

1/ 63

FIG. 1

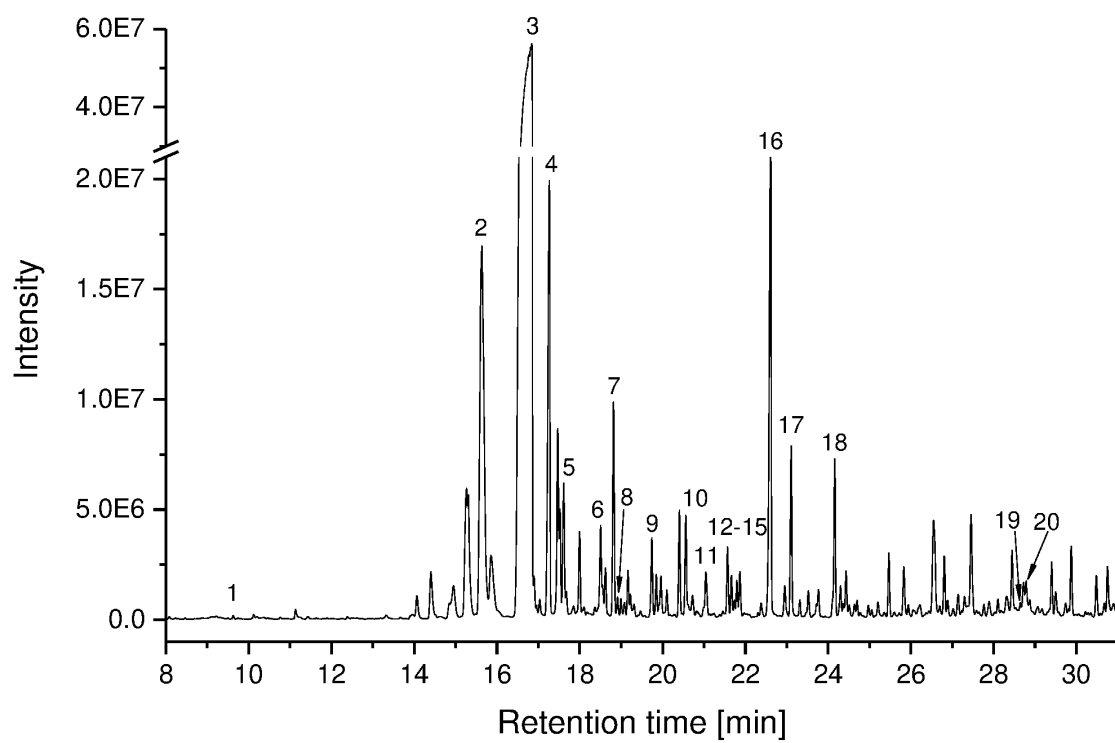
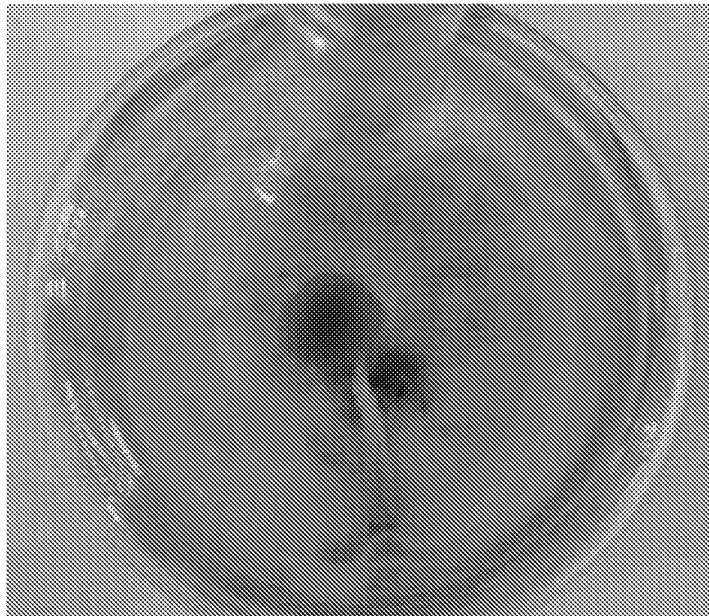


FIG. 1 (cont'd)

No.	Compound	RI ^{exp}	RI ^{lit}
1	trans-.beta.-Ocimene	1231	1232
2	alpha-Cubebene	1453	1455
3	Delta(6)-protoilludene	1496	
4	α -Isocomene	1516	1511
5	β -Cubebene	1531	1531
6	Longifolene	1568	1562
7	β -Copaene	1581	1585
8	Caryophyllene	1585	1587
9	Cadina-3,5-diene	1621	1626
10	α -Humulene	1657	1653
11	γ -Muurolene	1679	1679
12	Germacrene D	1696	1694
13	β -Selinene	1705	1705
14	α -Selinene	1711	1713
15	α -Muurolene	1714	1715
16	δ -Cadinene	1747	1742
17	Cubenene	1770	1773
18	Calamenene	1819	1822
19	Epicubenol	2039	2035
20	Cubenol	2046	2043

3/ 63

FIG 1 (cont'd)



4/ 63

FIG. 2A

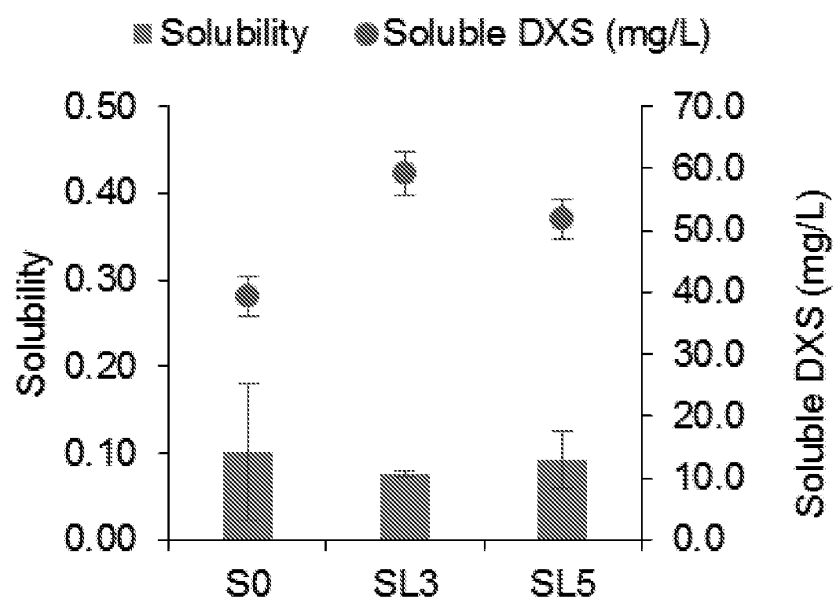
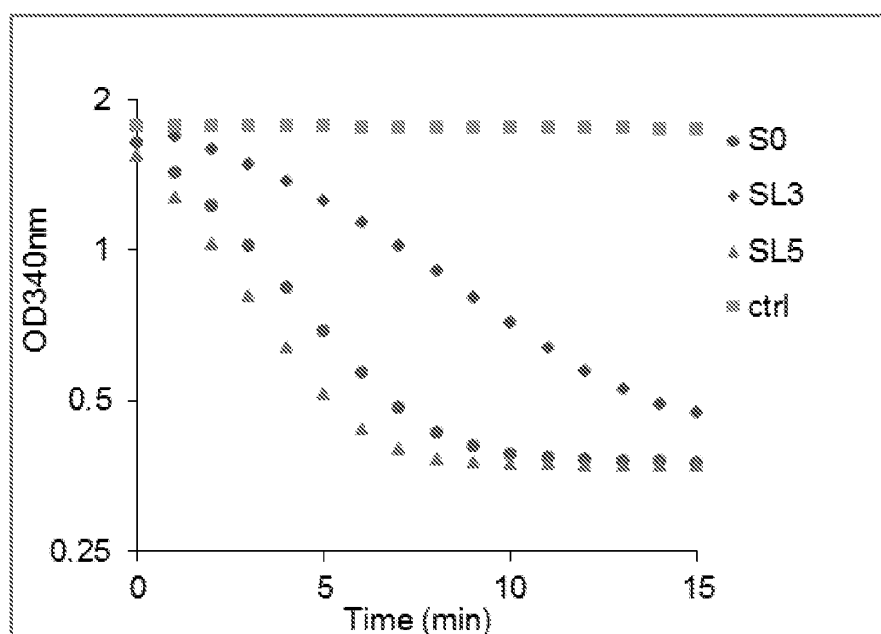


FIG. 2B



5/ 63

FIG. 2C

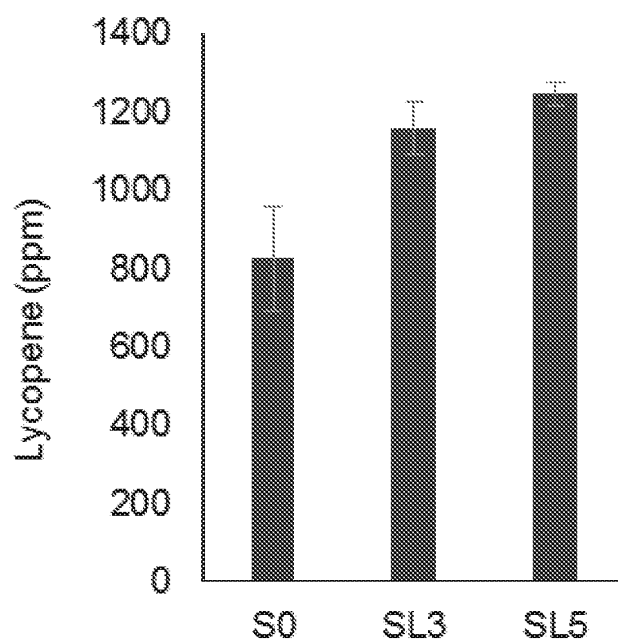


FIG. 2D

Abbreviations	Sequences
S0	Wild type
SL3	H105T
SL5	E210D / Q459L/ L415T

FIG. 3

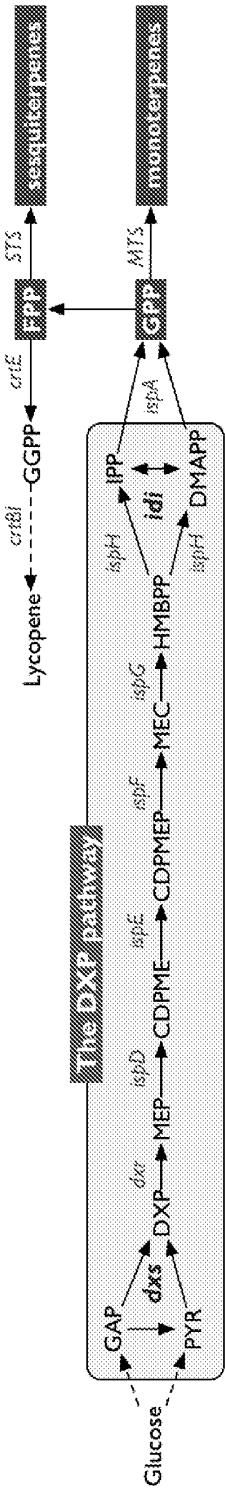
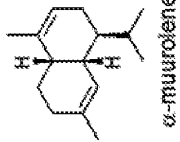
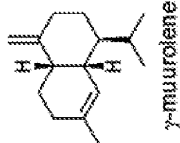
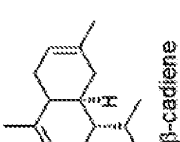
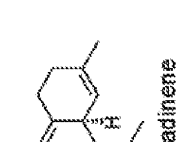
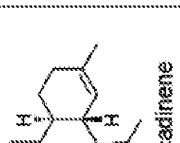
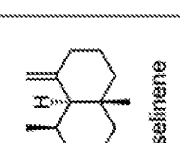
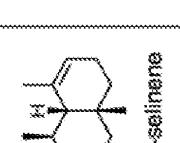
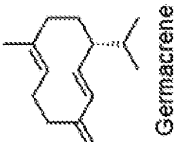
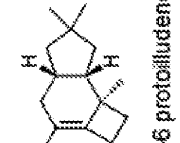
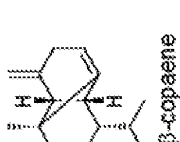
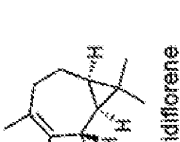
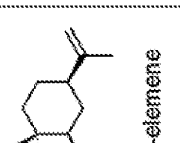
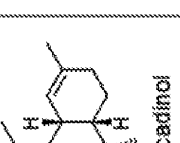
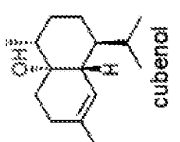
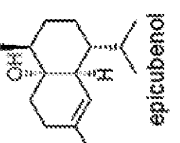
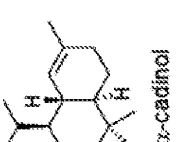
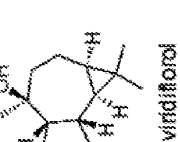
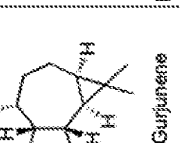
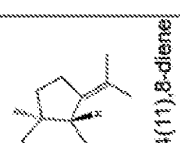
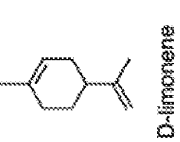
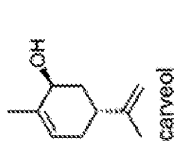
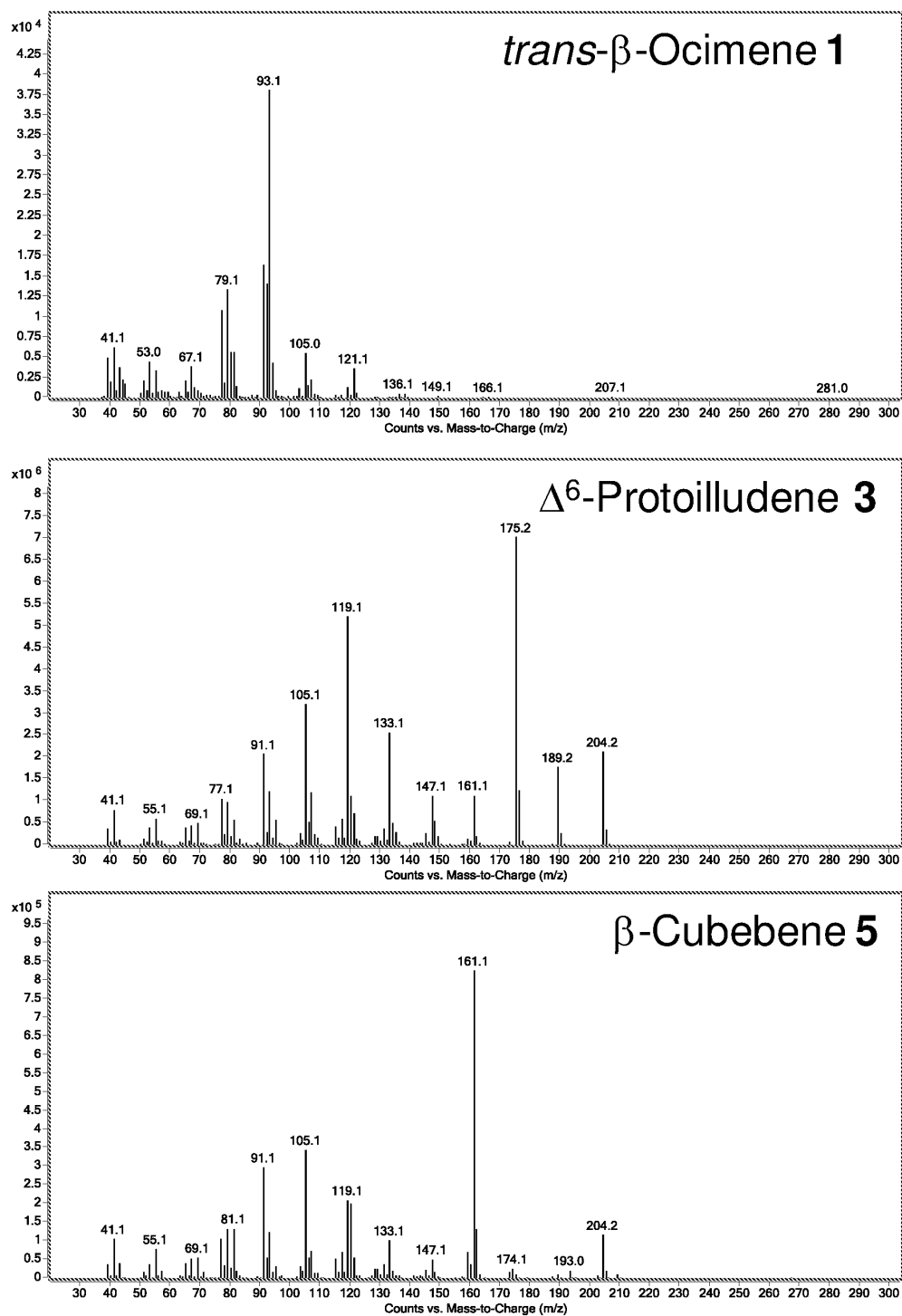


FIG. 4

 α -murolene	 γ -murolene	 β -cadinene	 δ -cadinene	 γ -cadinene	 β -selinene	 epi- α -selinene
 Germacrene D	 Δ -6 protolludene	 β -copaene	 viridiflorene	 β -elemene	 δ -cadinol	 cubebol
 cubenol	 epicubenol	 α -cadinol	 viridiflorol	 β -Gurjunene	 Dauca-4(11),8-diene	
 D-limonene	 carvedol	 β -myrcene				

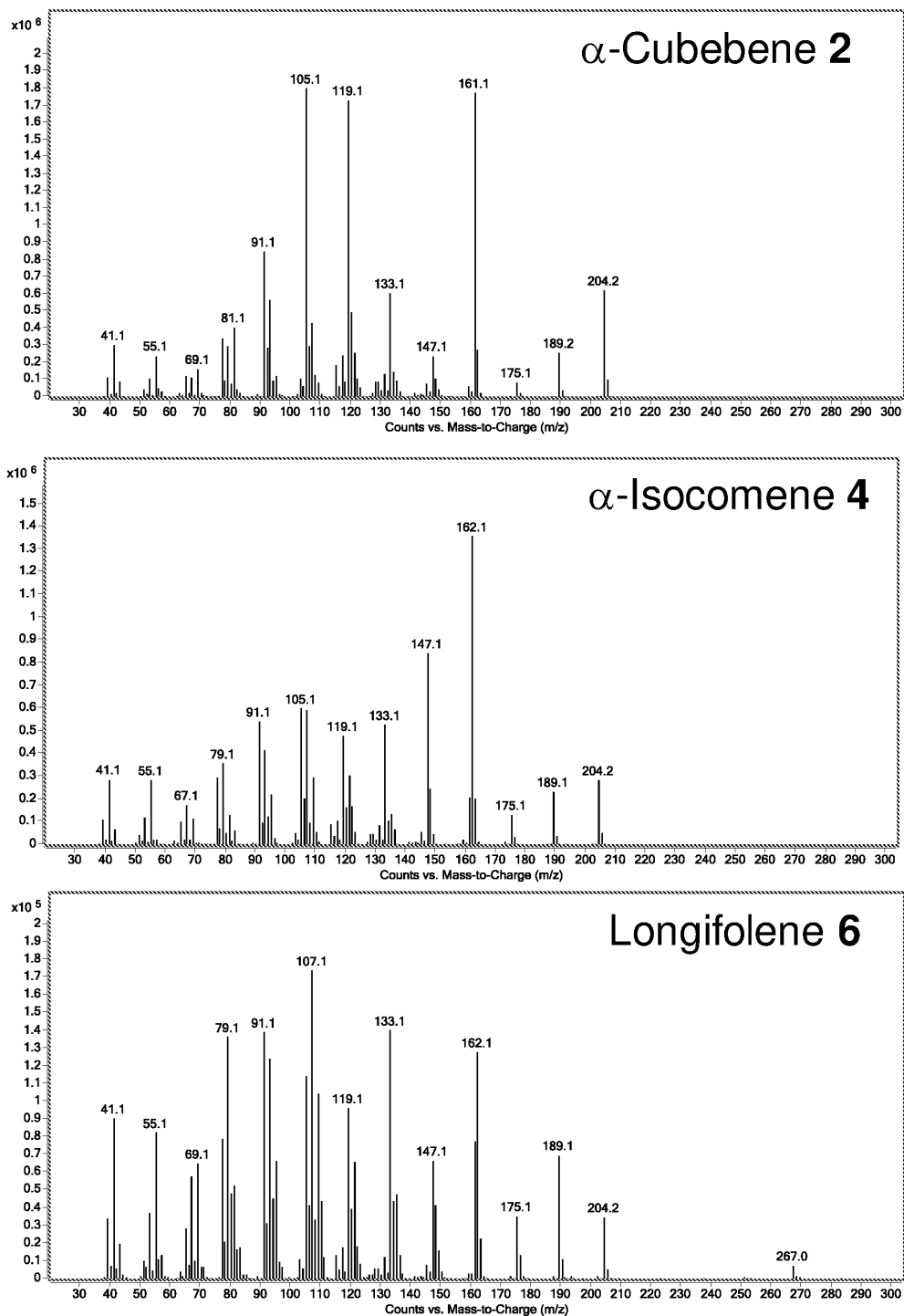
8/ 63

FIG. 5



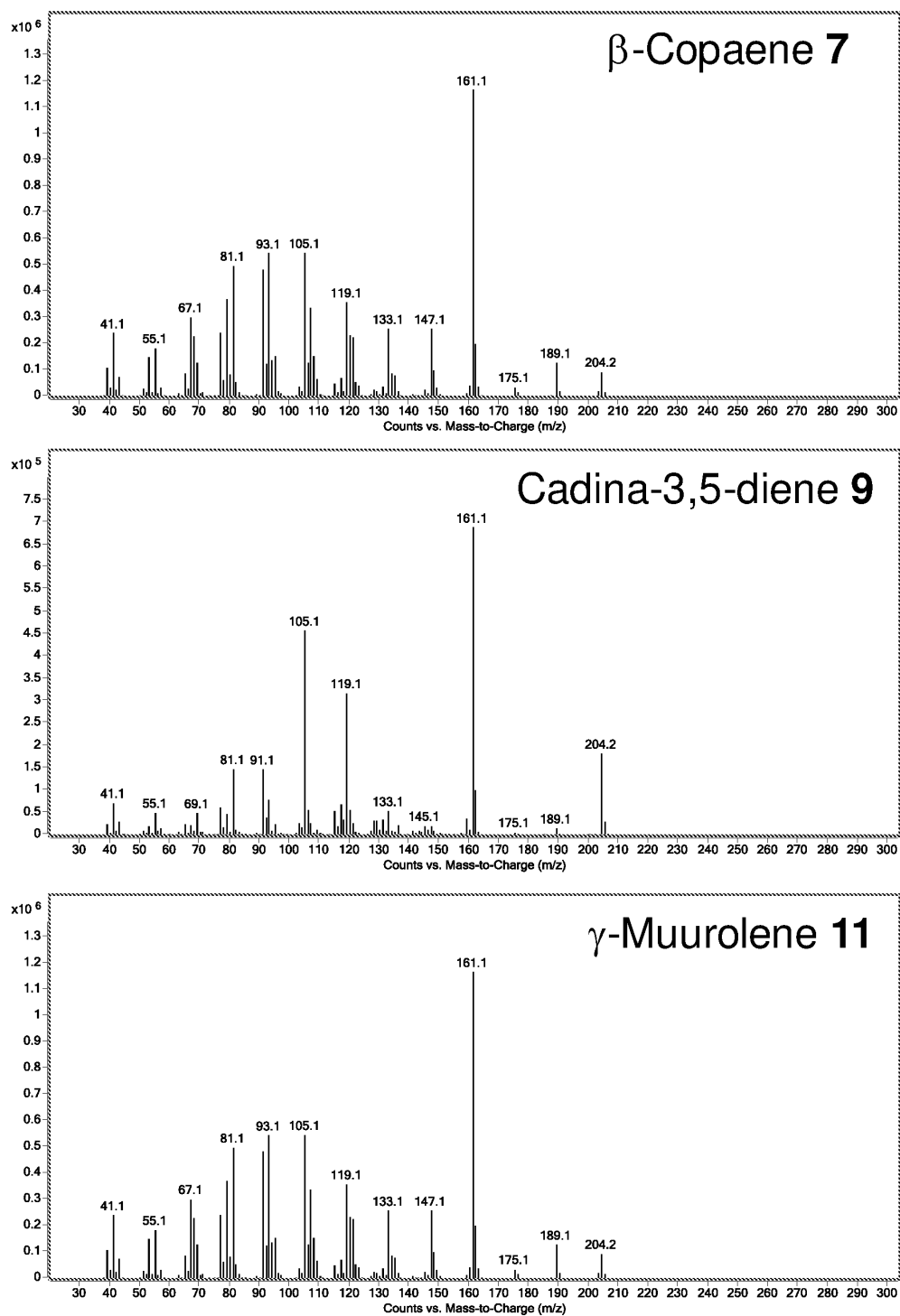
9/ 63

FIG. 5 (cont'd)



