Electronic Supplementary Material (ESI) for RSC Advances.

SUPPORTING INFORMATION

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I.-GENERAL CONSIDERATIONS

All reactions were carried out in an argon atmosphere under anhydrous conditions or otherwise noted.

Reaction solvents such as acetonitrile, was chromatography quality and were not further purified. Chromatography and extraction solvents dichloromethane, chloroform, *iso*-octane, *n*-hexane, *n*-heptane, ethyl acetate, acetone, and, ethanol were purchased from commercial suppliers.
N,N,N`,N`-tetramethylethylene diamine TMEDA was 99% pure and used as received from the supplier. Fluorinated reagents 1,1,1,2,2,3,3,4,4-nonafluoro-4-iodobutane (perfluorobutyl iodide), 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafluoro-10-iodododecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-8-iodooctane

,1,4-diiodo-1,1,2,2,3,3,4,4-octafluorobutane and 1,1,2,2,3,3,4,4,5,5,6,6-dodecafluoro-1,6-diiodohexane were used as received from the supplier without further purification, except when traces of iodine had to be removed, in which case, the neat liquid was passed through a neutral alumina column . Anilines were commercially available and purified by column chromatography or vacuum-distilled. 2,2,6,6-Tetramethyl-1-piperidinyloxy (TEMPO) and 1,4-dinitrobenzene were Ultra pure grade. Dye Rose Bengal (4,5,6,7-Tetrachloro-3',6'-dihydroxy-2',4',5',7'-tetraiodo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-3-one), was 99.9% pure and used as received from the supplier. Benzocaine was excipient-free and used as the active monodrug. Yields were referred to as isolated yields of analytically pure material unless otherwise noted, as the case of yields calculated from ^{19}F NMR and ^{1}H NMR spectral integration.

Reactions were magnetically stirred and monitored by thin-layer chromatography (TLC) using Silica gel 60 F254 pre-coated plates (0.25 mm, Merk), and revealed by UV-light.

Purification of the reaction products was carried out by flash column chromatography using Ultra Pure Silica Gel (230–400 mesh) or standard silica-gel for column chromatography (60 mesh).

The light source was a commercially available household 60-watt fluorescent light bulb or a 50 Watt black light (λ_{max} = 370 nm).

^{1}H NMR spectra were recorded on a Bruker Avance 600 (600 MHz) spectrometers, and are reported in ppm using the solvent residual peak resonance as the internal standard (dimethylsulfoxide-*d6* at 2.54 ppm, $CDCl_3$ at 7.26 ppm). ^{1}H NMR data are reported as follows: chemical shift; multiplicity; coupling constants (Hz); number of hydrogen.

Multiplicity is abbreviated as follows: s = singlet, d = doublet, t = triplet, dd = double doublet, m = multiplet, br = broad. Proton-decoupled ^{13}C NMR spectra were recorded on a Bruker Avance 500 (at 125.758 MHz), or on a Bruker Avance 600 (at 150.903 MHz) spectrometers and are reported in ppm using the C resonance signal from the solvent as the internal standard (acetone-*d6* at 29.8 ppm, $CDCl_3$ at 77.00 ppm). ^{19}F NMR spectra were recorded on a Bruker Avance 500 (at 470.592 MHz), or a Bruker Avance 600 (at 564.686 MHz) spectrometers and are reported in ppm using the internal standard signal from the spectrometer. High-resolution mass spectra (HRMS) were obtained using JEOL-DX 700 mass spectrometer.

II.-TABLES

Table S1. Averaged ^{19}F NMR chemical shift (ppm) values observed for the CF_2 group in I**CF_2**-C_3F_7 (1 equiv, 35 µL neat) in mixtures with additives and substrates in a given solvent

entry	additive	-δ (ppm) δ I-**CF_2**-C_3F_7	Δ δ (ppm) [δ (I-**CF_2**-C_3F_7) - δ (I-**CF_2**-C_3F_7)$_{additive}$]
1	-	64.16[a]	0
2	-	66.98[b]	0
3	1 equiv TMEDA	68.08[a]	3.92
4	0.25 equiv TMEDA	68.14[a]	3.98
5	0.4 equiv TMEDA	68.57[a]	**4.41**
6	1 equiv 2,4,6,-triaminopyrimidine	68.76[c]	4.60
7	0.25 equiv 2,4,6,-triaminopyrimidine + 1 equiv TMEDA	70.35[c]	**6.19**
8	0.4 equiv 2,4-dihydroxy-6-methyl-pyrimidine	68.60[c]	4.44
9	0.25 equiv 2,4-dihydroxy-6-methyl-pyrimidine + 1 equiv TMEDA	70.30[c]	6.14
10	0.4 equiv 1 equiv 2,4-diamino-6-hydroxy-pyrimidine	68.77[c]	4.61
11	0.25 equiv 2,4-diamino-6-hydroxy-pyrimidine + 1 equiv TMEDA	70.46[c]	6.30
12	0.4 equiv barbituric acid	68.73[c]	4.57

a.-in CD_3CN. b.-in DMSO-d_6. c.-in DMF

III.-FIGURES

Figure S1. Uv-visible Spectrum of C_4F_9I [0,6 M] in MeCN at the working concentration. λ_{max}= 462 nm (ε= 0.677 10^{+3} dm^3 mol^{-1} cm^{-1}) denoting the absorption of I2

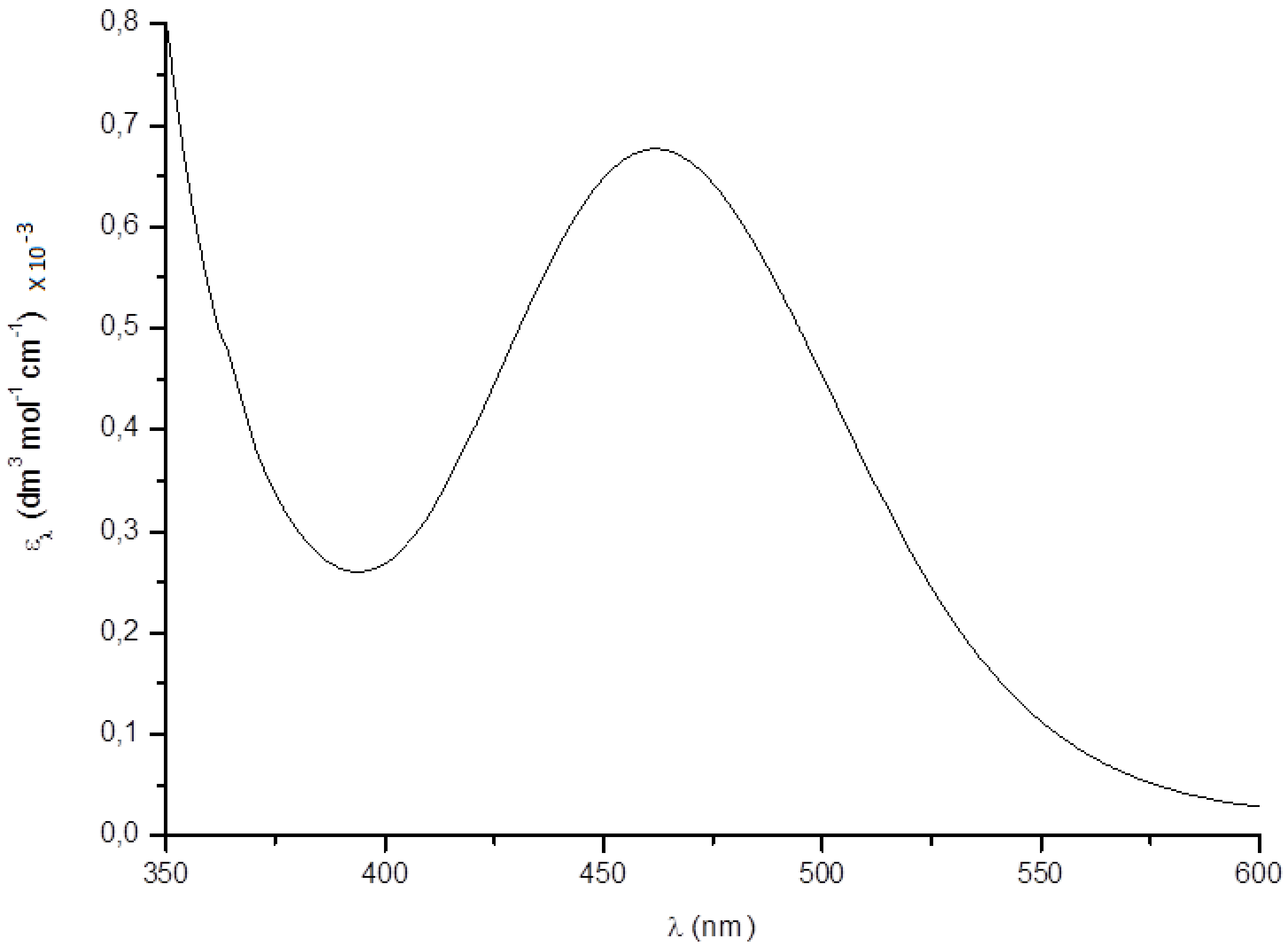


Figure S2. Uv-visible Spectrum of I_2 [0,55 mM] in (MeCN)

λ_{max}= 457 nm (ε= 0.699 dm^3 10^{+3} mol^{-1} cm^{-1})

λ_{max}= 364 nm (ε= 0.741 dm^3 10^{+3} mol^{-1} cm^{-1})

λ_{max}= 291 nm (ε= 1.459 dm^3 10^{+3} mol^{-1} cm^{-1})

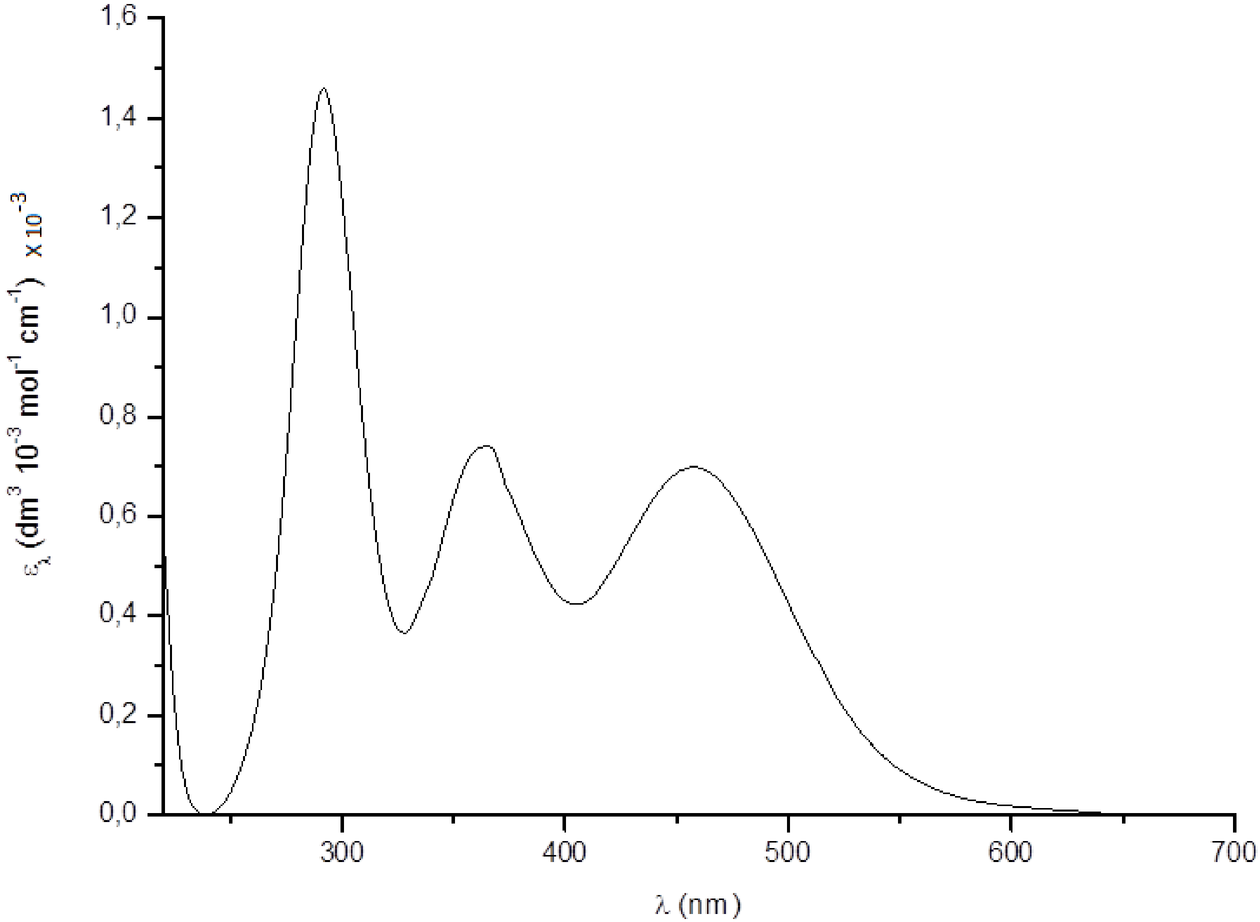
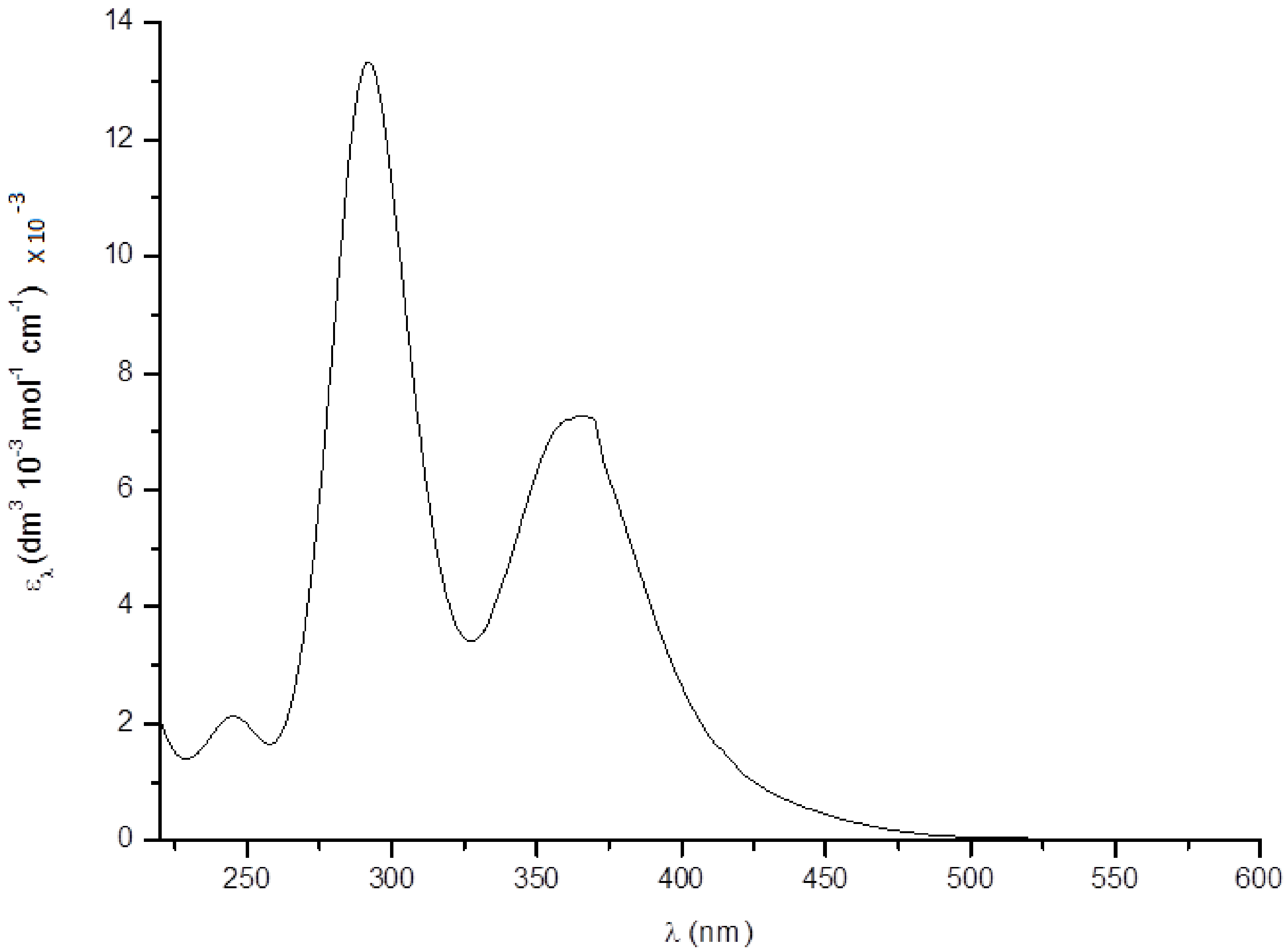


Figure S3. Uv-visible Spectrum of the mixture TMEDA [0.03 mM] + I_2 [0.06 mM] in (MeCN)

λ_{max}= 365 nm (ε= 7267 dm^3 10^{-3} mol^{-1} cm^{-1})

λ_{max}= 292 nm (ε= 13330 dm^3 10^{-3} mol^{-1} cm^{-1})



IV.-EXPERIMENTAL PROCEDURES AND CHARACTERIZATION DATA

IV.A.-GENERAL PROCEDURE FOR THE (TMEDA.I).I_3)-INITIATED REACTIONS

In a 4 mL screw-cap vial provided with a micro stir bar, TMEDA (1.8 mmol) ((TMEDA) I.I_3 complex, ca. 0.25 mM), substrate (0.6 mmol, aniline derivative or aminoheteroaromatic compound), or photocatalyst Rose Bengal where needed (0.05 equiv) and 3 mL of acetonitrile were introduced. The mixture was de-oxygenated with a stream of Ar for 15 min. and C_4F_9I or other R_FI (3 equiv) was introduced by microliter syringe, and the vial sealed. The closed reaction vessel was placed in front of a 60 Watt household fluorescent light bulb (or 20 Watt fluorescent black light, λ_{max} = 370 nm) and illuminated, under constant vigorous stirring, for 24 hrs or otherwise noted. After the reaction time was completed, the mixture was extracted thrice with with CH_2Cl_2 / water /brine. The organic layers were gathered and dried over anhydrous Na_2SO_4, filtered and evaporated under vacuo. The crude reaction mixture was purified by silica-gel (60 mesh) column chromatography, with the eluants indicated in the TLC conditions (*vide infra*, spectral data). The polarity of the dye did not introduce any particular difficulty in the separation and purification protocol, as the several CH_2Cl_2 extractions eliminated the **PC**. The eluants employed are referred to in the TLC conditions of each compound.

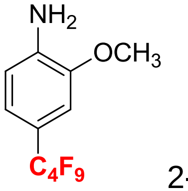
IV.B.-LARGE SCALE REACTIONS

In a 60 mL Schlenk-type tube 2-anisidine (12 mmol), TMEDA (36 mmol), and a stir bar were placed and a volume of 60 mL of MeCN was introduced by syringe through a septum. The mixture was de-oxygenated with a stream of dry Ar for 30 min., and 36 mmol of *n*-C_4F_9I were added to the mixture. The set-up was placed on a stir plate, and vigorously stirred throughout the reaction time. The vessel was placed in front (1 cm) of a 60 Watt CFL, and irradiated for 40 hours. The crude reaction mixture was purified by silica-gel (60 mesh) column chromatography, with the eluants indicated in the TLC conditions (*vide infra*, spectral data). The large-scale reaction afforded 36 % yield (1.474 g) of combined purified products **1**.

In a 60 mL Schlenk-type tube 5-bromo-2-aminopyridine (12 mmol), TMEDA (36 mmol), and a stir bar were placed. A volume of 60 mL of MeCN was introduced by 50-mL syringe. The mixture was de-oxygenated with a stream of dry Ar for 30 min., and 36 mmol of *n*-C_4F_9I were added to the mixture by syringe through a septum. The set-up was placed on a stir plate, and vigorously stirred throughout the reaction time. The vessel was placed in front (1 cm) of a 60 Watt CFL, and irradiated for 40 hours. The crude reaction mixture was purified by silica-gel (60 mesh) column chromatography, with the eluants indicated in the TLC conditions (*vide infra*, spectral data). The large-scale reaction afforded 45 % yield (2.111 g) of purified product **24**.

IV.C.-CHARACTERIZATION OF COMPOUNDS

All compounds are unknown chemicals, unless otherwise noted, and are reported as % yields obtained by NMR integration (from ^{1}H and ^{19}F NMR integration) of the crude reaction mixtures. Isolated purified masses of compounds are expressed in Gram units. Characterizations employ ^{1}H, ^{13}C, ^{19}F 1D-NMR techniques, and 2D NMR spectroscopic techniques (HSQC, HMBC, COSY experiments, and DEPT-135), and HRMS measurements.

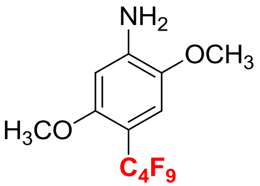


2-methoxy-4-(perfluorobutyl)aniline (**1)**,: yellow oil, 95%. Isolated and purified mass obtained: 67 mg.

TLC (CH_2Cl_2/*iso*-octane 1:1 v/v): R*f* = 0.5;
^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.01 (d, J = 10 Hz, 1H), 6.92 (s, 1H), 6.73 (d, J = 10 Hz, 1H), 4.15 (b s, 2H), 3.90 (s, 3H).
^{13}C NMR (150 MHz, $CDCl_3$) δ: 146.5, 139.7, 120.4 (t, CF2), 118.7 (m, CF2), 118.1 (t, CF3), 116.7 (m), 113.5, 112.5, 109.7, 108.4, 55.6.

^{19}F NMR (564.603 MHz $CDCl_3$) δ: -81.11 (t, 3F), -109.32 (t, 2F), -122.78 (m, 2F), -125.68 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{11}H_9F_9NO$: 342.05349; found, 342.05388.



2,5-dimethoxy-4-(perfluorobutyl)aniline **(2)**; yellow oil. Yield= 63%. Isolated and purified mass obtained: 27 mg.

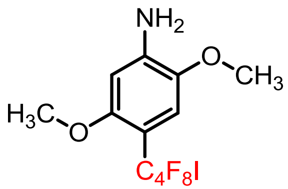
TLC (CH_2Cl_2: *iso*-octane 7:3 v/v): Rf= 0.69

^{1}H NMR (600 MHz, $CDCl_3$) δ: 6.82 (s, 1H), 6.35 (s, 1H), 4.15 (b s, 2H), 3.83 (s, 3H), 3.76 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 154.1, 141.2, 140.6, 116.8 (CF2), 110.9, 104.9, 99.8, 56.7, 56.3.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -81.00 (t, 3F), -106.20 (t, 2F), -122.25 (m, 2F), -126.06 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{12}H_{10}F_9NO_2$: 372.05678; found, 372.05670



2,5-dimethoxy-4-(1,1,2,2,3,3,4,4-octafluoro-4-iodobutyl)aniline (**3**); pale yellow oil. Yield= 18%. Isolated and purified mass obtained: 21 mg.

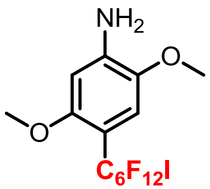
TLC (CH_2Cl_2: *n*-hexane 8:2 v/v): Rf= 0.62

^{1}H NMR (600 MHz, $CDCl_3$) δ: 6.82 (s, 1H), 6.35 (s, 1H), 4.13 (b s, 2H), 3.83 (s, 3H), 3.76 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 154.1, 141.0, 140.6, 111.0, 100.1, 99.9, 56.8, 56.3.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -57.55 (t, 2F), -106.07 (t, 2F), -112.78 (m, 2F), -120.43 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{12}H_{10}F_8INO_2$: 479.96285; found, 479.96280.



2,5-dimethoxy-4-(1,1,2,2,3,3,4,4,5,5,6,6-dodecafluoro-6-iodohexyl)aniline(**4a**); pale yellow oil. Yield= 39%.

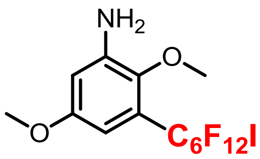
TLC (CH_2Cl_2: *n*-hexane 8:2 v/v): Rf= 0.52

^{1}H NMR (600 MHz, $CDCl_3$) δ: 6.85 (s, 1H), 6.14 (s, 1H), 3.99 (b s, 2H), 3.70 (s, 3H), 3.63 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 152.3, 142.7, 139.9, 112.7, 108.5, 98.1, 56.7, 56.6.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -58.70 (t, 2F), -107.16 (t, 2F), -113.07 (m, 2F), -119.97 (m, 2F), -120.88 (m, 2F), -121.74 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{14}H_{10}F_{12}INO_2$ 579.95646; found, 579.95635.

 2,5-dimethoxy-3-(1,1,2,2,3,3,4,4,5,5,6,6-dodecafluoro-6-iodohexyl)aniline **(4b)**; pale yellow oil. Yield= 37%.

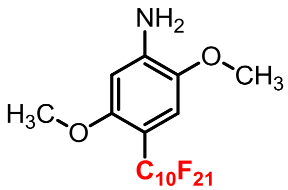
TLC (CH_2Cl_2: *n*-hexane 8:2 v/v): Rf= 0.55

^{1}H NMR (600 MHz, $CDCl_3$) δ: 6.45 (s, 1H), 6.31 (s, 1H), 3.99 (b s, 2H), 3.66 (s, 3H), 3.57 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 153.1, 142.6, 140.6, 112.8, 111.2, 105.3, 56.2, 55.7.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -58.39 (t, 2F), -107.16 (t, 2F), -113.07 (m, 2F), -120.13 (m, 2F), -120.88 (m, 2F), -121.48 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{14}H_{10}F_{12}INO_2$ 579.95646; found, 579.95640.

 2,5-dimethoxy-4-(perfluorodecyl)aniline (**5**); pink solid. Yield= 10%. Isolated and purified mass obtained: 6 mg.

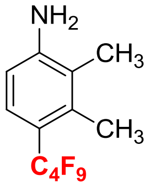
TLC (ethyl acetate: *n*-hexane 4:6 v/v): Rf= 0.70

^{1}H NMR (600 MHz, $CDCl_3$) δ: 6.82 (s, 1H), 6.35 (s, 1H), 4.13 (b s, 2 H), 3.83 (s, 3H), 3.77 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 154.1, 141.1, 140.6, 110.9, 102.1, 99.8, 56.8, 56.3.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.74 (t, 3F), -105.98 (m, 2F), -121.33 (m, 2F), -121.78 (m, 10F), -122.67 (m, 2F), -126.08 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{18}H_{10}F_{21}NO_2$ 672.03762; found, 672.03741.



2,3-dimethyl-4-(perfluorobutyl)aniline (**6**); dark amber oil. Yield= 24%. Isolated and purified mass obtained: 30 mg.

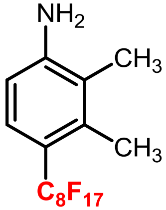
TLC (CH_2Cl_2: *iso*-octane 7:3 v/v): Rf= 0.57

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.21 (d, J = 8.6 Hz, 1H), 6.61 (d, J = 8.6 Hz, 1H), 3.88 (b s, 2H), 2.33 (s, 3H), 2.10 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.6, 137.6, 127.0, 121.9, 117.0, 112.3, 17.0, 13.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.98 (t, 3F), -102.89 (t, 2F), -121.33 (m, 2F), -125.79 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{12}H_{10}F_9N$ 340.06695; found, 340.06690.



2,3-dimethyl-4-(perfluorooctyl)aniline (**7**); pale yellow solid. Yield= 58%. Isolated and purified mass obtained: 26 mg.

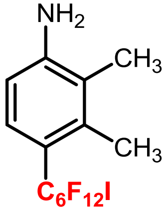
TLC (CH_2Cl_2: *n*-hexane 1:1 v/v): Rf= 0.67

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.21 (d, J = 8.6 Hz, 1H), 6.61 (d, J = 8.6 Hz, 1H), 3.88 (b s, 2H), 2.33 (s, 3H), 2.10 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.6, 137.7, 127.0, 121.9, 117.2, 112.3, 17.0, 13.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.81 (t, 3F), -102.72 (t, 2F), -120.40 (m, 2F), -121.49 (m, 2F), -121.87 (m, 4F), -122.73 (m, 2F), -126.13 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{16}H_{10}F_{17}N$ 540.05418; found, 540.05420.



2,3-dimethyl-4-(1,1,2,2,3,3,4,4,5,5,6,6-dodecafluoro-6-iodohexyl)aniline **(8)**; pale yellow oil. Yield= 54%. Isolated and purified mass obtained: 13 mg.

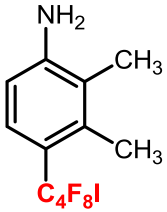
TLC (CH_2Cl_2: *n*-hexane 6:4 v/v): Rf= 0.66

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.21 (d, J = 8.6 Hz, 1H), 6.60 (d, J = 8.6 Hz, 1H), 3.87 (b s, 2H), 2.33 (s, 3H), 2.10 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.6, 137.7, 127.1, 121.9, 117.3, 112.3, 17.1, 13.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -58.58 (t, 2F), -102.70 (t, 2F), -112.99 (m, 2F), -120.36 (m, 2F), -120.87 (m, 2F), -121.48 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{14}H_{10}F_{12}IN$ 547.96663; found, 547.96651.



2,3-dimethyl-4-(1,1,2,2,3,3,4,4-octafluoro-4-iodobutyl)aniline **(9)**; yellow oil. Yield= 37%. Isolated and purified mass obtained: 68 mg.

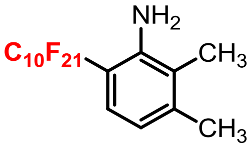
TLC (CH_2Cl_2: *n*-hexane 8:2 v/v): Rf= 0.77

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.20 (d, J = 8.6 Hz, 1H), 6.60 (d, J = 8.6 Hz, 1H), 3.85 (b s, 2H), 2.32 (s, 3H), 2.10 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.6, 137.6, 127.1, 121.8, 117.1, 112.3, 17.0, 13.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -57.77 (t, 2F), -102.74 (t, 2F), -112.56 (m, 2F), -119.42 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{12}H_{10}F_8IN$ 447.97302; found, 447.96999



2,3-dimethyl-6-(perfluorodecyl)aniline (**10a**); white solid. Yield= 2%.

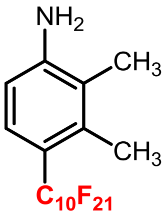
TLC (CH_2Cl_2: *n*-hexane 1:1 v/v): Rf= 0.88

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.10 (d, J = 8.0 Hz, 1H), 6.66 (d, J = 8.0 Hz, 1H), 3.49 (b s, 2H), 2.31 (s, 3H), 2.09 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 143.9, 141.2, 125.9, 122.0, 119.6, 109.8, 20.9, 12.6

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -59.21 (t, 2F), -81.03 (t, 3F), -113.20 (m, 2F), -121.02 (m, 2F), -121.98 (m, 8F), -122.89 (m, 2F), -126.32 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{18}H_{10}F_{21}N$ 640.04779; found, 640.04771



2,3-dimethyl-4-(perfluorodecyl)aniline **(10b)**; pale yellow solid. Yield= 4%. Isolated and purified mass obtained: 4.6 mg.

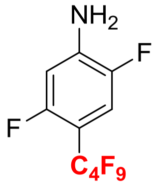
TLC (CH_2Cl_2: *n*-hexane 1:1 v/v): Rf= 0.60

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.21 (d, J = 8.6 Hz, 1H), 6.61 (d, J = 8.6 Hz, 1H), 3.88 (b s, 2H), 2.33 (s, 3H), 2.10 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.6, 137.7, 127.1, 121.9, 117.2, 112.3, 17.0, 13.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.73 (t, 3F), -102.69 (t, 2F), -120.37 (m, 2F), -121.79 (m, 10F), -122.67 (m, 2F), -126.08 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{18}H_{10}F_{21}N$ 640.04779; found, 640.04758



2,5-difluoro-4-(perfluorobutyl)aniline **(11)**; yellow oil. Yield= 9%. Isolated and purified mass obtained: 2.5 mg.

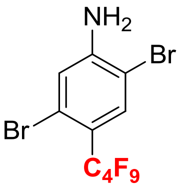
TLC (CH_2Cl_2: *iso*-octane 6:4 v/v): Rf= 0.58

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.11 (dd, J = 4.6 Hz, J = 11 Hz, 1H), 6.53 (dd, J = 4.5 Hz, J = 11.6 Hz, 1H), 4.20 (b s, 2H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 156.6, 147.5, 139.9, 115.0 (m), 108.2, 103.8 (dd).

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -81.01 (t, 3F), -108.30 (m, 2F), -116.62 (td, 1F), -123.00 (m, 2F), -125.93 (m, 2F), -140.51 (d, 1F).

HRMS-EI**+** (M+1): Calcd. For $C_{10}H_4F_{11}N$ 348.01681; found, 348.01690



2,5-dibromo-4-(perfluorobutyl)aniline (**12)**; yellow oil. Yield= 15%. Isolated and purified mass obtained: 53.4 mg.

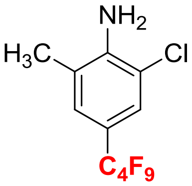
TLC (CH_2Cl_2: petroleum ether 4:6 v/v): Rf= 0.60

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.58 (s, 1H), 7.05 (s, 1H), 4.49 (b s, 2H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 147.9, 134.2, 120.7, 120.5, 117.6, 106.9.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.95 (t, *3*F), -105.73 (t, 2F), -120.58 (m, 2F), -125.81 (m, 2F)

HRMS-EI**+** (M+1): Calcd. For $C_{10}H_4F_9Br_2N$ 467.85668; found, 467.85669.



2-chloro-6-methyl-4-(perfluorobutyl)aniline **(13)**; dark amber oil. Yield= 15%. Isolated and purified mass obtained: 13.7 mg.

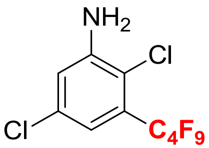
TLC (CH_2Cl_2: *iso*-octane 4:6 v/v): Rf= 0.56

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.36 (s, 1H), 7.15 (s, 1H), 4.36 (b s, 2H), 2.24 (s, 3H).

^{13}C NMR (151 MHz, $CDCl_3$) δ = 144.5, 127.2, 126.0, 123.0, 118.6, 117.9, 18.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -81.09 (t, 3F), -109.72 (t, 2F), -122.71 (m, 2F), -125.64 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{11}H_7F_9ClN$ 360.01233; found, 360.01241.



2,5-dichloro-3-(perfluorobutyl)aniline **(14)**; dark amber oil. Yield= 16%. Isolated and purified mass obtained: 58 mg.

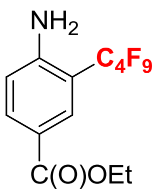
TLC (CH_2Cl_2: *iso*-octane 3:7 v/v): Rf= 0.73

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.45 (d, J = 2.3 Hz, 1H), 7.24 (d, J = 2.3 Hz, 1H), 4.75 (b s, 2H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 142.6, 141.2, 132.9, 127.6, 121.9.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.89 (t, 3F), -109.07 (t, 2F), -122.49 (m, 2F), -125.78 (m, 2F)..

HRMS-EI**+** (M+1): Calcd. For $C_{10}H_4Cl_2F_9N$ 379.95771 ; found, 379.95784.



Ethyl-4-amino-3-(1,1,2,3,3,4,4,4-octafluoro-2-methylbutyl)benzoate, **(15)**: white solid, m.p. 89 – 90 °C.

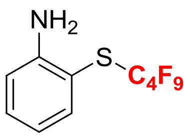
TLC (CH_2Cl_2/*iso*-octane 1:1 v/v): R*f* = 0.6;

^{1}H NMR (600 MHz, $CDCl_3$) δ: 8.03 (d, J = 2Hz, 1H), 7.94 (dd, J = 10 Hz, J = 5Hz, 1H), 6.70 (d, J = 10 Hz, 1H), 4.66 b s, 2H), 4.33 (q, J = 7Hz, 2H), 1.37 (t, J = 7Hz, 3H).

^{13}C NMR (150 MHz, $CDCl_3$) δ: 165.6, 149.5, 134.2, 131.6 (t, CF2), 119.8, 118.4, 117.4, 116.9, 110.0 (t, CF2), 60.8, 14.3.

^{19}F NMR (564.603 MHz $CDCl_3$) δ: -81.00 (t, 3F), -109.06 (t, 2F), -122.74 (m, 2F), -125.83 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{13}H_{11}F_9NO_2$: 384.06406; found, 384.06535.



2-((perfluorobutyl)thio)aniline **(16)**; pale yellow oil. Yield > 95%. Isolated and purified mass obtained: 66.2 mg.

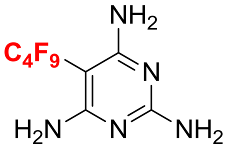
TLC (CH_2Cl_2: *iso*-octane 1:1 v/v): Rf= 0.63

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.47 (d, J = 7.8 Hz, 1H), 7.28 (t, J = 7.3 Hz, J = 8.2 Hz, 1H), 6.77 (d, J = 8.2 Hz, 1H), 6.74 (t, J = 7.3 Hz, J = 7.8 Hz, 1H), 4.45 (b s, 2H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 151.1, 140.0, 133.4, 118.8, 115.8, 104.5.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -81.05 (t, 3F), -87.05 (t, 2F), -120.37 (m, 2F), -125.54 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_{10}H_6F_9NS$ 344.00772 ; found, 344.00801.

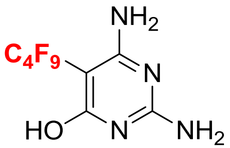

5-(perfluorobutyl)pyrimidine-2,4,6-triamine **(17)** pale yellow oil. Yield > 48%. Isolated and purified mass obtained: 56.2 mg

^{1}H NMR (600 MHz, DMSO-d6) δ: -

^{13}C NMR (151 MHz, DMSO-d6) δ: 162.4, 162.5

^{19}F NMR (564.63 MHz, DMSO-d6) δ: -80.41 (t, 3F), -101.47 (m, 2F), -122.77 (m, 2F), -125.35 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_8H_6F_9N_5$ 344.04795 ; found, 344.04799.

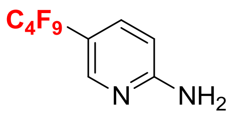

2,6-diamino-5-(perfluorobutyl)pyrimidin-4-ol **(18)** pale yellow oil. Yield > 64%. Isolated and purified mass obtained: 39.8 mg

^{1}H NMR (600 MHz, DMSO-d6) δ: 5.74 (s)

^{13}C NMR (151 MHz, DMSO-d6) δ: 206.5 (C=O from tautomer), 167.3 (from oxo tautomer), 163.1 (from oxo tautomer), 160.6, 160.3, 157.5, 156.3, 155.0 (from oxo tautomer).

^{19}F NMR (564.63 MHz, DMSO-d6) δ: -79.10 (t, 3F) (from oxo tautomer), -80.45 (t, 3F), -102.34 (m, 2F) (from oxo tautomer), -111.83 (m, 2F), -121.54 (m, 4F), -122.38 (m, 2F), -125.35 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_8H_5F_9N_4O$ 345.03196; found 345.03205.

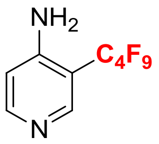
 5-(perfluorobutyl)pyridin-2-amine **(19)** pale yellow oil. Yield > 23%. Isolated and purified mass obtained: 19.8 mg

^{1}H NMR (600 MHz, $CDCl_3$) δ: 8.26 (s, 1H), 7.56 (1H, d, J = 3Hz), 6.53 (d, 1H, J = 3 Hz), 4.86 (broad s, 2H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 160.6, 147.7, 136.3, 114.8, 107.8.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -81.07 (t, 3F), -110.57 (m, 2F), -123.02 (m, 2F), -125.59 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_9H_5F_9N_2$ 313.03090; found 313.03081.

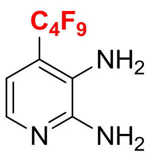
 3-(perfluorobutyl)pyridin-4-amine **(21)** Yield > 25%. Isolated and purified mass obtained: 19.9 mg

^{1}H NMR (600 MHz, $CDCl_3$) δ: 8.37 (s, 1H), 8.27 (d, 1H, J = 3 Hz), 6.57 (d, 1H, J = 3 Hz), 4.78 (broad s, 2 H).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 152.6, 151.6, 150.2, 150.0, 111.4.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.96 (t, 3F), -109.48 (broad s, 2F), -123.05 (broad s, 2F), -125.74 (brad s, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_9H_5F_9N_2$; 313.03090; found 313.03099

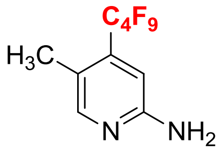
 4-(perfluorobutyl)pyridine-2,3-diamine **(22)** Yield > 12%. Isolated and purified mass obtained: 10 mg

^{1}H NMR (600 MHz, $CDCl_3$) δ: 7.01 (d, 1 H, J = 2 Hz), 6.94 (d, 1H, J = 2 Hz), 4.38 (broad s, 2 H), 3.60 (broad s, 2 H), 3.82 (s, =NH), 3.75 (s, =NH).

^{13}C NMR (151 MHz, $CDCl_3$) δ: 148.6, 135.6, 132.1, 120.9, 115.1.

^{19}F NMR (564.63 MHz, $CDCl_3$) δ: -80.99 (t, 3F), -113.22 (m, 2F), -122.75 (m, 2F), -125.76 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_9H_6F_9N_3$ 328.04180; found 328.04210.



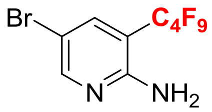
5-methyl-4-(perfluorobutyl)pyridin-2-amine **(23)** Yield > 47%. Isolated and purified mass obtained: 51 mg

^{1}H NMR (600 MHz, DMSO-d6) δ: 8.07 (s, 1H), 7.47 (s, 1H), 6.07 (broad s, 2 H), 3.33 (s, 3H).

^{13}C NMR (151 MHz, DMSO-d6) δ: 154.6, 152.9, 142.3, 137.7, 120.6, 16.4.

^{19}F NMR (564.63 MHz, DMSO-d6) δ: -80.5 (t, 3F), -108.86 (m, 2F), -122.23 (m, 2F), -125.34 (m, 2F)

HRMS-EI**+** (M+1): Calcd. For $C_{10}H_7F_9N_2$ 327.04655; found 327.04669.



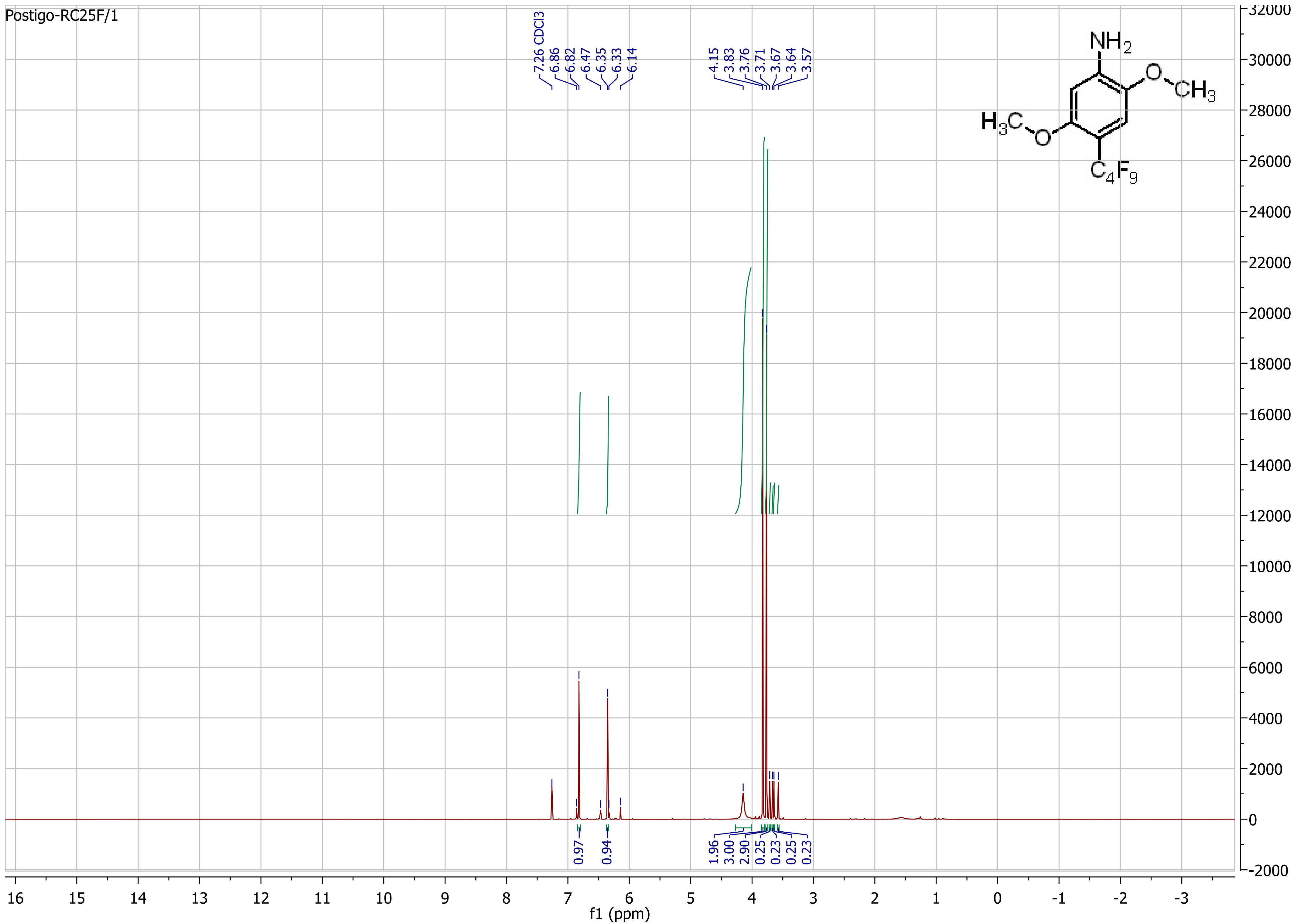
5-bromo-3-(perfluorobutyl)pyridin-2-amine **(24)** Yield > 50%. Isolated and purified mass obtained: 53 mg

^{1}H NMR (600 MHz, DMSO-d6) δ: 8.31 (s, 1H), 7.79 (s, H), 6.65 (broad s, 2 H).

^{13}C NMR (151 MHz, DMSO-d6) δ: 155.2, 153.3, 139.2, 104.1, 99.5.

^{19}F NMR (564.63 MHz, DMSO-d6) δ: -80.49 (t, 3F), -109.39 (m, 2F), -122.21 (m, 2F), -125.27 (m, 2F).

HRMS-EI**+** (M+1): Calcd. For $C_9H_4BrF_9N_2$ 390.94141; found 390.94151.



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6.82
6.47
6.35
6.33
6.14
4.15
3.83
3.76
3.71
3.67
3.64
3.57
NH2
O
CH3
H3C
O
C4F9
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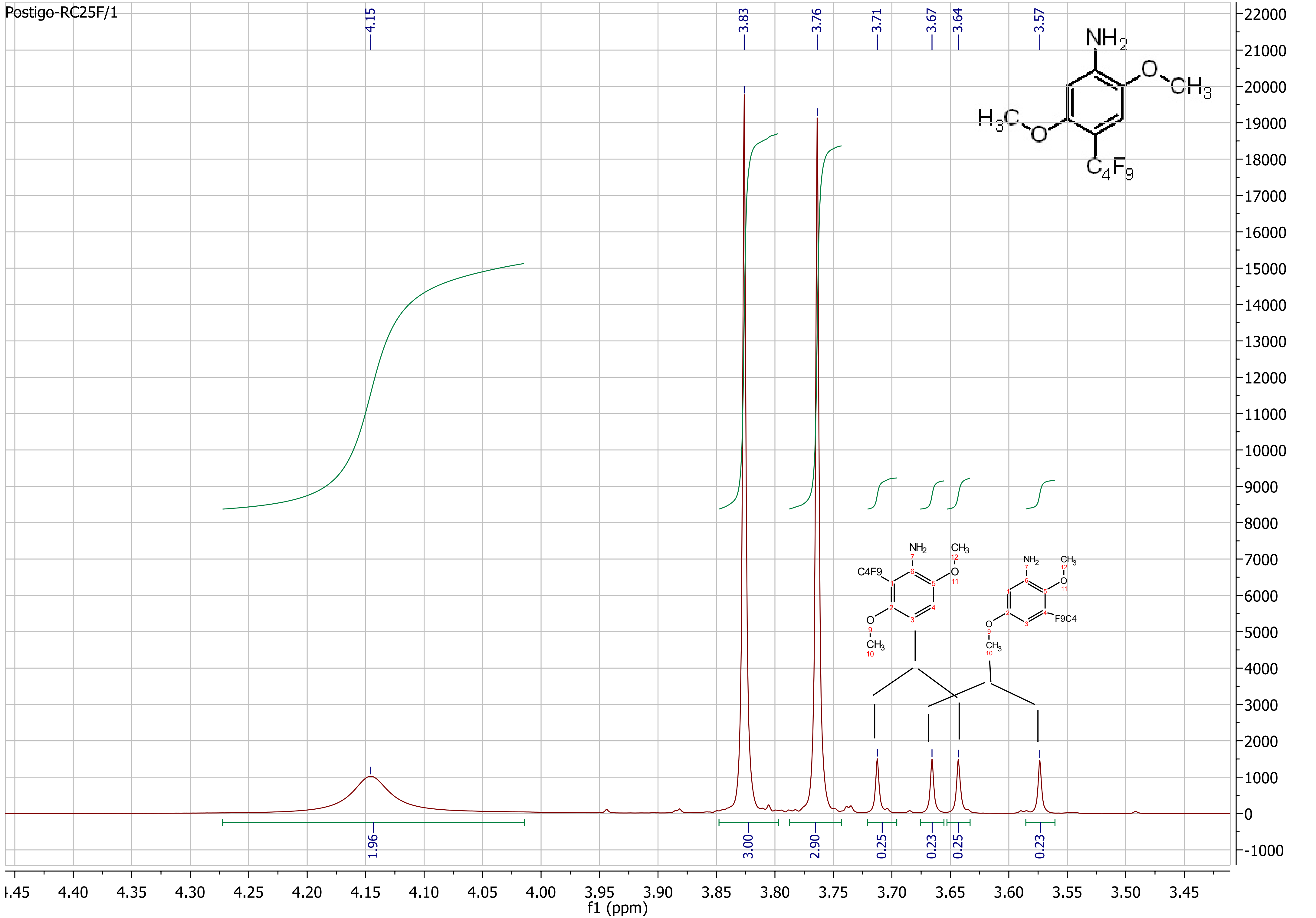
0.94
1.96
3.00
2.90
0.25
0.23
0.25
0.23
f1 (ppm)


Postigo-RC25F/1
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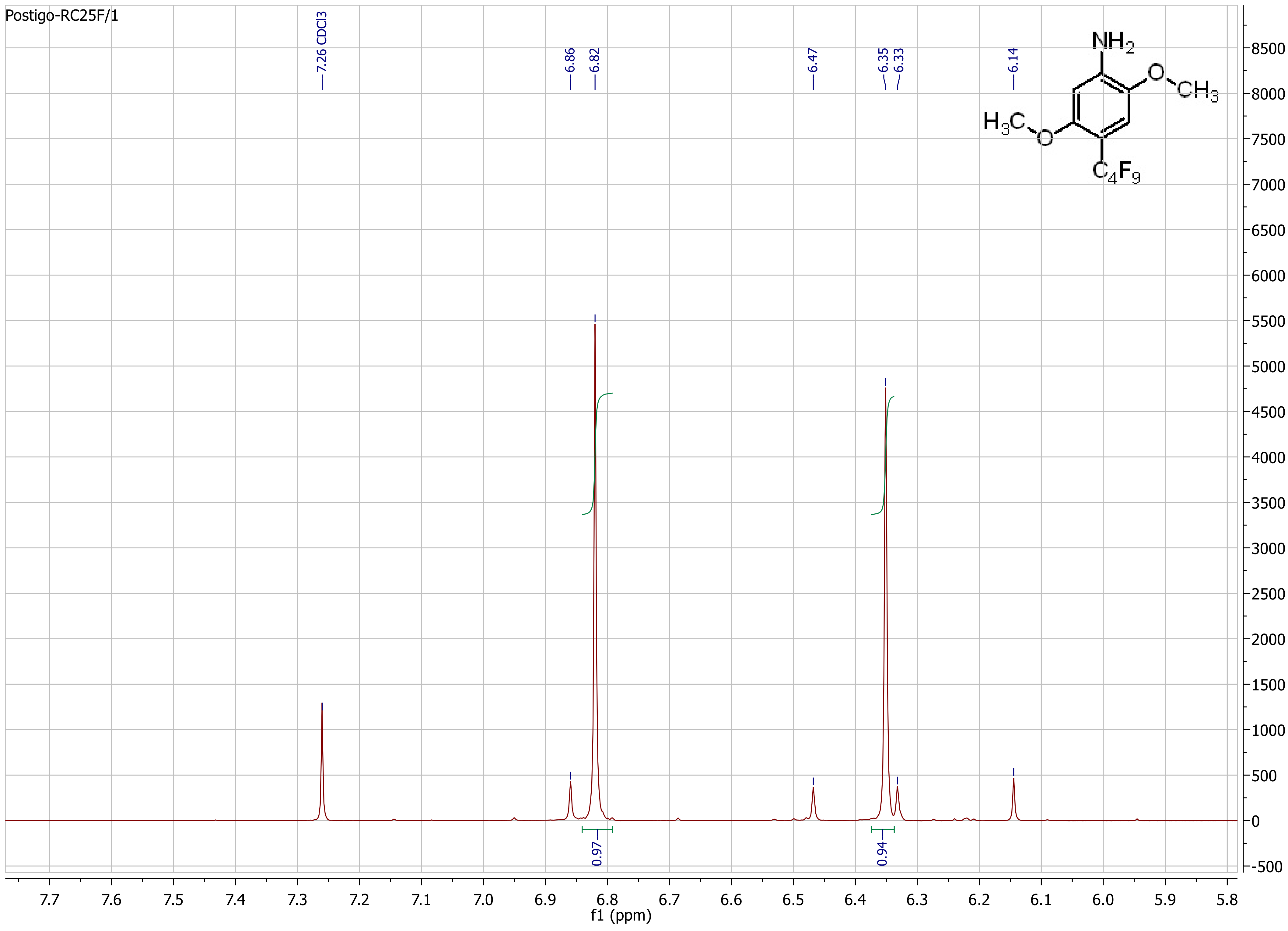
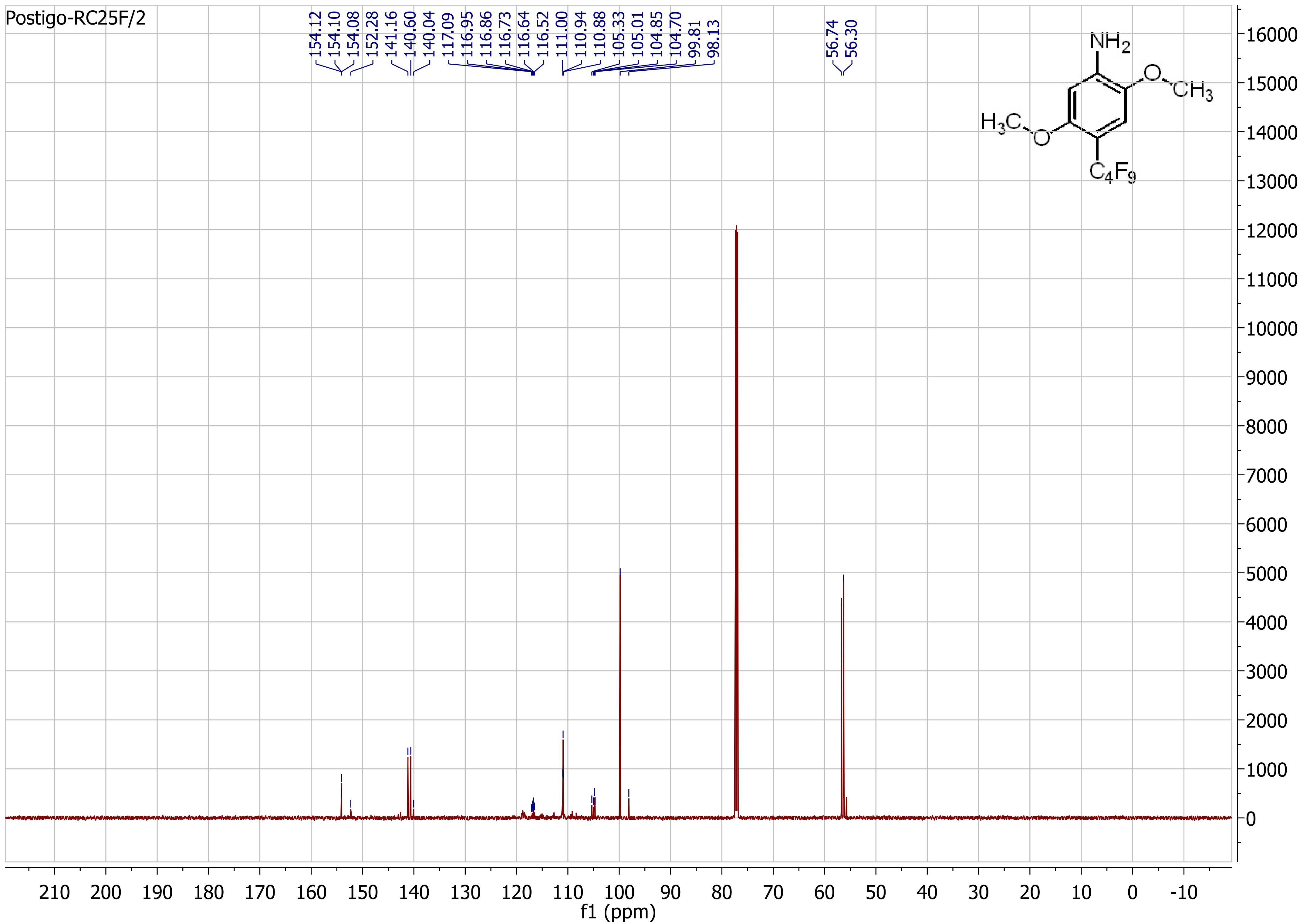
3.83
3.76
3.71
3.67
3.64
3.57
NH2
O
CH3
H3C
O
C4F9
1.96
3.00
2.90
0.25
0.23
0.25
0.23
f1 (ppm)


Postigo-RC25F/1
7.26 CDCl3
6.86
6.82
6.47
6.35
6.33
6.14
0.97
0.94
f1 (ppm)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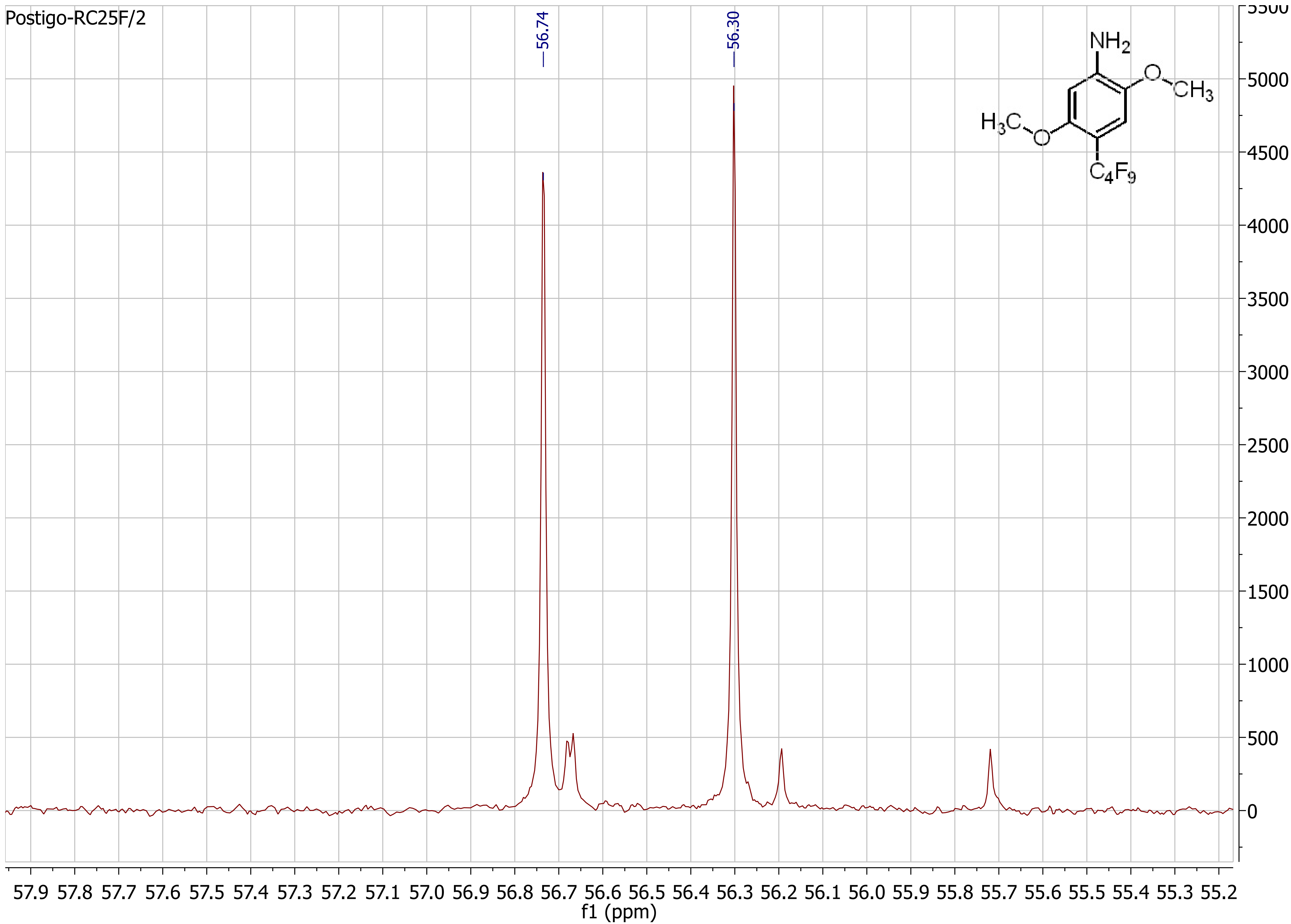
154.10
154.08
152.28
141.16
140.60
140.04
117.09
116.95
116.86
116.73
116.64
116.52
111.00
110.94
110.88
105.33
105.01
104.85
104.70
99.81
98.13
56.74
56.30
NH2
O
CH3
H3C
O
C4F9
f1 (ppm)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CH3
H3C
O
C4F9
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5000
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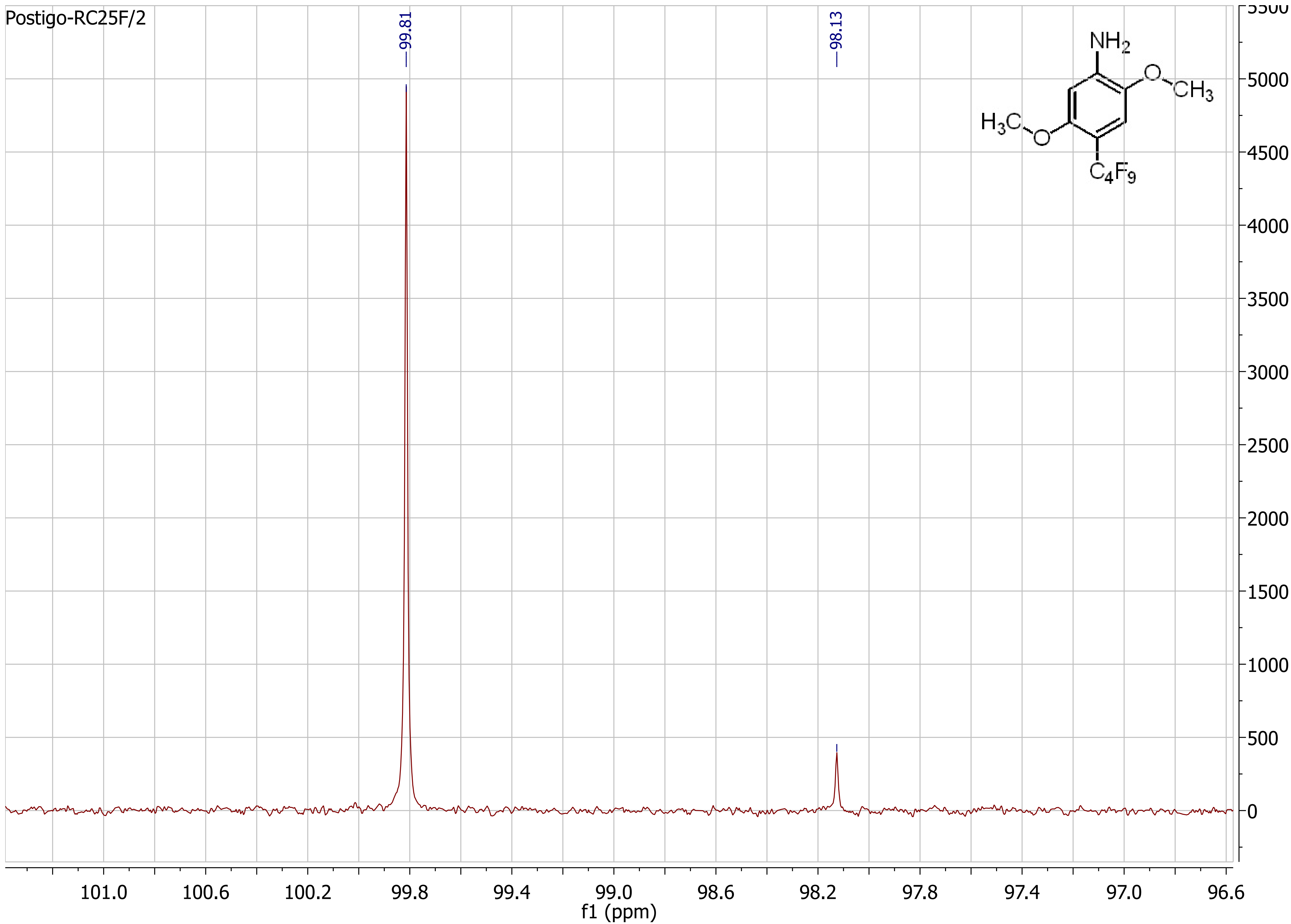
4000
3500
3000
2500
2000
1500
1000
500
0
57.9 57.8 57.7 57.6 57.5 57.4 57.3 57.2 57.1 57.0 56.9 56.8 56.7 56.6 56.5 56.4 56.3 56.2 56.1 56.0 55.9 55.8 55.7 55.6 55.5 55.4 55.3 55.2
f1 (ppm)



Postigo-RC25F/2
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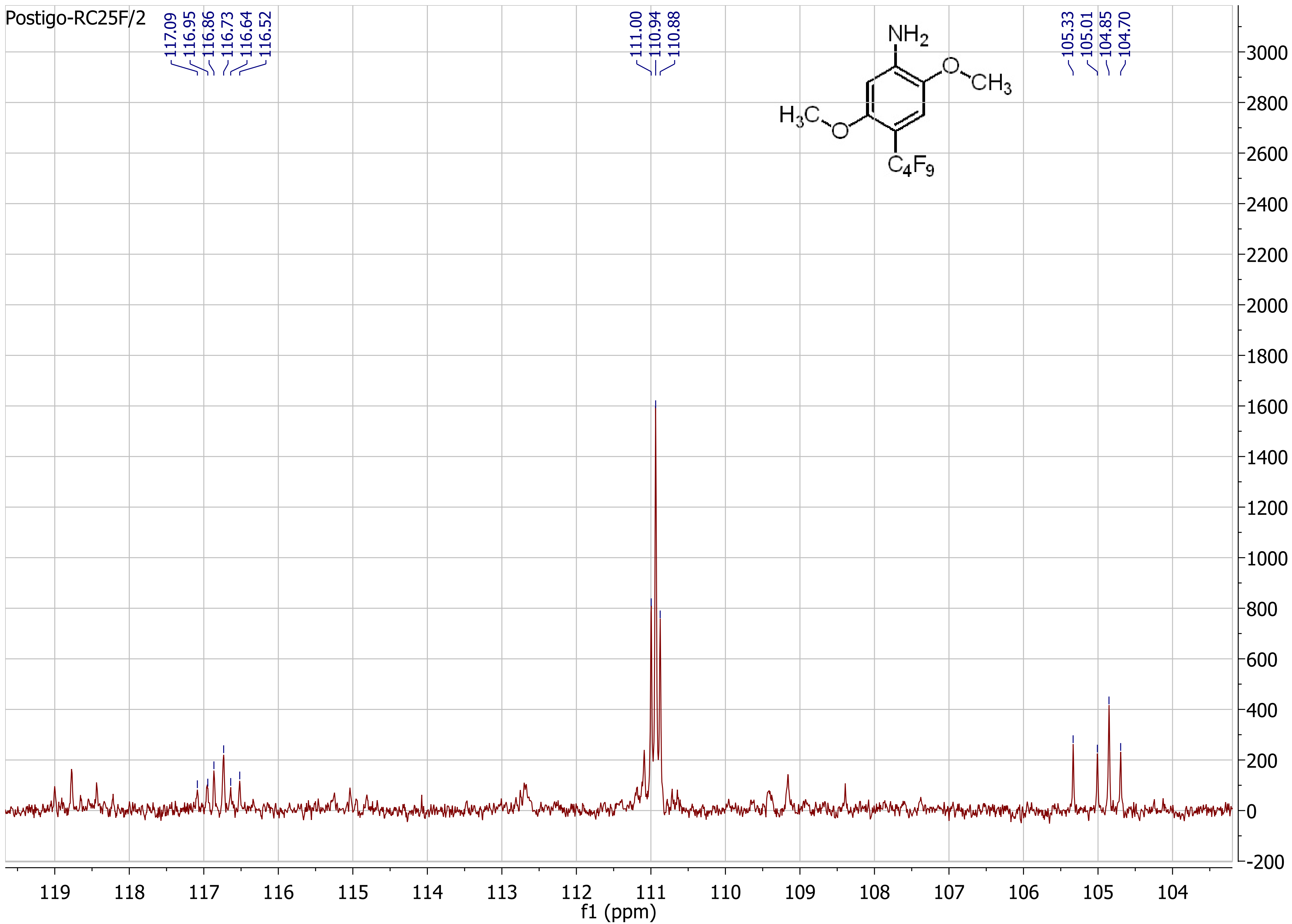
CH3
H3C
O
C4F9
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
101.0
100.6
100.2
99.8
99.4
99.0
98.6
98.2
97.8
97.4
97.0
96.6
f1 (ppm)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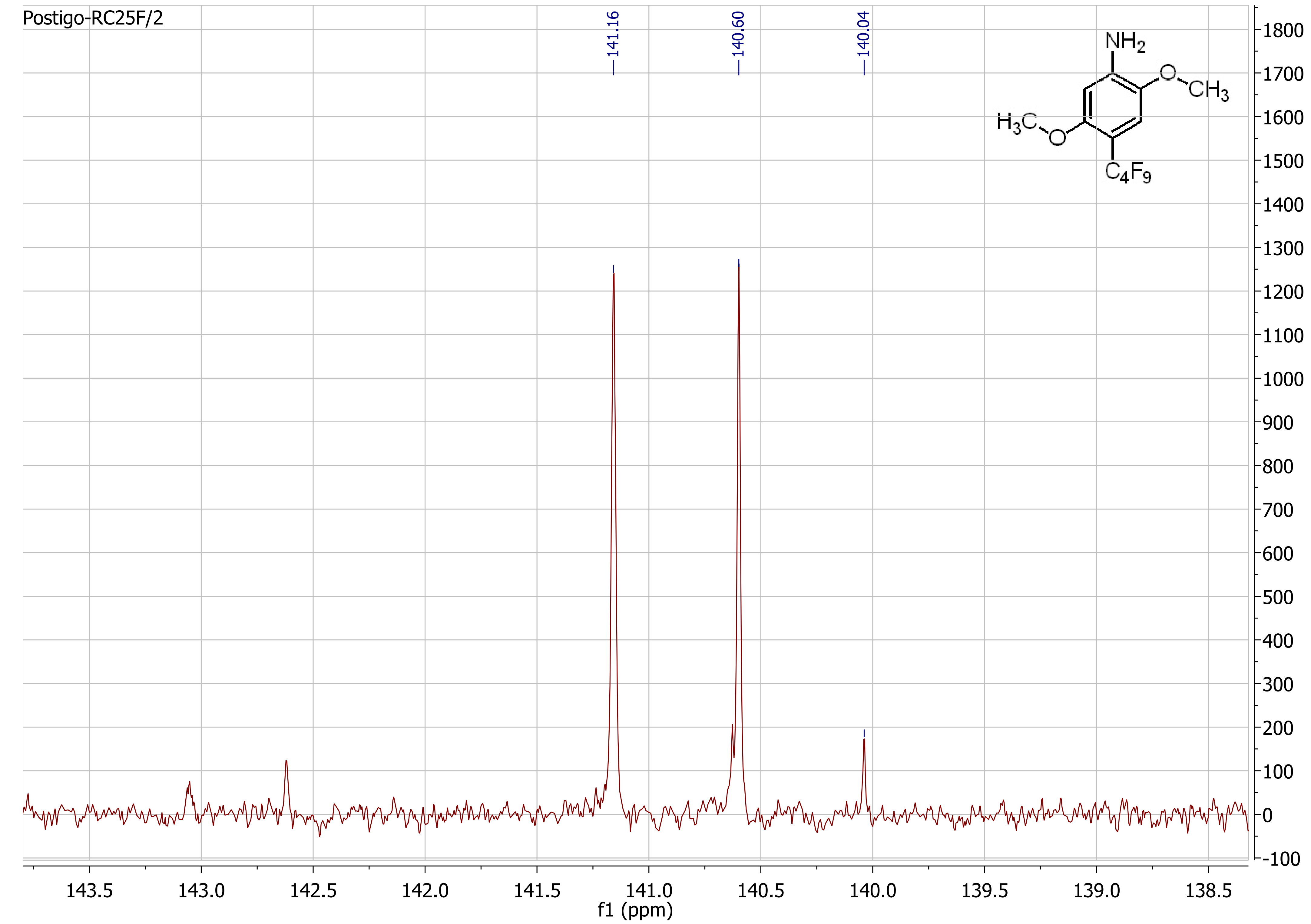
116.73
116.64
116.52
111.00
110.94
110.88
105.33
105.01
104.85
104.70
NH2
O
CH3
H3C
O
C4F9
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200
119
118
117
116
115
114
113
112
111
110
109
108
107
106
105
104
f1 (ppm)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140.04
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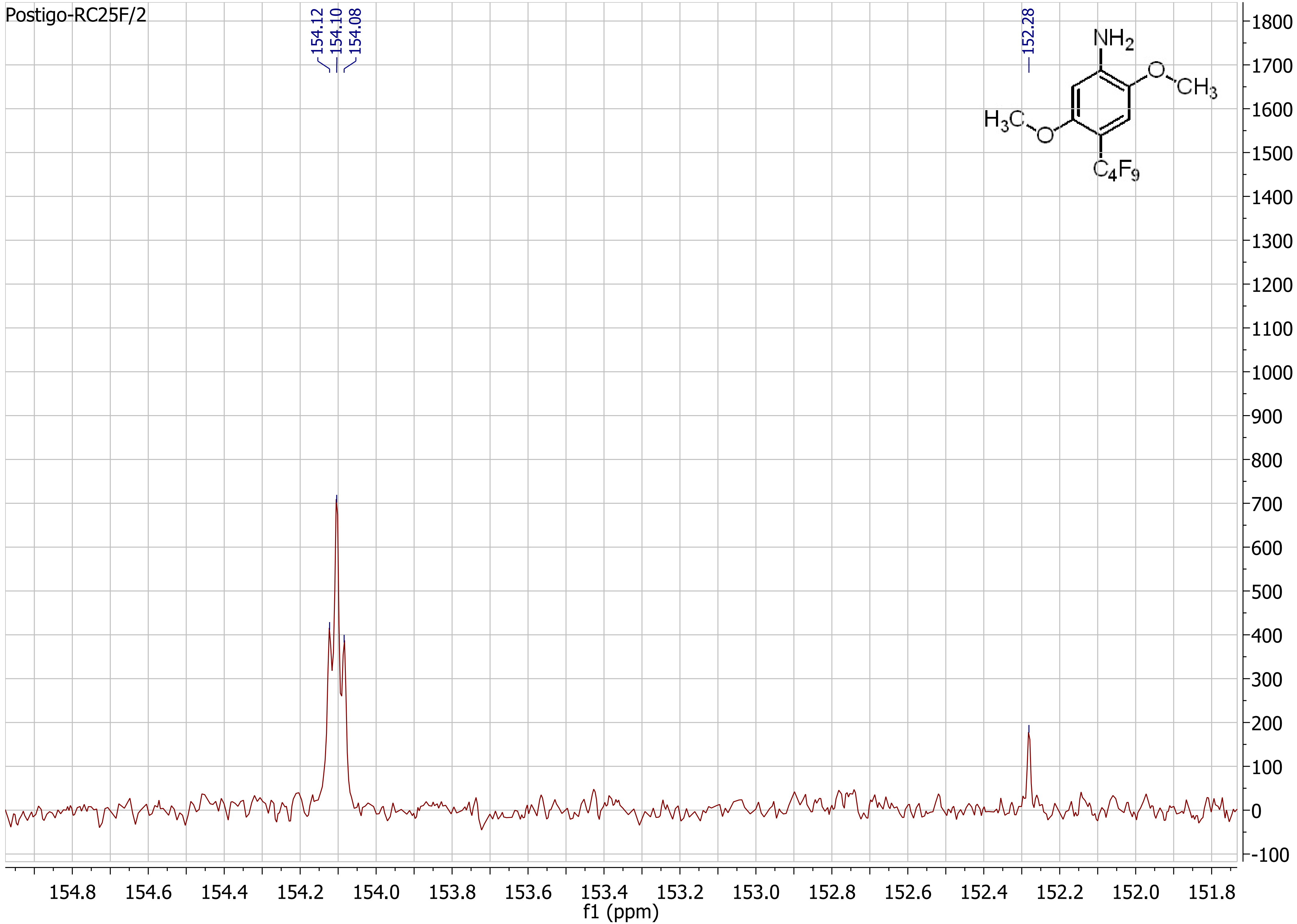
CH3
H3C
O
C4F9
f1 (ppm)


Postigo-RC25F/2
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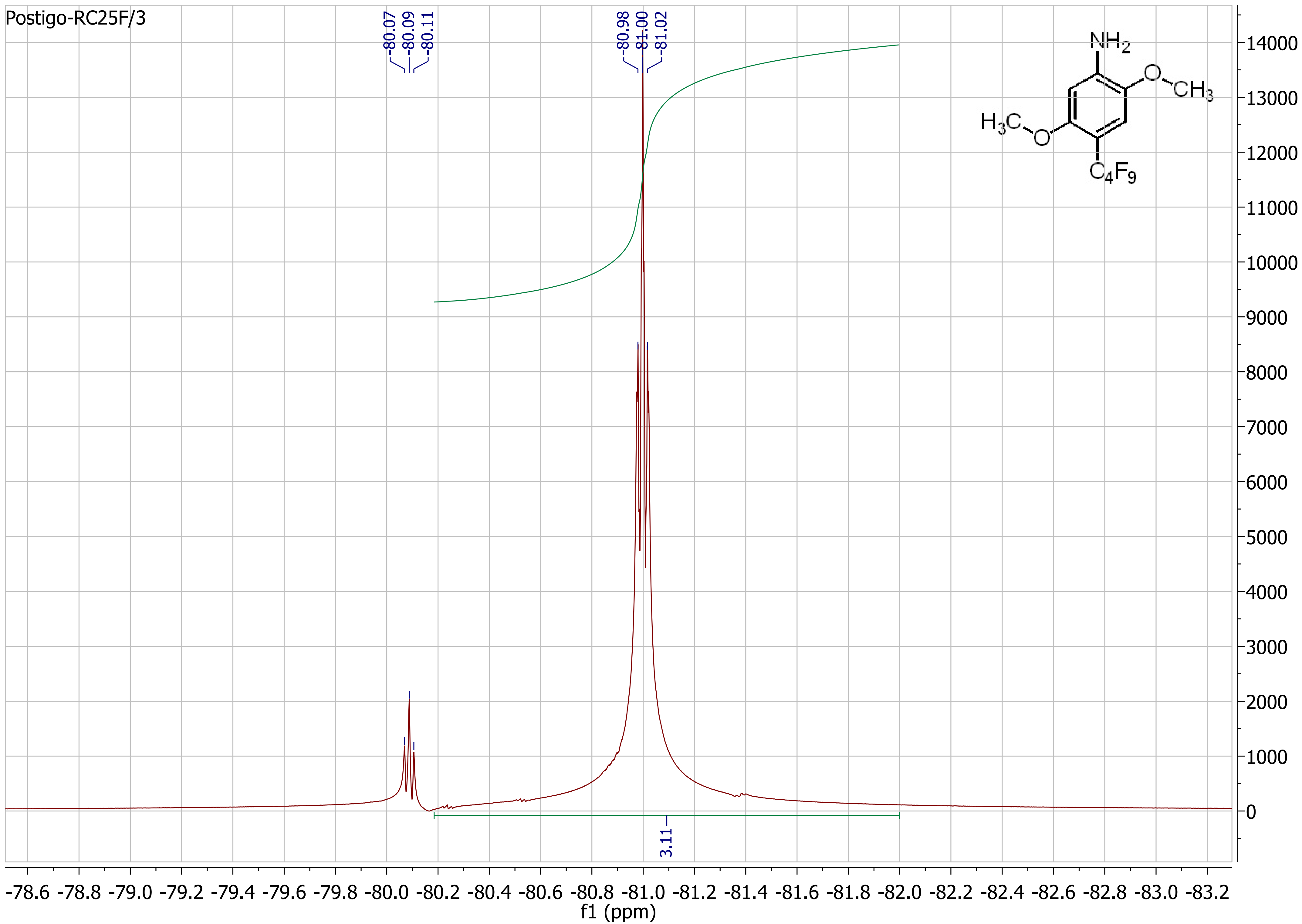
154.10
154.08
152.28
NH_2
CH_3
H_3C
O
O
C_4F_9
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100
154.8
154.6
154.4
154.2
154.0
153.8
153.6
153.4
153.2
153.0
152.8
152.6
152.4
152.2
152.0
151.8
f1 (ppm)



Postigo-RC25F/3
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-80.09
-80.11
-80.98
-81.00
-81.02
NH2
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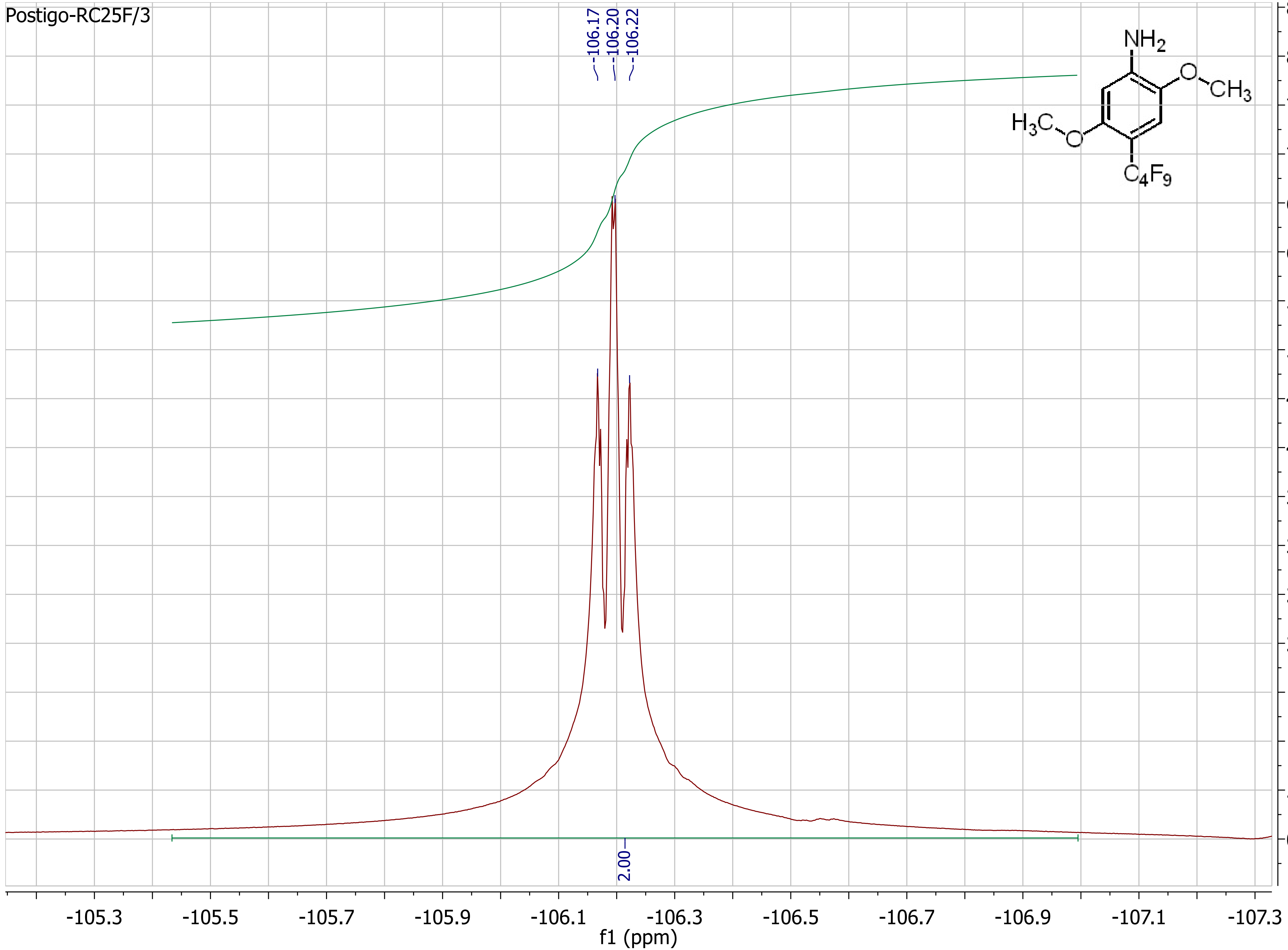
H3C
O
C4F9
3.11
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-78.6 -78.8 -79.0 -79.2 -79.4 -79.6 -79.8 -80.0 -80.2 -80.4 -80.6 -80.8 -81.0 -81.2 -81.4 -81.6 -81.8 -82.0 -82.2 -82.4 -82.6 -82.8 -83.0 -83.2
f1 (ppm)



Postigo-RC25F/3
-106.17
-106.20
-106.22
NH2
O
CH3
H3C
O
C4F9
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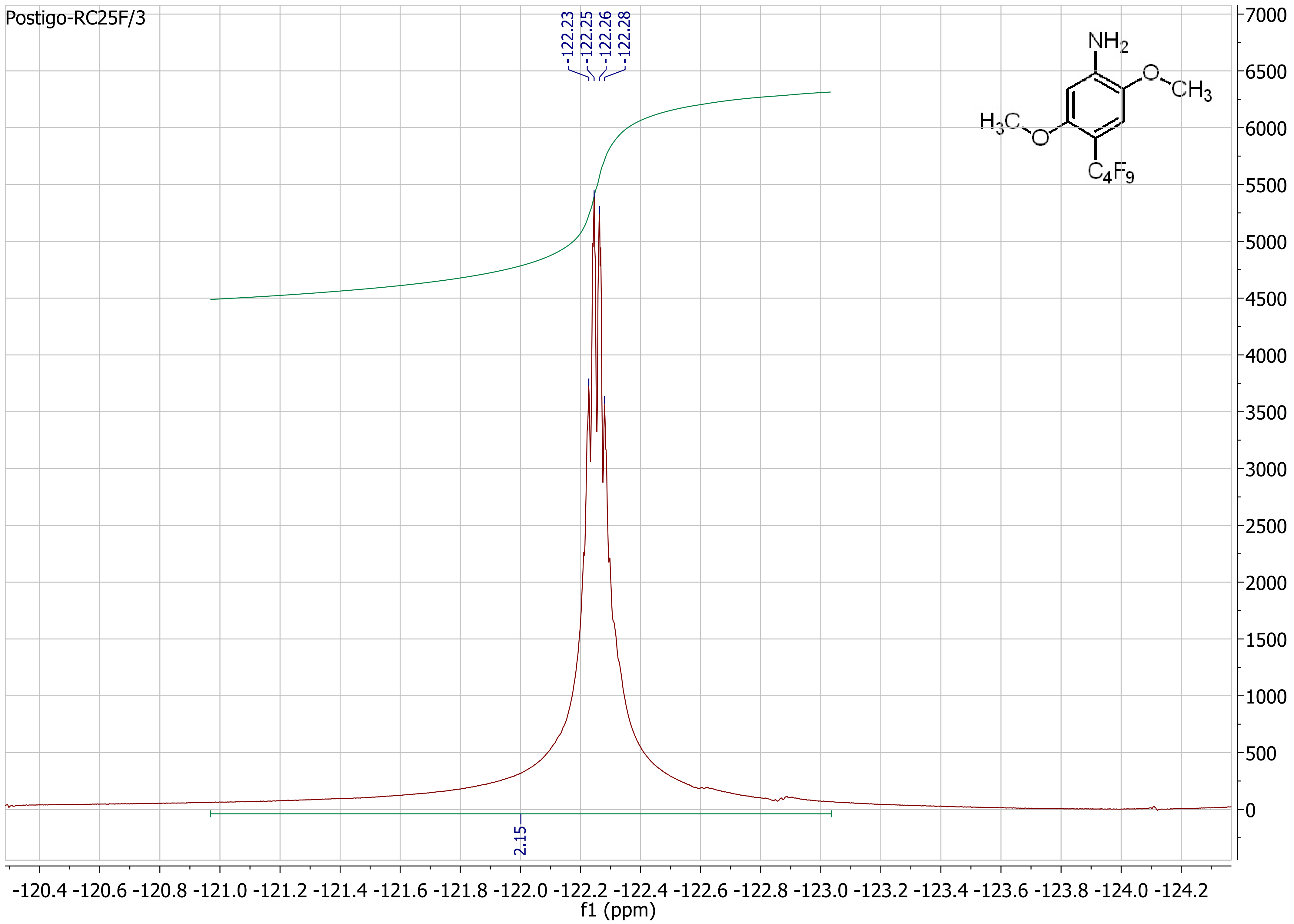
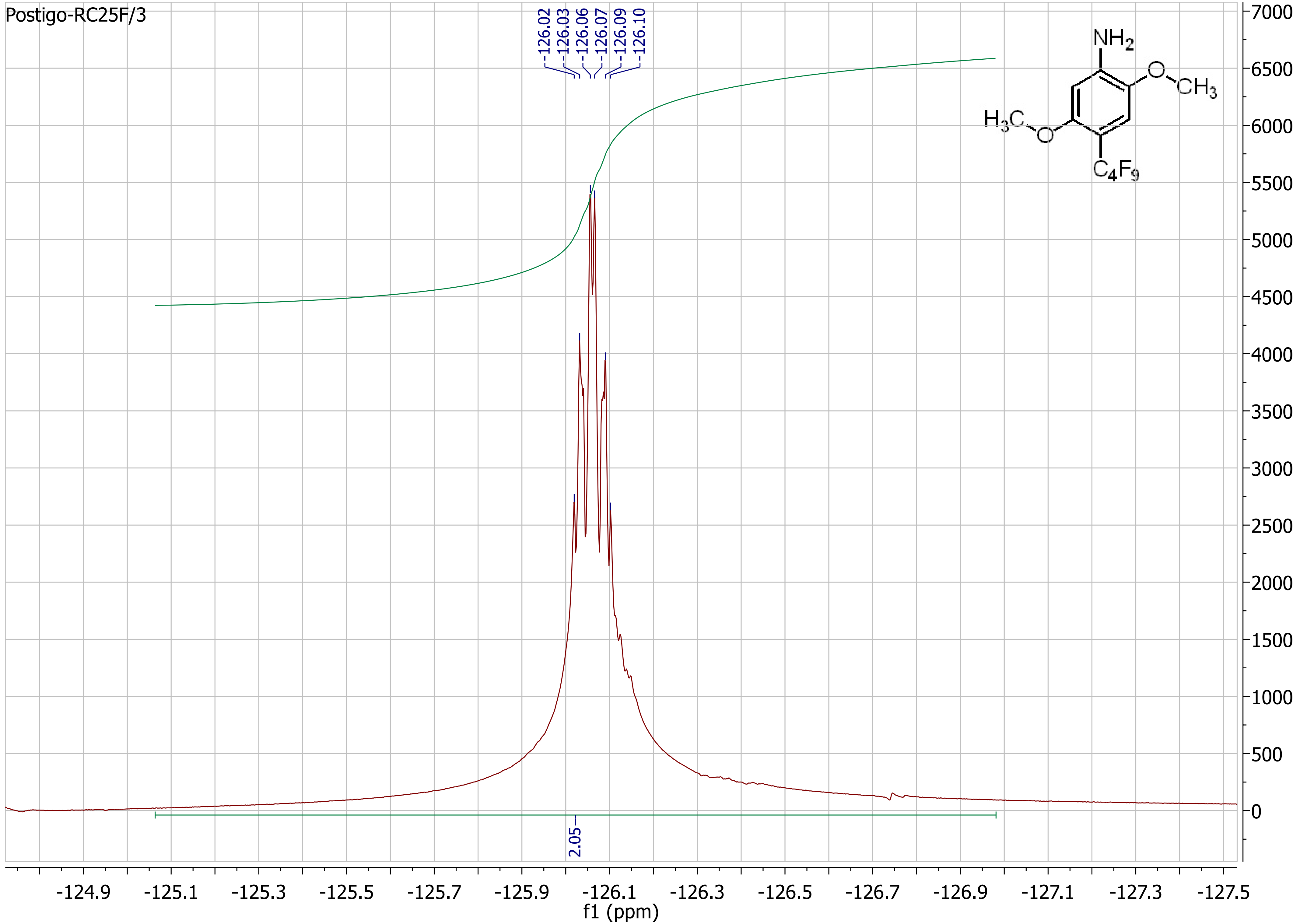
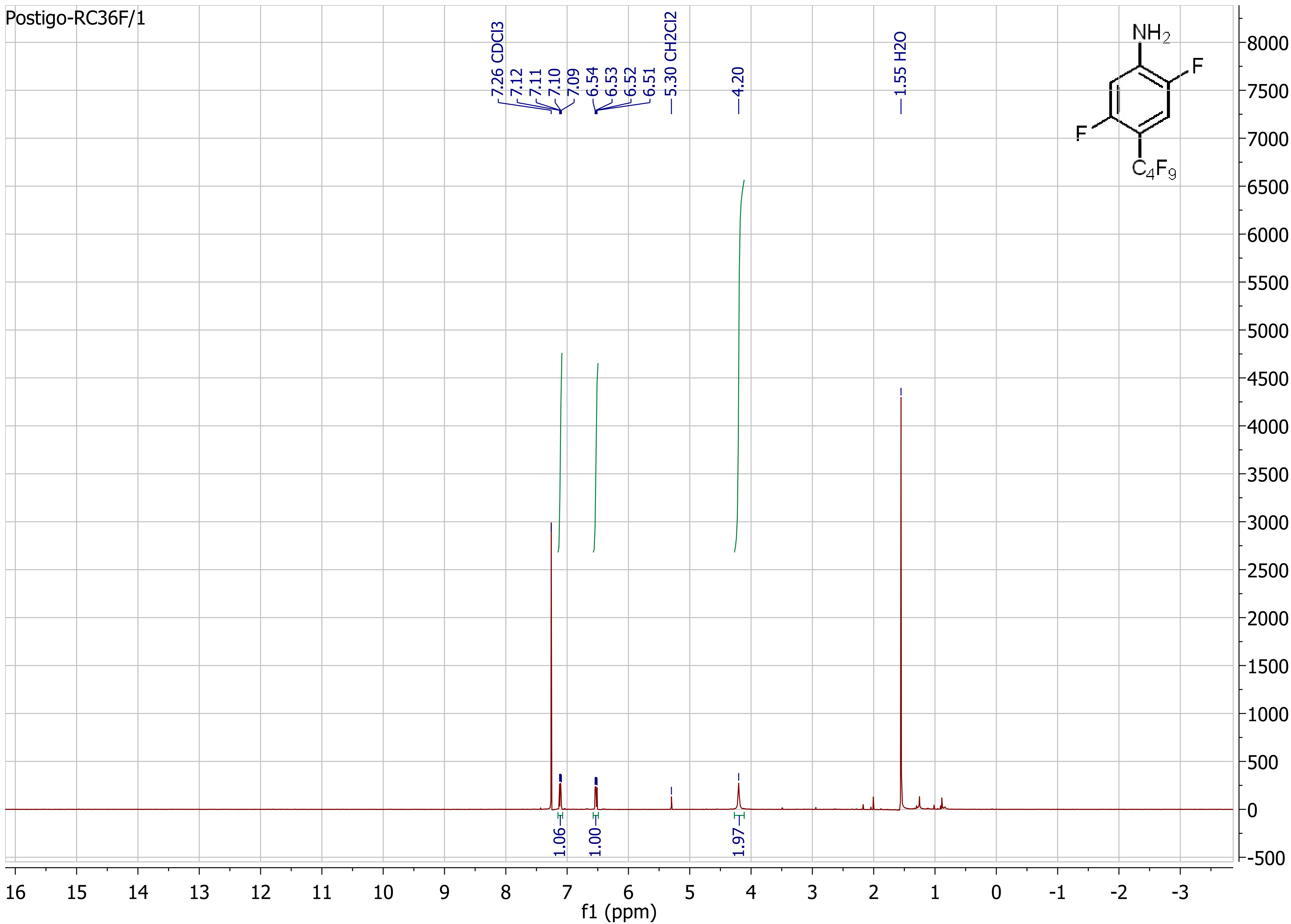
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-105.3
-105.5
-105.7
-105.9
-106.1
-106.3
-106.5
-106.7
-106.9
-107.1
-107.3
f1 (ppm)



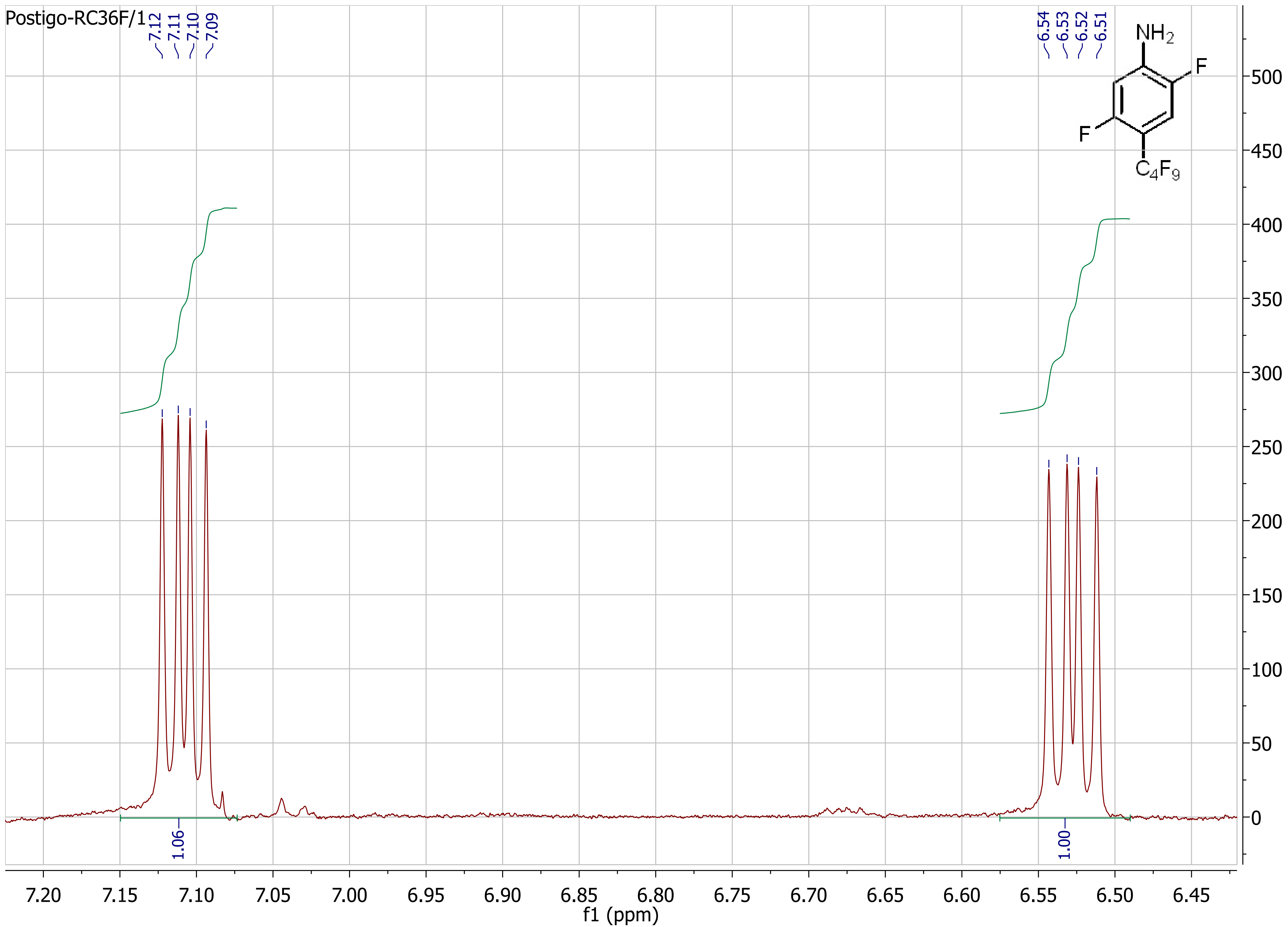
Postigo-RC25F/3
-122.23
-122.25
-122.26
-122.28
2.15
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-120.4 -120.6 -120.8 -121.0 -121.2 -121.4 -121.6 -121.8 -122.0 -122.2 -122.4 -122.6 -122.8 -123.0 -123.2 -123.4 -123.6 -123.8 -124.0 -124.2
f1 (ppm)
NH2
O
CH3
H3C
O
C4F9

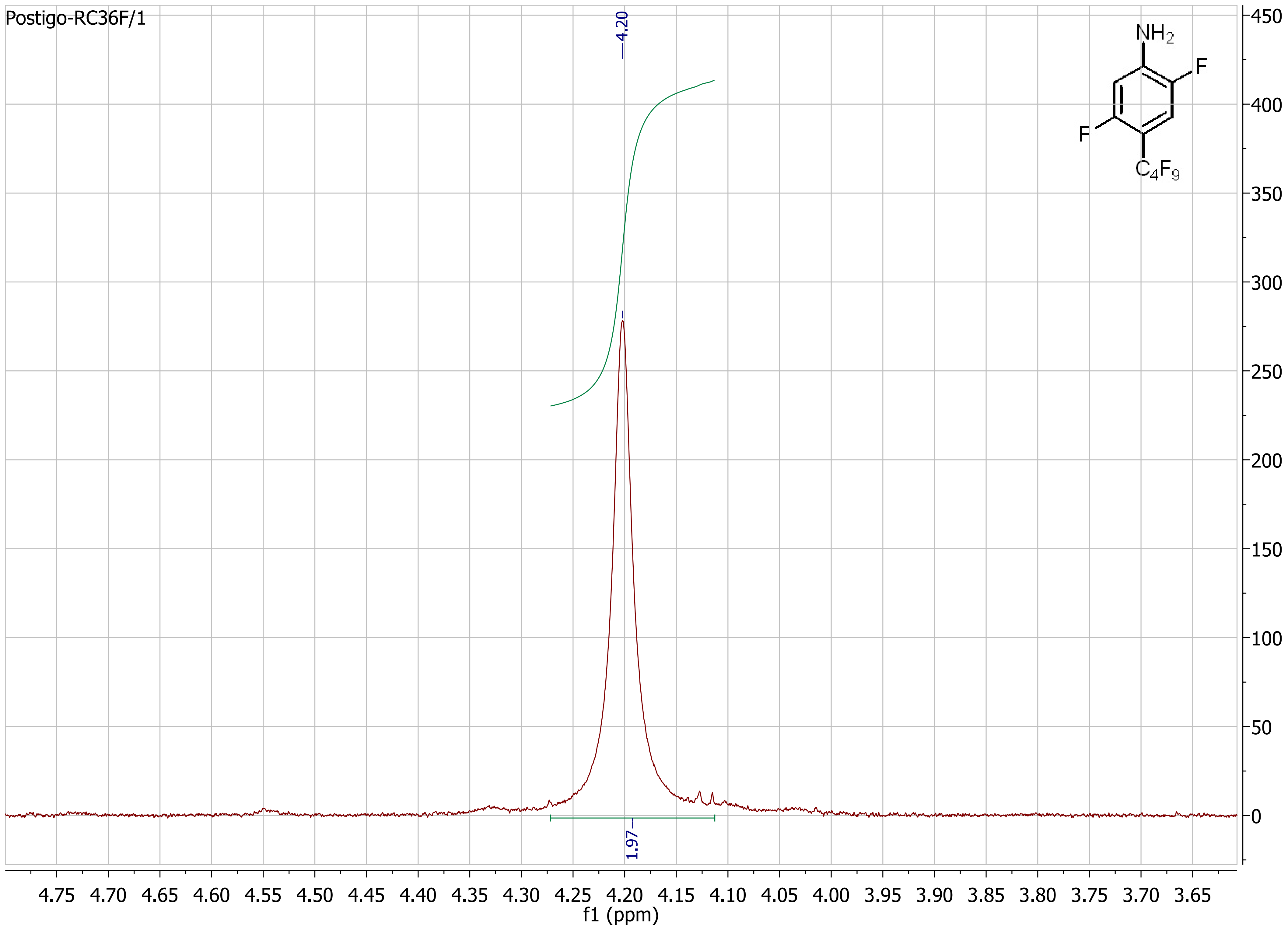


Postigo-RC25F/3
-126.02
-126.03
-126.06
-126.07
-126.09
-126.10
NH2
O
CH3
H3C
O
C4F9
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
2.05
-124.9
-125.1
-125.3
-125.5
-125.7
-125.9
-126.1
-126.3
-126.5
-126.7
-126.9
-127.1
-127.3
-127.5
f1 (ppm)

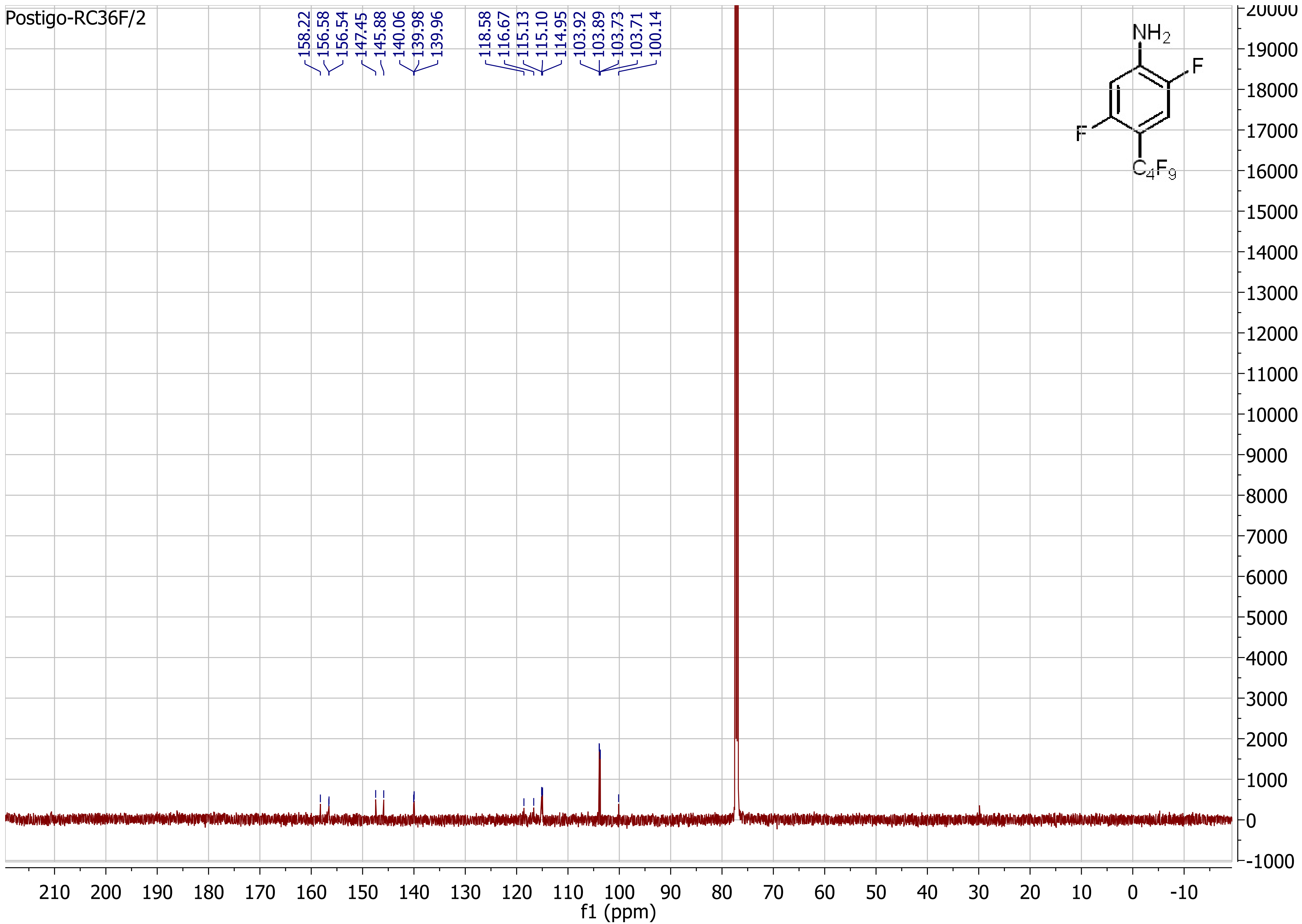


Postigo-RC36F/1
7.26 CDCl3
7.12
7.11
7.10
7.09
6.54
6.53
6.52
6.51
5.30 CH2Cl2
4.20
1.55 H2O
NH2
F
F
C4F9
1.06
1.00
1.97
f1 (ppm)

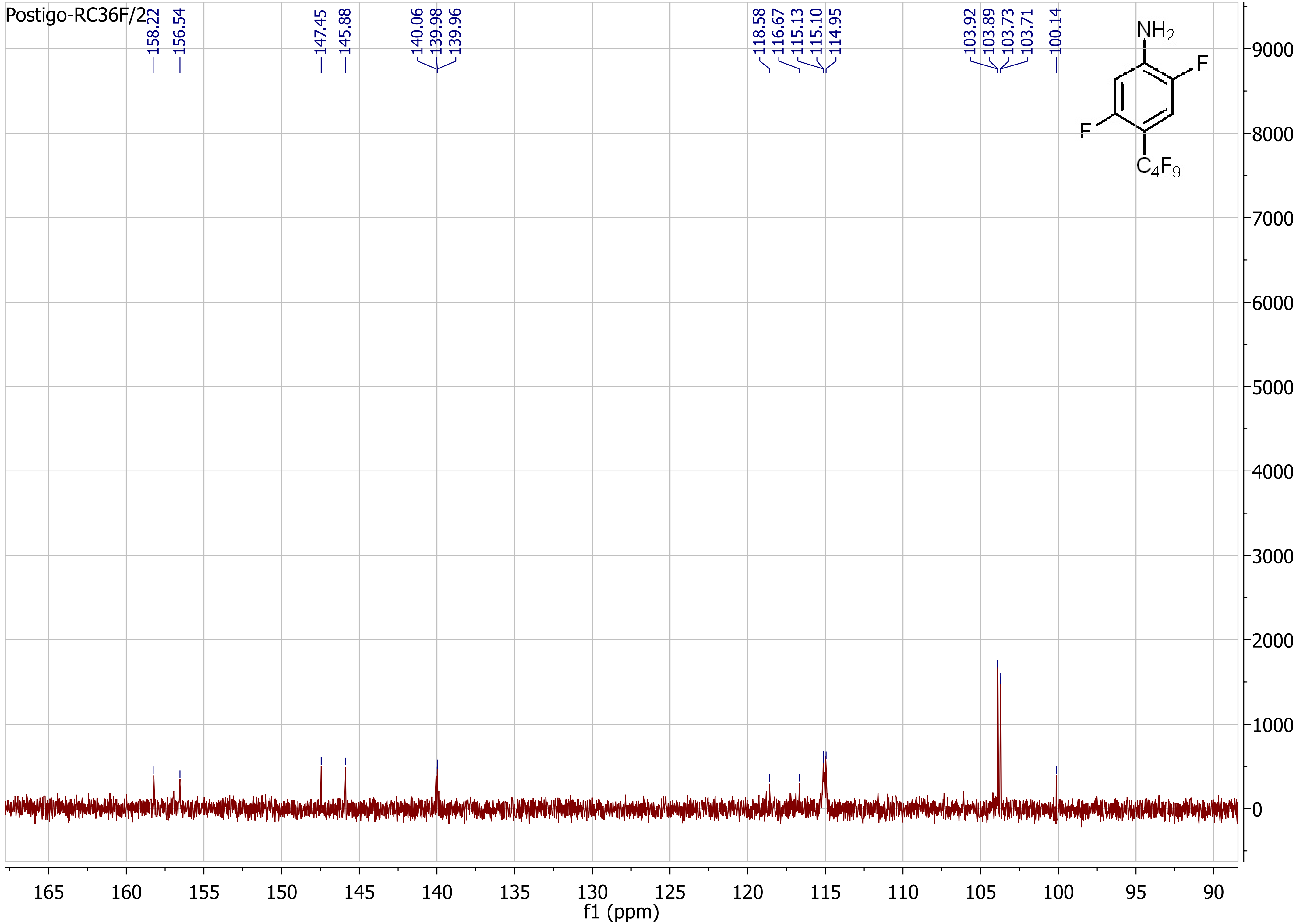

Postigo-RC36F/1
7.12
7.11
7.10
7.09
6.54
6.53
6.52
6.51
NH2
F
F
C4F9
1.06
1.00
f1 (ppm)

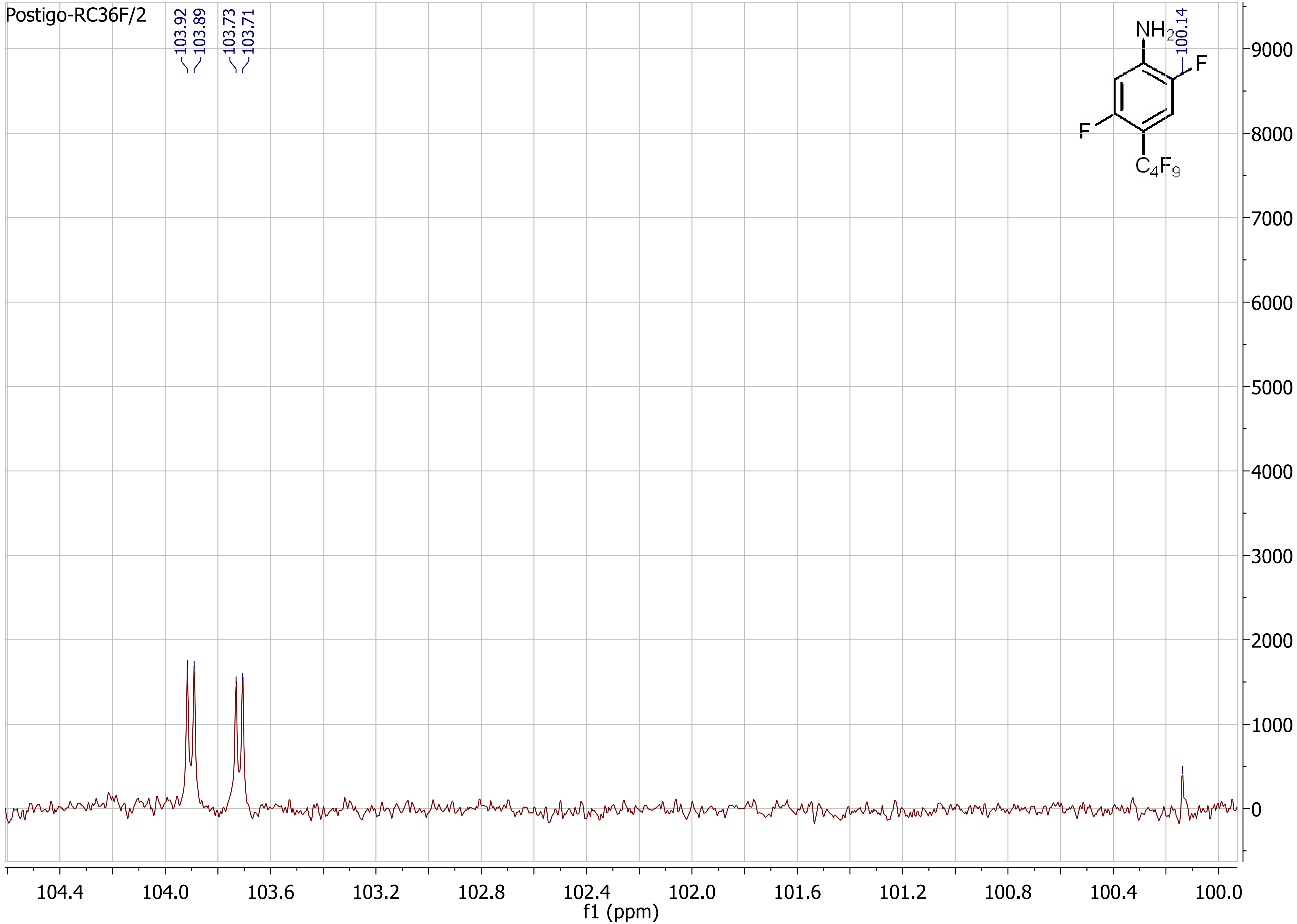


Postigo-RC36F/1
4.20
1.97
f1 (ppm)
NH2
F
F
C4F9

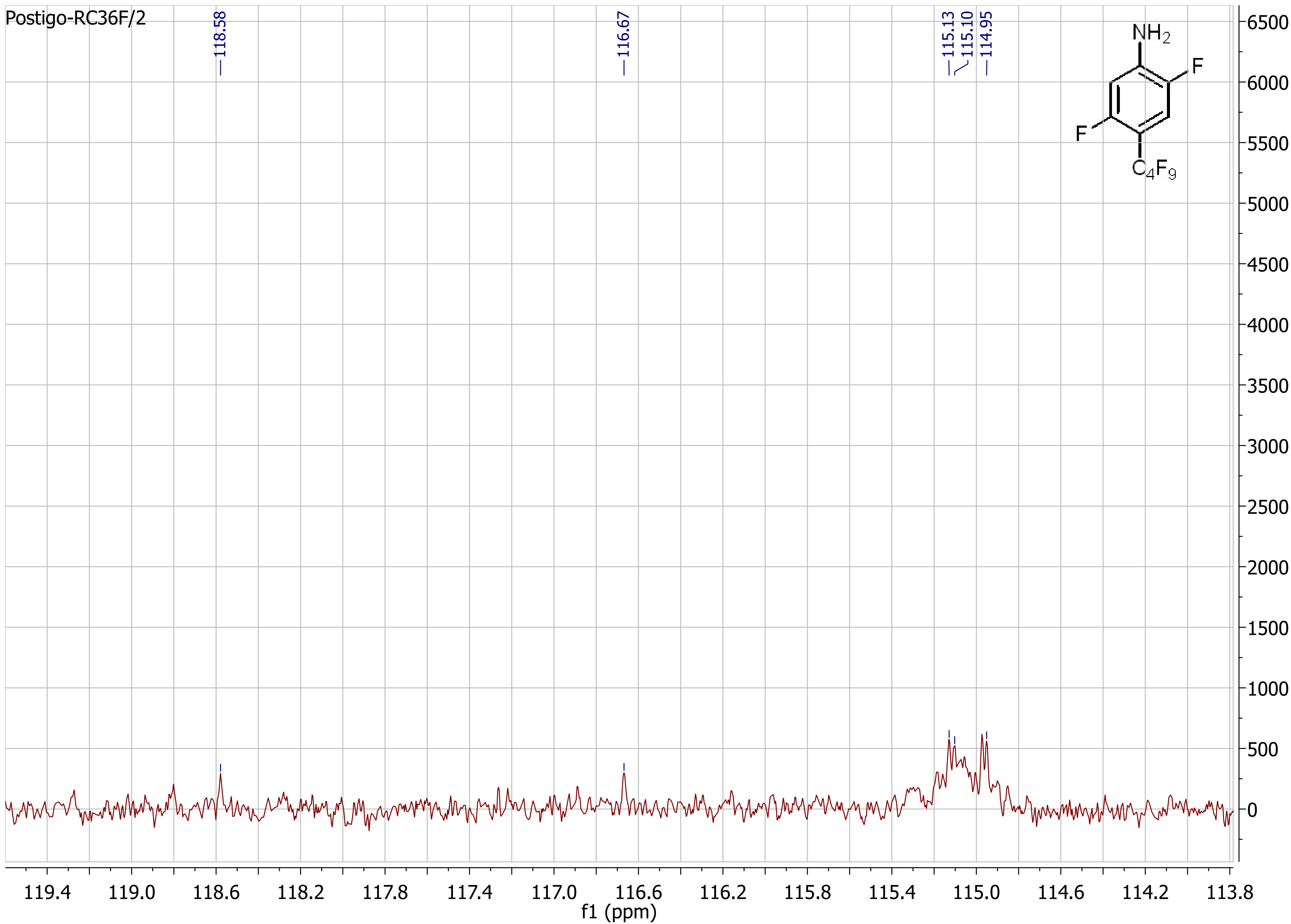


Postigo-RC36F/2
158.22
156.58
156.54
147.45
145.88
140.06
139.98
139.96
118.58
116.67
115.13
115.10
114.95
103.92
103.89
103.73
103.71
100.14
NH2
F
F
C4F9
f1 (ppm)

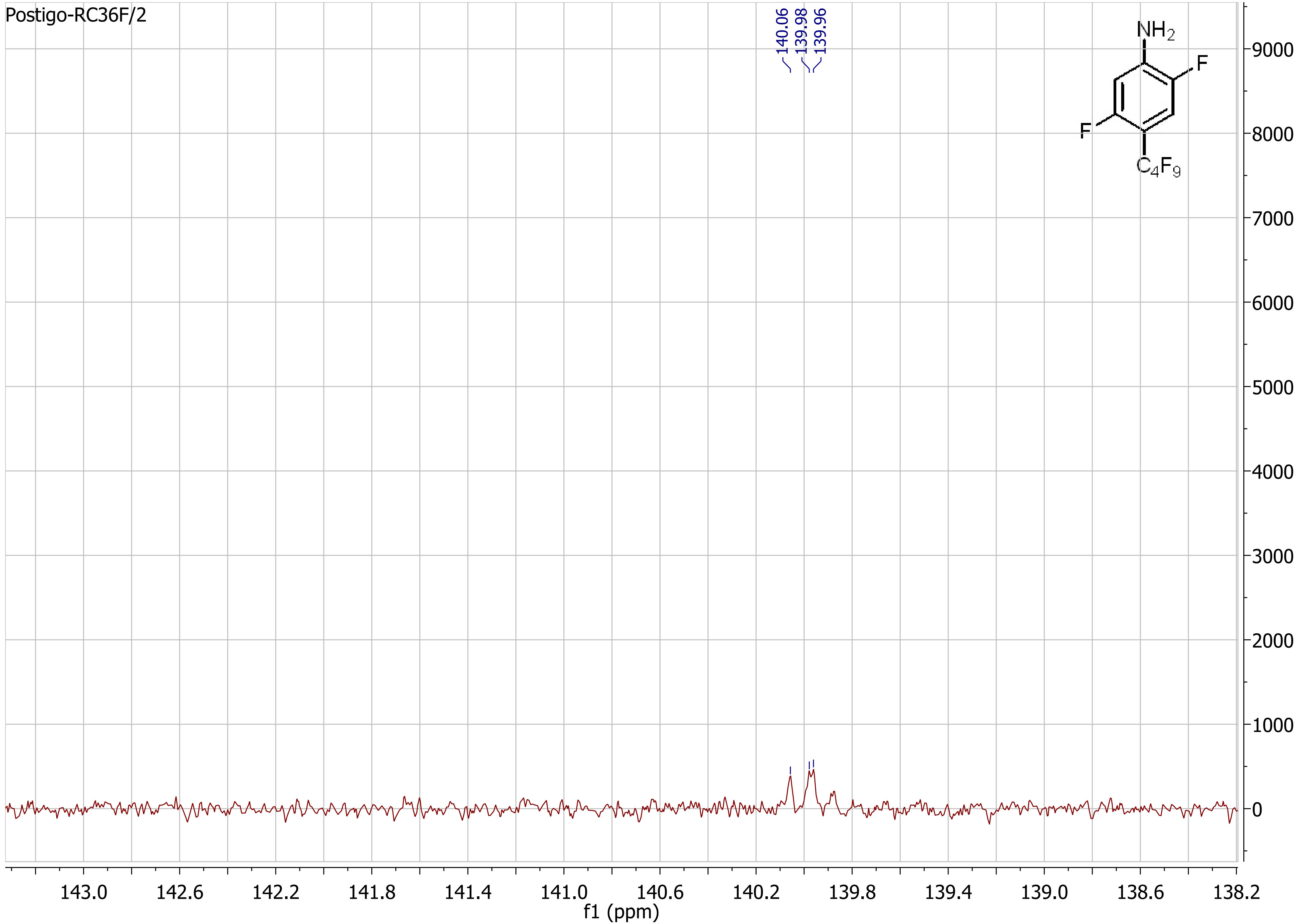

Postigo-RC36F/2
158.22
156.54
147.45
145.88
140.06
139.98
139.96
118.58
116.67
115.13
115.10
114.95
103.92
103.89
103.73
103.71
100.14
NH2
F
F
C4F9
f1 (ppm)



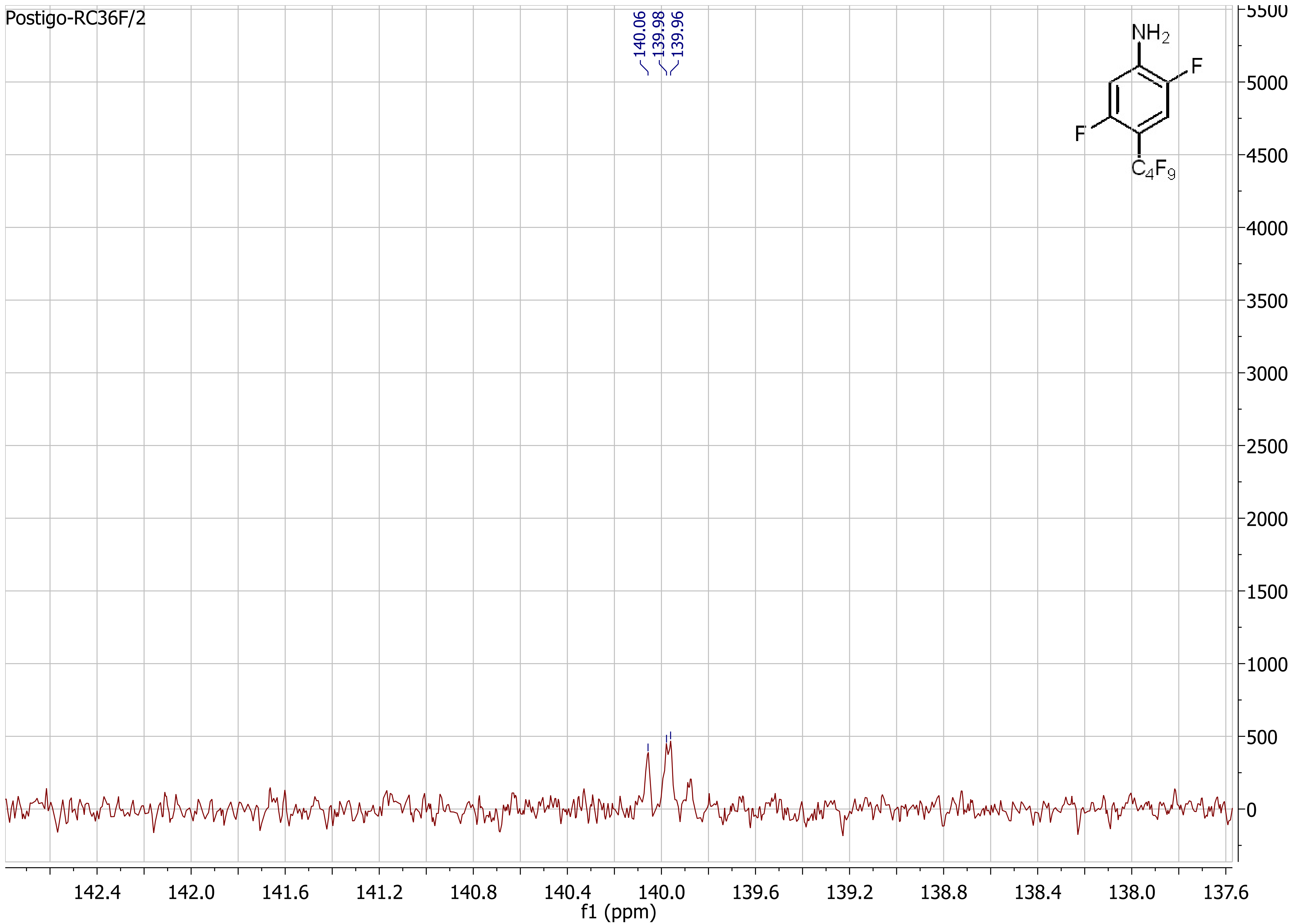
Postigo-RC36F/2
103.92
103.89
103.73
103.71
100.14
NH2
F
F
C4F9
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
104.4
104.0
103.6
103.2
102.8
102.4
102.0
101.6
101.2
100.8
100.4
100.0
f1 (ppm)

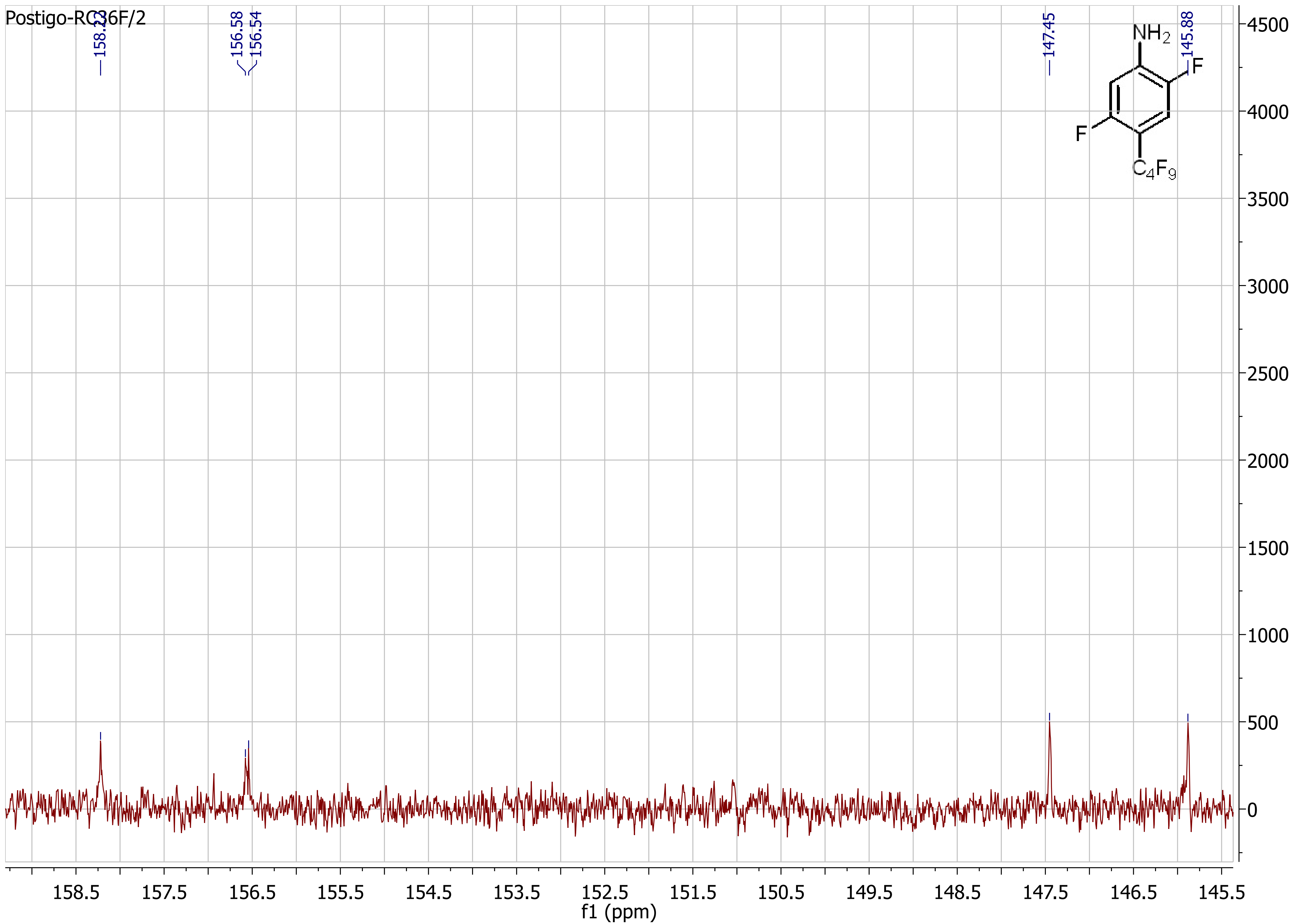


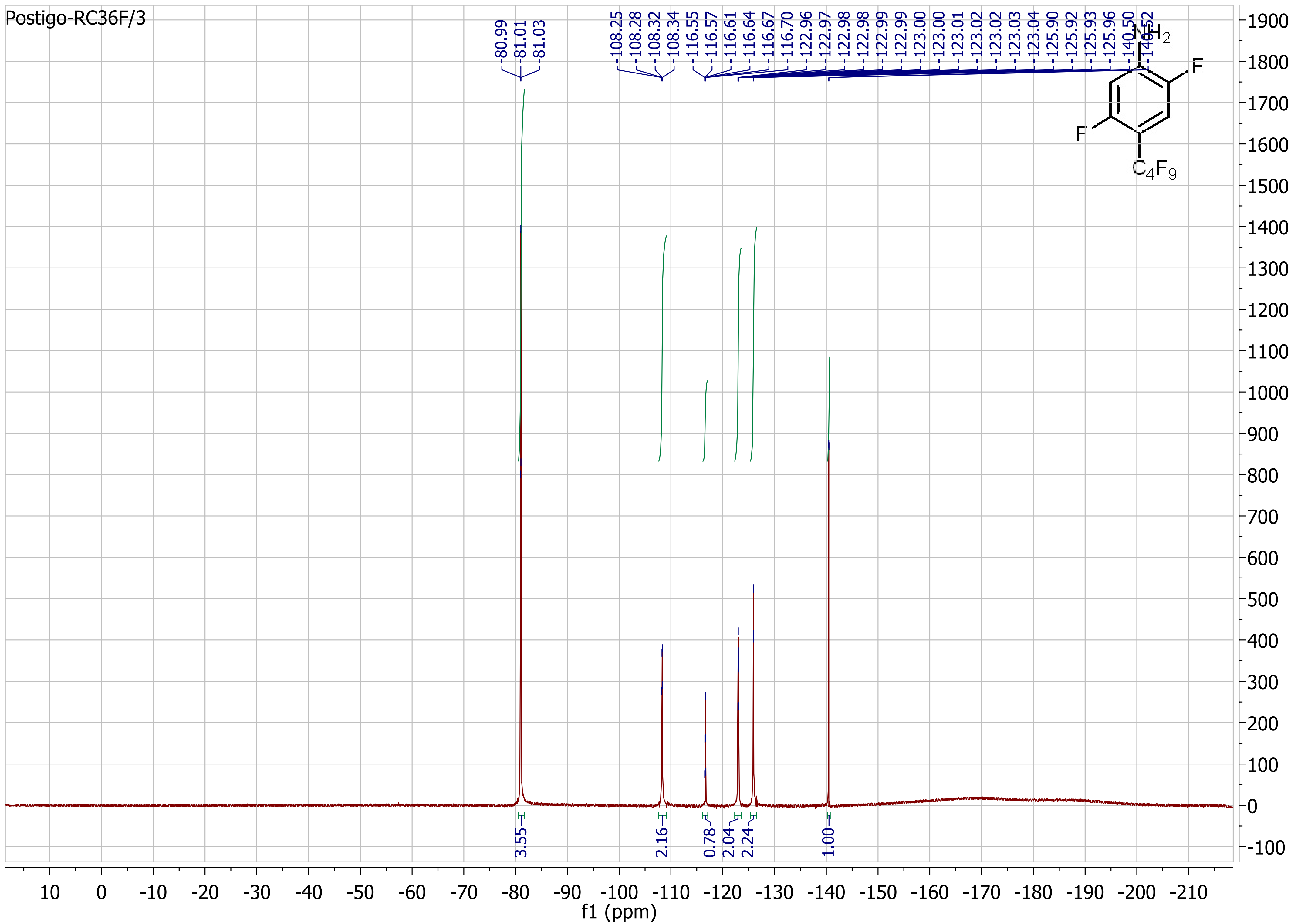
Postigo-RC36F/2
118.58
116.67
115.13
115.10
114.95
NH2
F
F
C4F9
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
119.4
119.0
118.6
118.2
117.8
117.4
117.0
116.6
116.2
115.8
115.4
115.0
114.6
114.2
113.8
f1 (ppm)



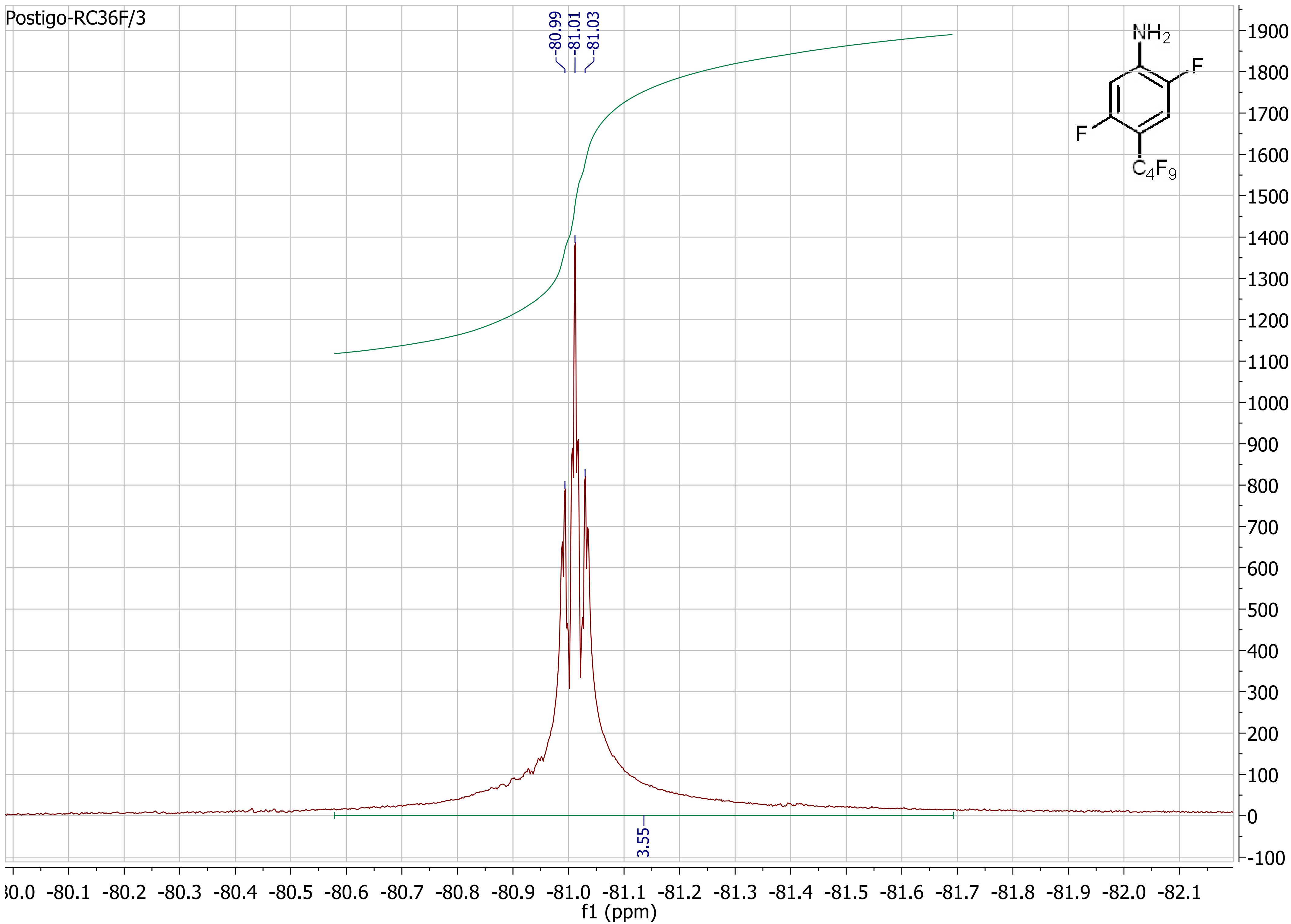
Postigo-RC36F/2
140.06
139.98
139.96
NH2
F
F
C4F9
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
143.0
142.6
142.2
141.8
141.4
141.0
140.6
140.2
139.8
139.4
139.0
138.6
138.2
f1 (ppm)

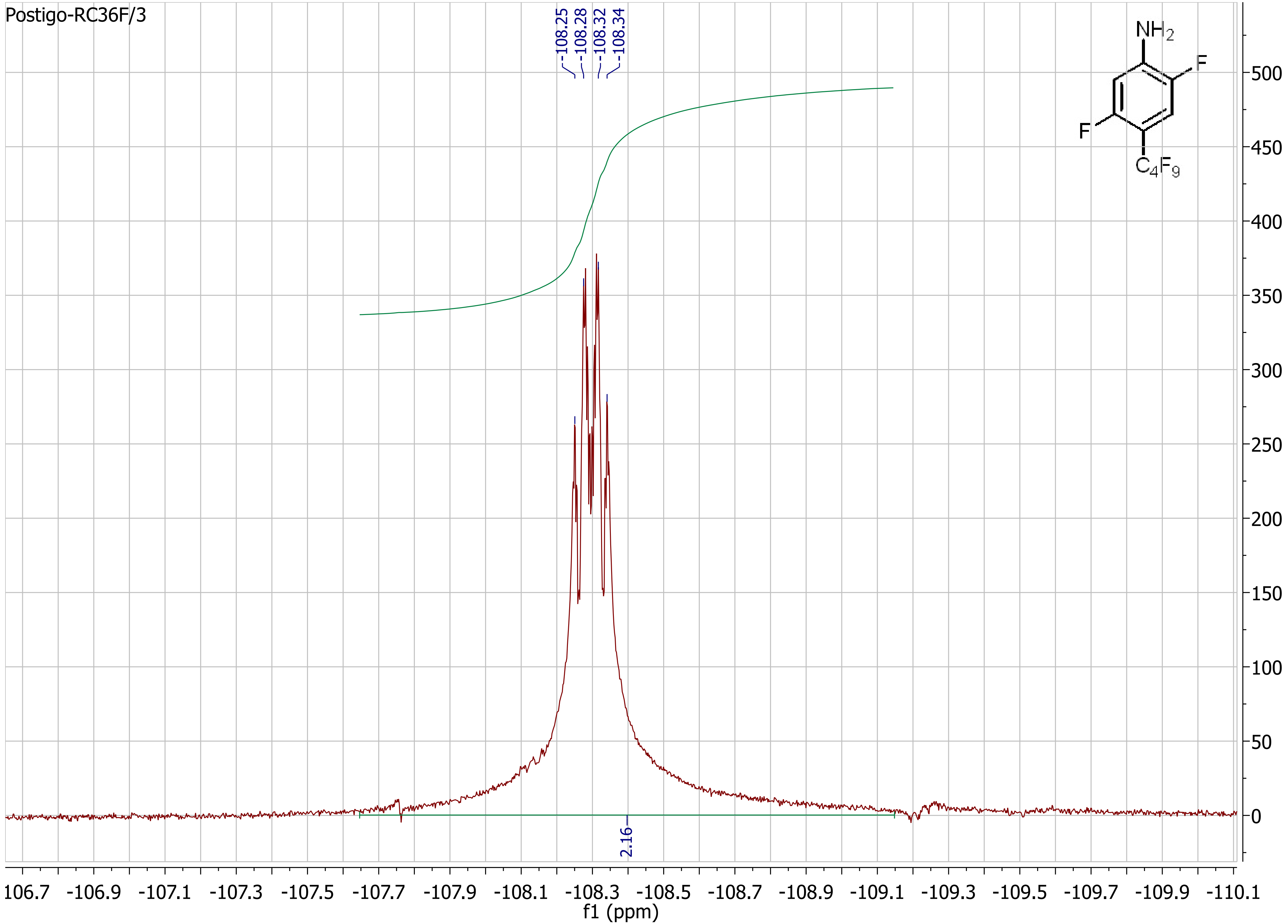

Postigo-RC36F/2
140.06
139.98
139.96
NH2
F
F
C4F9
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
142.4
142.0
141.6
141.2
140.8
140.4
140.0
139.6
139.2
138.8
138.4
138.0
137.6
f1 (ppm)


Postigo-RC36F/2
158.23
156.58
156.54
147.45
145.88
NH2
F
F
C4F9
4500
4000
3500
3000
2500
2000
1500
1000
500
0
158.5
157.5
156.5
155.5
154.5
153.5
152.5
151.5
150.5
149.5
148.5
147.5
146.5
145.5
f1 (ppm)

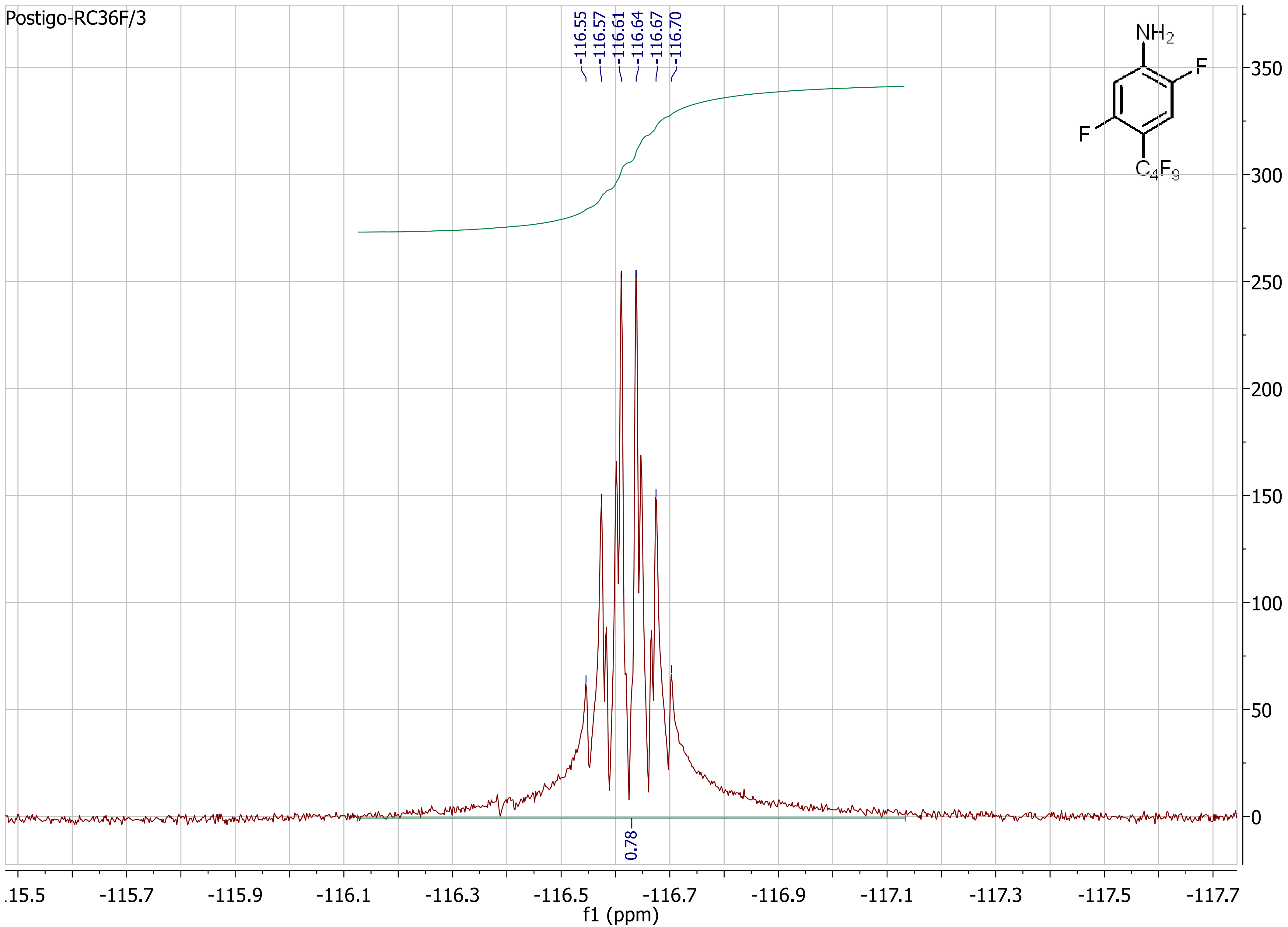


Postigo-RC36F/3
-80.99
-81.01
-81.03
-108.25
-108.28
-108.32
-108.34
-116.55
-116.57
-116.61
-116.64
-116.67
-116.70
-122.96
-122.97
-122.98
-122.98
-122.99
-122.99
-123.00
-123.00
-123.01
-123.02
-123.02
-123.03
-123.04
-125.90
-125.92
-125.93
-125.96
-140.50
-140.52
NH2
F
F
C4F9
3.55
2.16
0.78
2.04
2.24
1.00
f1 (ppm)

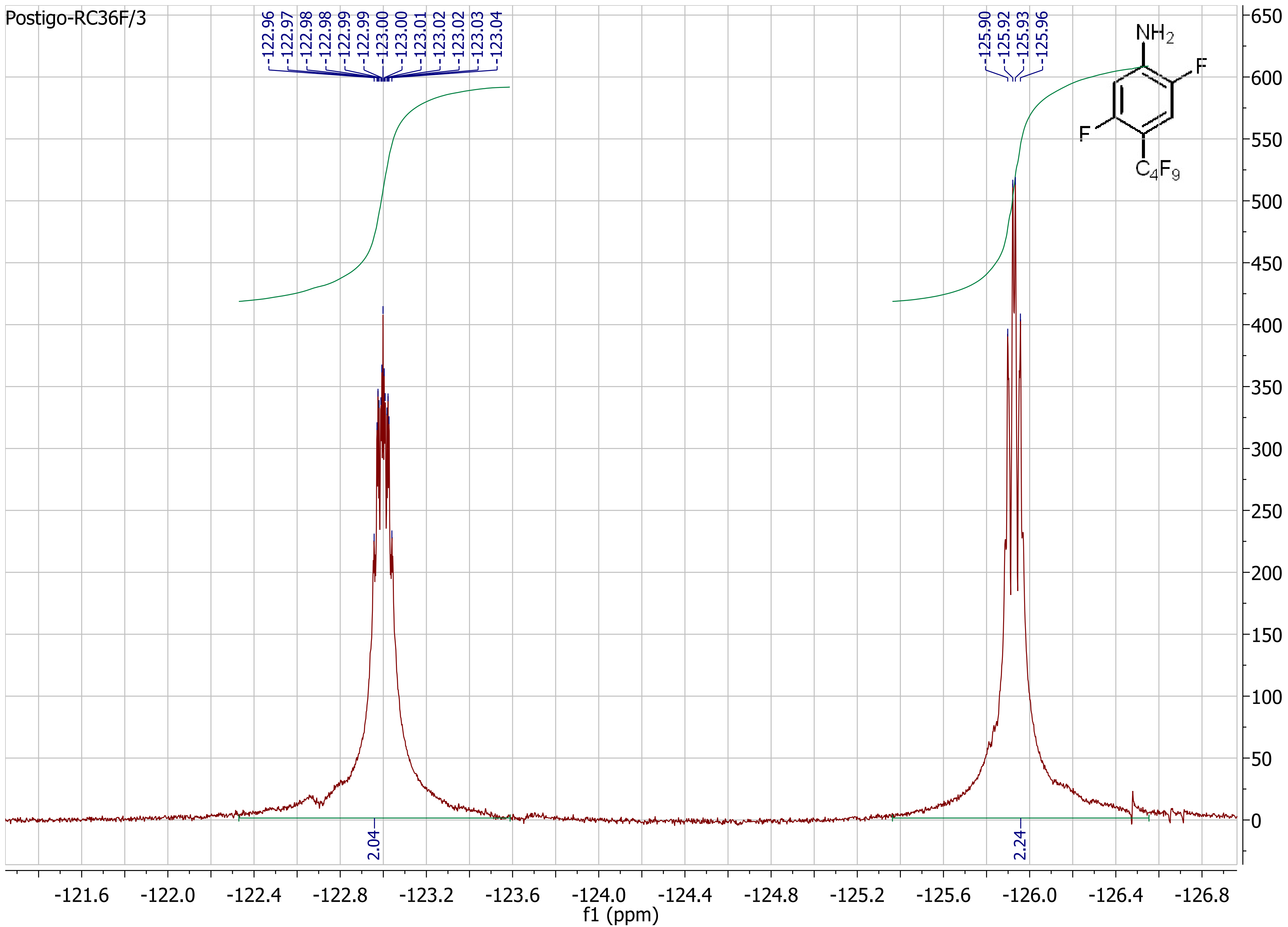

Postigo-RC36F/3
-80.99
-81.01
-81.03
NH2
F
F
C4F9
3.55
f1 (ppm)

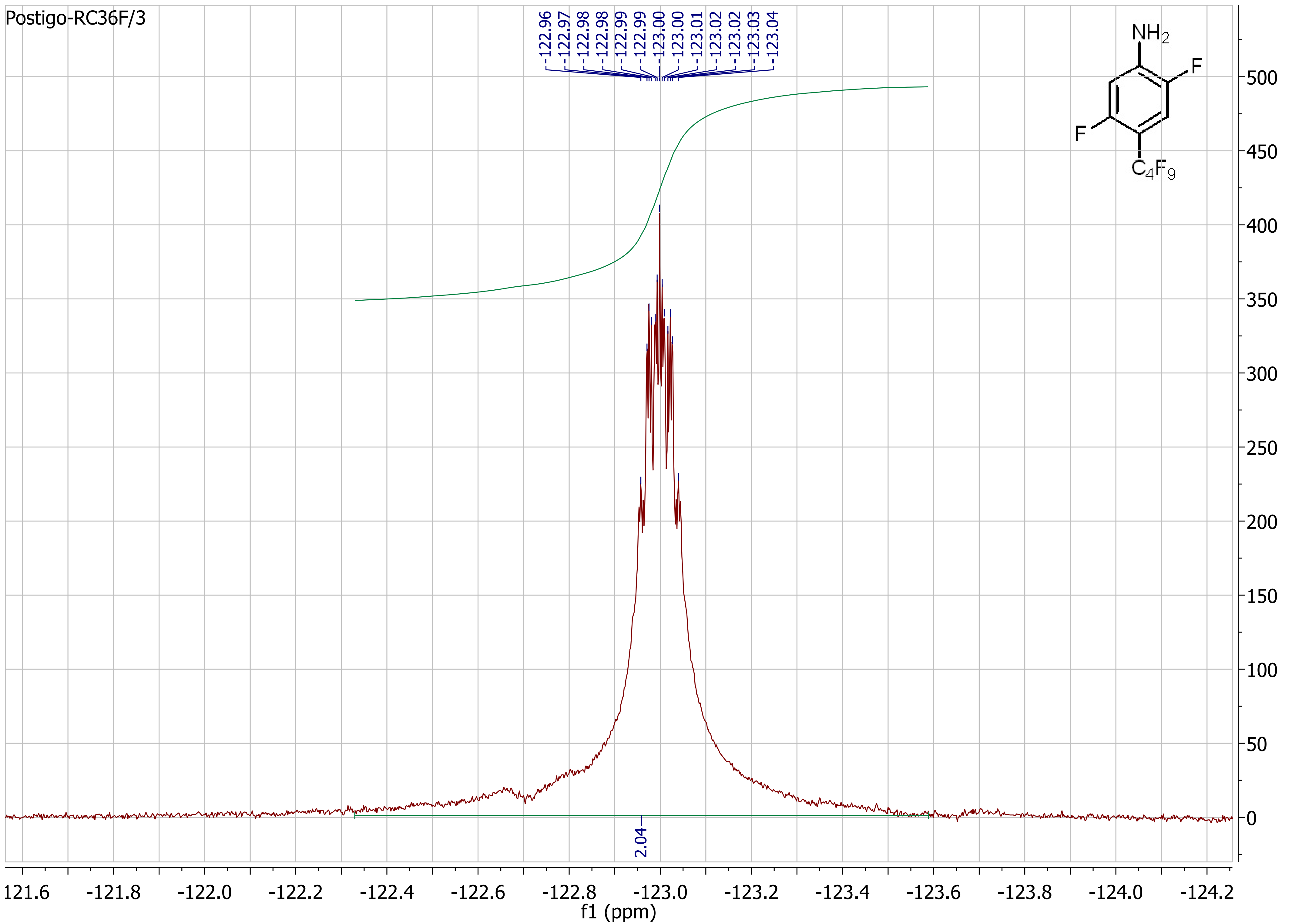


Postigo-RC36F/3
-108.25
-108.28
-108.32
-108.34
NH_2
F
F
C_4F_9
2.16
f1 (ppm)

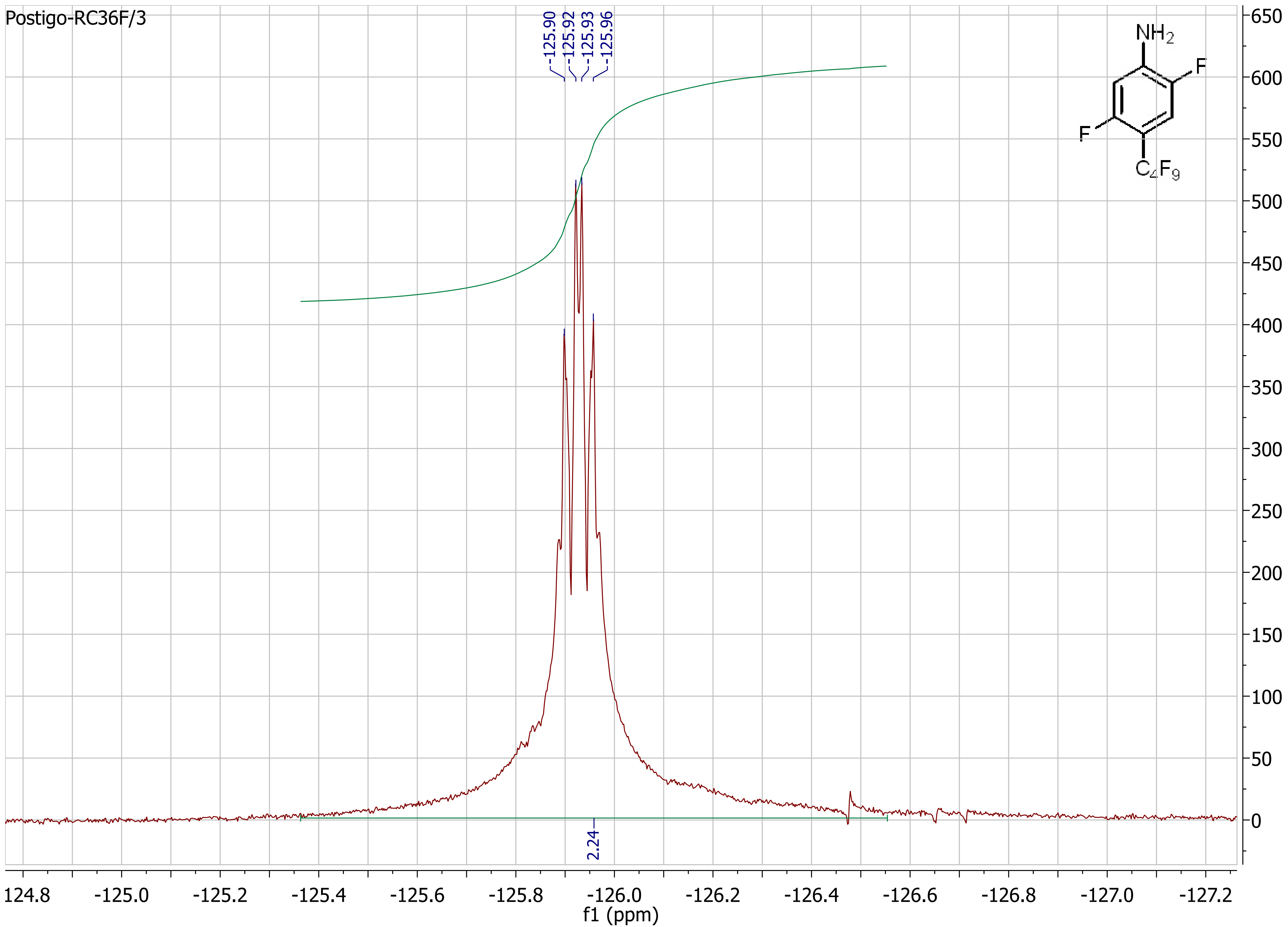


Postigo-RC36F/3
-116.55
-116.57
-116.61
-116.64
-116.67
-116.70
NH2
F
F
C4F9
0.78
f1 (ppm)

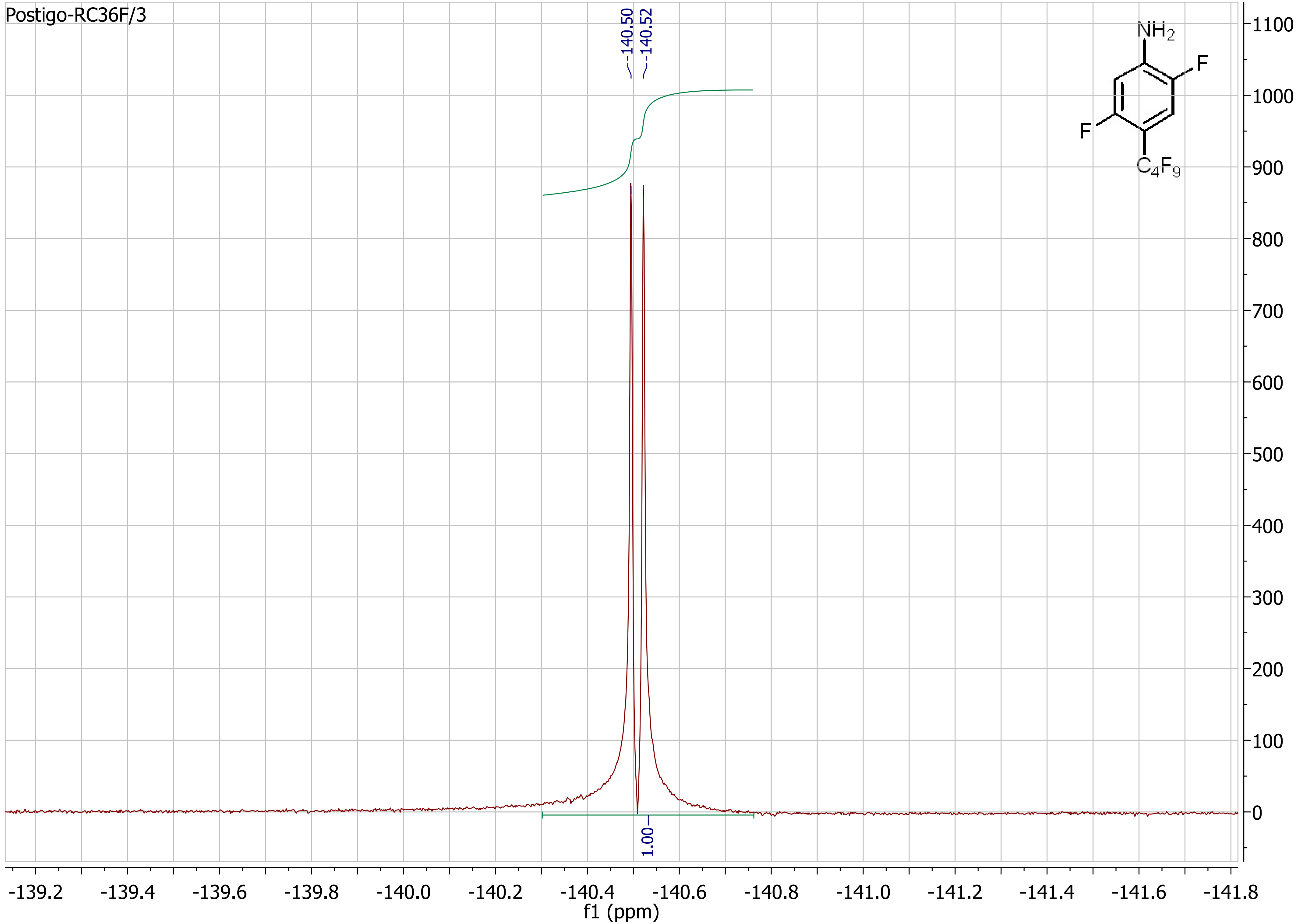

Postigo-RC36F/3
-122.96
-122.97
-122.98
-122.98
-122.99
-122.99
-123.00
-123.00
-123.01
-123.02
-123.02
-123.03
-123.04
-125.90
-125.92
-125.93
-125.96
NH2
F
F
C4F9
2.04
2.24
f1 (ppm)

