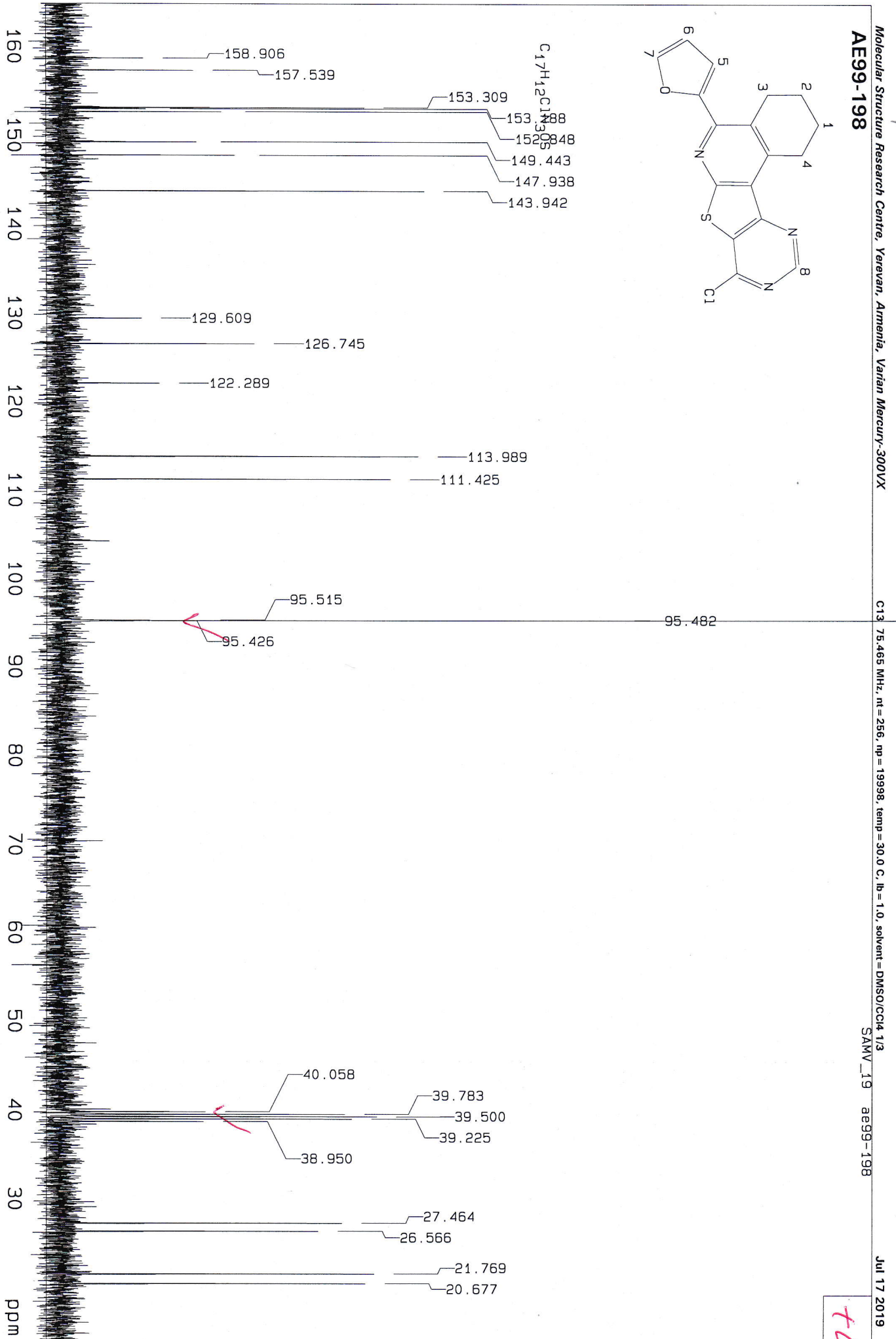
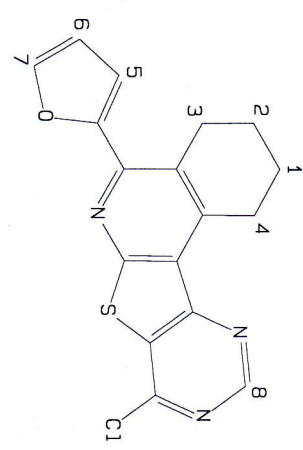


C17H12C1N3OS



4

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-198



SAMV_19 ae99-198

Jul 17 2019

[Handwritten signature]

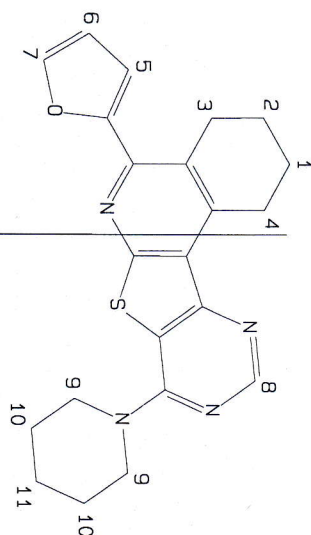
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-200

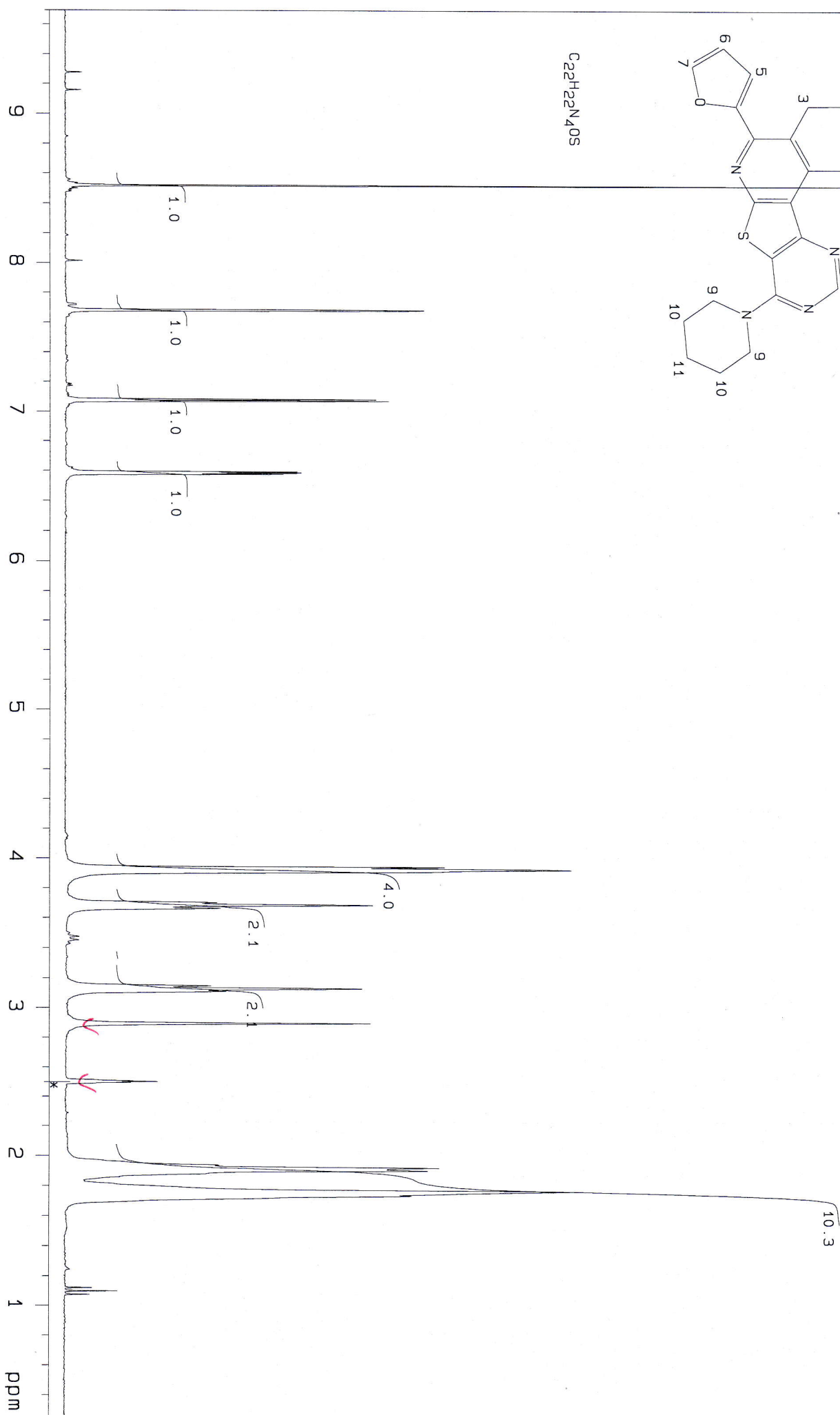
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SAMV_19 ae99-200

Jul 18 2019



$C_{22}H_{22}N_4OS$



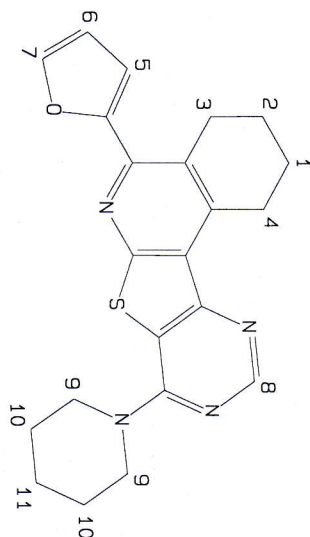
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-200

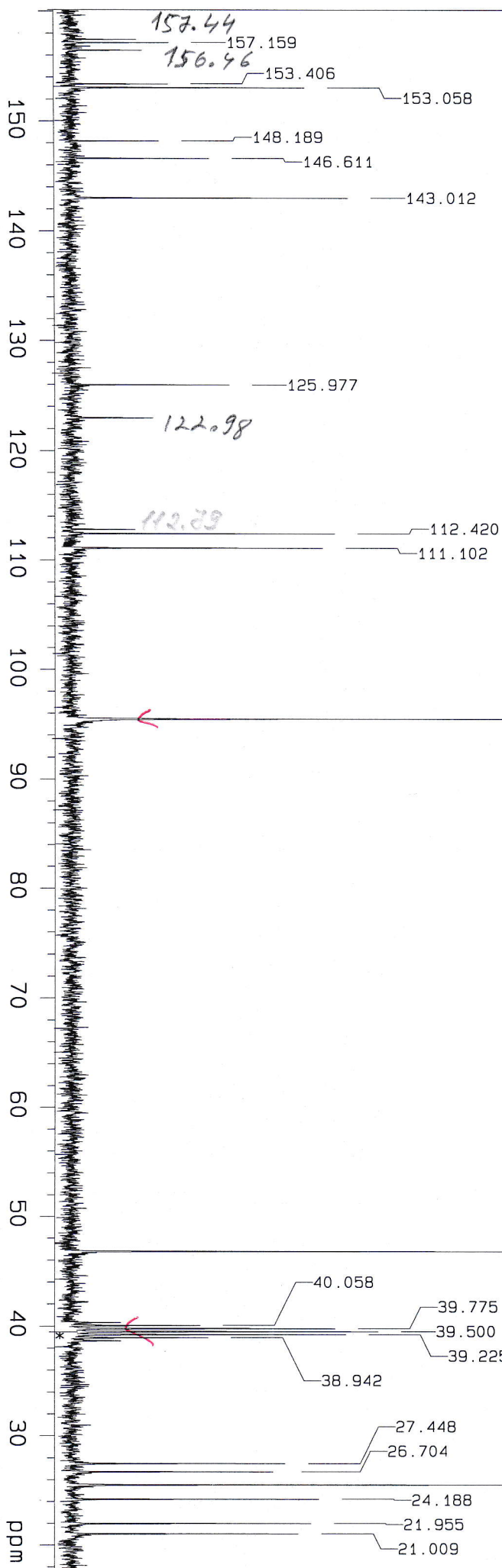
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SAMV_19 ae99-200

Jul 18 2019



C₂₂H₂₂N₄O₅



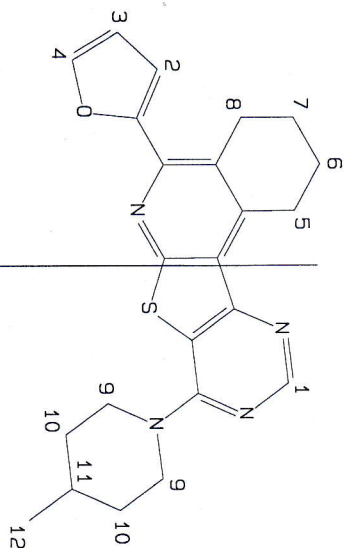
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-215

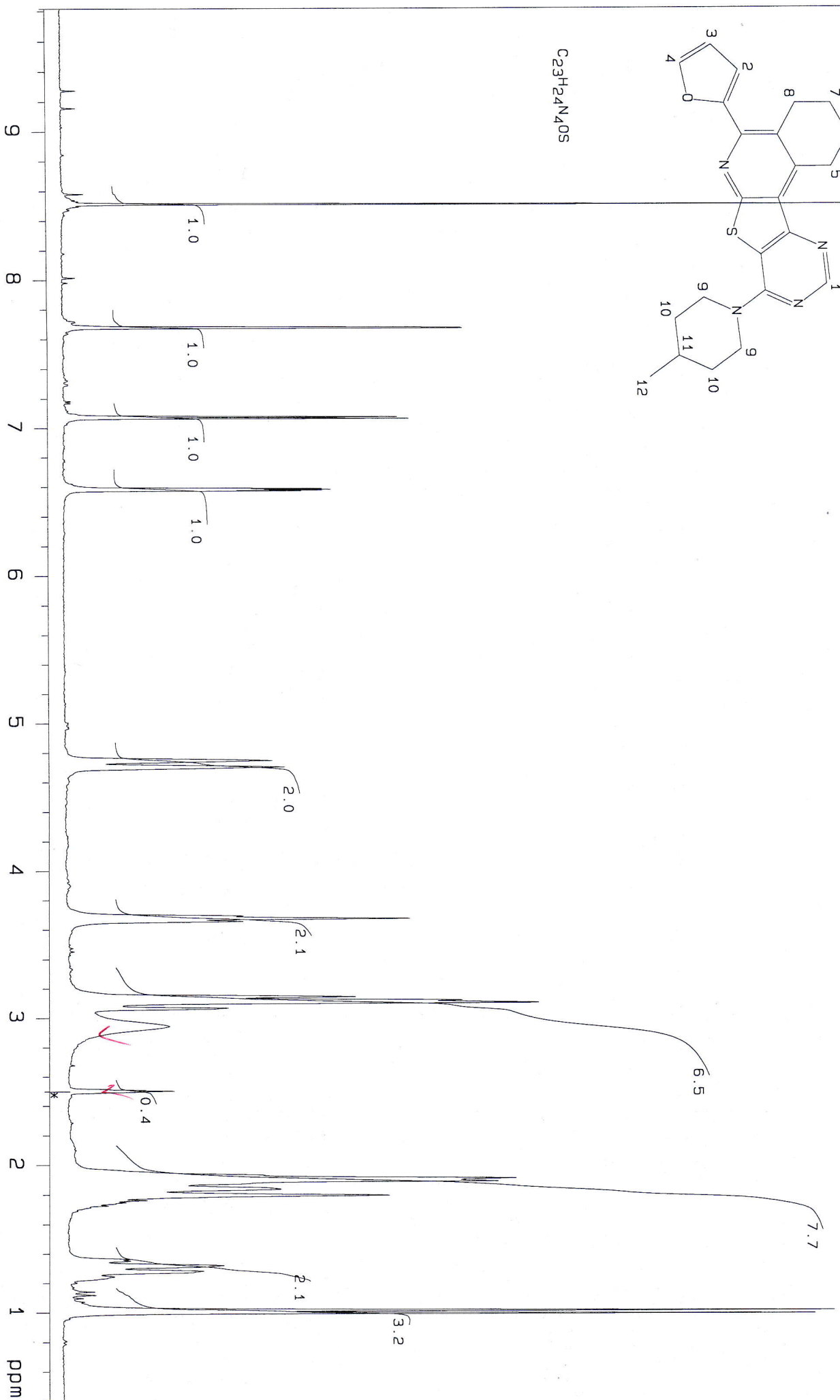
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NOCI_19 ae99-215

Jul 4 2019



C₂₃H₂₄N₄O₅



Signature

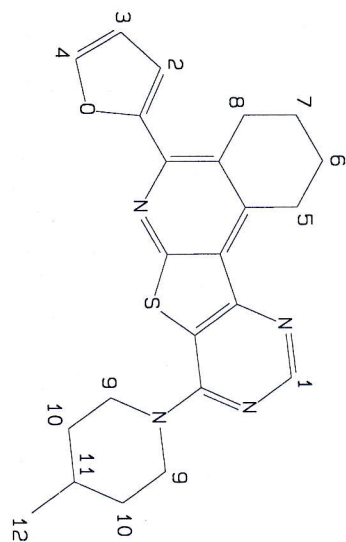
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-215

