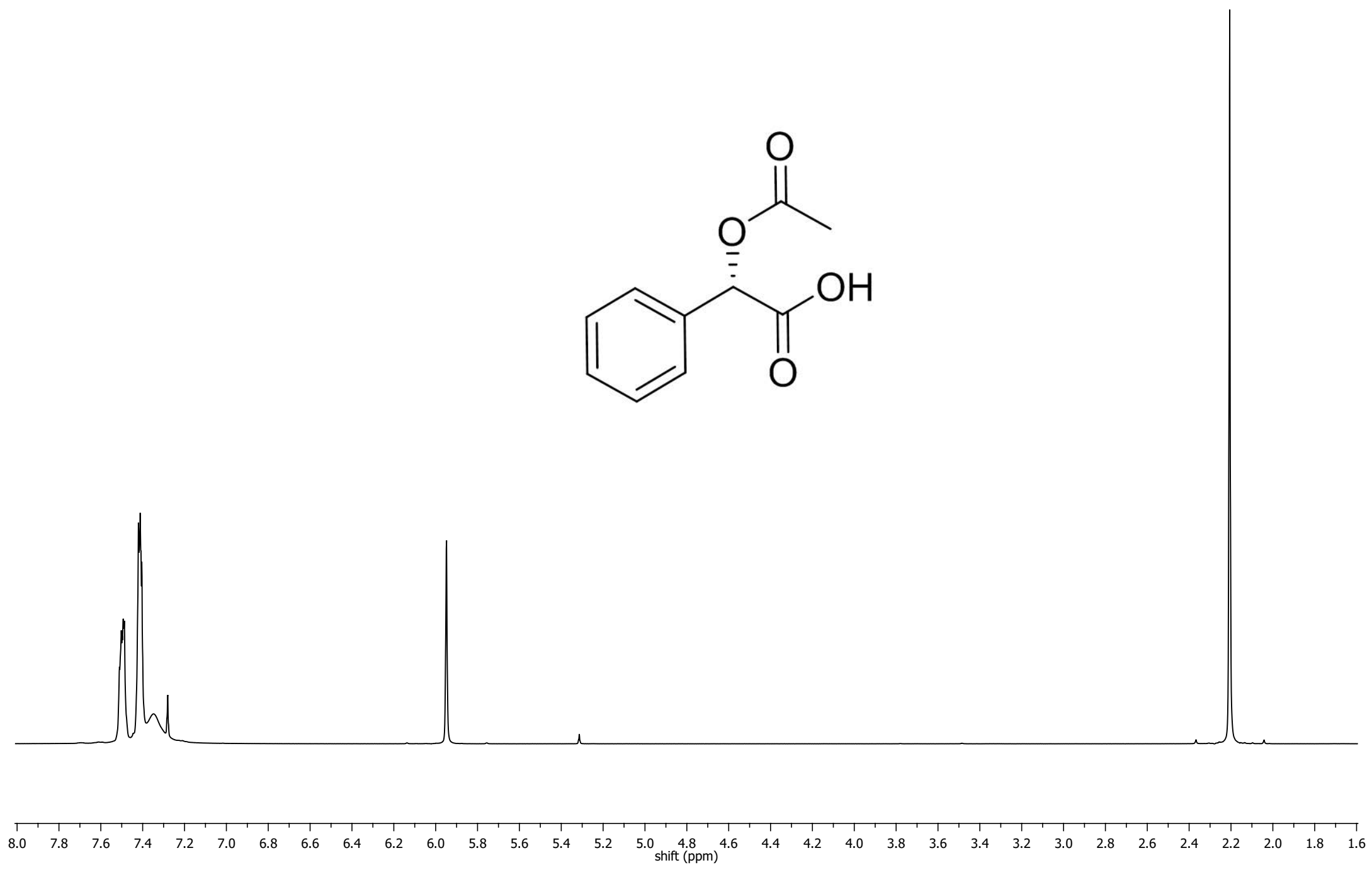
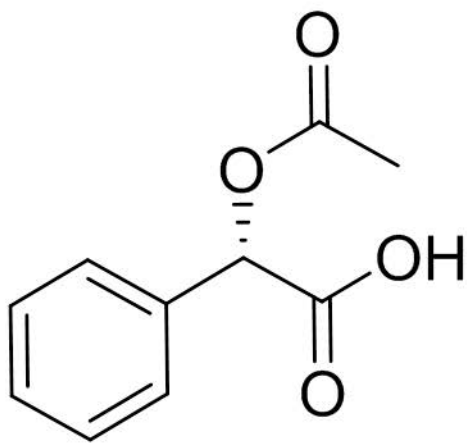
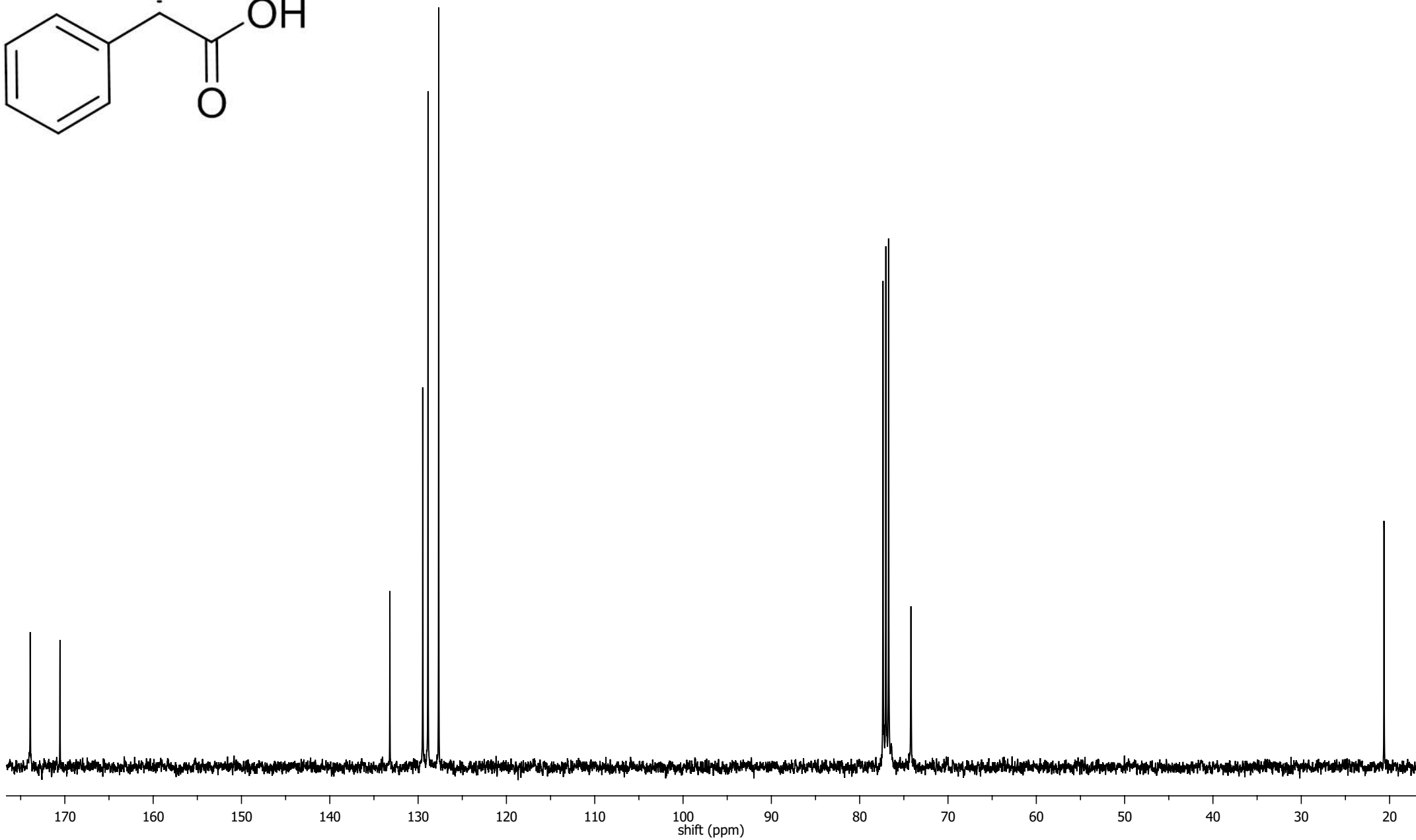
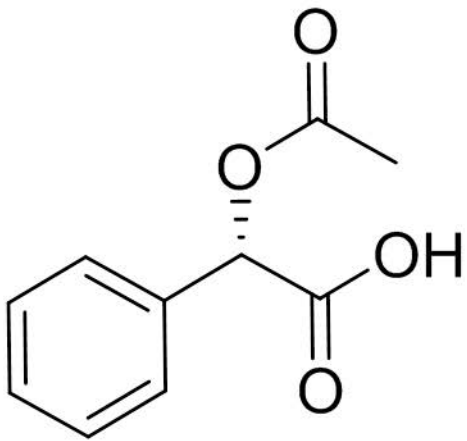
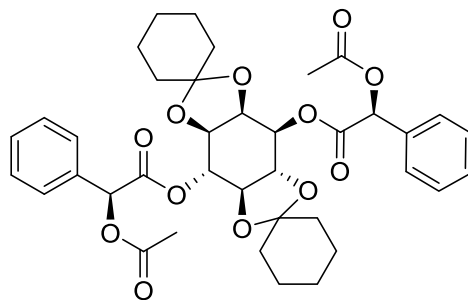


***S*-Acetyl Mandelic Acid, 8a.**

HRMS (EI+)  $m/z$  found  $[M]^{++} = 194.0581$ ,  $C_{10}H_9O_4$  requires 194.0579.

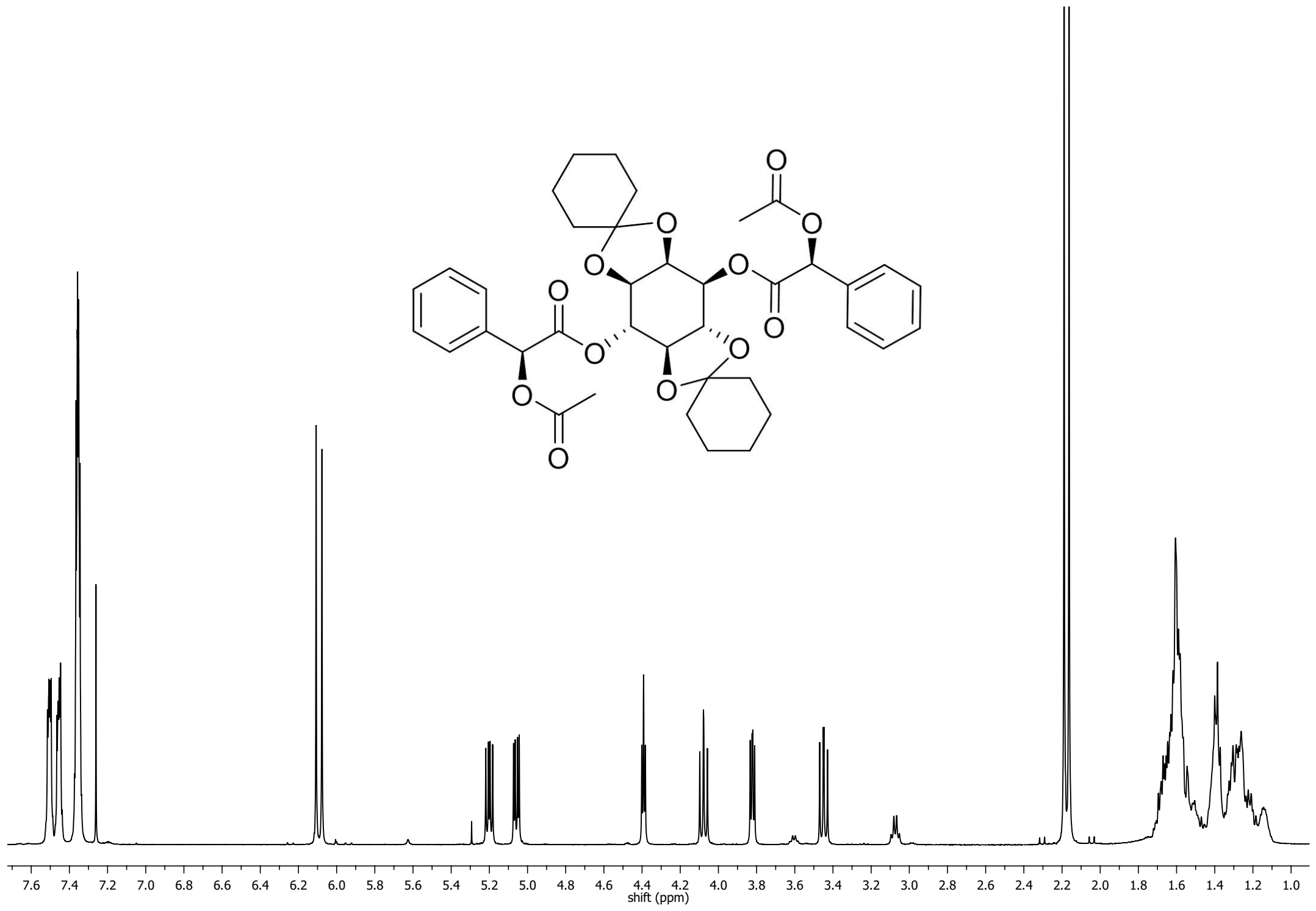
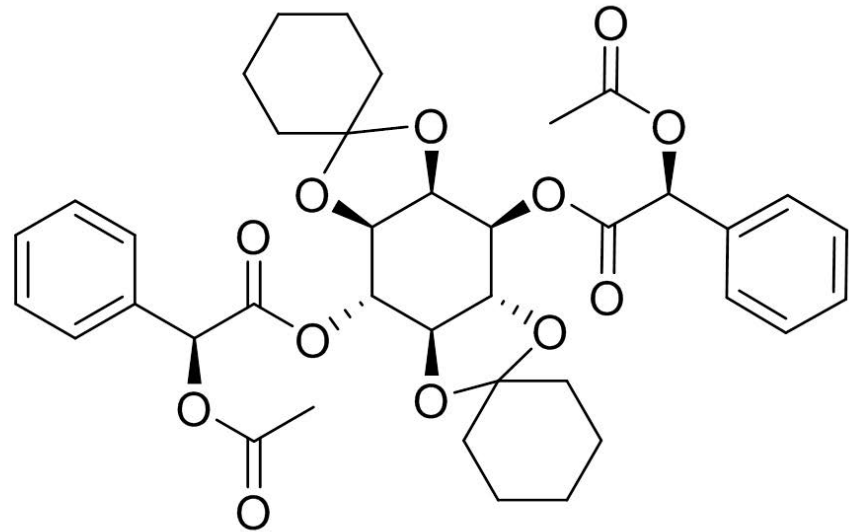


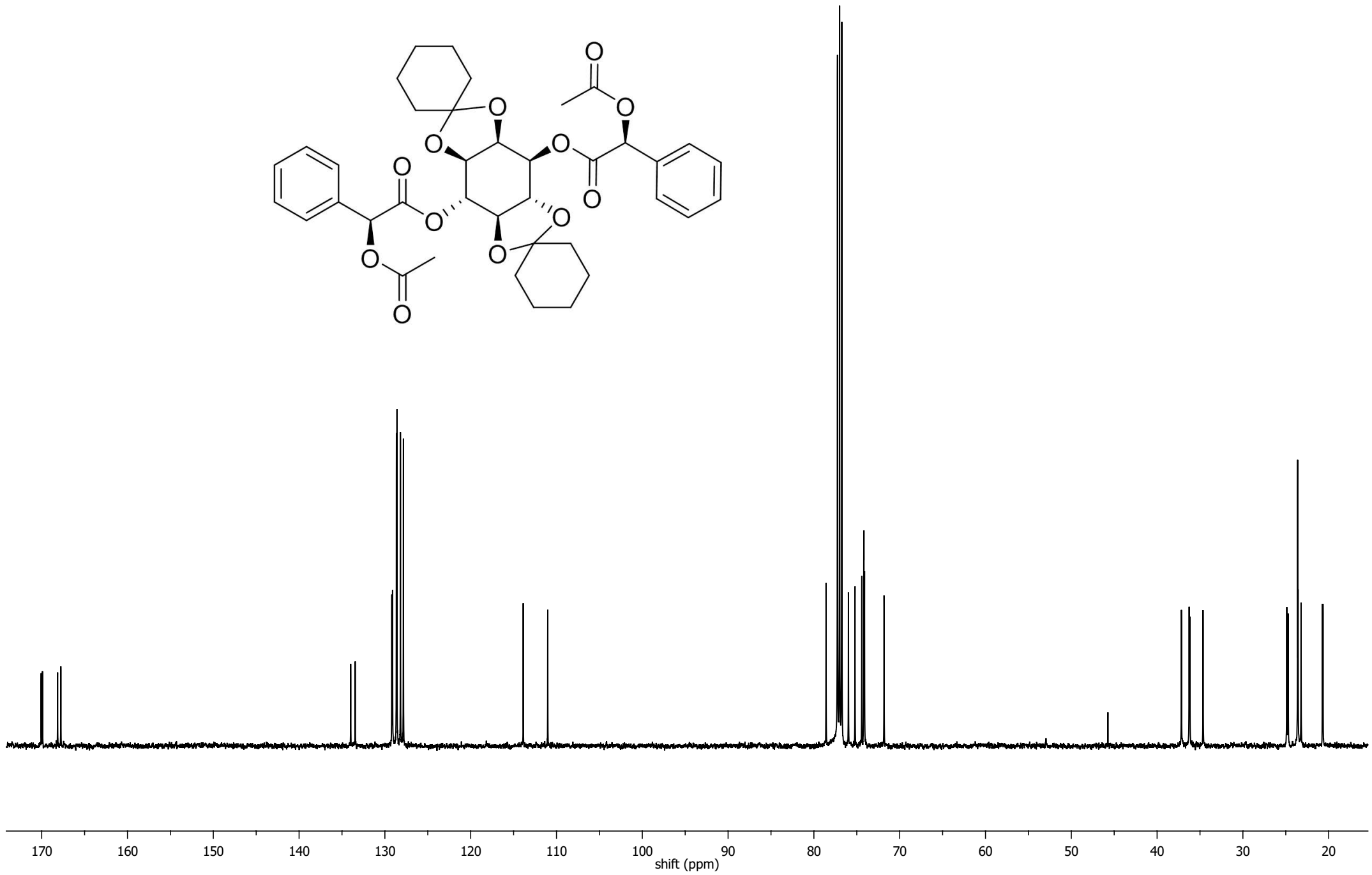
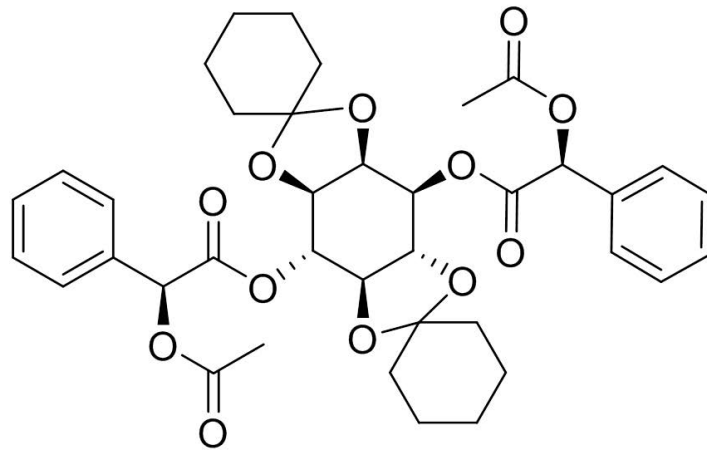


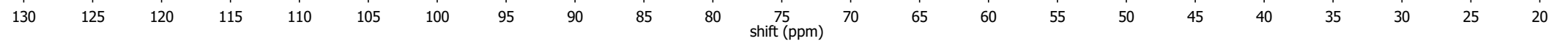
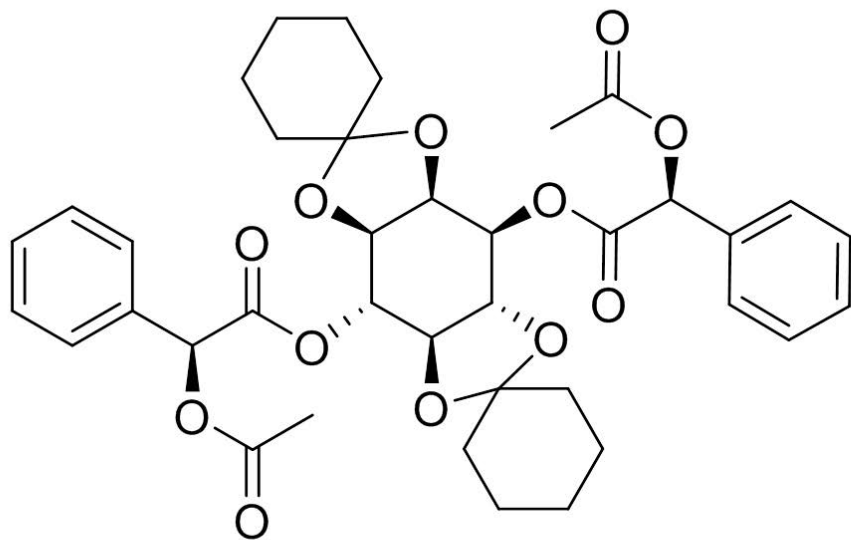
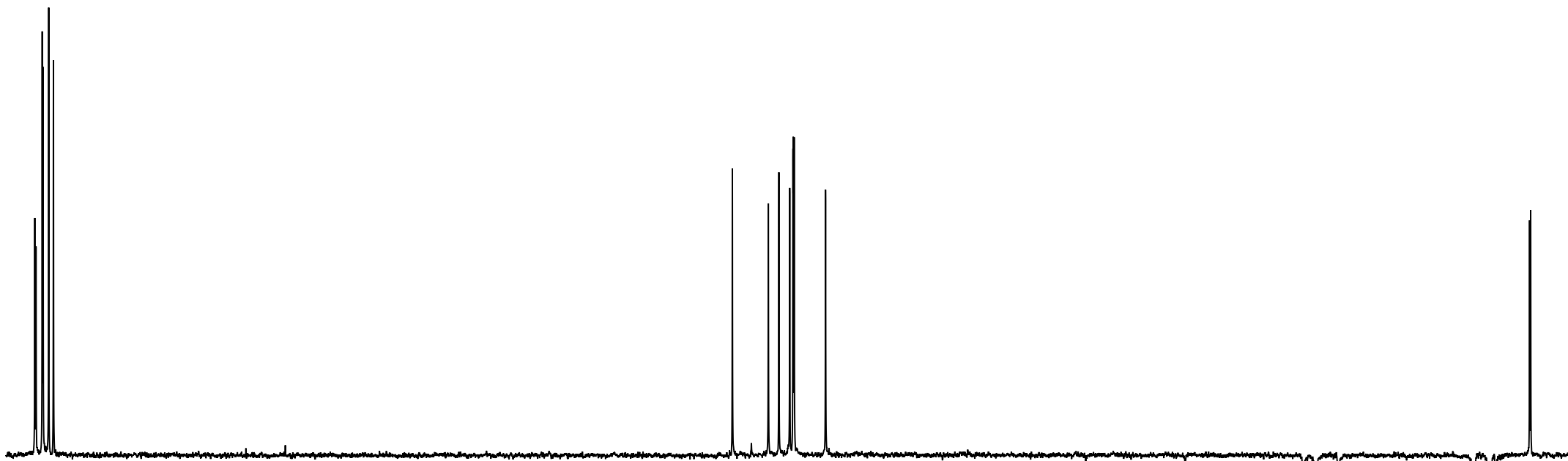


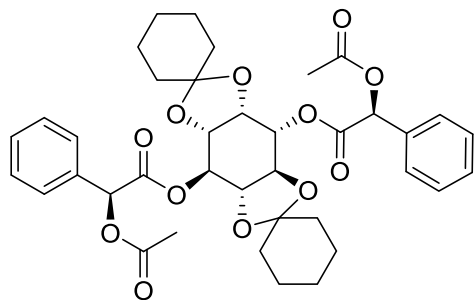
**1,4-*O*-Di(*S*-acetylmandelyl)-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 6.**

HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 693.2911$ ,  $C_{38}H_{45}O_{12}^+$  requires 693.2900.





