Supplemental Experimental Procedures

Stereochemical Control of Splice Modulation in FD-895 Analogues

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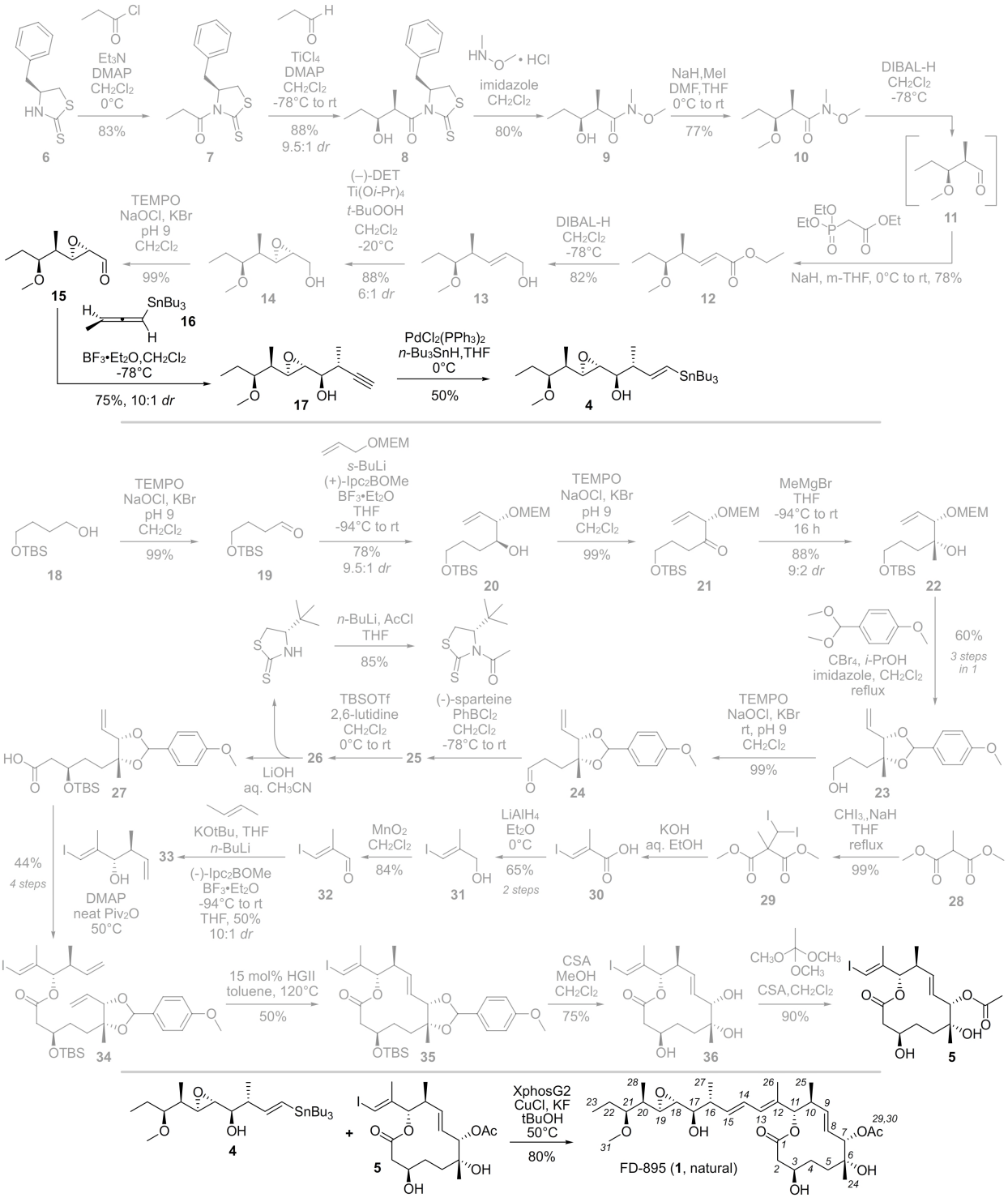


Figure S1. Synthesis of FD-895 (**1**) from aldehyde **15** and core **5.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of **14** and **36**, these steps are shown in grey. Steps used specifically to prepare **1** from **14** and **36** are shown in black. Experimental procedures are provided for these (black) steps.

Table S1. NMR data for FD-895 (**1**) in C_6D_6

Position[a]	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.1			
2’	2.30, dd (14.8, 3.9)	38.6	2’’w, 3	2’’, 3	1, 3, 4
2’’	2.20, dd (14.8, 3.0)		2’, 3	2’, 3, 4’, 5’	1, 3w
3	3.51, m	69.4	3OHw	2’, 2’’, 4’, 5’, 5’’, 6OH, 17OH	
3OH	3.66, d (11.0)		3	3, 6OH, 17OH	
4’	1.60, m	30.4	3w, 4’’, 5’	2’, 3, 8, 24	3, 5
4’’	1.25, m		3, 5’	3w, 5’, 7	3, 5
5’	1.54, m	35.9	5’’	2'', 3, 5’, 8	4, 6, 24w
5’’	1.23, m		4’	3, 4’, 7	4, 6, 7, 24w
6		73.3			
6OH	1.85, s			3, 3OH, 17OH	
7	5.26, s	79.2	8	4’’, 5’’, 8, 24	8, 9, 24, 26, 29
8	5.83, dd (15.2, 9.8)	126.5	7, 9	4’w, 5’, 7, 9, 10	6w, 9, 10
9	5.63, dd (15.2, 10.0)	140.7	8, 10	4’’, 5’’, 7, 8, 10, 11, 25	7, 8, 10, 11w, 25w
10	2.38, m	41.1	11, 25	7, 8, 9, 11w, 25, 26	8, 9, 11, 25
11	5.24, d (1.8)	82.6	10	9, 10w, 13, 25, 26w	1, 9, 10, 12, 14, 25, 26
12		131.6			
13	6.10, dd (10.9, 1.5)	131.7	14, 26	11, 14, 15, 25, 26w, 28w	11, 14, 15, 26
14	6.23, dd (15.0, 10.8)	126.2	13, 15	13, 15, 16, 26, 27	12, 13, 16
15	5.53, dd (15.0, 8.7)	138.3	14, 16	13, 14, 16, 17, 18, 27	13, 14, 16, 17, 27
16	2.39, m	42.6	17, 27	14, 15, 17, 18, 27	13w, 14, 15, 17, 18, 27
17	3.10, m	75.3	16, 18	15, 16, 18, 19, 27	16w, 27w
17OH	2.14, bs		17	3w, 3OH, 6OH, 17w	
18	2.66, dd (5.8, 2.2)	60.6	17, 19	15w, 16, 17, 20, 27, 28	17, 20
19	2.87, dd (8.3, 2.3)	59.7	18w, 20	17, 20, 21, 28, 31	17, 20, 21, 28
20	1.26, m	39.4	19, 28	18, 19, 21, 23, 28	18, 19, 21, 23, 27, 28
21	3.15, td (6.4, 4.1)	83.6	20, 22’, 22’’	19, 20, 22’, 22’’, 23, 28	19, 20, 22w, 23, 28, 31
22’	1.63, m	23.9	22’’, 23	21, 22’’, 23	20, 21, 23
22’’	1.37, ddd (14.0, 7.6, 6.7)		22’, 23	21, 22’, 23	20, 21, 23
23	0.84, t (7.5)	10.0	22’, 22’’	21, 22’, 22’’	21, 22
24	1.02, s	24.8		4’, 5’, 6OH, 7	5, 6, 7
25	0.70, d (6.8)	16.4	10	9, 10, 11, 13w, 26	9, 10, 11
26	1.57, d (1.3)	11.9		10, 11, 14, 25	11, 12, 13, 14, 15
27	1.14, d (6.8)	17.0	16	14, 15, 16, 17, 18w	15, 16, 17
28	0.83, d (7.1)	10.6	20	17, 18, 19, 21, 31w	19, 20, 21
29		169.0			
30	1.62, s	20.7			29
31	3.25, s	57.8		19, 23	21

[a] Position numbering is provided in Supporting Figure S1.

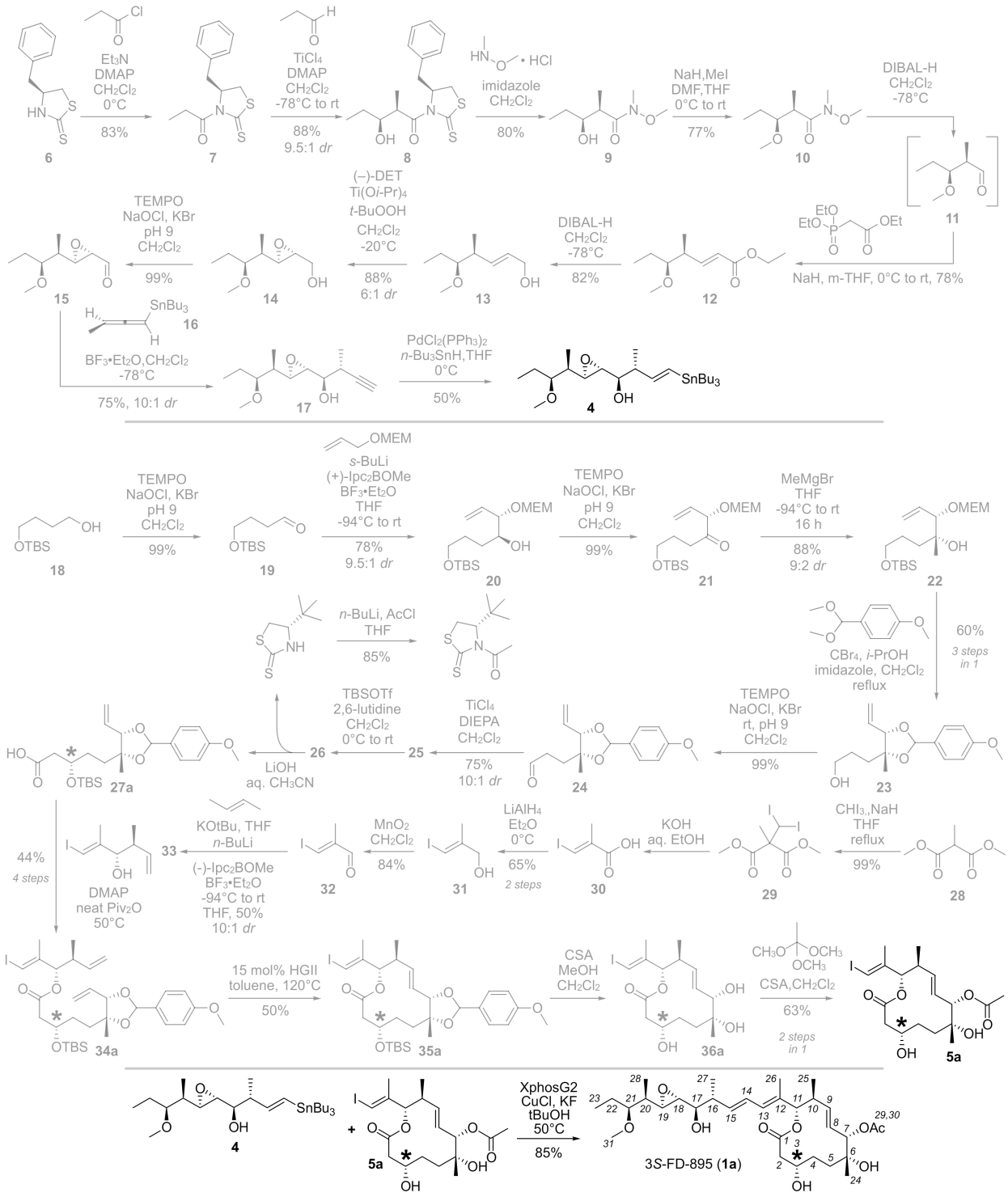


Figure S2. Synthesis of 3*S*-FD-895 (**1a**) from side chain **4** and core **5a.** The entire synthetic pathway is shown using the methods and materials (**4** and **5a**) prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1a** are shown in black. Experimental procedures are provided for these (black) steps.

Table S2. NMR data for 3*S*-FD-895 (1a) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		169.6			
2’	2.47, m	40.0	2’’, 3	3, 5’	1, 3, 4w
2’’	2.38, m		2’, 3	3	1, 3, 4
3	4.25, bs	67.3	2’, 2’’w	2’w, 2’’, 4’, 4’’	
3OH					
4’	1.35, m	27.5	3w, 4’’, 5’’	3, 5’, 5’’, 7	2w, 3w, 5w
4’’	1.33, m		3w, 4’, 5’	3, 5’, 5’’	3w, 5w
5’	1.88, dt (13.5, 6.5)	30.7	4’’, 5’’	4’’	4, 6, 24
5’’	1.82, m		4’, 5’	4’, 24	4, 6, 7, 24
6		73.4			
6OH					
7	5.26, d (9.8)	79.3	8	4’, 8, 9, 24	8, 9, 24w, 29
8	5.93, dd (15.2, 9.8)	126.6	7, 9, 10w	5’w, 7, 9, 10	6w, 10
9	5.62, dd (15.3, 10.0)	140.4	8, 10	7, 8, 10, 11, 25	7, 10, 11w, 25w
10	2.47, m	41.2	9w, 11, 25	8w, 25	8, 9, 11, 25w
11	5.20, d (10.7)	82.2	10	10w, 13, 25	1, 9, 10, 12, 13, 25w, 26
12		132.1			
13	6.17, d (11.0)	131.4	14, 26w	8, 15, 27w	11, 15, 26
14	6.26, dd (15.0, 10.9)	126.3	13, 15	15, 27	12, 13, 16
15	5.54, dd (15.0, 8.7)	137.9	14, 16	7, 13, 14, 16w, 27	12, 13, 16, 17, 27
16	2.38, m	42.6	15, 17w, 27	14,15, 27	14, 15, 17, 18, 27
17	3.10, t (6.6)	75.2	16, 18	16w, 18w 27	15, 16, 18, 27
17OH					
18	2.68, dd (5.8, 1.9)	60.6	17, 19w	17, 19, 20, 28	17, 19w, 20w
19	2.86, dd (8.2, 2.3)	59.6	18w, 20	20w, 28	17w, 18w, 20, 21w
20	1.27, ddd (8.2, 6.9, 4.1)	39.3	19, 28	18, 21, 22’, 22’’, 28	19, 28w
21	3.14, td (6.3, 4.1)	83.5	20, 22’, 22’’	20, 22’, 22’’, 23, 28	19, 20w, 22w, 23, 28, 31
22’	1.63, m	23.8	21, 22’’, 23	22’’, 23w	20, 21, 23
22’’	1.39, m		21, 22’, 23	22’, 23	20, 21, 23
23	0.84, t (7.5)	10.0	22’, 22’’	21, 22’, 22’’	21, 22
24	1.11, s	24.8		2’’	5, 6, 7
25	0.73, d (6.8)	16.5	10	10	9, 10, 11
26	1.60, s	11.9	13	10, 14	11, 12, 13
27	1.15, d (6.7)	17.1	16	15, 16, 17	15, 16, 17
28	0.85, d (7.8)	10.6	20	20, 21	19, 20
29		169.1			
30	1.66, s	20.8			29
31	3.25, s	57.7		21, 22’, 23, 24	21

[a] Position numbering is provided in Supporting Figure S2.

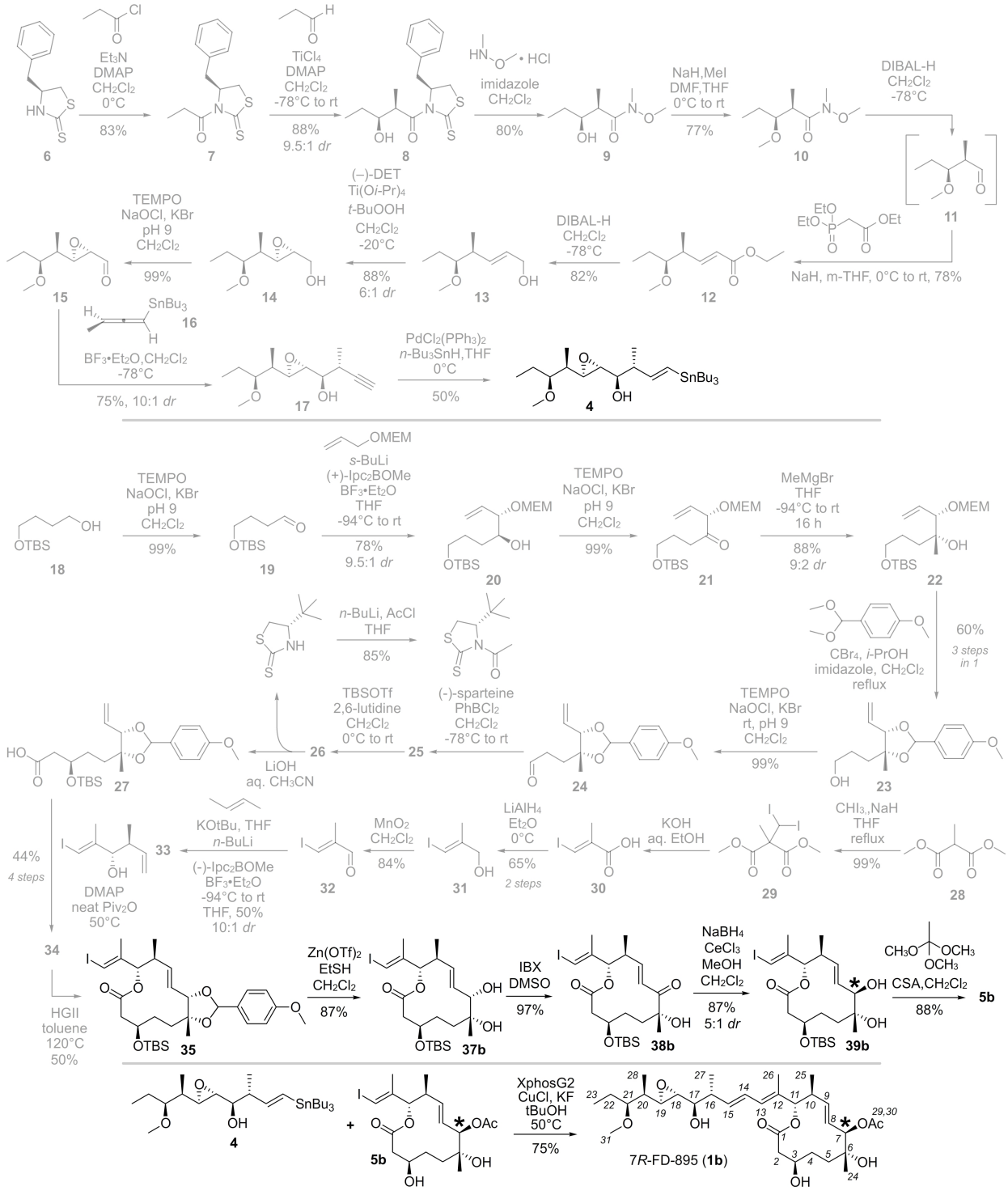


Figure S3. Synthesis of 7*R*-FD-895 (**1b**) from core **5b,** prepared in 4 steps from intermediate **35**, and side chain **4.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1b** are shown in black. Experimental procedures are provided for these (black) steps.

Table S3. NMR data for 7*R*-FD-895 (1b) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.3			
2’	2.35, m	39.0	2’, 3	3, 4’’w, 5’	1, 3, 4
2’’	2.29, dd (14.6, 3.1)		2’’, 3	3, 4’’, 5’	1, 3, 4
3	3.57, bs	69.6	3OH, 4’	2’, 2’’, 4’, 4’’w, 5’w, 5’’, 24	N/A
3OH	3.67, d (10.6)		3	4’, 5’’	conformers
4’	1.66, m	30.6	3, 4’’, 5’, 5’’	3, 3OH, 5’, 5’’, 7w	conformers
4’’	1.82, m		3, 4’, 5’, 5’’	3w, 5’, 5’’, 7w	2
5’	1.58, m	36.5	4’, 4’’, 5’’	4’	conformers
5’’	0.95, m		4’, 4’’, 5’	4’’	conformers
6		73.8			
6OH					
7	5.40, m	77.9	8	4’, 8, 10, 15, 24, 27w	5, 6, 8, 9, 29
8	5.92, dd (15.4, 2.3)	128.0	7, 9	7, 9, 10, 11, 13w, 14w, 15w, 22	7, 10
9	5.38, m	130.7	8, 10	4’, 8, 10, 11, 15, 18, 25	7, 10
10	2.47, tq (10.1, 6.7)	41.0	11, 25	8, 9, 25, 26	8, 9, 11, 25
11	5.36, d (10.7)	82.9	10	4’, 8, 10, 13, 25	1, 9, 10, 12w, 13, 25, 26
12		131.9			
13	6.15, d (10.9)	131.5	14, 26w	8, 9, 11, 15, 28	11, 15, 26
14	6.26, dd (15.0, 10.8)	126.2	13, 15	15, 16, 22’, 26, 27	12, 13, 16
15	5.50, dd (15.0, 8.7)	138.2	14, 16	8w, 13, 14, 16, 17, 18w, 27	13, 16, 17, 27
16	2.37, m	42.7	15, 17, 26	14, 15, 27	14, 15, 17, 18, 27
17	3.06, t (6.6)	75.3	16, 18	16w, 19, 27	15, 16, 18, 19, 27
17OH					
18	2.65, dd (5.7, 2.2)	60.7	17	10, 15, 16, 19, 20, 27w, 28w	17, 19, 20w
19	2.85, dd (8.2, 2.3)	59.7	20	10w, 16w, 17w, 18, 20w, 21w, 22’w, 28	18, 20, 28
20	1.30, m	39.4	19, 28	18, 23, 28	18, 19, 27, 28
21	3.14, td (6.3, 4.0)	83.6	20, 22’, 22’’	19, 20, 22’, 22’’w, 23, 28	19w, 20, 23, 28, 31
22’	1.57, m	23.8	23	21, 22β, 23	20, 21, 23
22’’	1.36, m		23	21, 22α, 23	20, 21, 23
23	0.84, t (7.5)	10.0	22’, 22’’	21, 22’, 22’’	21, 22
24	1.00, s	24.7		3OH, 5’, 5’’, 7	5, 6, 7
25	0.76, d (6.8)	17.1	10	9, 10, 11, 20, 26	9, 10, 11
26	1.62, bs	11.5		10, 11, 14	11, 12, 13, 14, 15
27	1.12, d (6.8)	16.9	16	14, 15, 16, 17w	15, 16, 17
28	0.84, d (7.0)	10.6	20	19, 21	19, 20, 21
29		169.2			
30	1.67, s	20.4			29
31	3.24, s	57.8		19, 21, 22’, 23, 28	21

[a] Position numbering is provided in Supporting Figure S3.

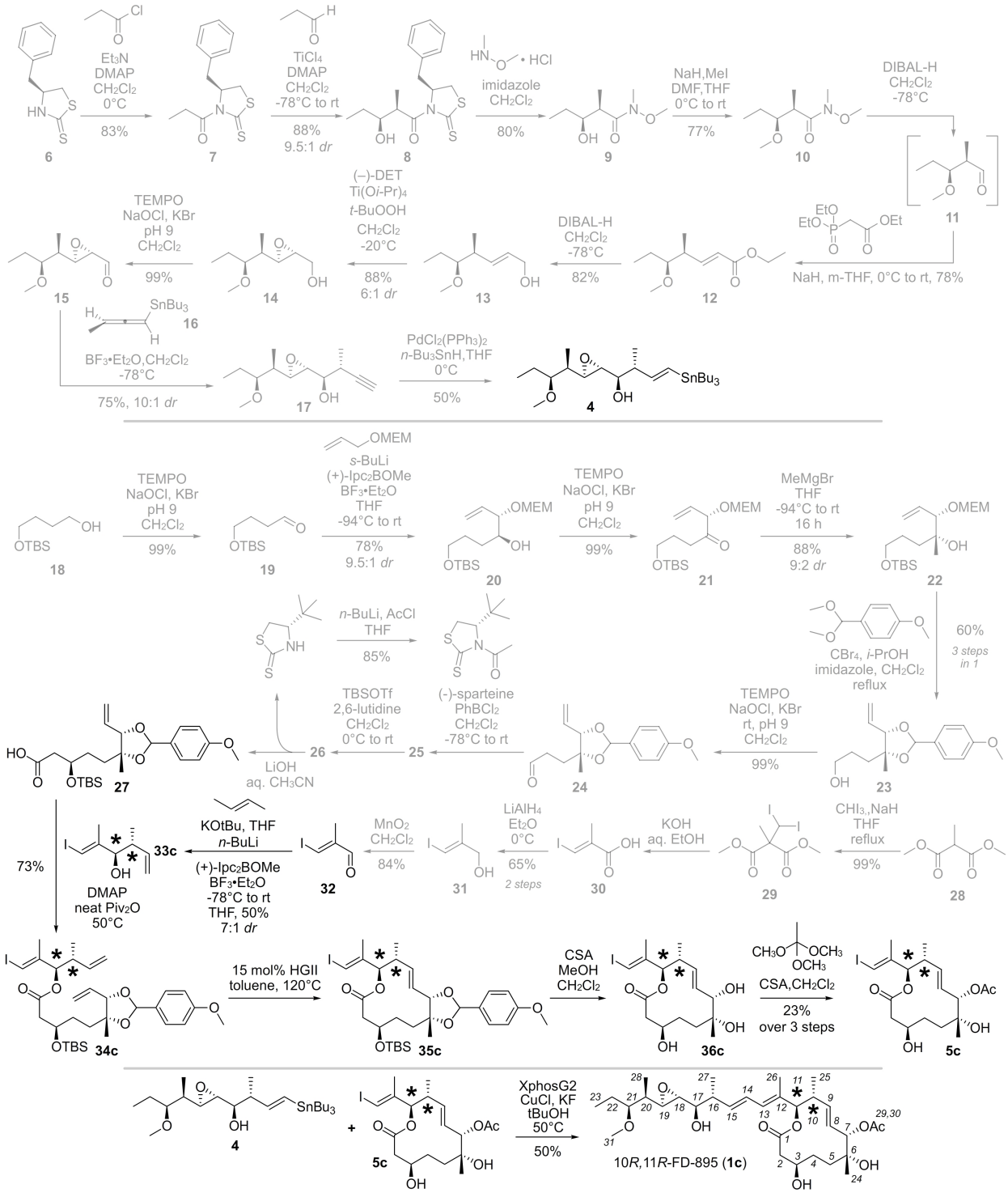


Figure S4. Synthesis of 10*R*,11*R*-FD-895 (**1c**) from core **5c,** prepared in 5 steps from **25** and **32**, and side chain **4.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1c** are shown in black. Experimental procedures are provided for these (black) steps

Table S4. NMR data for 10*R*,11*R* -FD-895 (1c) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		169.6			
2’	2.38, m	40.1	2’, 3	3w, 5’	1, 3, 4
2’’	2.25, dd (13.3, 5.3)		2’, 3	3	1, 3, 4
3	4.14, m	67.8	2’, 2’’w	2’w, 2’’, 4’, 4’’, 5’w, 24	
3OH					
4’	1.29, m	27.5	3, 4’’, 5’, 5’’	3, 4’’, 5’, 5’’	5, 3
4’’	1.20, m		3w, 4’, 5’, 5’’	3, 4’, 5’, 5’’, 24	5
5’	1.83, m	30.7	4’, 4’’, 5’’	2’, 4’, 4’’, 8, 25	3w, 4, 6, 7w, 24
5’’	1.75, dt (13.4, 6.7)		4’, 4’’, 5’	4’, 4’’, 24	3w, 4, 6, 7, 24, 30
6		73.5			
6OH	1.75, s				
7	5.23, d (9.8)	79.3	8	4’, 8w, 9, 24	8, 9, 24w, 29
8	5.90, dd (15.2, 9.8)	126.6	7, 9, 10w	5’, 7, 9, 10	6, 10
9	5.58, dd (15.3, 10.0)	140.3	8, 10	4’, 7, 8, 10, 11, 25	7, 10
10	2.43, m	41.2	11, 25	8, 9, 11, 25, 26	8, 9, 11, 25
11	5.18, d (10.8)	82.1	10	9, 10w, 13, 25, 26w	1, 9, 10, 12, 13, 25, 26
12		132.2			
13	6.17, d (10.8)	131.3	14, 26w	9, 11, 15, 25, 26	11, 15, 26
14	6.27, dd (15.1, 10.8)	126.5	13, 15	15, 16, 26, 27	12, 13, 16
15	5.53, dd (15.1, 8.8)	137.8	14, 16	13, 14, 16, 17, 18w, 27	13, 16, 17
16	2.36, m	42.8	15, 17, 27	14, 15, 17, 18, 27	14, 15, 17, 18, 27
17	3.12, m	74.8	16, 18	15, 16, 18, 19, 27	15w, 16, 19, 25
17OH	1.55, bs				
18	2.69, dd (5.1, 2.2)	60.3	17, 19w	14w, 15, 16, 17, 19, 20, 27, 28	17, 19, 20
19	2.90, dd (8.1, 2.3)	59.4	18w, 20	17, 18w, 20, 22’w, 28	17w, 18, 20, 21w
20	1.31, m	39.2	19, 28	19, 21, 28	19, 23
21	3.14, m	83.6	20, 22’, 22’’	20, 22’, 22’’, 23	19, 20, 22w, 23, 28 31
22’	1.60, m	23.9	21, 22’’, 23	21, 22’’, 23	20, 21, 23
22’’	1.39, m		21, 22’, 23	19w, 21, 22’, 23, 31	20, 21, 23
23	0.84, t (7.5)	10.1	22’, 22’’	20, 21, 22’, 22’’, 31w	21, 22
24	1.06, s	24.8		4’w, 4’’, 5’w, 5’’, 7	5, 6, 7
25	0.72, d (6.7)	16.5	10	5’, 9, 10, 11,13, 26	9, 10, 11
26	1.58, s	12.0	13	10, 14, 25w	11, 12, 13, 14
27	1.11, d (6.8)	16.9	16	14, 15, 16, 17, 18w	15, 16, 17
28	0.87, d (7.0)	10.5	20	18, 19, 20, 21, 22’	19, 20, 21
29		169.2			
30	1.63, s	20.8			29
31	3.24, s	57.7		19w, 21, 22’’, 23	21

[a] Position numbering is provided in Supporting Figure S4.

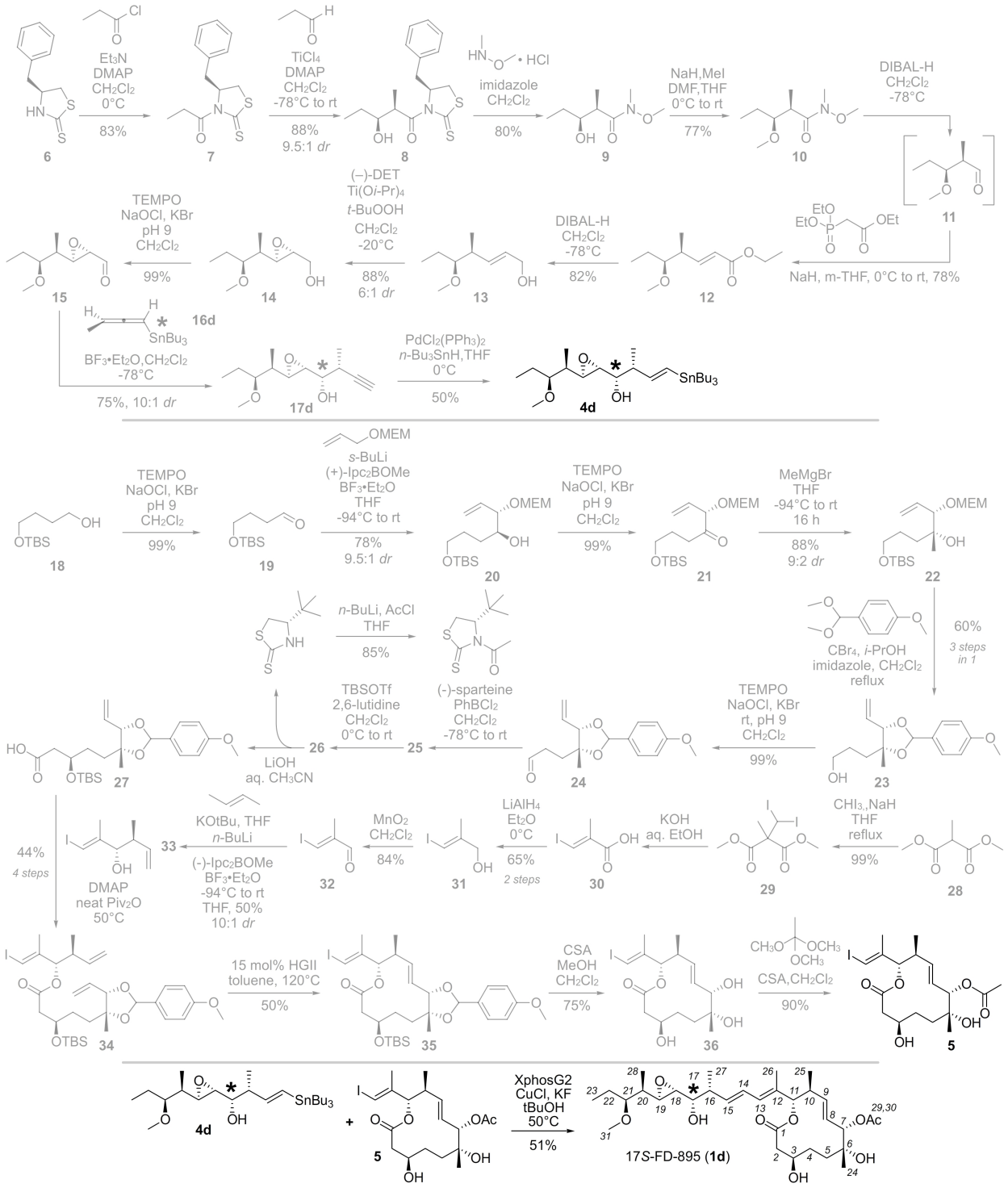


Figure S5. Synthesis of **17*S*-FD-895 (1d)** from core **5** and side chain **4d.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1d** are shown in black. Experimental procedures are provided for these (black) steps

Table S5. NMR data for 17*S*-FD-895 (1d) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		171.8			
2’	2.29, dd (14.8, 3.9)	38.2	2’, 3	3, 3OHw, 4’/5’w	3
2’’	2.19, dd (14.8, 3.0)		2’’, 3	3, 4’/5’	1
3	3.49, td (11.1, 3.5)	69.0	3OH, 4’w, 4’’	2’, 2'', 3OH, 4’/5’, 5’’	
3OH	3.63, d (11.2)		3	2’, 3, 4’’, 6OH	3
4’	1.57, m	30.0	3w, 4’’, 5’, 5’’	2’’, 3, 5’’, 24	
4’’	1.25, m		3, 4’, 5’, 5’’	3OHw, 5’, 7, 9, 24w	3w
5’	1.55, m	35.5	3, 4’’	2’’, 3OH, 4’’, 6OH, 8	
5’’	1.20, m		5’	3, 4’, 7w, 24	4w, 6w, 7w
6		72.5			
6OH	1.75, s			3OH, 5’’w, 7w, 8, 24	5, 6, 17
7	5.26, d (1.5)	78.8	8	4’’, 8, 9w, 24	8, 29
8	5.83, dd (15.2, 9.8)	140.3	7, 9	4’/5’, 7, 9, 10w, 25	7, 10w
9	5.62, dd (15.2, 10.0)	126.0	8, 10	4’/5’, 7, 8, 10, 25	10, 25w
10	2.39, m	40.8	9, 11, 25	7w, 8, 9w, 11w, 25, 26	11
11	5.24, d (2.4)	82.2	10	9, 10, 13, 25, 26	1, 12, 13, 26
12		131.0			
13	6.11, d (10.7)	131.4	14, 26w	11, 14, 15, 25, 26w	11, 14w, 15, 26
14	6.26, dd (15.2, 10.8)	126.1	13, 15	13, 15, 16, 26, 27w	12w, 13w
15	5.80, dd (15.2, 8.3)	137.6	14, 16	13, 14, 27	12, 13, 14, 16, 27
16	2.36, m	41.2	15, 17, 27	14, 17, 27	15
17	3.42, q (3.7)	73.0	16, 17OH, 18	15, 16, 17OH, 18, 19, 27	
17OH	1.55, bs			17, 19	16, 17
18	2.56, dd (3.8, 2.2)	57.3	17, 19w	15w, 16, 17, 19w, 20, 27, 28	
19	3.01, dd (8.3, 2.3)	59.3	18, 20	15w, 17, 17OH, 18w, 20, 21, 28	20
20	1.33, m	38.9	19, 21, 28	18, 19w, 21, 23, 28	
21	3.15, m	83.4	22’, 22’’	19, 20, 22’, 22’’, 23	19, 28
22’	1.63, m	23.5	21, 23	21w, 22’’, 23	20w, 21, 23
22’’	1.40, dt (14.0, 6.9)		21, 23	21w, 22’, 23	20w, 21, 23
23	0.85, t (7.5)	9.7	22’, 22’’	20, 21, 22’, 22’’	21, 22
24	1.00, s	24.4		4’/5’, 4’’w, 5’’, 6OH, 7	5, 6 ,7
25	0.70, d (6.7)	16.1	10	7, 9, 10, 13, 26	8, 10, 11
26	1.59, d (1.3)	11.5	13	10, 11w, 14, 25	11, 12, 13, 14w, 15w
27	1.12, d (7.0)	16.9	16	9, 14, 15, 16, 17, 18	15, 16, 17
28	0.88, d (6.9)	10.5	20	18, 19, 20, 21	19, 20, 21
29		168.7			
30	1.61, s	20.4			29
31	3.23, s	57.4		21, 22’, 22’’, 23	21

[a] Position numbering is provided in Supporting Figure S5.

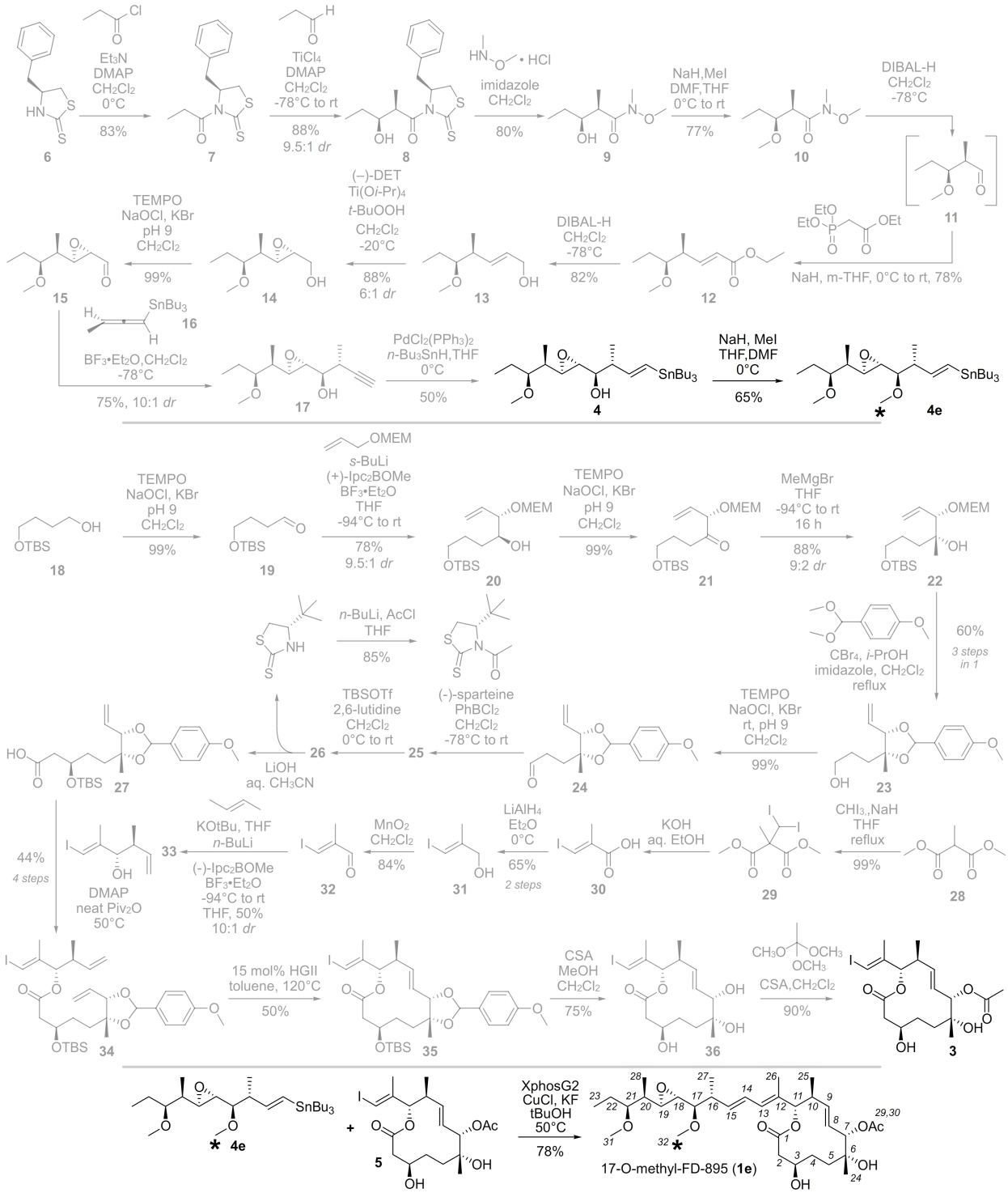


Figure S6. Synthesis of 17-O-methyl-FD-895 (**1e**) from core **5** and side chain **4e,** prepared in 1 step from **4.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1e** are shown in black. Experimental procedures are provided for these (black) steps.

Table S6. NMR data for 17-O-Me-FD-895 (1e) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.1			
2’	2.29, dd (14.8, 3.8)	38.6	2’’, 3	3, 4’w	1, 3, 4w
2’’	2.20, dd (14.8, 3.0)		2’, 3	3, 5’	1
3	3.48, m	69.3	2’w, 2’’w, 3OH, 4’’	2’, 2’’, 4’, 5’’	
3OH	3.62, d (11.1)		3	3, 6OH	
4’	1.57, m	30.4	3, 4’’, 5’, 5’’	3, 5’’, 7, 8	5, 6, 3, 24
4’’	1.26, m		4’, 5’, 5’’	2’’, 3, 5’’, 9	3
5’	1.54, m	35.9	4’, 4’’, 5’’	2’’, 4’’, 8	4, 6, 24
5’’	1.18, m		4’, 4’’, 5’	4’	6, 7
6		73.6			
6OH	1.77, s				
7	5.24, d (5.5)	79.2	8	4’’/5’’, 8, 9, 24w, 26	8w, 9, 24w, 29
8	5.82, dd (15.2, 9.8)	126.4	7, 9	4’/5’, 7w, 9, 10, 13w	6w, 9w, 10
9	5.62, dd (15.1, 10.9)	140.7	8, 10	4’’/5’’, 7, 8, 10, 11, 25	7, 8w, 10, 25
10	2.39, tq (10.4, 6.8)	41.1	9, 11, 25	8, 9w, 25, 26	8, 9w, 11, 12, 25
11	5.26, d (6.3)	82.6	10	10, 13, 25, 26	1, 9, 10, 13, 25w, 26
12		131.7			
13	6.12, dd (10.9, 1.5)	131.4	14, 26	8w, 11, 14, 15, 25, 26w	11, 15, 26
14	6.23, ddd (15.1, 10.9, 1.04)	125.7	13, 15	8w, 13, 15, 16, 26	13w, 16
15	5.64, dd (15.2, 10.2)	138.7	14, 16	13, 14, 16, 17	12, 13, 14w, 16, 27
16	2.48, dq (14.4, 7.0)	42.6	15, 17, 27	14, 15, 17w, 27w, 32w	14, 15, 17, 18, 27
17	2.62, t (7.1)	86.2	16, 18	15w, 16, 20, 32	15, 16, 18, 27, 32
17OH					
18	2.68, m	60.6	17	15, 16, 20, 32	17, 19w, 20
19	2.68, m	59.1	20	17, 20, 28w,	20, 21w
20	1.22, m	39.6	19, 28	17w, 21w, 22’, 22’’	19
21	3.20, m	83.5	20, 22’, 22’’	20, 22’, 22’’, 23	19w, 20w, 23w
22’	1.64, m	23.7	21w, 22’’, 23	21, 22’’	20, 21, 23
22’’	1.37, dp (17.0, 6.7, 6.1)		22’, 23	21, 22’	20, 21, 23
23	0.82, t (7.4)	10.0	22’, 22’’	20, 21, 22’w, 22’’w	21, 22
24	1.01, s	24.8		4’/5’, 7	5, 6, 7
25	0.71, d (6.8)	16.4	10	9w, 10, 11w, 13, 26	9, 10, 11
26	1.59, d (1.3)	11.8	13	8, 10, 11, 14, 25	11, 12, 13, 14w, 15w
27	1.14, d (6.8)	17.0	16	14, 15, 16, 17	15, 16, 17
28	0.87, d (7.1)	10.8	20	22’, 22’’	19, 20, 21
29		169.0			
30	1.61, s	20.7			29
31	3.25, s	57.7		20w, 22’, 22’’w, 23w, 26w, 32	21
32	3.50, s	58.5		6OH, 17, 31w	17

[a] Position numbering is provided in Supporting Figure S6.