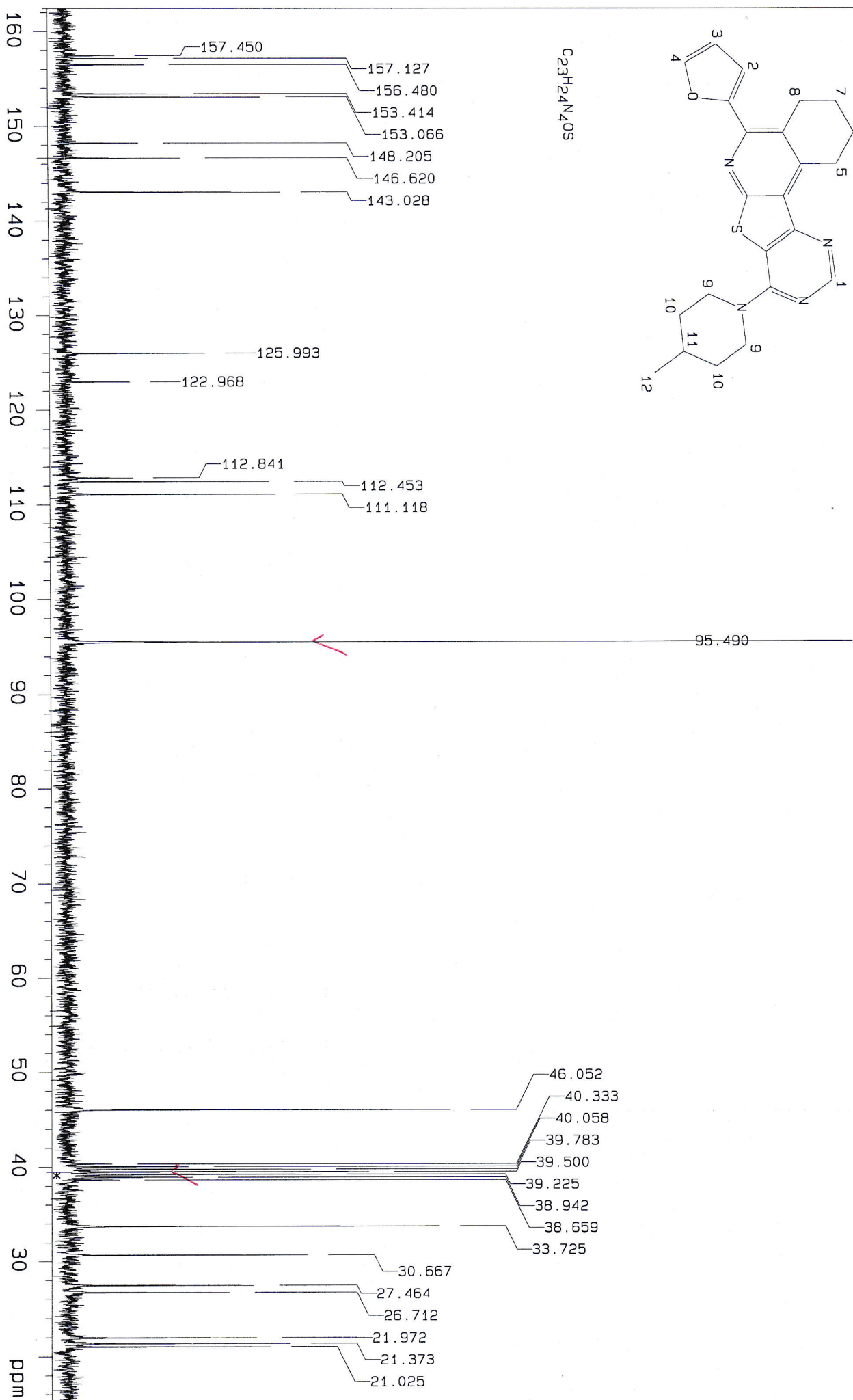
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NOCT_19 ae99-215

Jul 4 2019



C₂₃H₂₄N₄O₅

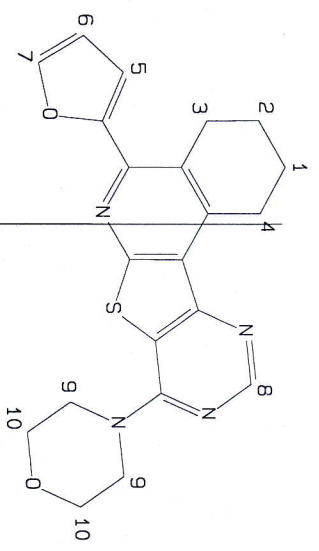


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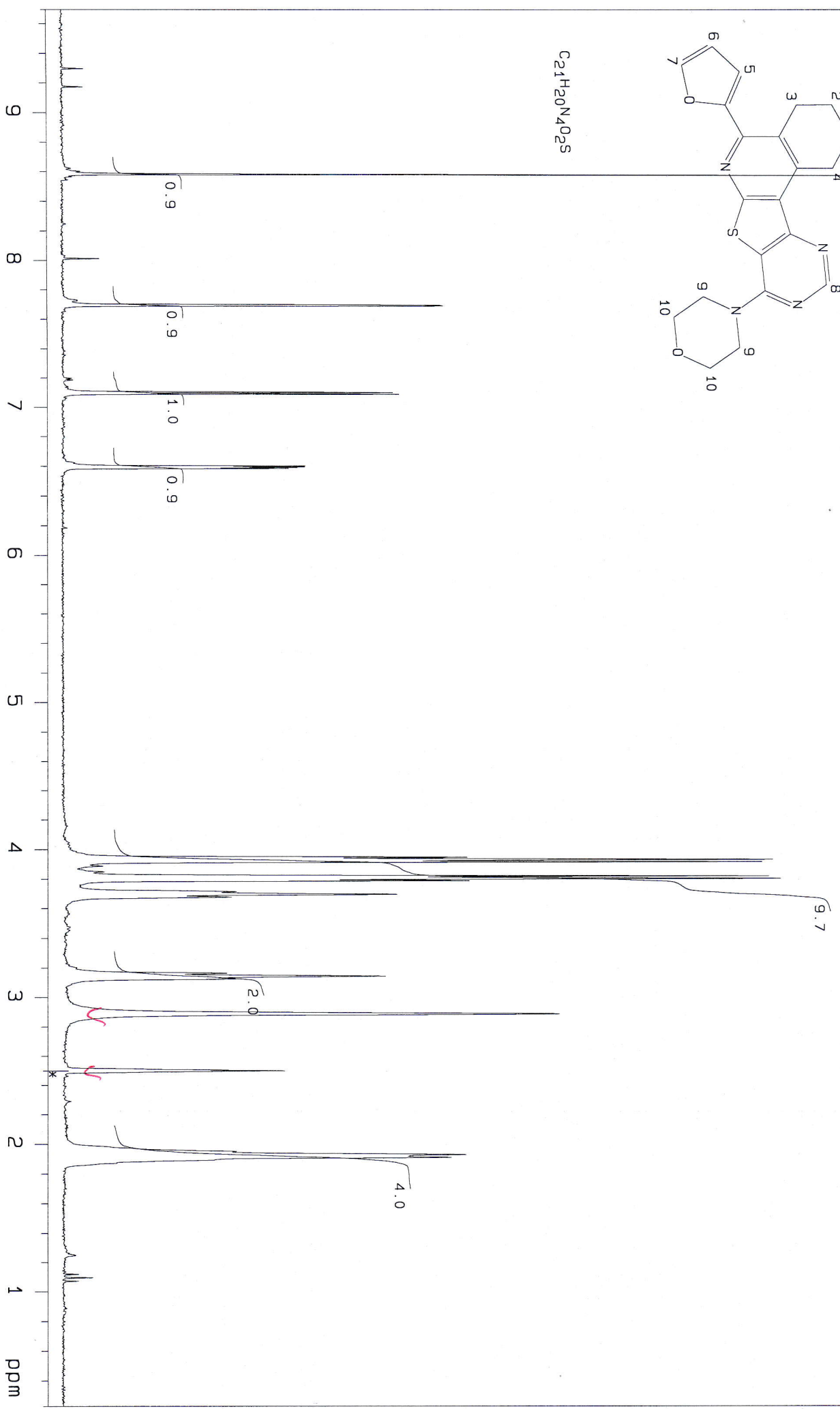
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-199

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SAMV_19 ae99-199

Jul 18 2019



C₂₁H₂₀N₄O₂S



+ *[Signature]*

5c

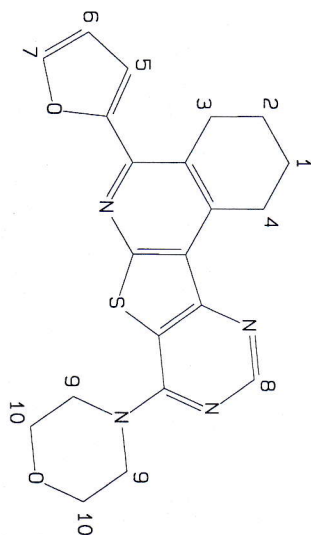
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX

AE99-199

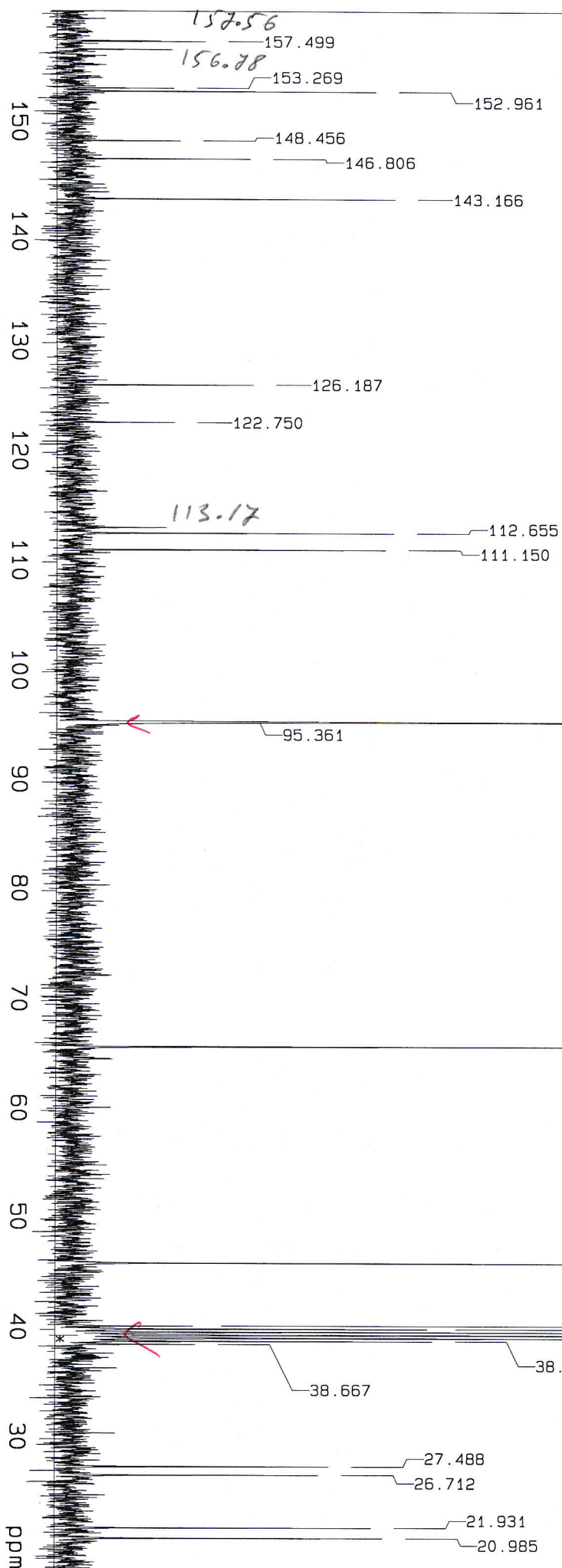
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SAWV_19 ae99-199

Jul 18 2019



C₂₁H₂₀N₄O₂S



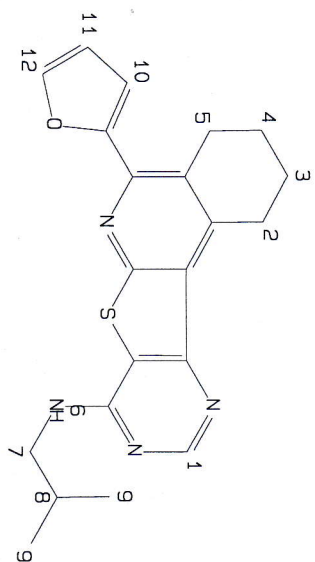
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5d

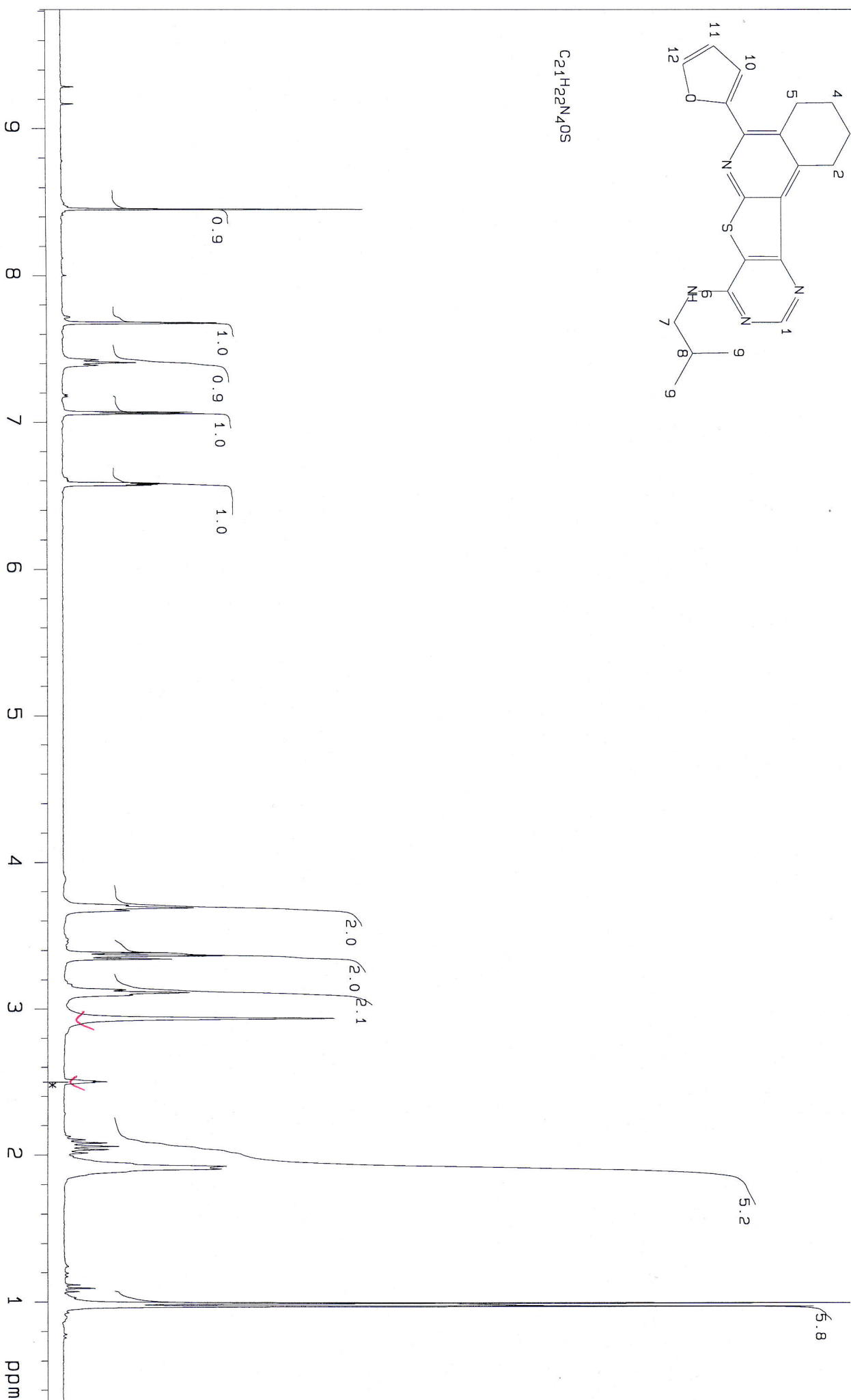
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-205

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SAMV_19 ae99-205

Jul 16 2019



$C_{21}H_{22}N_4O_5$



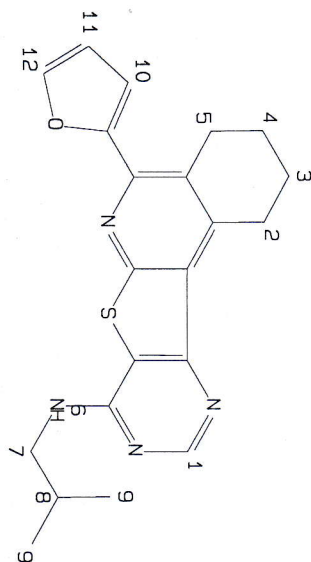
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-205

