Lampiran 1. Perhitungan Pembuatan ZnO-PILS dan ZnO--PCH

1. Larutan Saponit ZnO-PILS dan ZnO-PCH

$$mol\ saponit = \frac{massa\ saponit}{Mr\ saponit} = \frac{5\ gram}{480{,}19\ g/mol} = 0{,}01\ mol = 10\ mmol$$

$$mol\ CTAB = \frac{massa\ CTAB}{Mr\ CTAB} = \frac{3\ gram}{364{,}46\ g/mol} = 0{,}008\ mol = 8\ mmol$$

$$mol\ TMAOH = \frac{massa\ TMAOH}{Mr\ TMAOH} = \frac{1{,}015\ gram}{91{,}154 g/mol} = 0{,}01\ mol = 10\ mmol$$

2. Larutan Penilar

$$mol\ Zn - asetat = \frac{massa\ Zn - asetat}{Mr\ Zn - asetat} = \frac{4{,}43\ gram}{219{,}50\ g/mol}$$

$$= 0{,}02\ mol = 20\ mmol = 4\ mmol/g$$

$$massa\ Zn = Ar\ Zn\ \times mol\ Zn - asetat$$

$$= 65{,}39\ g/mol \times 0{,}004\ mol = 0{,}261\ gram$$

$$\%b/b\ Zn = \frac{massa\ Zn}{massa\ saponit} \times 100\%$$

$$= \frac{0{,}261\ gram}{5\ gram} \times 100\% = 5{,}2\ \%\ b/b$$

$$mol\ TEOS = \frac{massa\ TEOS}{Mr\ TEOS} = \frac{4{,}7\ gram}{208{,}33\ g/mol}$$

$$= 0{,}02\ mol = 20\ mmol = 4\ mmol/g$$

$$massa\ Si = Ar\ Si \times mol\ TEOS$$

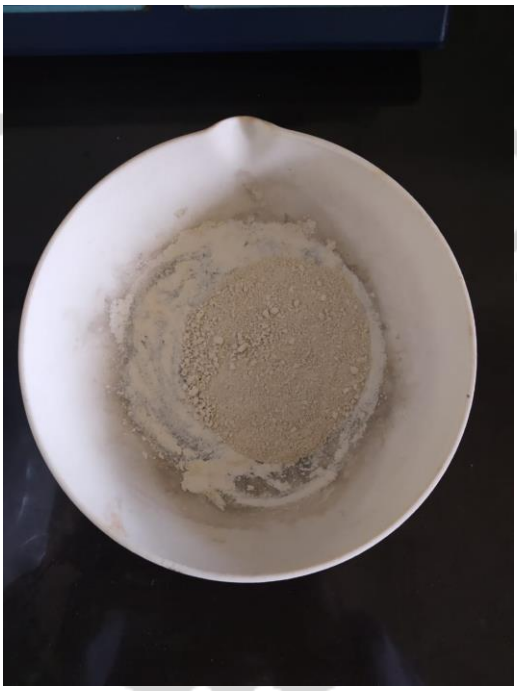
$$= 28{,}085\ g/mol \times 0{,}004\ mol = 0{,}0{,}126\ gram$$

$$\%b/b\ Si = \frac{massa\ Si}{massa\ saponit} \times 100\%$$

$$= \frac{0{,}126\ gram}{5\ gram} \times 100\% = 2{,}5\ \%\ b/b$$

Lampiran 2. Pembuatan Katalis ZnO-PILS dan ZnO-PCH

a. Hasil katalis ZnO-PILS yang telah dikalsinasi



b. Hasil katalis ZnO-PCH yang telah dikalsinasi

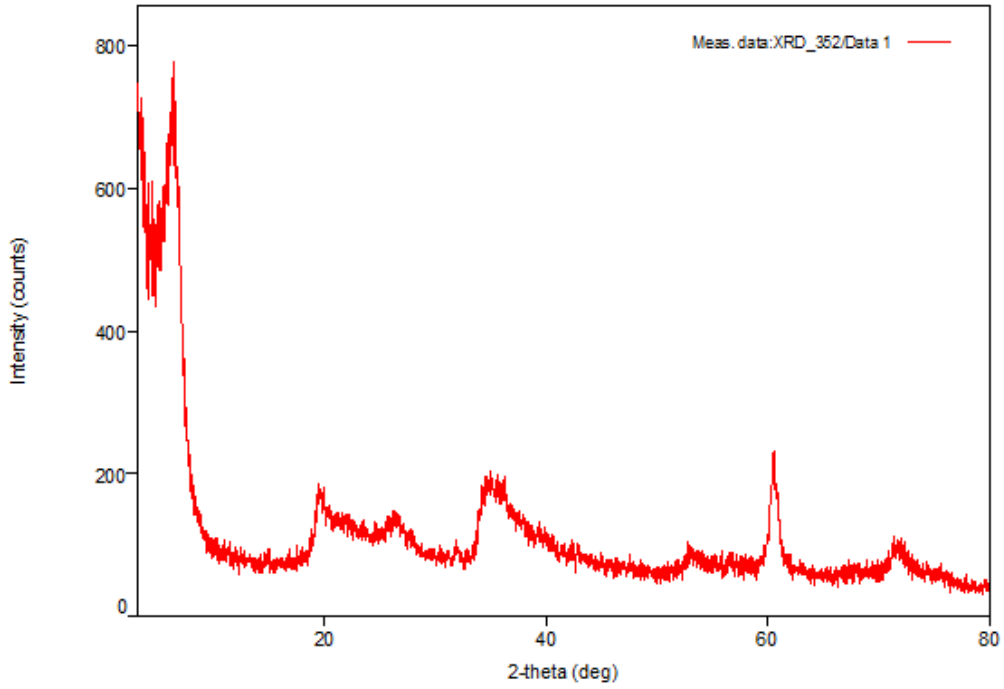
Lampiran 3. Hasil Analisis XRD

a. Hasil XRD katalis ZnO-PILS

General information

Analysis date	2019/05/06 11:06:19		
Sample name	XRD/Zn-PILS B	Measurement date	2019/05/06 10:54:48
File name	XRD_352.raw	Operator	
Comment			

Measurement profile

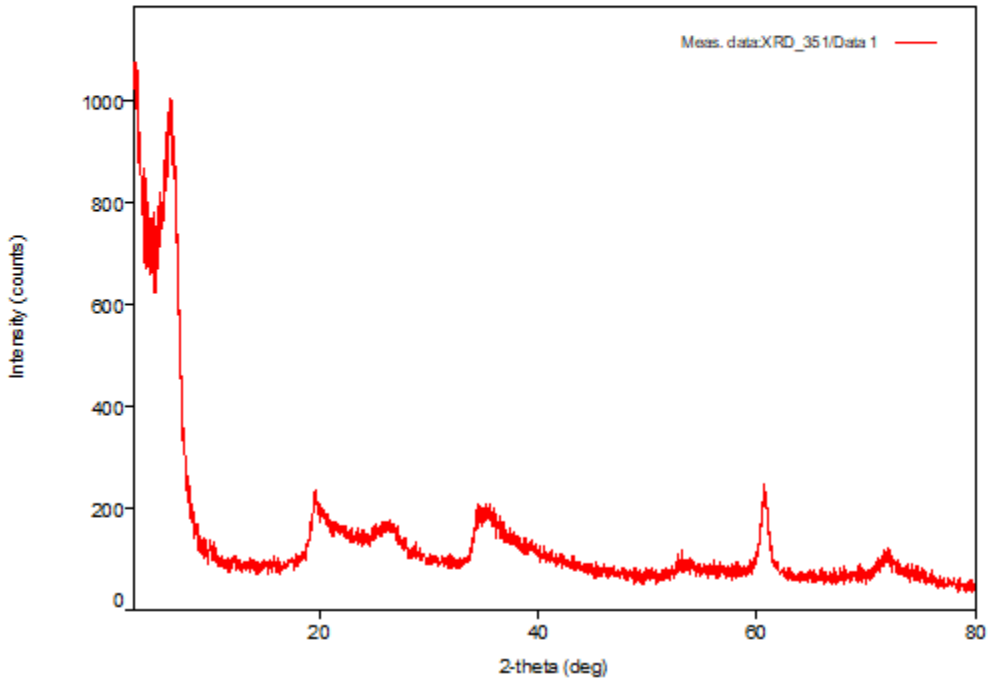


b. Hasil XRD katalis ZNO-PCH

General information

Analysis date	2019/05/06 11:05:04		
Sample name	XRD/Zn-PCH	Measurement date	2019/05/06 10:43:25
File name	XRD_351.raw	Operator	
Comment			

Measurement profile



Lampiran 4. Hasil Analisis GSA

a. Grafik isotherm ZnO-PILS

LABORATORIUM TEKNIK KIMIA
INSTITUT TEKNOLOGI BANDUNG
Quantachrome TouchWin v1.2

Report date: Sel Apr 23 2019 **Operator:** operator
Filename: 44 Pts Full Isotherm - St2_20190422_153351.qps\Physiso

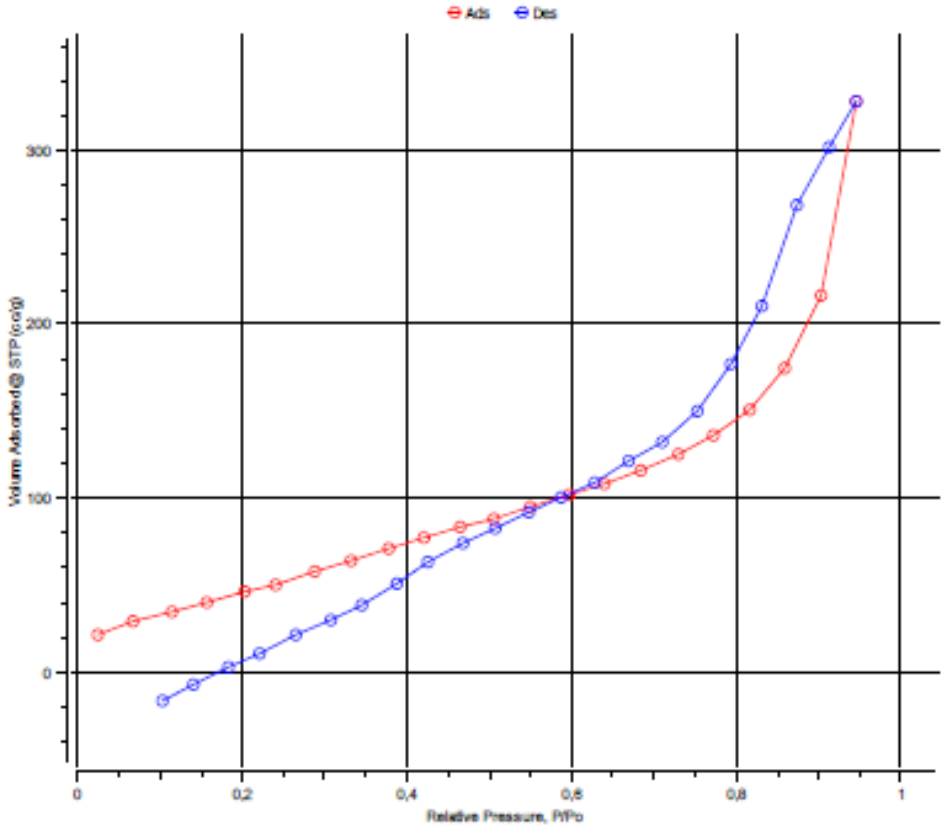
Analysis Information

Sample
ID Znsafonit_is **Weight** 0,0519 g
Description
Analysis
Data ID {5e8abb20-23a5-4a87-9804-6d66980ce5b5}
Operator operator **Date** 2019.04.22 **Duration** 449,767 min
Instrument St 2 on NOVA touch 4LX [s/n:17018063001] **Firmware** 1.04
Comments
Ambient Temp. 38,335 °C **Void Volume Mode** NOVA mode **Cell ID** 22
Cell Type 9mm with rod **Thermal Delay** 600 sec **Po Mode** Continuous
Adsorbate
Name Nitrogen **Molecular Weight** 28,013 g/mol **Cross Section Area** 16,2 Å²/mol
Non-ideality 6,58e-005 1/atm **Bath Temperature** 77,35 K
Degas Information
Type Vacuum Degassing
Operator
Description

Data Reduction Parameters

Thermal Transpiration no

Graph - Isotherm Isotherm



b. Grafik isotherm ZnO-PCH

UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang Km 14.5, Sleman Yogyakarta
LABORATORIUM TERPADU
Quantachrome TouchWin v1.11

Quantachrome

Report date: Fri Nov 8 2019 **Operator:** Lab Terpadu
Filename: 3147_Zn PCH A.qcuPhysIso

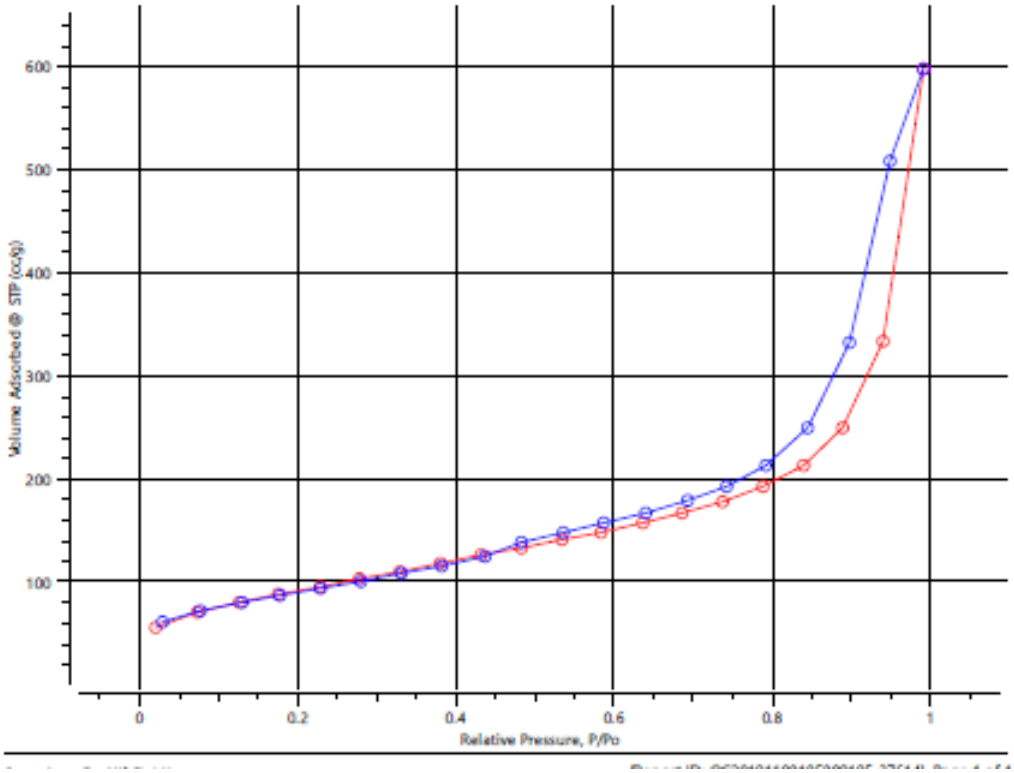
Analysis Information

Sample
ID A Weight 0.0696 g
Description Zn PCh A
Analysis
Data ID {93fde223-3672-4038-ab66-73d7869367a6}
Operator Date 2019.11.07 Duration 1090.5 min
Instrument St 1 on NOVA touch 4LX [s/n:17017051001] Firmware 1.0
Comments description of sample
Ambient Temp. 0 c Void Volume Mode NOVA mode Cell ID 21
Cell Type 9mm w/o rod Thermal Delay 600 sec Po Mode Continuous
Adsorbate
Name Nitrogen Molecular Weight 28.013 g/mol Cross Section Area 16.2 Å²/mol
Non-ideality 6.58e-005 1/Torr Bath Temperature 77.35 K
Degas information
Time 1 hours Temp. 90 c

