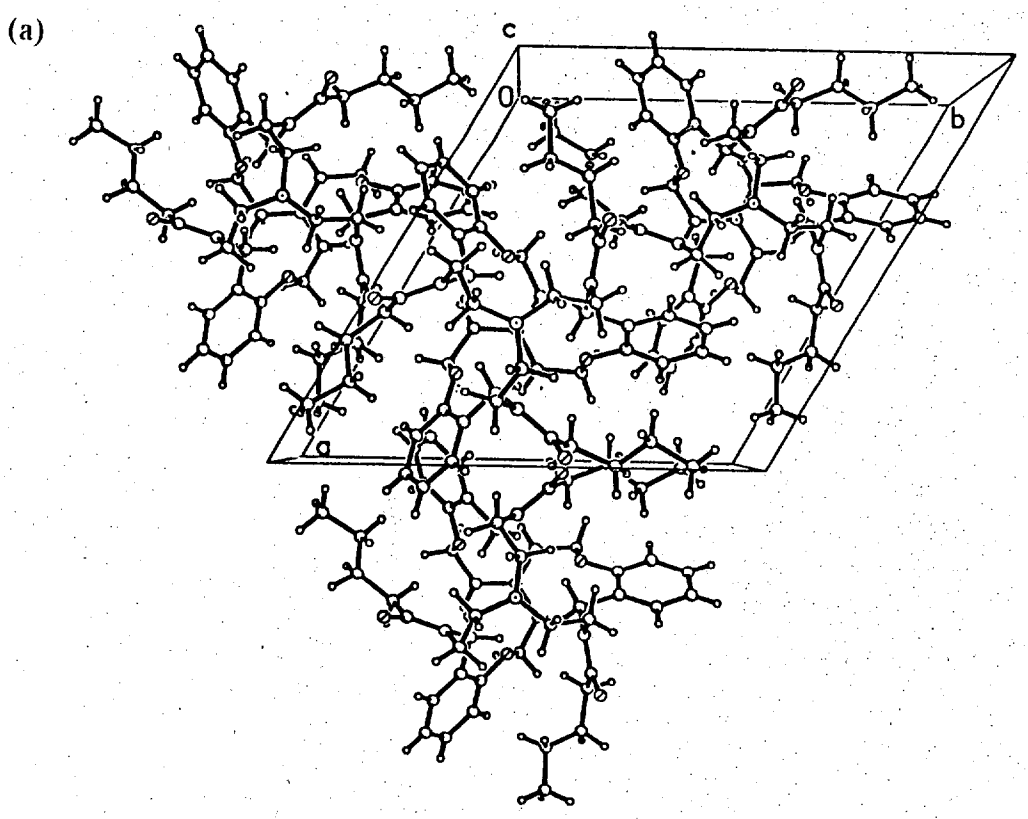
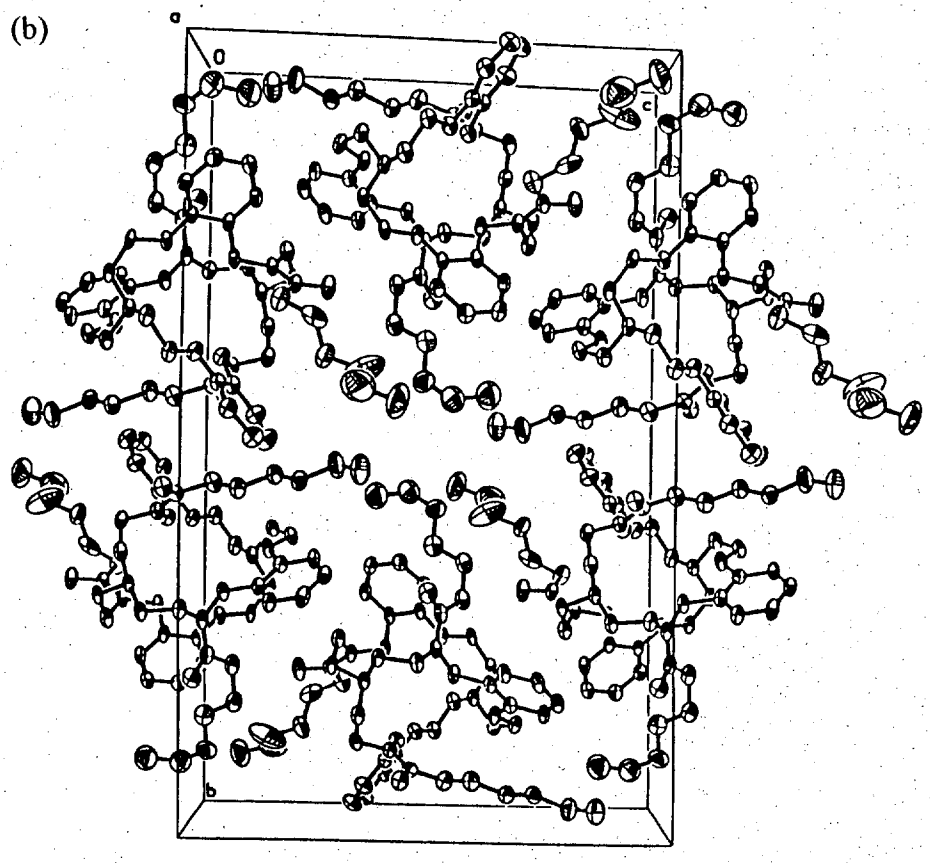
Table 1 Crystal data and structure refinement for $\mathbf{L_6}$ and $\mathbf{L_5}$

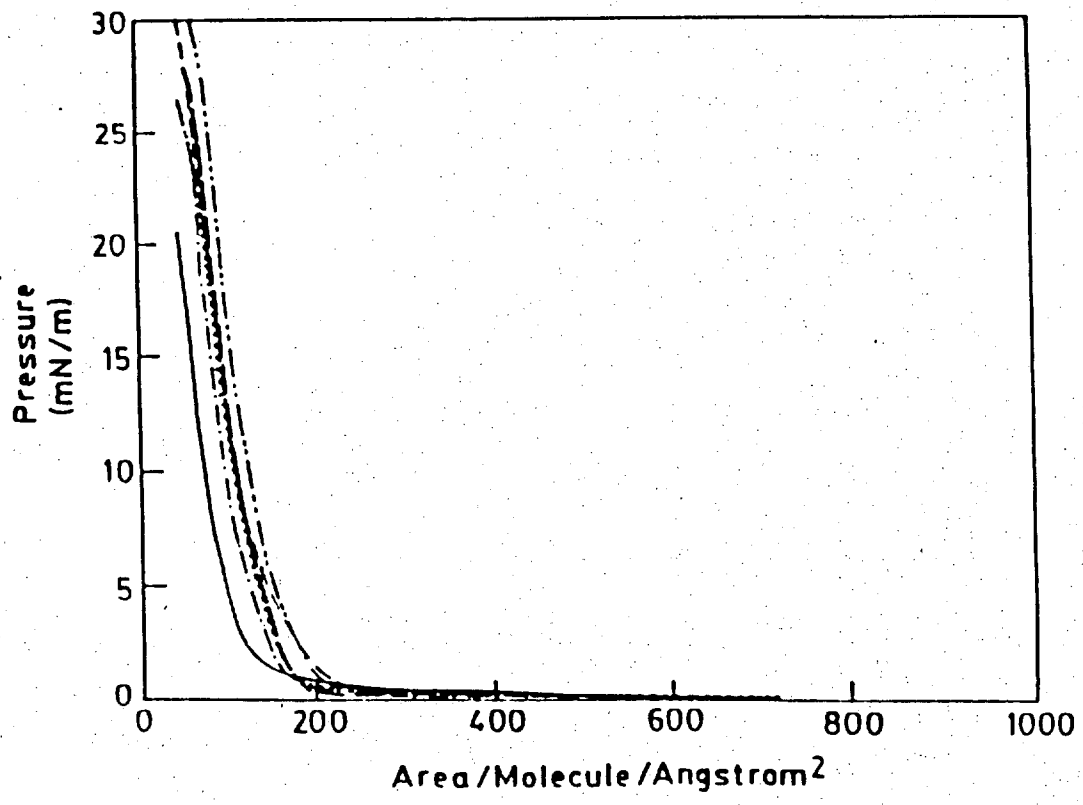
	$\mathbf{L_6}$	$\mathbf{L_5}$
Empirical Formula	$C_{48}H_{69}N_5O_6$	$C_{54}H_{80}N_5O_6$
Formula Weight	811.07	895.23
Crystal system	Trigonal	Monoclinic
Space group	P31c	$P2_1/c$
a/Å	15.118(2)	10.091(3)
b/Å	15.118(2)	29.994(8)
c/Å	11.734(2)	18.174(5)
α/°	90	90
β/°	90	94.404(6)
γ/°	120	90
Volume/Å^3	2322.5(6)	5484(3)
Z	2	4
D_c/ Mg m^3	1.160	1.084
Absorption coefficient (μ)/mm^{-1}	0.066	0.070
Crystal size/mm	0.14 x 0.2 x 0.23	0.01x0.1x0.2
Limiting indices	$-18 \le h \le 18$	$-8 \le h \le 11$
	$-18 \le k \le 18$	$-36 \le k \le 12$
	$-14 \le l \le 4$	$-23 \le l \le 10$
Reflections collected	13592	15444
R	0.033	0.1048
R'	0.062	0.2660
Goodness of fit on F^2	0.813	0.925
Largest and mean shift/e.s.d.	0.001, 0.0006	

Details in common: θ-2θ scans, range 0.80 + 0.35 tan θ; 2θ range 2-50°;
$R = \Sigma \, ||F_O| - |F_C|| / \Sigma |F_O|$. $R' = [\, |\Sigma\omega(|F_O| - |F_C|)^2 / \Sigma\omega(F_O)^2]^{1/2}$, $\omega = 1/\sigma(F)$.



