Chemical Constituents Isolated from the Root Bark of *Cudrania tricuspidata* and Their Potential Neuroprotective Effects

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S51. HRESIMS spectrum of cudraphenone E (**17**).

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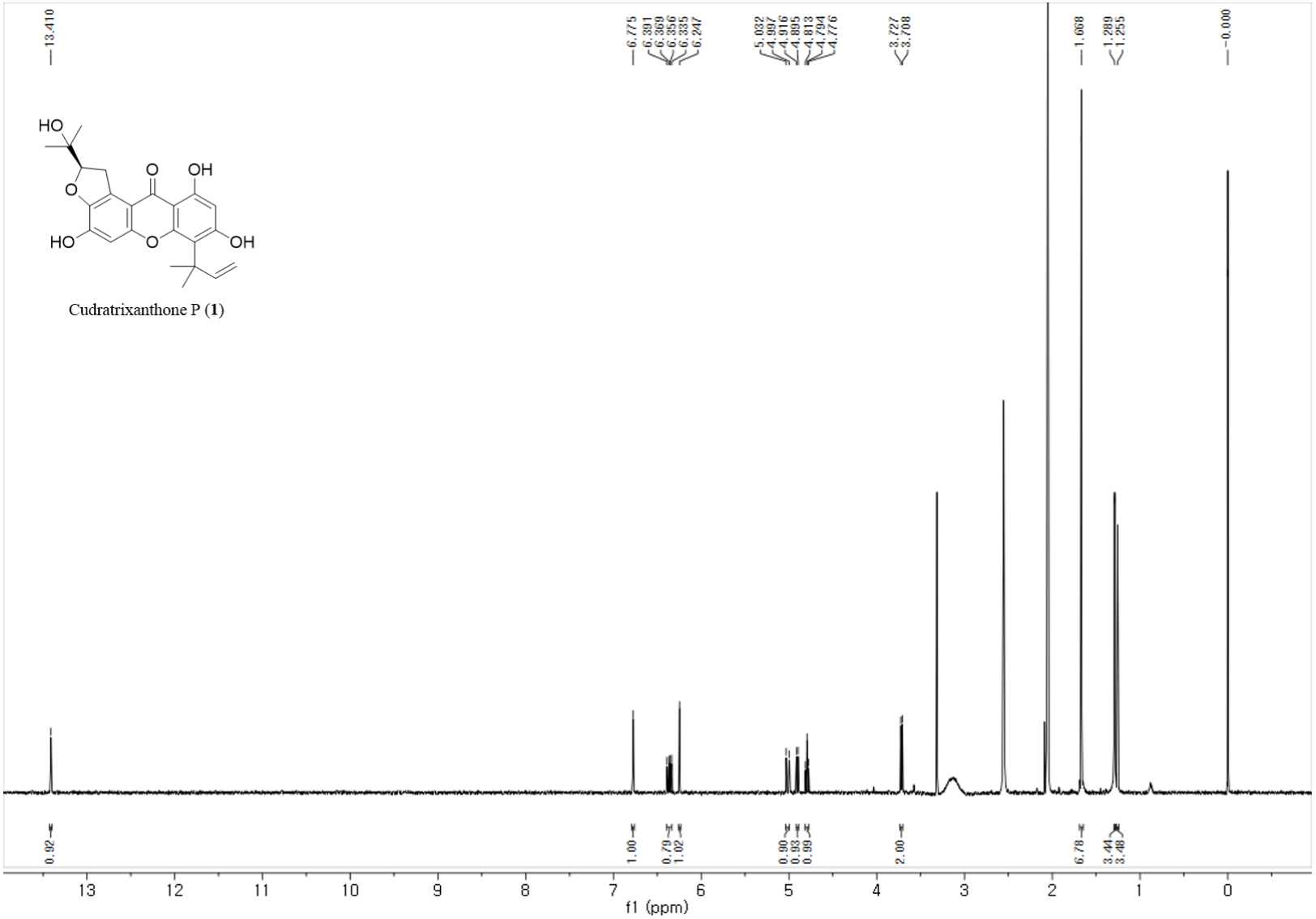
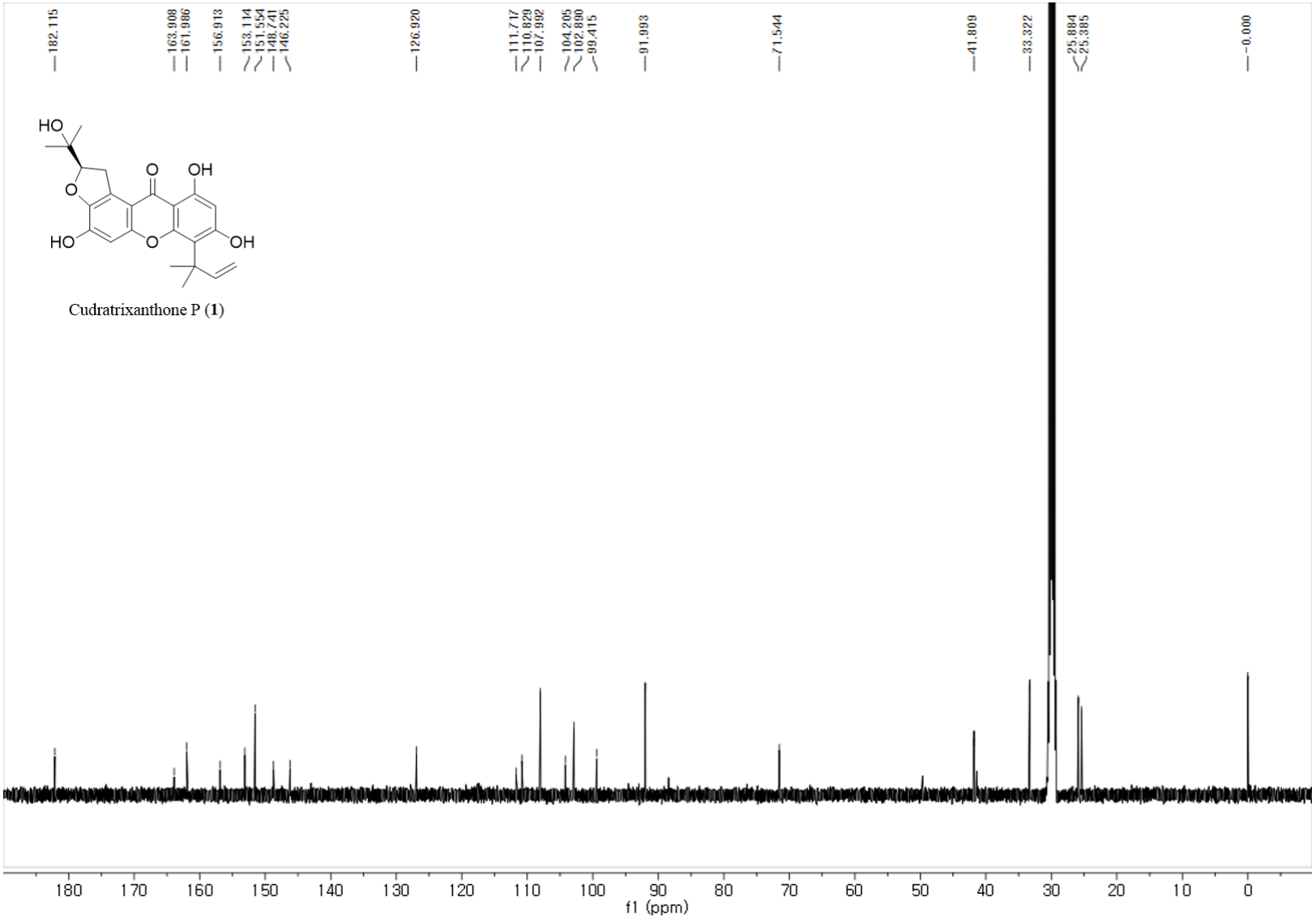
S1. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone P (**1**) in acetone-d_6.



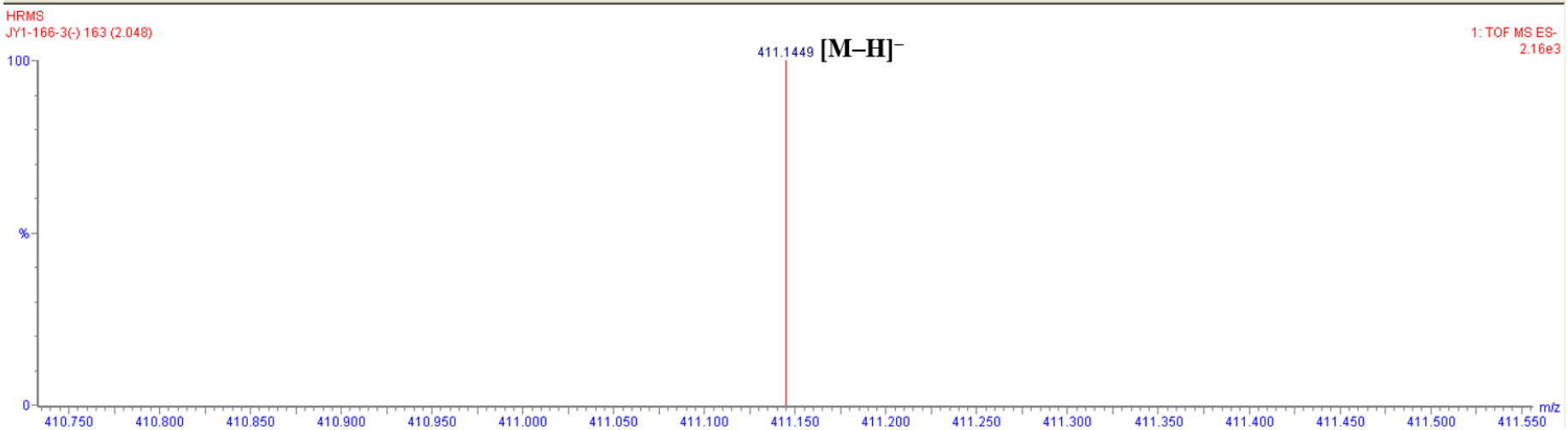
S2. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone P (**1**) in acetone-d_6.



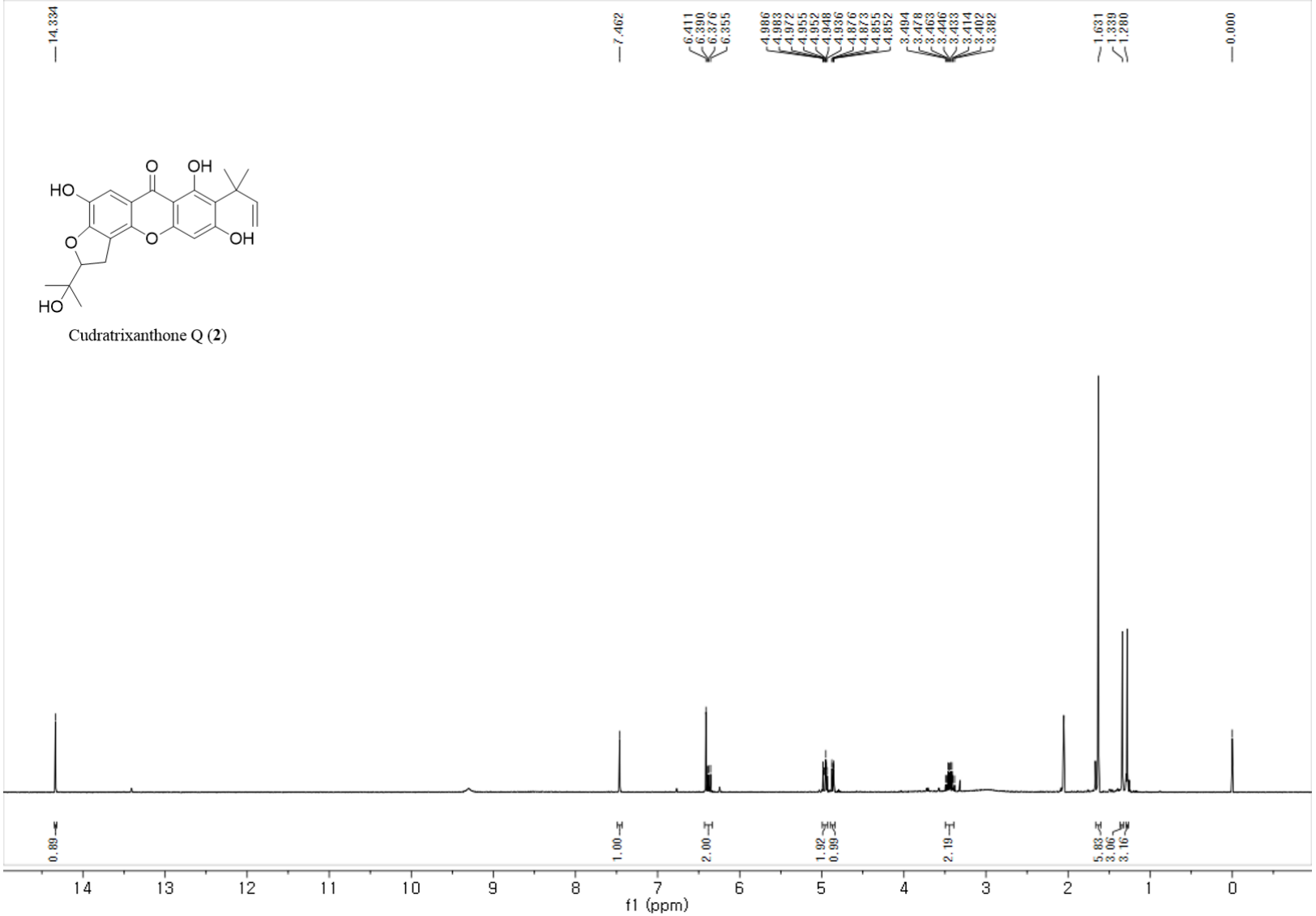
S3. HRESIMS spectrum of cudratrixanthone P (**1**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
78 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

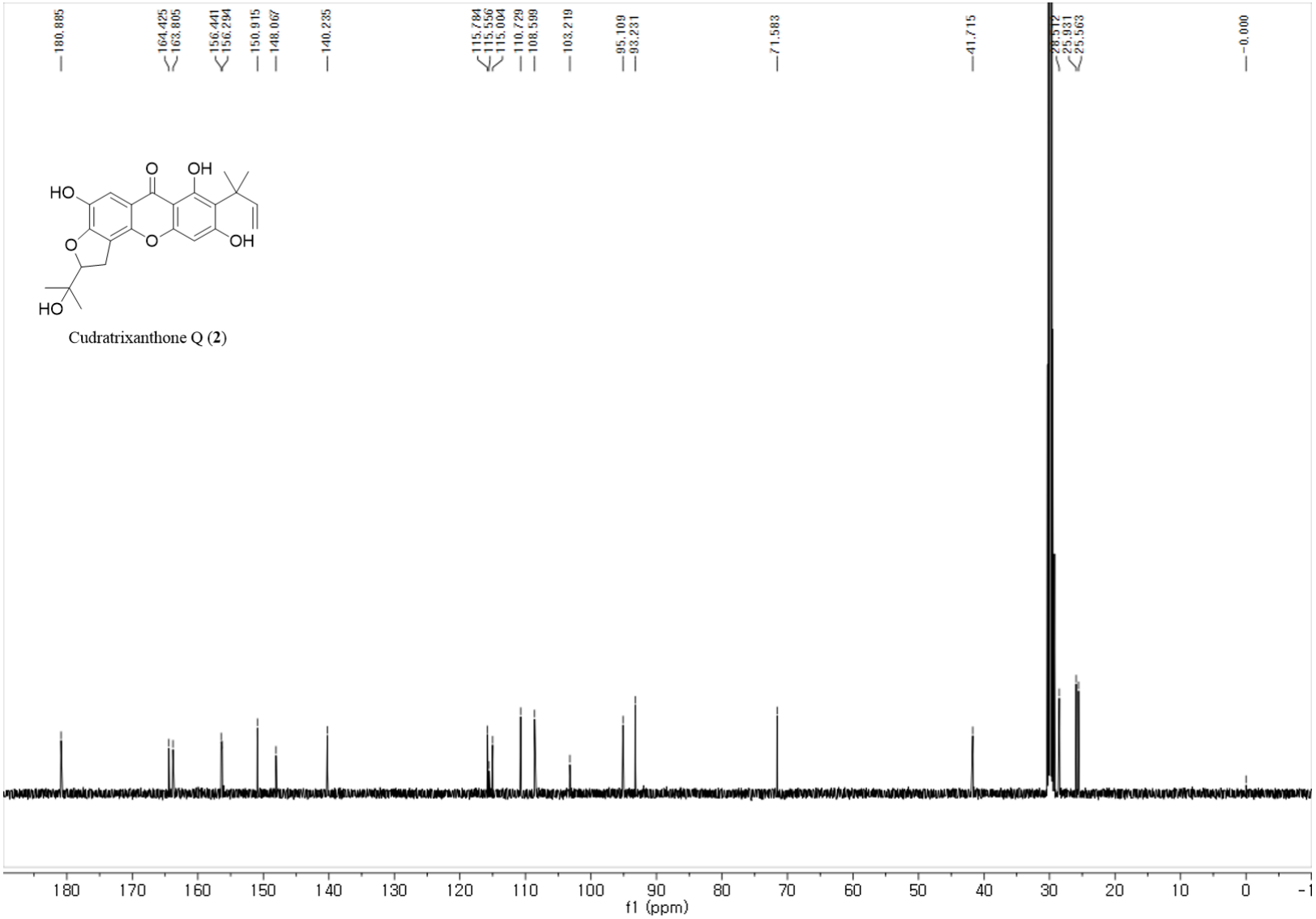
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
411.1449	411.1444	0.5	1.2	12.5	C23 H23 O7	5547096.0	23	23	7



S4. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone Q (**2**) in acetone-d_6.



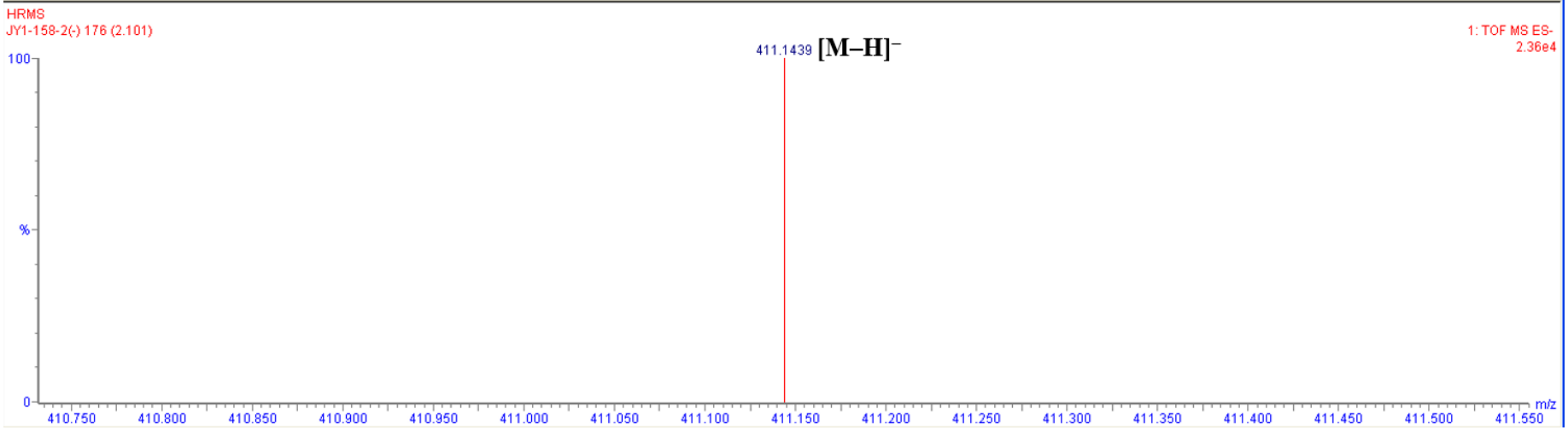
S5. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone Q (**2**) in acetone-d_6.



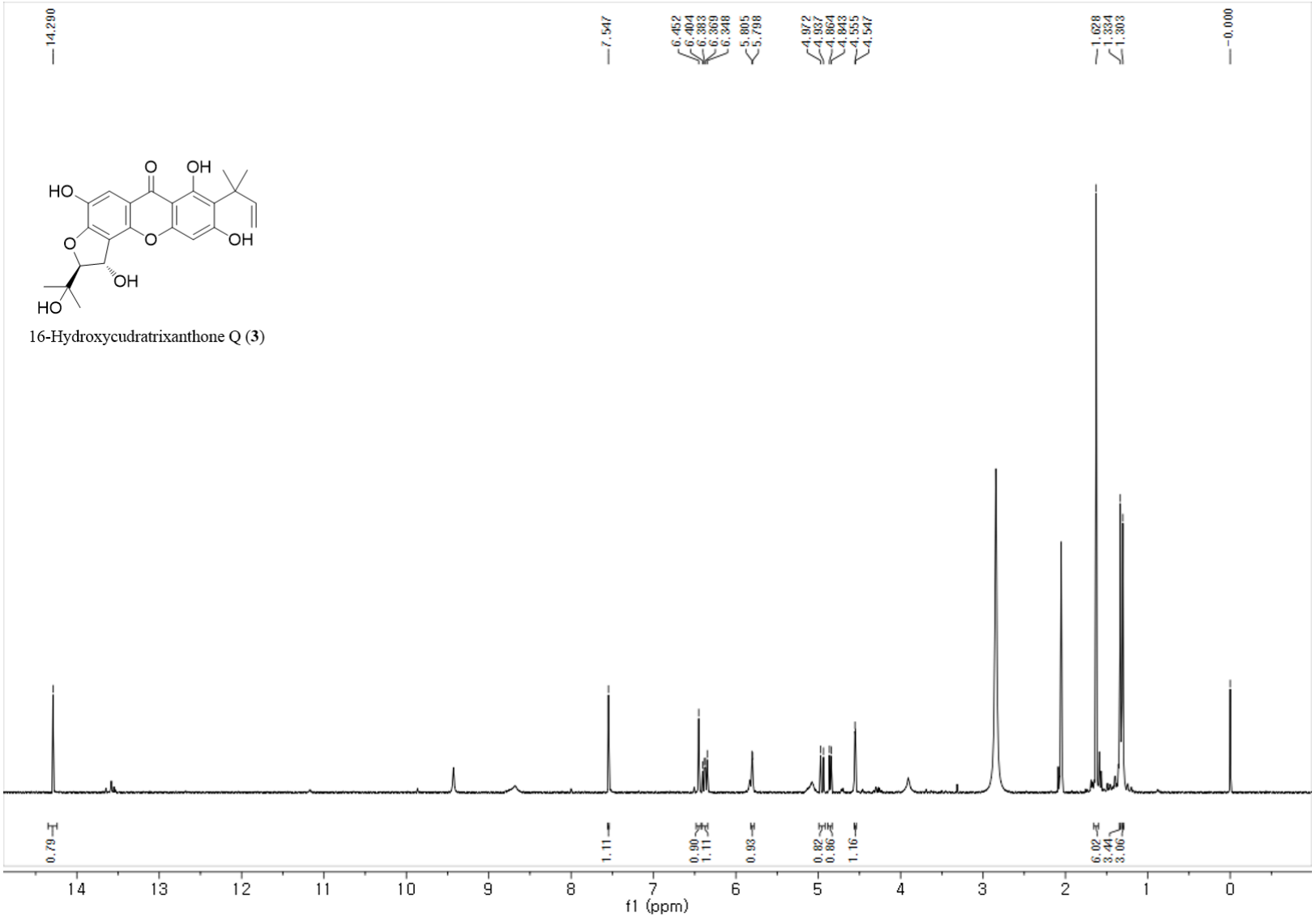
S6. HRESIMS spectrum of cudratrixanthone Q (**2**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
167 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

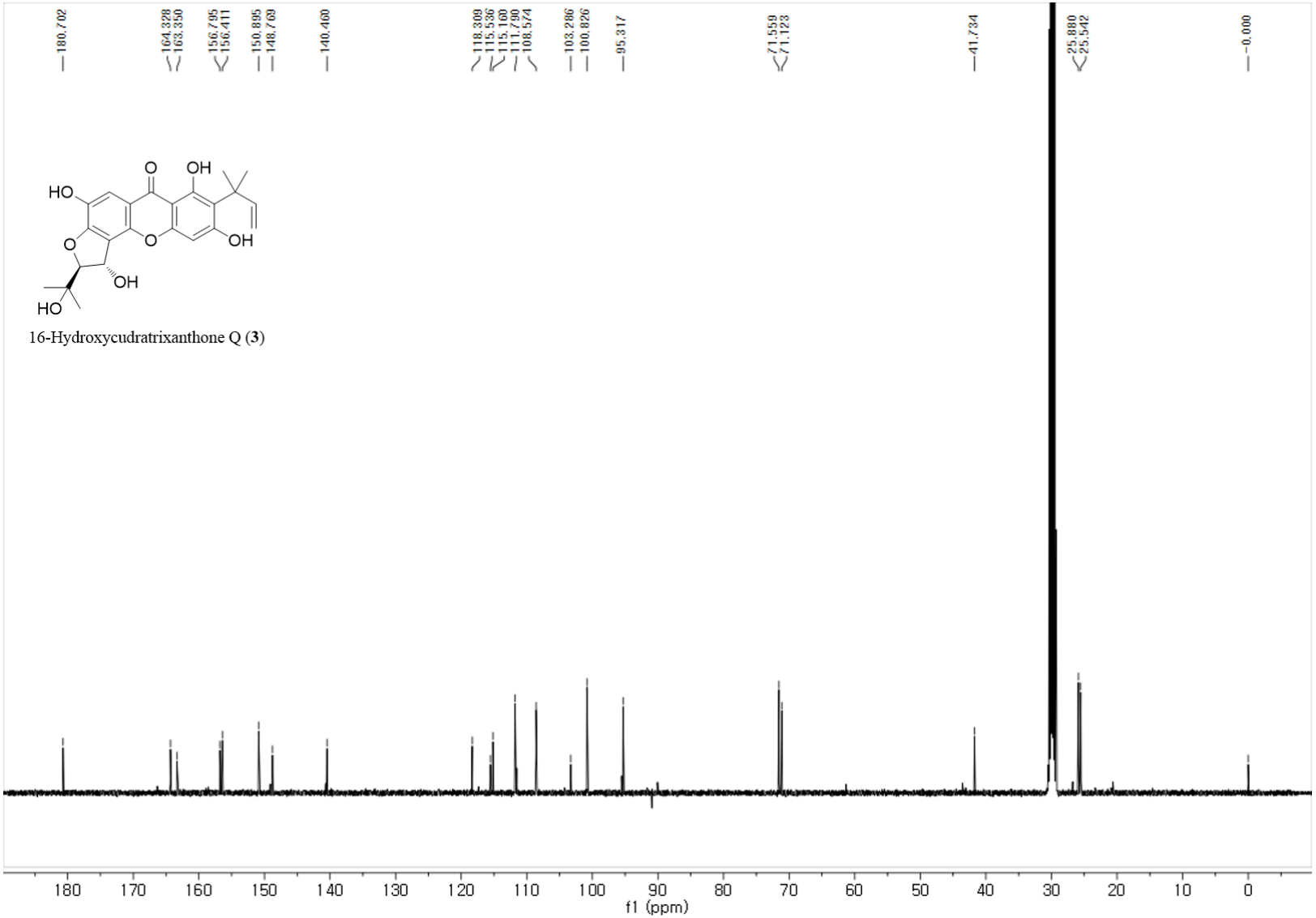
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
411.1439	411.1444	-0.5	-1.2	12.5	C23 H23 O7	5557794.0	23	23		7



S7. ^{1}H NMR spectrum (500 MHz) of 16-hydroxycudratrixanthone Q (**3**) in acetone-d_6.



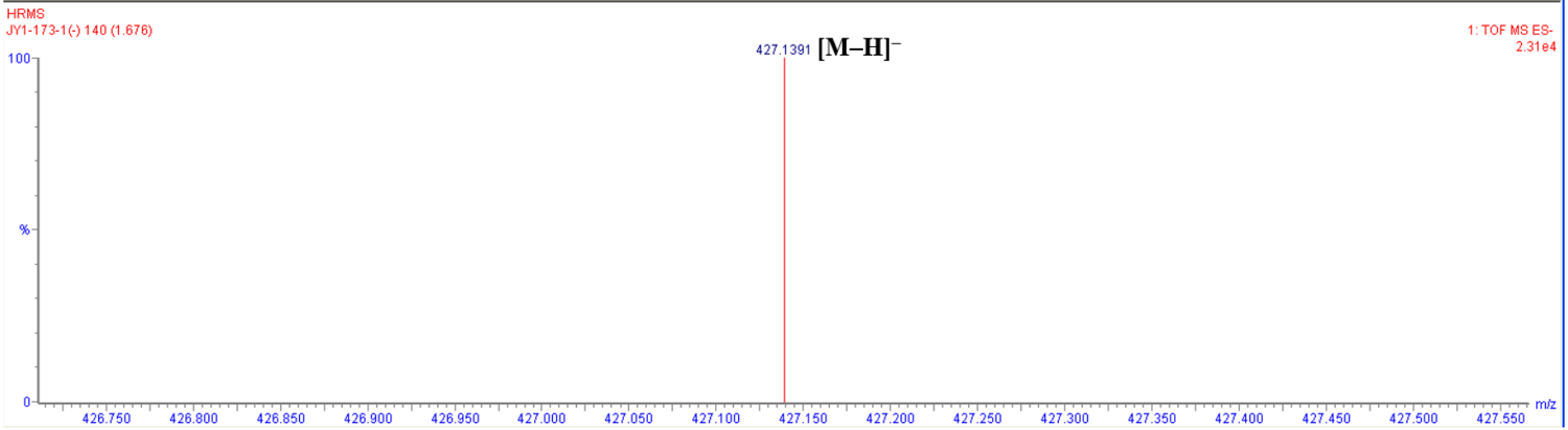
S8. ^{13}C NMR spectrum (125 MHz) of 16-hydroxycudratrixanthone Q (**3**) in acetone-d_6.



