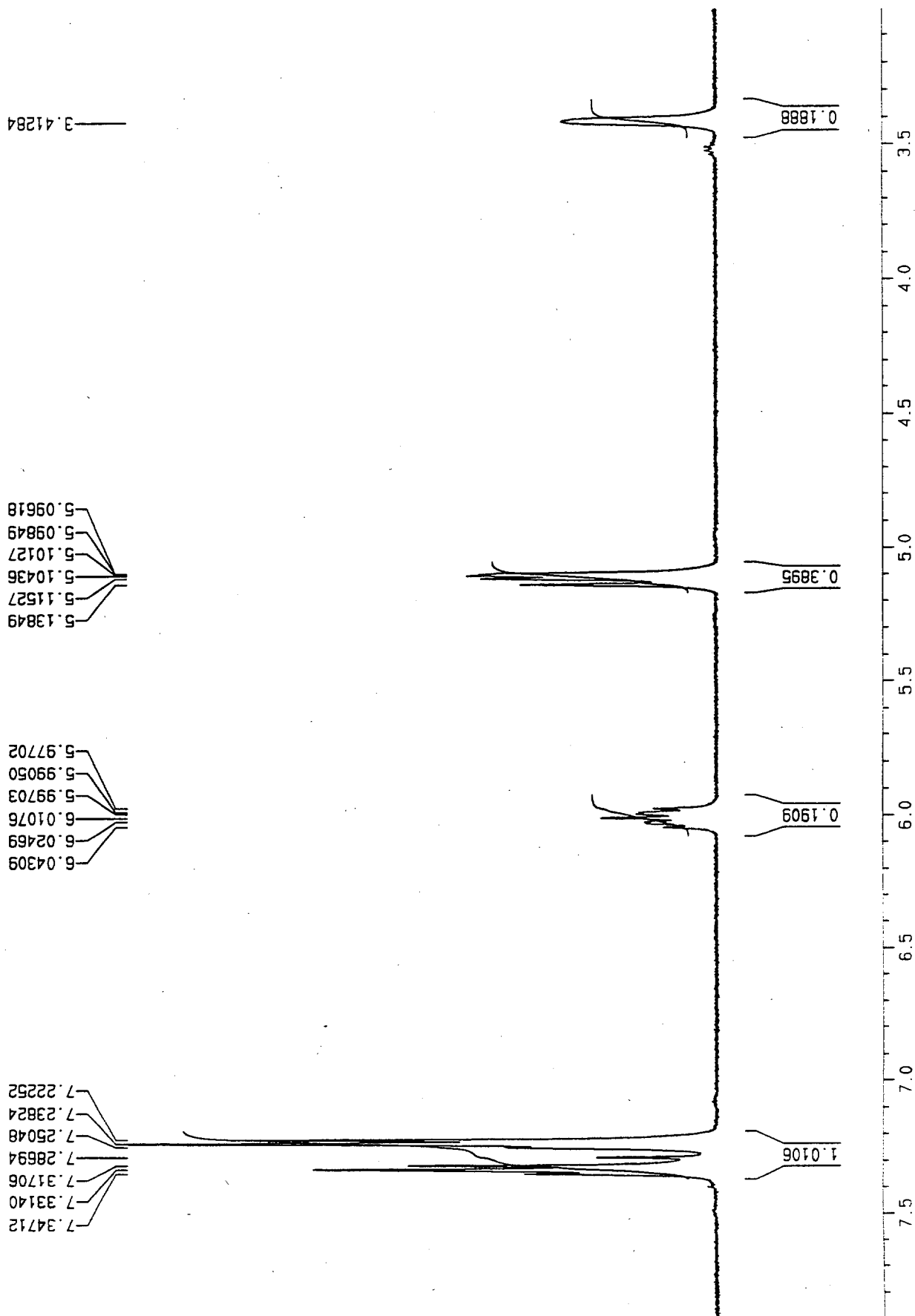
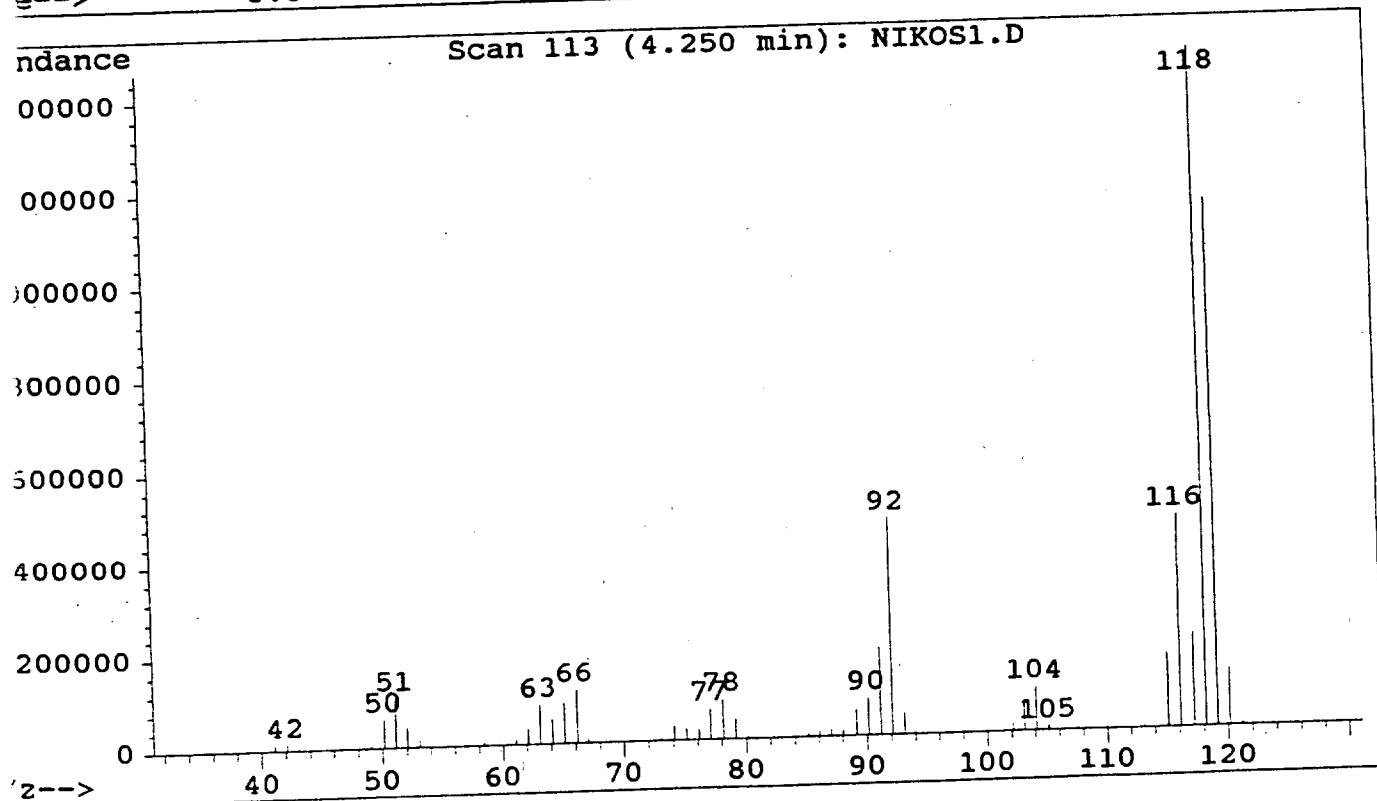
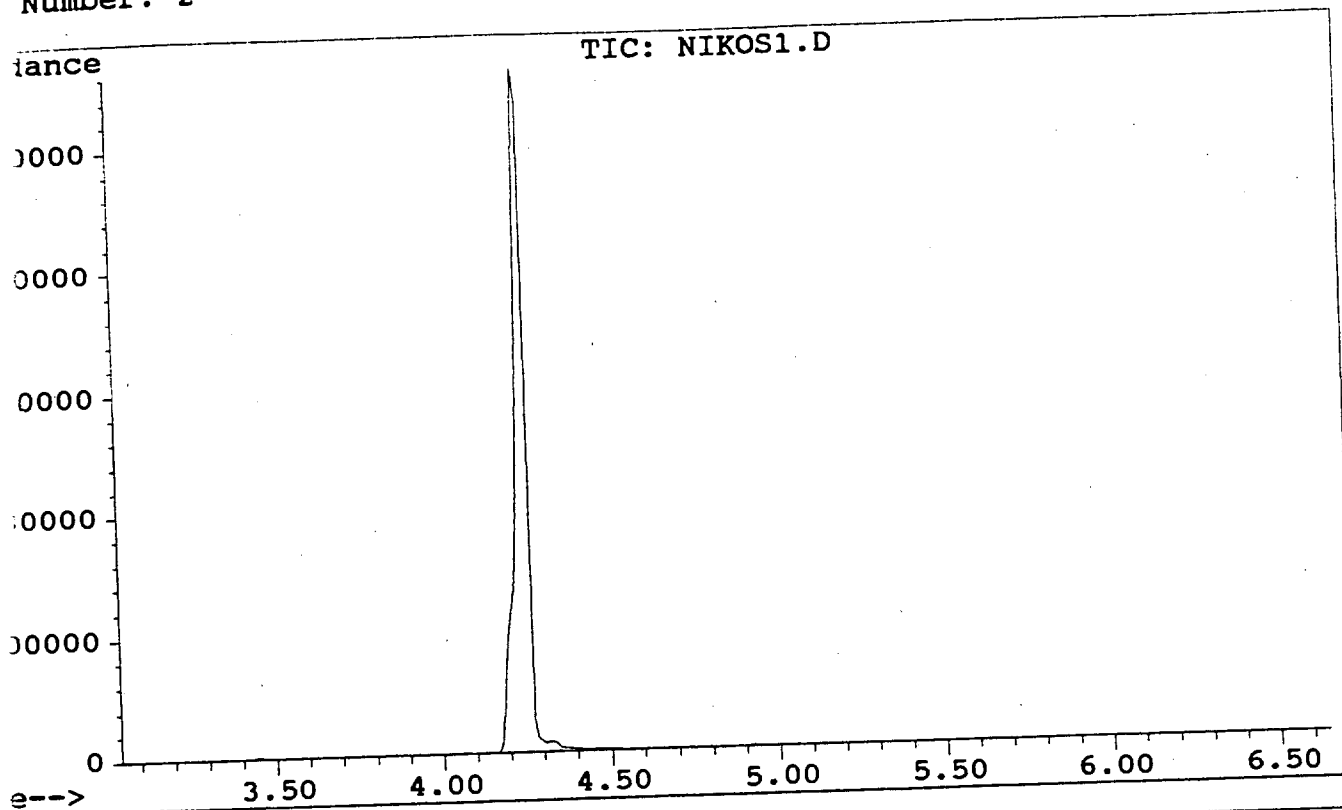


