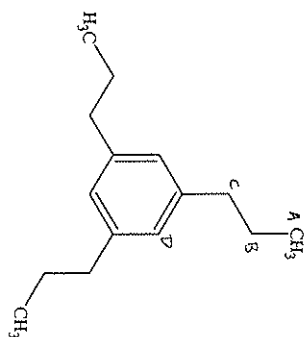
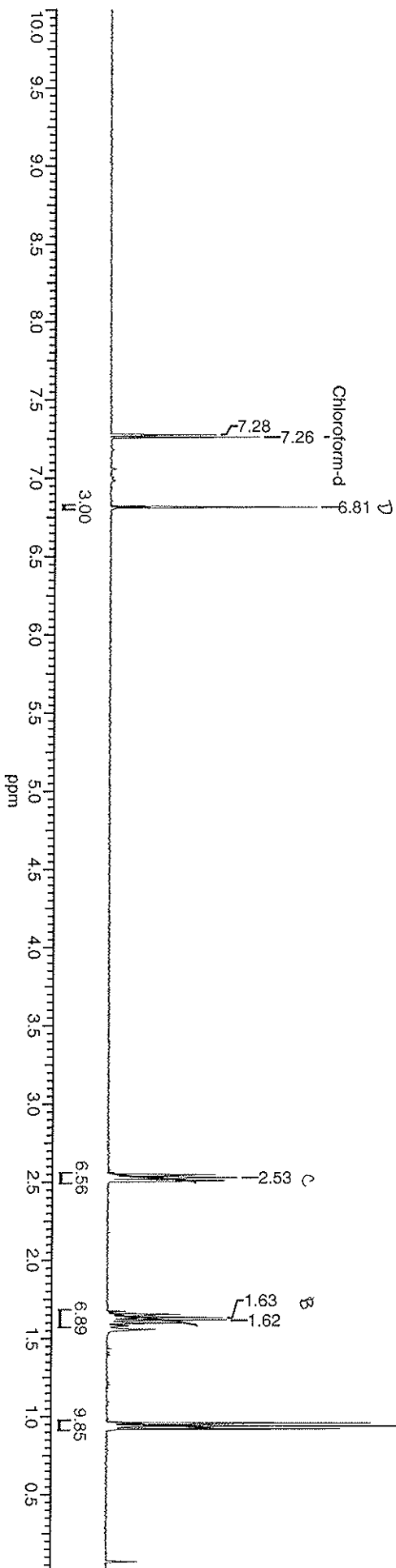


NIC12(dppp) Coupling Propyl

Meg Collins
MLC:11.96 Grignard Propyl Crude

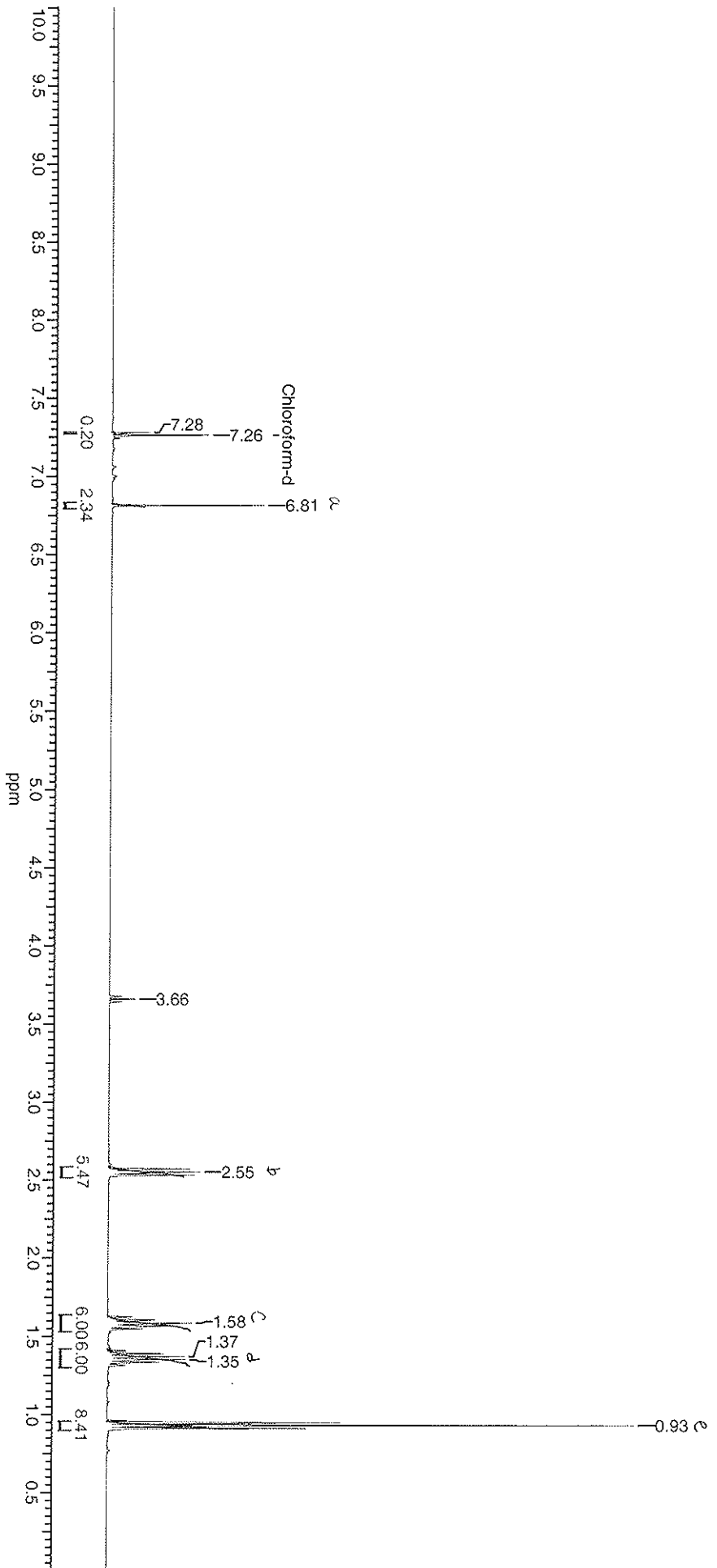
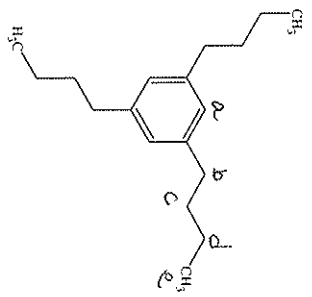
Acquisition Time (sec)	2.0480	Comment	MLC:11.96 Grignard Propyl Crude	Date	Aug 23 2002	Number of Transients	1
File Name	G:196GrigPropC	Frequency (MHz)	399.95	Nucleus	¹ H	Solvent	CHLOROFORM-D
Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul		
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000				



NIC12 Coupling Butyl Crude

Meg Collins
MLC.II.149 NIC12 Coupling Butyl Crude

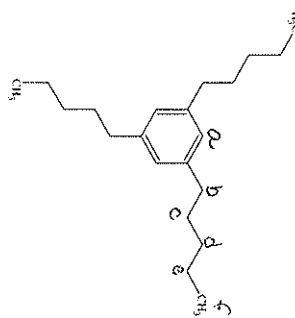
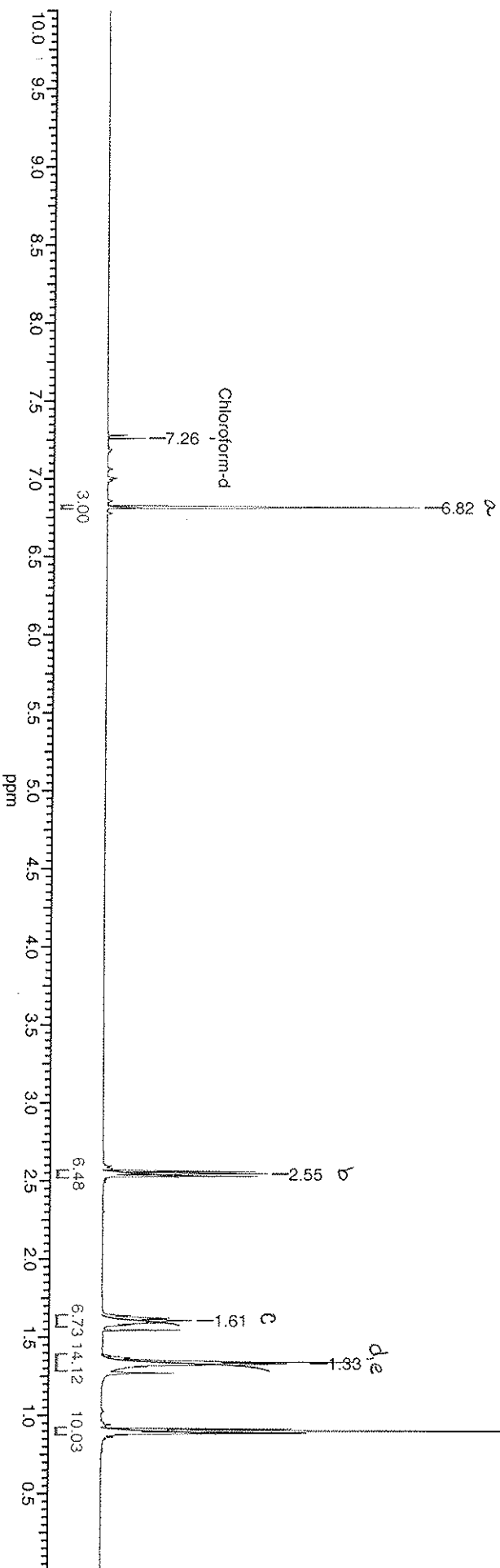
Acquisition Time (sec)	2.0480	Comment	MLC.II.149 NIC12 Coupling Butyl Crude	Date	Nov 15 2002
File Name	G:\149NIC12	Points Count	32768	Nucleus	¹ H
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul
				Number of Transients	32