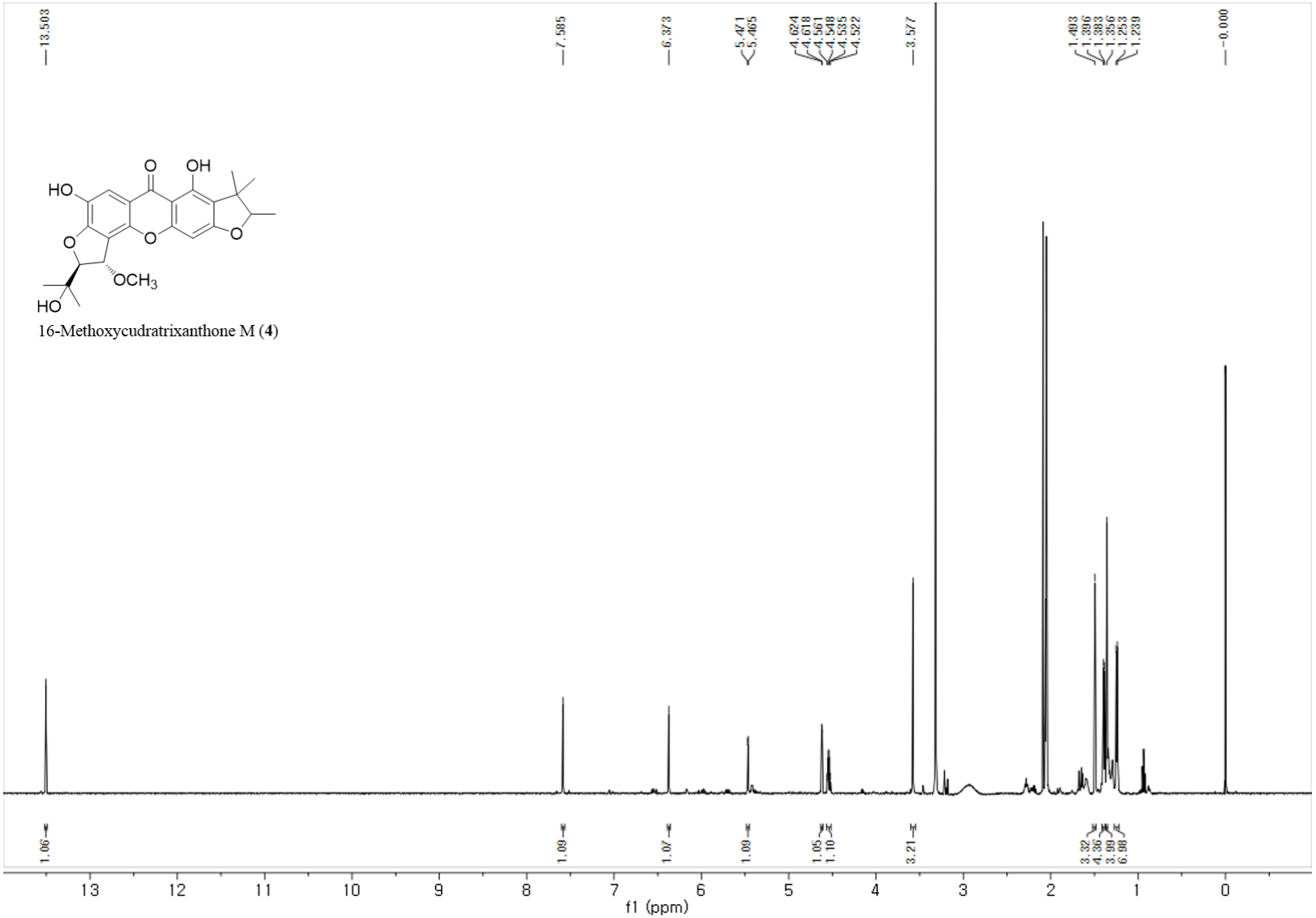
S9. HRESIMS spectrum of 16-hydroxycudratrixanthone Q (**3**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
175 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

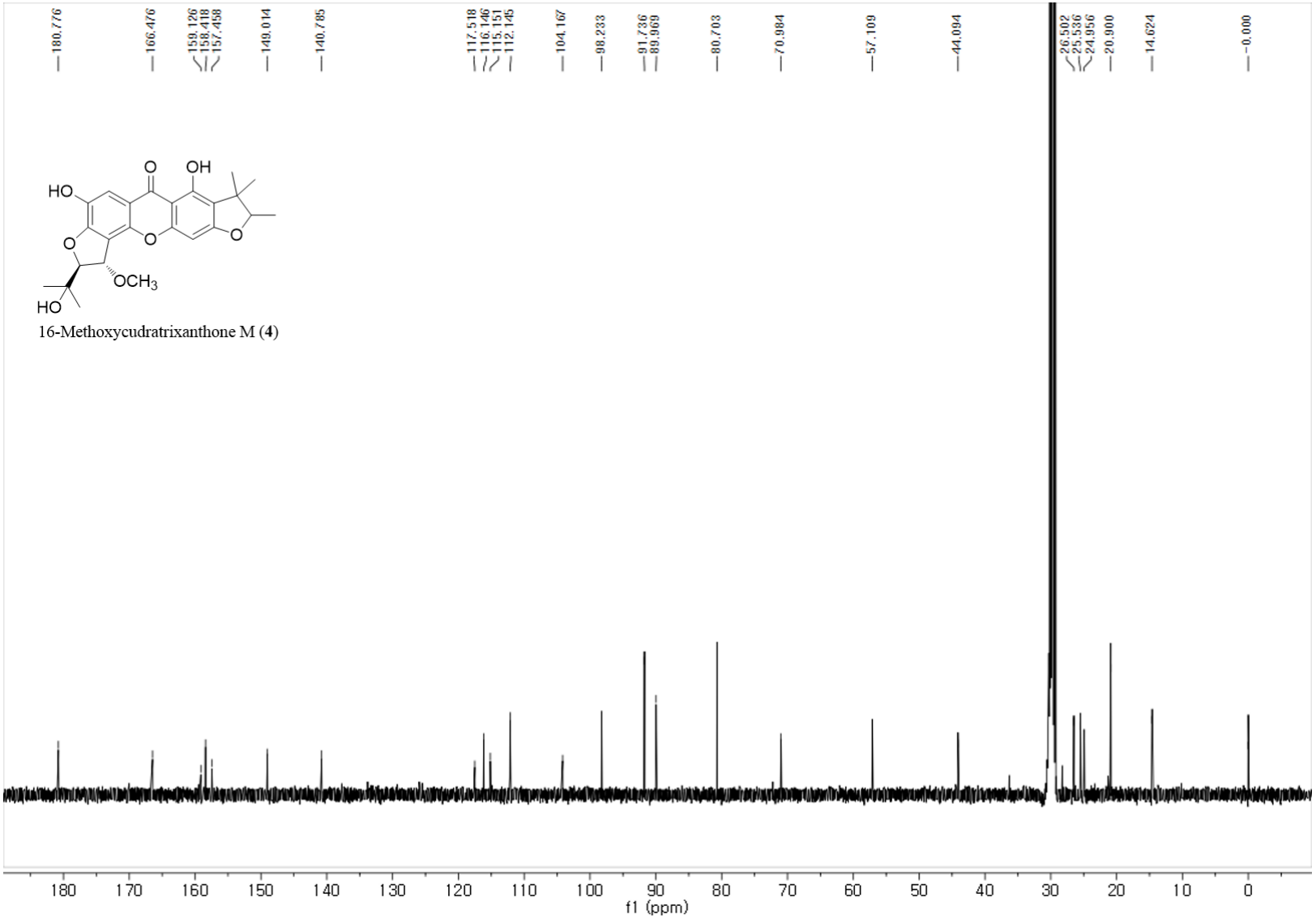
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
427.1391	427.1393	-0.2	-0.5	12.5	C23 H23 O8	5557574.0	23	23		8



S10. ^{1}H NMR spectrum (500 MHz) of 16-methoxycudratrixanthone M (**4**) in acetone-d_6.



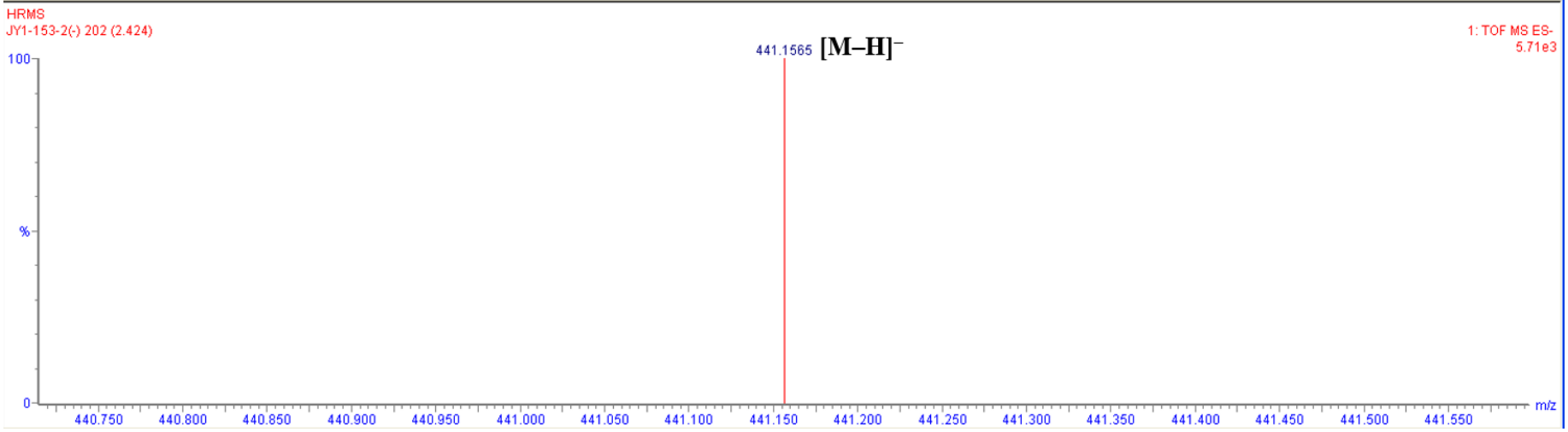
S11. ^{13}C NMR spectrum (125 MHz) of 16-methoxycudratrixanthone M (**4**) in acetone-d_6.



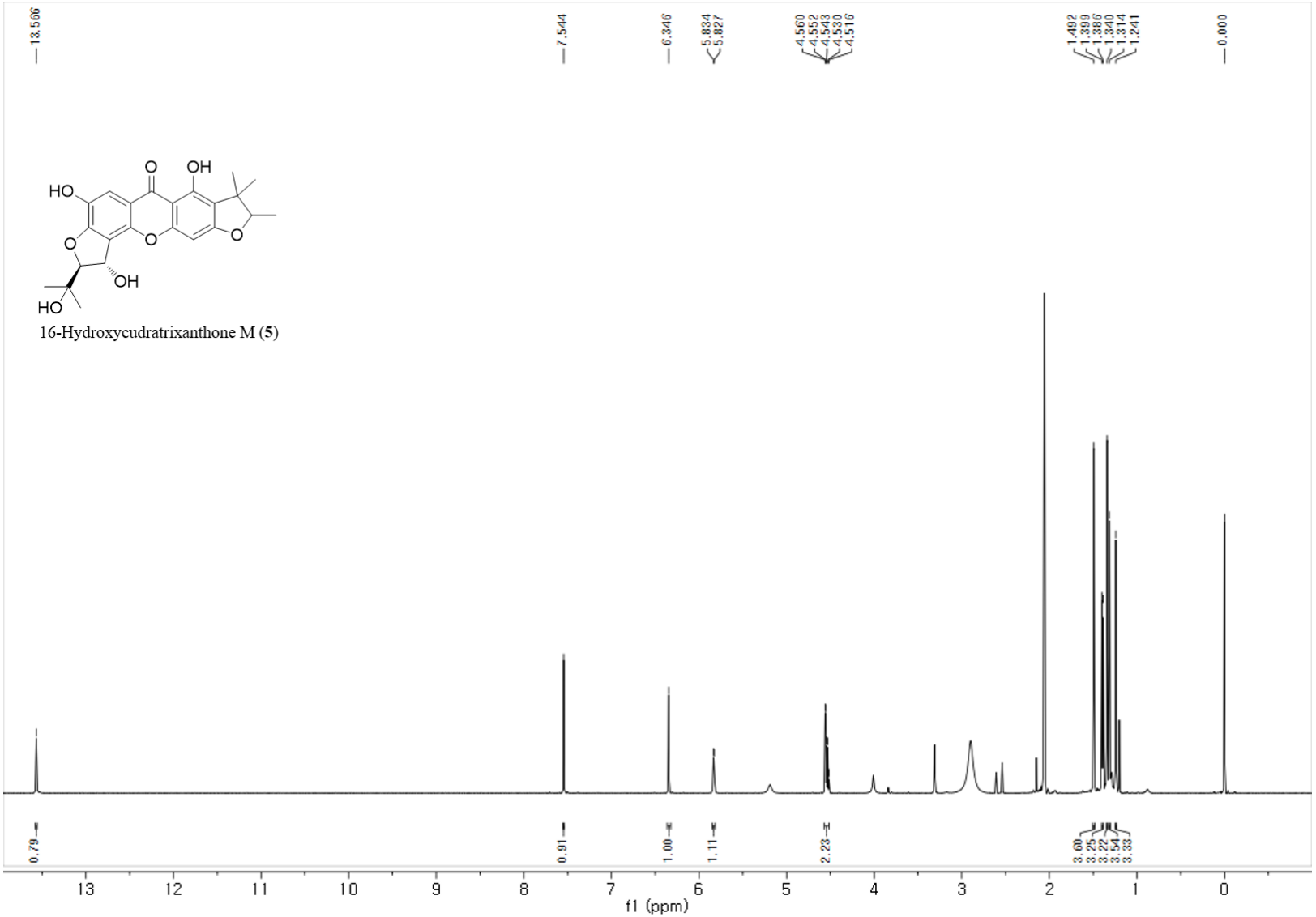
S12. HRESIMS spectrum of 16-methoxycudratrixanthone M (**4**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
182 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

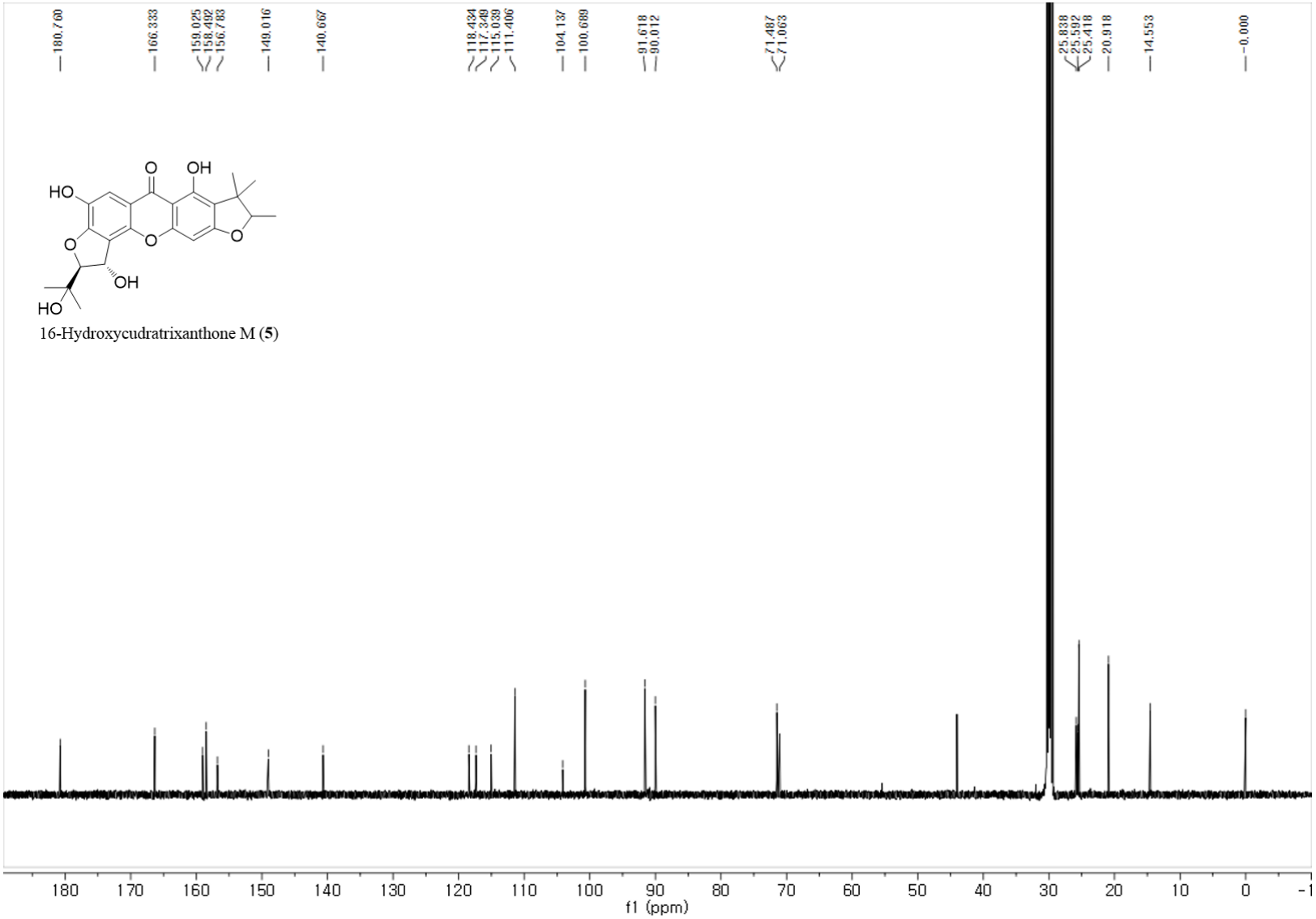
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
441.1565	441.1549	1.6	3.6	12.5	C24 H25 O8	5548868.0	24	25		8



S13. ^{1}H NMR spectrum (500 MHz) of 16-hydroxycudratrixanthone M (**5**) in acetone-d_6.



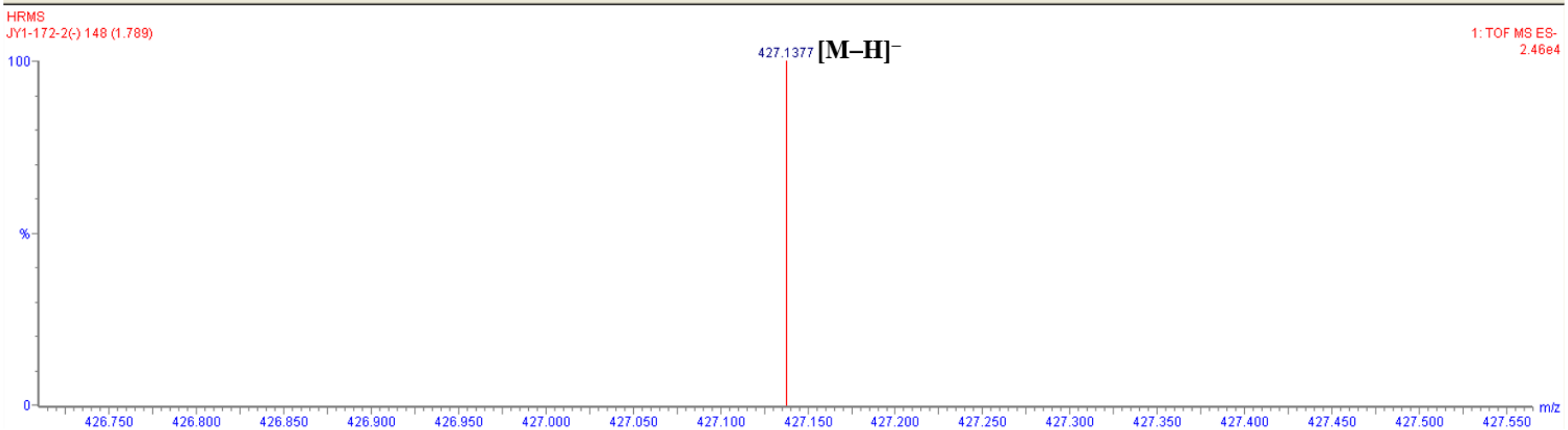
S14. ^{13}C NMR spectrum (125 MHz) of 16-hydroxycudratrixanthone M (**5**) in acetone-d_6.



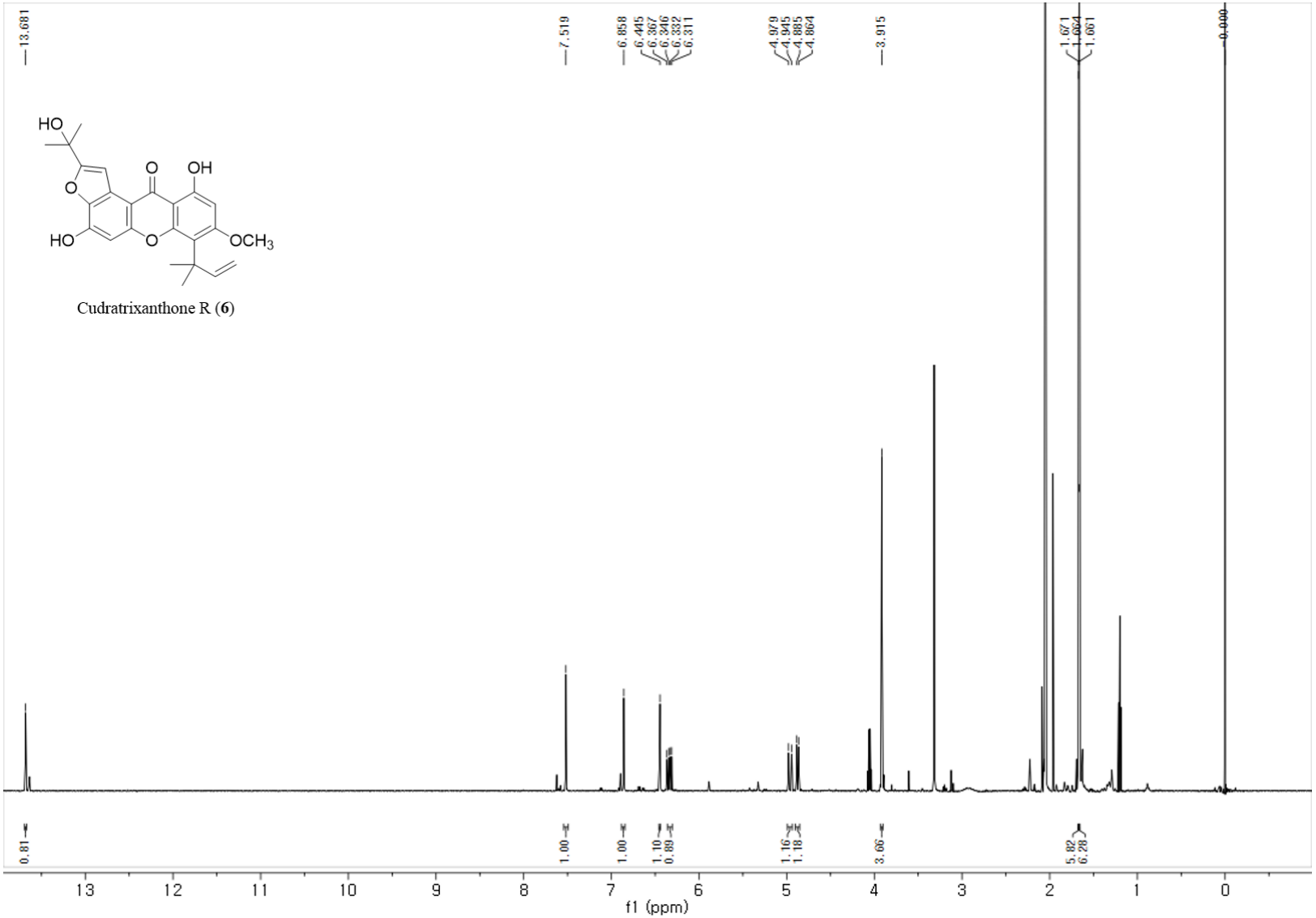
S15. HRESIMS spectrum of 16-hydroxycudratrixanthone M (**5**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
175 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

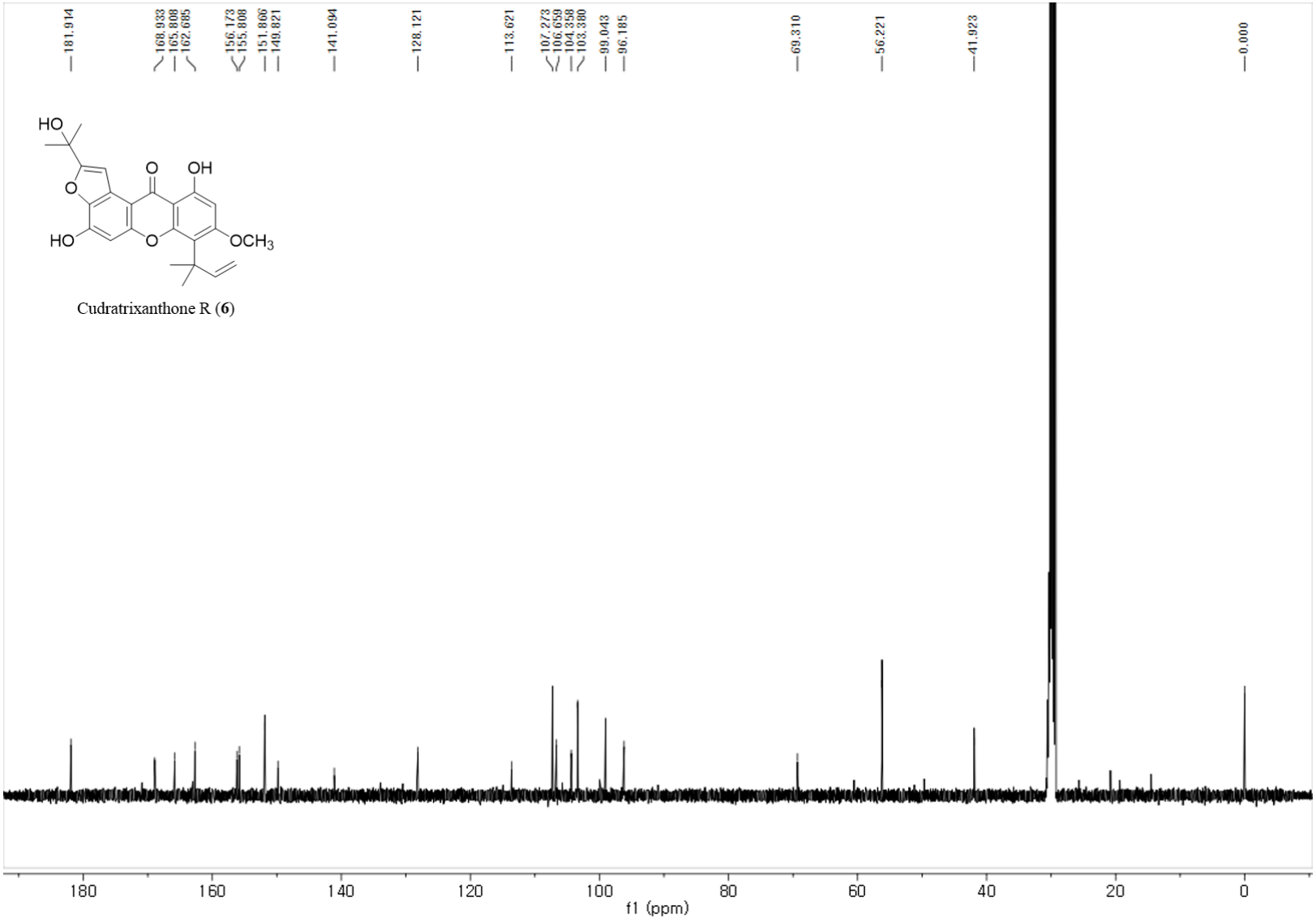
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
427.1377	427.1393	-1.6	-3.7	12.5	C23 H23 O8	5558310.0	23	23		8



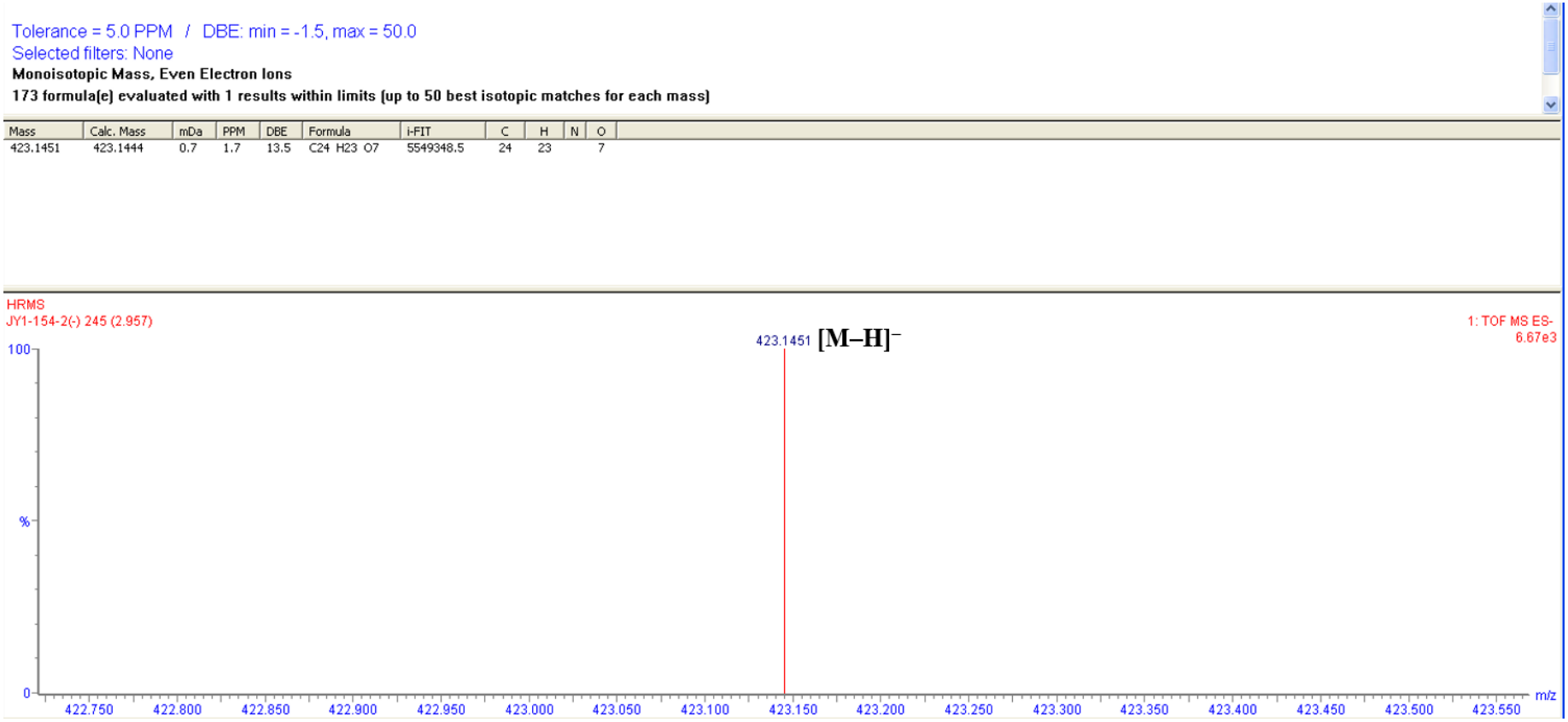
S16. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone R (**6**) in acetone-d_6.