Data Reduction Parameters

Thermal Transpiration no

Graph - Isotherm Isotherm



c. Summary ZnO-PILS

LABORATORIUM TEKNIK KIMIA
INSTITUT TEKNOLOGI BANDUNG
Quantachrome TouchWin v1.2

Report date:	Sel Apr 23 2019	**Operator:**	operator
Filename:	44 Pts Full isotherm - St2_20190422_153351.qcuPhysIso		

Analysis Information

Sample

ID	Znsafonit_is	**Weight**	0,0519 g		
Description					

Analysis

Data ID	{5e8abb20-23a5-4a87-9804-6d66980ce5b5}				
Operator	operator	**Date**	2019.04.22	**Duration**	449,767 min
Instrument	St 2 on NOVA touch 4LX [s/n:17018063001]			**Firmware**	1.04
Comments					
Ambient Temp.	38,335 °C	**Void Volume Mode**	NOVA mode	**Cell ID**	22
Cell Type	9mm with rod	**Thermal Delay**	600 sec	**Po Mode**	Continuous

Adsorbate

Name	Nitrogen	**Molecular Weight**	28,013 g/mol	**Cross Section Area**	16,2 Å²/mol
Non-ideality	6,58e-005 1/torr	**Bath Temperature**	77,35 K		

Degas information

Type	Vacuum Degassing
Operator	
Description	

Data Reduction Parameters

Thermal Transpiration	no				
Temp. Comp	yes				
Thickness Method	deBoer				

Adsorbate Model

Name	Nitrogen	**Molecular Weight**	28,0134 g	**Cross Section Area**	16,2 Å²/molec
Bath Temperature	77,35 K				

Total Pore Volume results

Total Pore Volume	5,0926e-001 cc/g
for pores smaller than	18,64 nm (radius)
at relative pressure	0,94557

d. Summary ZnO-PCH

UNIVERSITAS ISLAM INDONESIA
Jl. Kaliurang Km 14.5, Sleman Yogyakarta
LABORATORIUM TERPADU
Quantachrome TouchWin v1.11

Report date:	Fri Nov 8 2019	**Operator:**	Lab Terpadu
Filename:	3147_Zn PCH A.qcuPhysIso		

Analysis Information

Sample

ID	A	**Weight**	0.0696 g		
Description	Zn PCh A				

Analysis

Data ID	{93fde223-3672-4038-ab66-73d7869367a6}				
Operator		**Date**	2019.11.07	**Duration**	1090.5 min
Instrument	St 1 on NOVA touch 4LX [s/n:17017051001]			**Firmware**	1.0
Comments	description of sample				
Ambient Temp.	0 °C	**Void Volume Mode**	NOVA mode	**Cell ID**	21
Cell Type	9mm w/o rod	**Thermal Delay**	600 sec	**Po Mode**	Continuous

Adsorbate

Name	Nitrogen	**Molecular Weight**	28.013 g/mol	**Cross Section Area**	16.2 Å²/mol
Non-ideality	6.58e-005 1/torr	**Bath Temperature**	77.35 K		

Degas information

Time	1 hours	**Temp.**	90 °C

Data Reduction Parameters

Thermal Transpiration	no				
Temp. Comp	no				
Thickness Method	deBoer				
P-tags below 0.35	ignored			**Moving Pt. Average**	off

Adsorbate Model

Name	Nitrogen	**Molecular Weight**	28.0134 g	**Cross Section Area**	16.2 Å²/molec
Bath Temperature	77.35 K				

Area-Volume Summary results

Surface Area Results

Multipoint BET	335.489 m²/g
BJH adsorption	174.529 m²/g
BJH desorption	241.437 m²/g

Pore Volume Results

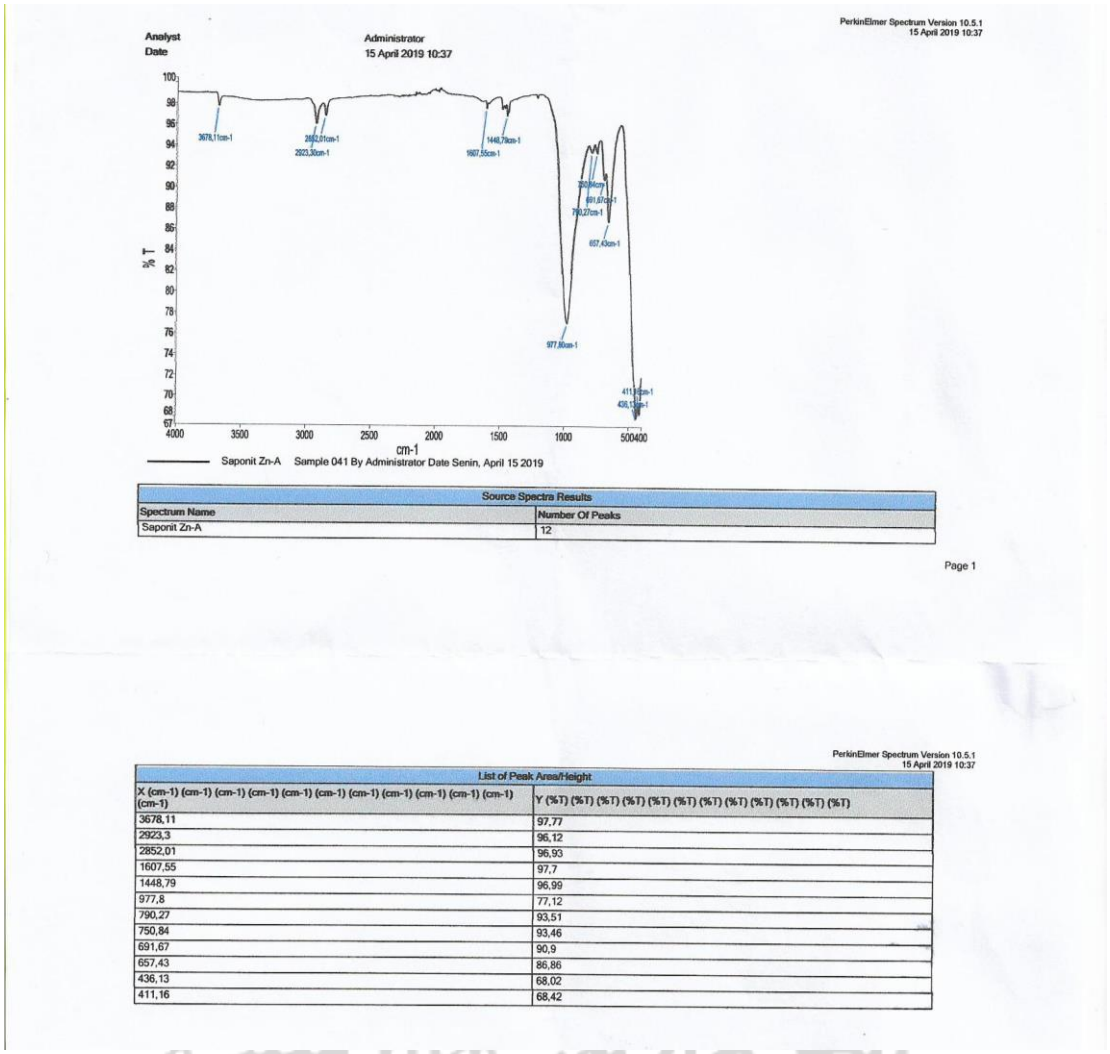
BJH adsorption cumulative micropore volume	0.832889 cc/g
BJH desorption cumulative micropore volume	0.871884 cc/g
Total Pore Volume	0.517015 cc/g

Pore Size Results

BJH adsorption pore radius	1.63692 nm
BJH desorption pore radius	1.84891 nm
Average Pore Size	3.08216 nm

Lampiran 5. Hasil Uji Keasaman dengan FTIR

a. Hasil uji keasaman ZnO-PILS



Source Spectra Results	
Spectrum Name	Number Of Peaks
Saponit Zn-A	12

Page 1

PerkinElmer Spectrum Version 10.5.1
15 April 2019 10:37

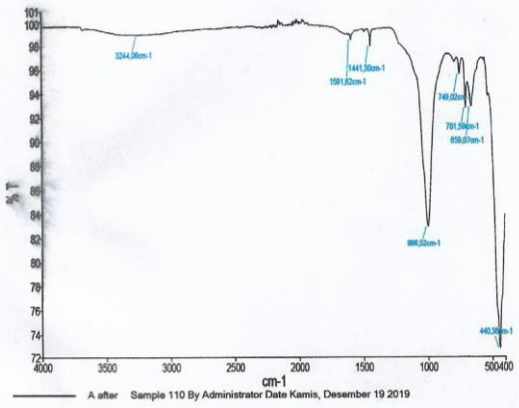
List of Peak Area/Height	
X (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1) (cm-1)	Y (%T) (%T) (%T) (%T) (%T) (%T) (%T) (%T) (%T) (%T) (%T) (%T)
3678,11	97,77
2923,3	96,12
2852,01	96,93
1607,55	97,7
1448,79	96,99
977,8	77,12
790,27	93,51
750,84	93,46
691,67	90,9
657,43	86,86
436,13	68,02
411,16	68,42

b. Hasil uji keasaman ZnO-PCH

PerkinElmer Spectrum Version 10.5.1
19 Desember 2019 10:49

Analyst
Date

Administrator
19 Desember 2019 10:49



A after Sample 110 By Administrator Date Kamis, Desember 19 2019

List of Peak Area/Height		
Peak Number	X (cm-1) (cm-1) (cm-1) (cm-1)	Y (%T) (%T) (A) (%T)
1	3244,06	98,92

Page 1

PerkinElmer Spectrum Version 10.5.1
19 Desember 2019 10:49

List of Peak Area/Height		
Peak Number	X (cm-1) (cm-1) (cm-1) (cm-1)	Y (%T) (%T) (A) (%T)
2	1591,62	98,46
3	1441,3	97,94
4	996,52	82,94
5	749,02	95,58
6	701,59	92,77
7	659,07	92,91
8	440,38	72,82

Lampiran 8. Perhitungan Total Konversi dan Selektivitas Isopulegol

a. Konversi menggunakan ZnO-PILS

$$Total\ konversi = 100\% - \left(\frac{luas\ area\ sitronelal\ hasil}{luas\ area\ sitronelal\ standar} \times 100\%\right)$$

$$= 100\% - \left(\frac{8831426}{23155656} \times 100\%\right) = 61{,}86\ \%$$

$$Selektivitas\ isopulegol = \frac{luas\ area\ isopulegol}{luas\ area\ hasil} \times 100$$

$$= \frac{130315}{1099101} \times 100\% = 11{,}85\%$$

b. Konversi menggunakan ZnO-PCH

$$Total\ konversi = 100\% - \left(\frac{luas\ area\ sitronelal\ hasil}{luas\ area\ sitronelal\ standar} \times 100\%\right)$$

$$= 100\% - \left(\frac{0}{23155656} \times 100\%\right) = 100\ \%$$

$$Selektivitas\ isopulegol = \frac{luas\ area\ isopulegol}{luas\ area\ hasil} \times 100\%$$

$$= \frac{74951058}{75783481} \times 100\% = 98{,}9\ \%$$

Lampiran 6. Proses Konversi Sitronelal Menjadi Isopulegol

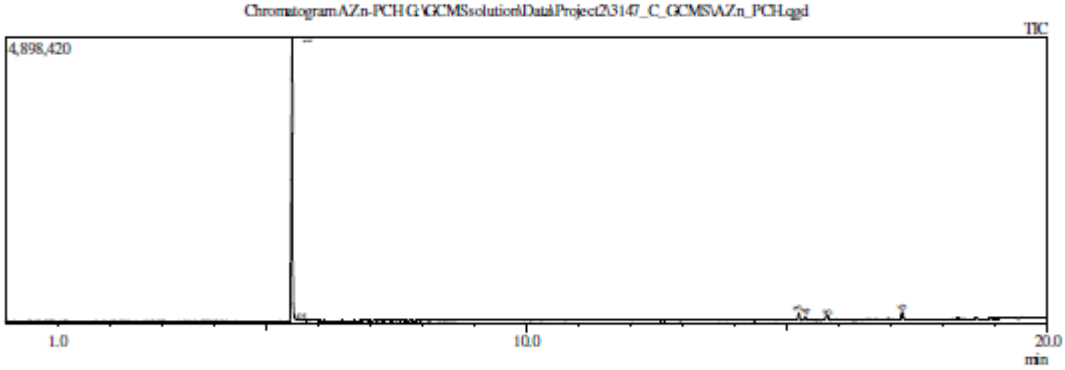
Lampiran 7. Hasil Analisis GCMS

a. Kromatogram hasil konversi dengan katalis ZnO-PILS

Sample Information

Analyzed by	: Admin
Analyzed	: 10/31/2019 1:22:52 PM
Sample Name	: A Zn-PCH
Sample ID	: 1
Injection Volume	: 0.10
Data File	: G:\GCMSsolution\Data\Project2\3147_C_GCMS\A Zn_PCH.qgd
Tuning File	: C:\GCMSsolution\System\Tune1\1 Agus 2019.qgt

Chromatogram A Zn-PCH G:\GCMSsolution\Data\Project2\3147_C_GCMS\A Zn_PCH.qgd

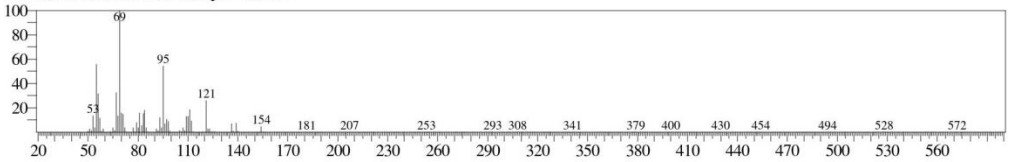


Peak Report TIC

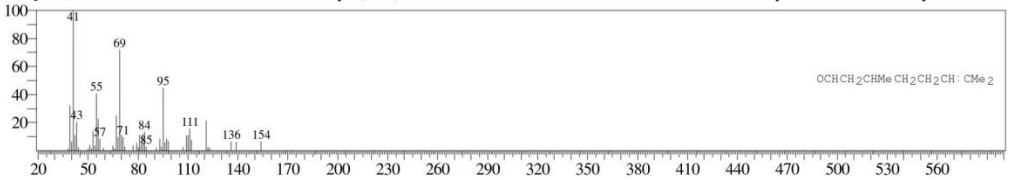
Peak#	R.Time	I.Time	E.Time	Area	Area%	Height
1	5.507	5.450	5.600	8831426	88.93	4864917
2	5.683	5.600	5.717	130315	1.31	26056
3	15.232	15.192	15.275	266257	2.68	131475
4	15.356	15.325	15.400	105624	1.06	56057
5	15.781	15.725	15.842	285418	2.87	87910
6	17.218	17.175	17.275	311487	3.14	128567
				9930527	100.00	5294982