Pentyl Benzene

Meg Collins
MLC.III.81 Pentyl Silica Plug

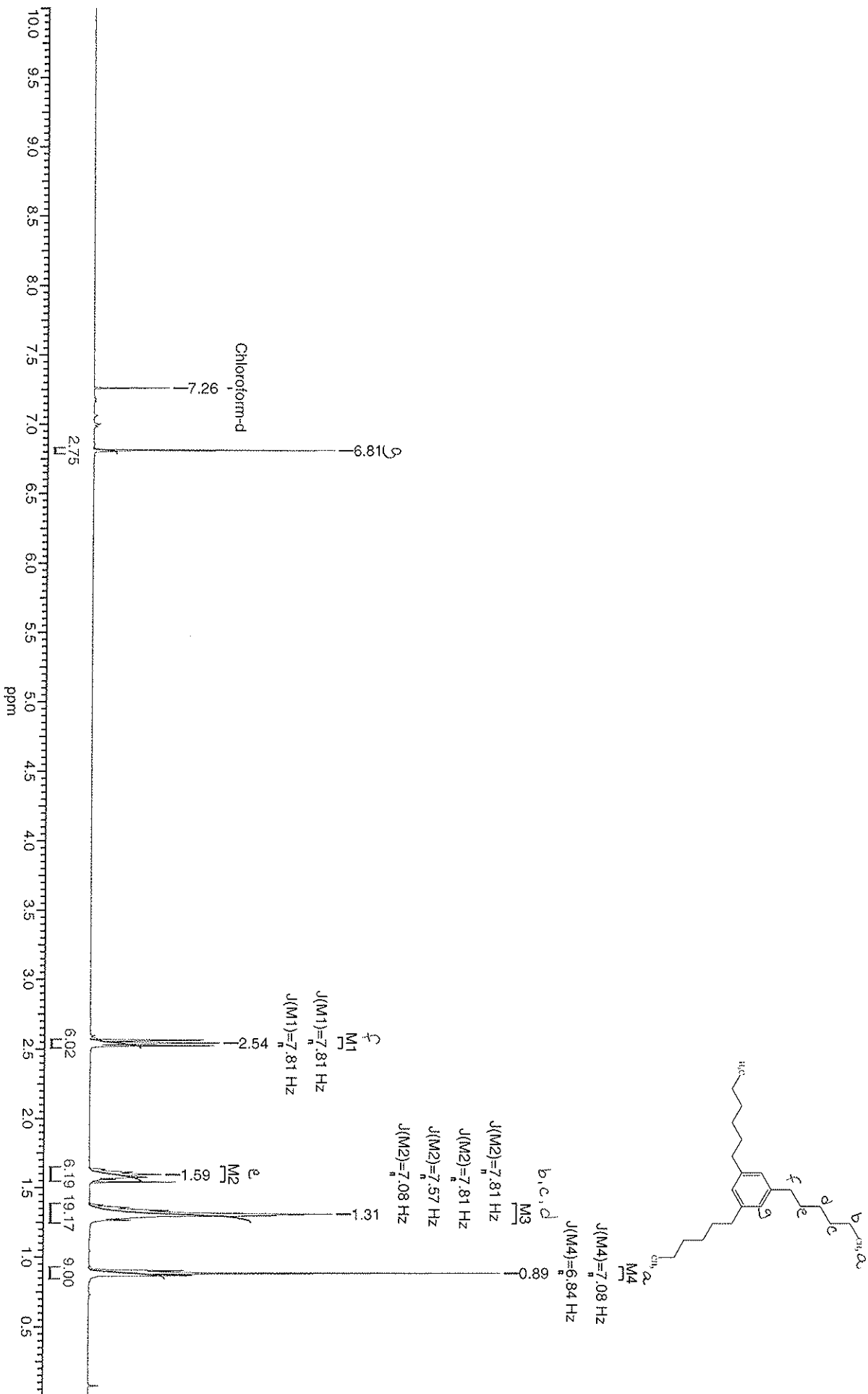
Acquisition Time (sec)	2.3323	Comment	MLC.III.81 Pentyl Silica Plug	Date	Jun 18 2004
File Name	Z:\81 PentylSP	Frequency (MHz)	499.70	Nucleus	¹ H
Original Points Count	32768	Points Count	32768	Solvent	CHLOROFORM-D
Sweep Width (Hz)	7024.94	Temperature (degree C)	29.000	Pulse Sequence	s2pul
				Number of Transients	32



Trihexylbenzene ~~Crude~~

Meg Collins
MLC.III.43 Trihexylbenzene SP

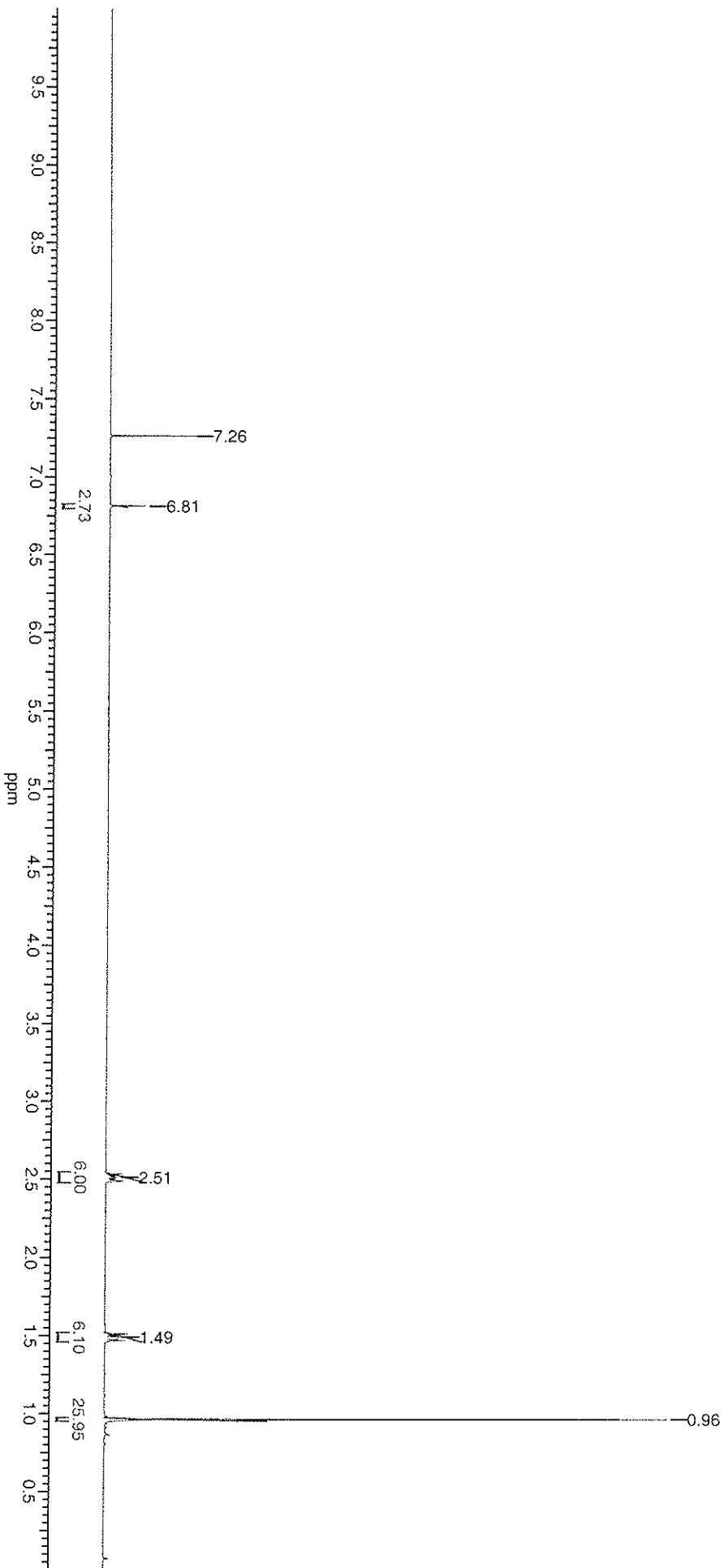
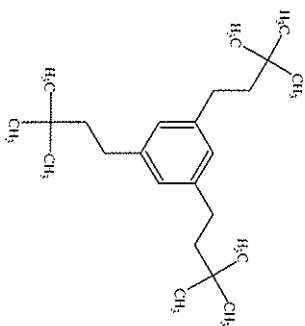
Acquisition Time (sec)	2.0480	Comment	MLC.III.43 Trihexylbenzene SP
File Name	Z:\43TrihexBenzSP	Date	Mar 26 2004
Original Points Count	32768	Nucleus	¹ H
Sweep Width (Hz)	8000.00	Pulse Sequence	s2pul
		Points Count	32768
		Solvent	CHLOROFORM-D
		Temperature (degree C)	29.000
		Frequency (MHz)	399.95
		Number of Transients	32