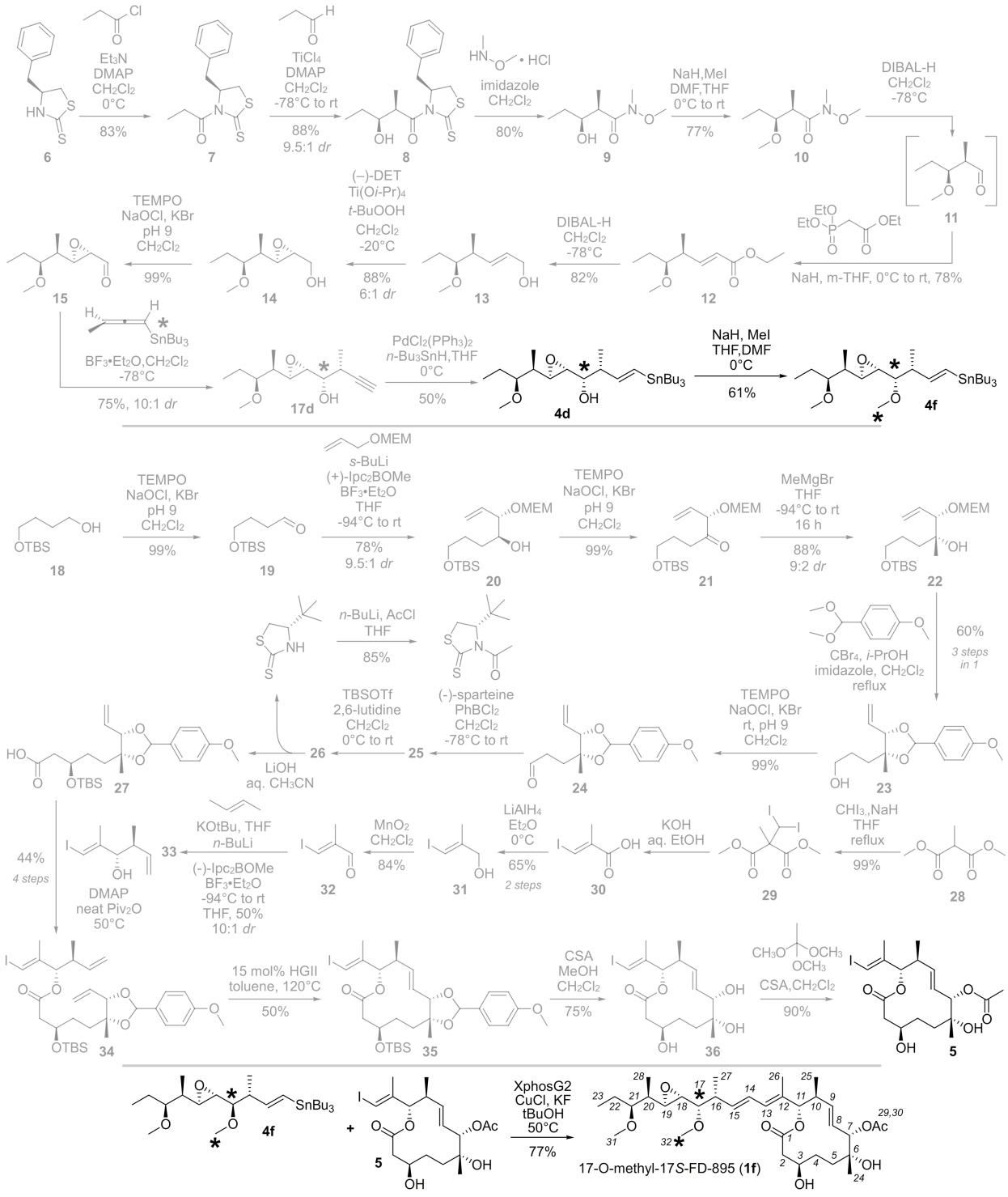


Figure S7. Synthesis of 17-O-methyl-17*S*-FD-895 **(1f)** from core **5** and side chain **4f**, prepared from **4d.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1f** are shown in black. Experimental procedures are provided for these (black) steps

Table S7. NMR data for 17*S*-O-Me-17*S*-FD-895 (1f) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.1			
2’	2.29, dd (14.8, 3.8)	38.6	2’’, 3	3, 4’w	1, 3, 4w
2’’	2.20, dd (14.8, 3.0)		2’, 3	3, 5’	1
3	3.48, m	69.3	2’w, 2’’w, 3OH, 4’’	2’, 2’’, 4’, 5’’	
3OH	3.62, d (11.1)		3	3, 6OH	
4’	1.57, m	30.4	3, 4’’, 5’, 5’’	3, 5’’, 7, 8	5, 6, 3, 24
4’’	1.26, m		4’, 5’, 5’’	2’’, 3, 5’’, 9	3
5’	1.54, m	35.9	4’, 4’’, 5’’	2’’, 4’’, 8	4, 6, 24
5’’	1.18, m		4’, 4’’, 5’	4’	6, 7
6		73.6			
6OH	1.77, s				
7	5.24, d (5.5)	79.2	8	4’’/5’’, 8, 9, 24w, 26	8w, 9, 24w, 29
8	5.82, dd (15.2, 9.8)	126.4	7, 9	4’/5’, 7w, 9, 10, 13w	6w, 9w, 10
9	5.62, dd (15.1, 10.9)	140.7	8, 10	4’’/5’’, 7, 8, 10, 11, 25	7, 8w, 10, 25
10	2.39, tq (10.4, 6.8)	41.1	9, 11, 25	8, 9w, 25, 26	8, 9w, 11, 12, 25
11	5.26, d (6.3)	82.6	10	10, 13, 25, 26	1, 9, 10, 13, 25w, 26
12		131.7			
13	6.12, dd (10.9, 1.5)	131.4	14, 26	8w, 11, 14, 15, 25, 26w	11, 15, 26
14	6.23, ddd (15.1, 10.9, 1.04)	125.7	13, 15	8w, 13, 15, 16, 26	13w, 16
15	5.64, dd (15.2, 10.2)	138.7	14, 16	13, 14, 16, 17	12, 13, 14w, 16, 27
16	2.48, dq (14.4, 7.0)	42.6	15, 17, 27	14, 15, 17w, 27w, 32w	14, 15, 17, 18, 27
17	2.62, t (7.1)	86.2	16, 18	15w, 16, 20, 32	15, 16, 18, 27, 32
17OH					
18	2.68, m	60.6	17	15, 16, 20, 32	17, 19w, 20
19	2.68, m	59.1	20	17, 20, 28w,	20, 21w
20	1.22, m	39.6	19, 28	17w, 21w, 22’, 22’’	19
21	3.20, m	83.5	20, 22’, 22’’	20, 22’, 22’’, 23	19w, 20w, 23w
22’	1.64, m	23.7	21w, 22’’, 23	21, 22’’	20, 21, 23
22’’	1.37, dp (17.0, 6.7, 6.1)		22’, 23	21, 22’	20, 21, 23
23	0.82, t (7.4)	10.0	22’, 22’’	20, 21, 22’w, 22’’w	21, 22
24	1.01, s	24.8		4’/5’, 7	5, 6, 7
25	0.71, d (6.8)	16.4	10	9w, 10, 11w, 13, 26	9, 10, 11
26	1.59, d (1.3)	11.8	13	8, 10, 11, 14, 25	11, 12, 13, 14w, 15w
27	1.14, d (6.8)	17.0	16	14, 15, 16, 17	15, 16, 17
28	0.87, d (7.1)	10.8	20	22’, 22’’	19, 20, 21
29		169.0			
30	1.61, s	20.7			29
31	3.25, s	57.7		20w, 22’, 22’’w, 23w, 26w, 32	21
32	3.50, s	58.5		6OH, 17, 31w	17

[a] Position numbering is provided in Supporting Figure S7.

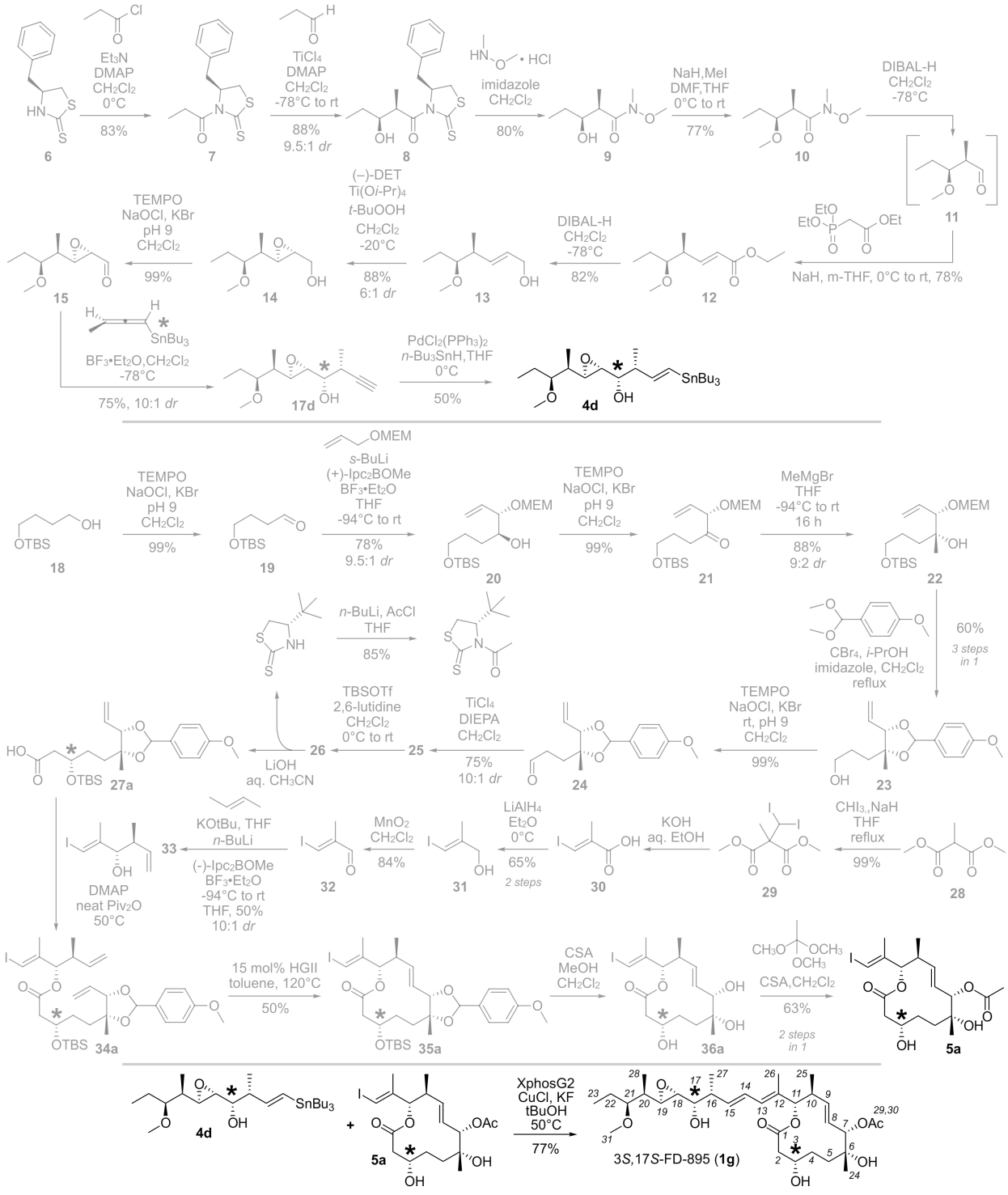


Figure S8. Synthesis of 3*S*,17*S*-FD-895 (**1g**) from core **5a** (see Section D) and side chain **4d** (see Section G). The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1g** are shown in black. Experimental procedures are provided for these (black) steps.

Stille coupling of stannane 4d and core 5a to afford 3*S*,17*S*-FD-895 (1g).

Table S8. NMR data for 3*S*,17*S*-FD-895 (**1g**) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C, Type	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		169.9			
2’	2.43, dd (13.3, 11.3)	40.2	2’’, 3	3w, 5’	1, 3, 4w
2’’	2.30, dd (13.1, 5.4)		2’, 3	3	1, 3, 4
3	4.20, m	67.8	2’, 2’’w	2’w, 2’’, 4’, 4’’	
3OH					
4’	1.34, m	27.6	4’’, 5’, 5’’	3, 5’’, 7	
4’’	1.29, m		3w, 4’, 5’w, 5’’w	3, 24	2, 3w, 5w
5’	1.85, td (13.4, 4.0)	30.9	4’, 4’’, 5’’	2’, 4’’, 8	4w, 6, 24w
5’’	1.78, td (13.6, 4.8)		4’, 4’’, 5’	4’, 4’’, 24	4, 6, 7, 24w
6		73.6			
6OH	1.92, bs			5’’, 24	
7	5.25, d (9.8)	79.3	8	4’, 8, 9, 24	8, 9, 29
8	5.91, dd (15.2, 9.8)	126.5	7, 9, 10w	5’, 7, 9, 10	6w, 10
9	5.61, dd (15.2, 10.0)	140.5	8, 10	4’, 7, 8, 10w, 25	7, 10, 25w
10	2.47, m	41.3	9, 11, 25	8w, 25, 26	8, 9, 11, 25w
11	5.20, d (10.6)	82.3	10	9, 10w, 13, 25, 26w	1, 9w, 10, 12, 13, 26
12		131.6			
13	6.19, d (10.9, 1.5)	131.8	14, 26w	11, 15, 25w	11, 15, 26
14	6.27, ddd (15.1, 10.8, 1.0)	126.6	13, 15	15, 16, 26, 27	12, 13, 16
15	5.81, dd (15.0, 8.4)	137.6	14, 16	14, 16, 27	12, 13, 16, 17w, 27
16	2.36, m	41.5	15, 17w, 27	14, 15, 17, 27	14, 15, 17w, 18w, 27
17	3.44, t (3.4)	73.0	16, 18	15, 16, 18, 19, 27	15, 16w, 18, 19, 27w
17OH					
18	2.57, dd (3.8, 2.2)	59.7	17, 19	17, 20, 27, 28	17w
19	3.02, dd (8.2, 2.3)	57.7	18, 20	17, 20w, 28	20
20	1.33, m	39.2	19, 21, 28	18, 21, 28	18w, 19, 21w, 28w
21	3.14, td (6.2, 4.4)	83.8	20, 22’, 22’’	20, 22’w, 22’’, 23	19, 20w, 23
22’	1.63, m	23.9	21, 22’’, 23	21w, 22’’, 23	20, 21
22’’	1.41, m		21, 22’, 23	22’, 23	20, 21, 23
23	0.86, t (7.4)	10.2	22’, 22’’	20, 21, 22’, 22’’	21, 22
24	1.08, s	24.8		5’’, 7	5, 6, 7
25	0.73, d (6.8)	16.5	10	9, 10, 11	9, 10, 11
26	1.61, d (1.3)	12.0	13	10, 14	11, 12, 13
27	1.12, d (7.0)	17.3	16	14, 15, 16, 17, 18w	15, 16, 17
28	0.89, d (7.0)	10.9	20	18w, 19w, 20, 22’	19, 20, 21
29		169.4			
30	1.64, s	20.9			29
31	3.23, s	57.7		19w, 21, 22’’, 23	21

[a] Position numbering is provided in Supporting Figure S8.

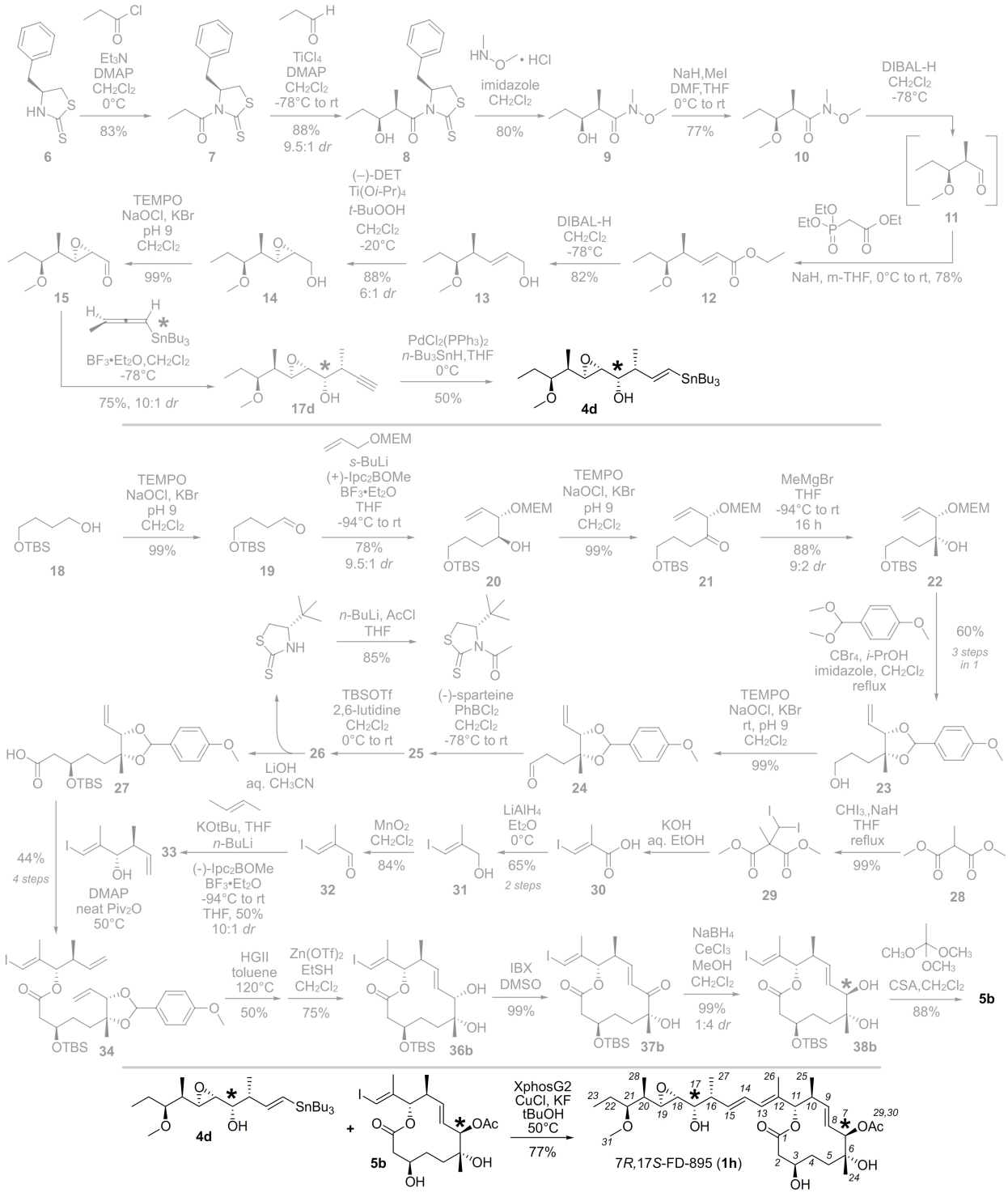


Figure S9. Synthesis 7*R*,17*S*-FD-895 (**1h**) from core **5b** (Section E) and side chain **4d** (Section G). The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1h** are shown in black. Experimental procedures are provided for these (black) steps

Table S9. NMR data for 7*R*,17*S* -FD-895 (**1h**) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1	4.65, d (9.3)	172.3			
2’	2.35, m	39.3	2’, 3	3, 4’’w	1, 3, 4
2’’	2.30, dd (14.6, 3.2)		2’’, 3	3, 4’’	1, 3, 4w
3	3.58, ddt (10.8, 7.4,	69.6	2’’,w3OH, 4’, 4’’w	3OH, 4’’, 17OH, 24w	
3OH	3.70, d (10.7)		3	2’., 2’’, 3, 17OH, 24	2w, 3
4’	1.80, m	30.6	3, 4’’, 5’, 5’’	3OHw, 5’, 7w, 24	conformers
4’’	1.62, m		3w, 4’, 5’, 5’’	2’w, 5’’	conformers
5’	1.58, m	36.5	4’w , 4’’, 5’’	4’, 5’’	conformers
5’’	0.97, m		4’, 4’’, 5’	3w, 4’’	conformers
6		73.8			
6OH	1.68, bs			3OH, 24	
7	5.41, m	82.9	8	8, 10w, 24, 26	5, 6, 8, 9, 14, 29
8	5.93, dd (15.3, 2.5)	127.9	7, 9	4’’/ 5’, 7, 9, 10	7, 10
9	5.39, m	130.7	8, 10	4’, 8, 10, 25	7, 8, 10
10	2.48, tq (10.3, 6.7)	41.1	11, 25	8, 9w, 25, 26	8, 9, 11, 25w
11	5.36, d (10.6)	78.0	10	10w, 13, 25, 26w	1, 10, 12, 13, 26
12		131.6			
13	6.17, d (10.7)	131.6	14, 26w	11, 14, 15, 16, 25, 26w	11, 15, 26
14	6.29, dd (15.1, 10.8)	126.4	13, 15	15, 16, 26, 27	12, 13, 16
15	5.80, dd (15.1, 8.4)	137.8	14, 16	13, 14, 16, 17w, 27	12, 13,14, 10w, 17w, 27w
16	2.38, m	41.5	15, 17, 27	14, 15w, 17, 18, 27	14, 15, 17, 18
17	3.43, m	72.8	16, 17OH, 18	15, 16, 17OH, 18, 19, 27	15, 18, 19
17OH	1.67, m		17	3, 3OH, 24	
18	2.57, dd (3.8, 2.3)	59.6	17	15, 17, 20, 27, 28	17
19	3.02, dd (8.2, 2.2)	57.6	20	17, 17OH, 20, 28	17w, 18w, 20, 21w, 23w
20	1.33, m	39.0	19, 28	18, 21, 23	19, 28
21	3.15, m	83.7	20, 22’, 22’’	22’, 22’’, 23	19, 20, 22w, 23
22’	1.63, m	23.8	21, 22’’, 23	20w, 22’’	20, 21, 23
22’’	1.40, dp (14.2, 7.3)		21, 22’, 23	22’, 23	20, 21, 23
23	0.85, t (7.4)	10.0	22’, 22’’	20, 21, 22’w, 22’’	21, 22
24	1.02, s	24.7		3, 3OH, 6OH, 7, 17OH	5, 6, 7
25	0.77, d (6.8)	16.9	10	9, 10, 11, 26w	9, 10, 11
26	1.64, d (1.2)	11.9		10, 14	11, 12, 13
27	1.12, d (7.0)	17.3	16	14w, 15w, 16, 17	15, 16, 17
28	0.89, d (7.0)	10.8	20	18, 19, 20, 21	19, 20, 21
29		169.3			
30	1.68, s	20.4			29
31	3.24, s	57.7		22’, 22’’, 23	21

[a] Position numbering is provided in Supporting Figure S9.

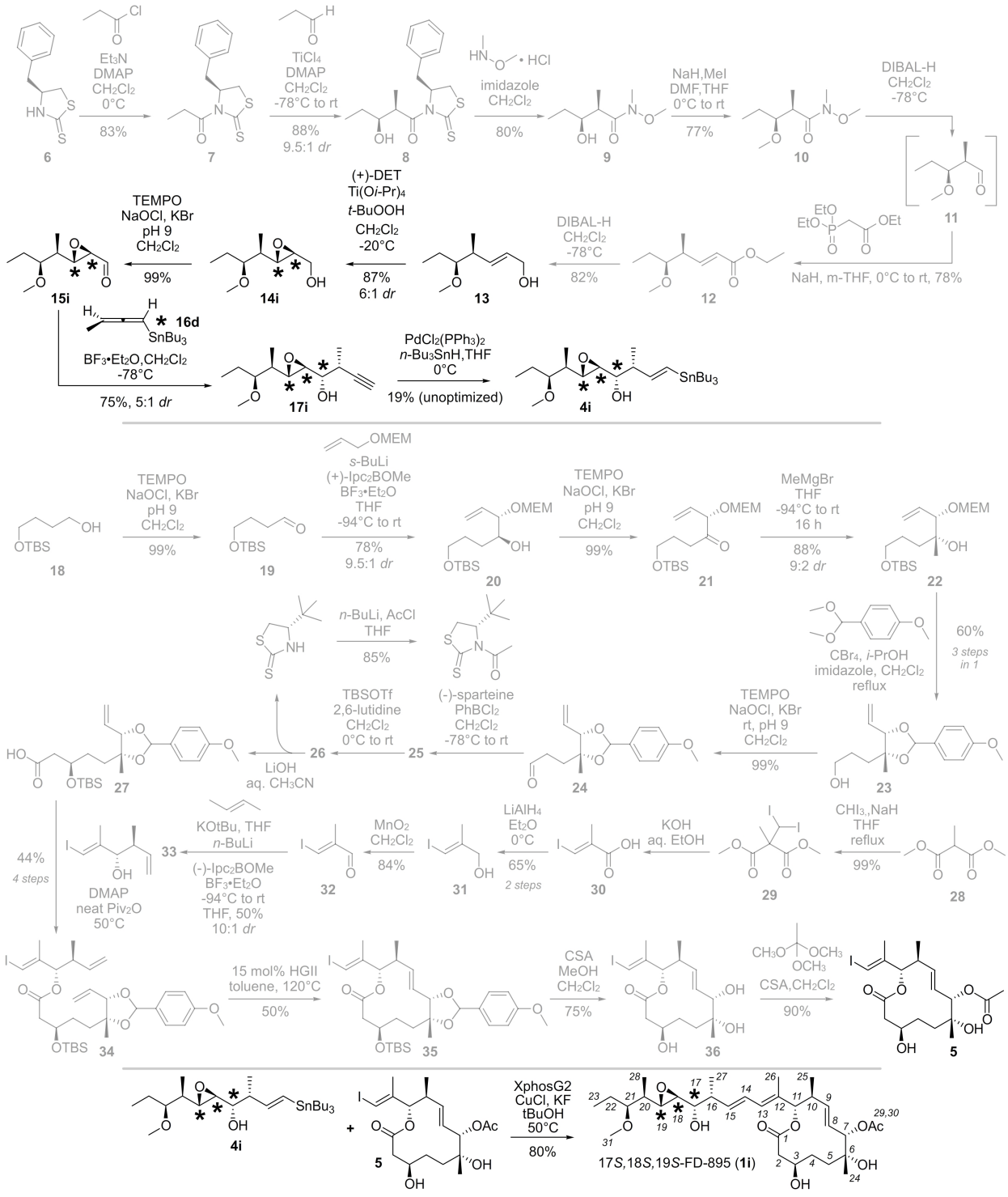


Figure S10. Synthesis of **17*S*,18*S*,19*S*-FD-895 (1i)** from core **5** and side chain **4i,** prepared in 4 steps from **13.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1i** are shown in black. Experimental procedures are provided for these (black) steps.

Table S10. NMR data for 17*S*,18*S*,19*S*-FD-895 (**1i**) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.1			
2’	2.31, dd (14.8, 3.8)	38.5	2’, 3	3w	1, 3, 4
2’’	2.22, dd (14.8, 2.8)		2’’, 3	3w, 4’/5’	1
3	3.52, m	69.3	2’, 2’’, 4’w, 4’’	2’’, 4’/5’w, 5’’	
3OH			3	3, 24, 30	
4’	1.58, m	30.2	4’’, 5’, 5’’	2’’, 5’’, 24	3w, 4w, 6, 24
4’’	1.33, m		3, 4’	4’, 5’	3, 5
5’	1.55, m	35.8	4’w, 4’’, 5’’	2’’, 4’, 8w	4, 6, 24w
5’’	1.27, m		4’	7	4, 6, 7, 24w
6		73.3			
6OH				3OH, 24	
7	5.25, d (10.6)	79.2	8	4’/5’, 5’’, 8w, 9, 24	8, 9, 24, 29
8	5.83, dd (15.2, 9.8)	126.5	7, 9	4’/5’, 7, 9, 10	6w, 10
9	5.64, (15.2, 10.0)	140.6	8, 10	5’’, 8, 10, 11, 25	7, 10, 11w, 25w
10	2.41, m	41.0	9, 11, 25	7w, 8, 25, 26	8, 9, 11, 25
11	5.27, d (11.1)	82.6	10	10, 13, 25	1, 9, 10, 12/13, 25, 26
12		131.7			
13	6.17, d (10.9)	131.3	14, 26w	11, 14, 15, 25	11, 14, 15, 26
14	6.32, dd (15.1, 10.8)	126.1	13, 15	13, 15, 16, 26, 27	12, 13, 16
15	5.75, dd (15.1, 8.2)	138.4	14, 16	13, 14, 16, 17w, 18w, 27	12, z13, 16, 17, 27
16	2.44, m	41.8	15, 17, 27	14, 15, 17, 27	14, 15, 17, 18, 27
17	3.48, dd (6.6, 3.6)	72.6	16, 18	15, 16, 18, 19w, 27	15w, 16w, 19, 27w
17OH					
18	2.78, dd (3.6, 2.3)	59.2	17	15w, 16, 17, 20, 27, 28	17
19	3.01, dd (7.4, 2.2)	57.3	20	17, 20, 28	18w, 20, 28
20	1.52, m	38.0	19, 28	18, 19w, 21, 28	19, 28
21	2.83, dt (7.5, 4.6)	84.7	20w, 22’	20, 22’, 22’’w, 23, 28, 31	23, 31
22’	1.49, m	23.5	21, 22’’, 23	21w, 23w	20, 21, 23
22’’	1.38, m		23	21w, 23w	20w, 21w, 23
23	0.83, t (7.4)	10.6	22’, 22’’	21, 22’w, 22’’	21, 22
24	1.02, s	24.7		4’/ 5’, 7	5, 6, 7
25	0.72, d (6.8)	16.4	10	9, 10, 11, 26w	9, 10, 11
26	1.61, d (1.3)	11.8	13	10, 11w, 14	11, 12, 13, 15
27	1.20, d (6.9)	16.3	16	14, 15, 16, 17, 18w	15, 16, 17
28	1.02, d (6.9)	12.4	20	20, 21	19, 20, 21
29		169.1			
30	1.63, s	20.8			29
31	3.11, s	57.1		20, 21	21

[a] Position numbering is provided in Supporting Figure S10.

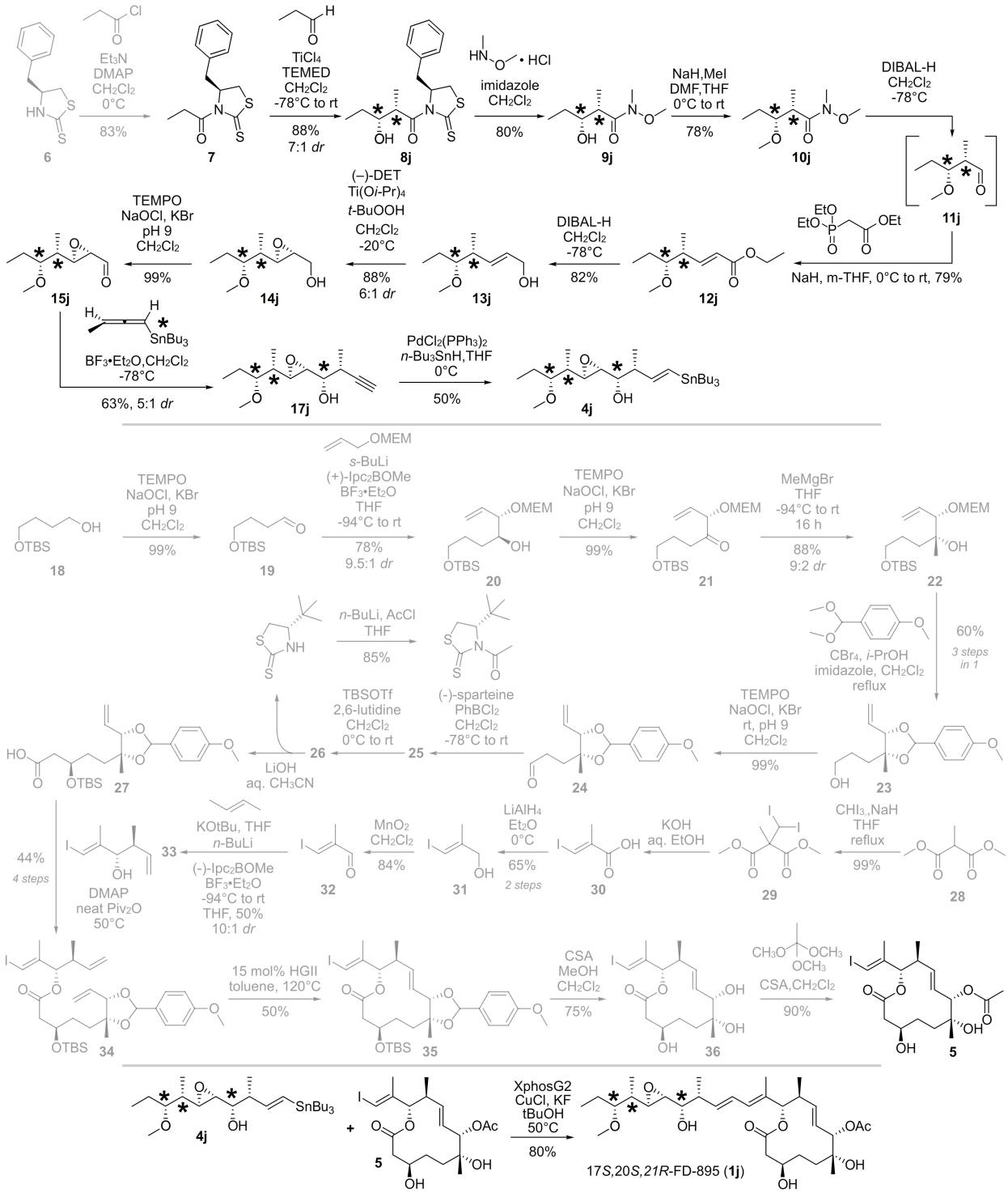


Figure S11. Synthesis of **17*S*,20*S*,21*S*-FD-895 (1j)** from core **3** and side chain **2j**, prepared in 10 steps from **7.** The entire synthetic pathway is shown using the methods and materials prepared in Chan *et al.* 2020.[25] In this publication, a central route was developed to enable preparation of analogues of FD-895 (**1**), these steps are shown in grey. Steps used specifically to prepare **1j** are shown in black. Experimental procedures are provided for these (black) steps.

Table S11. NMR data for 17*S*,20*S*,21*S*-FD-895 (1j) in C_6D_6

Position	δ_H, mult (*J* in Hz)	δ_C	^{1}H, ^{1}H-COSY	^{1}H, ^{1}H-NOESY	^{1}H, ^{13}C-HMBC
1		172.1			
2’	2.29, dd (14.8, 3.8)	38.2	3	3w	1, 3, 4
2’’	2.19, dd (14.8, 2.9)		3	3, 4’/5’	1
3	3.50, m	69.0	3OH, 4’’	2’, 4’/5’, 5’’	
3OH	3.62, bs		3w, 4’’	3	
4’	1.56, m	30.0	3, 4’’, 5’	2’’, 8w, 24	3w, 6, 24w
4’’	1.25, m		3, 4’, 5’’	5’, 7, 9, 24w	5
5’	1.54, m	35.6	4’, 4’’, 5’’	2’’, 4’’, 8w	3w, 4, 6, 24w
5’’	1.20, m		4’, 4’’, 5’	3, 4’, 7, 24w	4, 6w, 7w
6		73.4			
6OH					
7	5.24, d (6.6)	78.9	8	4’, 4’’, 8w, 9, 24	8, 9, 24w, 29
8	5.82, dd (15.2, 12.3)	126.2	7, 9	4’/5’, 7w, 9, 10	6w, 10
9	5.62, dd (15.2, 10.0)	140.5	8, 10	4’’, 8, 10, 11, 25	7, 10w, 25
10	2.38, m	41.0	9, 11, 25	8, 25, 26	11w, 25
11	5.26, d (7.5)	82.4	10	9, 10, 13, 25	1, 12, 26
12		131.4			
13	6.17, d (10.8)	131.4	14, 26	10w, 11, 14, 15, 25, 26w	11, 14, 15, 26
14	6.32 dd (15.2, 10.8)	126.2	13, 15	13, 15, 16, 26, 27	13, 16
15	5.83, dd (15.2, 10.4)	137.9	14, 16	13, 14, 16, 17w, 18w, 27	13, 16, 27w
16	2.44, tq (6.6, 6.3)	41.4	15, 17, 27	17w, 27	14, 15, 17, 18w, 27
17	3.36, t (4.9)	73.4	16, 18	15w, 16, 18, 19, 27	15w, 18
17OH					
18	2.74, dd (4.5, 2.3)	58.6	17, 19	16, 17, 20, 27, 28	17
19	2.95, dd (7.0, 2.3)	57.4	18, 20	17, 20, 28	20
20	1.55, m	37.8	19, 21, 28	18, 21, 28	19
21	2.84, dt (7.4, 4.7)	84.4	20, 22’, 22’’	20, 22’, 22’’, 23, 28, 31	19
22’	1.52, m	23.4	20, 21, 23	23w	23
22’’	1.38, m		20, 21, 23	20, 21w, 28	23
23	0.85, t (7.4)	10.2	22’, 22’’	21w, 22’, 22’’	21, 22
24	1.00, s	24.5		4’/5’, 7	5, 6, 7
25	0.70, d (6.7)	16.2	10	9, 10, 11, 13w	9, 10, 11
26	1.58, d (1.2)	11.6	13	10, 11, 14, 15, 25	11, 12, 13
27	1.14, d (6.9)	16.3	16	14, 15, 16, 17, 18w	15, 16, 17
28	1.02, d (7.5)	12.0	20	18w, 20, 21w	19, 20, 21
29		169.0			
30	1.61, s	20.4			29
31	3.11, s	56.9		20w, 21	21

[a] Position numbering is provided in Supporting Figure S11.

Table S12. GI_{50} values for 1 and analogues 1a-1j.[a]

Compound	GI_{50} value (nM)	95% confidence interval
FD-895 (**1**)	1.92	1.00 to 2.83
3*S*-FD-895 (**1a**)	2.75	1.45 to 4.04
7*R*-FD-895 (**1b**)	588.2	176.9 to 999.4
10*R*,11*R* -FD-895 (**1c**)	41300	26500 to 56100
17*S*-FD-895 (**1d**)	2.17	1.47 to 2.86
17-O-Me-FD-895 (**1e**)	2.64	1.10 to 4.18
17*S*-O-Me-17*S*-FD-895 (**1f**)	40.5	25.8 to 55.2
3*S*,17*S*-FD-895 (**1g**)	142.9	86.7 to 199.0
7*R*,17*S* -FD-895 (**1h**)	858.5	553.9 to 1163.0
17*S*,18*S*,19*S*-FD-895 (**1i**)	470.2	319.8 to 620.6
17*S*,20*S*,21*S*-FD-895 (**1j**)	285.2	178.6 to 391.8

[a] HCT-116 cells were treated with **1a** or analogues **1a-1e** ranging from 0.1 to 5000 nM for 72 h, then cell viability was measured by Cell Titer MTS Assay (see Methods).

Table S13. Sequences of the qPCR primers used in this study.

qPCR primers	
Primer	**5' Sequence 3'**
Aurora A FP	CCACCTTCGGCATCCTAATA
Aurora A RP	TCCAAGTGGTGCATATTCCA
PLK-1 FP	CTCAACACGCCTCATCCTC
PLK-1 RP	GTGCTCGCTCATGTAATTGC
Aurora B FP	GGAGAGCTTAAAATTGCAGATTTTG
Aurora B RP	TGCAGCTCTTCTGCAGCTCCT
PHF5a FP	GTTGCCATCGGAAGACTGT
PHF5a RP	GCCCCTGGTAAGATCCATAGT
SF3A1 FP	GGTGTTCCCAGAGAGCAGTAG
SF3A1 RP	GCTGGGGCCATGTCTGTTTT
Aurora A exon 3- exon 4 FP	AATTCTTCCCAGCGCATTC
Aurora A exon 3- exon 4 RP	TCCTCAGGATTATTTTCAGGTG
Aurora A exon 3- exon 7 FP	CTGCCATCGGCACCTGTATAT
Aurora A exon 3- exon 7 RP	GCATGTACTGACCACCCAAA
SF3B1 FP	GGGCTACTGATTTGGGGAGA
SF3B1 RP	CATGAACCATAGCCTGTCAGC
MCL-1 long FP	GTGCCTTTGTGGCTAAACACT
MCL-1 long RP	AGTCCCGTTTTGTCCTTACGA
MCL-1 short FP	GGCCTTCCAAGGATGGGTTT
MCL-1 short RP	ACTCCAGCAACACCTGCAAAA
DNAJB1 FP	GGCCTGATGGGTCTTATCTATGG
DNAJB1 RP	TTAGATGGAAGCTGGCTCAAGAG
ASF/SF2 FP	GAGTTCGAGGACCCGCGAG
ASF/SF2 RP	CGGCCGCTTCGAGGAAACTC
Aurora A FP	CCACCTTCGGCATCCTAATA
Aurora A RP	TCCAAGTGGTGCATATTCCA
PLK-1 FP	CTCAACACGCCTCATCCTC
PLK-1 RP	GTGCTCGCTCATGTAATTGC
FP: forward primer; RP reverse primer	

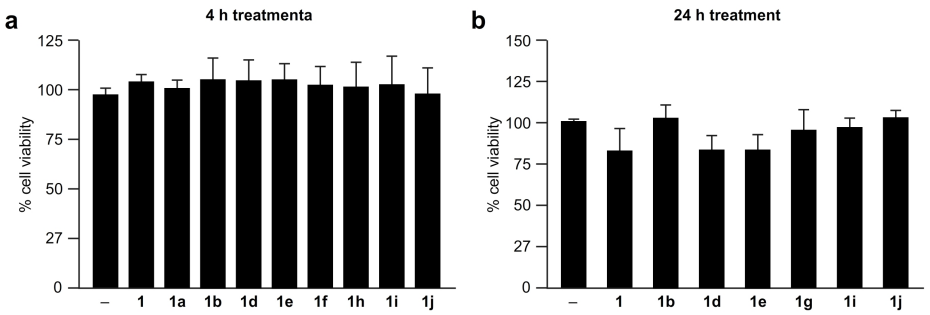
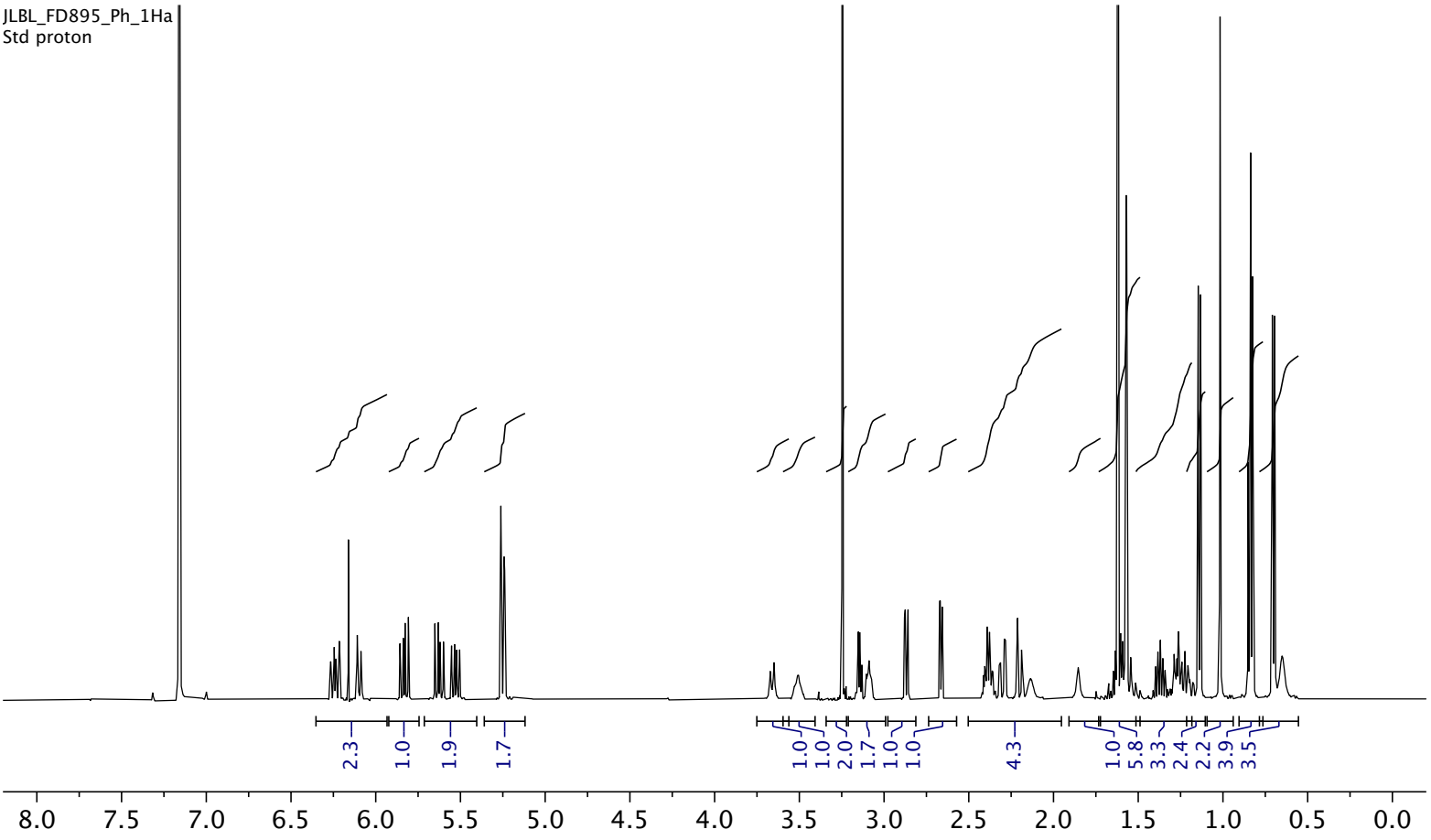
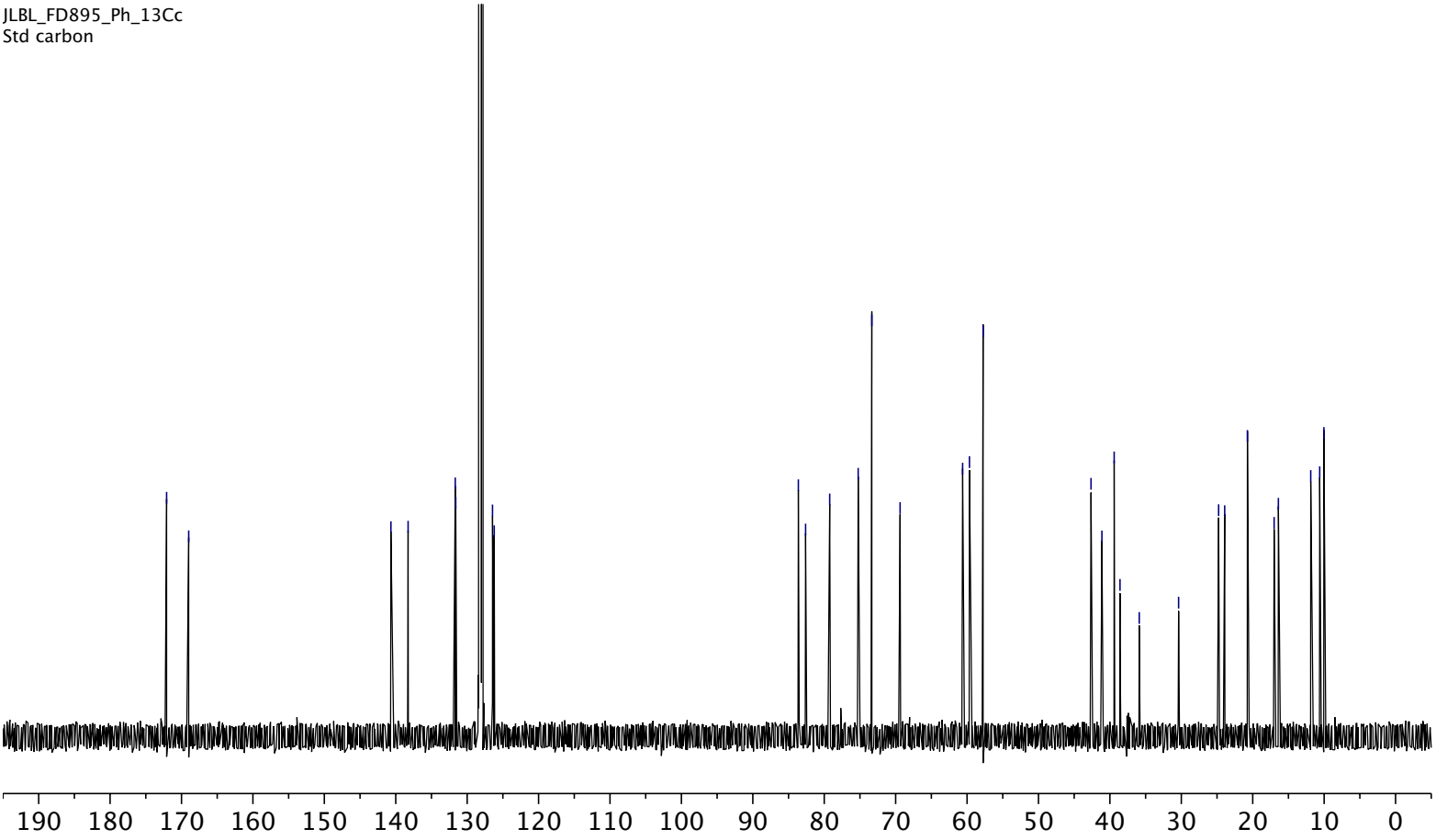


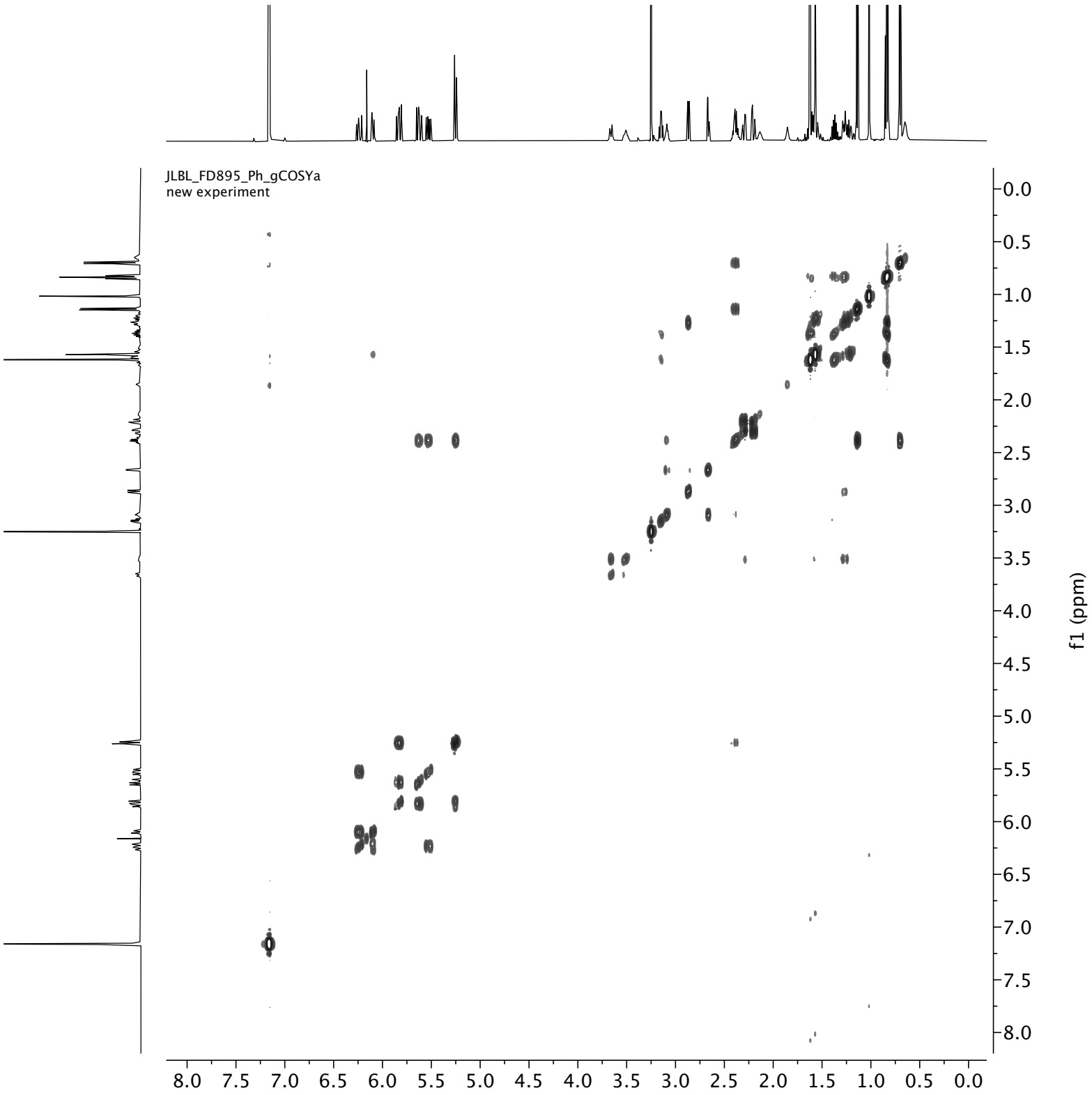
Figure S12. Cell viability studies conducted on treatments HCT-116 cells for **a)** 4 h at ~20 times the GI_{50} value (upper left, Fig. 4) or **b)** 24 h at 500 nM. Cells were stained and data was collected using the Cell Titer MTS Assay (see Methods).