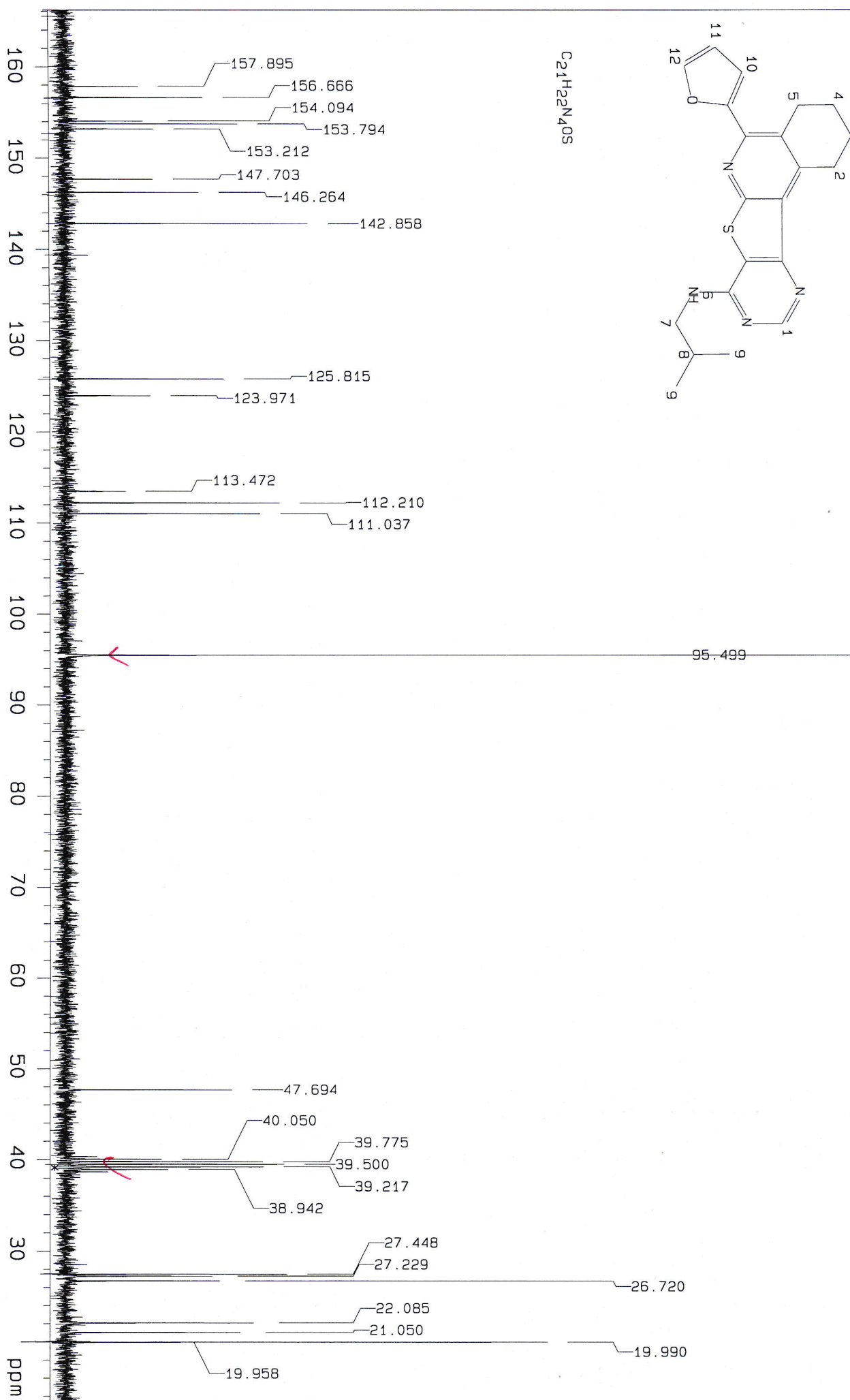
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SAMV_19 ae99-205

Jul 16 2019



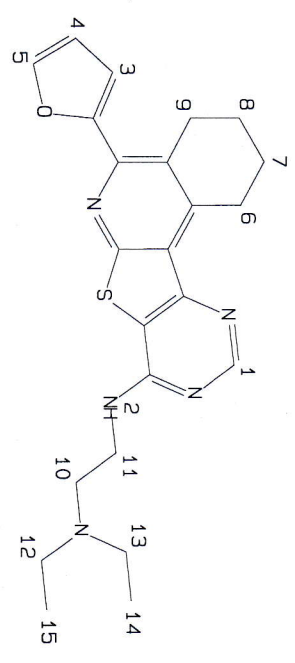
C₂₁H₂₂N₄O₅



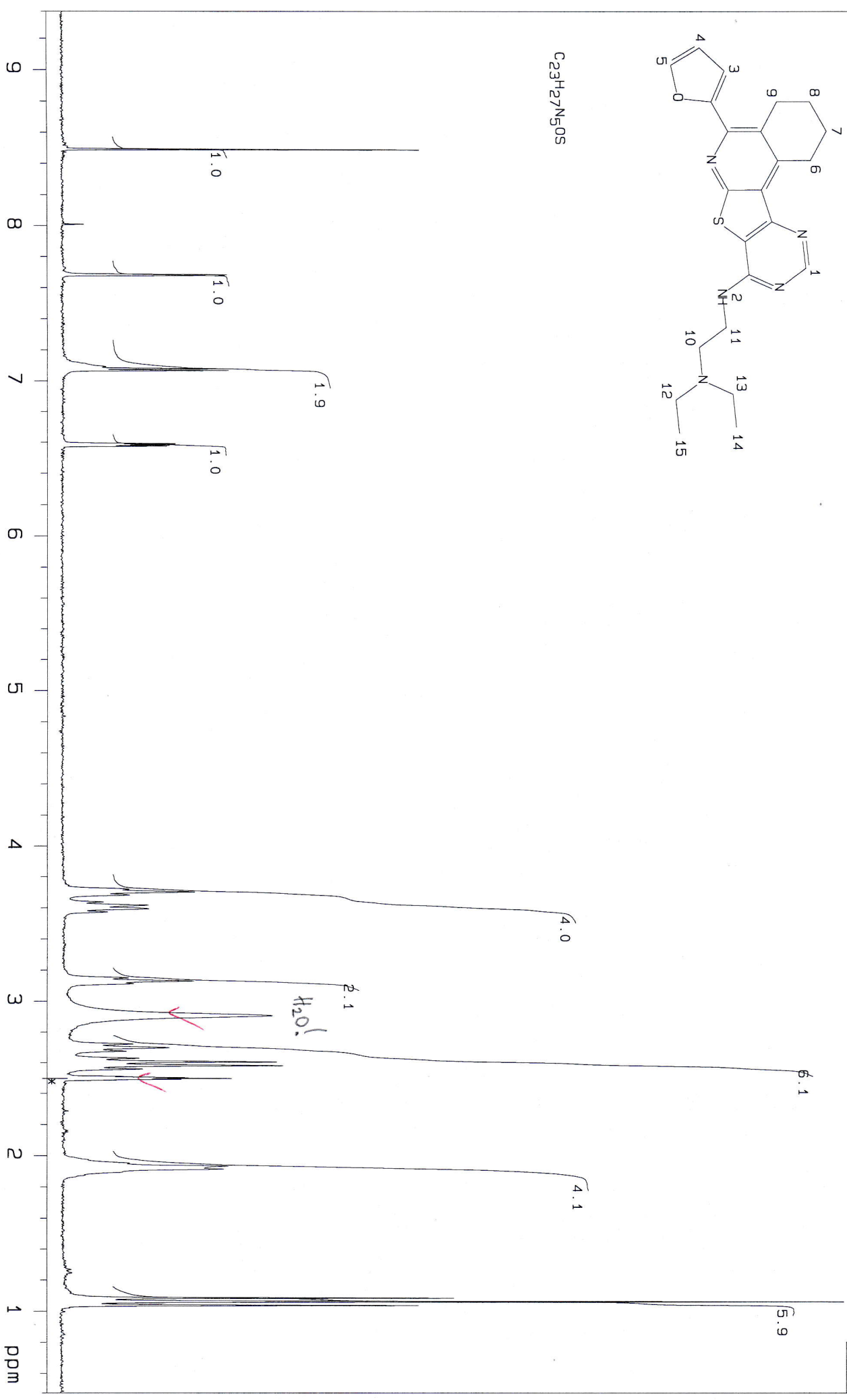
Handwritten signature and date: 16/07/2019

5e

Shirvan



C₂₃H₂₇N₅O₅



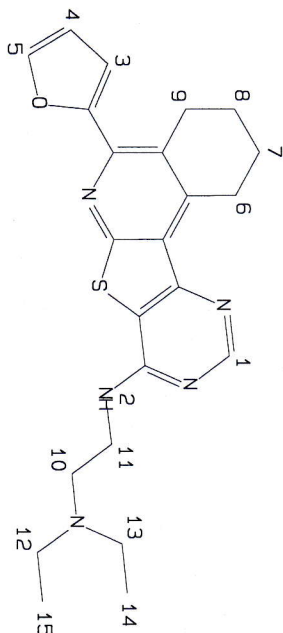
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-212

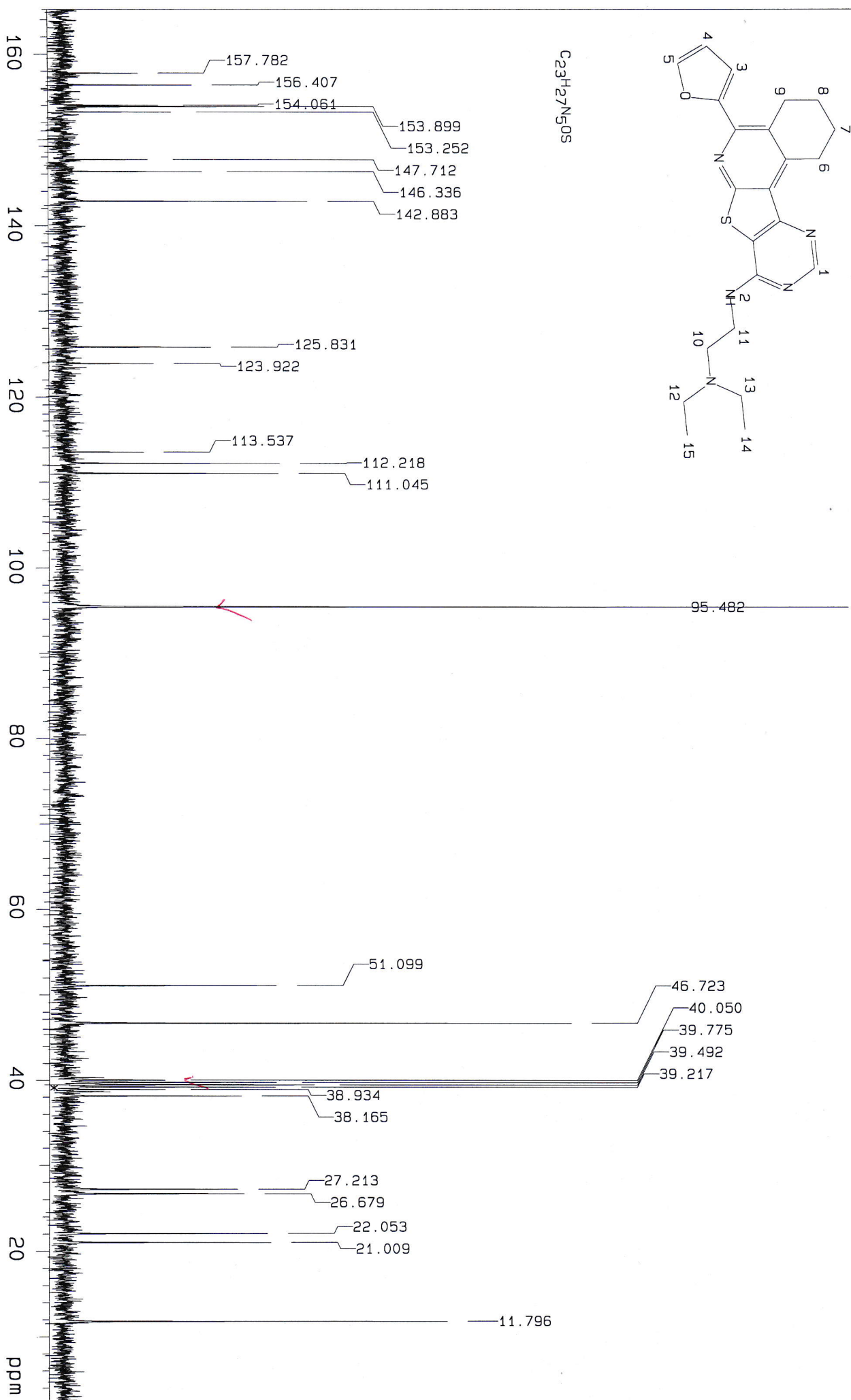
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SAMV_19 ae99-212

Jul 9 2019



C₂₃H₂₇N₅O₅



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58

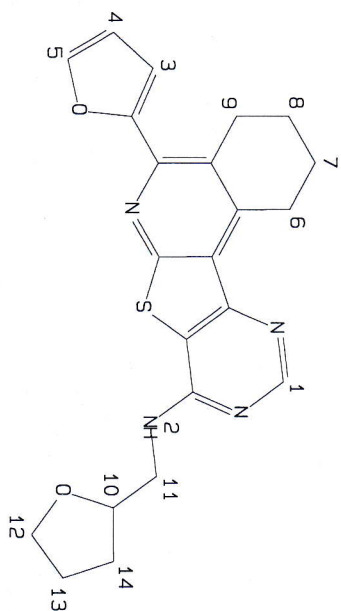
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE99-210-2

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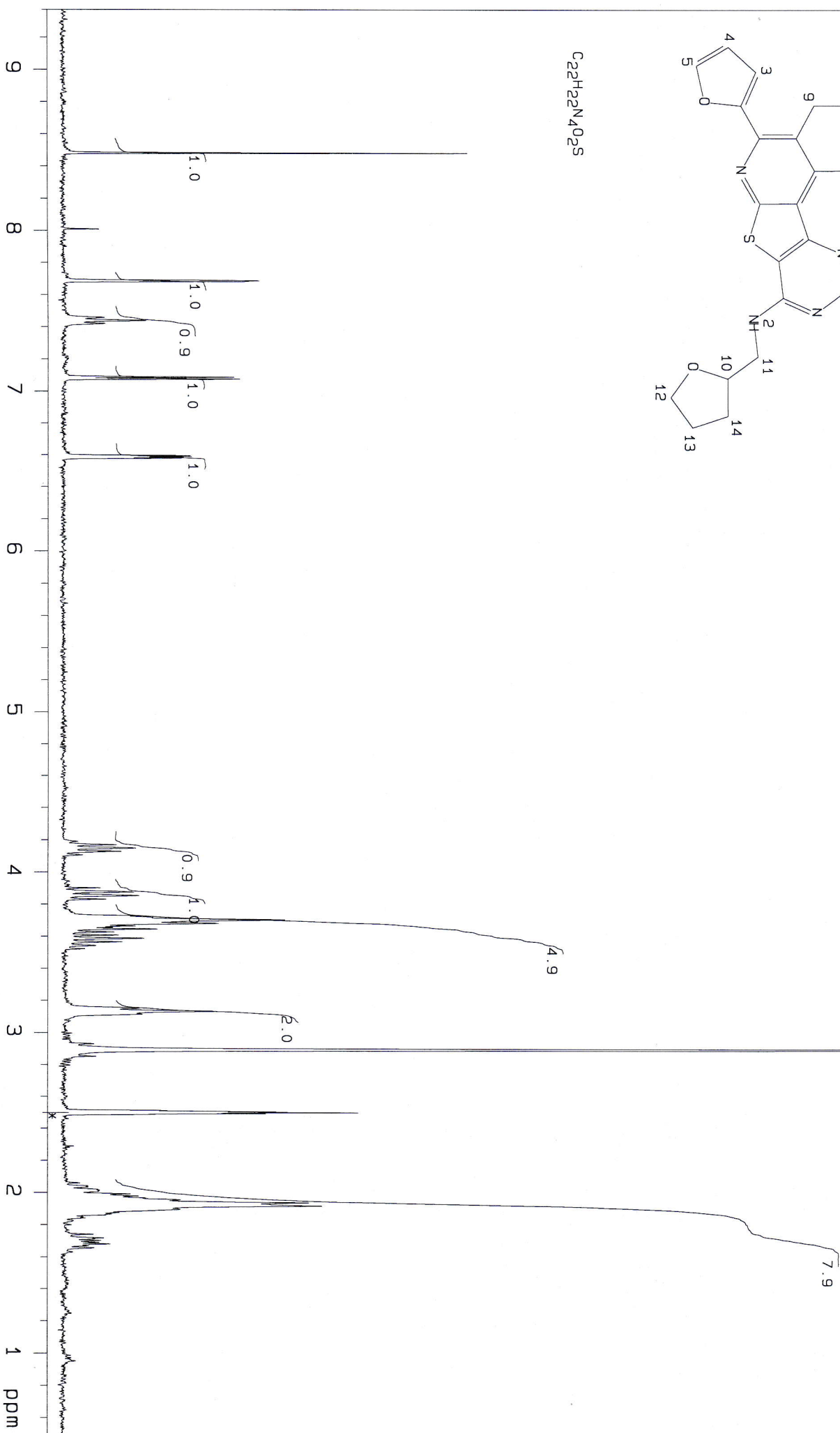
NOCI_19 ae99-210-2