Library

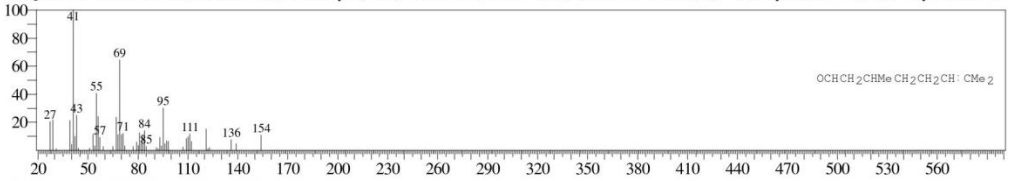
<< Target >>
Line#:1 R.Time:5.508(Scan#:662) MassPeaks:340
RawMode:Averaged 5.500-5.517(661-663) BasePeak:69.05(671242)
BG Mode:Calc. from Peak Group 1 - Event 1



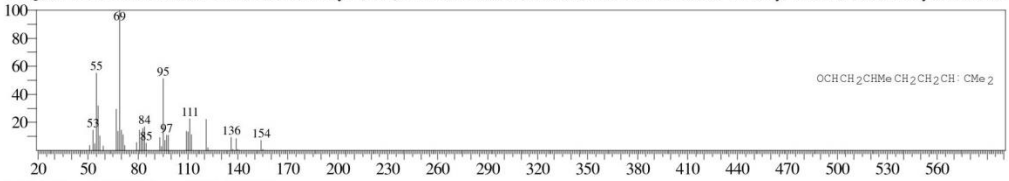
Hit#:1 Entry:43606 Library:WILEY7.LIB
SI:97 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



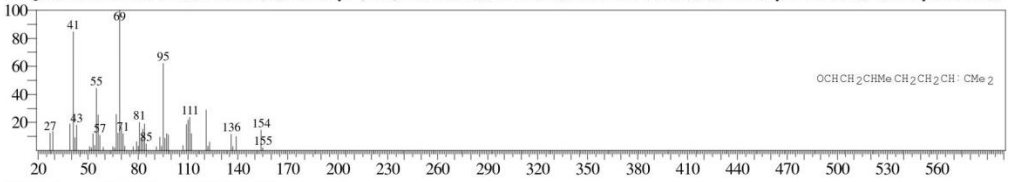
Hit#:2 Entry:43605 Library:WILEY7.LIB
SI:96 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



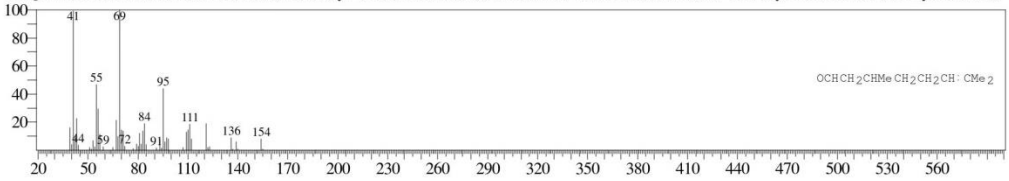
Hit#:3 Entry:43615 Library:WILEY7.LIB
SI:96 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



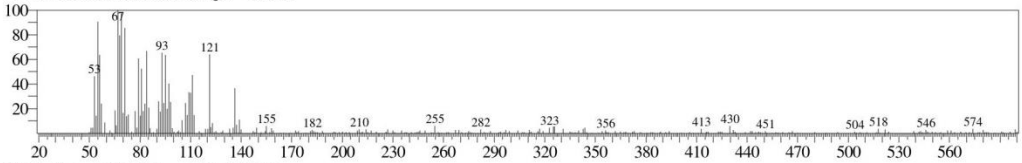
Hit#:4 Entry:43607 Library:WILEY7.LIB
SI:95 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



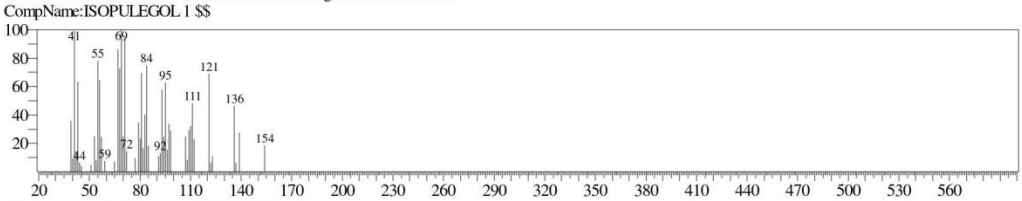
Hit#:5 Entry:43609 Library:WILEY7.LIB
SI:95 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



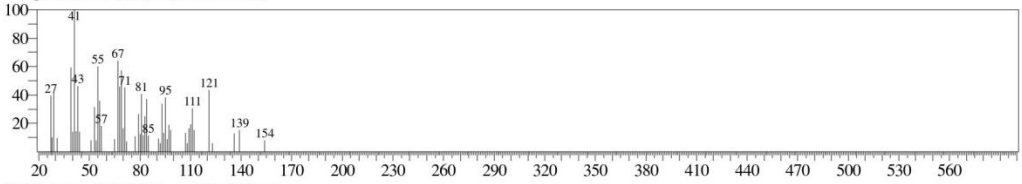
<< Target >>
Line#:2 R.Time:5.683(Scan#:683) MassPeaks:290
RawMode:Averaged 5.675-5.692(682-684) BasePeak:67.05(1139)
BG Mode:Calc. from Peak Group 1 - Event 1



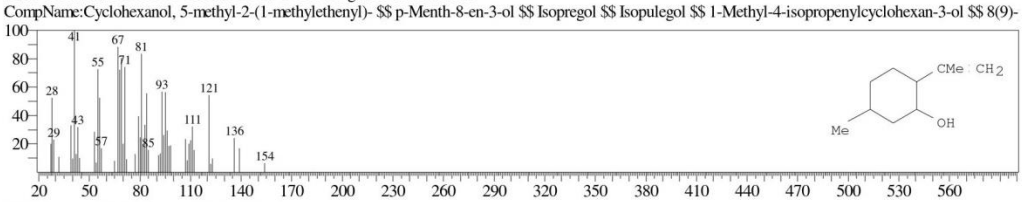
Hit#:1 Entry:44088 Library:WILEY7.LIB
SI:93 Formula:C10 H18 O CAS:0-00-0 MolWeight:154 RetIndex:0
CompName:ISOPULEGOL 1 $$



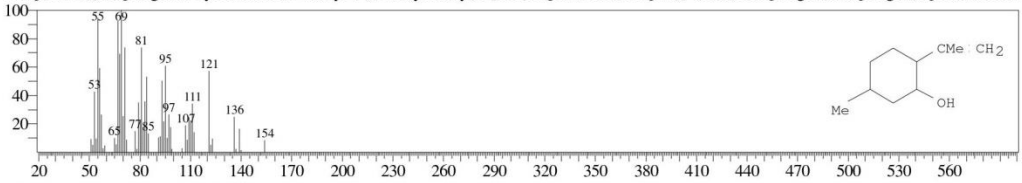
Hit#:2 Entry:42947 Library:WILEY7.LIB
SI:93 Formula:C10 H18 O CAS:21290-09-5 MolWeight:154 RetIndex:0
CompName:NEOISO(ISO)PULEGOL $$



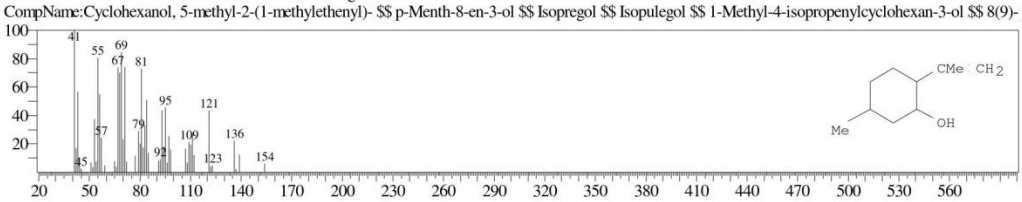
Hit#:3 Entry:43877 Library:WILEY7.LIB
SI:92 Formula:C10 H18 O CAS:7786-67-6 MolWeight:154 RetIndex:0
CompName:Cyclohexanol, 5-methyl-2-(1-methylethenyl)- $$ p-Menth-8-en-3-ol $$ Isopregol $$ Isopulegol $$ 1-Methyl-4-isopropenylcyclohexan-3-ol $$ 8(9)-



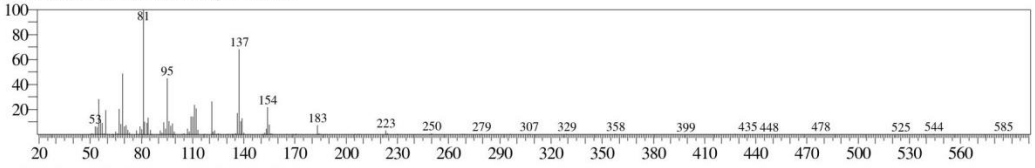
Hit#:4 Entry:43858 Library:WILEY7.LIB
SI:92 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



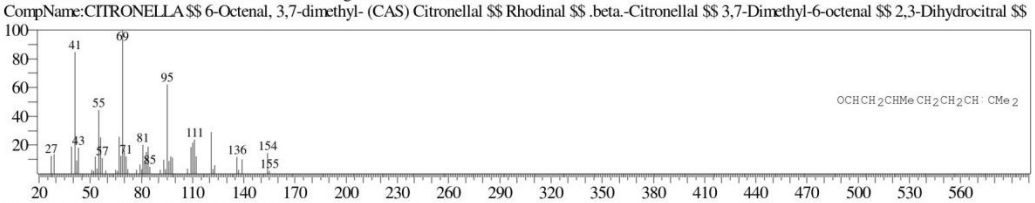
Hit#:5 Entry:43878 Library:WILEY7.LIB
SI:92 Formula:C10 H18 O CAS:7786-67-6 MolWeight:154 RetIndex:0
CompName:Cyclohexanol, 5-methyl-2-(1-methylethenyl)- $$ p-Menth-8-en-3-ol $$ Isopregol $$ Isopulegol $$ 1-Methyl-4-isopropenylcyclohexan-3-ol $$ 8(9)-



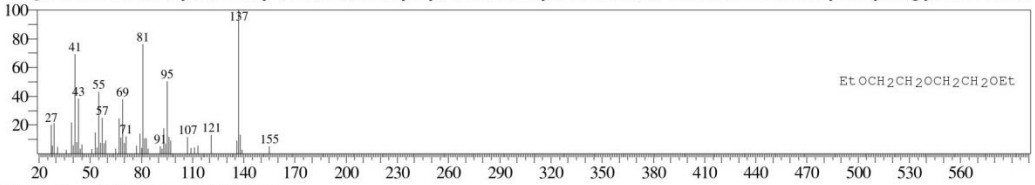
<< Target >>
Line#:3 R.Time:15.233(Scan#:1829) MassPeaks:326
RawMode:Averaged 15.225-15.242(1828-1830) BasePeak:81.05(16244)
BG Mode:Calc. from Peak Group 1 - Event 1



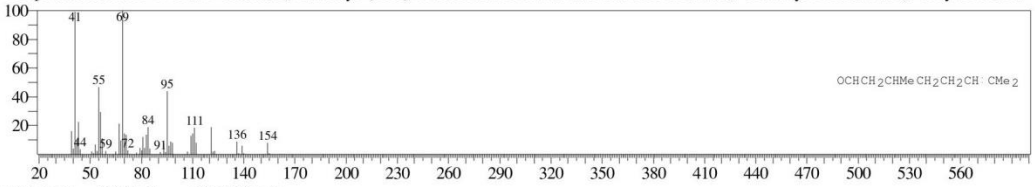
Hit#:1 Entry:43607 Library:WILEY7.LIB
SI:83 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



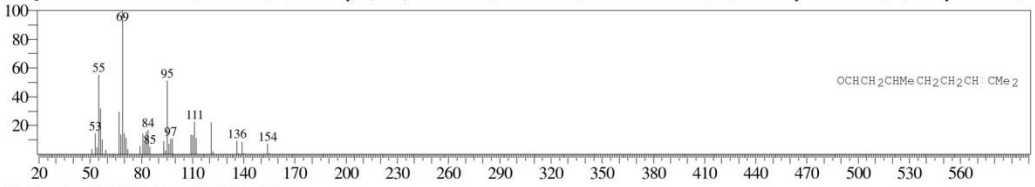
Hit#:2 Entry:138305 Library:WILEY7.LIB
SI:82 Formula:C10 H19 BR O CAS:112-36-7 MolWeight:234 RetIndex:0
CompName:Ethane, 1,1'-oxybis[2-ethoxy- (CAS) Bis(2-ethoxyethyl) ether $$ Diethyl carbitol $$ 3,6,9-Trioxaundecane $$ Diethyldiethylene glycol $$ Ether, bi



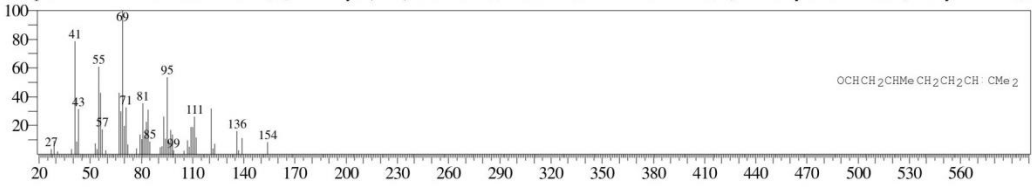
Hit#:3 Entry:43609 Library:WILEY7.LIB
SI:81 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



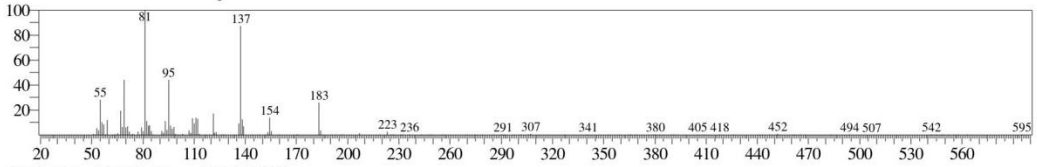
Hit#:4 Entry:43615 Library:WILEY7.LIB
SI:80 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