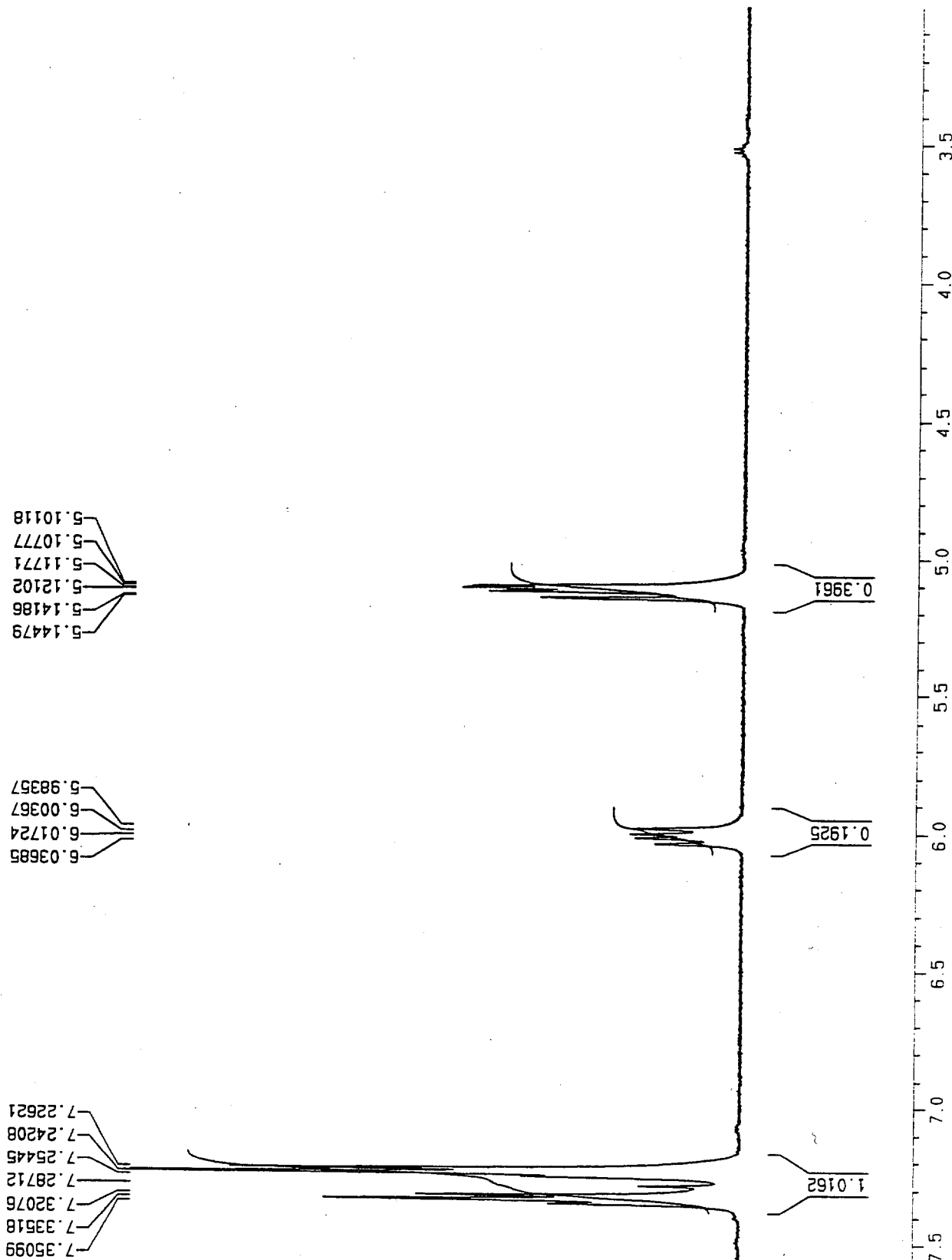
S1
1H-NMR (500 MHz) of 1-d1



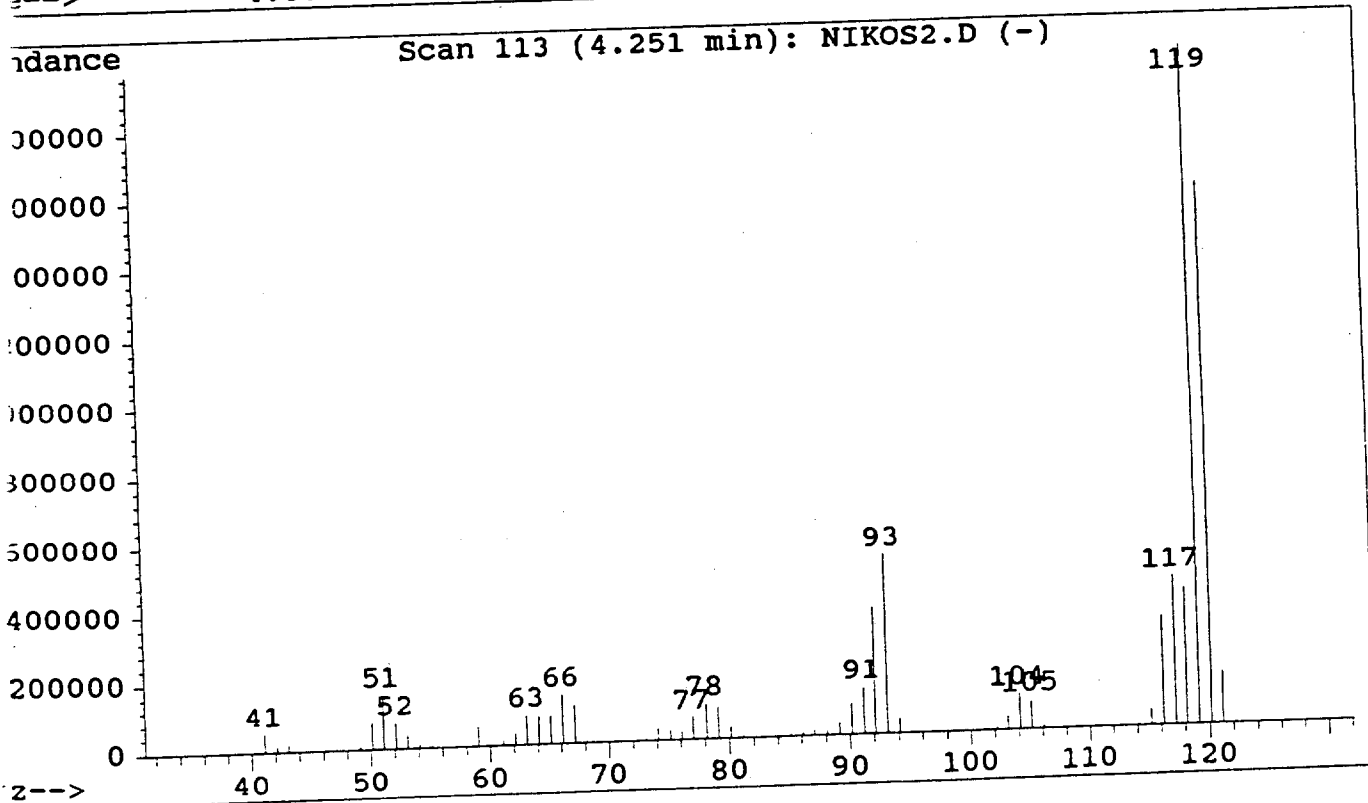
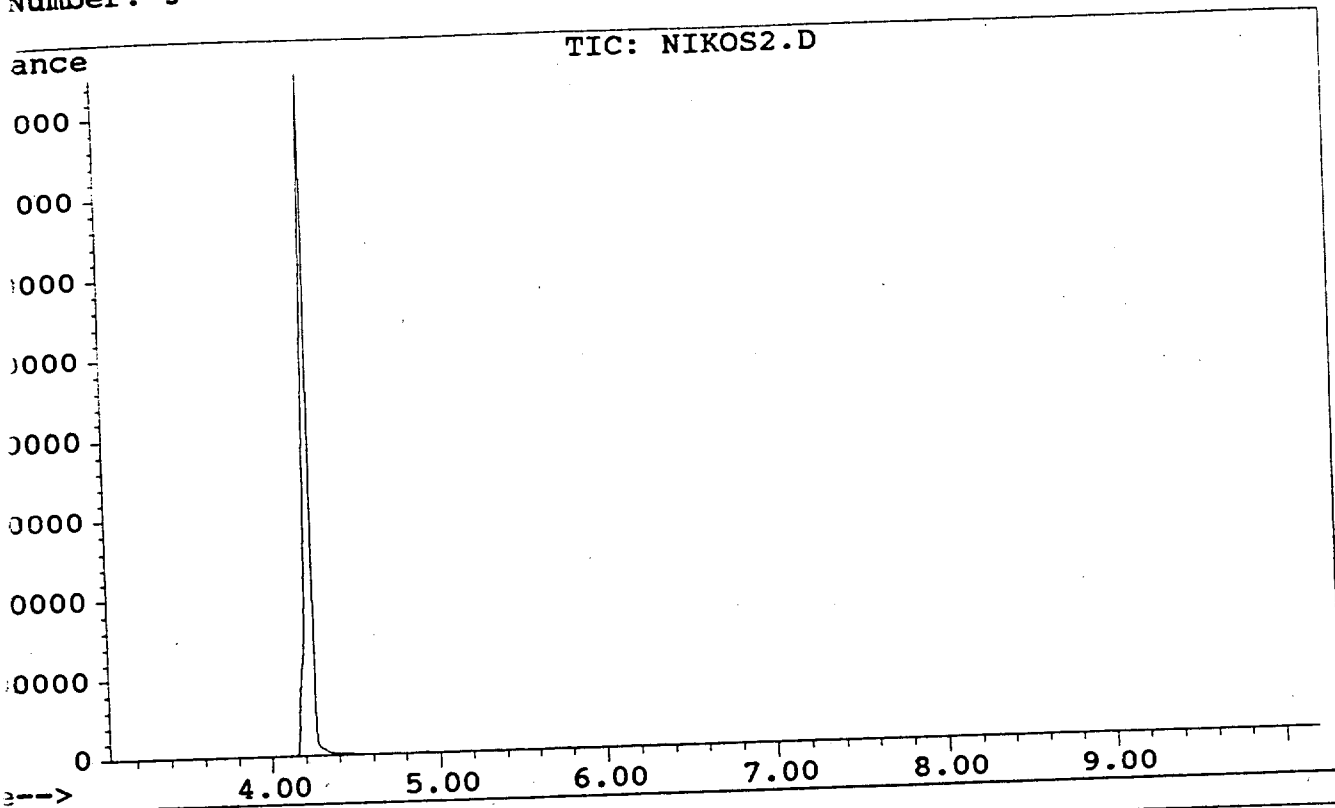
Path: C:\ELIAS\NIKOS1.D
Operator: IGK
Acquired: 19 Sep 97 7:00 pm using AcqMethod ORGCHEAS.M
Sample: Mass Spec
Sample Name:
Sample Info:
Sample Number: 2