Jul 9 2019

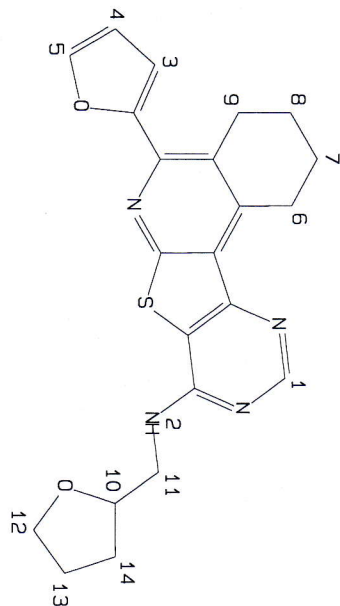
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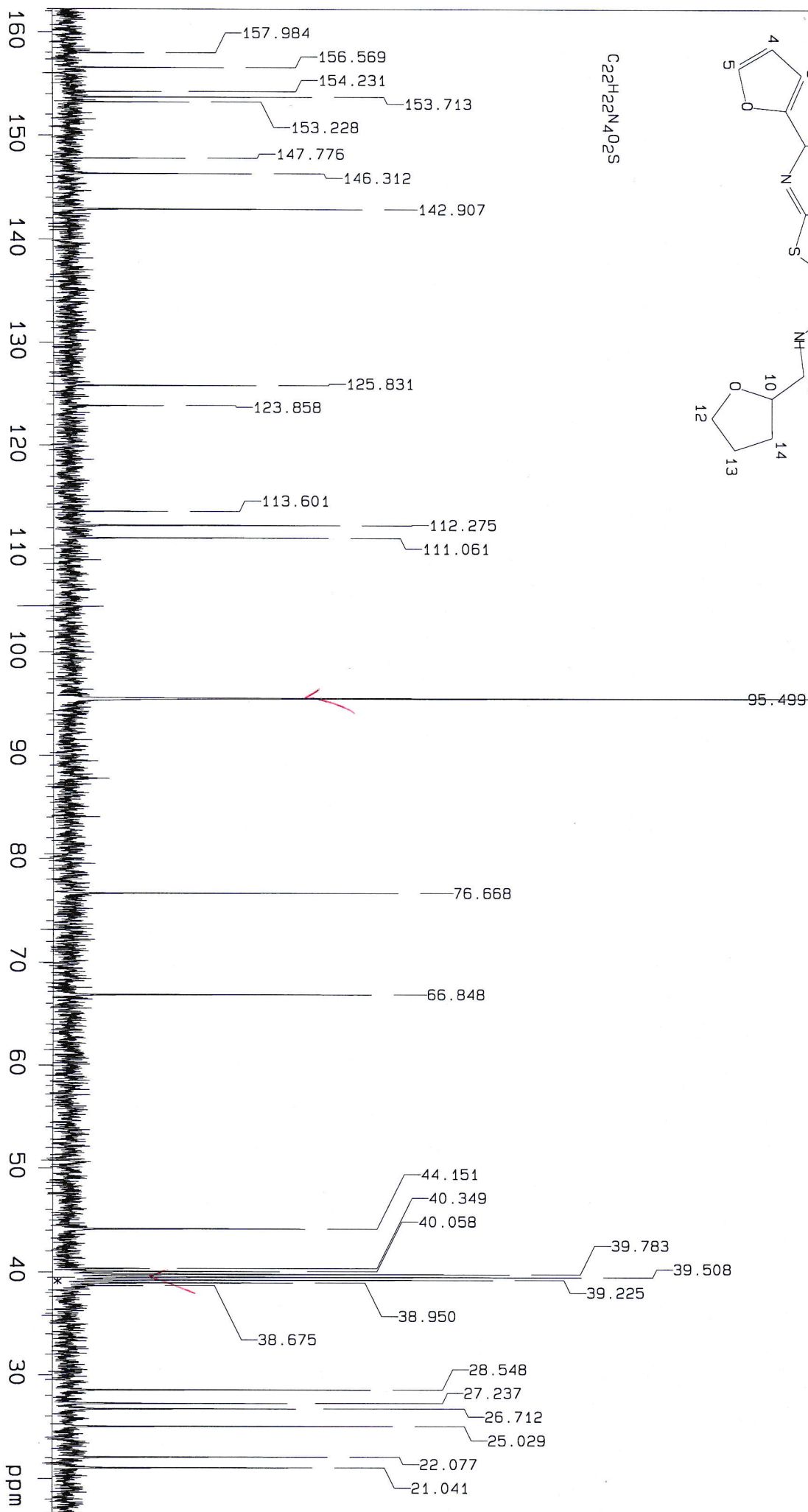
$C_{22}H_{22}N_4O_2S$



58



C₂₂H₂₂N₄O₂S

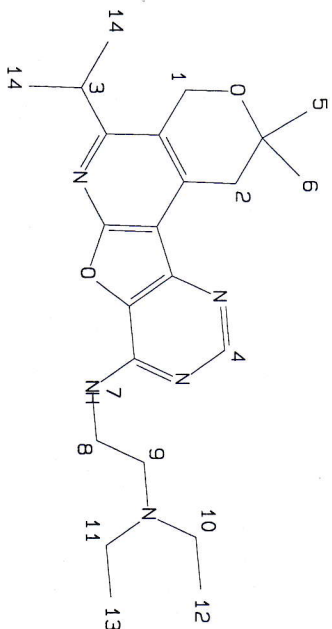


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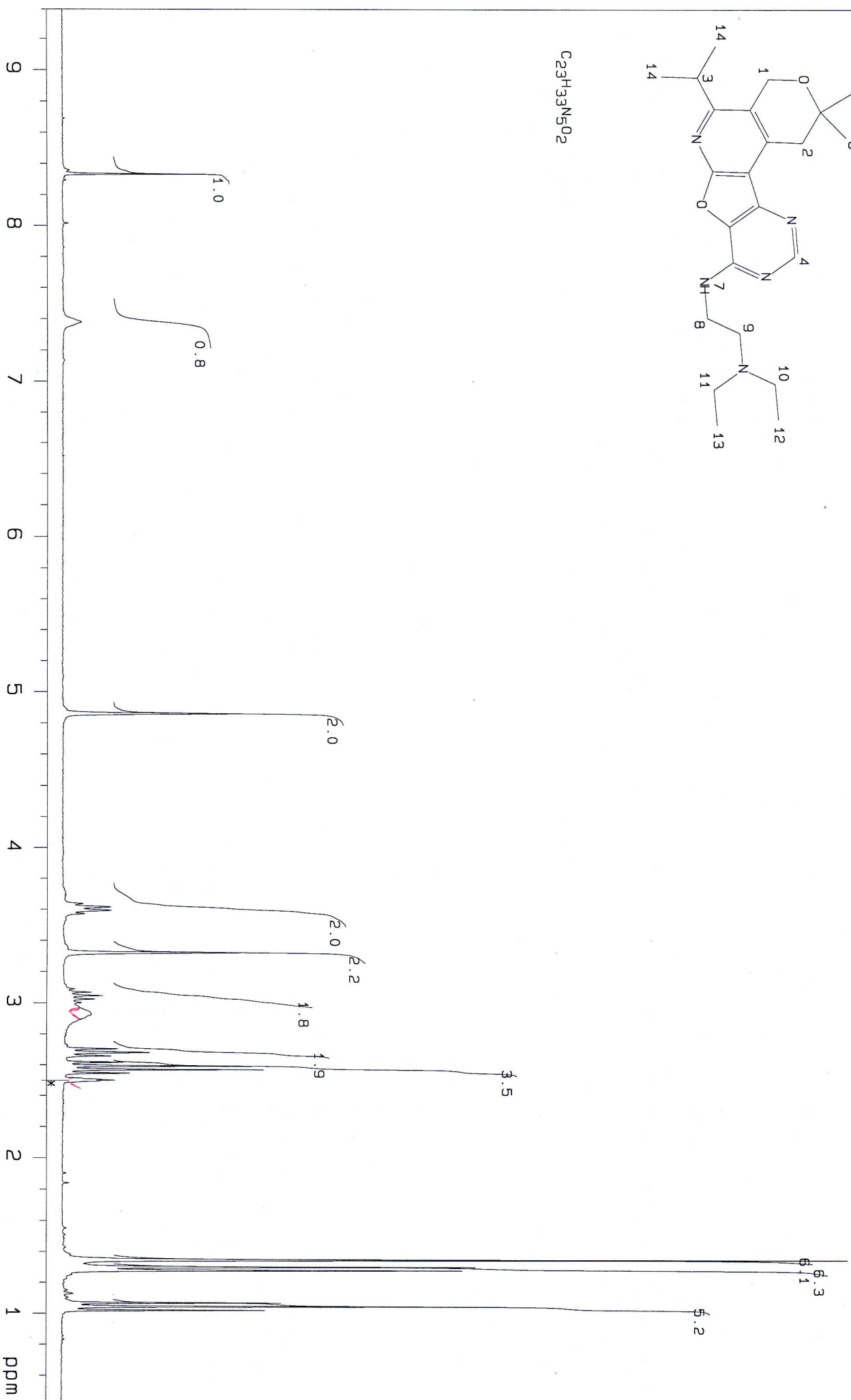
7c

HA-119

SAMV_19 ha-119



C₂₃H₃₃N₅O₂



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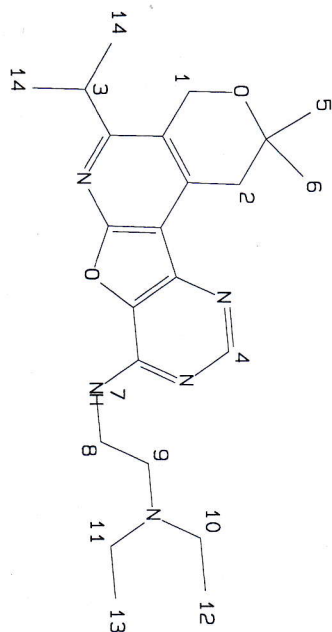
7c

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
HA-119

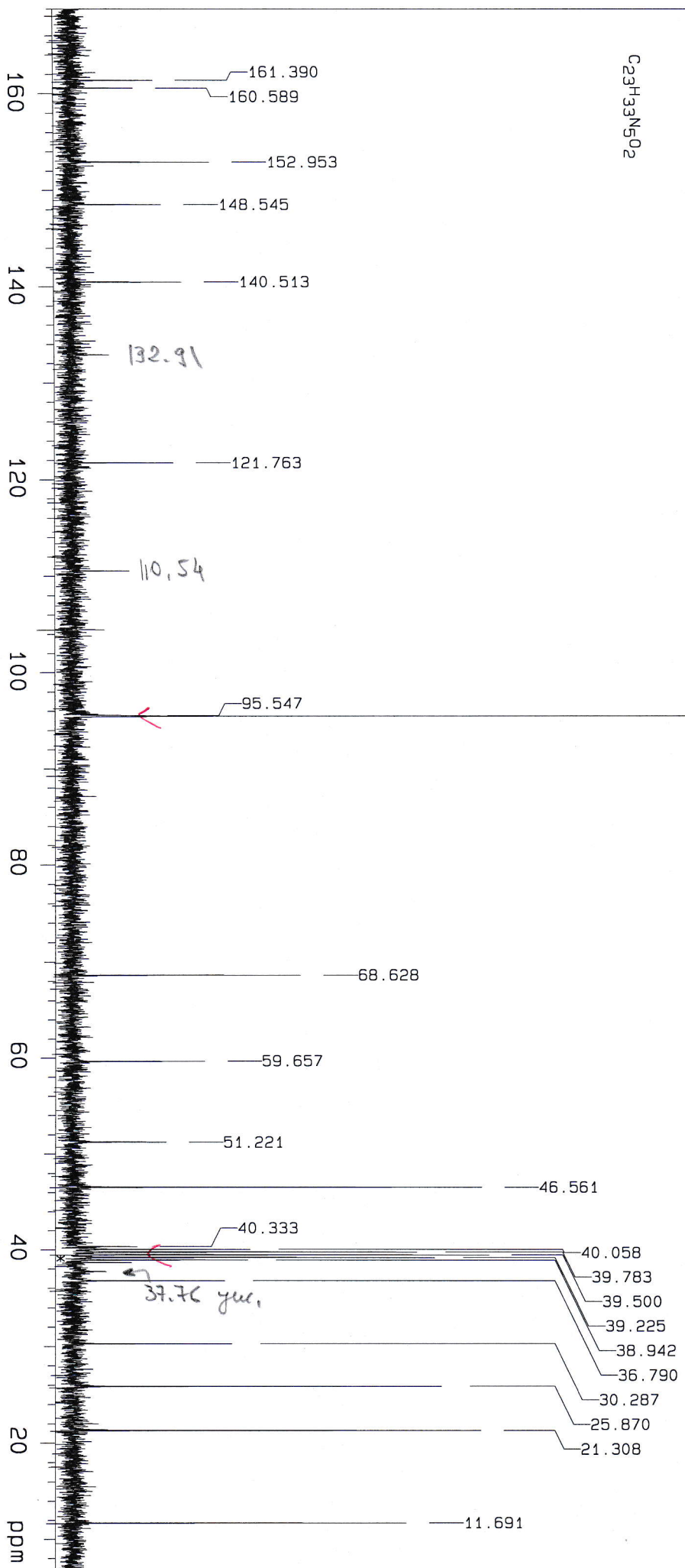
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SAMV_19 ha-119

Jul 2 2019



C₂₃H₃₃N₅O₂



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7e

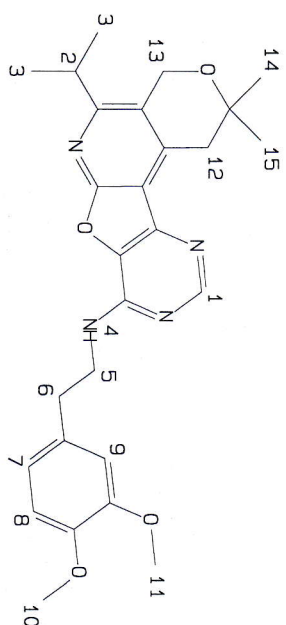
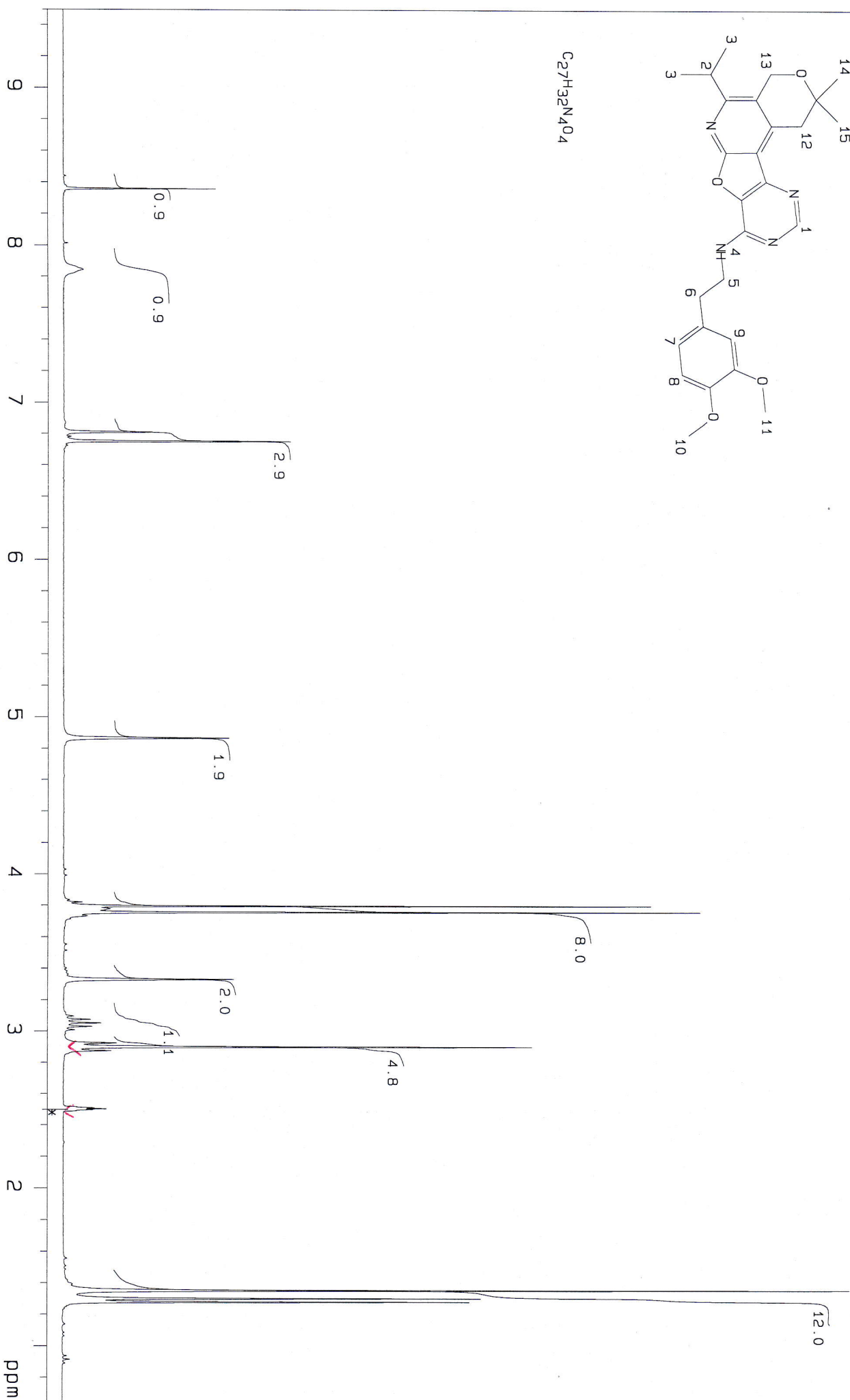
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX