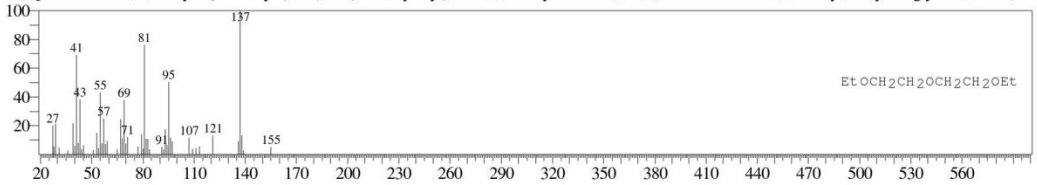
Hit#:5 Entry:43617 Library:WILEY7.LIB
SI:80 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



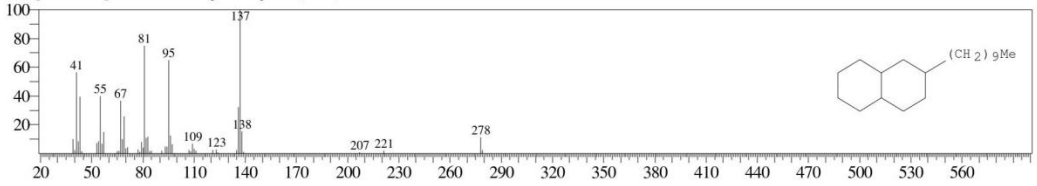
<< Target >>
Line#:4 R.Time:15.358(Scan#:1844) MassPeaks:285
RawMode:Averaged 15.350-15.367(1843-1845) BasePeak:81.05(7955)
BG Mode:Calc. from Peak Group 1 - Event 1



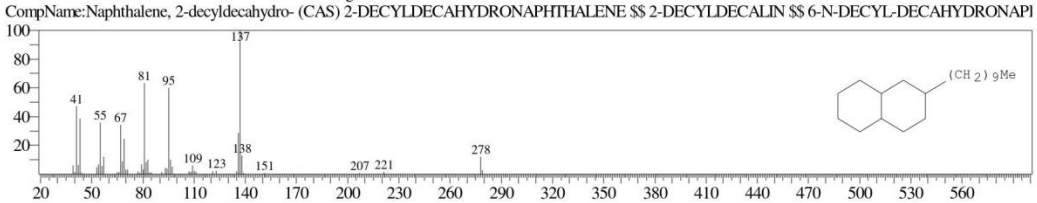
Hit#:1 Entry:138305 Library:WILEY7.LIB
SI:84 Formula:C10 H19 BR O CAS:112-36-7 MolWeight:234 RetIndex:0
CompName:Ethane, 1,1'-oxybis[2-ethoxy- (CAS) Bis(2-ethoxyethyl) ether $$ Diethyl carbitol $$ 3,6,9-Trioxaundecane $$ Diethyldiethylene glycol $$ Ether, bi



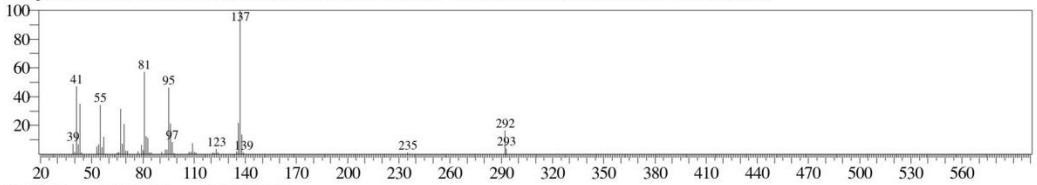
Hit#:2 Entry:189034 Library:WILEY7.LIB
SI:81 Formula:C20 H38 CAS:54964-84-0 MolWeight:278 RetIndex:0
CompName:Naphthalene, 2-decyldecahydro- (CAS) 2-DECYLDECAHYDRONAPHTHALENE $$ 2-DECYLDECALIN $$ 6-N-DECYL-DECAHYDRONAPI



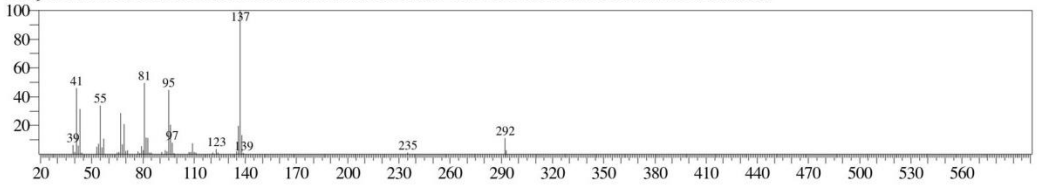
Hit#:3 Entry:189035 Library:WILEY7.LIB
SI:80 Formula:C20 H38 CAS:54964-84-0 MolWeight:278 RetIndex:0
CompName:Naphthalene, 2-decyldecahydro- (CAS) 2-DECYLDECAHYDRONAPHTHALENE $$ 2-DECYLDECALIN $$ 6-N-DECYL-DECAHYDRONAPI



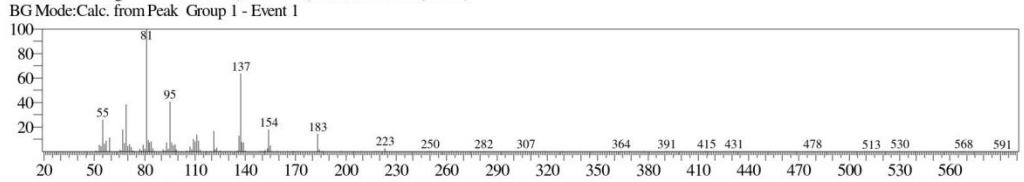
Hit#:4 Entry:203825 Library:WILEY7.LIB
SI:80 Formula:C21 H40 CAS:0-00-0 MolWeight:292 RetIndex:0
CompName:1-N-UNDECYL-DECAHYDRONAPHTHALENE $$ 1-UNDECYL-DECAHYDRO-NAPHTHALENE $$



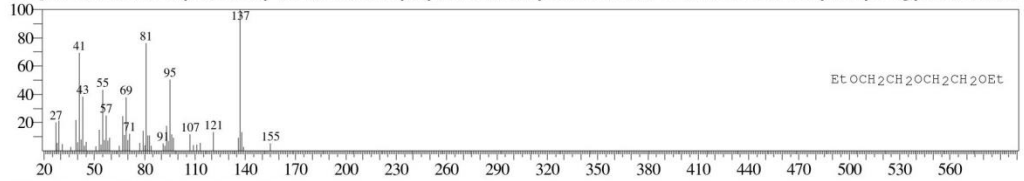
Hit#:5 Entry:203826 Library:WILEY7.LIB
SI:80 Formula:C21 H40 CAS:0-00-0 MolWeight:292 RetIndex:0
CompName:1-N-UNDECYL-DECAHYDRONAPHTHALENE $$ 1-UNDECYL-DECAHYDRO-NAPHTHALENE $$



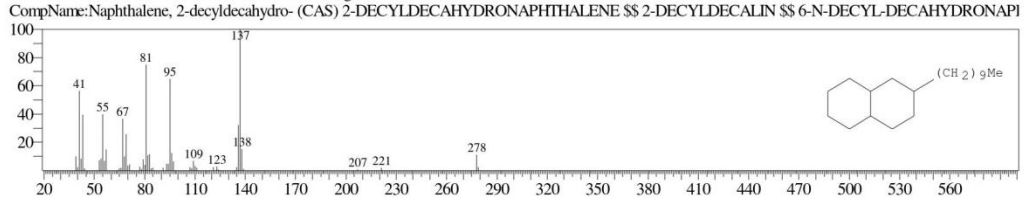
<< Target >>
Line#:5 R.Time:15.783(Scan#:1895) MassPeaks:349
RawMode:Averaged 15.775-15.792(1894-1896) BasePeak:81.05(14015)
BG Mode:Calc. from Peak Group 1 - Event 1



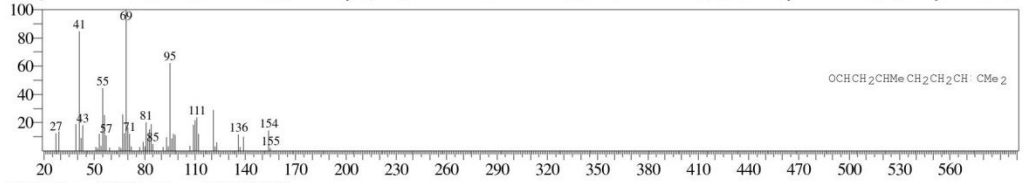
Hit#:1 Entry:138305 Library:WILEY7.LIB
SI:83 Formula:C10 H19 BR O CAS:112-36-7 MolWeight:234 RetIndex:0
CompName:Ethane, 1,1'-oxybis[2-ethoxy- (CAS) Bis(2-ethoxyethyl) ether $$ Diethyl carbitol $$ 3,6,9-Trioxaundecane $$ Diethyldiethylene glycol $$ Ether, bi



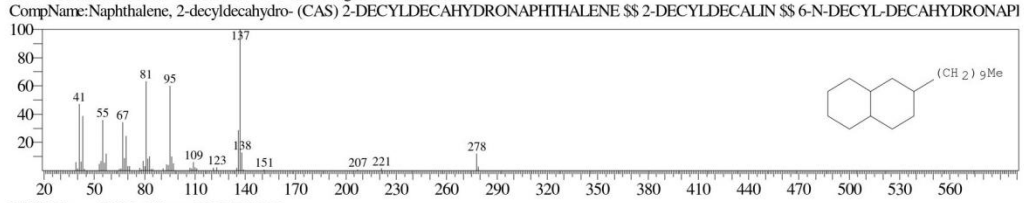
Hit#:2 Entry:189034 Library:WILEY7.LIB
SI:80 Formula:C20 H38 CAS:54964-84-0 MolWeight:278 RetIndex:0
CompName:Naphthalene, 2-decyldecahydro- (CAS) 2-DECYLDECAHYDRONAPHTHALENE $$ 2-DECYLDECALIN $$ 6-N-DECYL-DECAHYDRONAPI



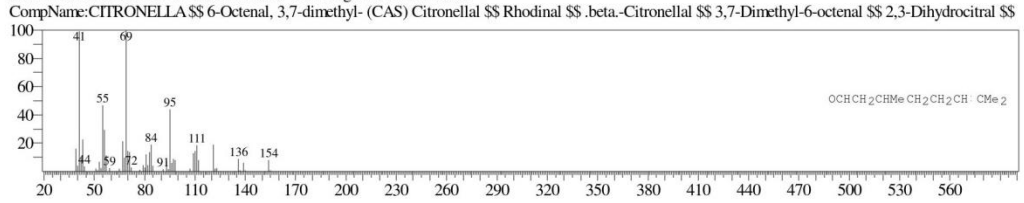
Hit#:3 Entry:43607 Library:WILEY7.LIB
SI:79 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



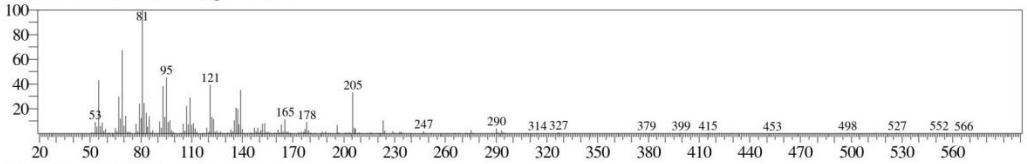
Hit#:4 Entry:189035 Library:WILEY7.LIB
SI:79 Formula:C20 H38 CAS:54964-84-0 MolWeight:278 RetIndex:0
CompName:Naphthalene, 2-decyldecahydro- (CAS) 2-DECYLDECAHYDRONAPHTHALENE $$ 2-DECYLDECALIN $$ 6-N-DECYL-DECAHYDRONAPI



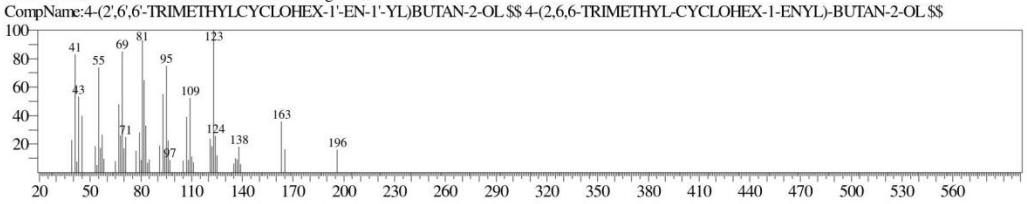
Hit#:5 Entry:43609 Library:WILEY7.LIB
SI:79 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



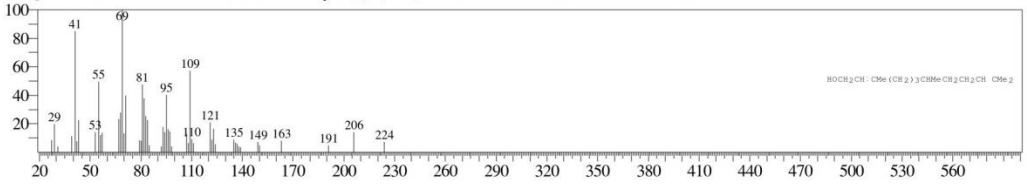
<< Target >>
Line#:6 R.Time:17.217(Scan#:2067) MassPeaks:328
RawMode:Averaged 17.208-17.225(2066-2068) BasePeak:81.00(11509)
BG Mode:Calc. from Peak Group 1 - Event 1



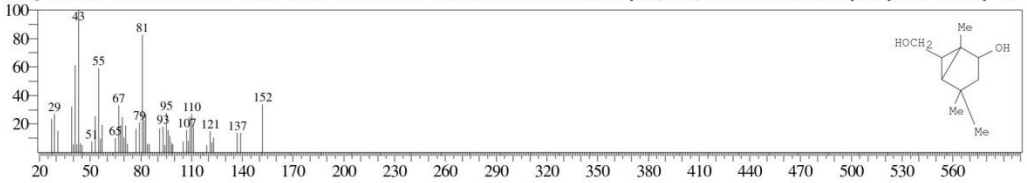
Hit#:1 Entry:91174 Library:WILEY7.LIB
SI:80 Formula:C13 H24 O CAS:0-00-0 MolWeight:196 RetIndex:0
CompName:4-(2',6',6'-TRIMETHYLCYCLOHEX-1'-EN-1'-YL)BUTAN-2-OL $$ 4-(2,6,6-TRIMETHYL-CYCLOHEX-1-ENYL)-BUTAN-2-OL $$



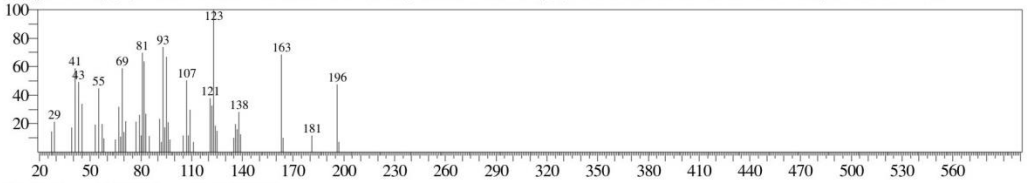
Hit#:2 Entry:126228 Library:WILEY7.LIB
SI:79 Formula:C15 H28 O CAS:20576-57-2 MolWeight:224 RetIndex:0
CompName:2,10-Dodecadien-1-ol, 3,7,11-trimethyl-, (Z)- (CAS) DL-6,7-DIHYDRO-2,CIS-FARNESOL $$



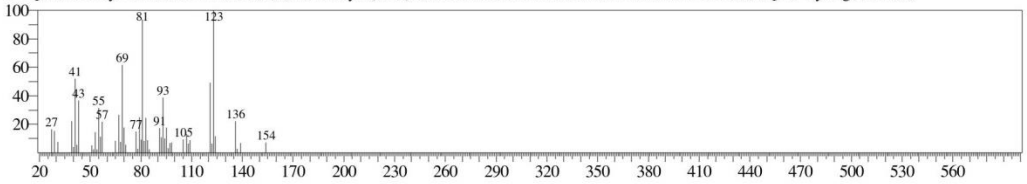
Hit#:3 Entry:61167 Library:WILEY7.LIB
SI:78 Formula:C10 H18 O2 CAS:58795-41-8 MolWeight:170 RetIndex:0
CompName:6-HYDROXYMETHYL-1,4,4-TRIMETHYL-BICYCLO(3.1.0)HEXAN-2-OL $$ Bicyclo[3.1.0]hexane-6-methanol, 2-hydroxy-1,4,4-trimethyl- (C.