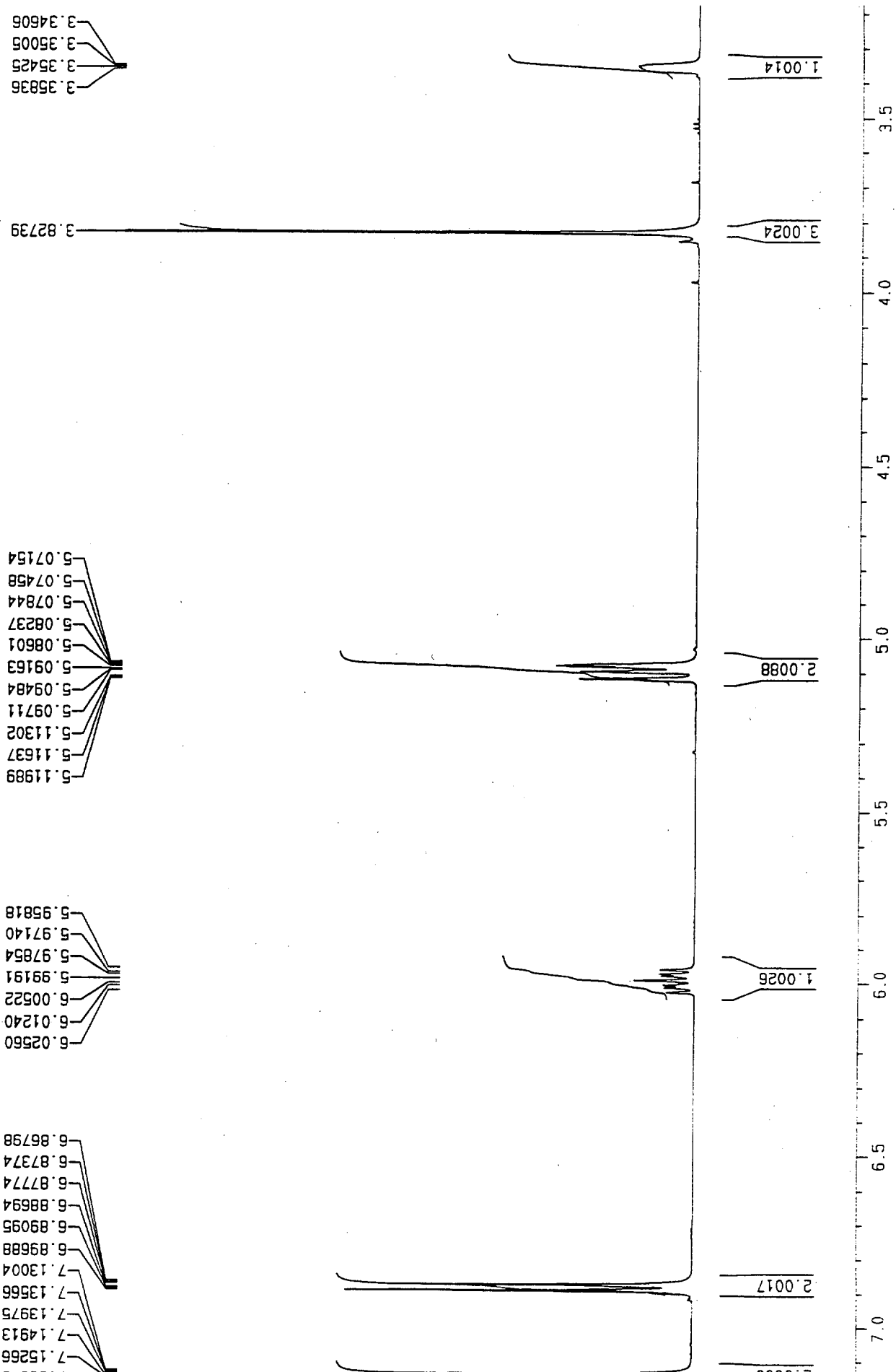
S3
¹H-NMR (500 MHz) of 1-d₂



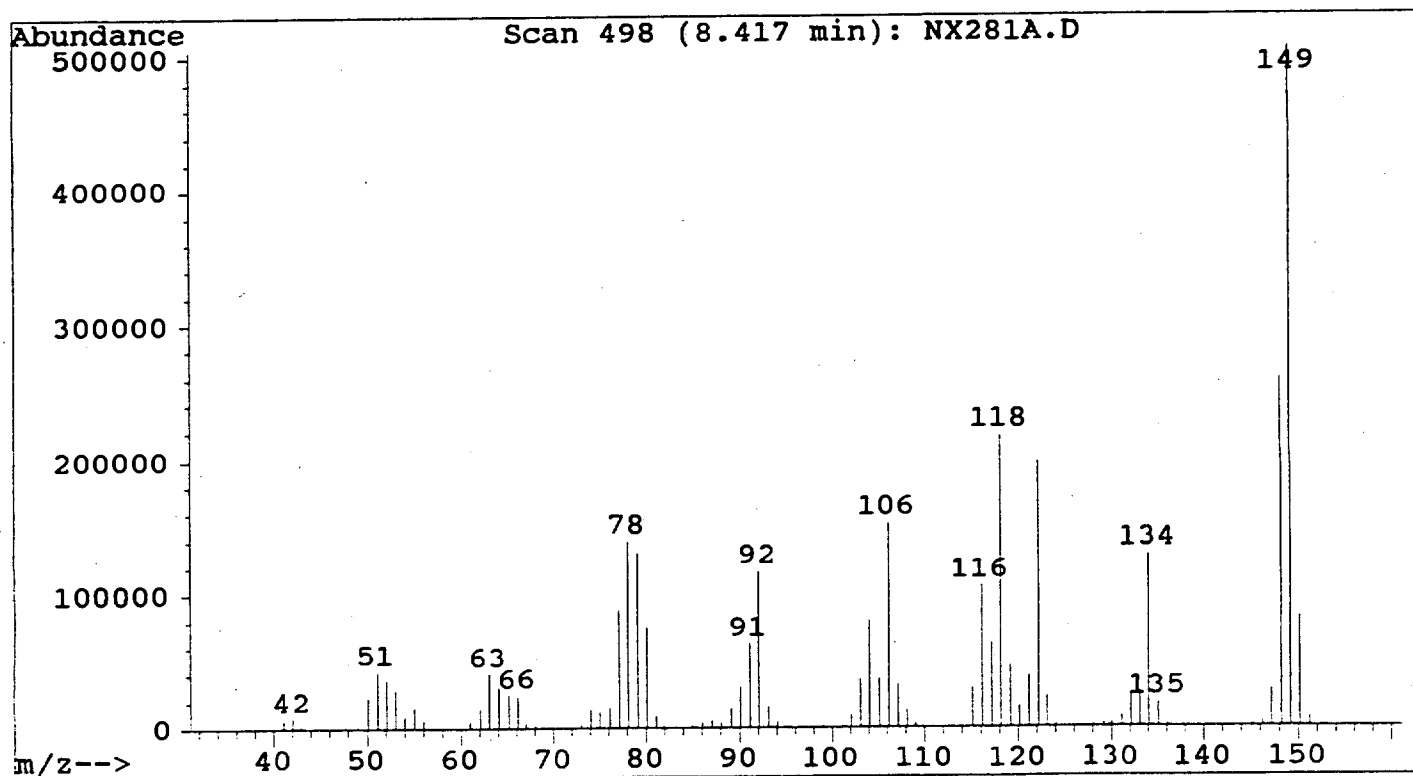
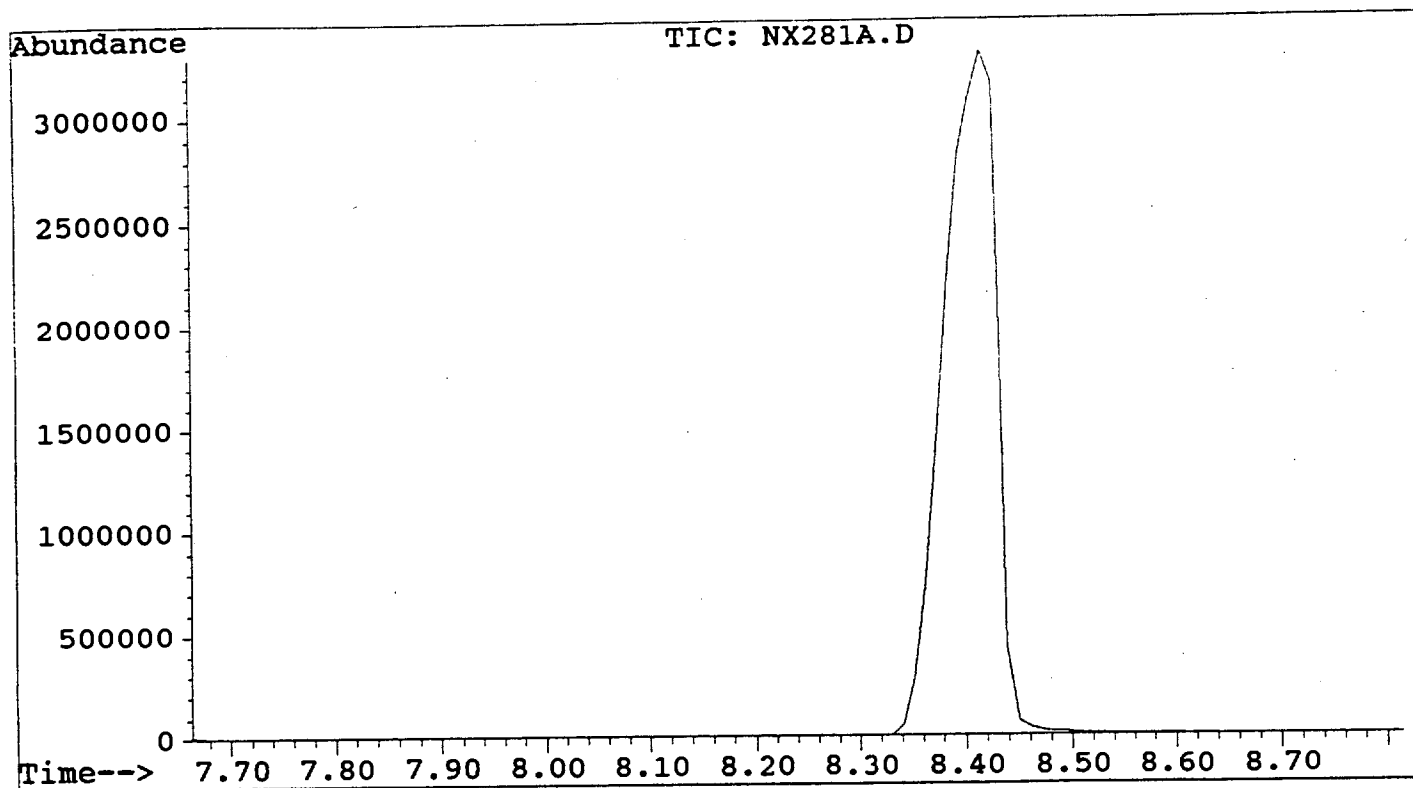
: C:\ELIAS\NIKOS2.D
or : IGK
ed : 19 Sep 97 7:41 pm using AcqMethod ORGCHEAS.M
ment : Mass Spec
e Name:
Info :
Number: 3