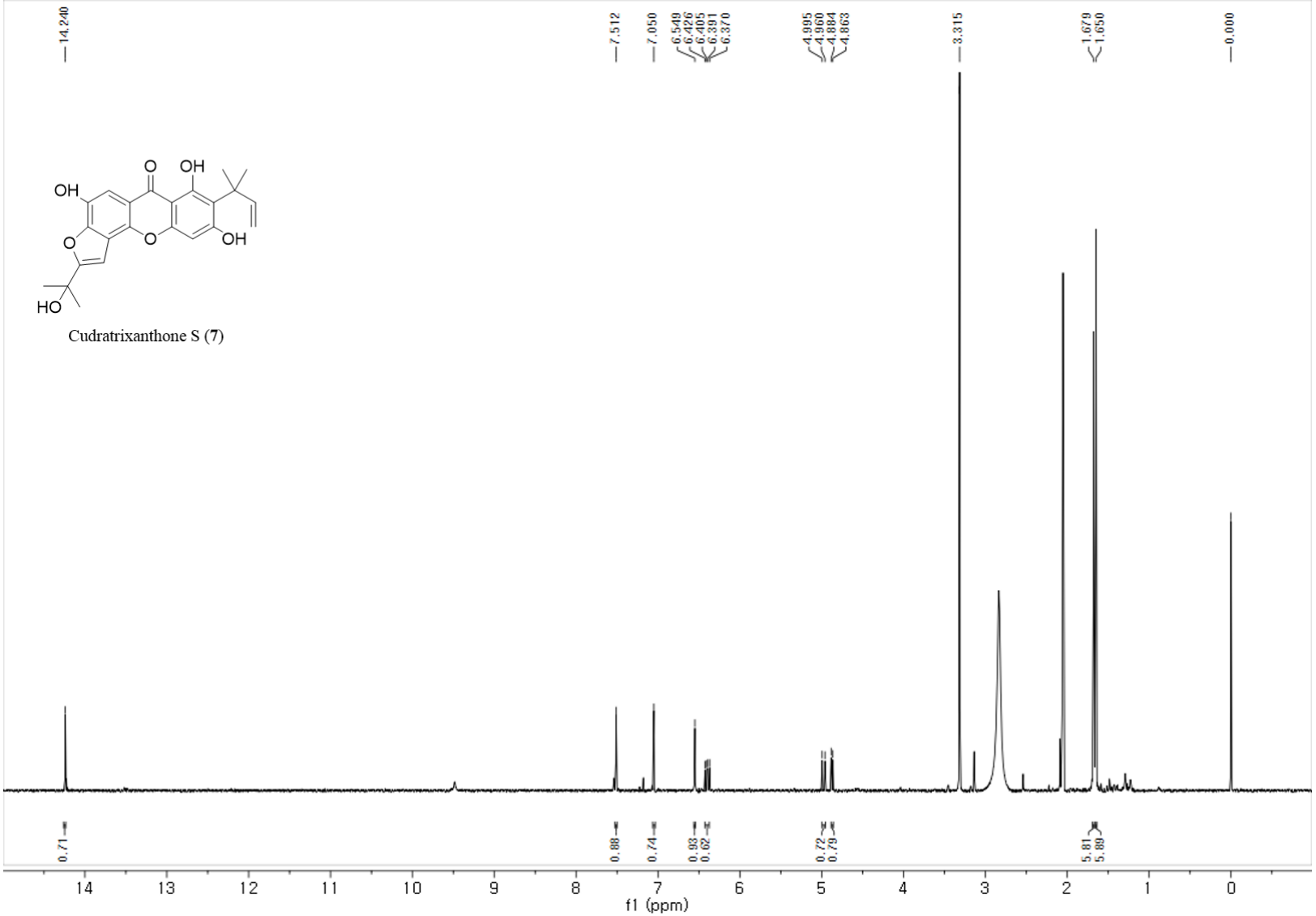
S17. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone R (**6**) in acetone-d_6.



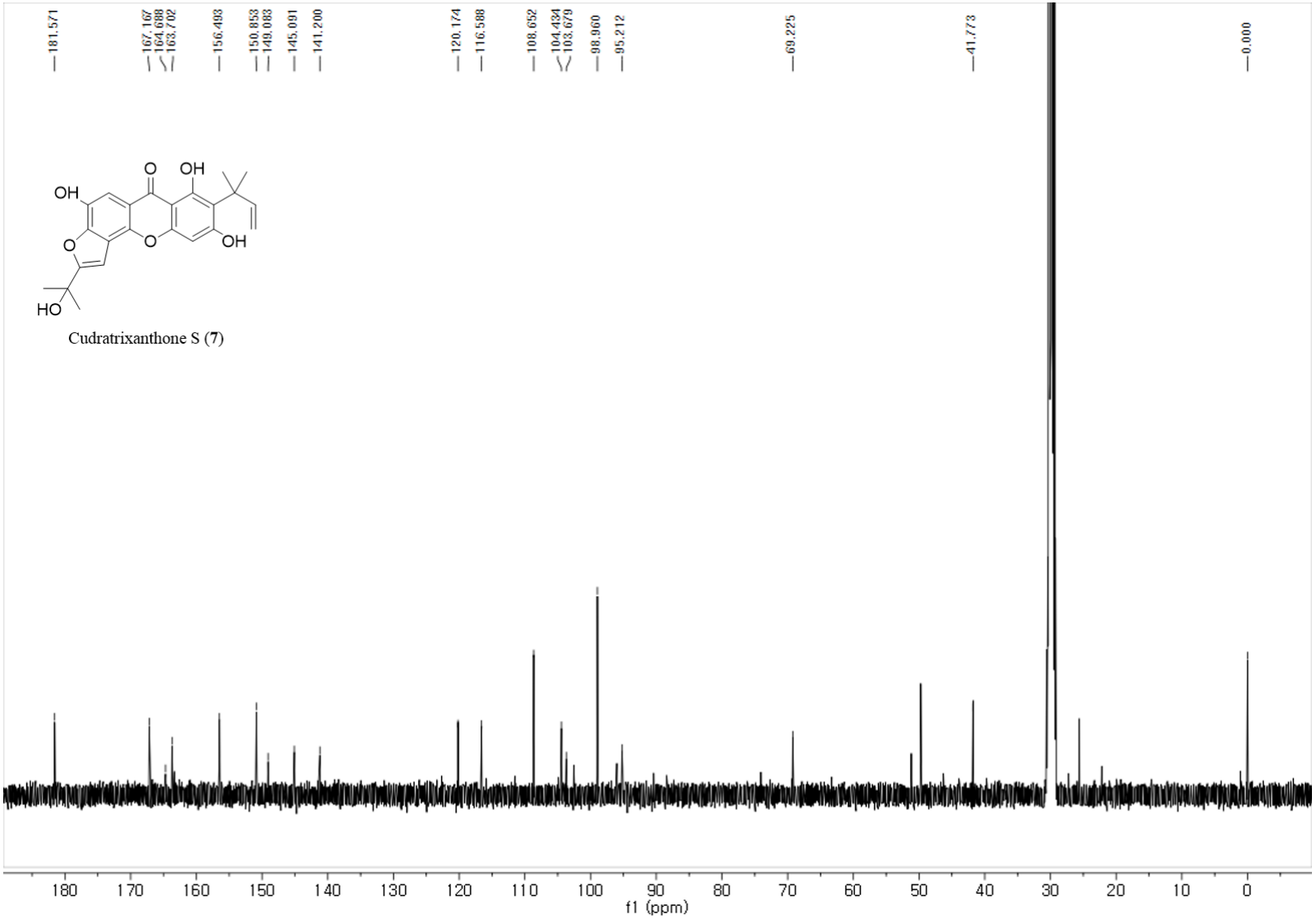
S18. HRESIMS spectrum of cudratrixanthone R (**6**).



S19. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone S (**7**) in acetone-d_6.



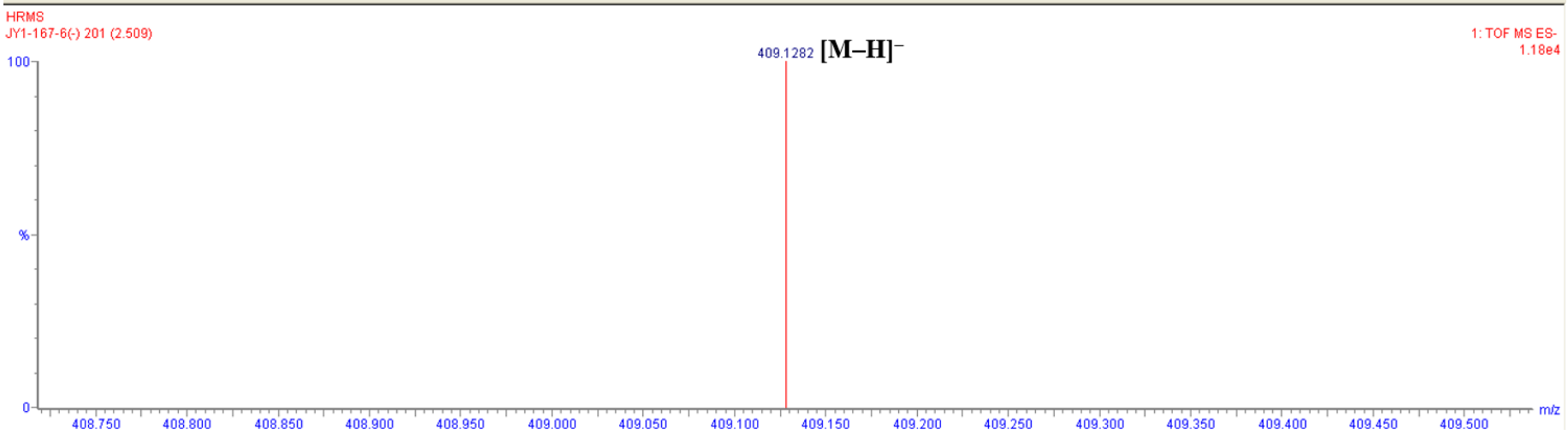
S20. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone S (**7**) in acetone-d_6.



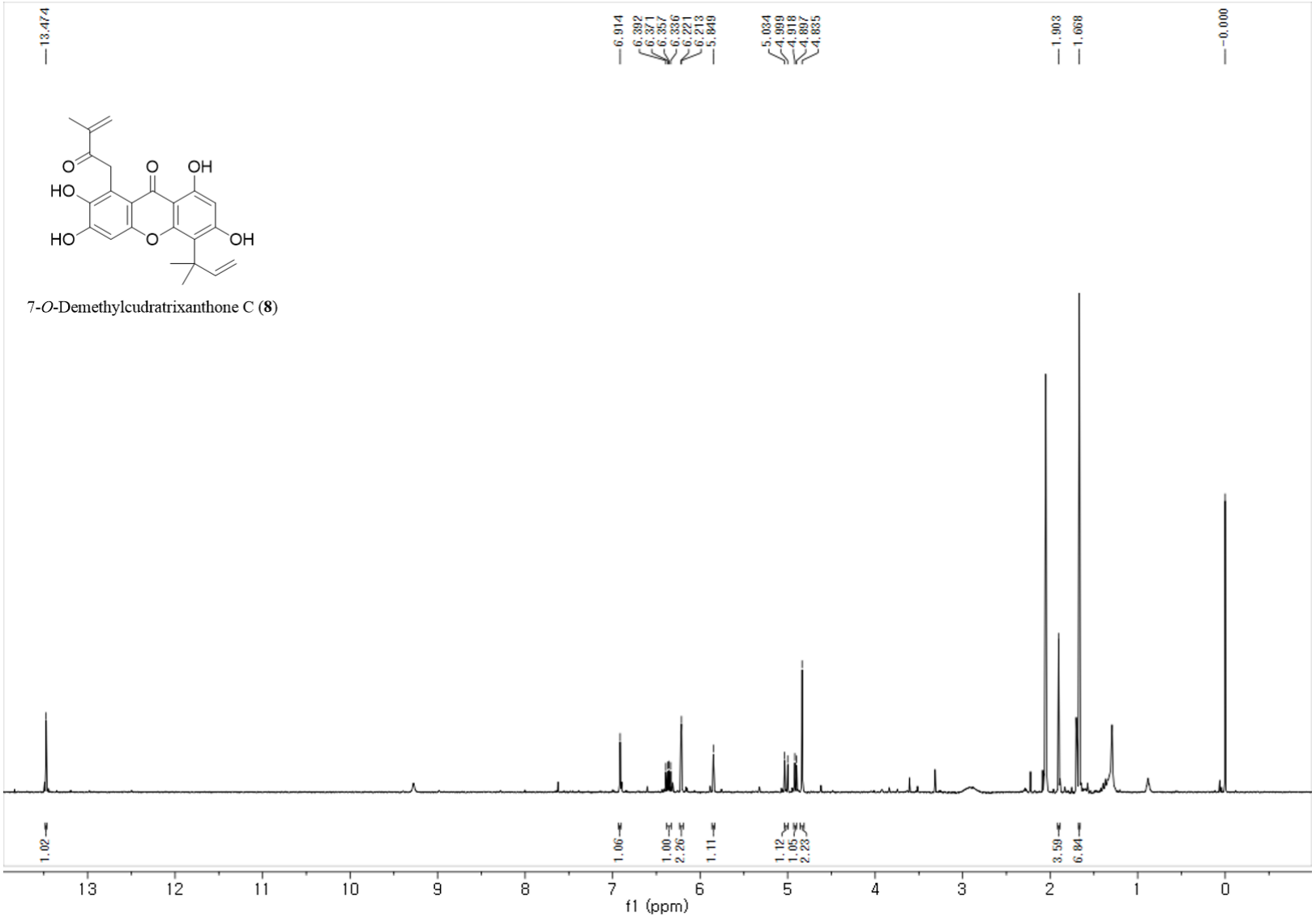
S21. HRESIMS spectrum of cudratrixanthone S (**7**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
76 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

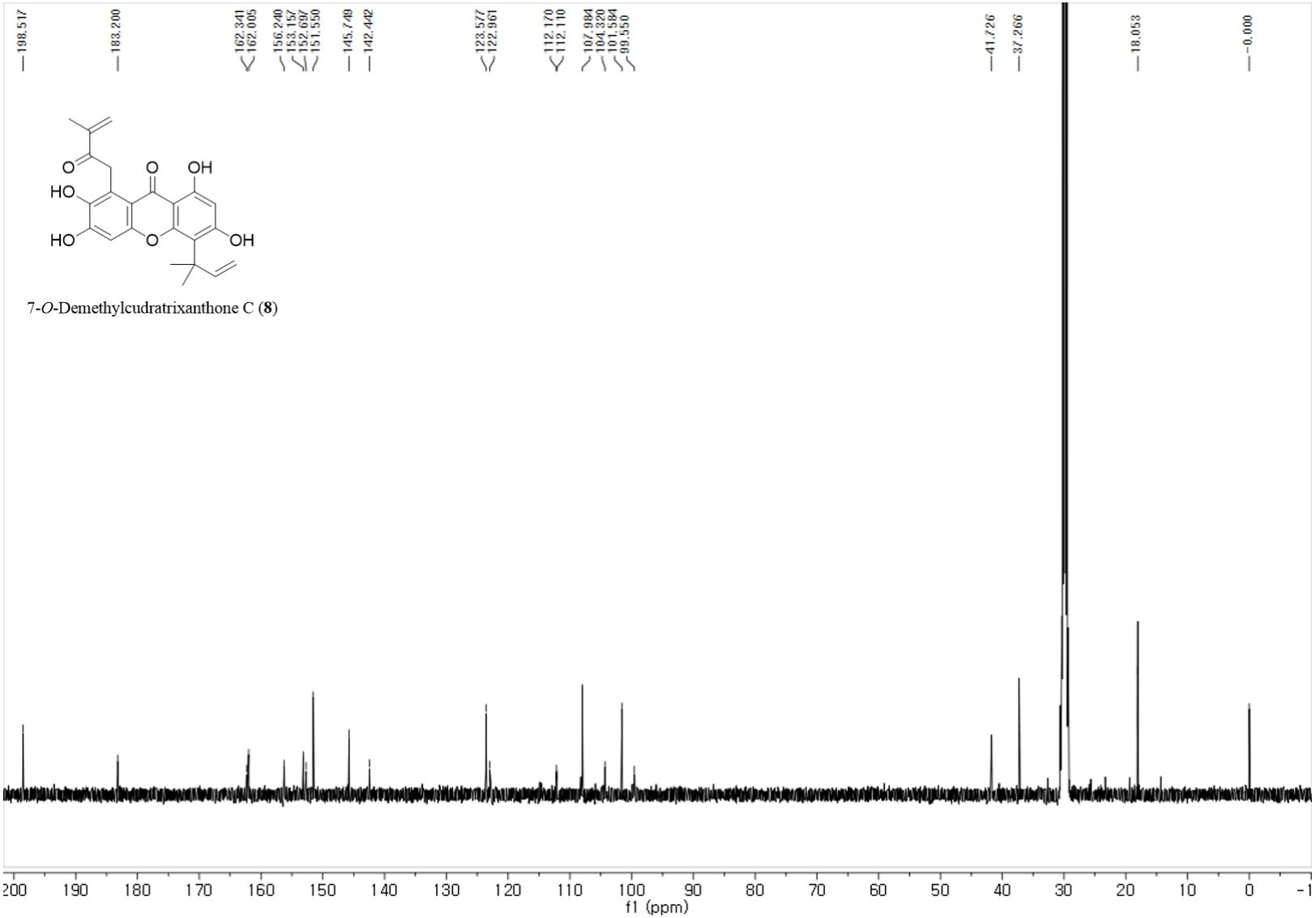
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
409.1282	409.1287	-0.5	-1.2	13.5	C23 H21 O7	5551914.0	23	21	7



S22. ^{1}H NMR spectrum (500 MHz) of 7-*O*-demethylcudratrixanthone C (**8**) in acetone-d_6.



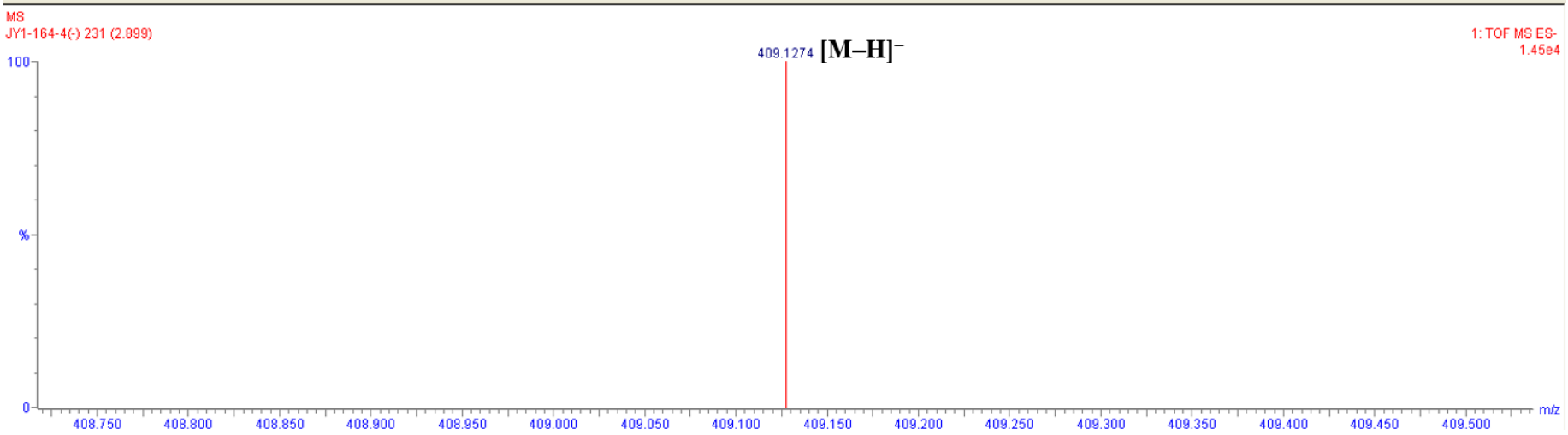
S23. ^{13}C NMR spectrum (125 MHz) of 7-*O*-demethylcudratrixanthone C (**8**) in acetone-d_6.



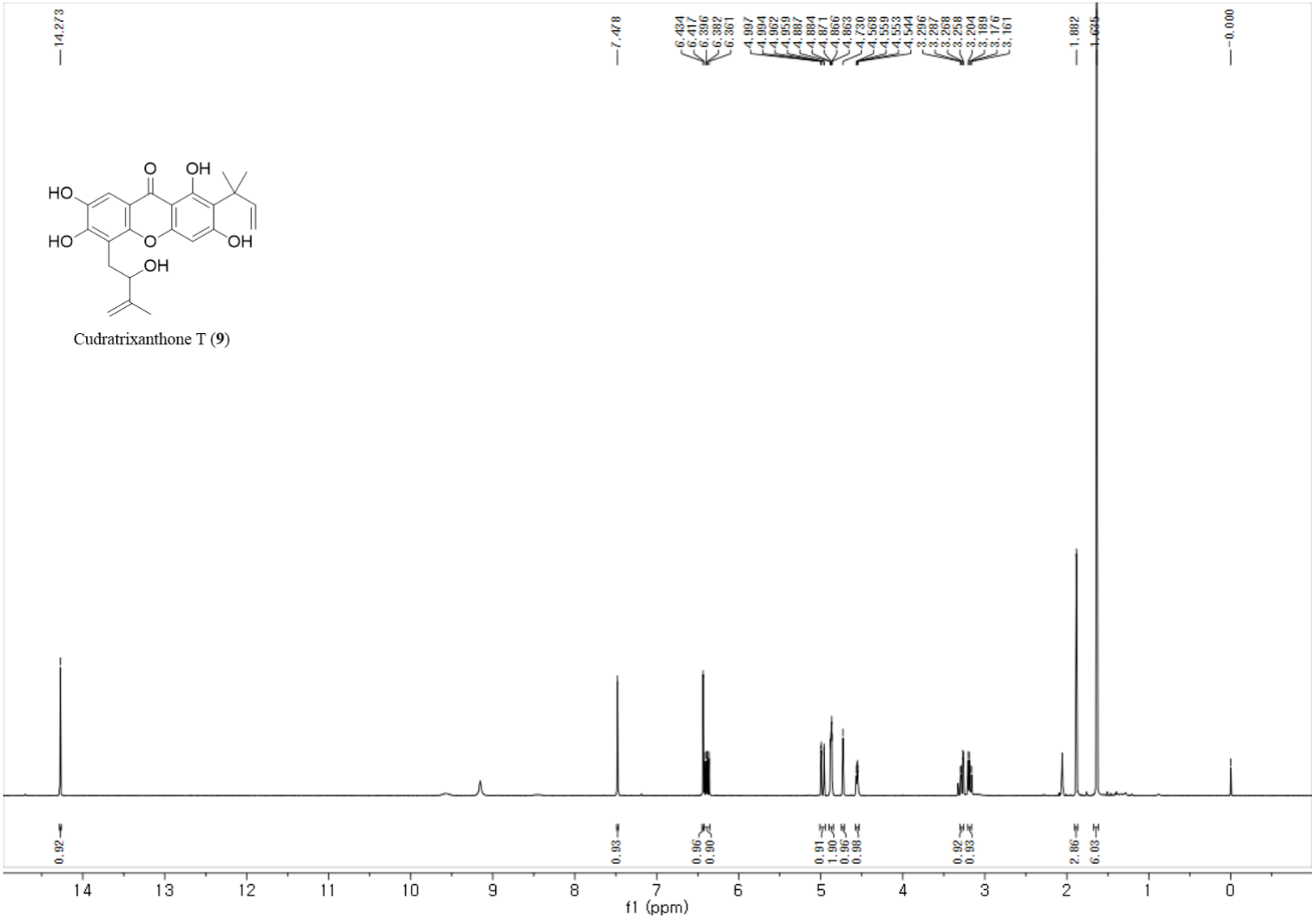
S24. HRESIMS spectrum of 7-*O*-demethylcudratrixanthone C (**8**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
76 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

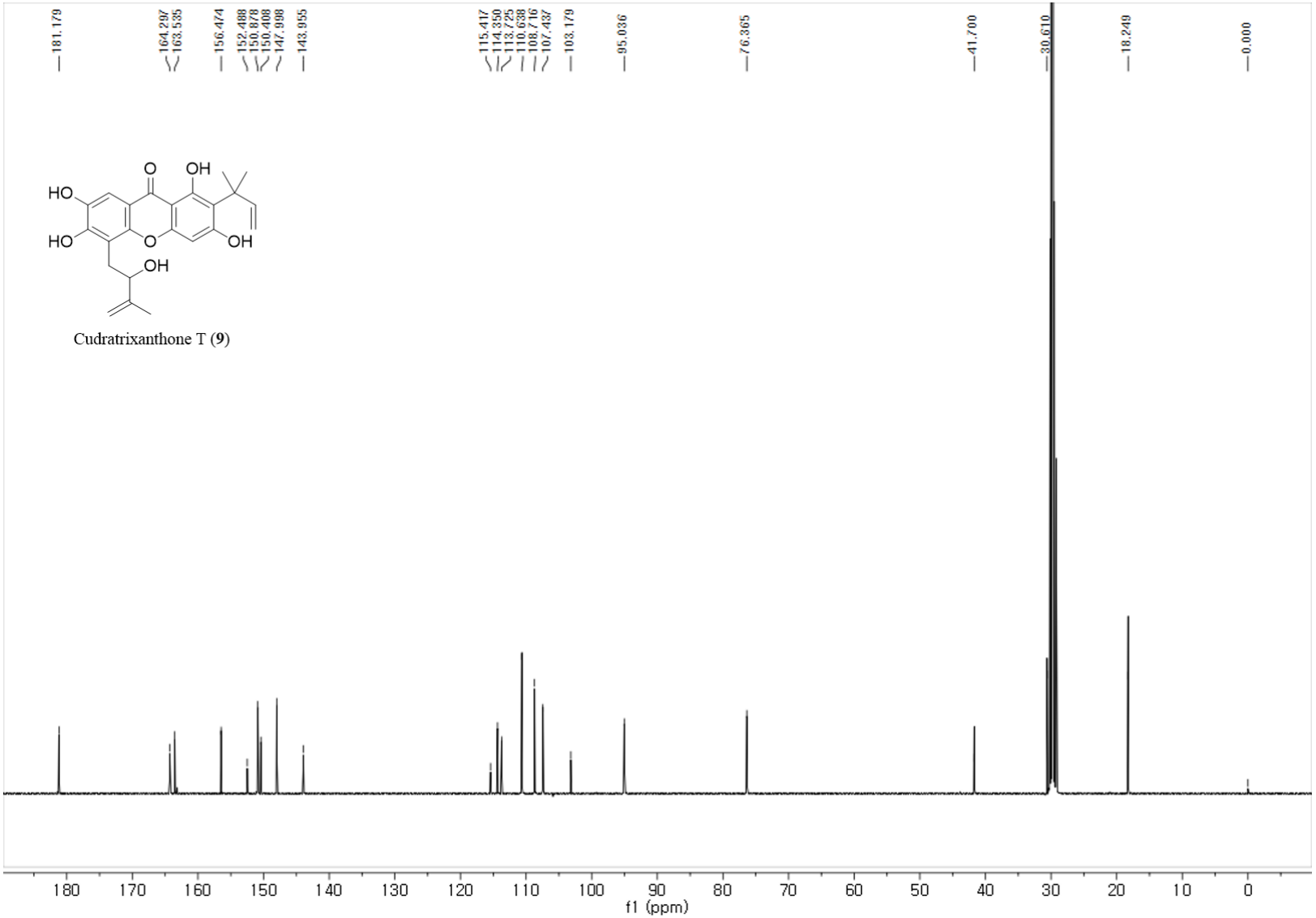
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
409.1274	409.1287	-1.3	-3.2	13.5	C23 H21 O7	5553279.5	23	21	7



S25. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone T (**9**) in acetone-d_6.



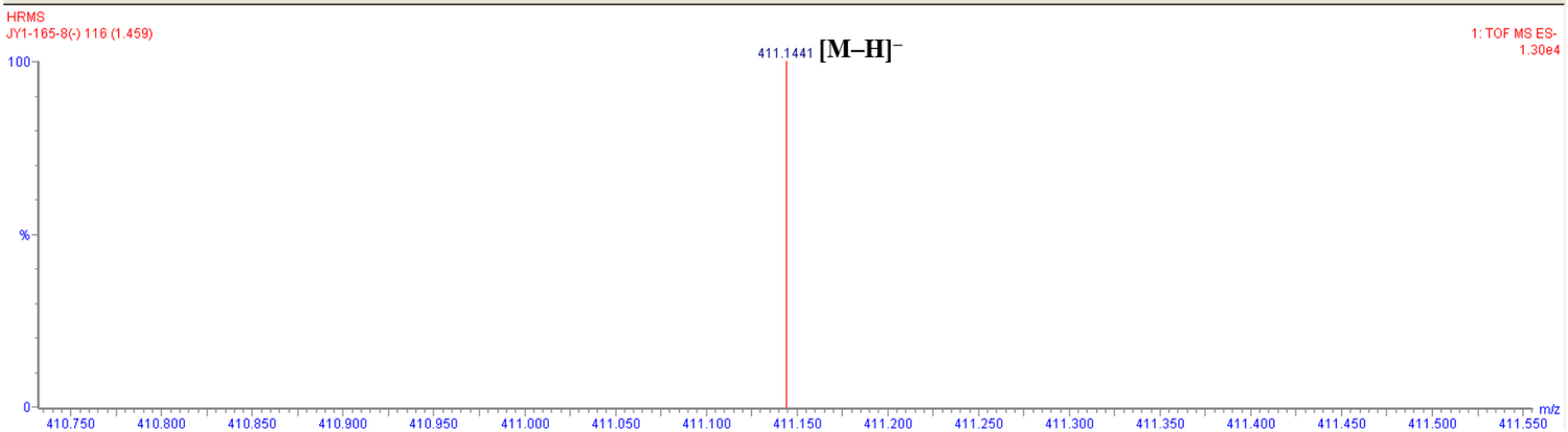
S26. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone T (**9**) in acetone-d_6.



