**Instituto de Ciencias Forenses**

**Tribunal Superior de Justicia de la Ciudad de México**

# LABORATORIO DE ANATOMÍA PATOLÓGICA

EXAMEN HISTOPATOLÓGICO PRACTICADO EN LAS VÍSCERAS DEL CADÁVER DEL:

**GORILA (BANTÚ)**

PRODUCTOS RECIBIDOS: FRAGMENTOS DE ENCÉFALO, PULMÓN, CORAZÓN, HÍGADO, RIÑÓN Y BAZO

LAS ALTERACIONES OBSERVADAS CORRESPONDEN AL SIGUIENTE:

## RESULTADO

| | |
|---|---|
| **ENCÉFALO CON:** | - DAÑO NEURONAL HIPÓXICO ISQUÉMICO AGUDO<br>- EDEMA Y HEMORRAGIA RECIENTE EN CAPILARES DE SUSTANCIA BLANCA |
| **PULMÓN CON:** | - NEUMONÍA INTERSTICIAL AGUDA MODERADA<br>- EDEMA INTRAALVEOLAR FOCAL<br>- HEMORRAGIA ALVEOLAR RECIENTE LEVE |
| **CORAZÓN CON:** | - HIPERTROFIA DE FIBRAS MIOCÁRDICAS CON FIBROSIS INTERSTICIAL EXTENSA, |
| **RIÑÓN CON:** | - NECROSIS TUBULAR AGUDA<br>- PRESENCIA DE MATERIAL AMORFO EOSINÓFILO EN LUCES TUBULARES COMPATIBLES CON PROTEINURIA<br>- CONGESTIÓN PASIVA DE CAPILARES GLOMERULARES Y PERITUBULARES MODERADA |
| **HÍGADO CON:** | - FIBROSIS HEPÁTICA CENTROPORTAL MODERADA<br>- COLESTASIS INTRACITOPLASMÁTICA MULTIFOCAL<br>- PRESENCIA DE ABUNDANTE PIGMENTO CAFÉ OSCURO COMPATIBLE CON HEMOSIDERINA EN SINUSOIDES (HEMOSIDEROSIS) |
| **BAZO CON:** | - DEPLECIÓN LINFOIDE EXTENSA |

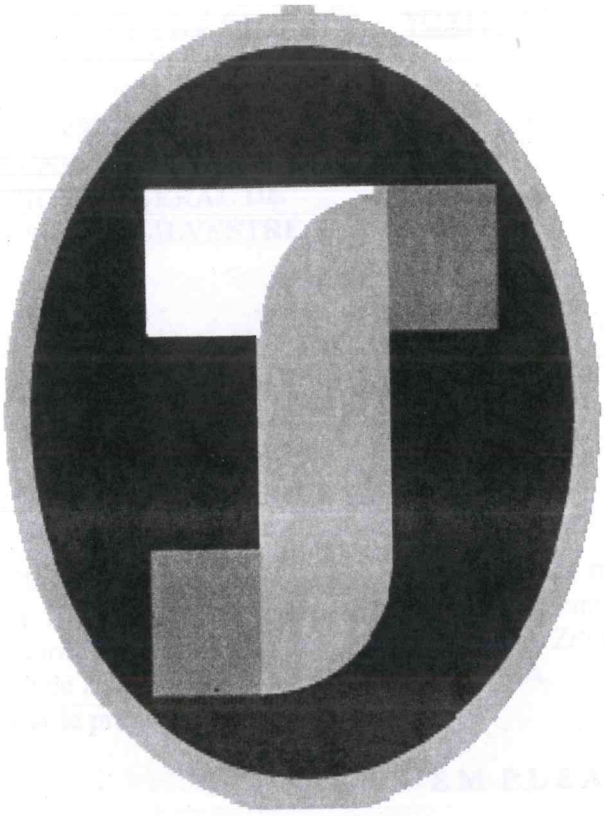
A T E N T A M E N T E

**CIUDAD DE MÉXICO, A 28 DE JULIO DE 2016**

**DR. FERNANDO GARCÍA DOLORES**
**PERITO PATÓLOGO FORENSE**

TRIBUNAL SUPERIOR DE JUSTICIA DEL DISTRITO FEDERAL
ESTADOS UNIDOS MEXICANOS
MEXICO

INSTITUTO DE CIENCIAS FORENSES
TSJDF
DIRECCIÓN



# Instituto de Ciencias Forenses
## Laboratorio Químico Toxicológico

# RESULTADOS

**Tribunal Superior de Justicia de la Ciudad de México**
**Instituto de Ciencias Forenses**

**LABORATORIO DE QUIMICO - TOXICOLOGICO**

**MVZ FERNANDO CORTEZ VILLAVICENCIO**
**DIRECTOR TECNICO Y DE INVESTIOGACION**
**EN LA DIRECCION GENERAL DE**
**ZOOLOGICOS Y VIDA SILVESTRE**
**P R E S E N T E**

El que suscribe, perito en materia de Química Forense, designado para intervenir con relación la solicitud de análisis realizada mediante oficio número OF/SDENA/DGZVSS/DTI/667/2016 de fecha 9 de julio de 2016 ante usted rinden el siguiente:

## RESULTADO

**Problema Planteado**.- realizar análisis químico de las muestras biológicas (Cerebro, Pulmón, Corazón, Hígado, Riñón, Sangre, Bazo, Suero y Humor vítreo) pertenecientes a un ejemplar 1.0.0 Gorila de tierras bajas Perteneciente al Zoológico de Chapultepec de la Dirección General de Zoológicos y Vida Silvestre SEDEMA
a fin de determinar la presencia de fármacos.

## T E C N I C A S E M P L E A D A S

1.- CROMATOGRAFIA DE GASES ACOPLADO A ESPECTROMETRIA DE MASAS
2.-CROMATOGRAFIA DE LIQUIDOS DE ALTA RESOLUCION

## R E S U L T A D O S

A la muestra biológica **CEREBRO** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.
B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

A la muestra biológica **PULMÓN** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.
B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

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**LABORATORIO DE QUIMICO - TOXICOLOGICO**

A la muestra biológica **CORAZÓN** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

A la muestra biológica **HÍGADO** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

A la muestra biológica **RIÑÓN** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

A la muestra biológica **SANGRE** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

A la muestra biológica **BAZO** se le efectúo:

A).- Extracciones con solventes orgánicos y a los extractos obtenidos se les realizo Cromatografía de gases acoplado a espectrómetro de masas obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

B) .-Cromatografía de Líquidos de Alta resolución obteniendo resultados **NEGATIVOS** para la presencia de Fármacos.

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**LABORATORIO DE QUIMICO - TOXICOLOGICO**

A la muestra biológica **SUERO** se le efectúo:

A) Cromatografía de Líquidos de Alta resolución obteniendo resultados **POSITIVOS** para la presencia **ZOLAZEPAM** en una concentración de 6.4 Microgramos/mililitro y de **TILETAMINA** en una concentración de 2.7 Microgramos/mililitro

A la muestra biológica **HUMOR VÍTREO** se le efectúo:

A).-Cromatografía de Líquidos de Alta resolución obteniendo resultados **POSITIVOS** para la presencia **ZOLAZEPAM** en una concentración de 0.089 Microgramos/mililitro

Con base a lo antes expuesto se formula las siguientes.

## C O N C L U S I O N E S

**UNO** .- En las muestras biológicas (**SUERO Y HUMOR VITREO** ) **SI SE** identifico la presencia de **ZOLAZEPAM** en las concentraciones referidas en el apartado de resultados.
**DOS** .- En la muestra biológica (**SUERO**) **SI SE** identifico la presencia de **TILETAMINA** en las concentraciones referidas en el apartado de resultados.
**TRES**.- En las muestras biológicas (**CEREBRO, PULMÓN, CORAZÓN, HÍGADO, RIÑÓN, SANGRE Y BAZO**) se obtuvieron resultados negativos para Fármacos.

A T E N T A M E N T E
México, D.F. A 27 de Julio de 2016.
El. C. PERITO QUIMICO

Q.F.B. JOSE LUIS DOMINGUEZ RODRIGUEZ.

TRIBUNAL SUPERIOR DE JUSTICIA DEL DISTRITO FEDERAL
ESTADOS UNIDOS MEXICANOS
MEXICO

INSTITUTO DE CIENCIAS FORENSES
TSJDF
DIRECCIÓN

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Instrument : Instrument #1
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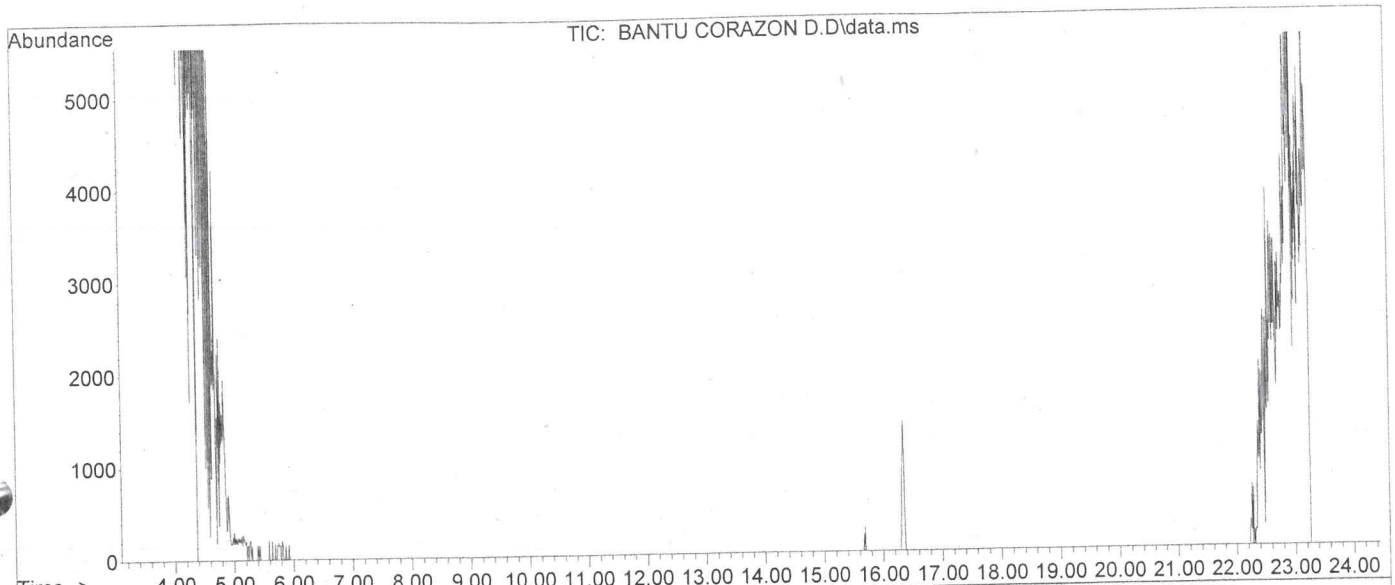
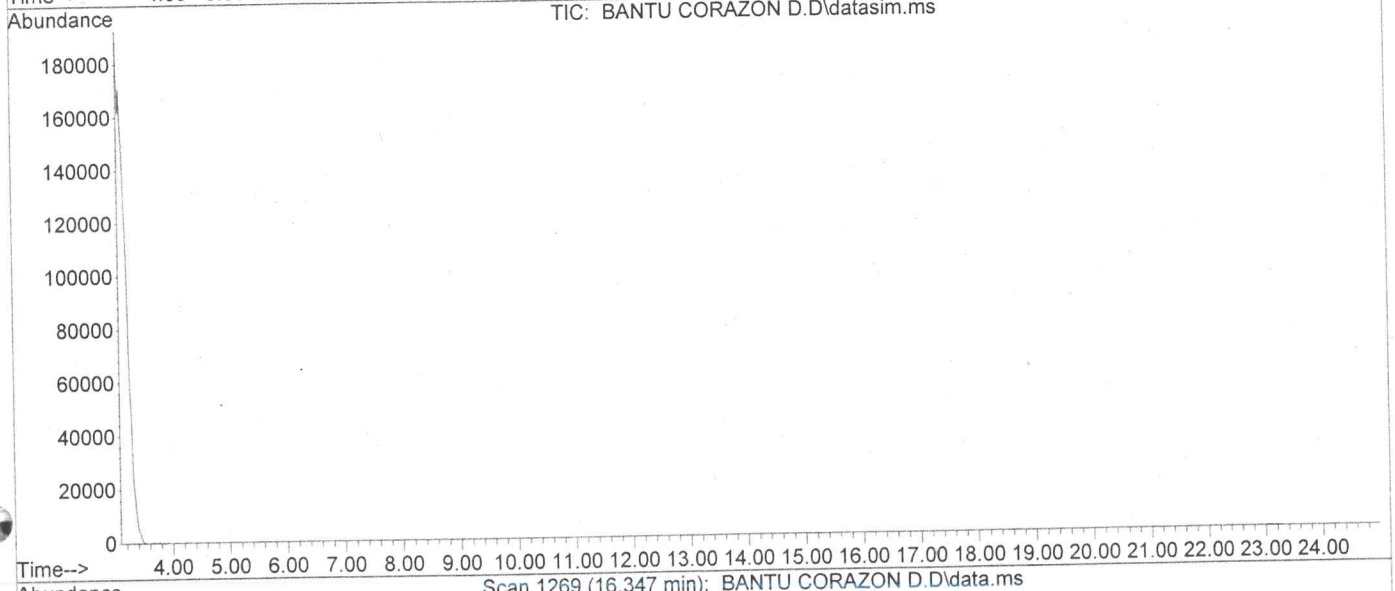
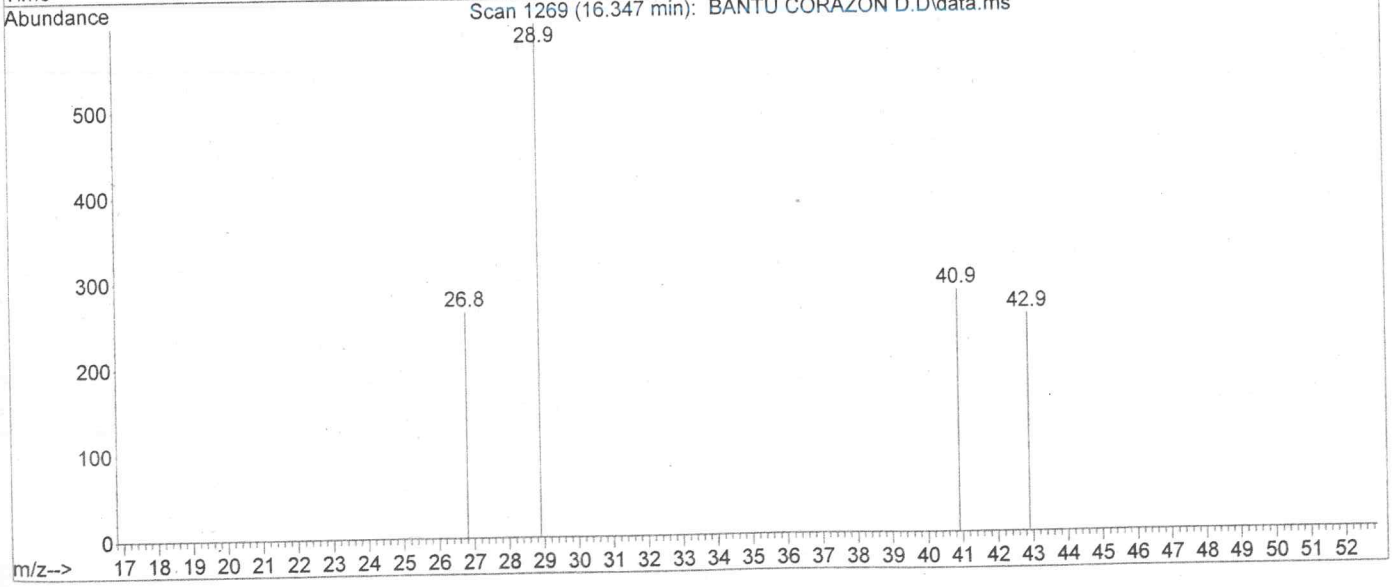
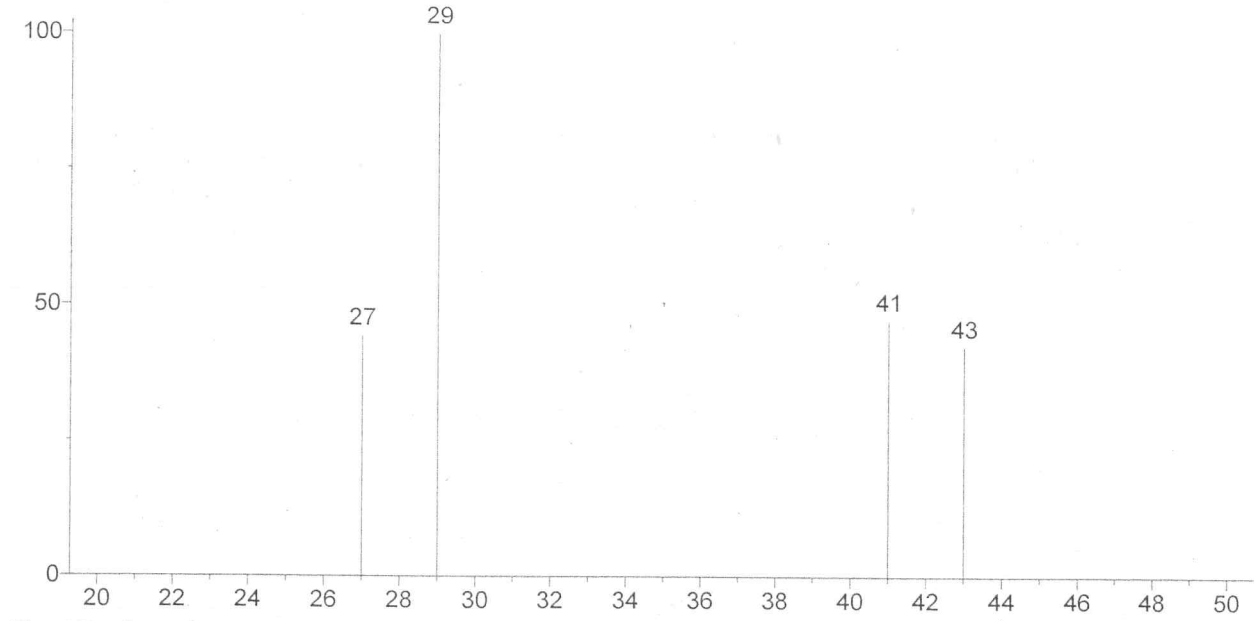
Vial Number: 1



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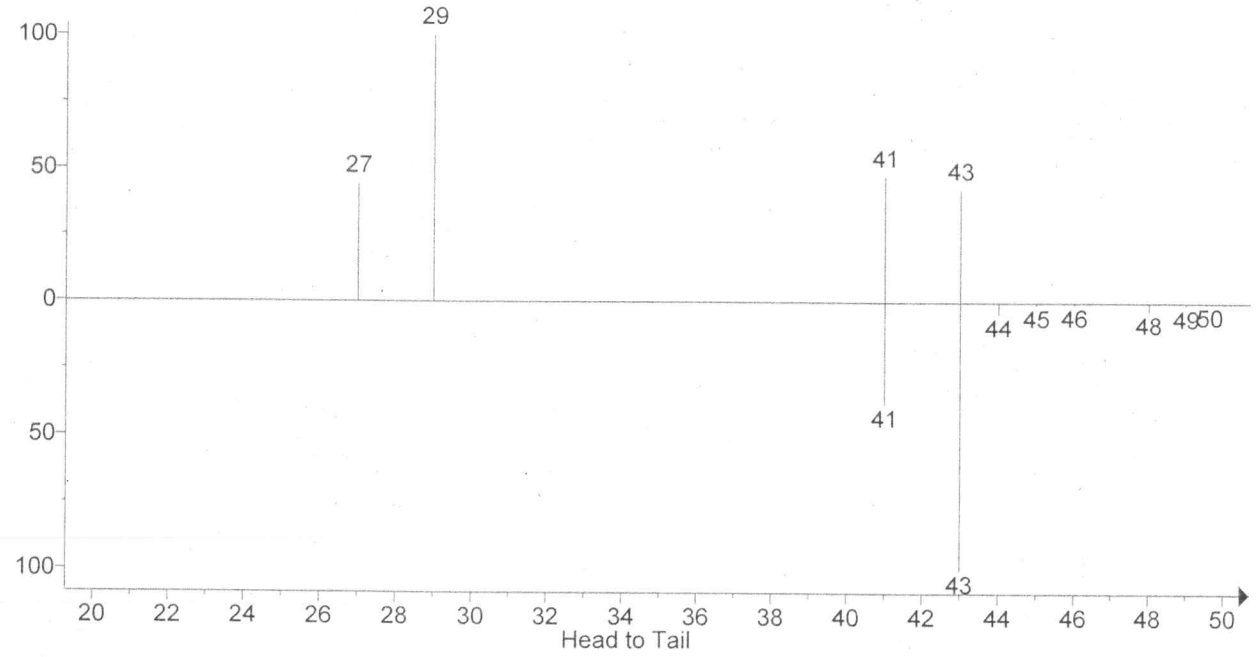


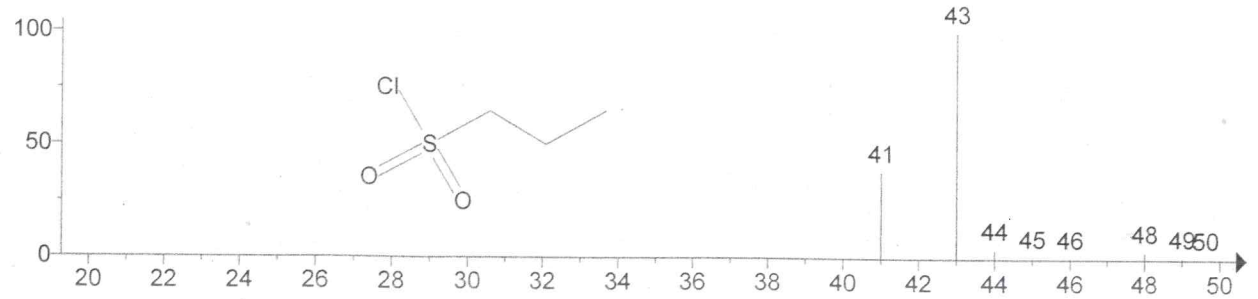


(replib) 1-Propanesulfonyl chloride

Name: 1-Propanesulfonyl chloride
Formula: $C_3H_7ClO_2S$
MW: 142 CAS#: 10147-36-1 NIST#: 132777 ID#: 1634 DB: replib
Other DBs: Fine, TSCA, HODOC, EINECS
Contributor: H. Fales, LC, NHLBI, NIH, Bethesda, MD 20892
10 largest peaks:
43 999 | 41 381 | 44 41 | 48 31 | 64 28 | 107 23 | 60 14 | 83 11 | 49 8 | 57 8 |
Synonyms:
1.Propane-1-sulfonyl chloride

Estimated Kovats RI:
Value: 1002 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

File : D:\JLDR\Julio 2016\ BANTU CORAZON D.D
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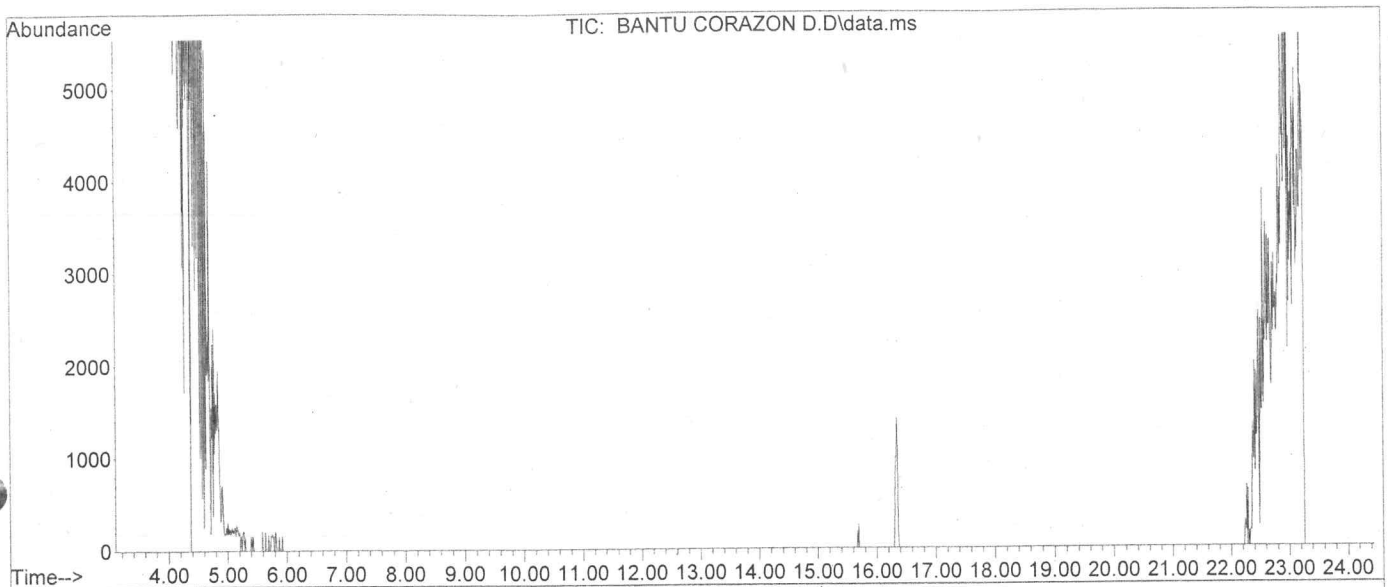
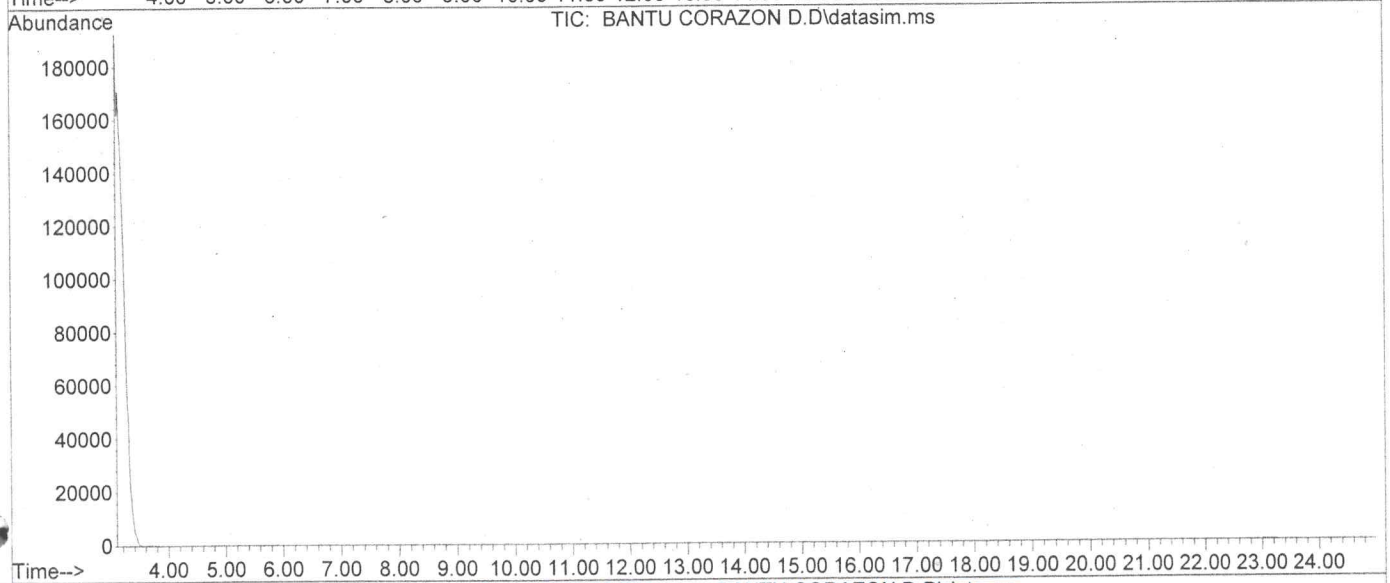
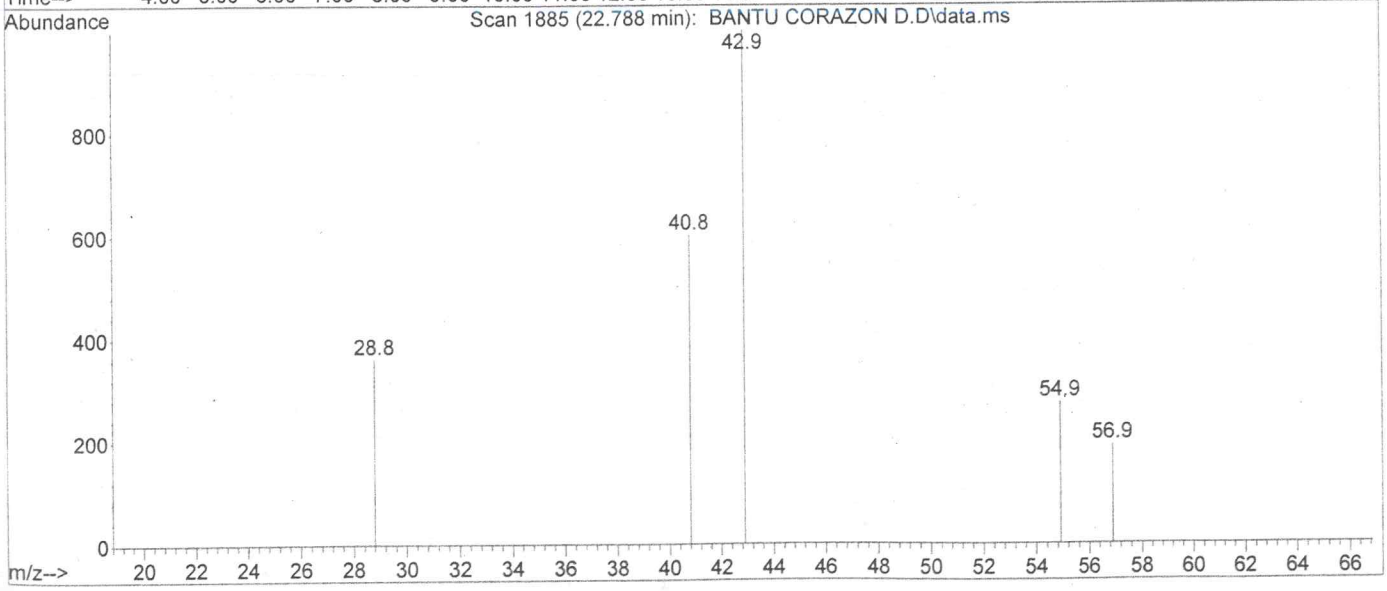
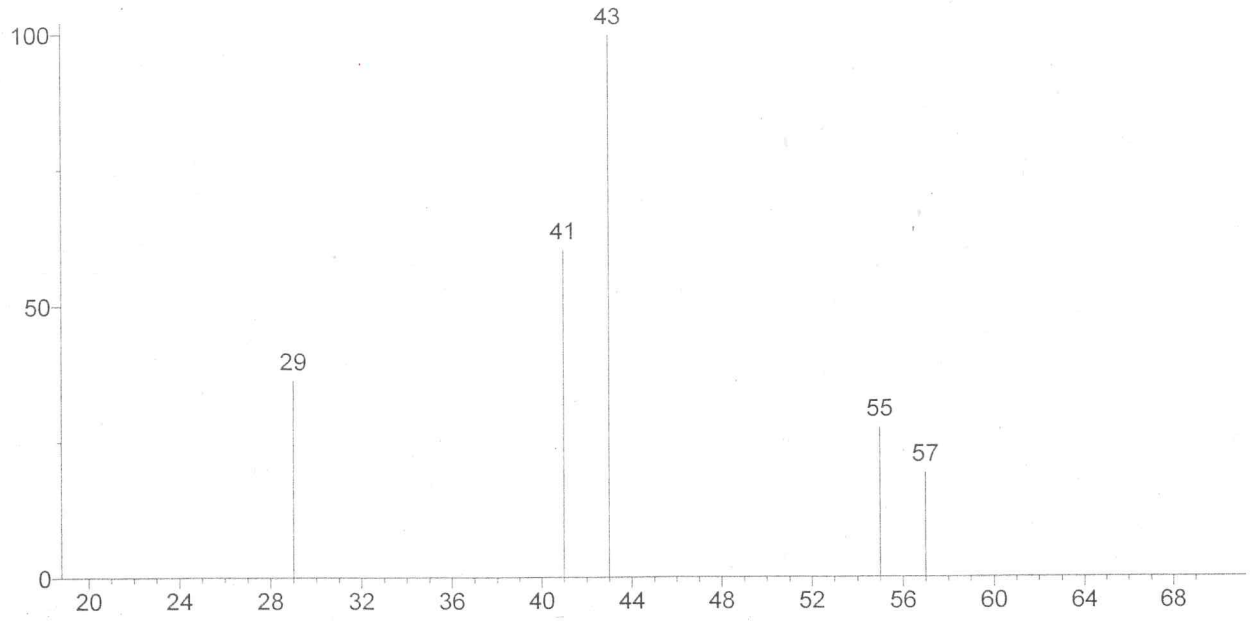
Instrument : Instrument #1
Sample Name: BANTU CORAZON
Misc Info :
Vial Number: 1