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Jul 4 2019

AE0012-0361

SAMV_19 ae0012-0361

 $C_{27}H_{32}N_4O_4$ 

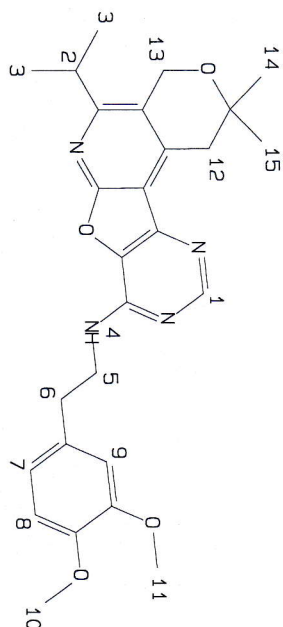
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
AE0012-0361

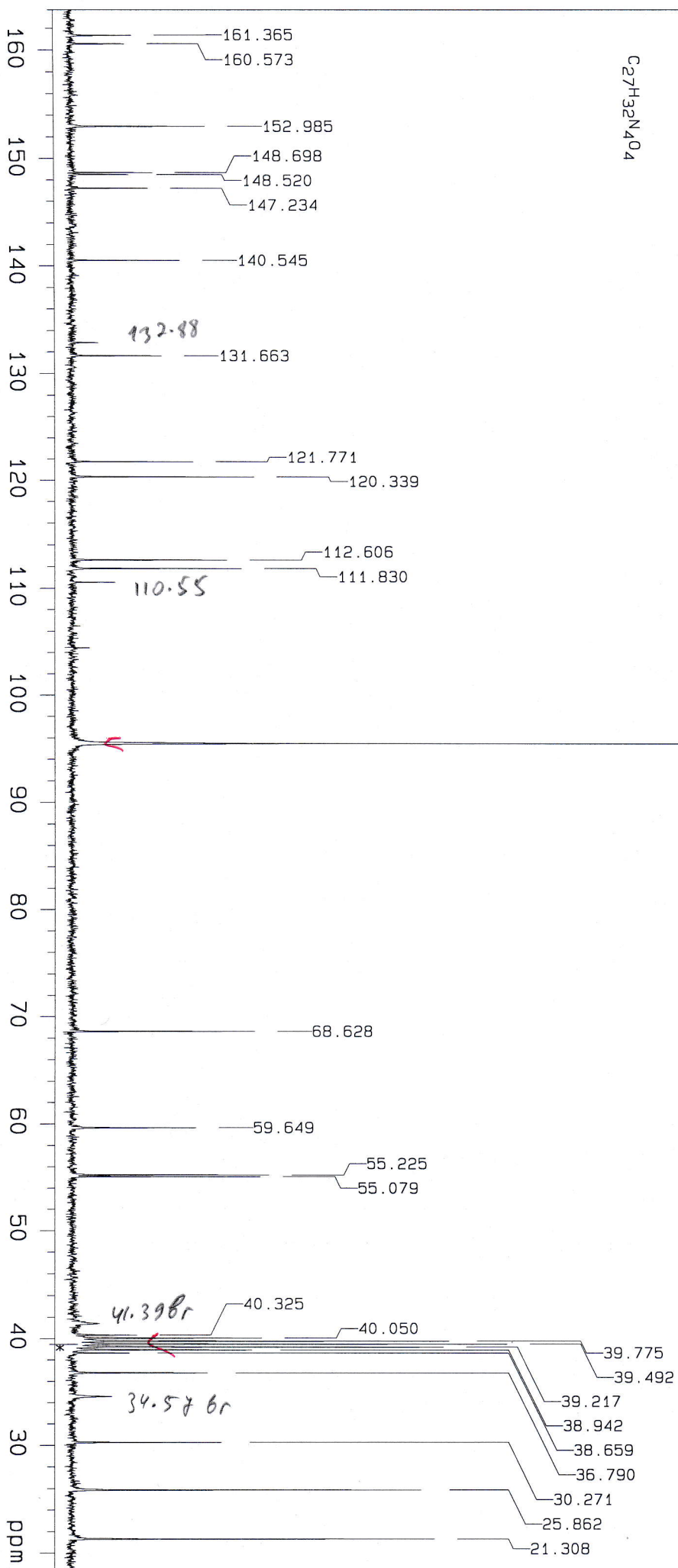
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SAMV_19 ae0012-0361

Jul 4 2019



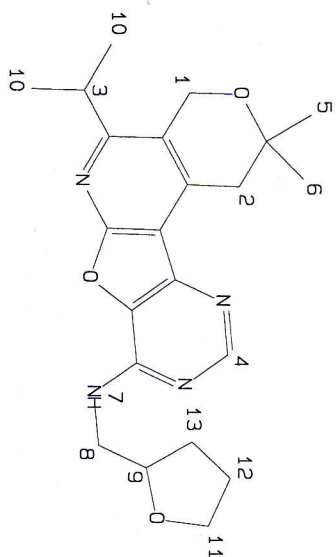
$C_{27}H_{32}N_4O_4$



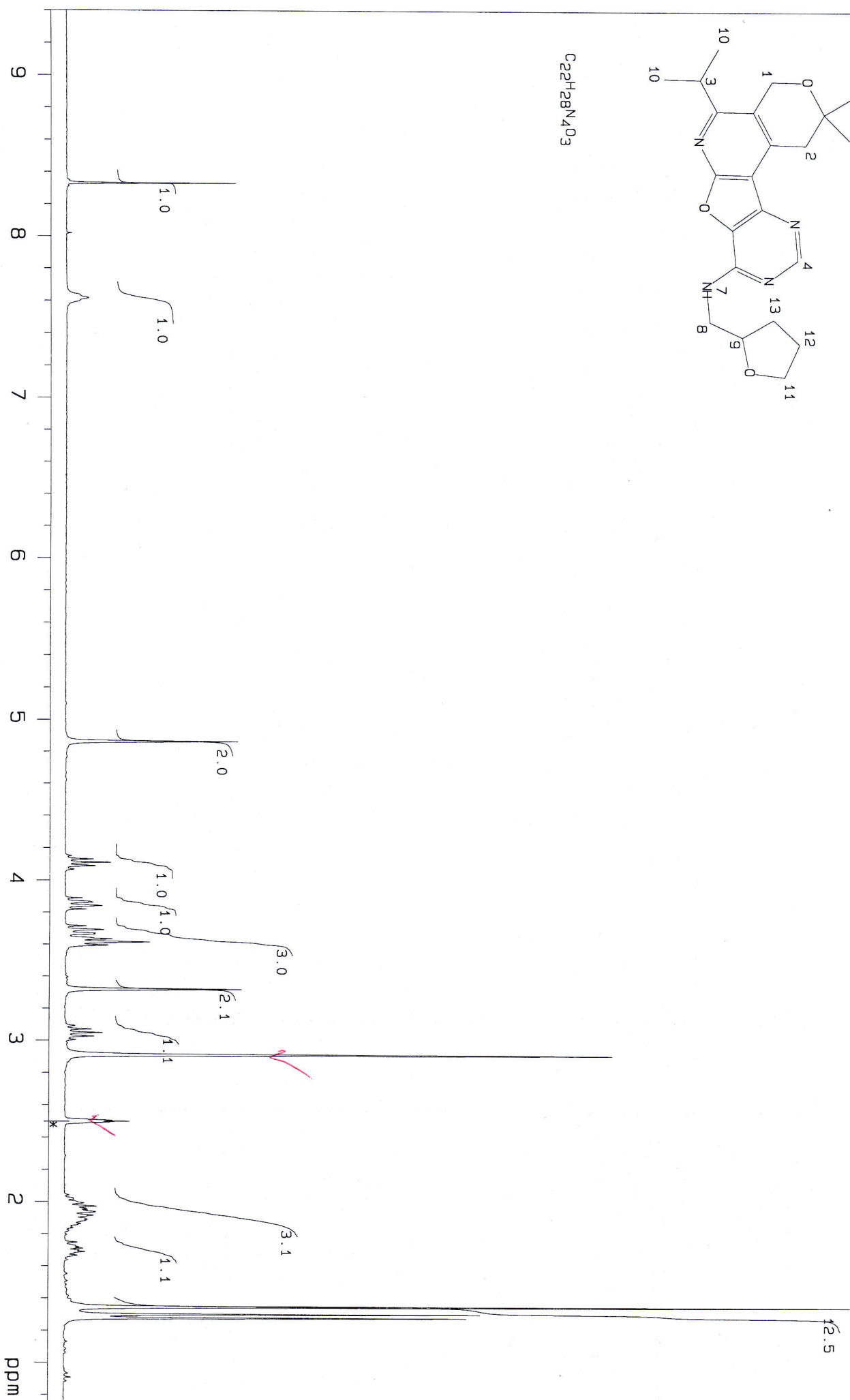
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HA-392

SAMV_19 ha-392



C₂₂H₂₈N₄O₃



+ 100

76

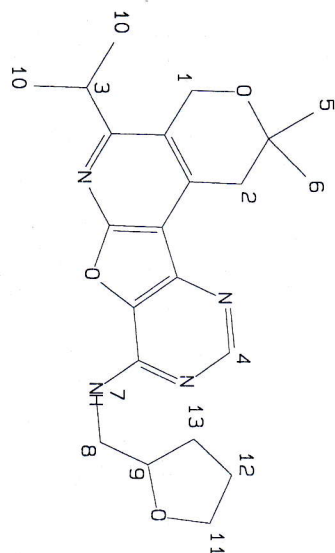
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX

HA-392

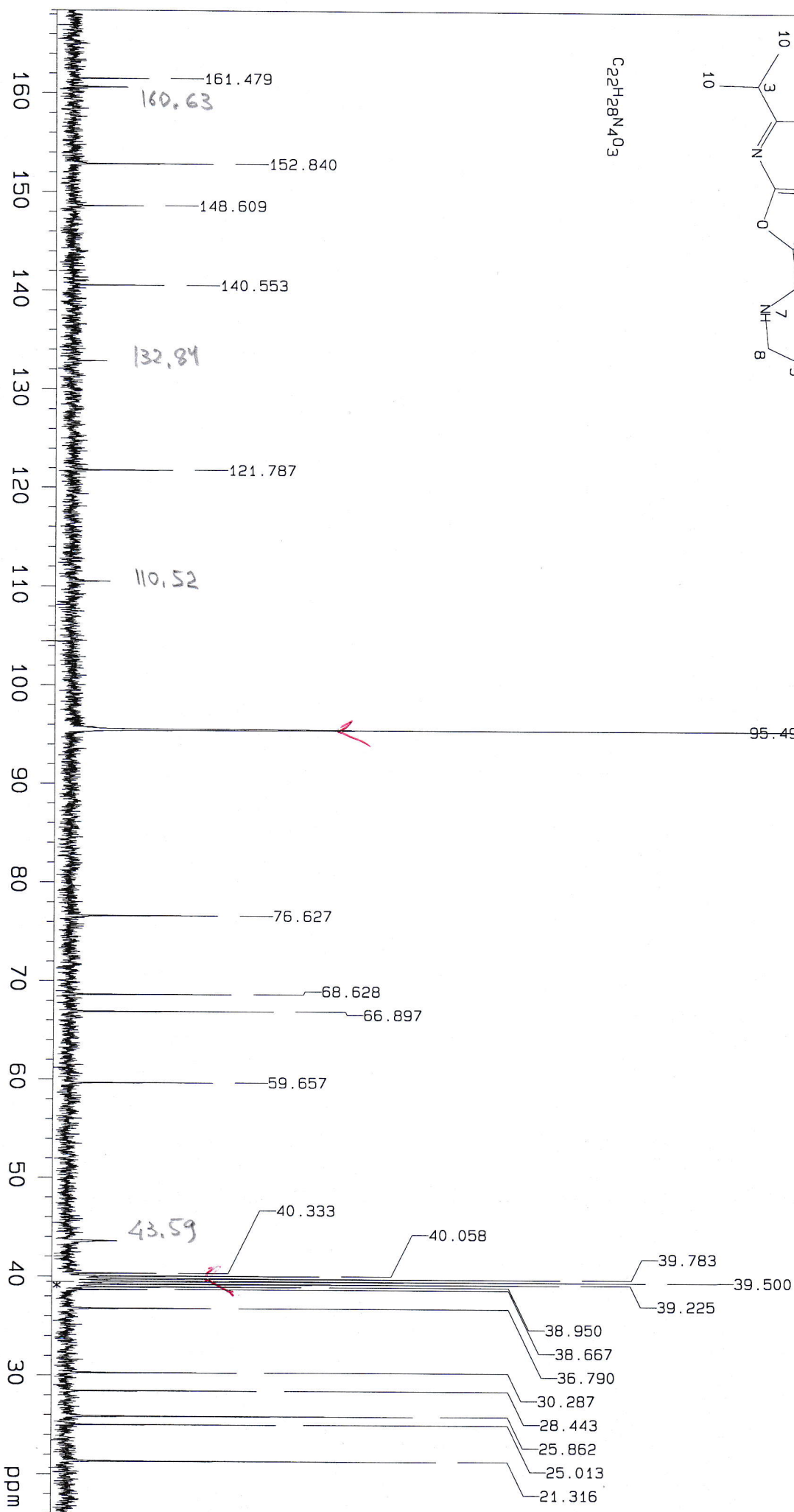
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SAWV_19 ha-392

Jul 3 2019



C₂₂H₂₈N₄O₃



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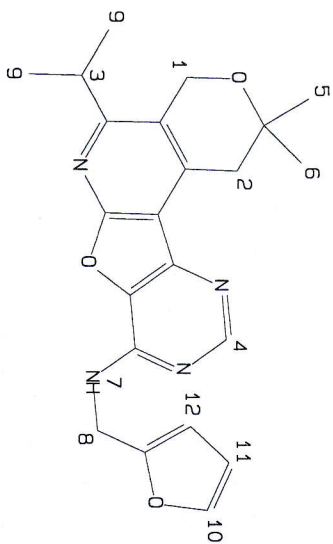
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Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
HA-439