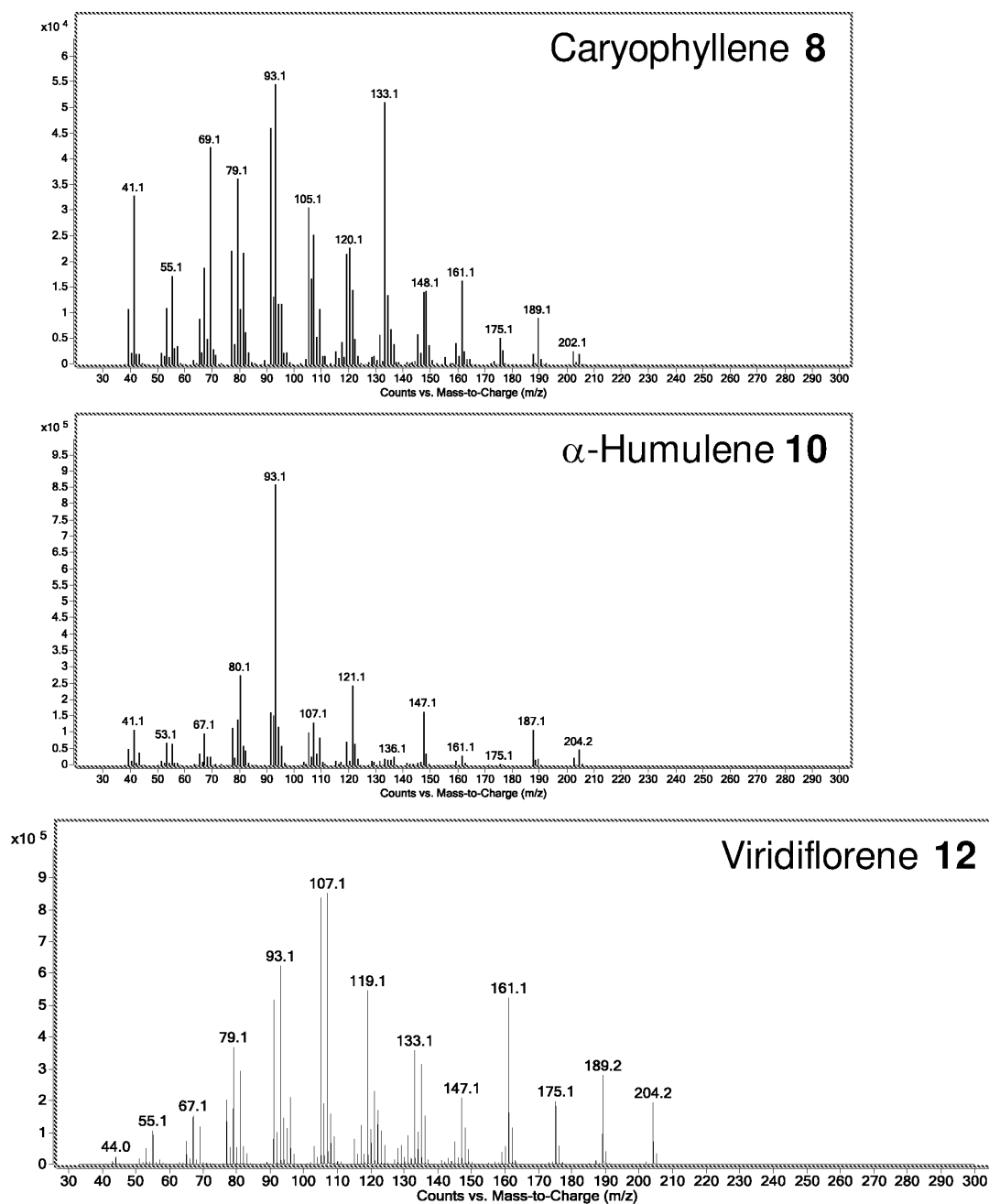
10/ 63

FIG. 5 (cont'd)



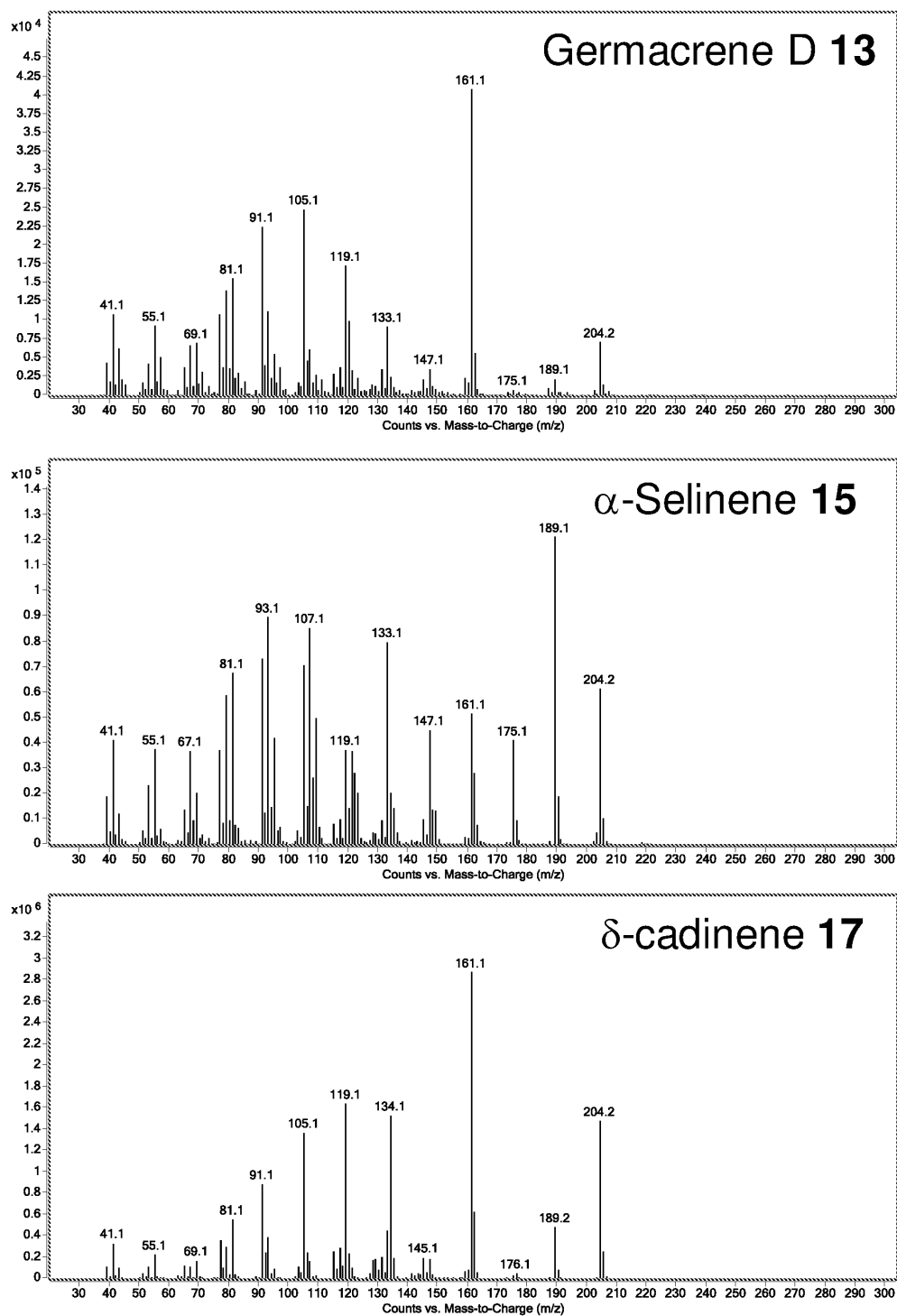
11/ 63

FIG. 5 (cont'd)



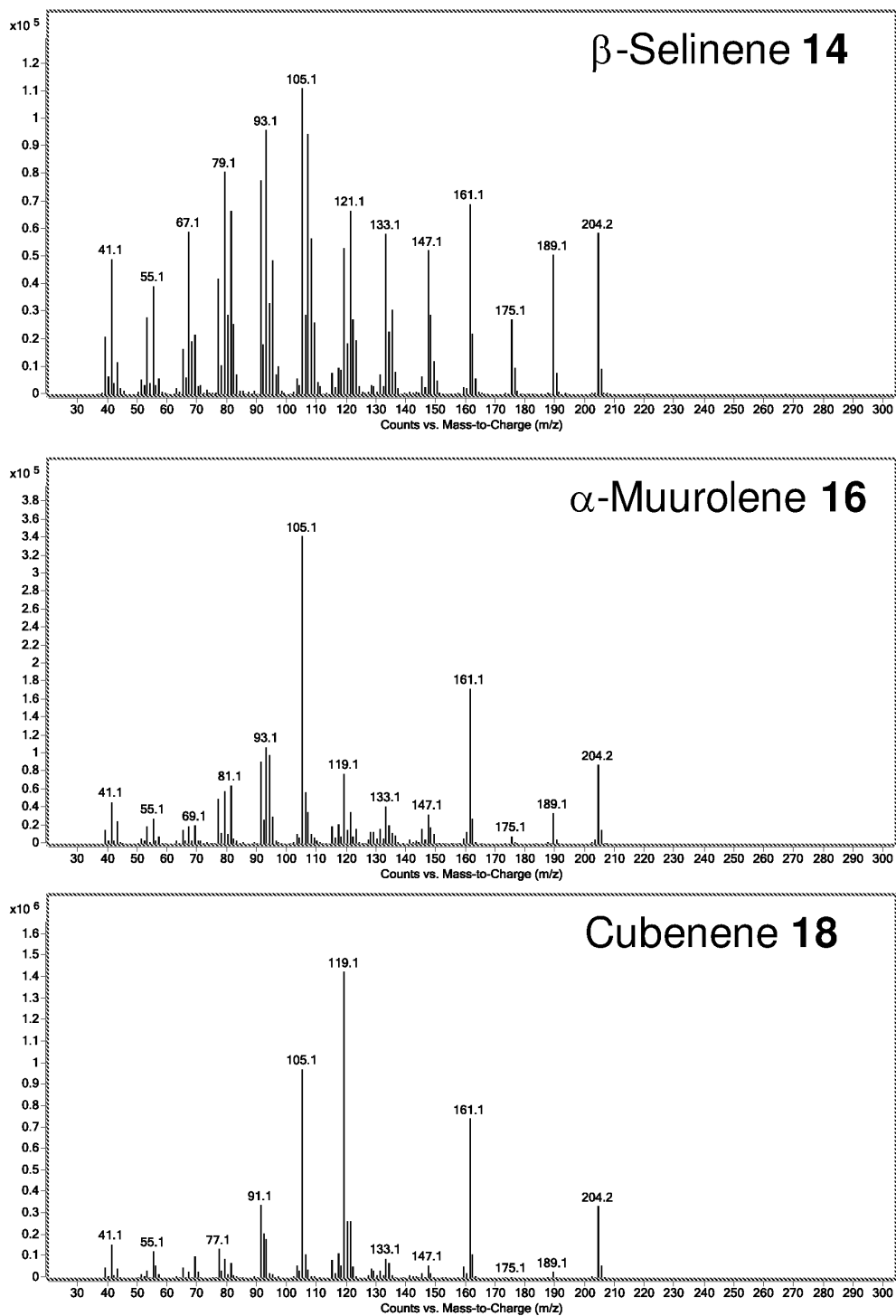
12/ 63

FIG. 5 (cont'd)



13/ 63

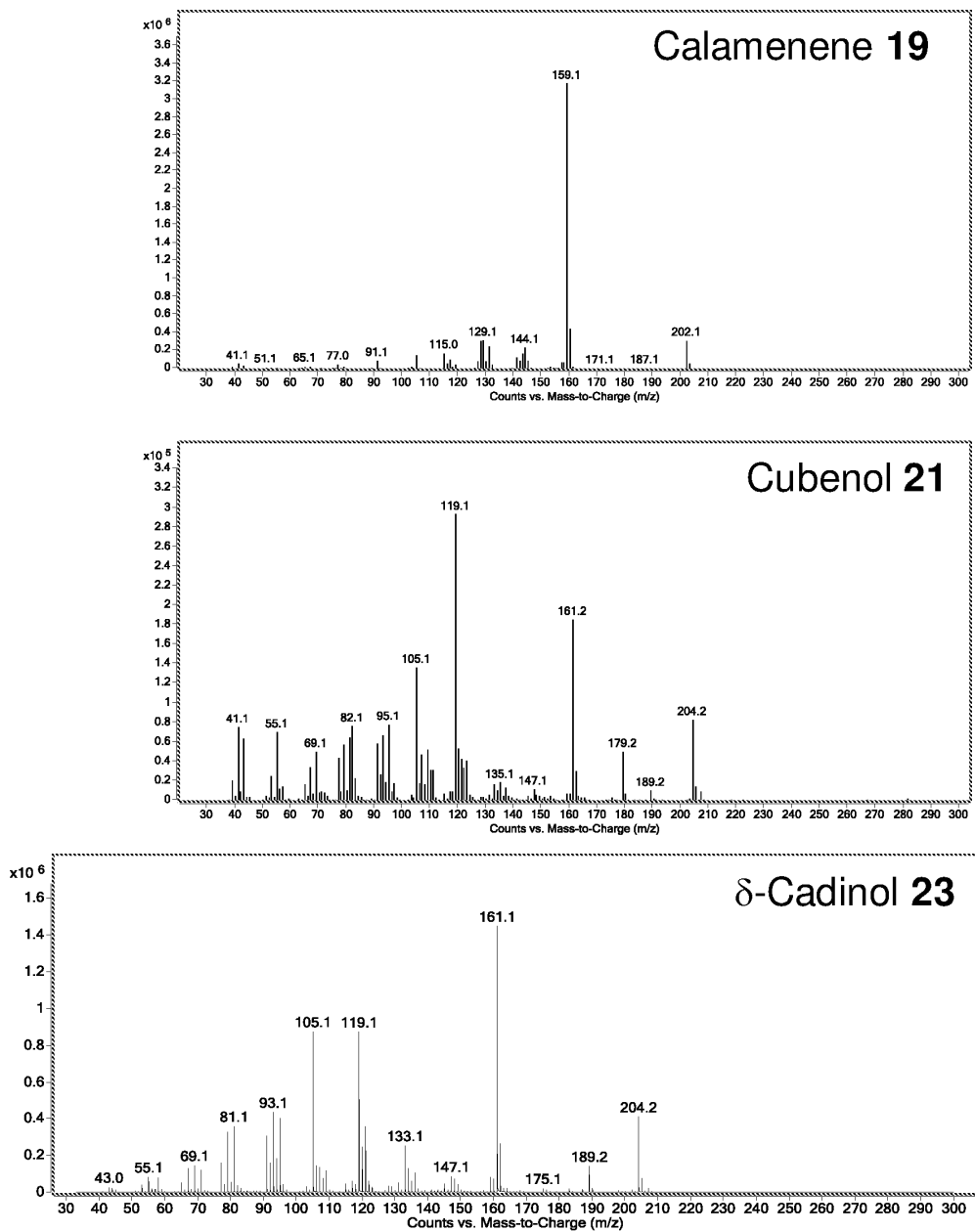
FIG. 5 (cont'd)



SUBSTITUTE SHEET (RULE 26)

14/ 63

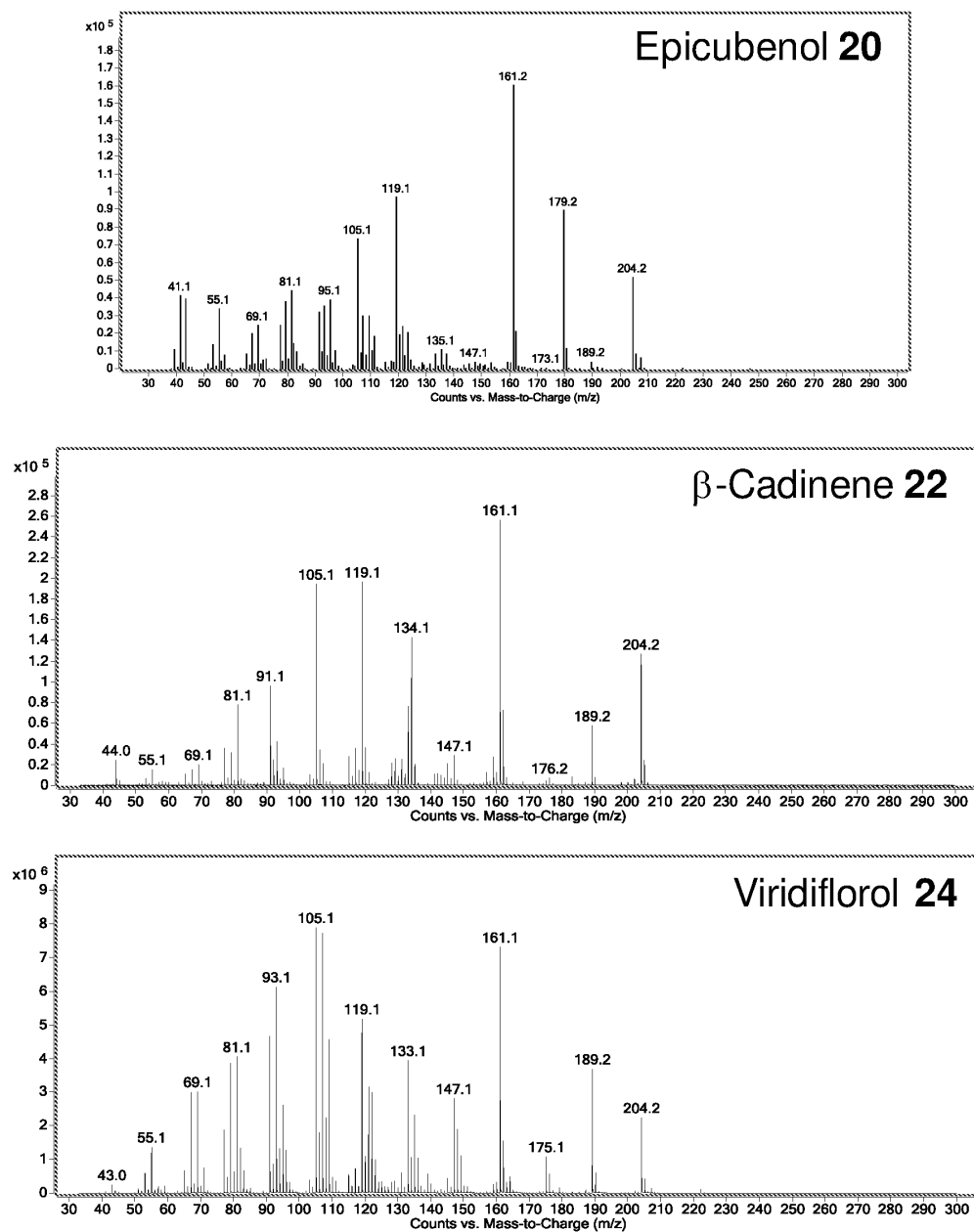
FIG. 5 (cont'd)



SUBSTITUTE SHEET (RULE 26)