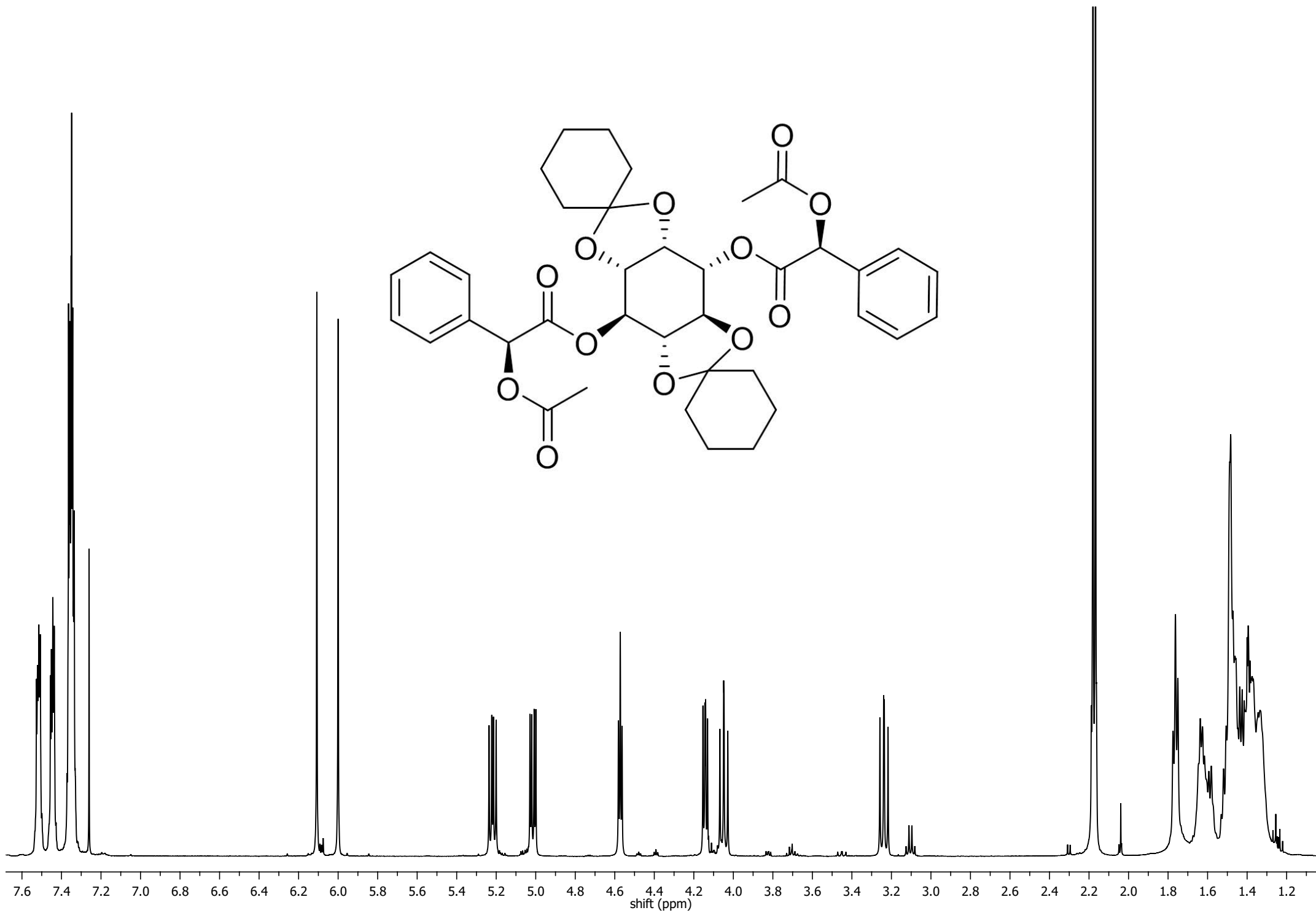
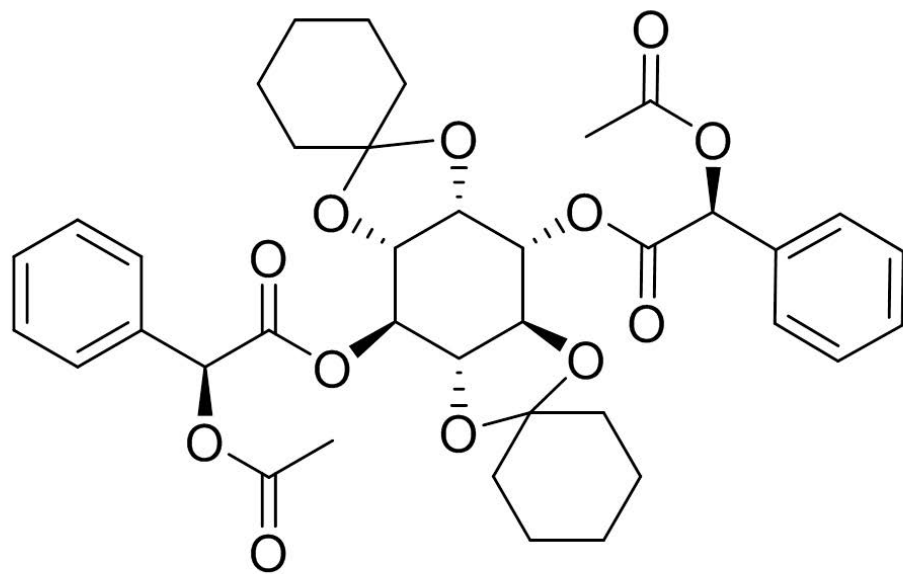


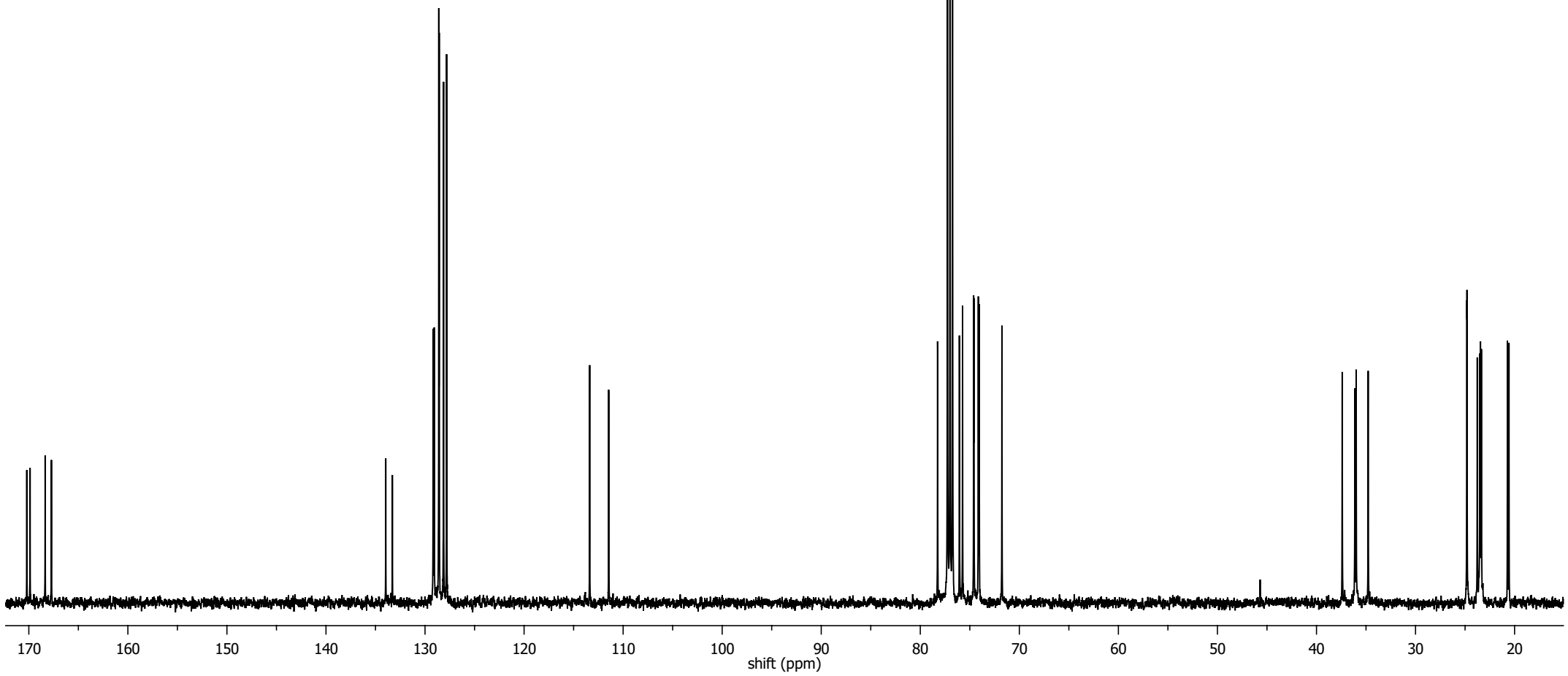
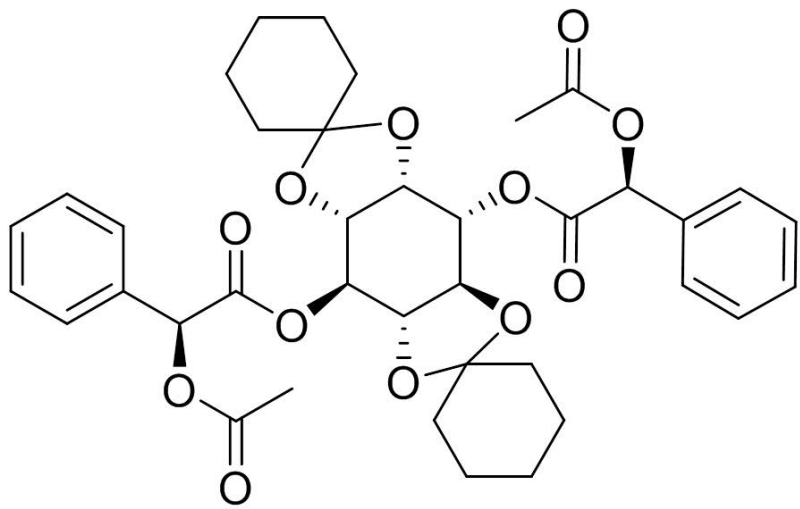


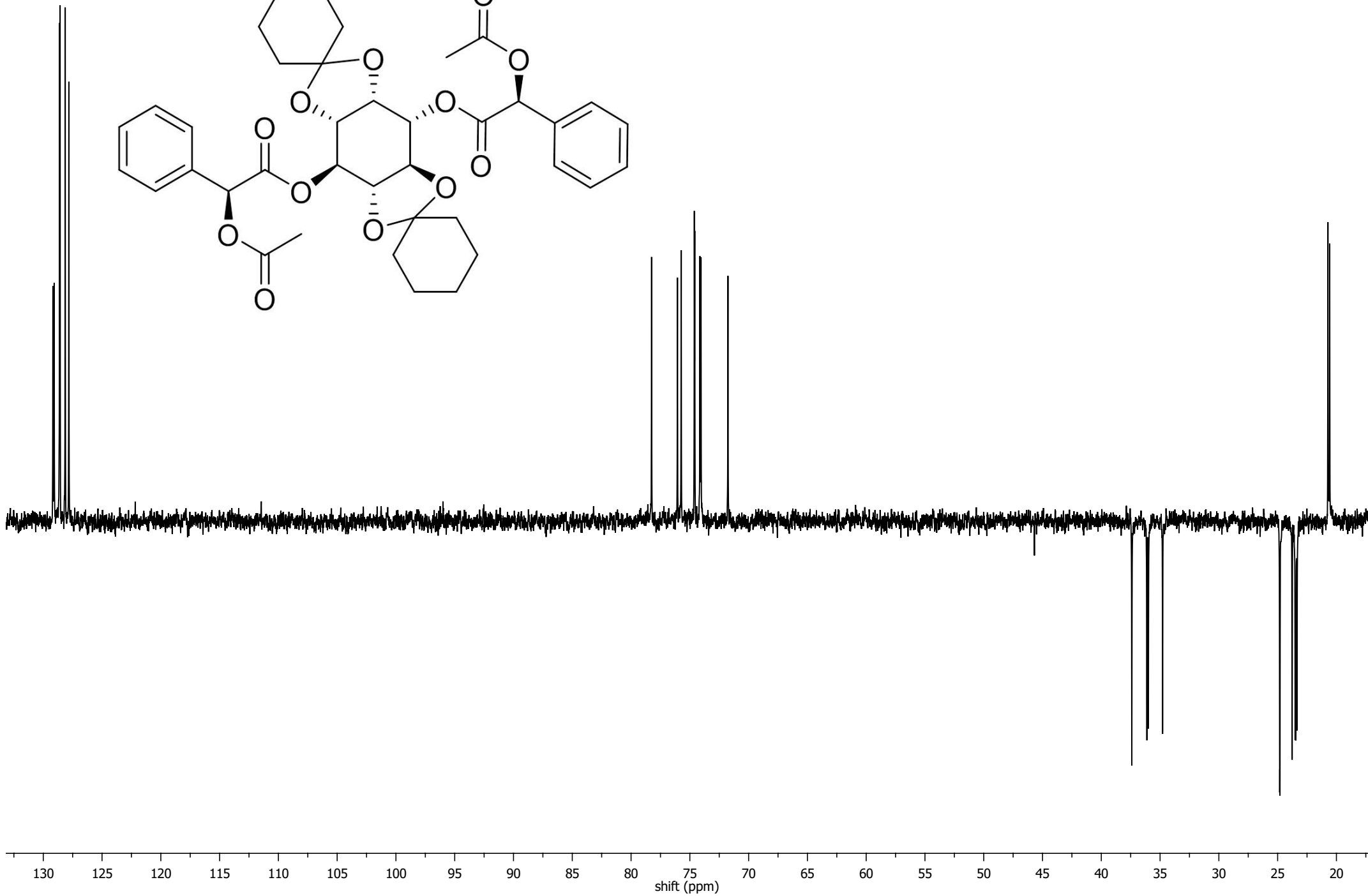
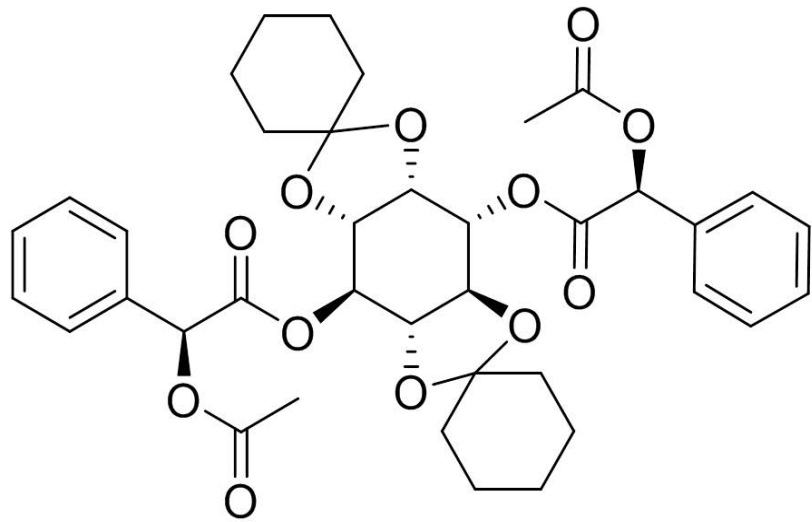
**3,6-*O*-Di(*S*-acetylmandelyl)-(1,2)(4,5)-*O*-dicyclohexylidene-*myo*-inositol, 7.**

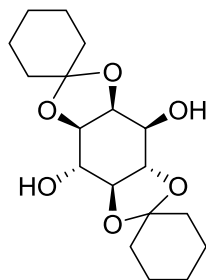
HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 693.2911$ ,  $C_{38}H_{45}O_{12}^+$  requires 693.2927.





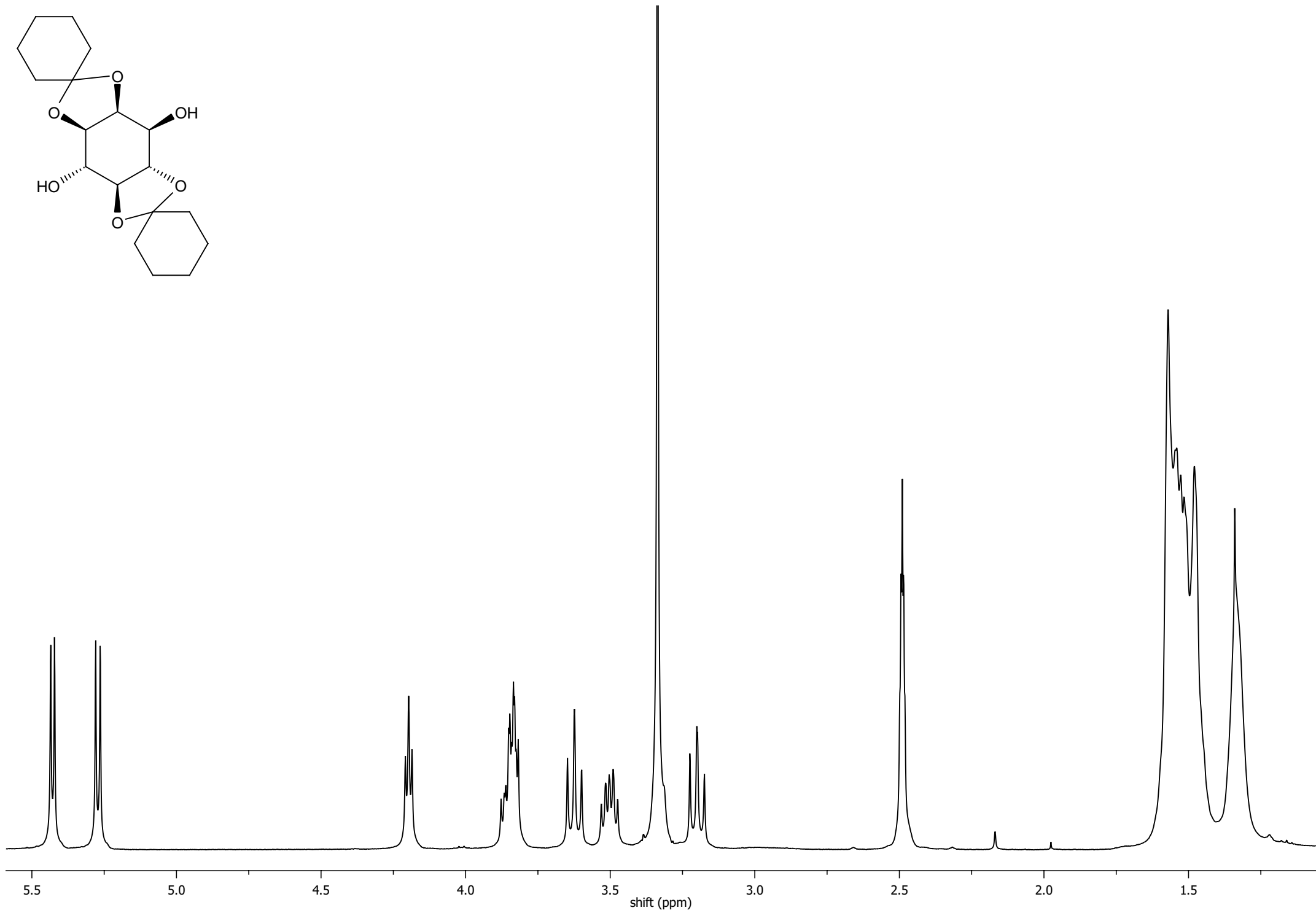
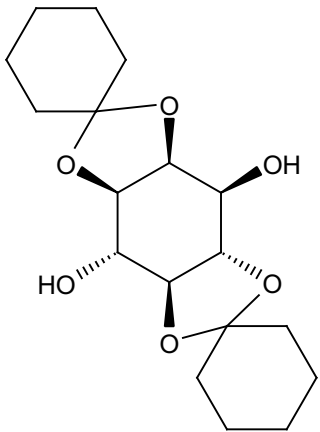


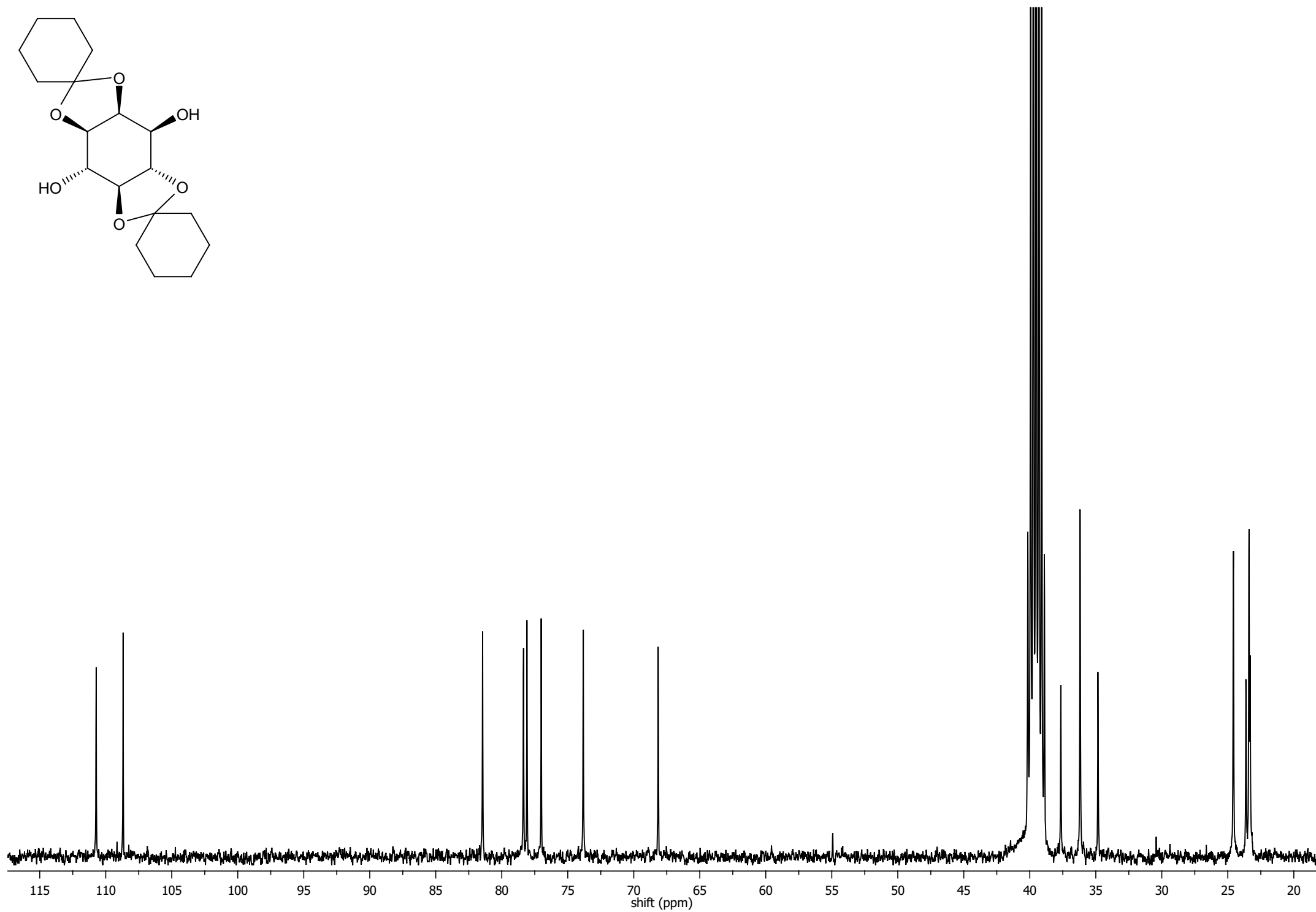
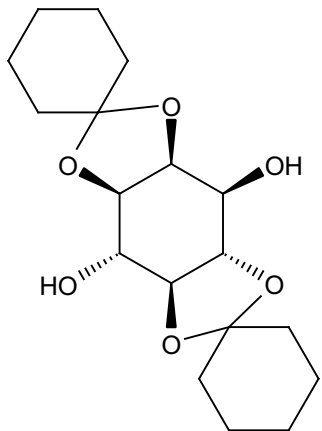


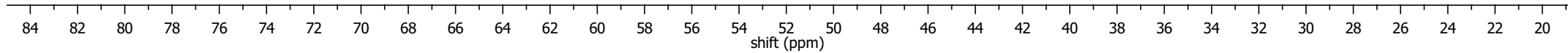
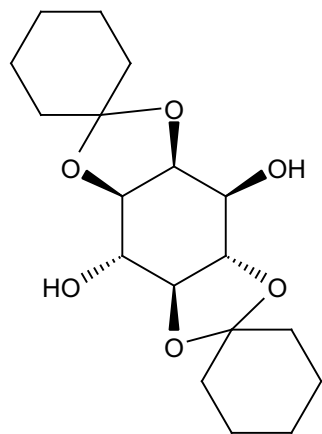
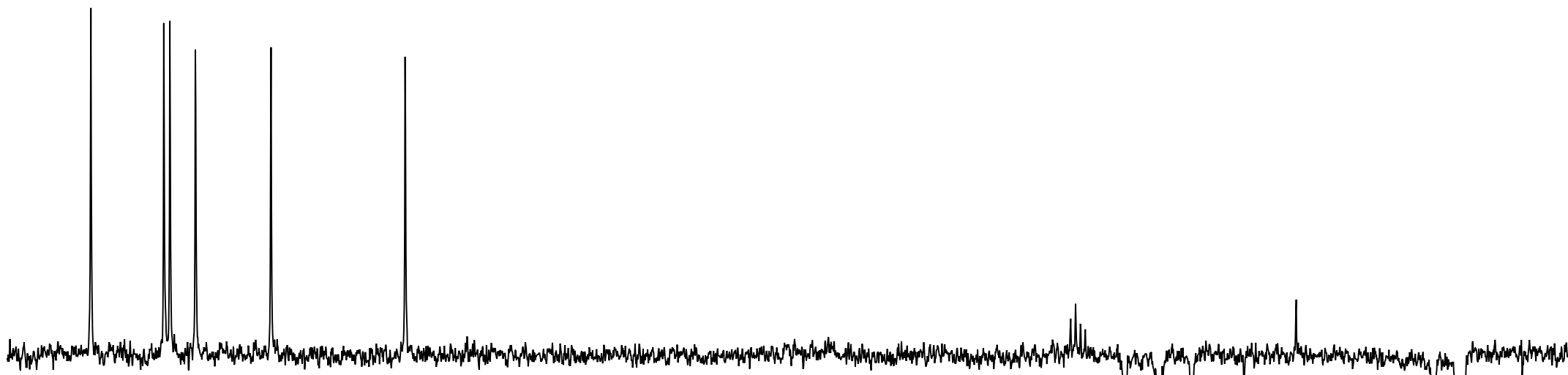


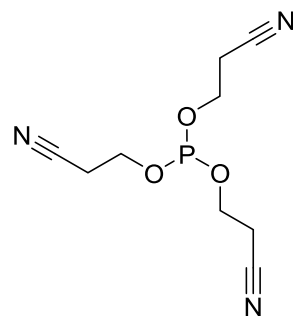
**(+)-(2,3)(5,6)-O-Dicyclohexylidene-*myo*-inositol, D-5 from 6.**

HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 341.1956$ ,  $C_{18}H_{29}O_6^+$  requires 341.1964.