NiCl Coupling 1-chloro-3,3-dimethylbutane

Meg Collins
MLC.II.165 NiCl Coupling t-butyl crude

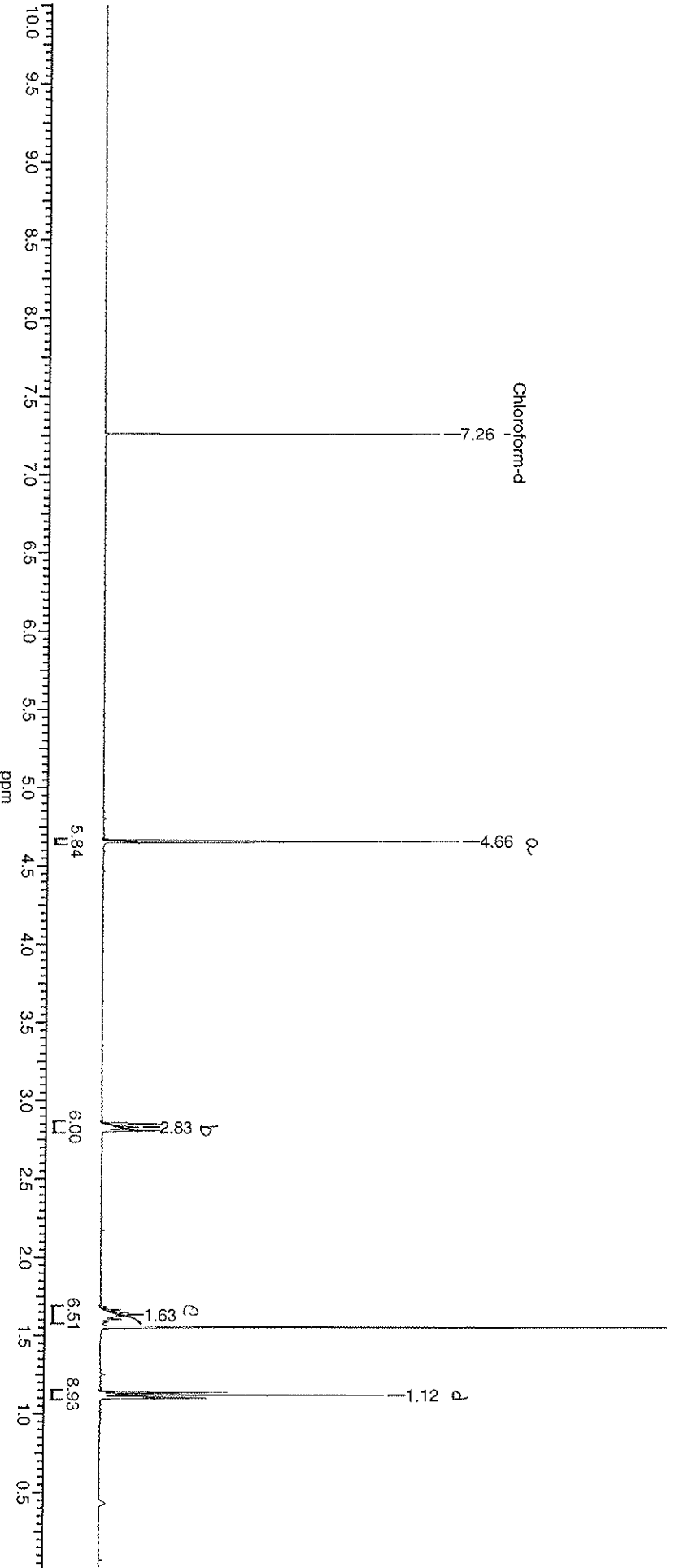
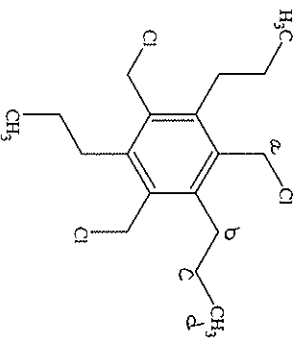
Acquisition Time (sec)	2.0480	Comment	MLC.II.165 NiCl Coupling t-butyl crude	Date	Feb 25 2003
File Name	Z:\165NiClCoupBut	Points Count	32768	Nucleus	¹ H
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul
				Number of Transients	32



Chloromethylation Propyl

Meg Collins
MLC.11.103 Chloromethylation Propyl

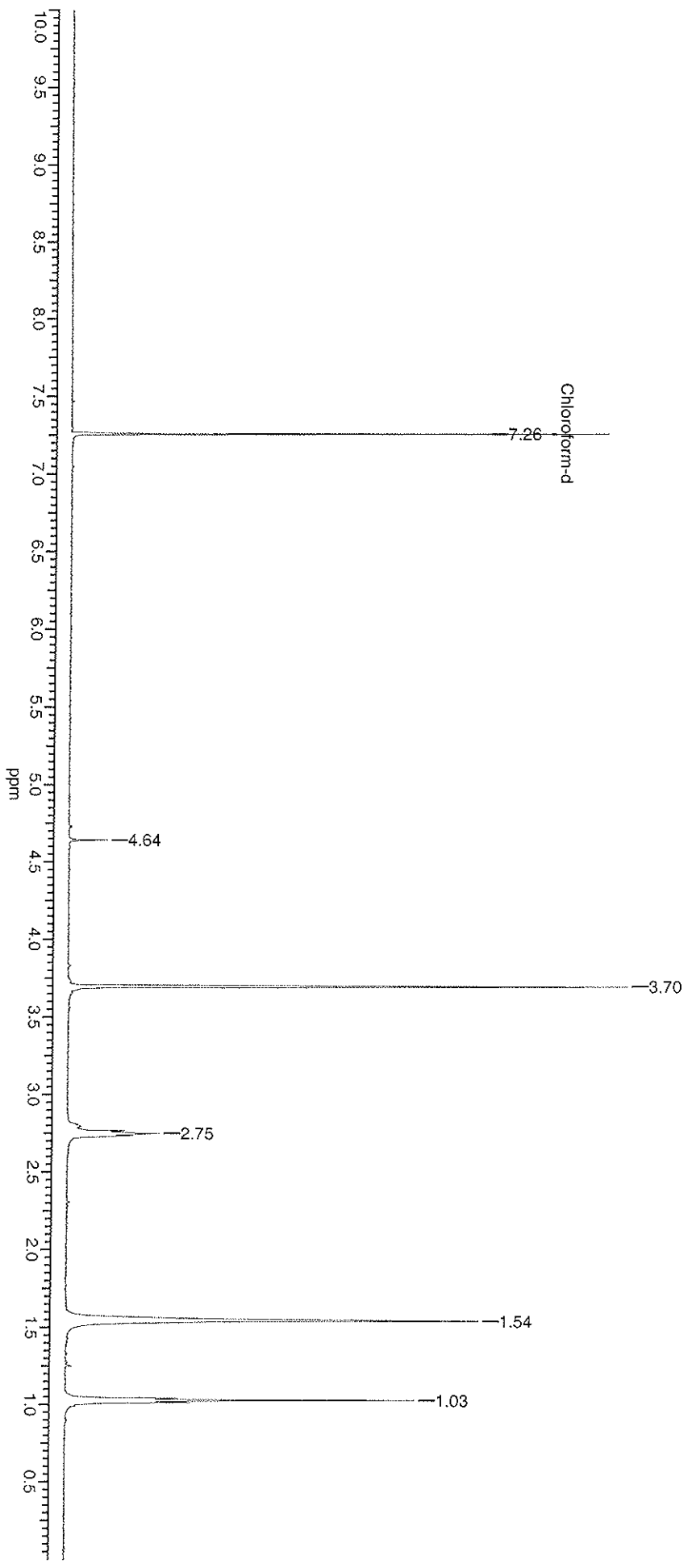
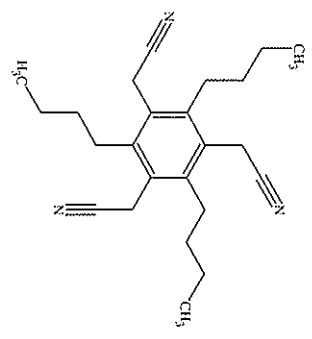
Acquisition Time (sec)	2.0480	Comment	MLC.11.103 Chloromethylation Propyl	Date	Aug 28 2002
File Name	Z:\103ChloromethProp	Frequency (MHz)	399.95	Nucleus	¹ H
Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D
				Number of Transients	32