15/ 63

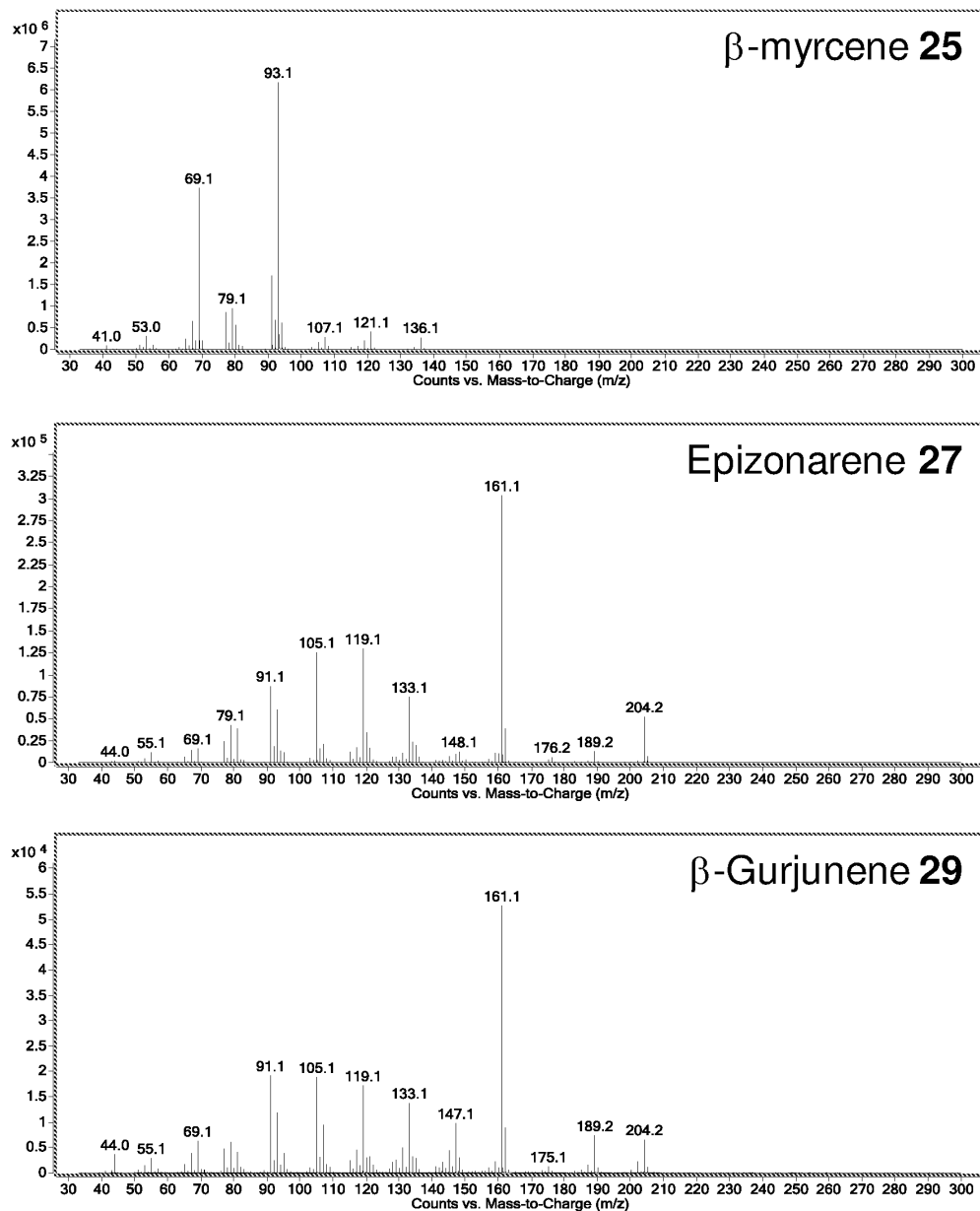
FIG. 5 (cont'd)



SUBSTITUTE SHEET (RULE 26)

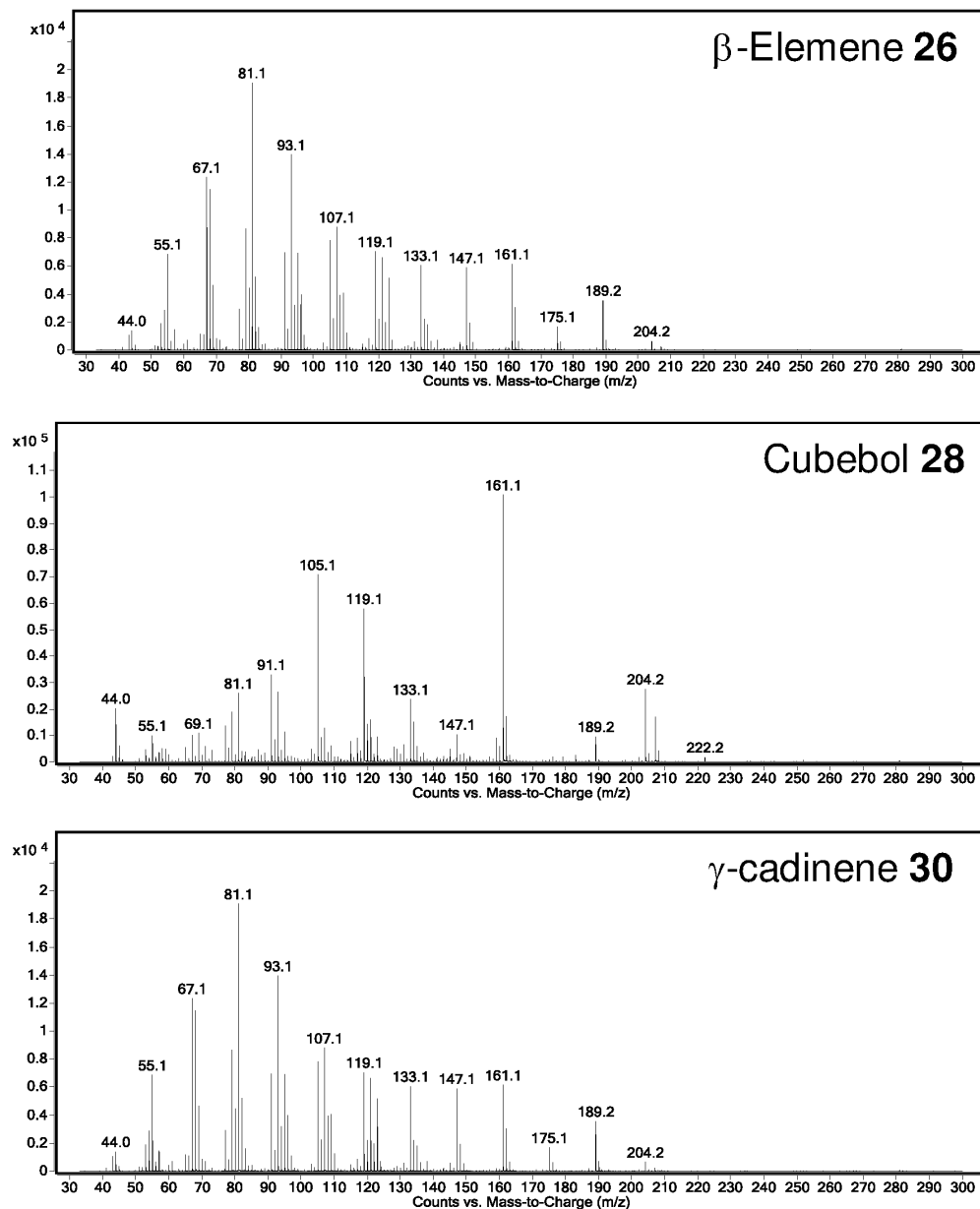
16/ 63

FIG. 5 (cont'd)



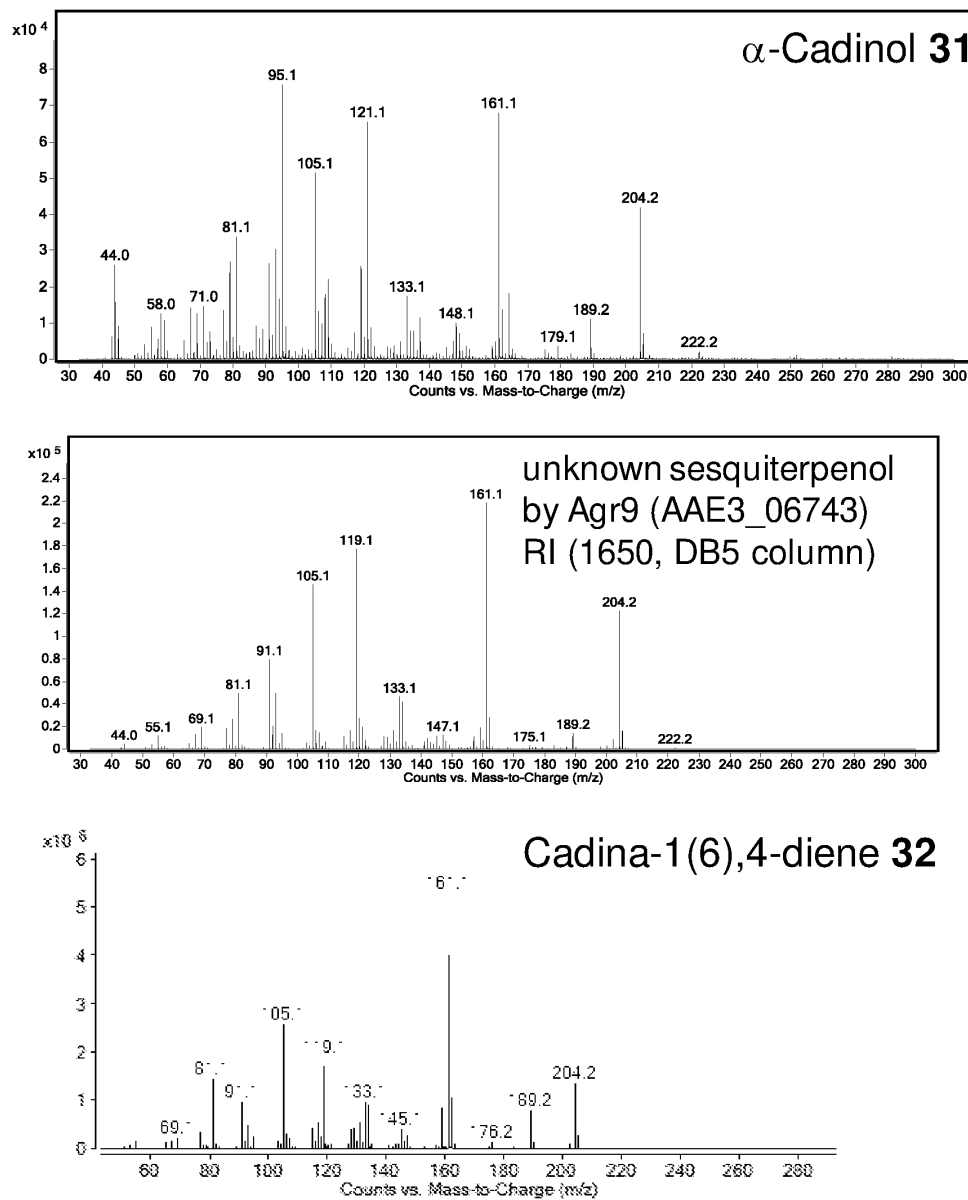
17/ 63

FIG. 5 (cont'd)



18/ 63

FIG. 5 (cont'd)



19/ 63

FIG. 6

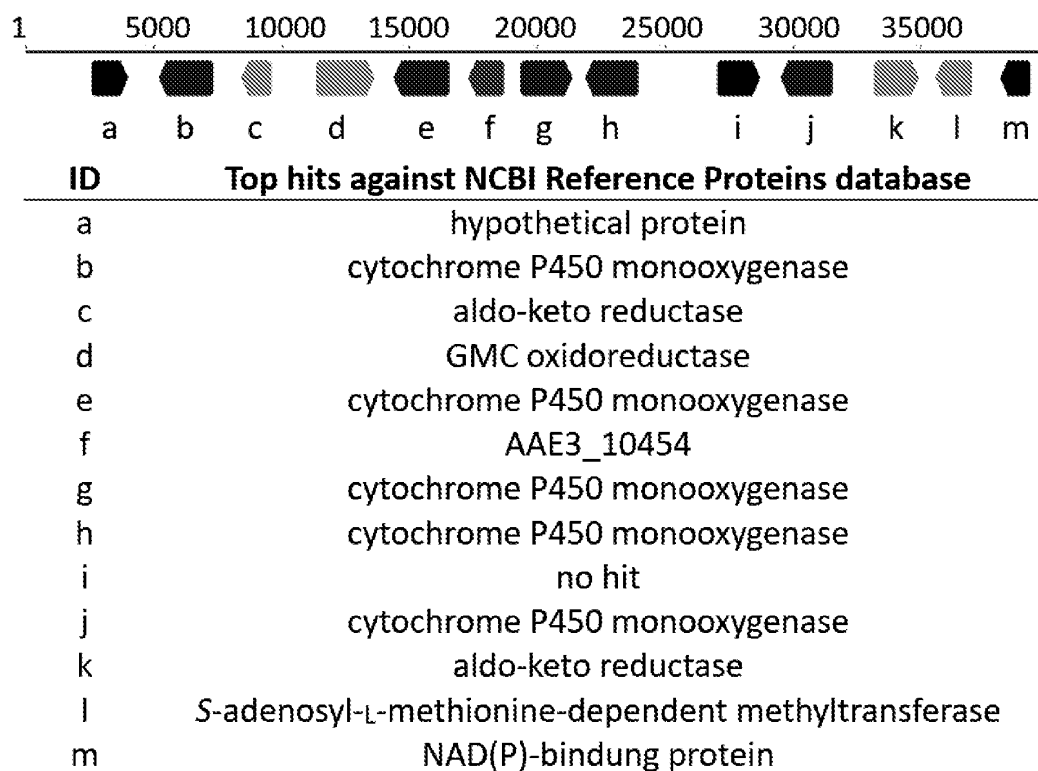


FIG. 6 (cont'd)

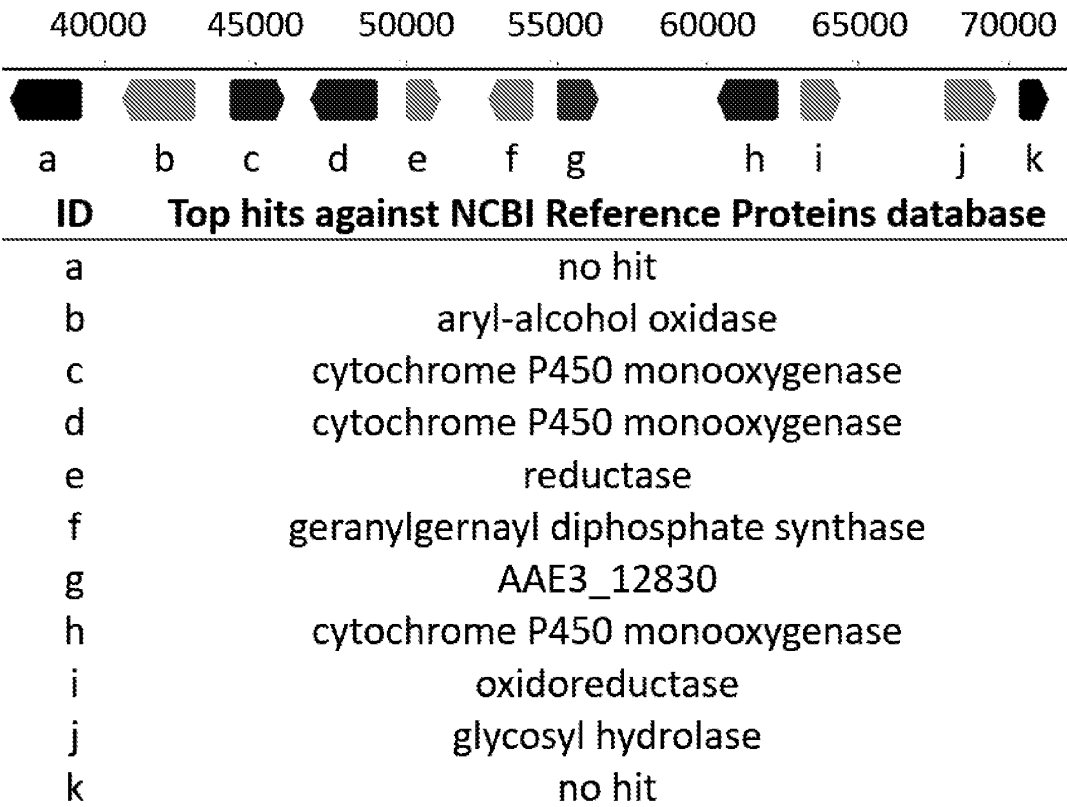
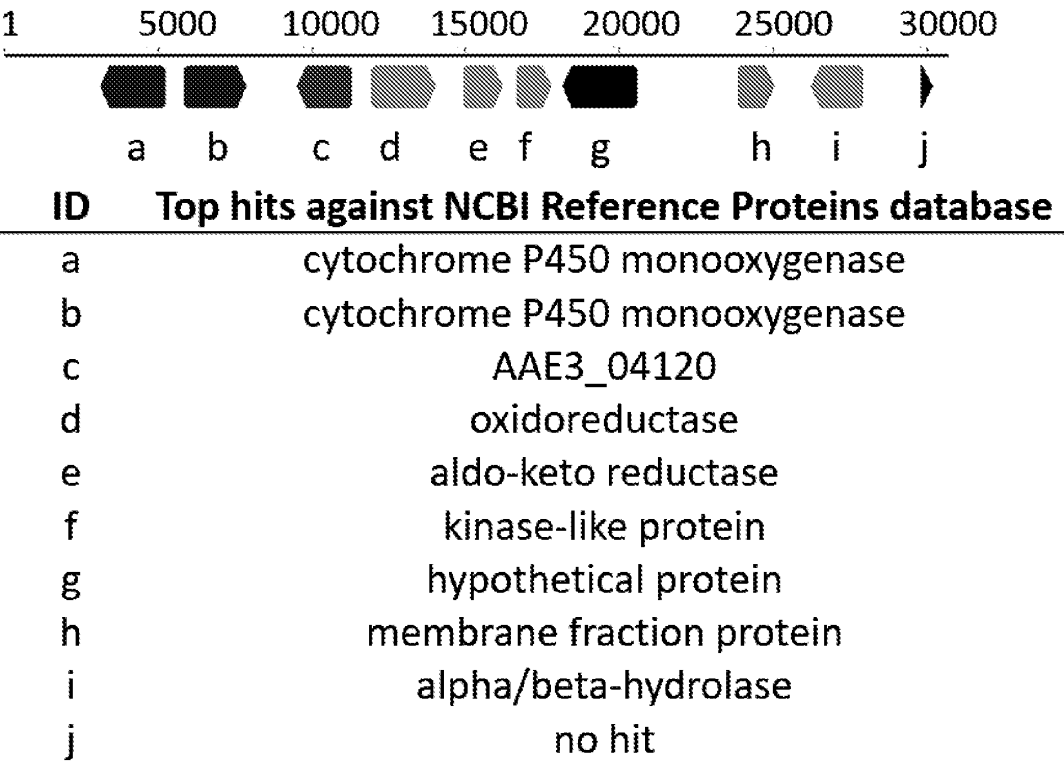
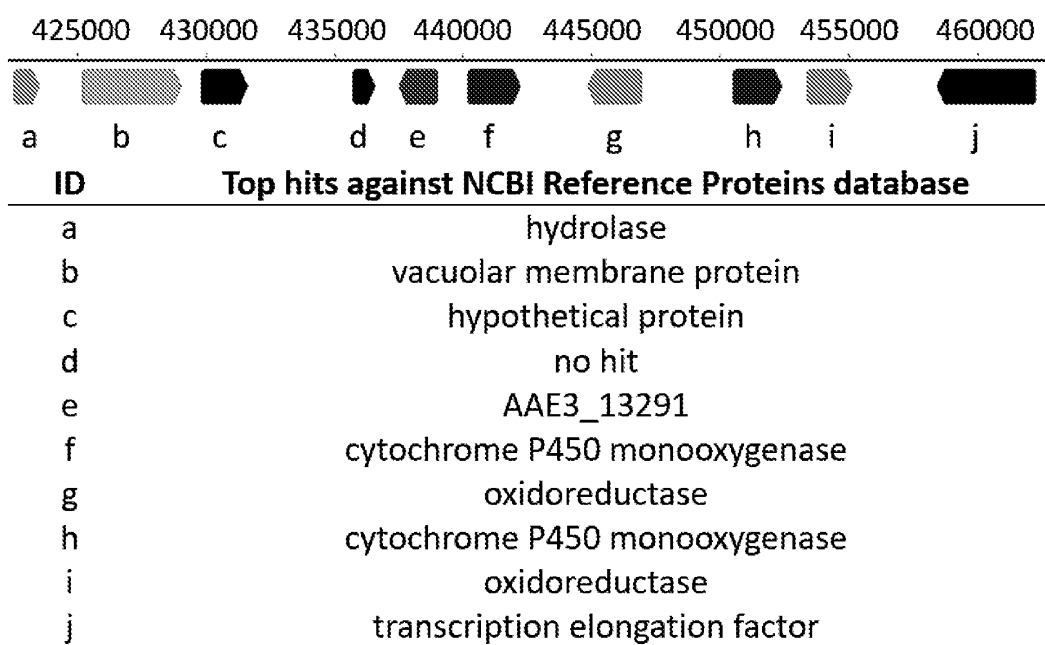


FIG. 6 (cont'd)



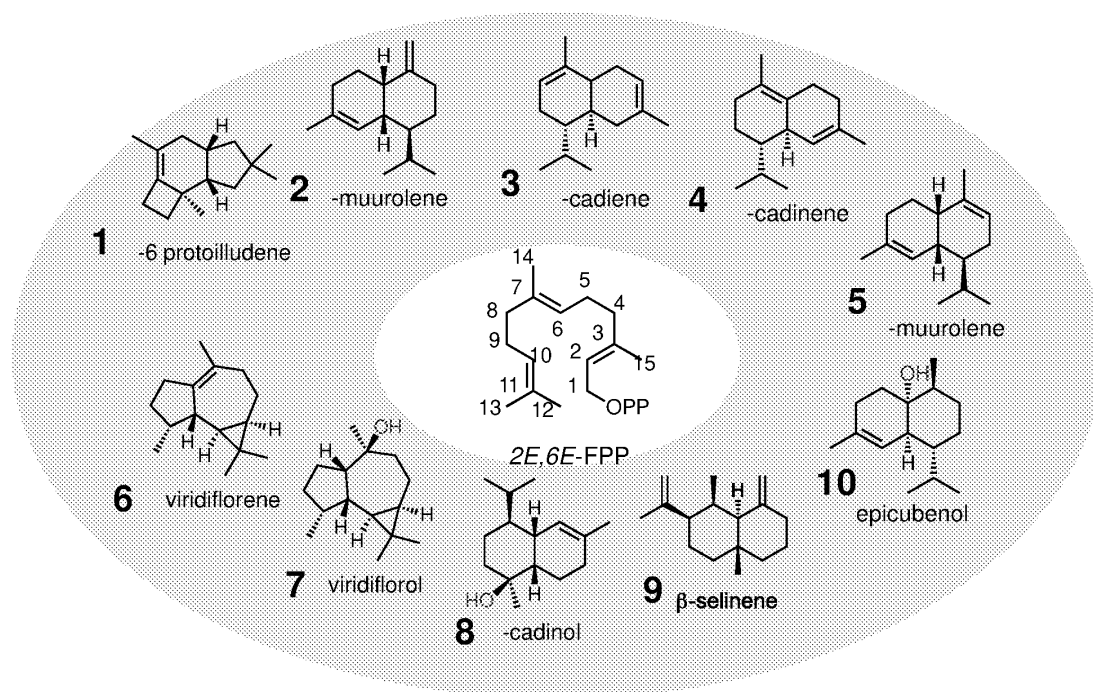
22/ 63

FIG. 6 (cont'd)