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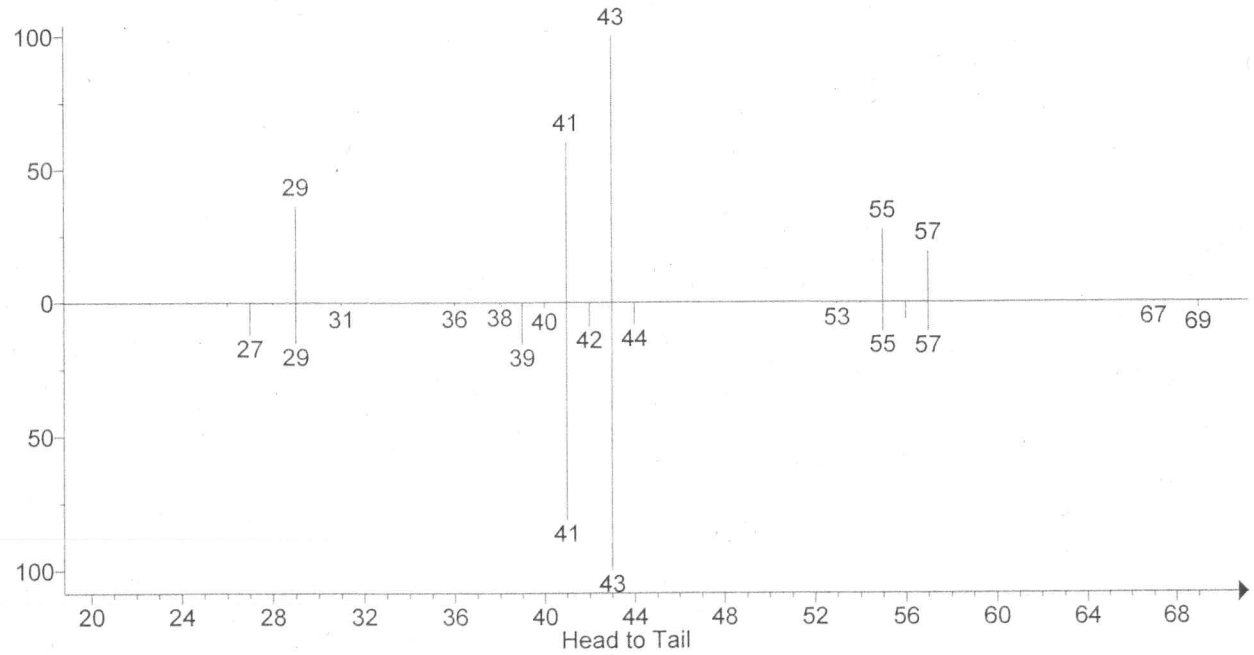


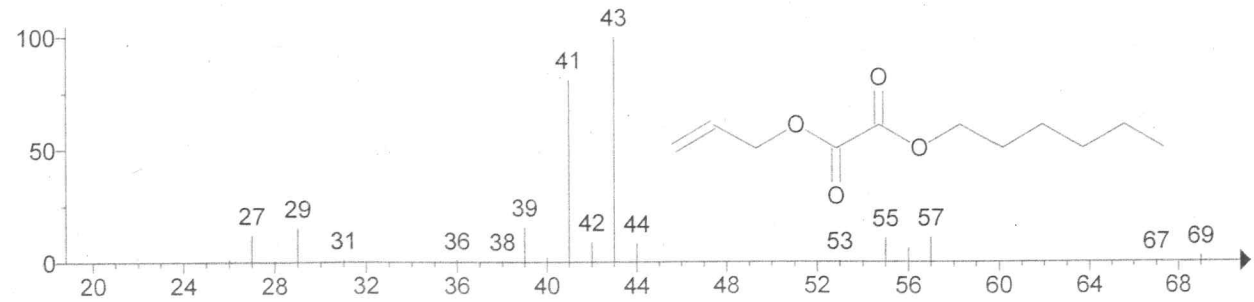


(mainlib) Oxalic acid, allyl hexyl ester

Name: Oxalic acid, allyl hexyl ester
Formula: $C_{11}H_{18}O_4$
MW: 214 CAS#: N/A NIST#: 309234 ID#: 5231 DB: mainlib
Other DBs: None
Contributor: V.G. Zaikin, R.S.Borisov, TIPS RAS, Moscow, Russia
10 largest peaks:
43 999 | 41 811 | 39 156 | 29 152 | 27 121 | 57 110 | 55 107 | 42 90 | 44 84 | 85 64 |
Synonyms:
no synonyms.

Estimated Kovats RI:
Value: 1439 iu
Confidence interval (Esters): 47(50%) 201(95%) iu

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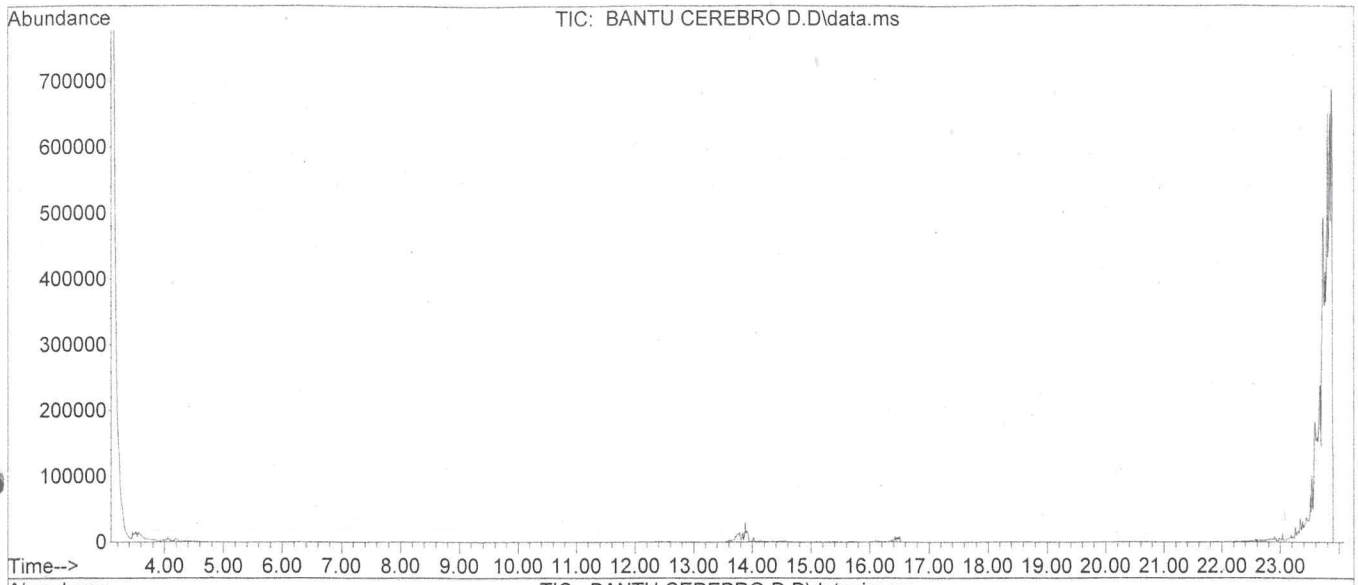


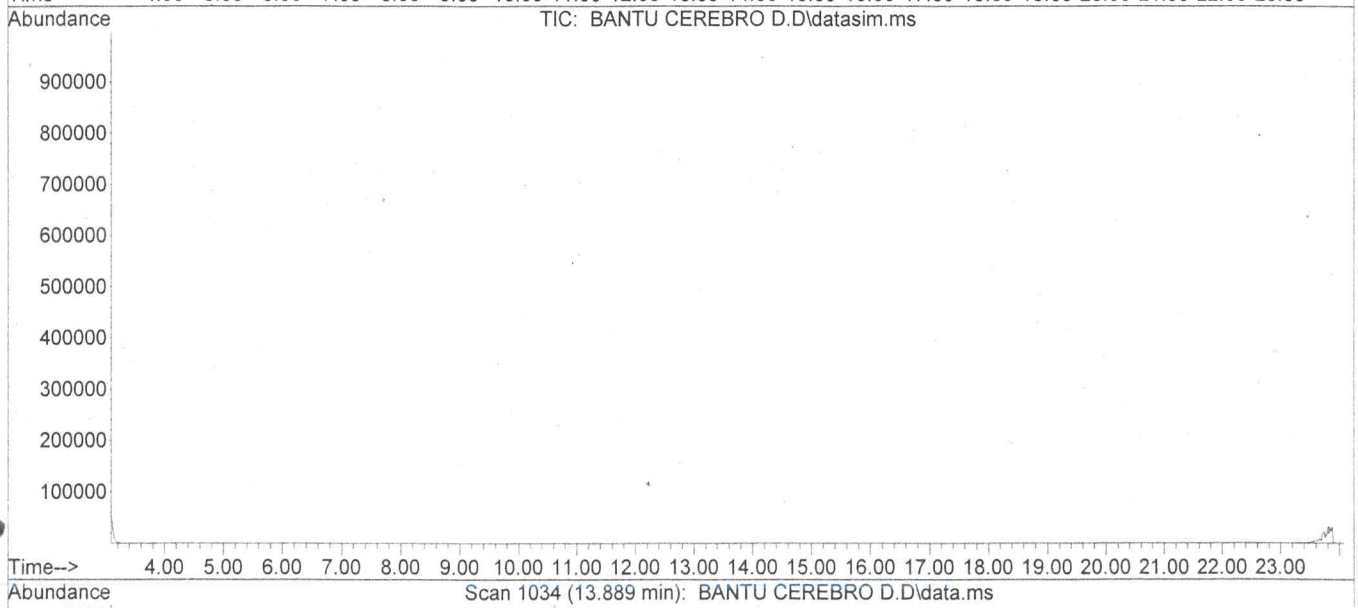


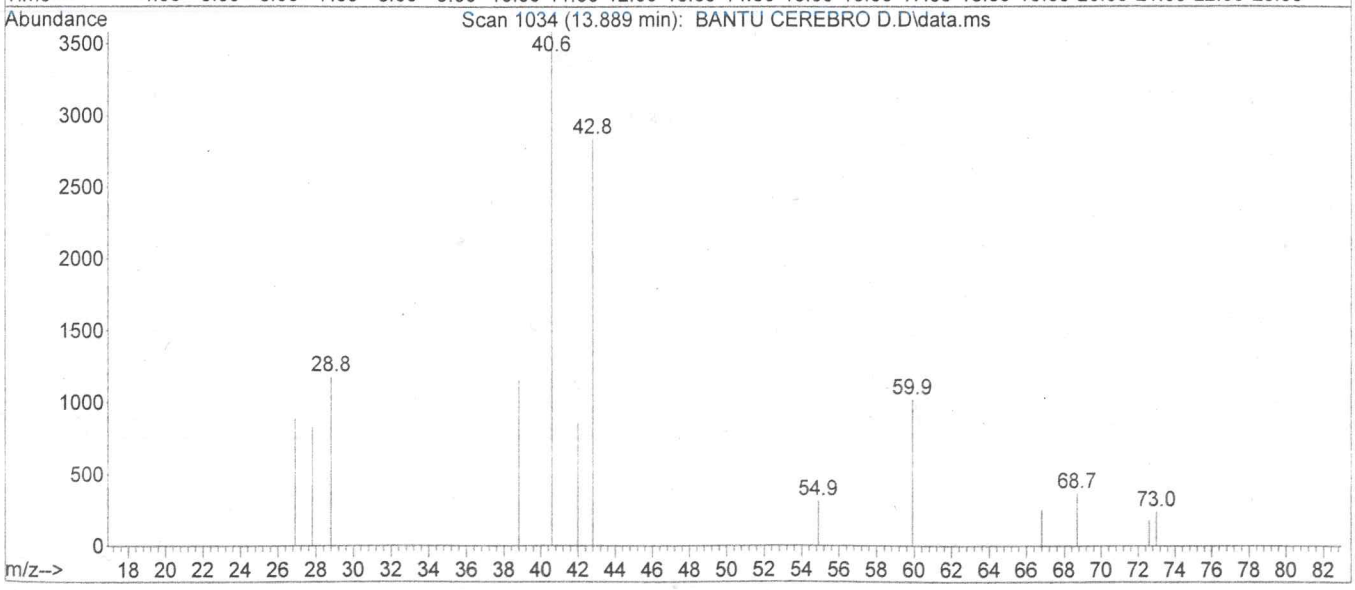

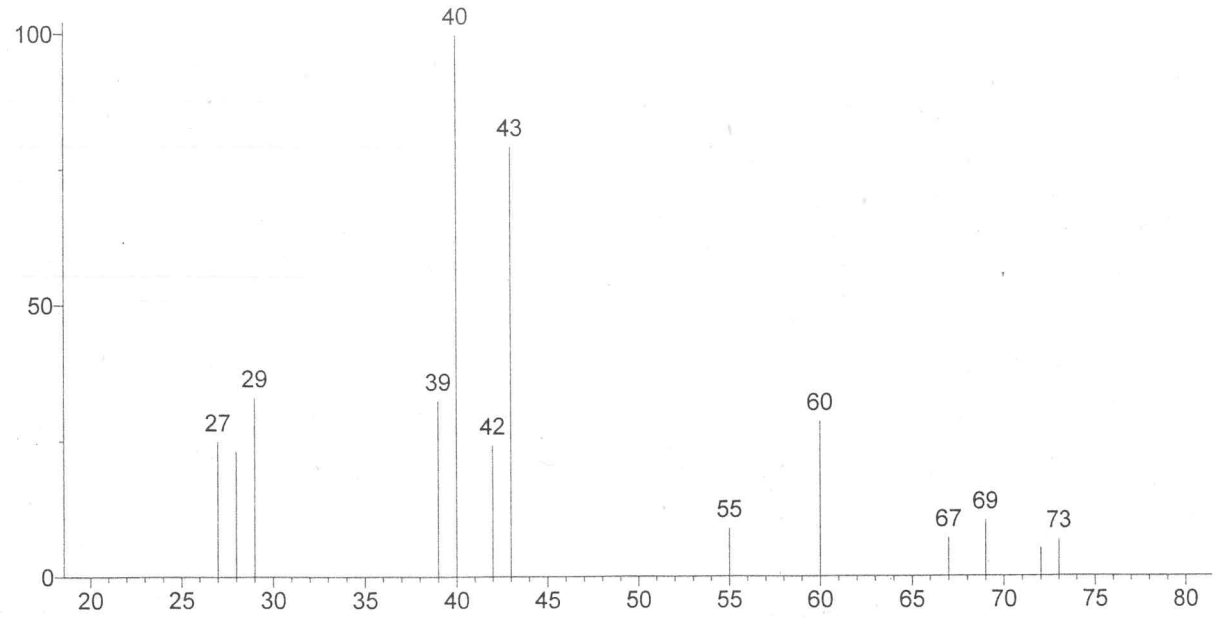


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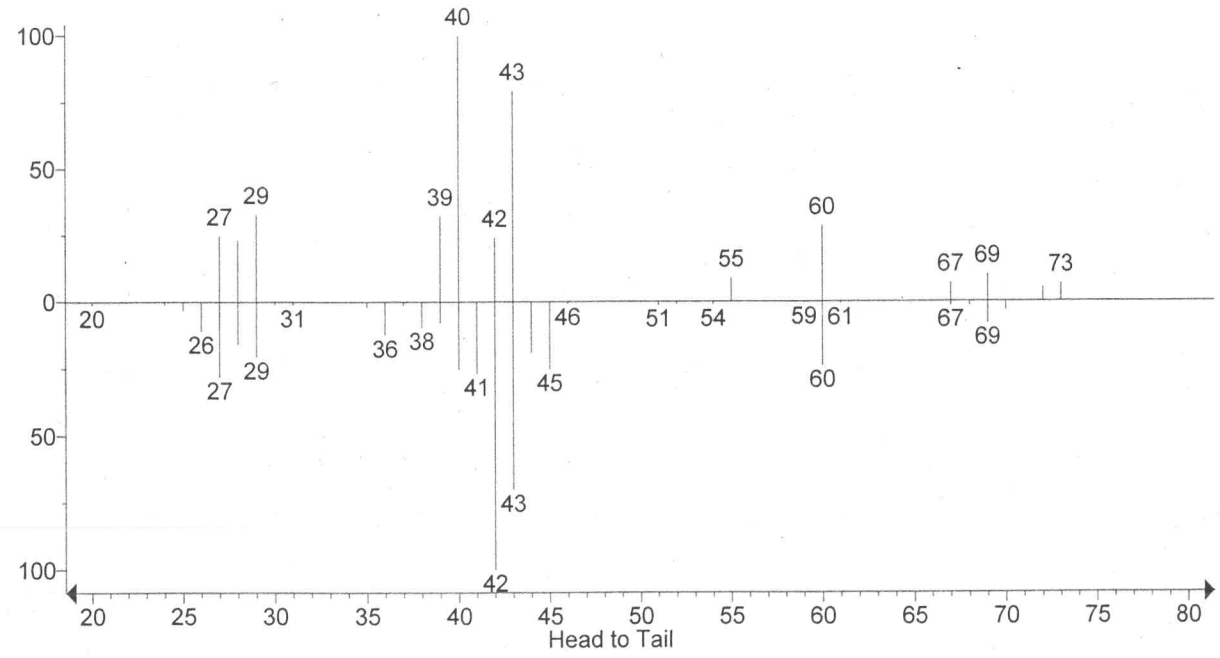


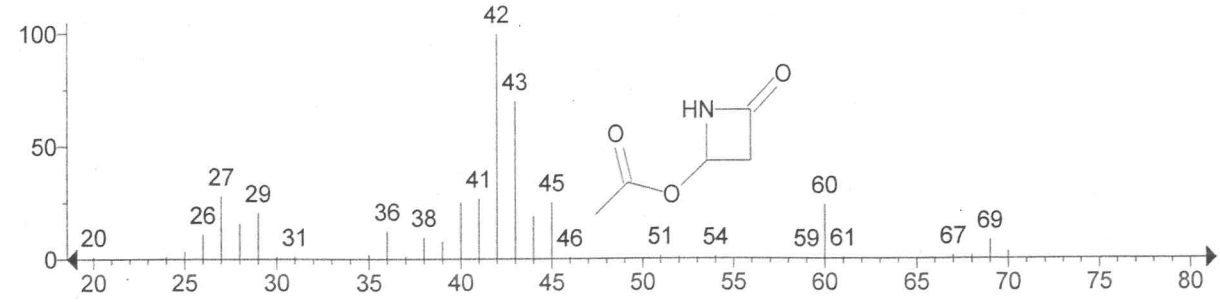


(mainlib) 4-Acetoxy-2-azetidinone

Name: 4-Acetoxy-2-azetidinone
Formula: $C_5H_7NO_3$
MW: 129 CAS#: 28562-53-0 NIST#: 108386 ID#: 4051 DB: mainlib
Other DBs: Fine, EINECS
Contributor: Chuck Anderson, Aldrich Chemical Co.
10 largest peaks:
42 999 | 43 700 | 27 280 | 41 268 | 40 253 | 45 251 | 60 240 | 29 206 | 44 189 | 14 175 |
Synonyms:
1.2-Azetidinone, 4-(acetyloxy)-
2.4-Oxo-2-azetidinyl acetate #

Estimated Kovats RI:
Value: 971 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

File :D:\JLDR\Julio 2016\ BANTU CEREBRO D.D
Operator :
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Instrument : Instrument #1
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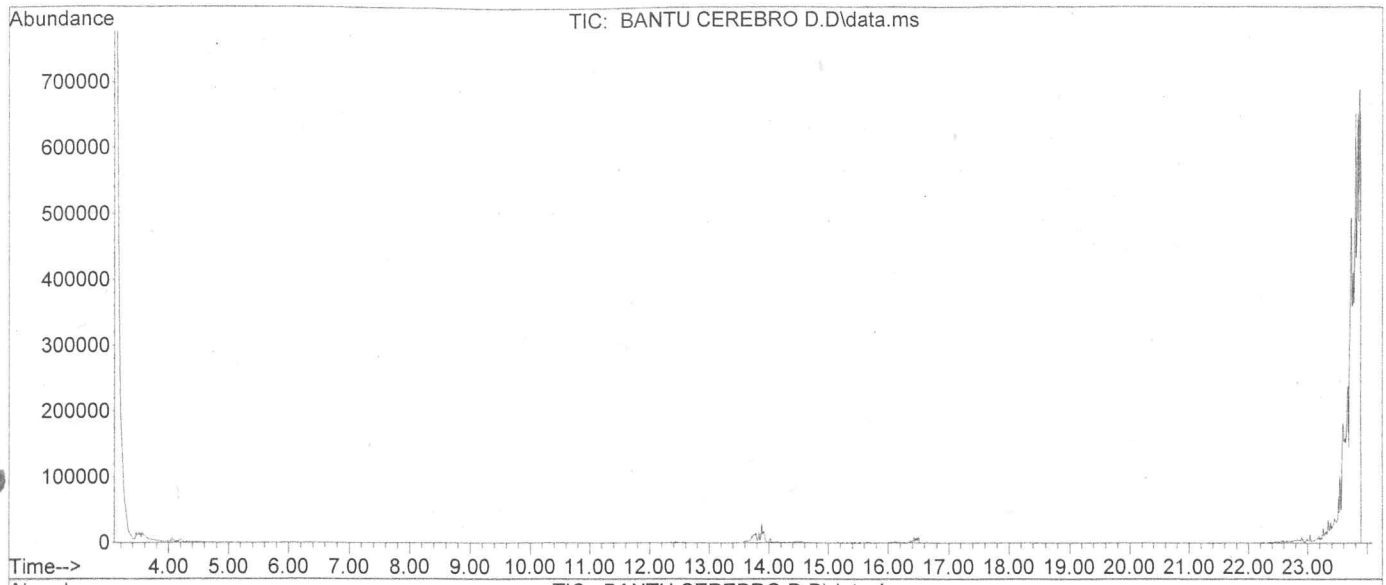



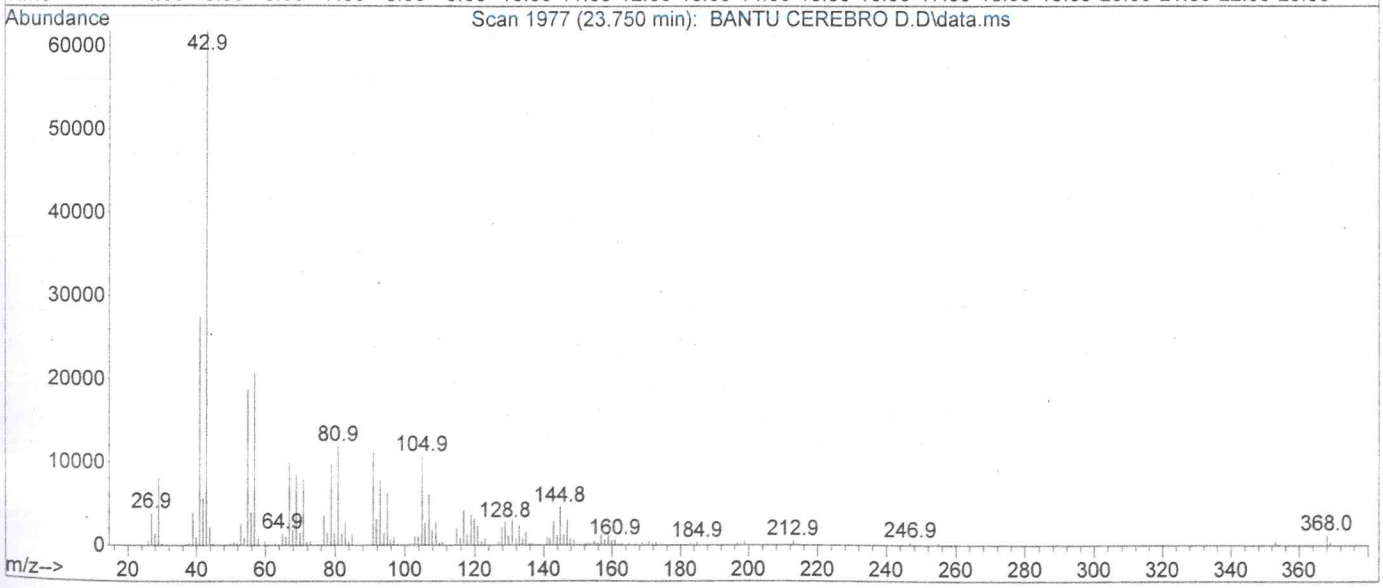

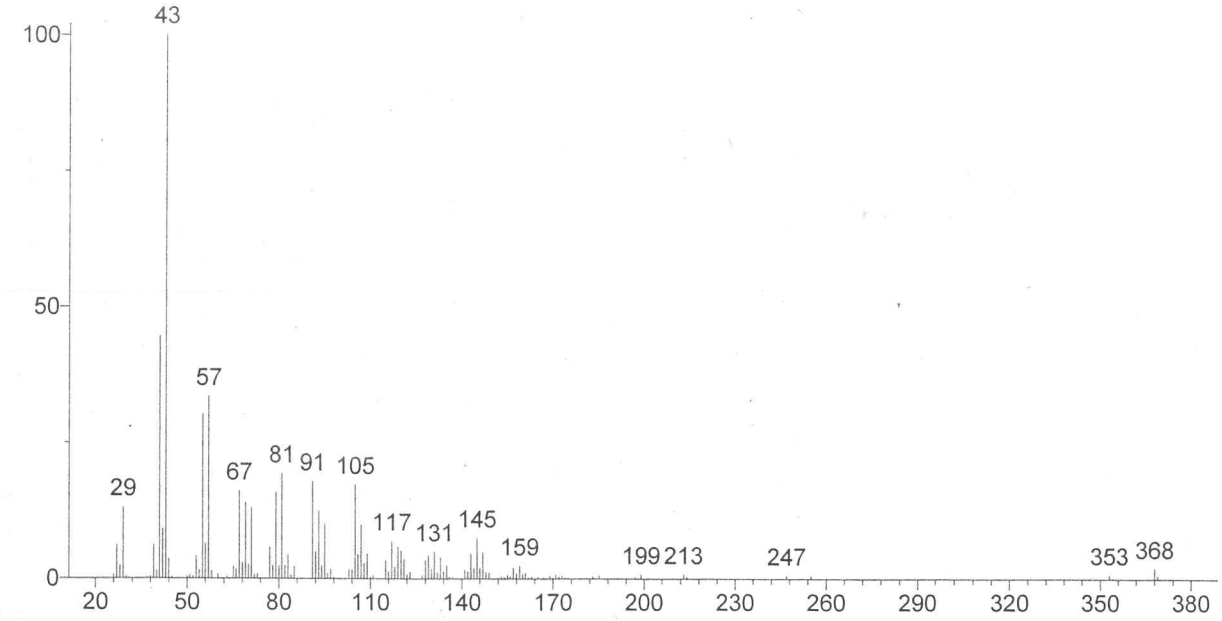


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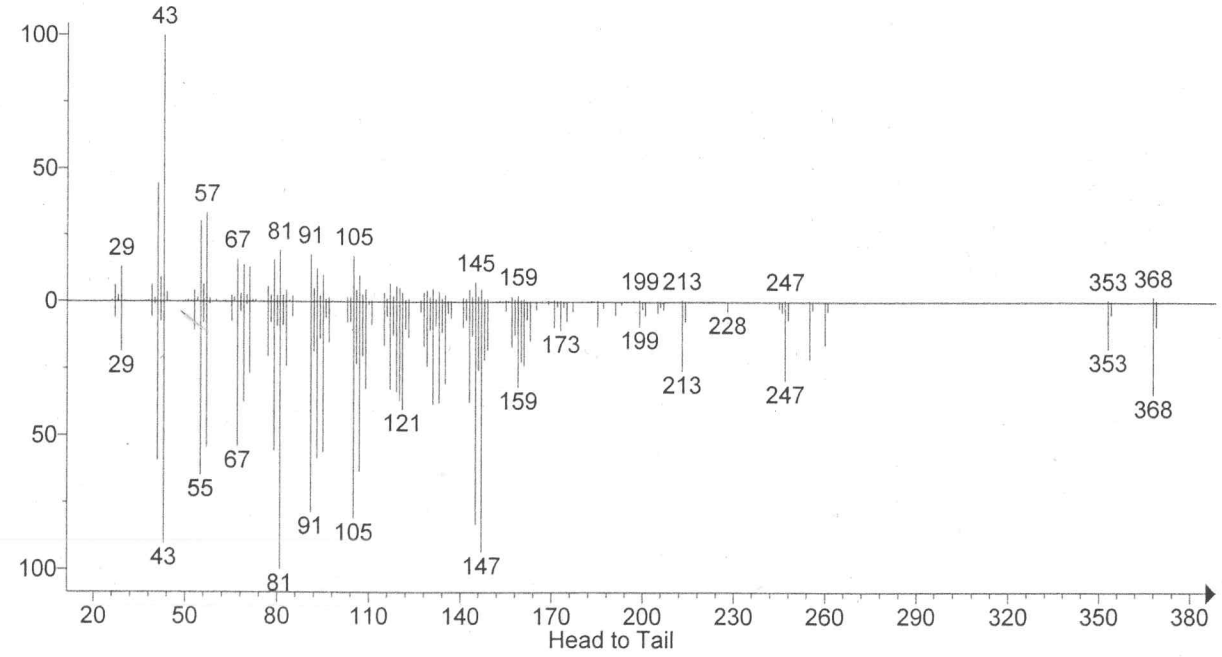


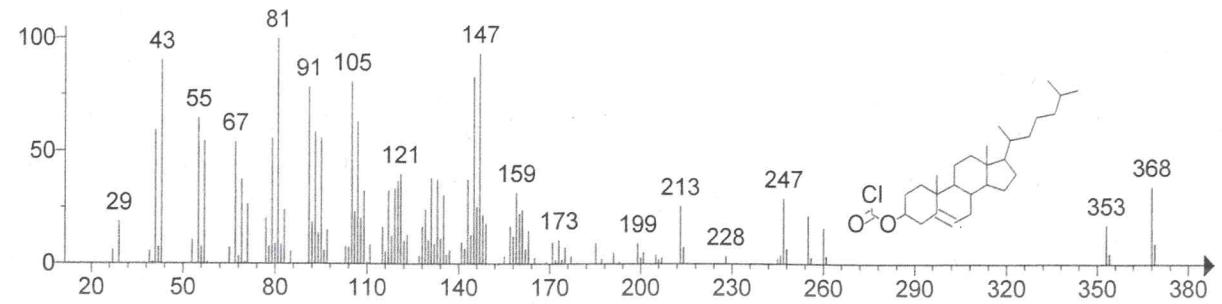


(replib) Cholest-5-en-3-ol (3.beta.)-, carbonochloridate

Name: Cholest-5-en-3-ol (3.beta.)-, carbonochloridate
Formula: $C_{28}H_{45}ClO_2$
MW: 448 CAS#: 7144-08-3 NIST#: 75277 ID#: 10011 DB: replib
Other DBs: Fine, TSCA, NIH, EINECS
Contributor: RADIAN CORP
10 largest peaks:
81 999 | 147 933 | 43 902 | 145 830 | 105 809 | 91 785 | 55 646 | 107 633 | 41 593 | 93 585 |
Synonyms:
1.Cholesterol, chloroformate
2.Cholesteryl chloroformate
3.Cholesteryloxycarbonyl chloride
4.Cholest-5-en-3-yl chloridocarbonate #

Estimated Kovats RI:
Value: 2813 iu
Confidence interval (Low reliability): 174(50%) 752(95%) iu