^{1}H-NMR (500 MHz) and ^{13}C-NMR (125 MHz) spectra of FD-895 (**1**) in C_6D_6

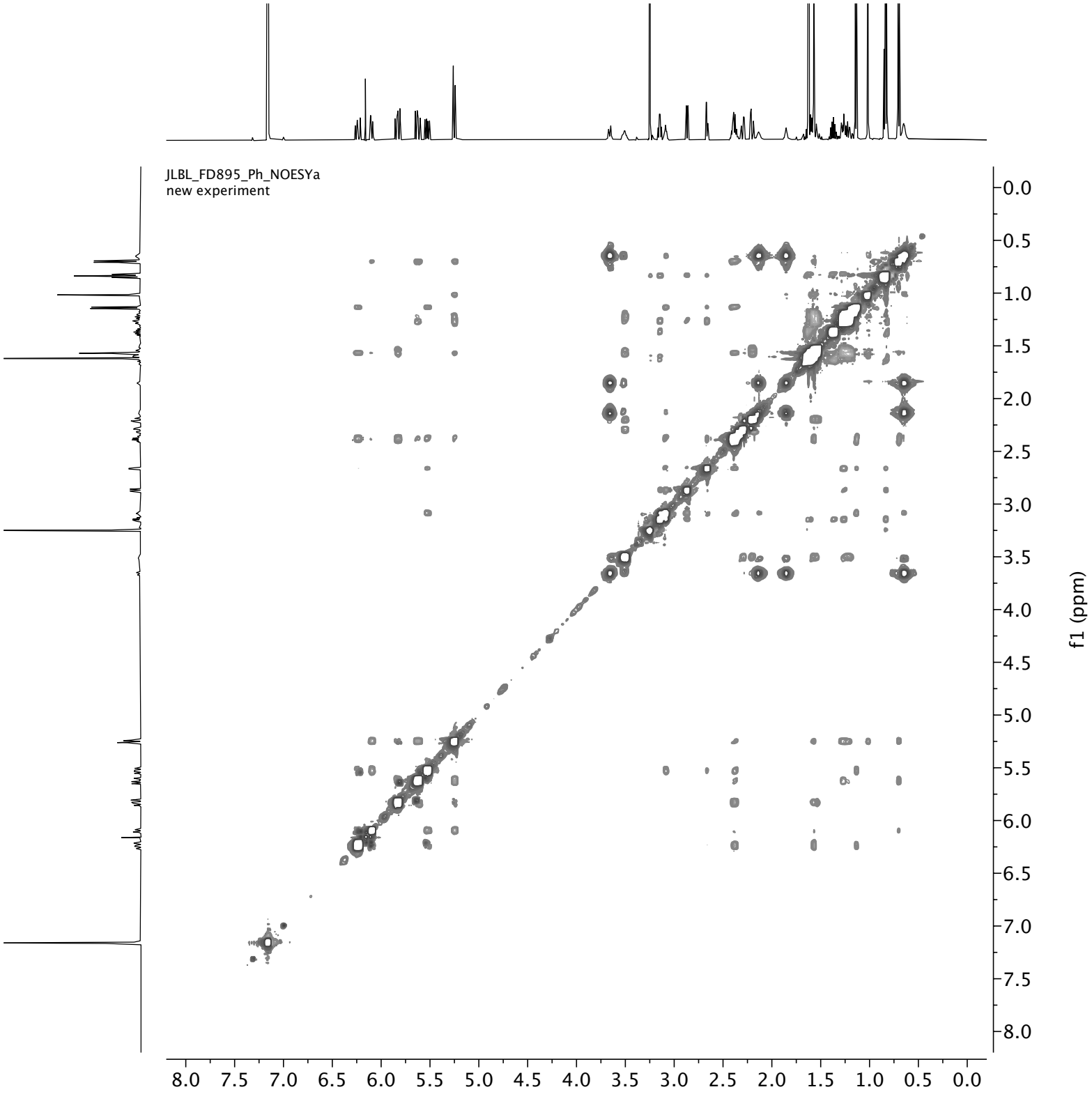




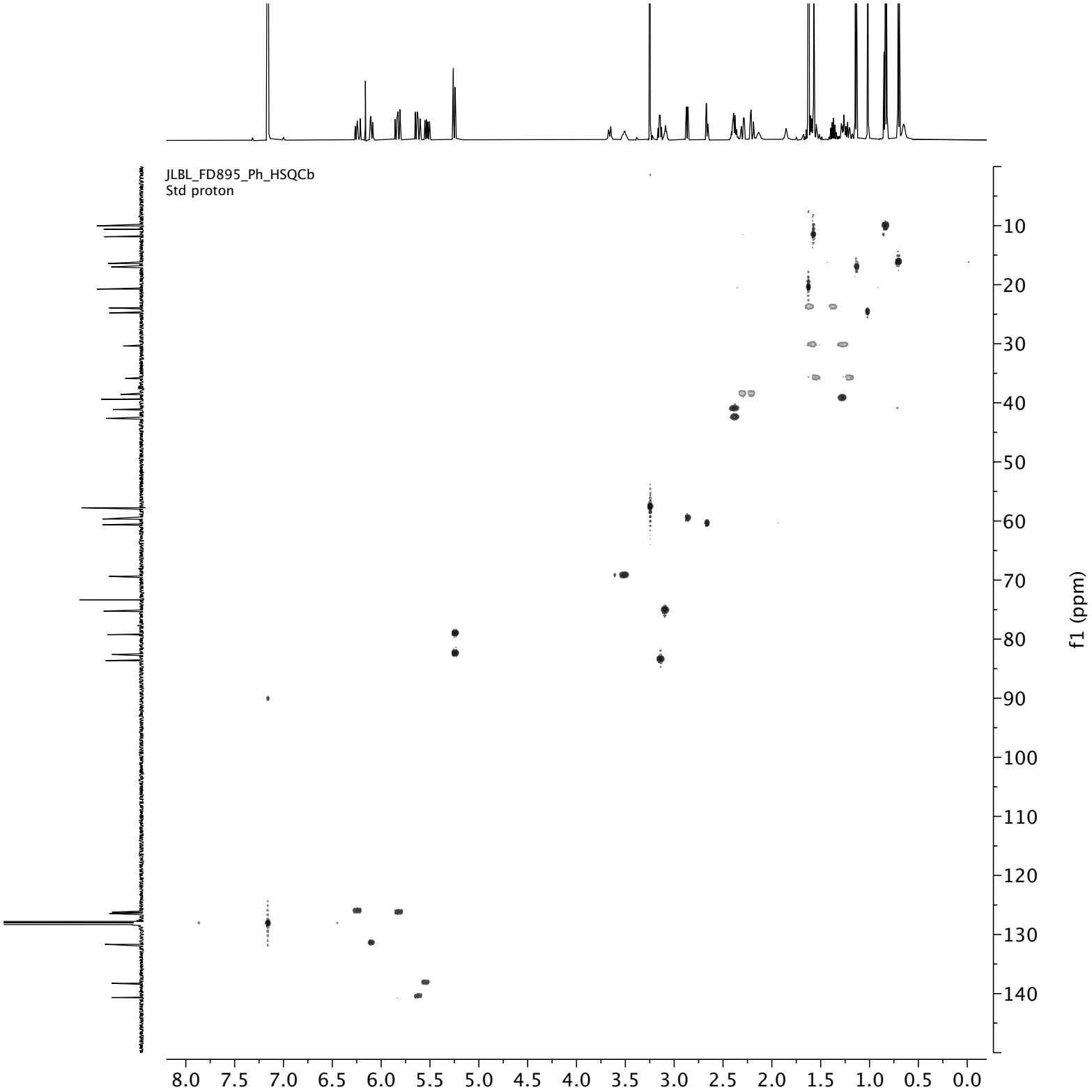
$^{1}H,^{1}H$-gCOSY (500 MHz) spectrum of FD-895 (**1**) in C_6D_6



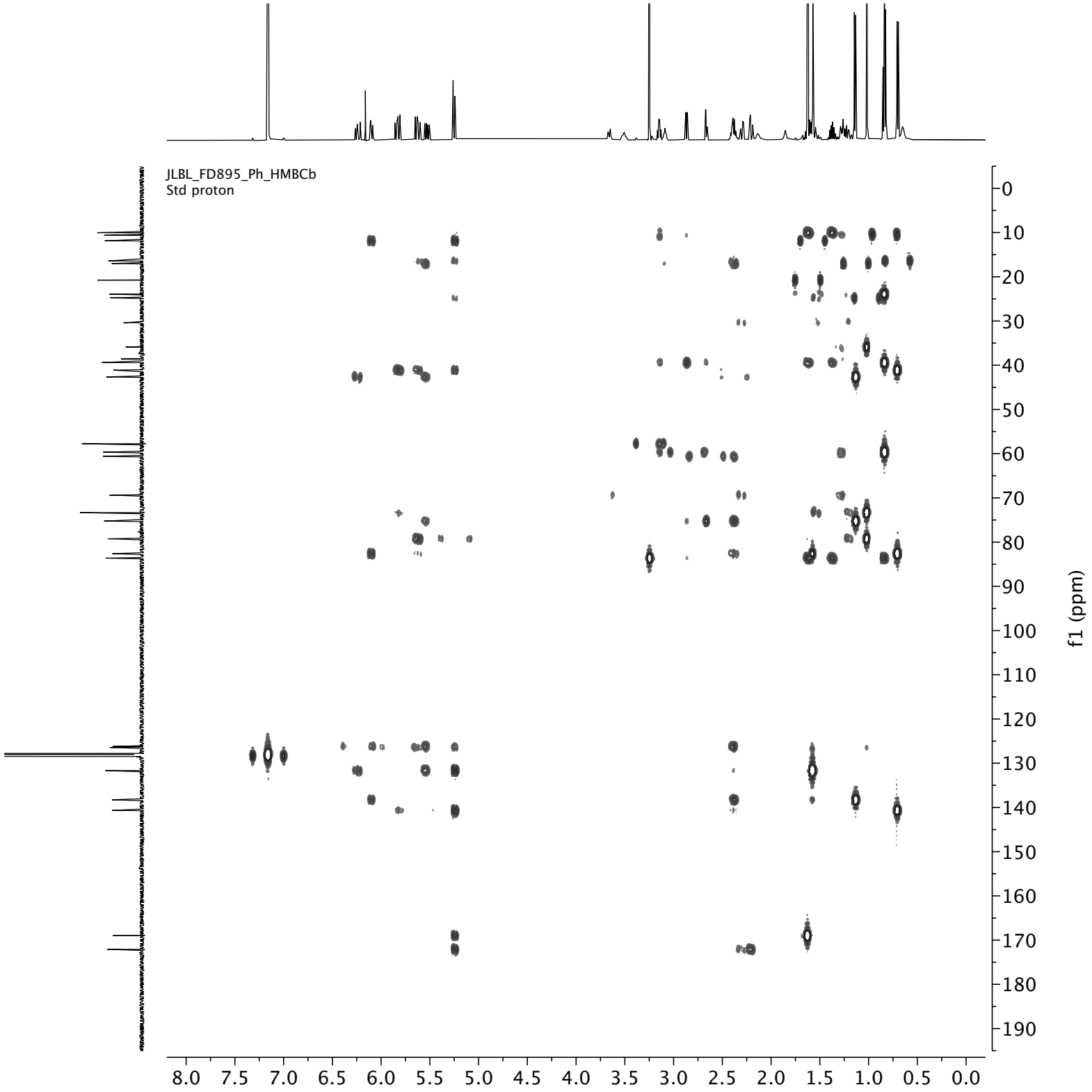
$^{1}H,^{1}H$-NOESY (500 MHz) spectrum of FD-895 (**1**) in C_6D_6



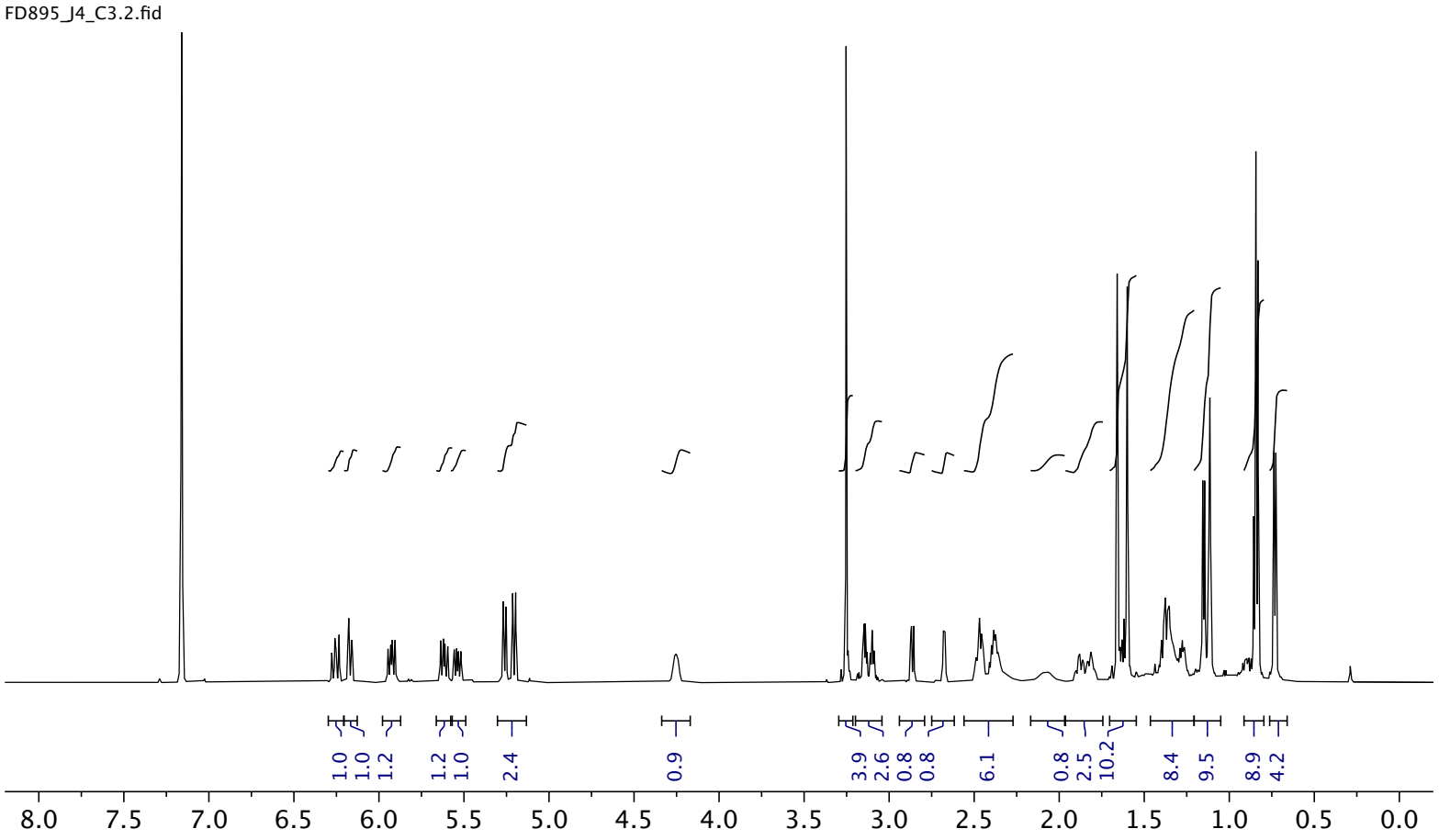
$^{1}H,^{13}C$-HSQC (500 MHz) spectrum of FD-895 (**1**) in C_6D_6

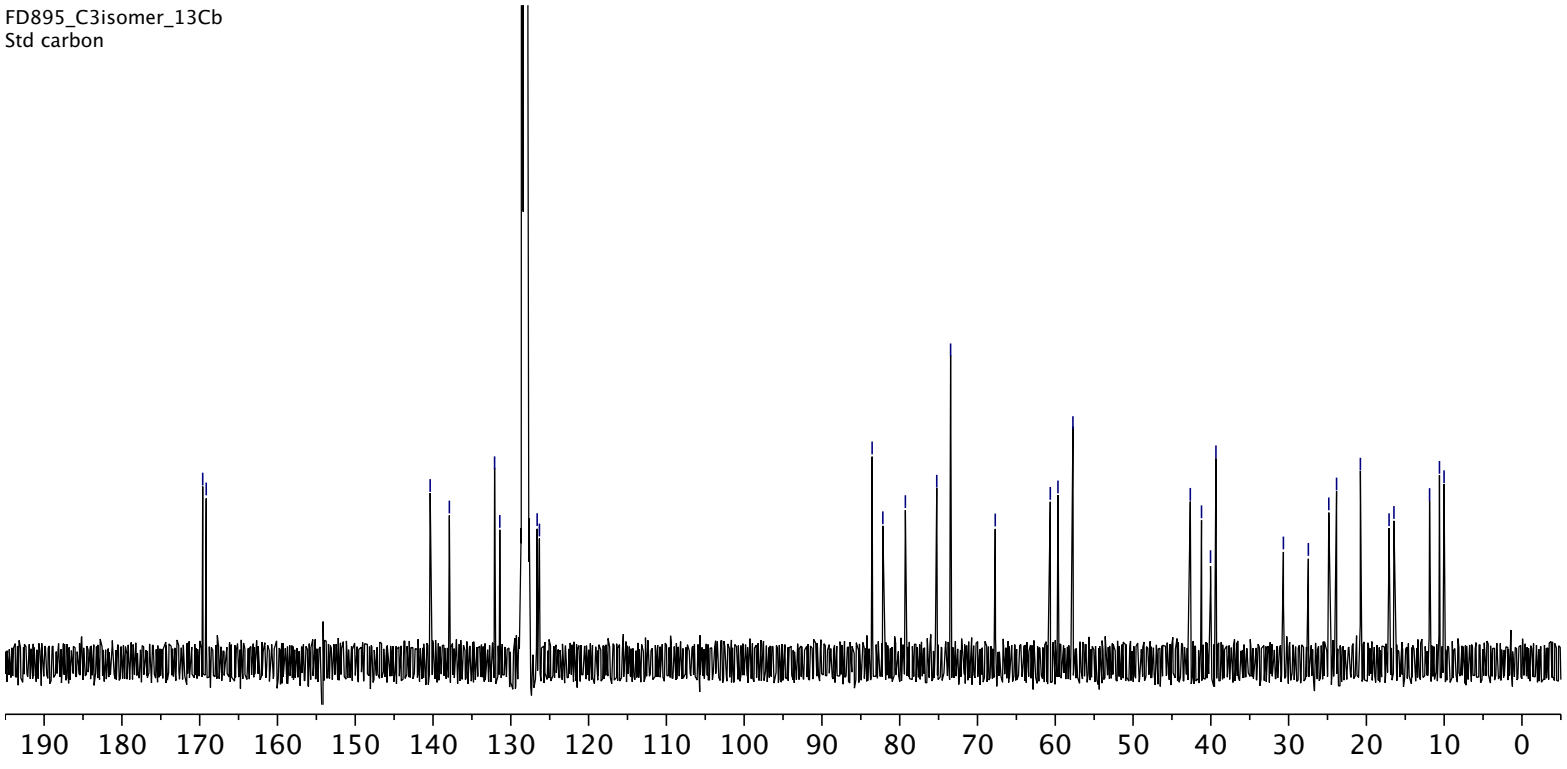


$^{1}H,^{13}C$-HMBC (500 MHz) spectrum of FD-895 (**1**) in C_6D_6

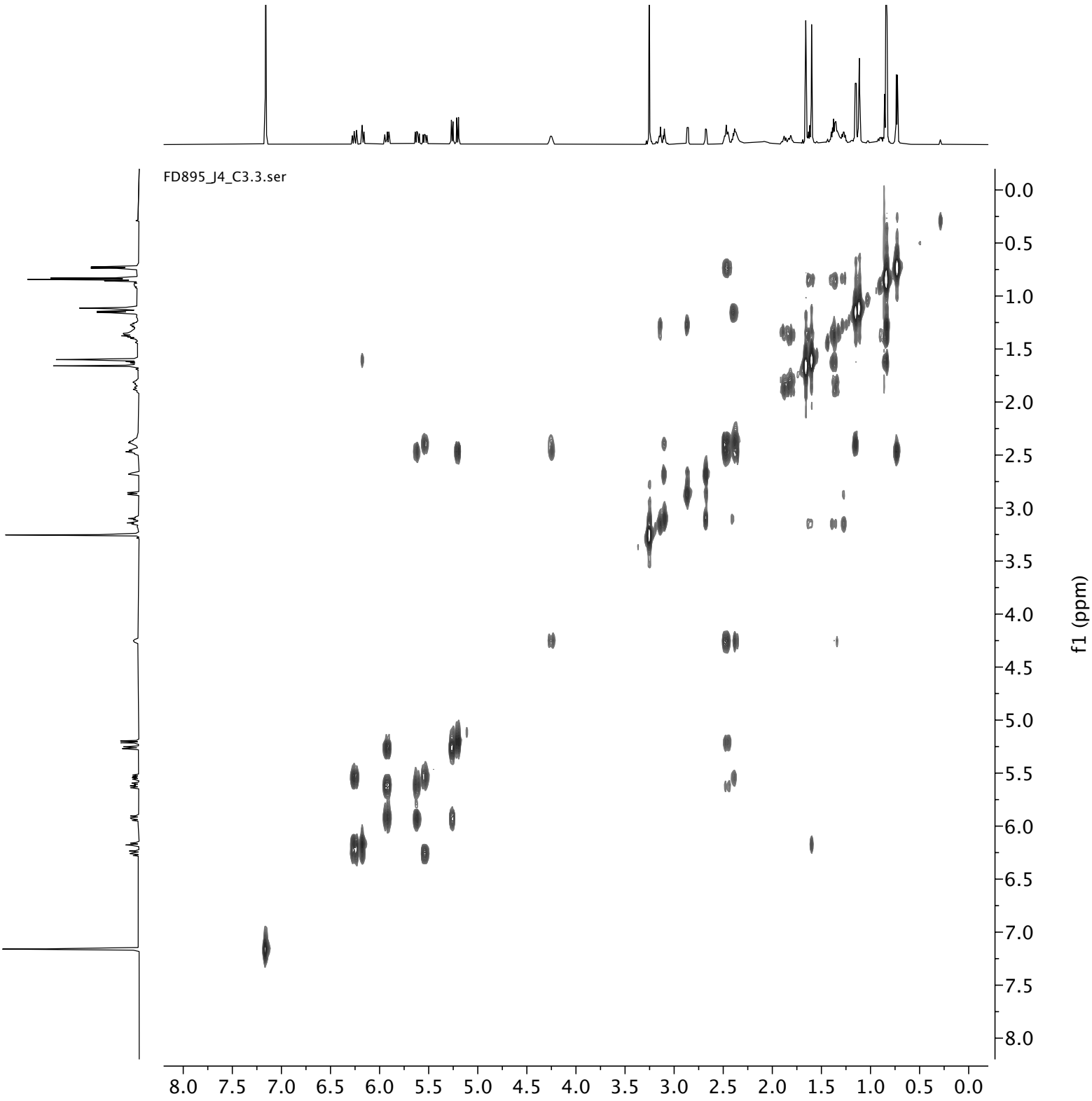


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 3*S*-FD-895 (**1a**) in C_6D_6

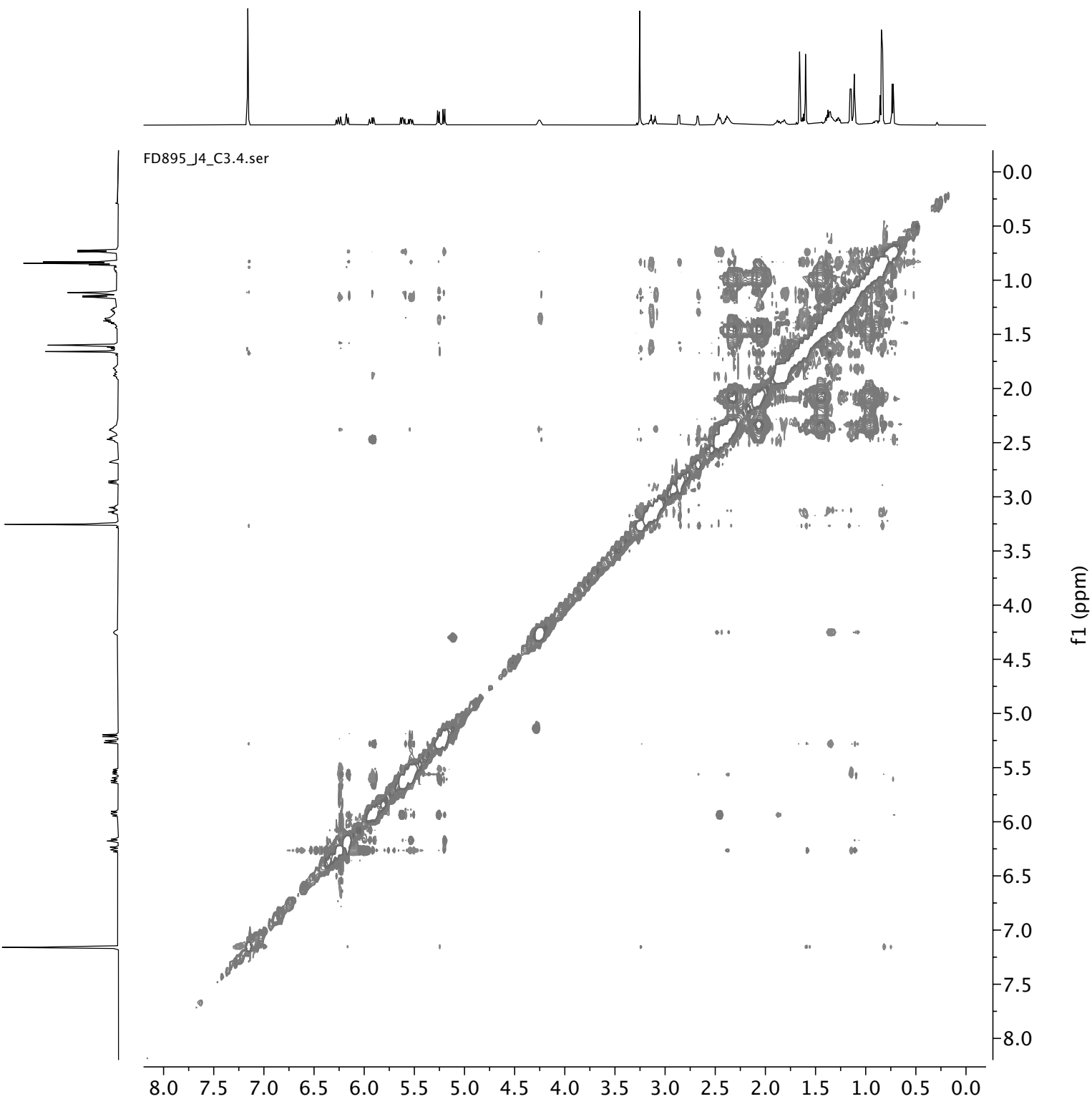




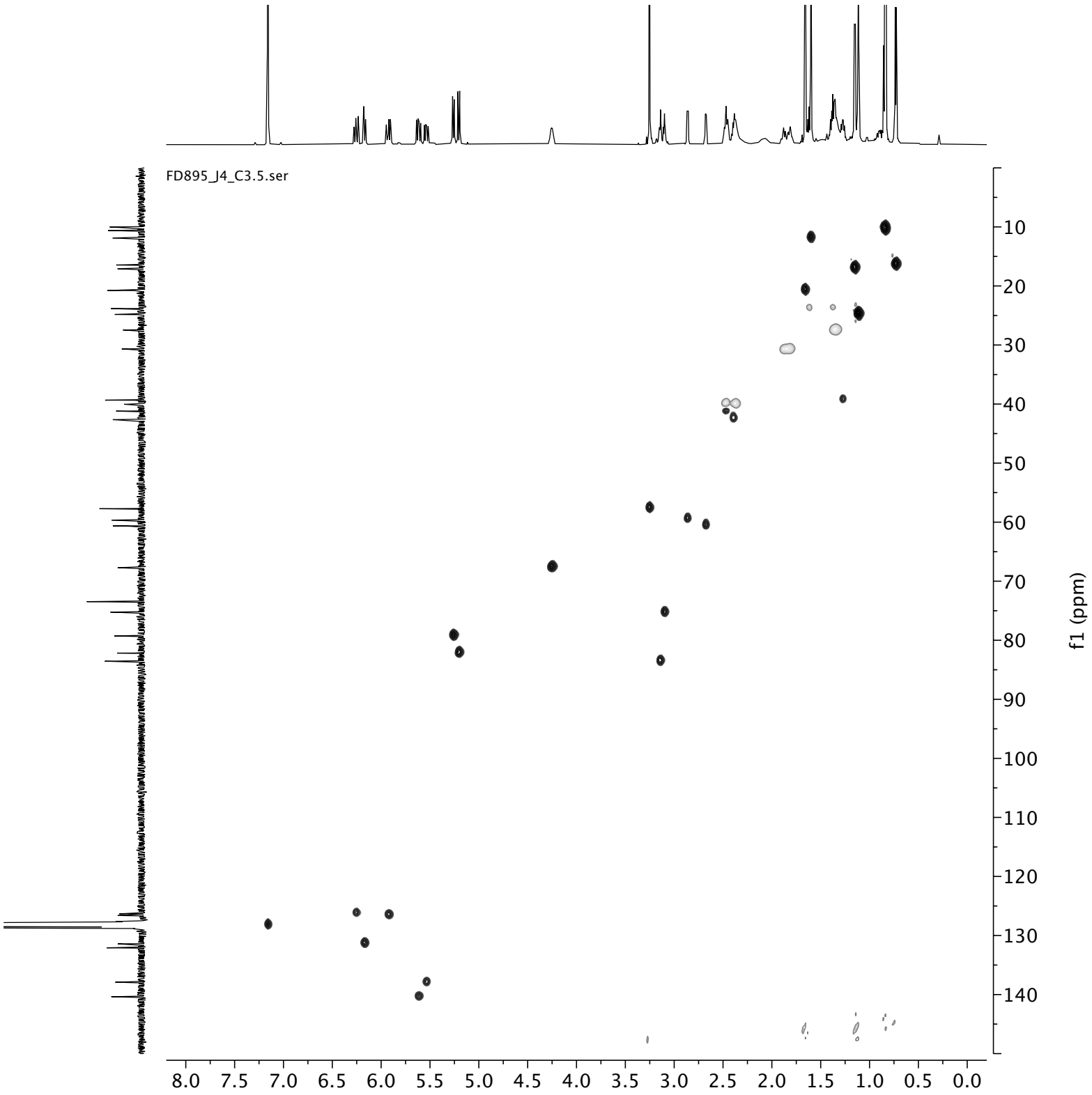
$^{1}H,^{1}H$-gCOSY (600 MHz) spectrum of 3*S*-FD-895 (**1a**) in C_6D_6



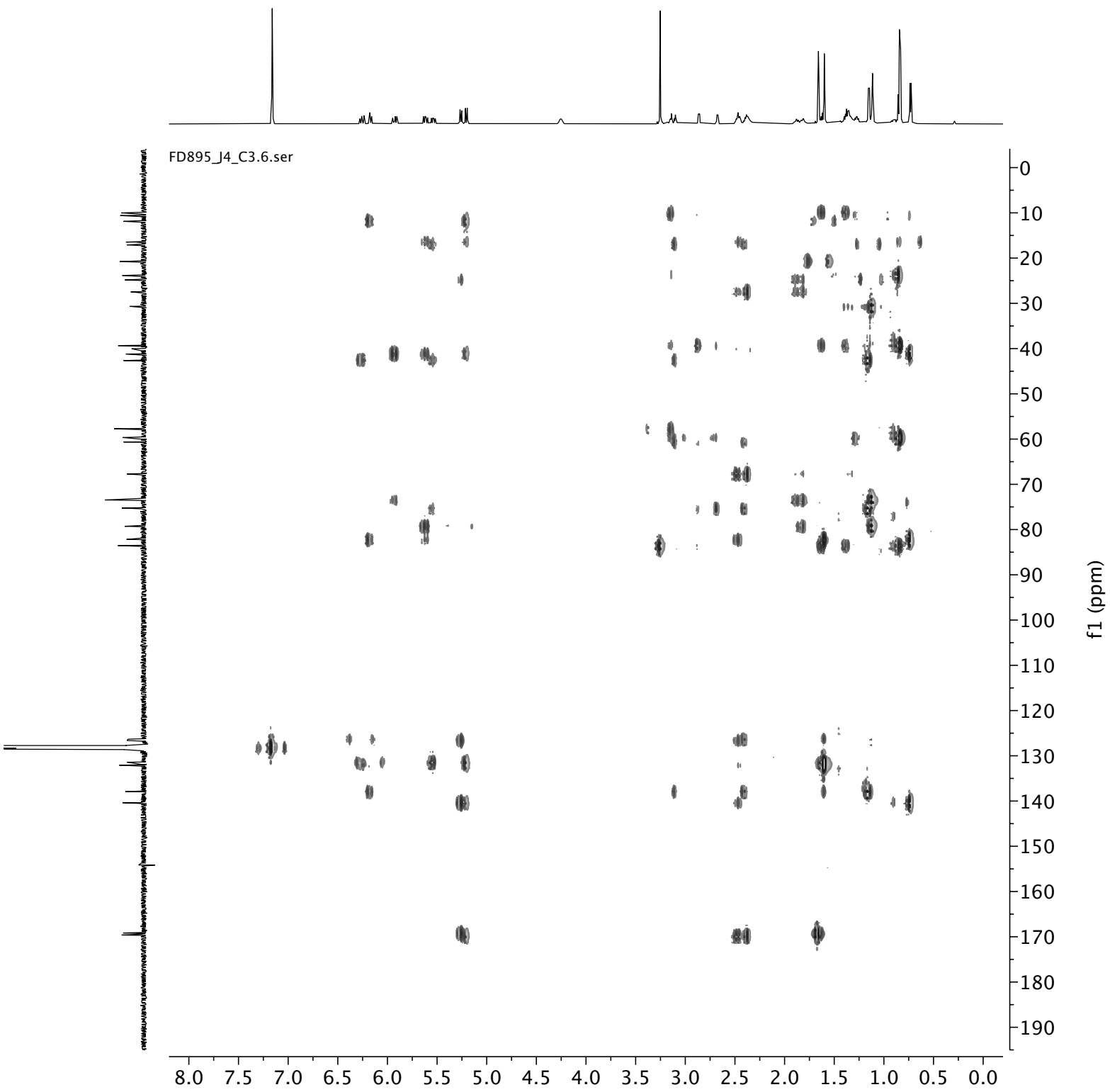
$^{1}H,^{1}H$-NOESY (600 MHz) spectrum of 3*S*-FD-895 (**1a**) in C_6D_6



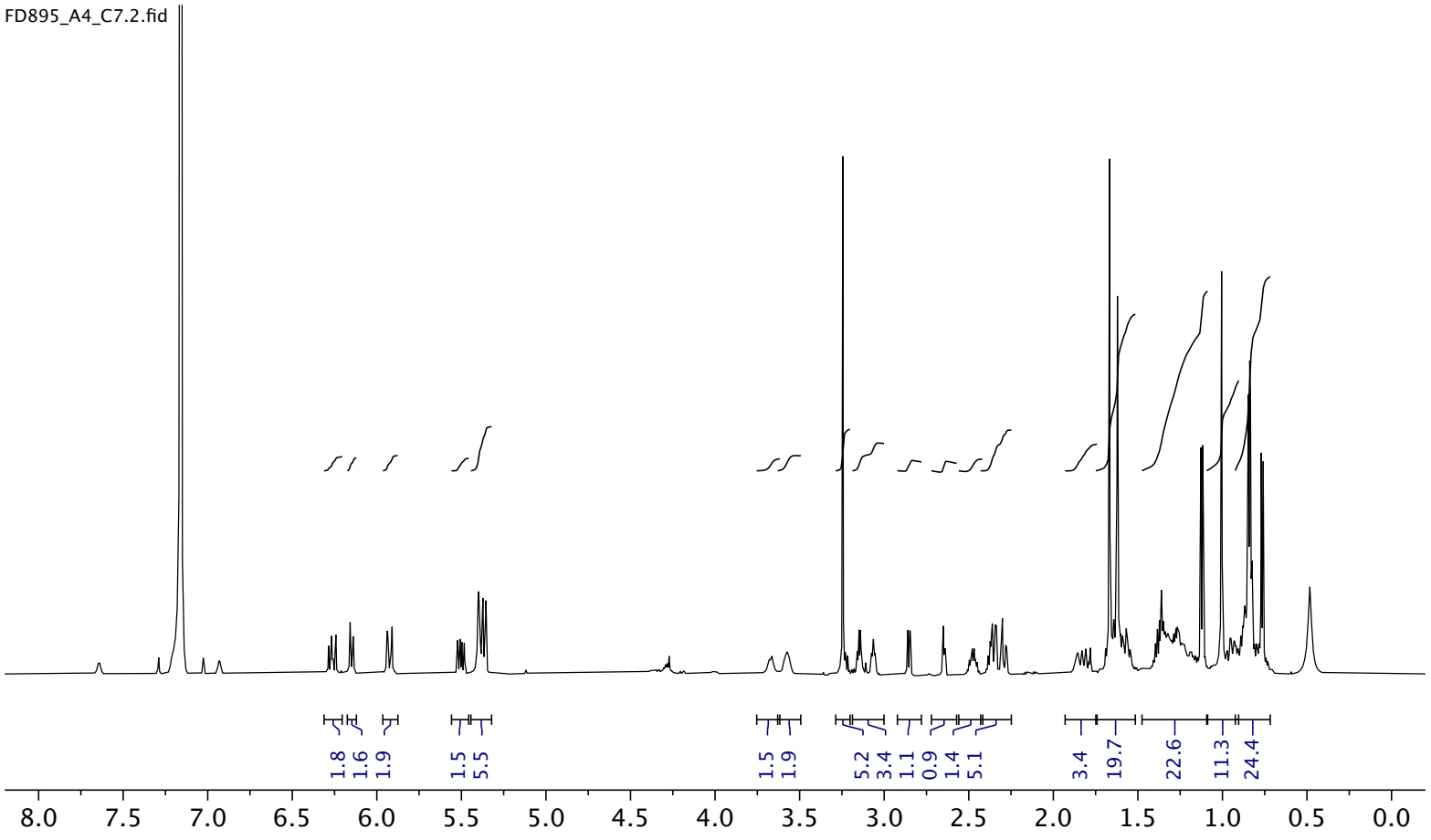
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 3*S*–FD–895 (**1a**) in C_6D_6

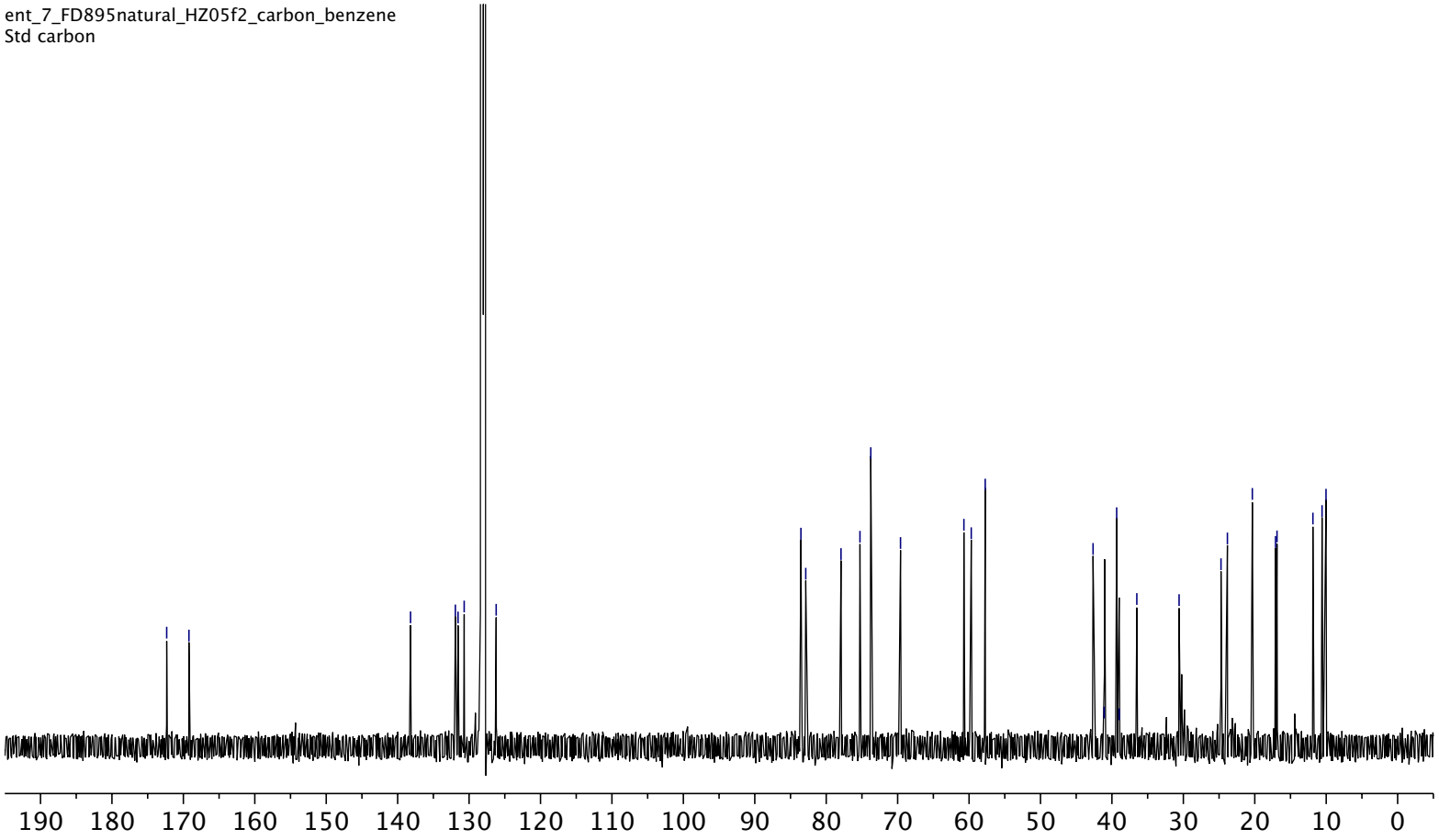


$^{1}H,^{13}C$-HMBC (500 MHz) spectrum of 3*S*-FD-895 (**1a**) in C_6D_6

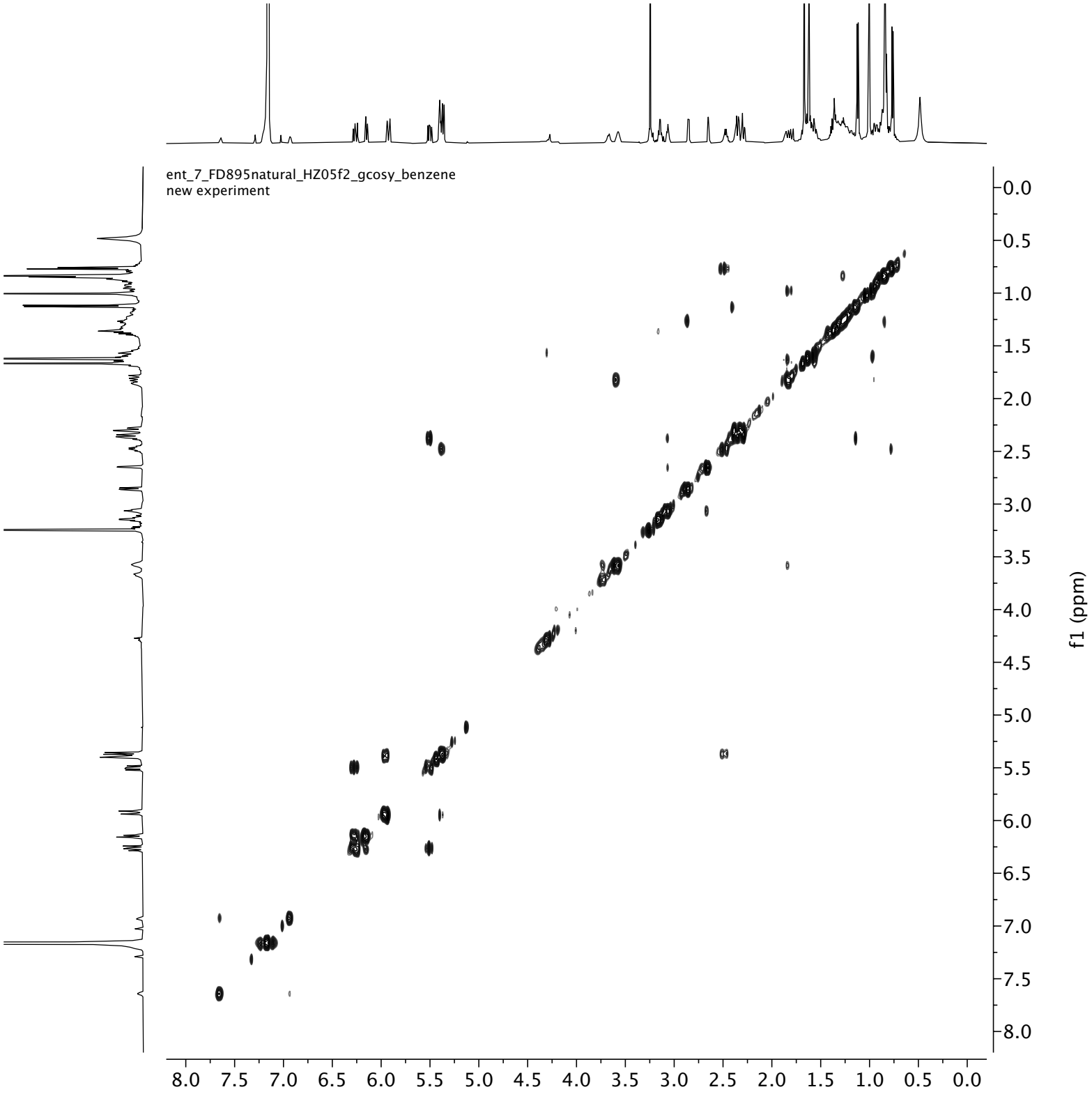


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 7*R*-FD-895 (**1b**) in C_6D_6