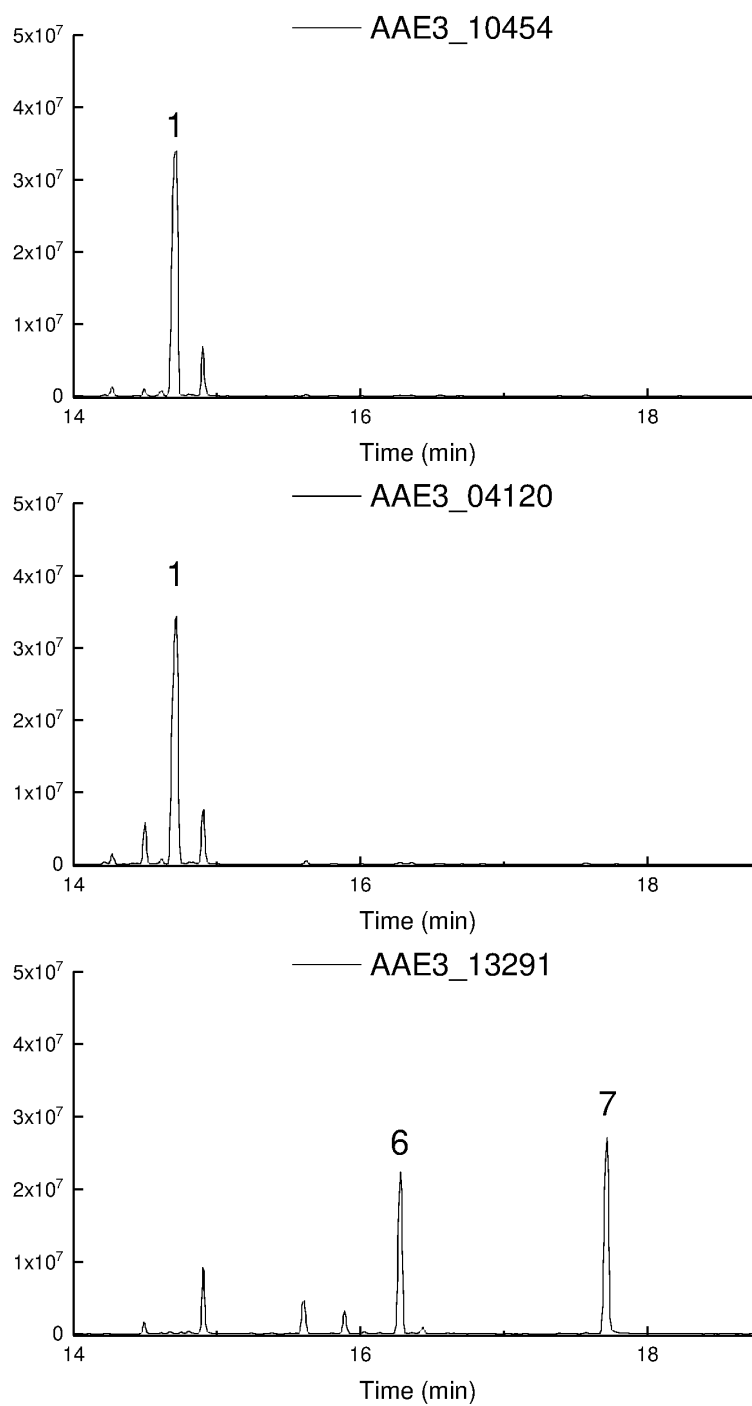
23/ 63

FIG. 7



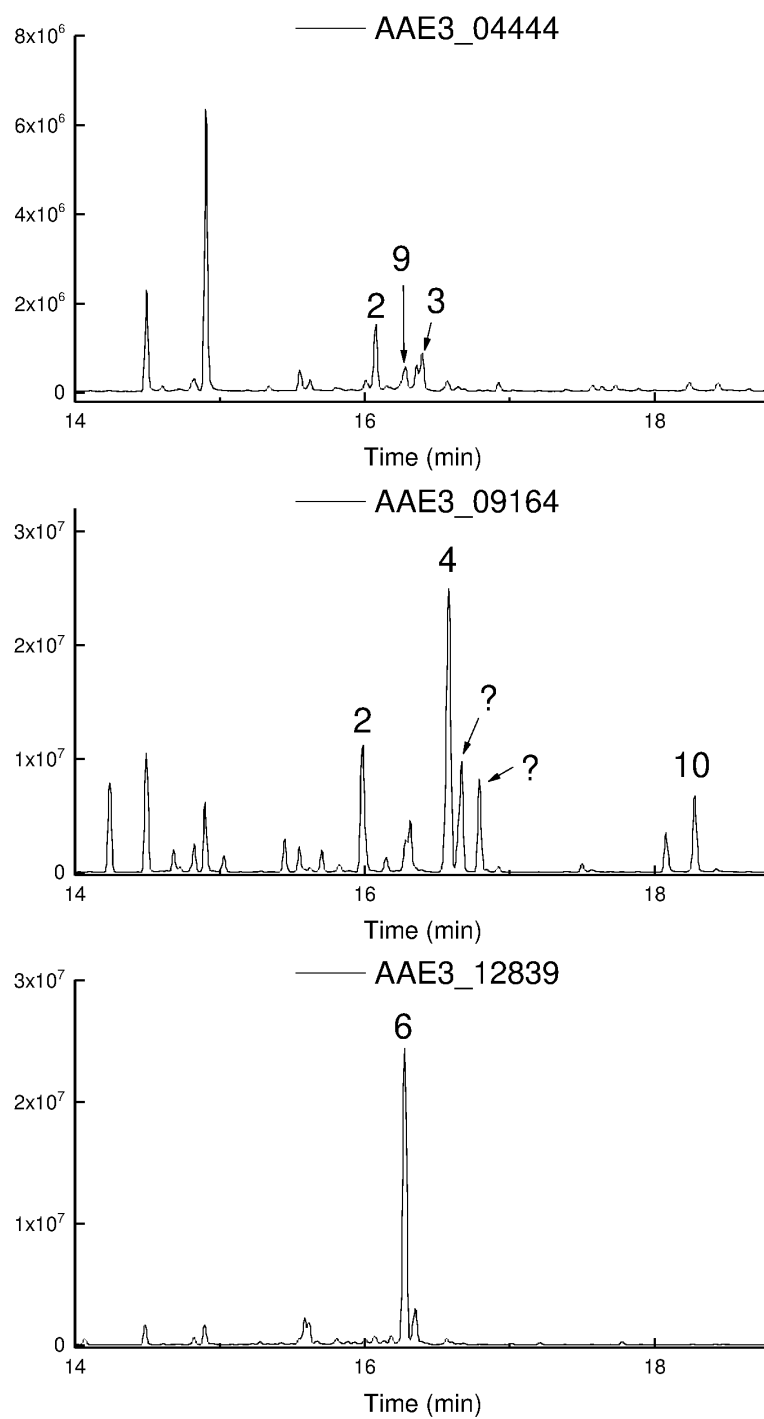
24/ 63

FIG. 7 (cont'd)



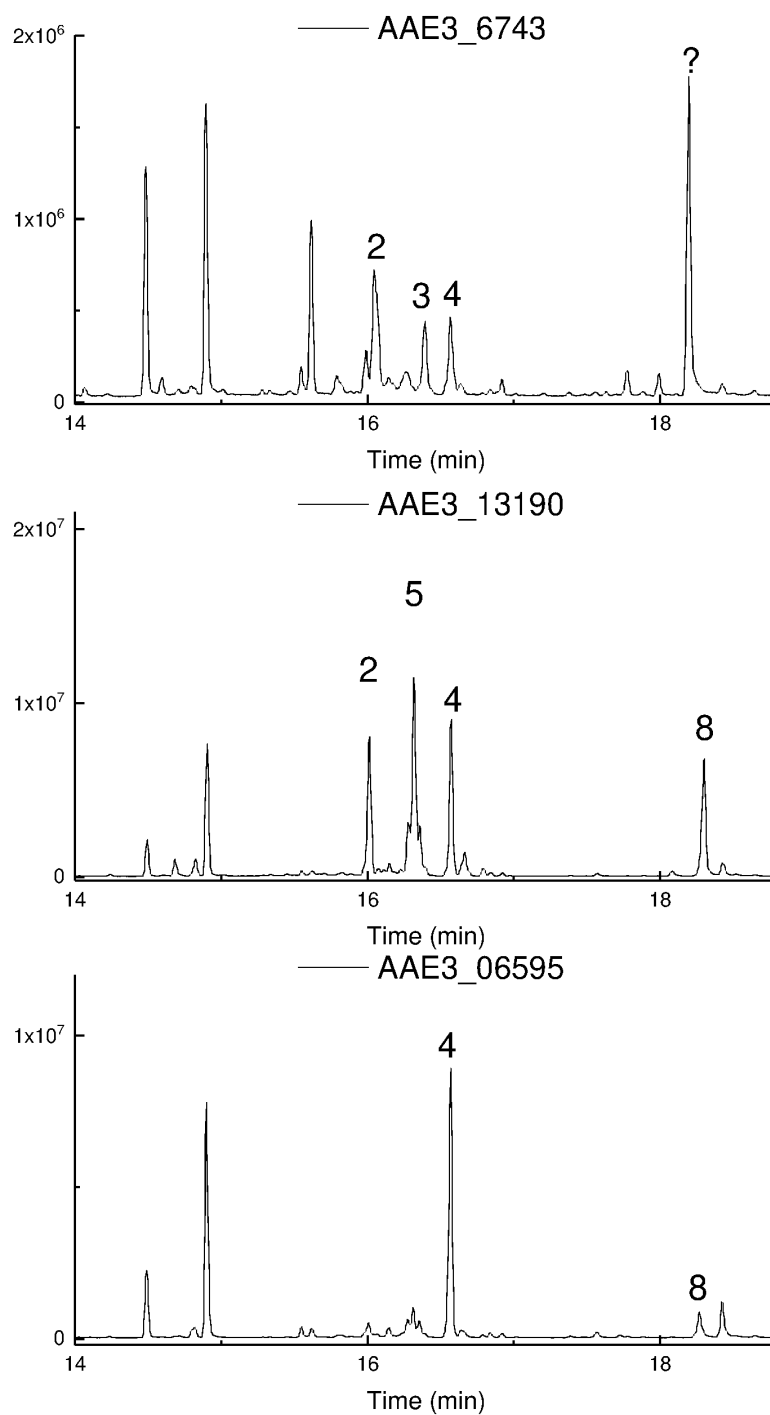
25/ 63

FIG. 7 (cont'd)



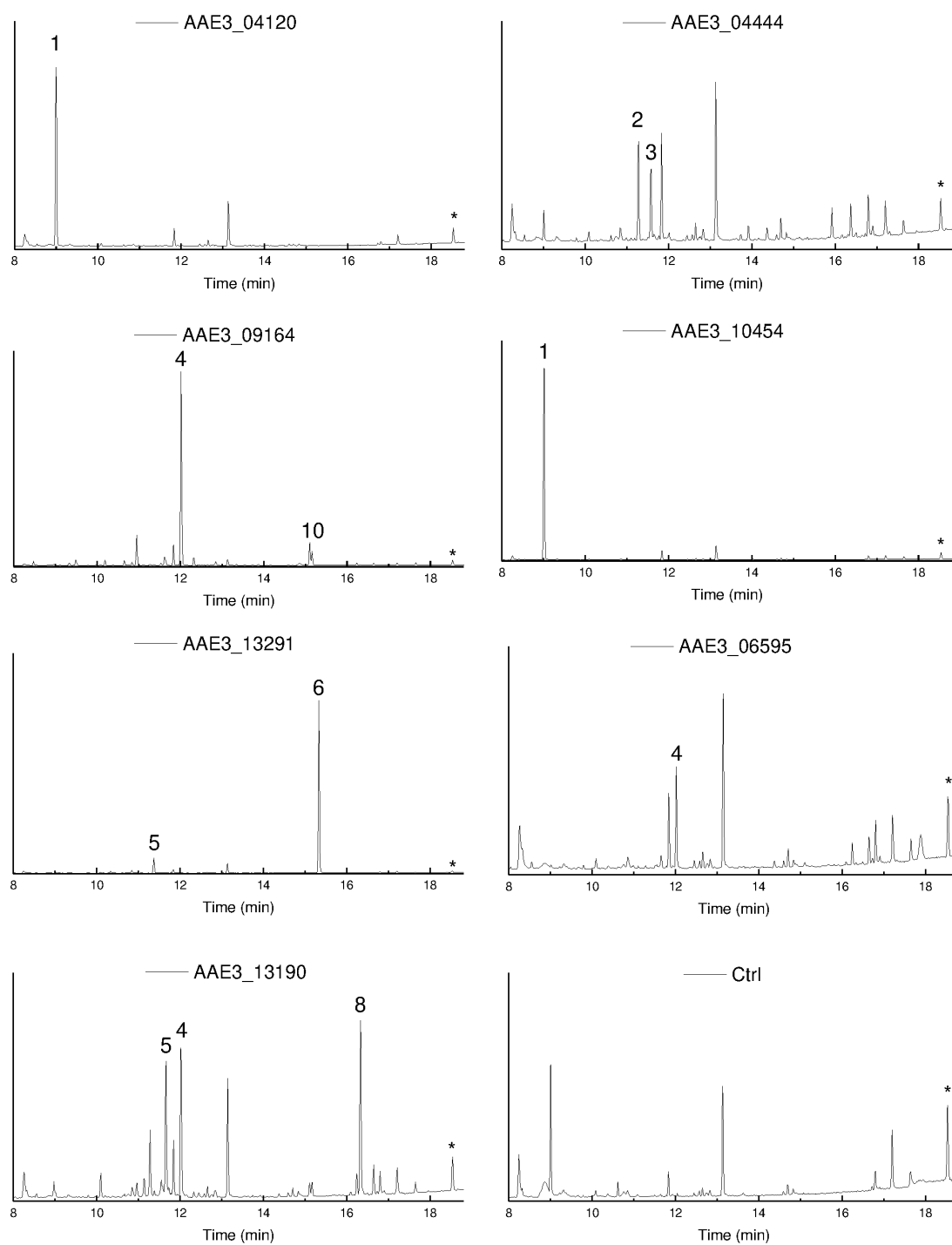
26/ 63

FIG. 7 (cont'd)



27/ 63

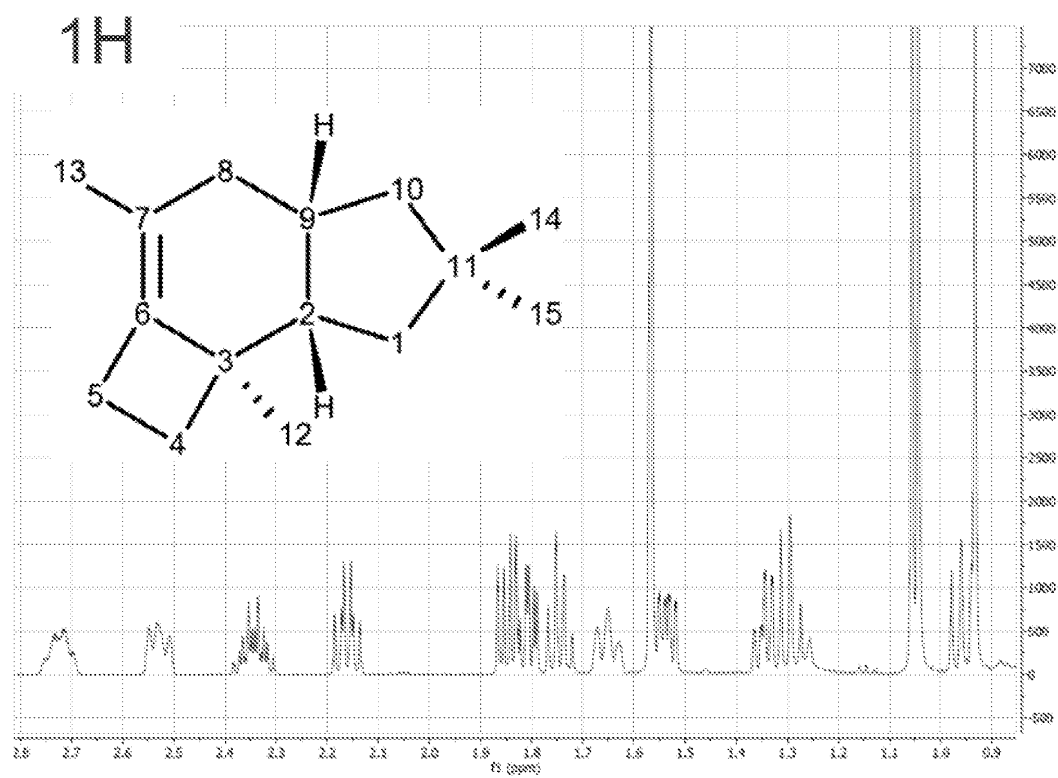
FIG. 8



SUBSTITUTE SHEET (RULE 26)

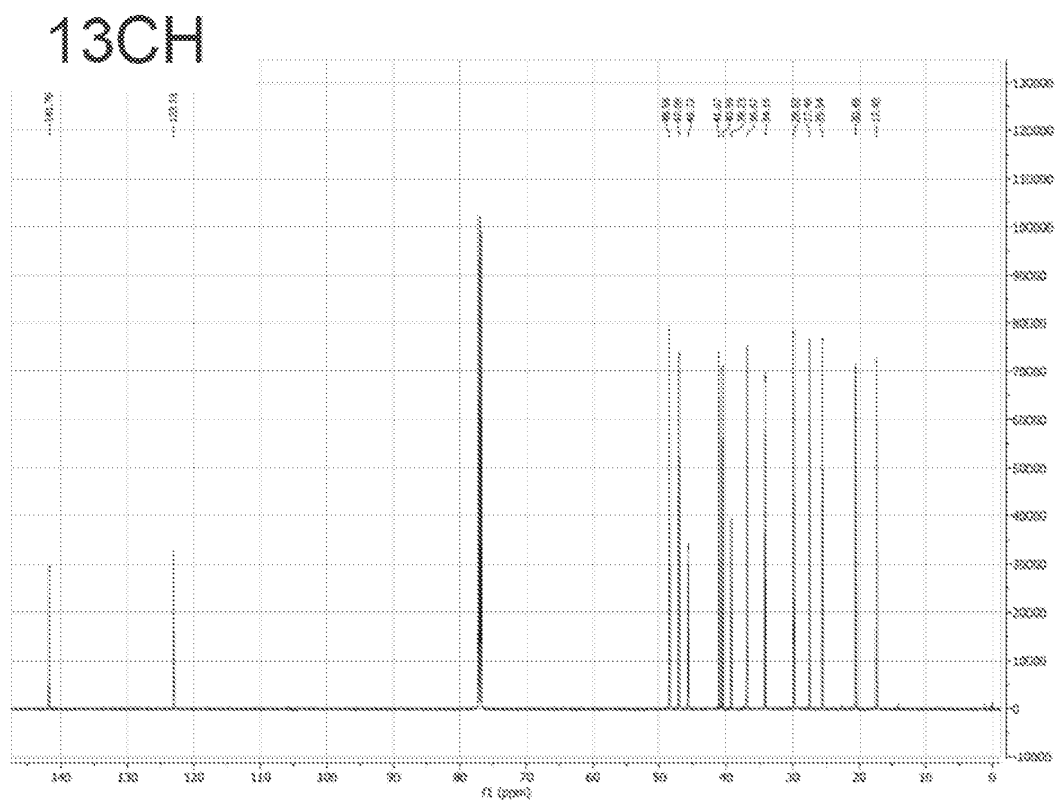
28/ 63

FIG. 9



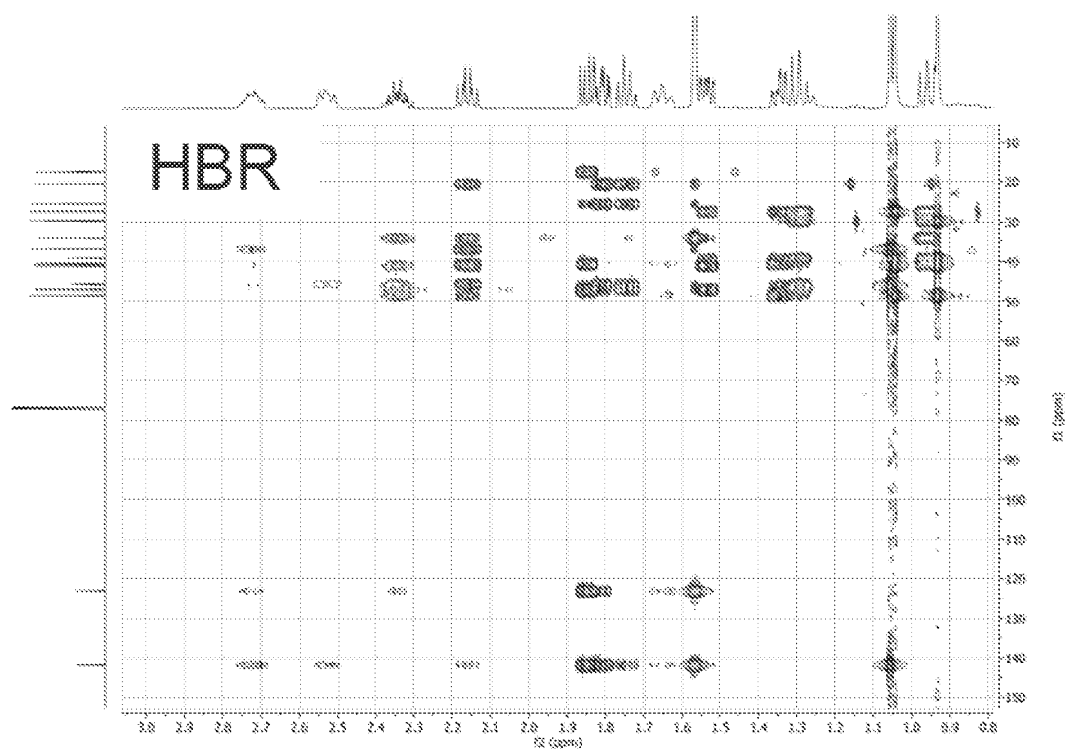
SUBSTITUTE SHEET (RULE 26)

