Supplementary Information

of Aspidosperma-type alkaloid dimer as a candidate for inhibition of microglial activation

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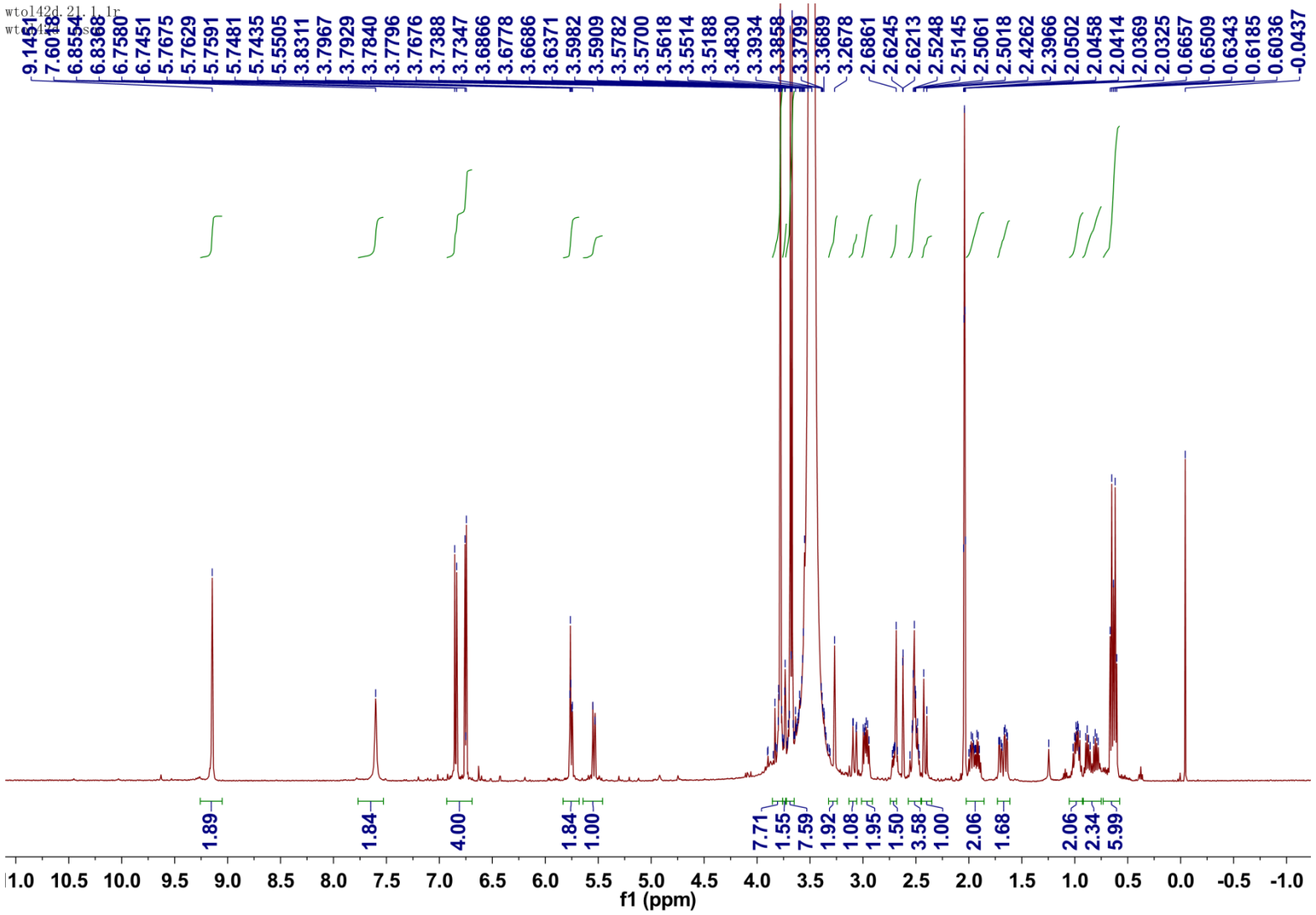


Figure S1. ^{1}H (500 MHz) NMR of compound **1** in acetone-d_6

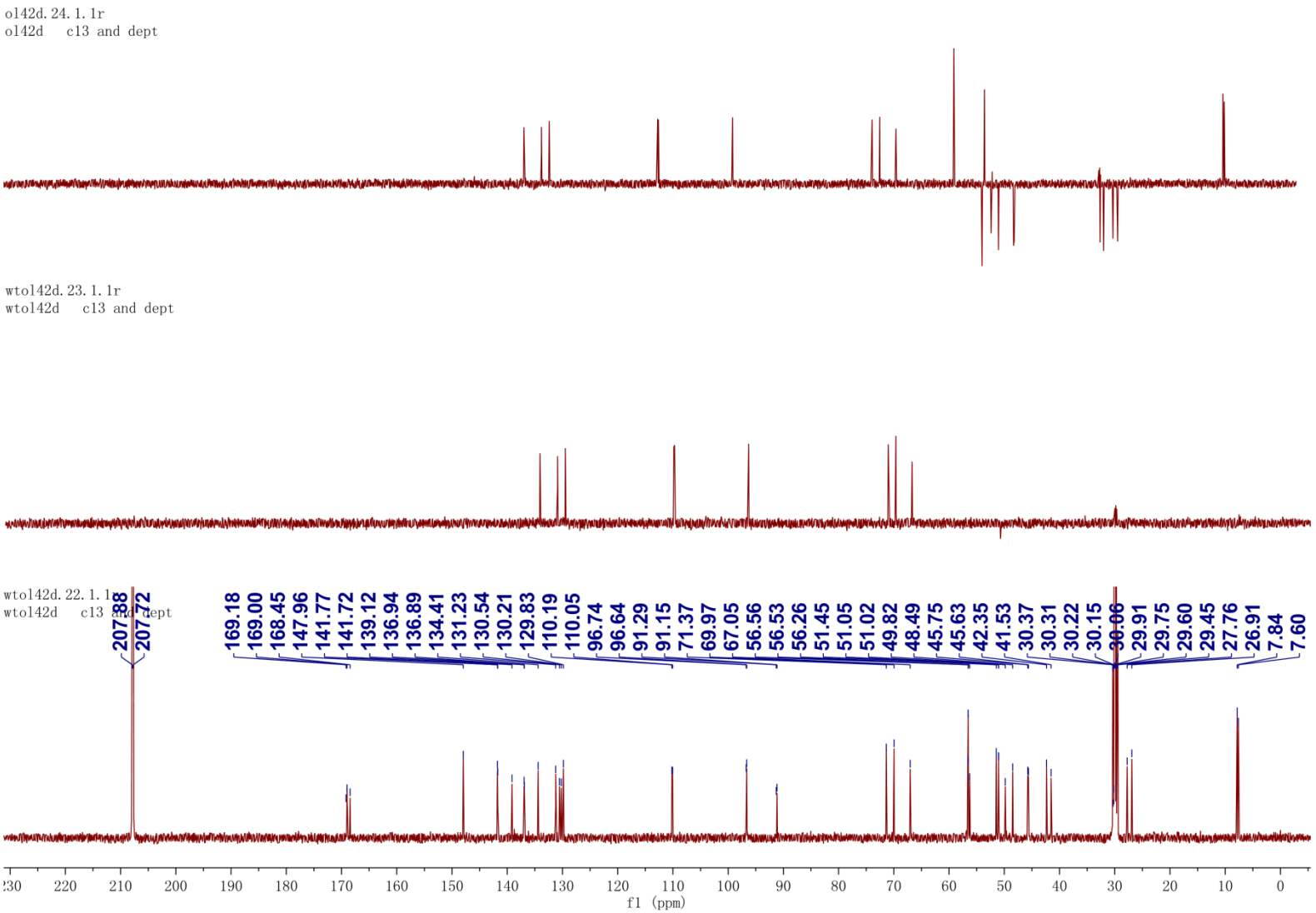


Figure S2. ^{13}C (125 MHz) NMR of compound **1** in acetone-d_6

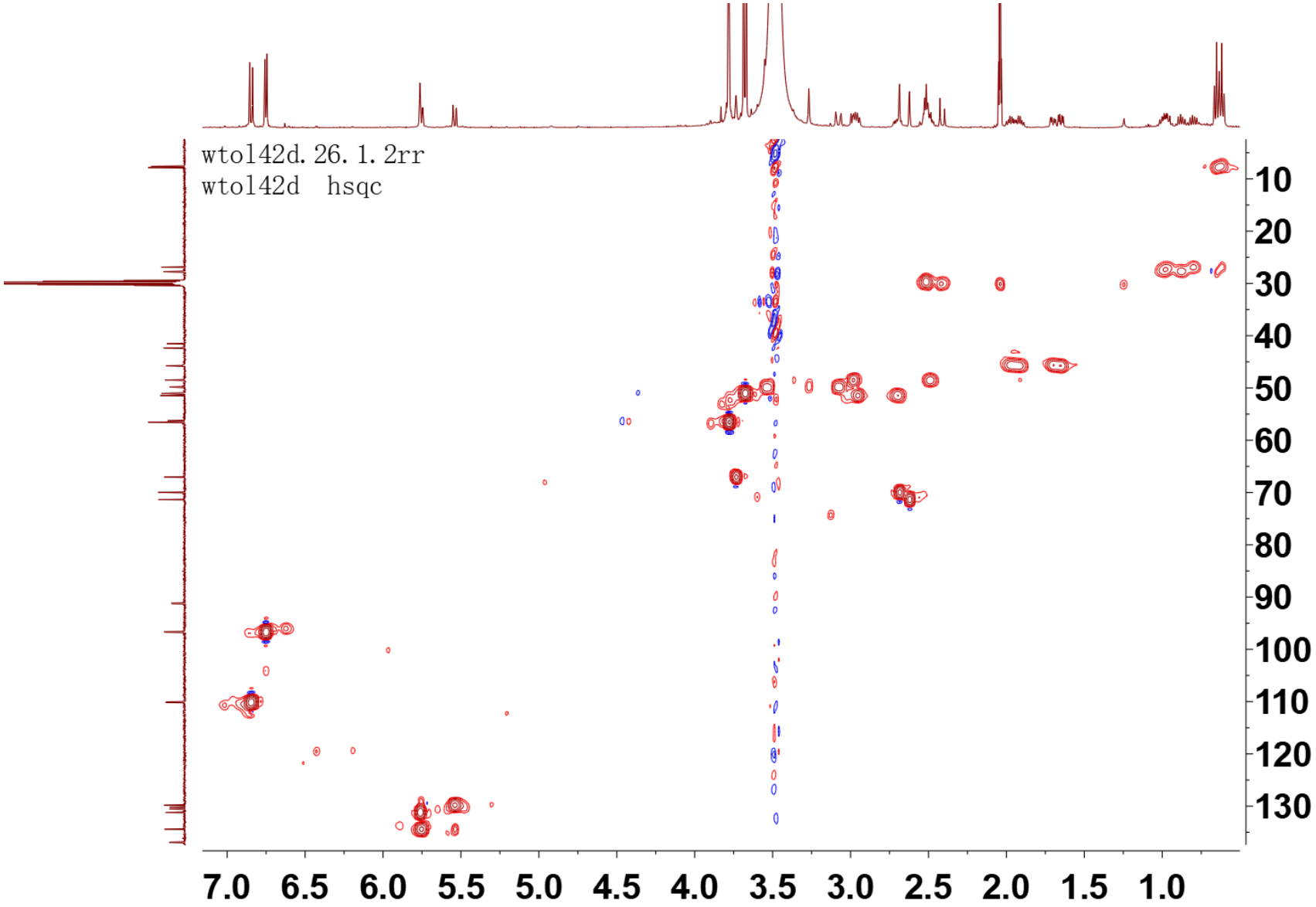


Figure S3. HSQC of compound **1** in acetone-d_6

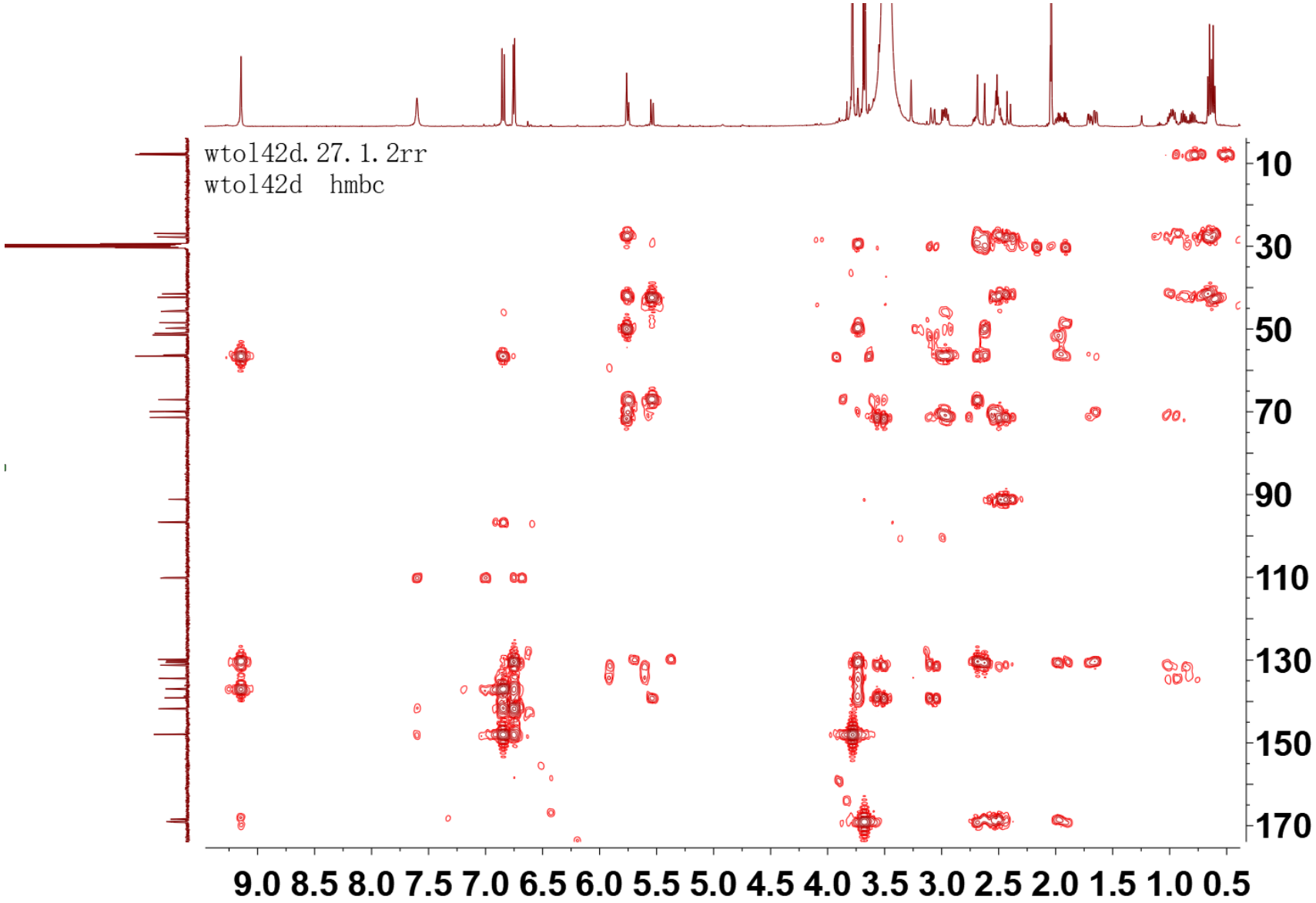


Figure S4. HMBC of compound **1** in acetone-d_6

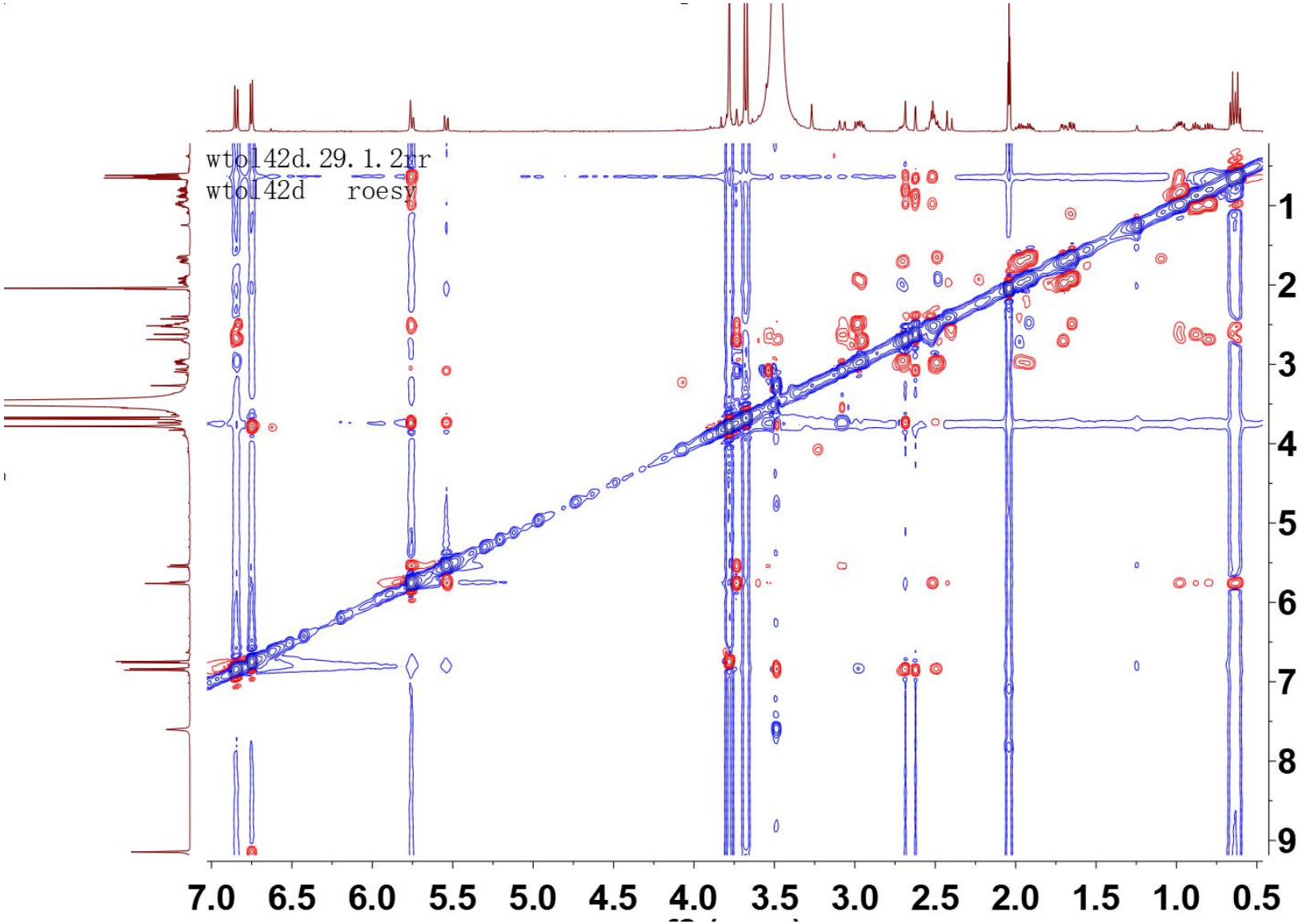


Figure S5. ROESY of compound **1** in acetone-d_6

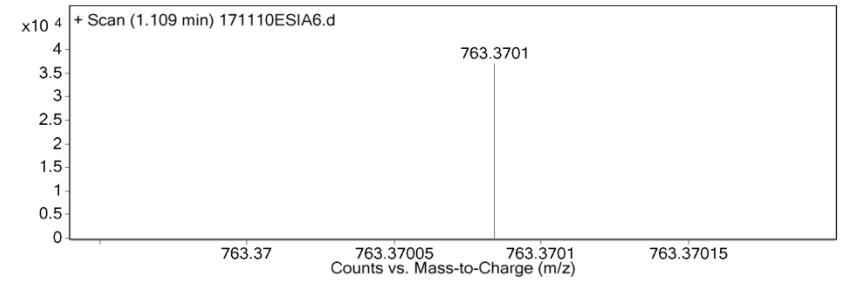
Qualitative Analysis Report

Data Filename	171110ESIA6.d	**Sample Name**	wtol-42d
Sample Type	Sample	**Position**	
Instrument Name	Agilent G6230 TOF MS	**User Name**	KIB
Acq Method	ESI.m	**Acquired Time**	11/10/2017 11:12:18 AM
IRM Calibration Status	Success	**DA Method**	ESI.m
Comment			

Sample Group	**Info.**
Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.05.01 (B5125.2)

User Spectra

Fragmentor Voltage	Collision Energy	Ionization Mode
250	0	ESI



Peak List

m/z	z	Abund	Formula	Ion
107.0608	1	110799.56		
108.0632	1	9722.35		
121.0509	1	10230.32		
122.5473		2486.47		
123.0915	1	14242.21		
763.3701	1	36990.8	C44 H51 N4 O8	M+
764.3721	1	15293.82	C44 H51 N4 O8	M+
765.3748	1	3049.42	C44 H51 N4 O8	M+
922.0098	1	44112.11		
923.0113	1	6367.2		

Formula Calculator Element Limits

Element	Min	Max
C	0	200
H	0	400
O	4	10
N	4	4

Formula Calculator Results

Formula	CalculatedMass	Mz	Diff.(mDa)	Diff. (ppm)	DBE
C44 H51 N4 O8	763.3707	763.3701	0.6	0.8	21.5