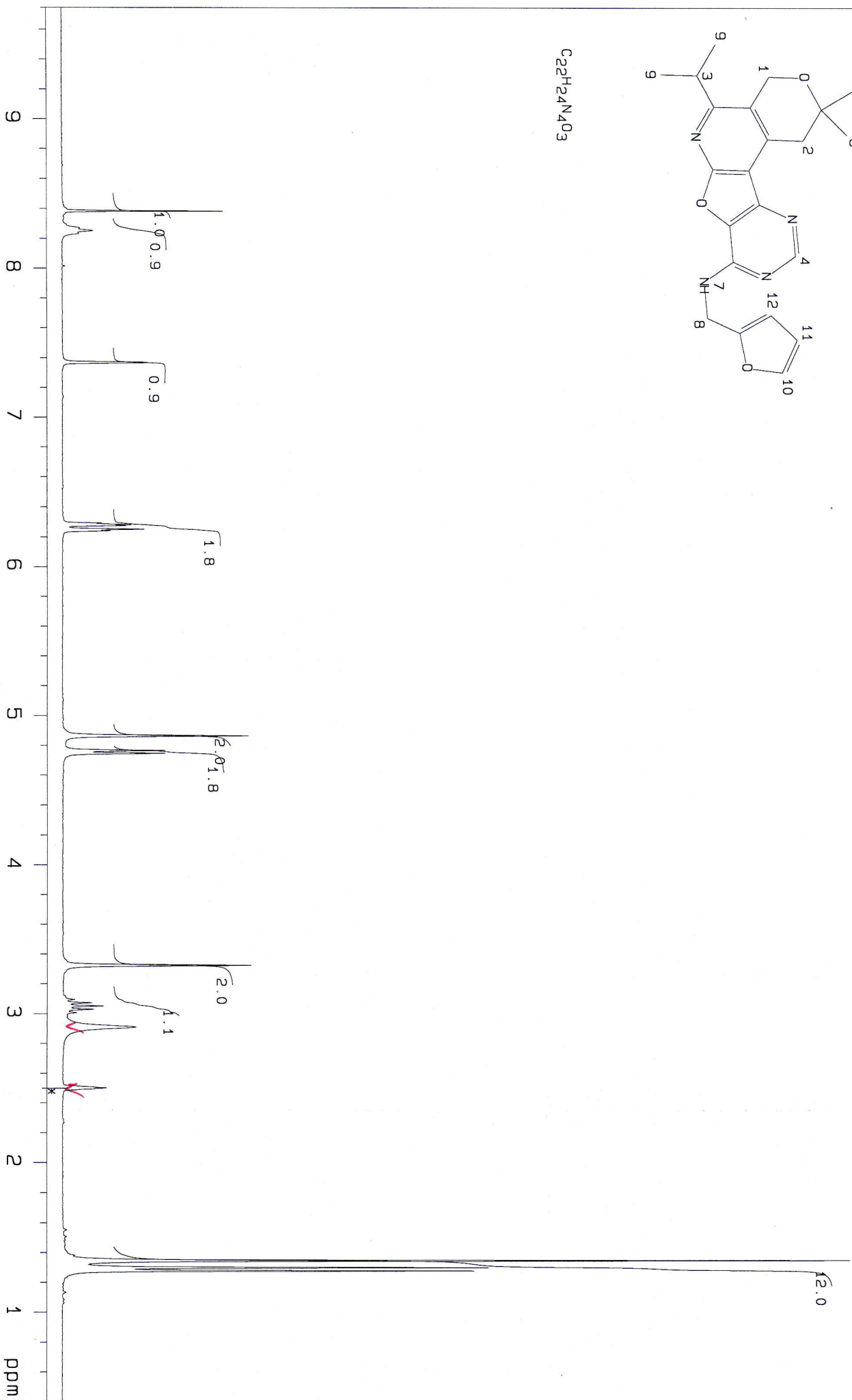
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SAMV_19 h_a = 439

Jul 2 2019



C₂₂H₂₄N₄O₃



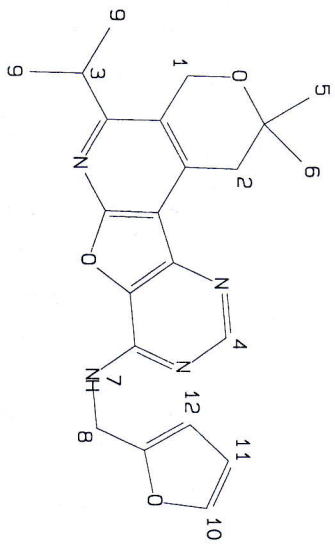
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AE0012-0320

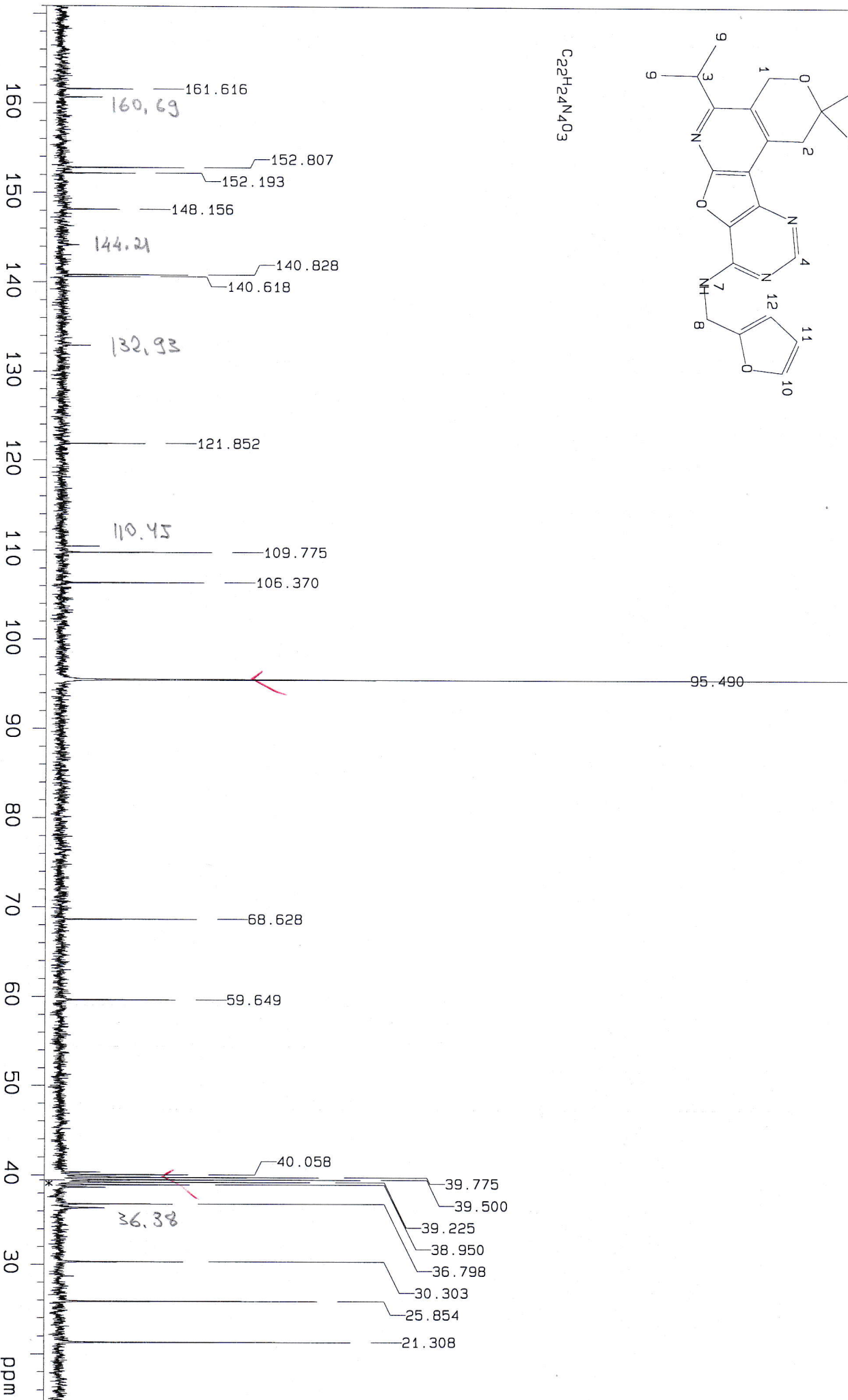
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SAMV_19 ae0012-0320

Jul 3 2019



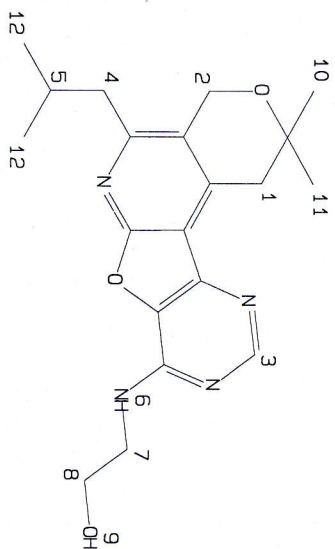
C₂₂H₂₄N₄O₃



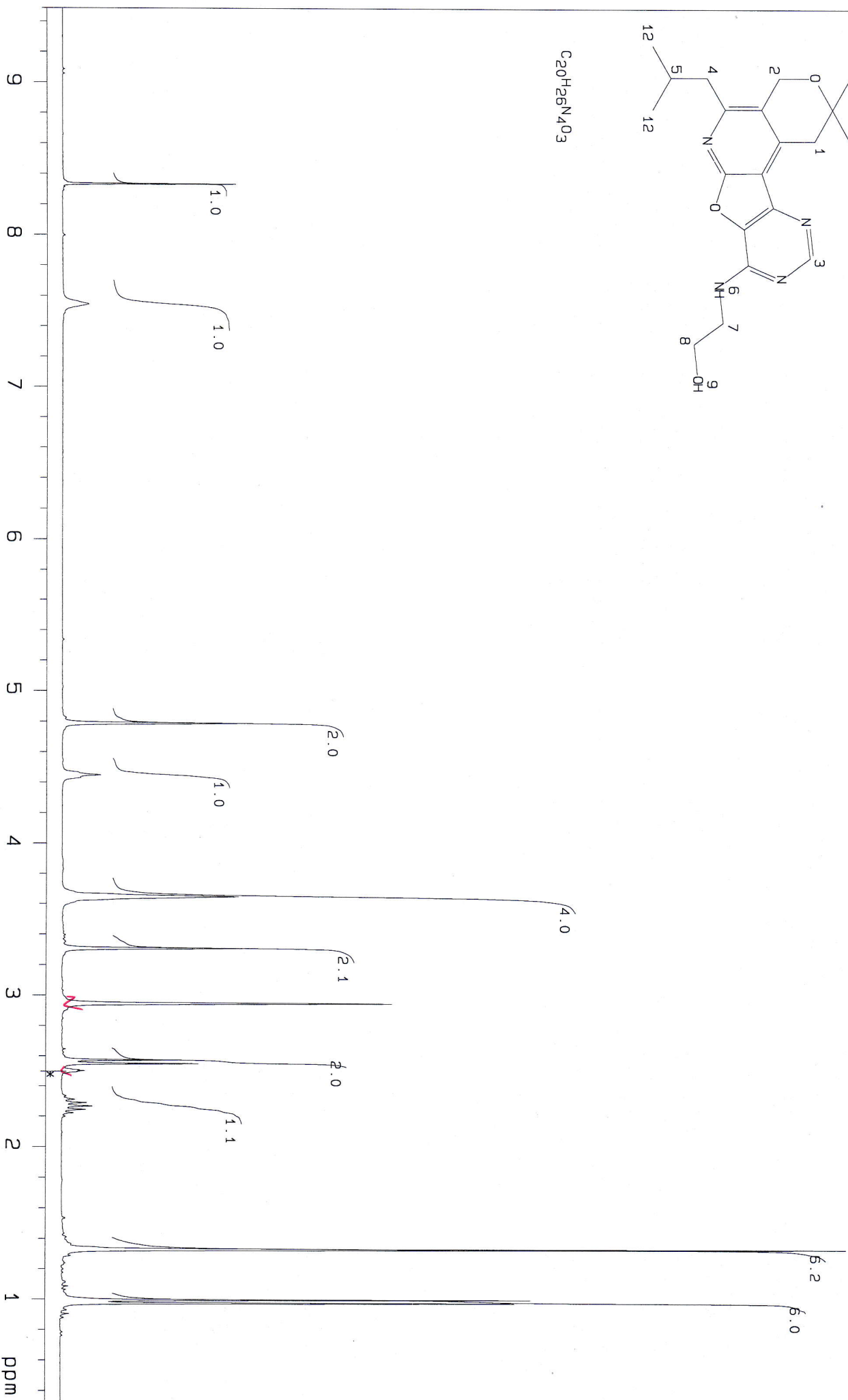
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AE0012-0438

SAMV_19 ae0012-0438



C₂₀H₂₆N₄O₃

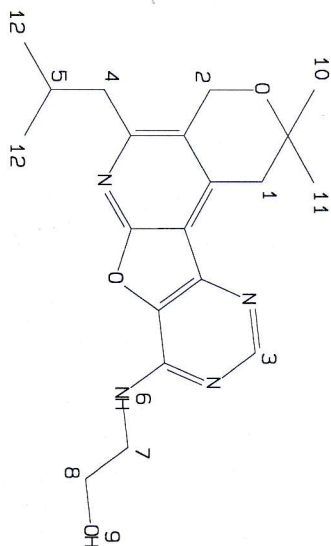


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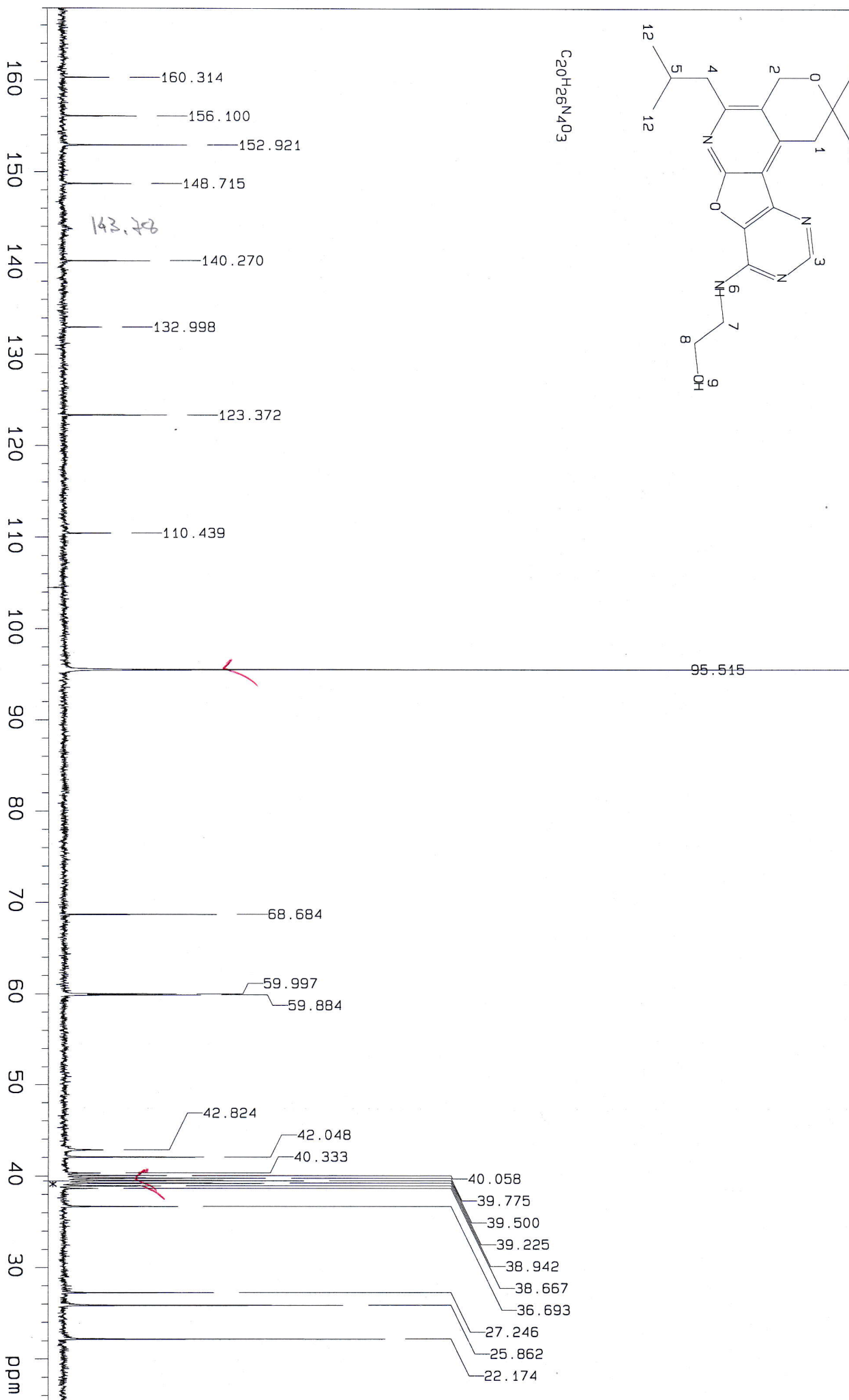
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AE0012-0438

