

Supporting Information

Synthesis and X-Ray Structural Analysis of Platinum and Ethynyl-Platinum Corannulenes: Supramolecular Tectons

Roman Maag,^a Brian H. Northrop,^b Anna Butterfield,^a Anthony Linden,^a Oliver Zerbe,^a
Young Min Lee,^c Ki-Wan Chi,^c Peter J. Stang,^{b*} Jay S. Siegel^a

^a Organic Chemistry Institute, University of Zurich, Winterthurerstrasse 190, 8057 Switzerland.

Fax: +41 44 635 4281; Tel: +41 44 635 4281; E-mail: jss@oci.uzh.ch

^b Department of Chemistry, University of Utah, Salt Lake City, Utah 84107. E-mail: stang@chem.utah.edu

^c Department of Chemistry, University of Ulsan, Ulsan 680-749 Republic of Korea.

Spectral data for compound **1** (spectra recorded at 400 MHz Bruker Spectrometer (¹H), except for the ¹³C spectrum that was measured at 600 MHz. All spectra were taken at 295 K in CD₂Cl₂. Proton chemical shifts were referenced to internal TMS and ³¹P shifts to external H₃PO₄ (65%). The mixing times for the ¹H EXSY and ³¹P EXSY experiments were 700 and 200ms, respectively):

¹ H NMR and ¹ H NMR { ³¹ P} spectrum	3-5
³¹ P, ¹ H-HSQC	6
¹ H EXSY spectrum	7
³¹ P { ¹ H} NMR spectrum	8-10
³¹ P-COSY NMR spectrum	11-12
³¹ P EXSY spectrum	13-15
¹³ C { ¹ H} NMR spectrum	16
HR-ESI mass spectrum	17-20

Spectral data for compound **2** (spectra recorded at 400 MHz Bruker Spectrometer (¹H), except for the ¹³C spectrum that was measured at 600 MHz. All spectra were taken at 300 K in CDCl₃. Proton chemical shifts were referenced to residual CHCl₃ and ³¹P shifts to external H₃PO₄ (65%)):

¹ H NMR spectrum	21
¹³ C { ¹ H} NMR spectrum	22
³¹ P { ¹ H} NMR spectrum	23
HR-ESI mass spectrum	24-27

Spectral data for compound **6a** (spectra recorded at 400 MHz Bruker Spectrometer (¹H), except for the ¹³C spectrum that was measured at 600 MHz. All spectra were taken at 300 K in C₆D₆ (¹H) and CDCl₃ (¹³C, ³¹P). Proton chemical shifts were referenced to residual C₆H₆ and ³¹P shifts to external H₃PO₄ (65%)):

¹ H NMR spectrum	28
¹³ C { ¹ H} NMR spectrum	29
³¹ P { ¹ H} NMR spectrum	30
³¹ P { ¹ H} VT-NMR spectrum	31
HR-ESI mass spectrum	32-37

Spectral data for compound **8** (spectra recorded at 500 MHz Bruker Spectrometer (^1H), except for the ^{13}C spectrum that was measured at 600 MHz. All spectra were taken at 300 K in CDCl_3 . Proton chemical shifts were referenced to internal TMS and ^{31}P shifts to external H_3PO_4 (65%)):

^1H NMR spectrum	38
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum	39
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum	40
HR-ESI mass spectrum	41-44

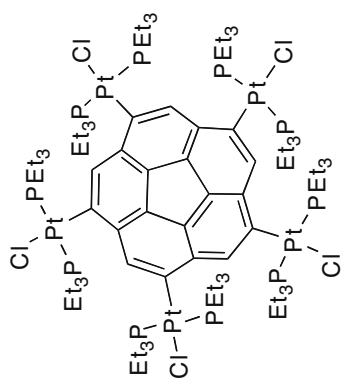
Spectral data for compound **9** (spectra recorded at 400 MHz Bruker Spectrometer (^1H), except for the ^{31}P spectrum that was measured at 500 MHz. All spectra were taken at 300 K in CDCl_3 . Proton chemical shifts were referenced to internal TMS and ^{31}P shifts to external H_3PO_4 (65%)):

^1H NMR spectrum	45
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum	46
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum	47
HR-ESI spectrum	48-51

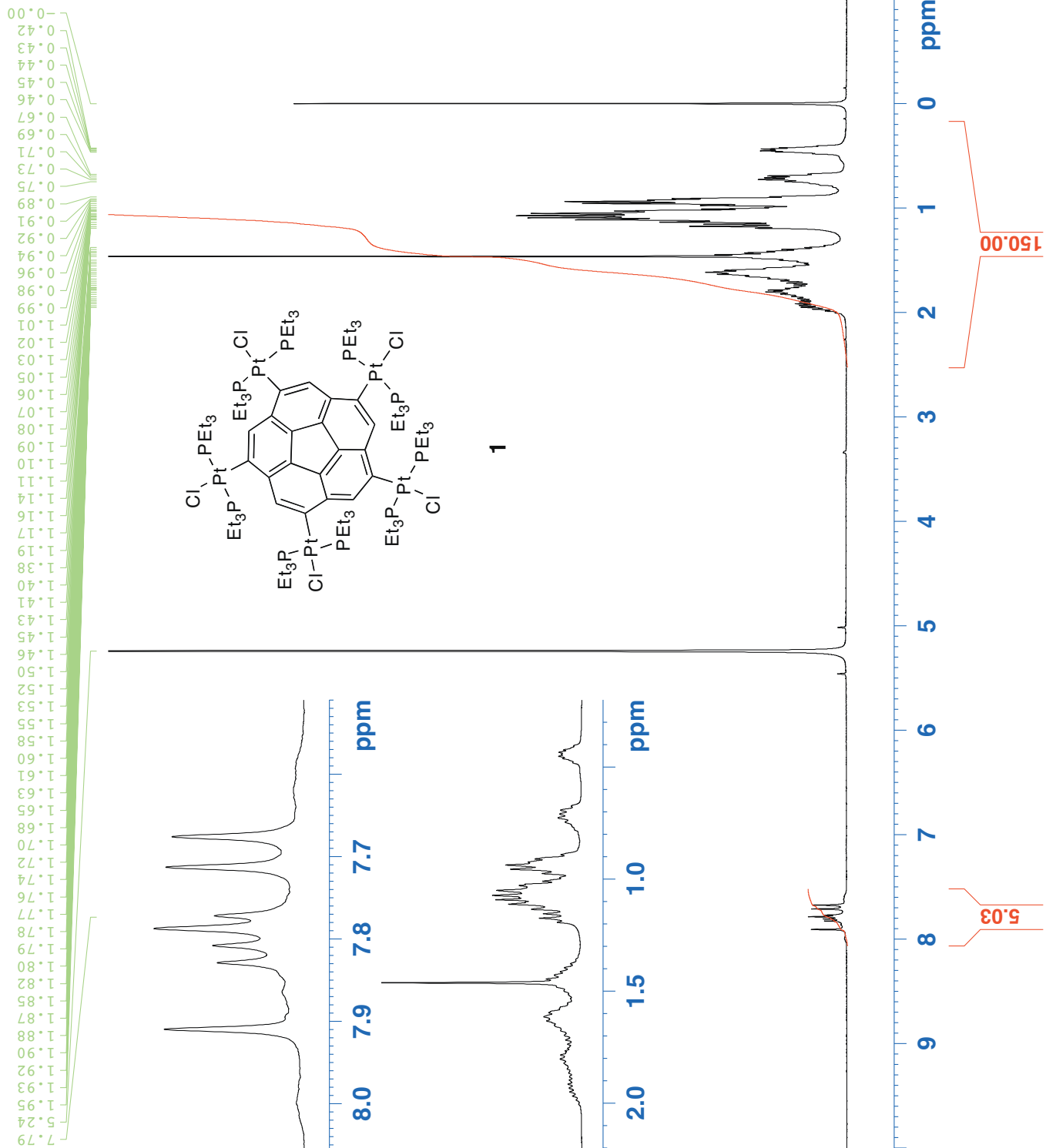


NAME ABII-76A
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 PROCNO 1
 Date_ 20090505
 Time 9.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 CD2CL2
 NS 128
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 4
 DW 60.800 usec
 DE 6.00 usec
 TE 295.0 K
 D1 3.0000000 sec
 TD0 1

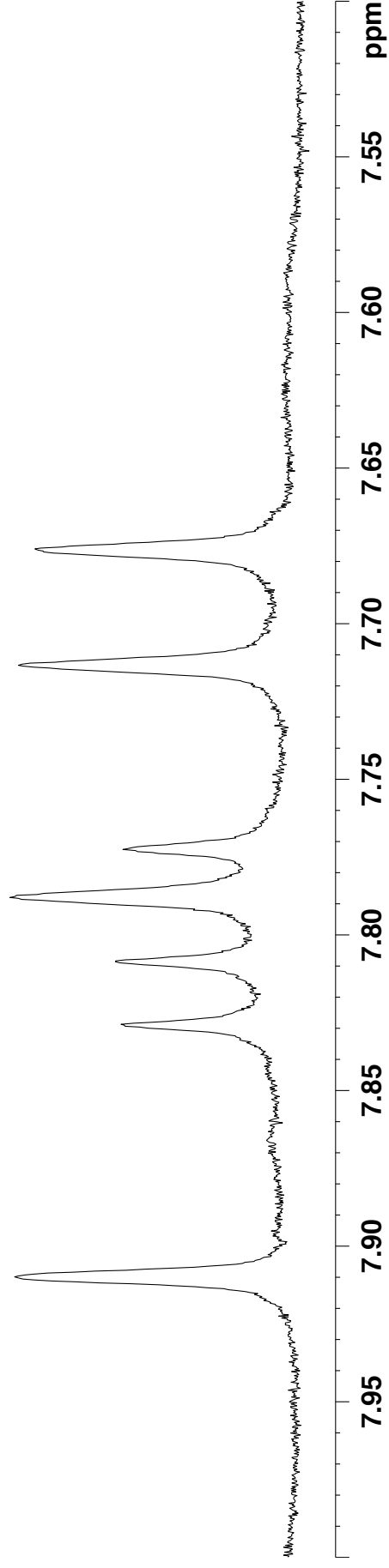
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 SF 400.2300494 MHz
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 SSB 1.00 Hz
 LB 0
 GB 0
 PC 1.00



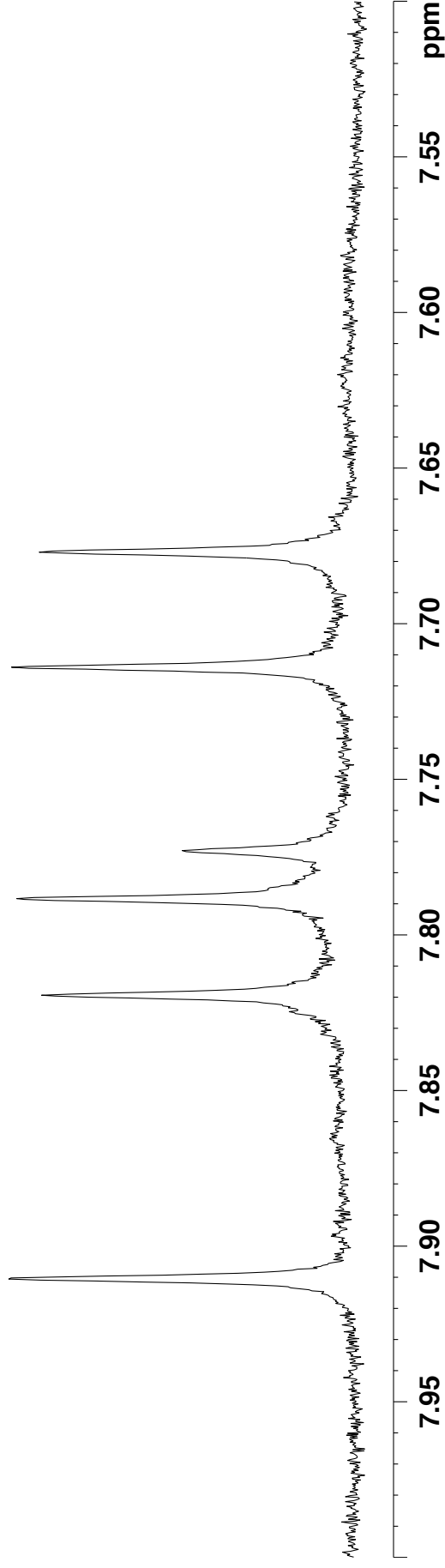
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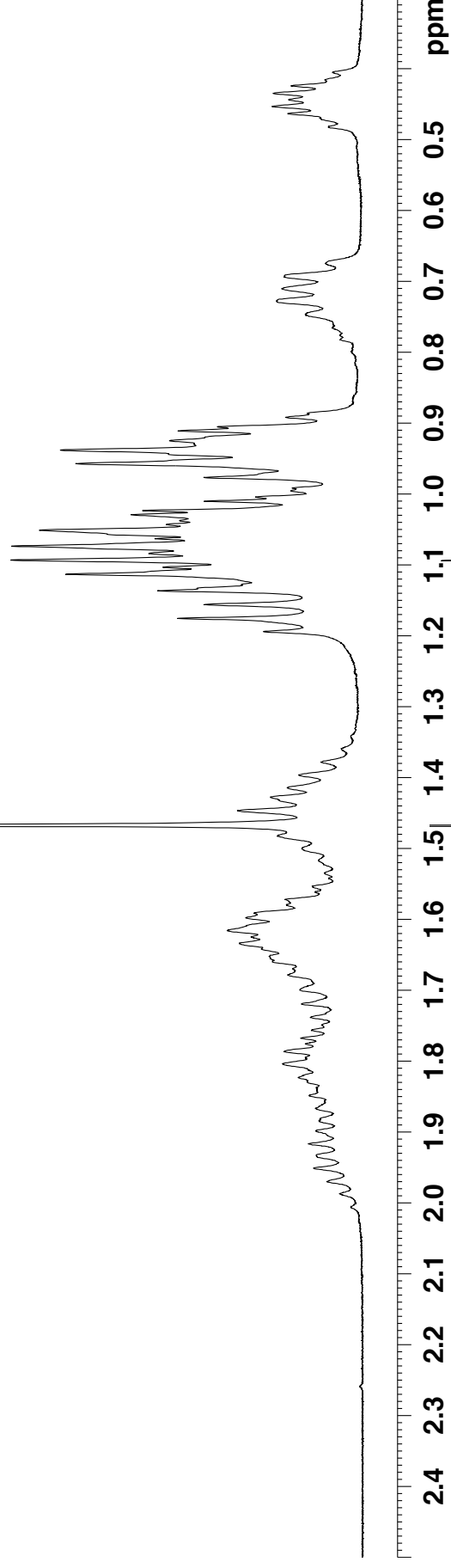
AV2-400: 1H of ABII-76A, 295K, CD2Cl2, 11.05.09



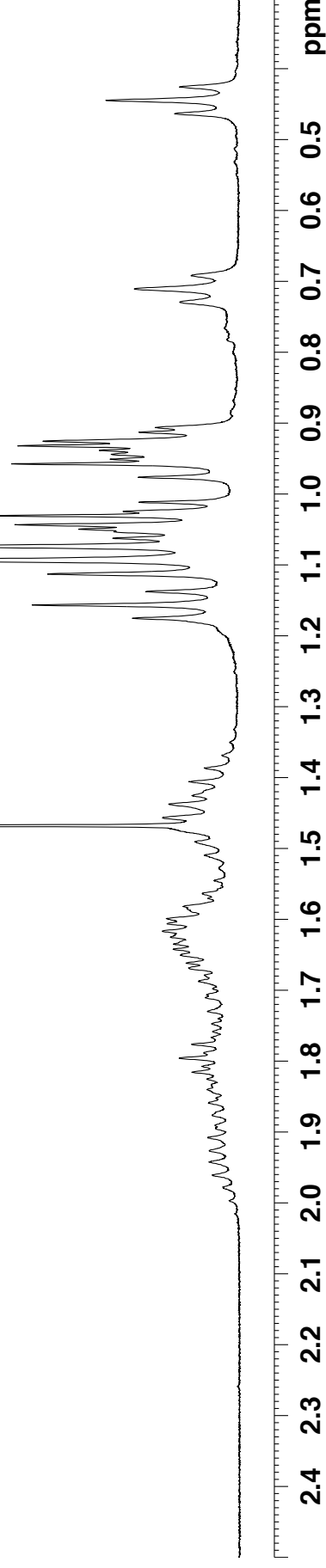
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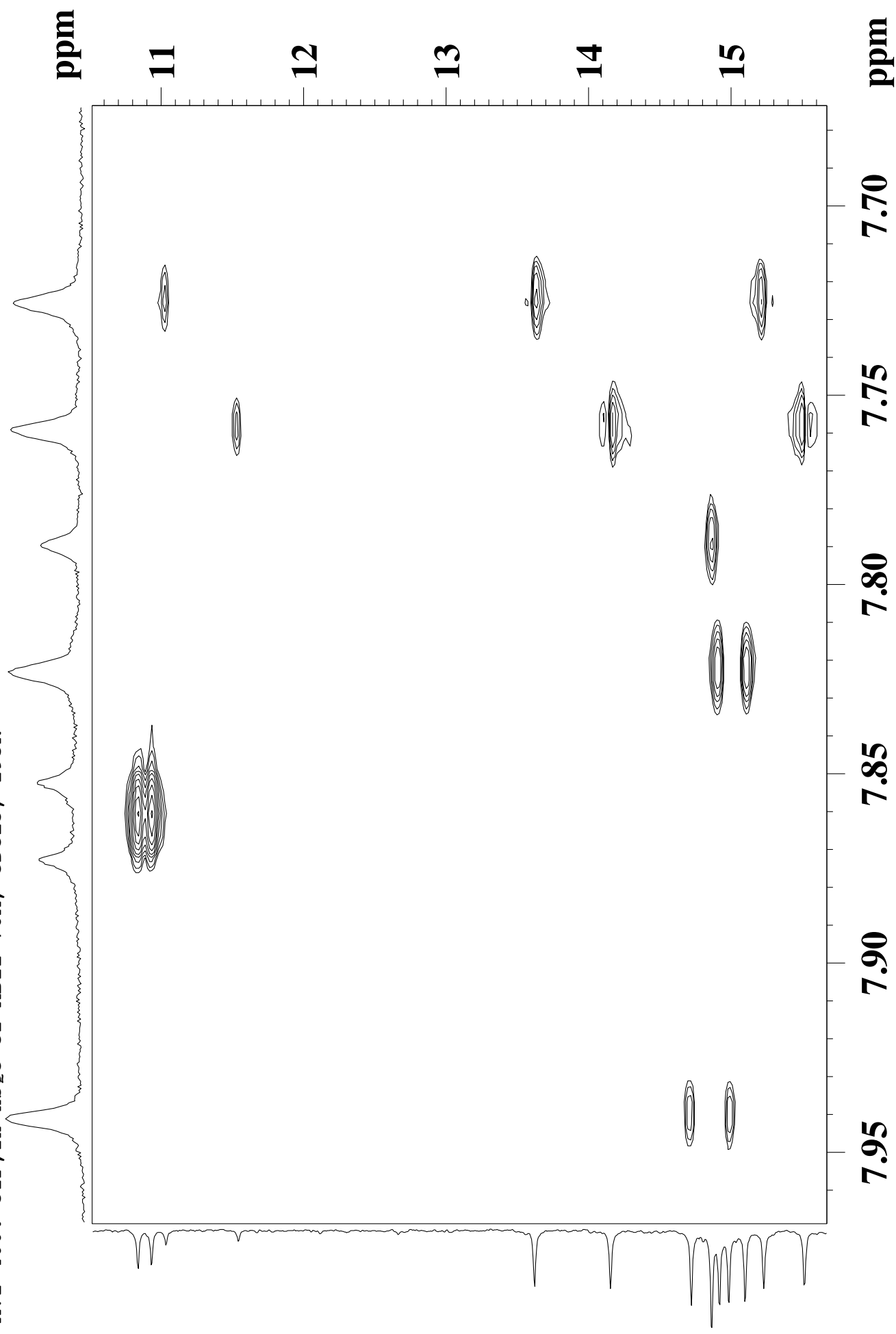
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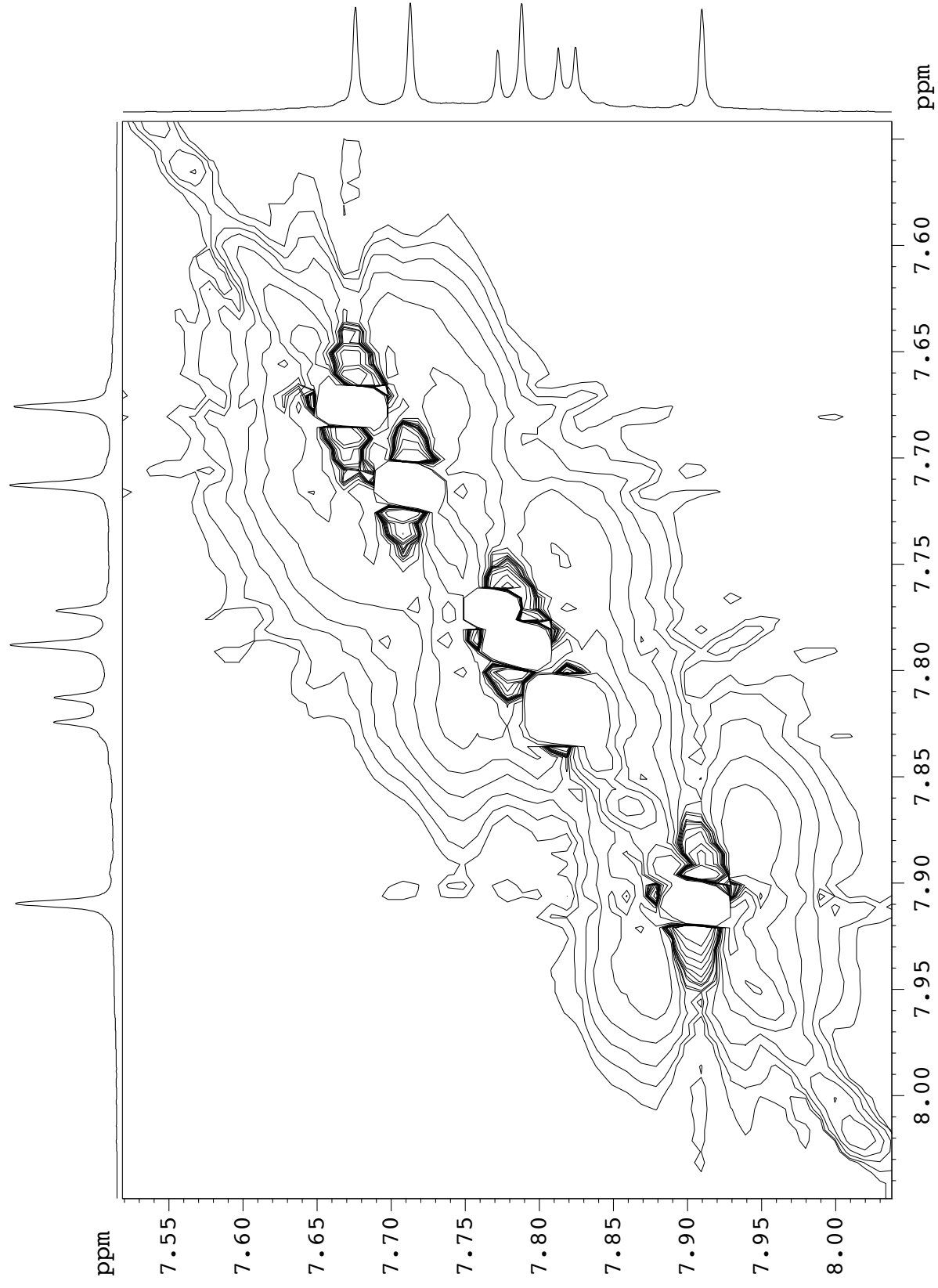
AV2!400: 1H{31P} of ABII!76A, 295K, CD2Cl2, 3.6.09