--- End Of Report ---

Figure S6. HRESIMS of compound **1**

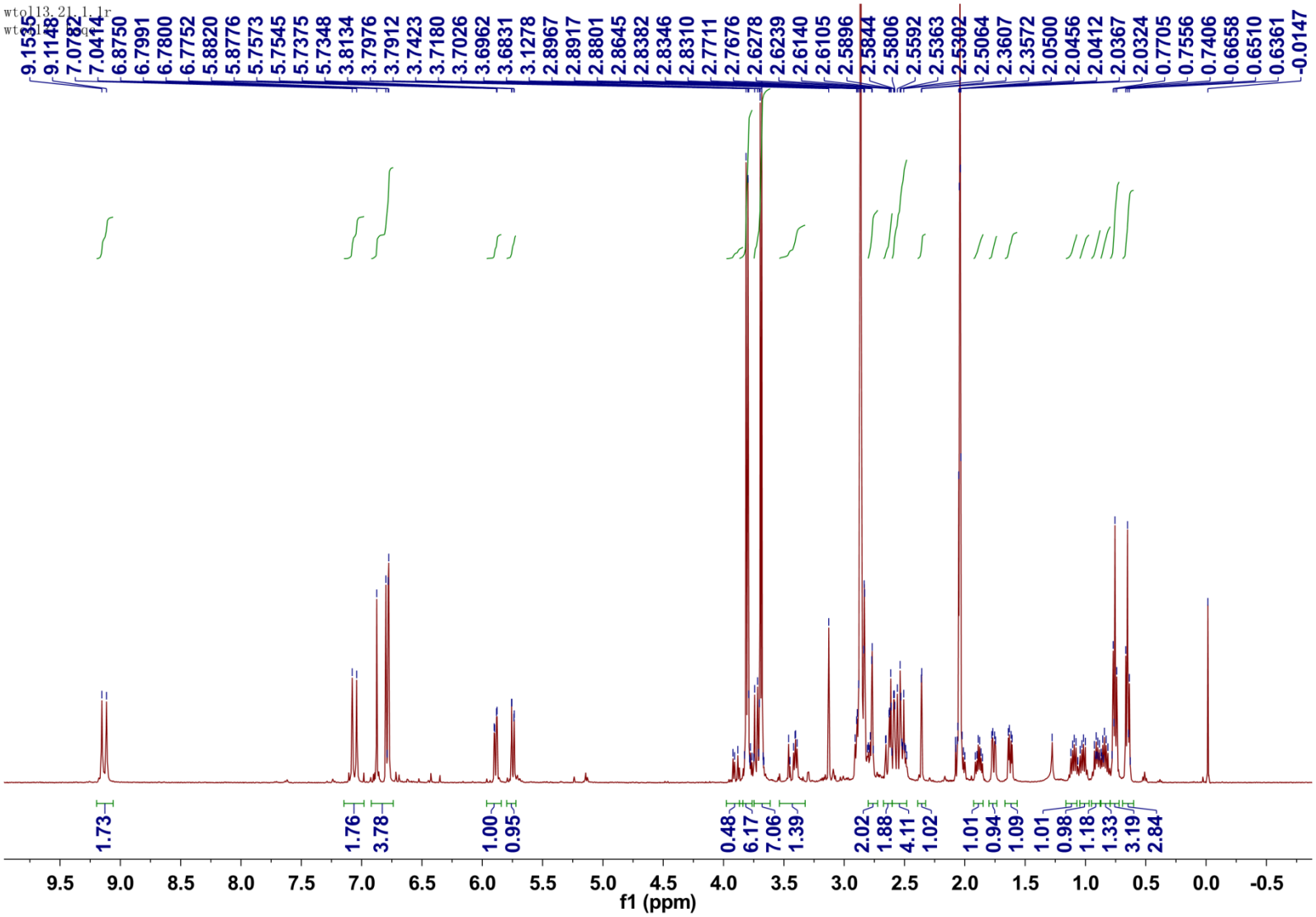


Figure S7 ^{1}H (500 MHz) NMR spectrum of compound **2** in acetone-d_6

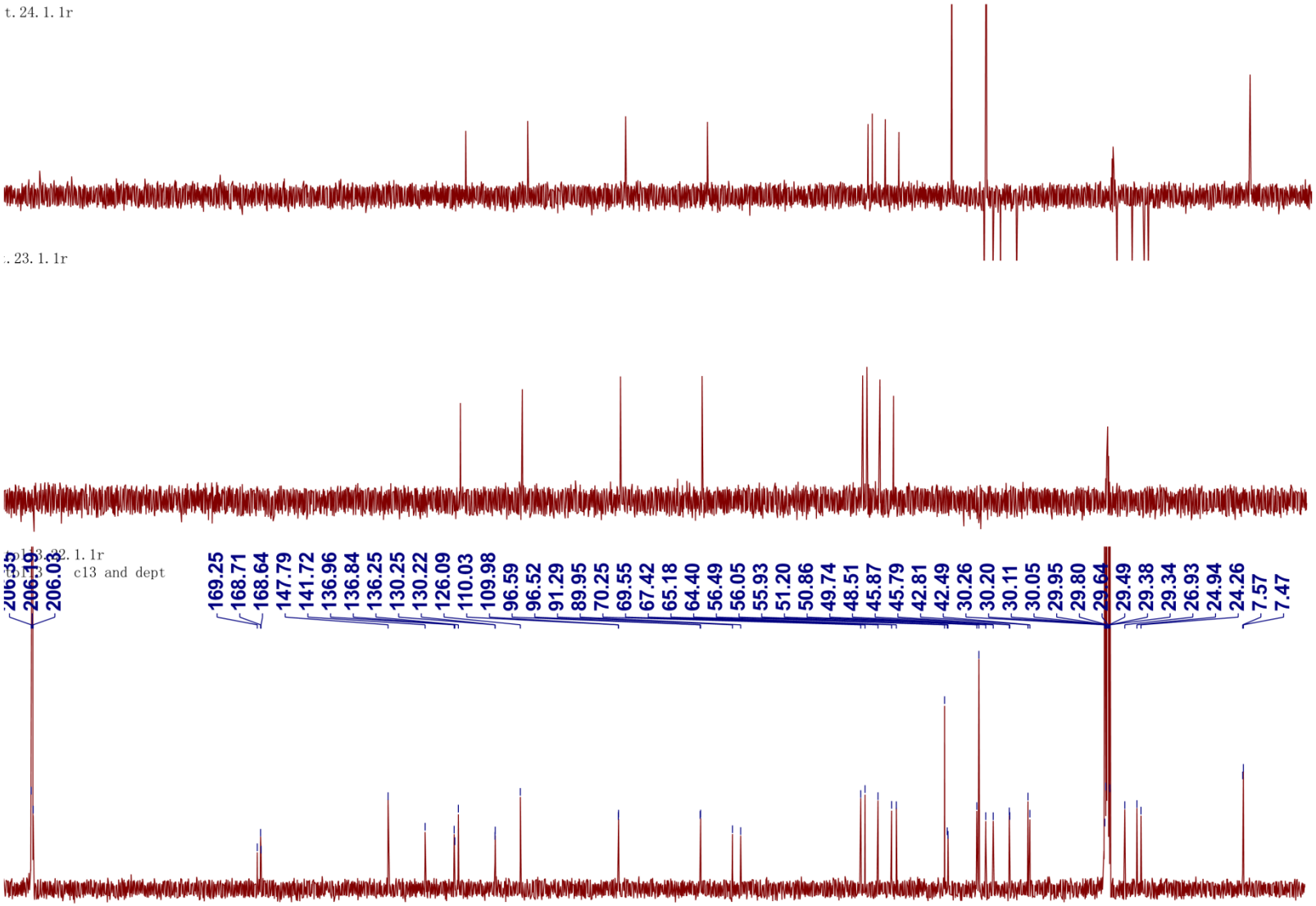


Figure S8 ^{13}C (125 MHz) NMR spectrum of compound **2** in acetone-d_6

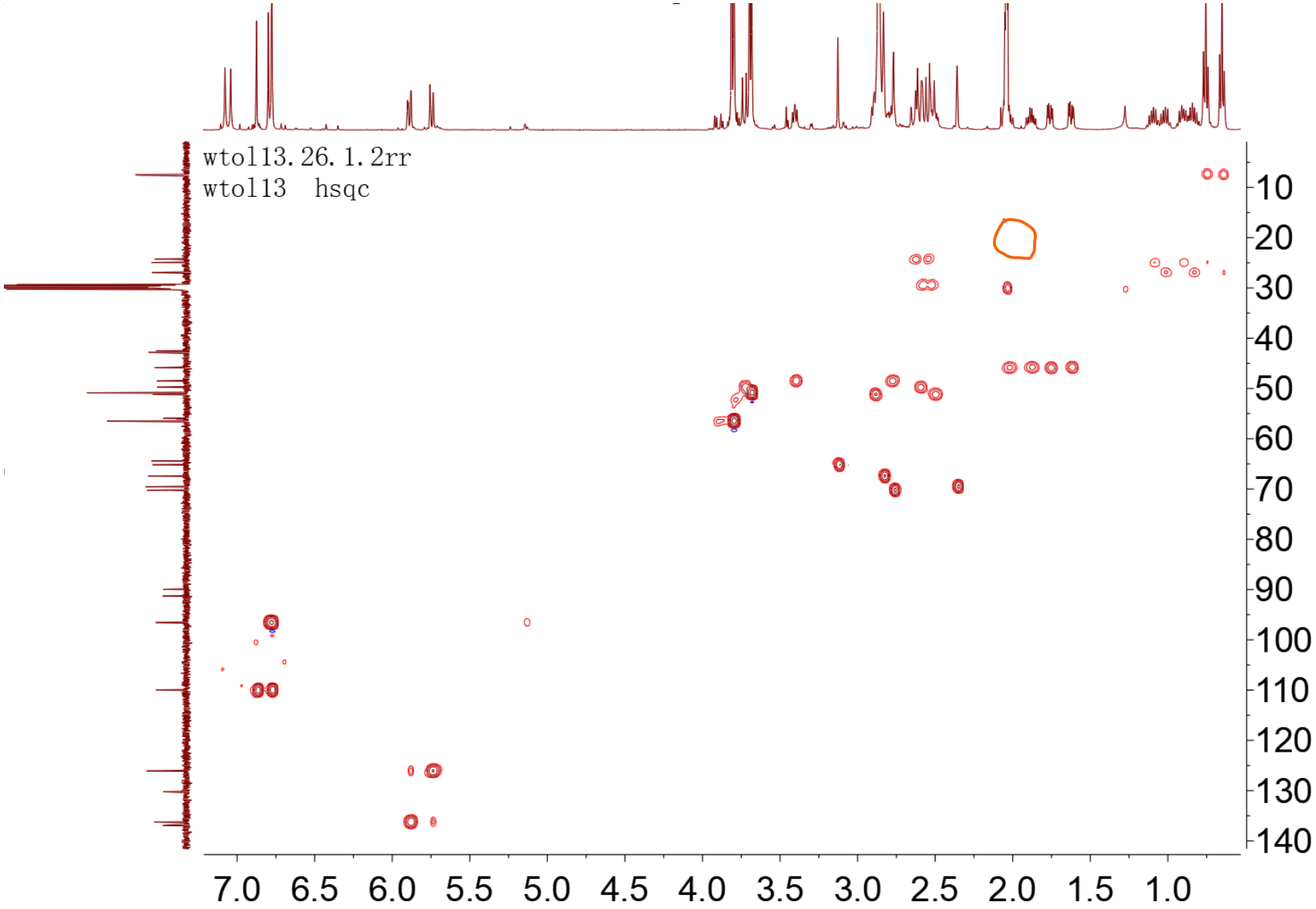


Figure S9 HSQC spectrum of compound **2** in acetone-d_6

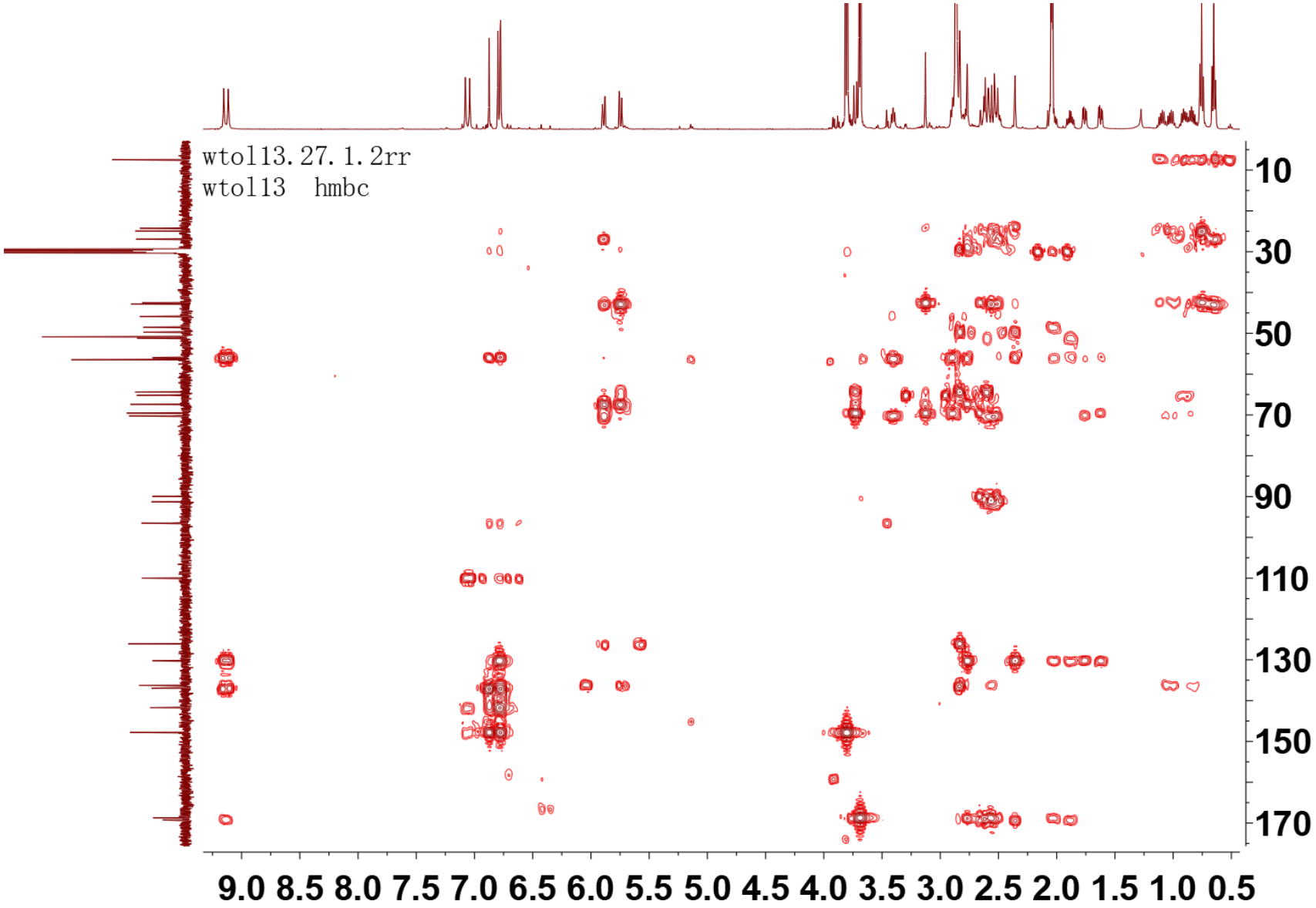


Figure S10 HMBC spectrum of compound **2** in acetone-d_6

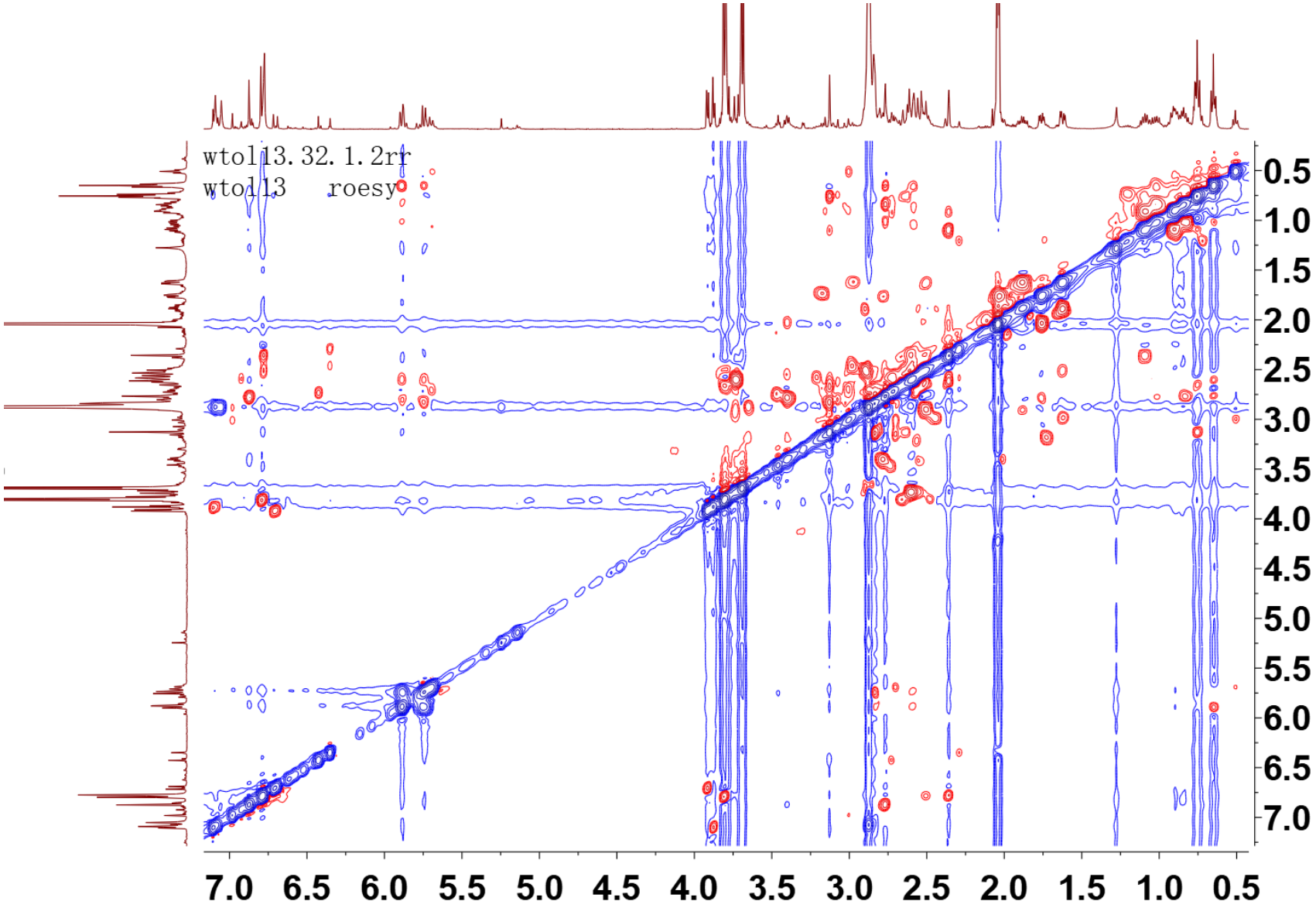


Figure S11 ROESY spectrum of compound **2** in acetone-d_6

Formula Predictor Report - wtol13.lcd

Data File: E:\DATA\2017\0920\wtol13.lcd

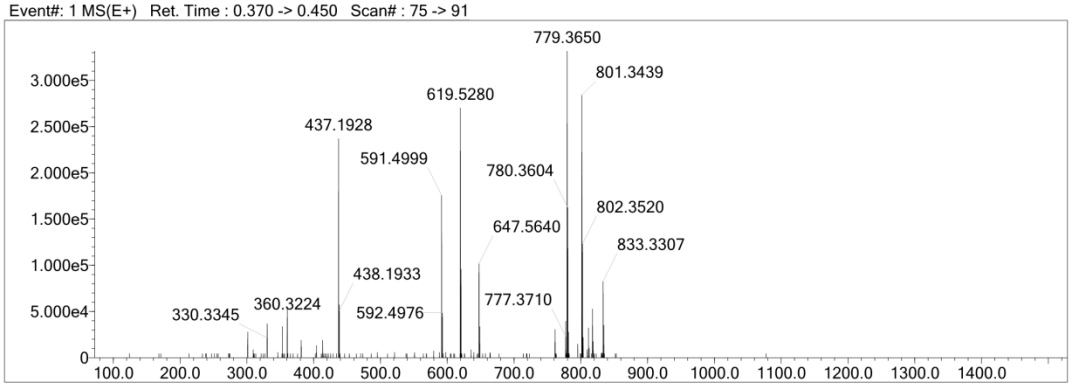
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	0	100	N	3	0	50	Mg	2	0	0	Fe	2	0	0	H
2H	1	0	0	O	2	0	50	P	3	0	0	Br	1	0	0	
B	3	0	0	F	1	0	0	S	2	0	0	I	3	0	0	
C	4	0	100	Na	1	0	0	Cl	1	0	0	Pt	2	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

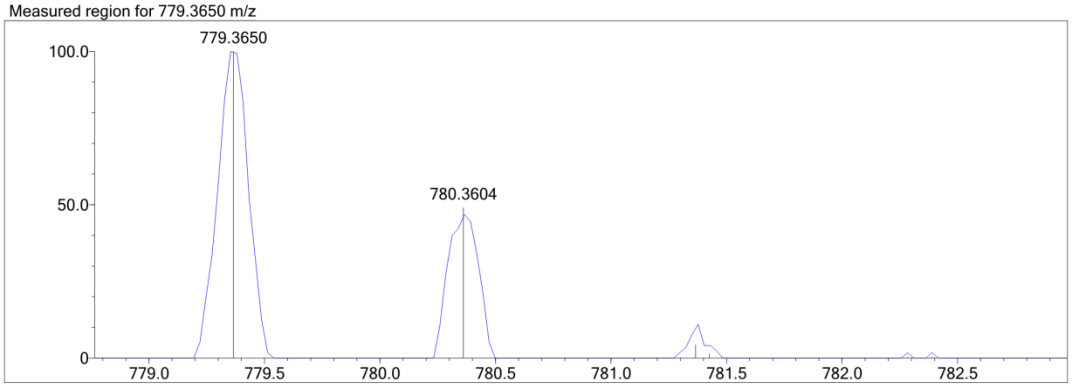
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

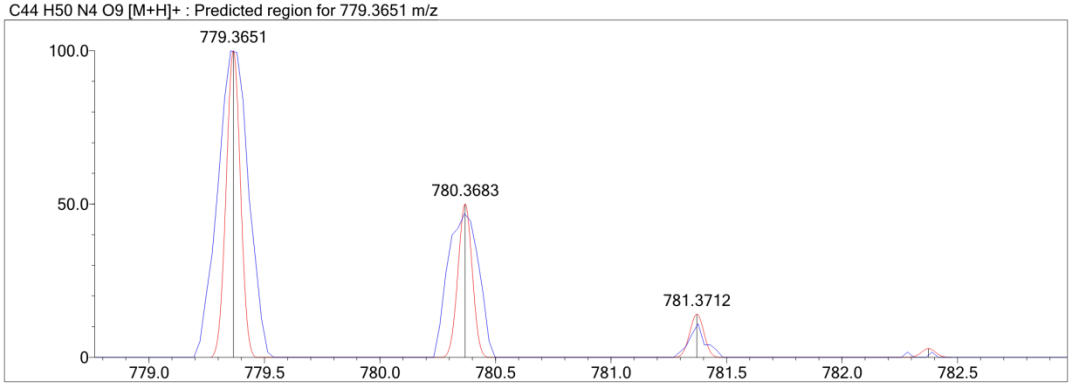
Event#: 1 MS(E+) Ret. Time : 0.370 -> 0.450 Scan# : 75 -> 91



Measured region for 779.3650 m/z



C44 H50 N4 O9 [M+H]+ : Predicted region for 779.3651 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H50 N4 O9	[M+H]+	779.3650	779.3651	-0.1	-0.13	22.0

Figure S12 HRESIMS spectrum of acetone-d_6

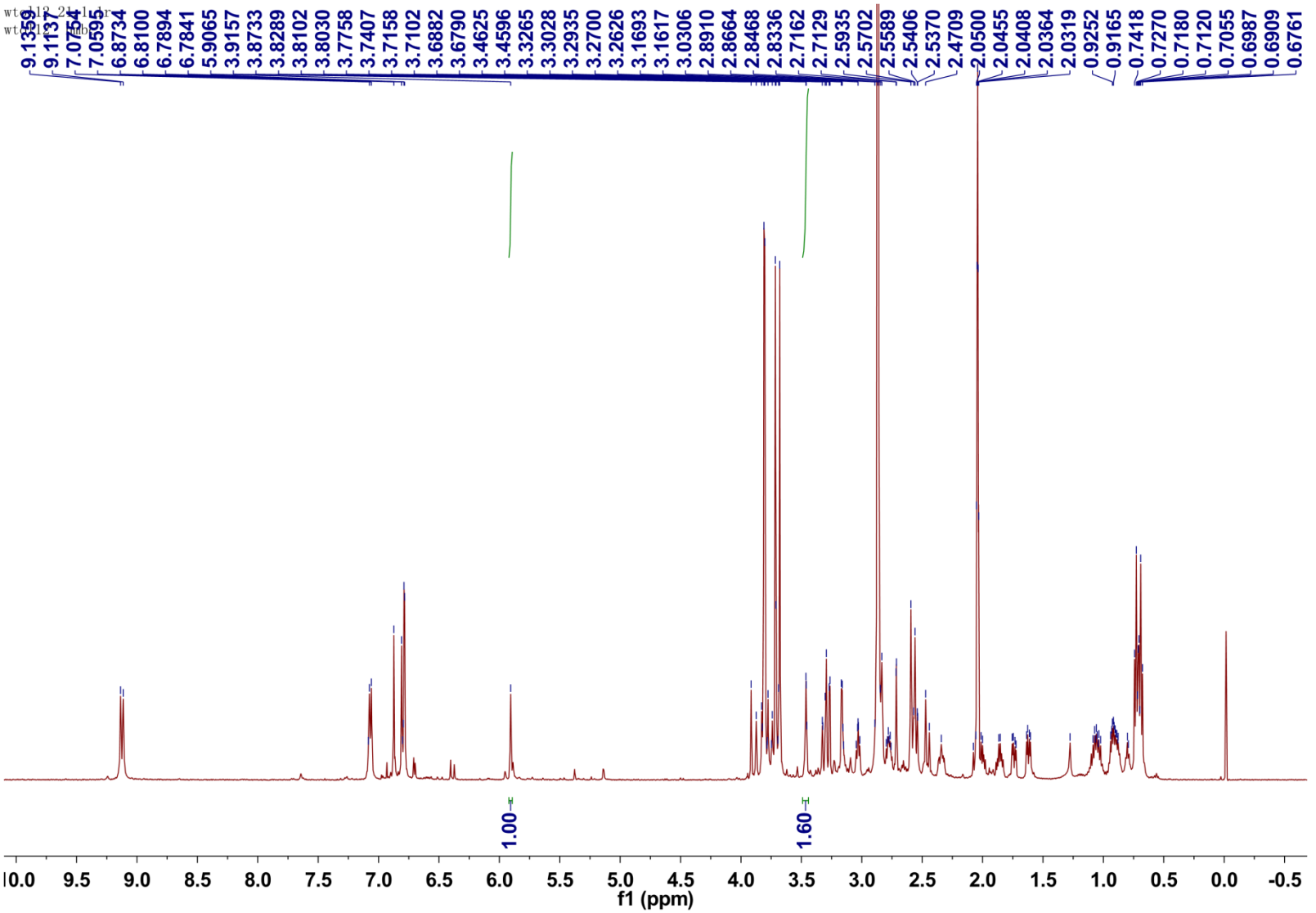


Figure S13 ^{1}H (500 MHz) NMR spectrum of compound **3** in acetone-d_6

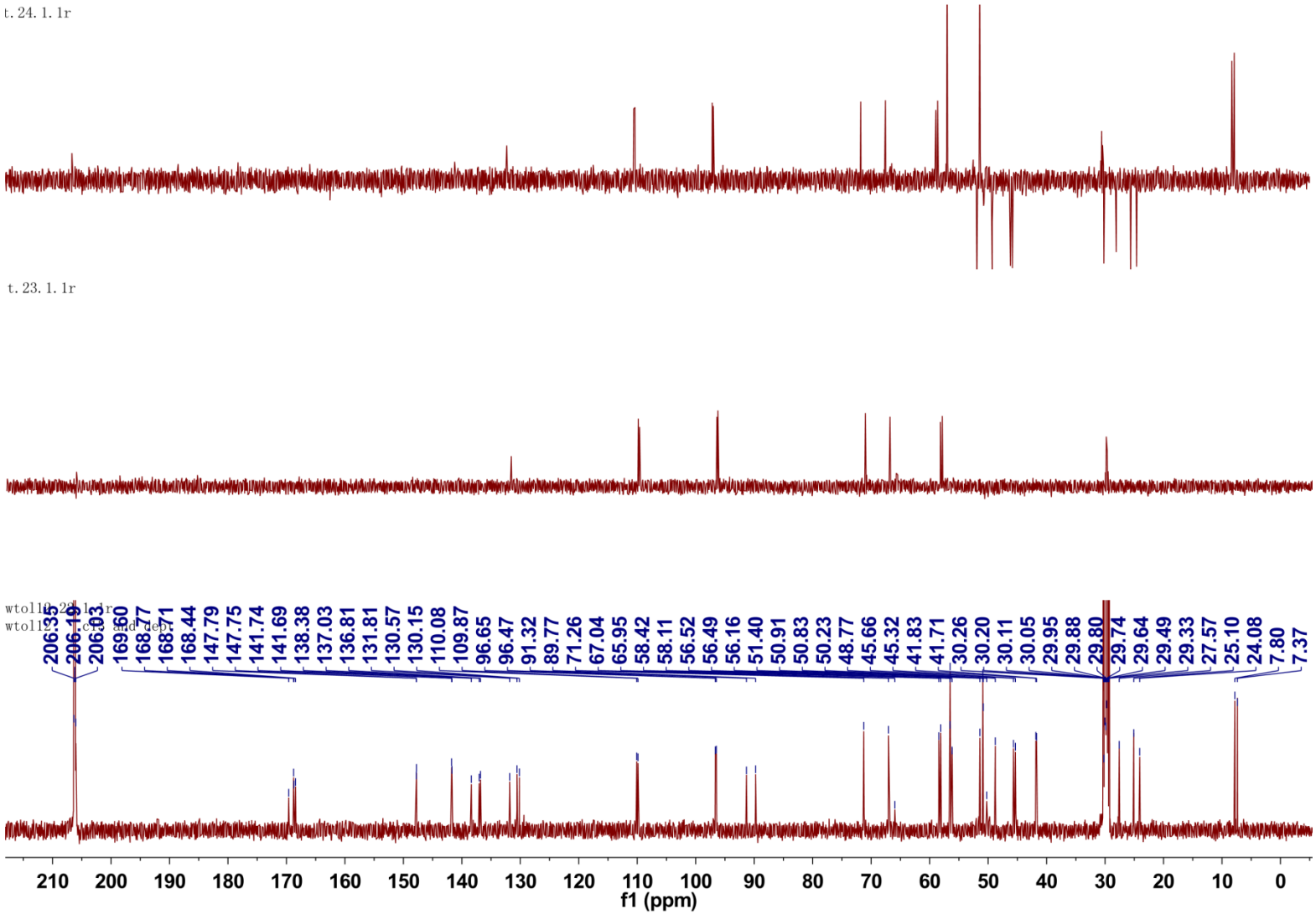


Figure S14 ^{13}C (125 MHz) NMR spectrum of compound **3** in acetone-d_6

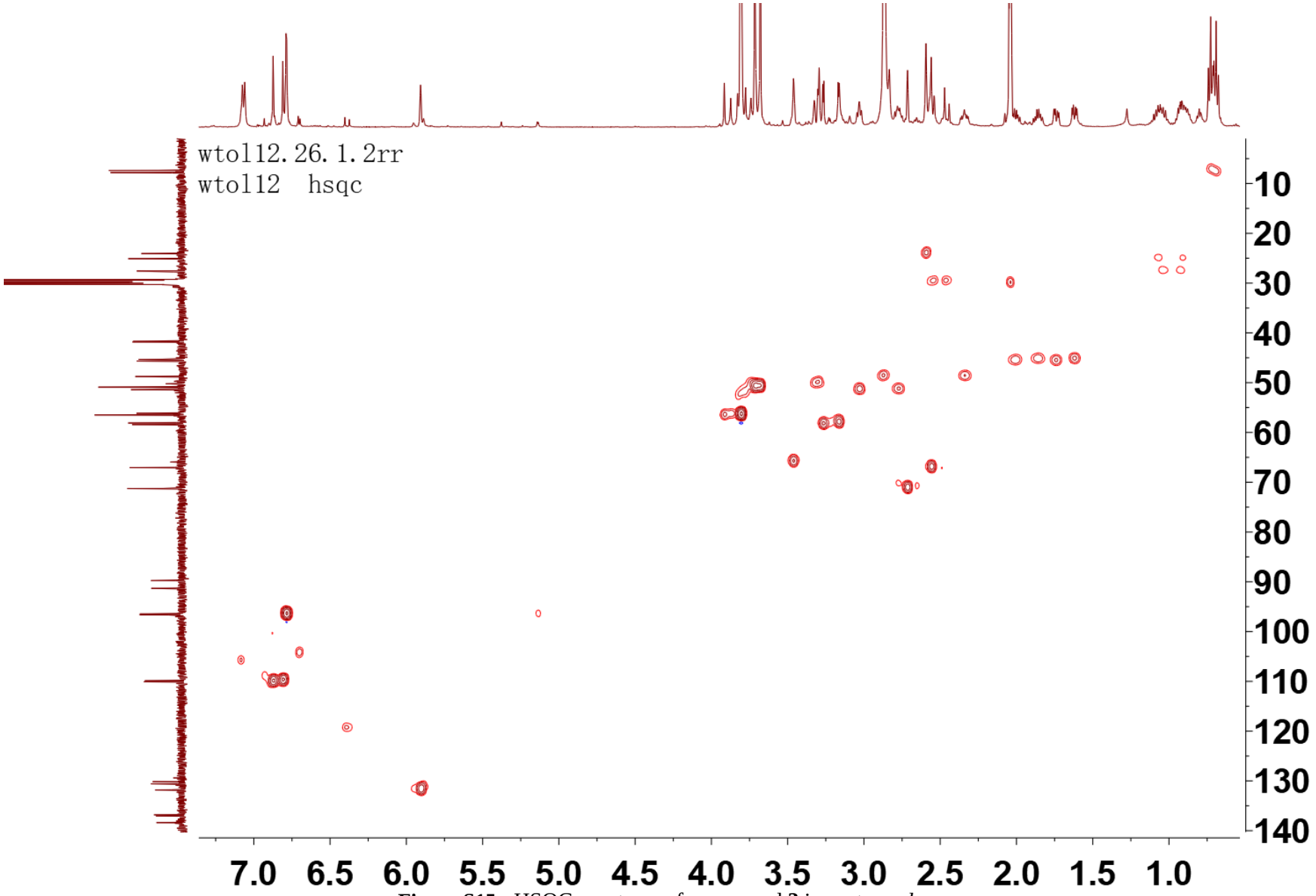


Figure S15 HSQC spectrum of compound **3** in acetone-d_6

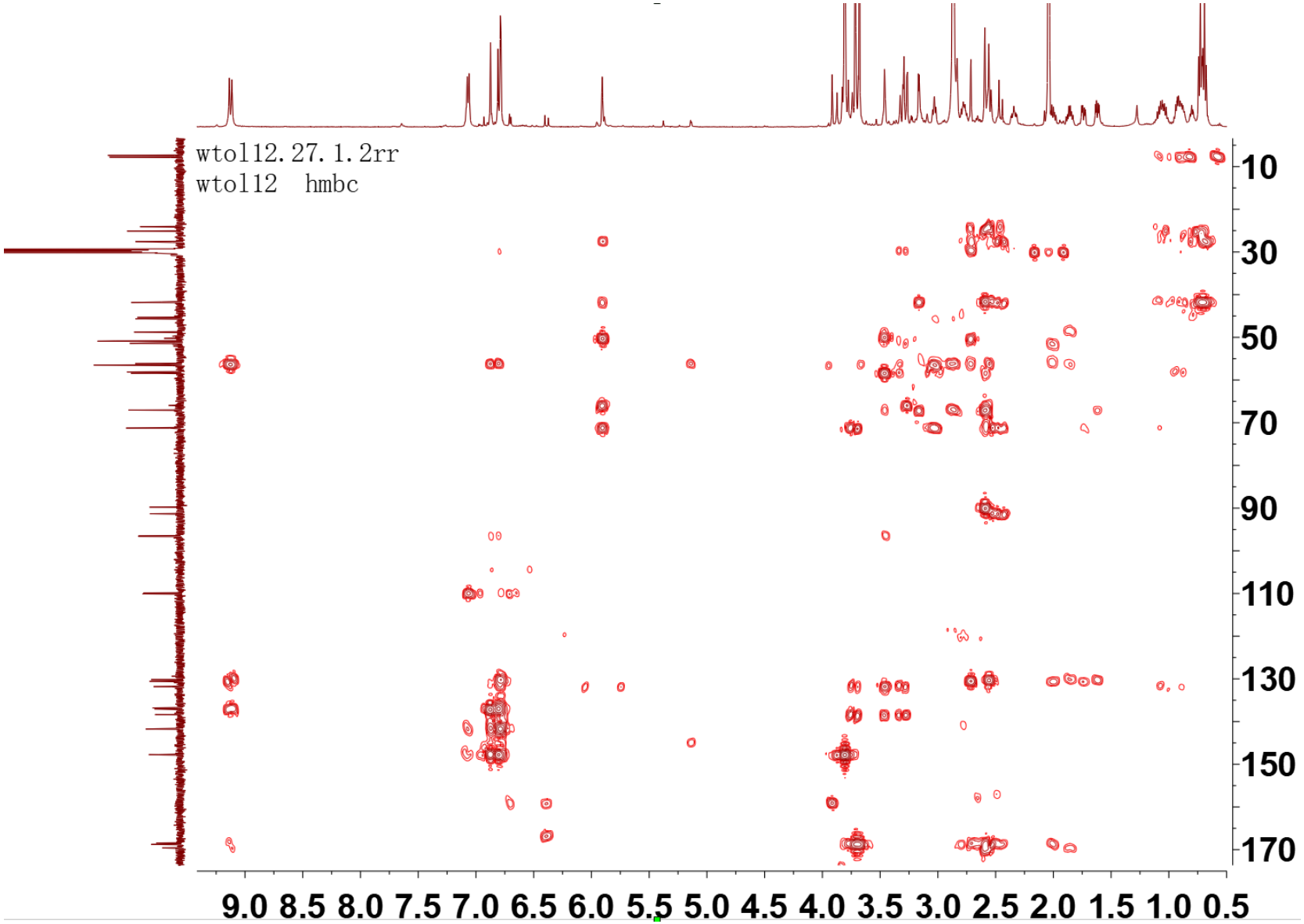


Figure S16 HMBC spectrum of compound **3** in acetone-d_6

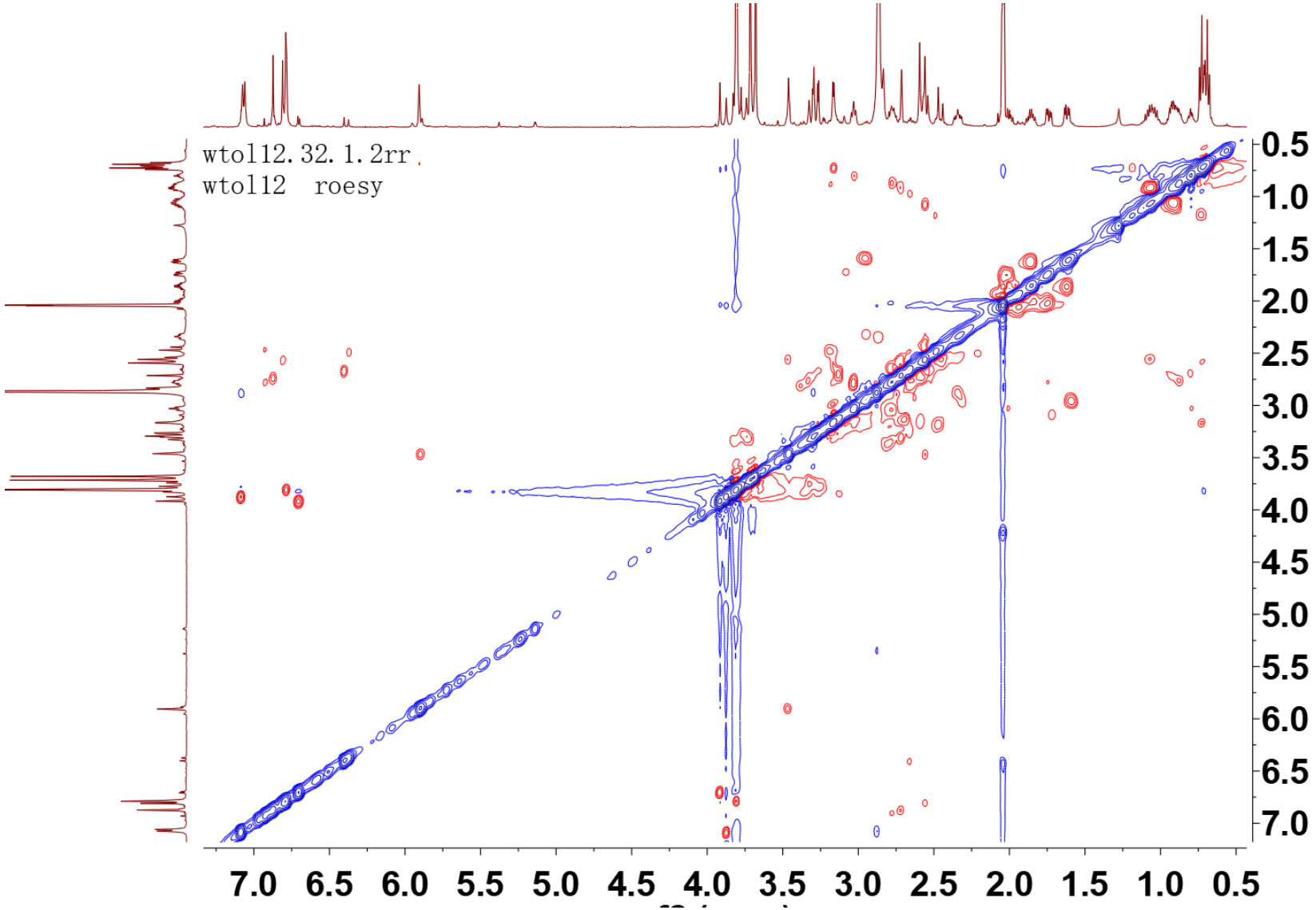


Figure S17 ROESY spectrum of compound **3** in acetone-d_6

Formula Predictor Report - wtol12.lcd

Data File: E:\DATA\2017\0920\wtol12.lcd

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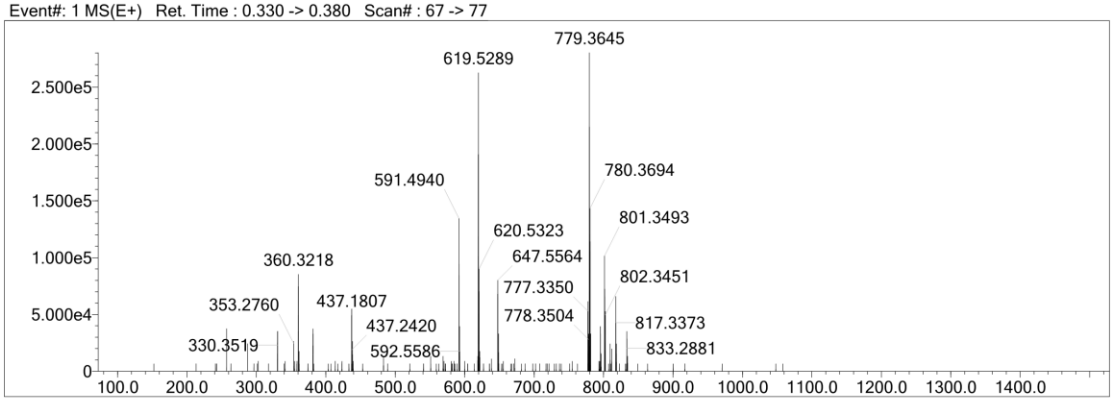
2H	1	0	0	O	2	0	50	P	3	0	0	Br	1	0	0	
B	3	0	0	F	1	0	0	S	2	0	0	I	3	0	0	
C	4	0	100	Na	1	0	0	Cl	1	0	0	Pt	2	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

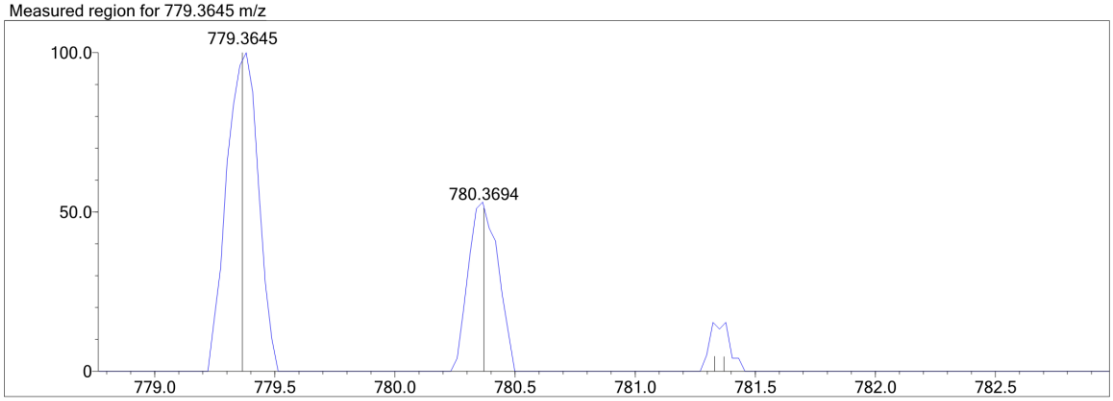
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

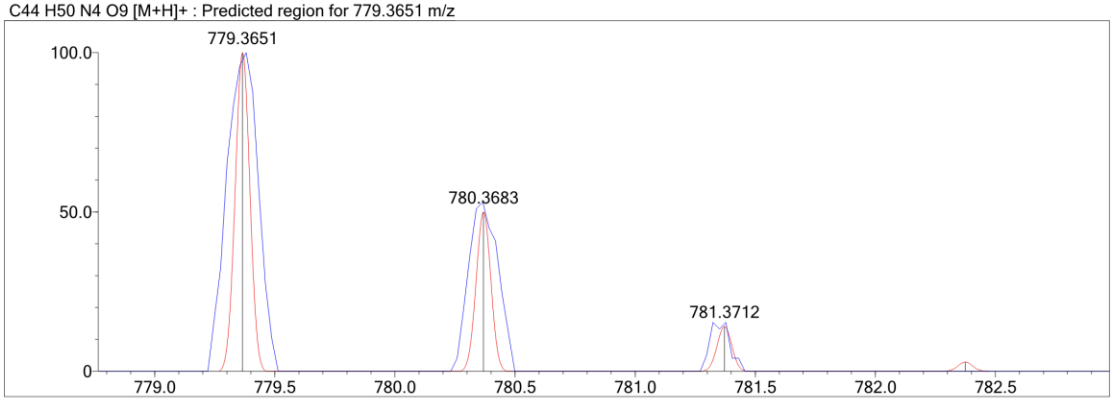
Event#: 1 MS(E+) Ret. Time : 0.330 -> 0.380 Scan# : 67 -> 77



Measured region for 779.3645 m/z



C44 H50 N4 O9 [M+H]+ : Predicted region for 779.3651 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H50 N4 O9	[M+H]+	779.3645	779.3651	-0.6	-0.77	22.0

