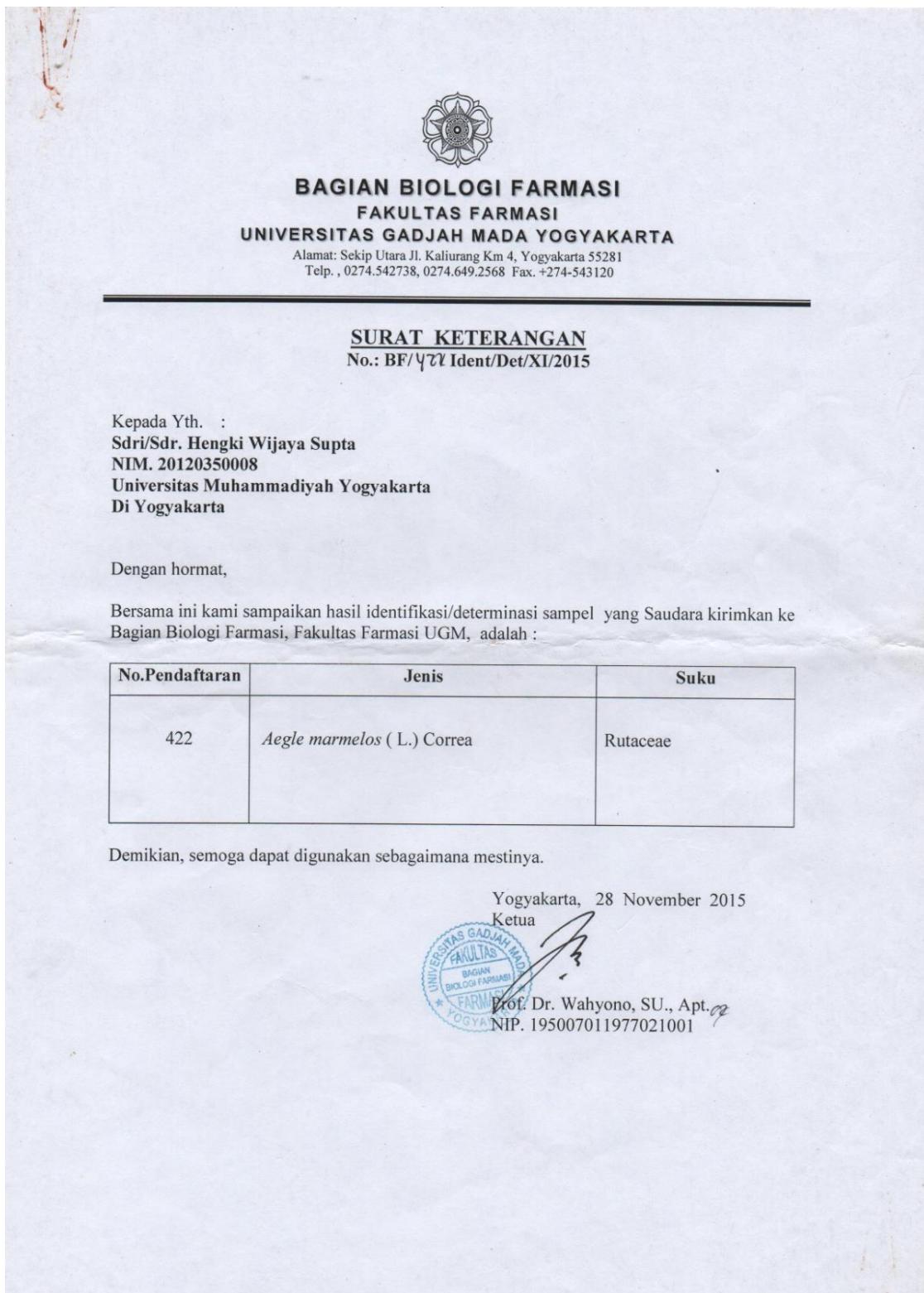
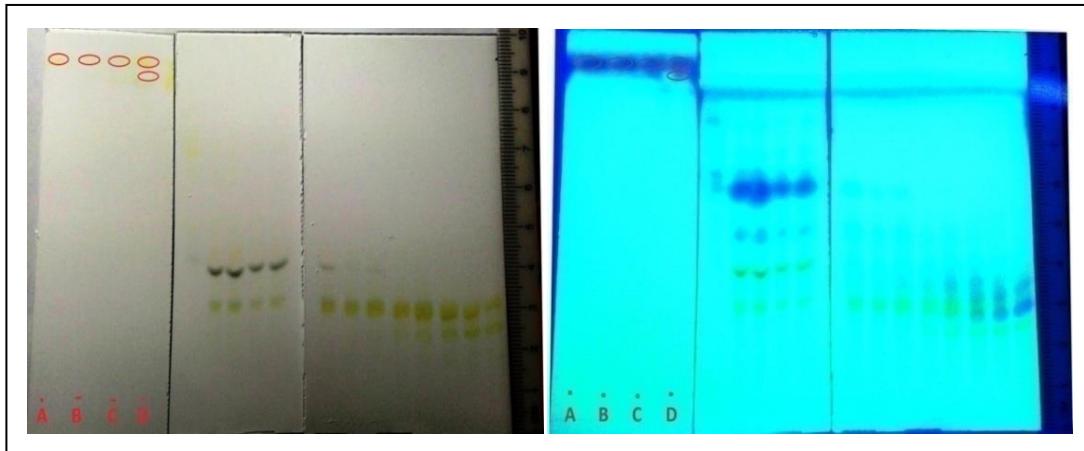