S5
¹H-NMR (500 MHz) of 2-d₁

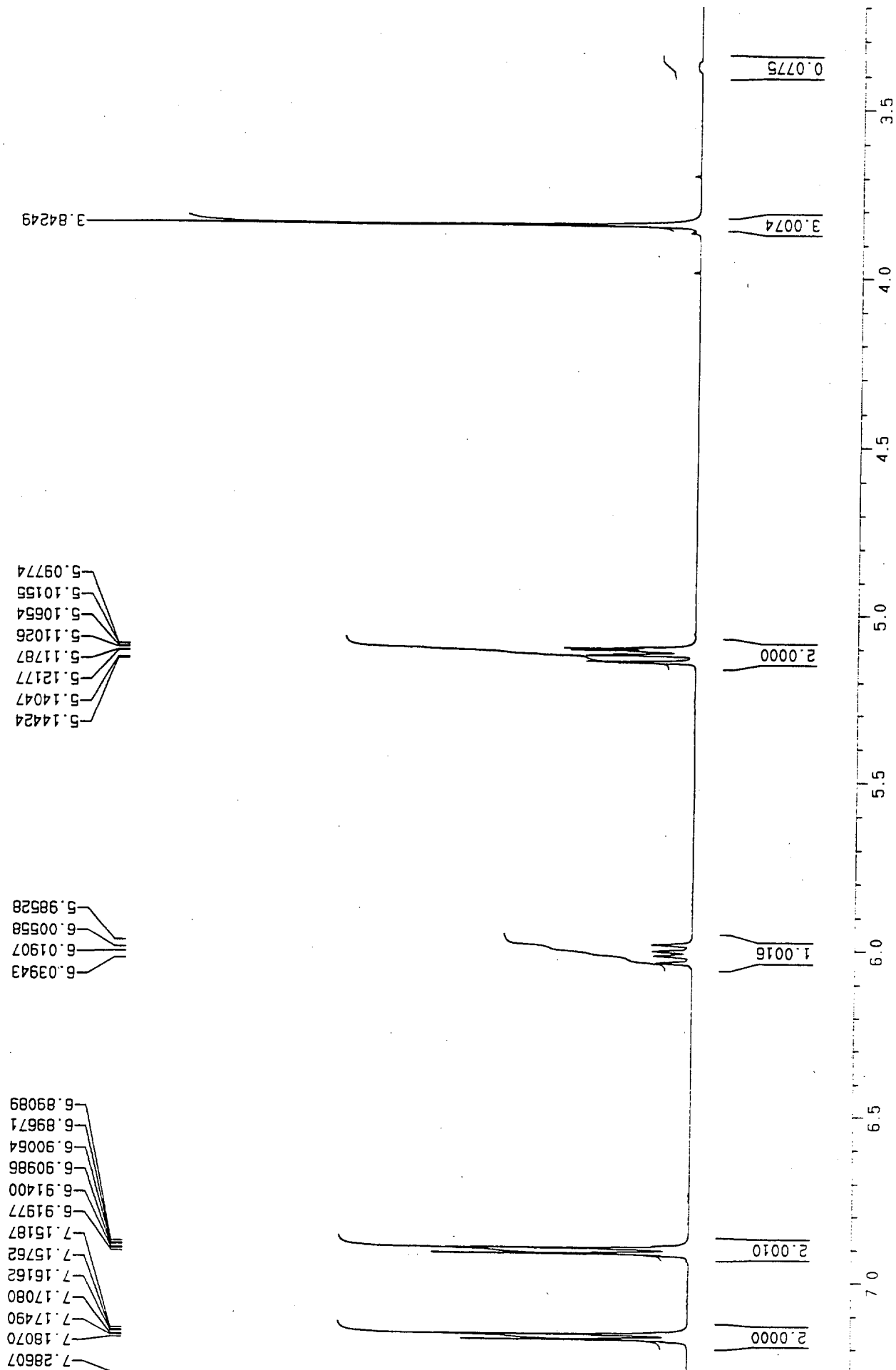


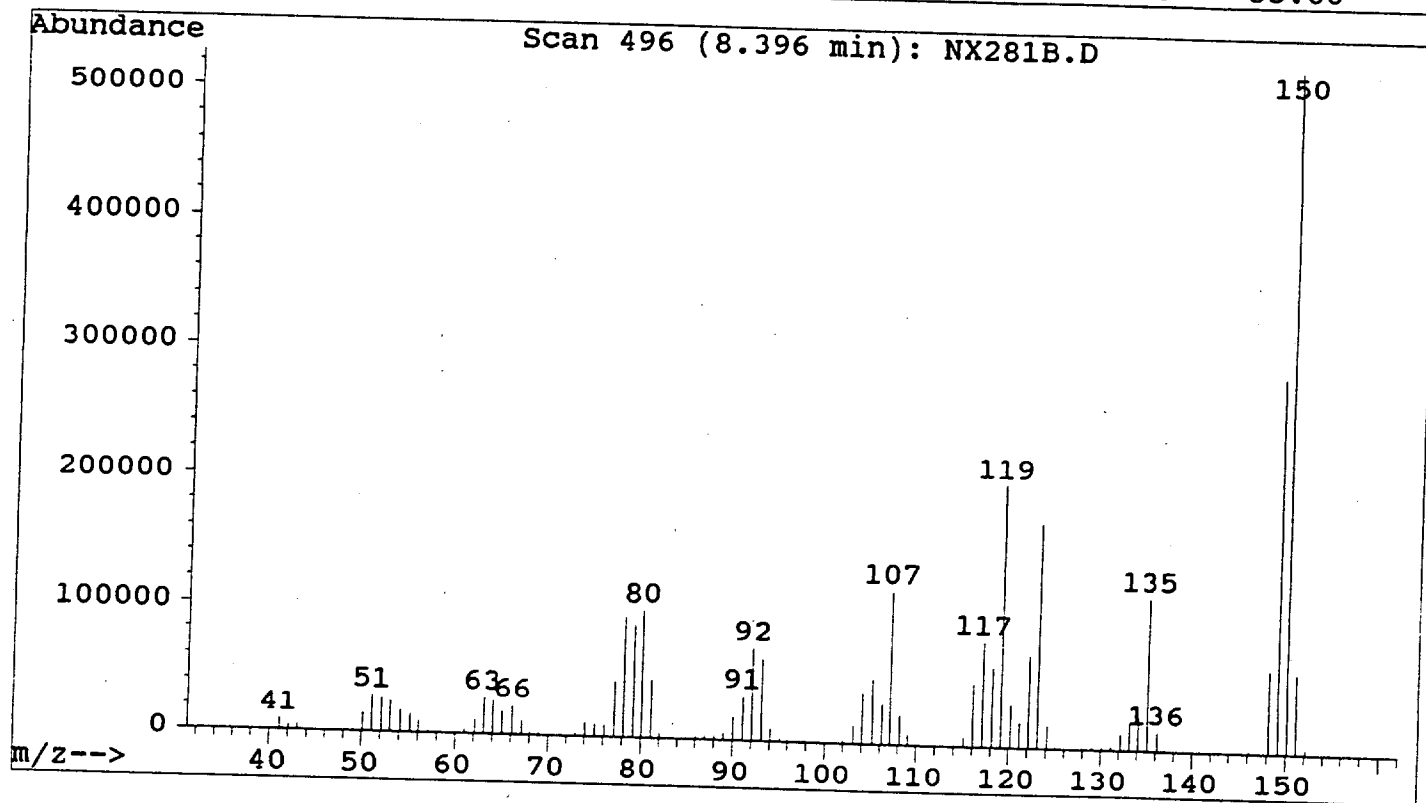
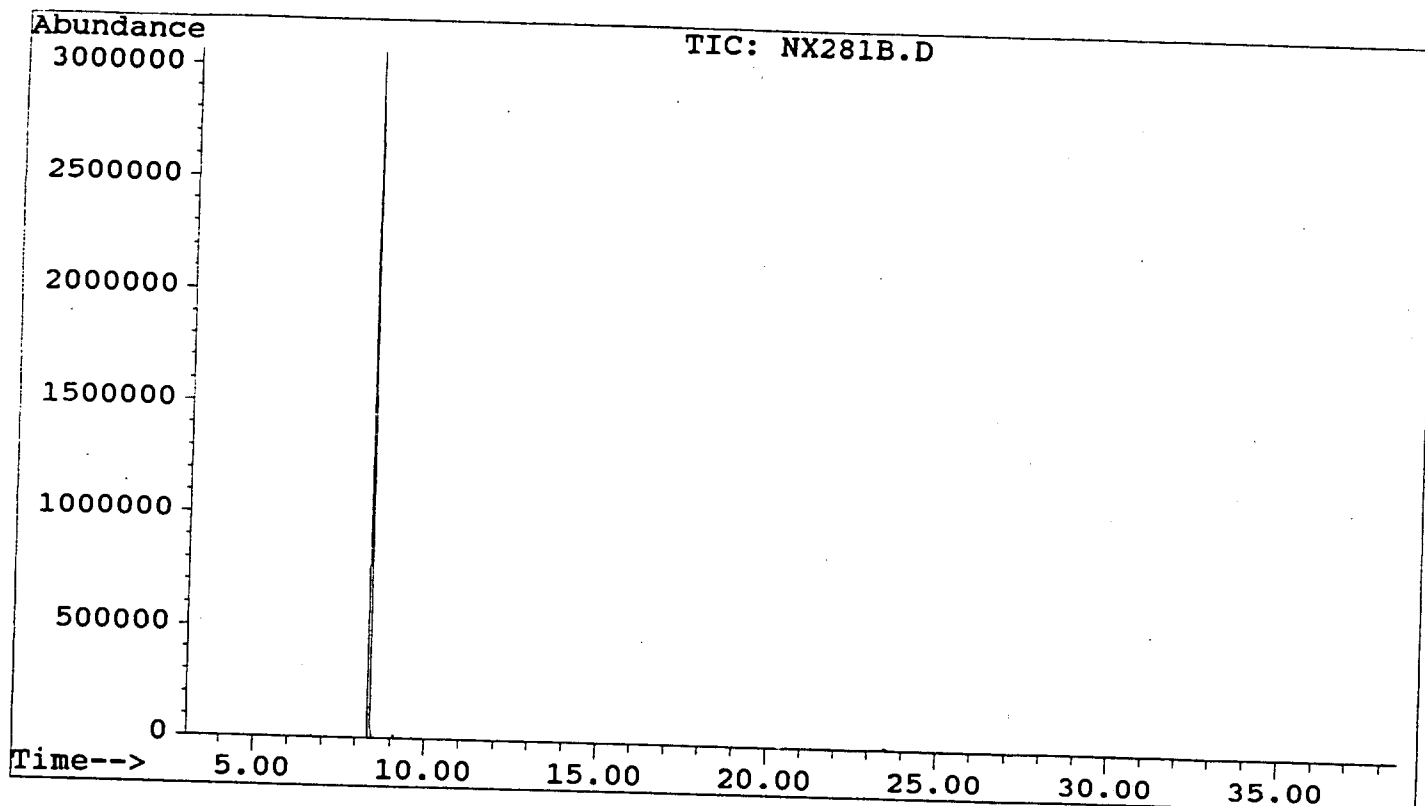
File : C:\HPCHEM\1\DATA\NX281A.D
Operator :
Acquired : 28 Jan 98 3:29 pm using AcqMethod ORGCHEM.M
Instrument : Mass Spec
Sample Name :
Misc Info :
Vial Number: 1



S7

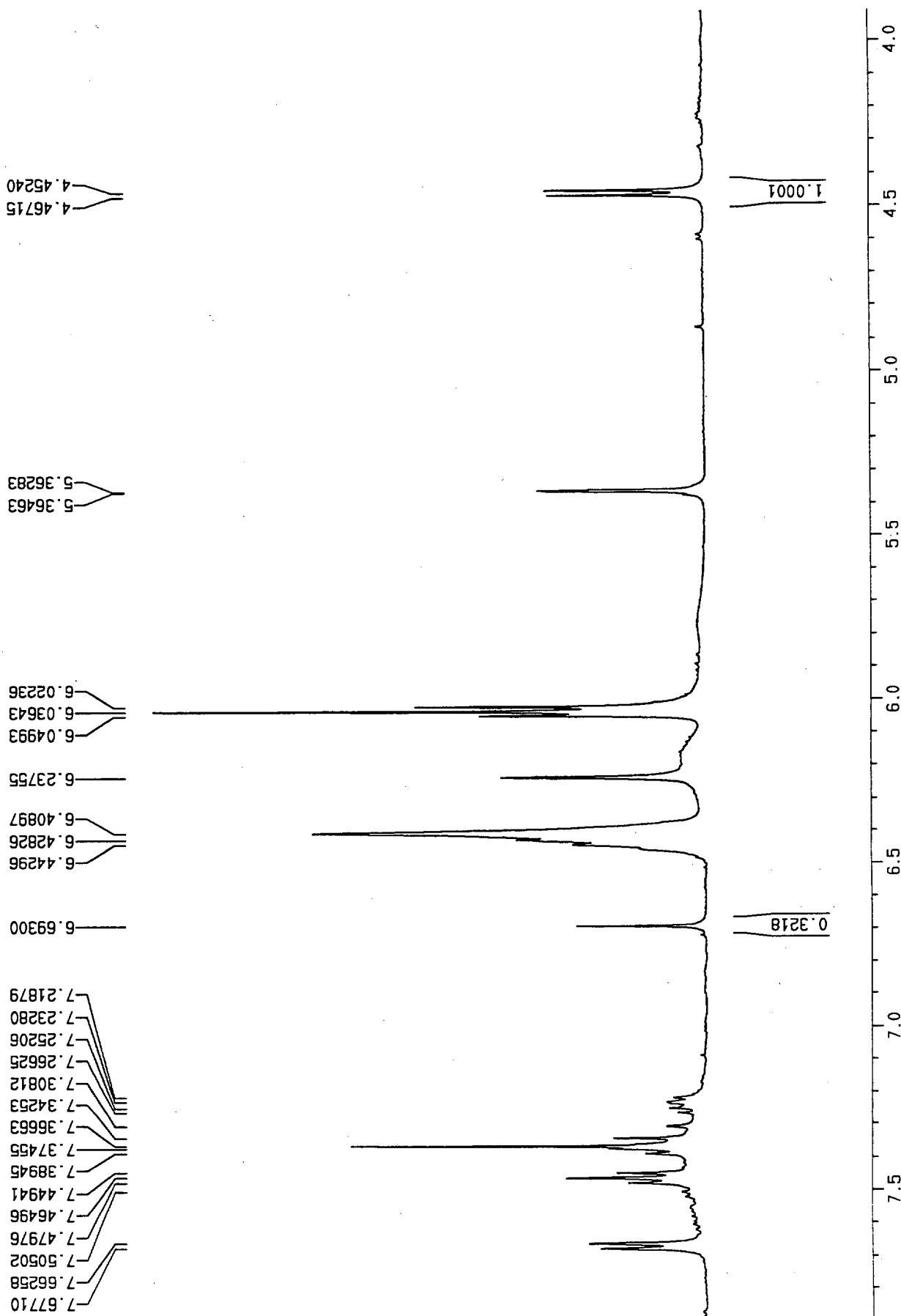
¹H-NMR (500 MHz) of **d₂**



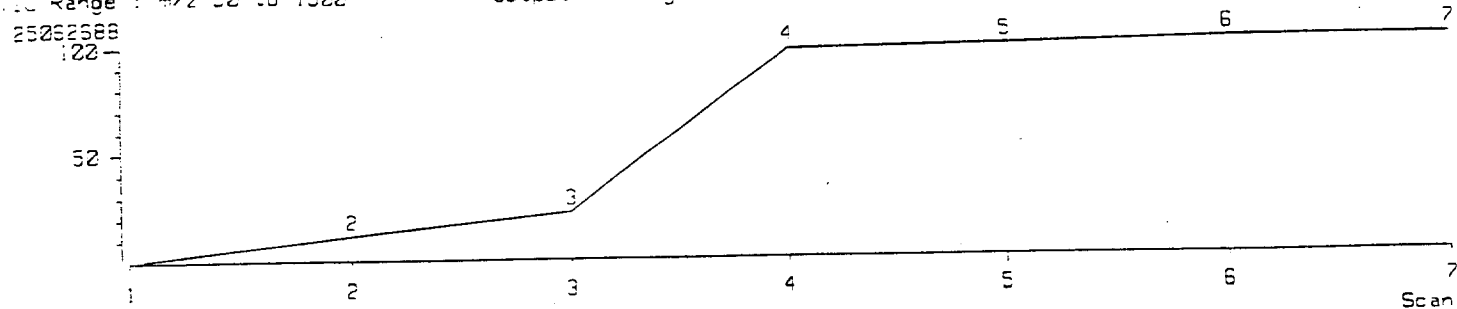


S9

¹H-NMR (500 MHz, CS₂-CD₂Cl₂) of the adducts from the reaction of C60 with 1-c



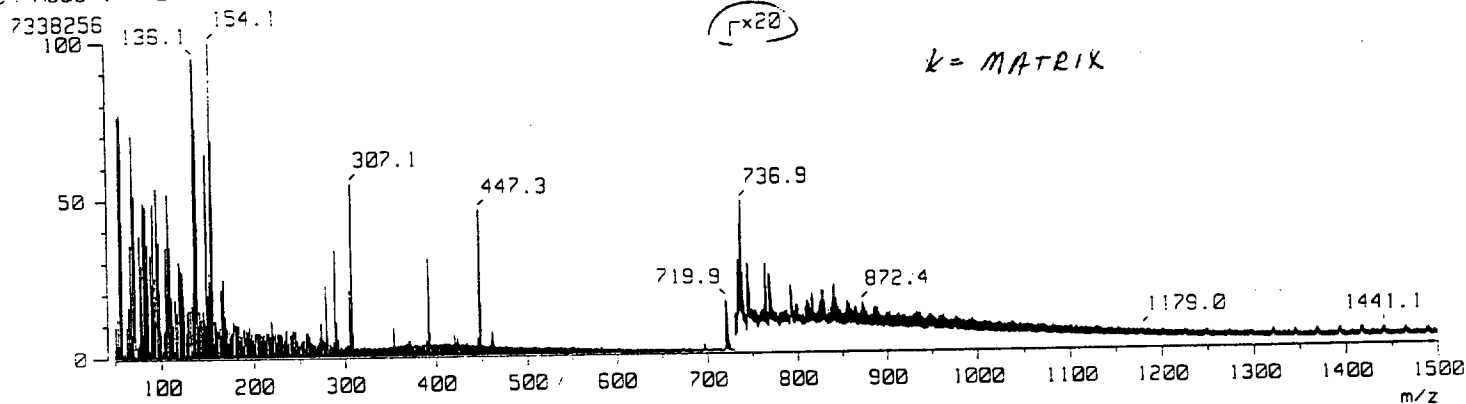
Sample: Spiros/Karadatsos sample #3
 Note: in CH₂Cl₂ + toluene (NBA + FAB) (4022)
 Inlet: Direct Ion Mode: FAB+
 Ion Species: Normal Ion [MF-Linear]
 TIC Range: m/z 52 to 1522 Output RT Range: 2.00 to 2.17 min