Figure S18 HRESIMS spectrum of compound **3**

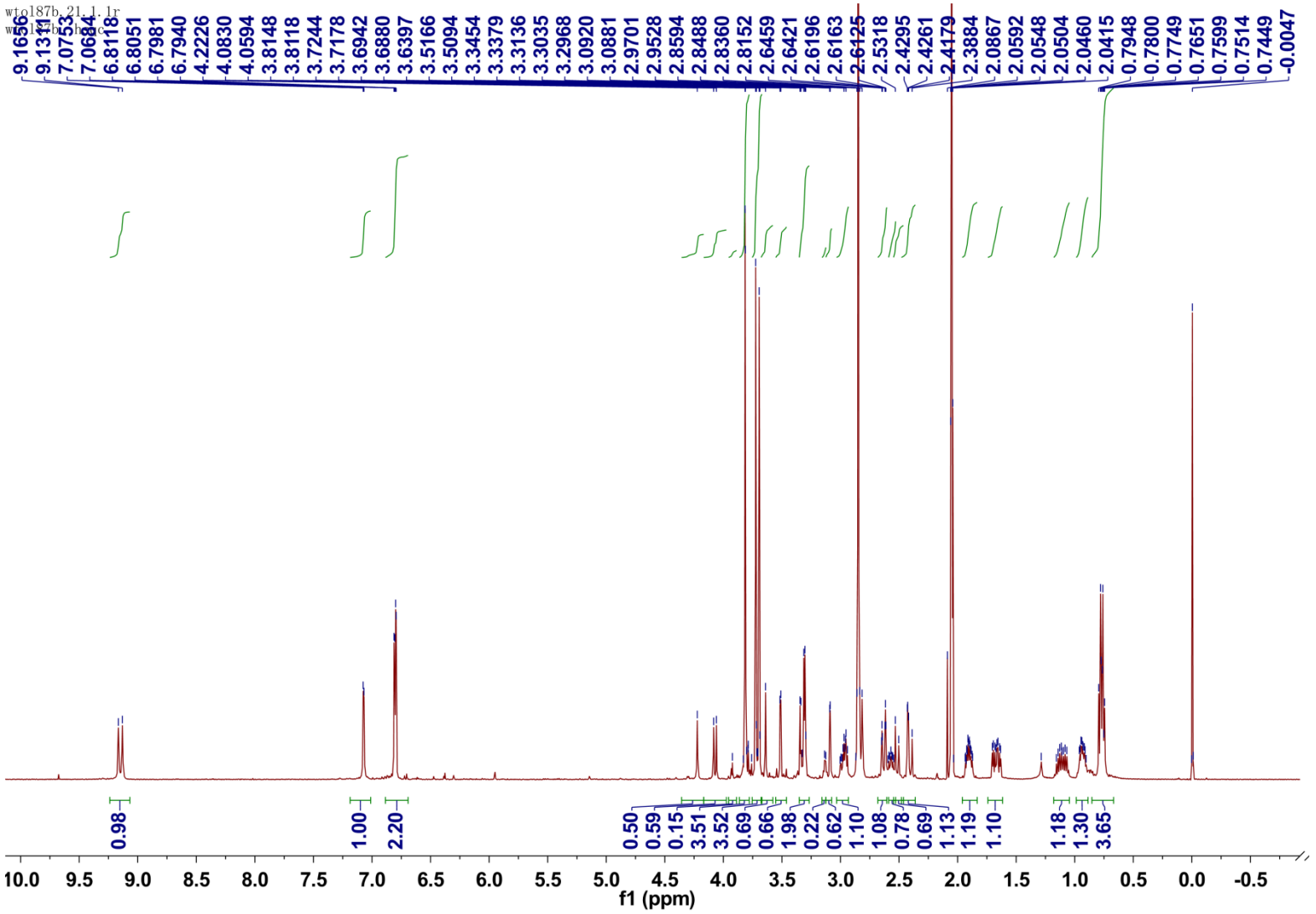


Figure S19 ^{1}H (125 MHz) NMR spectrum of compound **4** in acetone-d_6

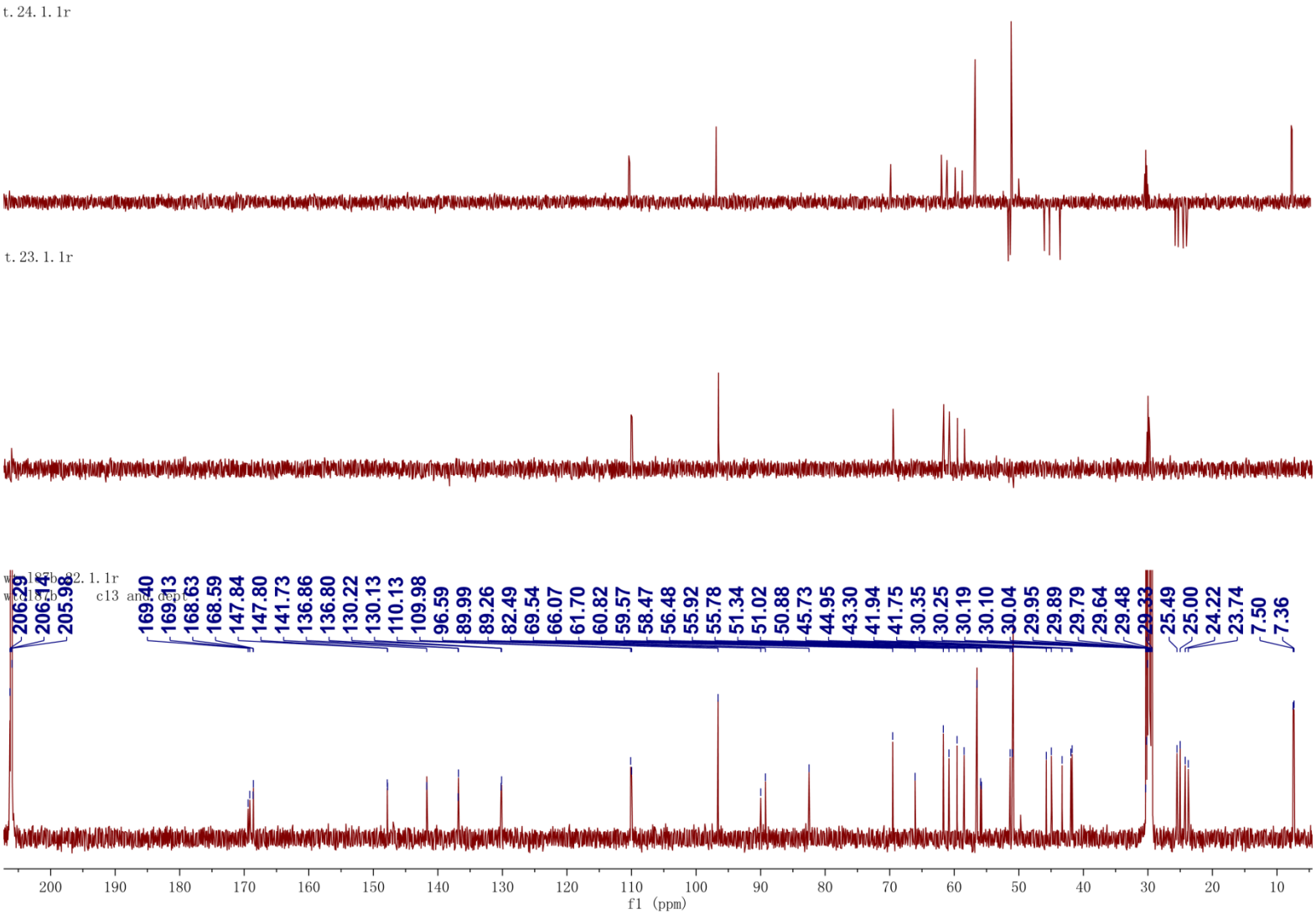


Figure S20 ^{13}C (125 MHz) NMR spectrum of compound **4** in acetone-d_6

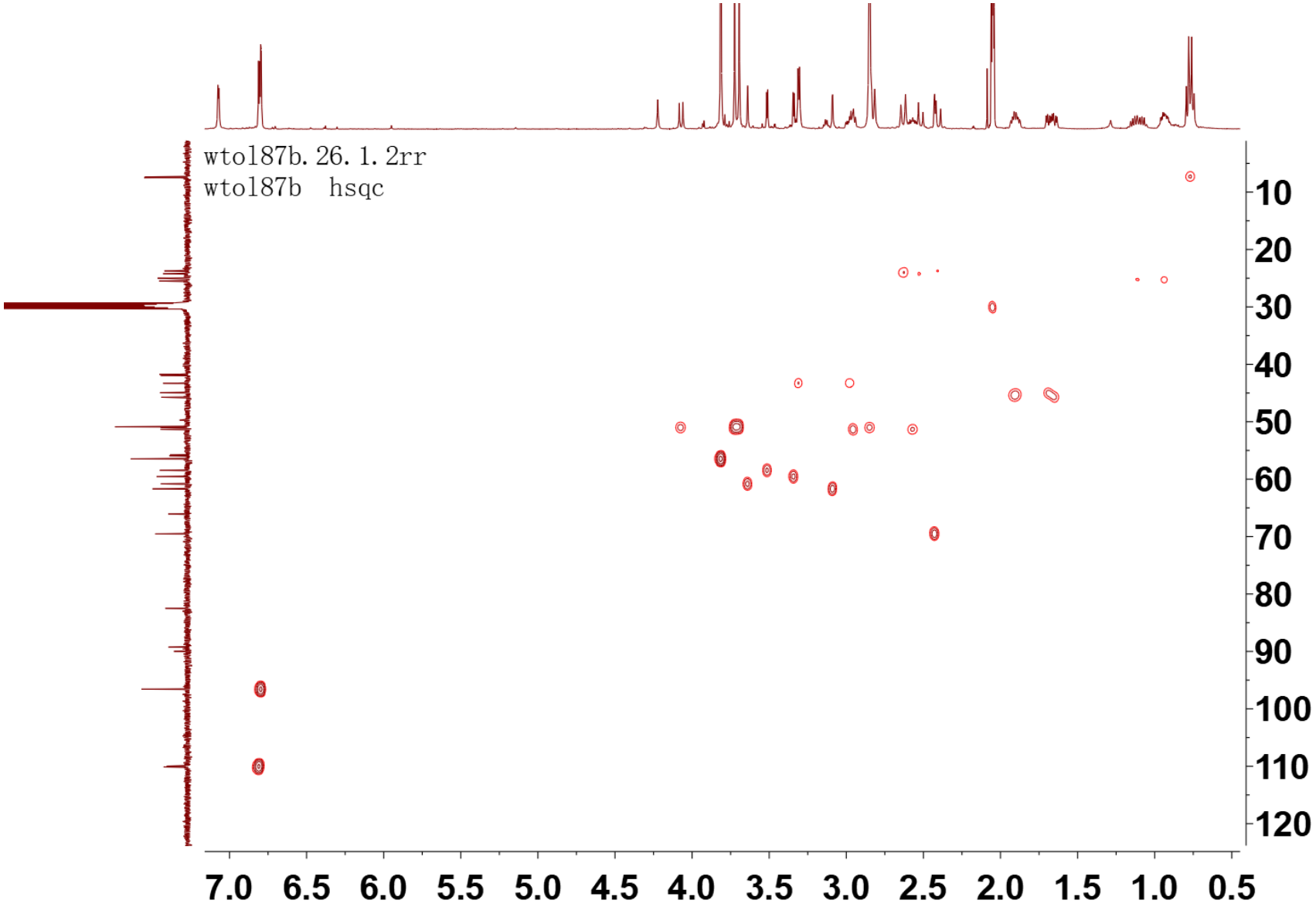


Figure S21 HSQC spectrum of compound **4** in acetone-d_6

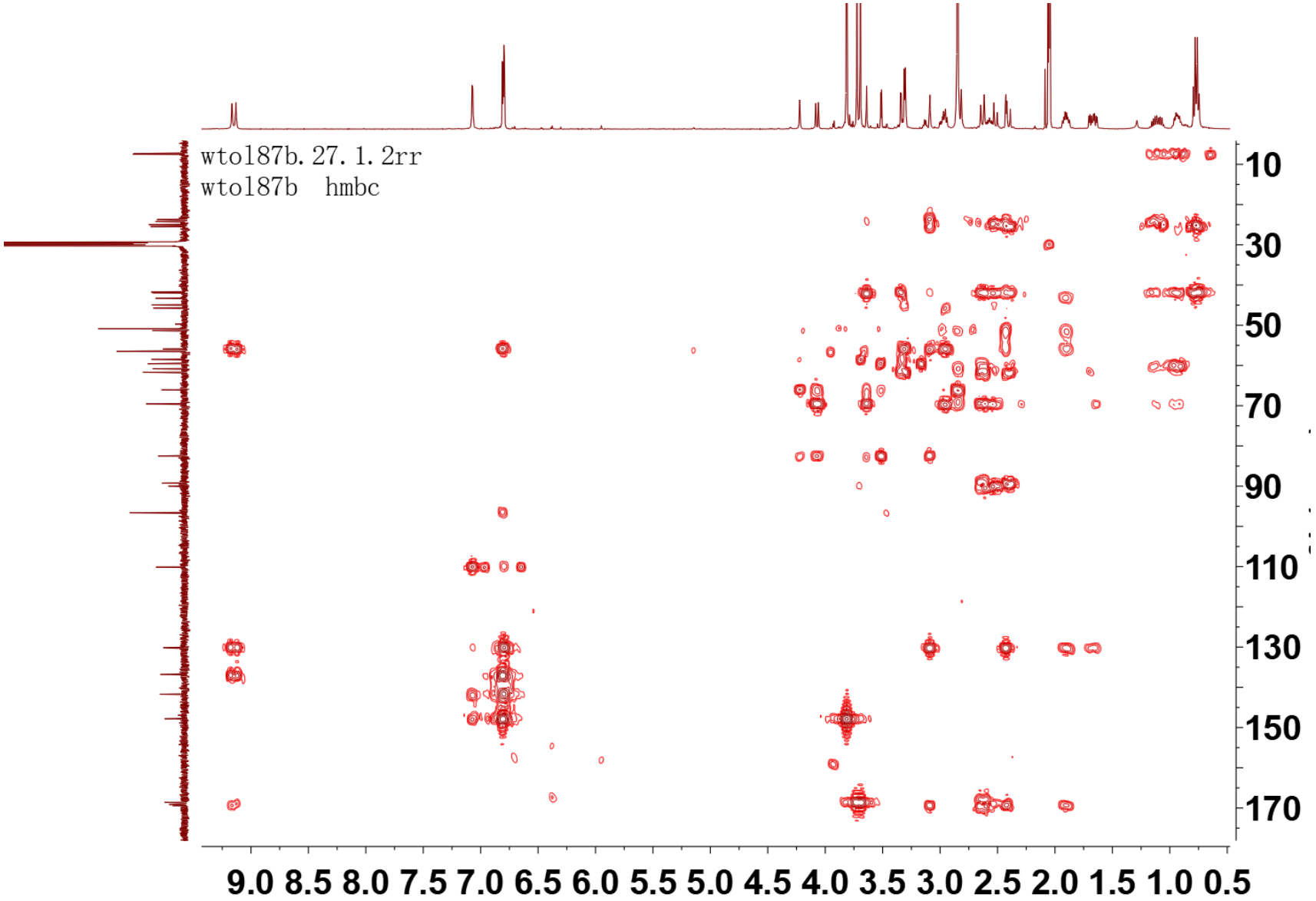


Figure S22 HMBC spectrum of compound **4** in acetone-d_6

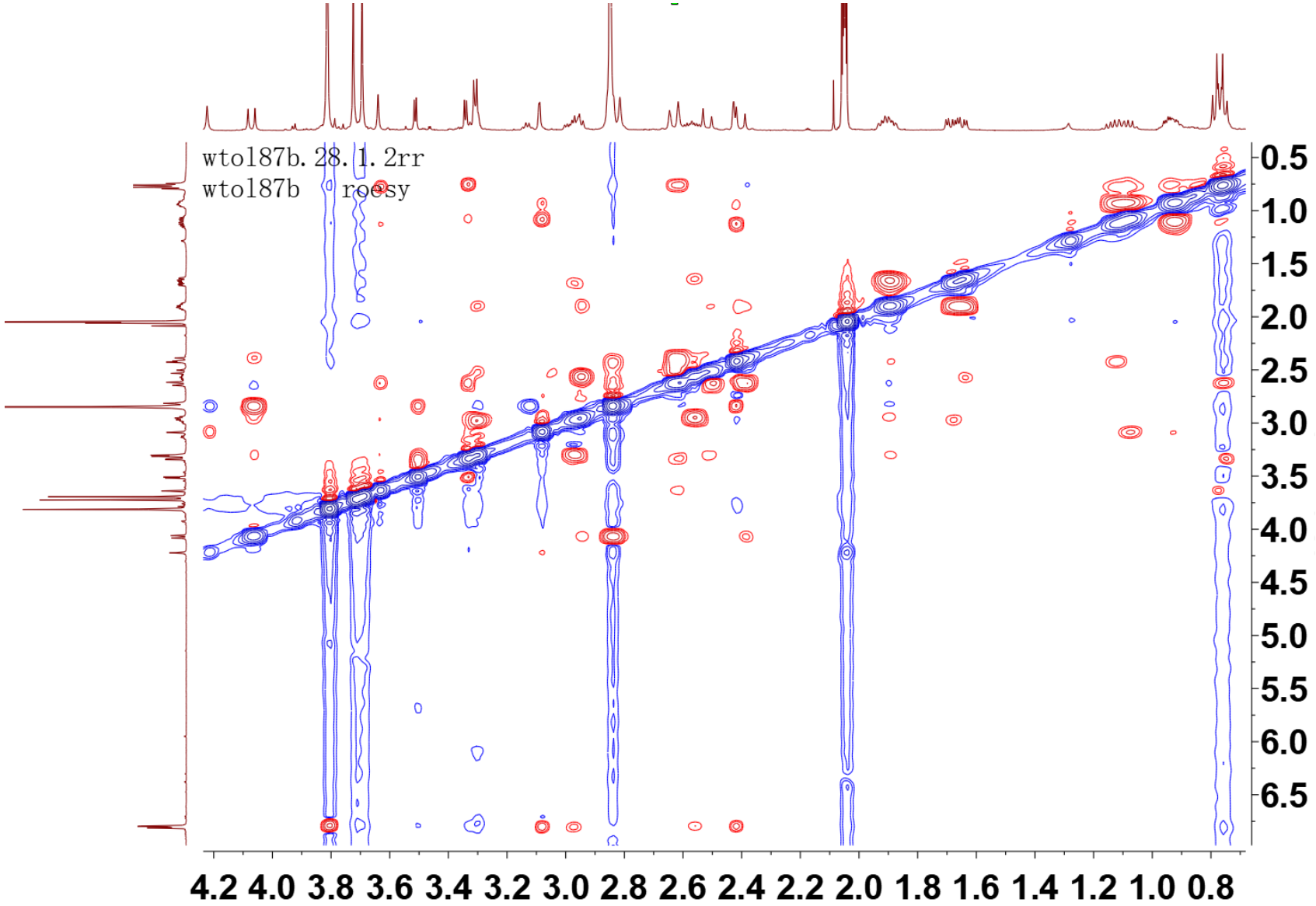


Figure S23 ROESY spectrum of compound **4** in acetone-d_6

Formula Predictor Report - wtol-87b.lcd

Data File: E:\DATA\2018\0104\wtol-87b.lcd

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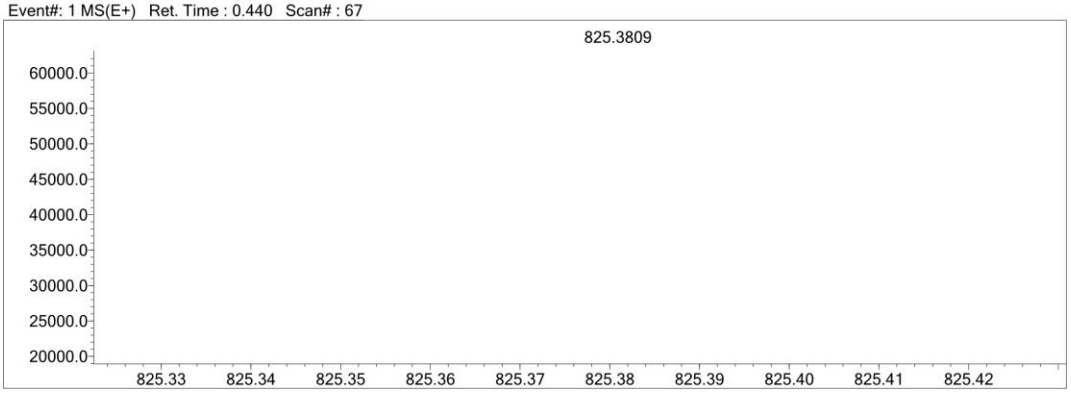
H	1	0	100	O	2	0	50	Cl	1	0	0	H
C	4	0	50	F	1	0	0	Br	1	0	0	
N	3	0	10	S	2	0	0	I	3	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

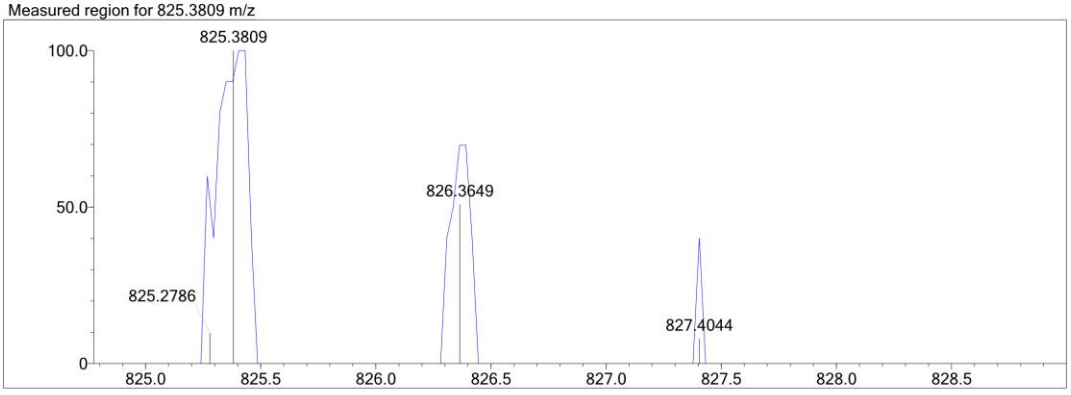
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

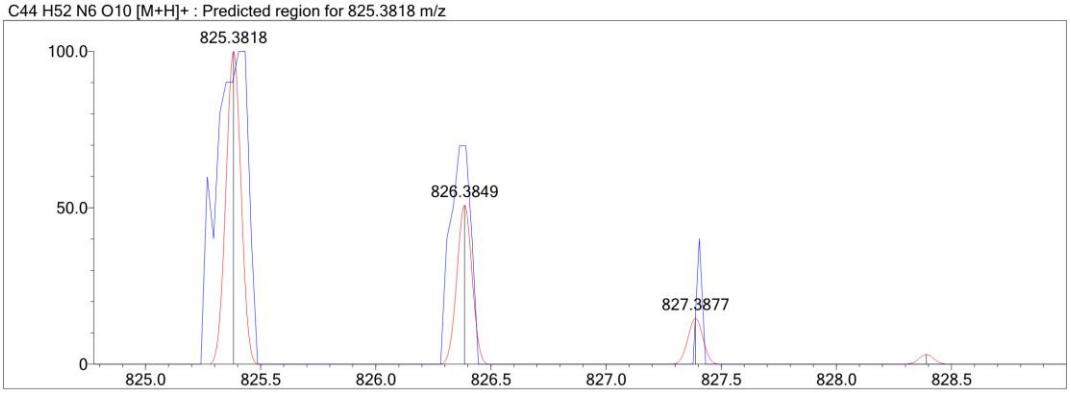
Event#: 1 MS(E+) Ret. Time : 0.440 Scan# : 67



Measured region for 825.3809 m/z



C44 H52 N6 O10 [M+H]+ : Predicted region for 825.3818 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H52 N6 O10	[M+H]+	825.3809	825.3818	-0.9	-1.09	22.0

Figure S24 HRESIMS spectrum of compound **4**

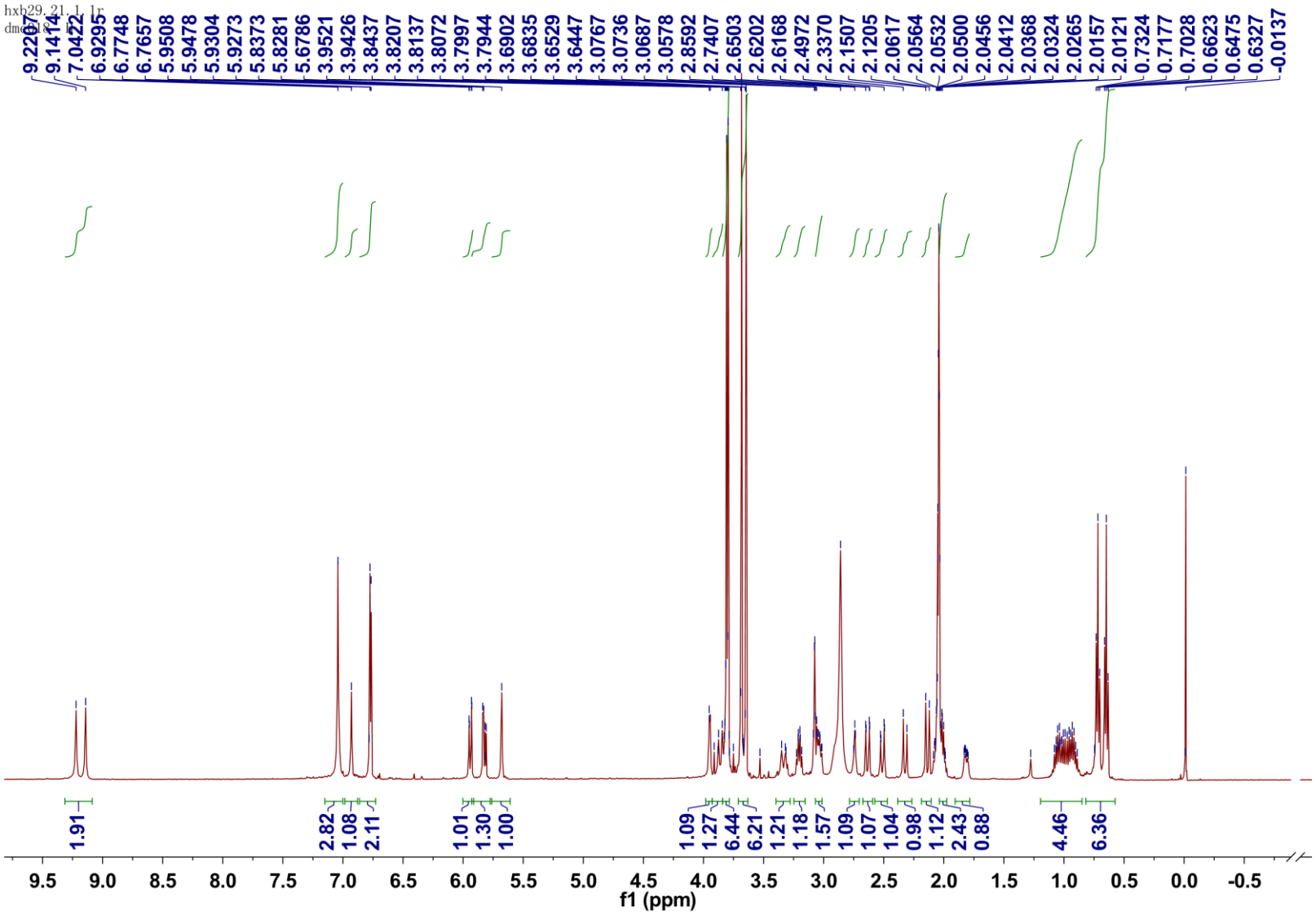


Figure S25 ^{1}H (500 MHz) NMR of compound **5** in acetone-d_6

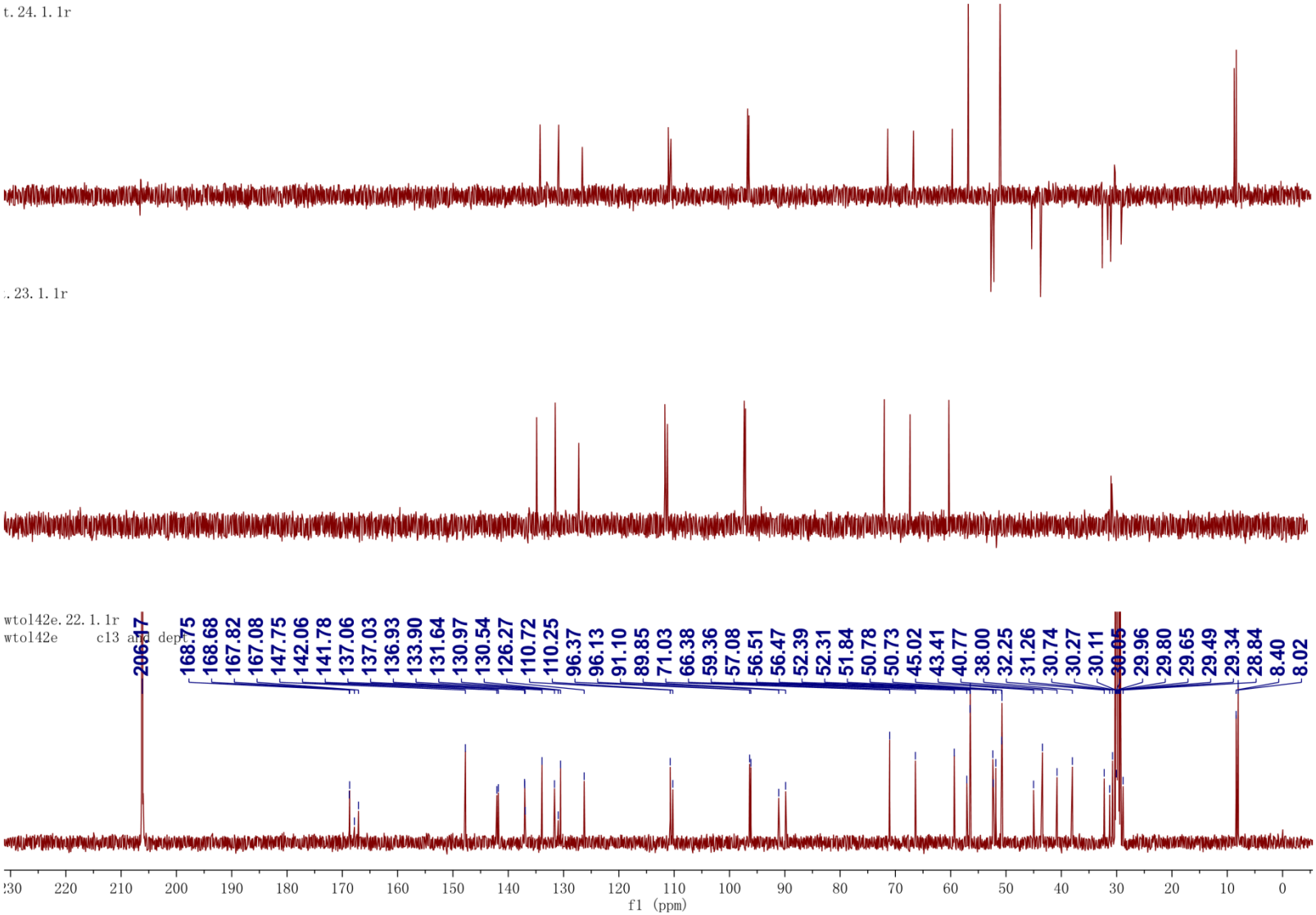


Figure S26 ^{13}C (125 MHz) NMR of compound **5** in acetone-d_6

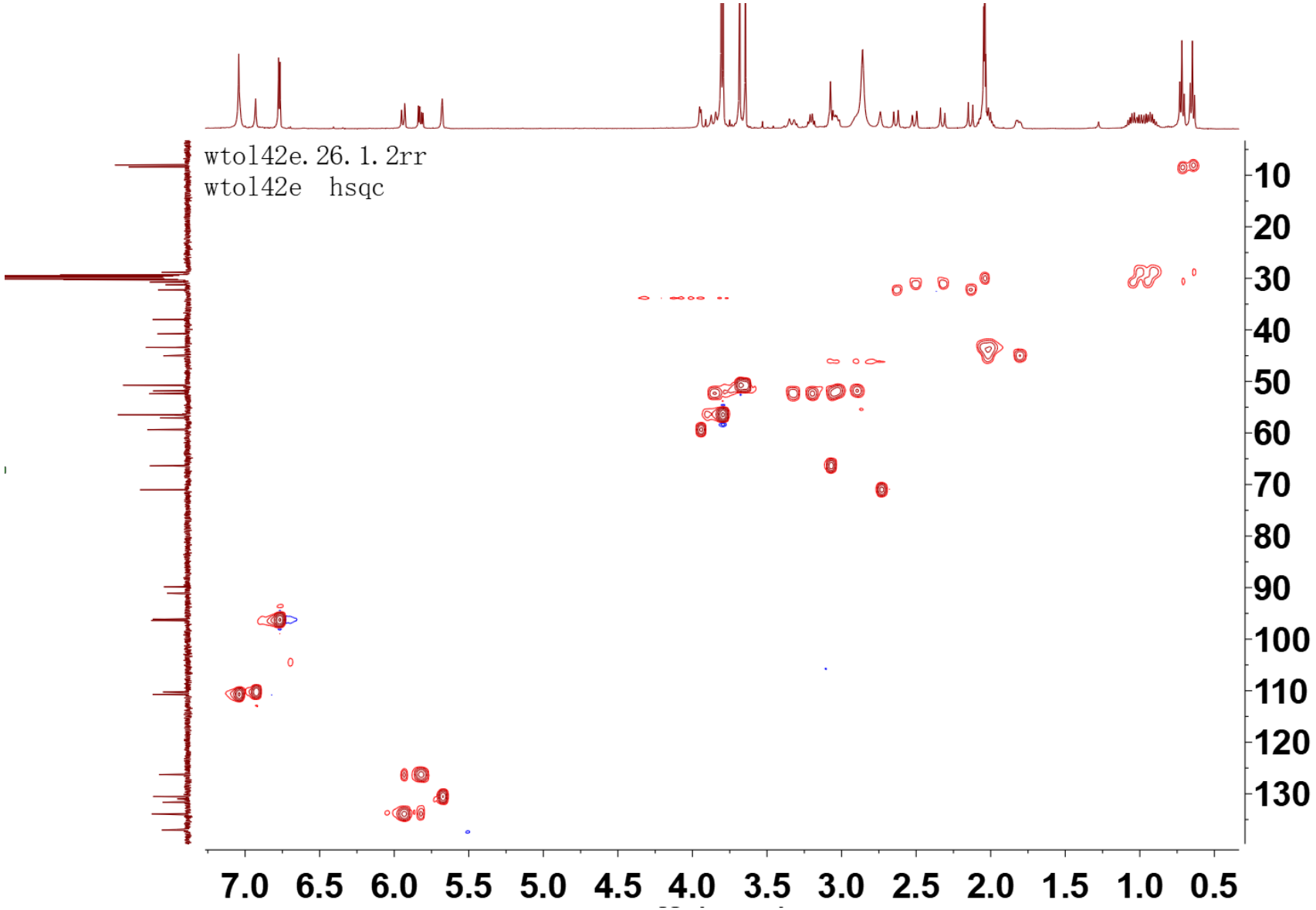


Figure S27 HSQC of compound **5** in acetone-d_6

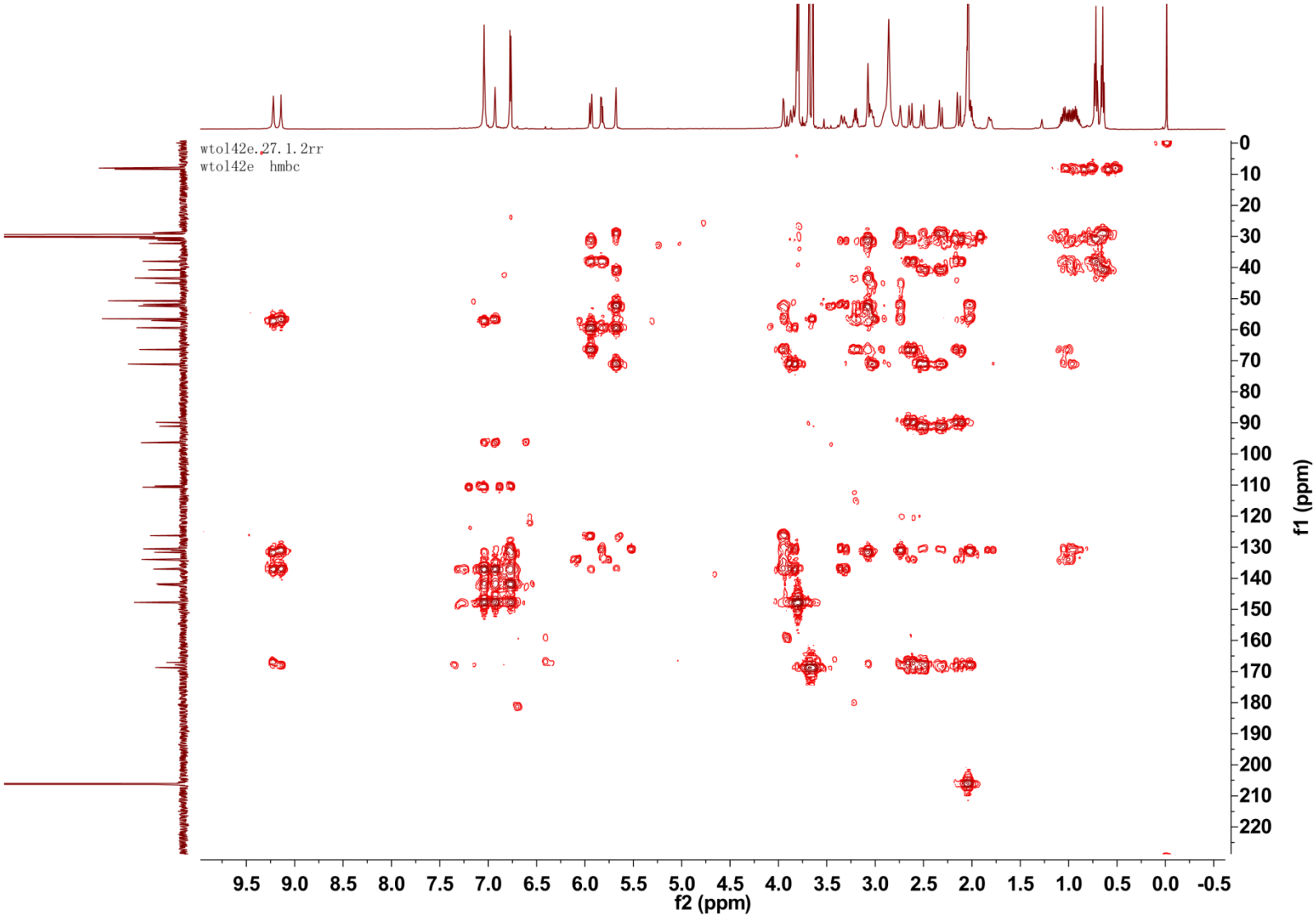


Figure S28 HMBC of compound **5** in acetone-d_6

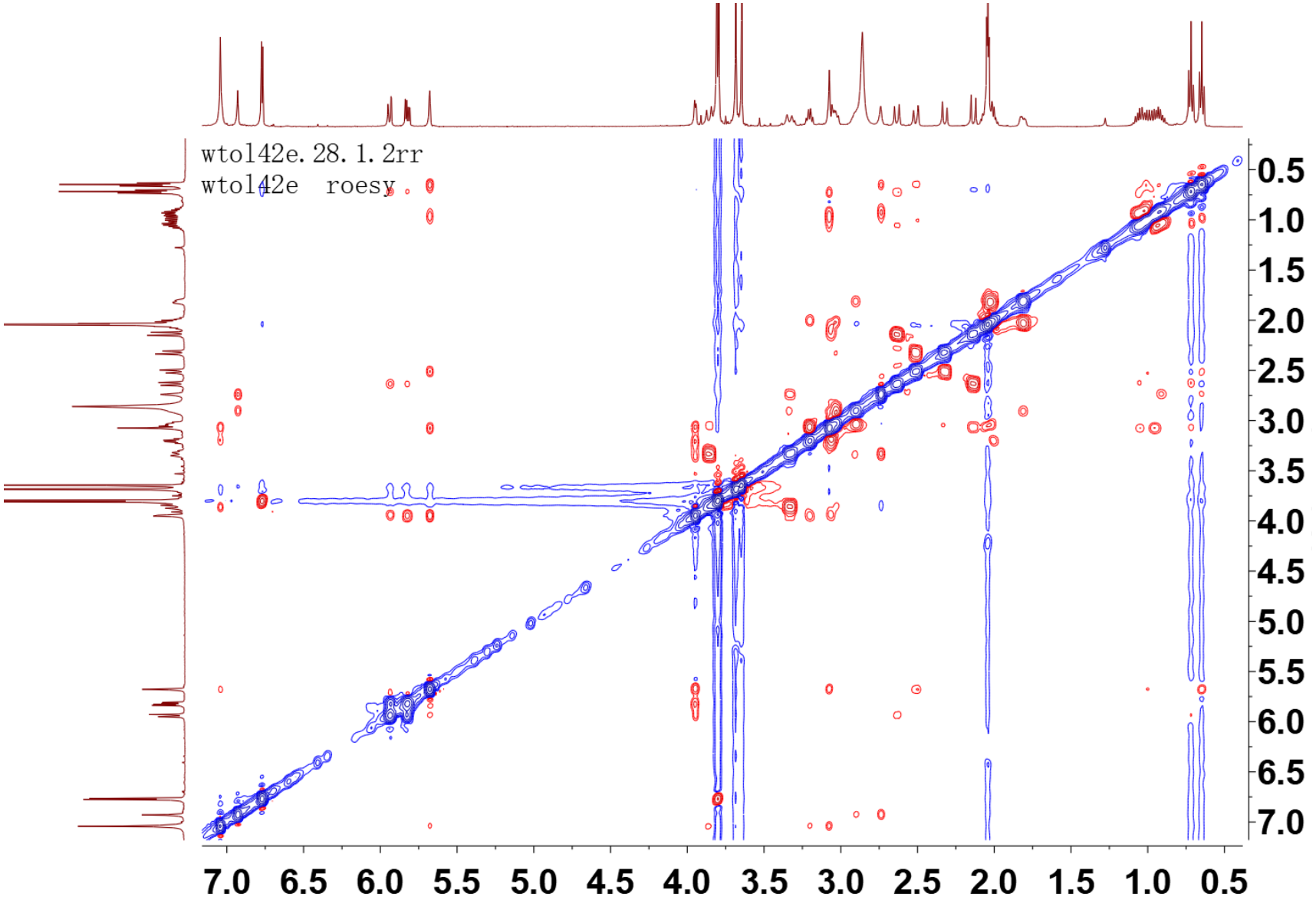


Figure S29 ROESY of compound **5** in acetone-d_6

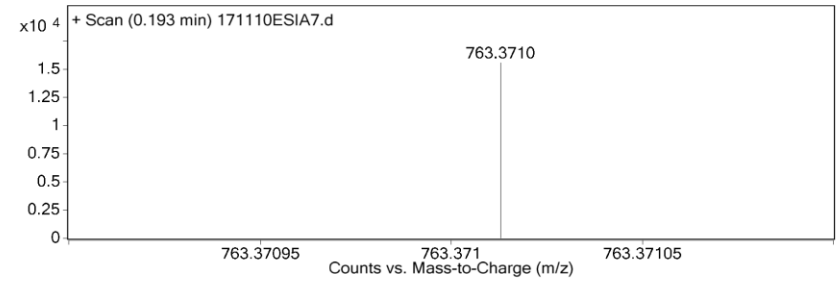
Qualitative Analysis Report

Data Filename	171110ESIA7.d	**Sample Name**	wtol-42e
Sample Type	Sample	**Position**	
Instrument Name	Agilent G6230 TOF MS	**User Name**	KIB
Acq Method	ESI.m	**Acquired Time**	11/10/2017 11:13:56 AM
IRM Calibration Status	Success	**DA Method**	ESI.m
Comment			