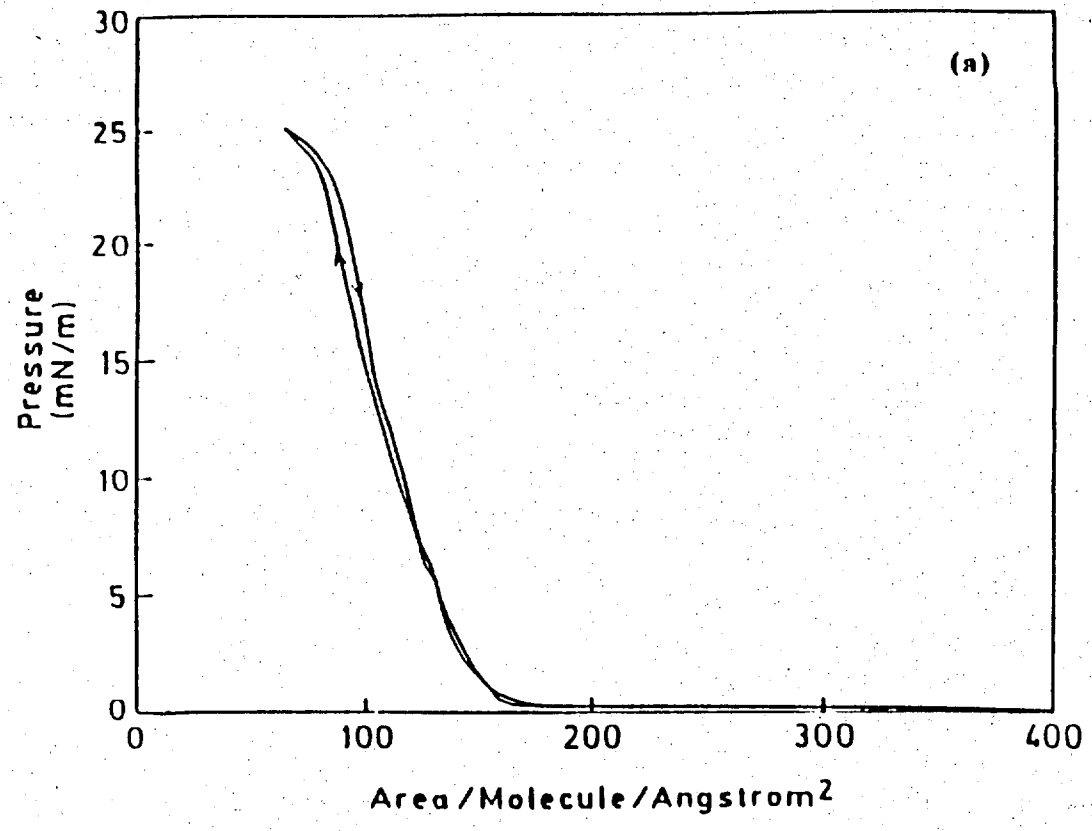


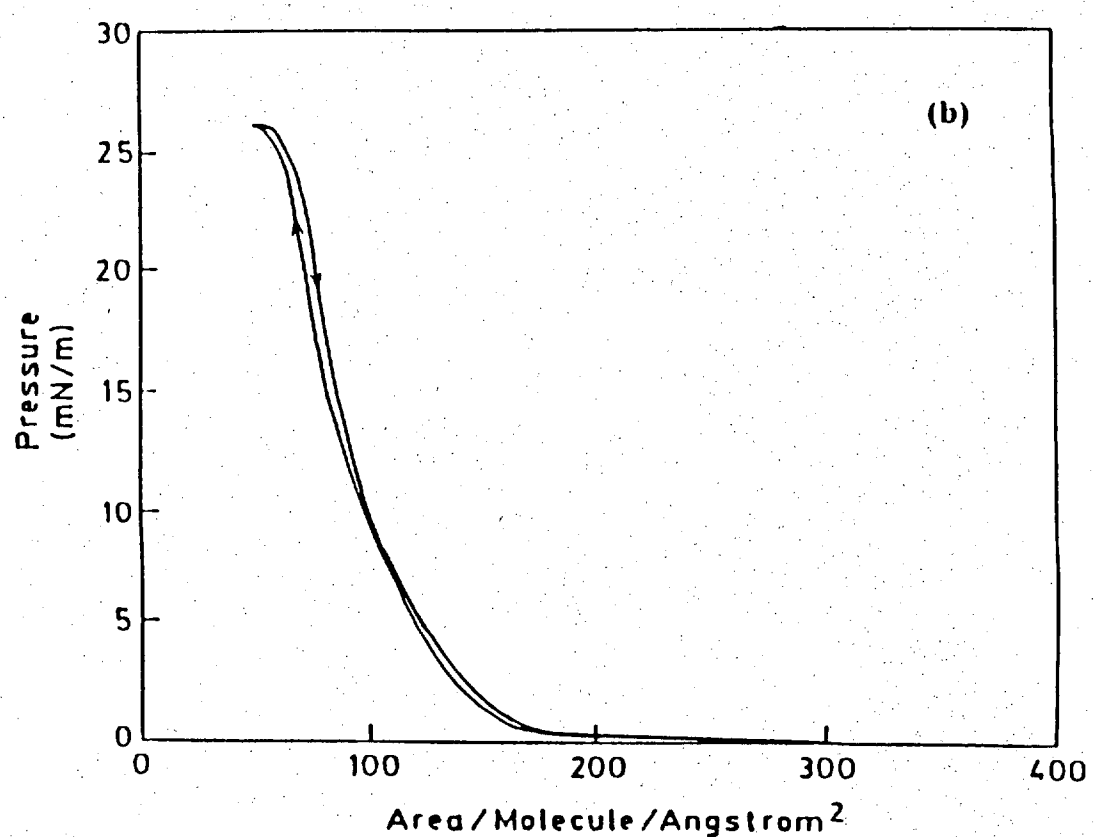
Packing of (a) L_5 and (b) L_6



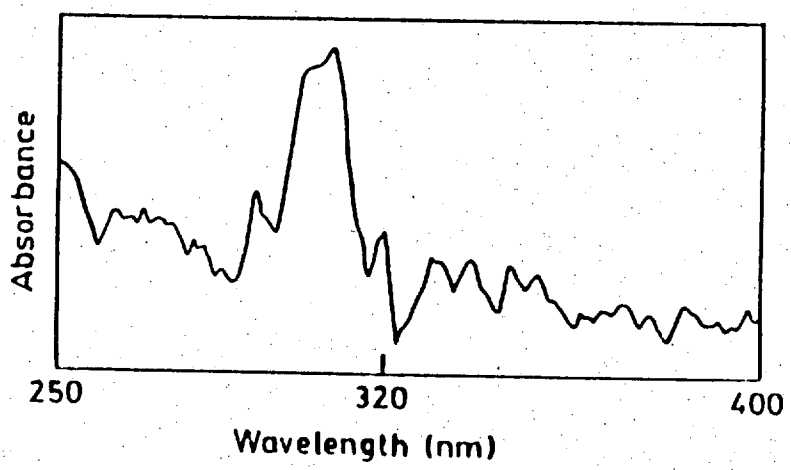
Pressure-area (Π -A) isotherms for Cu(II)-complex of L_1 – L_6, at 298 K.

L_1 (– – –), L_2 (–••–), L_3 (••••), L_4 (–•–•–), L_5 (------), L_6 (———)