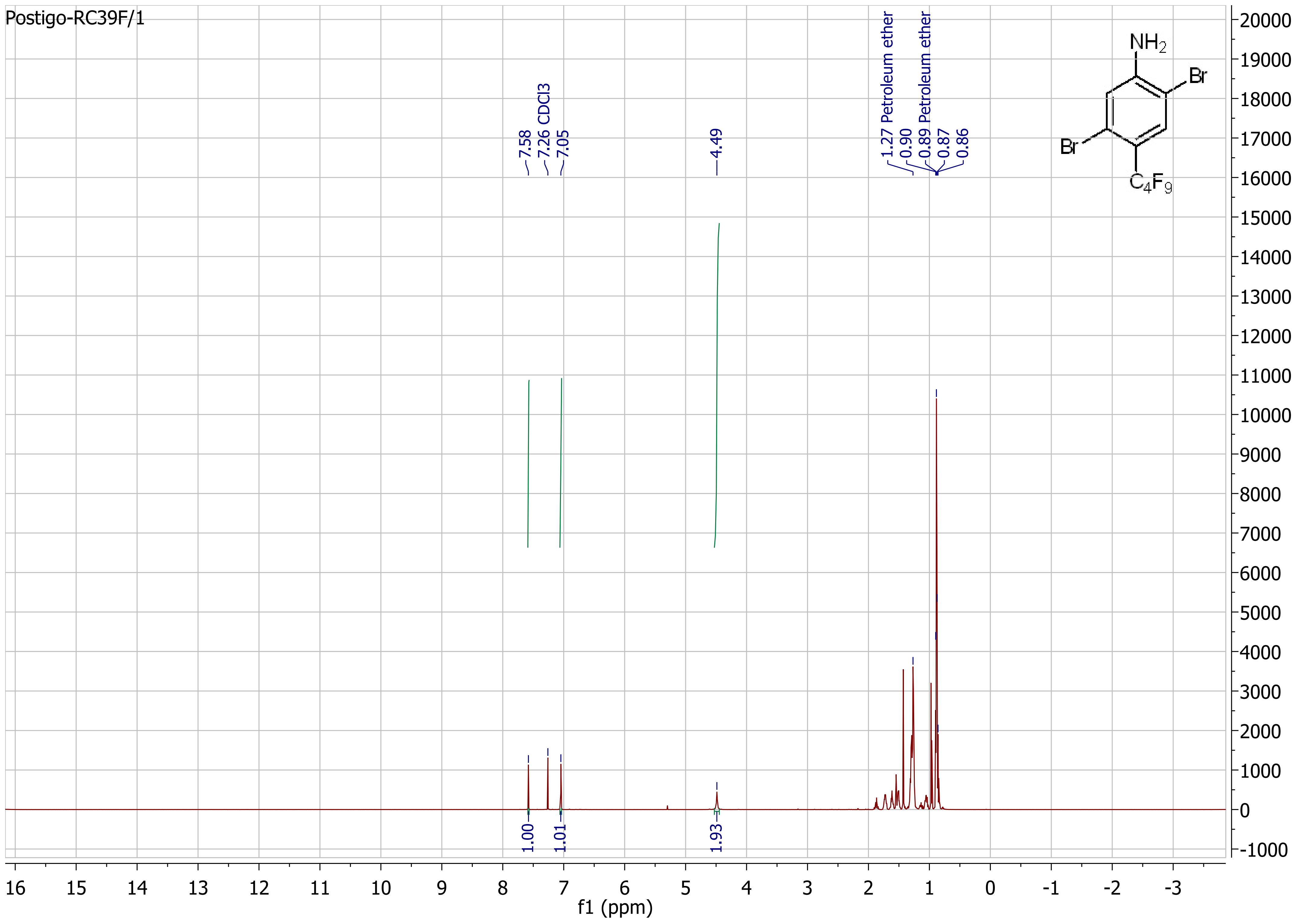


Postigo-RC36F/3
-122.96
-122.97
-122.98
-122.98
-122.99
-122.99
-123.00
-123.00
-123.01
-123.02
-123.02
-123.03
-123.04
NH2
F
F
C4F9
2.04
121.6
-121.8
-122.0
-122.2
-122.4
-122.6
-122.8
-123.0
-123.2
-123.4
-123.6
-123.8
-124.0
-124.2
f1 (ppm)
500
450
400
350
300
250
200
150
100
50
0

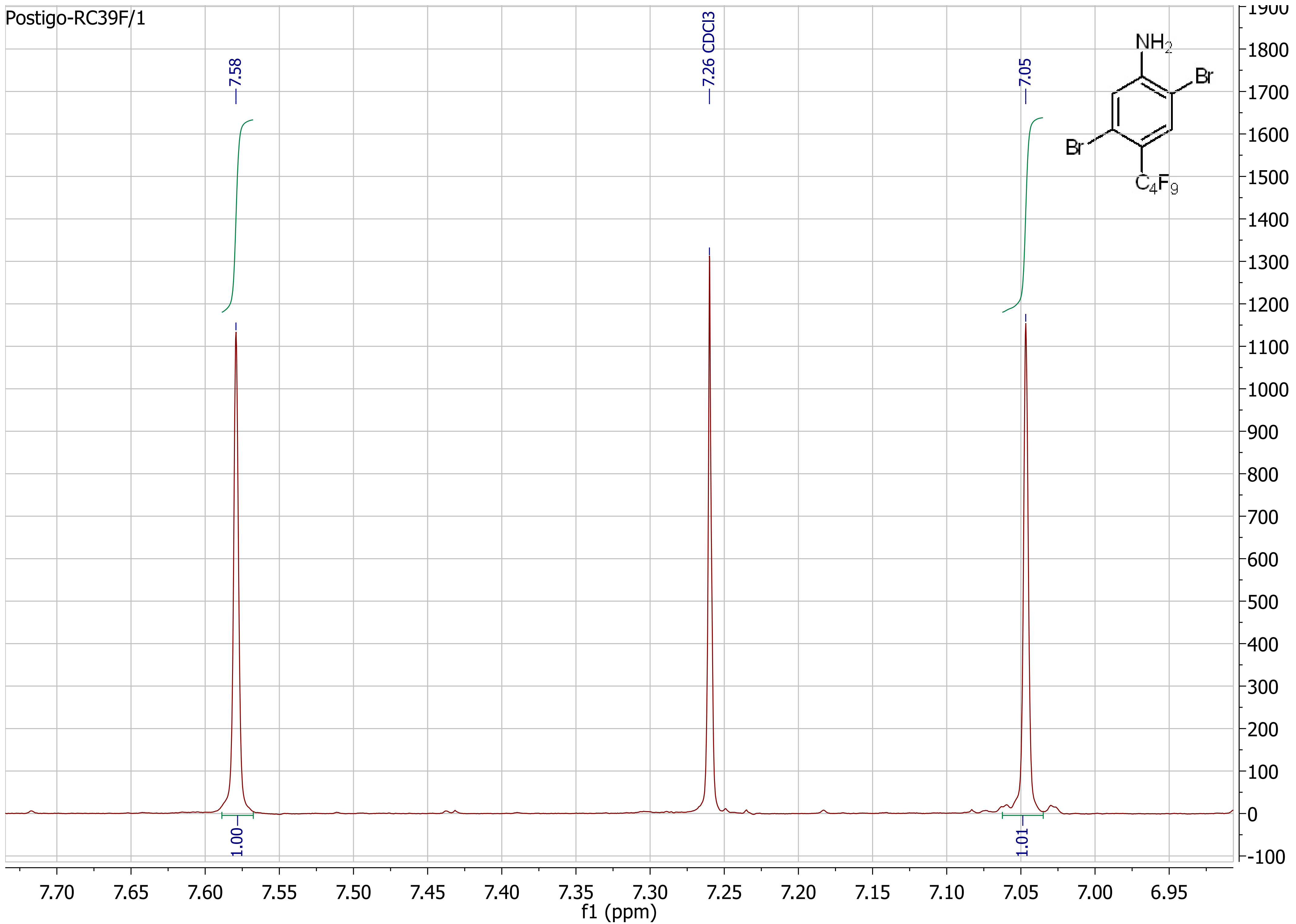


Postigo-RC36F/3
-125.90
-125.92
-125.93
-125.96
NH2
F
F
C4F9
2.24
124.8
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
-127.0
-127.2
f1 (ppm)
650
600
550
500
450
400
350
300
250
200
150
100
50
0

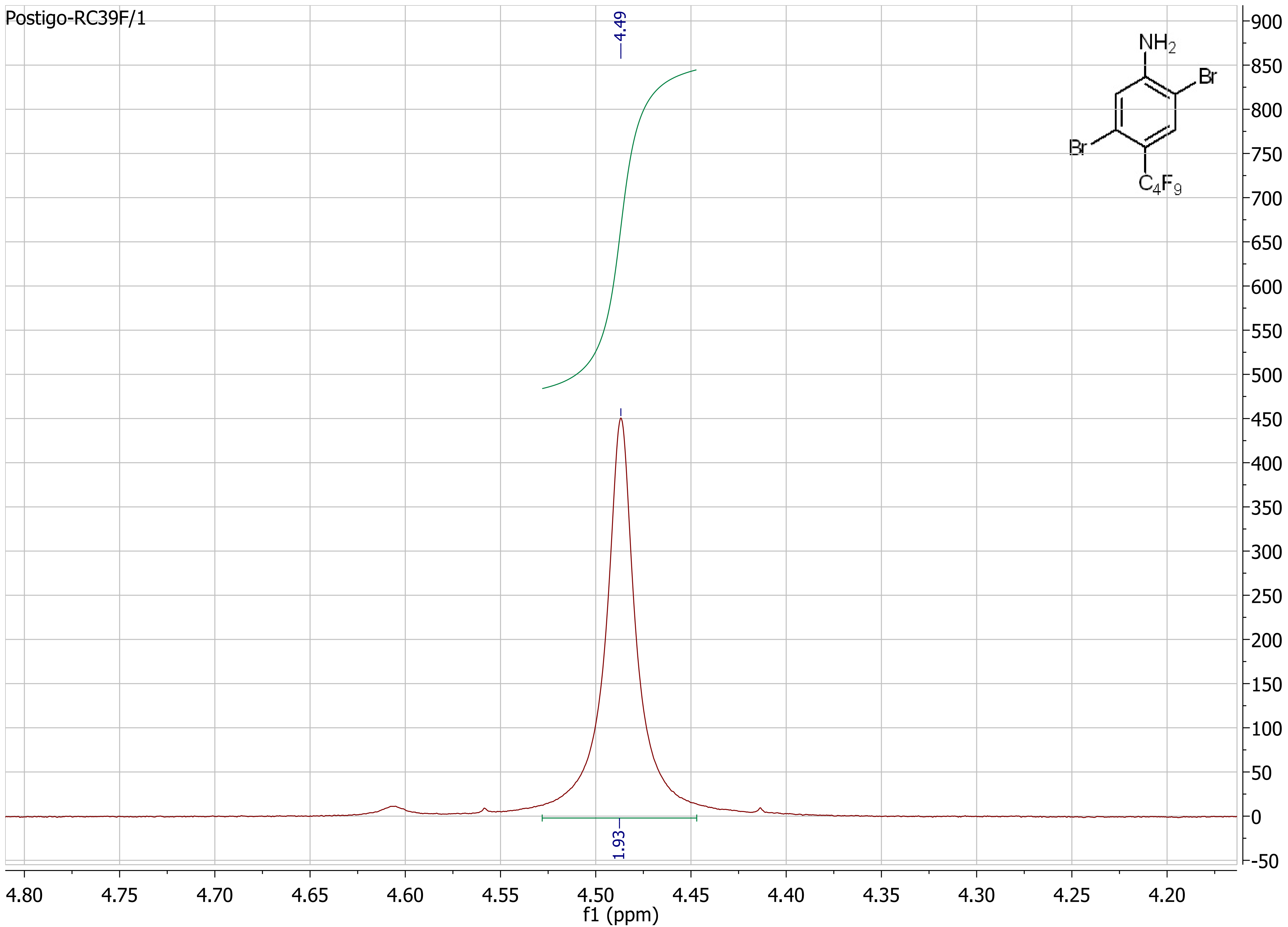

Postigo-RC36F/3
-140.50
-140.52
1.00
NH2
F
F
C4F9
f1 (ppm)



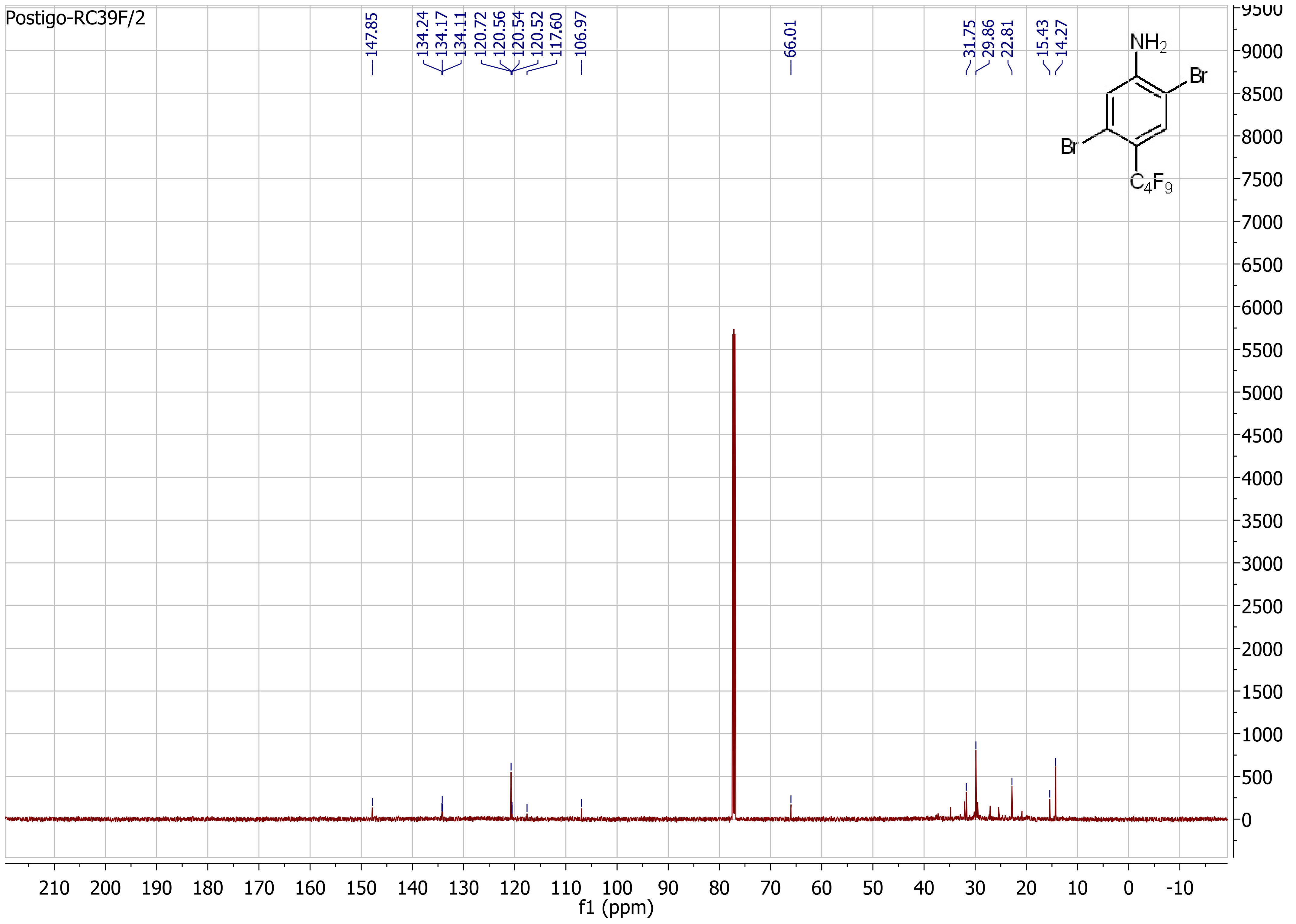
Postigo-RC39F/1
7.58
7.26 CDCl3
7.05
4.49
1.27 Petroleum ether
0.90
0.89 Petroleum ether
0.87
0.86
NH2
Br
Br
C4F9
1.00
1.01
1.93
f1 (ppm)



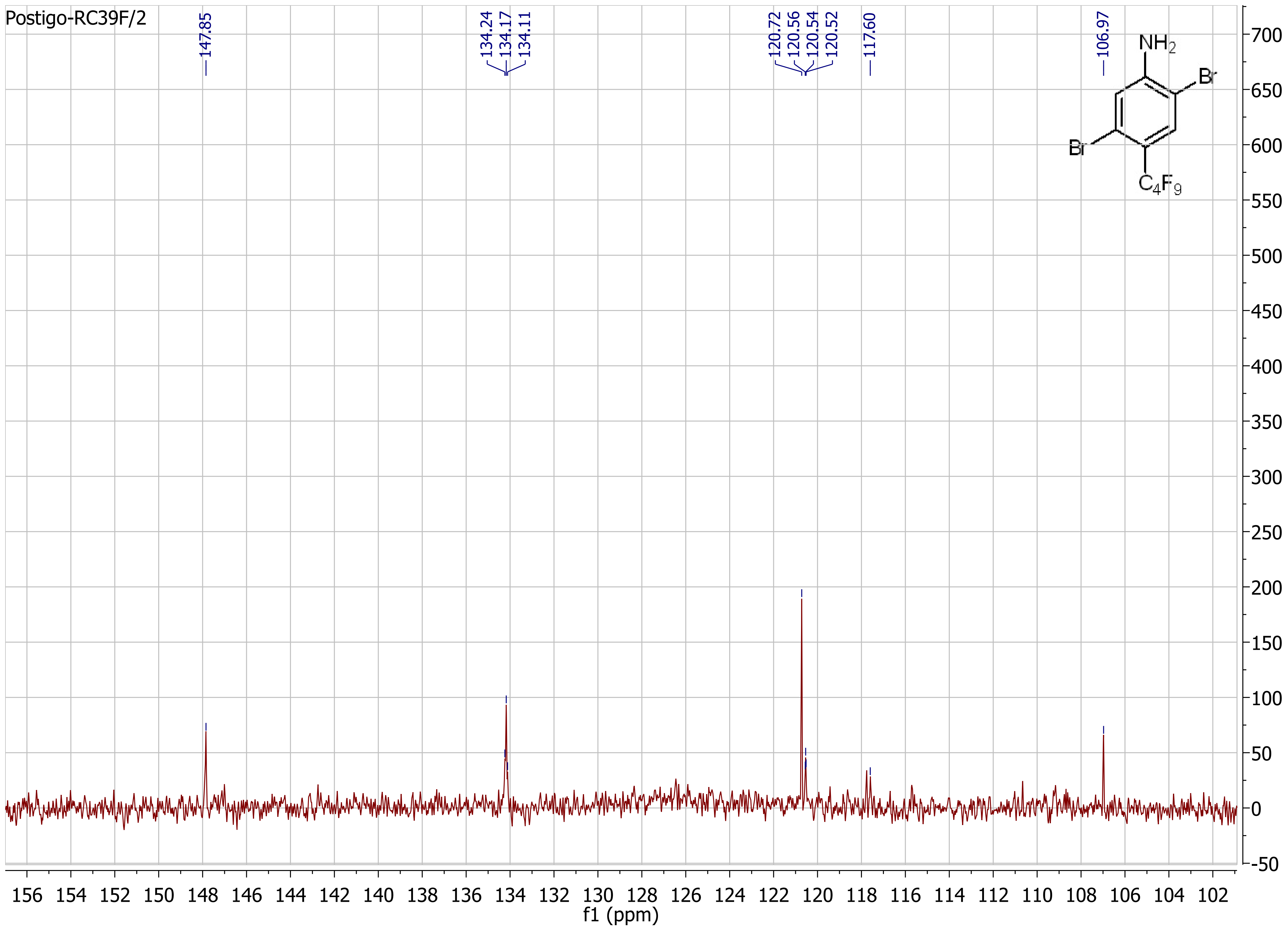
Postigo-RC39F/1
7.58
7.26 CDCl3
7.05
NH2
Br
Br
C4F9
1.00
1.01
f1 (ppm)



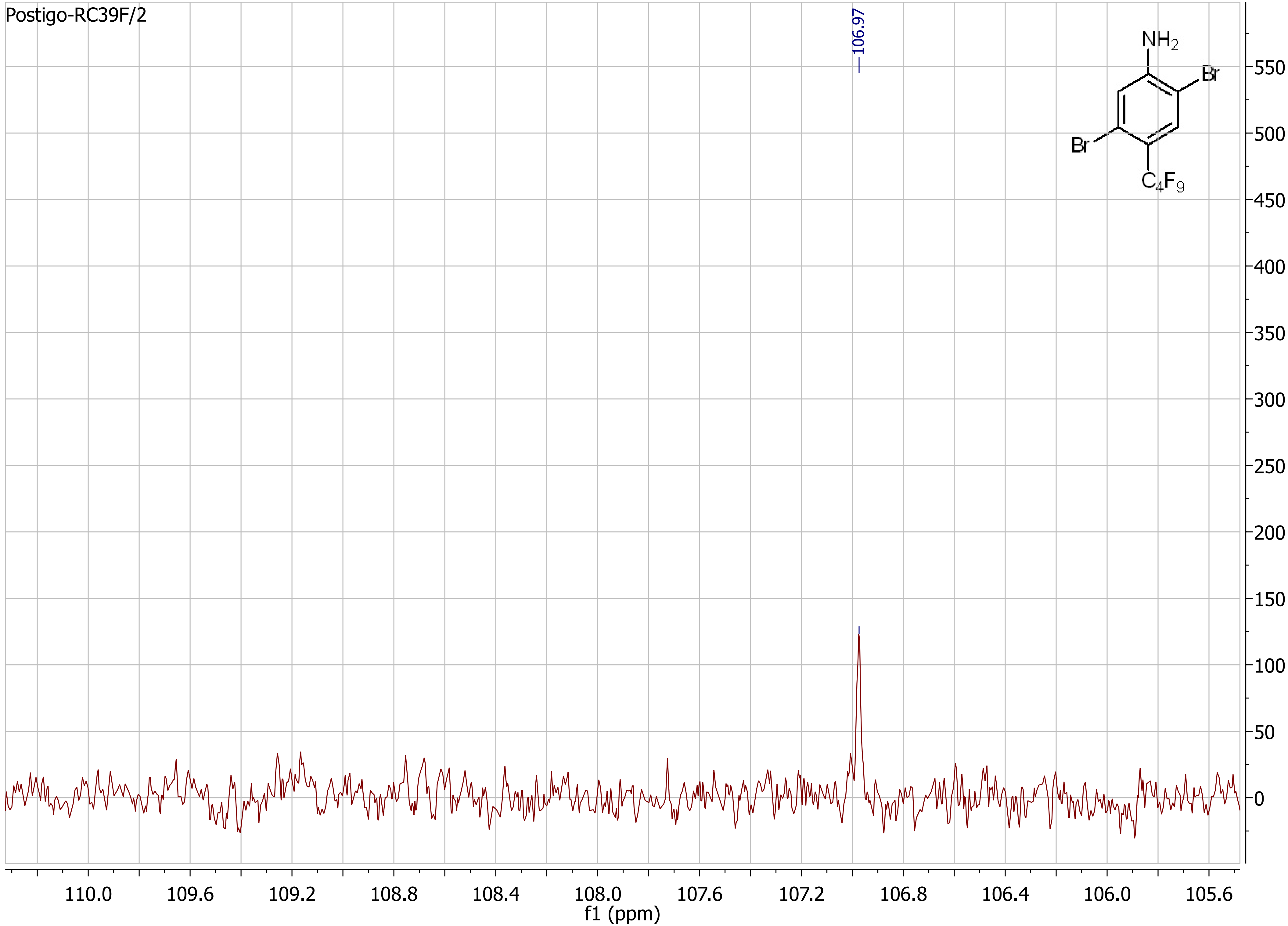
Postigo-RC39F/1
4.49
1.93
NH2
Br
Br
C4F9
f1 (ppm)
4.80
4.75
4.70
4.65
4.60
4.55
4.50
4.45
4.40
4.35
4.30
4.25
4.20
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50



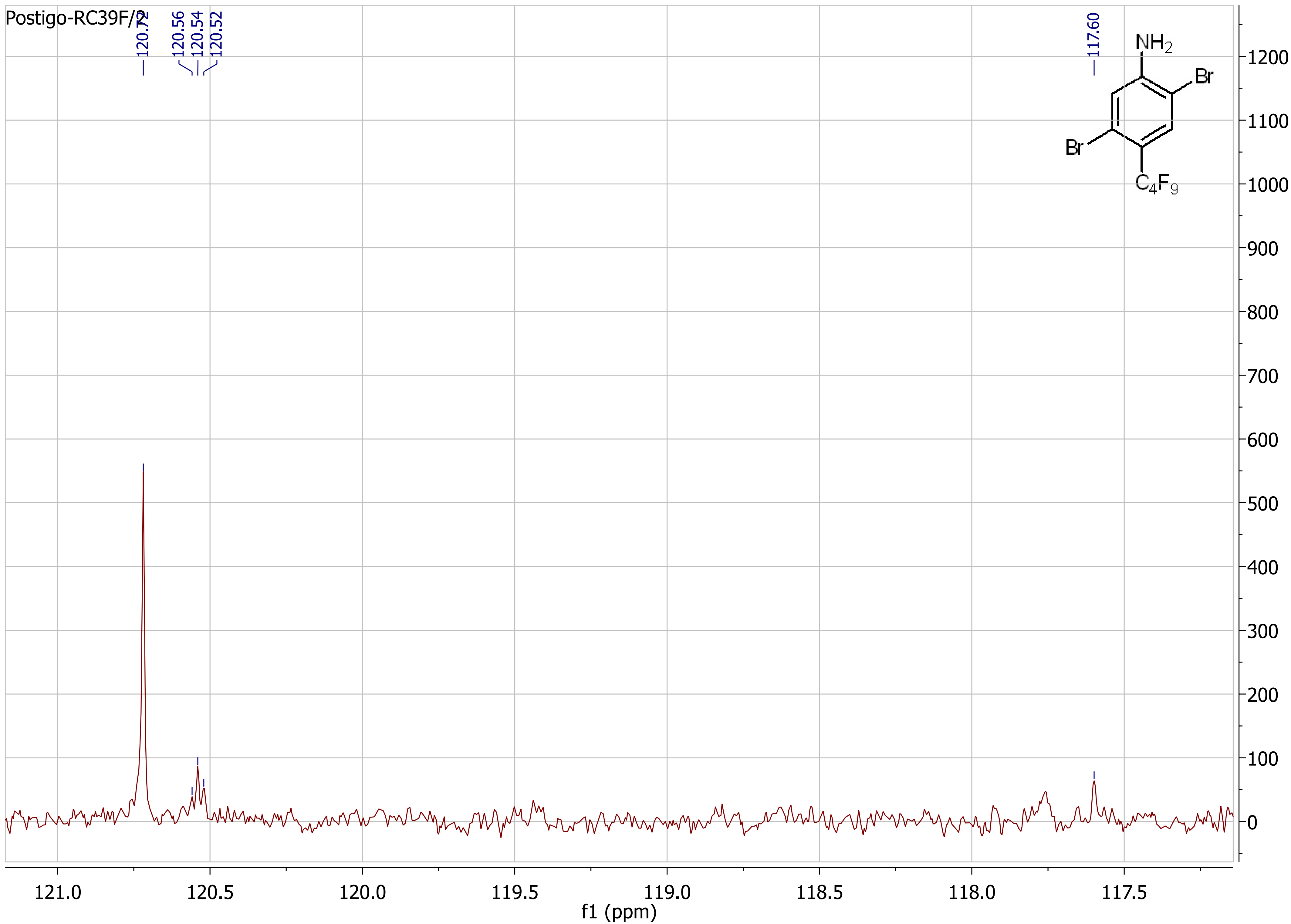
Postigo-RC39F/2
147.85
134.24
134.17
134.11
120.72
120.56
120.54
120.52
117.60
106.97
66.01
31.75
29.86
22.81
15.43
14.27
NH2
Br
Br
C4F9
f1 (ppm)

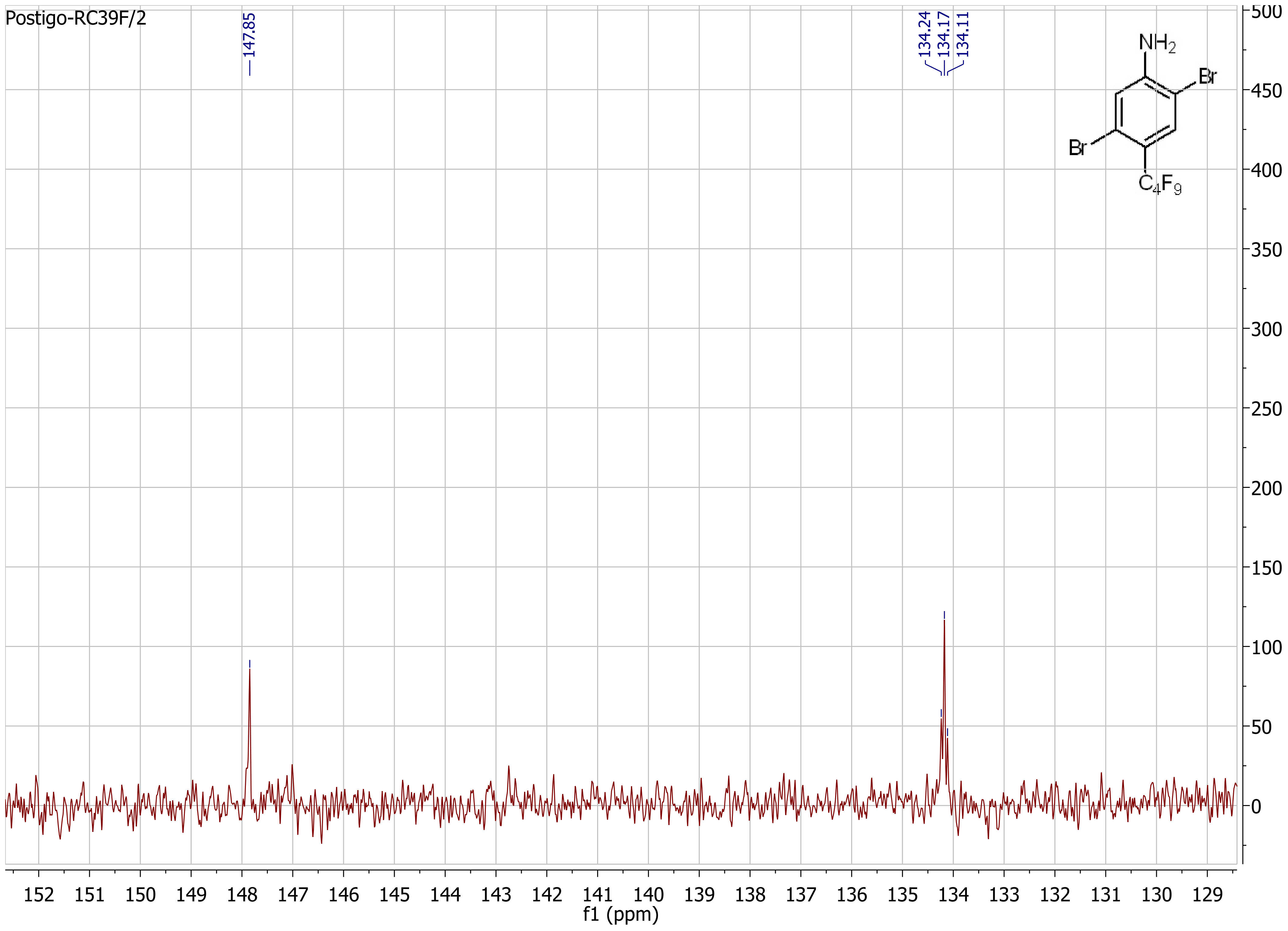


Postigo-RC39F/2
147.85
134.24
134.17
134.11
120.72
120.56
120.54
120.52
117.60
106.97
NH2
Br
Br
C4F9
f1 (ppm)

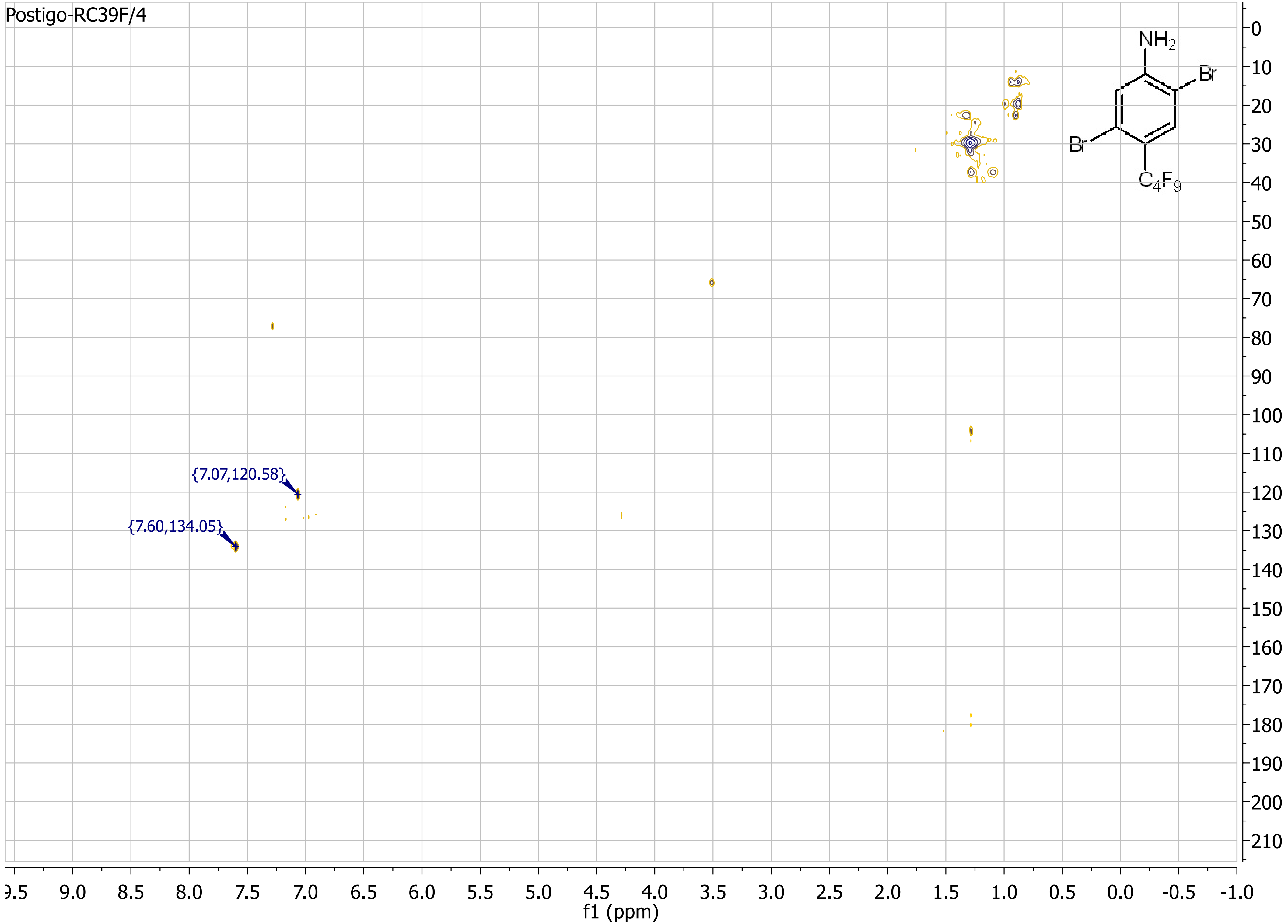


Postigo-RC39F/2
106.97
NH2
Br
Br
C4F9
550
500
450
400
350
300
250
200
150
100
50
0
110.0
109.6
109.2
108.8
108.4
108.0
107.6
107.2
106.8
106.4
106.0
105.6
f1 (ppm)

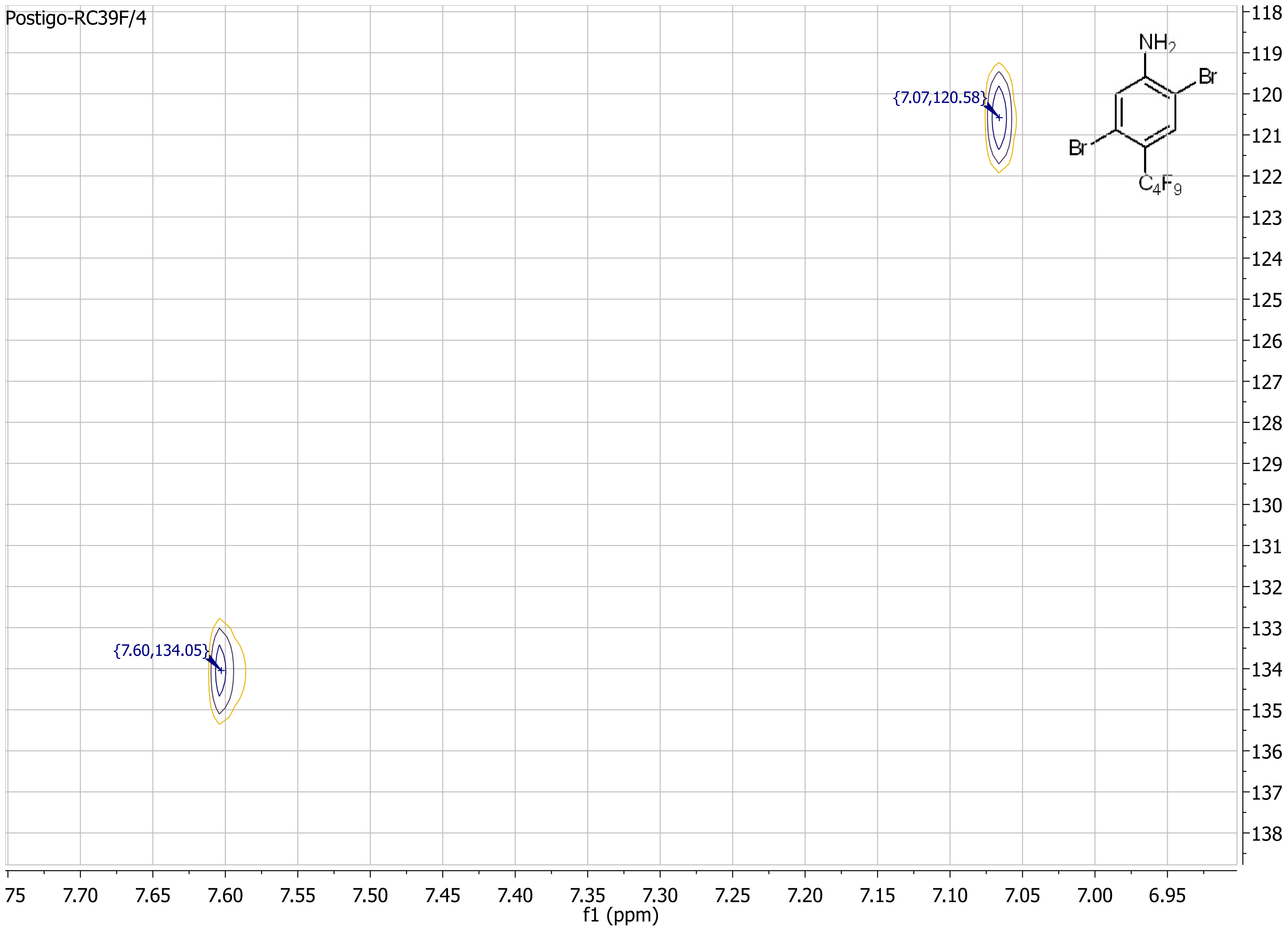

Postigo-RC39F/2
120.72
120.56
120.54
120.52
117.60
NH2
Br
Br
C4F9
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
121.0
120.5
120.0
119.5
119.0
118.5
118.0
117.5
f1 (ppm)

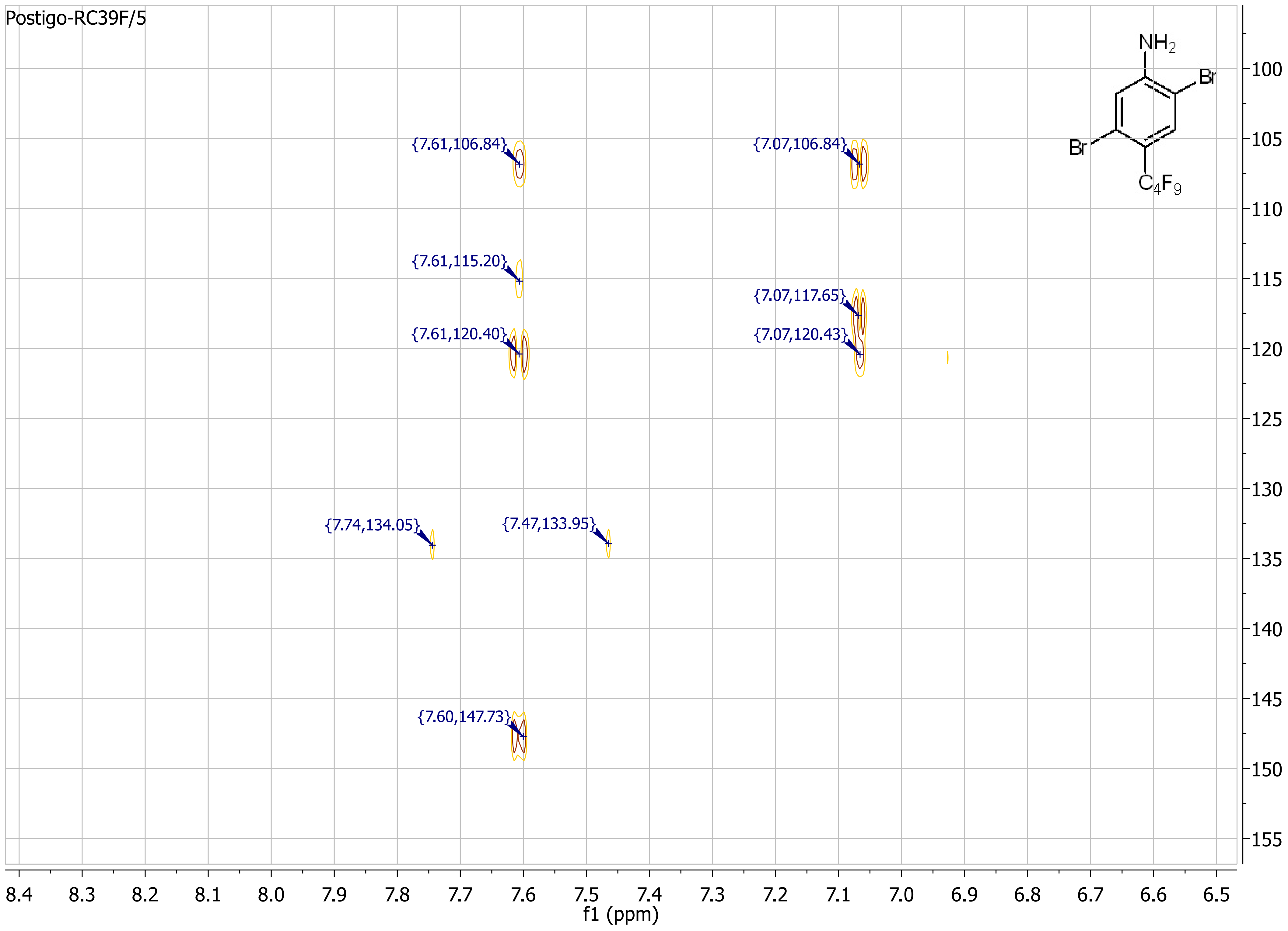


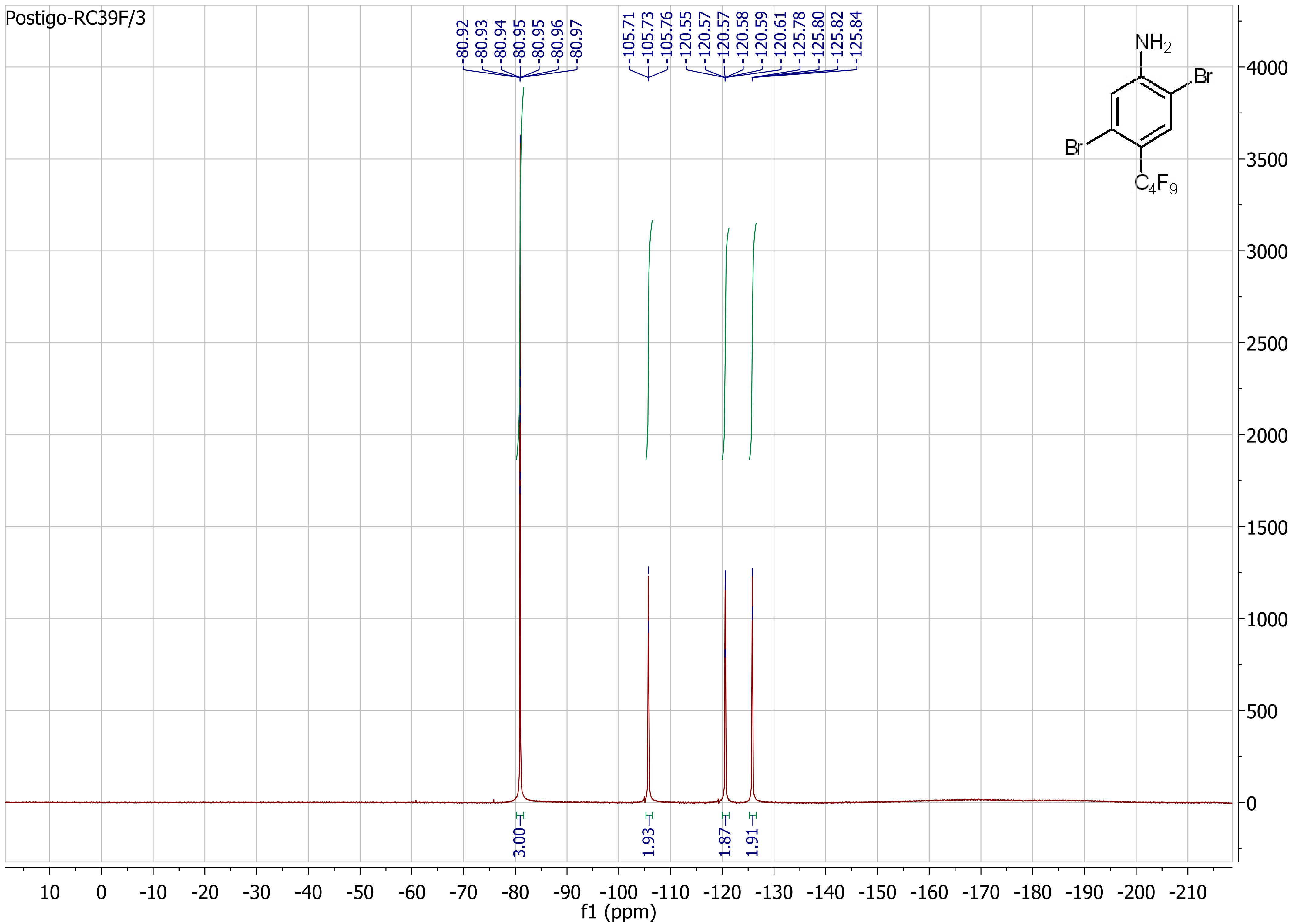
Postigo-RC39F/2
147.85
134.24
134.17
134.11
NH2
Br
Br
C4F9
152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129
f1 (ppm)
500 450 400 350 300 250 200 150 100 50 0



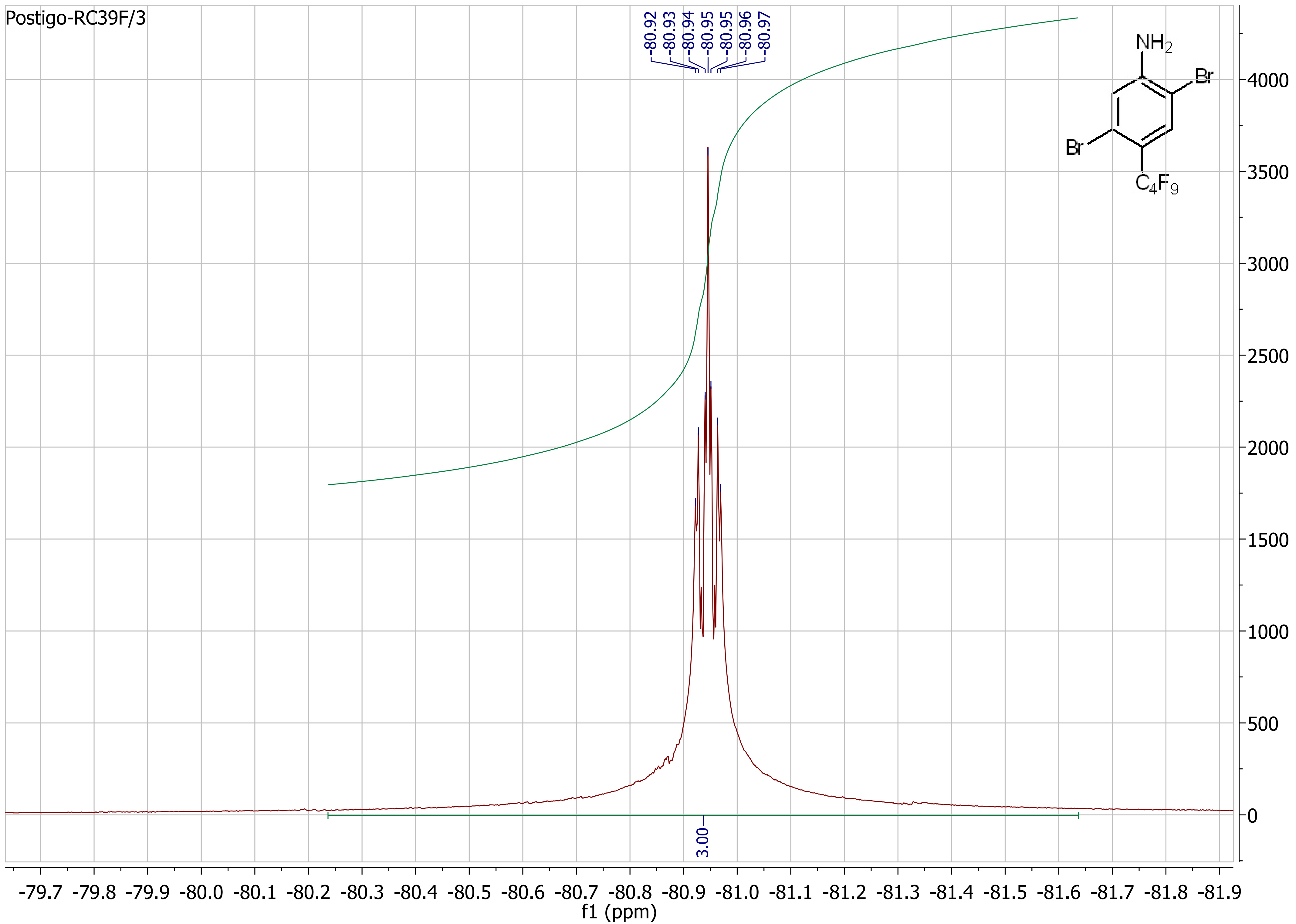
Postigo-RC39F/4
{7.07,120.58}
{7.60,134.05}
NH_2
Br
Br
C_4F_9
f1 (ppm)

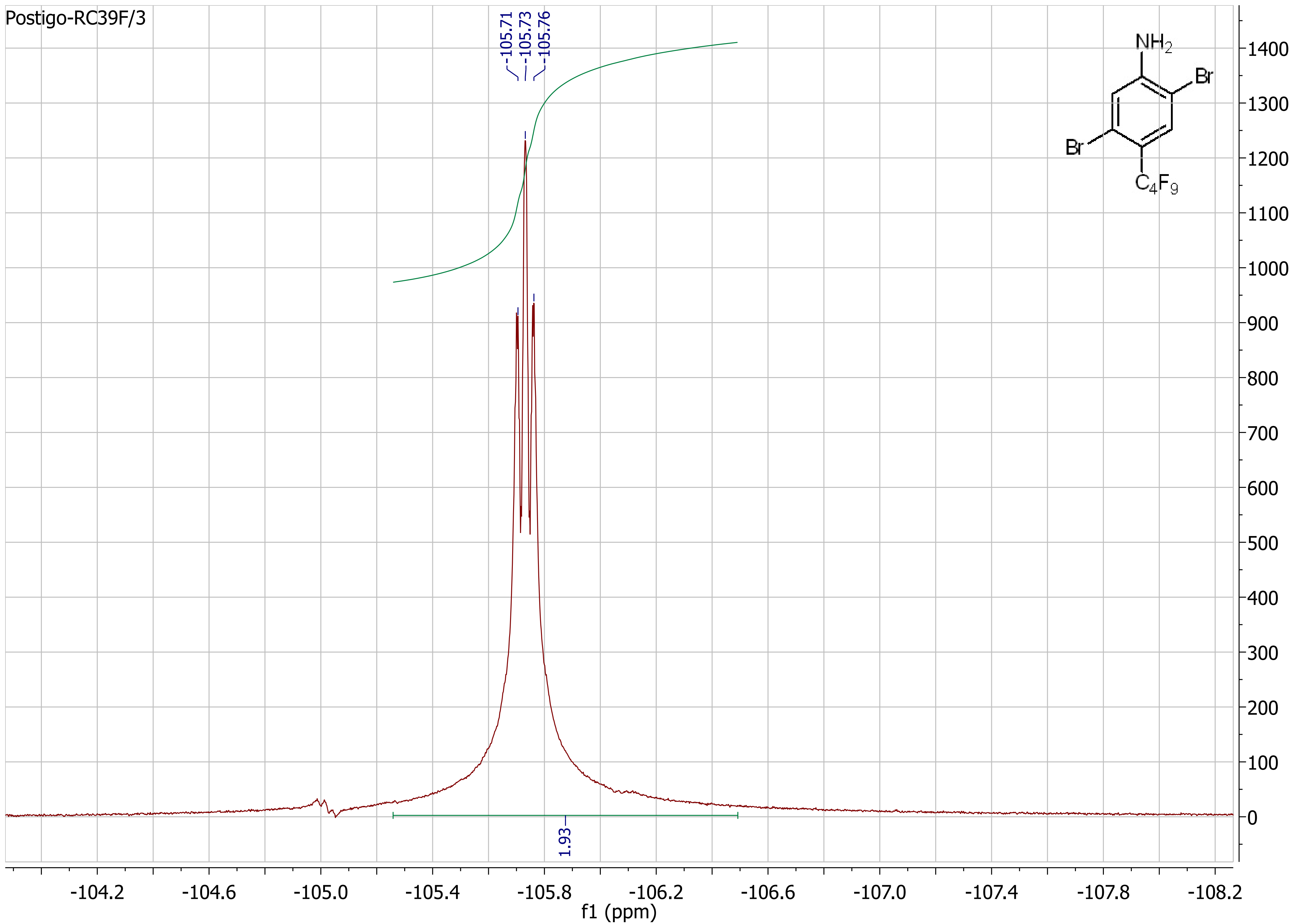

Postigo-RC39F/4
{7.07,120.58}
{7.60,134.05}
NH2
Br
Br
C4F9
75
7.70
7.65
7.60
7.55
7.50
7.45
7.40
7.35
7.30
7.25
7.20
7.15
7.10
7.05
7.00
6.95
f1 (ppm)
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138


Postigo-RC39F/5
NH2
Br
Br
C4F9
{7.61,106.84}
{7.07,106.84}
{7.61,115.20}
{7.07,117.65}
{7.61,120.40}
{7.07,120.43}
{7.74,134.05}
{7.47,133.95}
{7.60,147.73}
f1 (ppm)

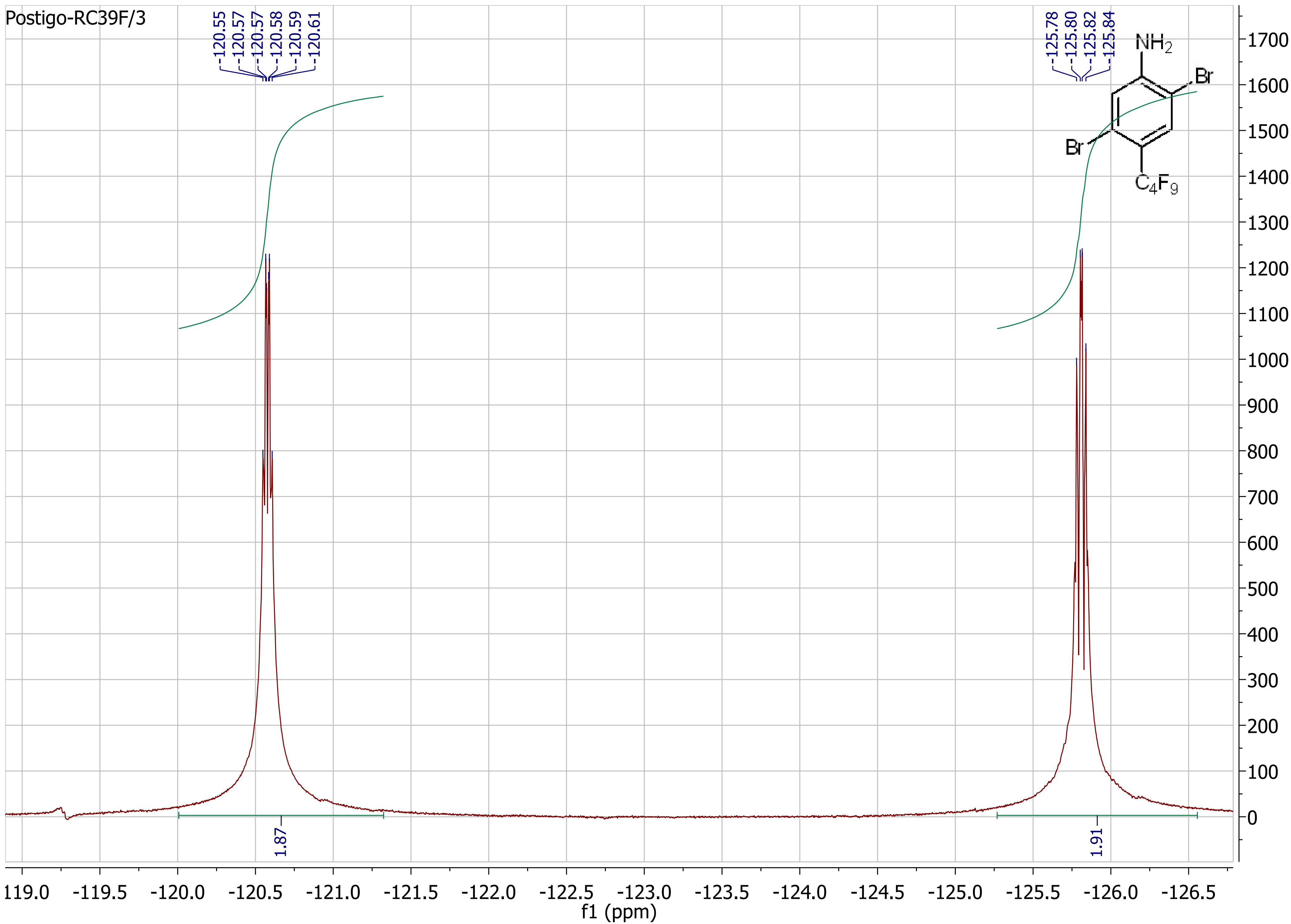


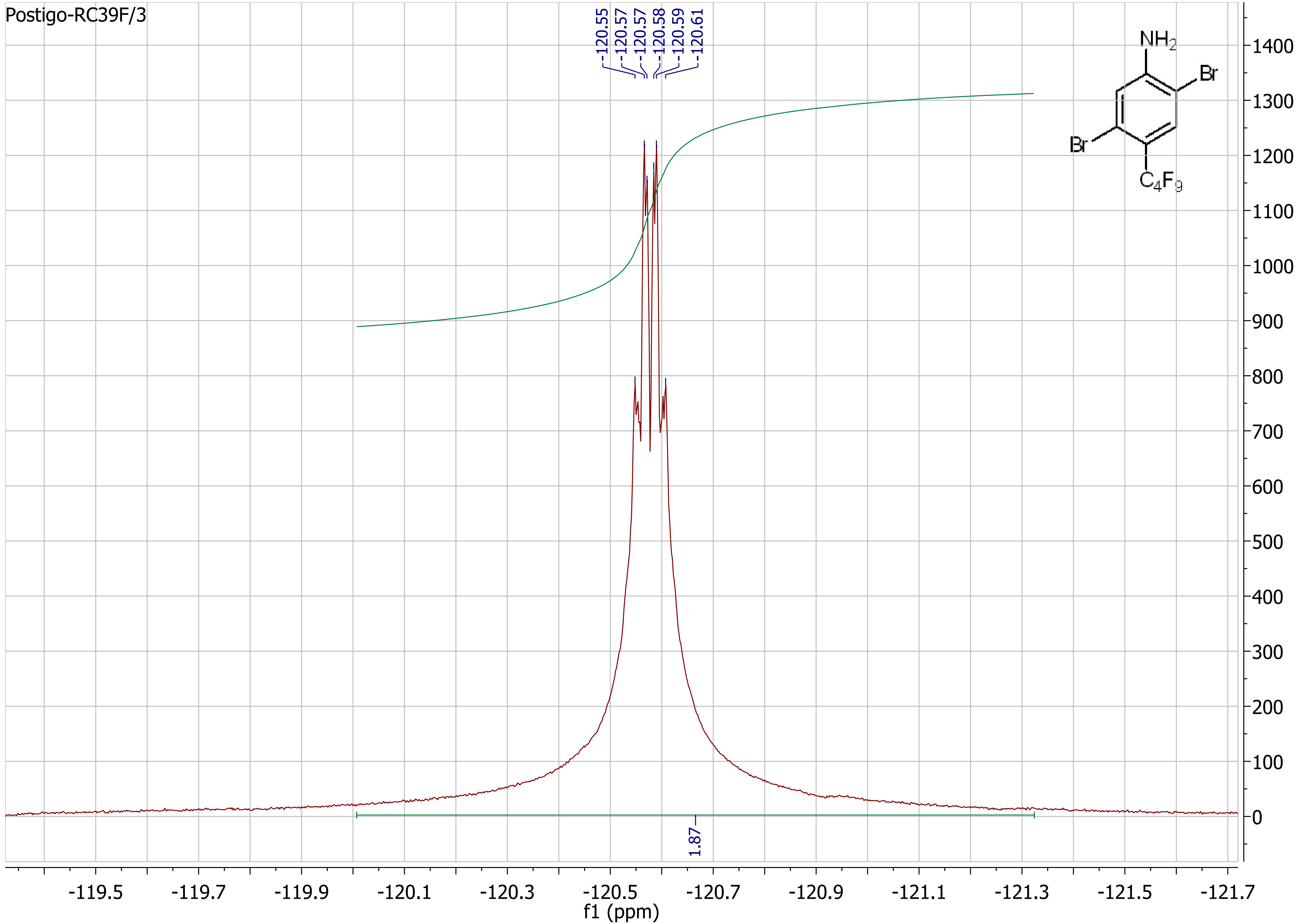
Postigo-RC39F/3
-80.92
-80.93
-80.94
-80.95
-80.95
-80.96
-80.97
-105.71
-105.73
-105.76
-120.55
-120.57
-120.57
-120.58
-120.59
-120.61
-125.78
-125.80
-125.82
-125.84
NH2
Br
Br
C4F9
3.00
1.93
1.87
1.91
f1 (ppm)


Postigo-RC39F/3
-80.92
-80.93
-80.94
-80.95
-80.95
-80.96
-80.97
NH2
Br
Br
C4F9
3.00
-79.7 -79.8 -79.9 -80.0 -80.1 -80.2 -80.3 -80.4 -80.5 -80.6 -80.7 -80.8 -80.9 -81.0 -81.1 -81.2 -81.3 -81.4 -81.5 -81.6 -81.7 -81.8 -81.9
f1 (ppm)
4000
3500
3000
2500
2000
1500
1000
500
0

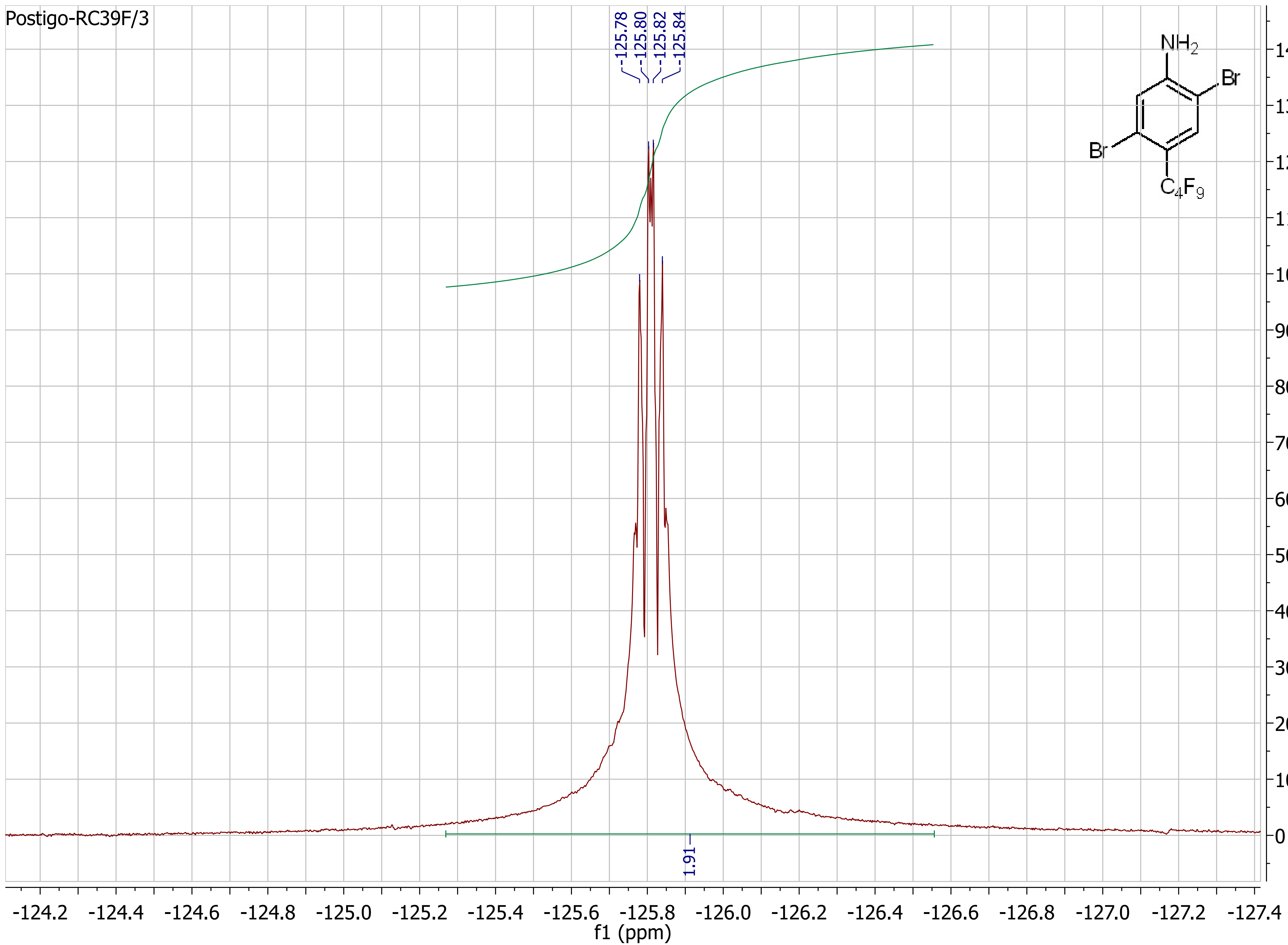


Postigo-RC39F/3
-105.71
-105.73
-105.76
NH2
Br
Br
C4F9
1.93
f1 (ppm)

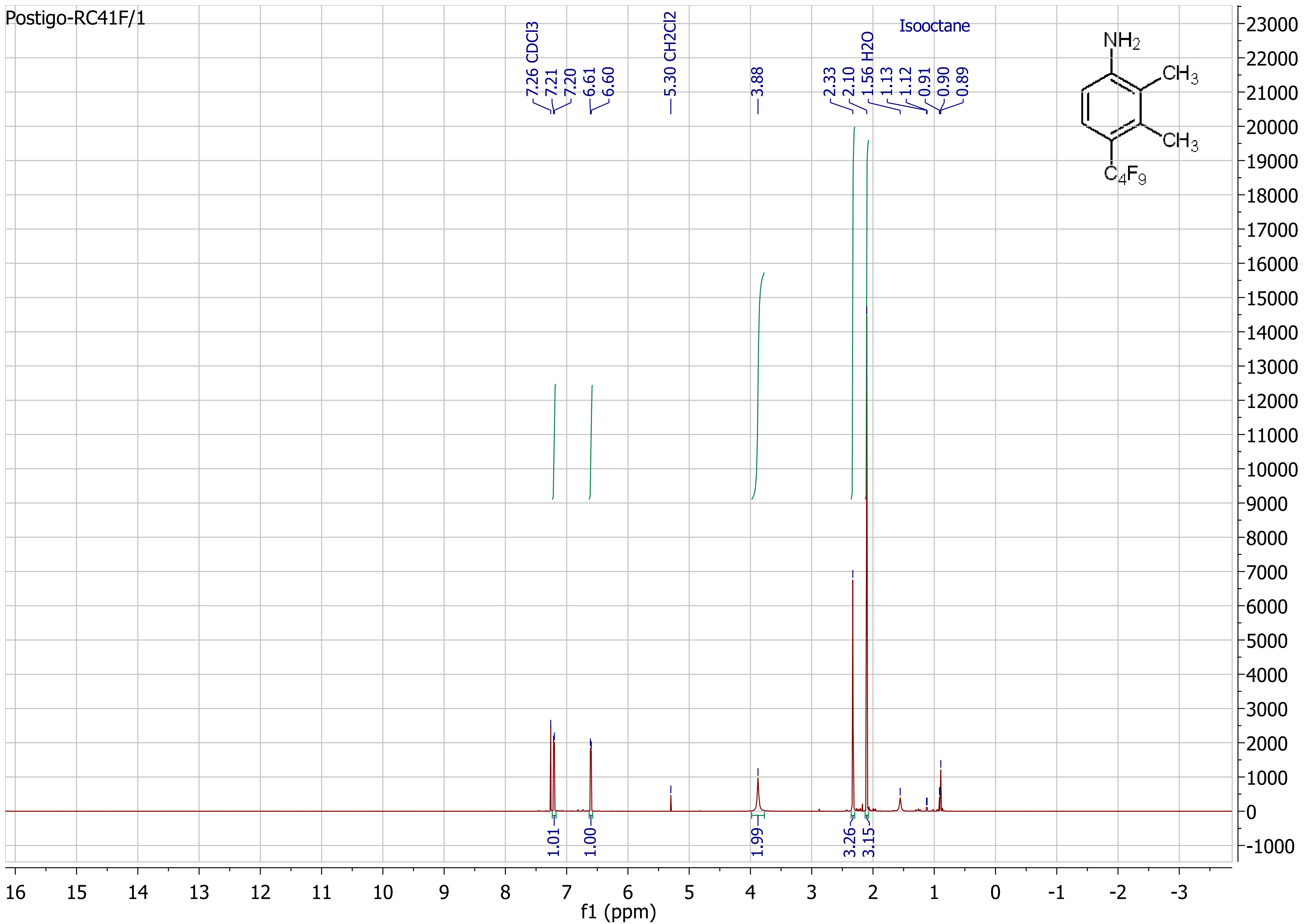

Postigo-RC39F/3
-120.55
-120.57
-120.57
-120.58
-120.59
-120.61
-125.78
-125.80
-125.82
-125.84
NH2
Br
Br
C4F9
1.87
1.91
f1 (ppm)



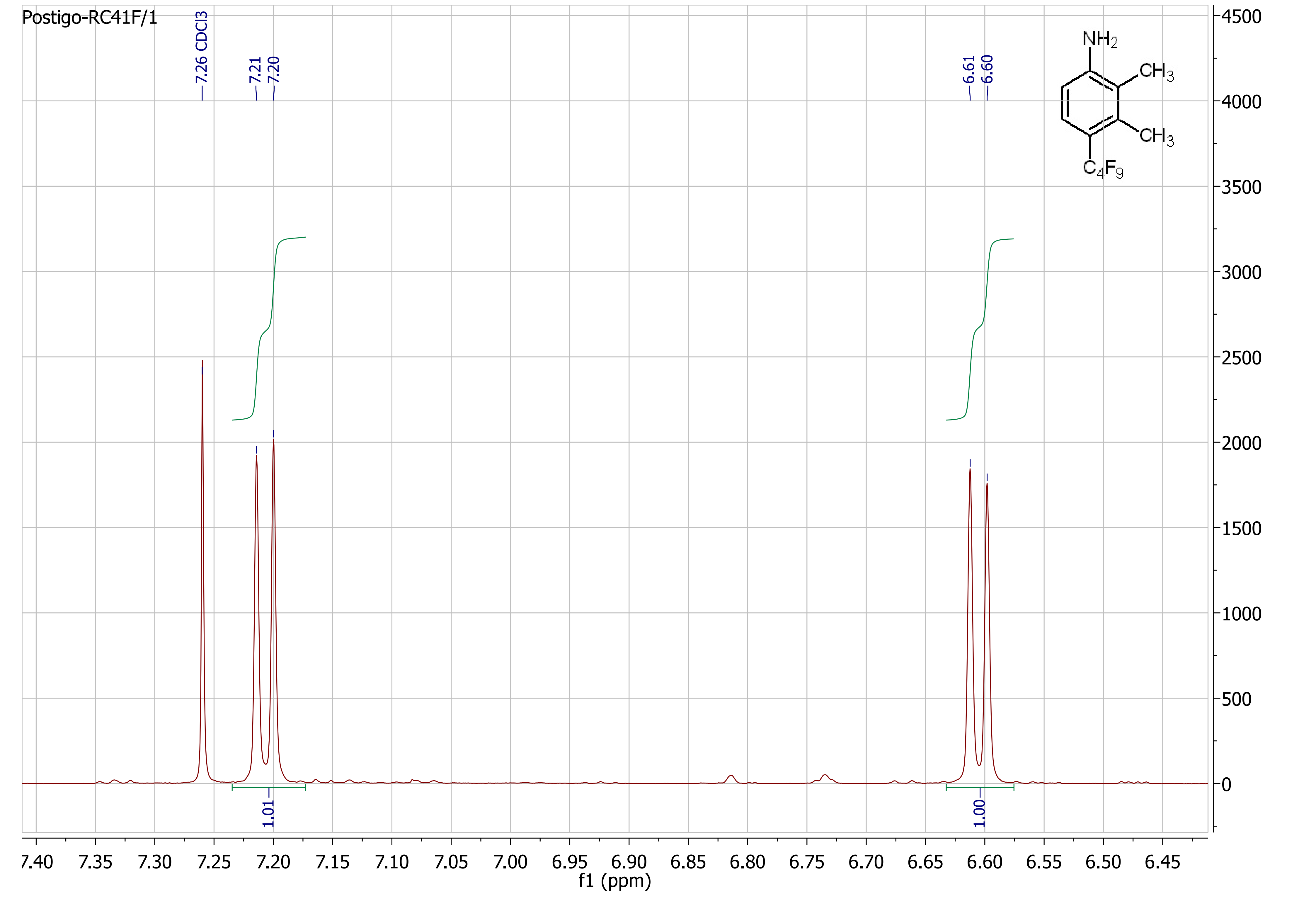
Postigo-RC39F/3
-120.55
-120.57
-120.57
-120.58
-120.59
-120.61
NH2
Br
Br
C4F9
1.87
-119.5
-119.7
-119.9
-120.1
-120.3
-120.5
-120.7
-120.9
-121.1
-121.3
-121.5
-121.7
f1 (ppm)
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0

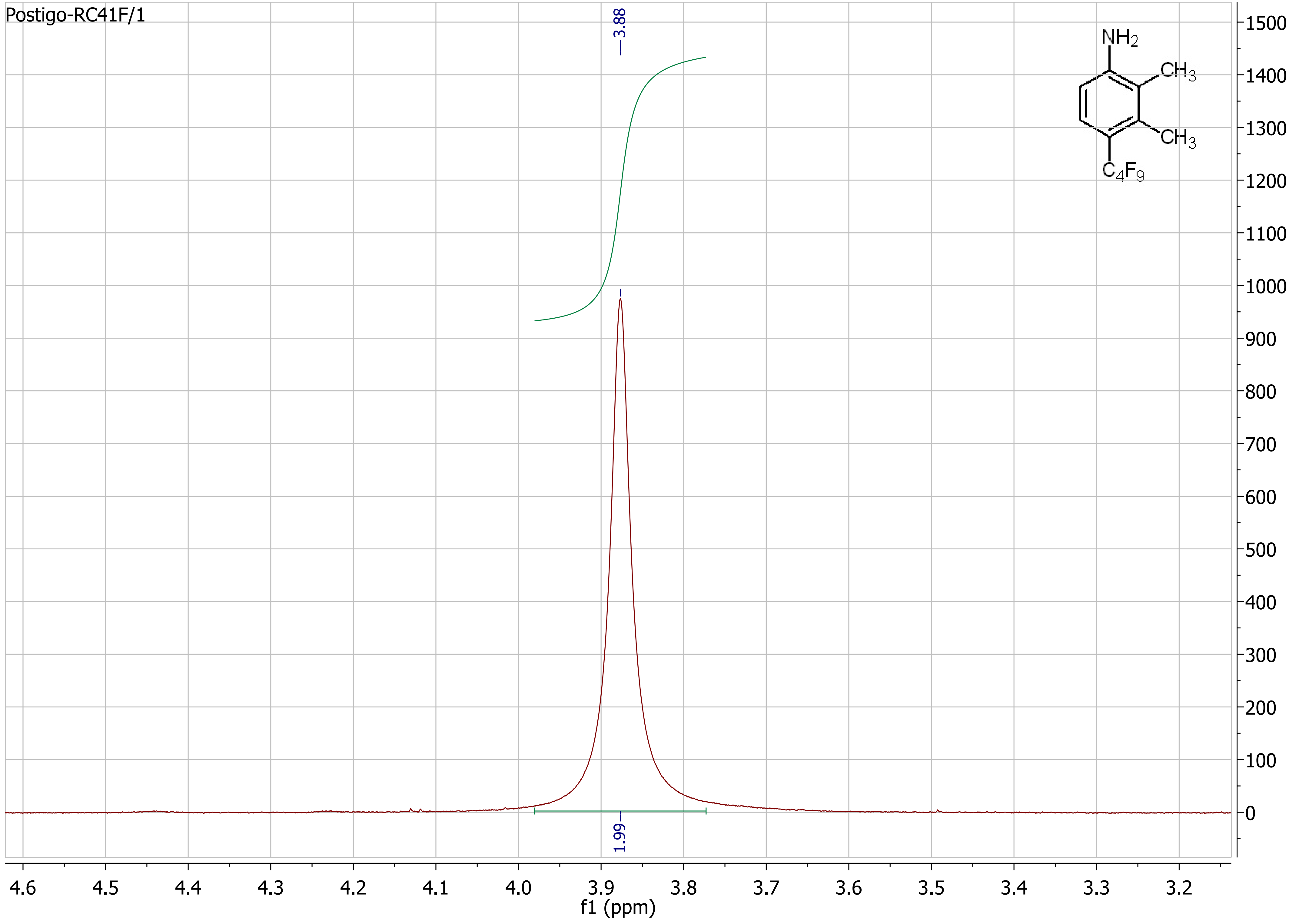


Postigo-RC39F/3
-125.78
-125.80
-125.82
-125.84
NH2
Br
Br
C4F9
1.91
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-124.2
-124.4
-124.6
-124.8
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
-127.0
-127.2
-127.4
f1 (ppm)

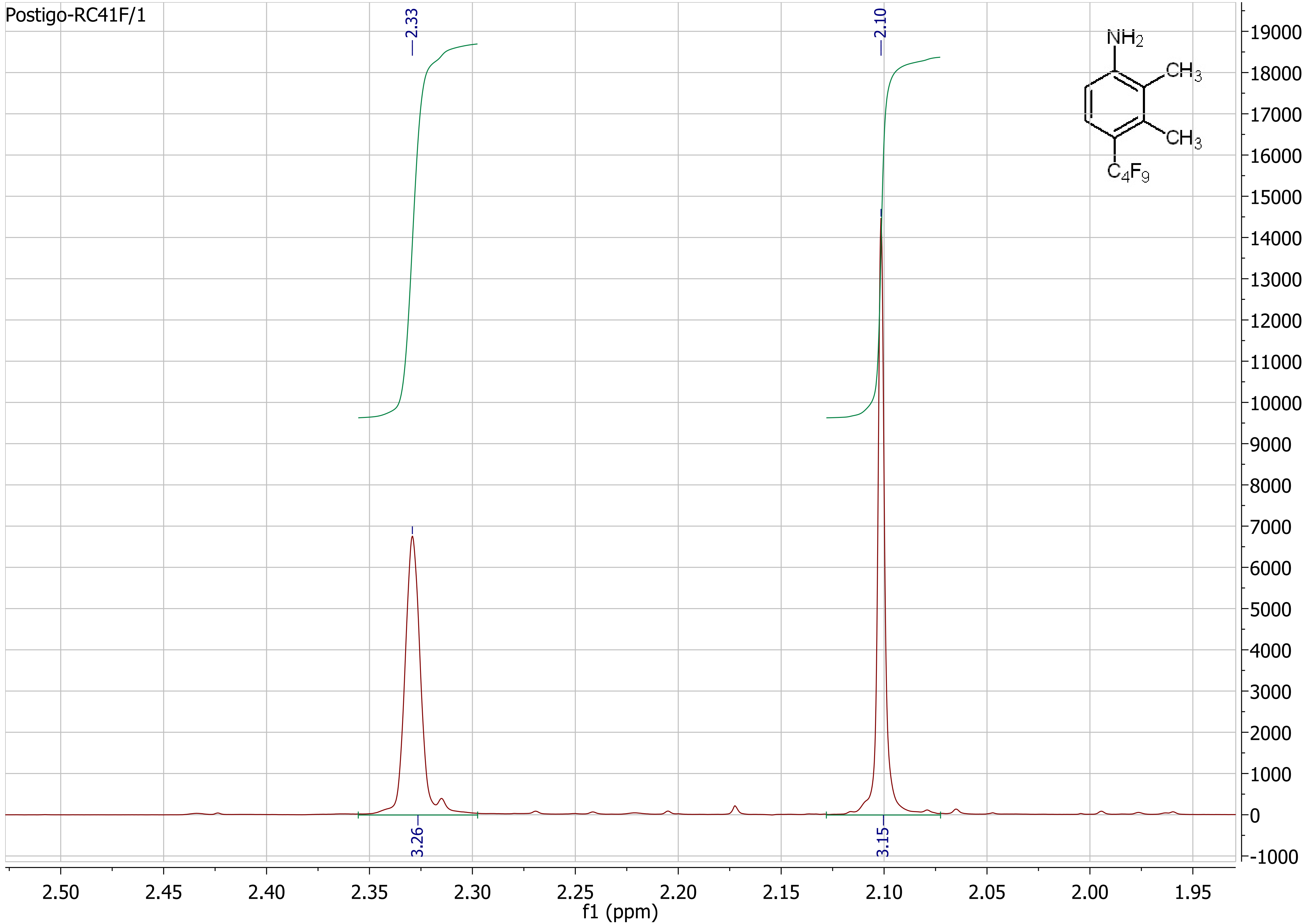


Postigo-RC41F/1
7.26 CDCl3
7.21
7.20
6.61
6.60
5.30 CH2Cl2
3.88
2.33
2.10
1.56 H2O
1.13
1.12
0.91
0.90
0.89
Isooctane
NH2
CH3
CH3
C4F9
1.01
1.00
1.99
3.26
3.15
f1 (ppm)

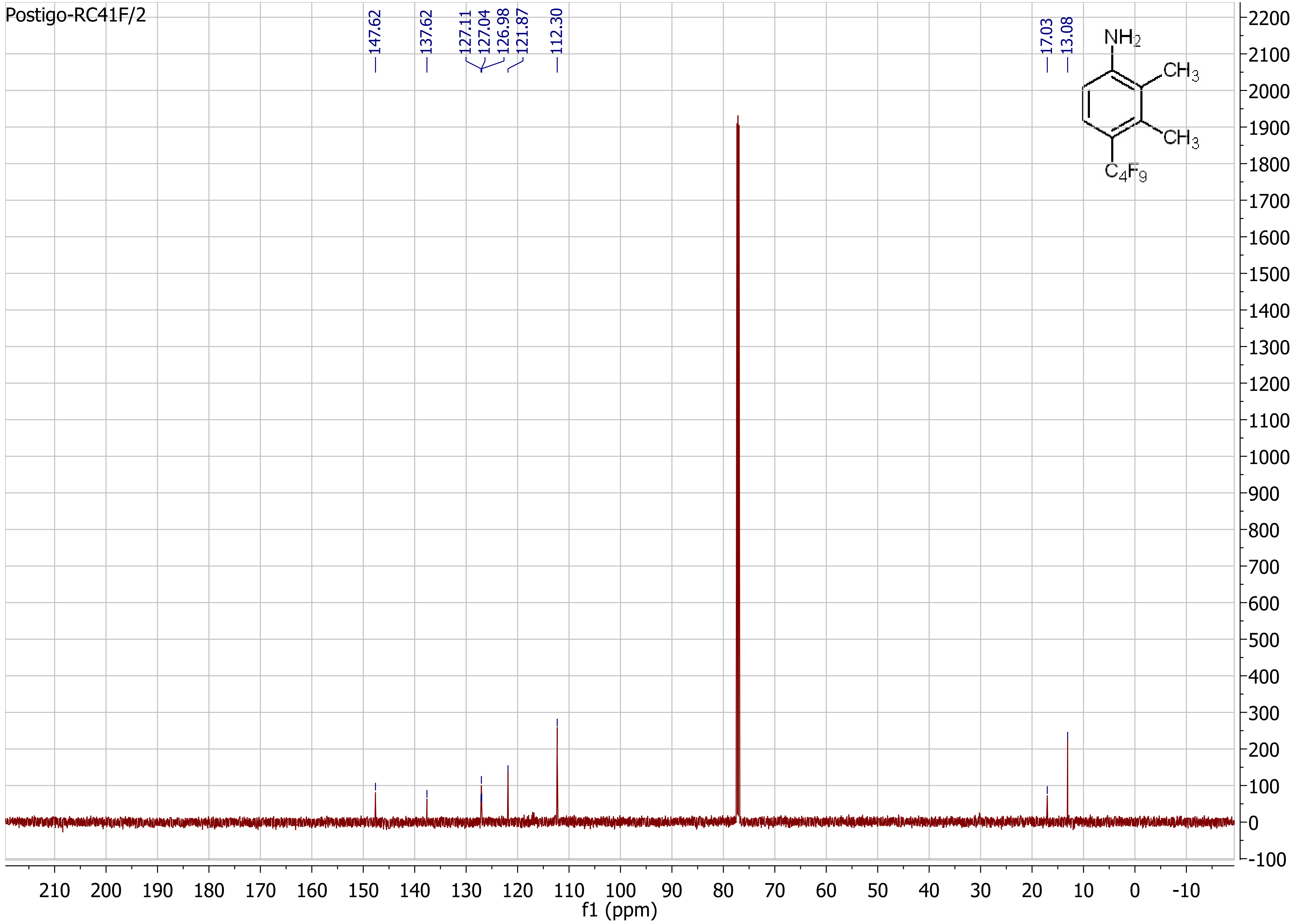

Postigo-RC41F/1
7.26 CDCl3
7.21
7.20
6.61
6.60
NH2
CH3
CH3
C4F9
1.01
1.00
f1 (ppm)



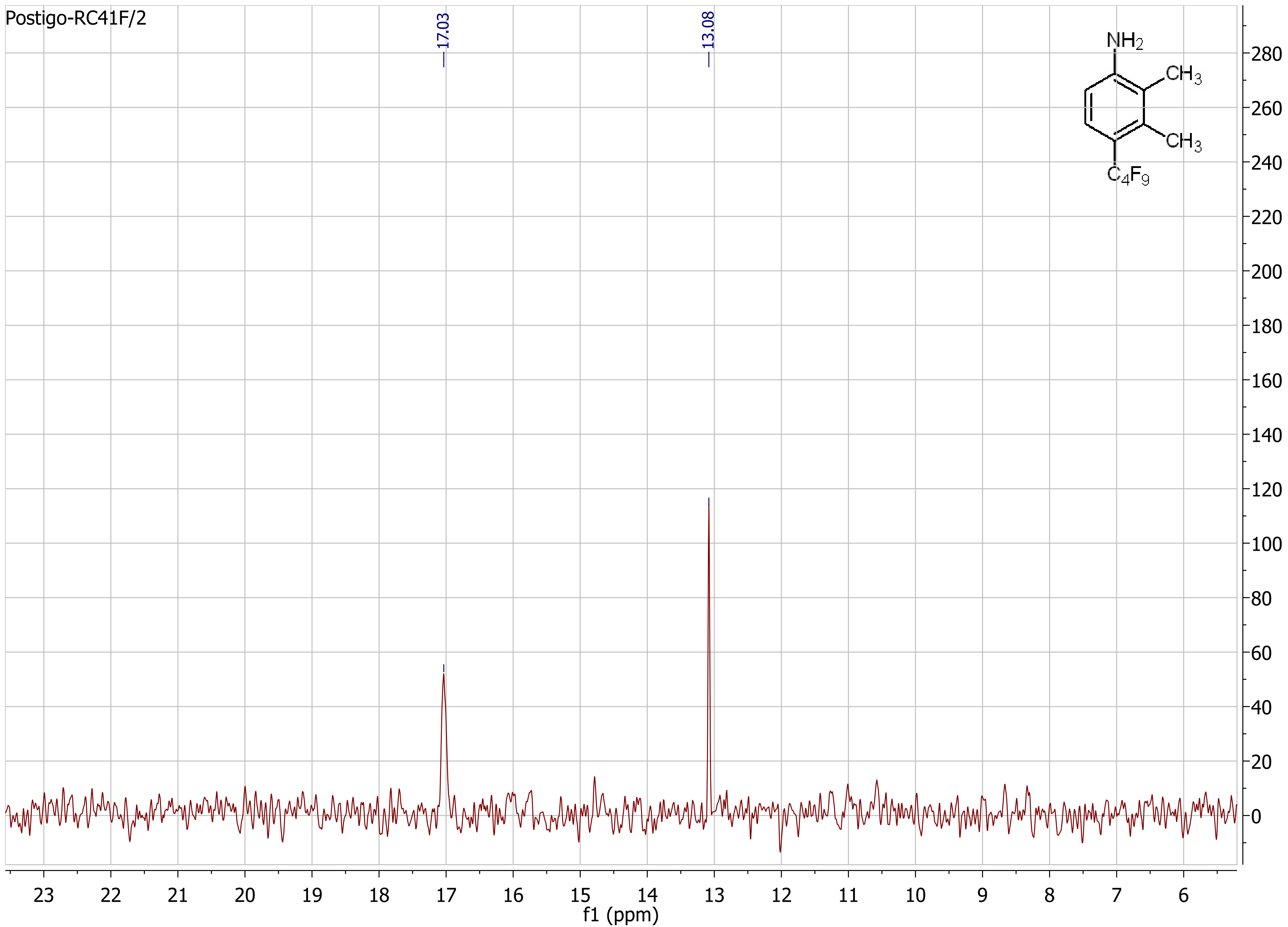
Postigo-RC41F/1
3.88
NH2
CH3
CH3
C4F9
1.99
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
f1 (ppm)
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0



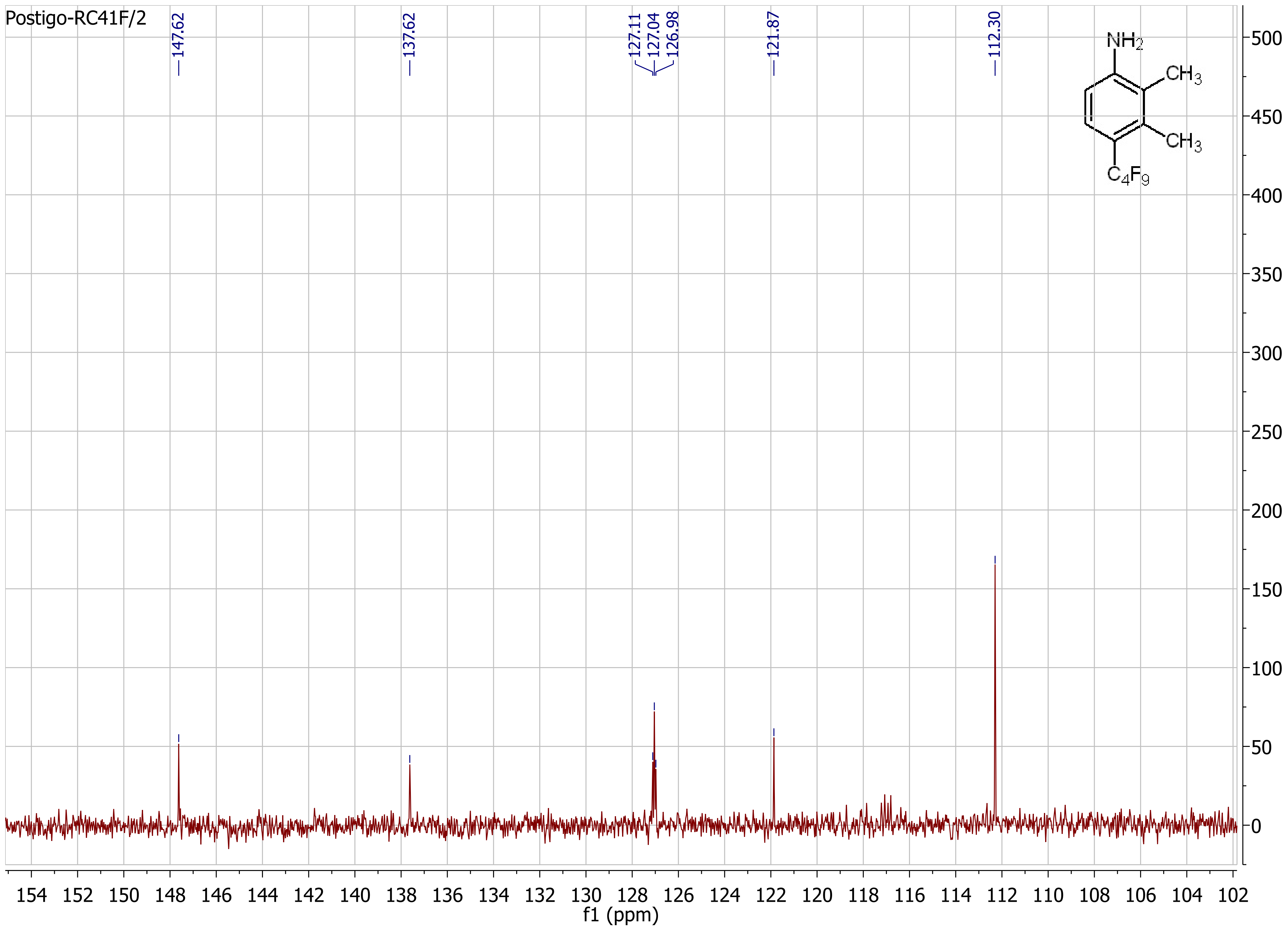
Postigo-RC41F/1
2.33
2.10
NH2
CH3
CH3
C4F9
3.26
3.15
f1 (ppm)

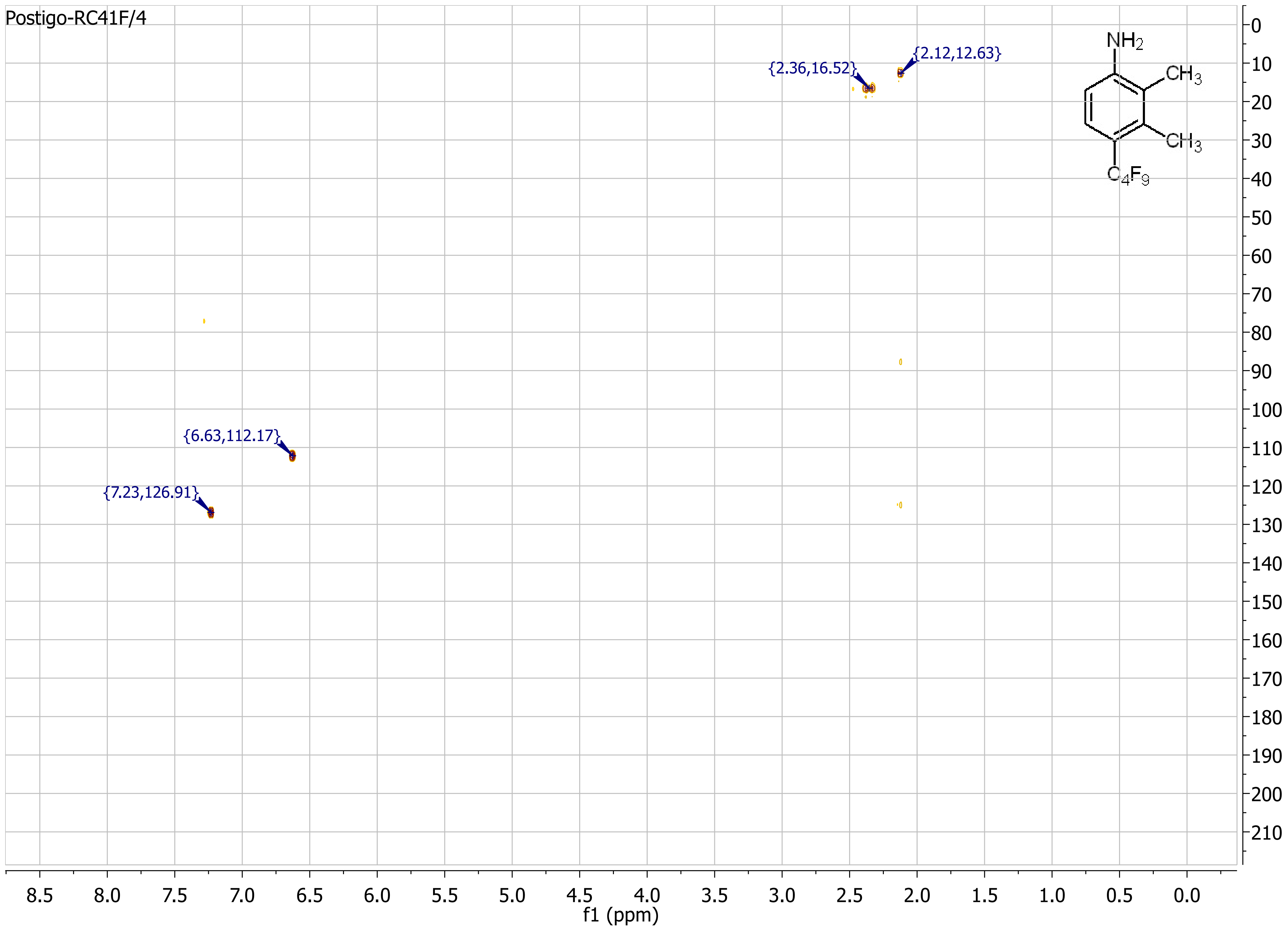


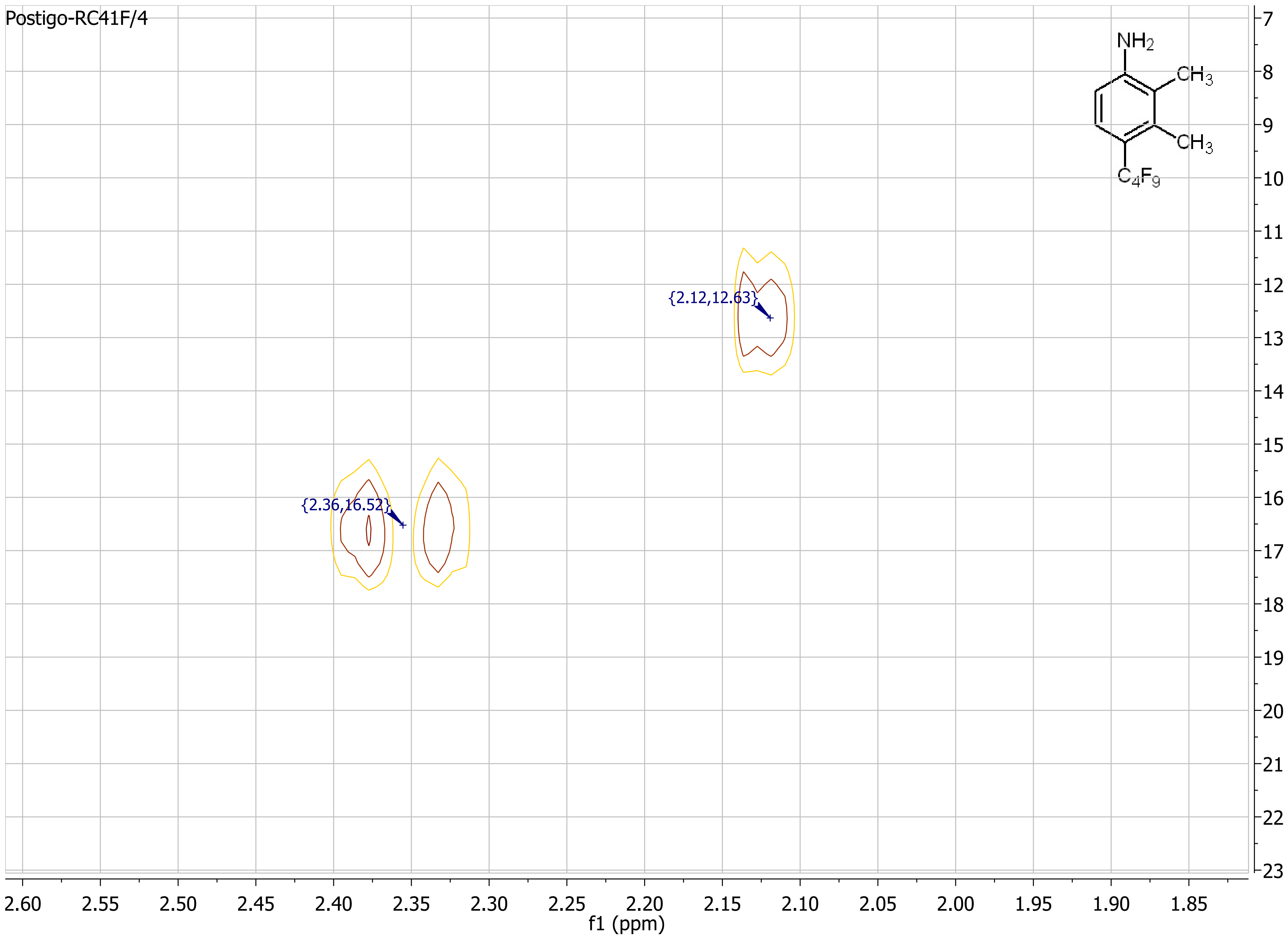
Postigo-RC41F/2
147.62
137.62
127.11
127.04
126.98
121.87
112.30
17.03
13.08
NH2
CH3
CH3
C4F9
f1 (ppm)

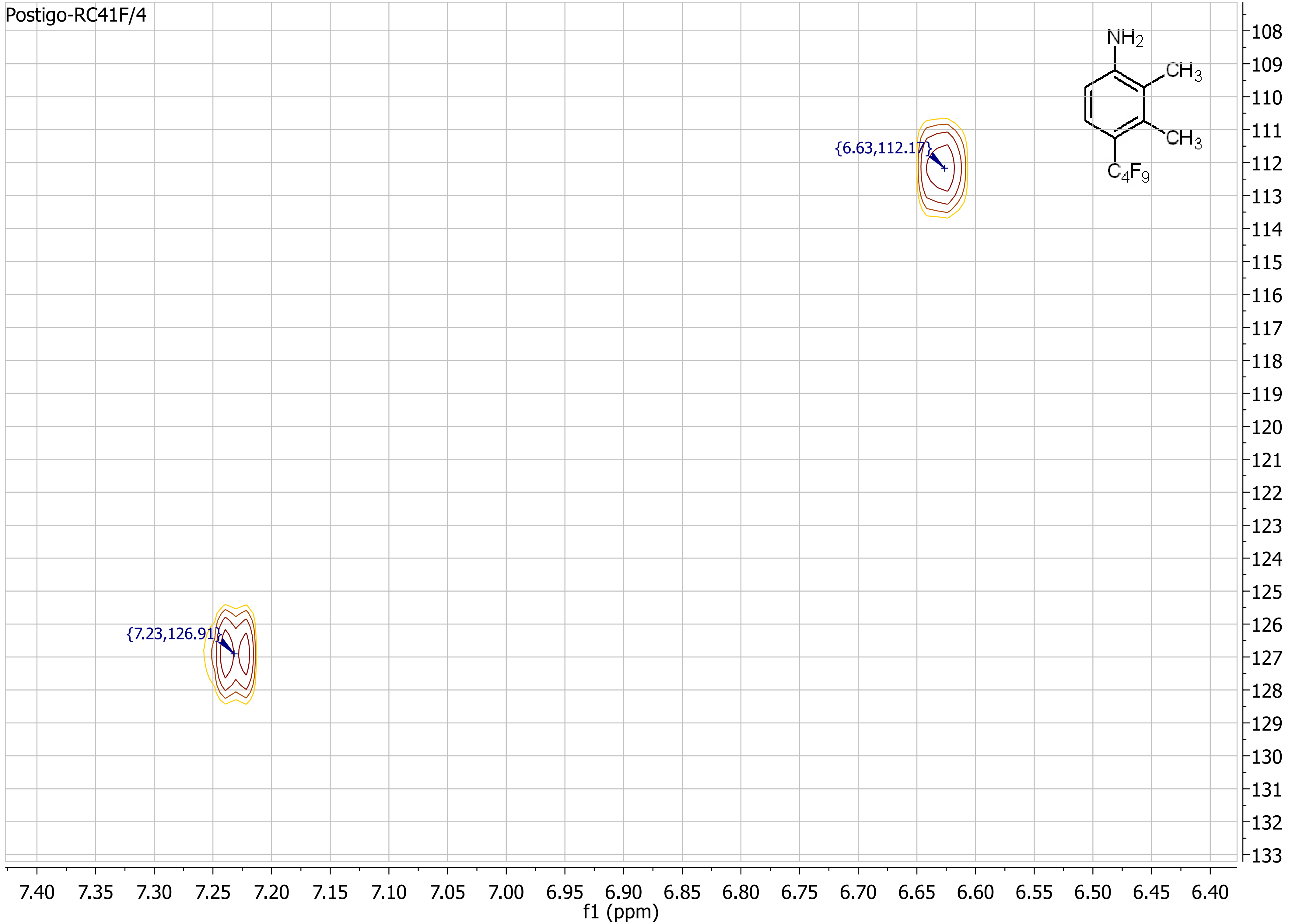


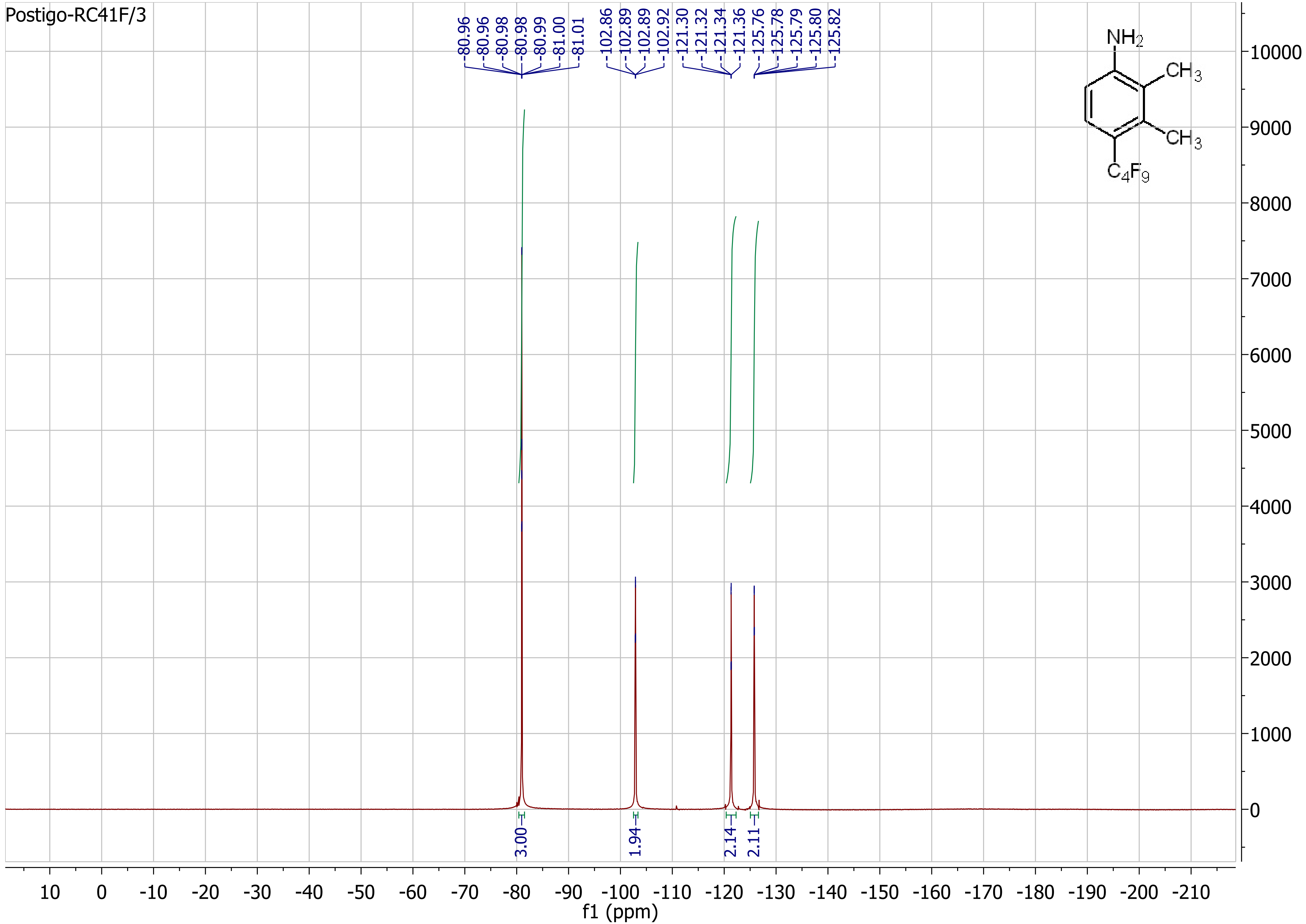
Postigo-RC41F/2
17.03
13.08
NH2
CH3
CH3
C4F9
f1 (ppm)

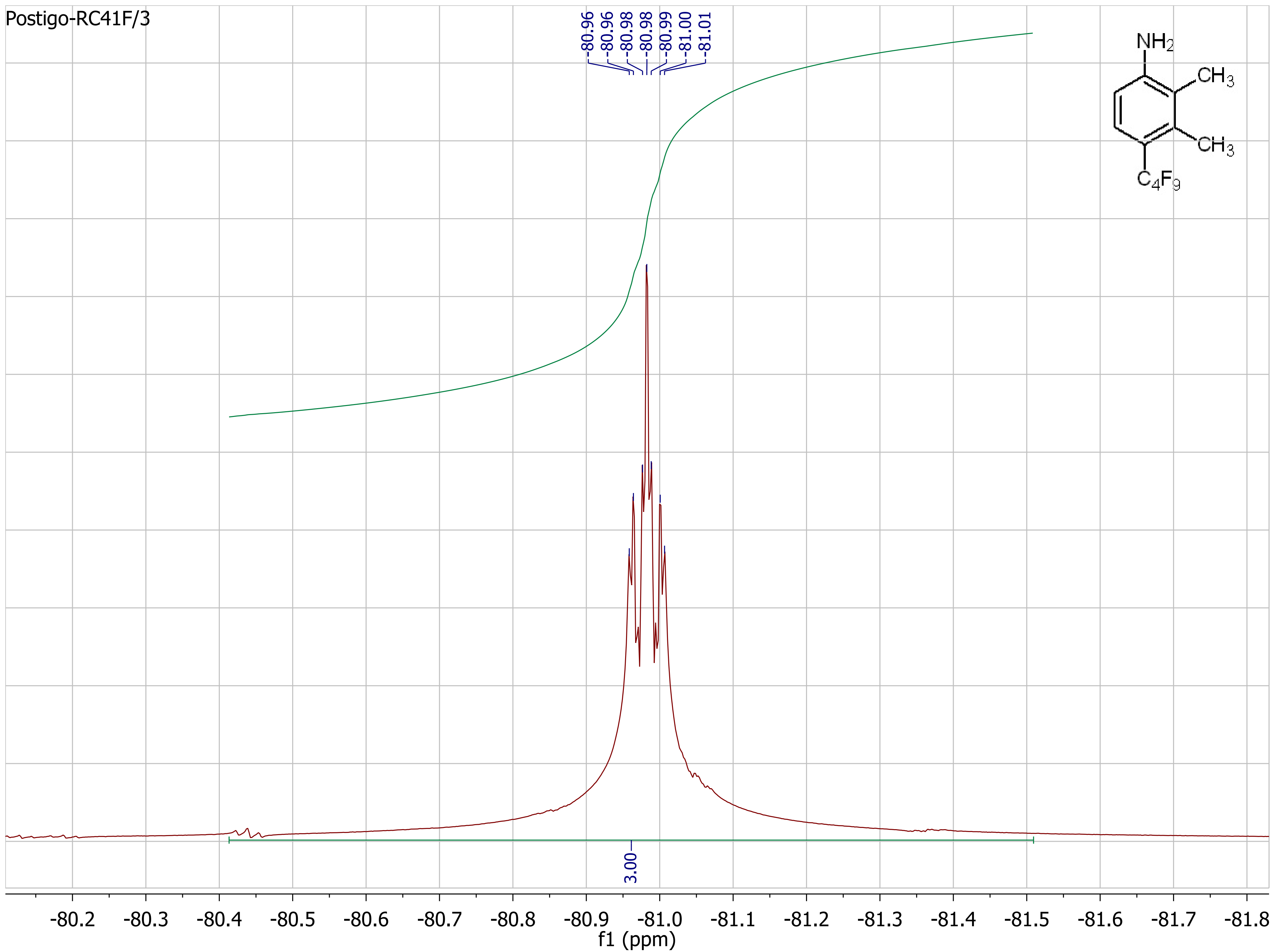

Postigo-RC41F/2
147.62
137.62
127.11
127.04
126.98
121.87
112.30
NH2
CH3
CH3
C4F9
f1 (ppm)


Postigo-RC41F/4
{2.36,16.52}
{2.12,12.63}
{6.63,112.17}
{7.23,126.91}
NH2
CH3
CH3
C4F9
f1 (ppm)

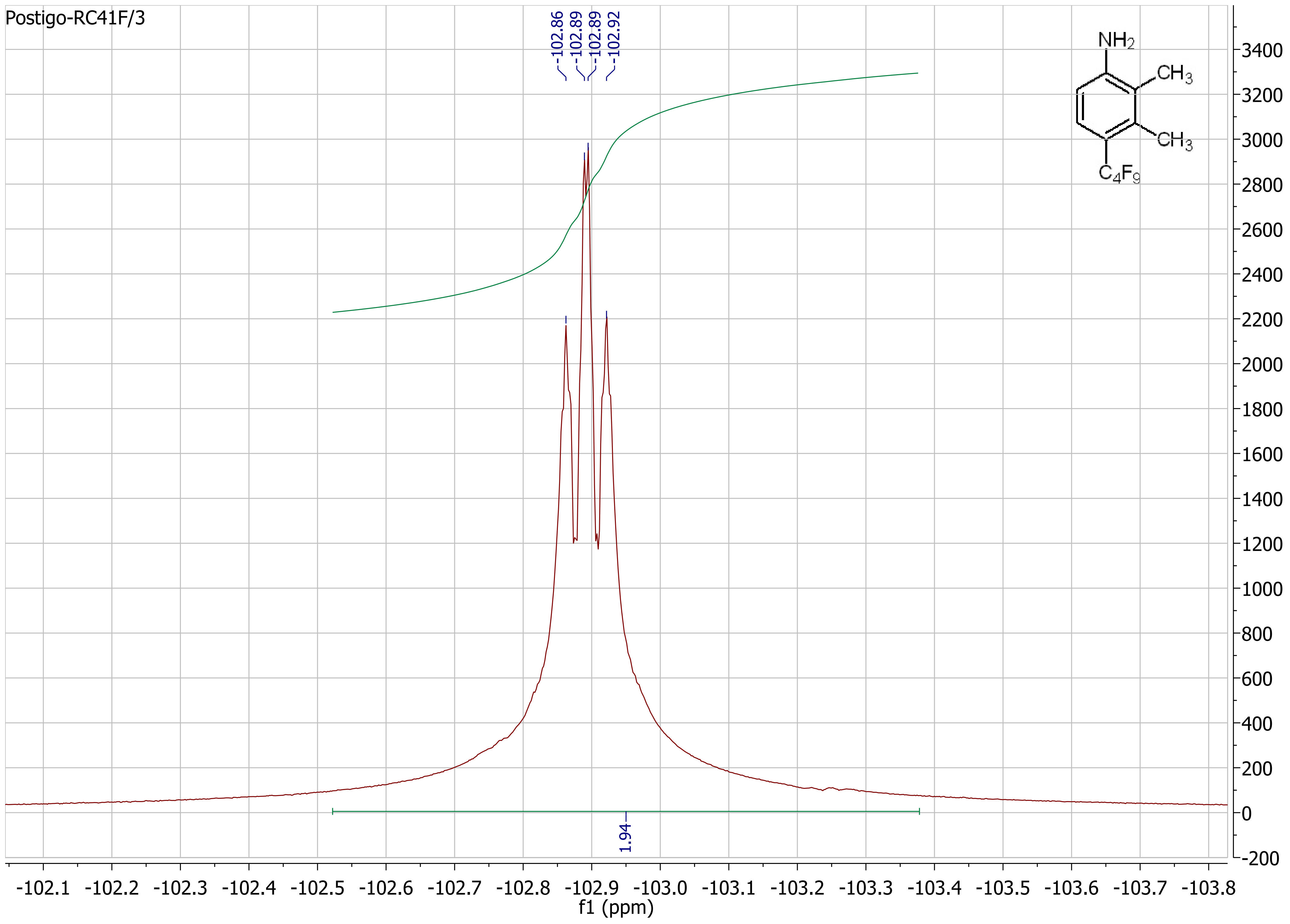

Postigo-RC41F/4
NH2
CH3
CH3
C4F9
{2.12,12.63}
{2.36,16.52}
2.60 2.55 2.50 2.45 2.40 2.35 2.30 2.25 2.20 2.15 2.10 2.05 2.00 1.95 1.90 1.85
f1 (ppm)
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23


Postigo-RC41F/4
{6.63,112.17}
{7.23,126.91}
NH2
CH3
CH3
C4F9
f1 (ppm)

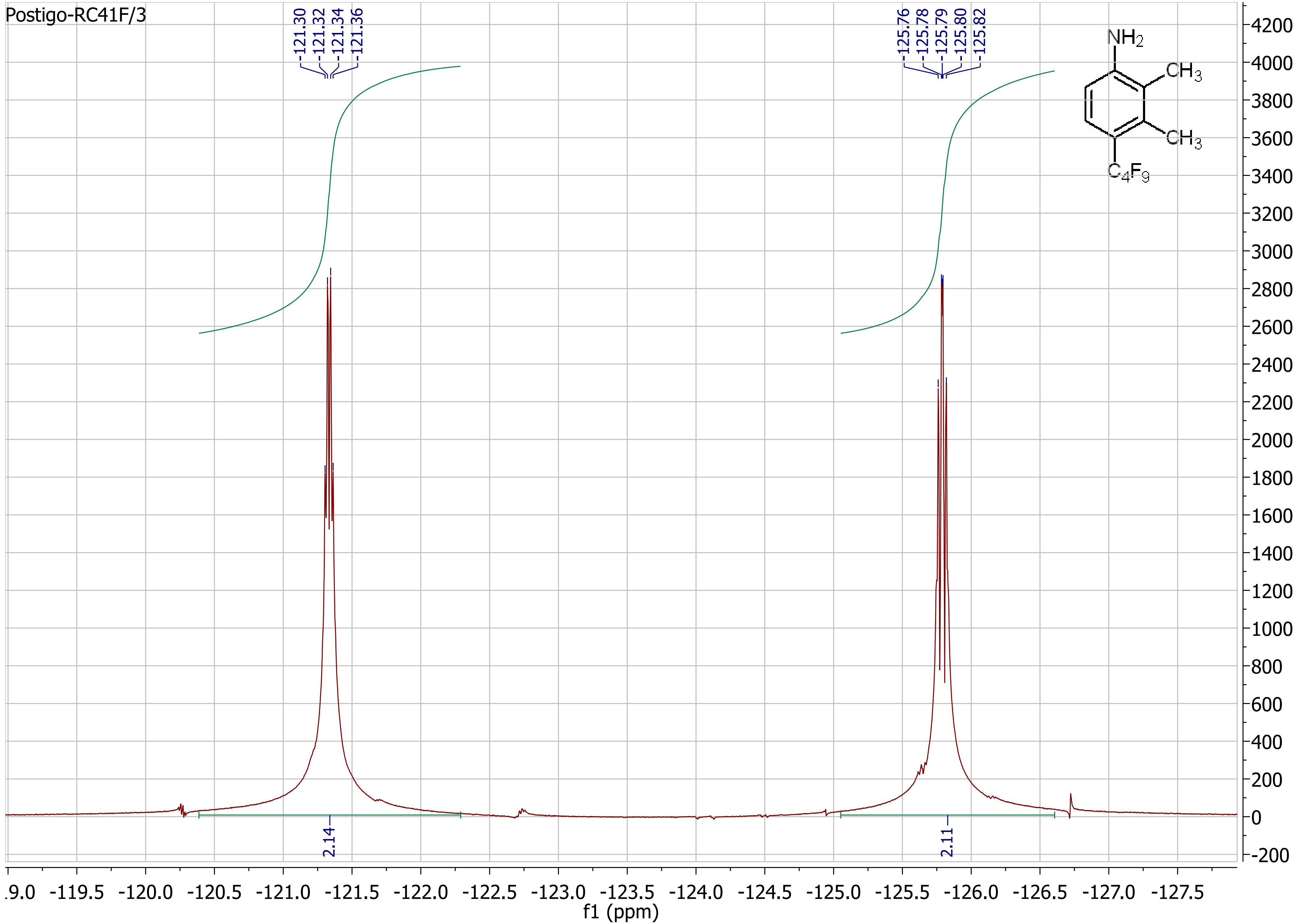

Postigo-RC41F/3
-80.96
-80.96
-80.98
-80.98
-80.99
-81.00
-81.01
-102.86
-102.89
-102.89
-102.92
-121.30
-121.32
-121.34
-121.36
-125.76
-125.78
-125.79
-125.80
-125.82
NH2
CH3
CH3
C4F9
3.00
1.94
2.14
2.11
f1 (ppm)



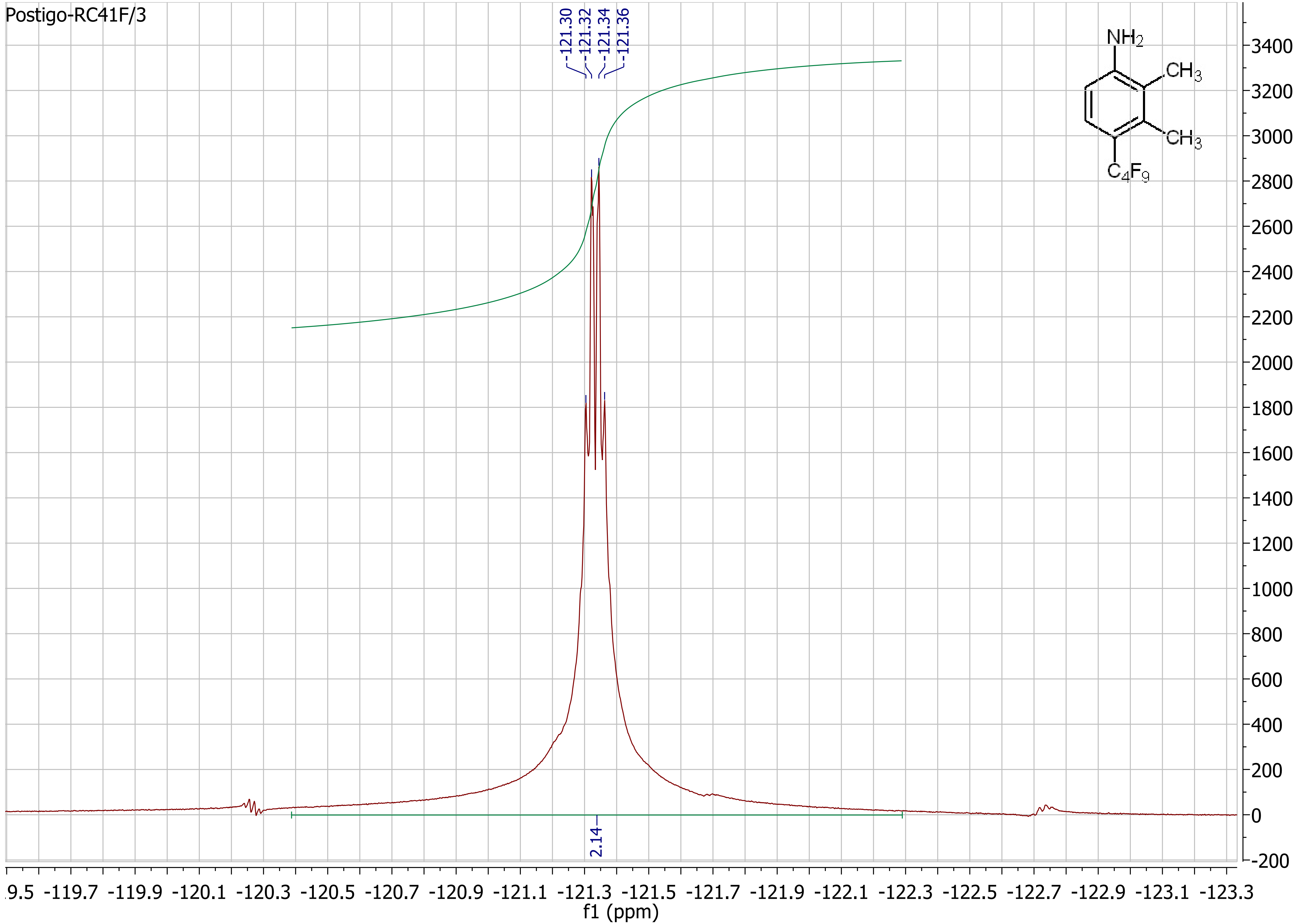
Postigo-RC41F/3
-80.96
-80.96
-80.98
-80.98
-80.99
-81.00
-81.01
NH2
CH3
CH3
C4F9
3.00
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-80.2 -80.3 -80.4 -80.5 -80.6 -80.7 -80.8 -80.9 -81.0 -81.1 -81.2 -81.3 -81.4 -81.5 -81.6 -81.7 -81.8
f1 (ppm)

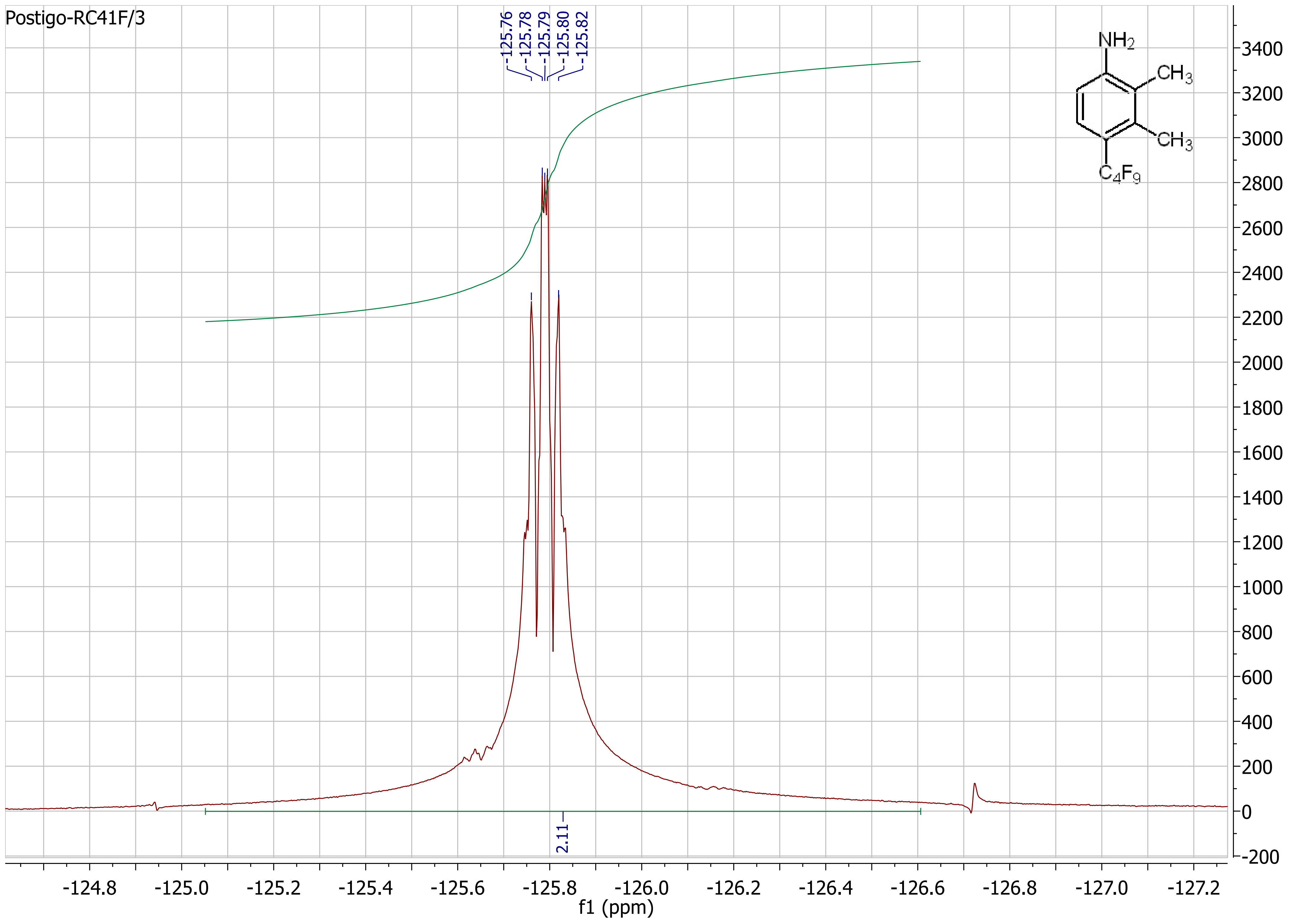


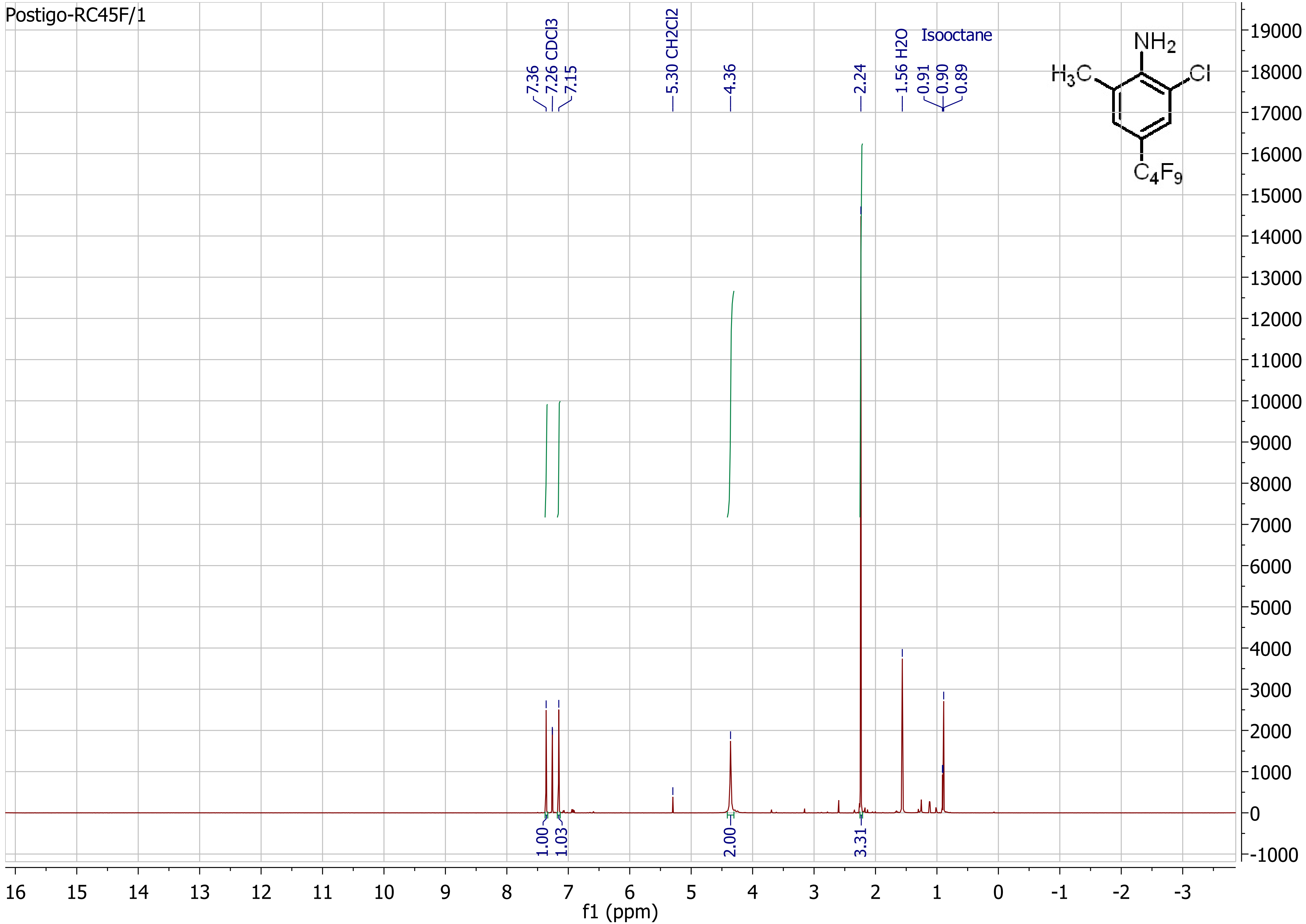
Postigo-RC41F/3
-102.86
-102.89
-102.89
-102.92
NH2
CH3
CH3
C4F9
1.94
-102.1 -102.2 -102.3 -102.4 -102.5 -102.6 -102.7 -102.8 -102.9 -103.0 -103.1 -103.2 -103.3 -103.4 -103.5 -103.6 -103.7 -103.8
f1 (ppm)
3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 800 600 400 200 0 -200



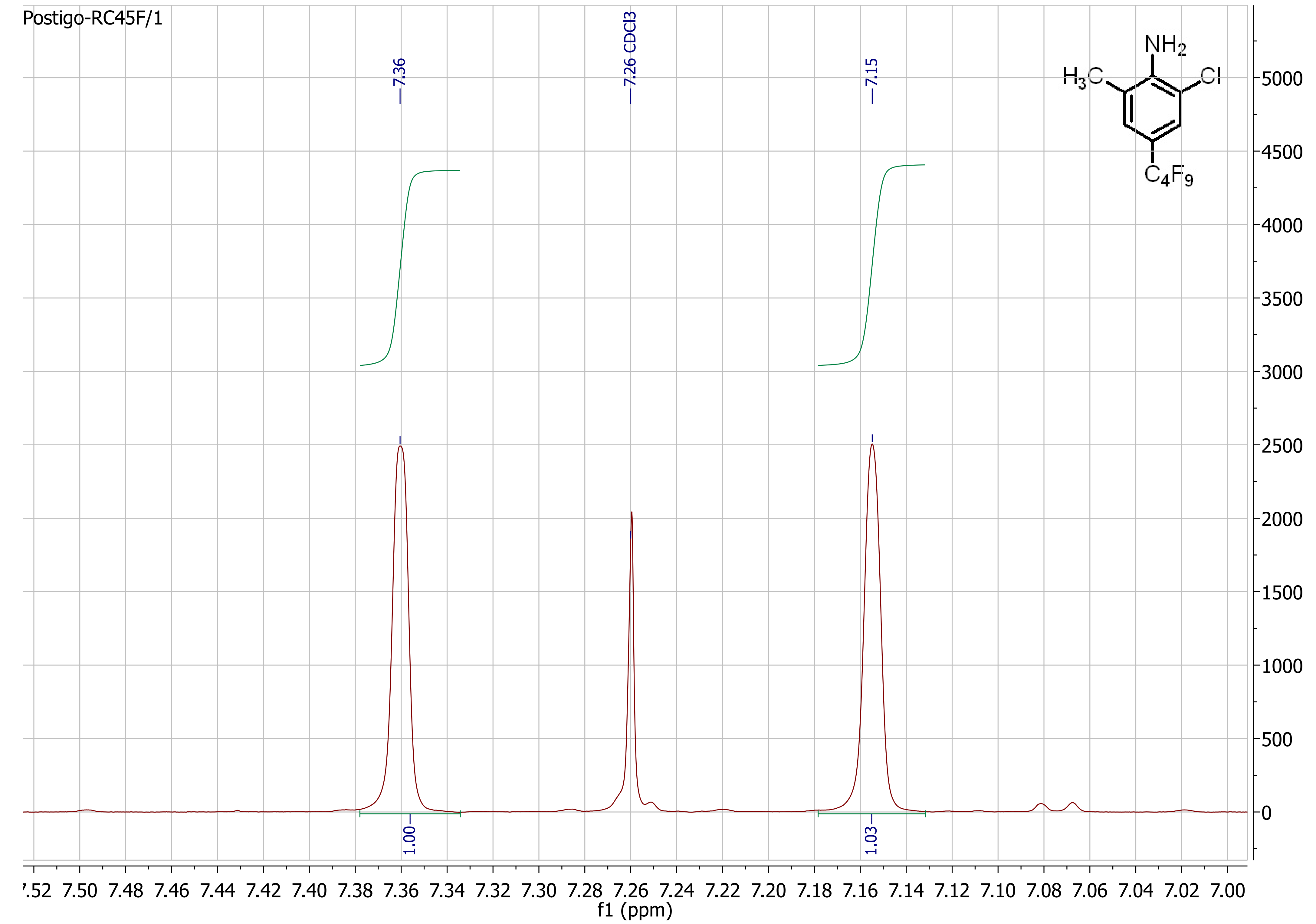
Postigo-RC41F/3
-121.30
-121.32
-121.34
-121.36
-125.76
-125.78
-125.79
-125.80
-125.82
NH2
CH3
CH3
C4F9
2.14
2.11
f1 (ppm)

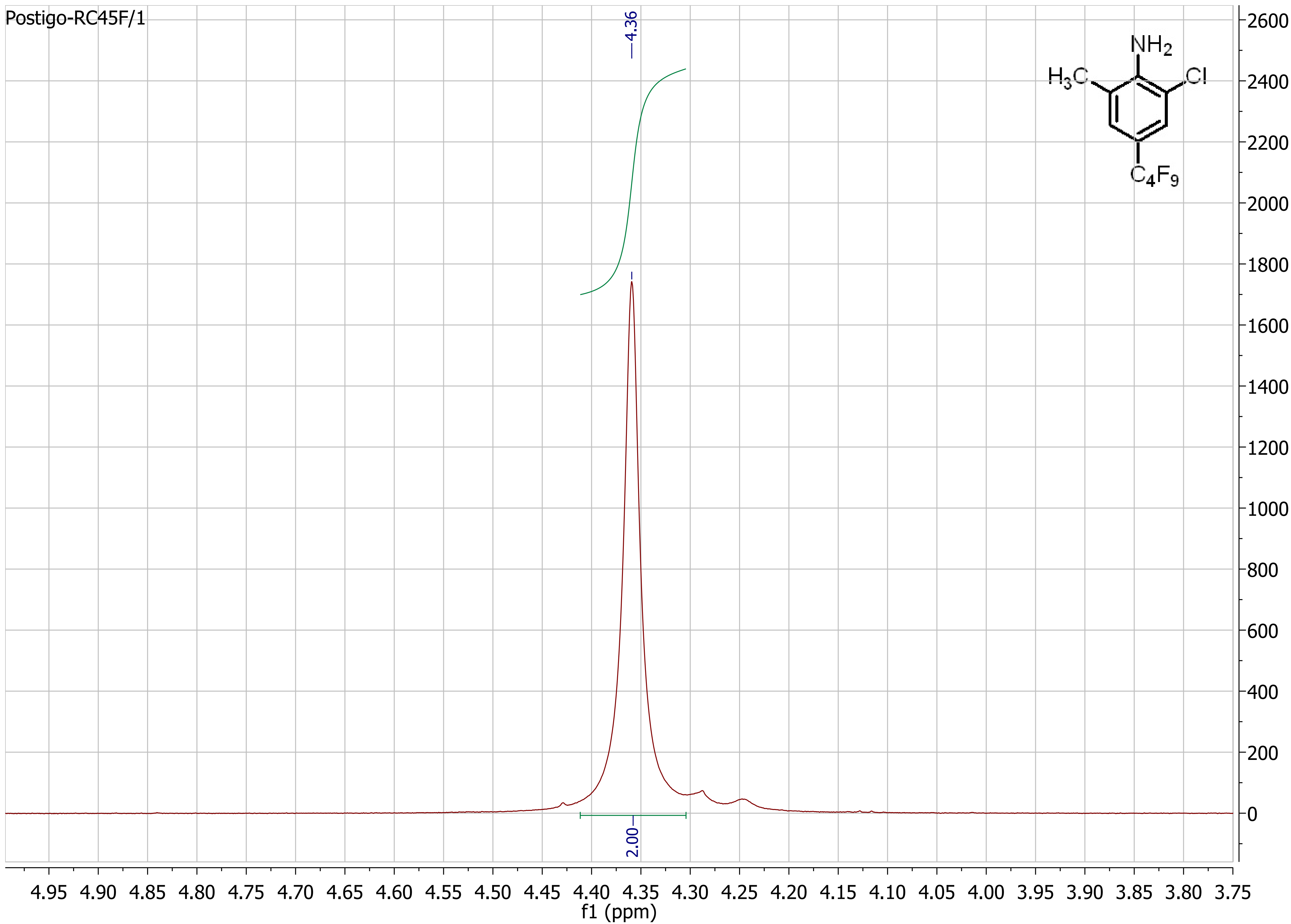

Postigo-RC41F/3
-121.30
-121.32
-121.34
-121.36
NH2
CH3
CH3
C4F9
2.14
f1 (ppm)


Postigo-RC41F/3
-125.76
-125.78
-125.79
-125.80
-125.82
NH2
CH3
CH3
C4F9
2.11
-124.8
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
-127.0
-127.2
f1 (ppm)
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200

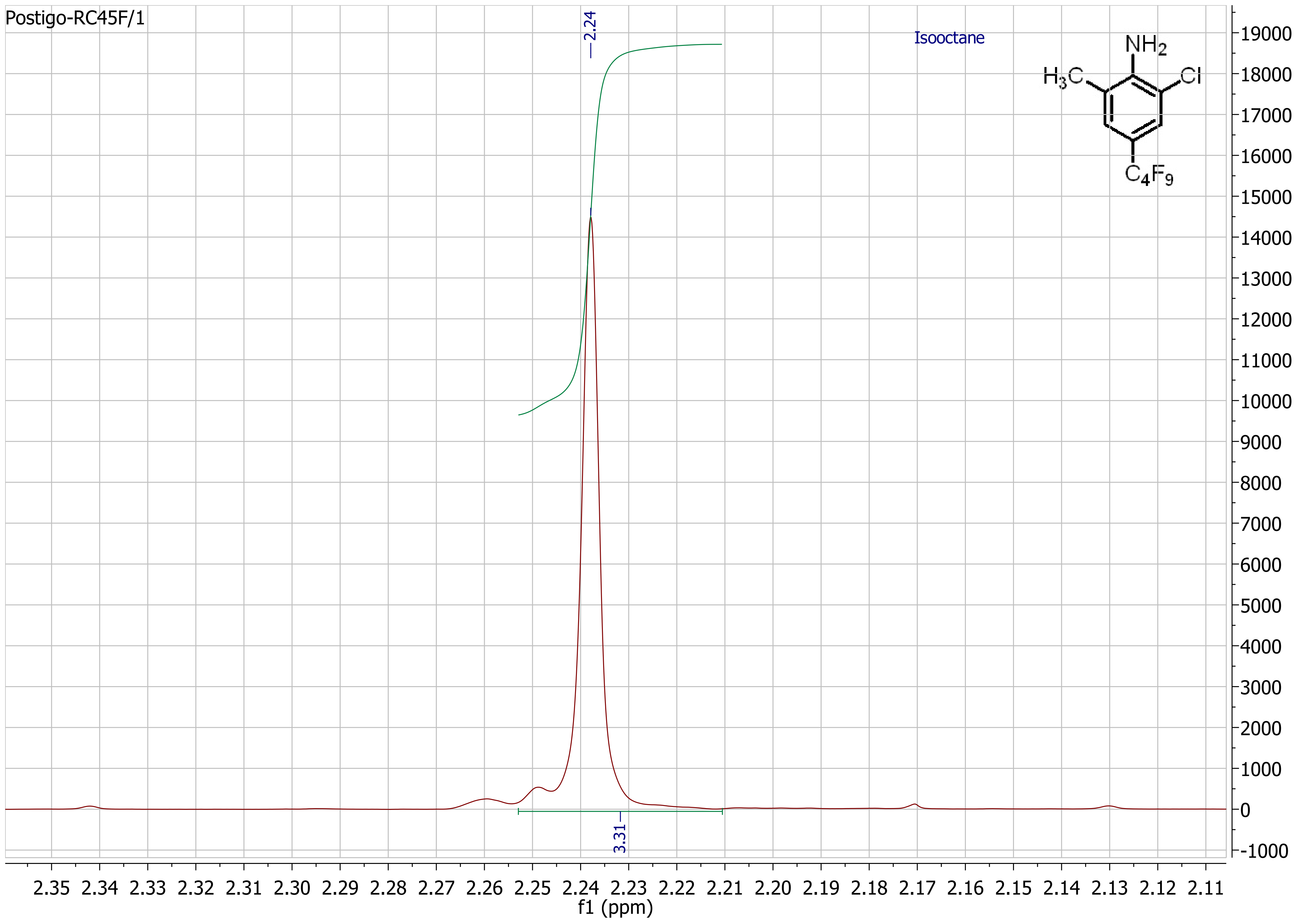


Postigo-RC45F/1
7.36
7.26 CDCl3
7.15
5.30 CH2Cl2
4.36
2.24
1.56 H2O
Isooctane
0.91
0.90
0.89
NH2
H3C
Cl
C4F9
1.00
1.03
2.00
3.31
f1 (ppm)

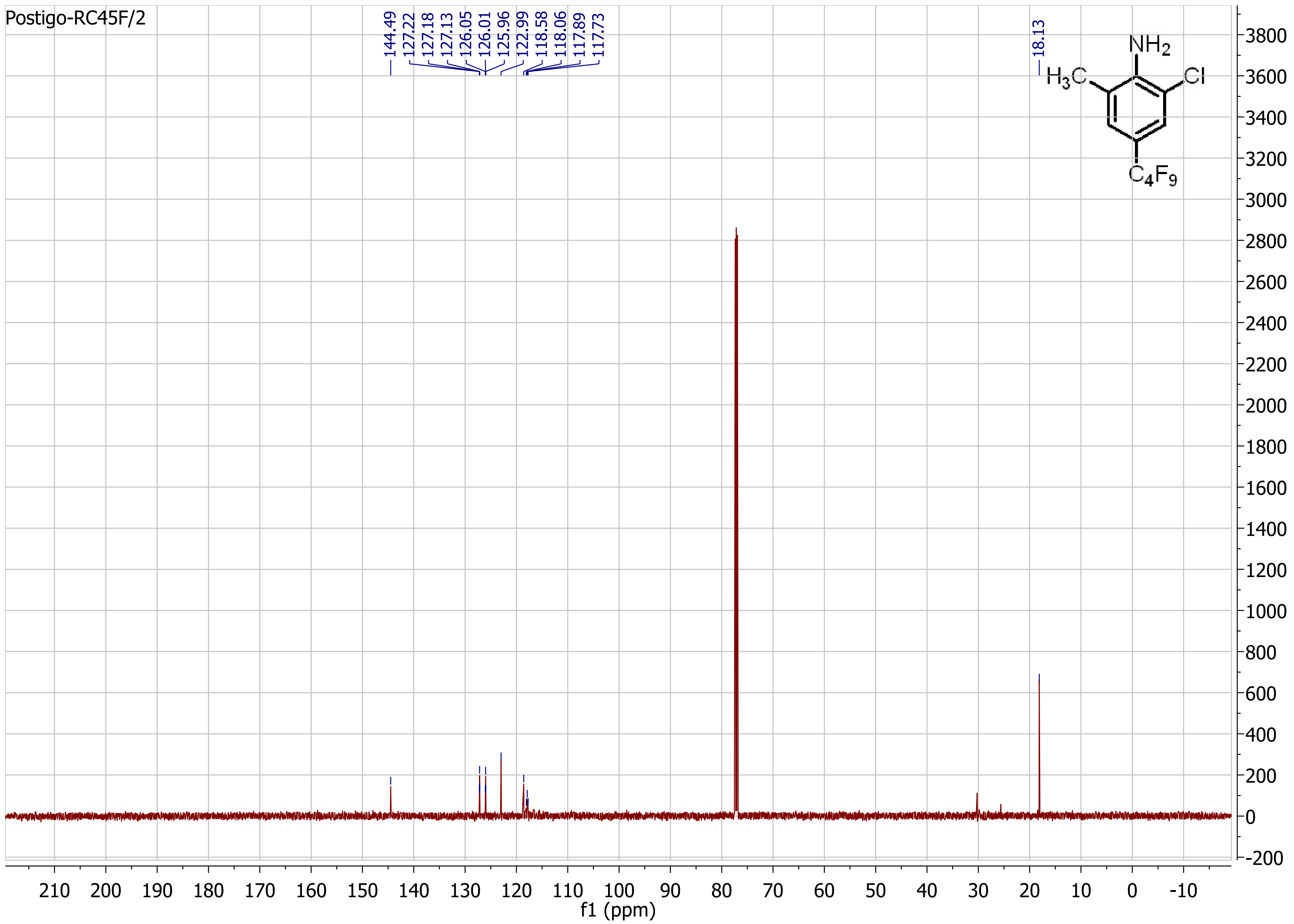

Postigo-RC45F/1
7.36
7.26 CDCl3
7.15
NH2
H3C
Cl
C4F9
1.00
1.03
f1 (ppm)



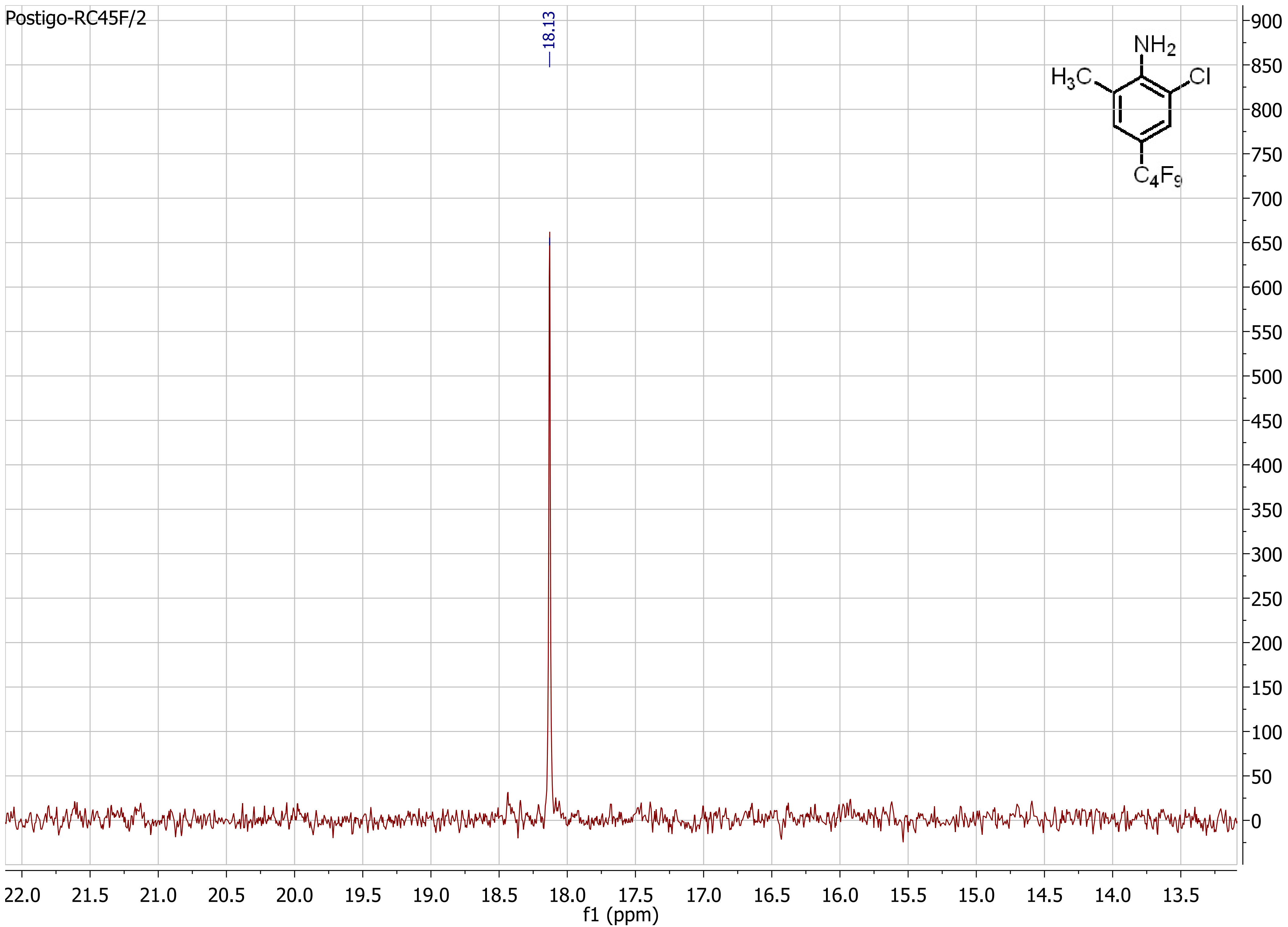
Postigo-RC45F/1
4.36
2.00
f1 (ppm)
NH2
H3C
Cl
C4F9

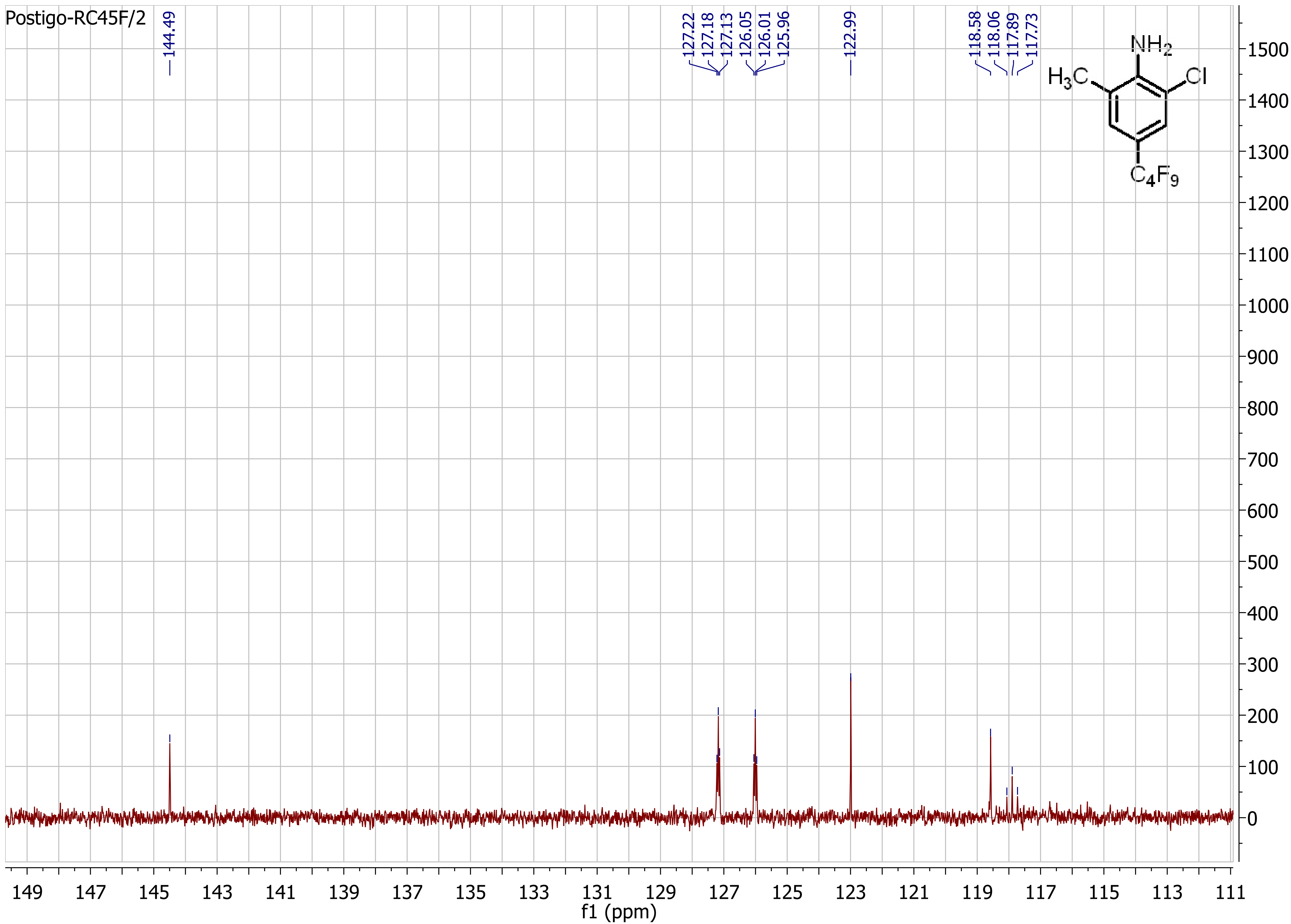


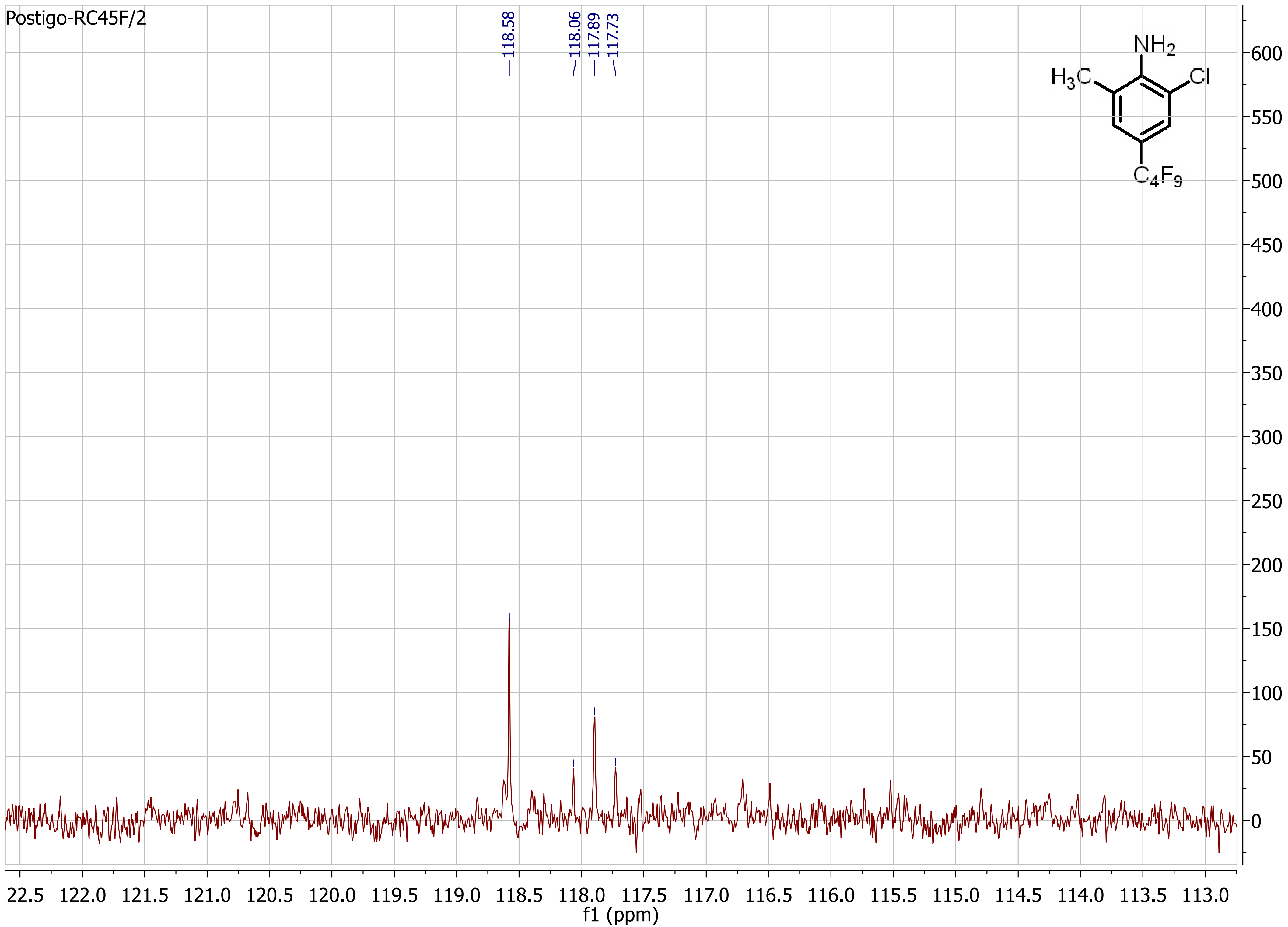
Postigo-RC45F/1
2.24
Isooctane
NH2
H3C
Cl
C4F9
3.31
2.35 2.34 2.33 2.32 2.31 2.30 2.29 2.28 2.27 2.26 2.25 2.24 2.23 2.22 2.21 2.20 2.19 2.18 2.17 2.16 2.15 2.14 2.13 2.12 2.11
f1 (ppm)
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-1000