Sample Group	**Info.**
Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.05.01 (B5125.2)

User Spectra

Fragmentor Voltage	Collision Energy	Ionization Mode
200	0	ESI



Peak List

m/z	z	Abund	Formula	Ion
107.0607	1	82297.81		
108.0668	1	16606.79		
121.0509	1	48017.95		
123.092	1	310394.44		
124.0945	1	17780.07		
333.0384	1	6732.26		
343.1513	1	6297.69		
368.4244	1	7685.82		
763.371	1	15484.27	C44 H51 N4 O8	M+
922.0098	1	28324.18		

Formula Calculator Element Limits

Element	Min	Max
C	0	200
H	0	400
O	4	10
N	4	4

Formula Calculator Results

Formula	CalculatedMass	Mz	Diff.(mDa)	Diff. (ppm)	DBE
C44 H51 N4 O8	763.3707	763.3710	-0.3	0.4	21.5

--- End Of Report ---

Figure S30 HRESIMS spectrum of compound **5**

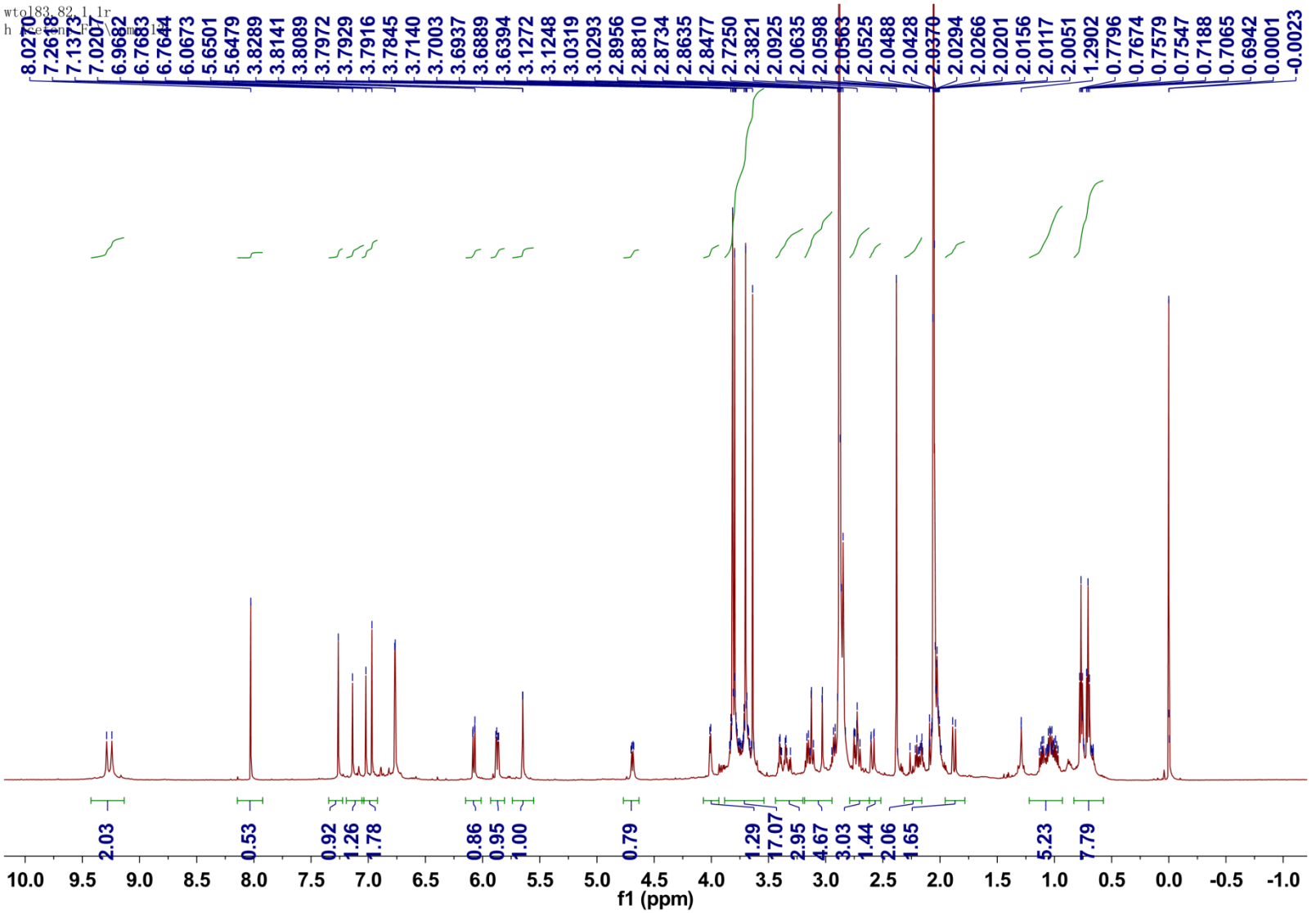


Figure S31 ^{1}H (600 MHz) NMR spectrum of compound **6** in acetone-d_6

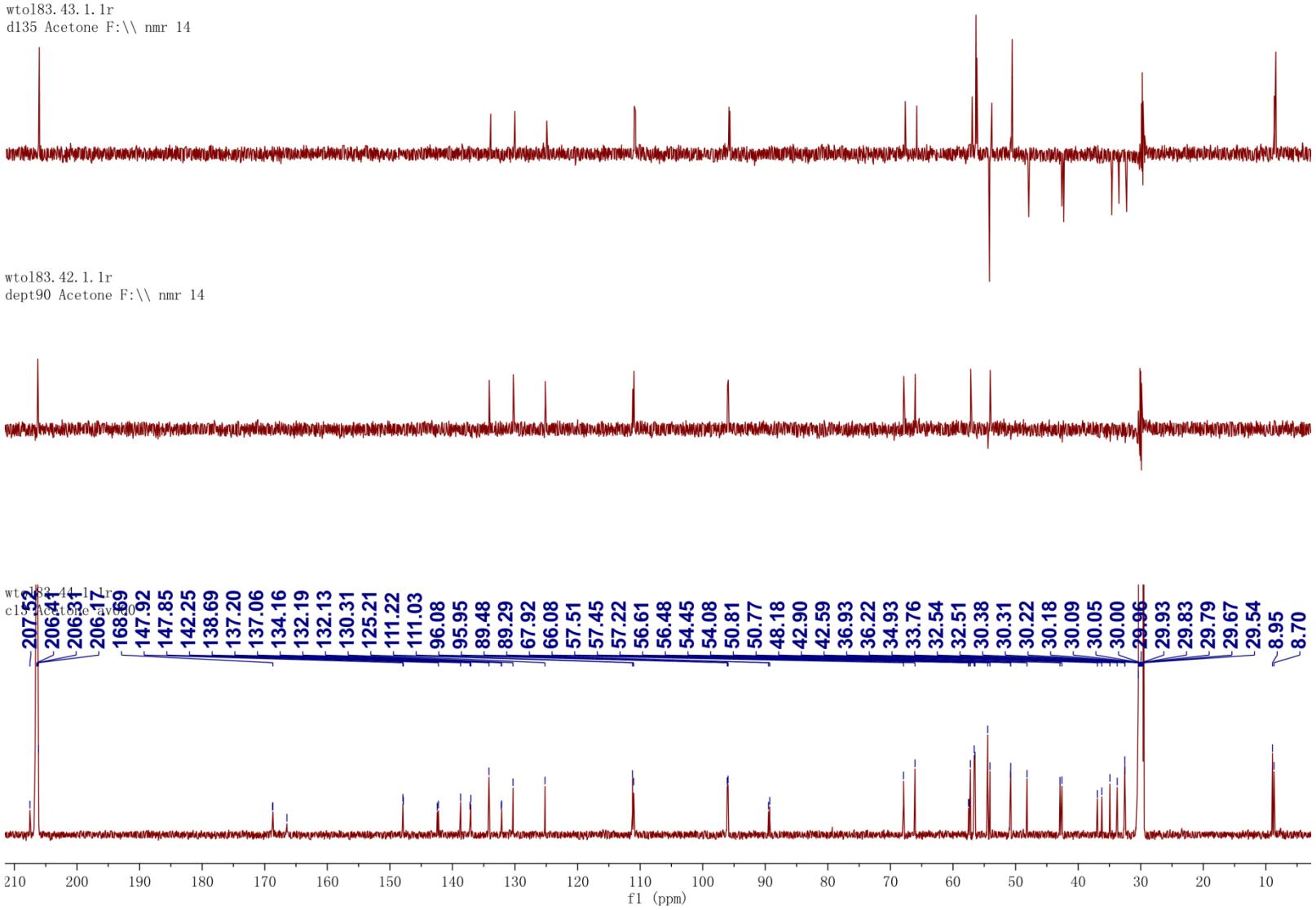


Figure S32 ^{13}C (150 MHz) NMR spectrum of compound **6** in acetone-d_6

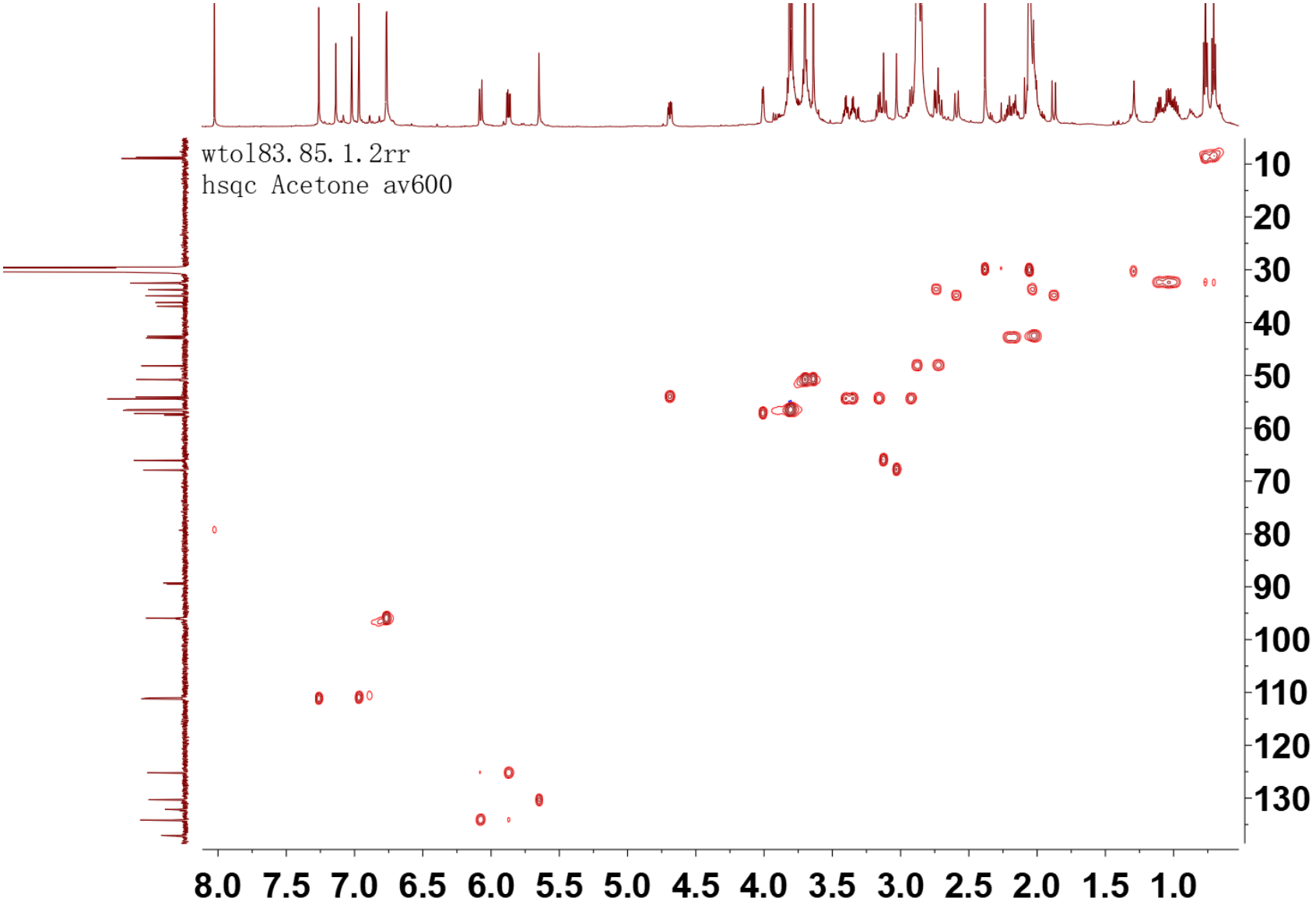


Figure S33 HSQC spectrum of compound **6** in acetone-d_6

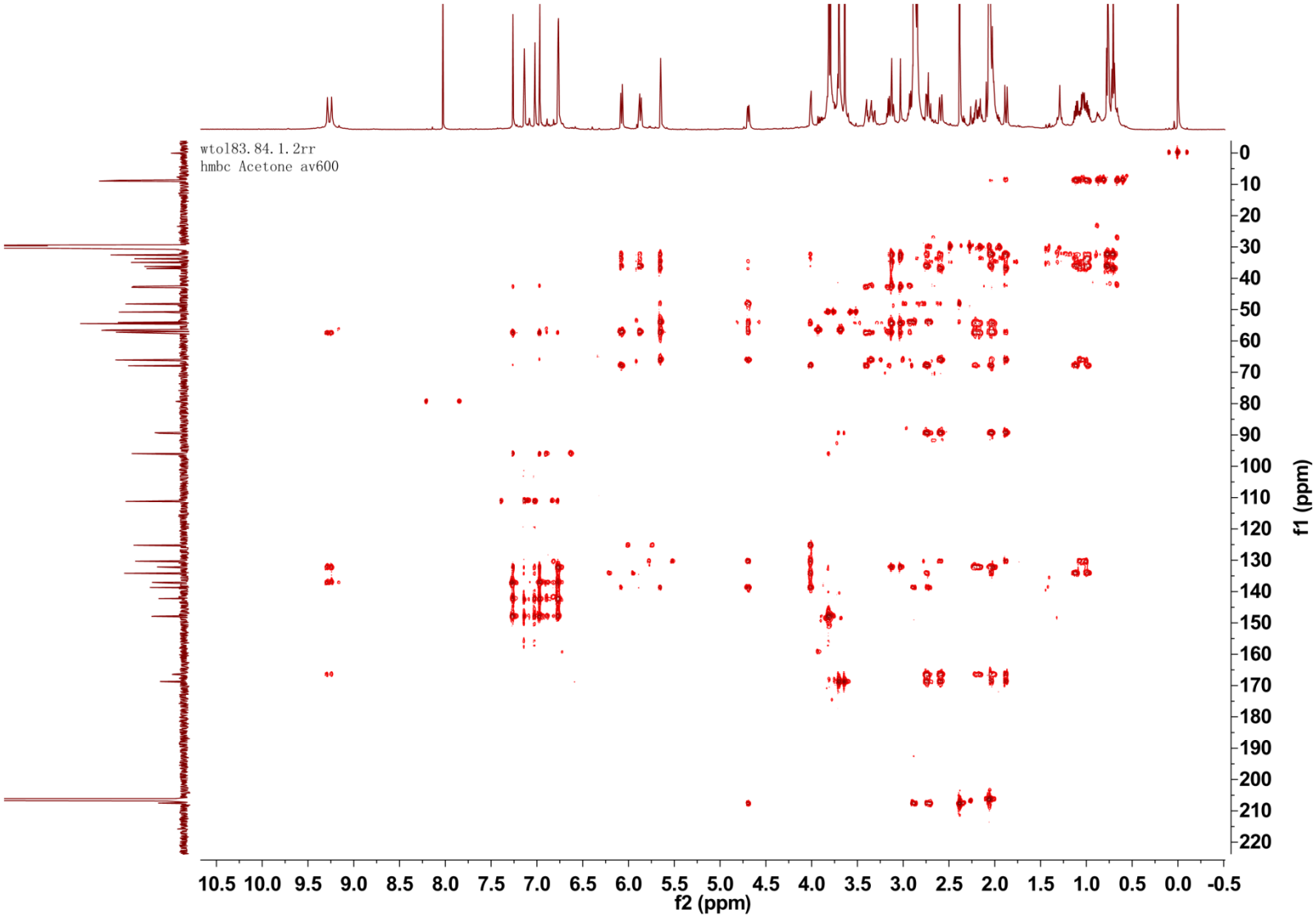


Figure S34 HMBC spectrum of compound **6** in acetone-d_6

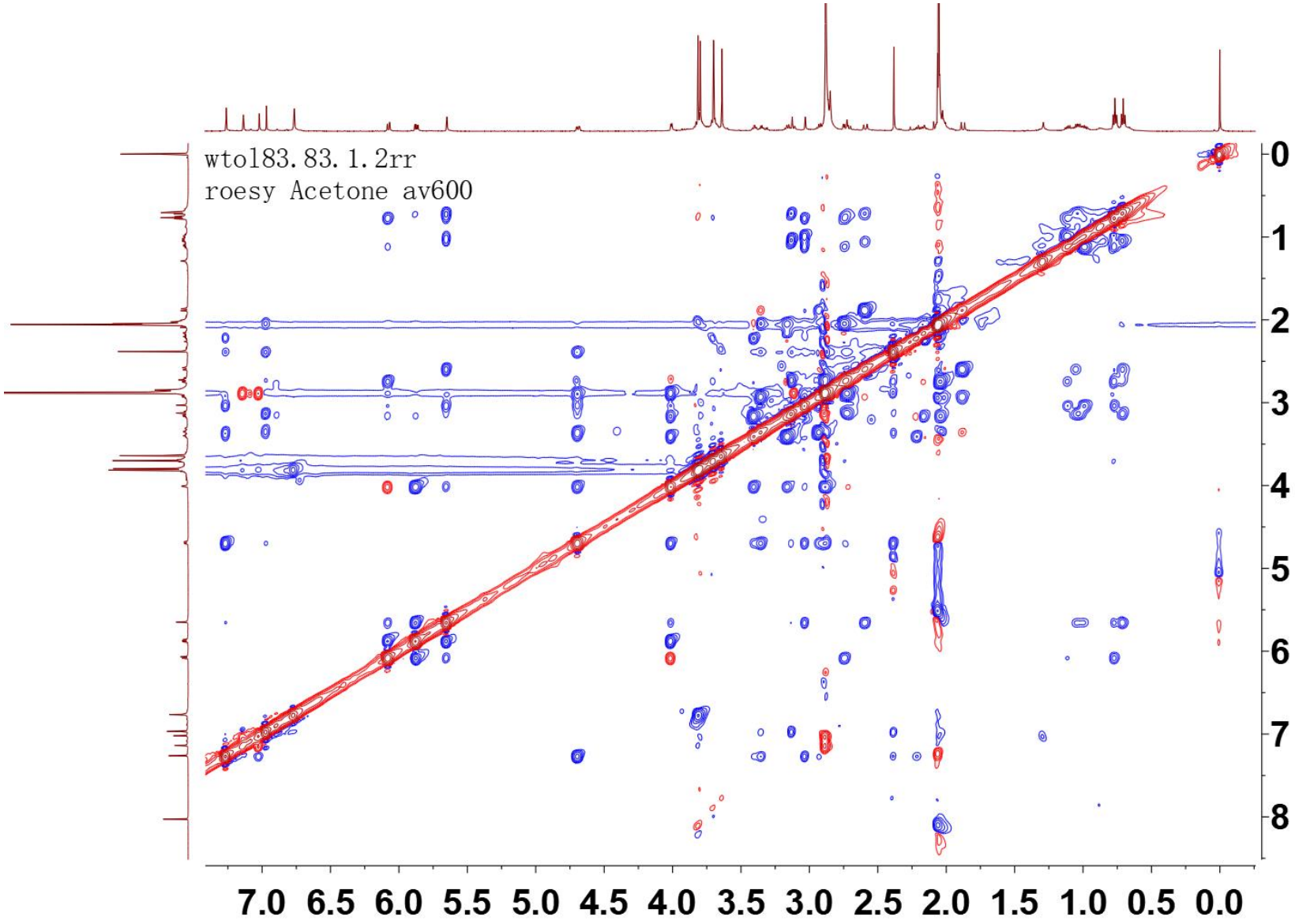


Figure S35 ROESY spectrum of compound **6** in acetone-d_6

Data File: E:\DATA\2018\0103\wtol-83.lcd

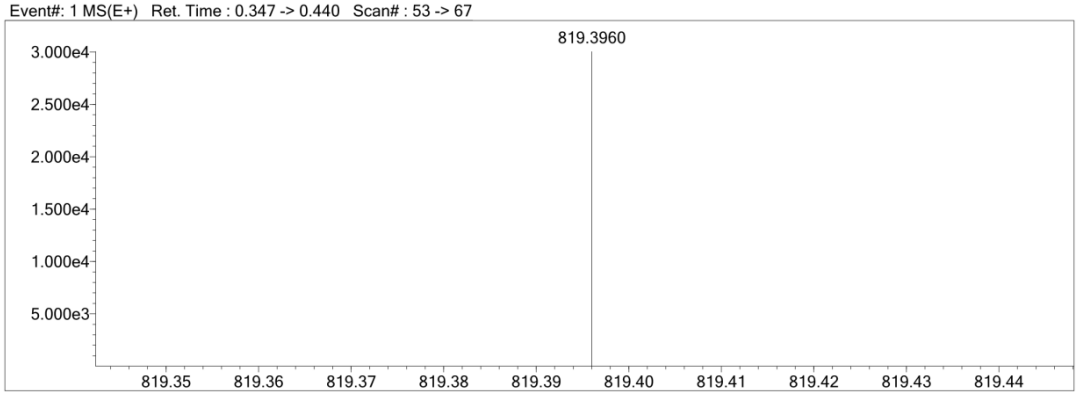
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	20	100	O	2	1	20	Si	4	0	0	Br	1	0	0	H
C	4	20	50	F	1	0	0	S	2	0	0	I	3	0	0	
N	3	1	10	Na	1	0	0	Cl	1	0	0					

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

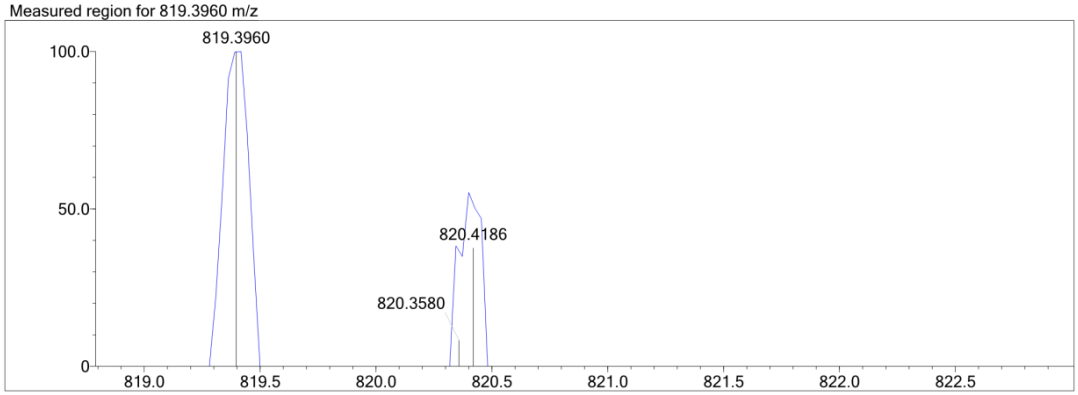
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

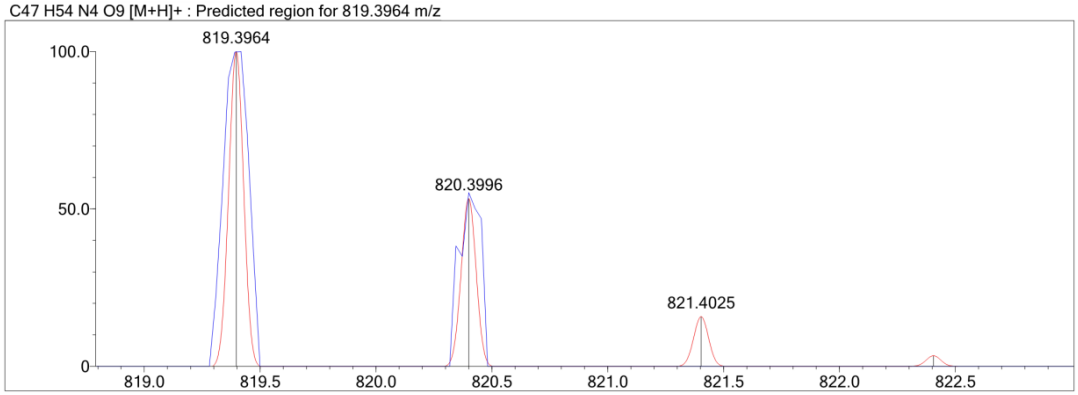
Event#: 1 MS(E+) Ret. Time : 0.347 -> 0.440 Scan# : 53 -> 67



Measured region for 819.3960 m/z



C47 H54 N4 O9 [M+H]+ : Predicted region for 819.3964 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C47 H54 N4 O9	[M+H]+	819.3960	819.3964	-0.4	-0.49	23.0