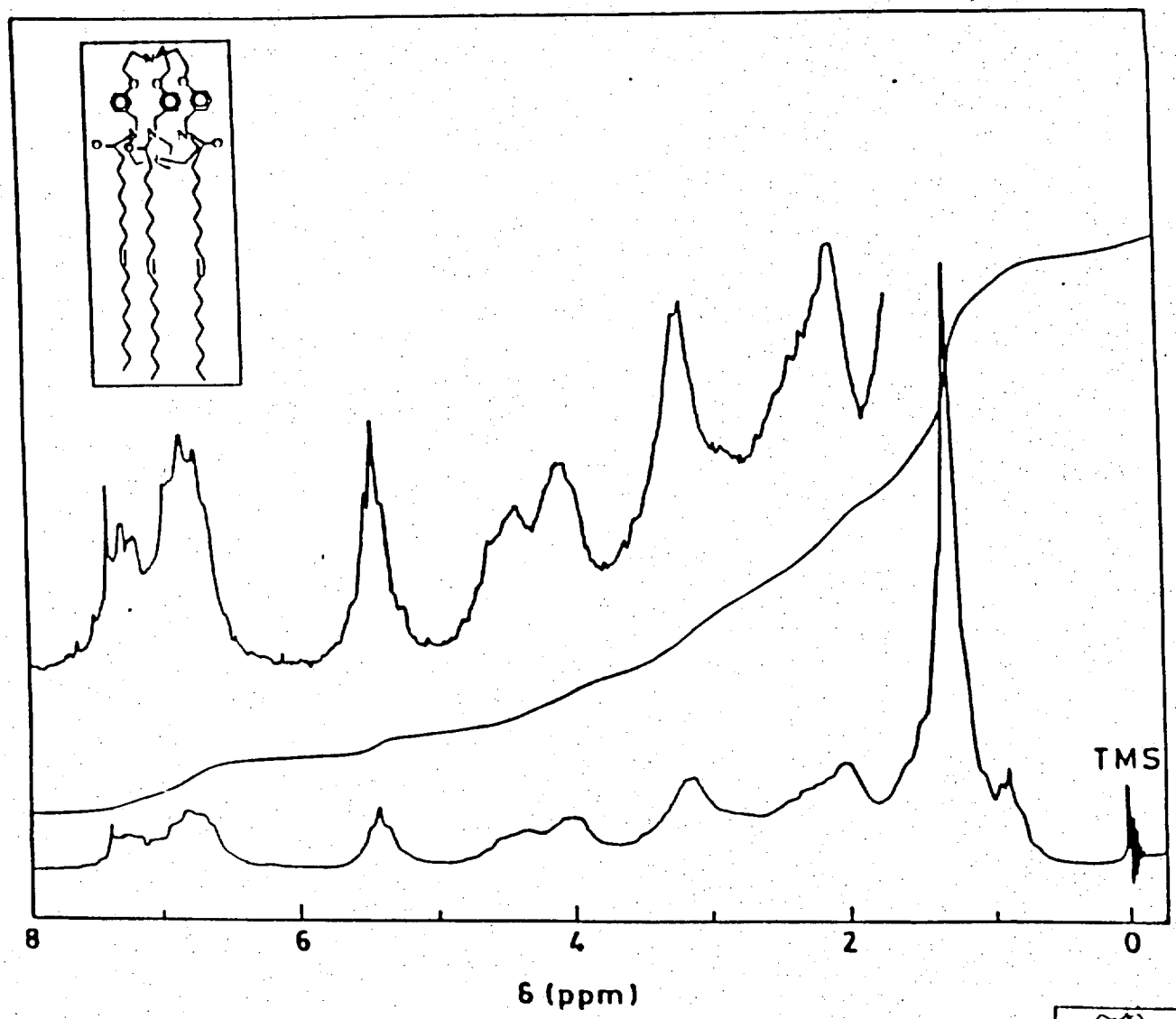


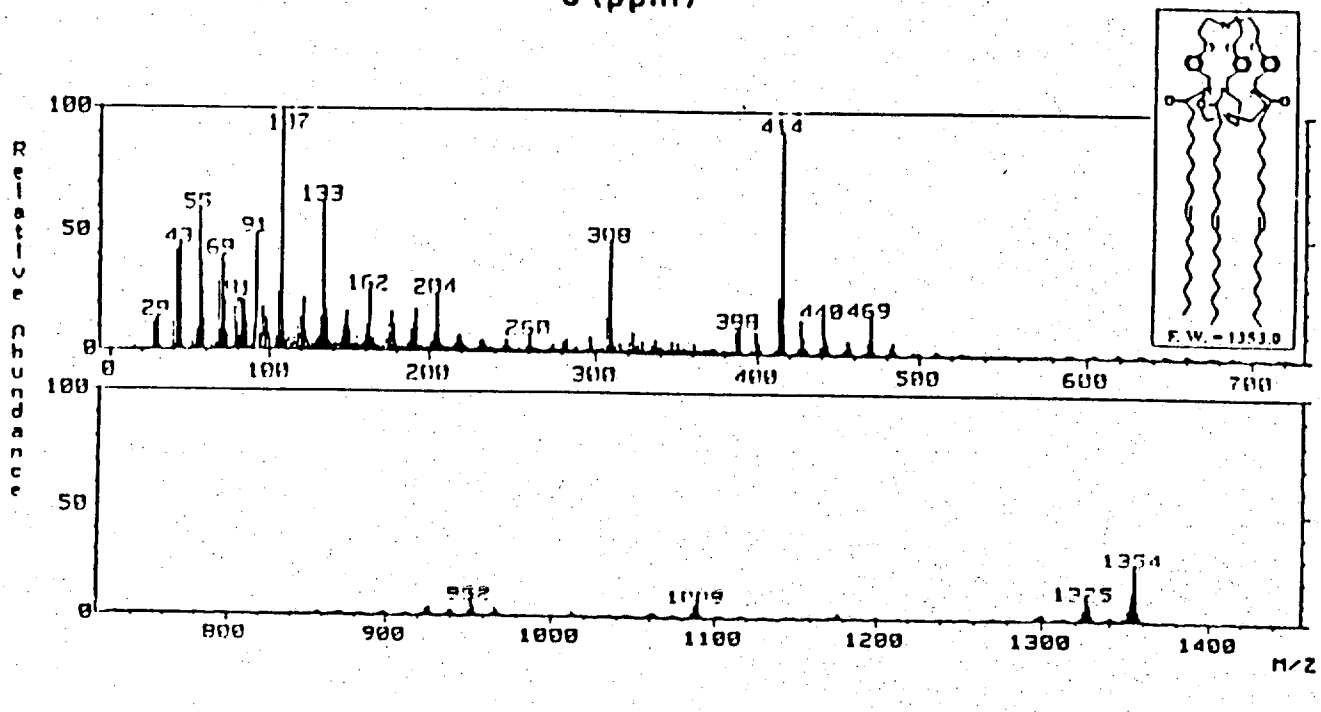


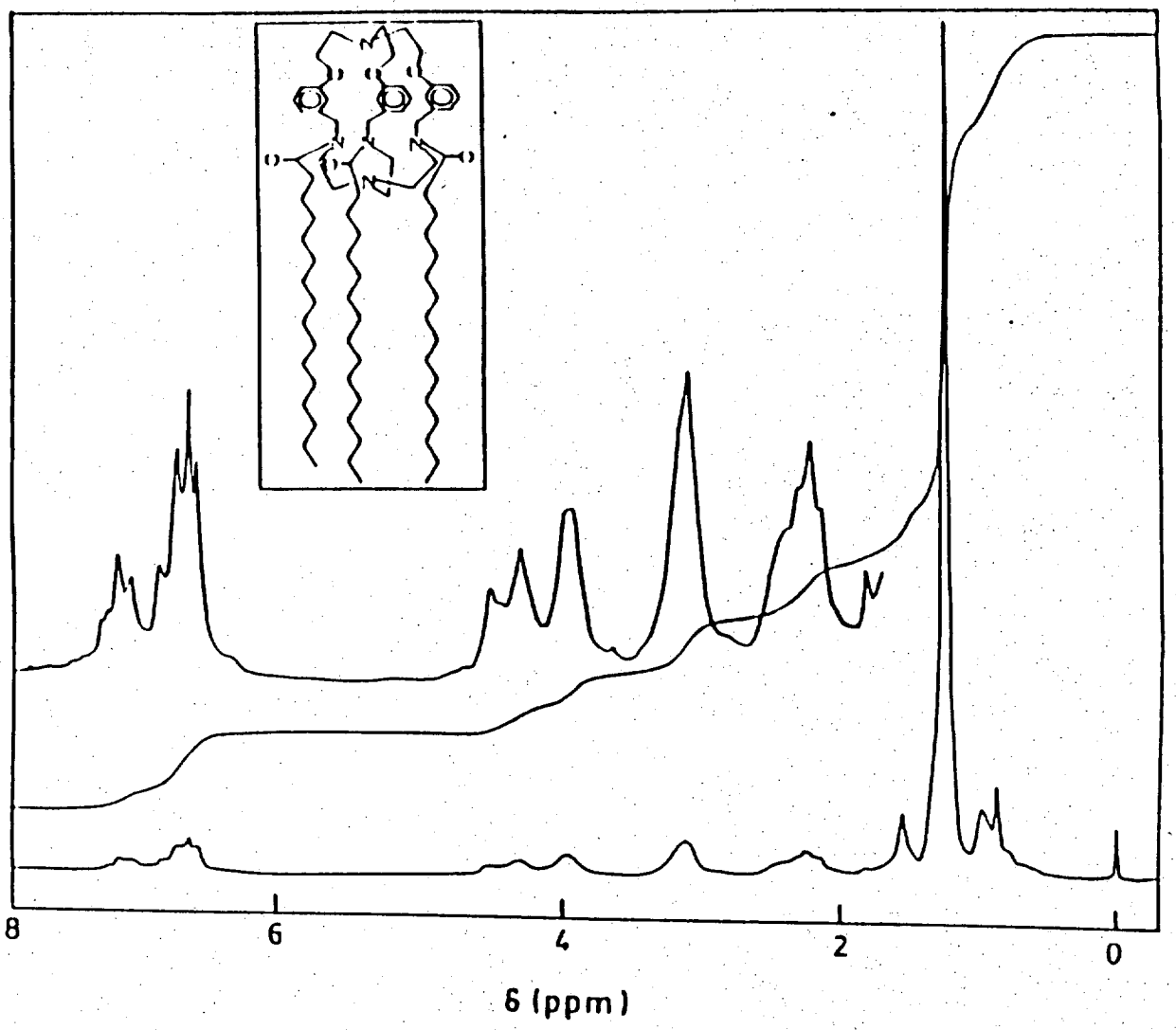
Representative successive compression and expansion cycles (hysteresis) with a monolayer of (a)L_2 and (b) Cu-complex of L_2 at 298 K, showing the reversibility of the compression.

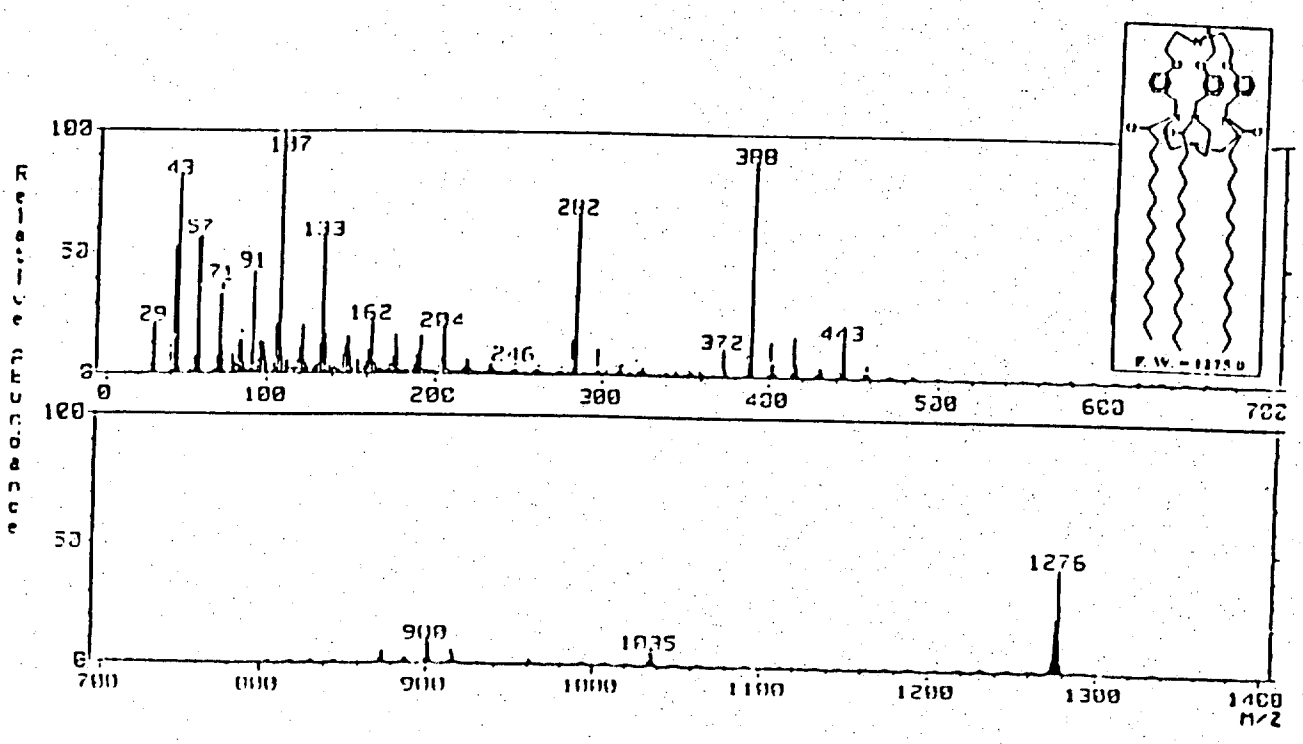


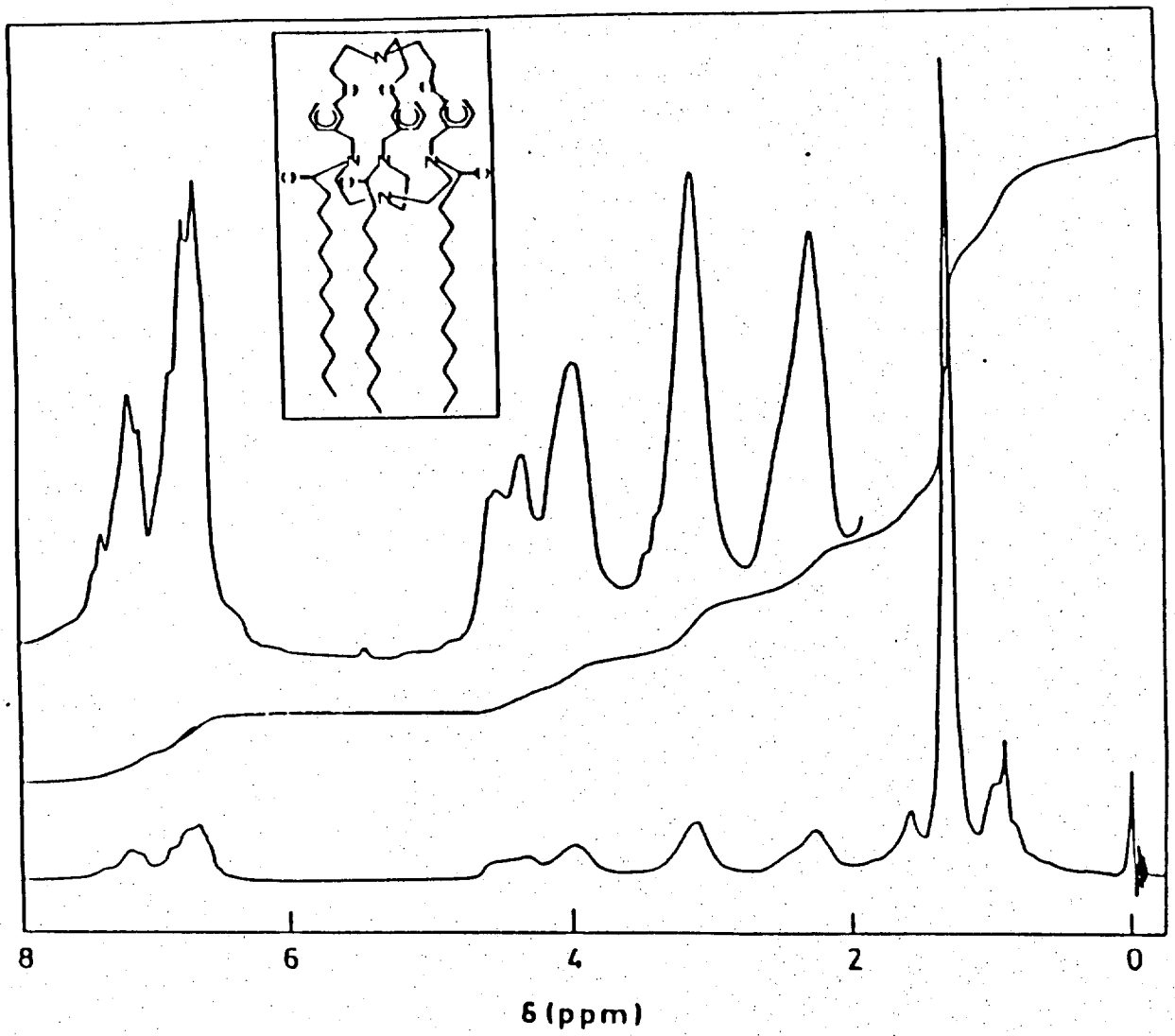
UV-Vis absorption spectra of the LB-film deposited onto quartz plate of L_2.