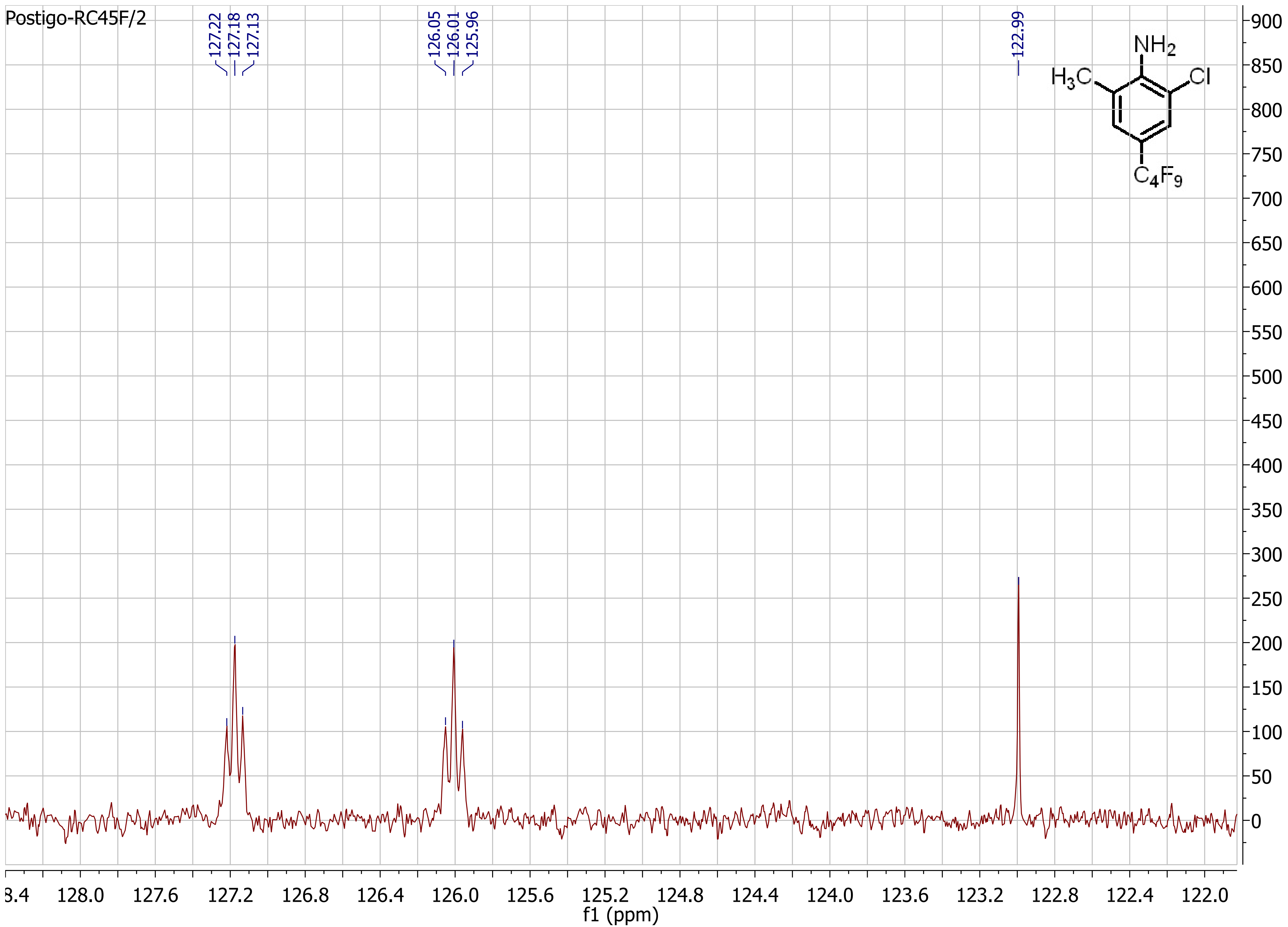
Postigo-RC45F/2
144.49
127.22
127.18
127.13
126.05
126.01
125.96
122.99
118.58
118.06
117.89
117.73
18.13
NH2
H3C
Cl
C4F9
f1 (ppm)


Postigo-RC45F/2
18.13
NH2
H3C
Cl
C4F9
f1 (ppm)

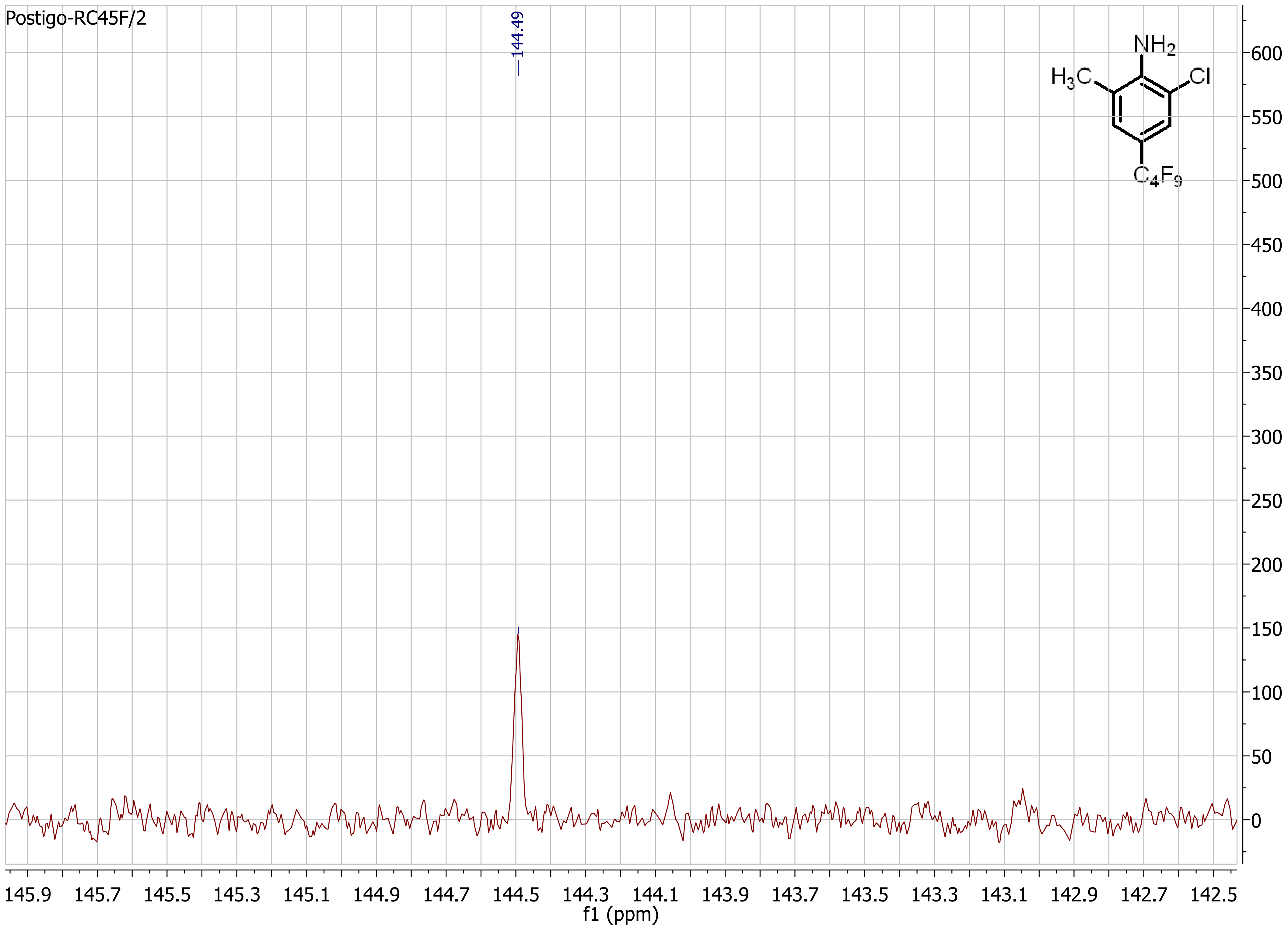

Postigo-RC45F/2
144.49
127.22
127.18
127.13
126.05
126.01
125.96
122.99
118.58
118.06
117.89
117.73
NH2
H3C
Cl
C4F9
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
149
147
145
143
141
139
137
135
133
131
129
127
125
123
121
119
117
115
113
111
f1 (ppm)



Postigo-RC45F/2
118.58
118.06
117.89
117.73
NH2
H3C
Cl
C4F9
f1 (ppm)

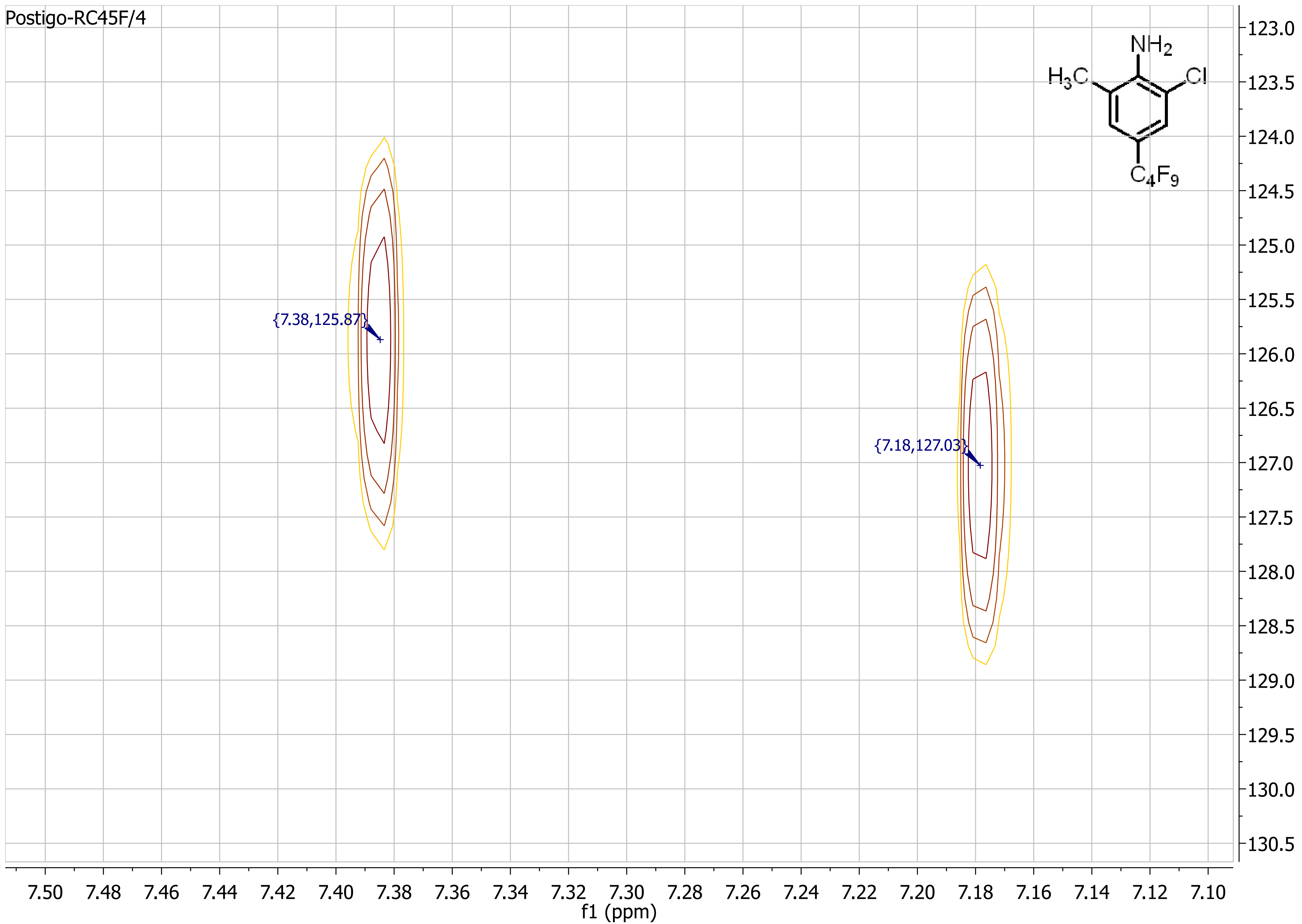


Postigo-RC45F/2
127.22
127.18
127.13
126.05
126.01
125.96
122.99
NH2
H3C
Cl
C4F9
f1 (ppm)

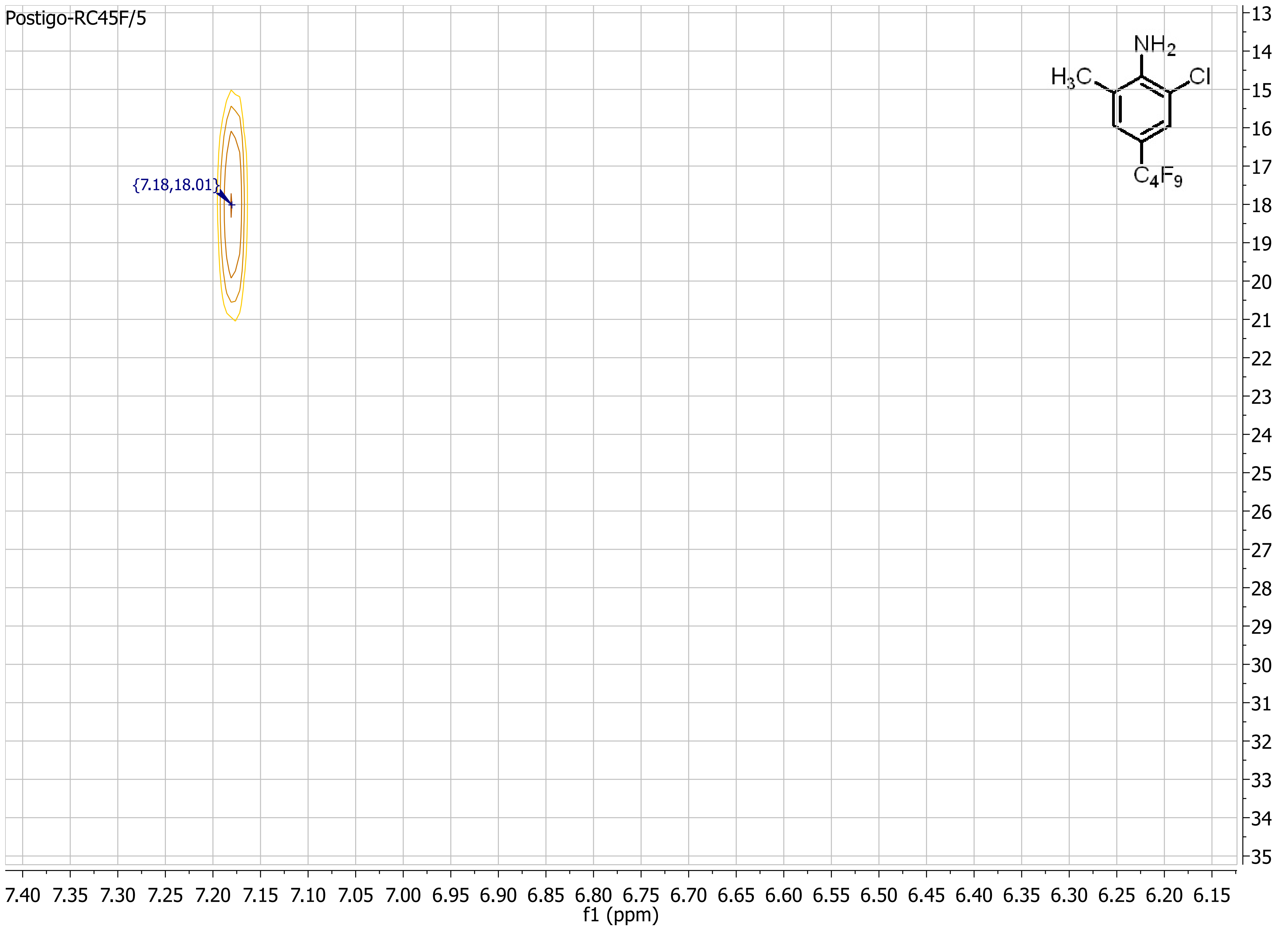


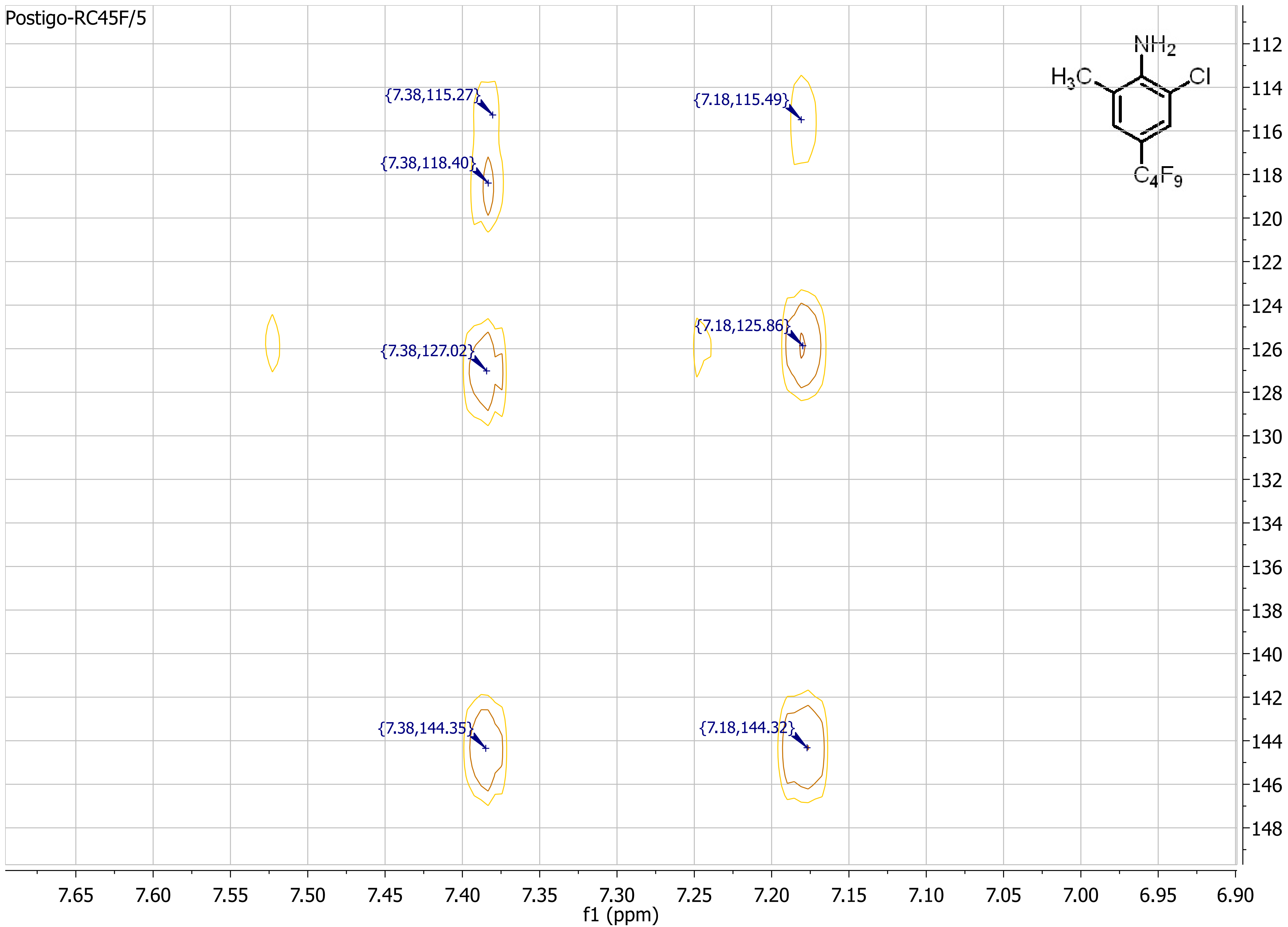
Postigo-RC45F/2
144.49
NH2
H3C
Cl
C4F9
600
550
500
450
400
350
300
250
200
150
100
50
0
145.9 145.7 145.5 145.3 145.1 144.9 144.7 144.5 144.3 144.1 143.9 143.7 143.5 143.3 143.1 142.9 142.7 142.5
f1 (ppm)

Postigo-RC45F/4
{2.26,17.70}
{7.18,127.03}
{7.38,125.87}
NH_2
H_3C
Cl
C_4F_9
f1 (ppm)

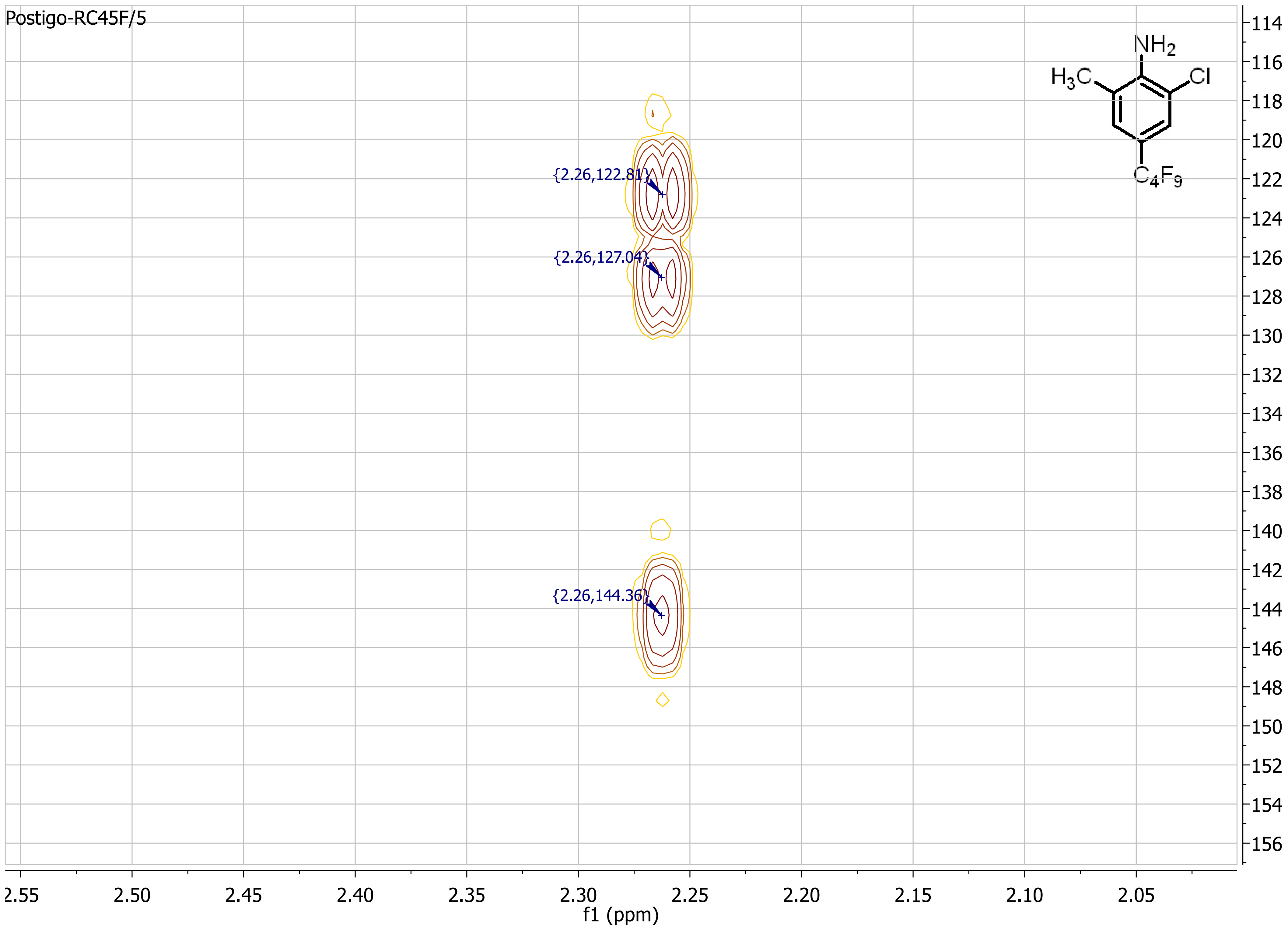


Postigo-RC45F/4
NH2
H3C
Cl
C4F9
{7.38,125.87}
{7.18,127.03}
7.50
7.48
7.46
7.44
7.42
7.40
7.38
7.36
7.34
7.32
7.30
7.28
7.26
7.24
7.22
7.20
7.18
7.16
7.14
7.12
7.10
f1 (ppm)
123.0
123.5
124.0
124.5
125.0
125.5
126.0
126.5
127.0
127.5
128.0
128.5
129.0
129.5
130.0
130.5

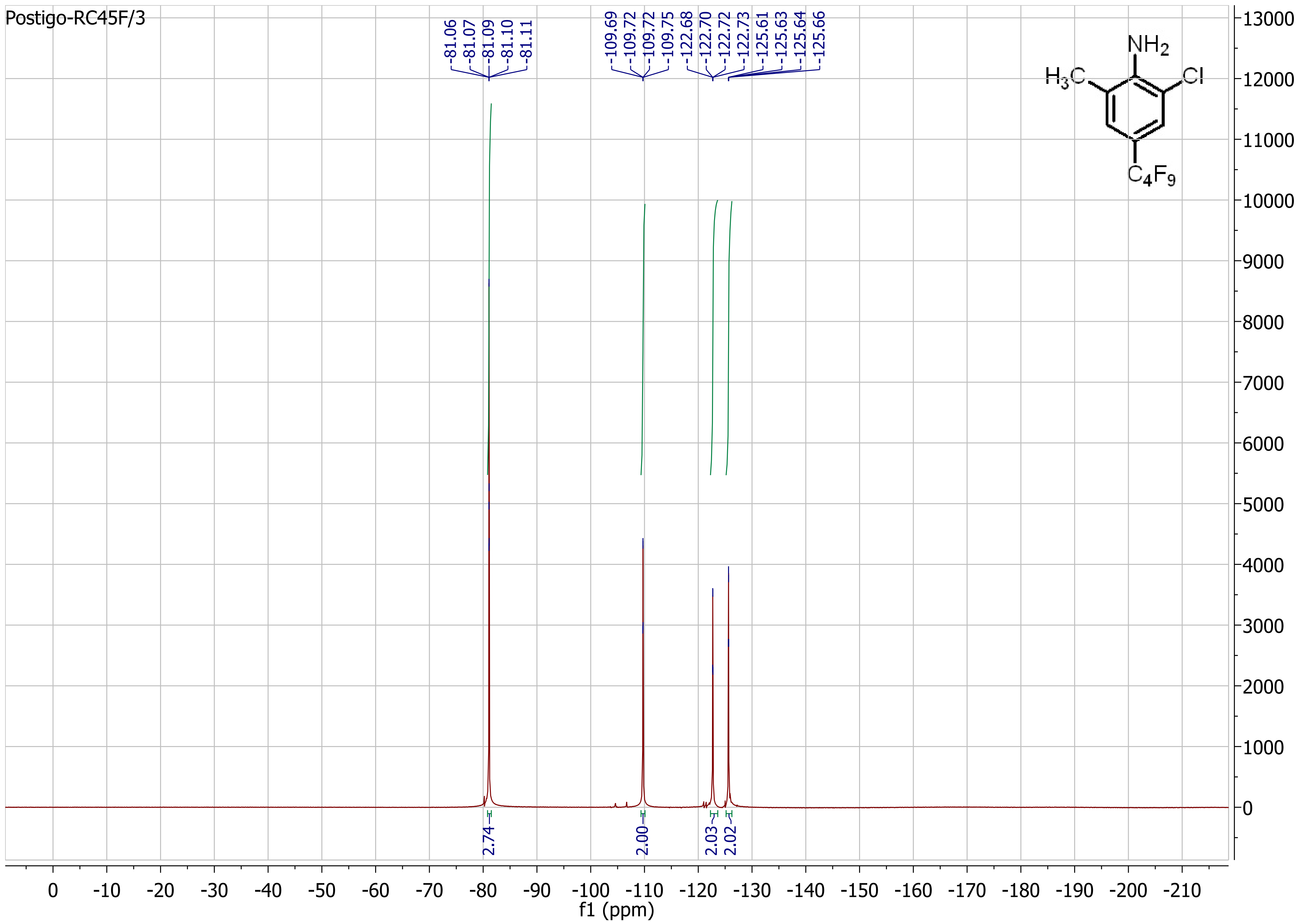

Postigo-RC45F/5
{7.18,18.01}
NH2
H3C
Cl
C4F9
f1 (ppm)
7.40 7.35 7.30 7.25 7.20 7.15 7.10 7.05 7.00 6.95 6.90 6.85 6.80 6.75 6.70 6.65 6.60 6.55 6.50 6.45 6.40 6.35 6.30 6.25 6.20 6.15
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35



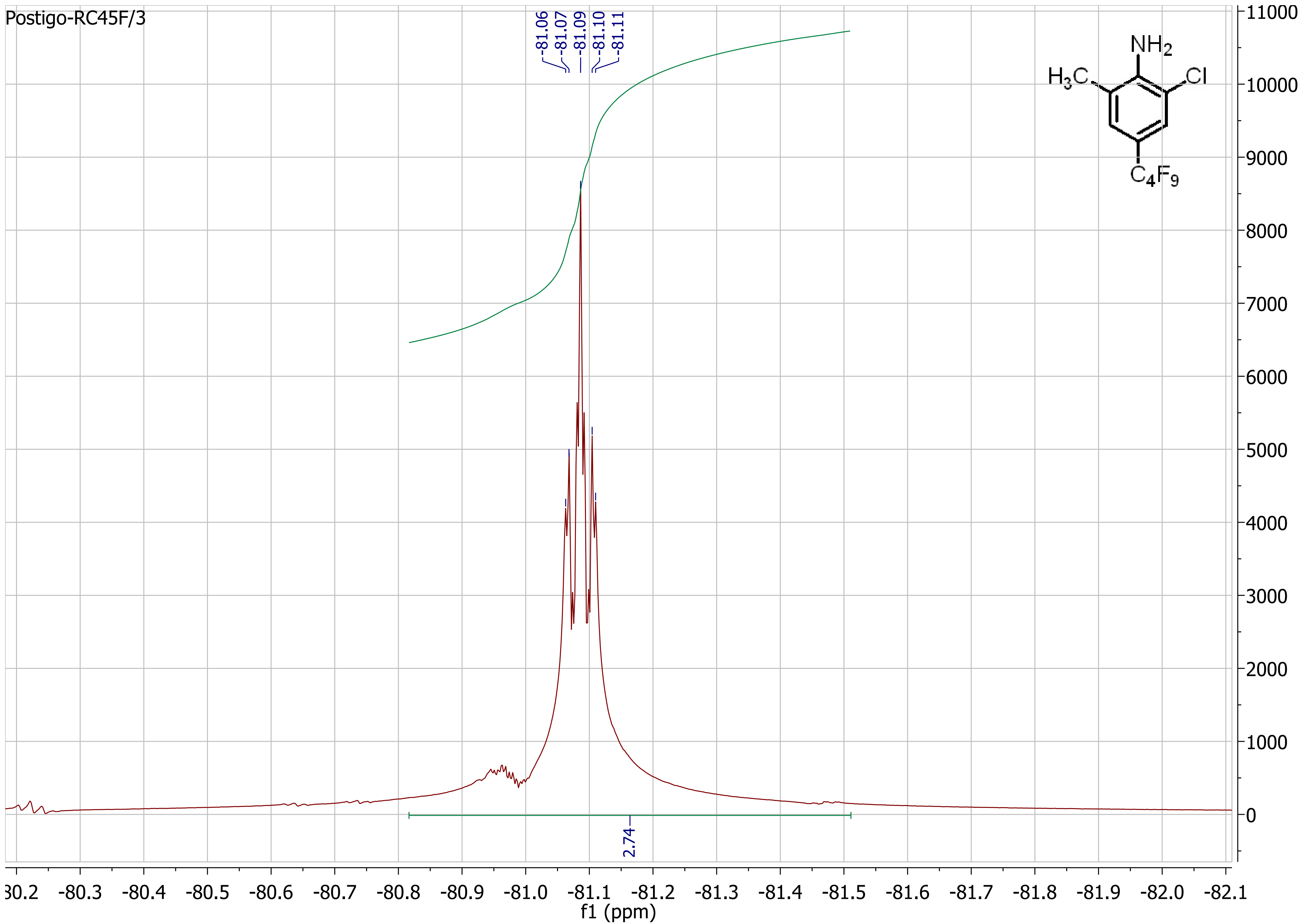
Postigo-RC45F/5
{7.38,115.27}
{7.18,115.49}
{7.38,118.40}
{7.18,125.86}
{7.38,127.02}
{7.38,144.35}
{7.18,144.32}
NH2
H3C
Cl
C4F9
f1 (ppm)



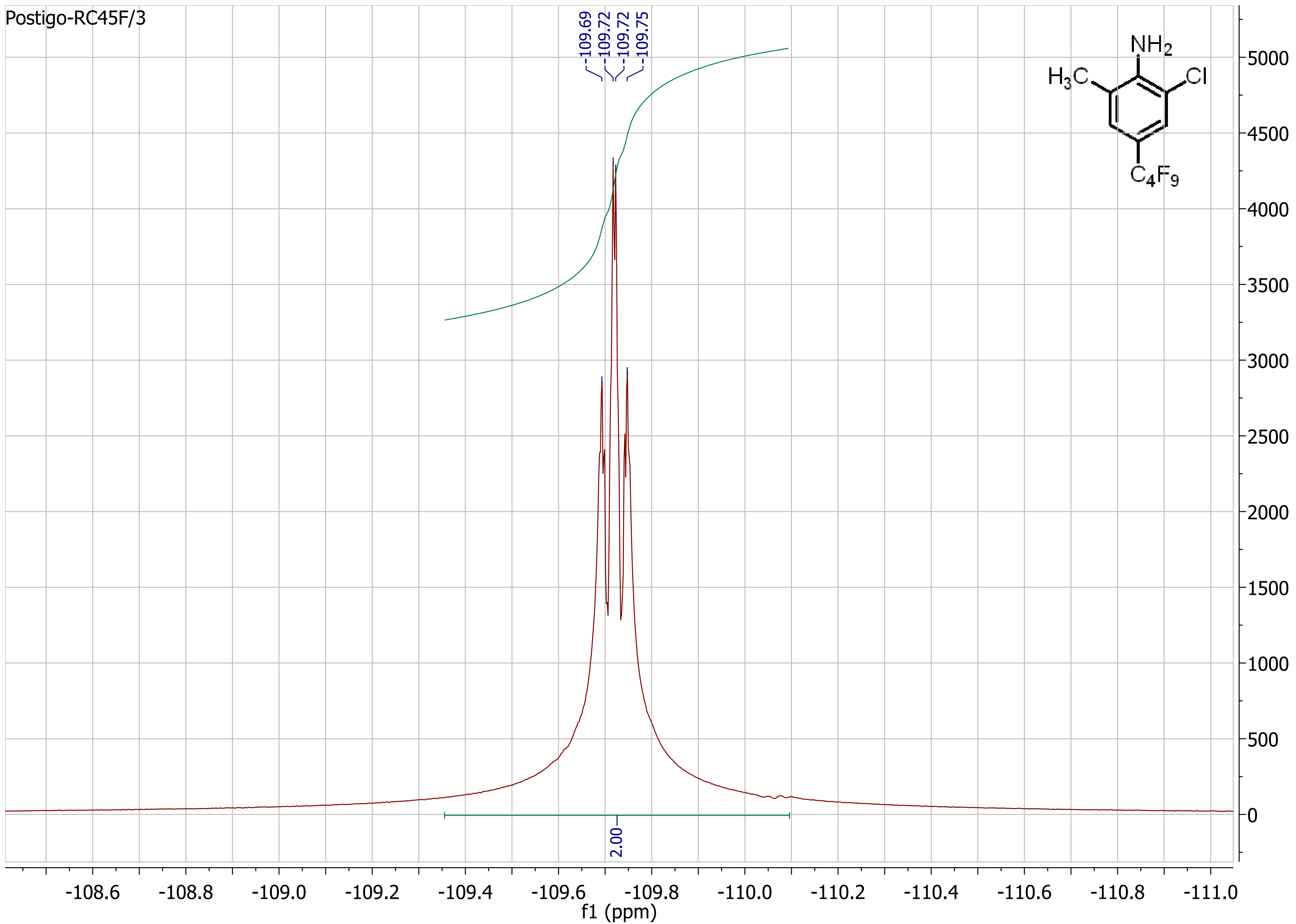
Postigo-RC45F/5
{2.26,122.81}
{2.26,127.04}
{2.26,144.36}
NH2
H3C
Cl
C4F9
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144
146
148
150
152
154
156
2.55
2.50
2.45
2.40
2.35
2.30
2.25
2.20
2.15
2.10
2.05
f1 (ppm)



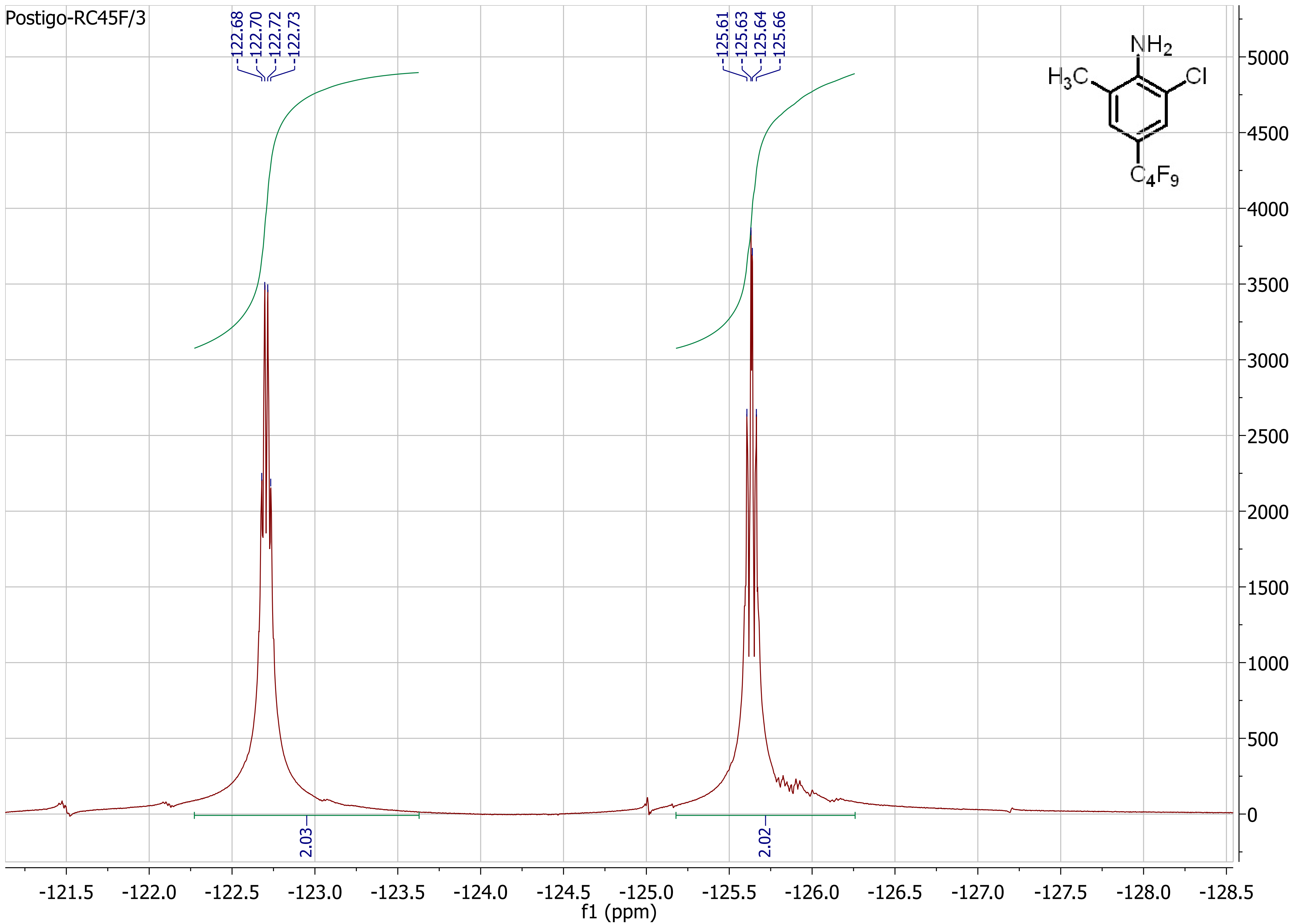
Postigo-RC45F/3
-81.06
-81.07
-81.09
-81.10
-81.11
-109.69
-109.72
-109.72
-109.75
-122.68
-122.70
-122.72
-122.72
-122.73
-125.61
-125.63
-125.64
-125.66
NH2
H3C
Cl
C4F9
2.74
2.00
2.03
2.02
f1 (ppm)



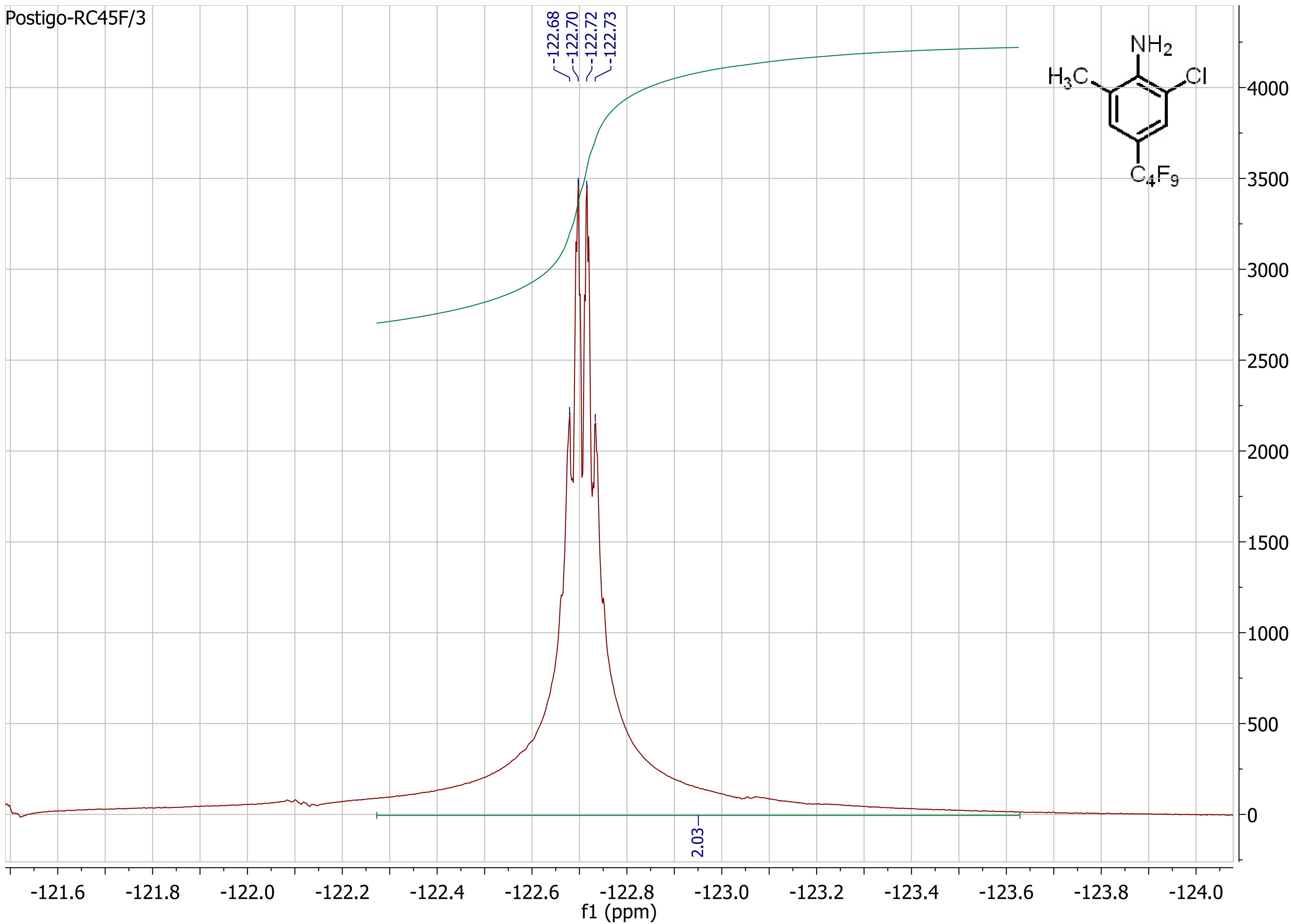
Postigo-RC45F/3
-81.06
-81.07
-81.09
-81.10
-81.11
NH_2
H_3C
Cl
C_4F_9
2.74
f1 (ppm)



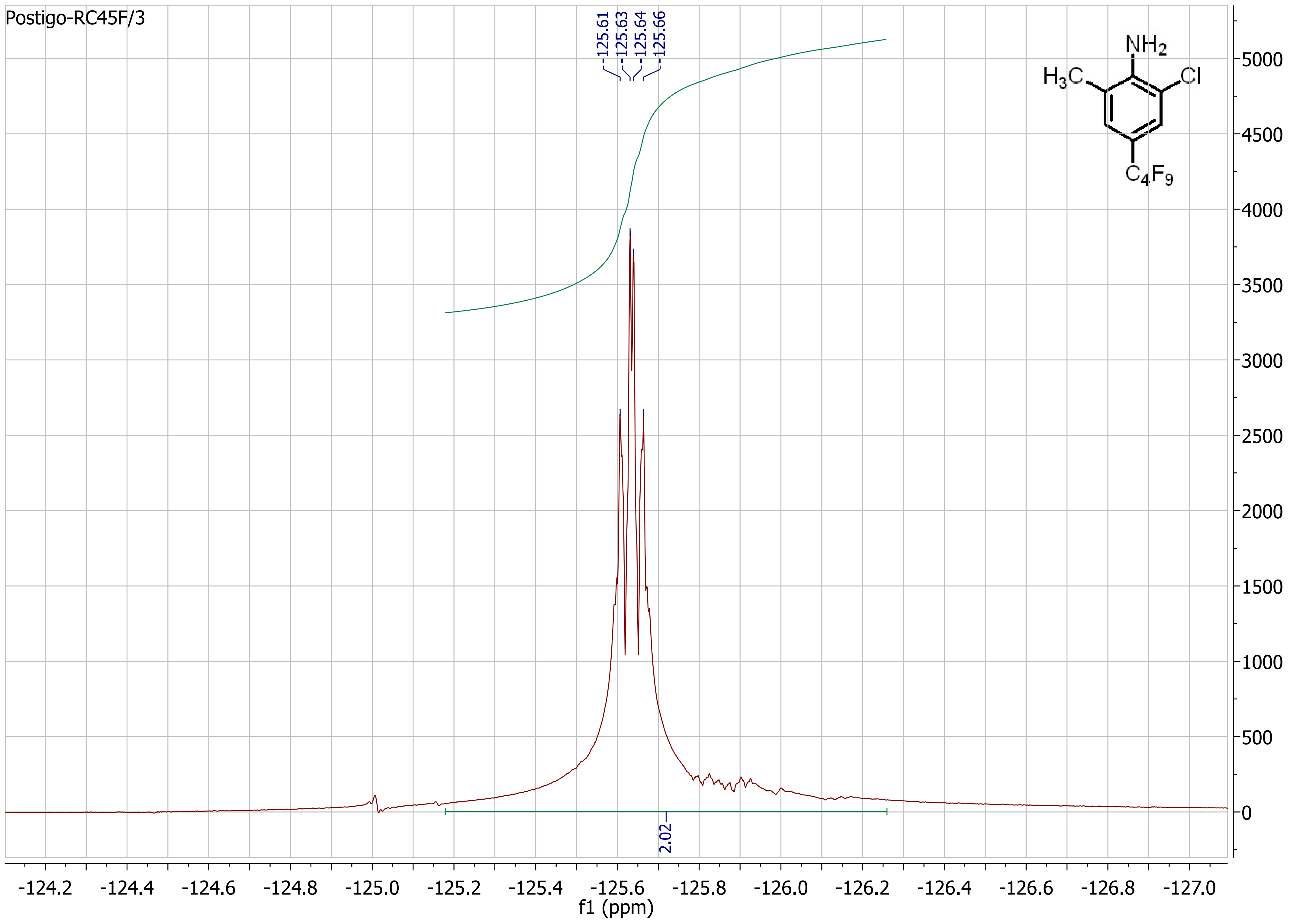
Postigo-RC45F/3
-109.69
-109.72
-109.72
-109.75
NH2
H3C
Cl
C4F9
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
2.00
-108.6
-108.8
-109.0
-109.2
-109.4
-109.6
-109.8
-110.0
-110.2
-110.4
-110.6
-110.8
-111.0
f1 (ppm)



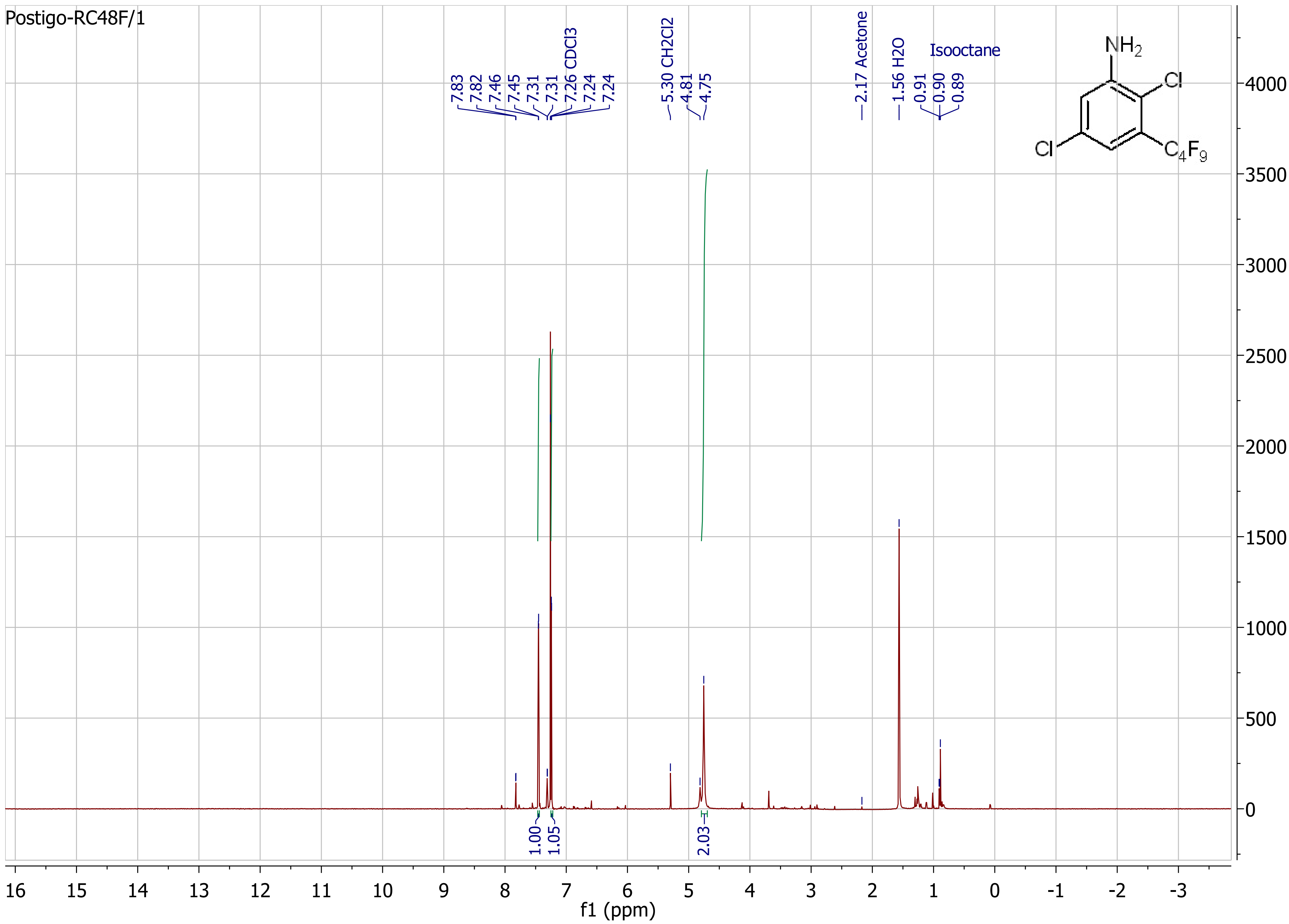
Postigo-RC45F/3
-122.68
-122.70
-122.72
-122.73
-125.61
-125.63
-125.64
-125.66
NH2
H3C
Cl
C4F9
2.03
2.02
-121.5 -122.0 -122.5 -123.0 -123.5 -124.0 -124.5 -125.0 -125.5 -126.0 -126.5 -127.0 -127.5 -128.0 -128.5
f1 (ppm)
5000 4500 4000 3500 3000 2500 2000 1500 1000 500 0

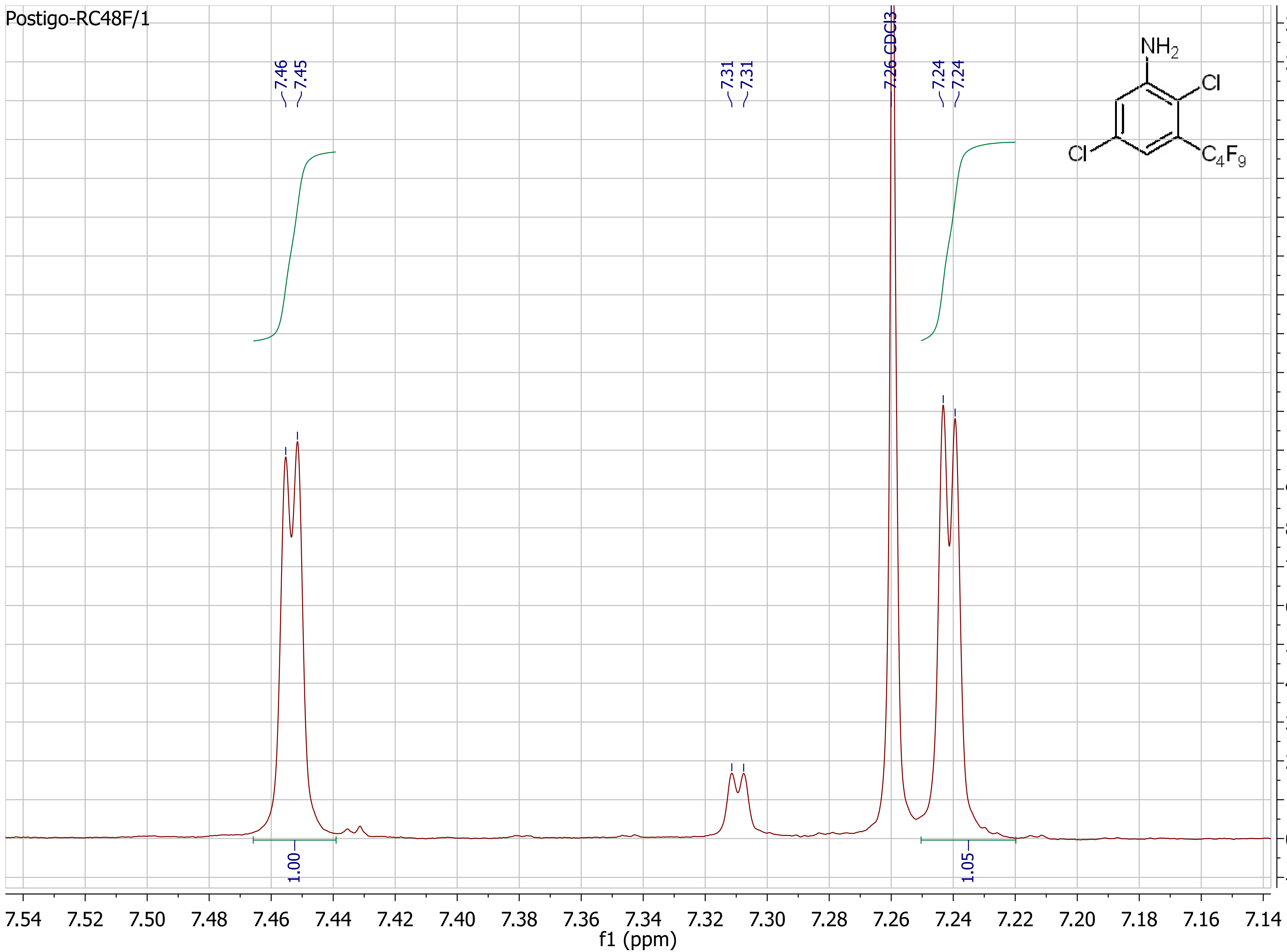


Postigo-RC45F/3
-122.68
-122.70
-122.72
-122.73
NH2
H3C
Cl
C4F9
2.03
f1 (ppm)

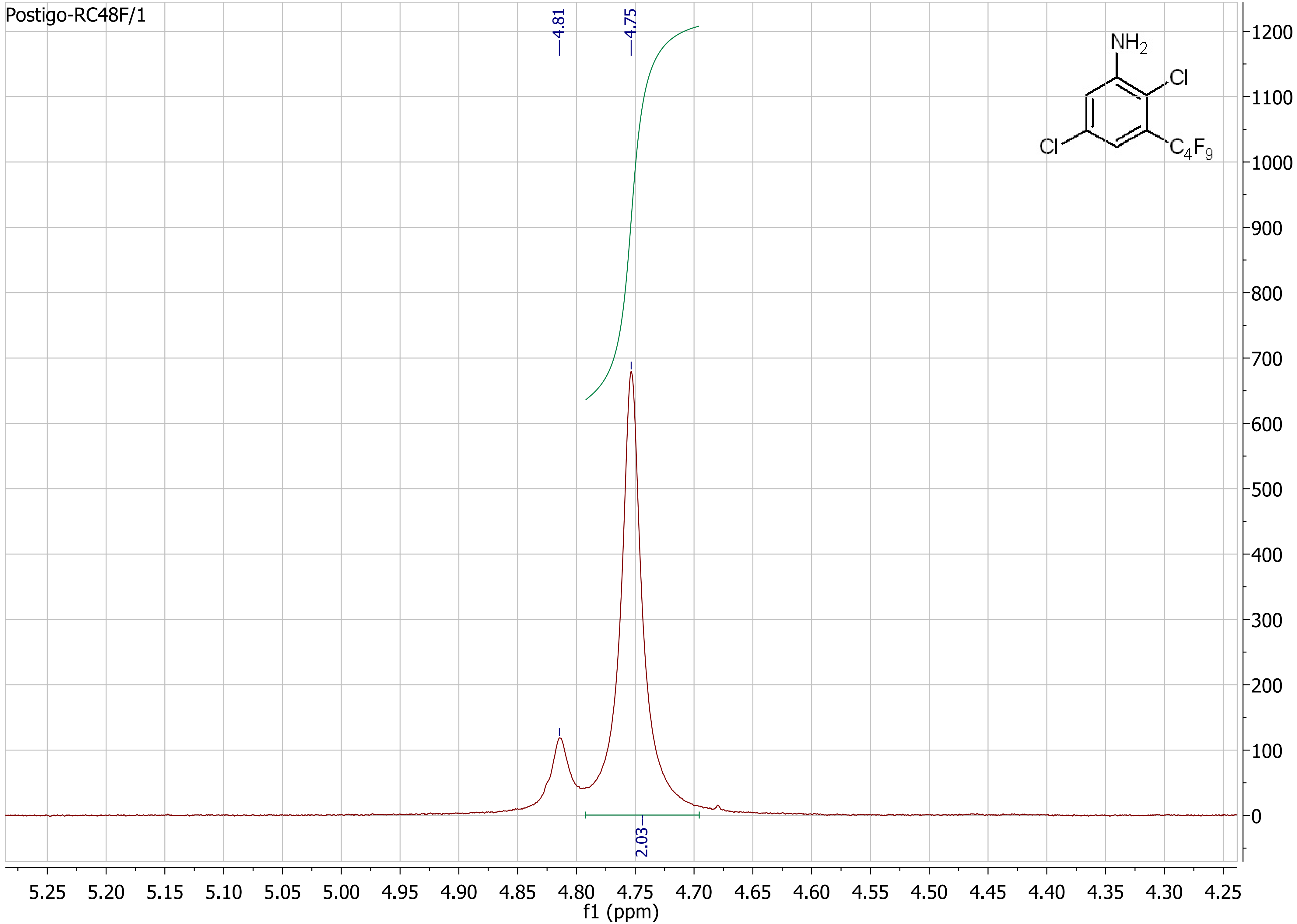


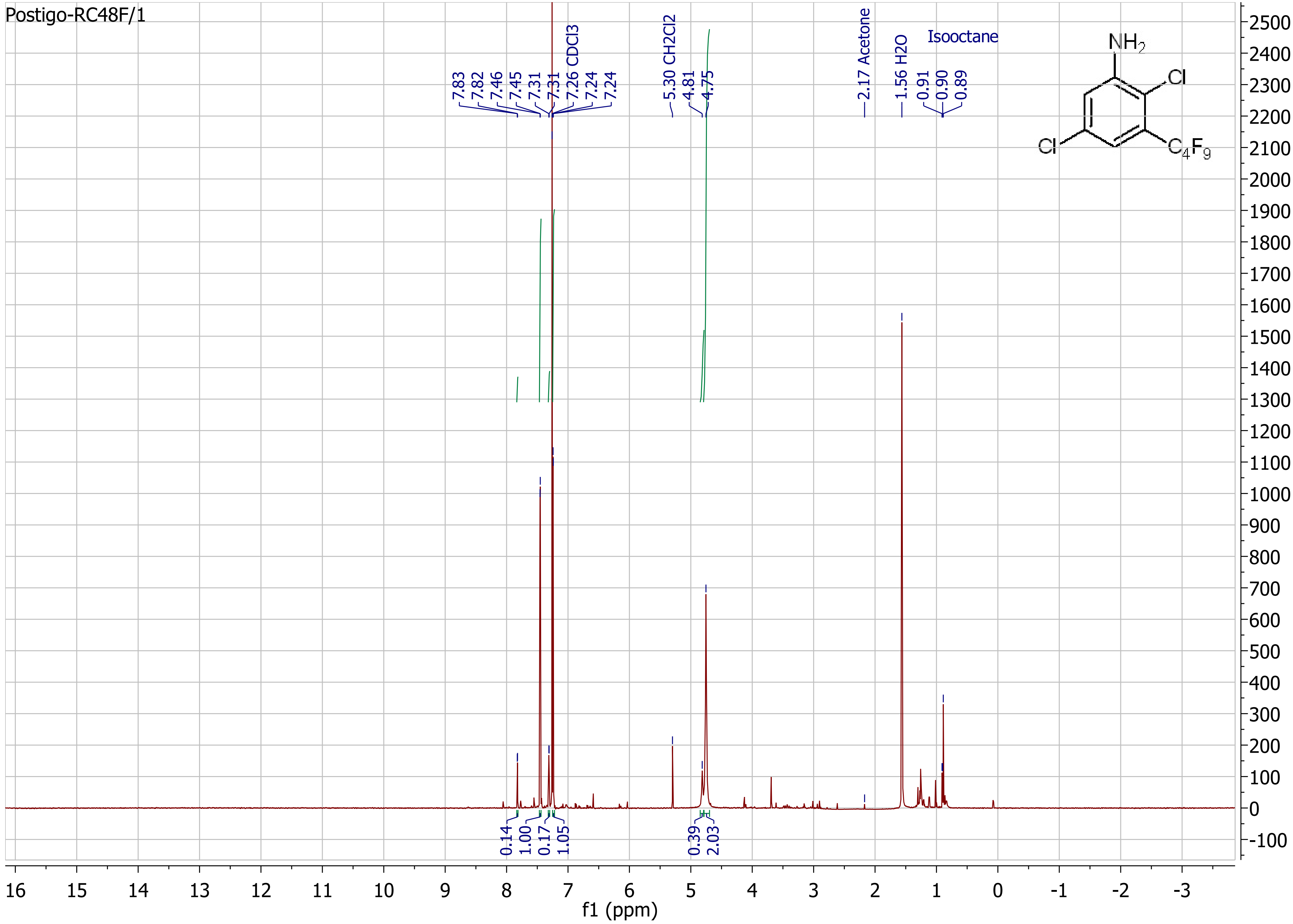
Postigo-RC45F/3
-125.61
-125.63
-125.64
-125.66
NH2
H3C
Cl
C4F9
2.02
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-124.2
-124.4
-124.6
-124.8
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
-127.0
f1 (ppm)


Postigo-RC48F/1
7.83
7.82
7.46
7.45
7.31
7.31
7.26 CDCl3
7.24
7.24
5.30 CH2Cl2
4.81
4.75
2.17 Acetone
1.56 H2O
Isooctane
0.91
0.90
0.89
NH2
Cl
Cl
C4F9
1.00
1.05
2.03
4000
3500
3000
2500
2000
1500
1000
500
0
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
f1 (ppm)

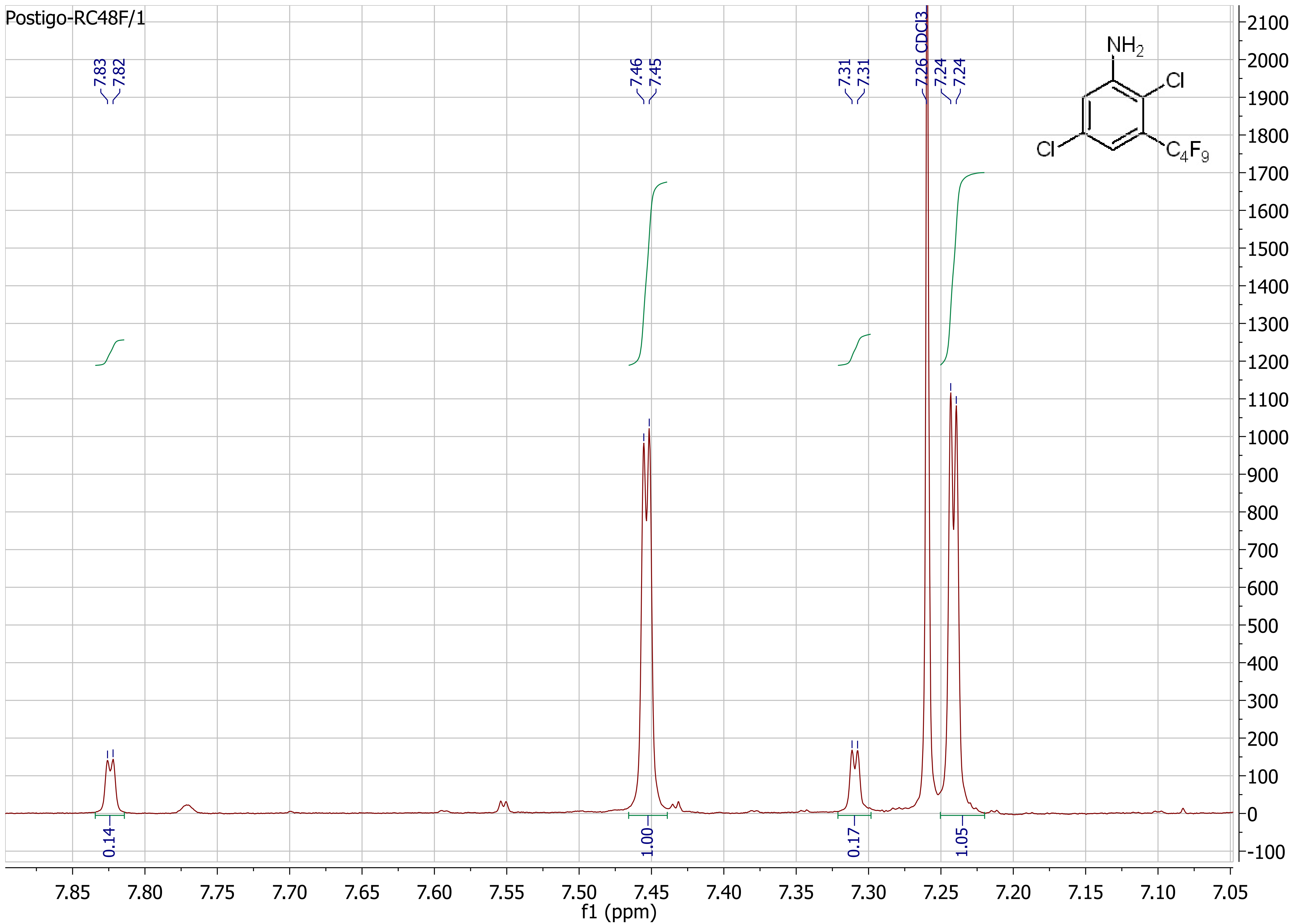


Postigo-RC48F/1
7.46
7.45
7.31
7.31
7.26 CDCl3
7.24
7.24
NH2
Cl
Cl
C4F9
1.00
1.05
f1 (ppm)

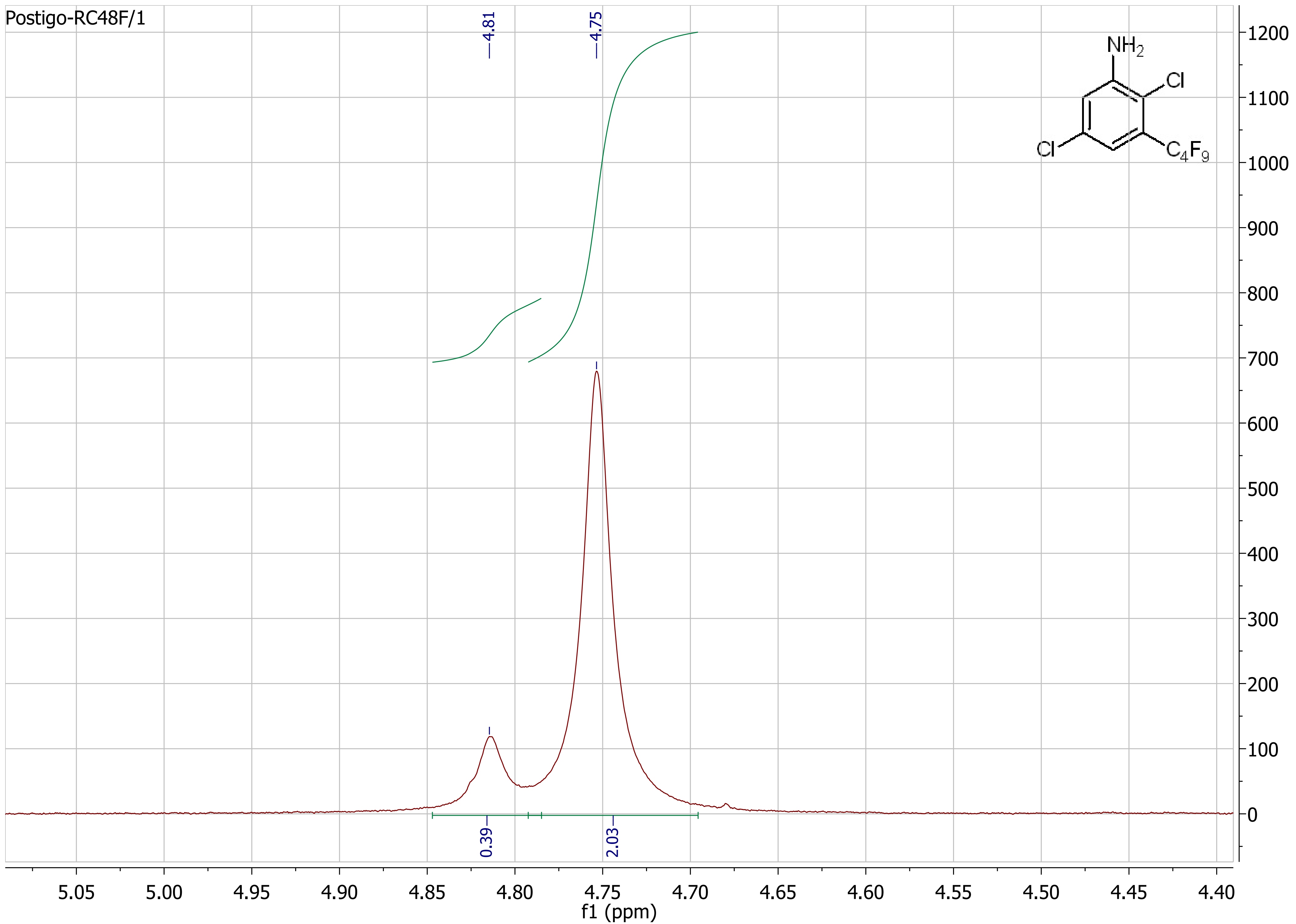

Postigo-RC48F/1
4.81
4.75
NH2
Cl
Cl
C4F9
2.03
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
5.25 5.20 5.15 5.10 5.05 5.00 4.95 4.90 4.85 4.80 4.75 4.70 4.65 4.60 4.55 4.50 4.45 4.40 4.35 4.30 4.25
f1 (ppm)



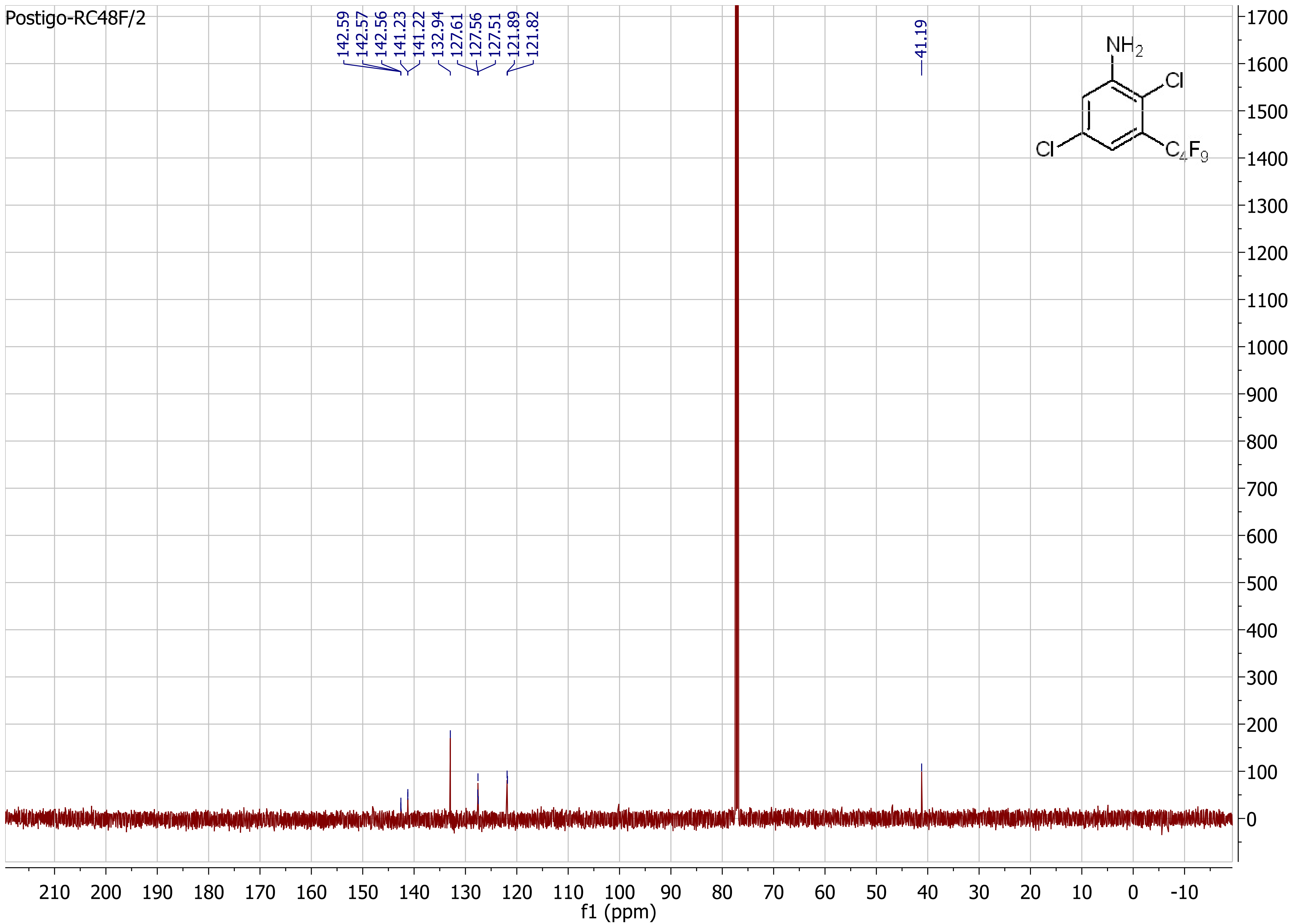
Postigo-RC48F/1
7.83
7.82
7.46
7.45
7.31
7.31
7.26 CDCl3
7.24
7.24
5.30 CH2Cl2
4.81
4.75
2.17 Acetone
1.56 H2O
Isooctane
0.91
0.90
0.89
NH2
Cl
Cl
C4F9
0.14
1.00
0.17
1.05
0.39
2.03
f1 (ppm)



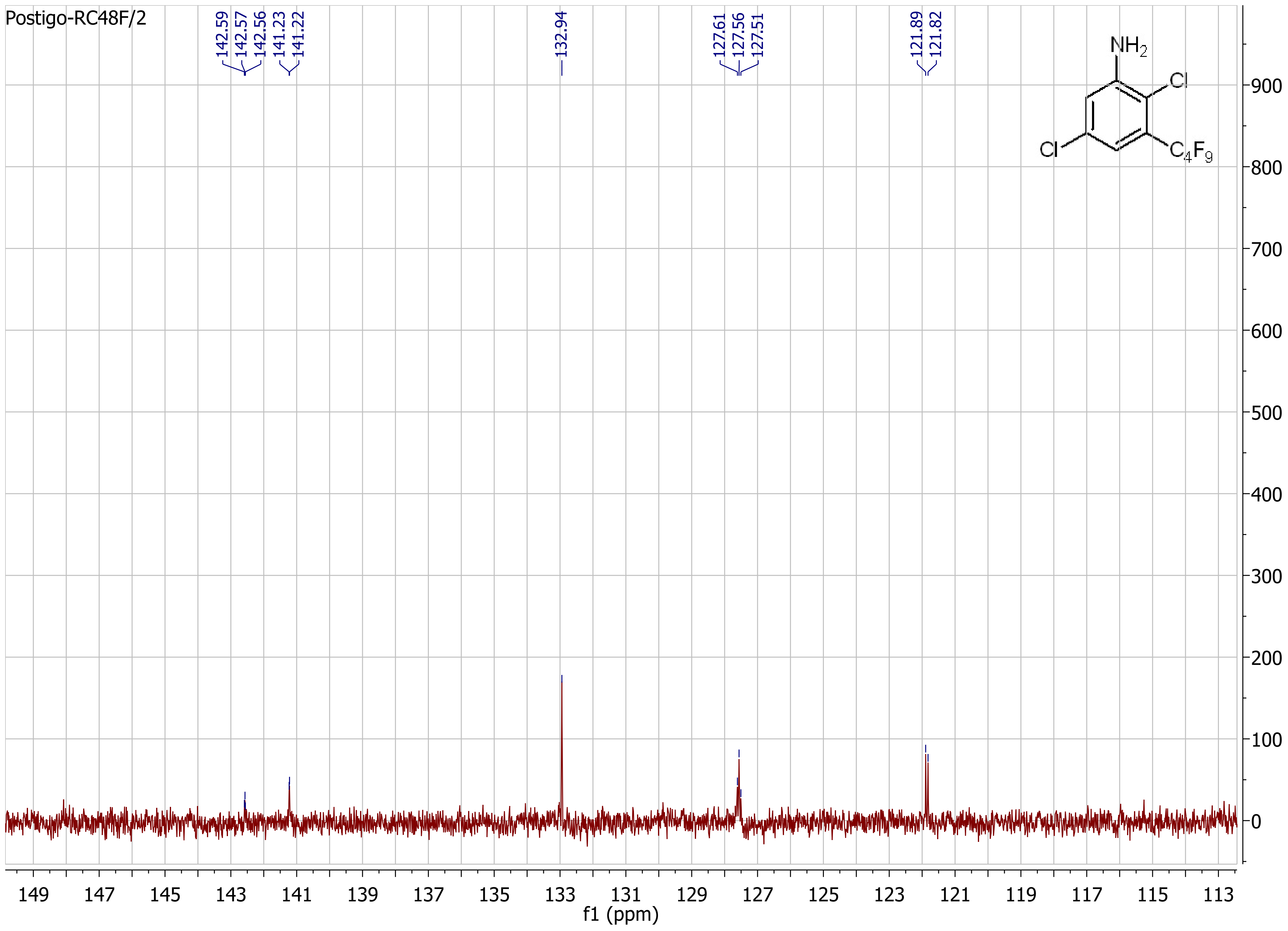
Postigo-RC48F/1
7.83
7.82
7.46
7.45
7.31
7.31
7.26 CDCl3
7.24
7.24
NH2
Cl
Cl
C4F9
0.14
1.00
0.17
1.05
f1 (ppm)

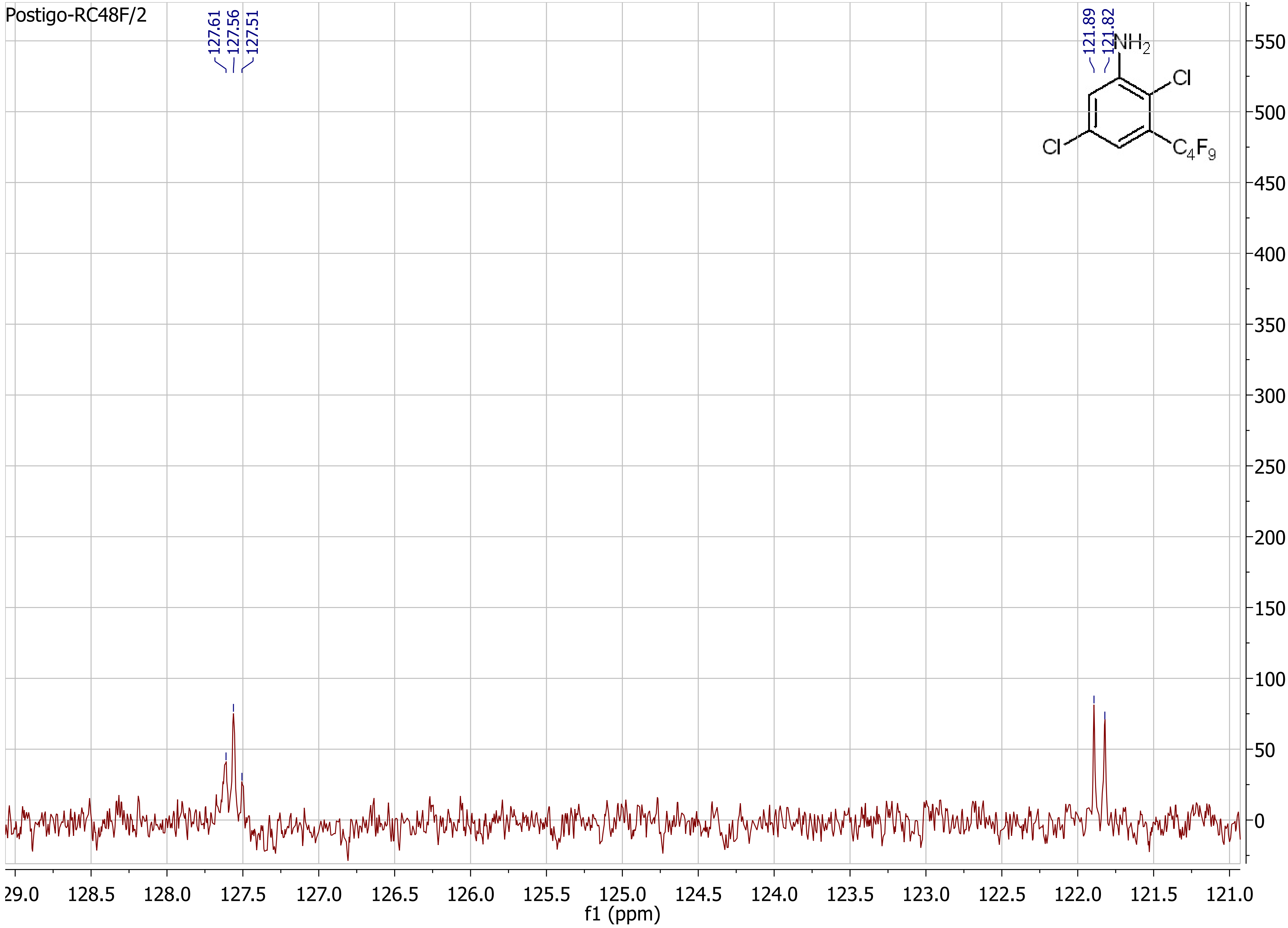


Postigo-RC48F/1
4.81
4.75
NH2
Cl
Cl
C4F9
0.39
2.03
f1 (ppm)

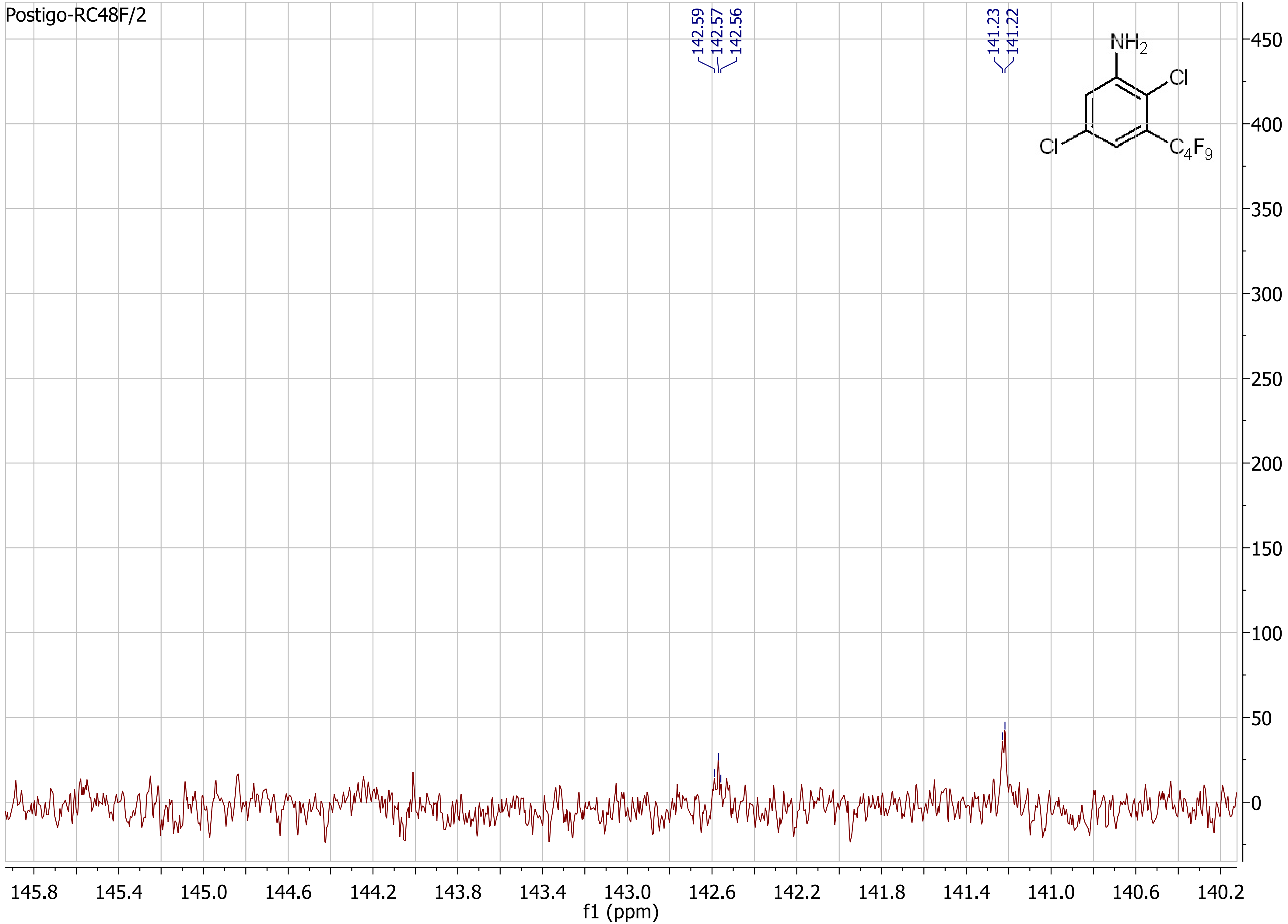


Postigo-RC48F/2
142.59
142.57
142.56
141.23
141.22
132.94
127.61
127.56
127.51
121.89
121.82
41.19
NH2
Cl
Cl
C4F9
f1 (ppm)

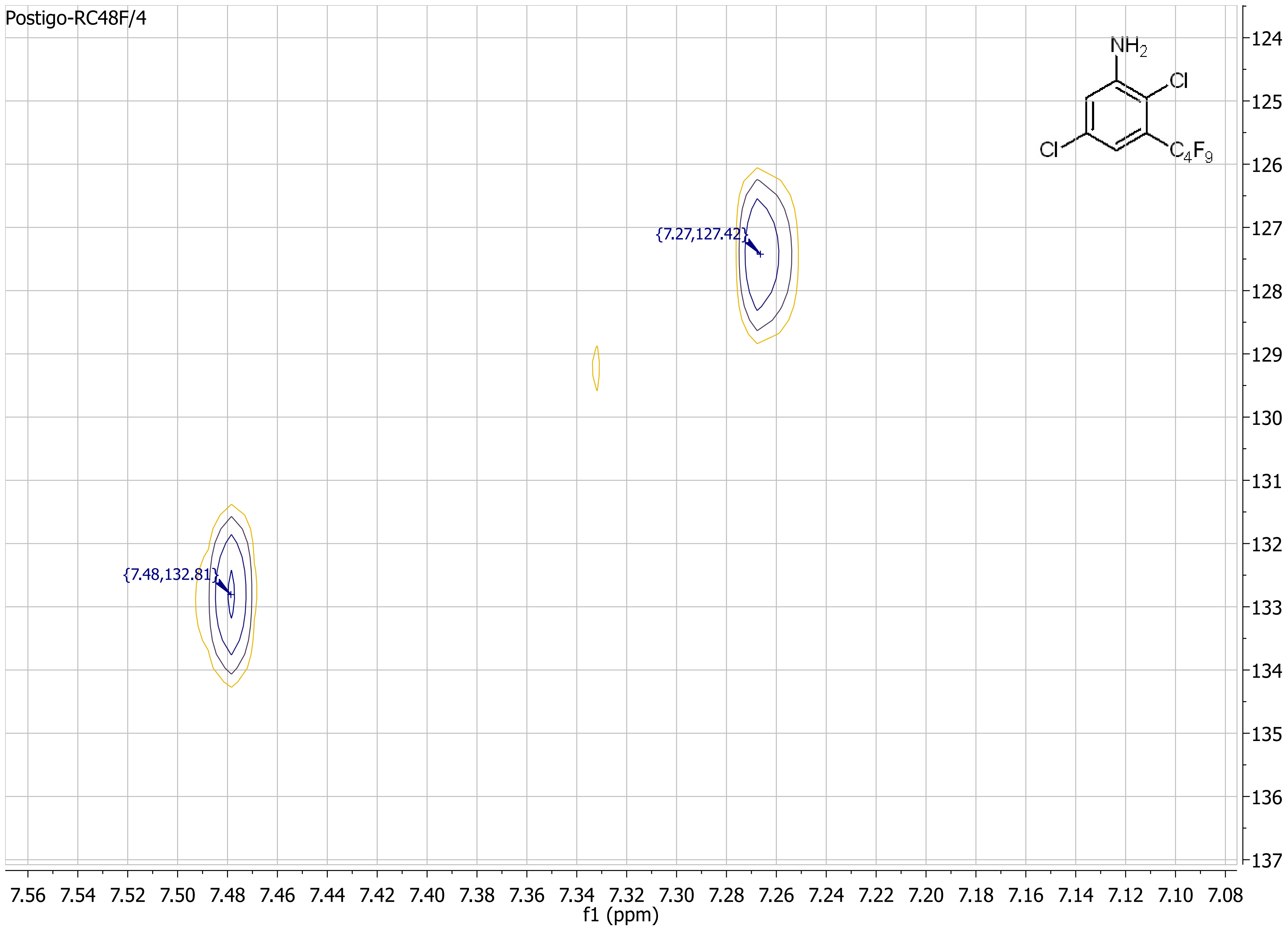

Postigo-RC48F/2
142.59
142.57
142.56
141.23
141.22
132.94
127.61
127.56
127.51
121.89
121.82
NH2
Cl
Cl
C4F9
900
800
700
600
500
400
300
200
100
0
149
147
145
143
141
139
137
135
133
131
129
127
125
123
121
119
117
115
113
f1 (ppm)

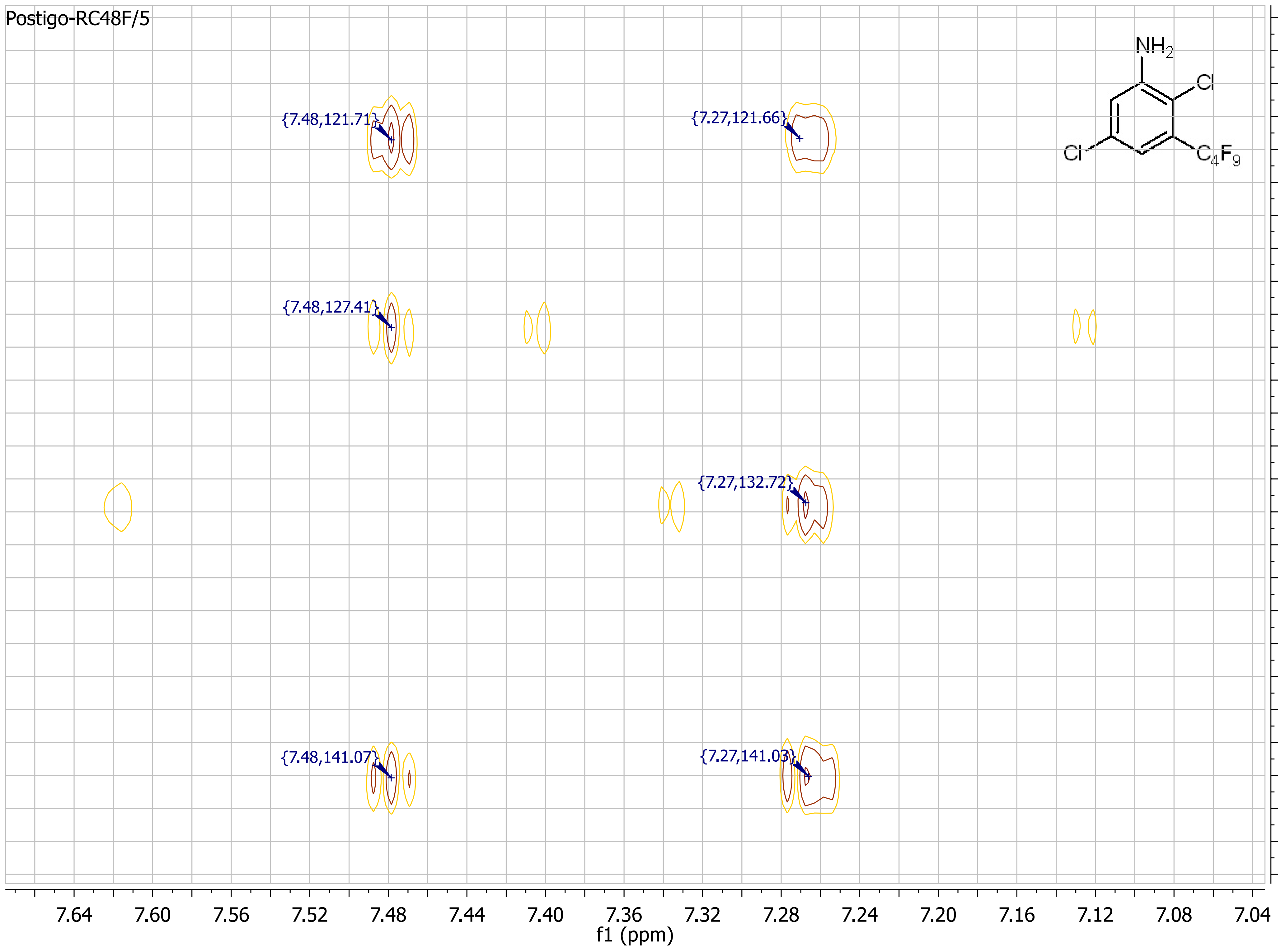


Postigo-RC48F/2
127.61
127.56
127.51
121.89
121.82
NH2
Cl
Cl
C4F9
f1 (ppm)

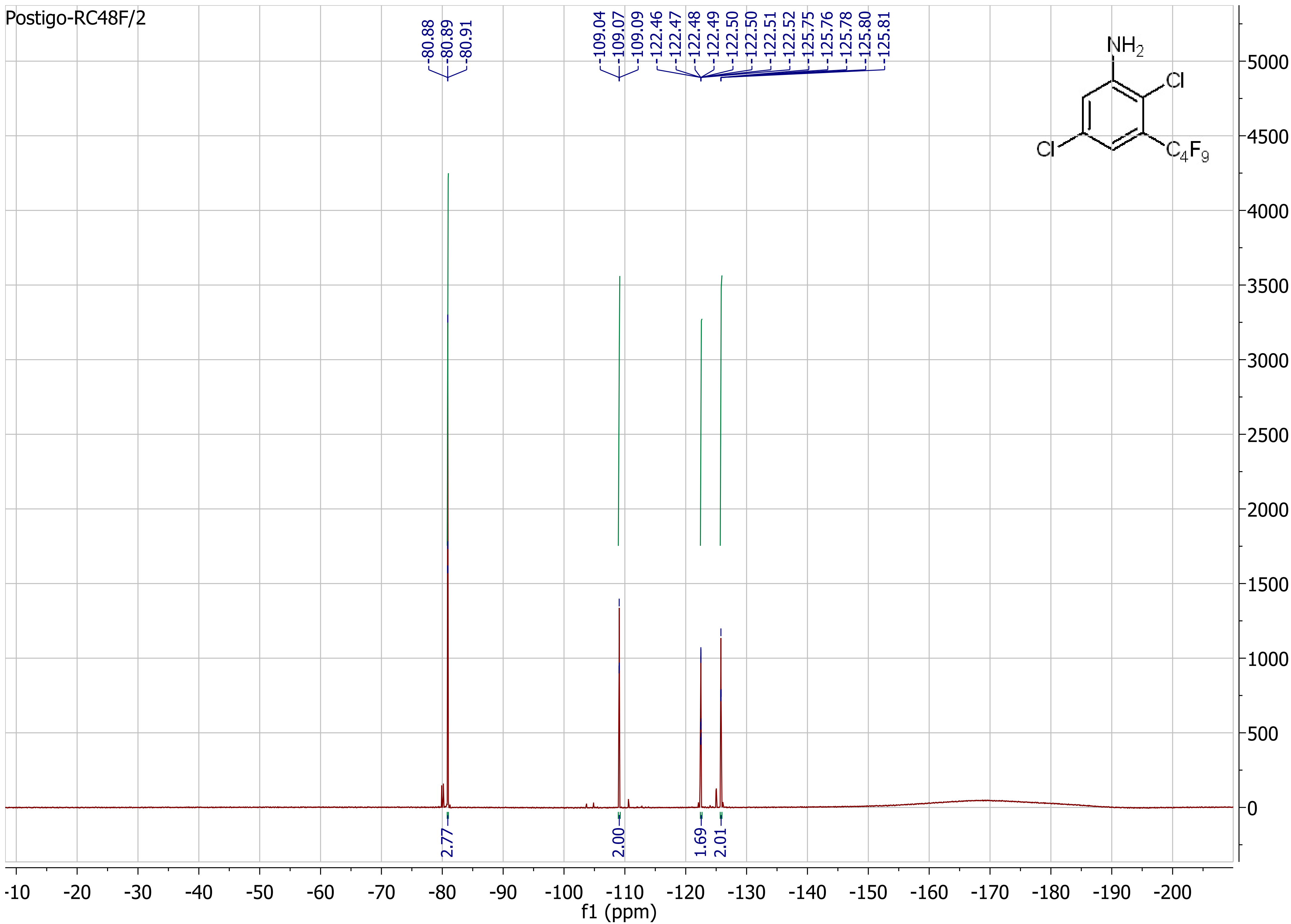


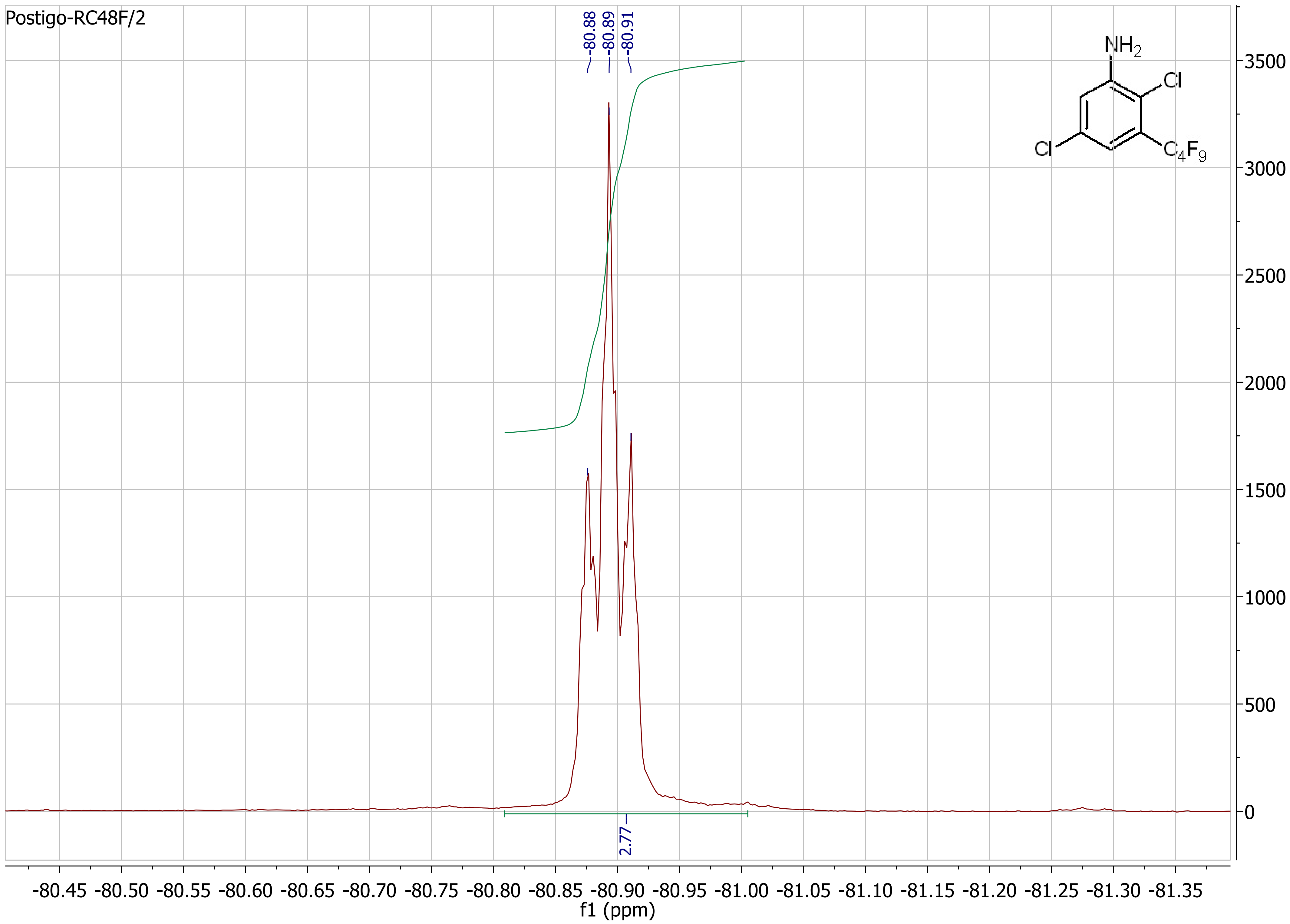
Postigo-RC48F/2
142.59
142.57
142.56
141.23
141.22
NH2
Cl
Cl
C4F9
450
400
350
300
250
200
150
100
50
0
145.8
145.4
145.0
144.6
144.2
143.8
143.4
143.0
142.6
142.2
141.8
141.4
141.0
140.6
140.2
f1 (ppm)

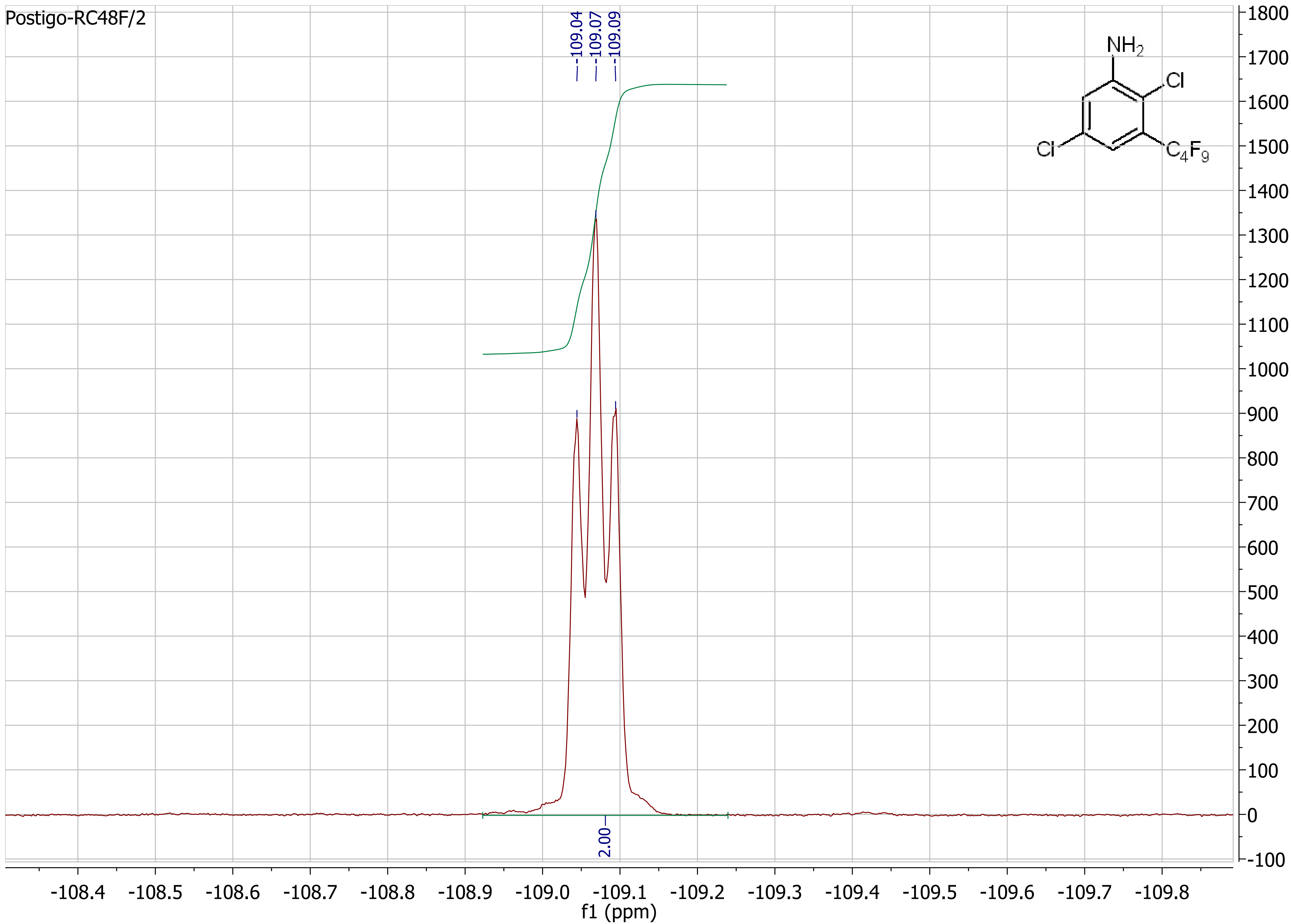

Postigo-RC48F/4
{7.27,127.42}
{7.48,132.81}
NH2
Cl
Cl
C4F9
7.56 7.54 7.52 7.50 7.48 7.46 7.44 7.42 7.40 7.38 7.36 7.34 7.32 7.30 7.28 7.26 7.24 7.22 7.20 7.18 7.16 7.14 7.12 7.10 7.08
f1 (ppm)
124 125 126 127 128 129 130 131 132 133 134 135 136 137



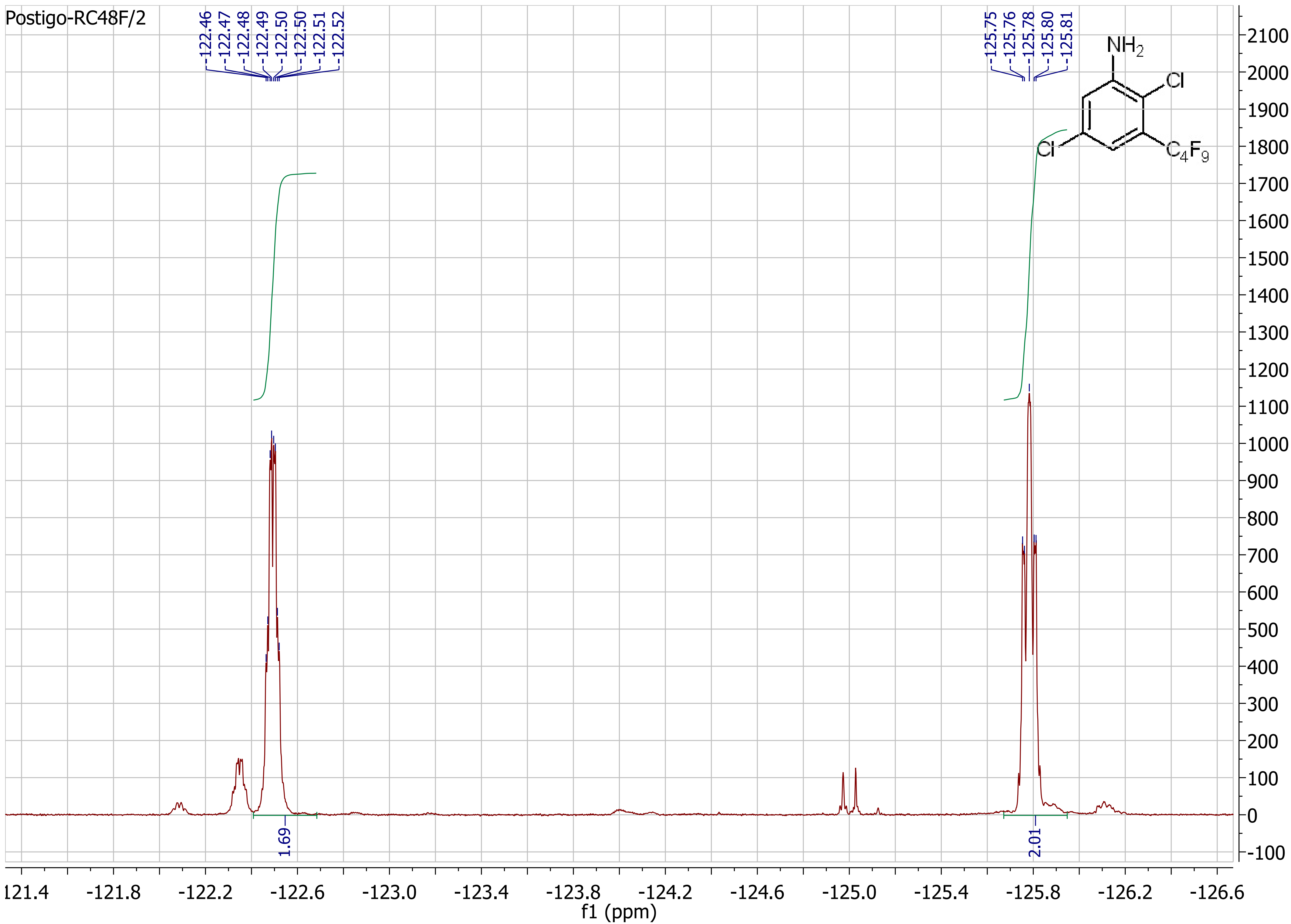
Postigo-RC48F/5
{7.48,121.71}
{7.27,121.66}
{7.48,127.41}
{7.27,132.72}
{7.48,141.07}
{7.27,141.03}
f1 (ppm)
NH2
Cl
Cl
C4F9


Postigo-RC48F/2
-80.88
-80.89
-80.91
-109.04
-109.07
-109.09
-122.46
-122.47
-122.48
-122.49
-122.50
-122.50
-122.51
-122.52
-125.75
-125.76
-125.76
-125.78
-125.80
-125.81
NH2
Cl
Cl
C4F9
2.77
2.00
1.69
2.01
f1 (ppm)

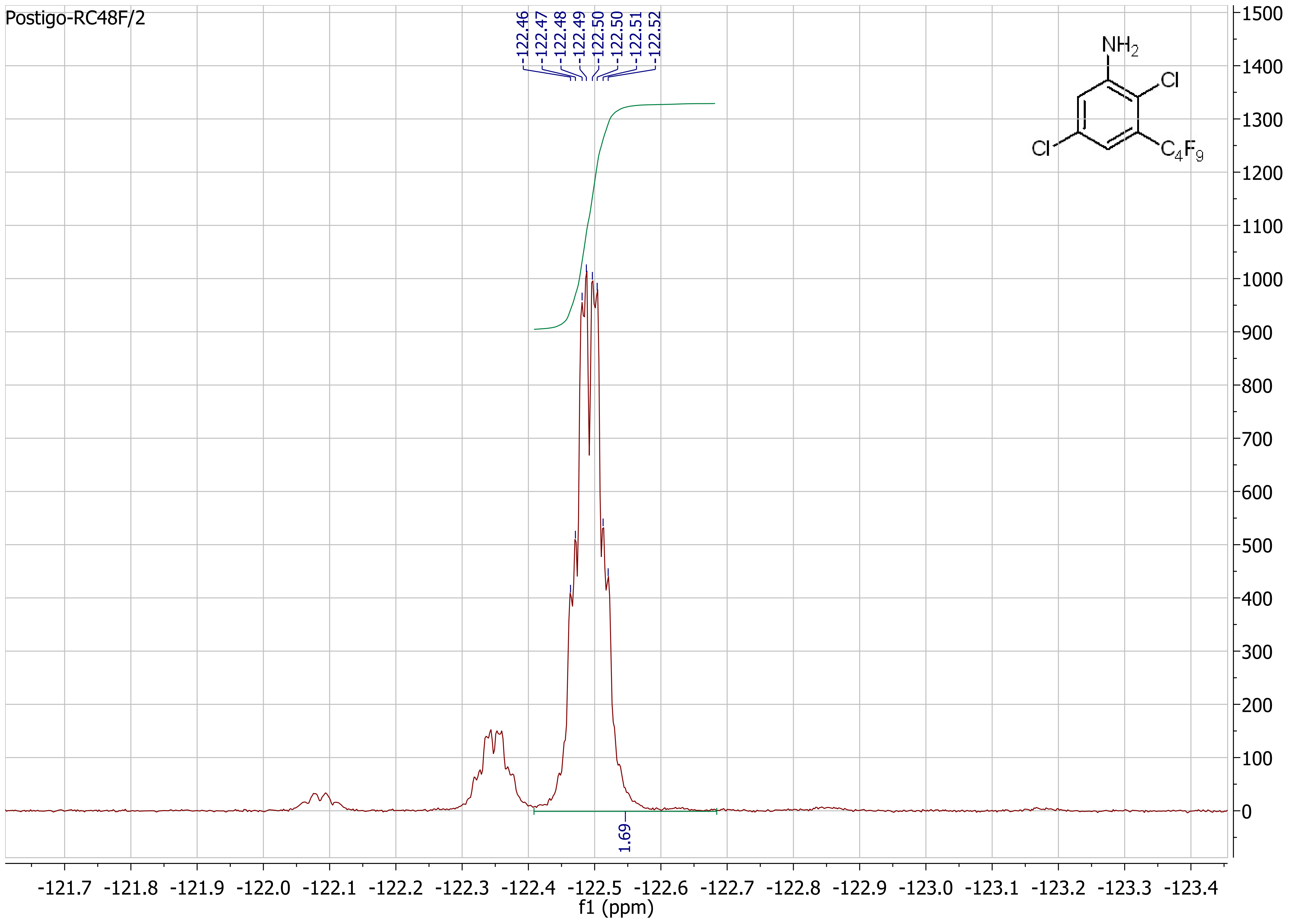

Postigo-RC48F/2
-80.88
-80.89
-80.91
NH2
Cl
Cl
C4F9
3500
3000
2500
2000
1500
1000
500
0
2.77
-80.45 -80.50 -80.55 -80.60 -80.65 -80.70 -80.75 -80.80 -80.85 -80.90 -80.95 -81.00 -81.05 -81.10 -81.15 -81.20 -81.25 -81.30 -81.35
f1 (ppm)



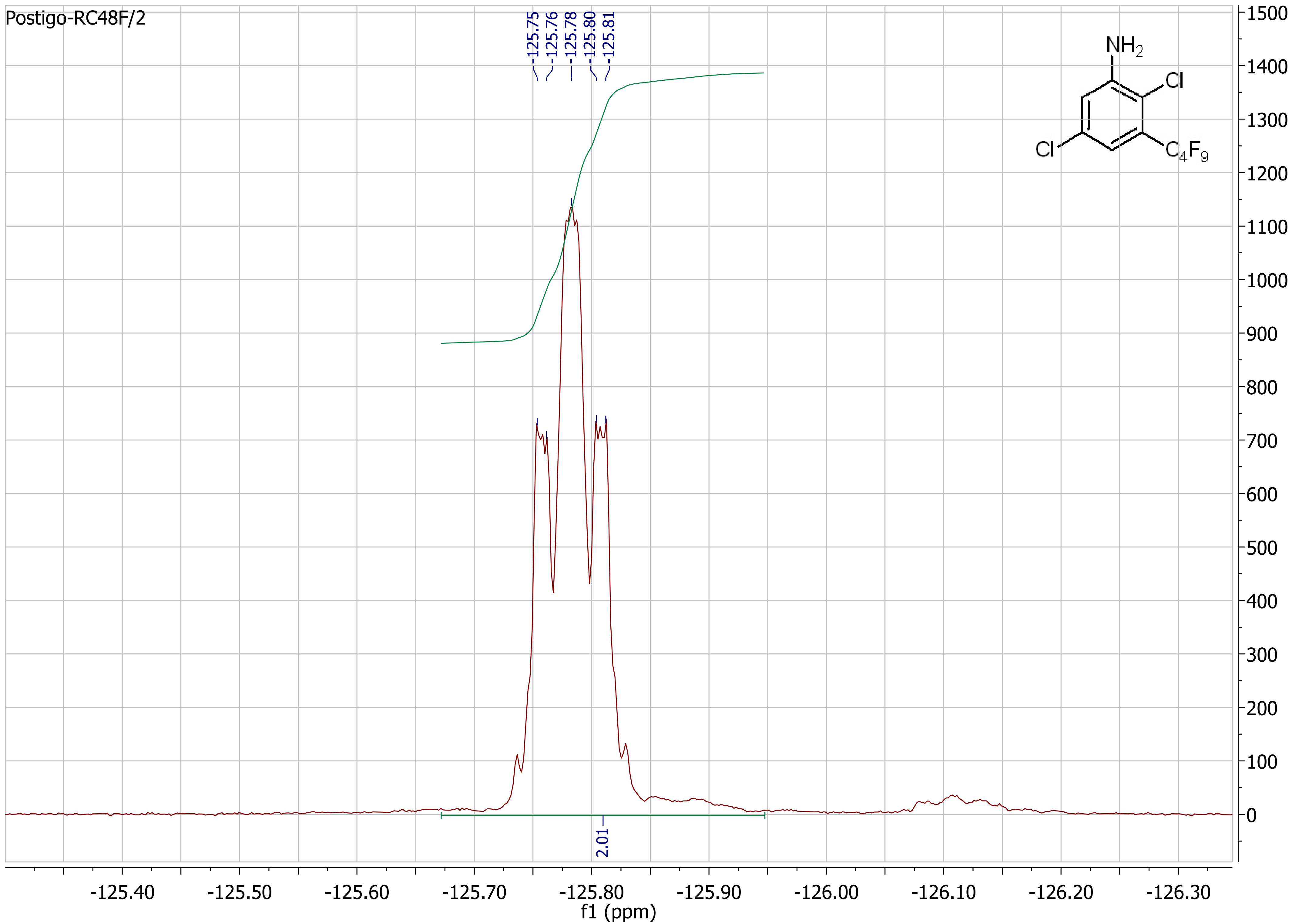
Postigo-RC48F/2
-109.04
-109.07
-109.09
NH2
Cl
Cl
C4F9
2.00
-108.4 -108.5 -108.6 -108.7 -108.8 -108.9 -109.0 -109.1 -109.2 -109.3 -109.4 -109.5 -109.6 -109.7 -109.8
f1 (ppm)
1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0 -100



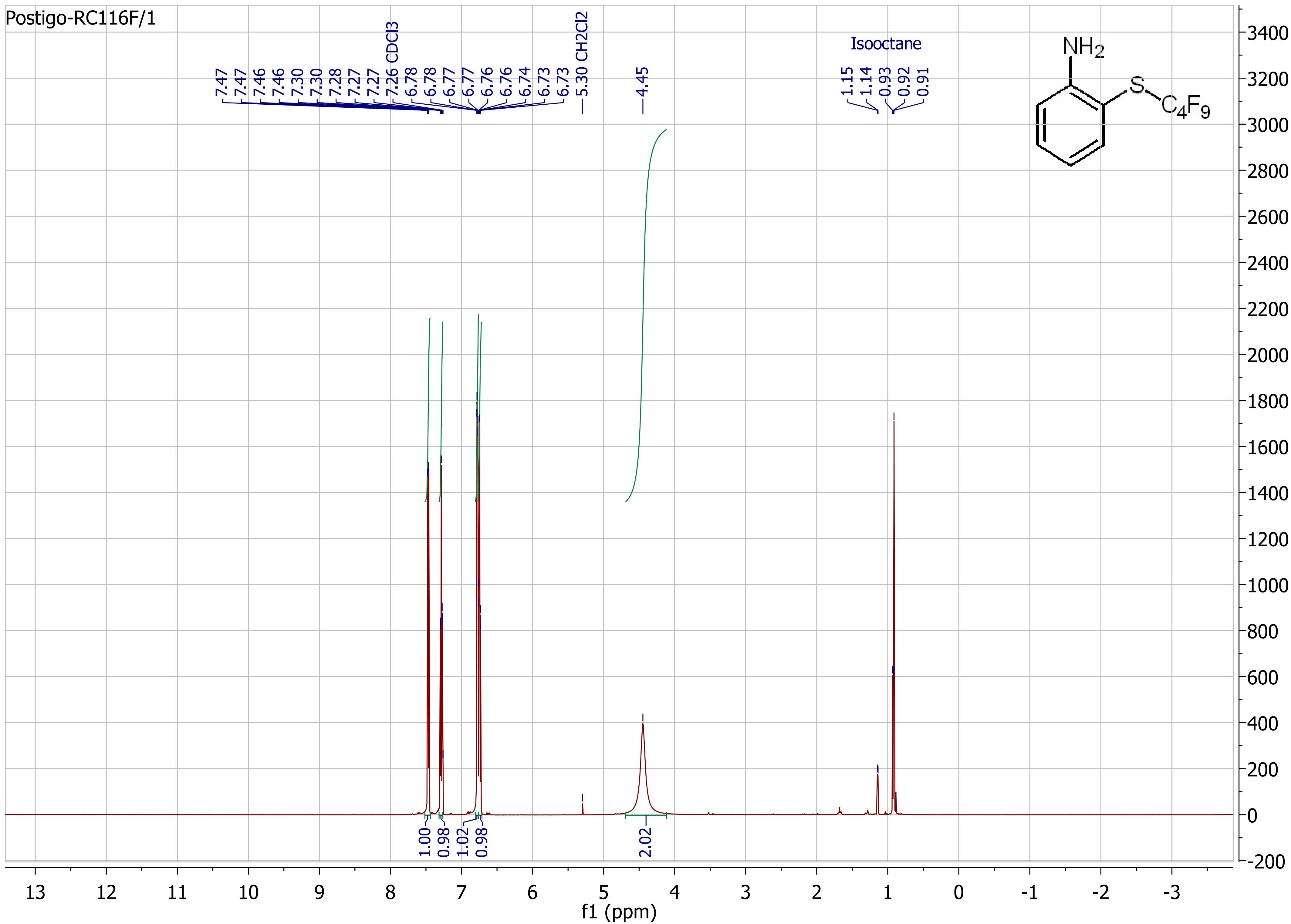
Postigo-RC48F/2
-122.46
-122.47
-122.48
-122.49
-122.50
-122.50
-122.51
-122.52
-125.75
-125.76
-125.78
-125.80
-125.81
NH2
Cl
Cl
C4F9
1.69
2.01
f1 (ppm)



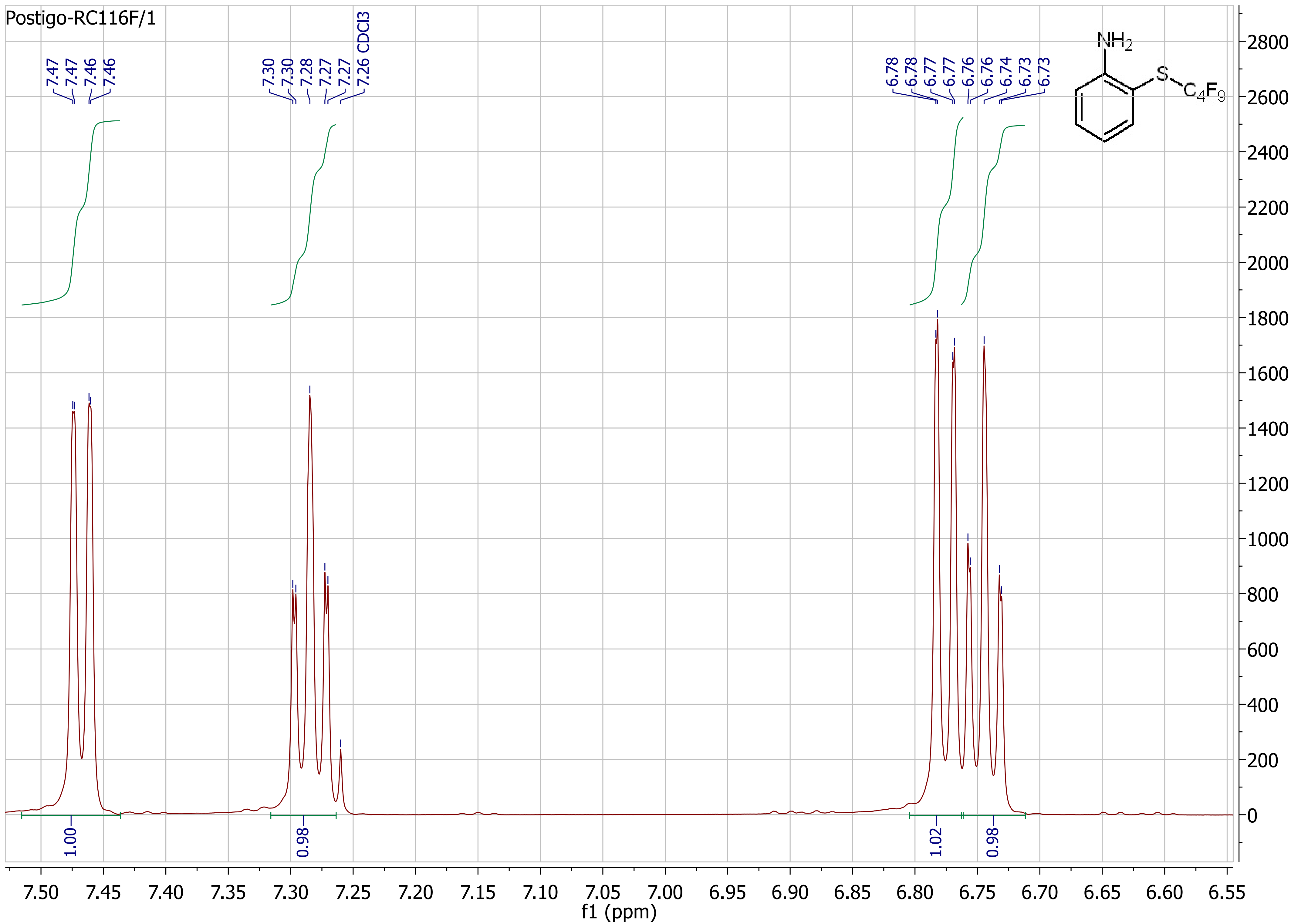
Postigo-RC48F/2
-122.46
-122.47
-122.48
-122.49
-122.50
-122.50
-122.51
-122.52
NH2
Cl
Cl
C4F9
1.69
f1 (ppm)



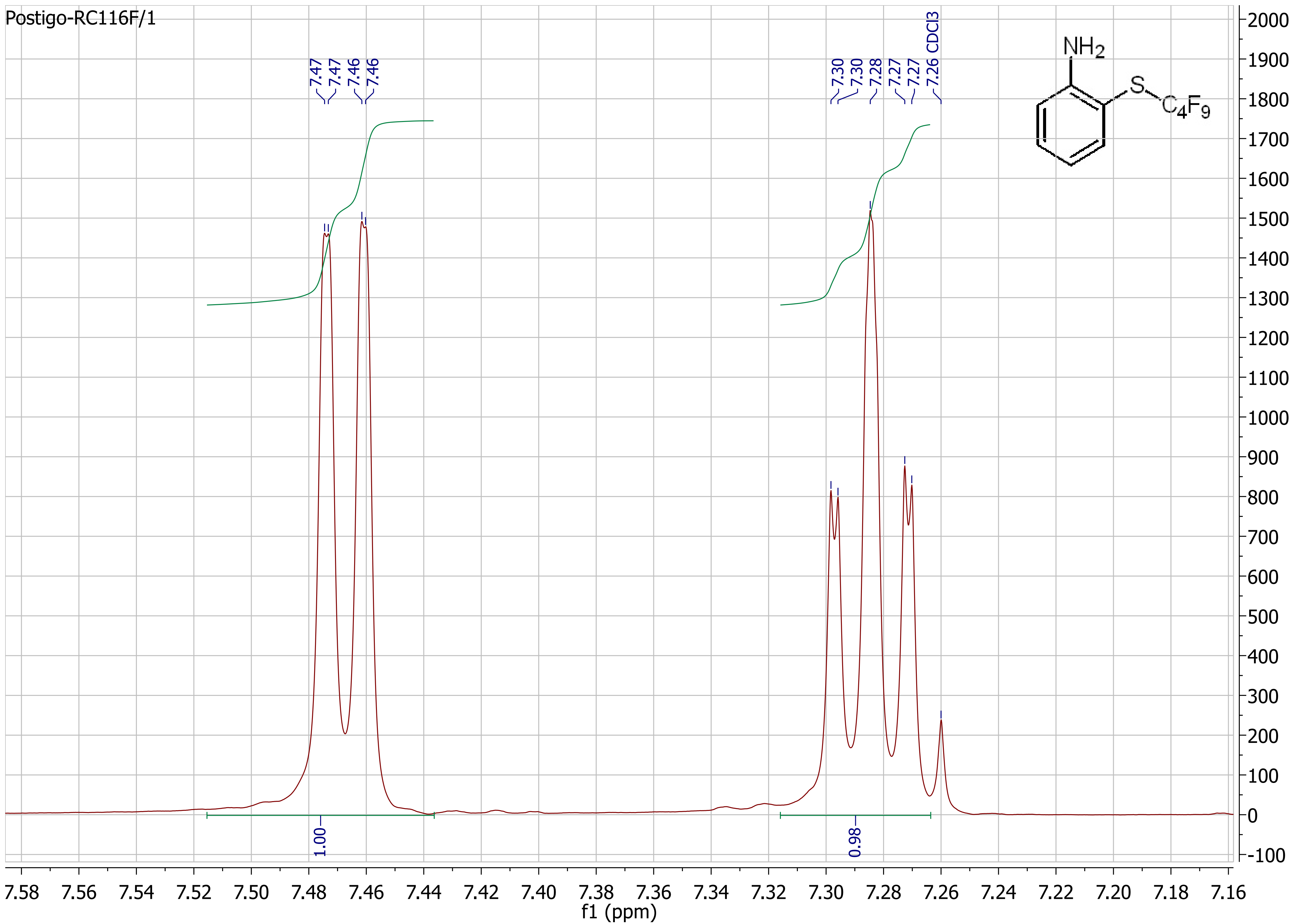
Postigo-RC48F/2
-125.75
-125.76
-125.78
-125.80
-125.81
NH_2
Cl
Cl
C_4F_9
2.01
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-125.40
-125.50
-125.60
-125.70
-125.80
-125.90
-126.00
-126.10
-126.20
-126.30
f1 (ppm)



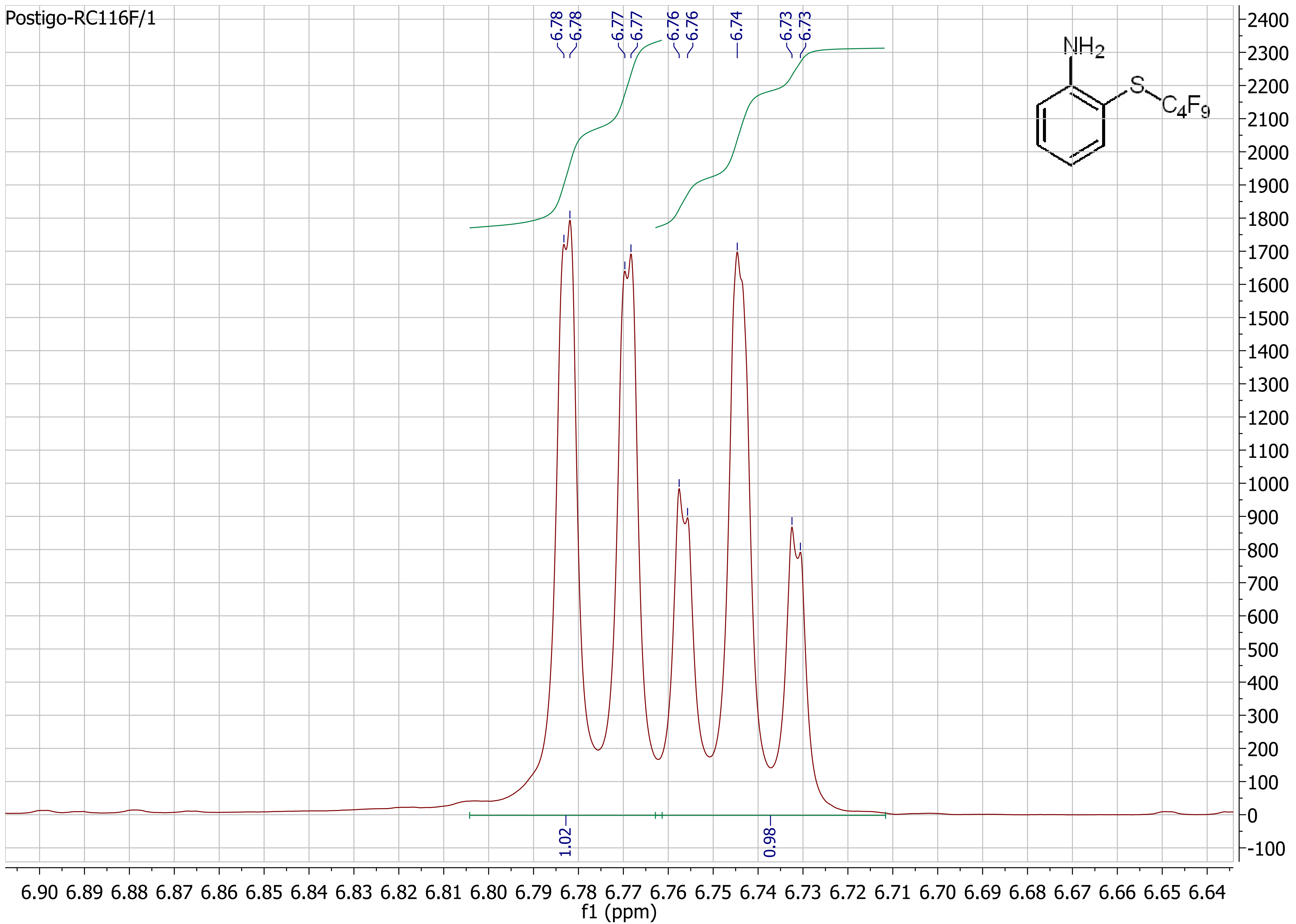
Postigo-RC116F/1
7.47
7.47
7.46
7.46
7.30
7.30
7.28
7.27
7.27
7.26 CDCl3
6.78
6.78
6.77
6.77
6.76
6.76
6.74
6.73
6.73
5.30 CH2Cl2
4.45
Isooctane
1.15
1.14
0.93
0.92
0.91
NH2
S
C4F9
1.00
0.98
1.02
0.98
2.02
f1 (ppm)



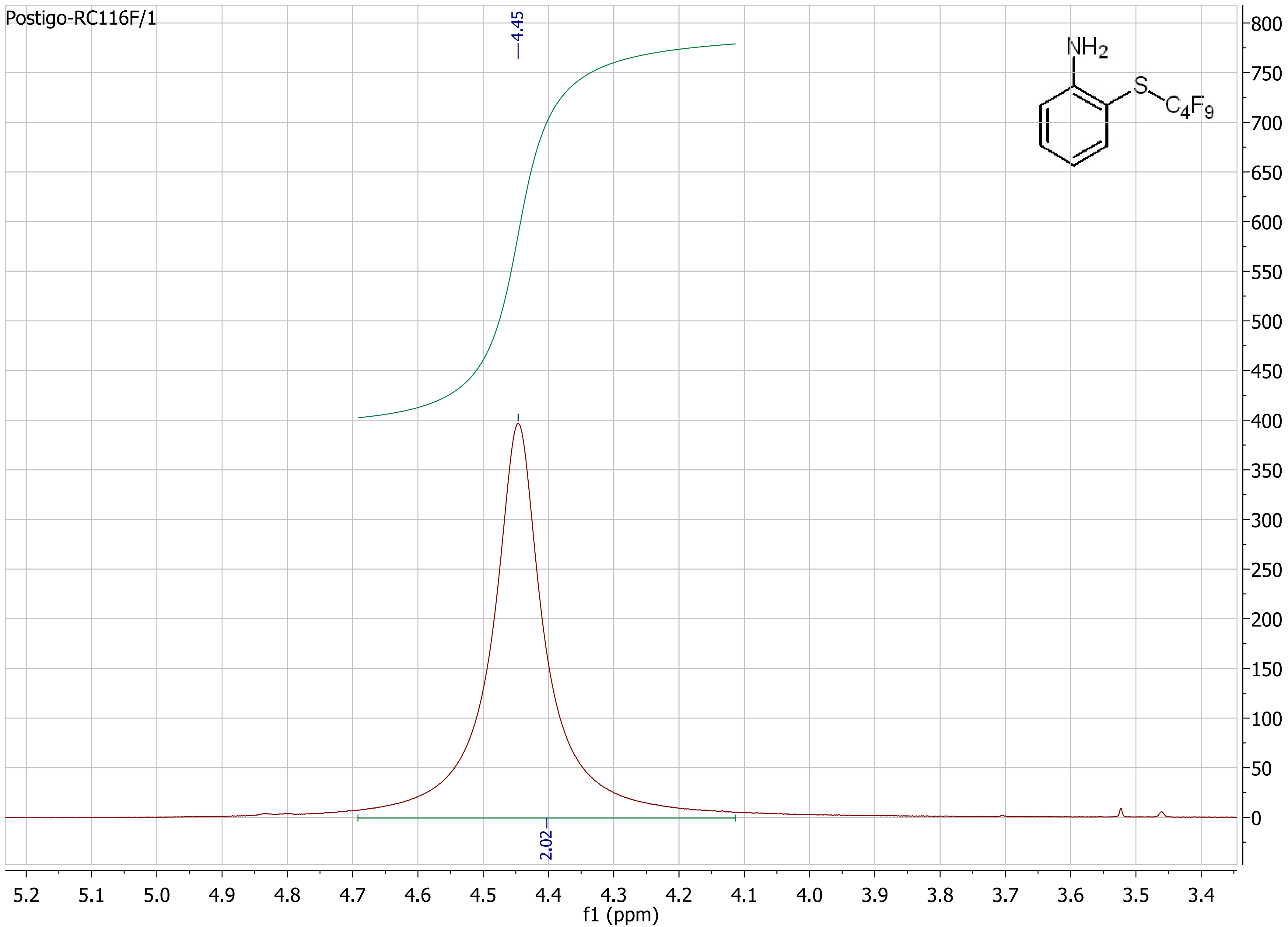
Postigo-RC116F/1
7.47
7.47
7.46
7.46
7.30
7.30
7.28
7.27
7.27
7.26 CDCl3
6.78
6.78
6.77
6.77
6.76
6.76
6.74
6.73
6.73
NH2
S
C4F9
1.00
0.98
1.02
0.98
f1 (ppm)

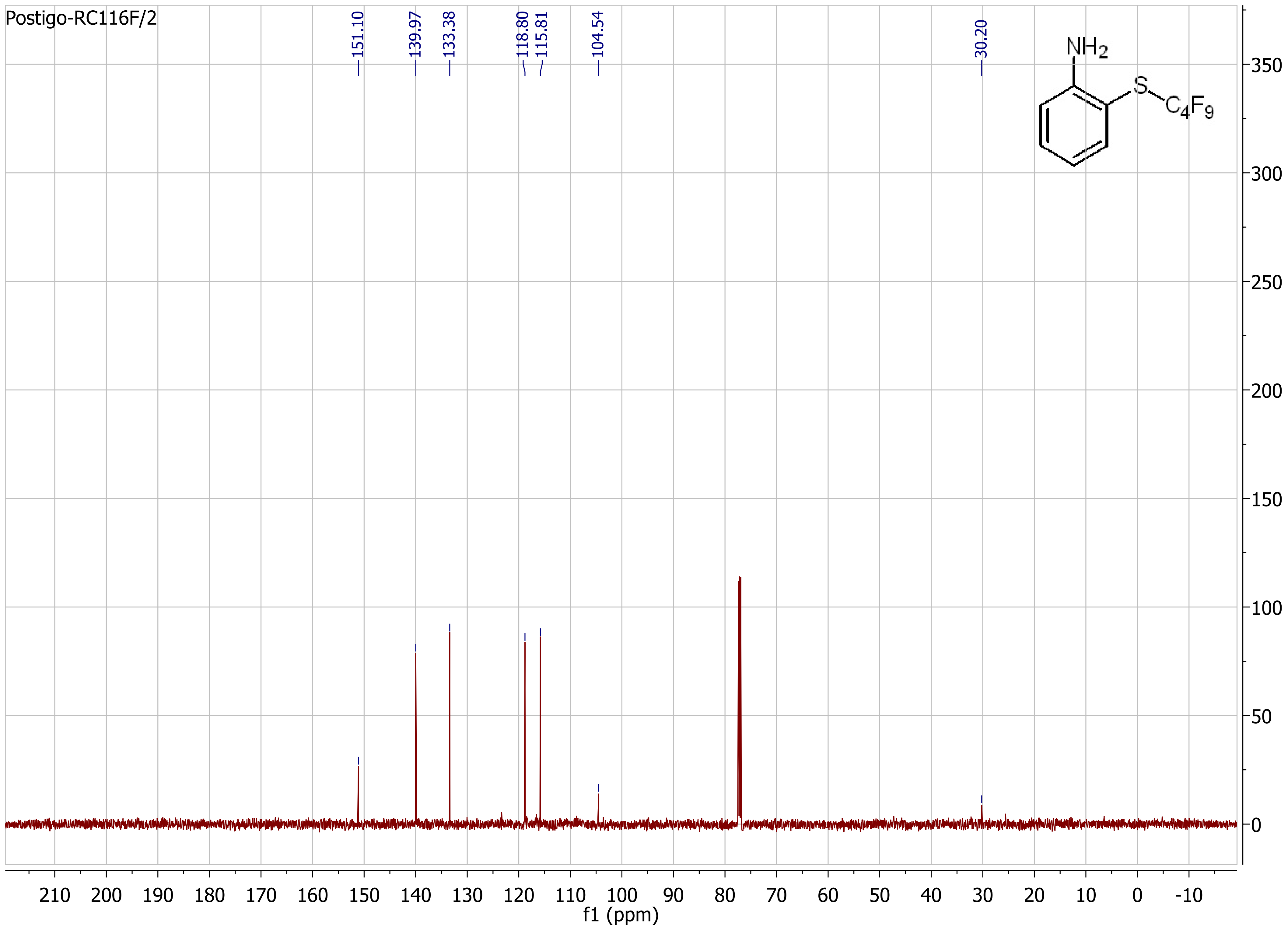


Postigo-RC116F/1
7.47
7.47
7.46
7.46
7.30
7.30
7.28
7.27
7.27
7.26 CDCl3
NH2
S
C4F9
1.00
0.98
f1 (ppm)

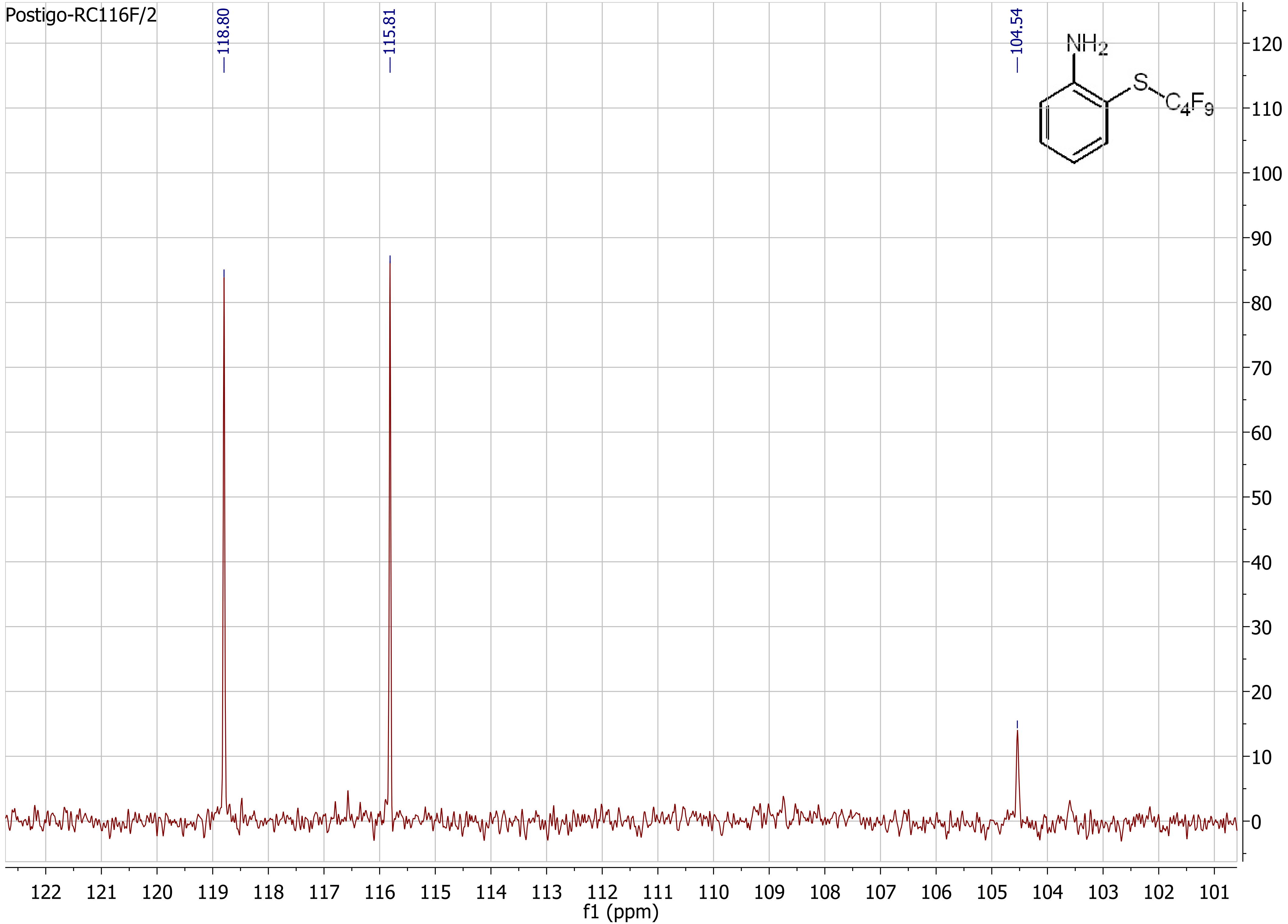


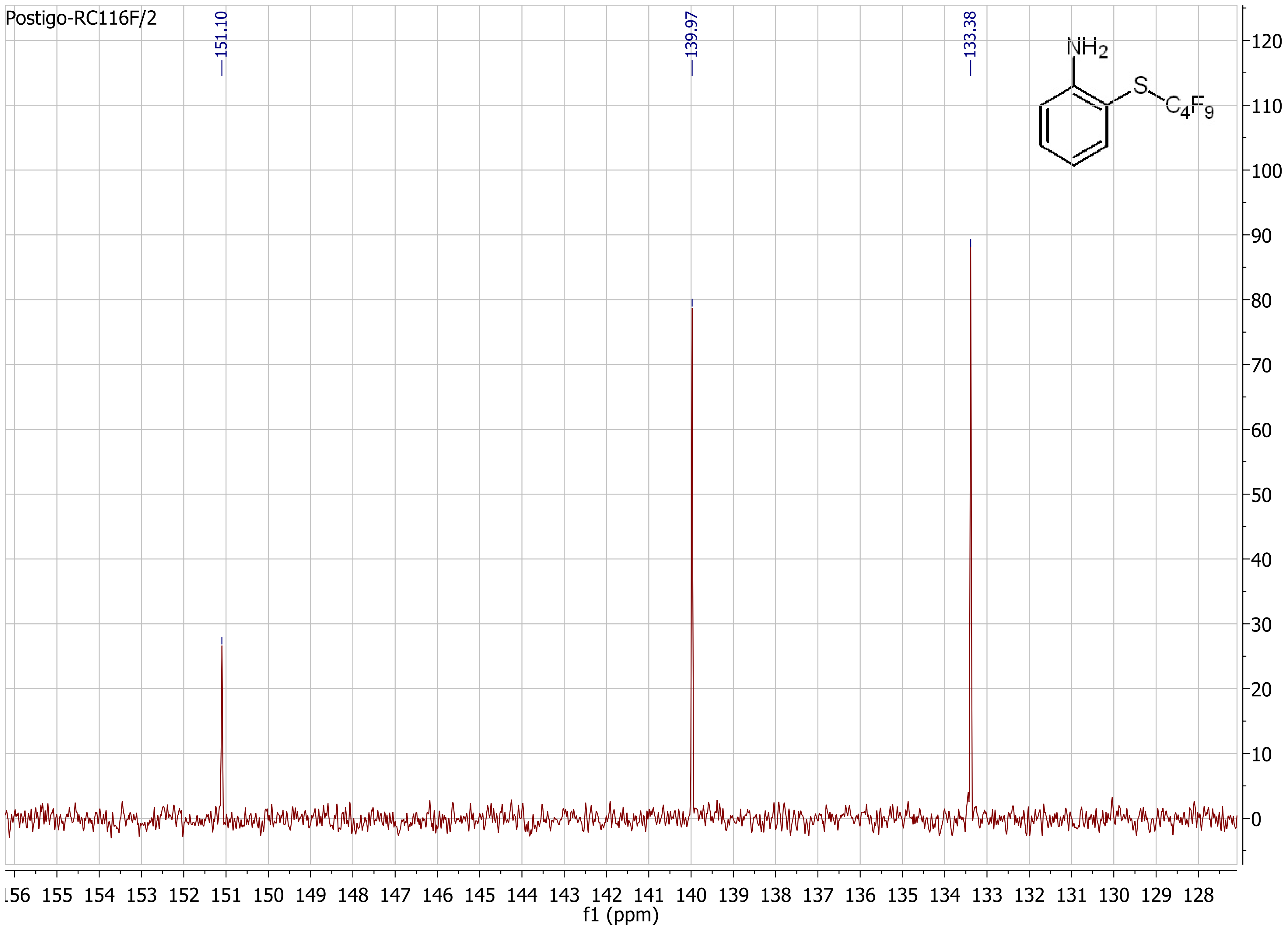
Postigo-RC116F/1
6.78
6.78
6.77
6.77
6.76
6.76
6.74
6.73
6.73
1.02
0.98
f1 (ppm)

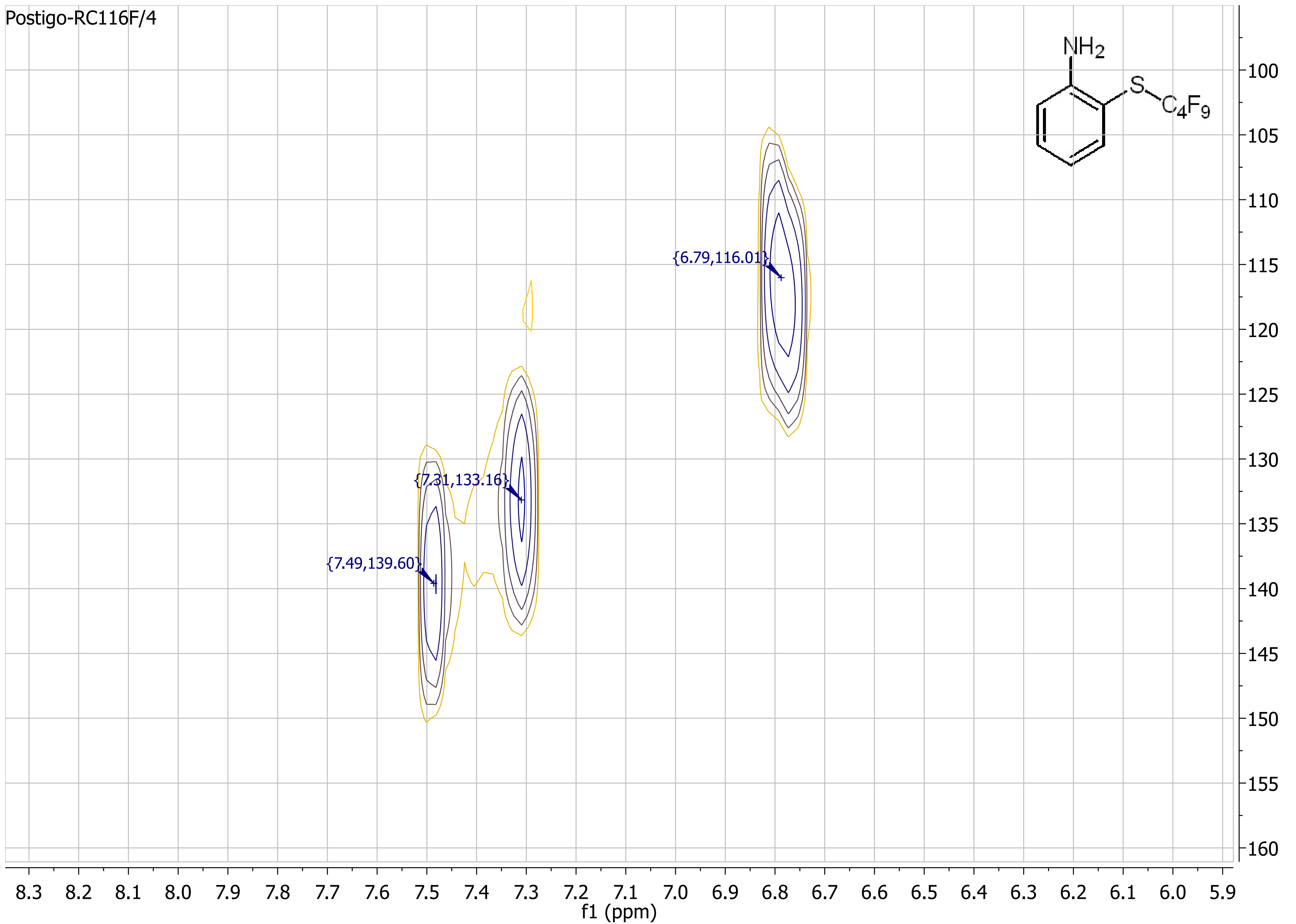

Postigo-RC116F/1
4.45
2.02
NH_2
S
C_4F_9
f1 (ppm)
5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0



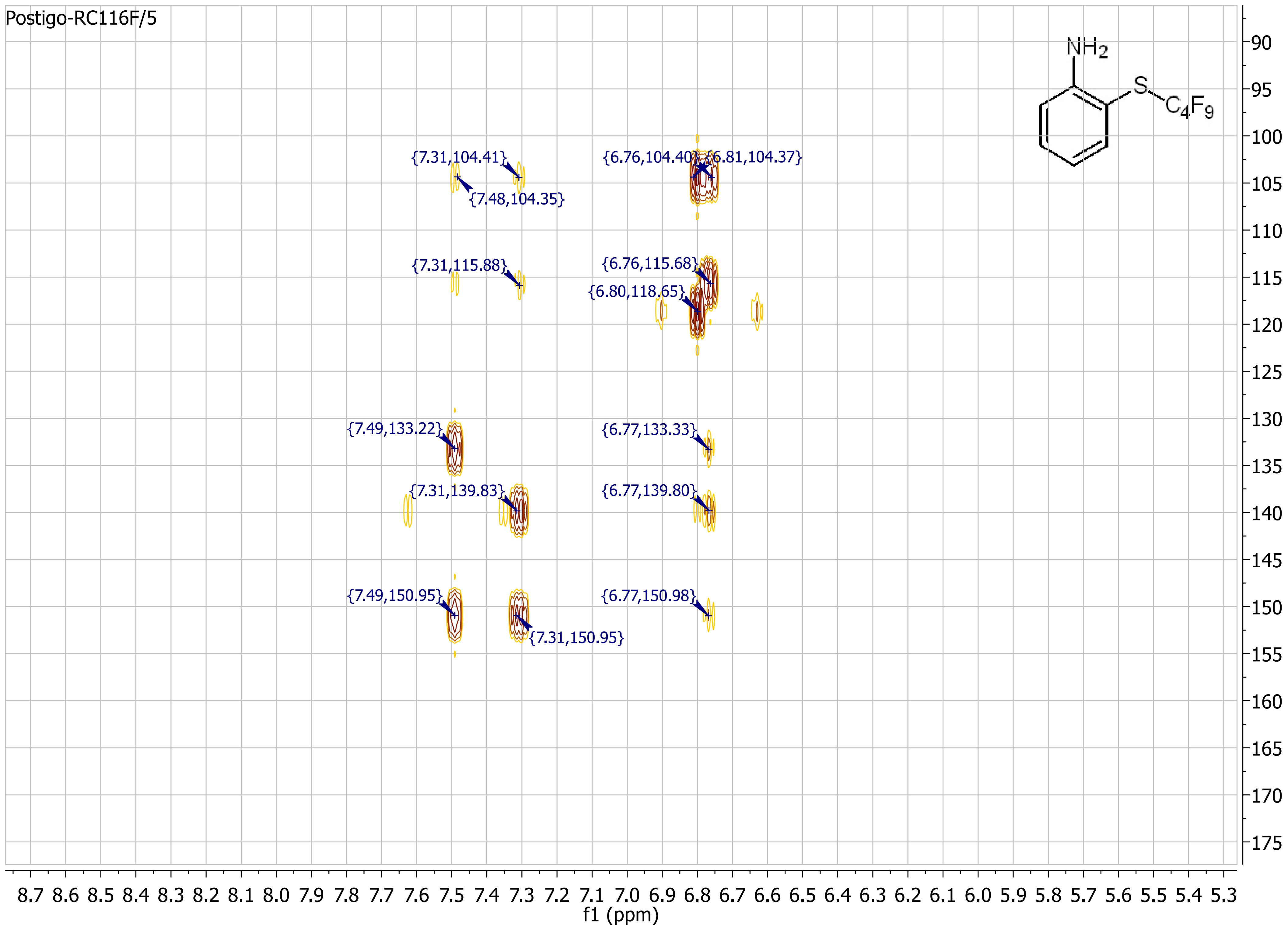
Postigo-RC116F/2
151.10
139.97
133.38
118.80
115.81
104.54
30.20
NH2
S
C4F9
350
300
250
200
150
100
50
0
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)


Postigo-RC116F/2
118.80
115.81
104.54
NH2
S
C4F9
122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101
f1 (ppm)
120 110 100 90 80 70 60 50 40 30 20 10 0

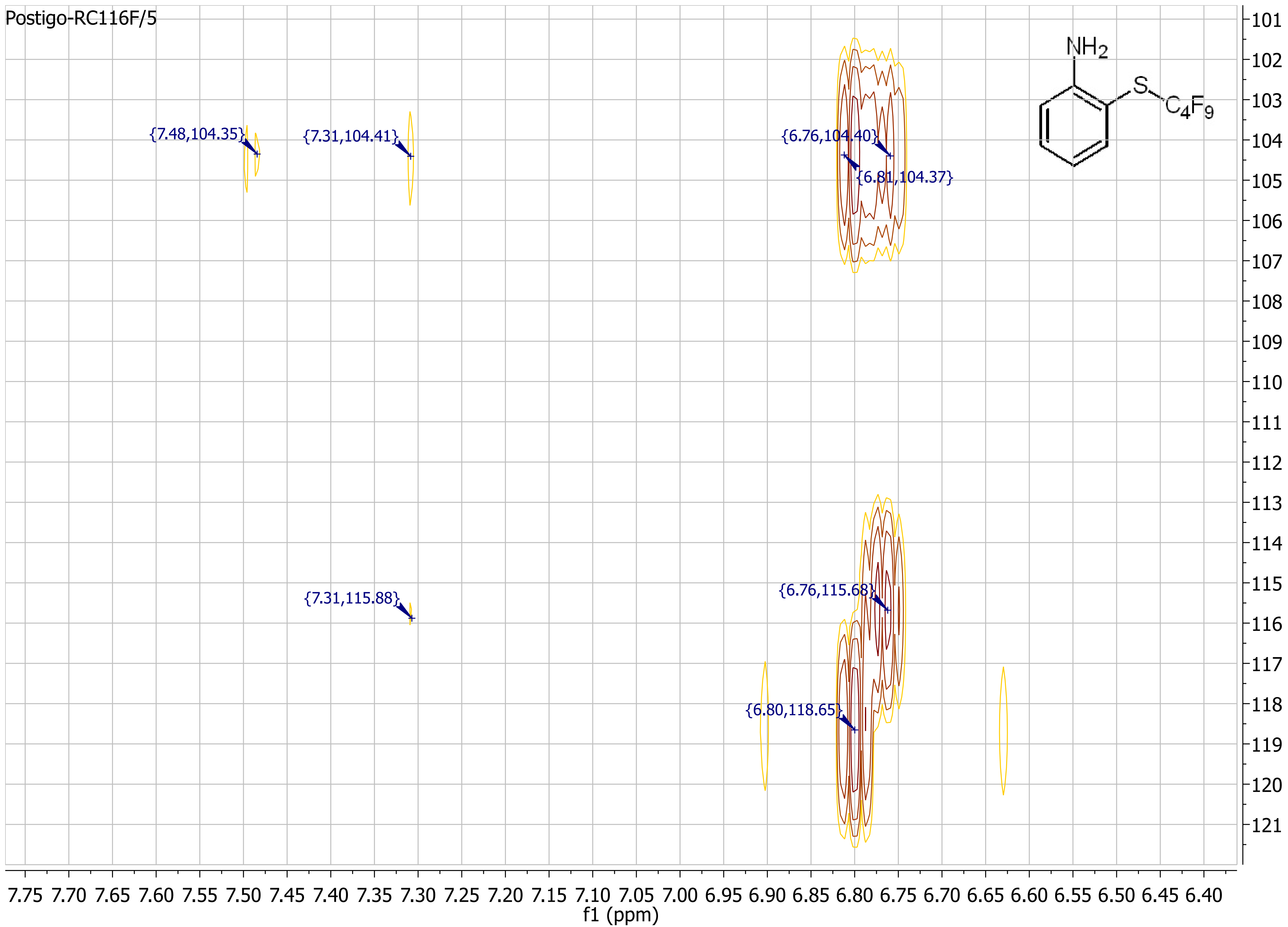

Postigo-RC116F/2
151.10
139.97
133.38
NH2
S
C4F9
f1 (ppm)