FIG. 9 (cont'd)



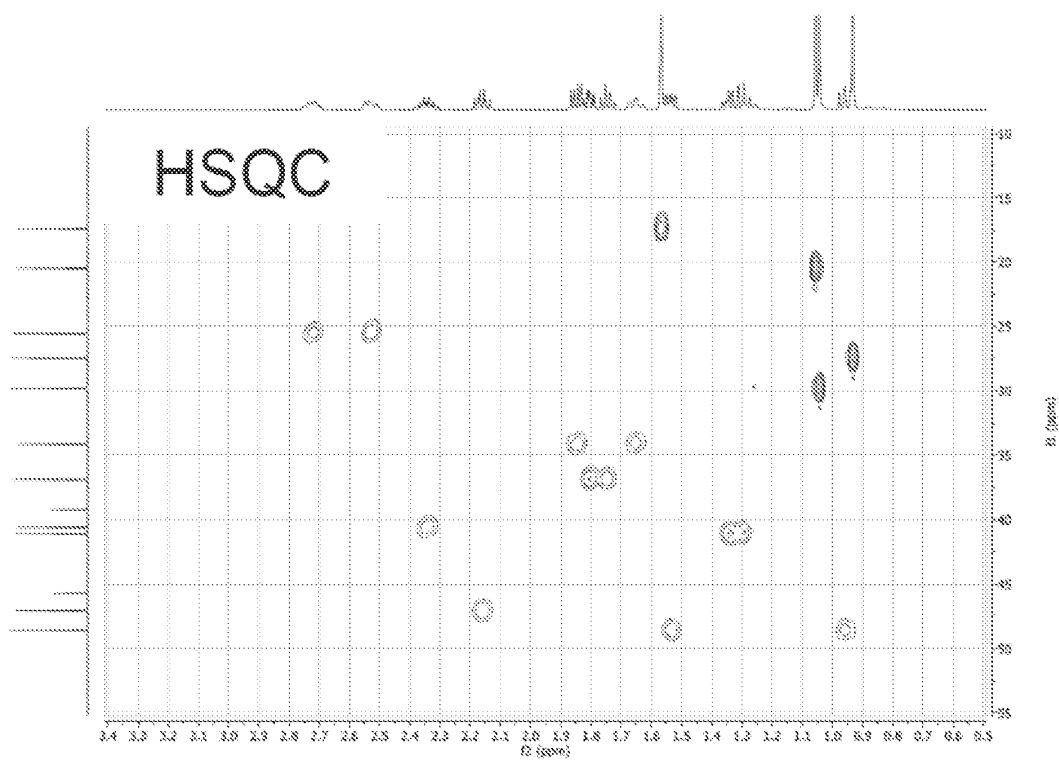
30/ 63

FIG 9 (cont'd)



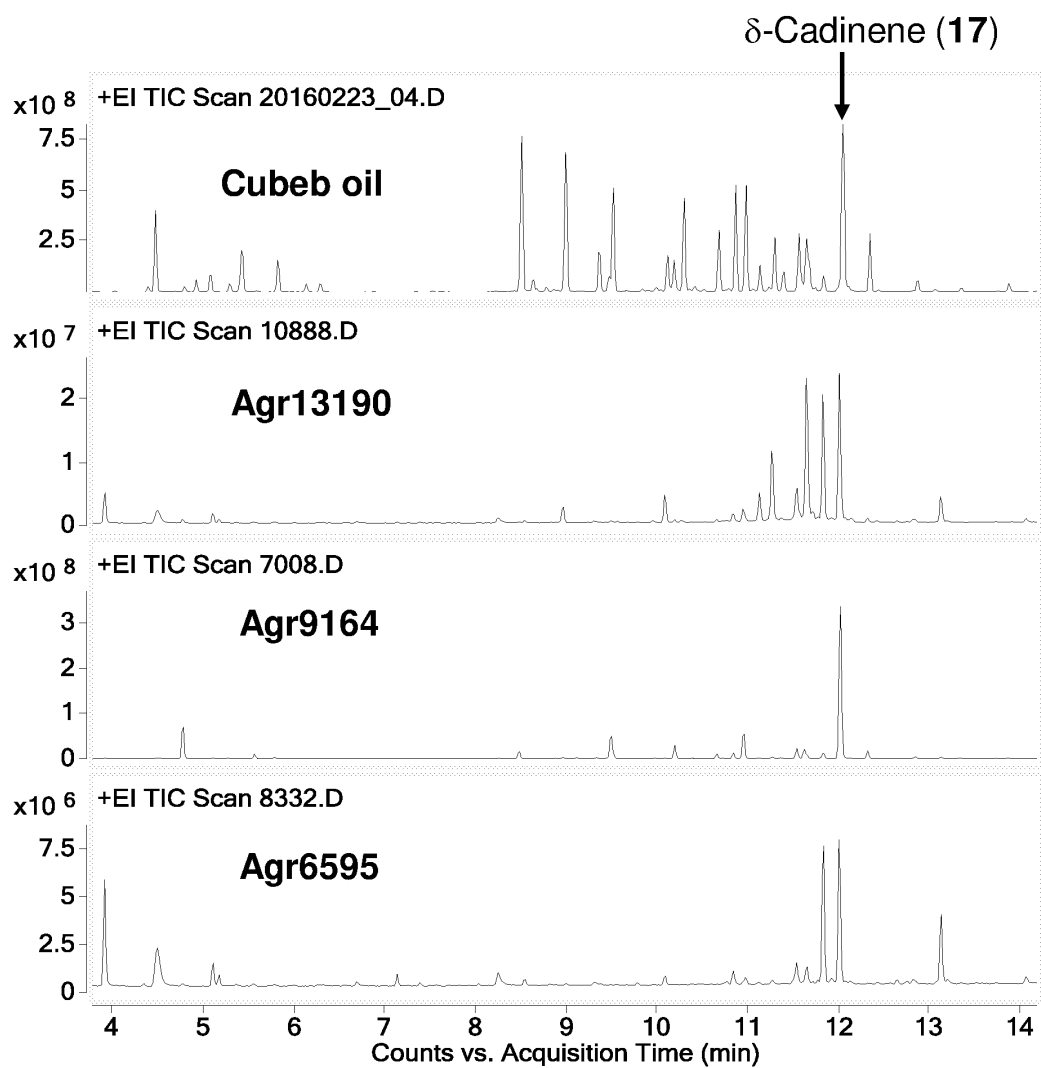
SUBSTITUTE SHEET (RULE 26)

FIG 9 (cont'd)



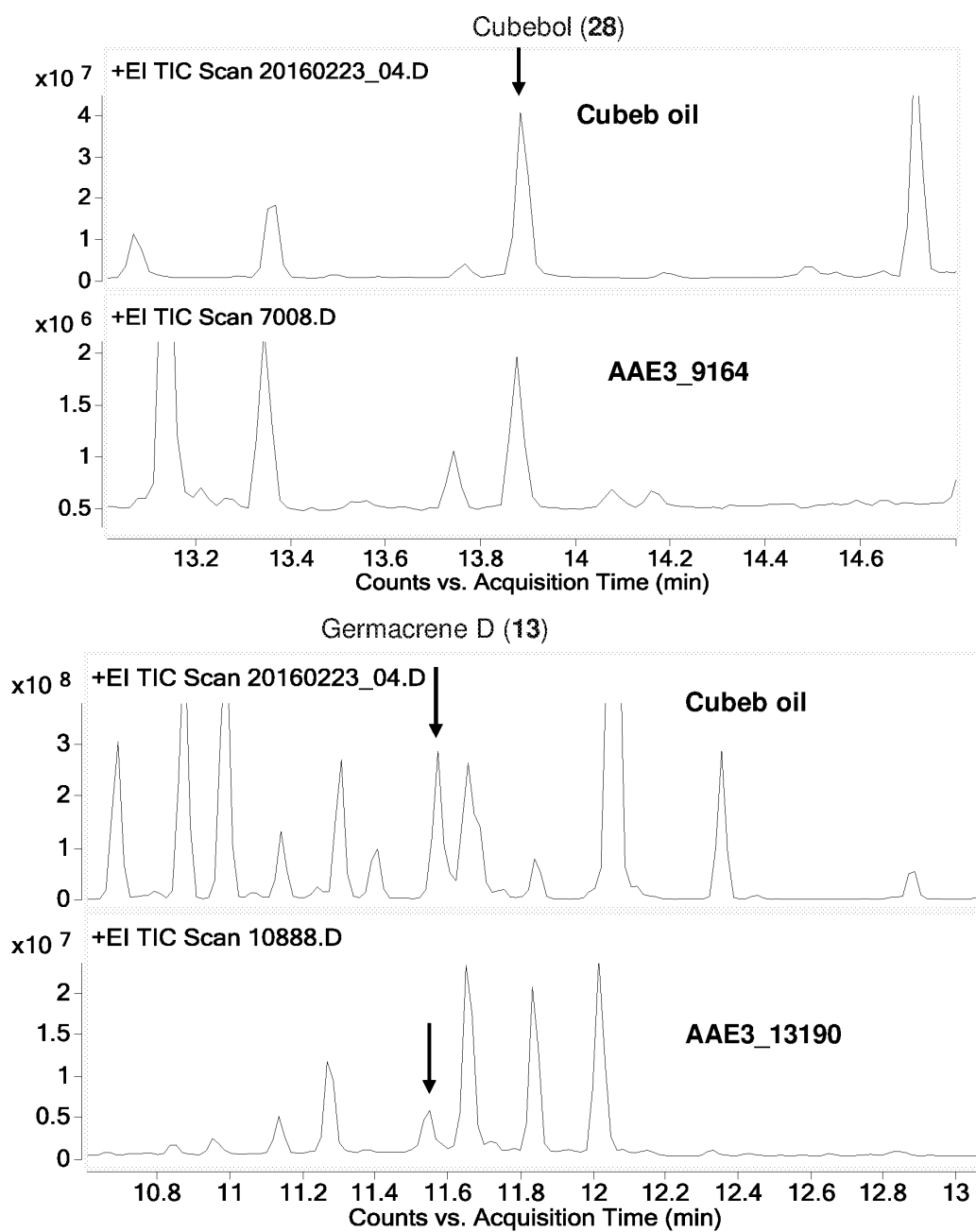
32/ 63

FIG. 10



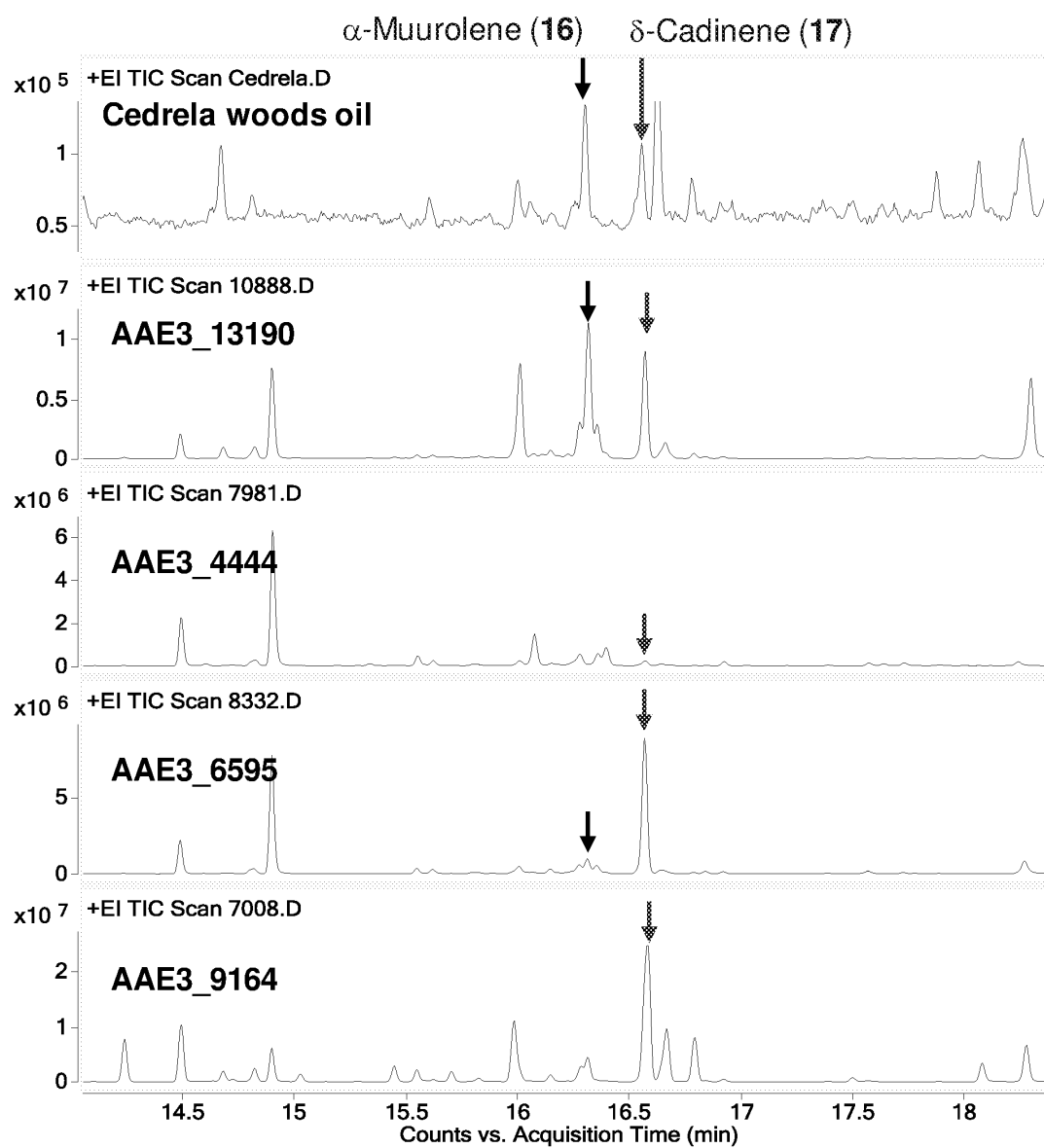
33/ 63

FIG. 10 (cont'd)



34/ 63

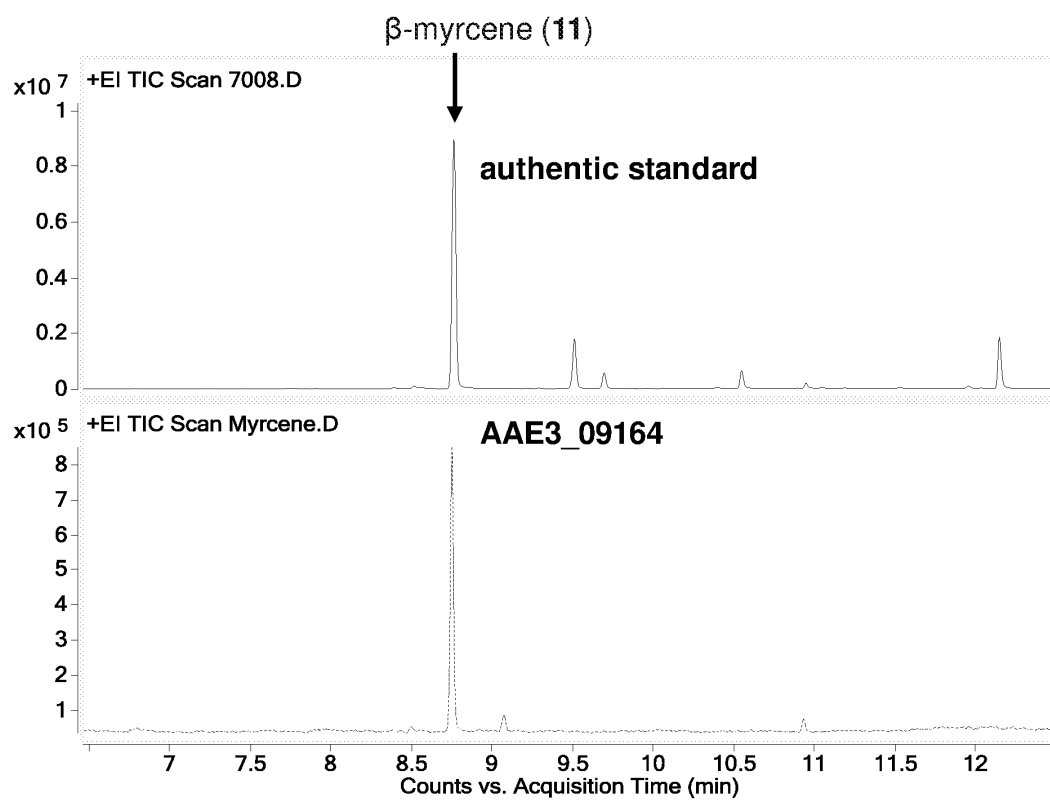
FIG. 11



SUBSTITUTE SHEET (RULE 26)