Hit#:4 Entry:91175 Library:WILEY7.LIB
SI:78 Formula:C13 H24 O CAS:0-00-0 MolWeight:196 RetIndex:0
CompName:4-(2',6',6'-TRIMETHYLCYCLOHEX-1'-EN-1'-YL)BUTAN-2-OL $$ 4-(2,6,6-TRIMETHYL-CYCLOHEX-1-ENYL)-BUTAN-2-OL $$



Hit#:5 Entry:44098 Library:WILEY7.LIB
SI:78 Formula:C10 H18 O CAS:6627-74-3 MolWeight:154 RetIndex:0
CompName:2-Cyclohexene-1-methanol, 2,6,6-trimethyl- (CAS) 6,7-DIMETHYL-3H-ISOBENZOFURAN-1-ONE $$ .alpha.-Cyclogeraniol $$

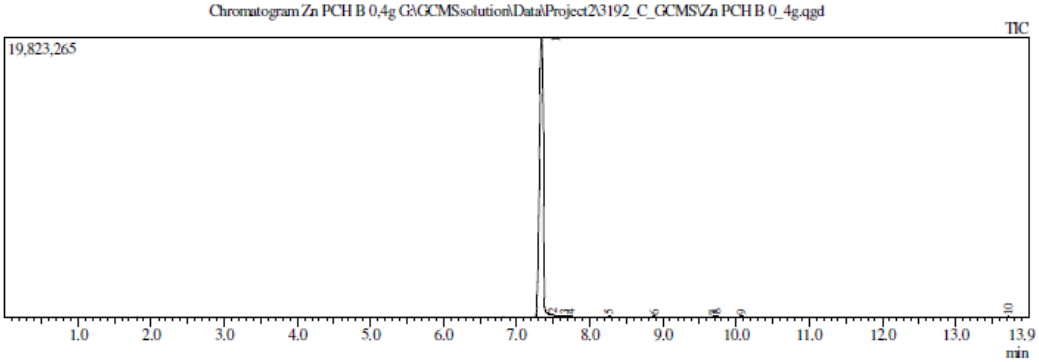


b. Kromatogram hasil konversi dengan katalis ZnO-PCH

Sample Information

Analyzed by	: Admin
Analyzed	: 11/8/2019 11:39:14 AM
Sample Name	: Zn PCH B 0,4g
Sample ID	: 2
Injection Volume	: 0.10
Data File	: G:\GCMSsolution\Data\Project2\3192_C_GCMS\Zn PCH B 0_4g.qgd
Tuning File	: C:\GCMSsolution\System\Tune1\1 Agus 2019.qgt

Chromatogram Zn PCH B 0,4g G:\GCMSsolution\Data\Project2\3192_C_GCMS\Zn PCH B 0_4g.qgd



Peak Report TIC

Peak#	R.Time	I.Time	F.Time	Area	Area%	Height
1	7.339	7.245	7.785	74951058	98.90	19781852
2	7.492	7.470	7.530	73156	0.10	49728
3	7.662	7.620	7.700	47730	0.06	24004
4	7.736	7.700	7.775	78991	0.10	40551
5	8.268	8.230	8.315	86589	0.11	41458
6	8.874	8.830	8.935	130825	0.17	50507
7	9.690	9.655	9.720	129631	0.17	49289
8	9.738	9.720	9.800	137331	0.18	60374
9	10.075	10.040	10.125	88749	0.12	37386
10	13.729	13.690	13.770	59421	0.08	26491
				75783481	100.00	20161640

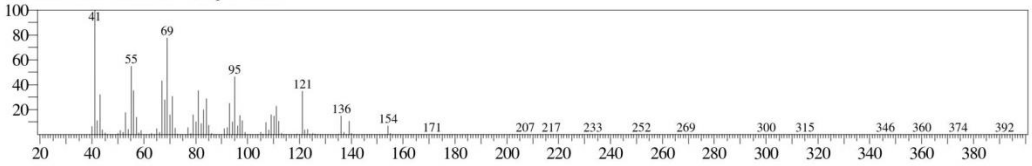
Library

<< Target >>

Line#:1 R.Time:7.340(Scan#:1469) MassPeaks:247

RawMode:Averaged 7.335-7.345(1468-1470) BasePeak:41.00(2126431)

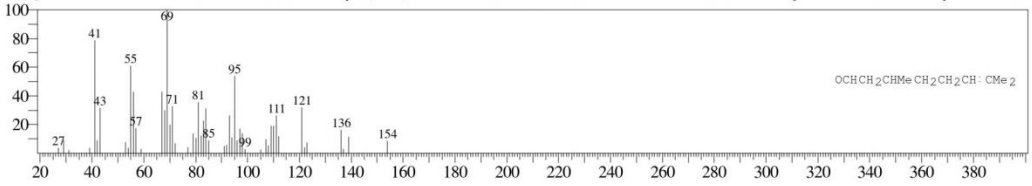
BG Mode:Calc. from Peak Group 1 - Event 1



Hit#:1 Entry:43617 Library:WILEY7.LIB

SI:95 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0

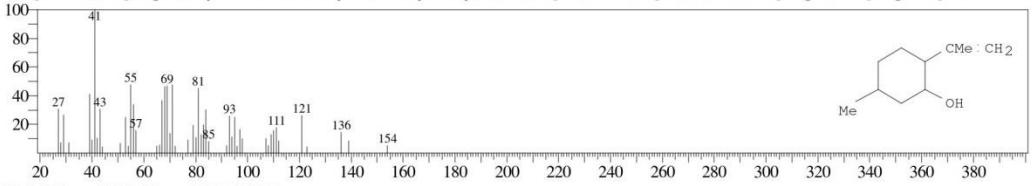
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



Hit#:2 Entry:43852 Library:WILEY7.LIB

SI:94 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0

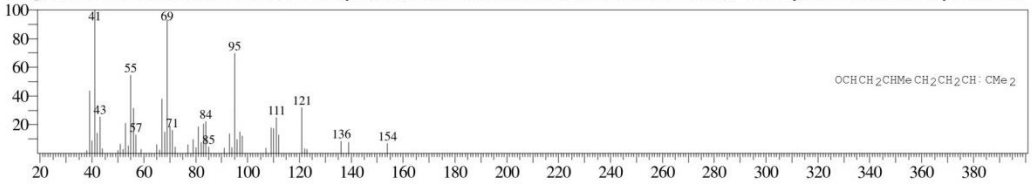
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



Hit#:3 Entry:43604 Library:WILEY7.LIB

SI:94 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0

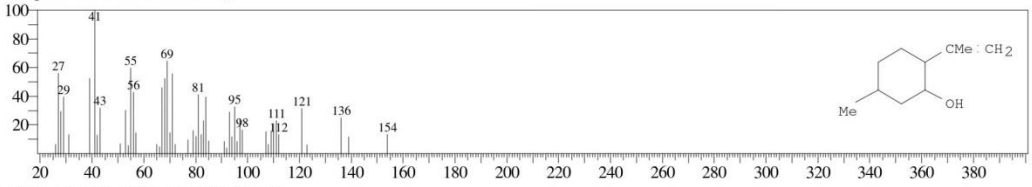
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



Hit#:4 Entry:42836 Library:WILEY7.LIB

SI:94 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0

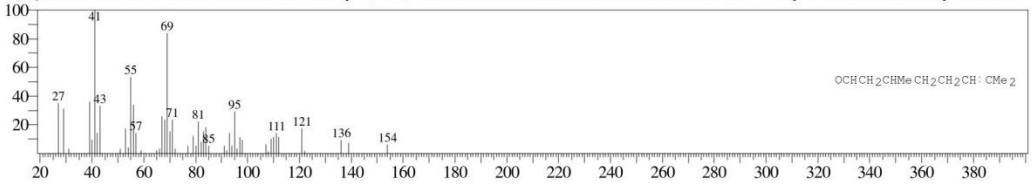
CompName:NEO-ISOPULEGOL $$



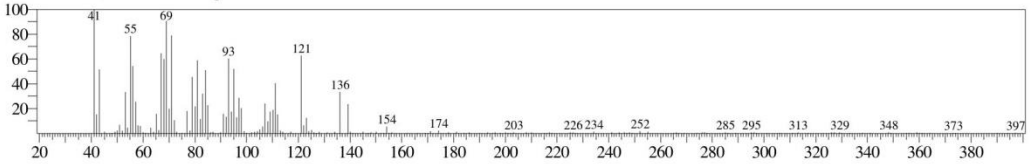
Hit#:5 Entry:43603 Library:WILEY7.LIB

SI:93 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0

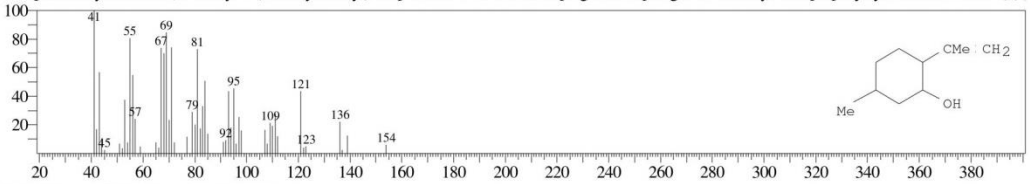
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



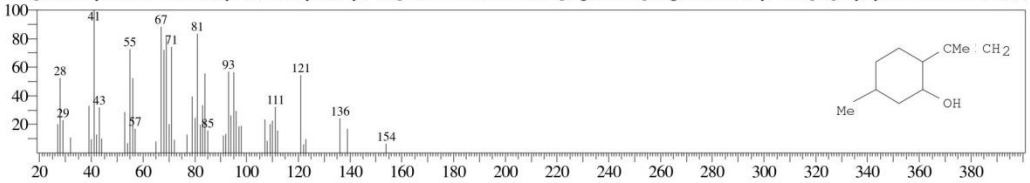
<< Target >>
Line#:2 R.Time:7.490(Scan#:1499) MassPeaks:208
RawMode:Averaged 7.485-7.495(1498-1500) BasePeak:41.05(2986)
BG Mode:Calc. from Peak Group 1 - Event 1



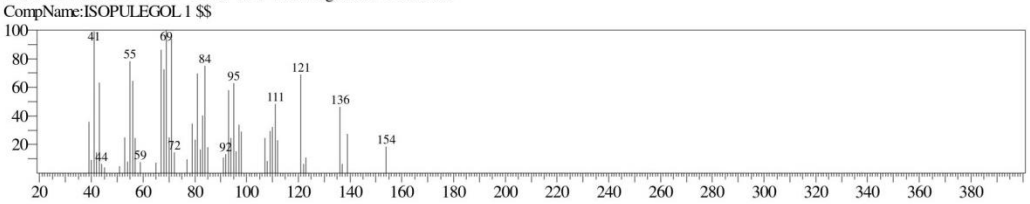
Hit#:1 Entry:43878 Library:WILEY7.LIB
SI:94 Formula:C10 H18 O CAS:7786-67-6 MolWeight:154 RetIndex:0
CompName:Cyclohexanol, 5-methyl-2-(1-methylethenyl)- $$ p-Menth-8-en-3-ol $$ Isopregol $$ Isopulegol $$ 1-Methyl-4-isopropenylcyclohexan-3-ol $$ 8(9)-



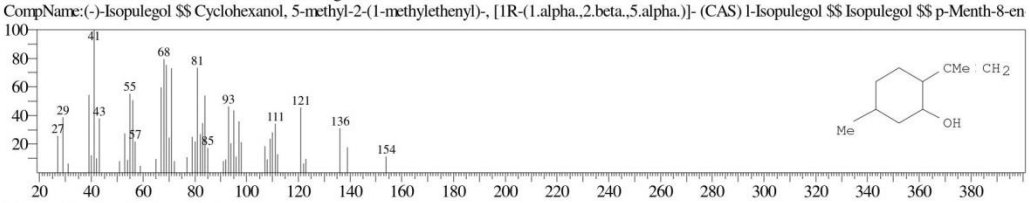
Hit#:2 Entry:43877 Library:WILEY7.LIB
SI:94 Formula:C10 H18 O CAS:7786-67-6 MolWeight:154 RetIndex:0
CompName:Cyclohexanol, 5-methyl-2-(1-methylethenyl)- $$ p-Menth-8-en-3-ol $$ Isopregol $$ Isopulegol $$ 1-Methyl-4-isopropenylcyclohexan-3-ol $$ 8(9)-



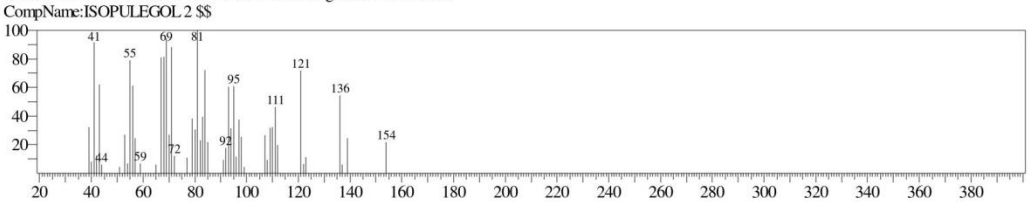
Hit#:3 Entry:44088 Library:WILEY7.LIB
SI:94 Formula:C10 H18 O CAS:0-00-0 MolWeight:154 RetIndex:0
CompName:ISOPULEGOL 1 $$