LAMPIRAN

Lampiran 1. Sertifikat hasil determinasi *Aegle marmelos* Correa



Lampiran 2. Hasil KLT fraksi B



Lampiran 3. Perhitungan nilai Rf fraksi B

$$Rf = \frac{\text{jarak titik nodai dari batas bawah}}{\text{jarak batas eluen pada batas atas}}$$

- Sampel A $Rf = \frac{8,0}{8,0} = 1,0$
- Sampel B $Rf = \frac{8,0}{8,0} = 1,0$
- Sampel C $Rf = \frac{8,0}{8,0} = 1,0$
- Sampel D2 $Rf = \frac{7,6}{8,0} = 0,95$
- Sampel D1 $Rf = \frac{8}{8} = 1,0$

Lampiran 4. Perhitungan Berat Molekul (BM) 9-octadecenamide (C₁₈H₃₅NO)

Diketahui: Atom Relative (AR) C = 12

Atom Relative (AR) H = 1

Atom Relative (AR) N = 14

Atom Relative (AR) O = 16

Ditanya: Molecul Relative (MR) C₁₈H₃₅NO ?

Jawab

$$\begin{aligned} &= (18 \cdot \text{AR C}) + (35 \cdot \text{AR H}) + (1 \cdot \text{AR N}) + (1 \cdot \text{AR O}) \\ &= (18 \times 12) + (35 \times 1) + (1 \times 14) + (1 \times 16) \\ &= 216 + 35 + 14 + 16 \\ &= \mathbf{281 \text{ gram/mol}^{-1}} \end{aligned}$$

Lampiran 5. Perhitungan Berat Molekul (BM) lupeol (C₃₀H₅₀O)

Diketahui: Atom Relative (AR) C = 12

Atom Relative (AR) H = 1

Atom Relative (AR) O = 16

Ditanya: Molecul Relative (MR) C₃₀H₅₀O ?

Jawab = (30.AR C) + (50.AR H) + (1. AR O)

$$= (30 \times 12) + (50 \times 1) + (1 \times 16)$$

$$= 360 + 50 + 16$$

$$= \mathbf{426 \text{ gram/mol}^{-1}}$$

Lampiran 6. Instrumen penelitian



Lampiran 7. Kondisi GC-MS

C:\QCMSSolution\Datas\Project1\Agustus 2014\Hengky Wijaya Supta.u.qgd



Lab Kimia Organik FMIPA - UGM

QCMSS-QP2010S SHIMADZU
Kolom : AGILENT HP IMS
Panjang : 30 meter
ID : 0,25 mm
Film : 0,25 um
Gas pembawa : Helium
Pengionan : EI
70 Ev

Method

[Comment]