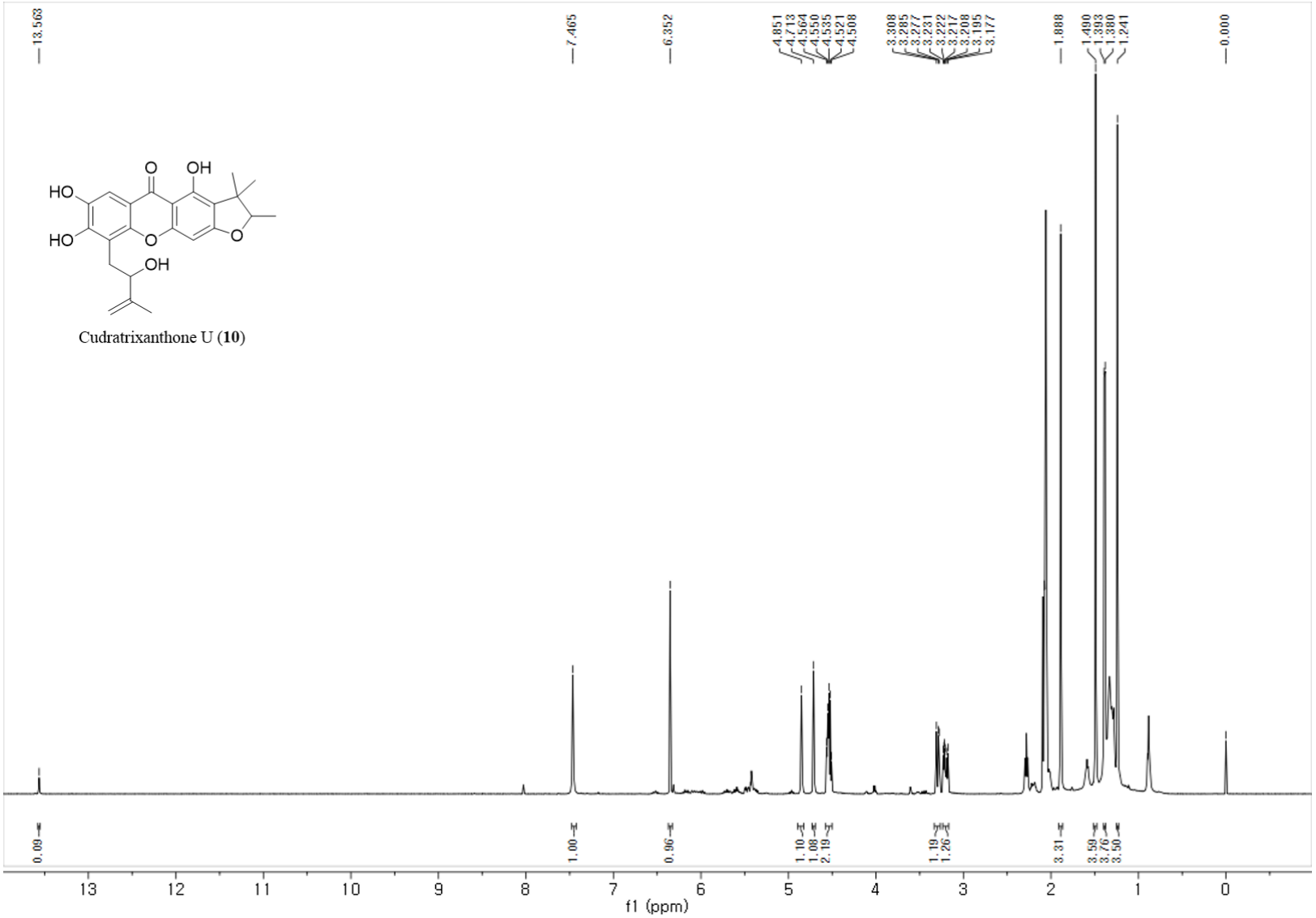
S27. HRESIMS spectrum of cudratrixanthone T (**9**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
78 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

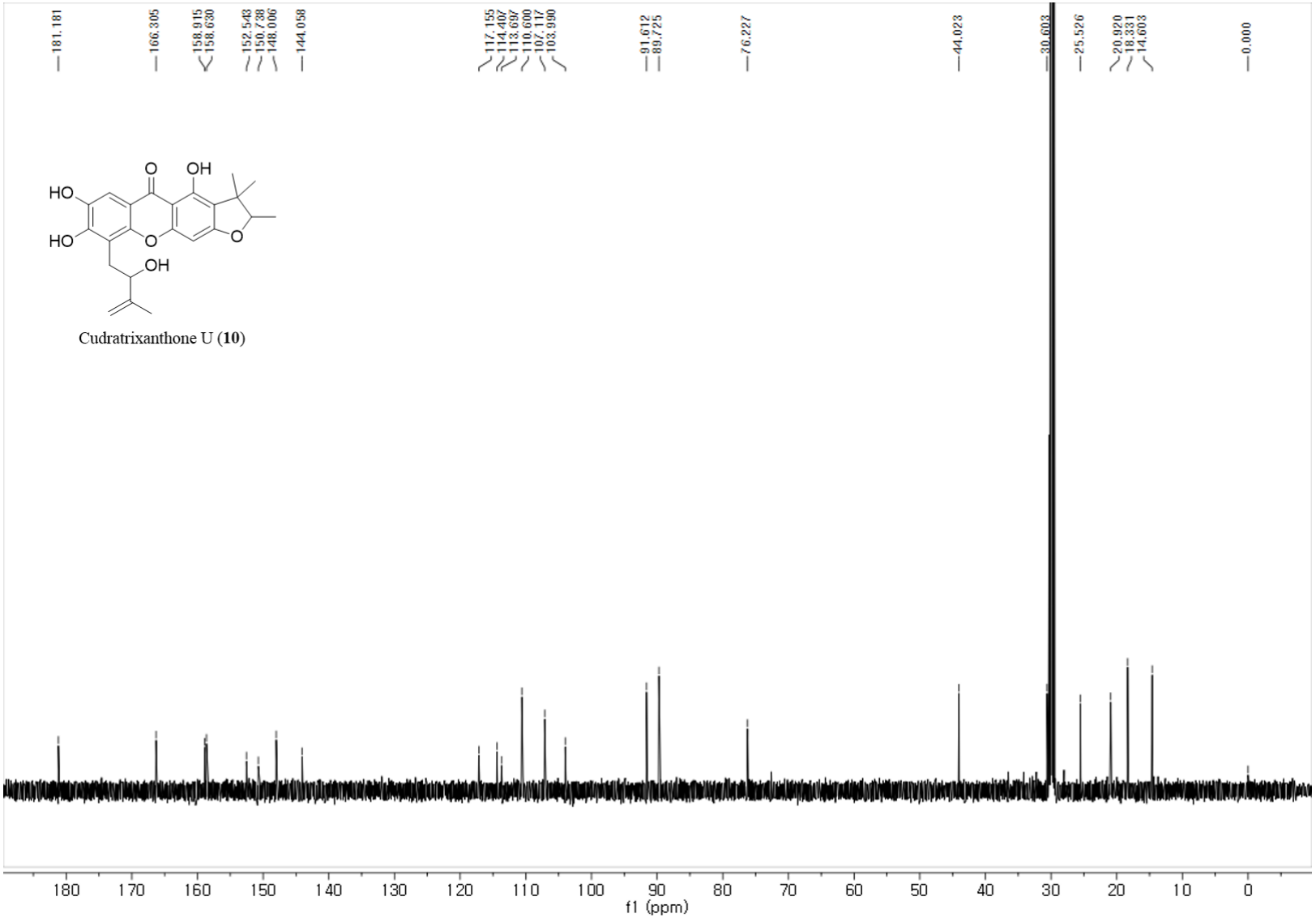
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
411.1441	411.1444	-0.3	-0.7	12.5	C23 H23 O7	5552514.0	23	23	7



S28. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone U (**10**) in acetone-d_6.



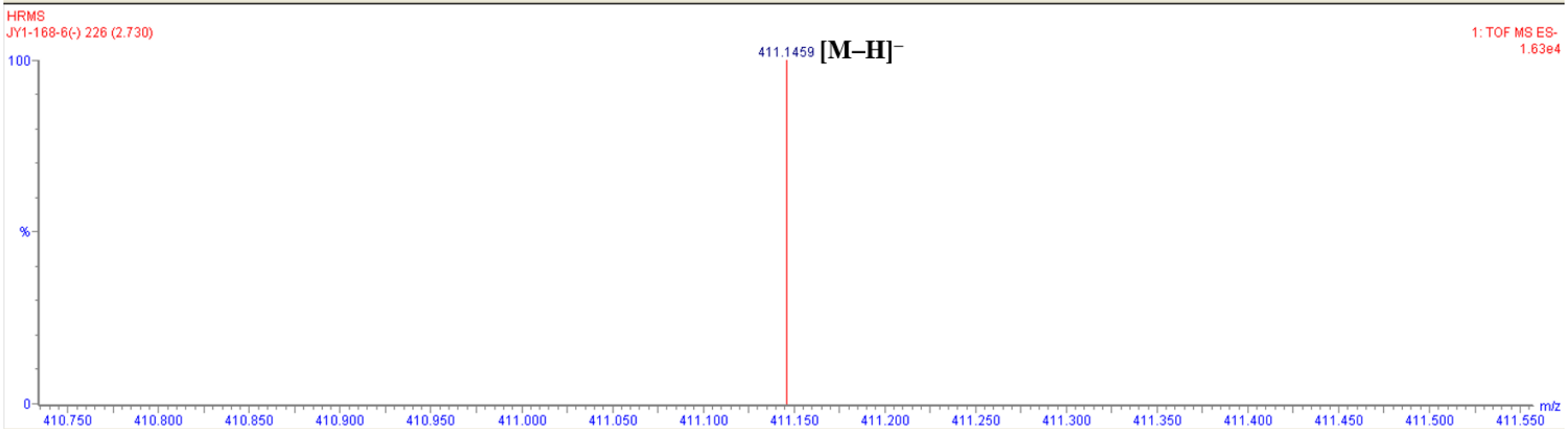
S29. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone U (**10**) in acetone-d_6.



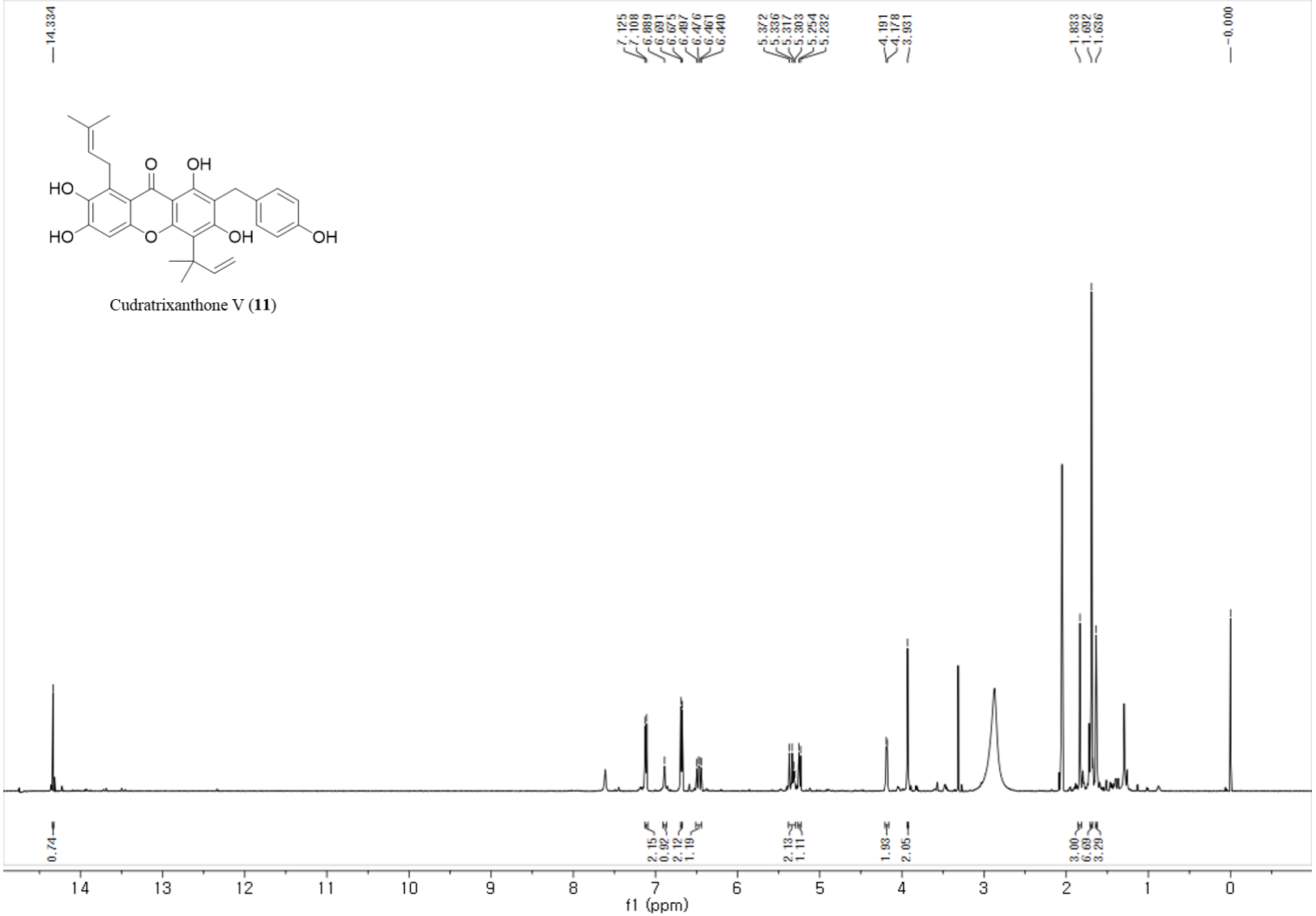
S30. HRESIMS spectrum of cudratrixanthone U (**10**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
167 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

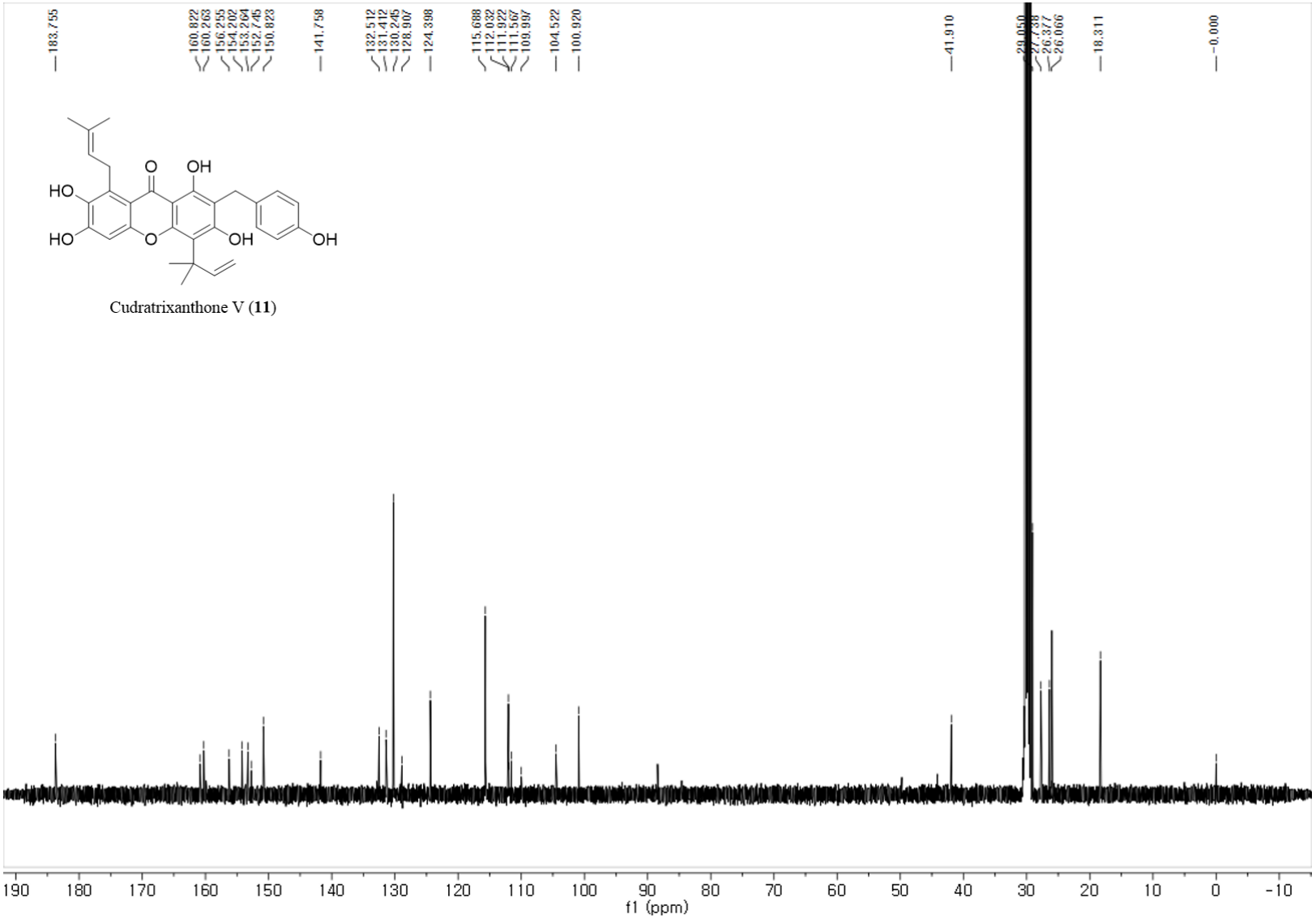
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
411.1459	411.1444	1.5	3.6	12.5	C23 H23 O7	5554159.5	23	23		7



S31. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone V (**11**) in acetone-d_6.



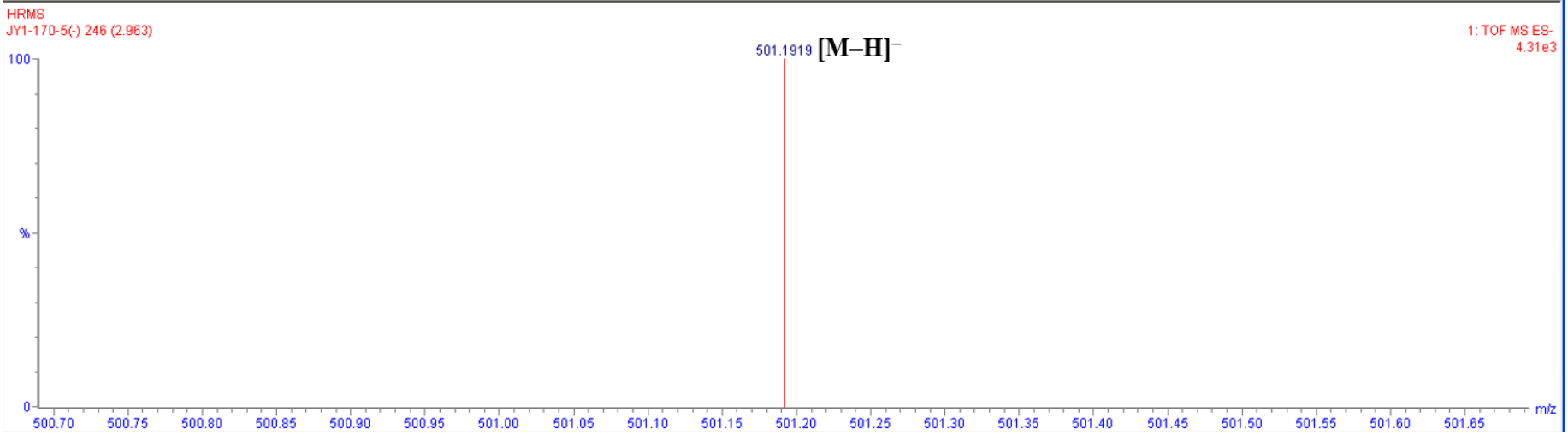
S32. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone V (**11**) in acetone-d_6.



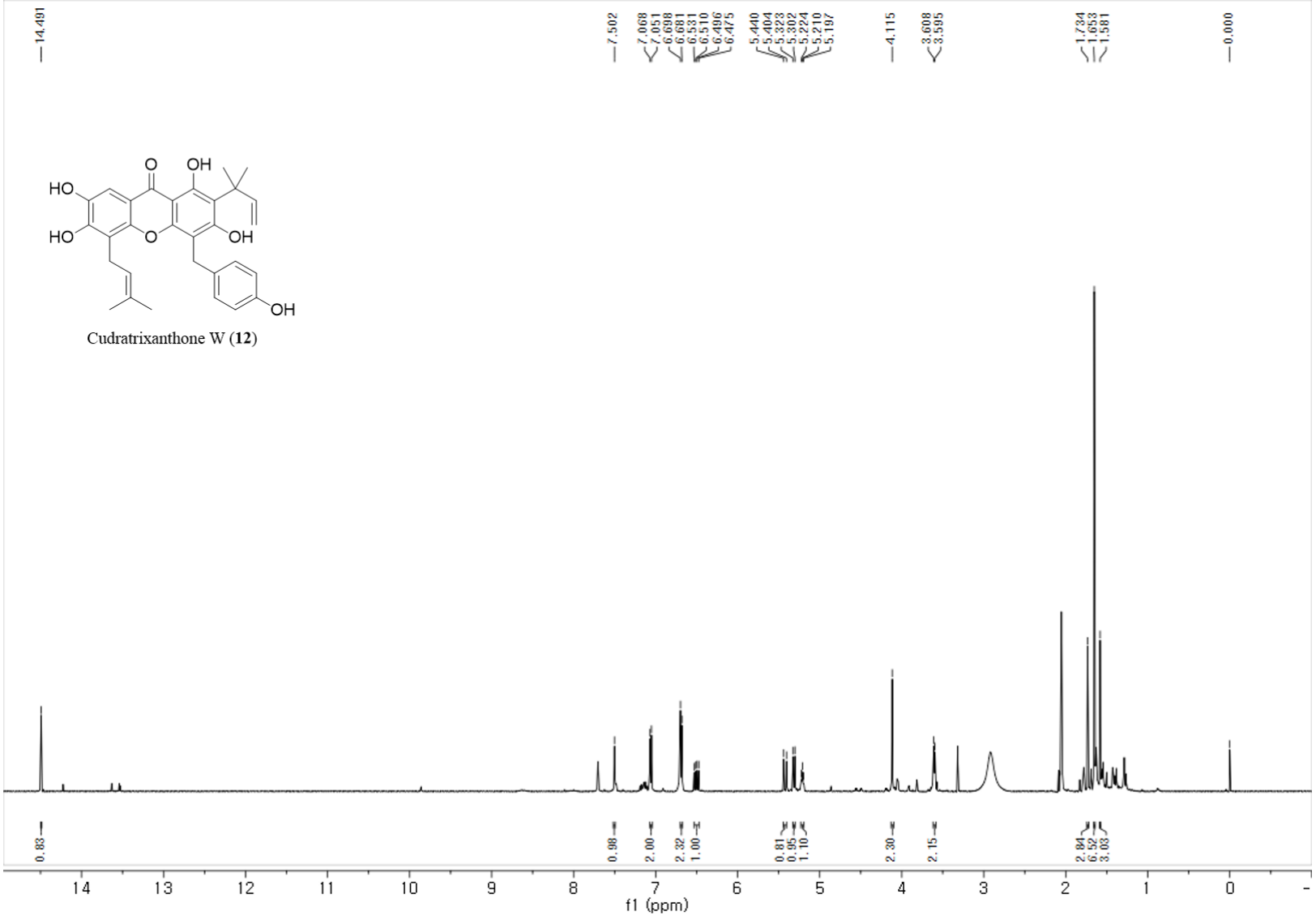
S33. HRESIMS spectrum of cudratrixanthone V (**11**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
212 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

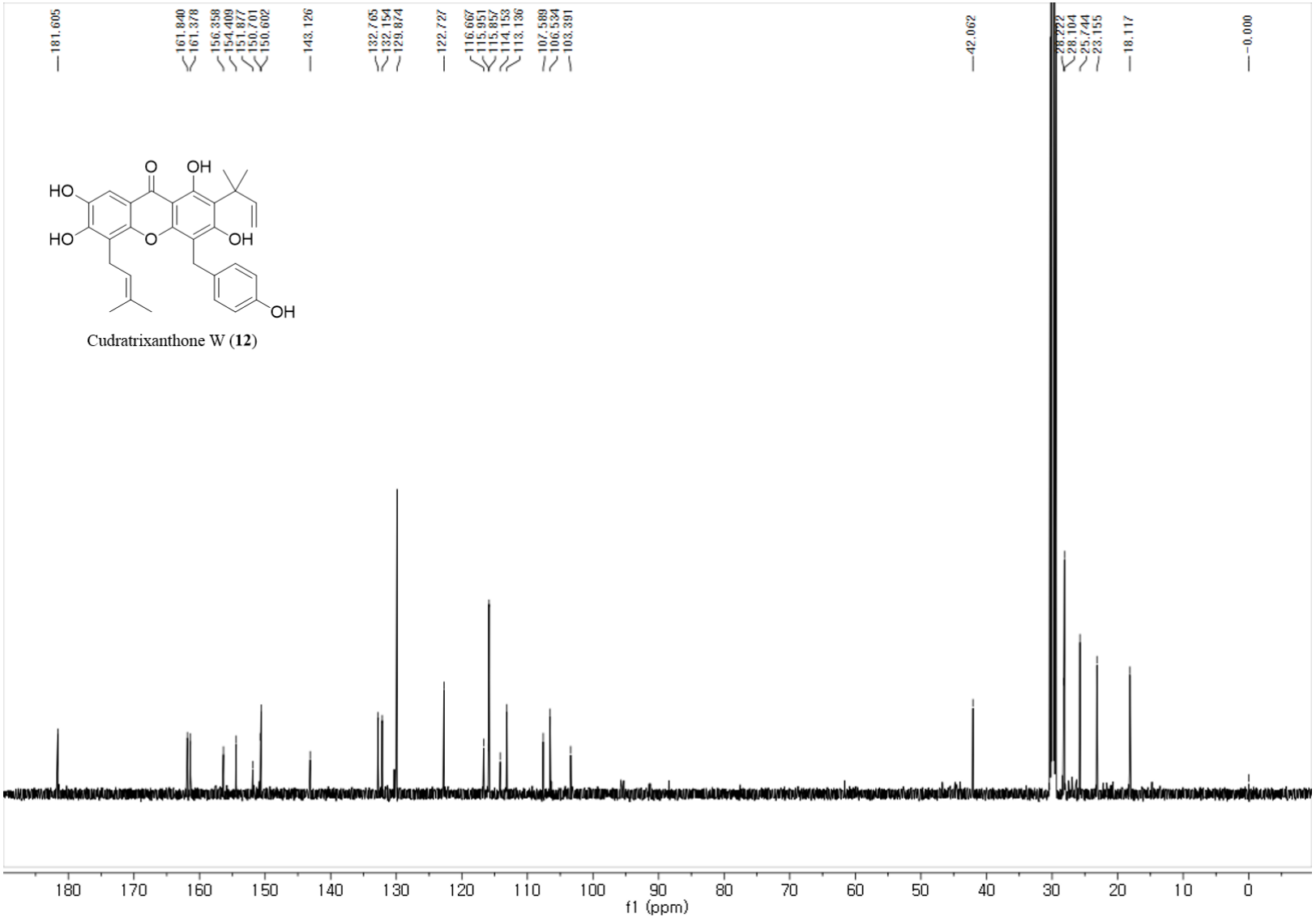
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
501.1919	501.1913	0.6	1.2	16.5	C30 H29 O7	5548170.5	30	29		7



S34. ^{1}H NMR spectrum (500 MHz) of cudratrixanthone W (**12**) in acetone-d_6.



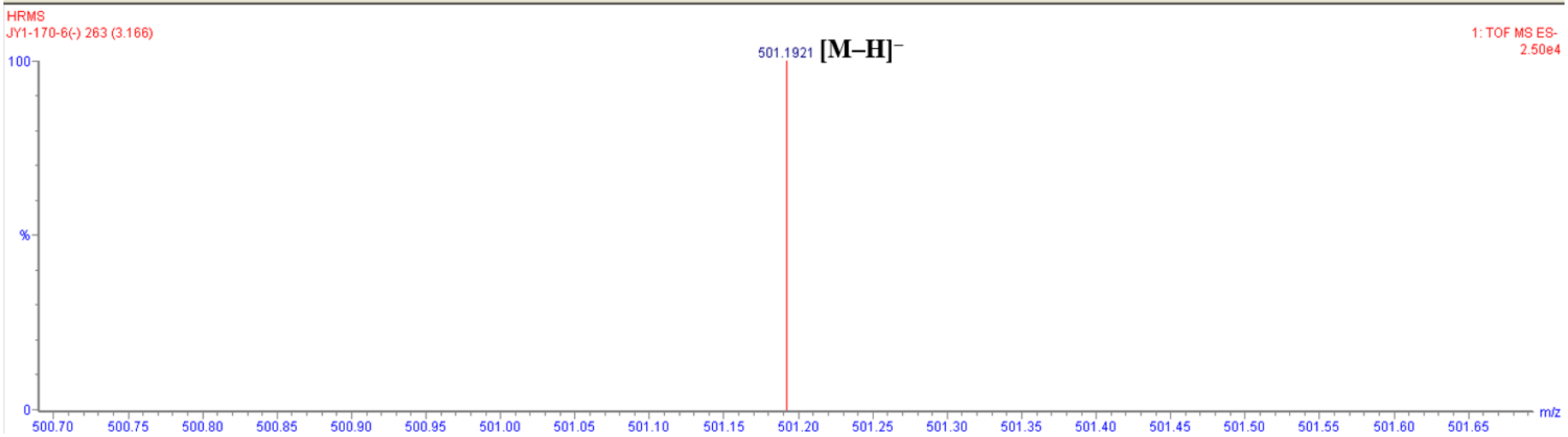
S35. ^{13}C NMR spectrum (125 MHz) of cudratrixanthone W (**12**) in acetone-d_6.