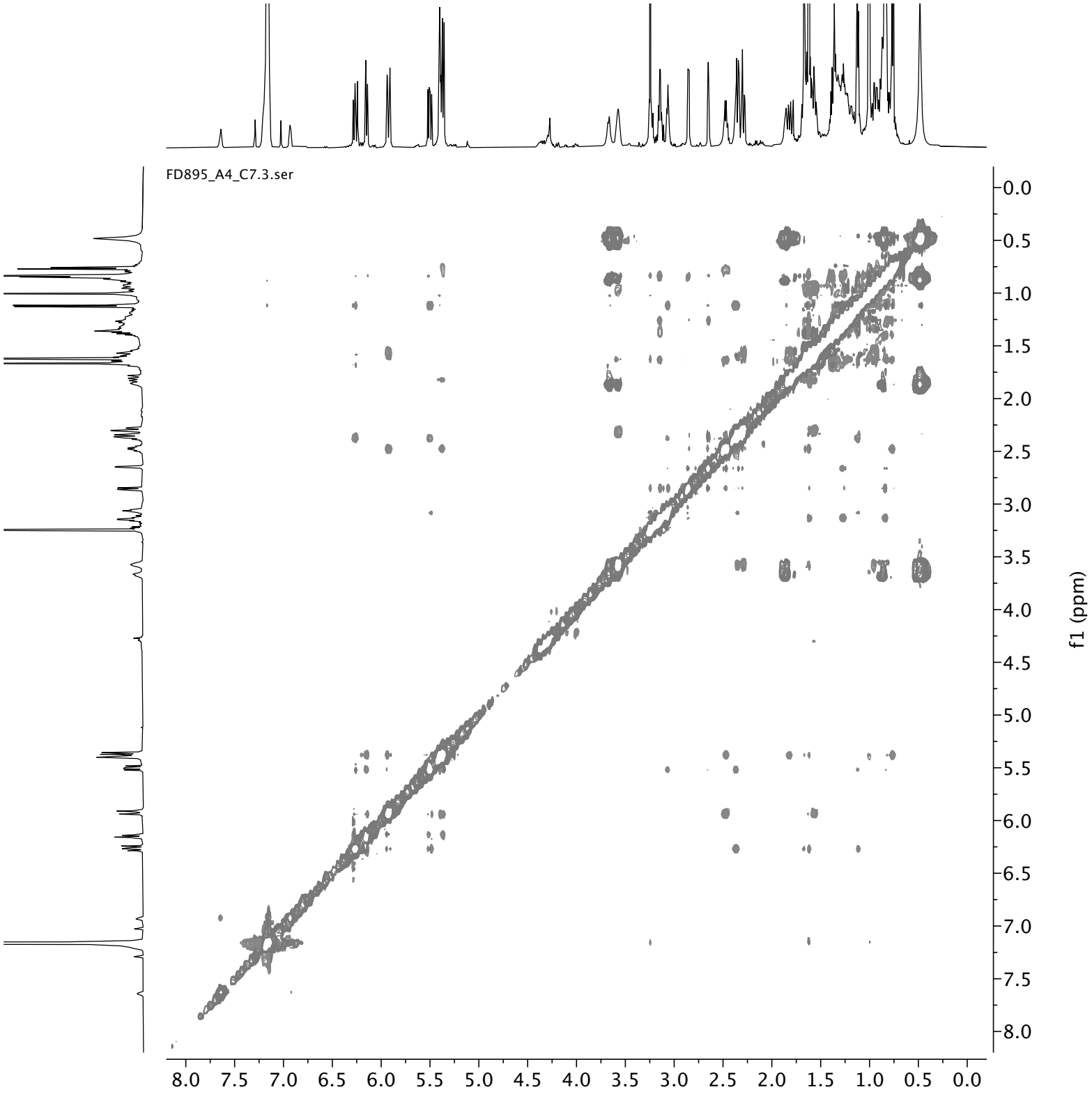




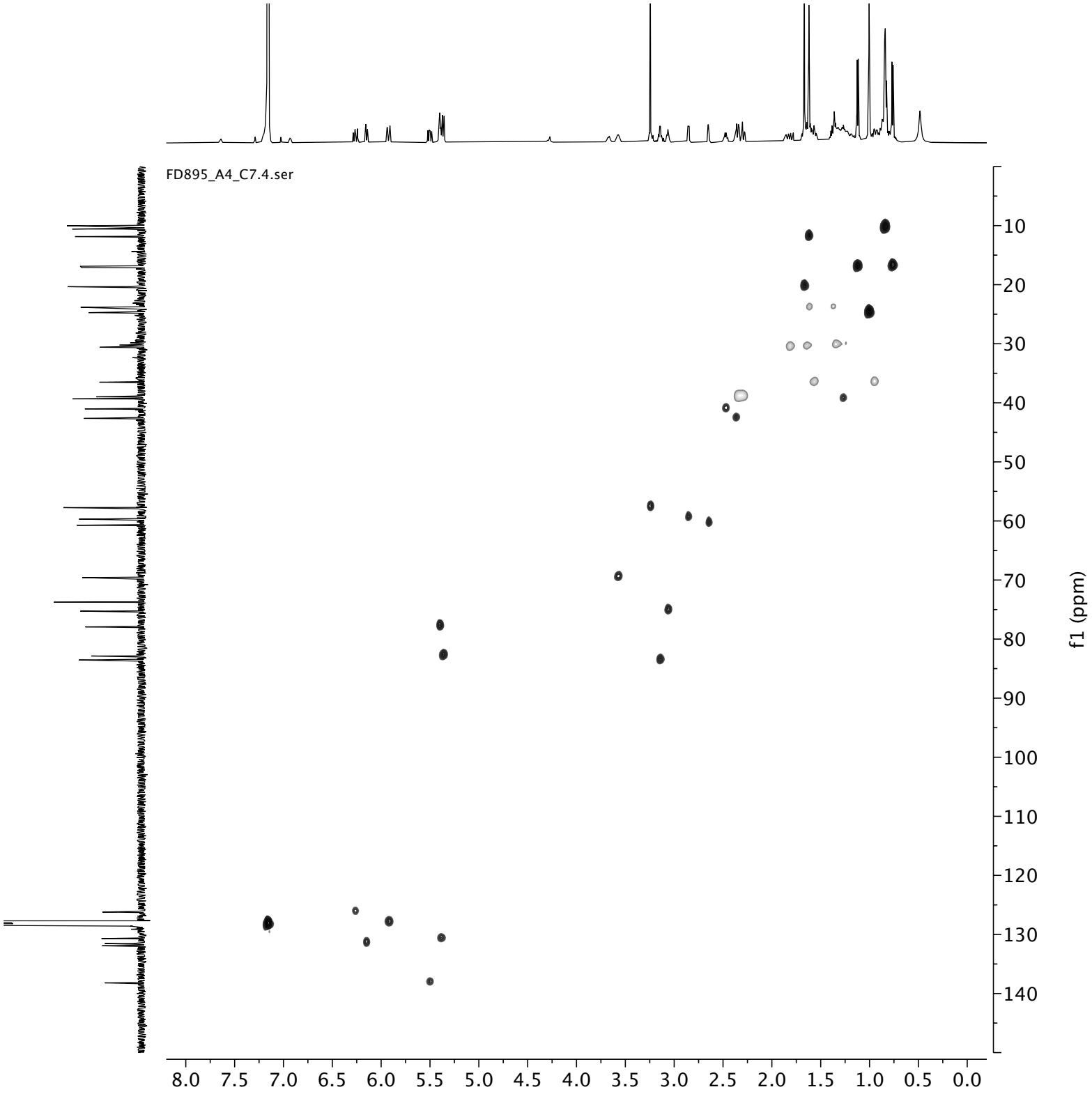
$^{1}H,^{1}H$-gCOSY (500 MHz) spectrum of 7*R*-FD-895 (**1b**) in C_6D_6



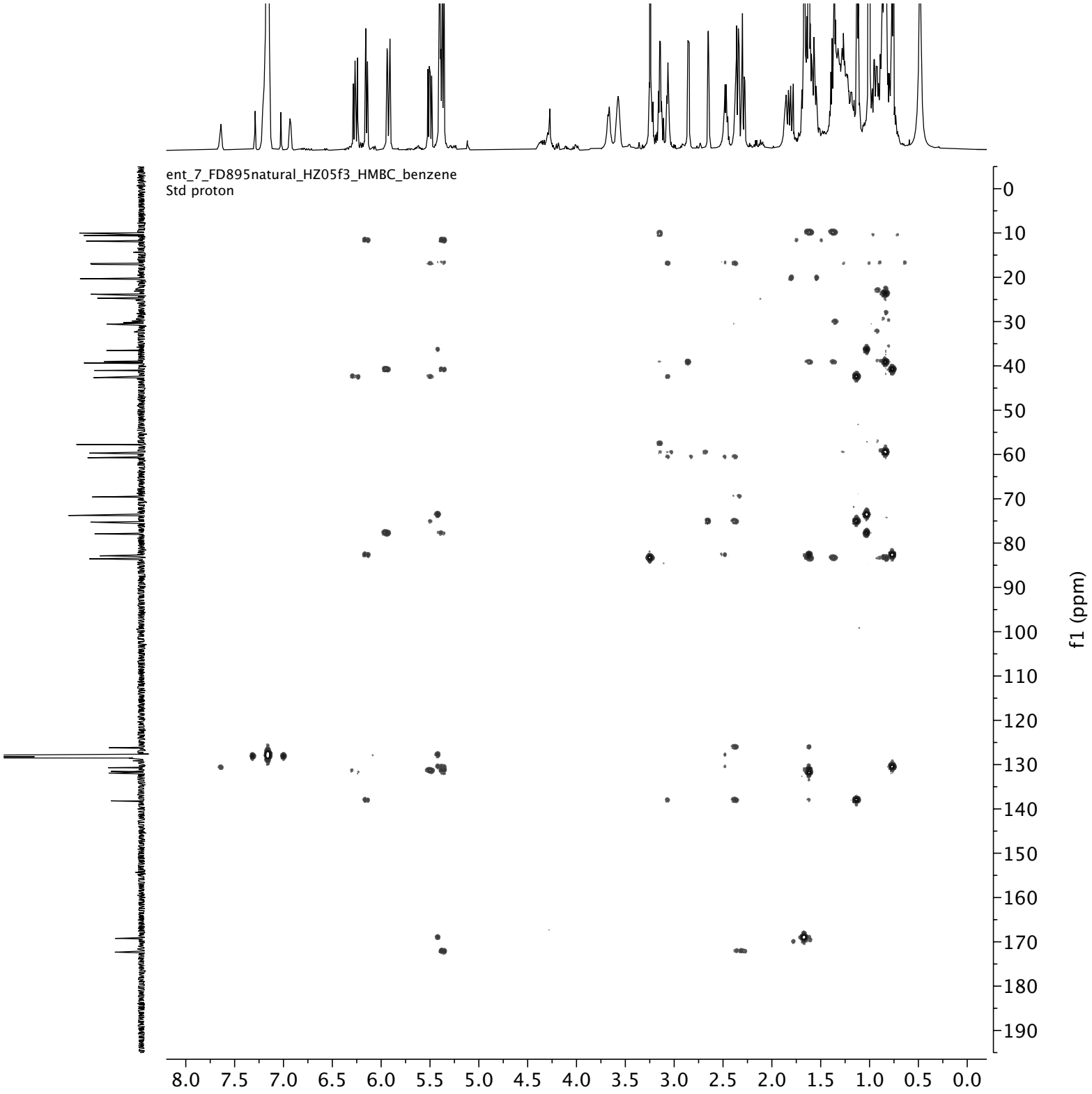
^{1}H,^{1}H–NOESY (600 MHz) spectrum of 7*R*–FD–895 (**1b**) in C_6D_6



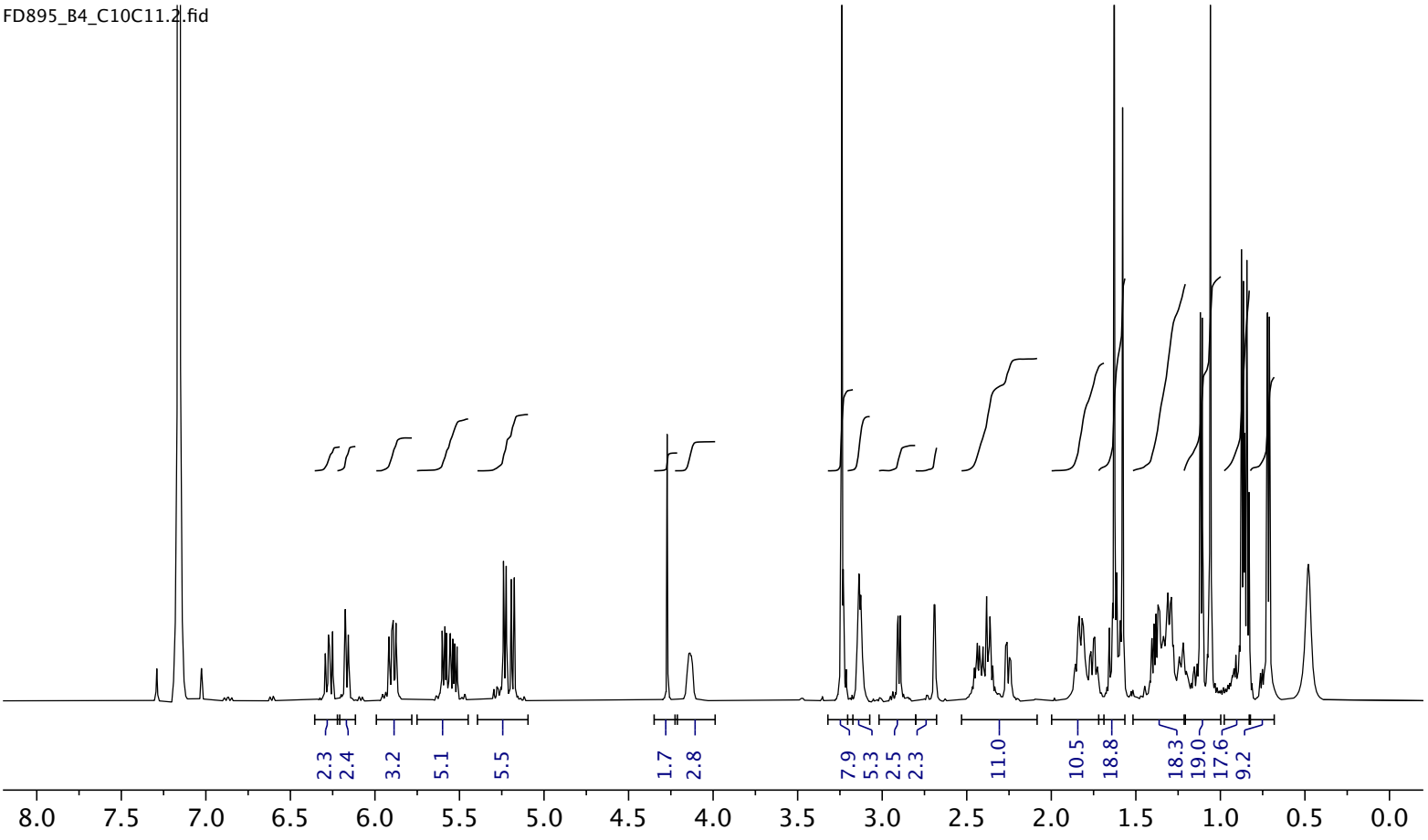
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 7*R*–FD–895 (**1b**) in C_6D_6

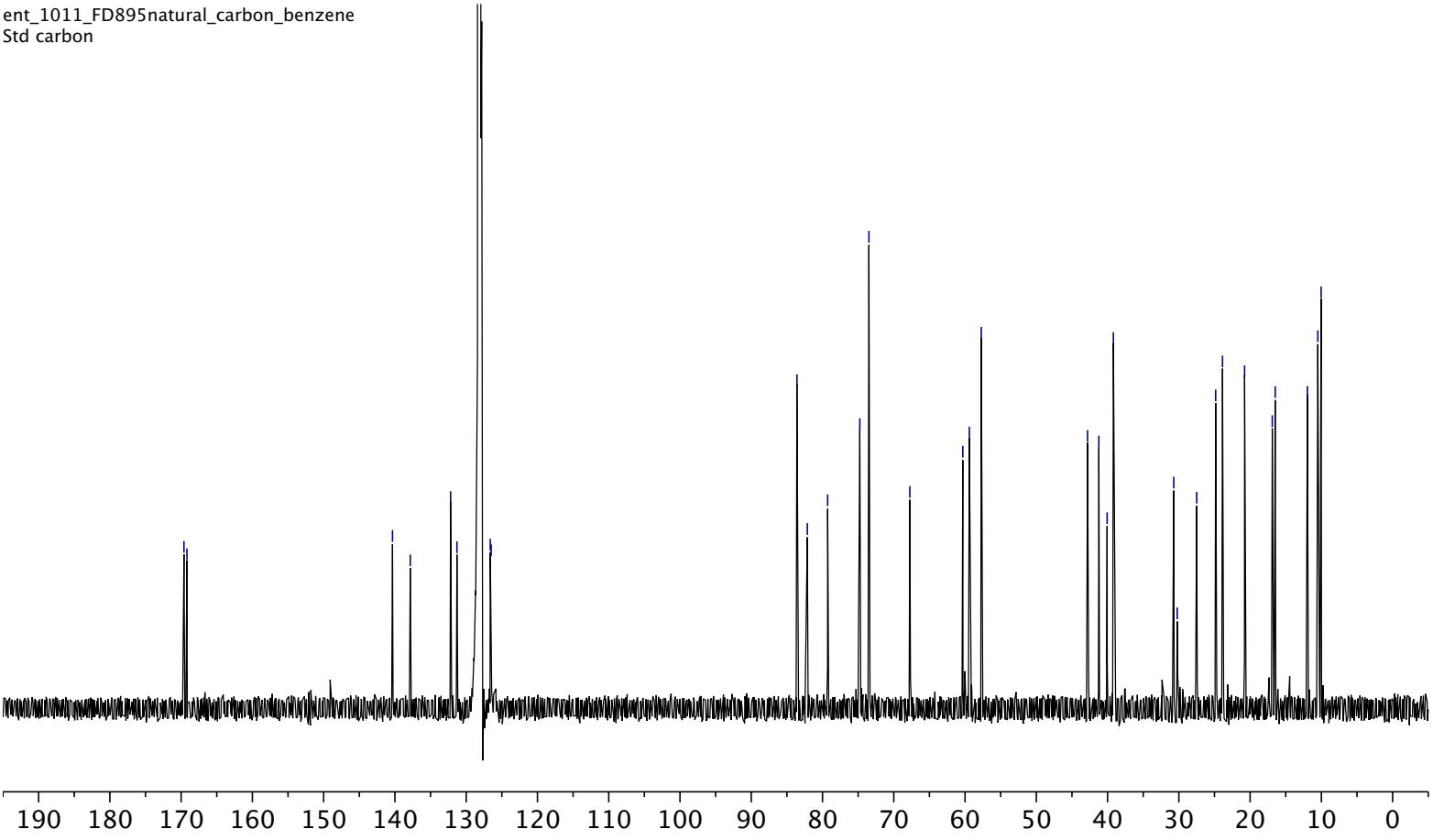


$^{1}H,^{13}C$-HMBC (500 MHz) spectrum of 7*R*-FD-895 (**1b**) in C_6D_6

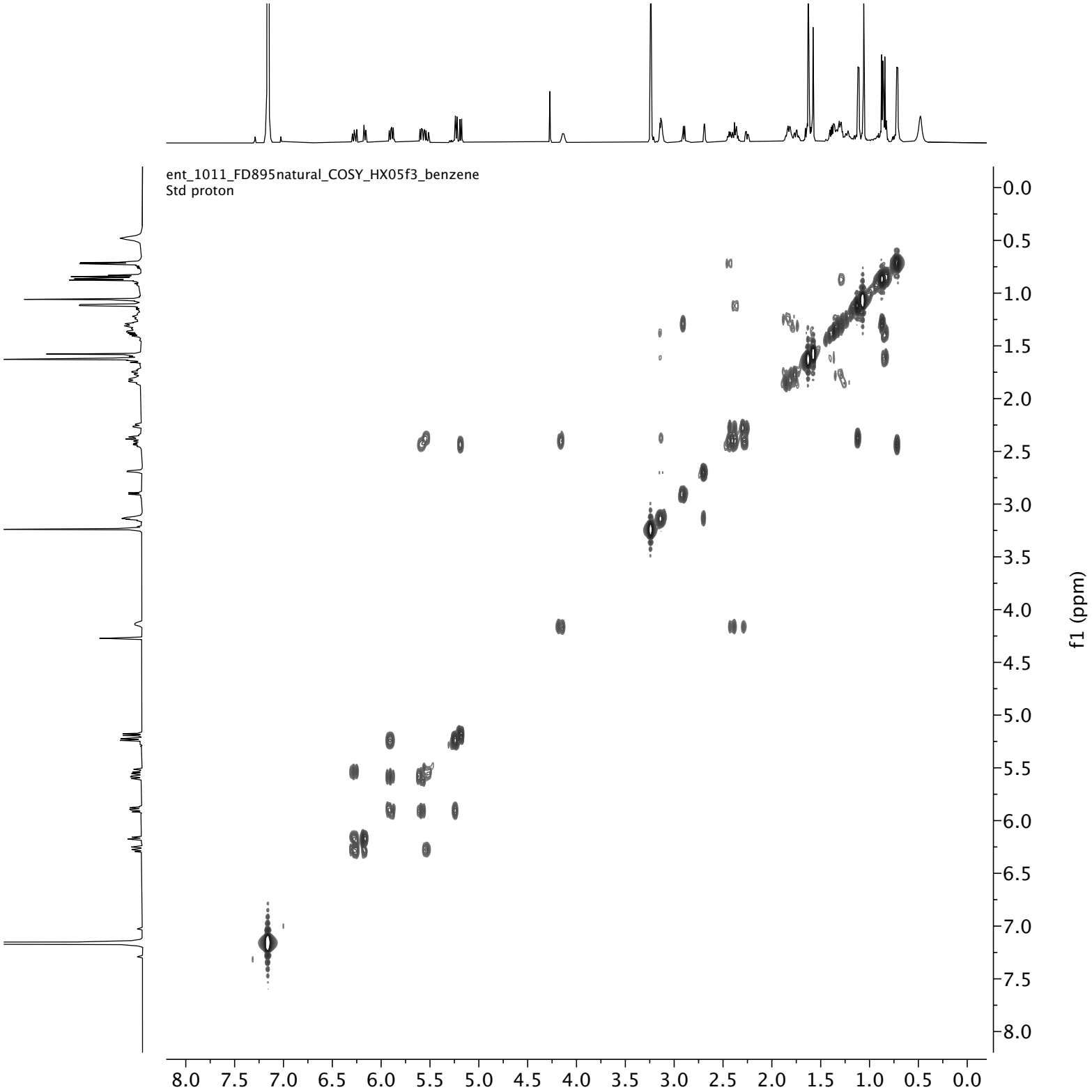


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 10*R*,11*R*-FD-895 (**1c**) in C_6D_6

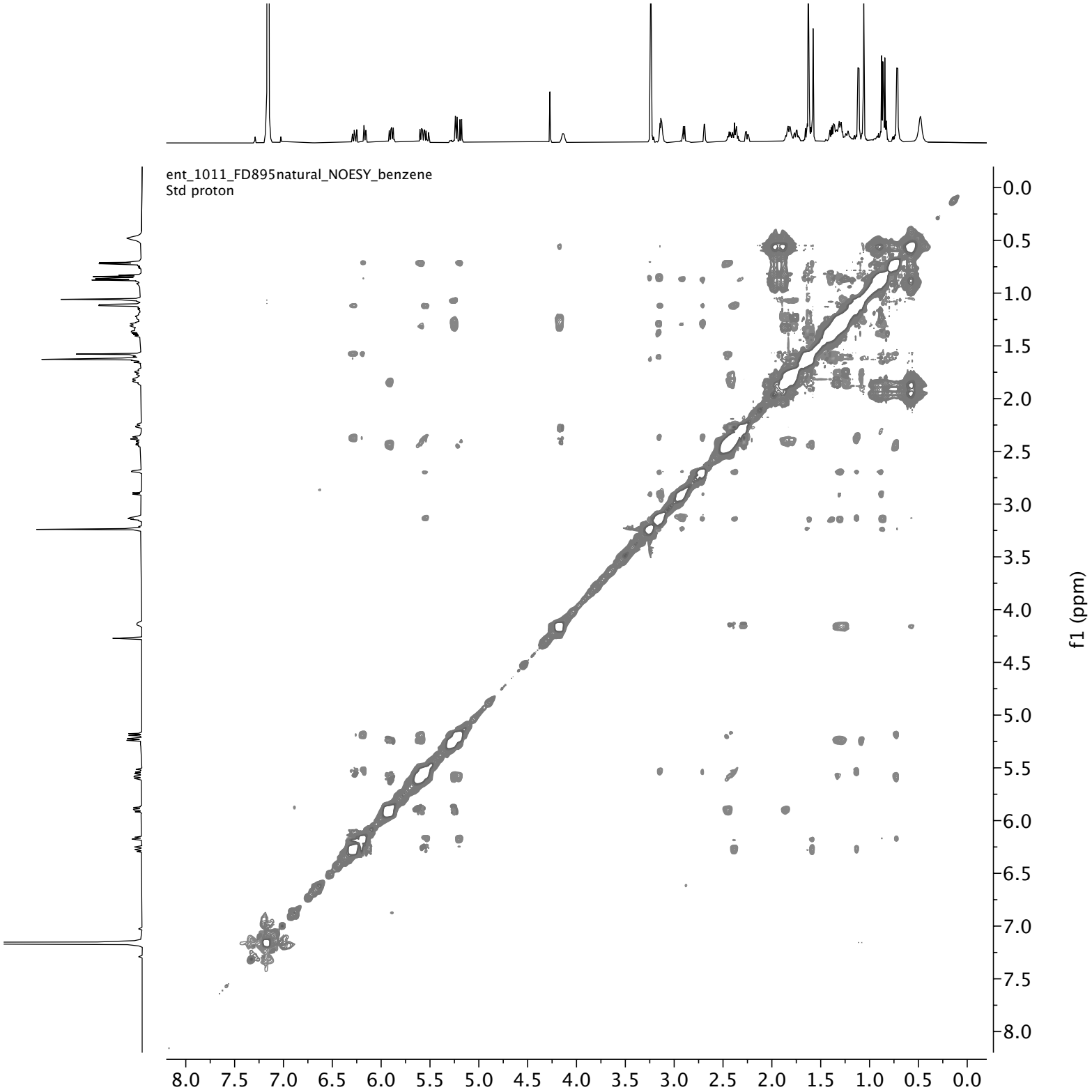




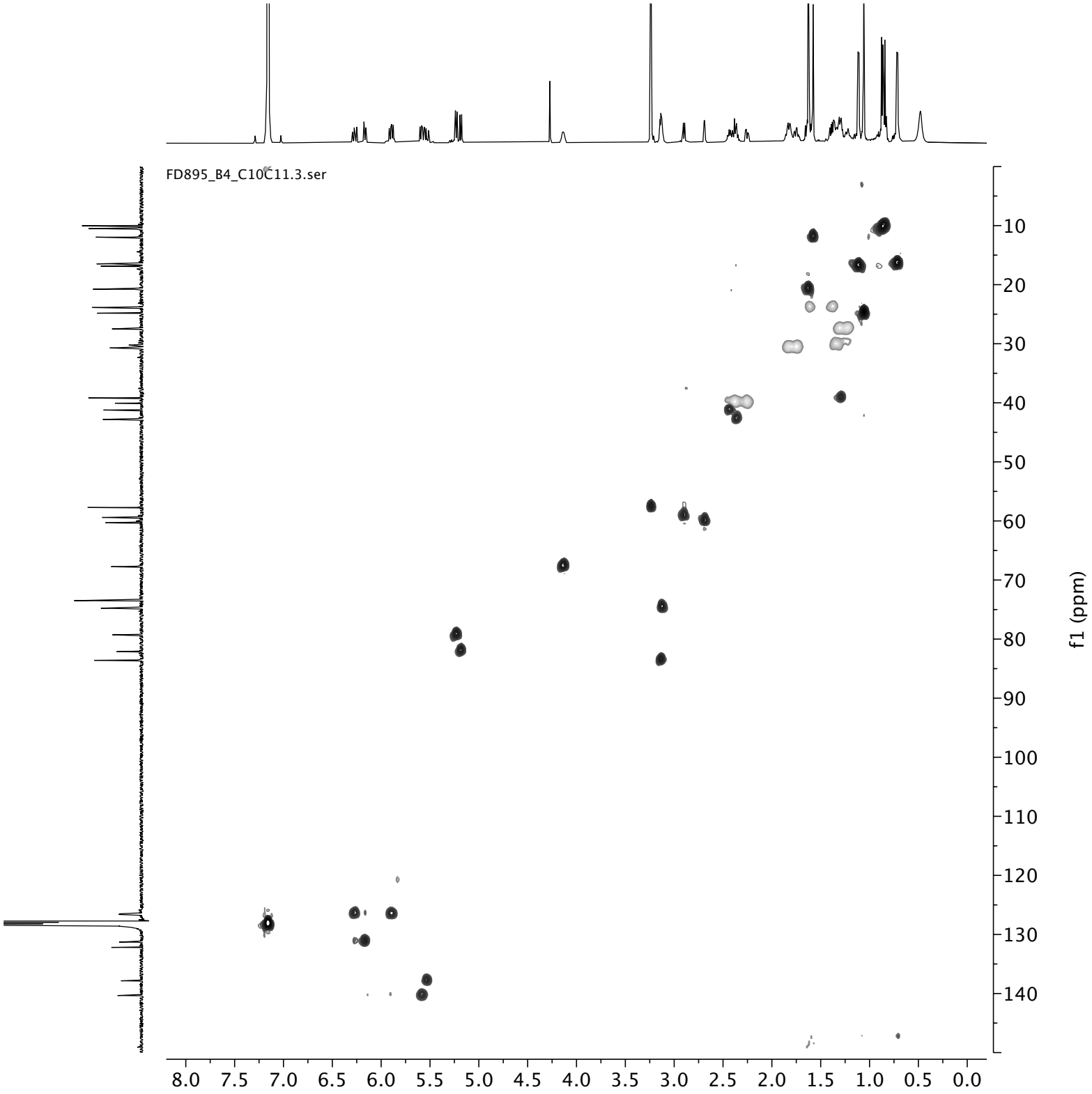
^{1}H,^{1}H–gCOSY (500 MHz) spectrum of 10*R*,11*R*–FD–895 (**1c**) in C_6D_6



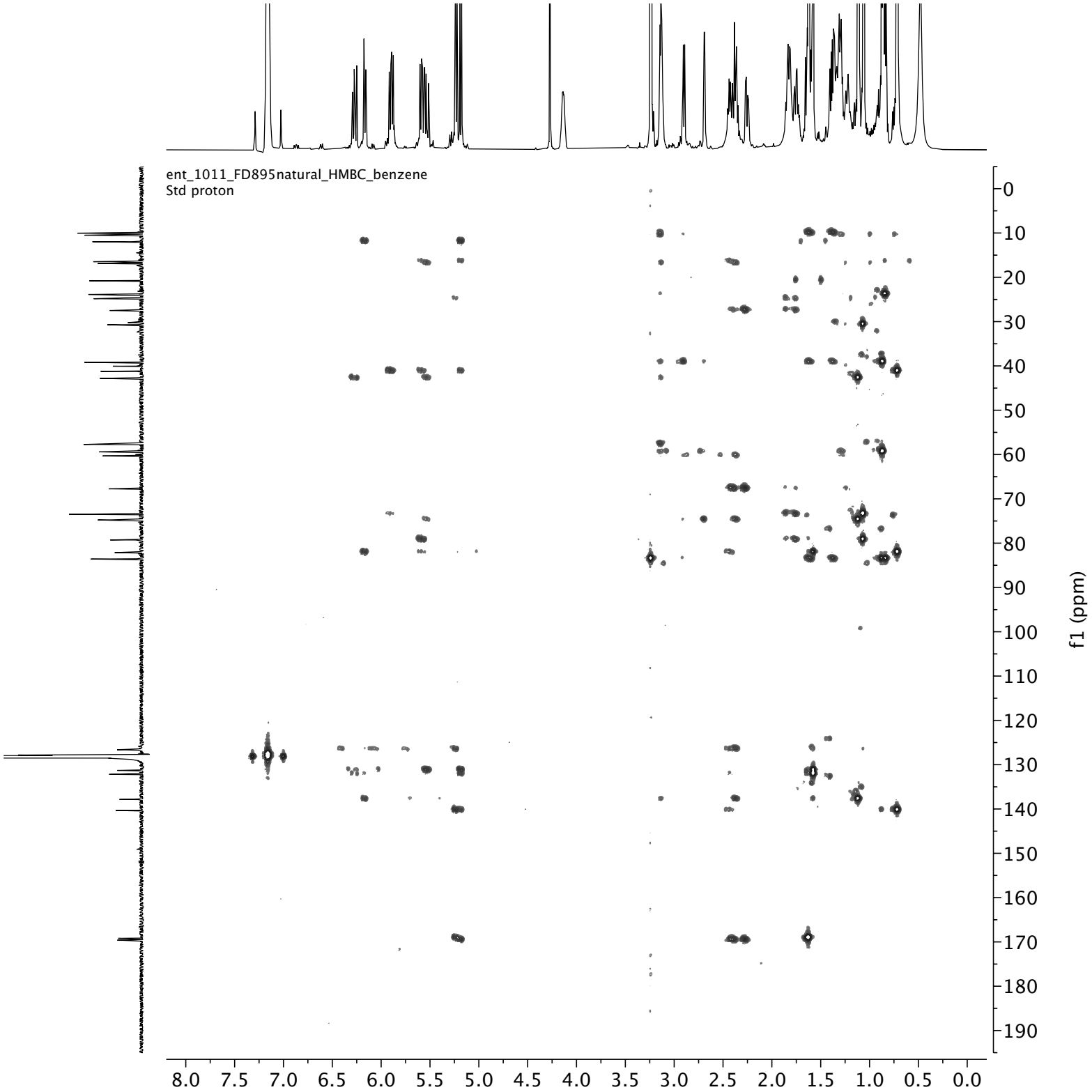
^{1}H,^{1}H-NOESY (500 MHz) spectrum of 10*R*,11*R*-FD-895 (**1c**) in C_6D_6



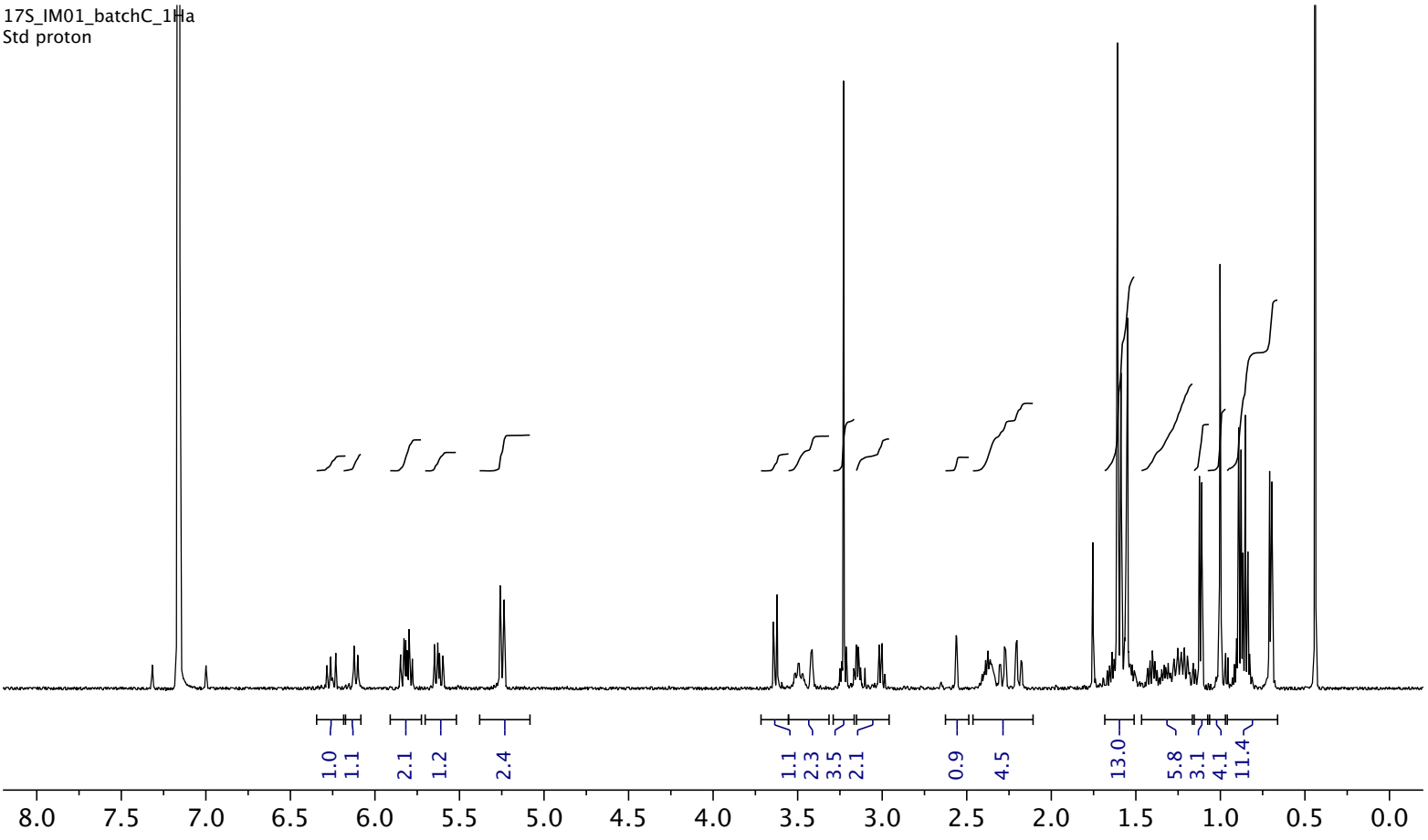
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 10*R*,11*R*–FD–895 (**1c**) in C_6D_6

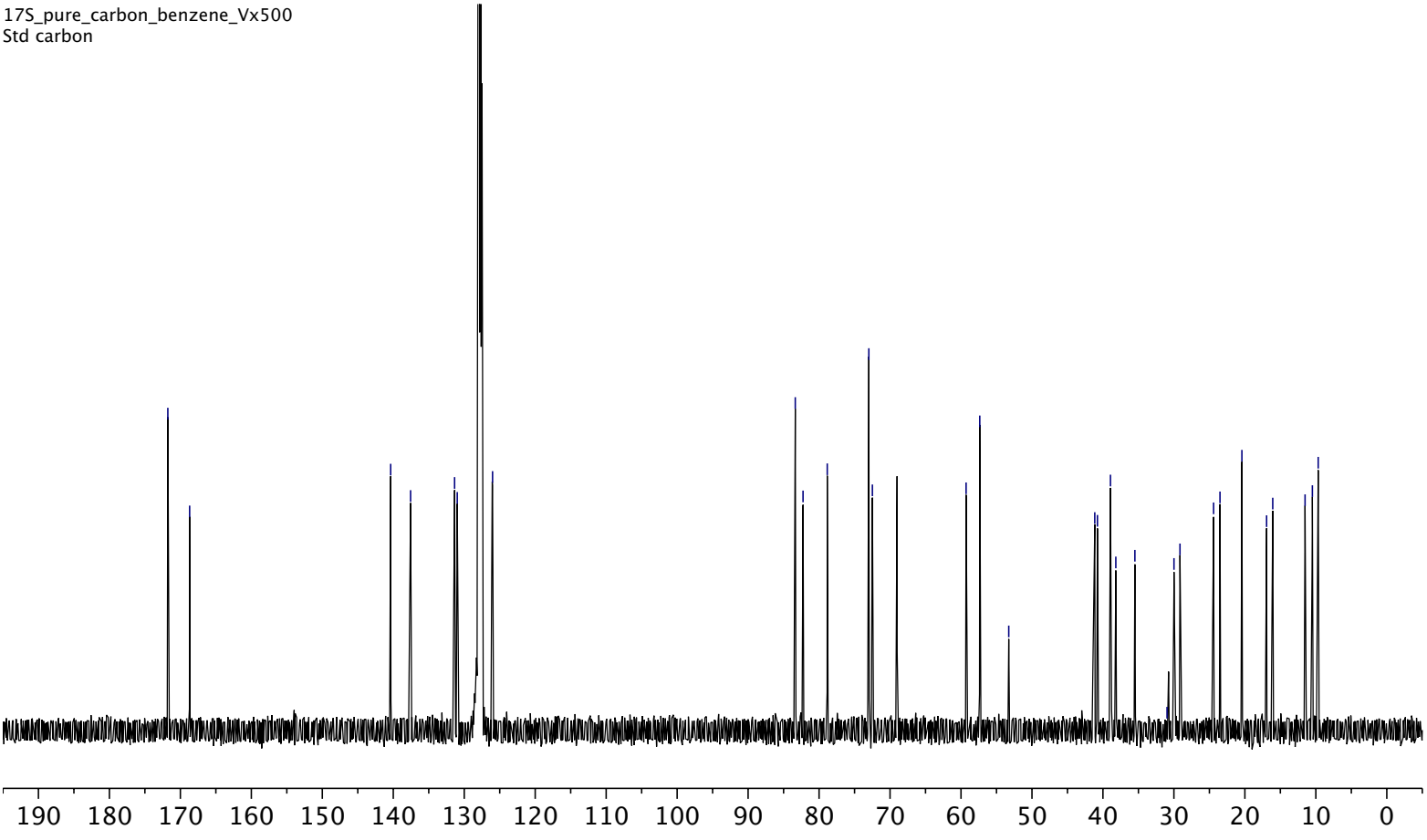


$^{1}H,^{13}C$-HMBC (500 MHz) spectrum of 10*R*,11*R*-FD-895 (**1c**) in C_6D_6

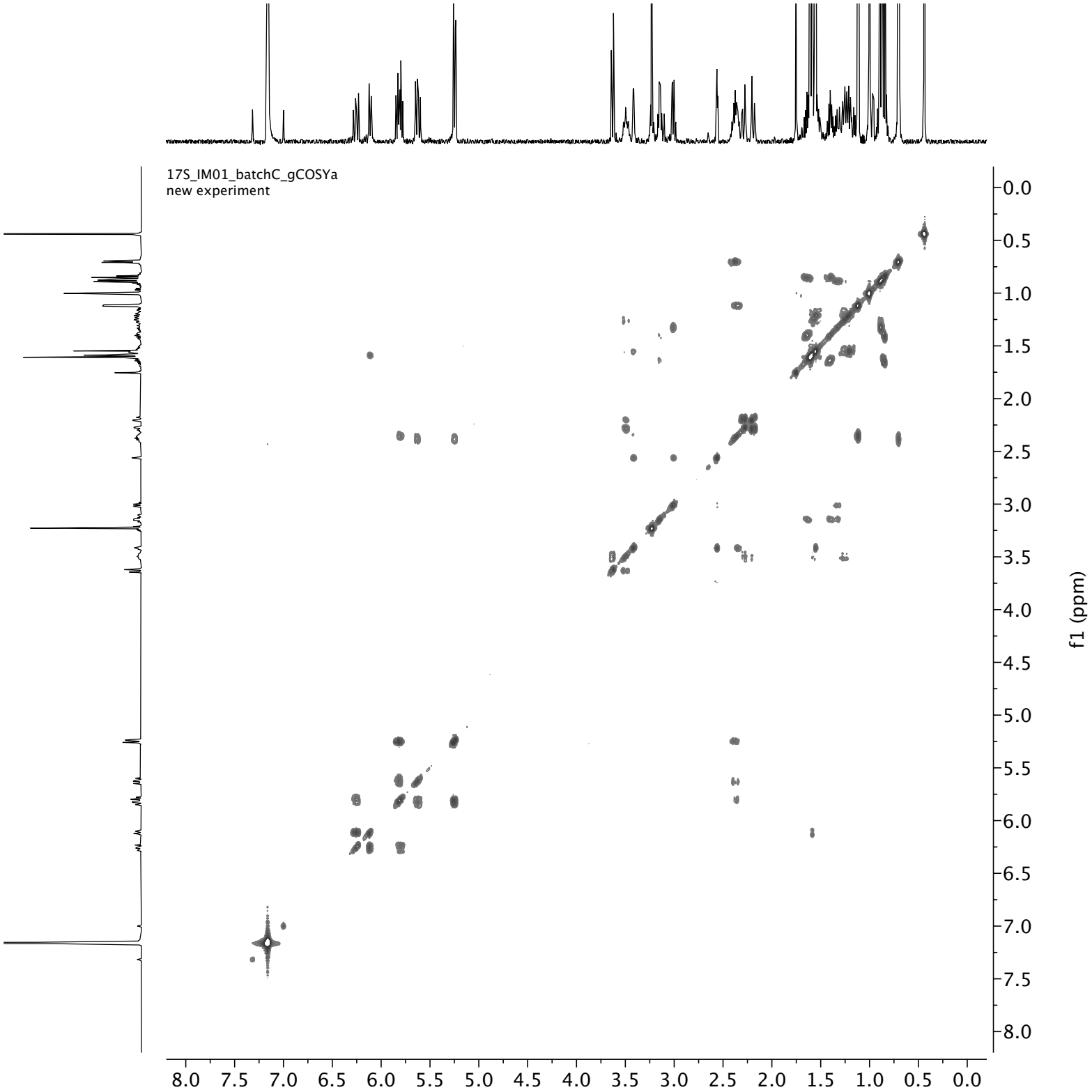


^{1}H-NMR (500 MHz) and ^{13}C-NMR (125 MHz) spectra of 17*S*-FD-895 (**1d**) in C_6D_6

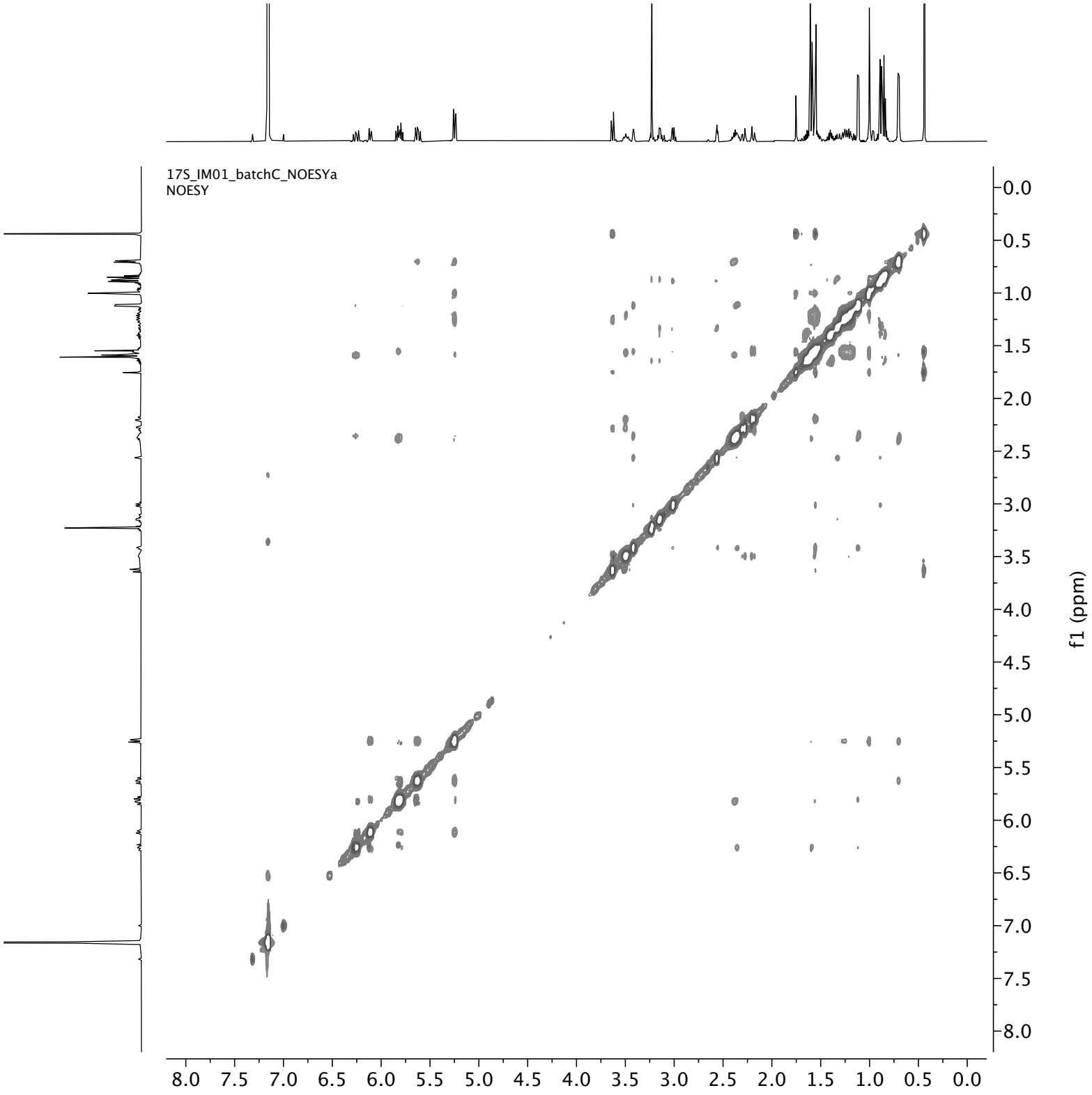




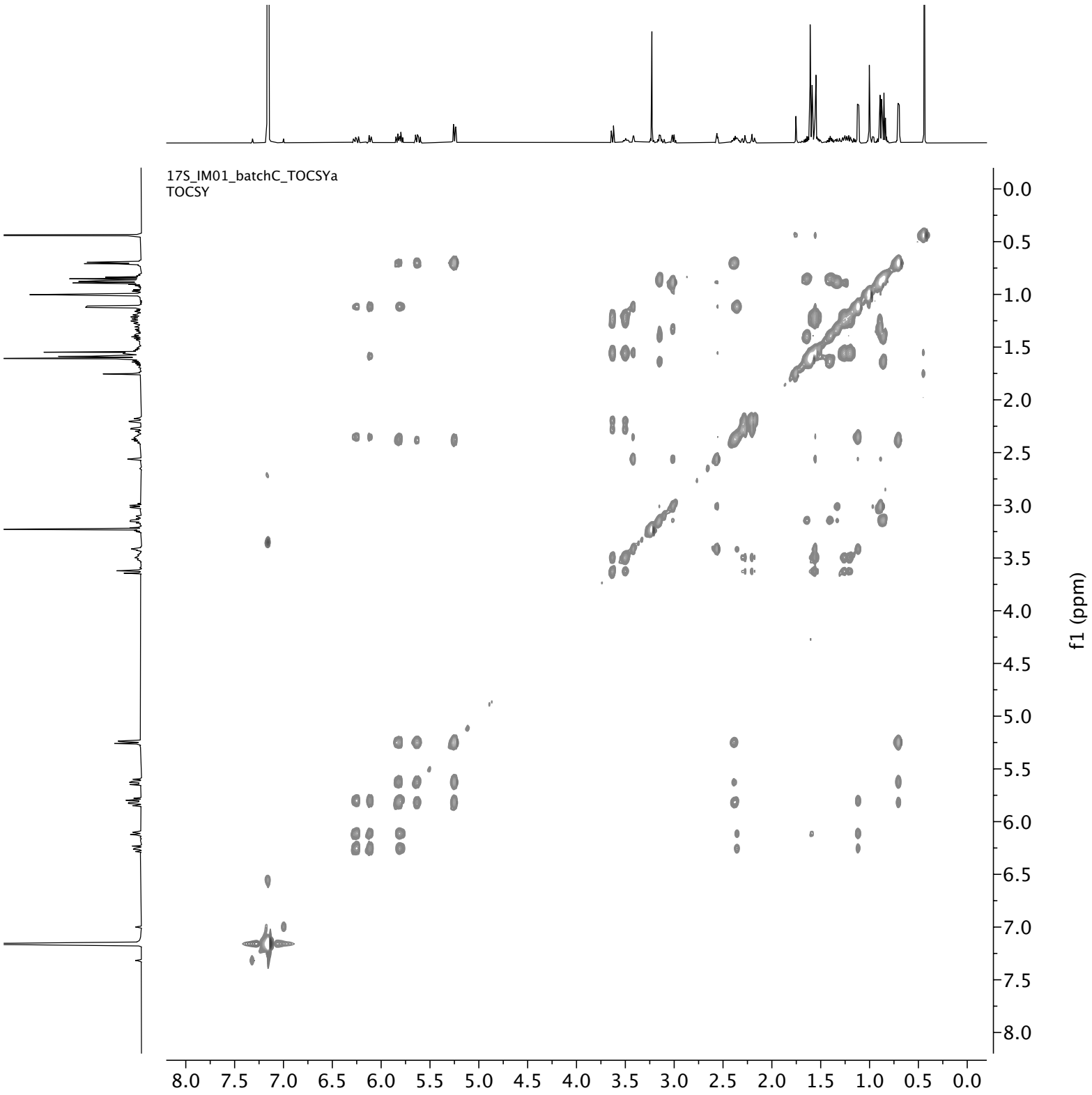
$^{1}H,^{1}H$-gCOSY (500 MHz) spectrum of 17*S*-FD-895 (**1d**) in C_6D_6