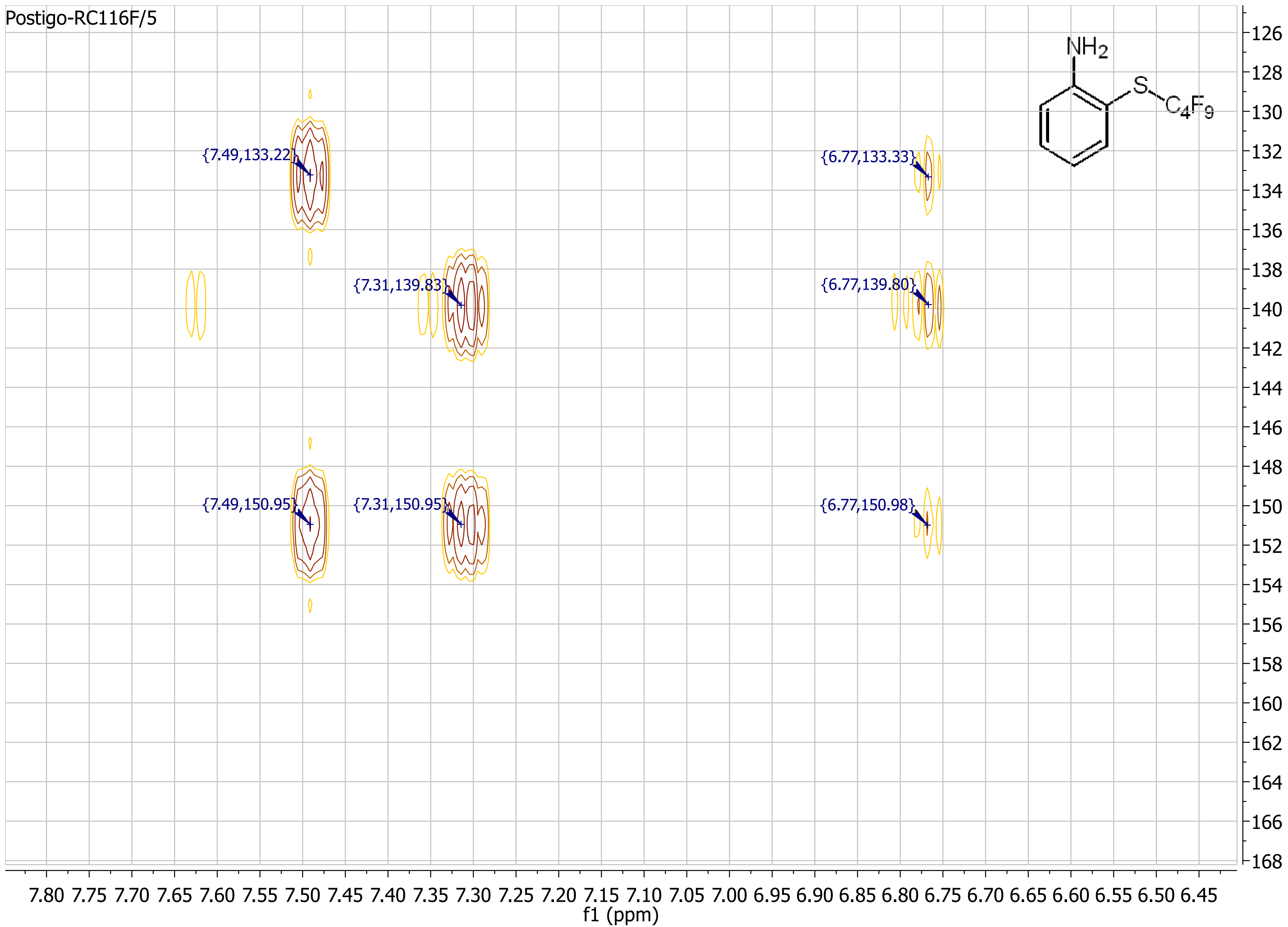


Postigo-RC116F/4
NH2
S
C4F9
{6.79,116.01}
{7.31,133.16}
{7.49,139.60}
f1 (ppm)

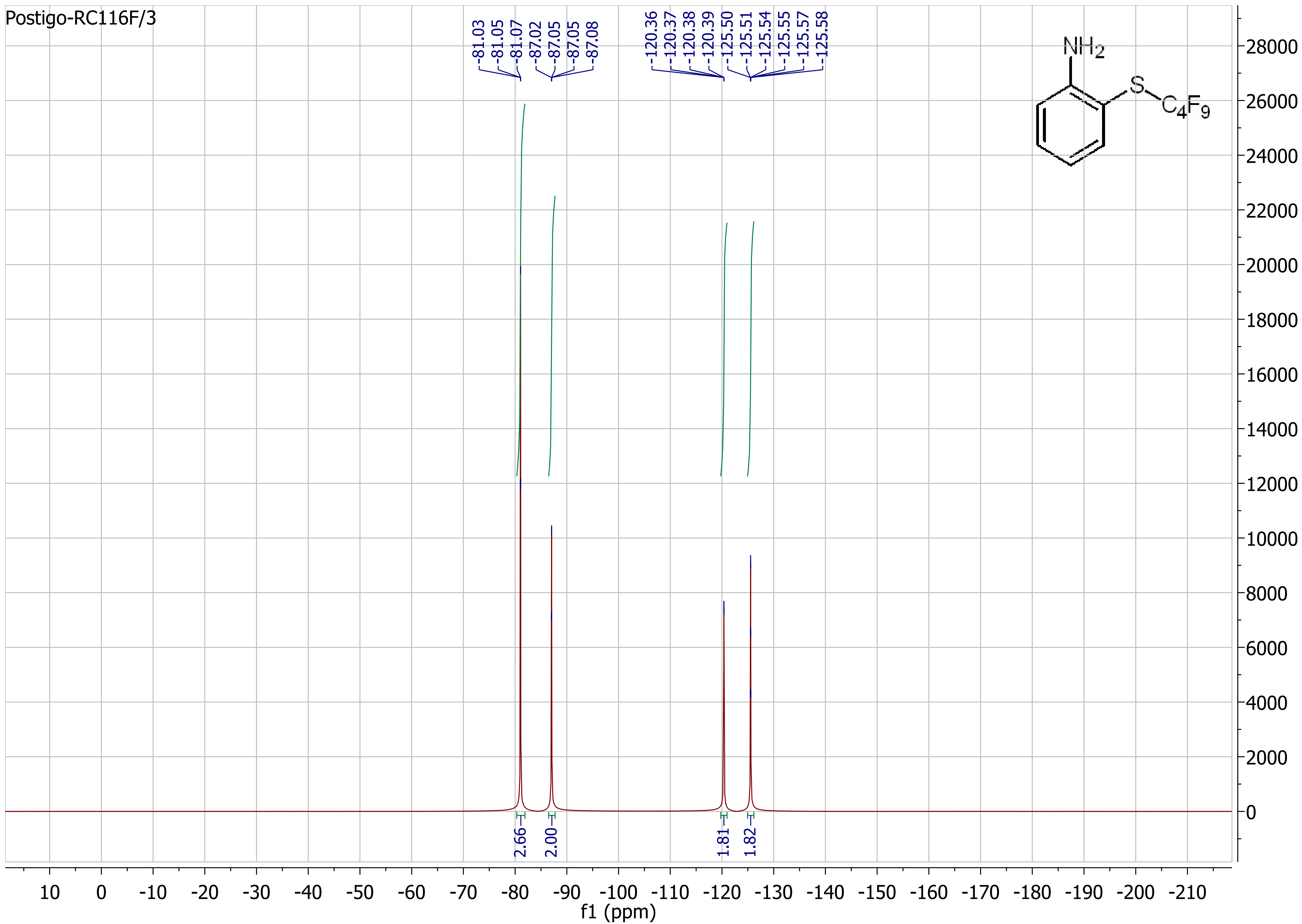


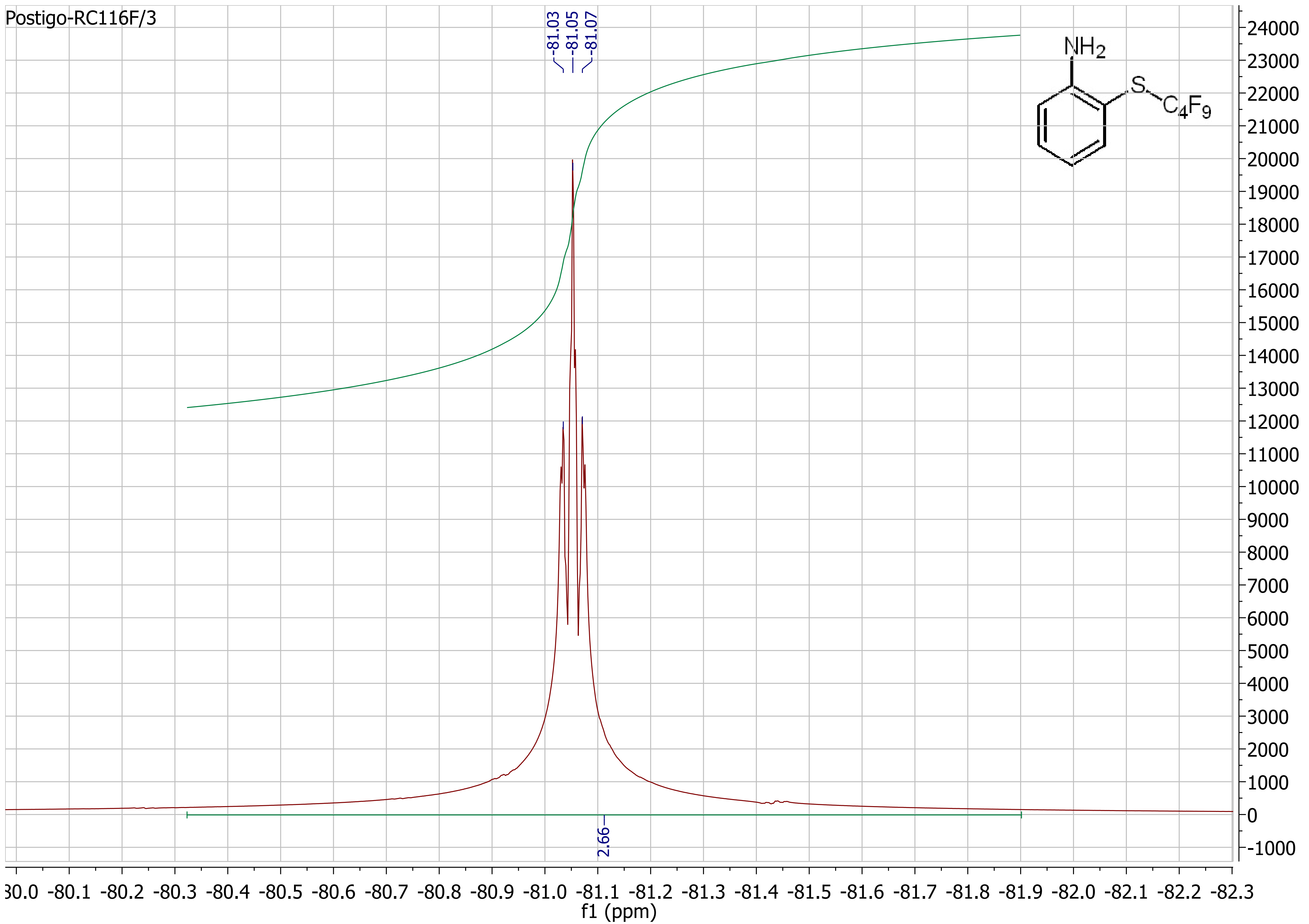
Postigo-RC116F/5
{7.31,104.41}
{7.48,104.35}
{6.76,104.40}
{6.81,104.37}
{7.31,115.88}
{6.76,115.68}
{6.80,118.65}
{7.49,133.22}
{6.77,133.33}
{7.31,139.83}
{6.77,139.80}
{7.49,150.95}
{7.31,150.95}
{6.77,150.98}
NH2
S
C4F9
f1 (ppm)


Postigo-RC116F/5
{7.48,104.35}
{7.31,104.41}
{6.76,104.40}
{6.81,104.37}
{7.31,115.88}
{6.76,115.68}
{6.80,118.65}
NH2
S
C4F9
f1 (ppm)

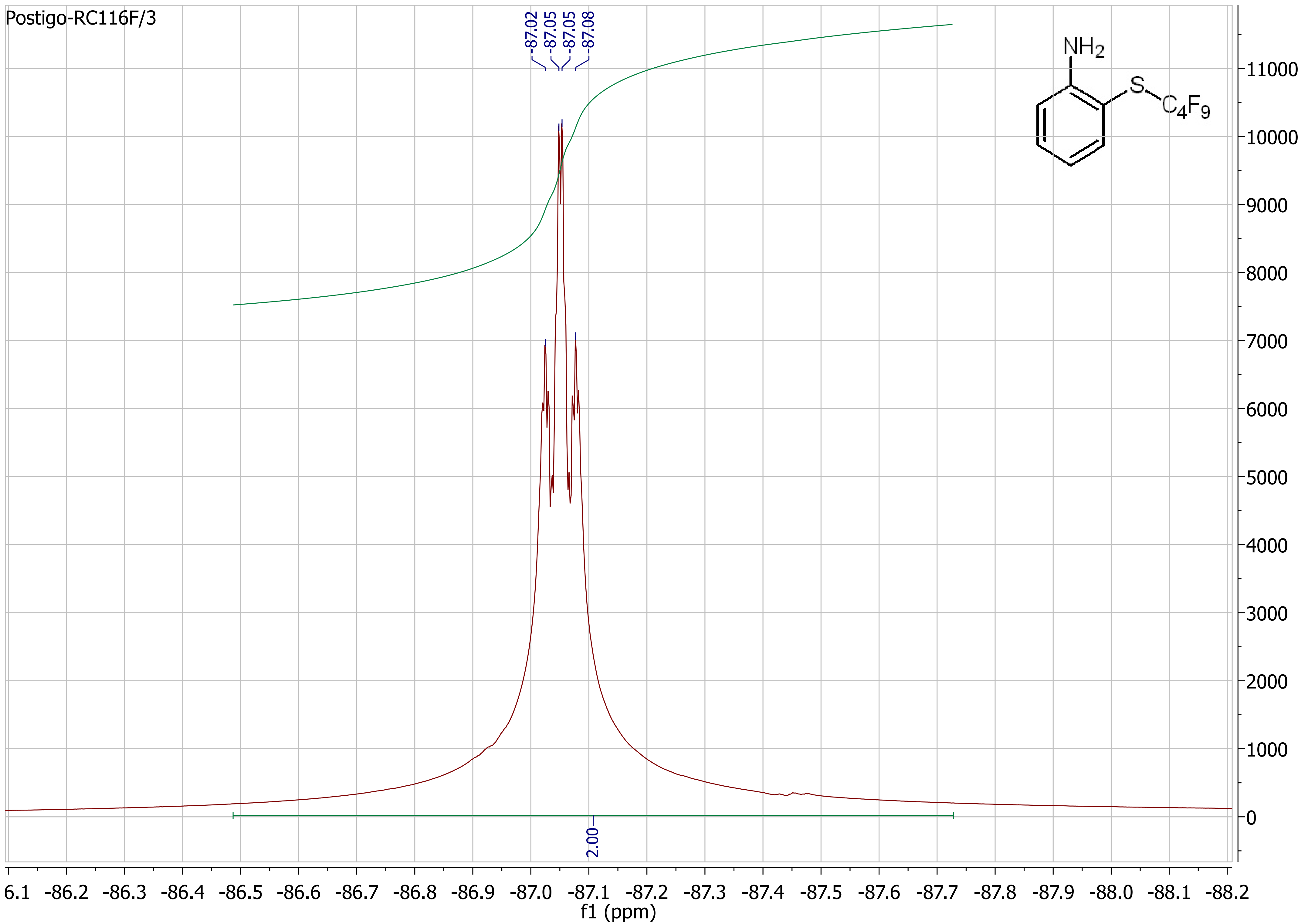


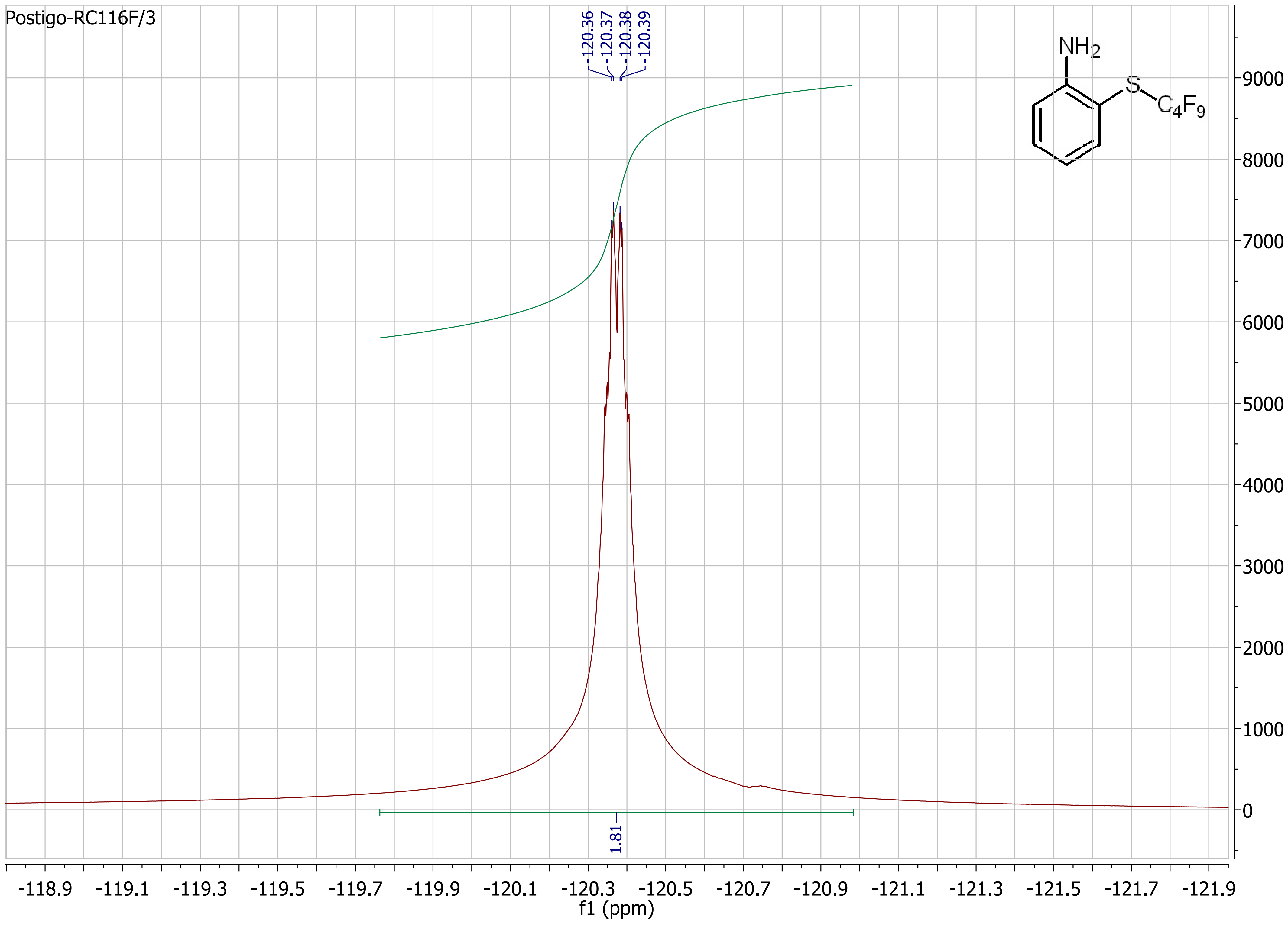
Postigo-RC116F/5
{7.49,133.22}
{6.77,133.33}
{7.31,139.83}
{6.77,139.80}
{7.49,150.95}
{7.31,150.95}
{6.77,150.98}
NH2
S
C4F9
f1 (ppm)

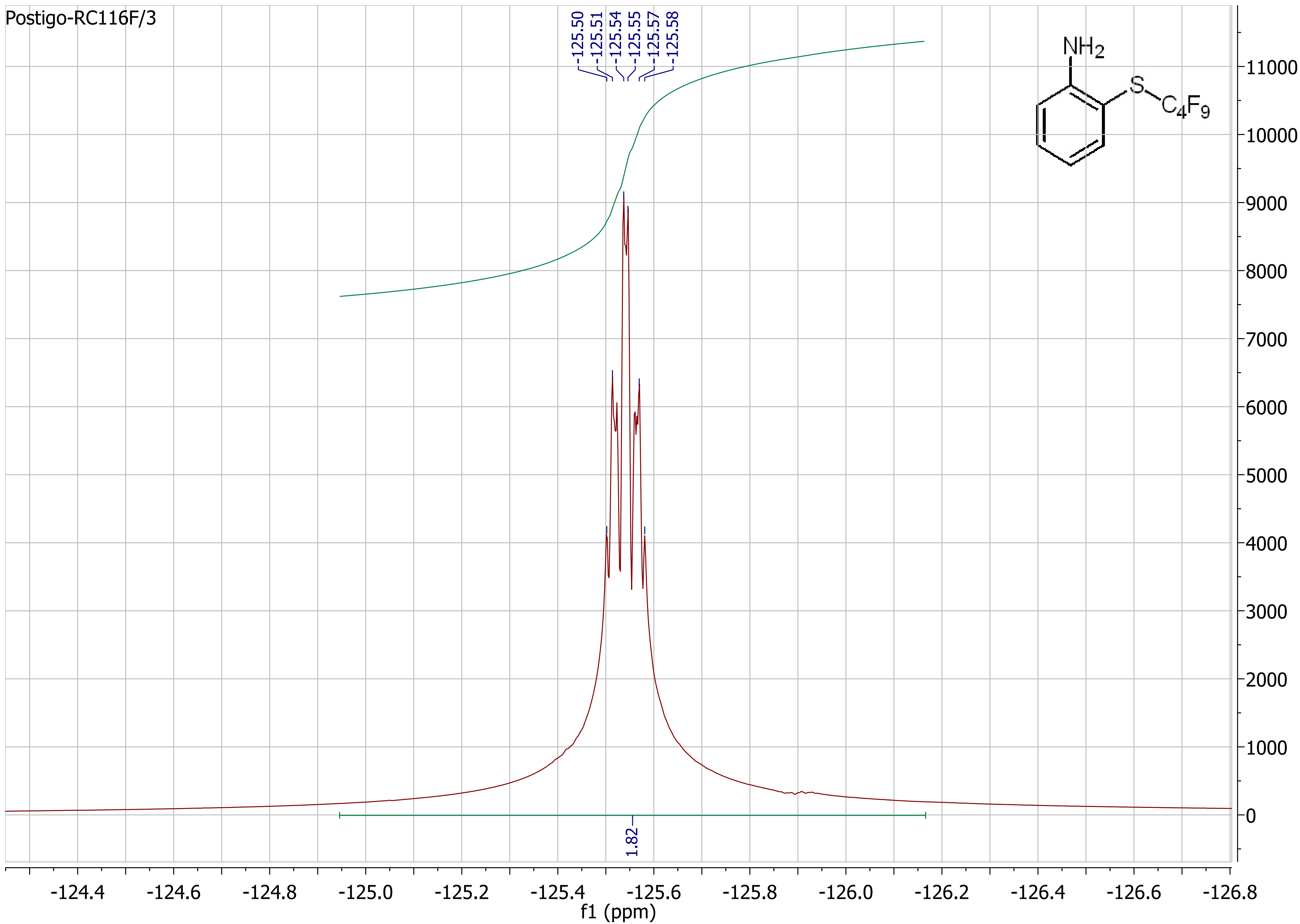

Postigo-RC116F/3
-81.03
-81.05
-81.07
-87.02
-87.05
-87.05
-87.08
-120.36
-120.37
-120.38
-120.39
-125.50
-125.51
-125.54
-125.55
-125.57
-125.58
NH2
S
C4F9
2.66
2.00
1.81
1.82
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
-210
f1 (ppm)

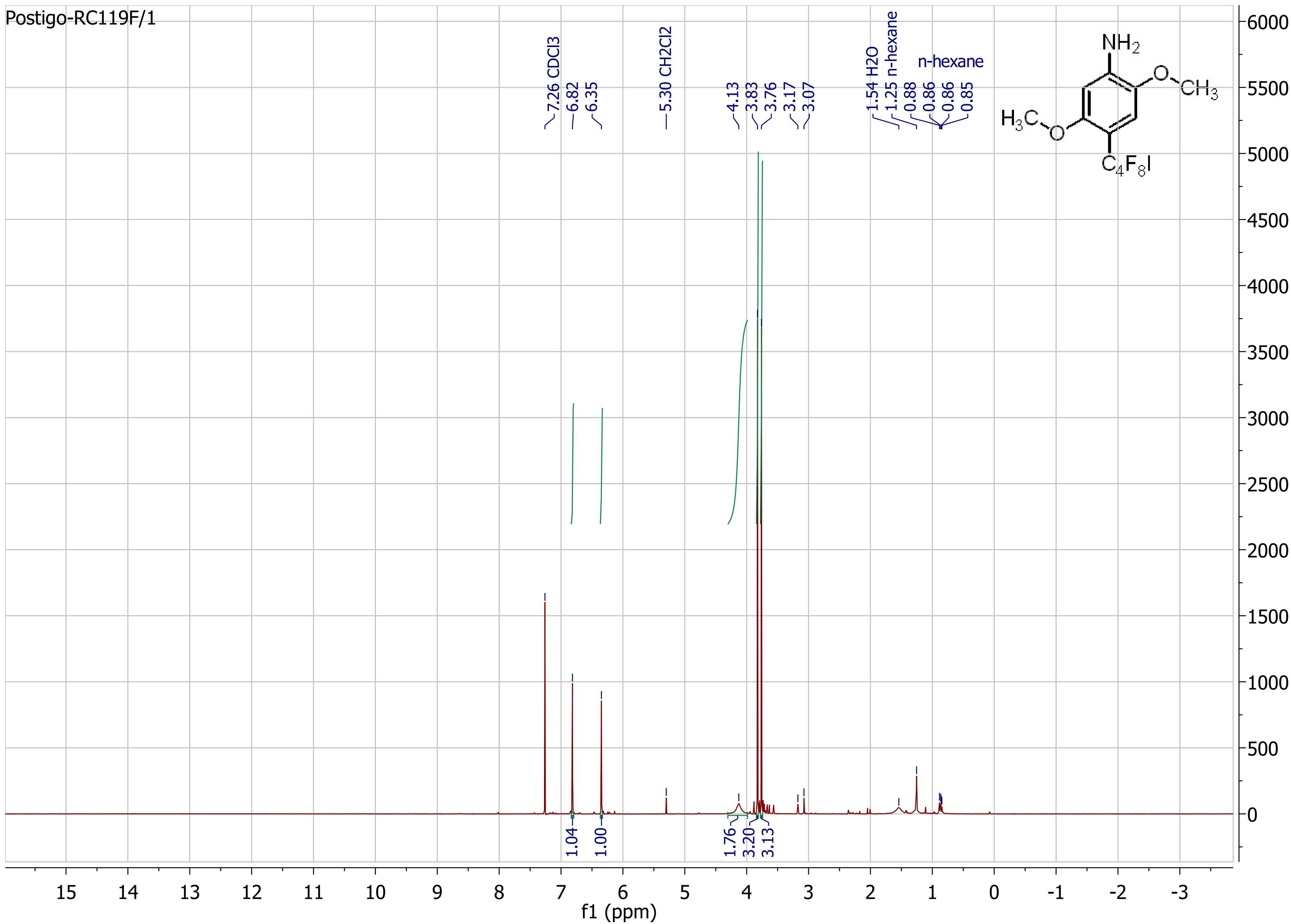


Postigo-RC116F/3
-81.03
-81.05
-81.07
NH2
S
C4F9
2.66
f1 (ppm)

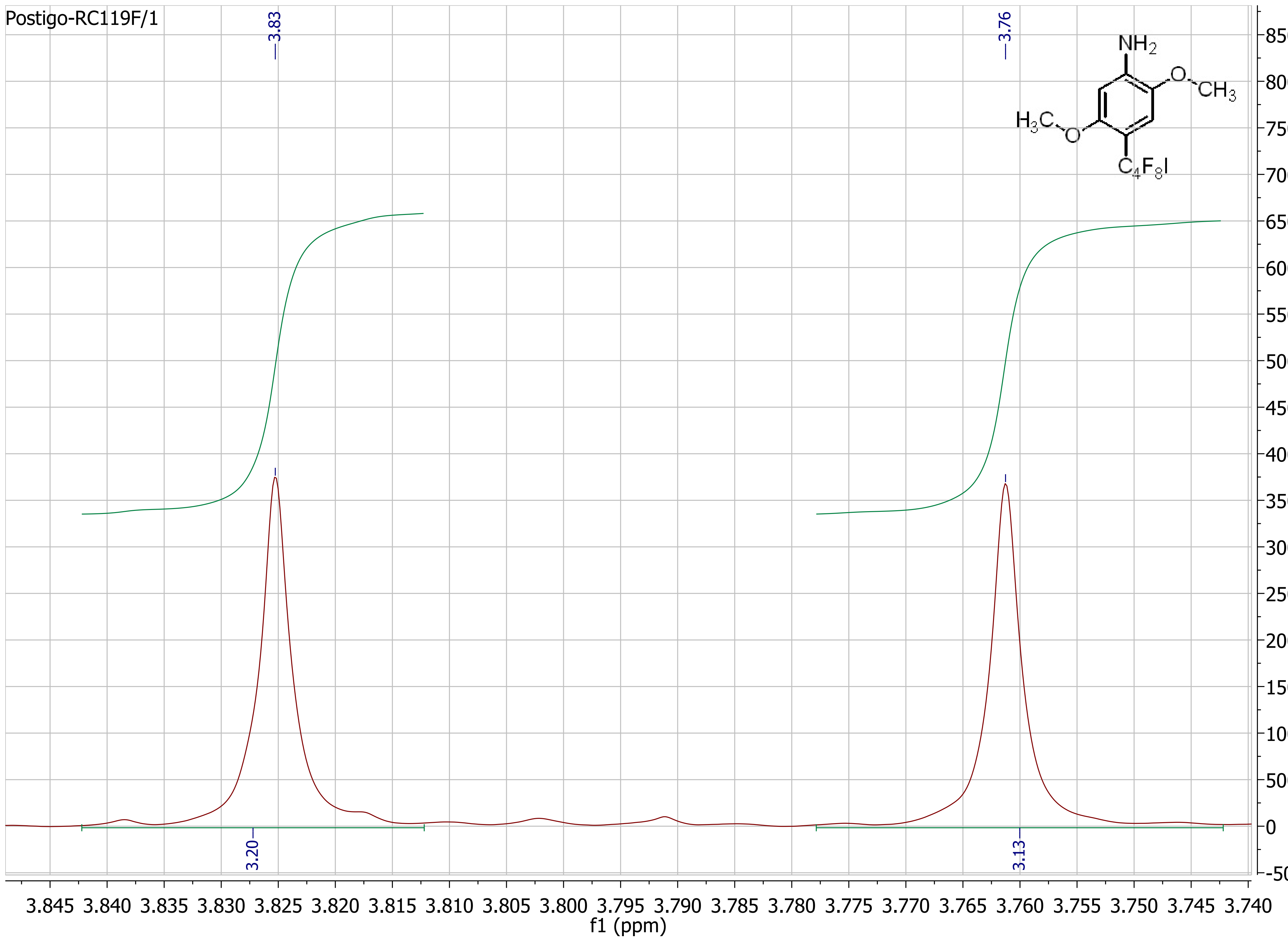

Postigo-RC116F/3
-87.02
-87.05
-87.05
-87.08
NH2
S
C4F9
2.00
f1 (ppm)


Postigo-RC116F/3
-120.36
-120.37
-120.38
-120.39
NH_2
S
C_4F_9
1.81
f1 (ppm)

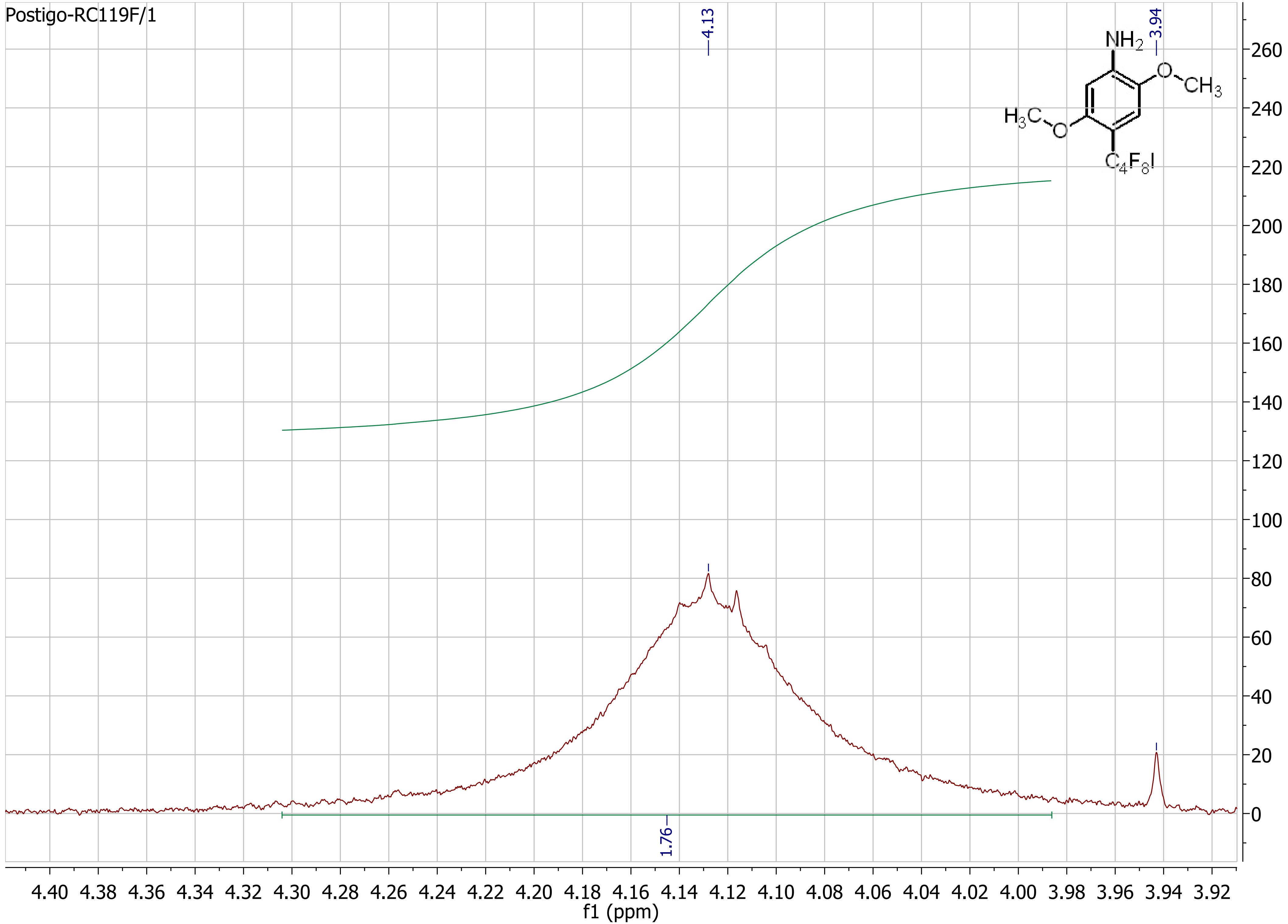

Postigo-RC116F/3
-125.50
-125.51
-125.54
-125.55
-125.57
-125.58
NH2
S
C4F9
1.82
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-124.4
-124.6
-124.8
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
f1 (ppm)

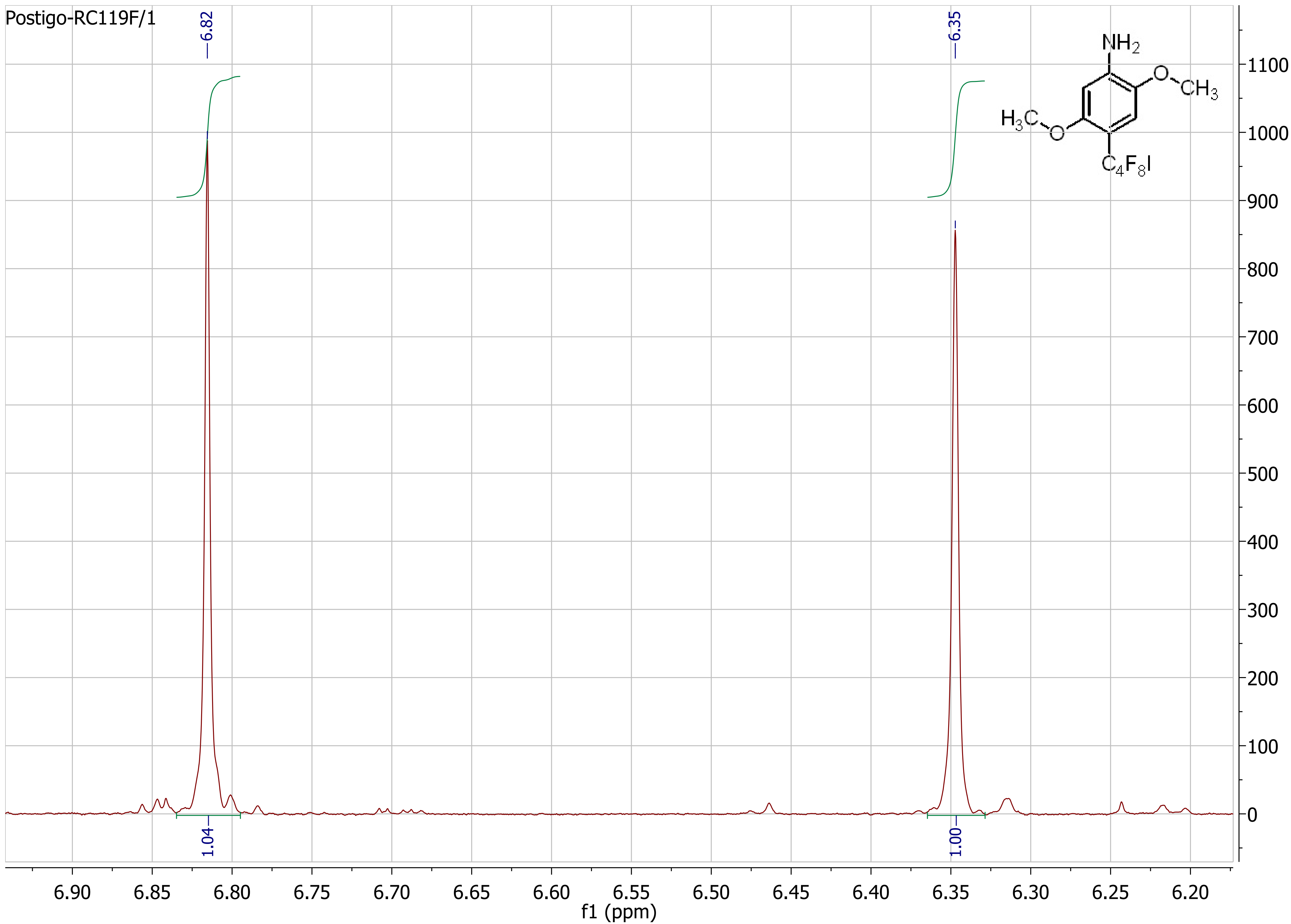


Postigo-RC119F/1
7.26 CDCl3
6.82
6.35
5.30 CH2Cl2
4.13
3.83
3.76
3.17
3.07
1.54 H2O
1.25 n-hexane
0.88
0.86
0.86
0.85
n-hexane
NH2
O
CH3
H3C
O
C4F8I
1.04
1.00
1.76
3.20
3.13
f1 (ppm)

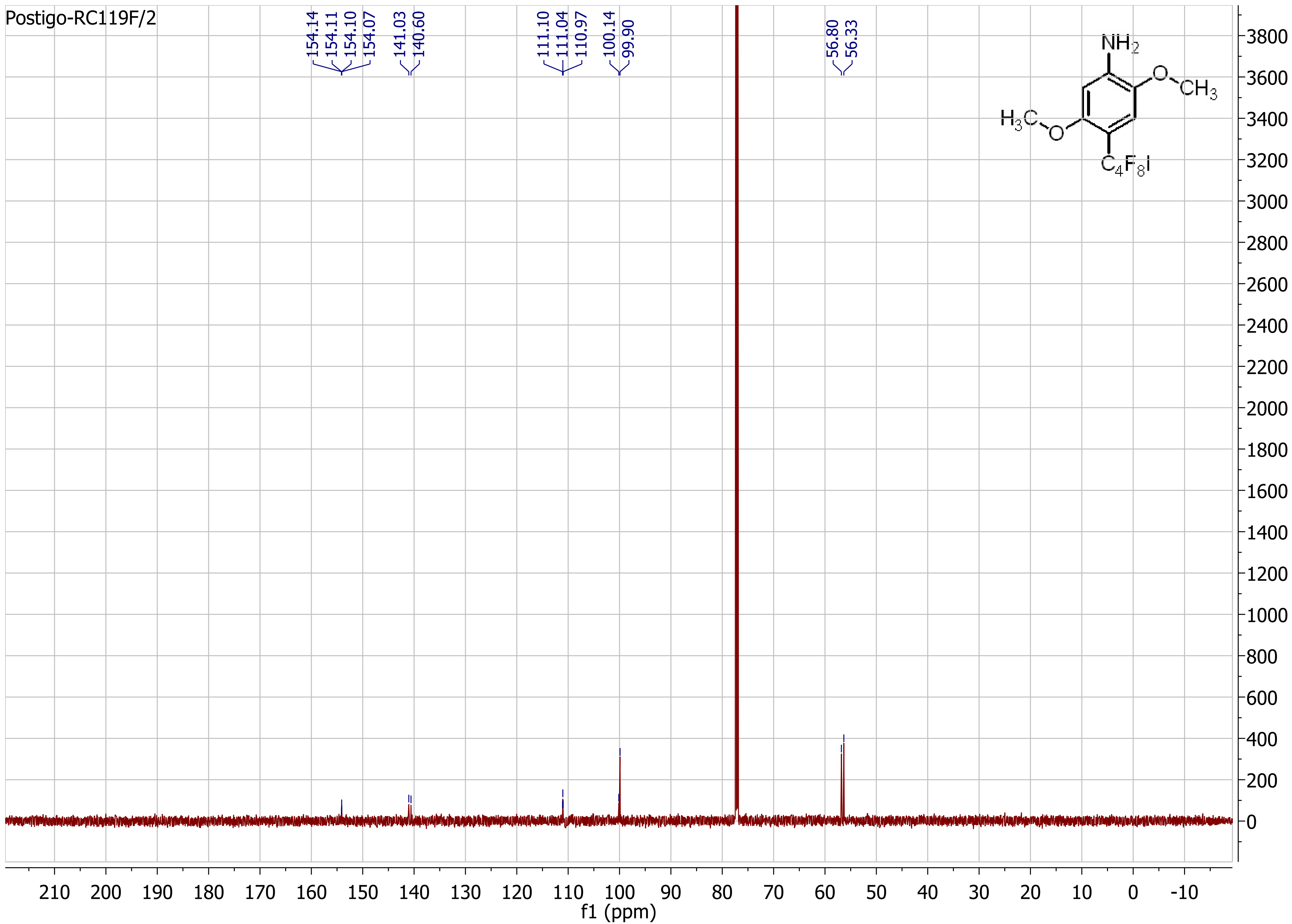


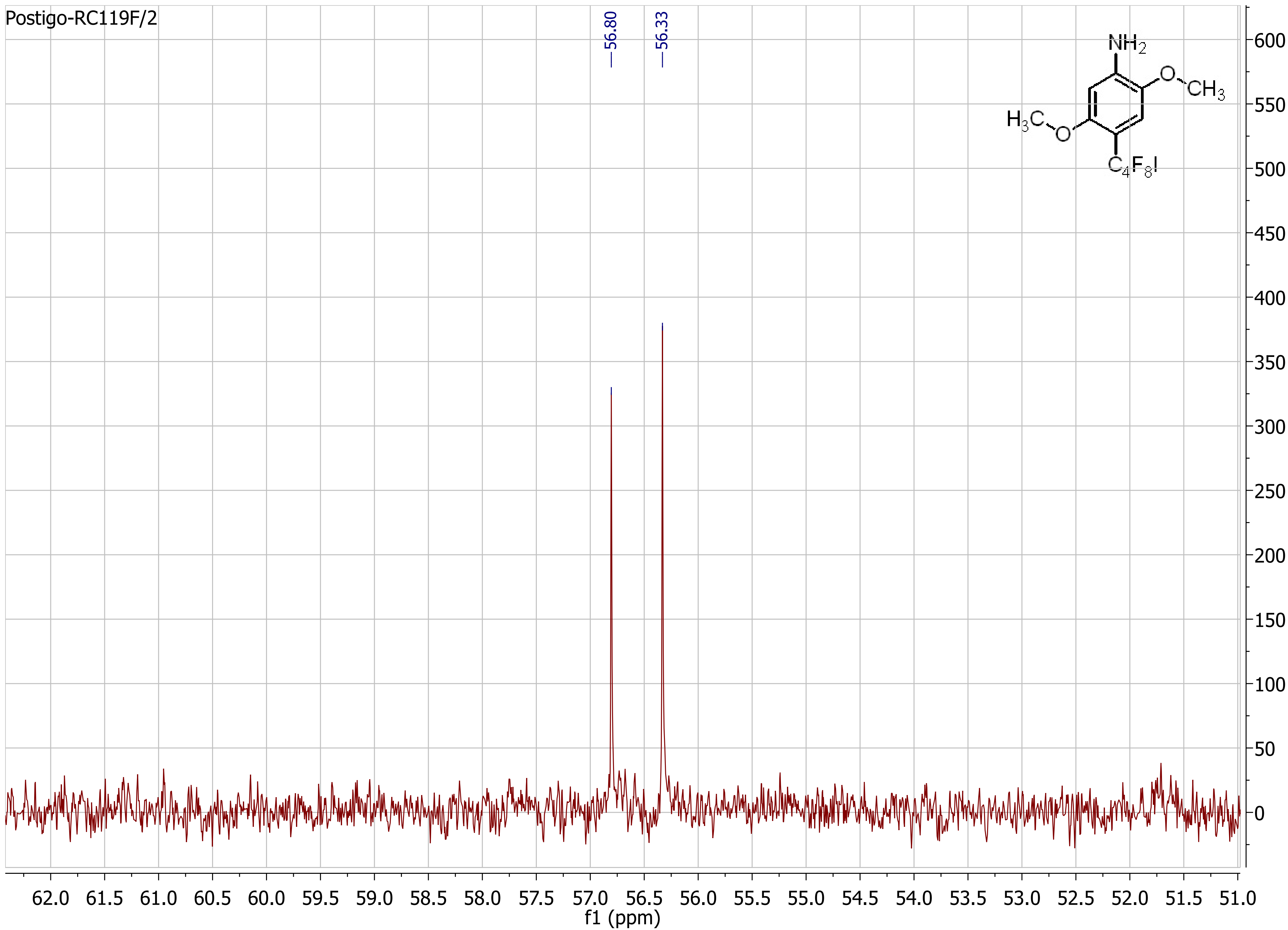
Postigo-RC119F/1
3.83
3.76
NH2
O
CH3
H3C
O
C4F8I
3.20
3.13
f1 (ppm)

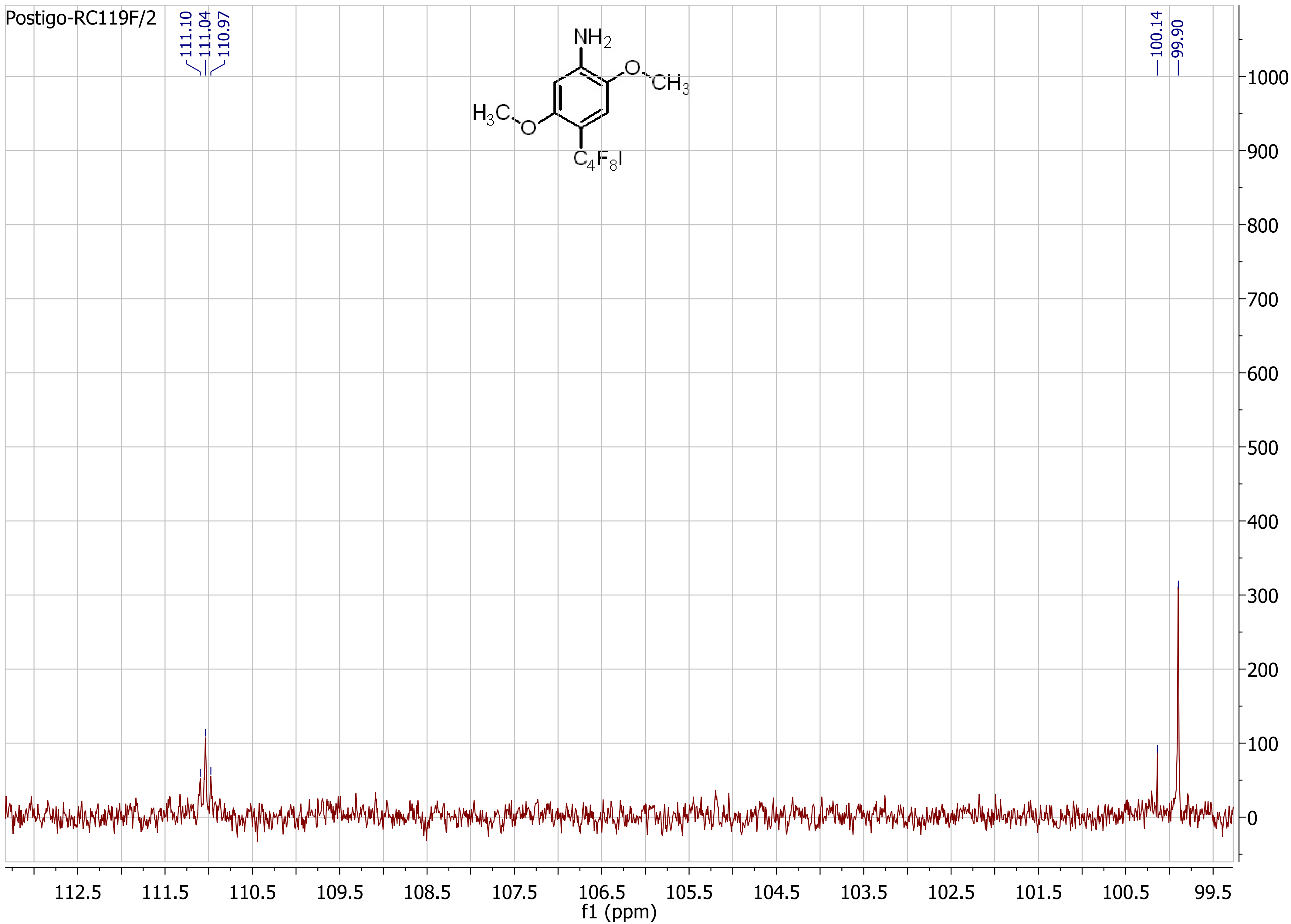

Postigo-RC119F/1
4.13
3.94
NH2
O
CH3
H3C
O
C4F8I
1.76
4.40 4.38 4.36 4.34 4.32 4.30 4.28 4.26 4.24 4.22 4.20 4.18 4.16 4.14 4.12 4.10 4.08 4.06 4.04 4.02 4.00 3.98 3.96 3.94 3.92
f1 (ppm)
260
240
220
200
180
160
140
120
100
80
60
40
20
0



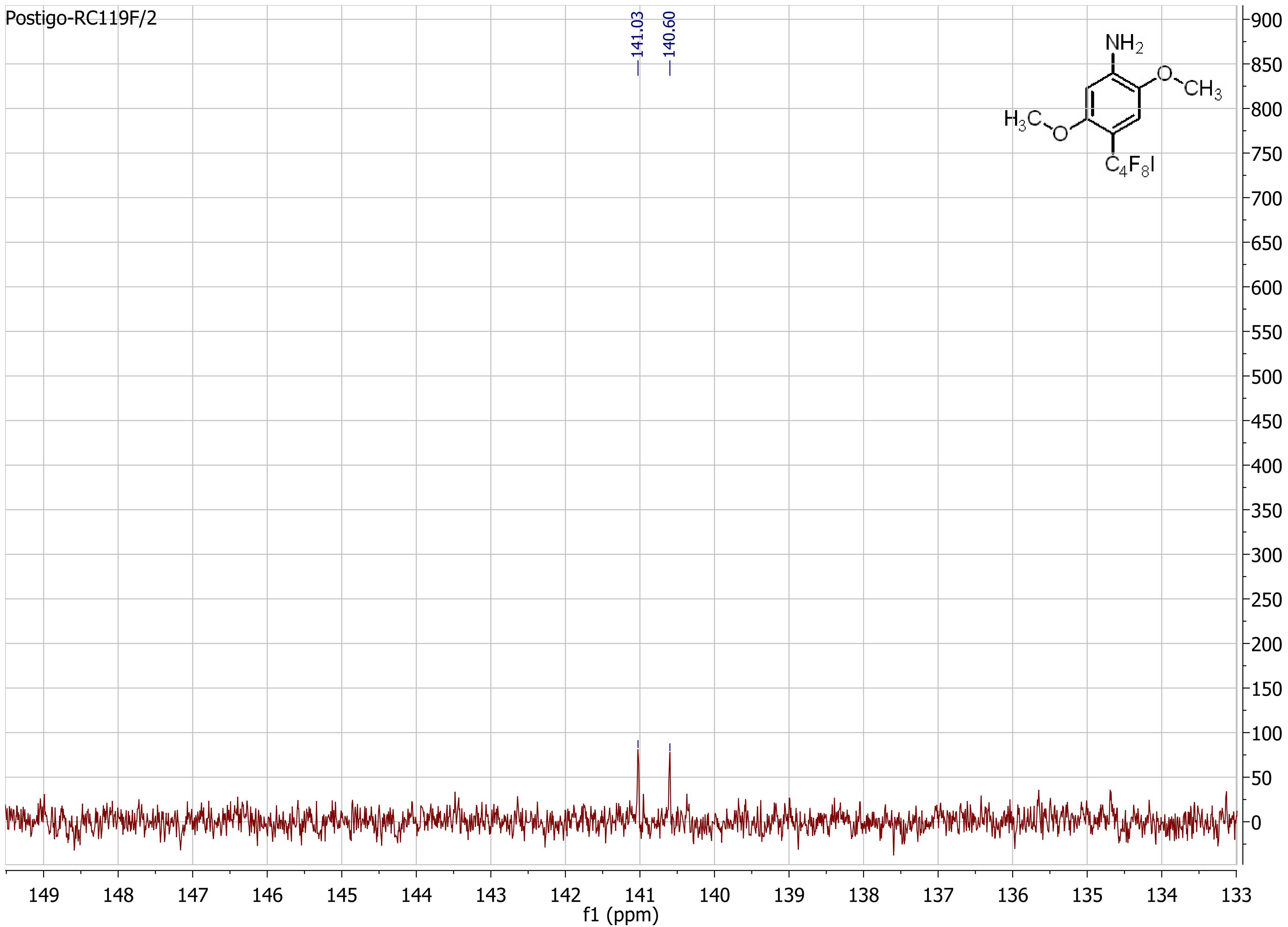
Postigo-RC119F/1
6.82
6.35
NH2
O
CH3
H3C
O
C4F8I
1.04
1.00
f1 (ppm)


Postigo-RC119F/2
154.14
154.11
154.10
154.07
141.03
140.60
111.10
111.04
110.97
100.14
99.90
56.80
56.33
NH2
O
CH3
H3C
O
C4F8I
f1 (ppm)

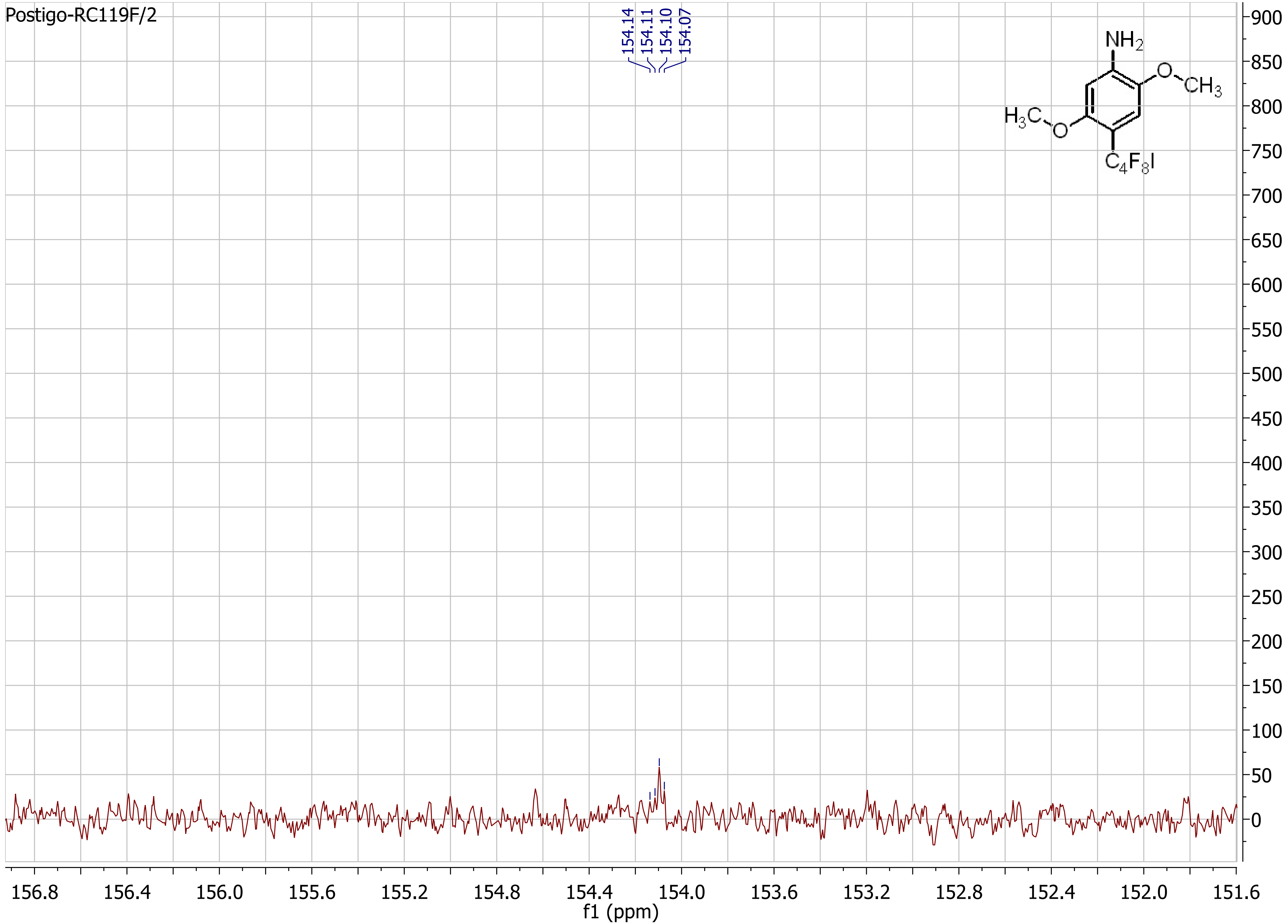

Postigo-RC119F/2
56.80
56.33
NH2
O
CH3
H3C
O
C4F8I
600
550
500
450
400
350
300
250
200
150
100
50
0
62.0 61.5 61.0 60.5 60.0 59.5 59.0 58.5 58.0 57.5 57.0 56.5 56.0 55.5 55.0 54.5 54.0 53.5 53.0 52.5 52.0 51.5 51.0
f1 (ppm)



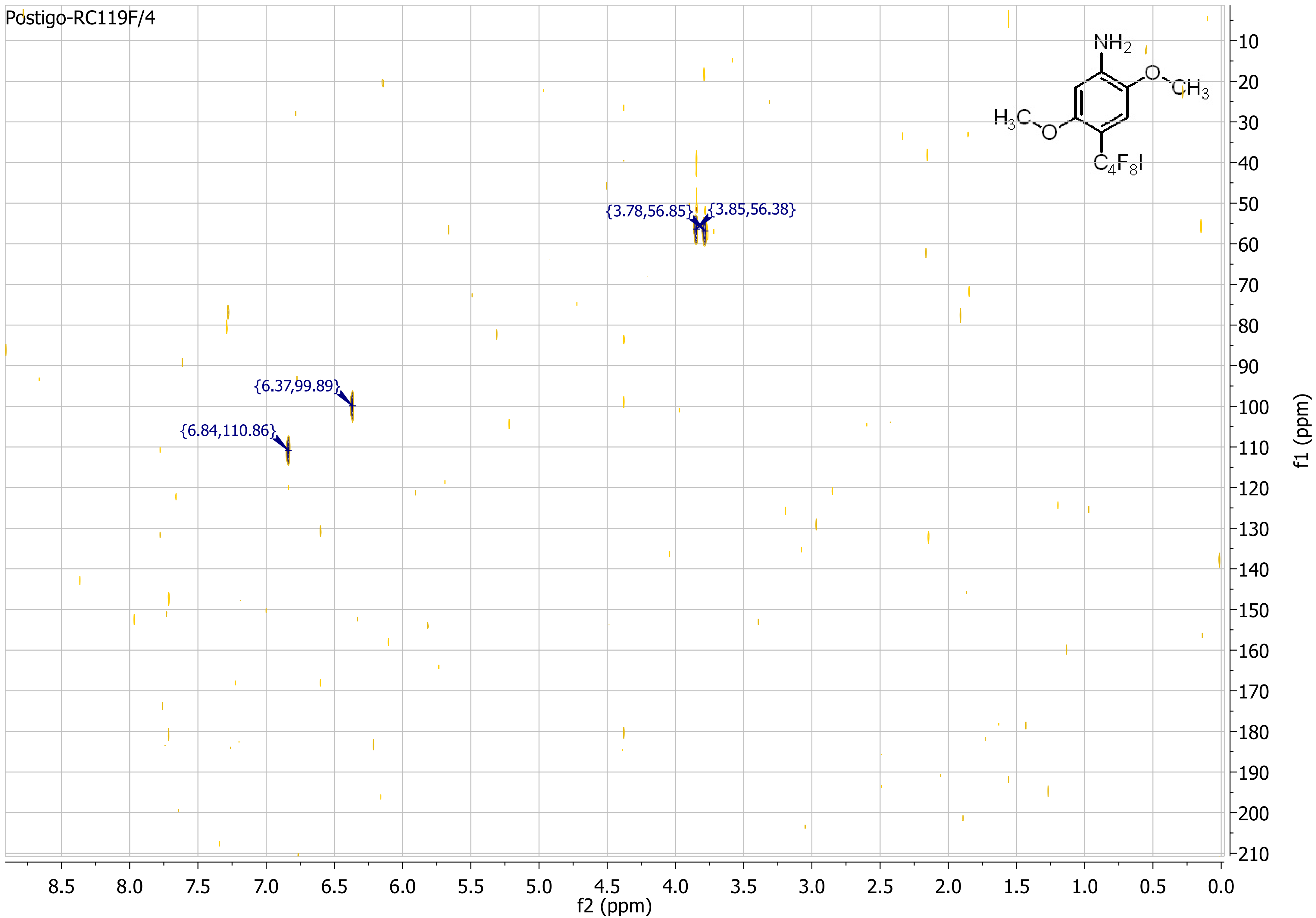
Postigo-RC119F/2
111.10
111.04
110.97
100.14
99.90
NH2
O
CH3
H3C
O
C4F8I
1000
900
800
700
600
500
400
300
200
100
0
112.5
111.5
110.5
109.5
108.5
107.5
106.5
105.5
104.5
103.5
102.5
101.5
100.5
99.5
f1 (ppm)



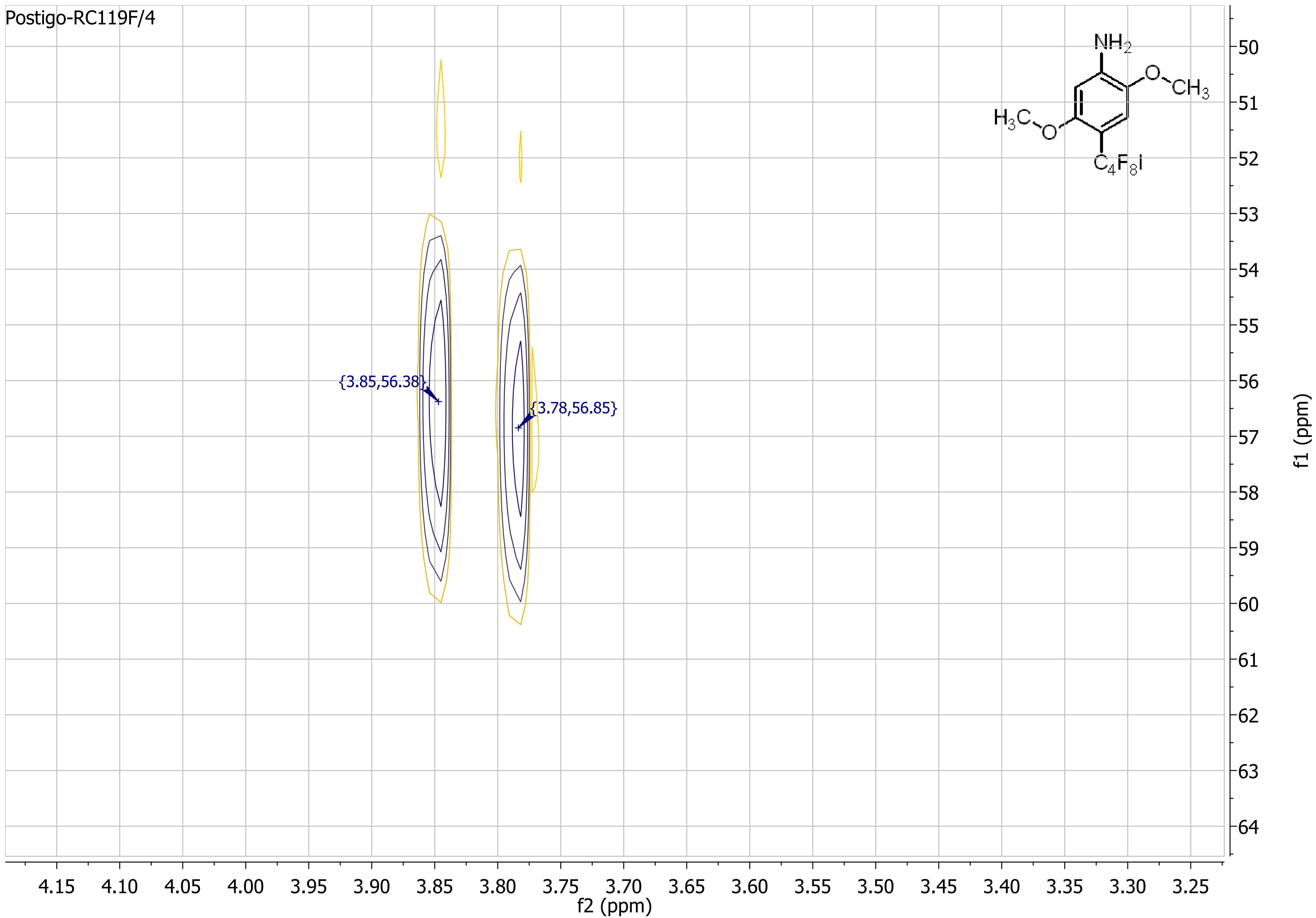
Postigo-RC119F/2
141.03
140.60
NH2
O
CH3
H3C
O
C4F8I
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
149
148
147
146
145
144
143
142
141
140
139
138
137
136
135
134
133
f1 (ppm)



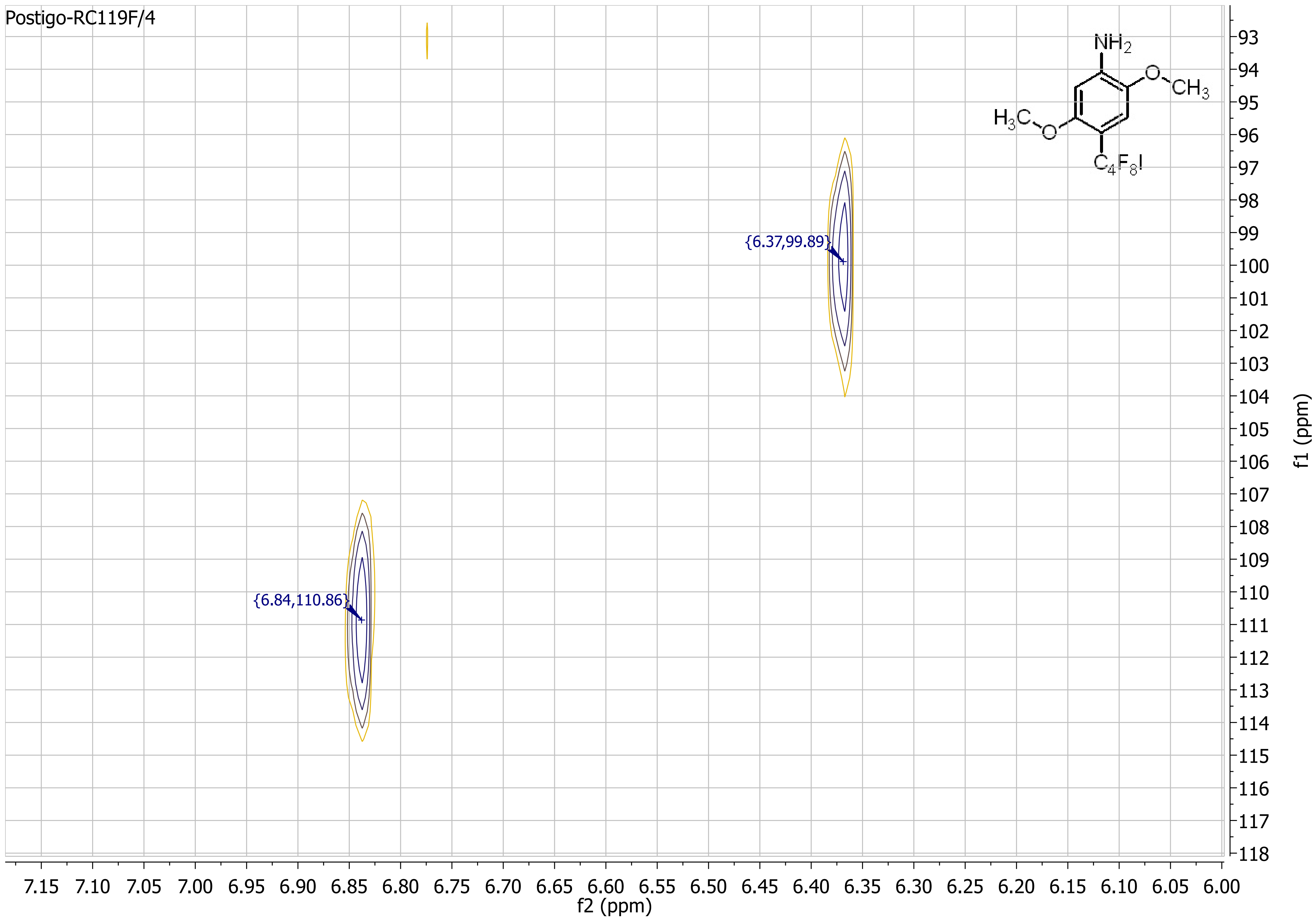
Postigo-RC119F/2
154.14
154.11
154.10
154.07
NH2
O
CH3
H3C
O
C4F8I
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
156.8
156.4
156.0
155.6
155.2
154.8
154.4
154.0
153.6
153.2
152.8
152.4
152.0
151.6
f1 (ppm)



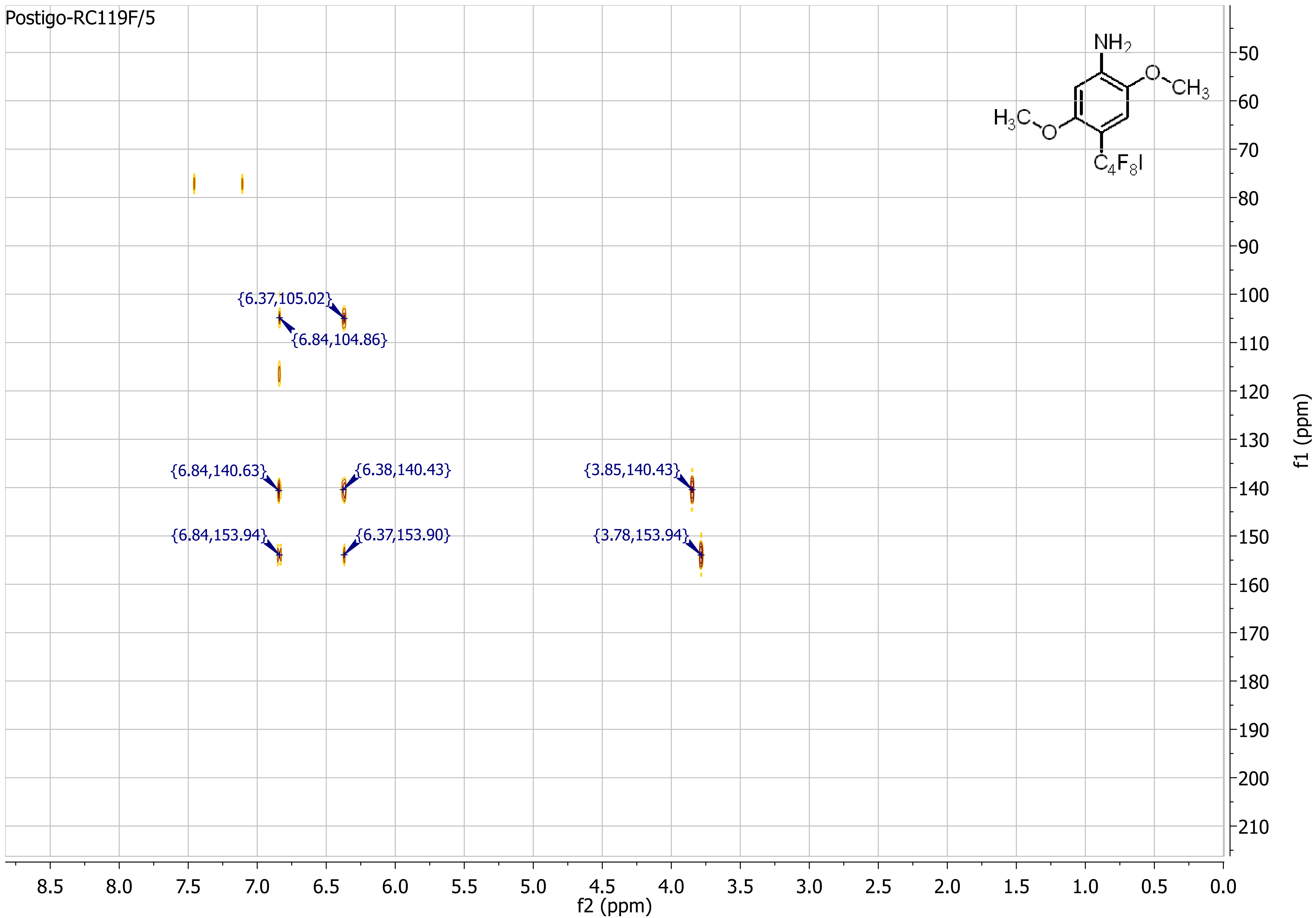
Postigo-RC119F/4
NH2
O
CH3
H3C
O
C4F8I
{3.78,56.85}
{3.85,56.38}
{6.37,99.89}
{6.84,110.86}
f2 (ppm)
f1 (ppm)



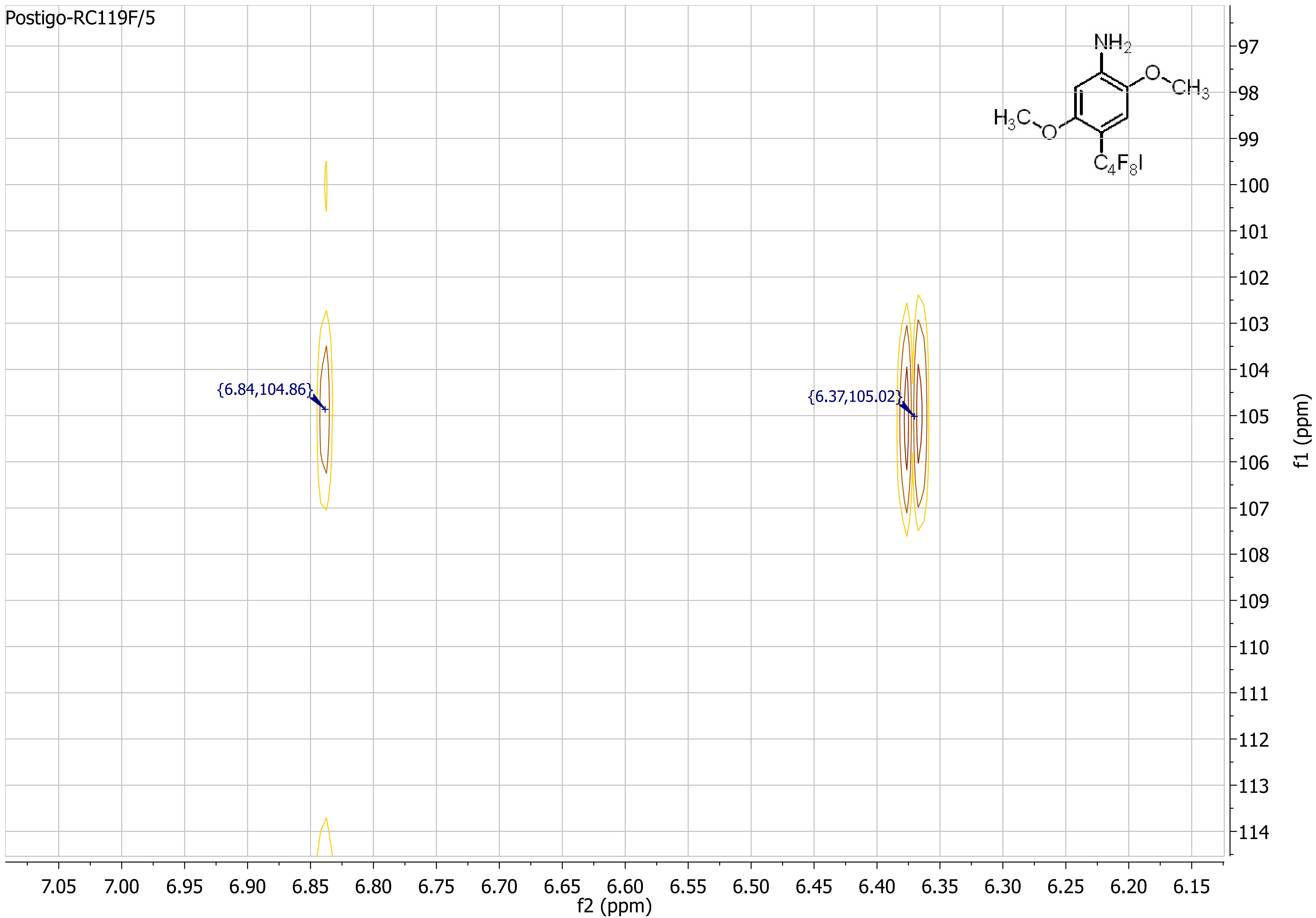
Postigo-RC119F/4
NH2
O
CH3
H3C
O
C4F8I
{3.85,56.38}
{3.78,56.85}
f2 (ppm)
f1 (ppm)



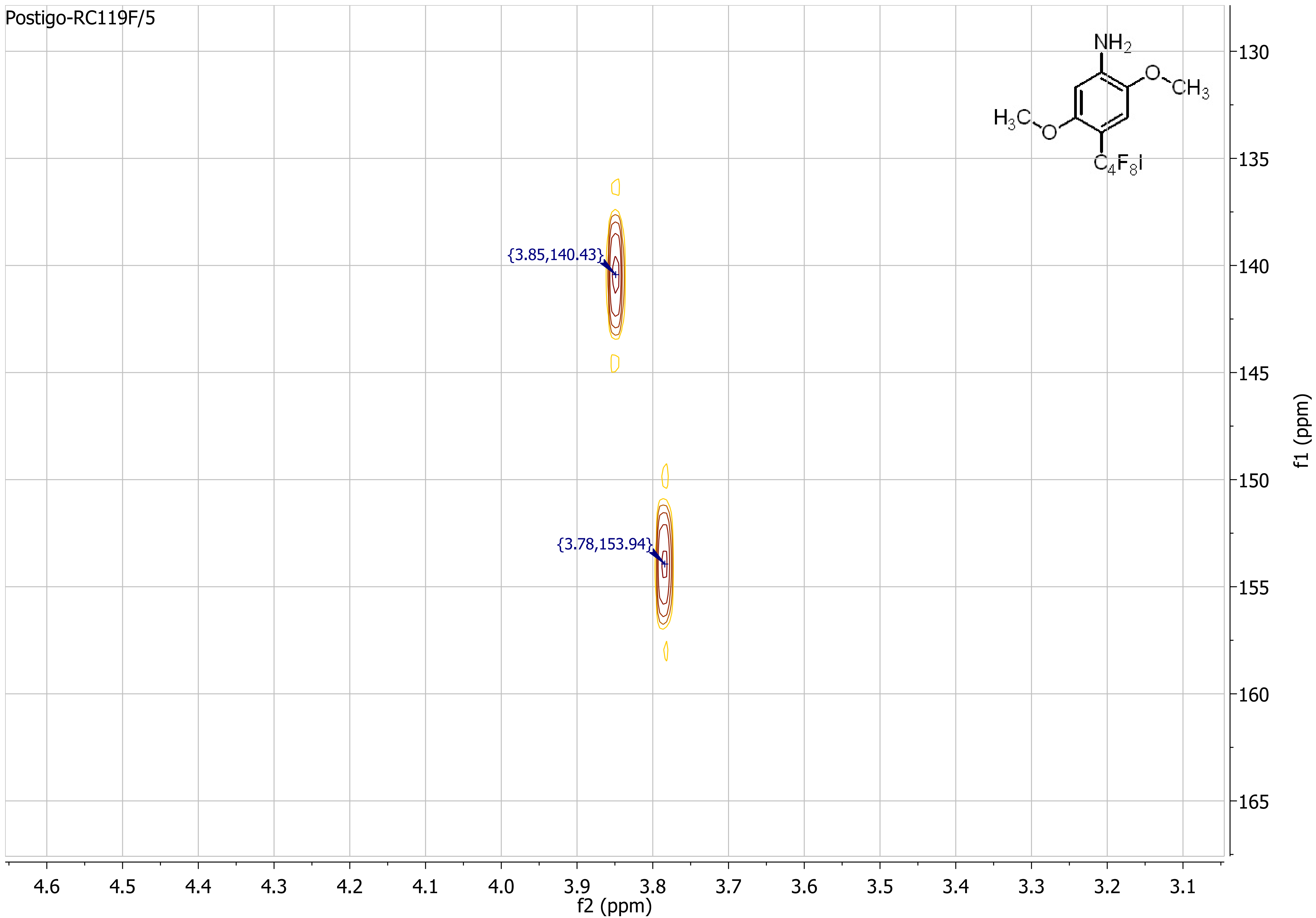
Postigo-RC119F/4
NH2
O
CH3
H3C
O
C4F8I
{6.37,99.89}
{6.84,110.86}
f2 (ppm)
f1 (ppm)



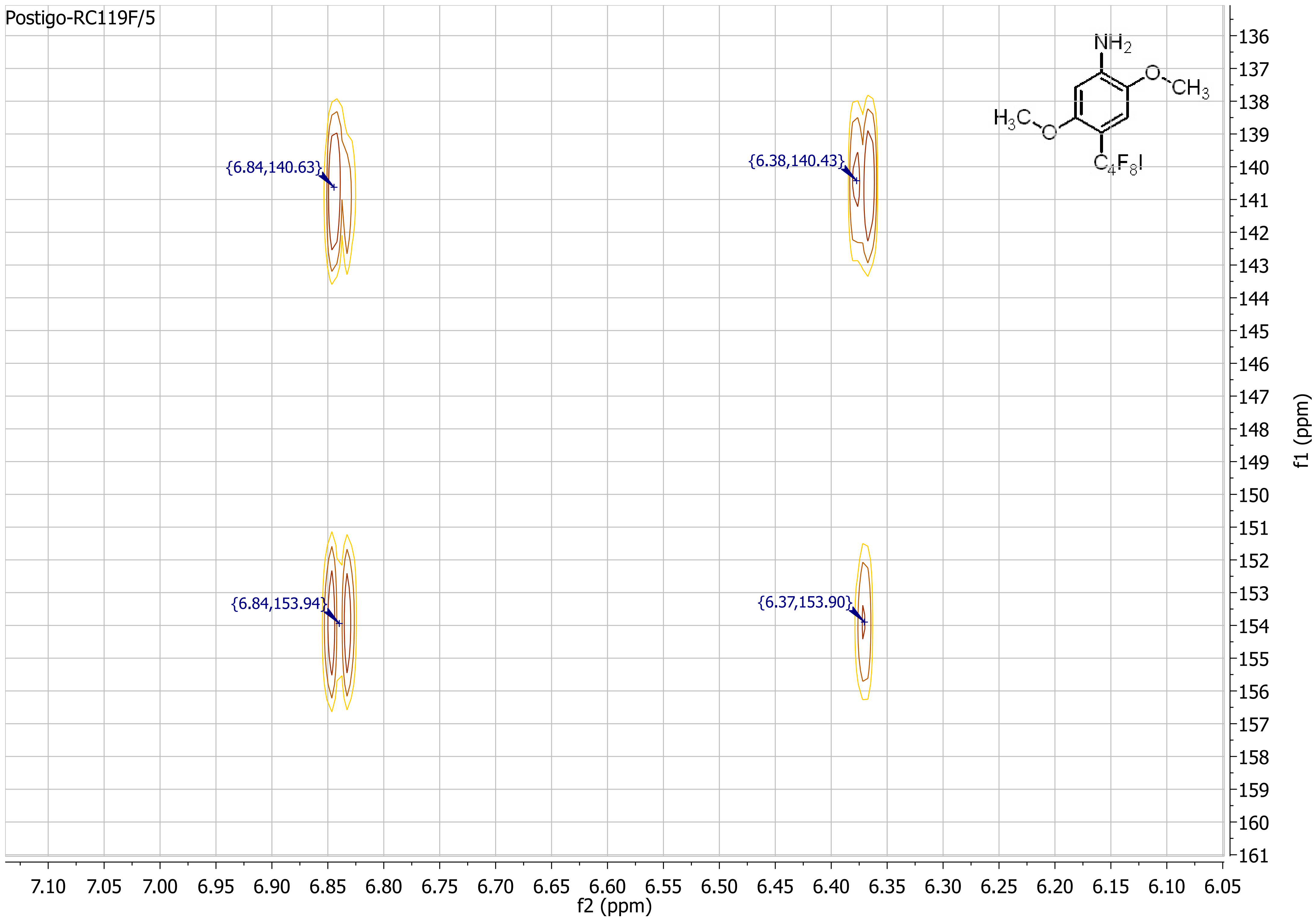
Postigo-RC119F/5
{6.37,105.02}
{6.84,104.86}
{6.84,140.63}
{6.38,140.43}
{3.85,140.43}
{6.84,153.94}
{6.37,153.90}
{3.78,153.94}
f2 (ppm)
f1 (ppm)
NH2
CH3
H3C
C4F8I

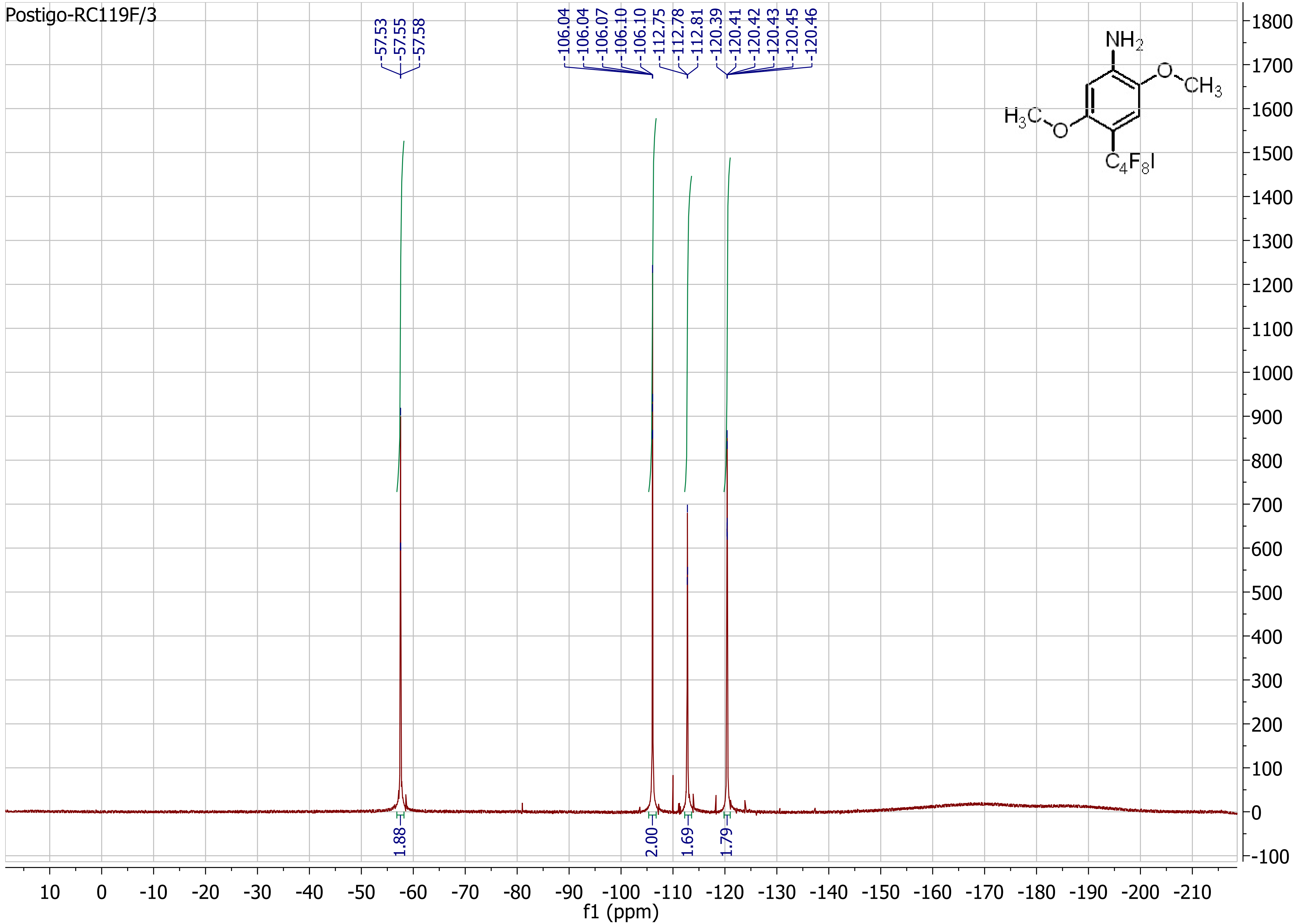


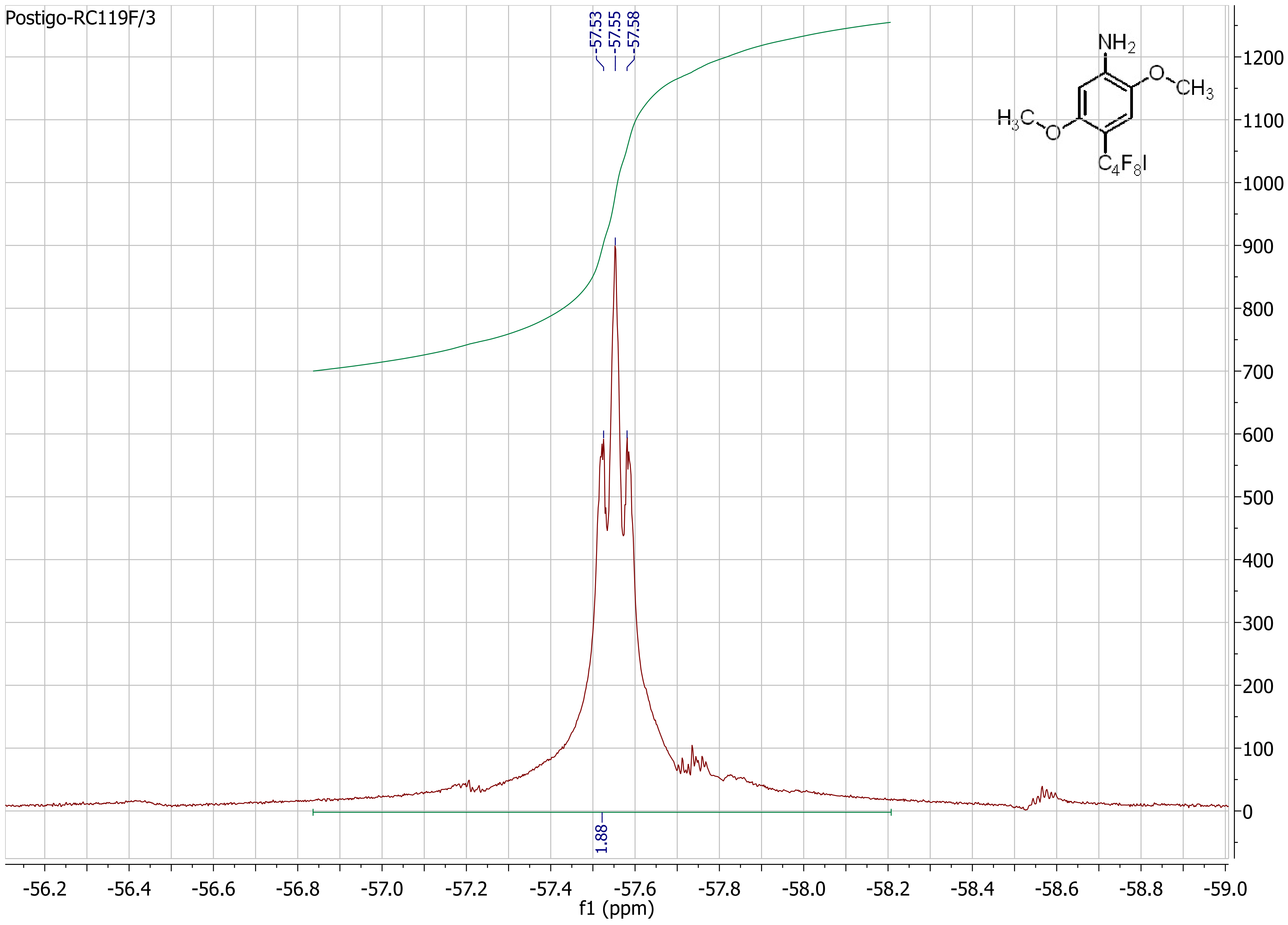
Postigo-RC119F/5
NH2
O
CH3
H3C
O
C4F8I
{6.84,104.86}
{6.37,105.02}
f2 (ppm)
f1 (ppm)



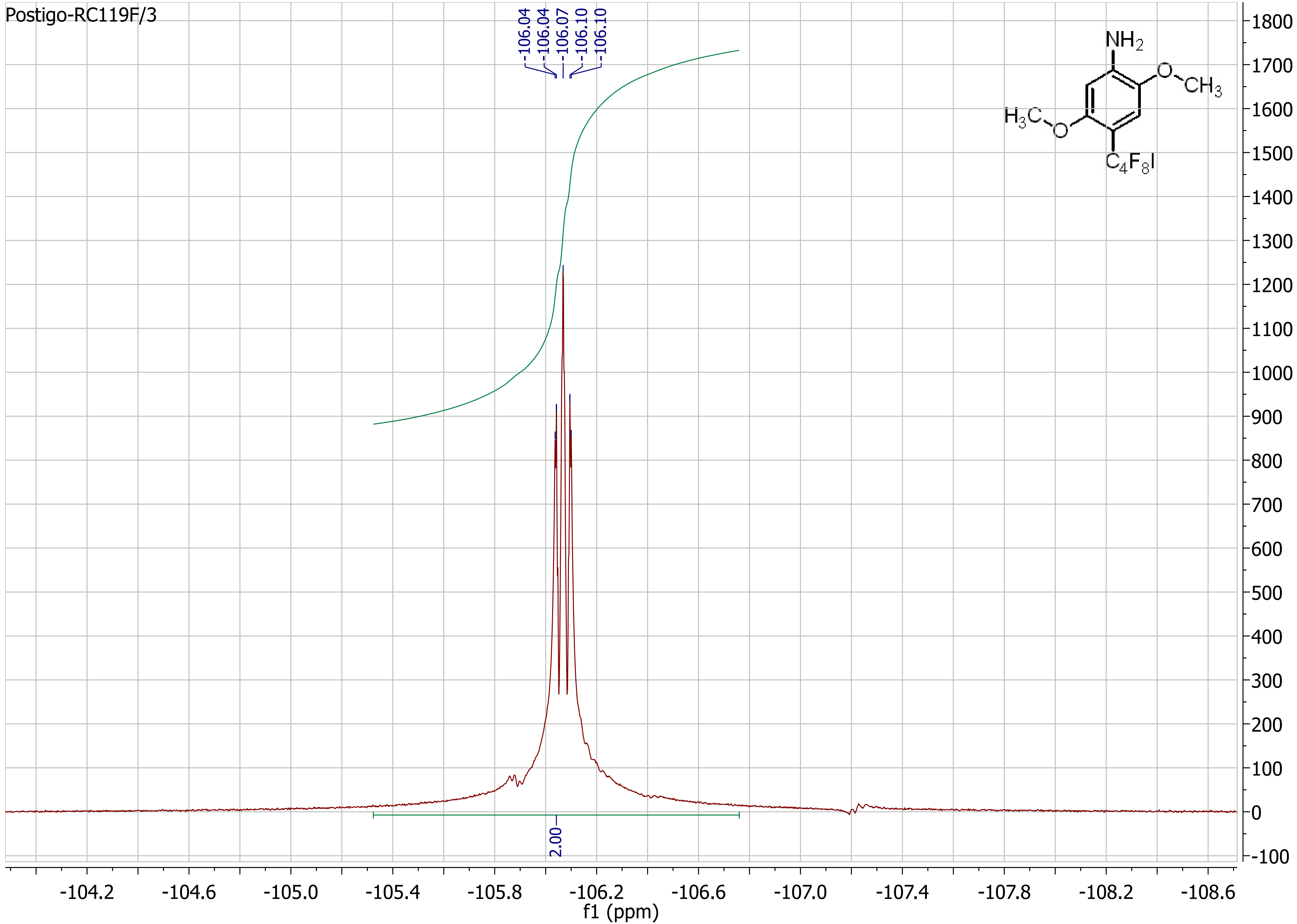
Postigo-RC119F/5
NH2
O
CH3
H3C
O
C4F8I
{3.85,140.43}
{3.78,153.94}
130
135
140
145
150
155
160
165
f1 (ppm)
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
f2 (ppm)

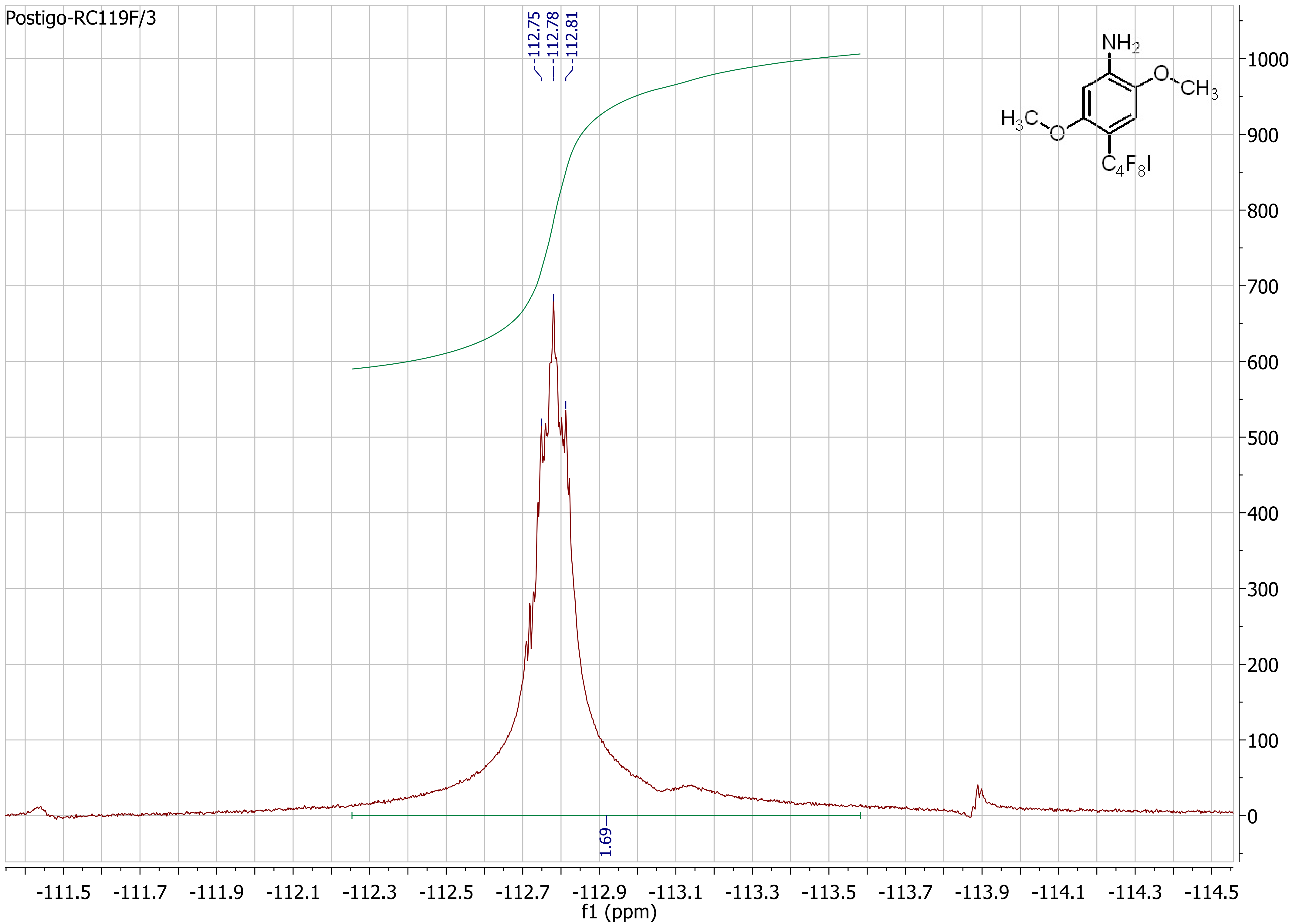

Postigo-RC119F/5
{6.84,140.63}
{6.38,140.43}
{6.84,153.94}
{6.37,153.90}
NH2
O
CH3
H3C
O
C4F8I
f2 (ppm)
f1 (ppm)


Postigo-RC119F/3
-57.53
-57.55
-57.58
-106.04
-106.04
-106.07
-106.10
-106.10
-112.75
-112.78
-112.81
-120.39
-120.41
-120.42
-120.43
-120.45
-120.46
NH2
O
CH3
H3C
O
C4F8I
1.88
2.00
1.69
1.79
f1 (ppm)

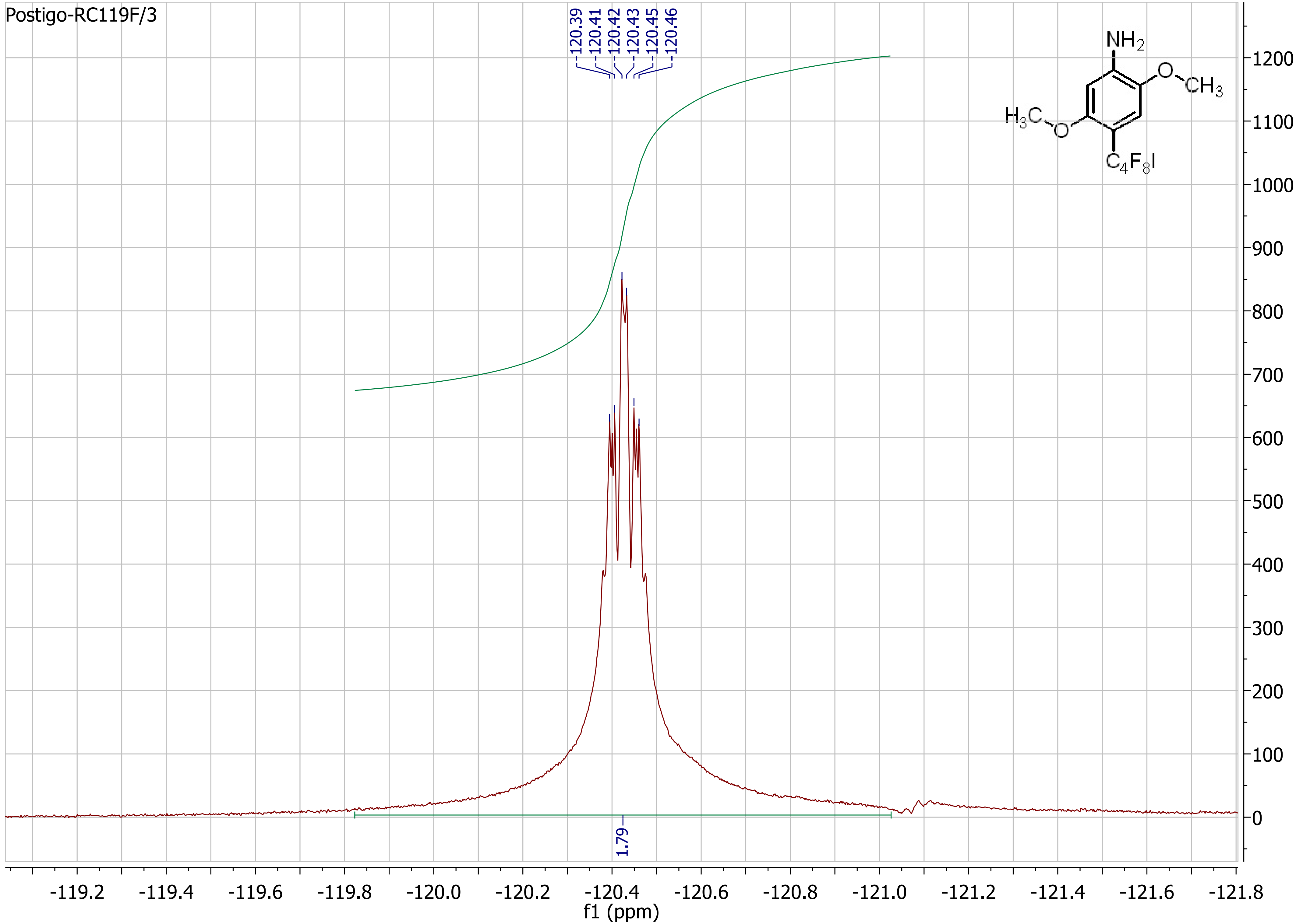


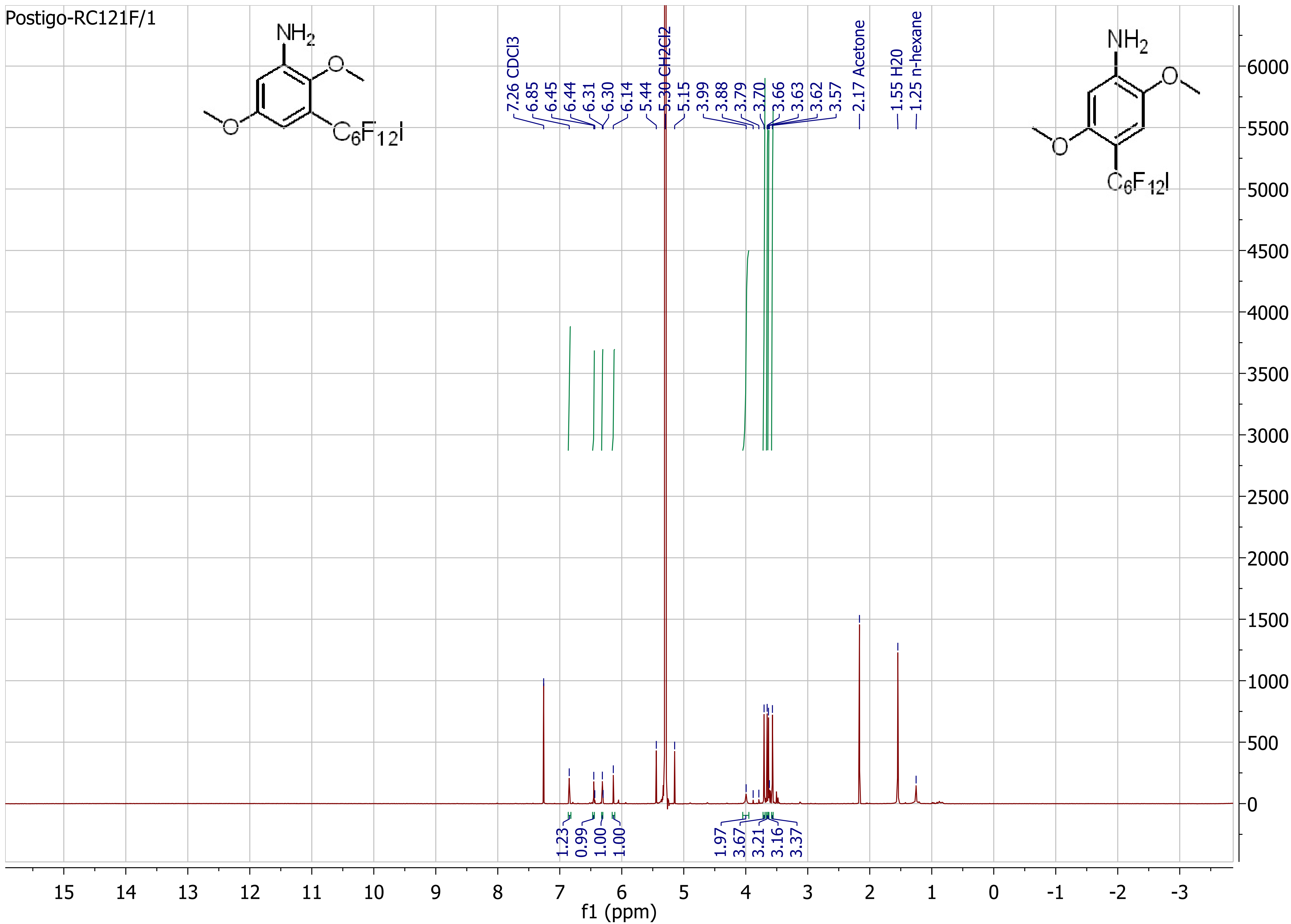
Postigo-RC119F/3
-57.53
-57.55
-57.58
NH2
O
CH3
H3C
O
C4F8I
1.88
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-56.2
-56.4
-56.6
-56.8
-57.0
-57.2
-57.4
-57.6
-57.8
-58.0
-58.2
-58.4
-58.6
-58.8
-59.0
f1 (ppm)


Postigo-RC119F/3
-106.04
-106.04
-106.07
-106.10
-106.10
2.00
NH2
O
CH3
H3C
O
C4F8I
f1 (ppm)
-104.2
-104.6
-105.0
-105.4
-105.8
-106.2
-106.6
-107.0
-107.4
-107.8
-108.2
-108.6
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100

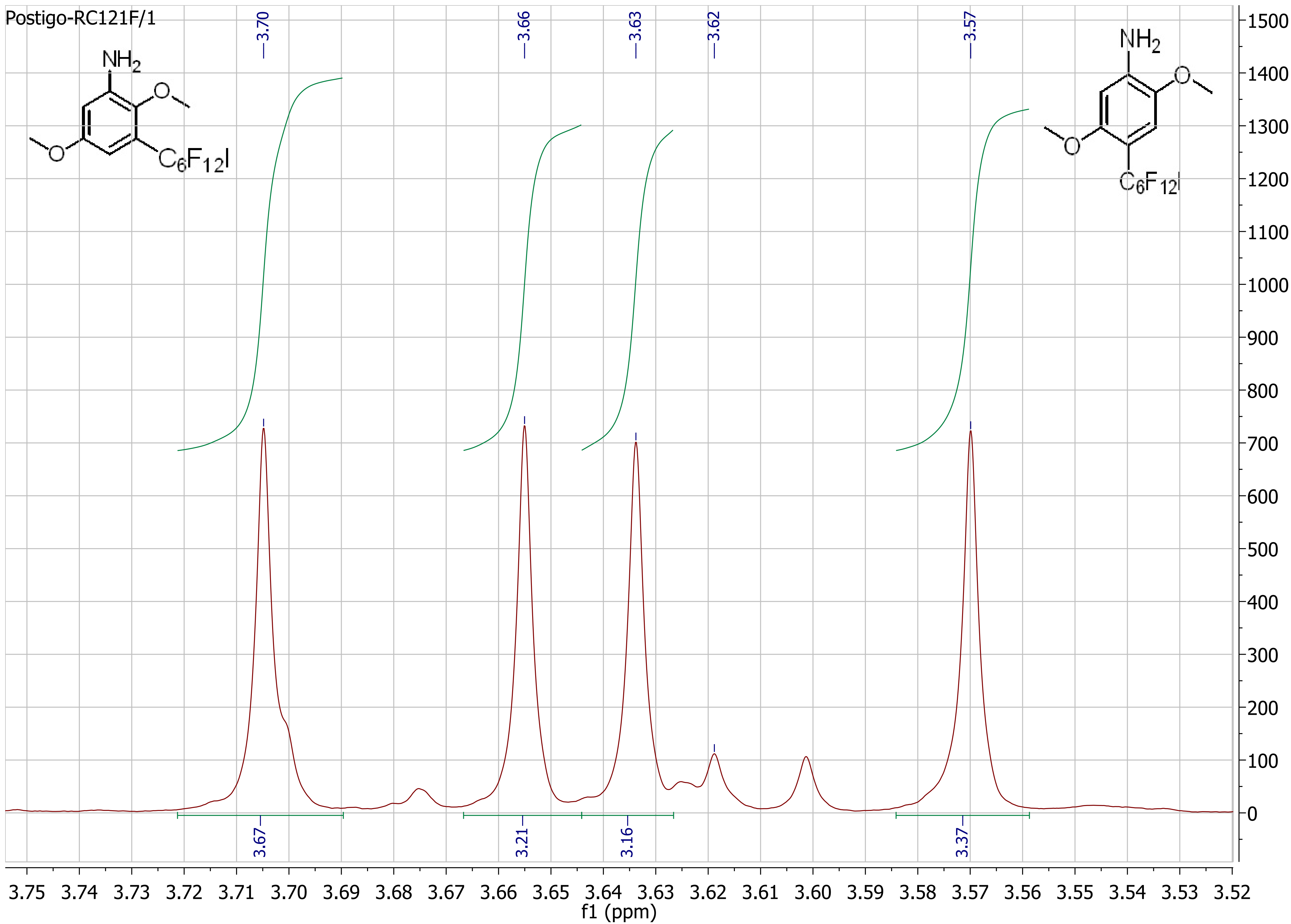


Postigo-RC119F/3
-112.75
-112.78
-112.81
NH2
O
CH3
H3C
O
C4F8I
1.69
-111.5
-111.7
-111.9
-112.1
-112.3
-112.5
-112.7
-112.9
-113.1
-113.3
-113.5
-113.7
-113.9
-114.1
-114.3
-114.5
f1 (ppm)
1000
900
800
700
600
500
400
300
200
100
0

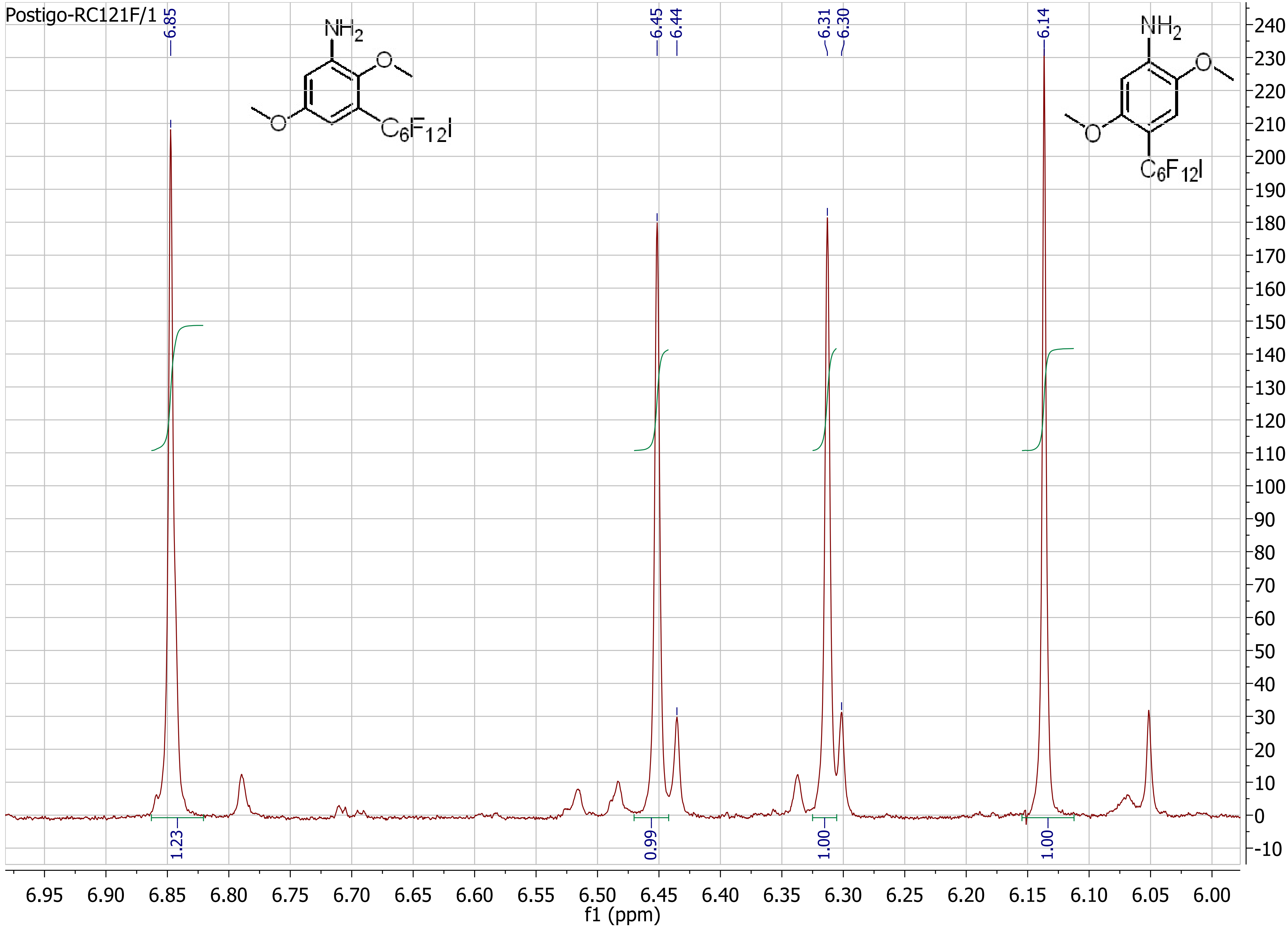

Postigo-RC119F/3
-120.39
-120.41
-120.42
-120.43
-120.45
-120.46
NH2
O
CH3
H3C
O
C4F8I
1.79
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-119.2
-119.4
-119.6
-119.8
-120.0
-120.2
-120.4
-120.6
-120.8
-121.0
-121.2
-121.4
-121.6
-121.8
f1 (ppm)



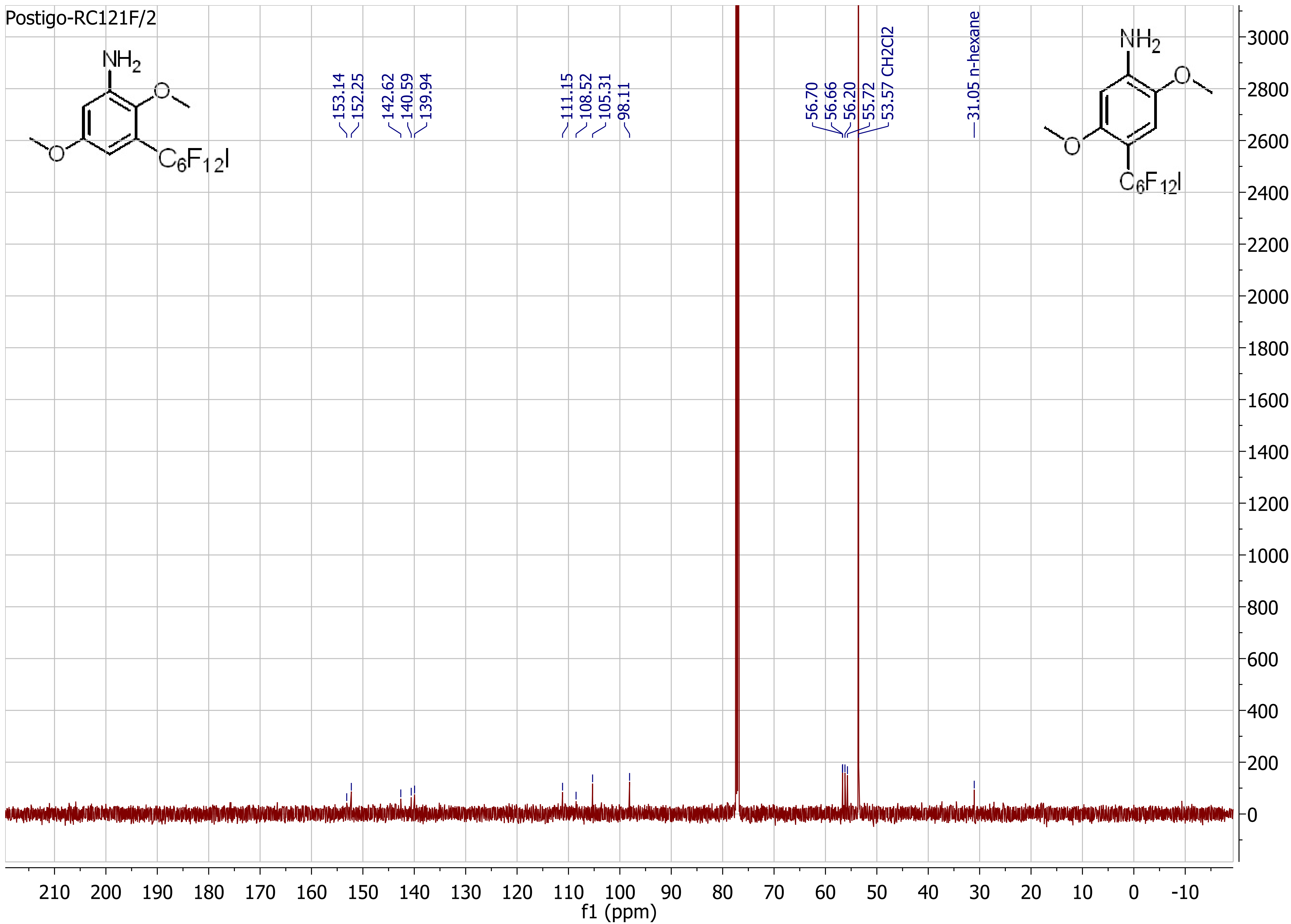
Postigo-RC121F/1
NH2
O
C6F12I
7.26 CDCl3
6.85
6.45
6.44
6.31
6.30
6.14
5.44
5.30 CH2Cl2
5.15
3.99
3.88
3.79
3.70
3.66
3.63
3.62
3.57
2.17 Acetone
1.55 H2O
1.25 n-hexane
1.23
0.99
1.00
1.00
1.97
3.67
3.21
3.16
3.37
f1 (ppm)

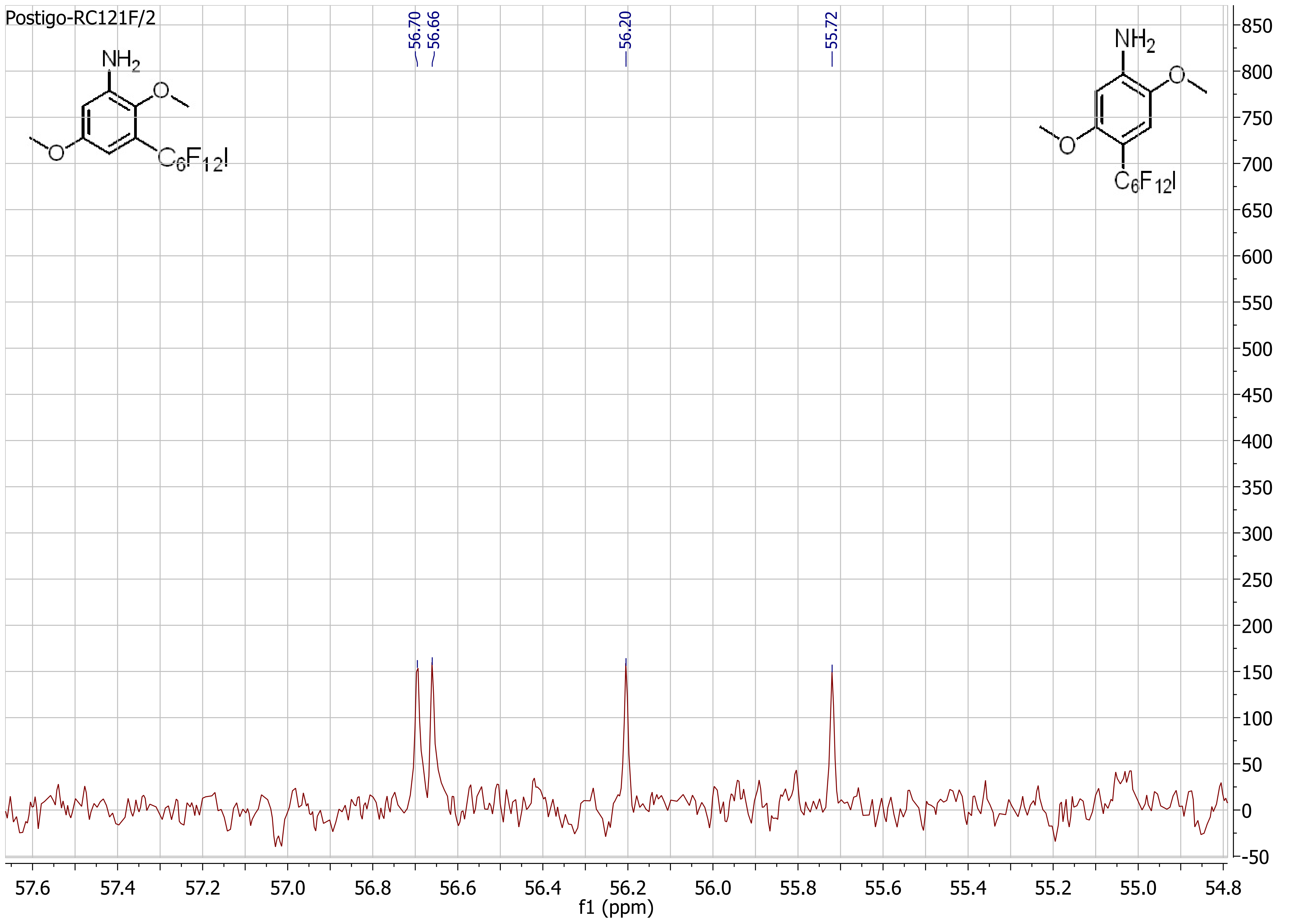


Postigo-RC121F/1
3.70
3.66
3.63
3.62
3.57
NH2
C6F12I
3.67
3.21
3.16
3.37
f1 (ppm)

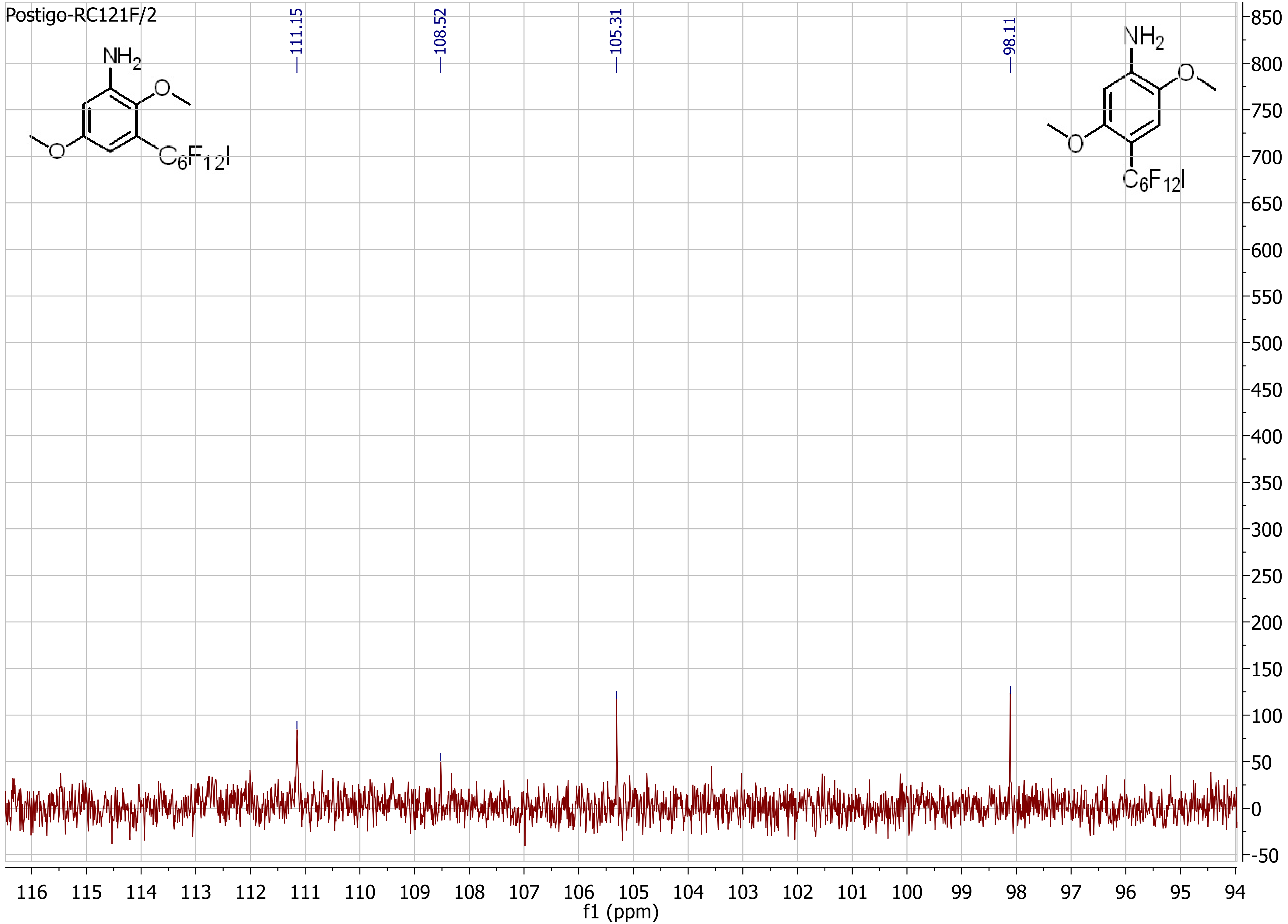


Postigo-RC121F/1
6.85
6.45
6.44
6.31
6.30
6.14
NH2
C6F12I
1.23
0.99
1.00
1.00
f1 (ppm)

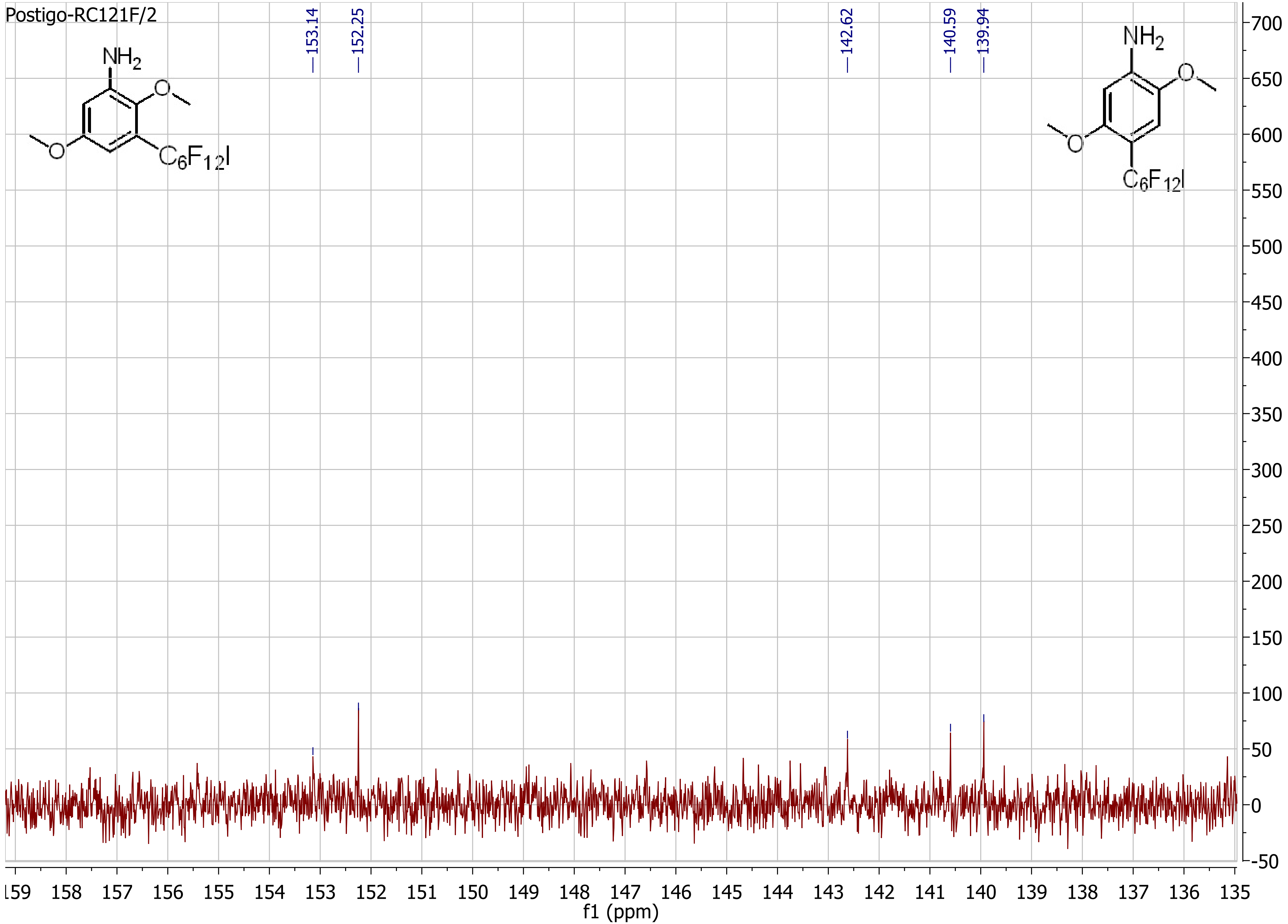

Postigo-RC121F/2
NH2
O
O
C6F12I
153.14
152.25
142.62
140.59
139.94
111.15
108.52
105.31
98.11
56.70
56.66
56.20
55.72
53.57 CH2Cl2
31.05 n-hexane
NH2
O
O
C6F12I
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)



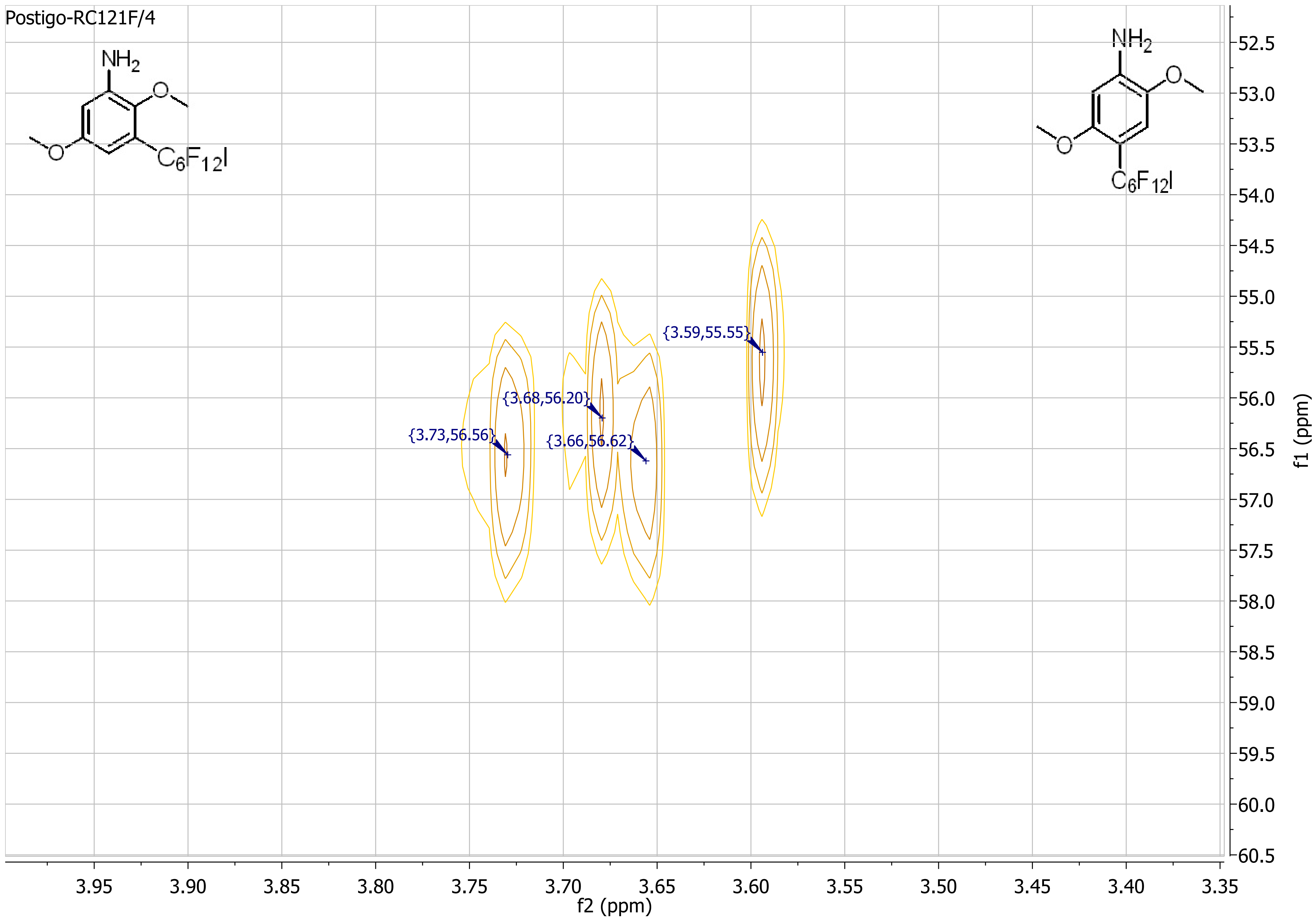
Postigo-RC121F/2
NH_2
$C_6F_{12}I$
56.70
56.66
56.20
55.72
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
57.6
57.4
57.2
57.0
56.8
56.6
56.4
56.2
56.0
55.8
55.6
55.4
55.2
55.0
54.8
f1 (ppm)



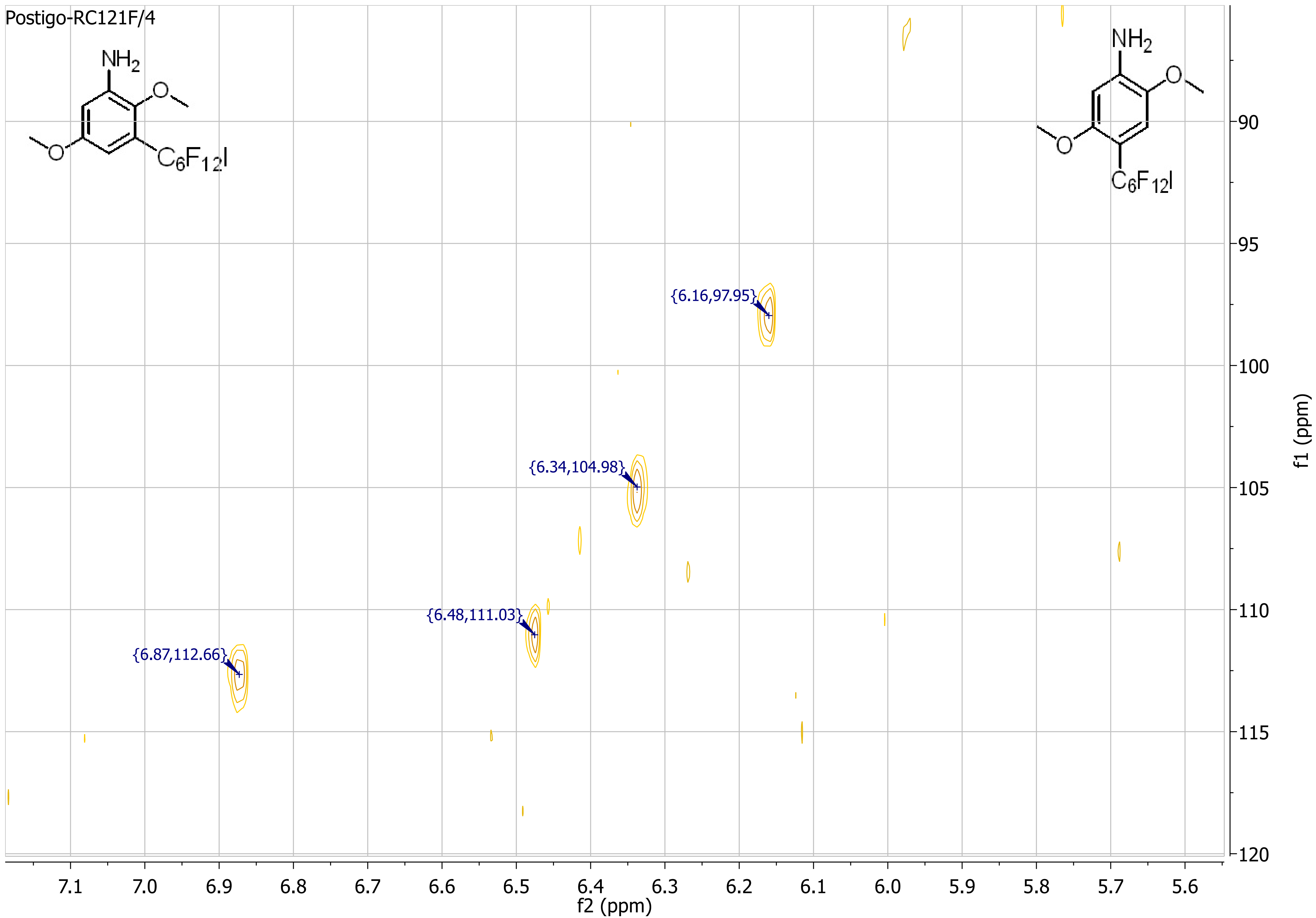
Postigo-RC121F/2
111.15
108.52
105.31
98.11
NH2
O
C6F12I
f1 (ppm)

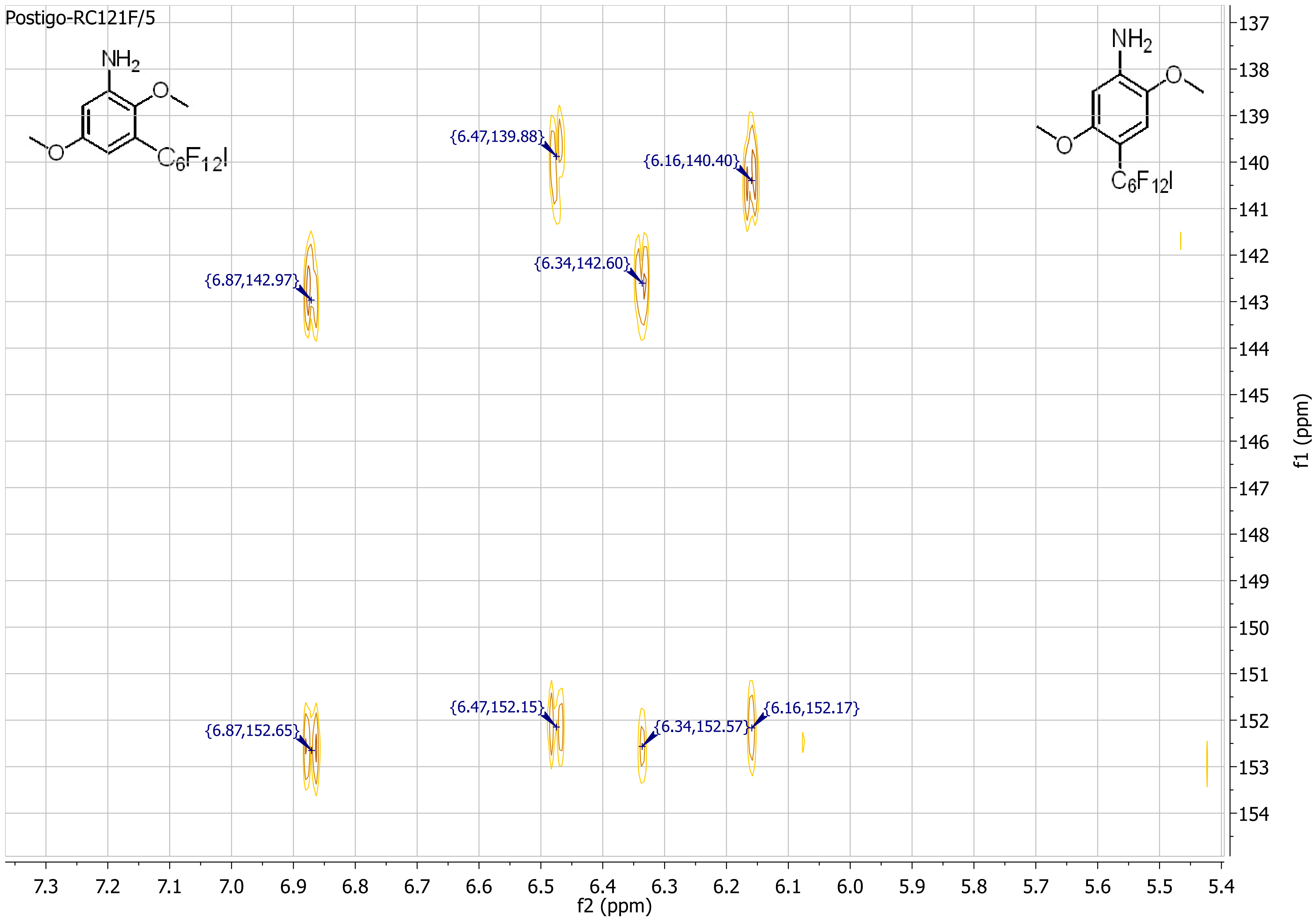


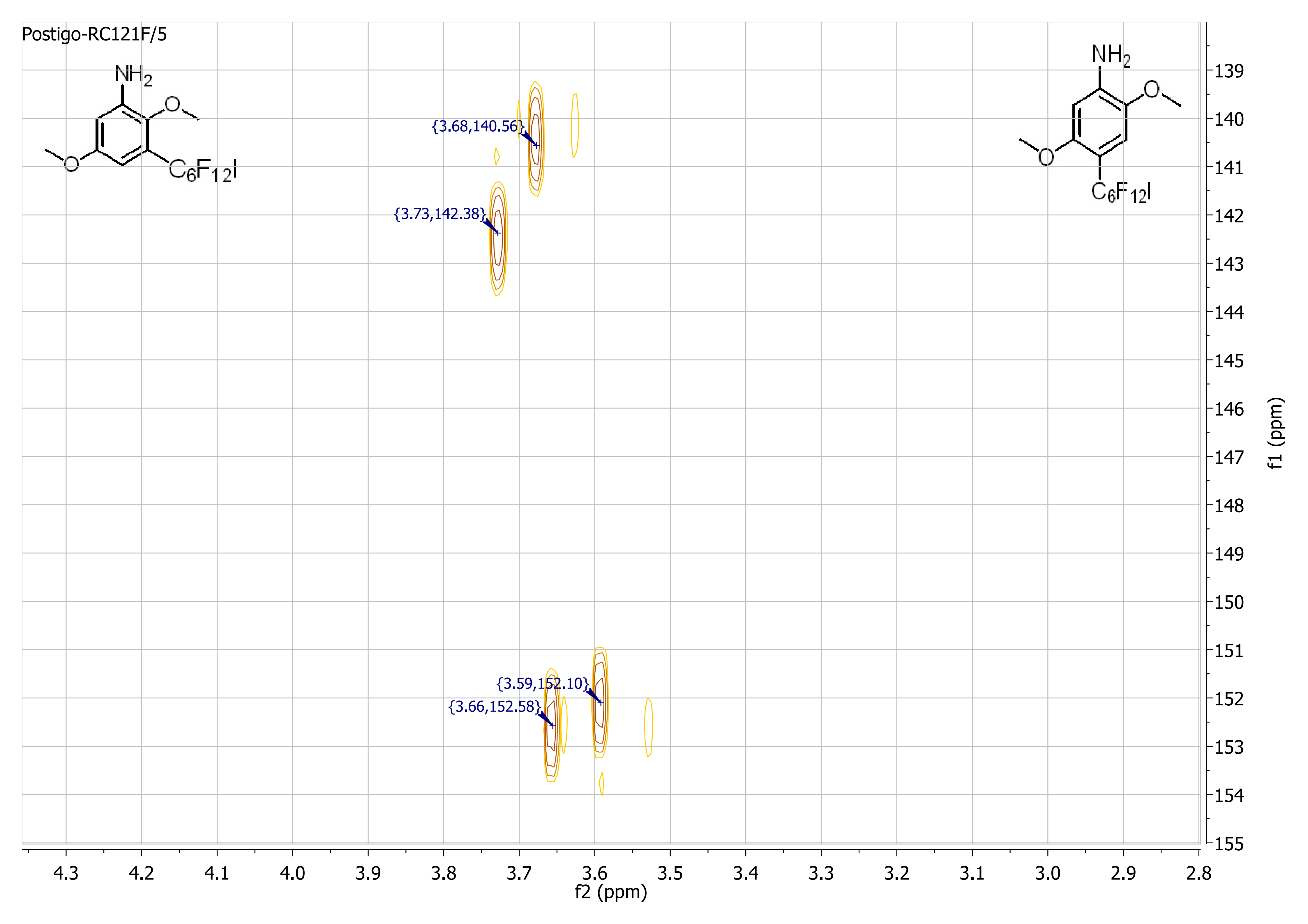
Postigo-RC121F/2
153.14
152.25
142.62
140.59
139.94
NH2
O
C6F12I
f1 (ppm)



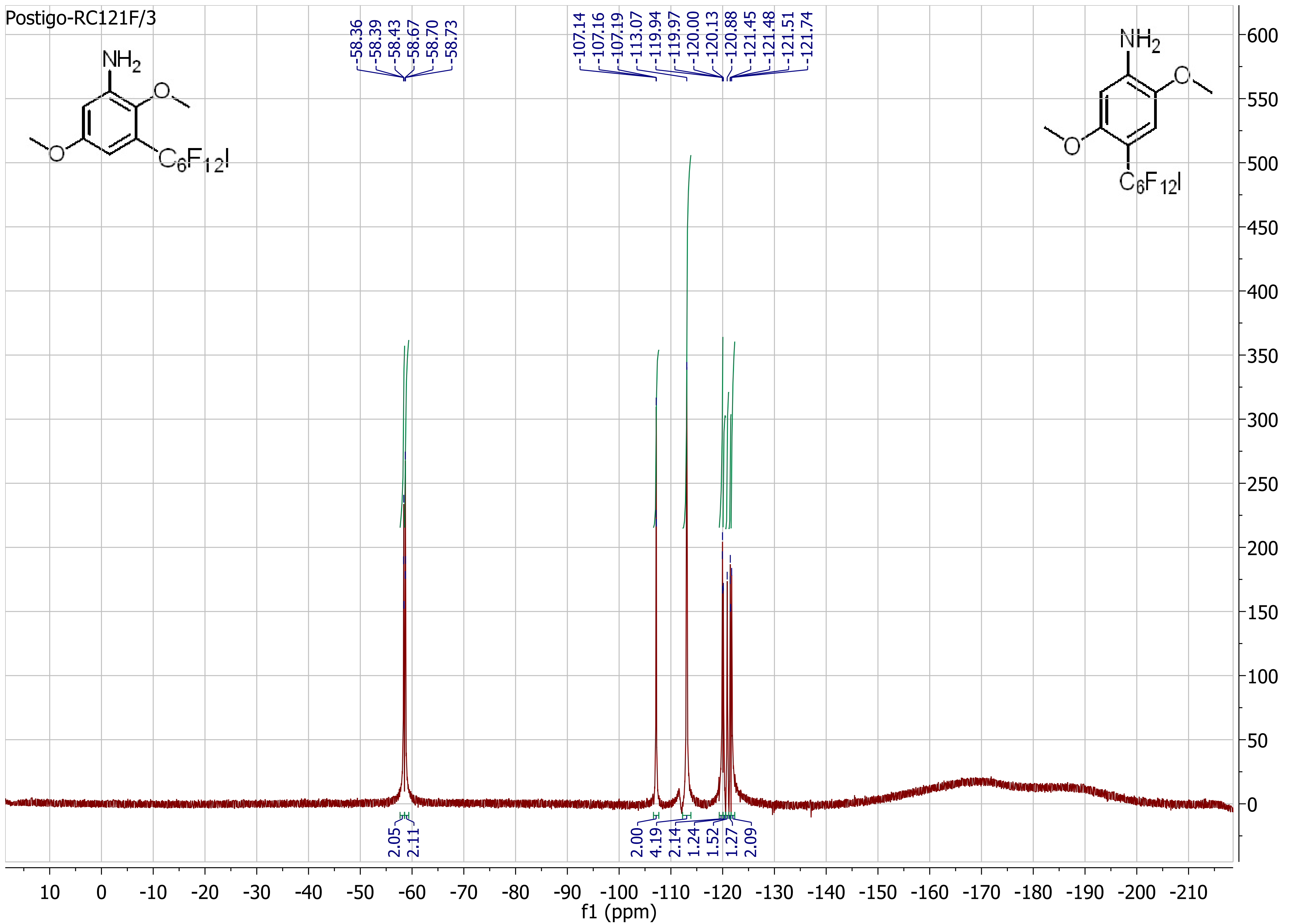
Postigo-RC121F/4
NH2
O
C6F12I
{3.73,56.56}
{3.68,56.20}
{3.66,56.62}
{3.59,55.55}
f2 (ppm)
f1 (ppm)


Postigo-RC121F/4
NH2
O
O
C6F12I
{6.16,97.95}
{6.34,104.98}
{6.48,111.03}
{6.87,112.66}
f2 (ppm)
f1 (ppm)

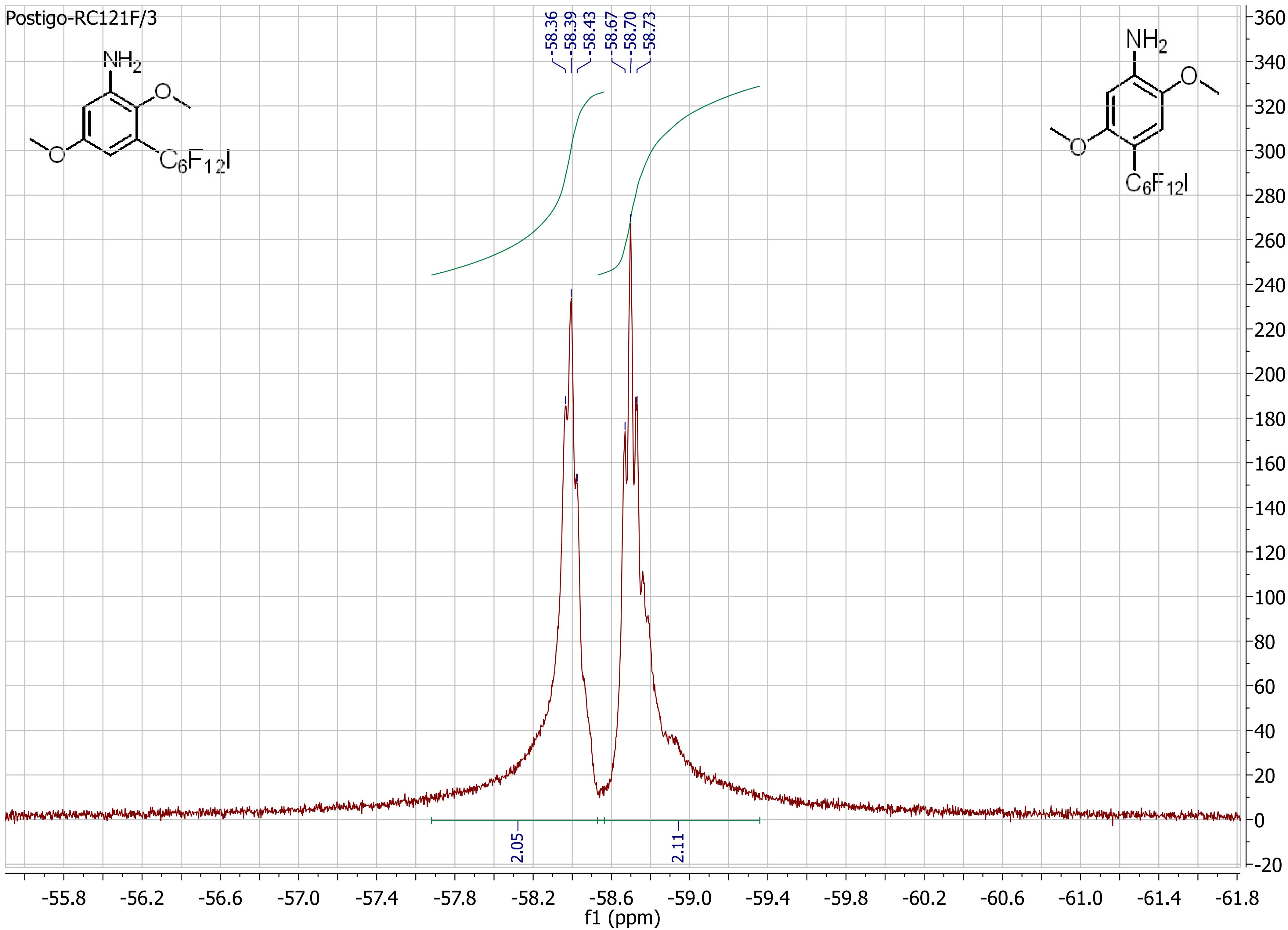

Postigo-RC121F/5
NH2
O
O
C6F12I
{6.47,139.88}
{6.16,140.40}
{6.87,142.97}
{6.34,142.60}
{6.87,152.65}
{6.47,152.15}
{6.34,152.57}
{6.16,152.17}
f2 (ppm)
f1 (ppm)

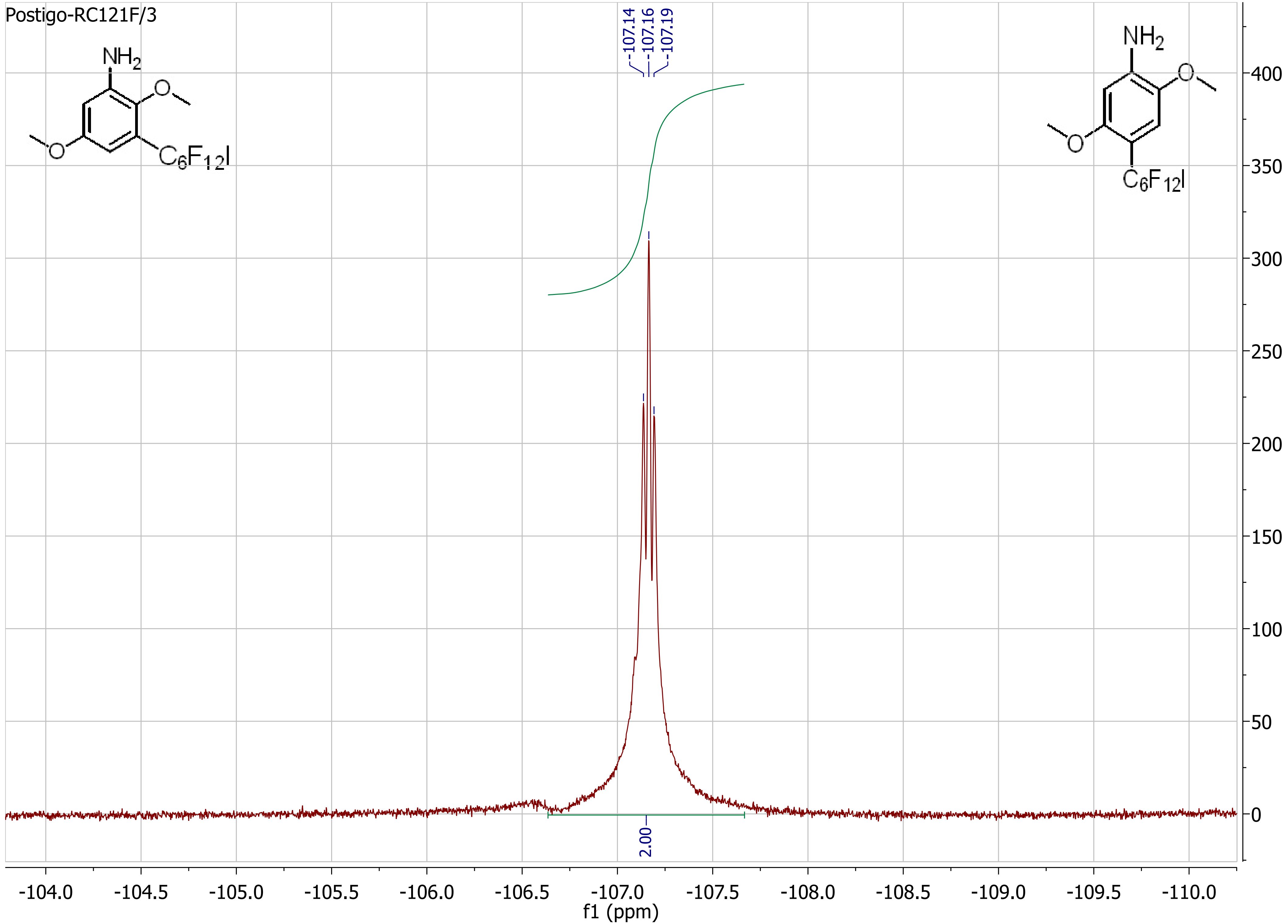


Postigo-RC121F/5
NH2
O
O
C6F12I
{3.68,140.56}
{3.73,142.38}
{3.59,152.10}
{3.66,152.58}
f2 (ppm)
f1 (ppm)
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155

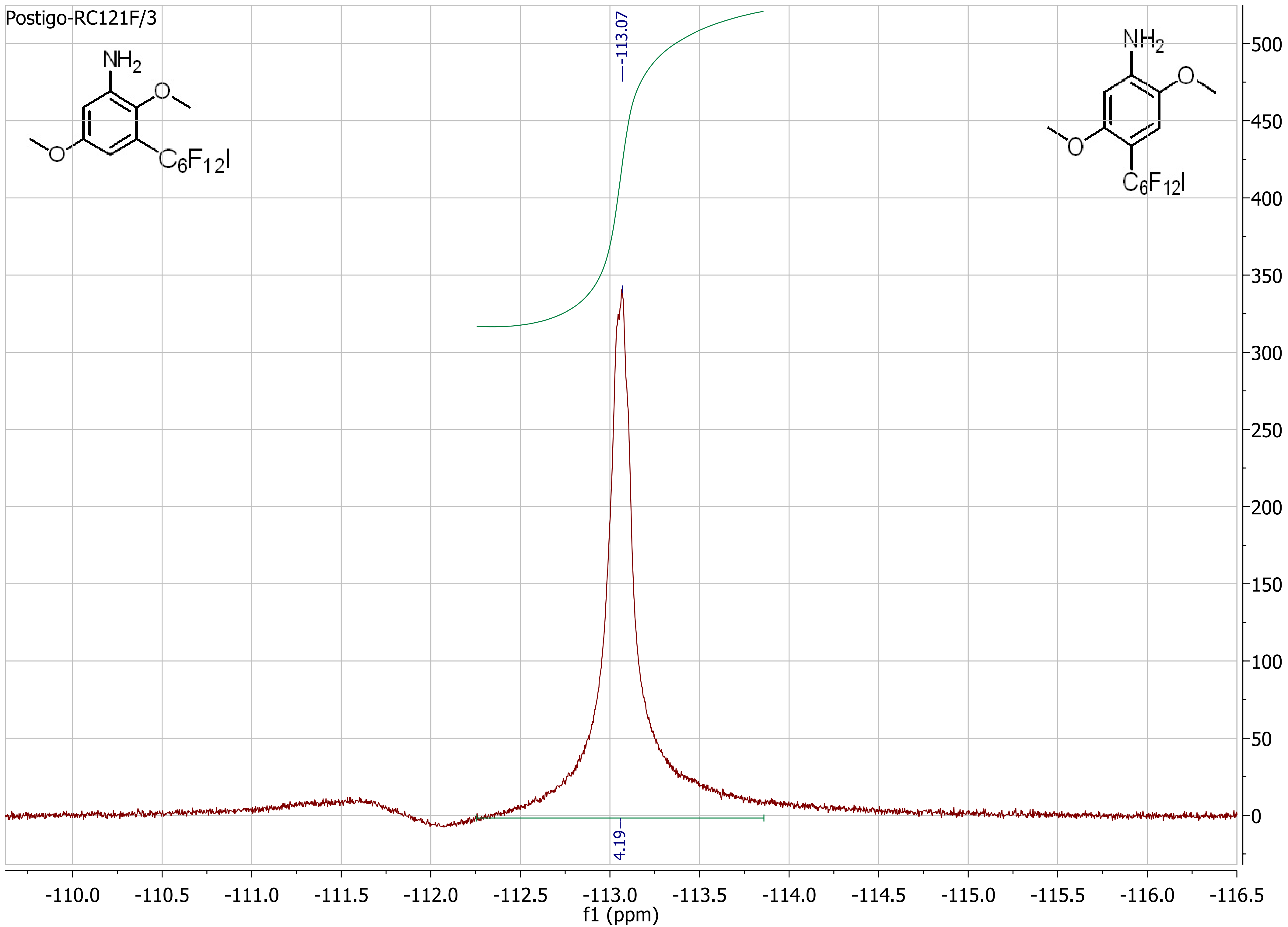


Postigo-RC121F/3
NH2
O
O
C6F12I
-58.36
-58.39
-58.43
-58.67
-58.70
-58.73
-107.14
-107.16
-107.19
-113.07
-119.94
-119.97
-120.00
-120.13
-120.88
-121.45
-121.48
-121.51
-121.74
2.05
2.11
2.00
4.19
2.14
1.24
1.52
1.27
2.09
f1 (ppm)