===== Analytical Line 1 =====

[GC-2010]
Column Oven Temp. :70.0 °C
Injection Temp. :310.00 °C
Injection Mode :Split
Flow Control Mode :Pressure
Pressure :13.7 kPa
Total Flow :20.0 mL/min
Column Flow :0.50 mL/min
Linear Velocity :25.9 cm/sec
Purge Flow :3.0 mL/min
Split Ratio :33.0
High Pressure Injection :OFF
Carrier Gas Saver :OFF
Splitter Hold :OFF
Oven Temp. Program
Rate Temperature(°C) Hold Time(min)
- 70.0 5.00
5.00 300.0 39.00

< Ready Check Heat Unit >
Column Oven : Yes
SPL1 : Yes
MS : Yes
< Ready Check Detector(FID) >
< Ready Check Baseline Drift >
< Ready Check Injection Flow >
SPL1 Carrier : Yes
SPL1 Purge : Yes
< Ready Check APC Flow >
< Ready Check Detector APC Flow >
External Wait :No
Equilibrium Time :3.0 min

[GC Program]

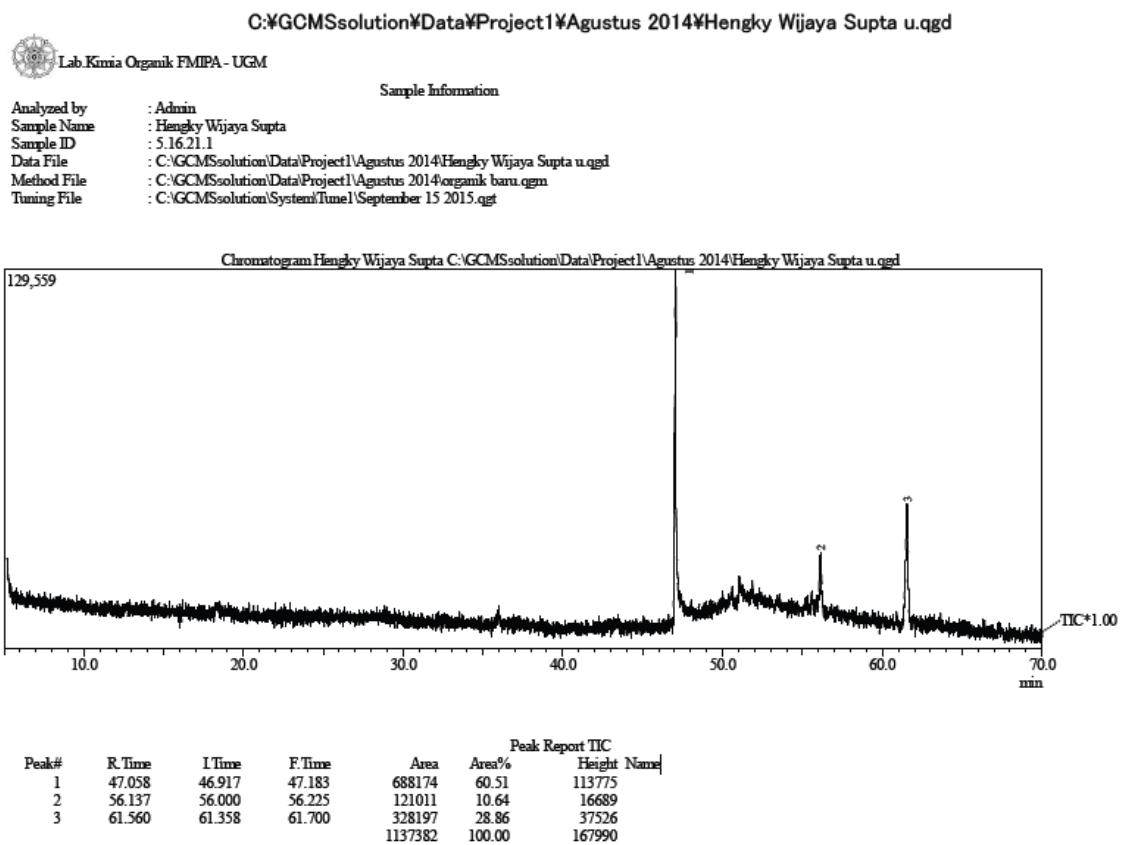
[QCMSS-QP2010]
IonSourceTemp :250.00 °C
Interface Temp. :305.00 °C
Solvent Cut Time :5.00 min
Detector Gain Mode :Relative
Detector Gain :0.33 kV
Threshold :0