File : D:\JLDR\Julio 2016\ BANTU OJO D.D
Operator :
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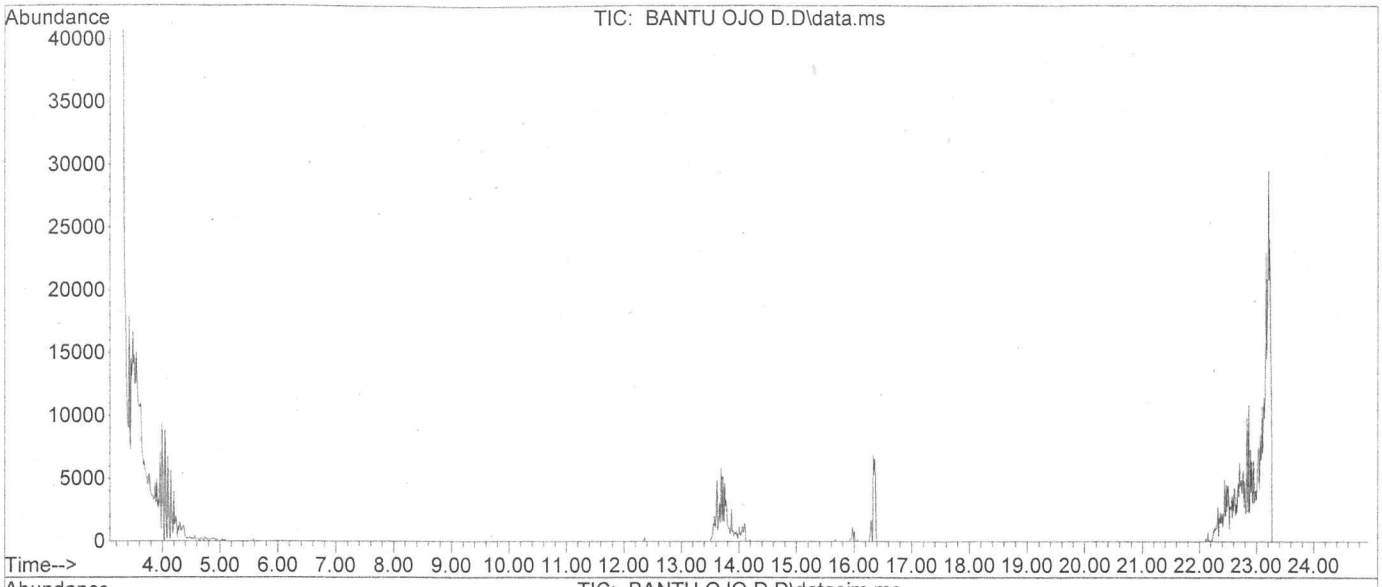
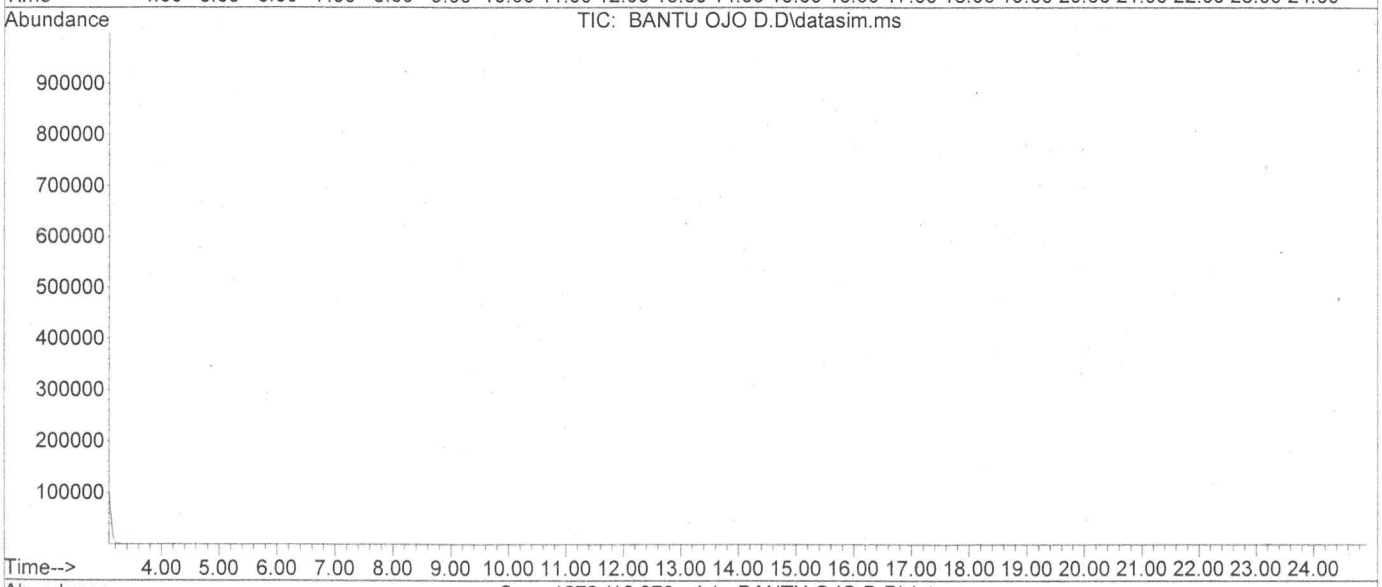
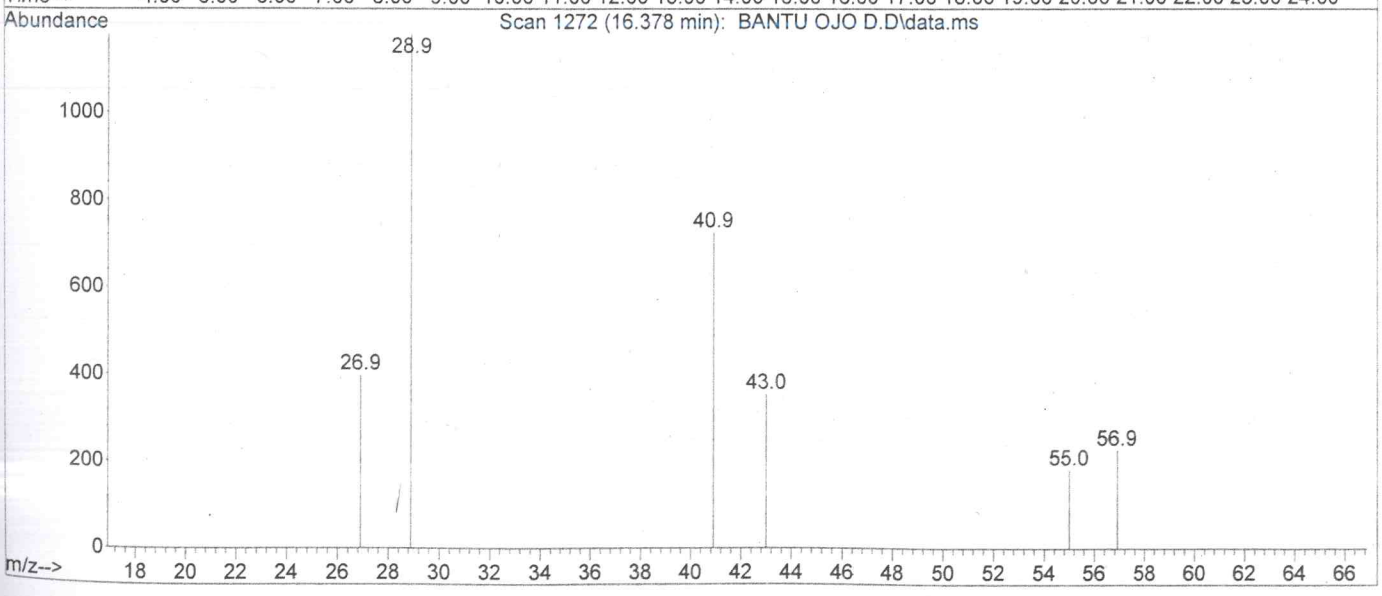
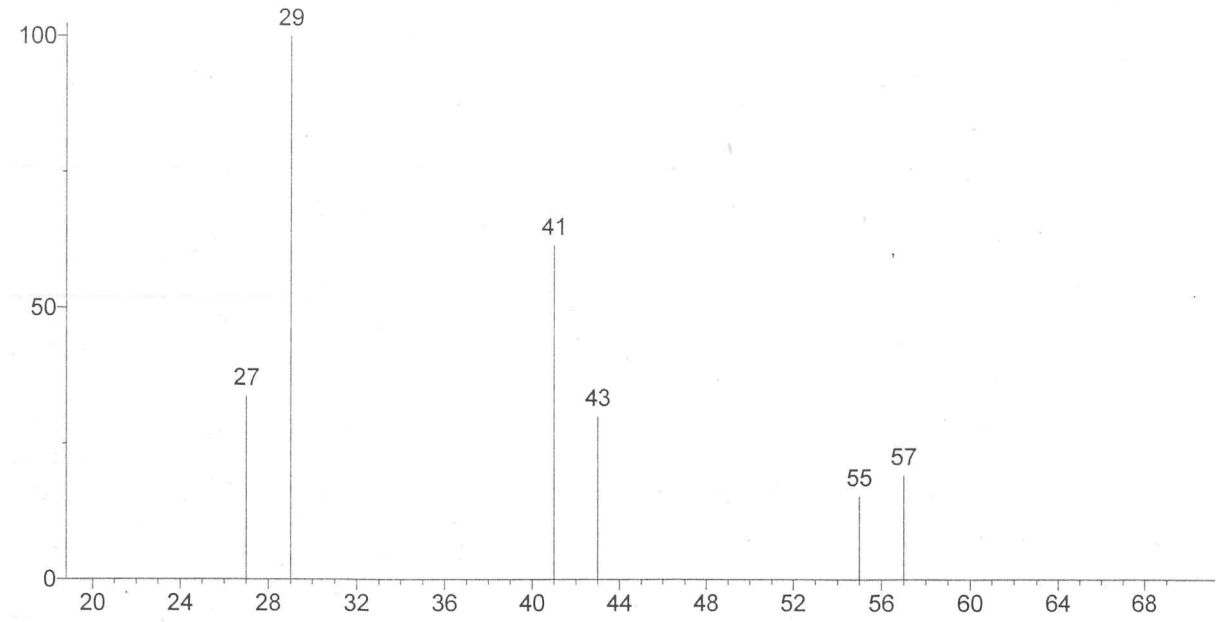
Sample Name: BANTU OJO
Misc Info :
Vial Number: 1



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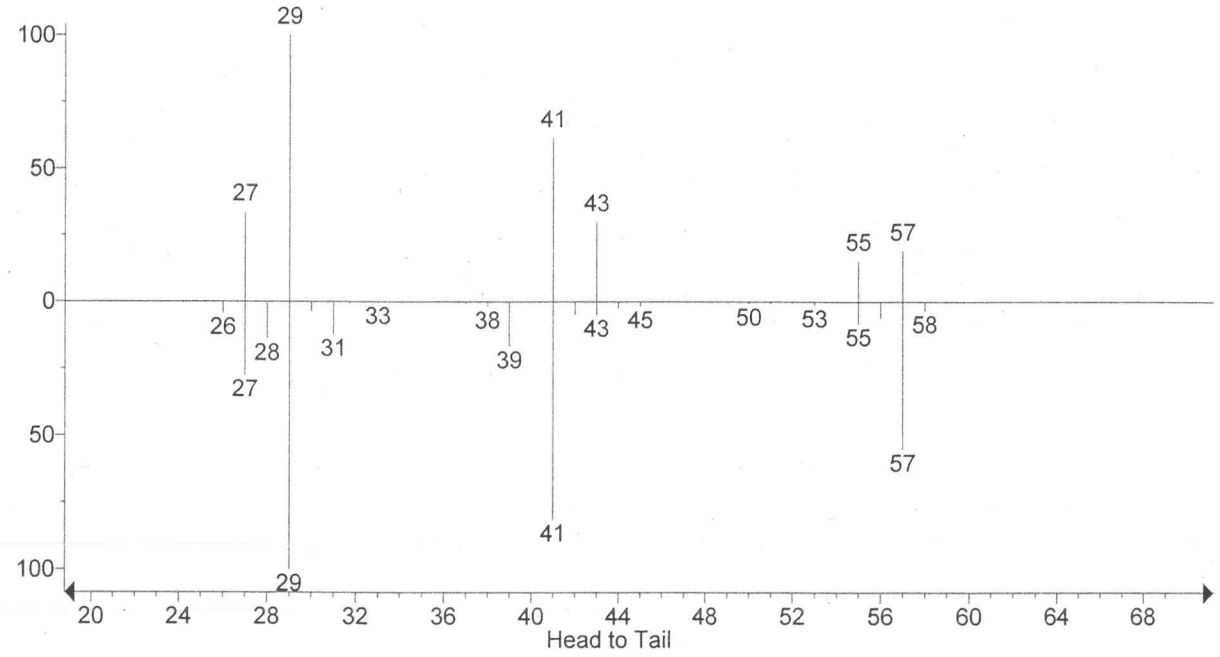
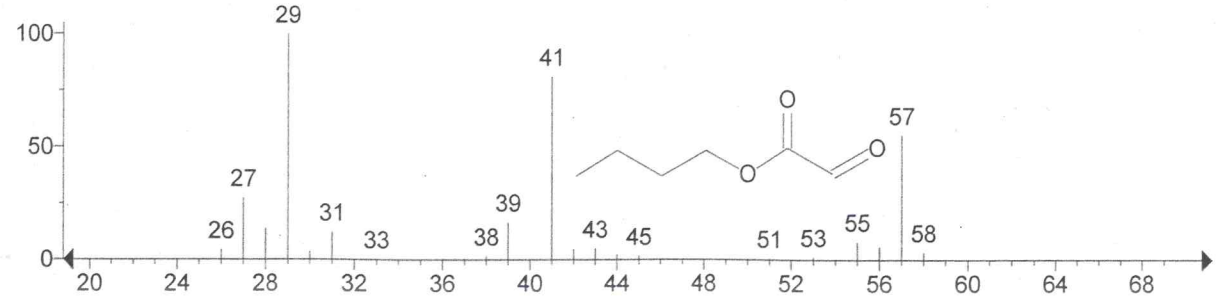



Head to Tail

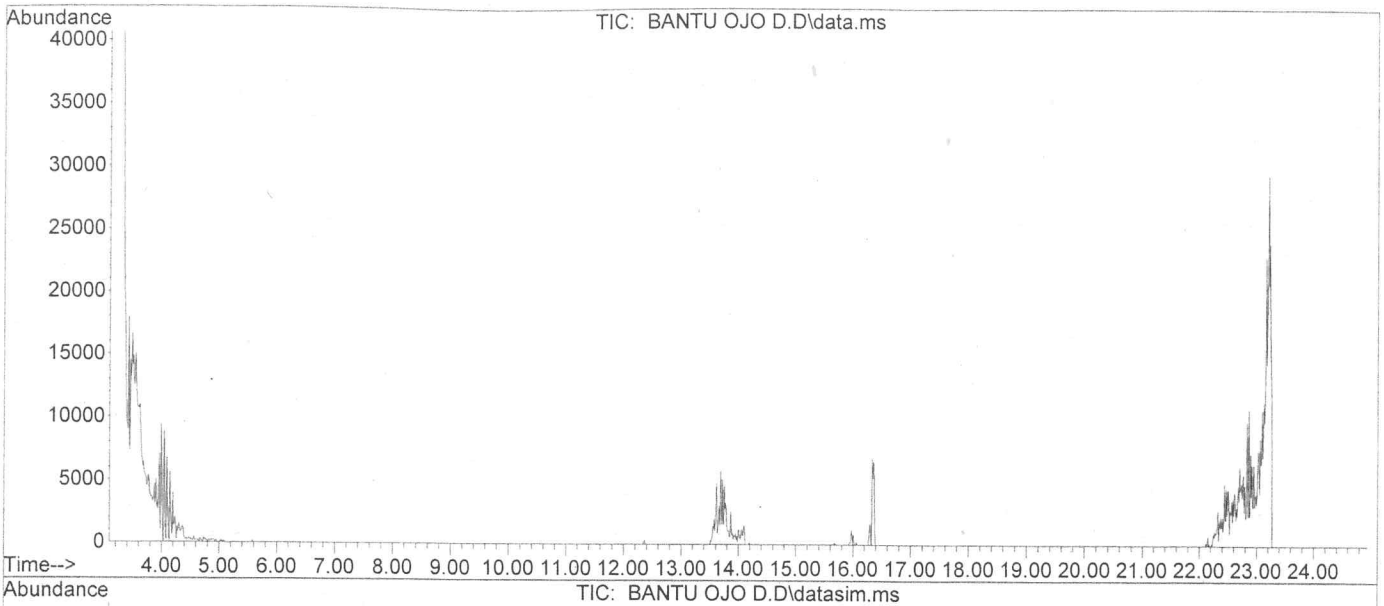


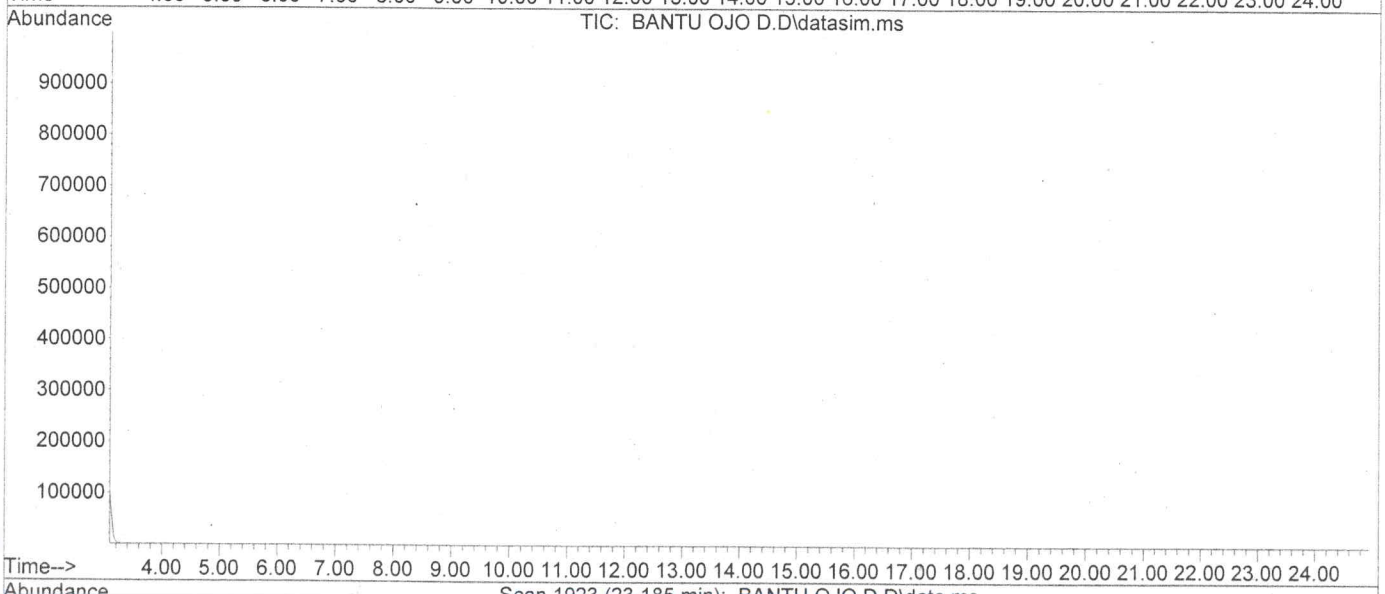

(mainlib) Butyl glyoxylate

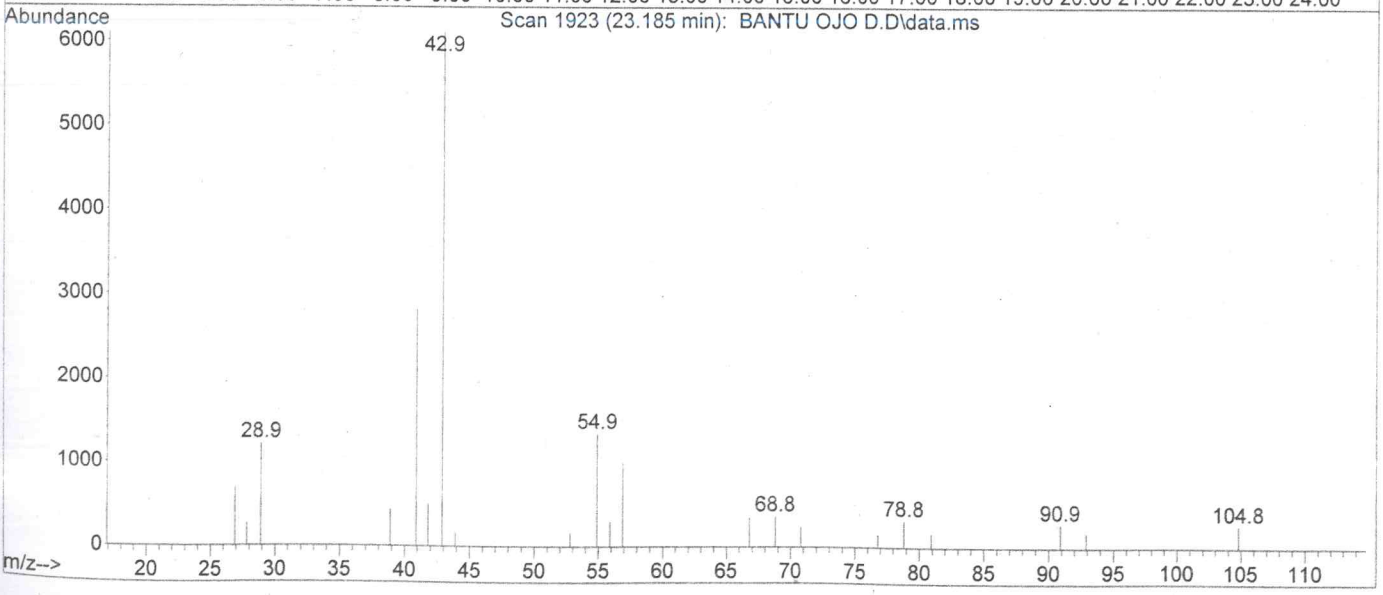
Name: Butyl glyoxylate
Formula: $C_6H_{10}O_3$
MW: 130 CAS#: 6295-06-3 NIST#: 125085 ID#: 442 DB: mainlib
Other DBs: Fine, TSCA, NIH, EINECS, IRDB
Contributor: NIST Mass Spectrometry Data Center, 1992
10 largest peaks:
29 999 | 41 812 | 57 551 | 27 274 | 39 166 | 28 139 | 31 122 | 55 81 | 56 59 | 43 49 |
Synonyms:
1.Acetic acid, oxo-, butyl ester
2.Butyl glyoxalate
3.Butyl oxoacetate
4.Glyoxylic acid, butyl ester

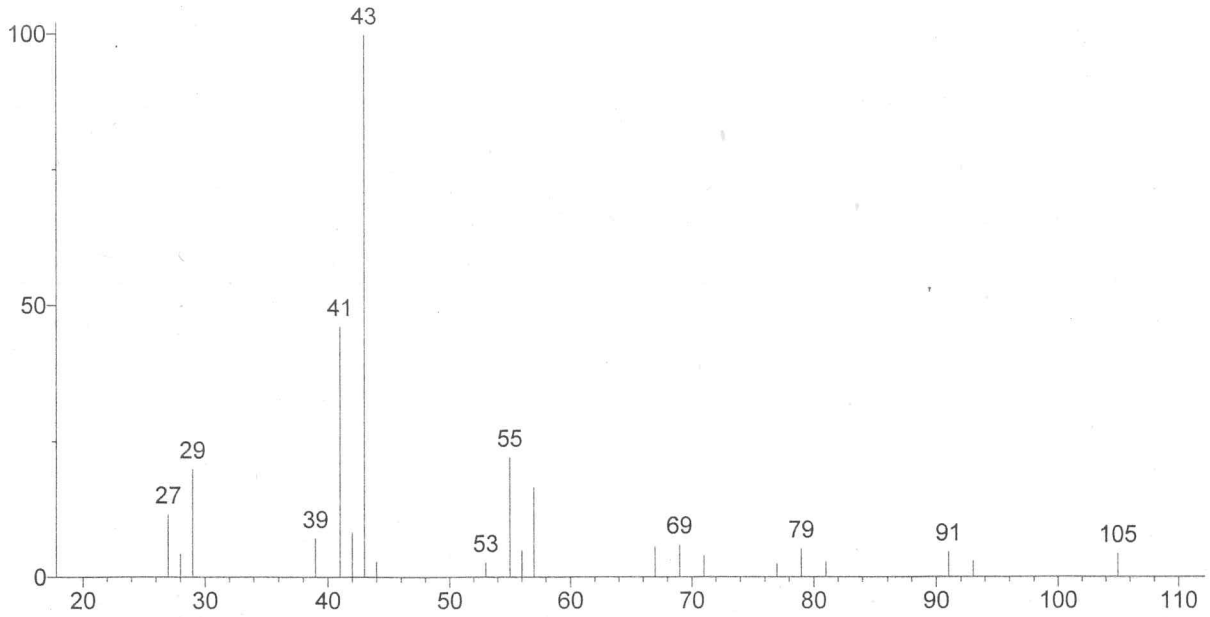
Estimated Kovats RI:
Value: 973 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

File :D:\JLDR\Julio 2016\ BANTU OJO D.D
Operator :
Acquired : 22 Jul 2016 9:39 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU OJO
Misc Info :
Vial Number: 1

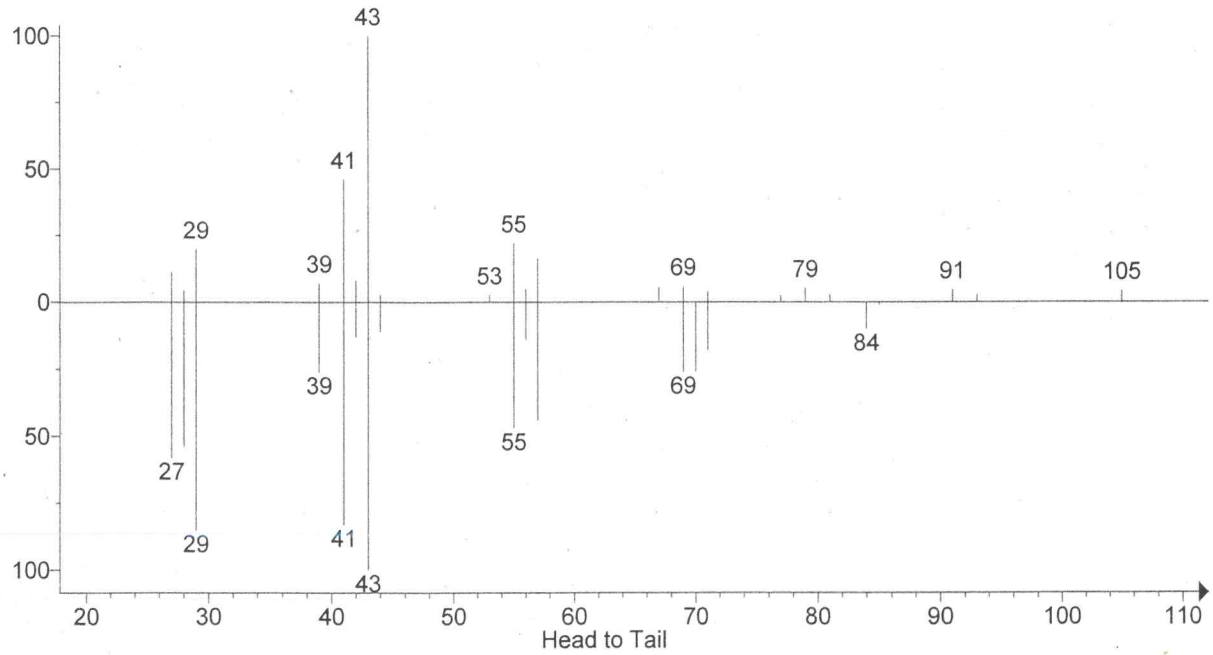


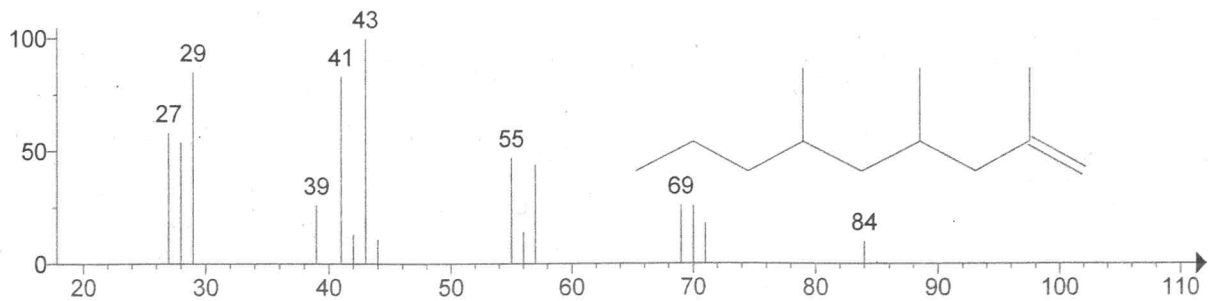






(Text File) Scan 1923 (23.185 min): BANTU OJO D.D\data.ms



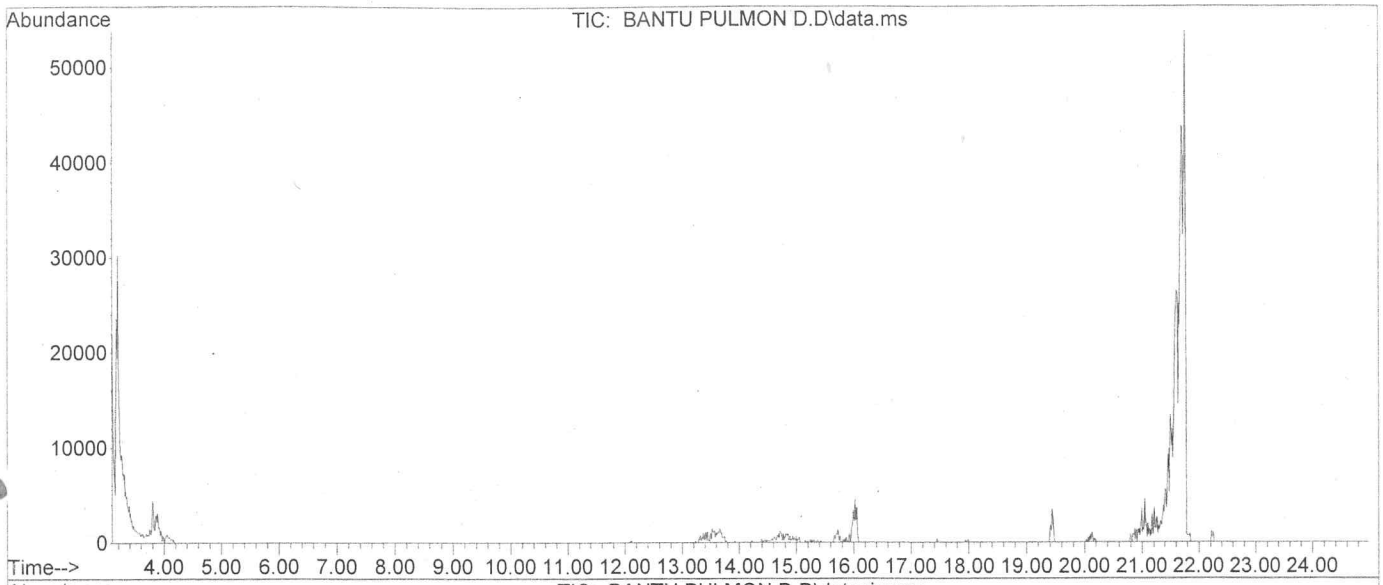



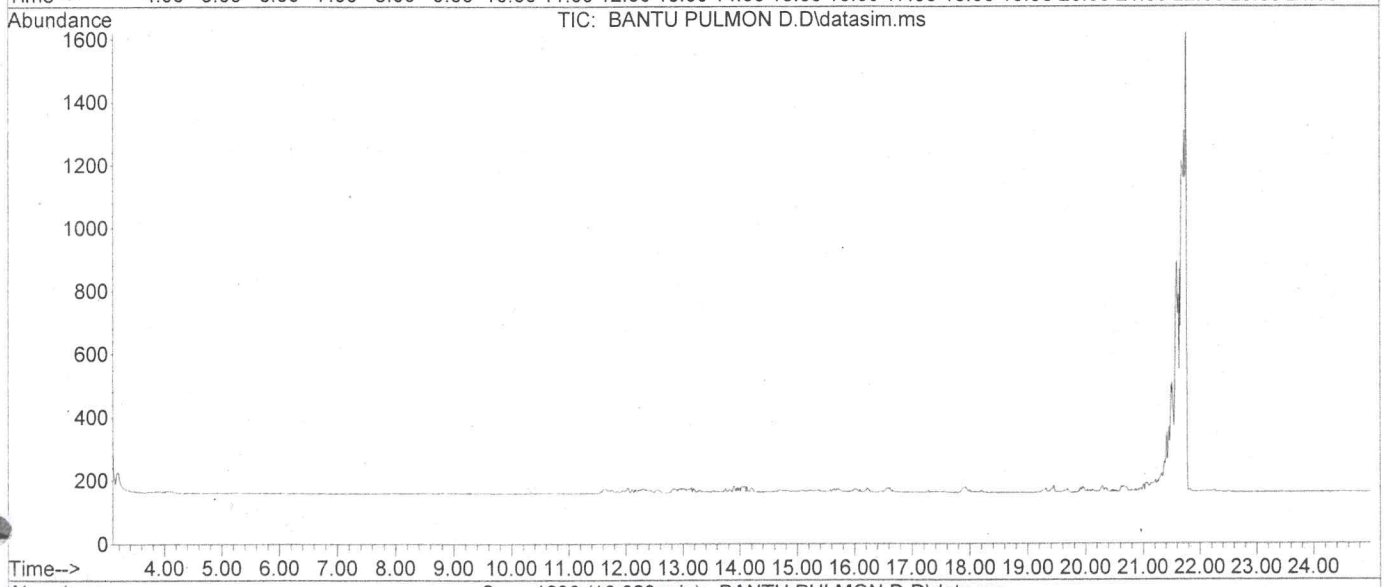

(mainlib) 2,4,6-Trimethyl-1-nonene

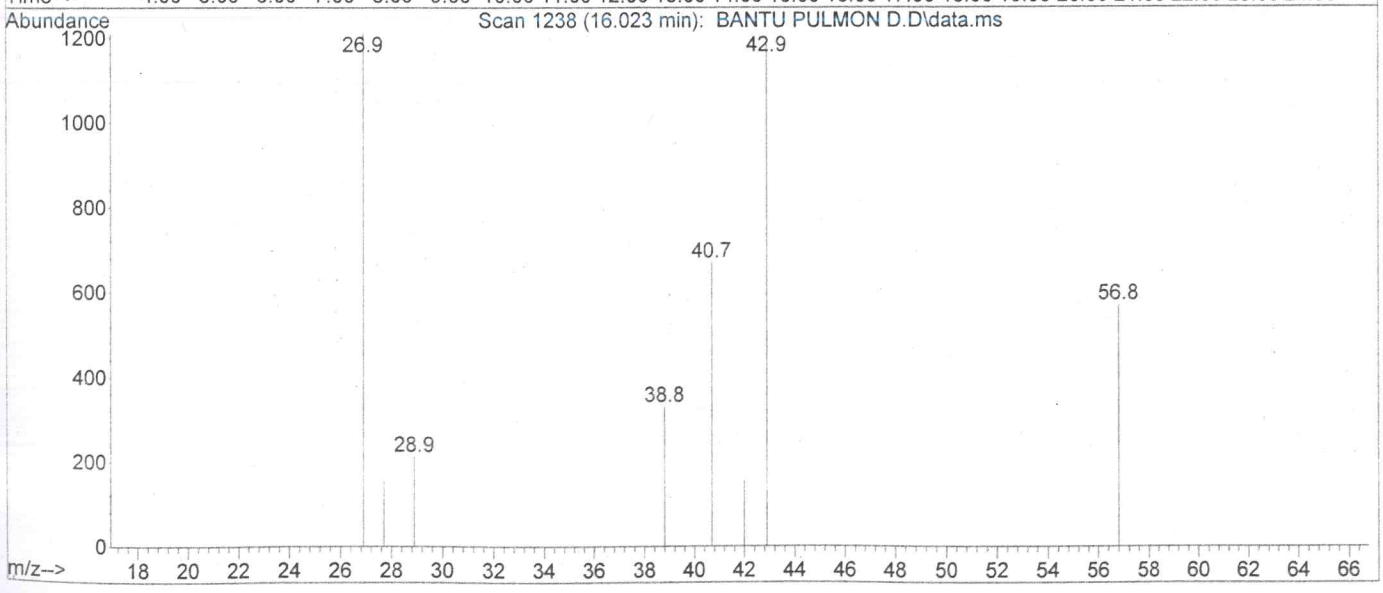
Name: 2,4,6-Trimethyl-1-nonene
Formula: $C_{12}H_{24}$
MW: 168 CAS#: 55771-40-9 NIST#: 99764 ID#: 4992 DB: mainlib
Other DBs: None
Contributor: T. KOJIMA, DEP. CHEM., NATL. DEF. ACAD., YOKOSUKA-SHI, JAPAN
10 largest peaks:
43 999 | 29 850 | 41 830 | 27 580 | 28 540 | 55 470 | 57 440 | 39 260 | 70 260 | 69 260 |
Synonyms:
no synonyms.