Cyanide Addition Butyl

Meg Collins
MLC-II, 131 Cyanide Addition Butyl

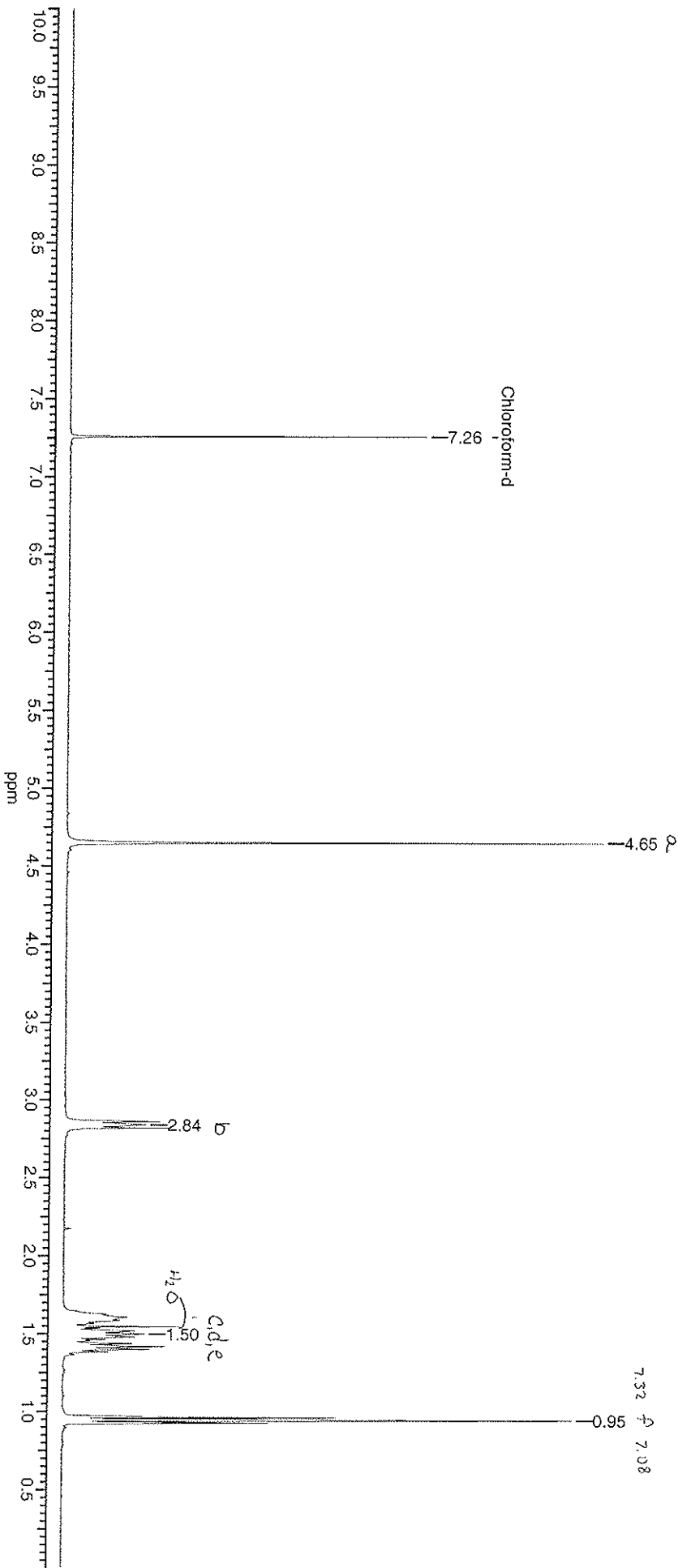
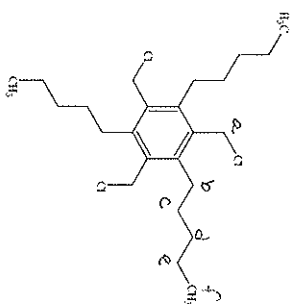
Acquisition Time (sec)	1.9999	Comment	MLC-II, 131 Cyanide Addition Butyl	Date	Oct 18 2002
File Name	G:\131\CyanBut	Frequency (MHz)	499.70	Nucleus	¹ H
Original Points Count	28099	Pulse Sequence	s2pul	Solvent	CHLOROFORM-D
Sweep Width (Hz)	7024.94	Points Count	32768	Number of Transients	32
		Temperature (degree C)	29.000		



Chloromethyl Pentyl

Meg
MLC.III.83 Chloromethyl Pentyl

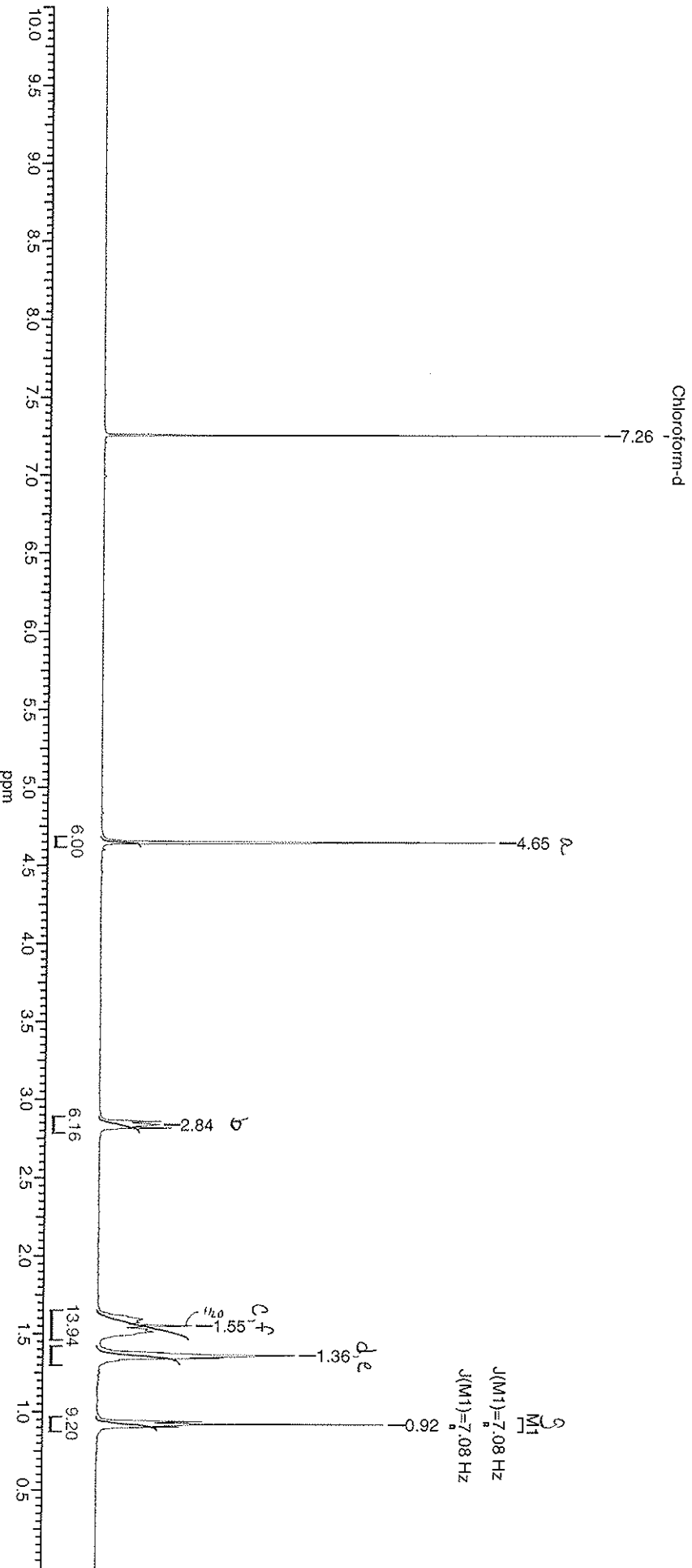
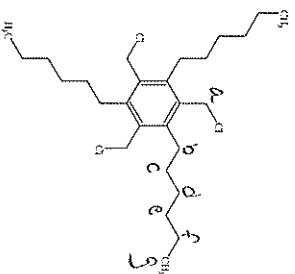
Acquisition Time (sec)	2.0480	Comment	MLC.III.83 Chloromethyl Pentyl	Date	Jun 28 2004
File Name	E:\83ChlorMeIPent	Points Count	32768	Nucleus	¹ H
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul
				Number of Transients	32



Chloromethyl Hexyl

Meg Collins
MLC Ill.53 Chloromethyl Hexyl

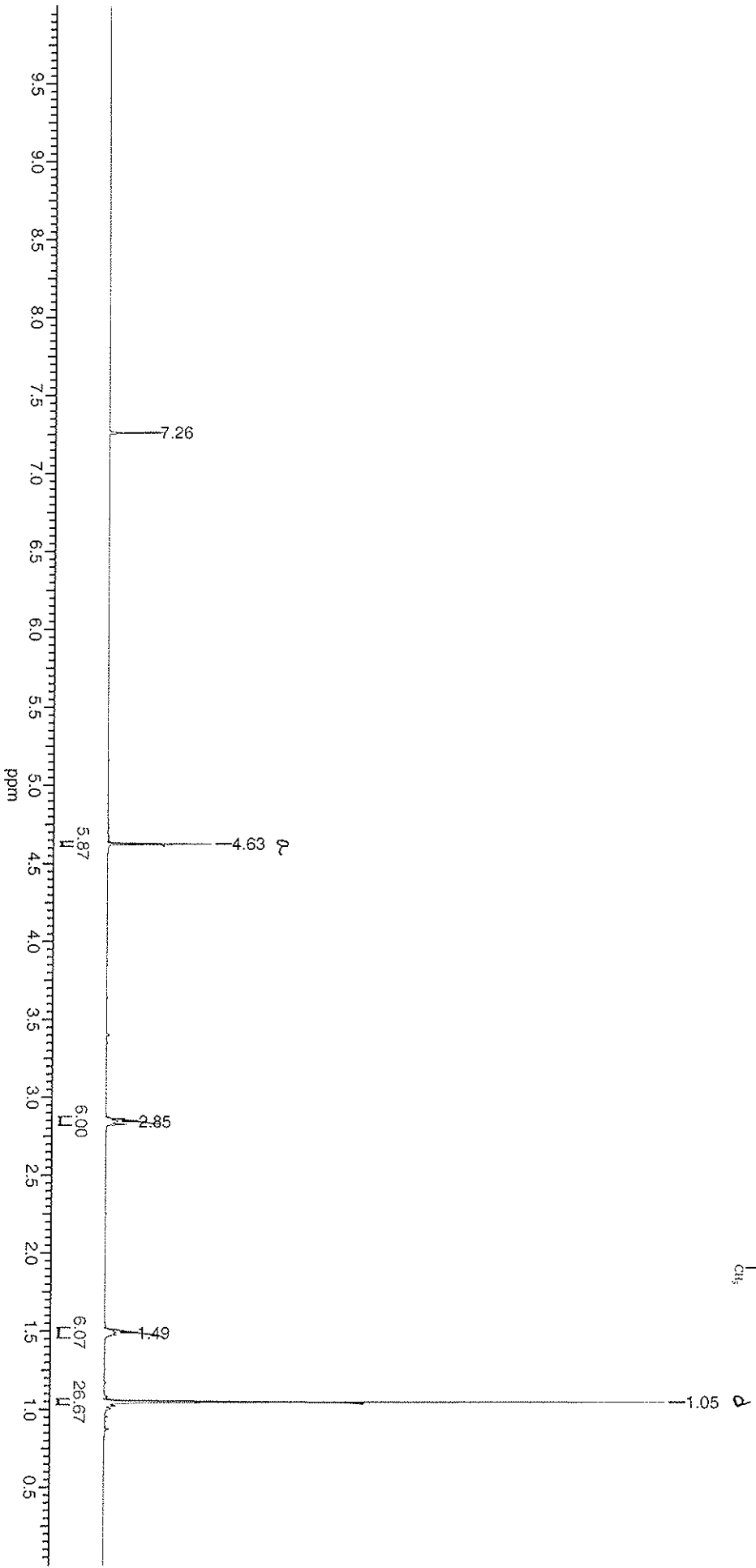
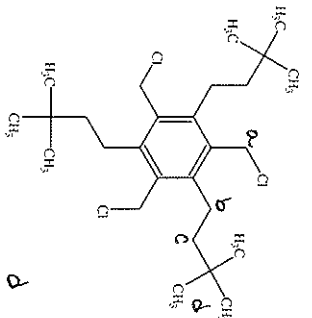
Acquisition Time (sec)	2.0480	Comment	MLC Ill.53 Chloromethyl Hexyl	Date	Jul 7 2004	Number of Transients	32
File Name	E:\53ChlorMethHex	Frequency (MHz)	399.95	Nucleus	¹ H		
Original Points Count	32768	Pulse Sequence	s2pul	Solvent	CHLOROFORM-D		
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000				