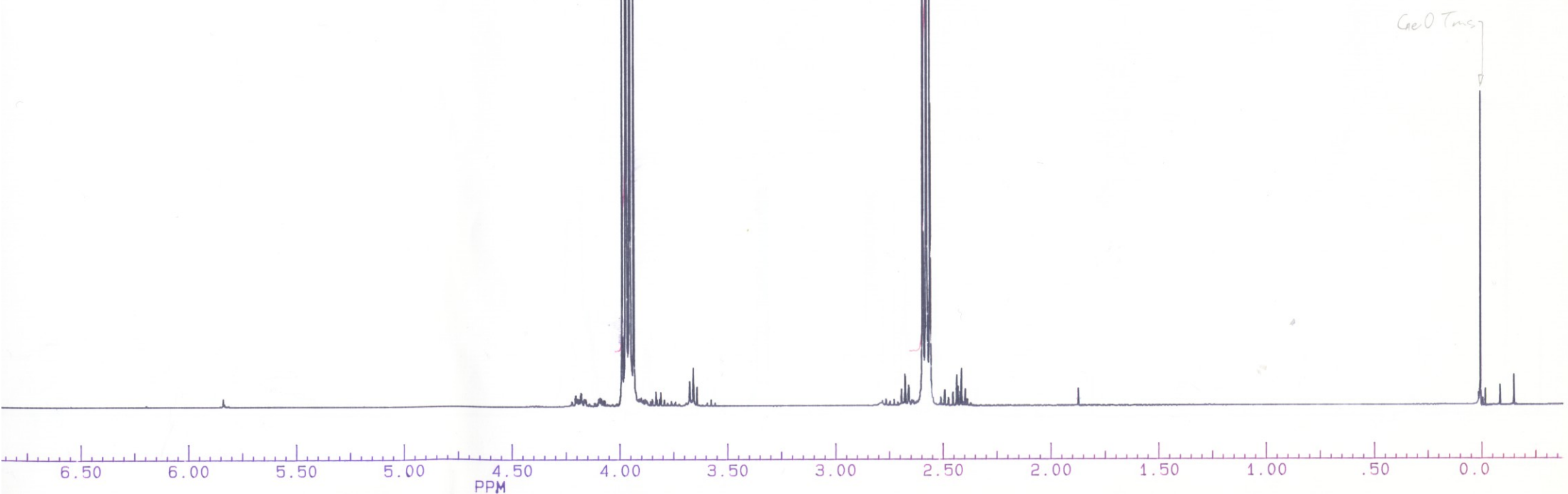
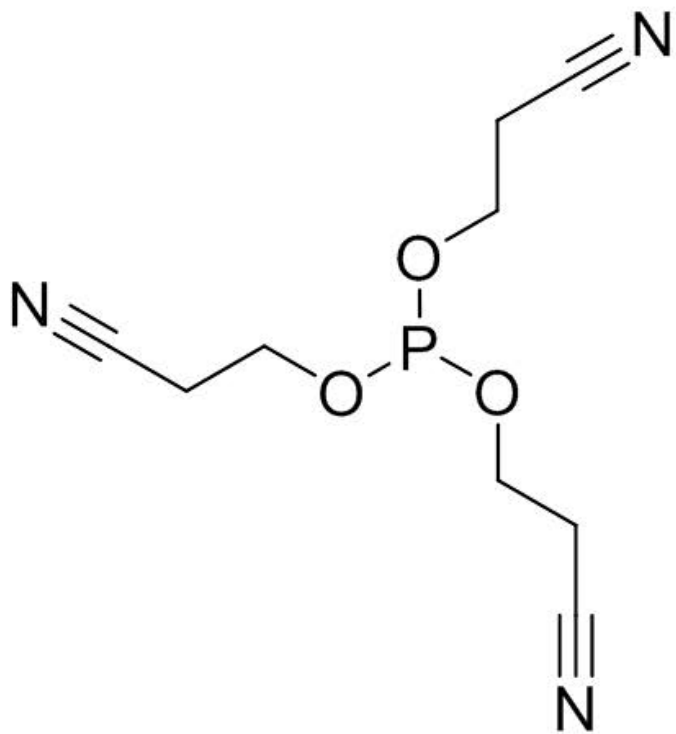


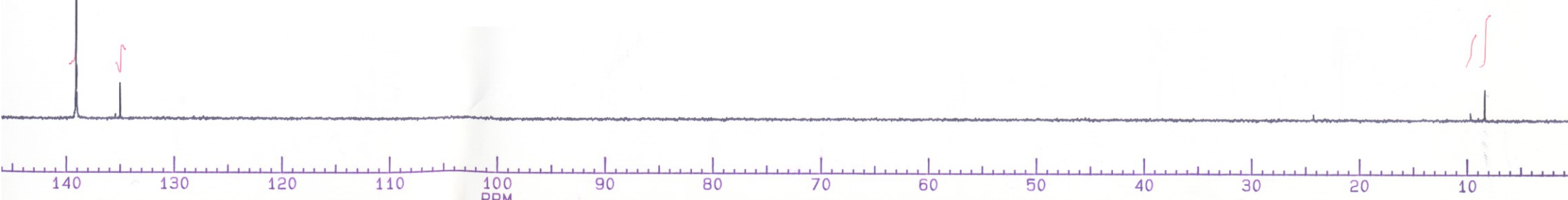
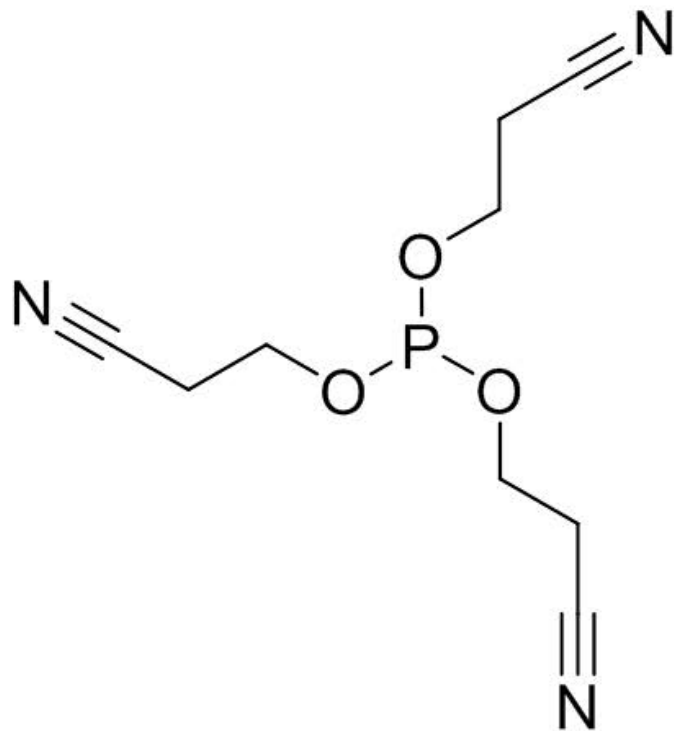


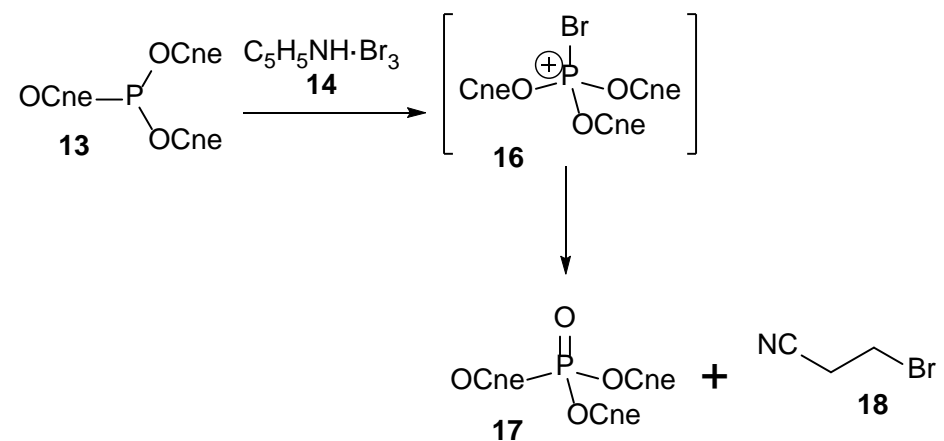
**Tricyanoethyl phosphite, 13.**

HRMS (ESI+)  $m/z$  found  $[M+Na]^+ = 264.0513$ ,  $C_9H_{12}O_3N_3PNa$  requires 264.0514.

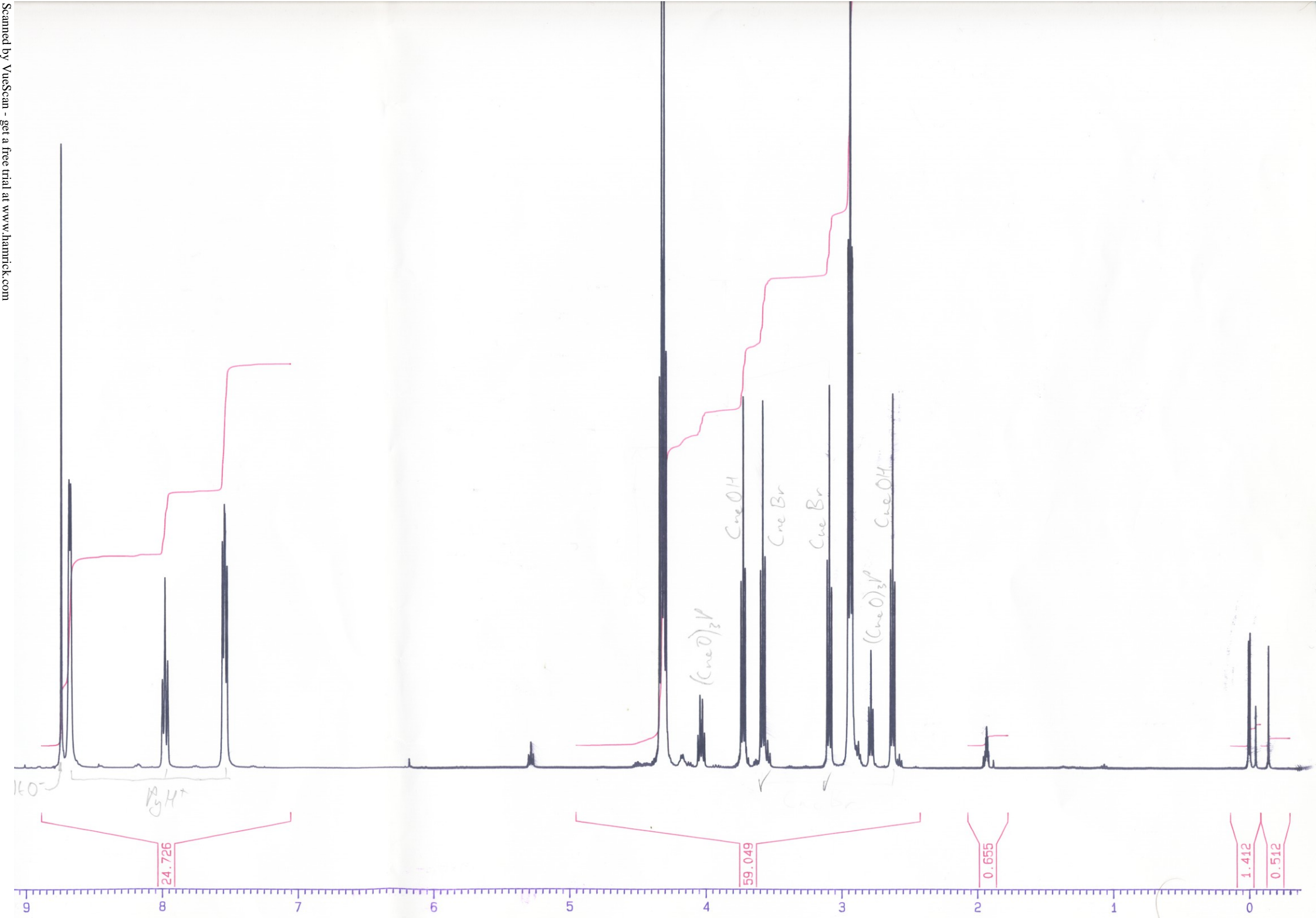








**$^1\text{H}$  NMR and  $^{31}\text{P}$  NMR spectra relating to the reaction between tricyanoethyl phosphite, cyanoethanol and pyridinium bromide perbromide.**



$H^+$   
 $H^+$

24.726

$(C=O)_2O$

$C=C-OH$

$C=C-Br$

$C=C-Br$

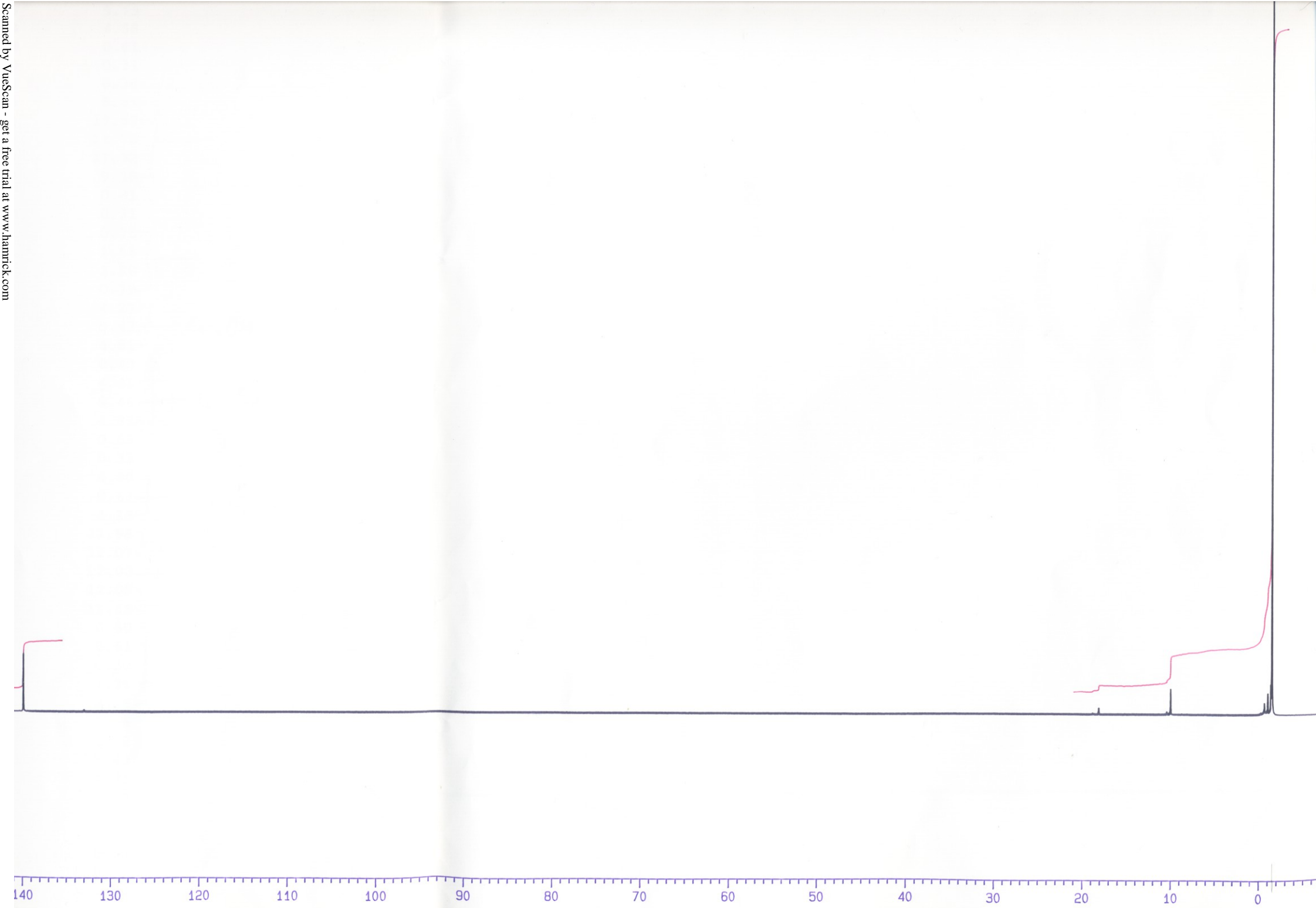
$(C=O)_2O$

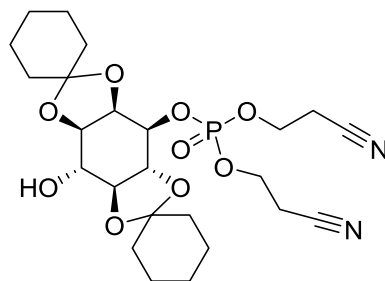
$C=C-OH$

0.655

1.412

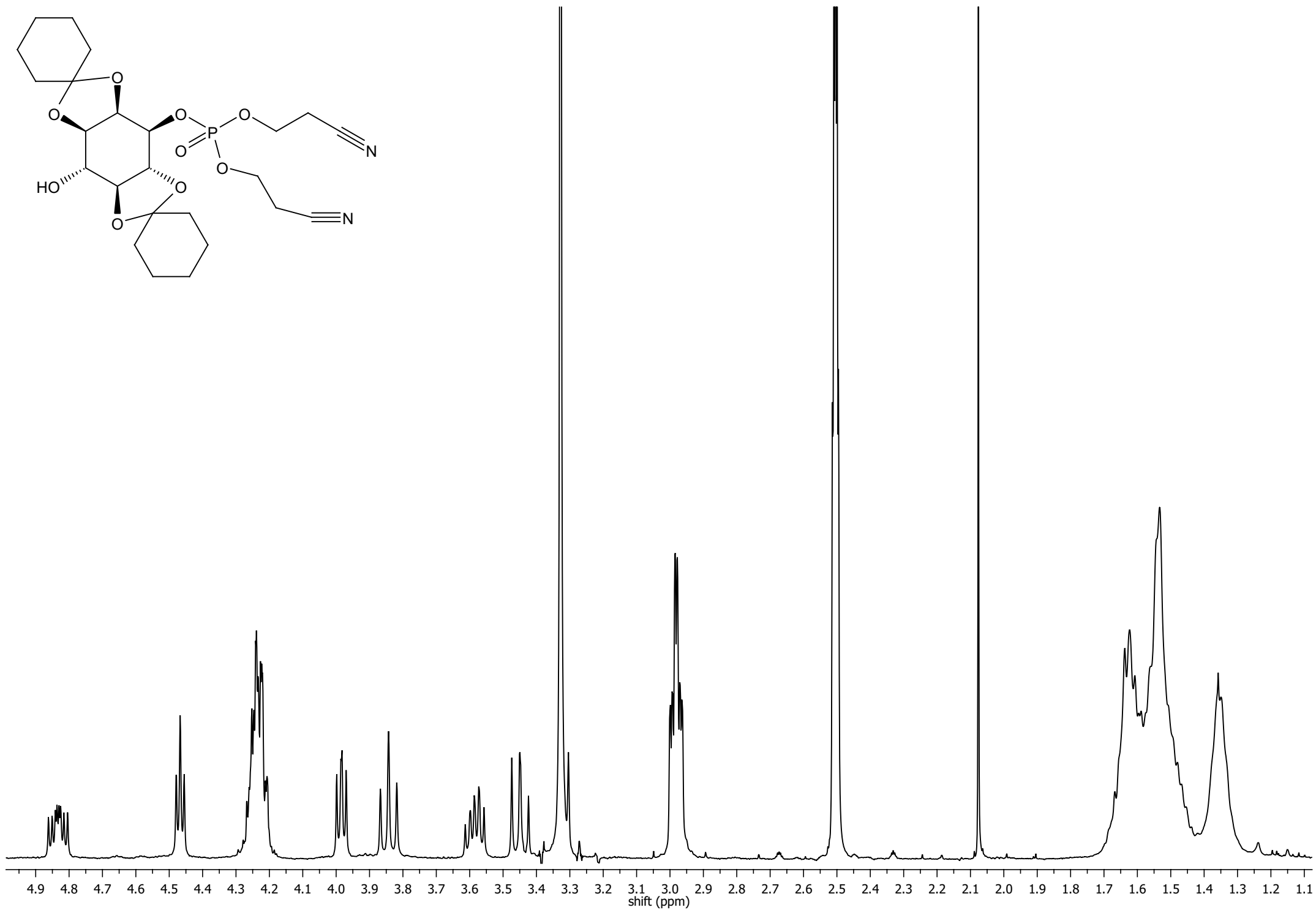
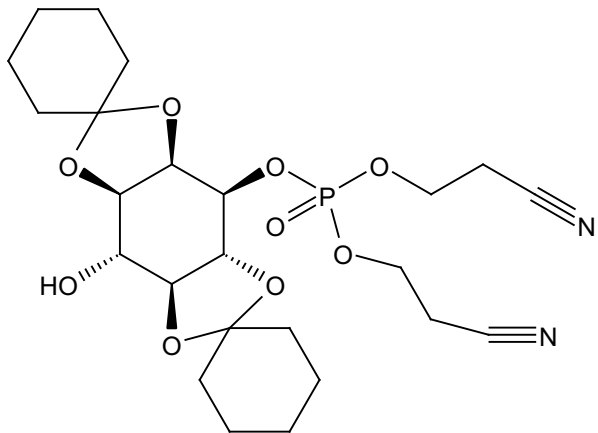
0.512

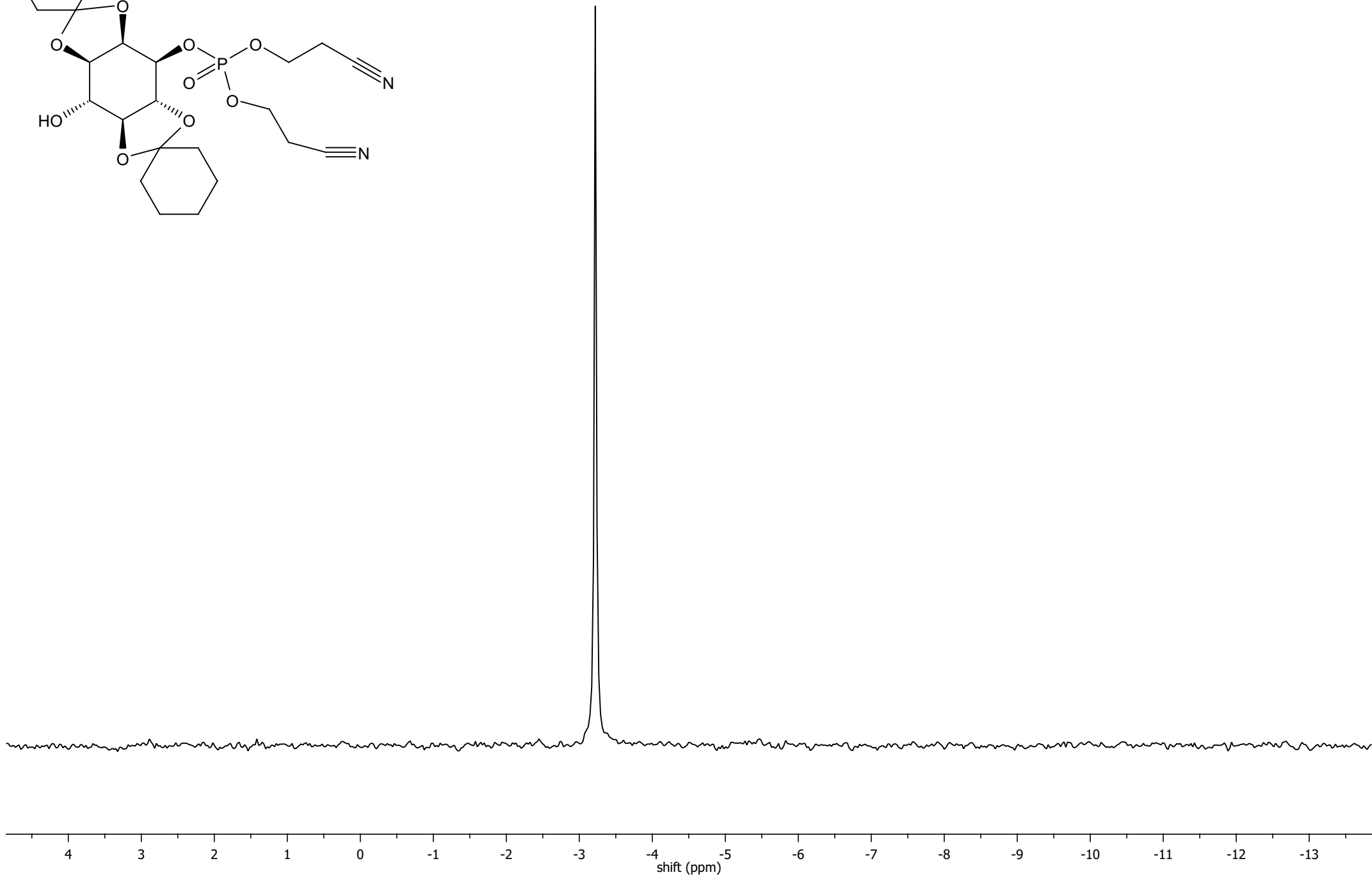
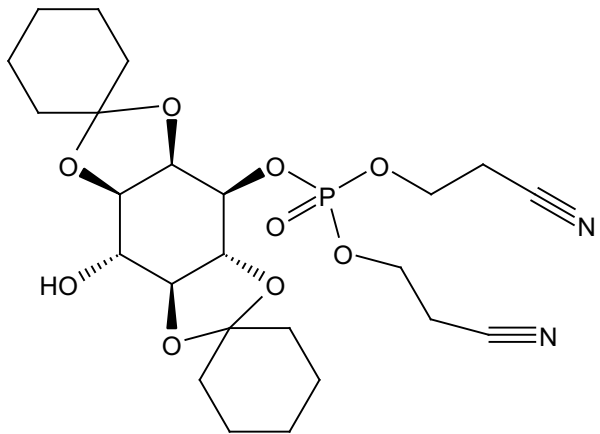