[MS Table]
-Group 1 - Event 1-
Start Time :5.20min
End Time :90.00min
ACQ Mode :Scan
Event Time :0.50sec
Scan Speed :1250
Start m/z :28.00
End m/z :600.00

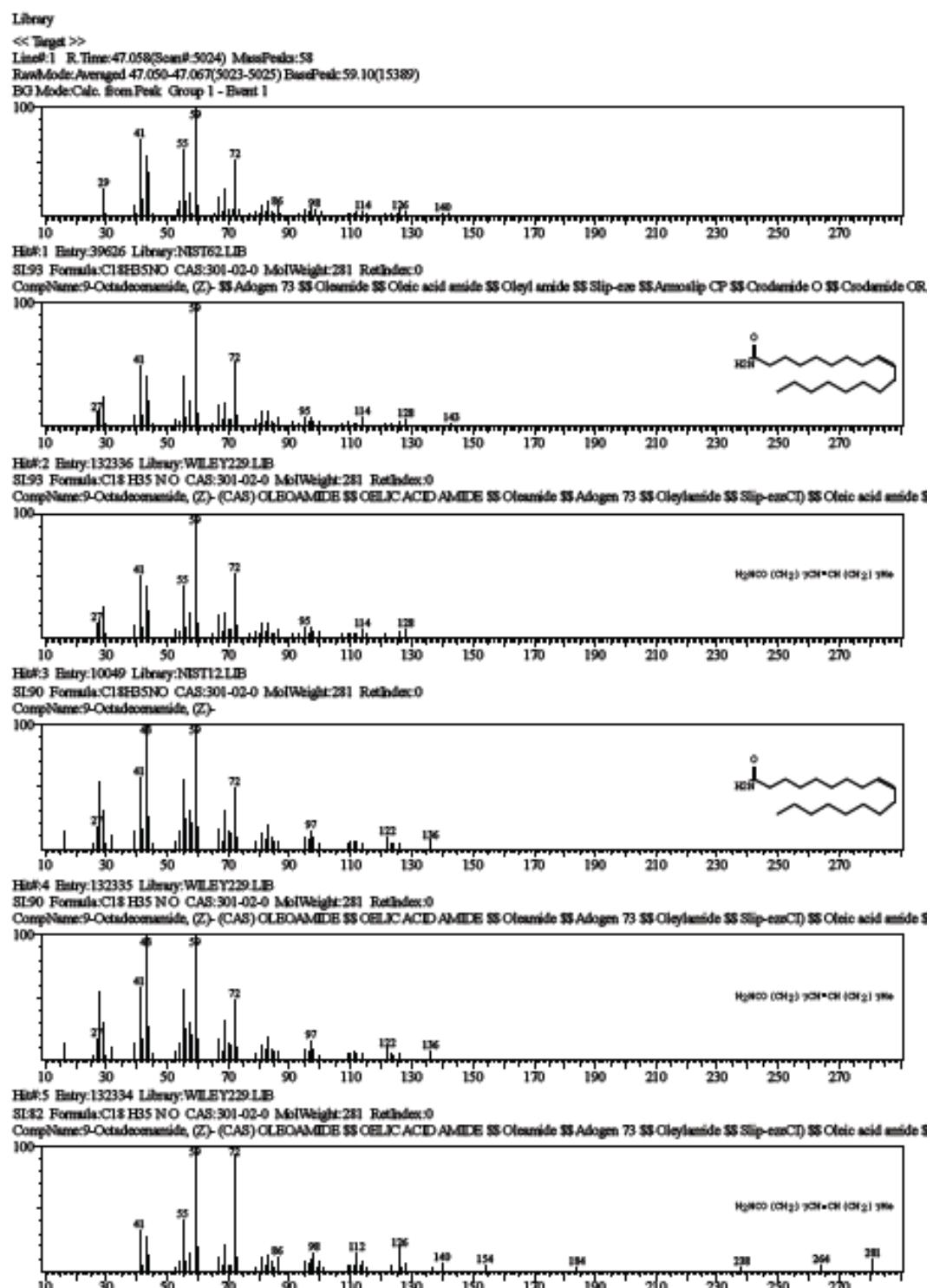
Sample Inlet Unit :GC

[MS Program]
Use MS Program :OFF