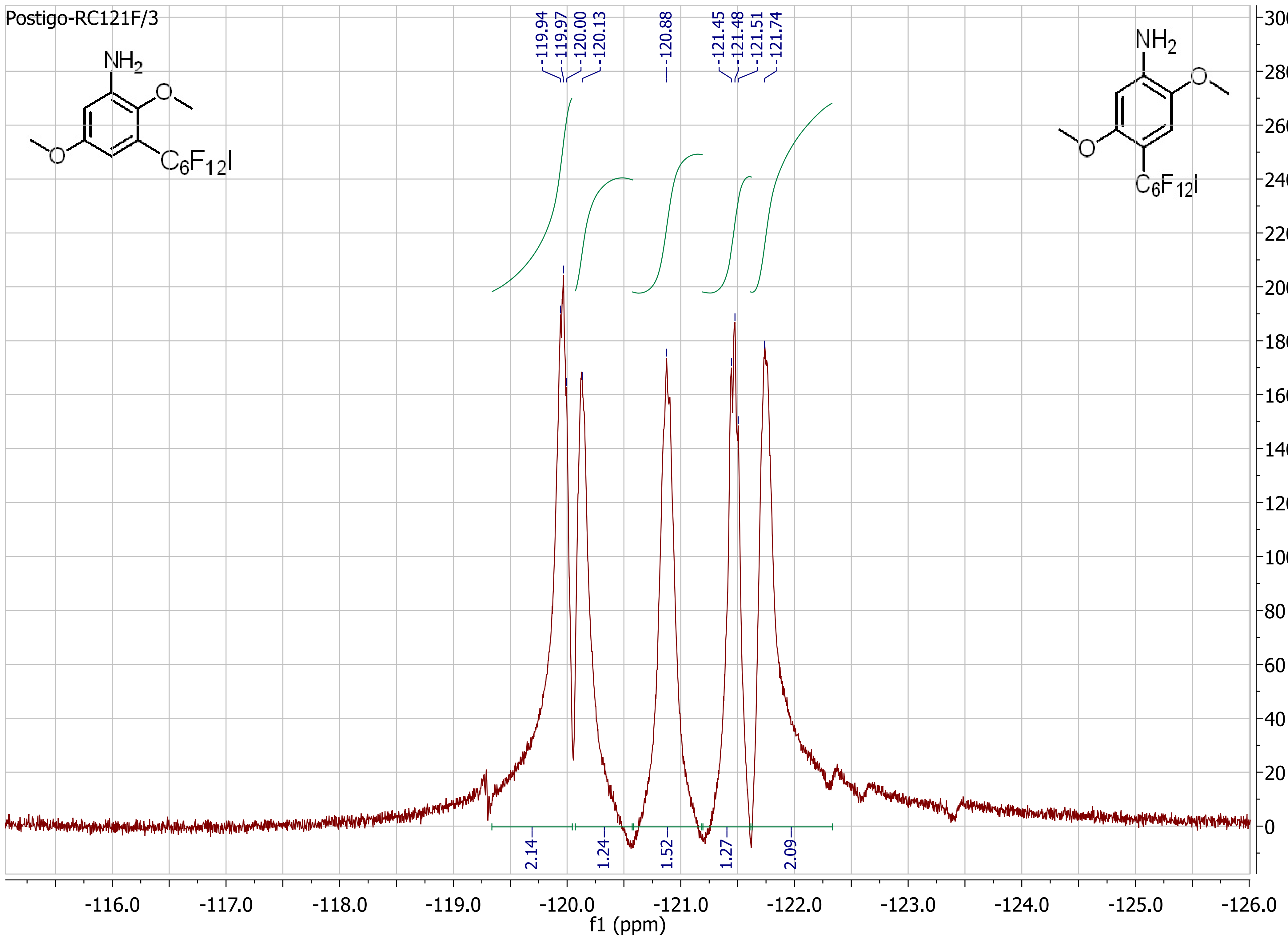

Postigo-RC121F/3
NH2
O
O
C6F12I
NH2
O
O
C6F12I
-58.36
-58.39
-58.43
-58.67
-58.70
-58.73
2.05
2.11
f1 (ppm)



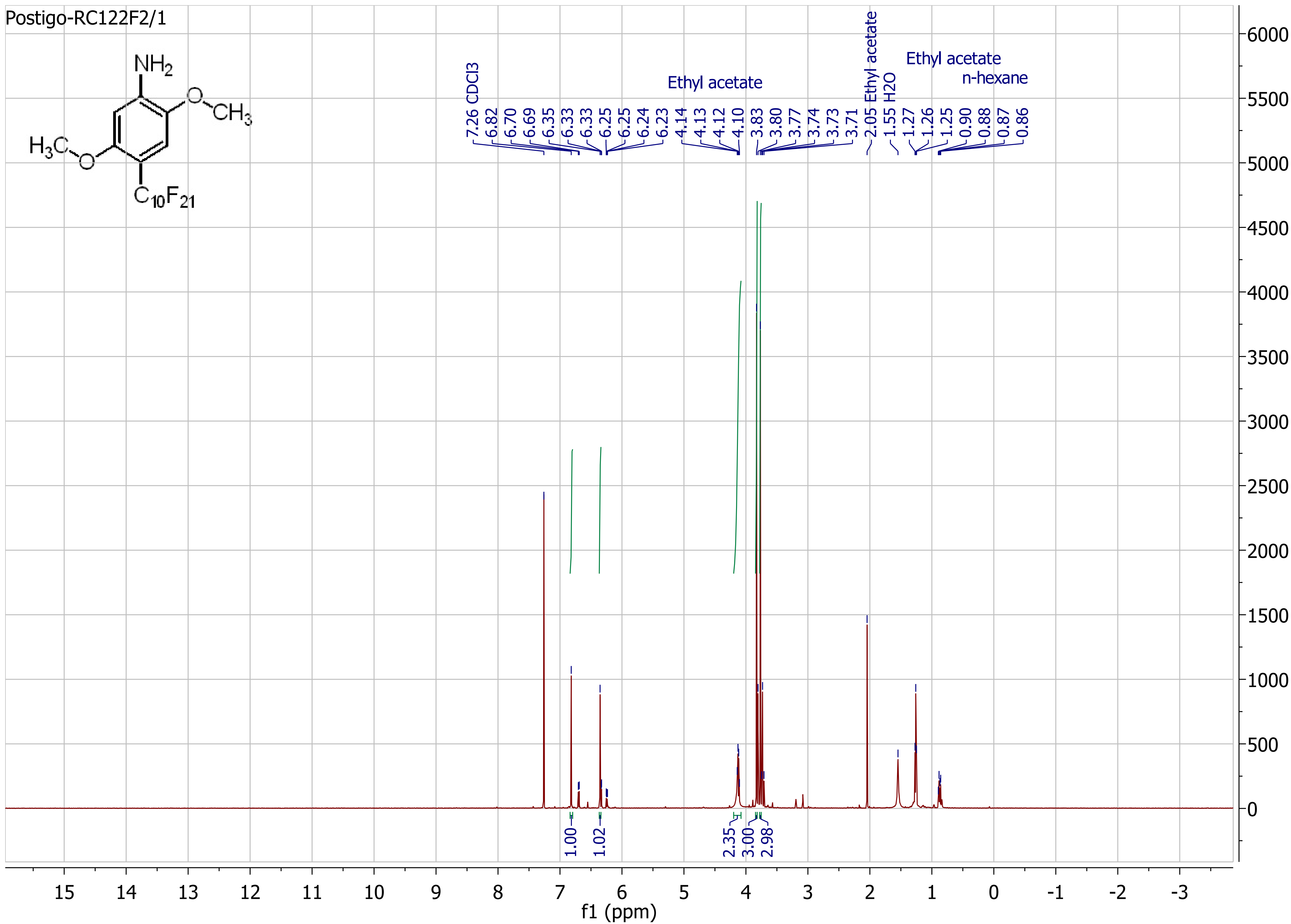
Postigo-RC121F/3
NH2
O
O
C6F12I
-107.14
-107.16
-107.19
2.00
f1 (ppm)

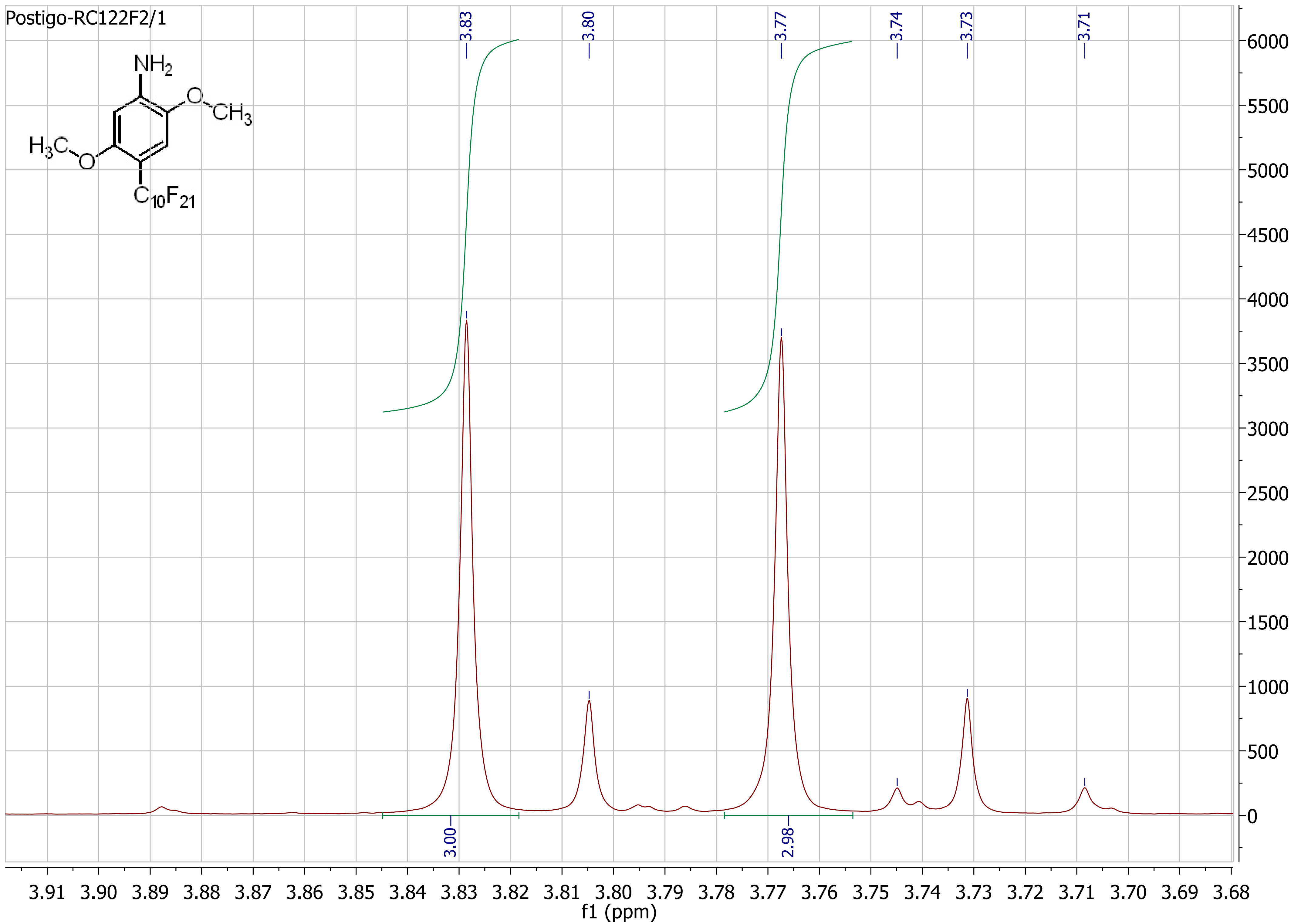


Postigo-RC121F/3
NH2
O
C6F12I
NH2
O
O
C6F12I
-113.07
4.19
500
450
400
350
300
250
200
150
100
50
0
-110.0
-110.5
-111.0
-111.5
-112.0
-112.5
-113.0
-113.5
-114.0
-114.5
-115.0
-115.5
-116.0
-116.5
f1 (ppm)

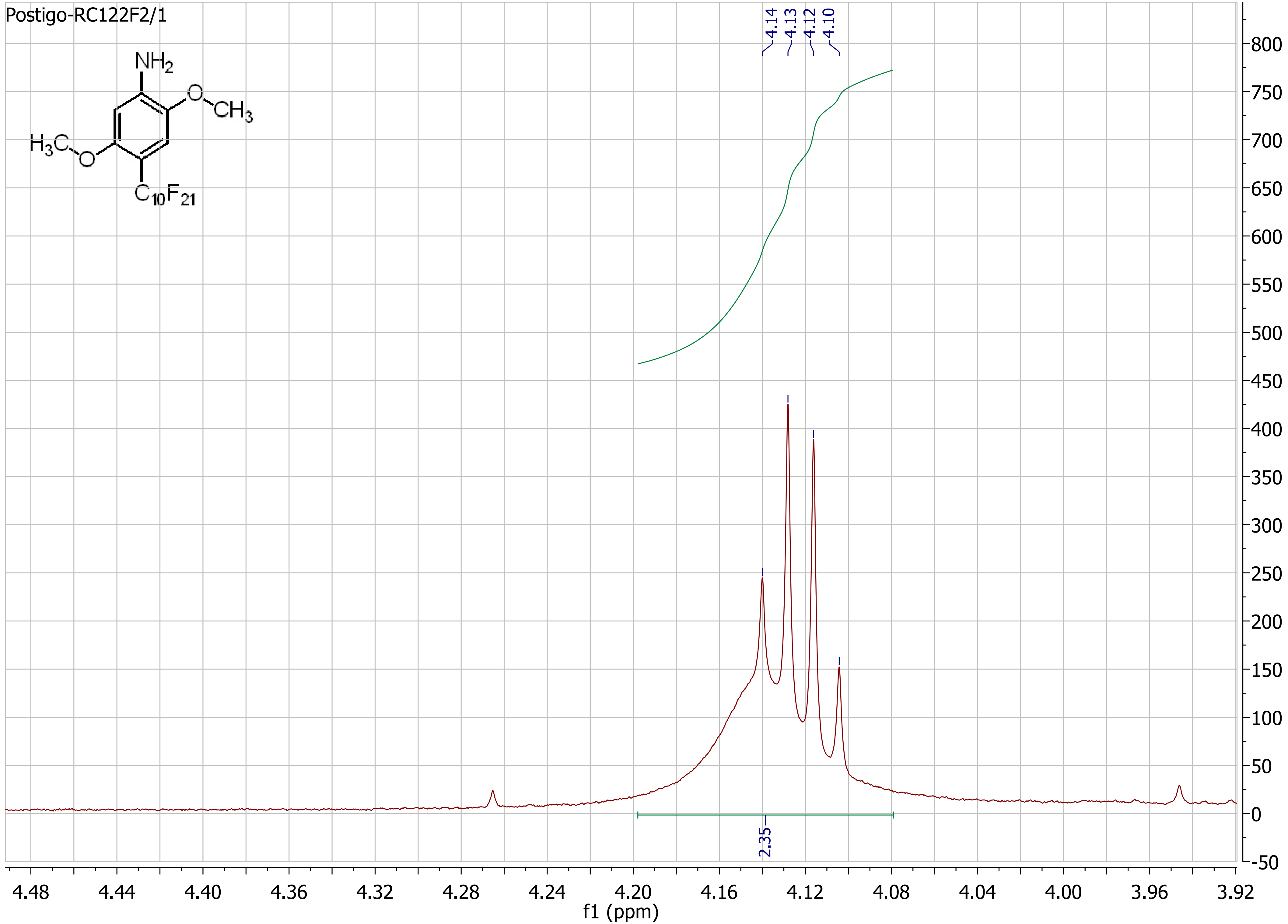


Postigo-RC121F/3
NH2
C6F12I
-119.94
-119.97
-120.00
-120.13
-120.88
-121.45
-121.48
-121.51
-121.74
2.14
1.24
1.52
1.27
2.09
f1 (ppm)

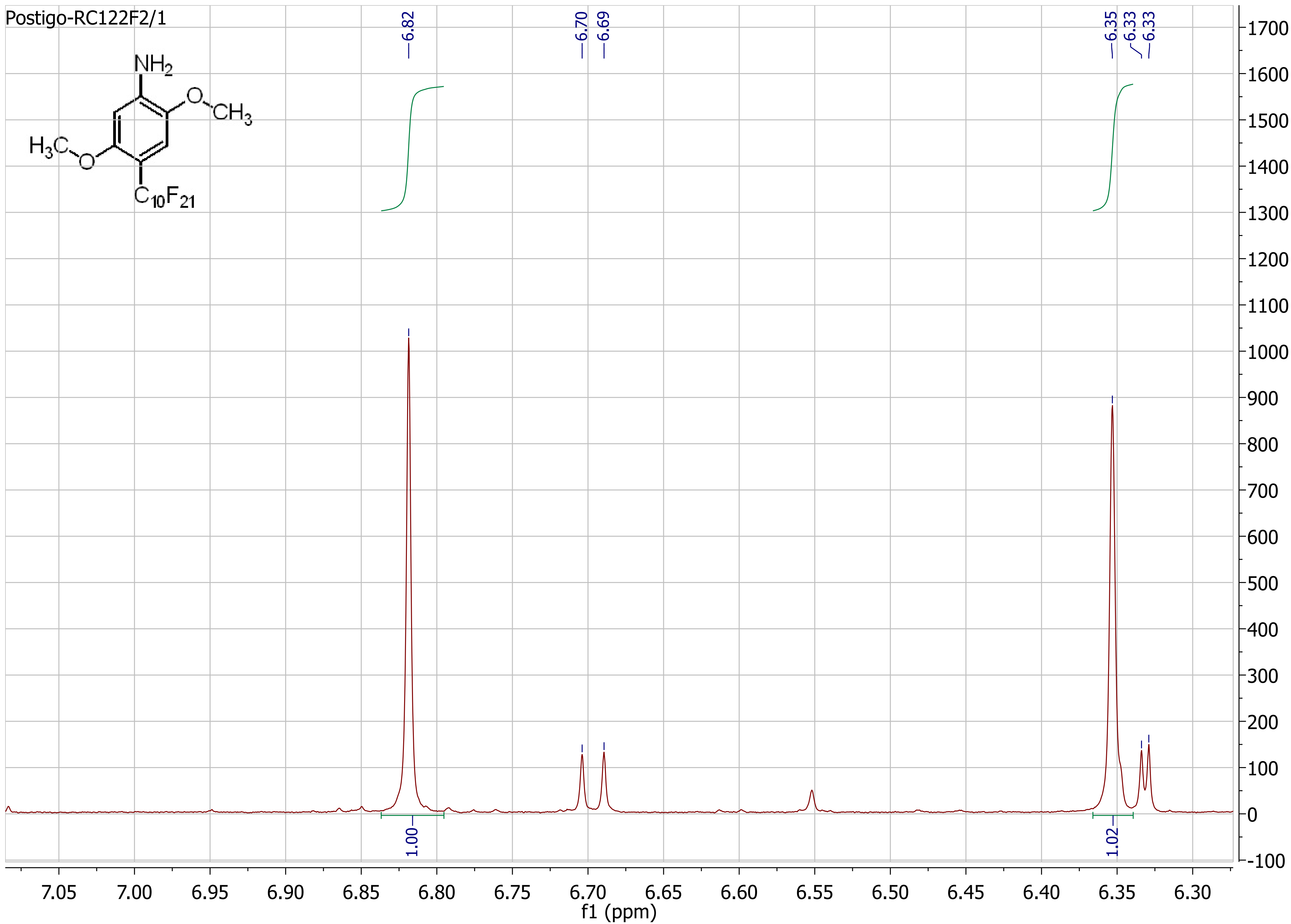

Postigo-RC122F2/1
NH2
O
CH3
H3C
O
C10F21
7.26 CDCl3
6.82
6.70
6.69
6.35
6.33
6.33
6.25
6.25
6.24
6.23
4.14
4.13
4.12
4.10
3.83
3.80
3.77
3.74
3.73
3.71
2.05 Ethyl acetate
1.55 H2O
1.27
1.26
1.25
0.90
0.88
0.87
0.86
Ethyl acetate
Ethyl acetate
n-hexane
1.00
1.02
2.35
3.00
2.98
f1 (ppm)



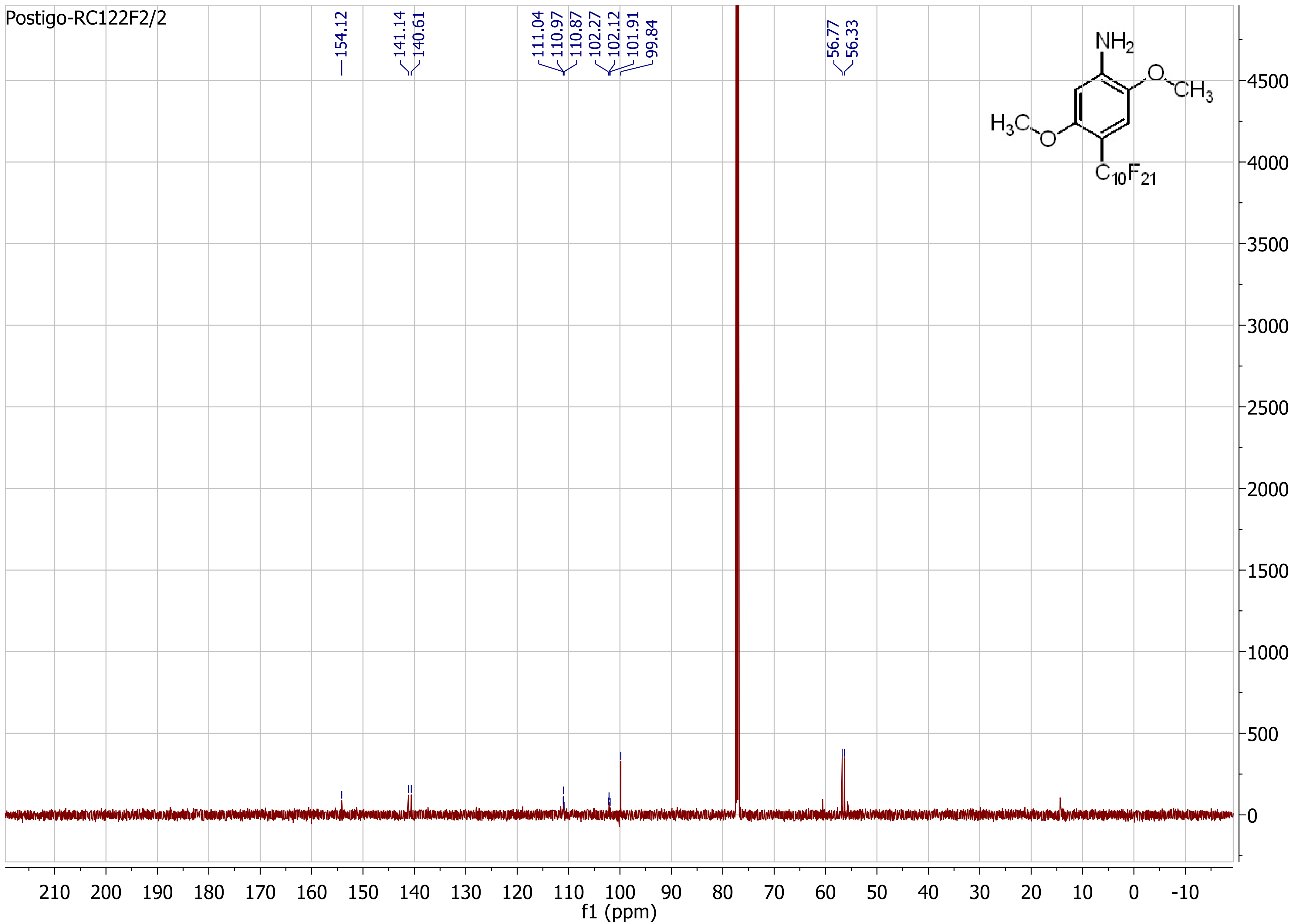
Postigo-RC122F2/1
NH2
O
CH3
H3C
O
C10F21
3.83
3.80
3.77
3.74
3.73
3.71
3.00
2.98
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
3.91 3.90 3.89 3.88 3.87 3.86 3.85 3.84 3.83 3.82 3.81 3.80 3.79 3.78 3.77 3.76 3.75 3.74 3.73 3.72 3.71 3.70 3.69 3.68
f1 (ppm)

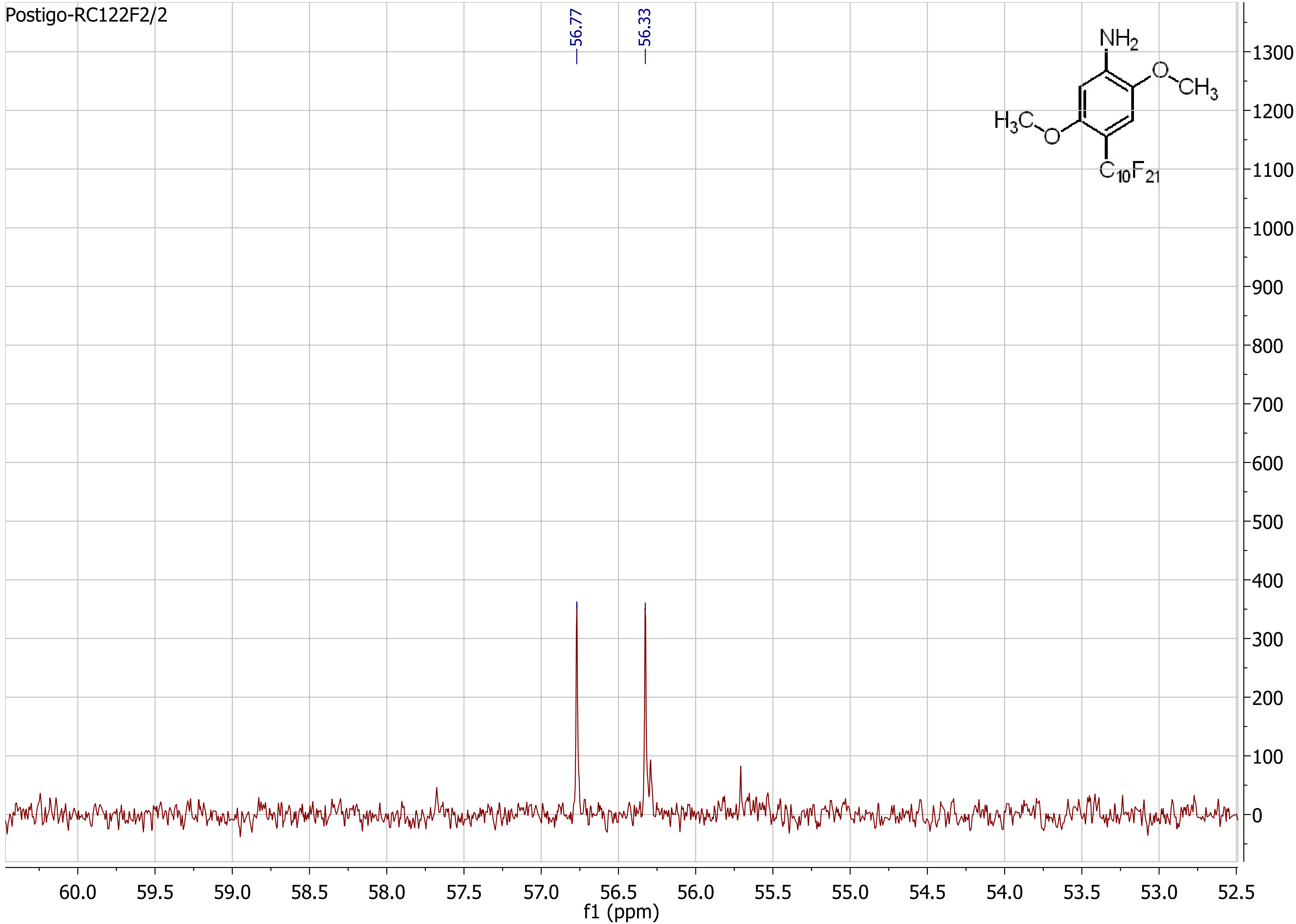


Postigo-RC122F2/1
NH2
O
CH3
H3C
O
C10F21
4.14
4.13
4.12
4.10
2.35
4.48
4.44
4.40
4.36
4.32
4.28
4.24
4.20
4.16
4.12
4.08
4.04
4.00
3.96
3.92
f1 (ppm)
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50

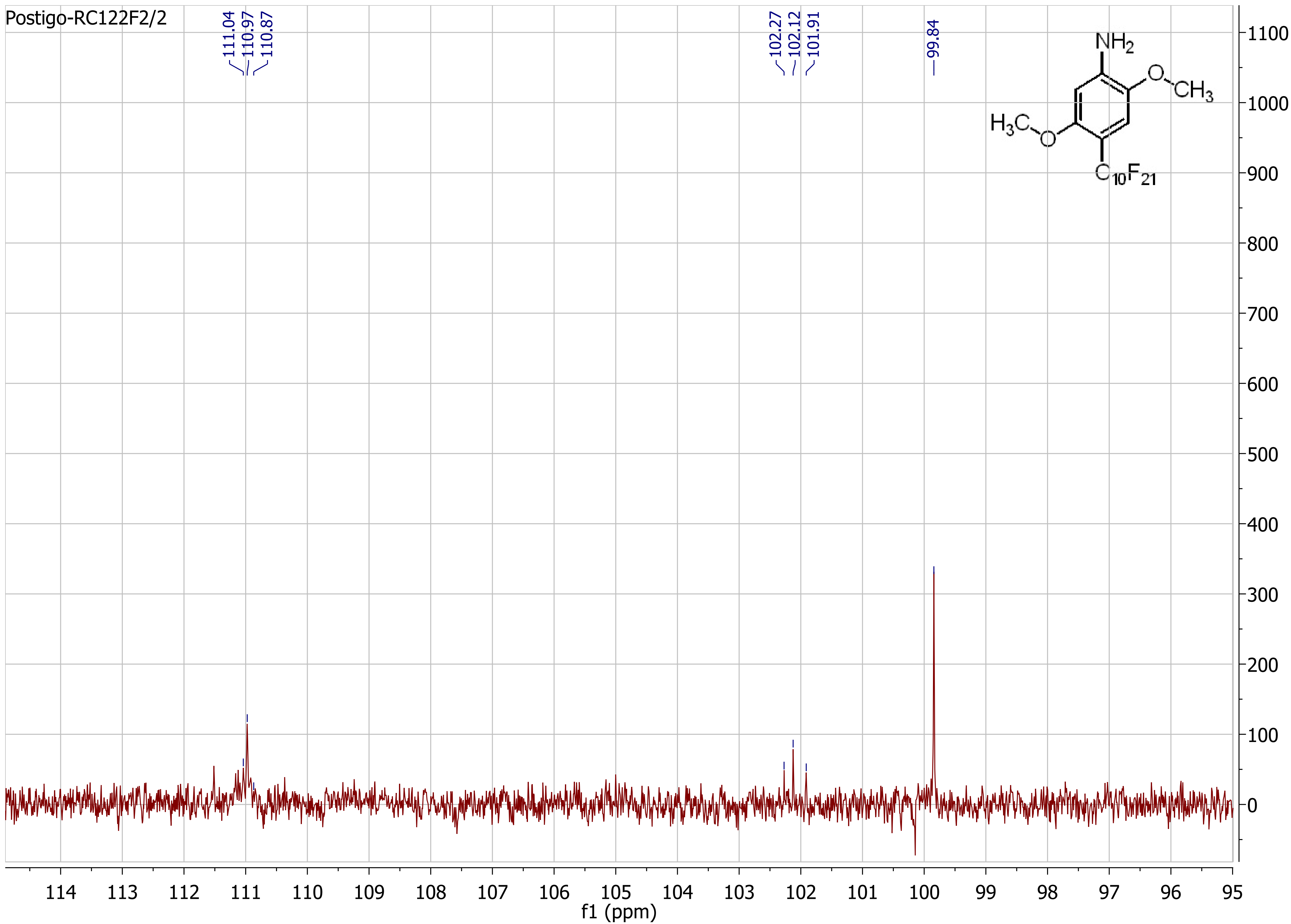


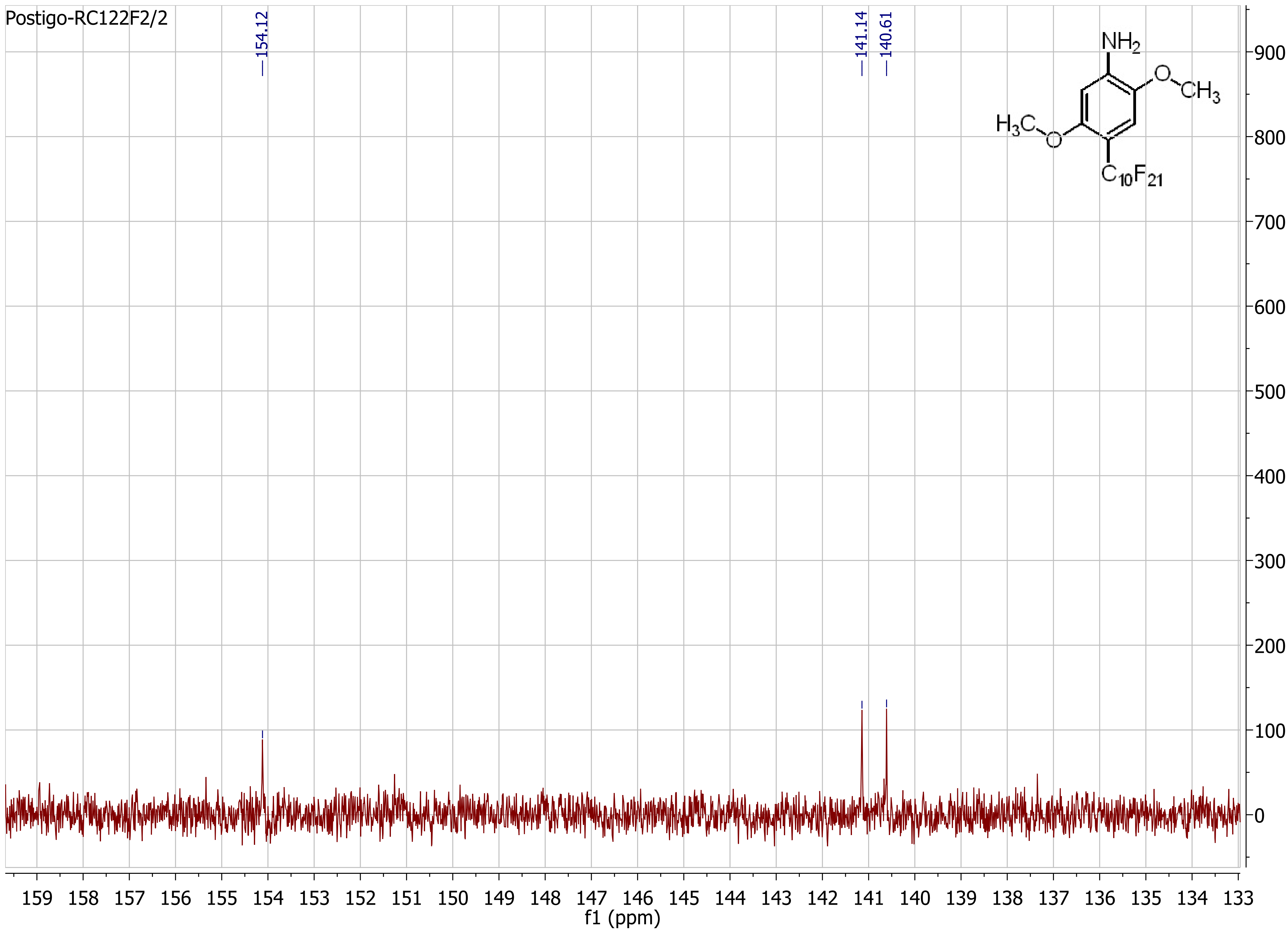
Postigo-RC122F2/1
NH2
O
CH3
H3C
O
C10F21
6.82
6.70
6.69
6.35
6.33
6.33
1.00
1.02
f1 (ppm)


Postigo-RC122F2/2
154.12
141.14
140.61
111.04
110.97
110.87
102.27
102.12
101.91
99.84
56.77
56.33
NH2
O
CH3
H3C
O
C10F21
f1 (ppm)

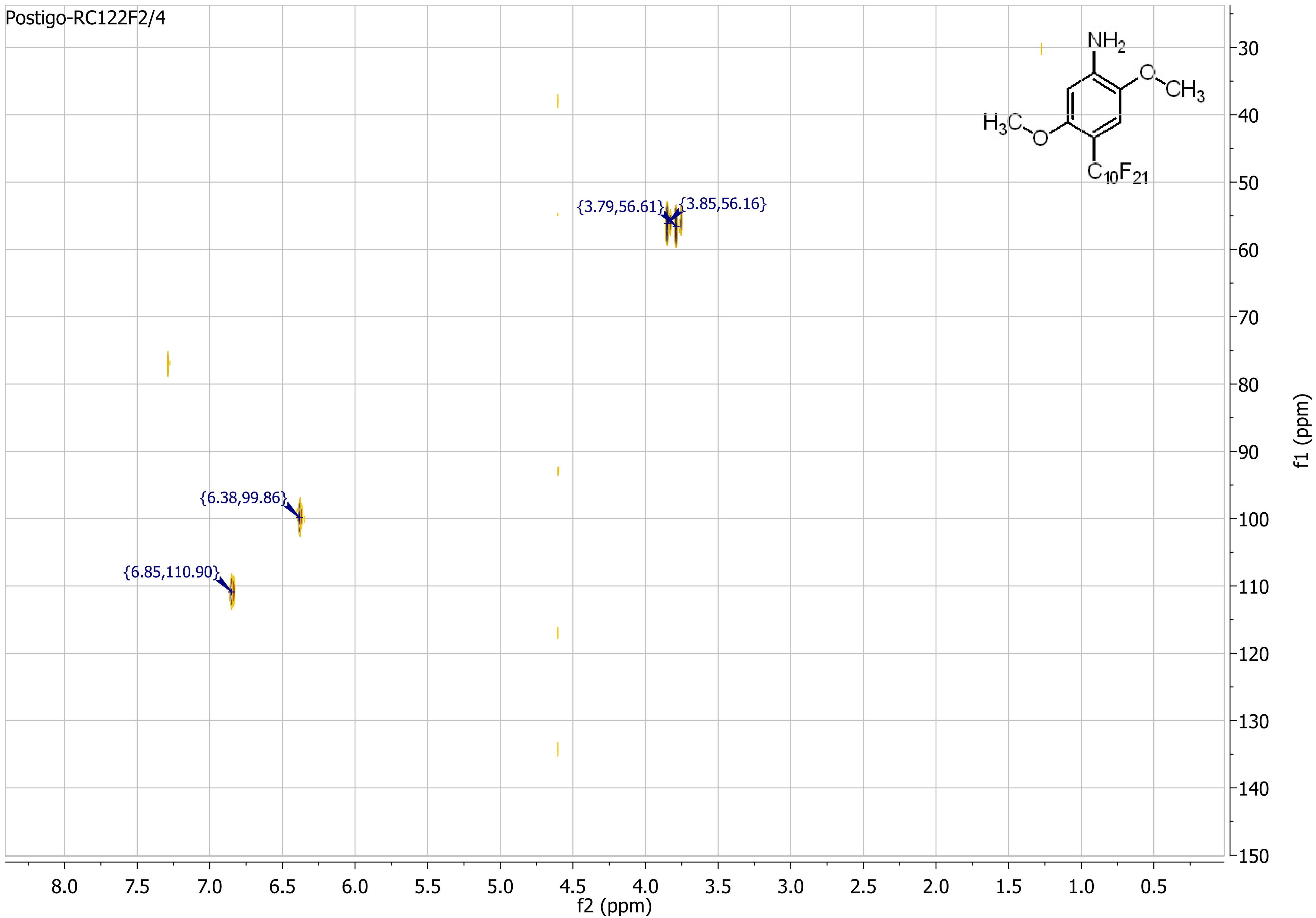


Postigo-RC122F2/2
56.77
56.33
NH2
O
CH3
H3C
O
C10F21
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
60.0
59.5
59.0
58.5
58.0
57.5
57.0
56.5
56.0
55.5
55.0
54.5
54.0
53.5
53.0
52.5
f1 (ppm)

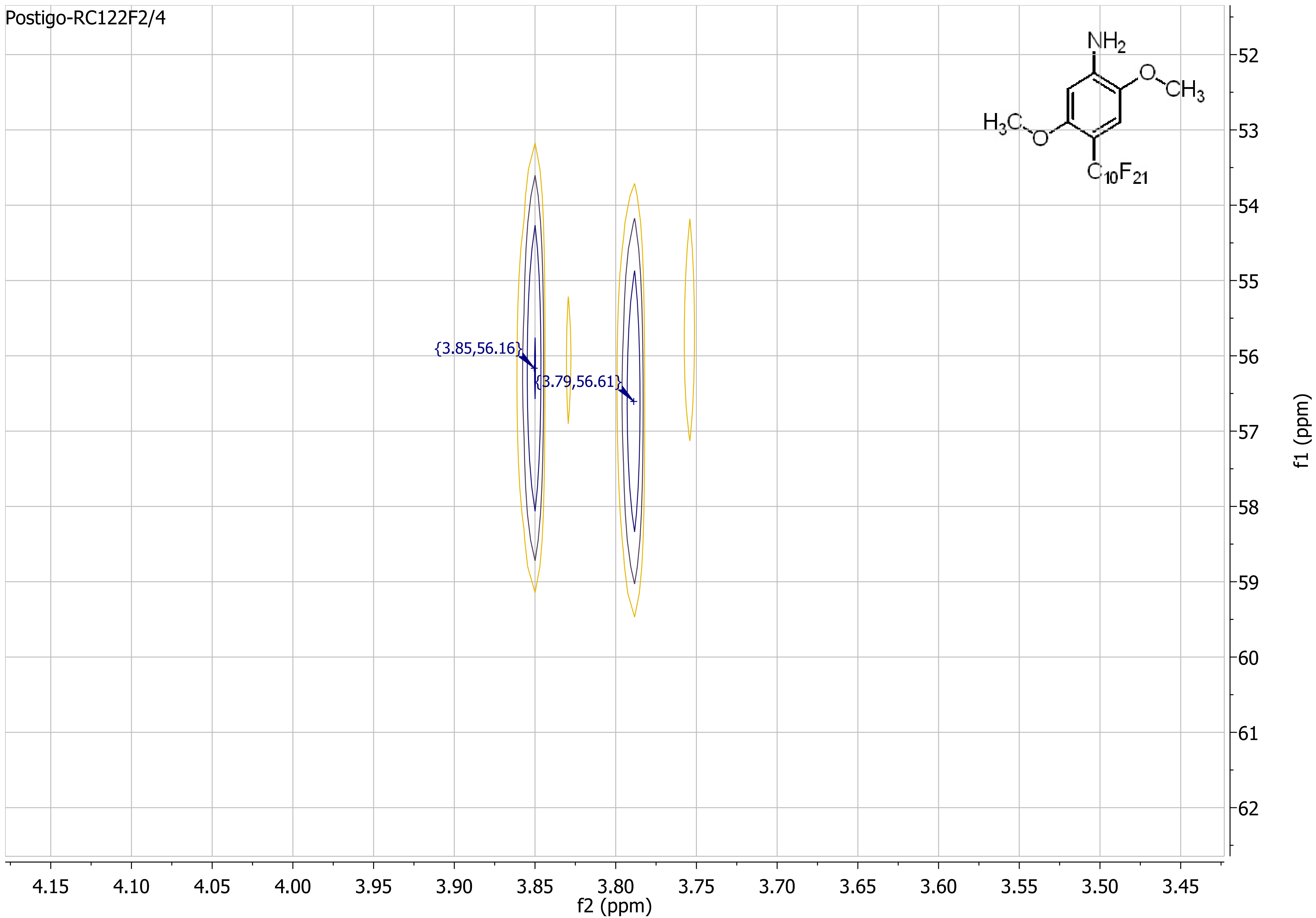

Postigo-RC122F2/2
111.04
110.97
110.87
102.27
102.12
101.91
99.84
NH_2
O
CH_3
H_3C
O
$C_{10}F_{21}$
f1 (ppm)



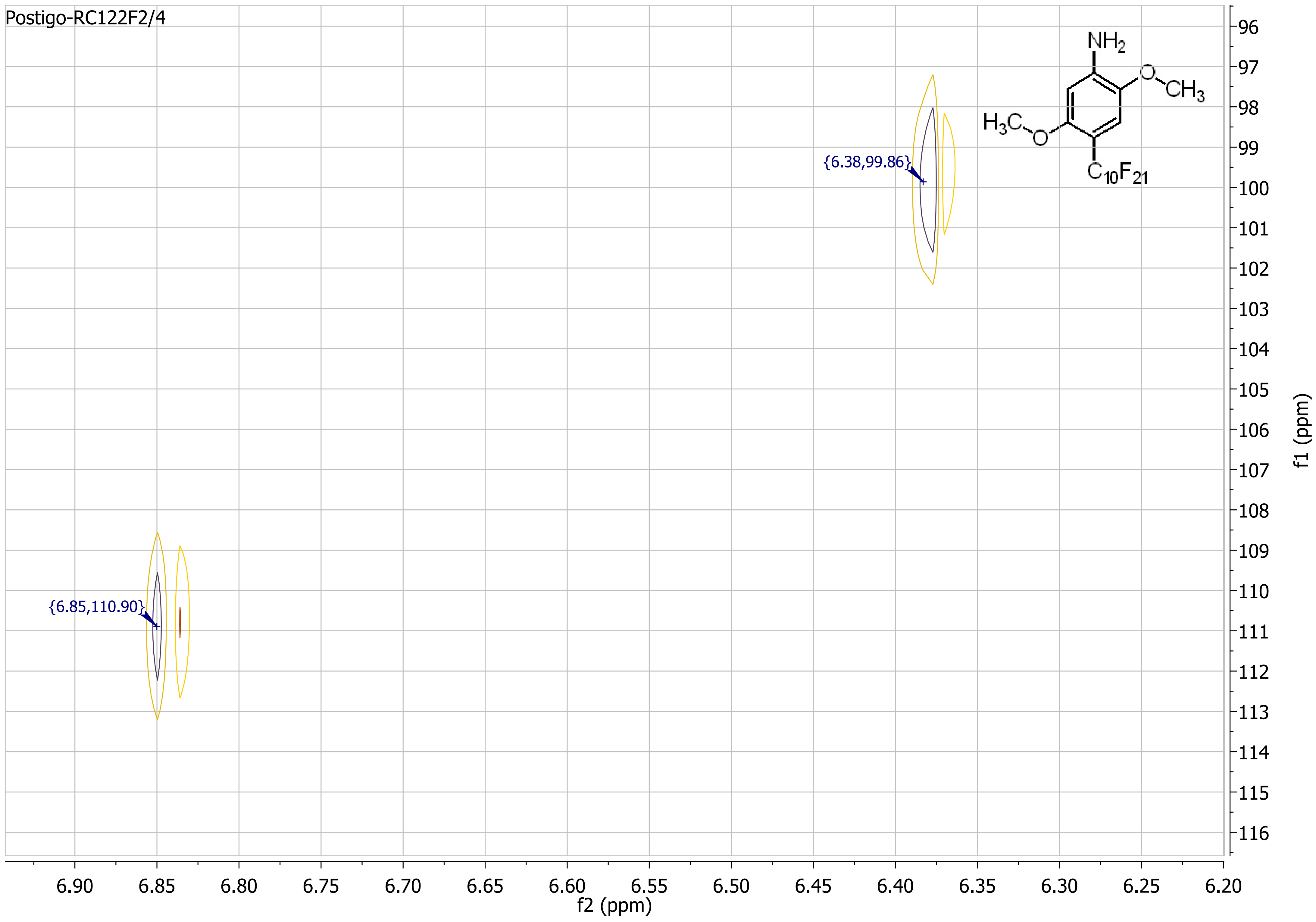
Postigo-RC122F2/2
154.12
141.14
140.61
NH2
O
CH3
H3C
O
C10F21
f1 (ppm)

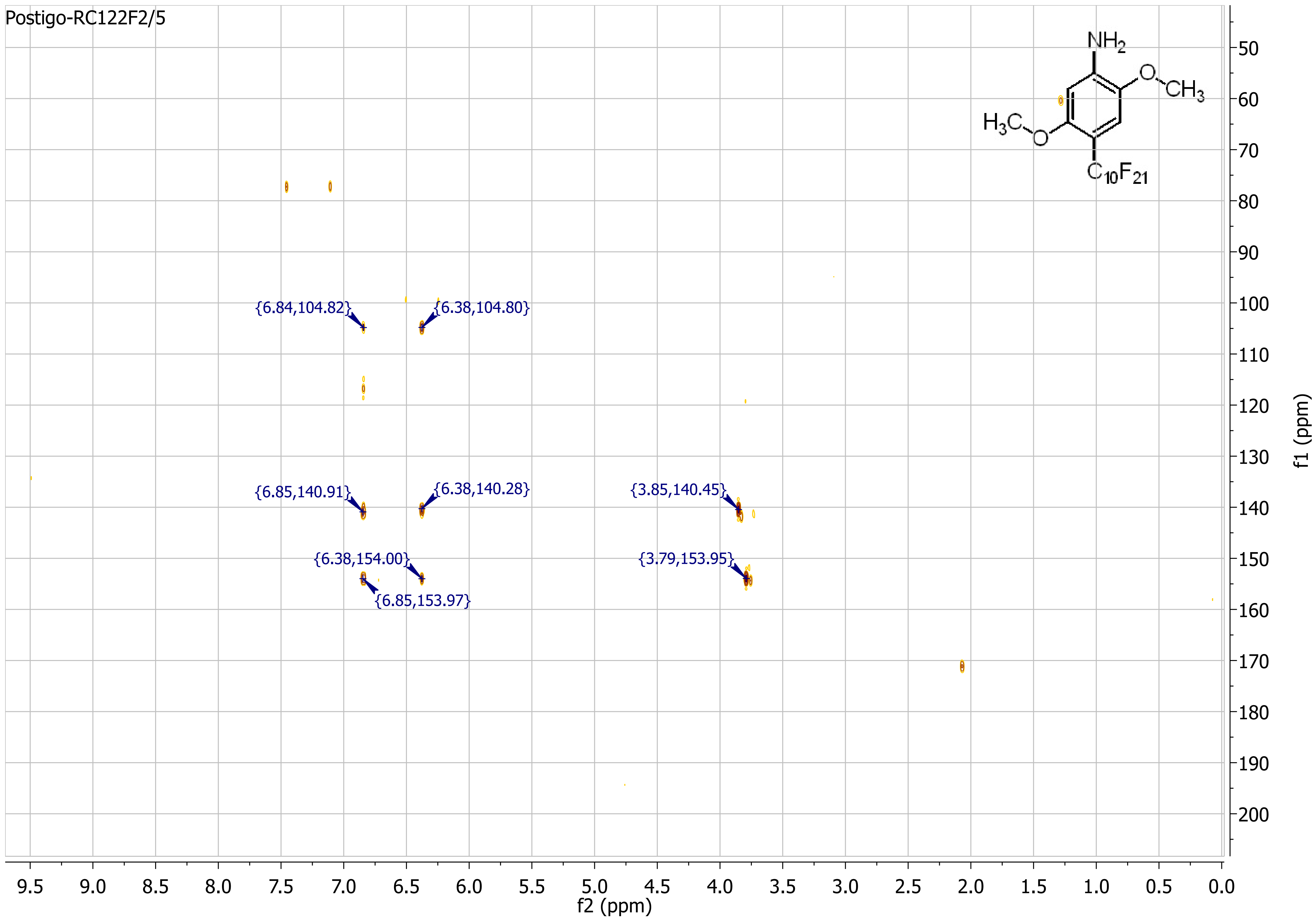


Postigo-RC122F2/4
{3.79,56.61}
{3.85,56.16}
{6.38,99.86}
{6.85,110.90}
NH2
O
CH3
H3C
O
C10F21
f2 (ppm)
f1 (ppm)

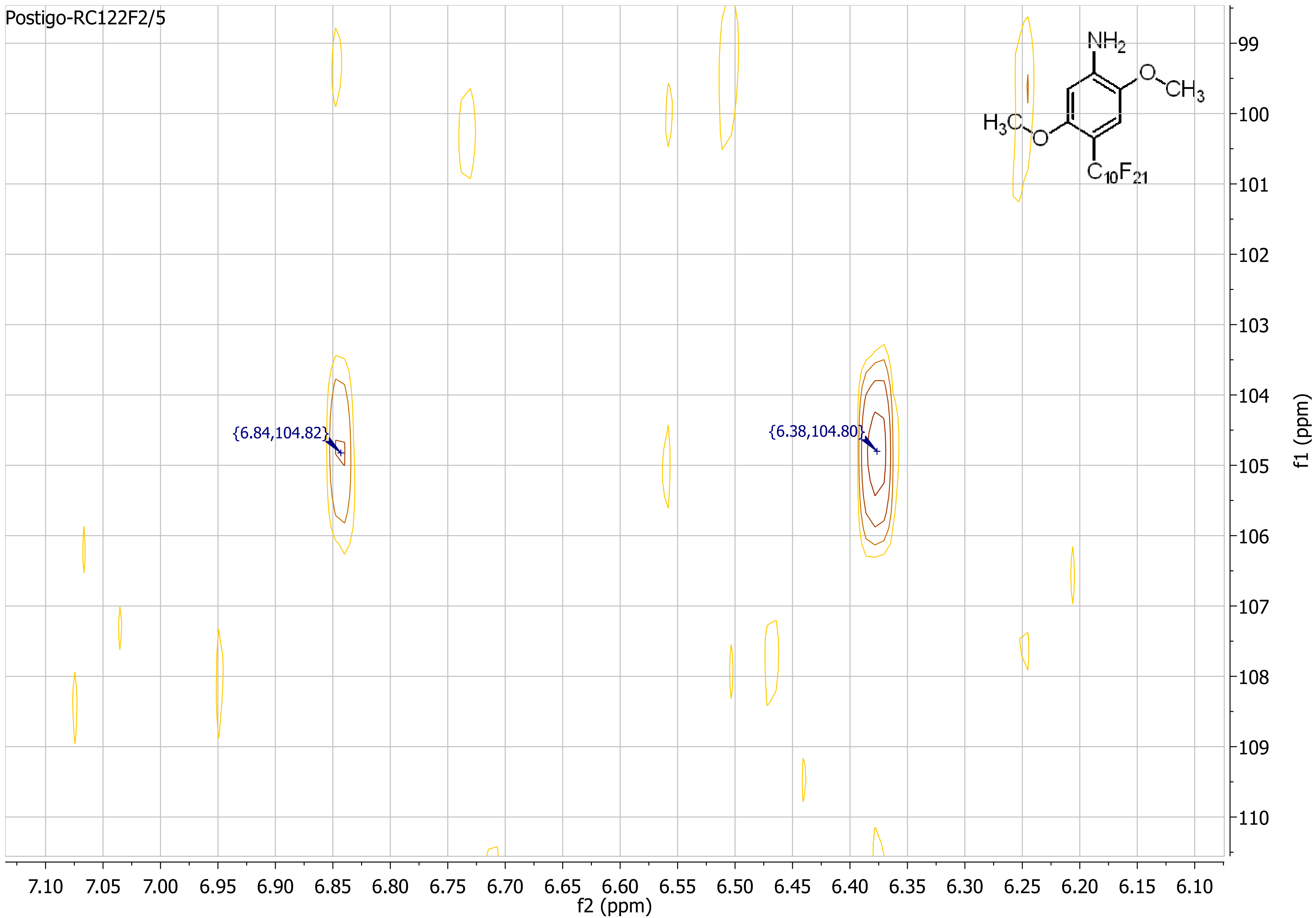


Postigo-RC122F2/4
{3.85,56.16}
{3.79,56.61}
NH2
O
CH3
H3C
O
C10F21
f2 (ppm)
f1 (ppm)
4.15
4.10
4.05
4.00
3.95
3.90
3.85
3.80
3.75
3.70
3.65
3.60
3.55
3.50
3.45
52
53
54
55
56
57
58
59
60
61
62

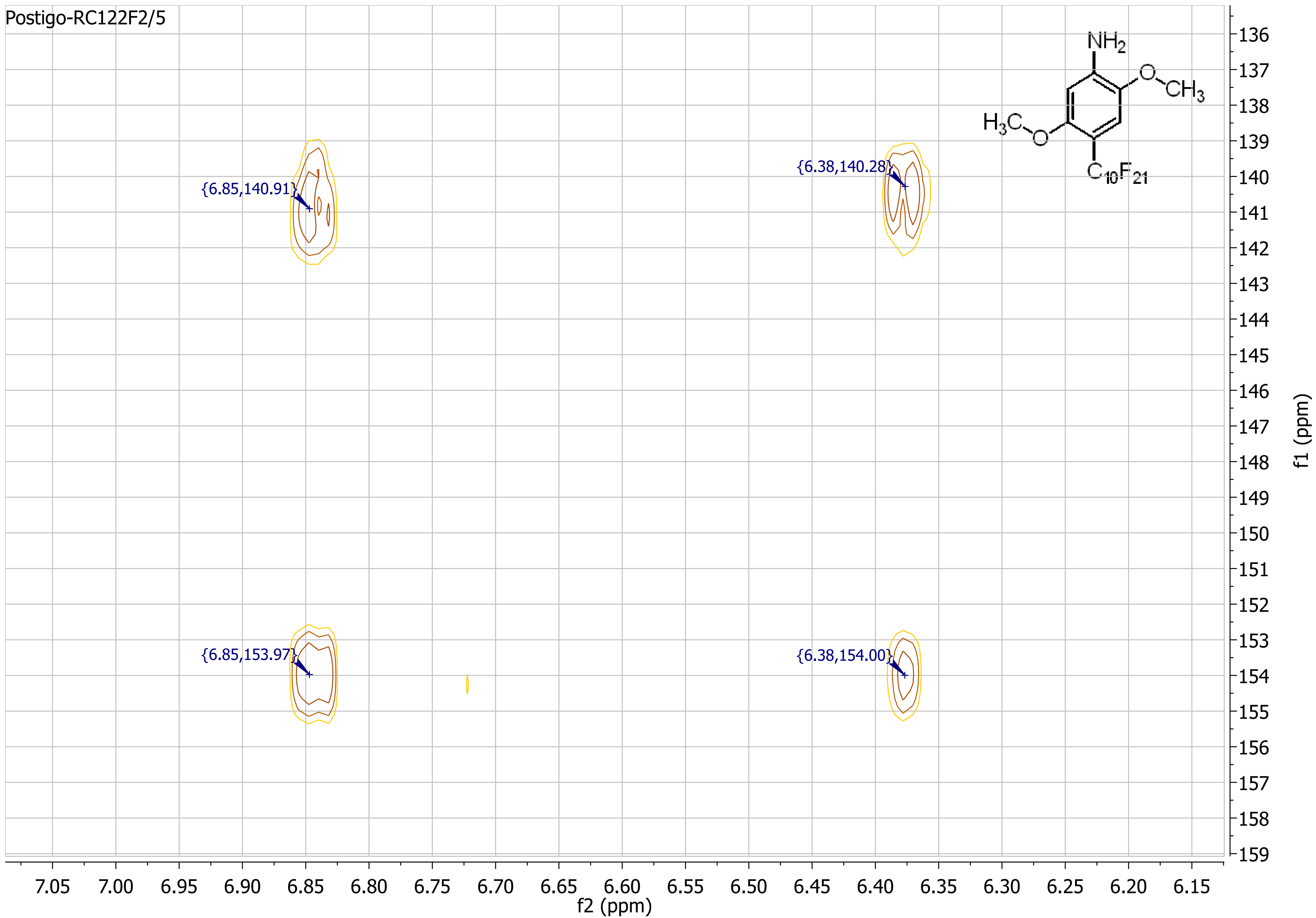

Postigo-RC122F2/4
{6.38,99.86}
{6.85,110.90}
NH2
O
CH3
H3C
O
C10F21
f2 (ppm)
f1 (ppm)



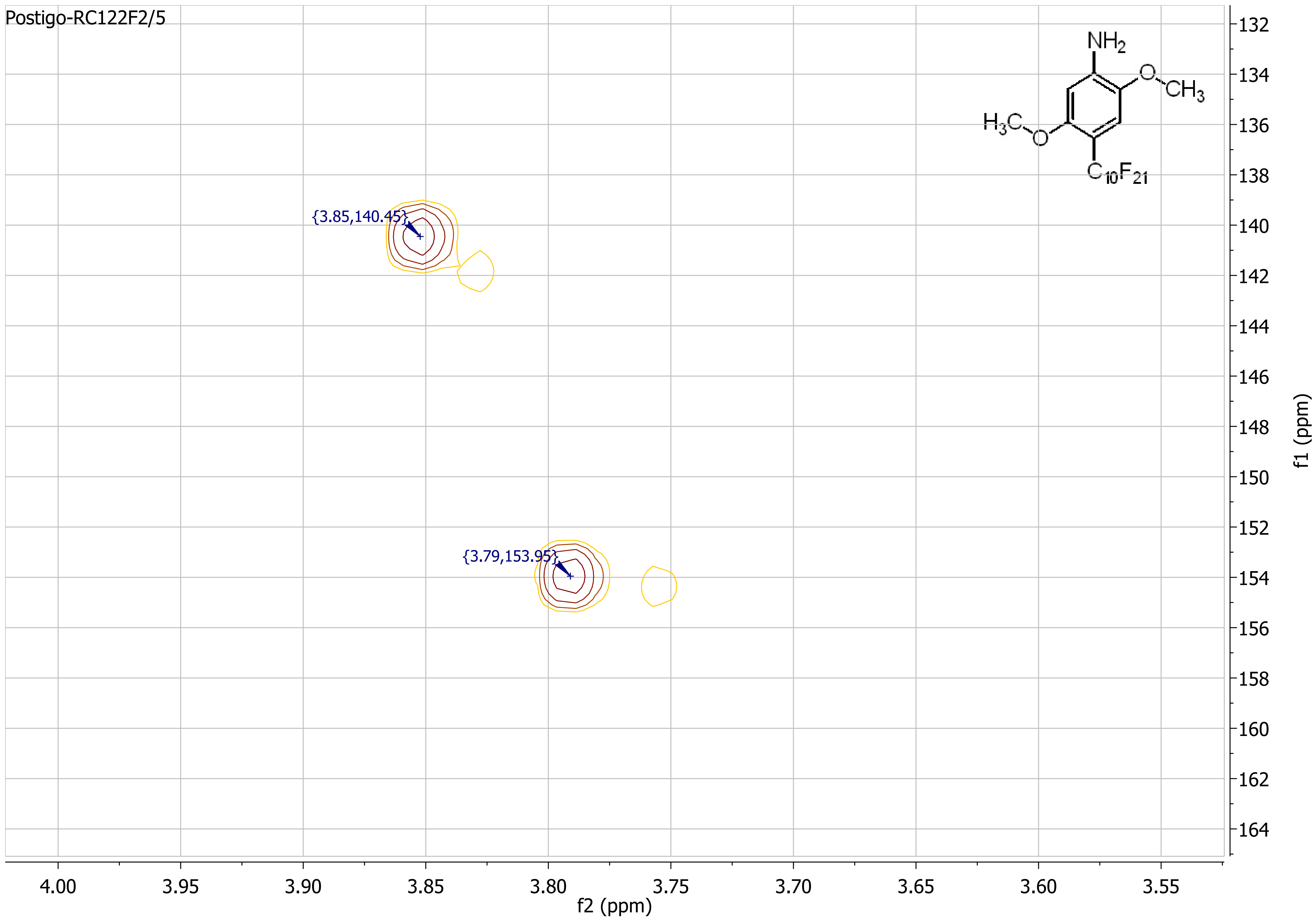
Postigo-RC122F2/5
{6.84,104.82}
{6.38,104.80}
{6.85,140.91}
{6.38,140.28}
{3.85,140.45}
{6.38,154.00}
{3.79,153.95}
{6.85,153.97}
f2 (ppm)
f1 (ppm)
NH2
O
CH3
H3C
O
C10F21

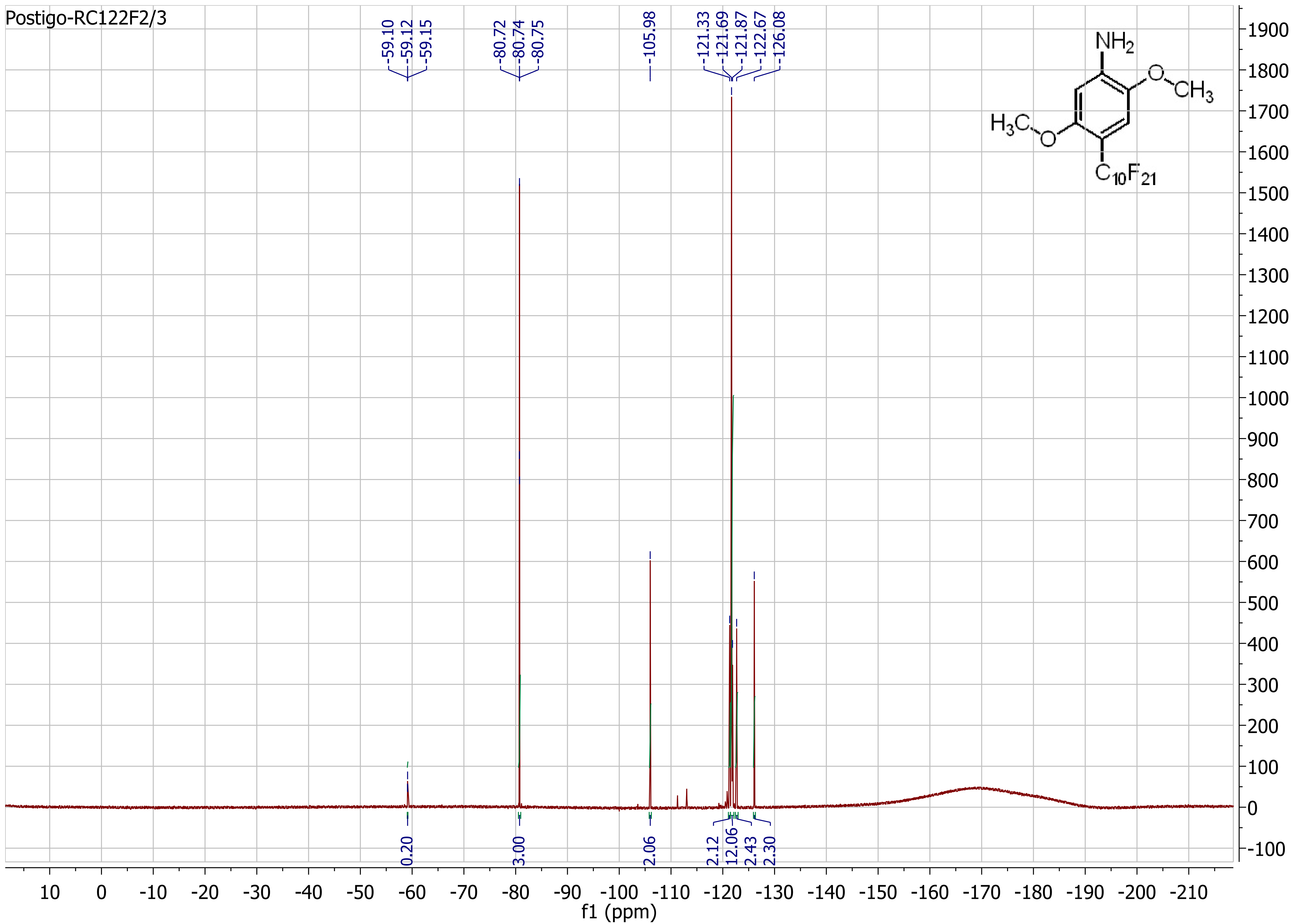


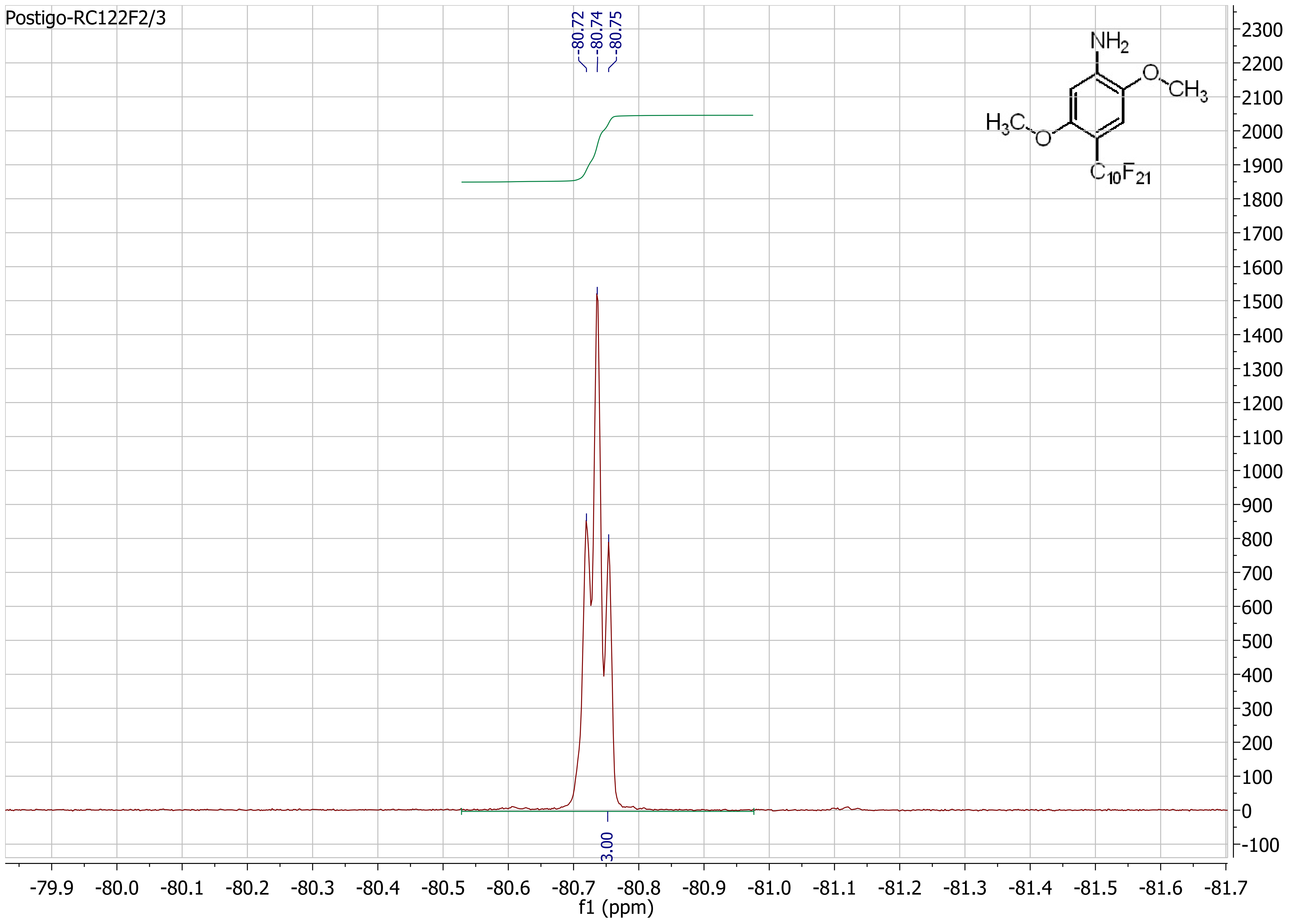
Postigo-RC122F2/5
{6.84,104.82}
{6.38,104.80}
NH2
O
CH3
H3C
O
C10F21
f2 (ppm)
f1 (ppm)
7.10 7.05 7.00 6.95 6.90 6.85 6.80 6.75 6.70 6.65 6.60 6.55 6.50 6.45 6.40 6.35 6.30 6.25 6.20 6.15 6.10
99 100 101 102 103 104 105 106 107 108 109 110



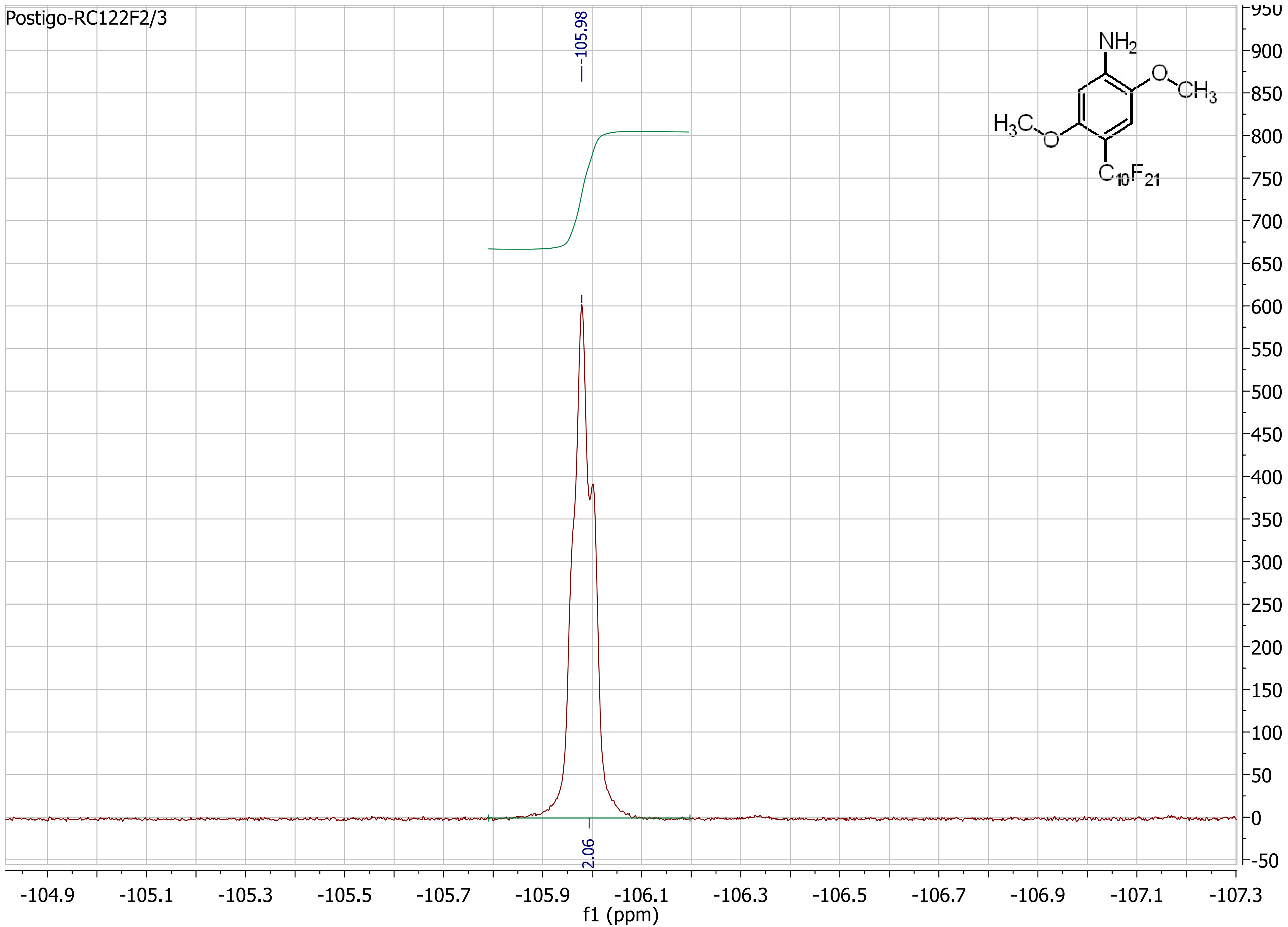
Postigo-RC122F2/5
NH_2
O
CH_3
H_3C
O
$C_{10}F_{21}$
{6.85,140.91}
{6.38,140.28}
{6.85,153.97}
{6.38,154.00}
f2 (ppm)
f1 (ppm)


Postigo-RC122F2/5
{3.85,140.45}
{3.79,153.95}
NH2
O
CH3
H3C
O
C10F21
f2 (ppm)
f1 (ppm)

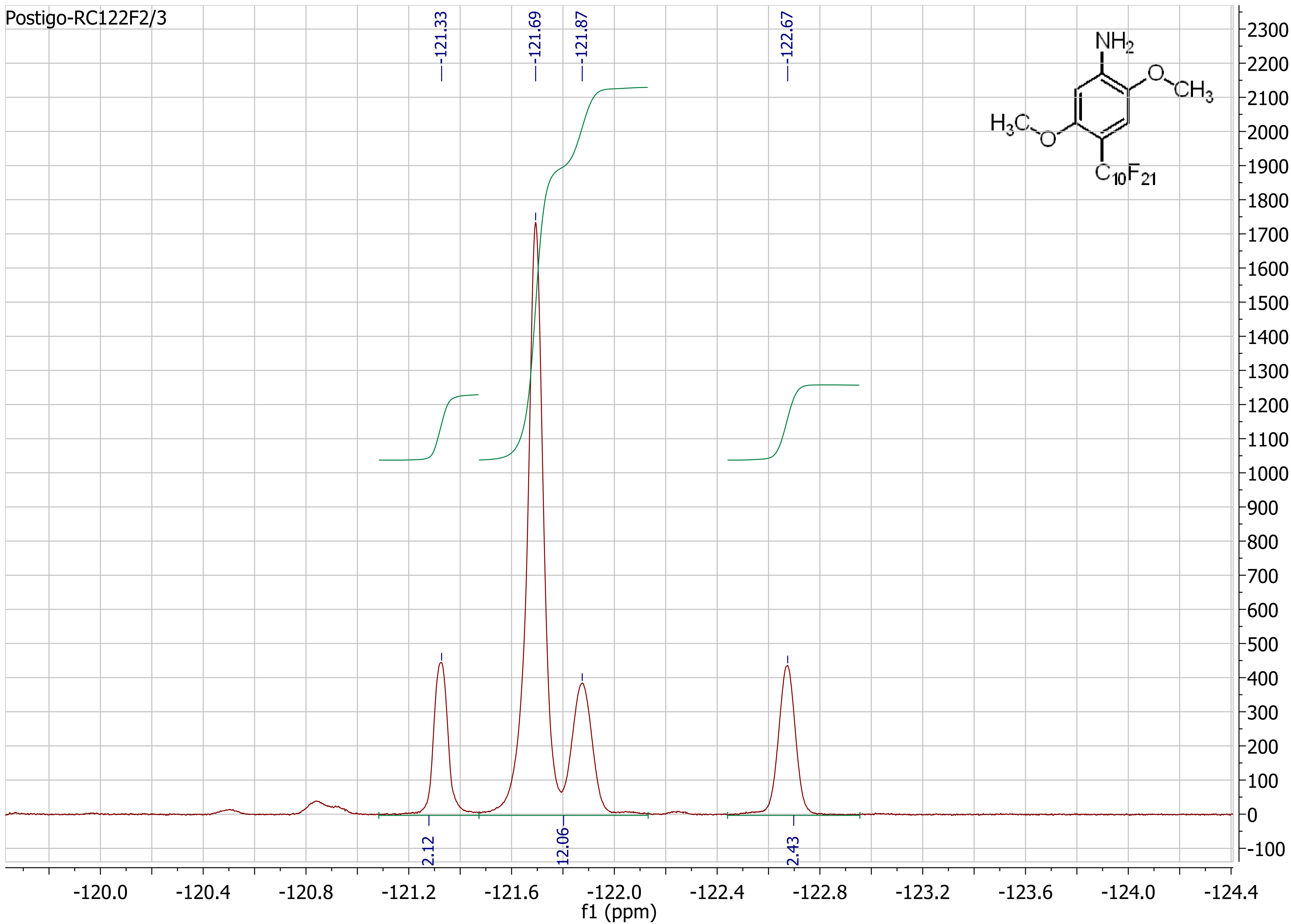

Postigo-RC122F2/3
-59.10
-59.12
-59.15
-80.72
-80.74
-80.75
-105.98
-121.33
-121.69
-121.87
-122.67
-126.08
NH2
O
CH3
H3C
O
C10F21
0.20
3.00
2.06
2.12
12.06
2.43
2.30
f1 (ppm)



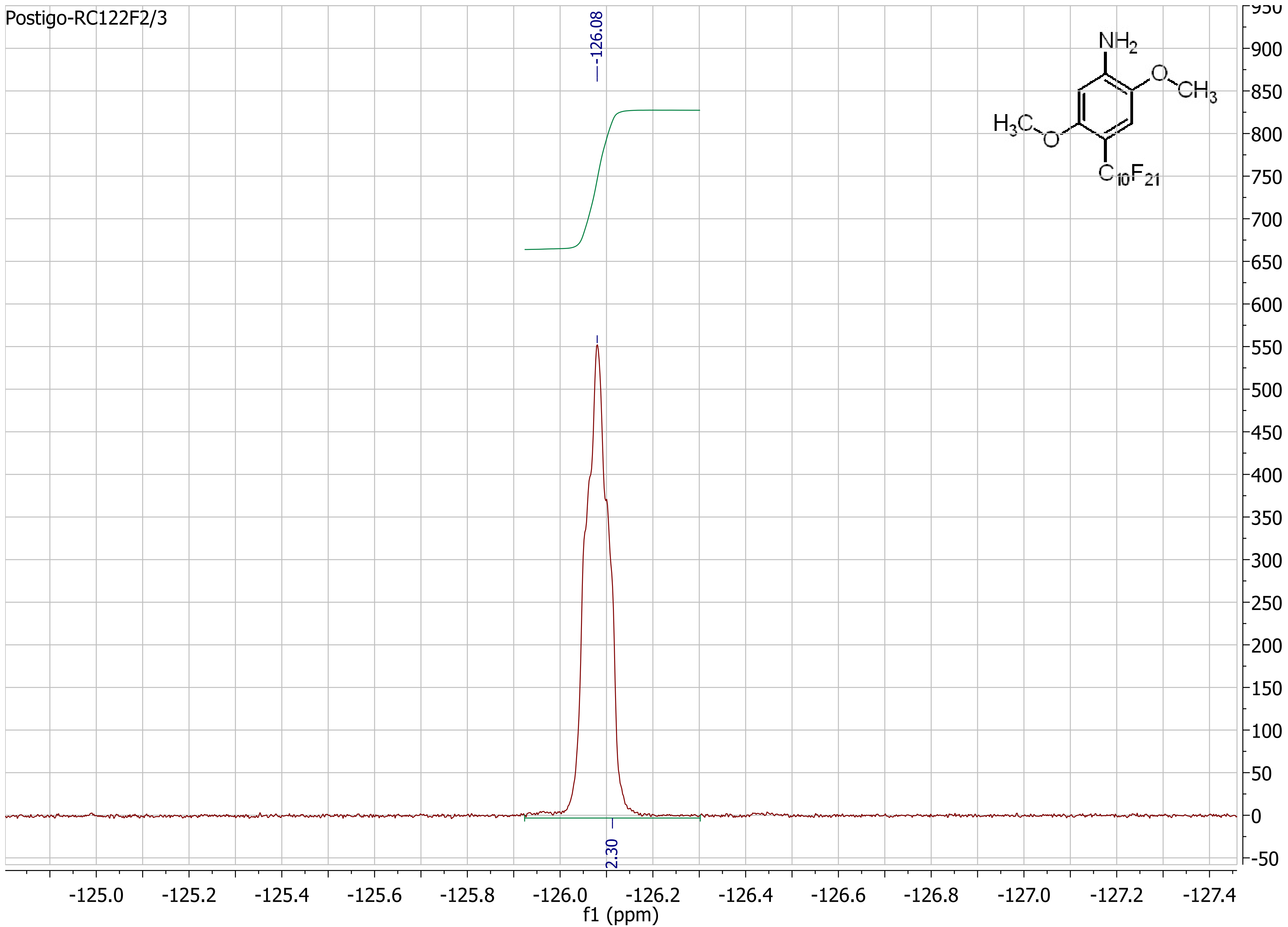
Postigo-RC122F2/3
-80.72
-80.74
-80.75
3.00
NH2
O
CH3
H3C
O
C10F21
f1 (ppm)



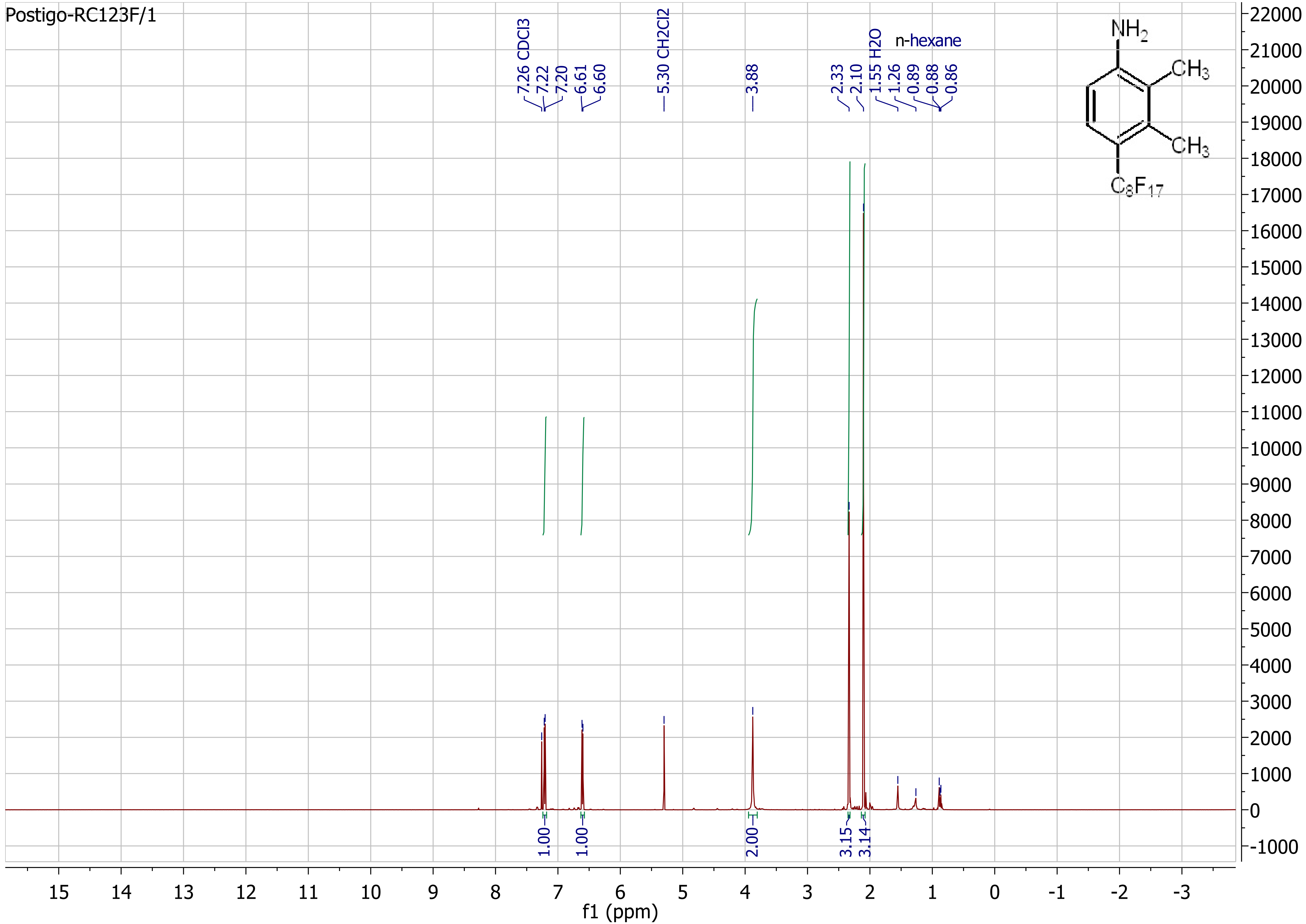
Postigo-RC122F2/3
-105.98
NH2
O
CH3
H3C
O
C10F21
2.06
f1 (ppm)



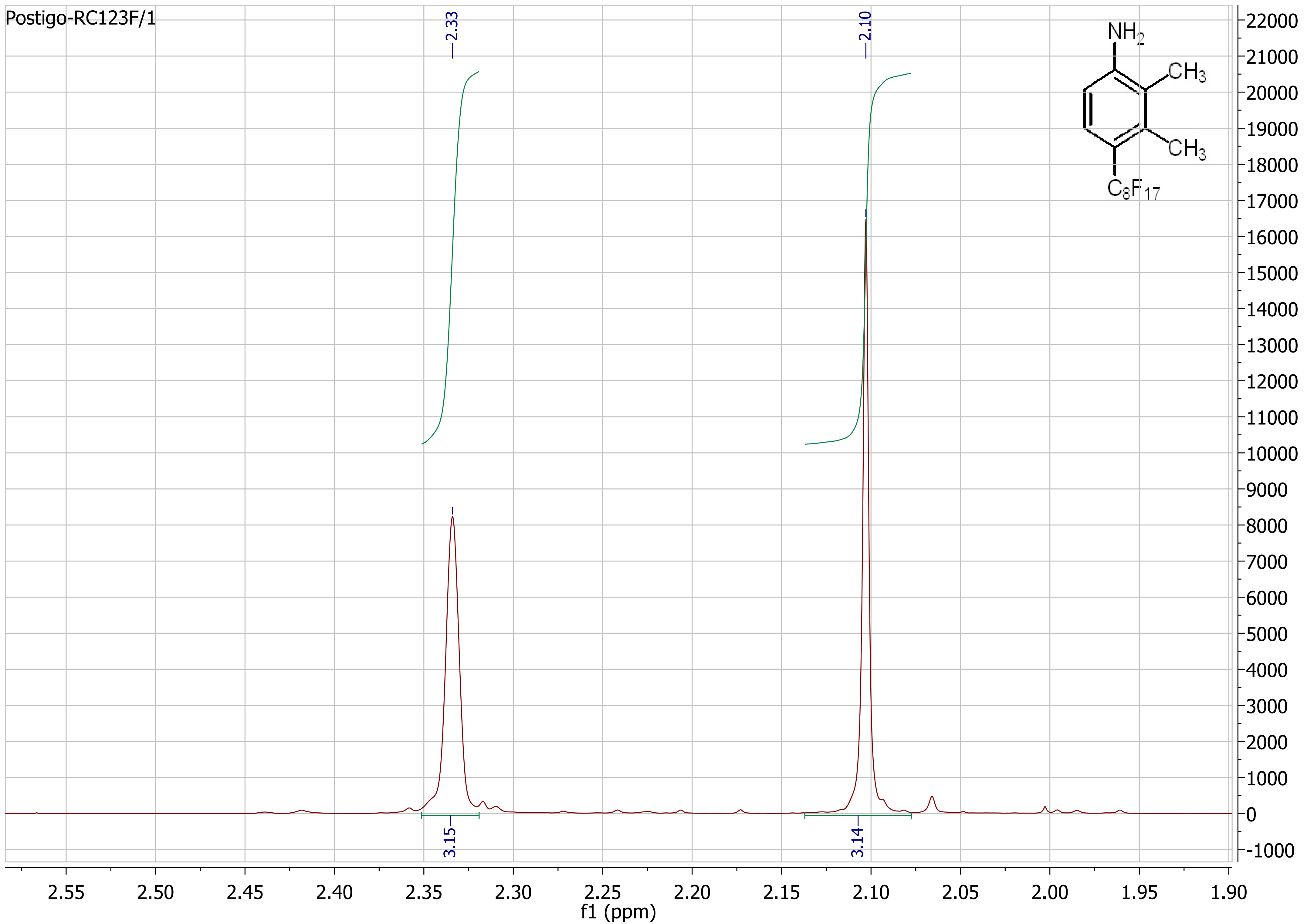
Postigo-RC122F2/3
-121.33
-121.69
-121.87
-122.67
NH_2
O
CH_3
H_3C
O
$C_{10}F_{21}$
2.12
12.06
2.43
f1 (ppm)



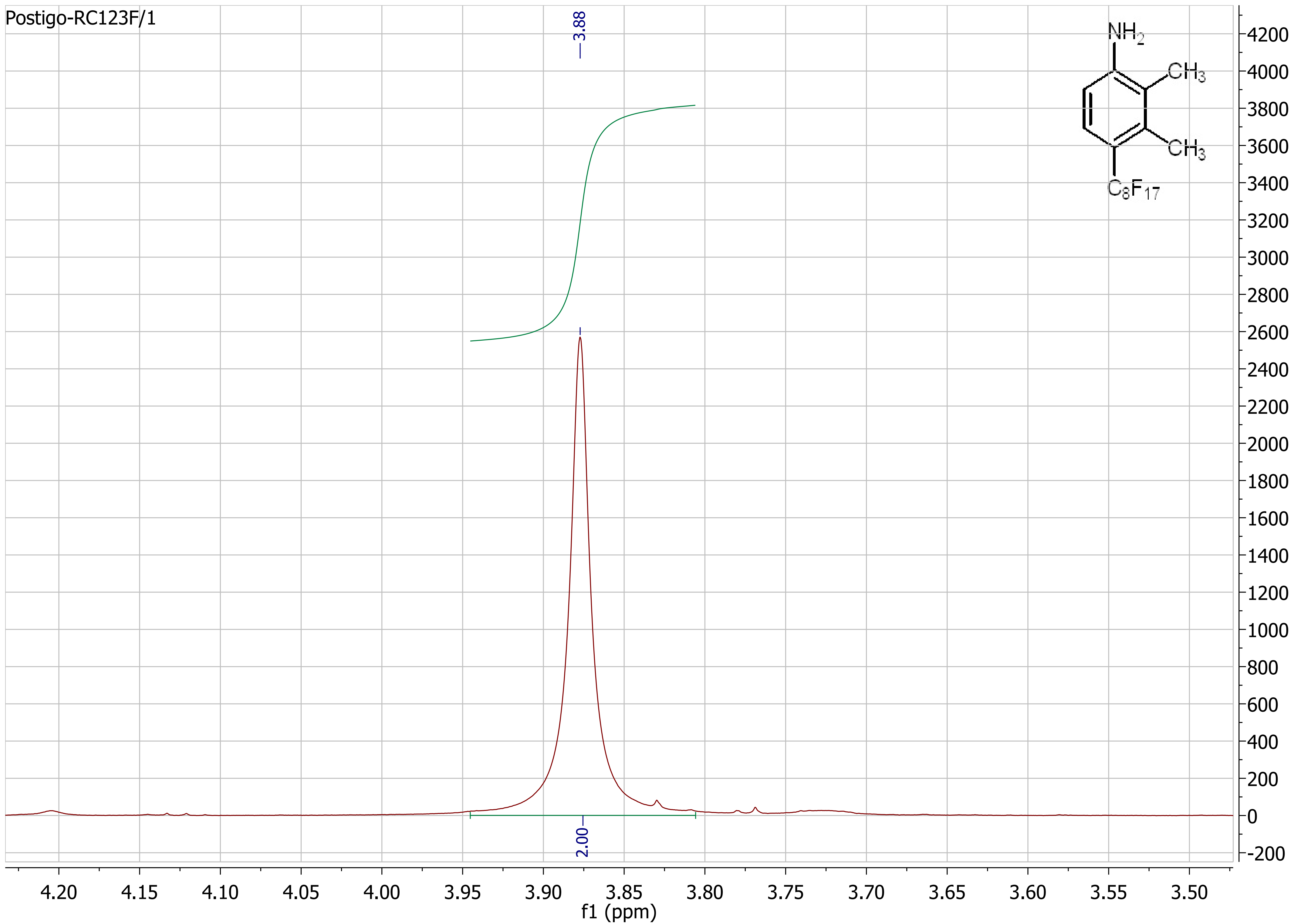
Postigo-RC122F2/3
-126.08
NH_2
O
CH_3
H_3C
O
$C_{10}F_{21}$
2.30
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
-125.0
-125.2
-125.4
-125.6
-125.8
-126.0
-126.2
-126.4
-126.6
-126.8
-127.0
-127.2
-127.4
f1 (ppm)



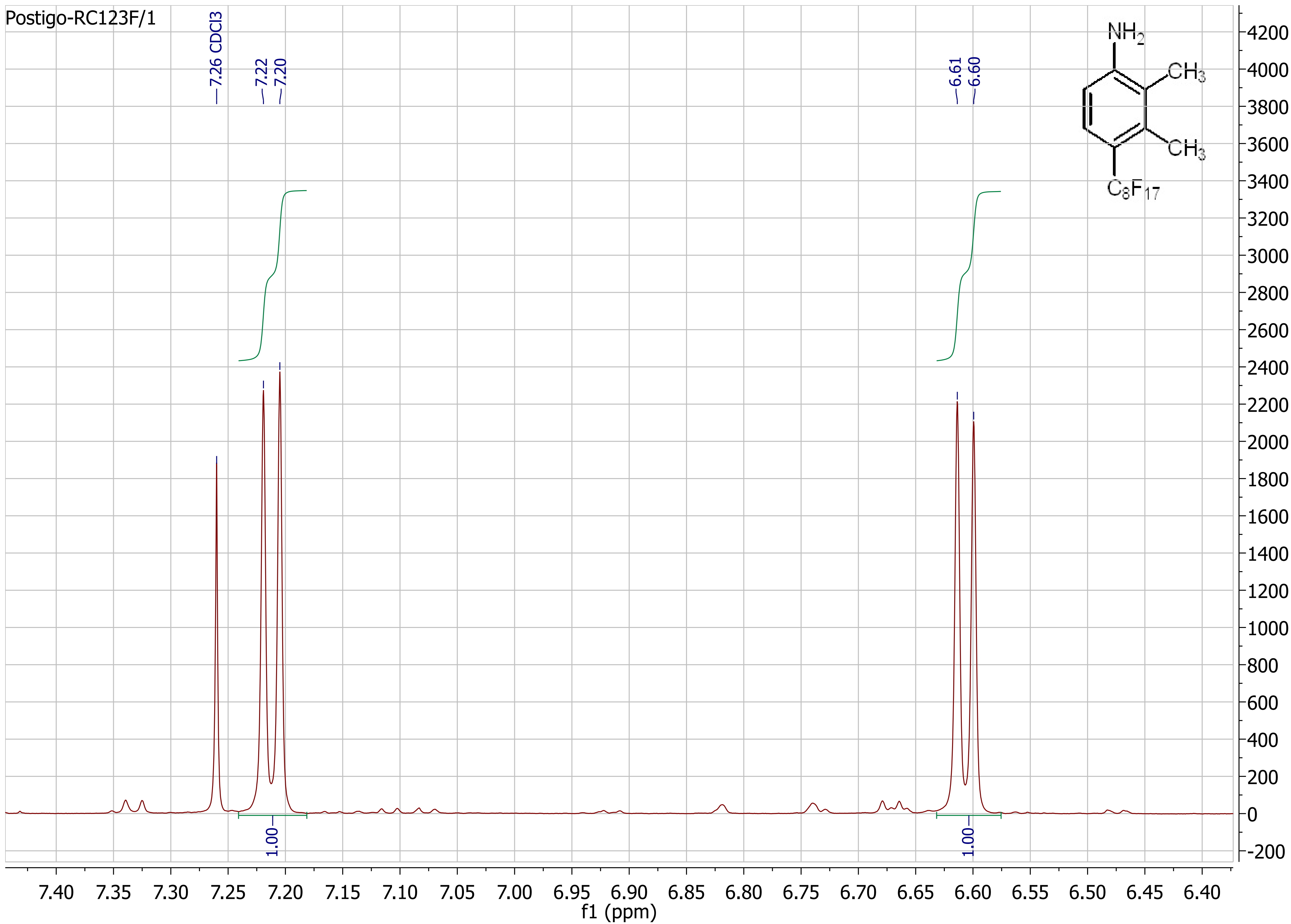
Postigo-RC123F/1
7.26 CDCl3
7.22
7.20
6.61
6.60
5.30 CH2Cl2
3.88
2.33
2.10
1.55 H2O
1.26
0.89
0.88
0.86
n-hexane
NH2
CH3
CH3
C8F17
1.00
1.00
2.00
3.15
3.14
f1 (ppm)



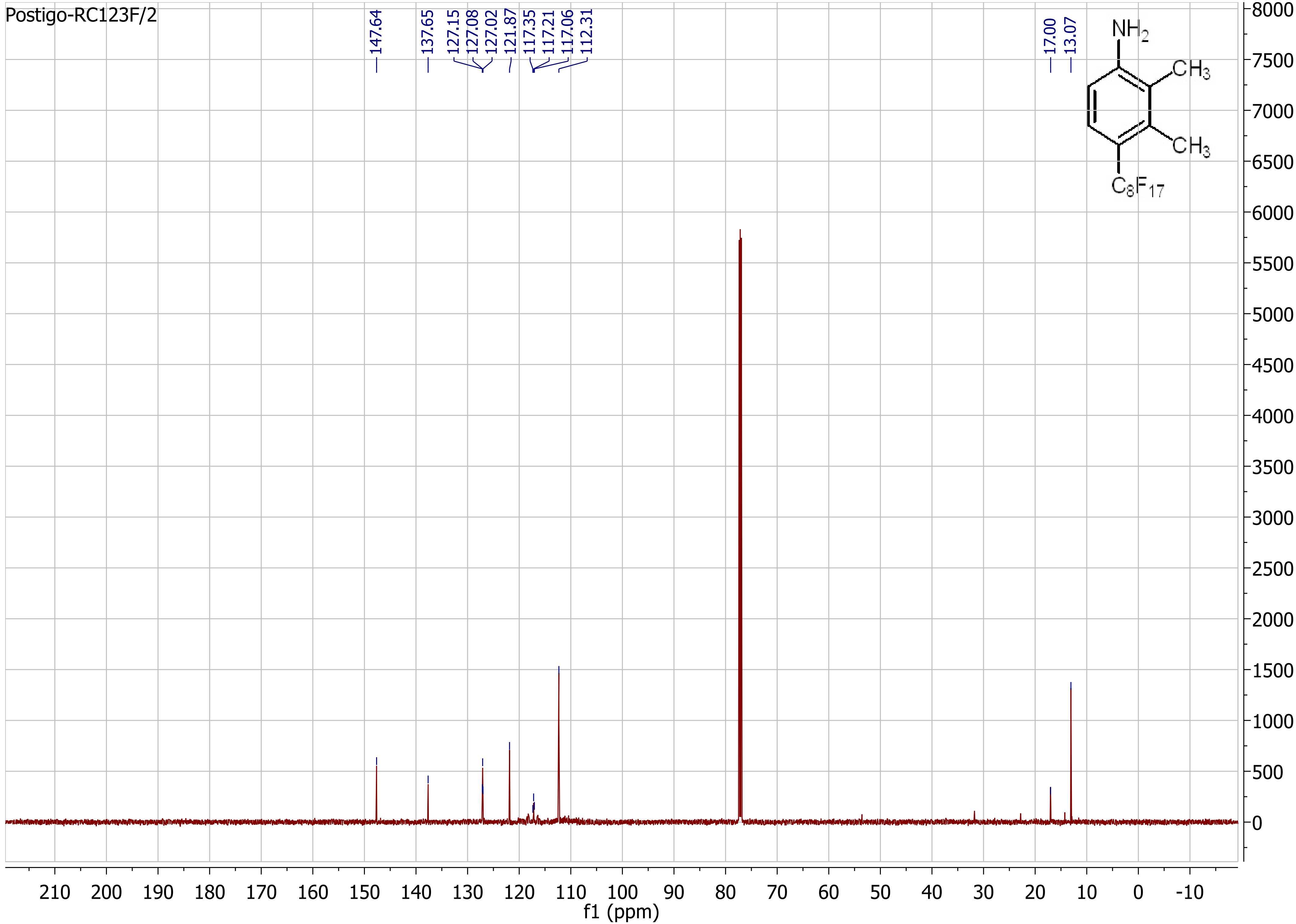
Postigo-RC123F/1
2.33
2.10
3.15
3.14
f1 (ppm)
NH2
CH3
CH3
C8F17



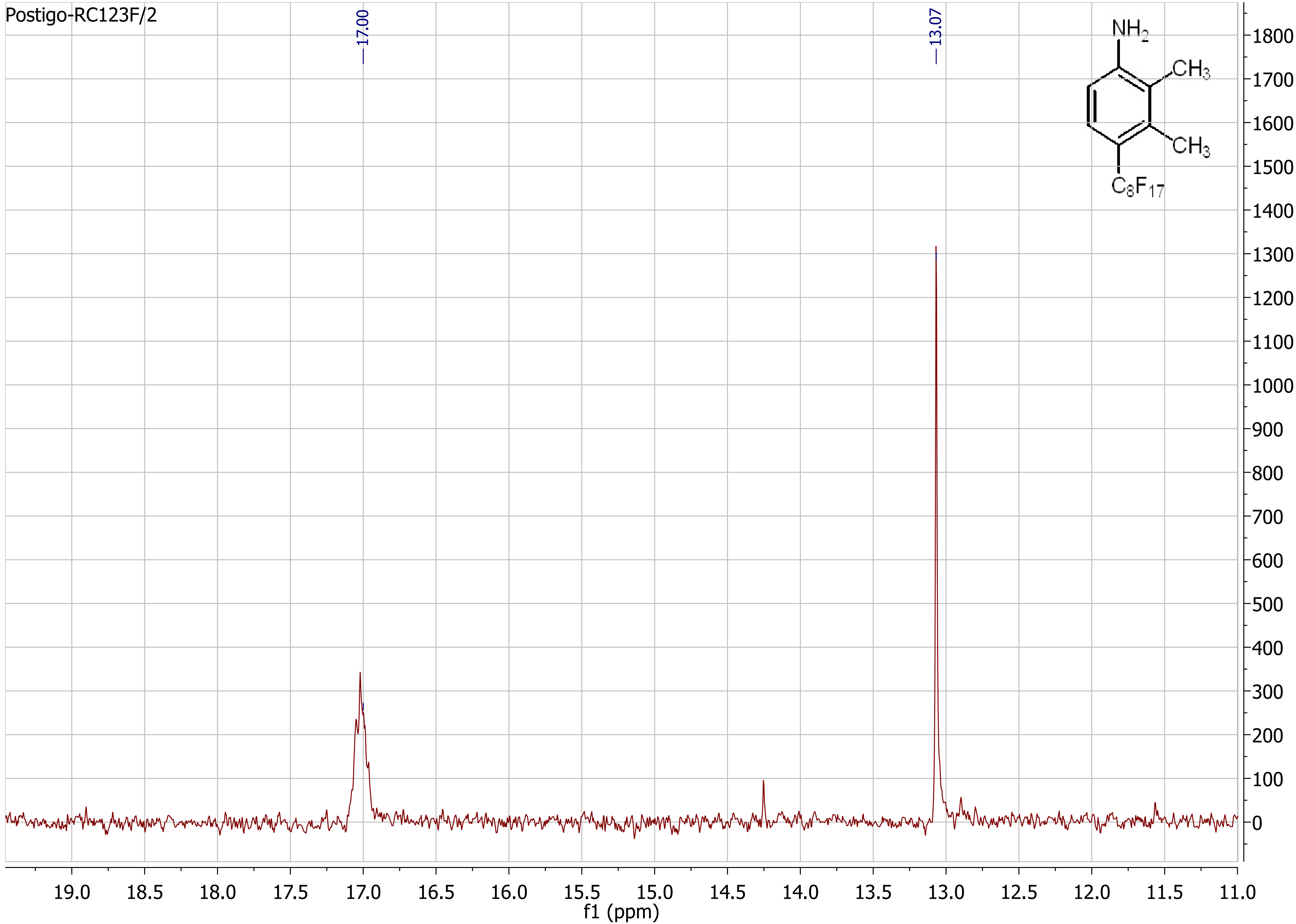
Postigo-RC123F/1
3.88
NH2
CH3
CH3
C8F17
2.00
4.20
4.15
4.10
4.05
4.00
3.95
3.90
3.85
3.80
3.75
3.70
3.65
3.60
3.55
3.50
f1 (ppm)

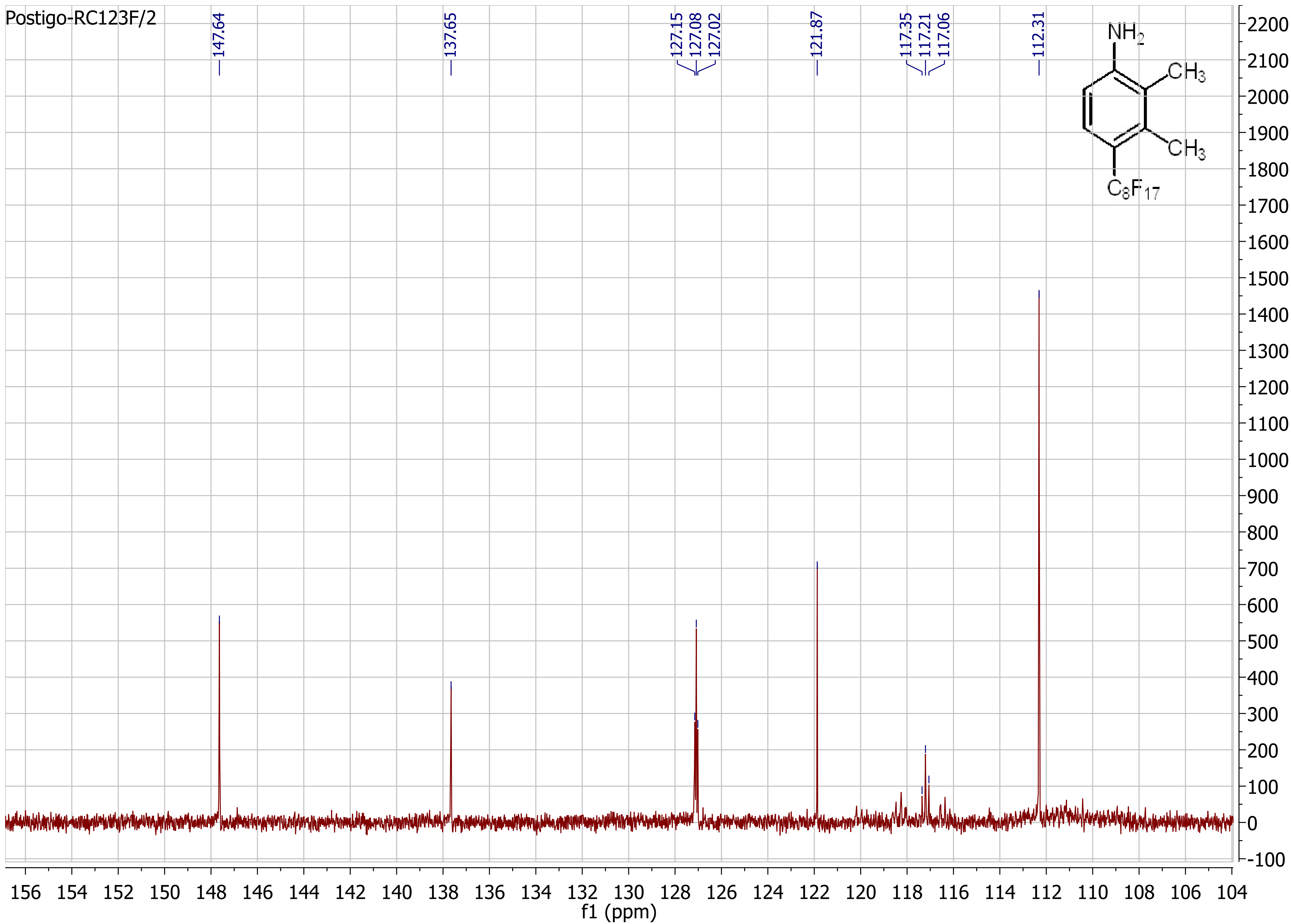


Postigo-RC123F/1
7.26 CDCl3
7.22
7.20
6.61
6.60
NH2
CH3
CH3
C8F17
1.00
1.00
f1 (ppm)

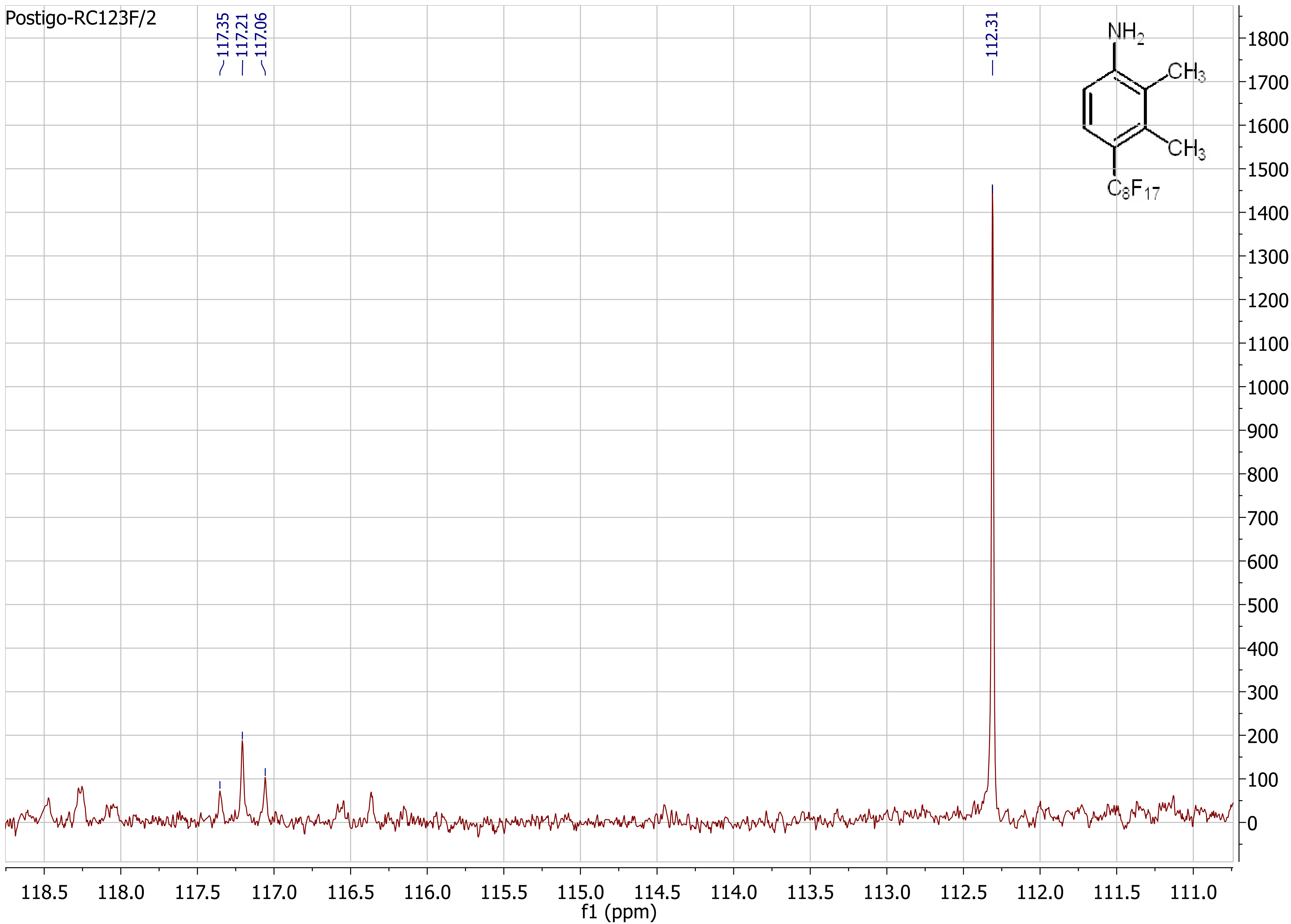


Postigo-RC123F/2
147.64
137.65
127.15
127.08
127.02
121.87
117.35
117.21
117.06
112.31
17.00
13.07
NH2
CH3
CH3
C8F17
f1 (ppm)

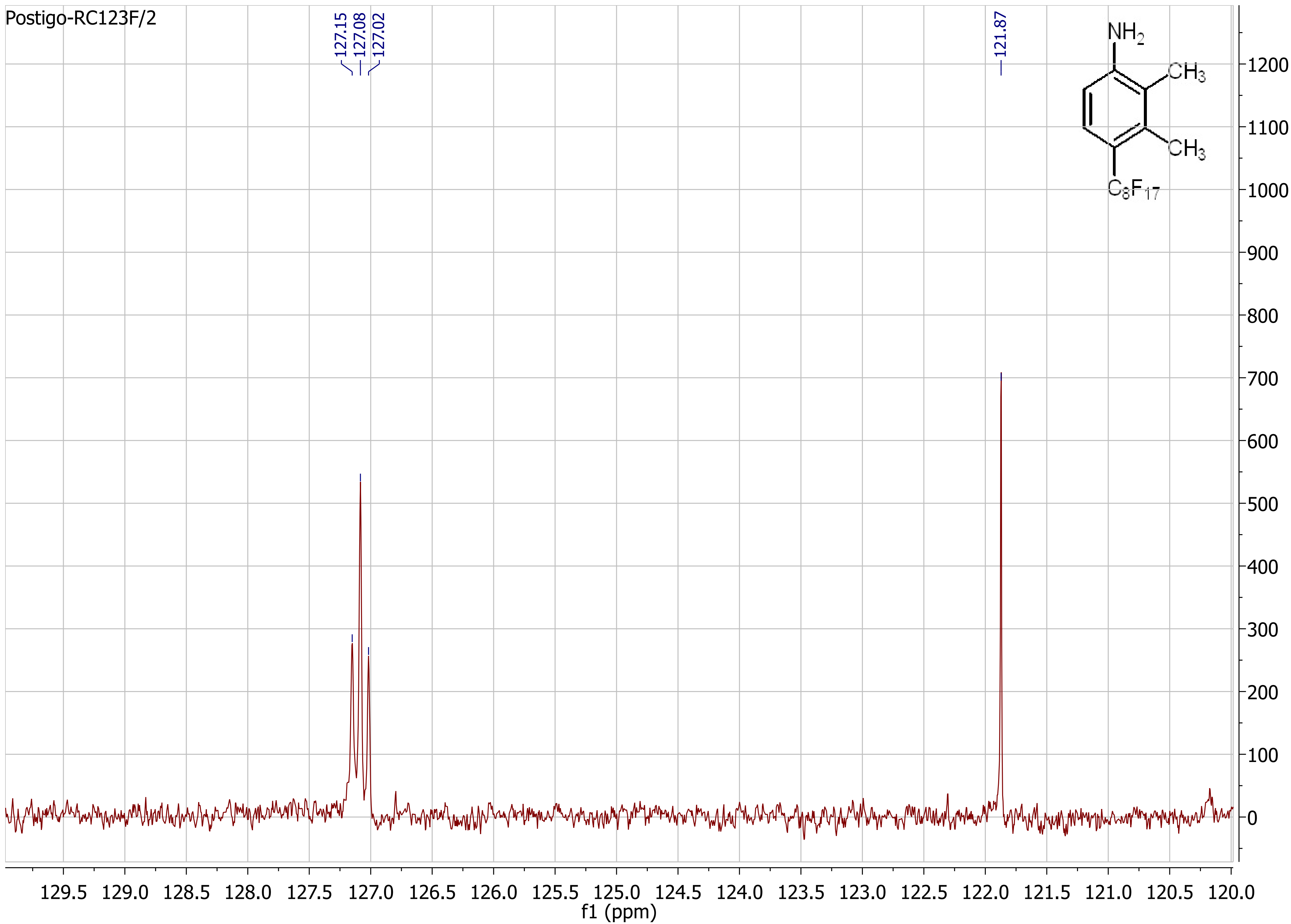

Postigo-RC123F/2
17.00
13.07
NH2
CH3
CH3
C8F17
f1 (ppm)



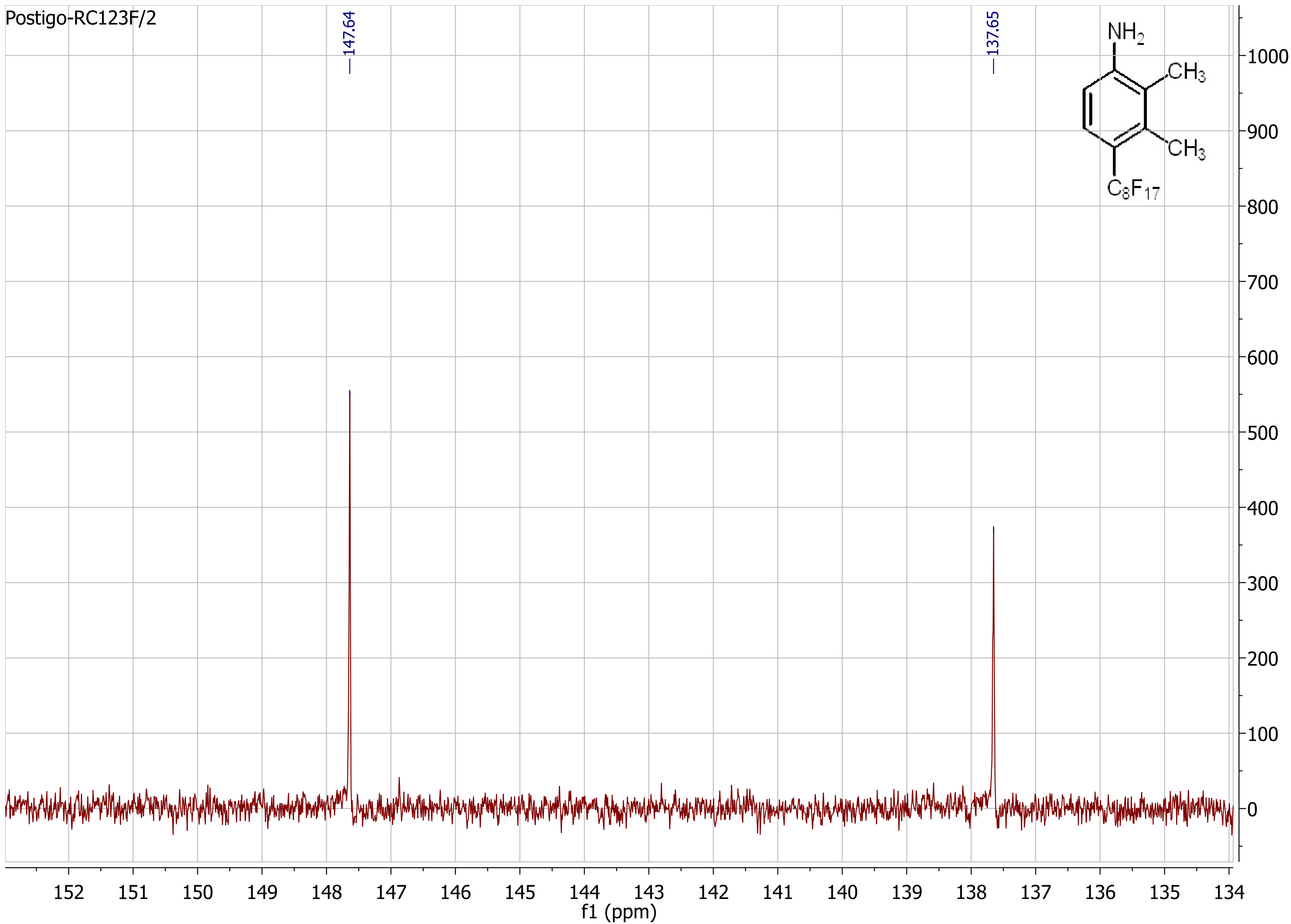
Postigo-RC123F/2
147.64
137.65
127.15
127.08
127.02
121.87
117.35
117.21
117.06
112.31
NH2
CH3
CH3
C8F17
f1 (ppm)



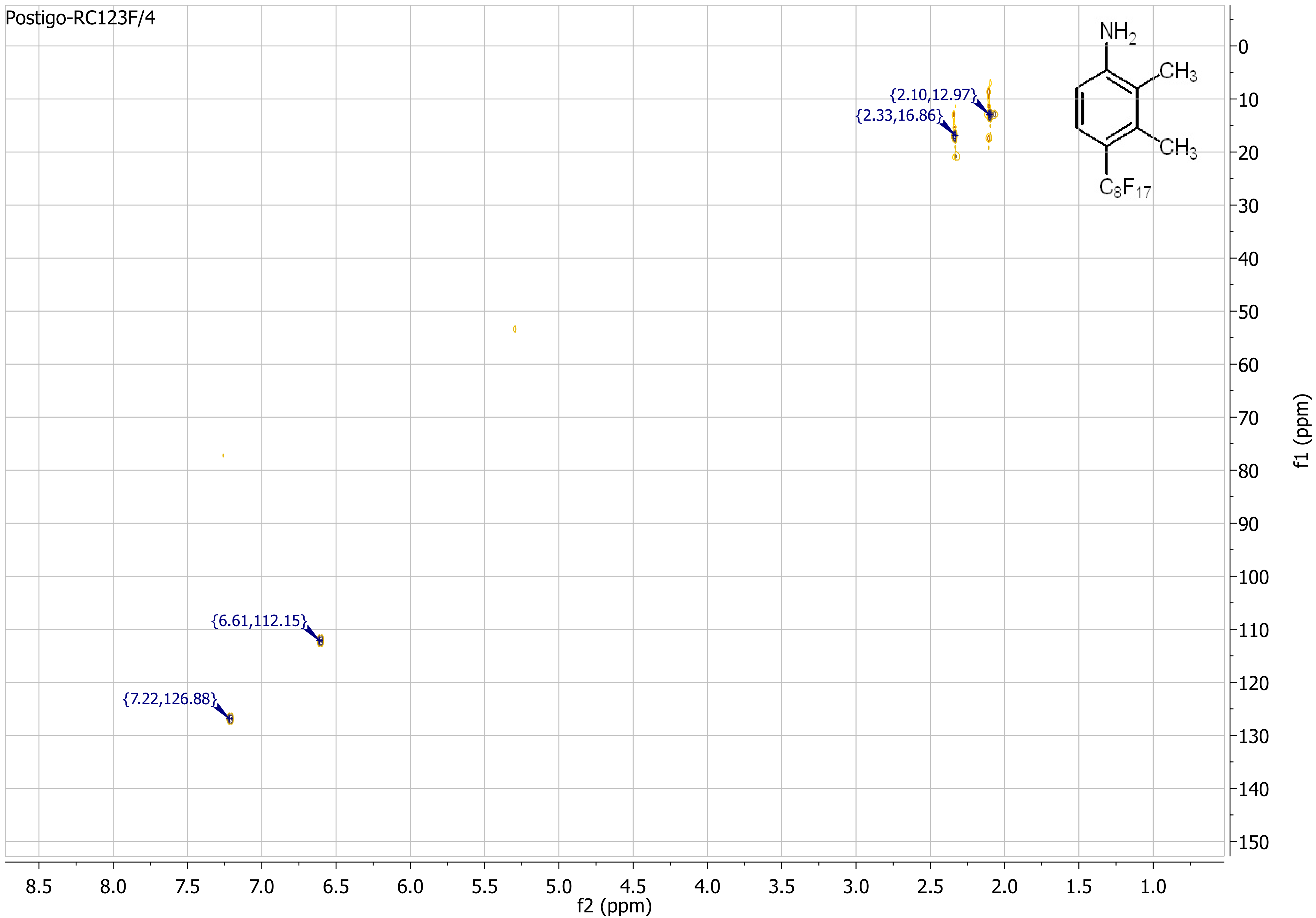
Postigo-RC123F/2
117.35
117.21
117.06
112.31
NH2
CH3
CH3
C8F17
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
118.5
118.0
117.5
117.0
116.5
116.0
115.5
115.0
114.5
114.0
113.5
113.0
112.5
112.0
111.5
111.0
f1 (ppm)

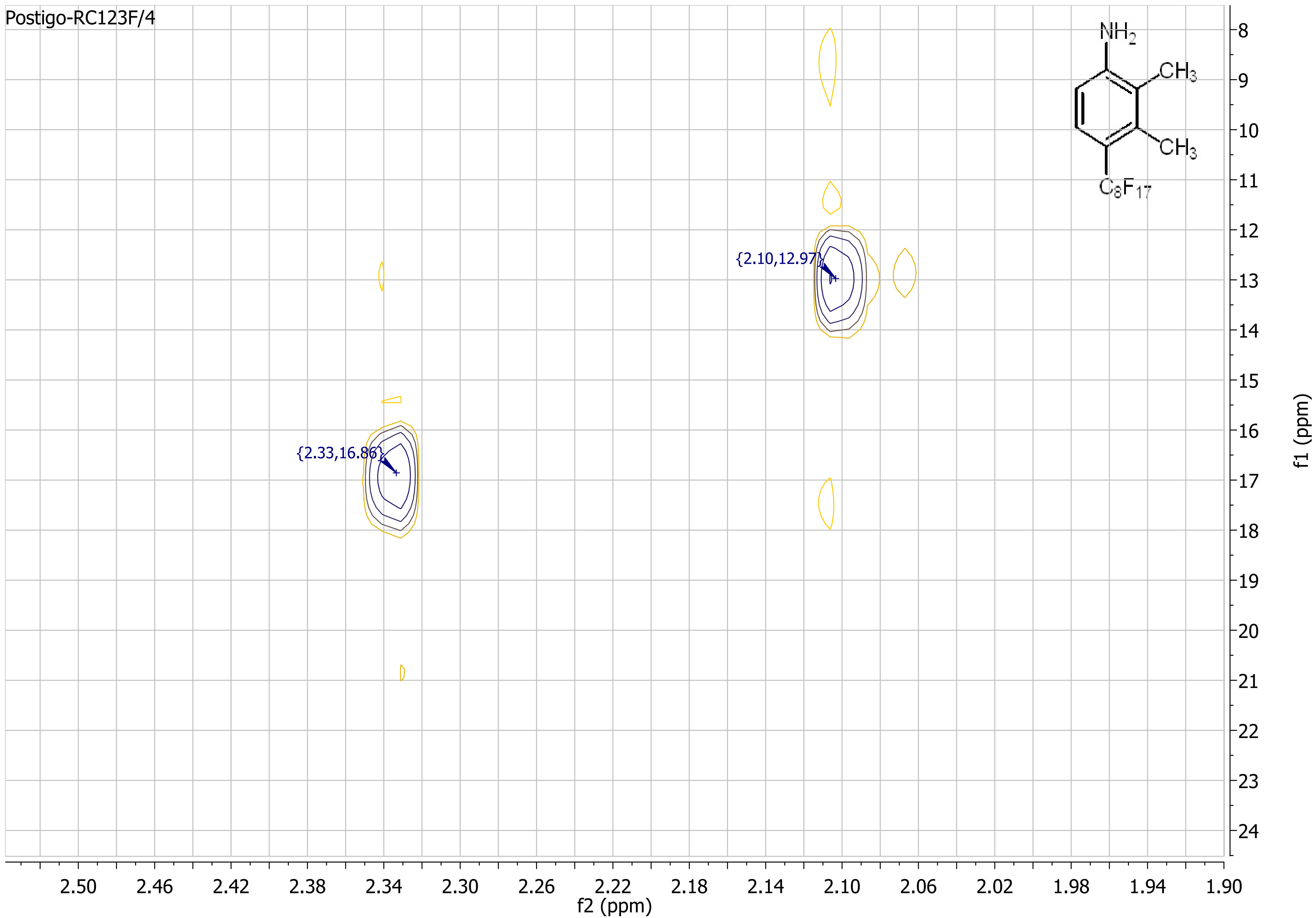


Postigo-RC123F/2
127.15
127.08
127.02
121.87
NH2
CH3
CH3
C8F17
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
129.5 129.0 128.5 128.0 127.5 127.0 126.5 126.0 125.5 125.0 124.5 124.0 123.5 123.0 122.5 122.0 121.5 121.0 120.5 120.0
f1 (ppm)

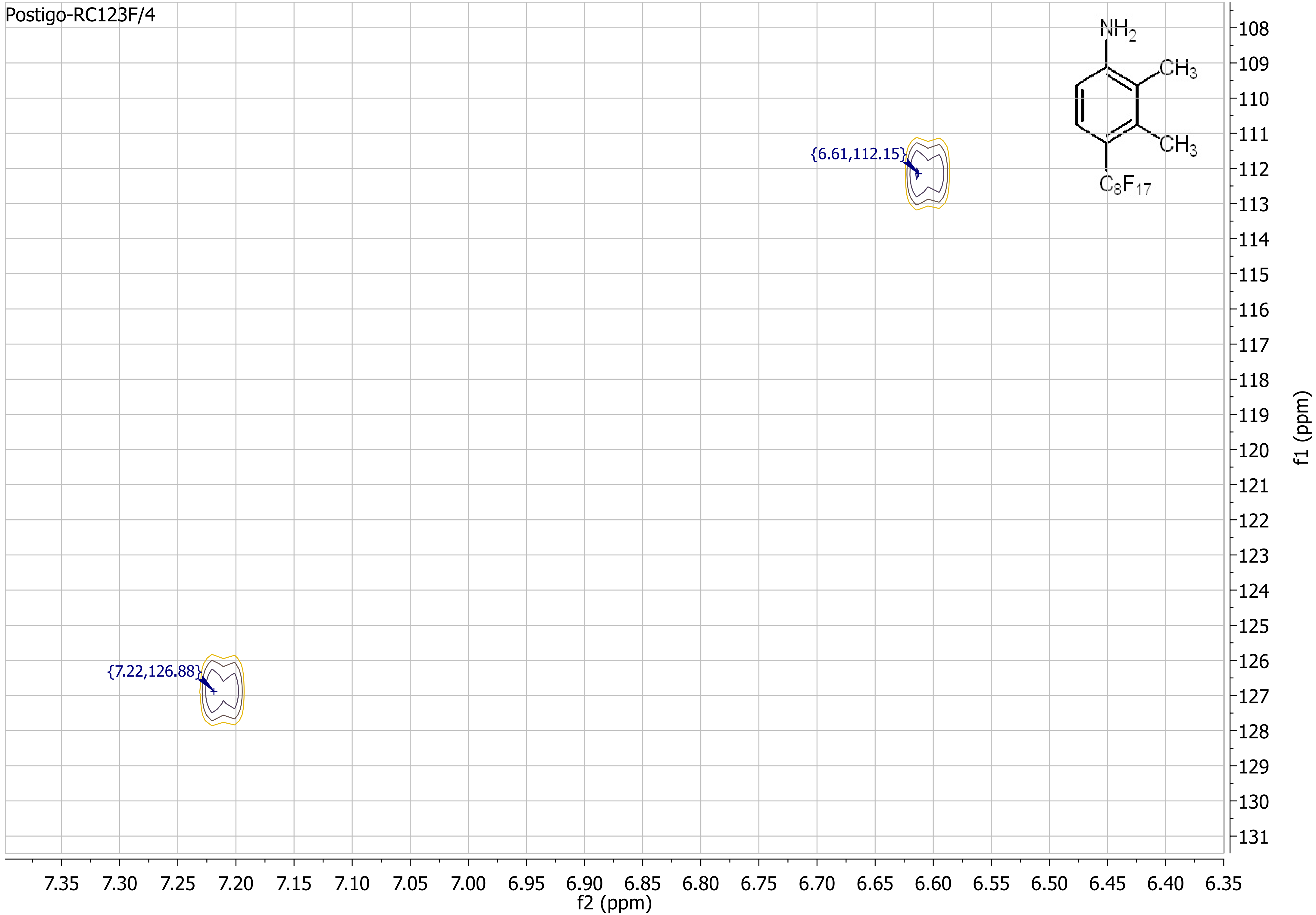


Postigo-RC123F/2
147.64
137.65
NH2
CH3
CH3
C8F17
1000
900
800
700
600
500
400
300
200
100
0
152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134
f1 (ppm)

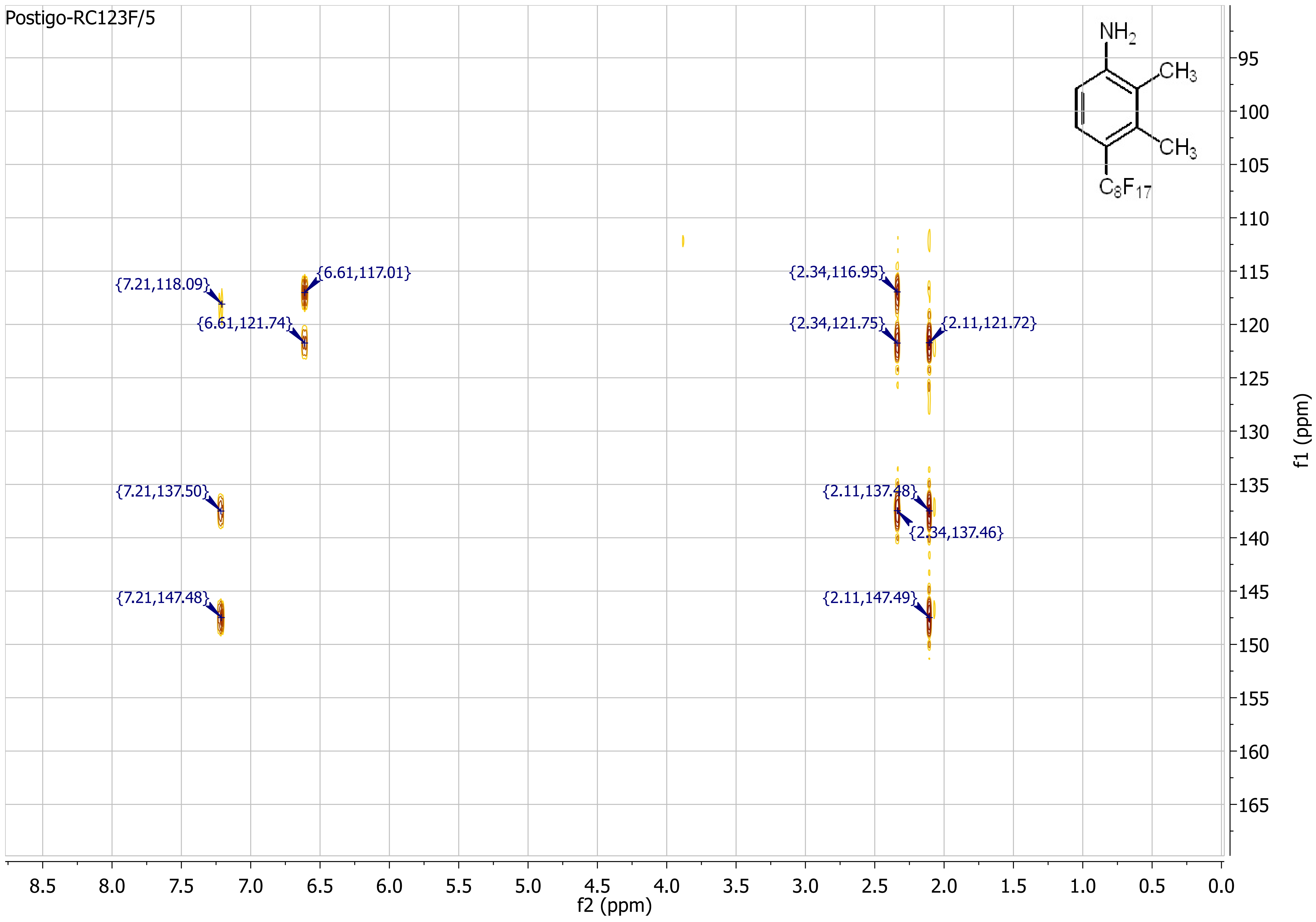

Postigo-RC123F/4
NH_2
CH_3
CH_3
C_8F_{17}
{2.10,12.97}
{2.33,16.86}
{6.61,112.15}
{7.22,126.88}
f2 (ppm)
f1 (ppm)

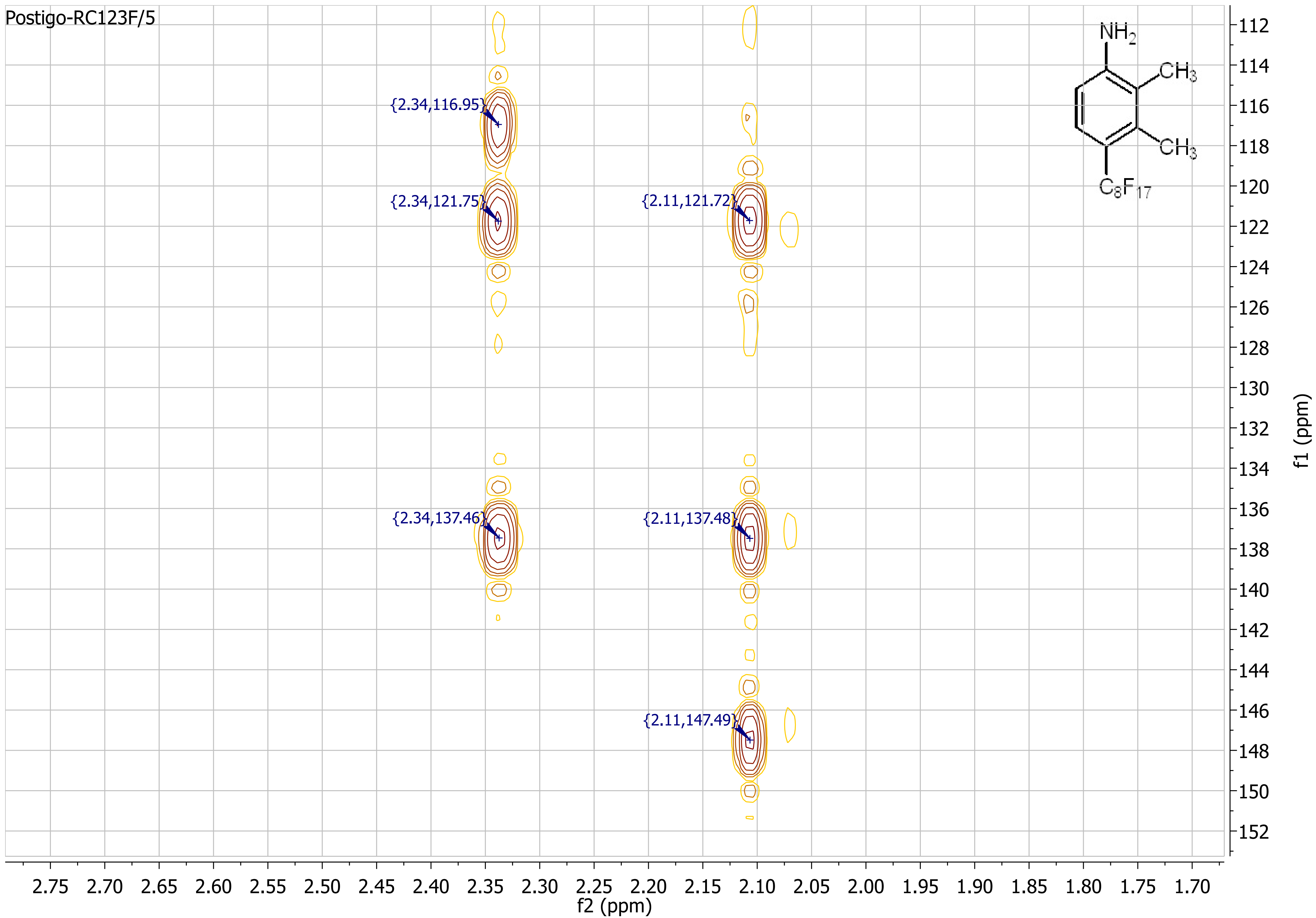


Postigo-RC123F/4
NH2
CH3
CH3
C8F17
{2.10,12.97}
{2.33,16.86}
f2 (ppm)
f1 (ppm)

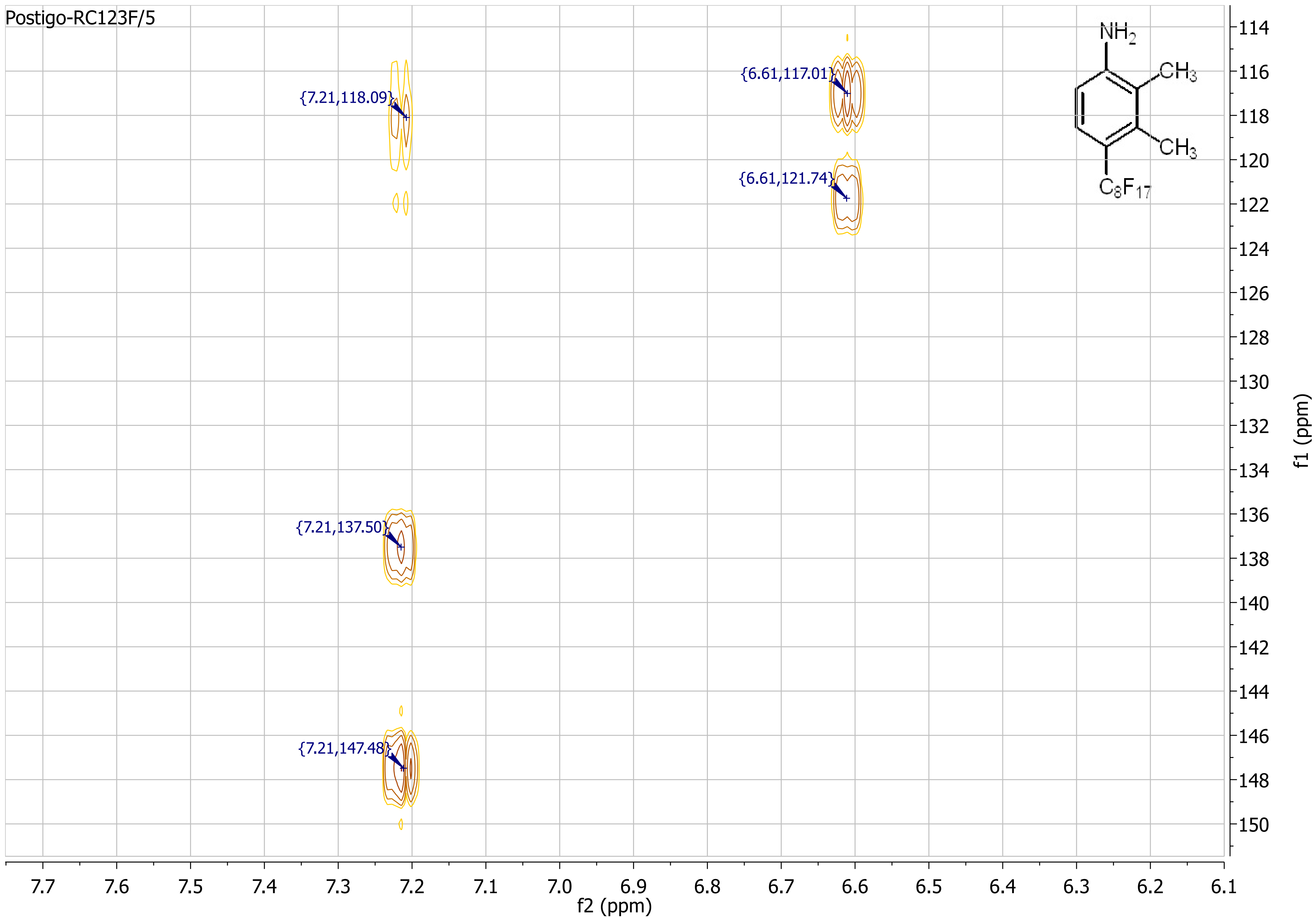


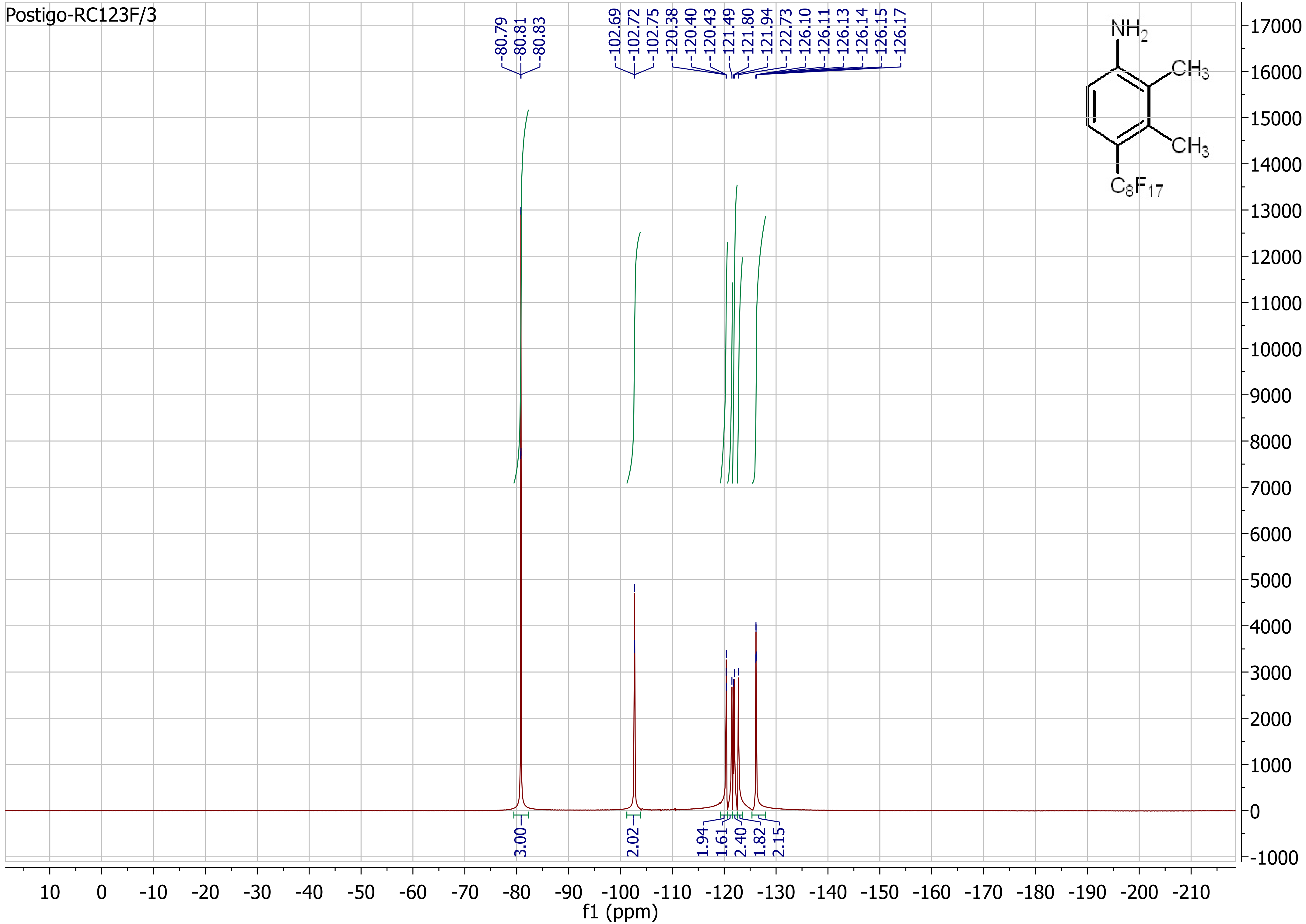
Postigo-RC123F/4
NH2
CH3
CH3
C8F17
{6.61,112.15}
{7.22,126.88}
f2 (ppm)
f1 (ppm)


Postigo-RC123F/5
NH2
CH3
CH3
C8F17
{7.21,118.09}
{6.61,117.01}
{6.61,121.74}
{2.34,116.95}
{2.34,121.75}
{2.11,121.72}
{7.21,137.50}
{2.11,137.48}
{2.34,137.46}
{7.21,147.48}
{2.11,147.49}
f2 (ppm)
f1 (ppm)

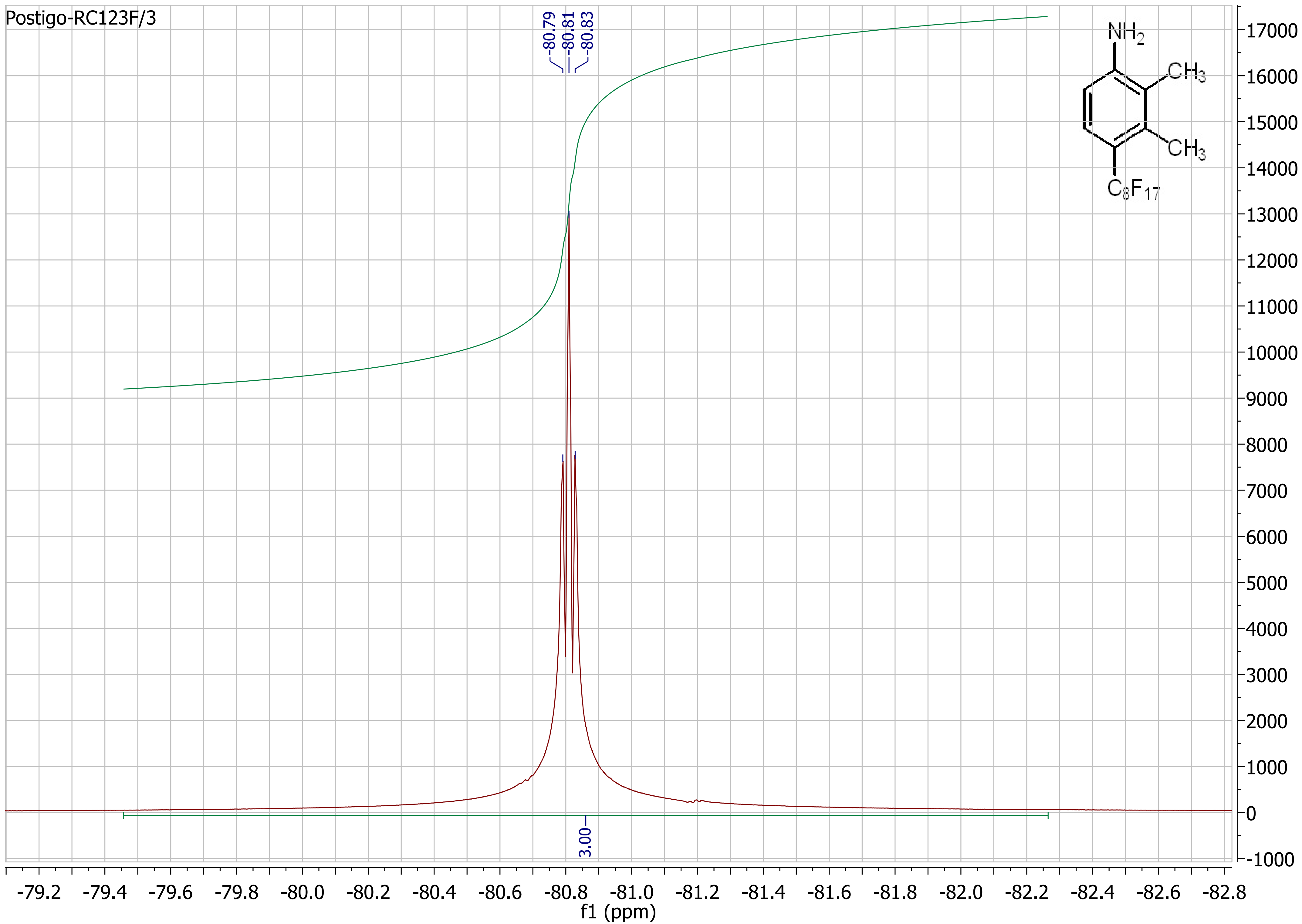


Postigo-RC123F/5
NH2
CH3
CH3
C8F17
{2.34,116.95}
{2.34,121.75}
{2.11,121.72}
{2.34,137.46}
{2.11,137.48}
{2.11,147.49}
f2 (ppm)
f1 (ppm)

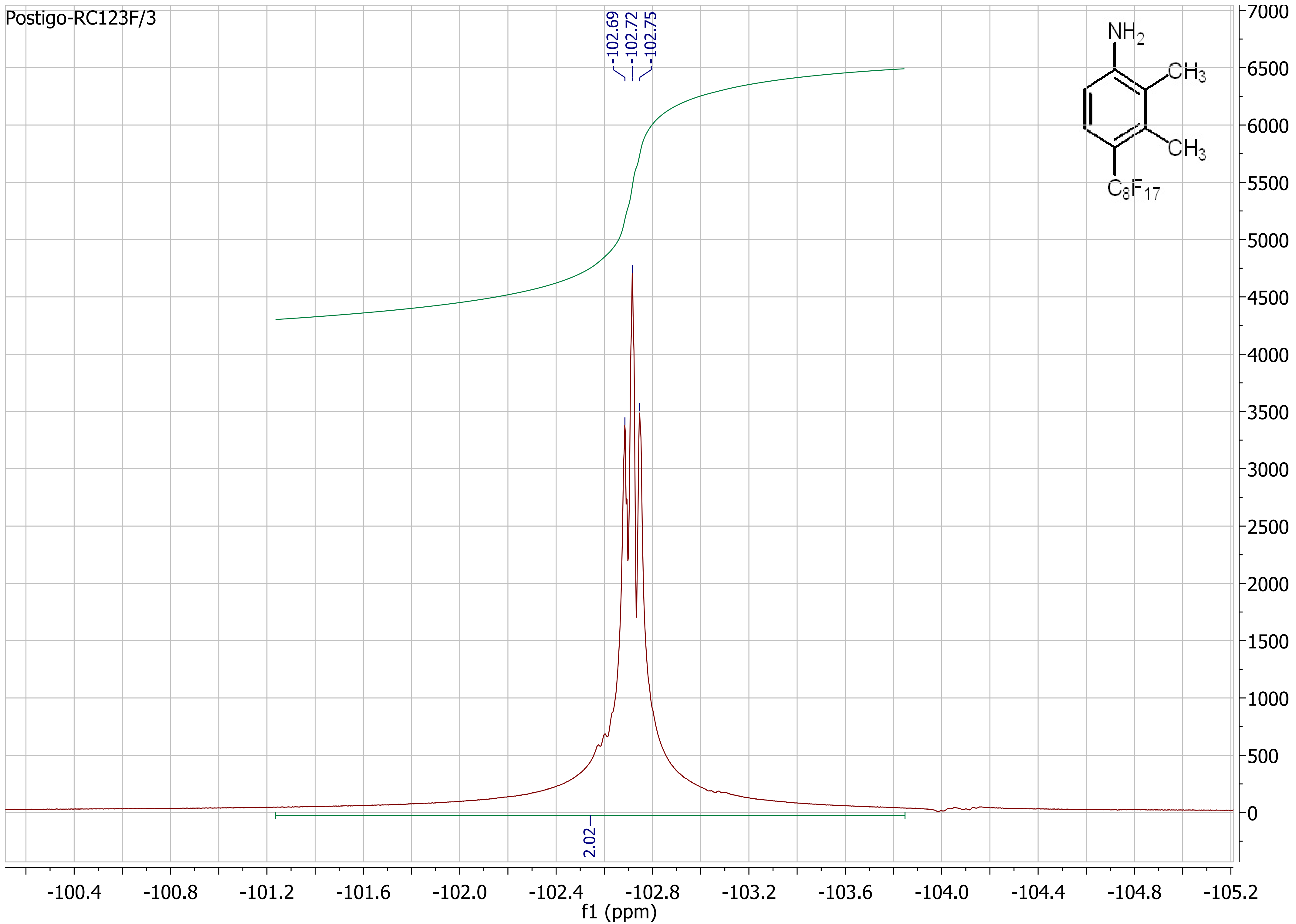

Postigo-RC123F/5
{7.21,118.09}
{6.61,117.01}
{6.61,121.74}
{7.21,137.50}
{7.21,147.48}
NH2
CH3
CH3
C8F17
f2 (ppm)
f1 (ppm)



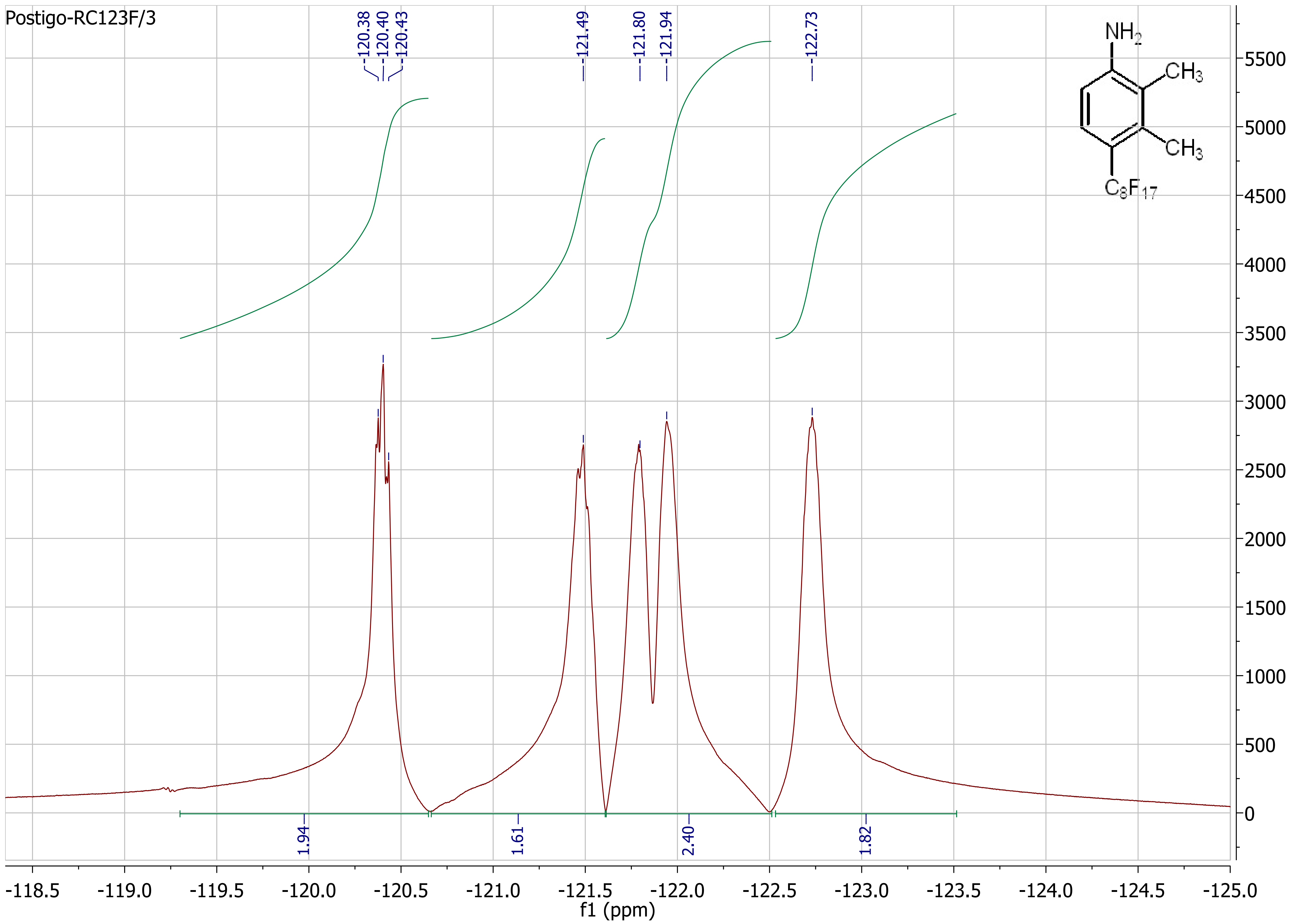
Postigo-RC123F/3
-80.79
-80.81
-80.83
-102.69
-102.72
-102.75
-120.38
-120.40
-120.43
-121.49
-121.80
-121.94
-122.73
-126.10
-126.11
-126.13
-126.14
-126.15
-126.17
NH2
CH3
CH3
C8F17
3.00
2.02
1.94
1.61
2.40
1.82
2.15
f1 (ppm)