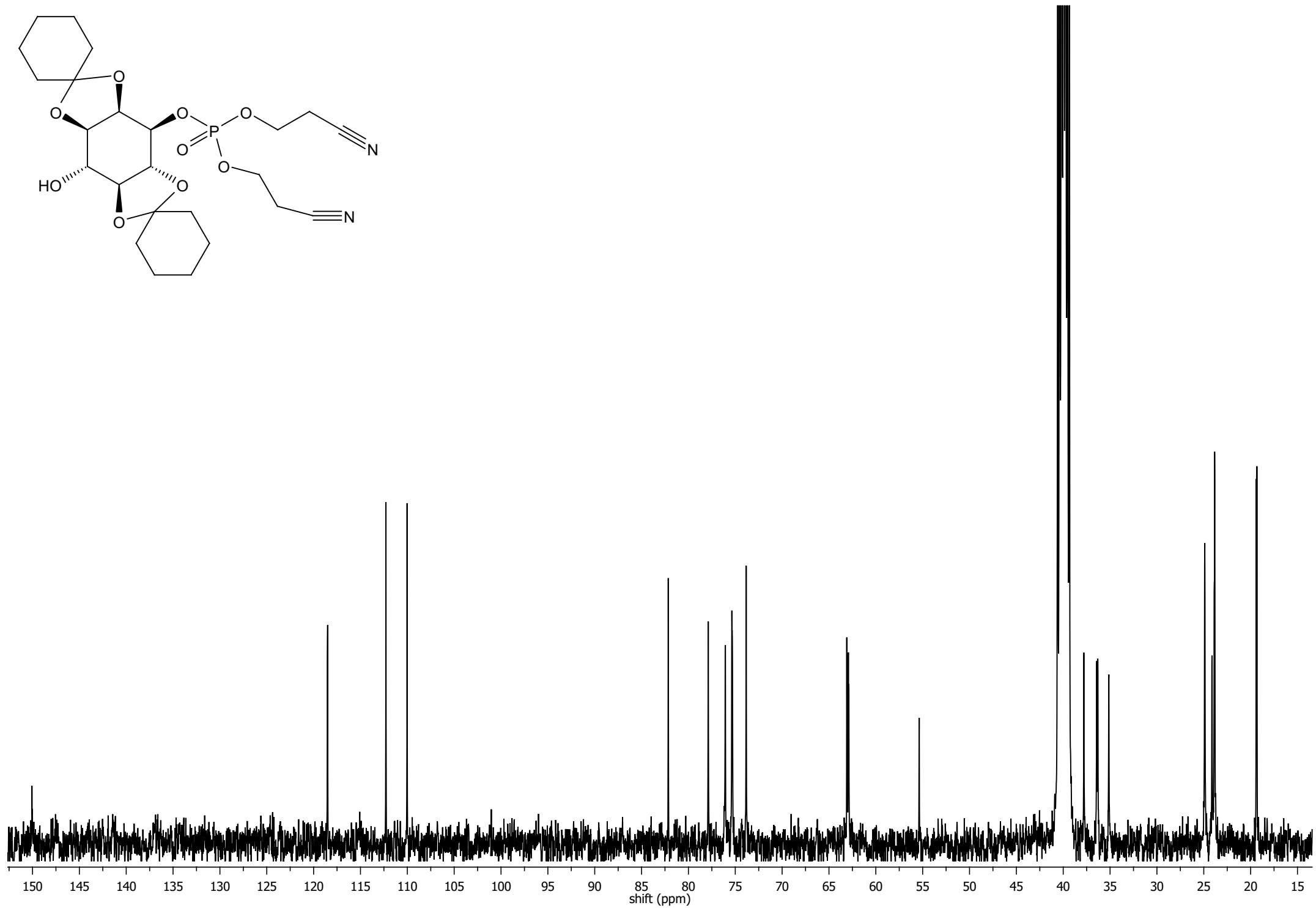
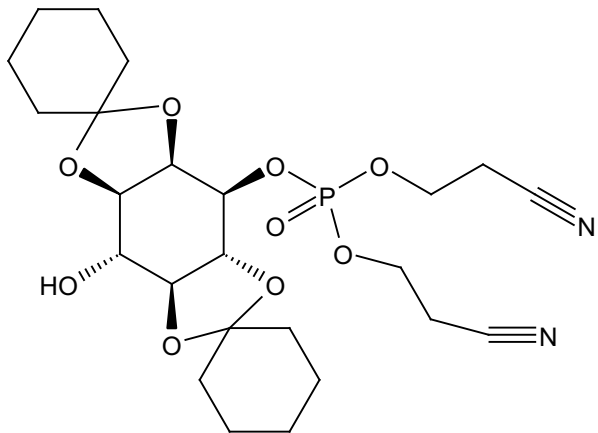
**(-)-1-O-(Dicyanoethoxy)phosphoryl-(2,3)(5,6)-O-dicyclohexylidene-*myo*-inositol, 11.**

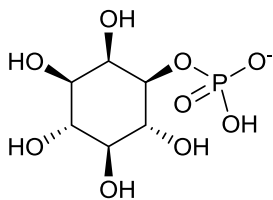
HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 527.2141$ ,  $C_{24}H_{36}O_9N_2P$  requires 527.2158.





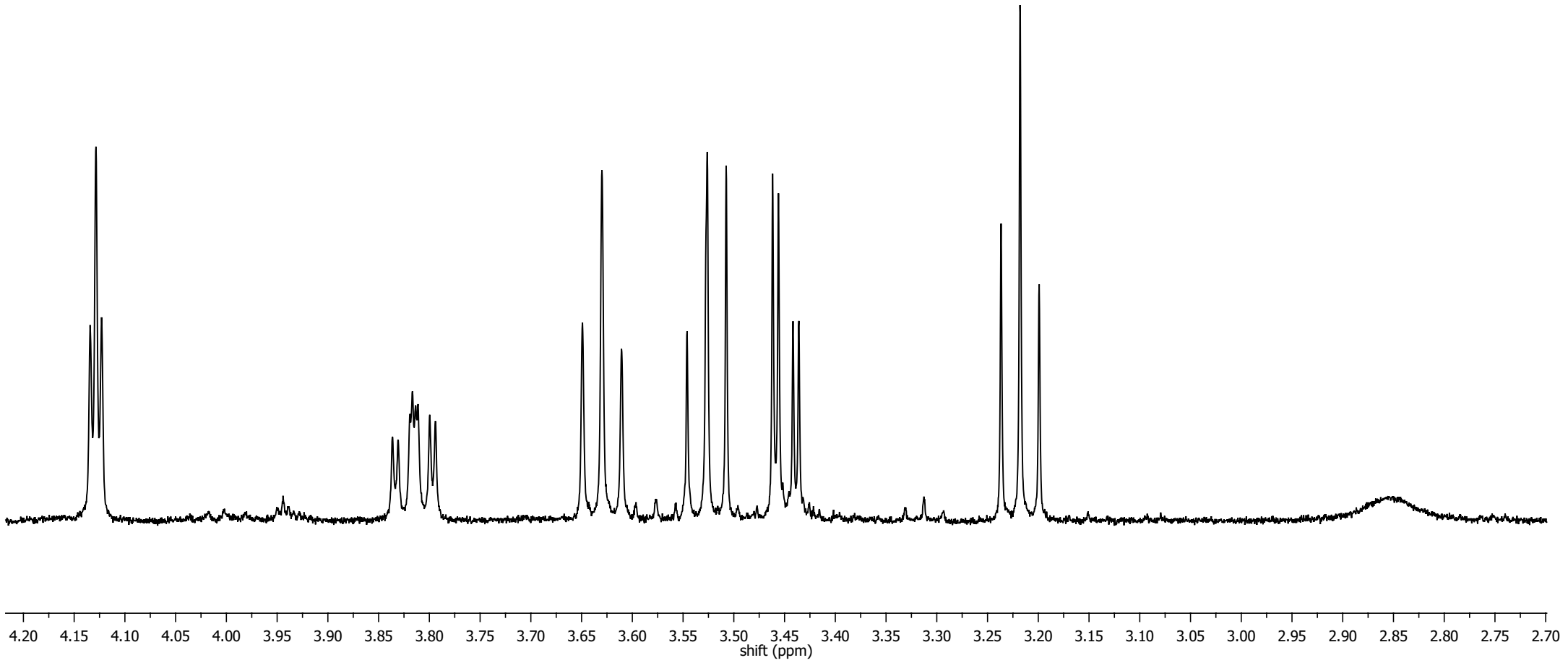
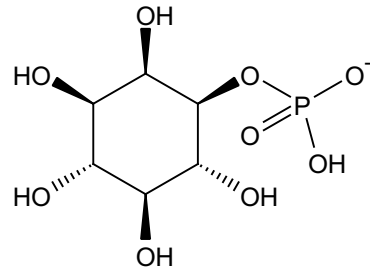


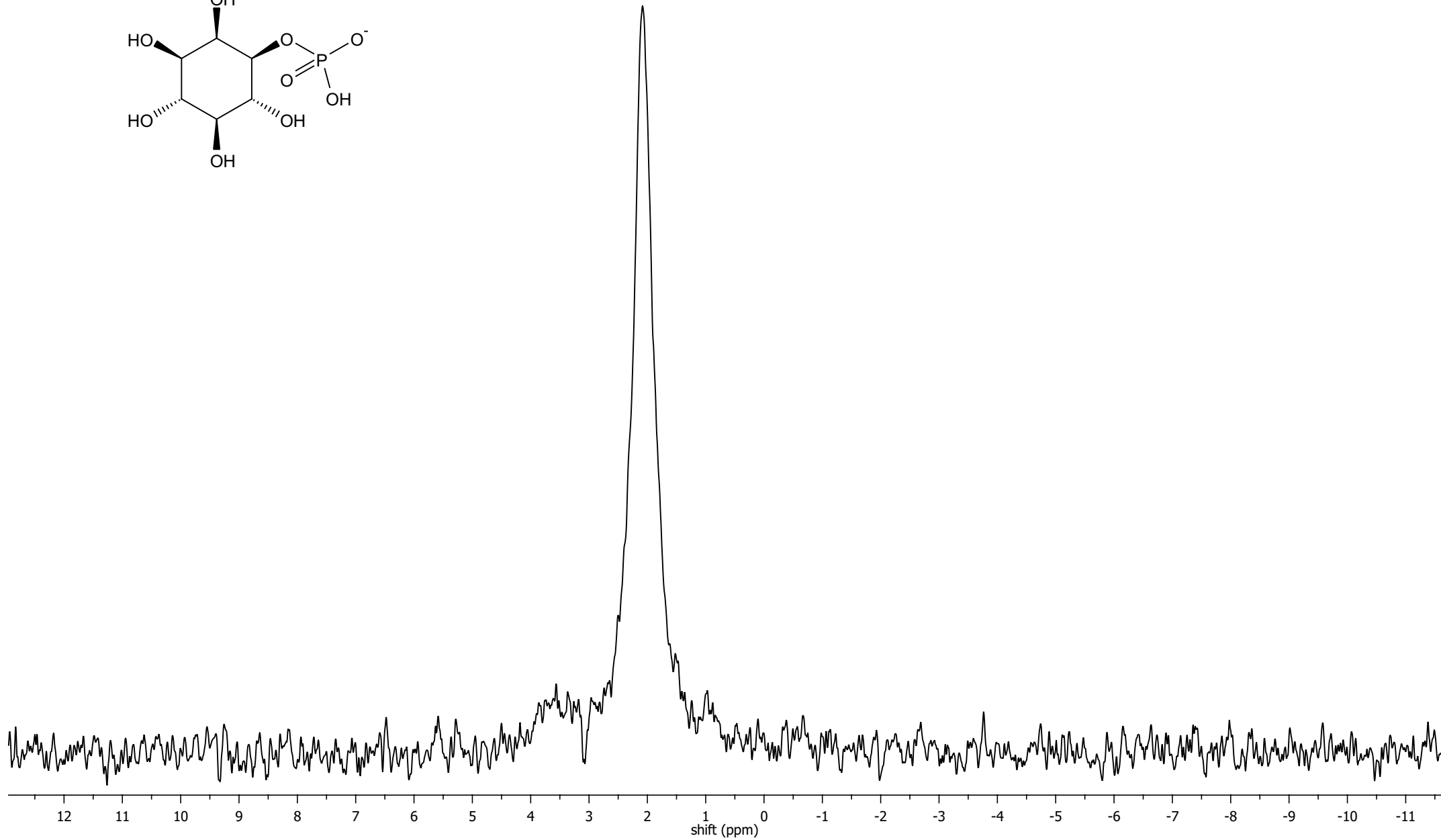
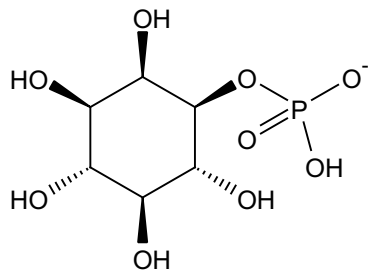


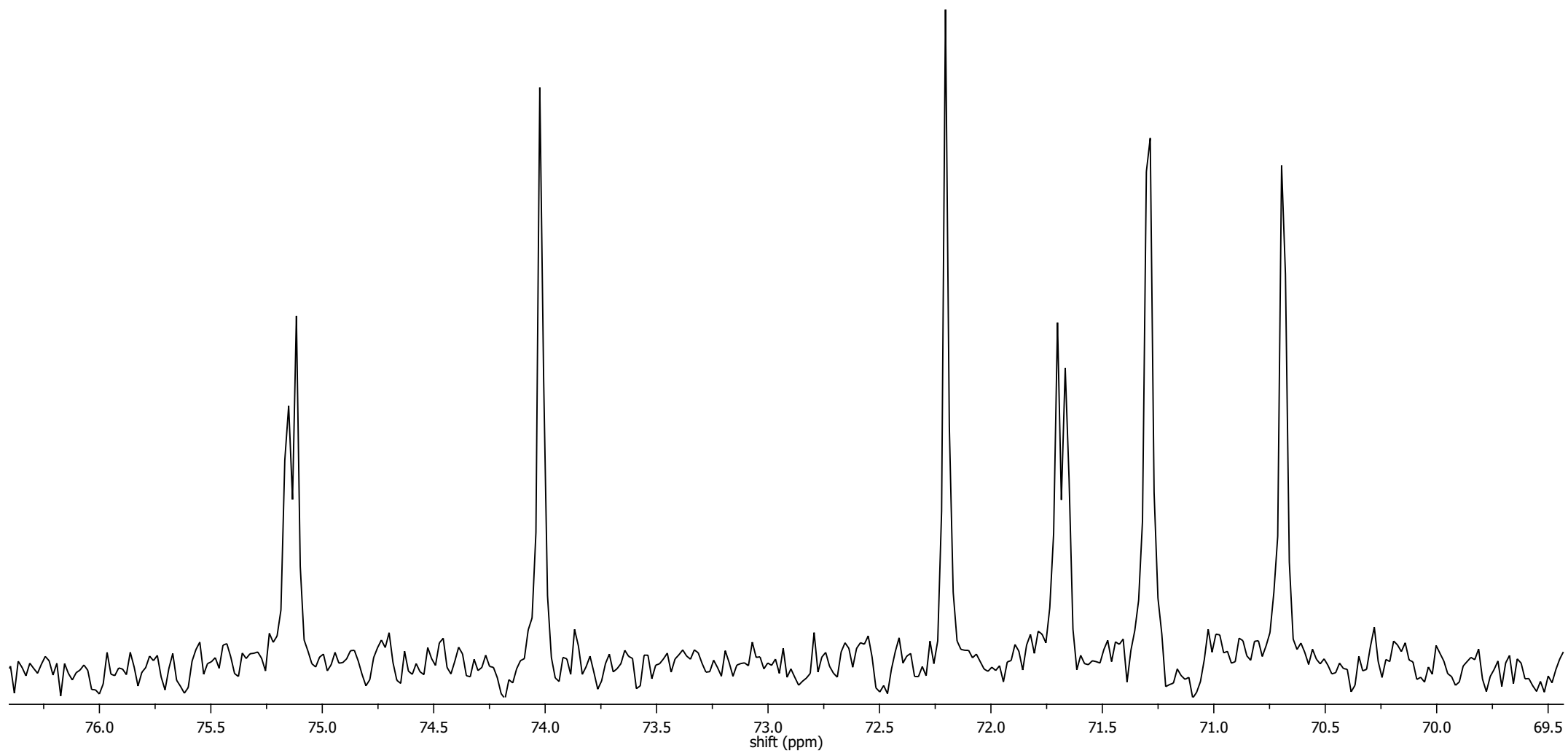
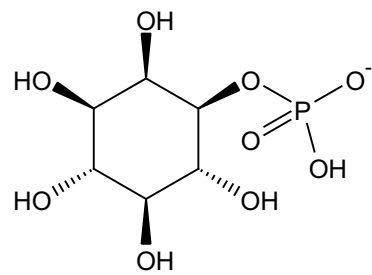


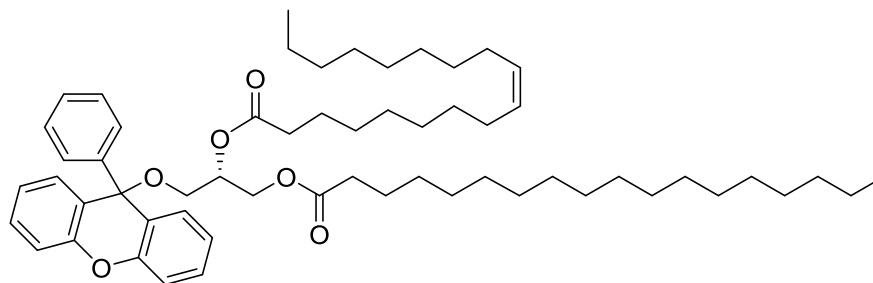
***myo*-Inositol-1-phosphate, 26.**

HRMS (ESI-)  $m/z$  found  $[M-H]^- = 259.0210$ ,  $C_6H_{12}O_9P^-$  requires 259.0219.



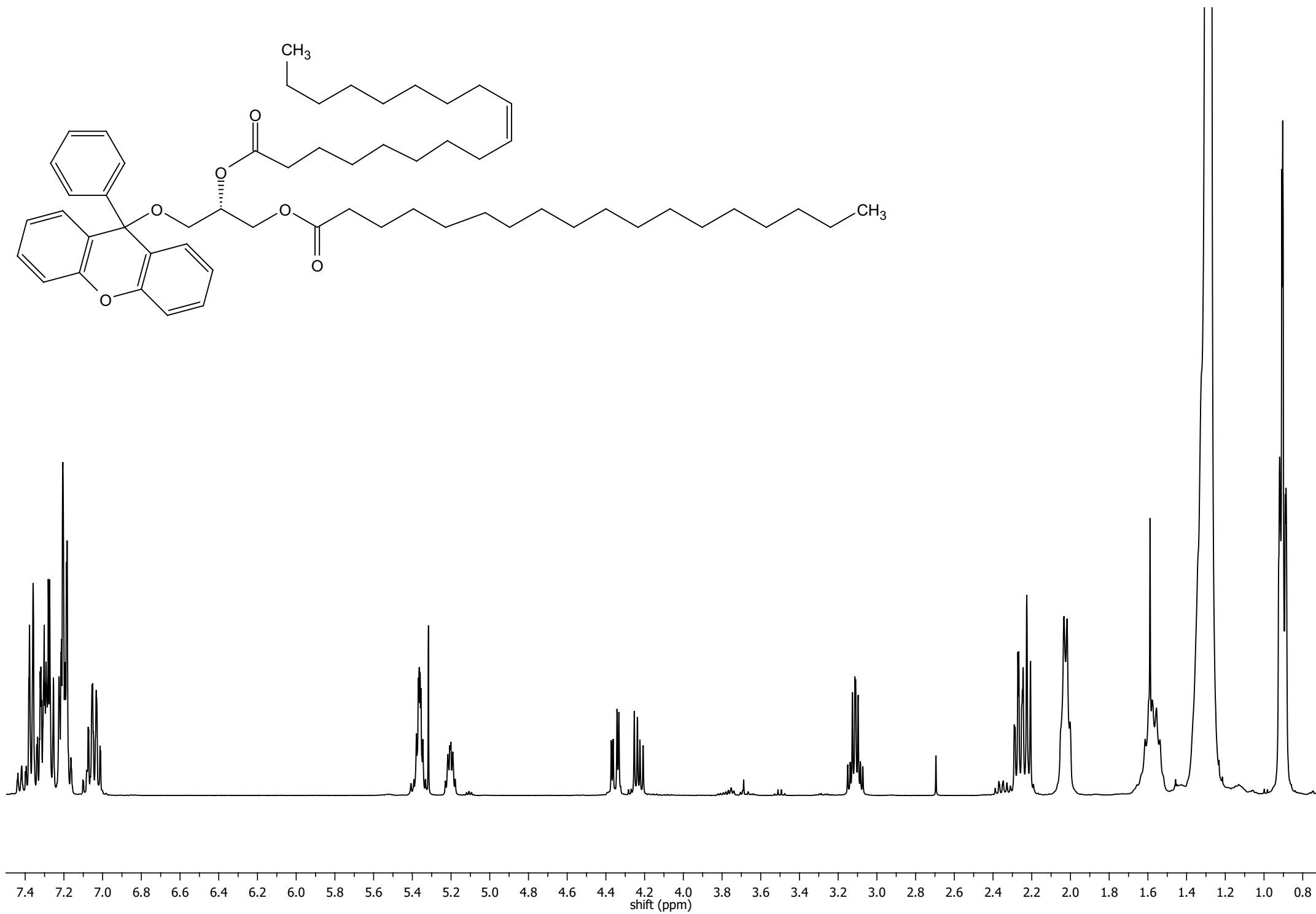
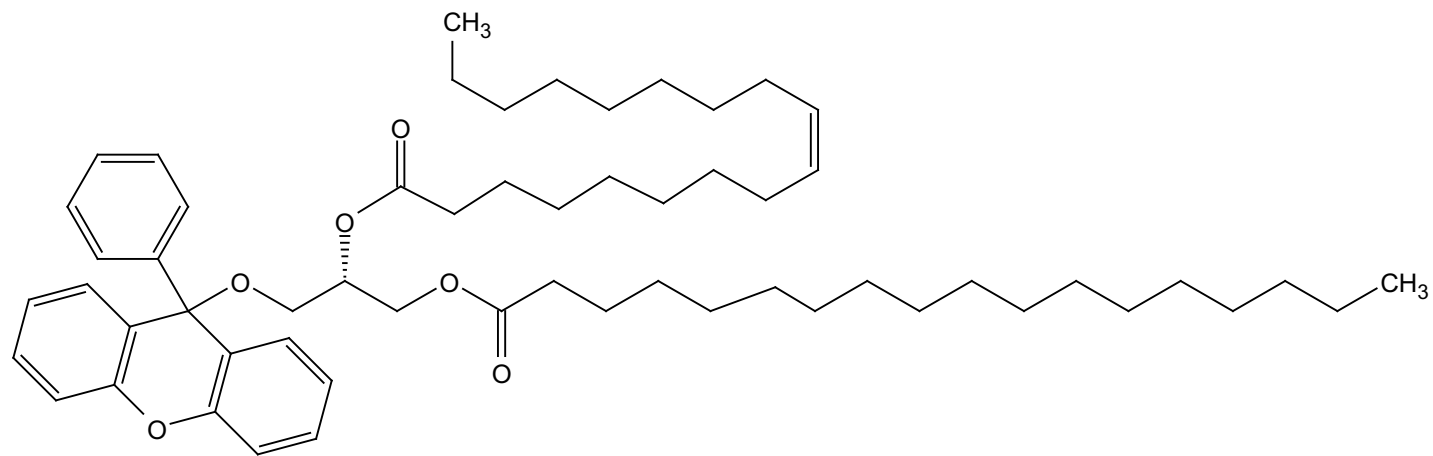