SAMV_19 ae0012-0438



C₂₀H₂₆N₄O₃

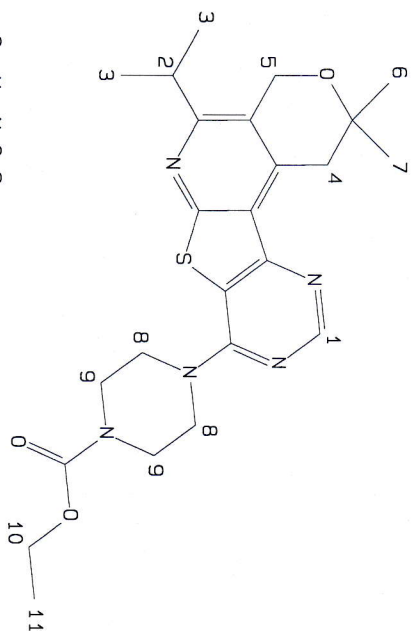


+ Conf

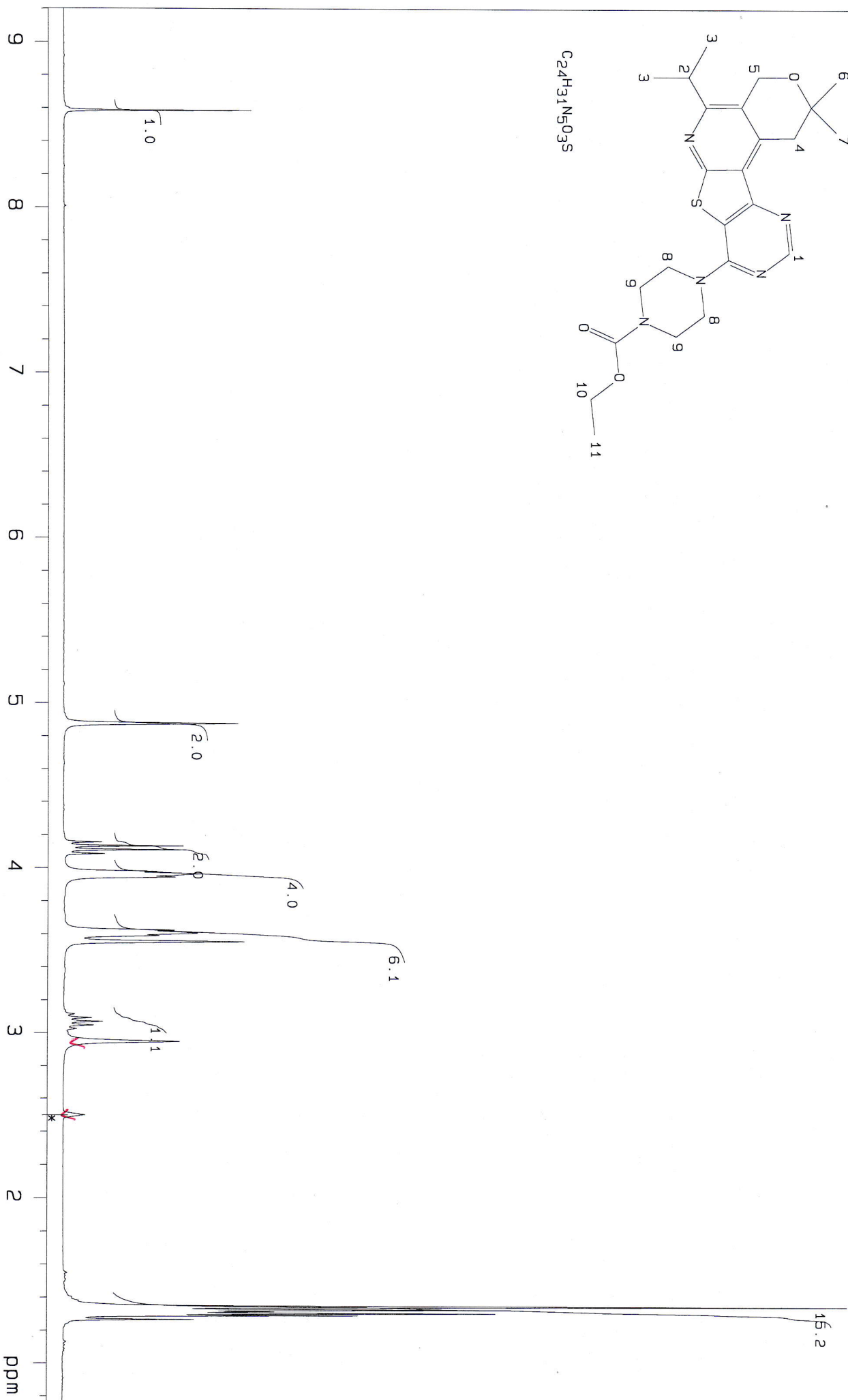
7e

SC-0318-1217

SAMV_19 SC-0318-1217



C₂₄H₃₁N₅O₃S



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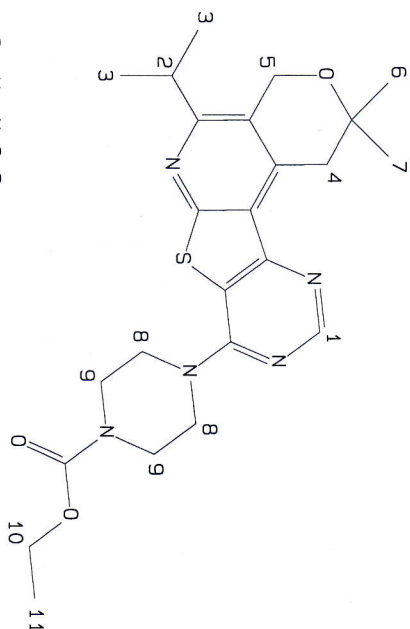
42

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
SC-0318-1217

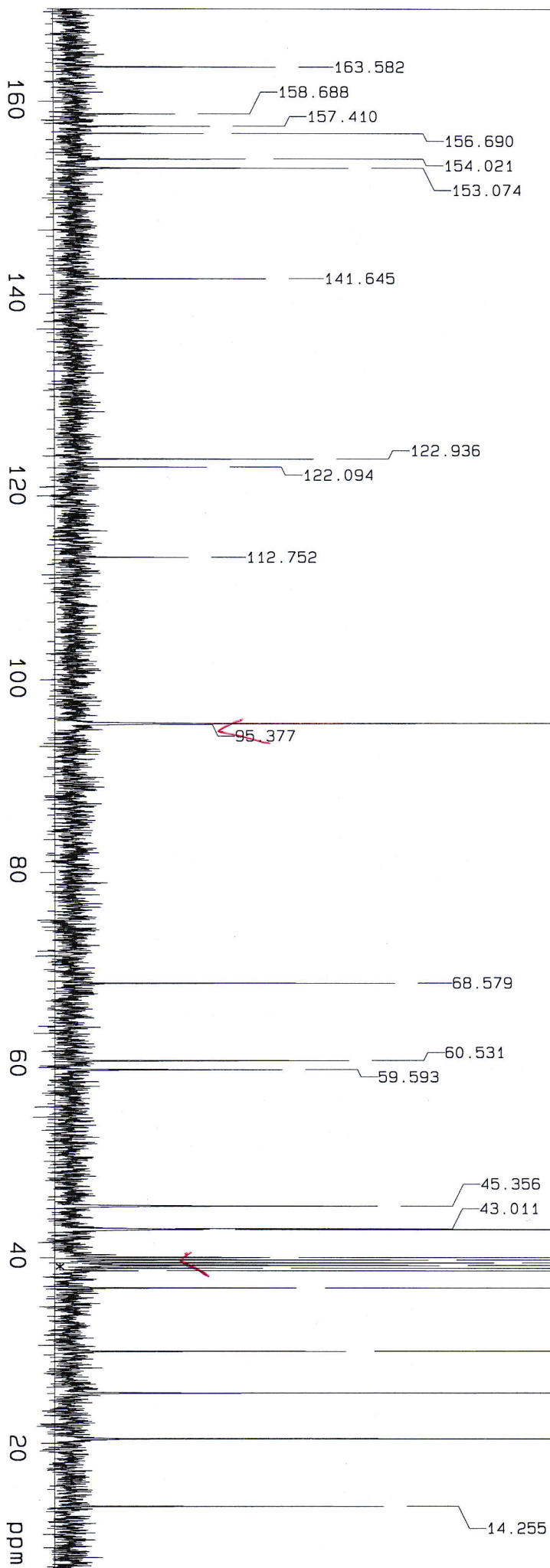
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SAMV_19 SC-0318-1217

Jul 8 2019



C₂₄H₃₁N₅O₃S



+ Conf

7m

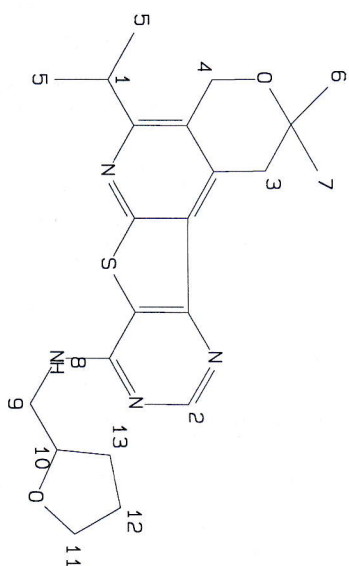
Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX

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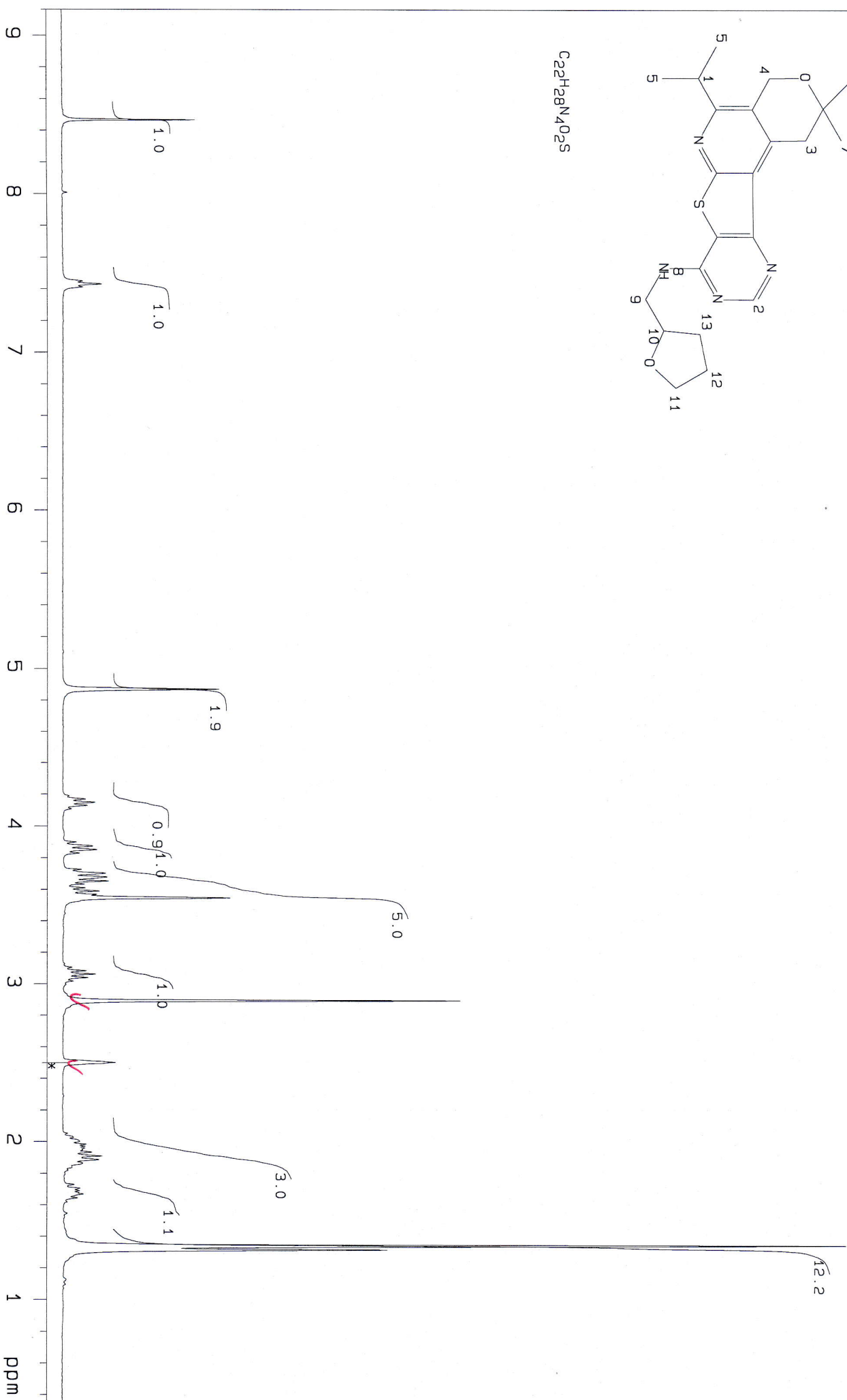
S-367

SAMV_19 s-367

Jul 15 2019



$C_{22}H_{28}N_4O_2S$



+ [Signature]

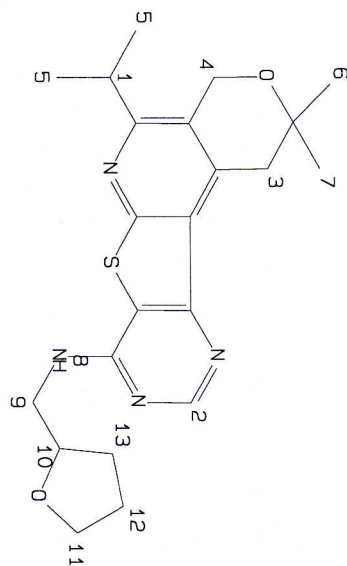
7m

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
S-367

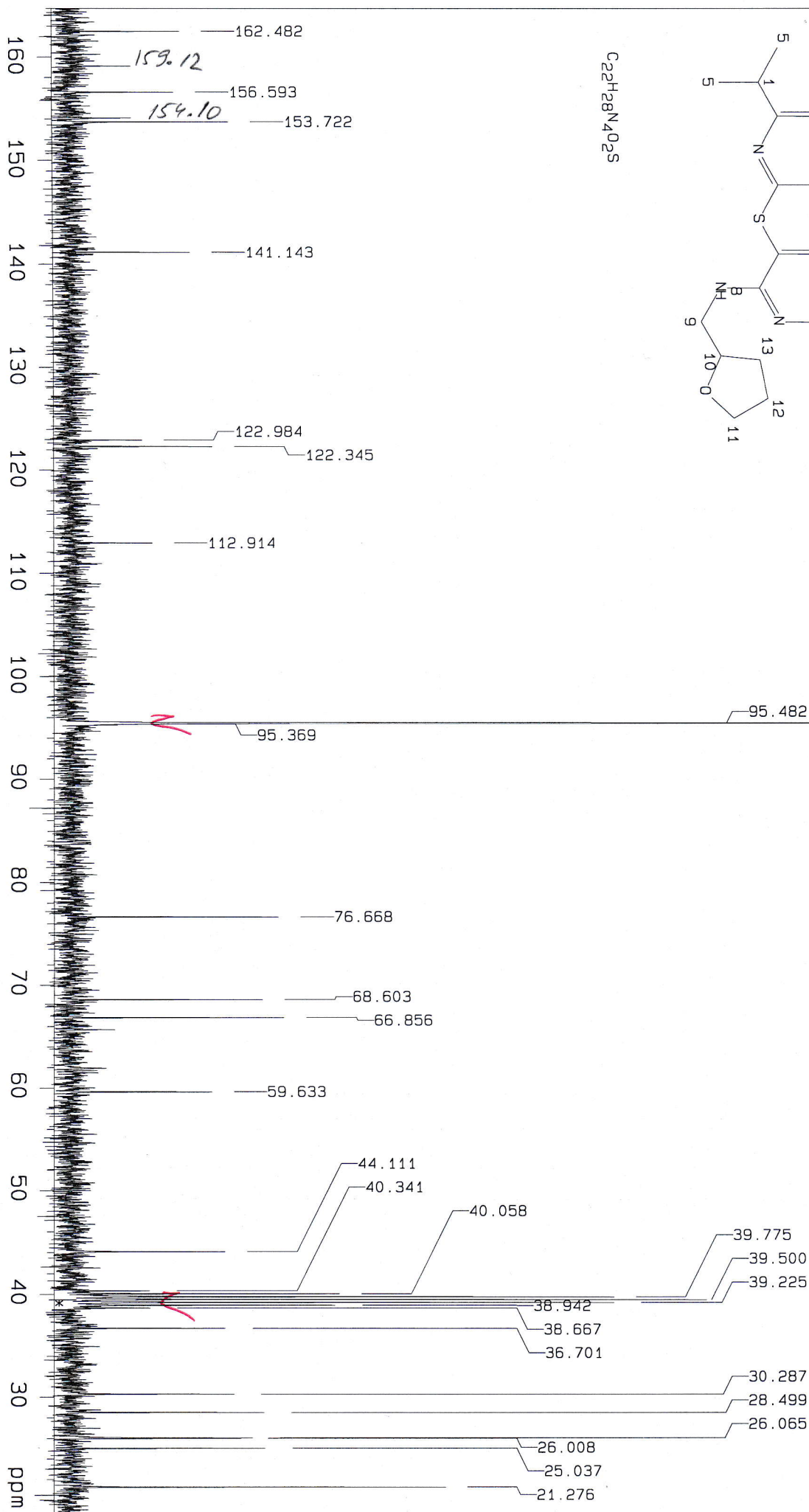
C13 75.465 MHz, nt=576, np=19998, temp=30.0 C, lb=1.0, solvent=DMSO/CCL4 1/3