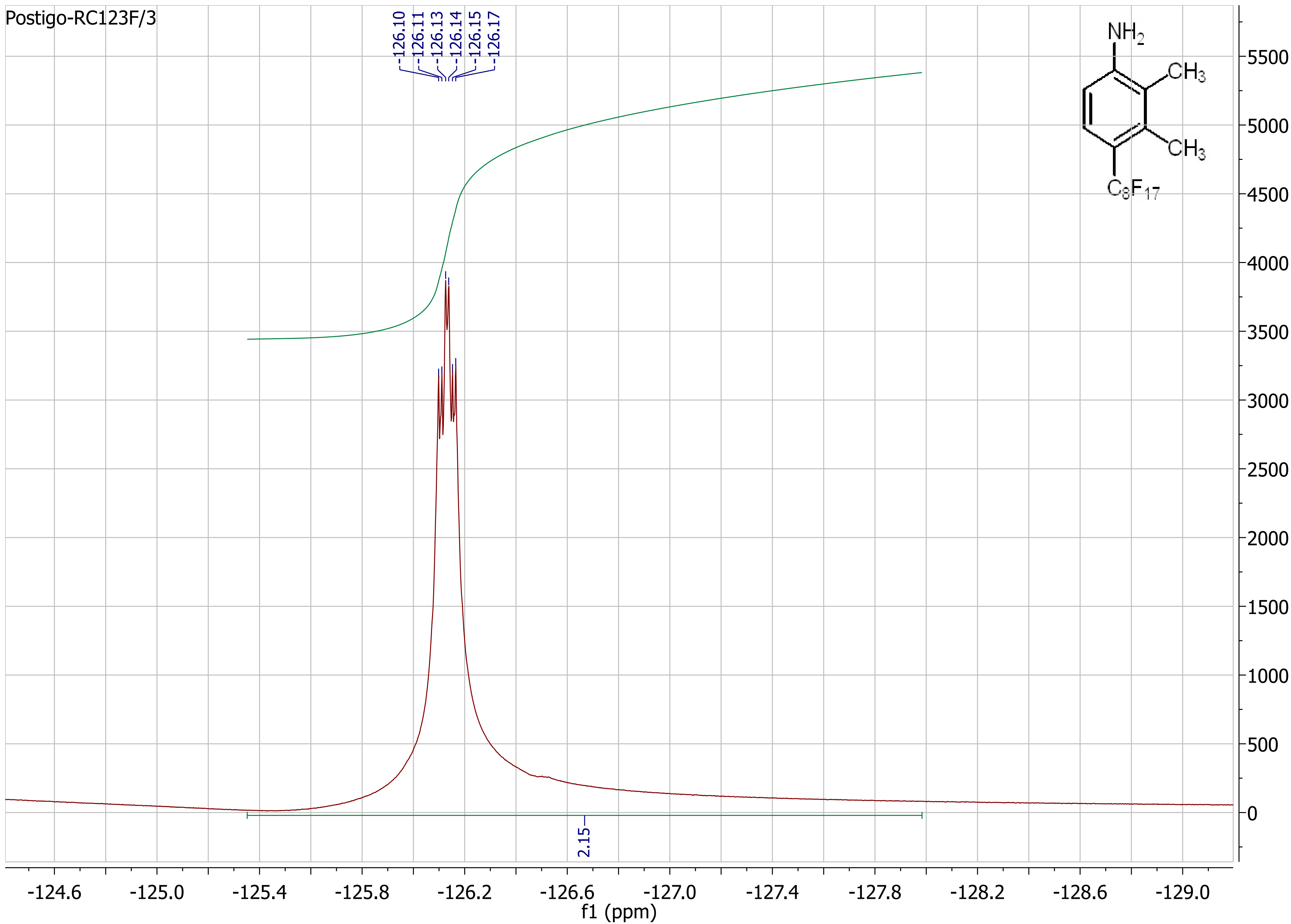
Postigo-RC123F/3
-80.79
-80.81
-80.83
NH2
CH3
CH3
C8F17
3.00
17000
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-1000
-79.2
-79.4
-79.6
-79.8
-80.0
-80.2
-80.4
-80.6
-80.8
-81.0
-81.2
-81.4
-81.6
-81.8
-82.0
-82.2
-82.4
-82.6
-82.8
f1 (ppm)



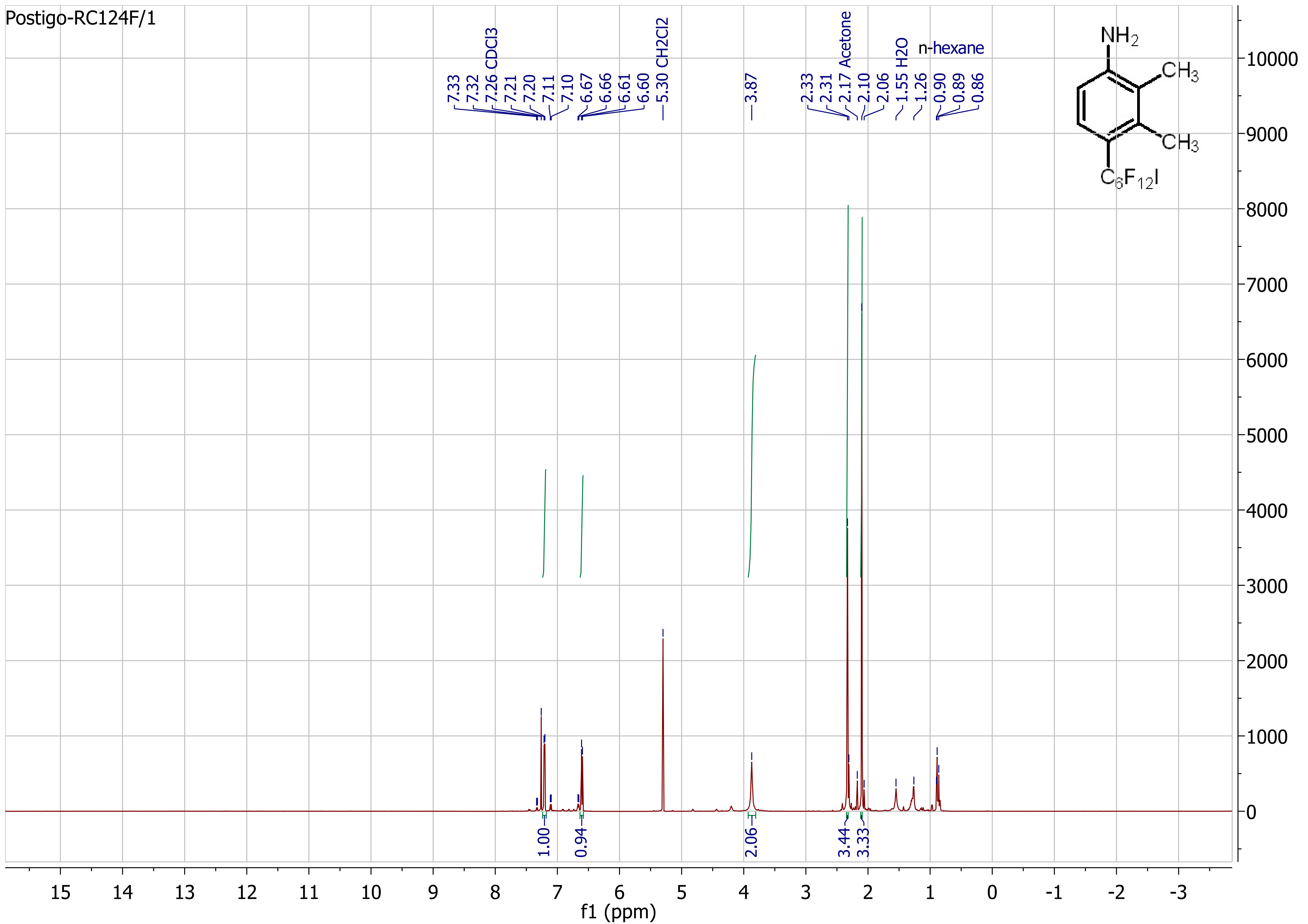
Postigo-RC123F/3
-102.69
-102.72
-102.75
NH2
CH3
CH3
C8F17
2.02
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-100.4
-100.8
-101.2
-101.6
-102.0
-102.4
-102.8
-103.2
-103.6
-104.0
-104.4
-104.8
-105.2
f1 (ppm)



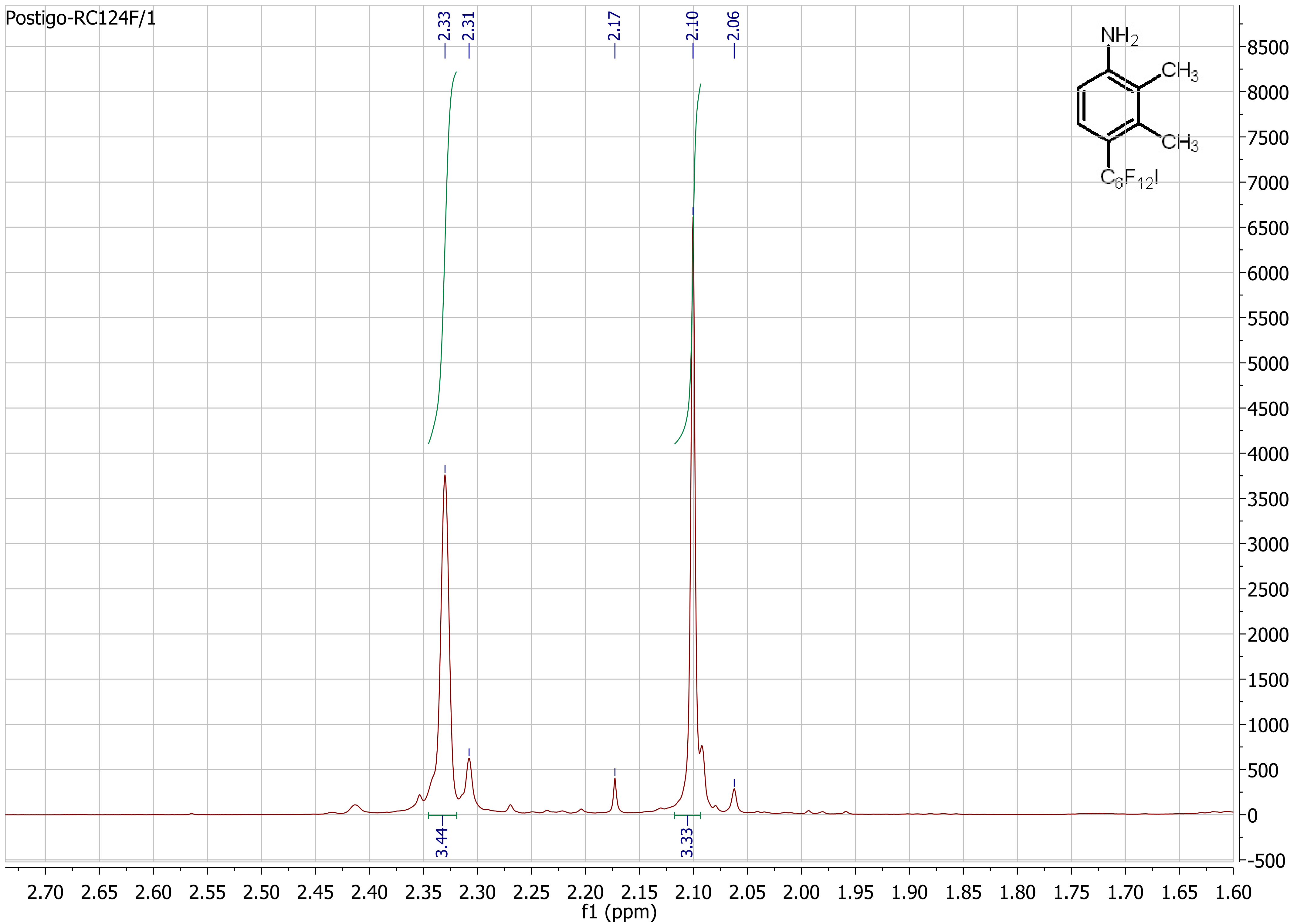
Postigo-RC123F/3
-120.38
-120.40
-120.43
-121.49
-121.80
-121.94
-122.73
NH_2
CH_3
CH_3
C_8F_{17}
1.94
1.61
2.40
1.82
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-118.5
-119.0
-119.5
-120.0
-120.5
-121.0
-121.5
-122.0
-122.5
-123.0
-123.5
-124.0
-124.5
-125.0
f1 (ppm)



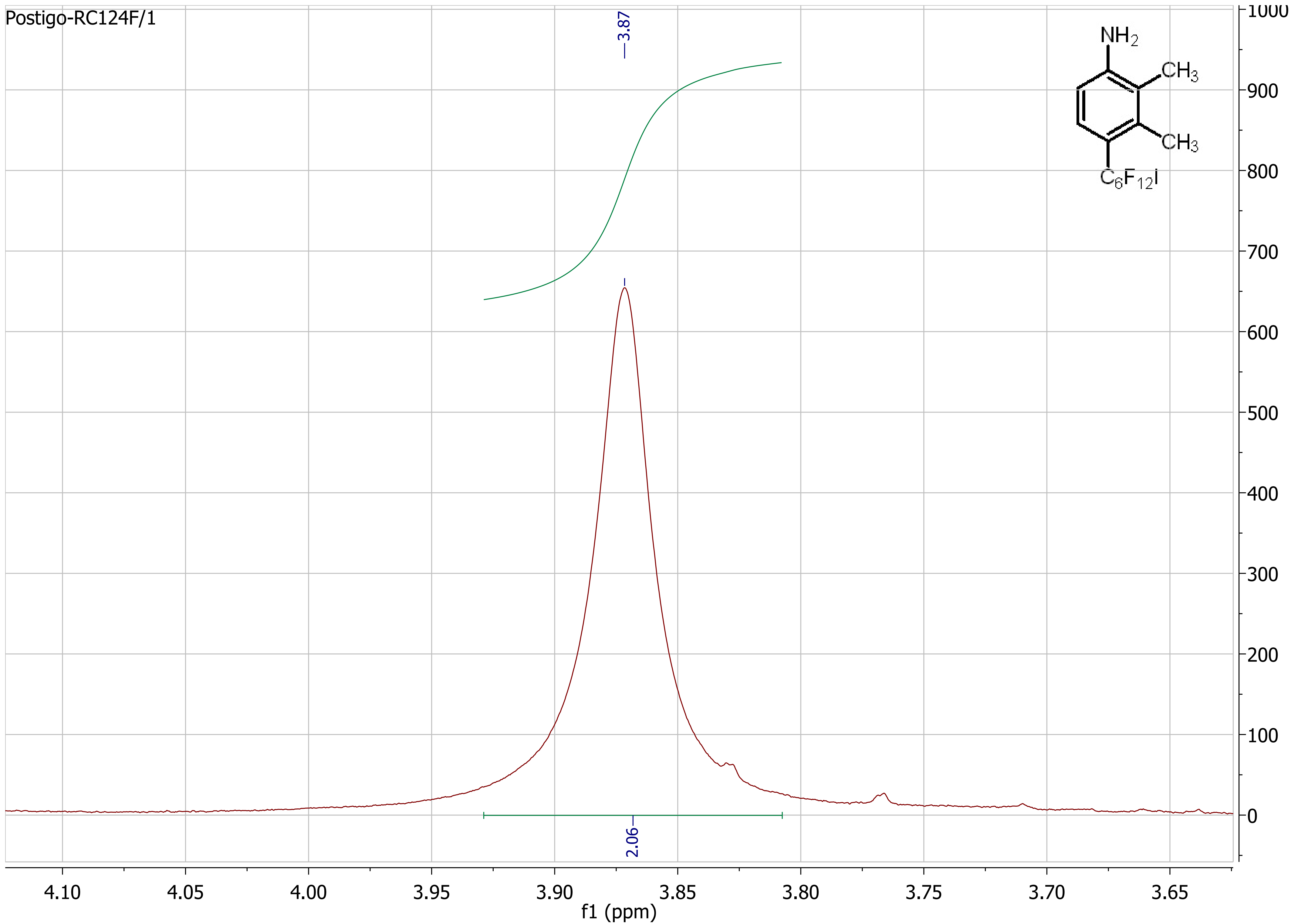
Postigo-RC123F/3
-126.10
-126.11
-126.13
-126.14
-126.15
-126.17
NH2
CH3
CH3
C8F17
2.15
f1 (ppm)



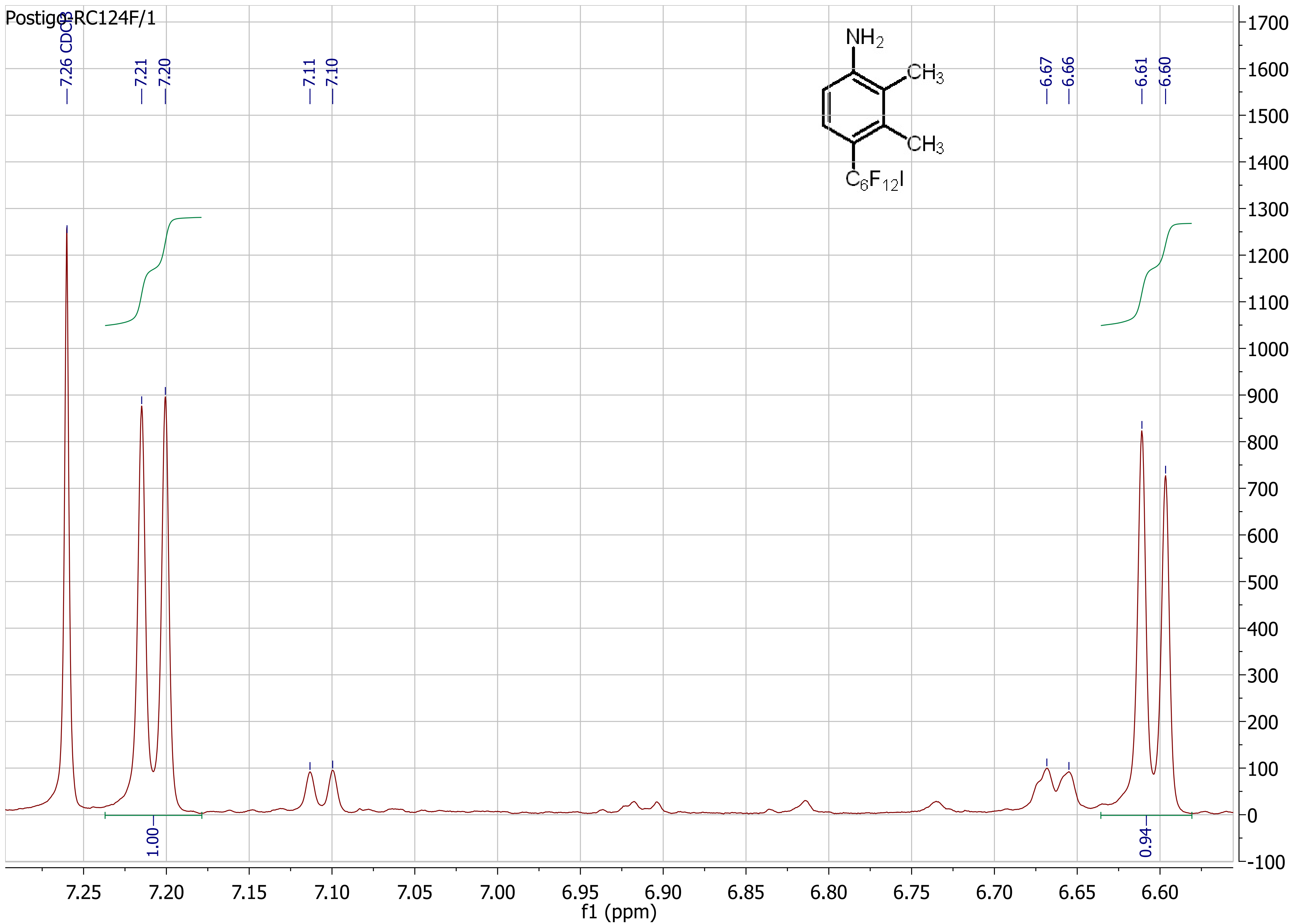
Postigo-RC124F/1
7.33
7.32
7.26 CDCl3
7.21
7.20
7.11
7.10
6.67
6.66
6.61
6.60
5.30 CH2Cl2
3.87
2.33
2.31
2.17 Acetone
2.10
2.06
1.55 H2O
1.26
0.90
0.89
0.86
n-hexane
NH2
CH3
CH3
C6F12I
1.00
0.94
2.06
3.44
3.33
f1 (ppm)

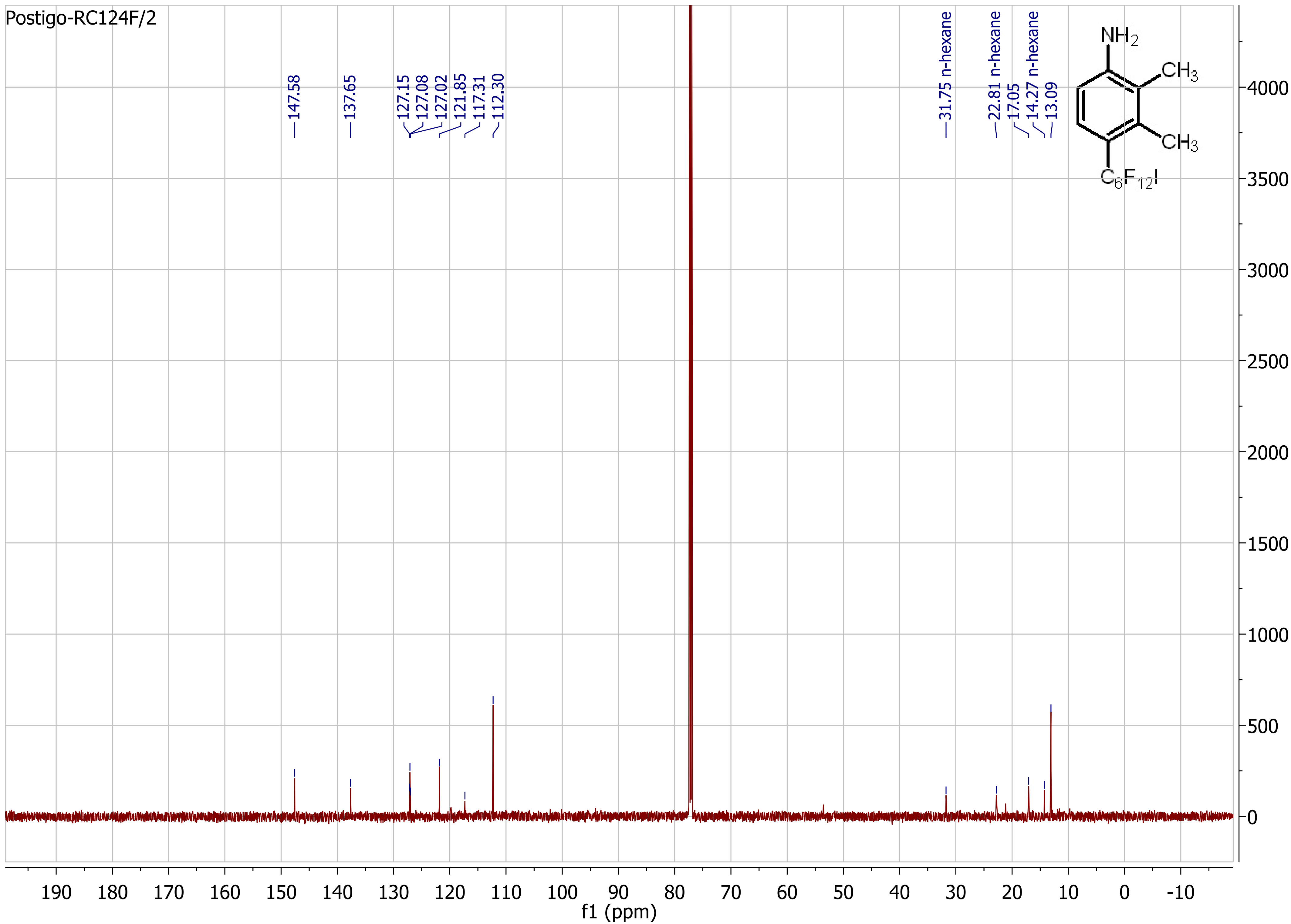


Postigo-RC124F/1
2.33
2.31
2.17
2.10
2.06
NH_2
CH_3
CH_3
$C_6F_{12}I$
3.44
3.33
f1 (ppm)

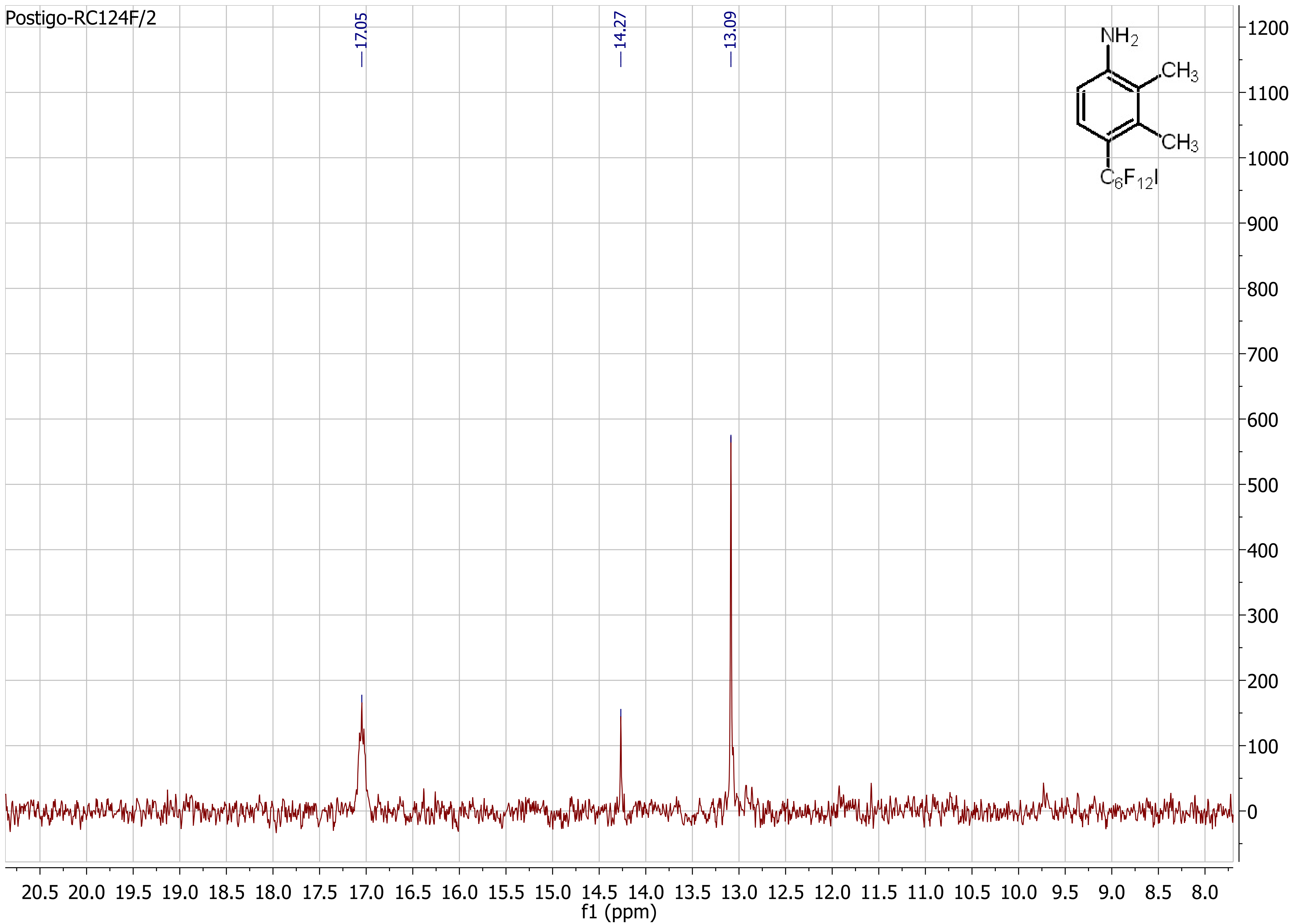


Postigo-RC124F/1
3.87
2.06
NH2
CH3
CH3
C6F12I
1000
900
800
700
600
500
400
300
200
100
0
4.10
4.05
4.00
3.95
3.90
3.85
3.80
3.75
3.70
3.65
f1 (ppm)

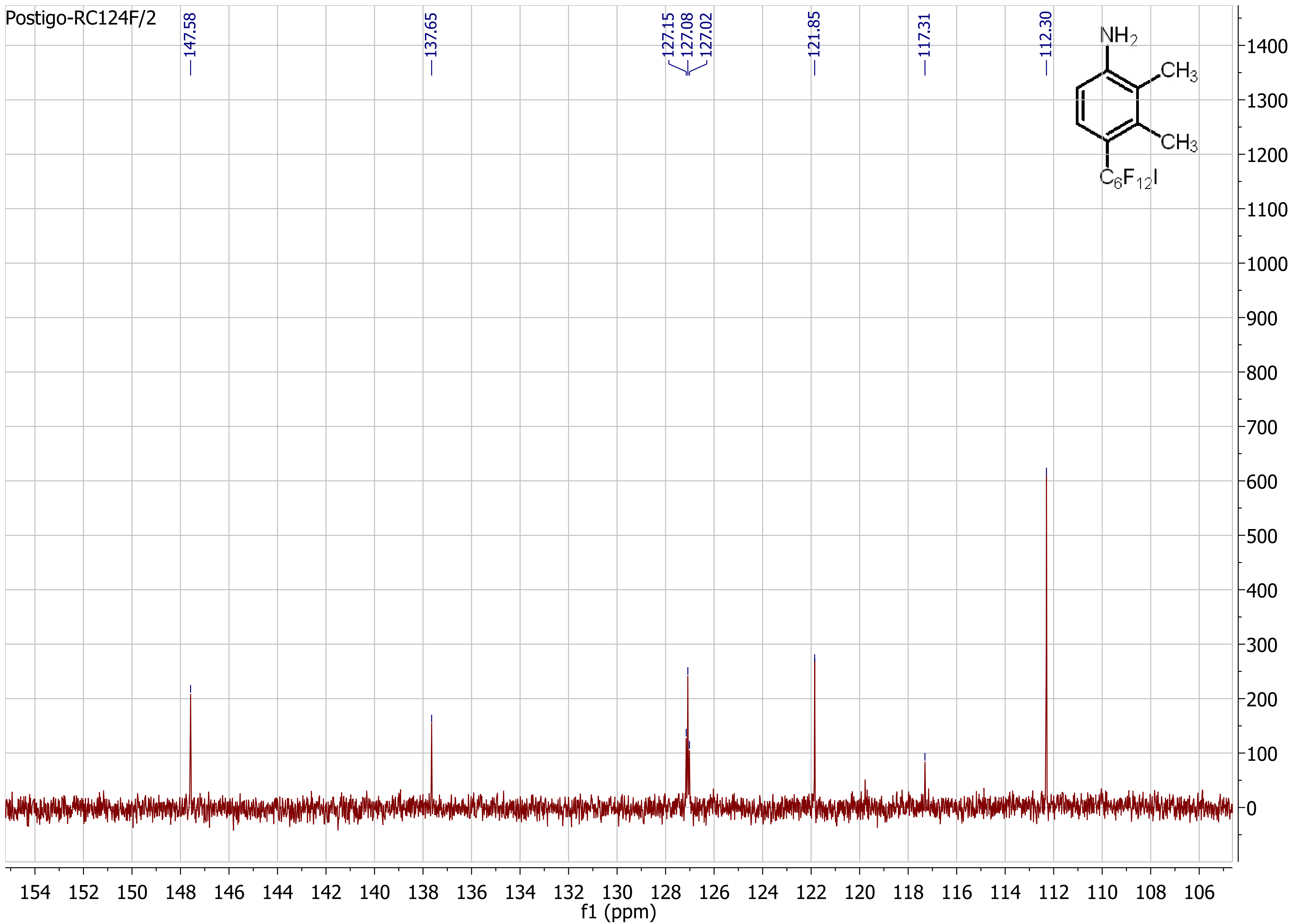

Postigo-RC124F/1
7.26 CDCl3
7.21
7.20
7.11
7.10
6.67
6.66
6.61
6.60
NH2
CH3
CH3
C6F12I
1.00
0.94
f1 (ppm)

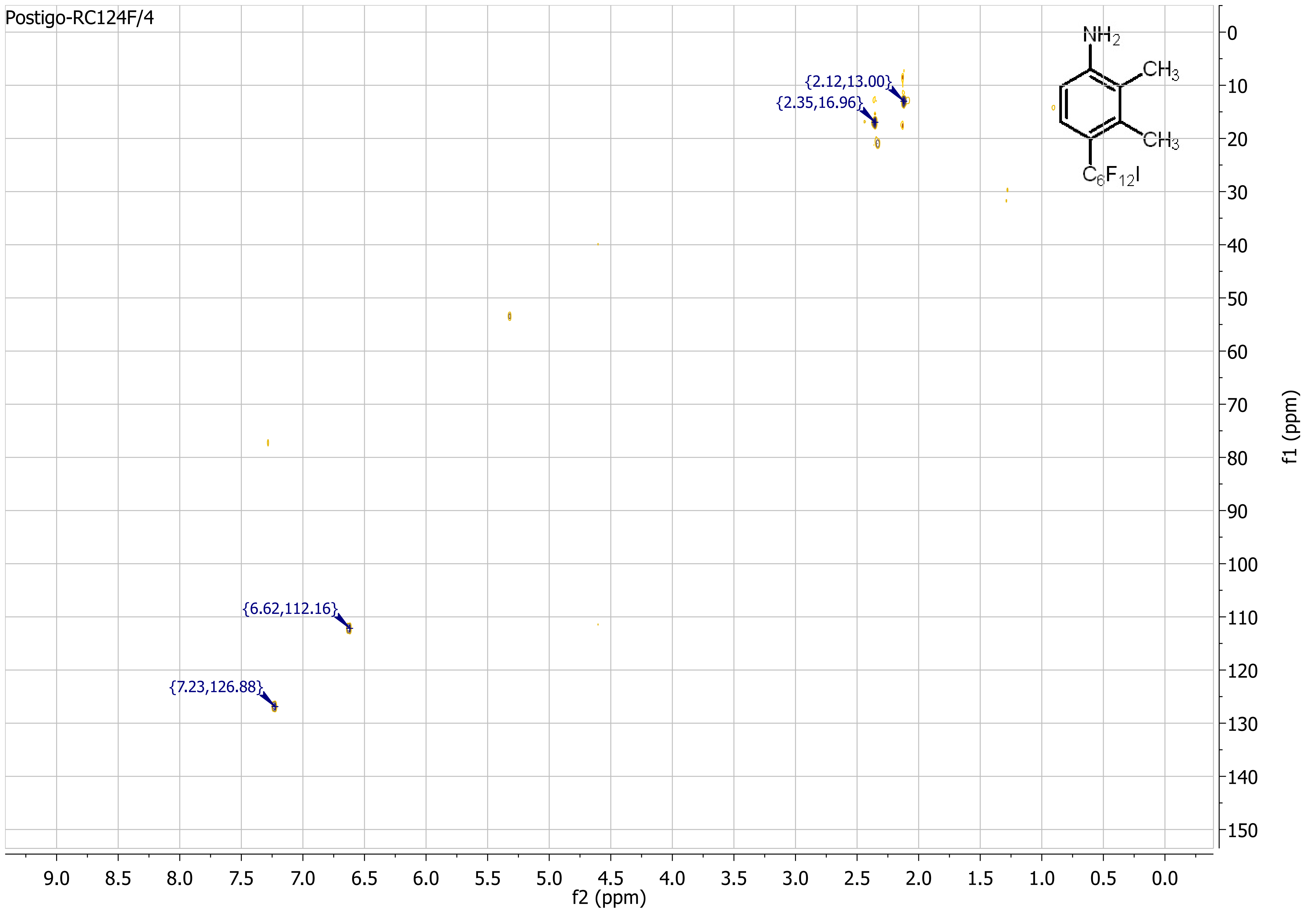


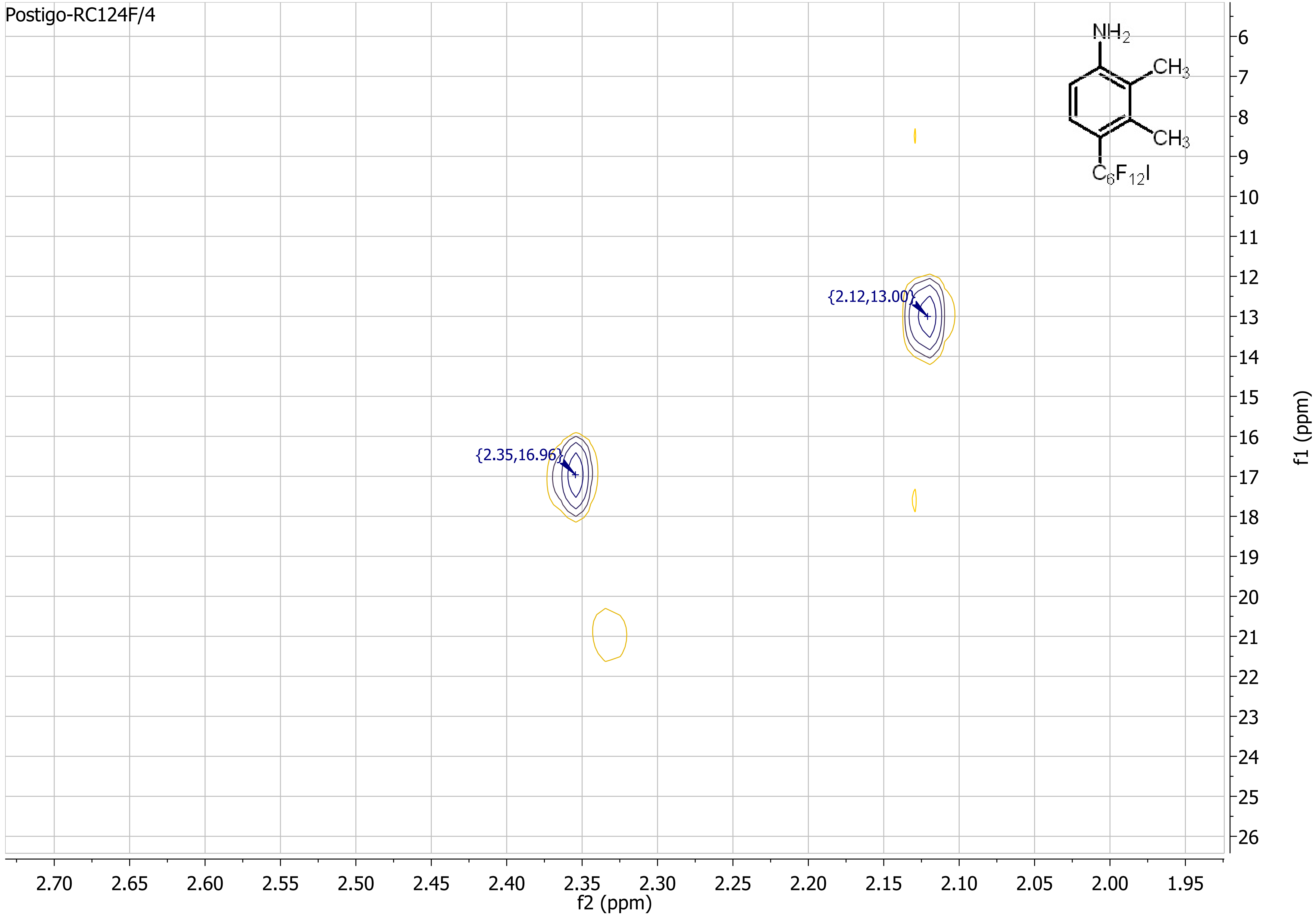
Postigo-RC124F/2
147.58
137.65
127.15
127.08
127.02
121.85
117.31
112.30
31.75 n-hexane
22.81 n-hexane
17.05
14.27 n-hexane
13.09
NH2
CH3
CH3
C6F12I
f1 (ppm)

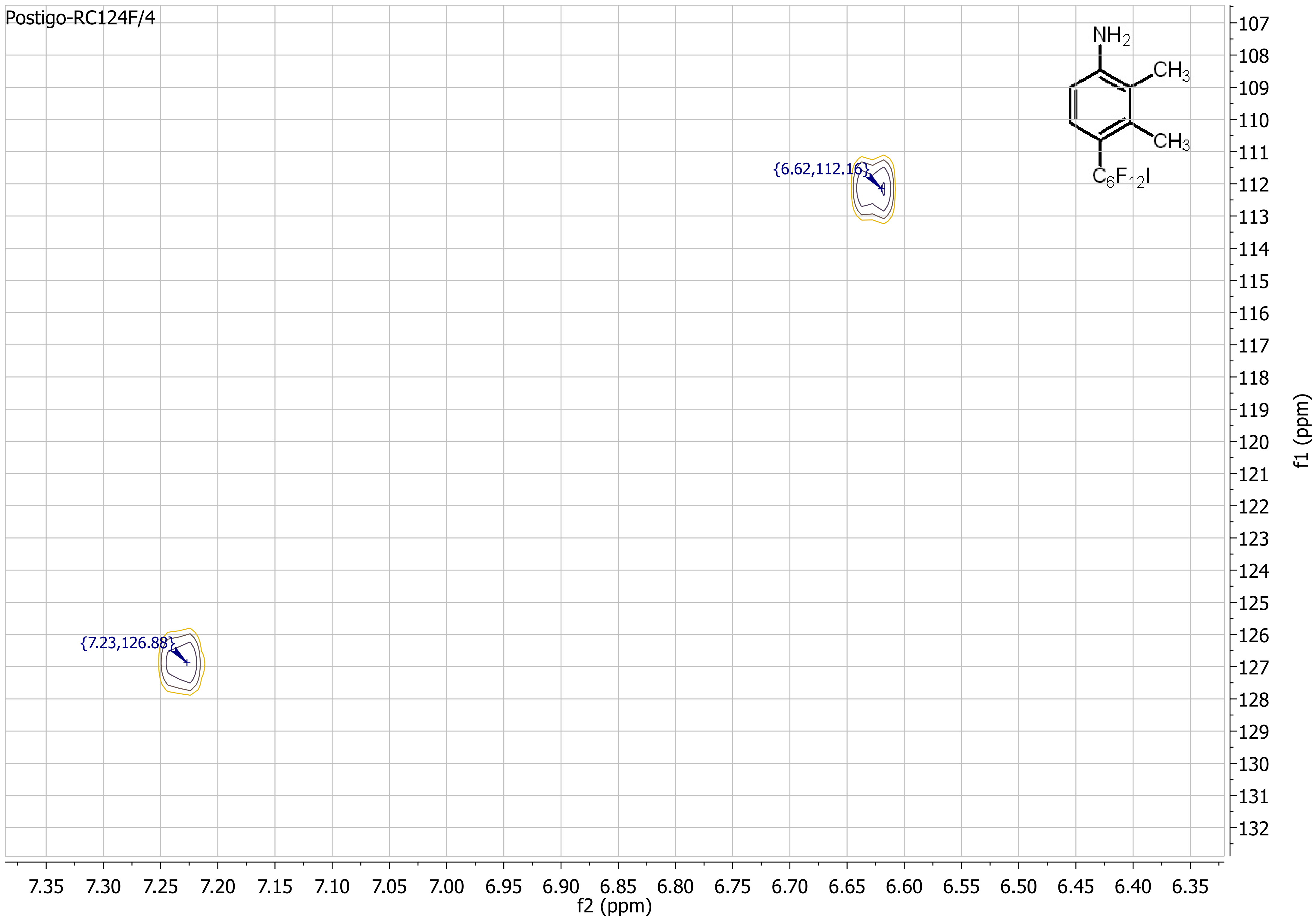


Postigo-RC124F/2
17.05
14.27
13.09
NH2
CH3
CH3
C6F12I
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
20.5 20.0 19.5 19.0 18.5 18.0 17.5 17.0 16.5 16.0 15.5 15.0 14.5 14.0 13.5 13.0 12.5 12.0 11.5 11.0 10.5 10.0 9.5 9.0 8.5 8.0
f1 (ppm)

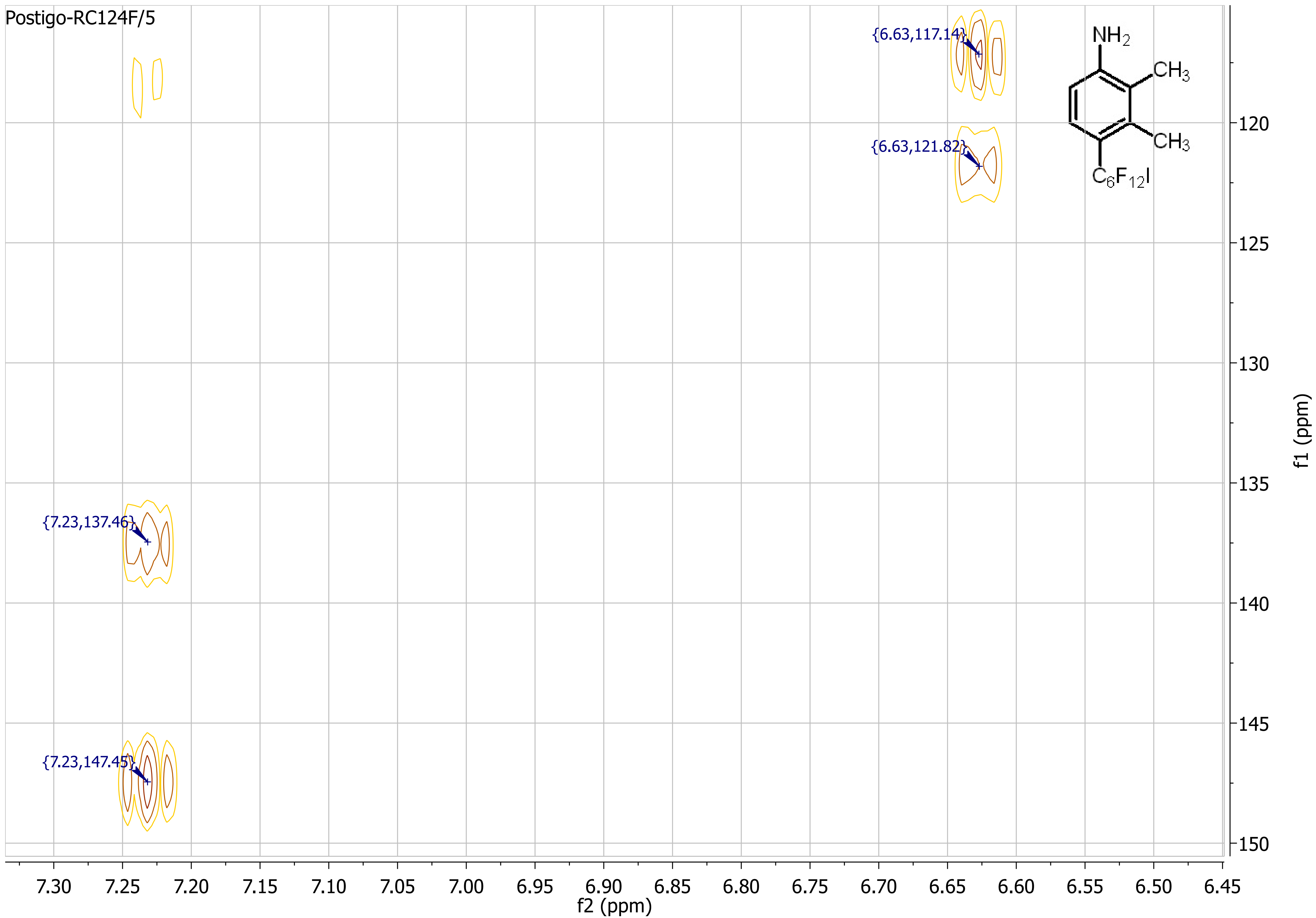

Postigo-RC124F/2
147.58
137.65
127.15
127.08
127.02
121.85
117.31
112.30
NH2
CH3
CH3
C6F12I
f1 (ppm)


Postigo-RC124F/4
{2.12,13.00}
{2.35,16.96}
{6.62,112.16}
{7.23,126.88}
NH2
CH3
CH3
C6F12I
f2 (ppm)
f1 (ppm)
9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

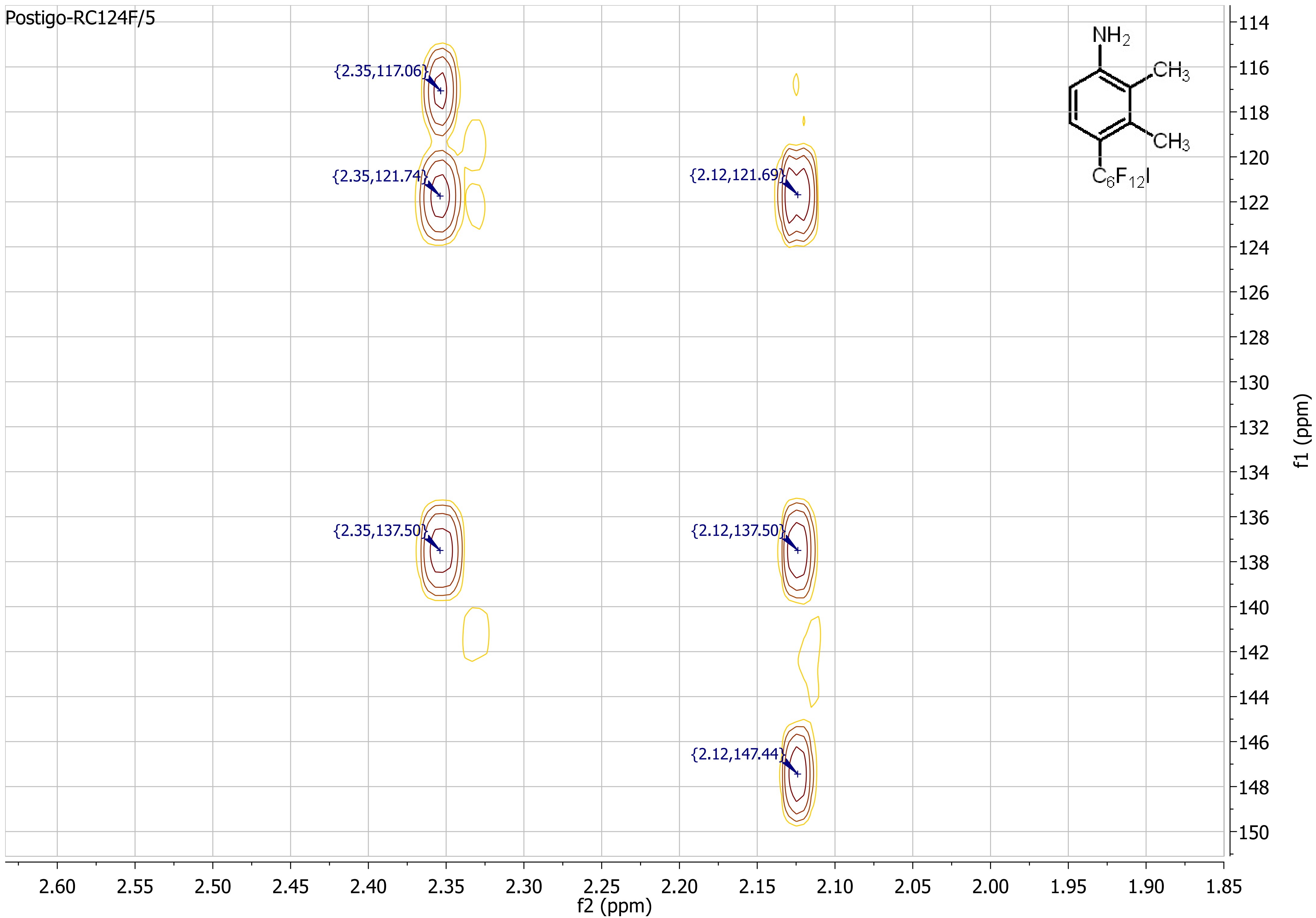

Postigo-RC124F/4
NH2
CH3
CH3
C6F12I
{2.12,13.00}
{2.35,16.96}
f2 (ppm)
f1 (ppm)
2.70 2.65 2.60 2.55 2.50 2.45 2.40 2.35 2.30 2.25 2.20 2.15 2.10 2.05 2.00 1.95
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26



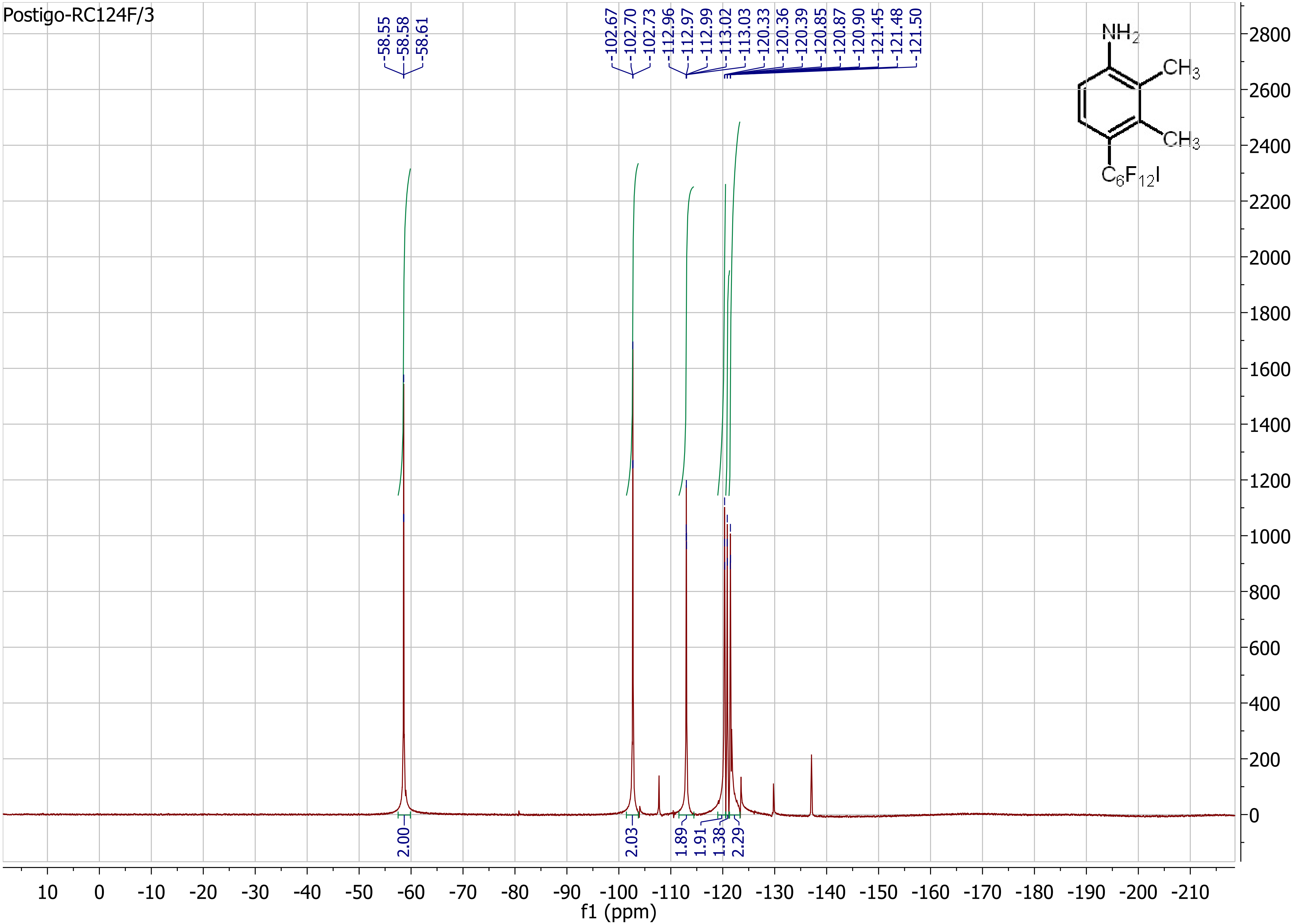
Postigo-RC124F/4
{6.62,112.16}
{7.23,126.88}
f2 (ppm)
f1 (ppm)
NH2
CH3
CH3
C6F12I



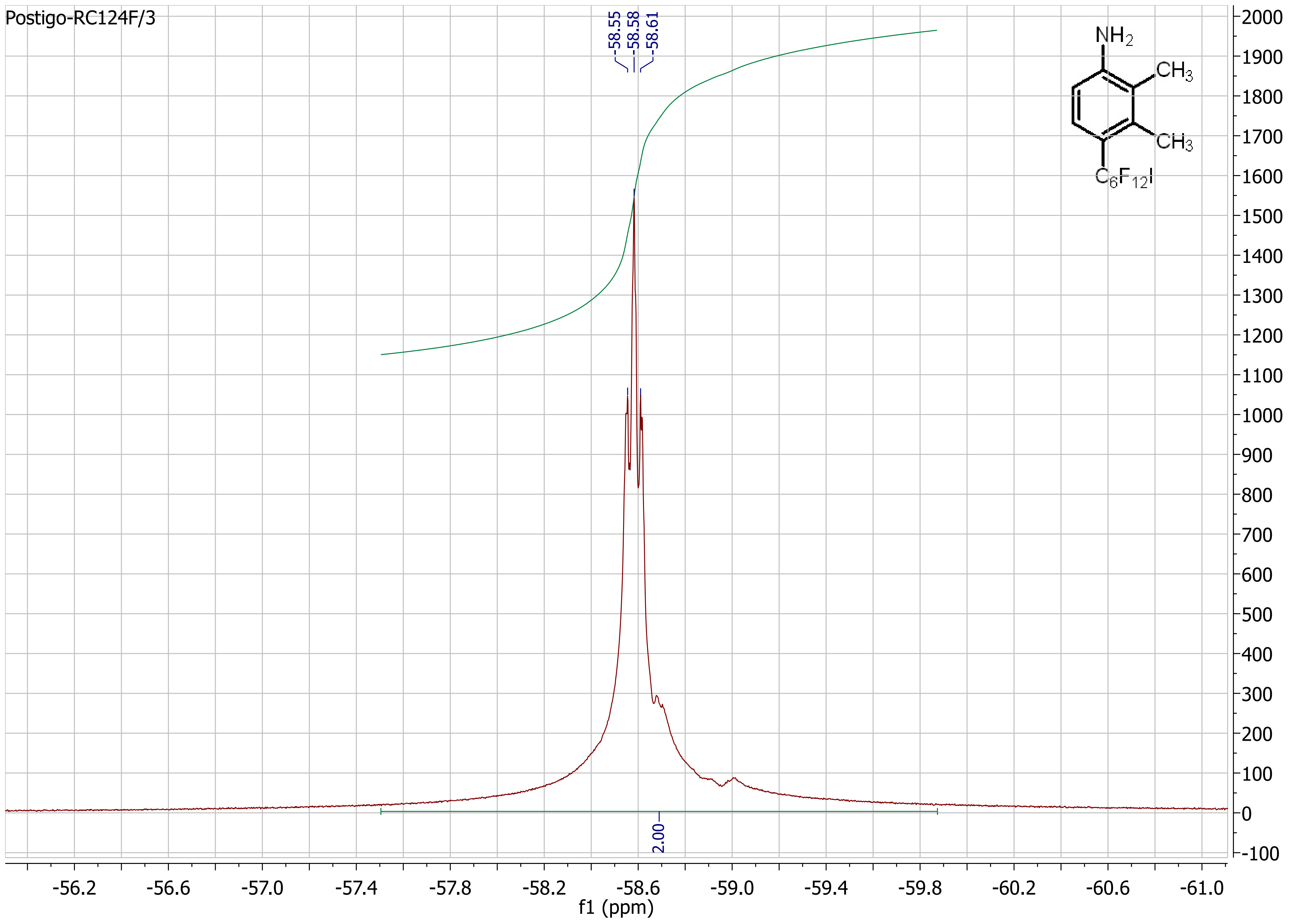
Postigo-RC124F/5
{6.63,117.14}
{6.63,121.82}
{7.23,137.46}
{7.23,147.45}
NH2
CH3
CH3
C6F12I
f1 (ppm)
f2 (ppm)



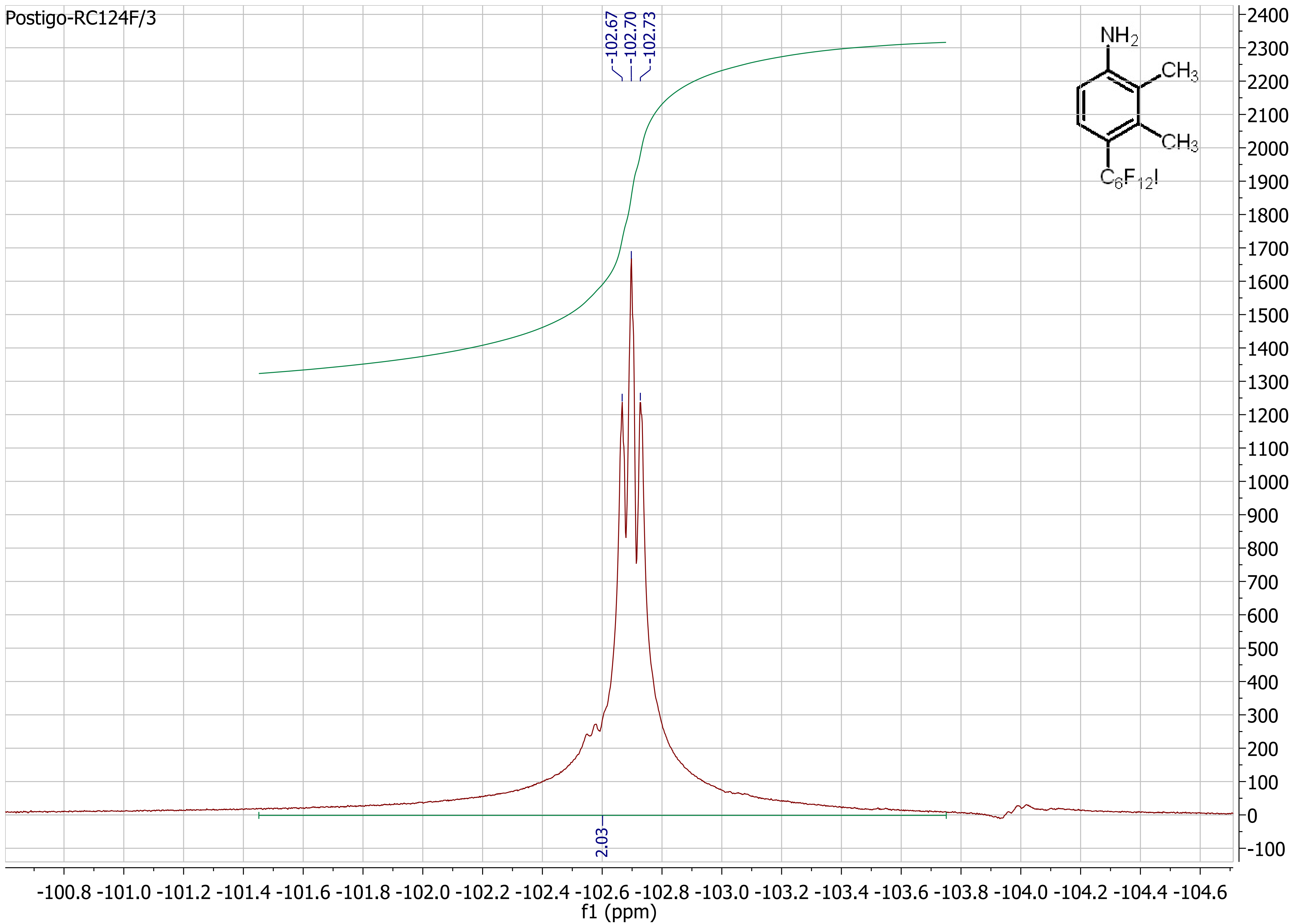
Postigo-RC124F/5
{2.35,117.06}
{2.35,121.74}
{2.12,121.69}
{2.35,137.50}
{2.12,137.50}
{2.12,147.44}
NH2
CH3
CH3
C6F12I
f2 (ppm)
f1 (ppm)



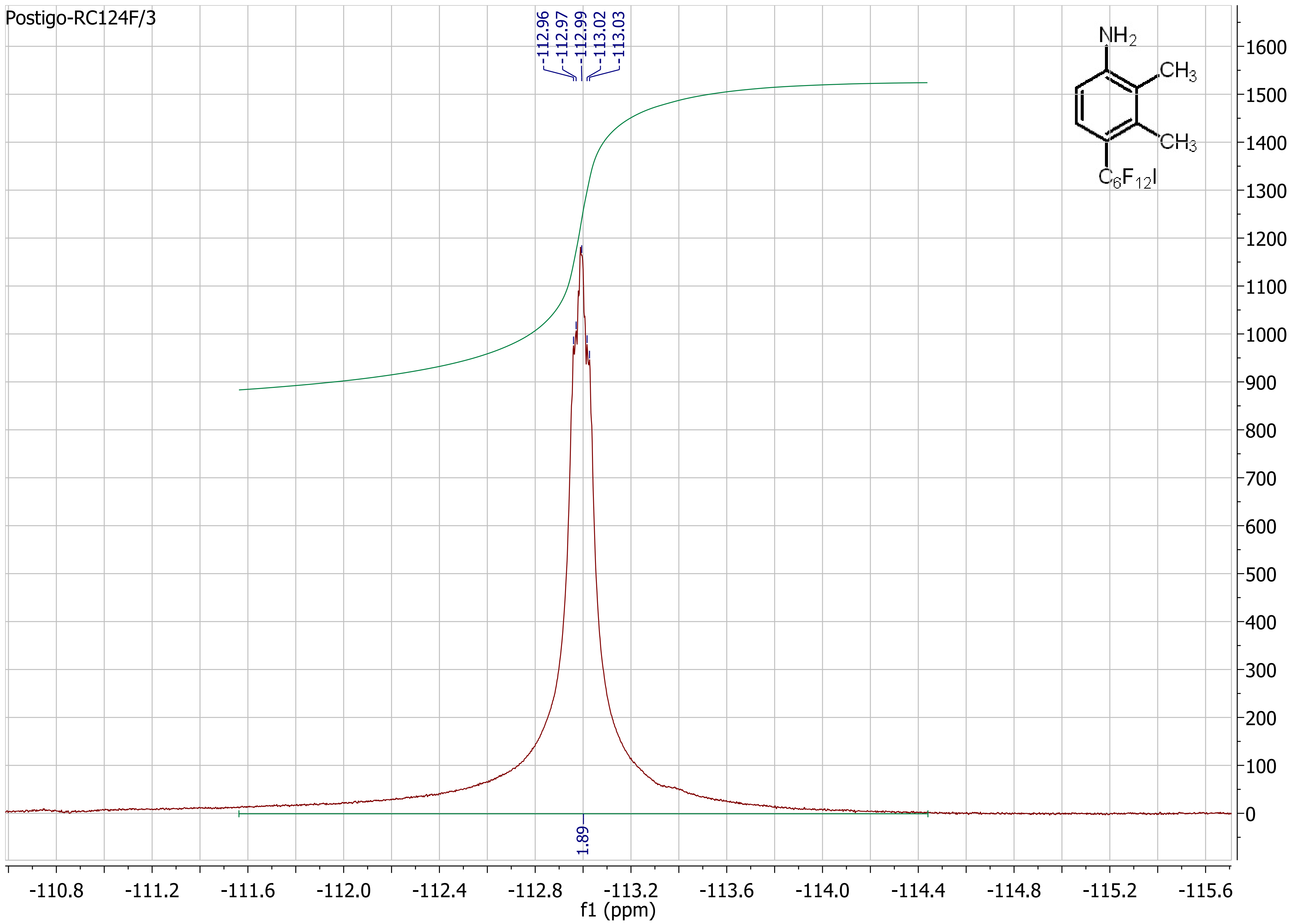
Postigo-RC124F/3
-58.55
-58.58
-58.61
-102.67
-102.70
-102.73
-112.96
-112.97
-112.99
-113.02
-113.03
-120.33
-120.36
-120.39
-120.85
-120.87
-120.90
-121.45
-121.48
-121.50
NH2
CH3
CH3
C6F12I
2.00
2.03
1.89
1.91
1.38
2.29
f1 (ppm)

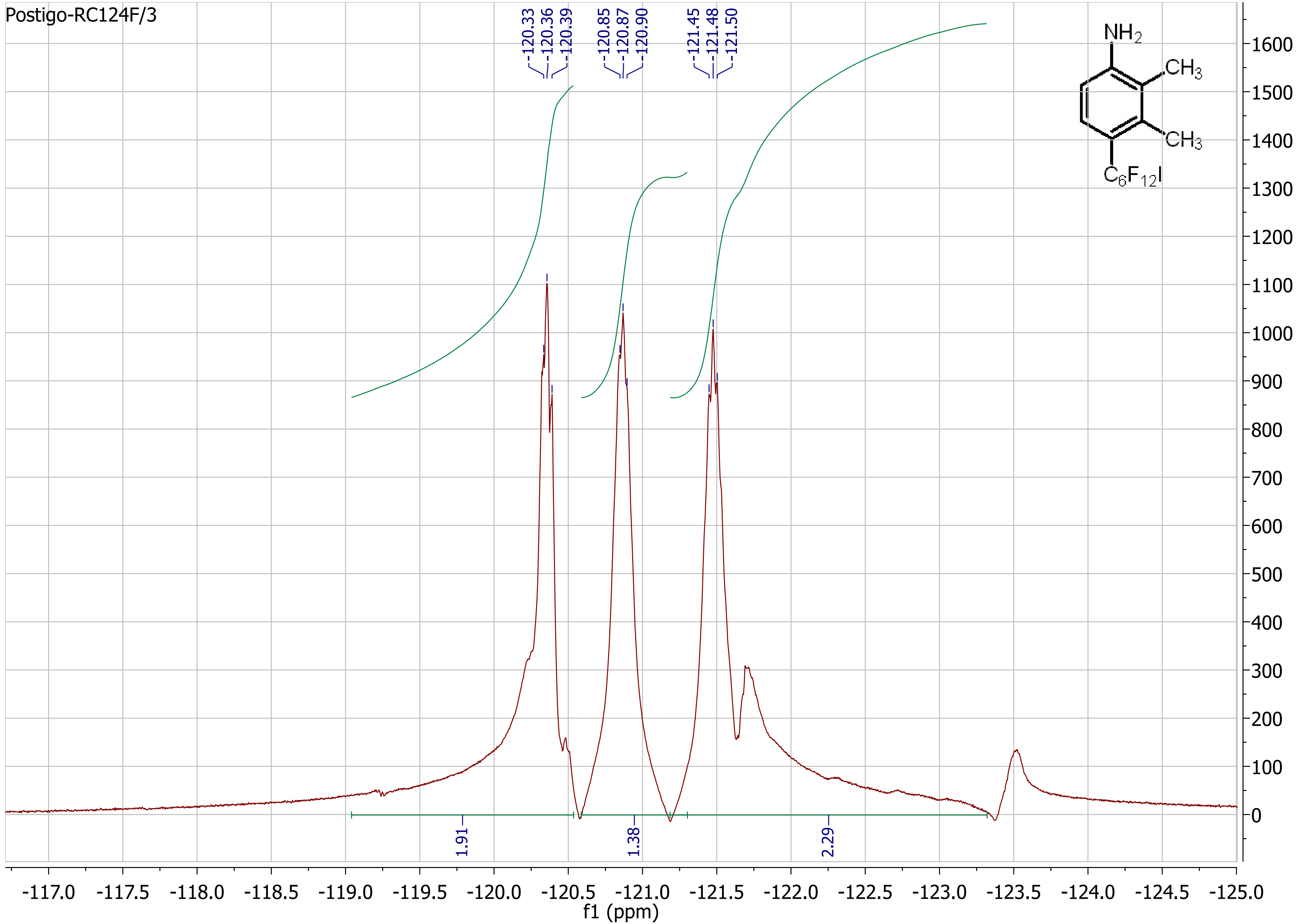


Postigo-RC124F/3
-58.55
-58.58
-58.61
NH2
CH3
CH3
C6F12I
2.00
f1 (ppm)

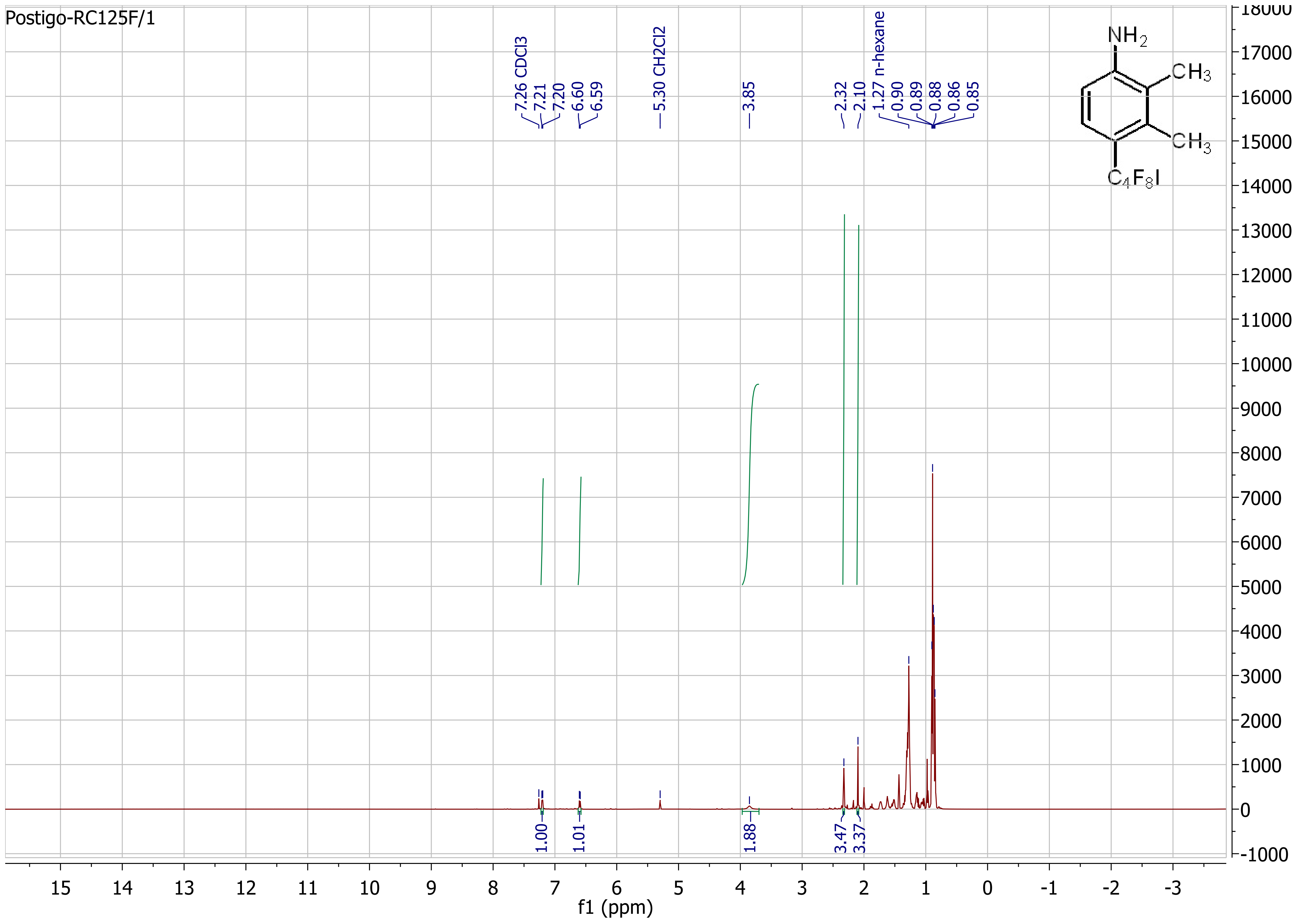


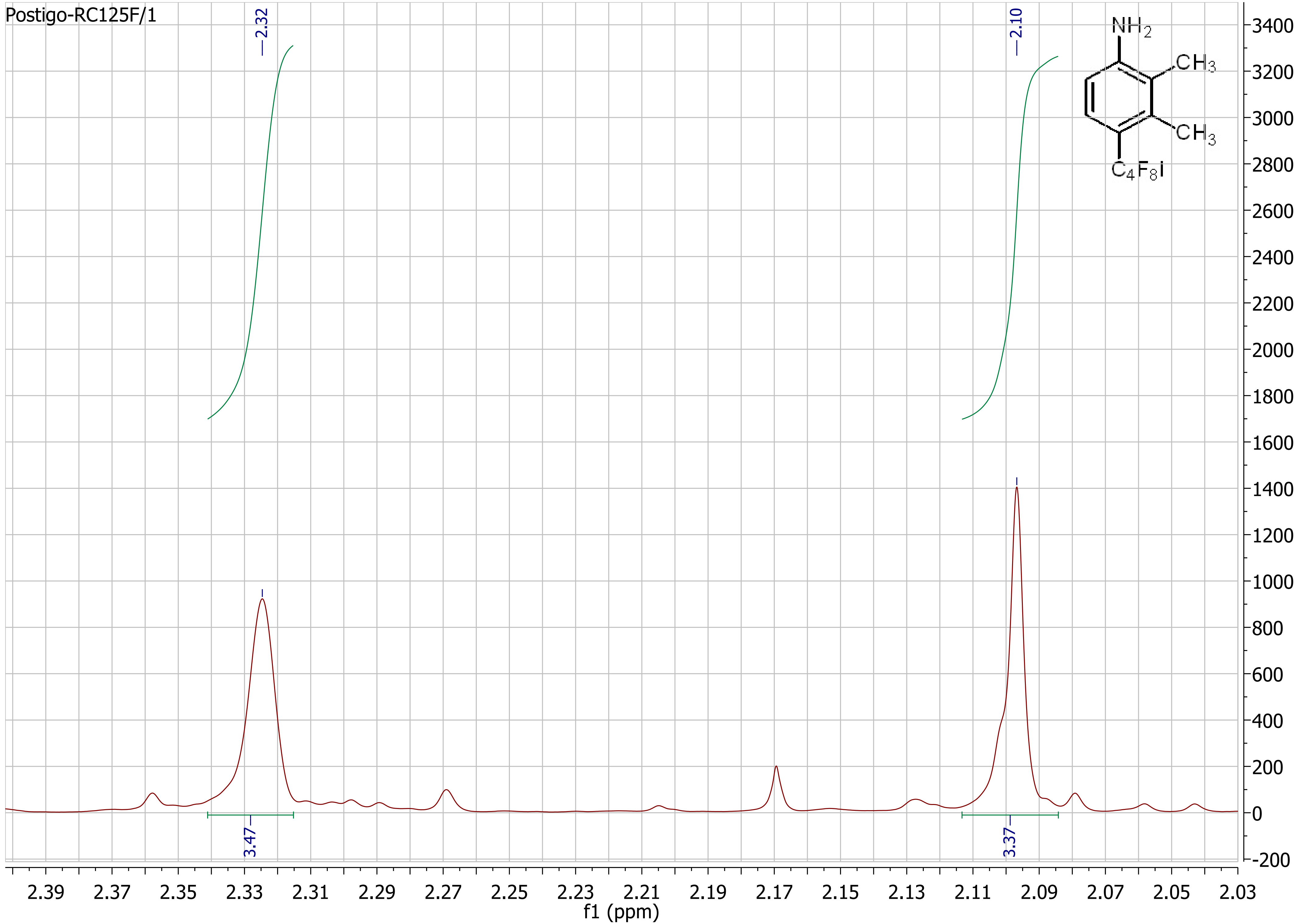
Postigo-RC124F/3
-102.67
-102.70
-102.73
NH2
CH3
CH3
C6F12I
2.03
-100.8 -101.0 -101.2 -101.4 -101.6 -101.8 -102.0 -102.2 -102.4 -102.6 -102.8 -103.0 -103.2 -103.4 -103.6 -103.8 -104.0 -104.2 -104.4 -104.6
f1 (ppm)
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100


Postigo-RC124F/3
-112.96
-112.97
-112.99
-113.02
-113.03
NH2
CH3
CH3
C6F12I
1.89
-110.8
-111.2
-111.6
-112.0
-112.4
-112.8
-113.2
-113.6
-114.0
-114.4
-114.8
-115.2
-115.6
f1 (ppm)
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0

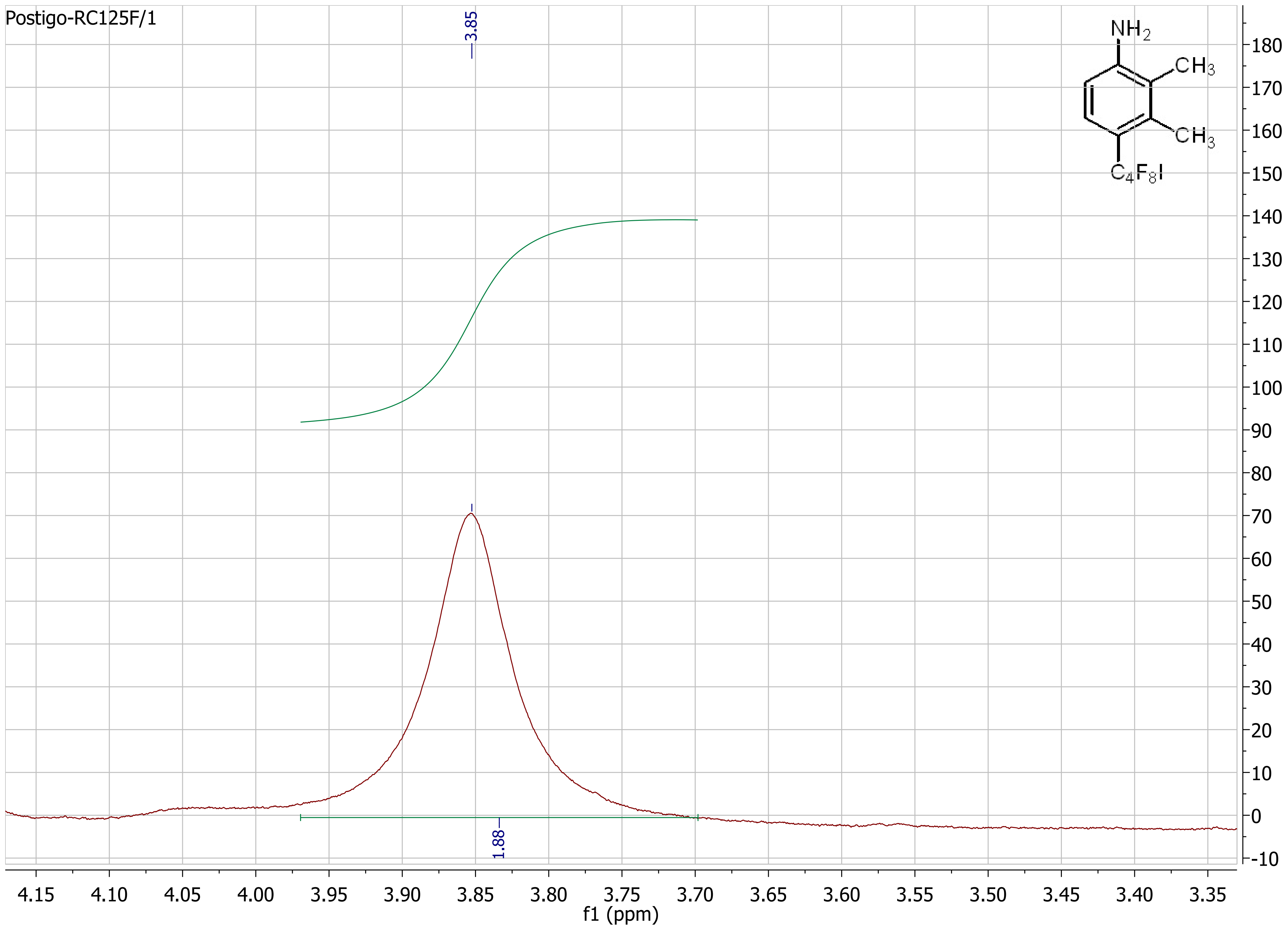


Postigo-RC124F/3
-120.33
-120.36
-120.39
-120.85
-120.87
-120.90
-121.45
-121.48
-121.50
NH2
CH3
CH3
C6F12I
1.91
1.38
2.29
f1 (ppm)

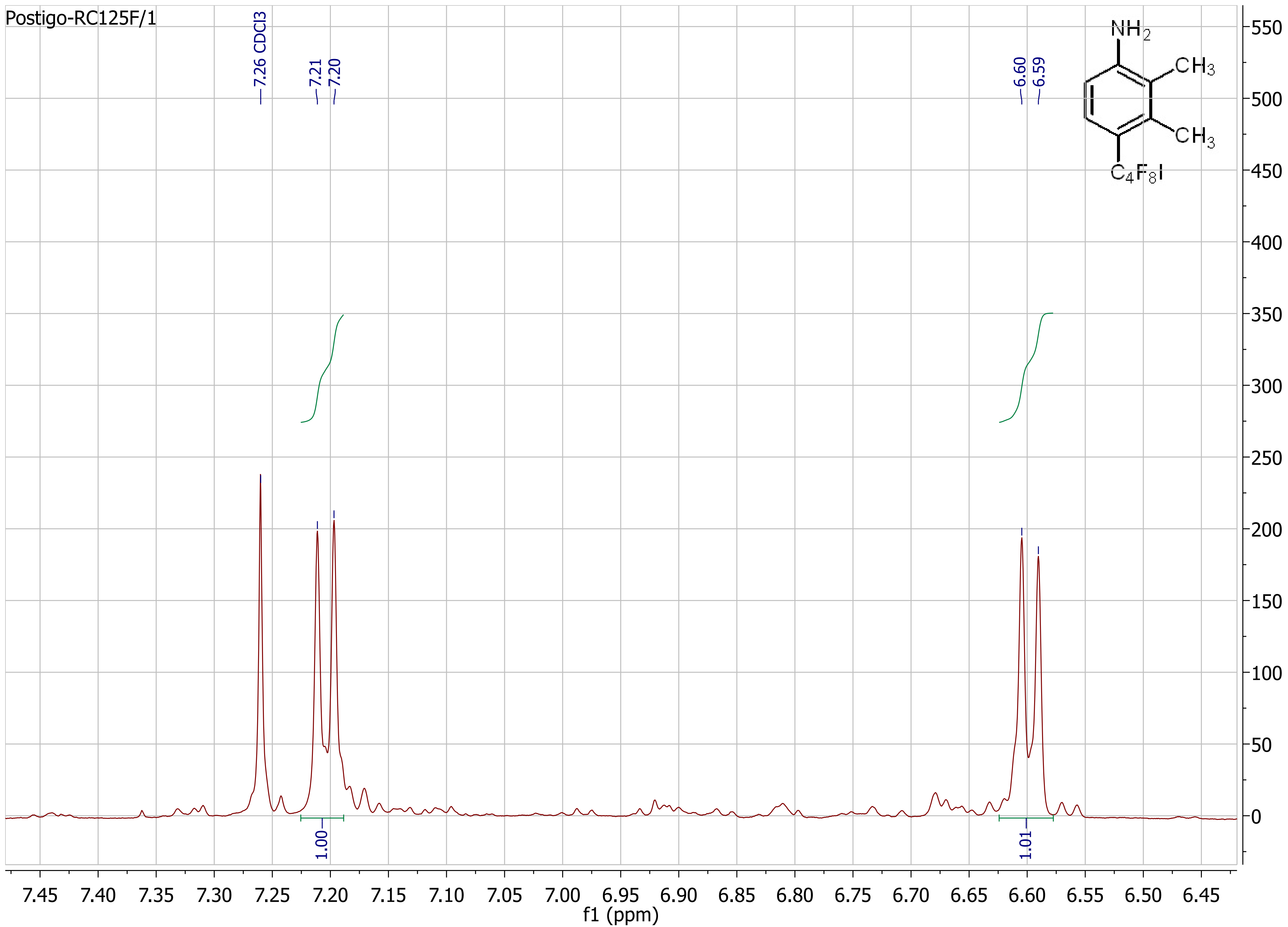

Postigo-RC125F/1
7.26 CDCl3
7.21
7.20
6.60
6.59
5.30 CH2Cl2
3.85
2.32
2.10
1.27 n-hexane
0.90
0.89
0.88
0.86
0.85
NH2
CH3
CH3
C4F8I
1.00
1.01
1.88
3.47
3.37
f1 (ppm)



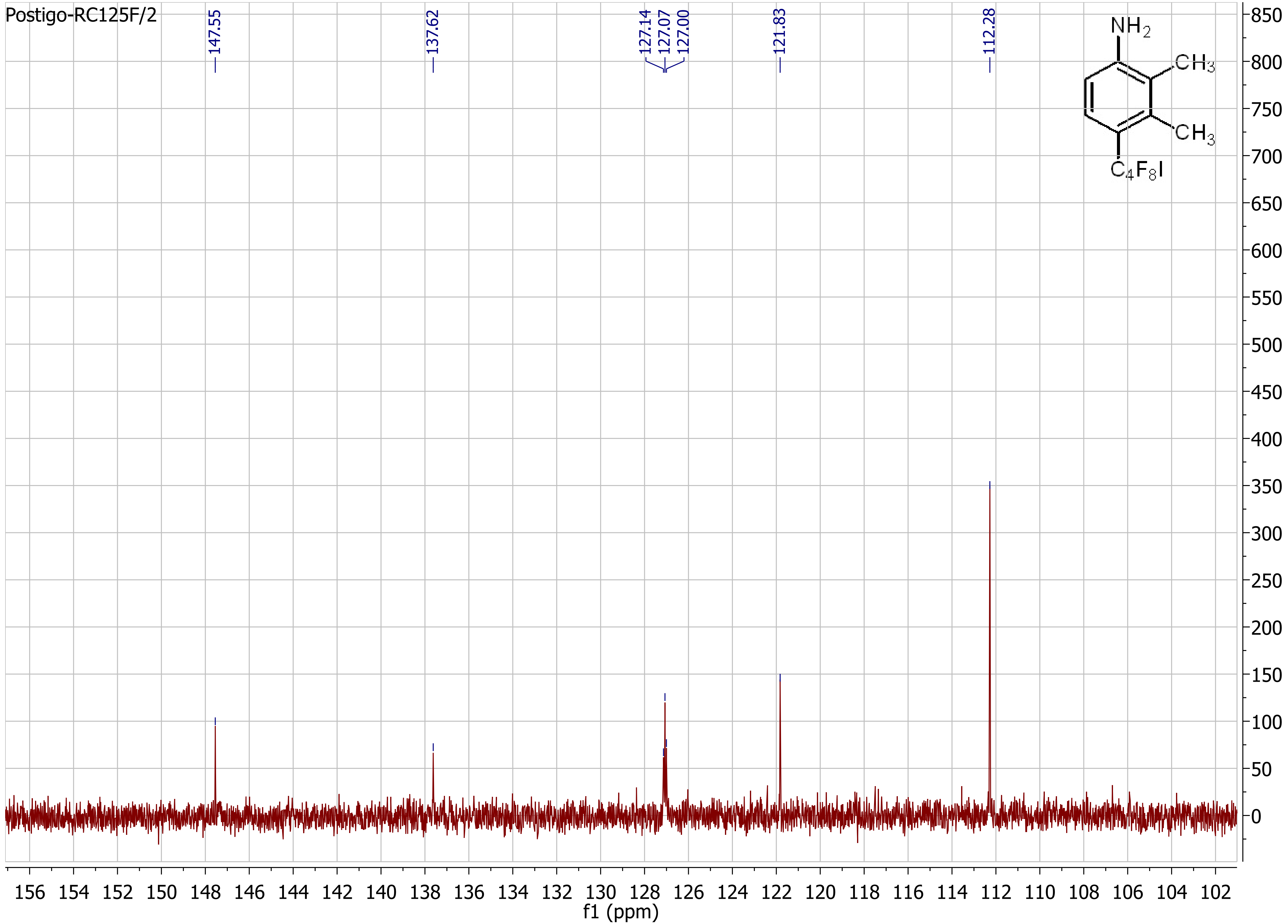
Postigo-RC125F/1
2.32
2.10
NH2
CH3
CH3
C4F8I
3.47
3.37
2.39 2.37 2.35 2.33 2.31 2.29 2.27 2.25 2.23 2.21 2.19 2.17 2.15 2.13 2.11 2.09 2.07 2.05 2.03
f1 (ppm)
3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 800 600 400 200 0 -200



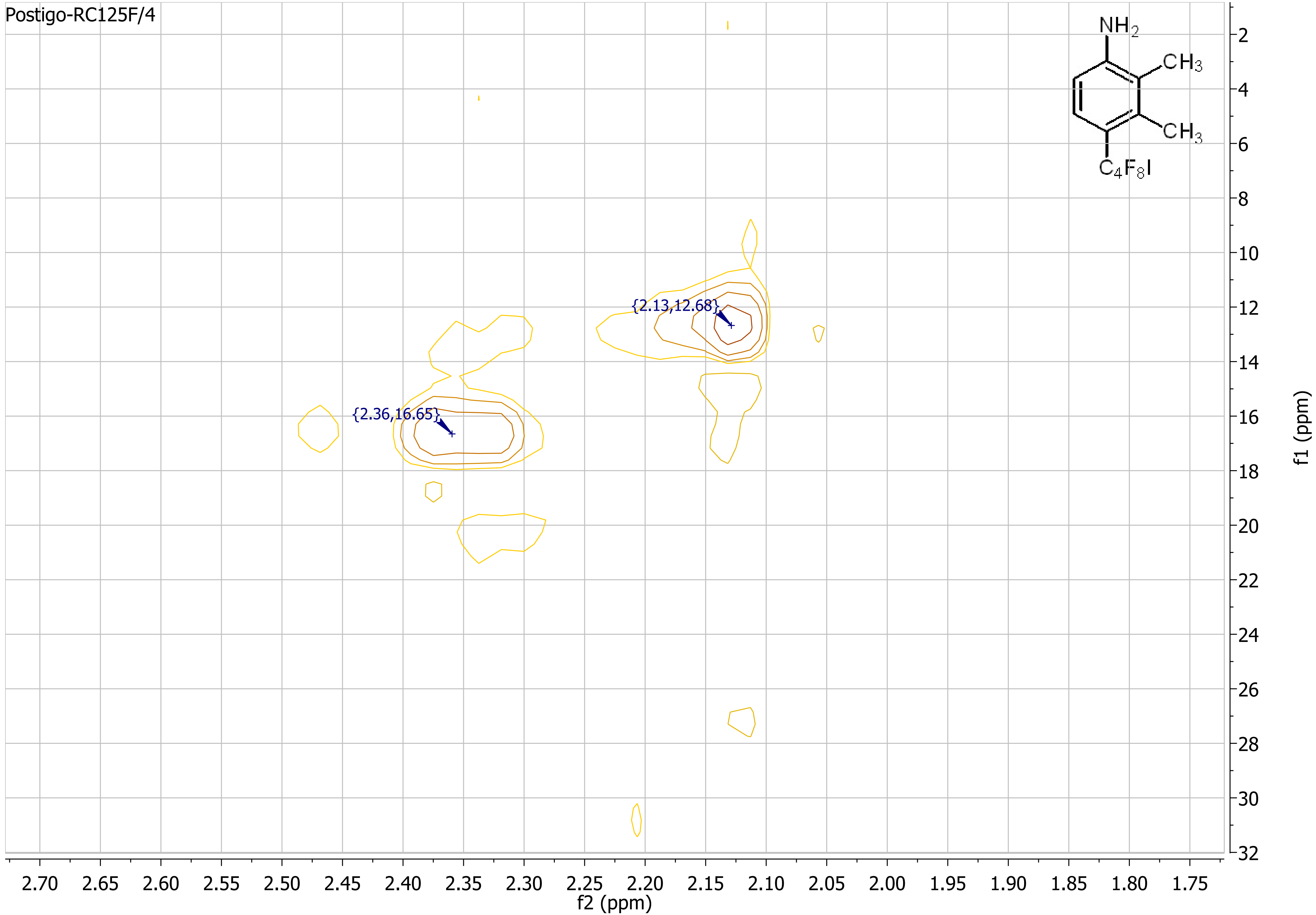
Postigo-RC125F/1
3.85
NH2
CH3
CH3
C4F8I
1.88
4.15
4.10
4.05
4.00
3.95
3.90
3.85
3.80
3.75
3.70
3.65
3.60
3.55
3.50
3.45
3.40
3.35
f1 (ppm)
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10

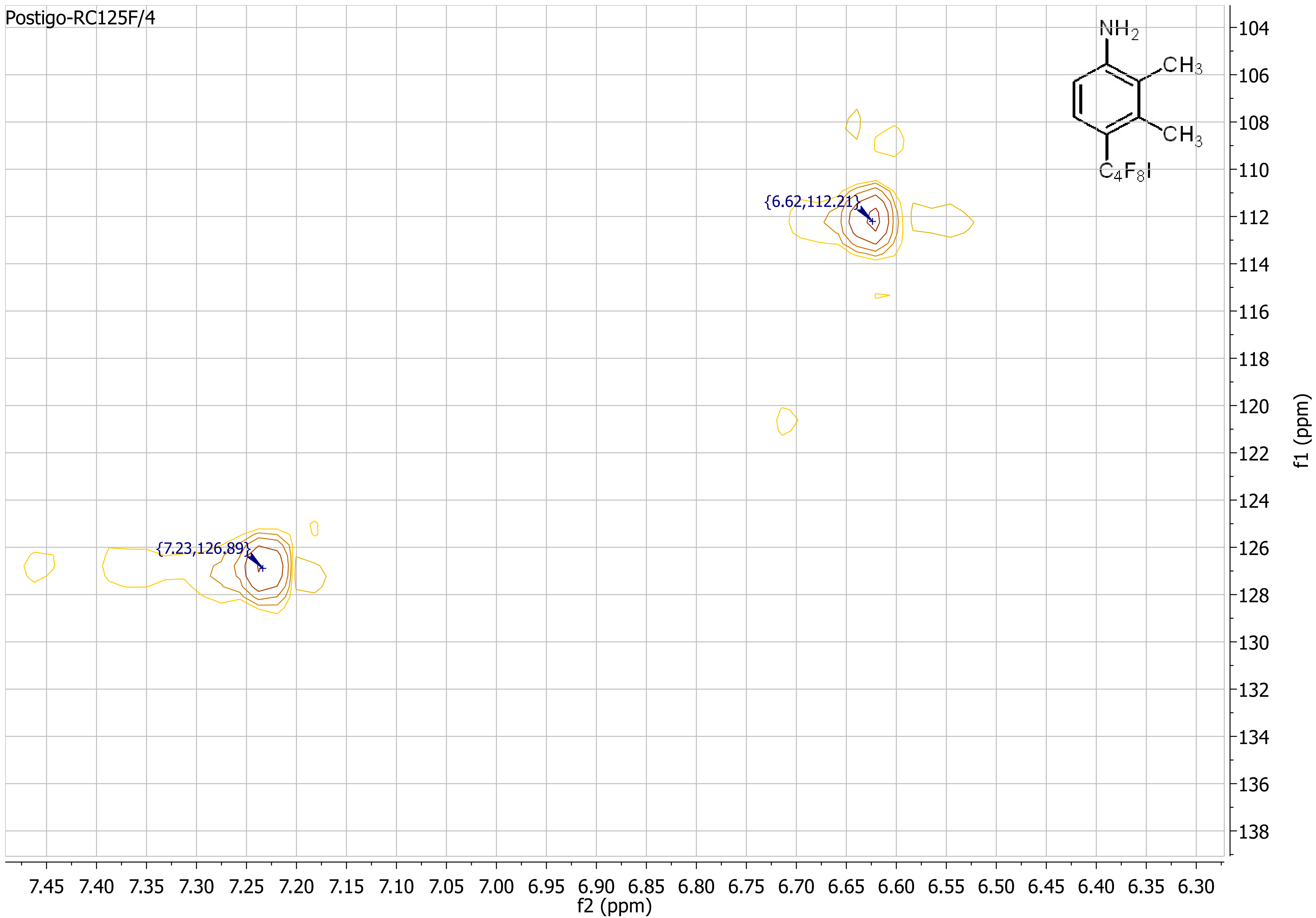


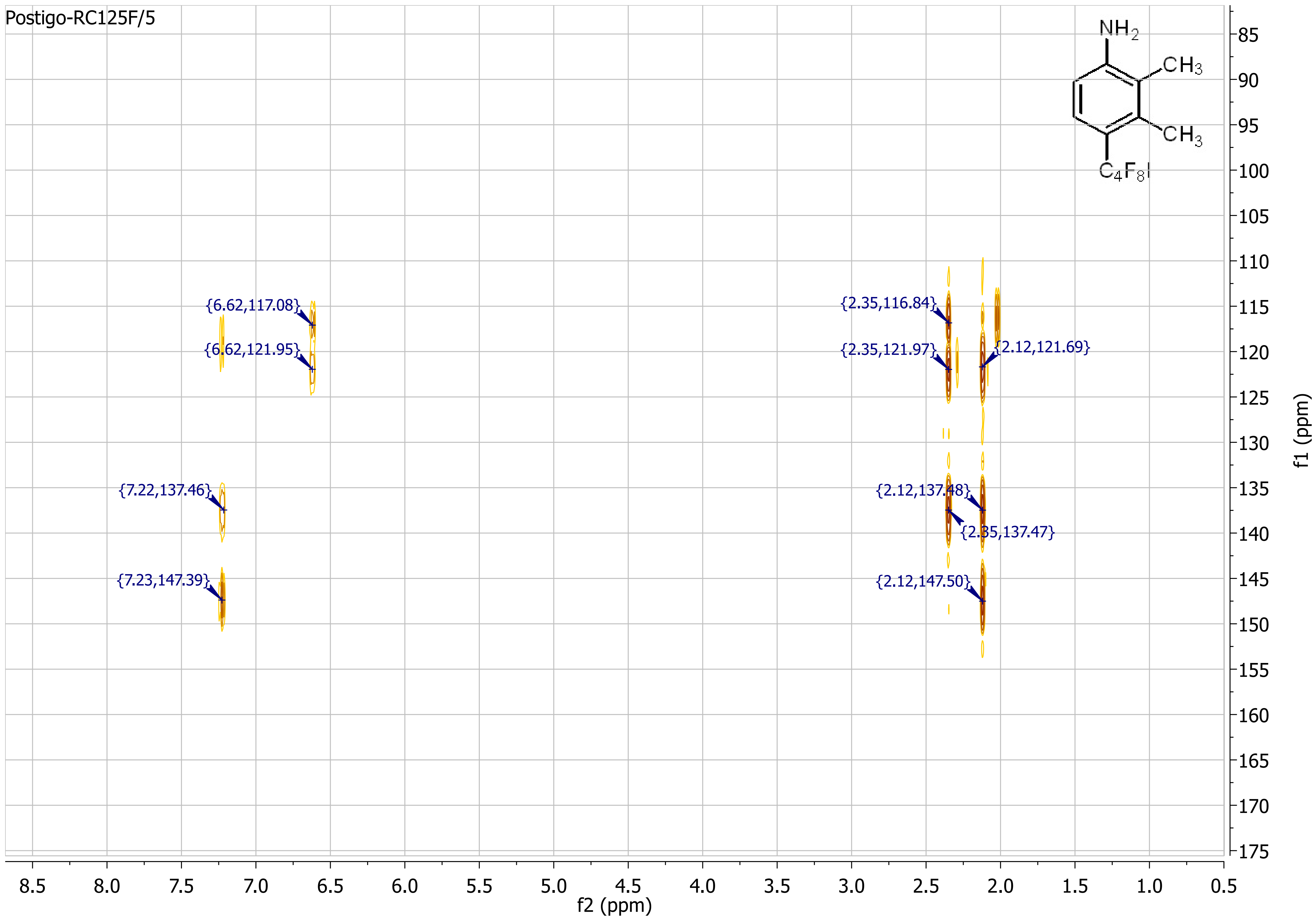
Postigo-RC125F/1
7.26 CDCl3
7.21
7.20
6.60
6.59
NH2
CH3
CH3
C4F8I
1.00
1.01
f1 (ppm)

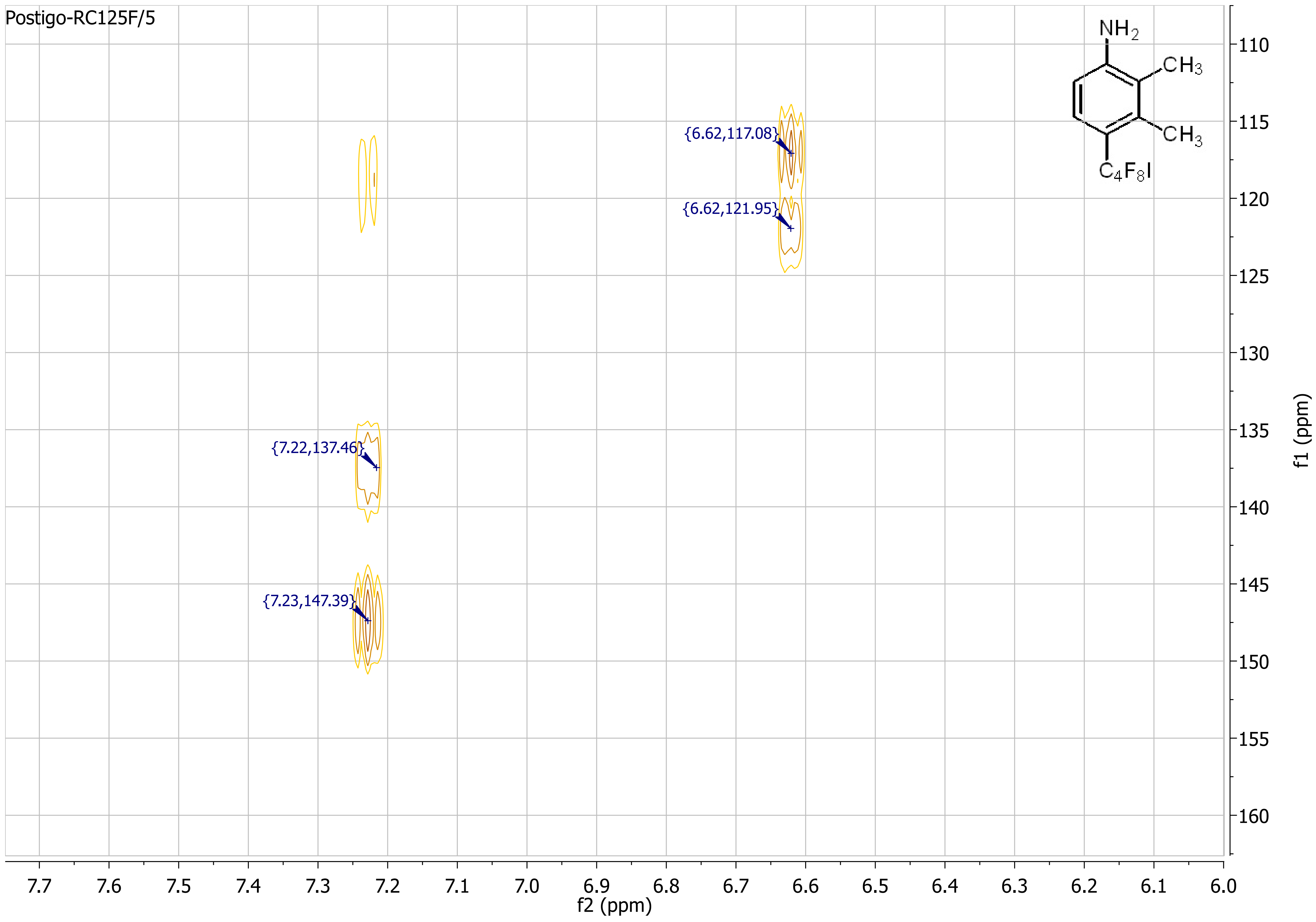


Postigo-RC125F/2
147.55
137.62
127.14
127.07
127.00
121.83
112.28
NH2
CH3
CH3
C4F8I
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102
f1 (ppm)

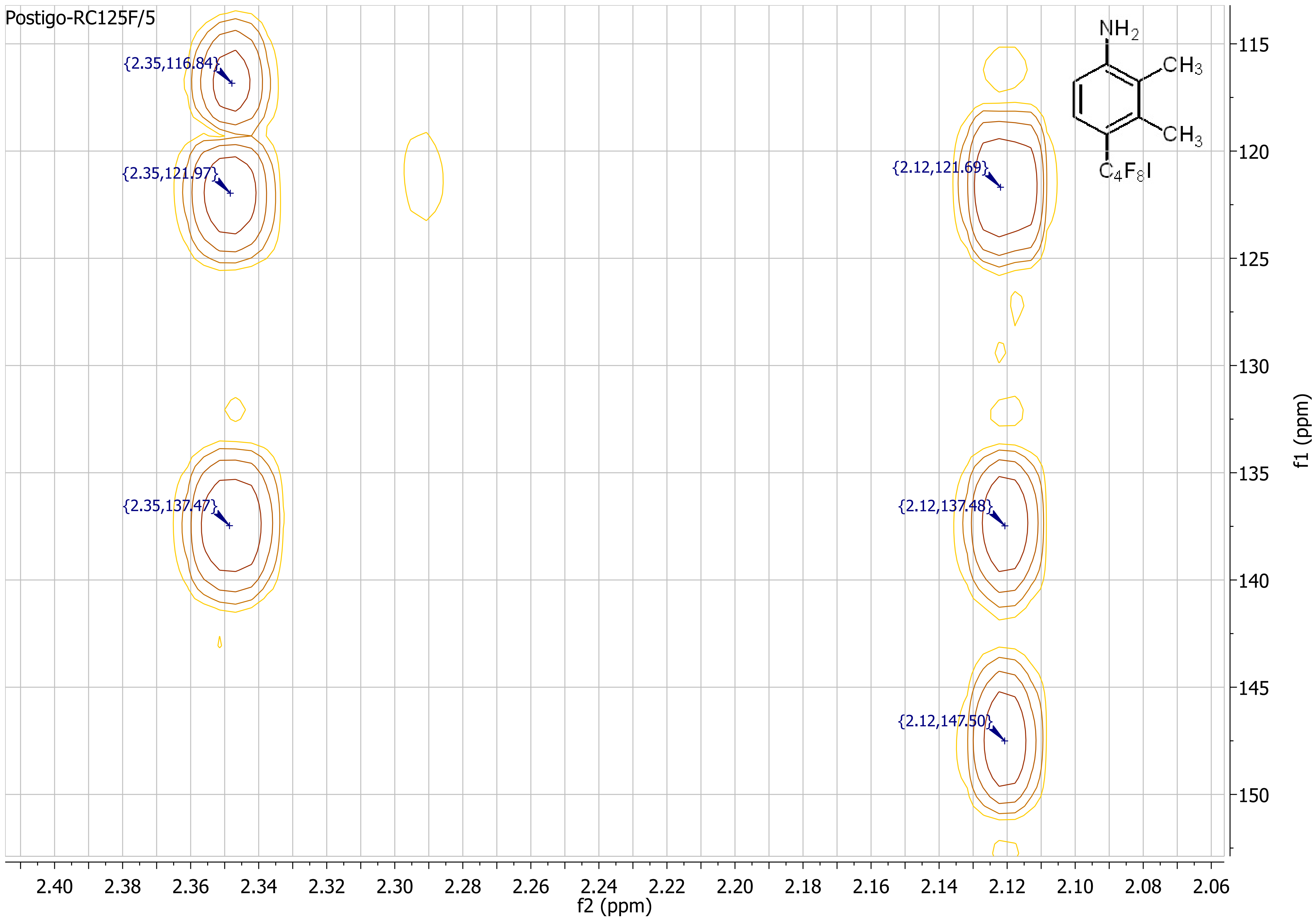

Postigo-RC125F/4
NH2
CH3
CH3
C4F8I
{2.13,12.68}
{2.36,16.65}
f2 (ppm)
f1 (ppm)
2.70
2.65
2.60
2.55
2.50
2.45
2.40
2.35
2.30
2.25
2.20
2.15
2.10
2.05
2.00
1.95
1.90
1.85
1.80
1.75
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32

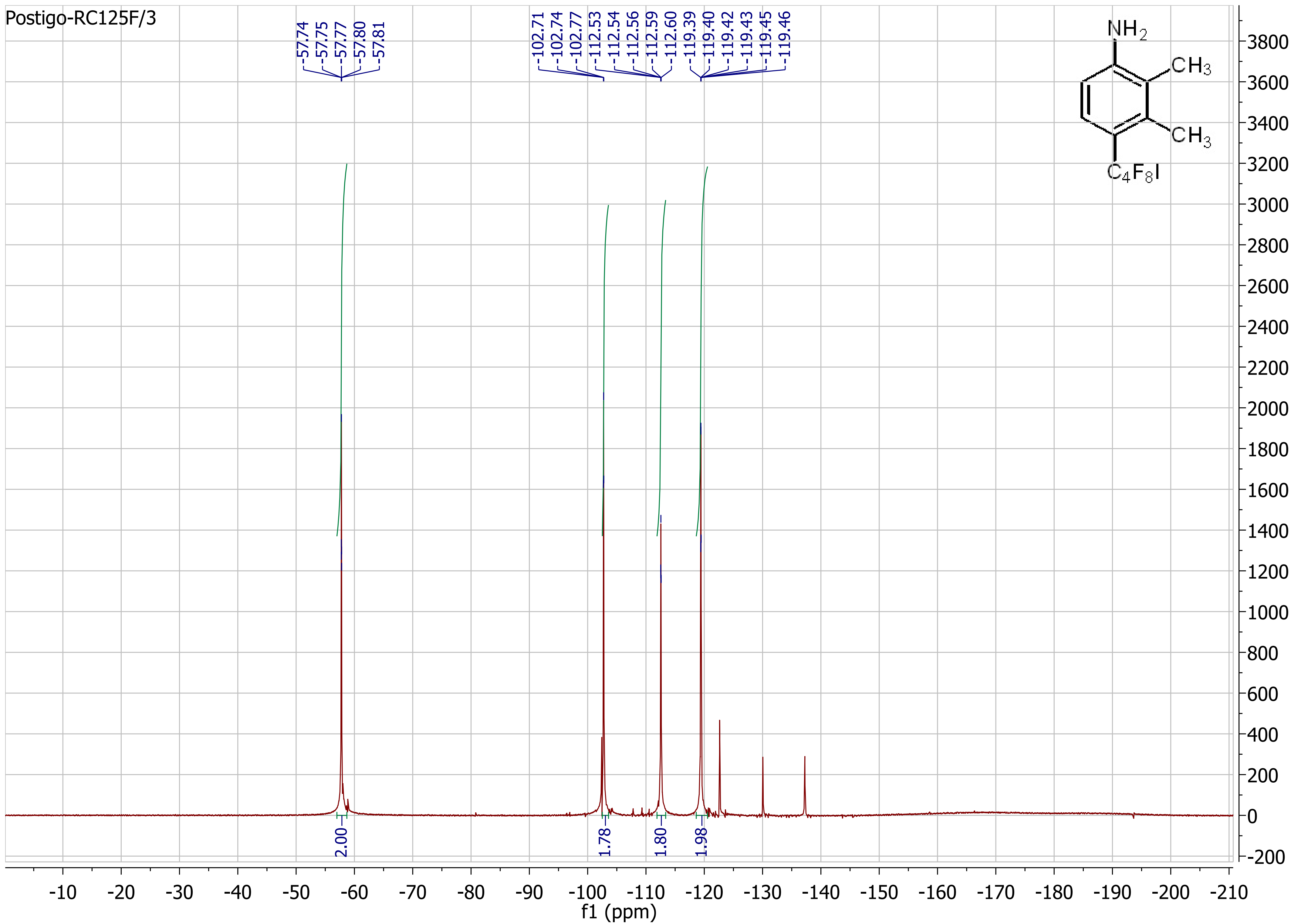

Postigo-RC125F/4
NH2
CH3
CH3
C4F8I
{6.62,112.21}
{7.23,126.89}
f2 (ppm)
f1 (ppm)


Postigo-RC125F/5
NH2
CH3
CH3
C4F8I
{6.62,117.08}
{6.62,121.95}
{7.22,137.46}
{7.23,147.39}
{2.35,116.84}
{2.35,121.97}
{2.12,121.69}
{2.12,137.48}
{2.35,137.47}
{2.12,147.50}
f2 (ppm)
f1 (ppm)

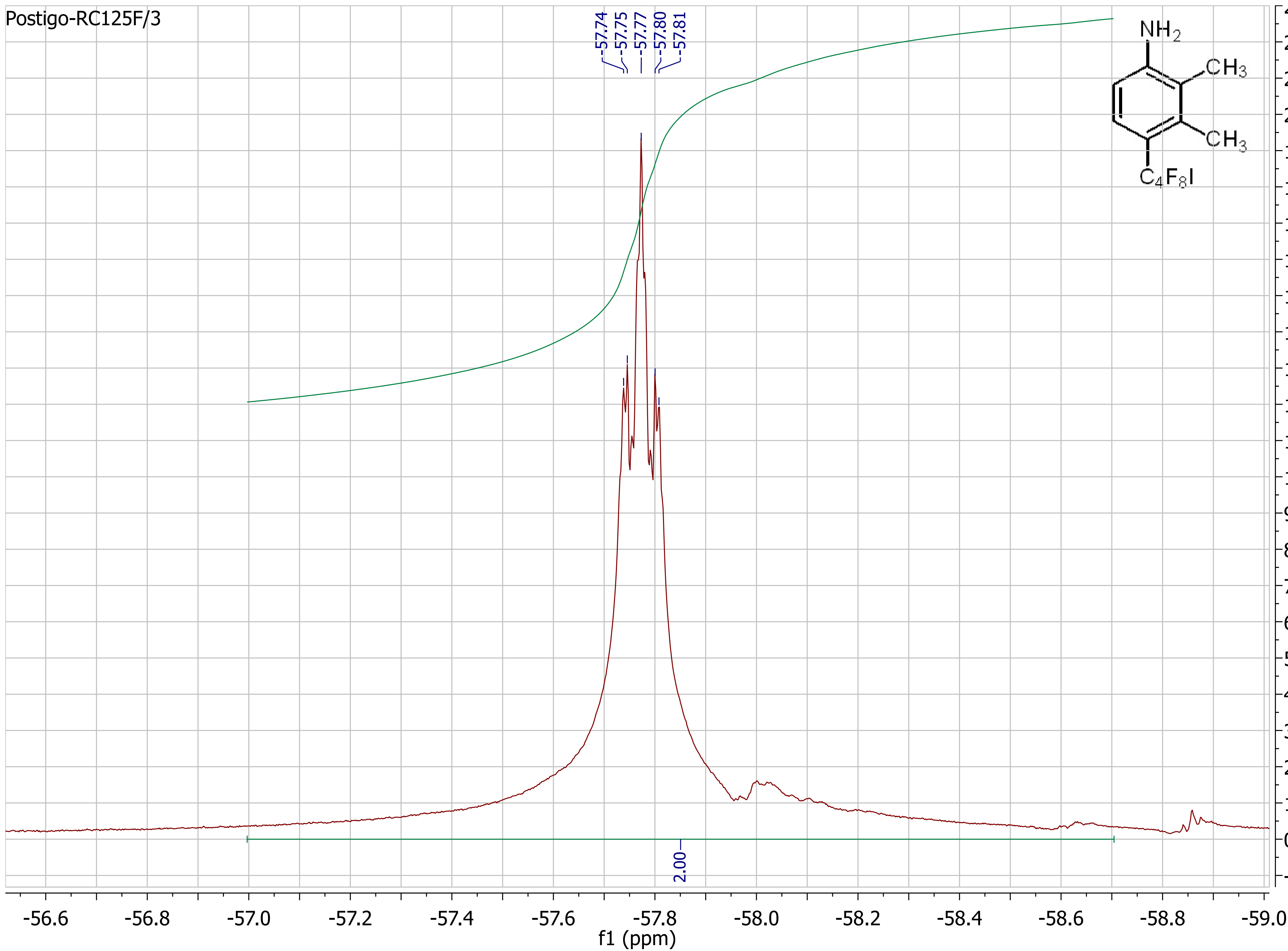


Postigo-RC125F/5
NH2
CH3
CH3
C4F8I
{6.62,117.08}
{6.62,121.95}
{7.22,137.46}
{7.23,147.39}
f2 (ppm)
f1 (ppm)

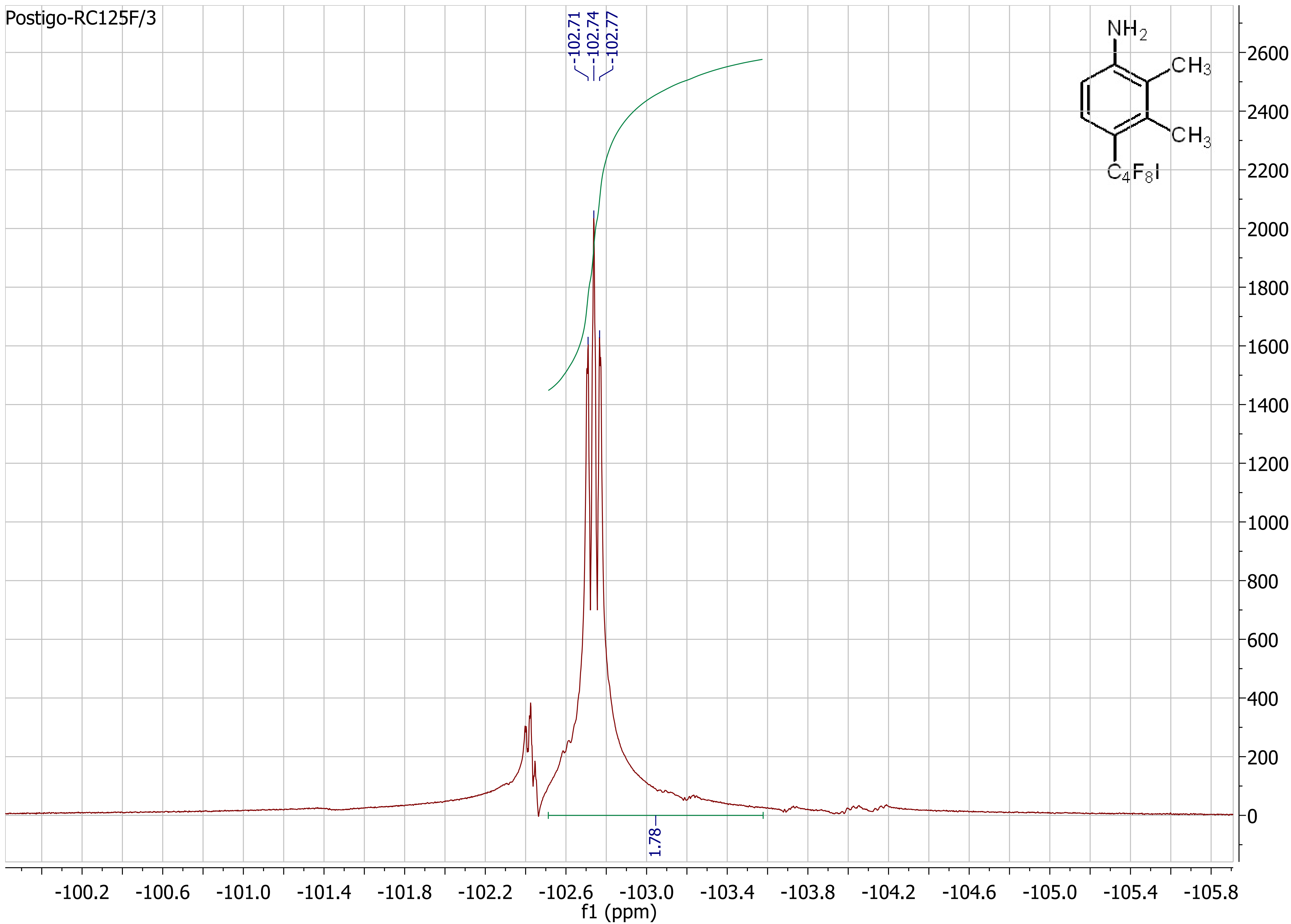

Postigo-RC125F/5
{2.35,116.84}
{2.35,121.97}
{2.35,137.47}
{2.12,121.69}
{2.12,137.48}
{2.12,147.50}
NH2
CH3
CH3
C4F8I
f1 (ppm)
f2 (ppm)



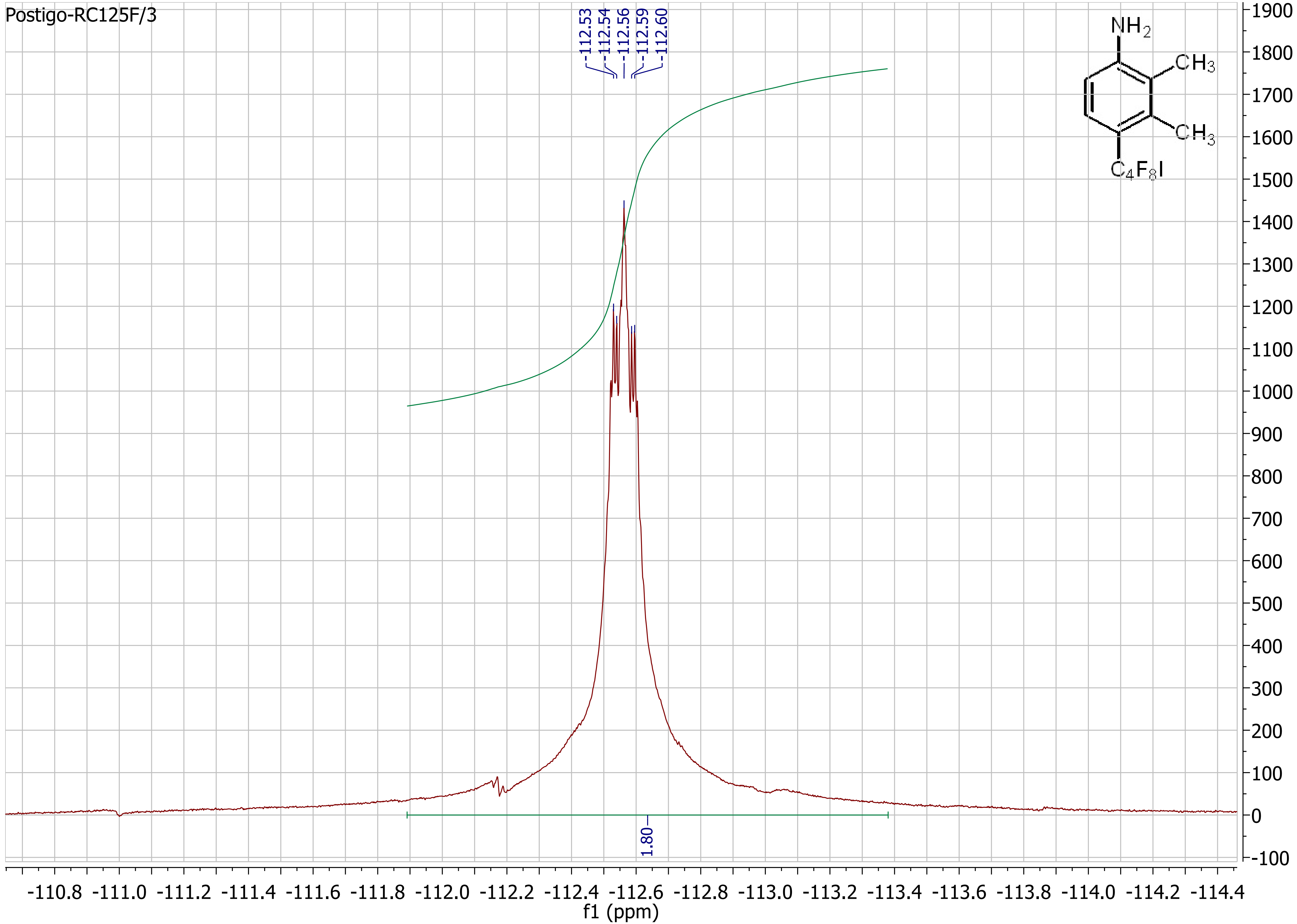
Postigo-RC125F/3
-57.74
-57.75
-57.77
-57.80
-57.81
-102.71
-102.74
-102.77
-112.53
-112.54
-112.56
-112.59
-112.60
-119.39
-119.40
-119.42
-119.43
-119.45
-119.46
NH2
CH3
CH3
C4F8I
2.00
1.78
1.80
1.98
f1 (ppm)



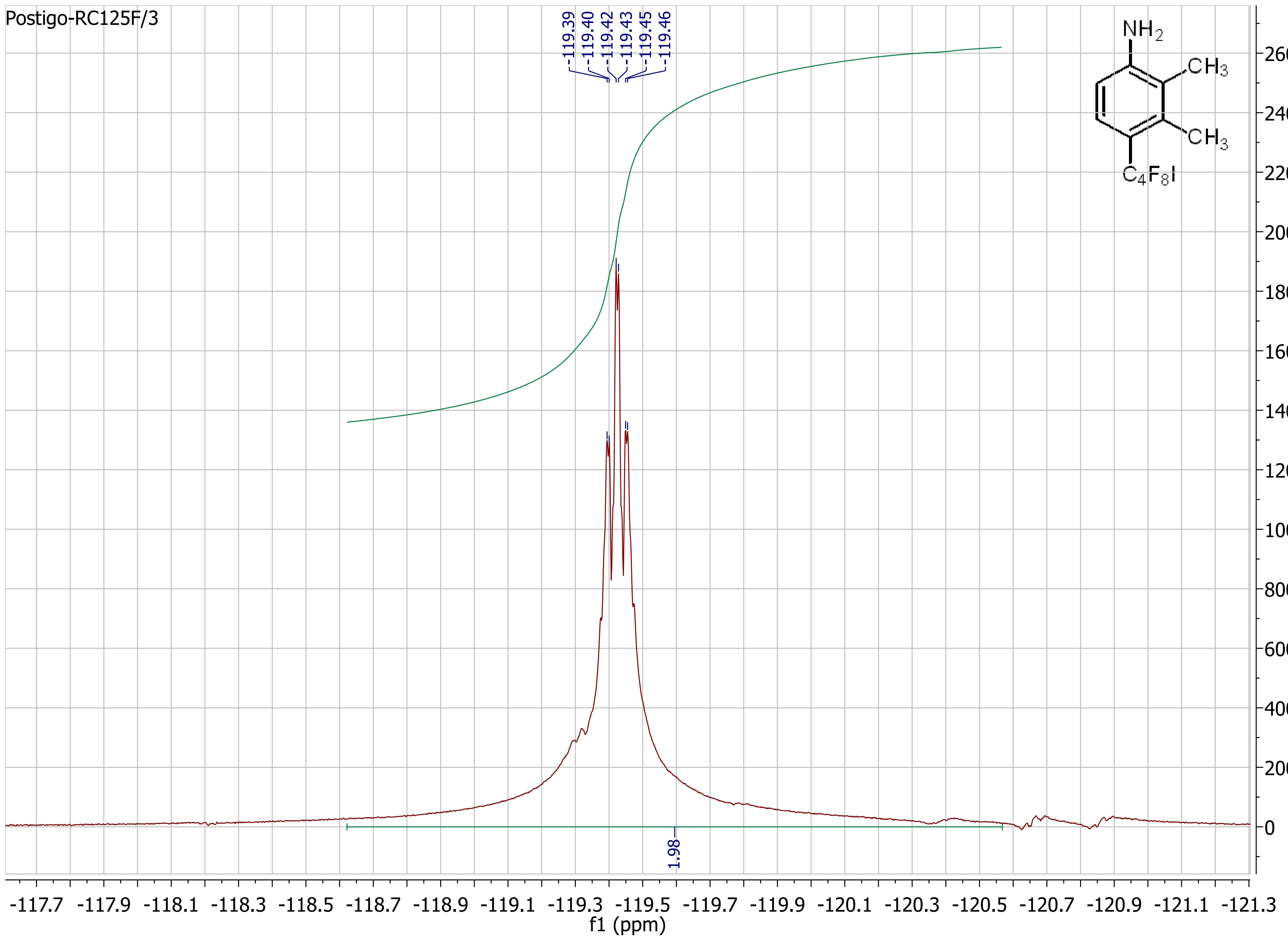
Postigo-RC125F/3
-57.74
-57.75
-57.77
-57.80
-57.81
NH2
CH3
CH3
C4F8I
2.00
f1 (ppm)



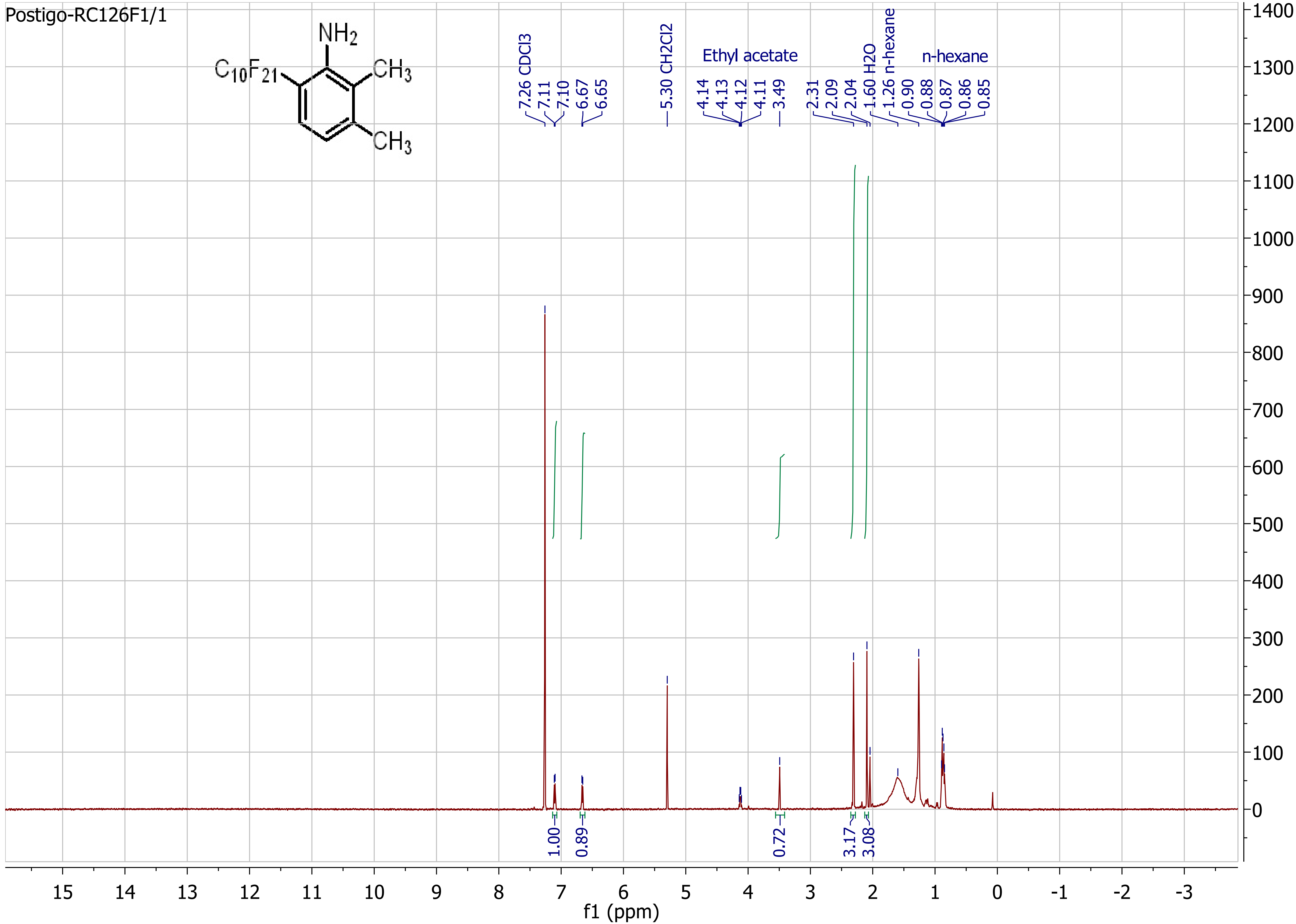
Postigo-RC125F/3
-102.71
-102.74
-102.77
1.78
f1 (ppm)
NH2
CH3
CH3
C4F8I



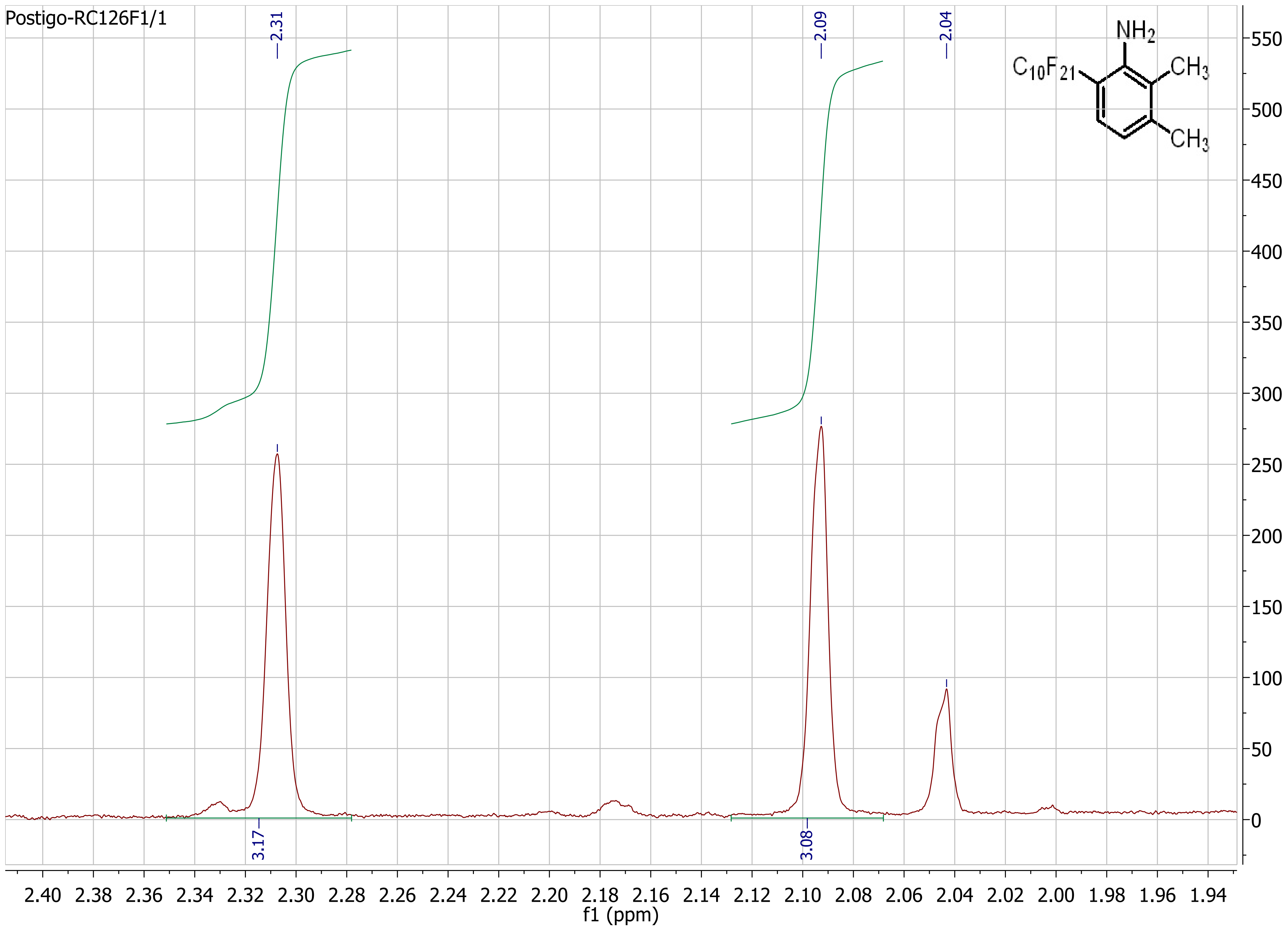
Postigo-RC125F/3
-112.53
-112.54
-112.56
-112.59
-112.60
NH2
CH3
CH3
C4F8I
1.80
f1 (ppm)



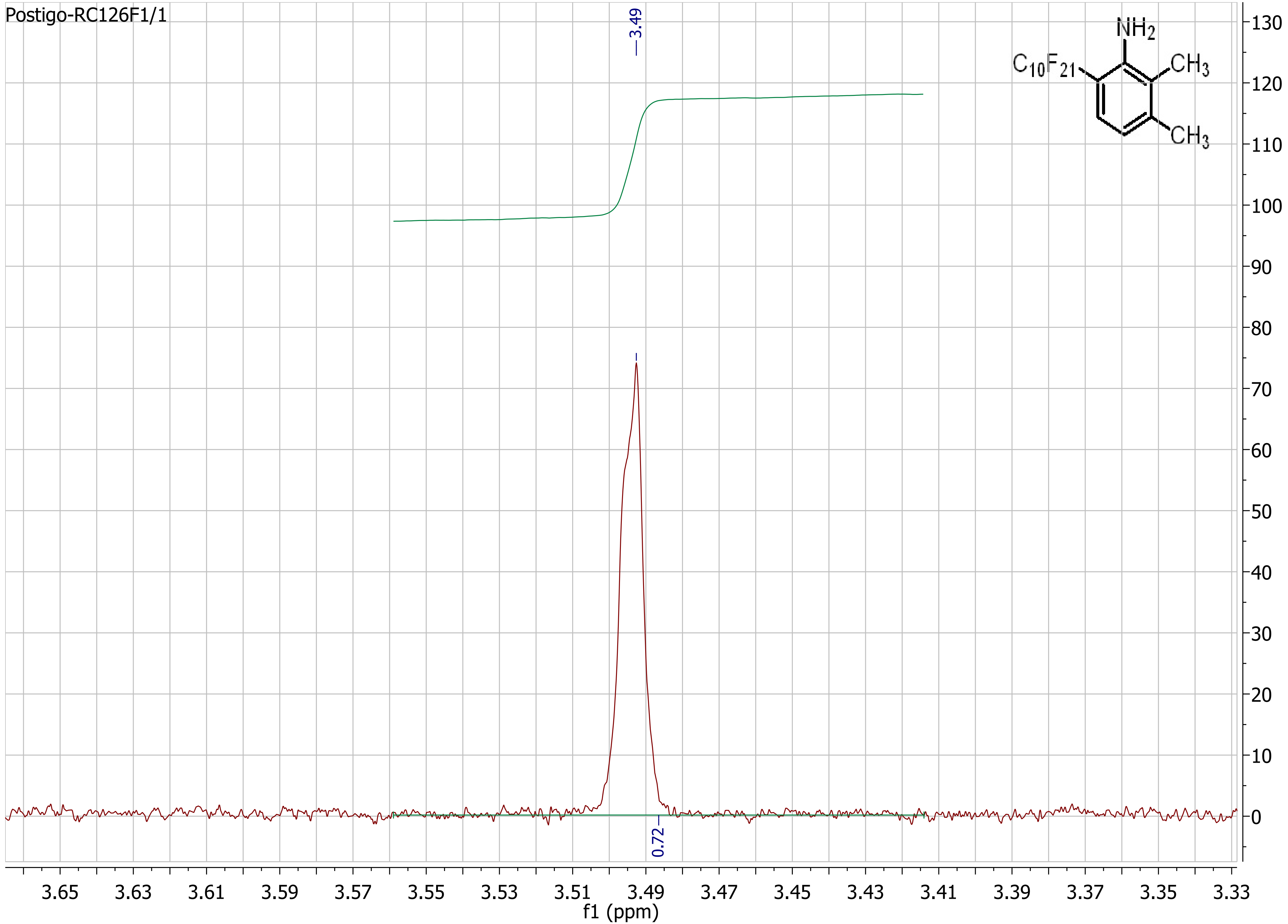
Postigo-RC125F/3
-119.39
-119.40
-119.42
-119.43
-119.45
-119.46
NH2
CH3
CH3
C4F8I
1.98
f1 (ppm)



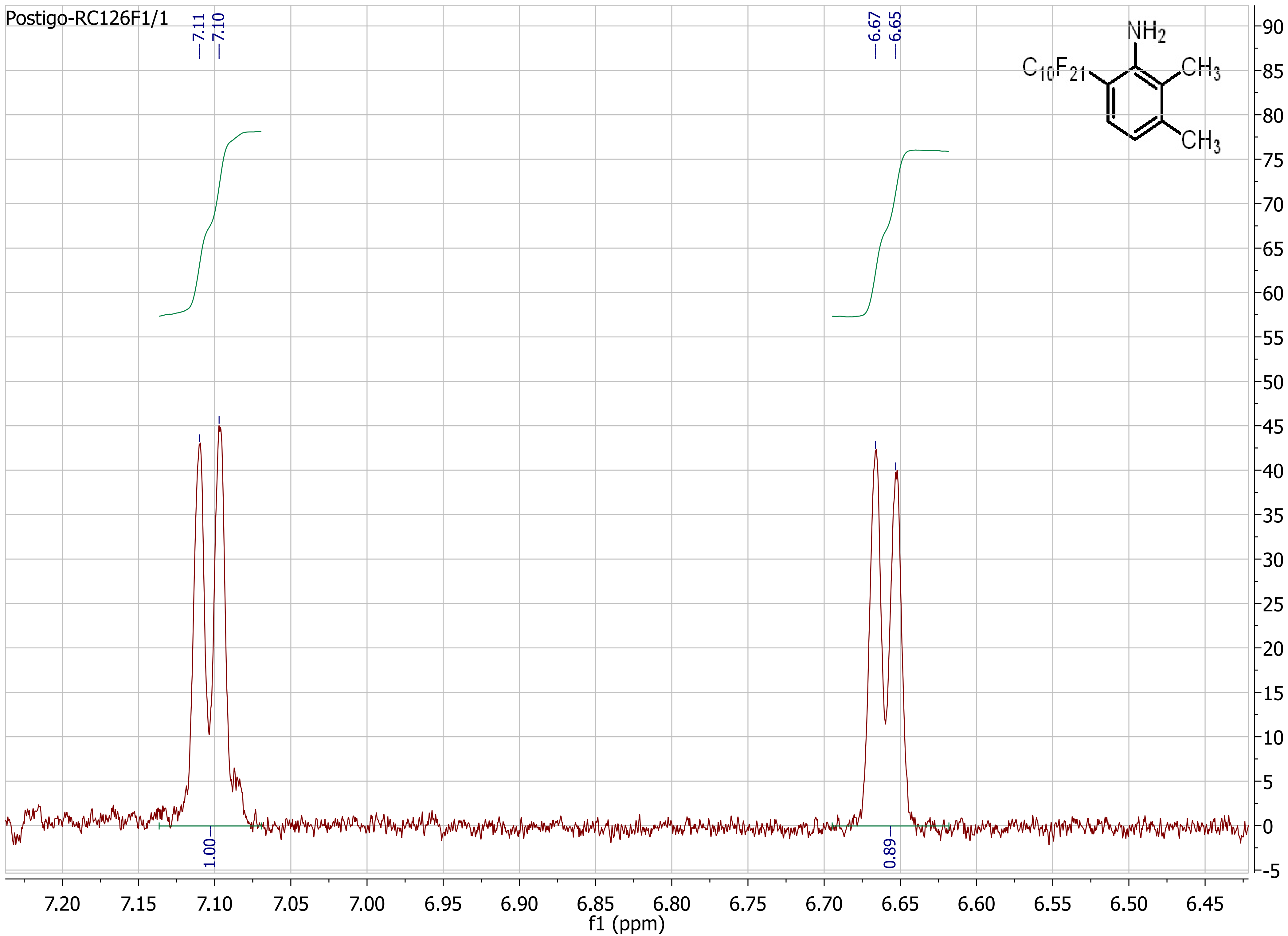
Postigo-RC126F1/1
NH_2
$C_{10}F_{21}$
CH_3
CH_3
7.26 CDCl3
7.11
7.10
6.67
6.65
5.30 CH2Cl2
Ethyl acetate
4.14
4.13
4.12
4.11
3.49
2.31
2.09
2.04
1.60 H2O
1.26 n-hexane
0.90
0.88
0.87
0.86
0.85
n-hexane
1.00
0.89
0.72
3.17
3.08
f1 (ppm)



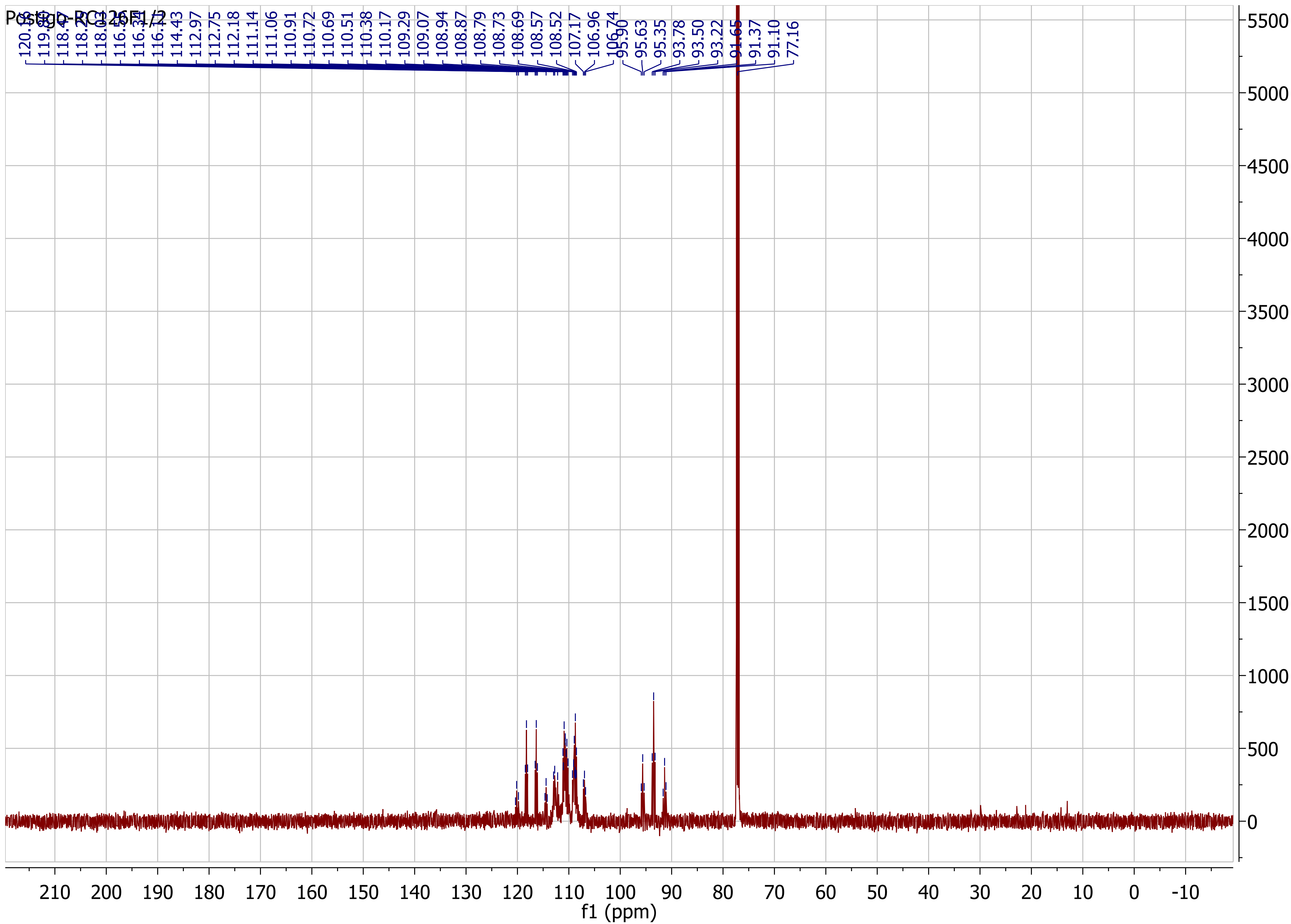
Postigo-RC126F1/1
2.31
2.09
2.04
NH_2
$C_{10}F_{21}$
CH_3
CH_3
3.17
3.08
550
500
450
400
350
300
250
200
150
100
50
0
2.40 2.38 2.36 2.34 2.32 2.30 2.28 2.26 2.24 2.22 2.20 2.18 2.16 2.14 2.12 2.10 2.08 2.06 2.04 2.02 2.00 1.98 1.96 1.94
f1 (ppm)



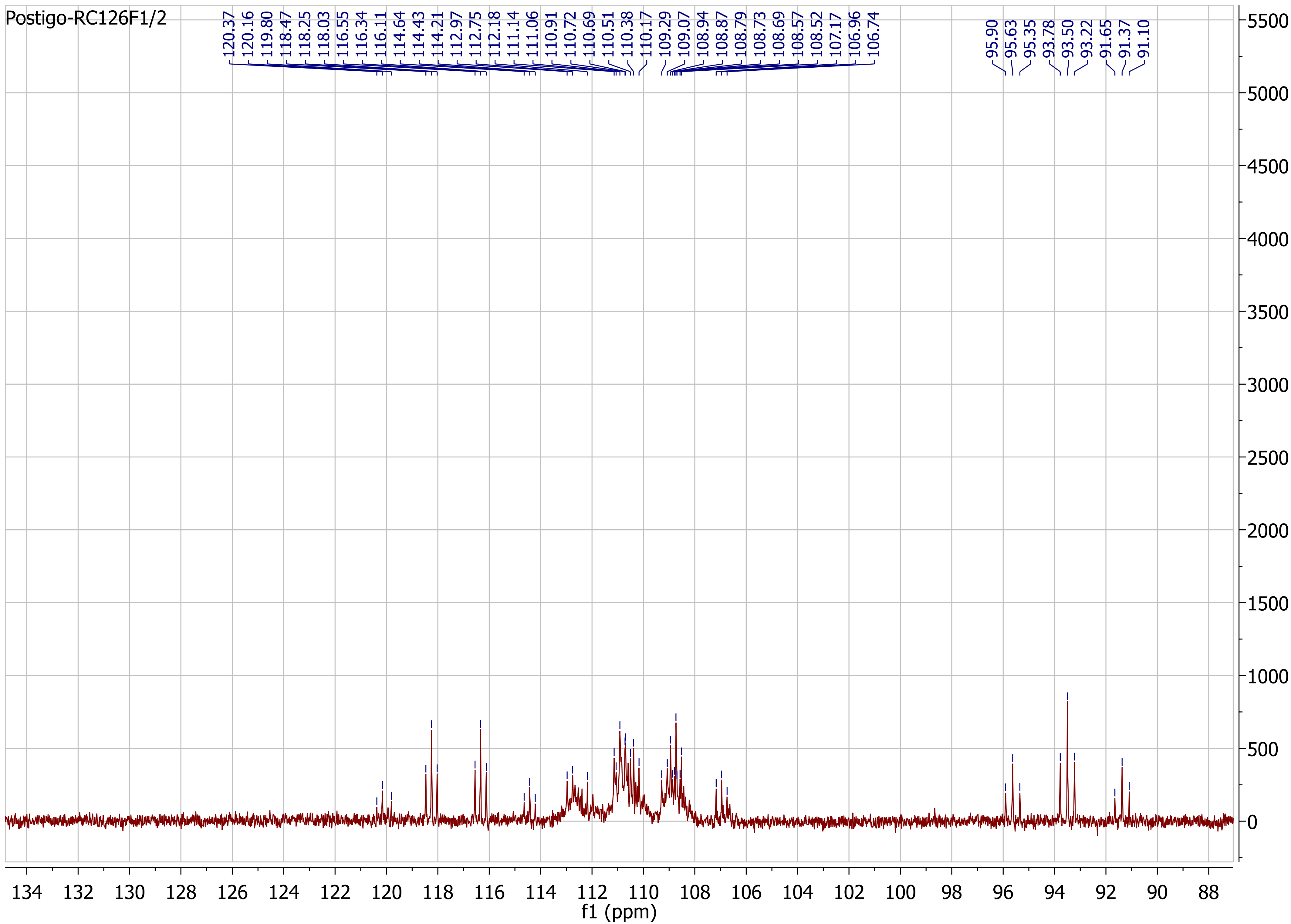
Postigo-RC126F1/1
3.49
0.72
NH2
C10F21
CH3
CH3
130
120
110
100
90
80
70
60
50
40
30
20
10
0
3.65
3.63
3.61
3.59
3.57
3.55
3.53
3.51
3.49
3.47
3.45
3.43
3.41
3.39
3.37
3.35
3.33
f1 (ppm)



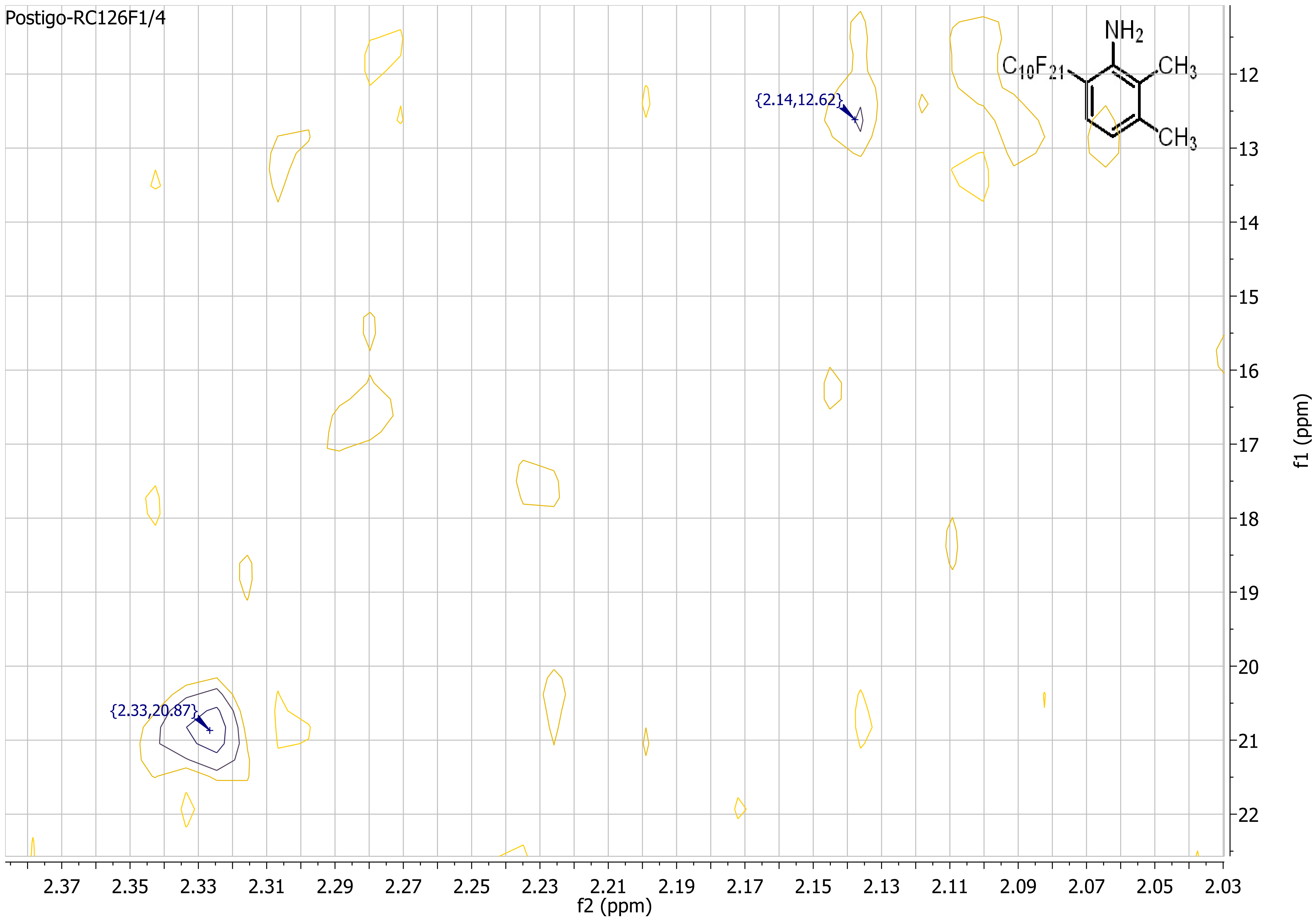
Postigo-RC126F1/1
7.11
7.10
6.67
6.65
NH2
C10F21
CH3
CH3
1.00
0.89
f1 (ppm)



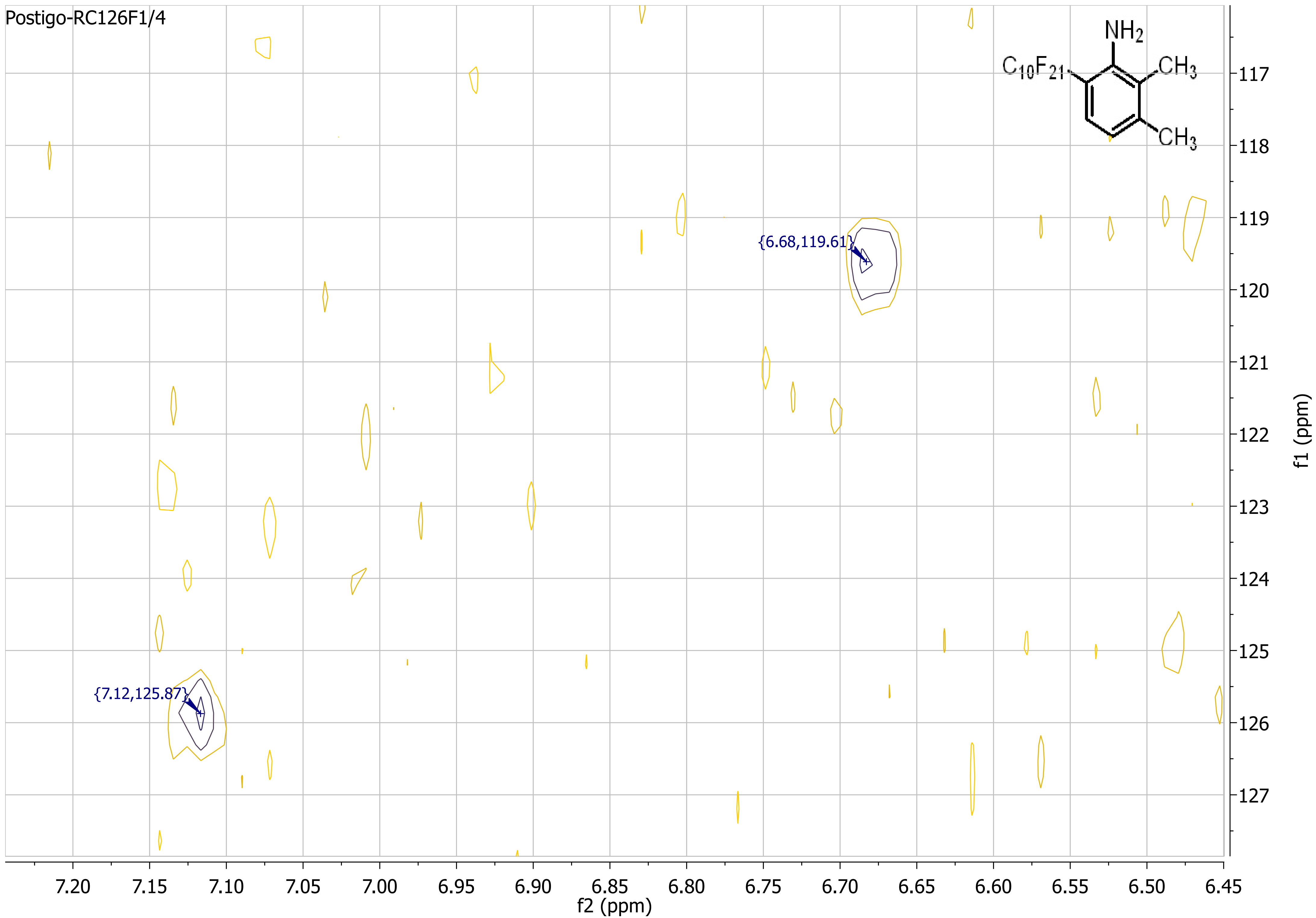
Postigo-RC126F1/2
120.18
119.89
118.47
118.20
118.05
116.35
116.34
116.11
114.43
112.97
112.75
112.18
111.14
111.06
110.91
110.72
110.69
110.51
110.38
110.17
109.29
109.07
108.94
108.87
108.79
108.73
108.69
108.57
108.52
107.17
106.96
106.74
95.90
95.63
95.35
93.78
93.50
93.22
91.65
91.37
91.10
77.16
f1 (ppm)