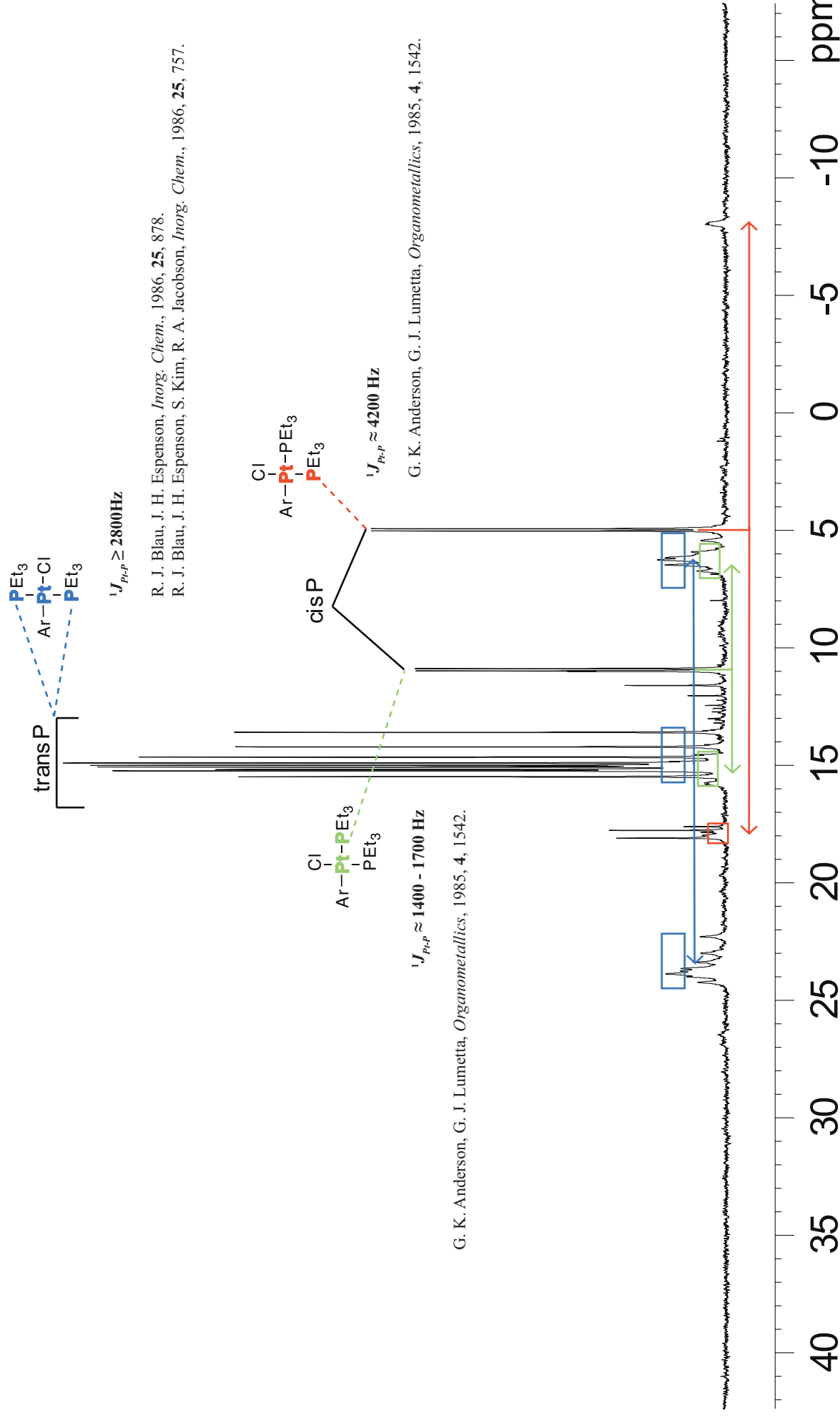
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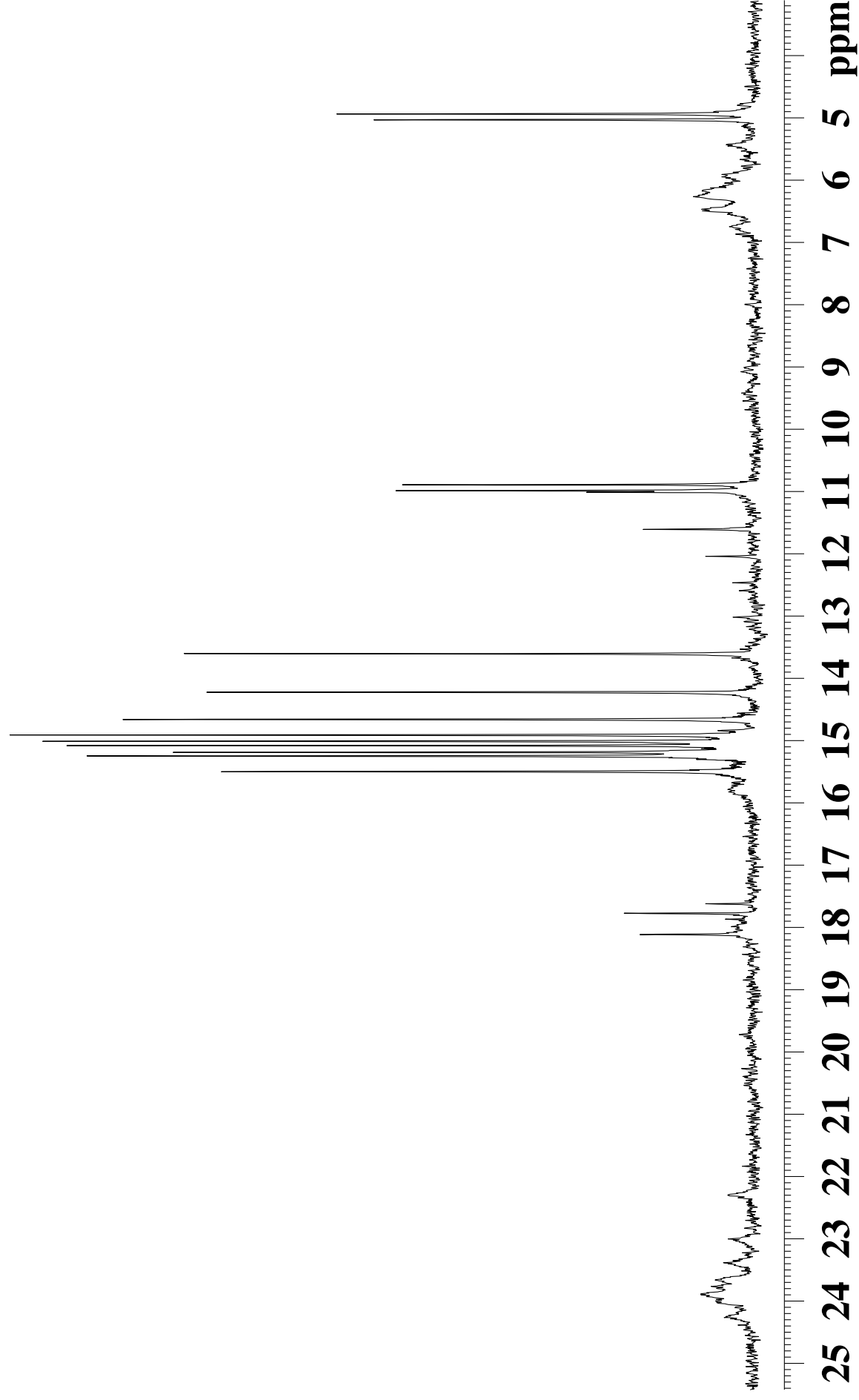
AVI700: EXSY of ABII!76A, CDCl₂, 295K, 6.5.09



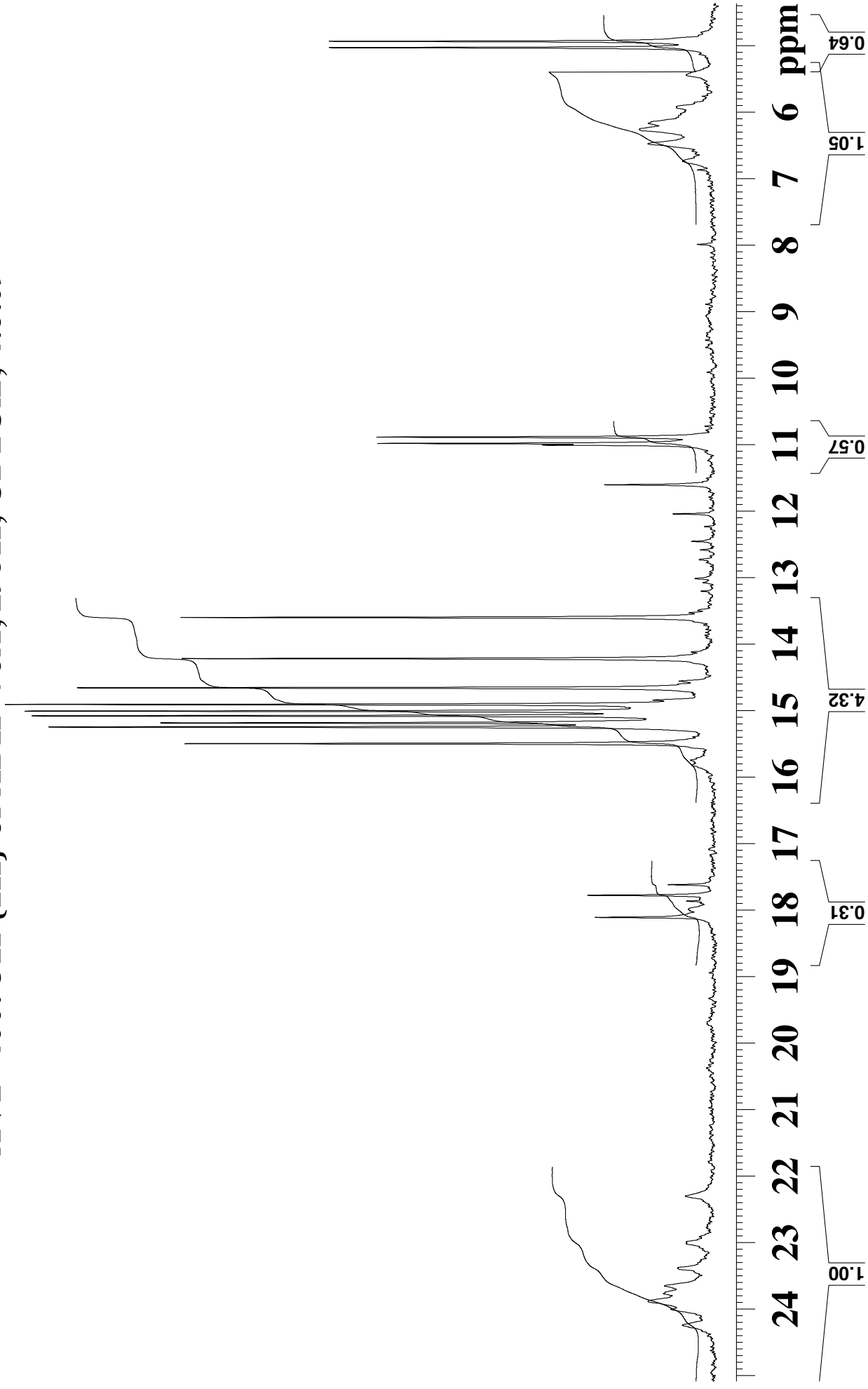
AV2-400: $^{31}\text{P}\{^1\text{H}\}$ of ABII-76A, 295K, CD_2Cl_2 , 4.6.09



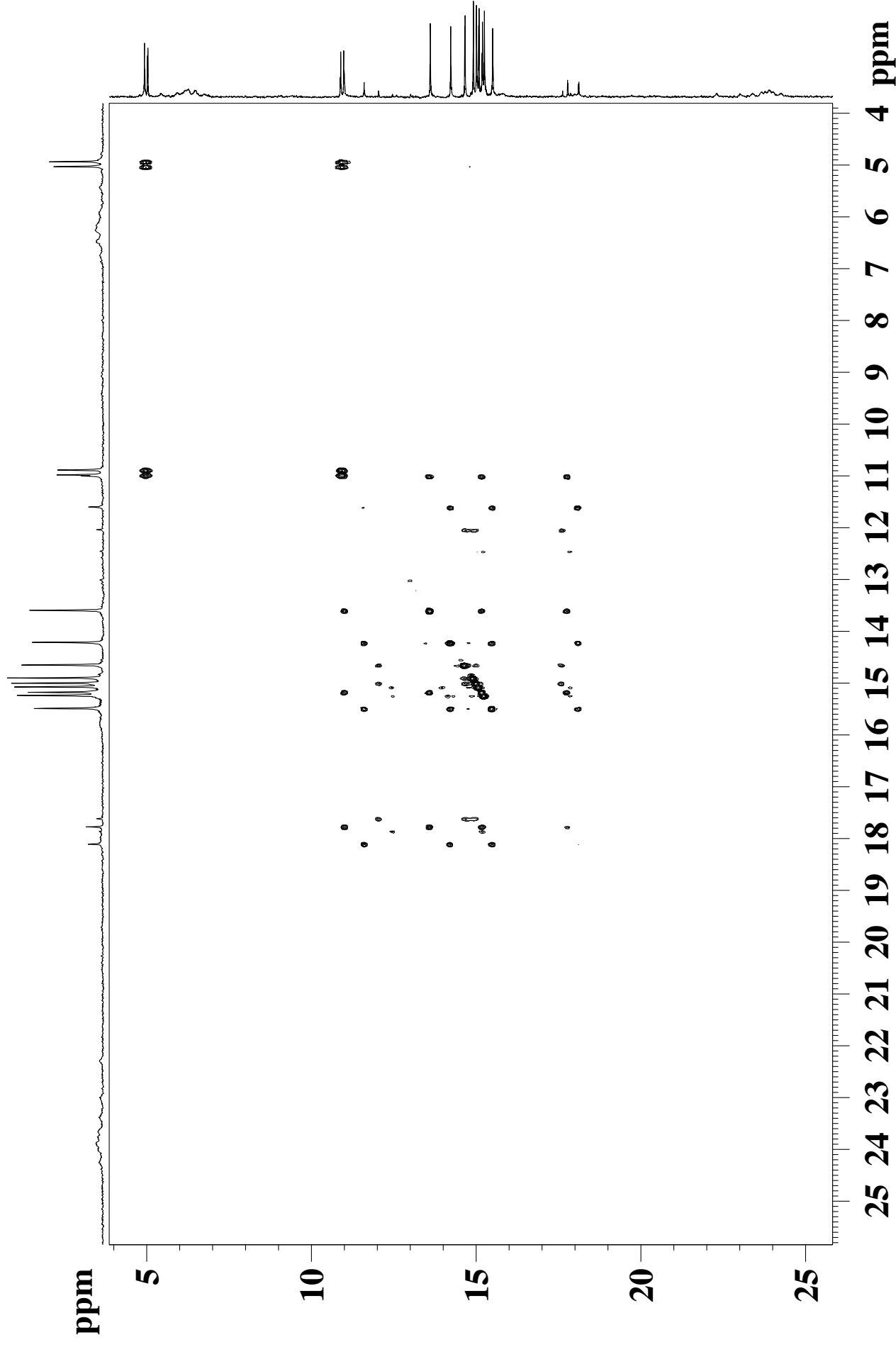
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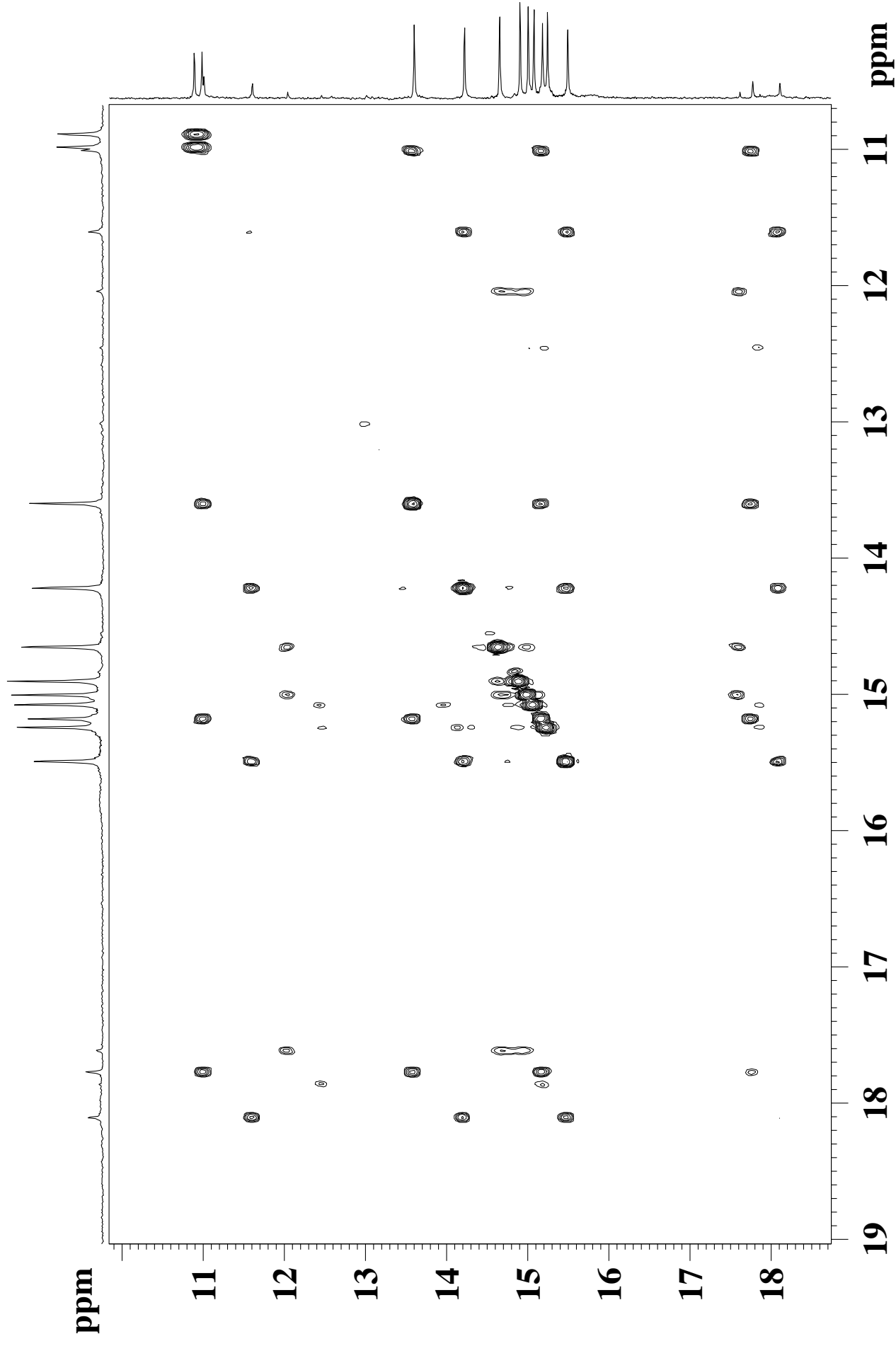
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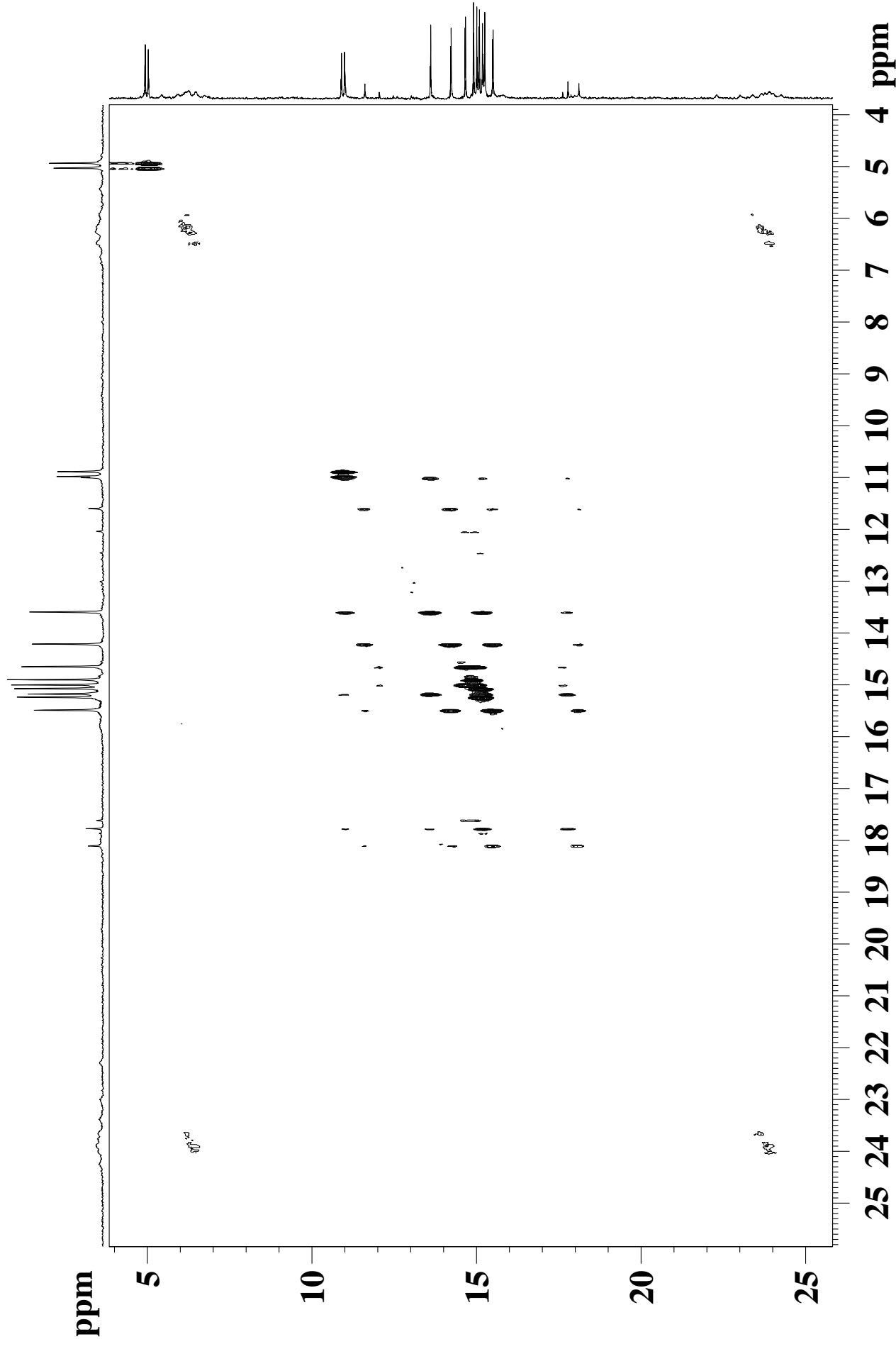
AV2-400: 31P-COSY of ABII-76A, 295K, CD2Cl2, 8.5.09