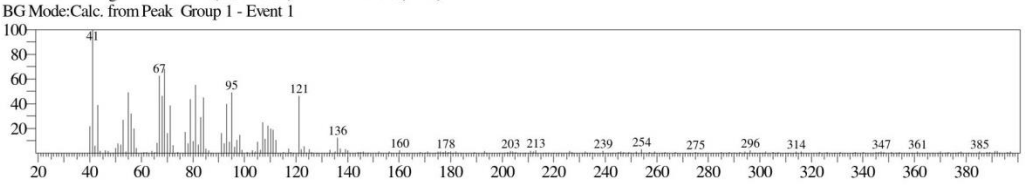
Hit#:4 Entry:43853 Library:WILEY7.LIB
SI:94 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



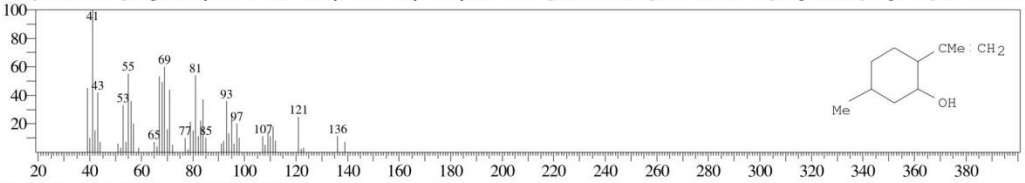
Hit#:5 Entry:44091 Library:WILEY7.LIB
SI:93 Formula:C10 H18 O CAS:0-00-0 MolWeight:154 RetIndex:0
CompName:ISOPULEGOL 2 $$



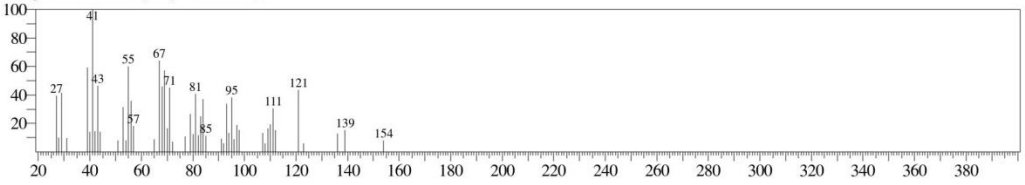
<< Target >>
Line#:3 R.Time:7.660(Scan#:1533) MassPeaks:227
RawMode:Averaged 7.655-7.665(1532-1534) BasePeak:41.05(1874)
BG Mode:Calc. from Peak Group 1 - Event 1



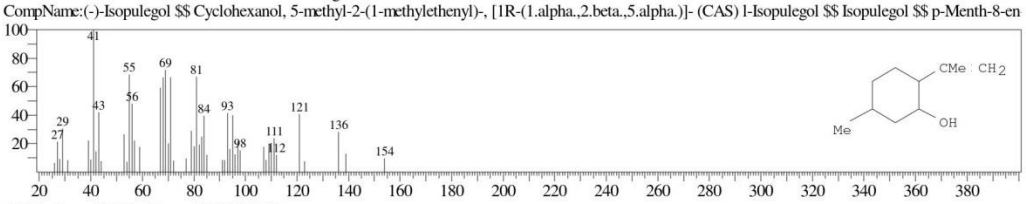
Hit#:1 Entry:43851 Library:WILEY7.LIB
SI:91 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



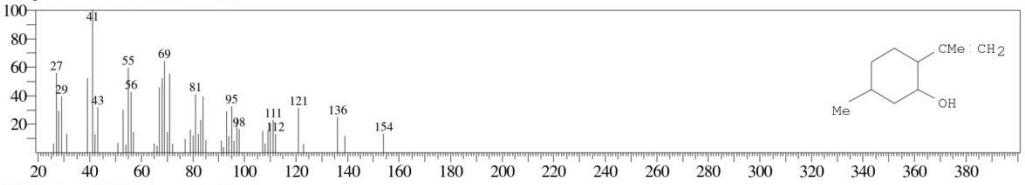
Hit#:2 Entry:42947 Library:WILEY7.LIB
SI:91 Formula:C10 H18 O CAS:21290-09-5 MolWeight:154 RetIndex:0
CompName:NEOISO(ISO)PULEGOL $$



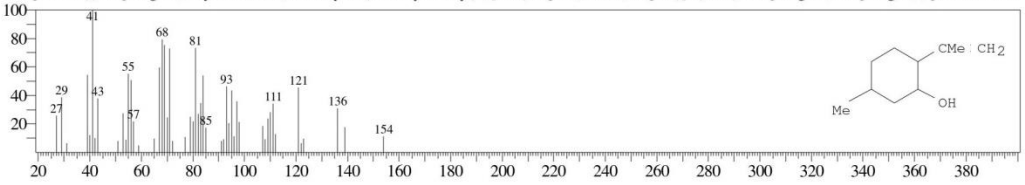
Hit#:3 Entry:43855 Library:WILEY7.LIB
SI:90 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



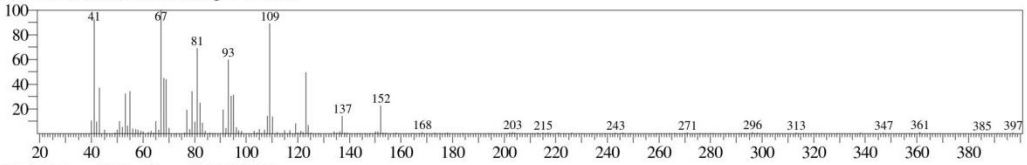
Hit#:4 Entry:42836 Library:WILEY7.LIB
SI:89 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:NEO-ISOPULEGOL $$



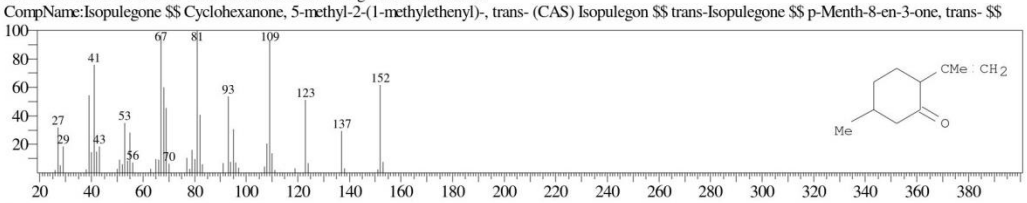
Hit#:5 Entry:43853 Library:WILEY7.LIB
SI:89 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



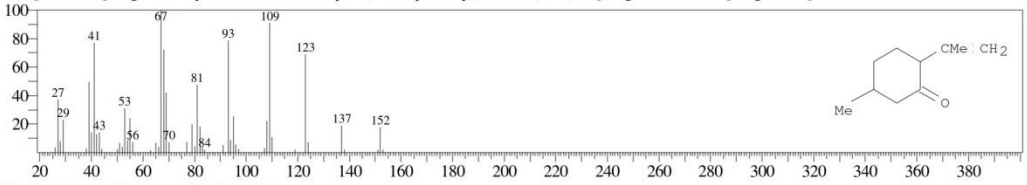
<< Target >>
Line#:4 R.Time:7.735(Scan#:1548) MassPeaks:194
RawMode:Averaged 7.730-7.740(1547-1549) BasePeak:67.05(3585)
BG Mode:Calc. from Peak Group 1 - Event 1



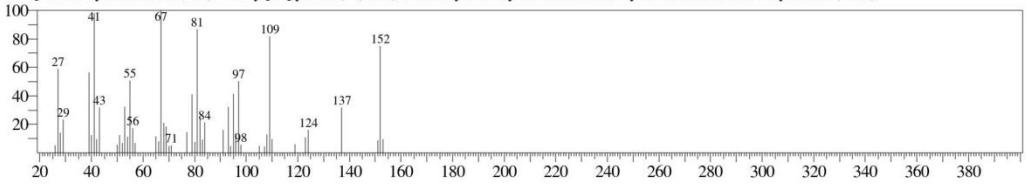
Hit#:1 Entry:41092 Library:WILEY7.LIB
SI:91 Formula:C10 H16 O CAS:29606-79-9 MolWeight:152 RetIndex:0
CompName:Isopulegone $$ Cyclohexanone, 5-methyl-2-(1-methylethenyl)-, trans- (CAS) Isopulegon $$ trans-Isopulegone $$ p-Menth-8-en-3-one, trans- $$



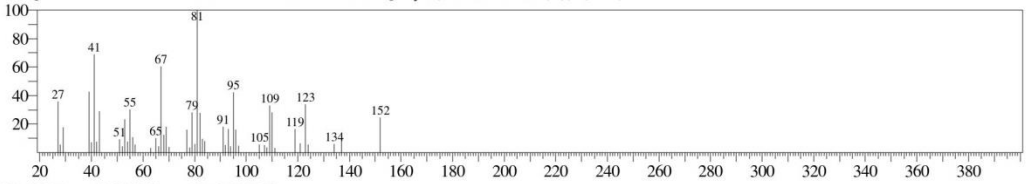
Hit#:2 Entry:41093 Library:WILEY7.LIB
SI:91 Formula:C10 H16 O CAS:29606-79-9 MolWeight:152 RetIndex:0
CompName:Isopulegone $$ Cyclohexanone, 5-methyl-2-(1-methylethenyl)-, trans- (CAS) Isopulegon $$ trans-Isopulegone $$ p-Menth-8-en-3-one, trans- $$



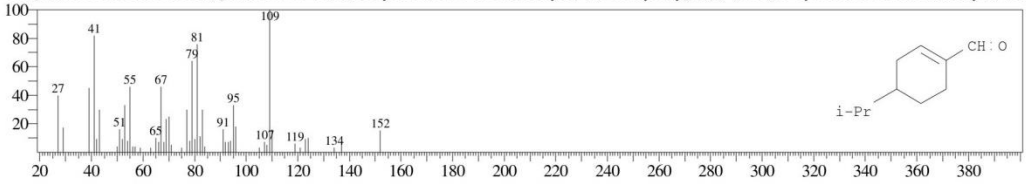
Hit#:3 Entry:40356 Library:WILEY7.LIB
SI:87 Formula:C10 H16 O CAS:43108-69-6 MolWeight:152 RetIndex:0
CompName:Cyclohexanone, 2-(2-methylpropylidene)- (CAS) 2-Isobutylidenecyclohexanone $$ Cyclohexanone, 2-isobutylidene- (CAS)



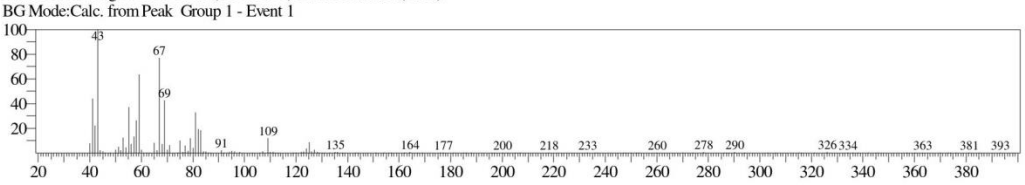
Hit#:4 Entry:40345 Library:WILEY7.LIB
SI:87 Formula:C10 H16 O CAS:6909-20-2 MolWeight:152 RetIndex:0
CompName:TRANS-CARAN, 4,5-EPOXI- $$ Carane, 4,5-epoxy-, (1S,3R,4R,5S,6R)-(-)- (CAS)



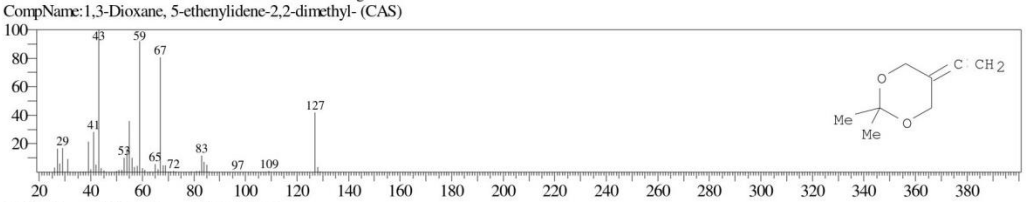
Hit#:5 Entry:41027 Library:WILEY7.LIB
SI:86 Formula:C10 H16 O CAS:23963-70-4 MolWeight:152 RetIndex:0
CompName:PHELLANDRAL $$ p-menth-1-en-7-al $$ 1-Cyclohexene-1-carboxaldehyde, 4-(1-methylethyl)-, (S)- (CAS) 1-Cyclohexene-1-carboxaldehyde, 4-i



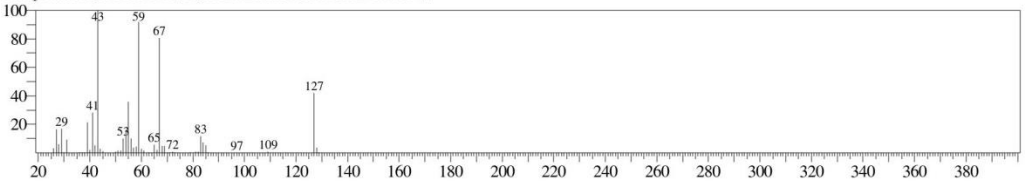
<< Target >>
Line#:5 R.Time:8.270(Scan#:1655) MassPeaks:232
RawMode:Averaged 8.265-8.275(1654-1656) BasePeak:43.00(5755)
BG Mode:Calc. from Peak Group 1 - Event 1



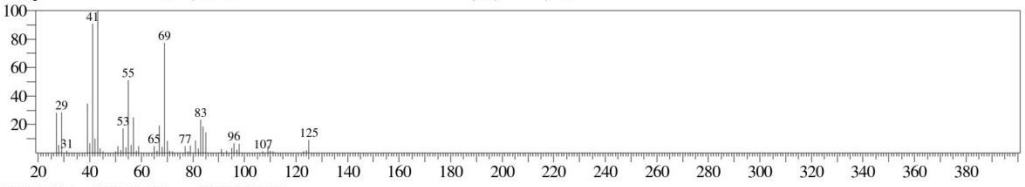
Hit#:1 Entry:28870 Library:WILEY7.LIB
SI:82 Formula:C8 H12 O2 CAS:74685-78-2 MolWeight:140 RetIndex:0
CompName:1,3-Dioxane, 5-ethenylidene-2,2-dimethyl- (CAS)



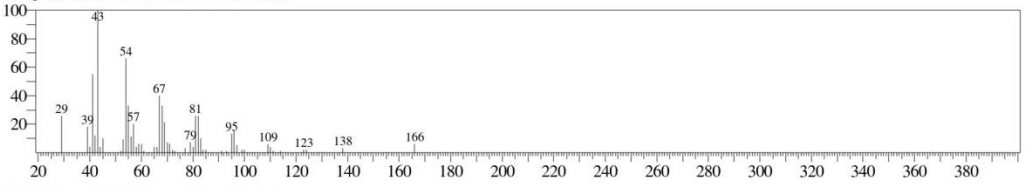
Hit#:2 Entry:30856 Library:WILEY7.LIB
SI:82 Formula:C8 H14 O2 CAS:0-00-0 MolWeight:142 RetIndex:0
CompName:1,3-DIOXANE, 2,2-DIMETHYL-5-ETHYLIDENE- $$