Chloromethylation t-Butyl

Meg Collins
MLC.II.169 Chloromethylation t-Butyl Crude

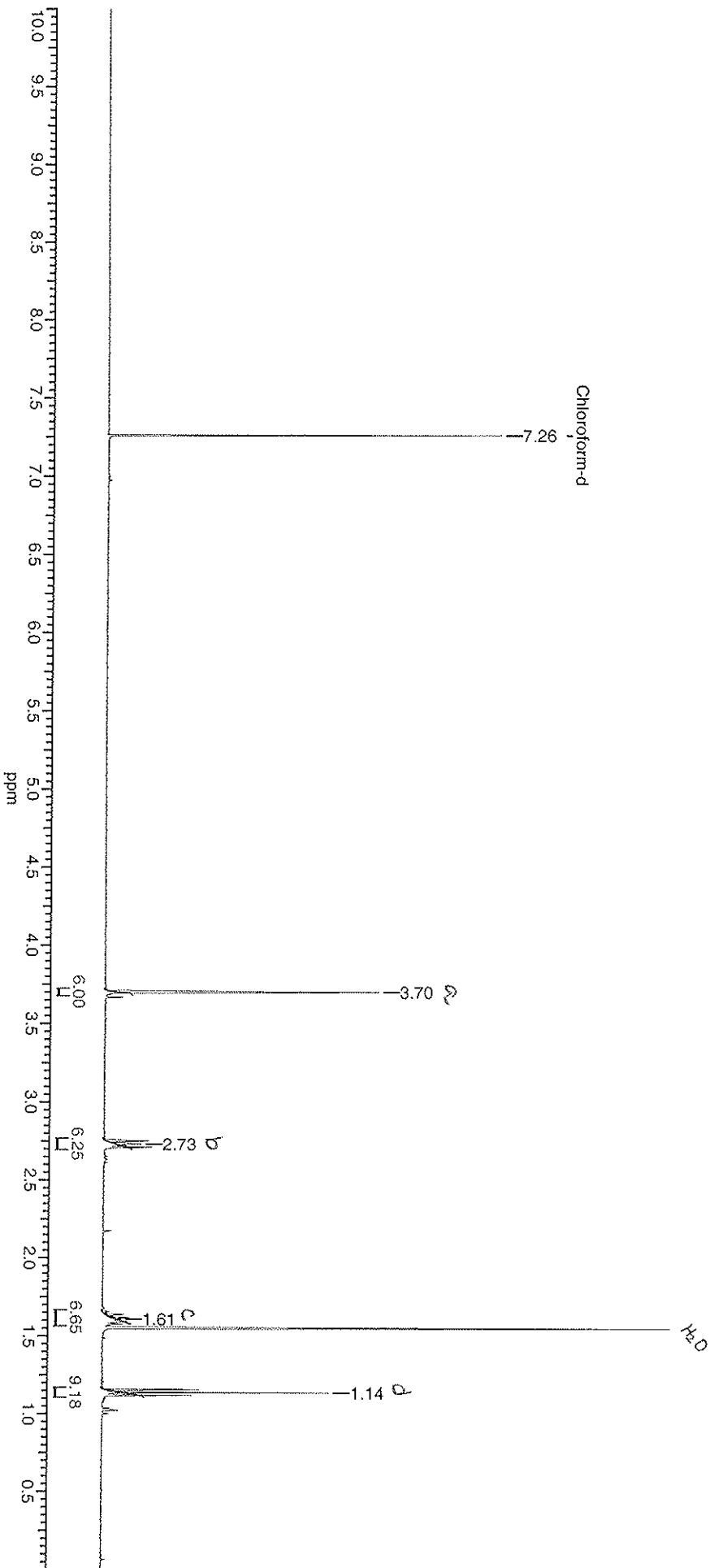
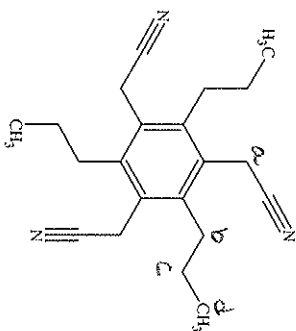
Acquisition Time (sec)	2.3323	Comment	MLC.II.169 Chloromethylation t-Butyl Crude	Date	Feb 26 2003	Number of Transients	32
File Name	Z:\169ChlorMetBut	Points Count	32768	Nucleus	¹ H	CHLOROFORM-D	
Original Points Count	32768	Temperature (degree C)	29.000	Solvent			
Sweep Width (Hz)	7024.94						



Cyanide Addition Propyl

Meg Collins
MLC.11.129 Cyanide Addition Propyl

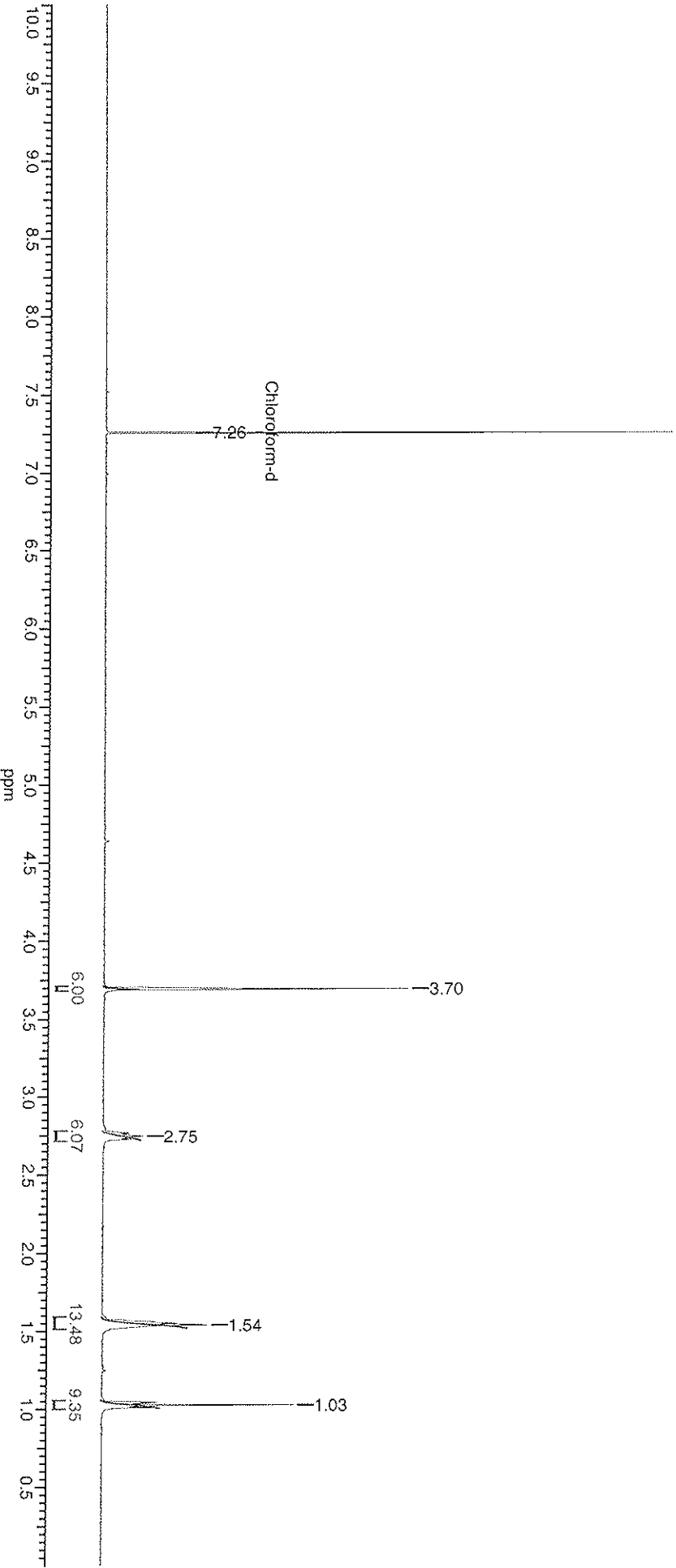
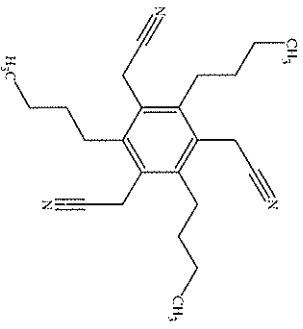
Acquisition Time (sec)	2.0480	Comment	MLC.11.129 Cyanide Addition Propyl	Date	Oct 15 2002	Number of Transients	32
File Name	G:\129CyanProp	Frequency (MHz)	399.95	Nucleus	¹ H	CHLOROFORM-D	
Original Points Count	32768	Pulse Count	32768	Pulse Sequence	s2pul		
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000	Solvent			