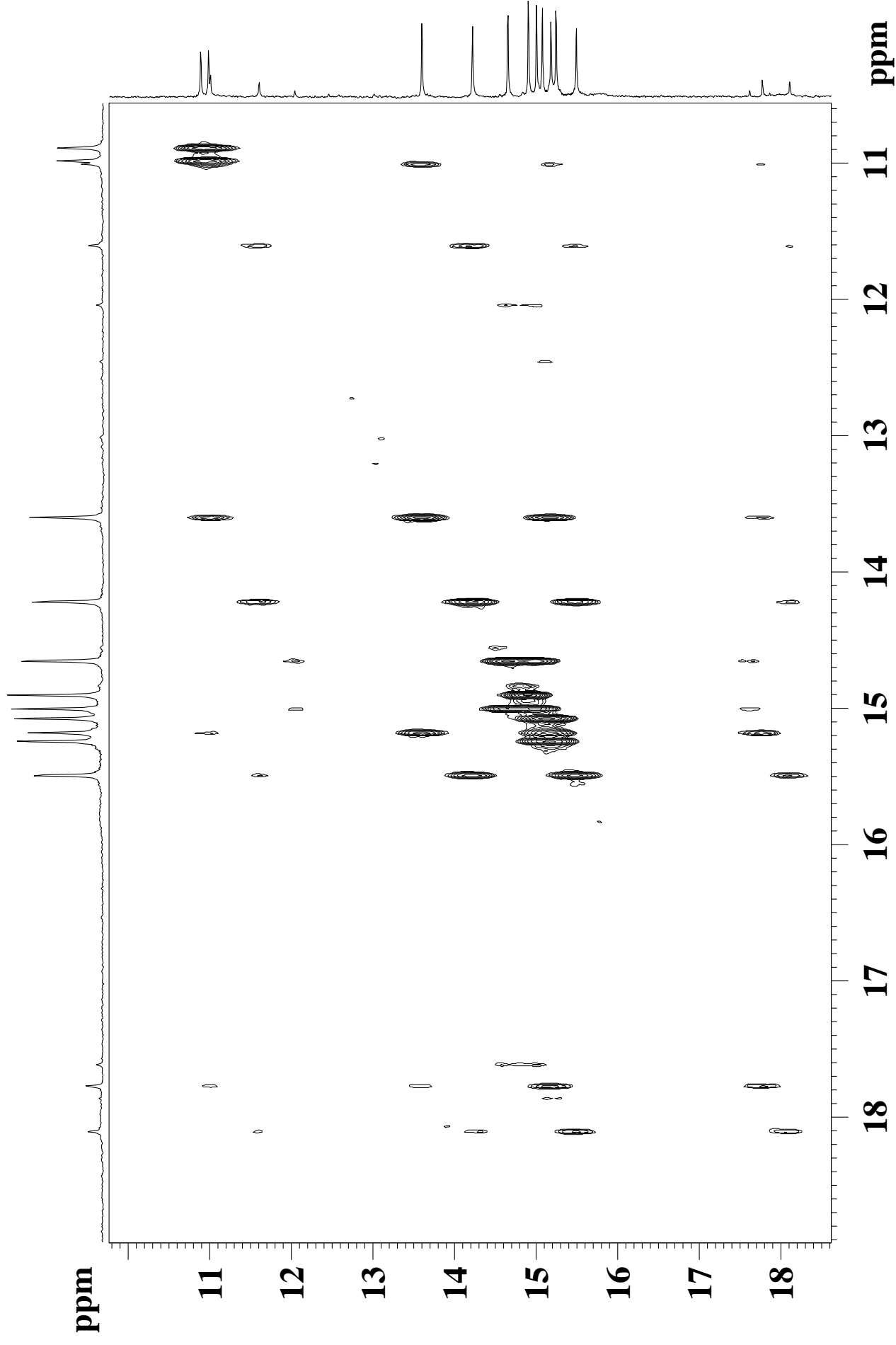
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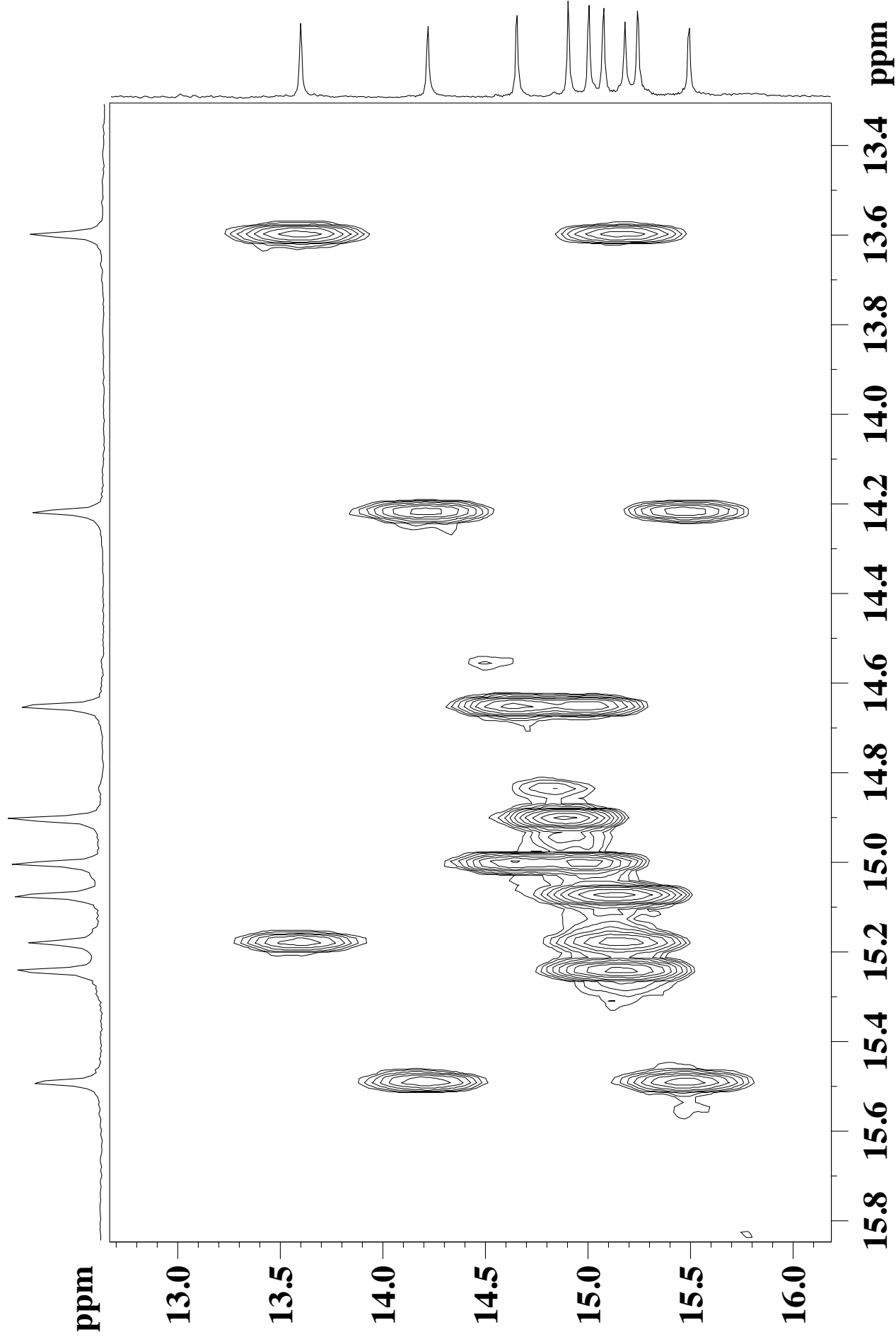
AV2-400: 31P-EXSY of ABII-76A, 295K, CD2Cl2, 11.5.09



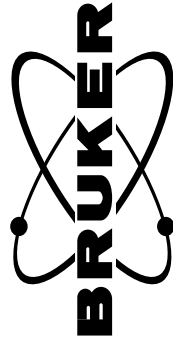
AV2-400: 31P-EXSY of ABII-76A, 295K, CD2Cl2, 11.5.09



AV2-400: 31P-EXSY of ABII-76A, 295K, CD2Cl2, 11.5.09



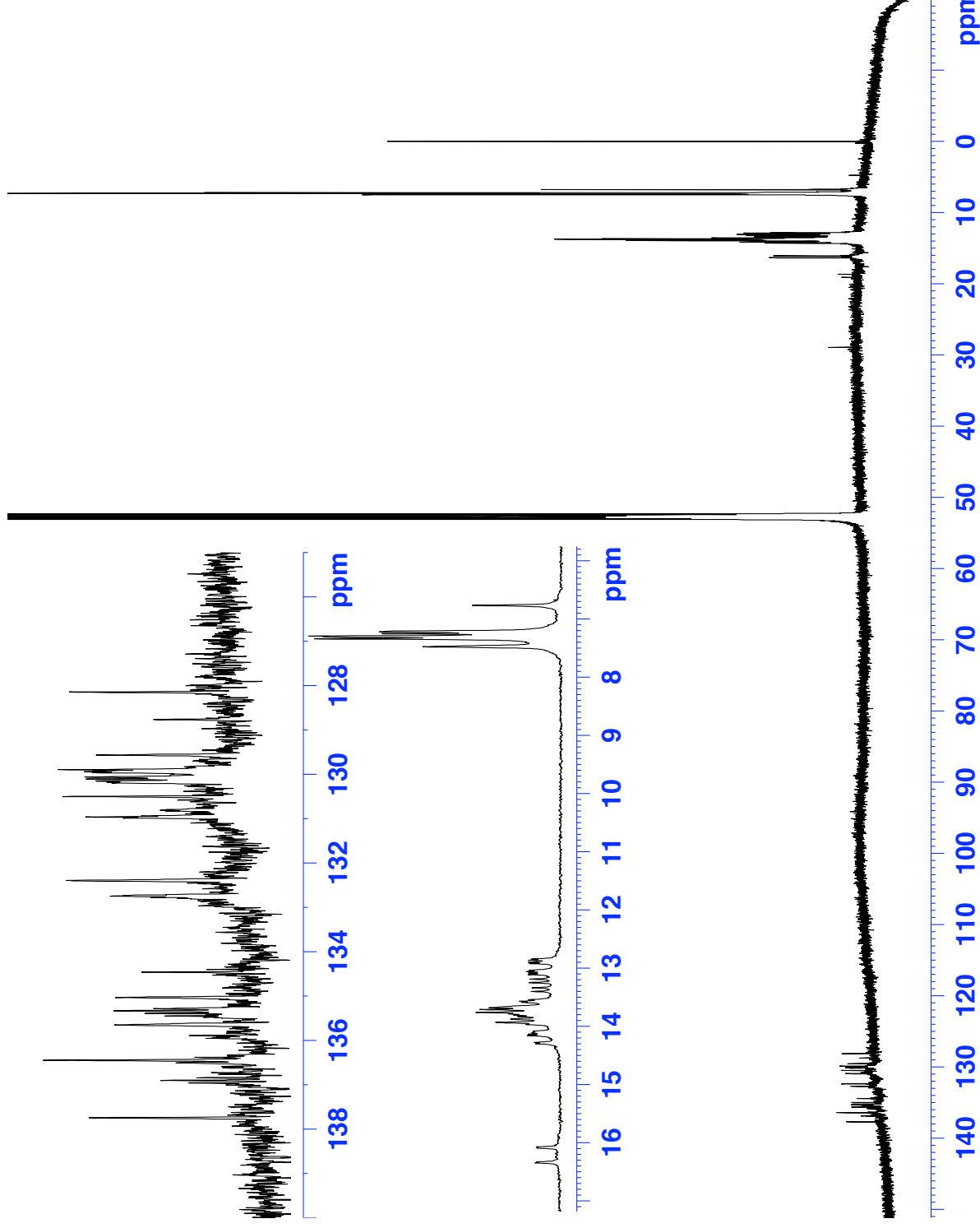
AV-600 : $^{13}\text{C}\{^1\text{H}\}$ of ABII-76A (CD₂Cl₂, 295K, 15.07.2009)



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EXPNO 61
PROCNO 1
Date_ 20090715
Time_ 10.20
INSTRUM AV600
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg30
TD 65536
SOLVENT CD₂Cl₂
NS 6058
DS 32
SWH 39370.078 Hz
FIDRES 0.600740 Hz
AQ 0.8323699 sec
RG 5792.6
DW 12.700 usec
DE 6.00 usec
TE 295.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 ^{13}C
P1 13.60 usec
PL1 1.00 dB
PL1W 61.05502701 W
SFO1 150.9445560 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 75.00 usec
PL2 3.00 dB
PL12 23.29 dB
PL13 26.00 dB
PL2W 7.49060631 W
PL12W 0.07006754 W
PL13W 0.03754196 W
SFO2 600.2324010 MHz
SI 65536
SF 150.9280696 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 0.00



Mass Spectrum SmartFormula Report

Analysis Info

Analysis Name D:\Data\Service\0310sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-ab76
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 10:52:04 AM

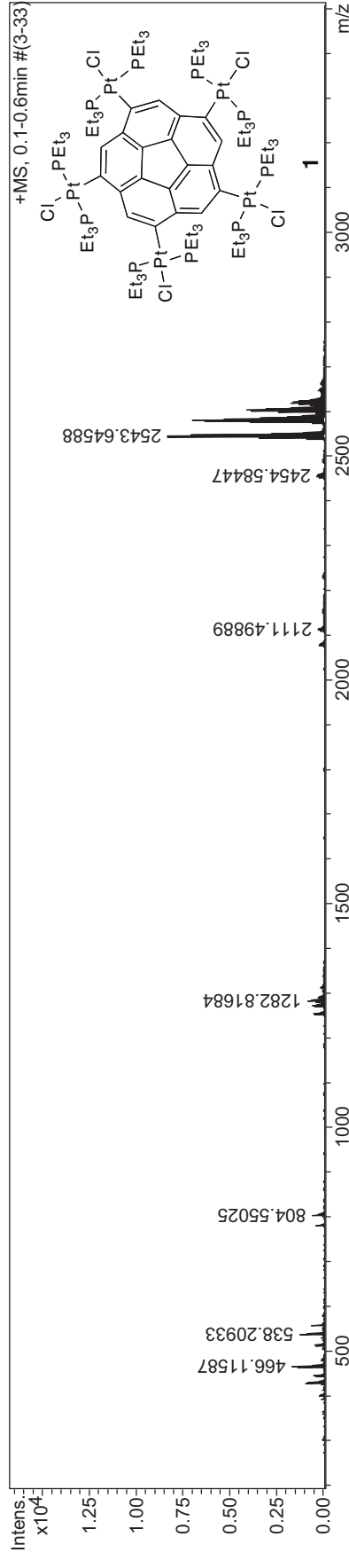
Operator ust
Instrument / Ser# maXis 33

Acquisition Parameter

Source Type ESI
Focus Not active
Scan Begin 200 m/z
Scan End 3500 m/z

Ion Polarity Positive
Set Capillary 4000 V
Set End Plate Offset -500 V
Set Collision Cell RF 300.0 Vpp

Set Nebulizer 0.4 Bar
Set Dry Heater 180 °C
Set Dry Gas 4.0 l/min
Set Divert Valve Source



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdB	e ⁻ Conf	N-Rule
2541.64461	1	C 80 H 155 Cl 4 P 10 Pt 5	100.00	2540.64509	1.1	0.4	11.6	6.5	even	-
	2	C 70 H 151 Cl 2 P 10 Pt 6	13.43	2541.64116	-3.4	-1.4	15.6	-0.5	even	ok
	3	C 87 H 32 Cl 6 P 9 Pt 5	20.82	2539.64569	2.6	1.0	32.6	73.5	even	-
	4	C 89 H 144 Cl 3 P 8 Pt 5	53.19	2540.64335	-0.6	-0.3	48.0	20.5	even	-
	5	C 68 H 39 Cl 5 P 11 Pt 6	35.27	2540.64314	-0.8	-0.3	57.6	52.5	even	ok

Display Report

Analysis Info

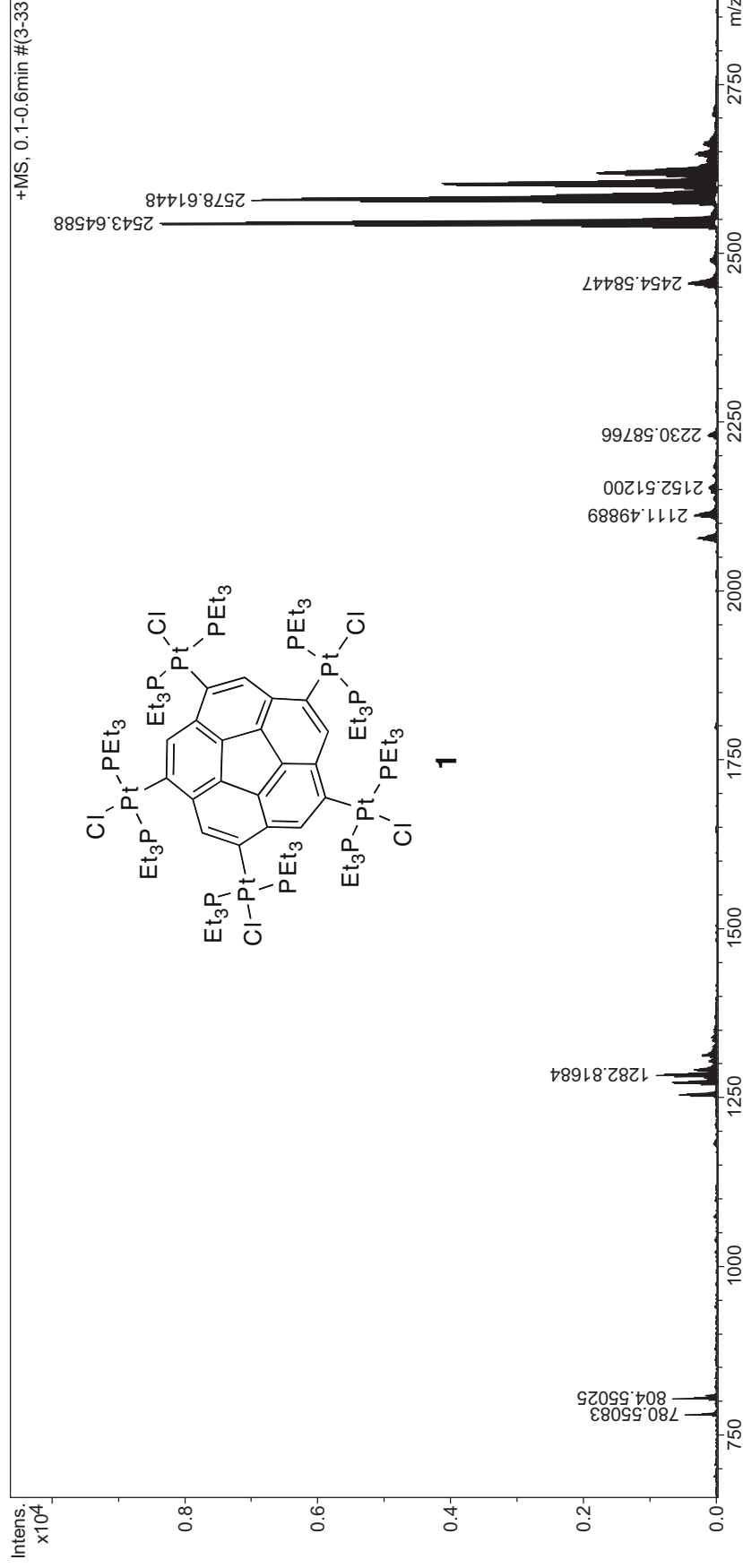
Analysis Name	Method	Sample Name	Comment
D:\Data\Service\0310shres.d	ESI_lowMR.m	rmm-2-ab76	solvent : MeCN client : Maag

Acquisition Date	7/21/2009 10:52:04 AM
Operator	ust
Instrument	maxis 333

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive
Focus	Not active	Set Capillary	4000 V
Scan Begin	200 m/z	Set End Plate Offset	-500 V
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp

Set Nebulizer	0.4 Bar
Set Dry Heater	180 °C
Set Dry Gas	4.0 l/min
Set Divert Valve	Source



Display Report

Analysis Info

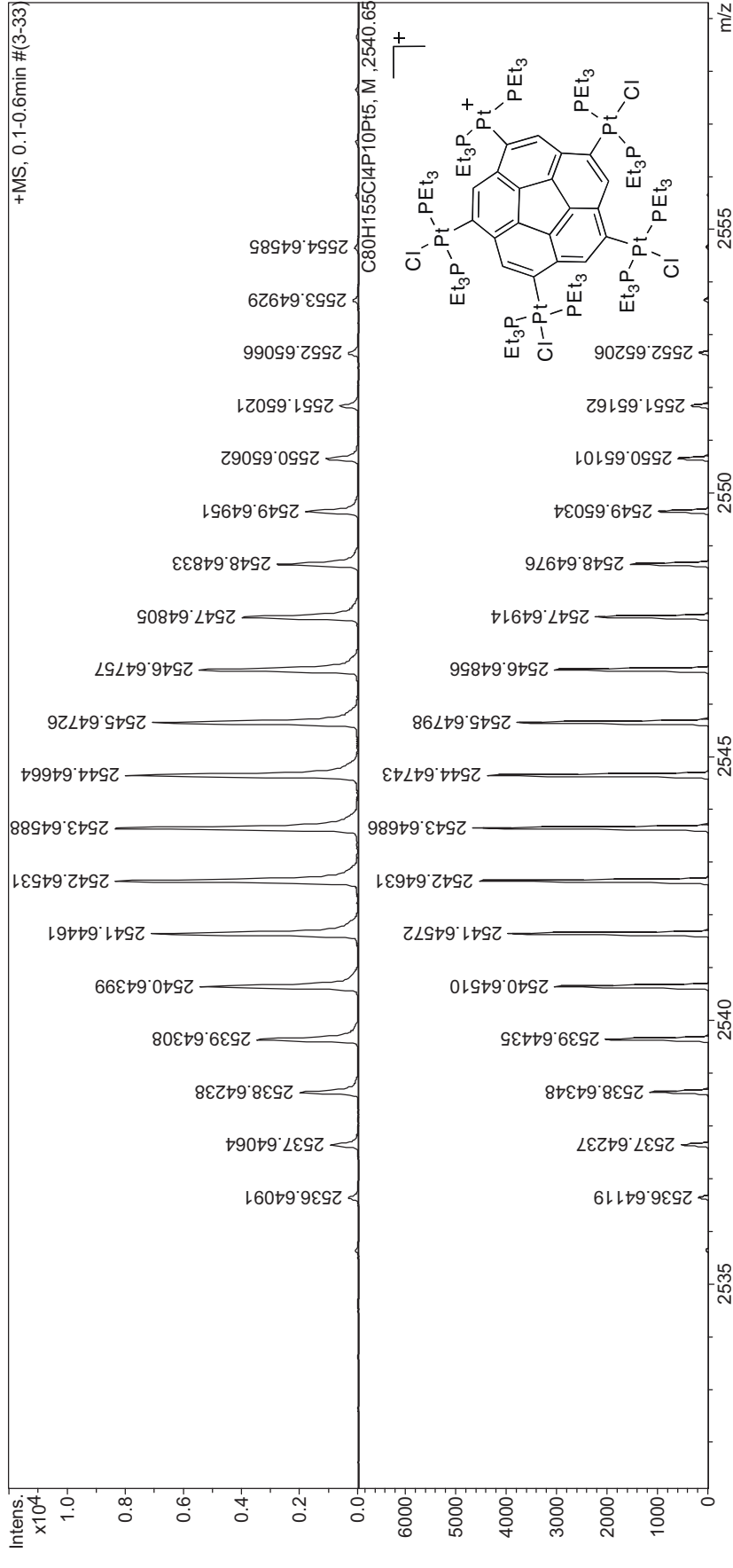
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Method ESI_lowMR.m
Sample Name rmm-2-ab76
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 10:52:04 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