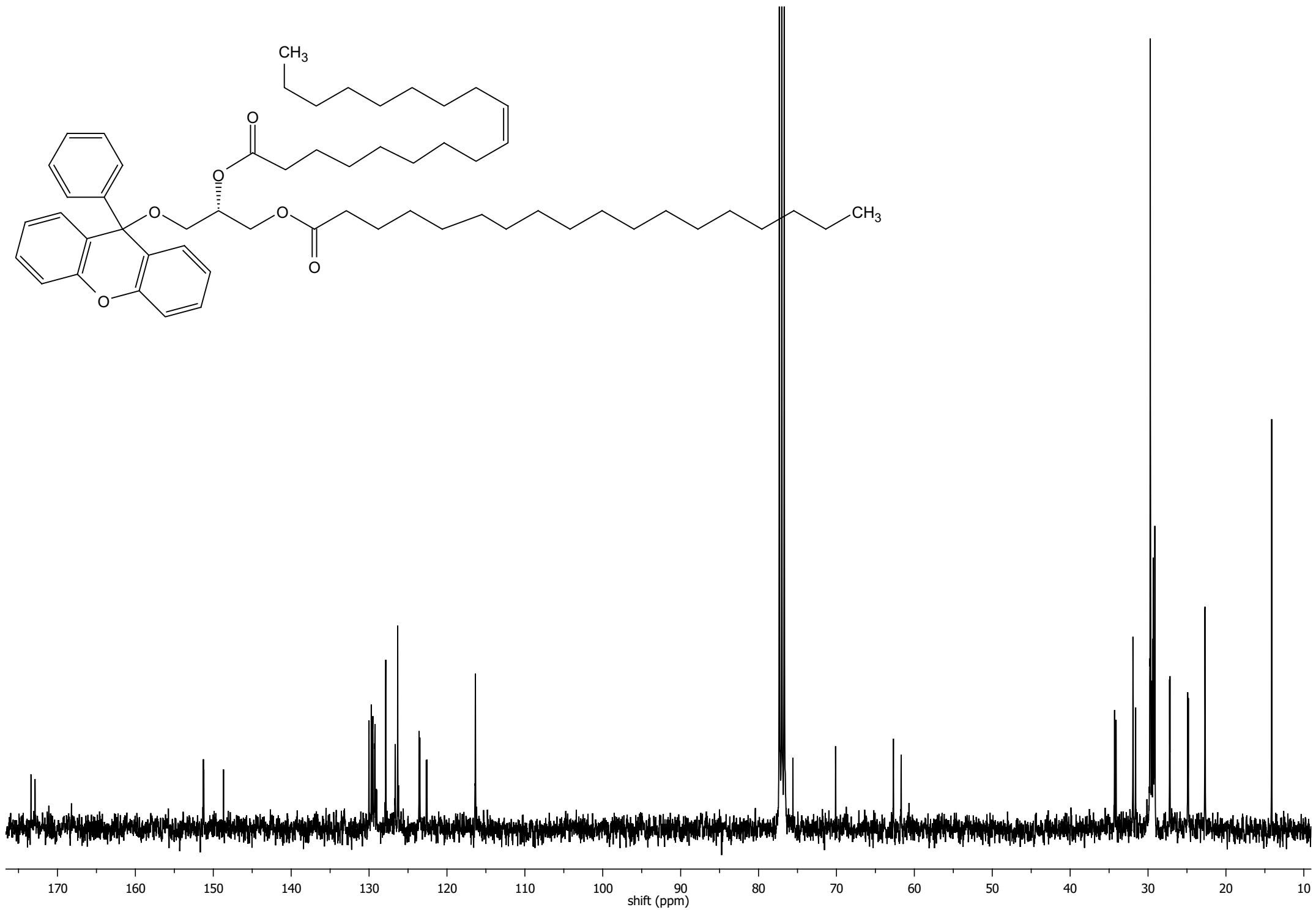
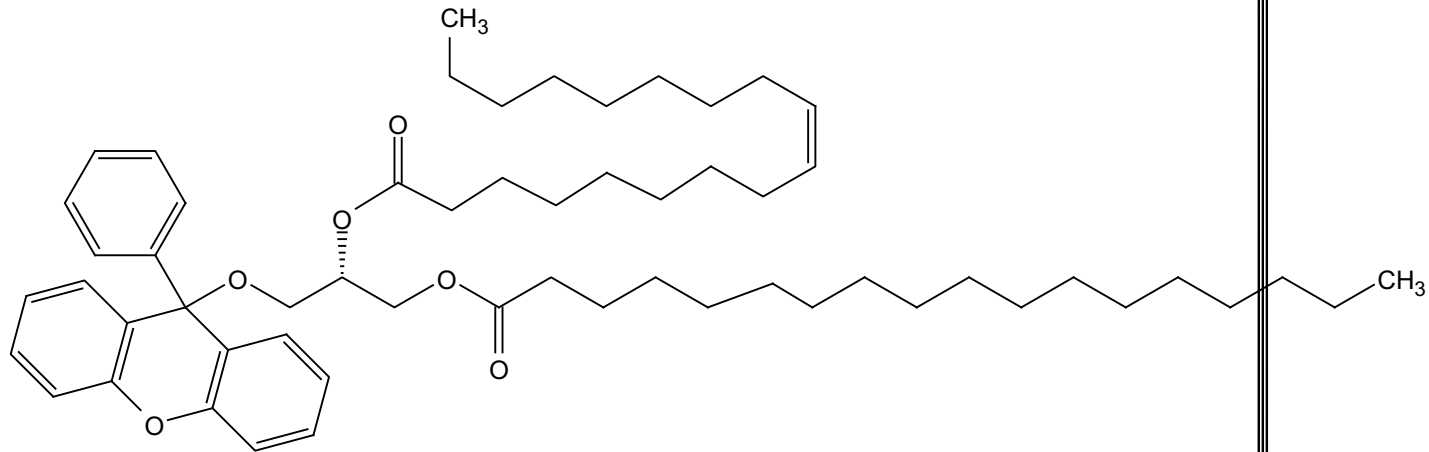




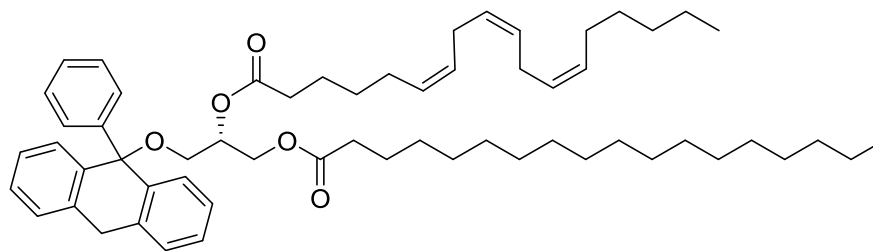
***sn*-1-*O*-Stearoyl-2-*O*-oleoyl-3-*O*-(9-phenylxanthen-9-yl) glycerol.**

HRMS (ESI+)  $m/z$  found  $[M+Na]^+ = 901.6354$ ,  $C_{58}H_{86}O_6Na$  requires 901.6322.



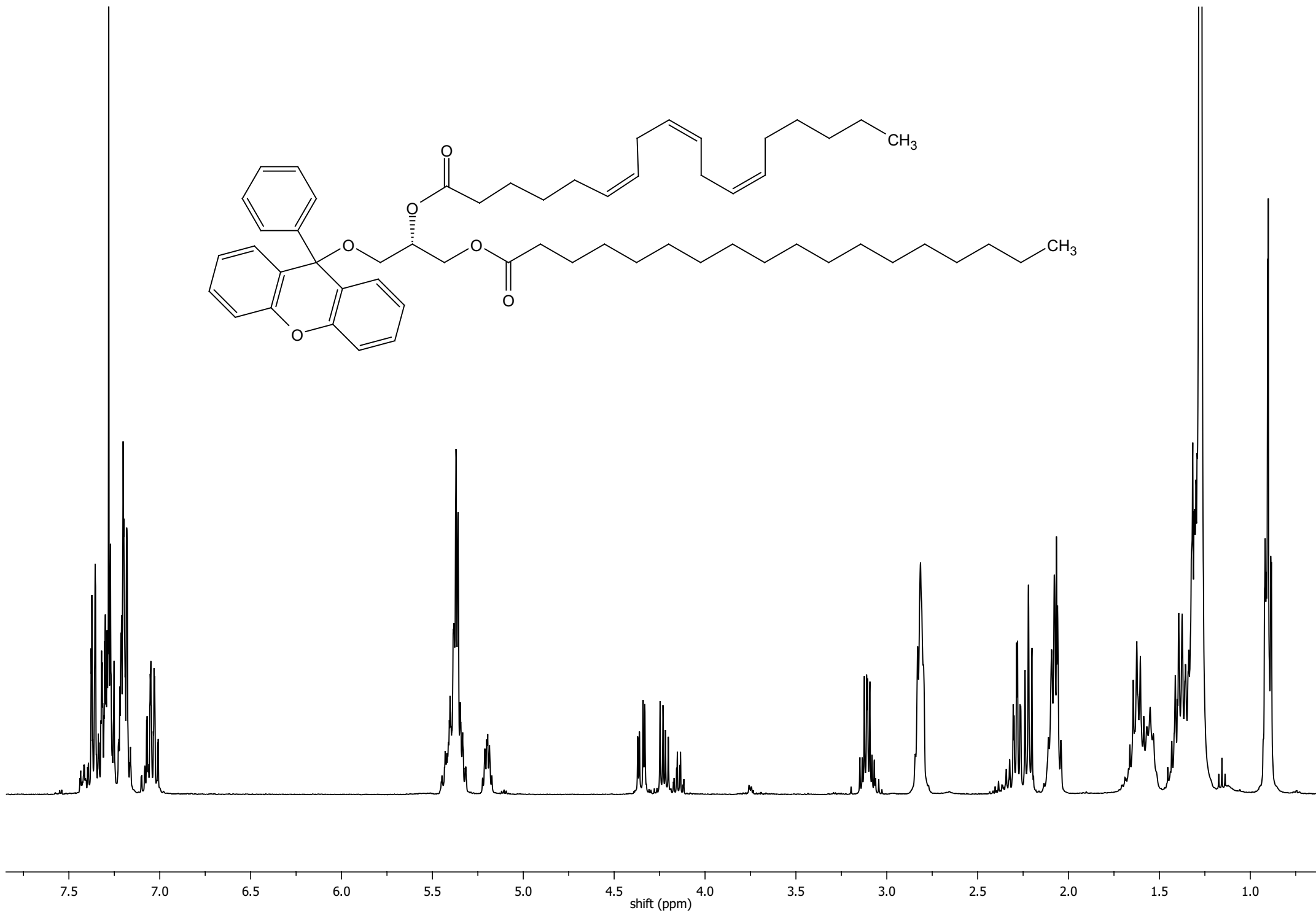
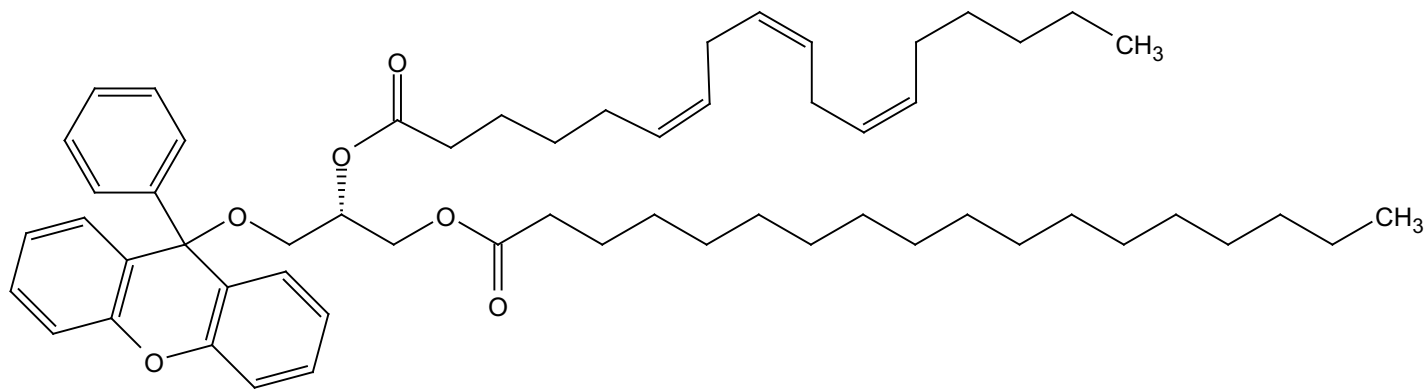


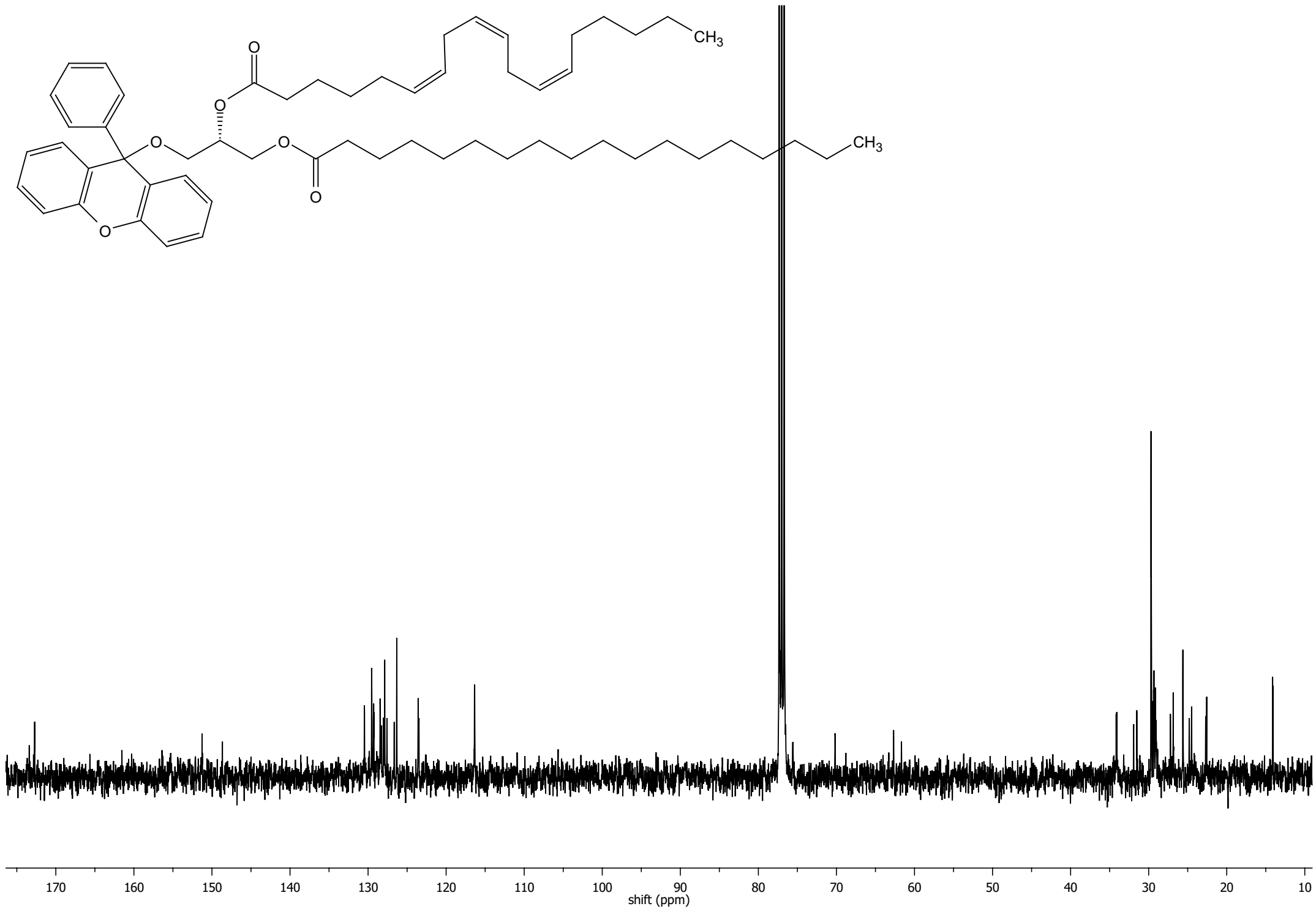
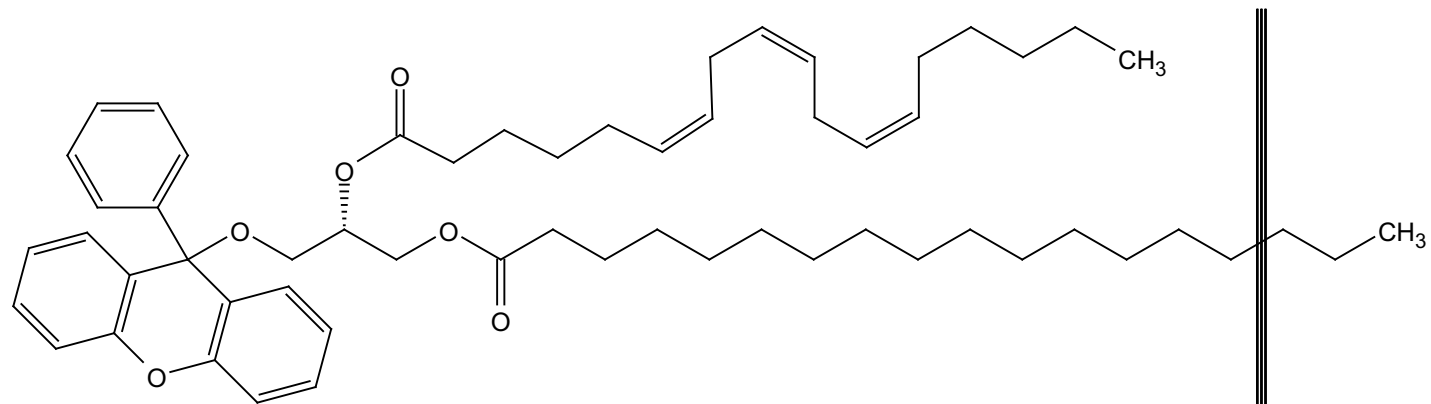


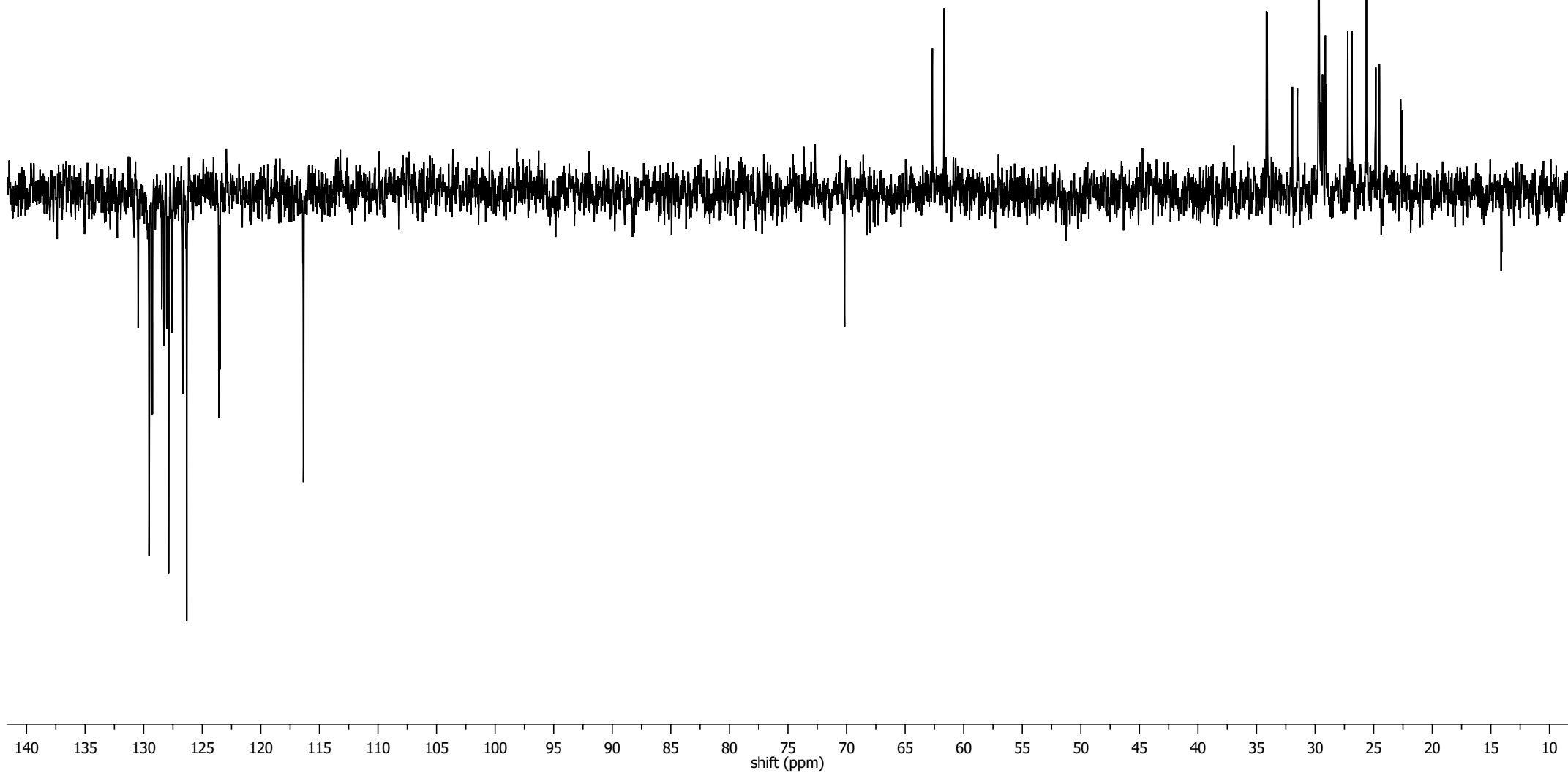
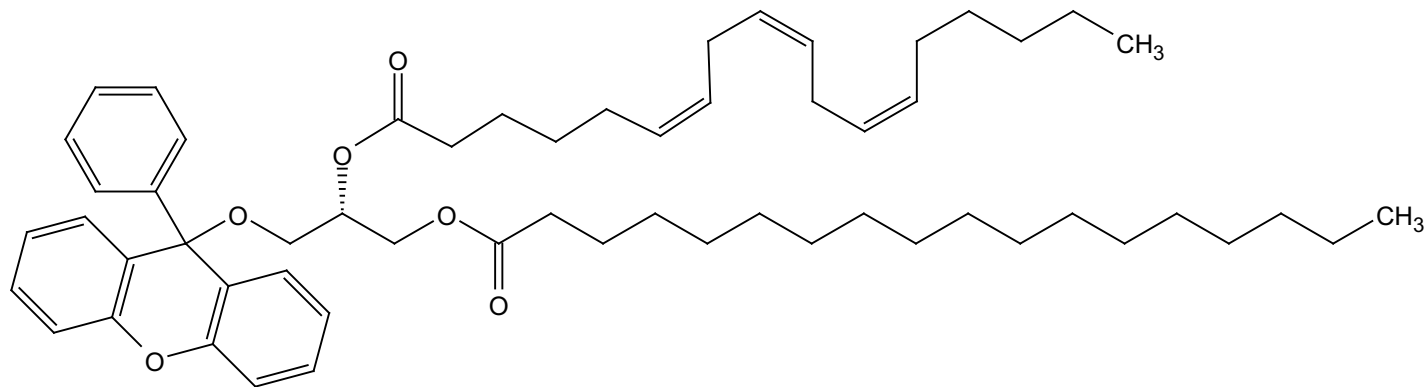


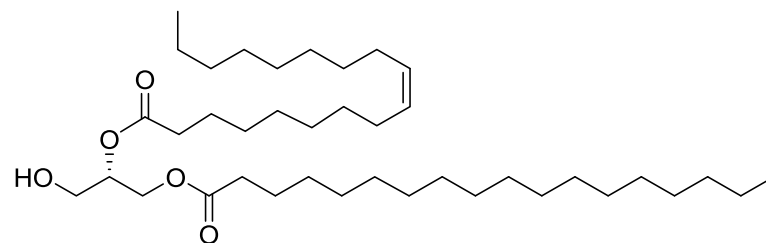
***sn*-1-*O*-Stearoyl-2-*O*- $\gamma$ -linolenoyl-3-*O*-(9-phenylxanthen-9-yl) glycerol.**

HRMS (ESI+)  $m/z$  found  $[M+Na]^+ = 897.6018$ ,  $C_{58}H_{82}O_6Na$  requires 897.6009.