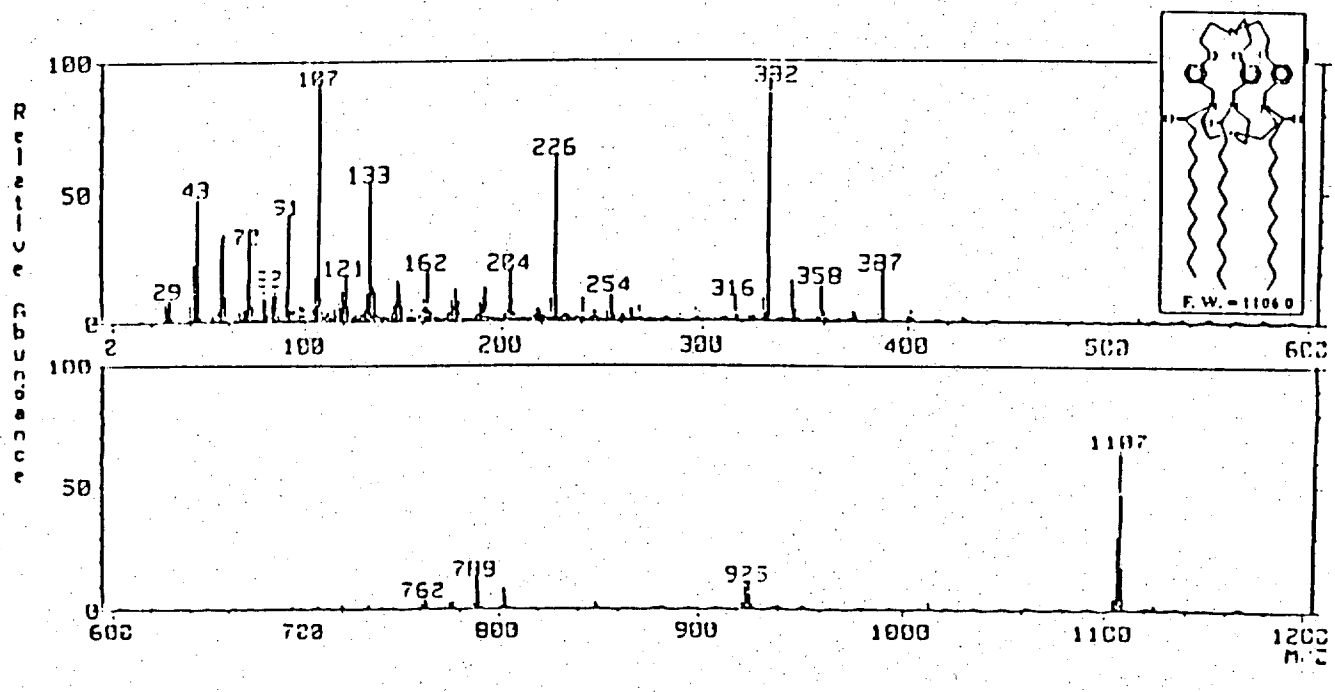


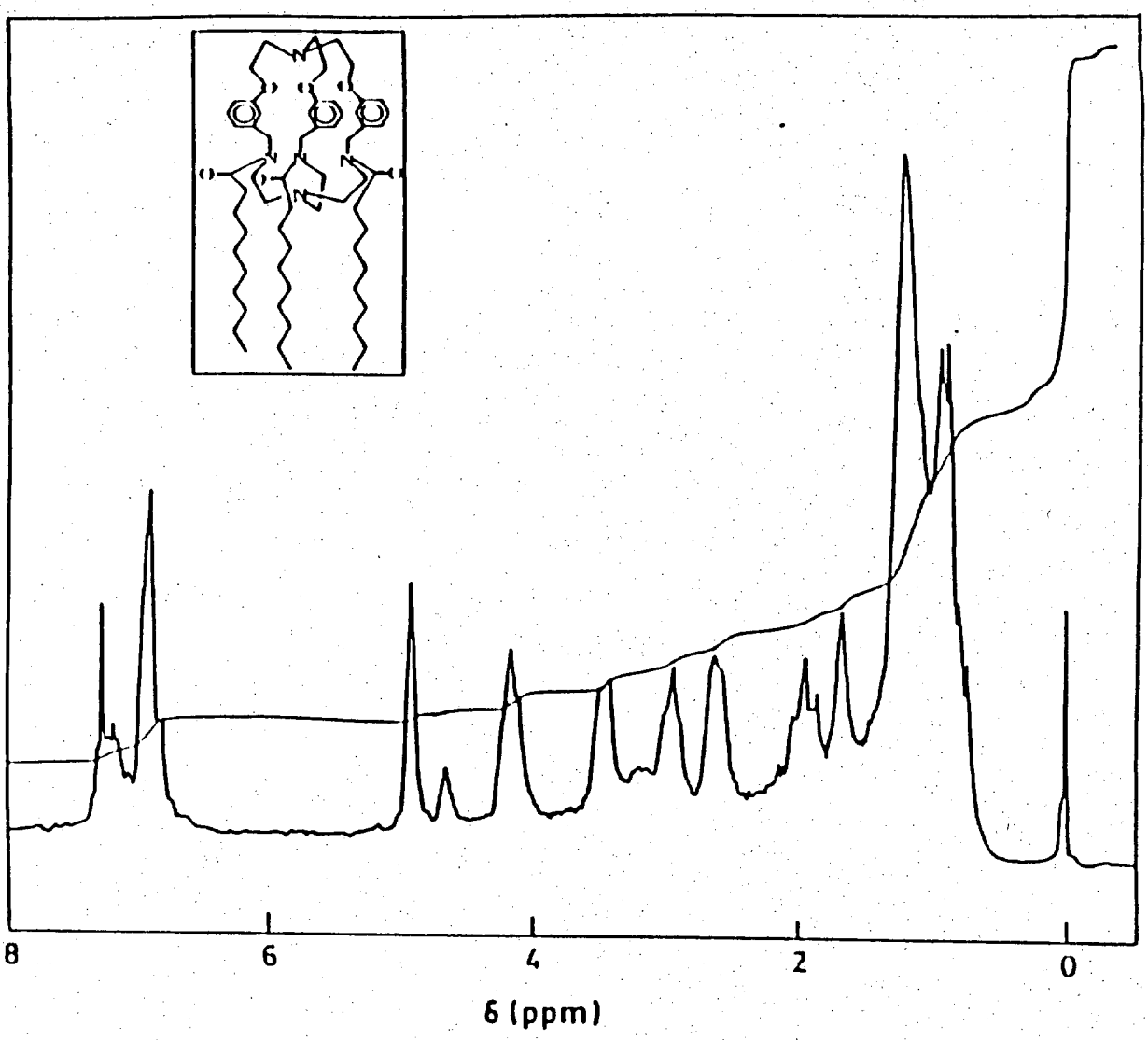


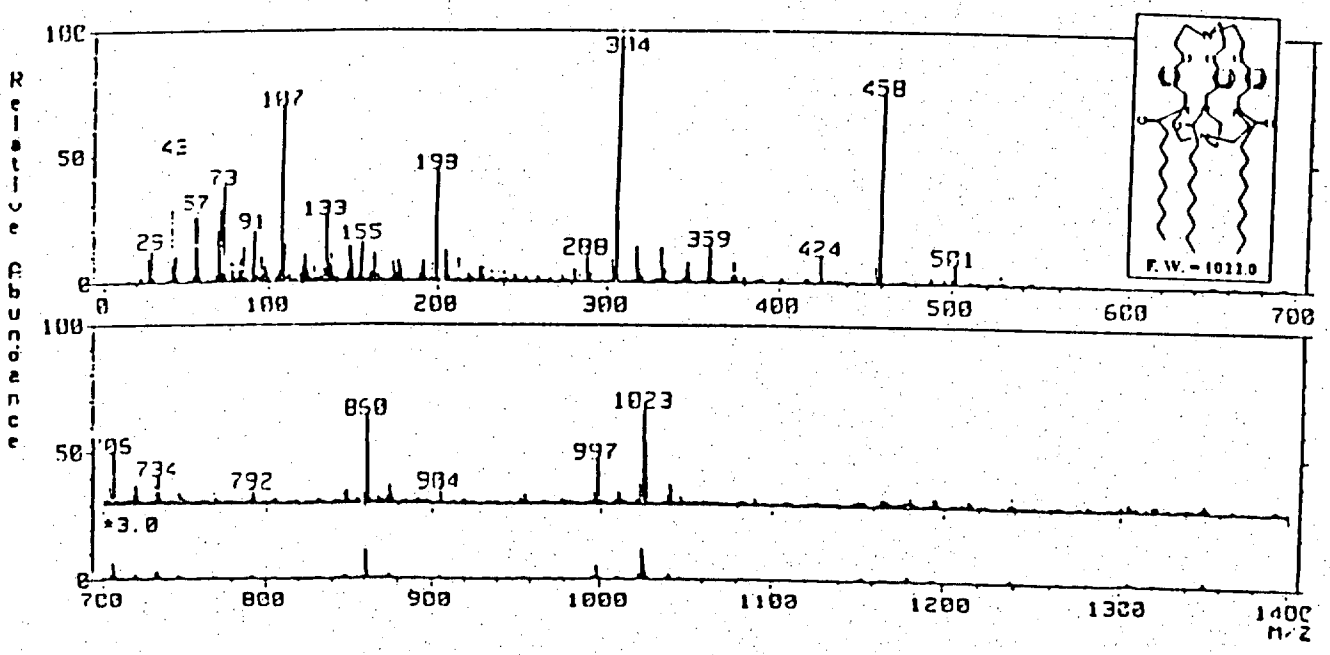

8
6
4
2
0
δ (ppm)

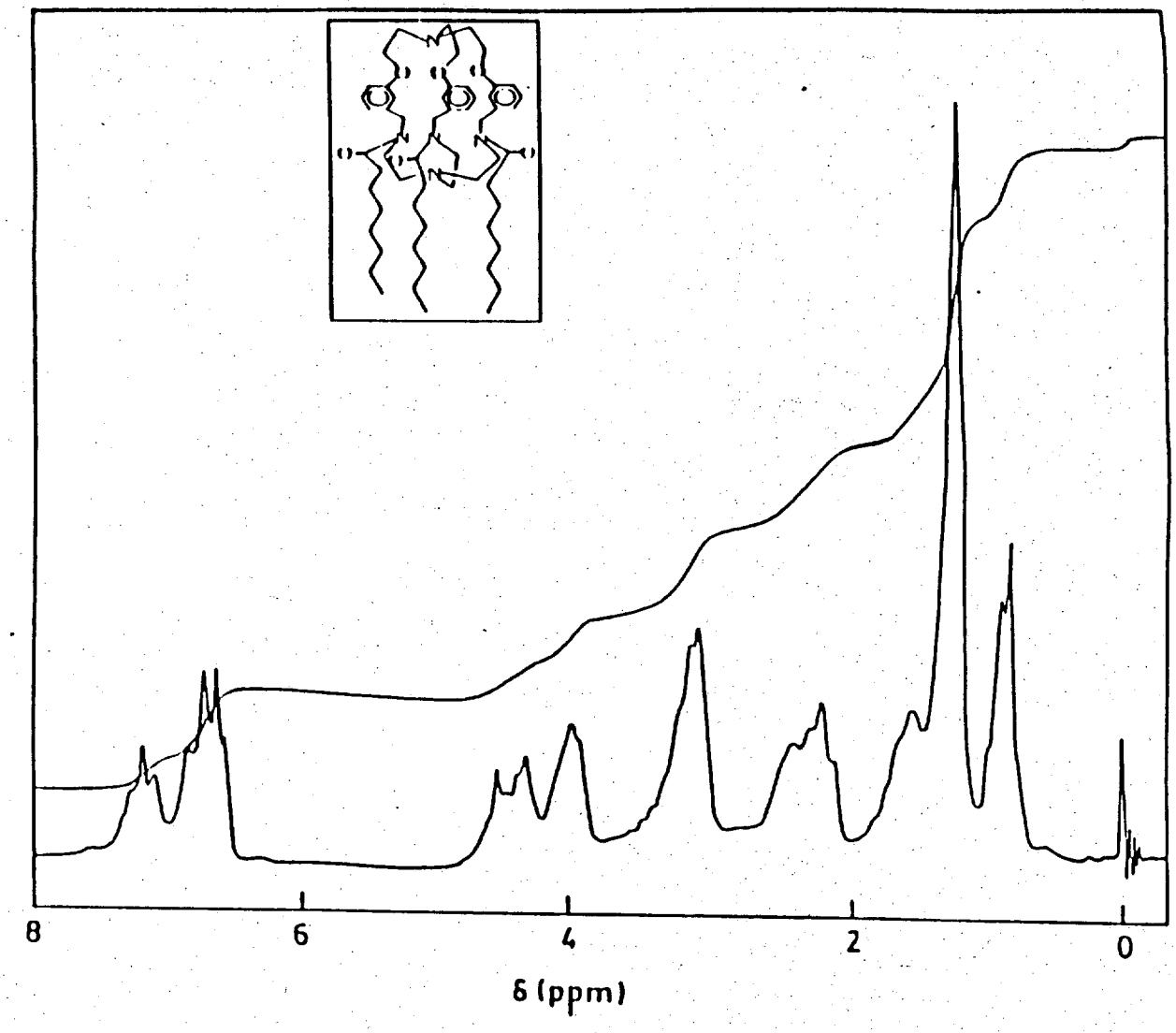

100
50
0
43
57
71
91
97
113
29
162
204
246
202
308
372
413
0
100
200
300
400
500
600
700
100
50
0
1276
900
1035
700
800
900
1000
1100
1200
1300
1400
M/Z