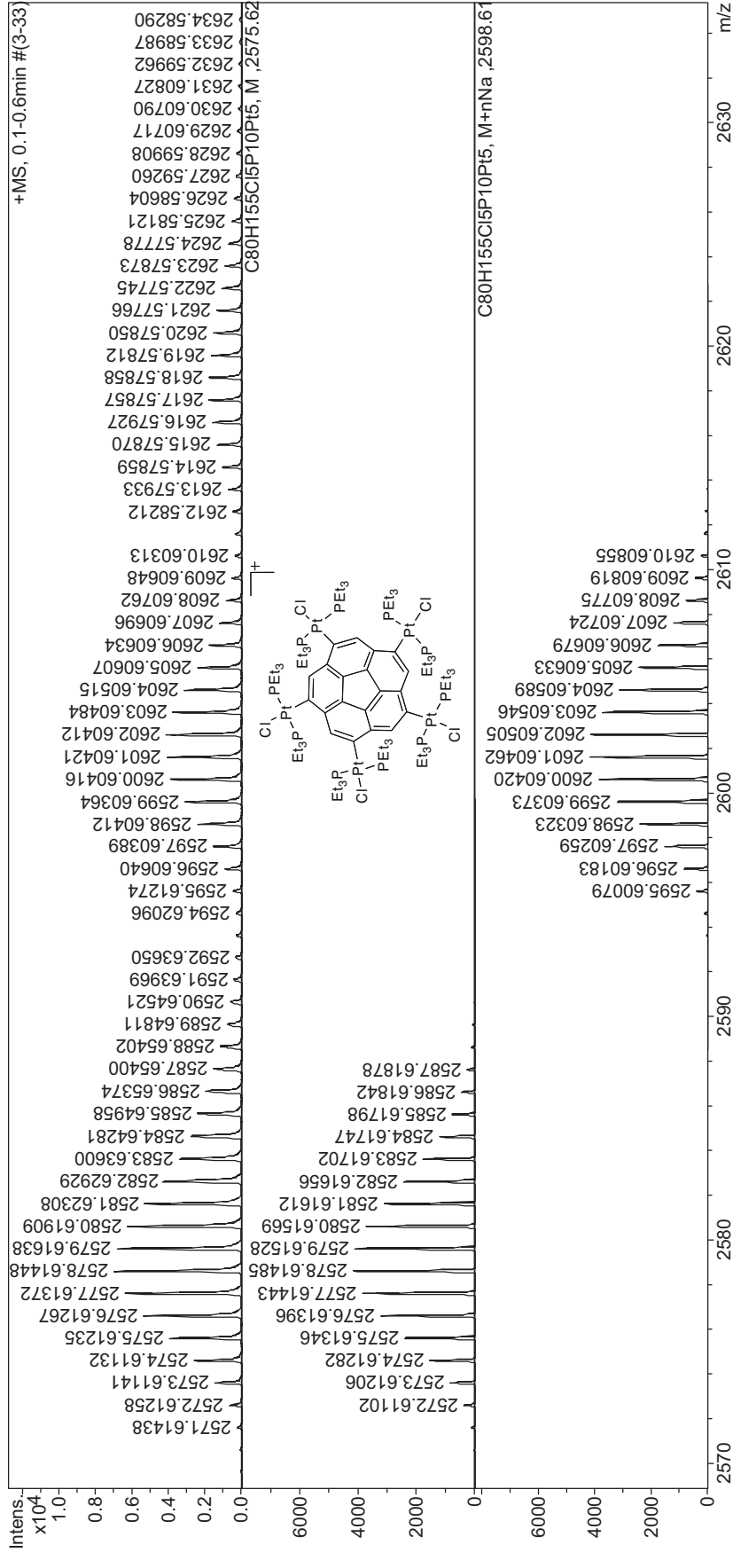
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Method ESI_lowMR.m
Sample Name rmm-2-ab76
Comment solvent : MeCN
client : Maag

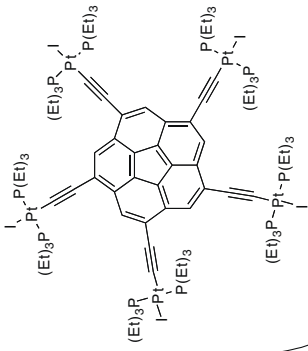
Acquisition Date 7/21/2009 10:52:04 AM

Operator ust
Instrument maXis 33

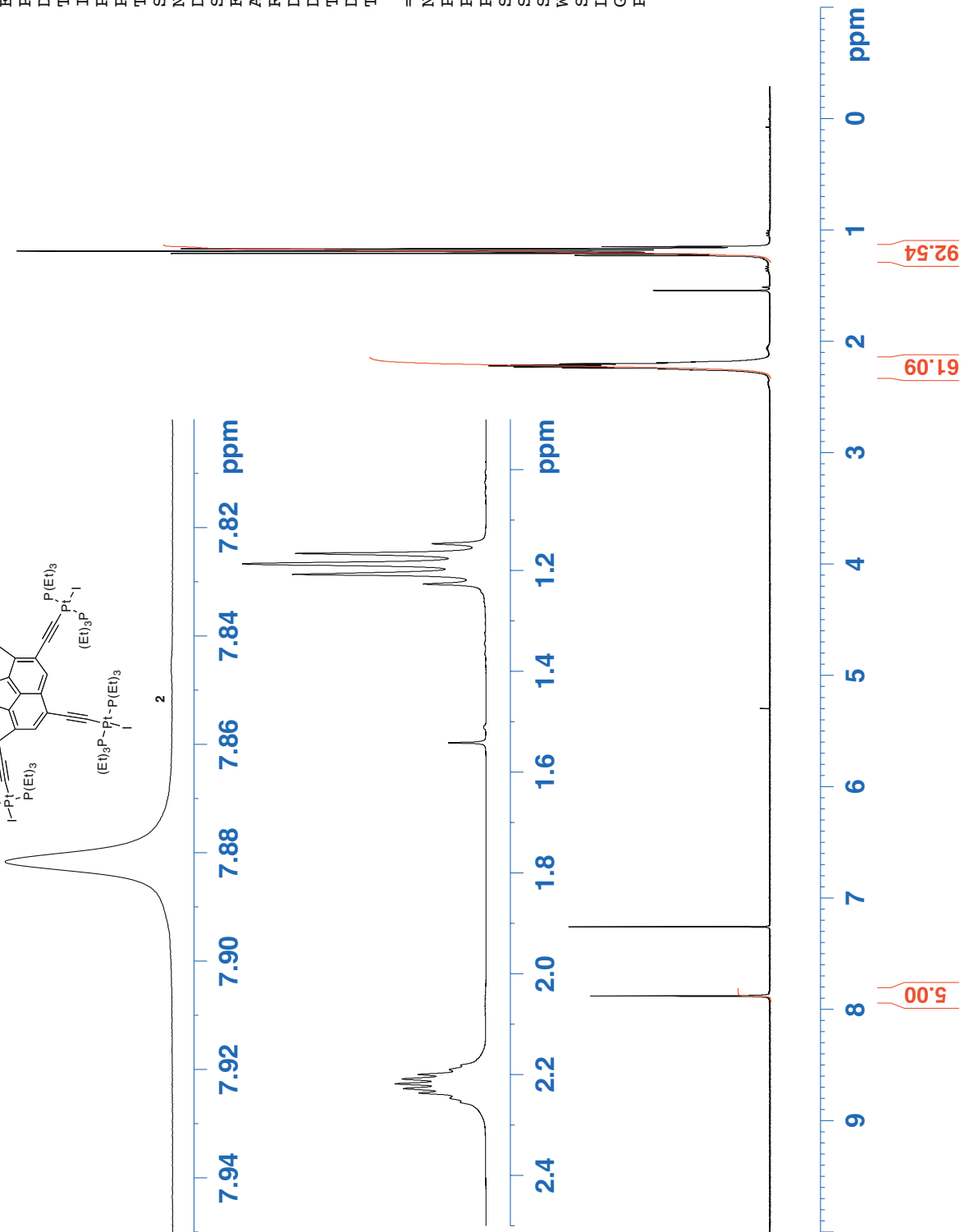
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



The Bruker logo, featuring the word "BRUKER" in a bold, sans-serif font, with a stylized atomic symbol (three orbits around a central nucleus) integrated into the letter "U".

NAME	rnm-2-277-2	
EXPNO	42	
PROCNO	1	
Date_	20090609	
Time_	14.39	
INSTRUM	spect	
PROBHD	5 mm PAQNP Swi	
PULPROG	zg30	
TD	65536	
SOLVENT	CDCl3	
NS	16	
DS	2	
SWH	4237.288	Hz
FIDRES	0.064656	Hz
AQ	7.7332978	sec
RG	203	
DW	118.000	usec
DE	6.00	usec
TE	300.0	K
D1	3.00000000	sec
TD0	1	
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NUC1	1H	
P1	12.00	usec
PL1	-3.00	dB
PLI1	13.43181801	W
SFO1	400.1320105	MHz
SI	65536	
SF	400.1300100	MHz
WDW	no	
SSB	0	
LB	0.00	Hz
GB	0	
PC	1.00	



AV-600: 13C{1H} of rmm_2_277 (2, 22.4mg in CDCl3, 300K)



NAME I26rmm_2_277
EXPNO 61
PROCNO 1
Date_ 20090622
Time 23.50
INSTRUM AV600
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 12288
DS 32
SWH 39370.078 Hz
FIDRES 0.600740 Hz
AQ 0.8323699 sec
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DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

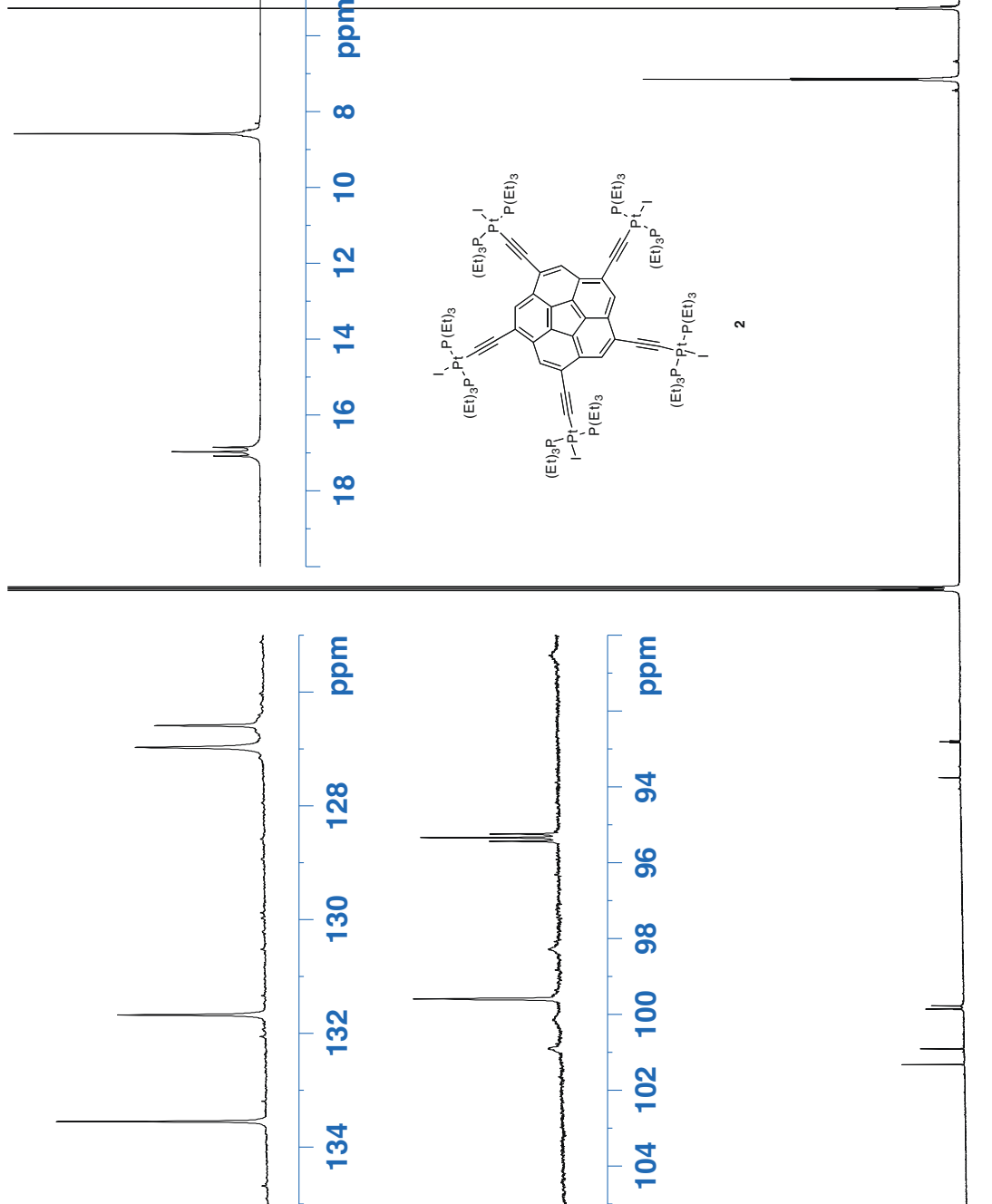
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P1 13.60 usec
PL1 1.00 dB
PL1W 61.05502701 W
SFO1 150.9445560 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 75.00 usec
PL2 3.00 dB
PL12 23.29 dB
PL13 26.00 dB
PL2W 7.49060631 W
PL12W 0.07006754 W
PL13W 0.03754196 W
SFO2 600.2324010 MHz
SI 131072
SF 150.9279255 MHz
EM 0
WDW 0
SSB 1.00 Hz
LB 0
GB 0
PC 0.00

17.092
16.975
16.857
8.586

99.598
95.439
95.342
95.246

133.547
131.680
126.975
126.590



AVII-400: 31P{1H} of rnm-277-2 (22.4mg in 0.6ml CDCl3)



NAME rnm-2-277-2
EXPNO 43
PROCNO 1
Date_ 20090609
Time 14.54
INSTRUM spect
PROBHD 5 mm PAQNP Swi
PULPROG zgpg30
TD 131072
SOLVENT CDCl3
NS 42
DS 2
SWH 49019.609 Hz
FIDRES 0.373990 Hz
AQ 1.3369844 sec
RG 2050
DW 10.200 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

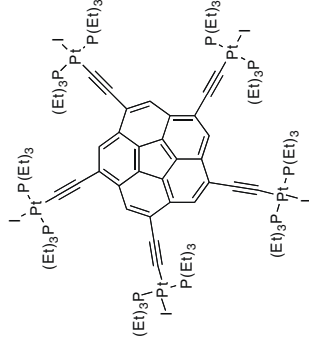
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NUC1 31P
P1 8.90 usec
PL1 0.00 dB
PL1W 25.01838875 W
SFO1 161.9869234 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
PL2W 13.43181801 W
PL12W 0.16909657 W
PL13W 0.10669272 W
SFO2 400.1316005 MHz
SI 131072
SF 161.9759021 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

0.000

7.199

14.389



2

20 10 5 0 -5 ppm

Mass Spectrum SmartFormula Report

Analysis Info

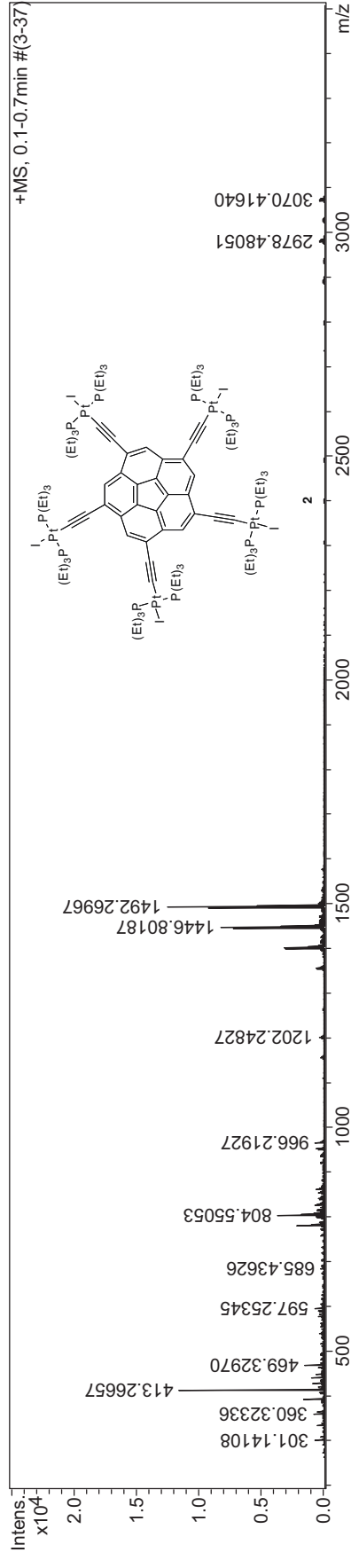
Analysis Name D:\Data\Service\0309\shres.d
Method ESI_lowMR.m
Sample Name rmm-2-277
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 9:58:38 AM

Operator ust
Instrument / Ser# maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdB	e ⁻ Conf	N-Rule
1491.76903	1	C 100 H 39 I 4 N P 8 Pt 5	70.64	1491.76815	-0.9	-0.6	21.6	84.0	even	-
	2	C 99 H 157 I 4 P 5 Pt 5	52.50	1491.76765	-1.4	-0.9	21.6	22.0	even	-
	3	C 102 H 155 I 3 P 8 Pt 5	100.00	1491.76918	0.2	0.1	21.7	28.0	even	-
	4	C 103 H 37 I 3 N P 11 Pt 5	79.21	1491.76968	0.7	0.4	21.7	90.0	even	-
	5	C 97 H 41 I 5 N P 5 Pt 5	48.93	1491.76757	-1.5	-1.0	22.3	78.0	even	-
	6	C 96 H 159 I 5 P 2 Pt 5	34.37	1491.76707	-2.0	-1.3	22.3	16.0	even	-
	7	C 105 H 153 I 2 P 11 Pt 5	74.46	1491.76977	0.7	0.5	22.5	34.0	even	-
	8	C 94 H 161 I 3 N 2 P 10 Pt 5	83.90	1491.76854	-0.5	-0.3	22.9	19.0	even	-
	9	C 94 H 43 I 6 N P 2 Pt 5	31.24	1491.76698	-2.0	-1.4	23.7	72.0	even	-
	10	C 88 H 36 I 4 N 2 P 6 Pt 6	30.83	1491.76697	-2.1	-1.4	23.8	73.0	even	-
	11	C 87 H 154 I 4 N P 3 Pt 6	20.88	1491.76649	-2.5	-1.7	23.8	11.0	even	ok
	12	C 85 H 156 I 2 N 3 P 11 Pt 6	59.43	1491.76794	-1.1	-0.7	23.8	14.0	even	ok
	13	C 90 H 152 I 3 N P 6 Pt 6	34.03	1491.76711	-1.9	-1.3	24.1	17.0	even	ok
	14	C 91 H 34 I 3 N 2 P 9 Pt 6	47.23	1491.76758	-1.5	-1.0	24.1	79.0	even	ok
	15	C 85 H 38 I 5 N 2 P 3 Pt 6	18.40	1491.76636	-2.7	-1.8	24.1	67.0	even	ok

Display Report

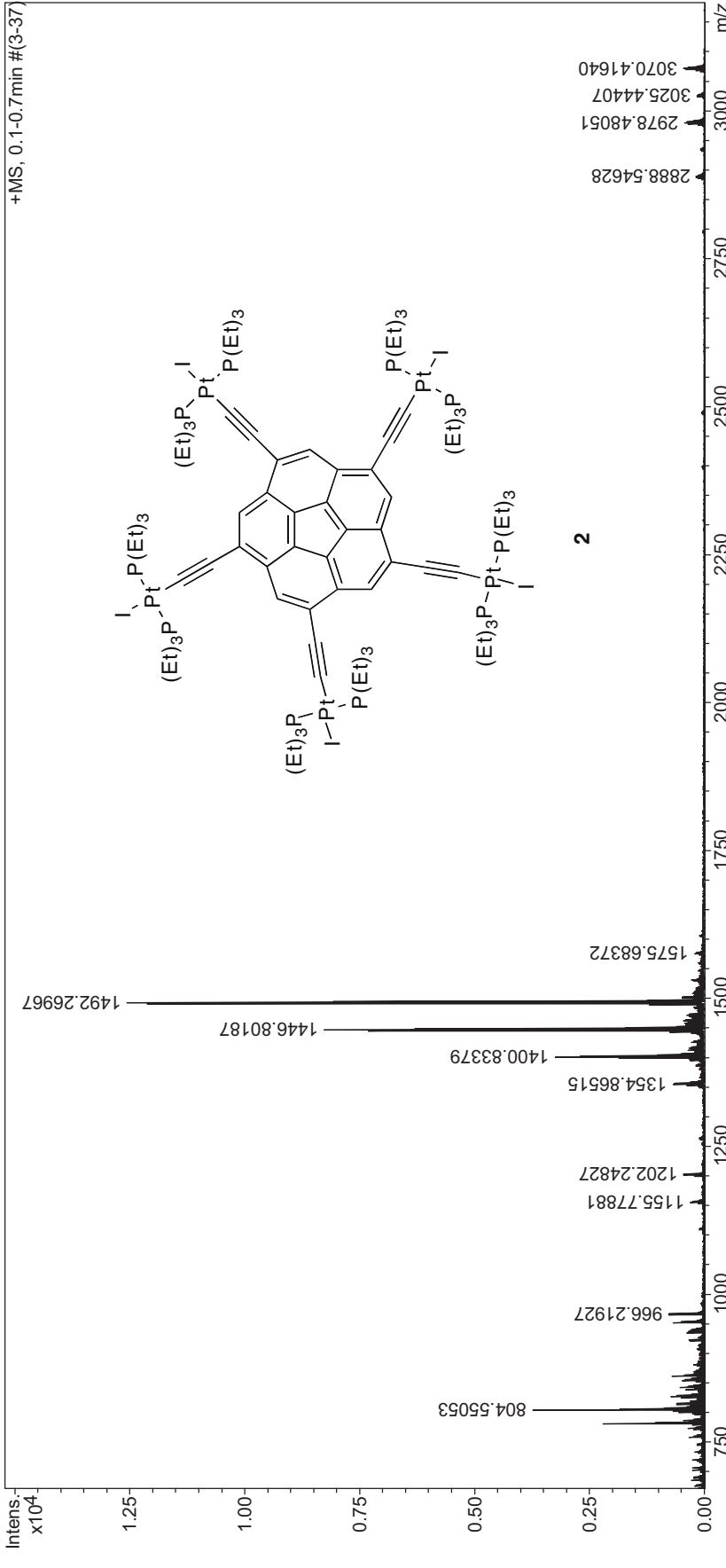
Analysis Info

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solvent : MeCN
client : Maag