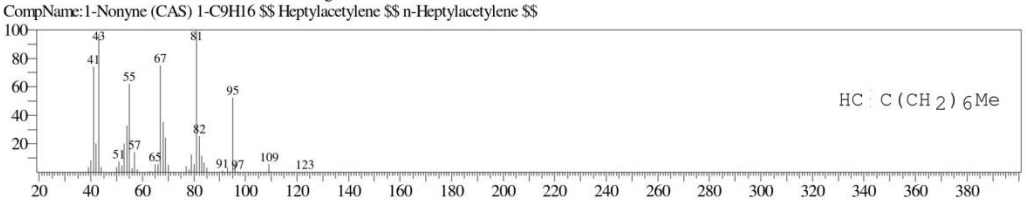
Hit#:3 Entry:58872 Library:WILEY7.LIB
SI:81 Formula:C11 H20 O CAS:59642-07-8 MolWeight:168 RetIndex:0
CompName:ETHANONE, 1-(1,2,2,3-TETRAMETHYLCYCLOPENTYL)-, (1R-CIS)- $$



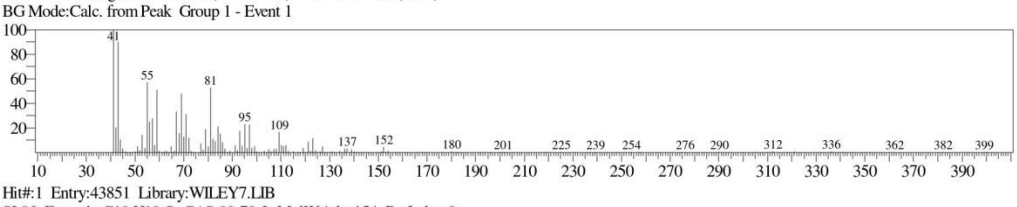
Hit#:4 Entry:128510 Library:WILEY7.LIB
SI:80 Formula:C14 H26 O2 CAS:38363-23-4 MolWeight:226 RetIndex:0
CompName:E2-DODECENYLACETATE $$



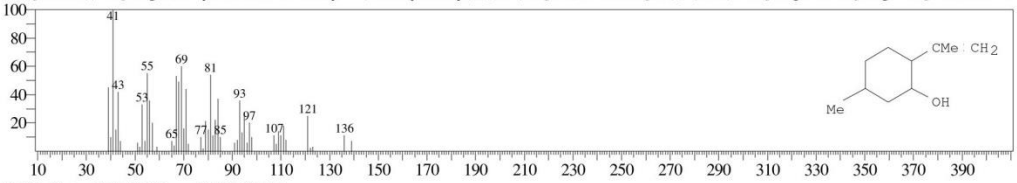
Hit#:5 Entry:17687 Library:WILEY7.LIB
SI:80 Formula:C9 H16 CAS:3452-09-3 MolWeight:124 RetIndex:0
CompName:1-Nonyne (CAS) 1-C9H16 $$ Heptylacetylene $$ n-Heptylacetylene $$



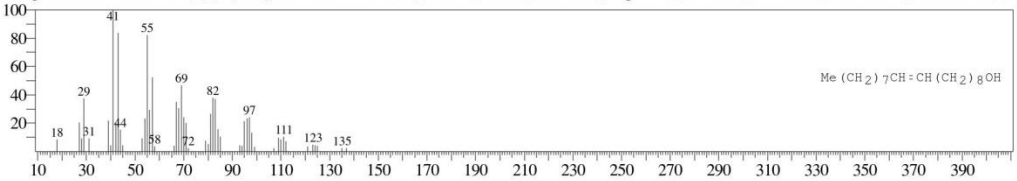
<< Target >>
Line#:6 R.Time:8.875(Scan#:1776) MassPeaks:206
RawMode:Averaged 8.870-8.880(1775-1777) BasePeak:41.05(5141)
BG Mode:Calc. from Peak Group 1 - Event 1



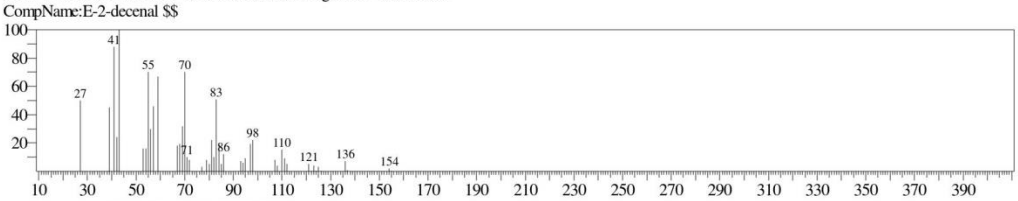
Hit#:1 Entry:43851 Library:WILEY7.LIB
SI:86 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



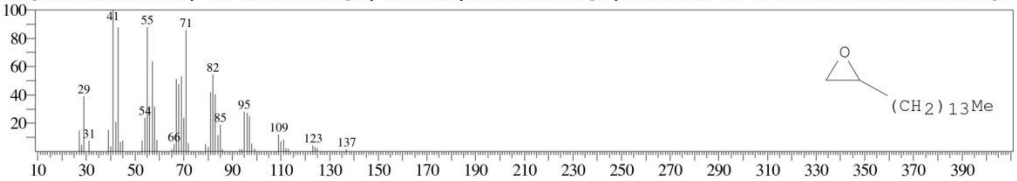
Hit#:2 Entry:178160 Library:WILEY7.LIB
SI:84 Formula:C18 H36 O CAS:143-28-2 MolWeight:268 RetIndex:0
CompName:9-Octadecen-1-ol, (Z)- (CAS) cis-9-Octadecen-1-ol $$ Oleol $$ Satol $$ Ocenol $$ Sipol O $$ Adol 85 $$ Atalco O $$ Adol 320 $$ Loxanol M $$



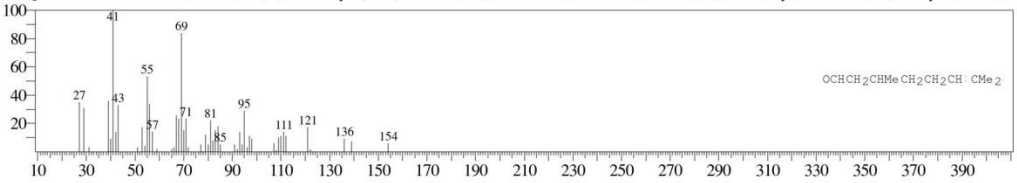
Hit#:3 Entry:44031 Library:WILEY7.LIB
SI:84 Formula:C10 H18 O CAS:0-00-0 MolWeight:154 RetIndex:0
CompName:E-2-decenal $$



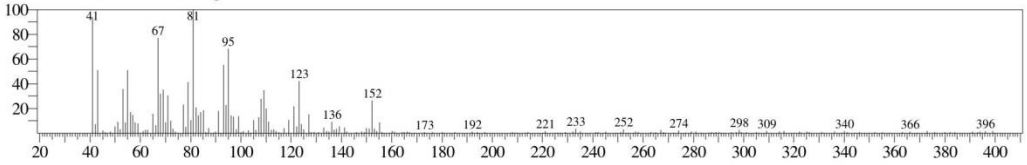
Hit#:4 Entry:146219 Library:WILEY7.LIB
SI:84 Formula:C16 H32 O CAS:7320-37-8 MolWeight:240 RetIndex:0
CompName:Oxirane, tetradecyl- $$ Hexadecane, 1,2-epoxy- $$ Hexadecylene oxide $$ 1,2-Epoxyhexadecane $$ 1,2-Hexadecane oxide $$ 1,2-Hexadecene epo



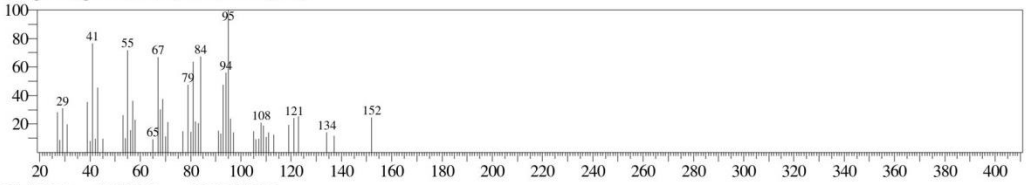
Hit#:5 Entry:43603 Library:WILEY7.LIB
SI:84 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



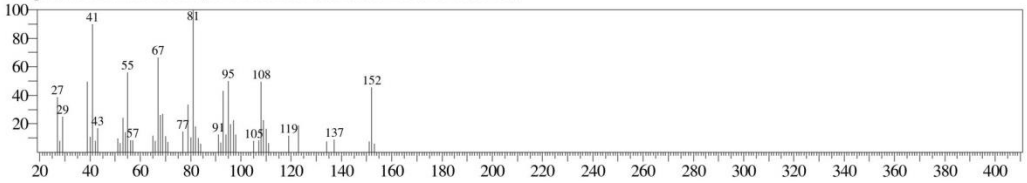
<< Target >>
Line#:7 R.Time:9.690(Scan#:1939) MassPeaks:222
RawMode:Averaged 9.685-9.695(1938-1940) BasePeak:81.05(1845)
BG Mode:Calc. from Peak Group 1 - Event 1



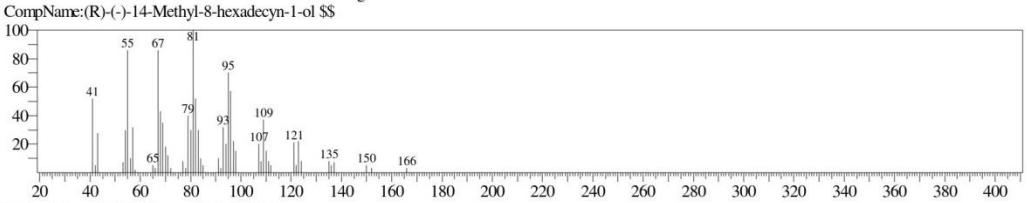
Hit#:1 Entry:60482 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O2 CAS:91139-97-8 MolWeight:170 RetIndex:0
CompName:p-Menth-8(10)-ene-2,9-diol (CAS)



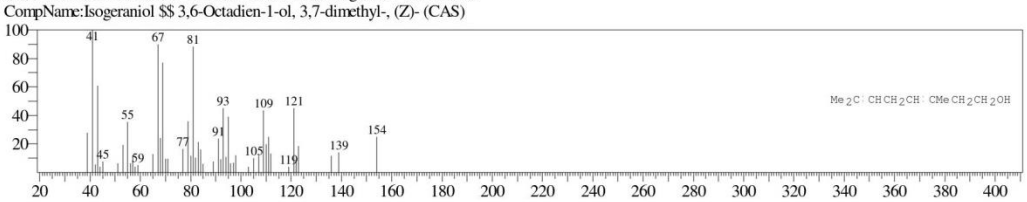
Hit#:2 Entry:40107 Library:WILEY7.LIB
SI:84 Formula:C10 H16 O CAS:77954-13-3 MolWeight:152 RetIndex:0
CompName:BENZOFURANE, HEXAHYDRO-3-METHYLEN-6-METHYL- $$



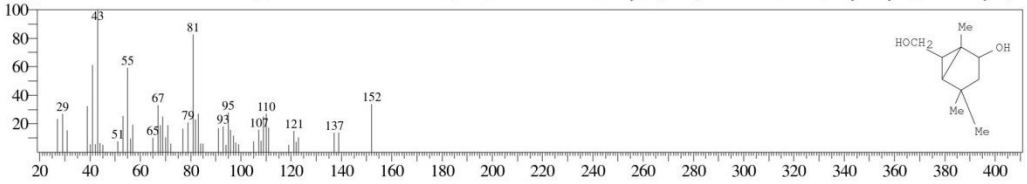
Hit#:3 Entry:160130 Library:WILEY7.LIB
SI:84 Formula:C17 H32 O CAS:64566-18-3 MolWeight:252 RetIndex:0
CompName:(R)-(-)-14-Methyl-8-hexadecyn-1-ol $$



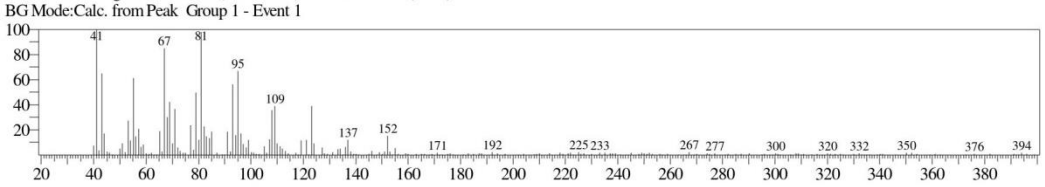
Hit#:4 Entry:43684 Library:WILEY7.LIB
SI:83 Formula:C10 H18 O CAS:5944-20-7 MolWeight:154 RetIndex:0
CompName:Isogeraniol $$ 3,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (CAS)



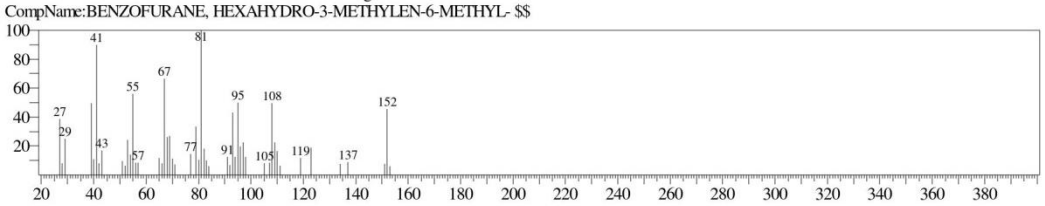
Hit#:5 Entry:61167 Library:WILEY7.LIB
SI:83 Formula:C10 H18 O2 CAS:58795-41-8 MolWeight:170 RetIndex:0
CompName:6-HYDROXYMETHYL-1,4,4-TRIMETHYL-BICYCLO(3.1.0)HEXAN-2-OL $$ Bicyclo[3.1.0]hexane-6-methanol, 2-hydroxy-1,4,4-trimethyl- (C.