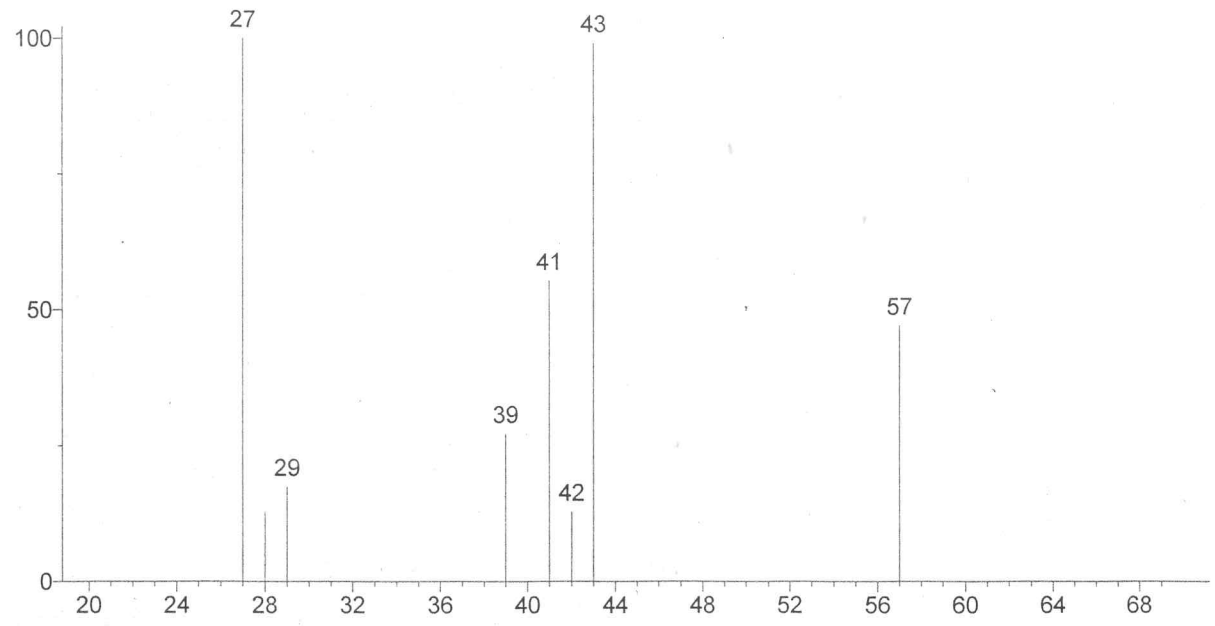
Estimated Kovats RI:
Value: 1053 iu
Confidence interval (Hydrocarbons): 39(50%) 167(95%) iu

File :D:\JLDR\Julio 2016\ BANTU PULMON D.D
Operator :
Acquired : 21 Jul 2016 8:30 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU PULMON
Misc Info :
Vial Number: 1

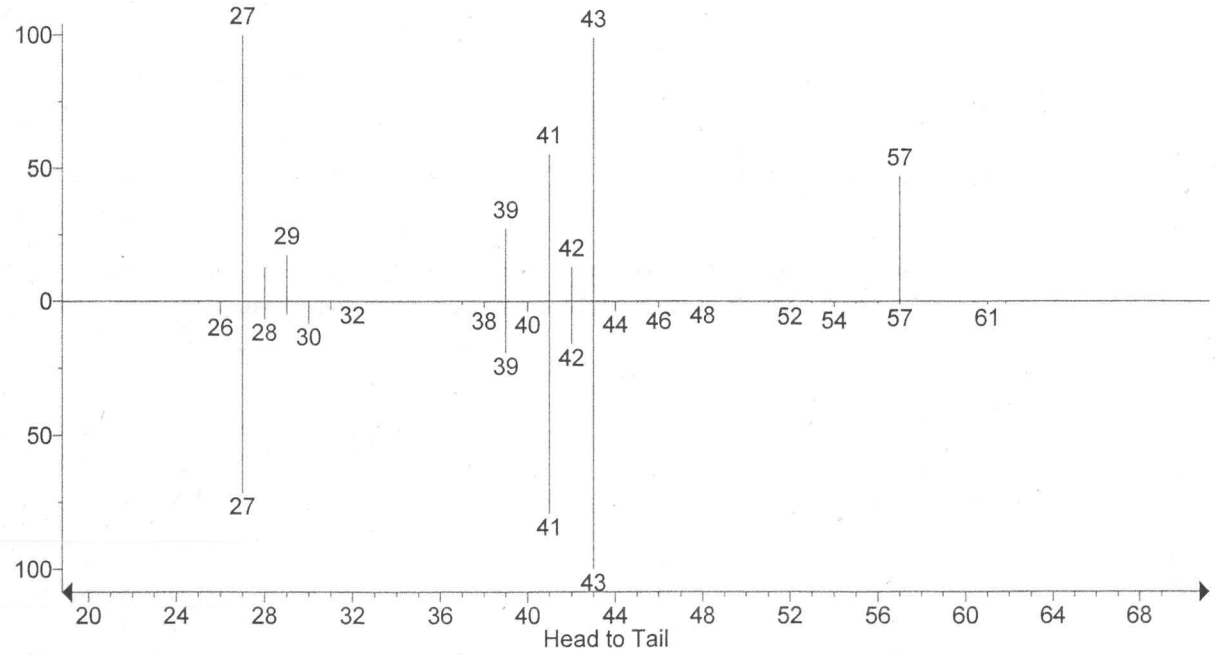


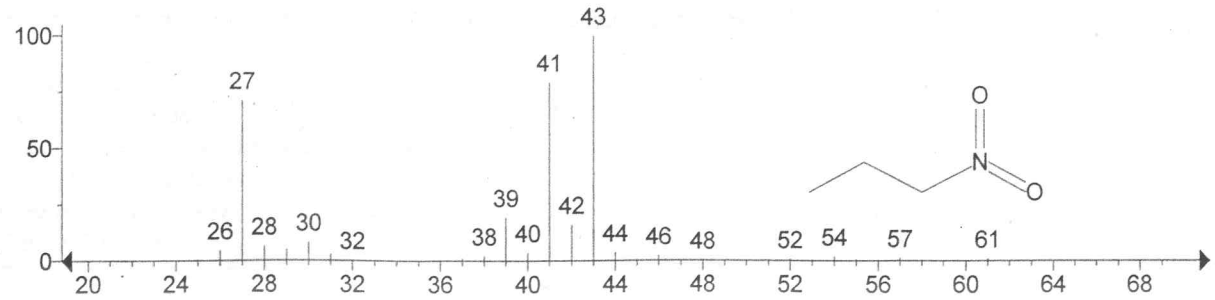






(Text File) Scan 1238 (16.023 min): BANTU PULMON D.D\data.ms




Head to Tail




(mainlib) Propane, 1-nitro-

Name: Propane, 1-nitro-
Formula: $C_3H_7NO_2$
MW: 89 CAS#: 108-03-2 NIST#: 230054 ID#: 5123 DB: mainlib
Other DBs: Fine, TSCA, RTECS, HODOC, NIH, EINECS, IRDB
Contributor: Japan AIST/NIMC Database- Spectrum MS-NW-4918
10 largest peaks:
43 999 | 41 792 | 27 714 | 39 192 | 42 160 | 30 82 | 28 65 | 29 49 | 26 47 | 15 40 |
Synonyms:
1.1-Nitropropane
2.n-C3H7NO2
3.1-NP
4.1-Nitropan
5.N-Nitropropane
6.NiPar S-10

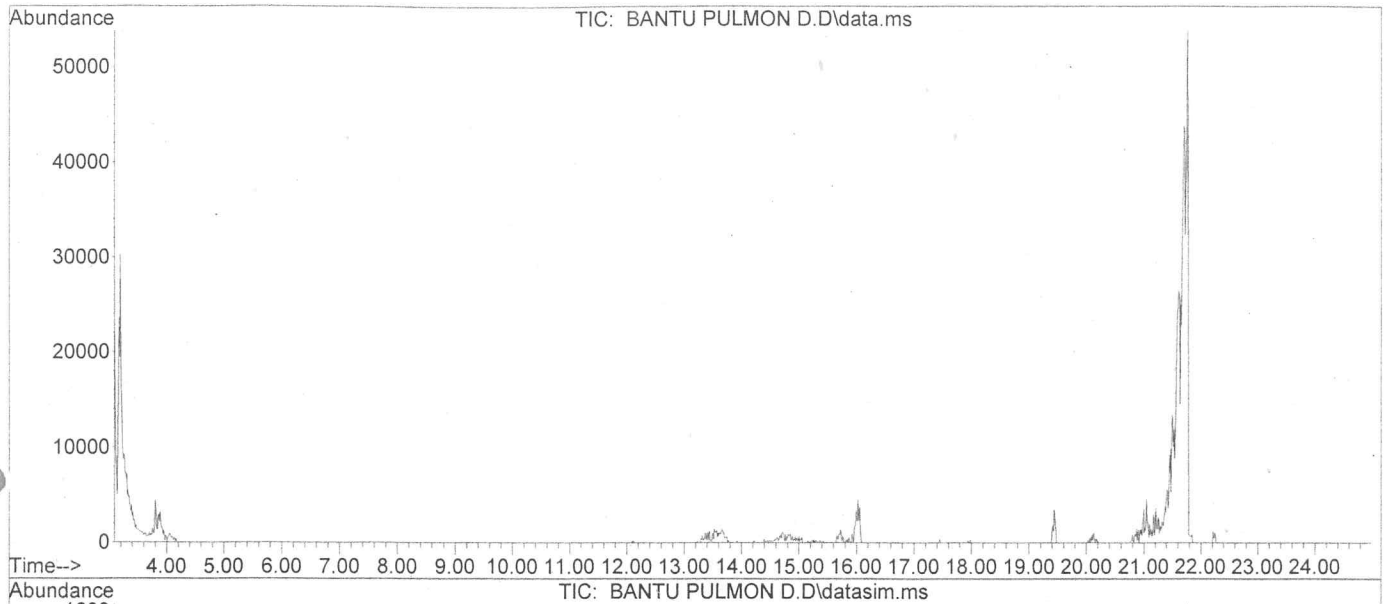
Estimated Kovats RI:
Value: 701 iu
Confidence interval (Nitrogen-containing): 83(50%) 356(95%) iu

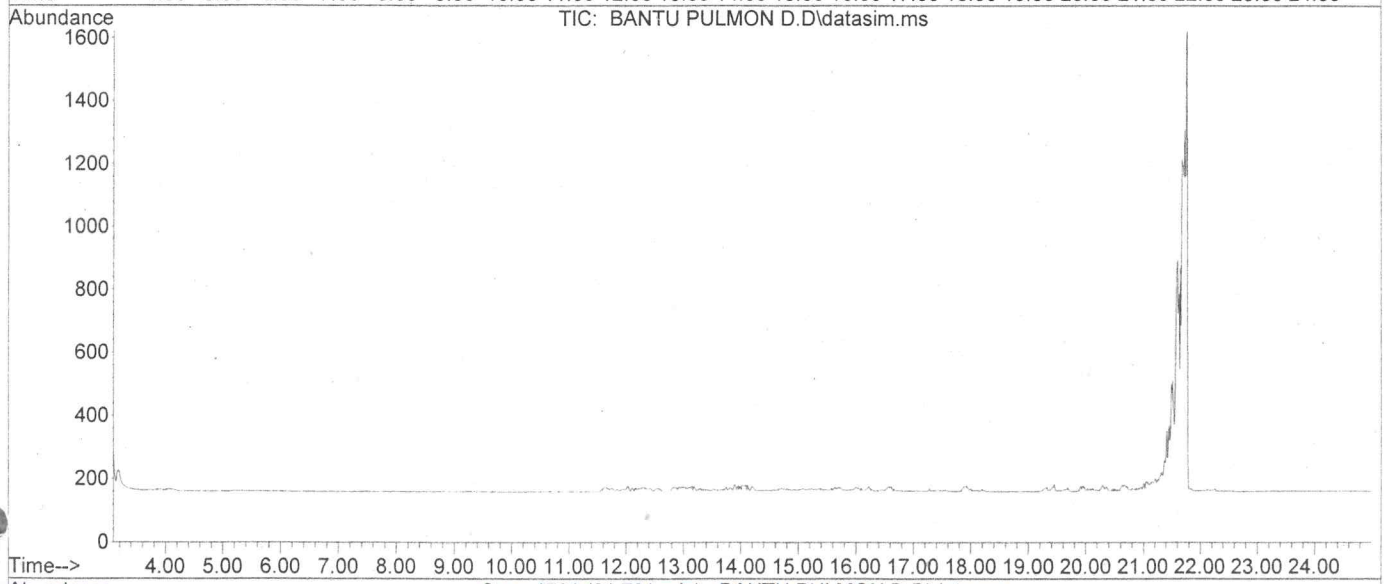
Kovats index
1. Value: 675.5 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI
Program Type: Isothermal
Start T: 190 C
Source: Riedo, F.; Fritz, D.; Tarján, G.; Kováts, E.Sz. A tailor-made C87 hydrocarbon as a possible non-polar standard stationary phase for gas chromatography J. Chromatogr., 126, 1976, 63-83.

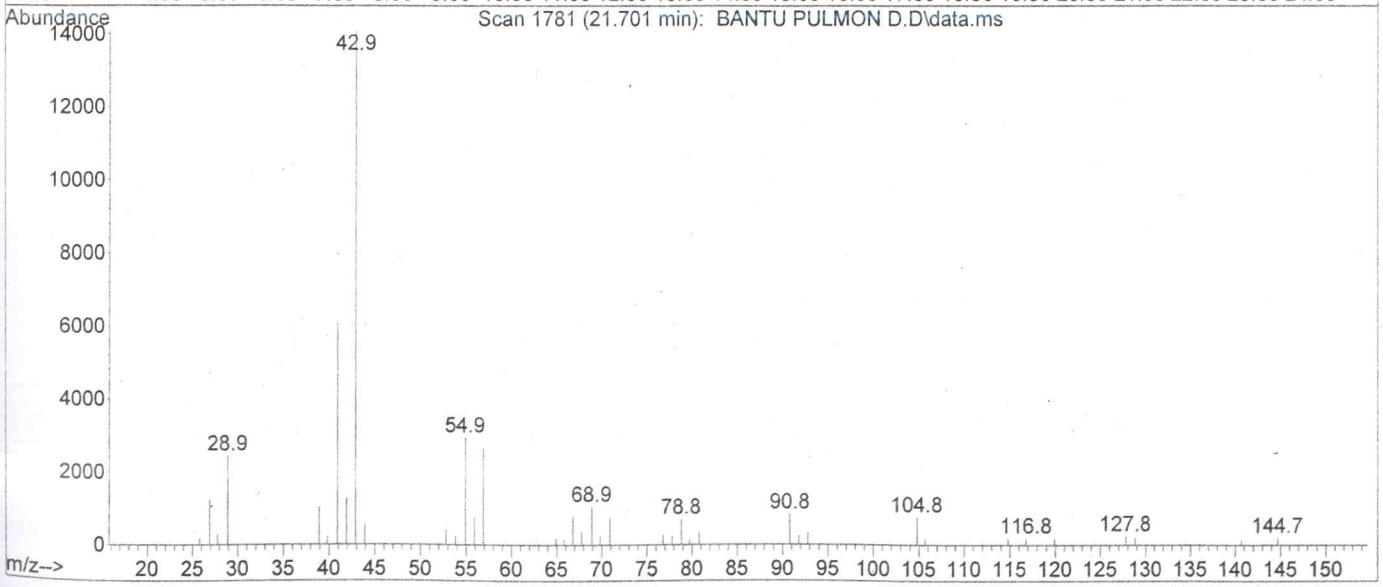
2. Value: 665.1 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI
Program Type: Isothermal
Start T: 130 C
Source: Riedo, F.; Fritz, D.; Tarján, G.; Kováts, E.Sz. A tailor-made C87 hydrocarbon as a possible non-polar standard stationary phase for gas chromatography J. Chromatogr., 126, 1976, 63-83.

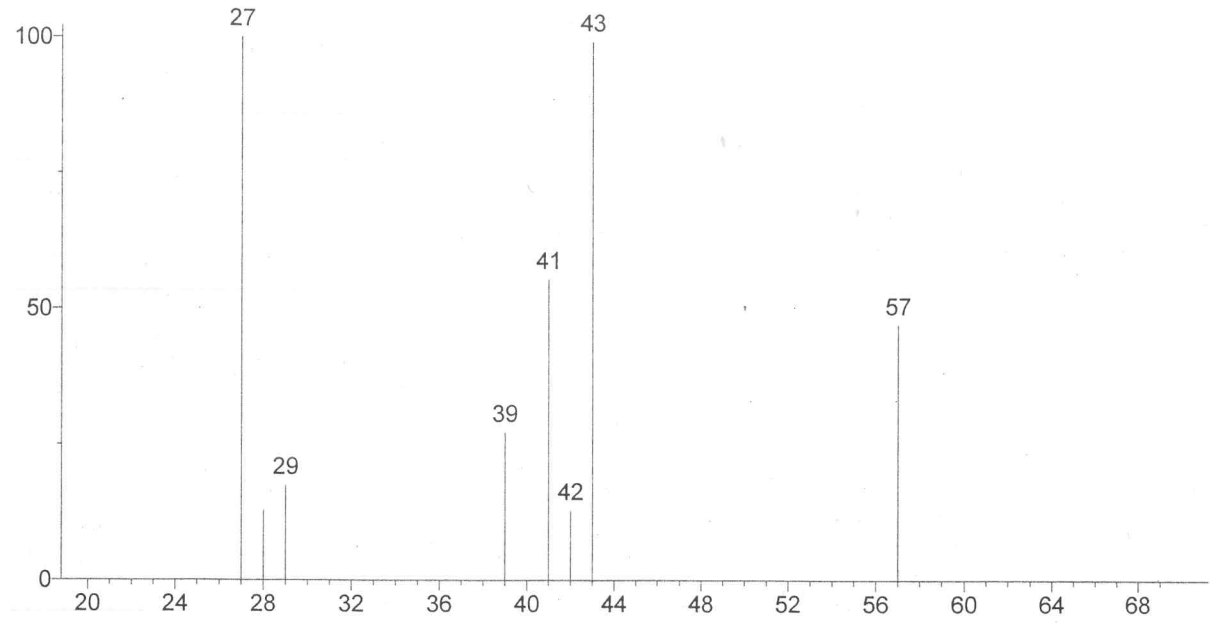
3. Value: 654.7 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI

File :D:\JLDR\Julio 2016\ BANTU PULMON D.D
Operator :
Acquired : 21 Jul 2016 8:30 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU PULMON
Misc Info :
Vial Number: 1

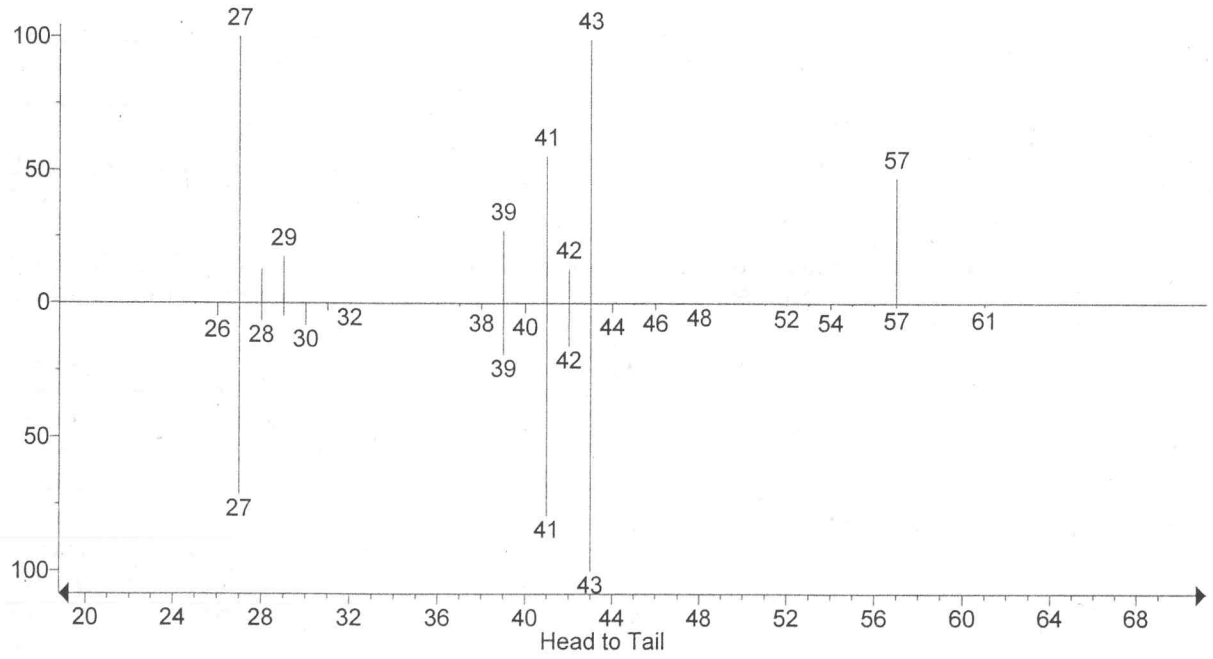


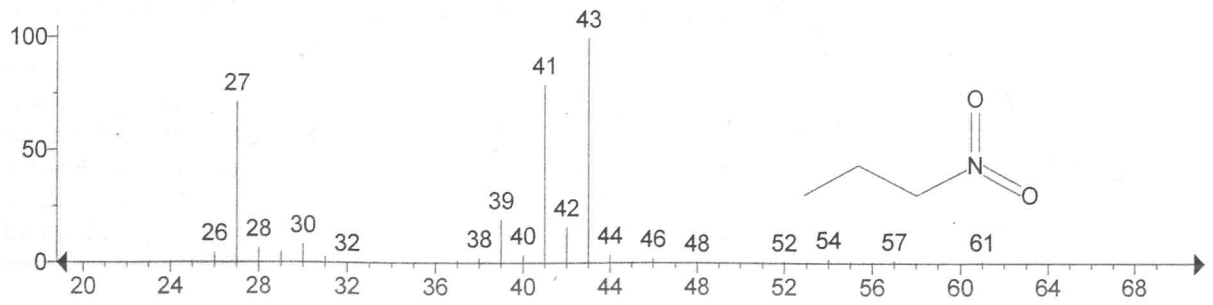






(Text File) Scan 1238 (16.023 min): BANTU PULMON D.D\data.ms




(mainlib) Propane, 1-nitro-

Name: Propane, 1-nitro-
Formula: $C_3H_7NO_2$
MW: 89 CAS#: 108-03-2 NIST#: 230054 ID#: 5123 DB: mainlib
Other DBs: Fine, TSCA, RTECS, HODOC, NIH, EINECS, IRDB
Contributor: Japan AIST/NIMC Database- Spectrum MS-NW-4918
10 largest peaks:
43 999 | 41 792 | 27 714 | 39 192 | 42 160 | 30 82 | 28 65 | 29 49 | 26 47 | 15 40 |
Synonyms:
1.1-Nitropropane
2.n-C3H7NO2
3.1-NP
4.1-Nitropan
5.N-Nitropropane
6.NiPar S-10

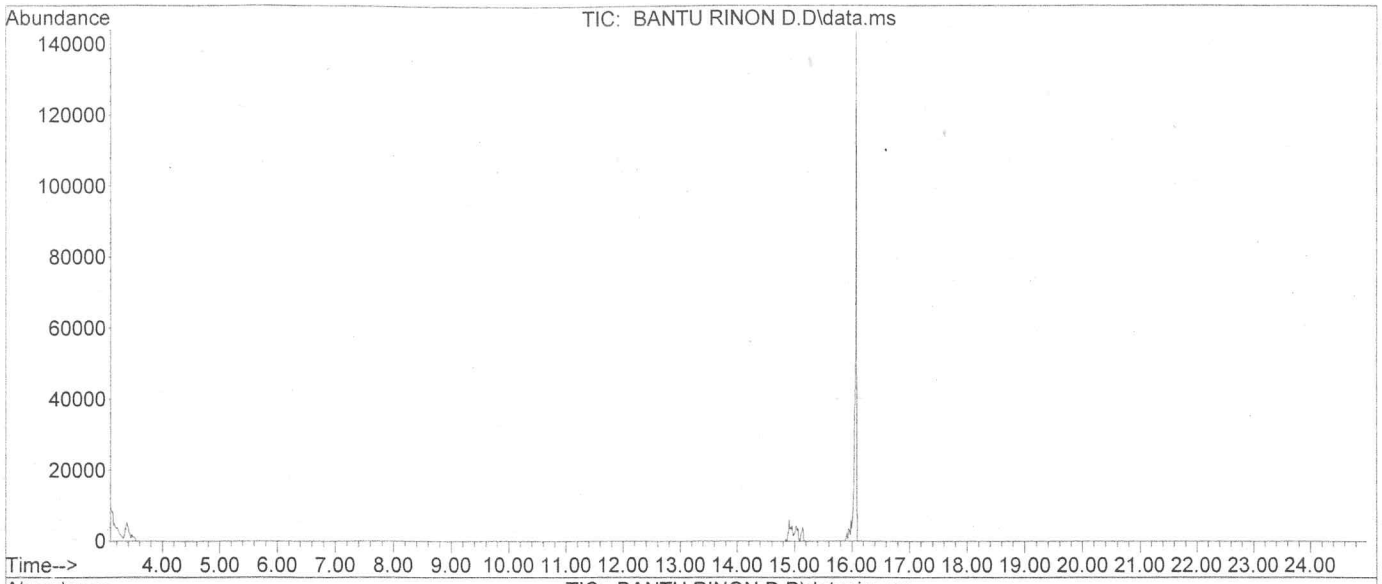
Estimated Kovats RI:
Value: 701 iu
Confidence interval (Nitrogen-containing): 83(50%) 356(95%) iu

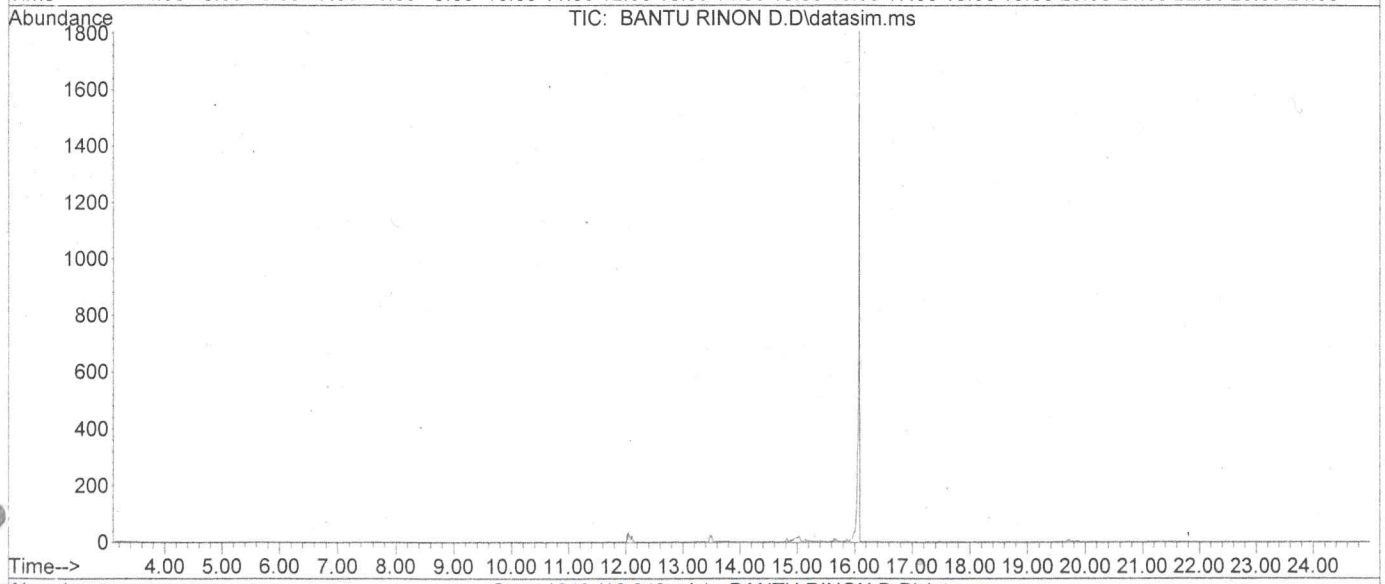
Kovats index
1. Value: 675.5 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI
Program Type: Isothermal
Start T: 190 C
Source: Riedo, F.; Fritz, D.; Tarján, G.; Kováts, E.Sz. A tailor-made C87 hydrocarbon as a possible non-polar standard stationary phase for gas chromatography J. Chromatogr., 126, 1976, 63-83.