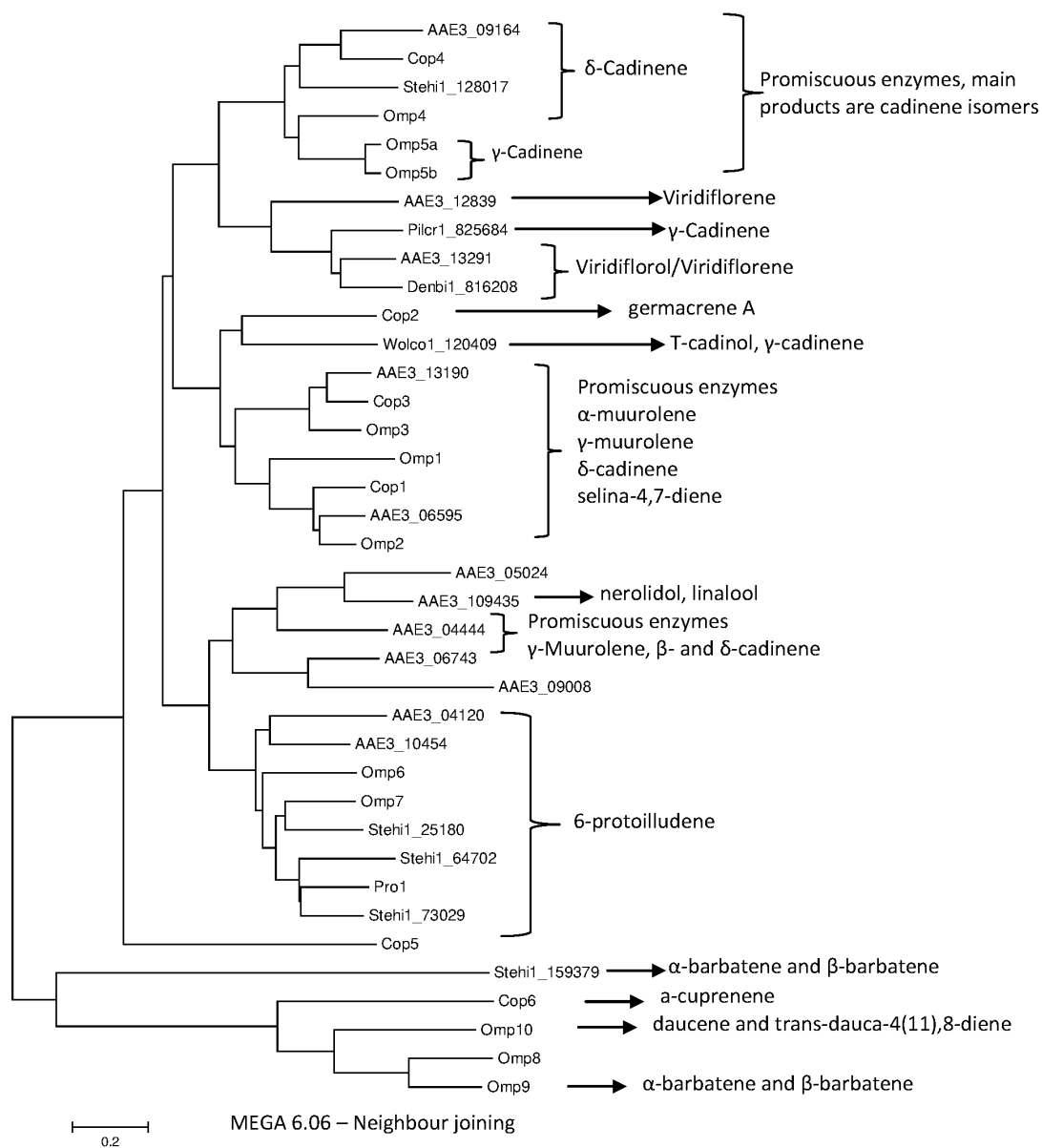
35/ 63

FIG. 12



36/ 63

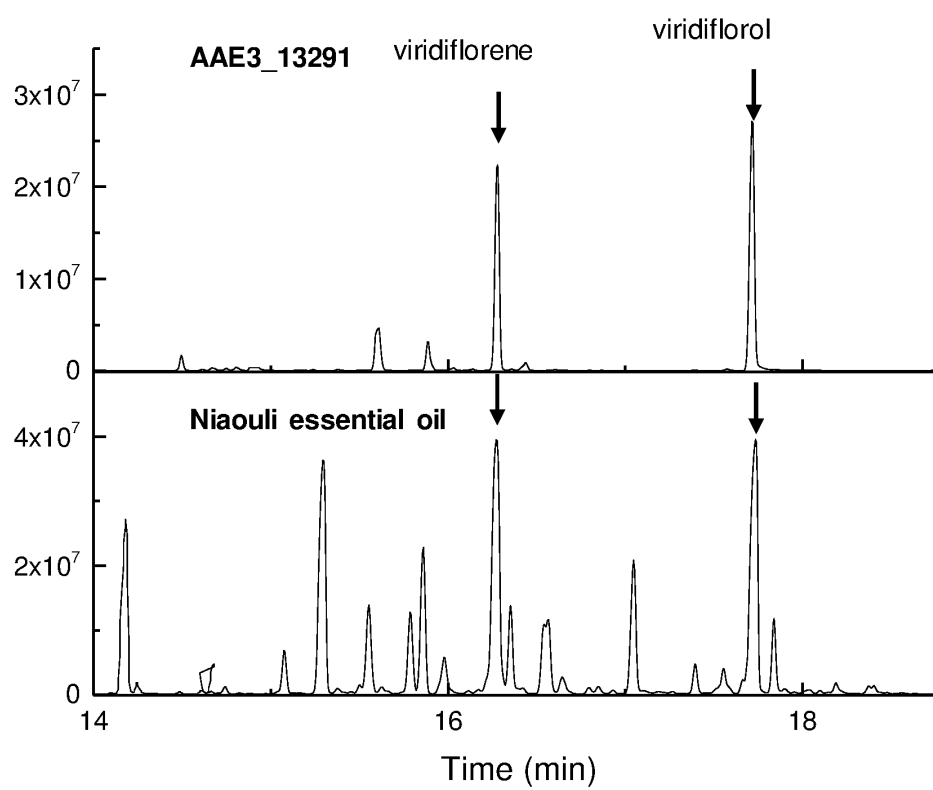
FIG. 13



37/ 63

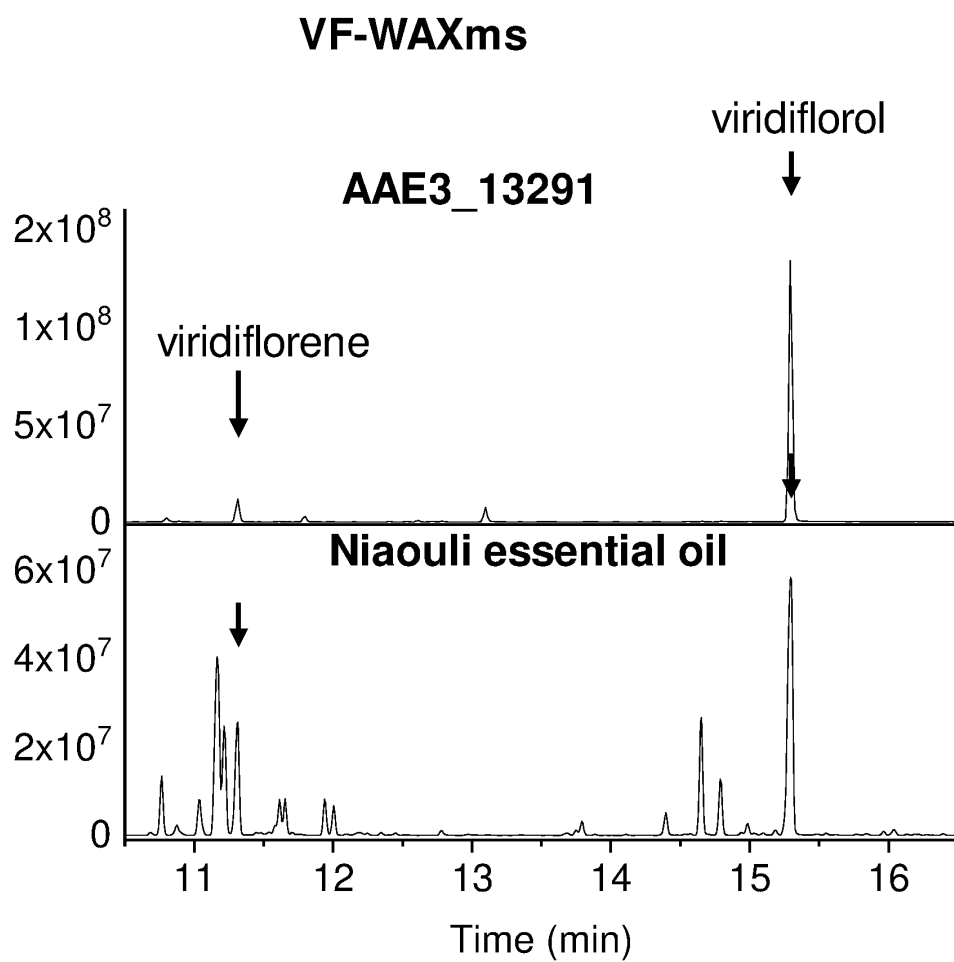
FIG. 14

DB-5ms



38/ 63

FIG. 14 (cont'd)



39/ 63

FIG. 15

SEQ ID NO: 75 TFS31	1	MAPAAALMSKQGESEIVRP	60
SEQ ID NO: 34 AAE3_12839	1	-----MWDGVLSHSLAAQ-----TLTS-----	23
		* * * * *	
SEQ ID NO: 75 TFS31	61	LMCKTLAEKRLNLDIVERLGI	120
SEQ ID NO: 34 AAE3_12839	24	-----LTS-----	39

SEQ ID NO: 75 TFS31	121	ILRQHGYIISPRIFERFQDANGKPKESLCDDIRGILNLYEASHVRTHGEDTLEEA	180
SEQ ID NO: 34 AAE3_12839	40	-----PAPVRL-----	46

SEQ ID NO: 75 TFS31	181	AHLESAA	240
SEQ ID NO: 34 AAE3_12839	47	-----LTS-----	98
		* * * * *	
SEQ ID NO: 75 TFS31	241	-----M-----SEVSRKWDIDVTTPYAN-----DAVGYWAGVYAF	293
SEQ ID NO: 34 AAE3_12839	99	-----LTS-----	158
		* * * * *	
SEQ ID NO: 75 TFS31	294	RVNLAKTIAMISIVDDTFDAYGVKLELVYTDAL	345
SEQ ID NO: 34 AAE3_12839	159	SSEC-----R-----	191
		* * * * *	
SEQ ID NO: 75 TFS31	346	-----LLDLYDY-----SDVGYWAGVYAF	388
SEQ ID NO: 34 AAE3_12839	192	-----CAV-----	246
		* * * * *	
SEQ ID NO: 75 TFS31	389	WIL	448
SEQ ID NO: 34 AAE3_12839	247	VQ-----	260
		* * * * *	
SEQ ID NO: 75 TFS31	449	VIGL	496
SEQ ID NO: 34 AAE3_12839	261	-----LTS-----	320
		* * * * *	
SEQ ID NO: 75 TFS31	497	DYNEGILP	549
SEQ ID NO: 34 AAE3_12839	321	RLA-----	377
		* * * * *	
SEQ ID NO: 75 TFS31	550	VDSI	555
SEQ ID NO: 34 AAE3_12839	378	TPENGYNALKA	389
		* * * * *	

Identical positions	64
Identity	10.458%
Similar positions	145
Program	CLUSTALO

Identical positions	74
Identity	11.367%
Similar positions	126
Program	CLUSTALO

FIG. 17

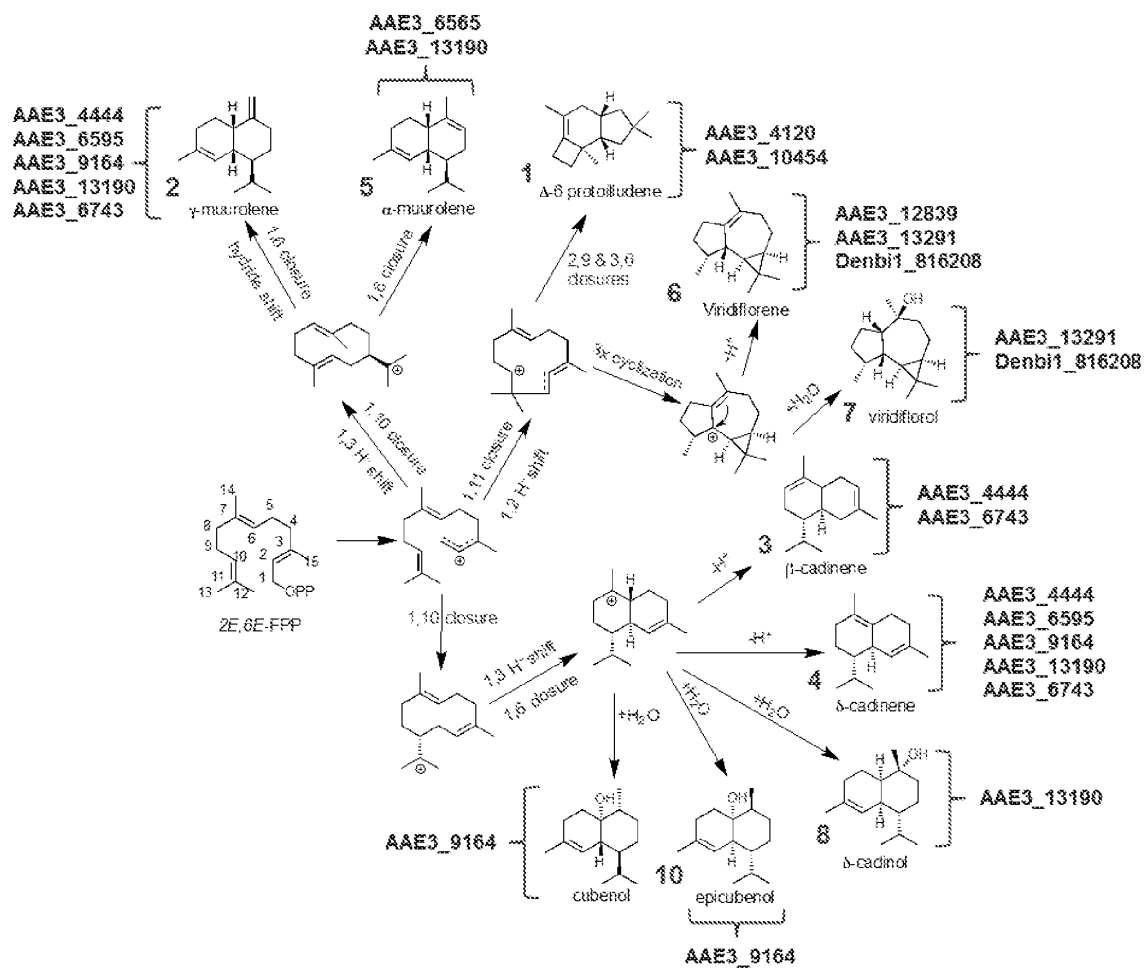
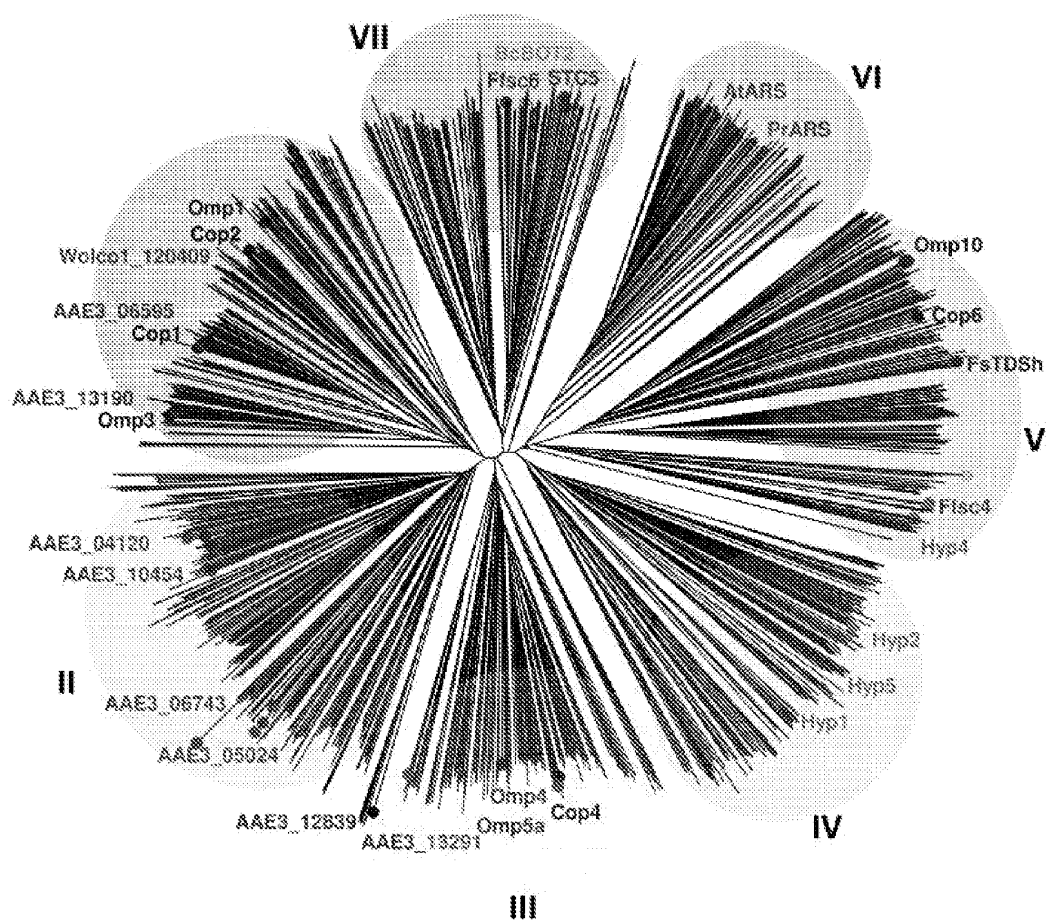


FIG. 18



43/ 63

FIG. 19

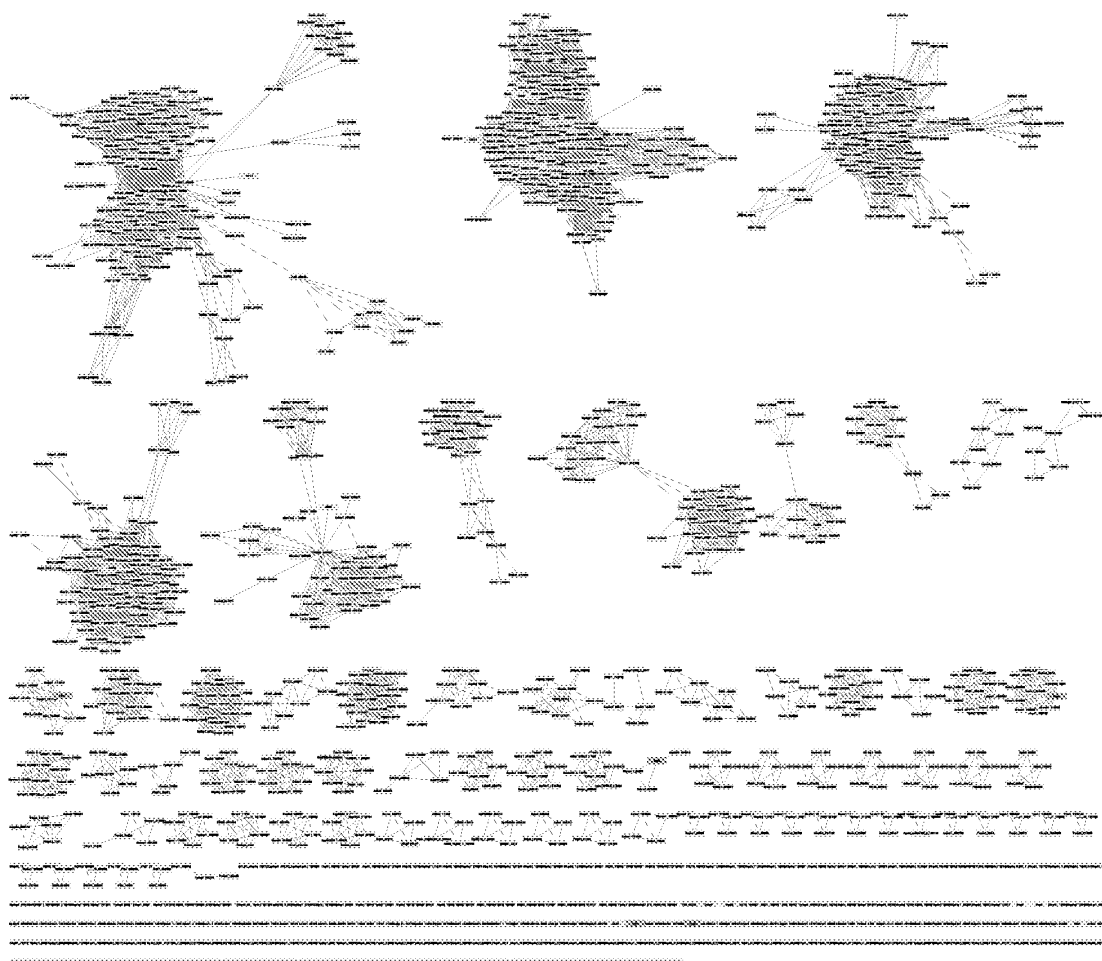
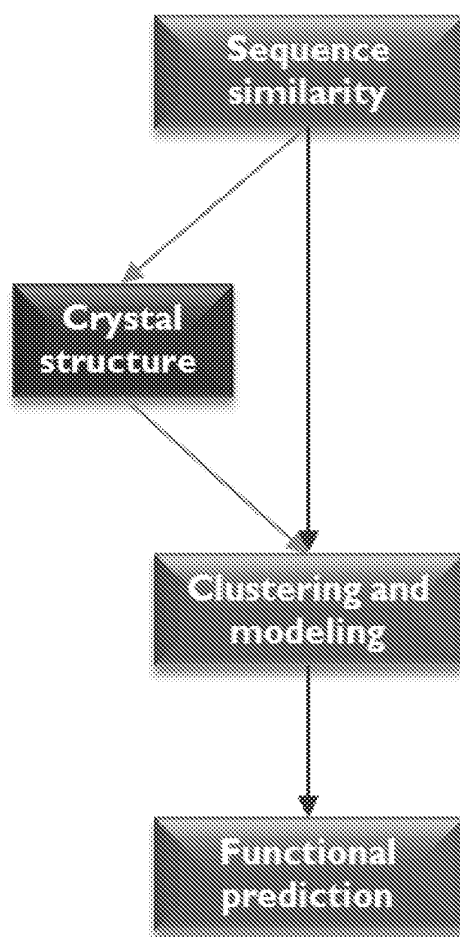


FIG. 19 (cont'd)



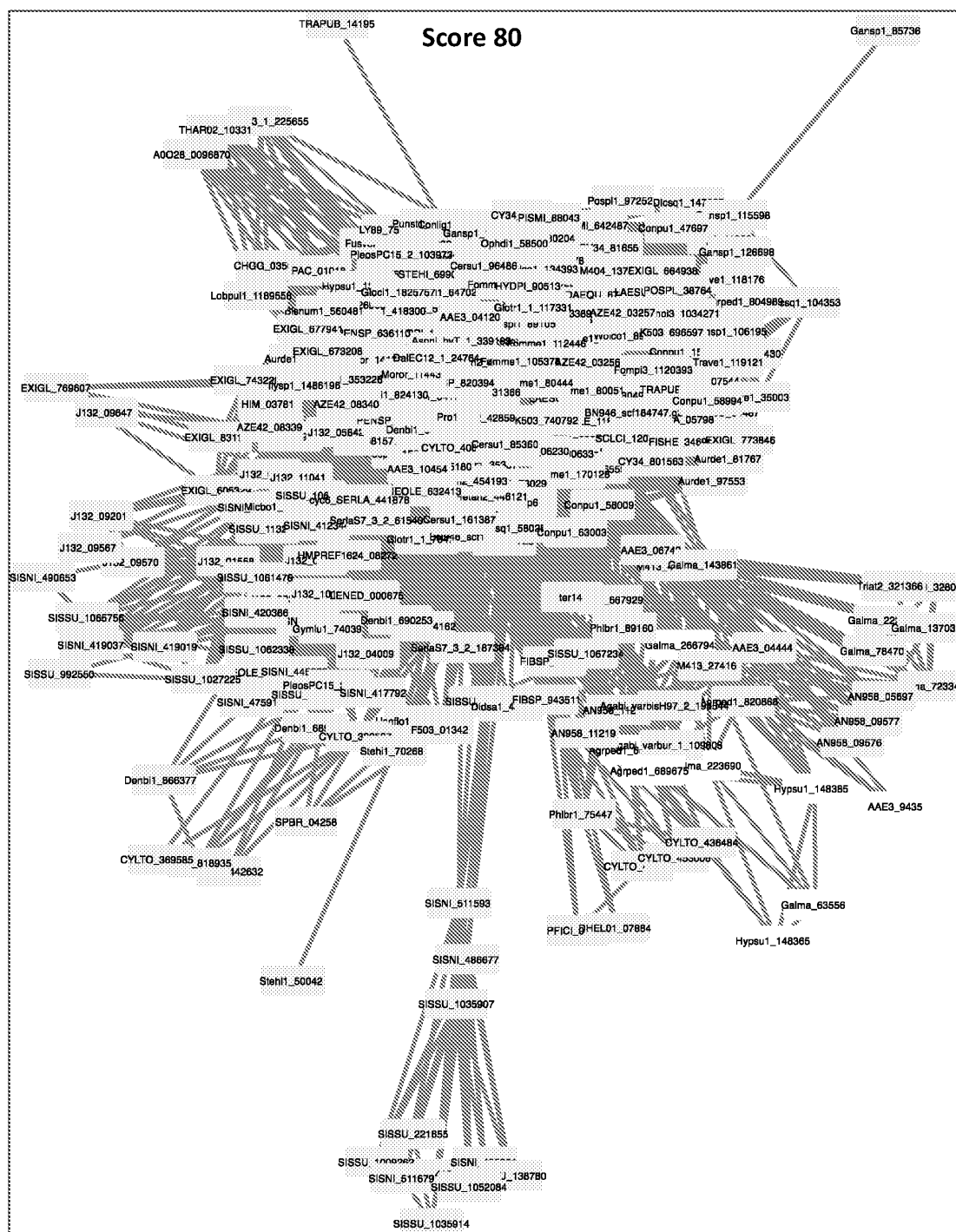
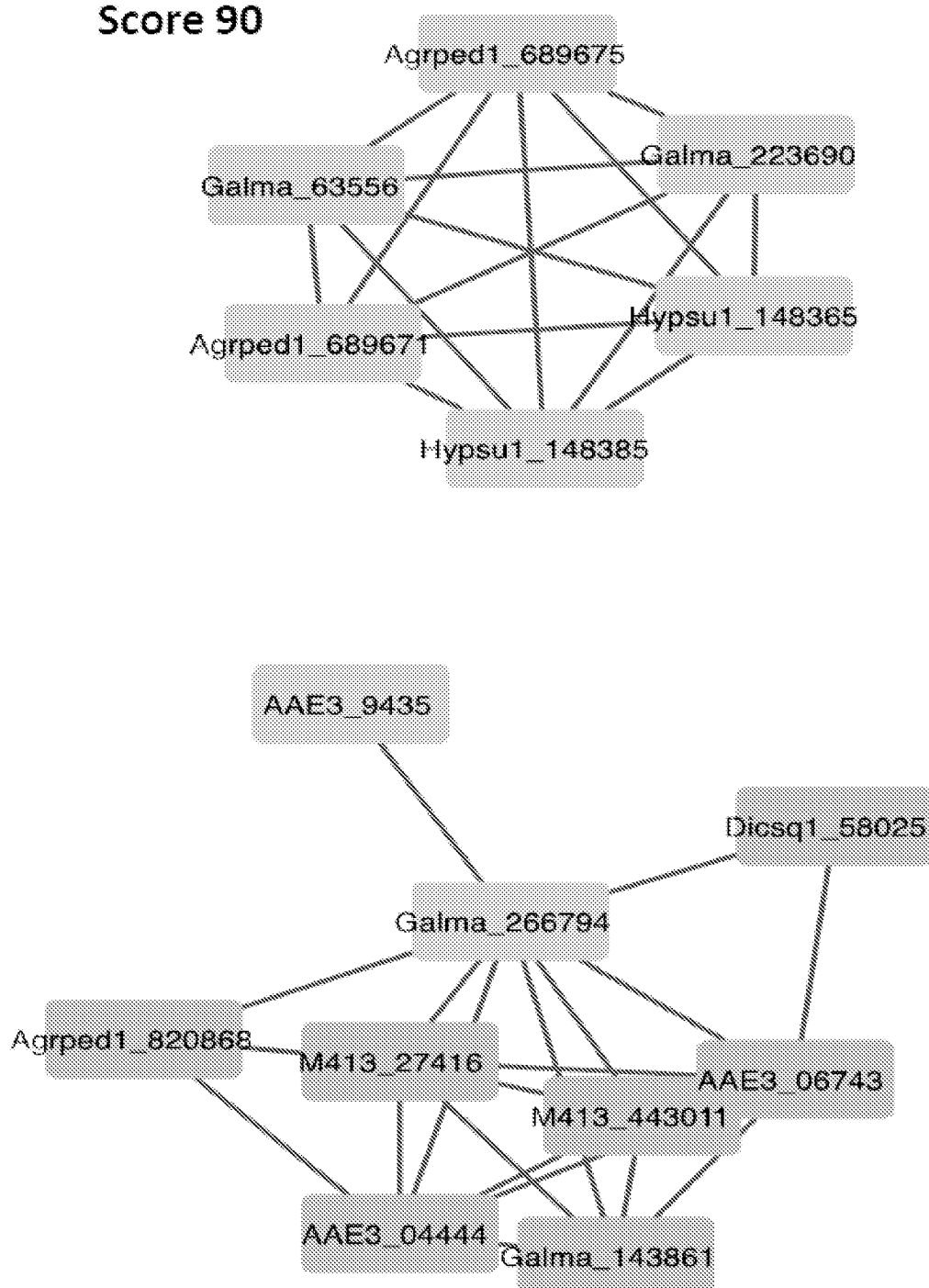