SAMV_19 s-367

Jul 15 2019



C₂₂H₂₈N₄O₂S



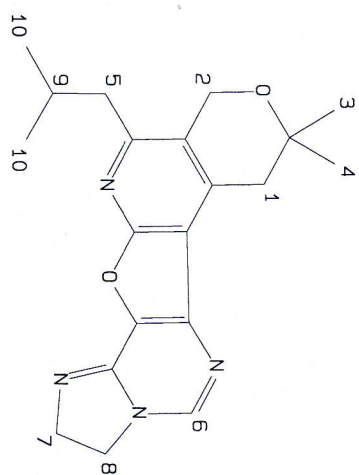
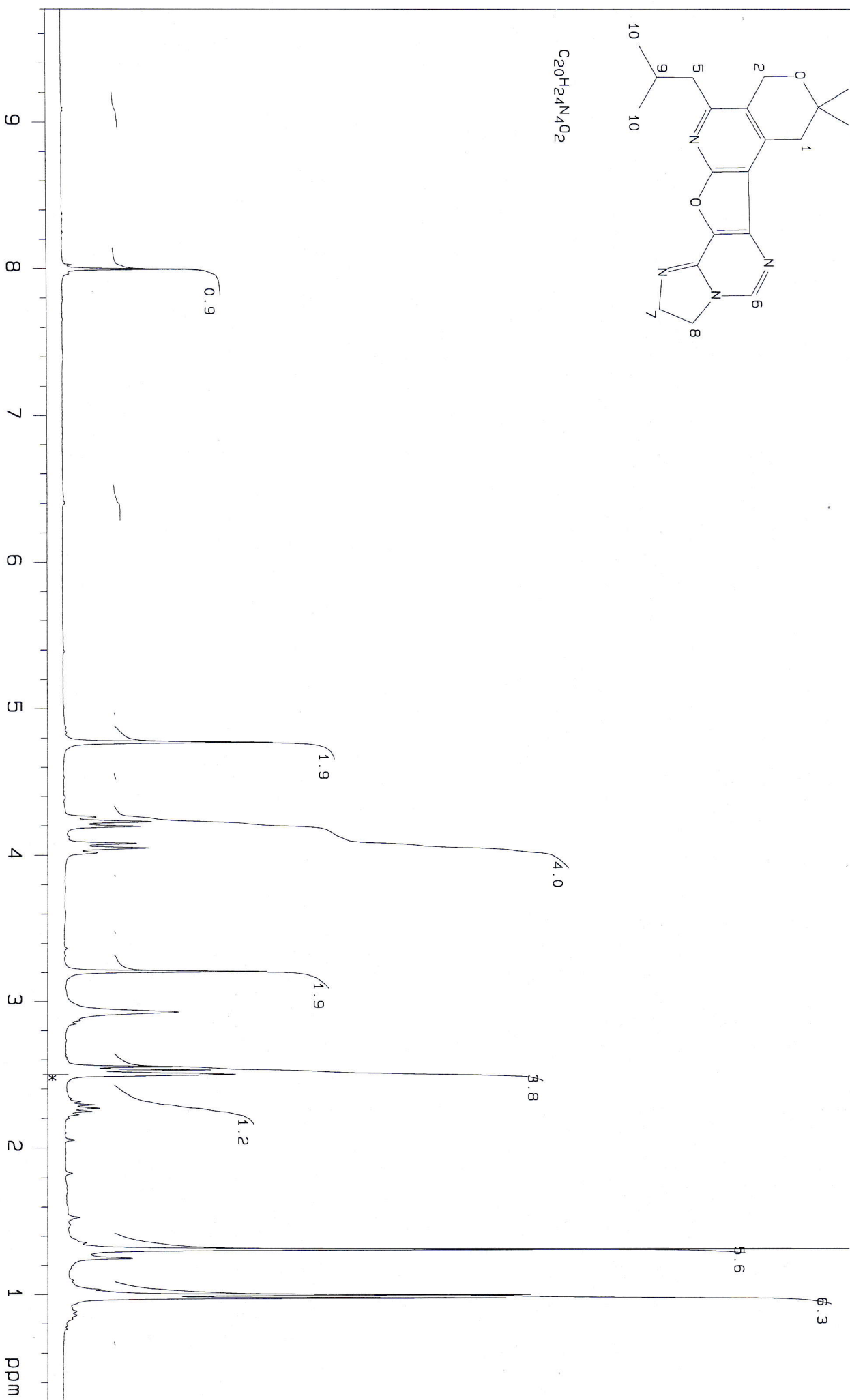
+ [Signature]

8

HA-190

SAMV_10 ha-190

Nov 3 2010

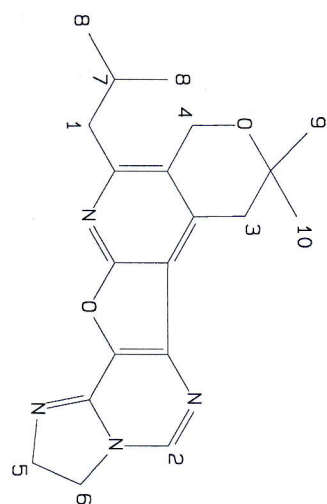
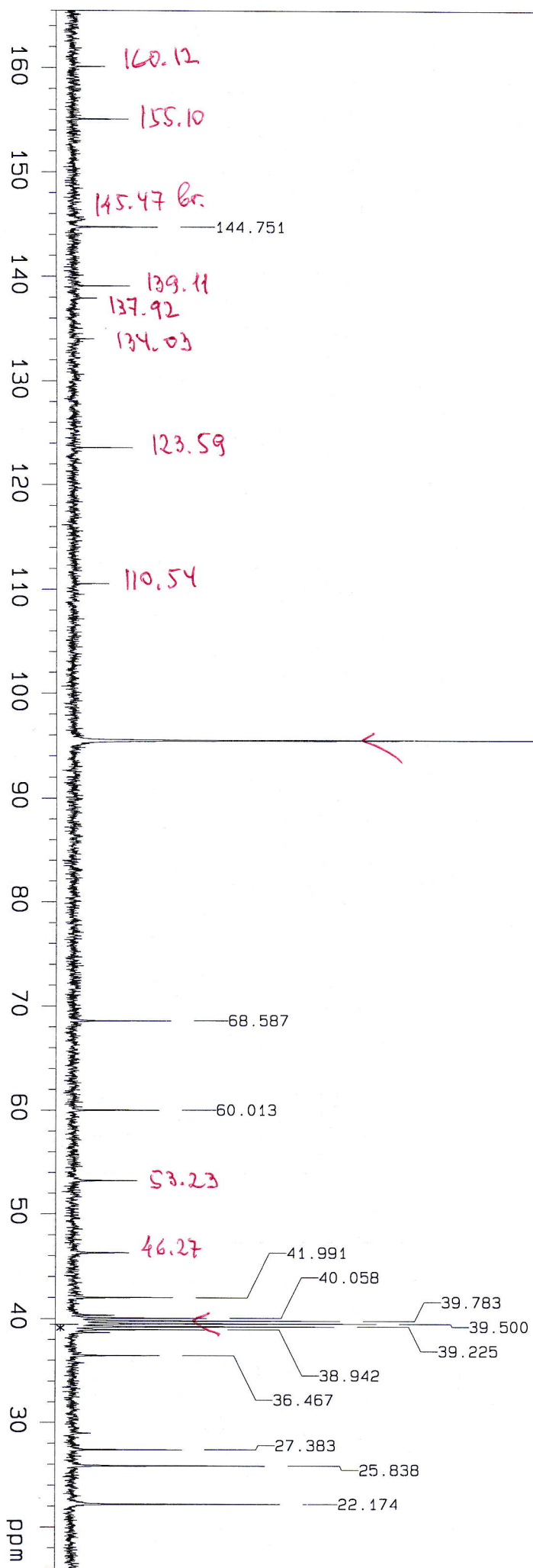
 $C_{20}H_{24}N_4O_2$ 

8

HA-190

SAMV_19 ha-190

Jul 15 2019

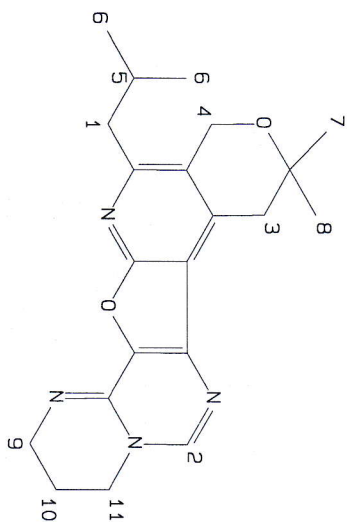
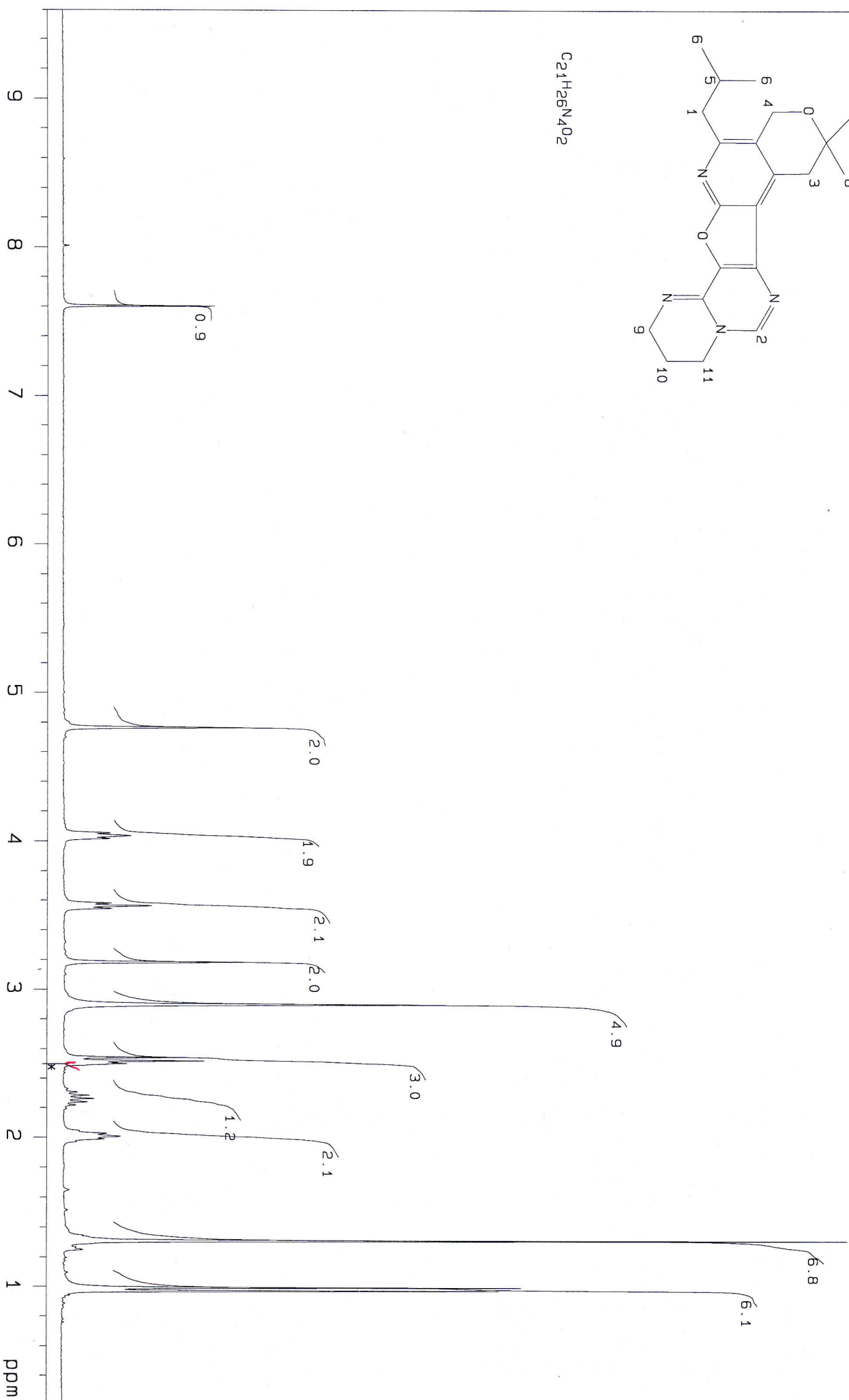
 $C_{20}H_{24}N_4O_2$ 

+ Conf

9

HA-663

SAMV_19 ha-663

 $C_{21}H_{26}N_4O_2$ 

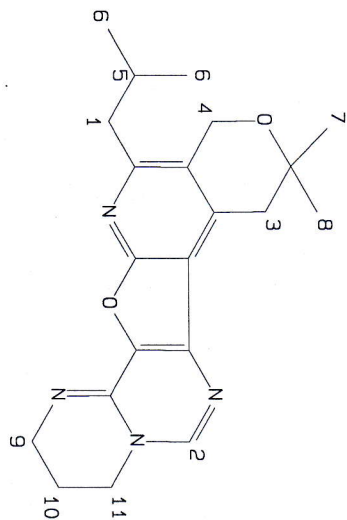
9

Molecular Structure Research Centre, Yerevan, Armenia, Varian Mercury-300VX
HA-663

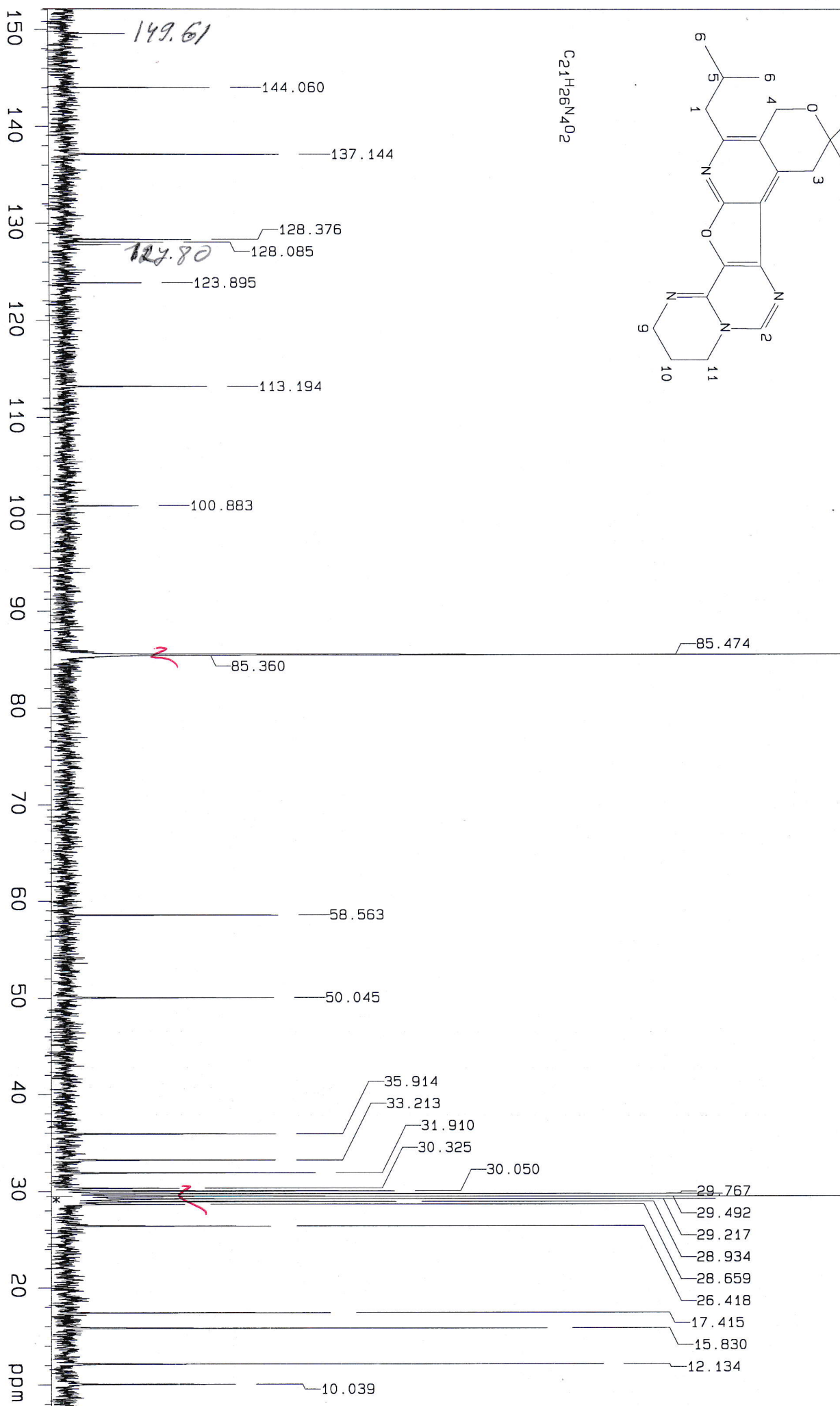
C13 75.465 MHz, nt=2400, np=1998, temp=30.0 C, lb=1.0, solvent=DMSO/CD4 1/3

SAMV_19 ha-663

Jul 18 2019



C₂₁H₂₆N₄O₂



+ [Signature]