Figure S36 HRESIMS spectrum of compound **6**

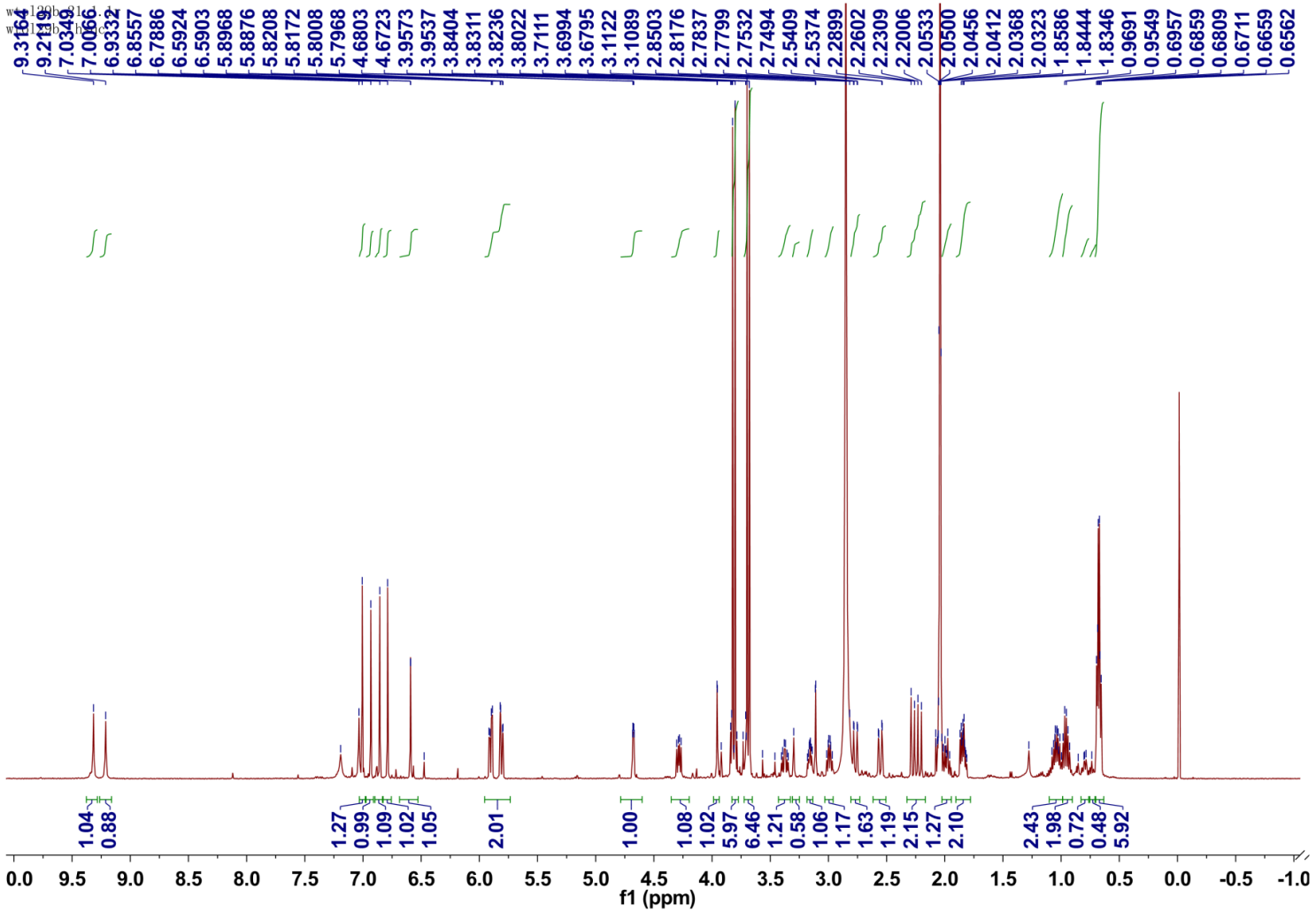


Figure S37 ^{1}H (500 MHz) NMR spectrum of compound **7** in acetone-d_6

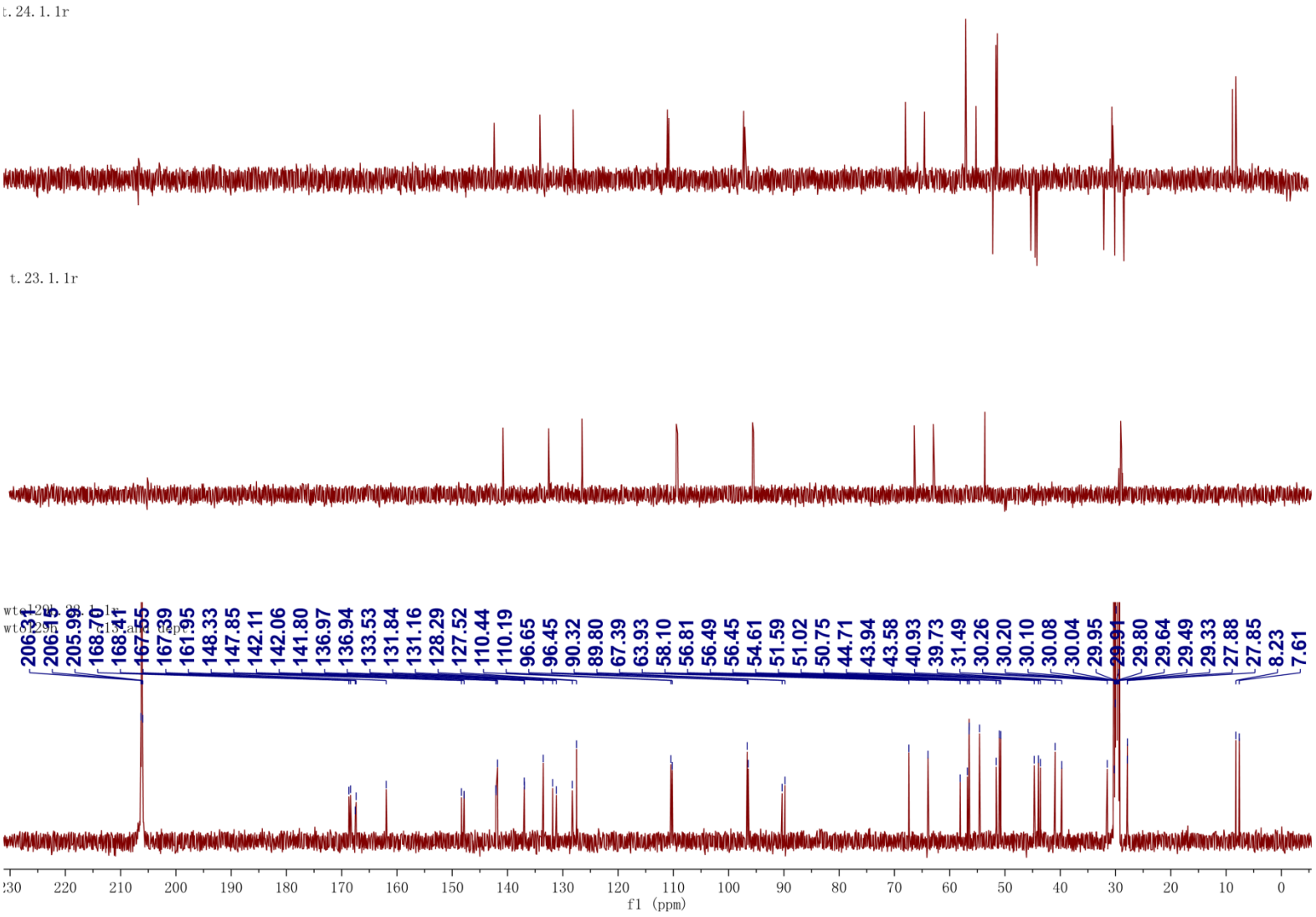


Figure S38 ^{13}C (125 MHz) NMR spectrum of compound **7** in CD_3ODCD_3

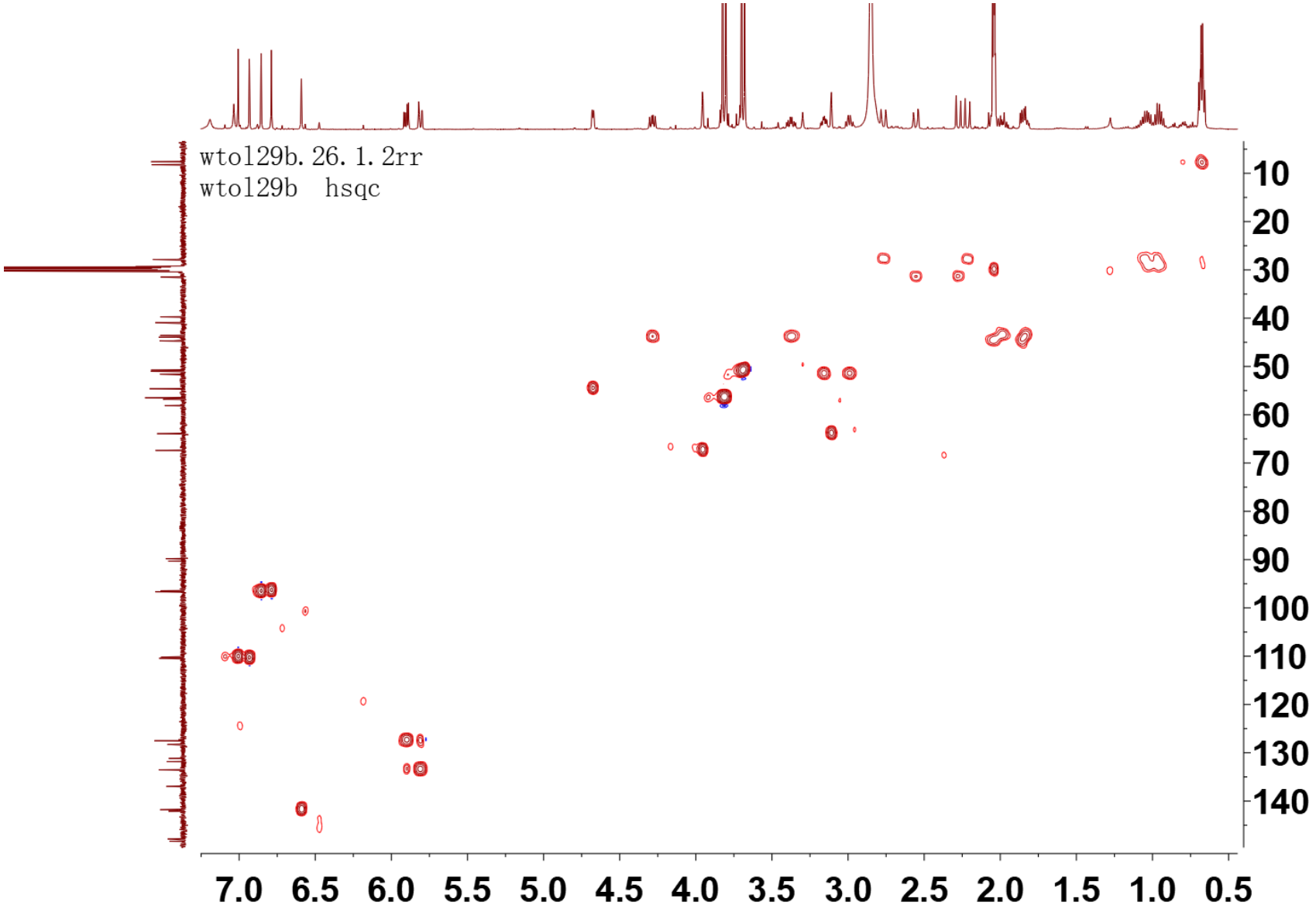


Figure S39 HSQC spectrum of compound **7** in acetone-d_6

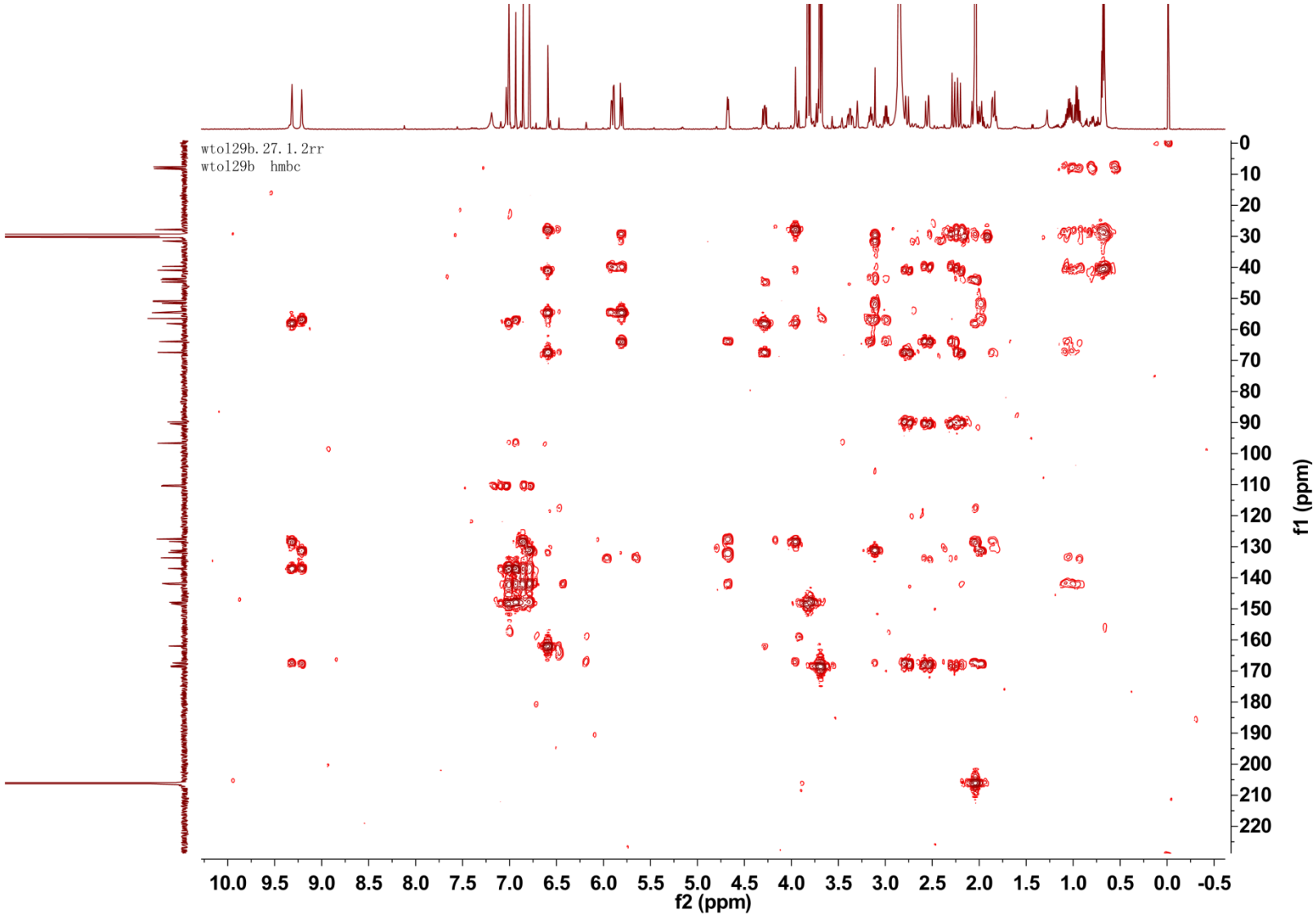


Figure S40 HMBC specrum of **7** in acetone-d_6

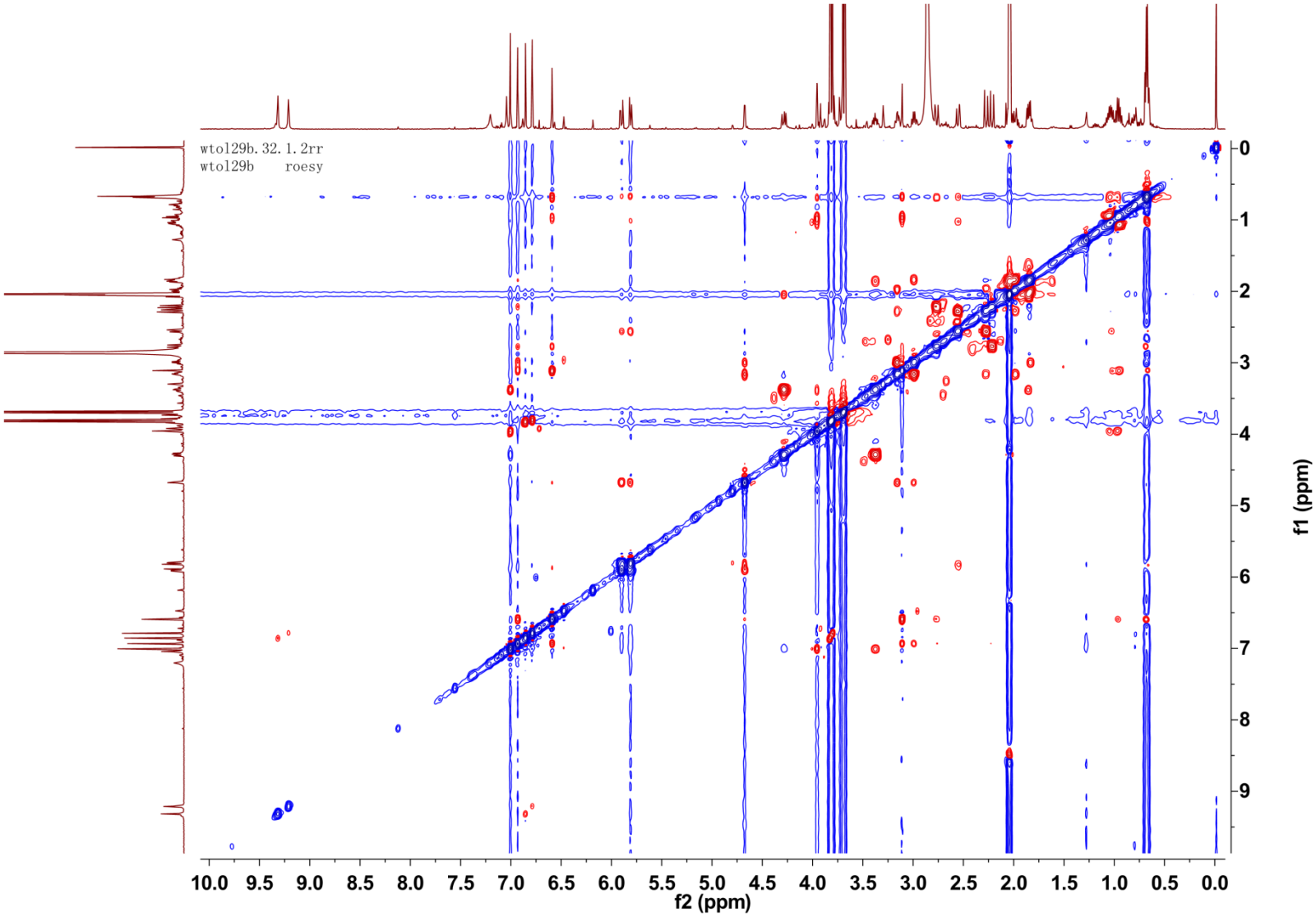


Figure S41 ROESY spectrum of **5** in acetone-d_6

Formula Predictor Report - wtol-29b.lcd

Data File: E:\DATA\2017\0927\wtol-29b.lcd

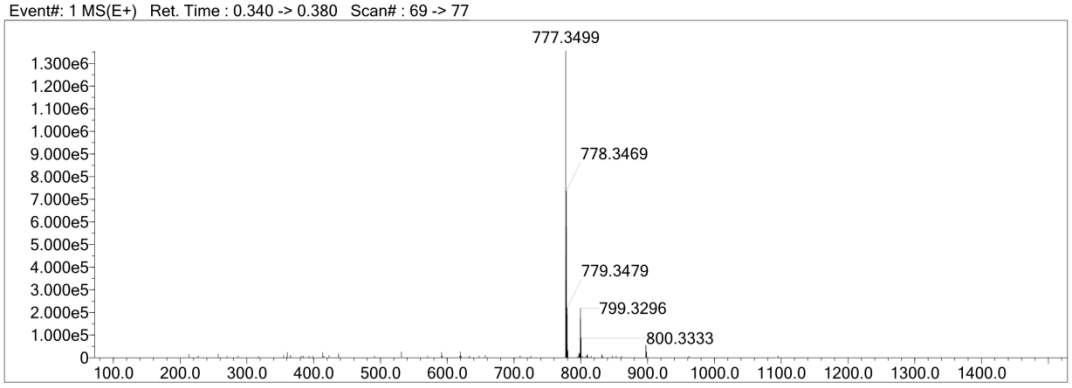
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	40	100	N	3	0	50	Mg	2	0	0	Fe	2	0	0	H
2H	1	0	0	O	2	0	50	P	3	0	0	Br	1	0	0	
B	3	0	0	F	1	0	0	S	2	0	0	I	3	0	0	
C	4	40	100	Na	1	0	0	Cl	1	0	0	Pt	2	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

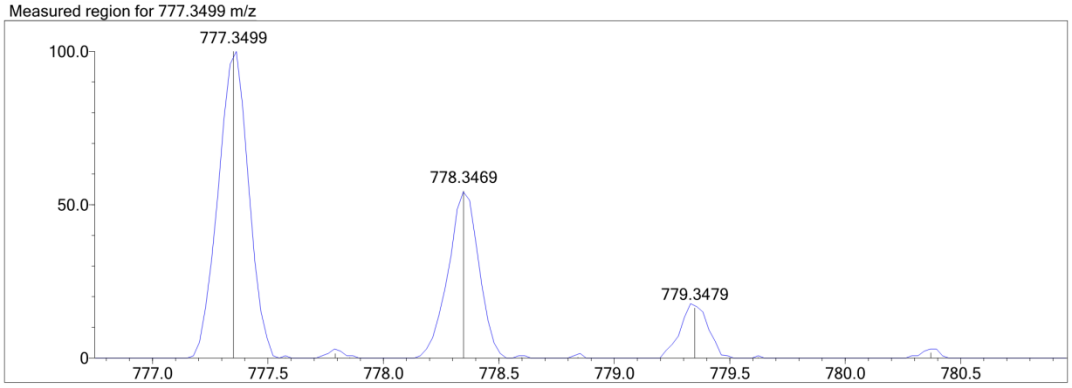
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

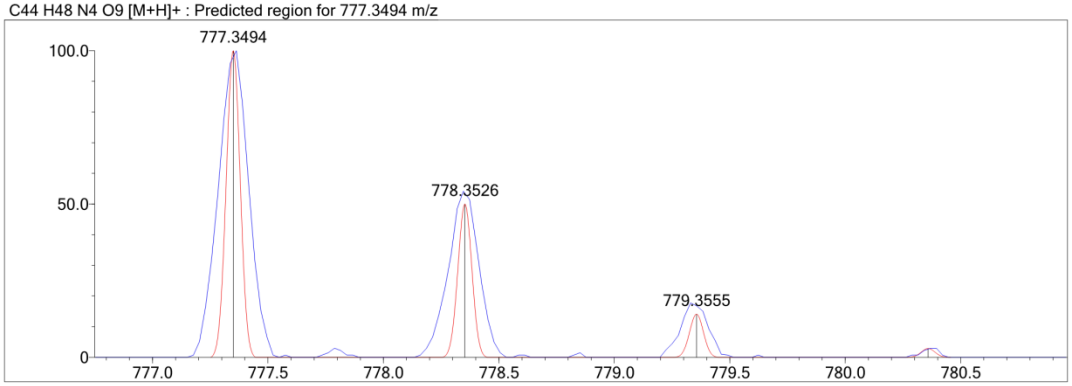
Event#: 1 MS(E+) Ret. Time : 0.340 -> 0.380 Scan# : 69 -> 77



Measured region for 777.3499 m/z



C44 H48 N4 O9 [M+H]+ : Predicted region for 777.3494 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H48 N4 O9	[M+H]+	777.3499	777.3494	0.5	0.64	23.0

Figure S42 HRESIMS spectrum of compound **7**

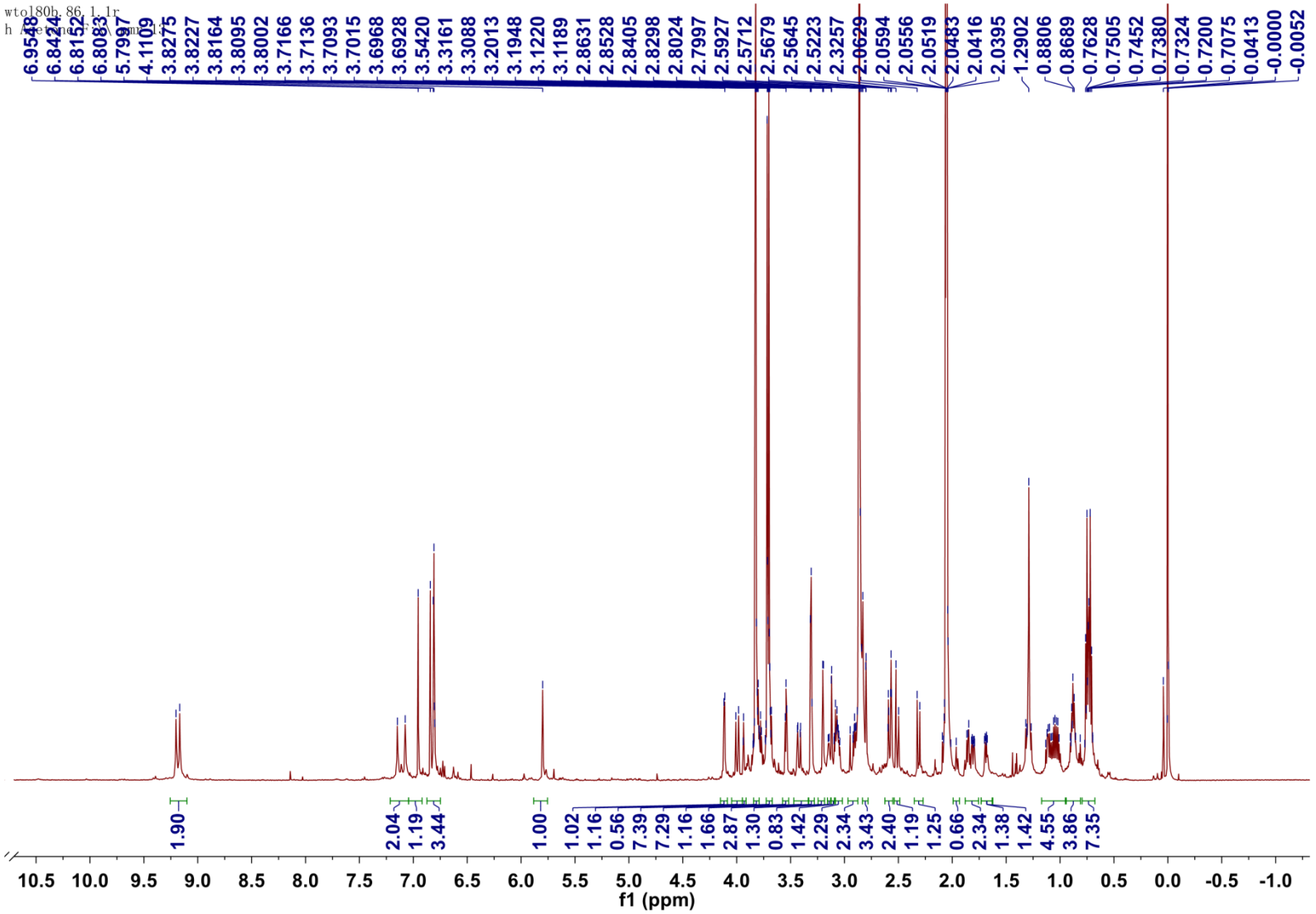


Figure S43 ^{1}H (600 MHz) NMR spectrum of compound **8** in acetone-d_6

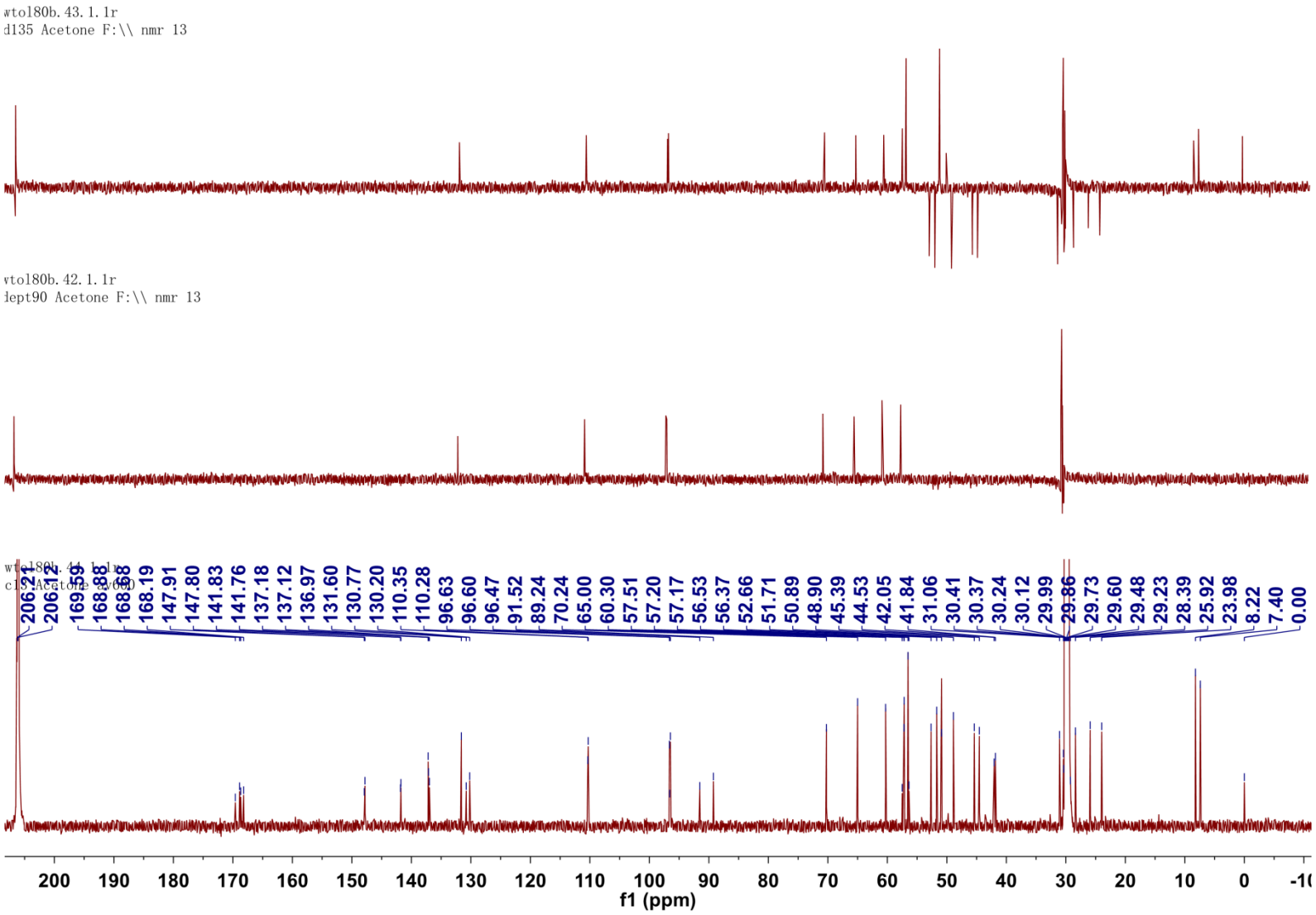


Figure S44 ^{13}C (150 MHz) NMR spectrum of compound **8** in acetone-d_6

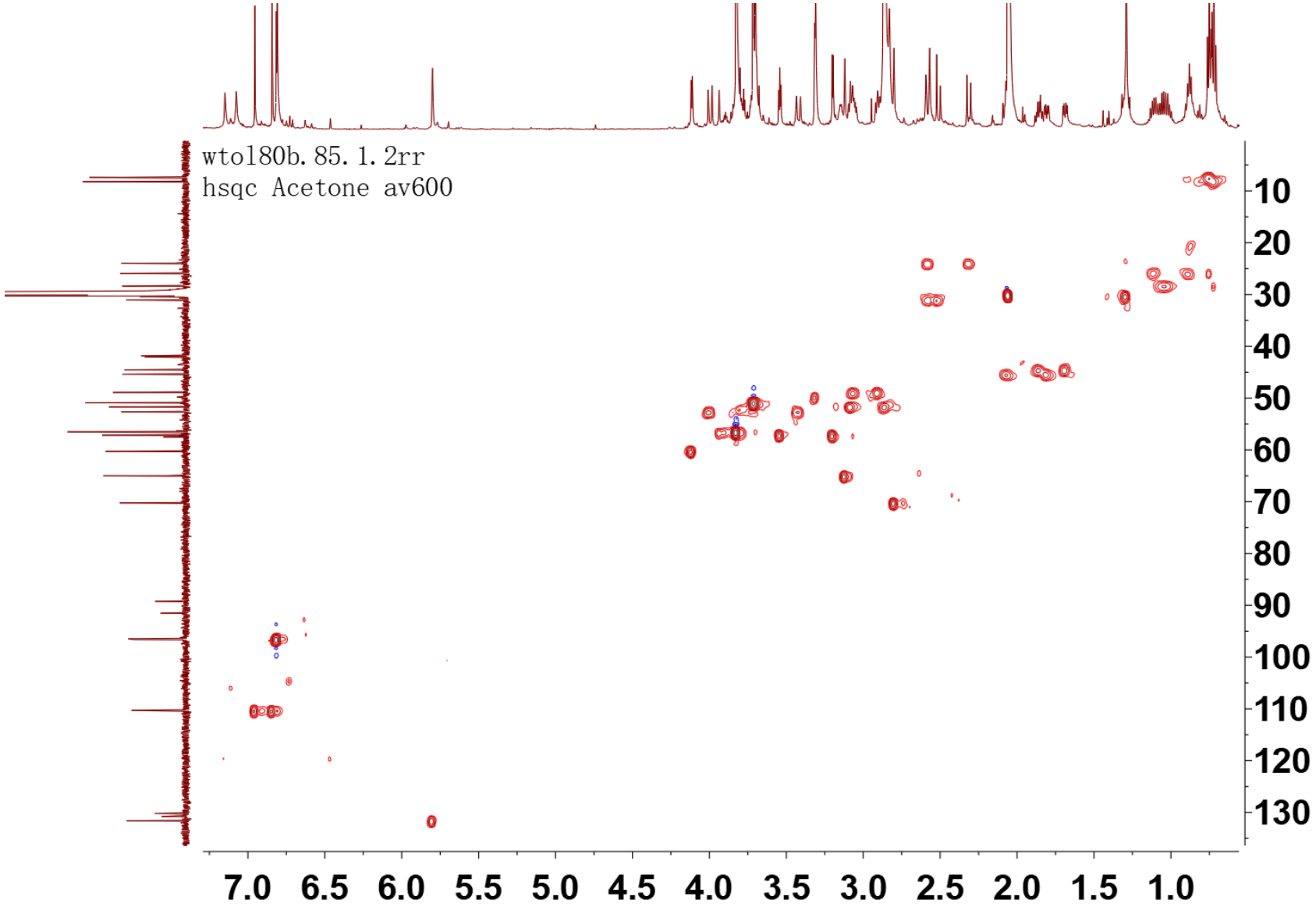


Figure S45 HSQC spectrum of compound **8** in acetone-d_6

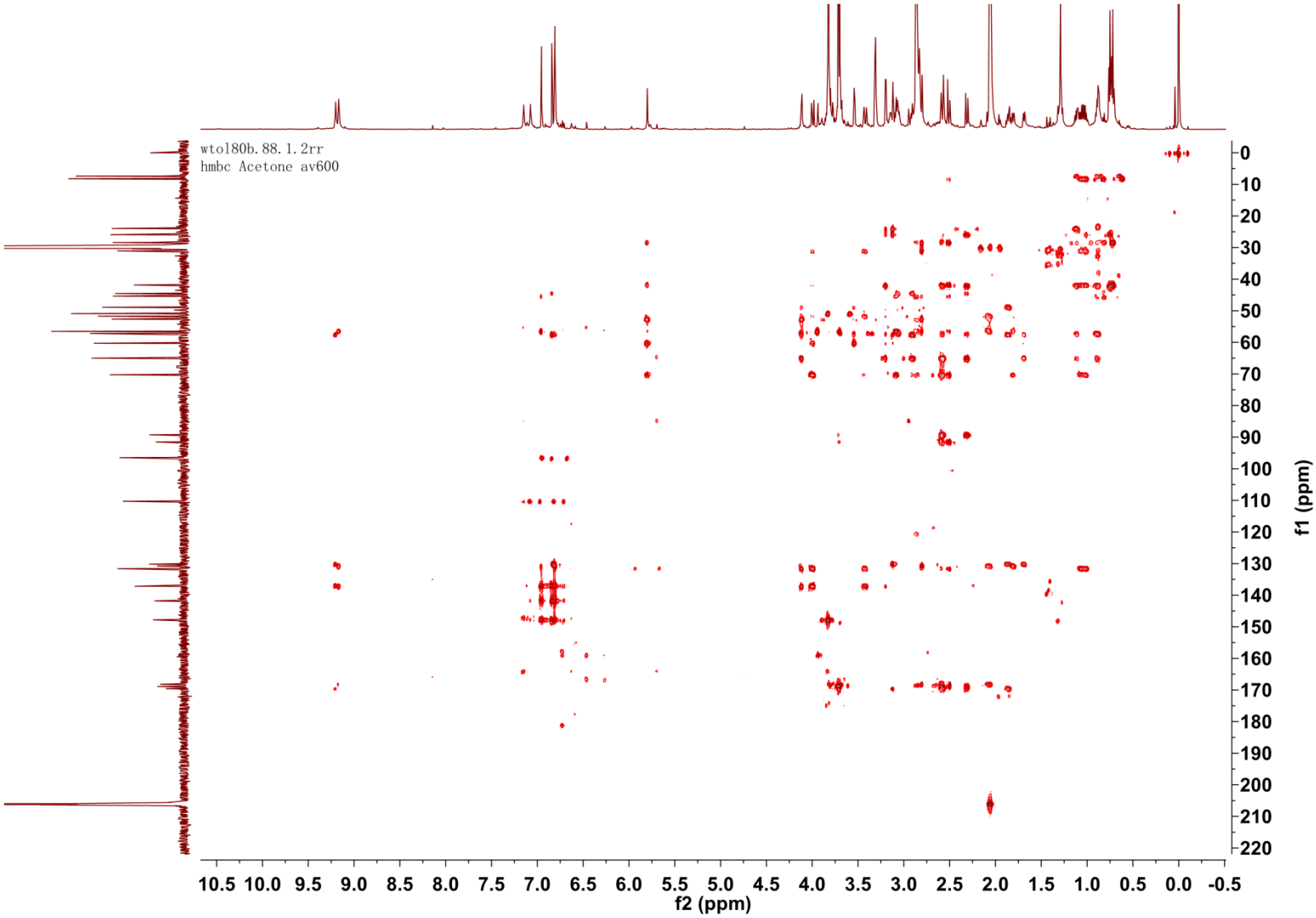


Figure S46 HMBC spectrum of compound **8** in acetone-d_6

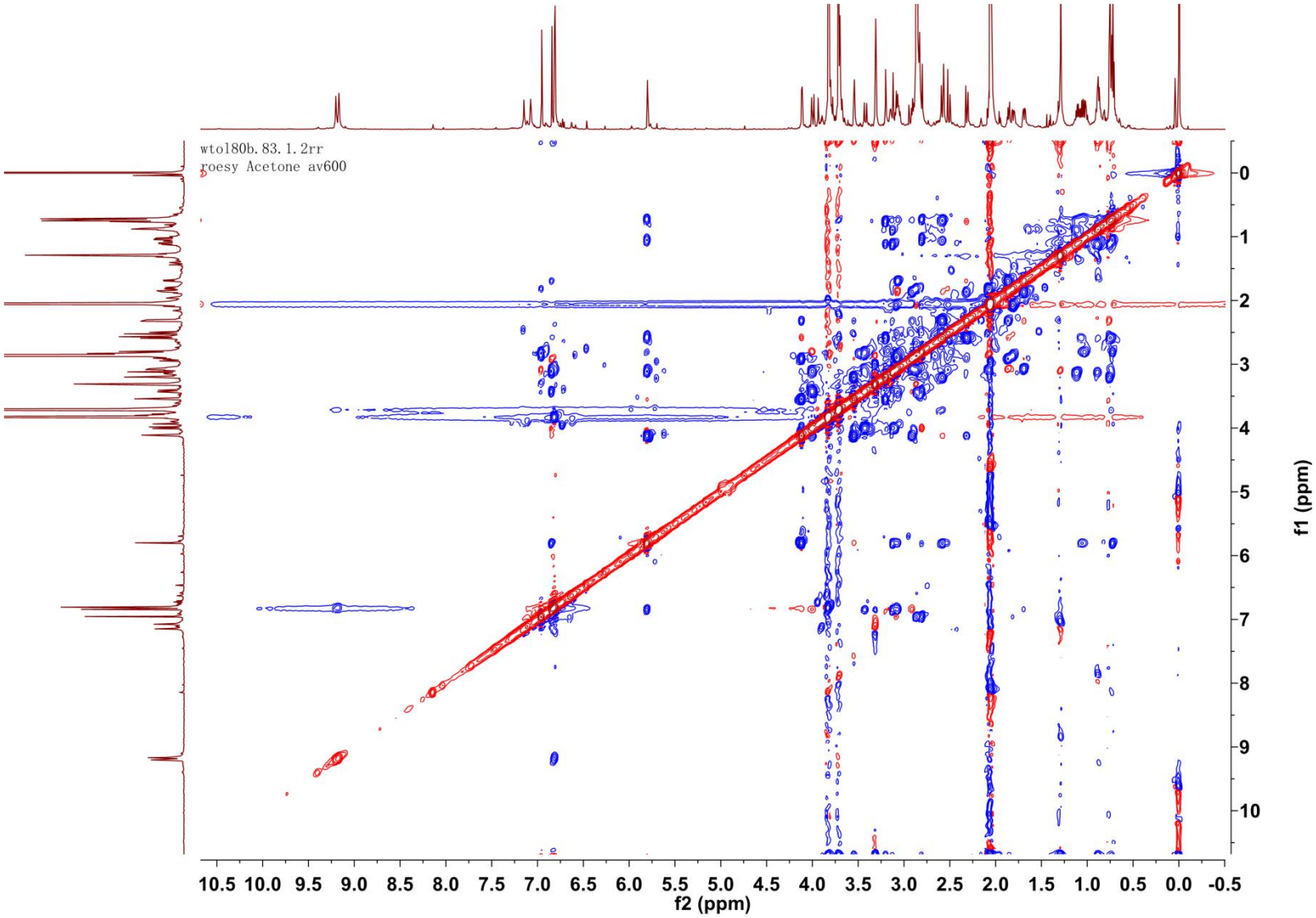


Figure S47 ROESY spectrum of compound **8** in acetone-d_6

Formula Predictor Report - wtol-80b.lcd

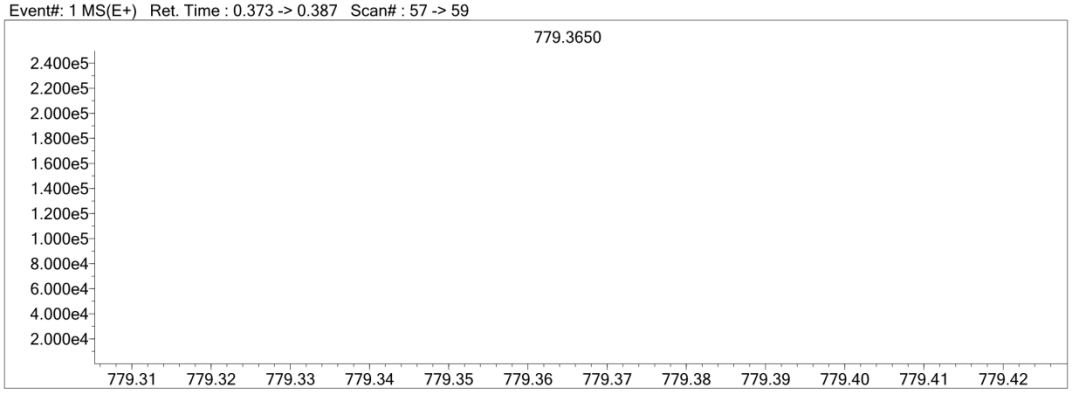
Page 1 of 1

Data File: E:\DATA\2017\1225\wtol-80b.lcd

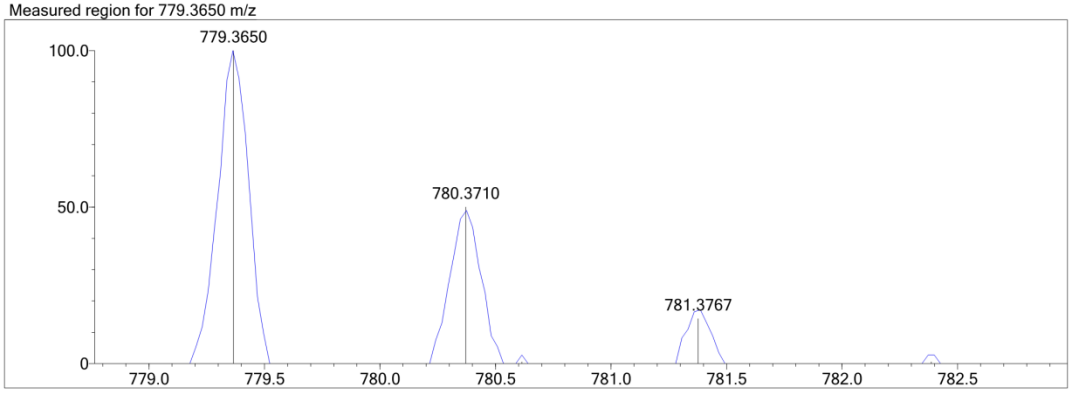
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	20	100	O	2	1	20	Si	4	0	0	Br	1	0	0	H
C	4	20	50	F	1	0	0	S	2	0	0	I	3	0	0	
N	3	1	10	Na	1	0	0	Cl	1	0	0					