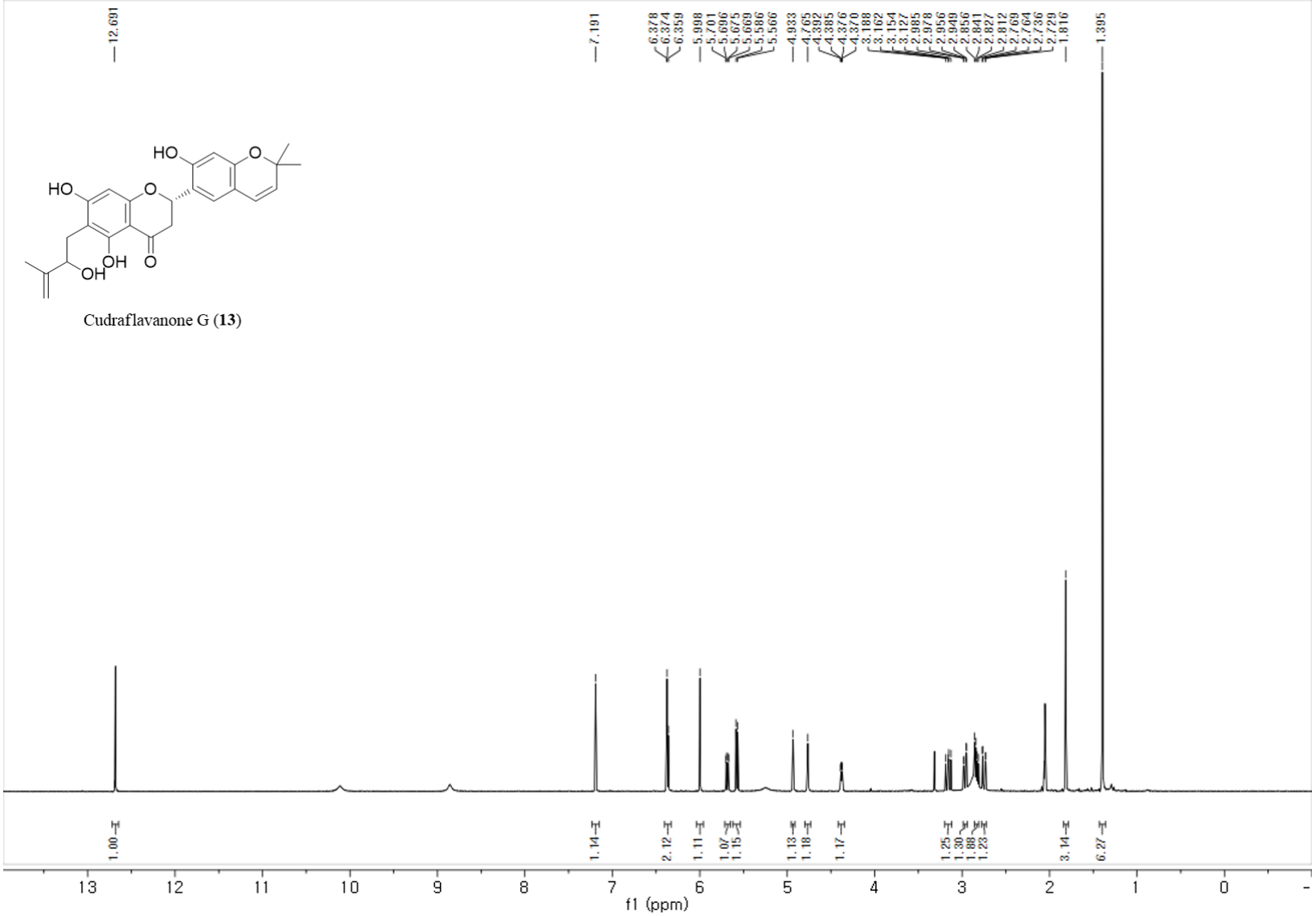
S36. HRESIMS spectrum of cudratrixanthone W (**12**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
212 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

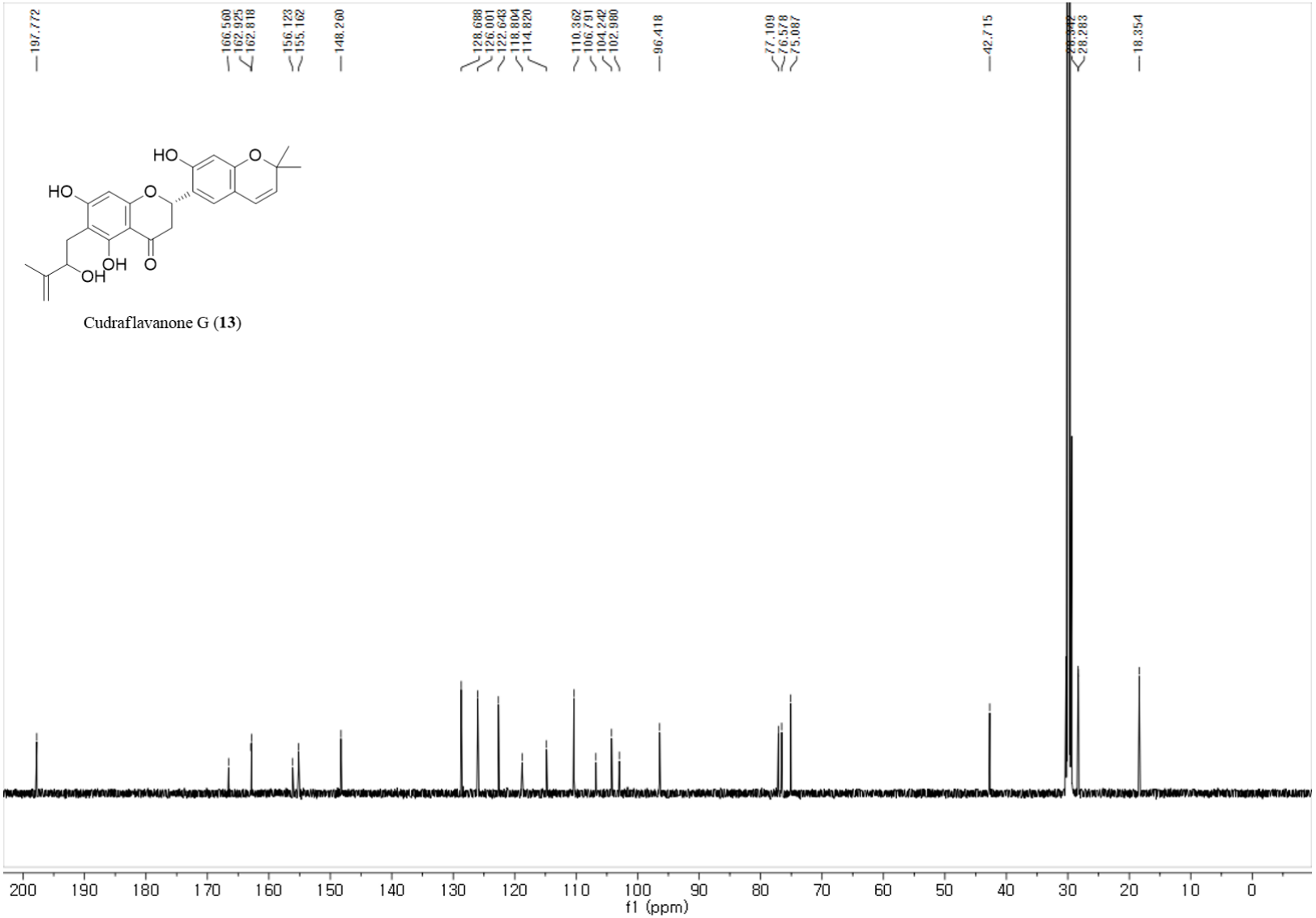
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
501.1921	501.1913	0.8	1.6	16.5	C30 H29 O7	5558518.0	30	29		7



S37. ^{1}H NMR spectrum (500 MHz) of cudraflavanone G (**13**) in acetone-d_6.



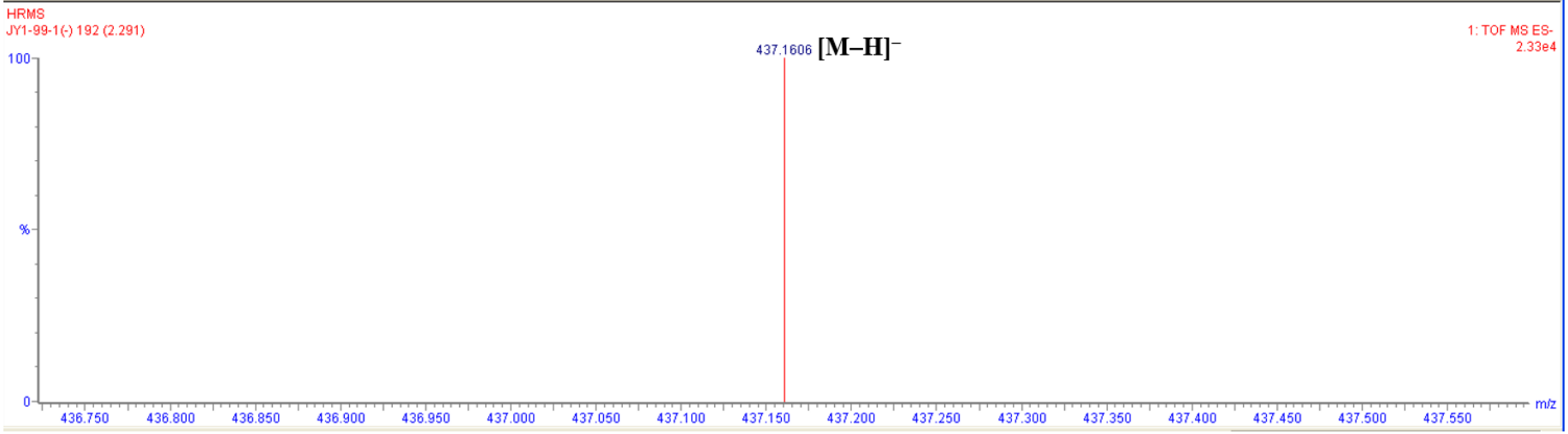
S38. ^{13}C NMR spectrum (125 MHz) of cudraflavanone G (**13**) in acetone-d_6.



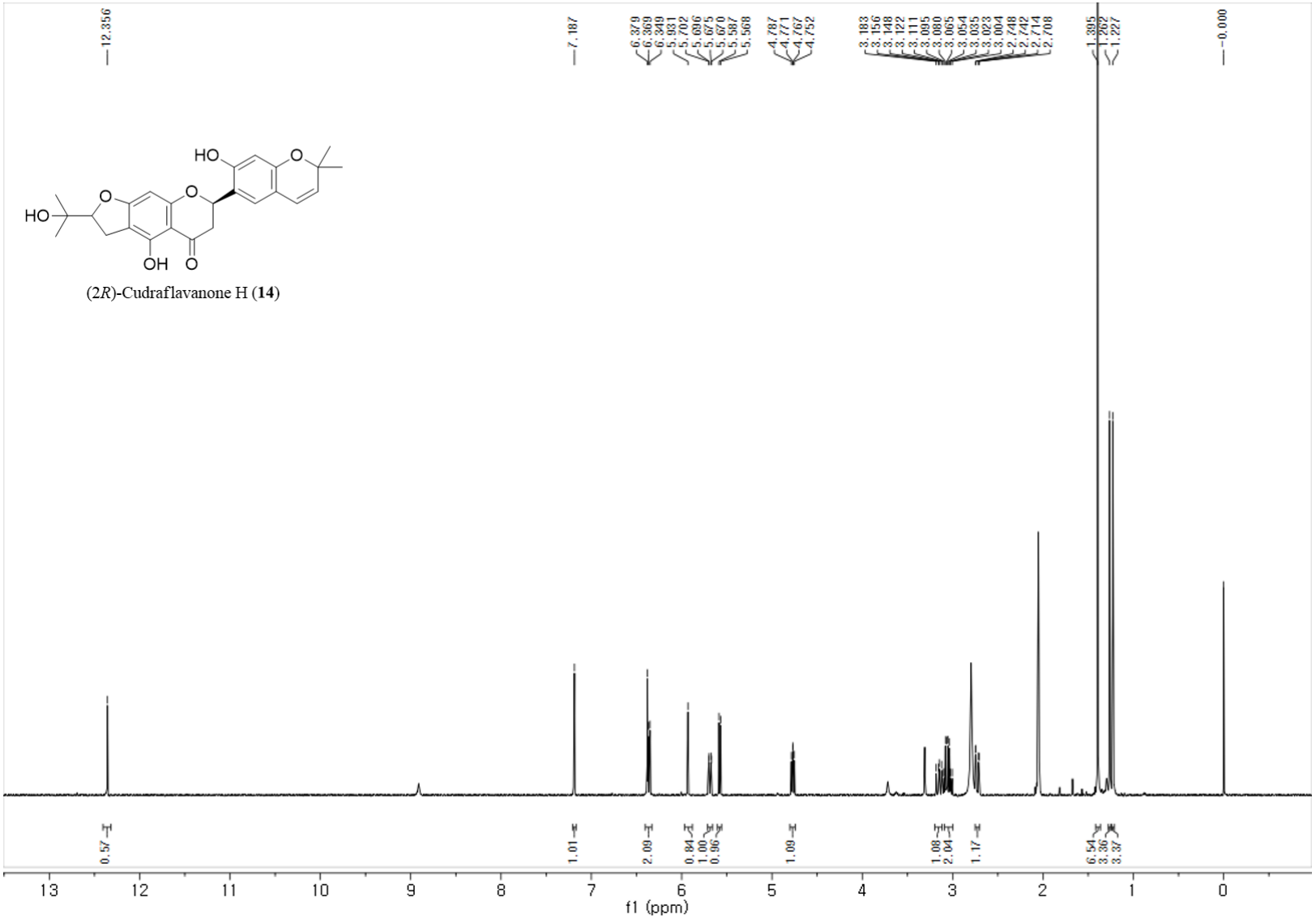
S39. HRESIMS spectrum of cudraflavanone G (**13**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
180 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

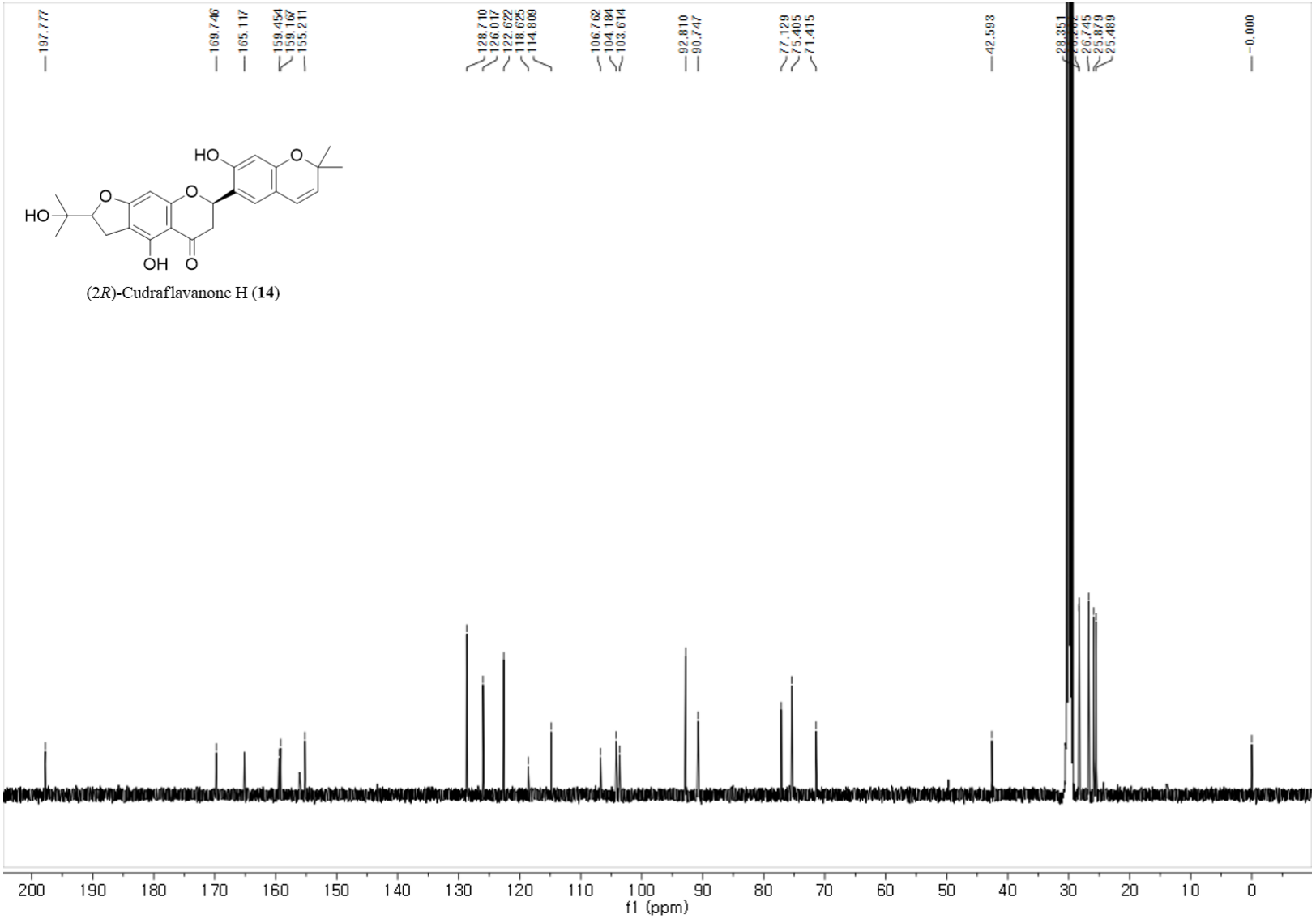
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
437.1606	437.1600	0.6	1.4	13.5	C25 H25 O7	5557670.5	25	25		7



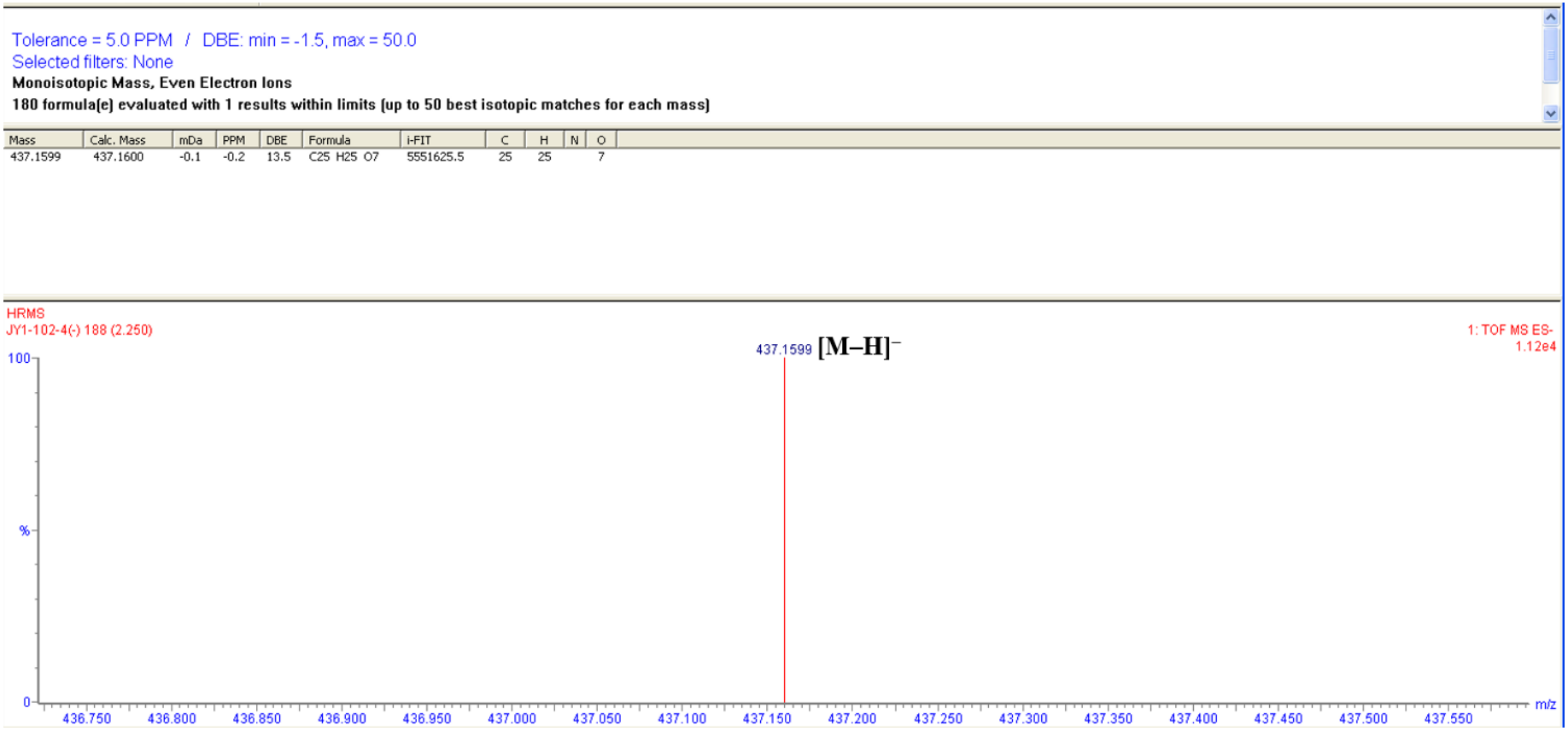
S40. ^{1}H NMR spectrum (500 MHz) of (2*R*)-cudraflavanone H (**14**) in acetone-d_6.



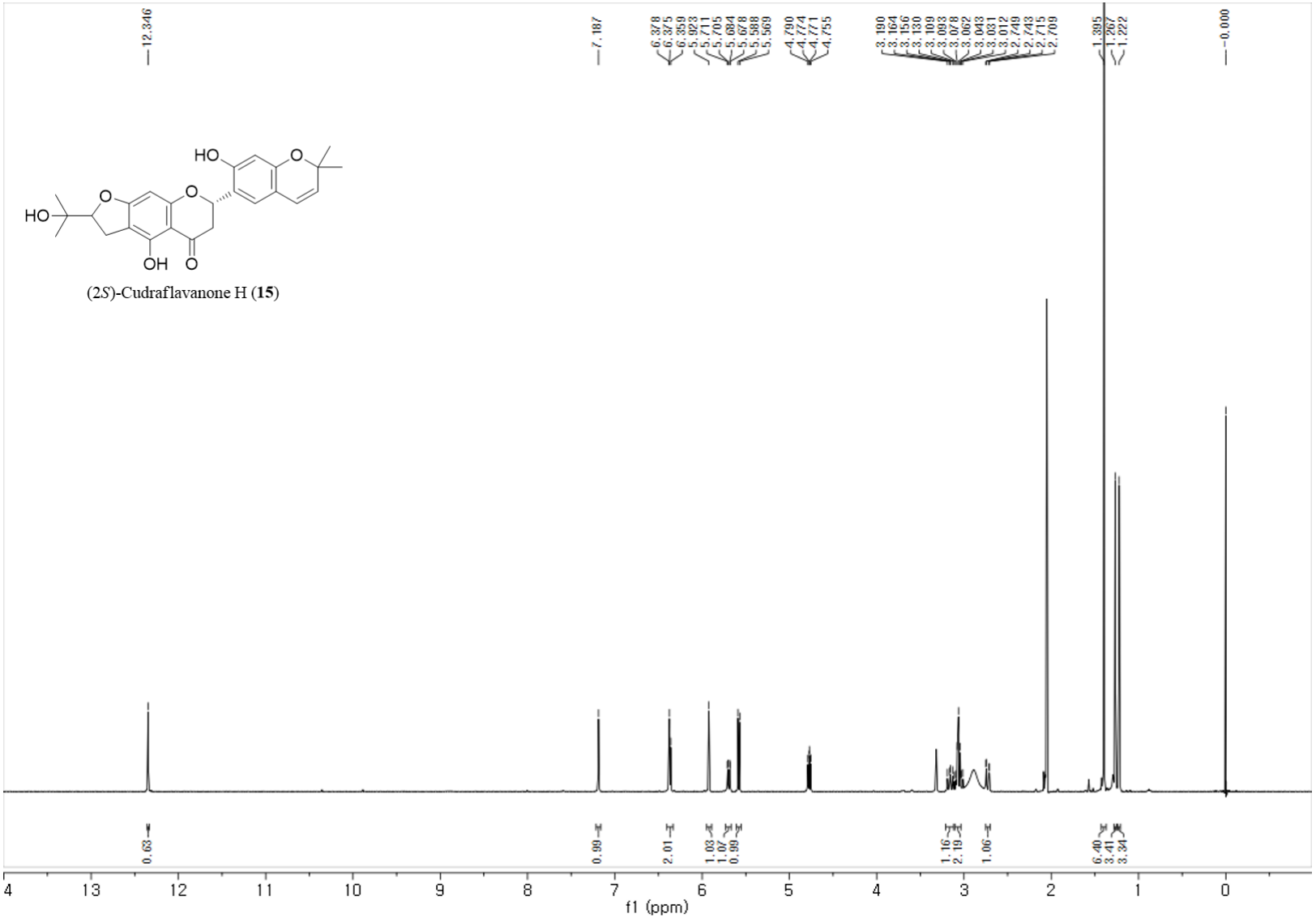
S41. ^{13}C NMR spectrum (125 MHz) of (2*R*)-cudraflavanone H (**14**) in acetone-d_6.



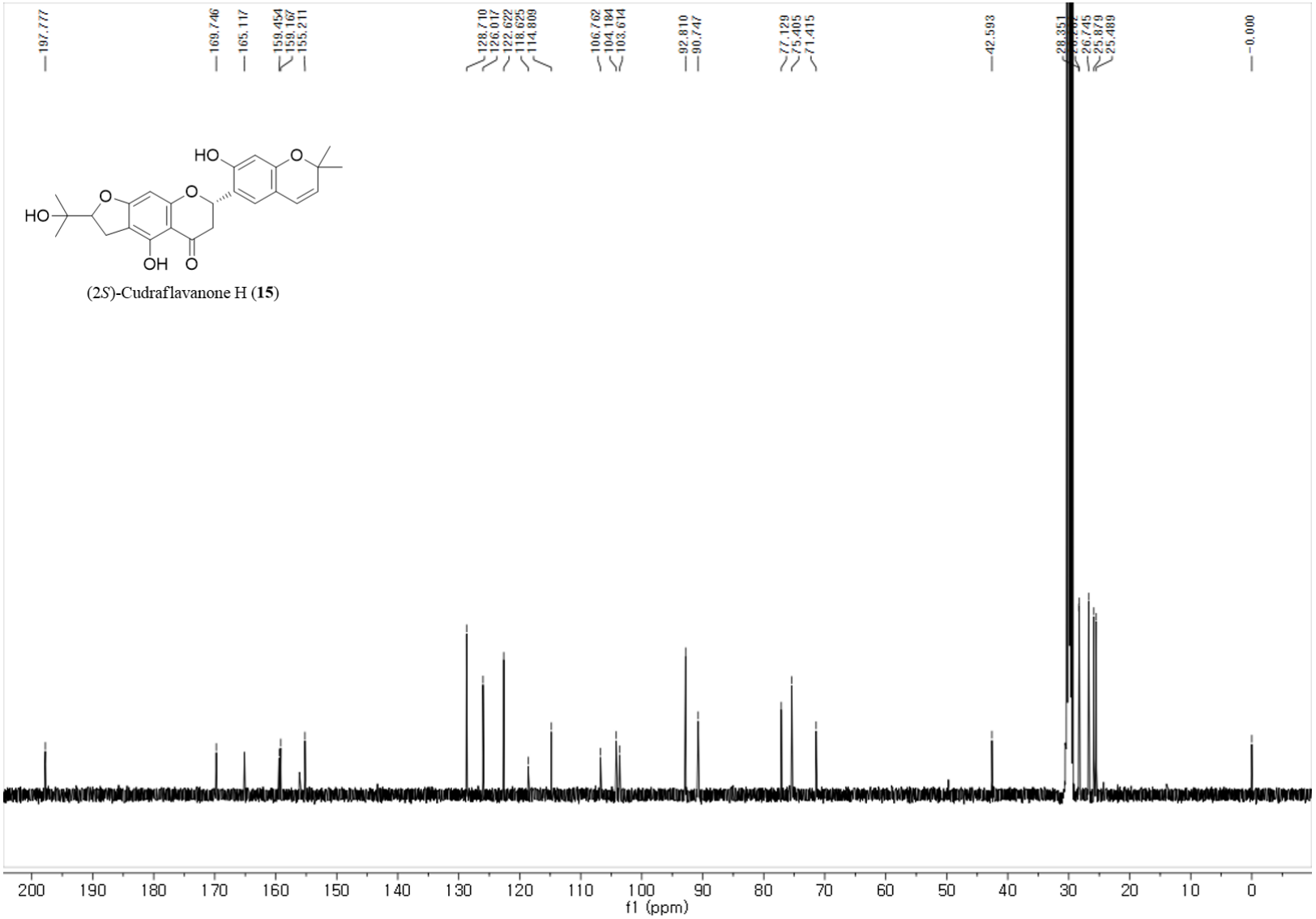
S42. HRESIMS spectrum of (2*R*)-cudraflavanone H (**14**).



S43. ^{1}H NMR spectrum (500 MHz) of (2*S*)-cudraflavanone H (**15**) in acetone-d_6.



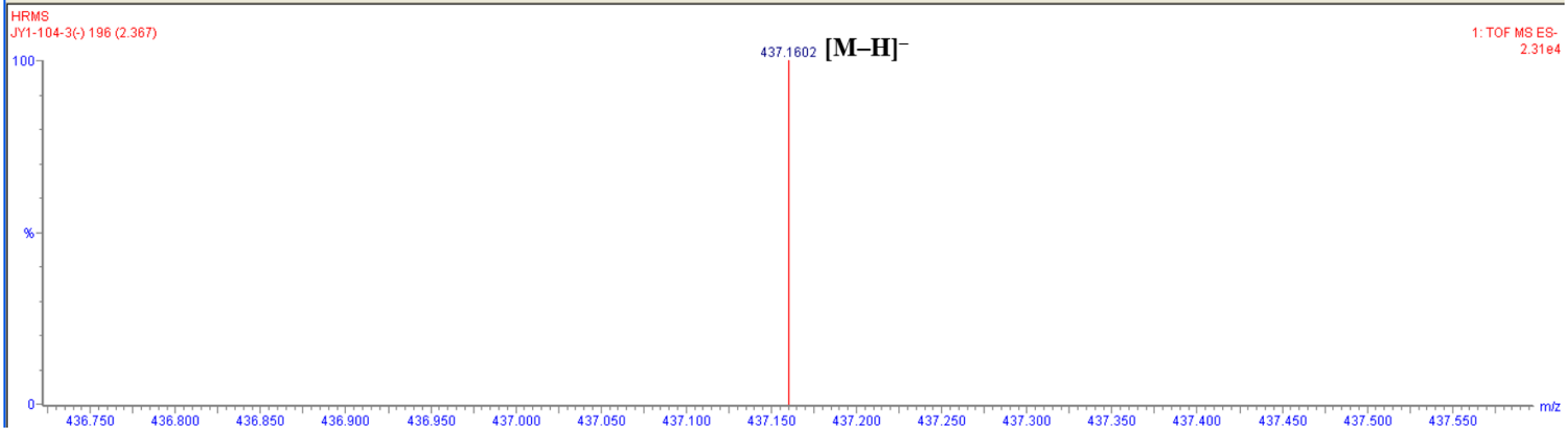
S44. ^{13}C NMR spectrum (125 MHz) of (2*S*)-cudraflavanone H (**15**) in acetone-d_6.