Cyanide Addition

Meg Collins
MLC.II.157 Cyanide Addition Butyl

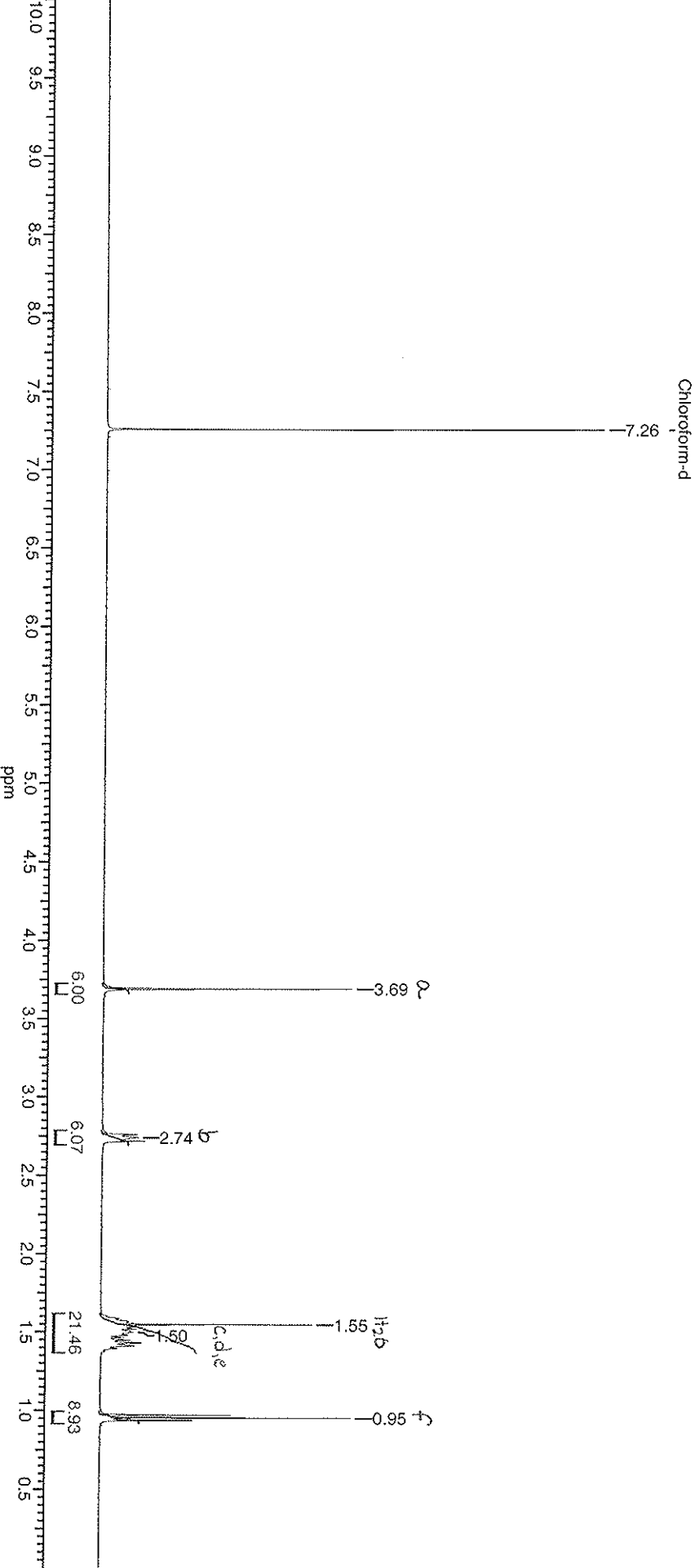
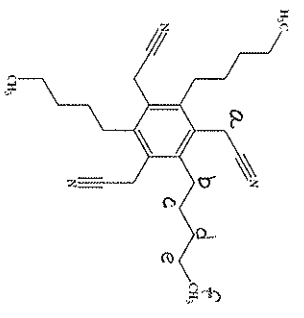
Acquisition Time (sec)	2.0480	Comment	MLC.II.157 Cyanide Addition Butyl	Date	Dec 2 2002
File Name	E:\157 CyanAdd	Points Count	32768	Nucleus	¹ H
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul
				Number of Transients	32



Nitrile Chloromethyl Pentyl

Meg Collins
MLC, Ill 89 Pentyl Nitrile

Acquisition Time (sec)	2.0480	Comment	MLC, Ill 89 Pentyl Nitrile
File Name	E:\89PentNitr	Frequency (MHz)	399.95
Original Points Count	32768	Pulse Sequence	s2pul
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000
		Date	Jun 29 2004
		Nucleus	¹ H
		Solvent	CHLOROFORM-D
		Number of Transients	32

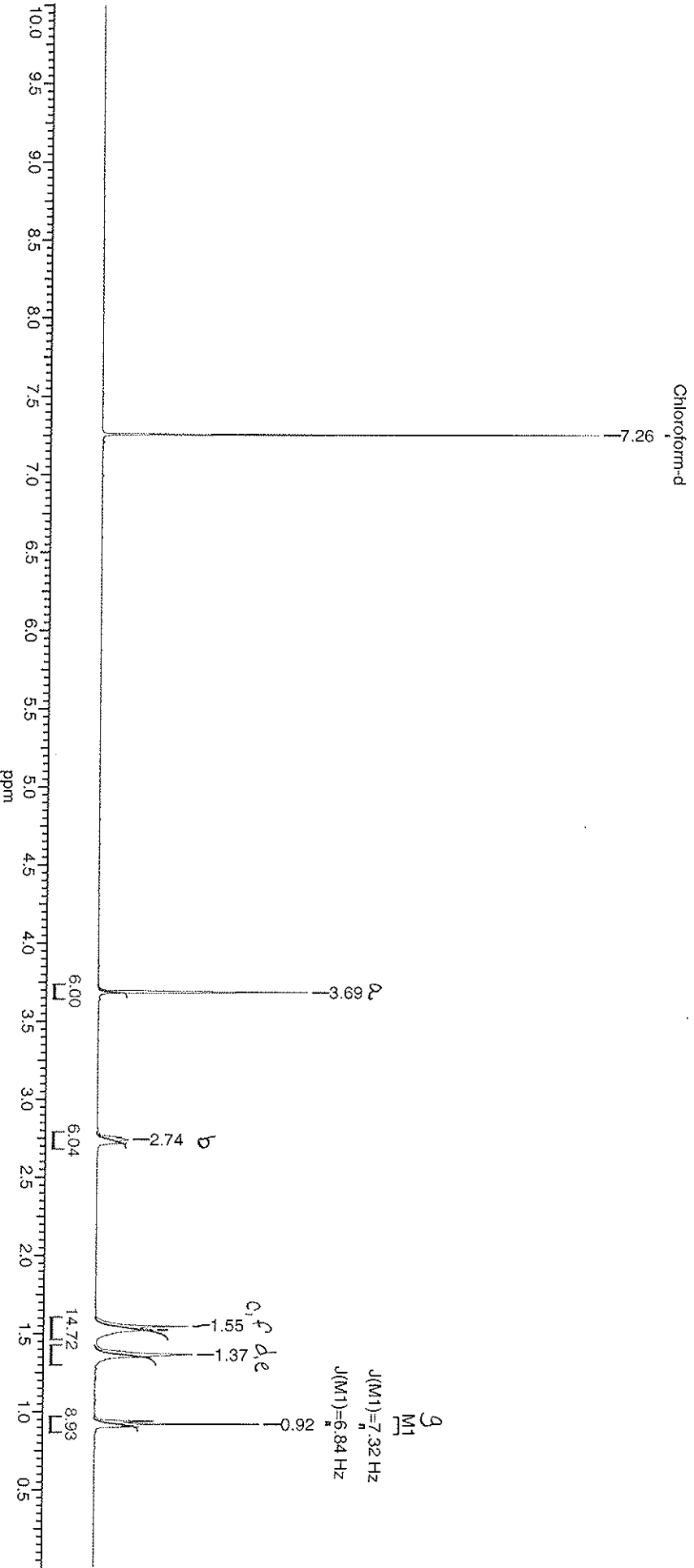
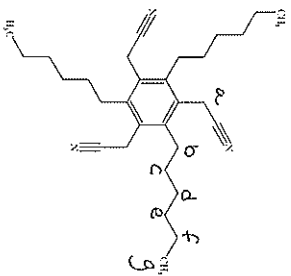


Nitrile Hexyl

Meg Collins
MLC.III.95 Nitrile Hexyl

Acquisition Time (sec)	2.0480	Comment	MLC.III.95 Nitrile Hexyl	Date	Jul 10 2004
File Name	E:\95NitrHex	Frequency (MHz)	399.95	Nucleus	¹ H
Original Points Count	32768	Pulse Sequence	s2pul	Solvent	CHLOROFORM-D
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000	Number of Transients	32