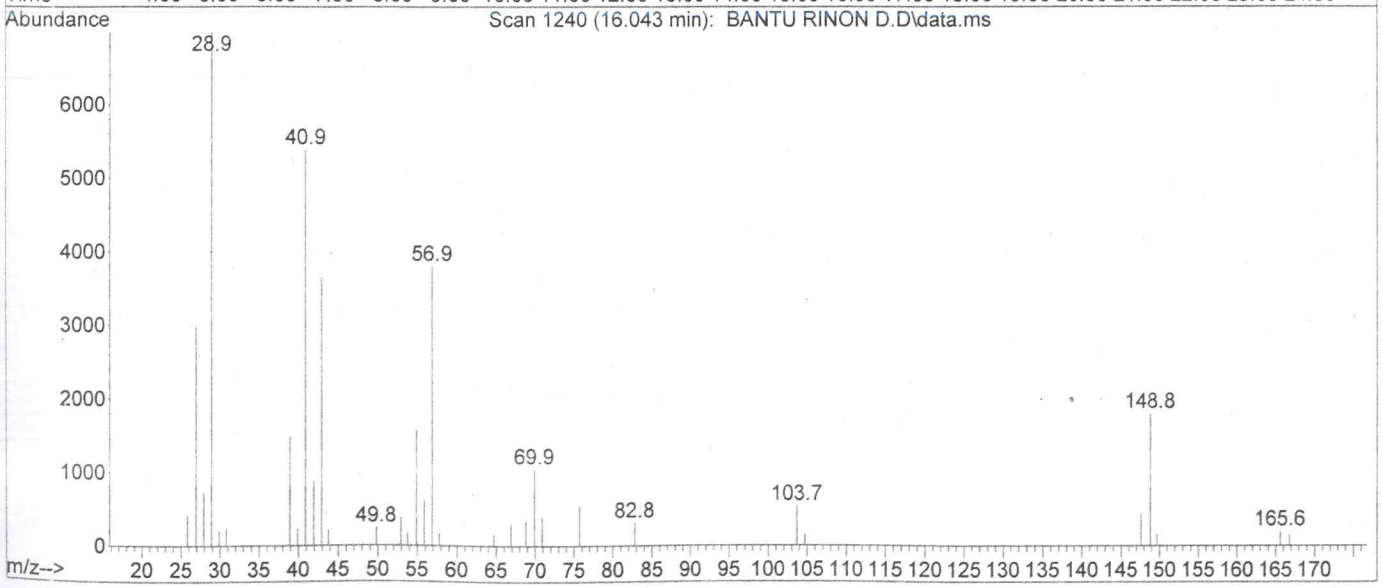
2. Value: 665.1 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI
Program Type: Isothermal
Start T: 130 C
Source: Riedo, F.; Fritz, D.; Tarján, G.; Kováts, E.Sz. A tailor-made C87 hydrocarbon as a possible non-polar standard stationary phase for gas chromatography J. Chromatogr., 126, 1976, 63-83.

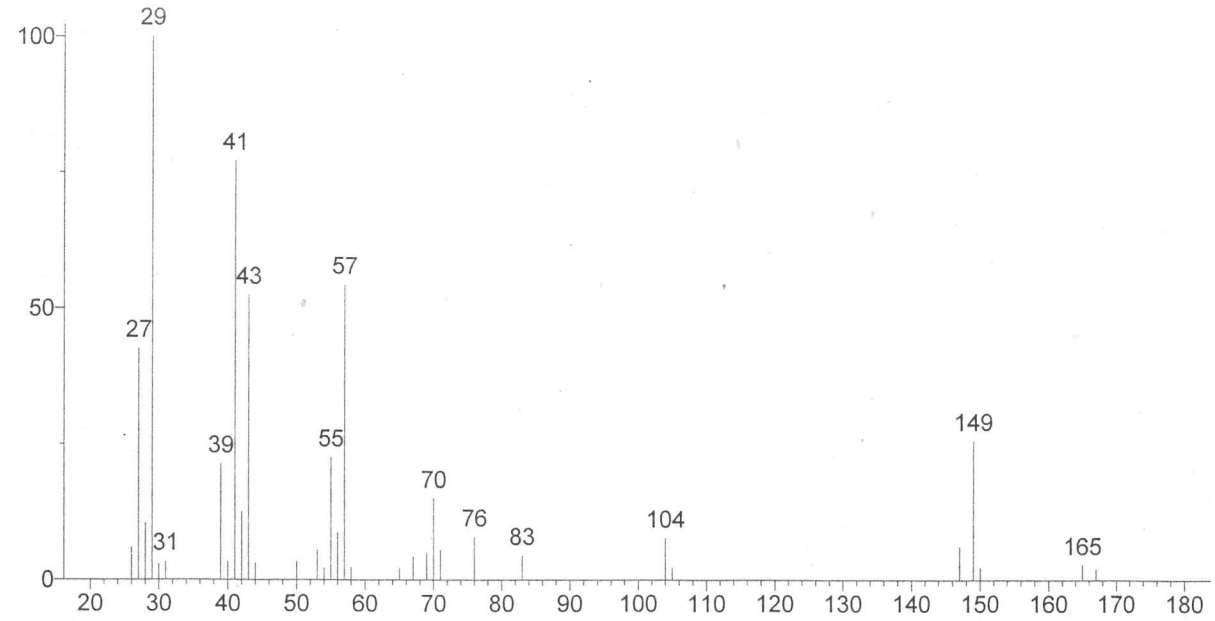
3. Value: 654.7 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apolane
Column Length: 2.4 m
Carrier Gas: He
Substrate: Chromosorb
Data Type: Kovats RI

File :D:\JLDR\Julio 2016\ BANTU RINON D.D
Operator :
Acquired : 25 Jul 2016 14:41 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU RINON
Misc Info :
Vial Number: 1



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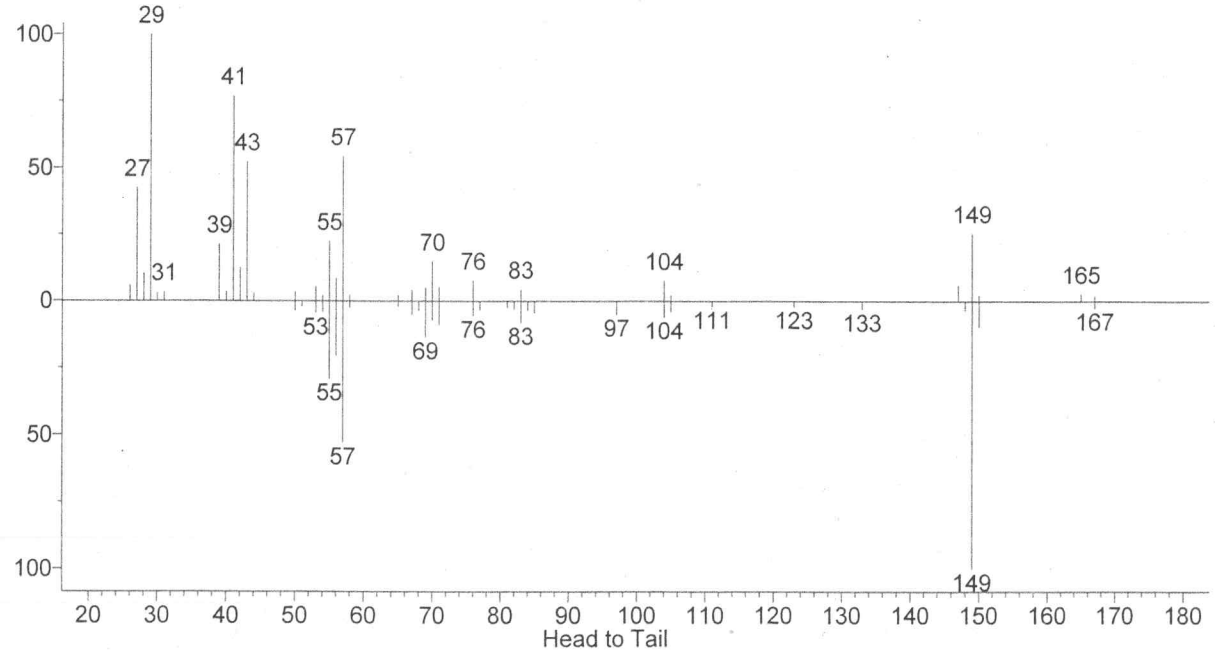
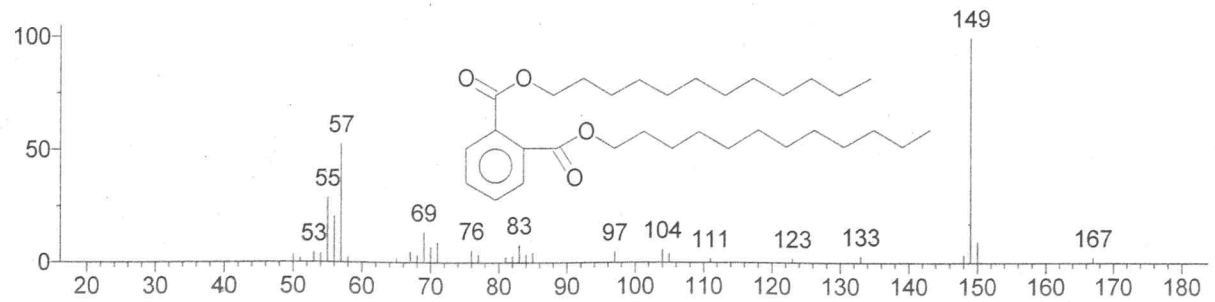



Head to Tail

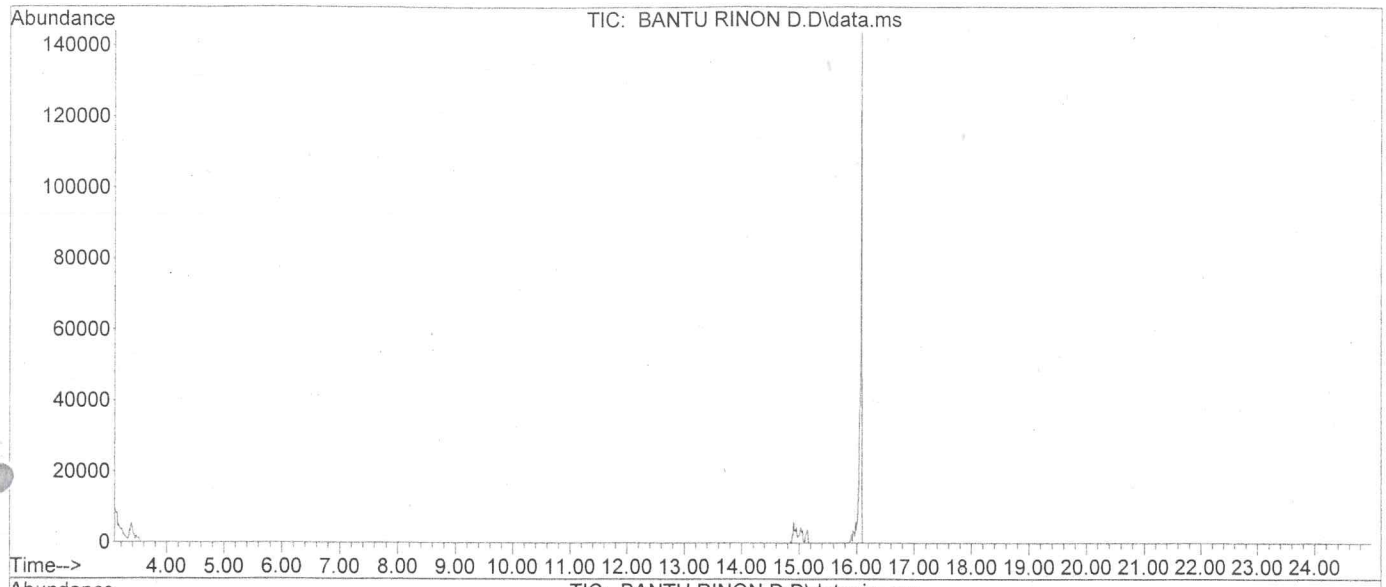


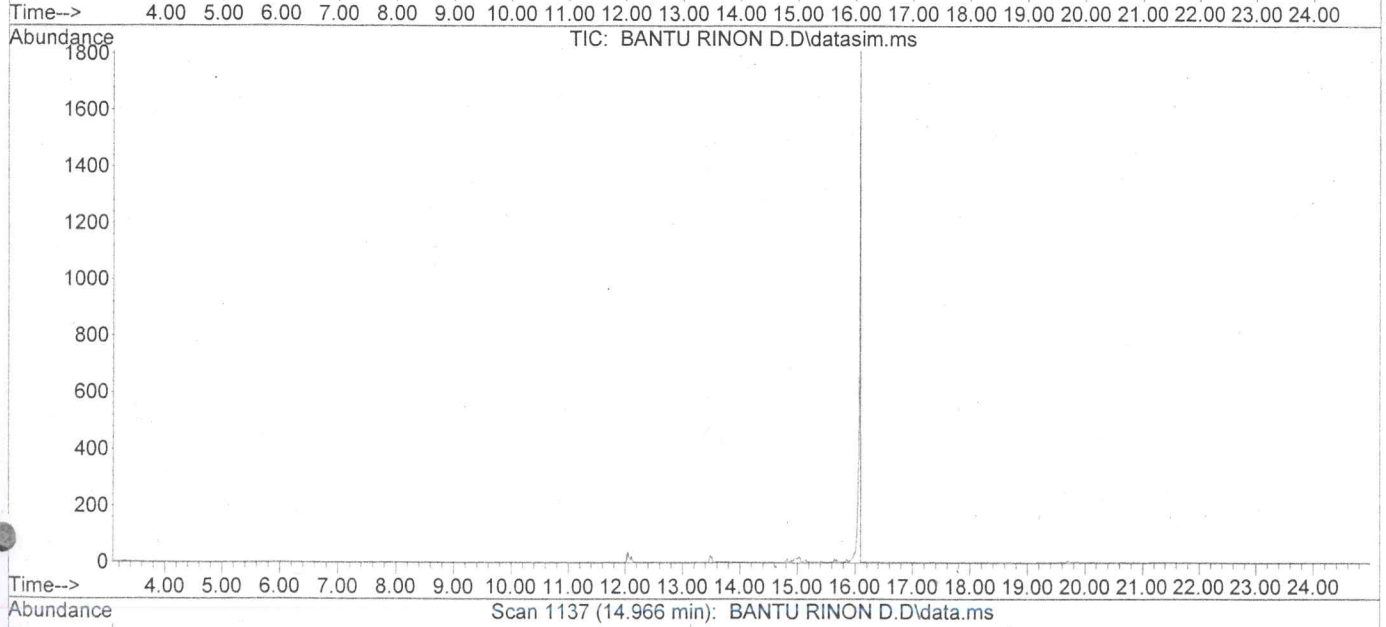

(mainlib) Didodecyl phthalate

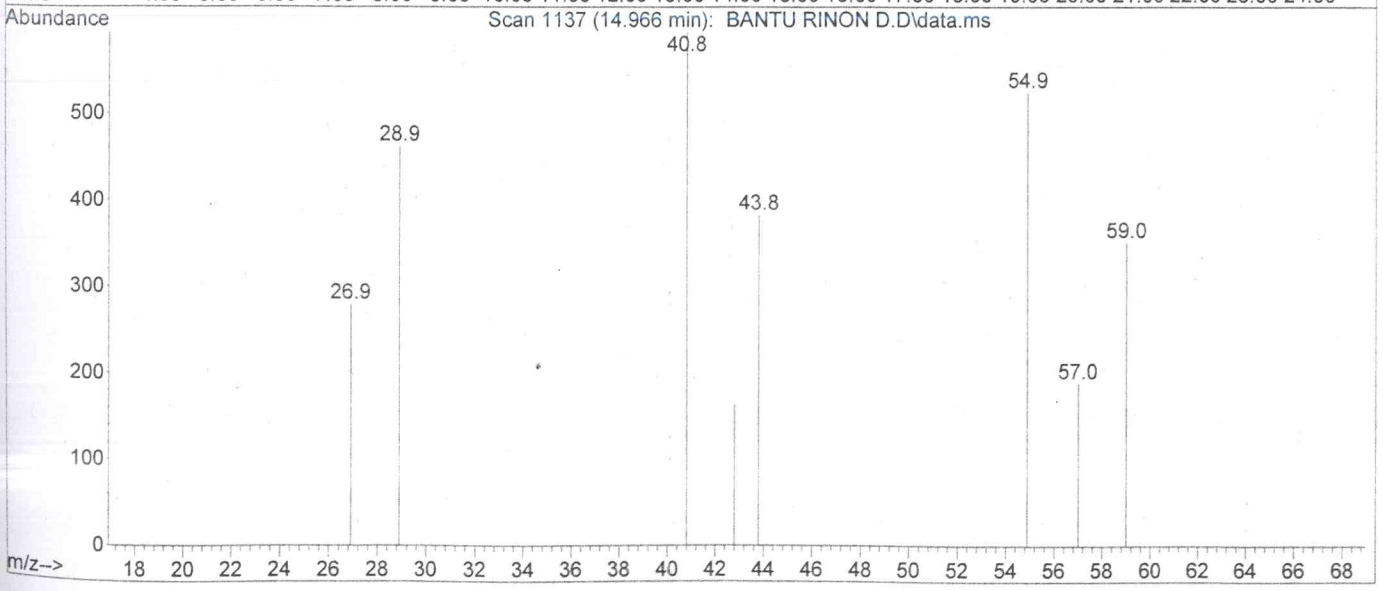
Name: Didodecyl phthalate
Formula: $C_{32}H_{54}O_4$
MW: 502 CAS#: 2432-90-8 NIST#: 117553 ID#: 95356 DB: mainlib
Other DBs: Fine, TSCA, RTECS, HODOC, NIH, EINECS
Contributor: FDA, Los Angeles District Laboratory
10 largest peaks:
149 999 | 57 529 | 55 290 | 56 205 | 69 135 | 150 95 | 71 90 | 83 80 | 70 70 | 104 60 |
Synonyms:
1.1,2-Benzenedicarboxylic acid, didodecyl ester
2.Dilauryl phthalate
3.Phthalic acid, didodecyl ester
4.Di-n-dodecyl phthalate

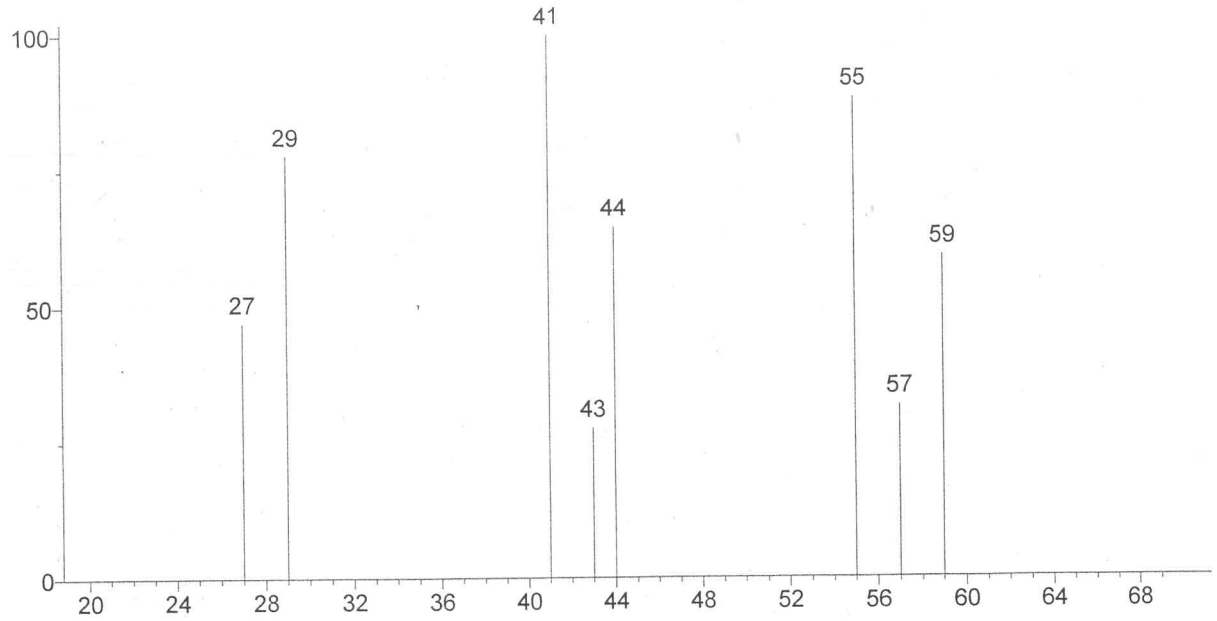
Estimated Kovats RI:
Value: 3627 iu
Confidence interval (Esters): 47(50%) 201(95%) iu

File :D:\JLDR\Julio 2016\ BANTU RINON D.D
Operator :
Acquired : 25 Jul 2016 14:41 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU RINON
Misc Info :
Vial Number: 1

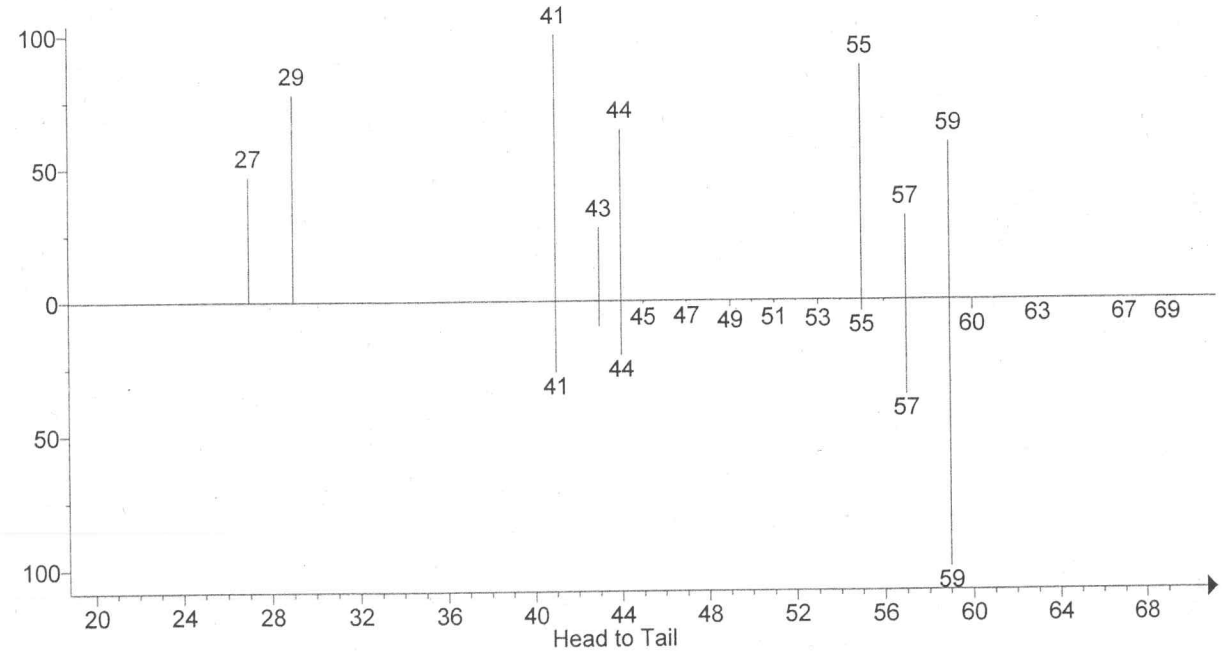


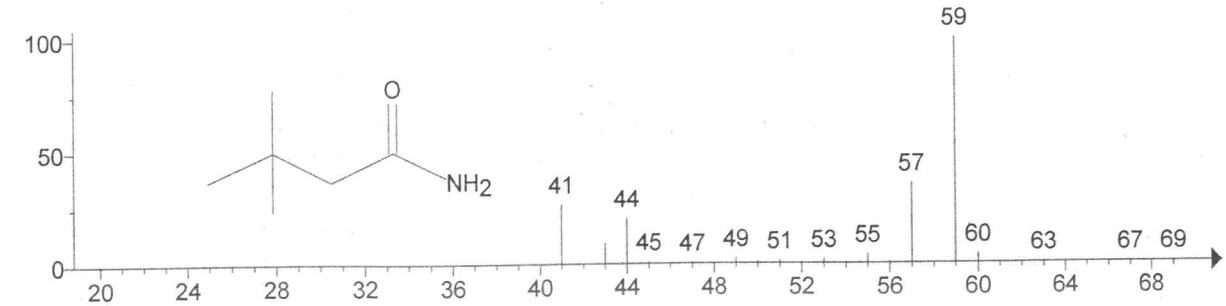






(Text File) Scan 1137 (14.966 min): BANTU RINON D.D\data.ms



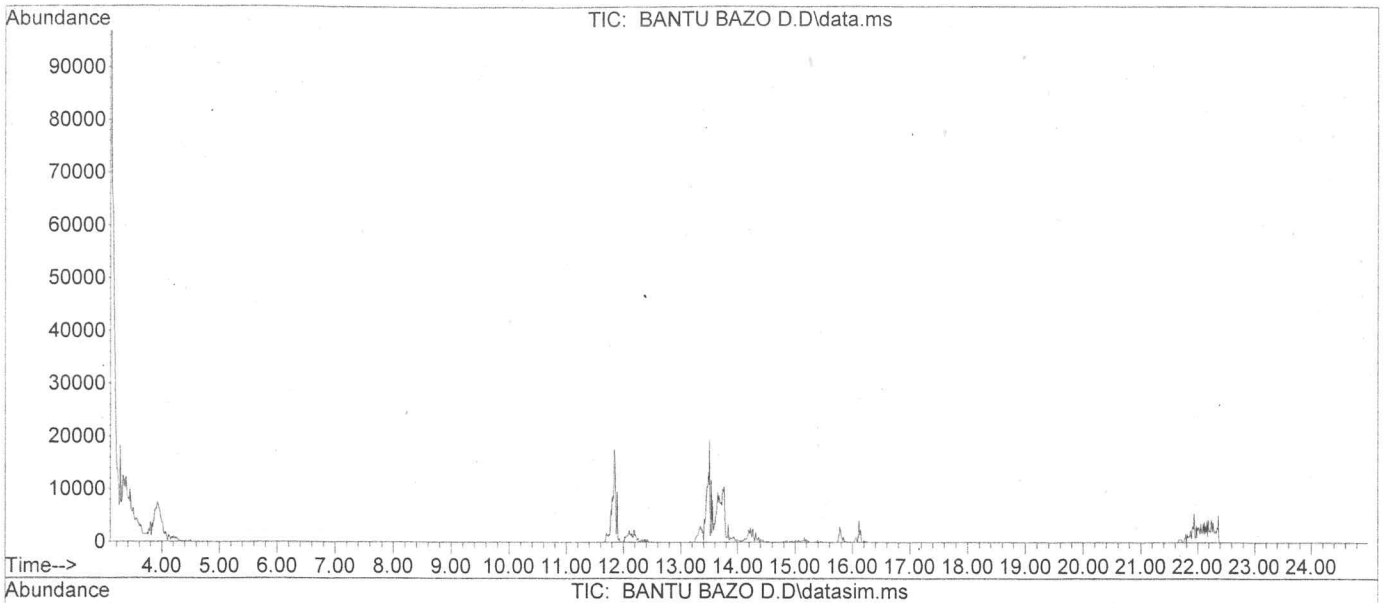



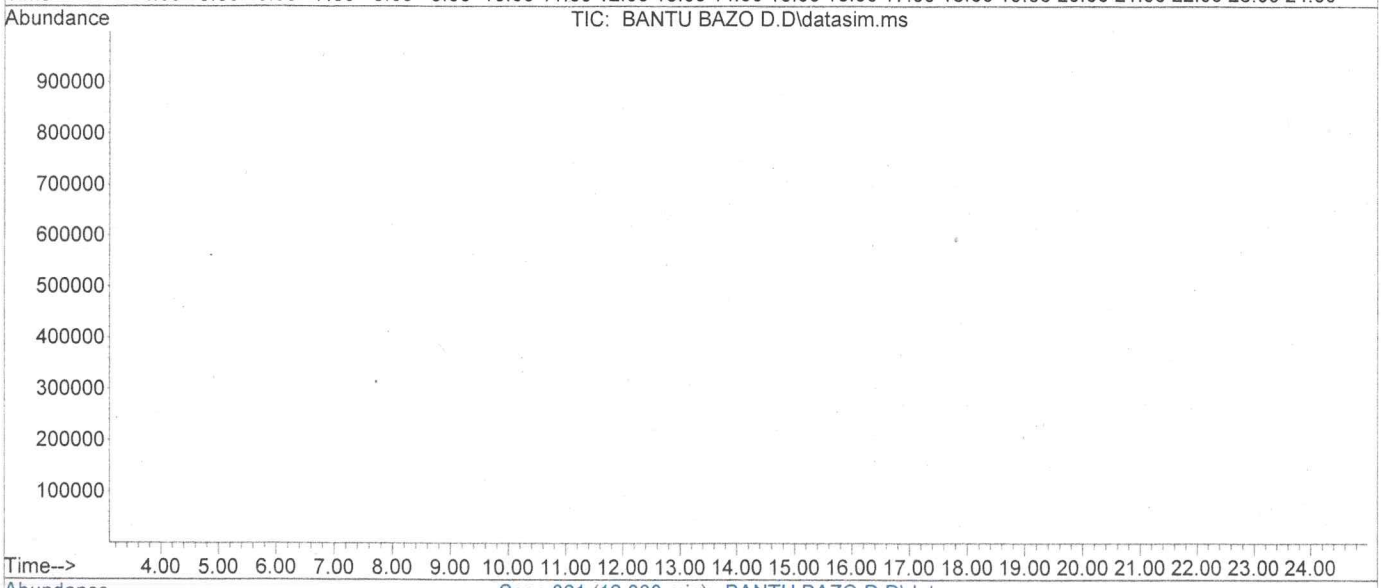

(replib) Butanamide, 3,3-dimethyl-

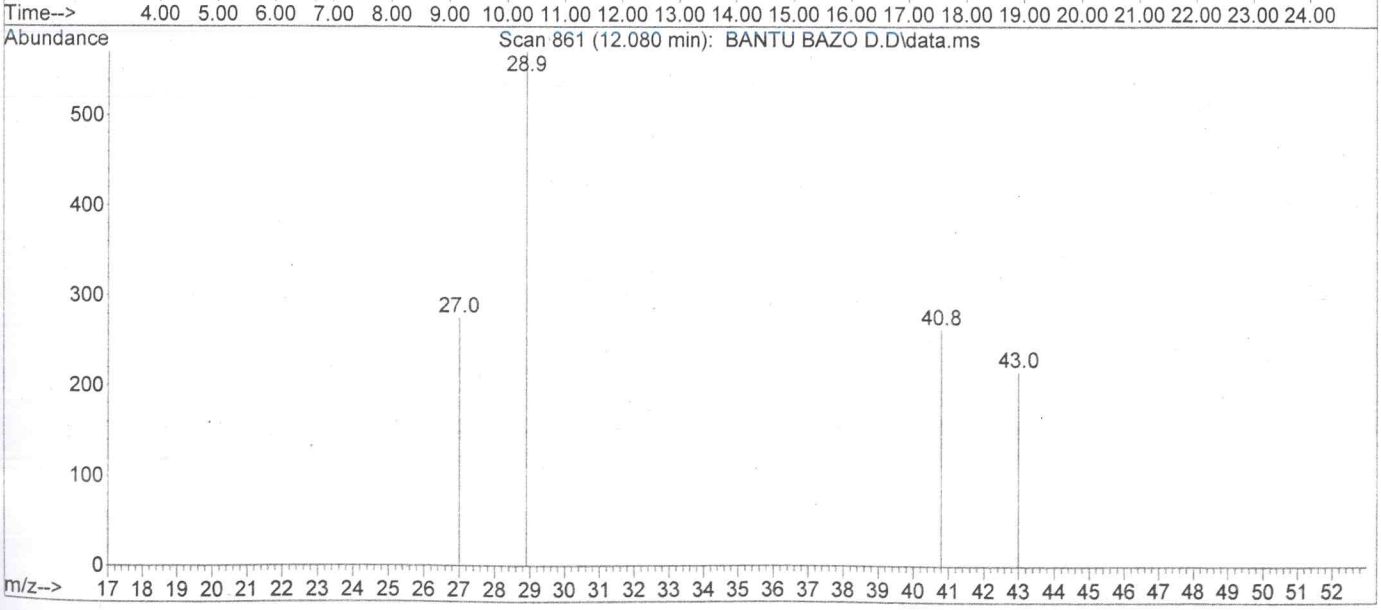
Name: Butanamide, 3,3-dimethyl-
Formula: $C_6H_{13}NO$
MW: 115 CAS#: 926-04-5 NIST#: 127233 ID#: 6515 DB: replib
Other DBs: HODOC
Contributor: L. Tsai, LB, NHLBI, NIH, Bethesda, MD 20892
10 largest peaks:
59 999 | 57 355 | 41 267 | 44 204 | 43 93 | 115 81 | 60 41 | 55 41 | 100 35 | 49 23 |
Synonyms:
1.t-Butylacetamide
2.3,3-Dimethylbutanamide #