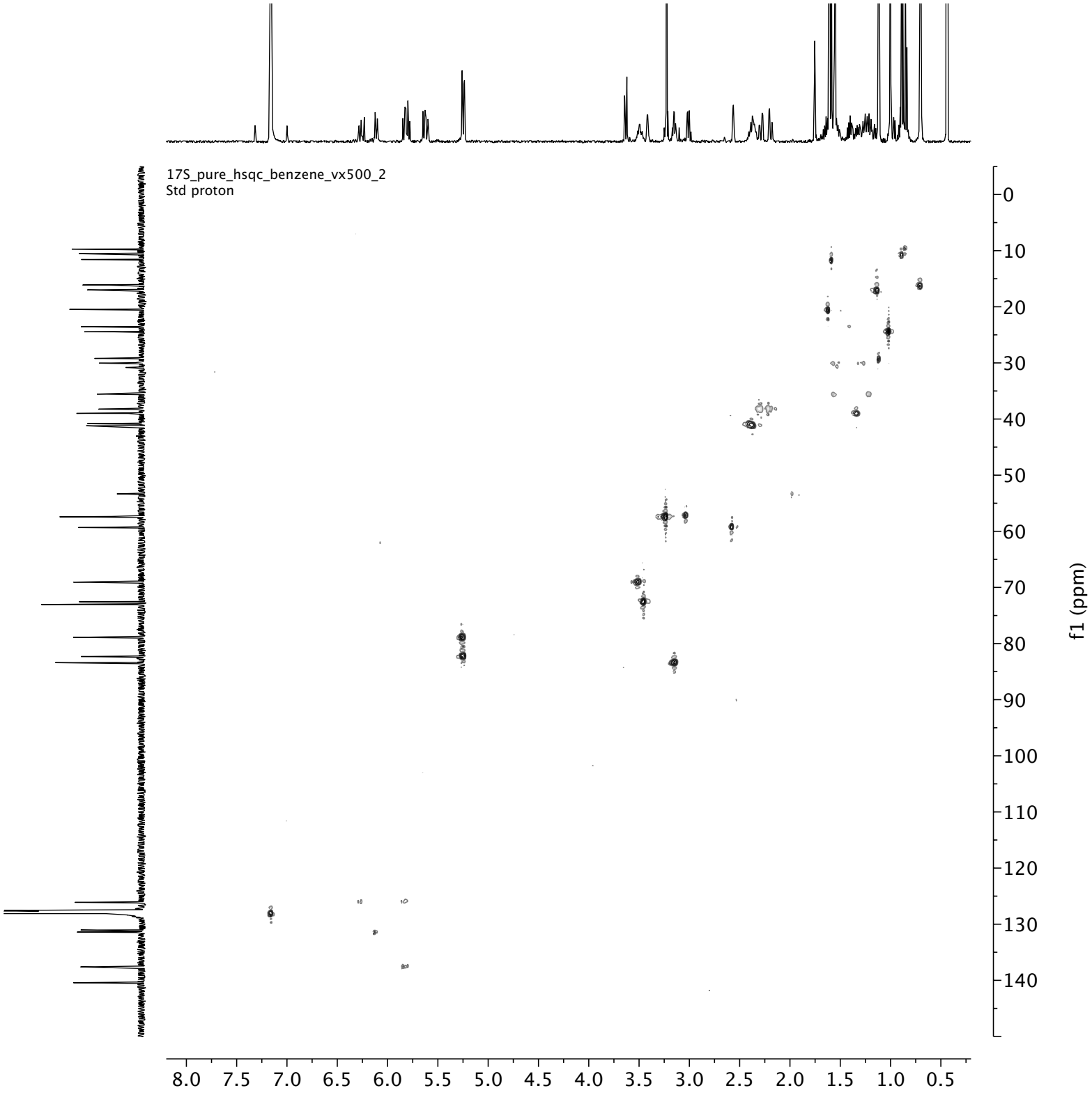
$^{1}H,^{1}H$-NOESY (500 MHz) spectrum of 17*S*-FD-895 (**1d**) in C_6D_6



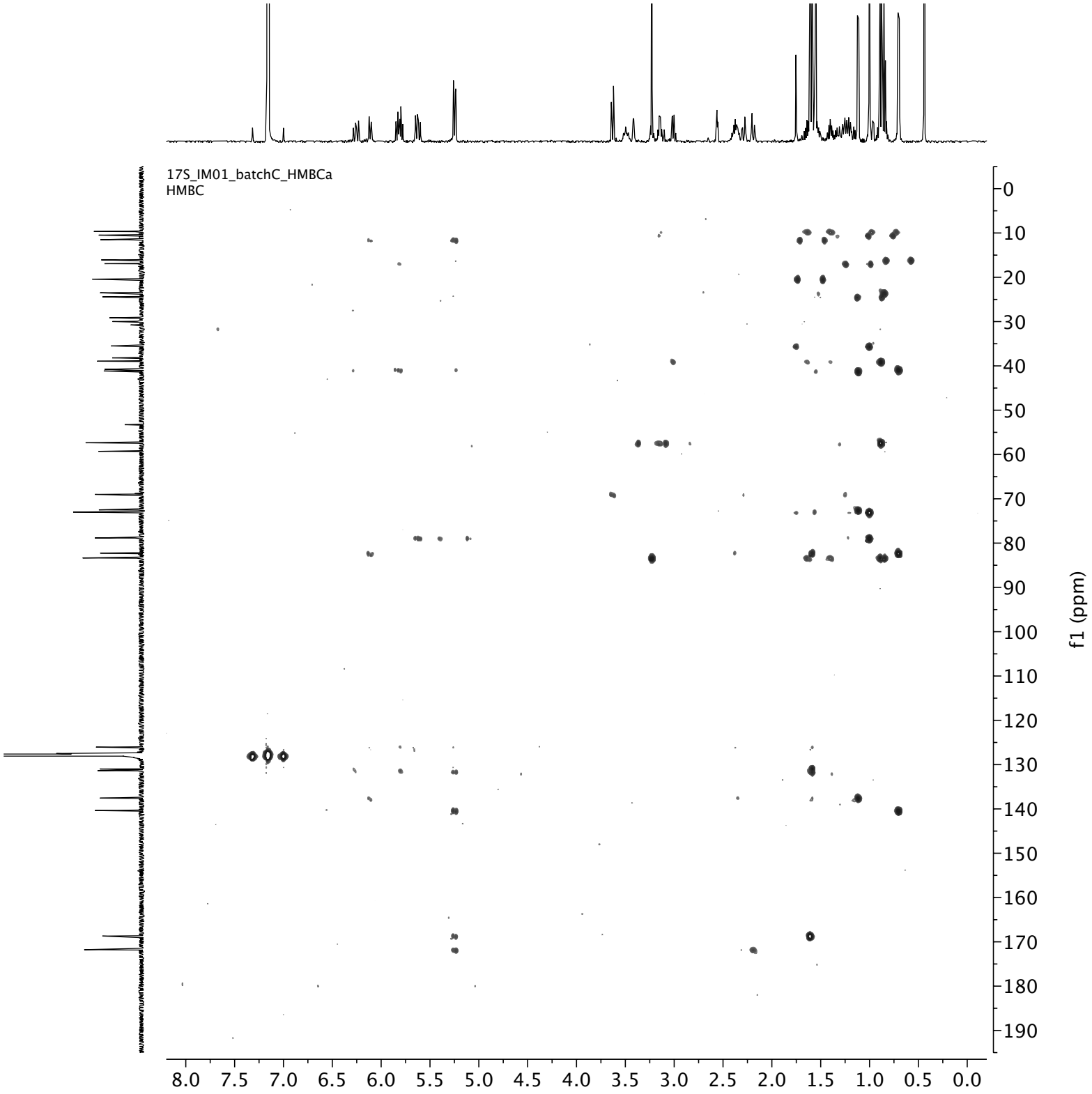
$^{1}H,^{1}H$–TOCSY (500 MHz) spectrum of 17*S*–FD–895 (**1d**) in C_6D_6



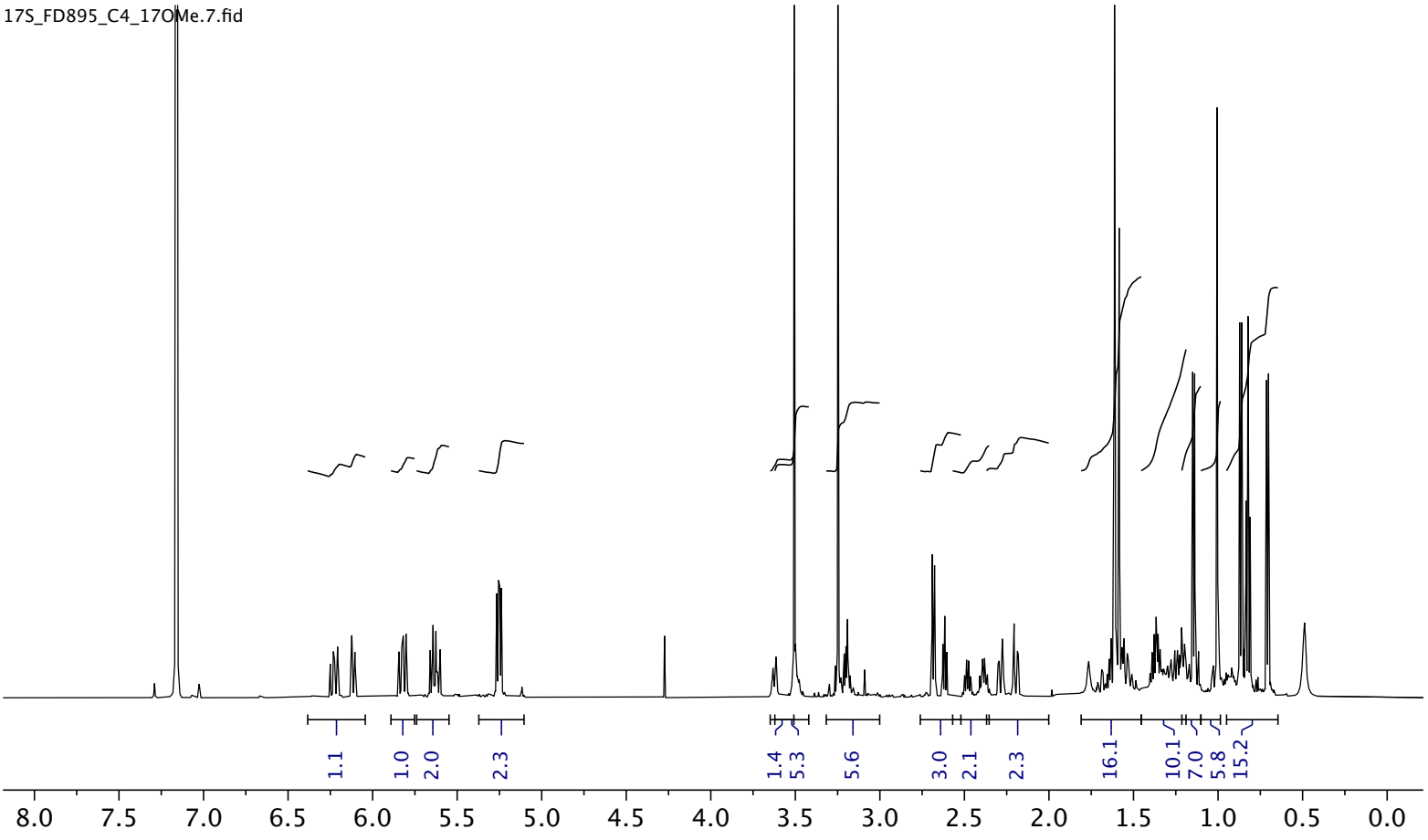
$^{1}H,^{13}C$-HSQC (500 MHz) spectrum of17*S*-FD-895 (**1d**) in C_6D_6

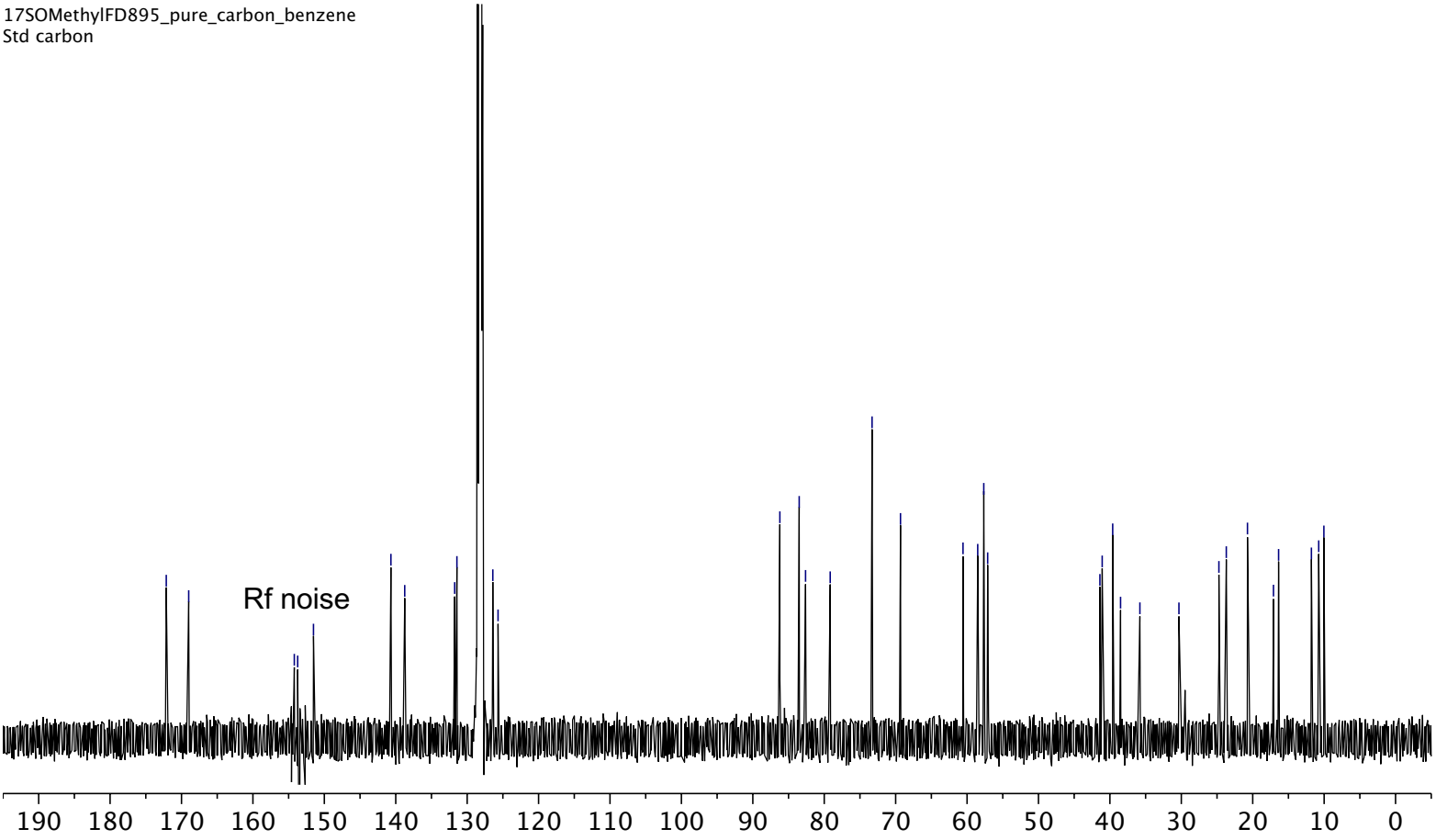


$^{1}H,^{13}C$–HSQC (500 MHz) spectrum of 17*S*–FD–895 (**1d**) in C_6D_6

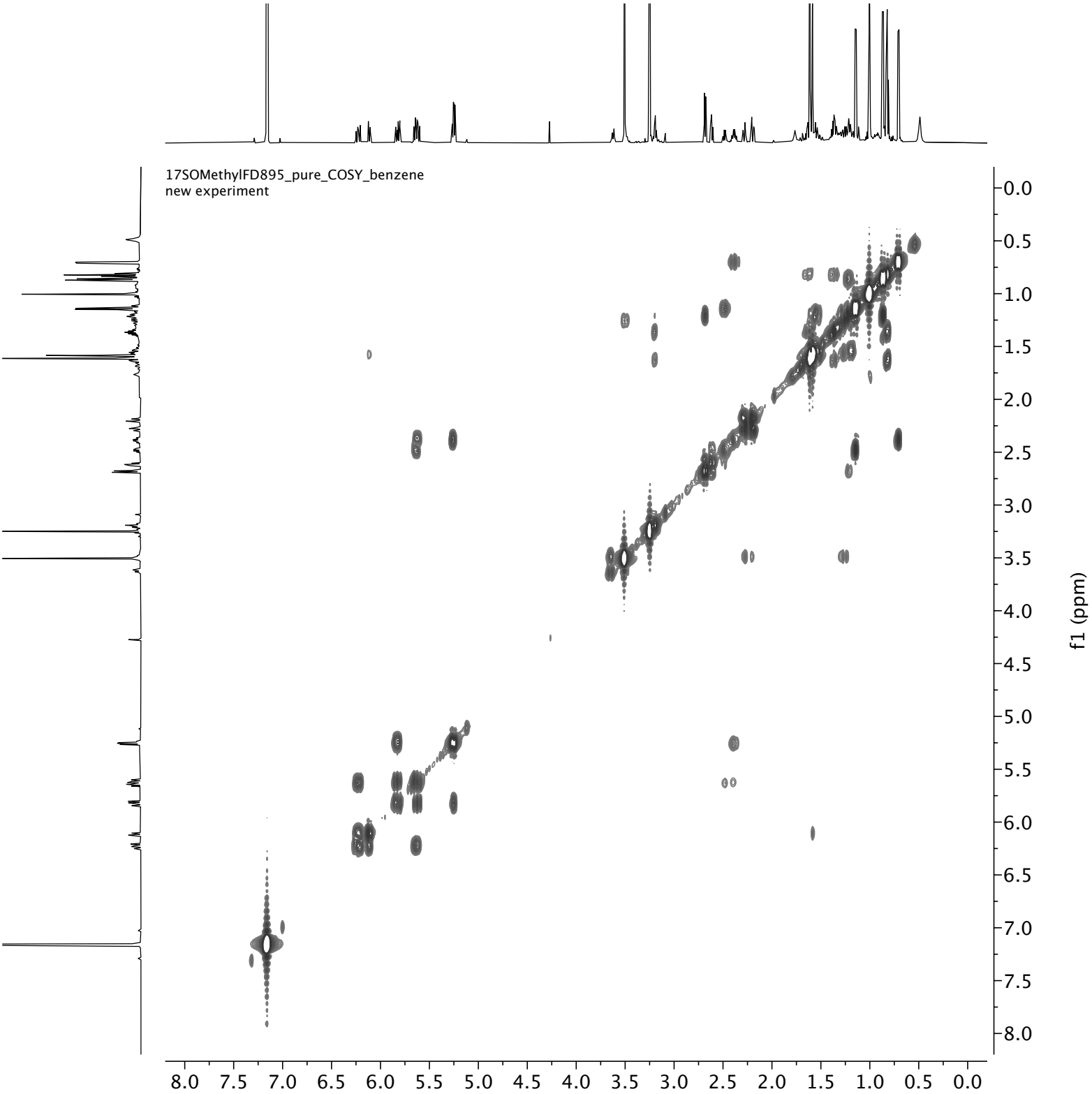


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 17-*O*-methyl-FD-895 (**1e**) in C_6D_6

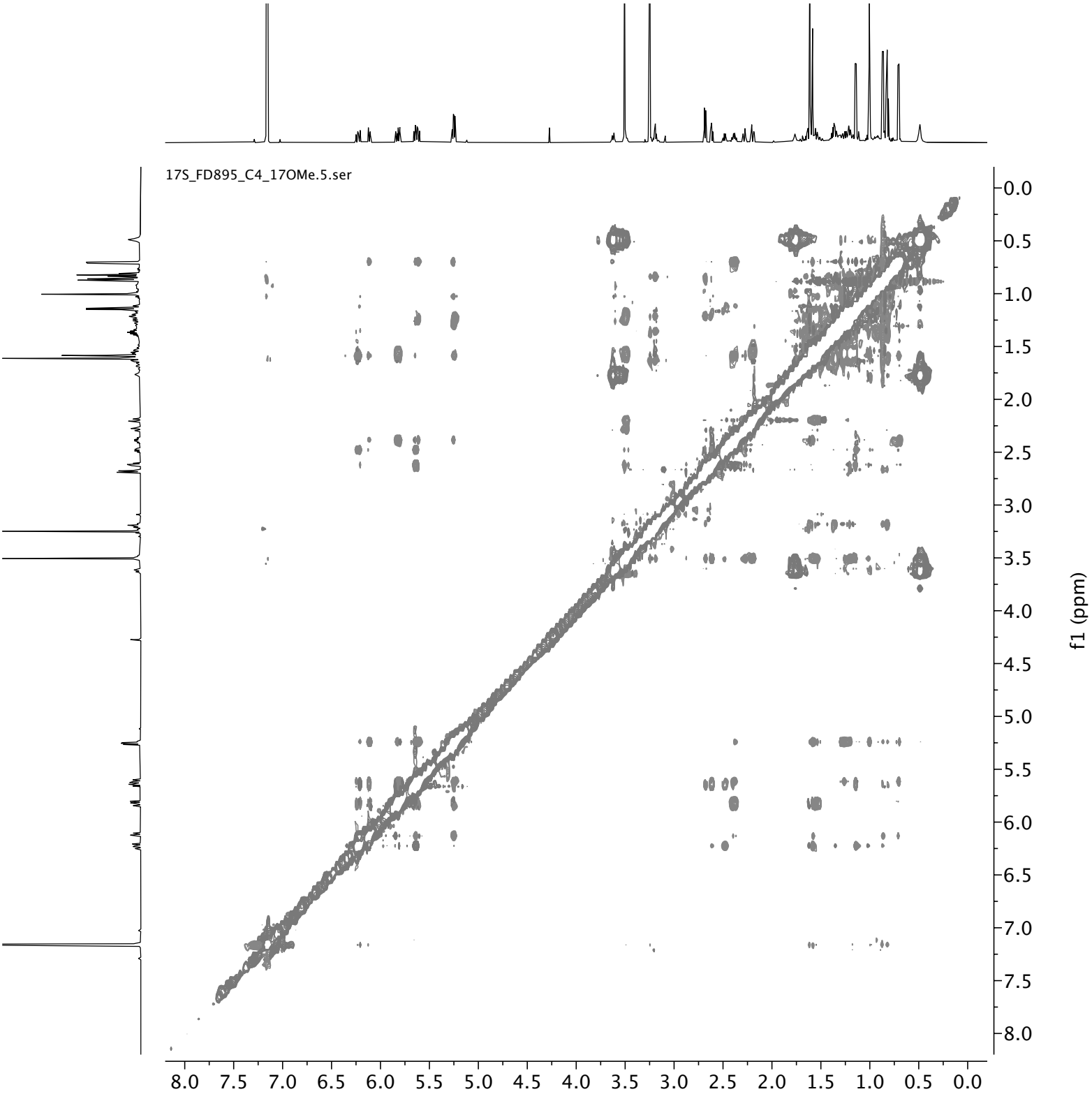




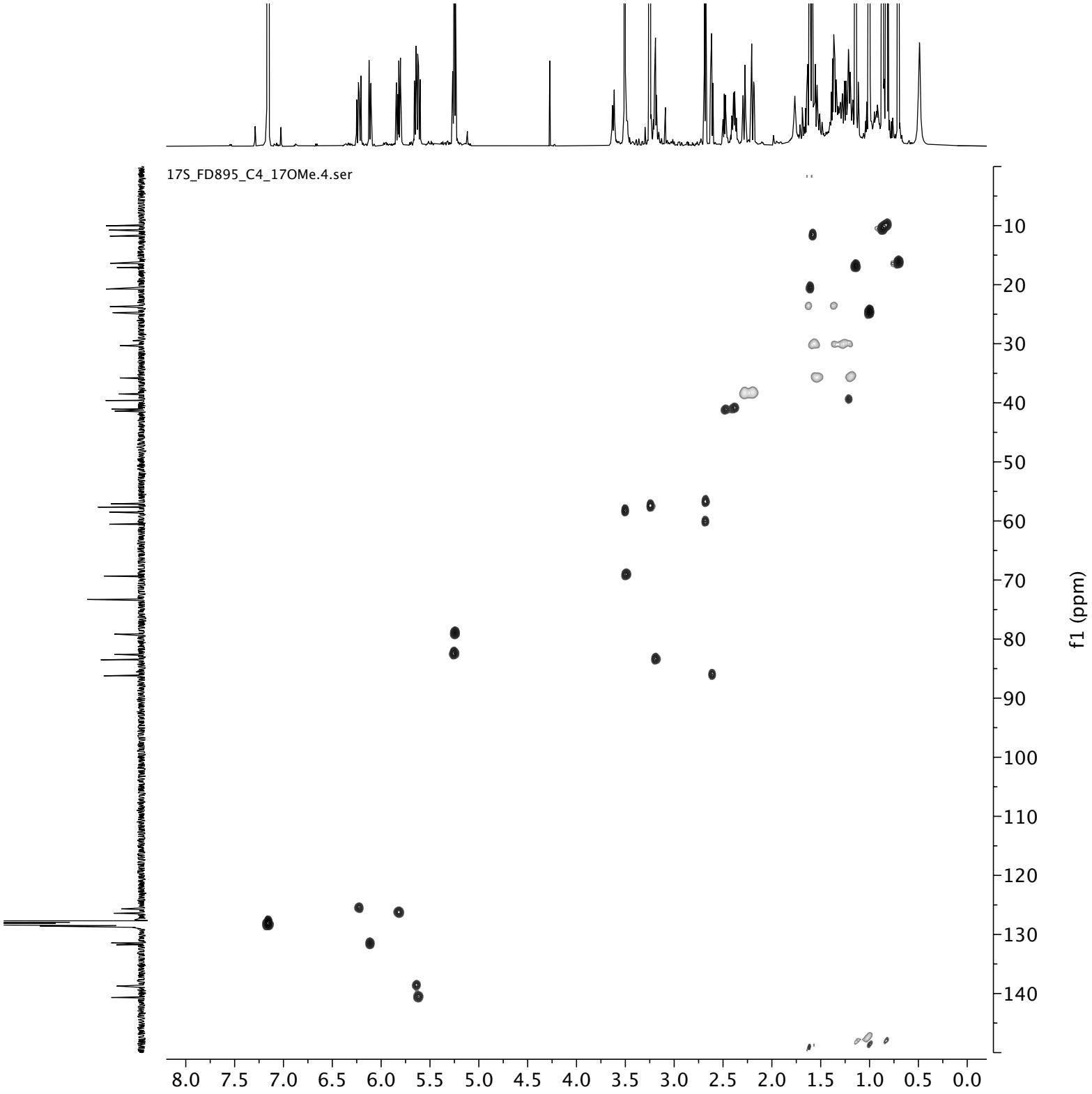
$^{1}H,^{1}H$-COSY (500 MHz) spectrum of 17-O-methyl-FD-895 (**1e**) in C_6D_6



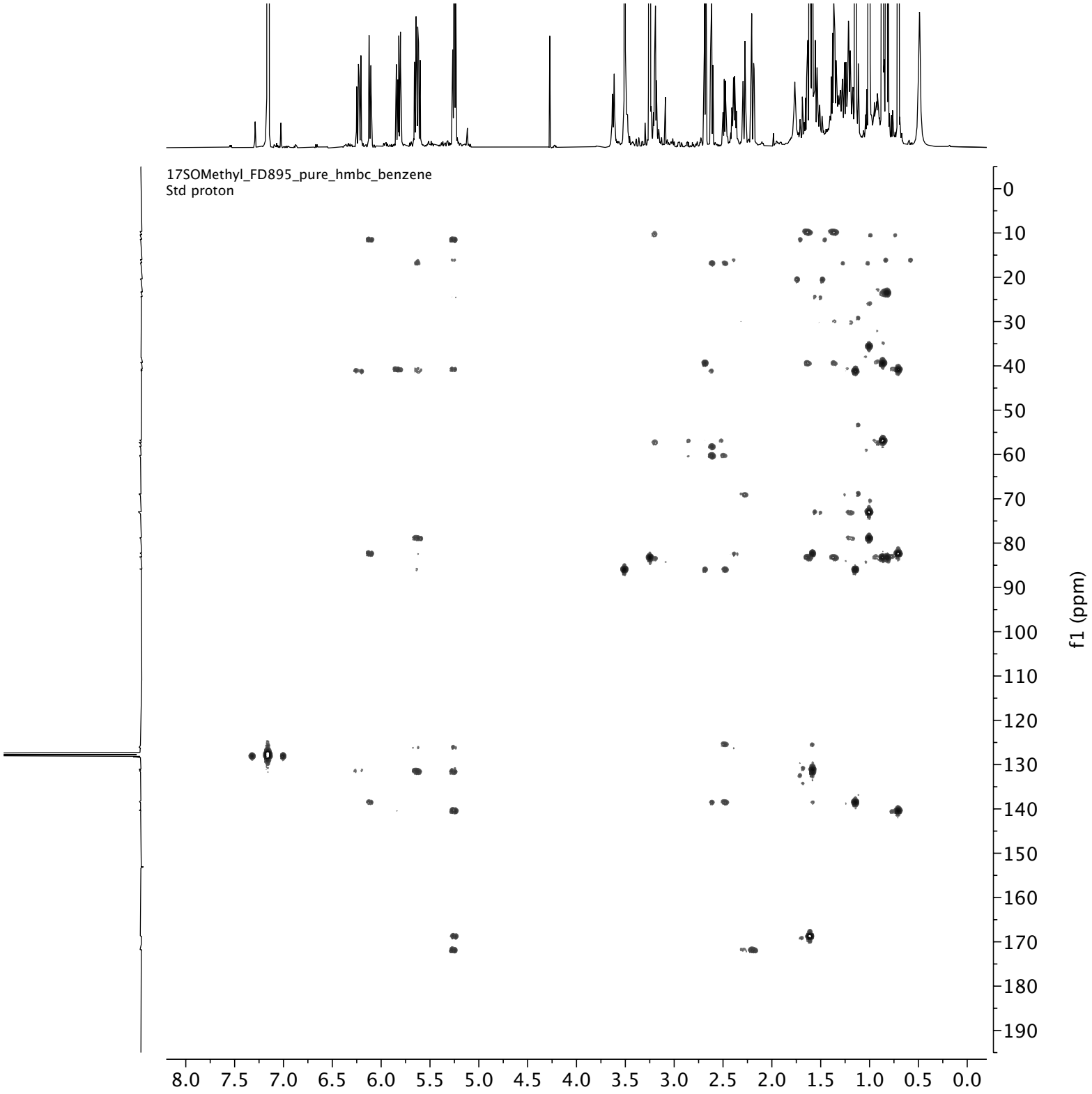
$^{1}H,^{1}H$-NOESY (600 MHz) spectrum of 17-*O*-methyl-FD-895 (**1e**) in C_6D_6



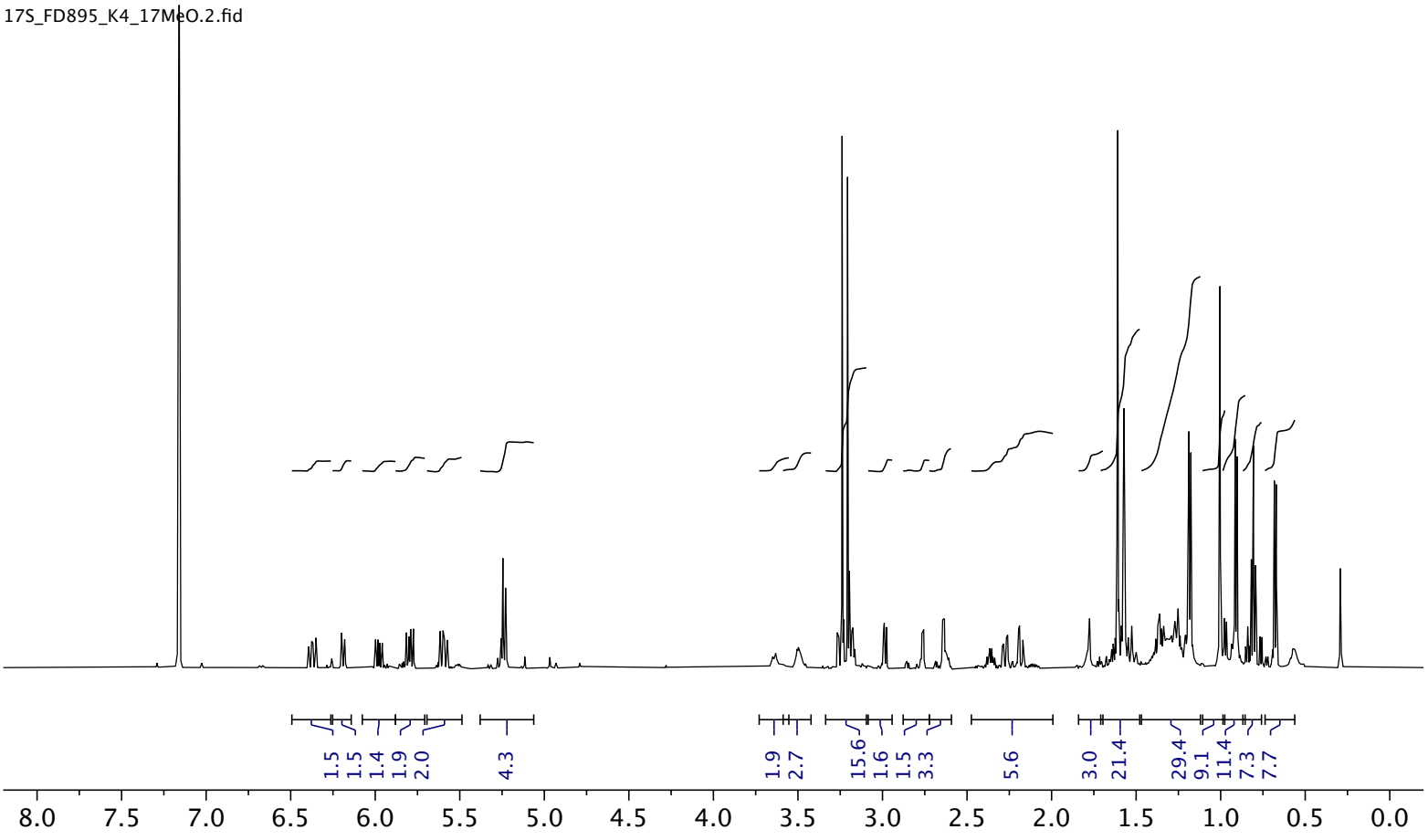
$^{1}H,^{13}C$-HSQC (600 MHz) spectrum of 17-O-methyl-FD-895 (**1e**) in C_6D_6

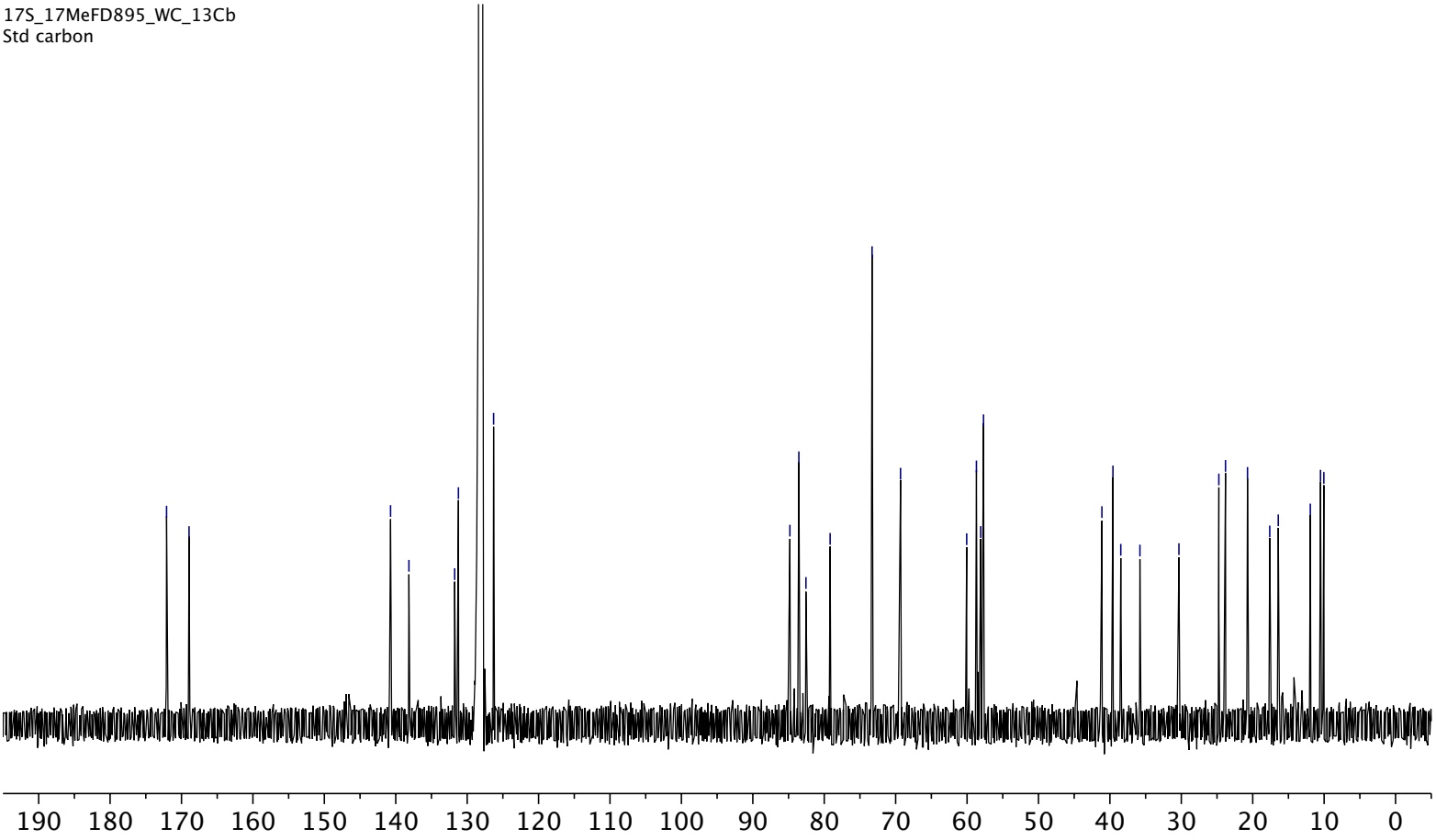


$^{1}H,^{13}C$-HMBC (600 MHz) spectrum of 17-O-methyl-FD-895 (**1e**) in C_6D_6

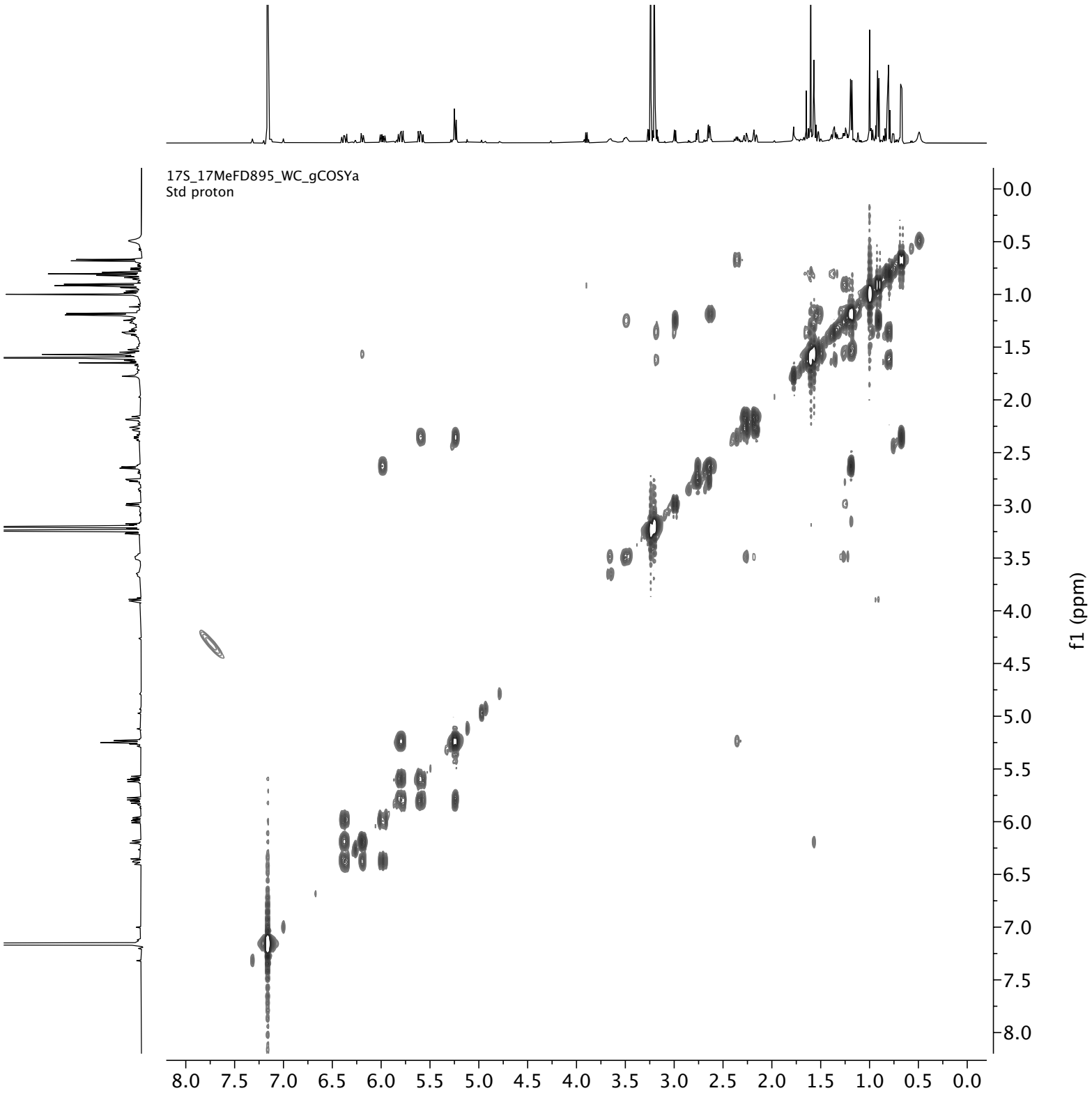


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 17-O-methyl-17*S*-FD-895 (**1f**) in C_6D_6