Error Margin (ppm):	5	DBE Range:	-2.0 - 100.0	Electron Ions:	both
HC Ratio:	unlimited	Apply N Rule:	yes	Use MSn Info:	yes
Max Isotopes:	all	Isotope RI (%):	1.00	Isotope Res:	10000
MSn Iso RI (%):	75.00	MSn Logic Mode:	AND	Max Results:	10

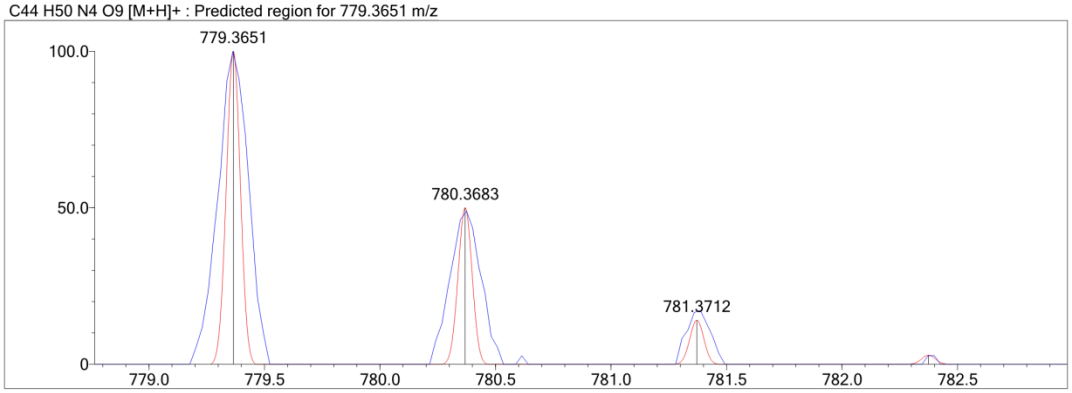
Event#: 1 MS(E+) Ret. Time : 0.373 -> 0.387 Scan# : 57 -> 59



Measured region for 779.3650 m/z



C44 H50 N4 O9 [M+H]+ : Predicted region for 779.3651 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H50 N4 O9	[M+H]+	779.3650	779.3651	-0.1	-0.13	22.0

Figure S48 HRESIMS spectrum of compound **8**

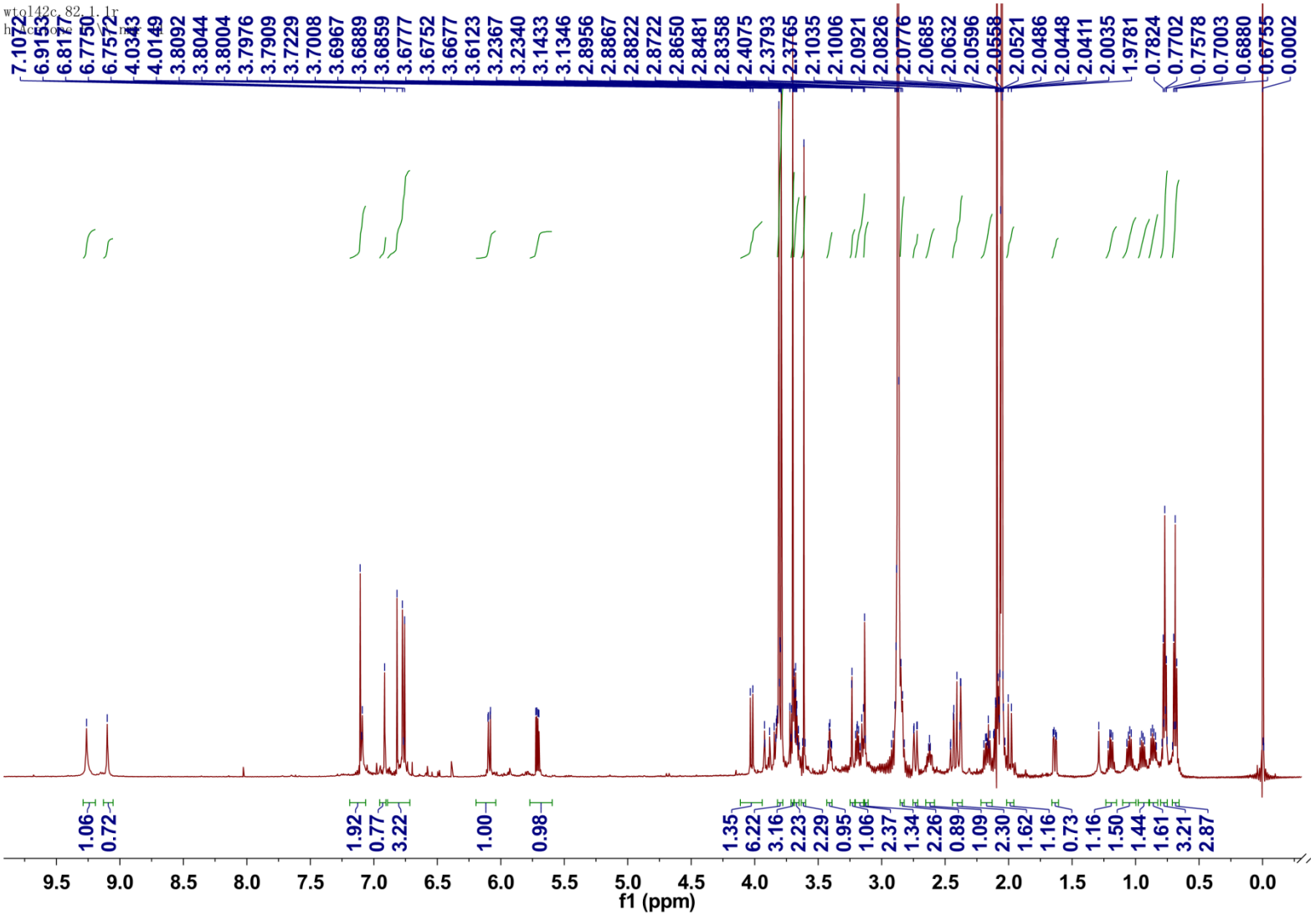


Figure S49 ^{1}H (600 MHz) NMR spectrum of compound **9** in acetone-d_6

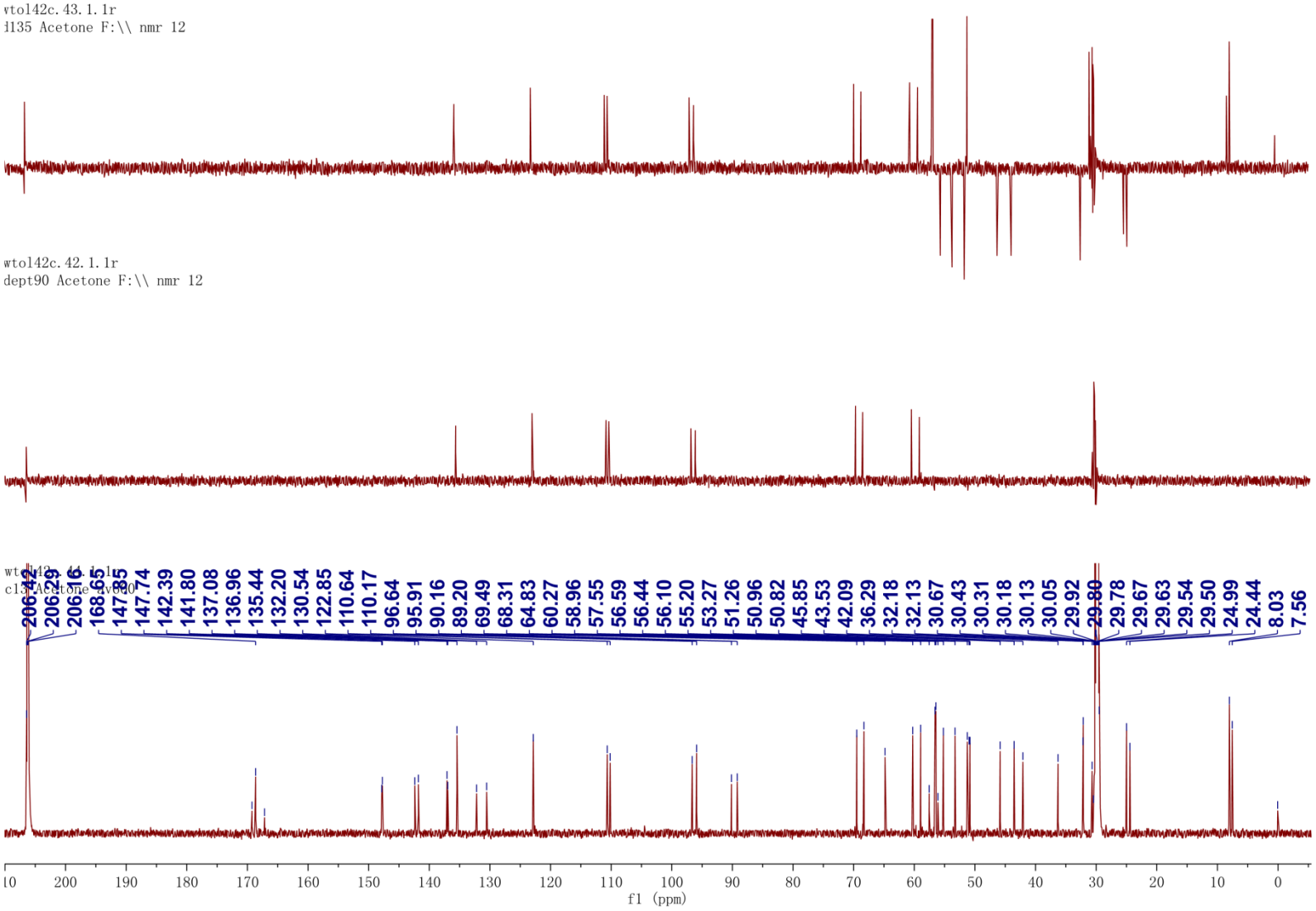


Figure S50 ^{13}C (150 MHz) NMR spectrum of compound **9** in acetone-d_6

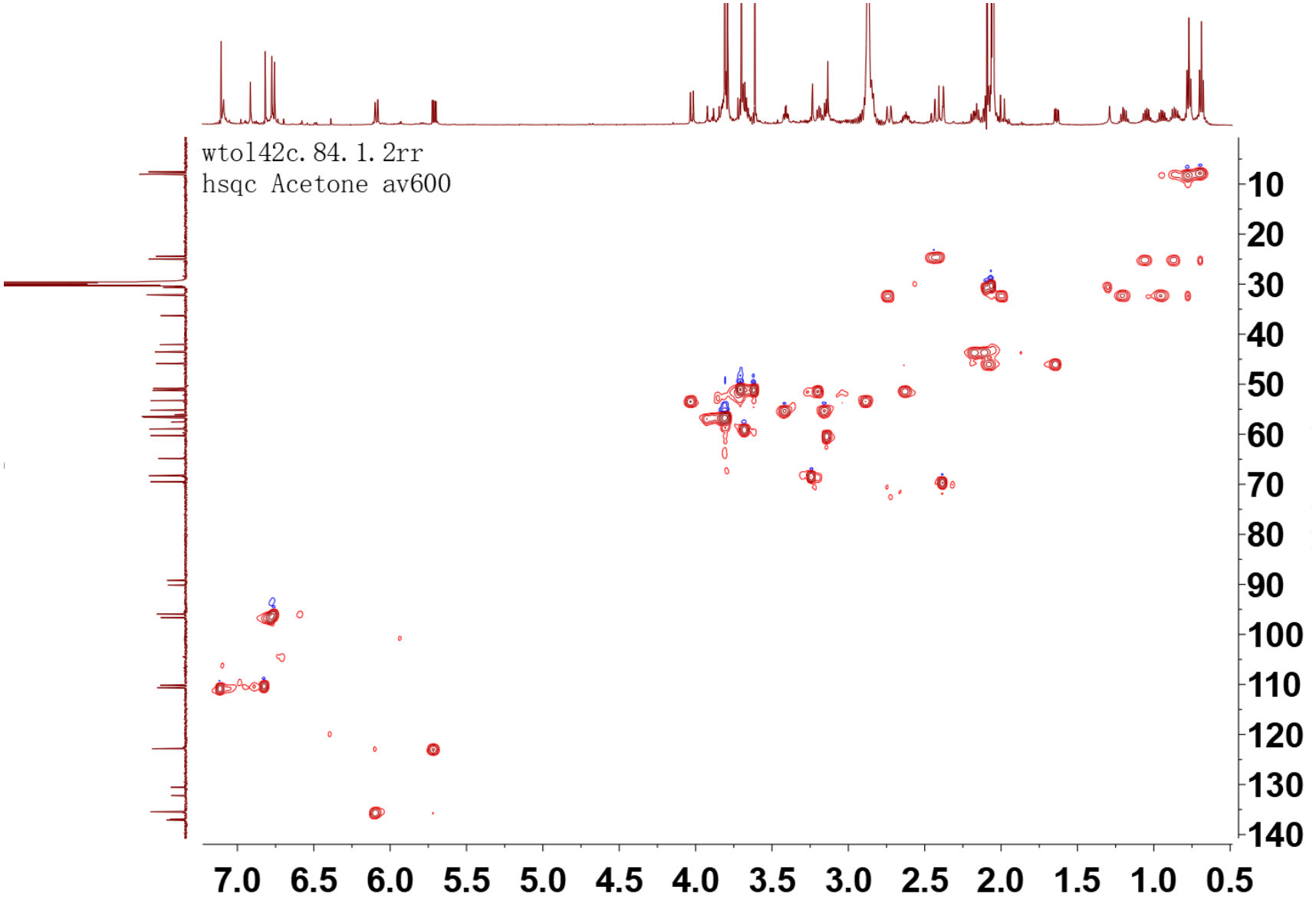


Figure S51 HSQC spectrum of compound **9** in acetone-d_6

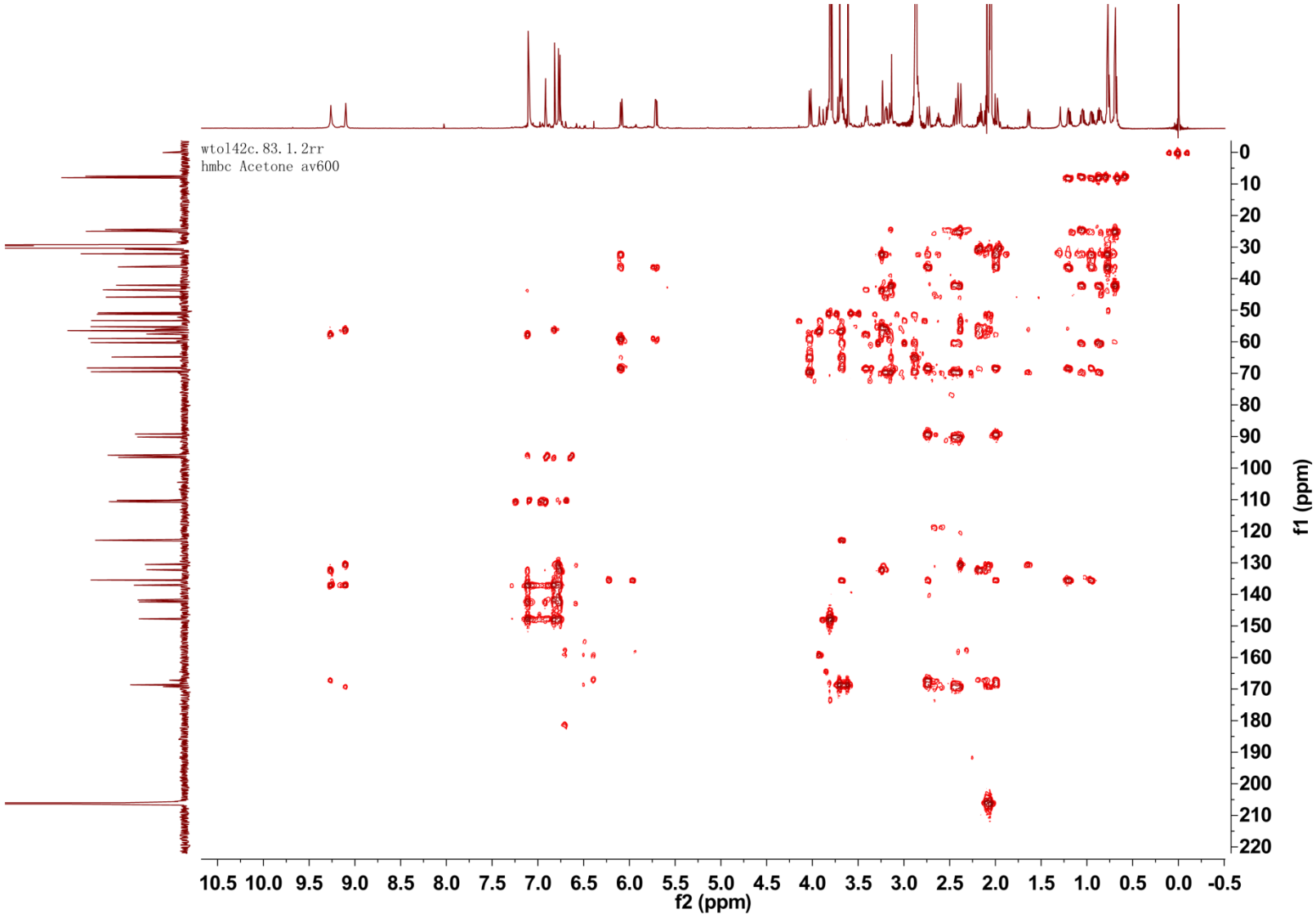


Figure S52 HMBC spectrum of **9** in acetone-d_6

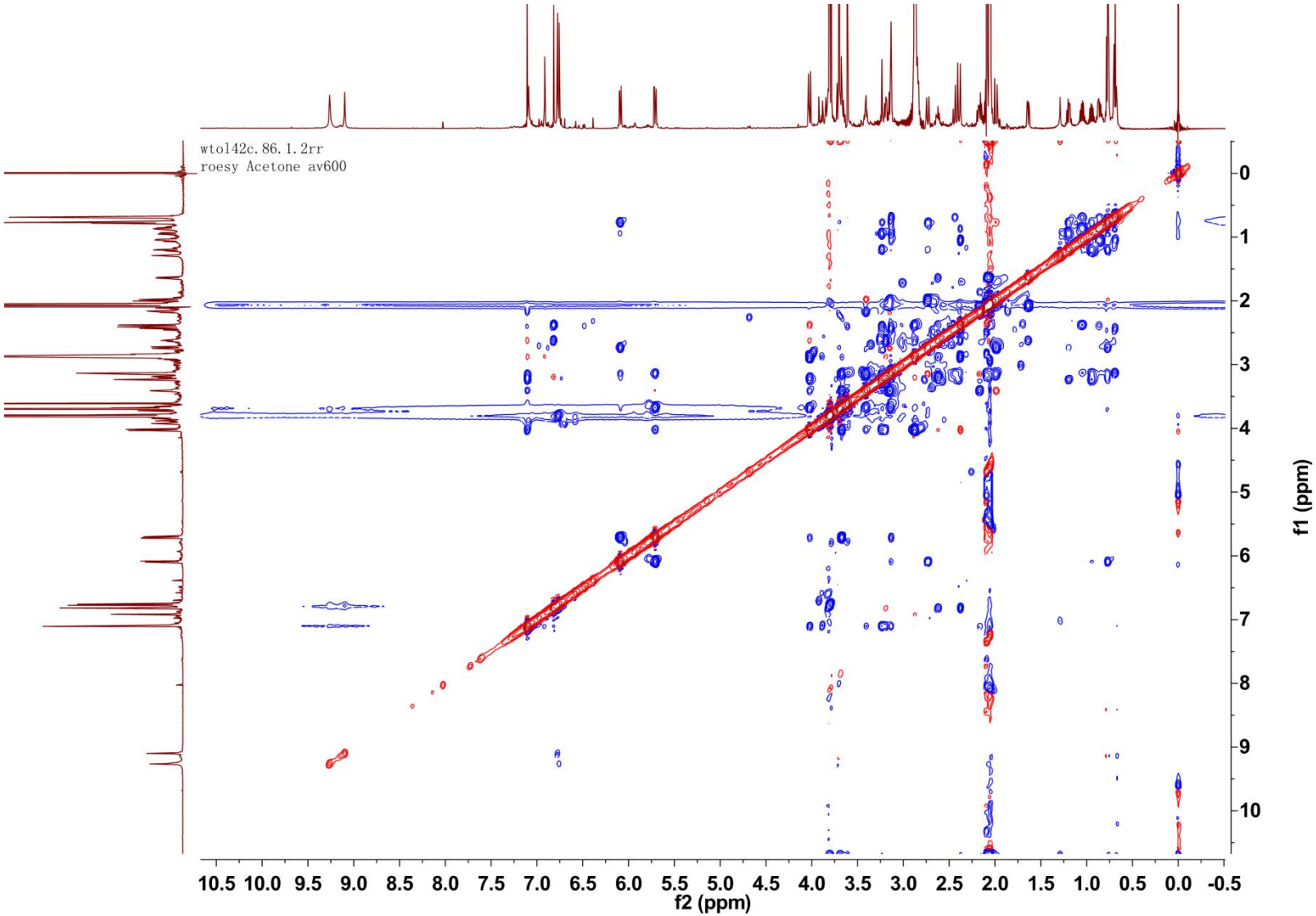


Figure S53 ROESY spectrum of **9** in acetone-d_6

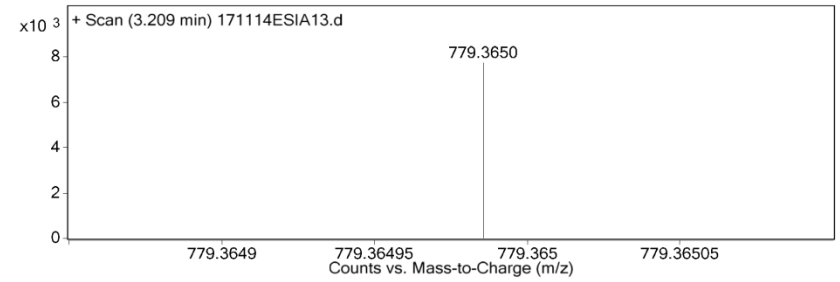
Qualitative Analysis Report

Data Filename	171114ESIA13.d	**Sample Name**	wtol-42c
Sample Type	Sample	**Position**	
Instrument Name	Agilent G6230 TOF MS	**User Name**	KIB
Acq Method	ESI.m	**Acquired Time**	11/14/2017 8:16:22 AM
IRM Calibration Status	Success	**DA Method**	ESI.m
Comment			

Sample Group	**Info.**
Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.05.01 (B5125.2)

User Spectra

Fragmentor Voltage	**Collision Energy**	**Ionization Mode**
250	0	ESI



Peak List

m/z	z	Abund	Formula	Ion
107.0608	1	47123.31		
108.0626	1	5383.18		
121.0509	1	12607.29		
123.0914	1	13160.61		
591.496	1	5479.41		
619.5269	1	8855.18		
779.365	1	7731.87	C44 H51 N4 O9	M+
833.3344	1	4690.06		
922.0098	1	49106.07		
923.0131	1	6869.29		

Formula Calculator Element Limits

Element	Min	Max
C	0	200
H	0	400
O	5	12
N	4	4

Formula Calculator Results

Formula	CalculatedMass	Mz	Diff.(mDa)	Diff. (ppm)	DBE
C44 H51 N4 O9	779.3656	779.3650	0.6	0.8	21.5