Lampiran 8. Kromatogram Gas Cromatography

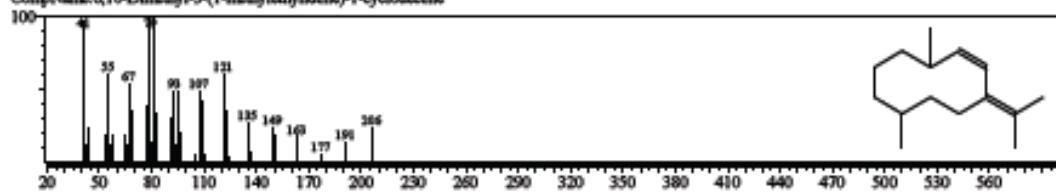
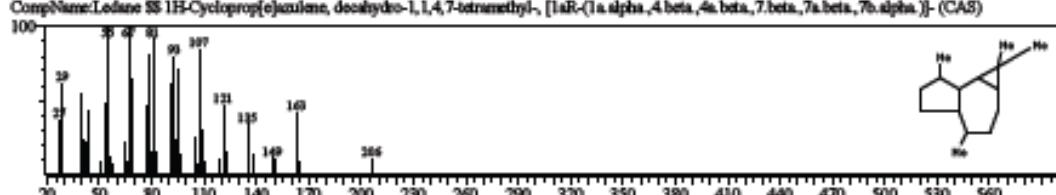
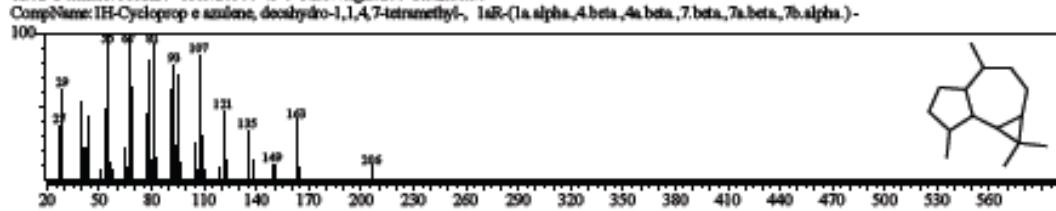
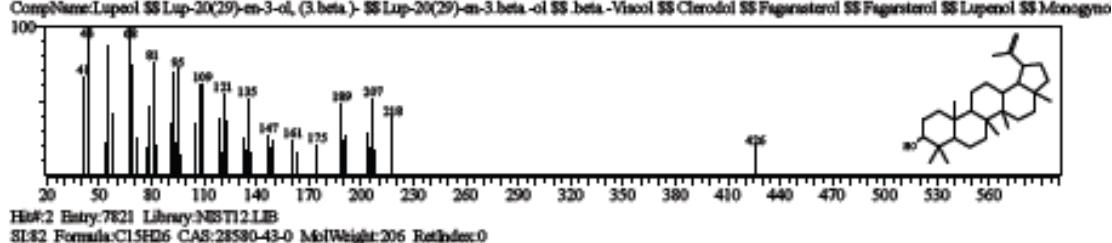
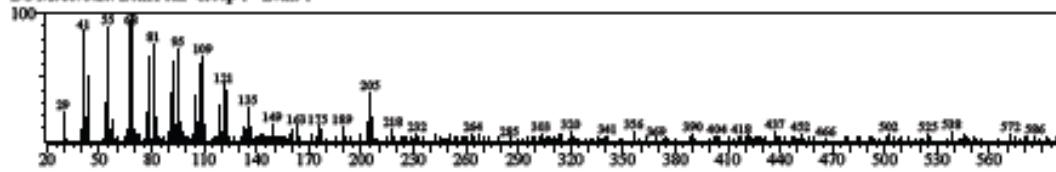