Acquisition Date	7/21/2009 9:58:38 AM
Operator	ust
Instrument	maxis 3

Acquisition Parameter

Source Type	ESI	Ion Polarity	
Focus	Not active	Set Capillary	Set Nebulizer
Scan Begin	200 m/z	Set End Plate Offset	Set Dry Heater
Scan End	3500 m/z	Set Collision Cell RF	Set Dry Gas
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve
			300.0 Vpp
			Positive
			4000 V
			-500 V
			Set Divert Valve



Display Report

Analysis Info

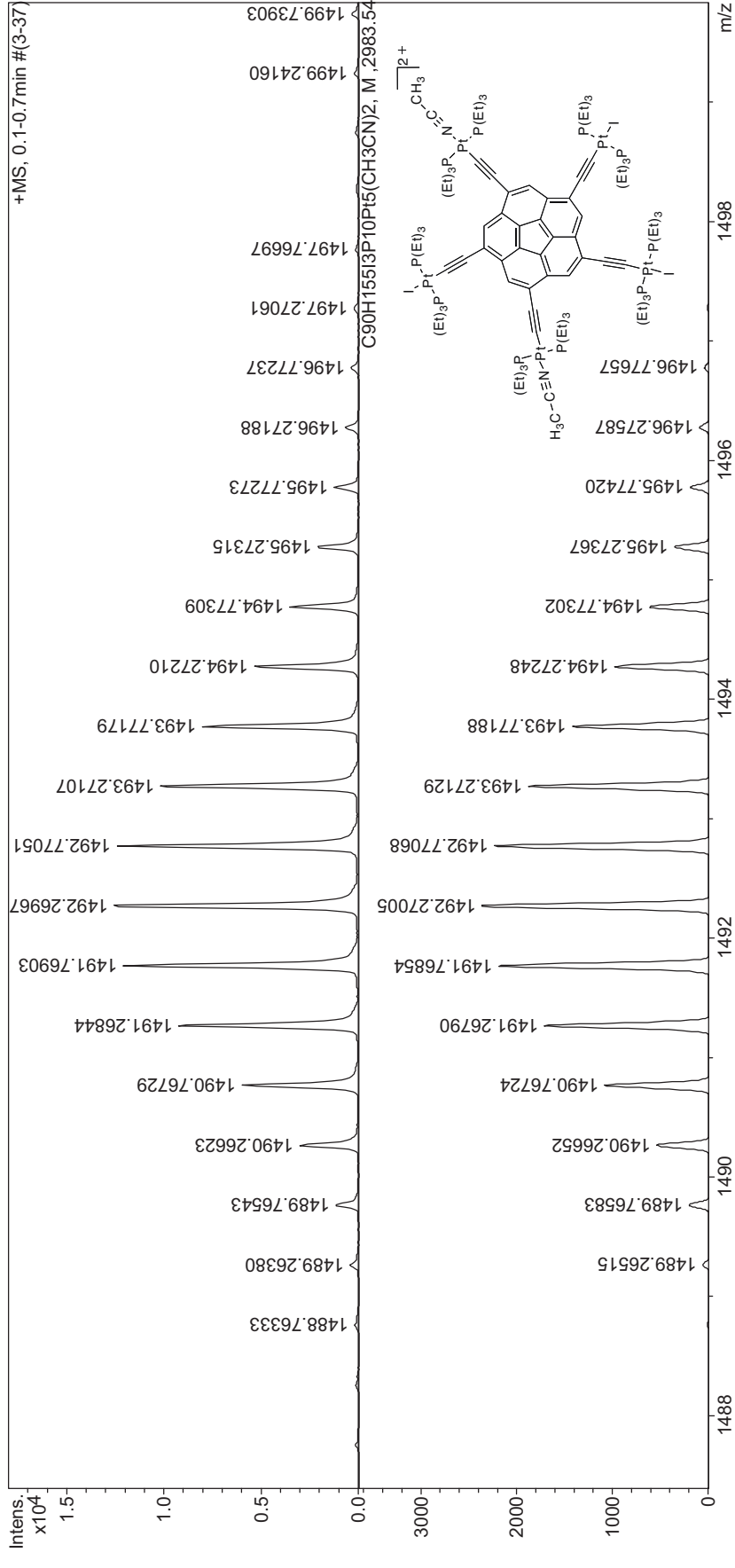
Analysis Name D:\Data\Service\0309sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-277
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 9:58:38 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

Analysis Name	D:\Data\Service\0309sihres.d
Method	ESI_lowMR.m
Sample Name	rmm-2-277
Comment	solvent : MeCN client : Maag

Acquisition Date 7/21/2009 9:58:38 AM

Operator	ust
Instrument	maXis

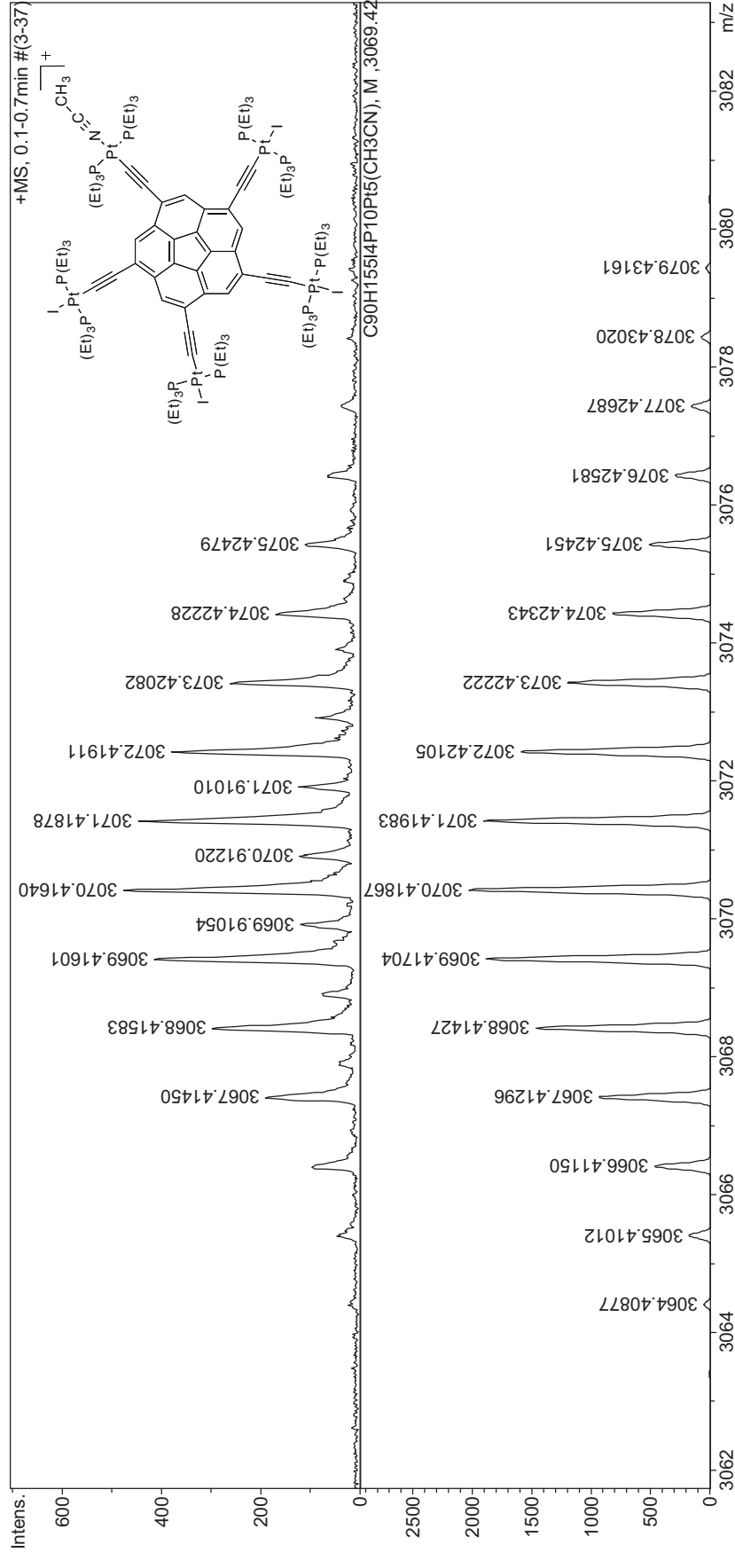
Acquisition Parameter

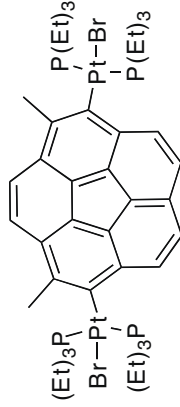
Source Type	ESI
Focus	Not active
Scan Begin	200 m/z
Scan End	3500 m/z

Ion Polarity	Positive
Set Capillary	4000 V
Set End Plate Offset	-500 V
Set Collision Cell RF	300.0 Vpp

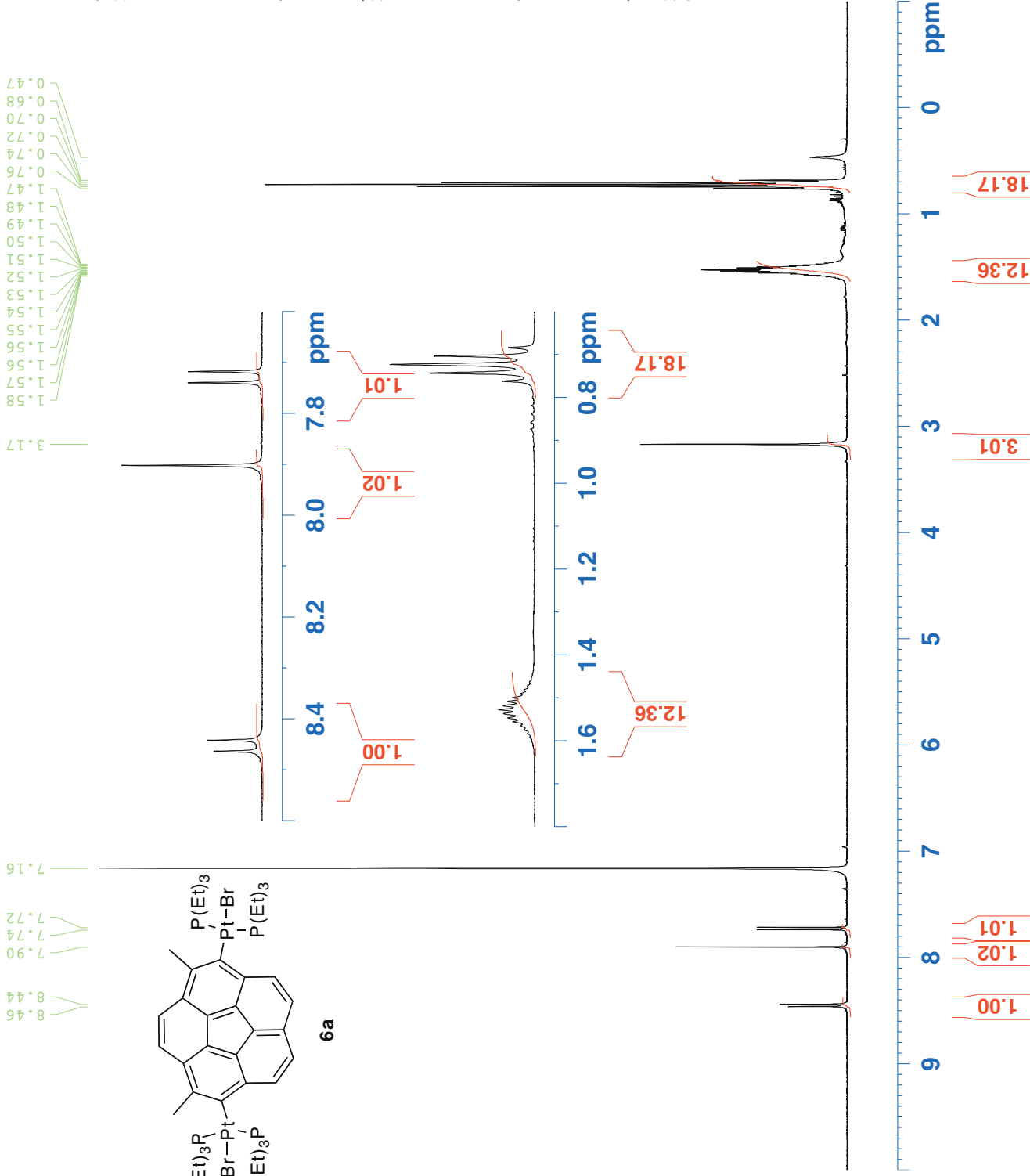
- Set Nebulizer
- Set Dry Heater
- Set Dry Gas
- Set Divert Valve

0.4 Bar
180 °C
4.0 l/min
Source





NAME	rmm-2-155-3
EXPNO	41
PROCNO	1
Date_	20081208
Time_	12.13
INSTRUM	spect
PROBHD	5 mm PAQNP Swi
PULPROG	zg
TD	65536
SOLVENT	C6D6
NS	16
DS	2
SWH	12335.526 Hz
FIDRES	0.188225 Hz
AQ	2.6564426 sec
RG	203
DW	40.533 usec
DE	6.00 usec
TE	300.0 K
D1	3.00000000 sec
TD0	1
===== CHANNEL f1 =====	
NUC1	1H
P1	12.00 usec
PL1	-3.00 dB
SFO1	400.1324008 MHz
SI	65536
SF	400.1300447 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

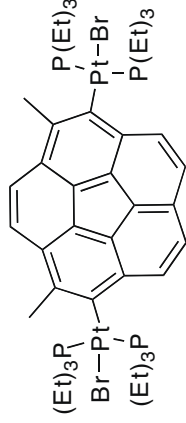


AV-600: 13C{1H} of rmm_2_155 (6a, 10mg in CDCl3)

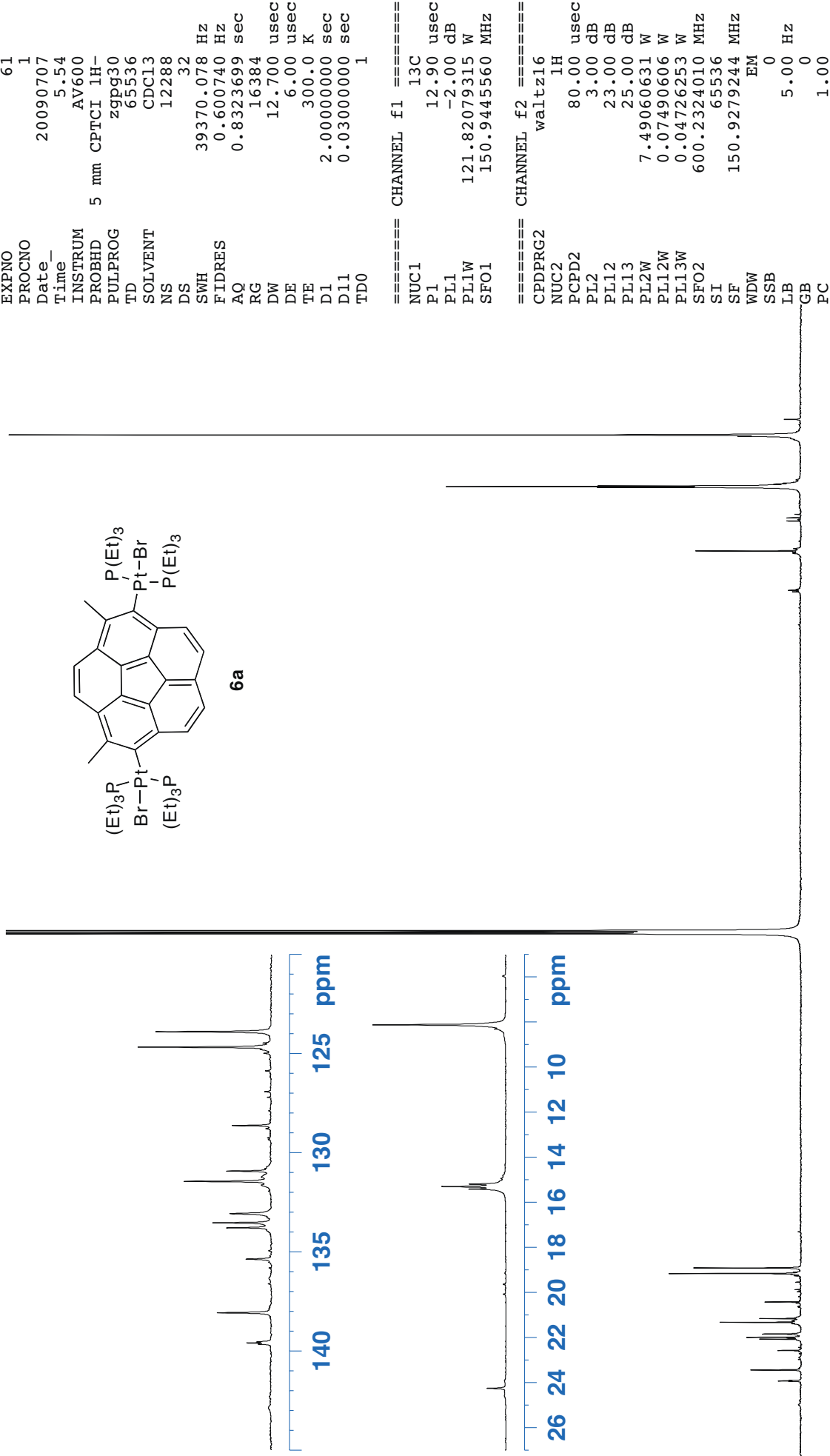
139.600
138.078
135.370
133.789
133.540
133.076
131.449
130.928
128.631
124.675
123.897

24.246

15.417
15.307
15.196
8.125



6a



NAME I28rmm_2_155
EXPNO 61
PROCNO 1
Date_ 20090707
Time_ 5.54
INSTRUM AV600
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 12288
DS 32
SWH 39370.078 Hz
FIDRES 0.600740 Hz
AQ 0.8323699 sec
RG 16384
DW 12.700 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 12.90 usec
PL1 -2.00 dB
PL1W 121.82079315 W
SFO1 150.9445560 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 3.00 dB
PL12 23.00 dB
PL13 25.00 dB
PL2W 7.49060631 W
PL12W 0.07490606 W
PL13W 0.04726253 W
SFO2 600.2324010 MHz
SI 65536
SF 150.9279244 MHz
WDW EM
SSB 0
LB 5.00 Hz
GB 0
PC 1.00

AV2-400: 31P{1H} von rnm-2-155-3 (6a, 10mg in CDCl3)

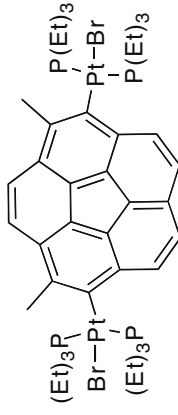


NAME rnm-2-155-3
EXPNO 45
PROCNO 1
Date_ 20081208
Time 12.35
INSTRUM spect
PROBHD 5 mm PAQNP Swi
PULPROG zgpg30
TD 131072
SOLVENT C6D6
NS 512
DS 2
SWH 49019.609 Hz
FIDRES 0.373990 Hz
AQ 1.3369844 sec
RG 2050
DW 10.200 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
TD0 1

===== CHANNEL f1 =====
NUC1 31P
P1 8.90 usec
PL1 0.00 dB
SFO1 161.9869234 MHz

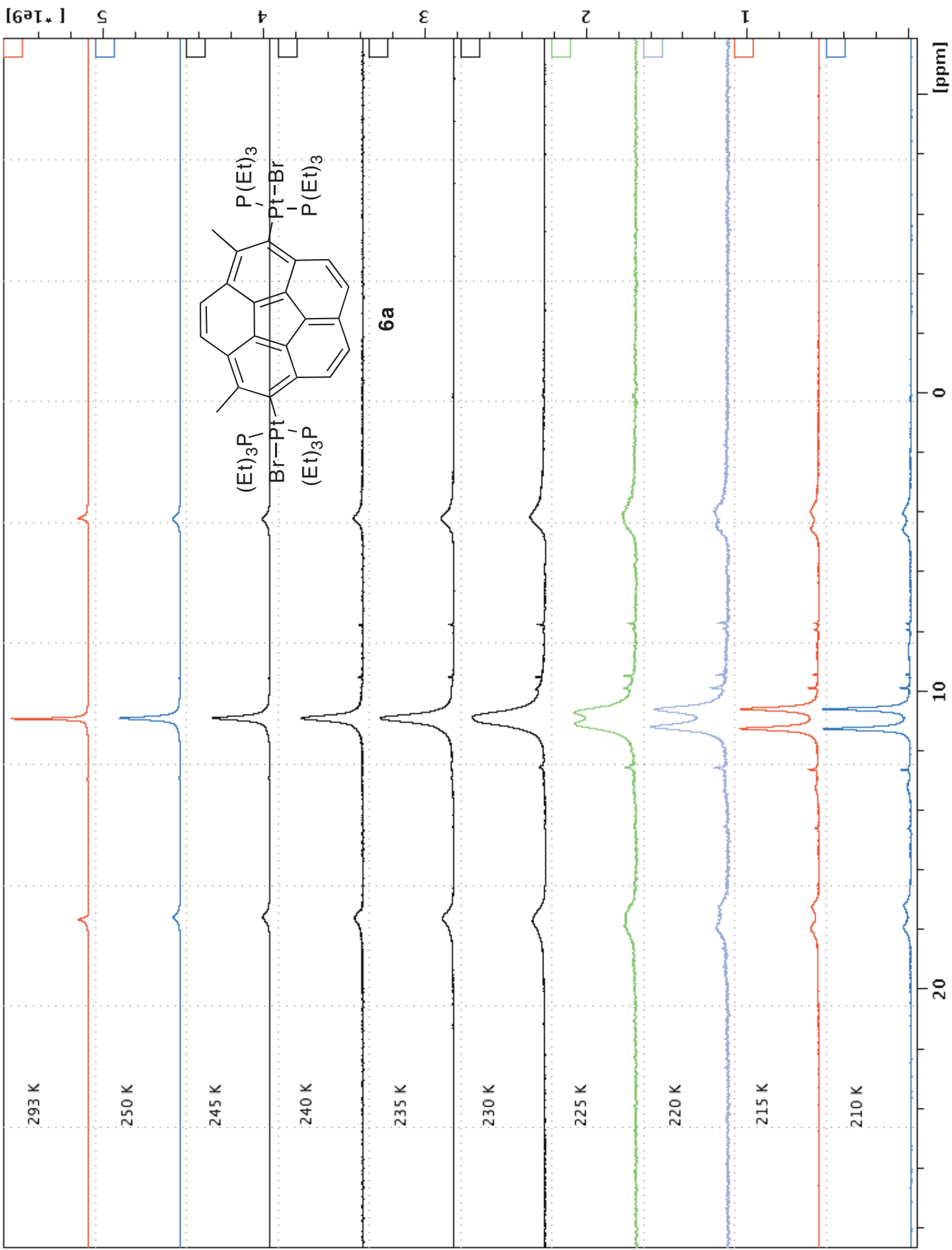
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL12 16.00 dB
PL13 18.00 dB
PL2 -3.00 dB
SFO2 400.1316005 MHz
SI 131072
SF 161.9755204 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