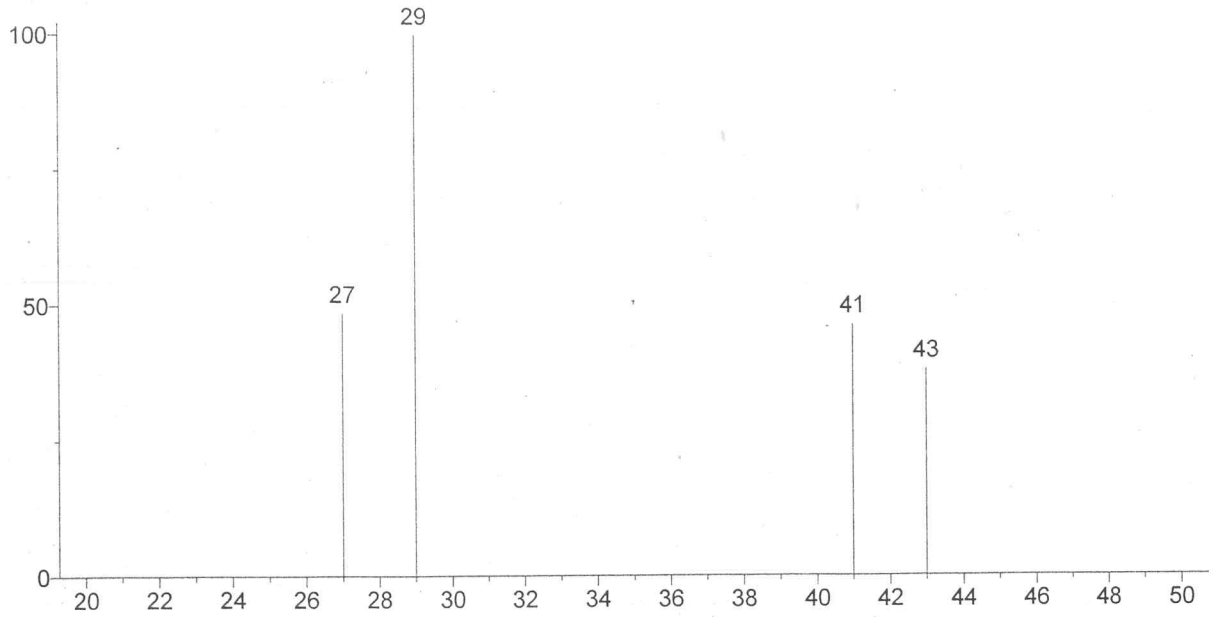
Estimated Kovats RI:
Value: 943 iu
Confidence interval (Nitrogen-containing): 83(50%) 356(95%) iu

File :D:\JLDR\Julio 2016\ BANTU BAZO D.D
Operator :
Acquired : 22 Jul 2016 9:06 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU BAZO
Misc Info :
Vial Number: 1

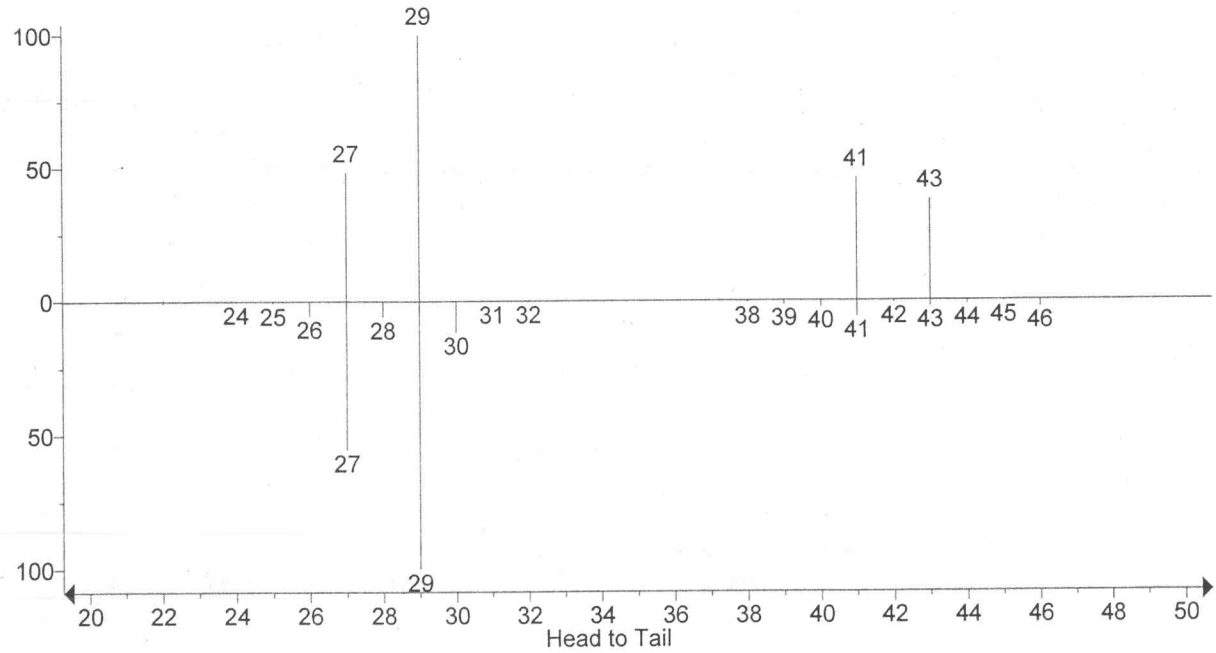


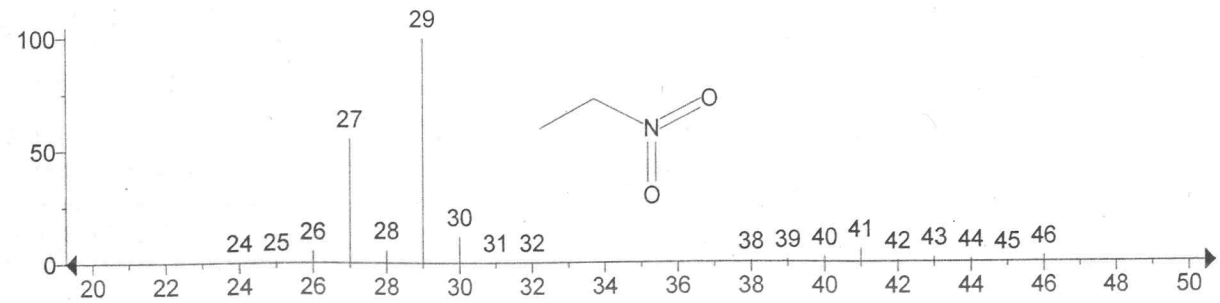






(Text File) Scan 861 (12.080 min): BANTU BAZO D.D\data.ms




(mainlib) Ethane, nitro-

Name: Ethane, nitro-
Formula: $C_2H_5NO_2$
MW: 75 CAS#: 79-24-3 NIST#: 227638 ID#: 347 DB: mainlib
Other DBs: Fine, TSCA, RTECS, HODOC, NIH, EINECS, IRDB
Contributor: Japan AIST/NIMC Database- Spectrum MS-NW- 669
10 largest peaks:
29 999 | 27 554 | 30 116 | 41 60 | 28 58 | 26 55 | 46 26 | 40 24 | 43 22 | 15 21 |
Synonyms:
1.Nitroethane
2.C2H5NO2
3.Nitroetan
4.UN 2842
5.NE
6.Nitroparaffin
7.1-Nitroethane #

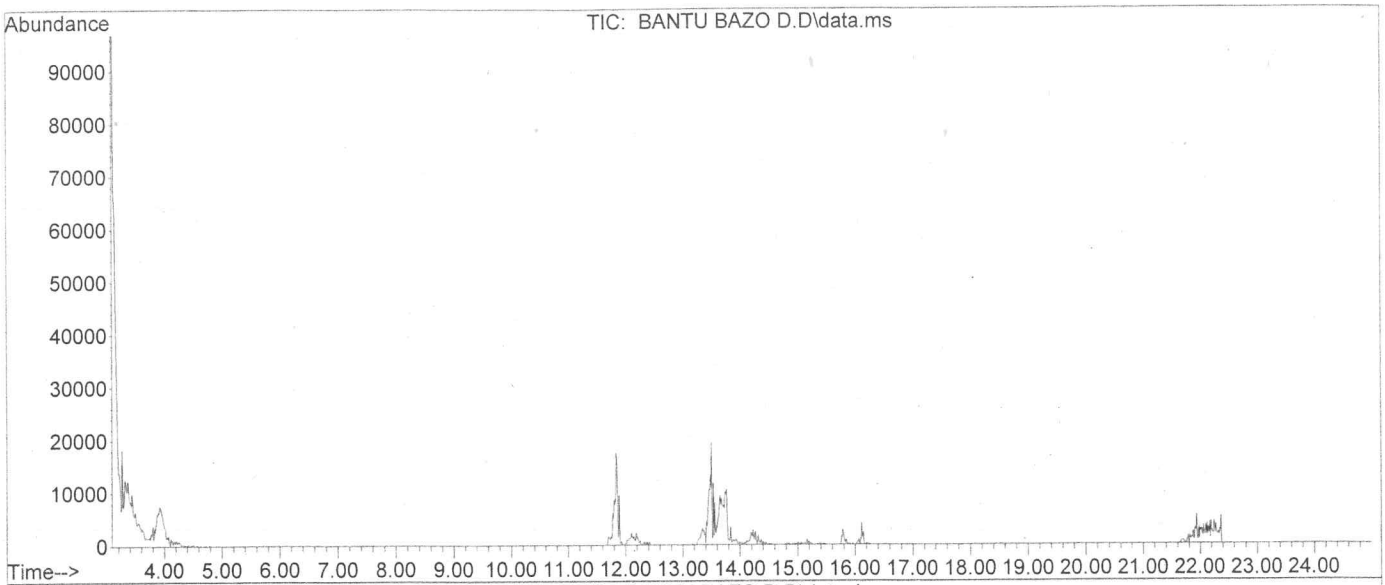
Estimated Kovats RI:
Value: 602 iu
Confidence interval (Nitrogen-containing): 83(50%) 356(95%) iu

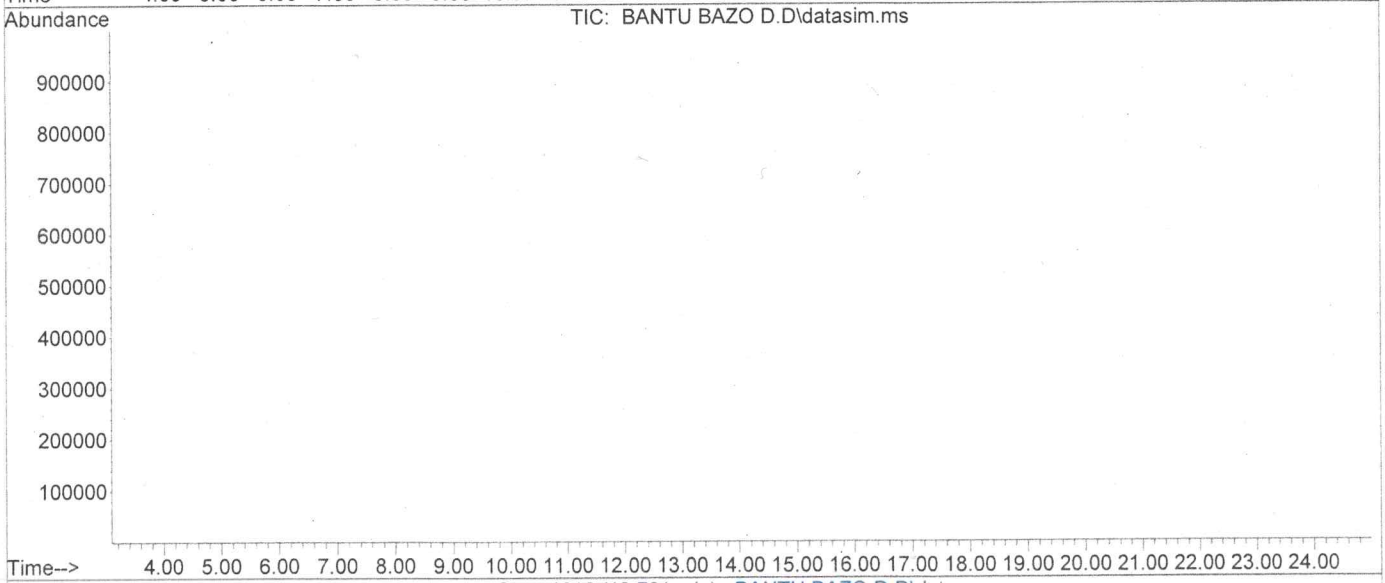
Kovats index
1. Value: 655 iu
Column Type: Capillary
Column Class: Standard non-polar
Active Phase: OV-1
Data Type: Kovats RI
Program Type: Ramp
Source: Ramsey, J.D.; Flanagan, R.J. Detection and Identification of Volatile Organic Compounds in Blood by Headspace Gas Chromatography as an Aid to the Diagnosis of Solvent Abuse J. Chromatogr., 240, 1982, 423-444.

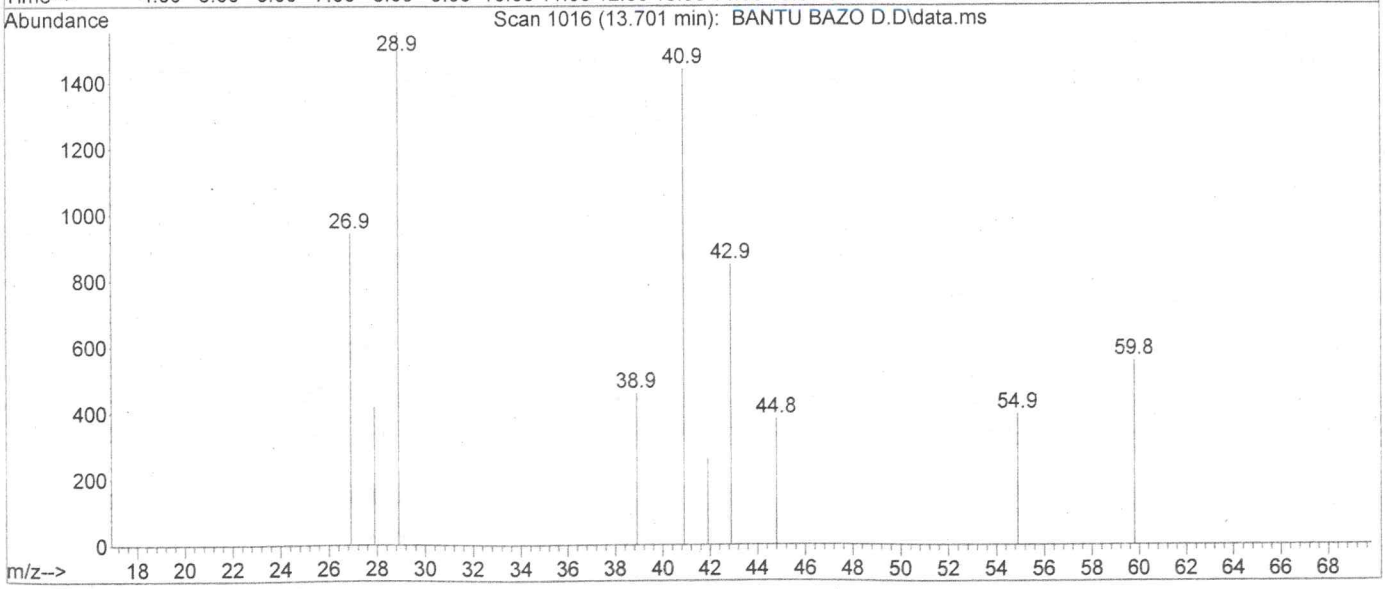
2. Value: 583 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apiezon L
Column Length: 2.25 m
Substrate: Celite
Data Type: Kovats RI
Program Type: Isothermal
Start T: 70 C
Source: Wehrli, A.; Kováts, E. Gas-chromatographische Charakterisierung ogranischer Verbindungen. Teil 3: Berechnung der Retentionsindices aliphatischer, alicyclischer und aromatischer Verbindungen Helv. Chim. Acta, 7, 1959, 2709-2736.

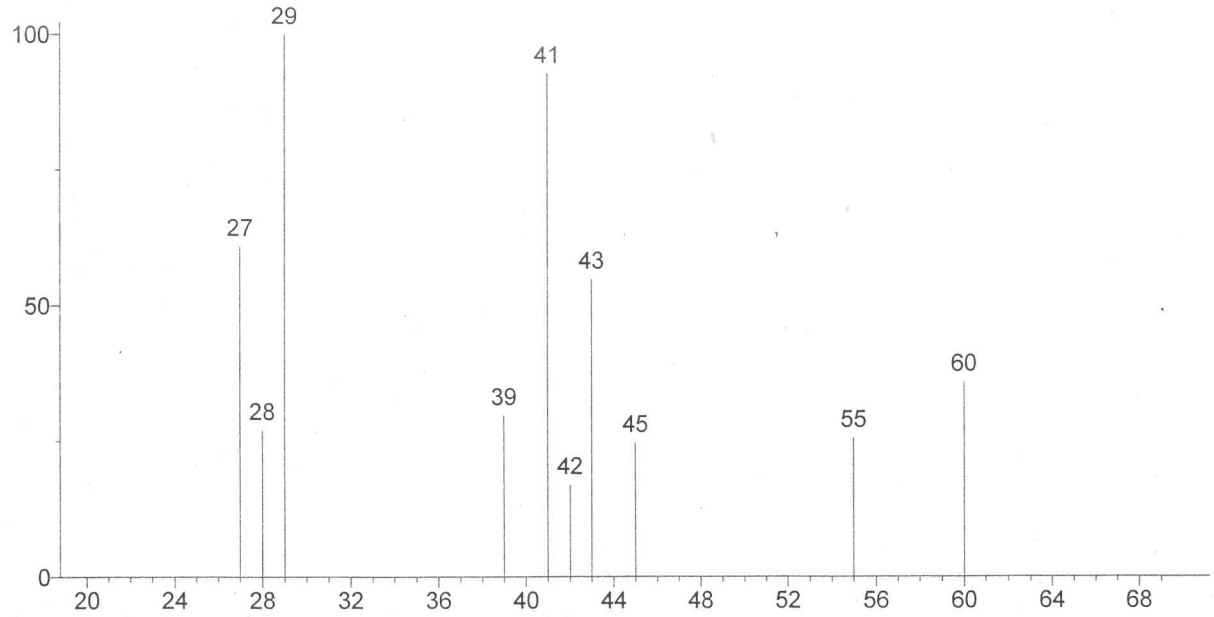
3. Value: 590 iu
Column Type: Packed
Column Class: Semi-standard non-polar
Active Phase: Apiezon L
Column Length: 2.25 m
Substrate: Celite
Data Type: Kovats RI
Program Type: Isothermal
Start T: 130 C
Source: Wehrli, A.; Kováts, E. Gas-chromatographische Charakterisierung ogranischer Verbindungen. Teil 3: Berechnung der Retentionsindices aliphatischer, alicyclischer und aromatischer Verbindungen Helv. Chim. Acta, 7,

File :D:\JLDR\Julio 2016\ BANTU BAZO D.D
Operator :
Acquired : 22 Jul 2016 9:06 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU BAZO
Misc Info :
Vial Number: 1

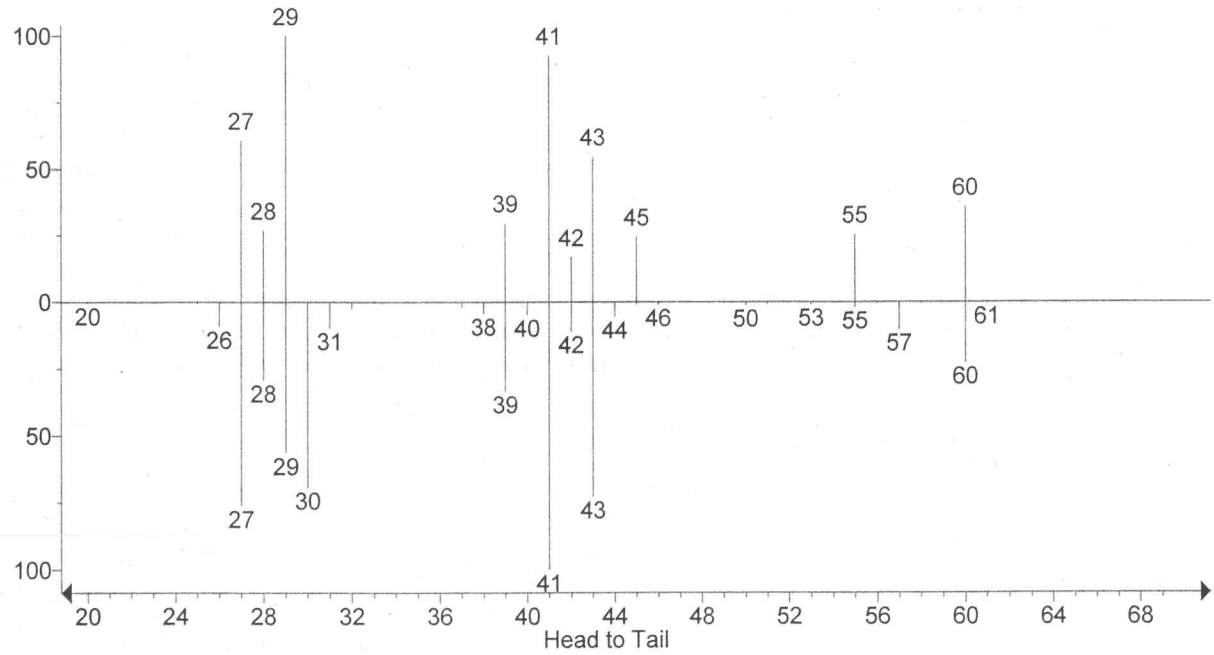


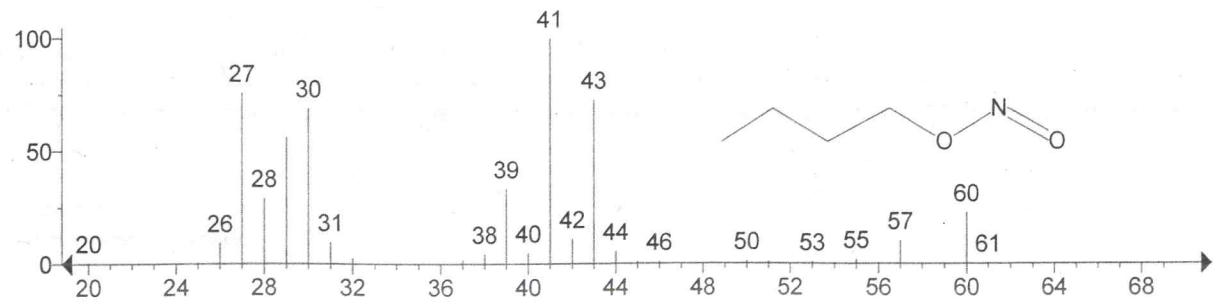






(Text File) Scan 1016 (13.701 min): BANTU BAZO D.D\data.ms




(mainlib) Nitrous acid, butyl ester

Name: Nitrous acid, butyl ester
Formula: $C_4H_9NO_2$
MW: 103 CAS#: 544-16-1 NIST#: 247736 ID#: 1783 DB: mainlib
Other DBs: Fine, TSCA, RTECS, HODOC, NIH, EINECS
Contributor: Patti Price, Georgia Bureau of Investigation, Decatur, Georgia
10 largest peaks:
41 999 | 27 761 | 43 727 | 30 692 | 29 564 | 39 333 | 28 292 | 60 226 | 42 110 | 57 103 |
Synonyms:
1.n-Butyl nitrite
2.Butyl nitrite
3.n-C4H9ONO
4.Nitrous acid, n-butyl ester
5.NBN
6.NCI-C56553
7.UN 2351
8.Butyl ester of nitrous acid

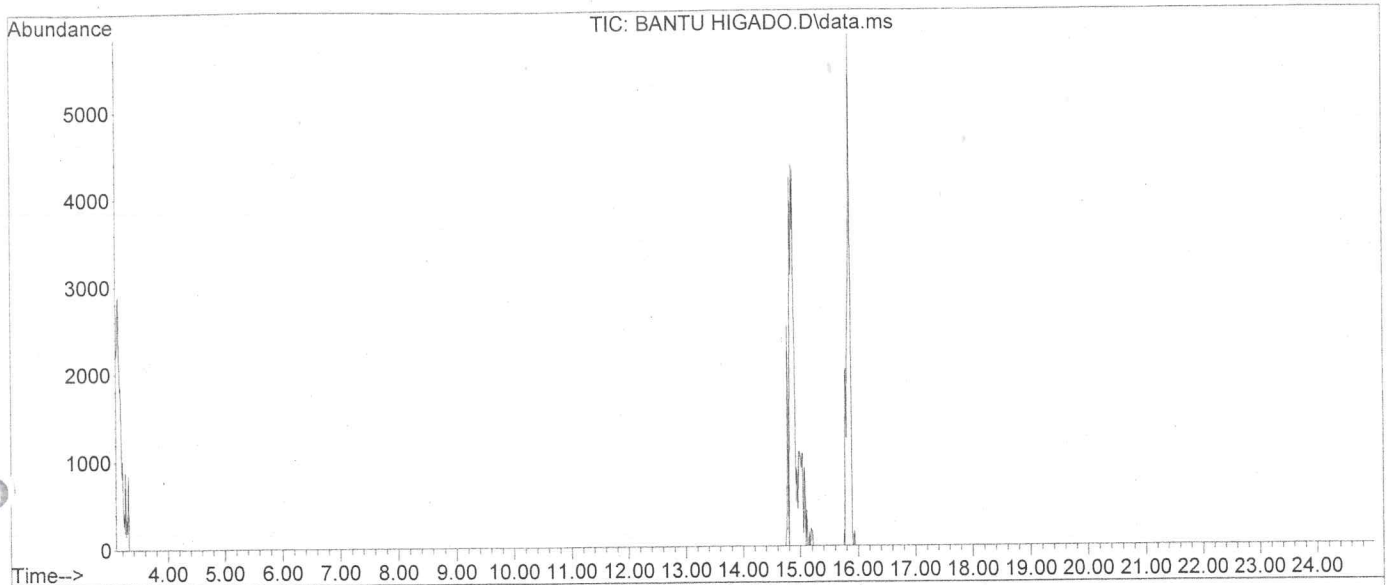
Estimated Kovats RI:
Value: 609 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

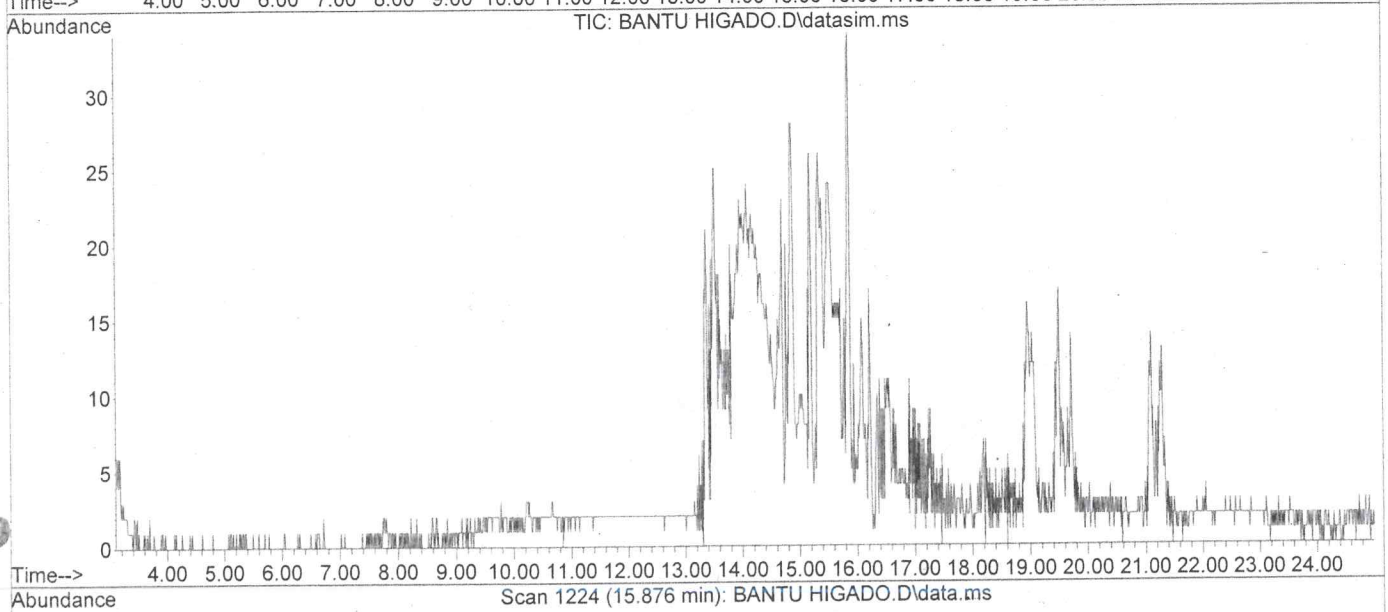
Kovats index
1. Value: 575 iu
Column Type: Capillary
Column Class: Standard non-polar
Active Phase: OV-101
Column Length: 50 m
Carrier Gas; He
Column Diameter: 0.24 mm
Data Type: Kovats RI
Program Type: Ramp
Source: Zenkevich, I.G.; Malamakhov, A.C. Evaluation of Molecular Weights of Organic Compounds based on Retention Parameters at Chromato-Spectral Analysys. Additional Criterion of Molecular Ions' Identification Vestn. St. Petersb. Univ. Ser. 4: Fiz. Khim, , 1987, 101-106, In original 101-106.

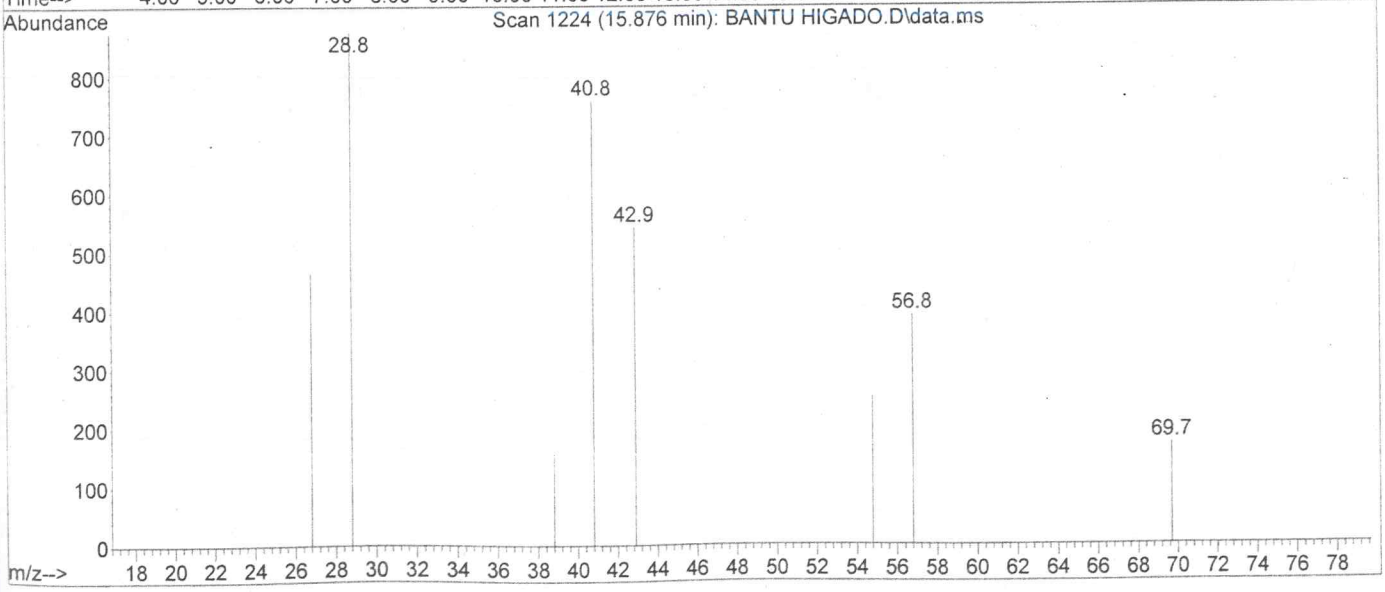
2. Value: 617 iu
Column Type: Capillary
Column Class: Standard non-polar
Active Phase: SPB-1
Column Length: 60 m
Carrier Gas: He
Column Diameter: 0.53 mm
Phase Thickness: 5 um
Data Type: Kovats RI
Program Type: Complex
Description: 40C(6min)=>5C/min=>80C=>10C/min=>200C
Source: Flanagan, R.J.; Streete, P.J.; Ramsey, J.D. Volatile Substance Abuse UNODC Technical Series, No 5, United Nations, Office on Drugs and Crime, Vienna International Centre, PO Box 500, A-1400 Vienna, Austria, 1997, 56.