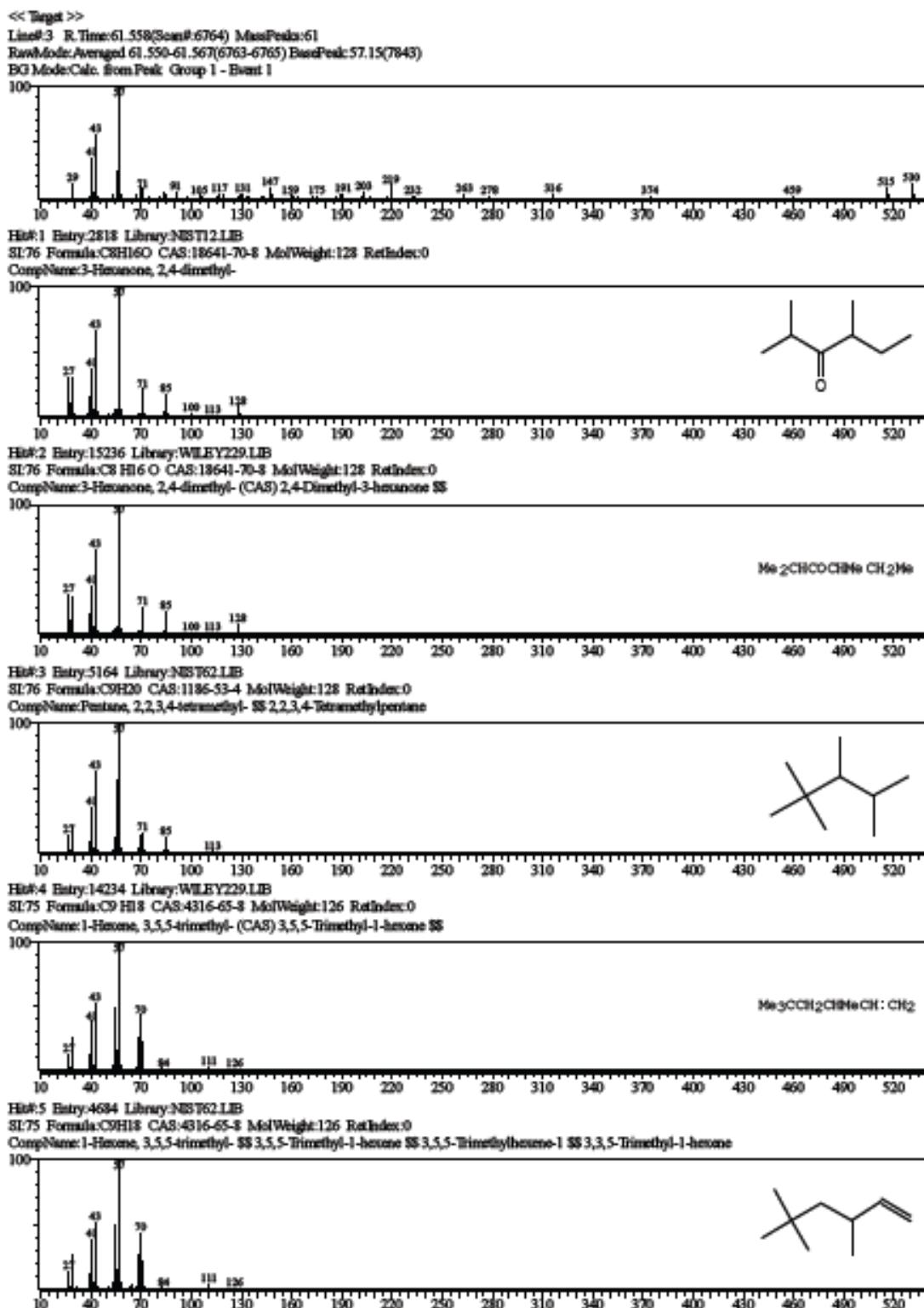
Lampiran 9. Mass Cromatography 3 senyawa fraksi korteks Maja