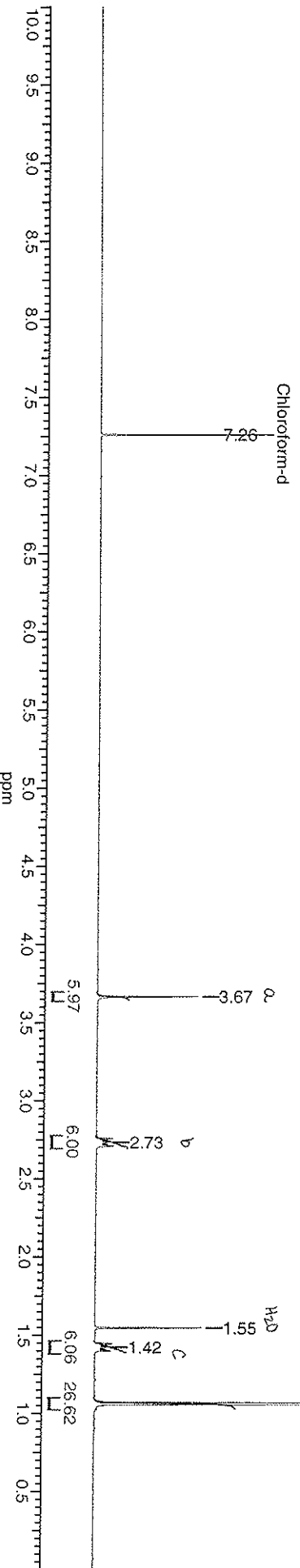
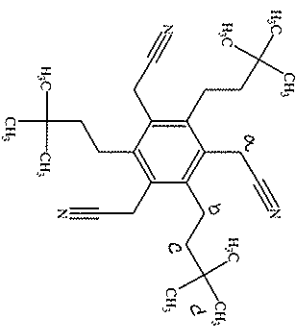
0.92(ddd, ¹H, J=7.32, 6.84 Hz)



Cyanide Addition t-Butyl

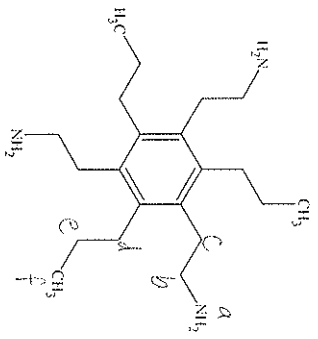
Meg Collins
MLC.II.209 Cyanide Addition t-Butyl

Acquisition Time (sec)	2.0480	Comment	MLC.II.209 Cyanide Addition t-Butyl	Date	May 15 2003	
File Name	E:\209CyanAddtBut	Points Count	32768	Nucleus	¹ H	
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	CHLOROFORM-D	
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul	
					Number of Transients	32

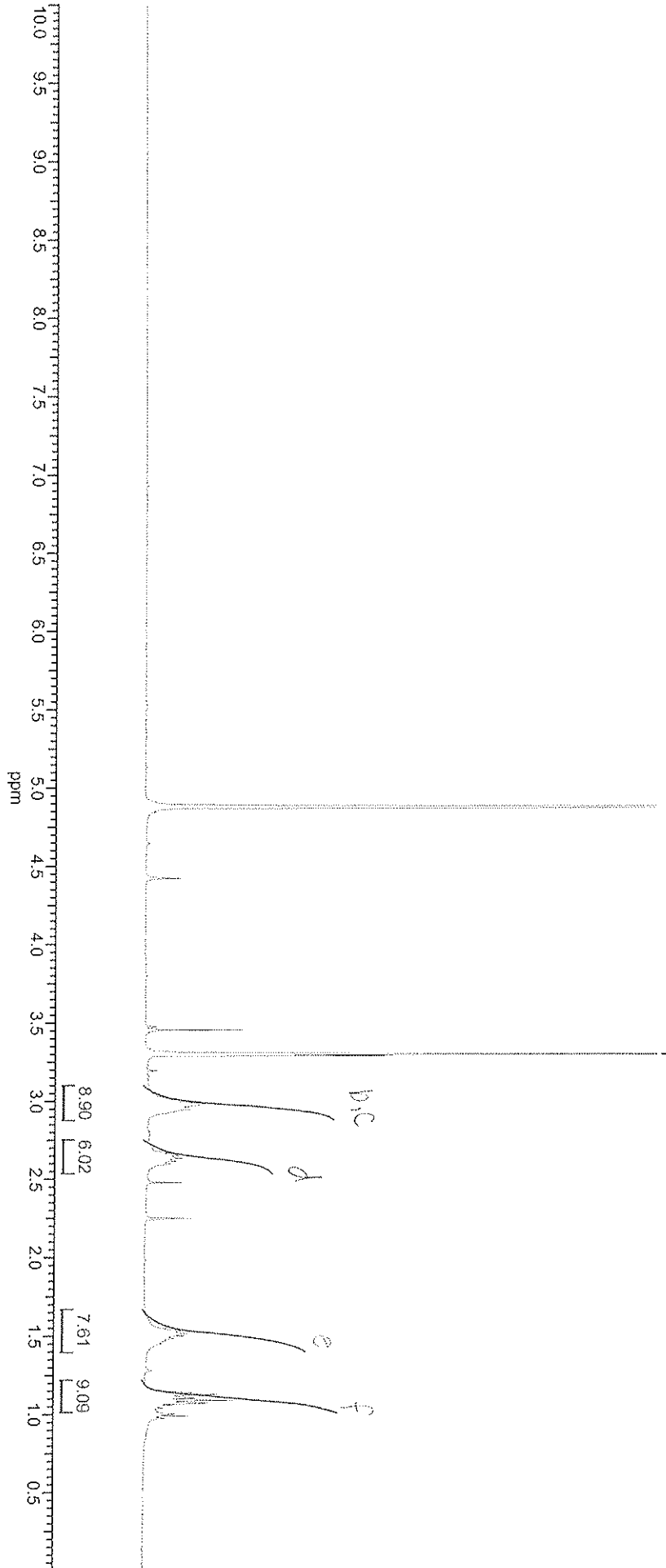


Propyl Aminoethyl

Acquisition Time (sec)	2.0480	Comment	STANDARD PROTON PARAMETERS	Date	Sep 10 2007
File Name	hsunds4.scs	ujuc.edu\Katzellenbogen-vxr500\moores\ML Cpropyl		Frequency (MHz)	499.43
Nucleus	¹ H	Number of Transients	32	Points Count	32768
Pulse Sequence	s2pul	Solvent	METHANOL-D4	Sweep Width (Hz)	8000.00
Temperature (degree C)	29.000				



MeOH
Methanol-d4

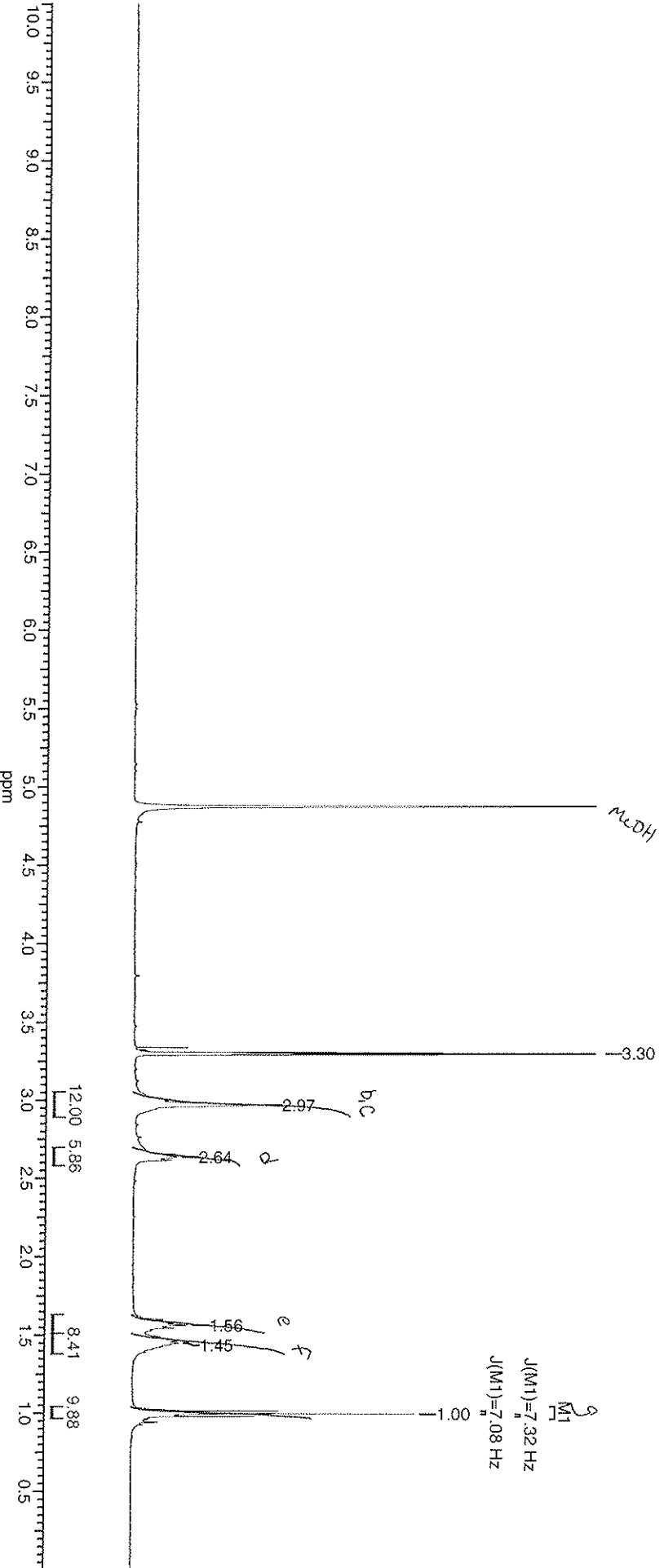
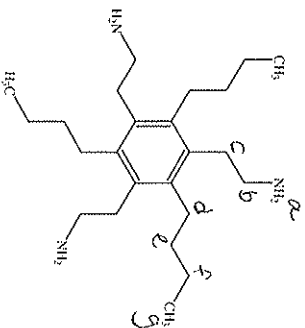