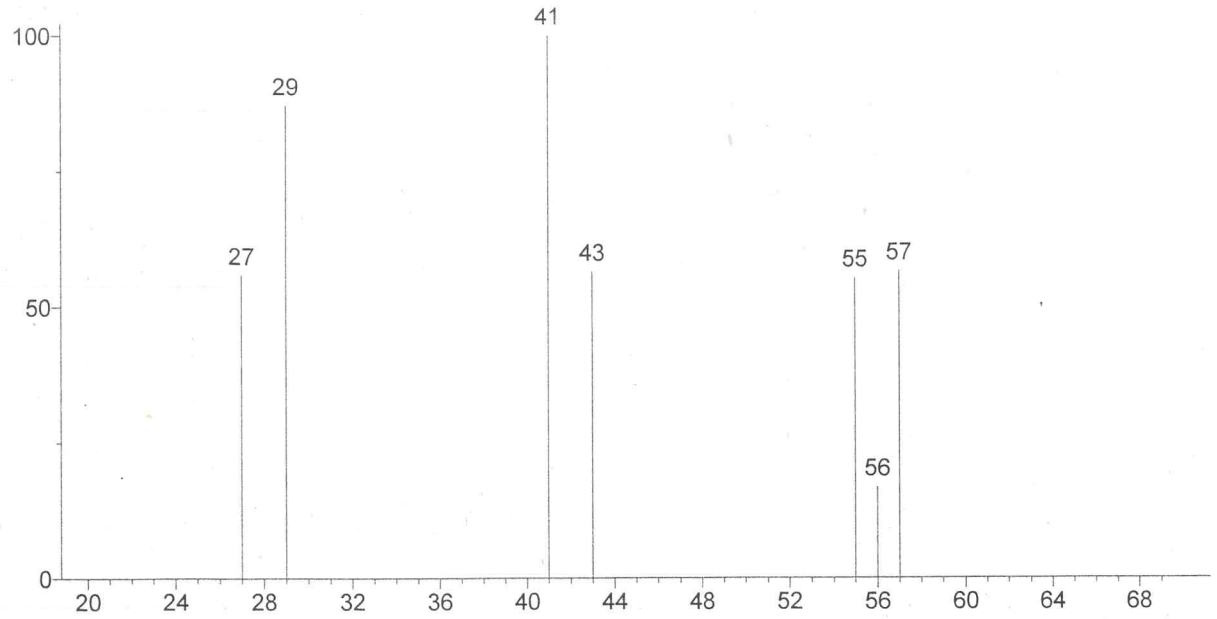
3. Value: 608 iu
Column Type: Capillary
Column Class: Standard non-polar
Active Phase: OV-1

File : D:\JLDR\Julio 2016\BANTU HIGADO.D
Operator :
Acquired : 25 Jul 2016 12:18 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU HIGADO
Misc Info :
Vial Number: 1

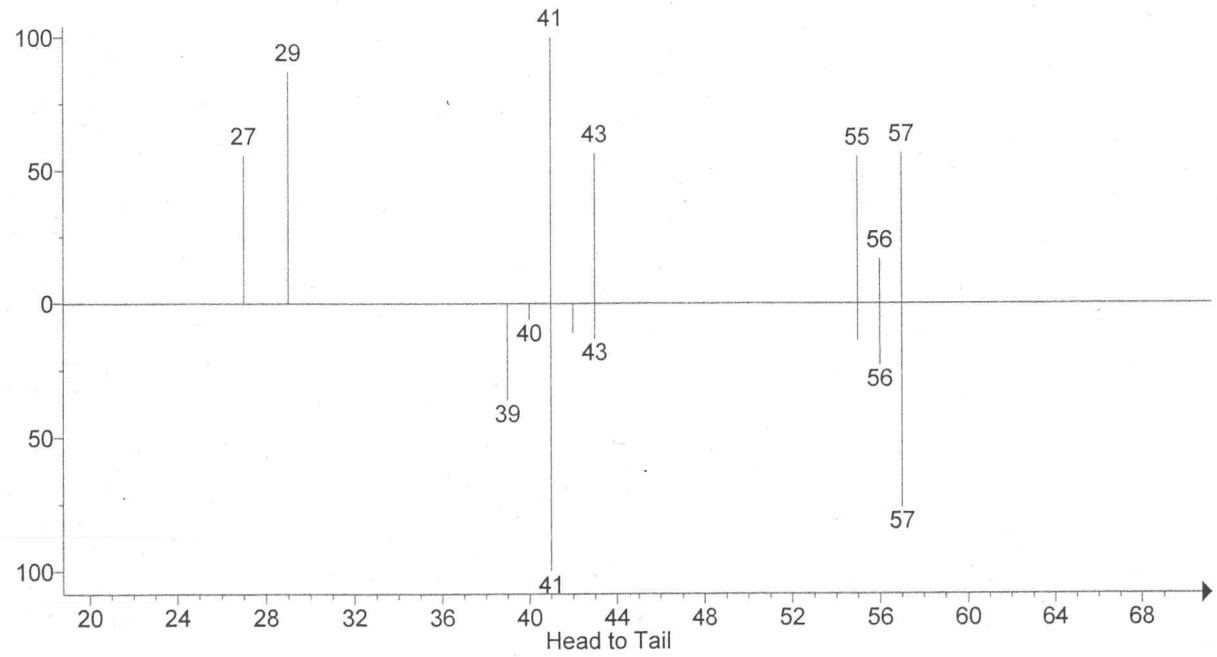


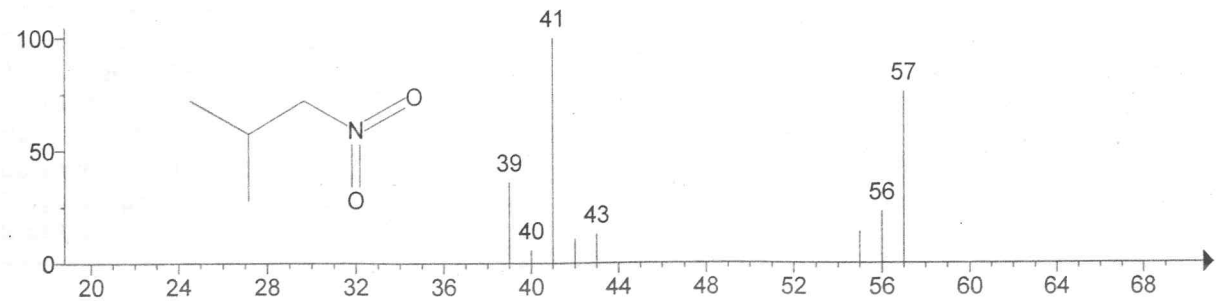






(Text File) Scan 1222 (15.855 min): BANTU HIGADO.D\data.ms




Head to Tail




(mainlib) Propane, 2-methyl-1-nitro-

Name: Propane, 2-methyl-1-nitro-
Formula: $C_4H_9NO_2$
MW: 103 CAS#: 625-74-1 NIST#: 65890 ID#: 2708 DB: mainlib
Other DBs: HODOC, NIH
Contributor: HCACAV,61(3)984(1978); P. DUBS AND H-P. SCHENK
9 largest peaks:
41 999 | 57 760 | 39 360 | 56 230 | 55 140 | 43 130 | 42 110 | 40 60 | 103 10 |
Synonyms:
1.2-Methyl-1-nitropropane
2.(CH3)2CHCH2NO2
3.1-Nitro-2-methylpropane
4.1-Nitroisobutane
5.2-Methyl-3-nitropropane

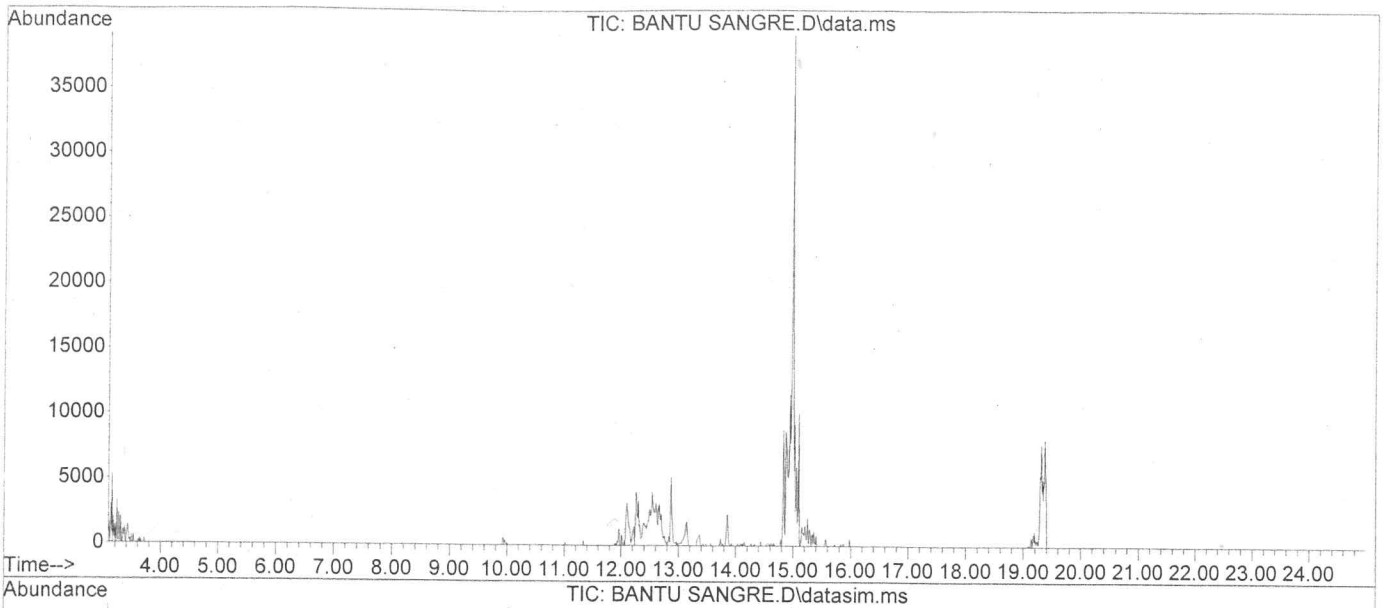
Estimated Kovats RI:
Value: 736 iu
Confidence interval (Nitrogen-containing): 83(50%) 356(95%) iu

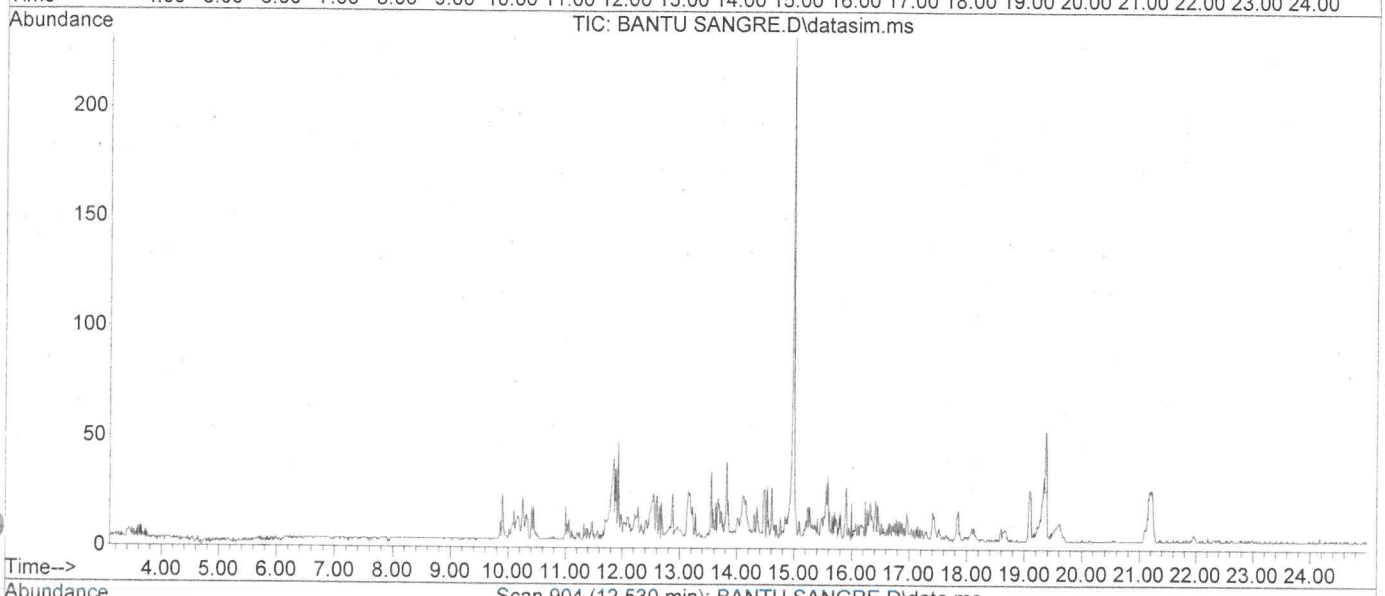
Kovats index
1. Value: 776 iu
Column Type: Packed
Column Class: Standard non-polar
Active Phase: SF-96
Column Length: 2 m
Carrier Gas: N2
Data Type: Kovats RI
Program Type: Isothermal
Start T: 110 C
Source: Boneva, S.; Dimov, N. Chromatographic retention indices of C1-C4 nitroparaffins Zh. Anal. Khim., 34(6), 1979, 902-905, In original 1170-1174.

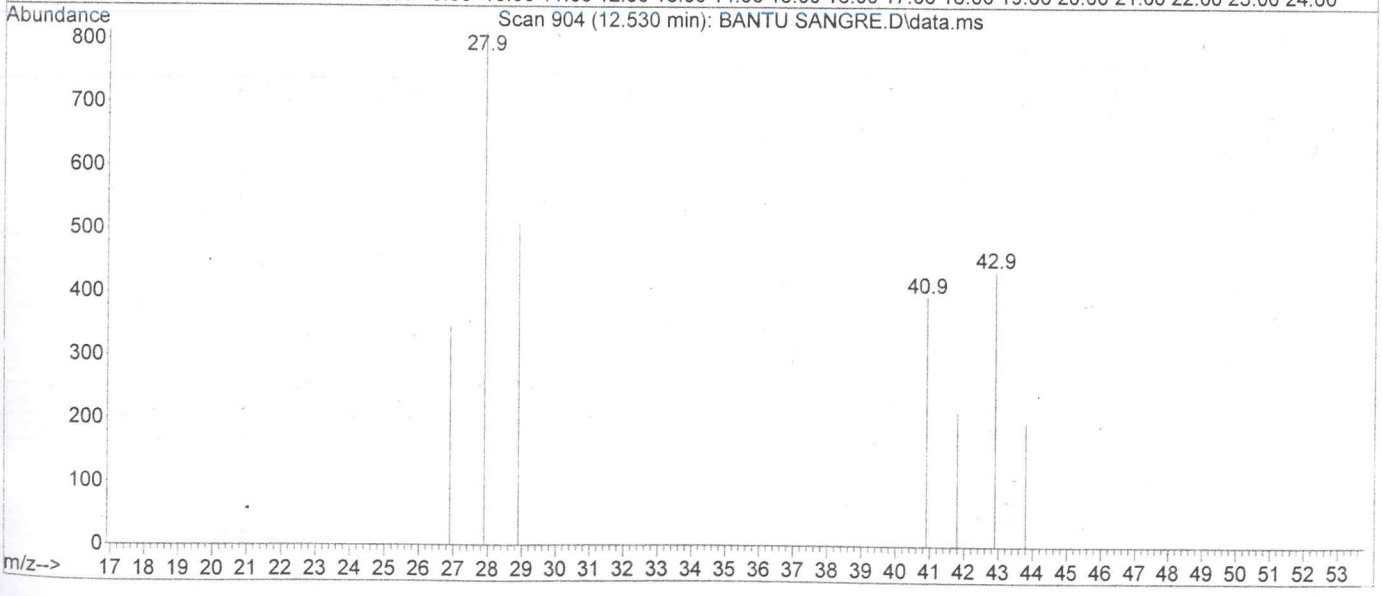
2. Value: 776 iu
Column Type: Packed
Column Class: Standard non-polar
Active Phase: SF-96
Column Length: 2 m
Carrier Gas: N2
Data Type: Kovats RI
Program Type: Isothermal
Start T: 100 C
Source: Boneva, S.; Dimov, N. Chromatographic retention indices of C1-C4 nitroparaffins Zh. Anal. Khim., 34(6), 1979, 902-905, In original 1170-1174.

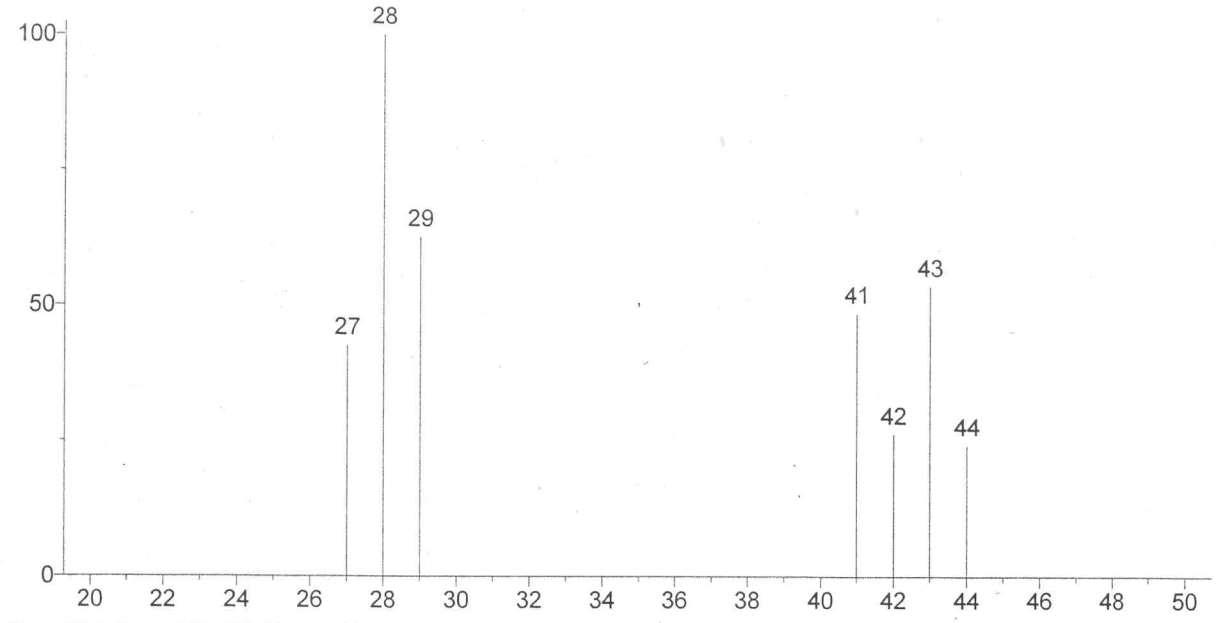
3. Value: 774 iu
Column Type: Packed
Column Class: Standard non-polar
Active Phase: SF-96
Column Length: 2 m
Carrier Gas: N2
Data Type: Kovats RI
Program Type: Isothermal
Start T: 90 C
Source: Boneva, S.; Dimov, N. Chromatographic retention indices of C1-C4 nitroparaffins Zh. Anal. Khim., 34(6), 1979, 902-905, In original 1170-1174.

File :D:\JLDR\Julio 2016\BANTU SANGRE.D
Operator :
Acquired : 20 Jul 2016 13:46 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU SANGRE
Misc Info :
Vial Number: 1

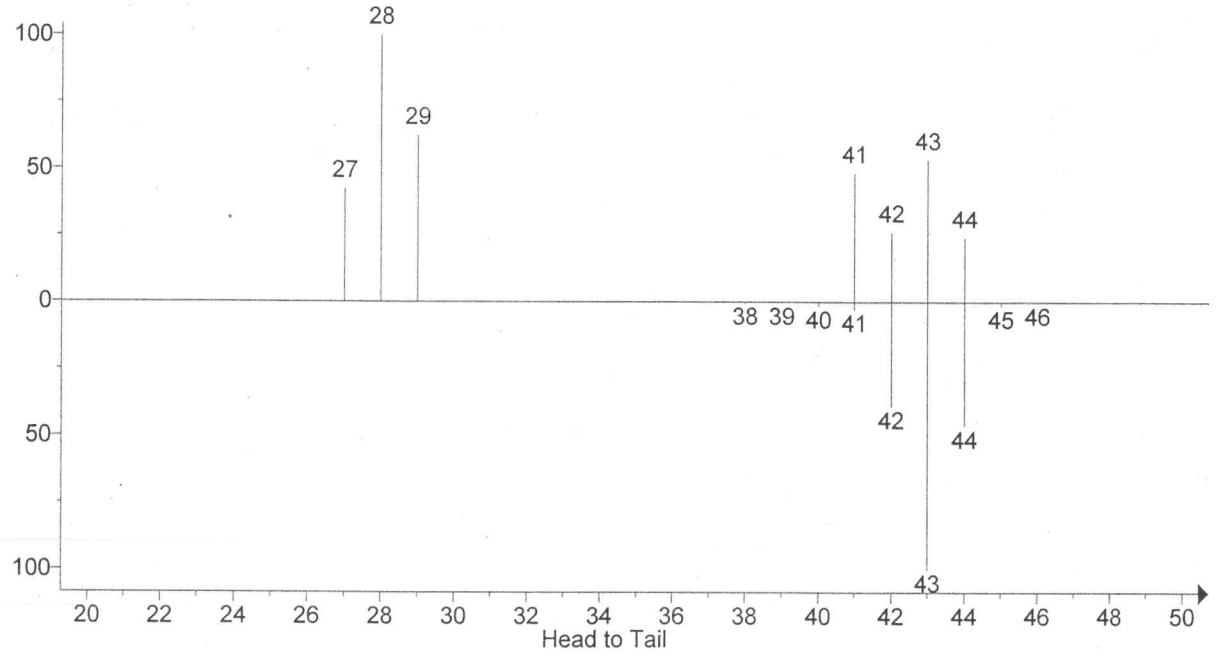


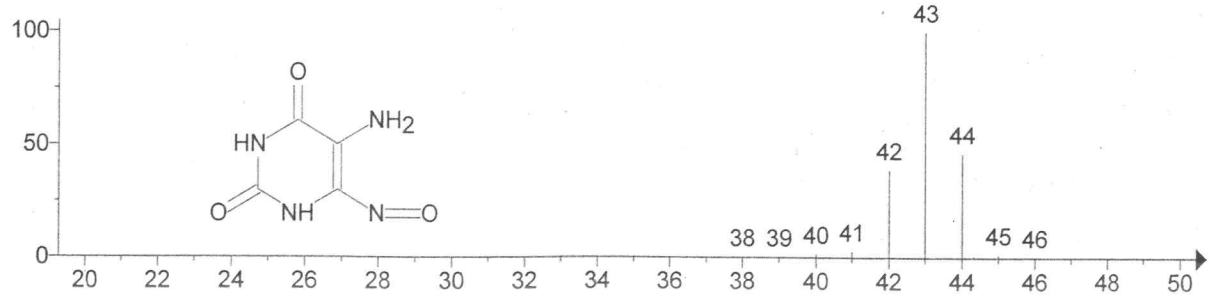






(Text File) Scan 904 (12.530 min): BANTU SANGRE.D\data.ms



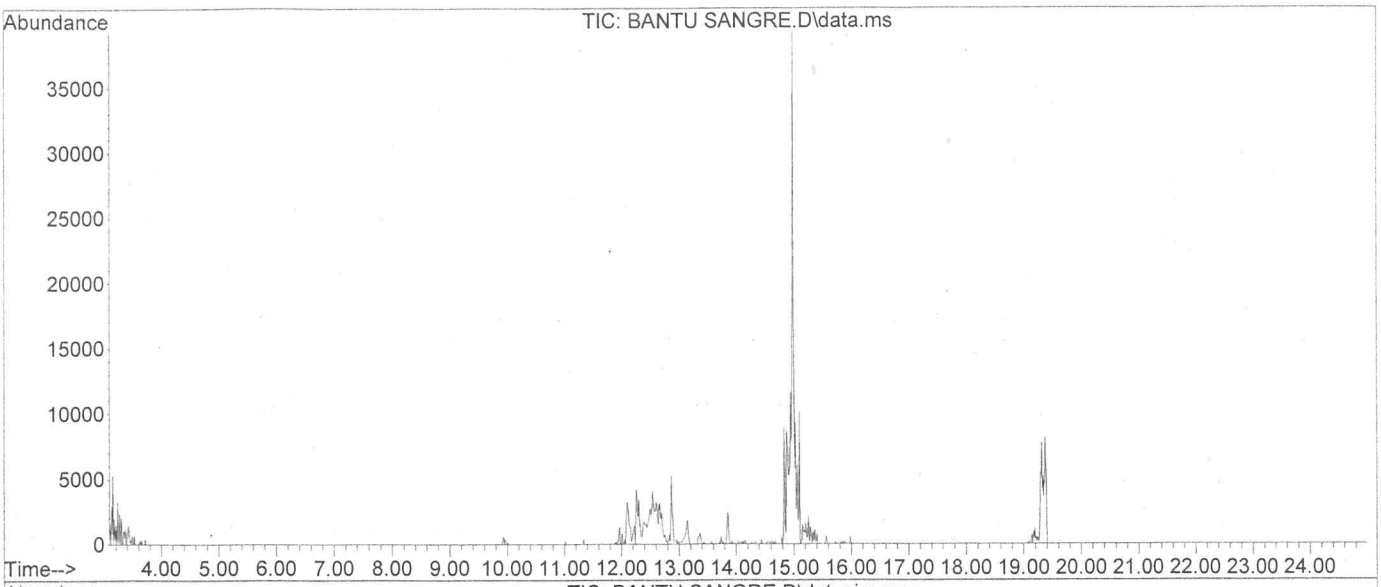



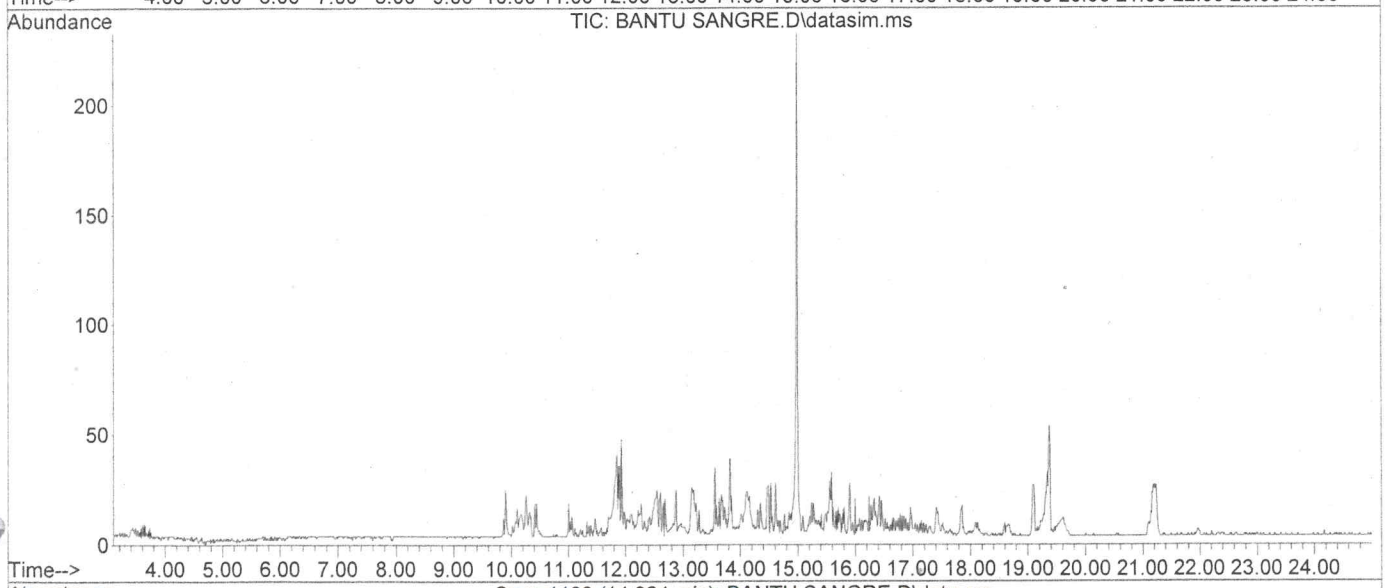

(mainlib) Pyrimidine-2,4(1H,3H)-dione, 5-amino-6-nitroso-

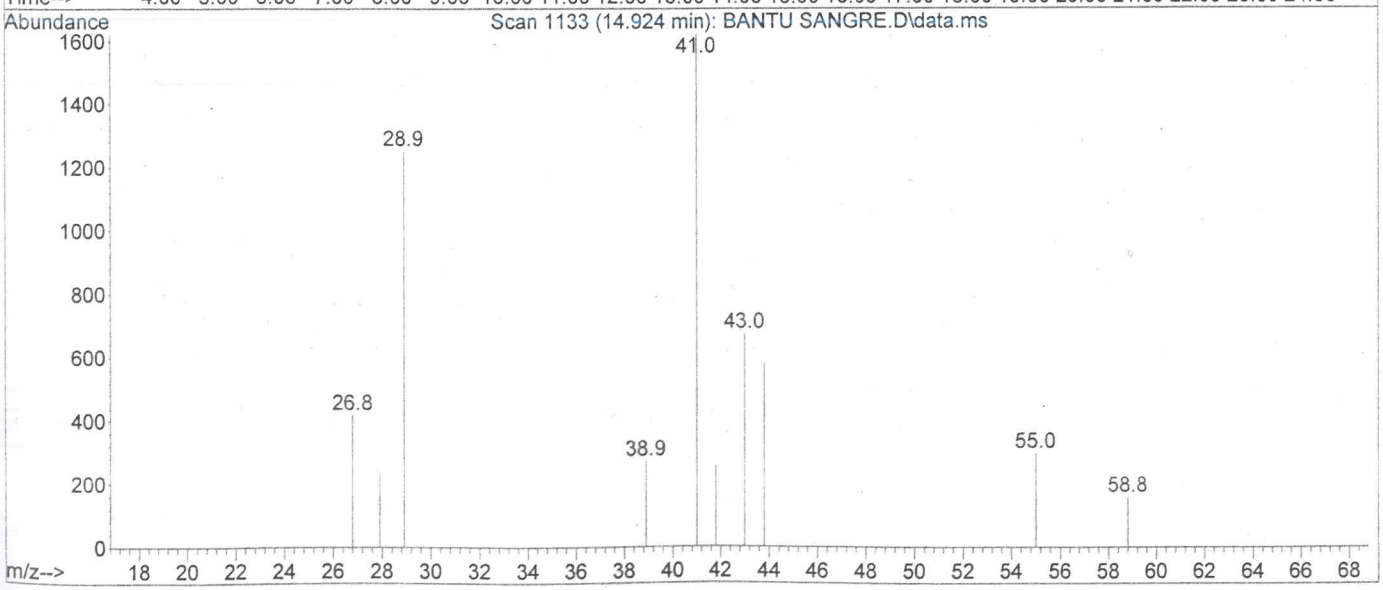
Name: Pyrimidine-2,4(1H,3H)-dione, 5-amino-6-nitroso-
Formula: $C_4H_4N_4O_3$
MW: 156 CAS#: N/A NIST#: 270677 ID#: 6021 DB: mainlib
Other DBs: None
Contributor: A.A.Kutin, Moscow, Russia
10 largest peaks:
43 999 | 44 461 | 42 389 | 41 27 | 40 15 | 45 14 | 70 7 | 126 7 | 113 6 | 53 5 |
Synonyms:
no synonyms.