[Mass Spectrum]

RT: 1.29 min Scan#: (1,7)
 Ion Mode: FAB+ Int.: 99.98

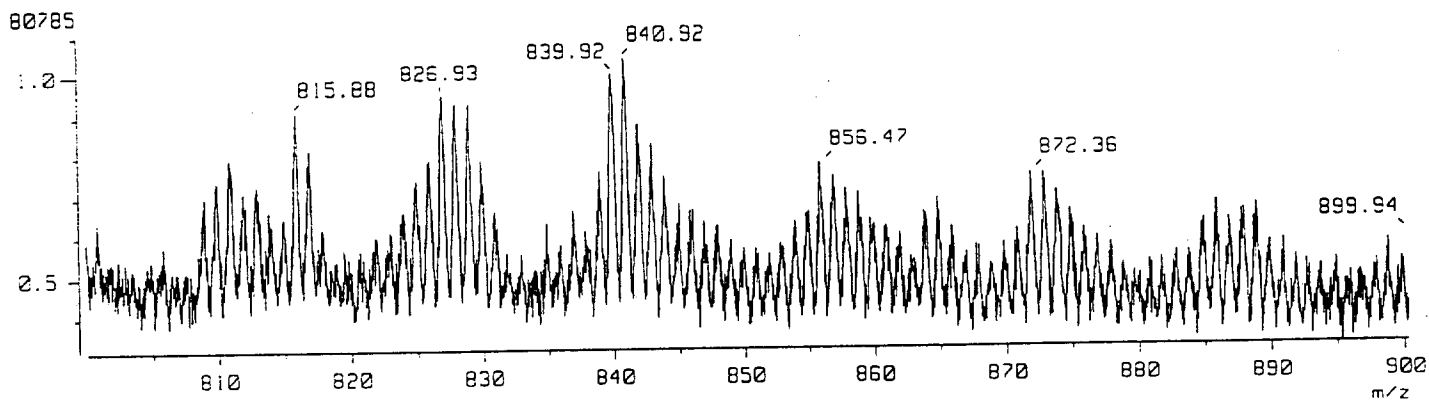
Temp: 0.3 deg.C



[Mass Spectrum]

RT: 1.09 min Scan#: (1,7)
 Ion Mode: FAB+ Int.: 99.98

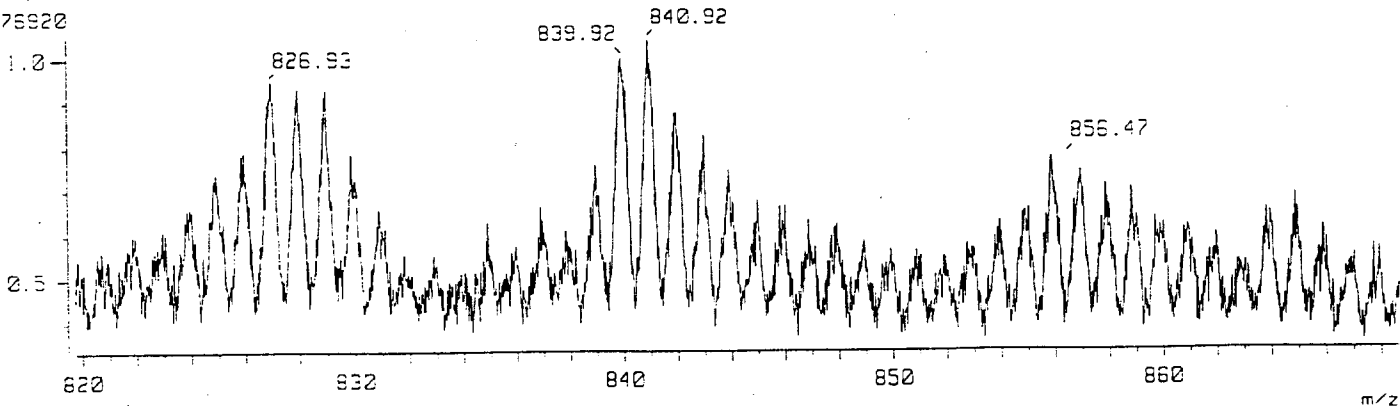
Temp: 0.3 deg.C



[Mass Spectrum]

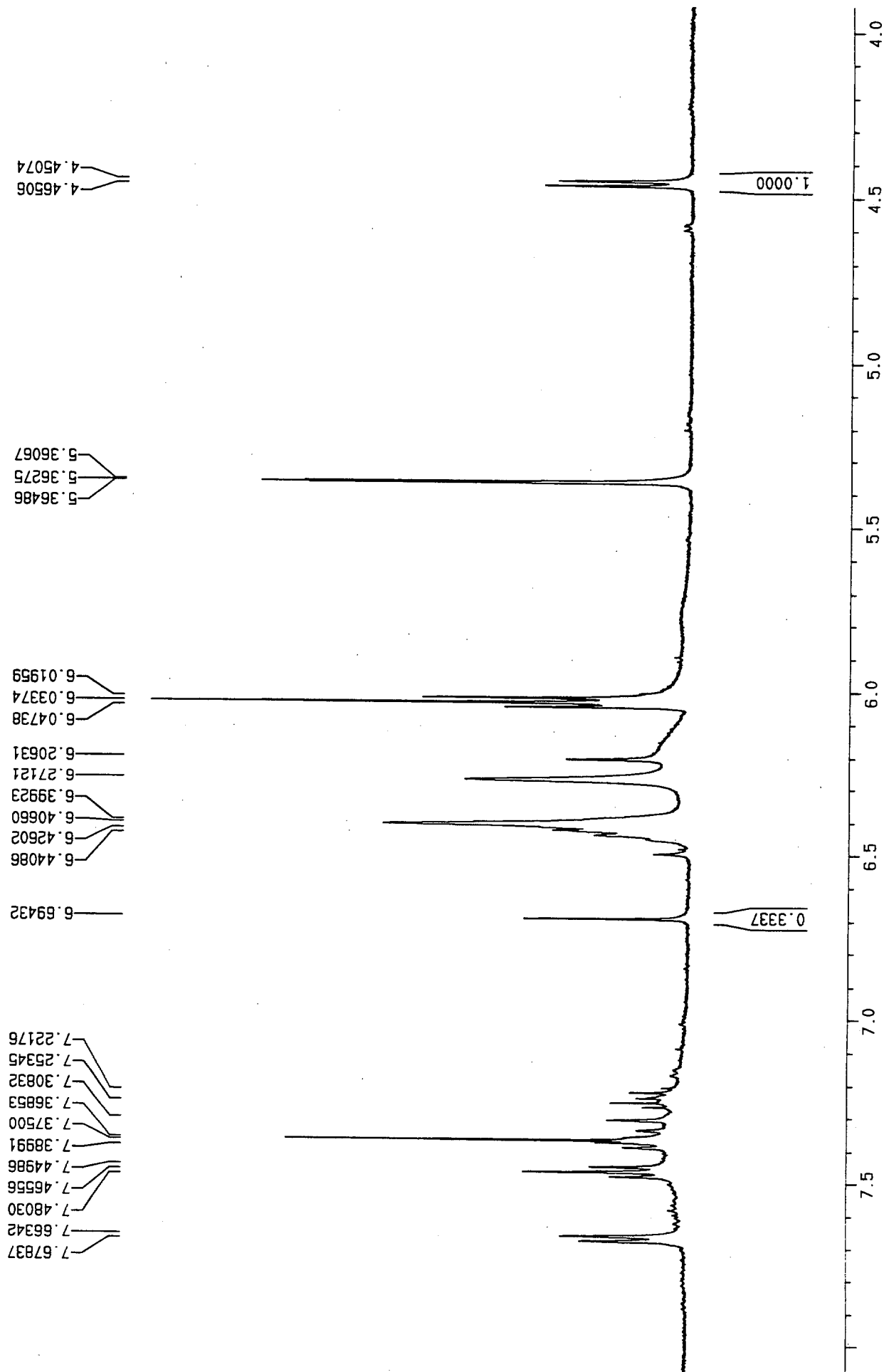
RT: 1.09 min Scan#: (1,7)
 Ion Mode: FAB+ Int.: 99.98

Temp: 0.3 deg.C

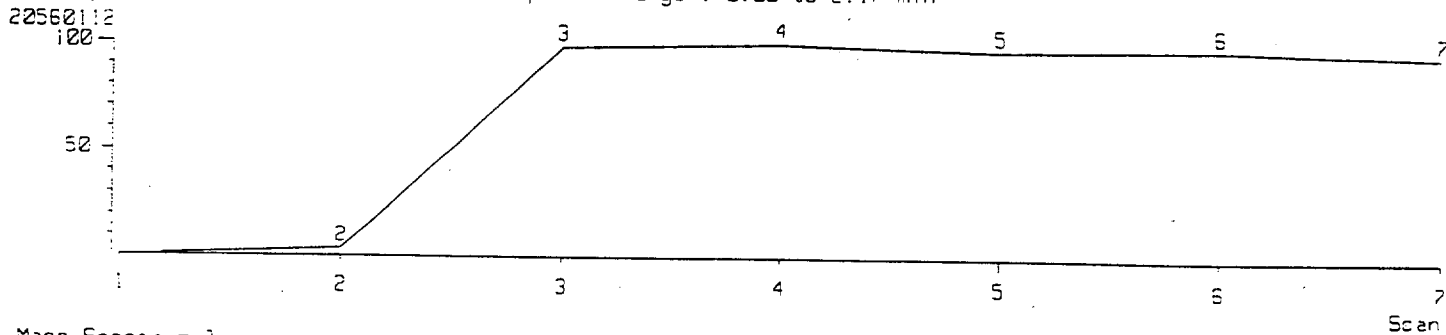


S11

¹H-NMR (500 MHz, CS₂-CD₂Cl₂) of the er adducts from the reaction of C60 with 1-d₀/1₂

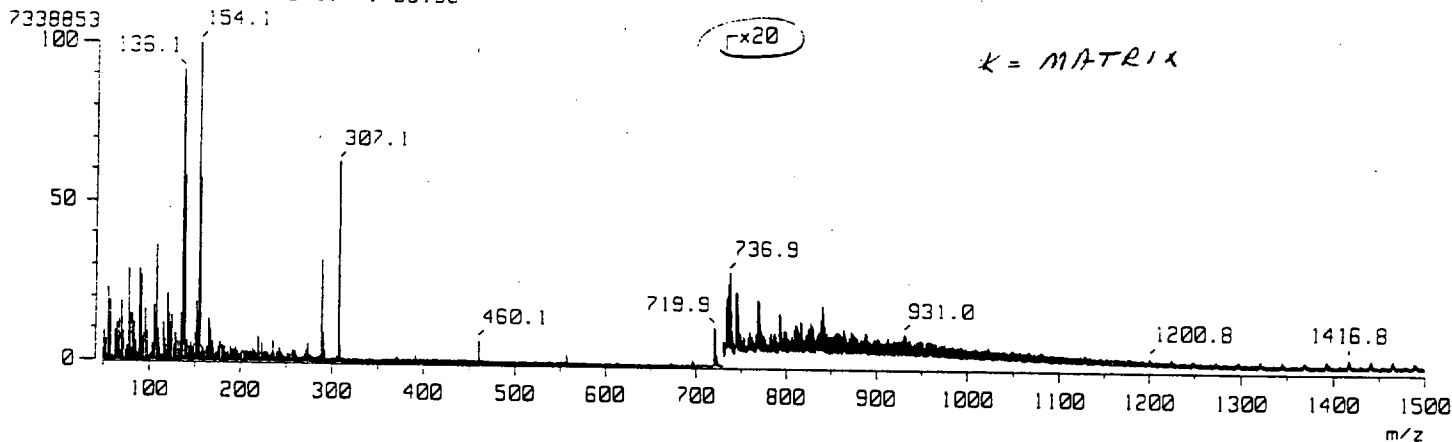


Sample: Solinos/Karabatsos sample #4
 Note: in toluene (NBA +FAB) (4022)
 Inlet: Direct
 Ion Species: Normal Ion [MF-Linear]
 TIC Range: m/z 50 to 1500
 Ion Mode: FAB+
 Output RT Range: 0.00 to 2.17 min