Aminoethyl Butyl

Meg Collins
MLC.II.181 Reduction Nitrite HCl Salt

Acquisition Time (sec)	2.0480	Comment	MLC.II.181 Reduction Nitrite HCl Salt	Date	May 7 2003	Number of Transients	32
File Name	E:\181RedNItHCl2	Points Count	32768	Nucleus	¹ H	Solvent	METHANOL-D4
Original Points Count	32768	Temperature (degree C)	29.000	Frequency (MHz)	399.95	Pulse Sequence	s2pul
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000	Temperature (degree C)	29.000		

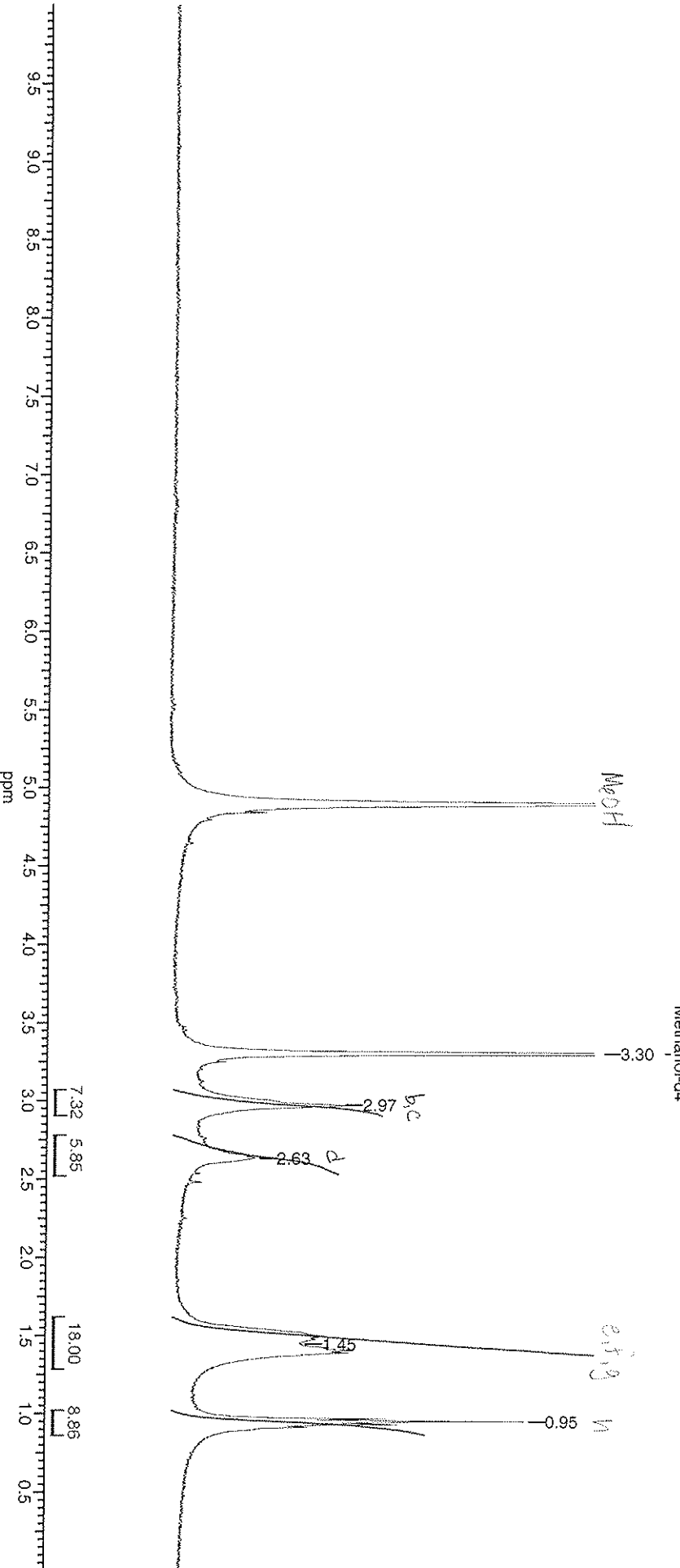
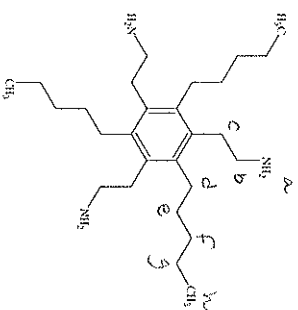
1.00(t, 2H, J=7.20 Hz)



Pentyl Aminoethyl

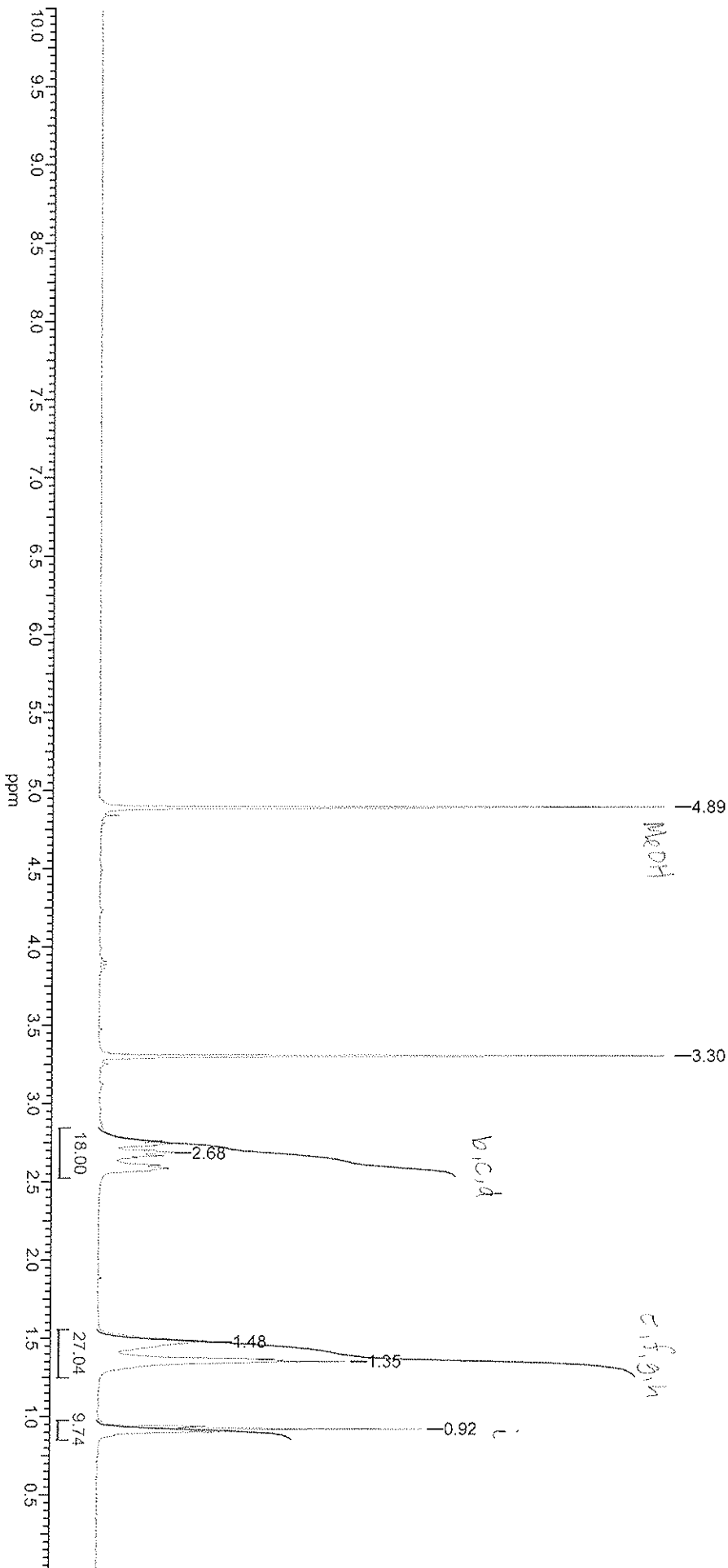
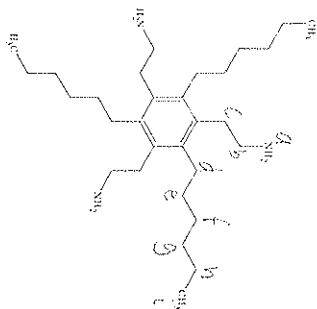
Meq Collins
MLC.III.91 Pentyl Aminoethyl

Acquisition Time (sec)	2.0480	Comment	MLC.III.91 Pentyl Aminoethyl	Date	Aug 11 2004
File Name	Z:\91PentAmEih	Frequency (MHz)	399.95	Nucleus	¹ H
Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Sweep Width (Hz)	8000.00	Temperature (degree C)	29.000	Solvent	METHANOL-D4
				Number of Transients	32



Hexyl Aminoethyl

Acquisition Time (sec)	2.0480	Comment	MLC.III.101	Reduction Nitrite Hexyl	Date	Aug 10 2004	Number of Transients	32
File Name	Z:\101RedNitHexPl	Points Count	32768	Frequency (MHz)	Nucleus	1H		
Original Points Count	32768	Temperature (degree C)	29.000	Pulse Sequence	Solvent	METHANOL-D4		
Sweep Width (Hz)	8000.00							



Neohexyl Ethylamine

Meg Collins
MLC.III.63 Neohexyl Ethylamine

Acquisition Time (sec)	2.0480	Comment	MLC.III.63 Neohexyl Ethylamine	Date	May 15 2004
File Name	E:\63NeohexEthAmin	Points Count	32768	Nucleus	¹ H
Original Points Count	32768	Temperature (degree C)	29.000	Solvent	METHANOL-D4
Sweep Width (Hz)	8000.00	Frequency (MHz)	399.95	Pulse Sequence	s2pul
					Number of Transients
					32