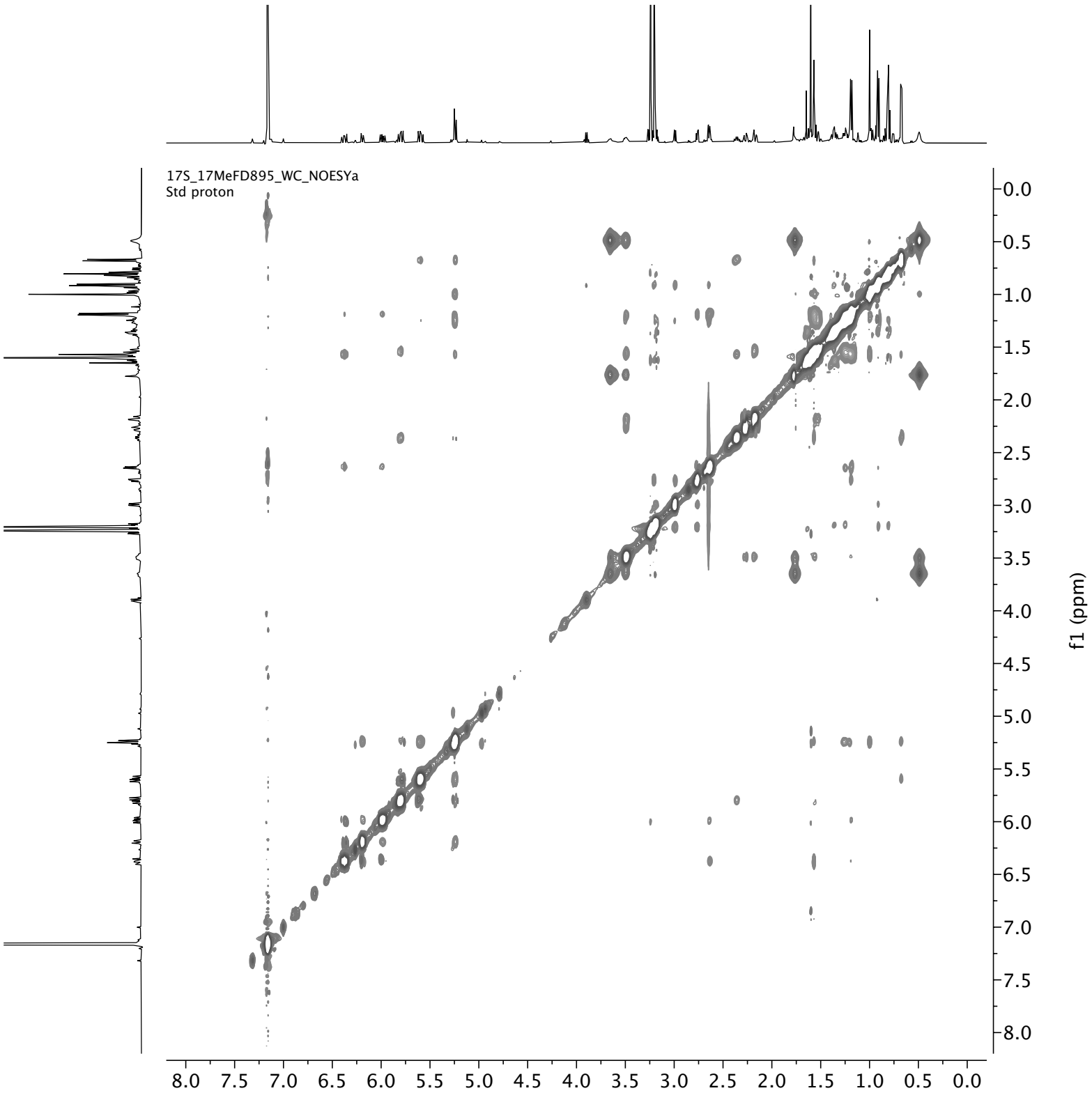




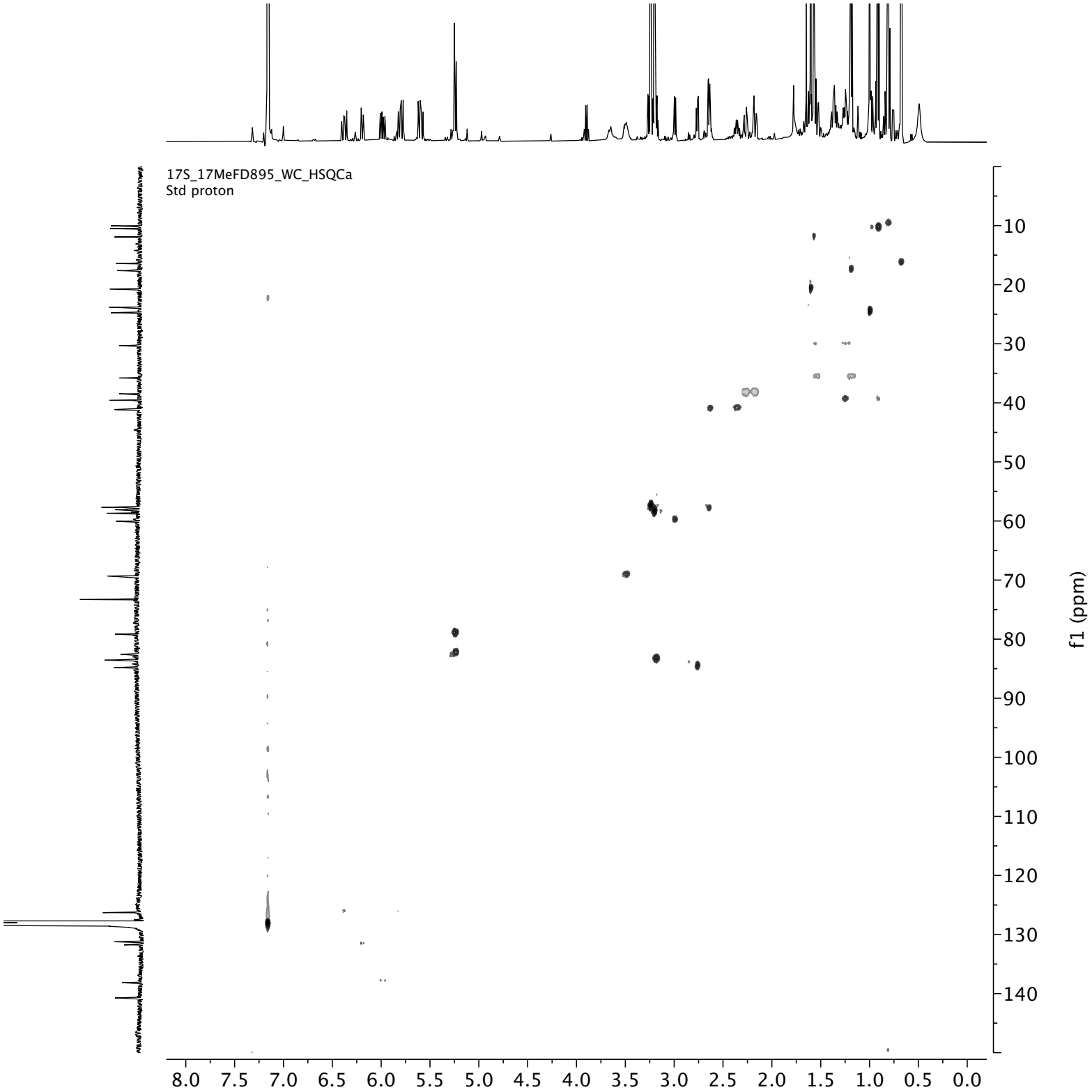
^{1}H,^{1}H-COSY (500 MHz) spectrum of 17-O-methyl-17*S*-FD-895 (**1f**) in C_6D_6



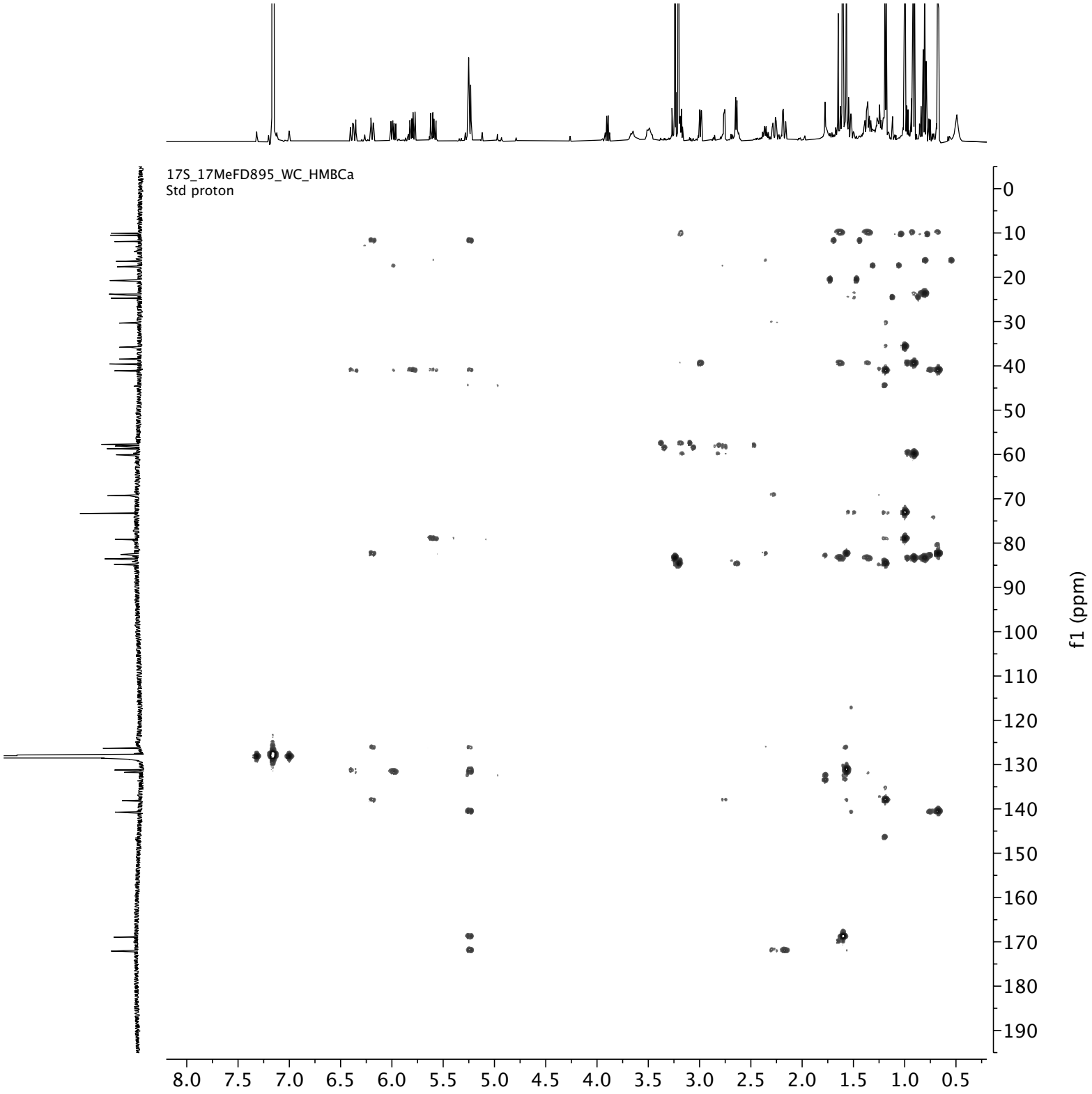
$^{1}H,^{1}H$-NOESY (500 MHz) spectrum of 17-O-methyl-17*S*-FD-895 (**1f**) in C_6D_6



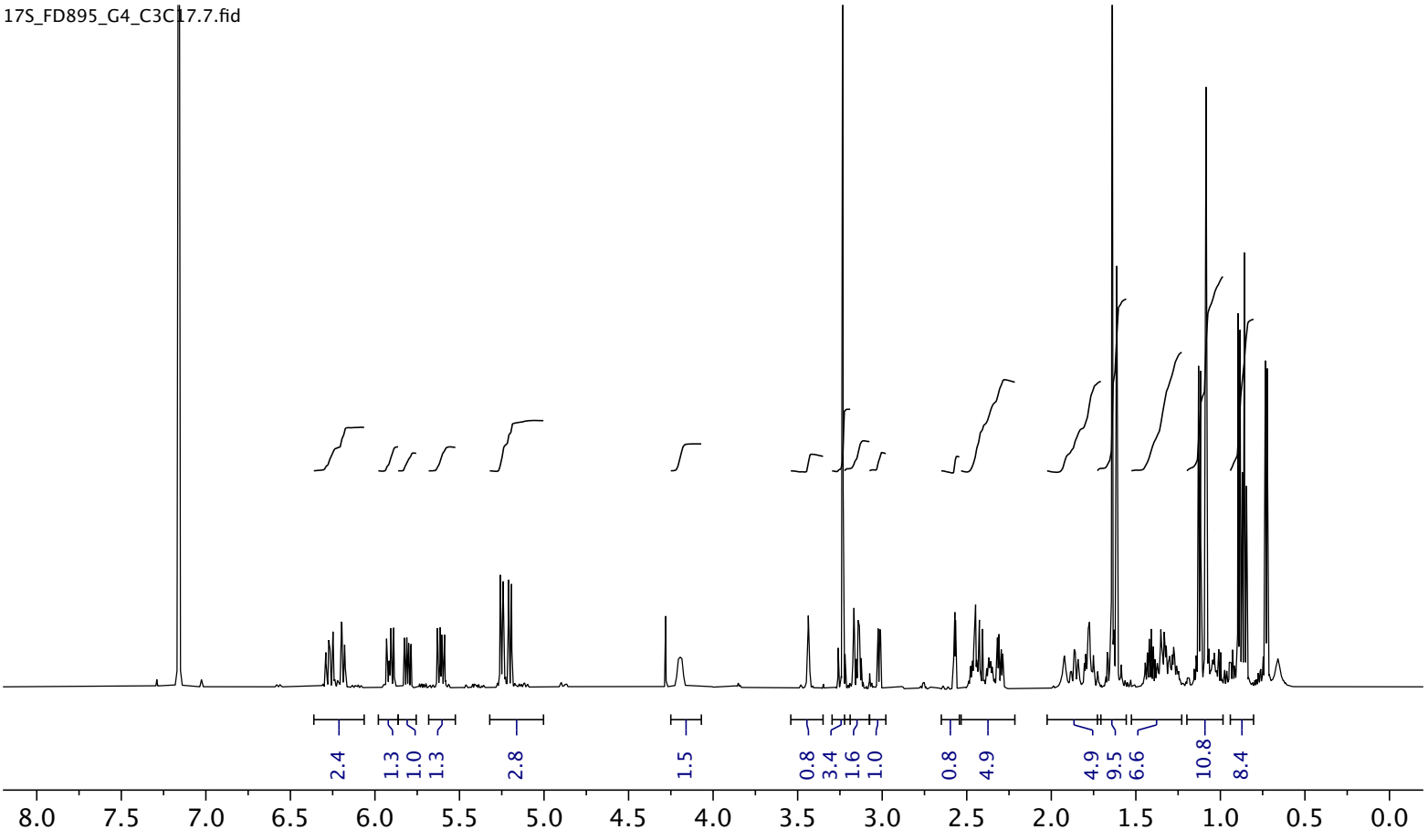
$^{1}H,^{13}C$-HSQC (500 MHz) spectrum of 17-O-methyl-17*S*-FD-895 (**1f**) in C_6D_6

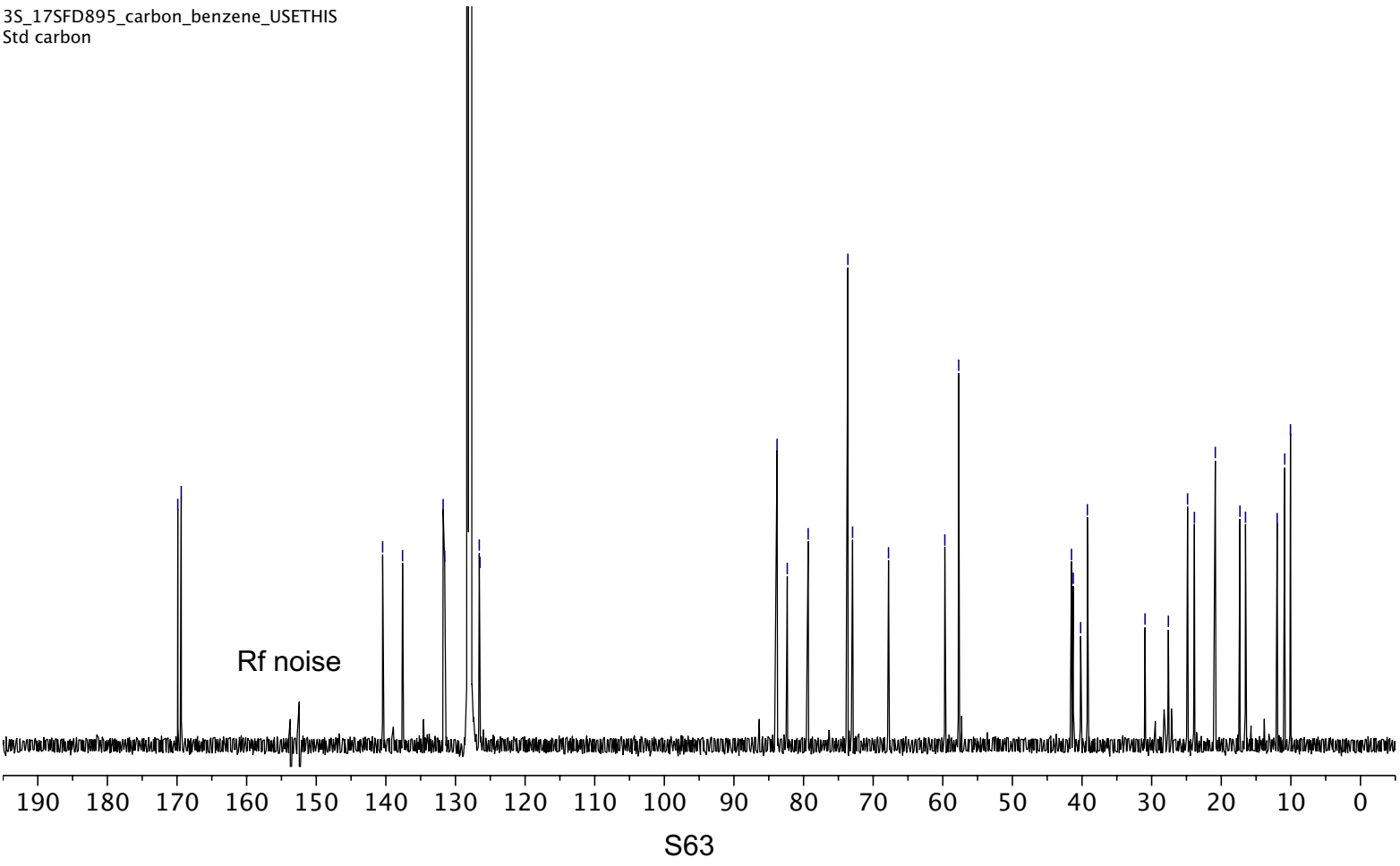


$^{1}H,^{13}C$-HMBC (500 MHz) spectrum of 17-O-methyl-17*S*-FD-895 (**1f**) in C_6D_6

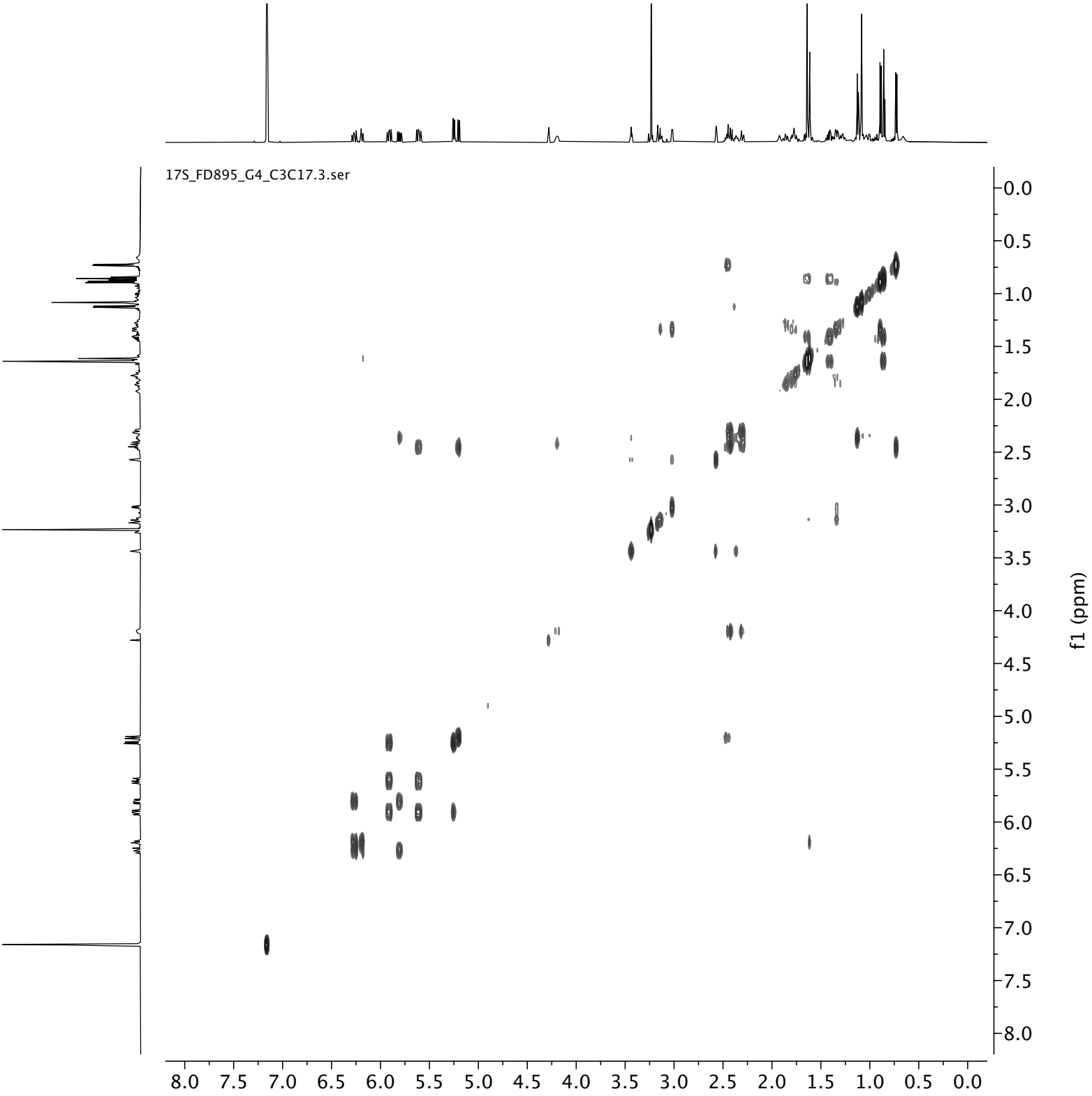


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 3*S*,17*S*-FD-895 (**1g**) in C_6D_6

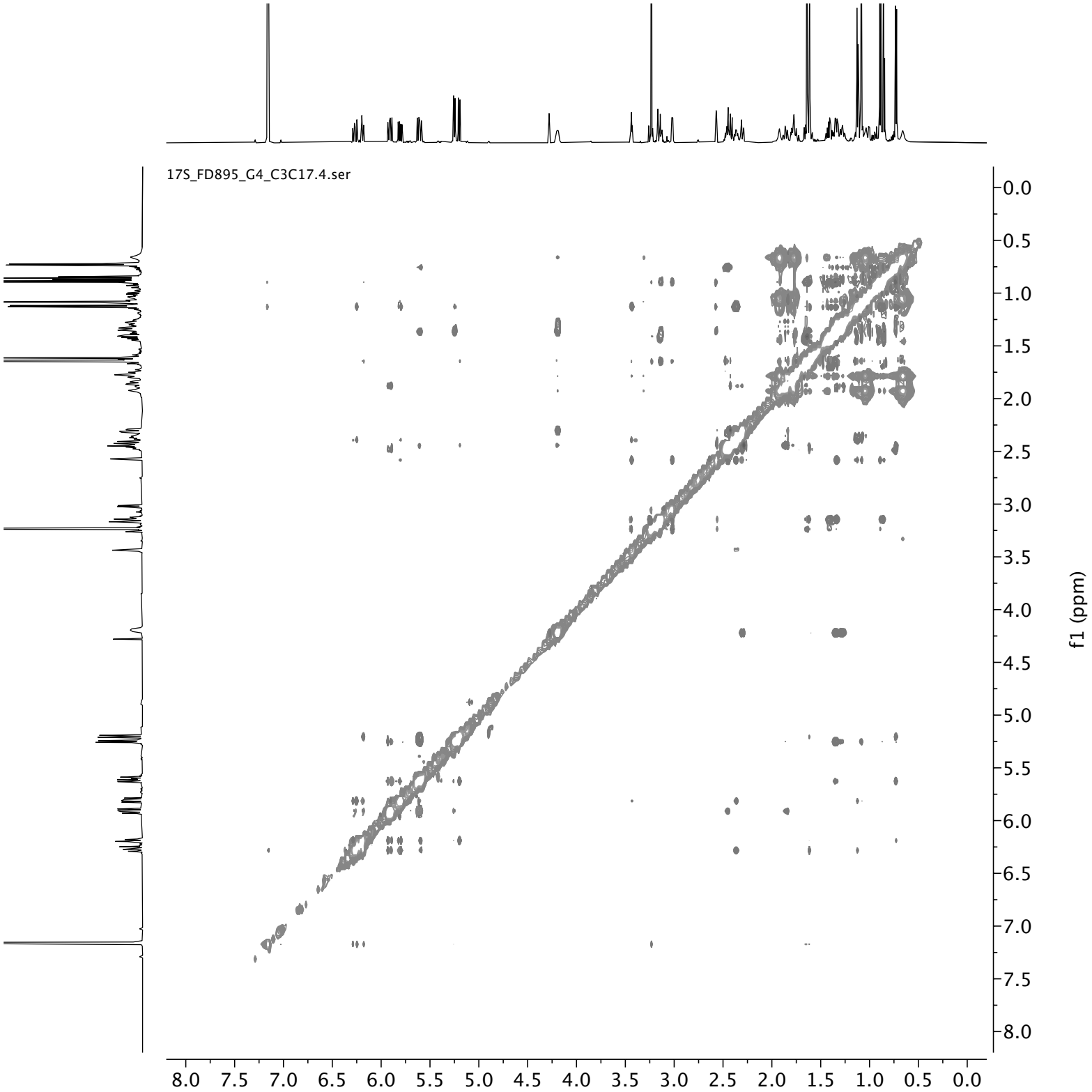




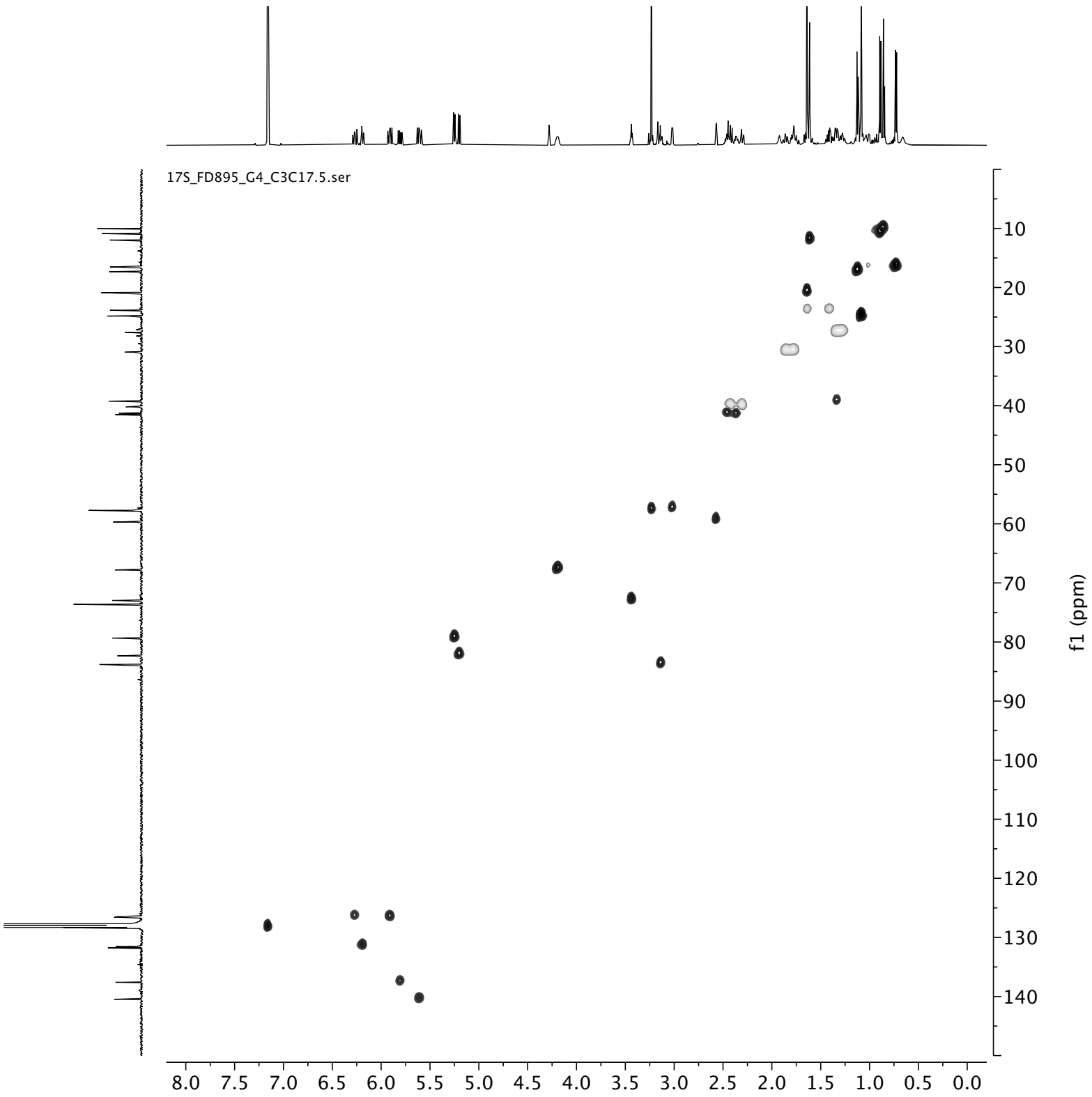
^{1}H,^{1}H–COSY (600 MHz) spectrum of 3*S*,17*S*–FD–895 (**1g**) in C_6D_6



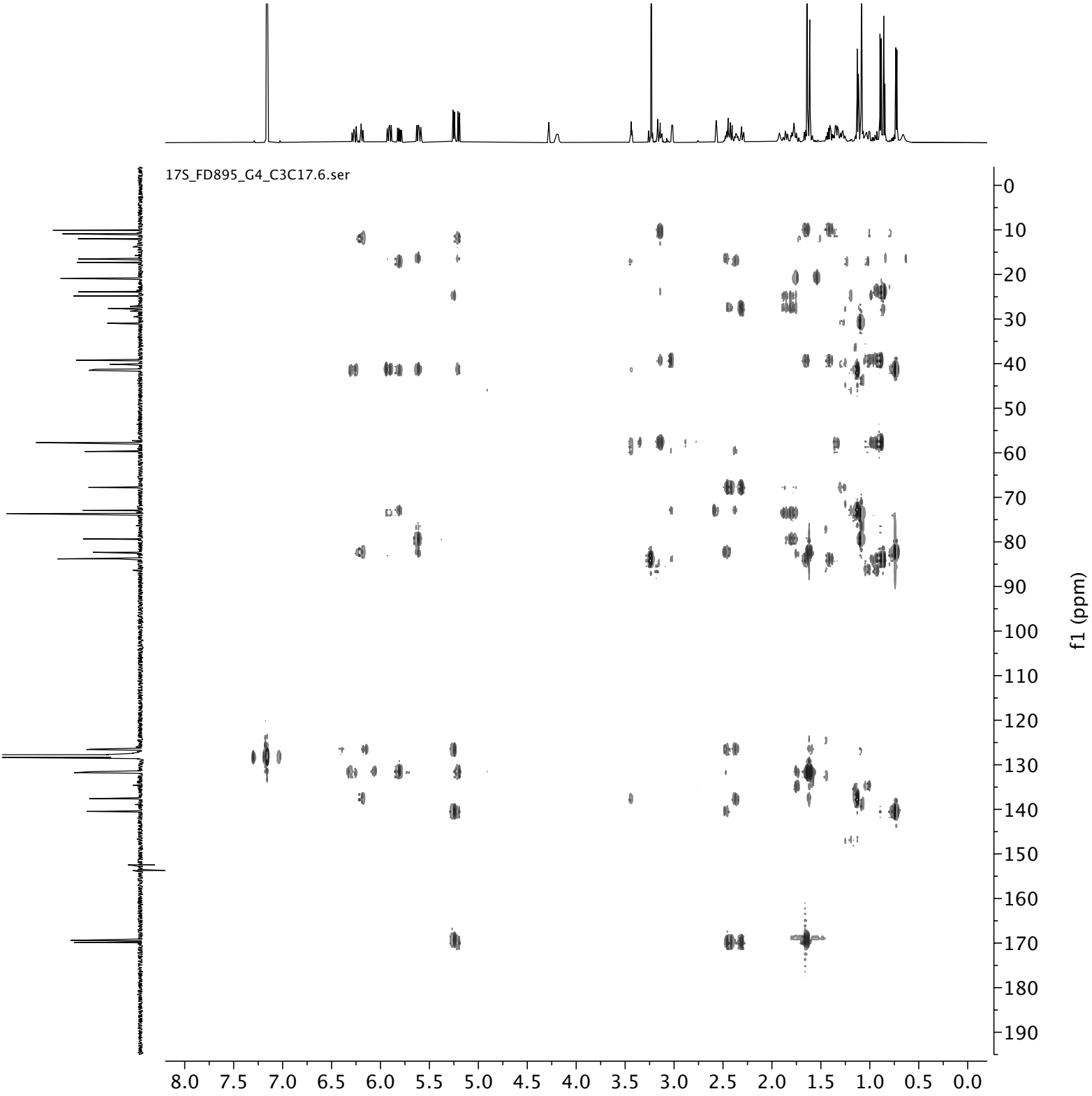
^{1}H,^{1}H–NOESY (600 MHz) spectrum of 3*S*,17*S*–FD–895 (**1g**) in C_6D_6



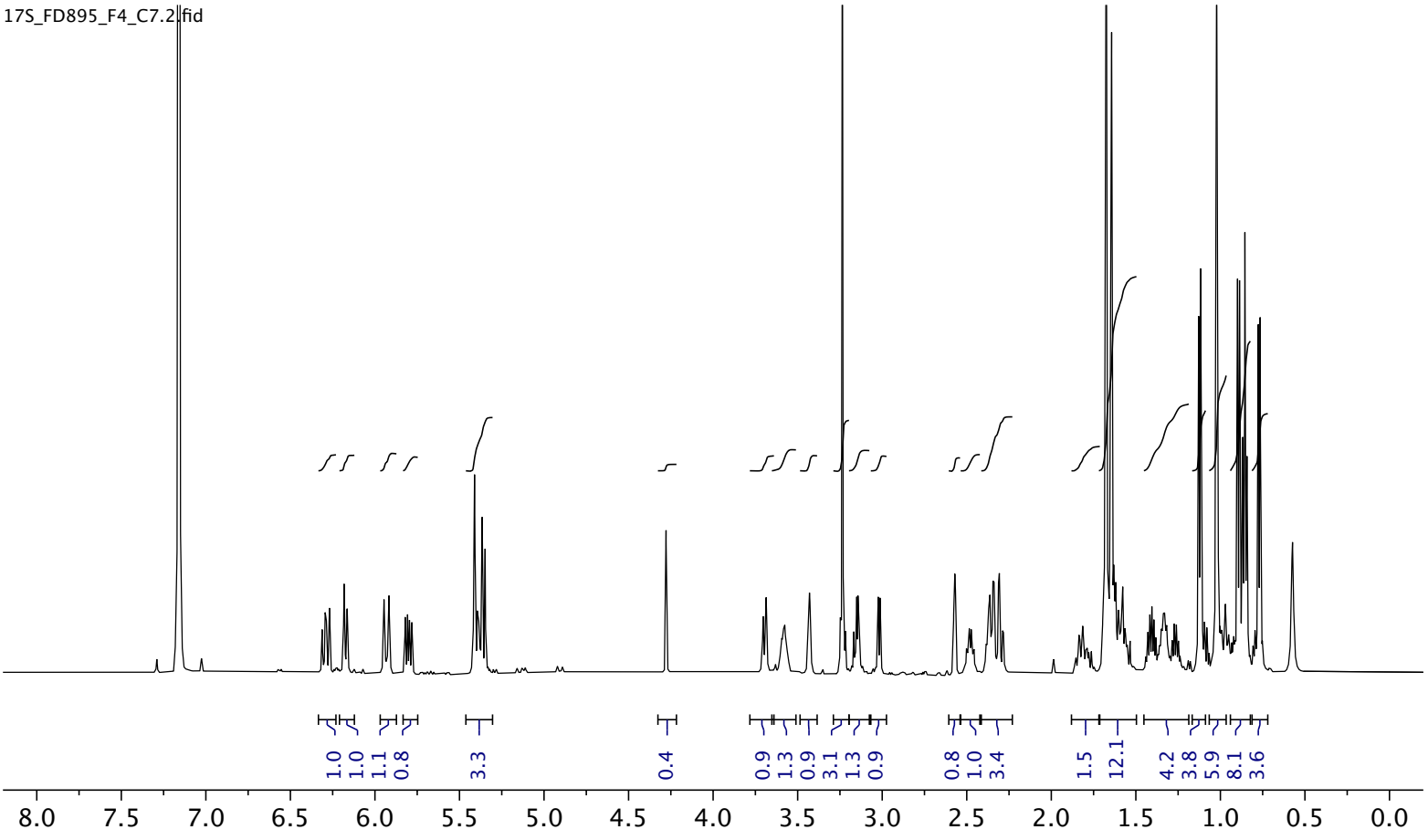
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 3*S*,17*S*–FD–895 (**1g**) in C_6D_6

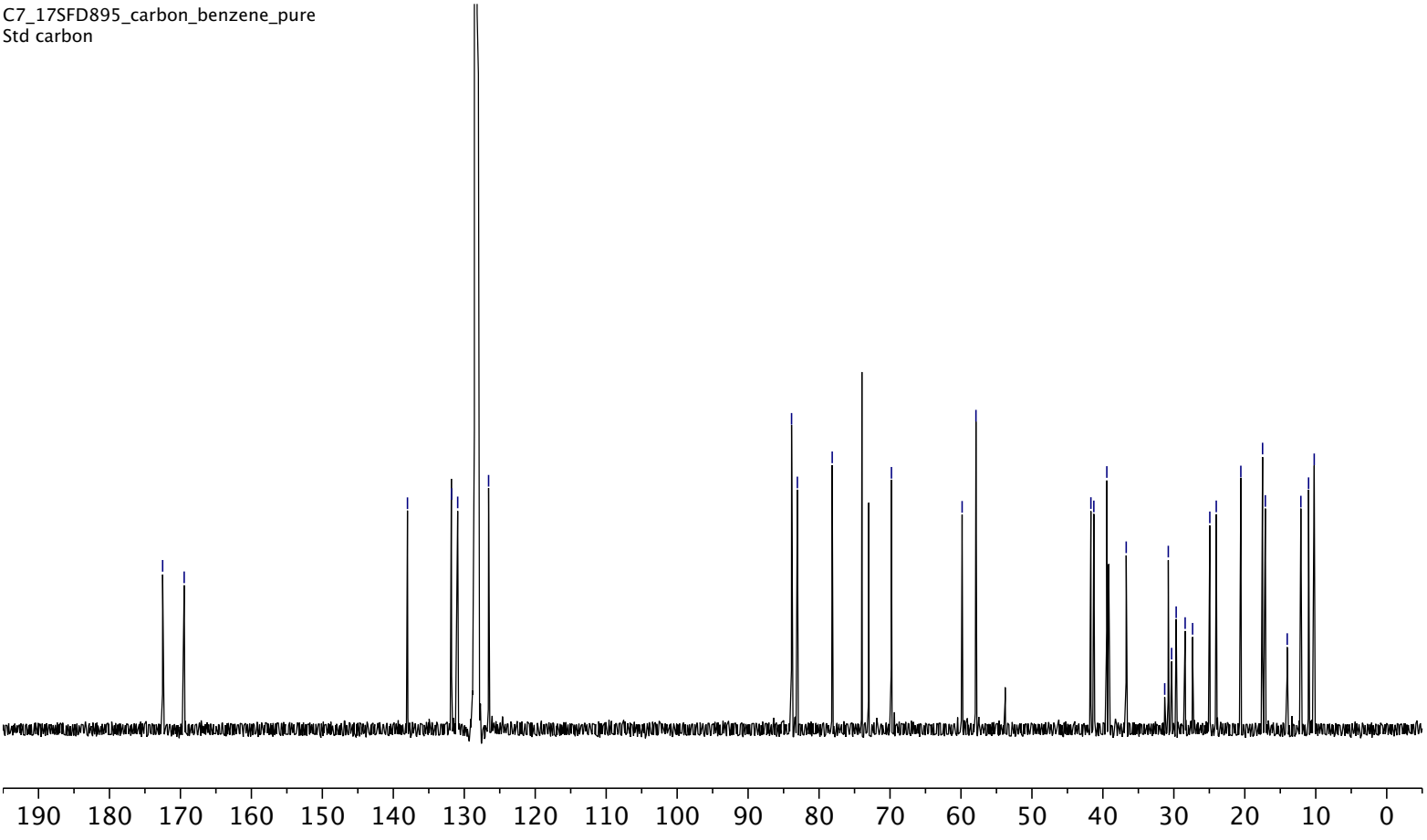


$^{1}H,^{13}C$–HMBC (600 MHz) spectrum of 3*S*,17*S*–FD–895 (**1g**) in C_6D_6

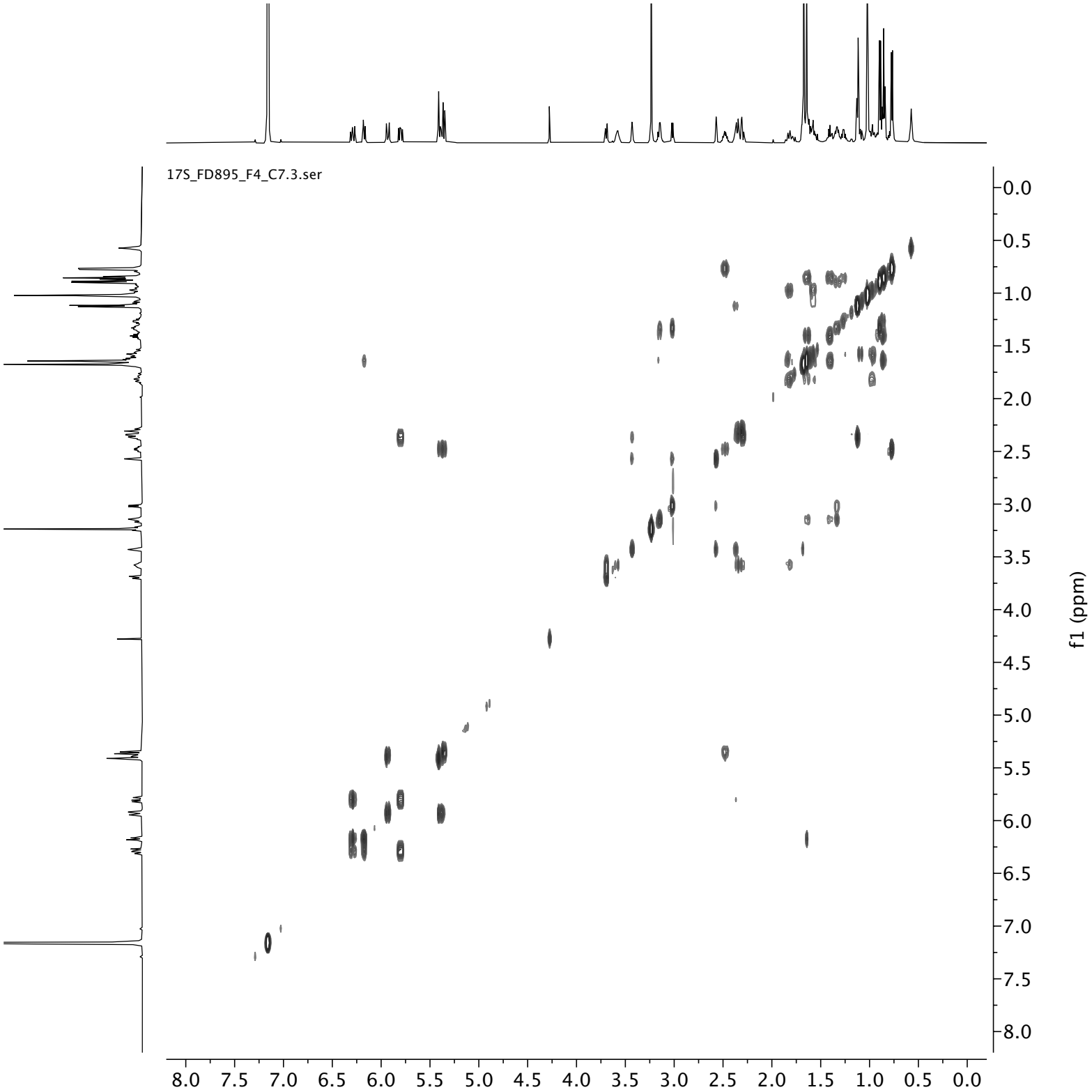


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 7*S*,17*S*-FD-895 (**1h**) in C_6D_6

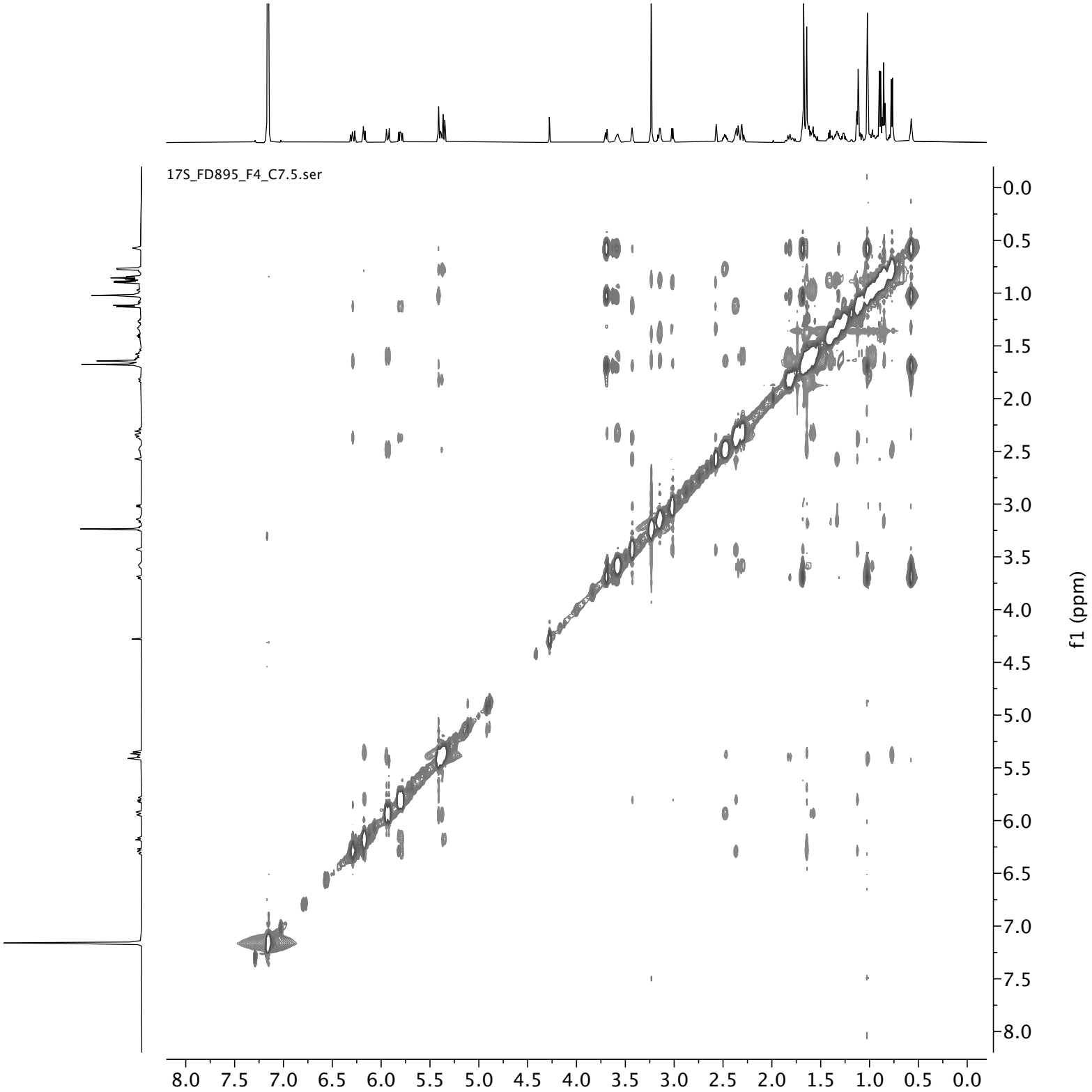




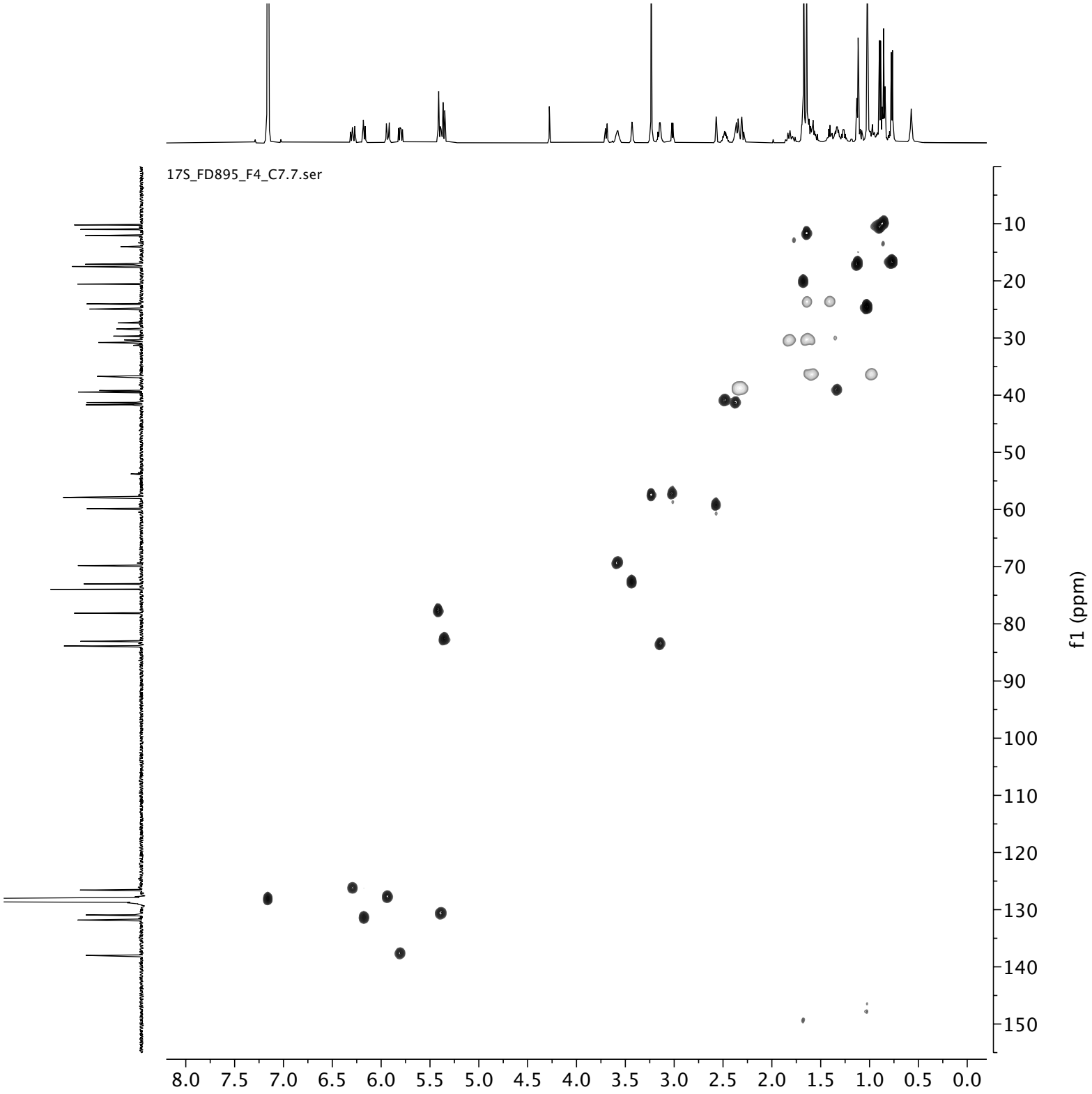
^{1}H,^{1}H–COSY (600 MHz) spectrum of 7*S*,17*S*–FD–895 (**1h**) in C_6D_6