19.326
10.920
2.514



6a

24 22 20 18 16 14 12 10 8 6 4 2 0 -2 ppm



Mass Spectrum SmartFormula Report

Analysis Info

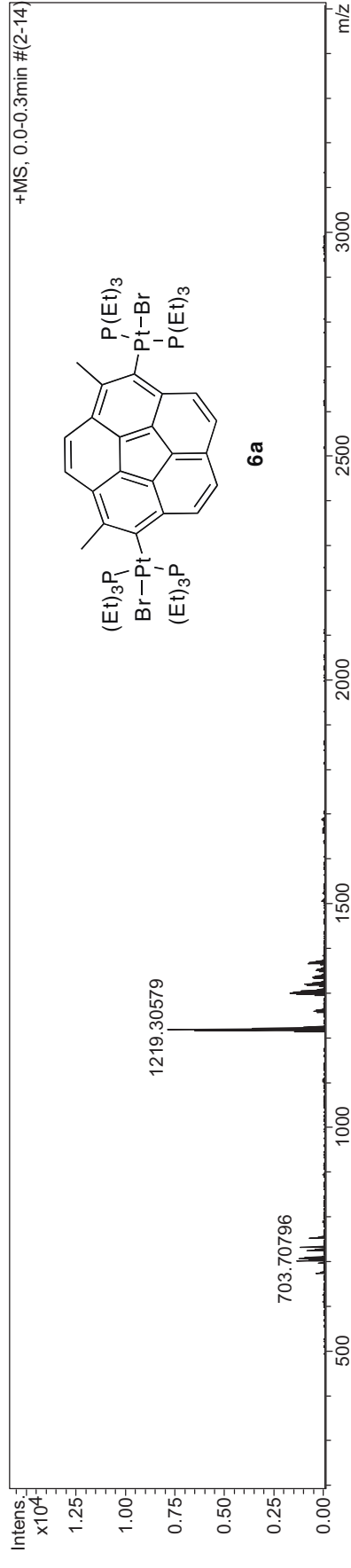
Analysis Name D:\Data\Service\03055\hres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM

Operator ust
Instrument / Ser# maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rbdb	e ⁻ Conf	N-Rule
1217.30477	1	C 44 H 73 Br Na P 4 Pt 2	14.42	1217.30141	-3.4	-2.8	8.7	9.5	even	ok
	2	C 46 H 72 Br P 4 Pt 2	100.00	1217.30385	-0.9	-0.8	9.0	12.5	even	ok
	3	C 40 H 71 Br Na O 7 P 2 Pt 2	40.78	1217.30256	-2.2	-1.8	10.2	5.5	even	ok
	4	C 36 H 69 Br Na O 14 Pt 2	87.69	1217.30373	-1.0	-0.9	12.2	1.5	even	ok
	5	C 39 H 77 Br O 3 P 5 Pt 2	12.54	1217.30134	-3.4	-2.8	12.5	3.5	even	ok
	6	C 35 H 75 Br O 10 P 3 Pt 2	35.29	1217.30250	-2.3	-1.9	15.0	-0.5	even	ok
	7	C 38 H 58 Na O 6 Pt 3	67.09	1218.30618	0.7	0.6	32.0	9.5	even	-
	8	C 37 H 64 O 2 P 3 Pt 3	74.66	1218.30497	-0.5	-0.4	33.1	7.5	even	-
	9	C 33 H 62 O 9 P Pt 3	65.71	1218.30613	0.7	0.6	33.9	3.5	even	-

Display Report

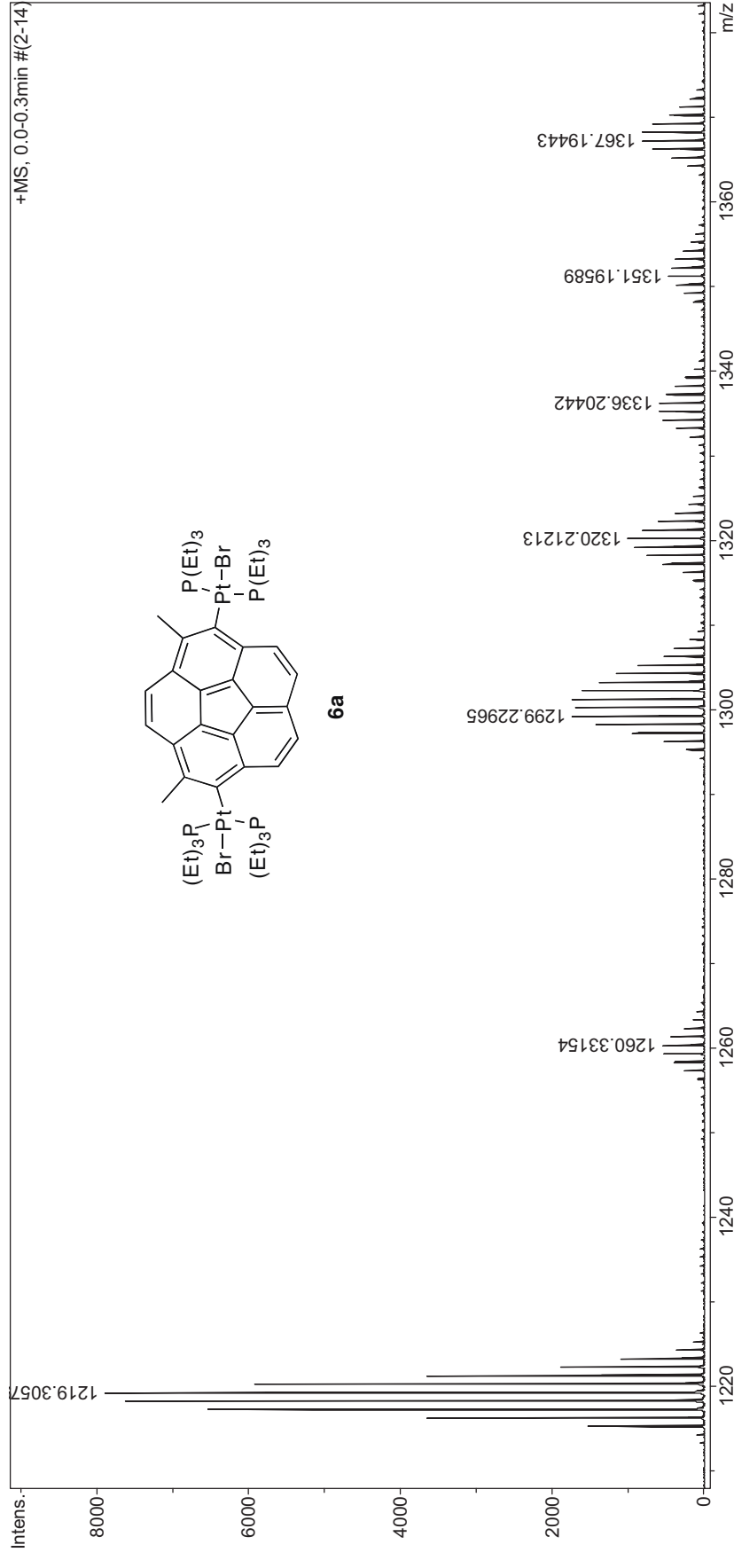
Analysis Info

Analysis Name D:\Data\Service\03055\hres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM
Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

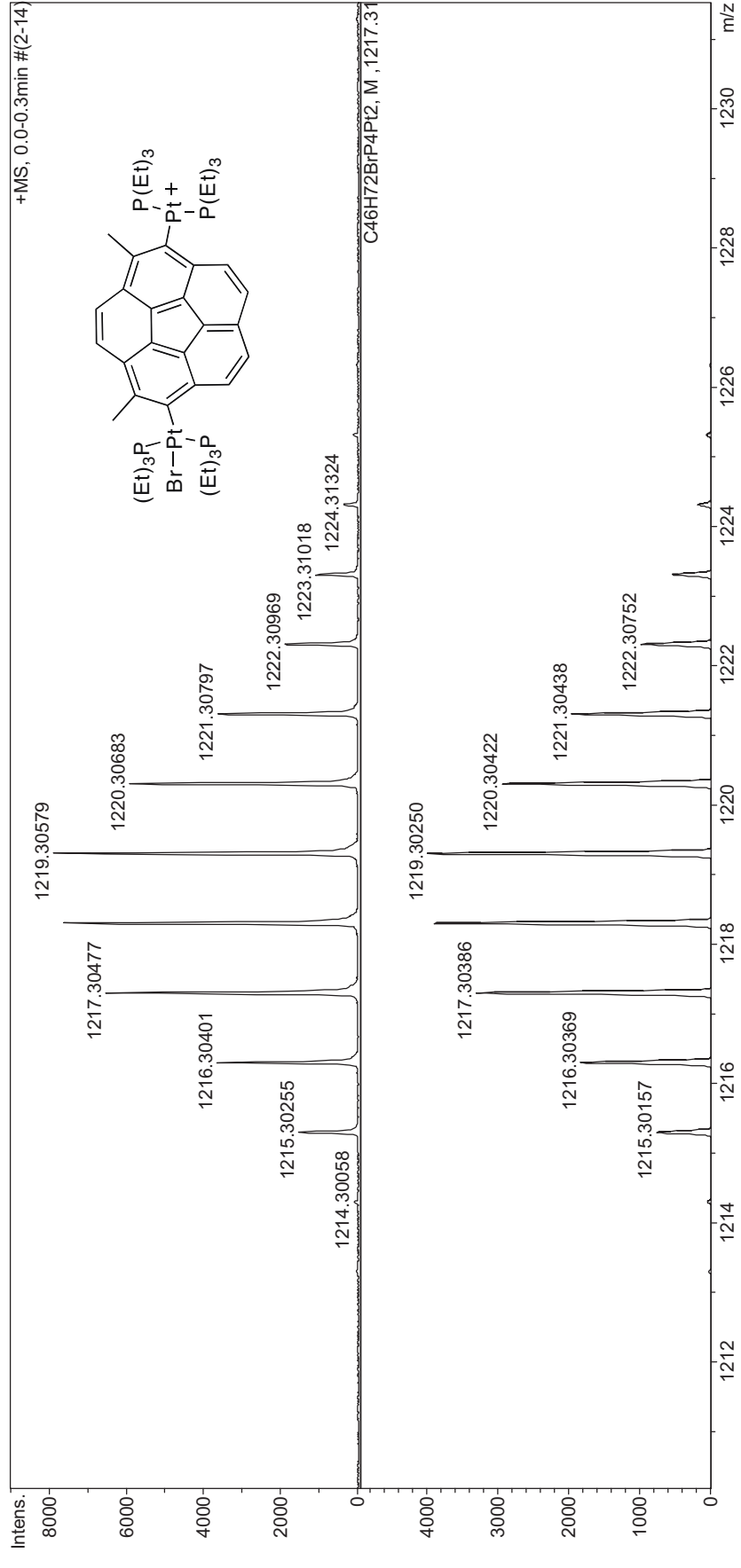
Analysis Name D:\Data\Service\0305\sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

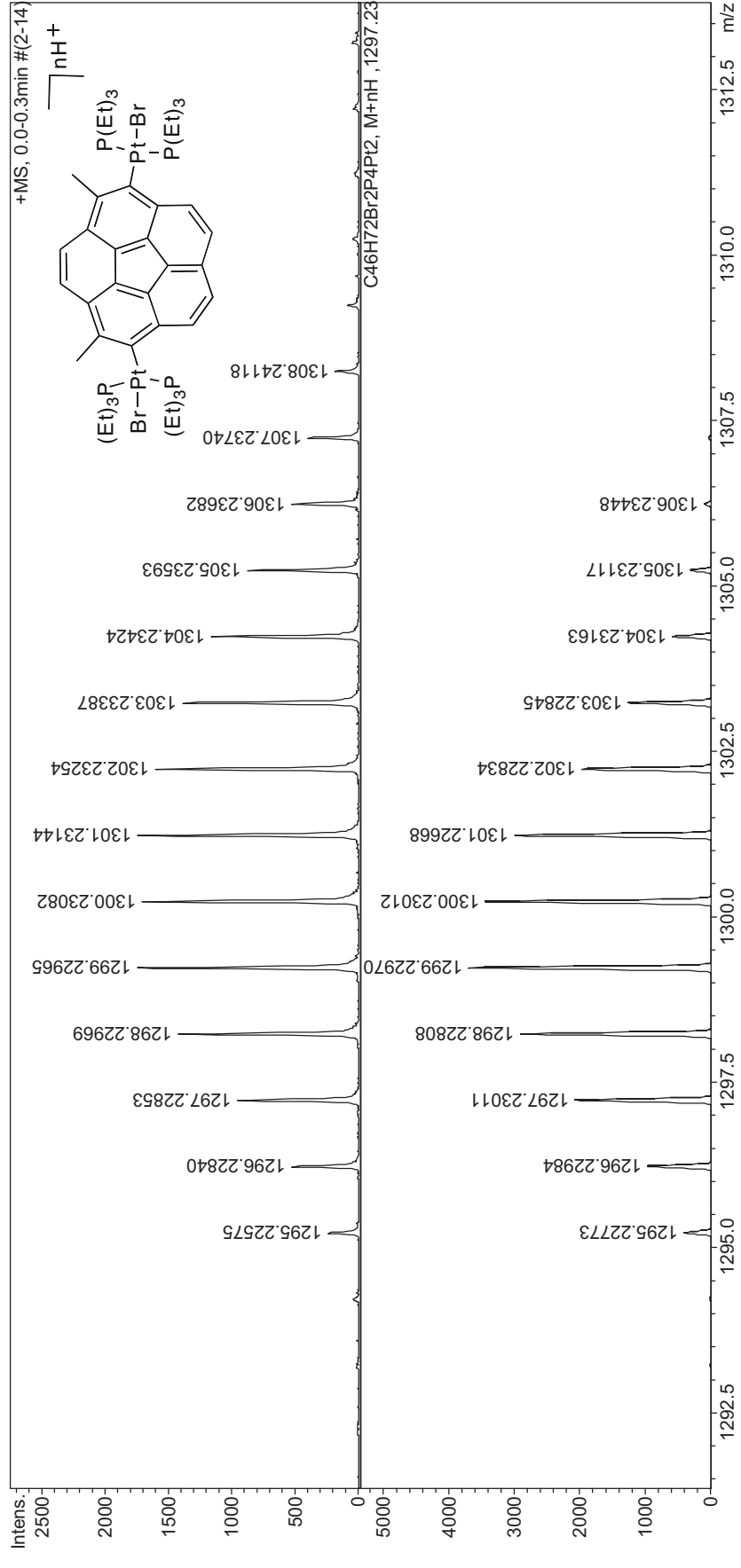
Analysis Name D:\Data\Service\0305\sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

Analysis Name D:\Data\Service\03055\hres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM

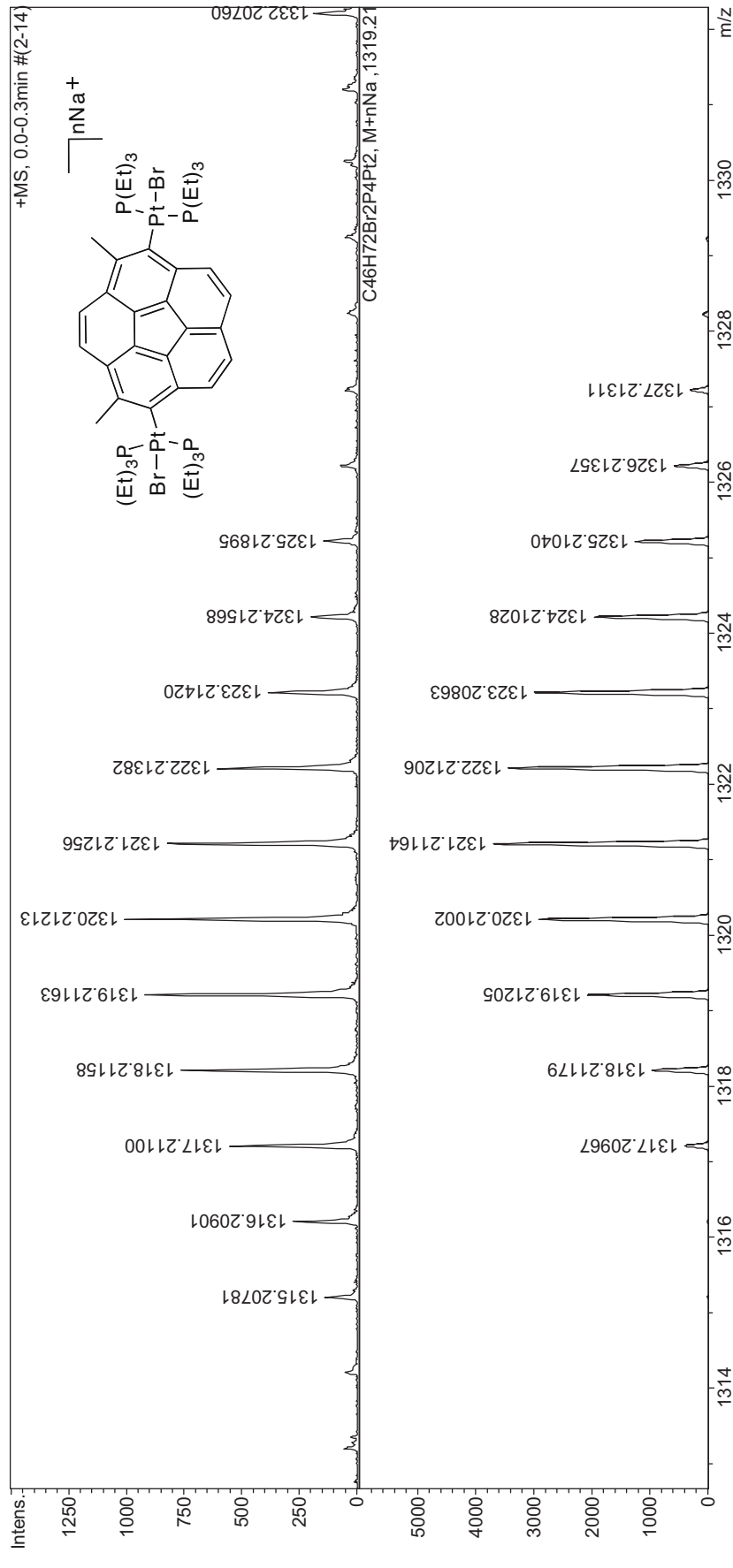
Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type ESI
Focus Not active
Scan Begin 200 m/z
Scan End 3500 m/z

Ion Polarity Positive
Set Capillary 5000 V
Set End Plate Offset -500 V
Set Collision Cell RF 300.0 Vpp

Set Nebulizer 0.4 Bar
Set Dry Heater 180 °C
Set Dry Gas 4.0 l/min
Set Divert Valve Source



Display Report

Analysis Info

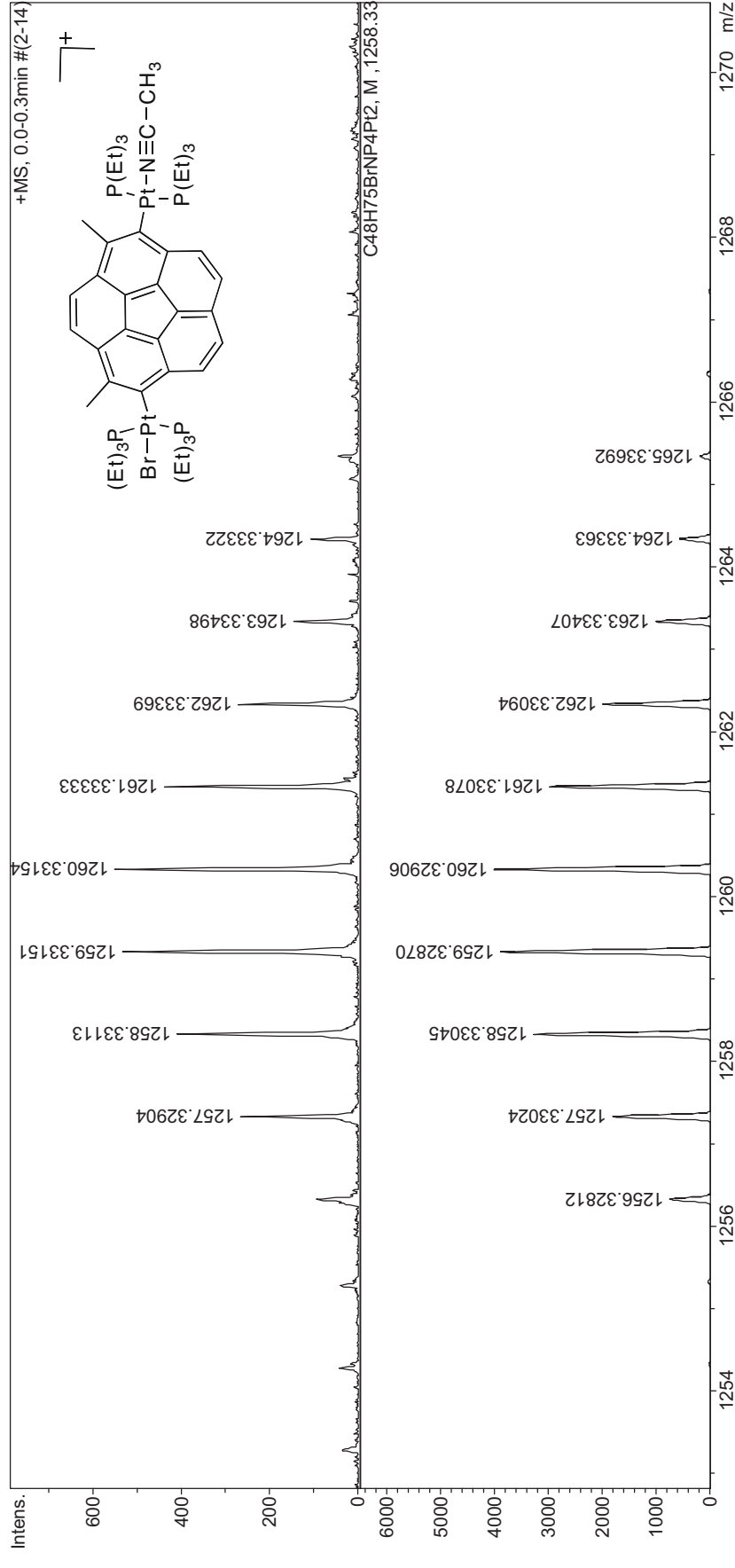
Analysis Name D:\Data\Service\0305sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-155
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 9:20:03 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



AV2-500: rmm-2-269-4 (8, 26.8mg in 0.6ml CDCl3)