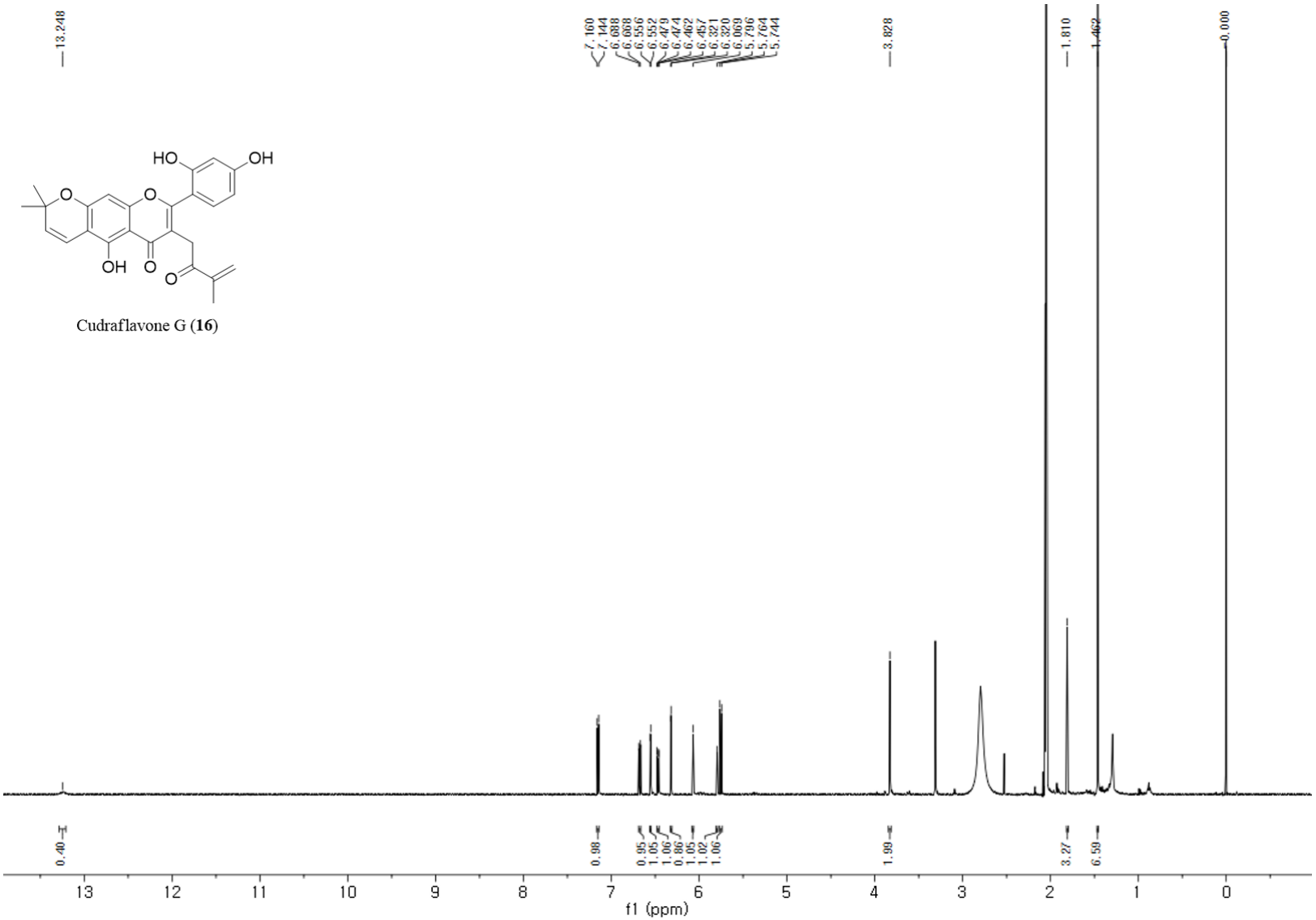
S45. HRESIMS spectrum of (2*S*)-cudraflavanone H (**15**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
180 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

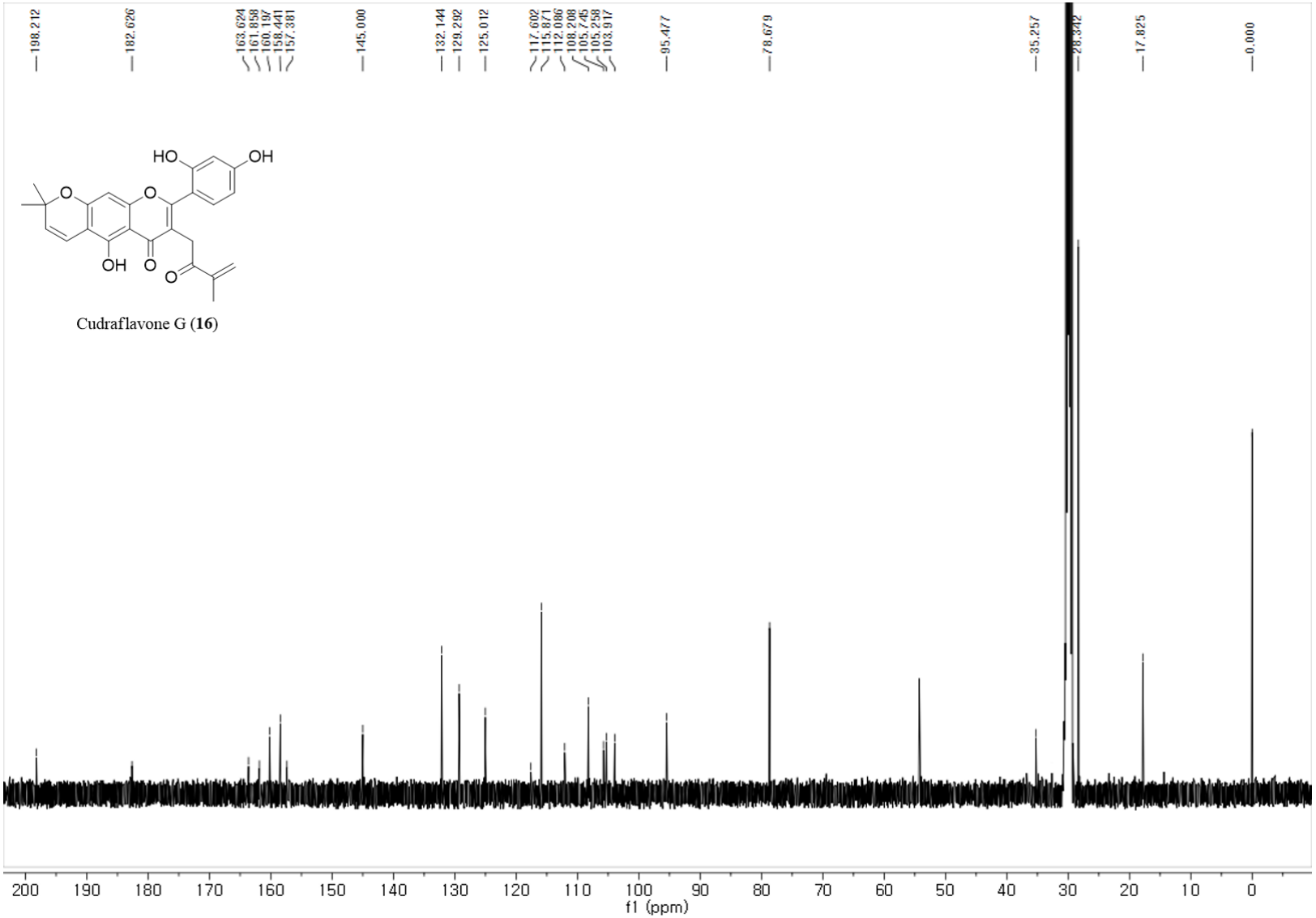
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
437.1602	437.1600	0.2	0.5	13.5	C25 H25 O7	5557570.5	25	25		7



S46. ^{1}H NMR spectrum (500 MHz) of cudraflavone G (**16**) in acetone-d_6.



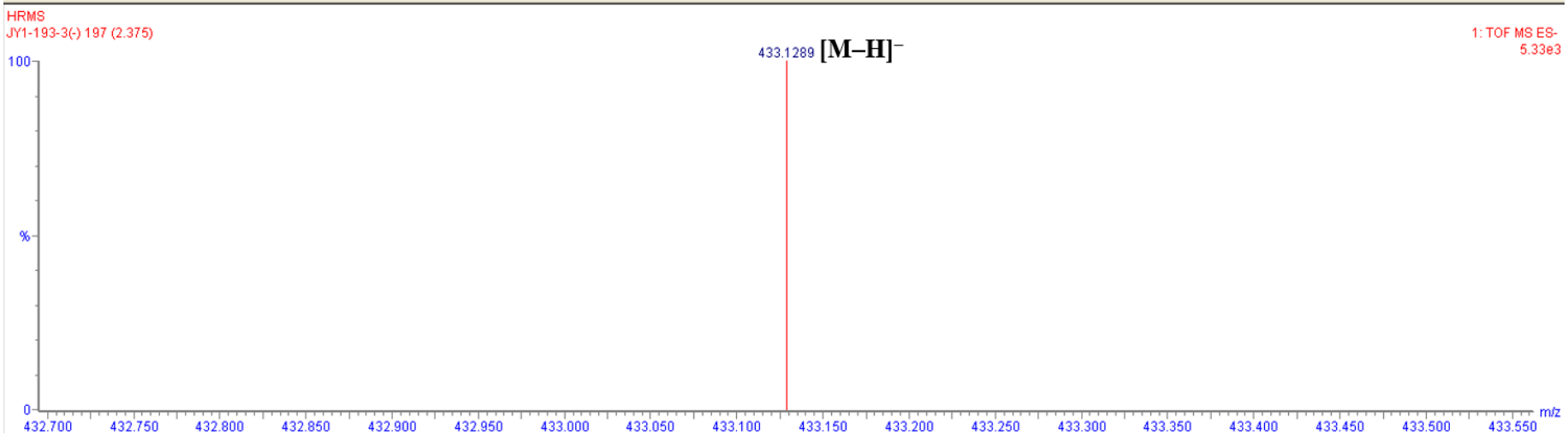
S47. ^{13}C NMR spectrum (125 MHz) of cudraflavone G (**16**) in acetone-d_6.



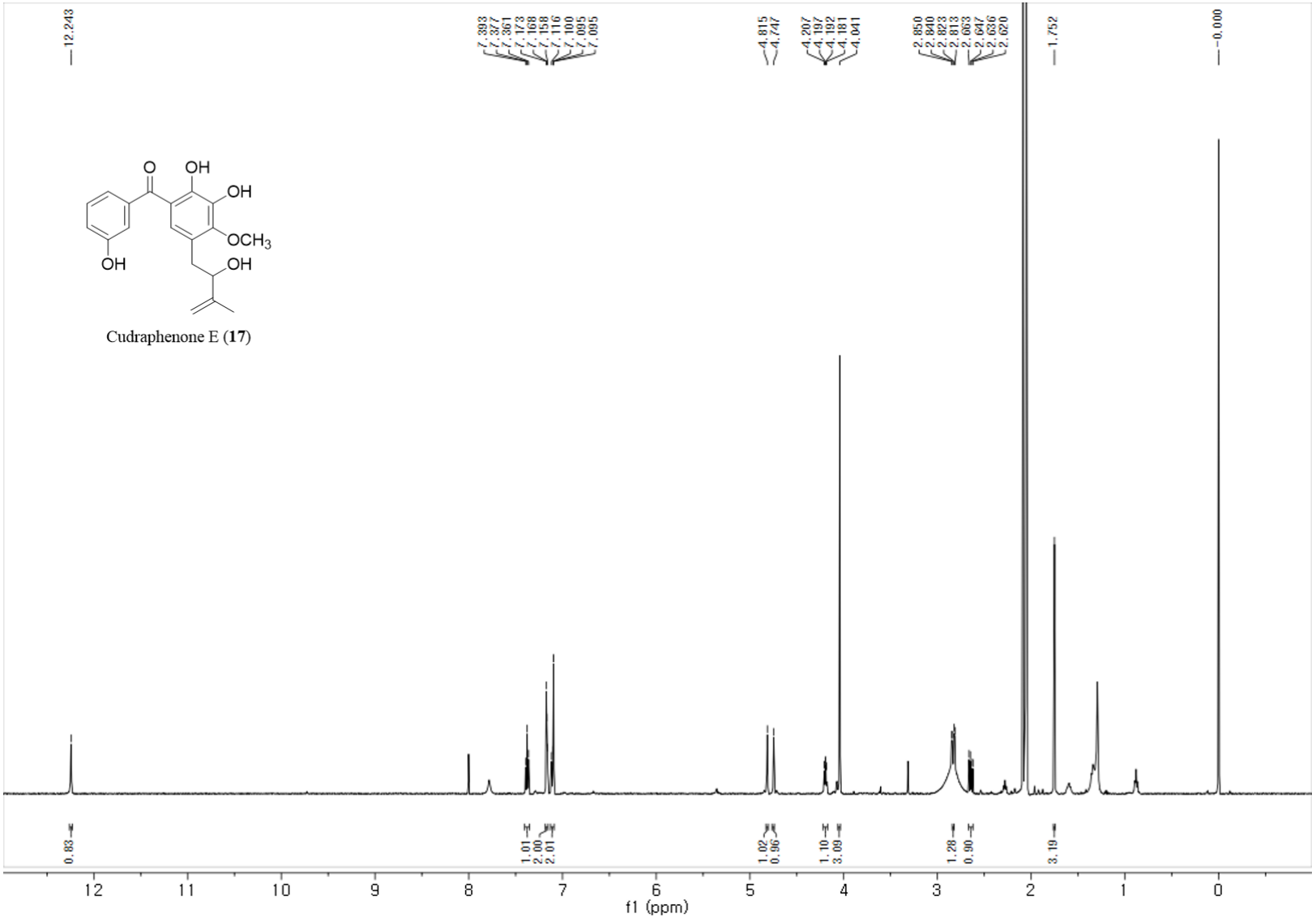
S48. HRESIMS spectrum of cudraflavone G (**16**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
179 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

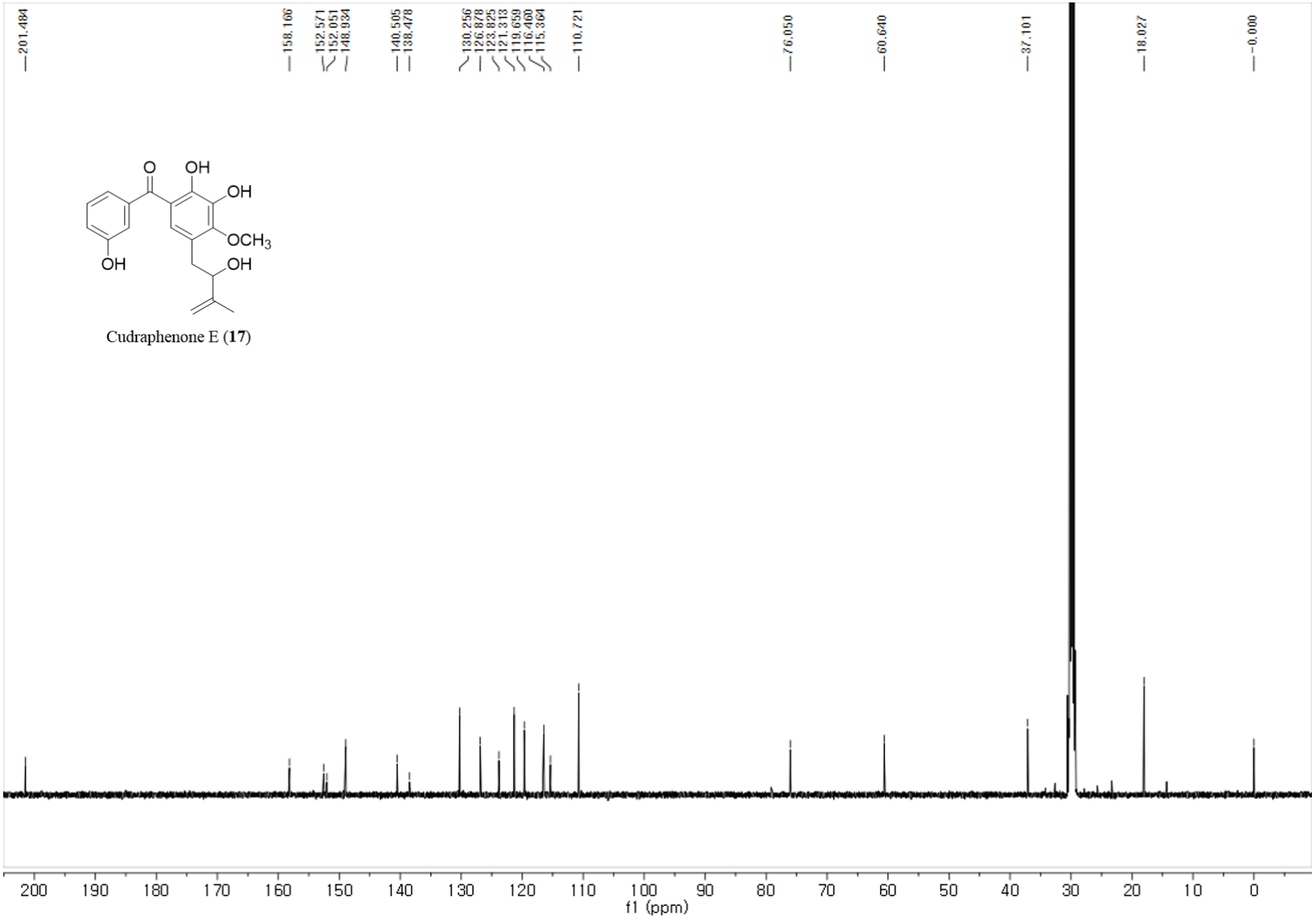
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
433.1289	433.1287	0.2	0.5	15.5	C25 H21 O7	5548683.0	25	21		7



S49. ^{1}H NMR spectrum (500 MHz) of cudraphenone E (**17**) in acetone-d_6.



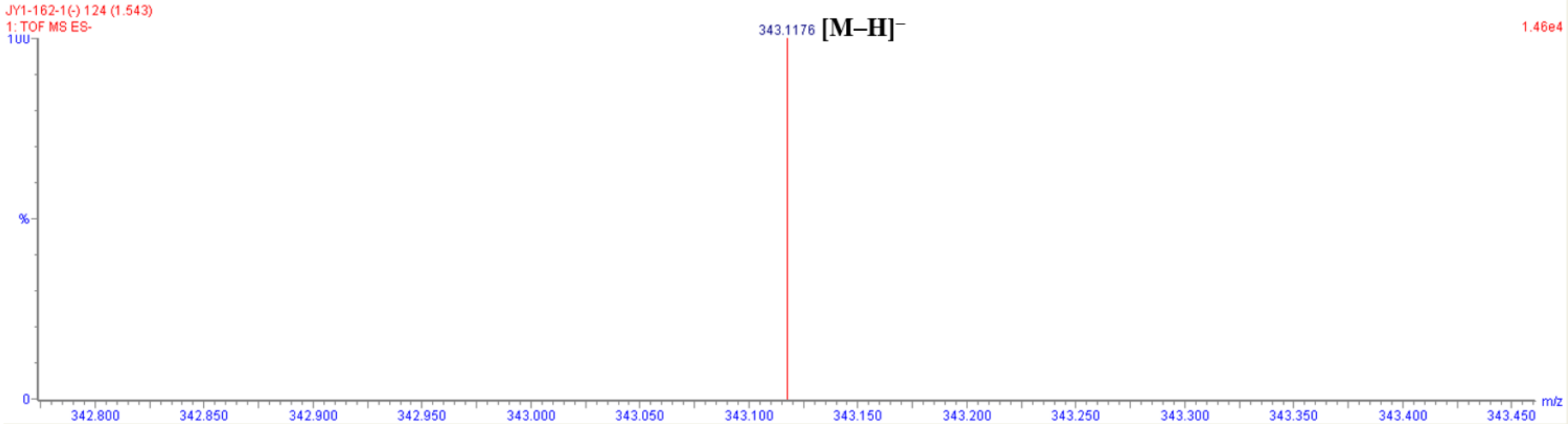
S50. ^{13}C NMR spectrum (125 MHz) of cudraphenone E (**17**) in acetone-d_6.



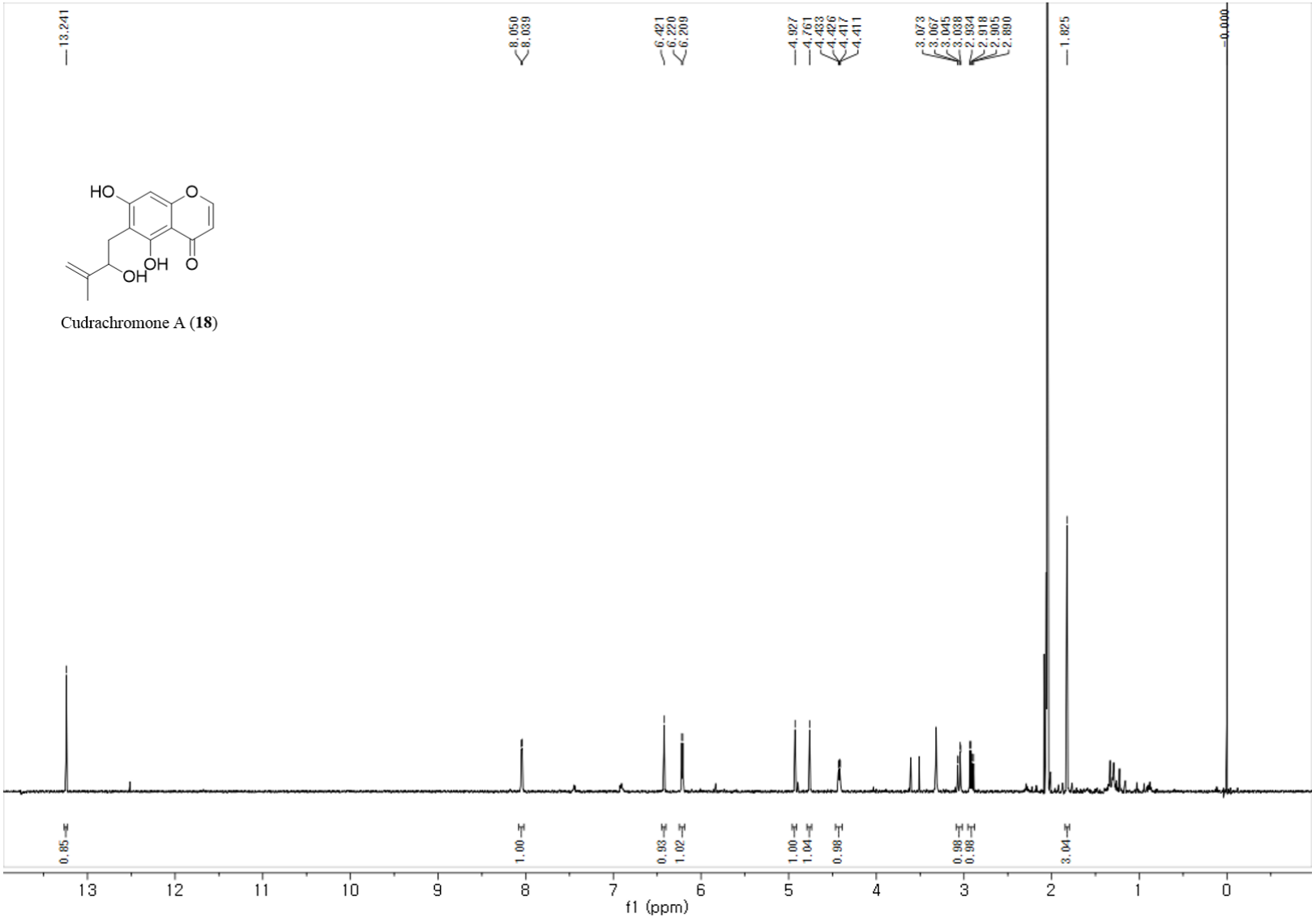
S51. HRESIMS spectrum of cudraphenone E (**17**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
251 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

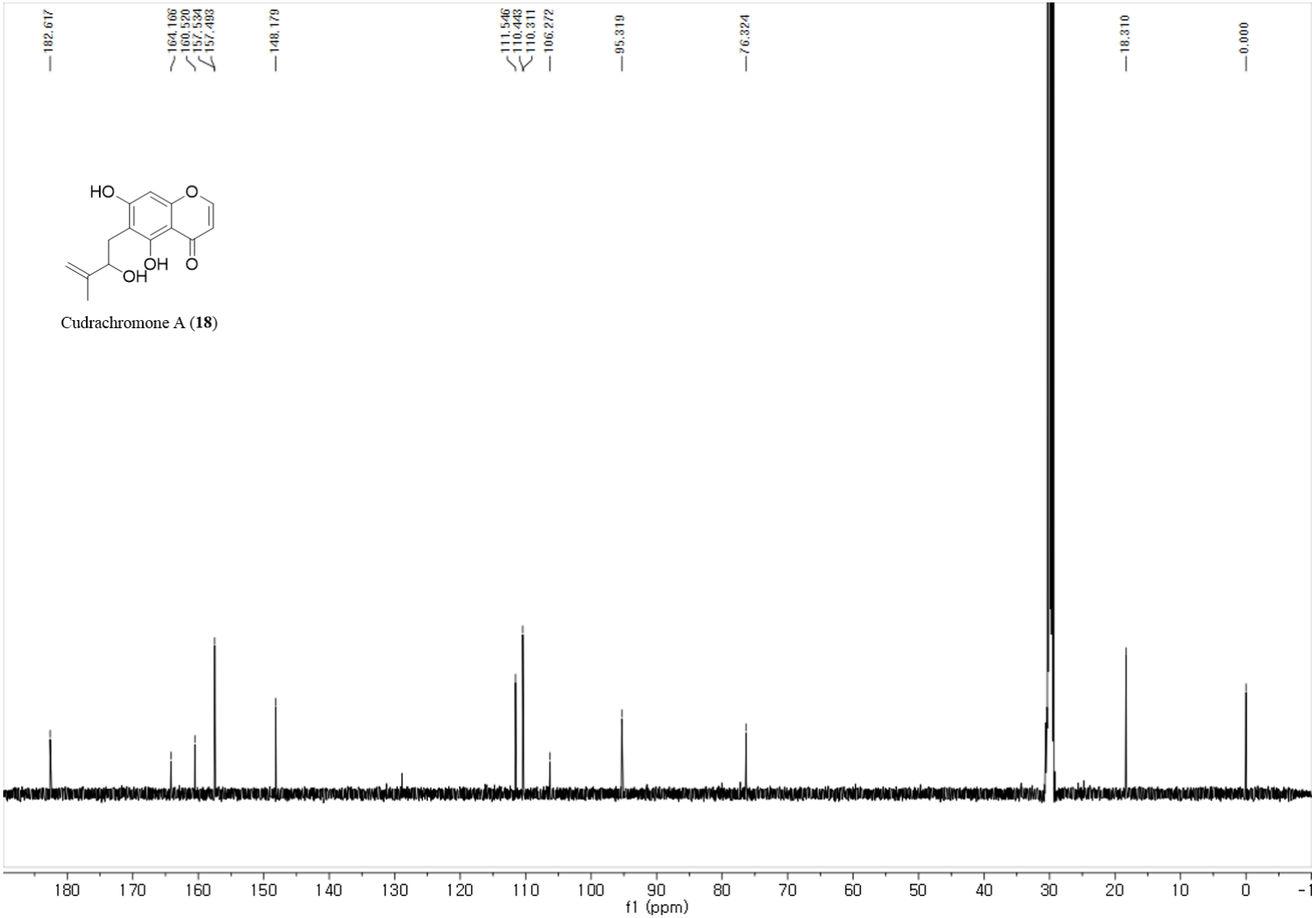
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
343.1176	343.1182	-0.6	-1.7	10.5	C19 H19 O6	5553284.5	19	19		6



S52. ^{1}H NMR spectrum (500 MHz) of cudrachromone A (**18**) in acetone-d_6.



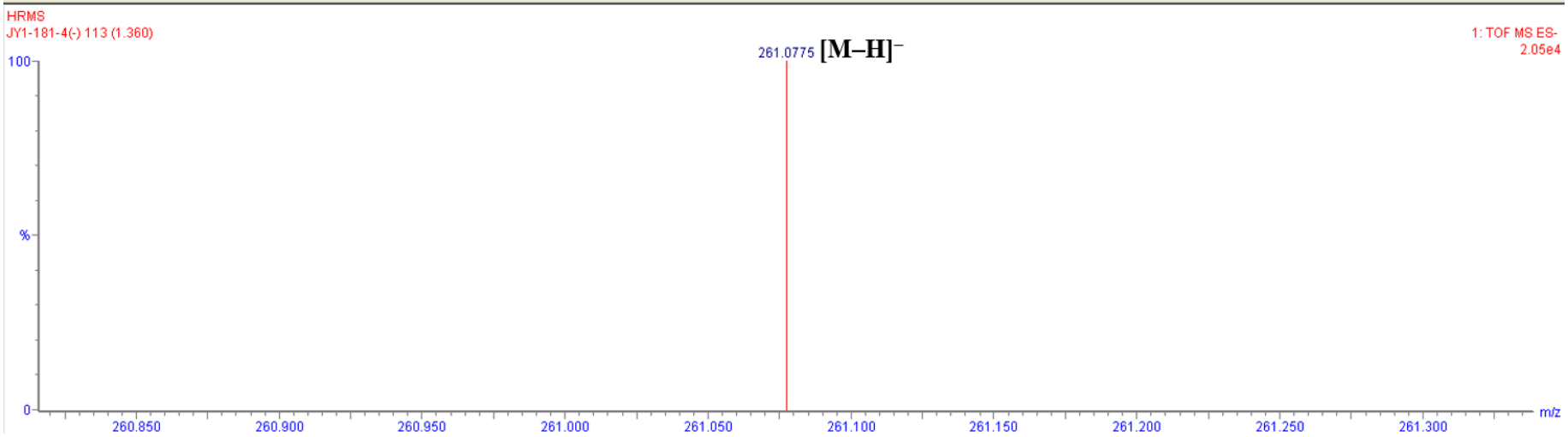
S53. ^{13}C NMR spectrum (125 MHz) of cudrachromone A (**18**) in acetone-d_6.