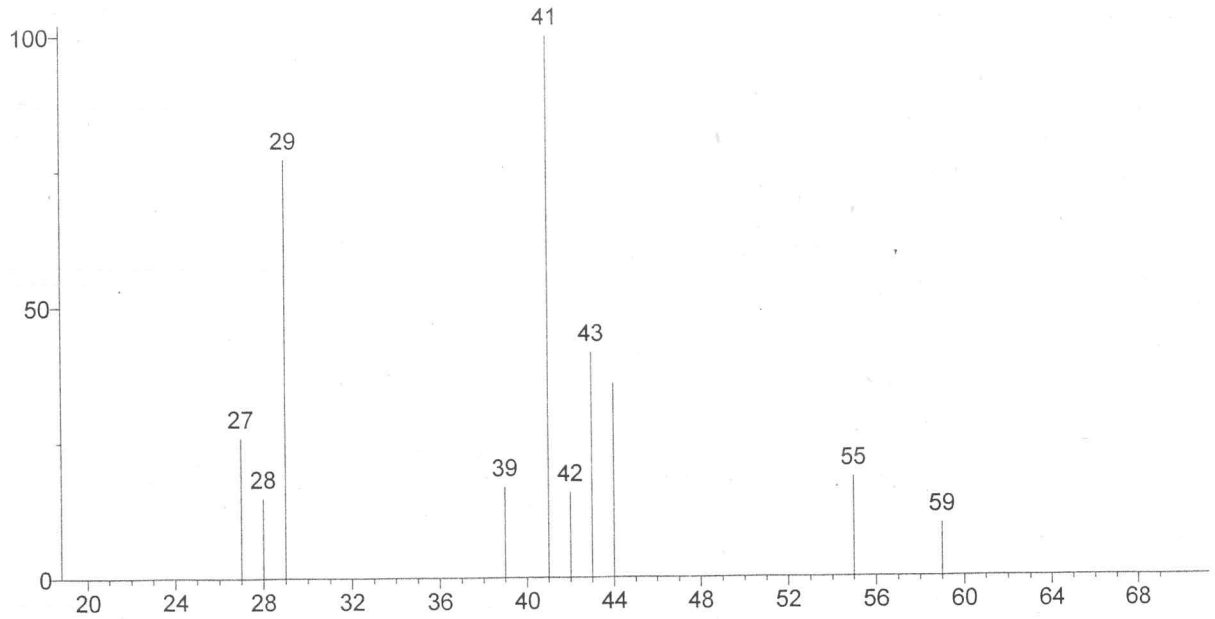
Estimated Kovats RI:
Value: 1365 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

File :D:\JLDR\Julio 2016\BANTU SANGRE.D
Operator :
Acquired : 20 Jul 2016 13:46 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU SANGRE
Misc Info :
Vial Number: 1

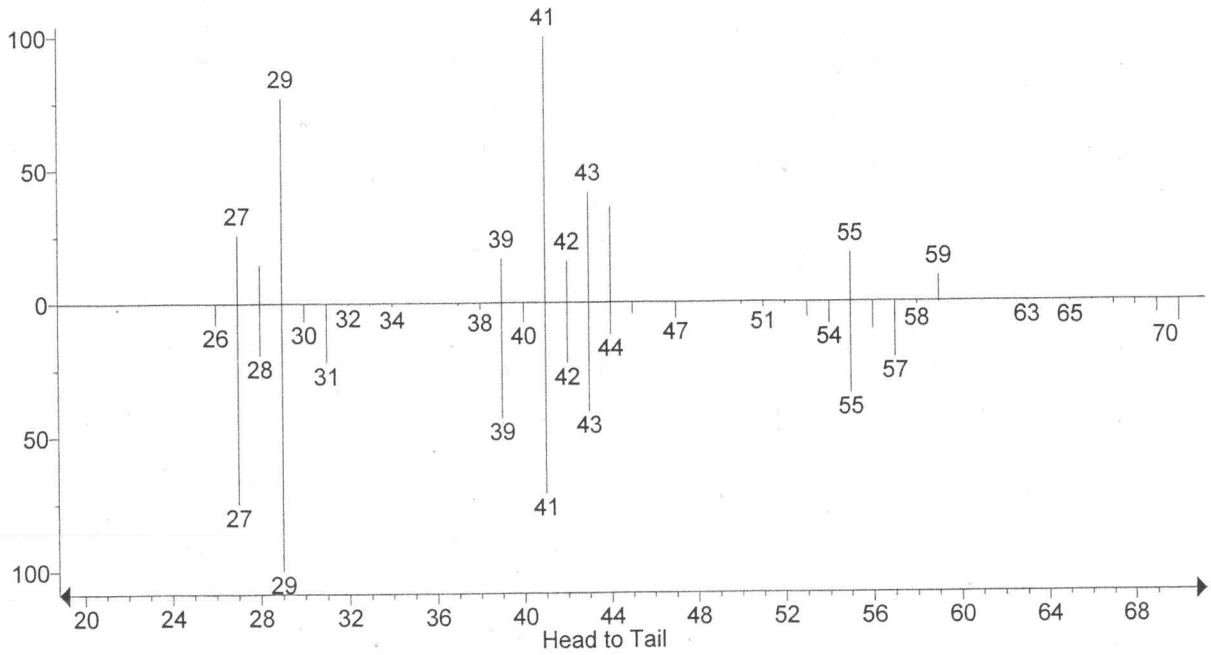


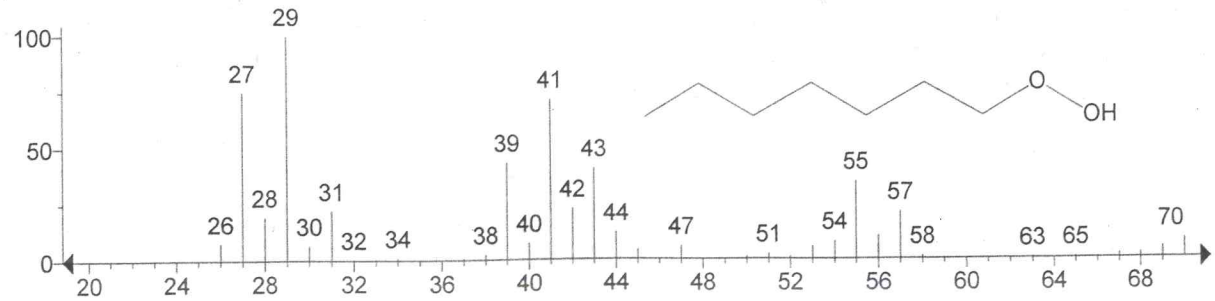






(Text File) Scan 1133 (14.924 min): BANTU SANGRE.D\data.ms



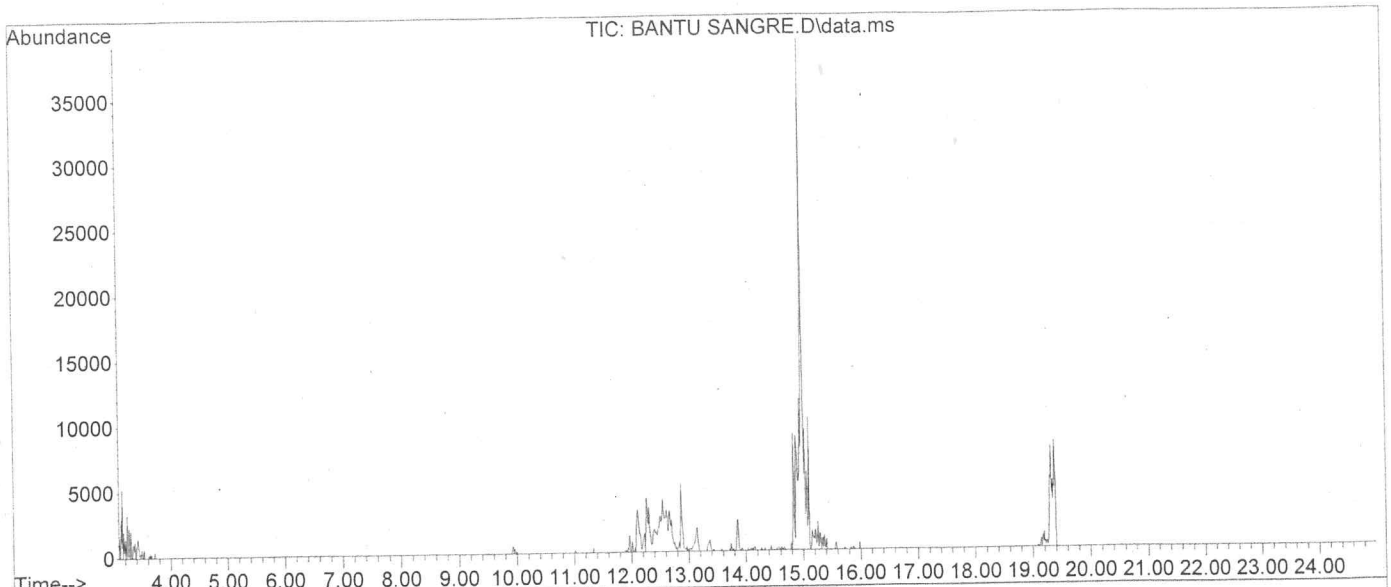



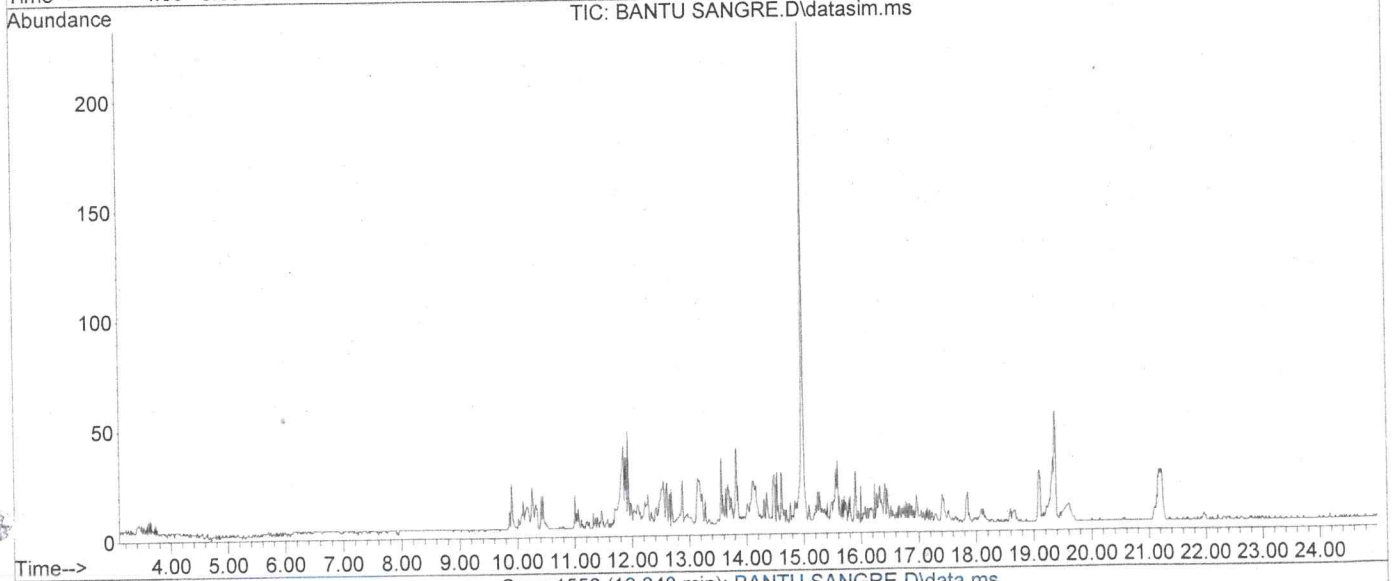

(mainlib) Hydroperoxide, heptyl

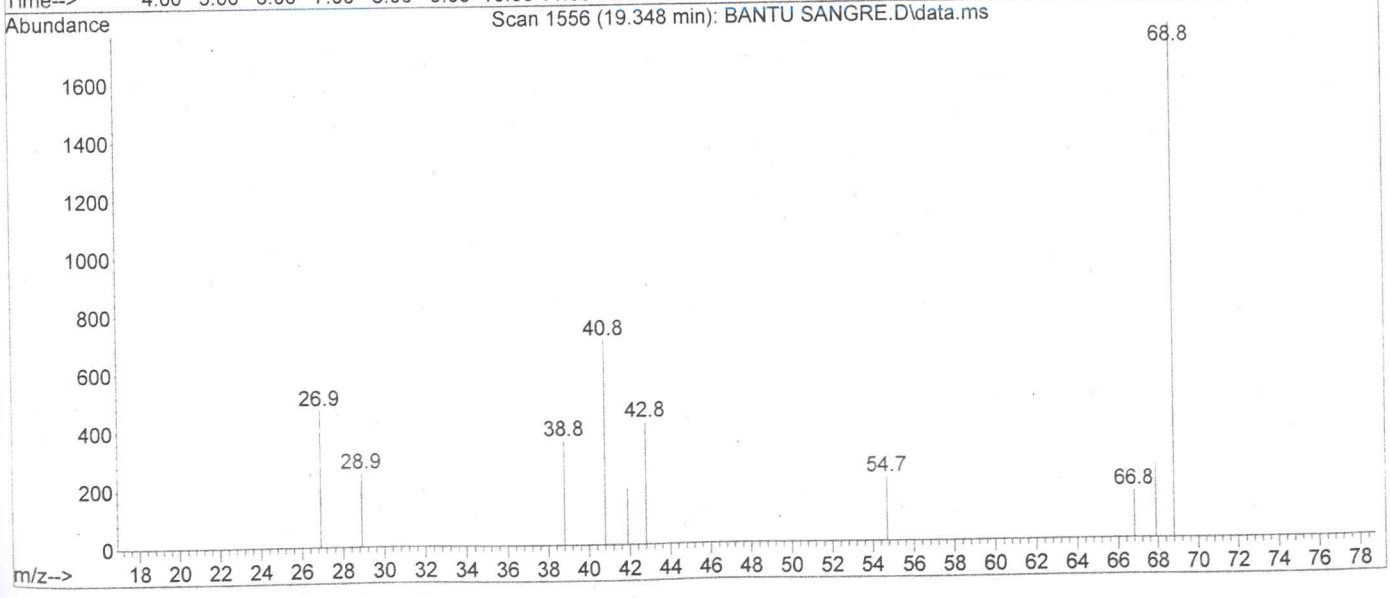
Name: Hydroperoxide, heptyl
Formula: $C_7H_{16}O_2$
MW: 132 CAS#: 764-81-8 NIST#: 28552 ID#: 354 DB: mainlib
Other DBs: None
10 largest peaks:
29 999 | 27 749 | 41 714 | 39 431 | 43 407 | 55 344 | 42 227 | 31 221 | 57 210 | 28 194 |
Synonyms:
1.Heptyl hydroperoxide
2.1-Heptyl hydroperoxide
3.1-Hydroperoxyheptane
4.n-C7H15OOH

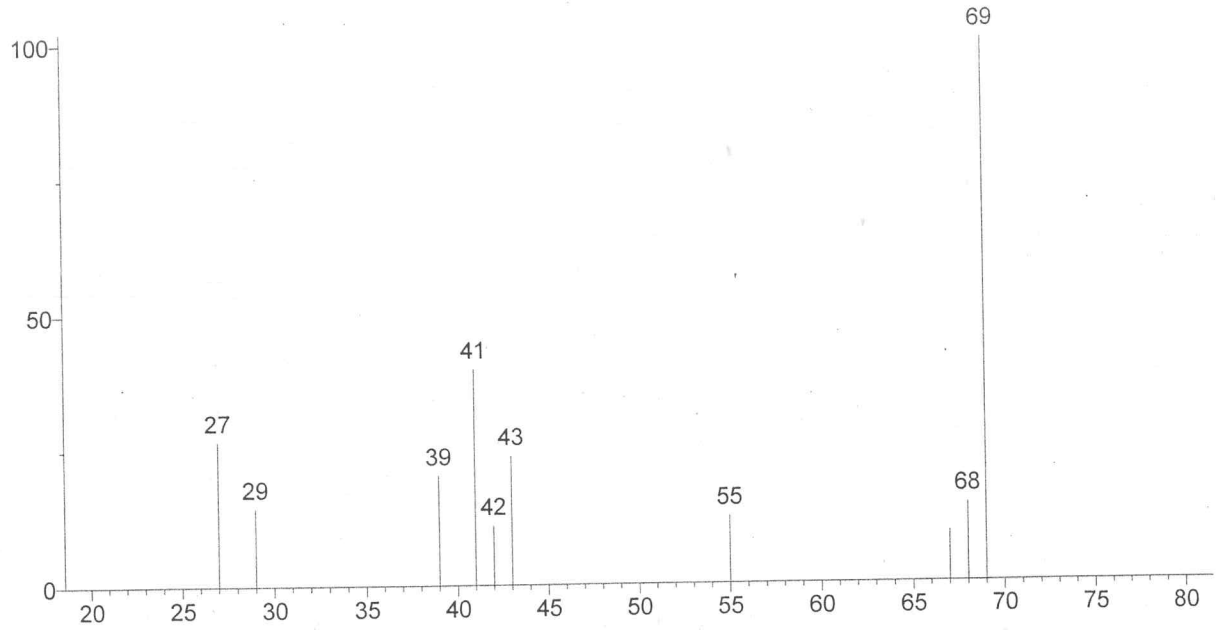
Estimated Kovats RI:
Value: 1077 iu
Confidence interval (Diverse functional groups): 89(50%) 382(95%) iu

File : D:\JLDR\Julio 2016\BANTU SANGRE.D
Operator :
Acquired : 20 Jul 2016 13:46 using AcqMethod ANESTE.M
Instrument : Instrument #1
Sample Name: BANTU SANGRE
Misc Info :
Vial Number: 1

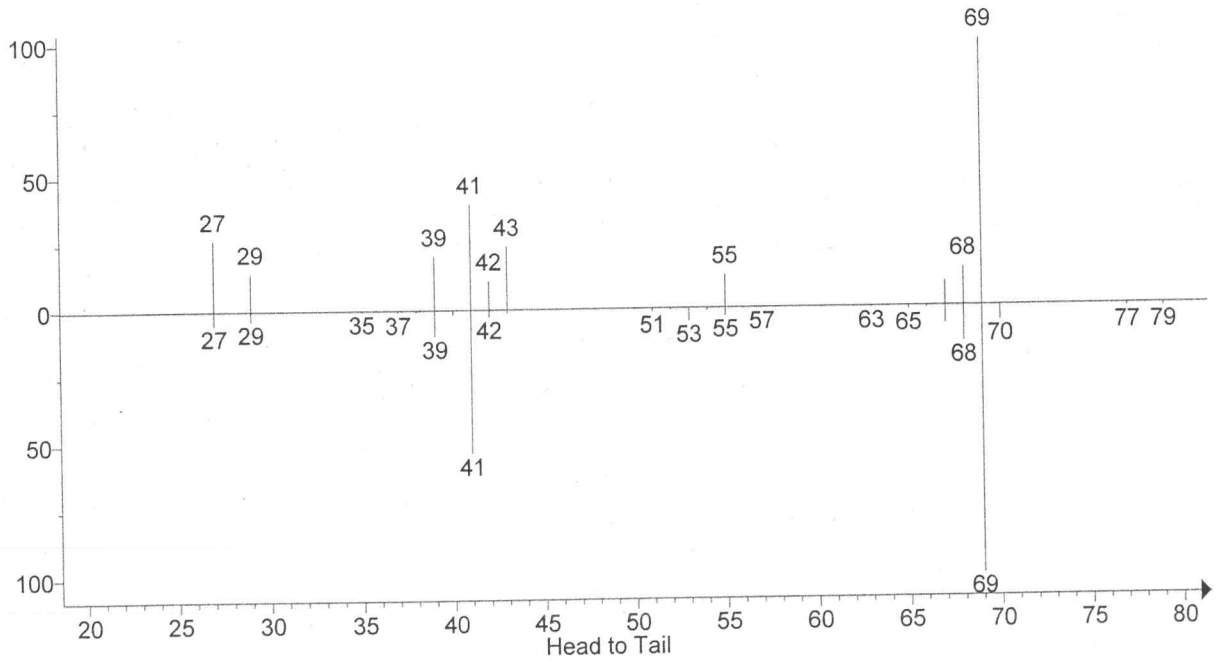


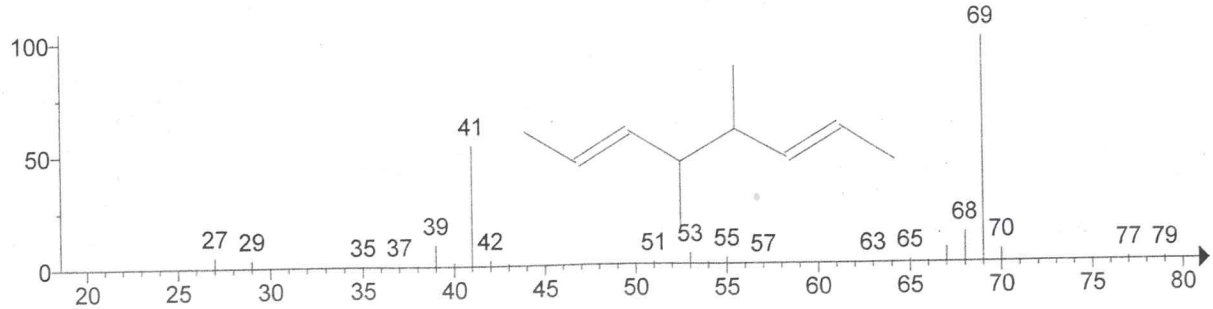






(Text File) Scan 1556 (19.348 min): BANTU SANGRE.D\data.ms




(mainlib) 2,6-Octadiene, 4,5-dimethyl-

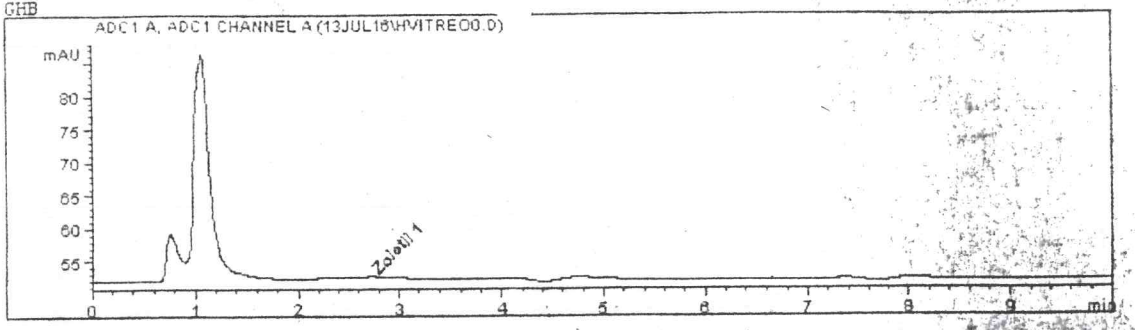
Name: 2,6-Octadiene, 4,5-dimethyl-
Formula: $C_{10}H_{18}$
MW: 138 CAS#: 18476-57-8 NIST#: 61716 ID#: 28155 DB: mainlib
Other DBs: HODOC
Contributor: D.HENNEBERG, MAX-PLANCK INSTITUTE, MULHEIM, WEST GERMANY
10 largest peaks:
69 999 | 41 536 | 68 134 | 39 97 | 67 66 | 70 56 | 27 50 | 53 49 | 29 35 | 55 30 |
Synonyms:
1.(2E,6E)-4,5-Dimethyl-2,6-octadiene #

Estimated Kovats RI:
Value: 903 iu
Confidence interval (Hydrocarbons): 39(50%) 167(95%) iu

Data File C:\HPCHEM\1\DATA\13JUL16\HVITRE00.D Sample Name: HVITRE0

1 EN 10 LUEGO 1 EN 25ML COLUMNA C18 4.6 POR 15MM POR 3
MICROMETROS DE TAMANO DE PARTICULA.
240 NM POR MEJOR RELACION SENAL / RUIDO

Injection Date : 7/13/2016 6:09:44 PM
Sample Name : HVITRE0 Location : -
Acq. Instrument : Instrument 1
Acq. Method : C:\HPCHEM\1\METHODS\ANTSIC0.M
Last changed : 7/13/2016 12:23:48 PM by
Analysis Method : C:\HPCHEM\1\METHODS\BANT...M
Last changed : 7/13/2016 5:54:31 PM by
GHB




External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, July 13, 2016 4:41:55 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

| RetTime [min] | Type | Area [mAU*s] | Amt/Area | Amount [mcg/ml] | Grp | Name |
|---|---|---|---|---|---|---|
| 2.731 | BV + | 6.41558 | 1.39022e-2 | 8.91907e-2 | | Zoletil 1 |
| 9.156 | | - | - | - | | Zoletil 2 |
| 9.995 | | - | - | - | | Ketamina |

Totals : 8.91907e-2

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Retention Time Adjustments for Peak Identification

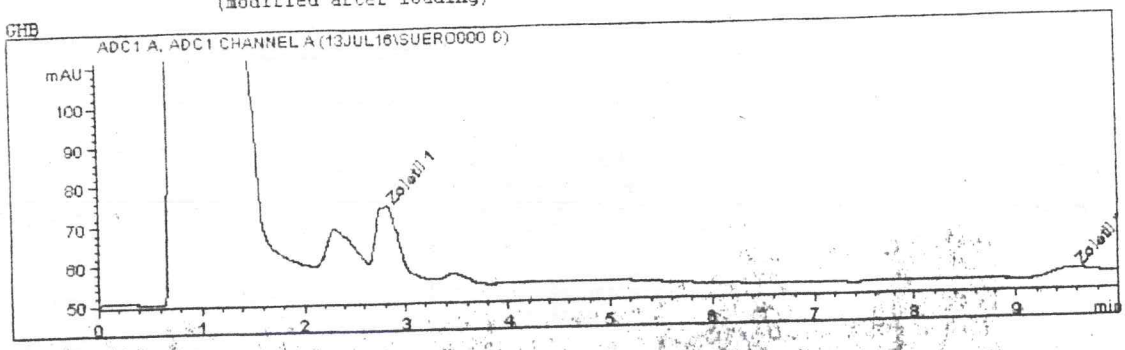
Reference Peak: Zoletil 1
Expected Time : 2.884 min
Measured Time : 2.731 min
Deviation : -5.307 % (used to adjust time windows of other peaks)

Sample Name: BANTU

Data File C:\HPCHEM\1\DATA\13JUL16\SUERO000.D

1 EN 10 LUEGO 1 EN 25ML COLUMNA C18 4.6 POR 15MM POR 3
MICROMETROS DE TAMANO DE PARTICULA.
240 NM POR MEJOR RELACION SENAL / RUIDO

Injection Date : 7/13/2016 4:56:36 PM
Sample Name : BANTU Location : -
:
:
Acq. Method : C:\HPCHEM\1\METHODS\ANTSICO.M
Last changed : 7/13/2016 12:23:48 PM
Analysis Method : C:\HPCHEM\1\METHODS\BANT" "
Last changed : 7/13/2016 5:39:09 PM by
(modified after loading)




External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, July 13, 2016 4:41:55 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

| RetTime [min] | Type | Area [mAU*s] | Amt/Area | Amount [mcg/ml] | Grp | Name |
|---|---|---|---|---|---|---|
| 2.824 | VV + | 463.11899 | 1.39022e-2 | 6.43837 | | Zoletil 1 |
| 9.578 | PB | 124.98631 | 2.16314e-2 | 2.70363 | | Zoletil 2 |
| 10.335 | | - | - | - | | Ketamina |
| Totals : | | | | 9.14200 | | |

Results obtained with enhanced integrator!
1 Warnings or Errors :

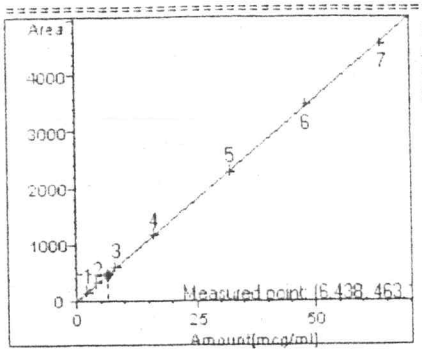
Warning : Calibrated compound(s) not found

Retention Time Adjustments for Peak Identification

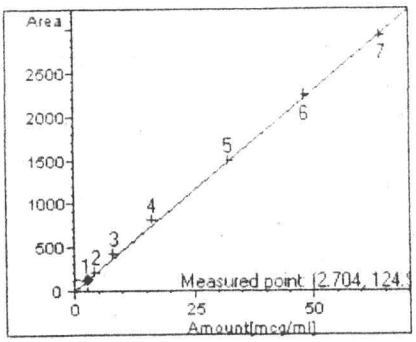
Reference Peak: Zoletil 1
Expected Time : 2.884 min
Measured Time : 2.824 min
Deviation : -2.084 % (used to adjust time windows of other peaks)

Data File C:\HPCHEM\1\DATA\13JUL16\SUER0000.D Sample Name: BANTU

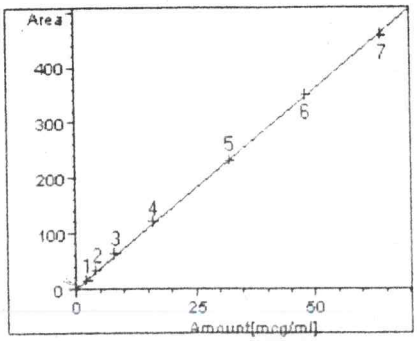
Calibration Curves




Zoletil 1 at exp. RT: 2.884
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99994
Residual Std. Dev.: 28.49558
Formula: y = mx
m: 71.93106
x: Amount[mcg/ml]
y: Area




Zoletil 2 at exp. RT: 9.669
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99975
Residual Std. Dev.: 37.00100
Formula: y = mx
m: 46.22912
x: Amount[mcg/ml]
y: Area




Ketamina at exp. RT: 10.555
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99991
Residual Std. Dev.: 3.54781
Formula: y = mx
m: 7.22353
x: Amount[mcg/ml]
y: Area

*** End of Report ***

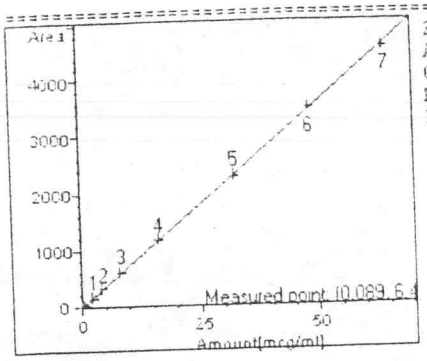


F N DEL DOCUMENTO

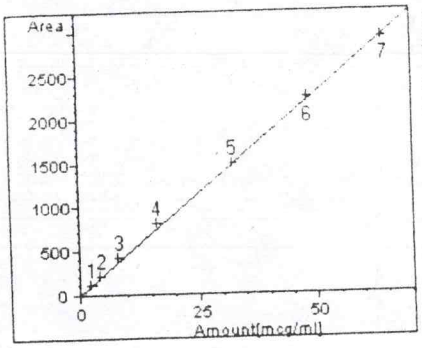
Data File C:\HPCHEM\1\DATA\13JUL16\HVITRE00.D

Sample Name: HVITRE0

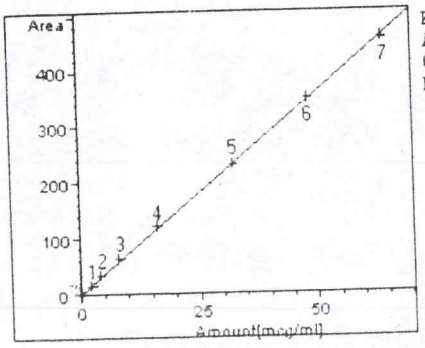
Calibration Curves




Zoletil 1 at exp. RT: 2.884
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99994
Residual Std. Dev.: 28.49558
Formula: y = mx
m: 71.93106
x: Amount[mcg/ml]
y: Area




Zoletil 2 at exp. RT: 9.669
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99975
Residual Std. Dev.: 37.00100
Formula: y = mx
m: 46.22912
x: Amount[mcg/ml]
y: Area




Ketamina at exp. RT: 10.555
ADC1 A, ADC1 CHANNEL A
Correlation: 0.99991
Residual Std. Dev.: 3.54781
Formula: y = mx
m: 7.22353
x: Amount[mcg/ml]
y: Area

*** End of Report ***