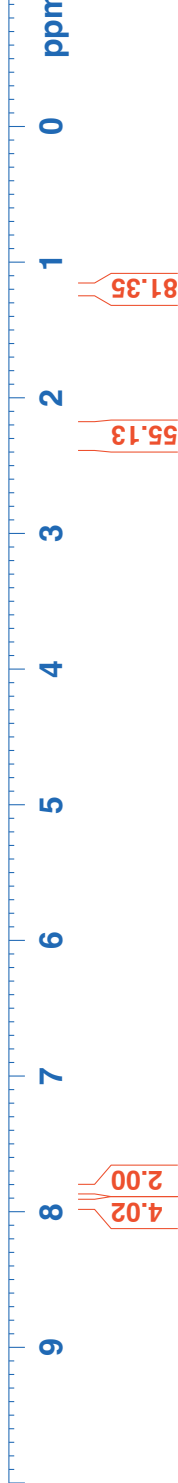
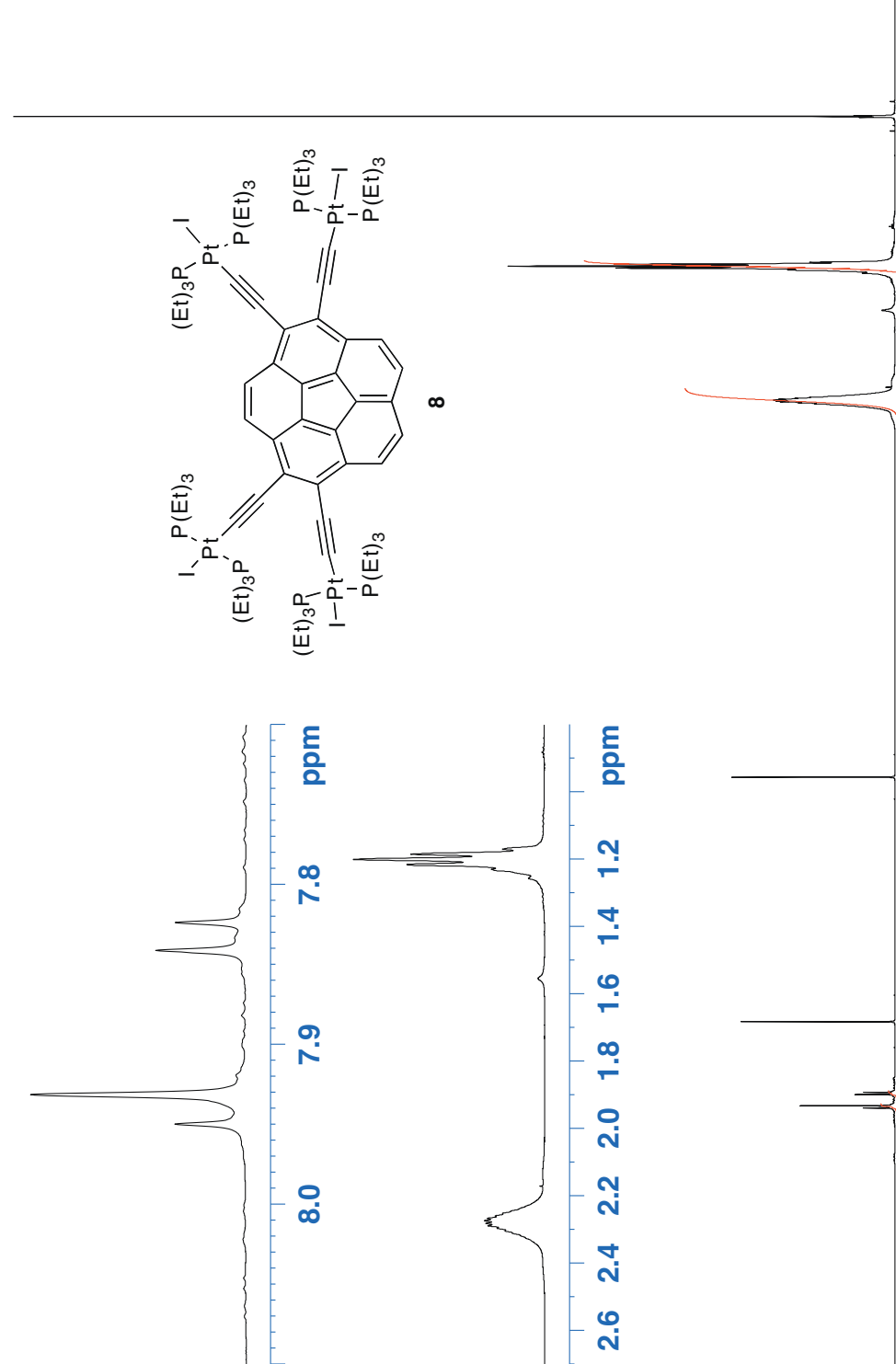


NAME rmm-2-269-4
EXPNO 1
PROCNO 1
Date_ 20090610
Time 11.00
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719923 sec
RG 71.8
DW 48.400 usec
DE 20.00 usec
TE 300.0 K
D1 6.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.40 usec
PL1 2.50 dB
PL1W 13.63098717 W
SFO1 500.3030000 MHz
SI 65536
SF 500.3000146 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

10.00
10.00
10.00
88.00
1.17
1.19
1.20
1.22
1.23
1.26
1.55
2.17
2.25
2.26
2.27
2.27
2.28
2.29
2.30
2.30

7.95
7.93
7.84
7.82
7.26
5.30

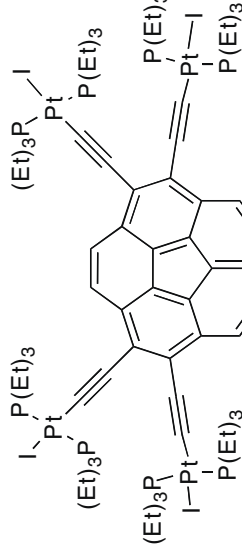
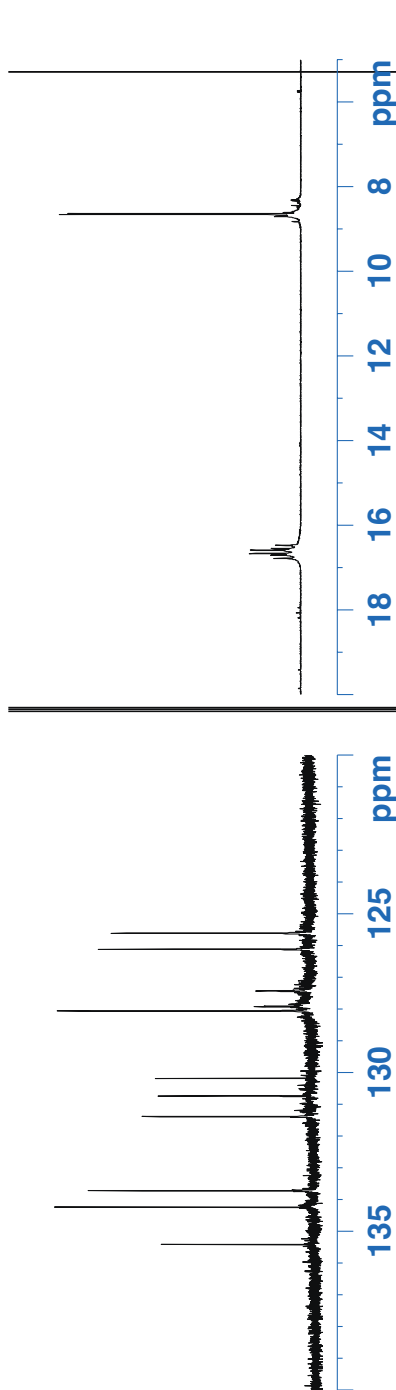


AV-600: $^{13}\text{C}\{^1\text{H}\}$ of **8**, 26.8mg in CDCl_3 , 300K)



NAME I26rmm_2_269
EXPNO 61
PROCNO 1
Date_ 20090622
Time 15.13
INSTRUM AV600
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg30
TD 65536
SOLVENT CDCl_3
NS 8192
DS 32
SWH 39370.078 Hz
FIDRES 0.600740 Hz
AQ 0.8323699 sec
RG 16384
DW 12.700 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 ^{13}C
P1 13.60 usec
PL1 1.00 dB
PL1W 61.05502701 W
SFO1 150.9445560 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 75.00 usec
PL2 3.00 dB
PL12 23.29 dB
PL13 26.00 dB
PL2W 7.49060631 W
PL12W 0.07006754 W
PL13W 0.03754196 W
SFO2 600.2324010 MHz
SI 131072
SF 150.9279574 MHz
WDW GM
SSB 0
LB -0.90 Hz
GB 0.9
PC 0.01

16.790
16.711
16.674
16.595
16.558
16.479
8.658
8.640

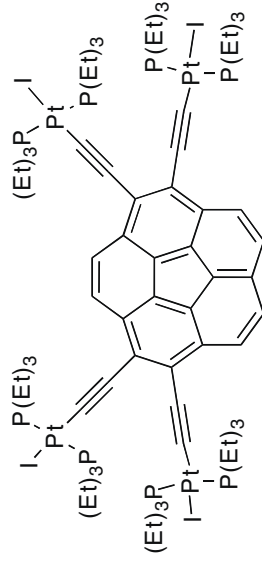


108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 ppm

135.422
134.247
133.730
130.744
130.191
128.066
127.923
127.434
126.121
125.615
108.001
106.869
97.985
97.660

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm

AV2-500: 31P{1H} rmm-2-269-4 (8, 26.8mg in 0.6ml CDCl3)



8



NAME rmm-2-269-4
EXPNO 2
PROCNO 1
Date_ 20090610
Time 11.15
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 81521.742 Hz
FIDRES 1.243923 Hz
AQ 0.4020041 sec
RG 2050
DW 6.133 usec
DE 6.00 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 31P
P1 17.50 usec
PL1 -1.00 dB
PL1W 107.20121002 W
SFO1 202.5150260 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 75.00 usec
PL2 2.50 dB
PL12 22.62 dB
PL13 25.62 dB
PL2W 13.63098717 W
PL12W 0.13259502 W
PL13W 0.06645493 W
SFO2 500.3020012 MHz
SI 32768
SF 202.5255378 MHz
WDW EM
SSB 0
LB 7.00 Hz
GB 0
PC 1.40

15 10 5 0 -5 -10 ppm

Mass Spectrum SmartFormula Report

Analysis Info

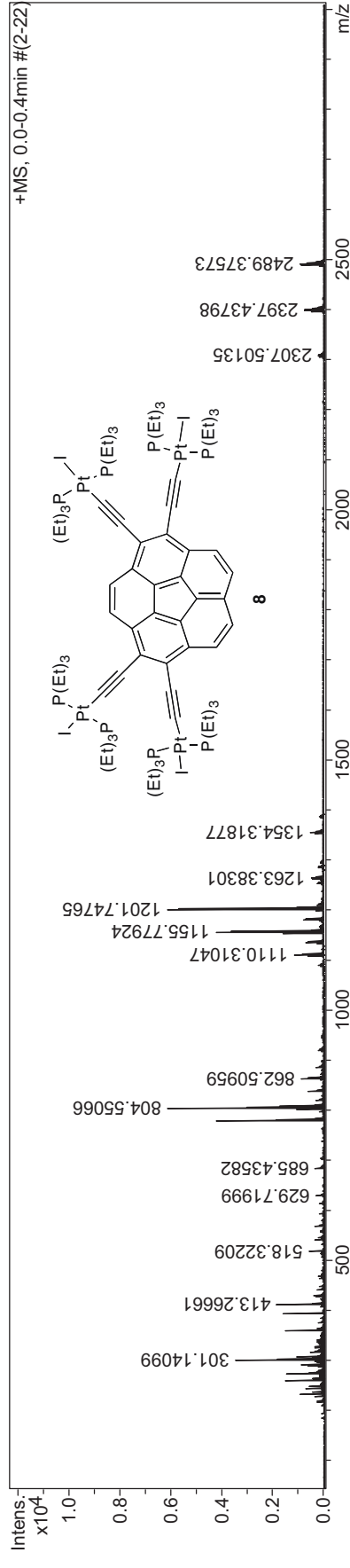
Analysis Name D:\Data\Service\0308sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-269
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 8:23:35 AM

Operator ust
Instrument / Ser# maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdB	e ⁻ Conf	N-Rule
1201.24694	1	C 82 H 130 I 4 Pt 4	71.36	1201.24609	-0.9	-0.7	11.6	16.0	even	ok
	2	C 83 H 121 4 N P 3 Pt 4	91.01	1201.24657	-0.4	-0.3	11.7	78.0	even	ok
	3	C 86 H 101 3 N P 6 Pt 4	95.92	1201.24718	0.2	0.2	11.8	84.0	even	ok
	4	C 85 H 128 I 3 P 3 Pt 4	95.66	1201.24669	-0.2	-0.2	11.8	22.0	even	ok
	5	C 80 H 132 I 2 N 2 P 8 Pt 4	80.59	1201.24754	0.6	0.5	12.1	19.0	even	ok
	6	C 80 H 141 5 N Pt 4	64.76	1201.24597	-1.0	-0.8	13.3	72.0	even	ok
	7	C 88 H 126 I 2 P 6 Pt 4	87.83	1201.24730	0.4	0.3	13.7	28.0	even	ok
	8	C 89 H 81 2 N P 9 Pt 4	68.84	1201.24778	0.8	0.7	13.7	90.0	even	ok
	9	C 77 H 134 I 3 N 2 P 5 Pt 4	100.00	1201.24693	-0.0	-0.0	14.7	13.0	even	ok
	10	C 74 H 136 I 4 N 2 P 2 Pt 4	71.45	1201.24633	-0.6	-0.5	17.9	7.0	even	ok
	11	C 63 H 351 4 N P 10 Pt 4	14.61	1201.24458	-2.4	-2.0	36.1	50.0	even	ok
	12	C 60 H 37 I 5 N P 7 Pt 4	7.46	1201.24397	-3.0	-2.5	40.8	44.0	even	ok
	13	C 57 H 39 I 6 N P 4 Pt 4	3.48	1201.24337	-3.6	-3.0	45.8	38.0	even	ok
2488.37209	1	C 84 H 7 I 4 P 6 Pt 4	79.55	2488.37279	0.7	0.3	36.6	82.5	even	ok
	2	C 81 H 9 I 5 P 3 Pt 4	87.53	2488.37158	-0.5	-0.2	36.7	76.5	even	ok

Display Report

Analysis Info

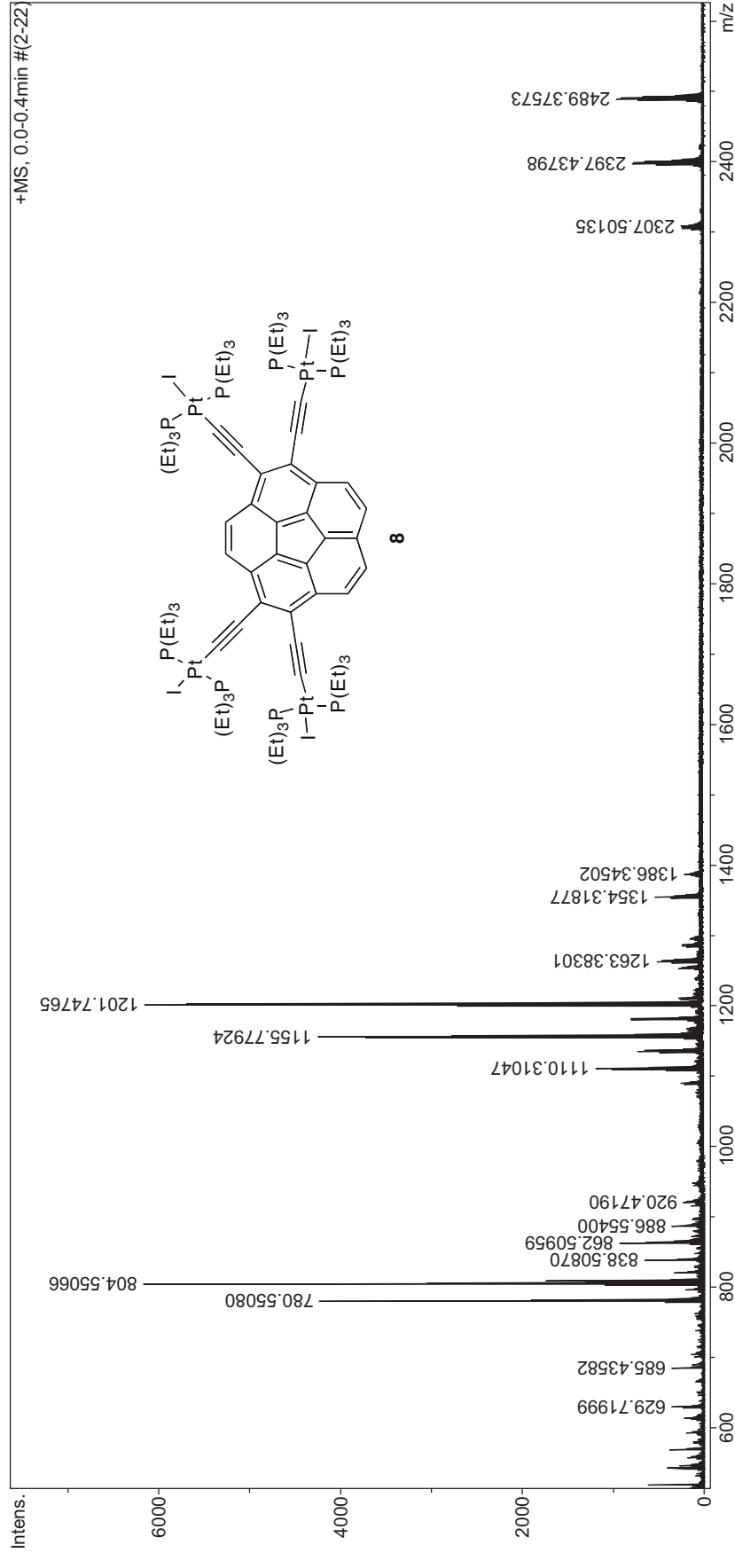
Analysis Name D:\Data\Service\0308sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-269
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 8:23:35 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

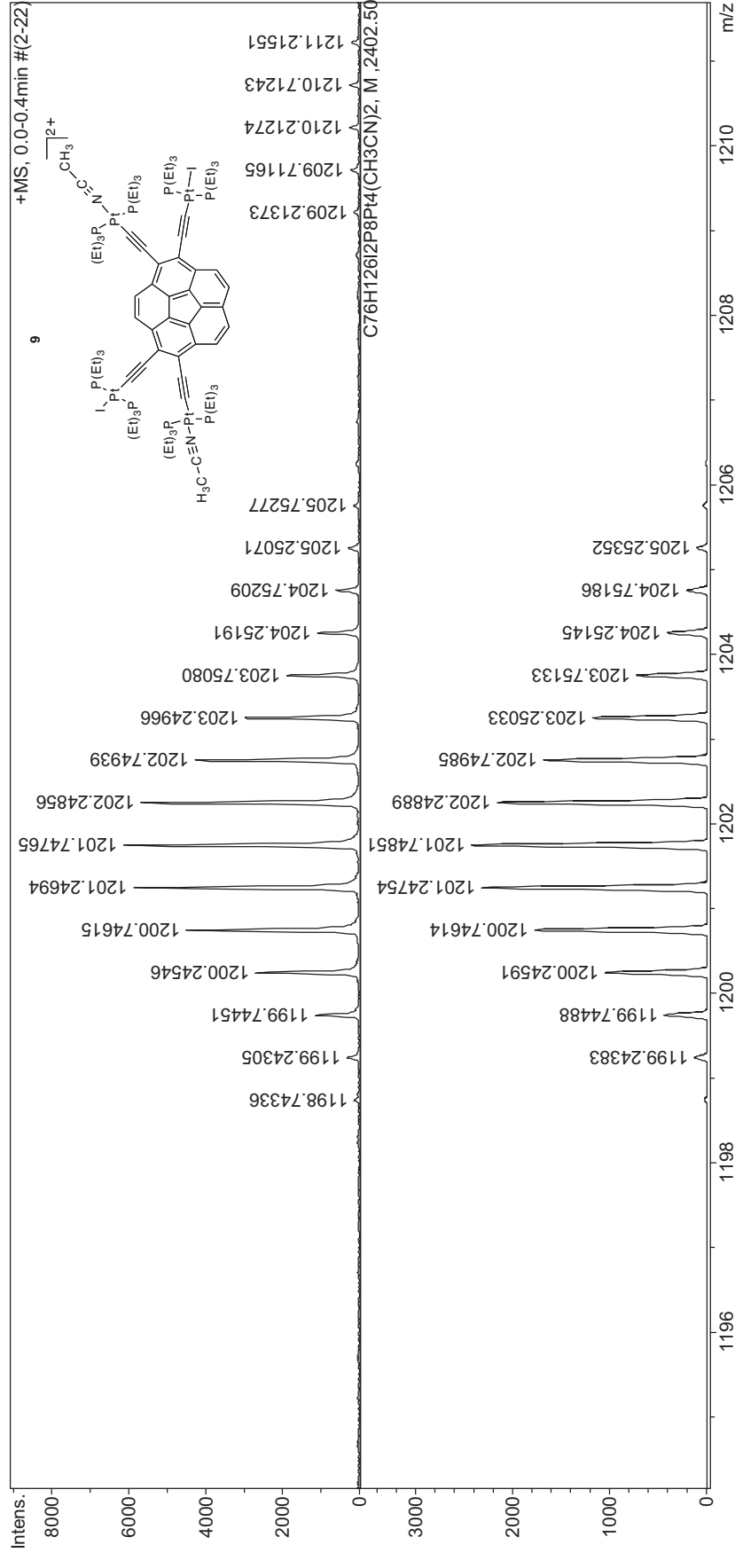
Analysis Name D:\Data\Service\0308sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-269
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 8:23:35 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4000 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

Analysis Name D:\Data\Service\0308sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-269
Comment solvent : MeCN
client : Maag