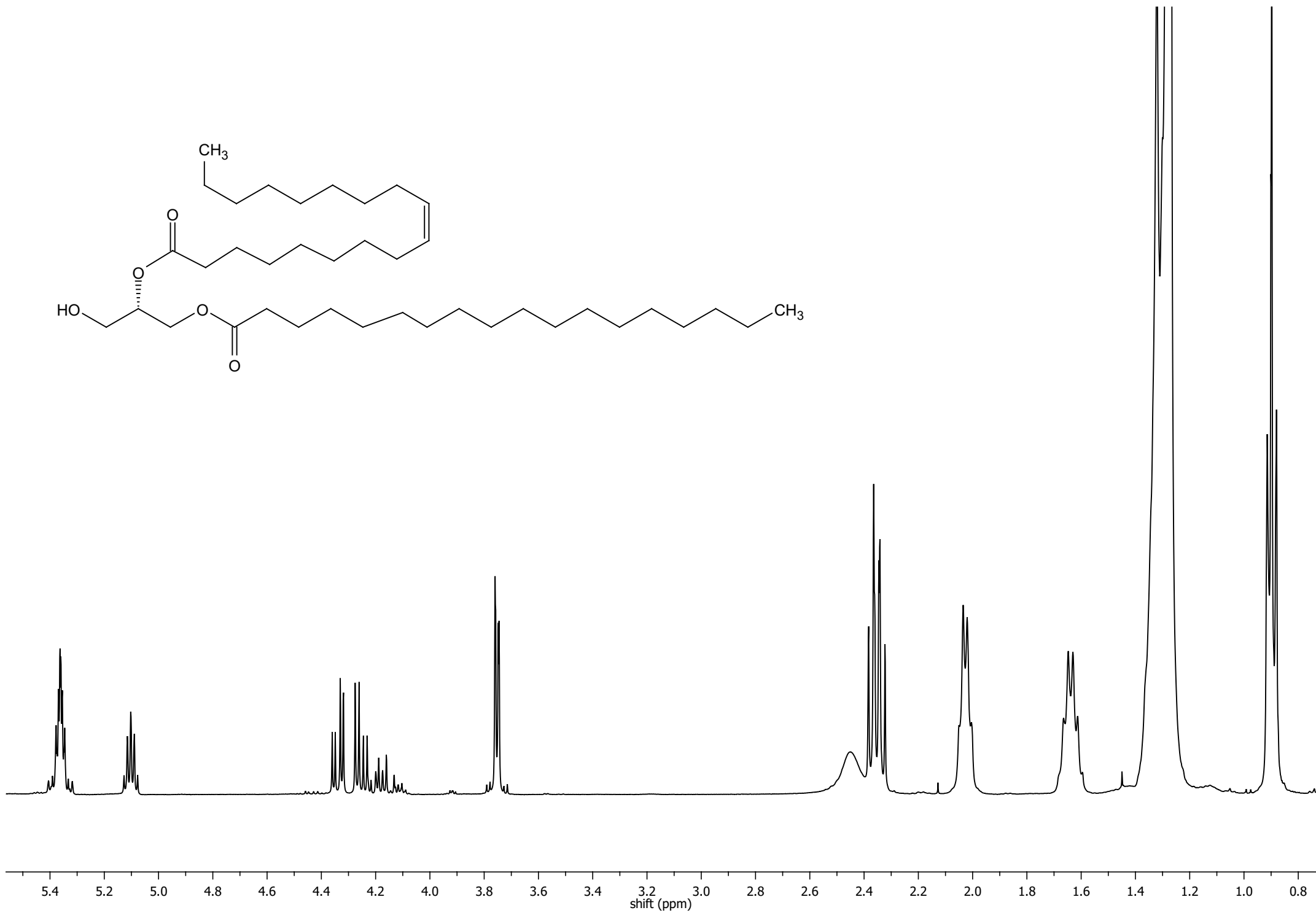
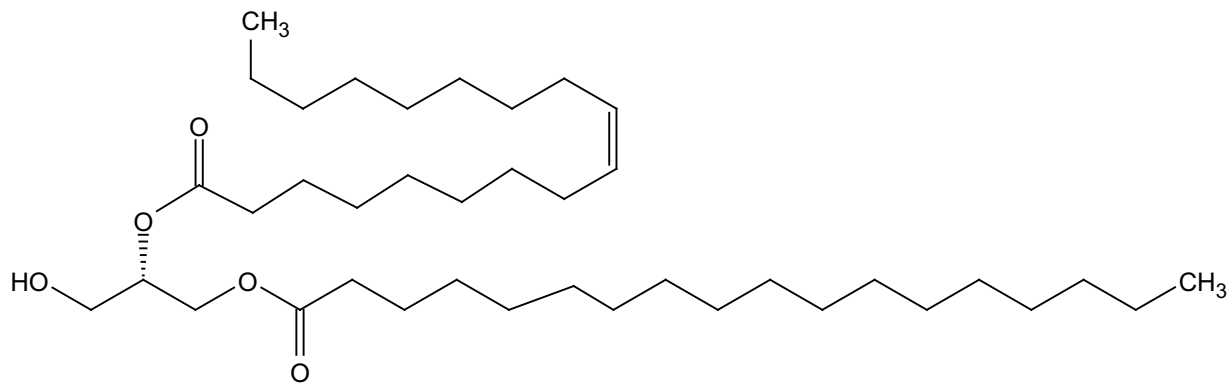


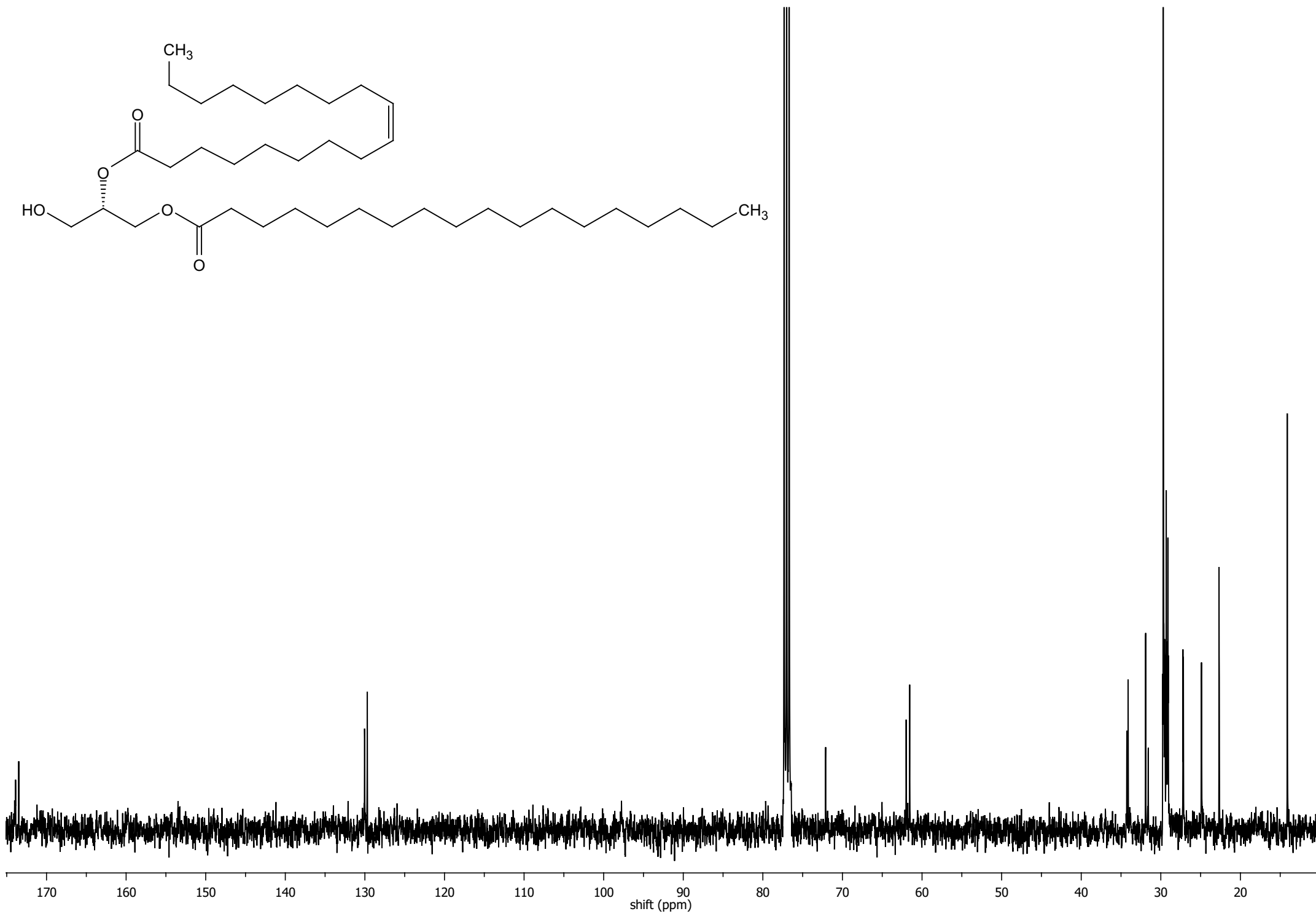
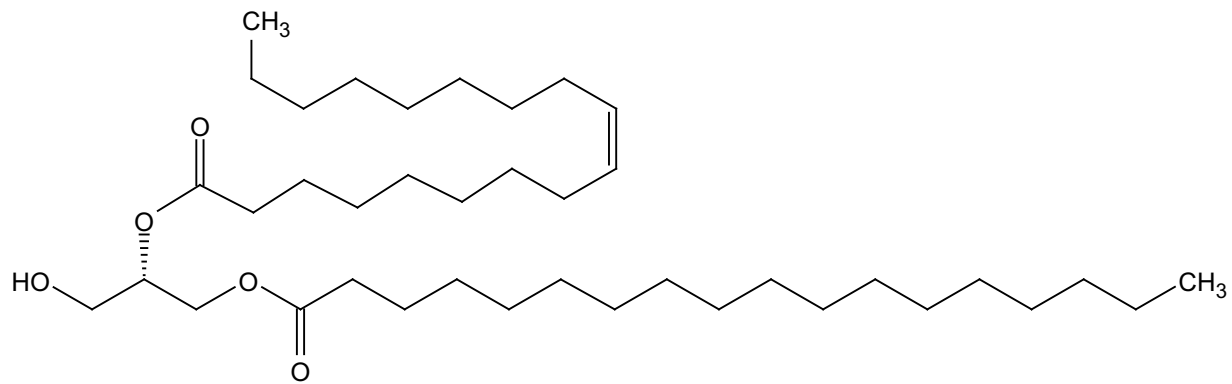


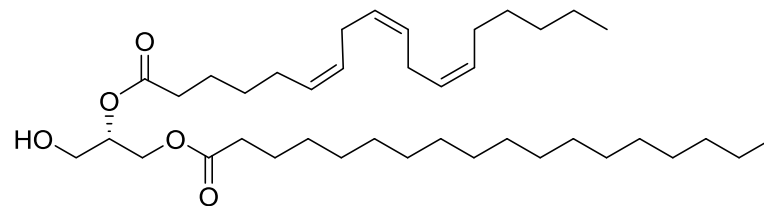


***sn*-1-*O*-Stearoyl-2-*O*-oleoyl glycerol, 19b.**

HRMS (ESI+)  $m/z$   $[M+H]^+ = 623.5623$ ,  $C_{39}H_{75}O_5^+$  requires 623.5610.



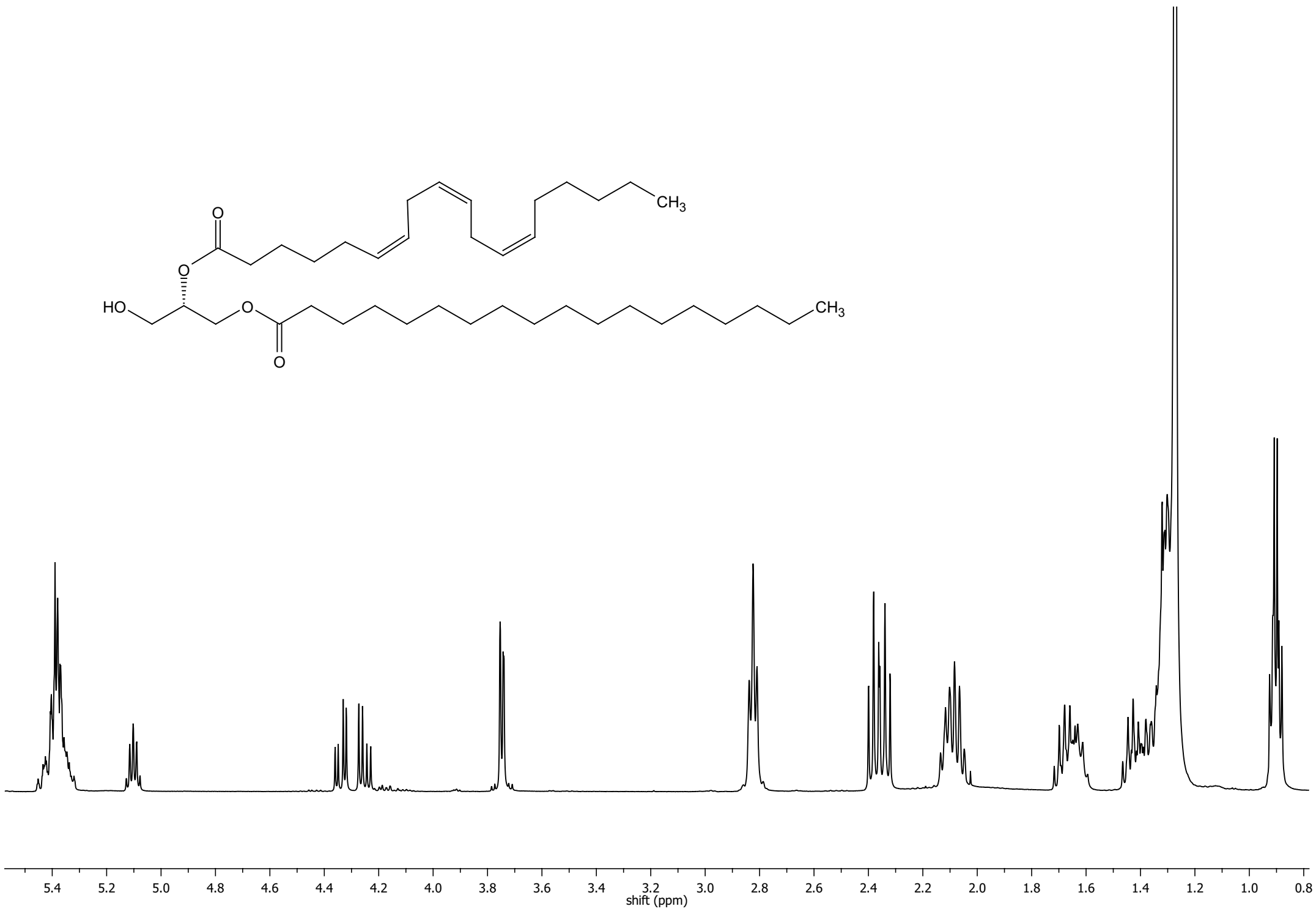
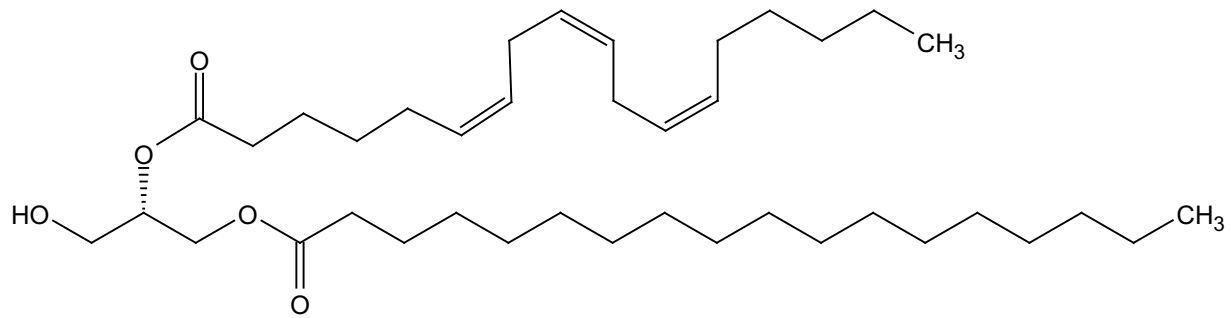


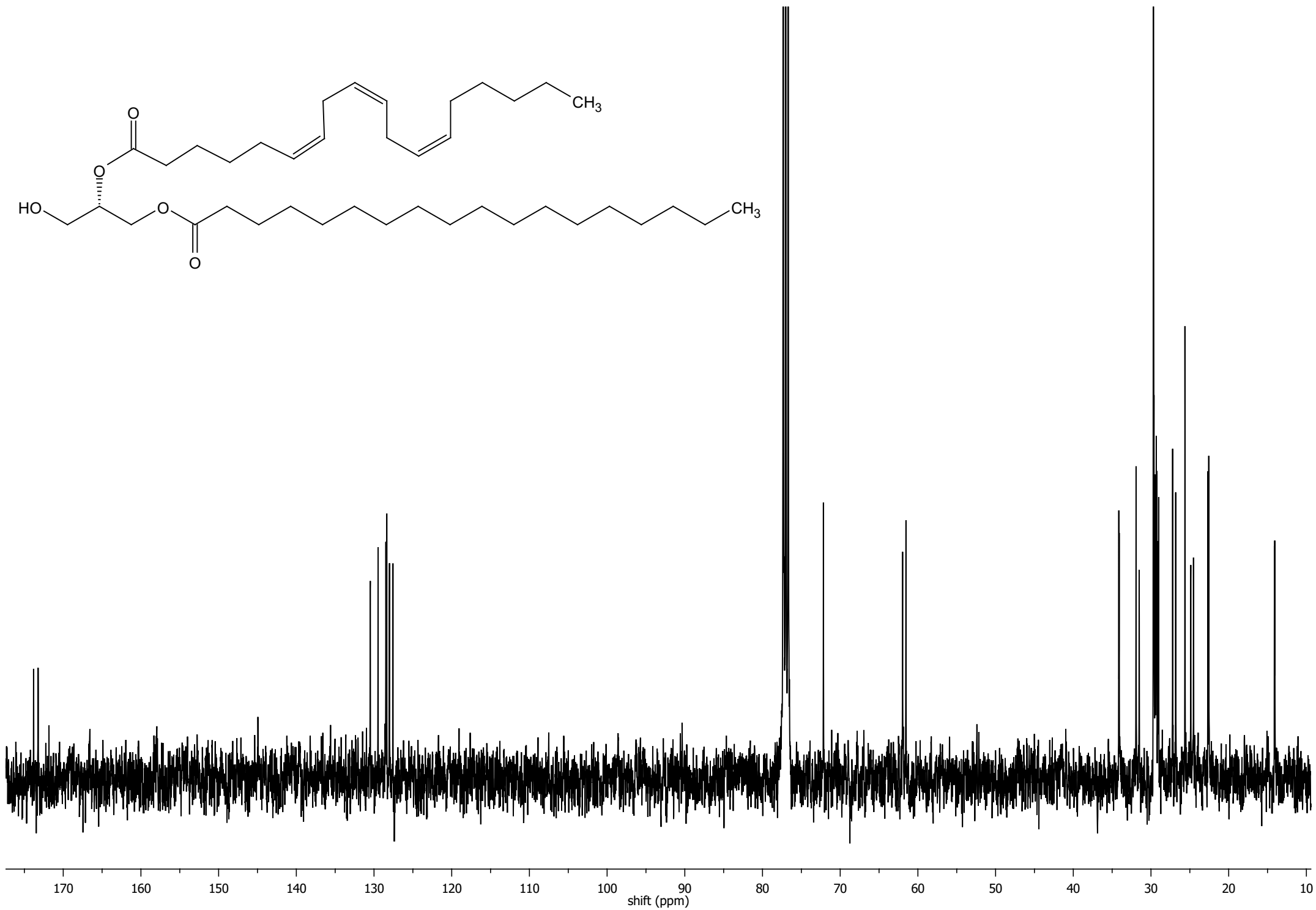
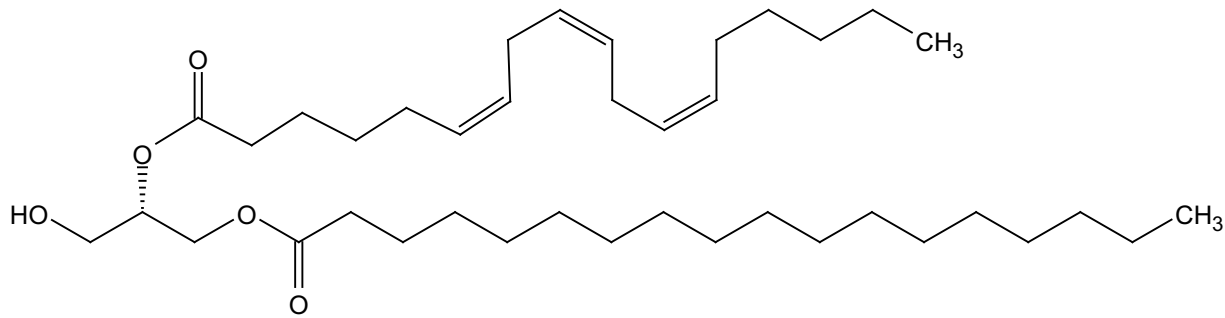


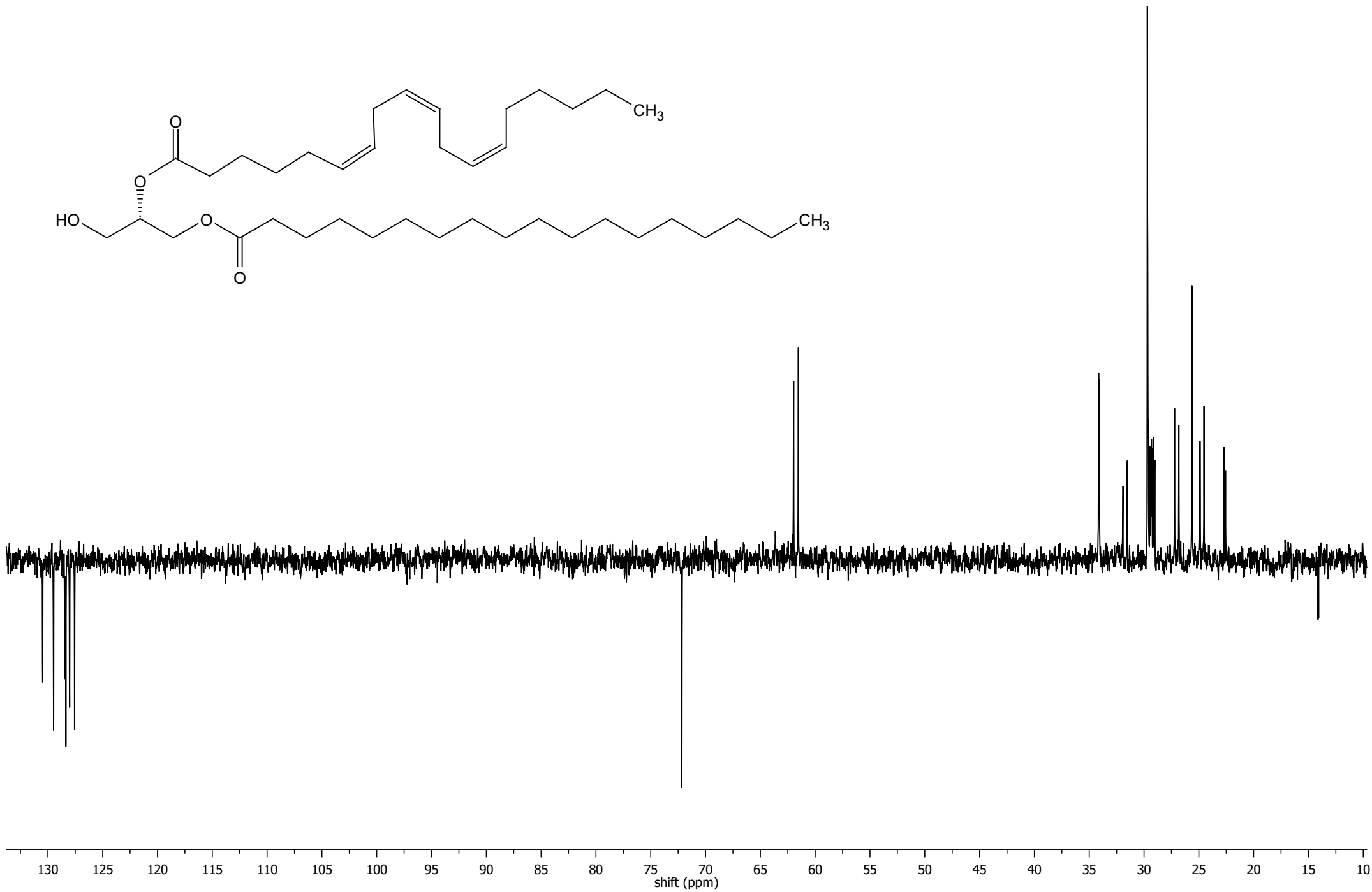
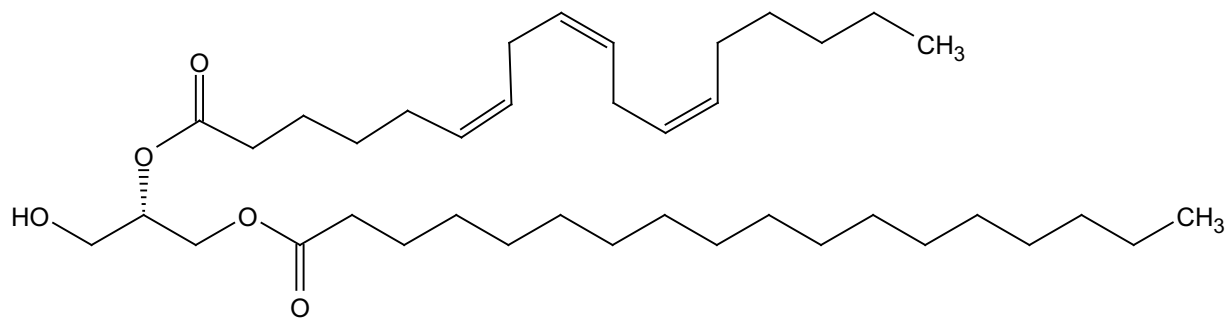
***sn*-1-*O*-Stearoyl-2-*O*- $\gamma$ -linolenoyl glycerol, 19c.**

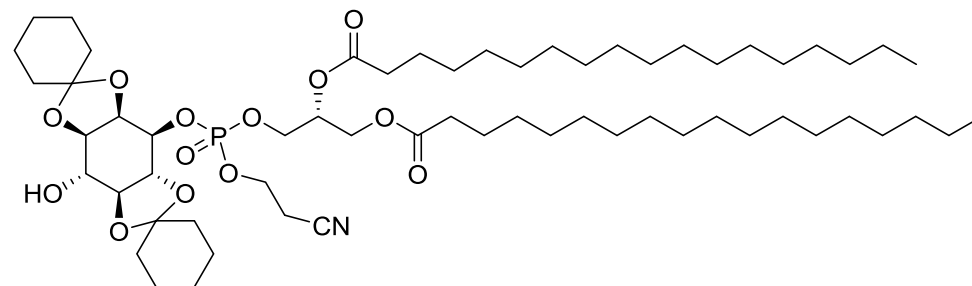
HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 619.5006$ ,  $C_{39}H_{71}O_5$  requires 619.5050.