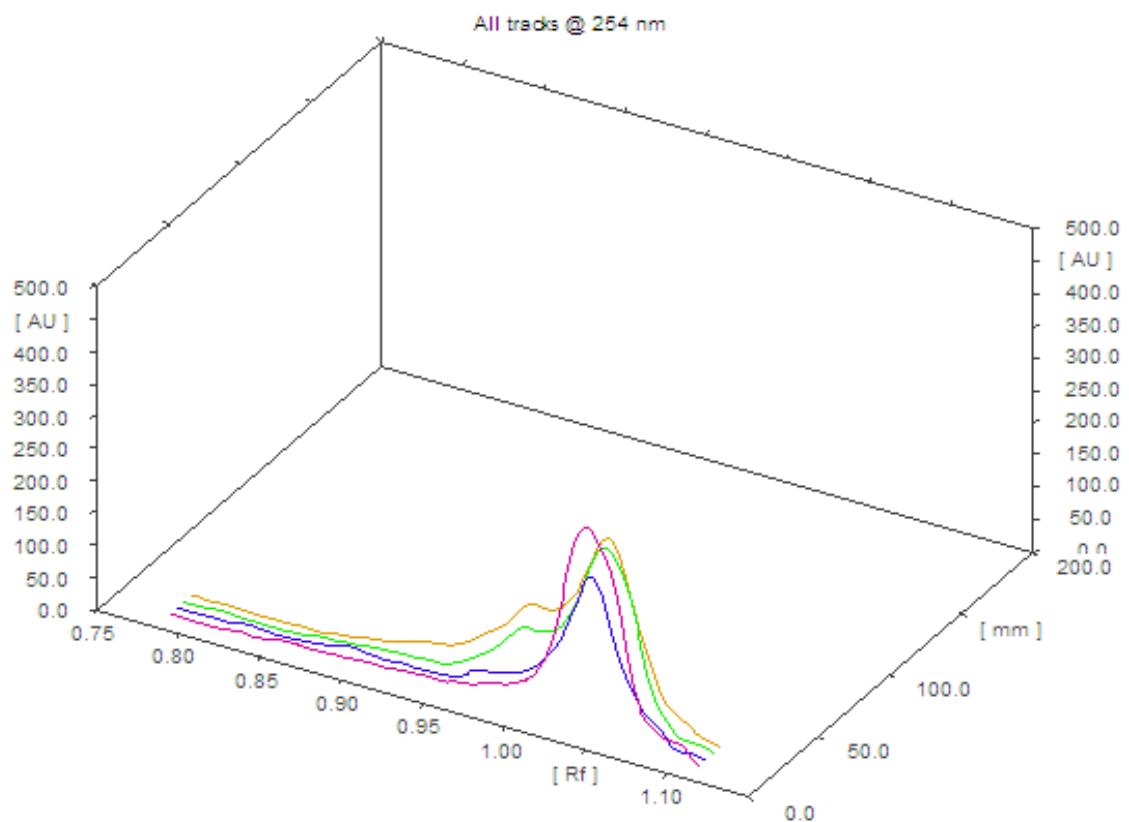
<< Target >>

Line#2 R.Time:56.133(Seqn#6113) MassPeak:277
RawMode:Averaged 56.125-56.142(6112-6114) BasePeak:68.10(834)
BG Mode:Calc. from Peak Group 1 - Event 1





Lampiran 10. Hasil analisis *TLC Scanner*



| Track | Peak | Start Position | Start Height | Max Position | Max Height | Max % | End Position | End Height | Area | Area % | Assigned substance |
|-------|------|----------------|--------------|--------------|------------|----------|--------------|------------|------------|----------|--------------------|
| 1 | 1 | 0.95 Rf | 17.8 AU | 1.04 Rf | 318.1 AU | 100.00 % | 1.09 Rf | 27.5 AU | 13072.3 AU | 100.00 % | unknown * |
| 2 | 1 | 0.95 Rf | 14.6 AU | 1.04 Rf | 231.2 AU | 100.00 % | 1.10 Rf | 2.0 AU | 9818.4 AU | 100.00 % | unknown * |
| 3 | 1 | 0.94 Rf | 19.2 AU | 1.04 Rf | 269.1 AU | 100.00 % | 1.10 Rf | 9.0 AU | 13968.8 AU | 100.00 % | unknown * |
| 4 | 1 | 0.90 Rf | 14.3 AU | 1.00 Rf | 138.7 AU | 33.66 % | 1.00 Rf | 37.0 AU | 5467.6 AU | 33.51 % | unknown * |
| 4 | 2 | 1.01 Rf | 137.4 AU | 1.04 Rf | 273.5 AU | 66.34 % | 1.11 Rf | 5.1 AU | 10850.3 AU | 66.49 % | unknown * |

Lampiran 11. Hasil cek turnitin skripsi

Skripsi Hengki Wijaya Supta

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