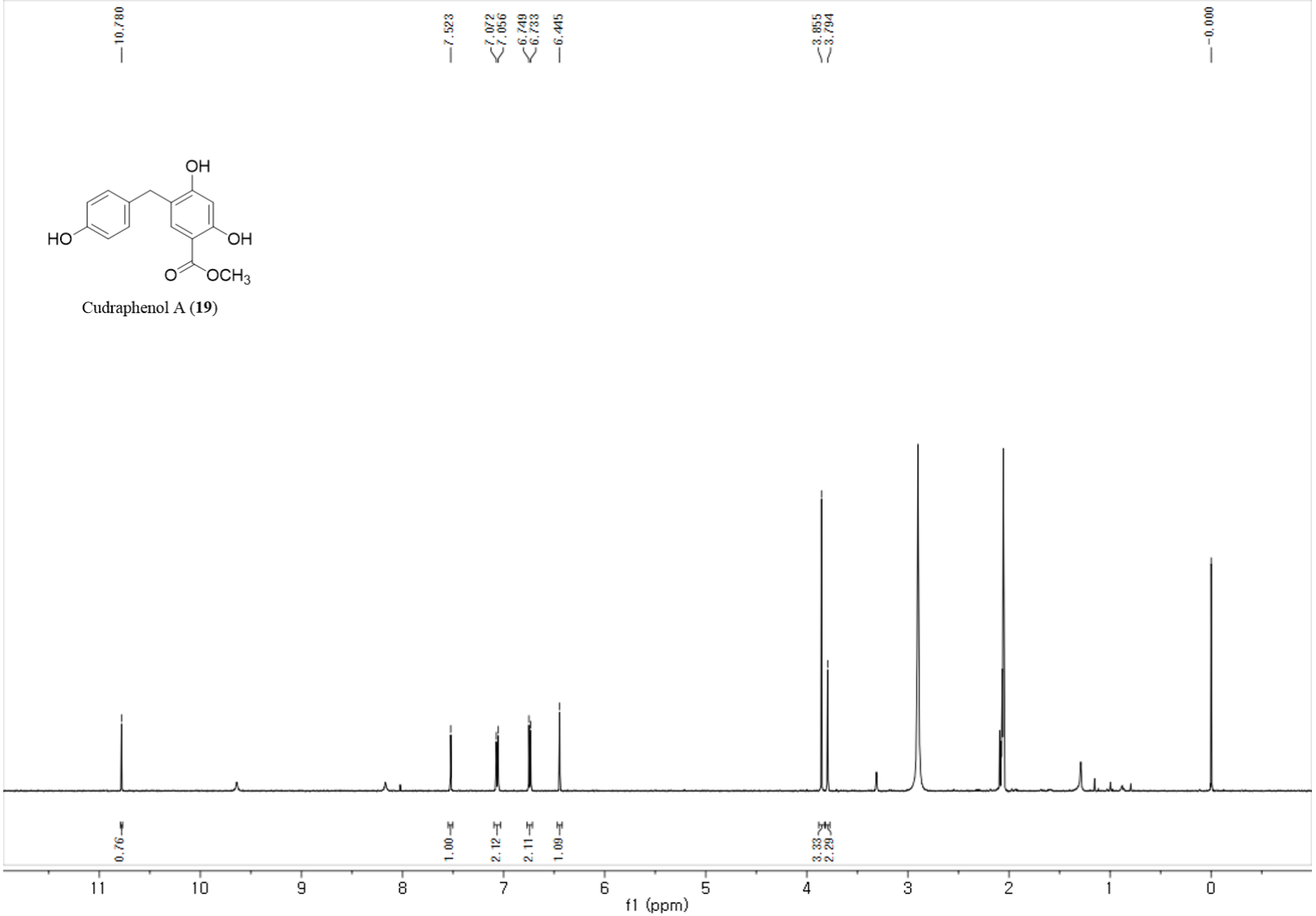
S54. HRESIMS spectrum of cudrachromone A (**18**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
86 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

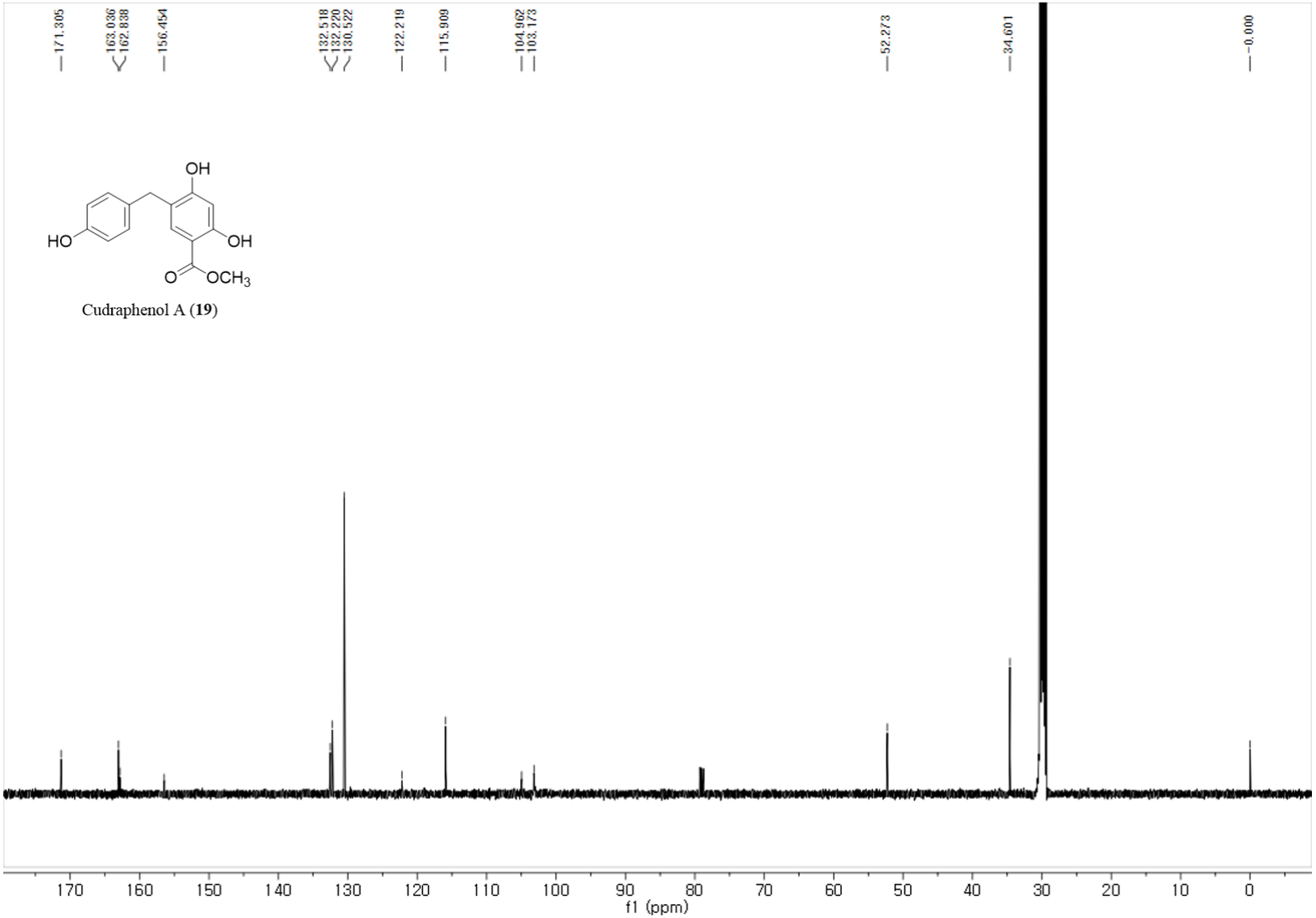
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O
261.0775	261.0763	1.2	4.6	8.5	C14 H13 O5	5556235.0	14	13		5



S55. ^{1}H NMR spectrum (500 MHz) of cudraphenol A (**19**) in acetone-d_6.



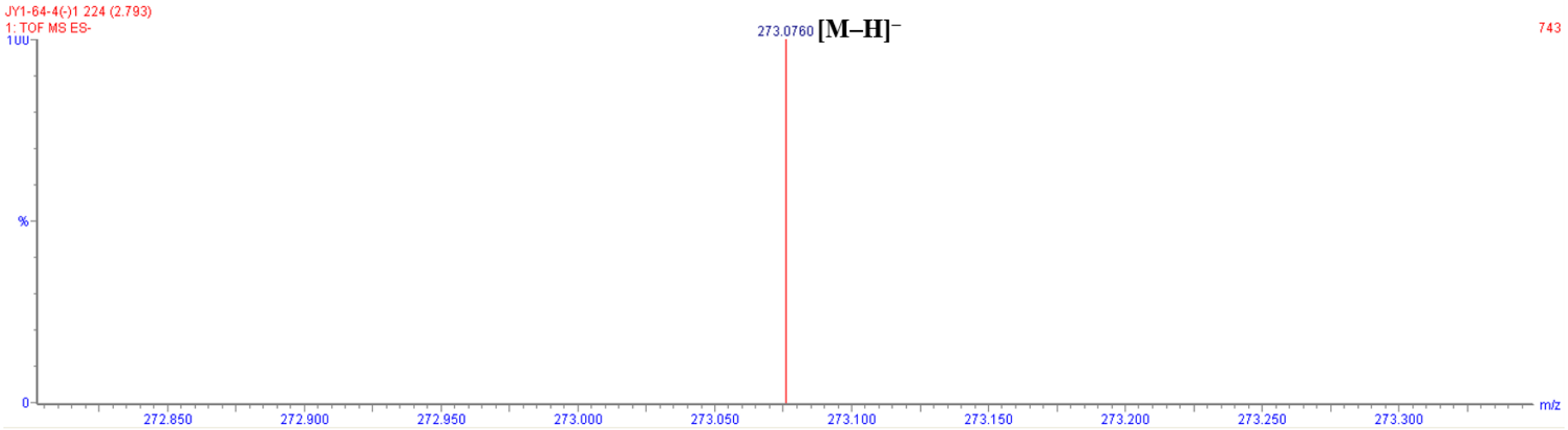
S56. ^{13}C NMR spectrum (125 MHz) of cudraphenol A (**19**) in acetone-d_6.



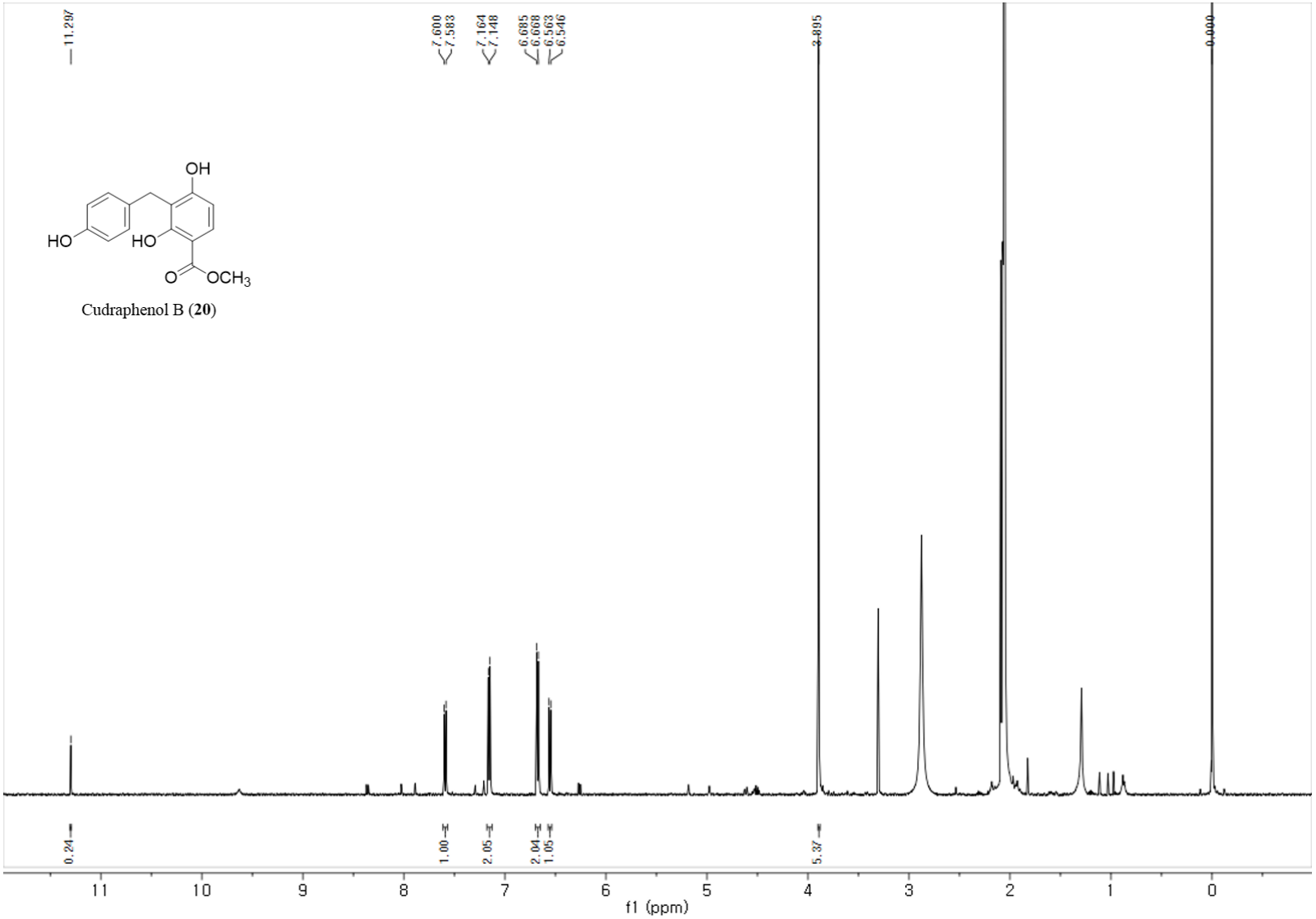
S57. HRESIMS spectrum of cudraphenol A (**19**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
46 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

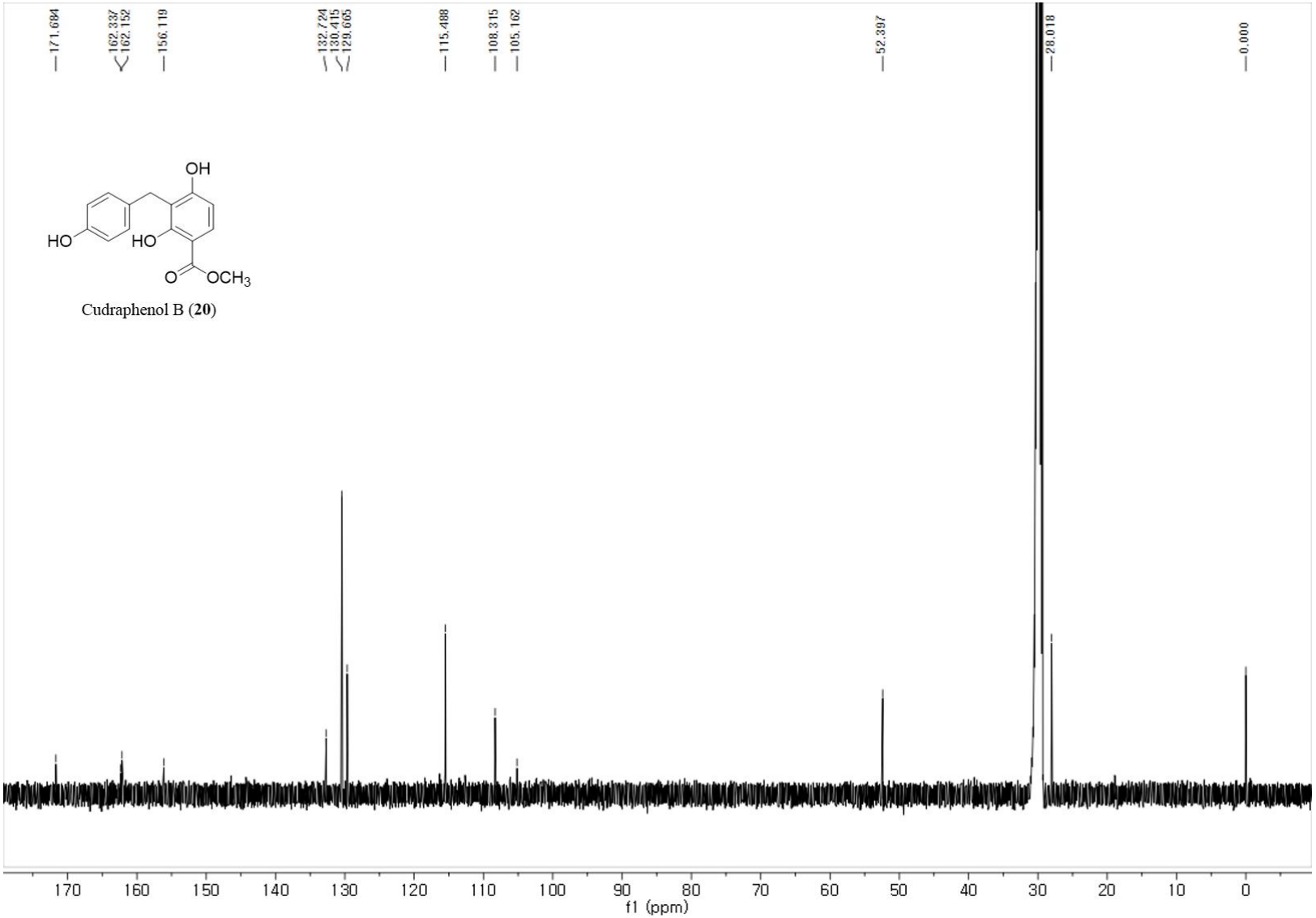
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
273.0760	273.0763	-0.3	-1.1	9.5	C15 H13 O5	5546374.5	15	13	5



S58. ^{1}H NMR spectrum (500 MHz) of cudraphenol B (**20**) in acetone-d_6.



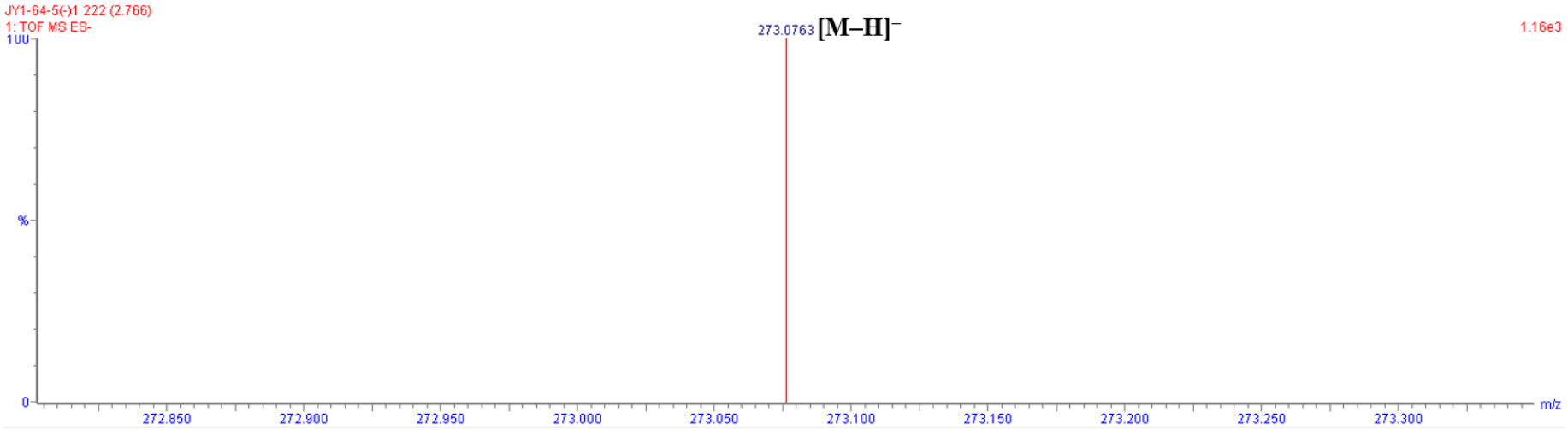
S59. ^{13}C NMR spectrum (125 MHz) of cudraphenol B (**20**) in acetone-d_6.



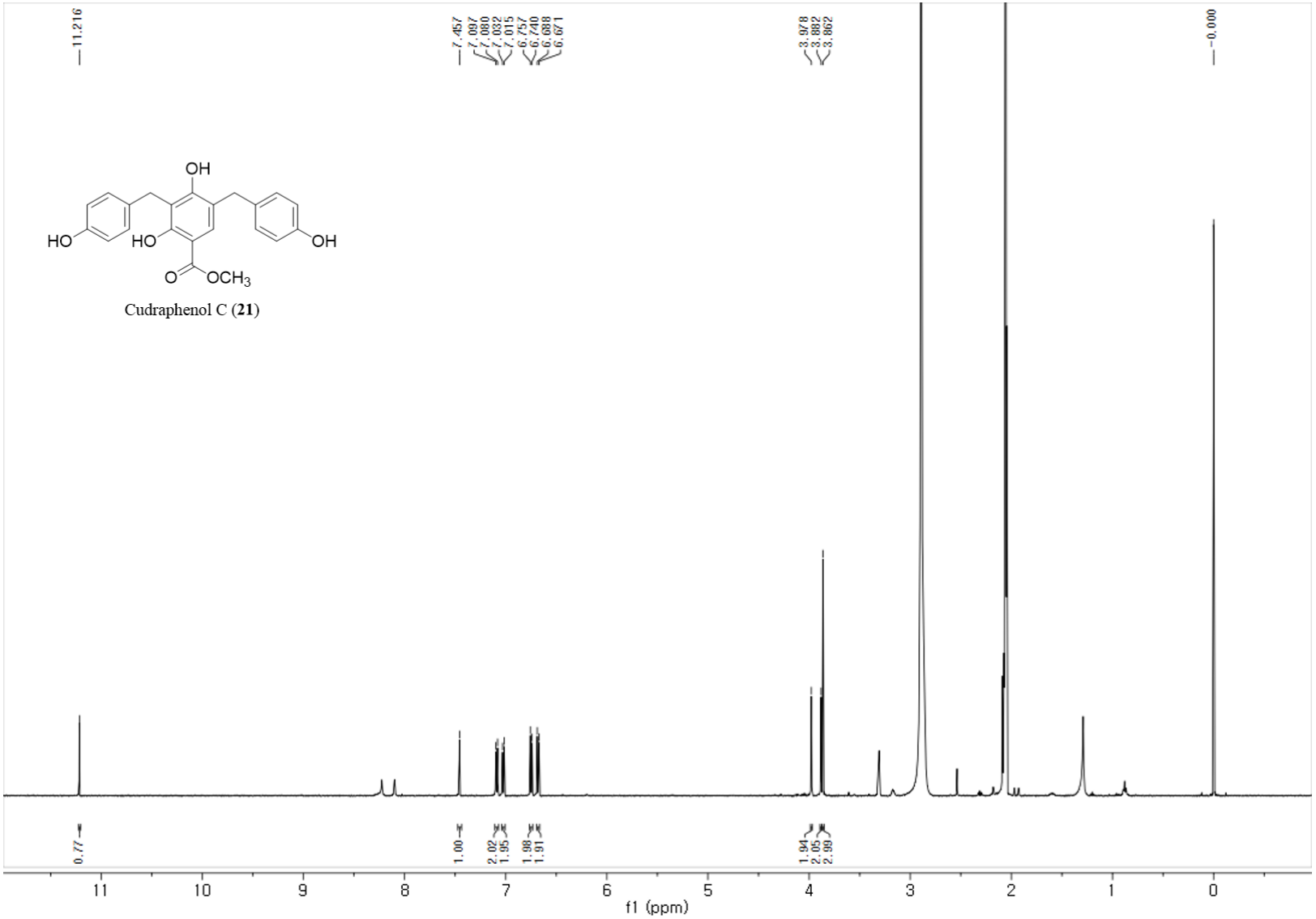
S60. HRESIMS spectrum of cudraphenol B (**20**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
46 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

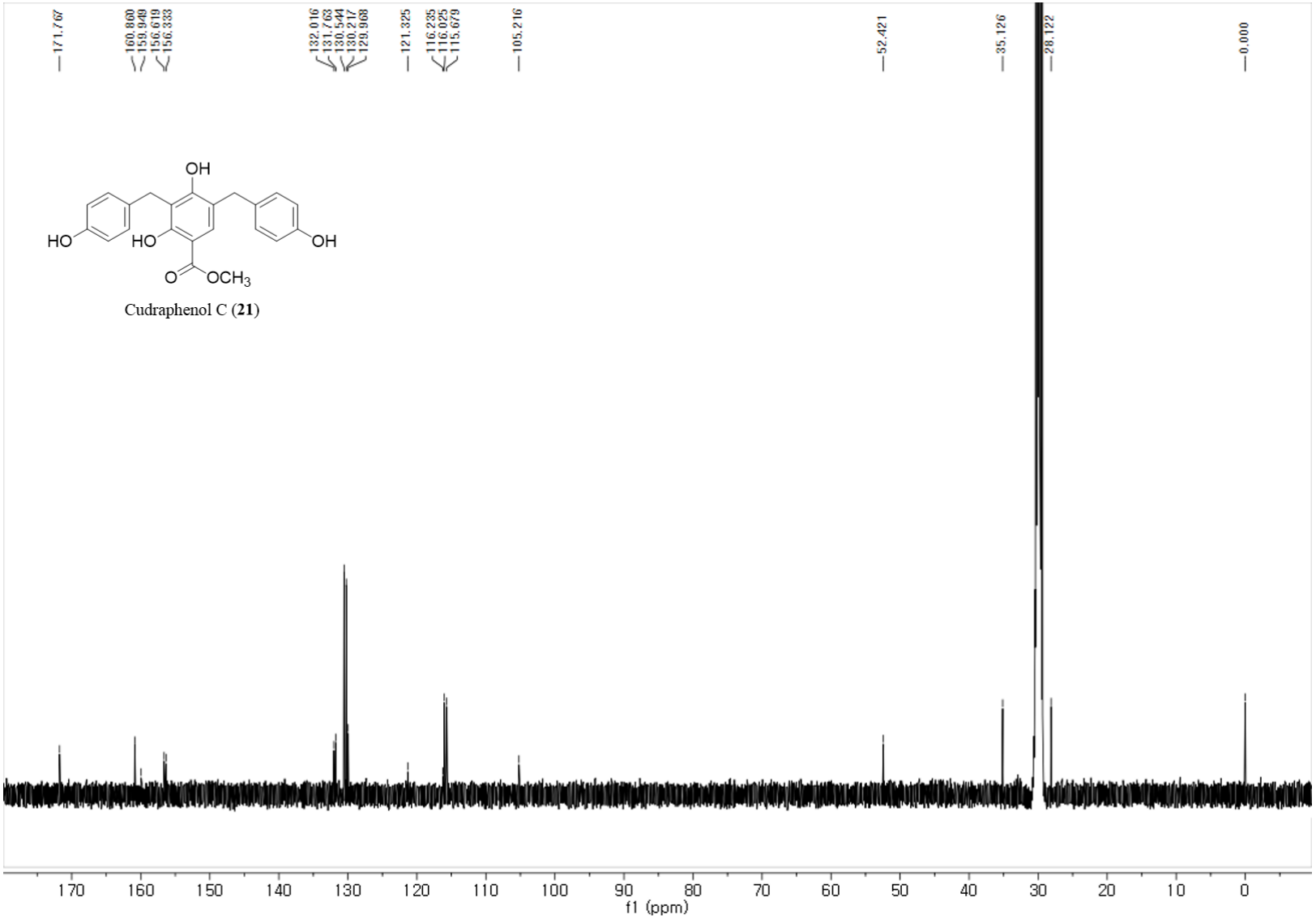
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	O
273.0763	273.0763	0.0	0.0	9.5	C15 H13 O5	5546583.0	15	13	5



S61. ^{1}H NMR spectrum (500 MHz) of cudraphenol C (**21**) in acetone-d_6.



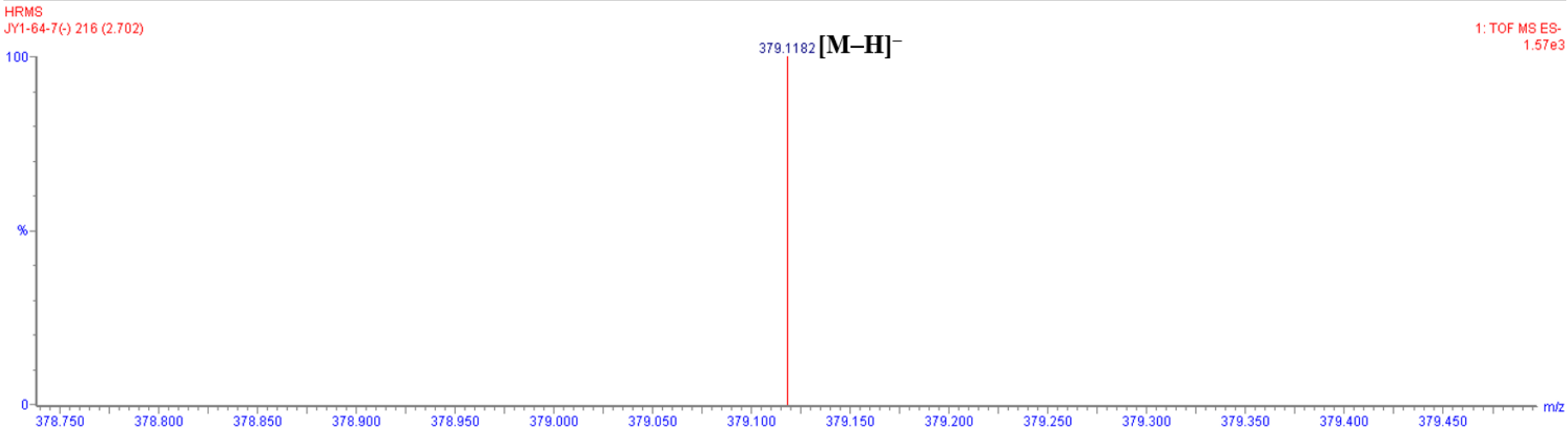
S62. ^{13}C NMR spectrum (125 MHz) of cudraphenol C (**21**) in acetone-d_6.



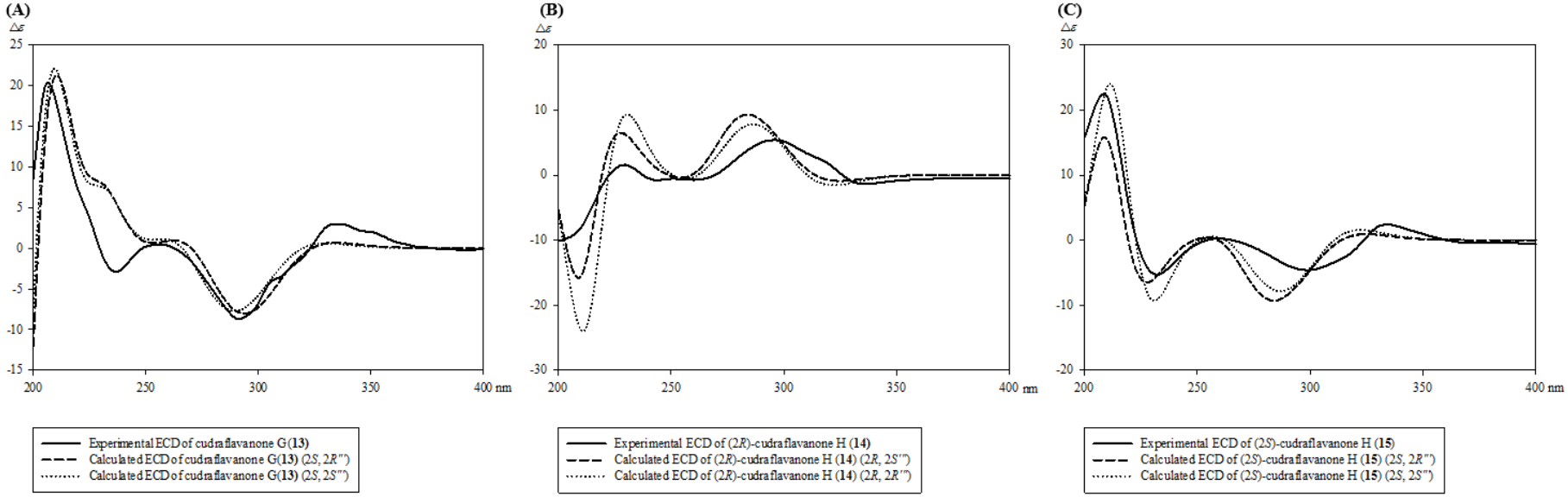
S63. HRESIMS spectrum of cudraphenol C (**21**).