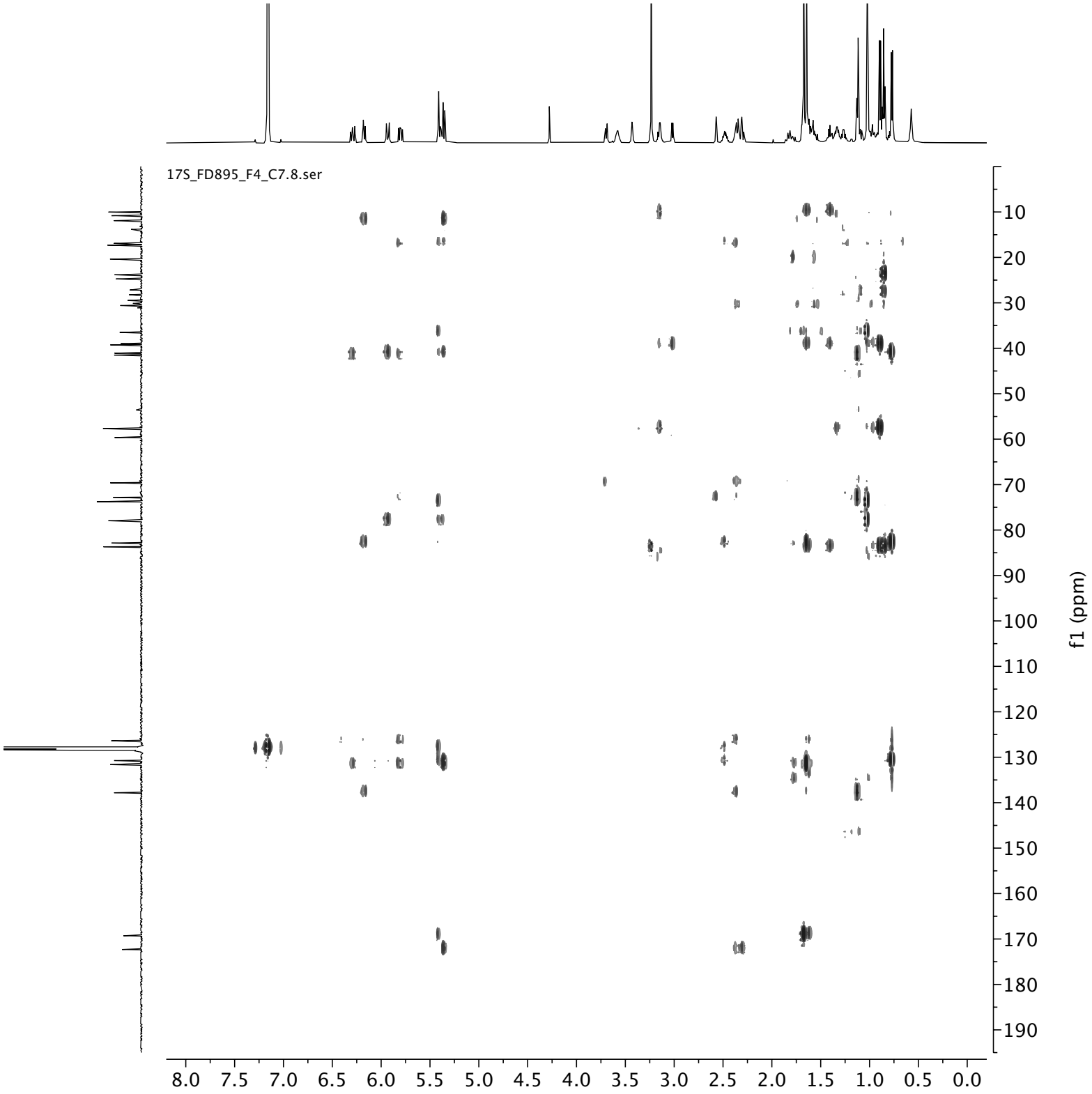
^{1}H,^{1}H–NOESY (600 MHz) spectrum of 7*S*,17*S*–FD–895 (**1h**) in C_6D_6



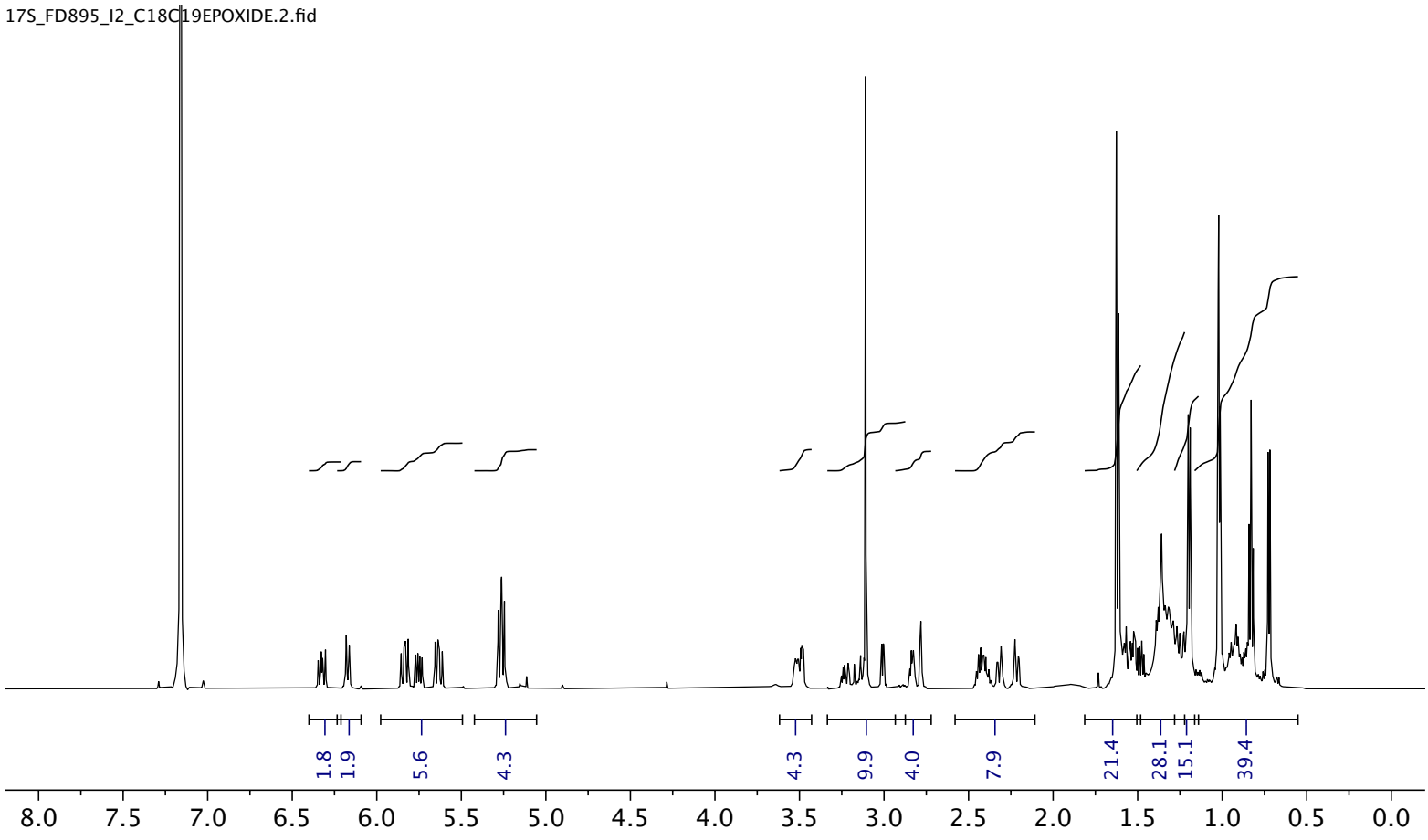
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 7*S*,17*S*–FD–895 (**1h**) in C_6D_6

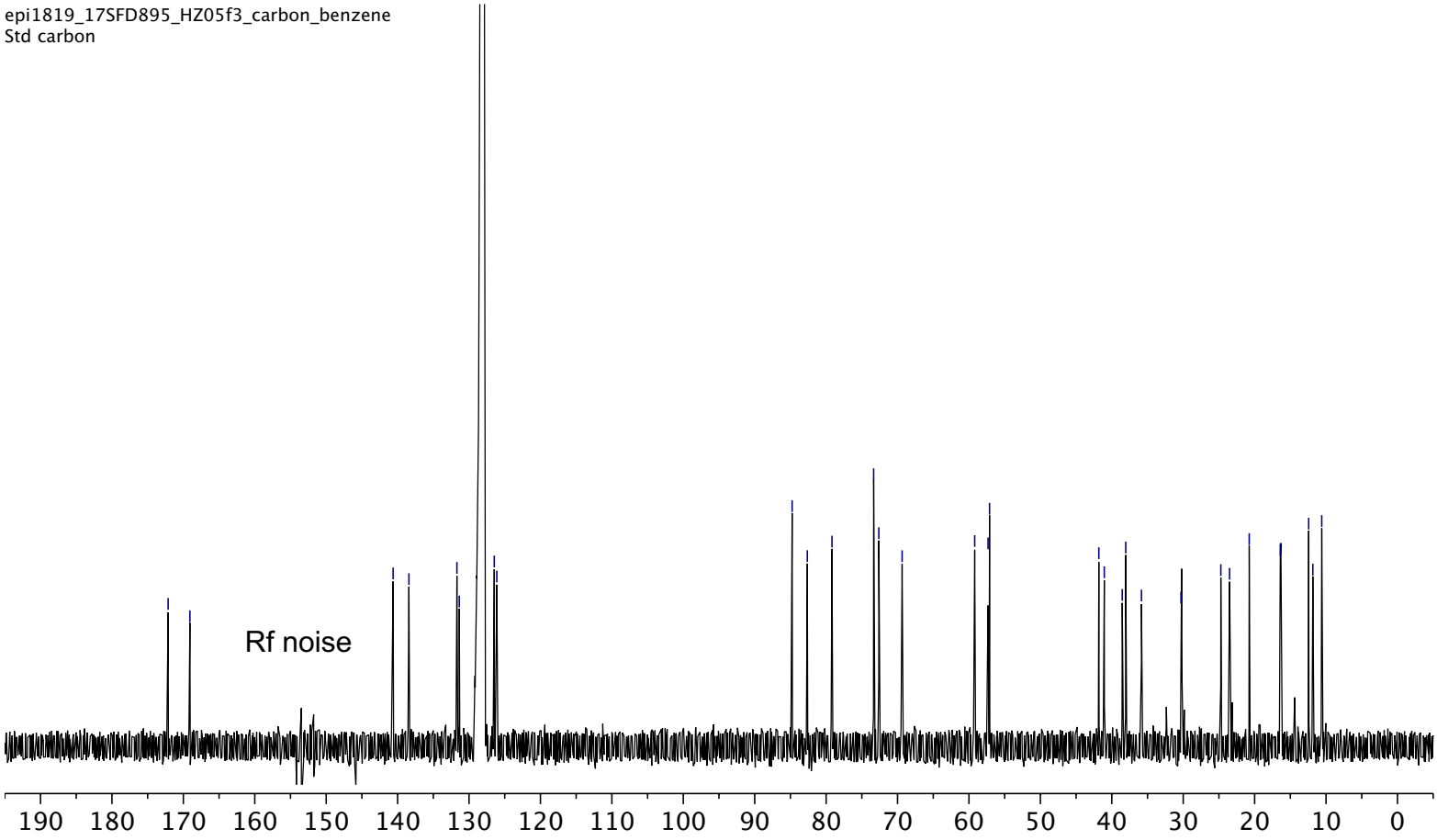


$^{1}H,^{13}C$–HMBC (600 MHz) spectrum of 7*S*,17*S*–FD–895 (**1h**) in C_6D_6

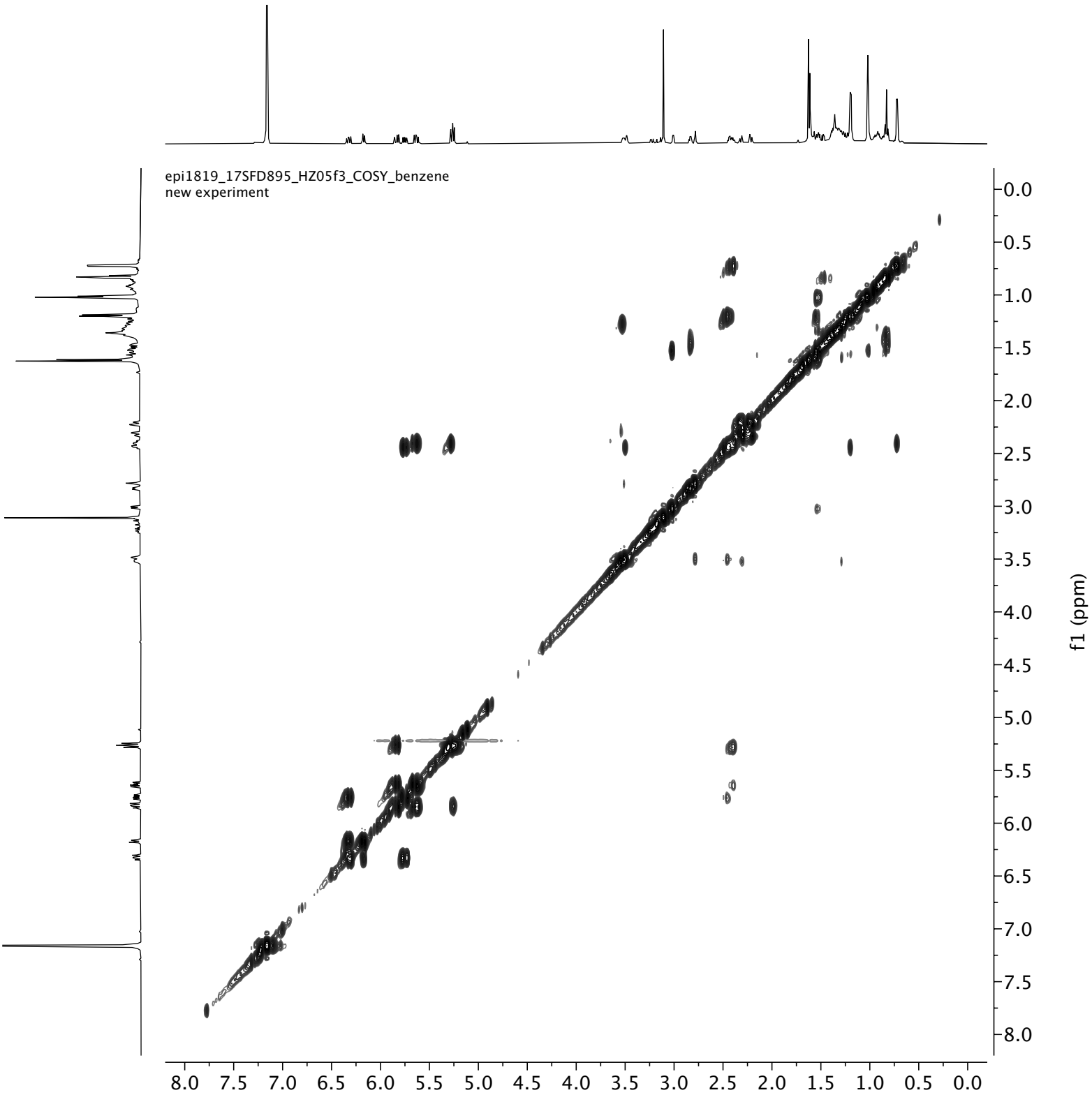


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 17*S*,18*S*,19*S*-FD-895 (**1i**) in C_6D_6

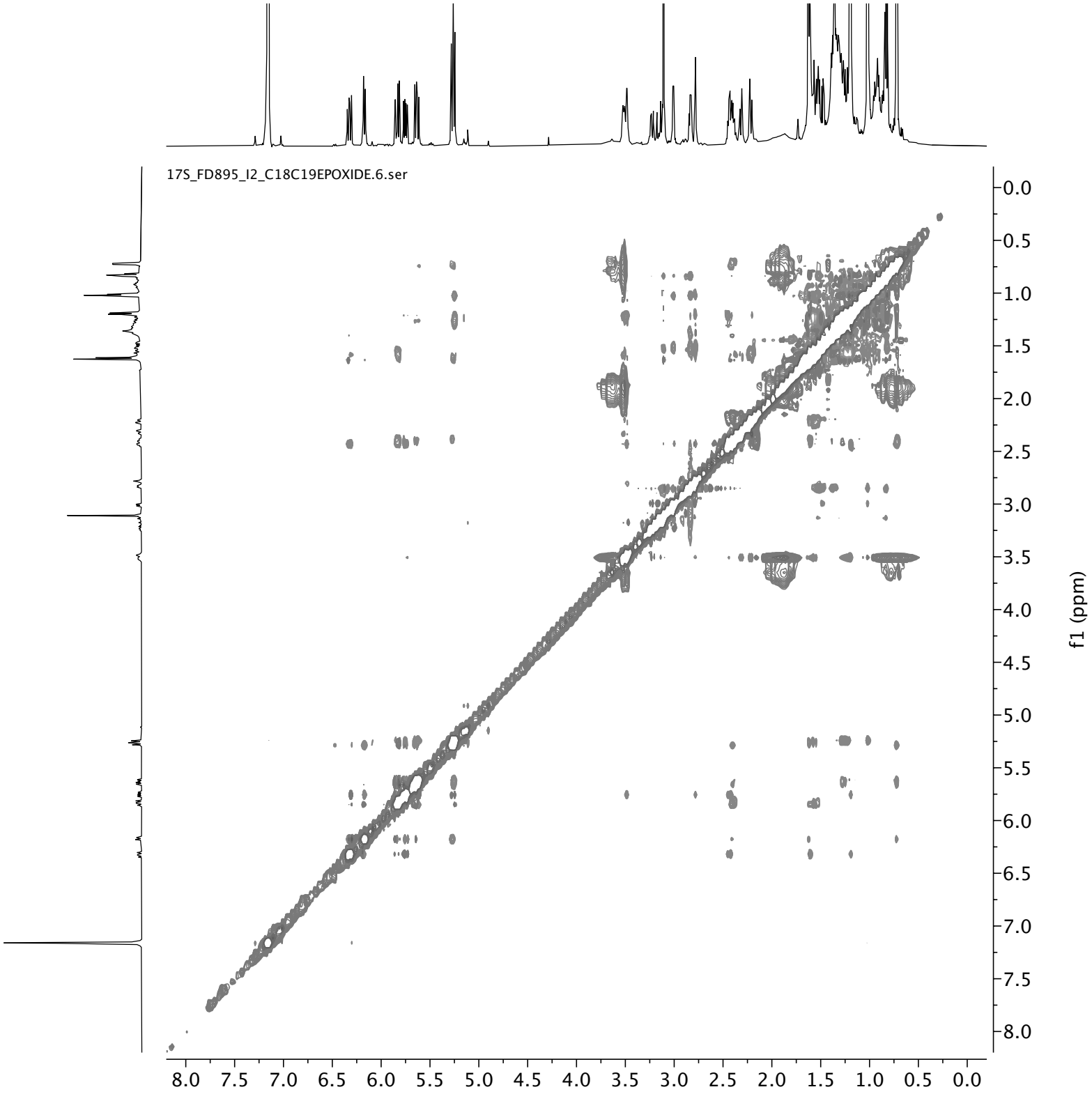




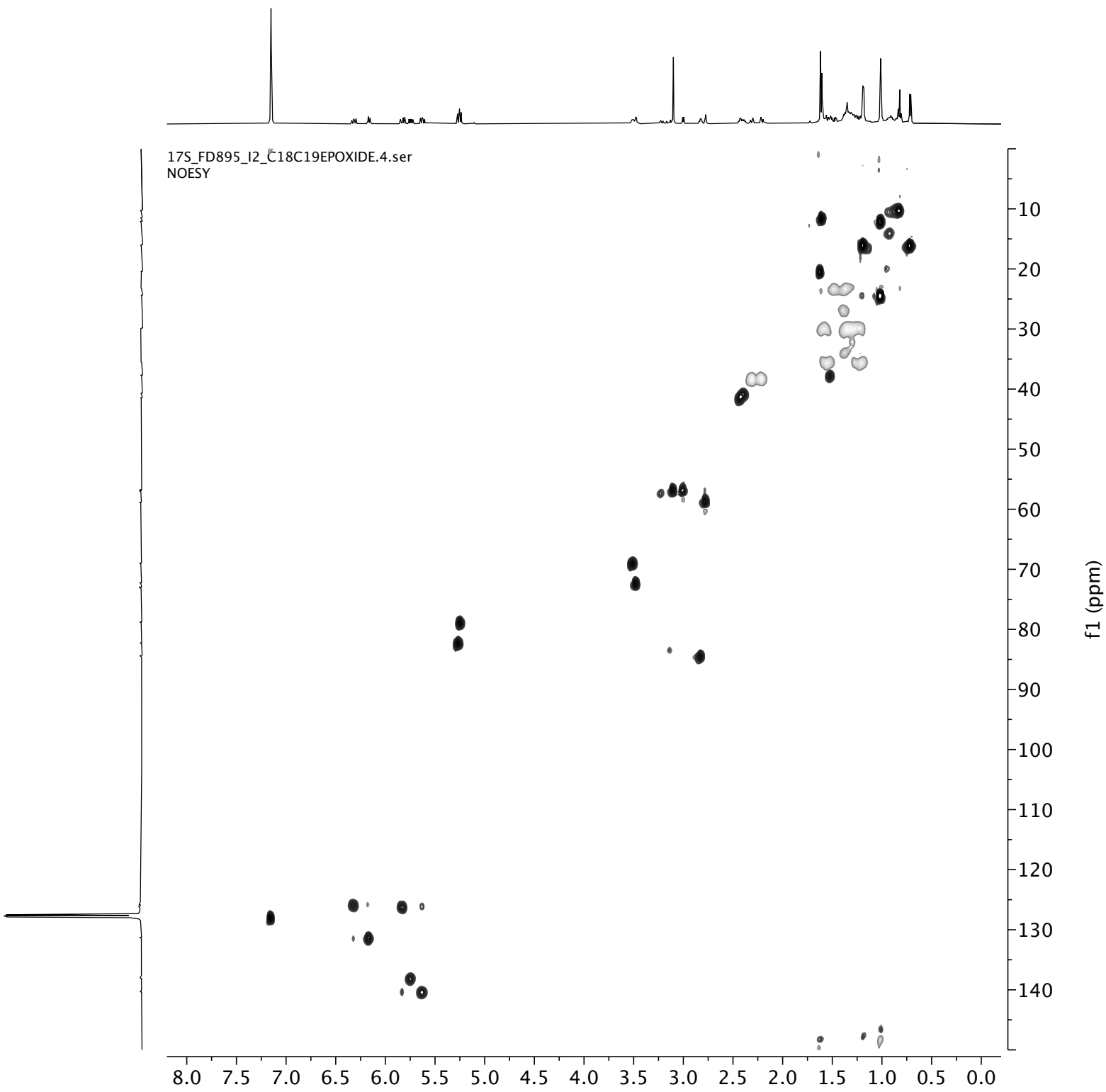
^{1}H,^{1}H–COSY (500 MHz) spectrum of 17*S*,18*S*,19*S*–FD–895 (**1i**) in C_6D_6



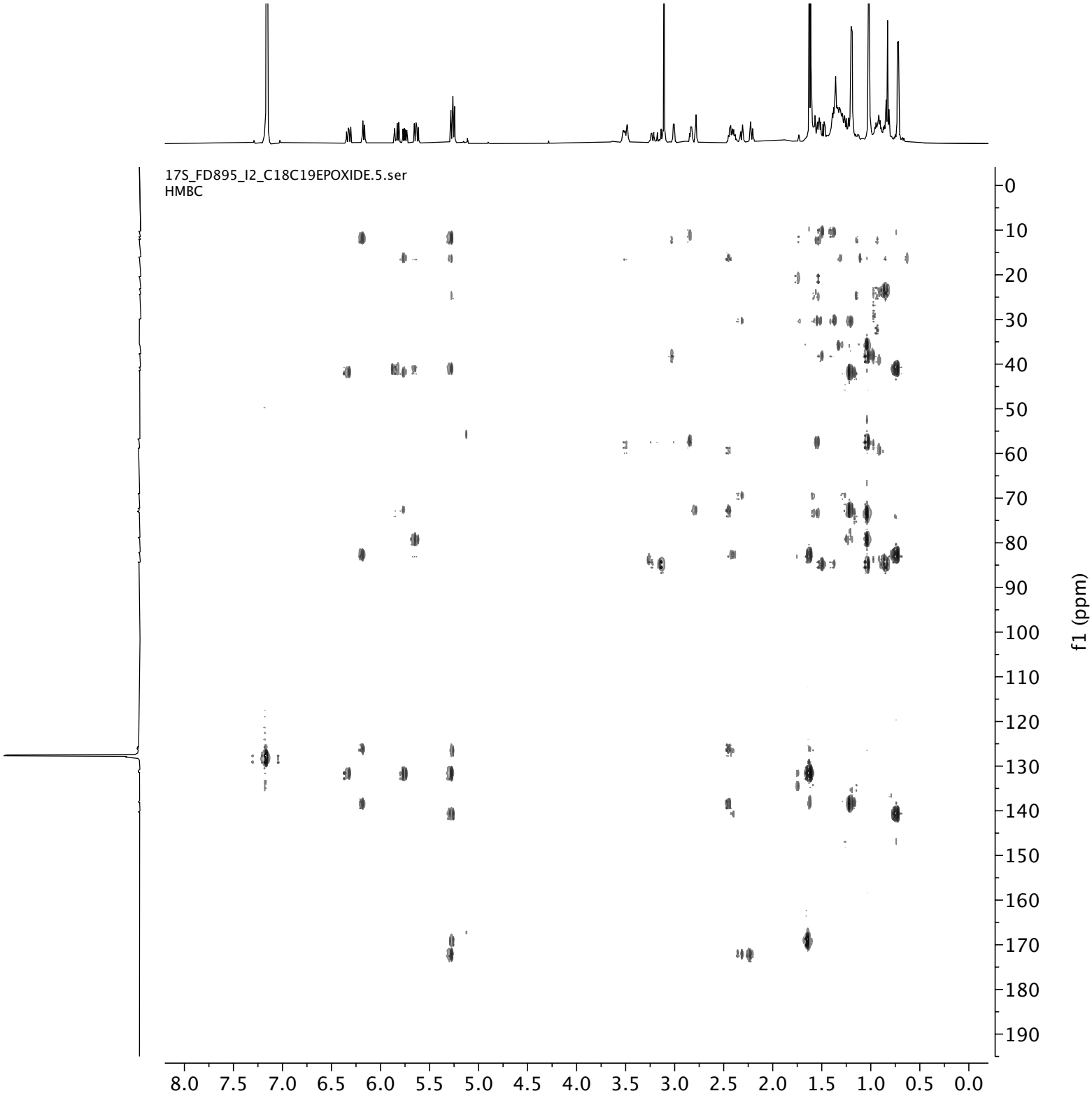
$^{1}H,^{1}H$–NOESY (600 MHz) spectrum of 17*S*,18*S*,19*S*–FD–895 (**1i**) in C_6D_6



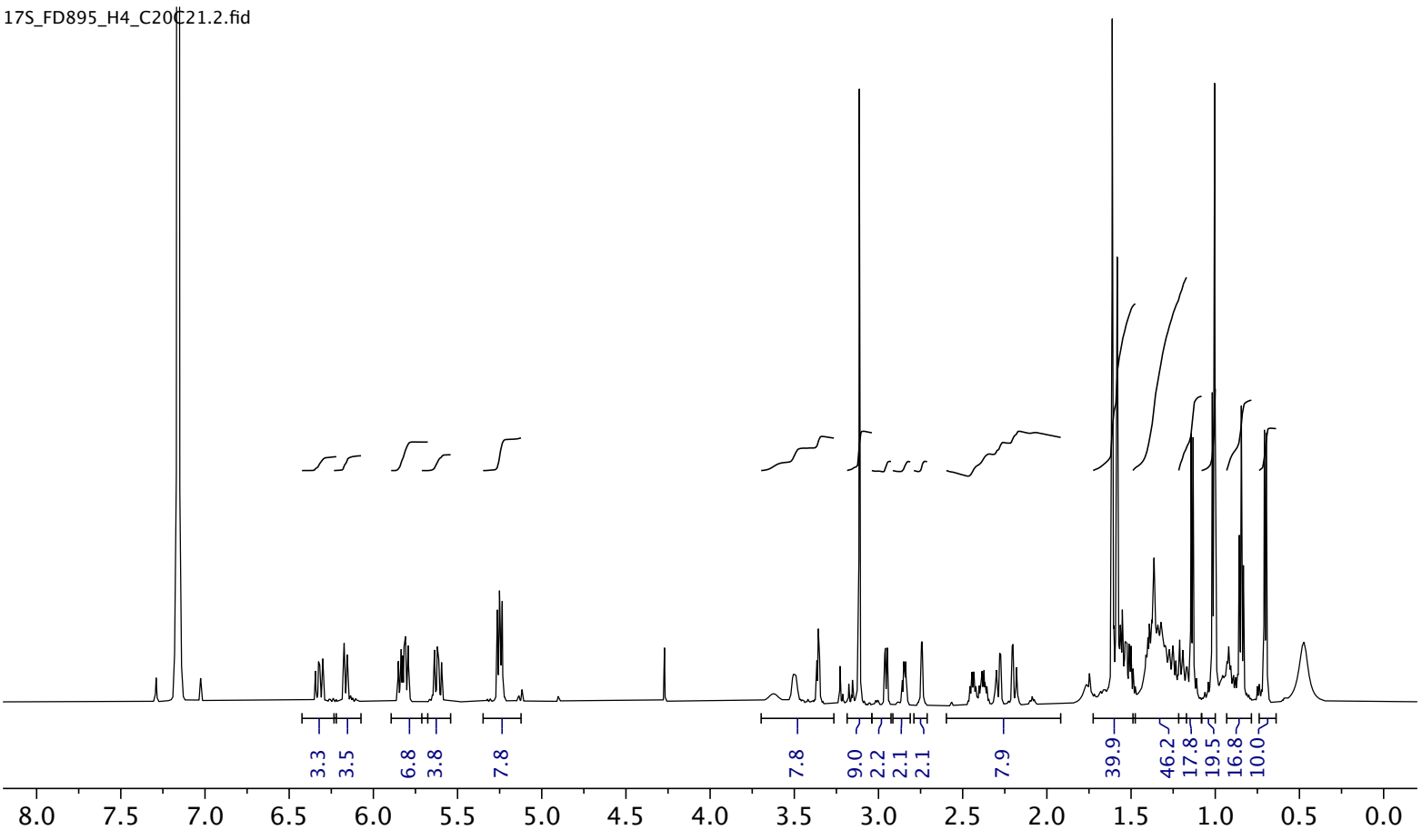
$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 17*S*,18*S*,19*S*–FD–895 (**1i**) in C_6D_6

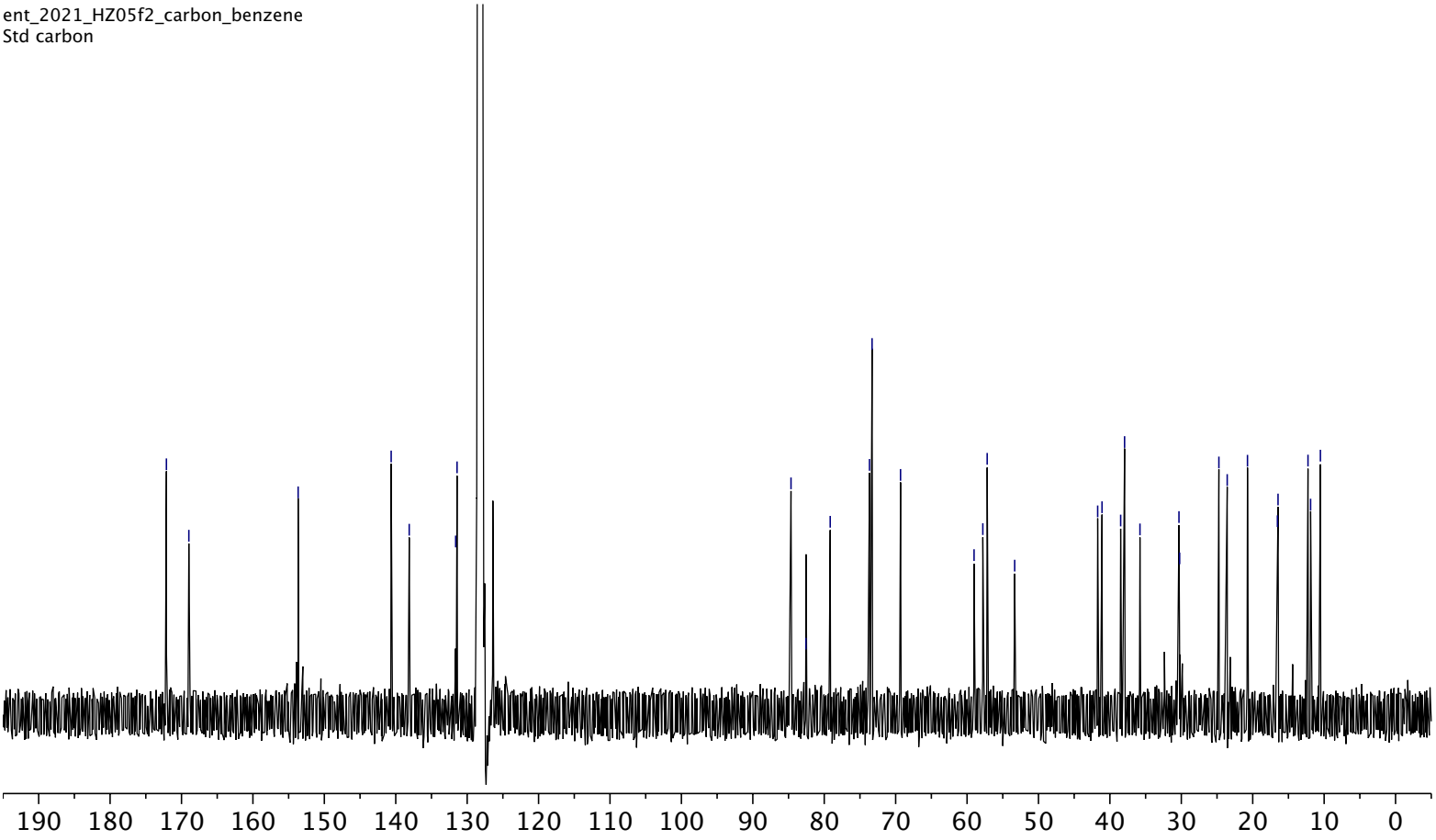


$^{1}H,^{13}C$–HMBC (600 MHz) spectrum of 3*S*,17*S*–FD–895 (**1i**) in C_6D_6

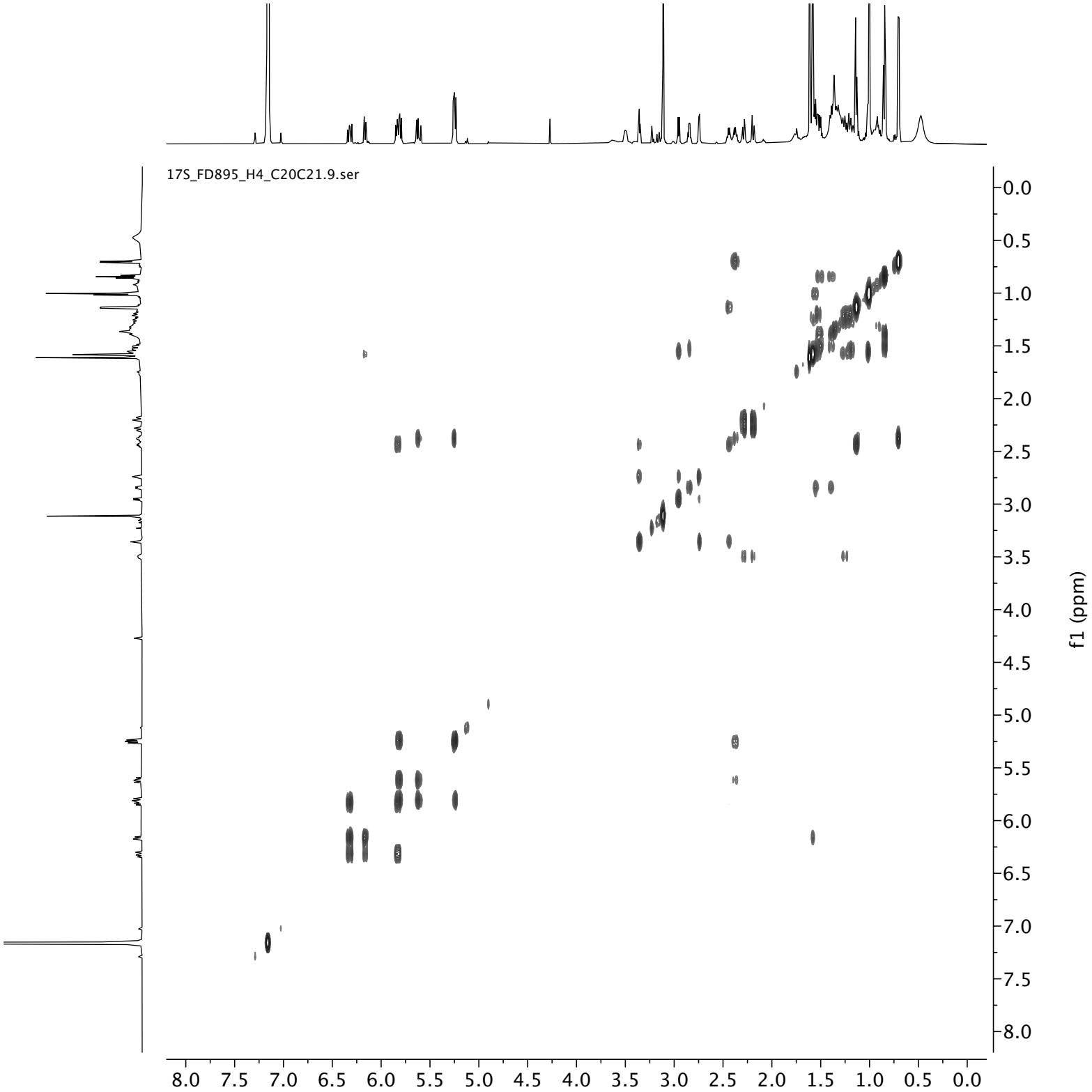


^{1}H-NMR (600 MHz) and ^{13}C-NMR (125 MHz) spectra of 17*S*,20*S*,21*S*-FD-895 (**1j**) in C_6D_6

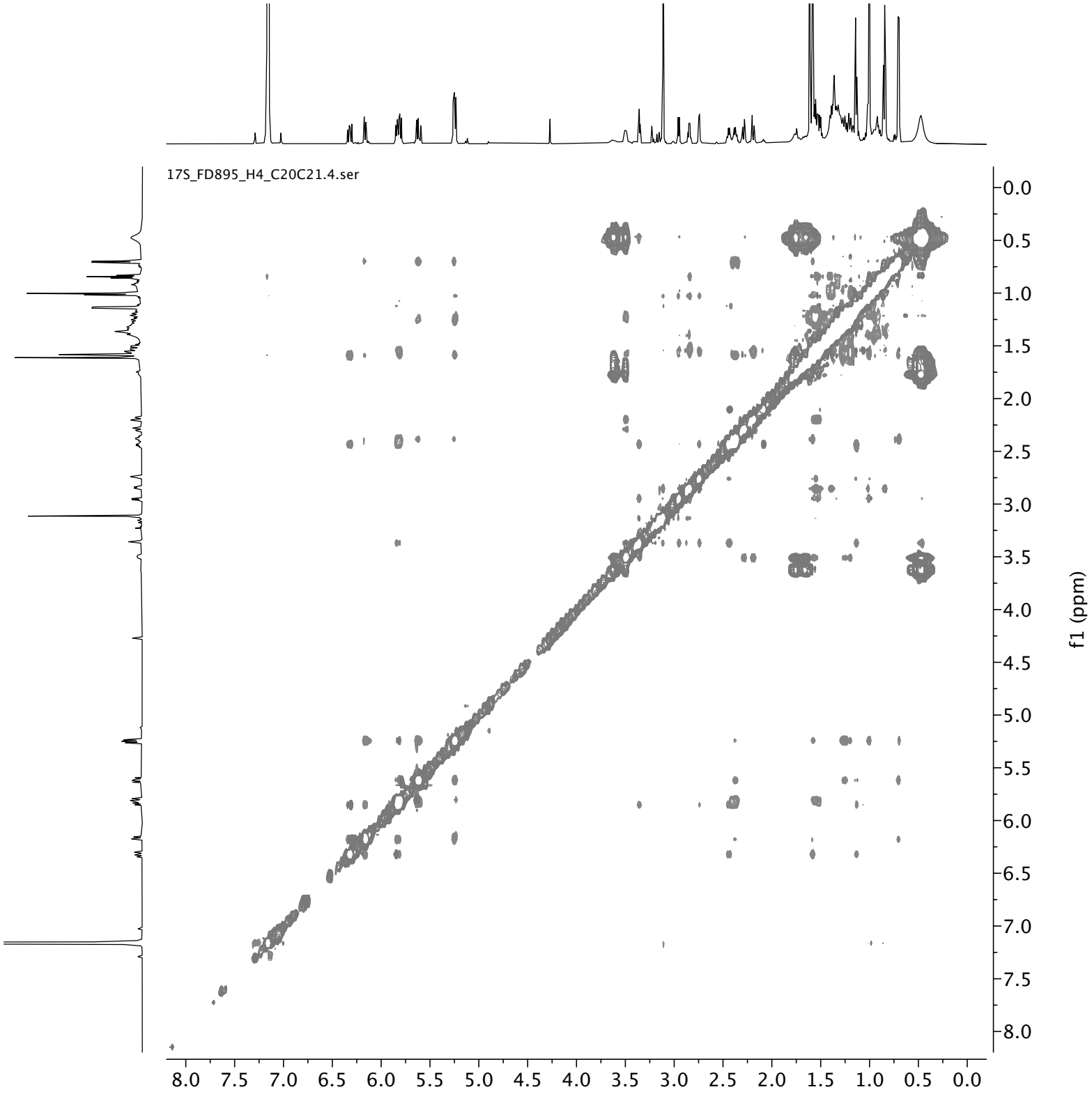




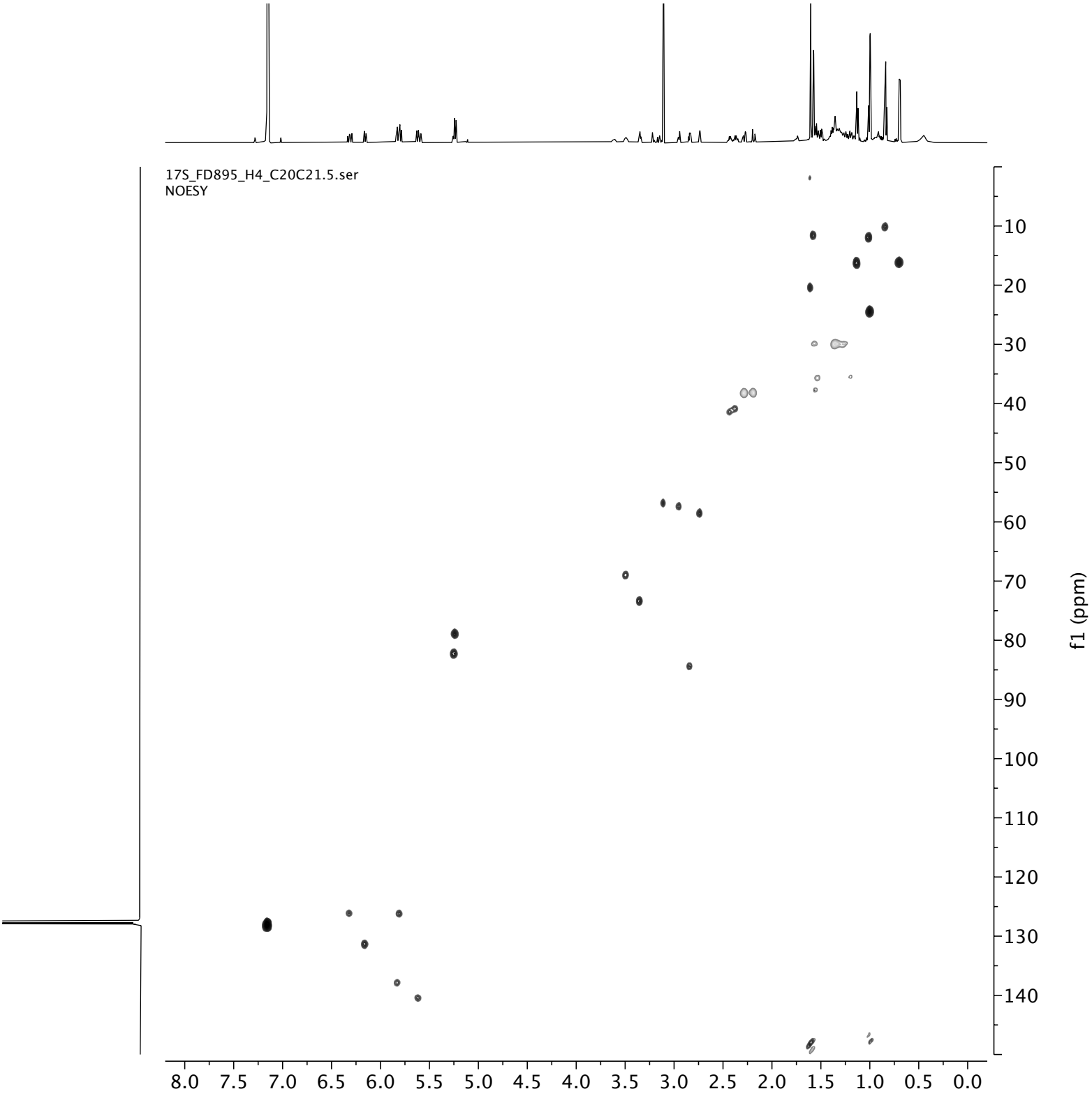
^{1}H,^{1}H–COSY (600 MHz) spectrum of 17*S*,20*S*,21*S*–FD–895 (**1j**) in C_6D_6