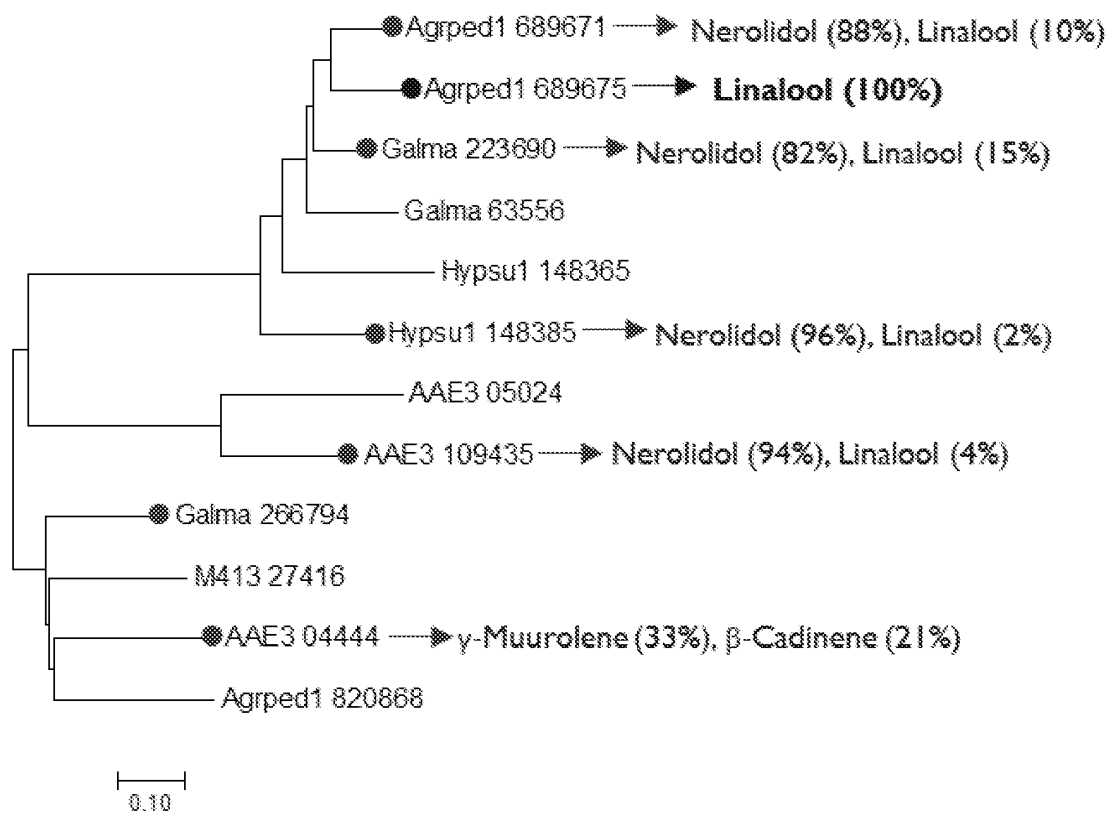
FIG. 20 (cont'd)

Score 90



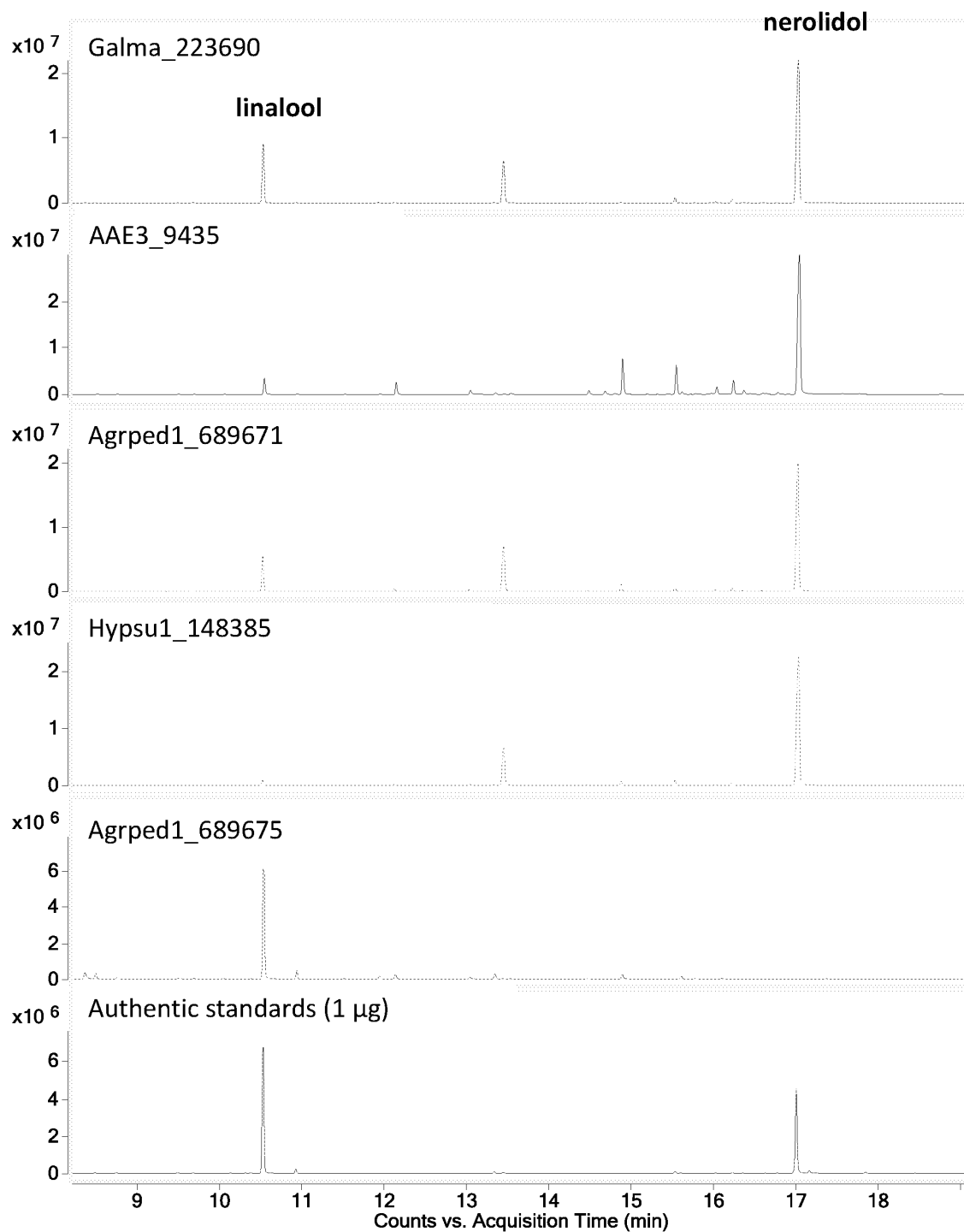
47/ 63

FIG. 21A



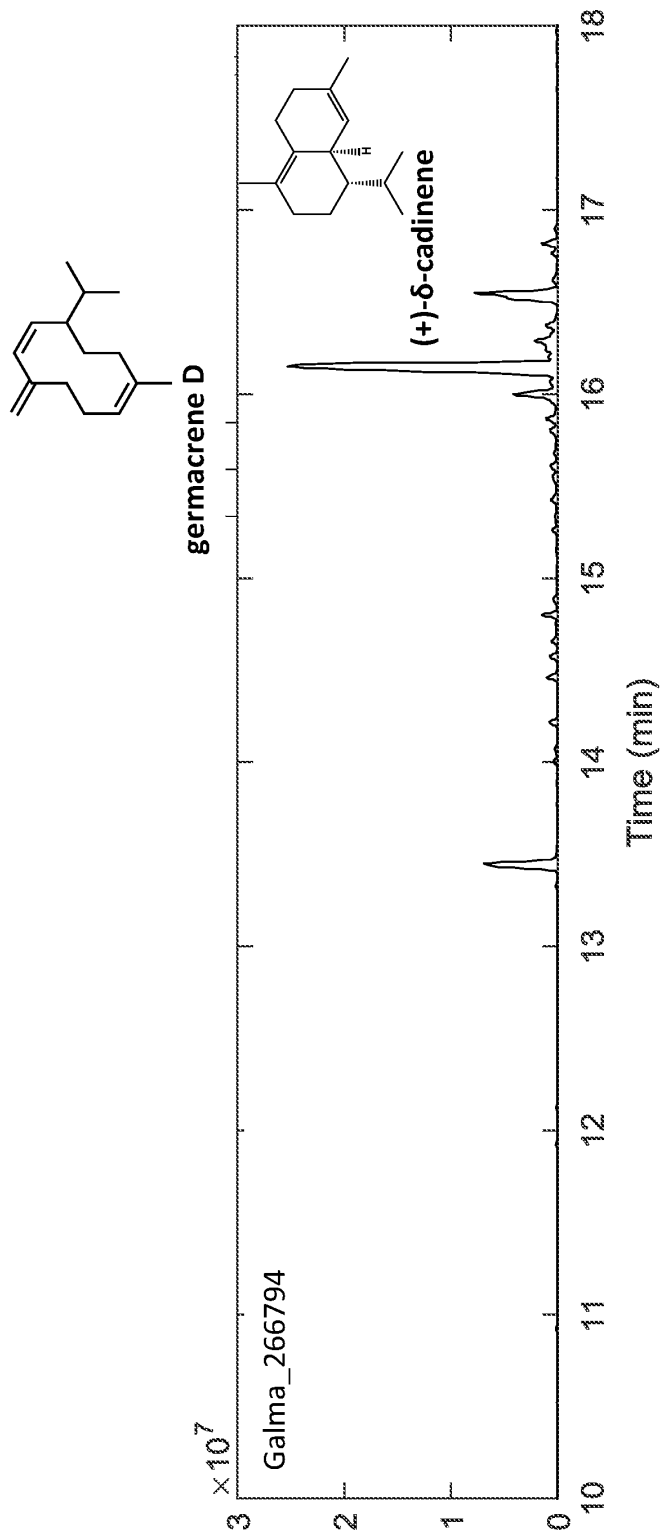
48/ 63

FIG. 21B



SUBSTITUTE SHEET (RULE 26)

FIG. 21C



SUBSTITUTE SHEET (RULE 26)

51/ 63

FIG. 22 (cont'd)

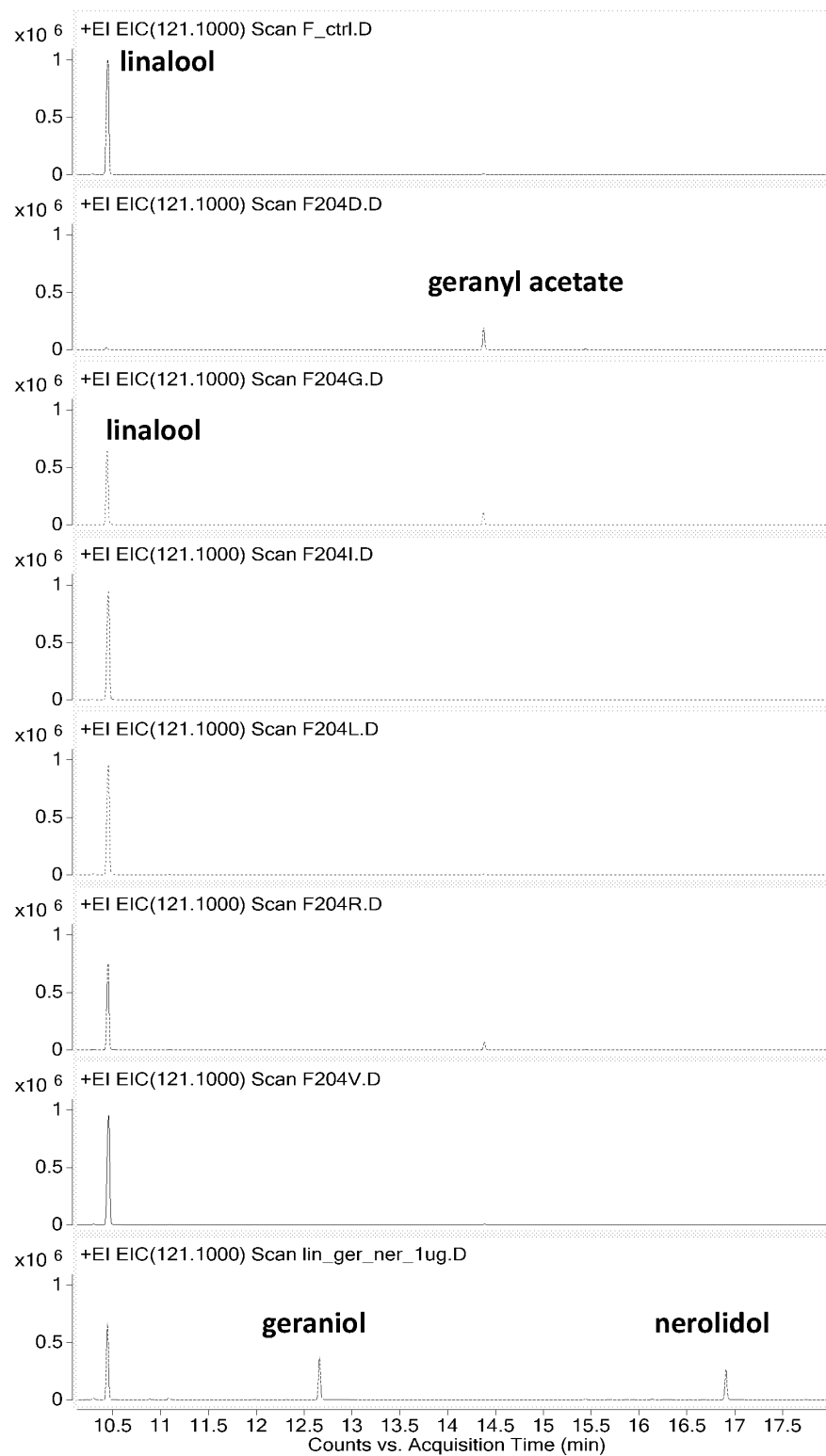
Identical positions	84
Identity	21.429%
Similar positions	107
Program	CLUSTALO

Agrpel1_689675

- F204A
- F204V
- F204I
- F204D
- F204E
- F204H

52/ 63

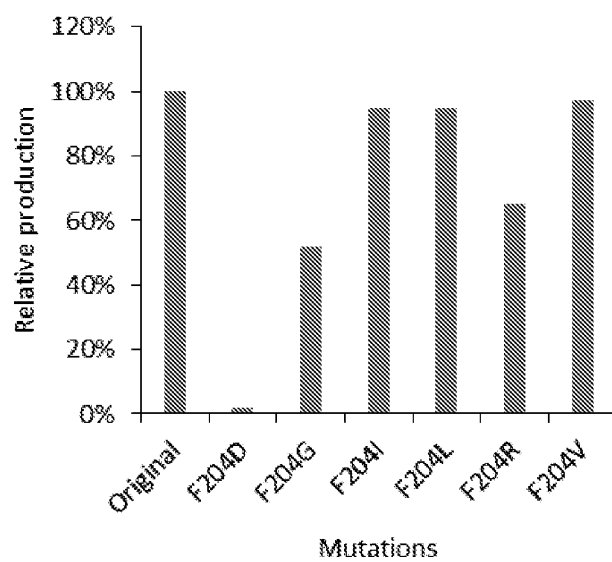
FIG. 23A



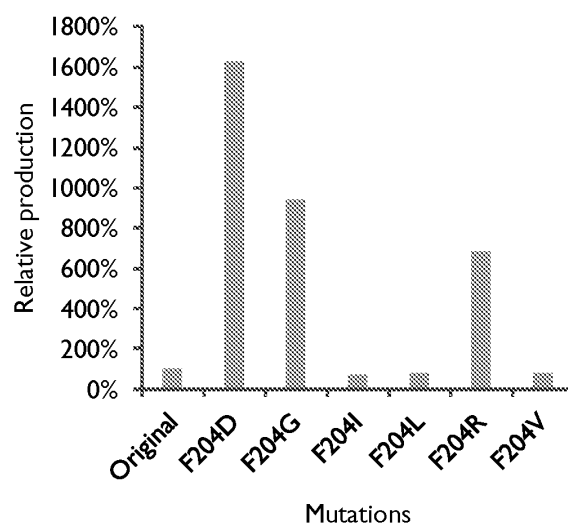
SUBSTITUTE SHEET (RULE 26)