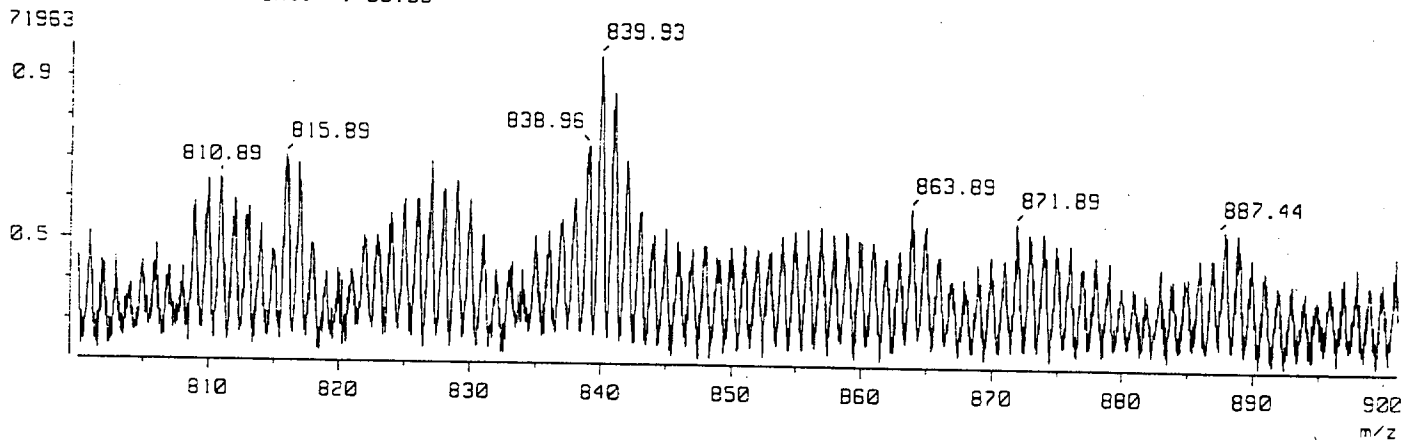
[Mass Spectrum]

RT : 1.09 min Scan# : (1,7) Temp : 0.2 deg.C
 Ion Mode : FAB+ Int. : 99.98



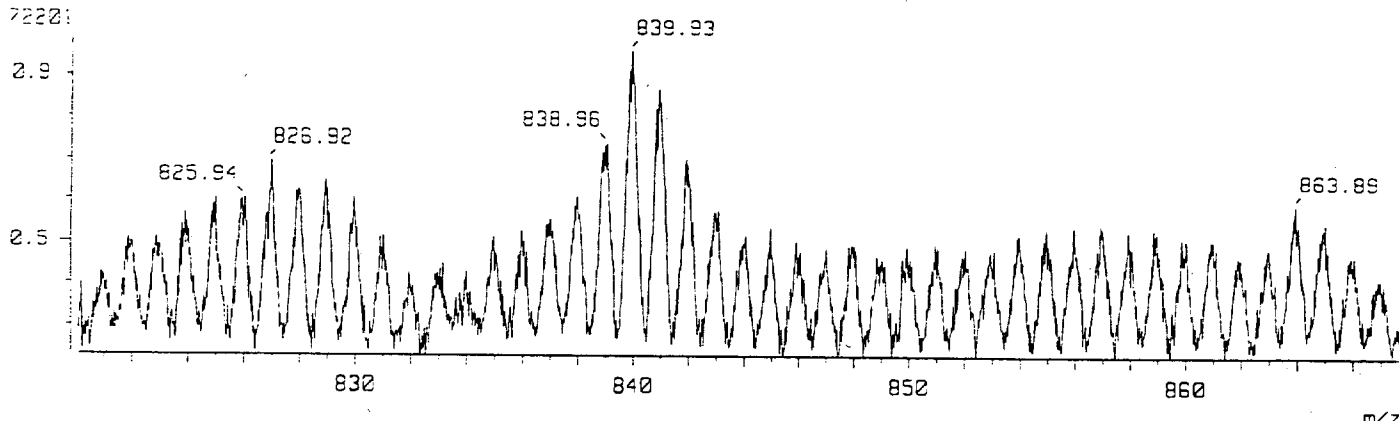
[Mass Spectrum]

RT : 1.09 min Scan# : (1,7) Temp : 0.2 deg.C
 Ion Mode : FAB+ Int. : 99.98



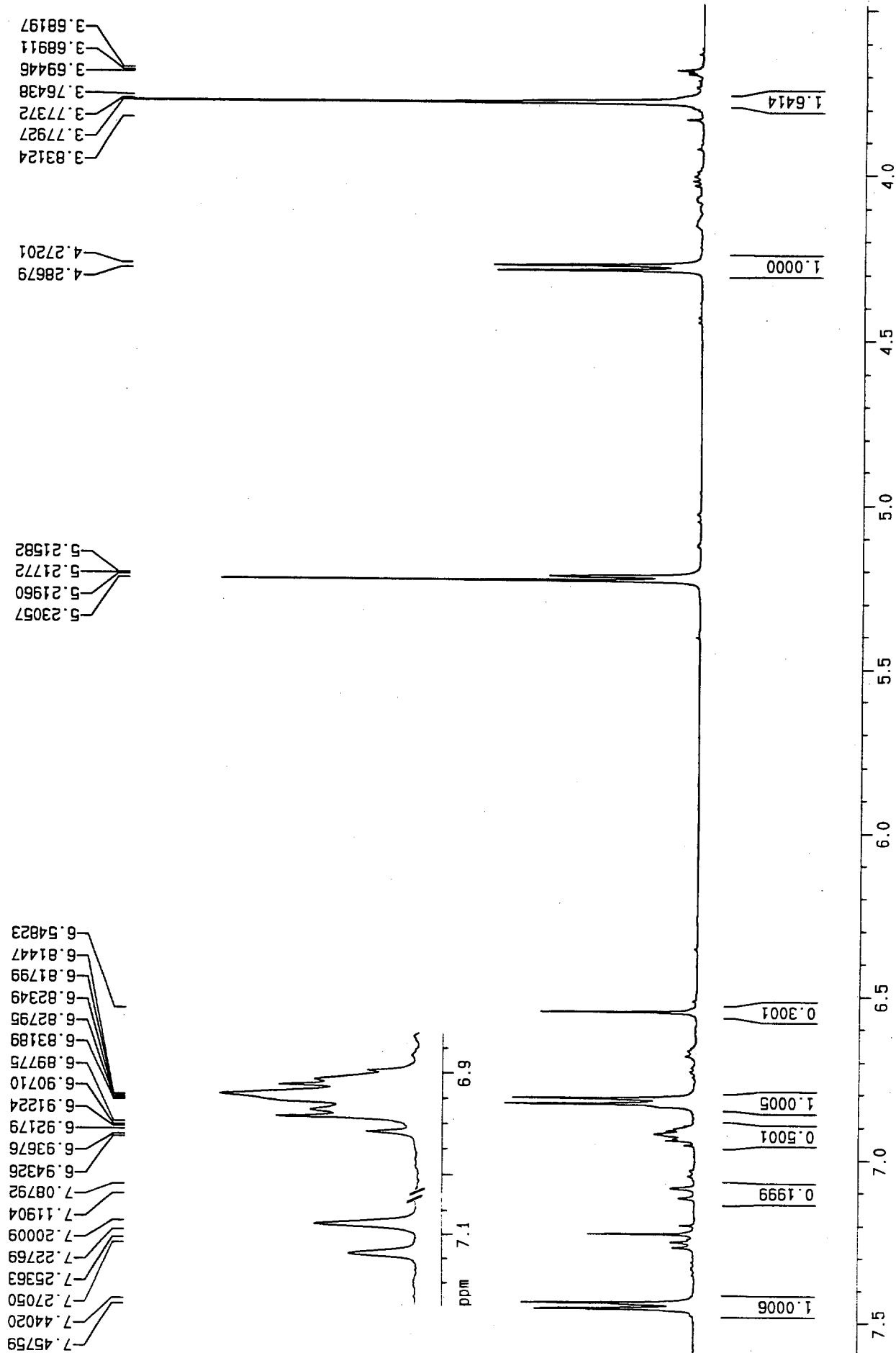
[Mass Spectrum]