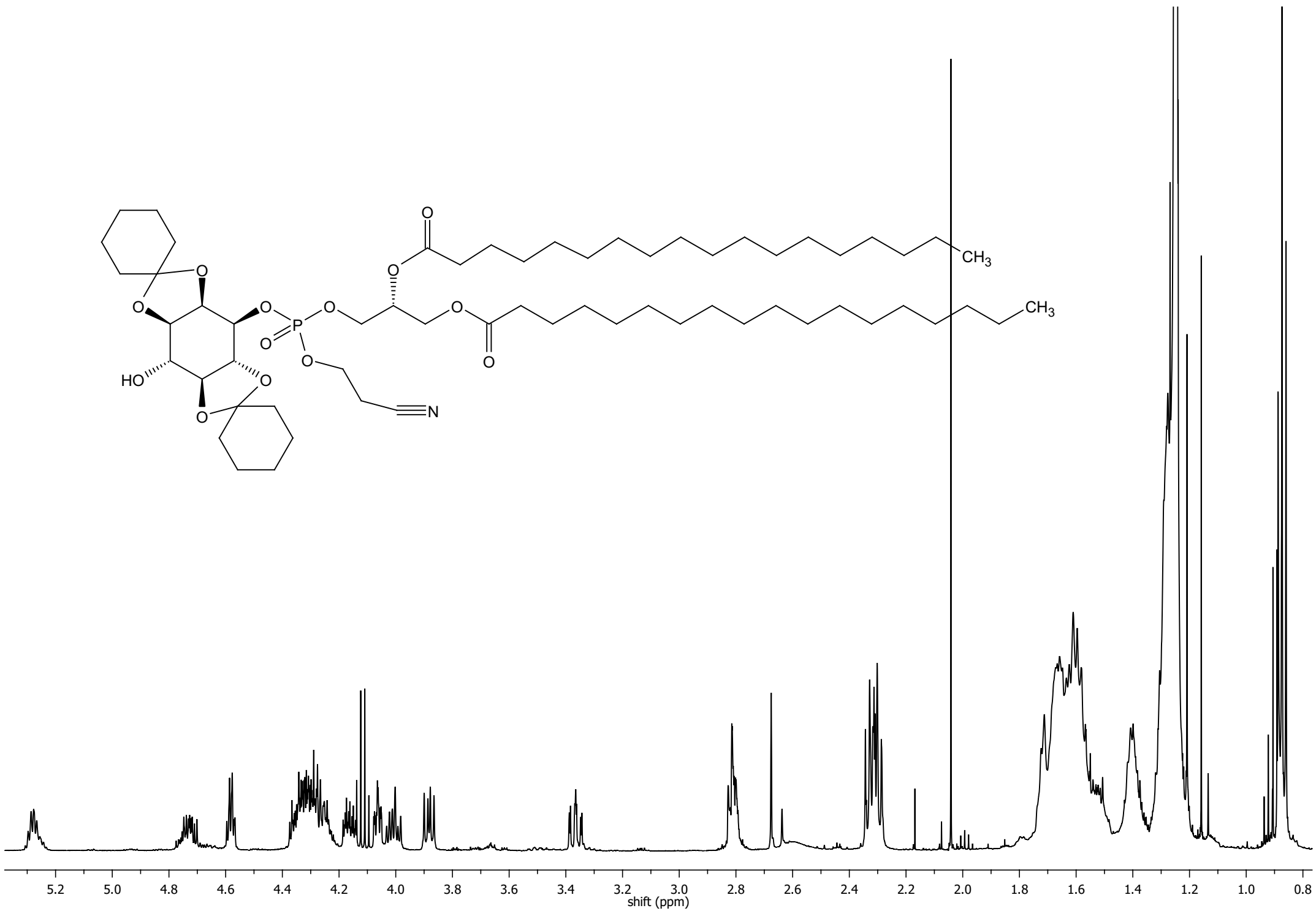
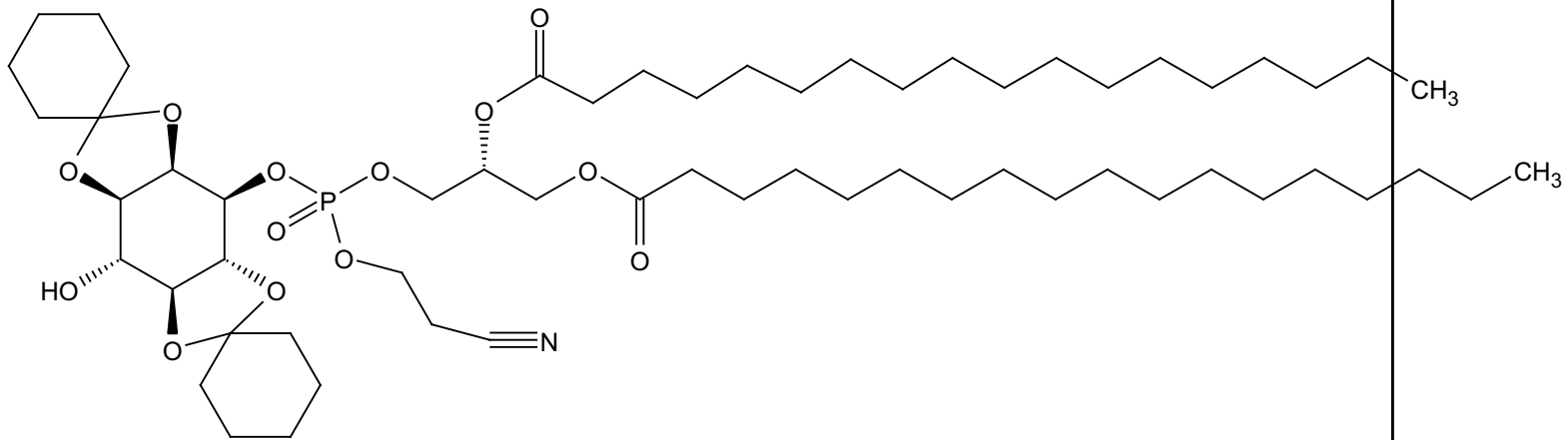


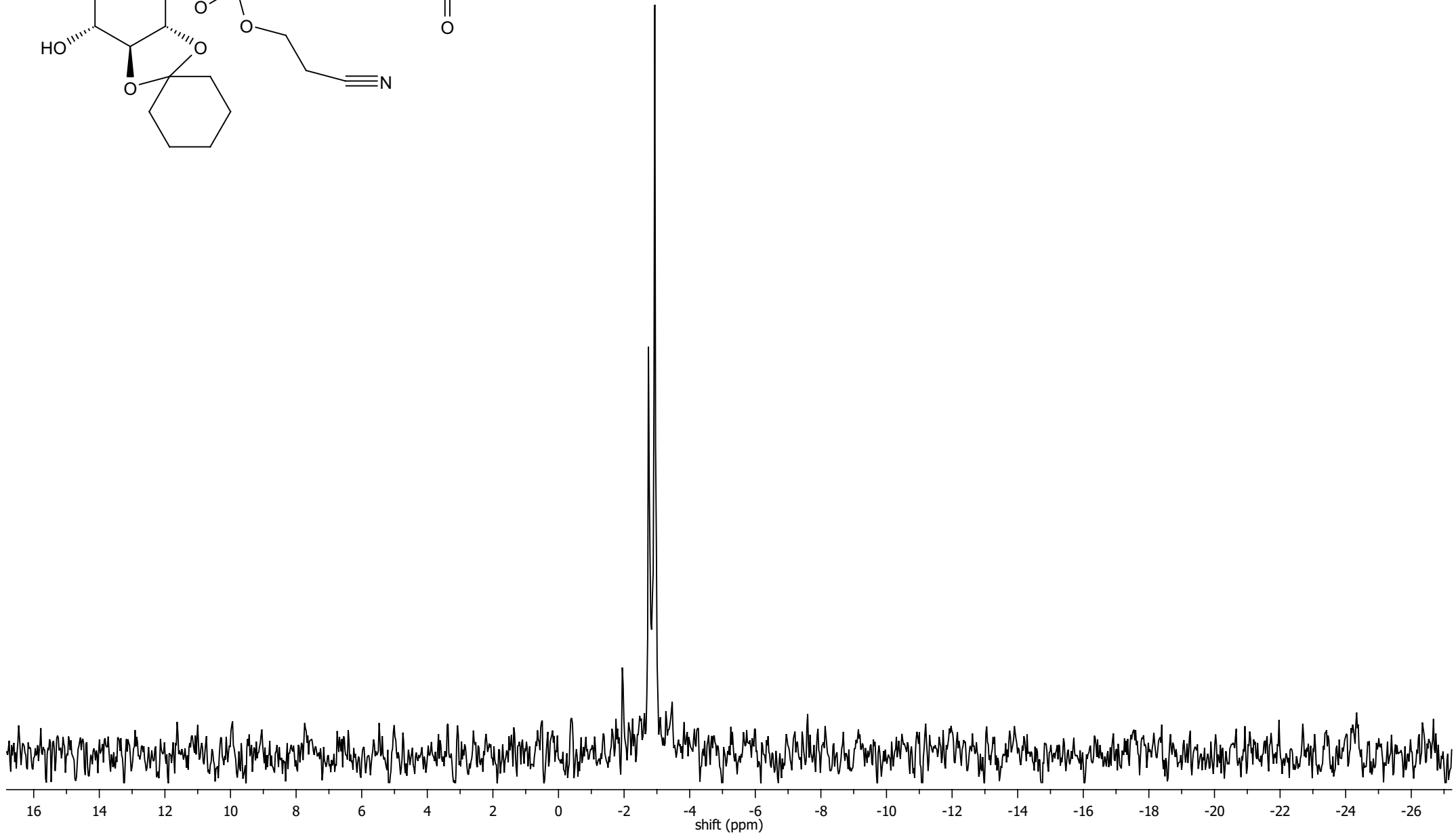
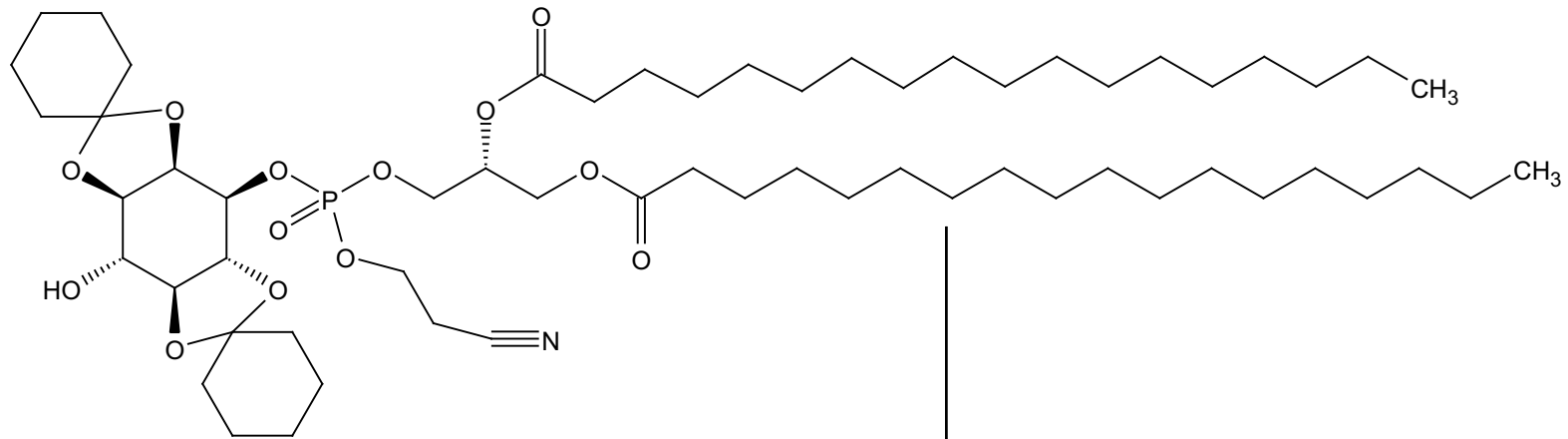


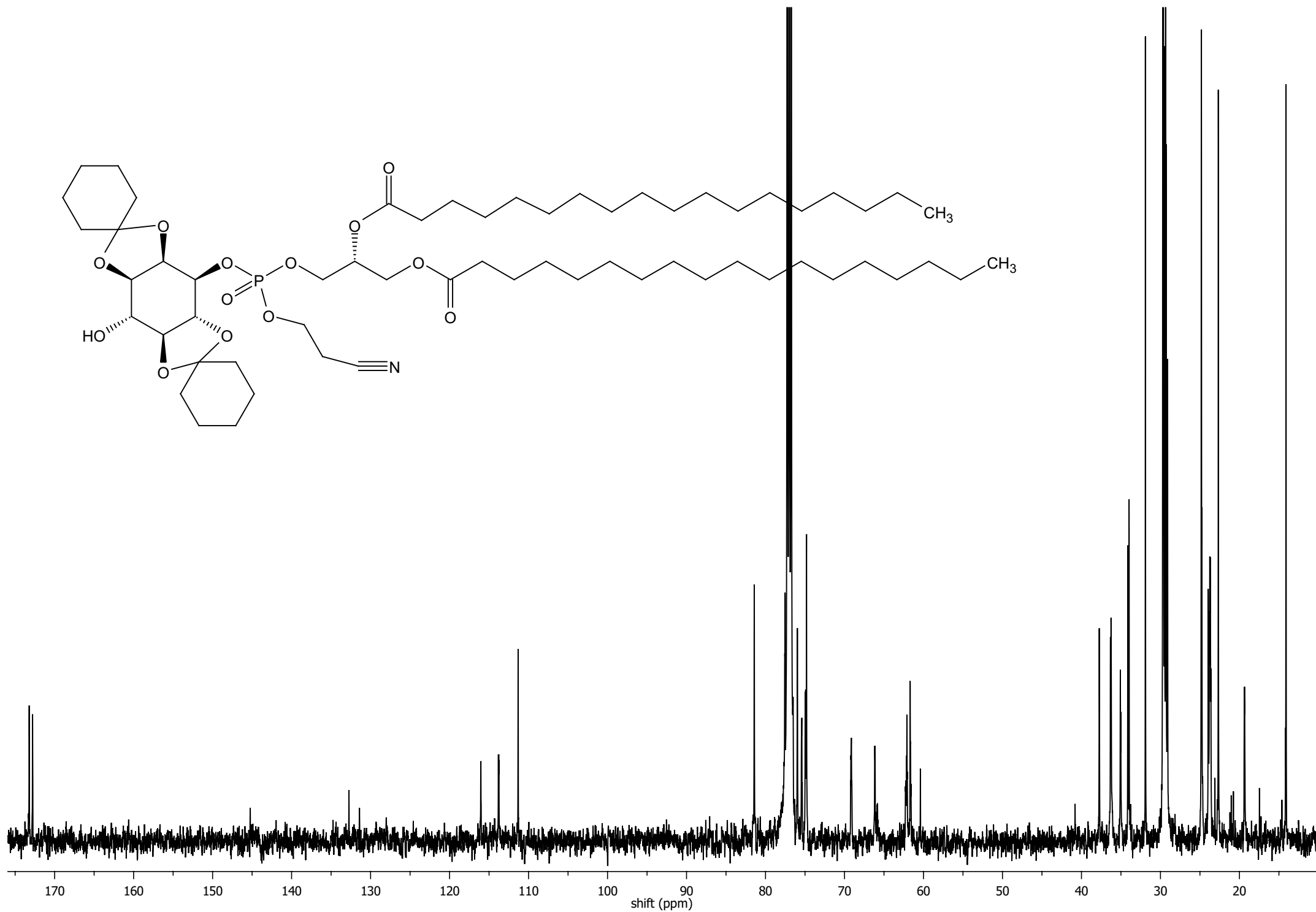
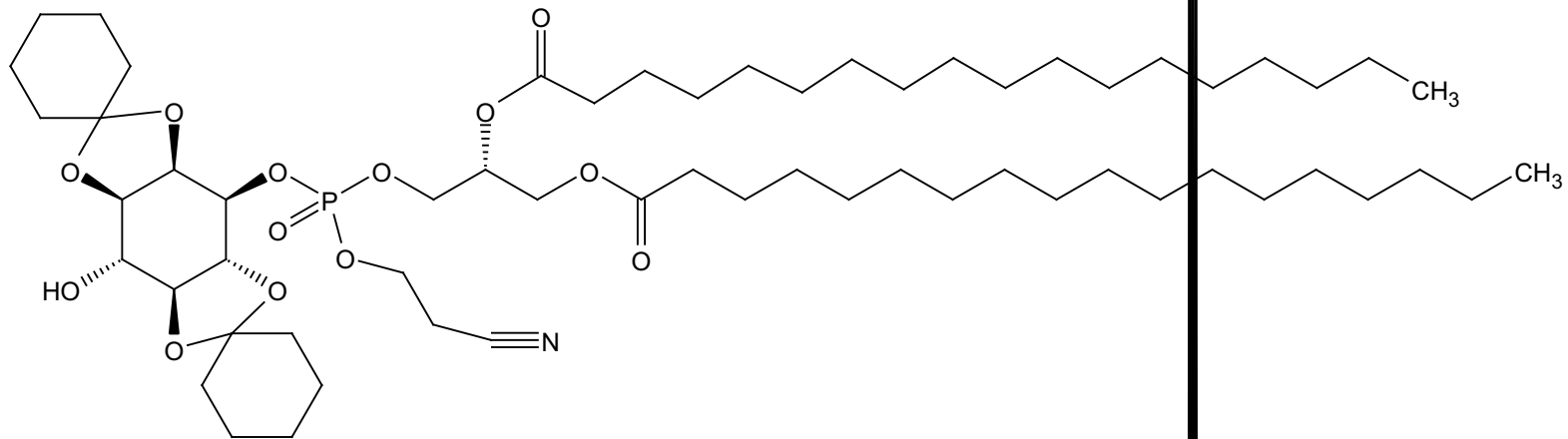


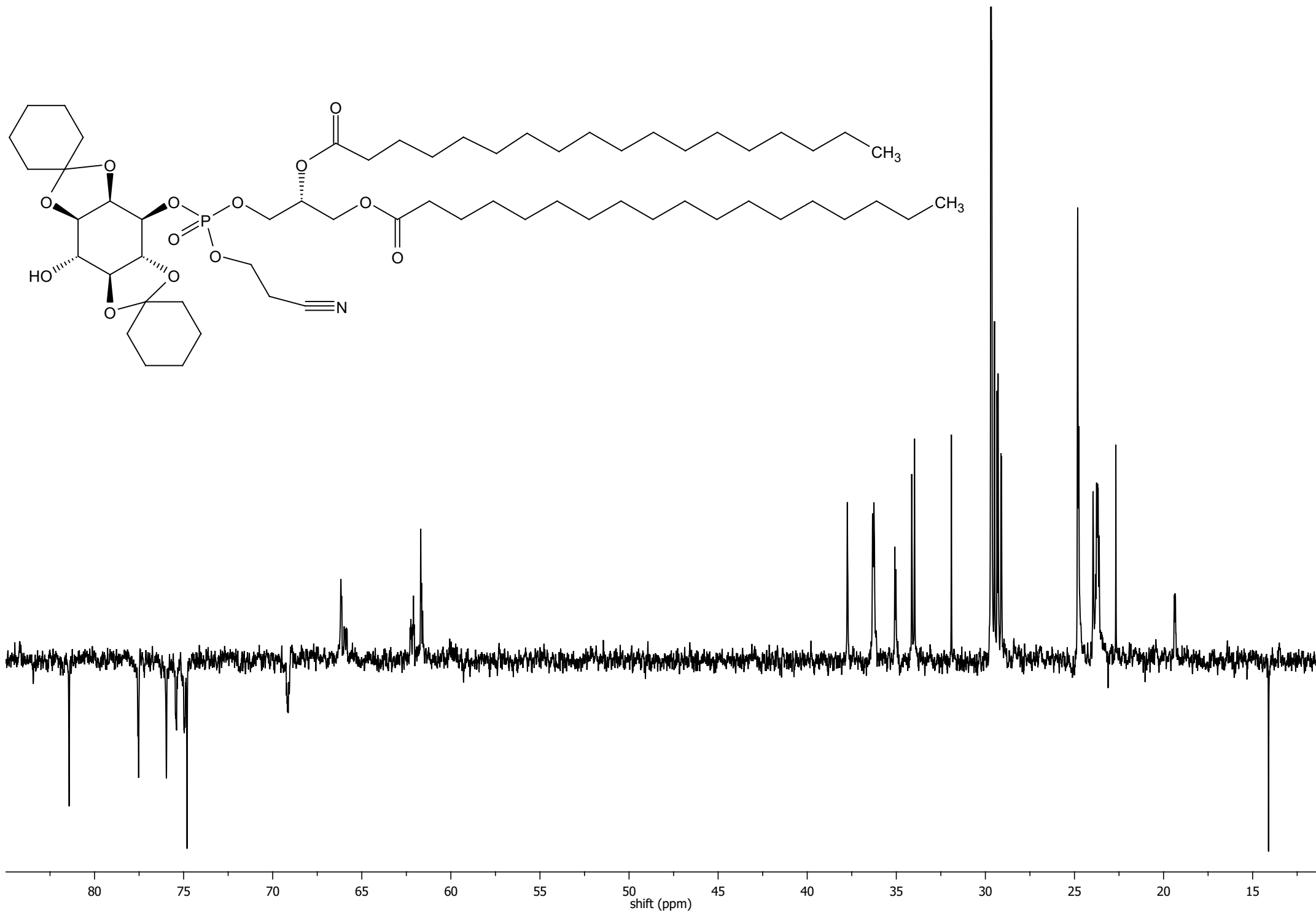
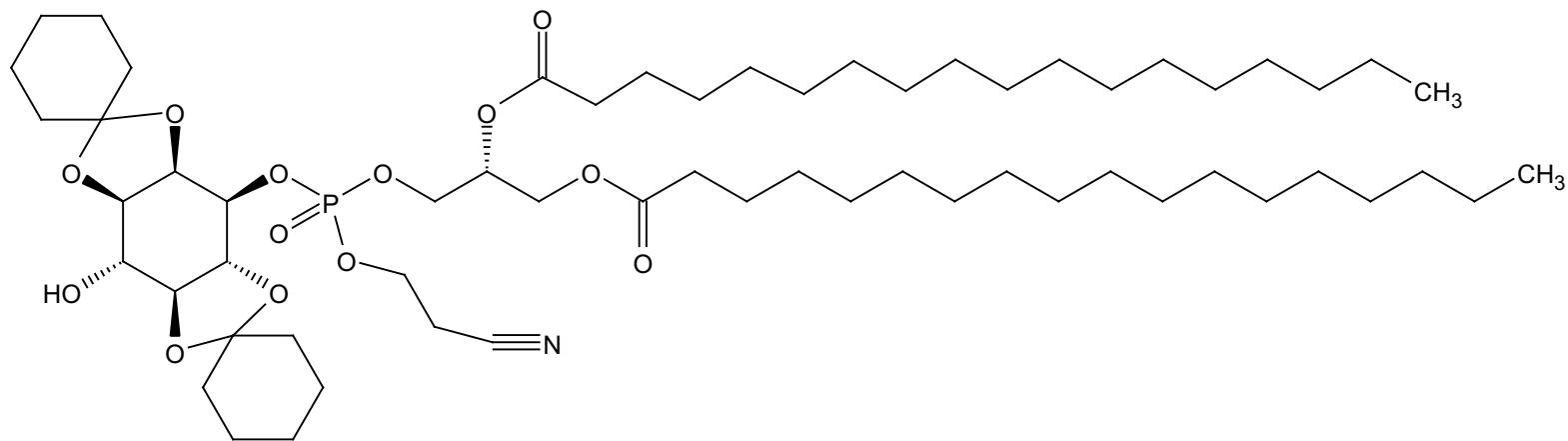
**1-*O*-[(Cyanoethoxy)(*sn*-1,2-*O*-distearoylglyceryloxy) phosphoryl]-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 23a.**

HRMS (ESI+)  $m/z$  found  $[M+H]^+$  1,080.7462,  $C_{60}H_{107}NO_{13}P$  requires 1,080.7480.