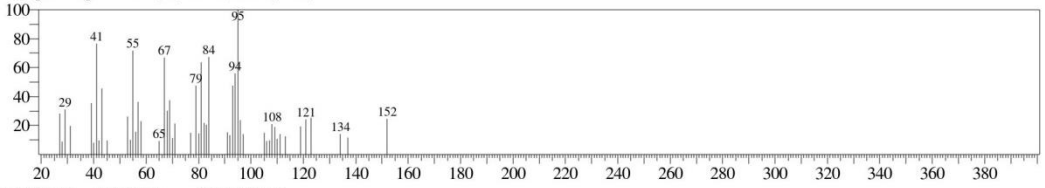
<< Target >>
Line#:8 R.Time:9.740(Scan#:1949) MassPeaks:242
RawMode:Averaged 9.735-9.745(1948-1950) BasePeak:41.00(2004)
BG Mode:Calc. from Peak Group 1 - Event 1



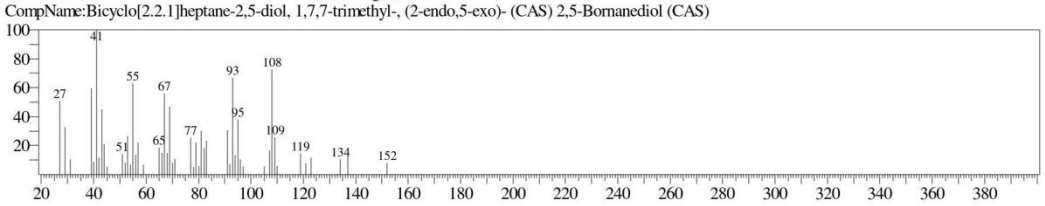
Hit#:1 Entry:40107 Library:WILEY7.LIB
SI:85 Formula:C10 H16 O CAS:77954-13-3 MolWeight:152 RetIndex:0
CompName:BENZOFURANE, HEXAHYDRO-3-METHYLEN-6-METHYL- $$



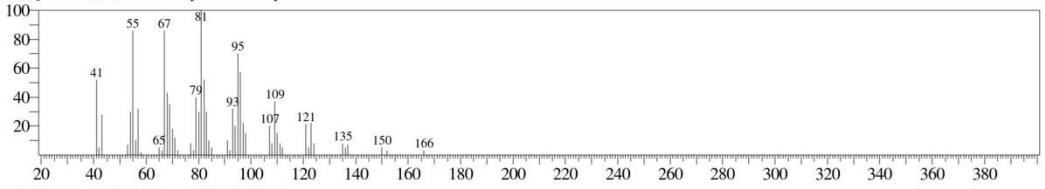
Hit#:2 Entry:60482 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O2 CAS:91139-97-8 MolWeight:170 RetIndex:0
CompName:p-Menth-8(10)-ene-2,9-diol (CAS)



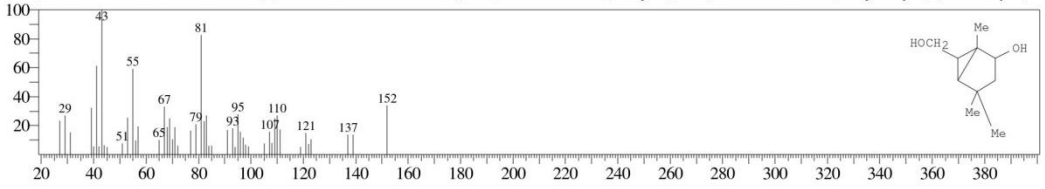
Hit#:3 Entry:60480 Library:WILEY7.LIB
SI:84 Formula:C10 H18 O2 CAS:10359-41-8 MolWeight:170 RetIndex:0
CompName:Bicyclo[2.2.1]heptane-2,5-diol, 1,7,7-trimethyl-, (2-endo,5-exo)- (CAS) 2,5-Bornanediol (CAS)



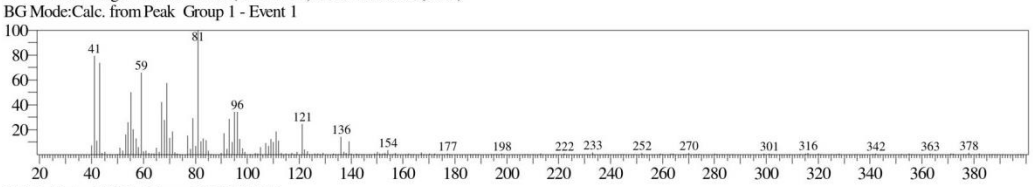
Hit#:4 Entry:160130 Library:WILEY7.LIB
SI:84 Formula:C17 H32 O CAS:64566-18-3 MolWeight:252 RetIndex:0
CompName:(R)-(-)-14-Methyl-8-hexadecyn-1-ol $$



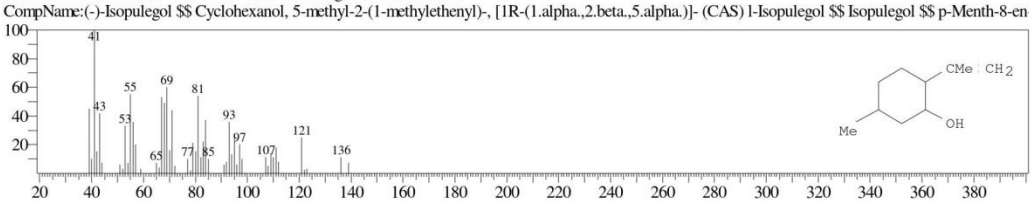
Hit#:5 Entry:61167 Library:WILEY7.LIB
SI:84 Formula:C10 H18 O2 CAS:58795-41-8 MolWeight:170 RetIndex:0
CompName:6-HYDROXYMETHYL-1,4,4-TRIMETHYL-BICYCLO(3.1.0)HEXAN-2-OL $$ Bicyclo[3.1.0]hexane-6-methanol, 2-hydroxy-1,4,4-trimethyl- (C.



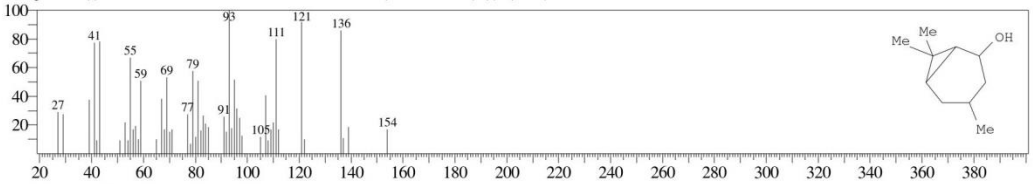
<< Target >>
Line#:9 R.Time:10.075(Scan#:2016) MassPeaks:219
RawMode:Averaged 10.070-10.080(2015-2017) BasePeak:81.05(3291)
BG Mode:Calc. from Peak Group 1 - Event 1



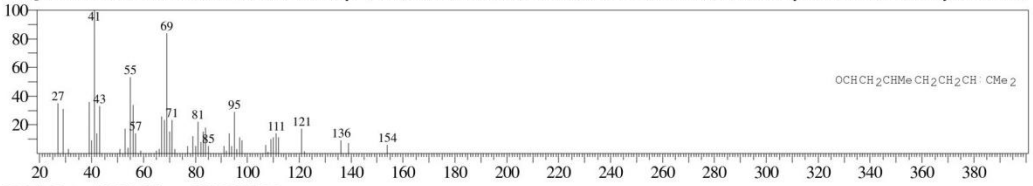
Hit#:1 Entry:43851 Library:WILEY7.LIB
SI:87 Formula:C10 H18 O CAS:89-79-2 MolWeight:154 RetIndex:0
CompName:(-)-Isopulegol $$ Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (CAS) l-Isopulegol $$ Isopulegol $$ p-Menth-8-en



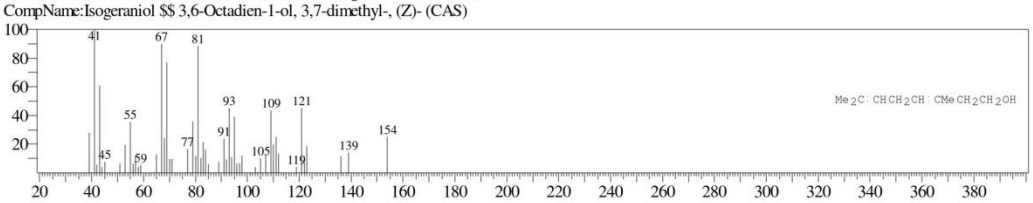
Hit#:2 Entry:43921 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O CAS:6909-21-3 MolWeight:154 RetIndex:0
CompName:(-)-CIS-CARAN-TRANS-2-OL $$ 5-Caranol, (1S,3R,5S,6R)-(-)- (CAS)



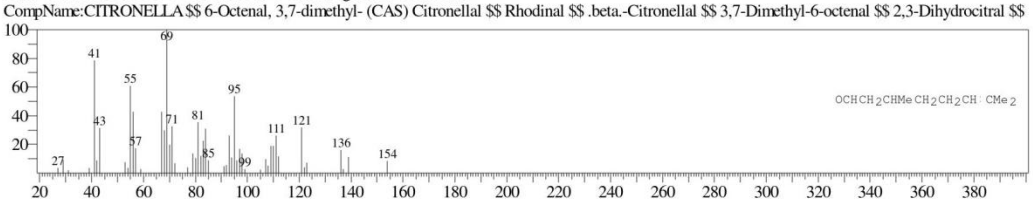
Hit#:3 Entry:43603 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



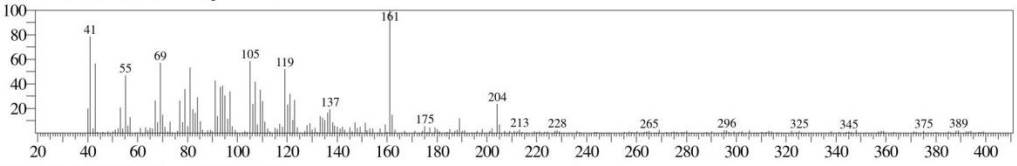
Hit#:4 Entry:43684 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O CAS:5944-20-7 MolWeight:154 RetIndex:0
CompName:Isogeraniol $$ 3,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (CAS)



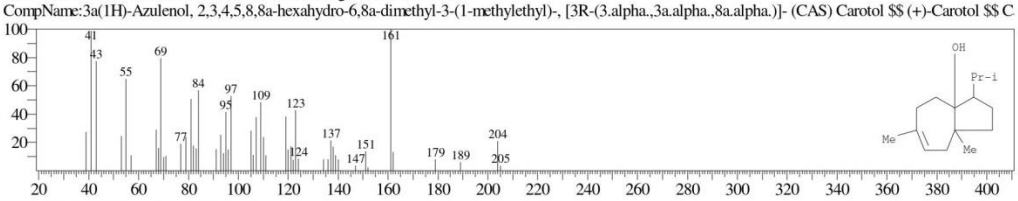
Hit#:5 Entry:43617 Library:WILEY7.LIB
SI:85 Formula:C10 H18 O CAS:106-23-0 MolWeight:154 RetIndex:0
CompName:CITRONELLA $$ 6-Octenal, 3,7-dimethyl- (CAS) Citronellal $$ Rhodinal $$ .beta.-Citronellal $$ 3,7-Dimethyl-6-octenal $$ 2,3-Dihydrocitral $$



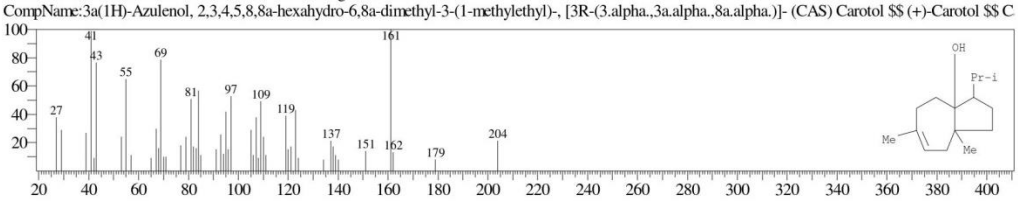
<< Target >>
Line#:10 R.Time:13.730(Scan#:2747) MassPeaks:258
RawMode:Averaged 13.725-13.735(2746-2748) BasePeak:161.10(1504)
BG Mode:Calc. from Peak Group 1 - Event 1



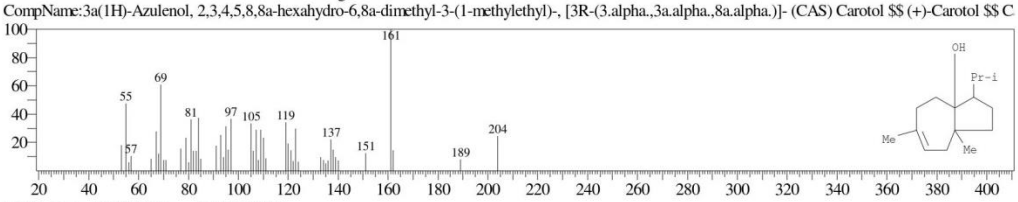
Hit#:1 Entry:123990 Library:WILEY7.LIB
SI:87 Formula:C15 H26 O CAS:465-28-1 MolWeight:222 RetIndex:0
CompName:3a(1H)-Azulenol, 2,3,4,5,8,8a-hexahydro-6,8a-dimethyl-3-(1-methylethyl)-, [3R-(3.alpha.,3a.alpha.,8a.alpha.)]- (CAS) Carotol $$ (+)-Carotol $$ C



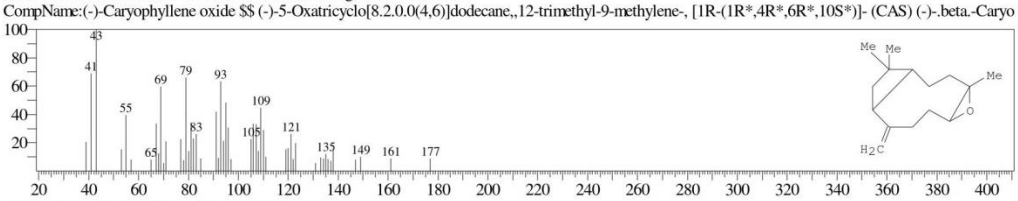
Hit#:2 Entry:123988 Library:WILEY7.LIB
SI:85 Formula:C15 H26 O CAS:465-28-1 MolWeight:222 RetIndex:0
CompName:3a(1H)-Azulenol, 2,3,4,5,8,8a-hexahydro-6,8a-dimethyl-3-(1-methylethyl)-, [3R-(3.alpha.,3a.alpha.,8a.alpha.)]- (CAS) Carotol $$ (+)-Carotol $$ C



Hit#:3 Entry:123989 Library:WILEY7.LIB
SI:83 Formula:C15 H26 O CAS:465-28-1 MolWeight:222 RetIndex:0
CompName:3a(1H)-Azulenol, 2,3,4,5,8,8a-hexahydro-6,8a-dimethyl-3-(1-methylethyl)-, [3R-(3.alpha.,3a.alpha.,8a.alpha.)]- (CAS) Carotol $$ (+)-Carotol $$ C



Hit#:4 Entry:121059 Library:WILEY7.LIB
SI:81 Formula:C15 H24 O CAS:1139-30-6 MolWeight:220 RetIndex:0
CompName:(-)-Caryophyllene oxide $$ (-)-5-Oxatricyclo[8.2.0.0(4,6)]dodecane,,12-trimethyl-9-methylene-, [1R-(1R*,4R*,6R*,10S*)]- (CAS) (-)-.beta.-Caryo



Hit#:5 Entry:123984 Library:WILEY7.LIB
SI:81 Formula:C15 H26 O CAS:465-24-7 MolWeight:222 RetIndex:0
CompName:LONGIBORNEOL $$ 1,4-METHANOAZULEN-9-OL, DECAHYDRO-1,5,5,8A-TETRAMETHYL-, [1R-(1.ALPHA.,3A.BETA., $$