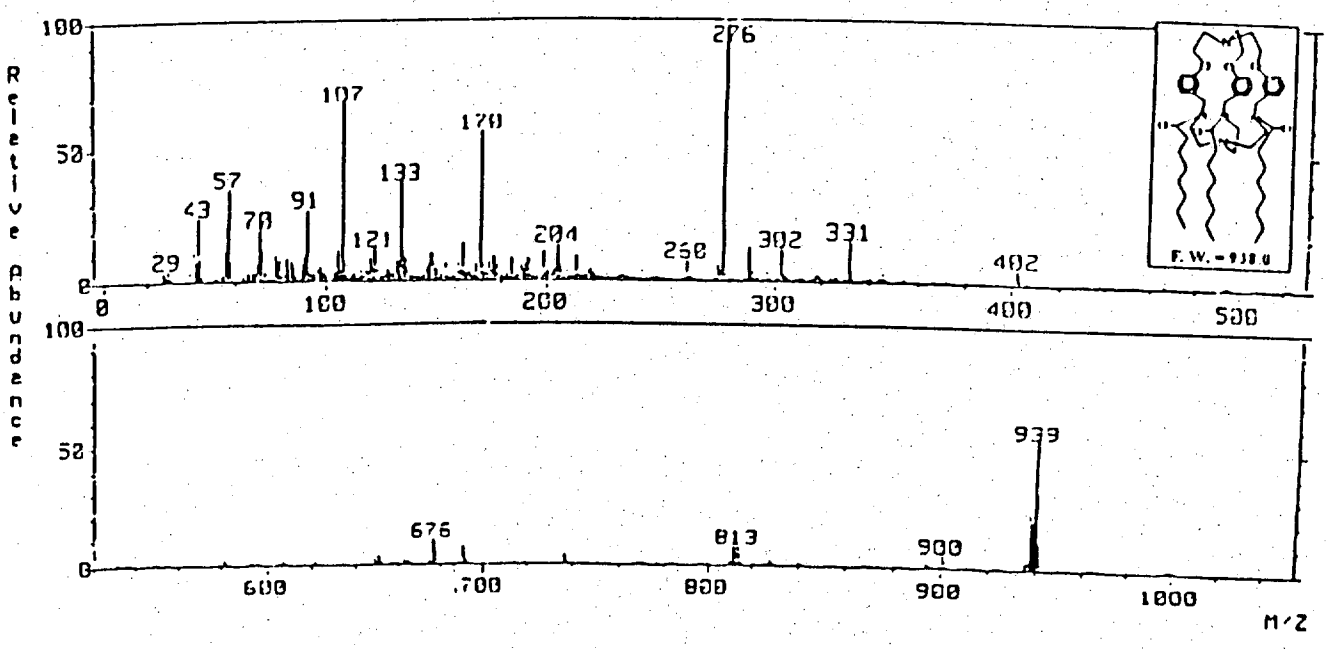


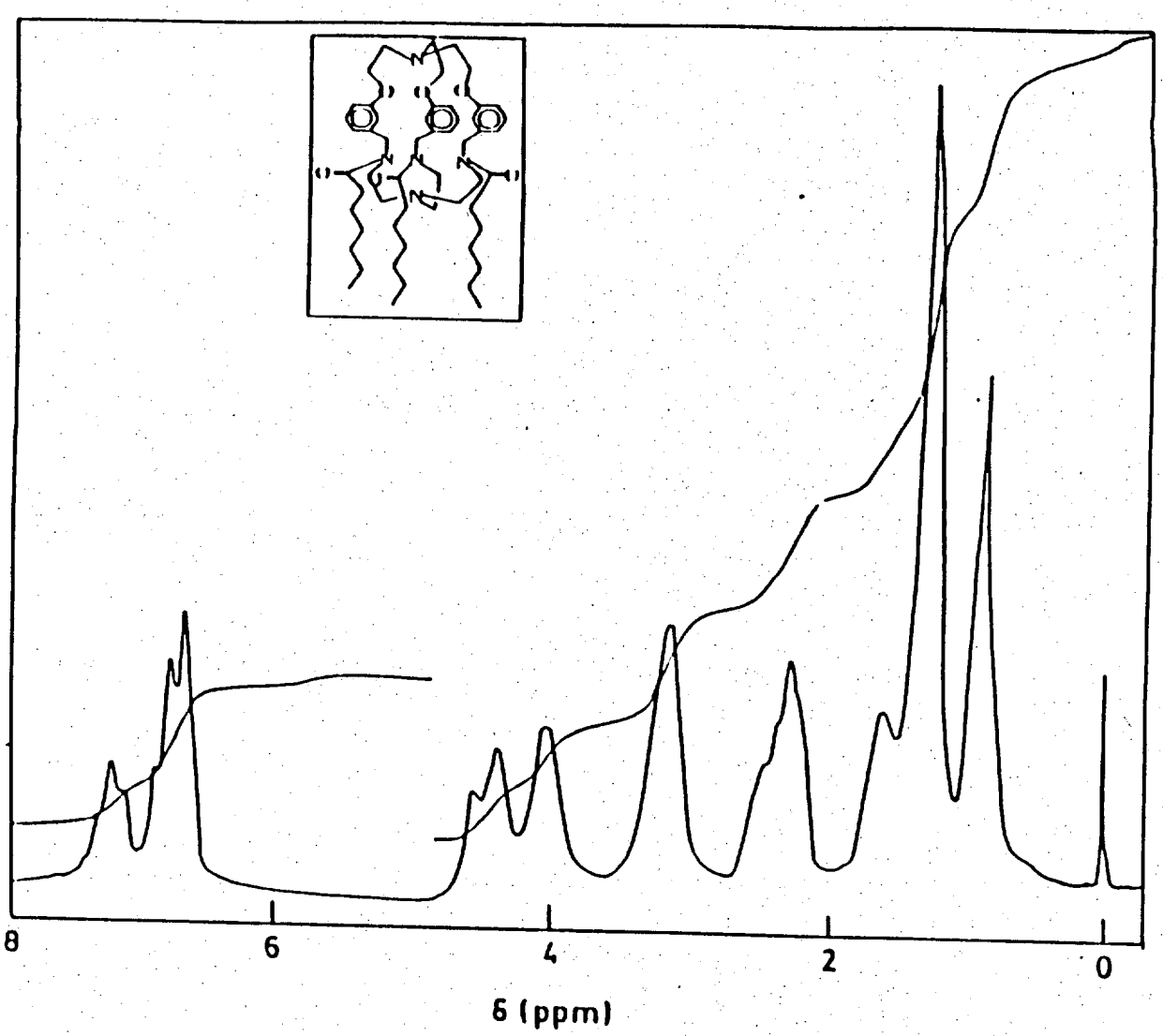


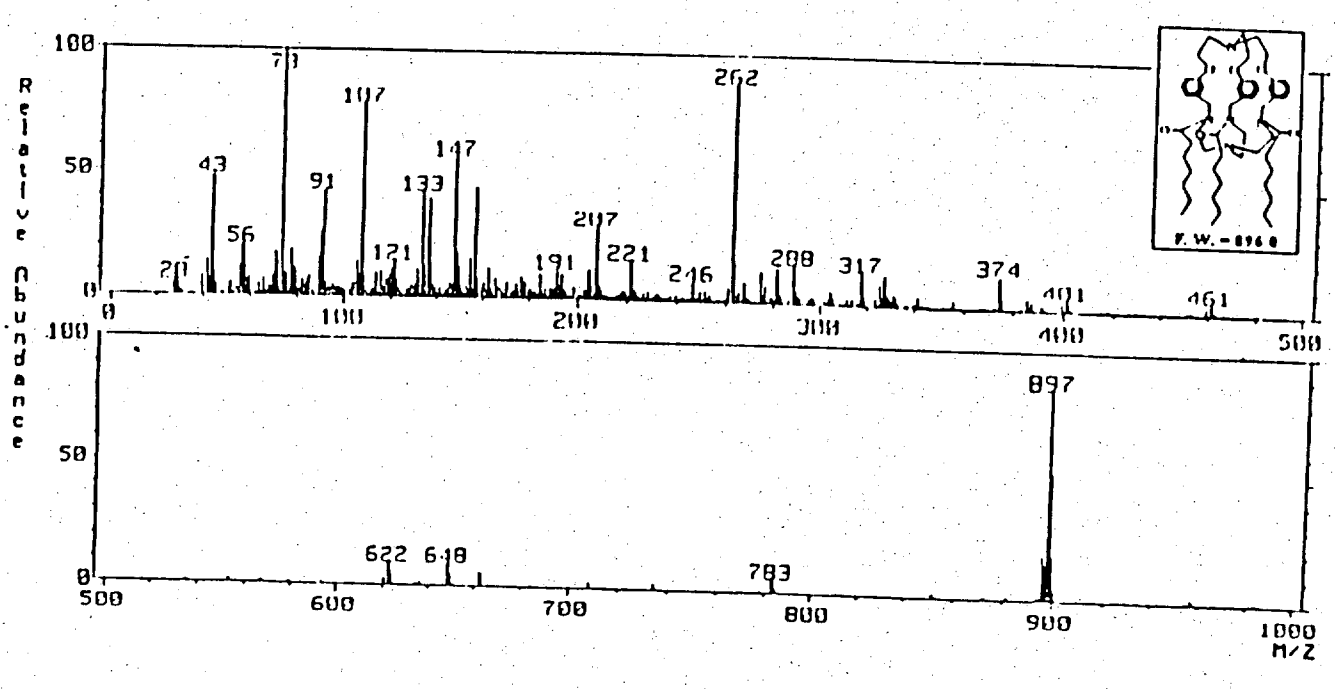


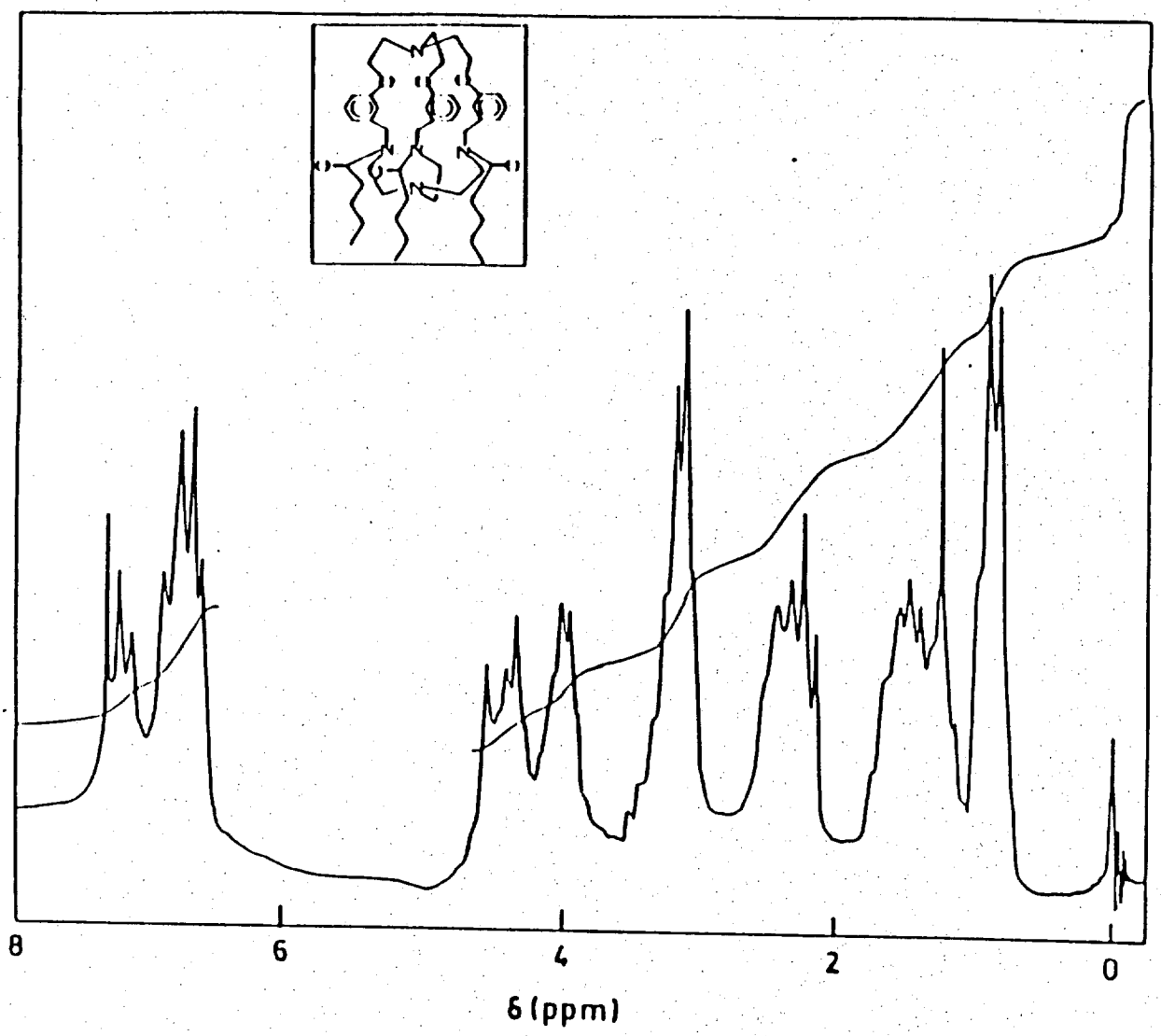







8
6
4
2
0
δ (ppm)