--- End Of Report ---

Figure S54 HRESIMS spectrum of acetone-d_6

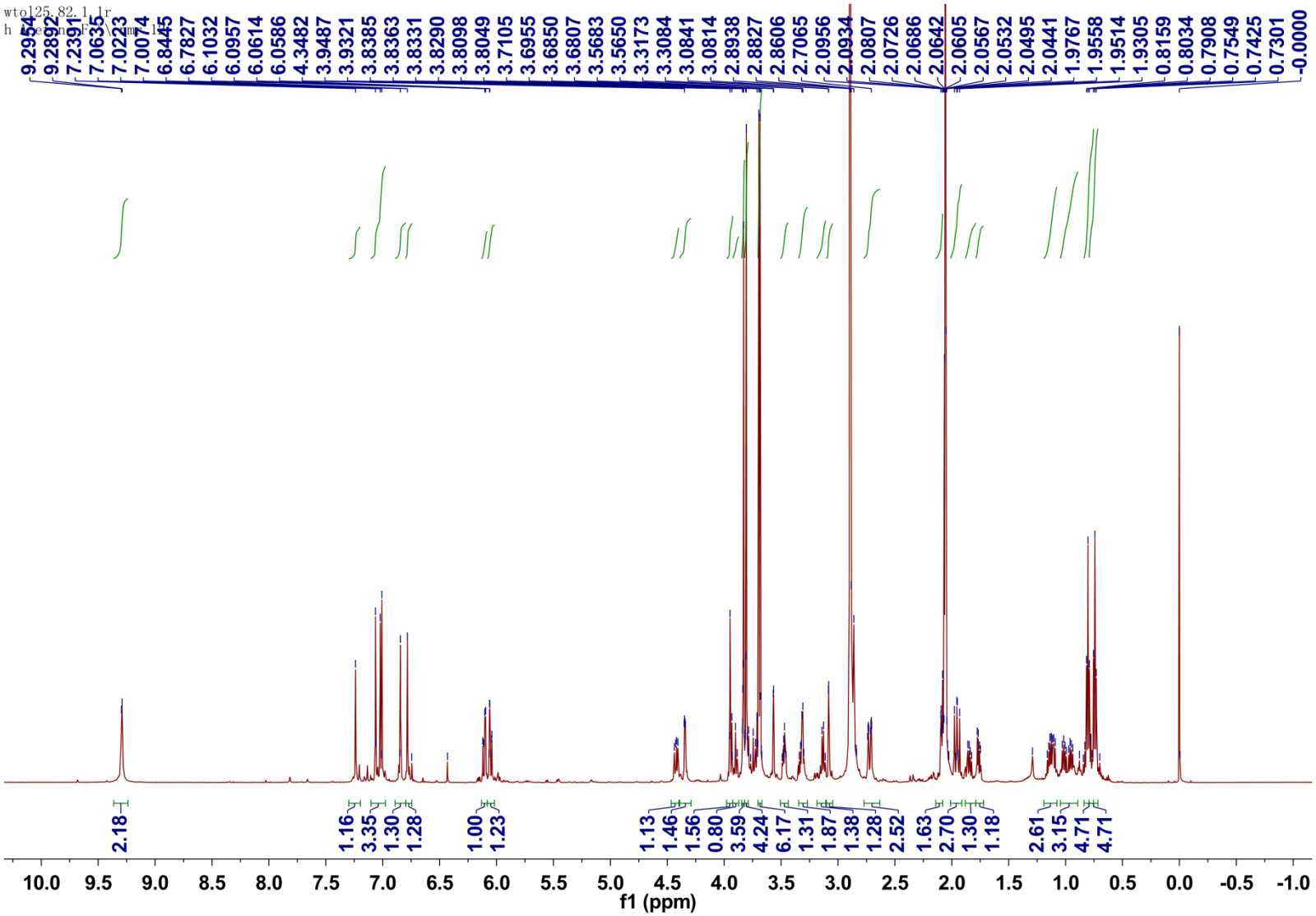


Figure S55 ^{1}H (600 MHz) NMR spectrum of compound **10** in acetone-d_6

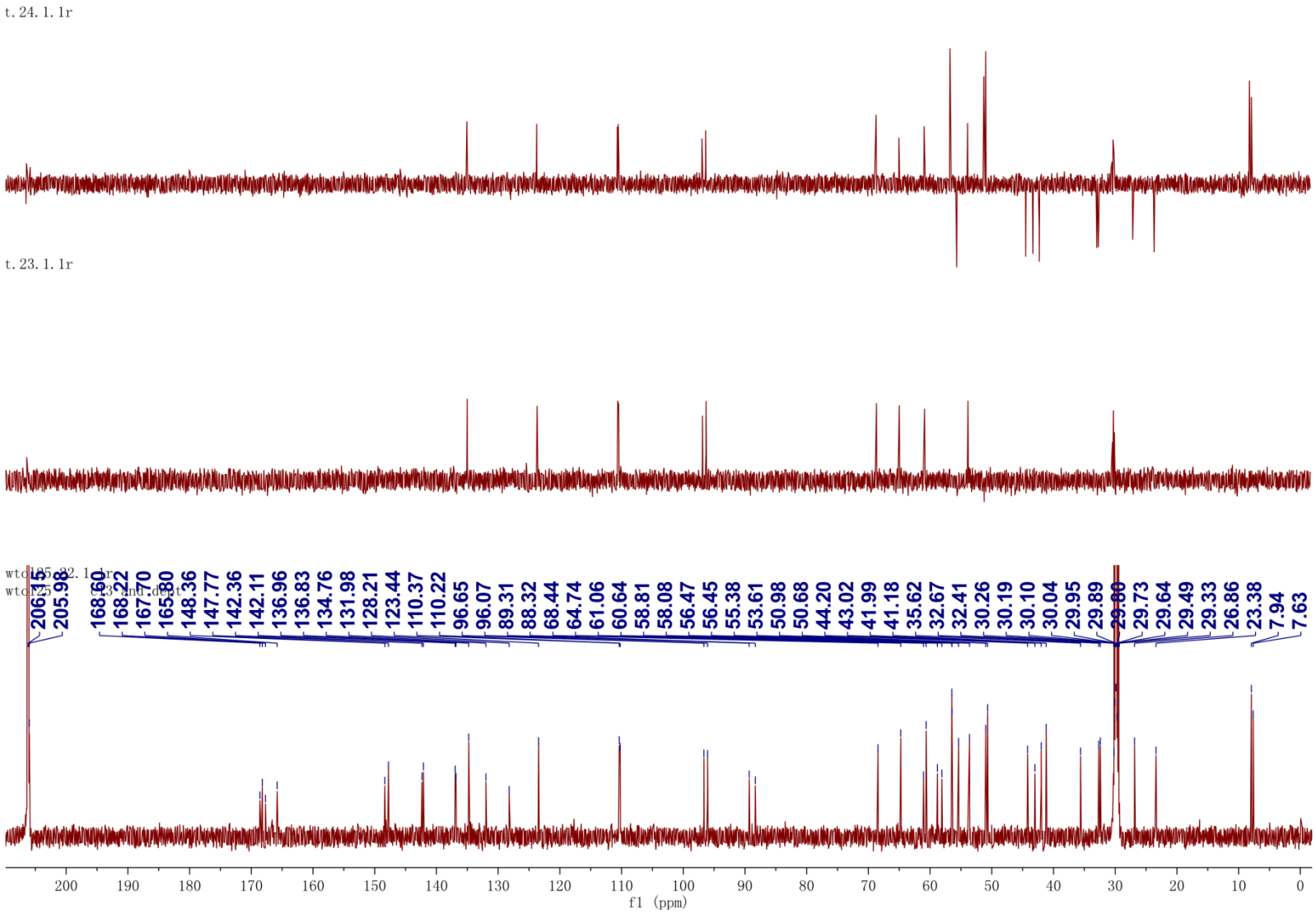


Figure S56 ^{13}C(150 MHz) NMR spectrum of compound **10** in acetone-d_6

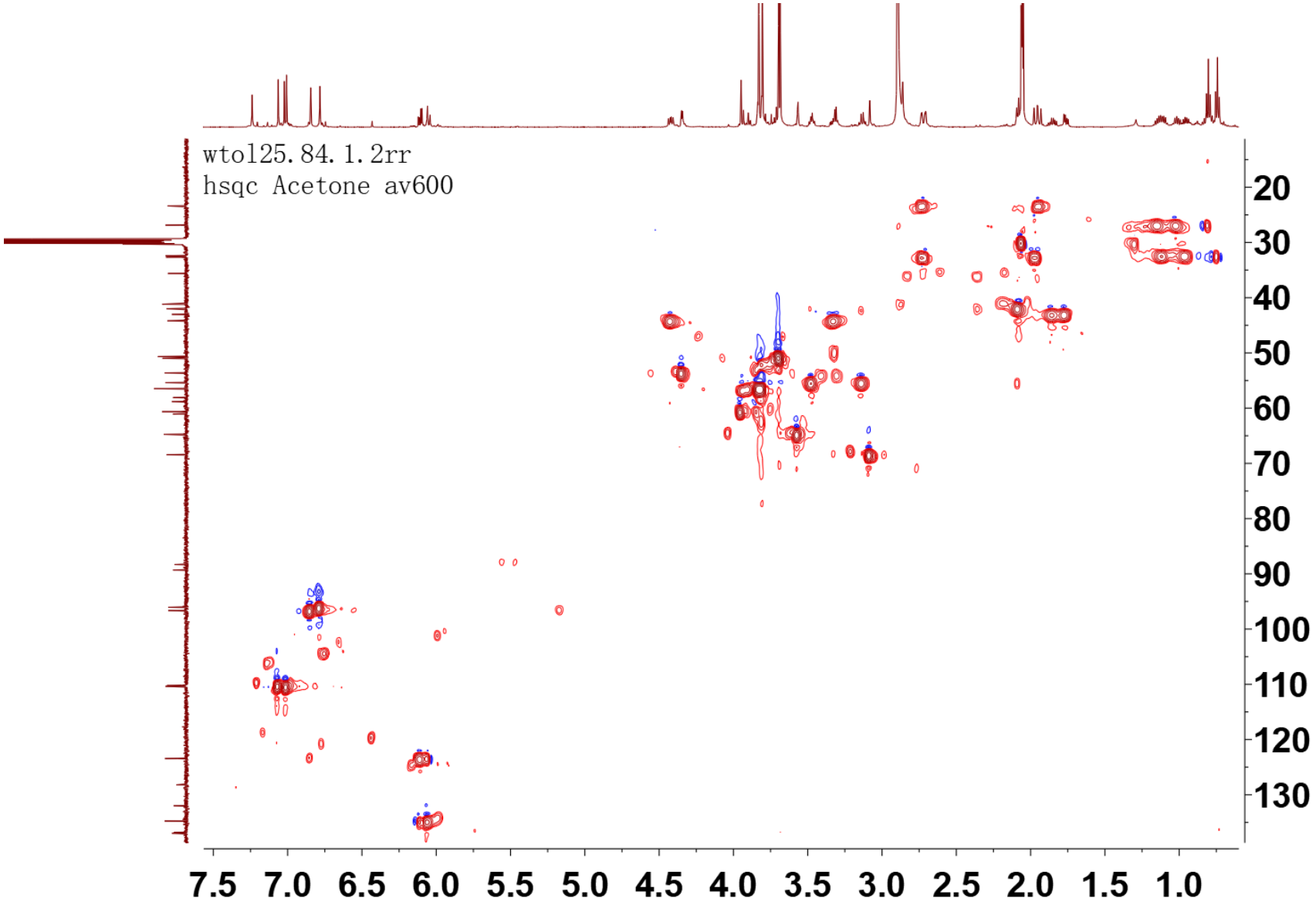


Figure S57 HSQC spectrum of compound **10** in acetone-d_6

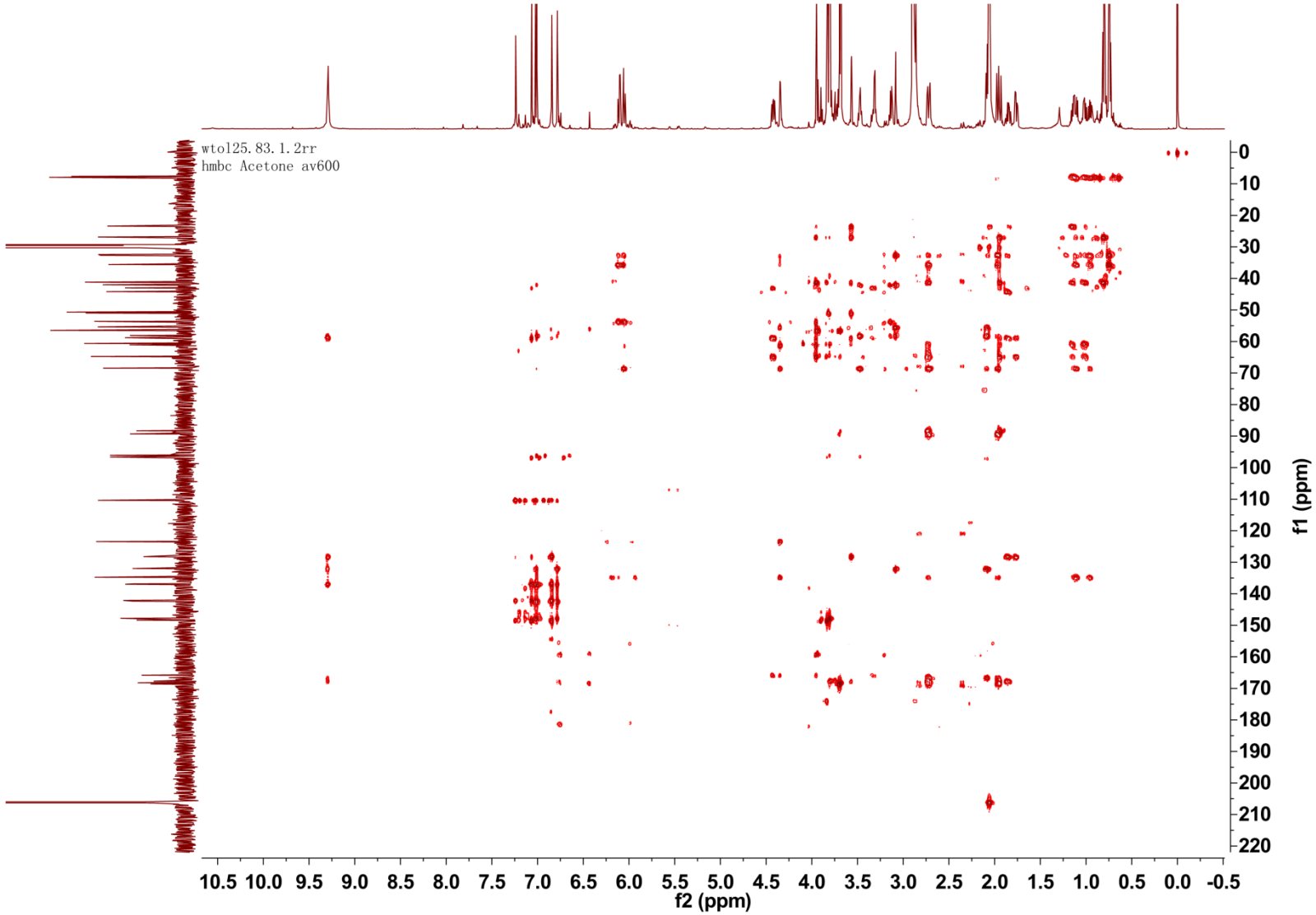


Figure S58 HMBC spectrum of compound **10** in acetone-d_6

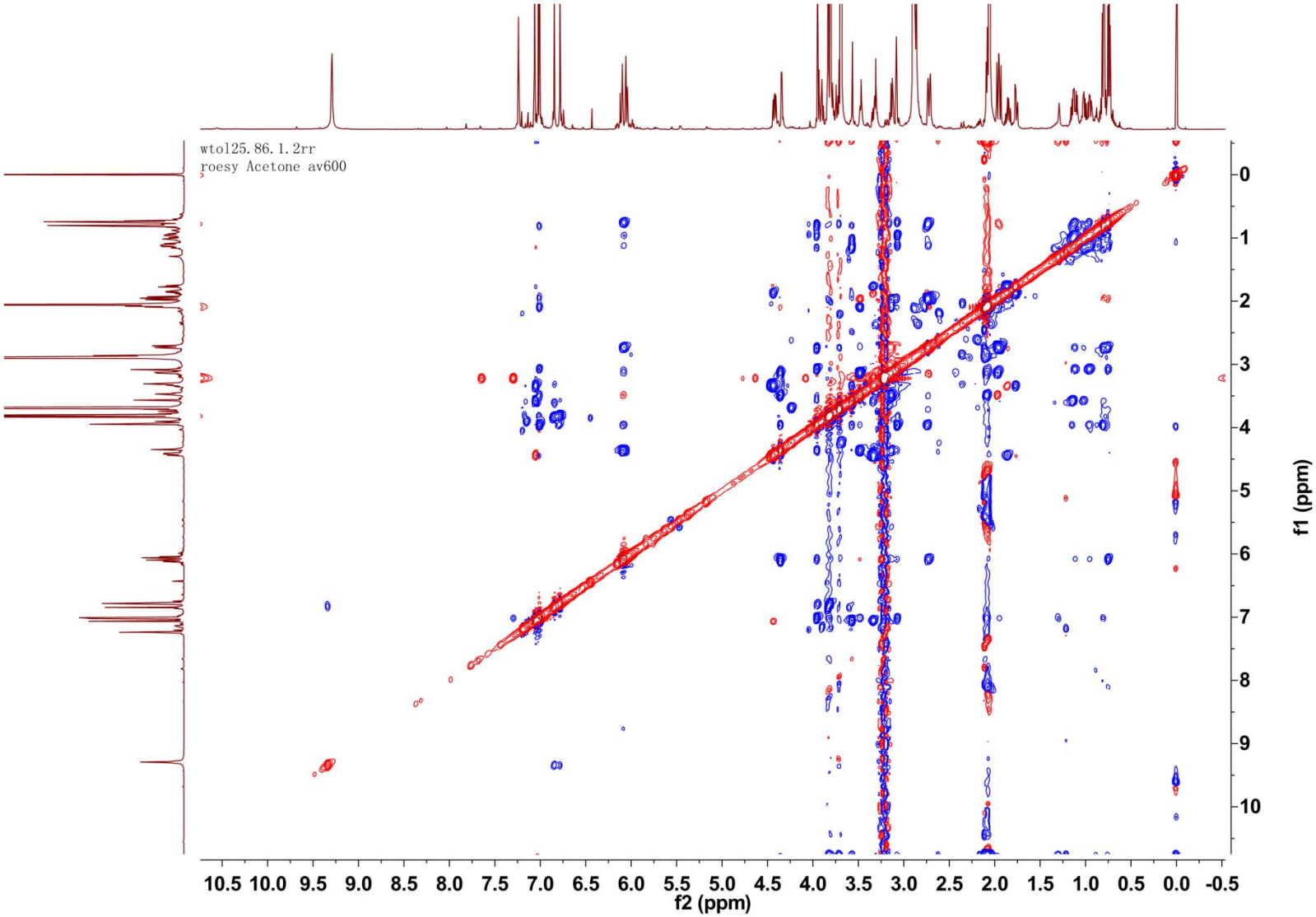


Figure S59 ROESY spectrum of compound **10** in acetone-d_6

Formula Predictor Report - wtol25.lcd

Data File: E:\DATA\2017\0920\wtol25.lcd

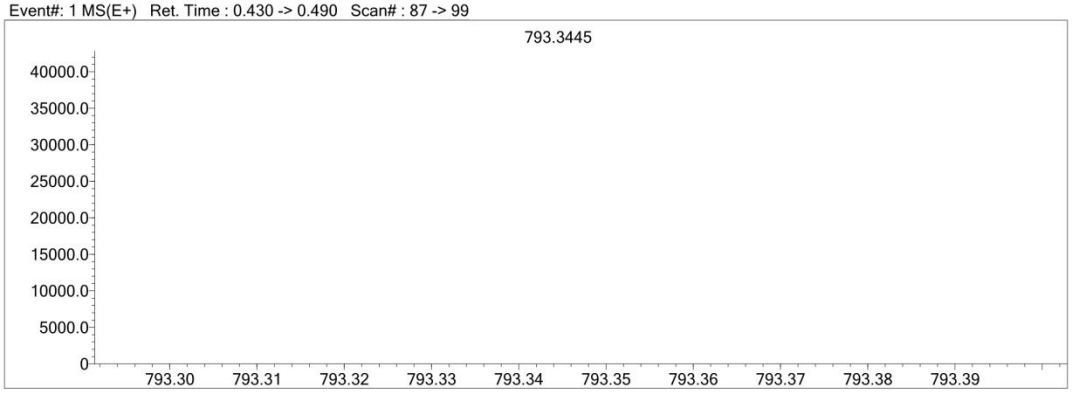
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	20	100	O	2	1	20	Si	4	0	0	Br	1	0	0	H
C	4	20	50	F	1	0	0	S	2	0	0	I	3	0	0	
N	3	1	10	Na	1	0	0	Cl	1	0	0					

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

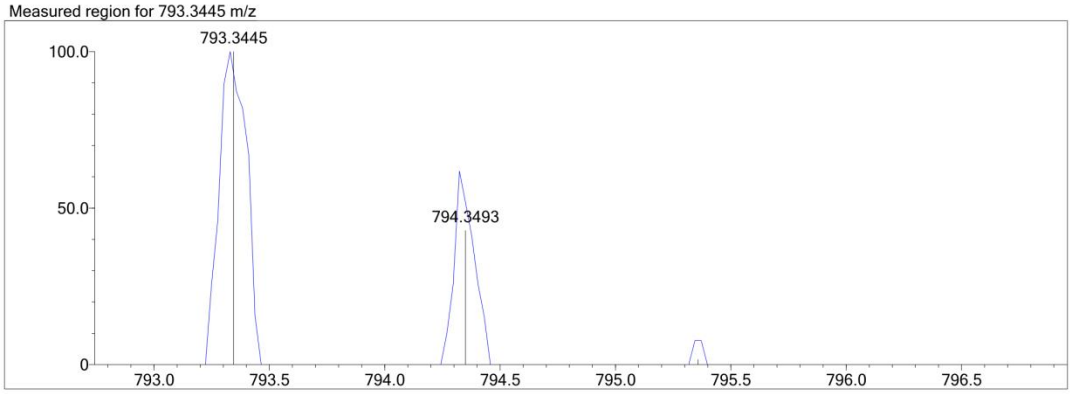
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

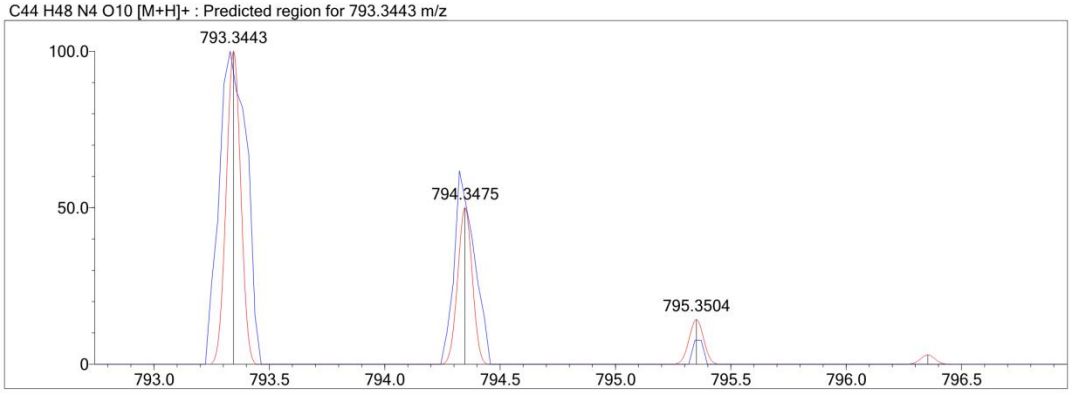
Event#: 1 MS(E+) Ret. Time : 0.430 -> 0.490 Scan# : 87 -> 99



Measured region for 793.3445 m/z



C44 H48 N4 O10 [M+H]+ : Predicted region for 793.3443 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H48 N4 O10	[M+H]+	793.3445	793.3443	0.2	0.25	23.0

Figure S60 HRESIMS spectrum of compound **10**

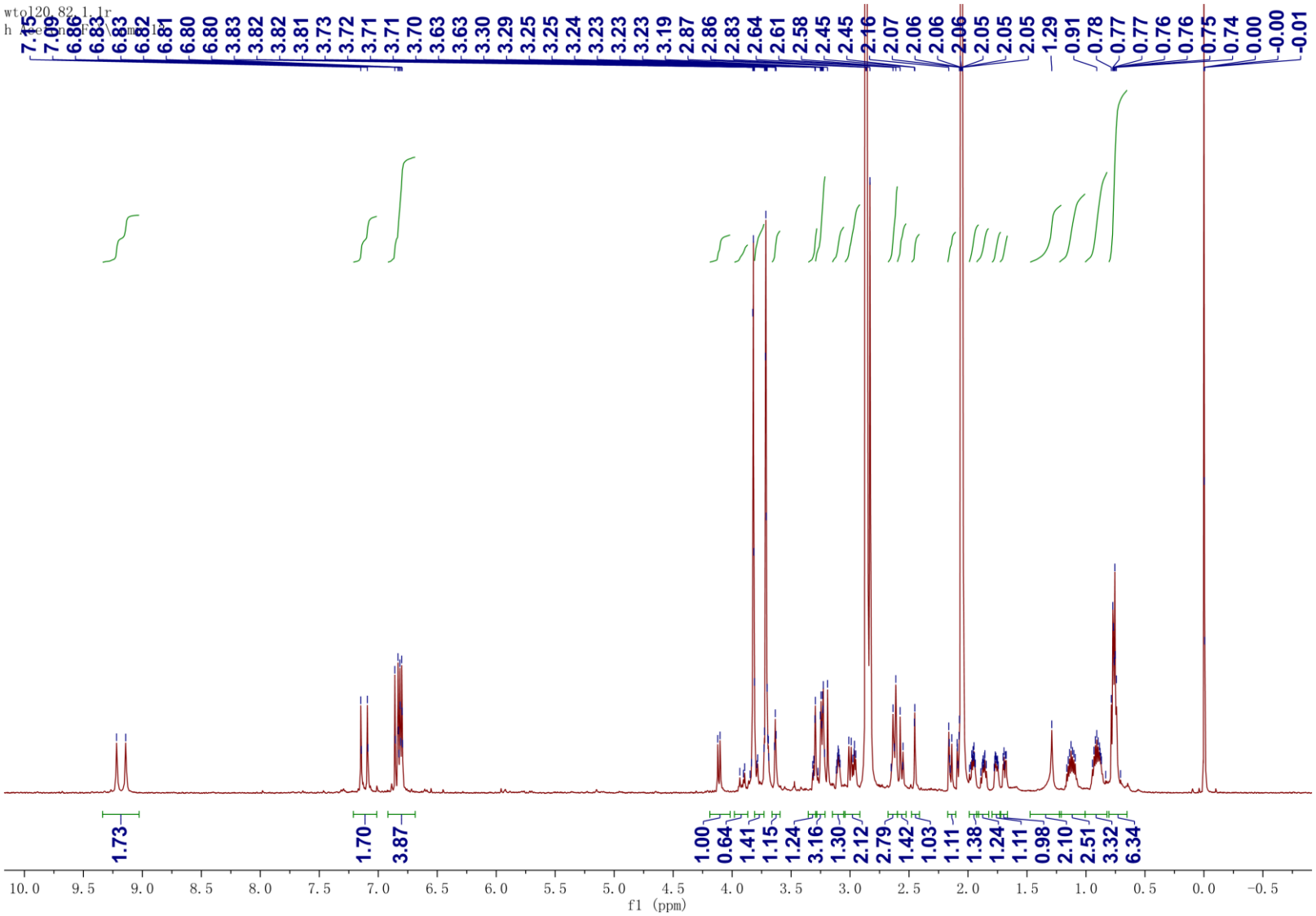


Figure S61 ^{1}H (600 MHz) NMR spectrum of compound **11** in acetone-d_6

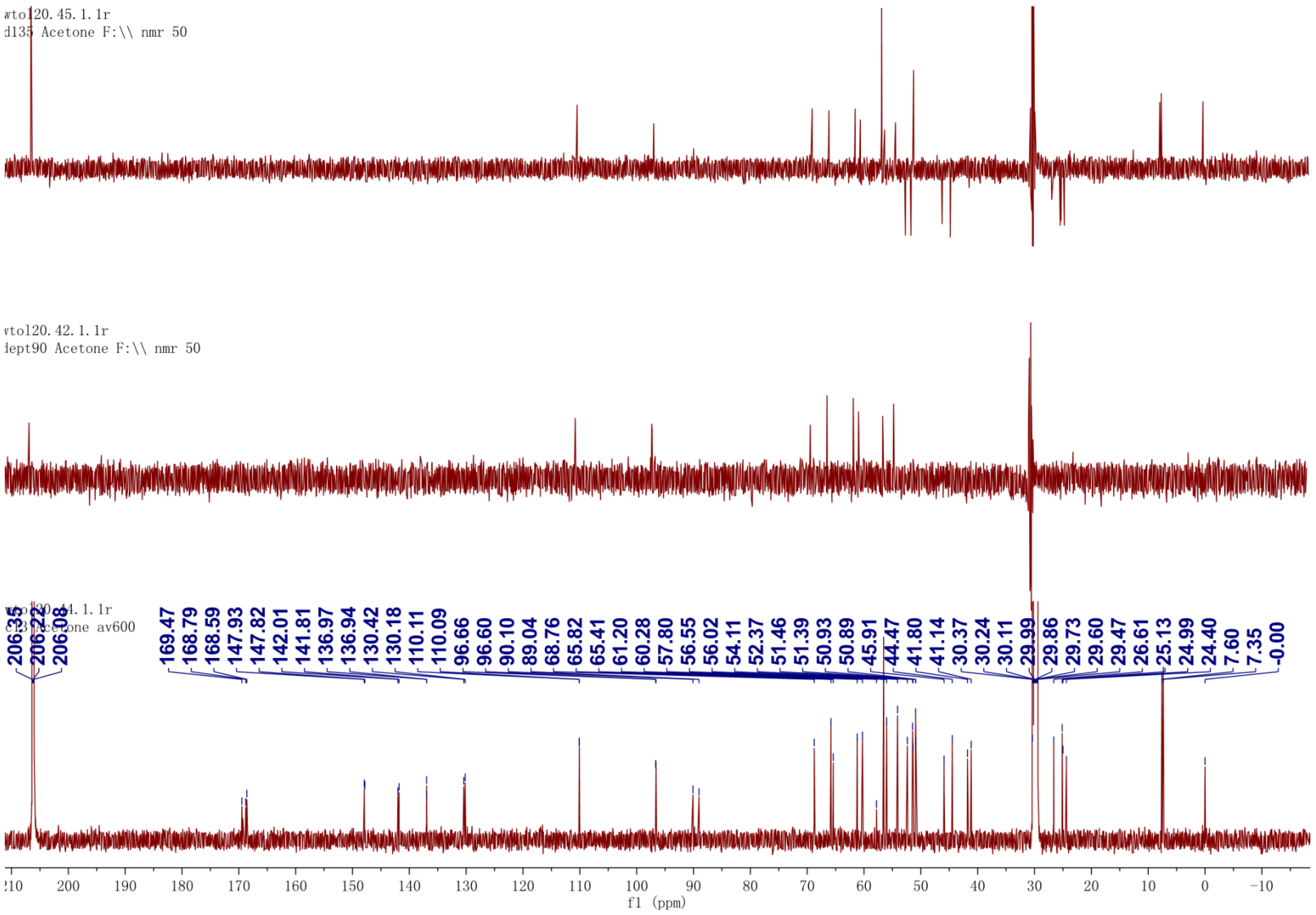


Figure S62 ^{13}C (150 MHz) NMR spectrum of compound **11** in acetone-d_6

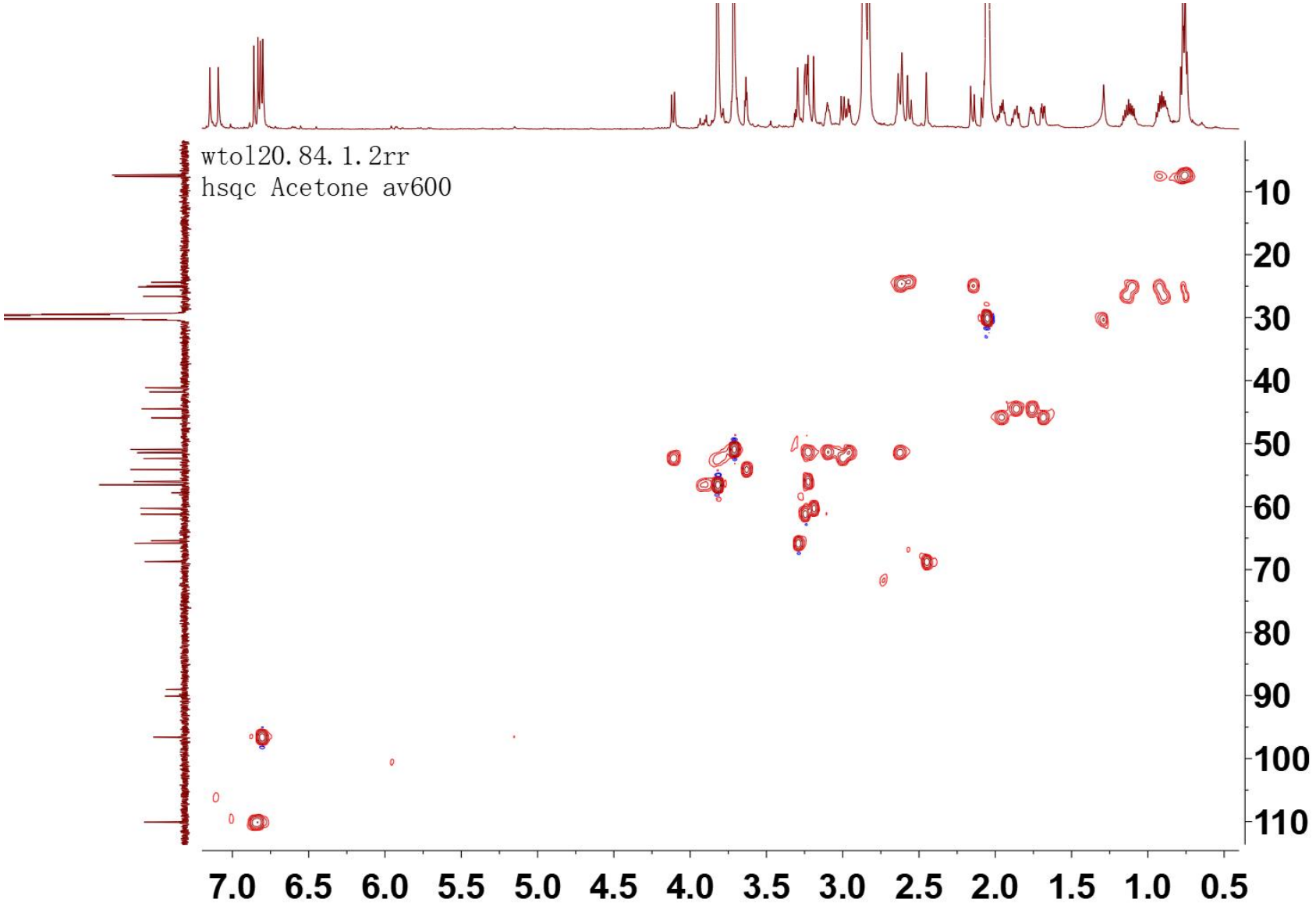


Figure S63 HSQC spectrum of compound **11** in acetone-d_6

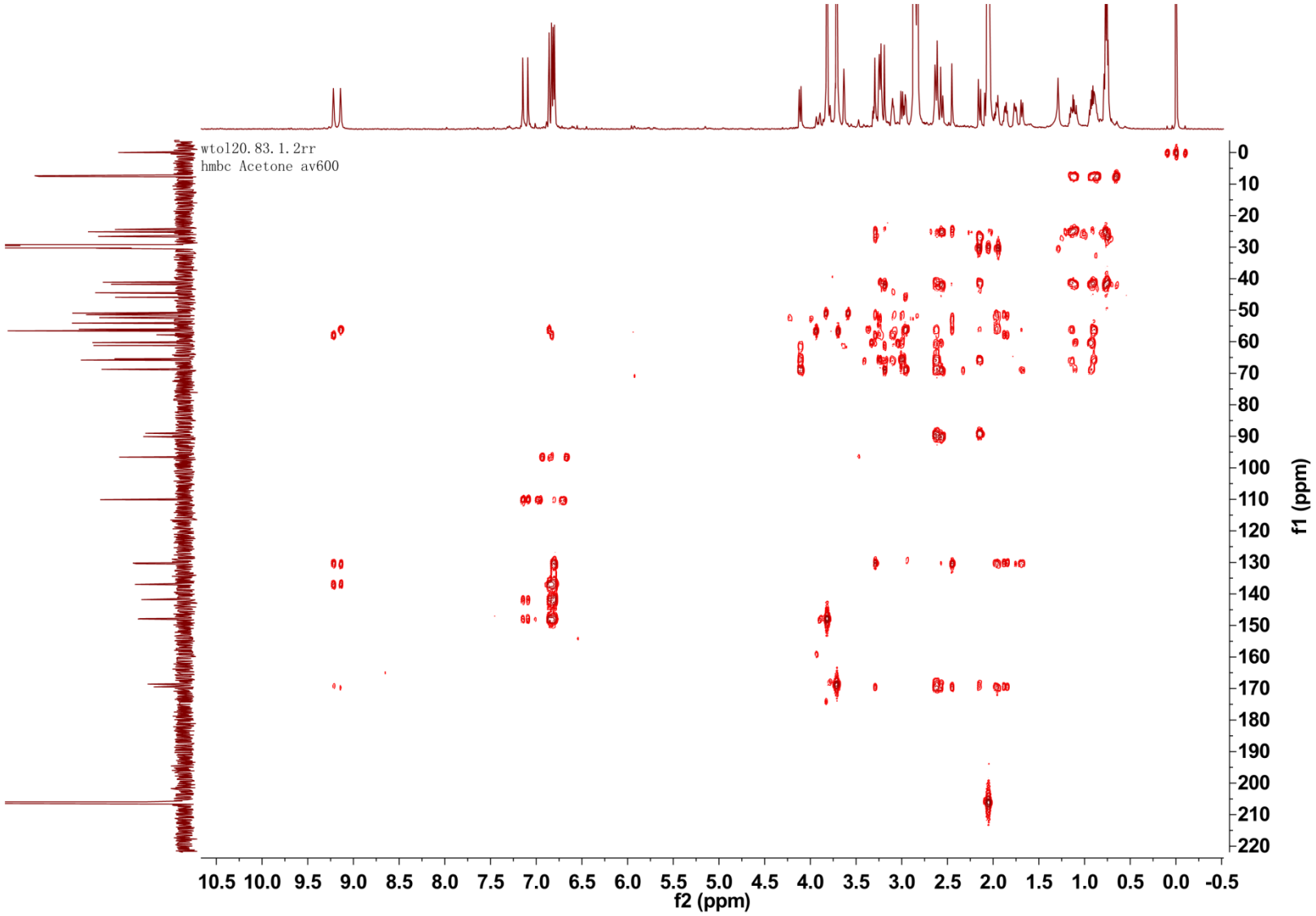


Figure S64 HMBC spectrum of compound **11** in acetone-d_6

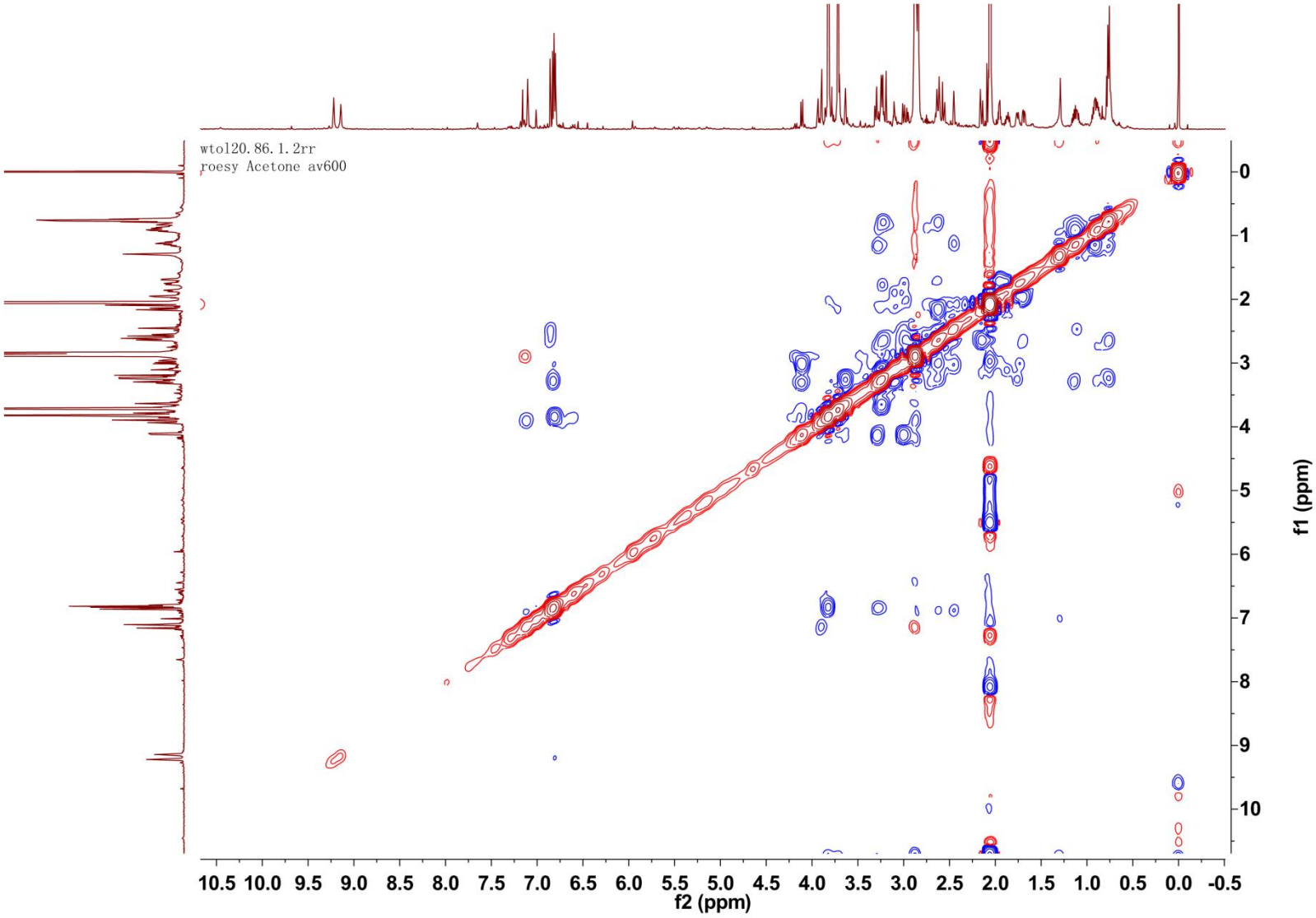


Figure S65 ROESY spectrum of compound **11** in acetone-d_6

Data File: E:\DATA\2017\0926\wtol-20.lcd

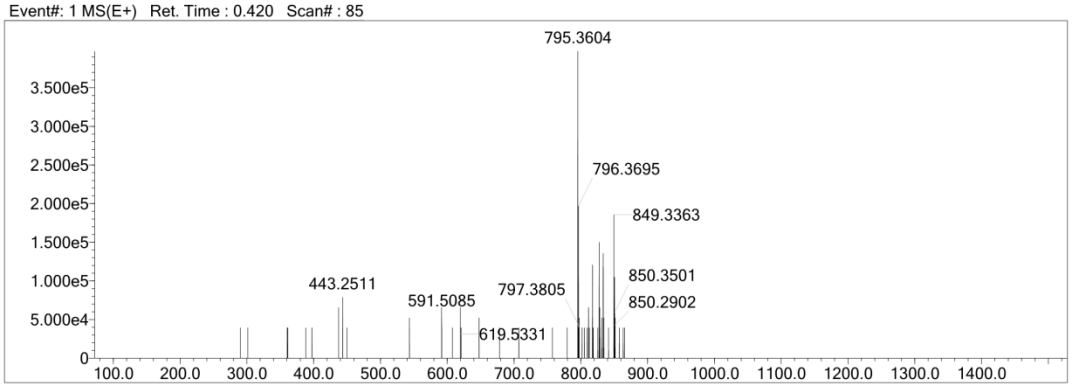
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	40	100	N	3	0	50	Mg	2	0	0	Fe	2	0	0	H
2H	1	0	0	O	2	0	50	P	3	0	0	Br	1	0	0	
B	3	0	0	F	1	0	0	S	2	0	0	I	3	0	0	
C	4	40	100	Na	1	0	0	Cl	1	0	0	Pt	2	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

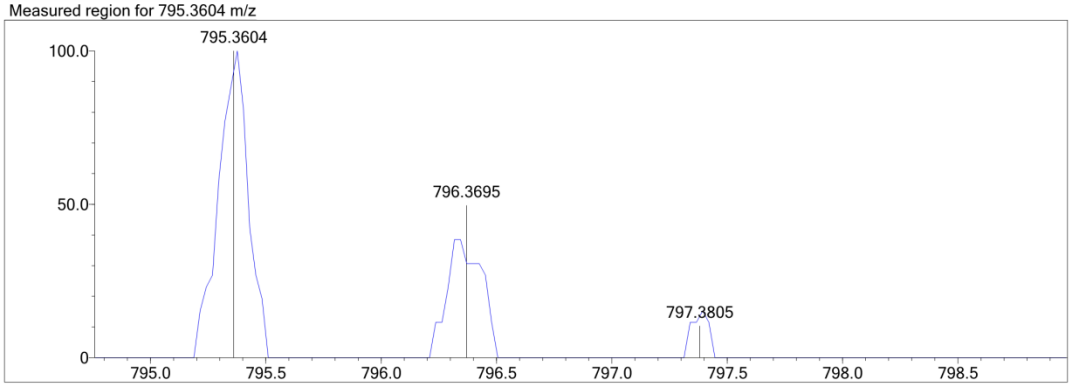
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: AND