53/ 63

FIG. 23B



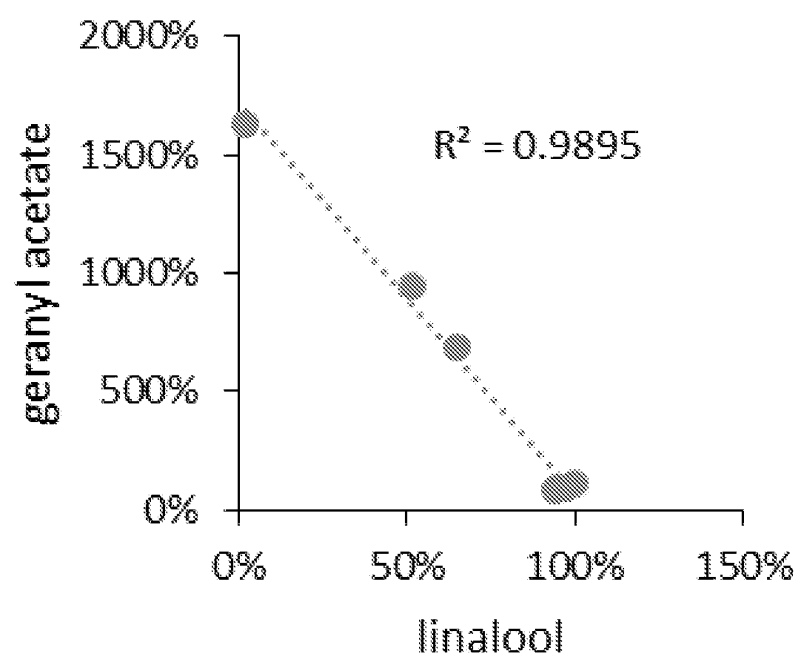
■ linalool



■ geranyl acetate

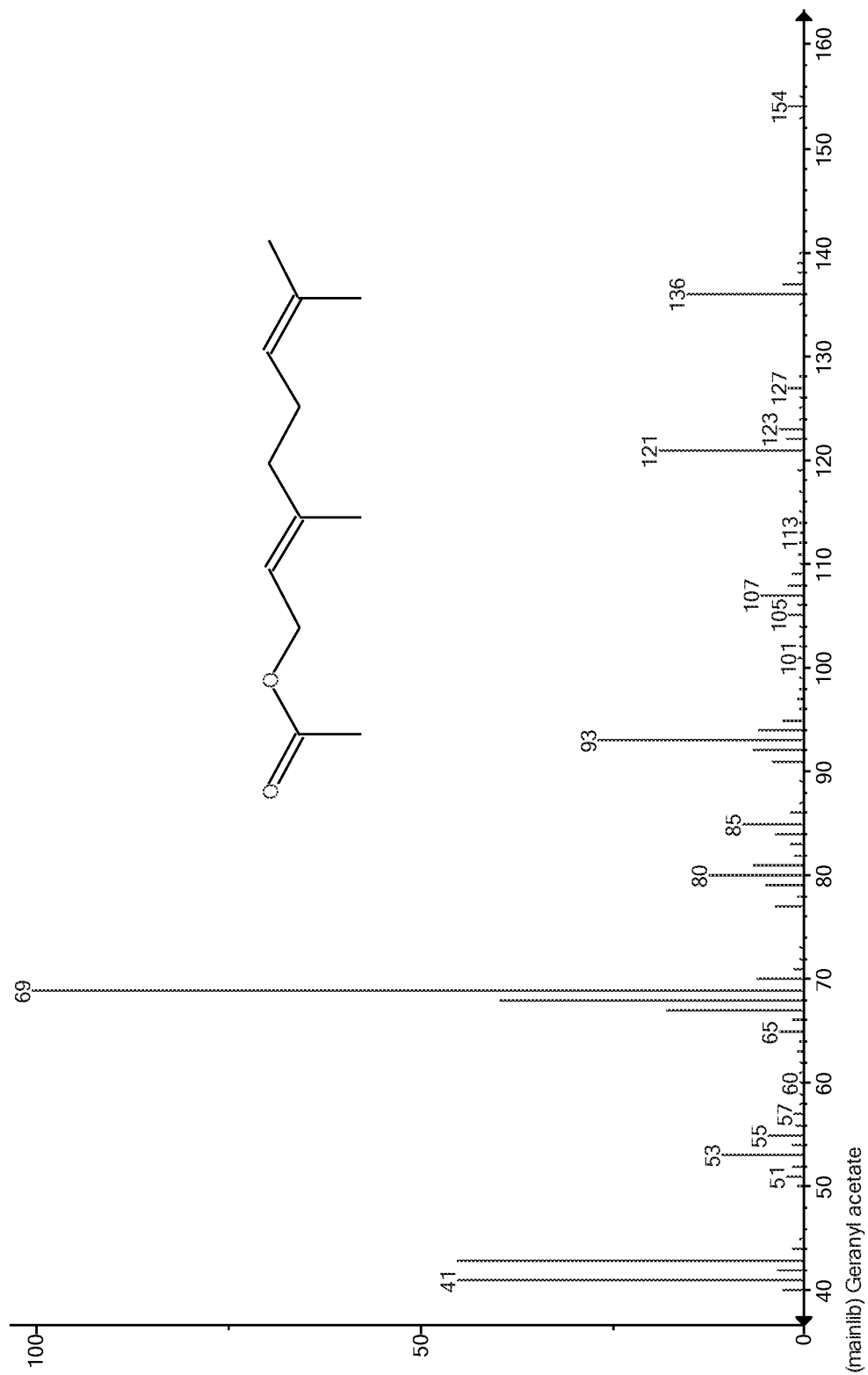
54/ 63

FIG. 23C



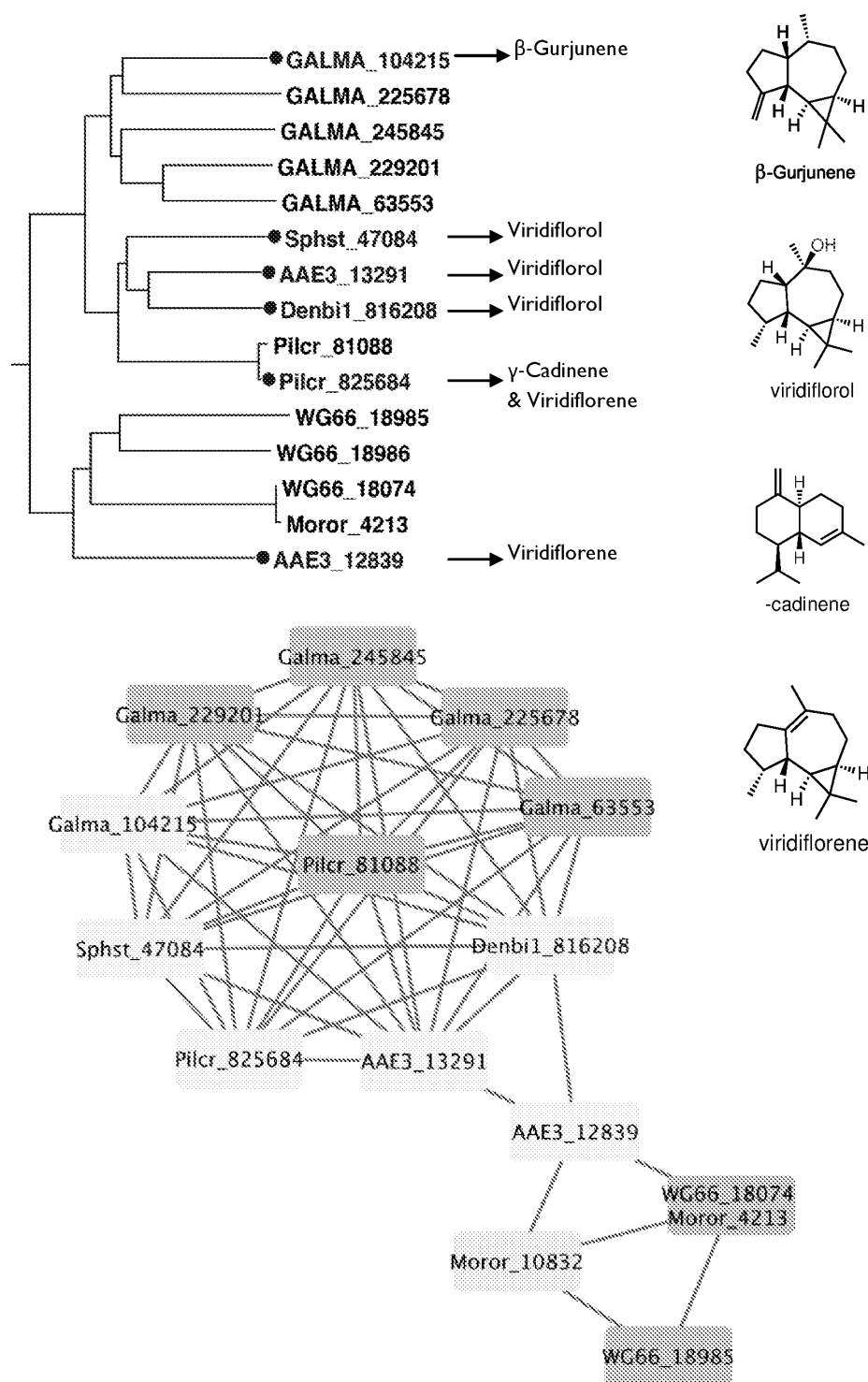
55/ 63

FIG. 23D



56/ 63

FIG. 24



57/ 63

FIG. 24 (cont'd)

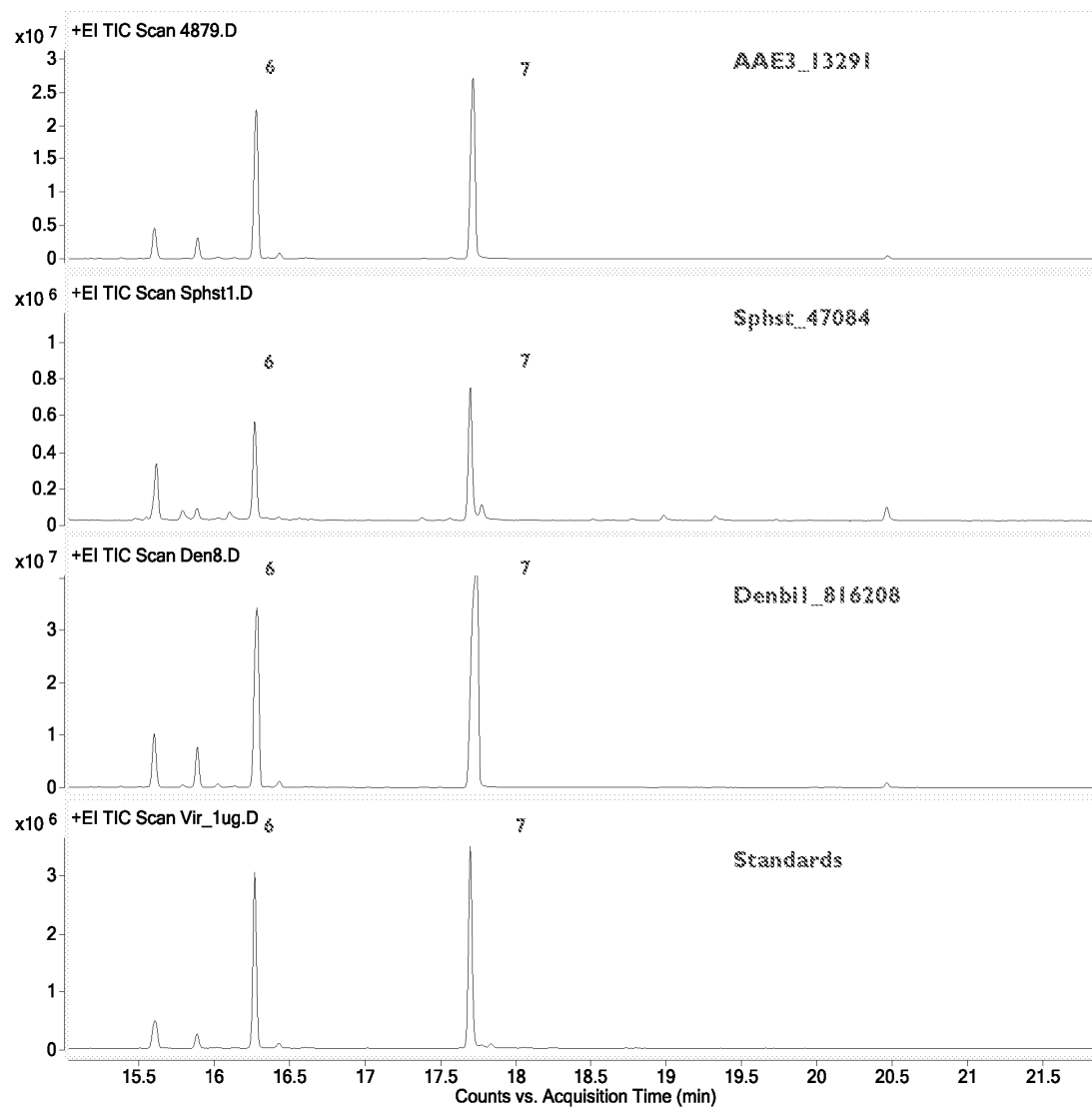


FIG. 24 (cont'd)

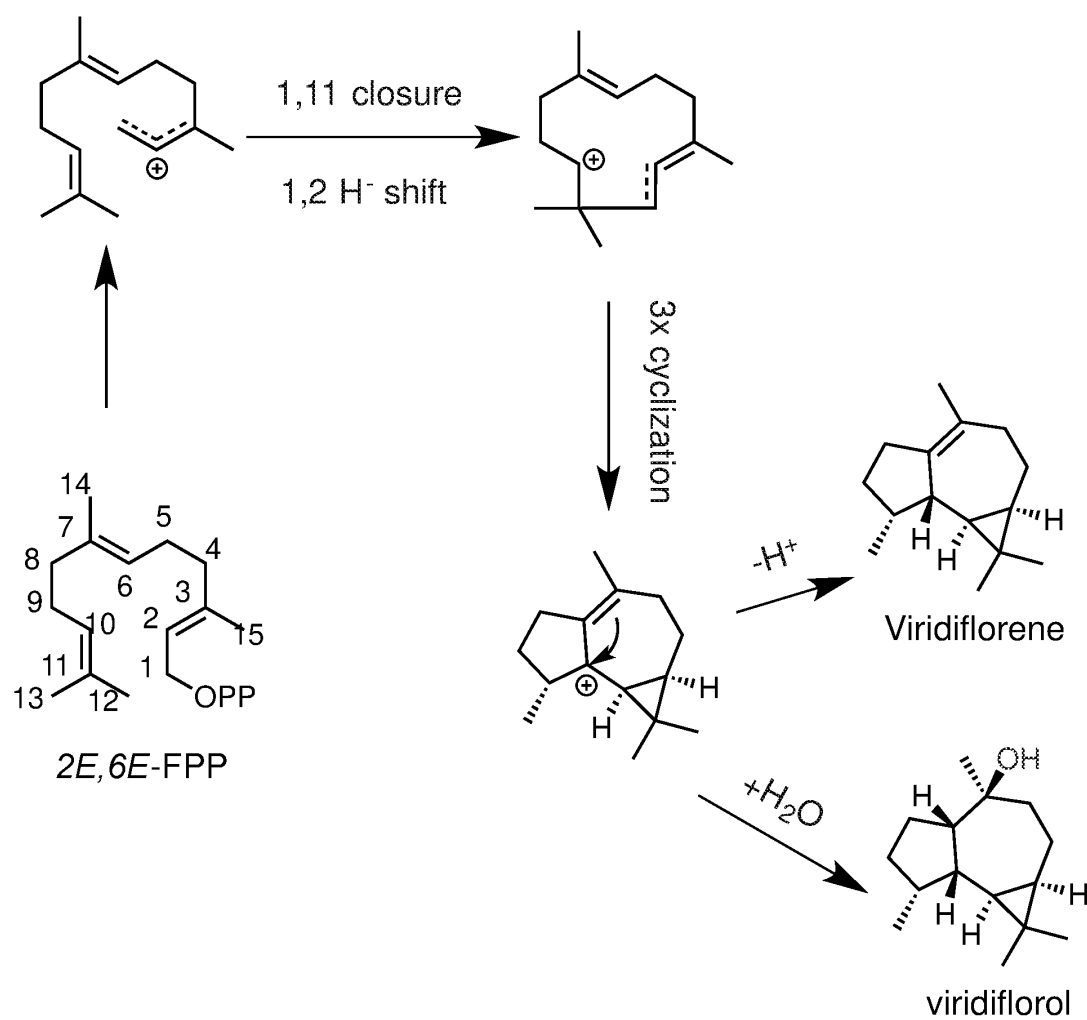
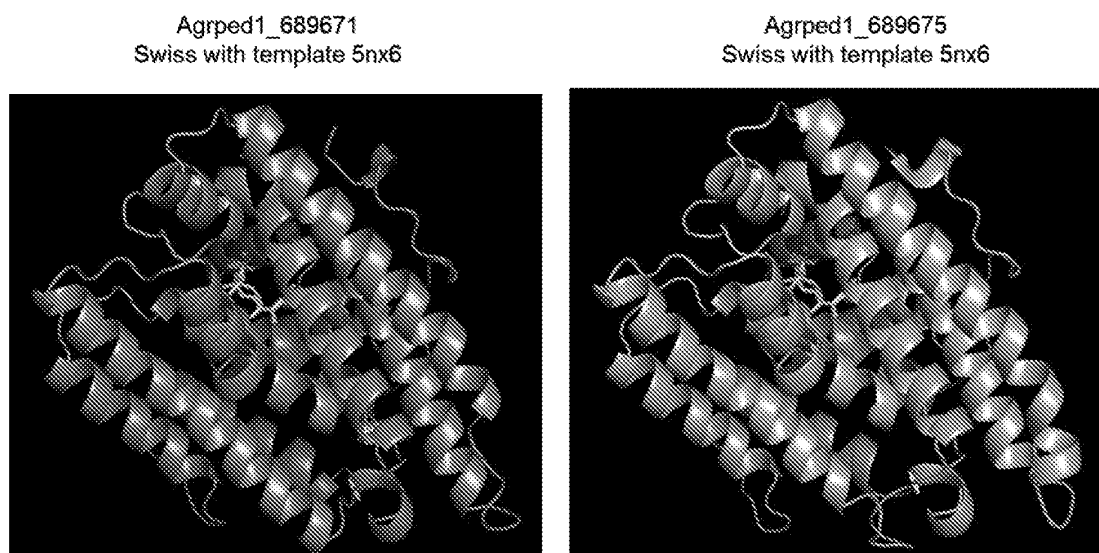


FIG. 25

[illegible]

60/ 63

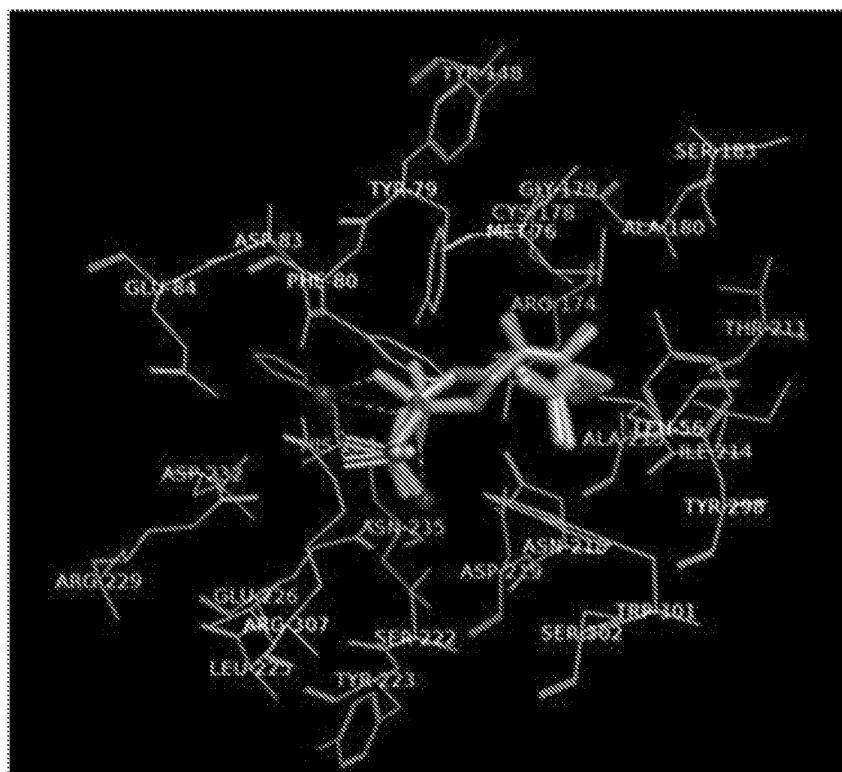
FIG. 26



61/ 63

FIG. 26 (cont'd)

Agrped1_689671
Swiss with template 5nx6



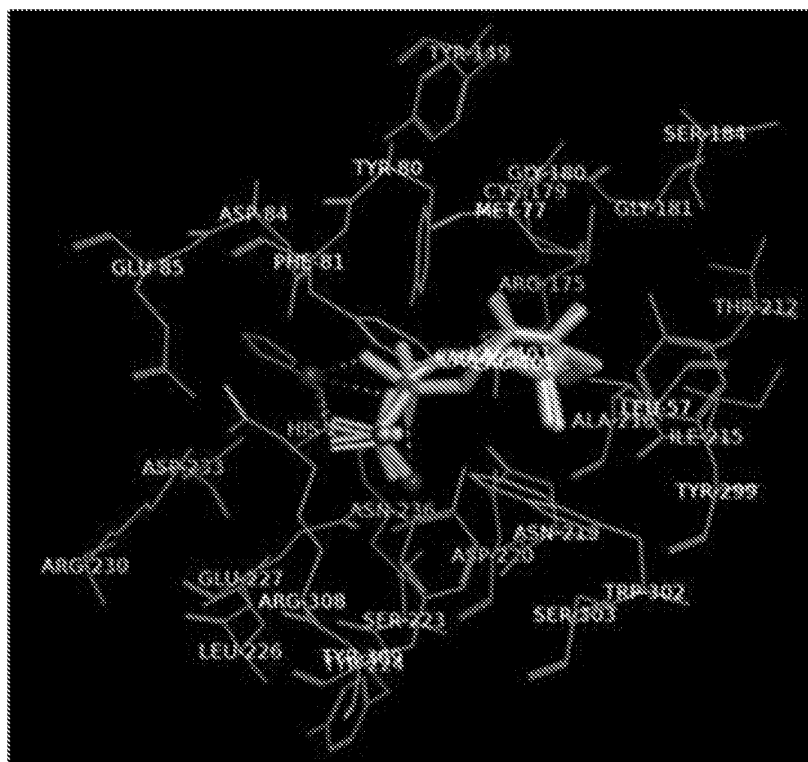
>Agrped1_689671 (Agr3)
 MSQFIIPDLLSTWPWQRVSNPMWREIDEEANAWVQSFDLFEPSQFEKFKM
 CDFNLLGSMIGTVETKDHLRISCDLMNFYFAFDEYTDMAKDEARKIARD
 VMDAFRNTEKPAHNQITEMARQFFKRTIDTVGKDLPGVERFIADFAYTH
 SVIQEADDRATGHIRSVNDYFTLRDTCGAKPSFSFFGLGLNIPDEVFHH
 PVVISMIEGATDLIAVTNDMHSYNLEHSRGLDGHNVITAIMHEYQLDLQG
 ALYWLSGYATHITIANFLSNRRNLPSNGPAVDKAVEEFFDRVGRCVRGYDA
 WSYETKRYYGKNGLQVQKTRRITLRPRDASYITKEQLQVSIKA
 *Red labelled sites are the residues within 6A of
 ligand.

(SEQ ID NO: 2)

62/ 63

FIG. 26 (cont'd)

Agrped1_689675
Swiss with template 5nx6



>Agrped1_689675 (Agr1)
MSSQIYIPDLLITWPWQKVRNPLLQEVQDEANWVKSFVLFEPEQFEKFK
ACDFNLLGALVGPLGTKEELRISCDLMNFYFAFDEYTDLASADEAKVIAR
DVMESFRHTDKPSHNKITEMARQFFERTINTVGNDPTGIEQFIADFDAYT
TSIIQEADDRASGHIRSVEDYFILRRDTCGGKPSFSFFGLGLNIPKEVFA
HPMFISMTESATDLIAITNDMHSYNLEQSRGLDGHNVITAIMHEYKINLQ
GALYWLSGYATKTIAKFISDRKNLPSWGPVVDRAVEQYFDRVGRVGRGYD
AWSYETKRYYGKNGLEIQKTRQITLRPLDPAYVTKEQLQVSMKA*
*Red labelled sites are the residues within 6A of
ligand.

(SEQ ID NO: 3)

63/ 63

FIG. 27