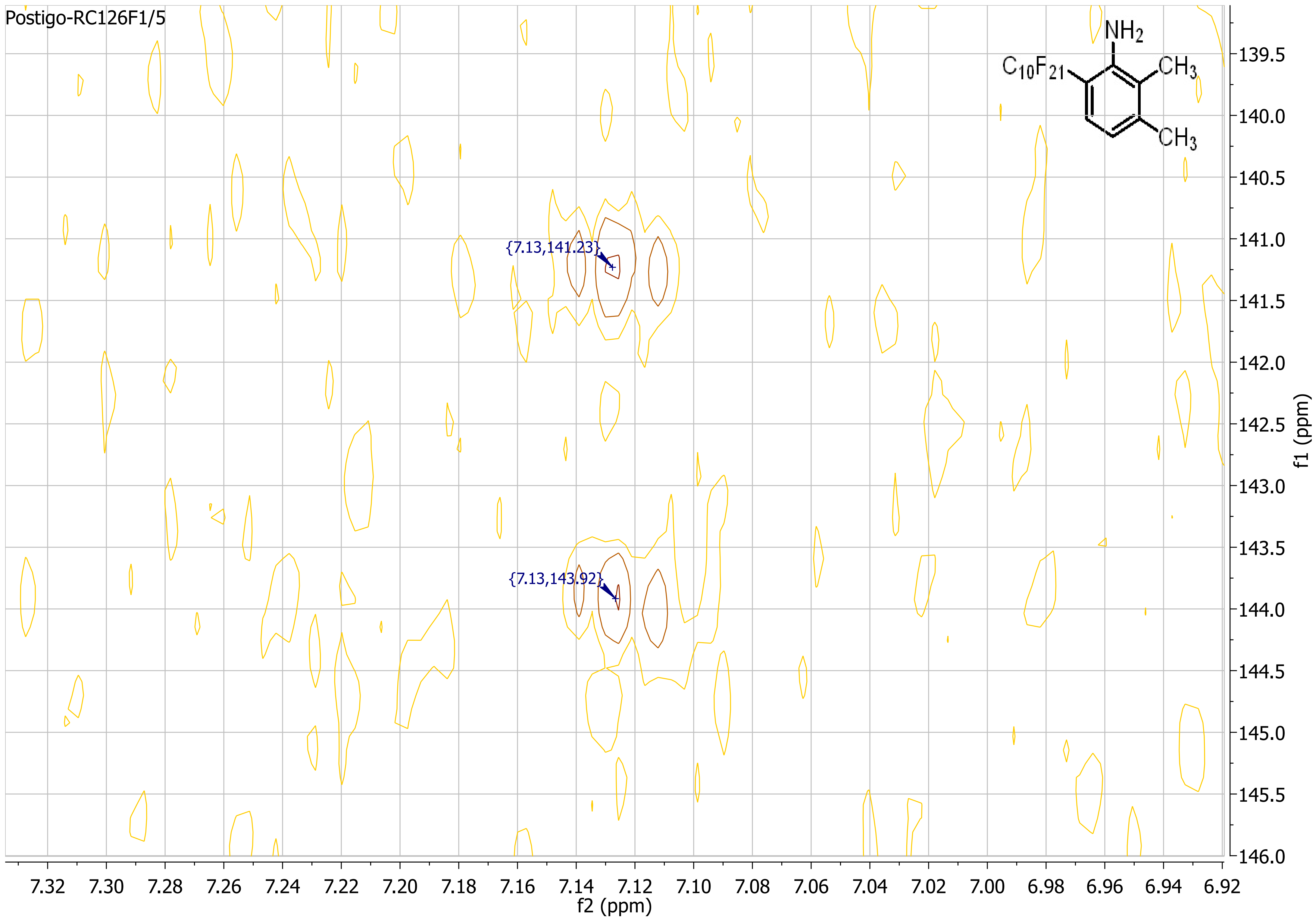
Postigo-RC126F1/2
120.37
120.16
119.80
118.47
118.25
118.03
116.55
116.34
116.11
114.64
114.43
114.21
112.97
112.75
112.18
111.14
111.06
110.91
110.72
110.69
110.51
110.38
110.17
109.29
109.07
108.94
108.87
108.79
108.73
108.69
108.57
108.52
107.17
106.96
106.74
95.90
95.63
95.35
93.78
93.50
93.22
91.65
91.37
91.10
f1 (ppm)

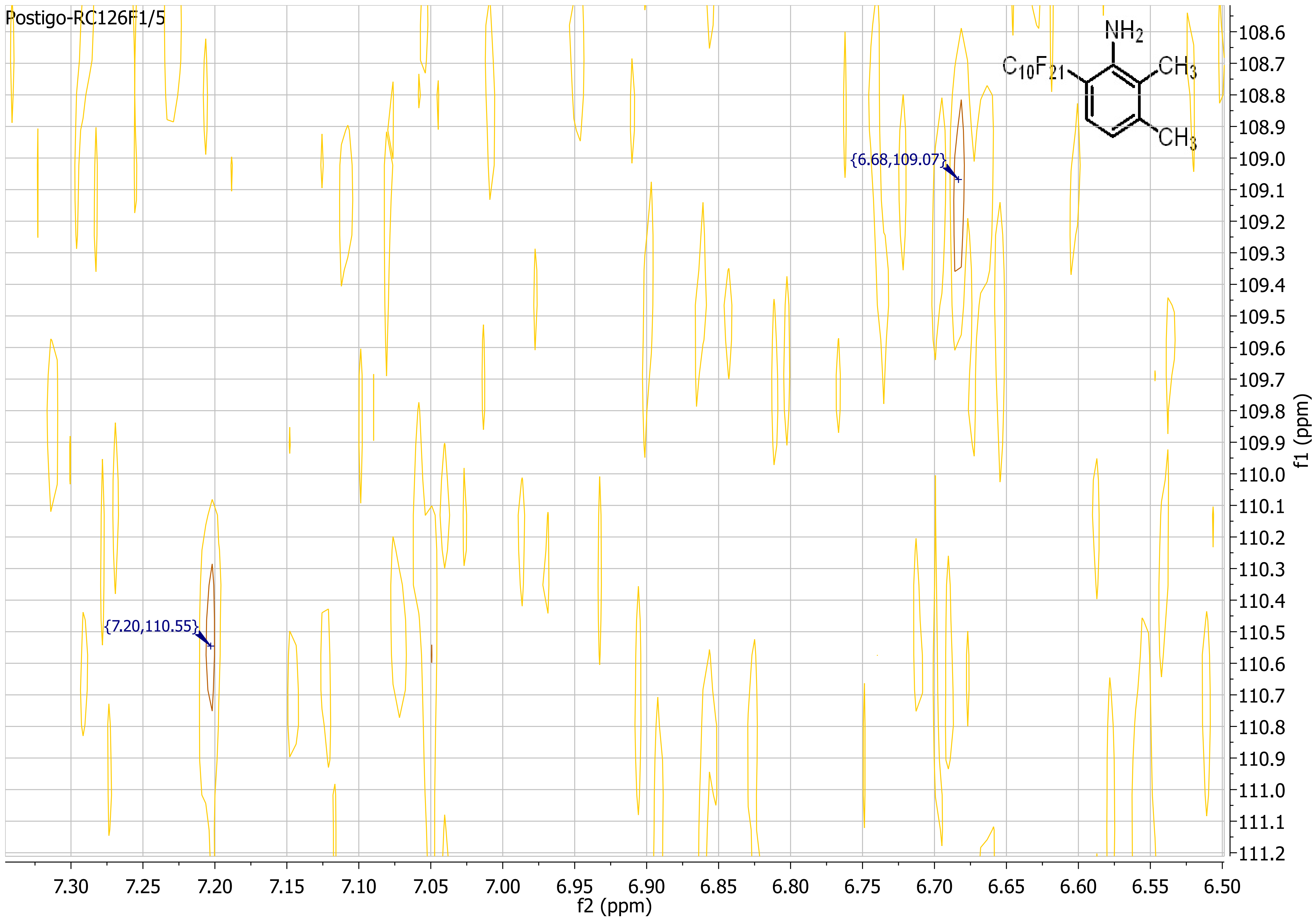


Postigo-RC126F1/4
{2.14,12.62}
{2.33,20.87}
NH2
C10F21
CH3
CH3
f2 (ppm)
f1 (ppm)

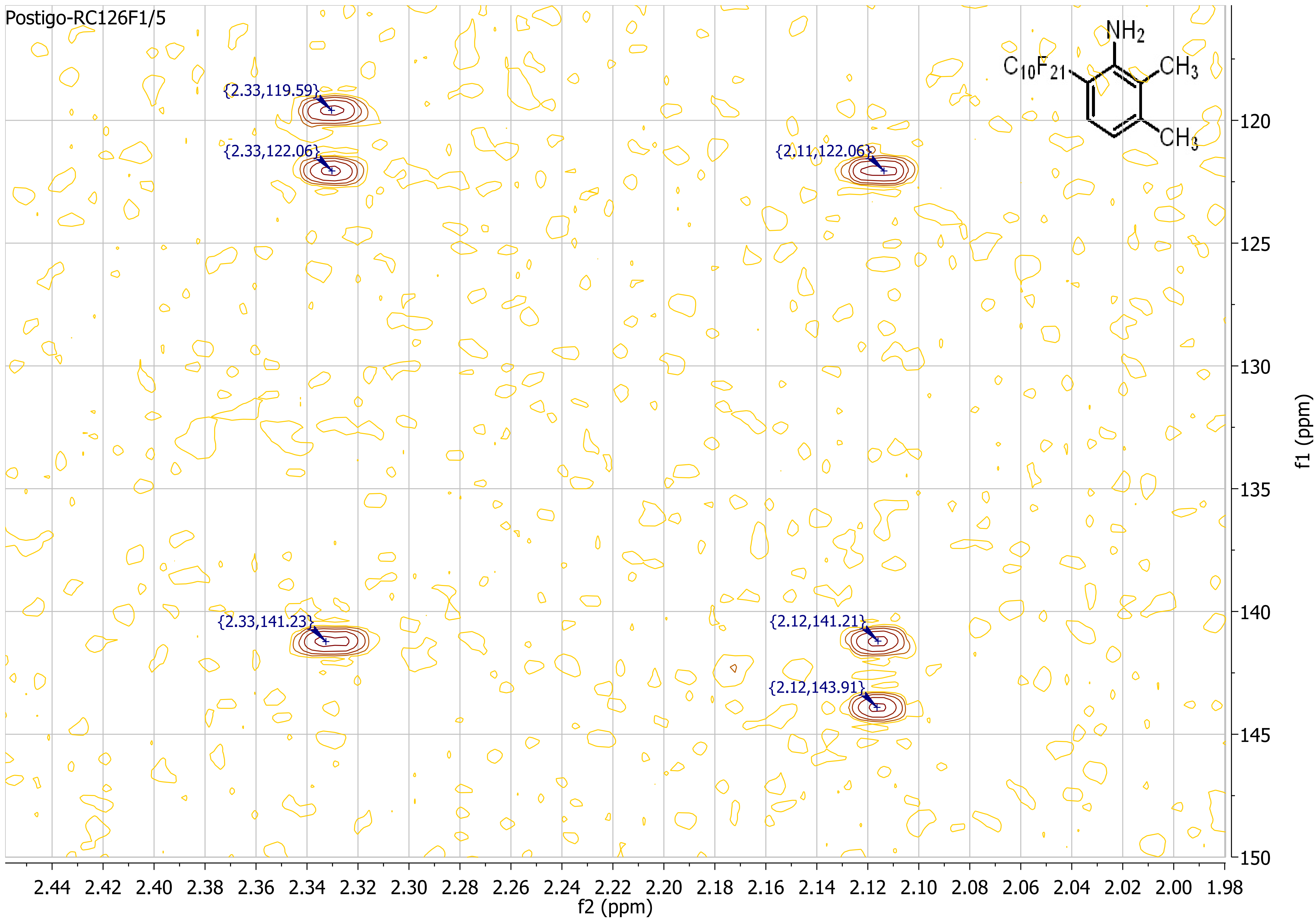


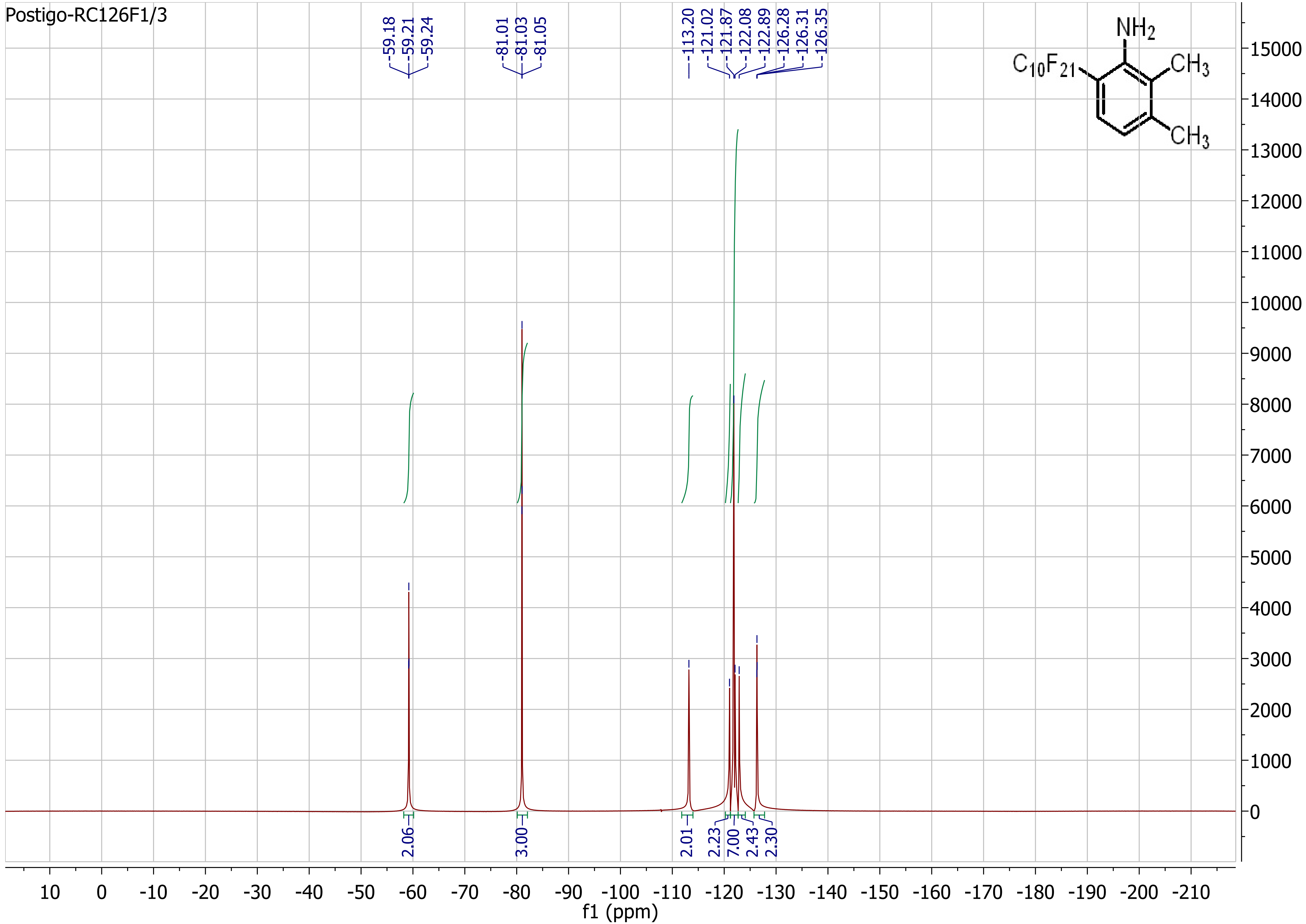
Postigo-RC126F1/4
NH2
C10F21
CH3
CH3
{6.68,119.61}
{7.12,125.87}
117
118
119
120
121
122
123
124
125
126
127
f1 (ppm)
7.20
7.15
7.10
7.05
7.00
6.95
6.90
6.85
6.80
6.75
6.70
6.65
6.60
6.55
6.50
6.45
f2 (ppm)


Postigo-RC126F1/5
{7.13,141.23}
{7.13,143.92}
NH2
C10F21
CH3
CH3
f2 (ppm)
f1 (ppm)
7.32 7.30 7.28 7.26 7.24 7.22 7.20 7.18 7.16 7.14 7.12 7.10 7.08 7.06 7.04 7.02 7.00 6.98 6.96 6.94 6.92
139.5 140.0 140.5 141.0 141.5 142.0 142.5 143.0 143.5 144.0 144.5 145.0 145.5 146.0

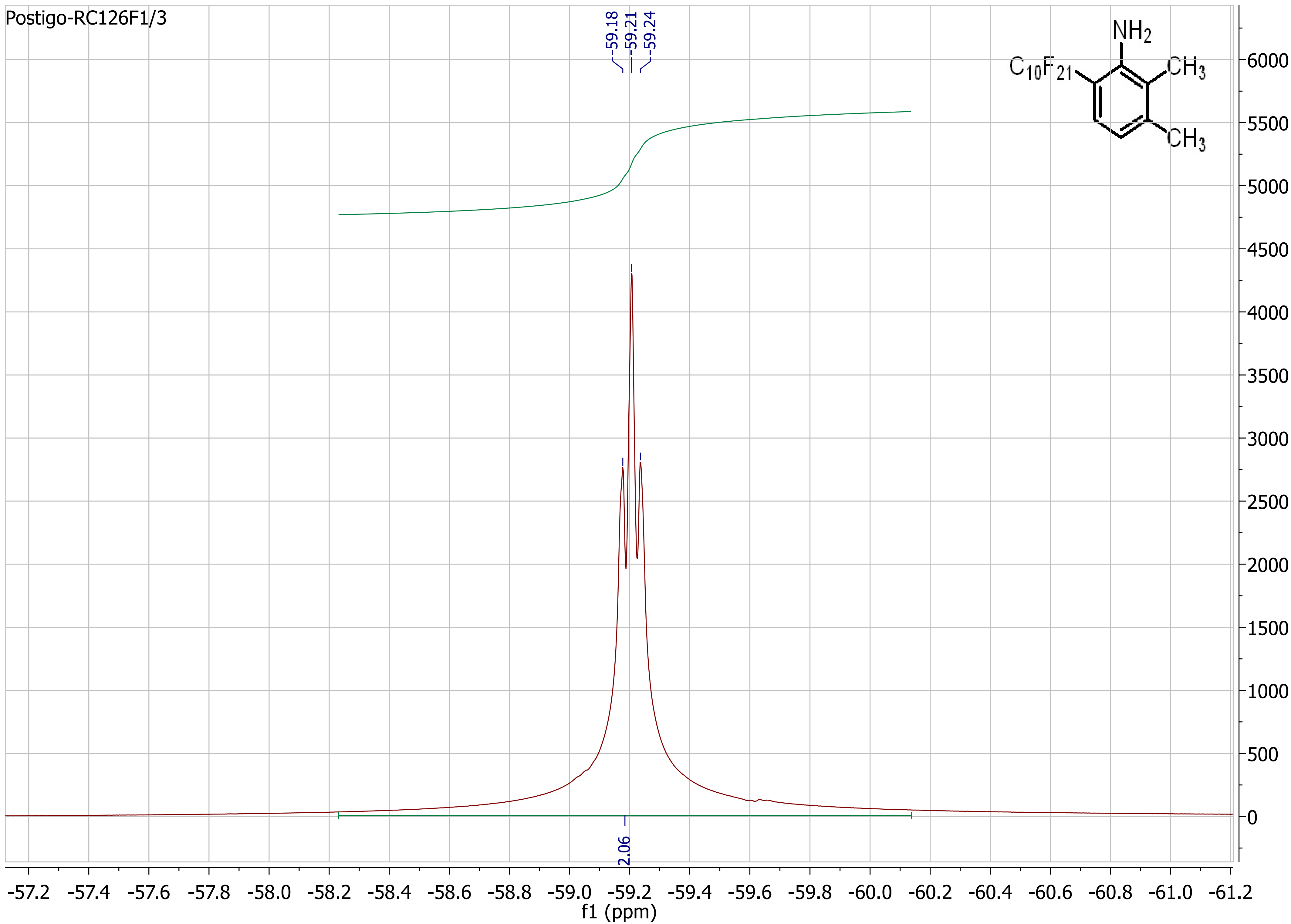


Postigo-RC126F1/5
NH2
C10F21
CH3
CH3
{6.68,109.07}
{7.20,110.55}
f2 (ppm)
f1 (ppm)

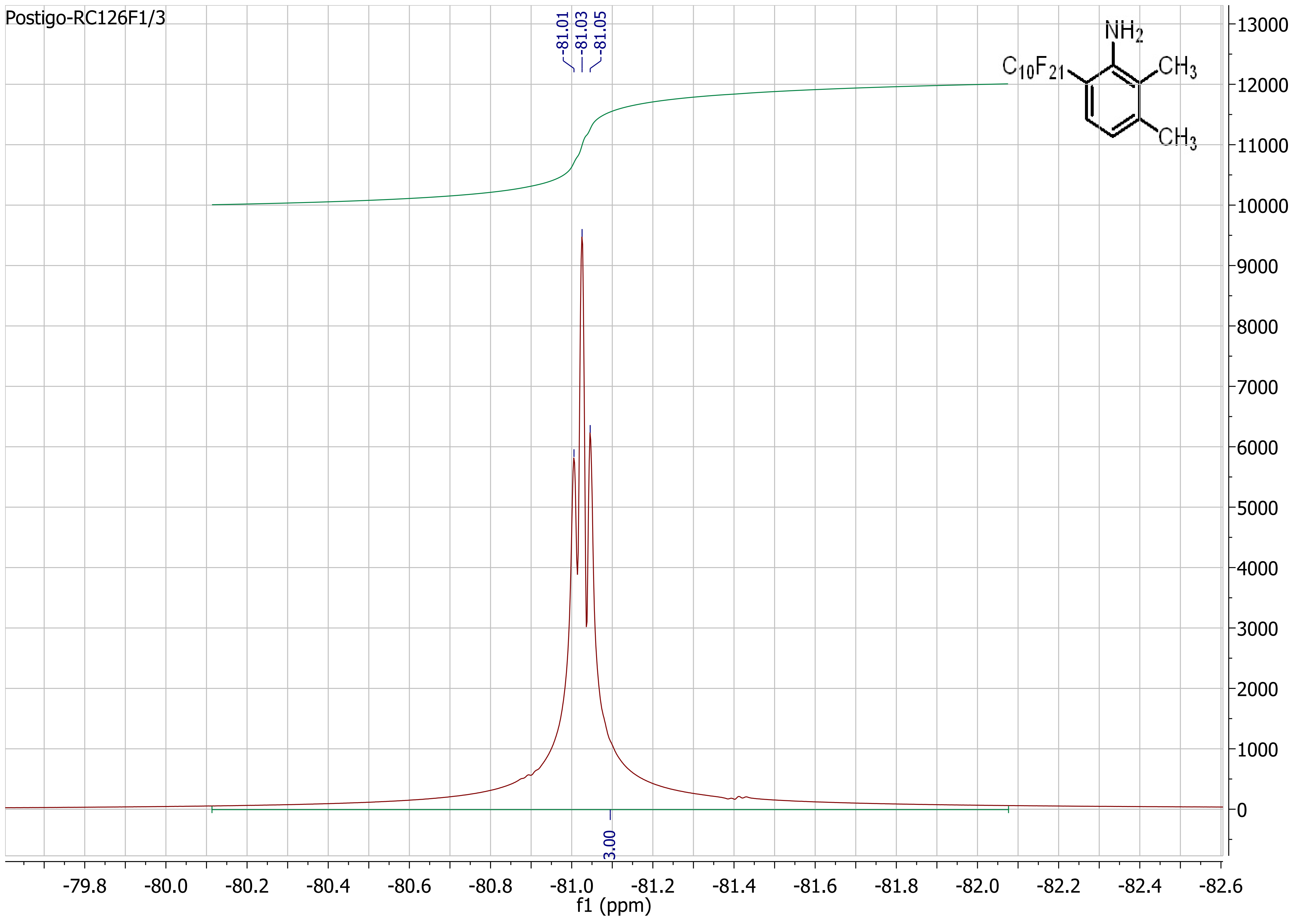

Postigo-RC126F1/5
{2.33,119.59}
{2.33,122.06}
{2.11,122.06}
{2.33,141.23}
{2.12,141.21}
{2.12,143.91}
NH_2
$C_{10}F_{21}$
CH_3
CH_3
f2 (ppm)
f1 (ppm)



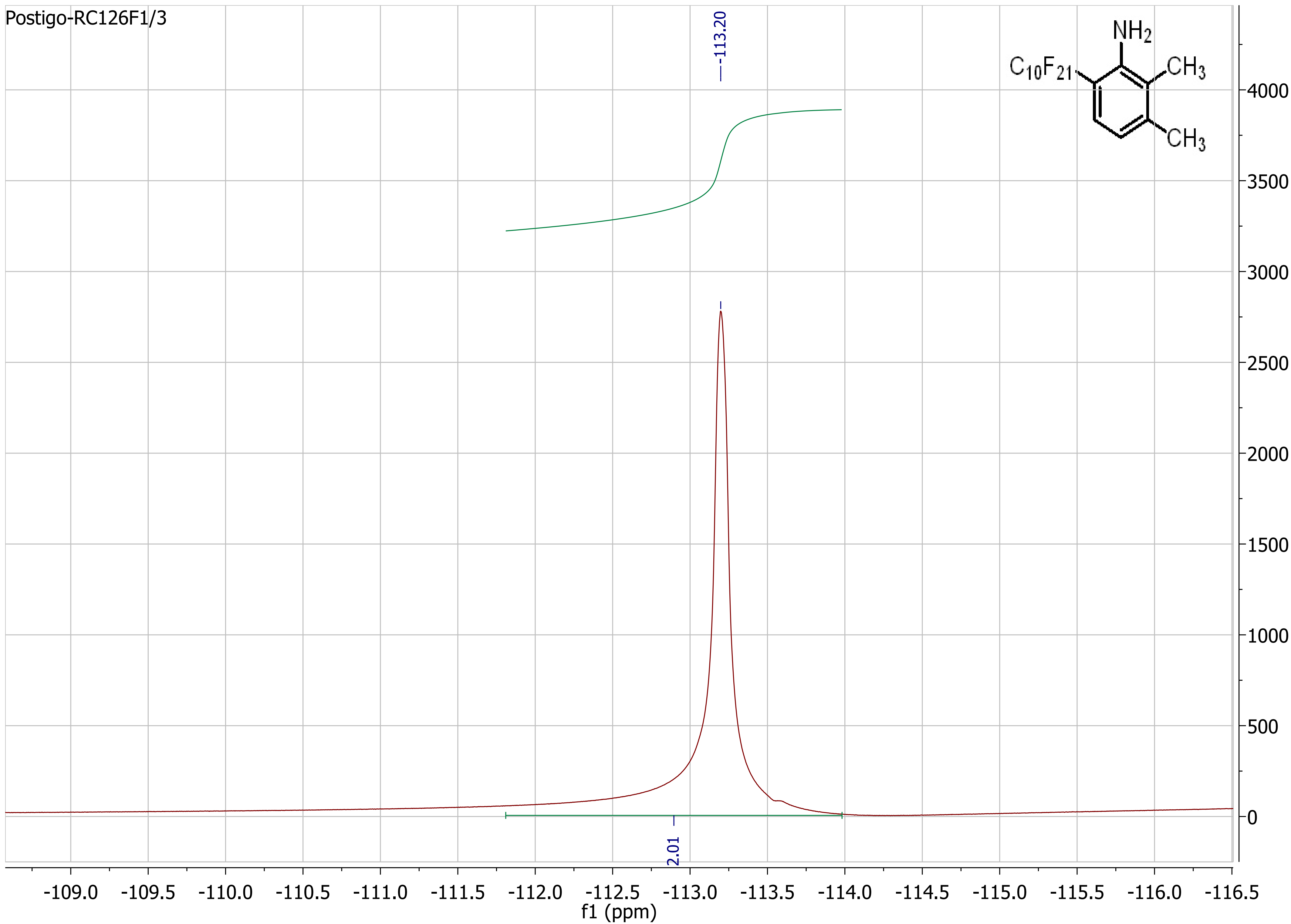
Postigo-RC126F1/3
-59.18
-59.21
-59.24
-81.01
-81.03
-81.05
-113.20
-121.02
-121.87
-122.08
-122.89
-126.28
-126.31
-126.35
NH2
C10F21
CH3
CH3
2.06
3.00
2.01
2.23
7.00
2.43
2.30
f1 (ppm)



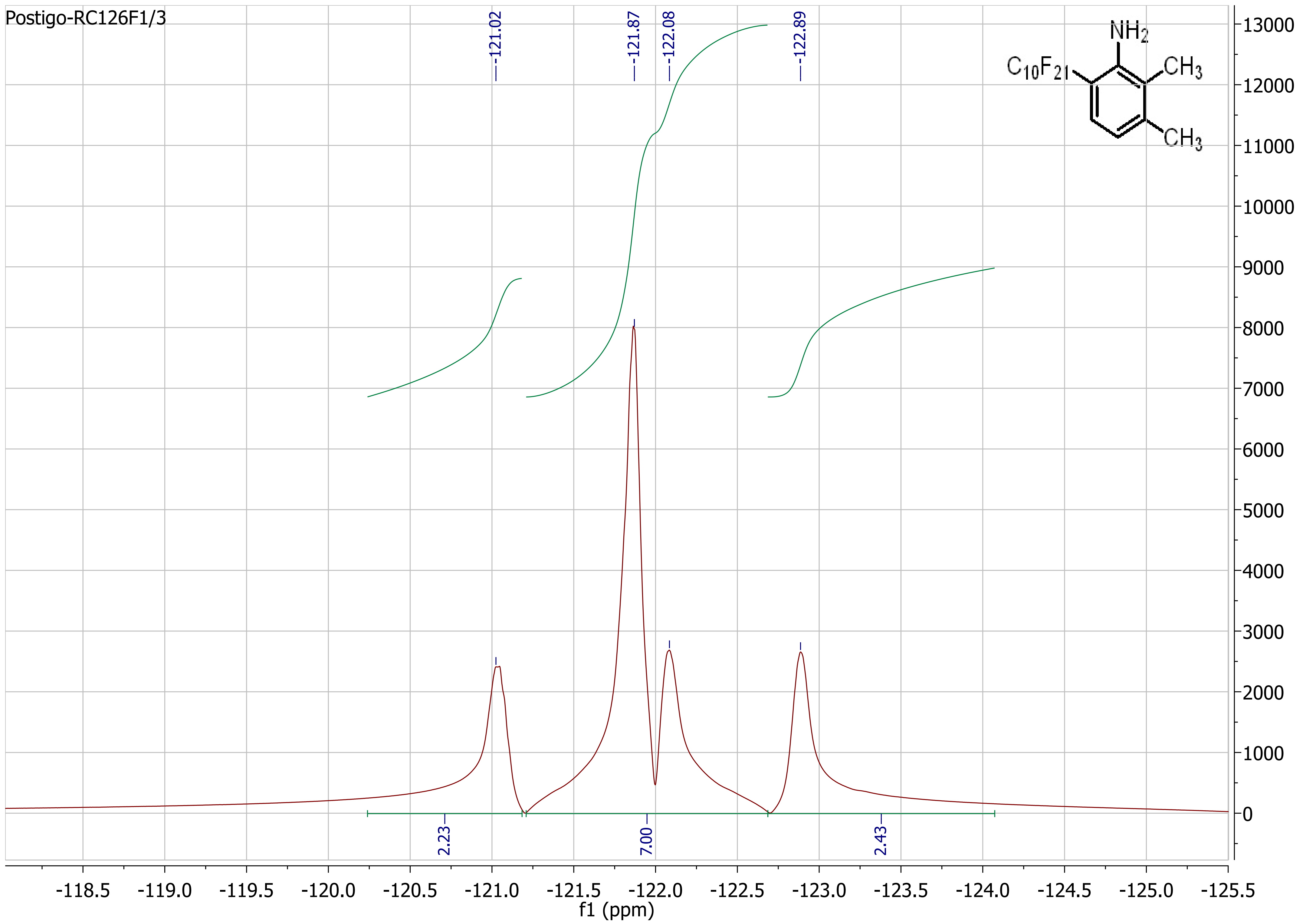
Postigo-RC126F1/3
-59.18
-59.21
-59.24
NH2
C10F21
CH3
CH3
2.06
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-57.2 -57.4 -57.6 -57.8 -58.0 -58.2 -58.4 -58.6 -58.8 -59.0 -59.2 -59.4 -59.6 -59.8 -60.0 -60.2 -60.4 -60.6 -60.8 -61.0 -61.2
f1 (ppm)



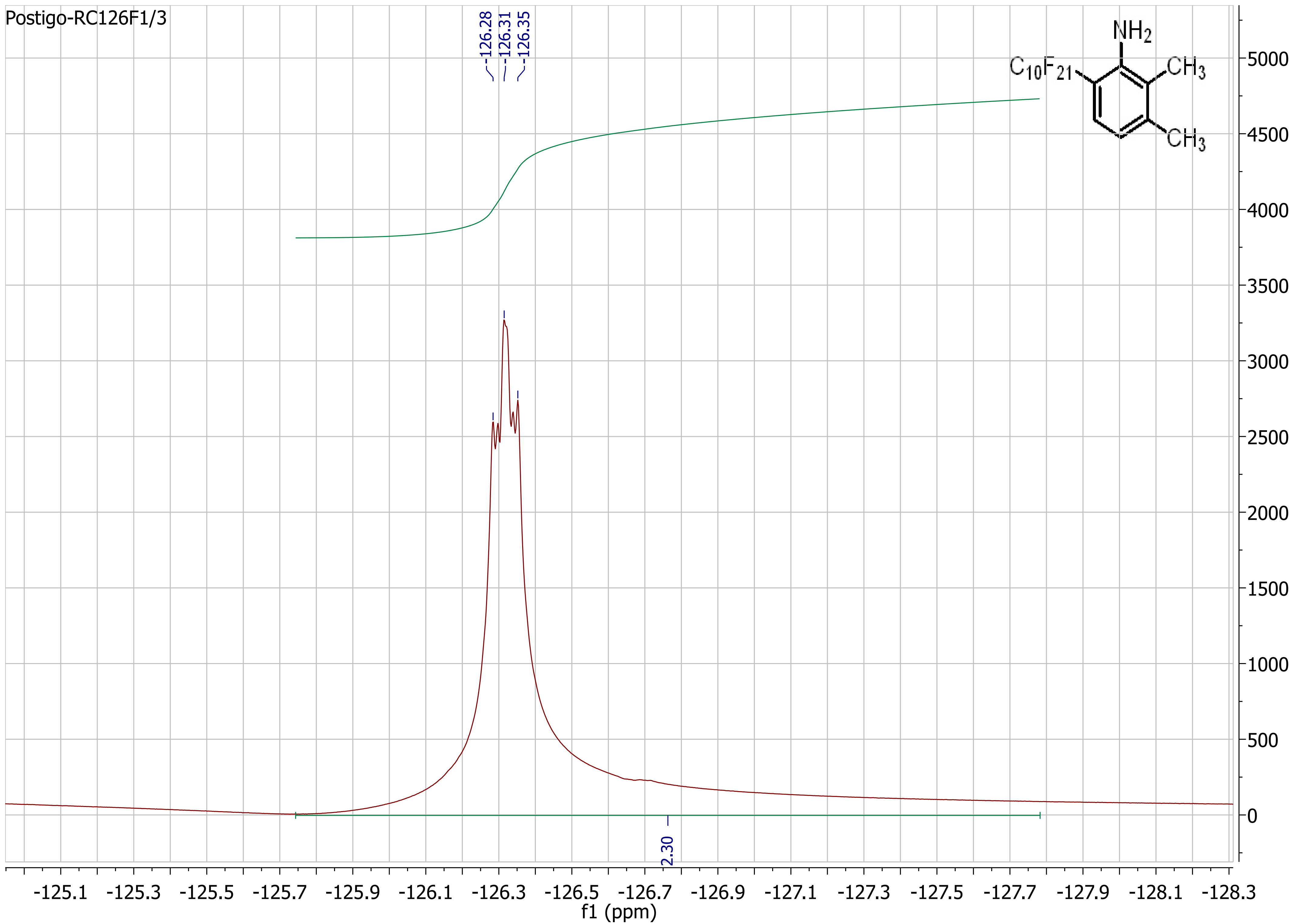
Postigo-RC126F1/3
-81.01
-81.03
-81.05
NH2
C10F21
CH3
CH3
3.00
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-79.8
-80.0
-80.2
-80.4
-80.6
-80.8
-81.0
-81.2
-81.4
-81.6
-81.8
-82.0
-82.2
-82.4
-82.6
f1 (ppm)



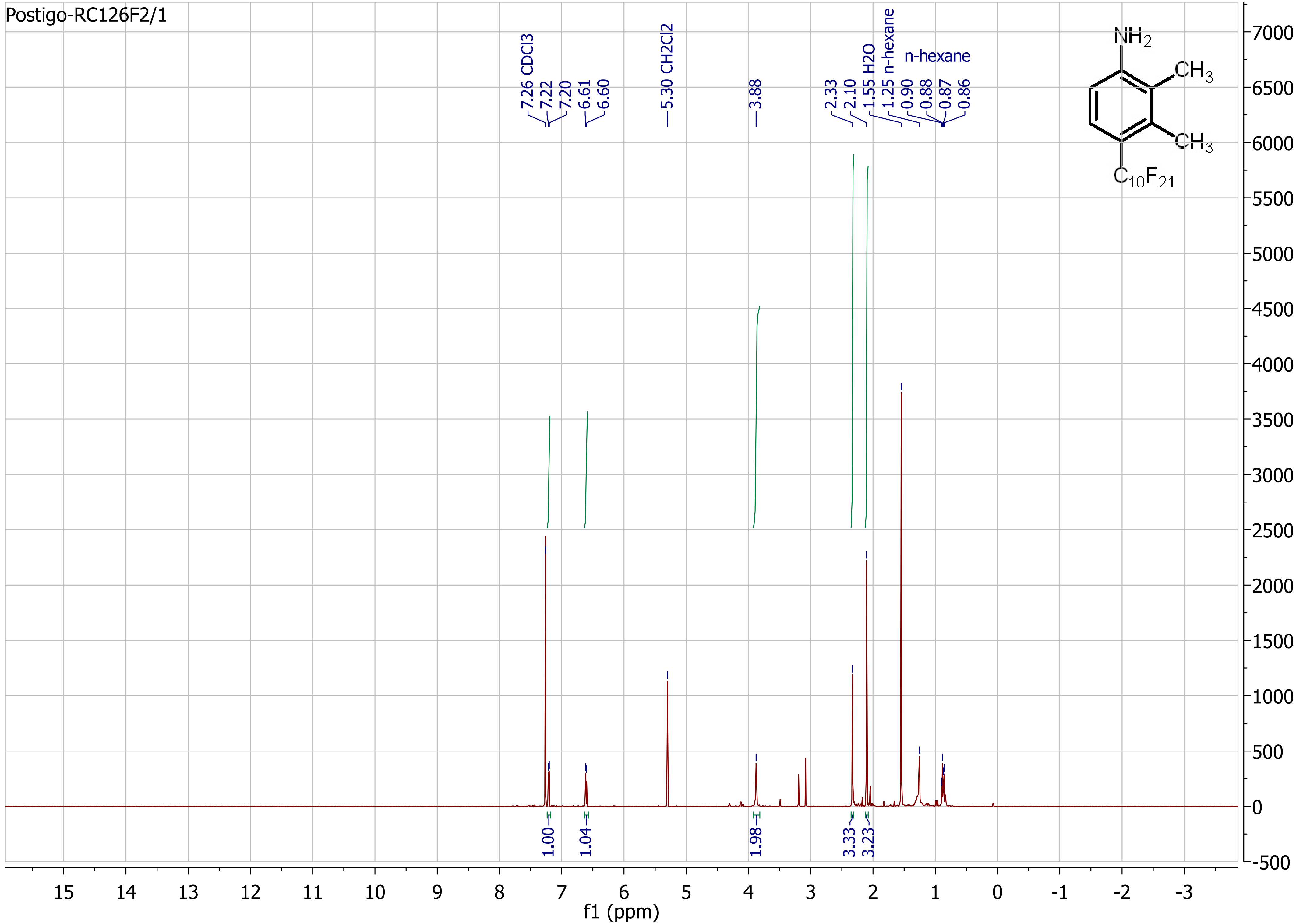
Postigo-RC126F1/3
-113.20
NH2
C10F21
CH3
CH3
2.01
4000
3500
3000
2500
2000
1500
1000
500
0
-109.0 -109.5 -110.0 -110.5 -111.0 -111.5 -112.0 -112.5 -113.0 -113.5 -114.0 -114.5 -115.0 -115.5 -116.0 -116.5
f1 (ppm)



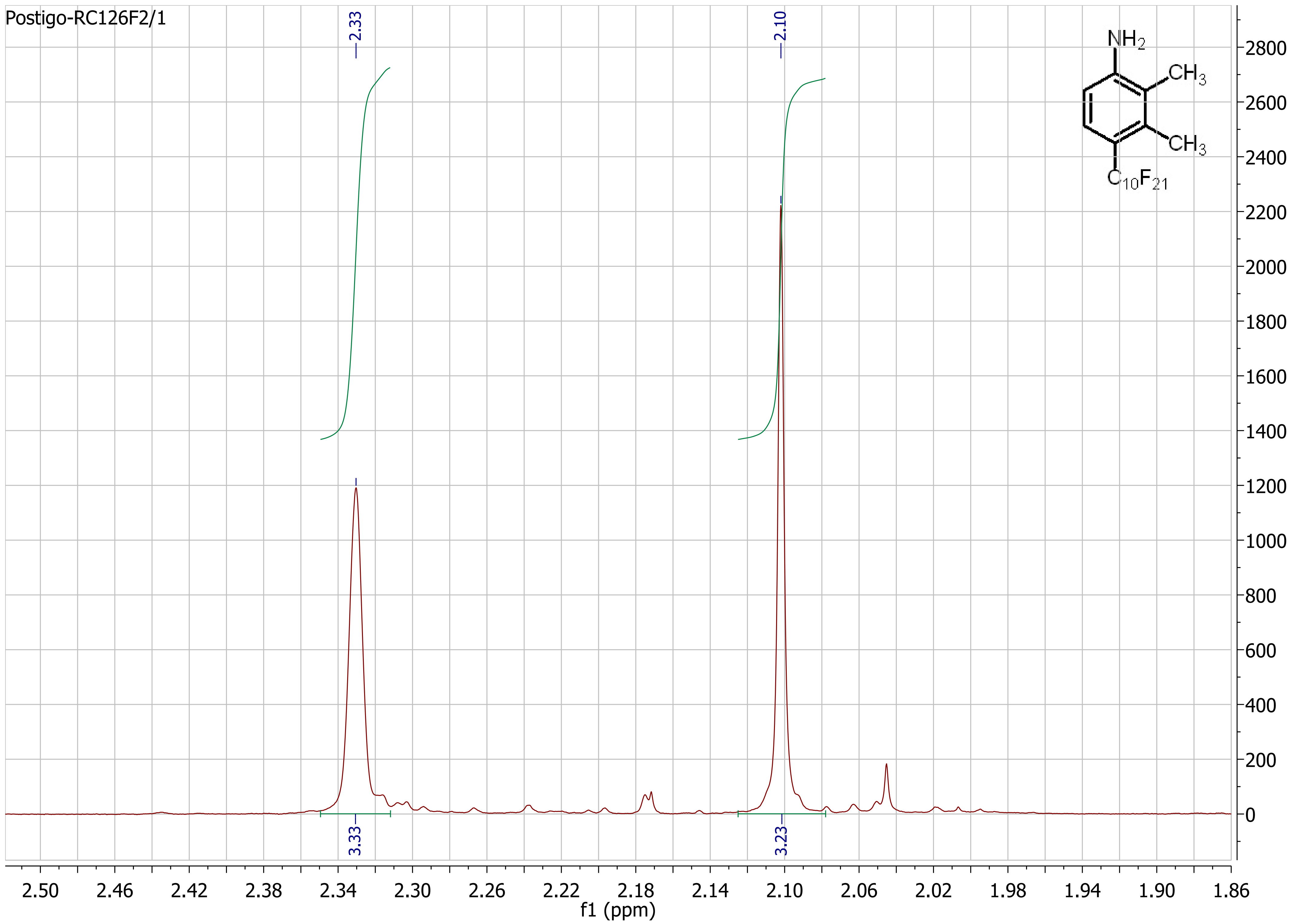
Postigo-RC126F1/3
-121.02
-121.87
-122.08
-122.89
NH_2
$C_{10}F_{21}$
CH_3
CH_3
2.23
7.00
2.43
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-118.5
-119.0
-119.5
-120.0
-120.5
-121.0
-121.5
-122.0
-122.5
-123.0
-123.5
-124.0
-124.5
-125.0
-125.5
f1 (ppm)



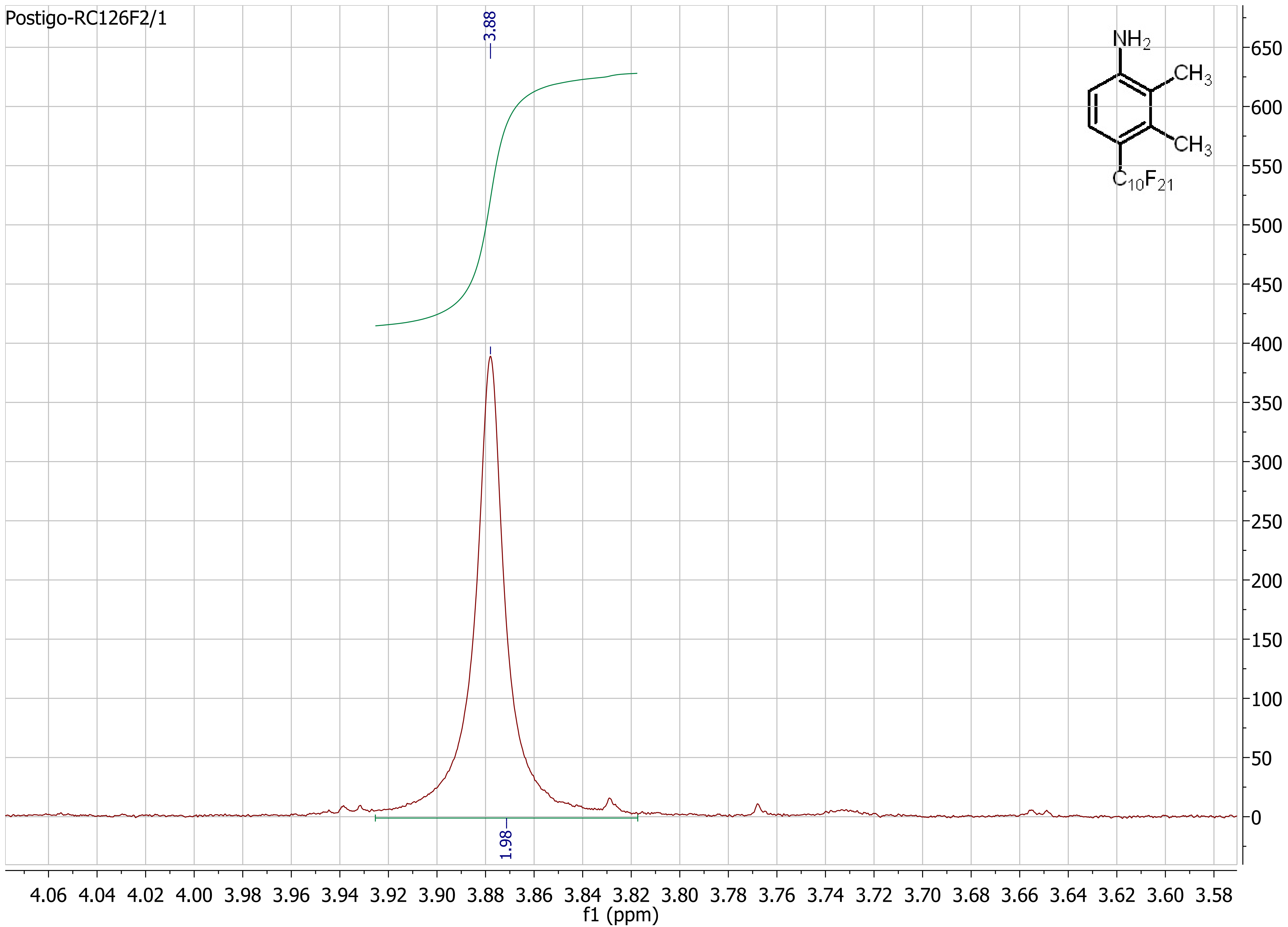
Postigo-RC126F1/3
-126.28
-126.31
-126.35
NH2
C10F21
CH3
CH3
2.30
f1 (ppm)



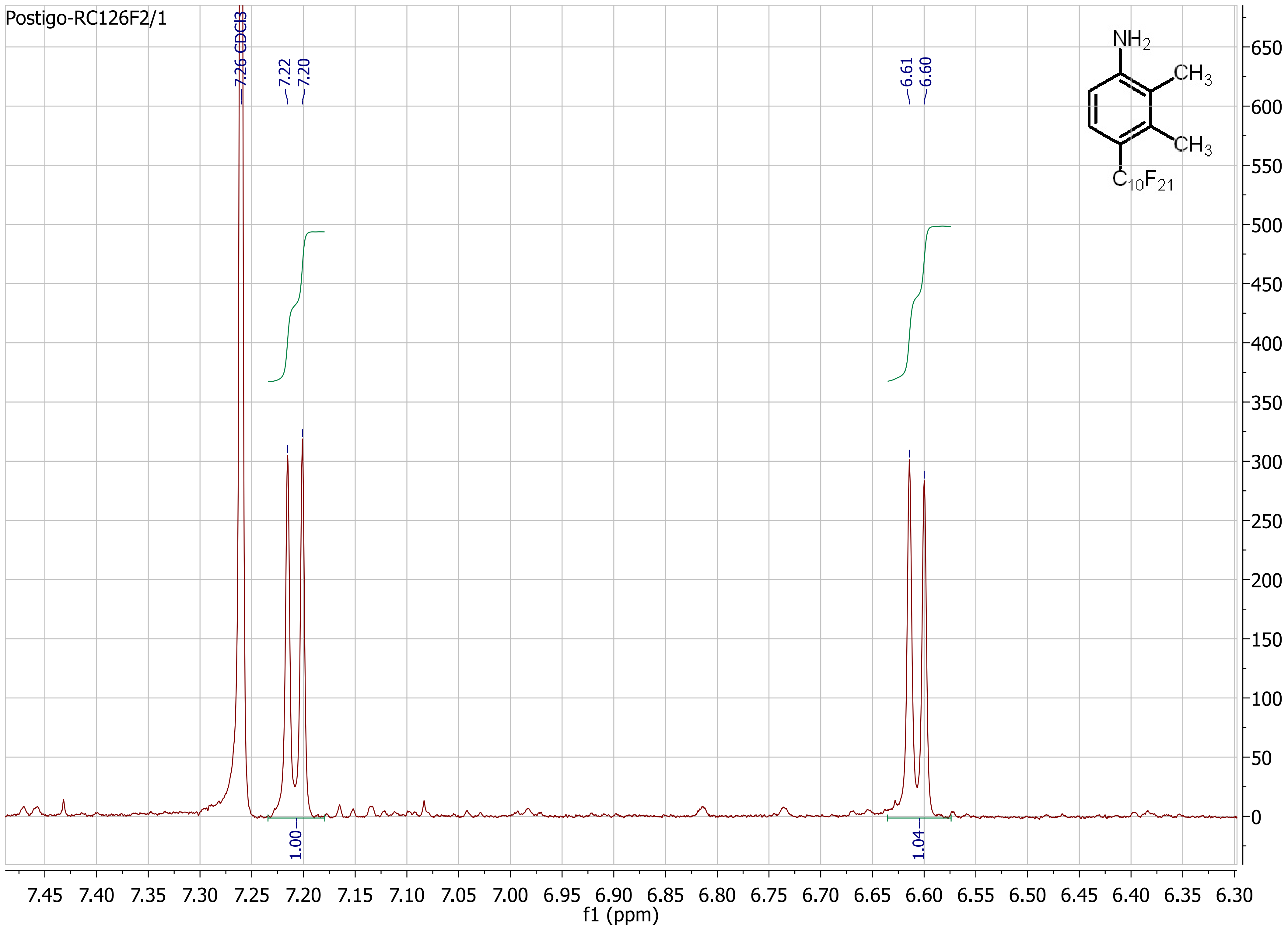
Postigo-RC126F2/1
7.26 CDCl3
7.22
7.20
6.61
6.60
5.30 CH2Cl2
3.88
2.33
2.10
1.55 H2O
1.25 n-hexane
0.90
0.88
0.87
0.86
n-hexane
NH2
CH3
CH3
C10F21
1.00
1.04
1.98
3.33
3.23
f1 (ppm)



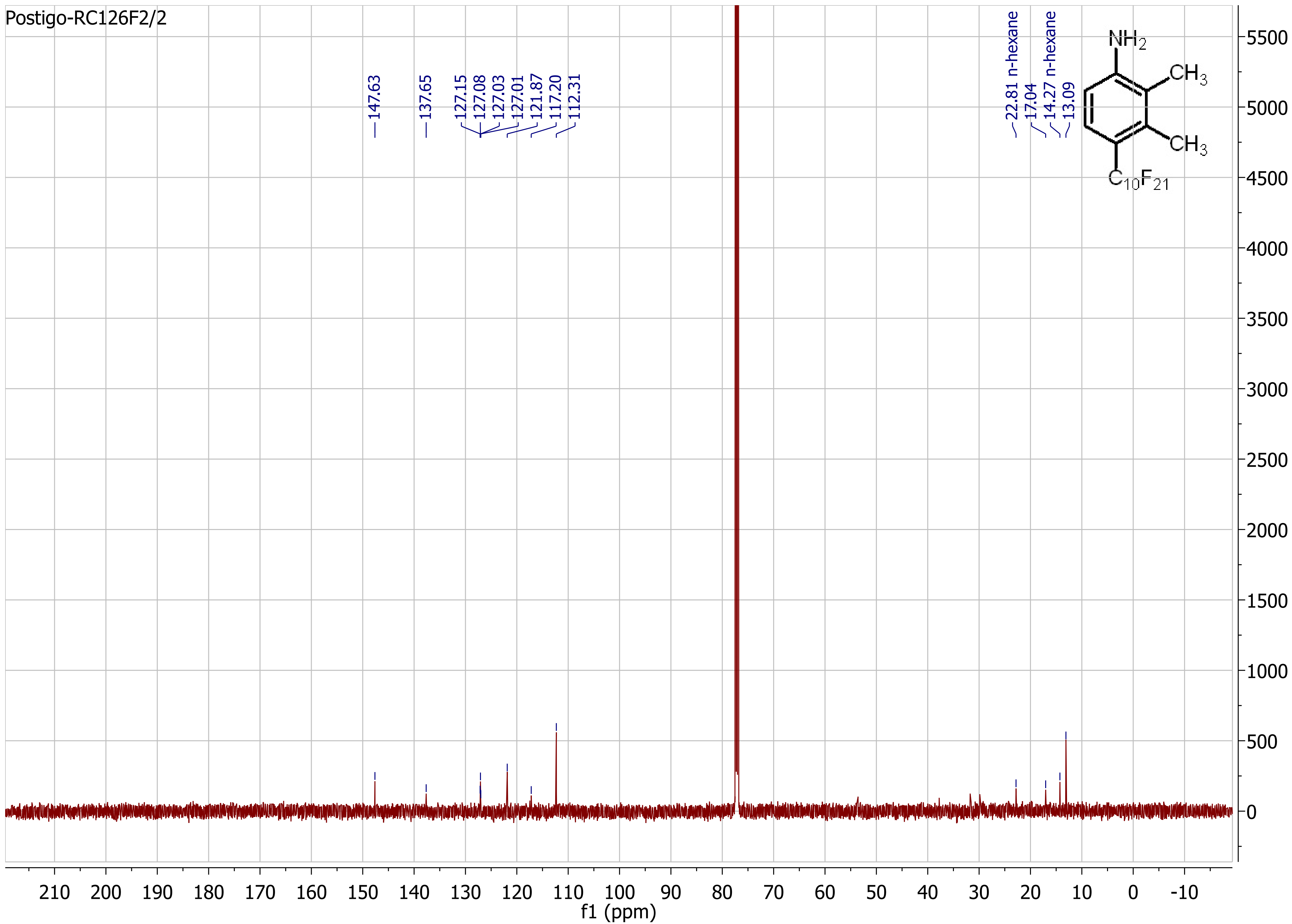
Postigo-RC126F2/1
2.33
2.10
NH_2
CH_3
CH_3
$C_{10}F_{21}$
3.33
3.23
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2.50 2.46 2.42 2.38 2.34 2.30 2.26 2.22 2.18 2.14 2.10 2.06 2.02 1.98 1.94 1.90 1.86
f1 (ppm)



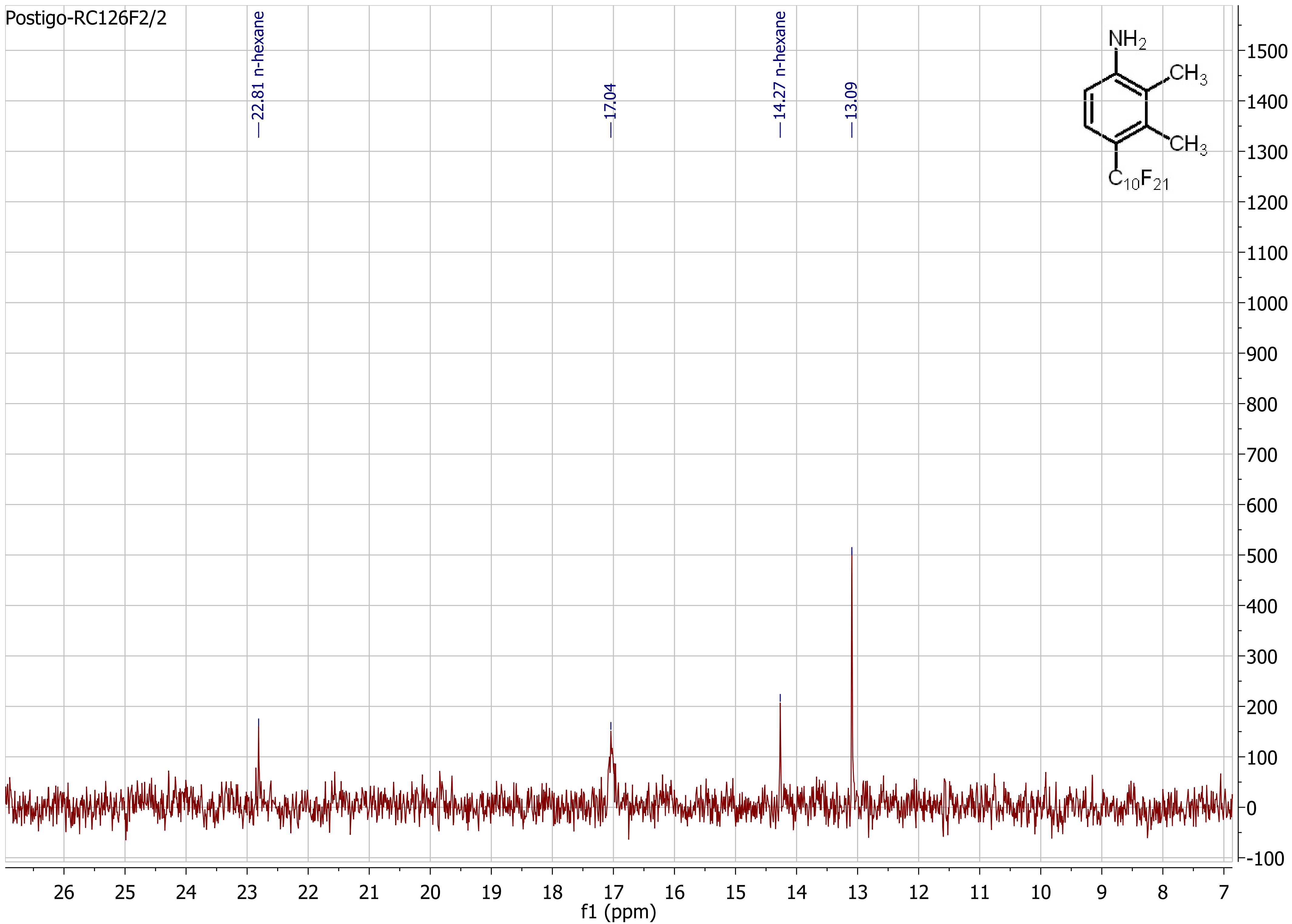
Postigo-RC126F2/1
3.88
NH_2
CH_3
CH_3
$C_{10}F_{21}$
1.98
650
600
550
500
450
400
350
300
250
200
150
100
50
0
4.06 4.04 4.02 4.00 3.98 3.96 3.94 3.92 3.90 3.88 3.86 3.84 3.82 3.80 3.78 3.76 3.74 3.72 3.70 3.68 3.66 3.64 3.62 3.60 3.58
f1 (ppm)



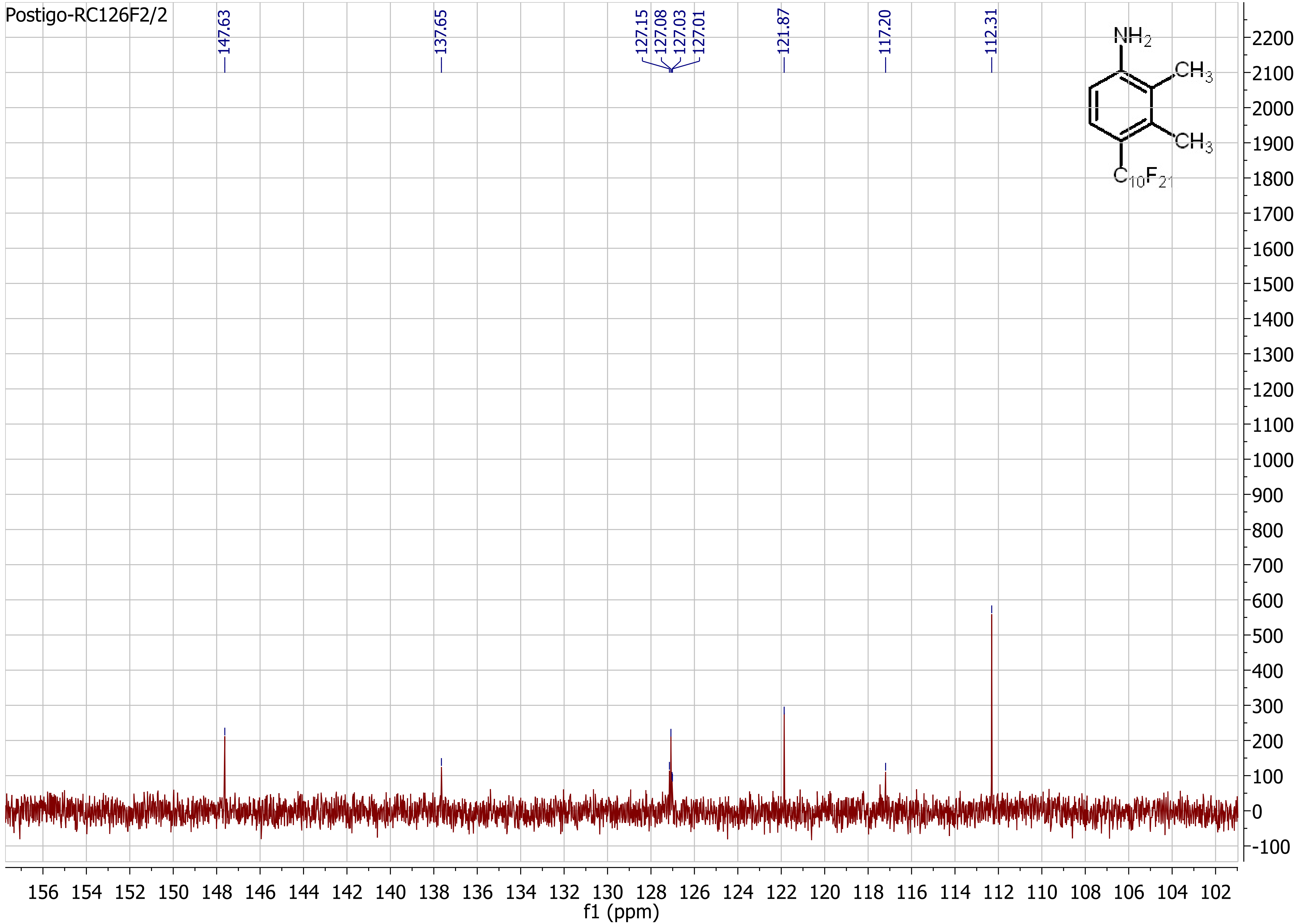
Postigo-RC126F2/1
7.26 CDCl3
7.22
7.20
6.61
6.60
1.00
1.04
NH2
CH3
CH3
C10F21
f1 (ppm)



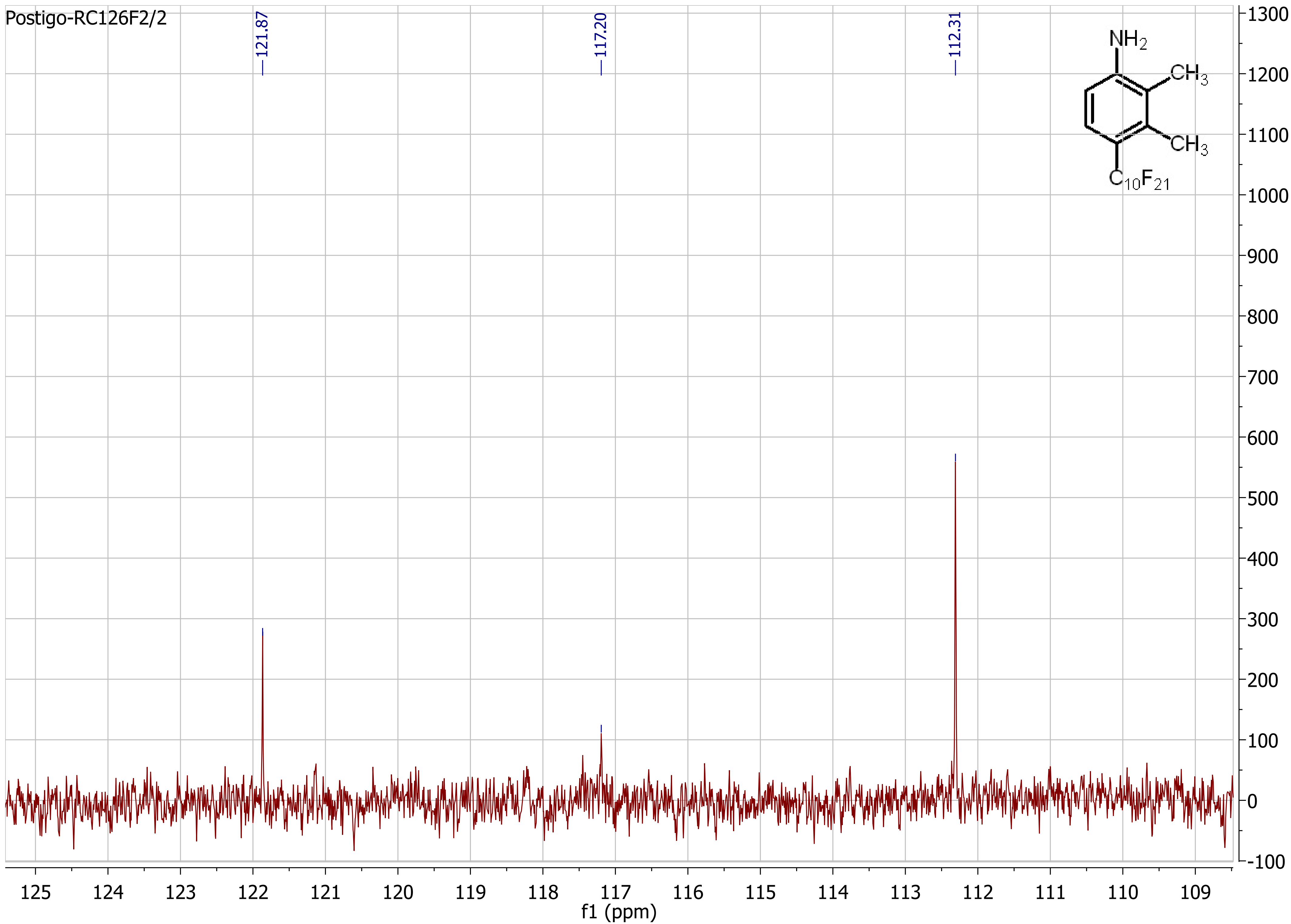
Postigo-RC126F2/2
147.63
137.65
127.15
127.08
127.03
127.01
121.87
117.20
112.31
22.81 n-hexane
17.04
14.27 n-hexane
13.09
NH2
CH3
CH3
C10F21
f1 (ppm)



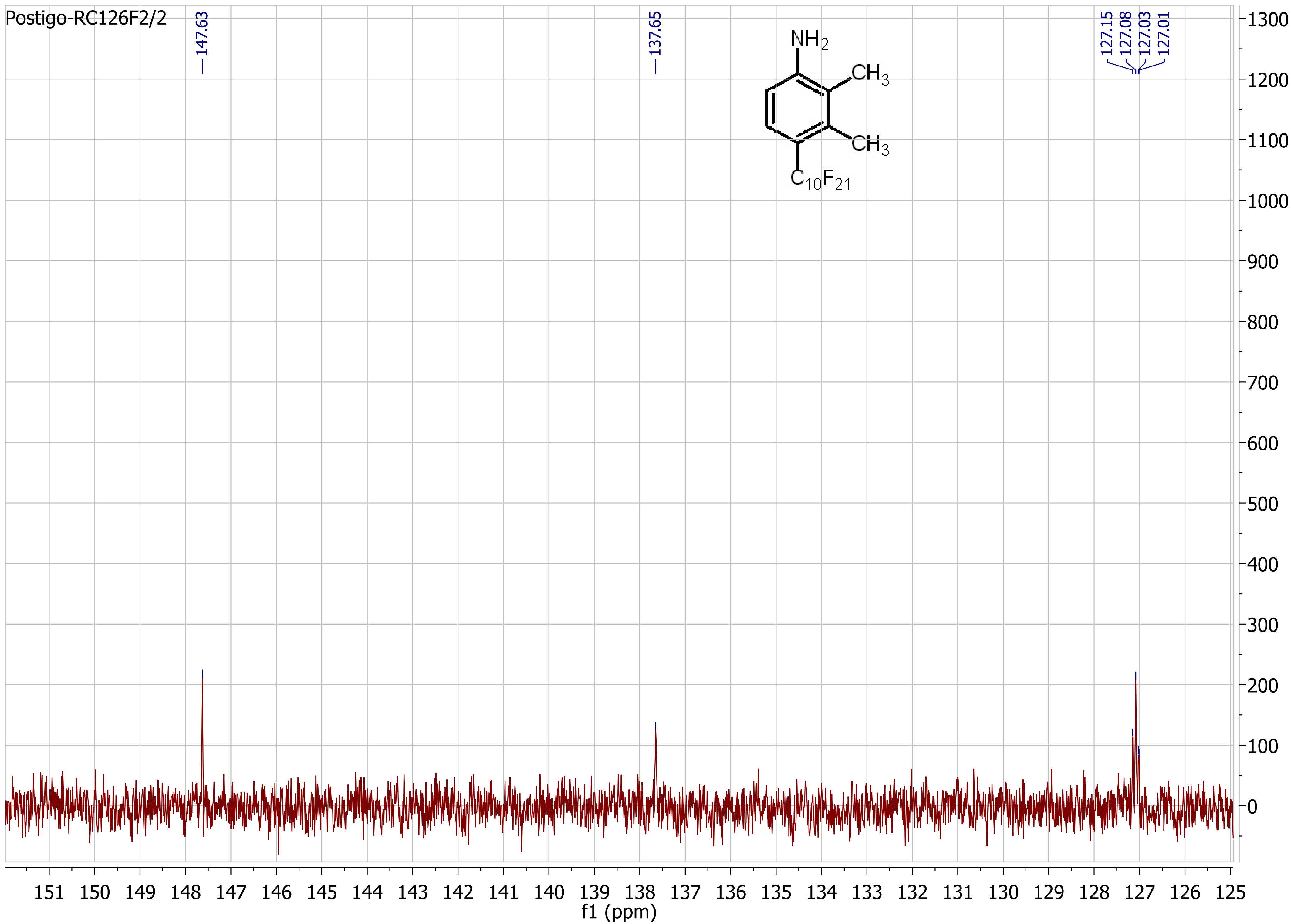
Postigo-RC126F2/2
22.81 n-hexane
17.04
14.27 n-hexane
13.09
NH2
CH3
CH3
C10F21
f1 (ppm)



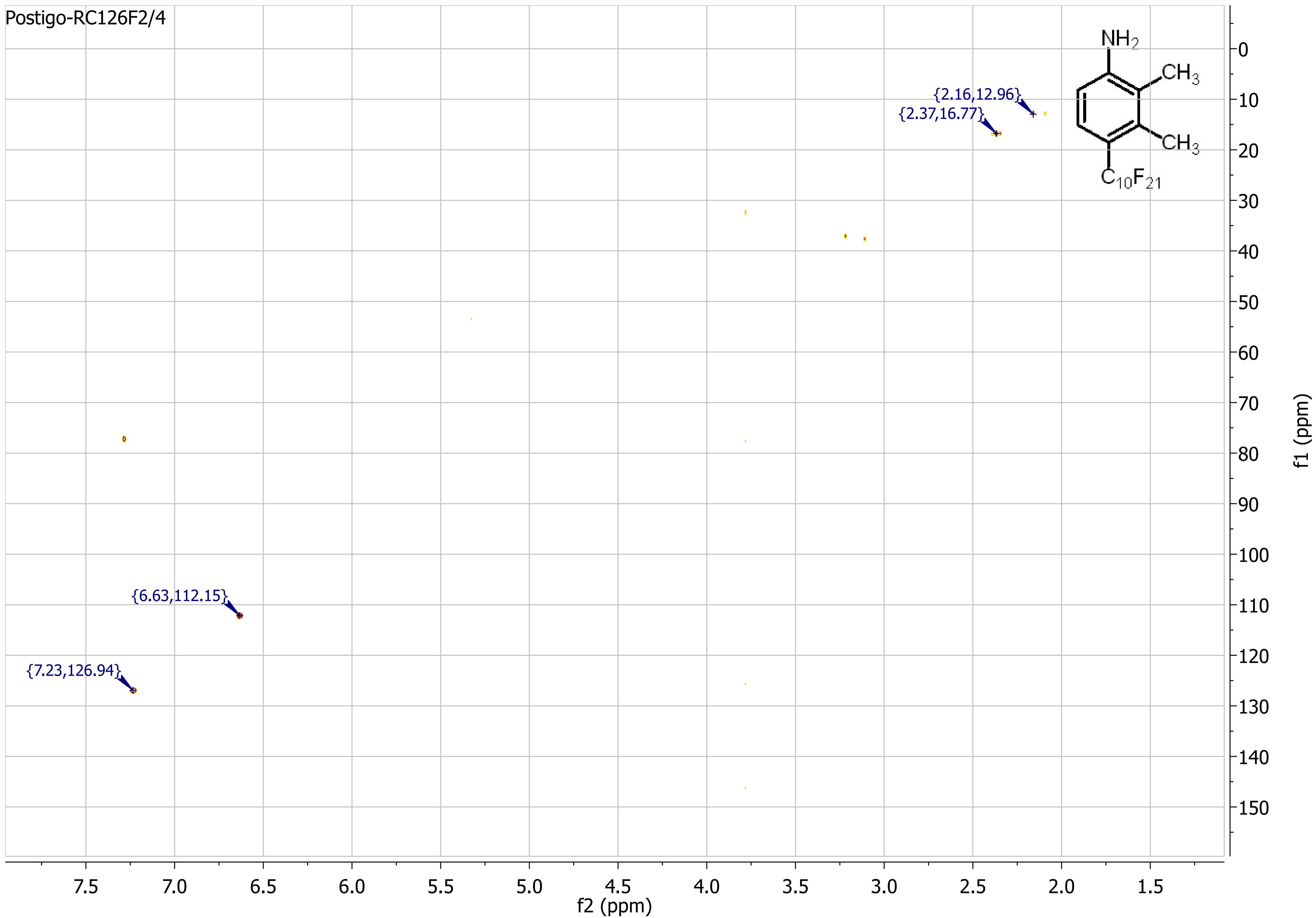
Postigo-RC126F2/2
147.63
137.65
127.15
127.08
127.03
127.01
121.87
117.20
112.31
NH2
CH3
CH3
C10F21
f1 (ppm)

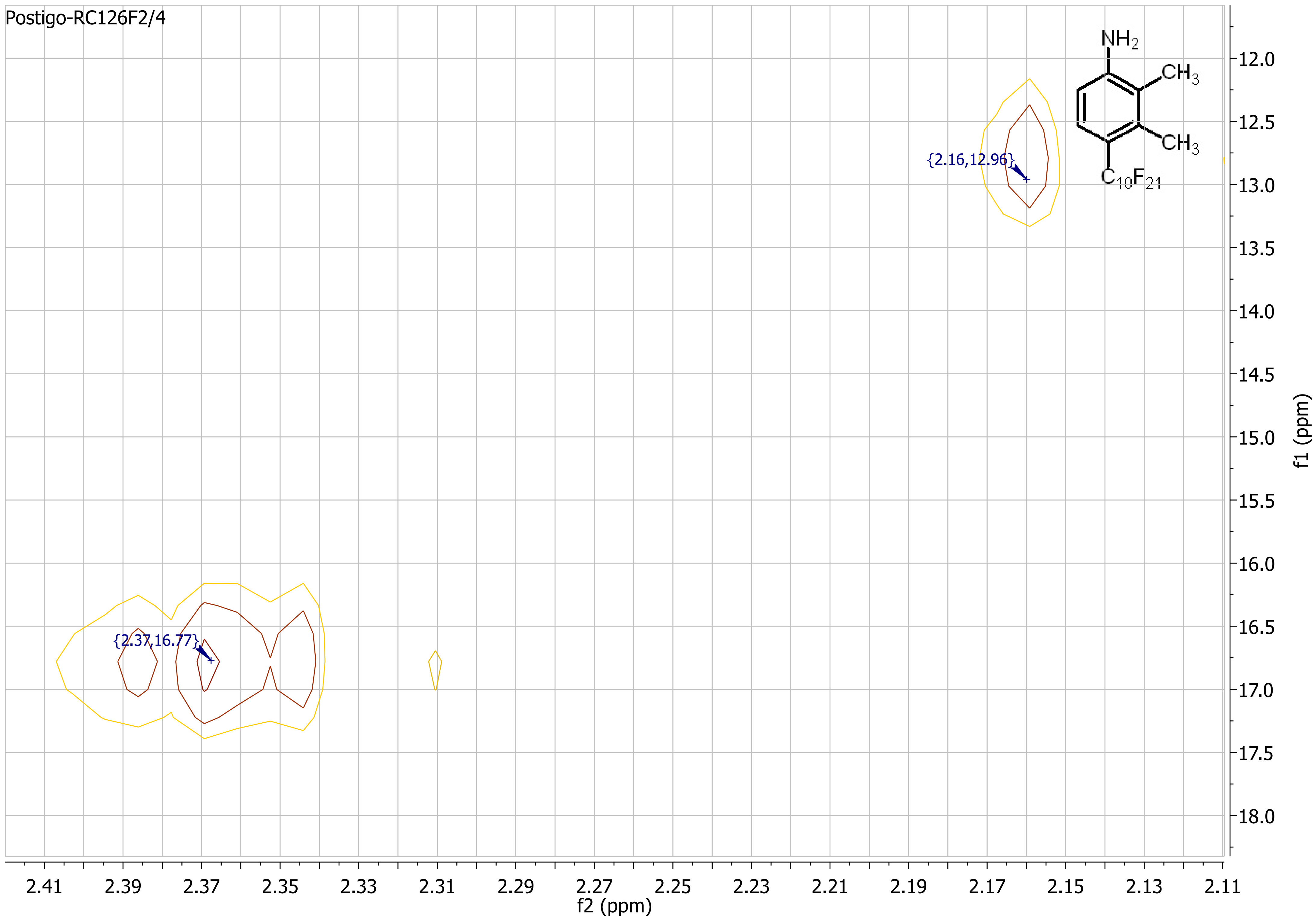


Postigo-RC126F2/2
121.87
117.20
112.31
NH2
CH3
CH3
C10F21
f1 (ppm)

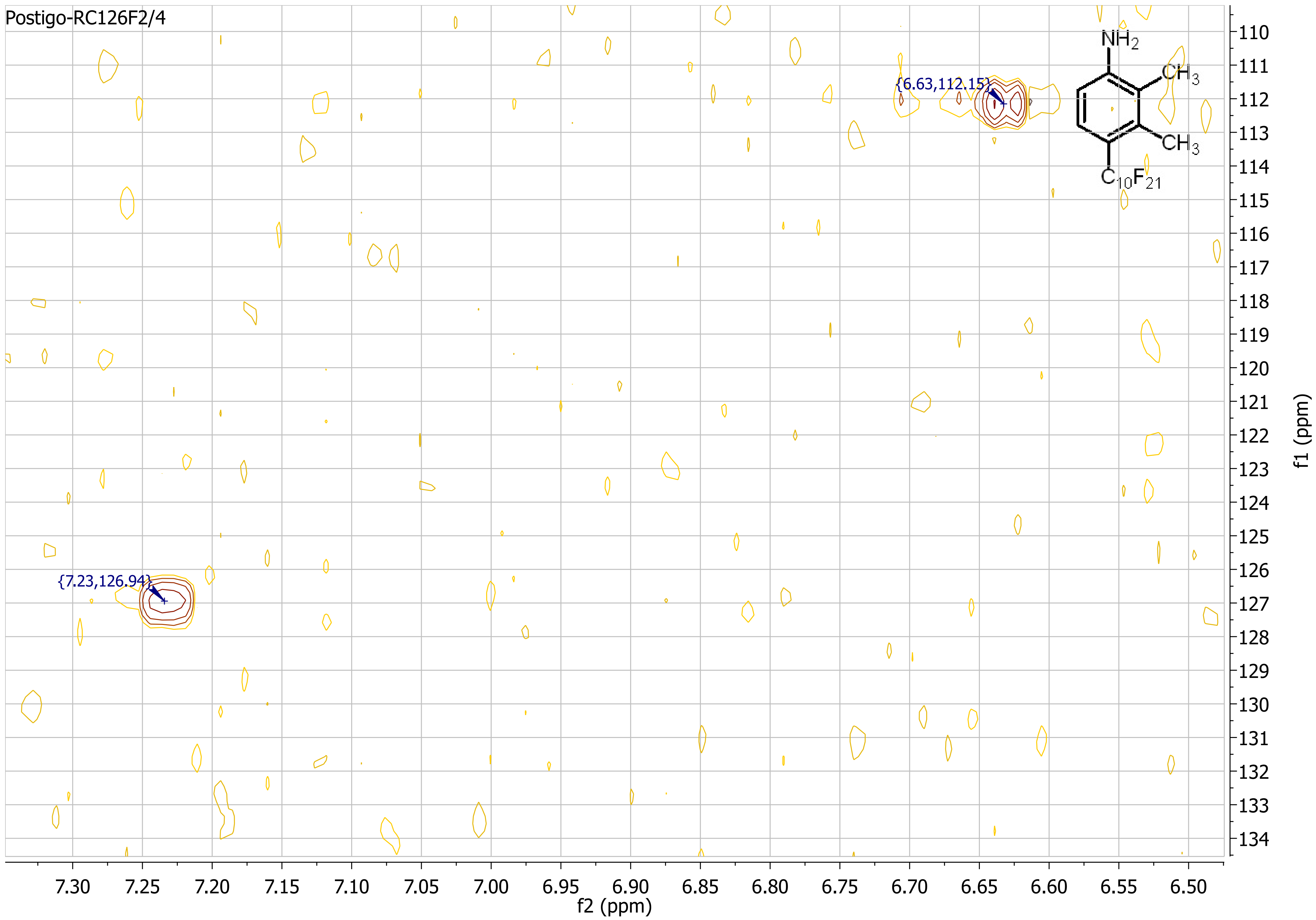


Postigo-RC126F2/2
147.63
137.65
127.15
127.08
127.03
127.01
NH2
CH3
CH3
C10F21
151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125
f1 (ppm)
1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0

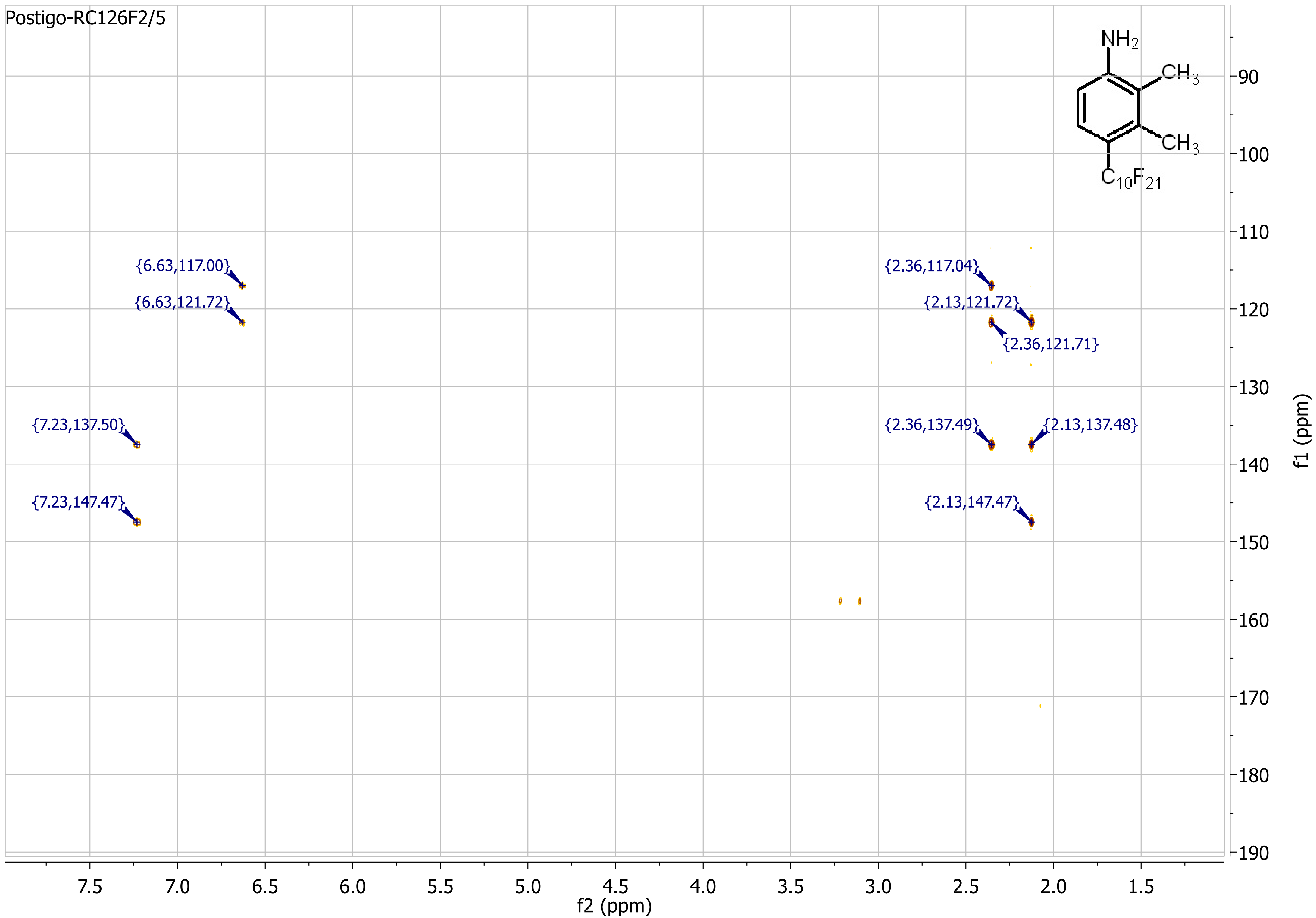

Postigo-RC126F2/4
NH2
CH3
CH3
C10F21
{2.16,12.96}
{2.37,16.77}
{6.63,112.15}
{7.23,126.94}
f2 (ppm)
f1 (ppm)



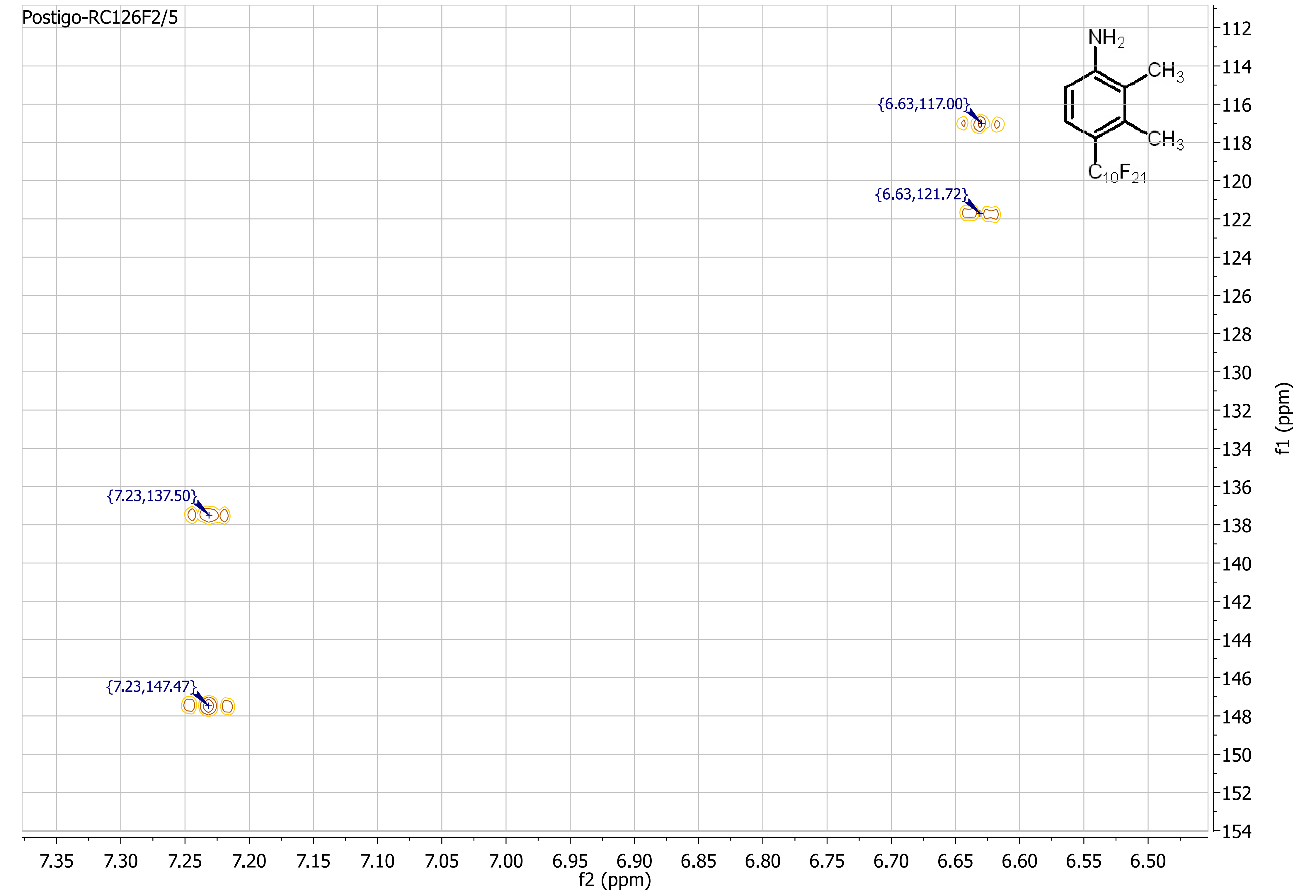
Postigo-RC126F2/4
{2.16,12.96}
{2.37,16.77}
NH2
CH3
CH3
C10F21
f2 (ppm)
f1 (ppm)

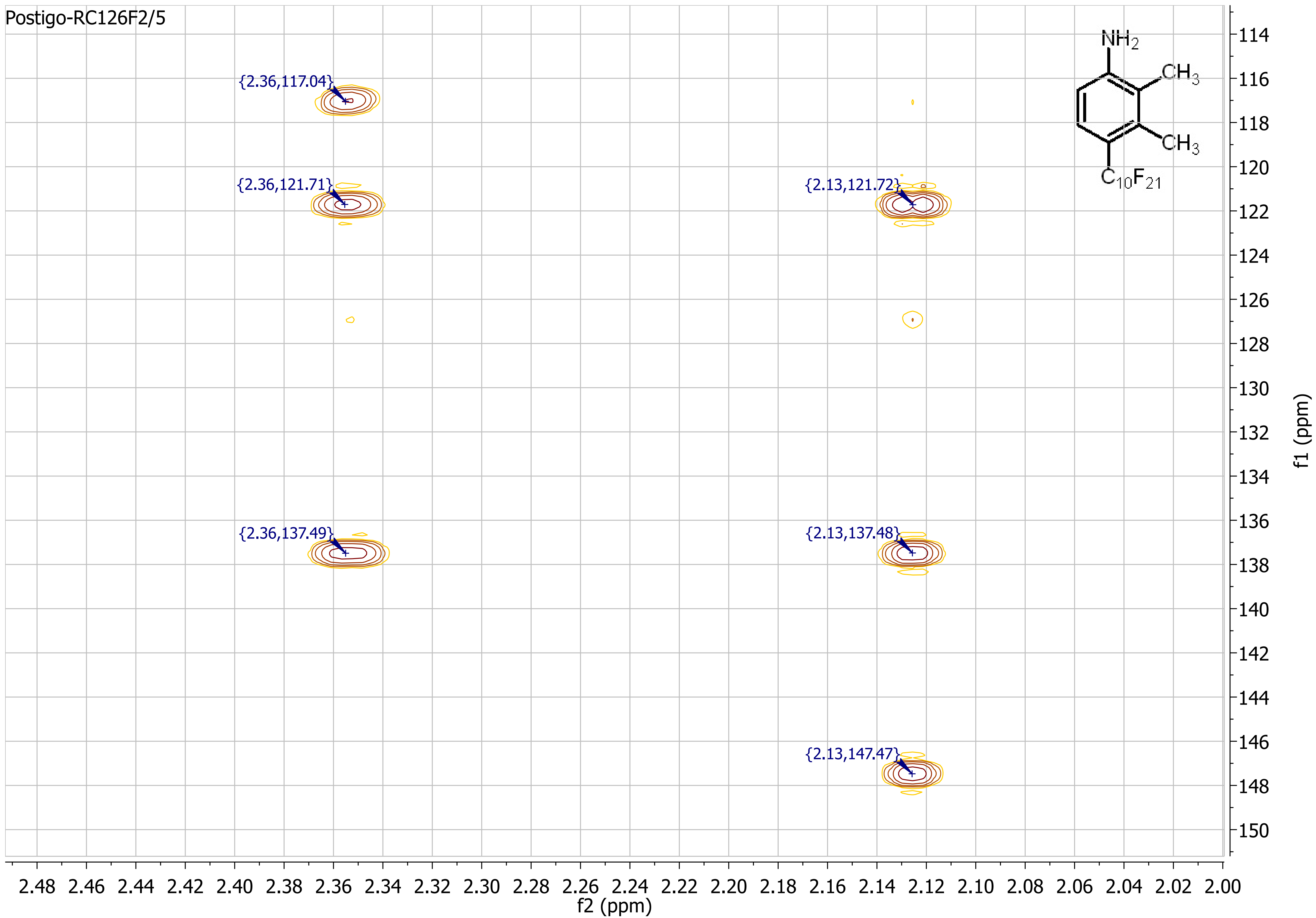


Postigo-RC126F2/4
{6.63,112.15}
{7.23,126.94}
NH2
CH3
CH3
C10F21
f2 (ppm)
f1 (ppm)

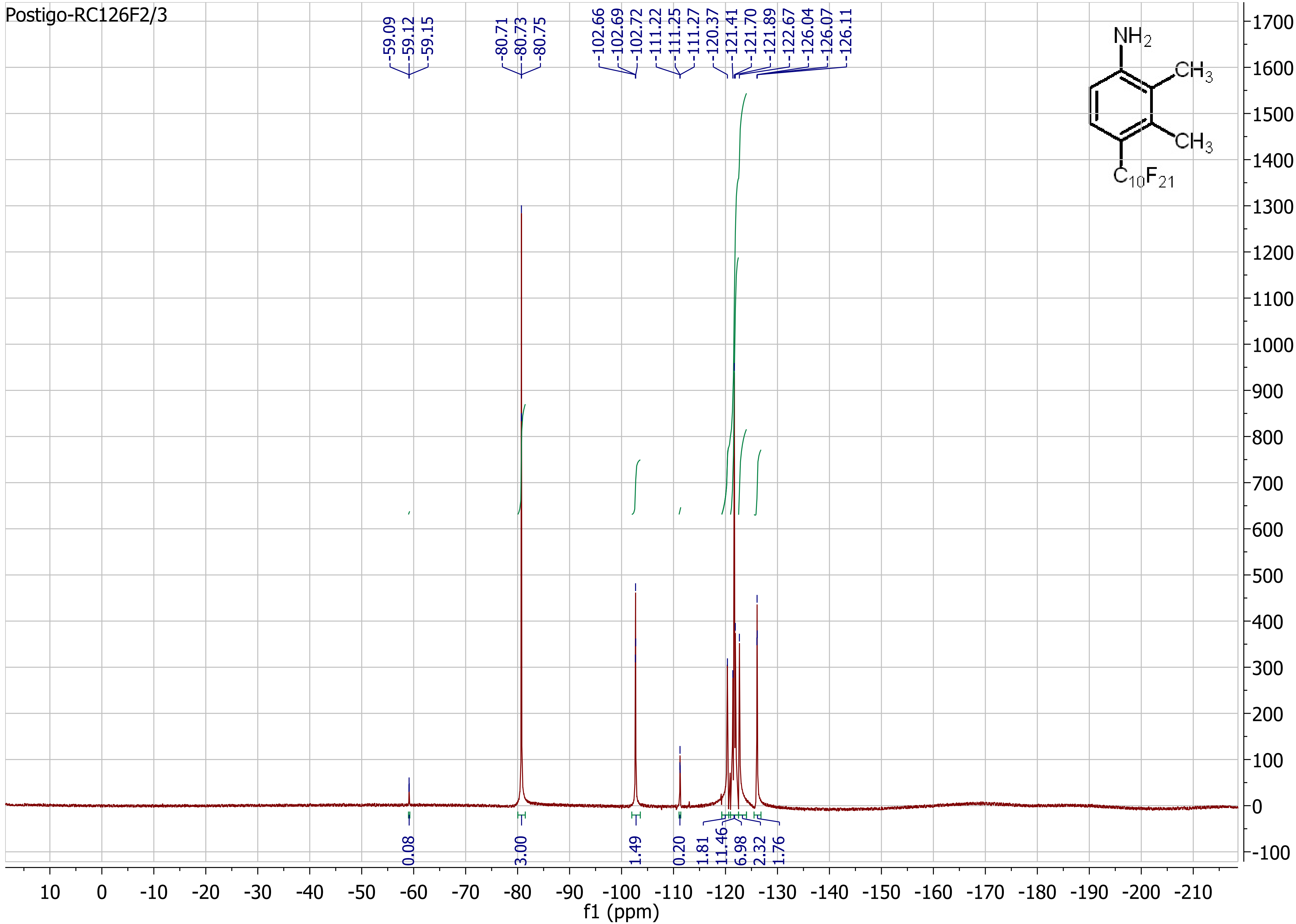


Postigo-RC126F2/5
NH2
CH3
CH3
C10F21
{6.63,117.00}
{6.63,121.72}
{7.23,137.50}
{7.23,147.47}
{2.36,117.04}
{2.13,121.72}
{2.36,121.71}
{2.36,137.49}
{2.13,137.48}
{2.13,147.47}
f2 (ppm)
f1 (ppm)

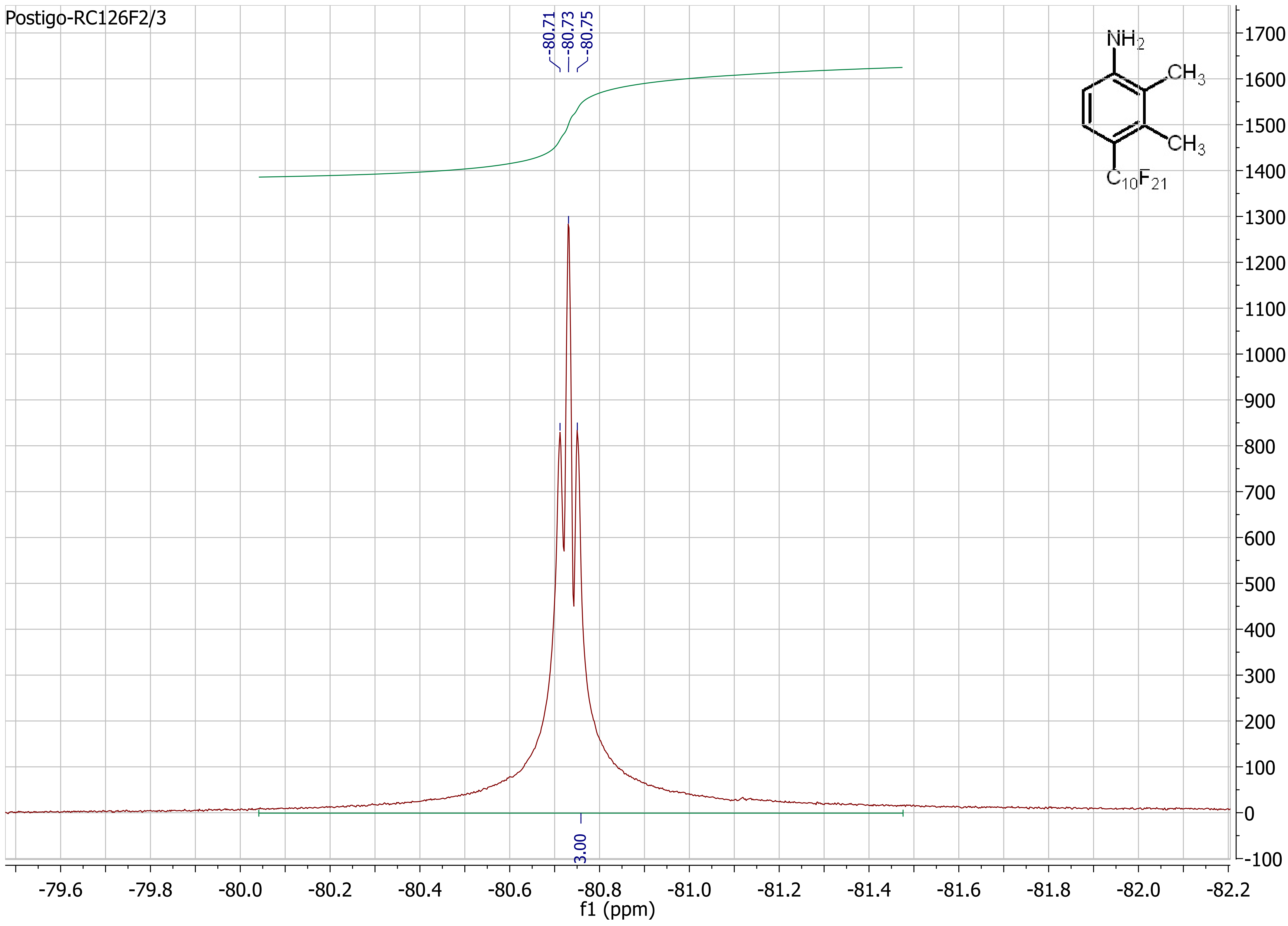

Postigo-RC126F2/5
NH2
CH3
CH3
C10F21
{6.63,117.00}
{6.63,121.72}
{7.23,137.50}
{7.23,147.47}
f2 (ppm)
f1 (ppm)



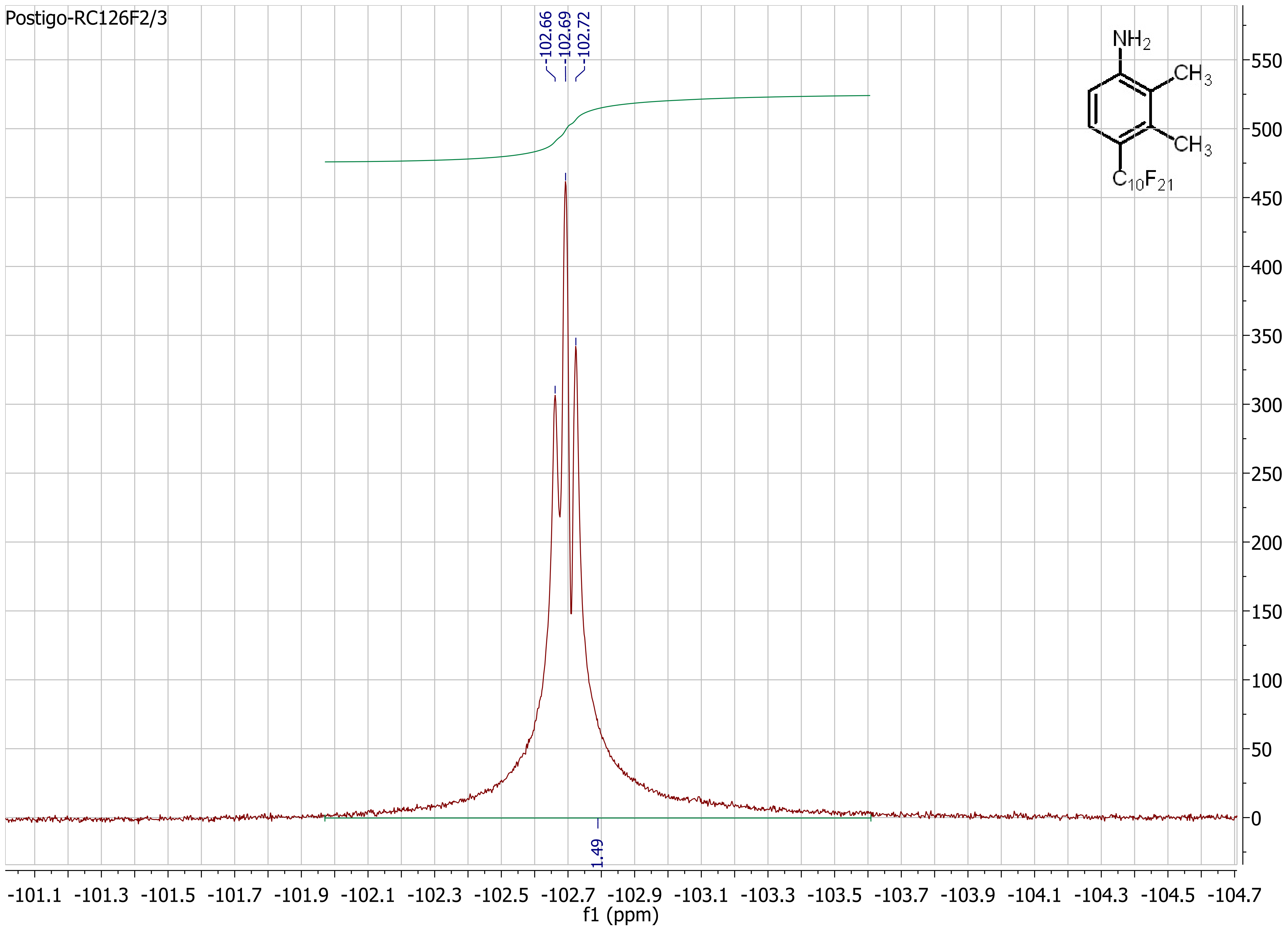
Postigo-RC126F2/5
{2.36,117.04}
{2.36,121.71}
{2.13,121.72}
{2.36,137.49}
{2.13,137.48}
{2.13,147.47}
NH2
CH3
CH3
C10F21
f2 (ppm)
f1 (ppm)



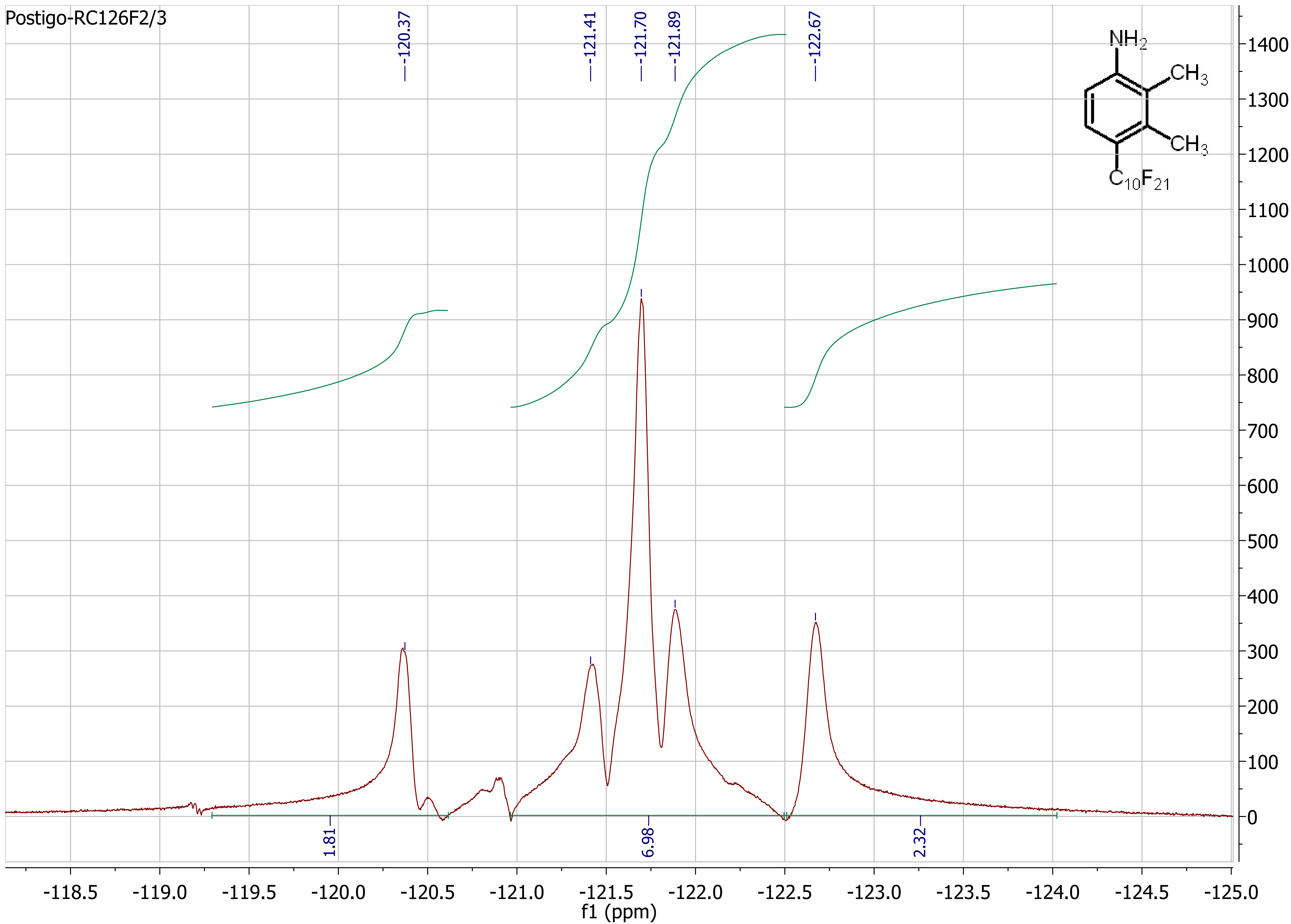
Postigo-RC126F2/3
-59.09
-59.12
-59.15
-80.71
-80.73
-80.75
-102.66
-102.69
-102.72
-111.22
-111.25
-111.27
-120.37
-121.41
-121.70
-121.89
-122.67
-126.04
-126.07
-126.11
NH2
CH3
CH3
C10F21
0.08
3.00
1.49
0.20
1.81
11.46
6.98
2.32
1.76
f1 (ppm)



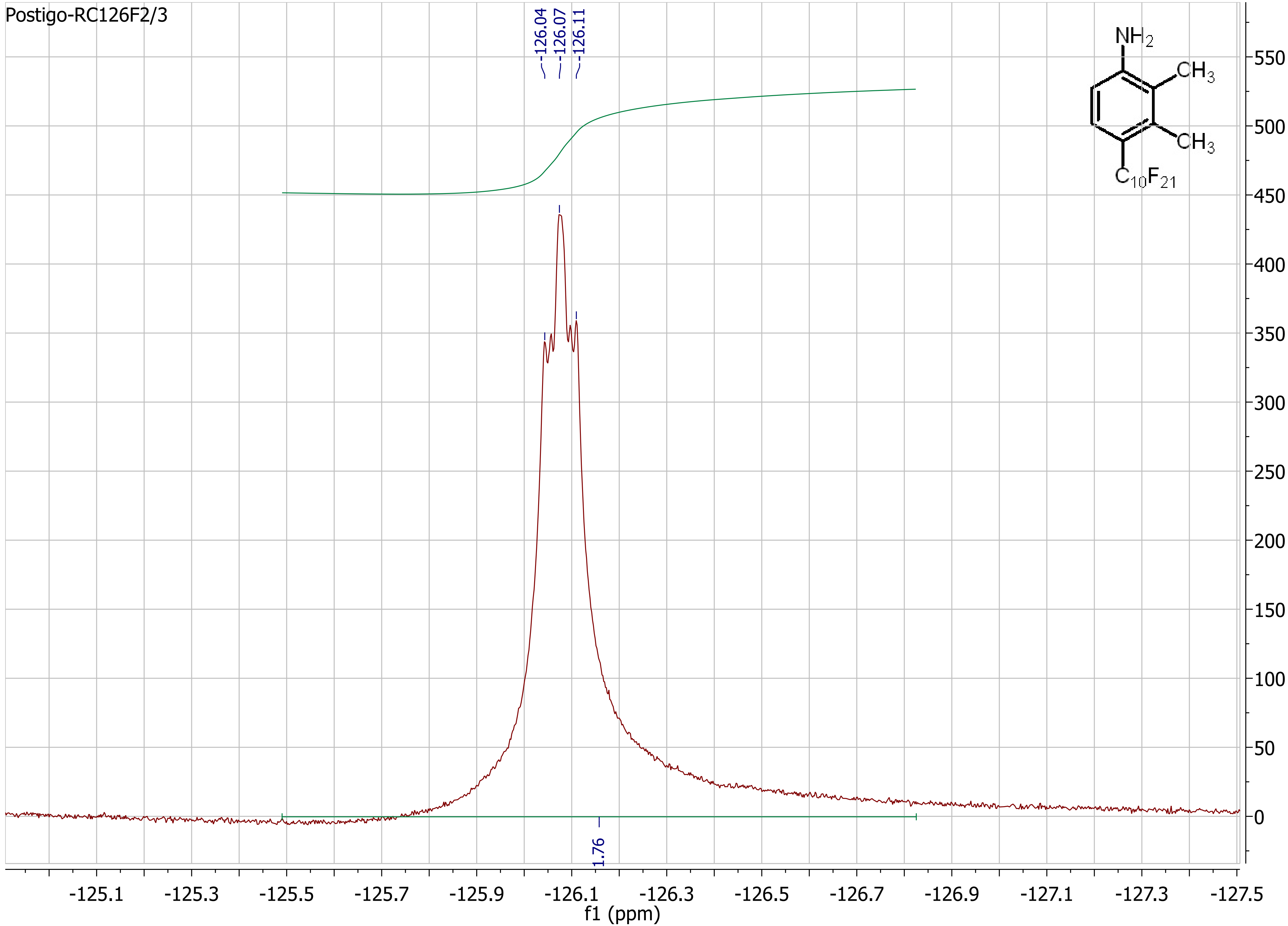
Postigo-RC126F2/3
-80.71
-80.73
-80.75
NH_2
CH_3
CH_3
$C_{10}F_{21}$
3.00
f1 (ppm)



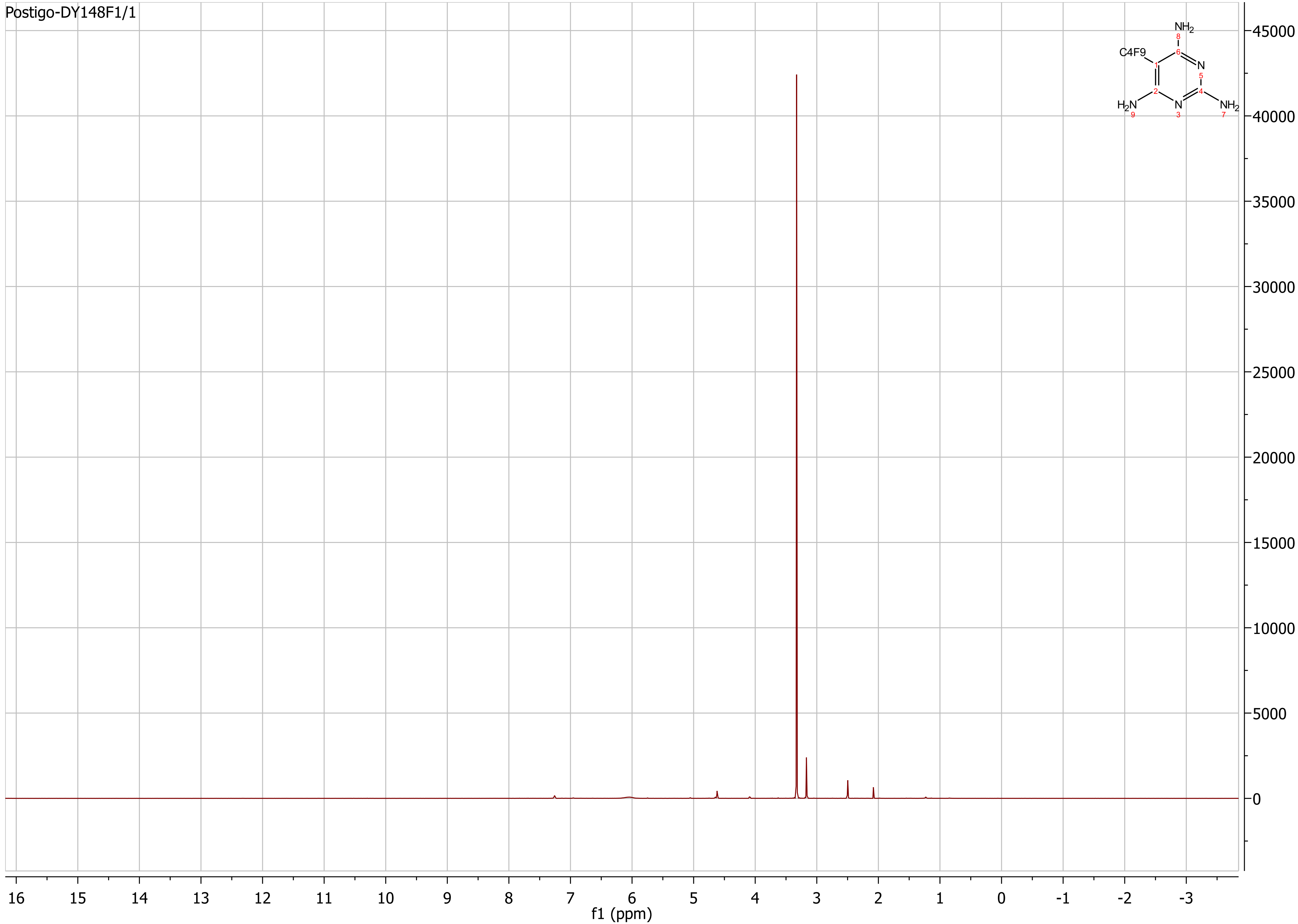
Postigo-RC126F2/3
-102.66
-102.69
-102.72
NH2
CH3
CH3
C10F21
1.49
550
500
450
400
350
300
250
200
150
100
50
0
-101.1 -101.3 -101.5 -101.7 -101.9 -102.1 -102.3 -102.5 -102.7 -102.9 -103.1 -103.3 -103.5 -103.7 -103.9 -104.1 -104.3 -104.5 -104.7
f1 (ppm)



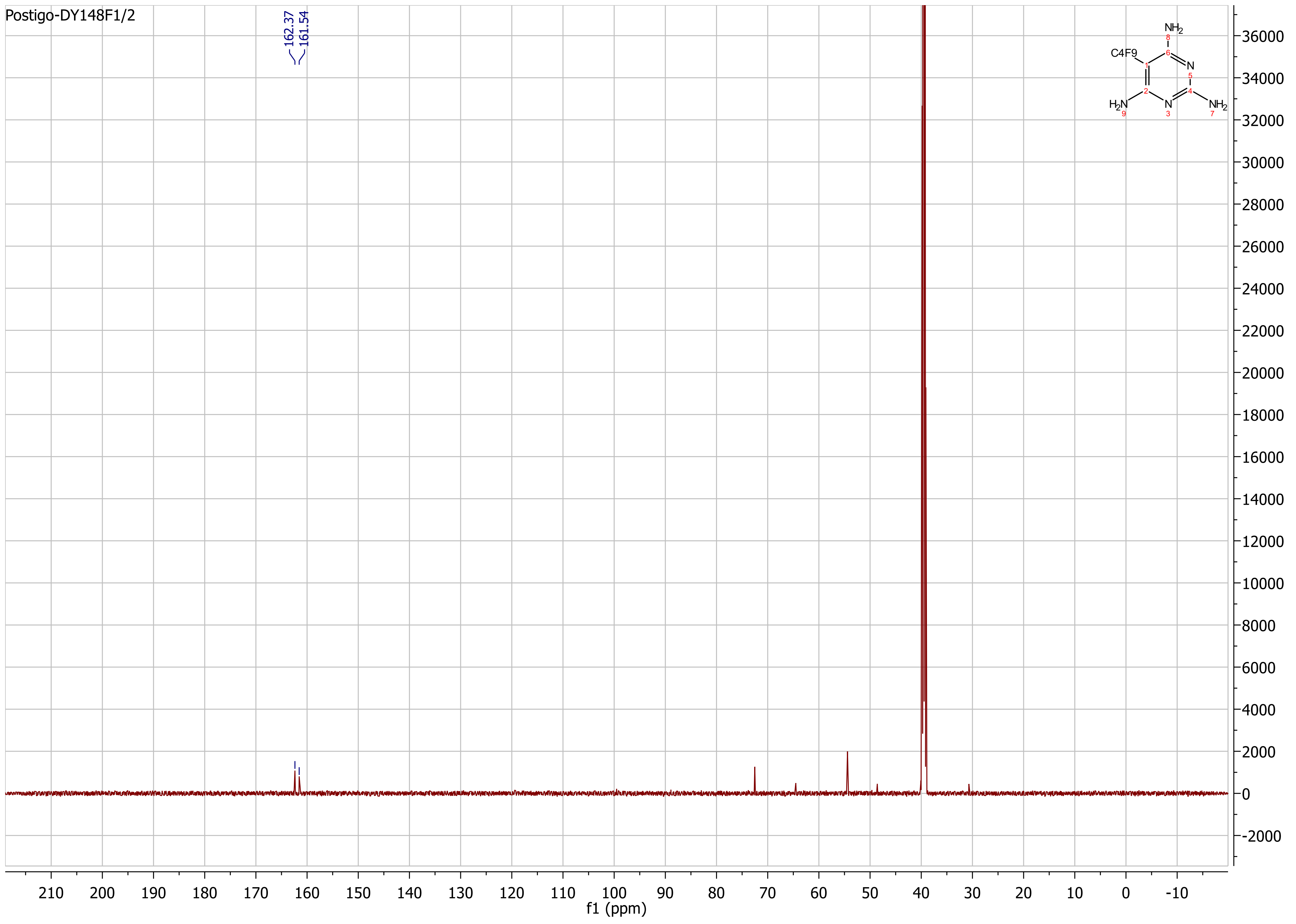
Postigo-RC126F2/3
-120.37
-121.41
-121.70
-121.89
-122.67
NH2
CH3
CH3
C10F21
1.81
6.98
2.32
-118.5 -119.0 -119.5 -120.0 -120.5 -121.0 -121.5 -122.0 -122.5 -123.0 -123.5 -124.0 -124.5 -125.0
f1 (ppm)
1400 1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0



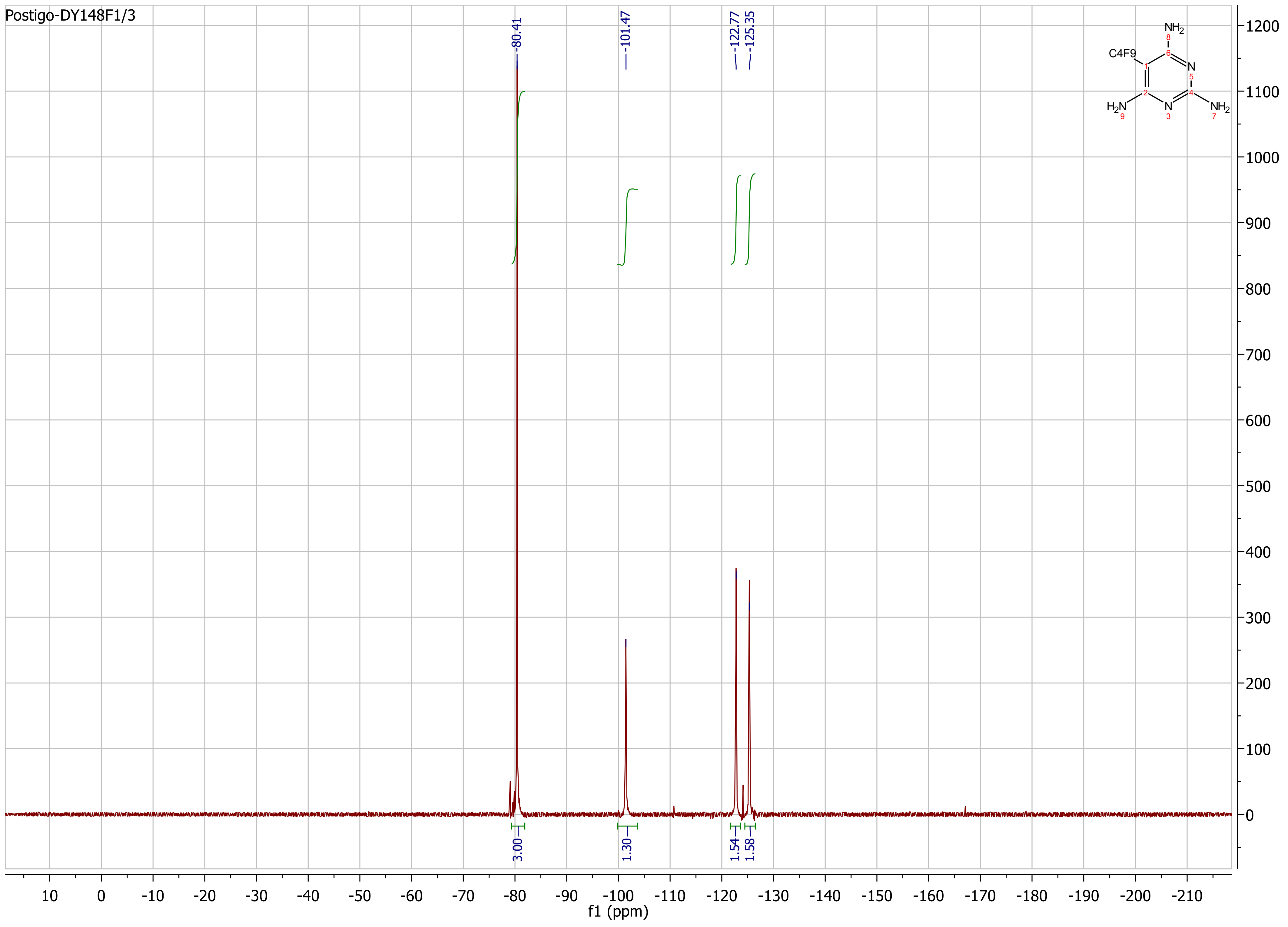
Postigo-RC126F2/3
-126.04
-126.07
-126.11
NH2
CH3
CH3
C10F21
1.76
-125.1
-125.3
-125.5
-125.7
-125.9
-126.1
-126.3
-126.5
-126.7
-126.9
-127.1
-127.3
-127.5
f1 (ppm)
550
500
450
400
350
300
250
200
150
100
50
0



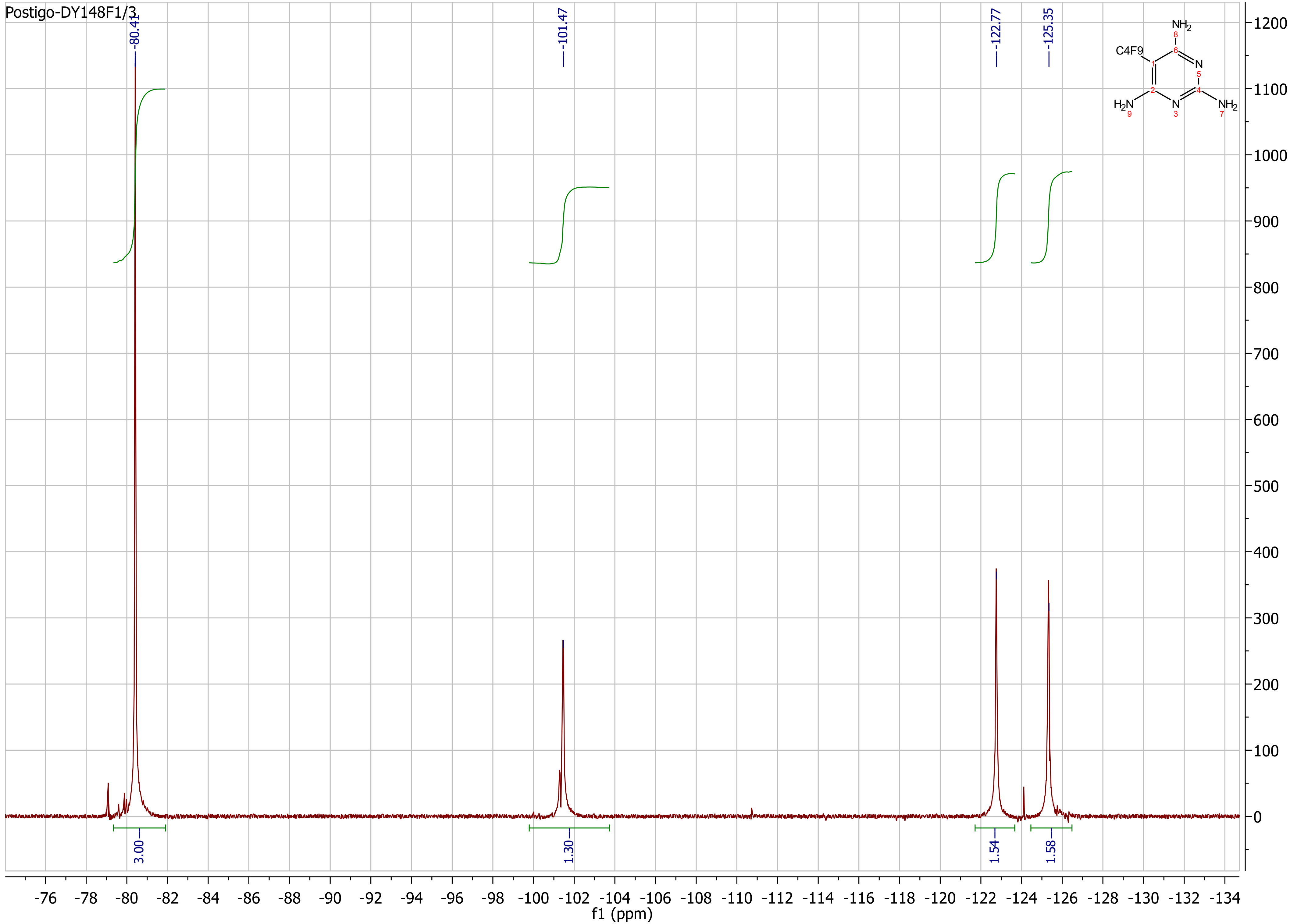
Postigo-DY148F1/1
NH2
C4F9
N
H2N
N
NH2
f1 (ppm)



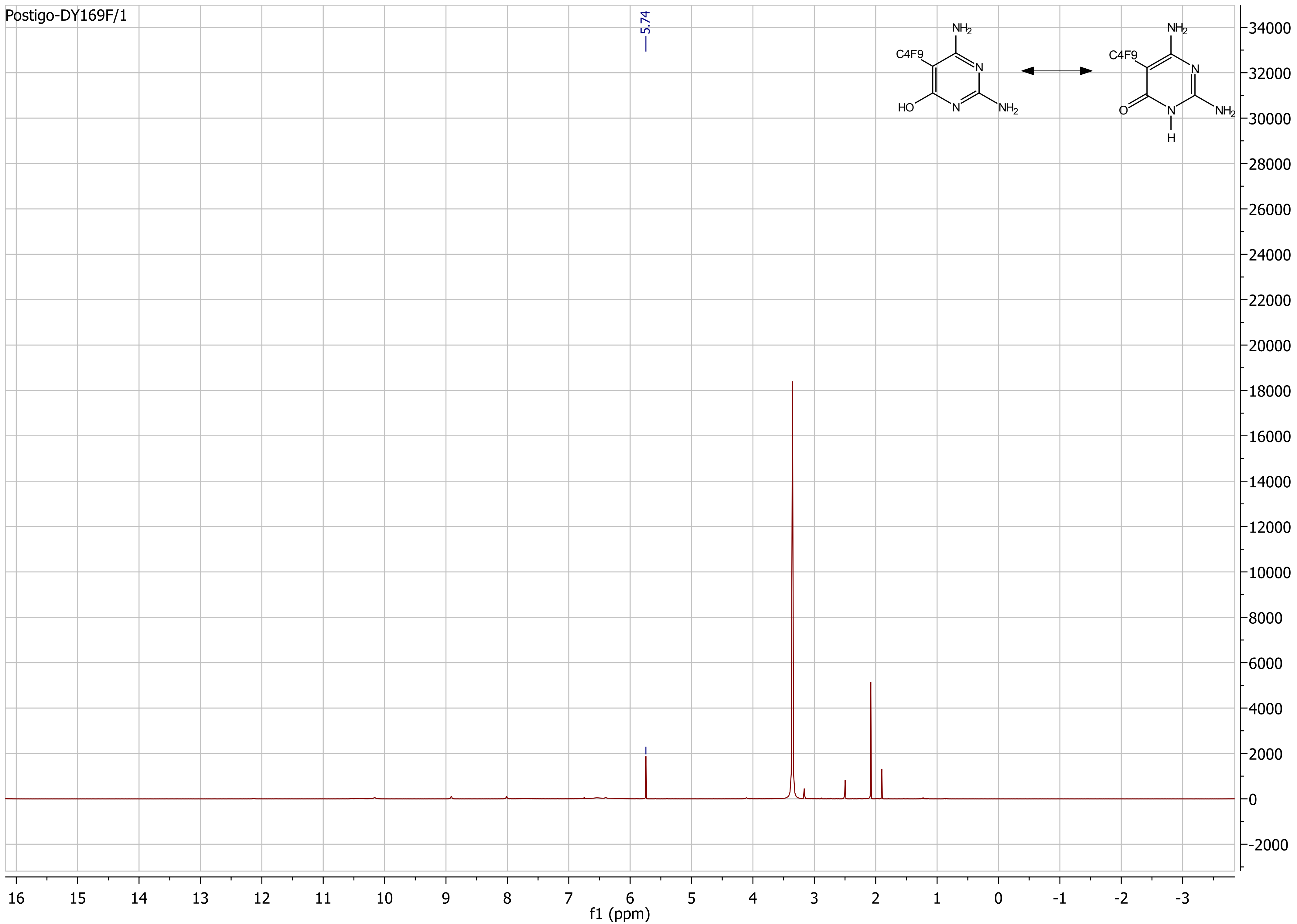
Postigo-DY148F1/2
162.37
161.54
C4F9
NH_2
H_2N
NH_2
N
N
f1 (ppm)

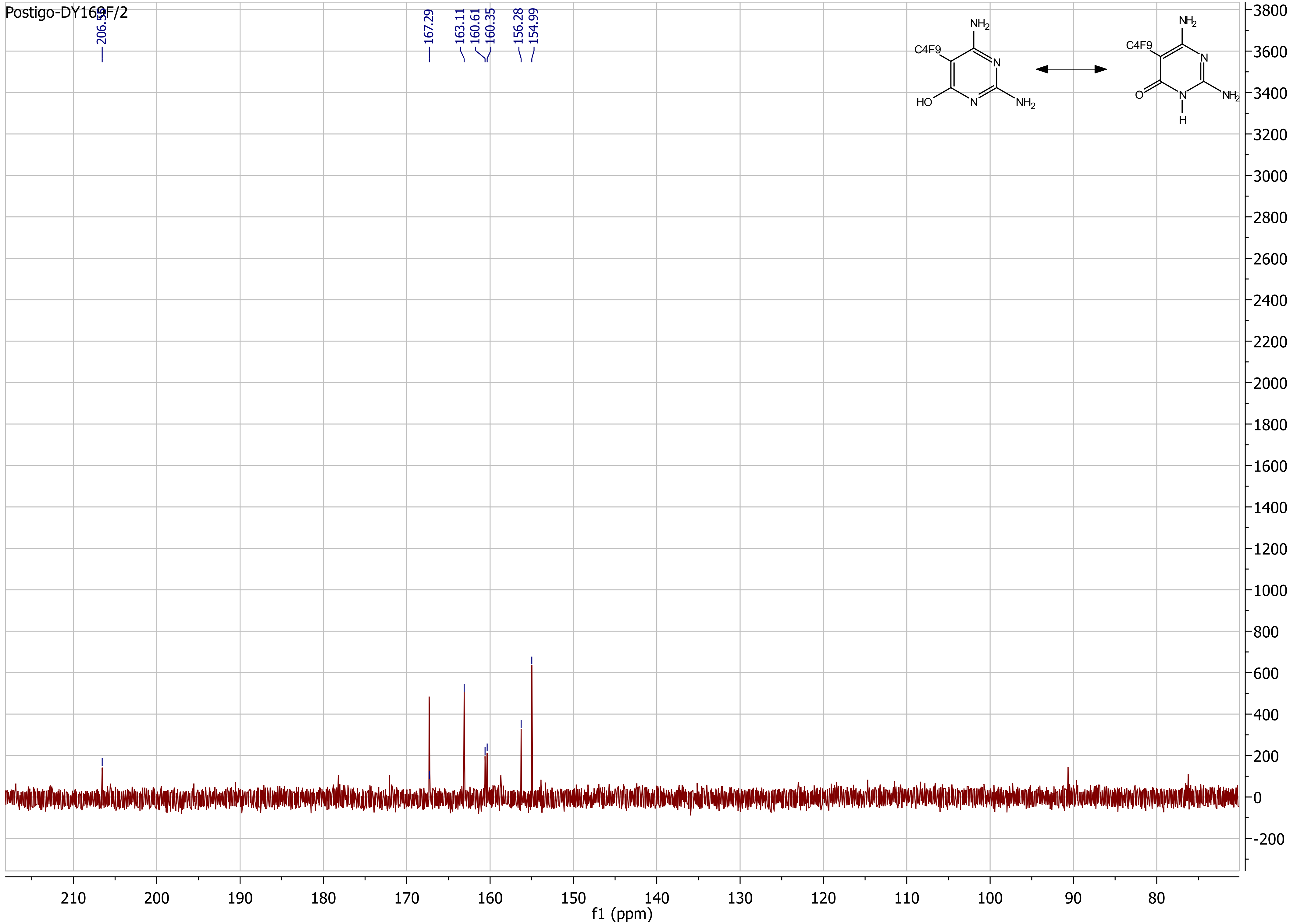


Postigo-DY148F1/3
-80.41
-101.47
-122.77
-125.35
C4F9
NH_2
N
H_2N
N
NH_2
3.00
1.30
1.54
1.58
f1 (ppm)

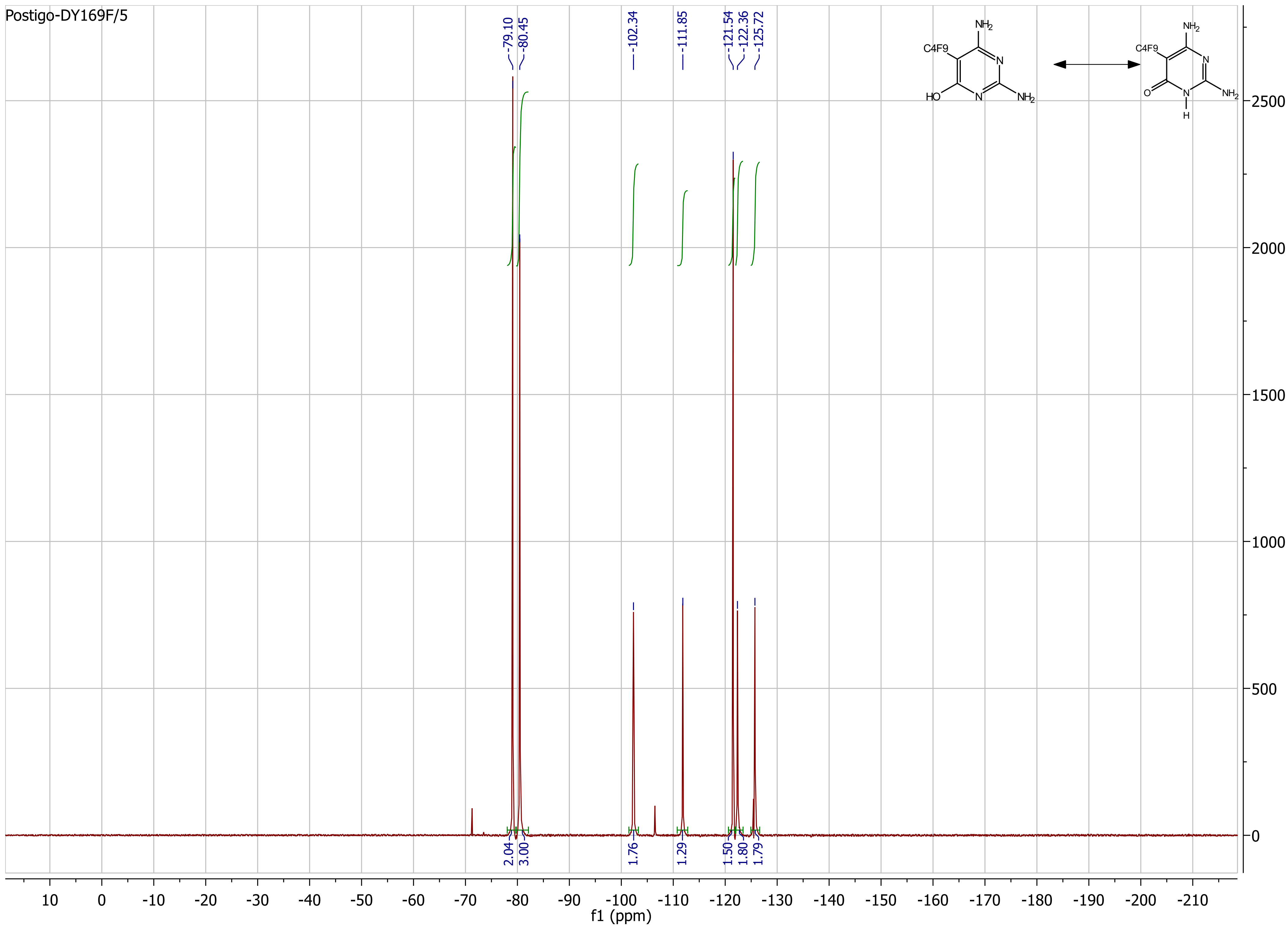


Postigo-DY148F1/3
-80.41
-101.47
-122.77
-125.35
C4F9
NH2
H2N
NH2
N
N
3.00
1.30
1.54
1.58
f1 (ppm)

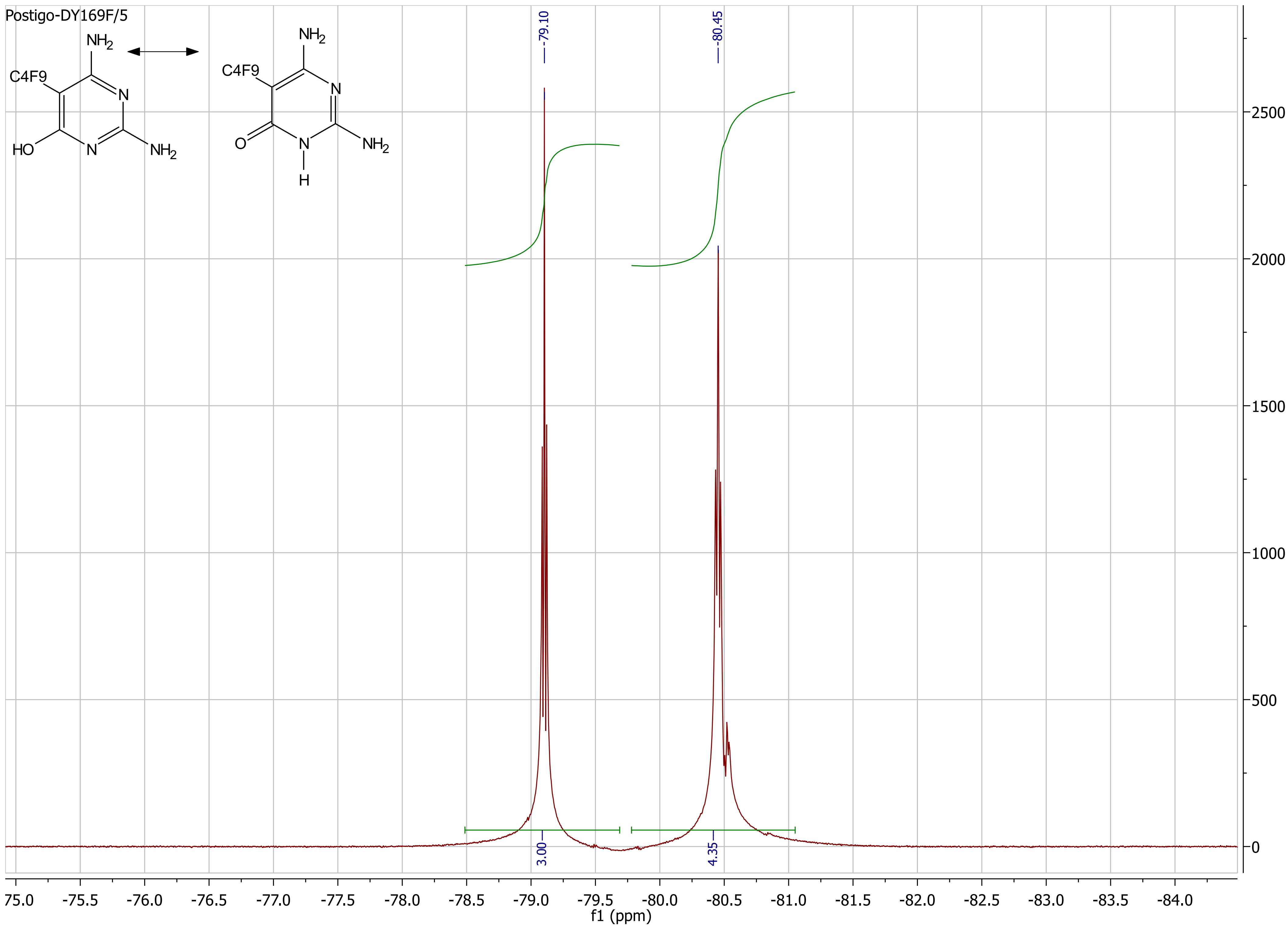

Postigo-DY169F/1
5.74
NH2
C4F9
N
HO
N
NH2
NH2
C4F9
N
O
N
H
NH2
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
f1 (ppm)

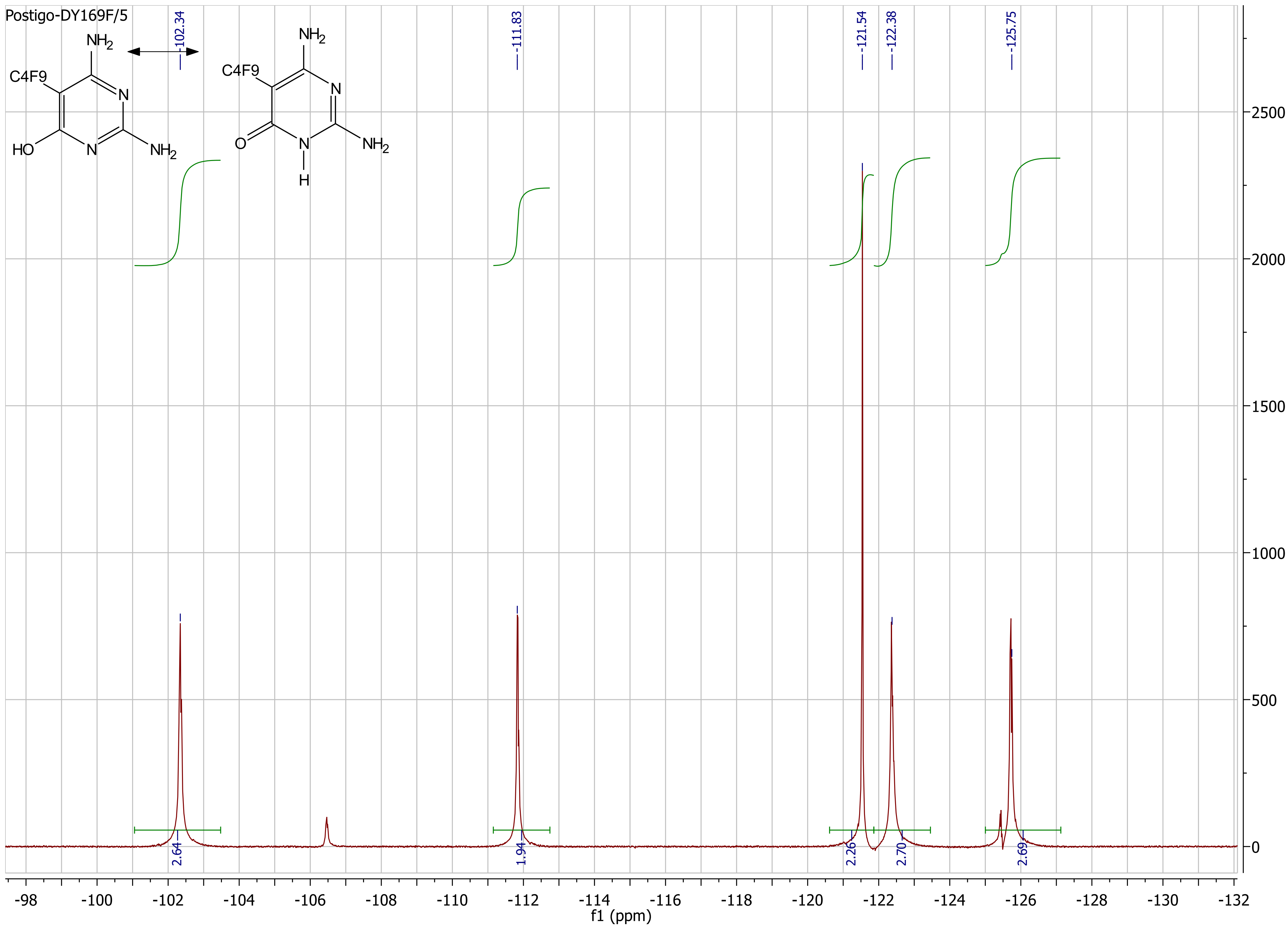


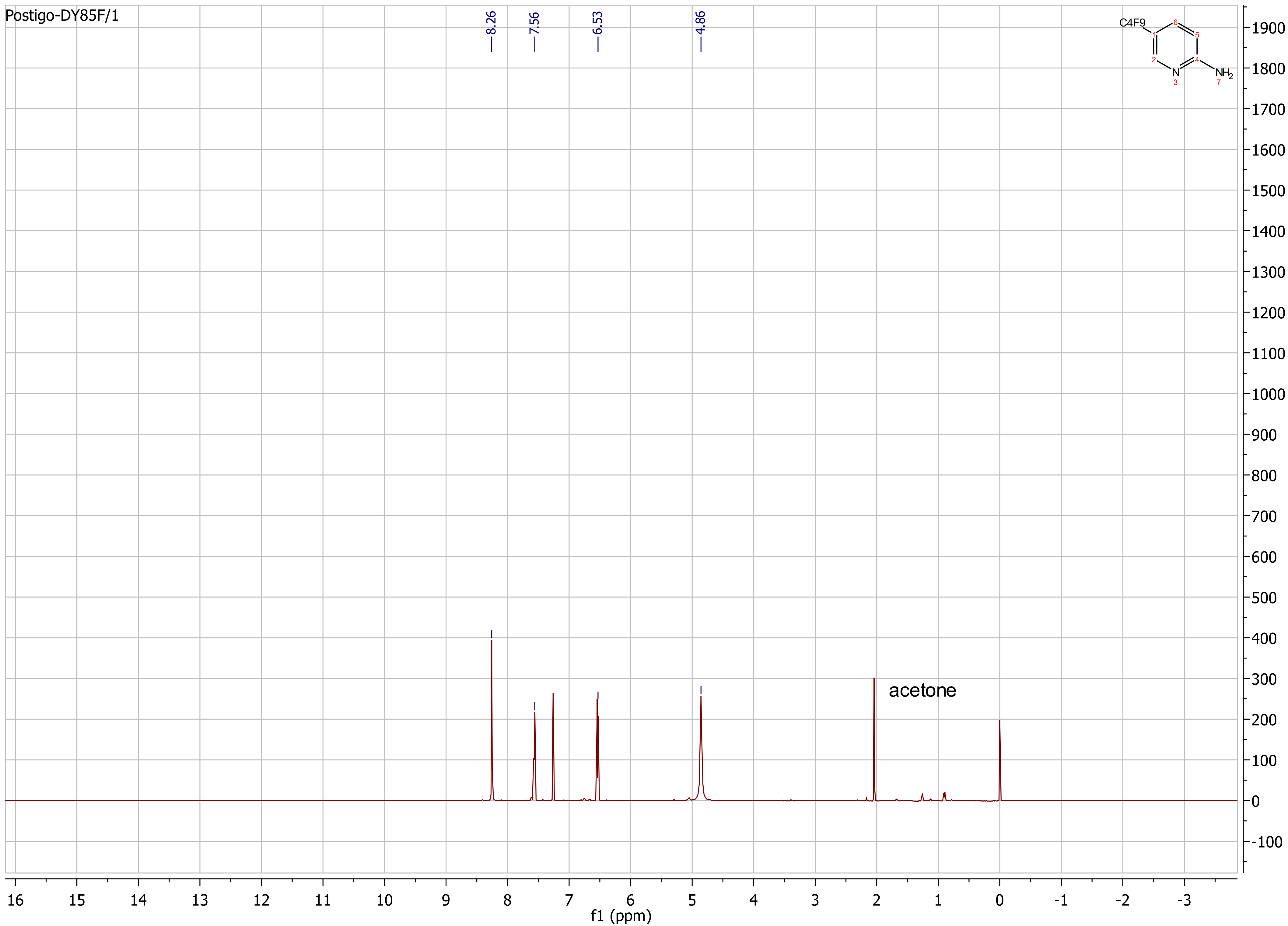
Postigo-DY169F/2
206.59
167.29
163.11
160.61
160.35
156.28
154.99
NH2
C4F9
N
HO
N
NH2
NH2
C4F9
N
O
N
H
NH2
f1 (ppm)

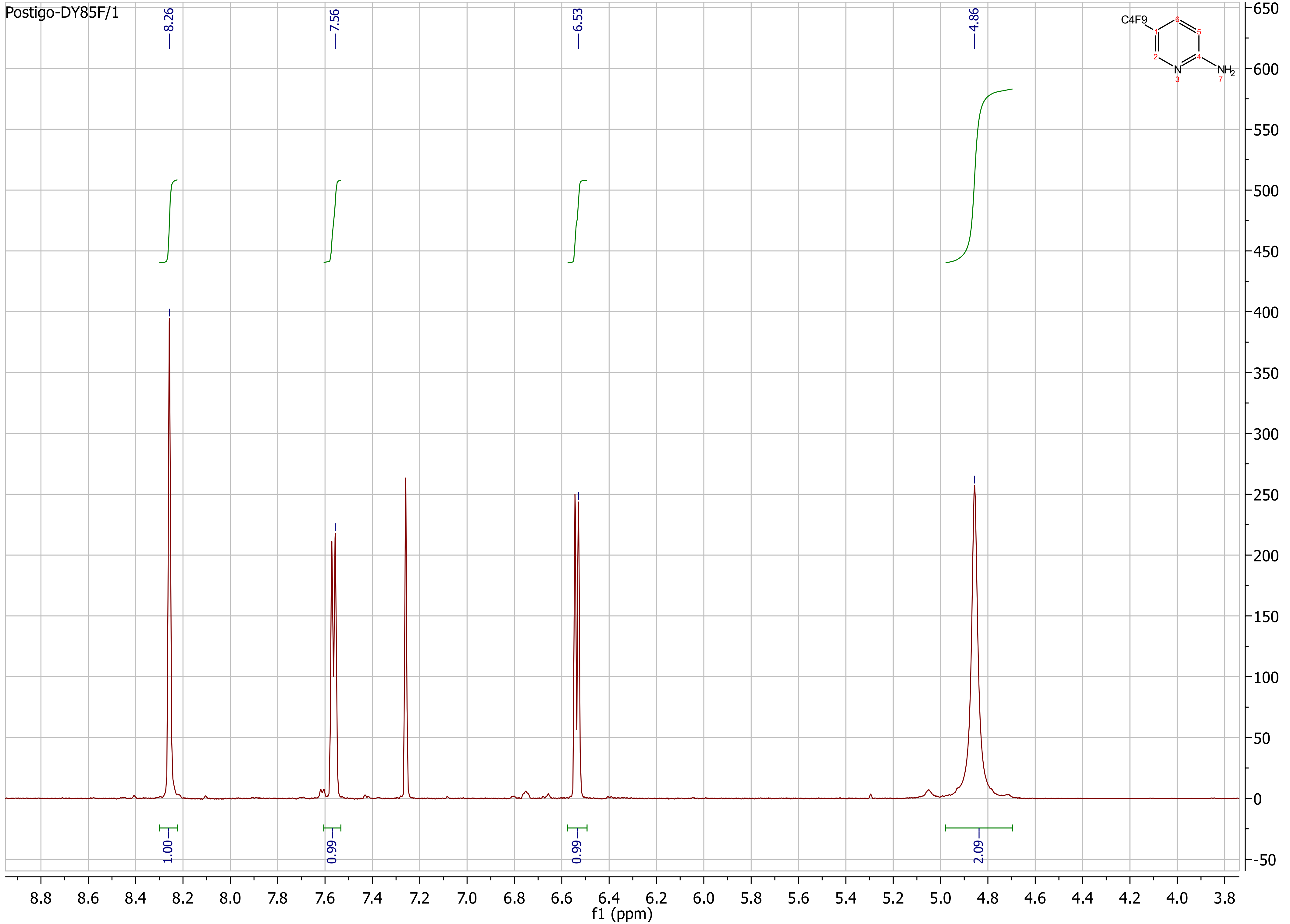


Postigo-DY169F/5
-79.10
-80.45
-102.34
-111.85
-121.54
-122.36
-125.72
C4F9
NH2
N
HO
N
NH2
C4F9
NH2
N
O
N
H
NH2
2.04
3.00
1.76
1.29
1.50
1.80
1.79
2500
2000
1500
1000
500
0
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
-210
f1 (ppm)

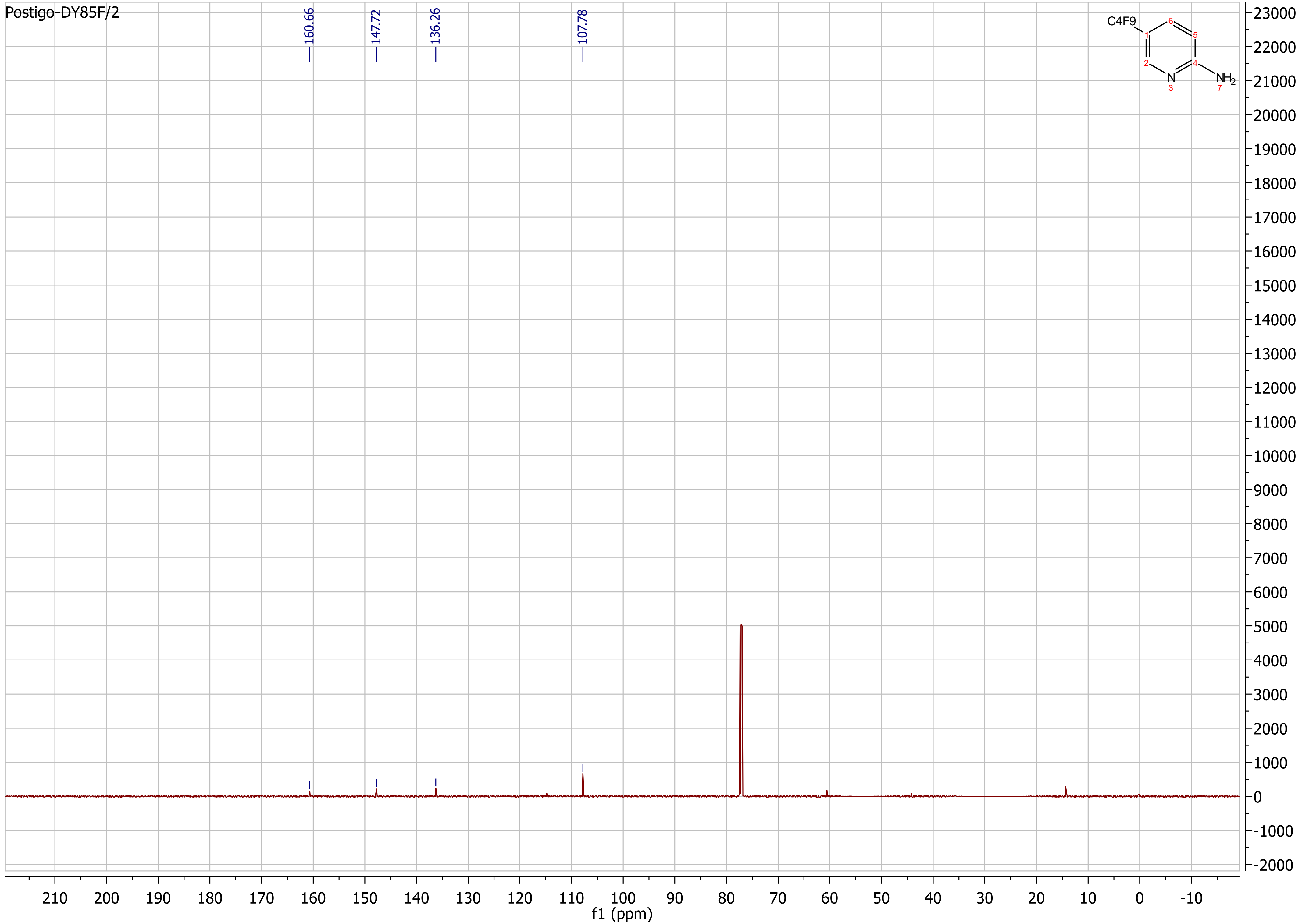

Postigo-DY169F/5
NH2
C4F9
N
HO
N
NH2
NH2
C4F9
N
O
N
NH2
H
-79.10
-80.45
3.00
4.35
2500
2000
1500
1000
500
0
75.0
-75.5
-76.0
-76.5
-77.0
-77.5
-78.0
-78.5
-79.0
-79.5
-80.0
-80.5
-81.0
-81.5
-82.0
-82.5
-83.0
-83.5
-84.0
f1 (ppm)


Postigo-DY169F/5
NH2
C4F9
N
HO
N
NH2
NH2
C4F9
N
O
N
NH2
H
-102.34
-111.83
-121.54
-122.38
-125.75
2.64
1.94
2.26
2.70
2.69
2500
2000
1500
1000
500
0
-98
-100
-102
-104
-106
-108
-110
-112
-114
-116
-118
-120
-122
-124
-126
-128
-130
-132
f1 (ppm)