Relative Abundance
100
50
0
73
107
262
43
91
147
133
56
207
121
191
221
216
208
317
374
401
461
F.W.=896.0
0
100
200
300
400
500
897
622
618
783
500
600
700
800
900
1000
M/Z


8
6
4
2
0
δ (ppm)

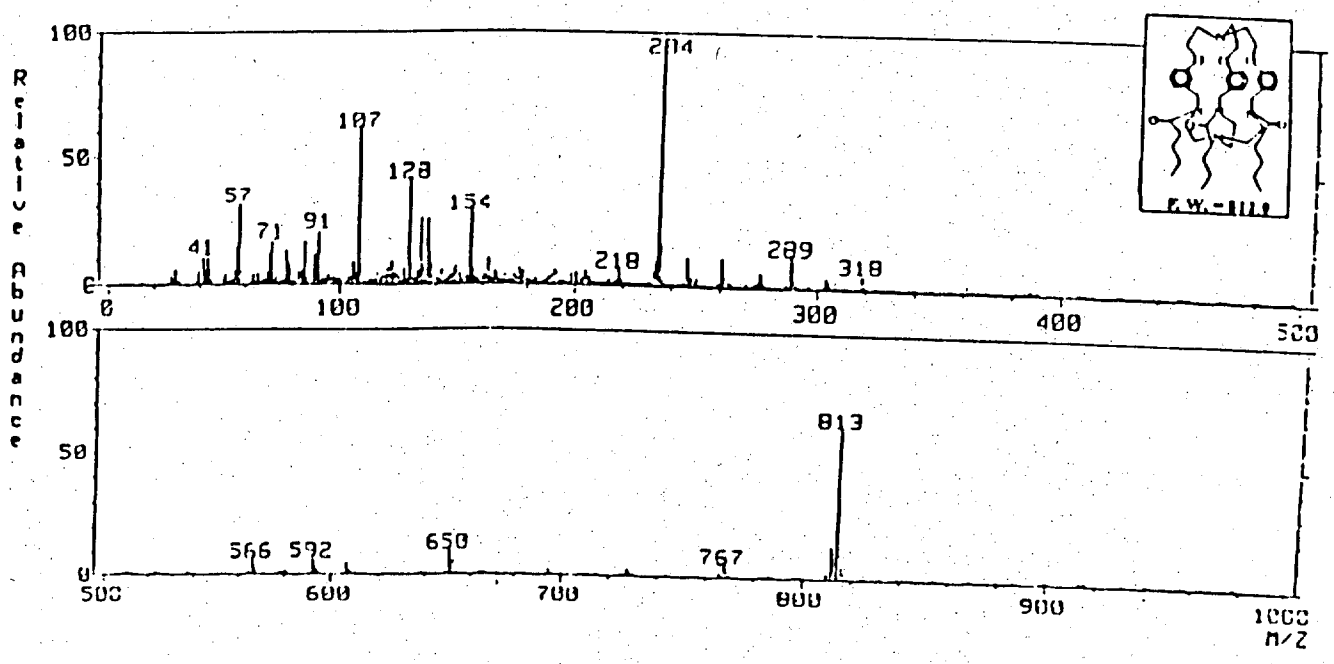

Relative Abundance
100
50
0
41
57
71
91
107
128
154
218
214
289
318
0
100
200
300
400
500
813
566
592
650
767
500
600
700
800
900
1000
m/z

Table 2. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [$Å^2$ x 10^3] for L_5. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
O(1A)	9431(3)	-1066(1)	4703(2)	35(1)
O(2A)	15404(3)	-608(1)	4401(2)	39(1)
O(1B)	12255(3)	-1424(1)	6471(2)	36(1)
O(2B)	14747(4)	-3082(1)	4988(2)	52(1)
O(1C)	9674(3)	-2408(1)	5323(2)	33(1)
O(2C)	10561(3)	-1928(1)	2117(2)	49(1)
N(1)	9510(4)	-1563(1)	6024(2)	30(1)
N(2)	14067(4)	-1908(1)	3602(2)	33(1)
N(1A)	13391(4)	-941(1)	4163(2)	33(1)
N(1B)	14161(4)	-2353(1)	5174(2)	32(1)
N(1C)	11074(4)	-2176(1)	3273(2)	32(1)
C(1A)	8245(5)	-1461(2)	5590(2)	36(1)
C(2A)	8256(5)	-1038(2)	5136(3)	36(1)
C(3A)	9658(5)	-700(2)	4259(2)	31(1)
C(4A)	8706(5)	-389(2)	4009(3)	41(1)
C(5A)	9041(5)	-49(2)	3531(3)	43(1)
C(6A)	10348(5)	-21(2)	3296(3)	48(2)
C(7A)	11294(5)	-330(2)	3562(3)	42(1)
C(8A)	11001(4)	-683(2)	4031(2)	31(1)
C(9A)	11995(4)	-1041(2)	4309(3)	32(1)
C(10A)	13827(5)	-1071(2)	3428(2)	39(1)
C(11A)	14761(5)	-1480(2)	3483(3)	37(1)
C(1RA)	14258(5)	-697(2)	4599(3)	32(1)
C(2RA)	13879(5)	-542(2)	5362(3)	41(1)
C(3RA)	15050(5)	-603(2)	5931(3)	45(1)
C(4RA)	14782(5)	-413(2)	6693(3)	43(1)
C(5RA)	15987(6)	-475(2)	7252(3)	48(2)
C(6RA)	15797(9)	-263(3)	8011(3)	84(2)
C(7RA)	17056(10)	-304(4)	8541(4)	99(3)
C(1B)	99575(5)	-1178(2)	6492(2)	37(1)
C(2B)	11249(5)	-1264(2)	6948(2)	34(1)
C(3B)	13410(5)	-1612(2)	6792(2)	32(1)
C(4B)	13917(5)	-1517(2)	7518(2)	37(1)
C(5B)	15111(5)	-1709(2)	7774(3)	42(1)
C(6B)	15815(5)	-1996(2)	7344(3)	42(1)
C(7B)	15297(5)	-2088(2)	6625(2)	36(1)
C(8B)	14092(5)	-1906(2)	6343(2)	32(1)
C(9B)	13457(5)	-2008(2)	5568(2)	35(1)
C(10B)	15307(4)	-2202(2)	4761(2)	33(1)
C(11B)	15024(5)	-2247(2)	3926(2)	34(1)

Contd.

C(1RB)	13999(5)	-2806(2)	5266(2)	37(1)
C(2RB)	12884(5)	-2965(2)	5747(3)	43(1)
C(3RB)	12720(6)	-3466(2)	5779(3)	50(2)
C(4RB)	12010(7)	-3674(2)	5104(3)	61(2)
C(5RB)	11840(8)	-4186(2)	5145(4)	72(2)
C(6RB)	10916(9)	-4396(3)	4541(4)	99(3)
C(7RB)	11391(12)	-4333(3)	3812(5)	112(3)
C(1C)	9455(5)	-1989(2)	6430(2)	36(1)
C(2C)	8937(5)	-2387(2)	5988(2)	33(1)
C(3C)	9257(5)	-2716(2)	4807(2)	29(1)
C(4C)	8389(5)	-3077(2)	4900(3)	37(1)
C(5C)	8053(5)	-3377(2)	4330(3)	42(1)
C(6C)	8629(5)	-3326(2)	3661(3)	45(1)
C(7C)	9490(5)	-2964(2)	3562(2)	37(1)
C(8C)	9846(5)	-2659(2)	4114(2)	31(1)
C(9C)	10741(5)	-2252(2)	4037(2)	35(1)
C(10C)	12269(5)	-2404(2)	3019(3)	37(1)
C(11C)	13428(5)	-2086(2)	2907(2)	34(1)
C(1RC)	10282(5)	-1948(2)	2781(2)	34(1)
C(2RC)	9007(5)	-1730(2)	3028(3)	48(1)
C(3RC)	8195(7)	-1520(2)	2325(4)	67(4)
C(4RC)	8854(9)	-1060(2)	2117(4)	69(4)
C(5RC)	8225(9)	-893(4)	1338(4)	157(9)
C(6RC)	6783(12)	-695(7)	1420(4)	169(11)
C(3RD)	8257(13)	-1351(2)	2546(6)	58(6)
C(4RD)	7360(20)	-1573(4)	1888(9)	710(100)
C(5RD)	6365(14)	-1210(6)	1520(10)	520(70)
C(6RD)	7166(11)	-875(5)	1040(10)	89(7)
C(7RC)	6160(11)	-529(3)	635(5)	141(4)

Table 3. Bond lengths [Å] and bond angles [°] for L_5.

O(1A) – C(3A)	1.392(5)	O(1A) – C(2A)	1.474(5)
O(2A) C(1RA)	1.266(5)	O(1B) – C(3B)	1.383(6)
O(1B) – C(2B)	1.465(5)	O(2B) – C(1RB)	1.253(6)
O(1C) – C(3C)	1.359(5)	O(1C) – C(2C)	1.469(5)
O(2C) – C(1RC)	1.261(5)	N(1) – C(1C)	1.478(6)
N(1)- C(1A)	1.480(6)	N(1) – C(1B)	1.489(6)
N(2) – C(11C)	1.473(6)	N(2) – C(11A)	1.486(6)
N(2) – C(11B)	1.491(6)	N(1A) – C(1RA)	1.351(6)
N(1A) – C(9A)	1.484(6)	N(1A) – C(10A)	1.489(5)
N(1B) – C(1RB)	1.378(6)	N(1B) – C(9B)	1.473(6)
N(1B) – C(10B)	1.496(5)	N(1C) – C(1RC)	1.340(6)
N(1C) – C(9C)	1.471(5)	N(1C) – C(10C)	1.491(6)
C(1A) – C(2A)	1.515(7)	C(3A) – C(4A)	1.391(7)
C(3A) – C(8A)	1.448(6)	C(4A) – C(5A)	1.399(7)
C(5A) – C(6A)	1.419(7)	C(6A) – C(7A)	1.392(7)
C(7A) – C(8A)	1.405(7)	C(8A) – C(9A)	1.527(7)
C(10A) – C(11A)	1.547(7)	C(1RA) – C(2RA)	1.538(6)
C(2RA) – C(3RA)	1.520(7)	C(3RA) – C(4RA)	1.541(7)
C(4RA) – C(5RA)	1.534(8)	C(5RA) – C(6RA)	1.544(8)
C(6RA) – C(7RA)	1.539(11)	C(1B) – C(2B)	1.497(7)
C(3B) – C(4B)	1.406(6)	C(3B) – C(8B)	1.416(6)
C(4B) – C(5B)	1.383(7)	C(5B) – C(6B)	1.394(7)
C(6B) – C(7B)	1.396(7)	C(7B) – C(8B)	1.394(7)
C(8B) – C(9B)	1.533(6)	C(10B) – C(11B)	1.528(6)
C(1RB) – C(2RB)	1.552(7)	C(2RB) – C(3RB)	1.514(8)
C(3RB) – C(4RB)	1.508(8)	C(4RB) – C(5RB)	1.547(9)
C(1C) – C(2C)	1.508(7)	C(3C) – C(4C)	1.411(6)
C(3C) – C(8C)	1.443(5)	C(4C) – C(5C)	1.393(7)
C(5C) – C(6C)	1.395(7)	C(6C) – C(7C)	1.411(7)
C(7C) – C(8C)	1.385(6)	C(8C) – C(9C)	1.533(7)
C(10C) – C(11C)	1.535(7)	C(1RC) – C(2RC)	1.541(7)
C(2RC) – C(3RD)	1.591(3)	C(2RC) – C(3RC)	1.593(3)
C(3RC) – C(4RC)	1.590(4)	C(4RC) – C(5RC)	1.589(3)
C(5RC) – C(6RC)	1.590(4)	C(6RC) – C(7RC)	1.594(3)
C(3RD) – C(4RD)	1.591(3)	C(4RD) – C(5RD)	1.591(3)
C(5RD) – C(6RD)	1.592(3)	C(6RD) – C(7RD)	1.592(3)
C(3A) – O(1A) – C(2A)	116.0(3)	C(3B) – O(1B) – C(2B)	118.9(3)
C(3C) – O(1C) – C(2C)	116.6(3)	C(1C) – N(1) – C(1A)	112.5(4)
C(1C) – N(1) – C(1B)	114.1(3)	C(1A) – N(1) – C(1B)	111.3(4)
C(11C) – N(2) – C(11A)	111.5(4)	C(11C) – N(2) – C(11B)	108.7(3)
C(11A) – N(2) – C(11B)	110.4(4)	C(1RA) – N(1A) – C(9A)	125.8(4)
C(1RA) – N(1A) – C(10A)	116.4(4)	C(9A) – N(1A) – C(10A)	117.3(4)

Contd.