RT : 1.09 min Scan# : (1,7) Temp : 0.2 deg.C
 Ion Mode : FAB+ Int. : 99.98

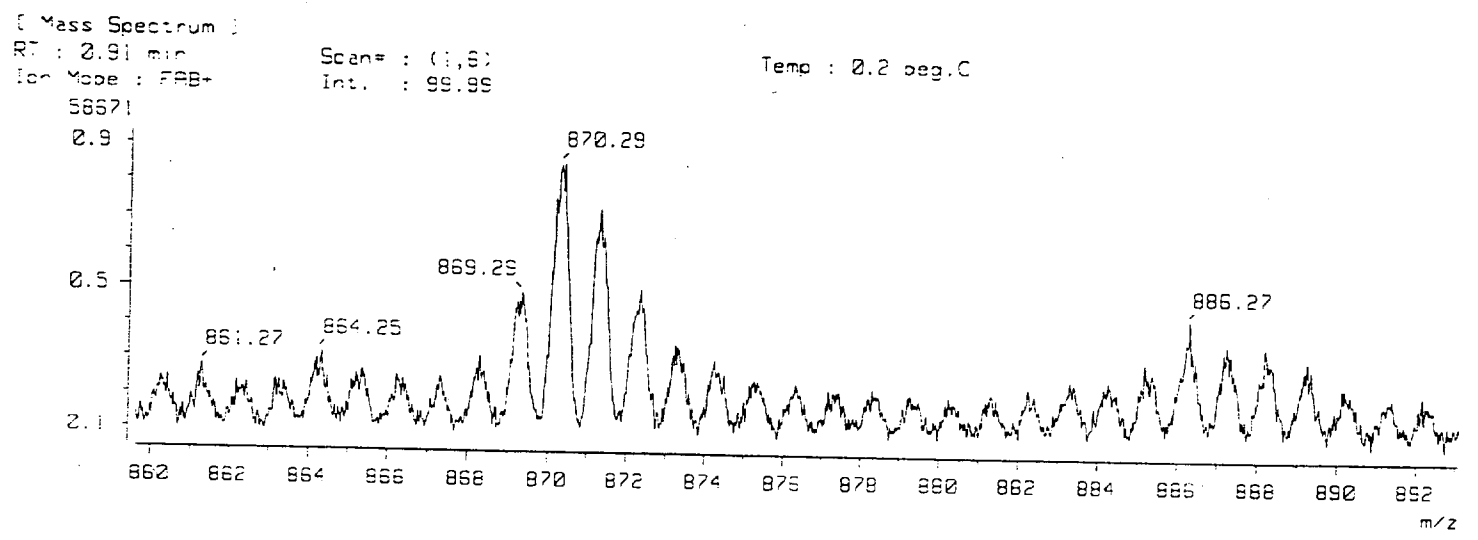
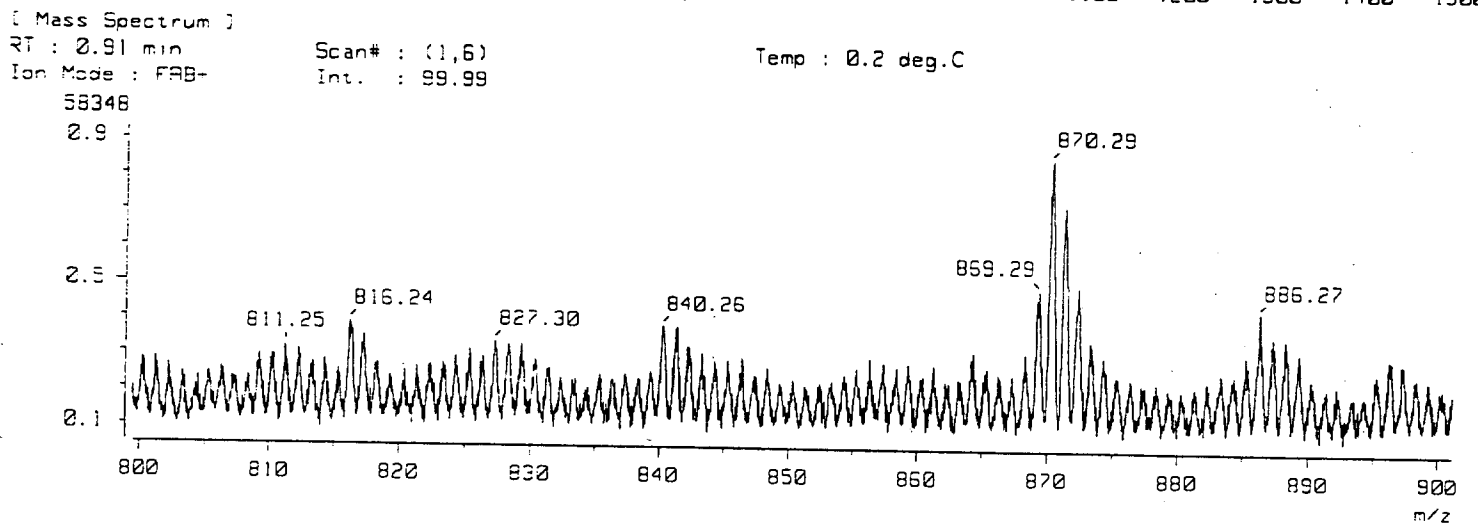
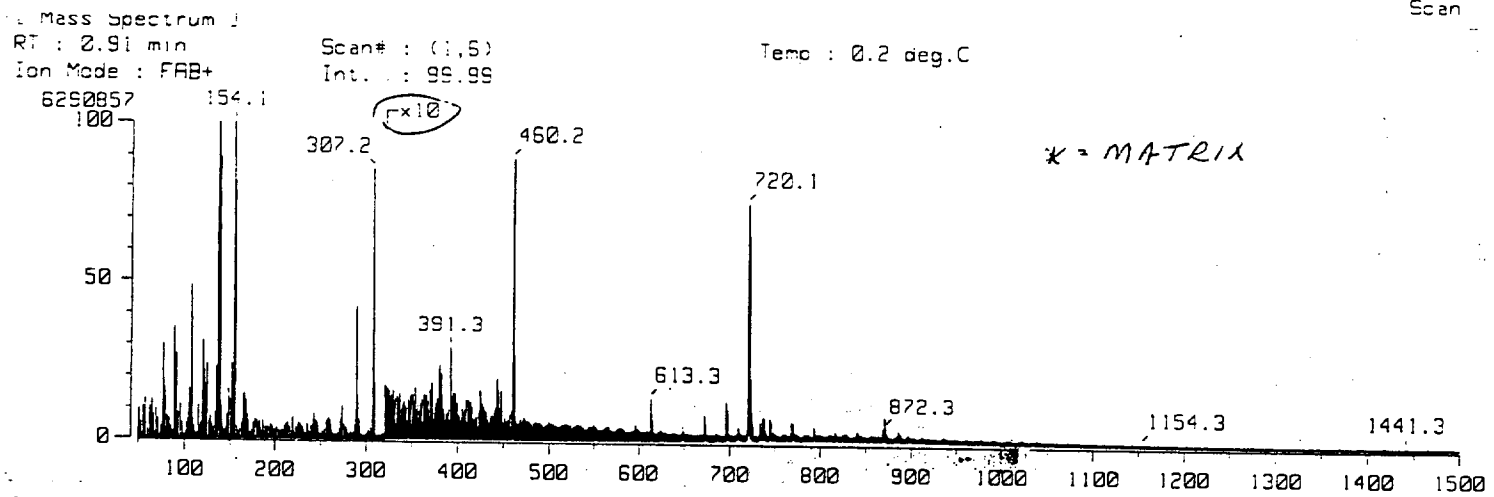
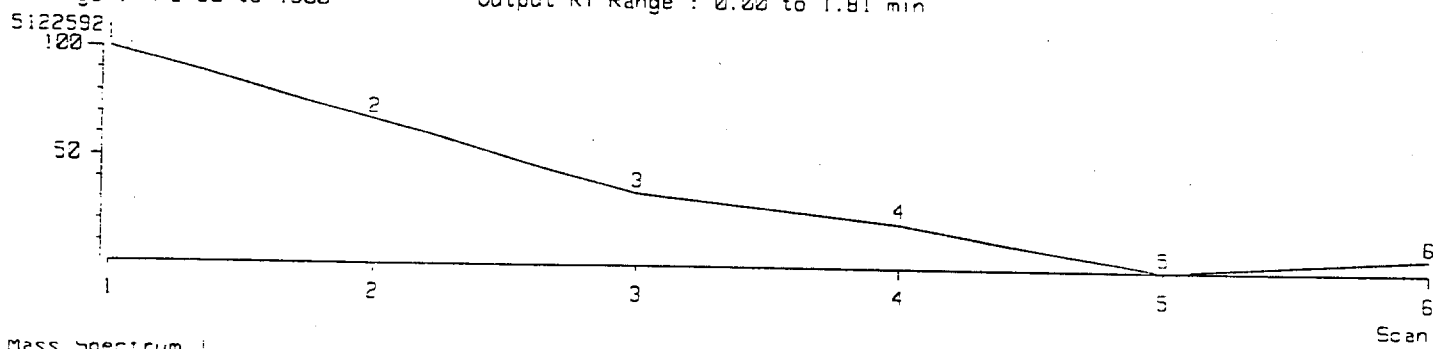


S13

¹H-NMR (500 MHz, CS₂-CD₂Cl₂) of the adducts from the reaction of C60 with 2-d

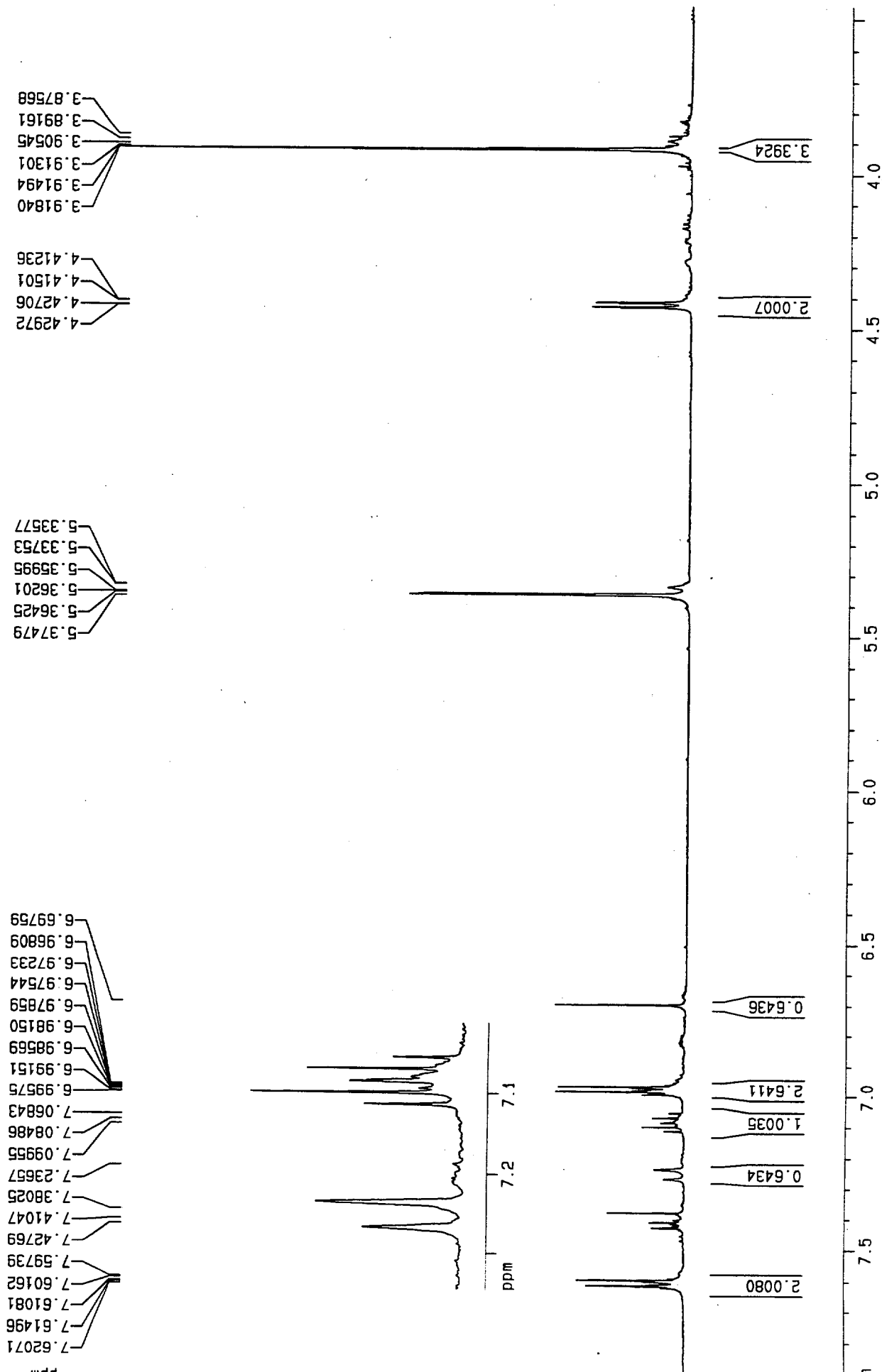


Note: InCH2C12(NBR +FAB)(4022)
 Inlet: Direct Ion Mode: FAB+
 Ion Species: Normal Ion [MF-Linear]
 TIC Range: m/z 52 to 1500 Output RT Range: 0.00 to 1.81 min