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

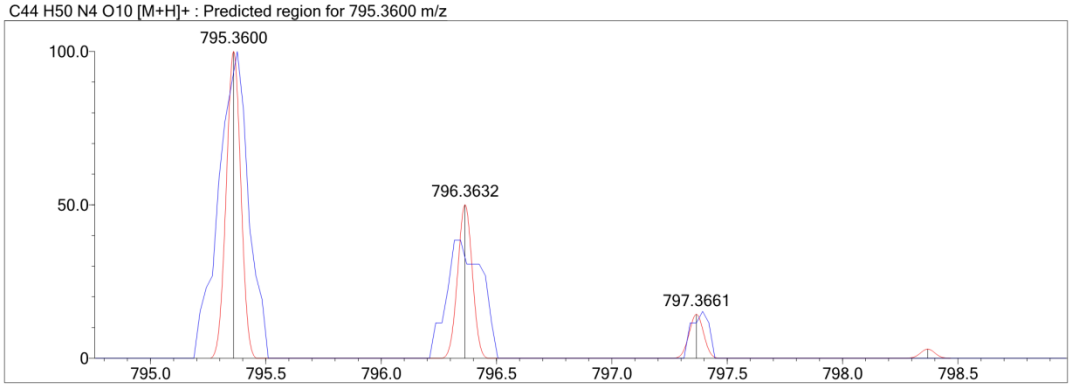
Event#: 1 MS(E+) Ret. Time : 0.420 Scan# : 85



Measured region for 795.3604 m/z



C44 H50 N4 O10 [M+H]+ : Predicted region for 795.3600 m/z



Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C44 H50 N4 O10	[M+H]+	795.3604	795.3600	0.4	0.50	22.0

Figure S66 HRESIMS spectrum of compound **11**

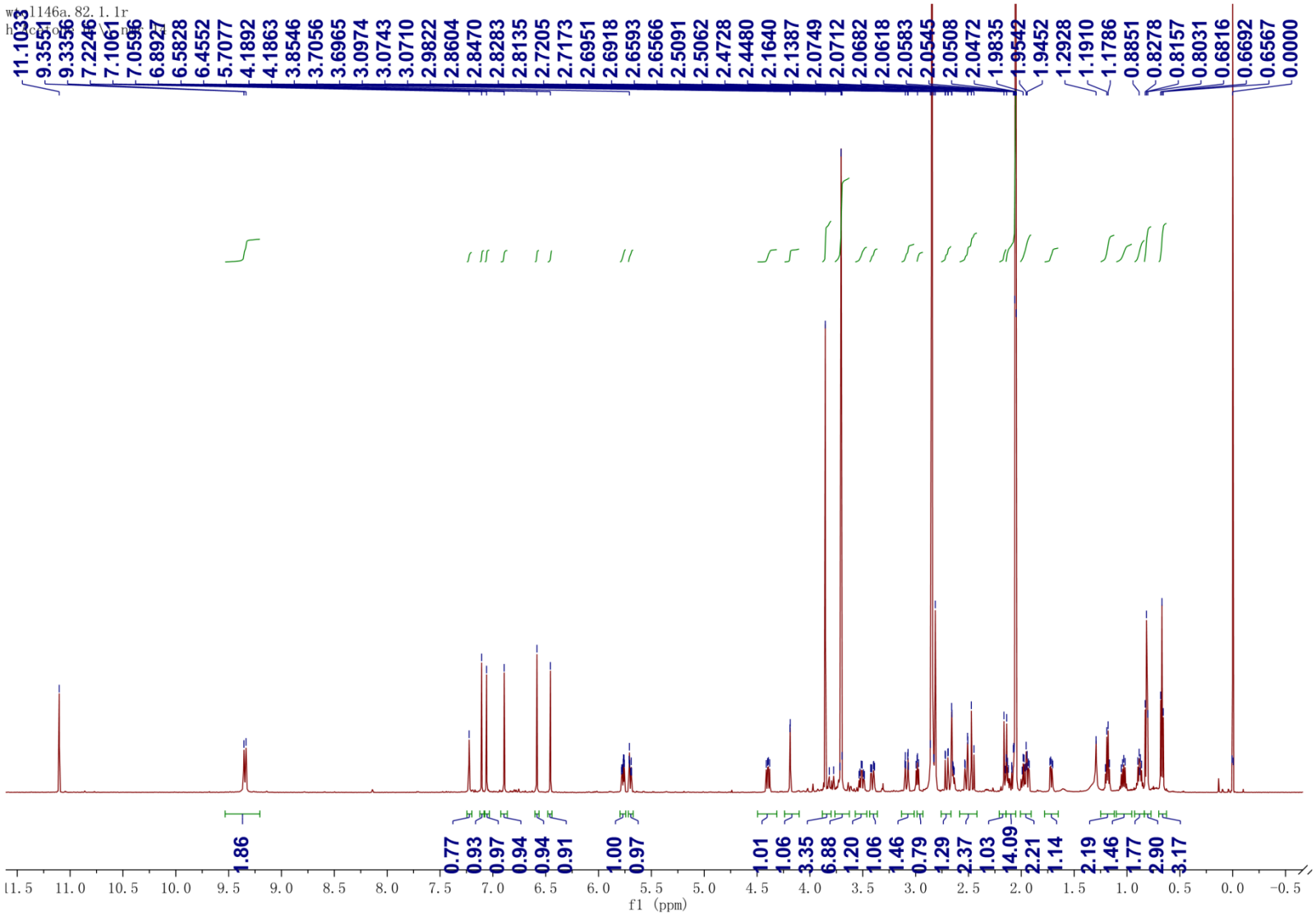


Figure S67 ^{1}H (600 MHz) NMR spectrum of compound **12** in acetone-d_6

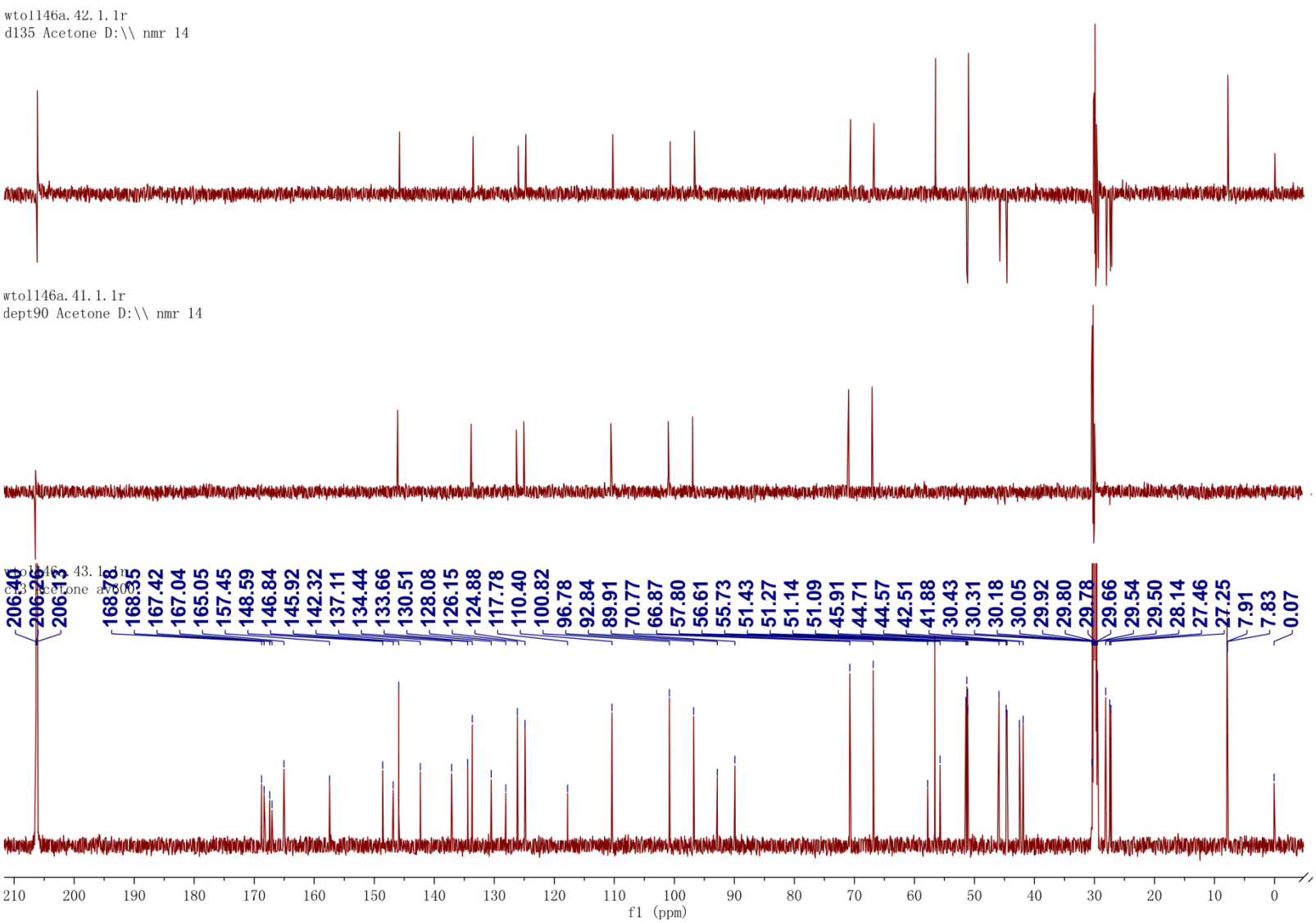


Figure S68. ^{13}C(150 MHz) NMR spectrum of compound **12** in acetone-d_6

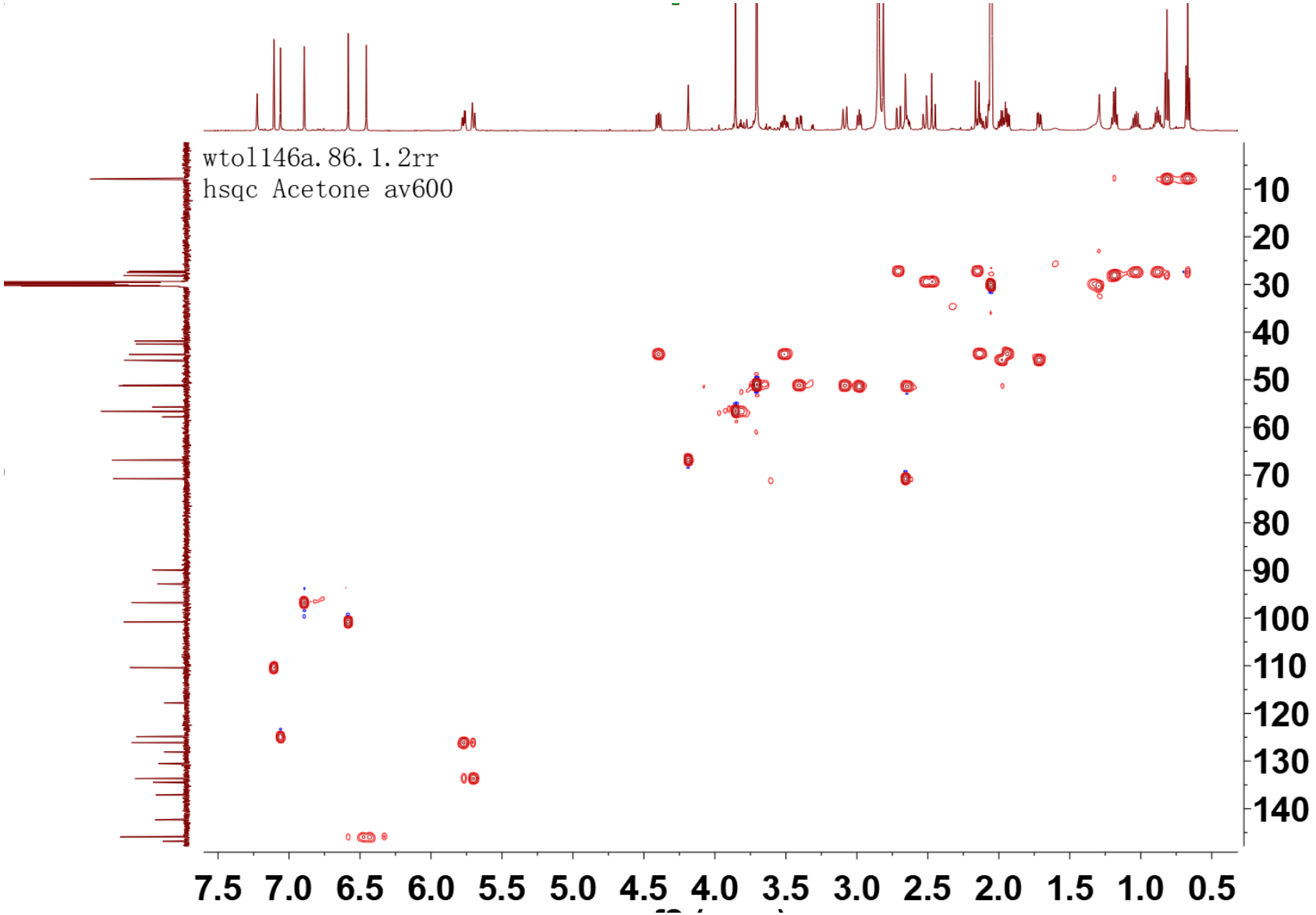


Figure S69. HSQC spectrum of compound **12** in acetone-d_6

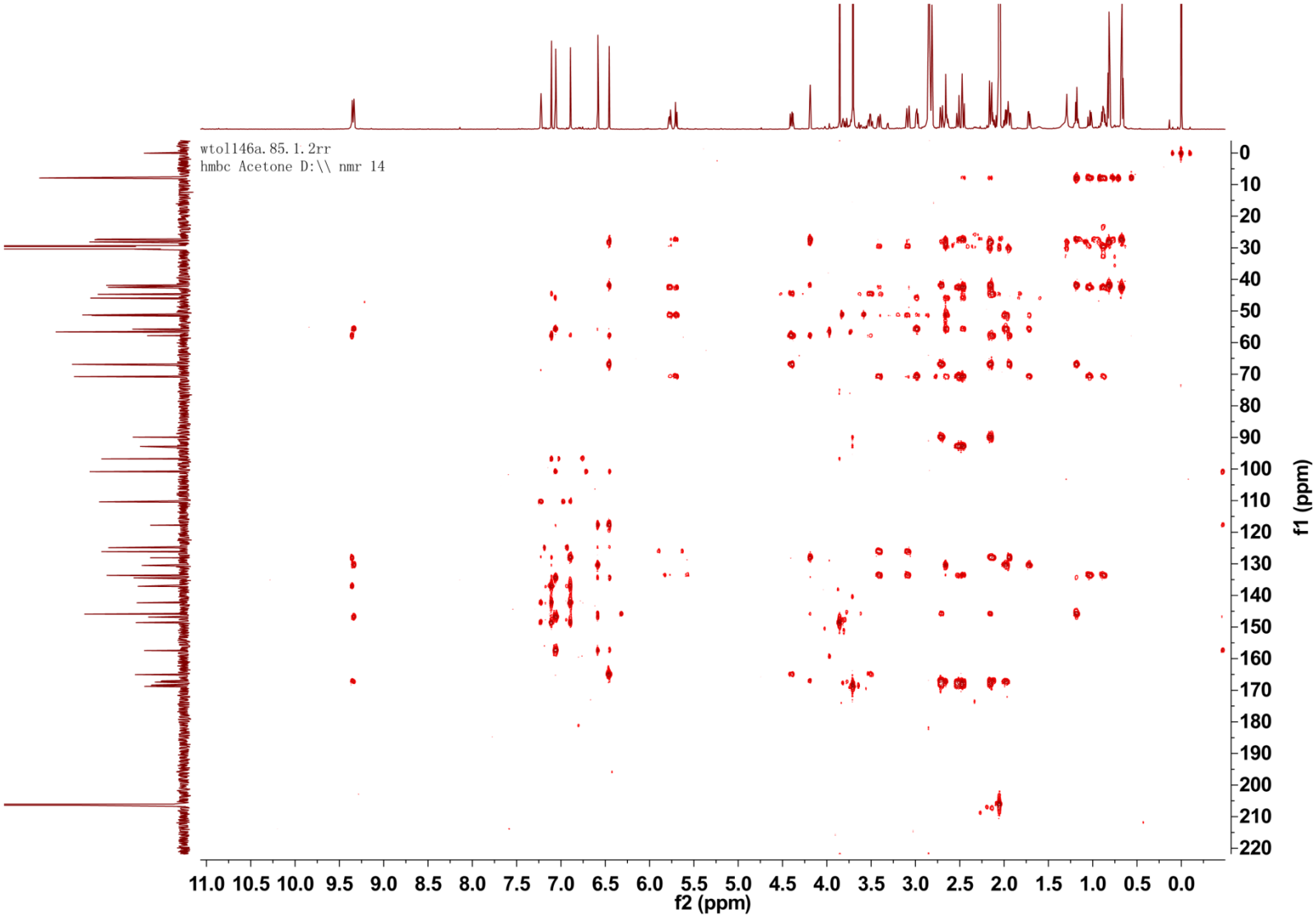


Figure S70 HMBC spectrum of compound **12** in acetone-d_6

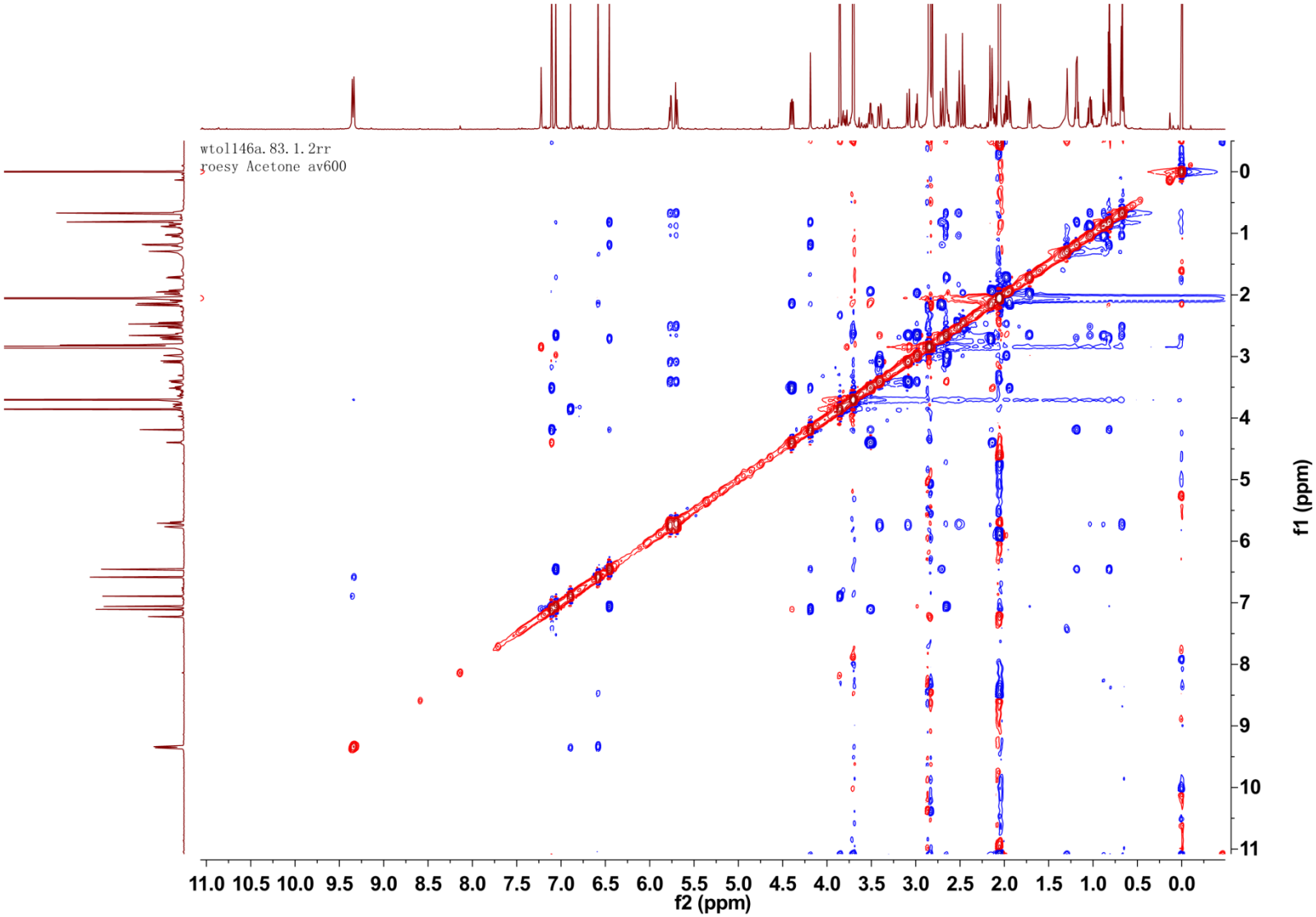


Figure S71 ROESY spectrum of compound **12** in acetone-d_6

Formula Predictor Report - wtol-146a.lcd

Data File: E:\DATA\2018\0709\wtol-146a.lcd

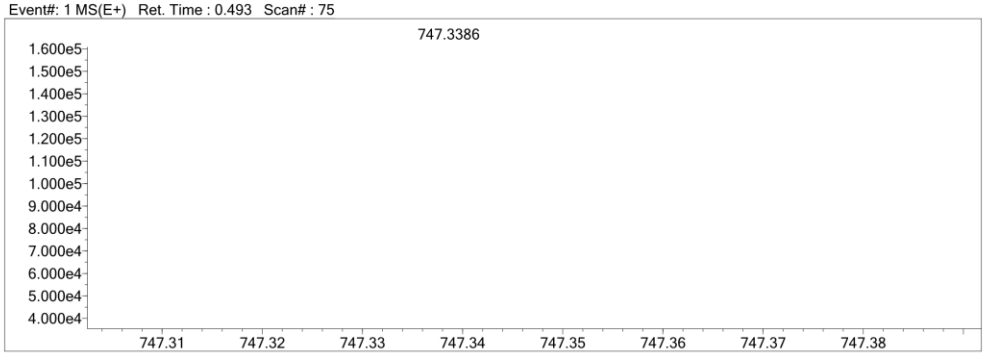
Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Elmt	Val.	Min	Max	Use Adduct
H	1	5	100	F	1	0	0	S	2	0	0	Br	1	0	5	H
C	4	5	50	Na	1	0	0	Cl	1	0	5	Pd	2	0	0	Na
N	3	0	10	Mg	2	0	0	Cu	2	0	0	Ag	1	0	0	
O	2	0	10	Si	4	0	0	Se	2	0	0	I	3	0	0	

Error Margin (ppm): 5
HC Ratio: unlimited
Max Isotopes: all
MSn Iso RI (%): 75.00

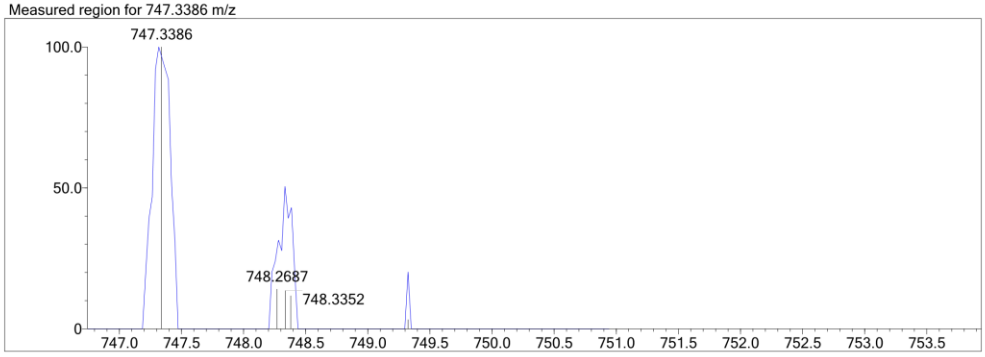
DBE Range: -2.0 - 100.0
Apply N Rule: yes
Isotope RI (%): 1.00
MSn Logic Mode: OR

Electron Ions: both
Use MSn Info: yes
Isotope Res: 10000
Max Results: 10

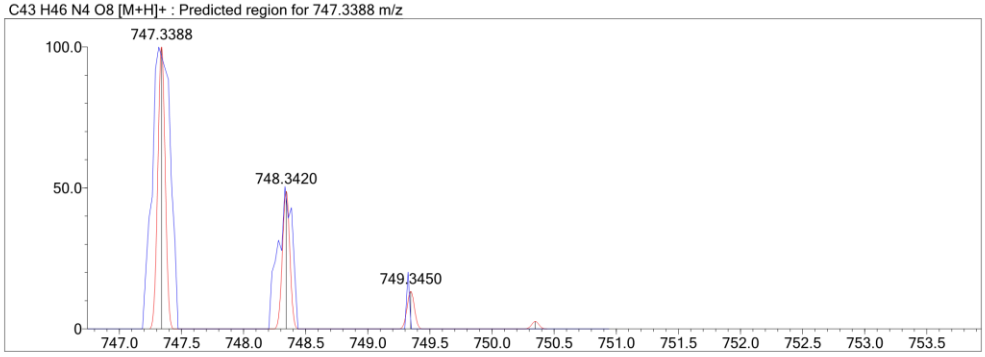
Event#: 1 MS(E+) Ret. Time : 0.493 Scan# : 75



Measured region for 747.3386 m/z



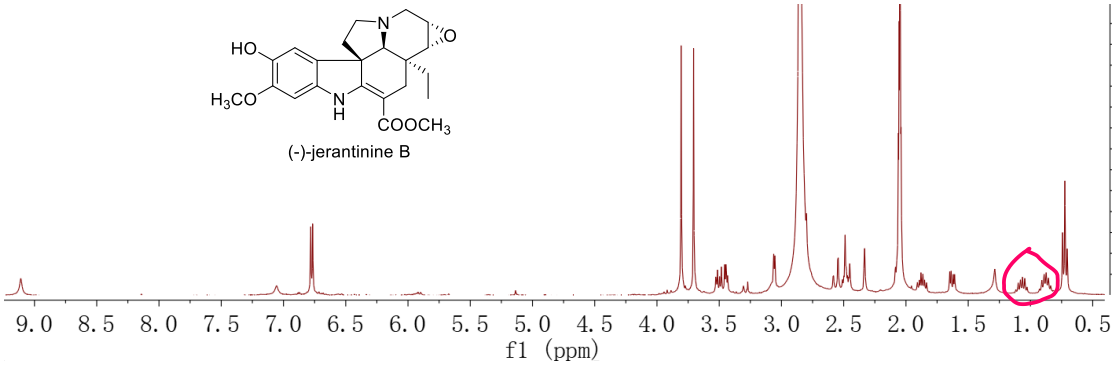
C43 H46 N4 O8 [M+H]+ : Predicted region for 747.3388 m/z

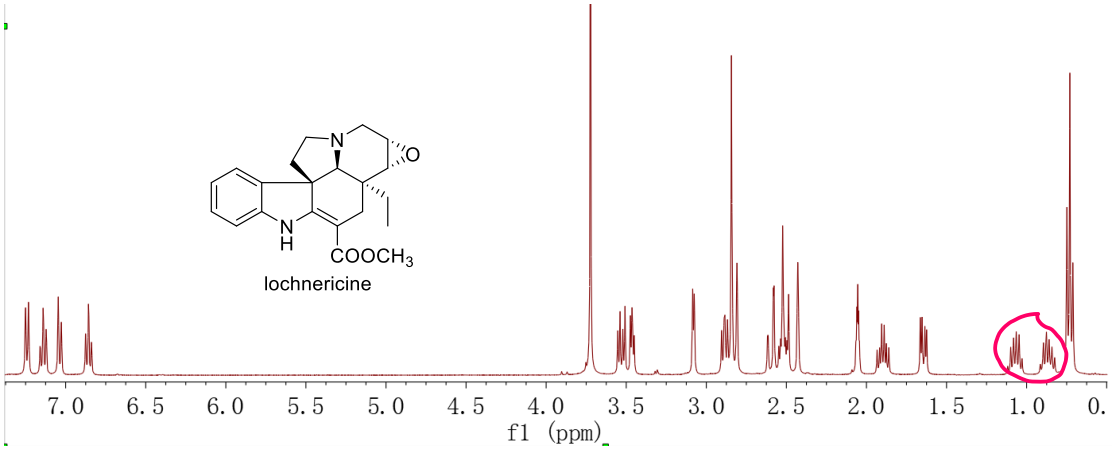


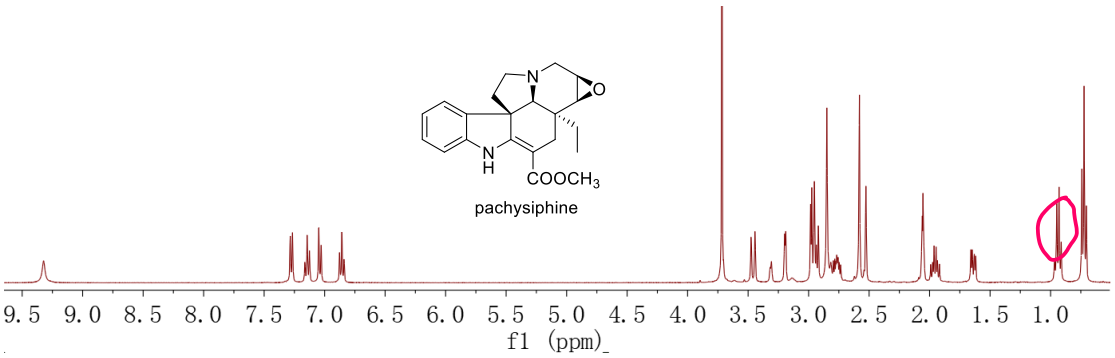
Formula (M)	Ion	Meas. m/z	Pred. m/z	Df. (mDa)	Df. (ppm)	DBE
C43 H46 N4 O8	[M+H]+	747.3386	747.3388	-0.2	-0.27	23.0

Figure S72 HRESIMS spectrum of compound **12**

Figure S73 ^{1}H spectrum of (-)-jerantinine B, lochnericine and pachysiphine







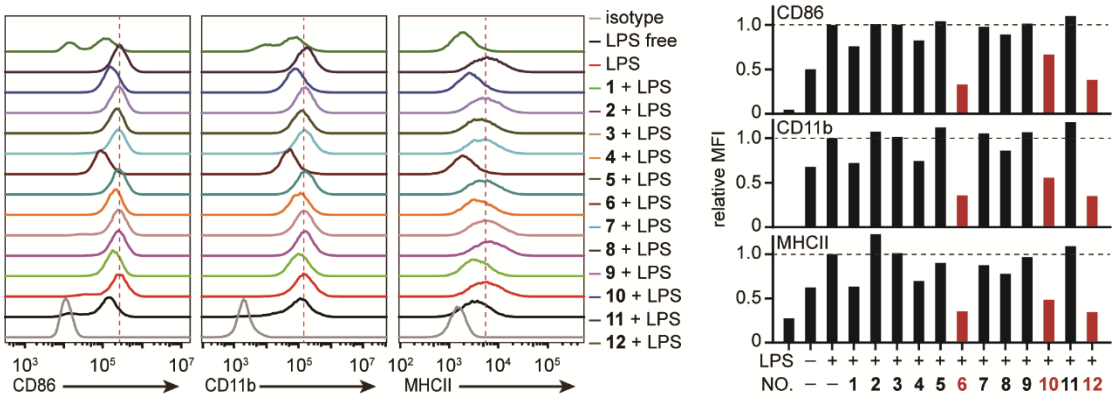


Figure S74. Screening of compounds **1** – **12** for their anti-inflammatory activity in BV2 microglia cells. FACS analysis of CD86, CD11b, MHCII expression (left) and statistical analysis of relative mean fluorescence intensity (MFI) (right). Compounds **6**, **10** and **12** show significant inhibitory activity. BV2 cells were pretreated with the compounds at the concentration of 10 μM or vehicle (DMSO) for 4 h and then stimulated with LPS (500 ng/mL) for 12 h. The cells were stained using FITC-conjugated anti-CD86, APC-conjugated anti-CD11b, PE-conjugated anti-MHCII antibodies and further analyzed using FACS.

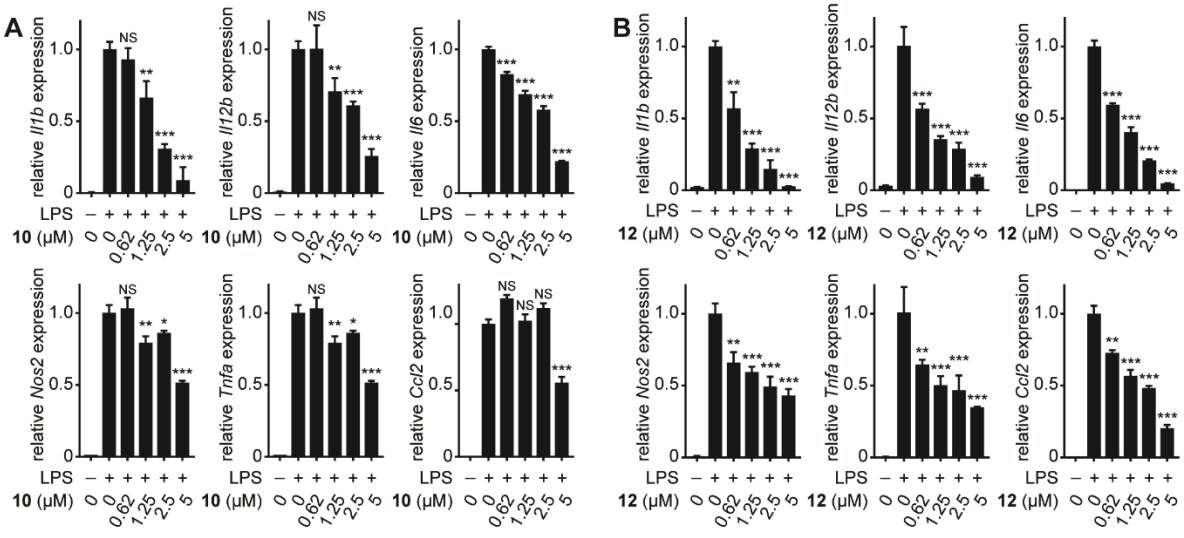


Figure S75. Compounds **10** (**A**) and **12** (**B**) inhibits inflammatory genes expression induced by LPS in BV2 cells. The cells were pretreated with the compounds at indicated concentrations for 4 h and then stimulated with LPS (500 ng/mL) for 12 h (n = 3). Data were presented as mean ± SD. *p < 0.05, **p < 0.01, ***P < 0.001. NS, not significant.

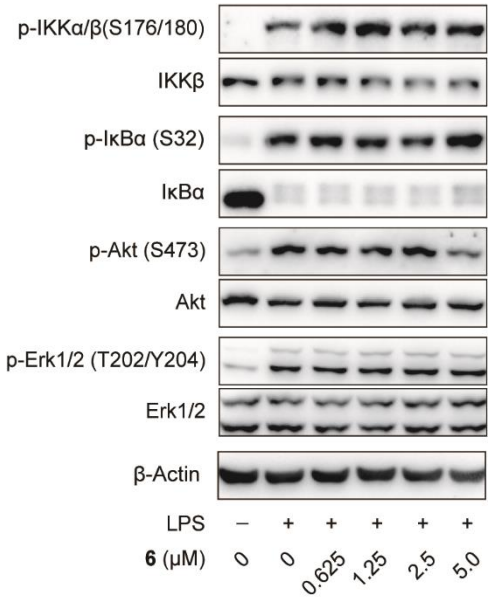


Figure S76. Immunolblotting of phosphorylated IKKα/β, IκBα, Akt, Erk and total IKKα/β, IκBα, Akt, Erk. BV2 cells were treated with **6** at indicated concentrations for 4 h and then stimulated with LPS (500 ng/mL) for 15 min.