C(1RB) – N(1B) – C(9B)	124.6(4)	C(1RB) – N(1B) – C(10B)	117.5(4)
C(9B) – N(1B) – C(10B)	116.7(4)	C(1RC) – N(1C) – C(9C)	122.8(4)
C(1RC) – N(1C) – C(10C)	118.8(3)	C(9C) – N(1C) – C(10C)	118.1(4)
N(1) – C(1A) – C(2A)	115.0(4)	O(1A) – C(2A) – C(1A)	106.4(4)
C(4A) – C(3A) – O(1A)	125.3(4)	C(4A) – C(3A) – C(8A)	121.5(4)
O(1A) – C(3A) – C(8A)	113.1(4)	C(3A) – C(4A) – C(5A)	119.4(4)
C(4A) – C(5A) – C(6A)	120.3(5)	C(7A) – C(6A) – C(5A)	119.0(5)
C(6A) – C(7A) – C(8A)	122.9(4)	C(7A) – C(8A) – C(3A)	116.3(4)
C(7A) – C(8A) – C(9A)	124.5(4)	C(3A) – C(8A) – C(9A)	119.1(4)
N(1A) – C(9A) – C(8A)	114.1(4)	N(1A) – C(10A) – C(11A)	111.7(4)
N(2) – C(11A) – C(10A)	113.8(4)	O(2A) – C(1RA) – N(1A)	120.8(4)
O(2A) – C(1RA) – C(2RA)	119.2(4)	N(1A) – C(1RA) – C(2RA)	119.9(4)
C(3RA) – C(2RA) – C(1RA)	110.0(4)	C(2RA) – C(3RA) – C(4RA)	112.8(4)
C(5RA) – C(4RA) – C(3RA)	111.5(4)	C(4RA) – C(5RA) – C(6RA)	113.3(5)
C(7RA) – C(6RA) – C(5RA)	119.9(7)	N(1) – C(1B) – C(2B)	113.7(4)
O(1B) – C(2B) – C(1B)	109.5(3)	O(1B) – C(3B) – C(4B)	123.2(4)
O(1B) – C(3B) – C(8B)	116.2(4)	C(4B) – C(3B) – C(8B)	120.6(5)
C(5B) – C(5B) – C(3B)	118.5(4)	C(4B) – C(5B) – C(6B)	122.4(5)
C(5B) – C(6B) – C(7B)	118.5(5)	C(8B) – C(7B) – C(6B)	121.3(5)
C(7B) – C(8B) – C(3B)	118.7(4)	C(7B) – C(8B) – C(9B)	123.5(4)
C(3B) – C(8B) – C(9B)	117.8(4)	N(1B) – C(9B) – C(8B)	113.8(4)
N(1B) – C(10B) – C(11B)	112.2(4)	N(2) – C(11B) – C(10B)	113.5(4)
O(2B) – C(1RB) – N(1B)	121.4(4)	O(2B) – C(1RB) – C(2RB)	120.6(5)
N(1B) – C(1RB) – C(2RB)	117.9(4)	C(3RB) – C(2RB) – C(1RB)	114.4(4)
C(4RB) – C(3RB) – C(2RB)	115.3(5)	C(3RB) – C(4RB) – C(5RB)	114.8(5)
C(6RB) – C(5RB) – C(4RB)	116.1(7)	C(7RB) – C(6RB) – C(5RB)	112.1(8)
N(1) – C(1C) – C(2C)	116.3(4)	O(1C) – C(2C) – C(1C)	107.2(3)
O(1C) – C(3C) – C(4C)	126.9(4)	O(1C) – C(3C) – C(8C)	113.3(4)
C(4C) – C(3C) – C(8C)	119.7(4)	C(5C) – C(4C) – C(3C)	121.6(4)
C(4C) – C(5C) – C(6C)	118.9(5)	C(5C) – C(6C) – C(7C)	119.8(5)
C(8C) – C(7C) – C(6C)	122.9(4)	C(7C) – C(8C) – C(3C)	117.0(4)
C(7C) – C(8C) – C(9C)	125.6(4)	C(3C) – C(8C) – C(9C)	117.3(4)
N(1C) – C(9C) – C(8C)	112.9(4)	N(1C) – C(10C) – C(11C)	113.5(4)
N(2) – C(11C) – C(10C)	113.5(3)	O(2C) – C(1RC) – N(1C)	119.8(4)
O(2C) – C(1RC) – C(2RC)	120.8(4)	N(1C) – C(1RC) – C(2RC)	119.3(4)
C(1RC) – C(2RC) – C(3RD)	121.0(7)	C(1RC) – C(2RC) – C(3RC)	108.9(7)
C(3RD) – C(2RC) – C(3RC)	23.4(4)	C(4RC) – C(3RC) – C(2RC)	109.6(2)
C(5RC) – C(4RC) – C(3RC)	109.8(2)	C(6RC) – C(5RC) – C(4RC)	109.2(2)
C(5RC) – C(6RC) – C(7RC)	109.5(2)	C(2RC) – C(3RD) – C(4RD)	109.5(2)
C(5RD) – C(4RD) – C(3RD)	109.5(2)	C(6RD) – C(5RD) – C(4RD)	109.2(2)
C(5RD) – C(6RD) – C(7RC)	109.4(2)	C(6RD) – C(7RC) – C(6RC)	35.8(8)

Table 4. Anisotropic displacement parameters [$Å^2 \times 10^3$] for L_5. The anisotropic displacement factor exponent takes the form: $-2\pi^2 [(ha^*)^2 U_{11} + \ldots\ldots + 2hka^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
O(1A)	15(2)	54(2)	37(2)	8(2)	16(1)	6(2)
O(2A)	10(2)	62(2)	47(2)	-4(2)	8(2)	-3(2)
O(1B)	25(2)	63(2)	23(2)	-6(1)	9(1)	3(2)
O(2B)	38(2)	66(2)	55(2)	0(2)	20(2)	16(2)
O(1C)	26(2)	52(2)	23(2)	-4(1)	16(1)	-6(2)
O(2C)	30(2)	92(3)	28(2)	6(2)	10(2)	-7(2)
N(1)	17(2)	52(2)	23(2)	-1(2)	8(2)	-2(2)
N(2)	20(2)	58(3)	22(2)	-3(2)	9(2)	3(2)
N(1A)	18(2)	50(2)	32(2)	-2(2)	11(2)	-3(2)
N(1B)	20(2)	56(3)	21(2)	1(2)	8(2)	4(2)
N(1C)	21(2)	55(2)	20(2)	-2(2)	11(2)	-2(2)
C(1A)	14(3)	62(3)	34(2)	7(2)	12(2)	5(2)
C(2A)	14(3)	63(3)	34(3)	4(2)	17(2)	8(2)
C(3A)	18(3)	42(3)	32(2)	0(2)	6(2)	0(2)
C(4A)	24(3)	55(3)	44(3)	3(2)	13(2)	7(2)
C(5A)	19(3)	54(3)	57(3)	9(2)	6(3)	11(2)
C(6A)	31(4)	58(3)	58(3)	17(3)	18(3)	3(3)
C(7A)	23(3)	49(3)	56(3)	9(2)	16(3)	3(2)
C(8A)	13(3)	48(3)	32(2)	-1(2)	5(2)	-2(2)
C(9A)	11(3)	47(3)	38(3)	6(2)	6(2)	0(2)
C(10A)	29(3)	62(3)	28(2)	7(2)	11(2)	-6(2)
C(11A)	23(3)	60(3)	30(2)	-2(2)	12(2)	-3(2)
C(1RA)	16(3)	41(3)	40(3)	-2(2)	7(2)	-4(2)
C(2RA)	17(3)	63(4)	45(3)	-9(2)	11(3)	-2(2)
C(3RA)	30(3)	64(4)	43(3)	-1(2)	21(3)	2(3)
C(4RA)	32(4)	56(3)	41(3)	-2(2)	10(3)	1(3)
C(5RA)	49(4)	58(4)	40(3)	4(2)	15(3)	-6(3)
C(6RA)	105(7)	107(6)	39(3)	-10(3)	9(4)	13(5)
C(7RA)	103(8)	135(9)	54(4)	1(5)	-21(5)	0(7)
C(1B)	26(3)	56(3)	29(2)	-4(2)	14(2)	5(2)
C(2B)	18(3)	59(3)	28(2)	-10(2)	12(2)	-1(2)
C(3B)	17(3)	49(3)	29(2)	2(2)	2(2)	0(2)
C(4B)	33(4)	59(3)	21(2)	0(2)	4(2)	-5(3)
C(5B)	32(4)	65(3)	28(3)	5(2)	-2(2)	-12(3)
C(6B)	25(3)	71(4)	30(3)	12(2)	-2(2)	-5(3)
C(7B)	22(3)	58(3)	28(2)	4(2)	6(2)	0(2)
C(8B)	20(3)	53(3)	24(2)	4(2)	7(2)	-7(2)
C(9B)	22(3)	60(3)	22(2)	-3(2)	3(2)	9(2)
C(10B)	9(3)	61(3)	29(2)	4(2)	5(2)	1(2)
C(11B)	22(3)	53(3)	27(2)	-4(2)	11(2)	0(2)

Contd.

C(1RB)	23(3)	60(3)	28(2)	3(2)	2(2)	8(2)
C(2RB)	29(4)	67(4)	34(3)	4(2)	11(2)	2(3)
C(3RB)	40(4)	68(4)	44(3)	6(3)	15(3)	4(3)
C(4RB)	47(4)	75(4)	60(4)	2(3)	6(3)	5(3)
C(5RB)	84(6)	64(4)	68(4)	-8(3)	11(4)	-20(4)
C(6RB)	129(8)	93(6)	80(5)	6(4)	27(5)	-23(5)
C(7RB)	137(11)	113(8)	86(6)	0(5)	15(6)	-31(7)
C(1C)	32(3)	58(3)	20(2)	2(2)	15(2)	6(2)
C(2C)	31(3)	53(3)	18(2)	7(2)	17(2)	-2(2)
C(3C)	24(3)	45(3)	19(2)	3(2)	8(2)	0(2)
C(4C)	30(3)	50(3)	32(3)	5(2)	8(2)	-5(2)
C(5C)	35(3)	50(3)	40(3)	0(2)	3(2)	-12(3)
C(6C)	48(4)	57(3)	29(3)	-7(2)	1(2)	-2(3)
C(7C)	30(3)	59(3)	22(2)	-1(2)	5(2)	-5(2)
C(8C)	22(3)	50(3)	21(2)	4(2)	7(2)	-2(2)
C(9C)	30(3)	58(3)	18(2)	-2(2)	8(2)	-4(2)
C(10C)	22(3)	58(3)	30(2)	-4(2)	6(2)	3(2)
C(11C)	28(3)	56(3)	19(2)	-5(2)	9(2)	2(2)
C(1RC)	24(3)	53(3)	25(2)	4(2)	4(2)	-7(2)
C(2RC)	14(3)	82(4)	49(3)	14(3)	7(2)	9(3)
C(3RC)	56(8)	60(8)	92(9)	-29(6)	44(7)	19(7)
C(4RC)	79(9)	83(8)	45(6)	20(5)	17(5)	31(6)
C(5RC)	106(16)	126(15)	240(20)	85(16)	25(16)	23(13)
C(6RC)	240(30)	125(16)	160(20)	-13(15)	90(20)	28(18)
C(3RD)	27(10)	62(12)	90(13)	12(10)	39(9)	18(8)
C(4RD)	350(60)	910(150)	940(140)	-880(140)	510(80)	-510(80)
C(5RD)	760(130)	720(120)	110(30)	120(50)	110(50)	80(110)
C(6RD)	83(18)	99(16)	88(14)	-15(12)	22(13)	47(14)
C(7RC)	195(12)	157(9)	67(5)	32(6)	-12(6)	62(9)

Table 5. Hydrogen coordinates [x 10^4] and isotropic displacement parameters [$Å^2$ x10^3] for L_5.

	x	y	z	U(eq)
H(17A)	7533	-1436	5933	57(15)
H(17B)	8019	-1714	5254	29(12)
H(34A)	7434	-1015	4803	57(17)
H(34B)	8317	-773	5461	24(11)
H(46A)	7829	-407	4163	67(18)
H(44A)	8391	165	3362	62(17)
H(50A)	10573	206	2963	52(15)
H(41A)	12176	-301	3421	55(16)
H(37A)	11944	-1077	4848	36(13)
H(37B)	11734	-1328	4072	30(12)
H(35A)	14269	-817	3216	38(13)
H(35B)	13037	-1140	3091	29(13)
H(45A)	15222	-1503	3022	100(20)
H(45B)	15446	-1433	3895	31(12)
H(38A)	13618	-223	5338	43(14)
H(38B)	13111	-717	5509	37(13)
H(52A)	15839	-453	5753	100(20)
H(52B)	15254	-925	5981	43(14)
H(47A)	14570	-92	6645	27(11)
H(47B)	14003	-566	6877	62(17)
H(49A)	16777	-340	7049	73(19)
H(49B)	16161	-797	7319	74(19)
H(57A)	15567	56	7943	150(40)
H(57B)	15047	-412	8233	510(150)
H(62A)	16850	-216	9039	320(100)
H(62B)	17750	-108	8373	180(50)
H(62C)	17370	-613	8547	90(30)
H(19A)	9278	-1101	6825	110(30)
H(19B)	10097	-918	6170	22(11)
H(25A)	11560	-986	7199	31(12)
H(25B)	11103	-1490	7330	36(13)
H(27A)	13451	-1326	7825	58(16)
H(29A)	15464	-1642	8262	120(30)
H(48A)	16628	-2126	7535	49(16)
H(28A)	15775	-2278	6323	44(14)
H(26A)	12528	-2105	5608	25(11)
H(26B)	13433	-1730	5273	36(13)
H(33A)	16101	-2382	4921	21(11)
H(33B)	15507	-1887	4885	34(13)
H(30A)	15870	-2219	3689	24(11)
H(30B)	14663	-2548	3814	24(11)

Contd.