Acquisition Date 7/21/2009 8:23:35 AM

Operator ust
Instrument maXis

33

Acquisition Parameter

Source Type

Focus

Scan Begin

Scan End

ESI

Not active

50 m/z

3000 m/z

Ion Polarity

Set Capillary

Set End Plate Offset

Set Collision Cell RF

Positive

4000 V

-500 V

300.0 Vpp

Set Nebulizer

Set Dry Heater

Set Dry Gas

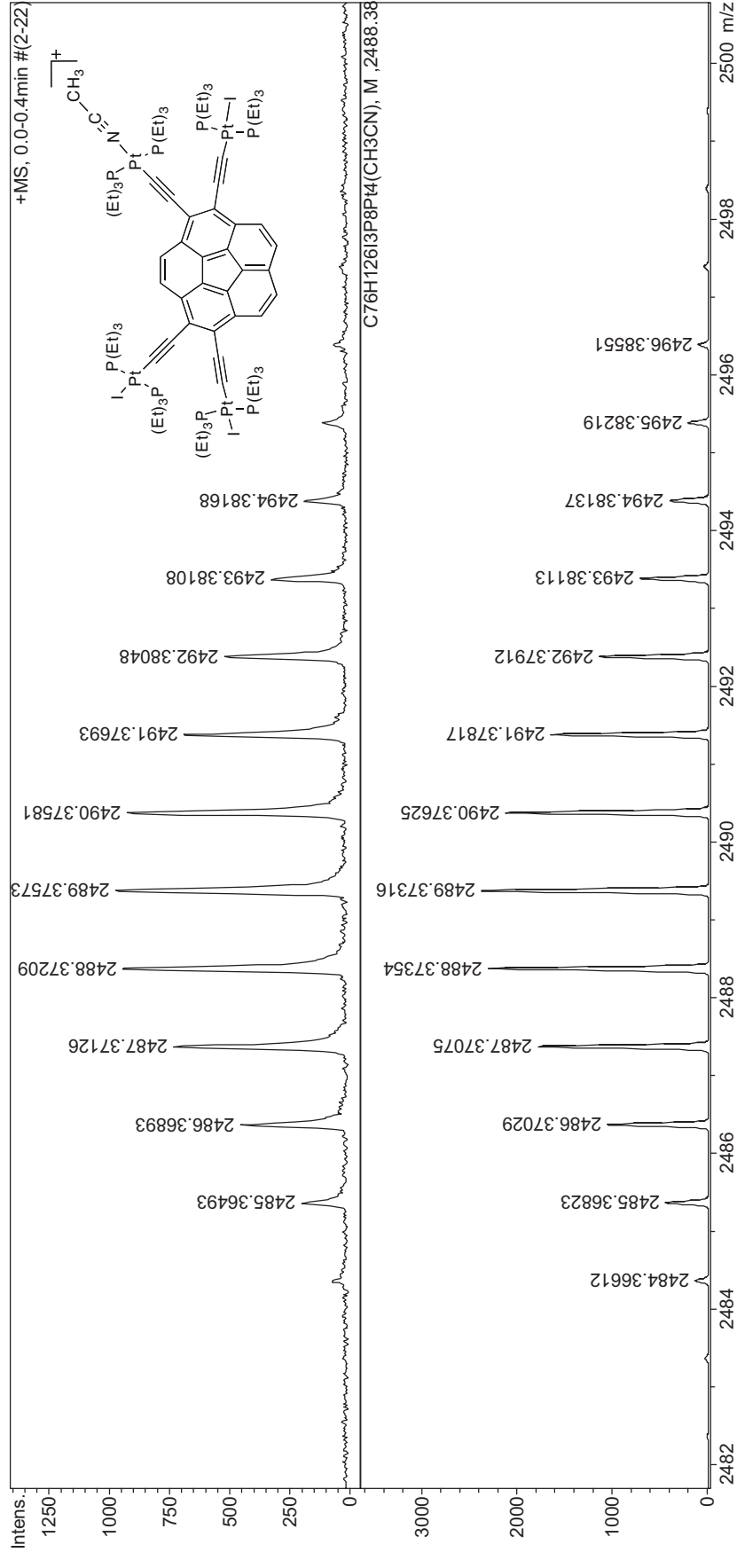
Set Divert Valve

0.4 Bar

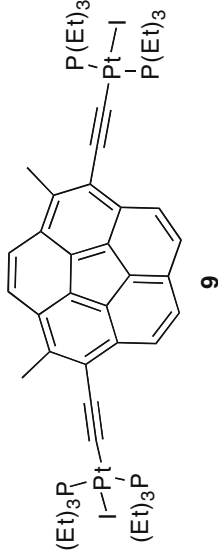
180 °C

4.0 l/min

Source



AV2-400: 1H of rmm-2-290 (9, 18.5mg in 0.6ml CDCl3)



NAME rmm-2-290
EXPNO 41
PROCNO 1
Date_ 20090716
Time 12.18
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 4401.409 Hz
FIDRES 0.067160 Hz
AQ 7.4449396 sec
RG 228
DW 113.600 usec
DE 6.00 usec
TE 300.0 K
D1 3.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 12.60 usec
PL1 3.00 dB
PL1W 9.80702877 W
SFO1 400.2317990 MHz
SI 65536
SF 400.2300123 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

The Bruker logo, featuring the word "BRUKER" in a bold, sans-serif font, with a stylized atomic symbol (two intersecting elliptical orbits with dots at the foci) superimposed over the text.

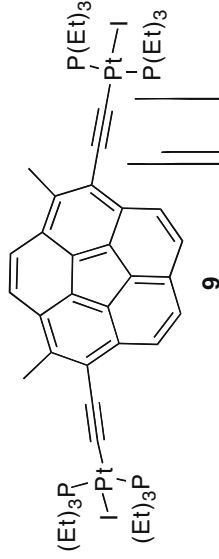
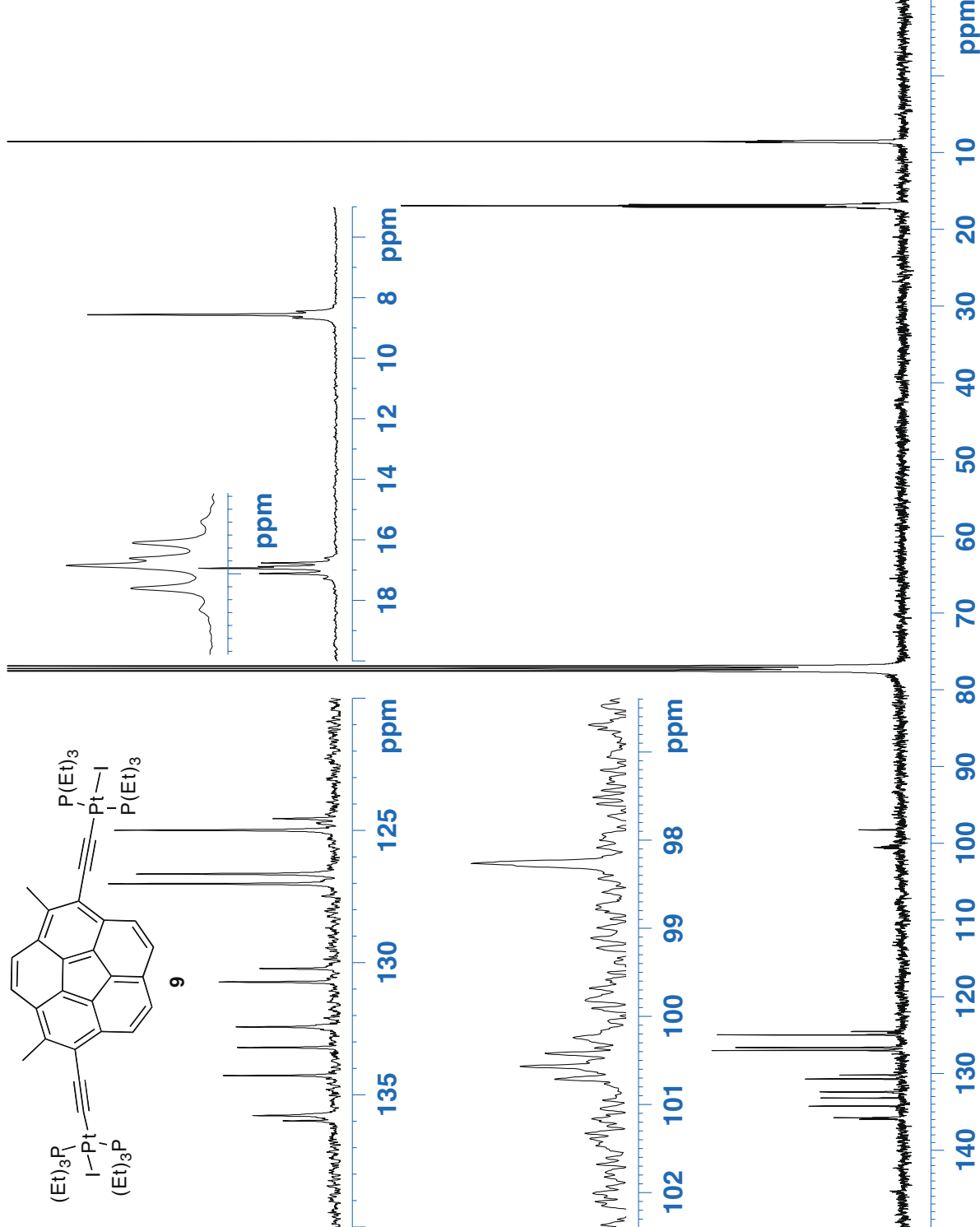
NAME	rmu-2-290
EXPNO	42
PROCNO	1
Date_	20090716
Time_	12.29
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDC13
NS	3700
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	2050
DW	20.800 usec
DE	6.00 usec
TE	300.0 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1

```
===== CHANNEL f1 =====
NUC1      13C
P1         9.50 usec
PL1        3.00 dB
PL1W       46.70613098 W
SFO1      100.6479773 MHz
```

```

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 usec
PL2          3.00 dB
PL12         19.05 dB
PL13         21.50 dB
PL2W         9.80702877 W
PL12W        0.24352163 W
PL13W        0.13852796 W
SFO2         400.2316009 MHz
SI           65536
SF           100.6378934 MHz
WDW          EM
SSB          0
LB           2.70 Hz
GB           0
PC           1.40

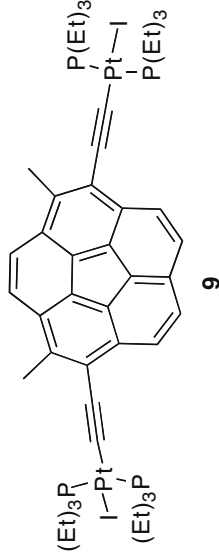
```



9

AV2-500: 31P{1H} of rmm-2-195 (9, CDC13)

12.506



6.767

1.016



NAME rmm-2-195 (500)
EXPNO 2
PROCNO 1
Date_ 20090527
Time 17.50
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 128
DS 4
SWH 81521.742 Hz
FIDRES 1.243923 Hz
AQ 0.4020041 sec
RG 2050
DW 6.133 usec
DE 6.00 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 31P
P1 17.50 usec
PL1 -1.00 dB
PL1W 107.20121002 W
SFO1 202.5150260 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 75.00 usec
PL2 2.50 dB
PL12 22.62 dB
PL13 25.62 dB
PL2W 13.63098717 W
PL12W 0.13259502 W
PL13W 0.06645493 W
SFO2 500.3020012 MHz
SI 32768
SF 202.5255361 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

13 12 11 10 9 8 7 6 5 4 3 2 1 0 ppm

Mass Spectrum SmartFormula Report

Analysis Info

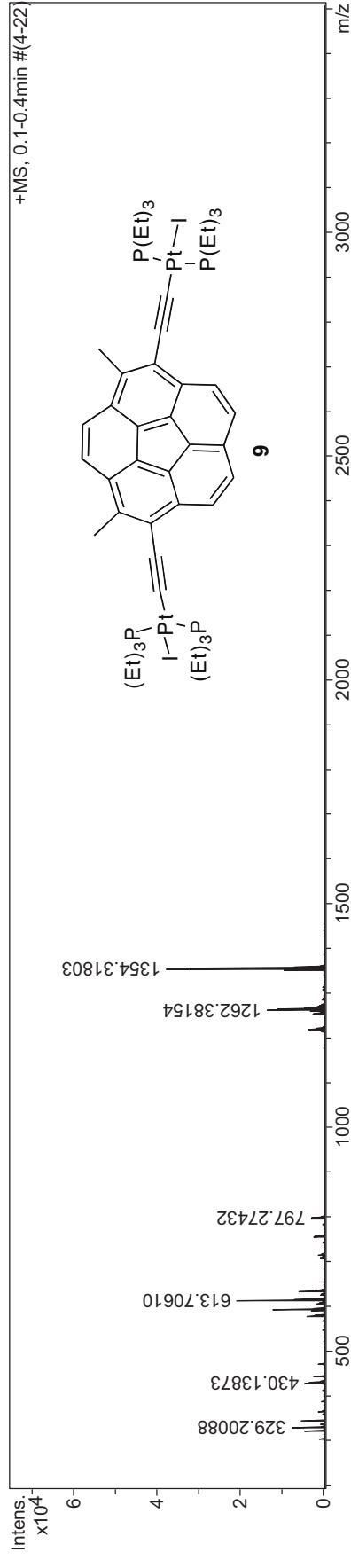
Analysis Name D:\Data\Service\0307\shres.d
Method ESI_lowMR.m
Sample Name rmm-2-195
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 10:56:22 AM

Operator ust
Instrument / Ser# maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rbdb	e ⁻ Conf	N-Rule
1353.31652	1	C 49 H 77 I 2 N P Pt 2	54.89	1354.31658	-1.4	-1.1	7.7	11.5	even	ok
	2	C 46 H 74 I N Na O 7 P 2 Pt 2	51.73	1354.31653	-1.5	-1.1	8.9	10.5	even	ok
	3	C 48 H 73 I N O 7 P 2 Pt 2	73.29	1354.31896	0.9	0.7	9.0	13.5	even	ok
	4	C 49 H 72 N Na O 7 P 5 Pt 2	99.41	1354.31774	-0.3	-0.2	9.9	16.5	even	ok
	5	C 44 H 76 N O 10 P 6 Pt 2	97.42	1354.31770	-0.3	-0.2	10.0	10.5	even	ok
	6	C 45 H 70 N Na O 14 P 3 Pt 2	73.93	1354.31892	0.9	0.7	10.0	12.5	even	ok
	7	C 52 H 75 I N P 4 Pt 2	100.00	1354.31780	-0.2	-0.2	10.9	17.5	even	ok
	8	C 42 H 72 I N Na O 14 Pt 2	94.99	1354.31770	-0.3	-0.2	11.4	6.5	even	ok
	9	C 53 H 74 N Na P 7 Pt 2	49.60	1354.31657	-1.5	-1.1	12.8	20.5	even	ok
	10	C 40 H 74 N O 17 P 4 Pt 2	71.24	1354.31887	0.8	0.6	13.2	6.5	even	ok
	11	C 41 H 78 I N O 10 P 3 Pt 2	45.09	1354.31648	-1.6	-1.1	14.5	4.5	even	ok
	12	C 53 H 69 I N Na O 4 P Pt 2	63.11	1354.31900	1.0	0.7	15.6	19.5	even	ok
	13	C 38 H 75 N Na O 17 P 4 Pt 2	41.87	1354.31643	-1.6	-1.2	16.6	3.5	even	ok
	14	C 55 H 73 N P 7 Pt 2	61.03	1354.31901	1.0	0.7	17.1	23.5	even	ok
	15	C 37 H 76 I N O 17 P Pt 2	80.68	1354.31765	-0.4	-0.3	18.5	0.5	even	ok

Display Report

Analysis Info

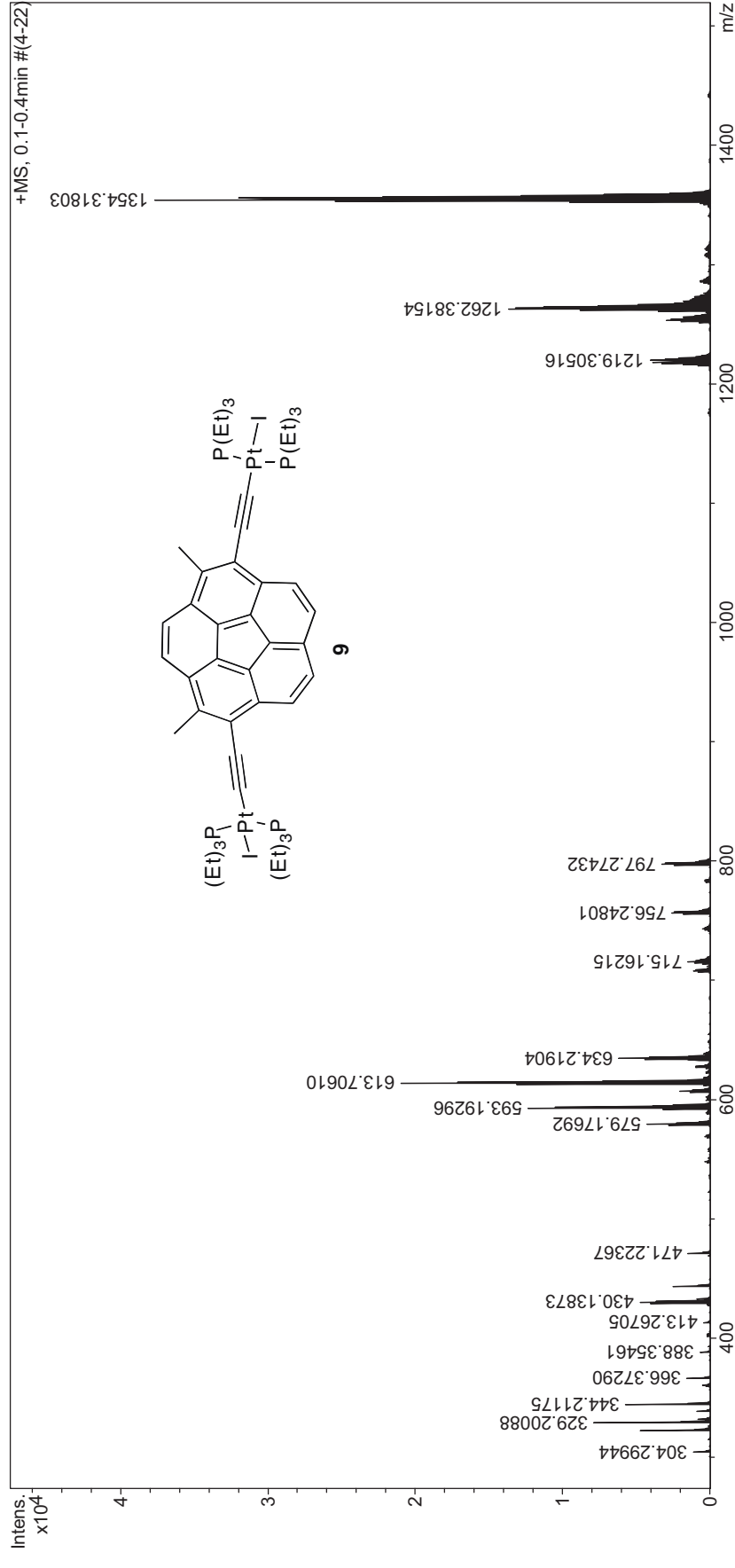
Analysis Name D:\Data\Service\0307sihres.d
Method ESI_lowMR.m
Sample Name rmm-2-195
Comment solvent : MeCN
client : Maag

Acquisition Date 7/20/2009 10:56:22 AM

Operator ust
Instrument maXis 33

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	5000 V	Set Dry Heater	180 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3500 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



Display Report

Analysis Info

Analysis Name	D:\Data\Service\0307sihres.d
Method	ESI_lowMR.m
Sample Name	mm-2-195
Comment	solvent : MeCN client : Maag

Acquisition Date 7/20/2009 10:56:22 AM

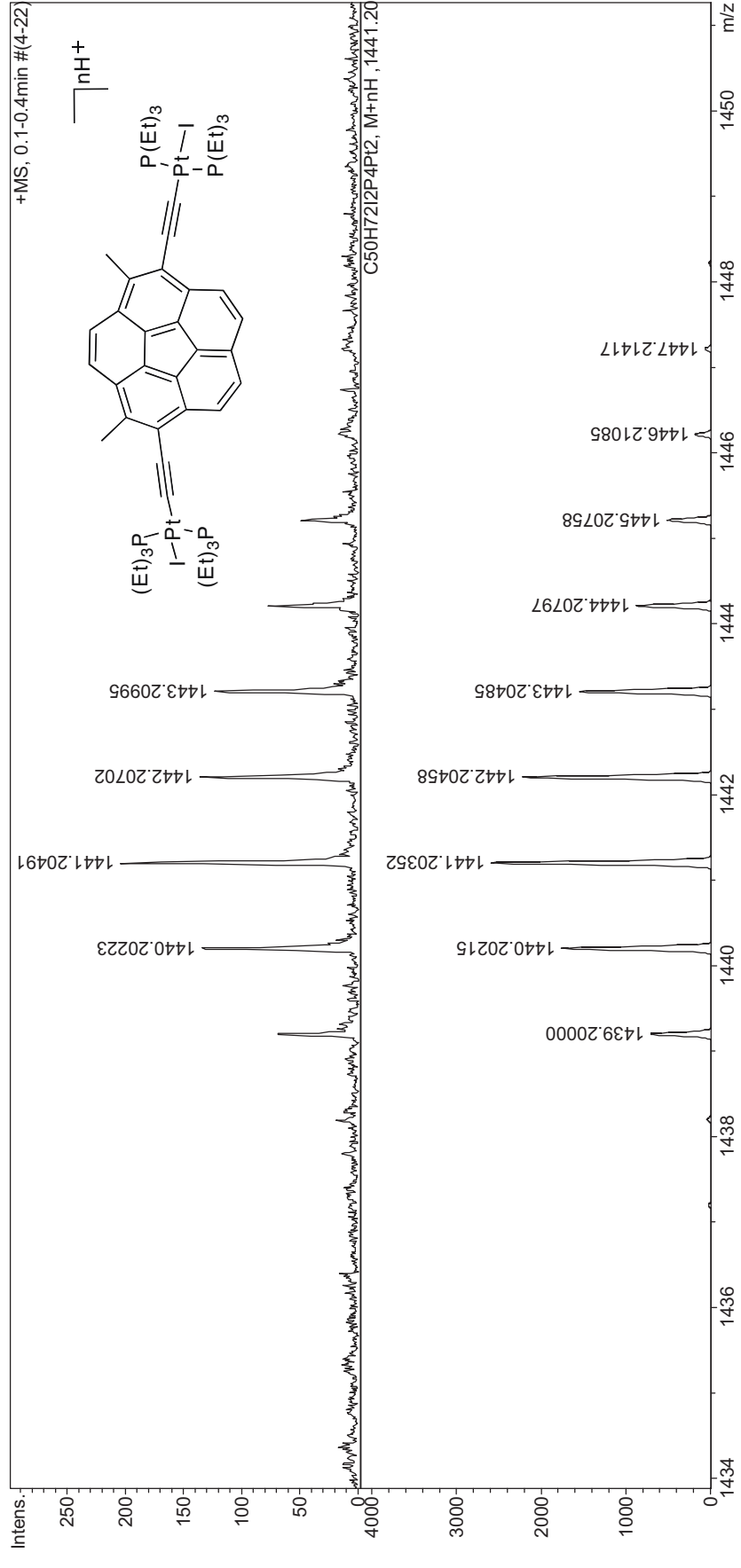
Operator	ust
Instrument	maXis

Acquisition Parameter

Source Type	ESI
Focus	Not active
Scan Begin	200 m/z
Scan End	3500 m/z

Ion Polarity	Positive
Set Capillary	5000 V
Set End Plate Offset	-500 V
Set Collision Cell RF	300.0 Vpp

Set Nebulizer	0.4 Bar
Set Dry Heater	180 °C
Set Dry Gas	4.0 l/min
Set Divert Valve	Source



Display Report

Analysis Info

Analysis Name	D:\Data\Service\0307\sihres.d
Method	ESI_lowMR.m
Sample Name	rmm-2-195
Comment	solvent : MeCN client : Maag

Acquisition Date 7/20/2009 10:56:22 AM

Method
ESI lowMR.m

Sample Name	rmm-2-195
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Comment	solvent : MeCN
1	1
2	2
3	3
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95	95
96	96
97	97
98	98
99	99
100	100

client : Maag

Operator
Instrument

33

Acquisition Parameter

Source Type

Focus

Scan Begin

Scan End

SE

Not active

200 m/z

7/11/06cc

Ion Polarity

Set Capillary

Set End Plate Offset

Self Collision Cell RF

Positive

5000 V

500-009-

300.0 vpp

Set Nebulizer

Set Dry Heater

Set Dry Gas

Set Diverl valve

0.4 Bar

180 °C

4.0 l/min

source