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0
Selected filters: None
Monoisotopic Mass, Even Electron Ions
541 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

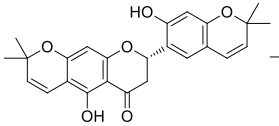
Mass	Calc. Mass	mDa	PPM	DBE	Formula	i-FIT	C	H	N	O	Na	P
379.1182	379.1182	0.0	0.0	13.5	C22 H19 O6	5546800.0	22	19		6		



S67. Calculated and Experimental ECD Spectra of Compounds **13**–**15** (A–C).



S68. Structures of compounds **22**–**37**.



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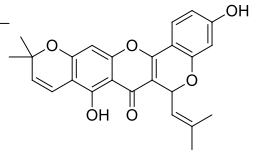

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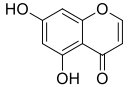

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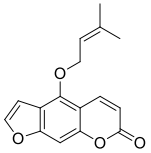

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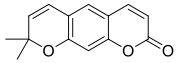

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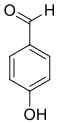

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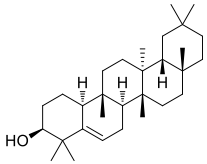

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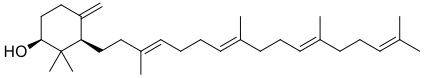

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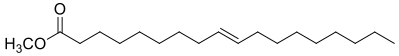

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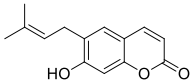

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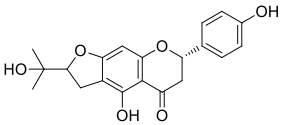

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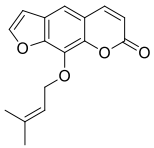

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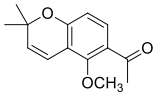
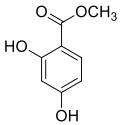
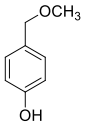


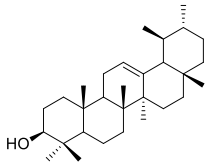
34



35



36



37

S69. ^{1}H NMR data of 53 known compounds.

Dicycloeuchrestaflavanone B (**22**): ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.54 (1H, s, OH-5), 7.19 (1H, s, H-6′), 6.58 (1H, d, *J* = 10.0 Hz, H-1‴), 6.39 (1H, s, H-3′), 6.36 (1H, d, *J* = 10.0 Hz, H-1″), 5.91 (1H, s, H-8), 5.77 (1H, d, *J* = 10.0 Hz, H-2″), 5.72 (1H, dd, *J* = 13.5, 2.5 Hz, H-2), 5.63 (1H, d, *J* = 10.0 Hz, H-2‴), 3.20 (1H, dd, *J* = 17.5 , 13.0 Hz, H-2a), 2.81 (1H, dd, *J* = 17.5, 3.0 Hz, H-2b), 1.44 (6H, s, Me-4‴, Me-5‴), 1.39 (6H, s, Me-4″, Me-5″).

Cudraflavone A (**23**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 13.03 (1H, s, H-5), 7.63 (1H, d, *J* = 8.5 Hz, H-6′), 6.70 (1H, d, *J* = 10.0 Hz, H-1‴), 6.54 (1H, dd, *J* = 8.5, 2.0 Hz, H-5′), 6.42 (1H, d, *J* = 2.0 Hz, H-3′), 6.37 (1H, s, H-8), 6.24 (1H, d, *J* = 9.0 Hz, H-1″), 5.59 (1H, d, *J* = 10.0 Hz, H-2‴), 5.42 (1H, d, *J* = 9.5 Hz, H-2″), 1.97 (3H, s, Me-4″), 1.70 (3H, s, Me-5″), 1.46 (6H, s, Me-4‴, Me-5‴).

5,7-Dihydroxychromone (**24**): ^{1}H NMR (DMSO-d_6, 500MHz) δ_H 12.70 (1H, s, OH-5), 8.18 (1H, d, *J* = 6.0 Hz, H-2), 6.37 (1H, d, *J* = 2.0 Hz, H-6), 6.28 (1H, d, *J* = 6.0 Hz, H-3), 6.21 (1H, d, *J* = 2.0 Hz, H-6).

Isoimperatorin (**25**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 8.15 (1H, d, *J* = 9.5 Hz, H-4), 7.57 (1H, d, *J* = 2.0 Hz, H-2′), 7.16 (1H, s, H-8), 6.95 (1H, d, *J* = 2.0 Hz, H-1′), 6.27 (1H, d, *J* = 9.5 Hz, H-3), 5.53 (1H, t, *J* = 7.0 Hz, H-2″), 4.92 (1H, d, *J* = 7.0 Hz, H-1″), 1.80 (3H, s, Me-4″) 1.70 (3H, s, Me-6′).

Xanthyletin (**26**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.59 (1H, d, *J* = 9.5 Hz, H-4), 7.06 (1H, s, H-5), 6.72 (1H, s, H-9), 6.23 (1H, d, *J* = 9.5 Hz, H-3), 6.34 (1H, d, *J* = 10.0 Hz, H-1′), 5.69 (1H, d, *J* = 10.0 Hz, H-2′), 1.43 (6H, s, Me-5′, Me-6′).

4-Hydroxybenzaldehyde (**27**): ^{1}H NMR (acetone-d_6, 500MHz) δ_H 9.86 (1H, s, H-7), 7.80 (2H, d, *J* = 8.5 Hz, H-2, H-6), 7.02 (2H, d, *J* = 8.5 Hz, H-3, H-5).

Glutinol (**28**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.63 (1H, d, *J* = 6.0 Hz, H-6), 3.47 (1H, m, H-3), 1.16 (3H, s, Me-28), 1.14 (3H, s, Me-24), 1.10 (3H, s, Me-26), 1.04 (3H, s, Me-23), 1.01

(3H, s, Me-27), 0.99 (3H, s, Me-30), 0.95 (1H, s, Me-29), 0.85 (1H, s, Me-25).

Achilleol A (**29**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.12 (4H, m, H-10, 13, 17, 21), 4.87 (1H, s, H-27a), 4.61 (1H, s, H-27b), 3.47 (1H, m, H-3), 2.33 (1H, m, H-5), 2.03 (16H, m, H-1, 8, 11, 12, 15, 16, 19, 20), 1.65 (4H, m, H-2, H-7), 1.68 (3H, s, Me-23), 1.60 (12H, s, Me-24, 28, 29, 30), 1.03 (3H, s, Me-25), 0.72 (3H, s, Me-26).

Oleic acid (**30**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.35 (2H, m, H-9, H-10), 3.66 (3H, s, OMe-1), 2.30 (2H, m, H-2), 2.05 (4H, m, H-8, H-11), 1.60 (2H, m, H-3), 1.26 (20H, m, H-4, H-5, H-6, H-7, H-12, H-13, H-14, H-15, H-16, H-17), 0.88 (3H, t, *J* = 6.5 Hz, Me-18).

Demethylsuberosin (**31**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.65 (1H, d, *J* = 9.5 Hz, H-4), 7.20 (1H, s, H-5), 6.82 (1H, s, H-8), 6.24 (1H, d, *J* = 9.5 Hz, H-3), 5.32 (1H, t, *J* = 7.5 Hz, H-2″), 3.39 (1H, d, *J* = 7.5 Hz, H-1″), 1.84 (3H, s, Me-4″) 1.80 (3H, s, Me-6′).

5-Dehydroxybavachinone A (**32**): ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.44 (1H, s, OH-5), 7.41 (2H, d, *J* = 8.5 Hz, H-2′, H-6′), 6.91 (2H, d, *J* = 8.5 Hz, H-3′, H-5′), 5.88 (1H, s, H-8), 5.45 (1H, dd, *J* = 13.0, 3.0 Hz, H-2), 4.75 (1H, dd, *J* = 9.5, 7.5 Hz, H-2″), 3.19 (1H, dd, *J* = 17.0, 13.0, H-3a), 3.05 (2H, m, H-1″), 2.77 (1H, dd, *J* = 17.0, 3.0 Hz, H-3b), 1.26 (3H, s, Me-4″), 1.20 (3H, s, Me-5″).

Imperatorin (**33**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.78 (1H, d, *J* = 9.5 Hz, H-4), 7.69 (1H, d, *J* = 2.0 Hz, H-2′), 7.37 (1H, s, H-5), 6.82 (1H, d, *J* = 2.0 Hz, H-1′), 6.38 (1H, d, *J* = 9.5 Hz, H-3), 5.61 (1H, t, *J* = 7.0 Hz, H-2″), 5.01 (1H, d, *J* = 7.0 Hz, H-1″), 1.75 (3H, s, Me-4″) 1.72 (3H, s, Me-6′).

Isoencecalin (**34**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.58 (1H, d, *J* = 9.0 Hz, H-1′), 6.61 (2H, m, H-5, H-6), 5.68 (1H, d, *J* = 9.5 Hz, H-2′), 3.81 (3H, s, OMe-2), 2.61 (3H, s, Me-8), 1.46 (6H, s, Me-4′, Me-5′).

2,4-Dihydroxymethylbenzoate (**35**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 10.94 (1H, s, OH-1), 7.33 (1H, d, *J* = 9.0 Hz, H-6), 6.40 (1H, d, *J* = 2.5 Hz, H-3), 6.36 (1H, dd, *J* = 9.0, 2.5 Hz, H-

5), 3.91 (3H, s, OMe-7).

4-(Methoxymethyl)phenol (**36**): ^{1}H NMR (acetone-d_6, 500MHz) δ_H 7.16 (2H, d, J = 8.5 Hz, H-2, H-6), 6.80 (2H, d, J = 9.0 Hz, H-3, H-5), 4.31 (2H, s, H-7), 3.27 (3H, s, OMe-7).

α-Amyrin (**37**): ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.13 (1H, t, J = 3.0 Hz, H-12), 3.46 (1H, m, H-3), 1.26 (3H, s, Me-23), 1.15 (3H, s, Me-27), 1.07 (3H, s, Me-24), 1.04 (3H, s, Me-26), 0.97 (3H, s, Me-25), 0.95 (3H, d, J = 4.0, Me-30), 0.91 (3H, d, J = 4.0, Me-29), 0.89 (3H, s, Me-28).

Gentisein: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.97 (1H, s, OH-1), 7.58 (1H, d, J = 2.5 Hz, H-8), 7.43 (1H, d, J = 9.0 Hz, H-5), 7.36 (1H, dd, J = 8.5, 2.5 Hz, H-6), 6.43 (1H, s, H-4), 6.27 (1H, s, H-2).

Toxyloxanthone B: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 13.37 (1H, s, OH-1), 8.04 (1H, d, J = 10.0 Hz, H-11), 6.83 (1H, s, H-5), 6.35 (1H, d, J = 2.5 Hz, H-4), 6.21 (1H, d, J = 2.0 Hz, H-2), 5.93 (1H, d, J = 10.0 Hz, H-12).

2-Deprenylrheediaxanthone B: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 13.43 (1H, s, OH-1), 7.63 (1H, d, J = 8.5 Hz, H-7), 7.00 (1H, d, J = 8.5 Hz, H-8), 6.15 (1H, s, H-2), 4.58 (1H, q, J = 6.5 Hz, H-14), 1.64 (3H, s, Me-12), 1.41 (3H, d, J = 6.5 Hz, Me-15), 1.35 (3H, s, Me-13).

4′-O-Demethylcrotaramin: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.51 (1H, d, J = 8.5 Hz, H-9), 7.10 (2H, d, J = 8.0 Hz, H-2′, H-6′), 6.76 (2H, d, J = 8.0 Hz, H-3′, H-5′), 6.71 (1H, d, J = 10.0 Hz, H-1″), 6.30 (1H, d, J = 8.5 Hz, H-8), 5.58 (1H, d, J = 10.0 Hz, H-2′), 3.17 (2H, t, J = 8.5 Hz, H-3), 2.97 (2H, t, J = 8.5 Hz, H-2), 1.47 (6H, s, Me-4″, Me-5″).

Brosimine B: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.29 (2H, d, J = 8.5 Hz, H-2′, H-6′), 6.83 (2H, d, J = 8.5 Hz, H-3′, H-5′), 6.82 (1H, d, J = 8.5 Hz, H-5), 6.41 (1H, d, J = 8.5 Hz, H-6), 5.26 (1H, t, J = 7.0 Hz, H-2″), 4.97 (1H, d, J = 10.5, 2.0 Hz, H-2), 3.41 (1H, d, J = 7.0 Hz, H-1″), 2.92 (1H, m, H-4a), 2.72 (1H, m, H-4b), 2.16 (1H, m, H-3a), 1.98 (1H, m, H-3b), 1.75 (3H, s, Me-4″), 1.72 (3H, s, Me-5″).

Pinocembrin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 7.50 (5H, m, H-2′, H-3′, H-4′, H-5′, H-6′), 6.04 (1H, d, *J* = 2.0 Hz, H-8), 5.97 (1H, d, *J* = 2.0 Hz, H-6), 5.57 (1H, dd, *J* = 13.0, 3.0 Hz, H-2), 3.16 (1H, dd, *J* = 17.0, 13.0 Hz, H-3a), 2.80 (1H, dd, *J* = 17.0, 3.0 Hz, H-3b).

Euchrestaflavanone C: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.49 (1H, s, OH-5), 7.19 (1H, s, H-6′), 6.37 (1H, d, *J* = 10.0 Hz, H-1′′′), 6.38 (1H, s, H-3′), 6.06 (1H, s, H-8), 5.57 (1H, d, *J* = 10.0 Hz, H-2′′′), 5.68 (1H, dd, *J* = 13.5, 3.0 Hz, H-2), 5.24 (1H, t, *J* = 7.5 Hz, H-2′′), 3.26 (2H, d, *J* = 7.5 Hz, H-1′′), 3.15 (1H, dd, *J* = 17.5 , 13.0 Hz, H-2a), 2.73 (1H, dd, *J* = 17.5, 3.0 Hz, H-2b), 1.76 (3H, s, Me-4′′), 1.64 (3H, s, Me-5′′) 1.40 (6H, s, Me-4′′′, Me-5′′).

4′-Hydroxyisolonchocarpin: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.74 (1H, d, *J* = 8.0 Hz, H-5), 7.39 (2H, d, *J* = 8.5 Hz, H-2′, H-6′), 6.90 (2H, d, *J* = 8.5 Hz, H-3′, H-5′), 6.63 (1H, d, *J* = 10.0 Hz, H-1′′) 6.49 (1H, d, *J* = 8.0 Hz, H-6), 5.57 (1H, d, *J* = 10.0 Hz, H-2′′), 5.41 (1H, dd, *J* = 13.0, 3.0 Hz, H-2), 3.01 (1H, dd, *J* = 16.5, 13.5 Hz, H-3a), 2.81 (1H, dd, *J* = 16.5, 3.0, H-3b), 1.47 (3H, s, Me-4′′), 1.44 (3H, s, Me-5′′).

Naringenin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.17 (1H, s, OH-5), 7.39 (2H, d, *J* = 8.5 Hz, H-2′, H-6′), 6.90 (2H, d, *J* = 8.5 Hz, H-3′, H-5′), 5.96 (1H, d, *J* = 2.0 Hz, H-6), 5.95 (1H, d, *J* = 2.0 Hz, H-8), 5.45 (1H, dd, *J* = 12.5, 3.0 Hz, H-2), 3.18 (1H, dd, *J* = 17.0, 13.0, H-3a), 2.73 (1H, dd, *J* = 17.0, 3.0 Hz, H-3b).

6-Prenylnarigenin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.46 (1H, s, OH-5), 7.38 (2H, d, *J* = 8.5 Hz, H-2′, H-6′), 6.89 (2H, d, *J* = 8.5 Hz, H-3′, H-5′), 6.45 (1H, s, H-8), 5.42 (1H, dd, *J* = 13.0, 3.0 Hz, H-2), 5.23 (1H, t, *J* = 6.5 Hz, H-1′′), 3.25 (1H, d, *J* = 6.5 Hz, H-2′′), 3.15 (1H, dd, *J* = 17.0, 13.0, H-3a), 2.73 (1H, dd, *J* = 17.0, 3.0 Hz, H-3b), 1.75 (3H, s, Me-4′′), 1.64 (3H, s, Me-5′′).

Tomentosanol D: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.16 (1H, s, OH-5), 7.41 (2H, d, *J* = 8.5 Hz, H-2′, H-6′), 6.91 (2H, d, *J* = 8.5 Hz, H-3′, H-5′), 5.99 (1H, s, H-6), 5.41 (1H, dd, *J* = 13.0, 2.5 Hz, H-2), 4.80 (1H, s, H-4′′a), 4.70 (1H, s, H-4′′b), 4.33 (1H, dd, *J* = 7.5, 4.5 Hz, H-

2″), 3.11 (1H, dd, J = 17.0, 13.0, H-3a), 2.91 (1H, dd, J = 14.5, 4.5 Hz, H-1″a), 2.79 (1H, dd, J = 14.5, 7.0 Hz, H-1″b), 2.75 (1H, dd, J = 17.0, 3.0 Hz, H-3b), 1.67 (3H, s, Me-5″).

Dalenin: ^{1}H NMR (Acetone-d_6, 500 MHz) δ_H 12.55 (1H, s, OH-5), 7.31 (1H, d, J = 8.0 Hz, H-6′), 6.58 (1H, d, J = 10.5 Hz, H-1″), 6.49 (1H, d, J = 2.0 Hz, H-3′), 6.42 (1H, dd, J = 8.0, 2.0 Hz, H-5′), 5.90 (1H, s, H-8), 5.72 (1H, dd, J = 13.0, 3.0 Hz, H-2), 5.62 (1H, d, J = 10.0 Hz, H-2″), 3.22 (1H, dd, J = 17.0, 13.5 Hz, H-3a), 2.75 (1H, dd, J = 17.0, 2.5 Hz, H-3b), 1.40 (6H, s, Me-4″, Me-5″).

Parvisoflavone A: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.48 (1H, s, OH-5), 8.01 (1H, s, H-2), 7.04 (1H, d, J = 8.0 Hz, H-6′), 6.78 (1H, d, J = 10.0 Hz, H-1″), 6.53 (1H, d, J = 2.0 Hz, H-3′), 6.40 (1H, d, J = 8.5 Hz, H-5′), 6.37 (1H, s, H-8), 5.70 (1H, d, J = 10.0 Hz, H-2″), 1.43 (6H, s, Me-4″, 5″).

Alpinumisoflavone: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 13.43 (1H, s, OH-5), 8.18 (1H, s, H-2), 7.46 (2H, d, J = 8.5 Hz, H-2′, 6′), 6.91 (2H, d, J = 8.5 Hz, H-3′, 5′), 6.68 (1H, d, J = 10.0 Hz, H-1″), 6.19 (1H, s, H-8), 5.77 (1H, d, J = 10.0 Hz, H-2″), 1.47 (6H, s, Me-4″, 5″).

8-Hydroxygenistein: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 8.10 (1H, s, H-2), 7.45 (2H, d, J = 8.0 Hz, H-2′, H-6′), 6.89 (2H, d, J = 8.0 Hz, H-3′, H-5′), 6.39 (1H, s, H-6).

Laburnetin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 13.49 (1H, s, OH-5), 8.08 (1H, s, H-2), 7.43 (2H, d, J = 8.5 Hz, H-2′, H-6′), 6.89 (2H, d, J = 8.5 Hz, H-3′, H-5′), 6.41 (1H, s, H-8), 4.94 (1H, s, H-4″a), 4.77 (1H, s, H-4″b), 4.43 (1H, dd, J = 8.0, 7.5 Hz, H-2″), 3.07 (1H, dd, J = 14.5, 8.5 Hz, H-1″a), 2.92 (1H, dd, J = 14.5, 7.5 Hz, H-1″b), 1.83 (3H, s, Me-5″).

Biochanin A: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 12.99 (1H, s, OH-5), 8.22 (1H, s, H-2), 7.47 (2H, d, J = 8.5 Hz, H-2′, H-6′), 6.92 (2H, d, J = 8.5 Hz, H-3′, H-5′), 6.55 (1H, s, H-6), 6.36 (1H, s, H-8), 3.93 (3H, s, OMe-4′).

Erythrinin B: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 13.30 (1H, s, OH-5), 8.04 (1H, s, H-2), 7.43 (2H, d, J = 8.5 Hz, H-2′, H-6′), 6.90 (2H, d, J = 8.5 Hz, H-3′, H-5′), 6.45 (1H, s, H-8),

5.28 (1H, t, J = 7.0 Hz, H-1″), 3.36 (2H, d, J = 7.0 Hz, H-2″), 1.78 (1H, s, Me-4″), 1.65 (1H, s, Me-5″).

Erythrinin C: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 13.24 (1H, s, OH-5), 8.17 (1H, s, H-2), 7.45 (2H, d, J = 8.0 Hz, H-2′, H-6′), 6.99 (2H, d, J = 8.0 Hz, H-3′, H-5′), 6.38 (1H, s, H-8), 4.85 (1H, t, J = 8.5 Hz, H-2″), 3.17 (2H, m, H-1″), 1.29 (3H, s, Me-4″), 1.25 (3H, s, Me-5″).

Erythrinin G: ^{1}H NMR (DMSO-d_6, 500MHz) δ_H 7.99 (1H, s, H-2), 7.27 (2H, d, J = 8.5 Hz, H-2′, H-6′), 6.77 (2H, d, J = 9.0 Hz, H-3′, H-5′), 6.39 (1H, s, H-8), 5.12 (1H, d, J = 5.0 Hz, OH-2″), 3.63 (1H, ddd, J = 7.5, 5.5, 5.0 Hz, H-2″), 2.76 (1H, dd, J = 17.0, 5.5 Hz, H-1″a), 2.40 (1H, dd, J = 17.0, 7.5 Hz, H-1″b), 1.30 (3H, s, Me-4″), 1.18 (3H, s, Me-5″).

Cudracuspiphenone A: ^{1}H NMR (acetone-d_6, 500 MHz) δ_H 12.24 (1H, s, OH-2), 7.38 (1H, t, J = 8.0 Hz, H-17), 7.14 (1H, d, J = 2.5 Hz, H-14), 7.13 (1H, d, J = 8.0 Hz, H-18), 7.11 (1H, d, J = 8.0 Hz, H-16), 7.02 (1H, s, H-6), 5.20 (1H, t, J = 7.5 Hz, H-8), 4.00 (3H, s, OMe-4), 3.22 (2H, d, J = 7.5 Hz, H-7), 1.67 (3H, s, Me-10), 1.65 (3H, s, Me-11).

Eriosematin A: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 12.96 (1H, s, OH-5), 7.71 (1H, d, J = 6.0 Hz, H-2), 6.38 (1H, s, H-6), 6.21 (1H, d, J = 6.0 Hz, H-3), 5.27 (1H, t, J = 7.0 Hz, H-12), 3.45 (2H, d, J = 7.5 Hz, H-11), 1.84 (3H, s, Me-14), 1.77 (3H, s, Me-15).

Decursinol angelate: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.57 (1H, d, J = 9.5 Hz, H-4), 7.15 (1H, s, H-5), 6.79 (1H, s, H-8), 6.22 (1H, d, J = 9.5 Hz, H-3), 6.10 (1H, q, J = 7.0 Hz, H-3″), 5.13 (1H, t, J = 5.0 Hz, H-2′), 3.22 (1H, dd, J = 17.0, 5.0 Hz, H-6′a), 2.89 (1H, dd, J = 17.0, 5.0 Hz, H-6′b), 1.84 (3H, s, Me-4″) 1.83 (3H, d, J = 7.5 Hz, Me-5″), 1.40 (3H, s, Me-4′), 1.39 (3H, s, Me-5′).

cis-3′.4′-Diisovalerylkhellactone: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.59 (1H, d, J = 10.0 Hz, H-4), 7.36 (1H, d, J = 8.5 Hz, H-5), 6.79 (1H, d, J = 8.5 Hz, H-6), 6.55 (1H, d, J = 5.0 Hz, H-1′), 6.23 (1H, d, J = 10.0 Hz, H-3), 5.33 (1H, d, J = 5.0 Hz, H-2′), 2.23 (2H, m, H-2″, H-7″), 2.10 (2H, m, H-3″, H-8″), 0.98 (12H, s, Me-4″, Me-5″, Me-9″, Me-10″), 1.45 (3H, s, Me-4′),

1.42 (3H, s, Me-5′).

7-Hydroxycoumarin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 7.85 (1H, d, J = 9.5 Hz, H-4), 7.51 (1H, d, J = 8.5 Hz, H-5), 6.84 (1H, dd, J = 8.5, 1.5 Hz, H-6), 6.75 (1H, d, J = 1.5 Hz, H-8), 6.16 (1H, d, J = 9.5 Hz, H-3).

8-Methoxypsoralene: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 8.04 (1H, d, J = 9.5 Hz, H-4), 7.96 (1H, d, J = 2.0 Hz, H-2′), 7.62 (1H, s, H-5), 7.02 (1H, d, J = 2.0 Hz, H-1′), 6.36 (1H, d, J = 9.5 Hz, H-3), 4.24 (3H, s, OMe-8).

Bergapten: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 8.17 (1H, d, J = 9.5 Hz, H-4), 7.60 (1H, d, J = 2.5 Hz, H-2′), 7.15 (1H, s, H-8), 7.03 (1H, d, J = 2.5 Hz, H-1′), 6.29 (1H, d, J = 9.5 Hz, H-3), 4.24 (3H, s, OMe-5).

Hyuganin C: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.60 (1H, d, J = 9.5 Hz, H-4), 7.37 (1H, d, J = 8.5 Hz, H-5), 6.80 (1H, d, J = 8.5 Hz, H-6), 6.53 (1H, d, J = 5.0 Hz, H-1′), 6.23 (1H, d, J = 9.5 Hz, H-3), 5.31 (1H, d, J = 5.0 Hz, H-2′), 2.10 (3H, s, Me-7″), 2.42 (1H, m, H-2″), 1.73 (1H, m, H-3″a), 1.49 (1H, m, H-3″b), 1.22 (3H, d, J = 7.0 Hz, H-5″), 0.95 (3H, t, J = 7.5 Hz, Me-4″), 1.45 (3H, s, Me-4′), 1.43 (3H, s, Me-5′).

2,4-Bis(4-hydroxybenzyl)phenol: ^{1}H NMR (acetone-d_6, 500MHz) ^{1}H NMR (CD_3COCD_3, 500MHz) δ_H 7.06 (2H, d, J = 8.5 Hz, H-9, H-13), 6.98 (2H, d, J = 8.5 Hz, H-16, H-20), 6.93 (1H, d, J = 2.0 Hz, H-2), 6.83 (1H, dd, J = 8.0, 2.0 Hz, H-6), 6.74 (1H, d, J = 8.0 Hz, H-5), 6.72 (2H, d, J = 8.5 Hz, H-10, H-12), 6.71 (2H, d, J = 8.5 Hz, H-17, H-19), 3.83 (2H, s, H-7), 3.73 (2H, s, H-14).

4-Hydroxymethylbenzoate: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 7.95 (2H, d, J = 9.0 Hz, H-2, H-6), 6.86 (2H, d, J = 8.5 Hz, H-3, H-5), 3.88 (3H, s, OMe-7).

Vanillin: ^{1}H NMR (acetone-d_6, 500MHz) δ_H 9.86 (1H, s, H-7), 7.46 (1H, d, J = 8.0 Hz, H-6), 7.02 (1H, dd, J = 8.0, 2.0 Hz, H-5), 7.45 (1H, d, J = 2.0 Hz, H-2), 3.94 (3H, s, OMe-3).

3-Methoxycarbonylindole: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 8.61 (1H, s, NH-1), 8.20 (1H,

m, H-4), 7.93 (1H, d, J = 3.0 Hz, H-2), 7.43 (1H, m, H-7), 7.28 (2H, m, H-5, H-6), 3.93 (3H, s, OMe-10).

4-Hydroxybenzalacetone: ^{1}H NMR ($CDCl_3$, 500MHz) δ_H 7.48 (1H, d, J = 16.0 Hz, H-4), 7.46 (1H, d, J = 8.5 Hz, H-6), 6.87 (1H, d, J = 8.5 Hz, H-7), 6.60 (1H, d, J = 16.5 Hz, H-3), 2.37 (3H, s, Me-1).

Lanosterol: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.10 (1H, t, J = 6.5 Hz, H-24), 3.25 (1H, dd, J = 11.5, 4.5 Hz, H-3), 1.68 (3H, s, Me-26), 1.61 (3H, s, Me-27), 1.43 (1H, m, H-17), 1.42 (1H, m, H-20), 1.01 (1H, m, H-5), 0.97 (6H, s, Me-19, Me-28), 0.86 (3H, s, Me-30), 0.85 (3H, d, J = 6.5 Hz, Me-21), 0.80 (3H, s, Me-29), 0.74 (3H, s, Me-18).

γ-Hexadecanolactone: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.35 (4H, m, H-9, H-10, H-12, H-13), 2.76 (2H, m, H-11), 2.35 (2H, m, H-2), 2.05 (4H, m, H-8, H-14), 1.65 (2H, m, H-3), 1.25 (14H, m, H-4, H-5, H-6, H-7, H-15, H-16, H-17), 0.88 (3H, t, J = 6.5 Hz, Me-18).

Hexadecanoic acid: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.35 (4H, m, H-9, H-10, H-12, H-13), 2.76 (2H, m, H-11), 2.35 (2H, m, H-2), 2.05 (4H, m, H-8, H-14), 1.65 (2H, m, H-3), 1.25 (14H, m, H-4, H-5, H-6, H-7, H-15, H-16, H-17), 0.88 (3H, t, J = 6.5 Hz, Me-18).

9,12-Octadecadienoic acid: ^{1}H NMR ($CDCl_3$, 500 MHz) δ_H 5.35 (4H, m, H-9, H-10, H-12, H-13), 2.76 (2H, m, H-11), 2.35 (2H, m, H-2), 2.05 (4H, m, H-8, H-14), 1.65 (2H, m, H-3), 1.33 (14H, m, H-4, H-5, H-6, H-7, H-15, H-16, H-17), 0.88 (3H, t, J = 6.5 Hz, Me-18)