H(36A)	13079	-2851	6256	73(19)
H(36B)	12032	-2831	5551	49(16)
H(39A)	13612	-3603	5859	42(14)
H(39B)	12224	-3540	6213	100(20)
H(55A)	12508	-3603	4671	33(12)
H(55B)	11119	-3537	5023	41(14)
H(58A)	12287	-4359	5526	170(40)
H(56A)	10837	-4720	4640	120(30)
H(56B)	10021	-4263	4551	2000(1100)
H(63A)	10875	-4522	3454	140(40)
H(63B)	12332	-4416	3824	120(40)
H(63C)	11287	-4020	3667	160(40)
H(22A)	8888	-1946	6845	80(20)
H(22B)	10362	-2060	6645	38(14)
H(12A)	9075	-2663	6281	15(10)
H(12B)	7976	-2353	5851	54(17)
H(42A)	8025	-3117	5362	130(30)
H(54A)	7442	-3611	4396	46(14)
H(53A)	8442	-3535	3274	43(14)
H(24A)	9842	-2928	3095	56(15)
H(21A)	10287	-1984	4214	42(13)
H(21B)	11573	-2293	4355	36(14)
H(14A)	12018	-2558	2547	43(14)
H(14B)	12571	-2633	3386	24(11)
H(31A)	14103	-2246	2640	46(14)
H(31B)	13095	-1833	2594	21(10)
H(3RA)	8200	-1729	1903	81
H(3RB)	7261	-1470	2435	81
H(4RA)	8702	-834	2499	82
H(4RB)	9825	-1099	2099	82
H(5RA)	8800	-661	1142	189
H(5RB)	8167	-1145	985	189
H(6RA)	6840	-442	1772	203
H(6RB)	6207	-927	1616	203
H(3RC)	8914	-1149	2344	69
H(3RD)	7694	-1173	2859	69
H(4RC)	7927	-1693	1515	853
H(4RD)	6844	-1824	2079	853
H(5RC)	5658	-1359	1202	628
H(5RD)	5940	-1044	1909	628
H(6RC)	7634	-1043	670	107
H(6RD)	7838	-713	1364	107

Table 7. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [$Å^2$ x 10^3] for L_6. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
O(1)	4839(1)	2232(1)	6930(1)	39(1)
O(2)	6094(2)	232(1)	10678(2)	58(1)
N(1)	6667	3333	11274(3)	37(1)
N(2)	6667	3333	5760(3)	40(1)
N(3)	5686(2)	1326(2)	9856(2)	38(1)
C(1)	6238(2)	2277(2)	11691(2)	41(1)
C(2)	5351(2)	1493(2)	10980(2)	41(1)
C(3)	6038(2)	662(2)	9806(2)	45(1)
C(4A)	6355(2)	467(2)	8652(2)	57(1)
C(4B)	7052(4)	27(4)	8728(4)	91(1)
C(4C)	8041(4)	622(4)	9303(5)	82(2)
C(4D)	8627(4)	74(5)	9382(7)	155(3)
C(4E)	7703(17)	142(17)	7845(16)	67(5)
C(4F)	8635(11)	91(12)	7890(14)	67(5)
C(5)	5434(2)	1731(2)	8861(2)	38(1)
C(6)	4405(2)	996(2)	8331(2)	36(1)
C(7)	3726(2)	59(2)	8792(2)	48(1)
C(8)	2796(2)	-584(2)	8275(2)	55(1)
C(9)	2547(2)	-285(2)	7272(2)	53(1)
C(10)	3214(2)	651(2)	6782(2)	44(1)
C(11)	4133(2)	1280(2)	7320(2)	36(1)
C(12)	4772(2)	2458(2)	5759(2)	44(1)
C(13)	5758(2)	3382(2)	5438(2)	44(1)

Table 8. Bond lengths [Å] and bond angles [°] for L_6.

O(1) – C(11)	1.373 (3)	O(1) – C(12)	1.431(3)
O(2) – C(3)	1.238 (3)	N(1) – C(1)	1.475 (3)
N(1) – C(1) #1	1.475 (3)	N(1) – C(1) #2	1.475 (3)
N(2) – C(13) #1	1.462 (3)	N(2) – C(13) #2	1.462 (3)
N(2) – C(13)	1.462 (3)	N(3) – C(3)	1.352 (3)
N(3) – C(5)	1.454 (3)	N(3) – C(2)	1.479 (3)
C(1) – C(2)	1.520 (3)	C(3) – C(4A)	1.514 (4)
C(4A) – C(4B)	1.503 (5)	C(4B) – C(4E)	1.380 (2)
C(4B) – C(4C)	1.469 (6)	C(4C) – C(4D)	1.487 (6)
C(4E) – C(4F)	1.450 (2)	C(5) – C(6)	1.521 (3)
C(6) – C(7)	1.378 (3)	C(6) – C(11)	1.391 (3)
C(7) – C(8)	1.387 (4)	C(8) – C(9)	1.378 (4)
C(9) – C(10)	1.387 (4)	C(10) – C(11)	1.382 (3)
C(12) – C(13)	1.494 (3)		
C(11) – O(1) – C(12)	117.34 (19)	C(1) – N(1) – C(1) #1	109.54 (15)
C(1) – N(1) – C(1) #2	109.54 (15)	C(1) #1 – N(1) – C(1) #2	109.54 (15)
C(13) #1 – N(2) – C(13)#2	113.56 (13)	C(13) #1 – N(2) – C(13)	113.56 (13)
C(13) #2 – N(2) – C(13)	113.56 (13)	C(3) – N(3) – C(5)	124.1 (2)
C(3) – N(3) – C(2)	117.5 (2)	C(5) – N(3) – C(2)	117.3 (2)
N(1) – C(1) – C(2)	113.6 (2)	N(3) – C(2) – C(1)	121.7 (3)
O(2) – C(3) – N(3)	120.7 (2)	O(2) – C(3) – C(4A)	121.7 (3)
N(3) – C(3) – C(4A)	117.6 (2)	C(4B) – C(4A) – C(3)	113.2 (3)
C(4E) – C(4B) – C(4C)	79.8 (9)	C(4E) – C(4B) – C(4A)	120.9 (9)
C(4C) – C(4B) – C(4A)	118.7 (4)	C(4B) – C(4C) – C(4D)	113.3 (5)
C(4B) – C(4E) – C(4F)	128.1 (17)	N(3) – C(5) – C(6)	114.1 (2)
C(7) – C(6) – C(11)	117.9 (2)	C(7) – C(6) – C(5)	123.6 (2)
C(11) – C(6) – C(5)	118.4 (2)	C(6) – C(7) – C(8)	121.4 (3)
C(9) – C(8) – C(7)	119.4 (3)	C(8) – C(9) – C(10)	120.7 (3)
C(11) – C(10) – C(9)	118.7 (3)	O(1) – C(11) – C(10)	123.8 (2)
O(1) – C(11) – C(6)	114.3 (2)	C(10) – C(11) – C(6)	121.8 (3)
O(1) – C(12) – C(13)	108.0 (2)	N(2) – C(13) – C(12)	114.3 (2)

Symmetry transformations used to generate equivalent atoms:
#1 -y+1, x-y, z #2 -x+y+1, -x+1, z

Table 9. Anisotropic displacement parameters [$Å^2 \times 10^3$] for $\mathbf{L_6}$. The anisotropic displacement factor exponent takes the form: $-2\pi^2 [(ha^*)^2 U_{11} + \ldots\ldots + 2hka^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
O(1)	46(1)	37(1)	32(1)	1(1)	-3(1)	19(1)
O(2)	76(2)	55(1)	53(1)	12(1)	3(1)	40(1)
N(1)	39(1)	39(1)	31(2)	0	0	20(1)
N(2)	40(2)	40(2)	40(2)	0	0	20(1)
N(3)	42(1)	36(1)	35(1)	2(1)	-4(1)	19(1)
C(1)	50(2)	47(2)	30(1)	4(1)	-1(1)	26(2)
C(2)	38(2)	42(2)	39(1)	9(1)	4(1)	18(2)
C(3)	47(2)	39(2)	45(2)	5(1)	-2(1)	18(2)
C(4A)	67(2)	51(2)	57(2)	-7(2)	2(2)	32(2)
C(4B)	119(4)	104(4)	89(3)	43(3)	53(3)	85(4)
C(4C)	70(4)	78(4)	113(4)	27(3)	25(3)	48(3)
C(4D)	88(4)	119(5)	273(10)	52(6)	33(5)	63(4)
C(5)	41(2)	34(2)	38(1)	5(1)	1(1)	17(1)
C(6)	33(2)	38(2)	35(1)	1(1)	1(1)	16(1)
C(7)	41(2)	50(2)	44(2)	6(2)	-3(1)	17(2)
C(8)	37(2)	53(2)	53(2)	6(2)	0(2)	7(2)
C(9)	32(2)	58(2)	57(2)	-1(2)	-7(2)	13(2)
C(10)	43(2)	52(2)	41(2)	0(1)	-3(1)	26(2)
C(11)	35(2)	34(2)	38(1)	-5(1)	-1(1)	17(2)
C(12)	42(2)	49(2)	38(2)	0(1)	-9(1)	21(2)
C(13)	47(2)	50(2)	33(1)	10(1)	-1(1)	23(2)

Table 10. Hydrogen coordinates [x 10^4] and isotropic displacement parameters [$Å^2$x 10^3] for L_6.

	x	y	z	U(eq)
H(1A)	6003	2242	12486	53(8)
H(1B)	6785	2099	11697	38(7)
H(2A)	5002	838	11399	39(6)
H(2B)	4852	1728	10866	44(7)
H(4AA)	5735	-10	8219	97(11)
H(4AB)	6730(20)	-660(30)	9170(30)	67(12)
H(4BB)	7200(30)	-180(30)	7890(40)	57(12)
H(4CA)	7925	796	10081	77(14)
H(4CB)	8455	1270	8883	160(20)
H(4DA)	9236	471	9853	232
H(4DB)	8834	-11	8617	232
H(4DC)	8197	-598	9728	232
H(4EA)	7905	817	7507	80
H(4EB)	7270	-370	7268	80
H(4FA)	8909	157	7118	10(20)
H(4FB)	8486	-567	8215	0(20)
H(4FC)	9138	647	8368	90(60)
H(5A)	5973	1917	8280	36(7)
H(5B)	5435	2364	9083	38(7)
H(7A)	3899	-151	9479	42(7)
H(8A)	2334	-1224	8609	76(10)
H(9A)	1913	-725	6913	39(7)
H(10A)	3042	857	6091	40(7)
H(12A)	4199	2590	5653	51(8)
H(12B)	4649	1872	5273	59(9)
H(13A)	5766	3478	4603	49(7)
H(13B)	5790	3987	5804	64(9)