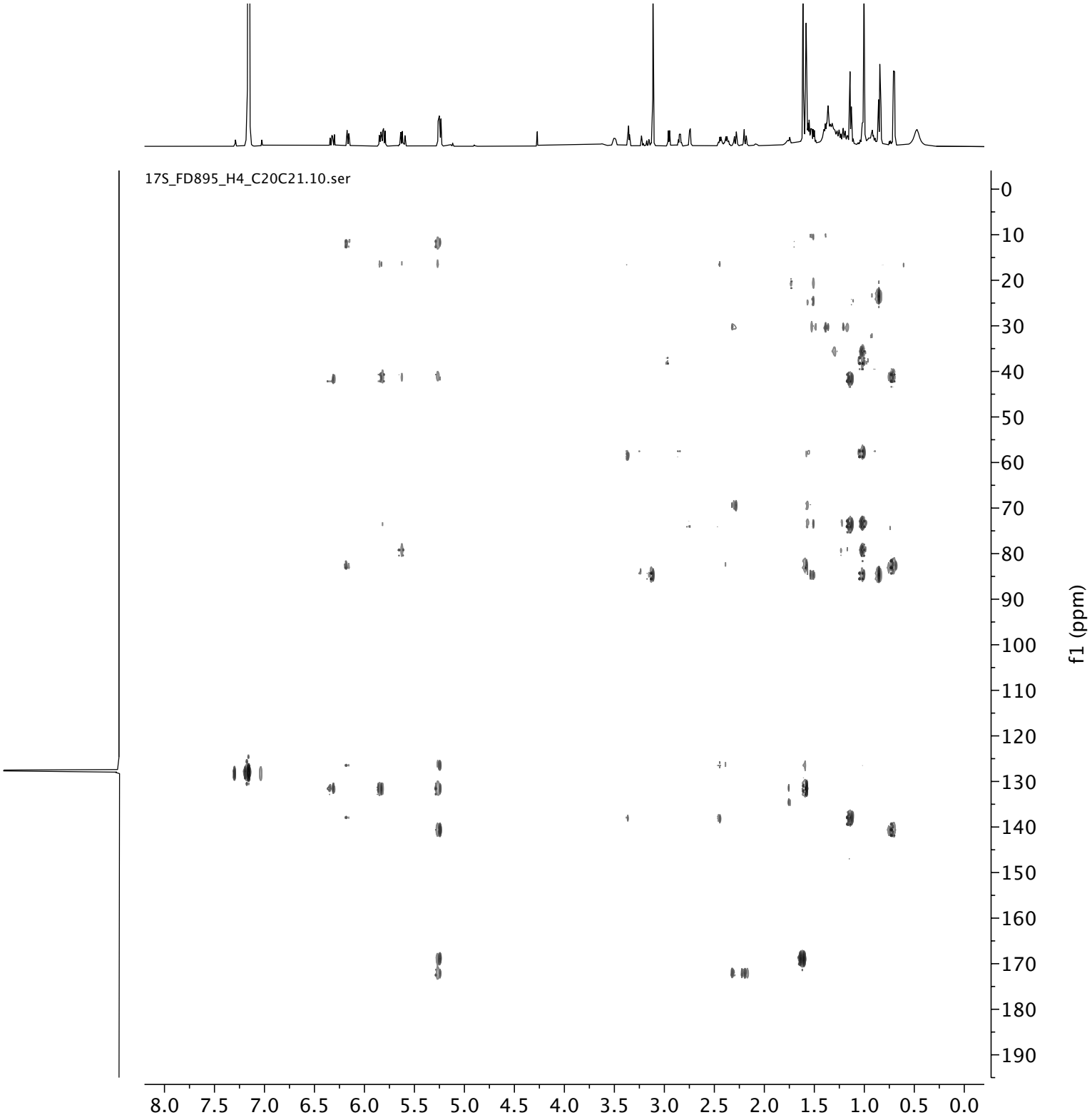
$^{1}H,^{1}H$–NOESY (600 MHz) spectrum of 17*S*,20*S*,21*S*–FD–895 (**1j**) in C_6D_6



$^{1}H,^{13}C$–HSQC (600 MHz) spectrum of 17*S*,20*S*,21*S*–FD–895 (**1j**) in C_6D_6



$^{1}H,^{13}C$–HMBC (600 MHz) spectrum of 17*S*,20*S*,21*S*–FD–895 (**1j**) in C_6D_6



Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\J5.D
Sample Name: J5

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==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :  11
Acq. Instrument : Instrument 1                    Location : Vial 11
Injection Date  : 1/4/2023 4:47:48 PM                  Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
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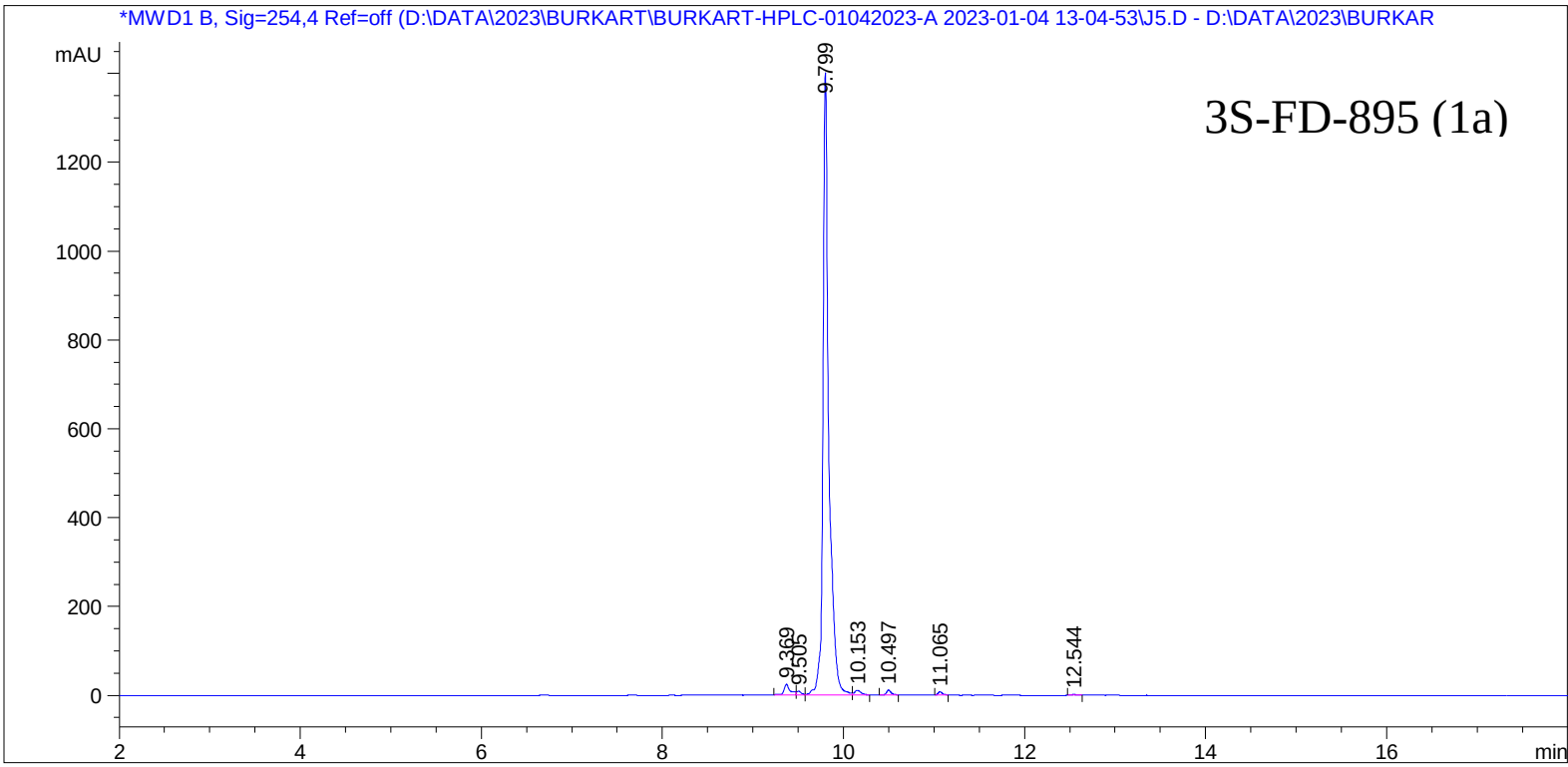


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==========================================================================
                        Area Percent Report
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Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.369 BV    0.0704  121.24068   24.21441   1.8450
   2   9.505 VV    0.0530   33.13165    8.97960   0.5042
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Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\J5.D
Sample Name: J5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.799	VB	0.0643	6278.65576	1401.18237	95.5469
4	10.153	BB	0.0741	57.52671	11.16870	0.8754
5	10.497	BB	0.0594	47.07749	11.58256	0.7164
6	11.065	BB	0.0541	27.89825	7.73891	0.4245
7	12.544	BB	0.0545	5.74987	1.65786	0.0875
Totals :				6571.28040	1466.52441	

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\A5-B.D
Sample Name: A5: 4.0 ug loaded

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :  13
Acq. Instrument : Instrument 1                    Location : Vial 2
Injection Date  : 1/4/2023 5:32:29 PM                  Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/4/2023 1:51:37 PM by Y. Su
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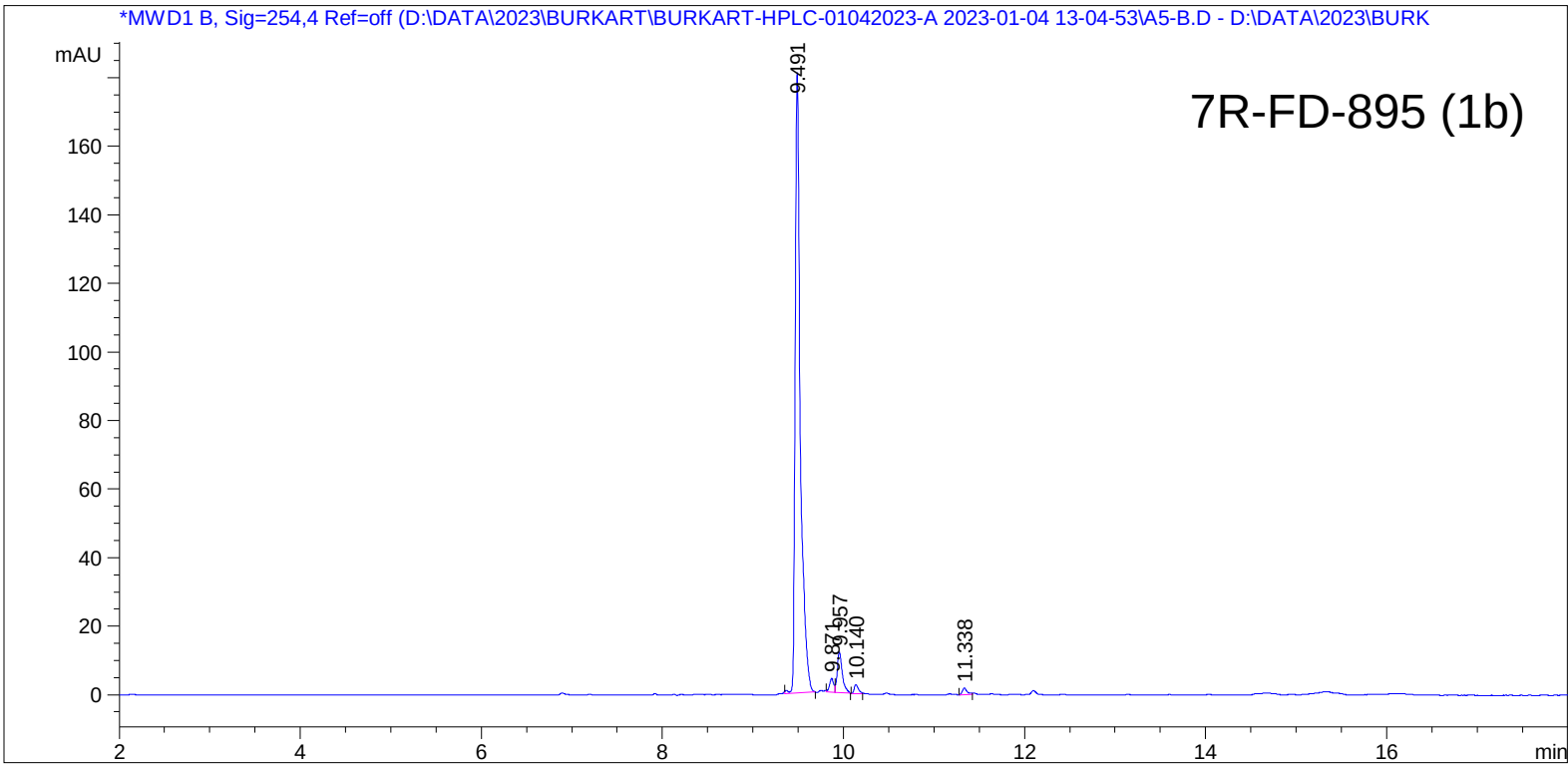


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                        Area Percent Report
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Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!
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Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.491	BB	0.0580	713.53564	181.14104	90.6033
2	9.871	BV	0.0470	12.10154	3.91669	1.5366

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\A5-B.D
Sample Name: A5: 4.0 ug loaded

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.957	VB	0.0572	45.88954	11.85467	5.8270
4	10.140	BB	0.0497	8.67712	2.61813	1.1018
5	11.338	BB	0.0553	7.33431	1.97690	0.9313
Totals :				787.53816	201.50742	

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*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\B5-B.D
Sample Name: B5: 4.0 ug loaded

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==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :  14
Acq. Instrument : Instrument 1                    Location : Vial 3
Injection Date  : 1/4/2023 5:54:49 PM                  Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/4/2023 1:51:37 PM by Y. Su
                  (modified after loading)
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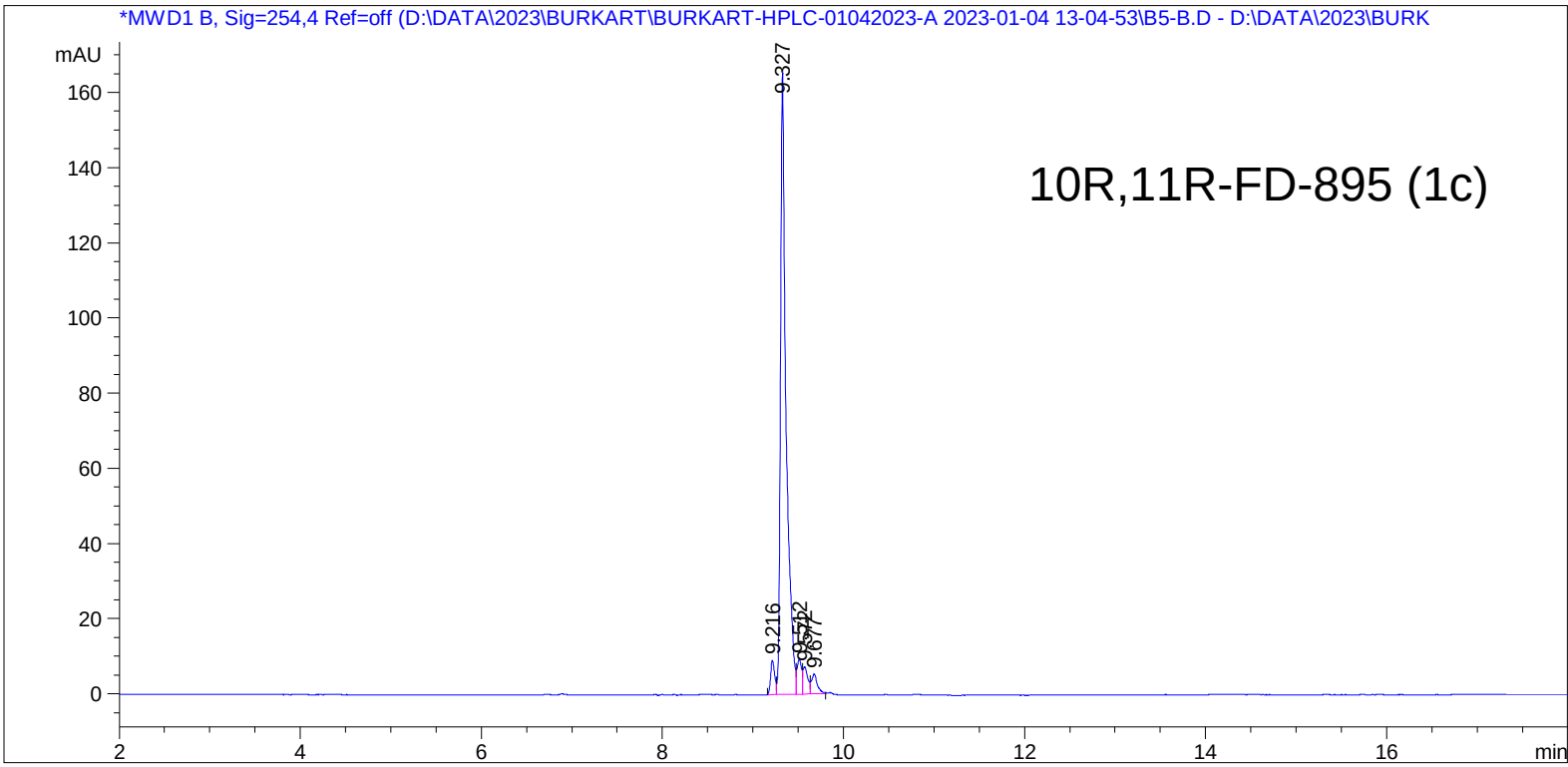


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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.216 BV    0.0488   28.92623    9.16686   3.4638
   2   9.327 VV    0.0629  721.26758  165.39879  86.3688
```

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\B5-B.D
Sample Name: B5: 4.0 ug loaded

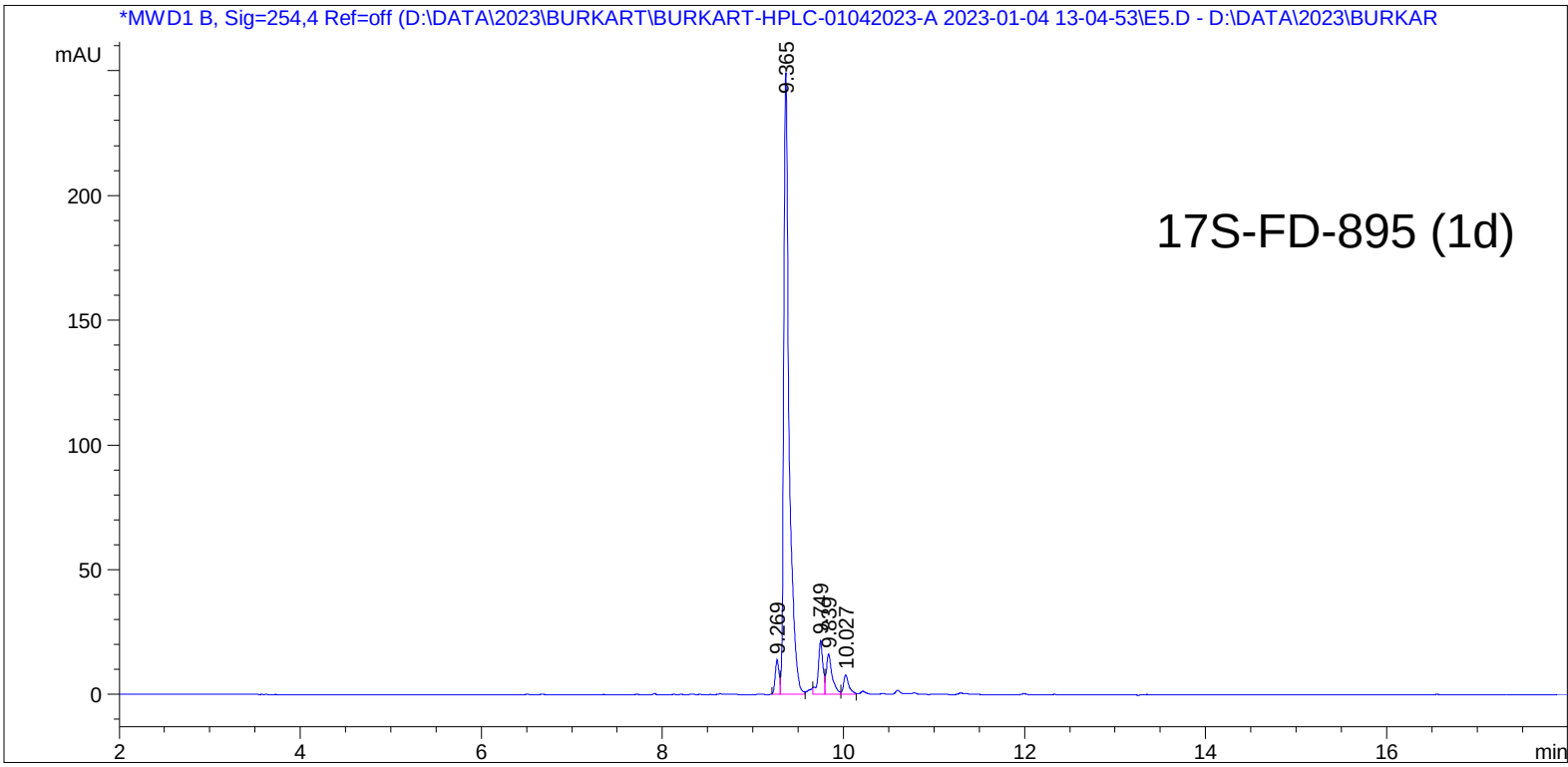
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.512	VV	0.0502	32.86232	9.53437	3.9351
4	9.572	VV	0.0548	27.23235	7.25556	3.2610
5	9.677	VB	0.0658	24.81337	5.28304	2.9713
Totals :				835.10185	196.63863	

==========

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\E5.D
Sample Name: E5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :   6
Acq. Instrument : Instrument 1                    Location : Vial 6
Injection Date  : 1/4/2023 2:55:35 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
Additional Info : Peak(s) manually integrated
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!
```

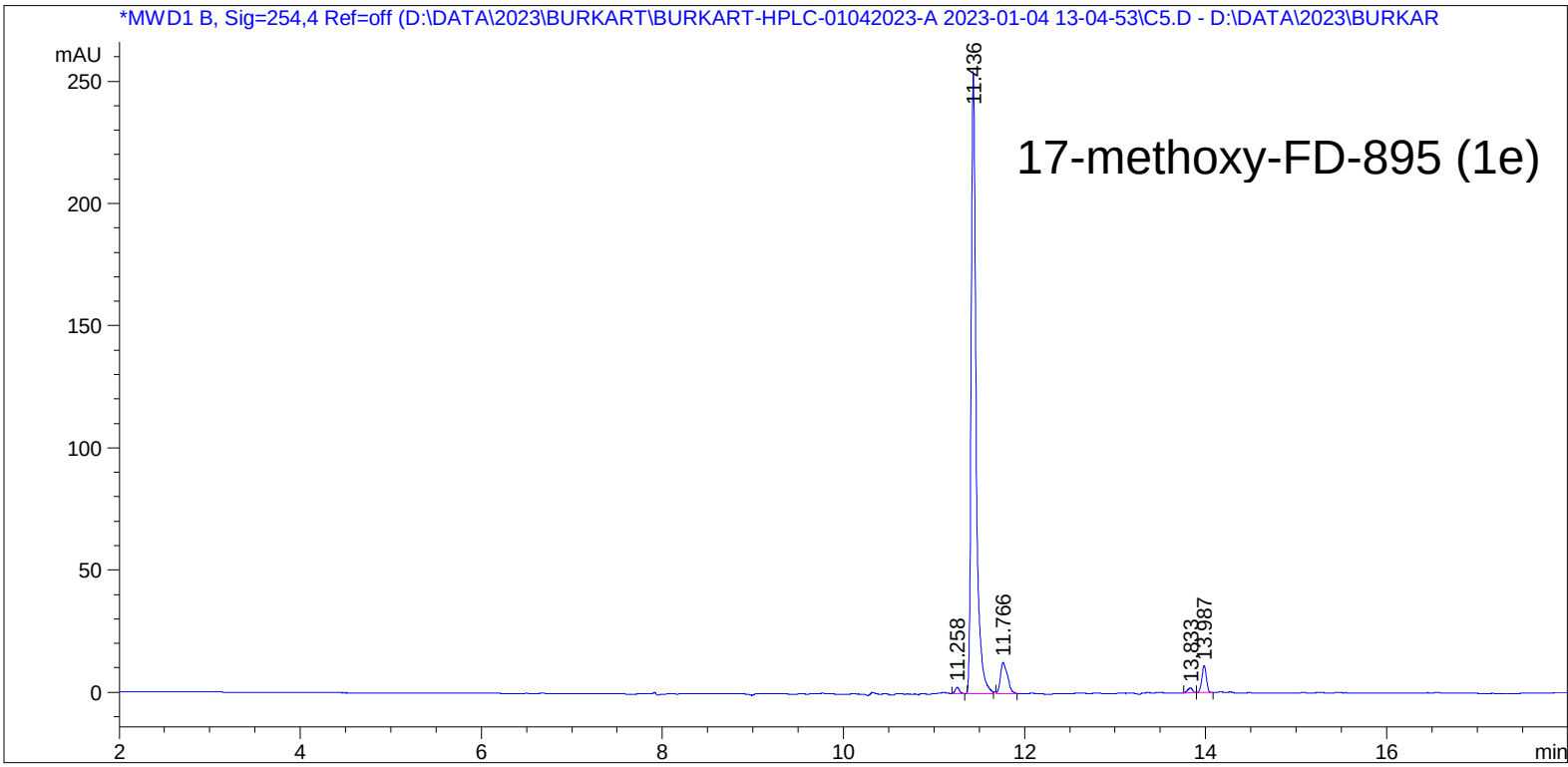
Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\E5.D
Sample Name: E5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.269	BV	0.0456	41.34902	13.96243	3.3074
2	9.365	VB	0.0600	1025.93884	249.21840	82.0618
3	9.749	BV	0.0542	79.59547	21.48303	6.3666
4	9.839	VB	0.0637	72.47417	16.04055	5.7970
5	10.027	BB	0.0585	30.84453	7.73407	2.4672
Totals :				1250.20203	308.43848	

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\C5.D
Sample Name: C5: 4.0 ug loaded

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :   4
Acq. Instrument : Instrument 1                    Location : Vial 4
Injection Date  : 1/4/2023 2:11:00 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1  11.258 BB    0.0491    8.02855    2.52526   0.7448
   2  11.436 BB    0.0568  954.69629  254.49214  88.5691
```

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\C5.D
Sample Name: C5: 4.0 ug loaded

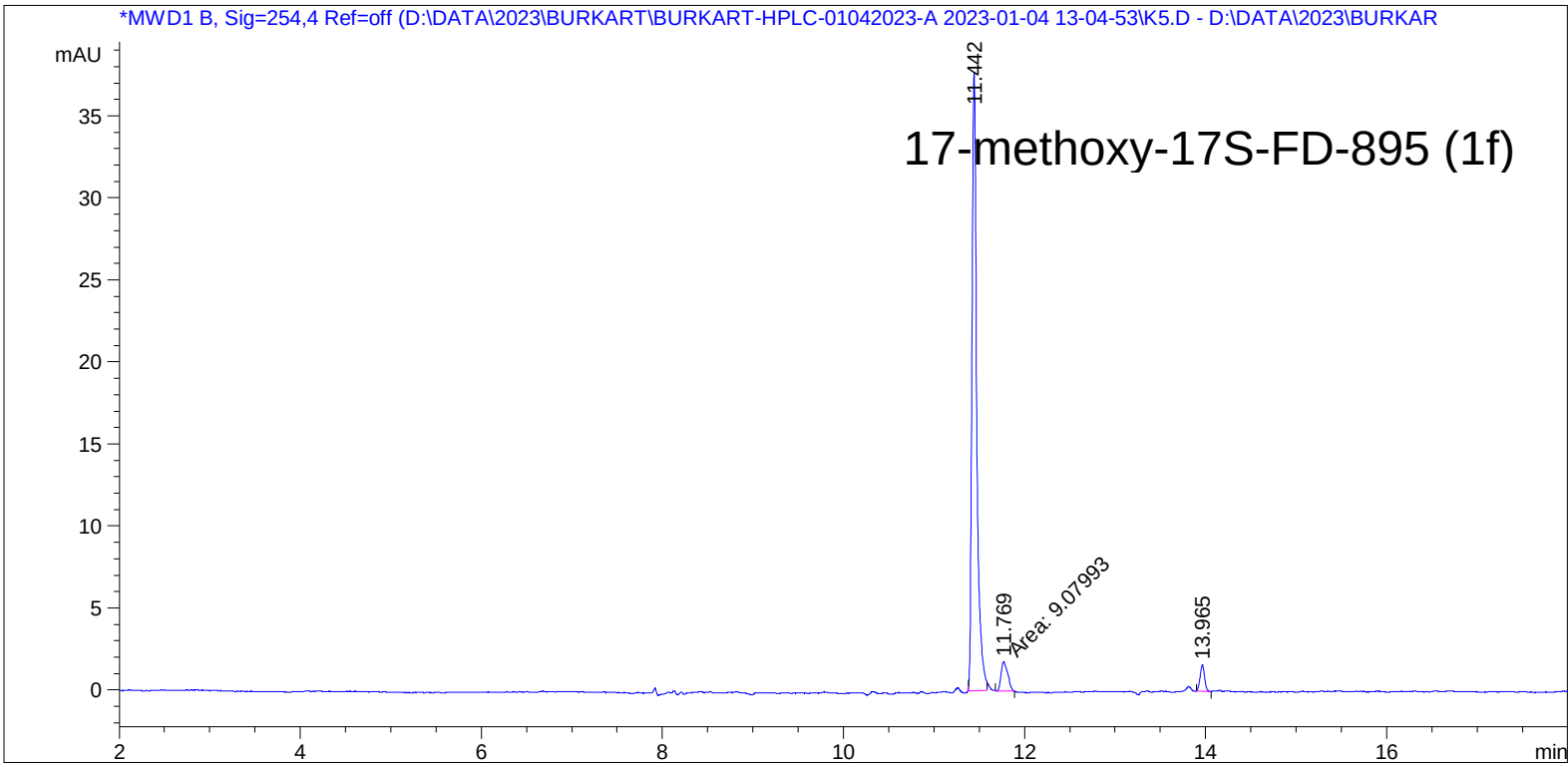
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	11.766	BB	0.0779	69.58083	12.89894	6.4552
4	13.833	BV	0.0566	7.35602	2.01246	0.6824
5	13.987	VB	0.0542	38.24908	11.09269	3.5484
Totals :				1077.91076	283.02150	

==========

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\K5.D
Sample Name: K5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :  12
Acq. Instrument : Instrument 1                    Location : Vial 12
Injection Date  : 1/4/2023 5:10:08 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
Additional Info : Peak(s) manually integrated
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!
```

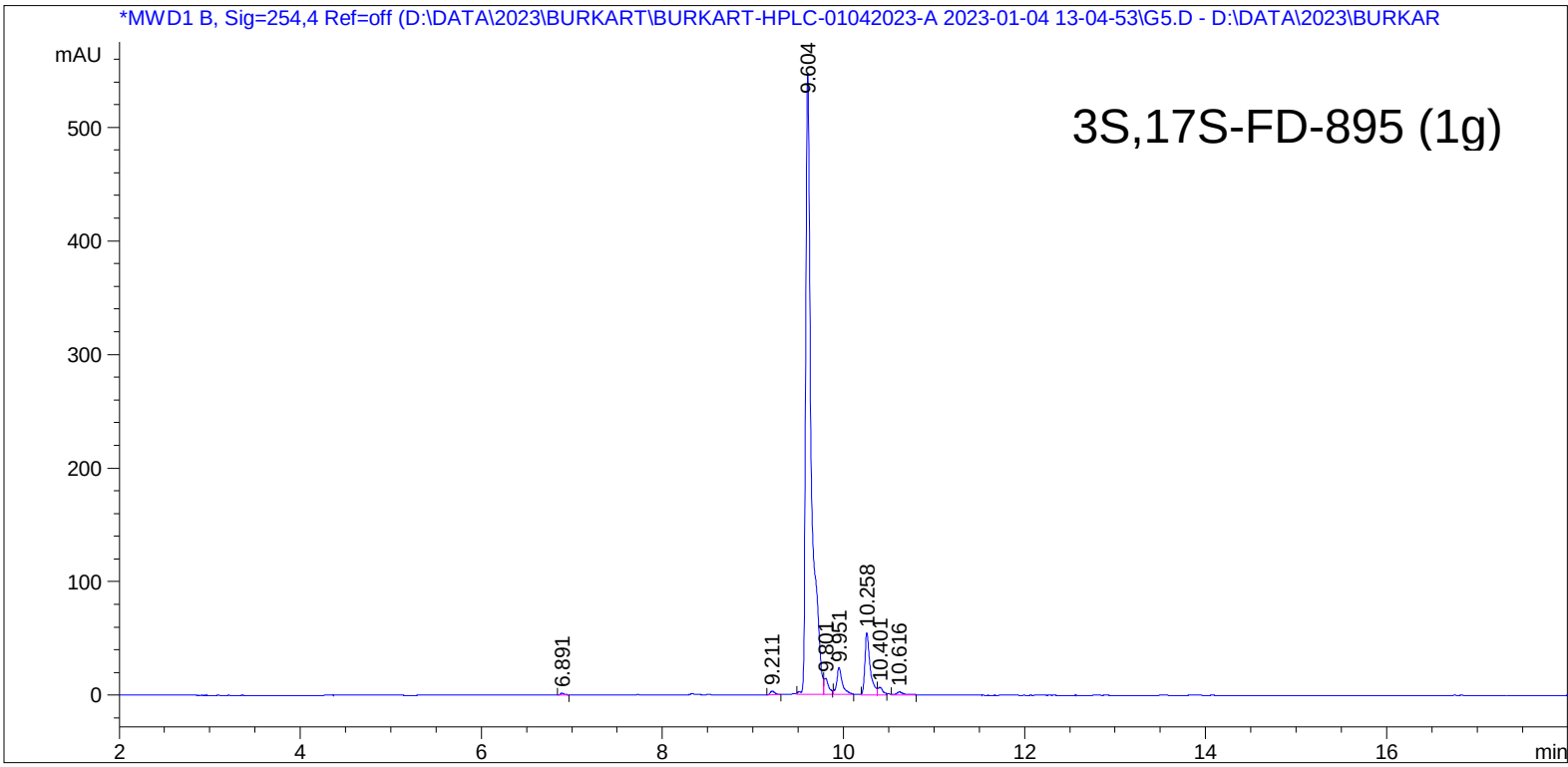
Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\K5.D
Sample Name: K5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.442	BB	0.0548	138.16333	37.68406	90.4594
2	11.769	MM	0.0844	9.07993	1.79201	5.9449
3	13.965	BB	0.0539	5.49186	1.60504	3.5957
Totals :				152.73512	41.08111	

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\G5.D
Sample Name: G5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :   8
Acq. Instrument : Instrument 1                    Location : Vial 8
Injection Date  : 1/4/2023 3:40:25 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
```




```
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   6.891 BB    0.0496    5.67575    1.67366   0.2030
   2   9.211 BB    0.0547   12.46731    3.40371   0.4460
```

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\G5.D
Sample Name: G5

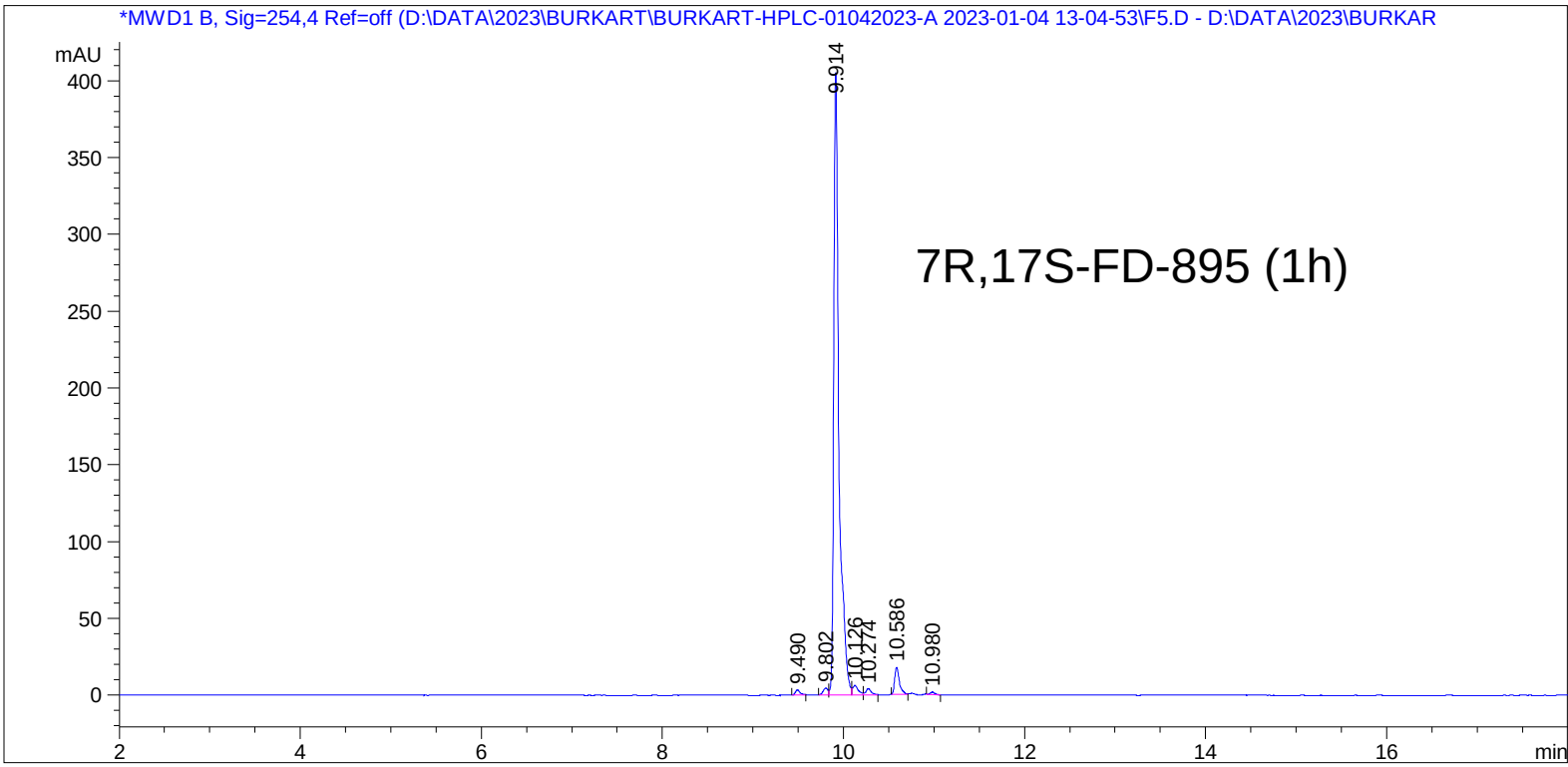
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.604	BV	0.0622	2360.77832	548.17621	84.4495
4	9.801	VB	0.0510	49.38311	14.06137	1.7665
5	9.951	BB	0.0628	103.31221	23.73966	3.6957
6	10.258	BV	0.0593	220.40396	54.38601	7.8843
7	10.401	VB	0.0600	26.77395	6.51367	0.9578
8	10.616	BB	0.0833	16.69579	2.77030	0.5972
Totals :				2795.49041	654.72459	

==========

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\F5.D
Sample Name: F5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :   7
Acq. Instrument : Instrument 1                    Location : Vial 7
Injection Date  : 1/4/2023 3:18:01 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
```




```
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.490 BB    0.0544   12.50176    3.36434   0.7130
   2   9.802 BV    0.0562   16.24353    4.38981   0.9264
```

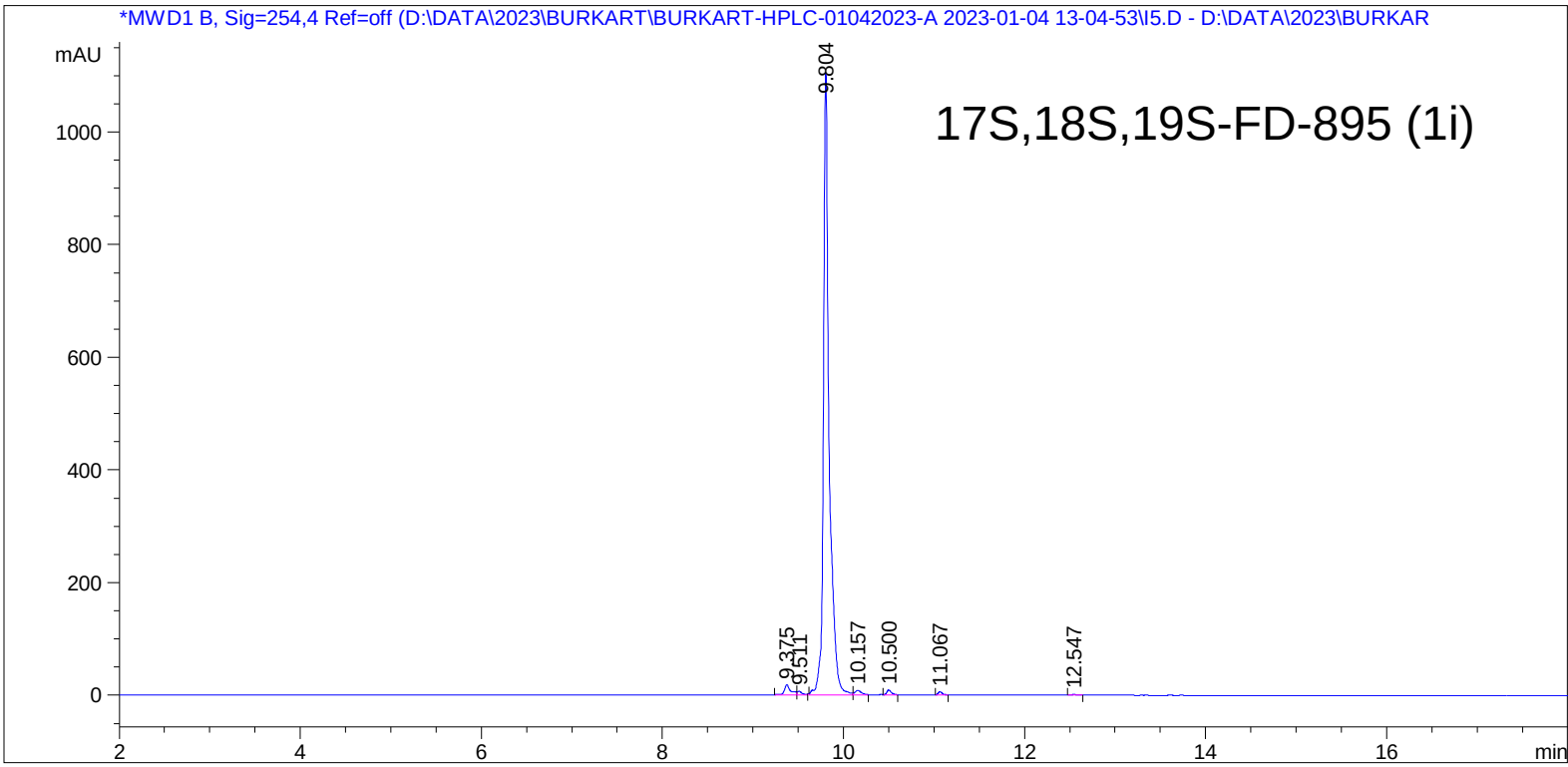
Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\F5.D
Sample Name: F5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.914	VV	0.0573	1611.82349	406.07657	91.9243
4	10.126	VV	0.0614	26.76514	6.19754	1.5264
5	10.274	VB	0.0596	16.39960	4.01876	0.9353
6	10.586	BB	0.0528	63.69561	17.76866	3.6326
7	10.980	BB	0.0548	5.99510	1.67153	0.3419
Totals :				1753.42422	443.48721	

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\I5.D
Sample Name: I5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :  10
Acq. Instrument : Instrument 1                    Location : Vial 10
Injection Date  : 1/4/2023 4:25:18 PM                  Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
```




```
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.375 BV    0.0705   92.83563   18.52970   1.8350
   2   9.511 VB    0.0574   27.56378    6.79121   0.5448
```

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\I5.D
Sample Name: I5

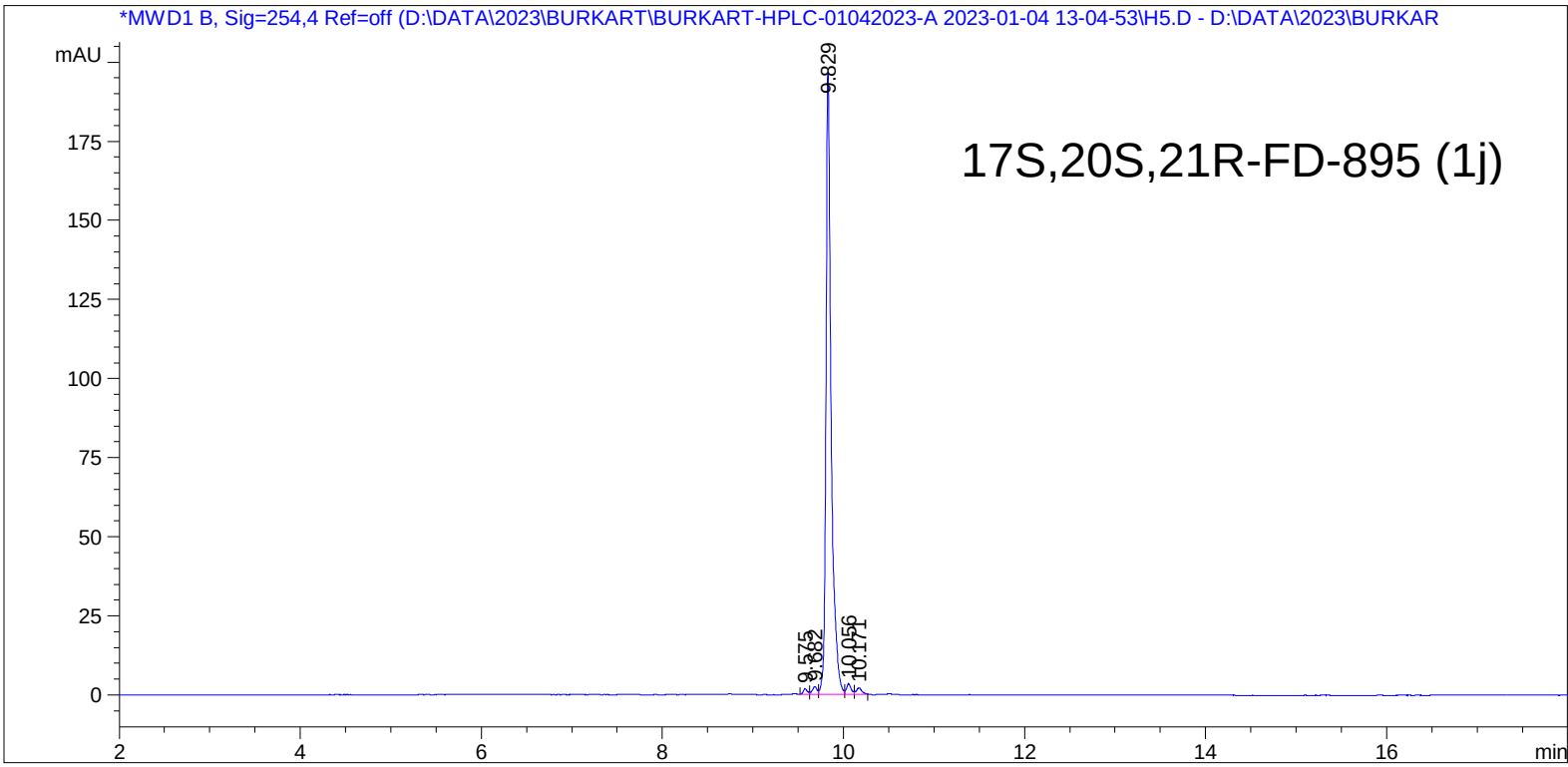
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.804	BB	0.0621	4840.58594	1105.59180	95.6789
4	10.157	BB	0.0709	42.31945	8.52066	0.8365
5	10.500	BB	0.0547	32.17272	8.79540	0.6359
6	11.067	BB	0.0506	19.46455	5.72739	0.3847
7	12.547	BB	0.0548	4.25495	1.24645	0.0841
Totals :				5059.19702	1155.20261	

==========

*** End of Report ***

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\H5.D
Sample Name: H5

```
==========================================================================
Acq. Operator   : Y. Su                          Seq. Line :   9
Acq. Instrument : Instrument 1                    Location : Vial 9
Injection Date  : 1/4/2023 4:02:51 PM                 Inj :   1
                                                 Inj Volume : 20.0 µl
Different Inj Volume from Sequence !     Actual Inj Volume : 40.0 µl
Acq. Method     : D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\HPLC-UV-MS-
                  2021-A.M
Last changed    : 1/4/2023 12:59:41 PM by Y. Su
Analysis Method : C:\CHEM32\1\METHODS\HPLC-DATA-ANALYSIS-2022-A.M
Last changed    : 1/5/2023 10:05:03 AM by Y. Su
                  (modified after loading)
```




```
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: MWD1 B, Sig=254,4 Ref=off
 Signal has been modified after loading from rawdata file!

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [mAU*s]     [mAU]       %
----|-------|----|-------|----------|----------|--------|
   1   9.575 BV    0.0478    5.48202    1.73994   0.6680
   2   9.682 VV    0.0526    8.73602    2.45275   1.0645
```

Data File D:\DATA\2023\BURKART\BURKART-HPLC-01042023-A 2023-01-04 13-04-53\H5.D
Sample Name: H5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
3	9.829	VV	0.0586	784.32239	196.46071	95.5690
4	10.056	VV	0.0557	12.70005	3.38903	1.5475
5	10.171	VB	0.0646	9.44691	2.13526	1.1511
Totals :				820.68738	206.17768	

*** End of Report ***