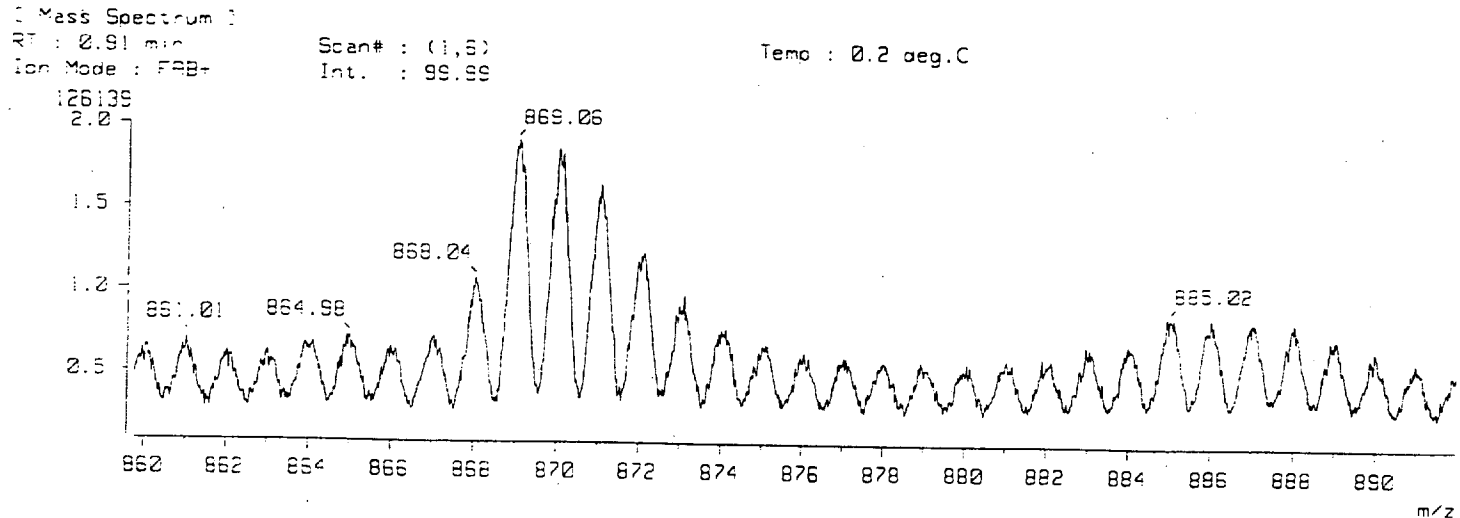
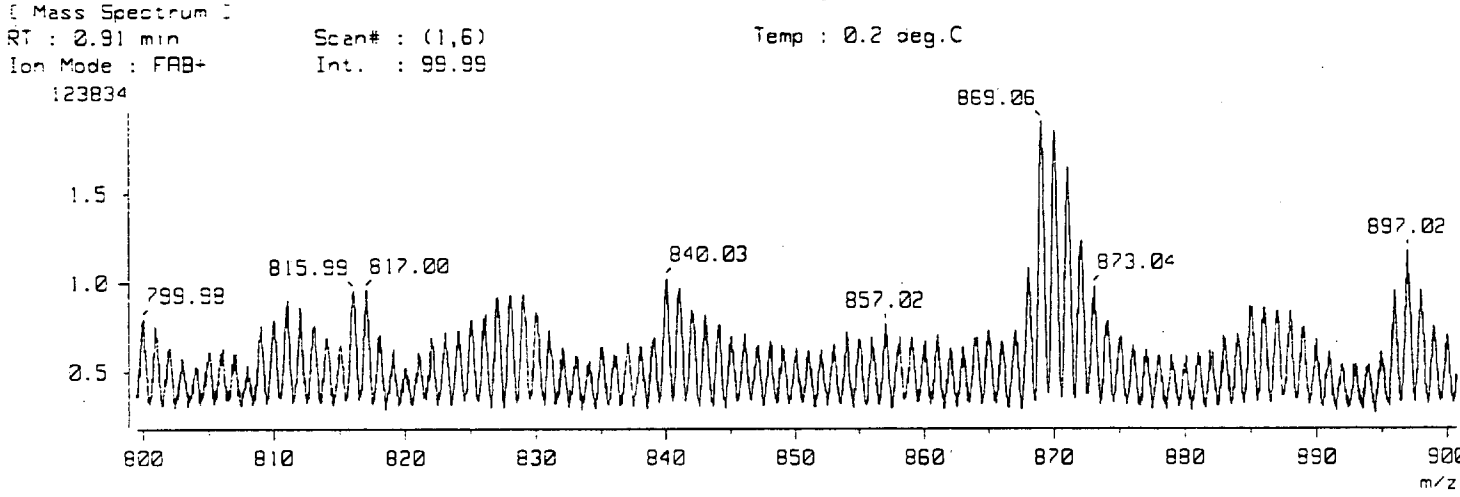
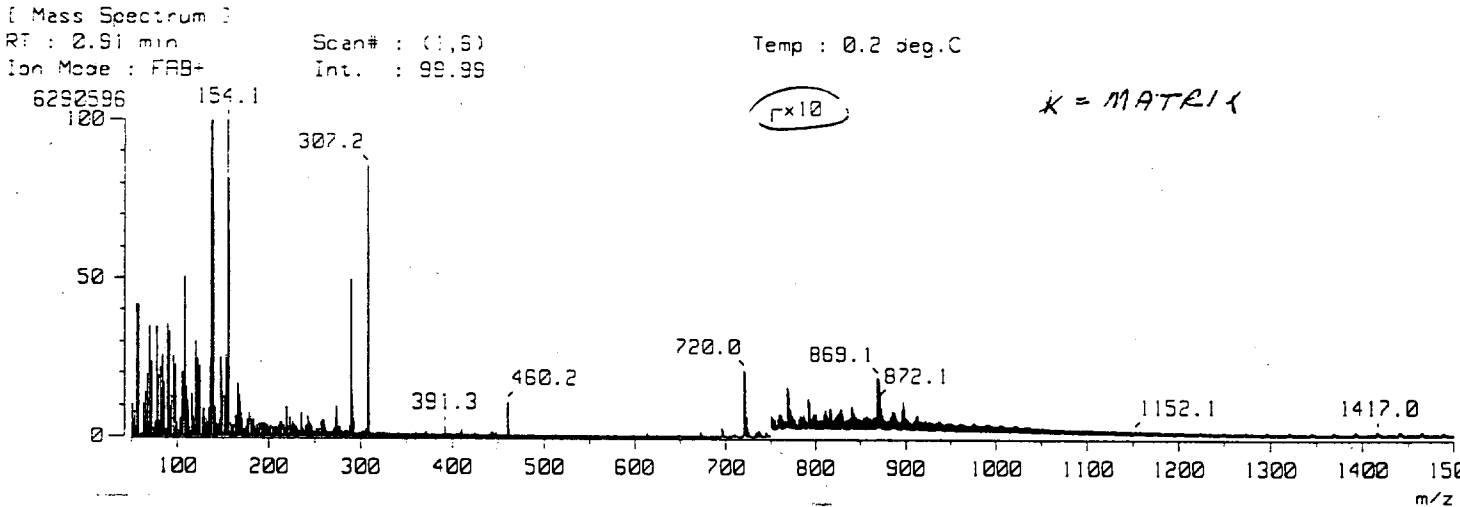
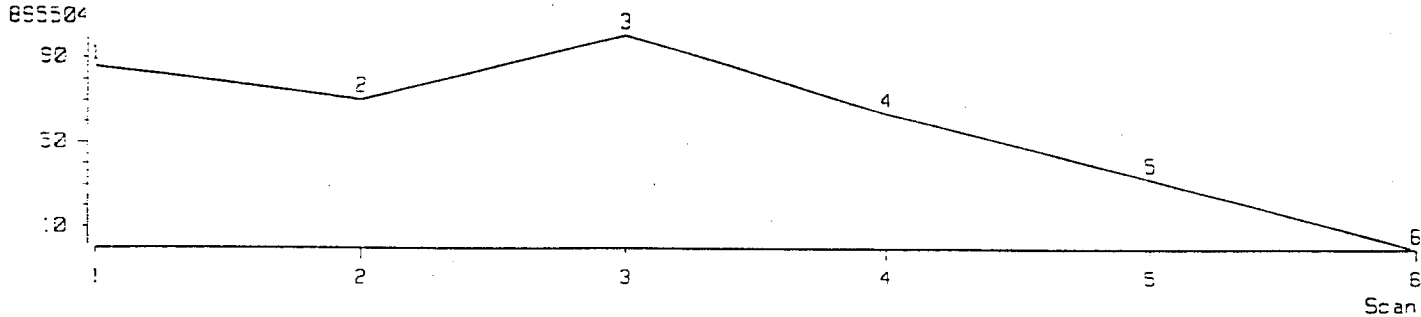


S15

¹H-NMR (500 MHz, CS₂-CD₂Cl₂) of the adducts from the reaction of C₆₀ with 2-c



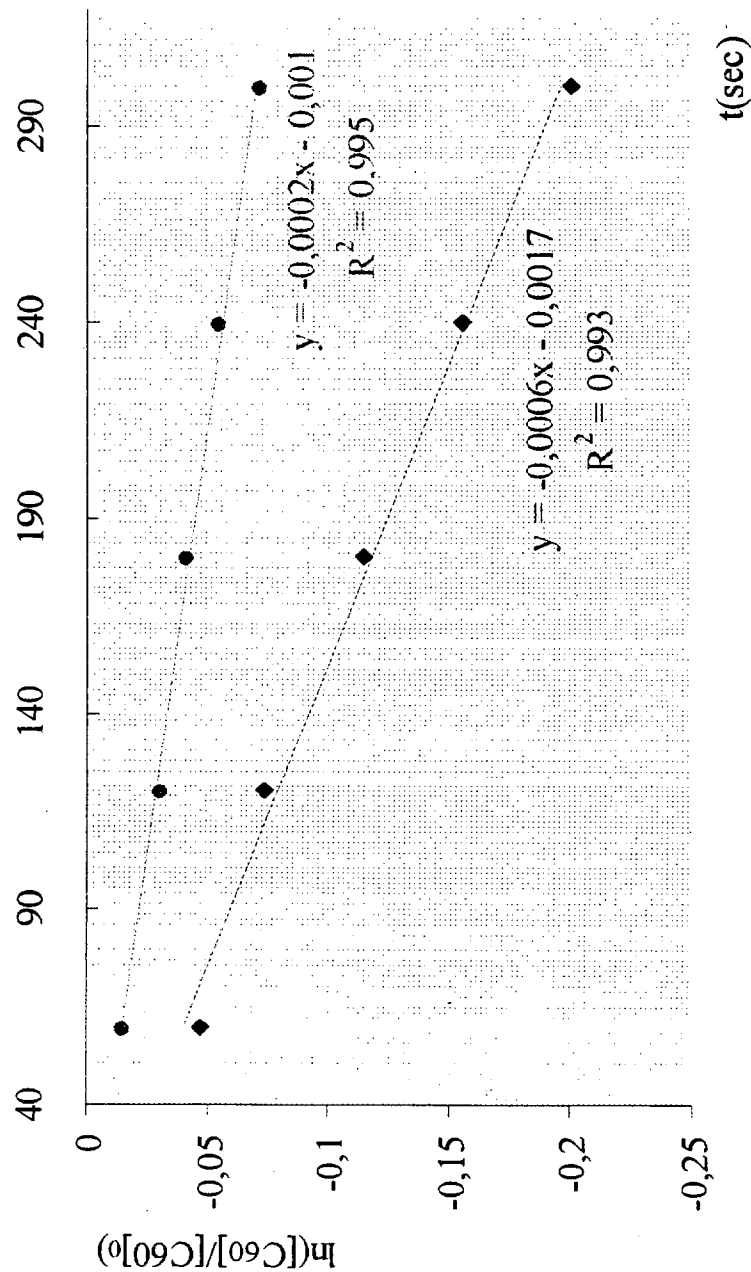
Sample: Spiros/Karabatsos sample #2
 Note: in CH2Cl2(NBA +FAB)(4022)
 Inlet: Direct Ion Mode: FAB+
 Ion Species: Normal Ion (MF-Linear)
 TIC Range: m/z 52 to 1520 Output RT Range: 0.00 to 1.81 min



S17

Kinetic competition of an equimolar mixture of 1-d₀/2-d₀ with C60 in 1,2-dichlorobenzene at 180 °C (consumption of C60 vs time)

Relative Reaction Rates of C60 with 3-phenyl-1-propene and C60 with 3-(p-methoxyphenyl)-1-propene in 1,2-DCB

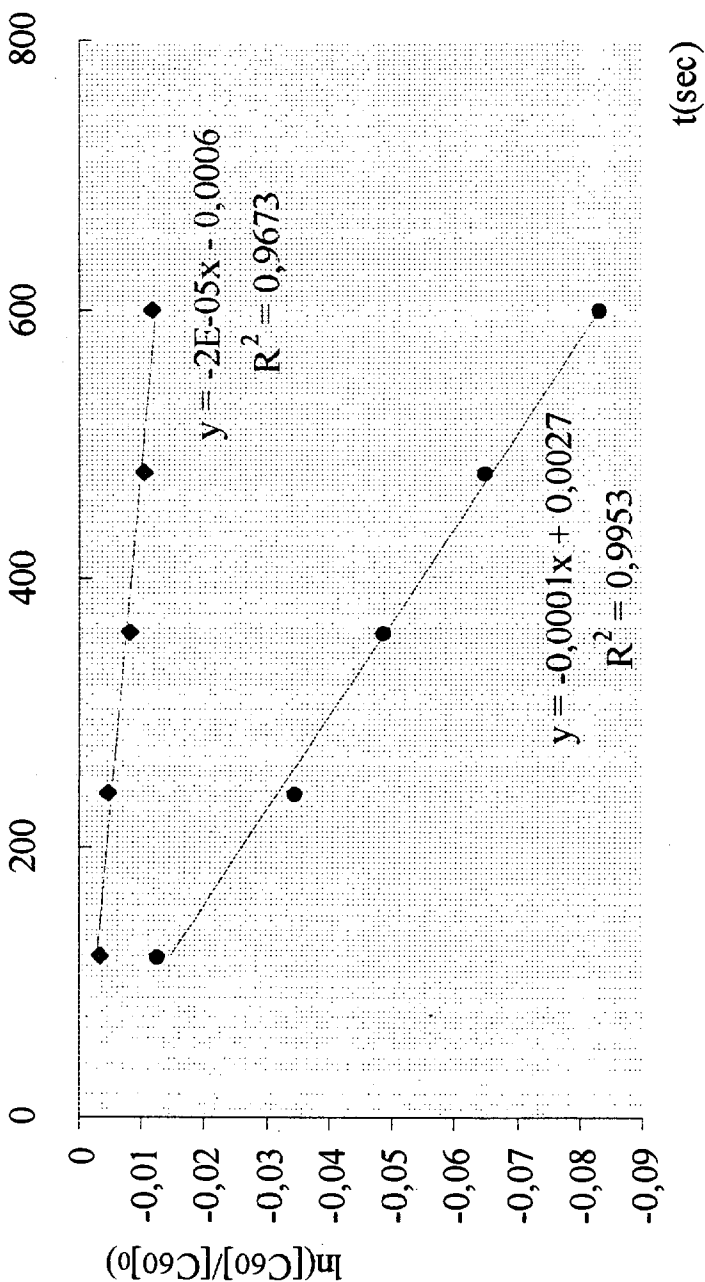


$$\frac{k_{\text{Allylanisole}}}{k_{\text{Allylbenzene}}} = 3.0$$

S18

Kinetic competition of the reaction of C60 with 1-d₀ in toluene at 1,2-dichlorobenzene (consumption of C60 vs time)

Relative Reaction Rates of C60 with 3-phenyl-1-propene, in toluene and 1,2-DCB



$$\frac{k_{DCB}}{k_{Toluene}} = 20$$