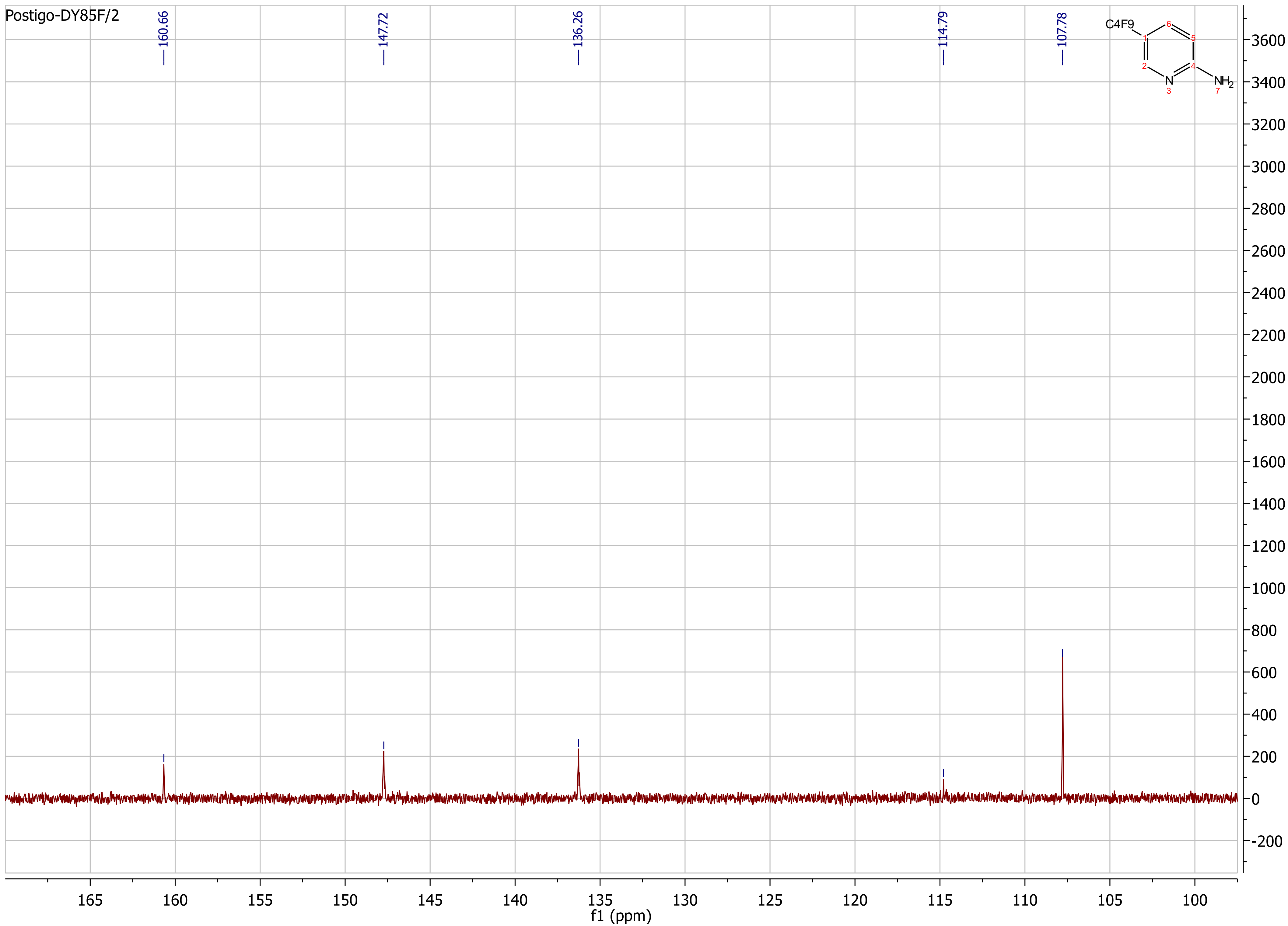

Postigo-DY85F/1
8.26
7.56
6.53
4.86
C4F9
NH2
acetone
f1 (ppm)



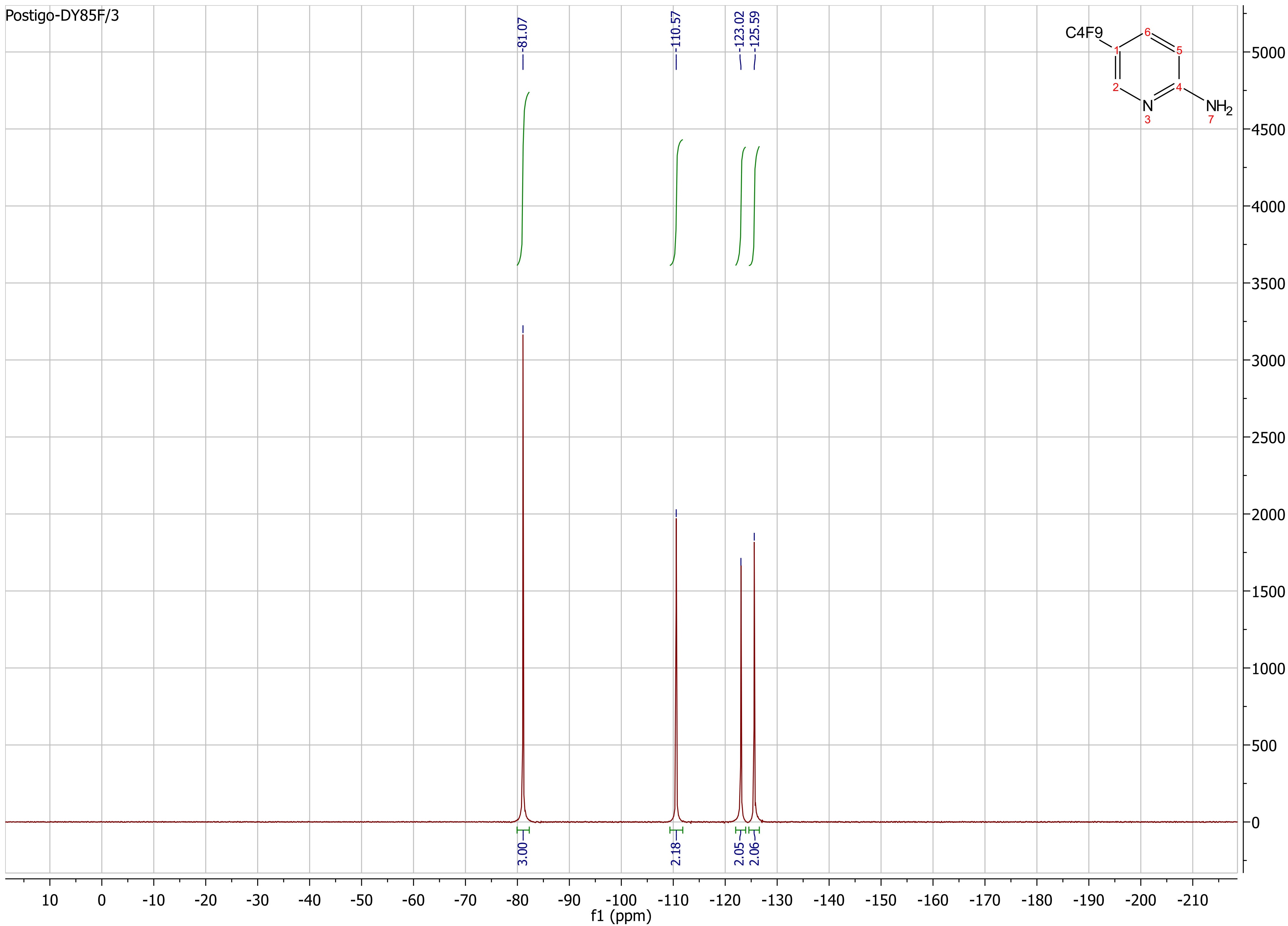
Postigo-DY85F/1
8.26
7.56
6.53
4.86
C4F9
NH2
1.00
0.99
0.99
2.09
f1 (ppm)

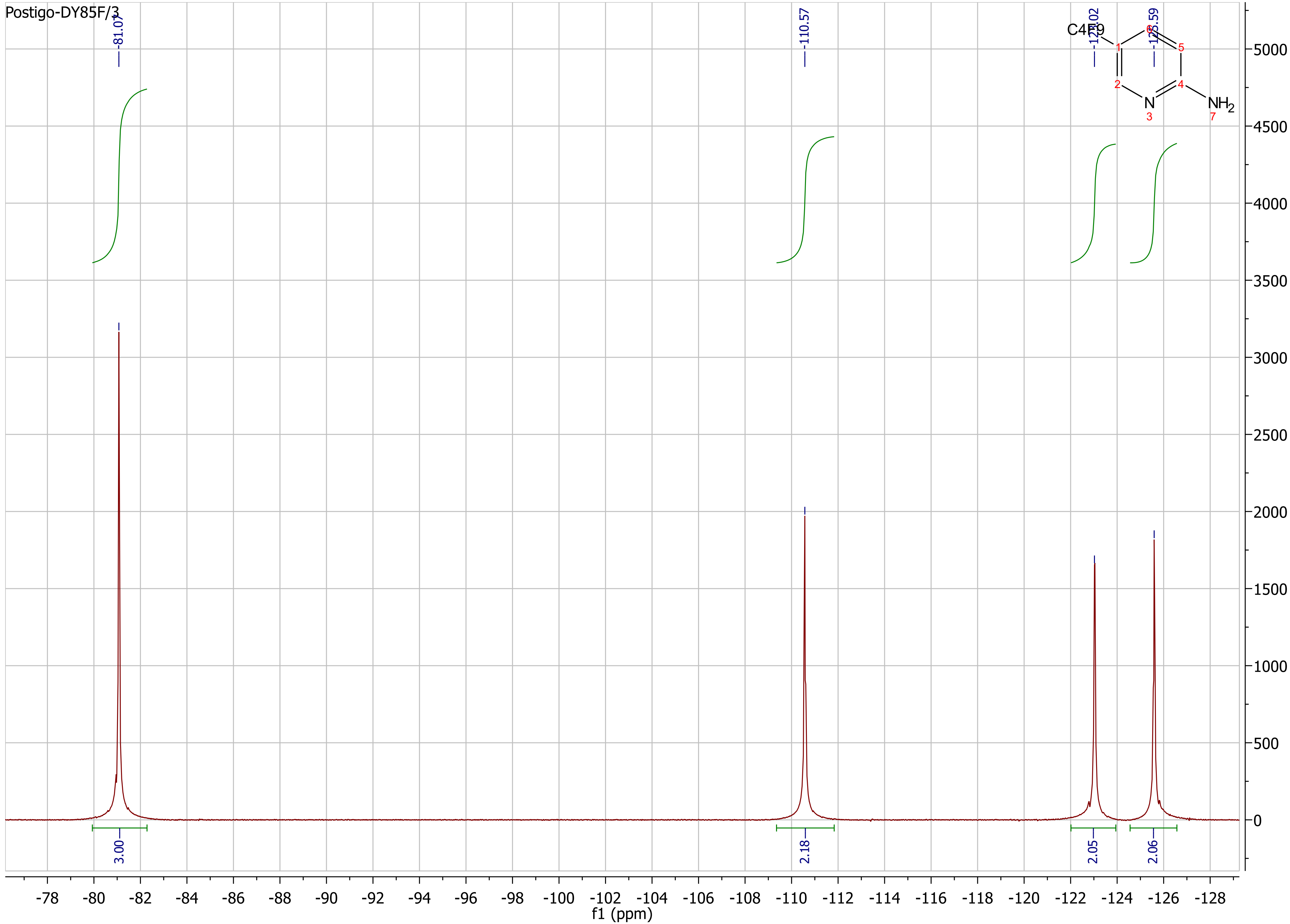


Postigo-DY85F/2
160.66
147.72
136.26
107.78
C4F9
NH2
f1 (ppm)

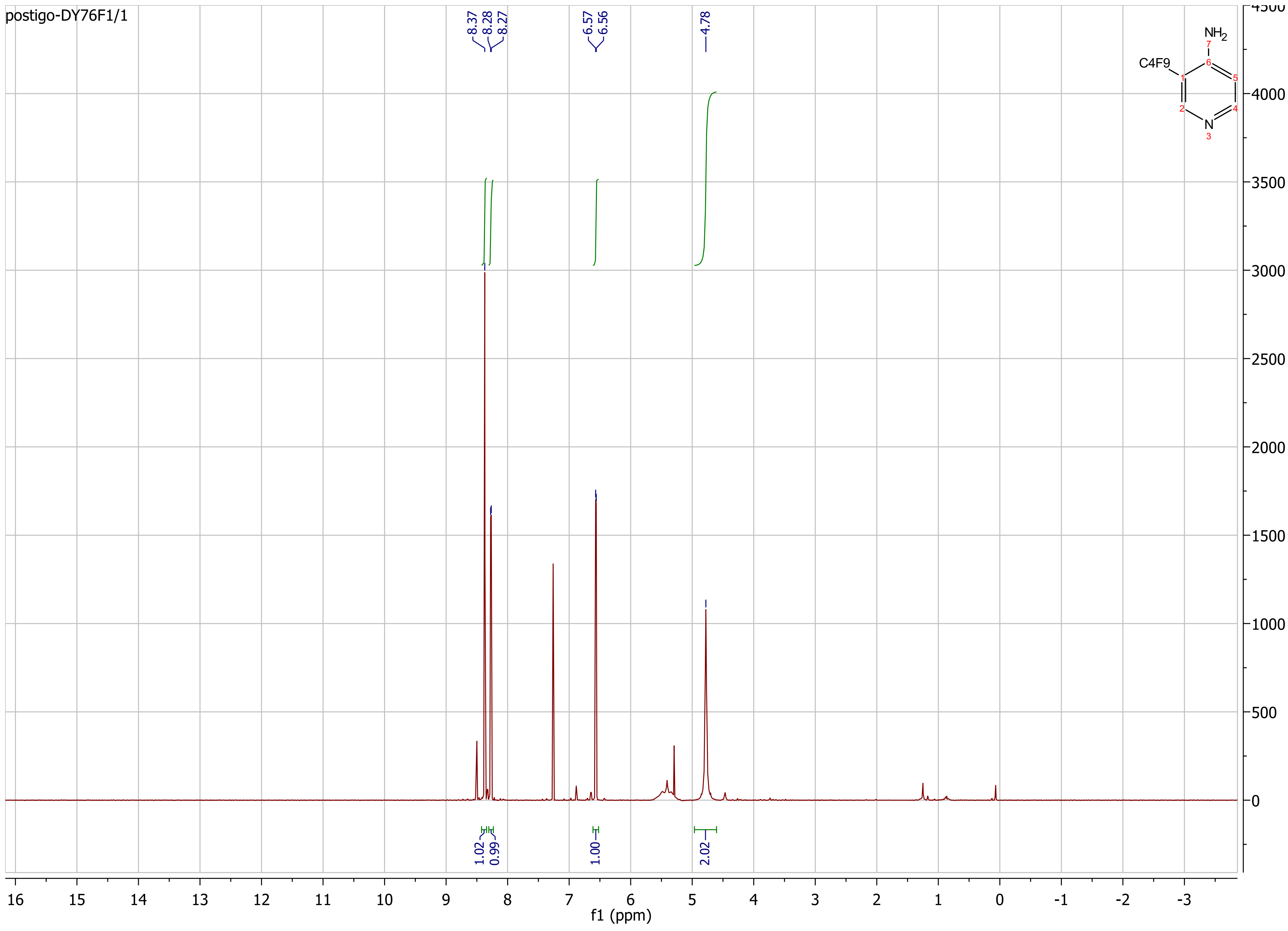


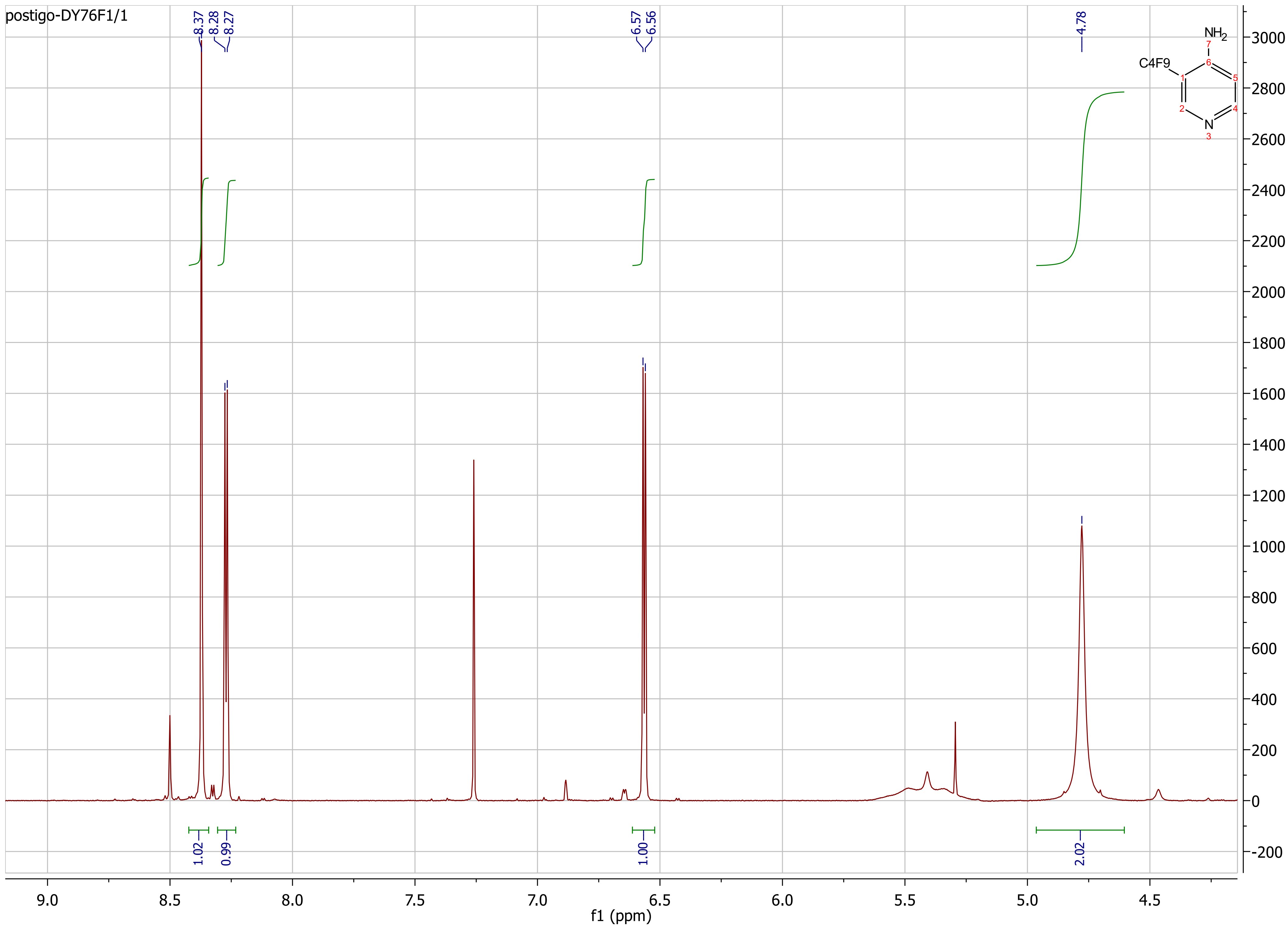
Postigo-DY85F/2
160.66
147.72
136.26
114.79
107.78
C4F9
NH2
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200
165
160
155
150
145
140
135
130
125
120
115
110
105
100
f1 (ppm)


Postigo-DY85F/3
-81.07
-110.57
-123.02
-125.59
C4F9
NH2
3.00
2.18
2.05
2.06
f1 (ppm)

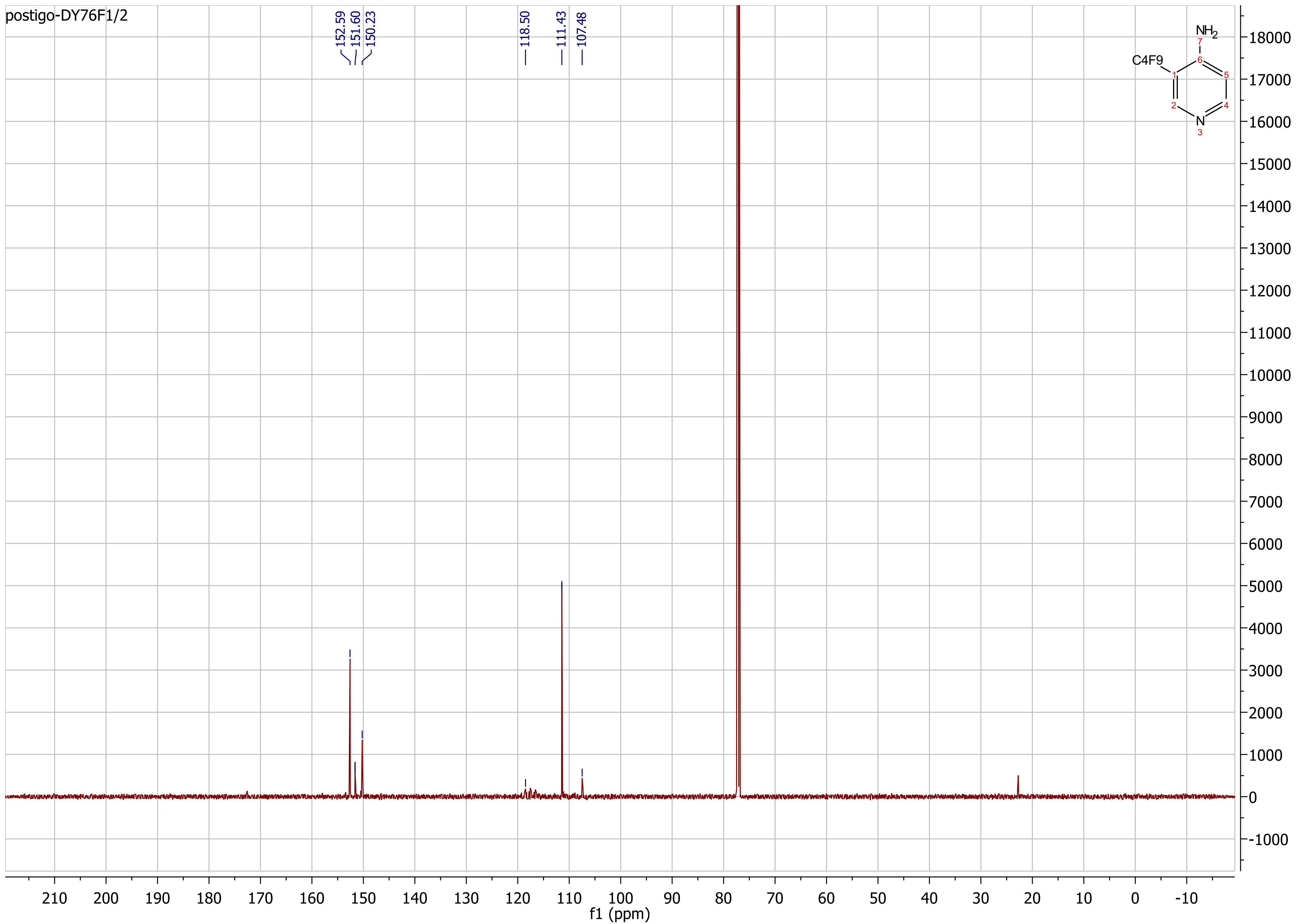


Postigo-DY85F/3
-81.07
-110.57
-123.02
-125.59
C4F9
NH2
N
3.00
2.18
2.05
2.06
f1 (ppm)

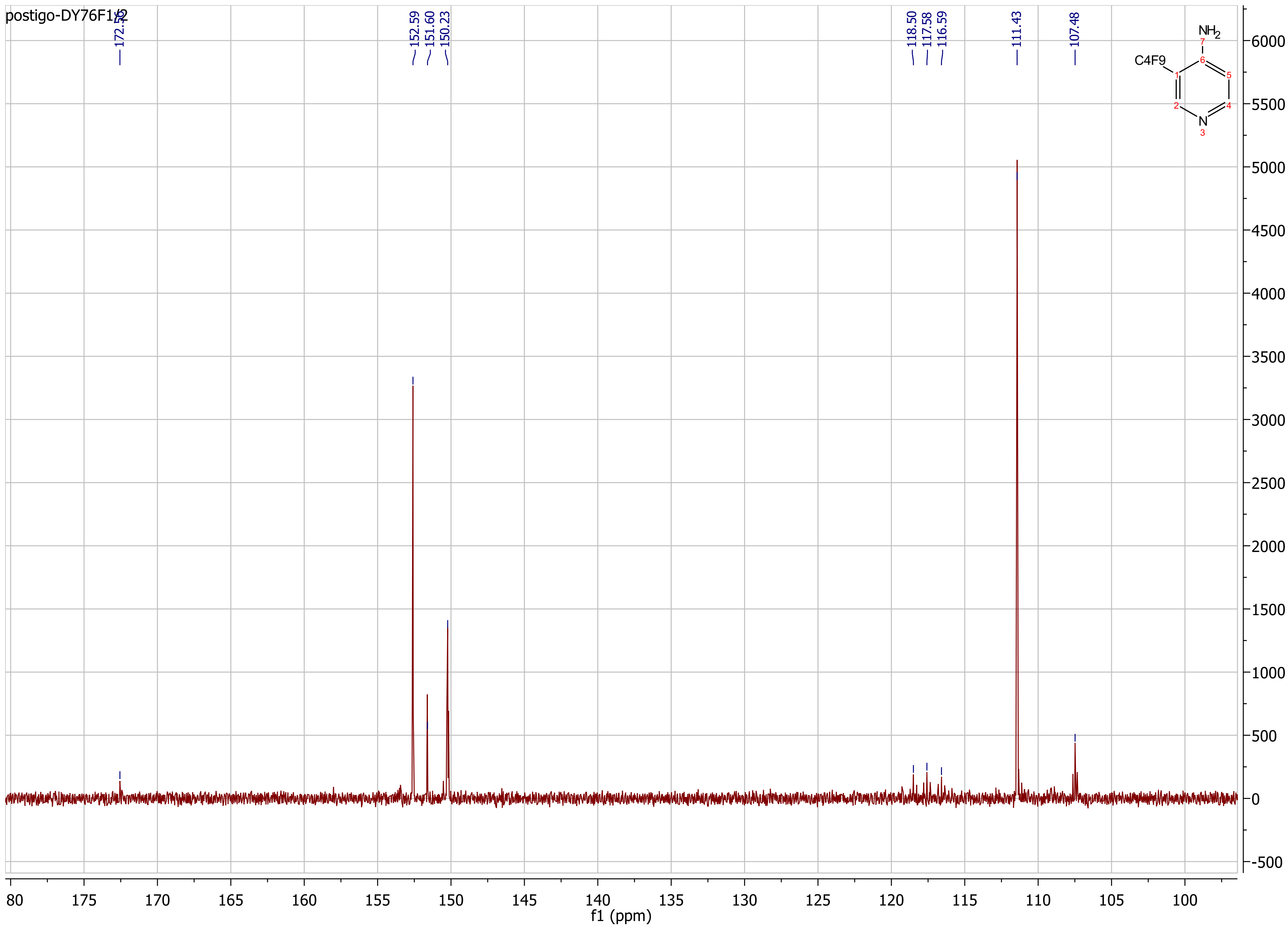

postigo-DY76F1/1
8.37
8.28
8.27
6.57
6.56
4.78
NH2
C4F9
N
1.02
0.99
1.00
2.02
f1 (ppm)



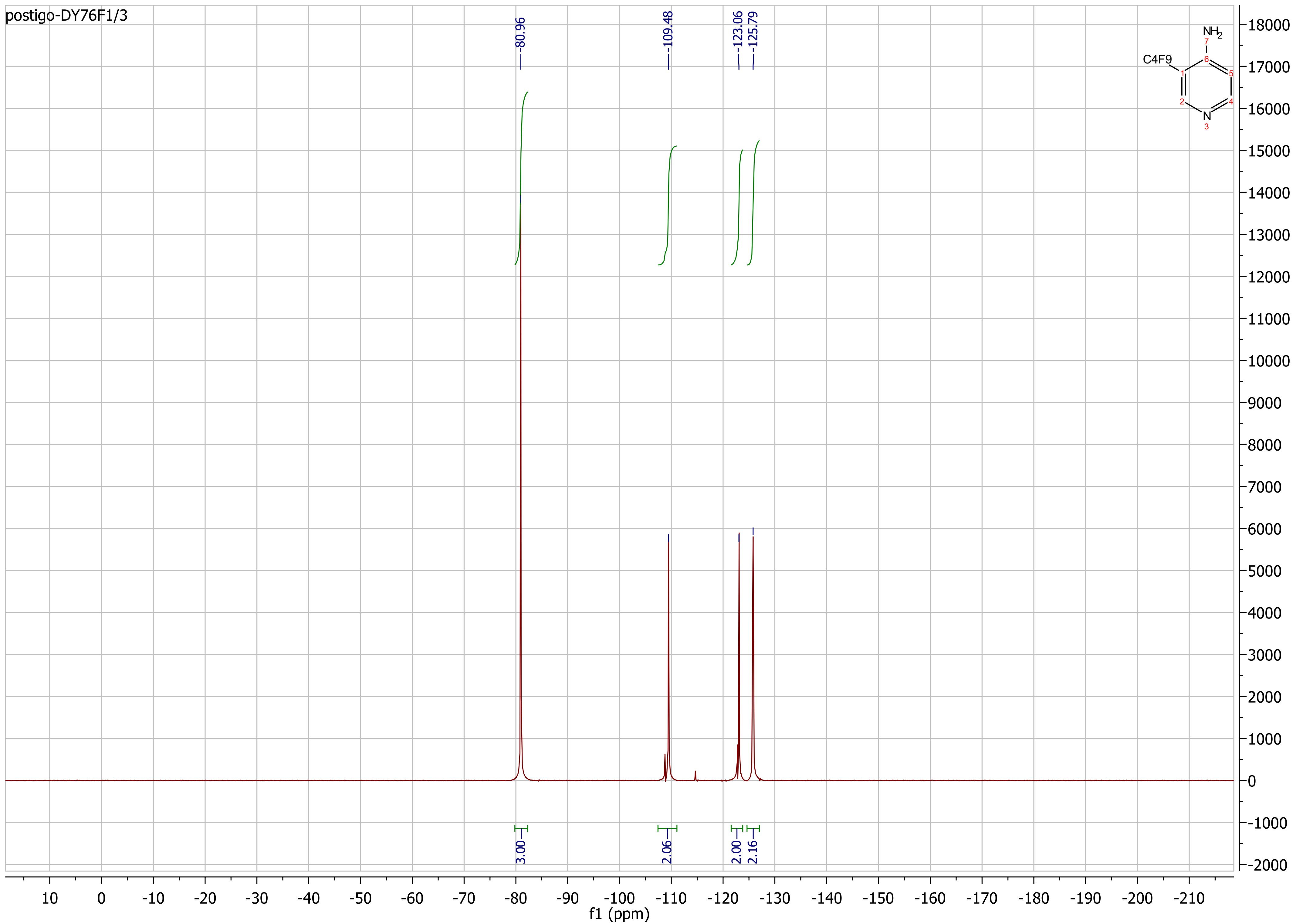
postigo-DY76F1/1
8.37
8.28
8.27
6.57
6.56
4.78
NH2
C4F9
N
1.02
0.99
1.00
2.02
f1 (ppm)



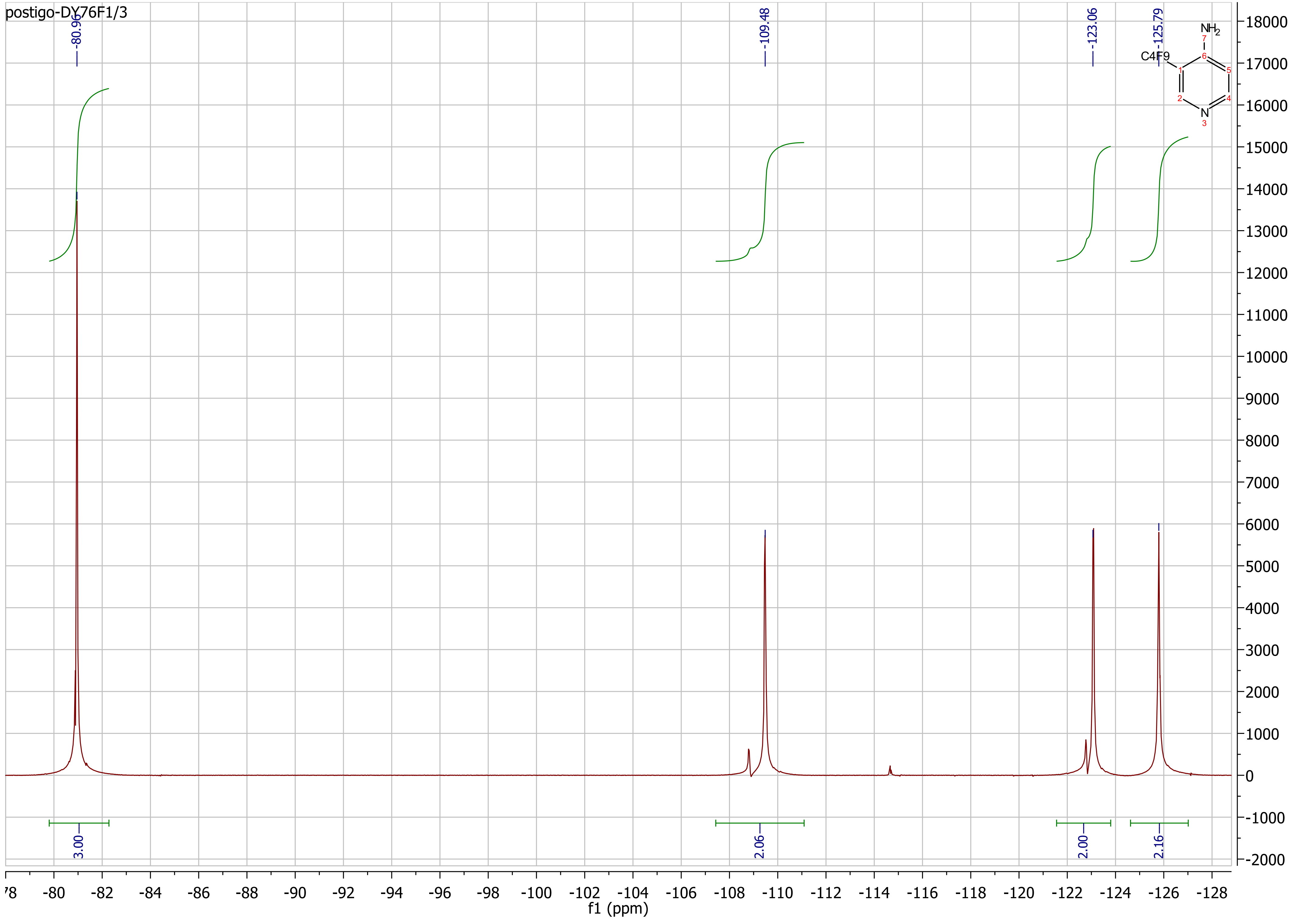
postigo-DY76F1/2
152.59
151.60
150.23
118.50
111.43
107.48
NH2
C4F9
N
f1 (ppm)



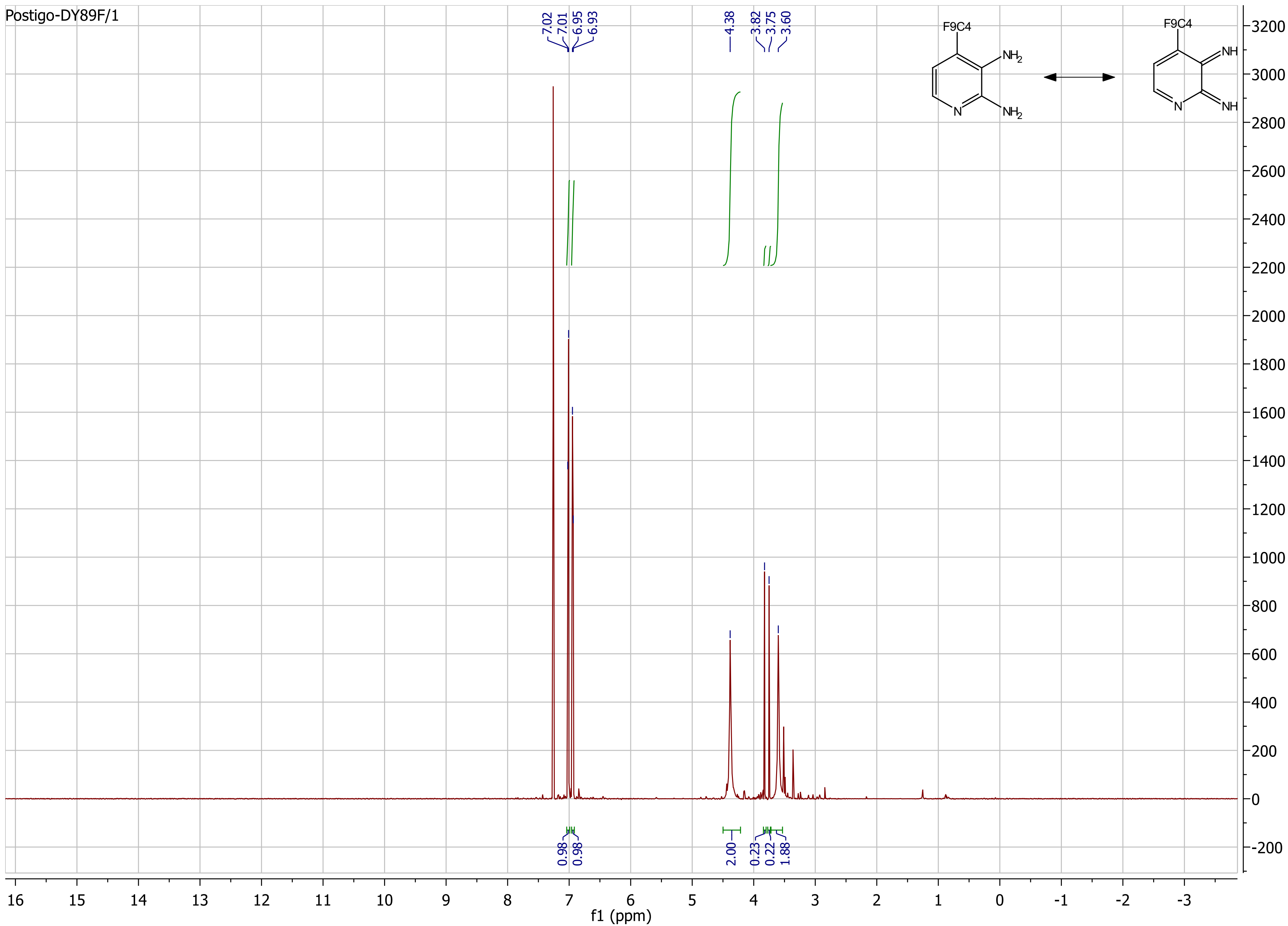
postigo-DY76F1/2
172.52
152.59
151.60
150.23
118.50
117.58
116.59
111.43
107.48
NH2
C4F9
N
f1 (ppm)



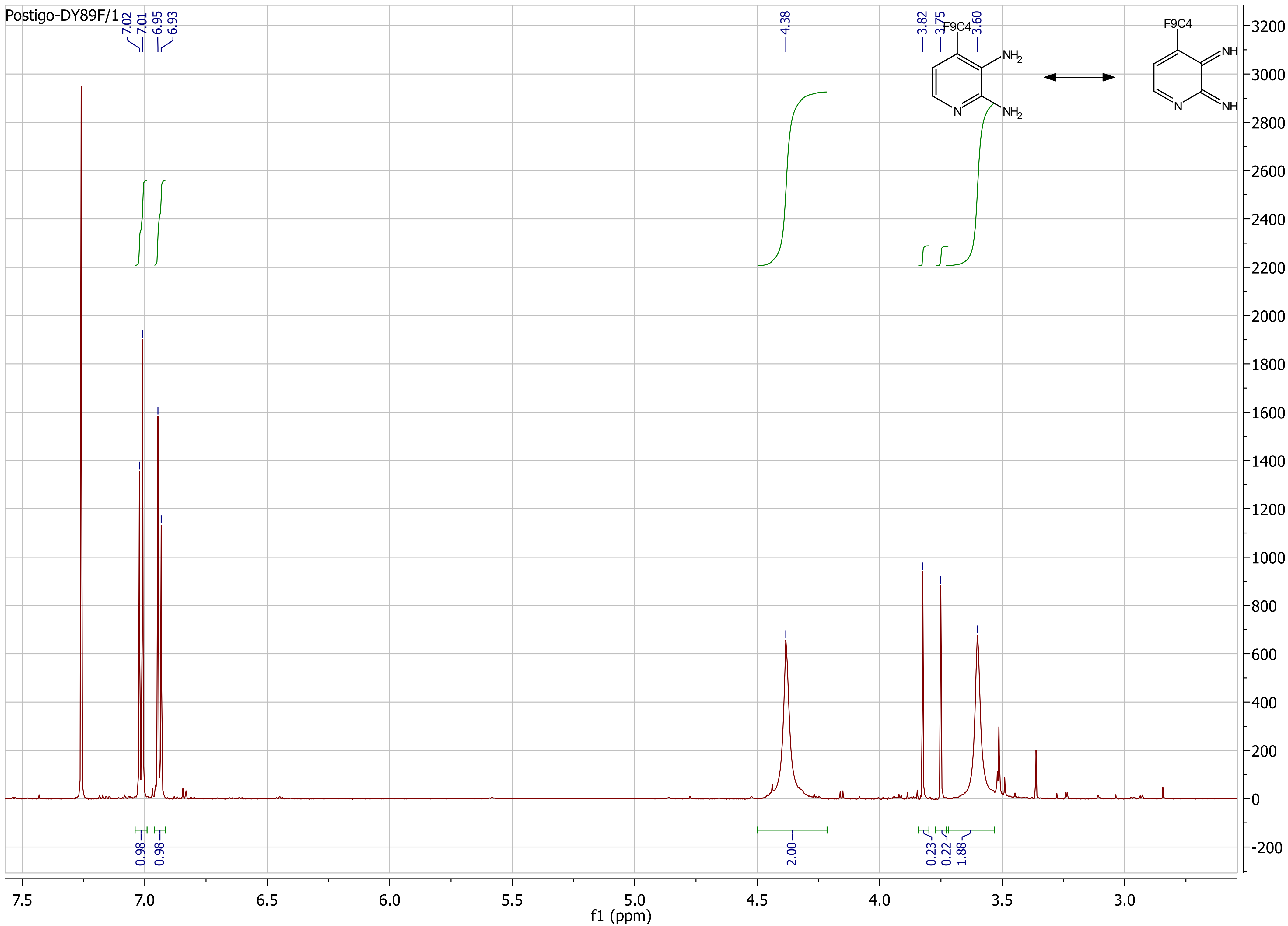
postigo-DY76F1/3
-80.96
-109.48
-123.06
-125.79
NH2
C4F9
N
3.00
2.06
2.00
2.16
f1 (ppm)

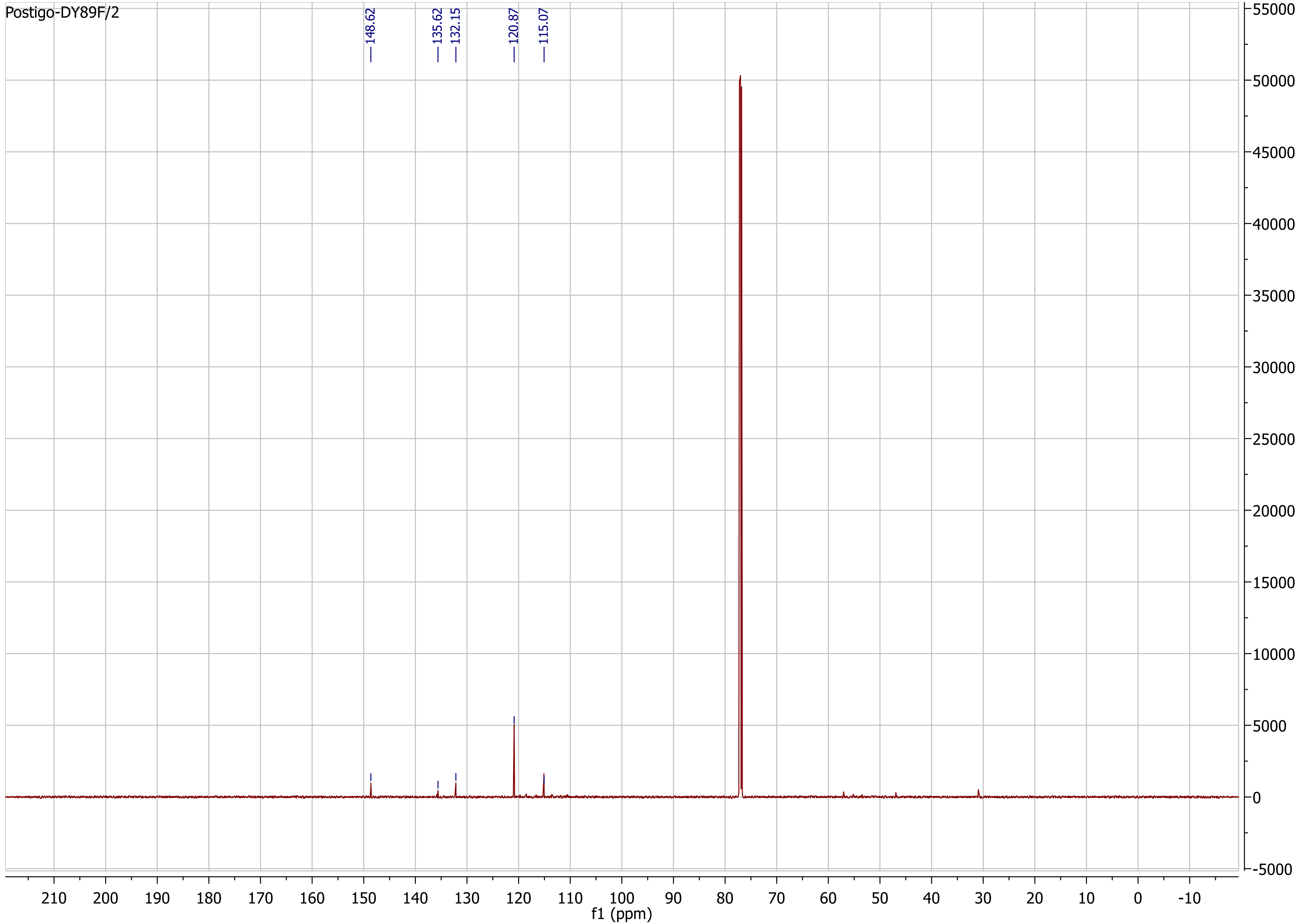


postigo-DY76F1/3
-80.96
-109.48
-123.06
-125.79
NH2
C4F9
N
3.00
2.06
2.00
2.16
f1 (ppm)

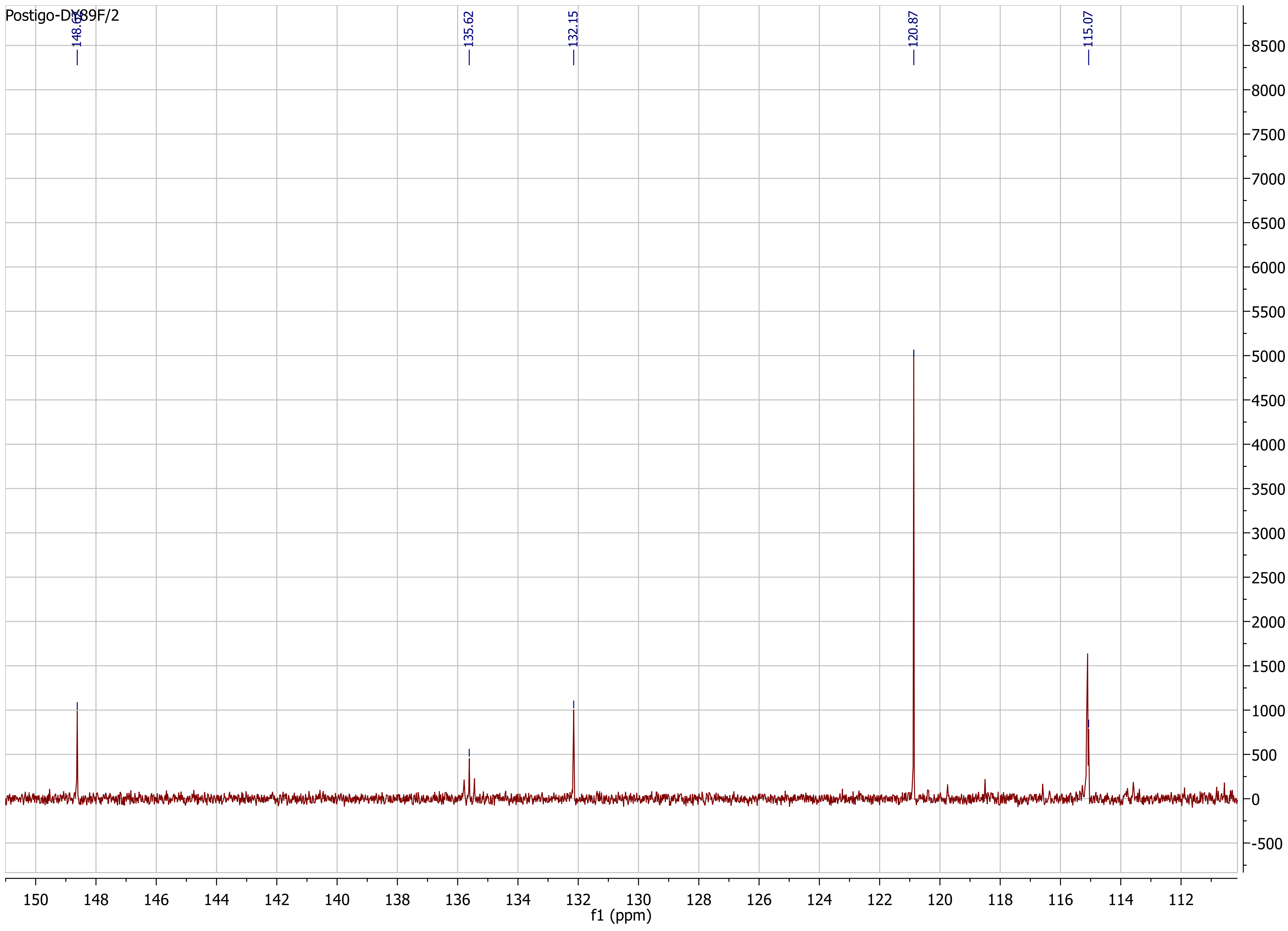


Postigo-DY89F/1
7.02
7.01
6.95
6.93
4.38
3.82
3.75
3.60
F9C4
NH2
N
NH2
F9C4
NH
N
NH
0.98
0.98
2.00
0.23
0.22
1.88
f1 (ppm)

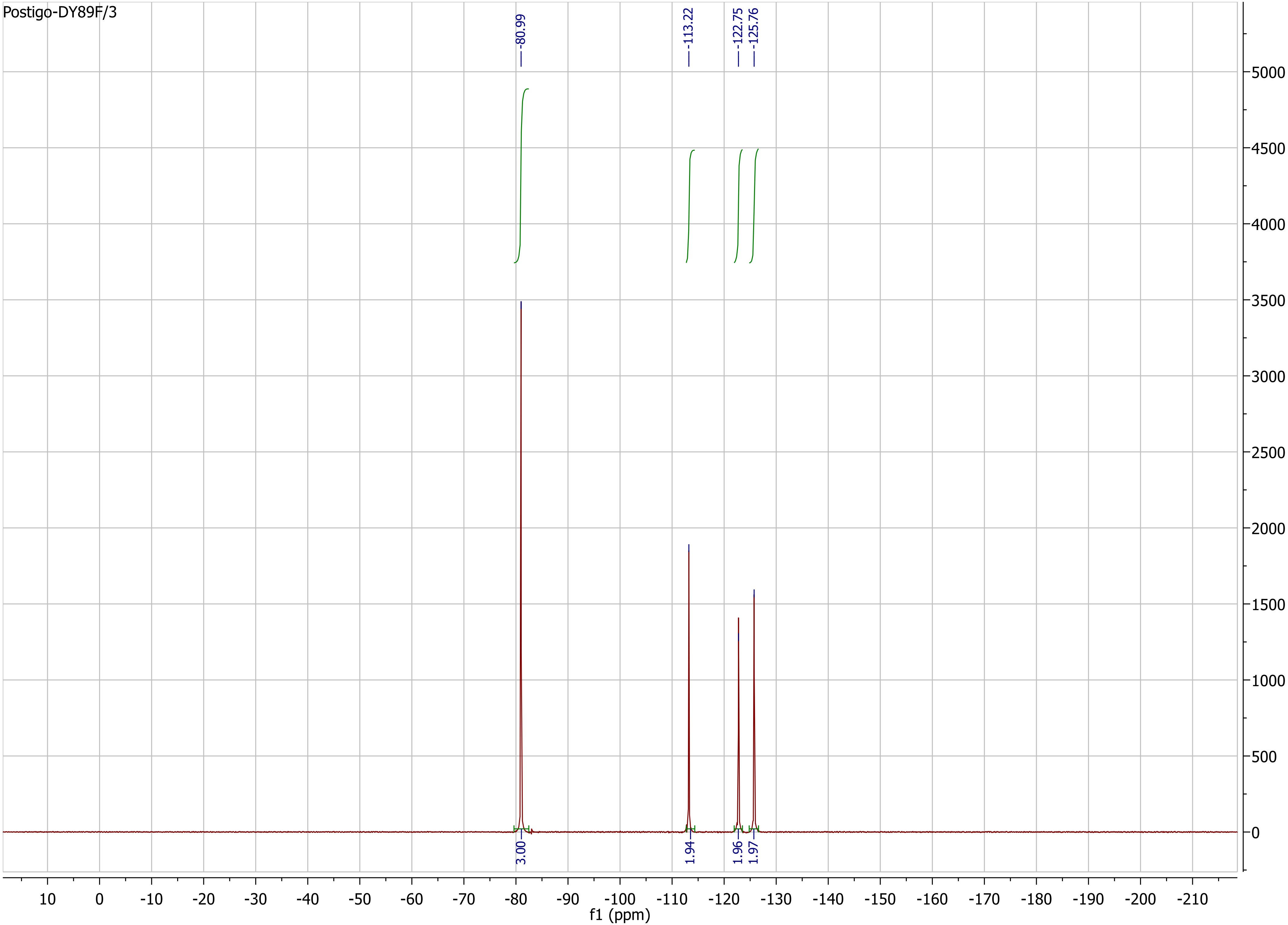

Postigo-DY89F/1
7.02
7.01
6.95
6.93
4.38
3.82
3.75
3.60
F9C4
NH2
N
NH2
F9C4
NH
N
NH
0.98
0.98
2.00
0.23
0.22
1.88
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
f1 (ppm)
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200



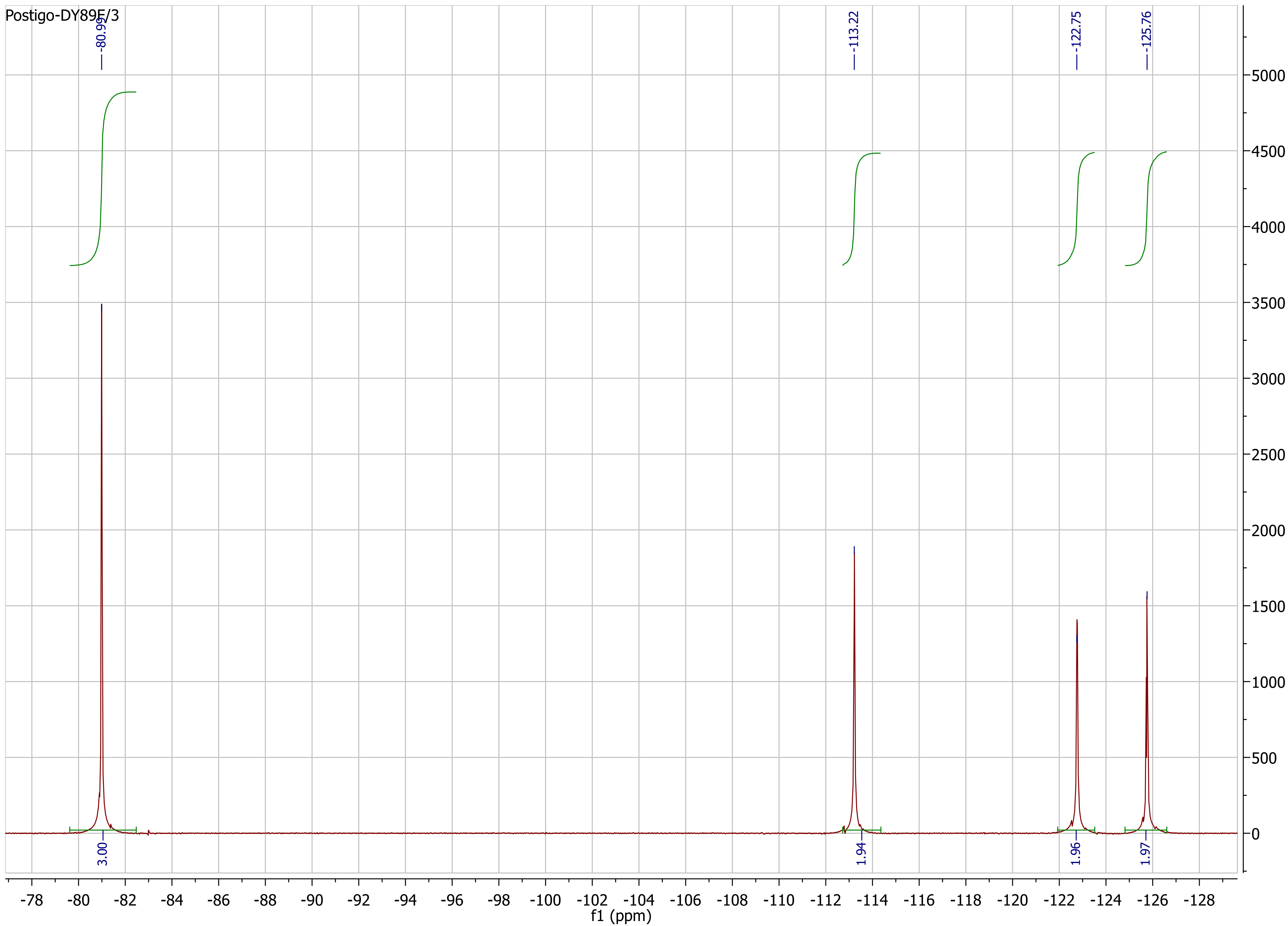
Postigo-DY89F/2
148.62
135.62
132.15
120.87
115.07
f1 (ppm)



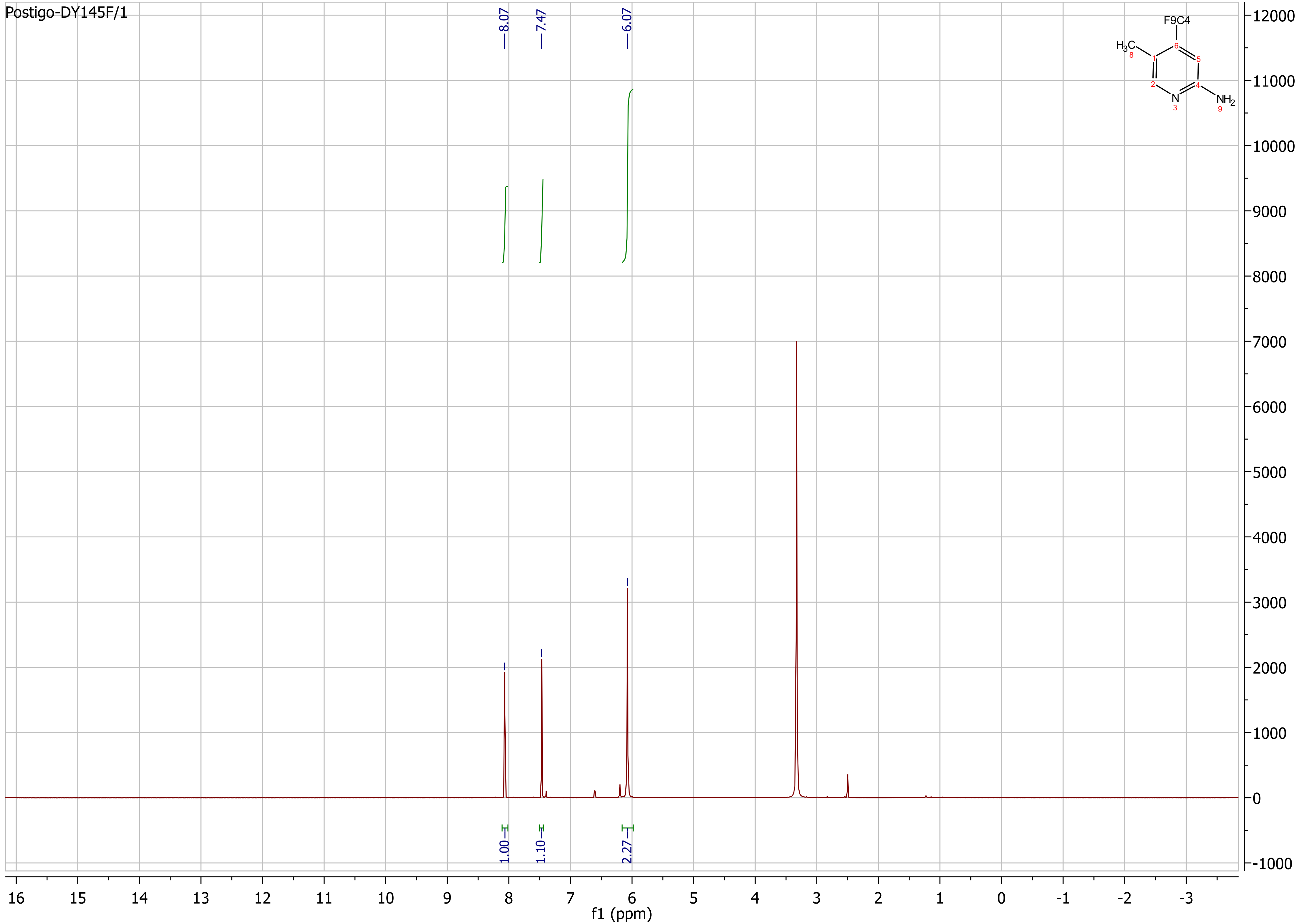
Postigo-DY89F/2
148.63
135.62
132.15
120.87
115.07
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-500
150
148
146
144
142
140
138
136
134
132
130
128
126
124
122
120
118
116
114
112
f1 (ppm)

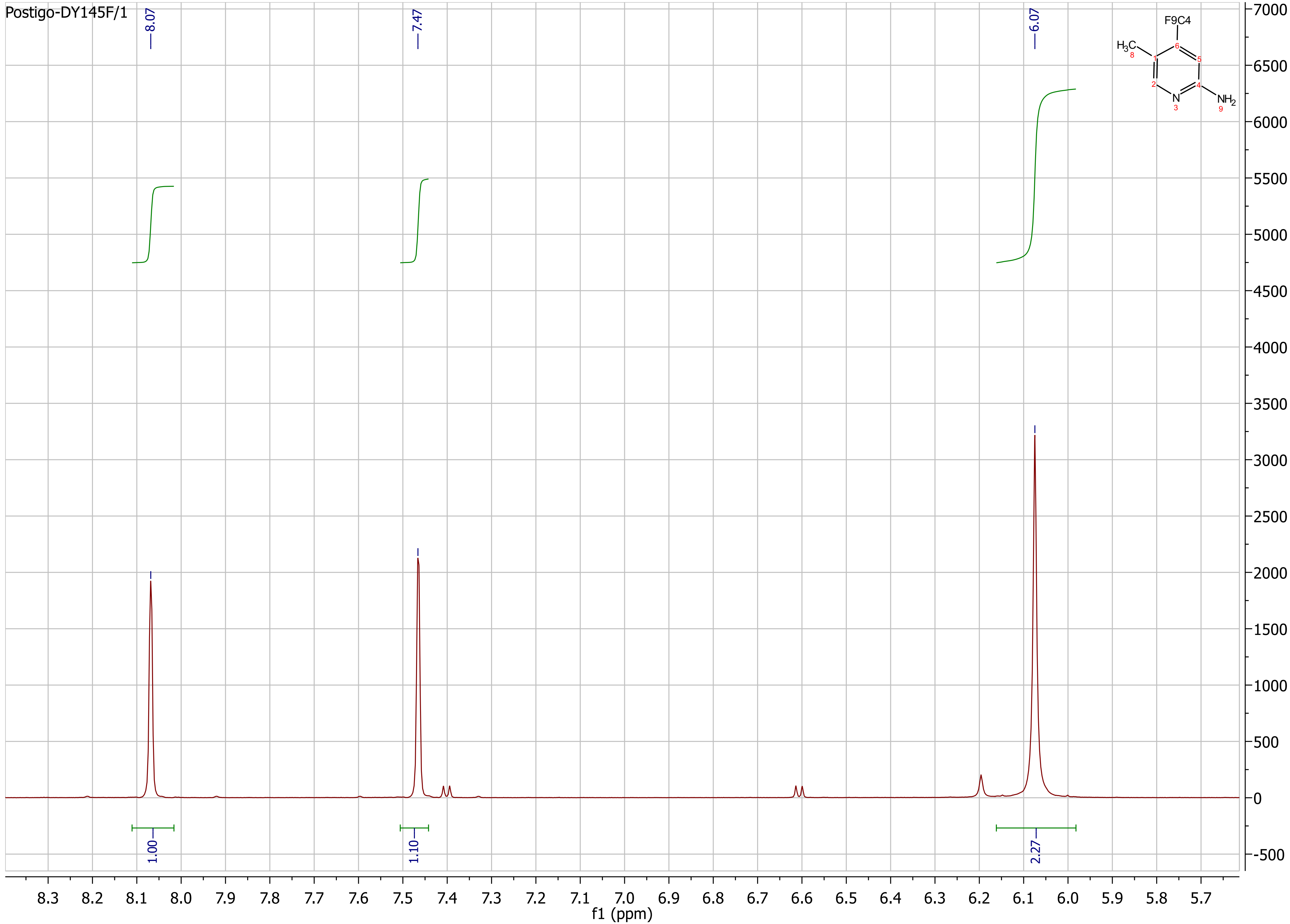


Postigo-DY89F/3
-80.99
-113.22
-122.75
-125.76
3.00
1.94
1.96
1.97
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
-210
f1 (ppm)

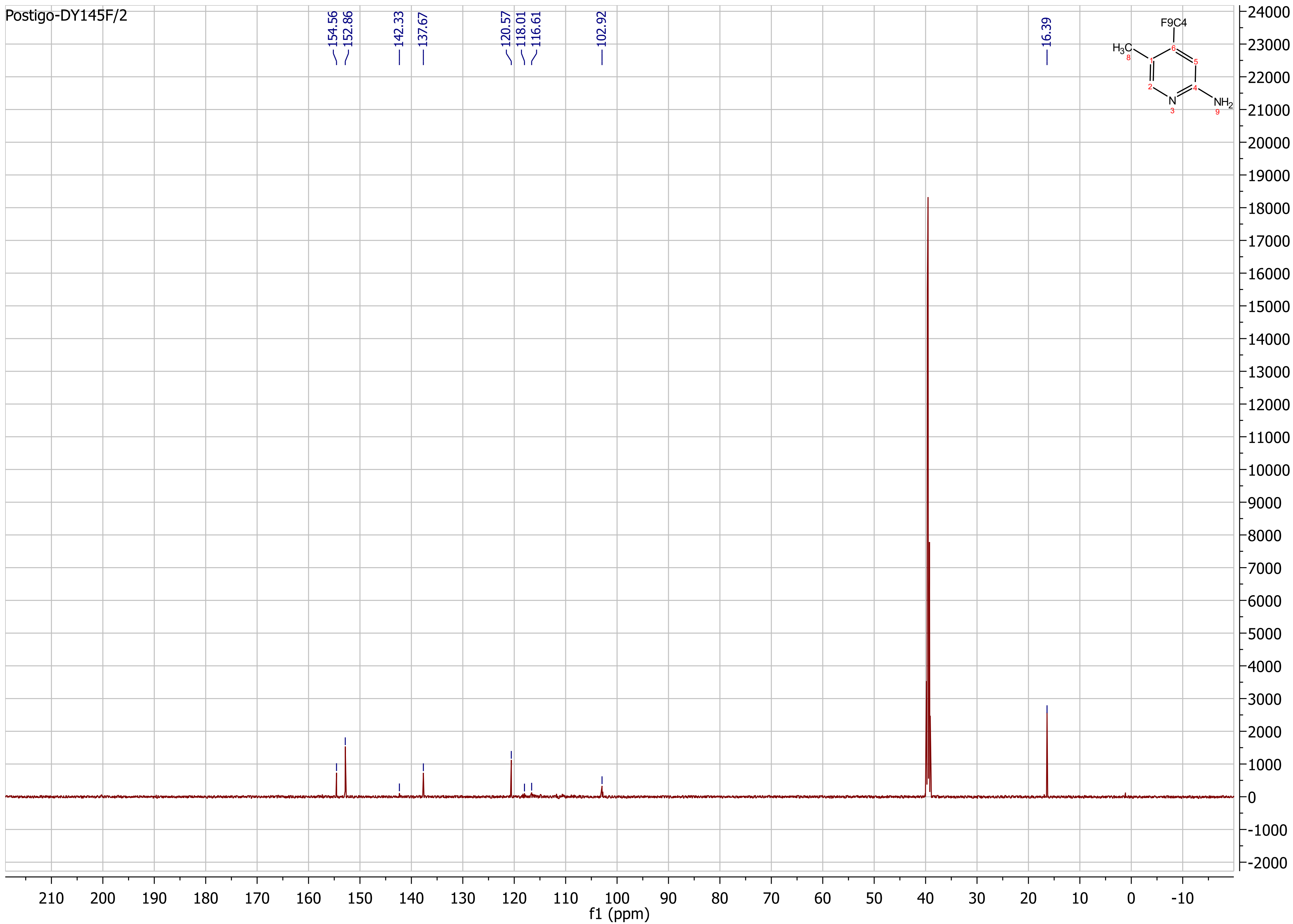


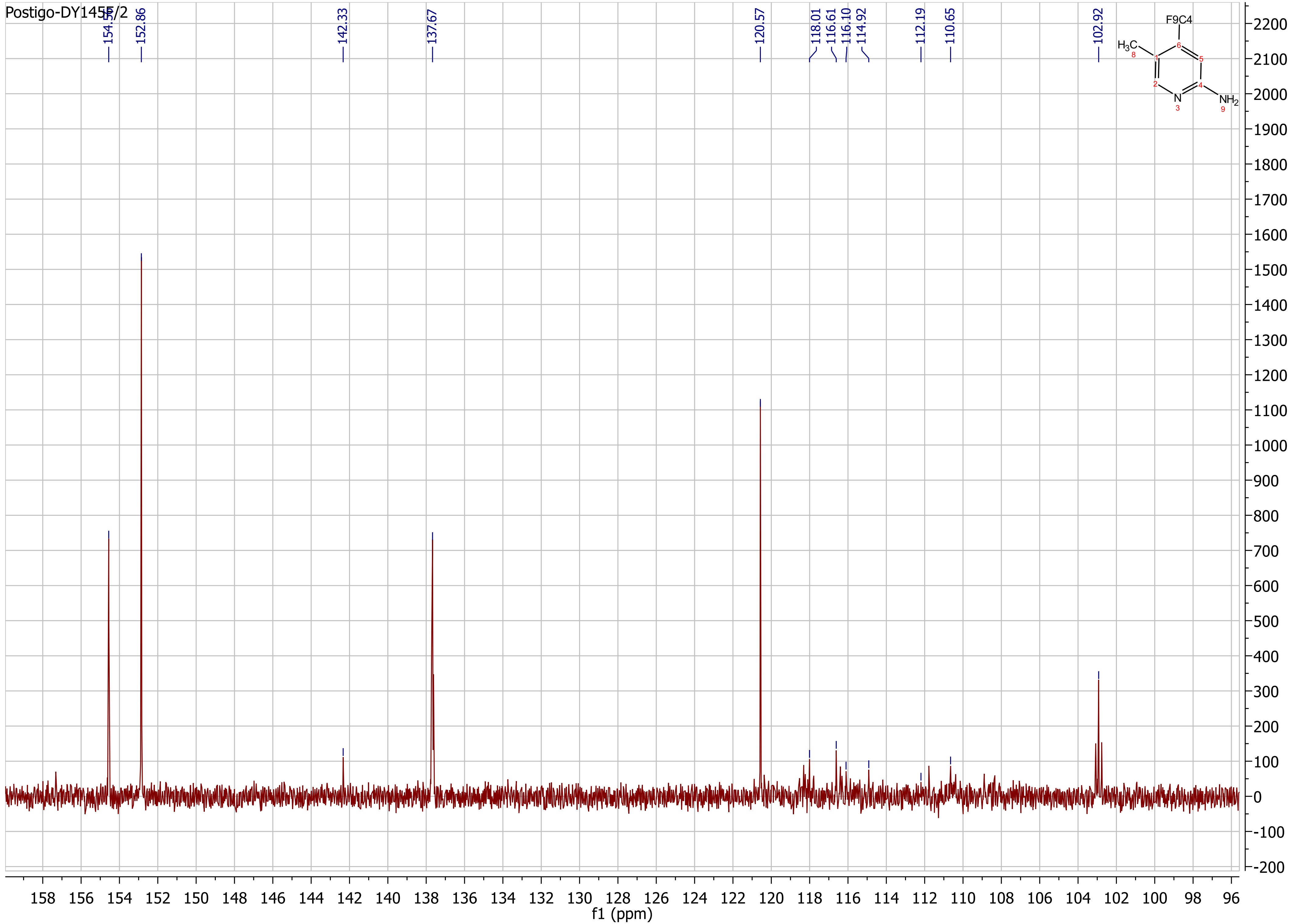
Postigo-DY89F/3
-80.99
-113.22
-122.75
-125.76
3.00
1.94
1.96
1.97
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-78 -80 -82 -84 -86 -88 -90 -92 -94 -96 -98 -100 -102 -104 -106 -108 -110 -112 -114 -116 -118 -120 -122 -124 -126 -128
f1 (ppm)

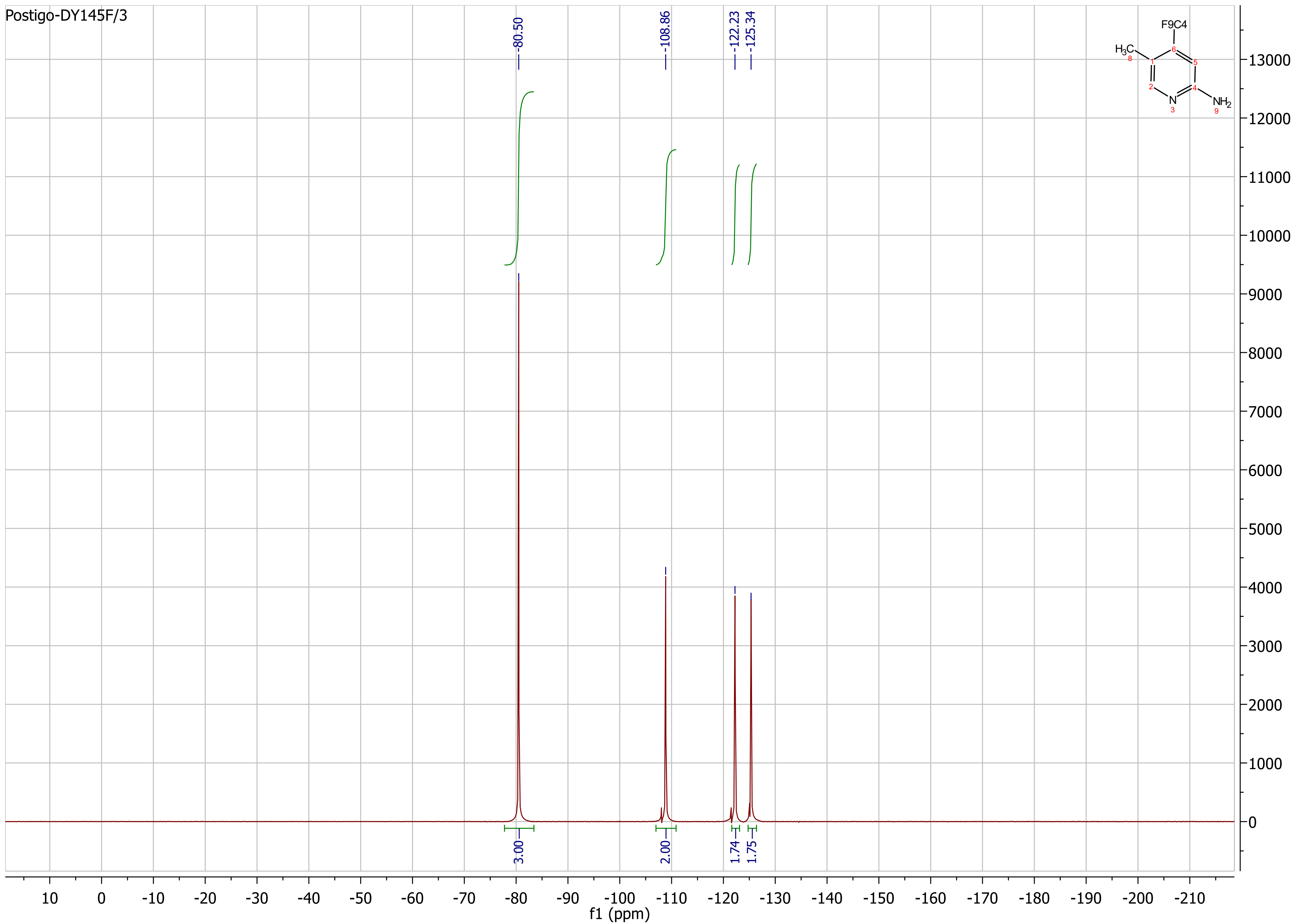

Postigo-DY145F/1
8.07
7.47
6.07
F9C4
H_3C
NH_2
N
1.00
1.10
2.27
f1 (ppm)



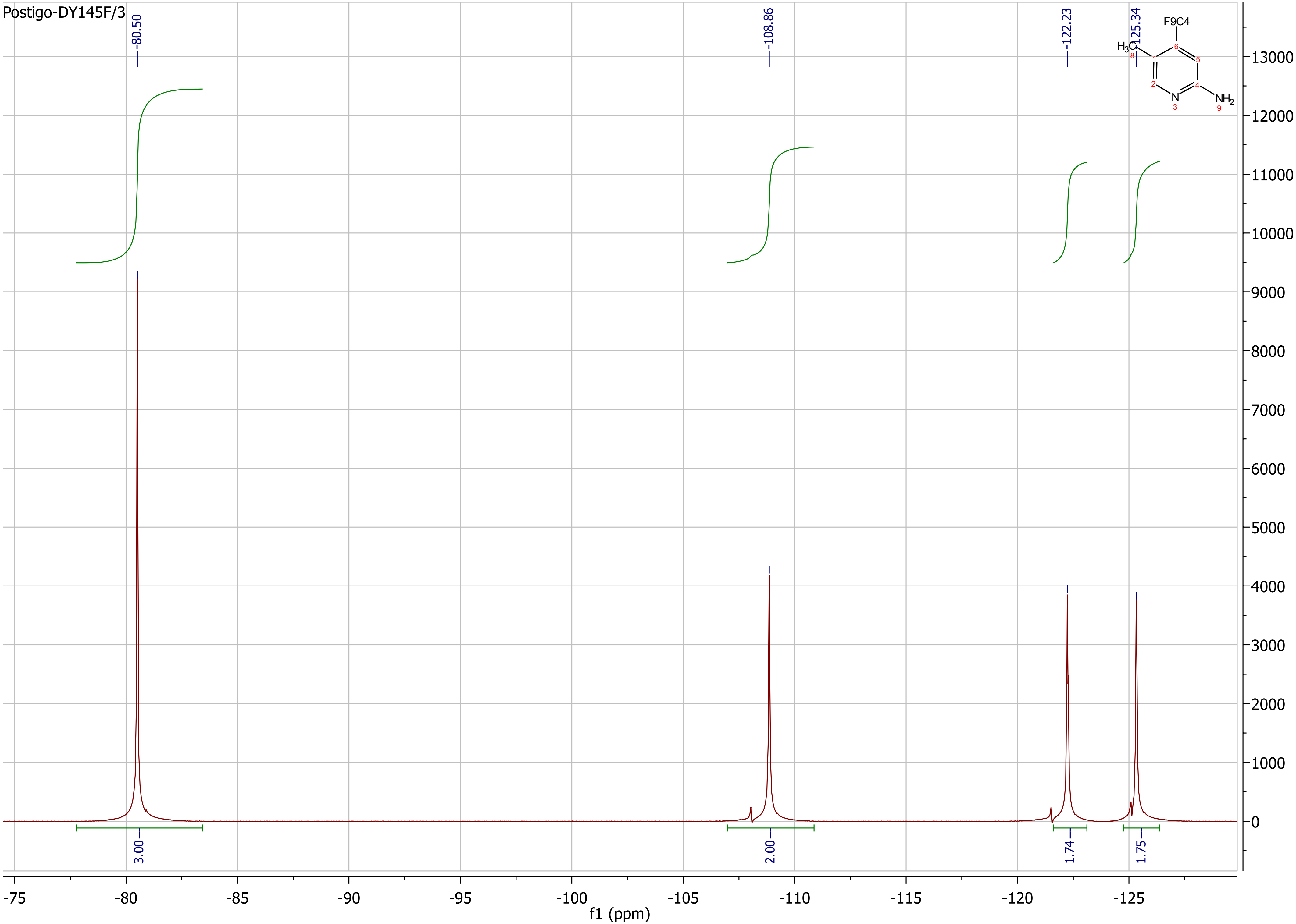
Postigo-DY145F/1
8.07
7.47
6.07
F9C4
H3C
NH2
N
1.00
1.10
2.27
8.3
8.2
8.1
8.0
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7.0
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
6.0
5.9
5.8
5.7
f1 (ppm)
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-500


Postigo-DY145F/2
154.56
152.86
142.33
137.67
120.57
118.01
116.61
102.92
16.39
F9C4
H_3C
NH_2
N
f1 (ppm)

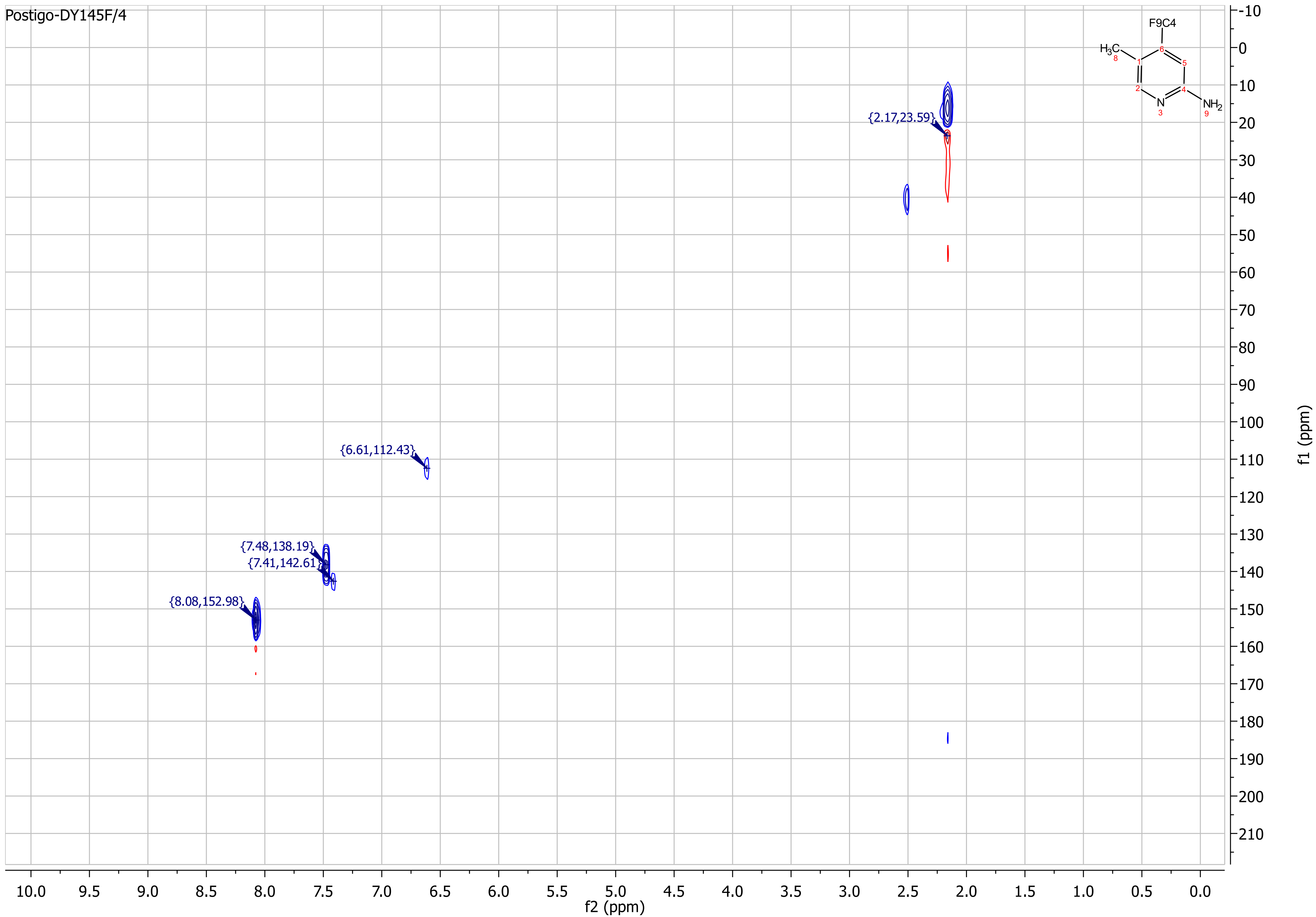

Postigo-DY145F/2
154.57
152.86
142.33
137.67
120.57
118.01
116.61
116.10
114.92
112.19
110.65
102.92
F9C4
H3C
NH2
N
f1 (ppm)



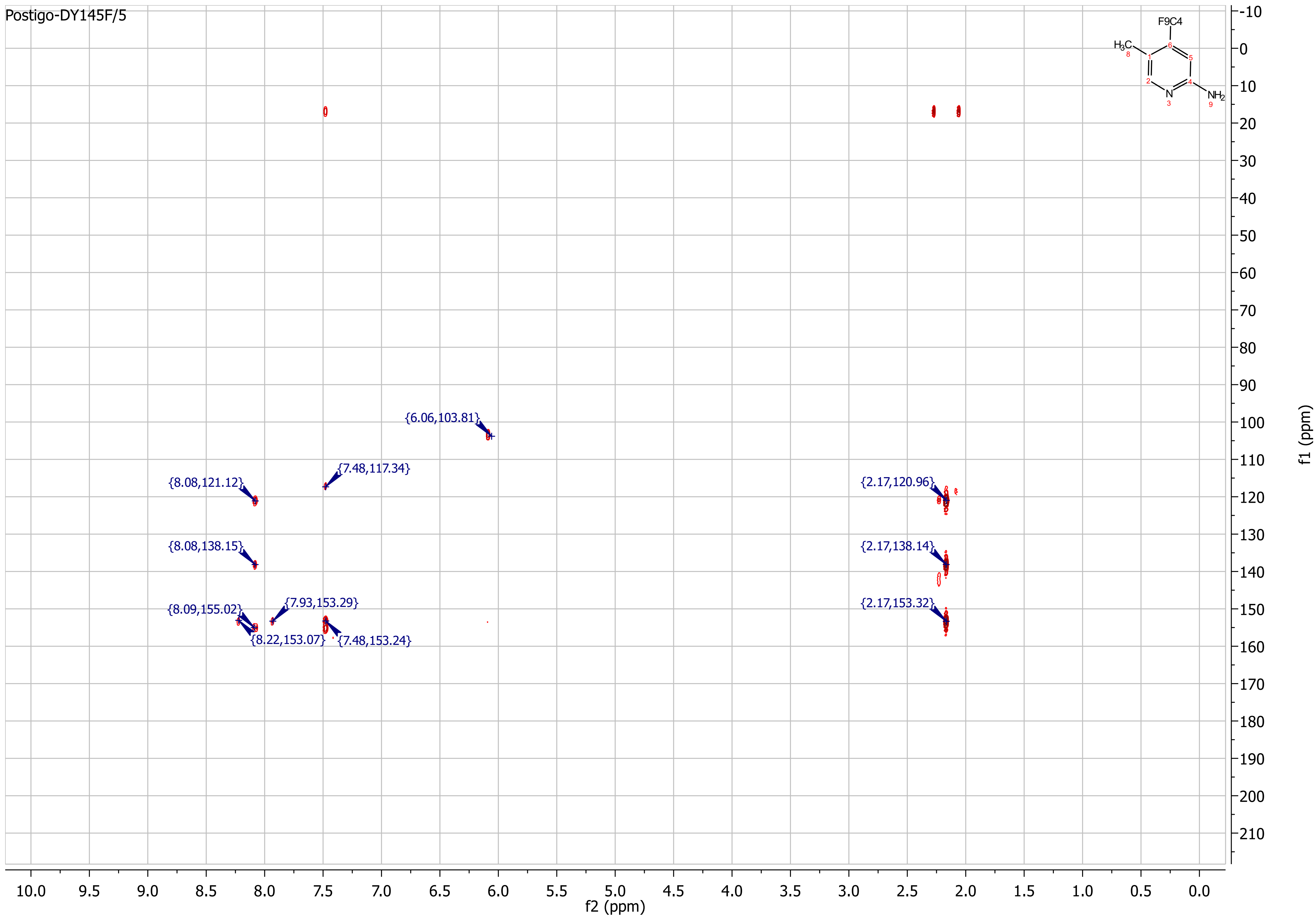
Postigo-DY145F/3
-80.50
-108.86
-122.23
-125.34
F9C4
H3C
NH2
N
3.00
2.00
1.74
1.75
f1 (ppm)



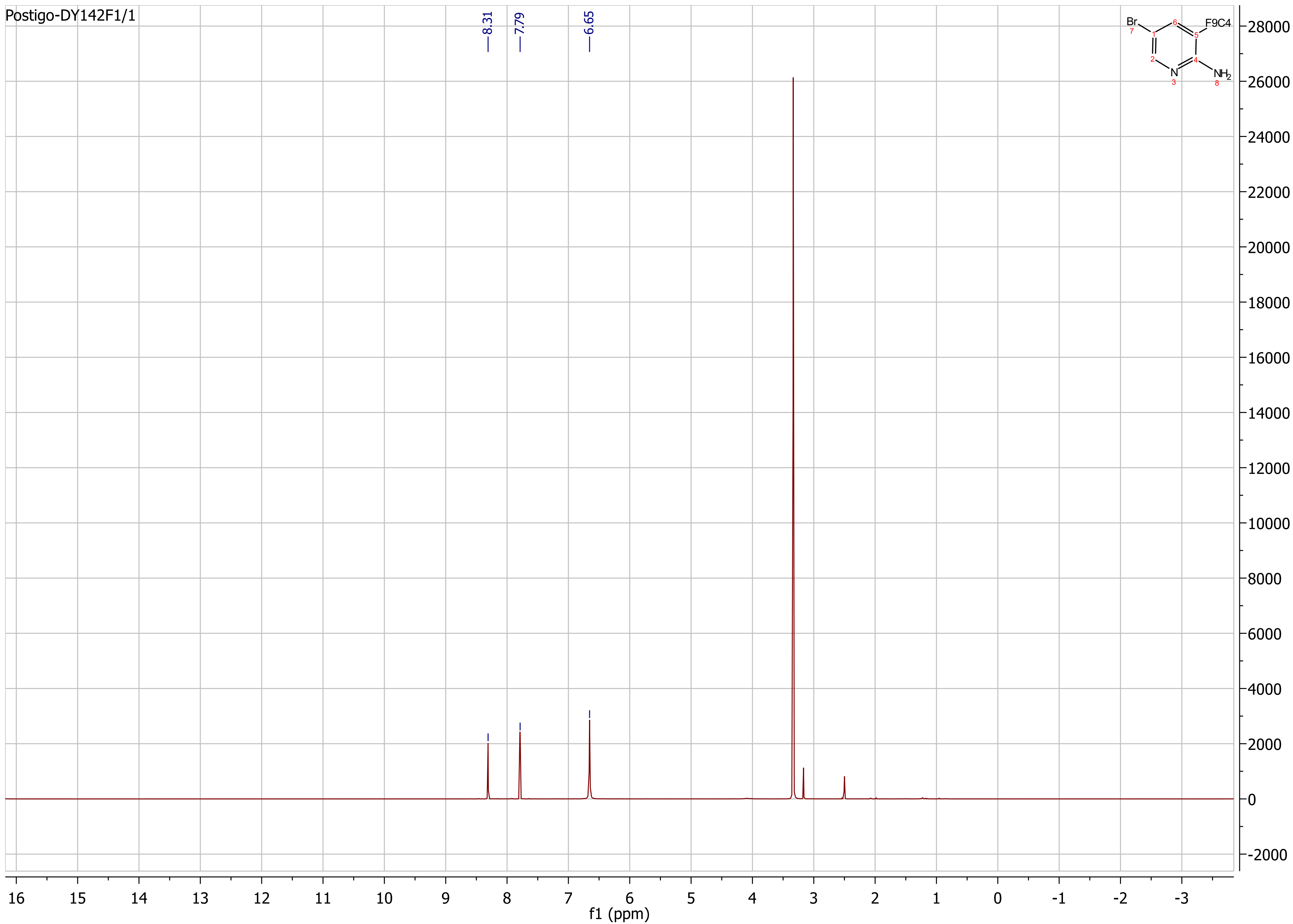
Postigo-DY145F/3
-80.50
-108.86
-122.23
-125.34
F9C4
H3C
NH2
3.00
2.00
1.74
1.75
f1 (ppm)



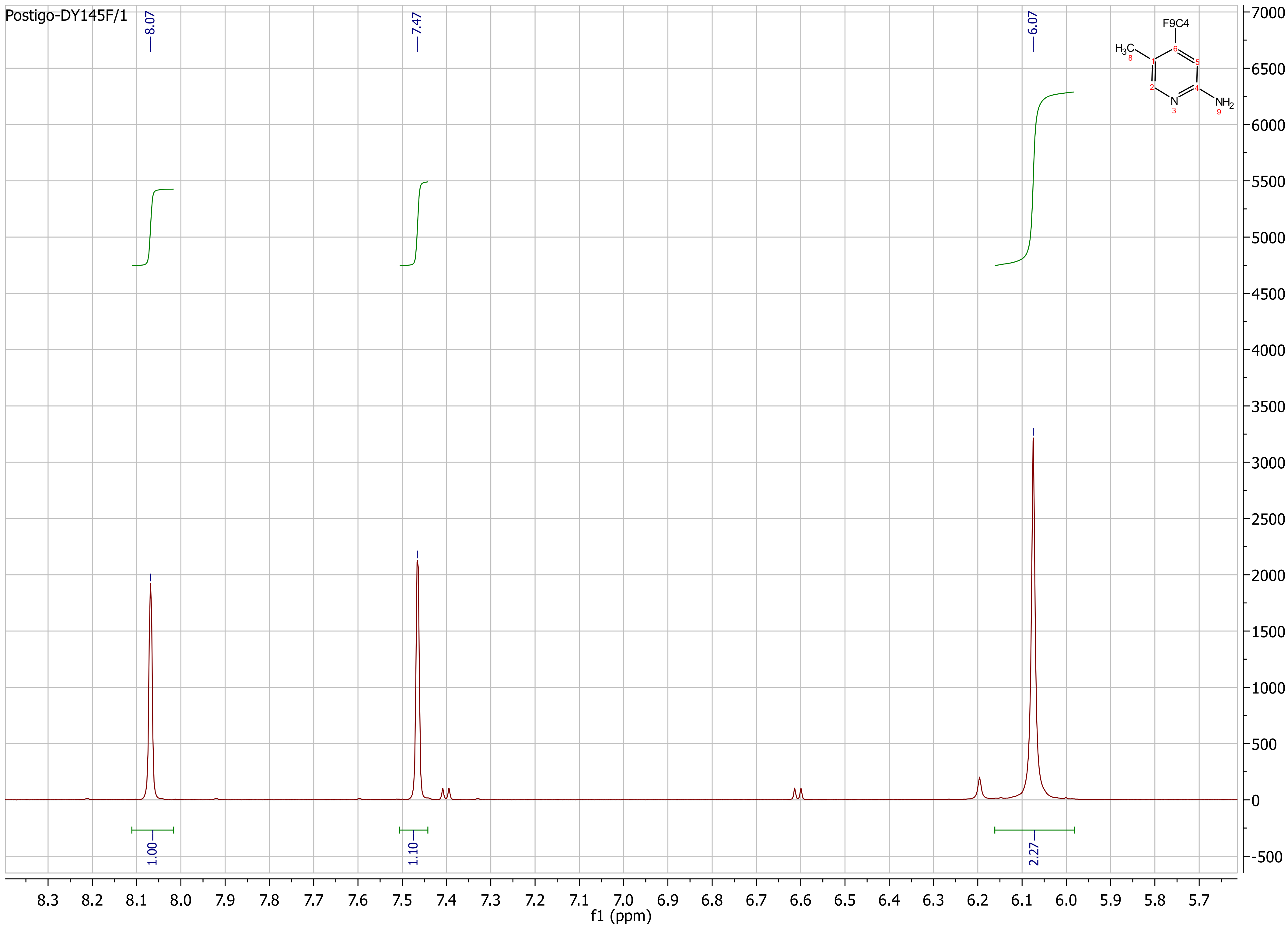
Postigo-DY145F/4
F9C4
H_3C
NH_2
N
{2.17,23.59}
{6.61,112.43}
{7.48,138.19}
{7.41,142.61}
{8.08,152.98}
f2 (ppm)
f1 (ppm)



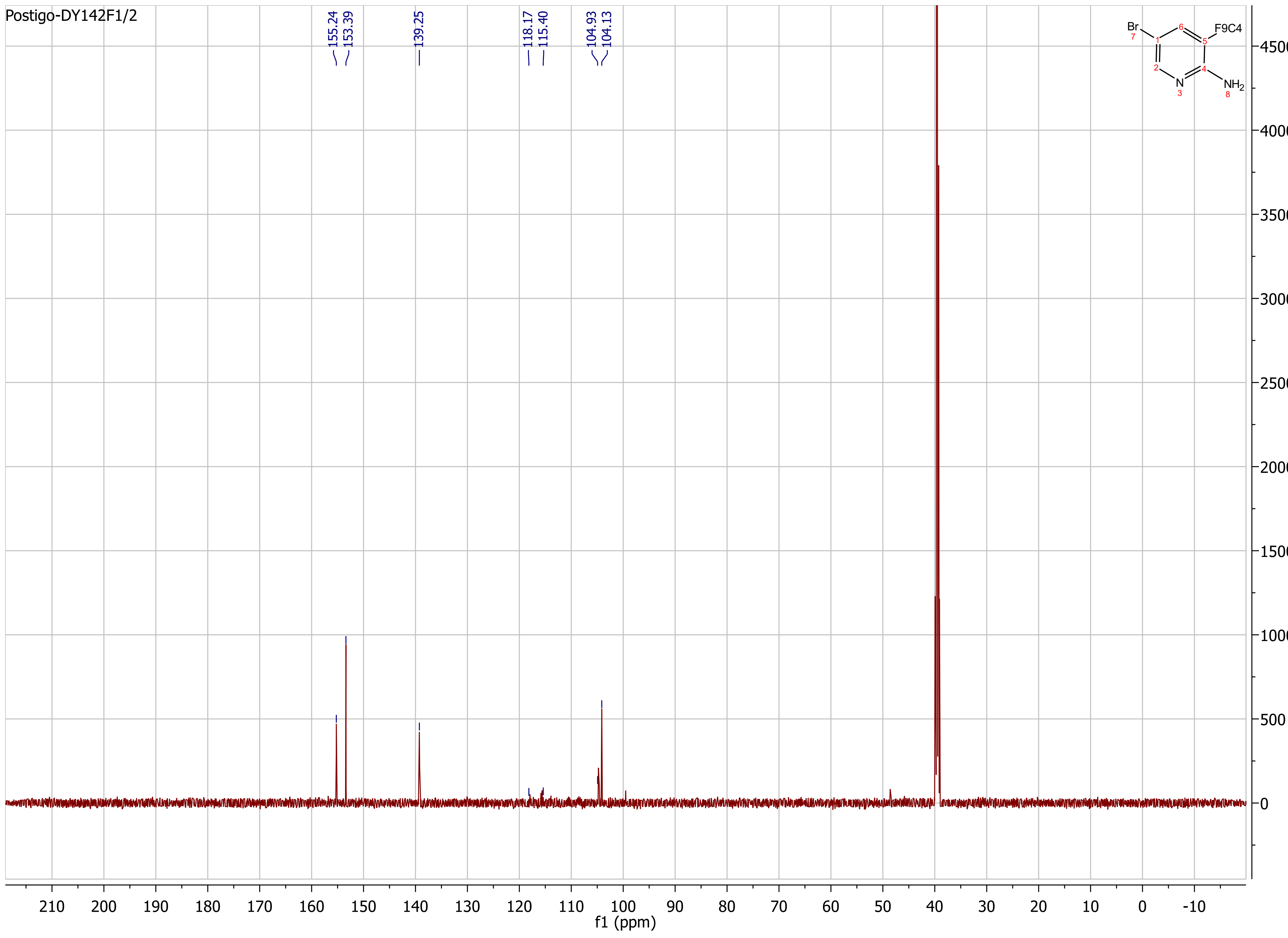
Postigo-DY145F/5
F9C4
H3C
NH2
{6.06,103.81}
{7.48,117.34}
{8.08,121.12}
{2.17,120.96}
{8.08,138.15}
{2.17,138.14}
{8.09,155.02}
{7.93,153.29}
{2.17,153.32}
{8.22,153.07}
{7.48,153.24}
f2 (ppm)
f1 (ppm)



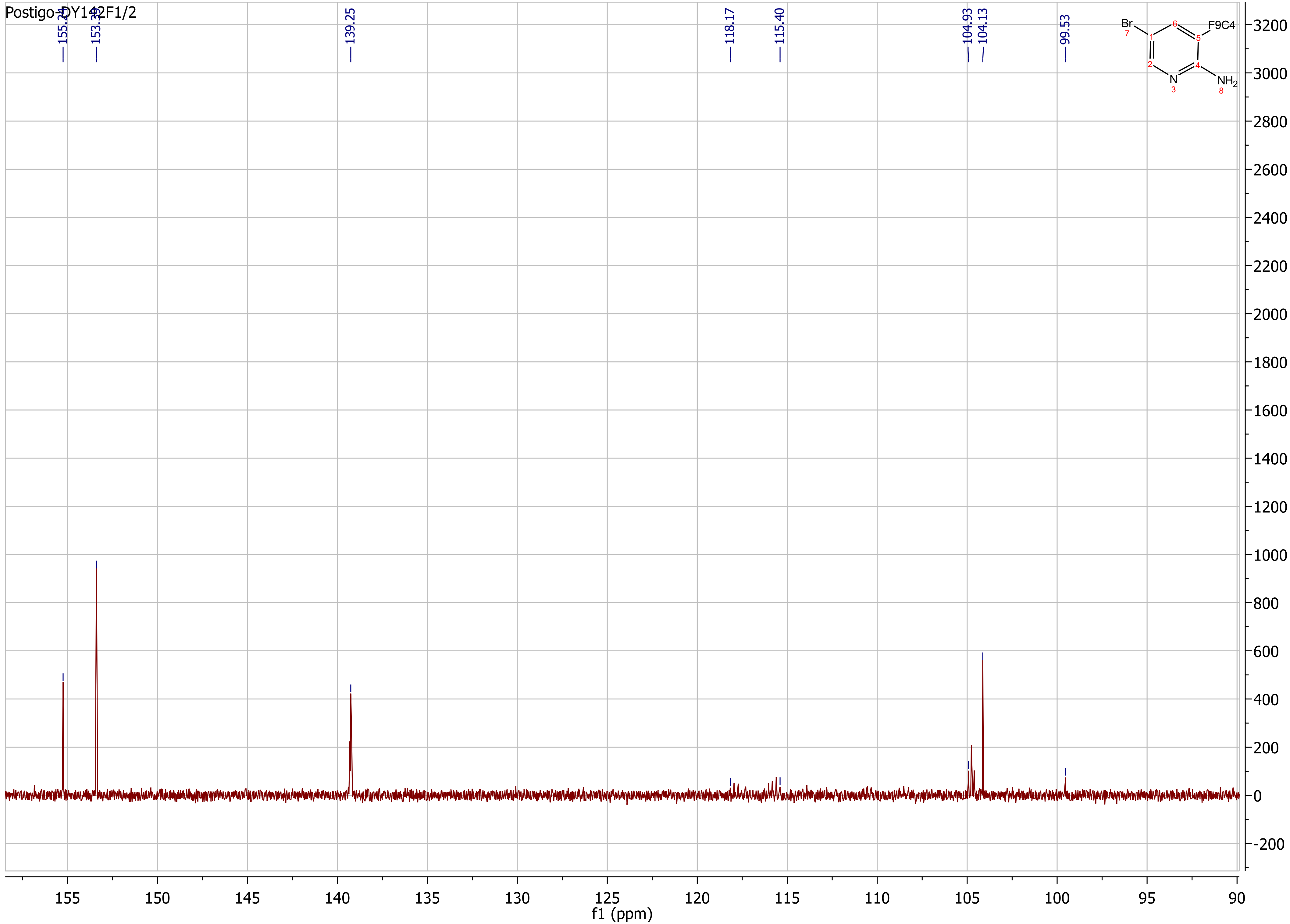
Postigo-DY142F1/1
8.31
7.79
6.65
Br
F9C4
N
NH2
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
f1 (ppm)



Postigo-DY145F/1
8.07
7.47
6.07
F9C4
H_3C
NH2
N
1.00
1.10
2.27
f1 (ppm)

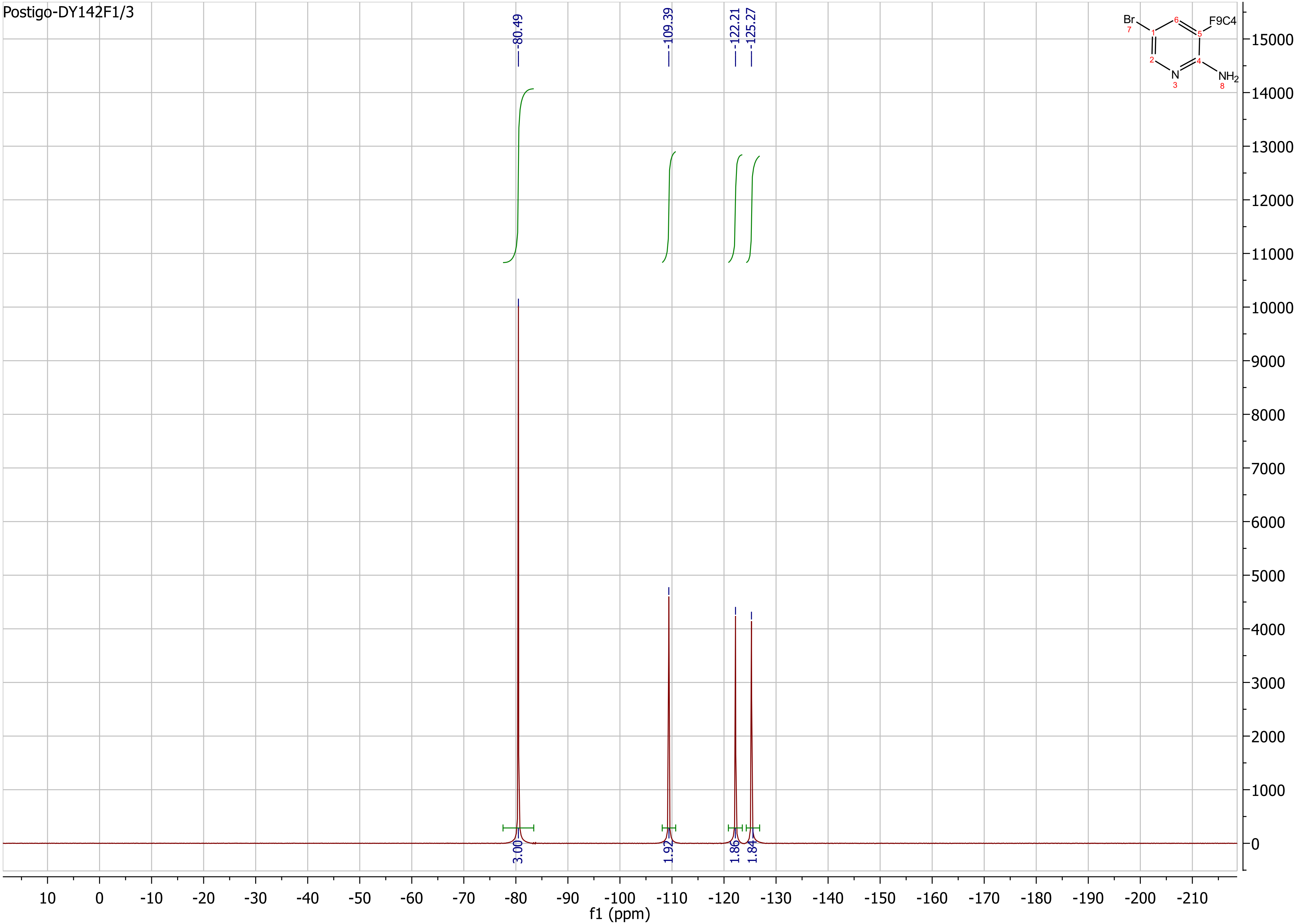


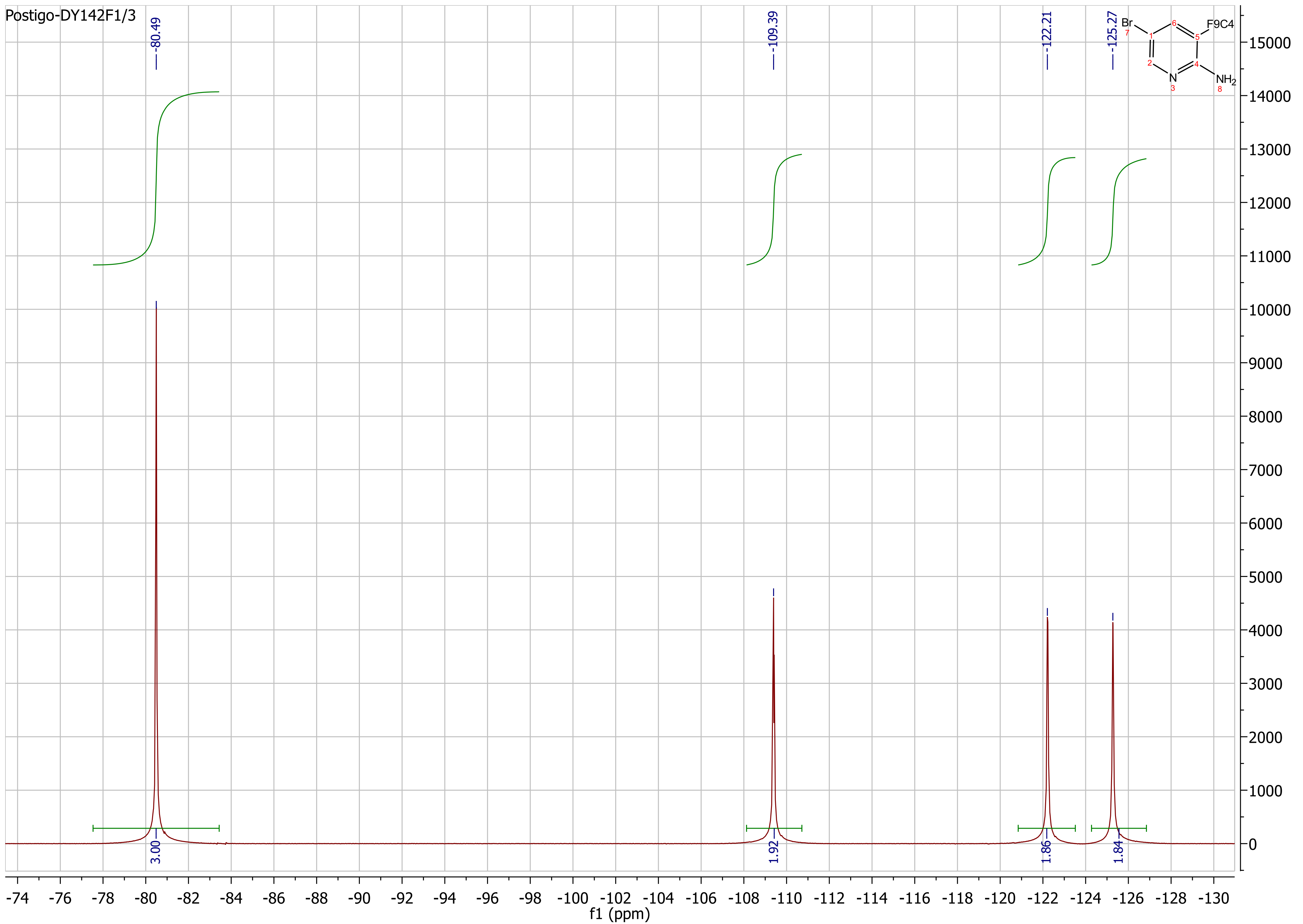
Postigo-DY142F1/2
155.24
153.39
139.25
118.17
115.40
104.93
104.13
Br
F9C4
NH2
N
f1 (ppm)



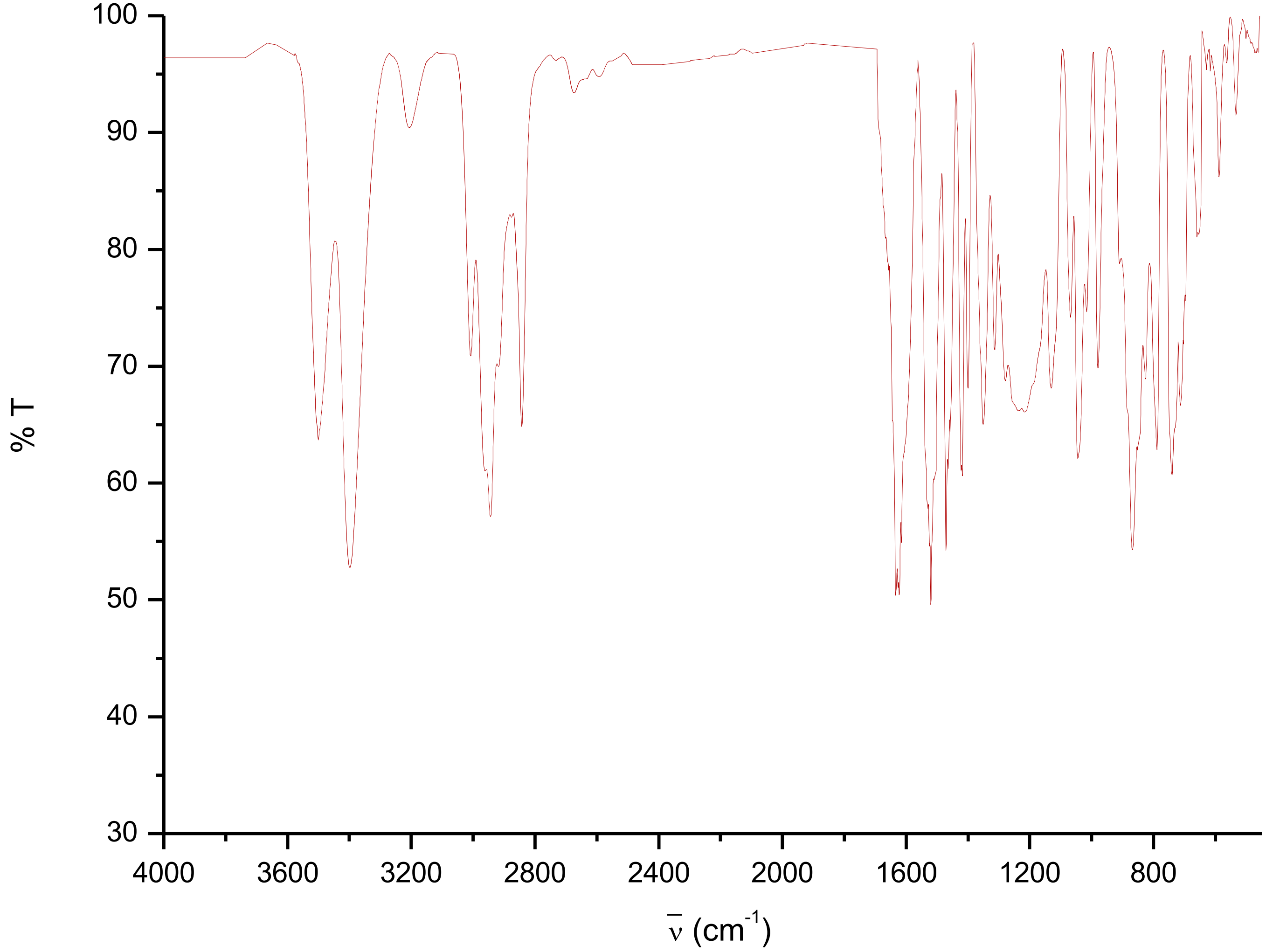
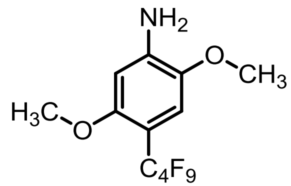
Postigo-DY142F1/2
155.21
153.32
139.25
118.17
115.40
104.93
104.13
99.53
Br
F9C4
NH2
N
f1 (ppm)

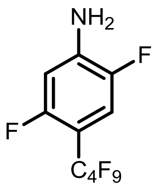
Postigo-DY142F1/3

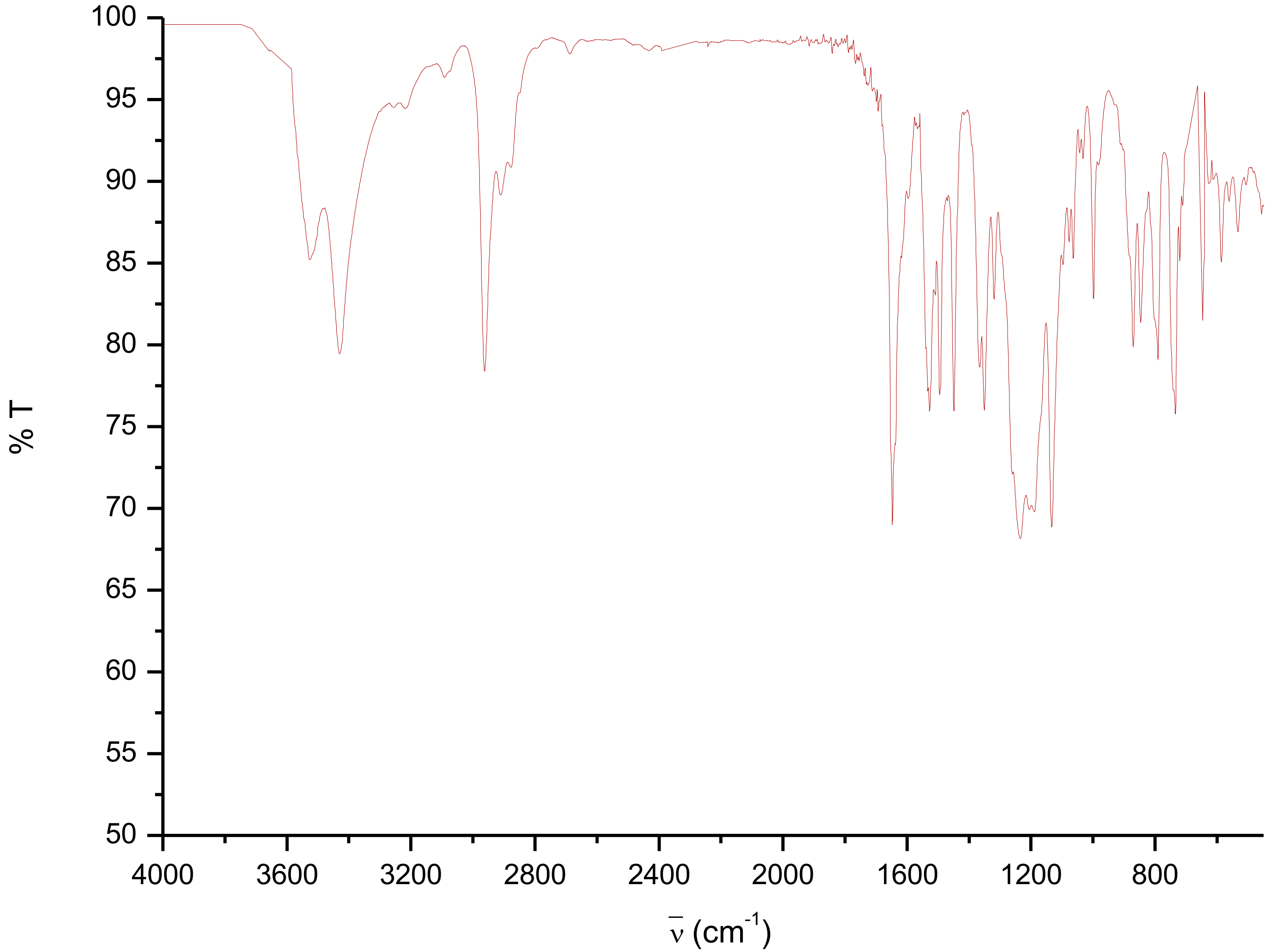


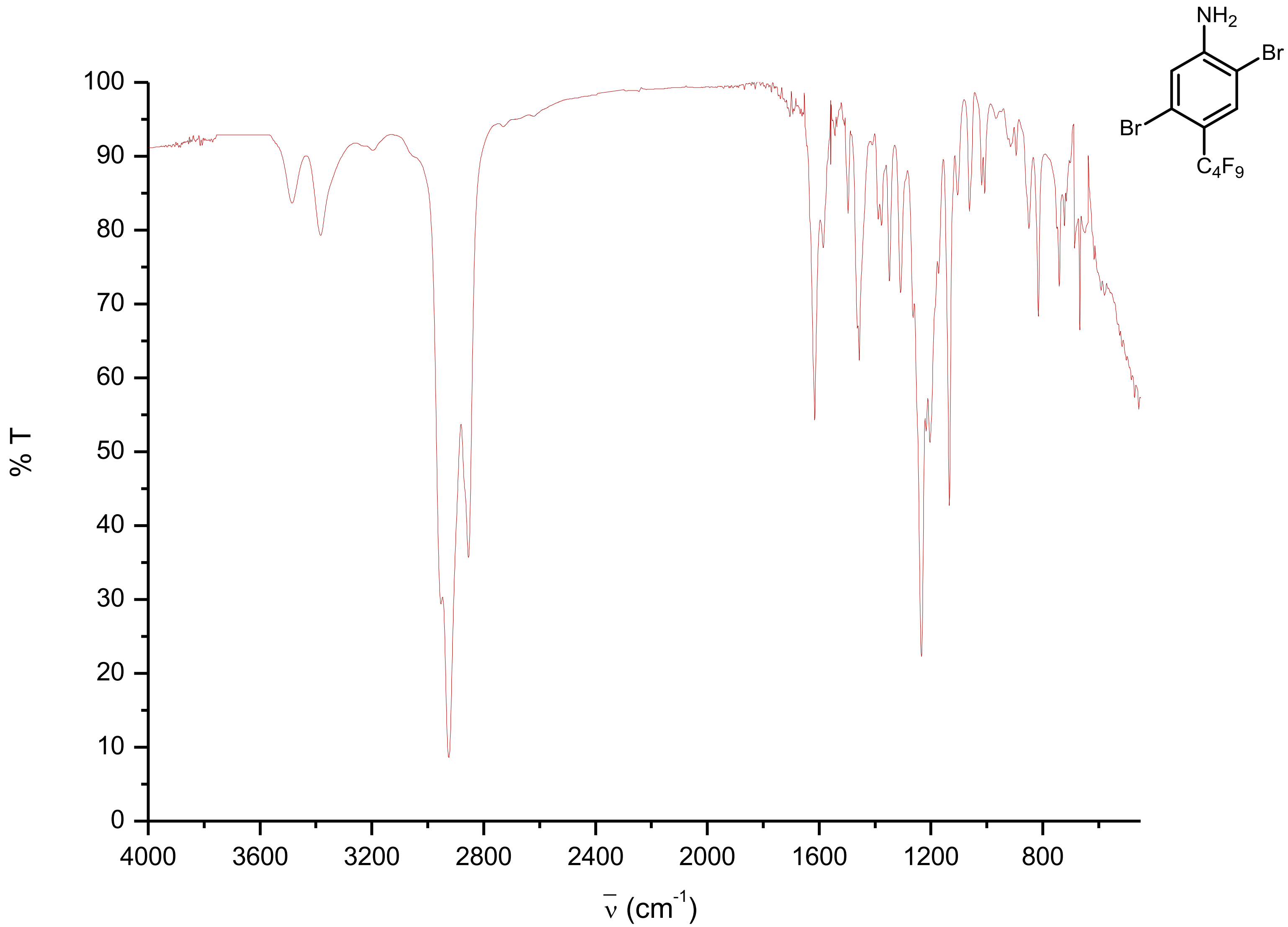


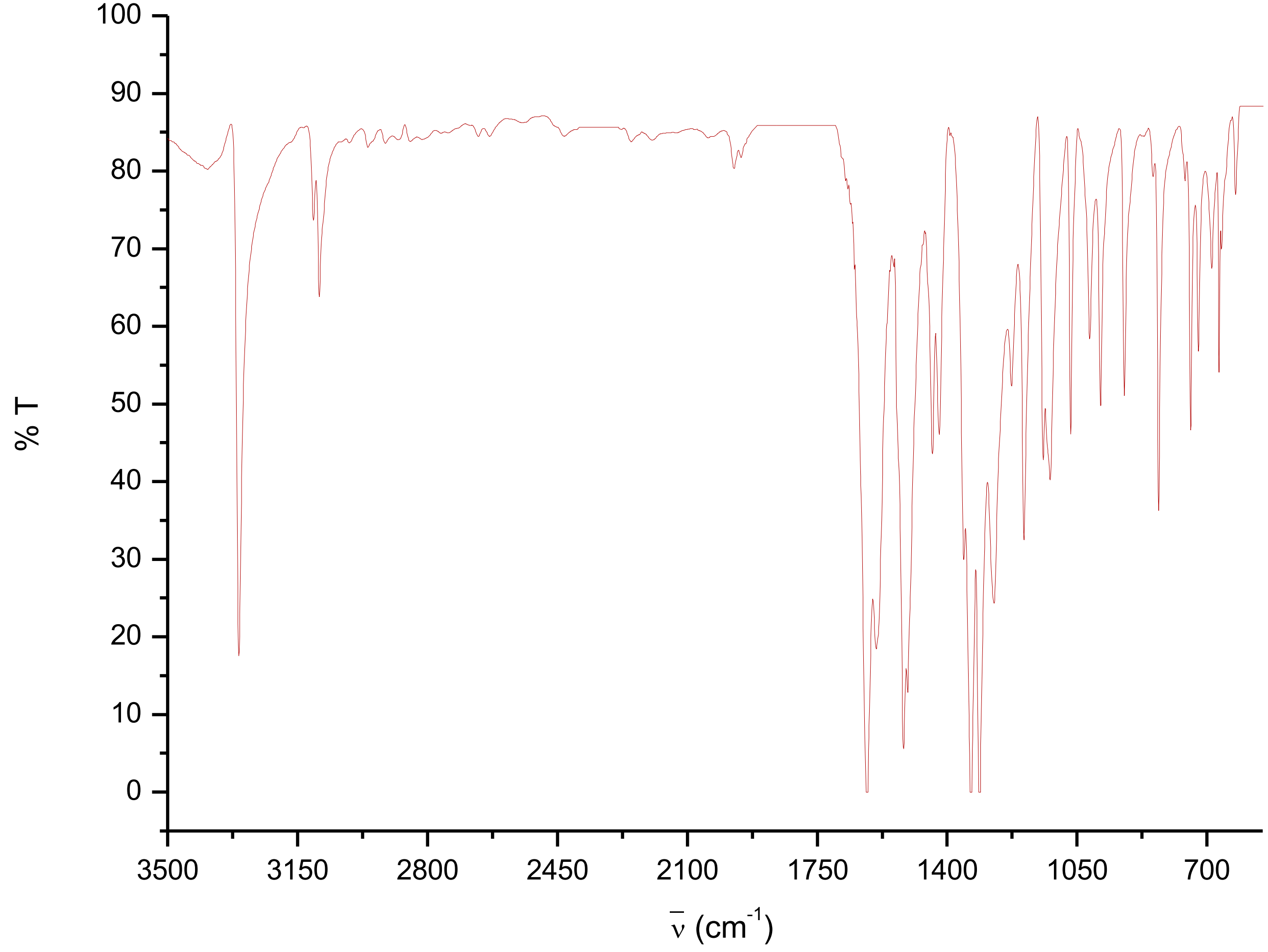
Postigo-DY142F1/3
-80.49
-109.39
-122.21
-125.27
Br
F9C4
N
NH2
3.00
1.92
1.86
1.84
f1 (ppm)


100
90
80
70
60
50
40
30
% T
4000
3600
3200
2800
2400
2000
1600
1200
800
$\bar{\nu}$ (cm^{-1})

NH2
O
CH3
H3C
O
C4F9

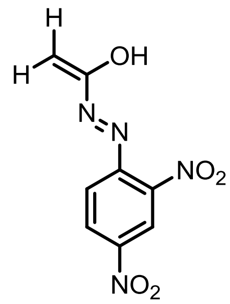

NH2
F
F
C4F9


100
95
90
85
80
75
70
65
60
55
50
% T
4000
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)

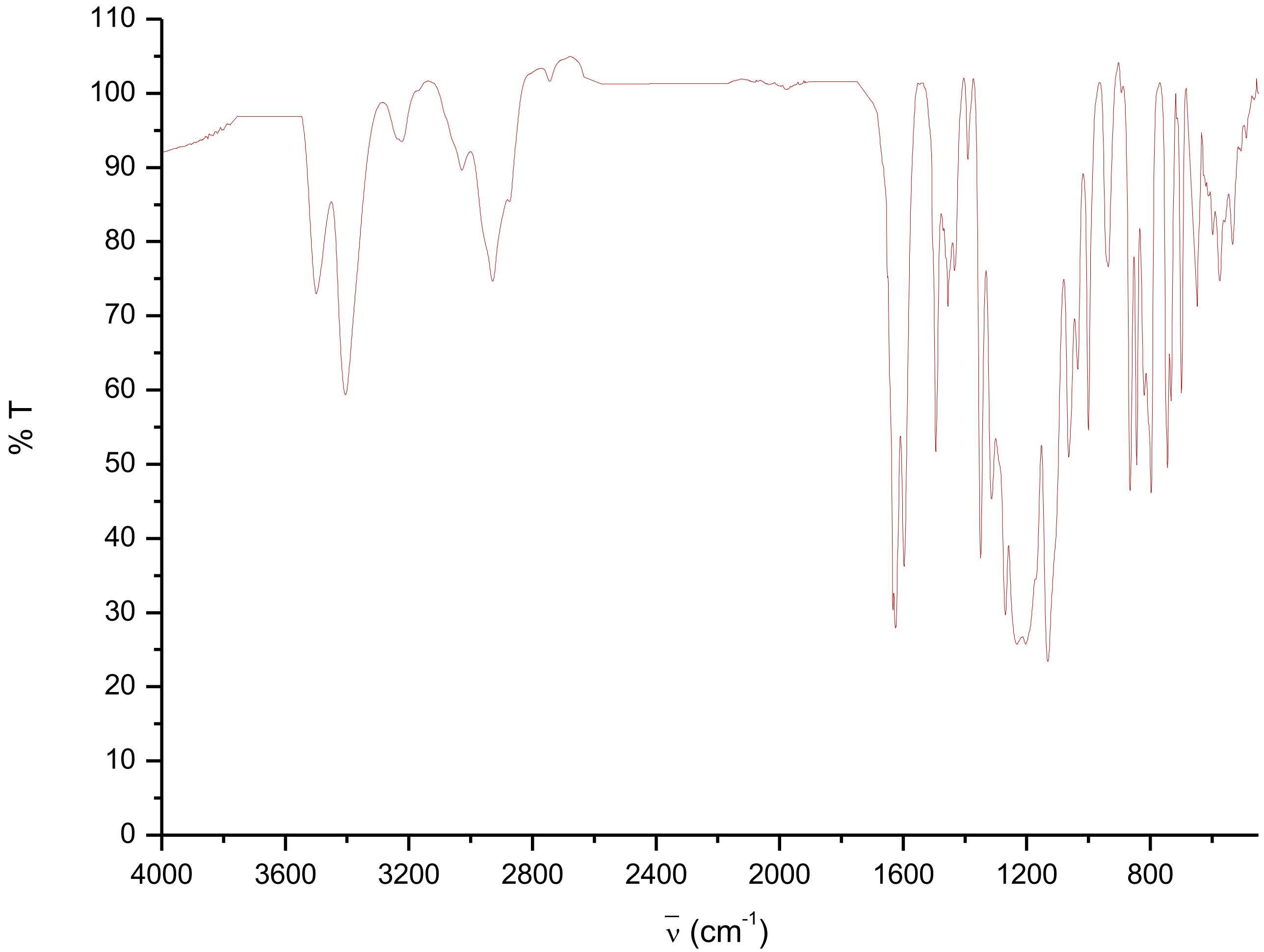

% T
$\bar{\nu}$ (cm^{-1})
NH$_2$
Br
Br
C$_4$F$_9$



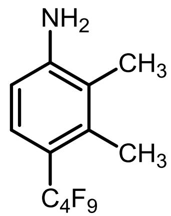
100
90
80
70
60
50
40
30
20
10
0
% T
3500
3150
2800
2450
2100
1750
1400
1050
700
$\bar{\nu}$ (cm^{-1})



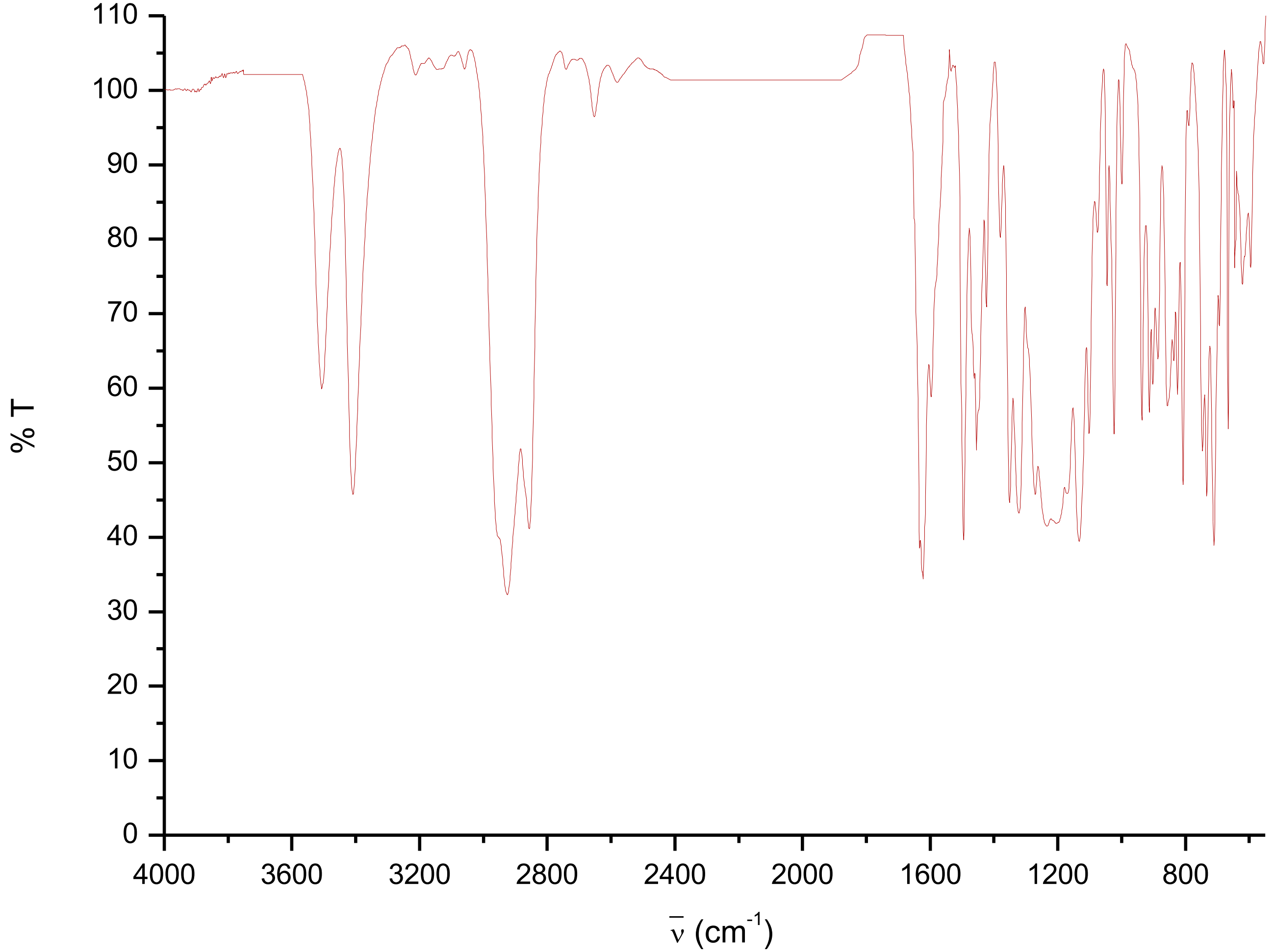
H
H
OH
N
N
NO_2
NO_2



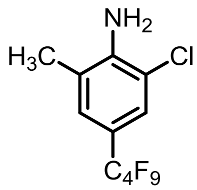
110
100
90
80
70
60
50
40
30
20
10
0
% T
4000
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)



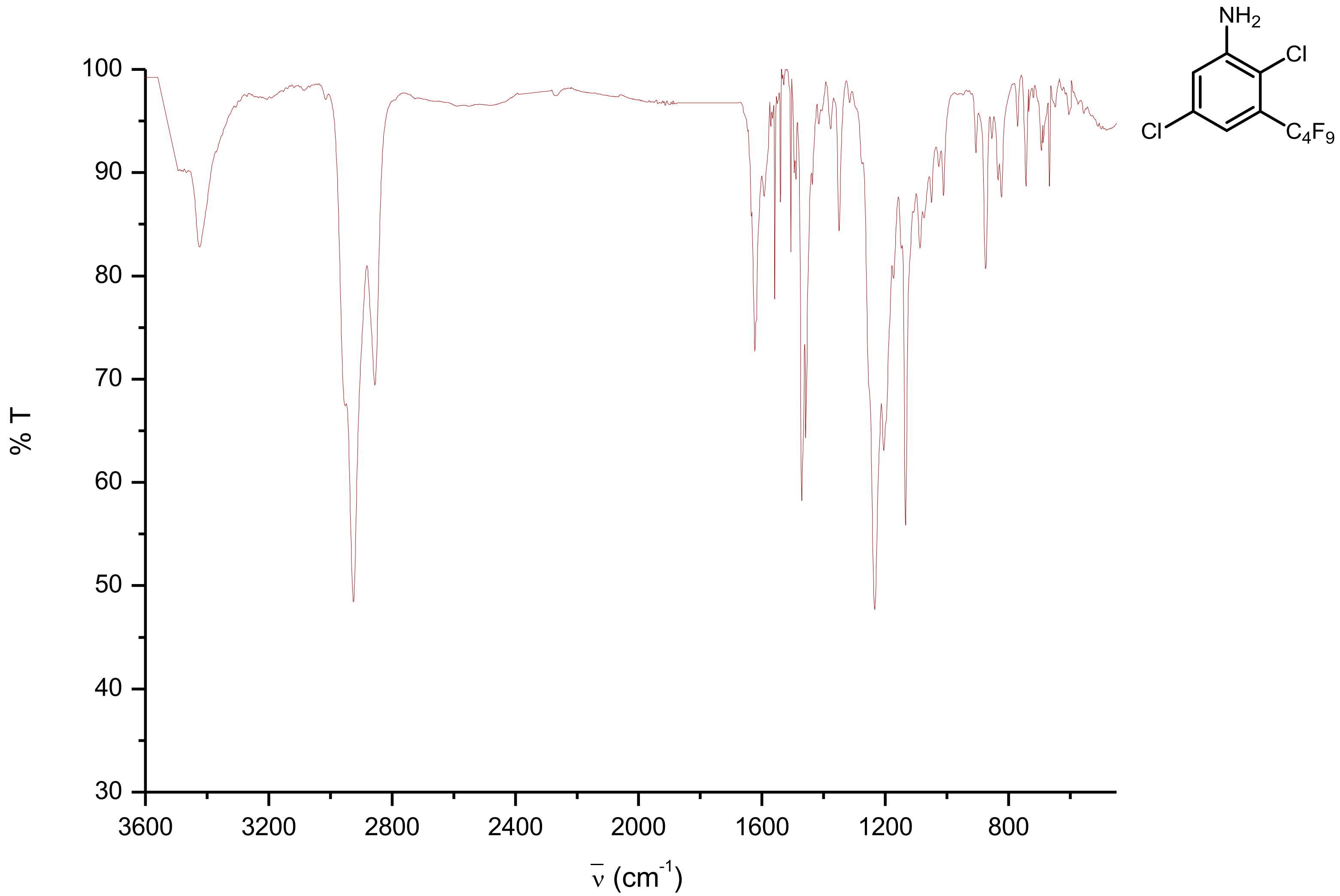
NH2
CH3
CH3
C4F9



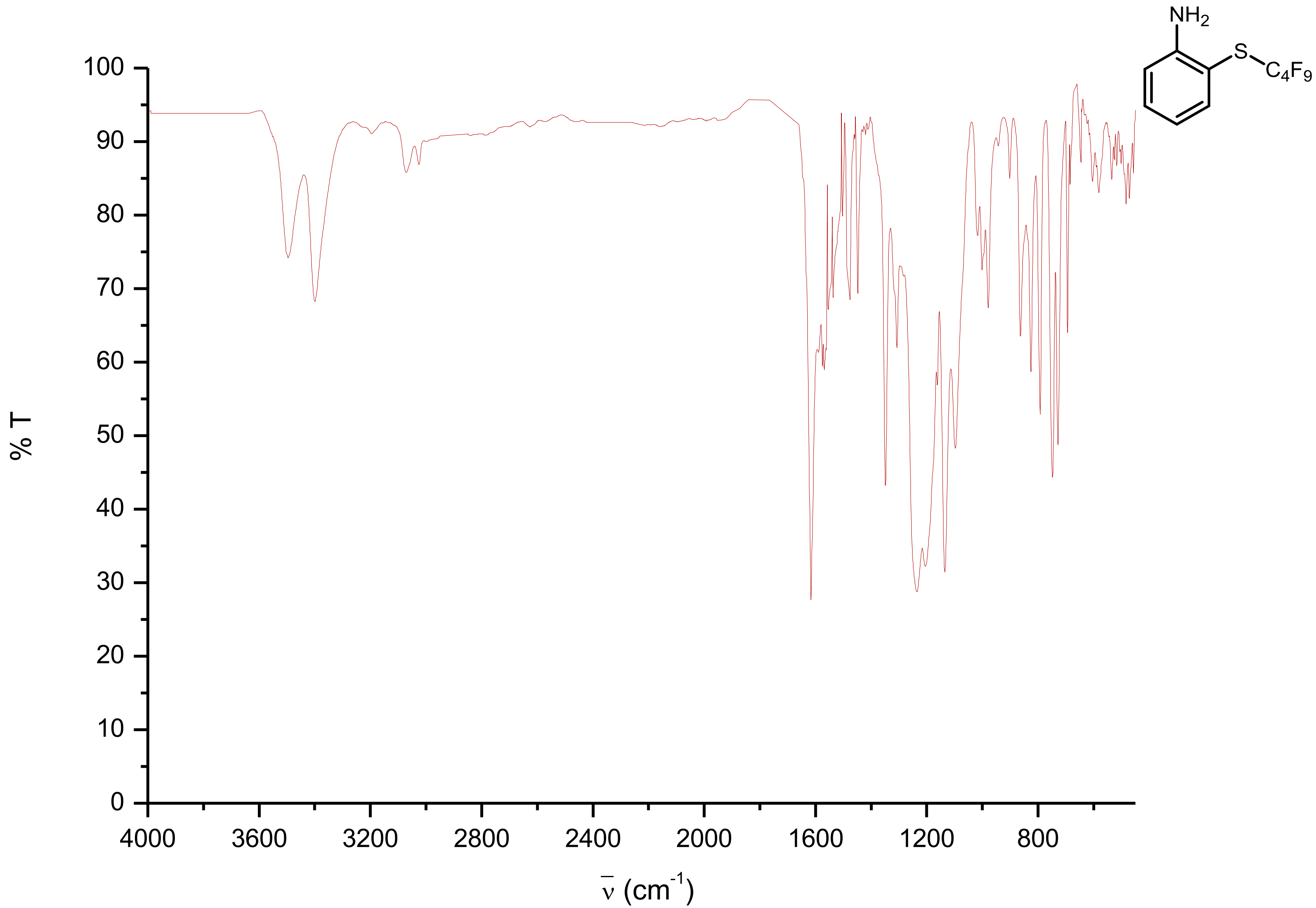
110
100
90
80
70
60
50
40
30
20
10
0
% T
4000
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)

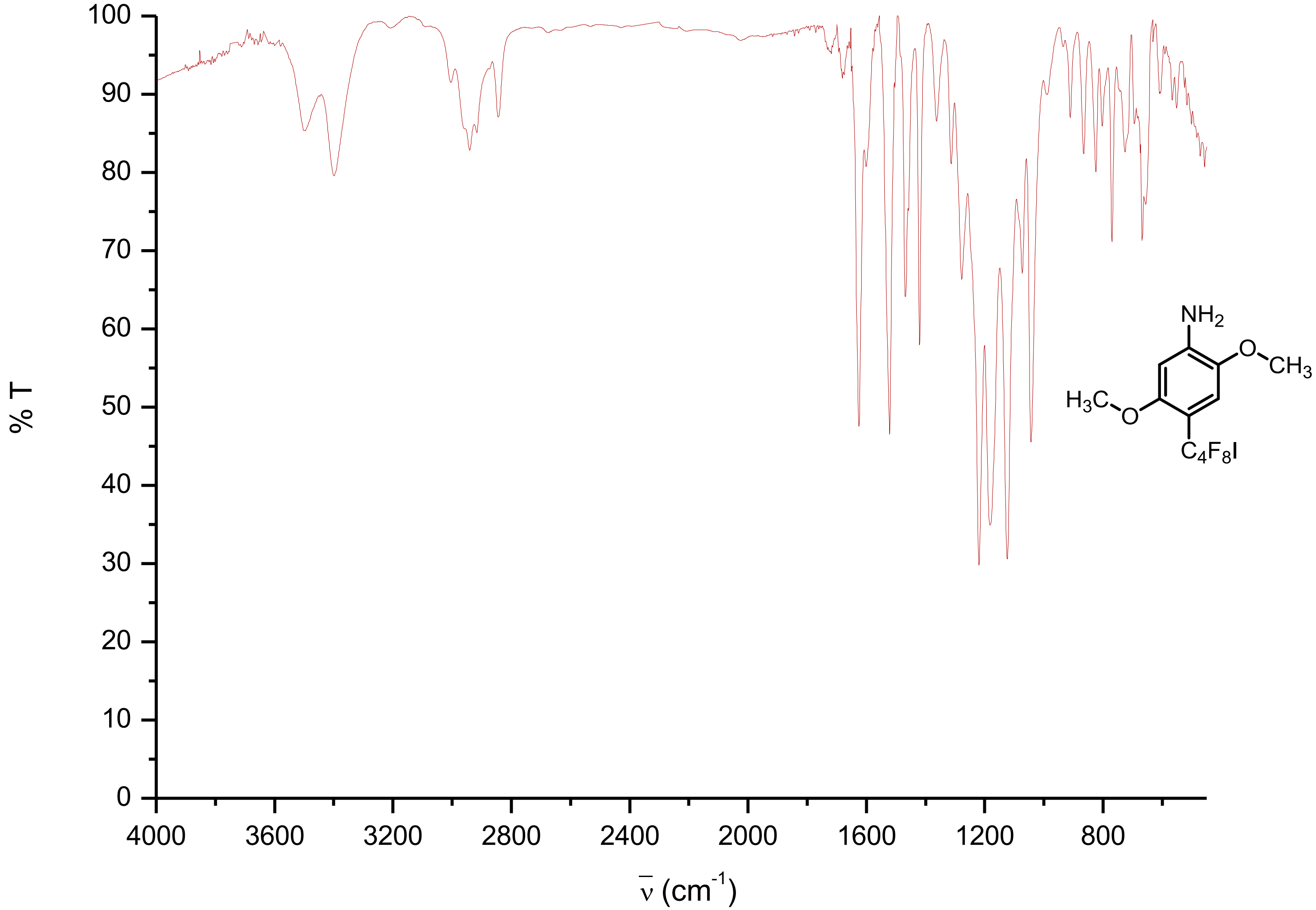


NH2
H3C
Cl
C4F9

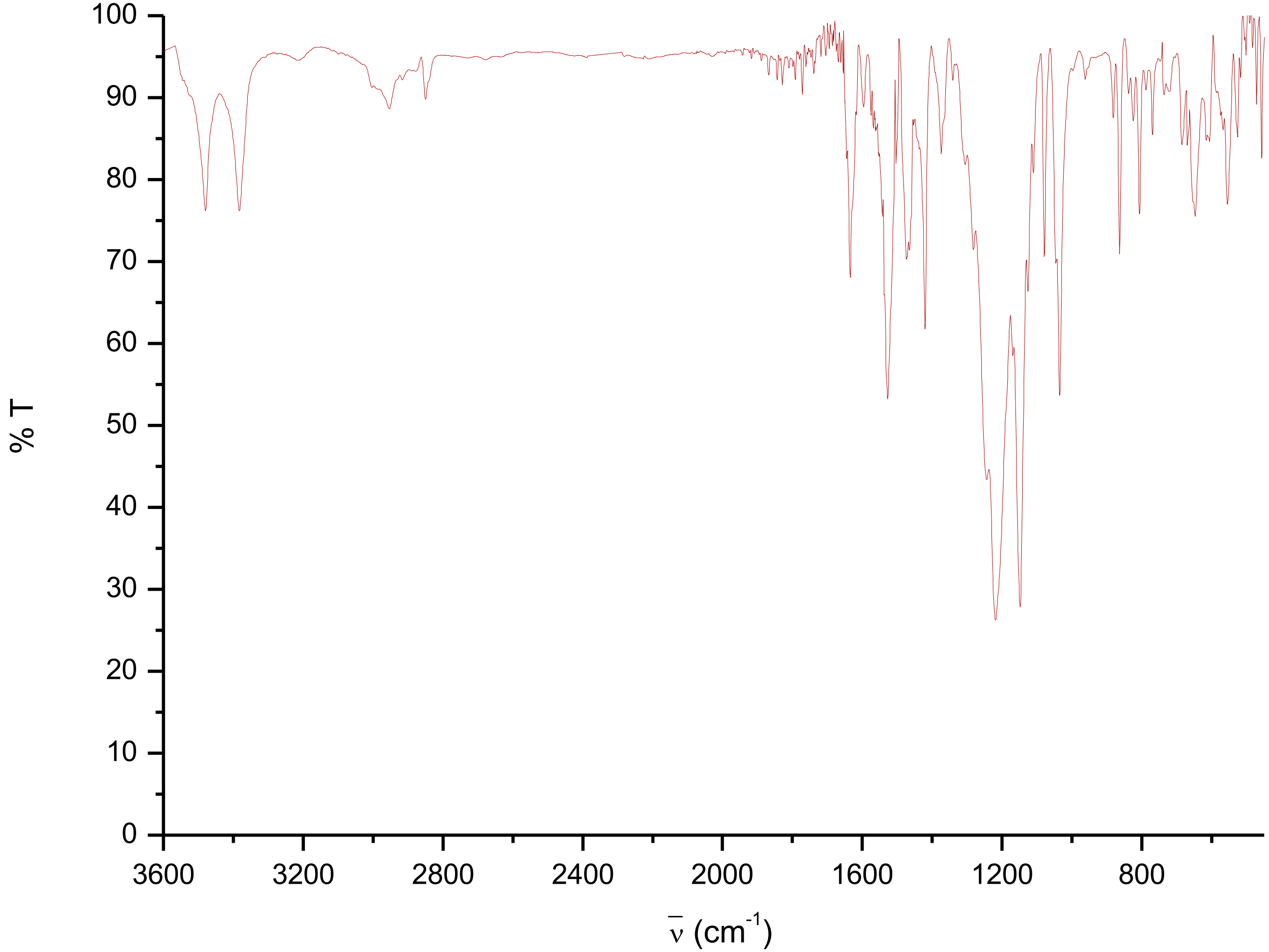


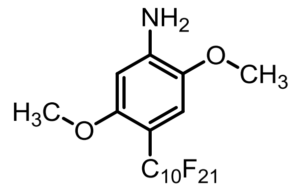
100
90
80
70
60
50
40
30
% T
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)
NH2
Cl
Cl
C4F9

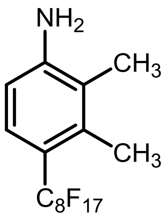

NH2
S
C4F9
% T
ν (cm-1)
100
90
80
70
60
50
40
30
20
10
0
4000
3600
3200
2800
2400
2000
1600
1200
800



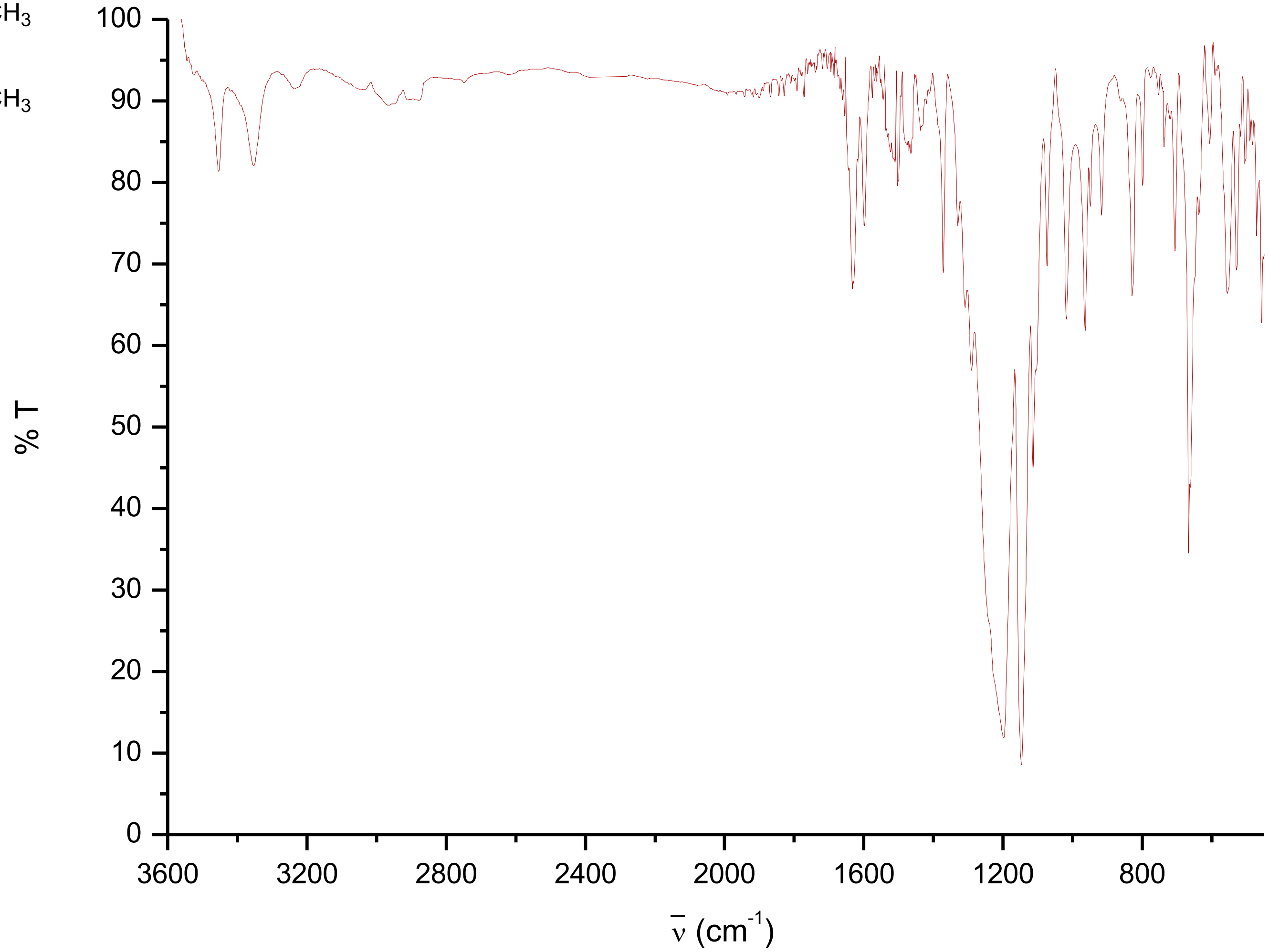
100
90
80
70
60
50
40
30
20
10
0
% T
4000
3600
3200
2800
2400
2000
1600
1200
800
$\bar{\nu}$ (cm^{-1})
NH$_2$
O
CH$_3$
H$_3$C
O
C$_4$F$_8$I


100
90
80
70
60
50
40
30
20
10
0
% T
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)

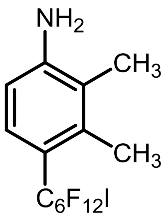

NH2
O
CH3
H3C
O
C10F21



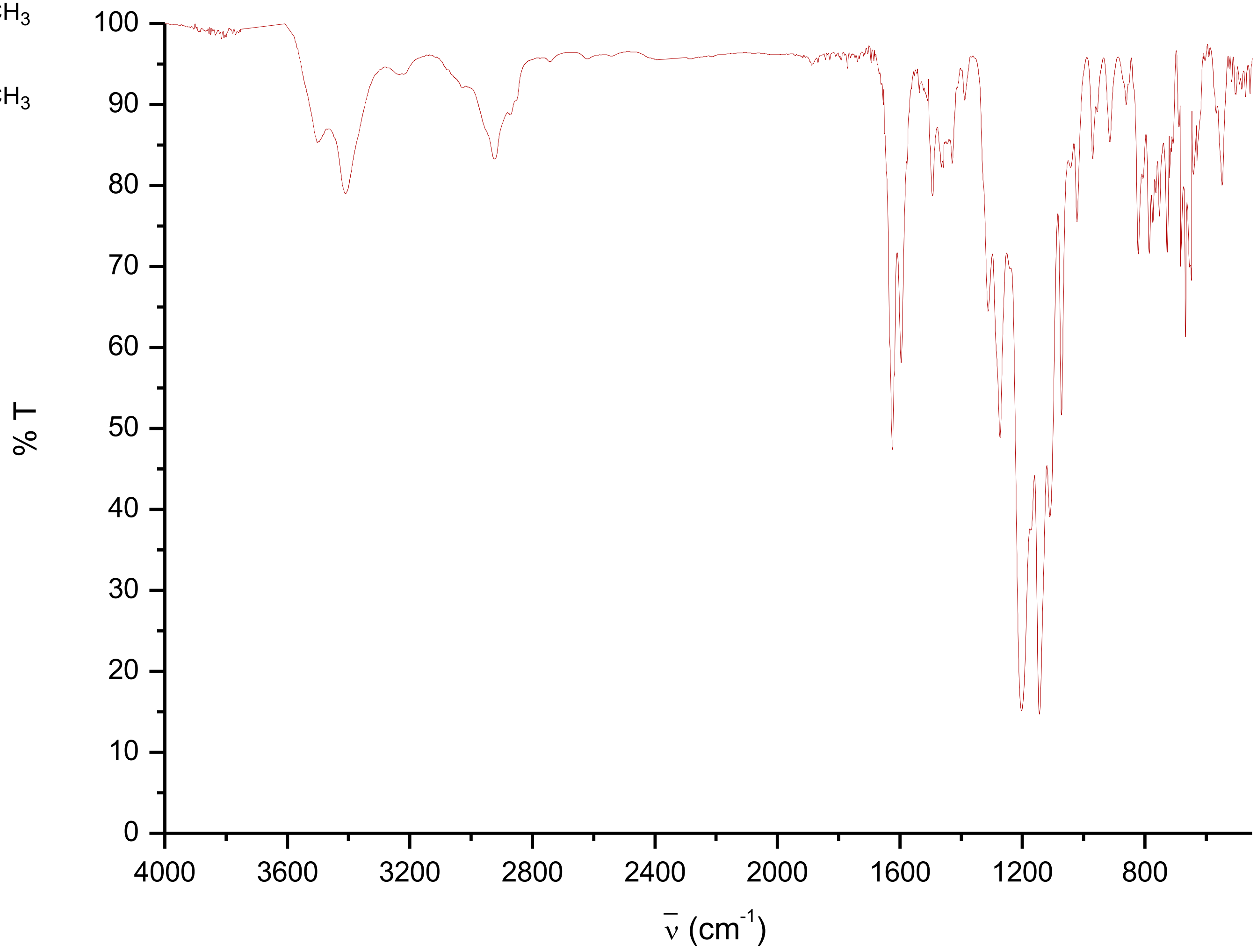
NH_2
CH_3
CH_3
C_8F_{17}



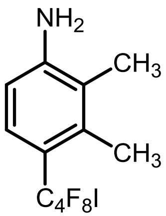
100
90
80
70
60
50
40
30
20
10
0
% T
3600
3200
2800
2400
2000
1600
1200
800
$\bar{\nu}$ (cm^{-1})

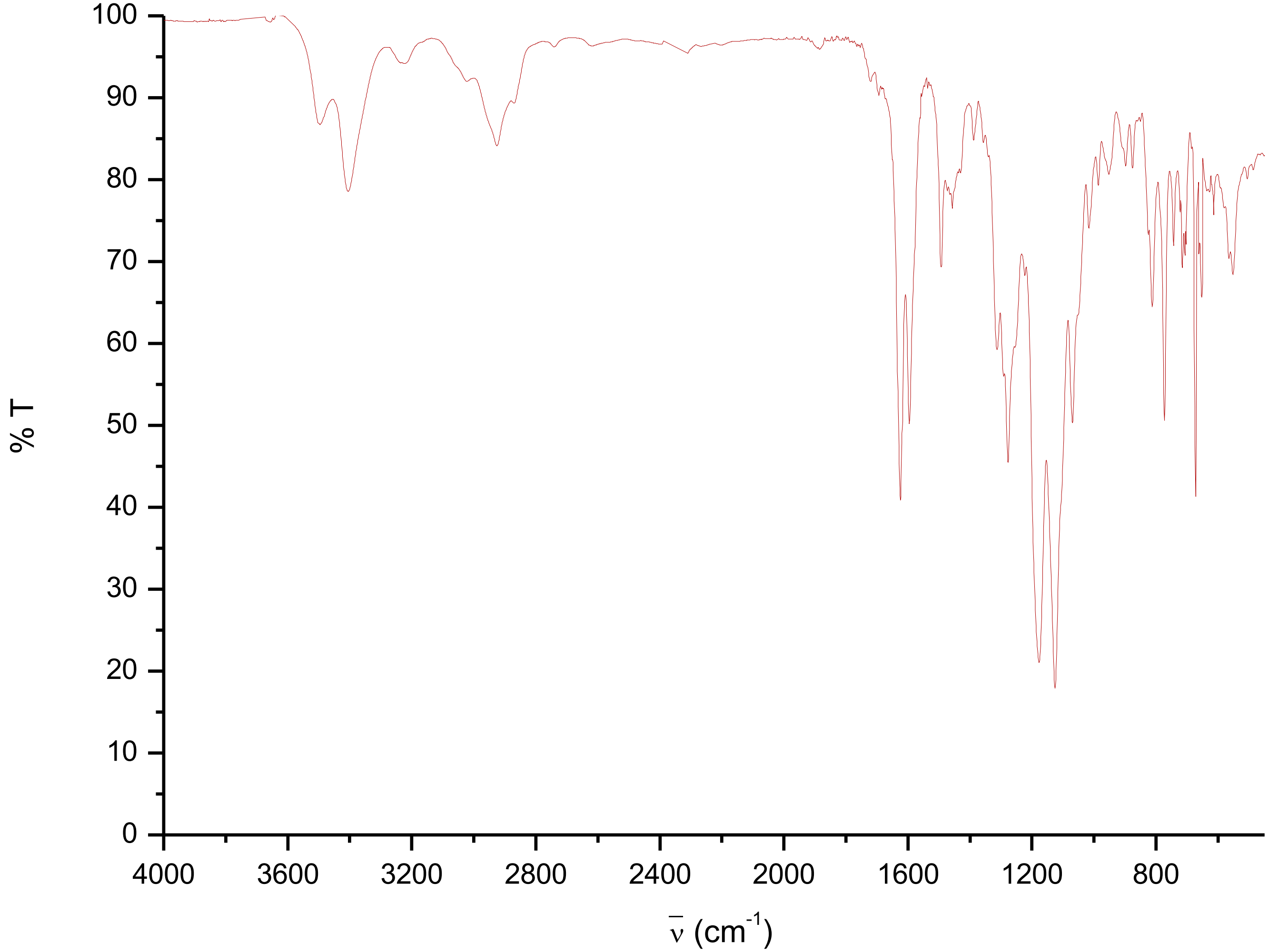


NH2
CH3
CH3
C6F12I



% T
100
90
80
70
60
50
40
30
20
10
0
4000
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)


NH2
CH3
CH3
C4F8I


% T
100
90
80
70
60
50
40
30
20
10
0
4000
3600
3200
2800
2400
2000
1600
1200
800
ν̄ (cm-1)