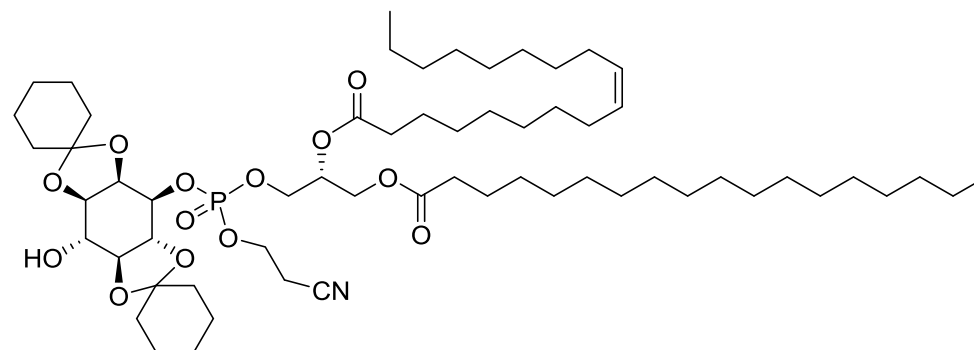






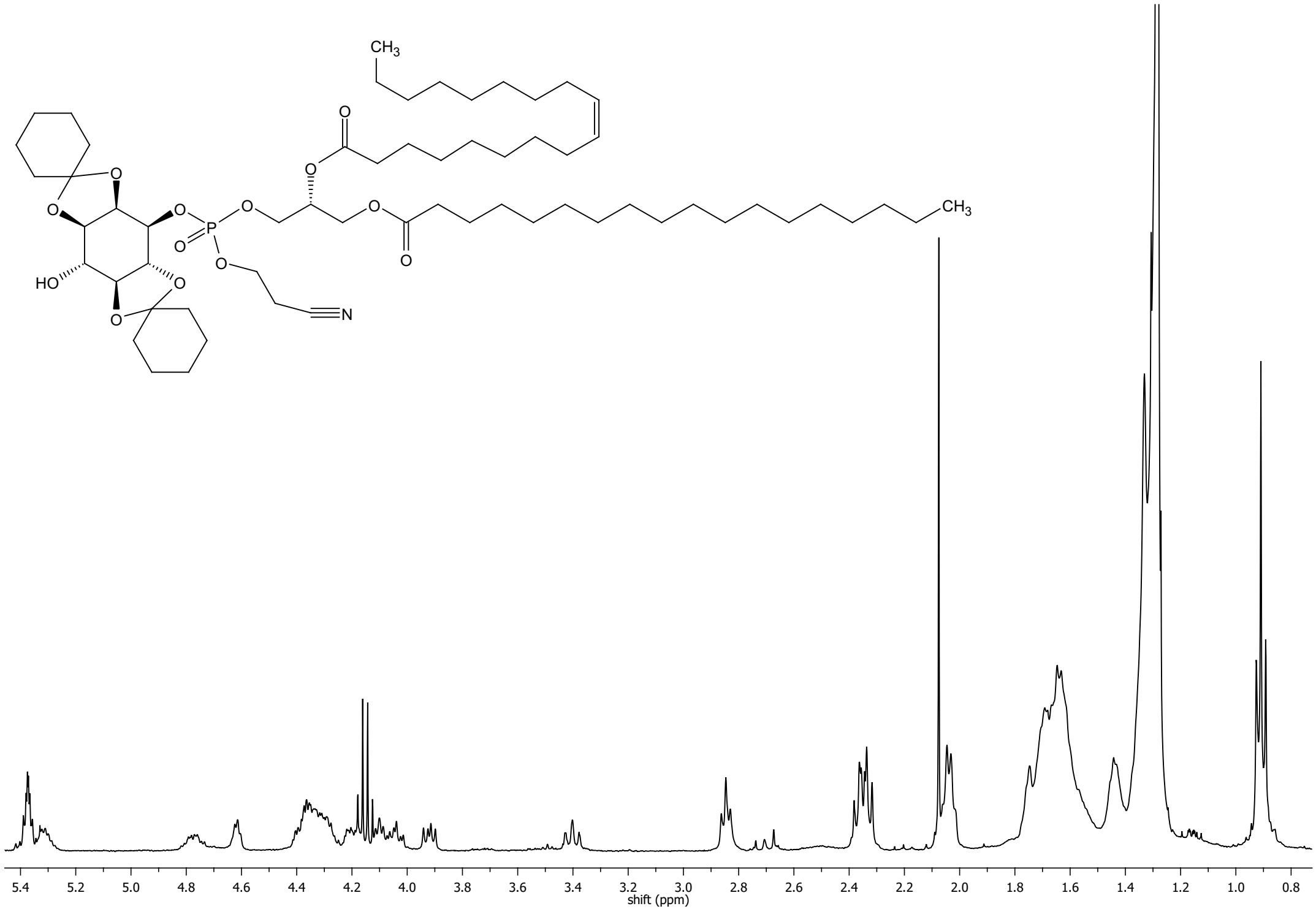
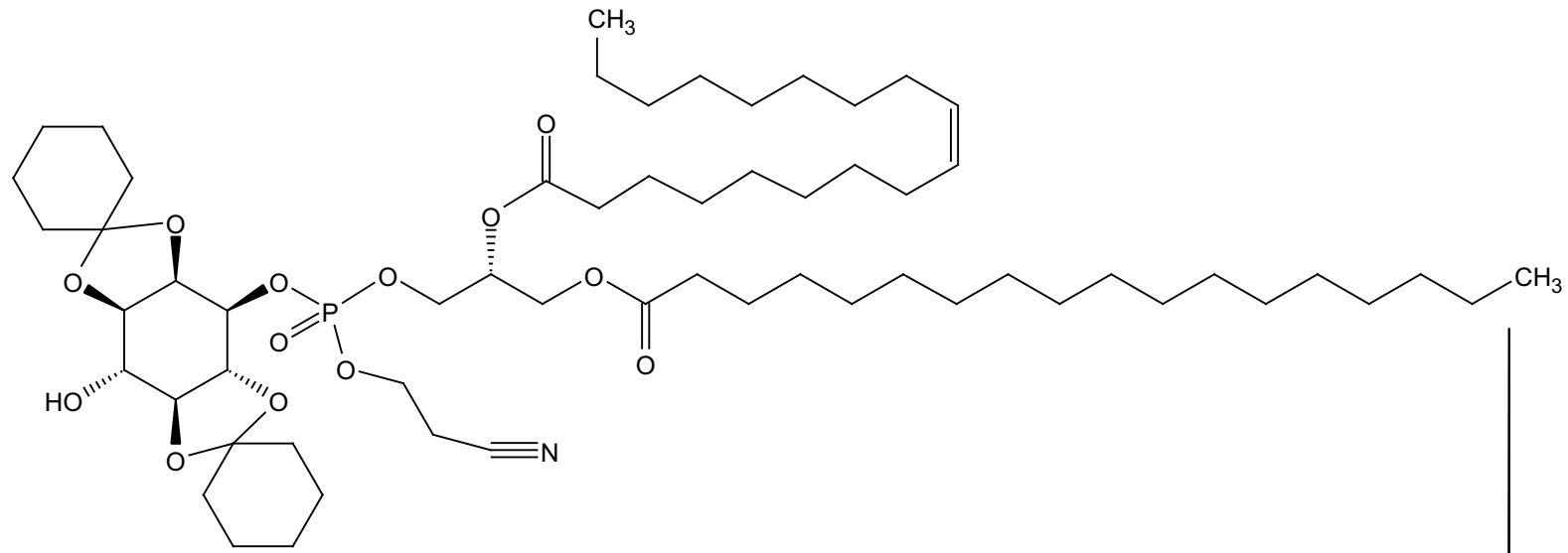


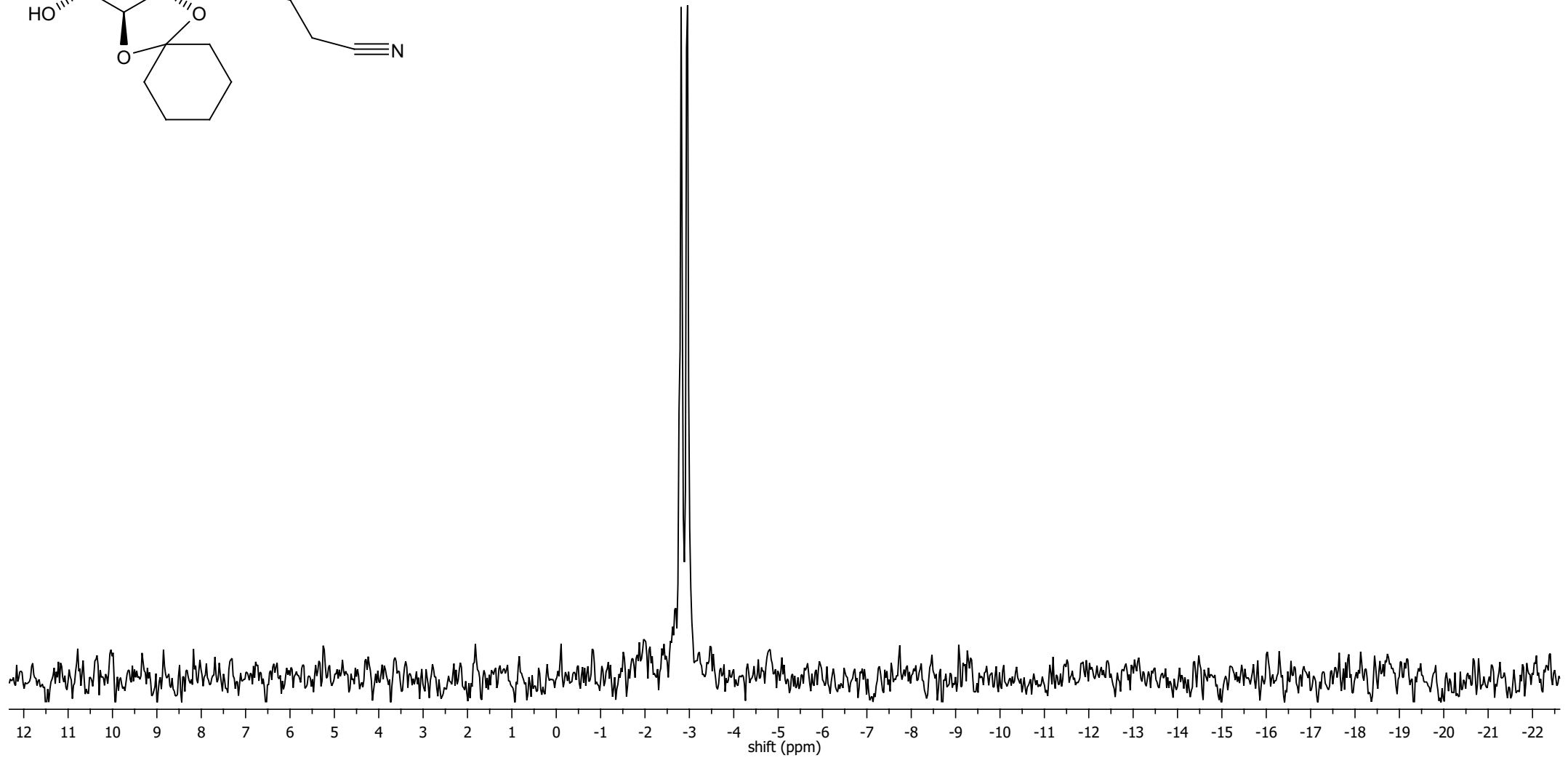
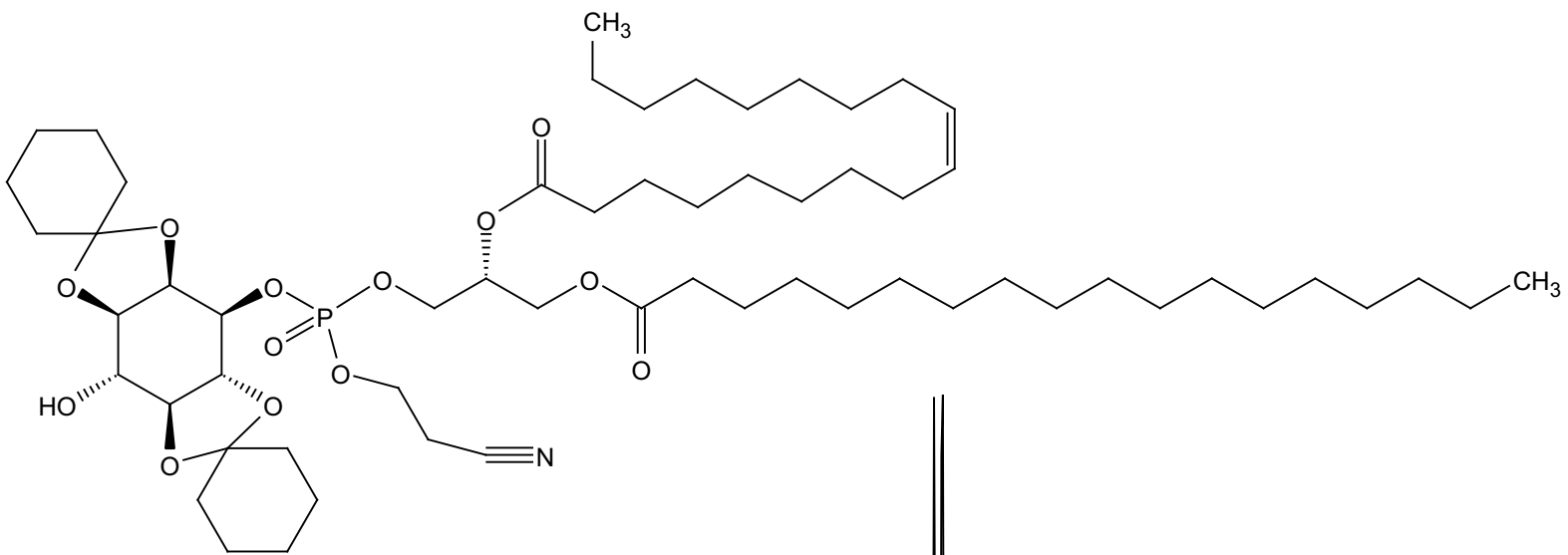


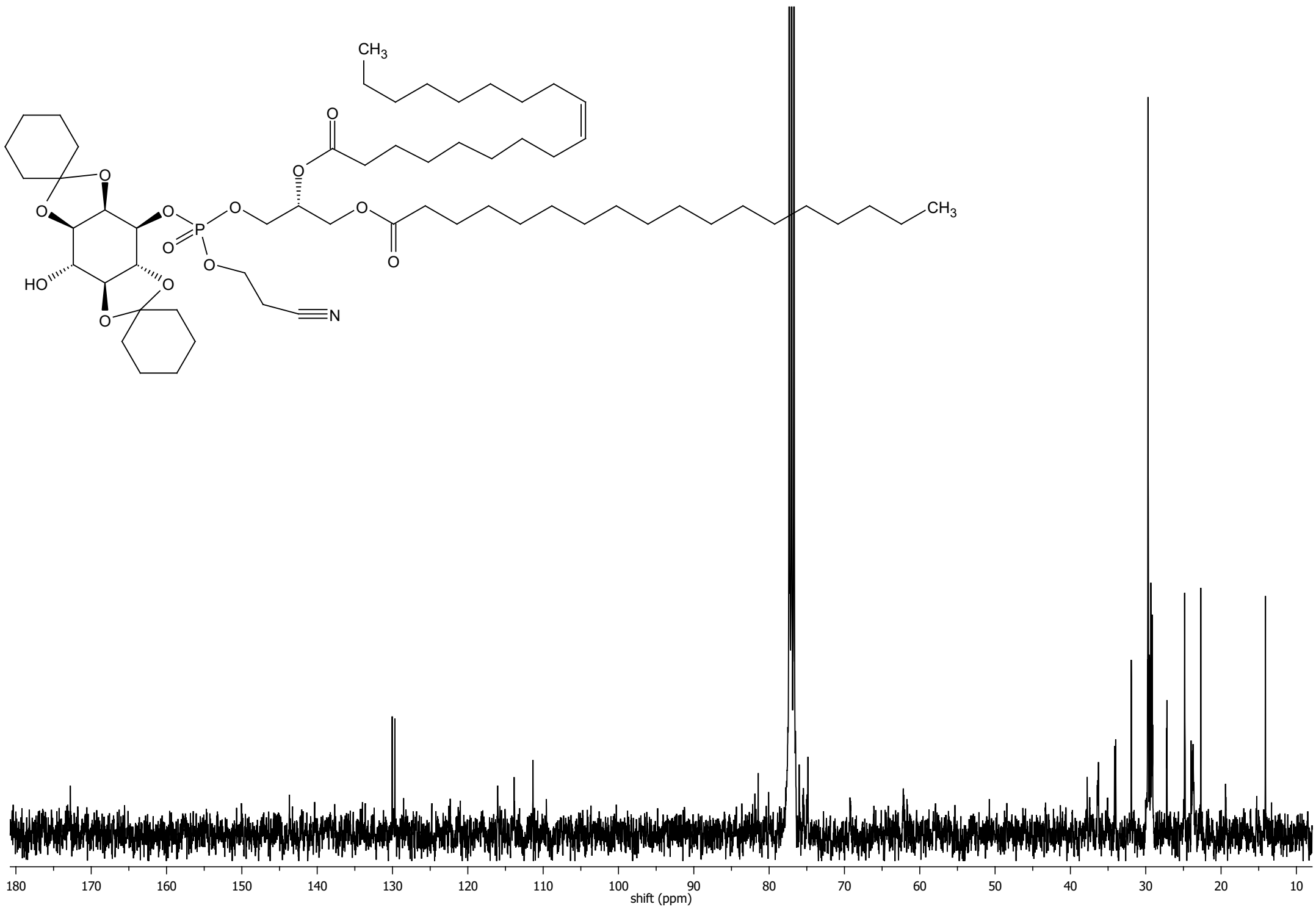
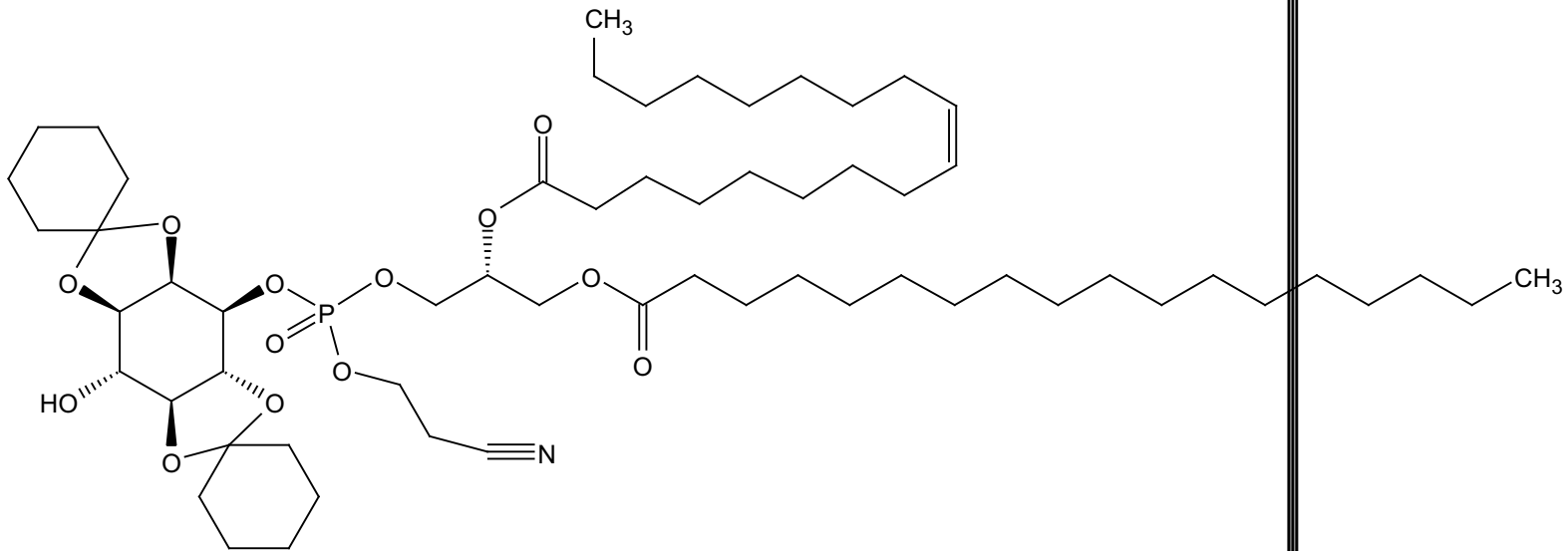


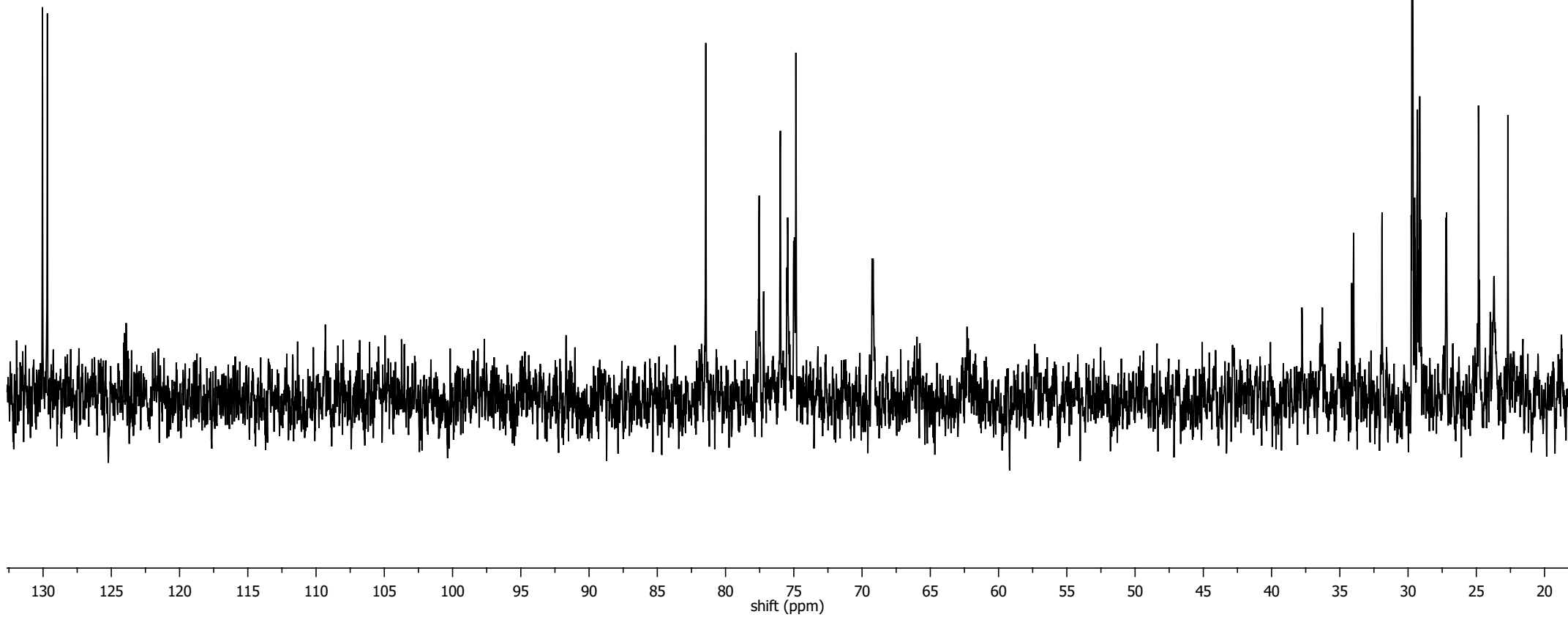
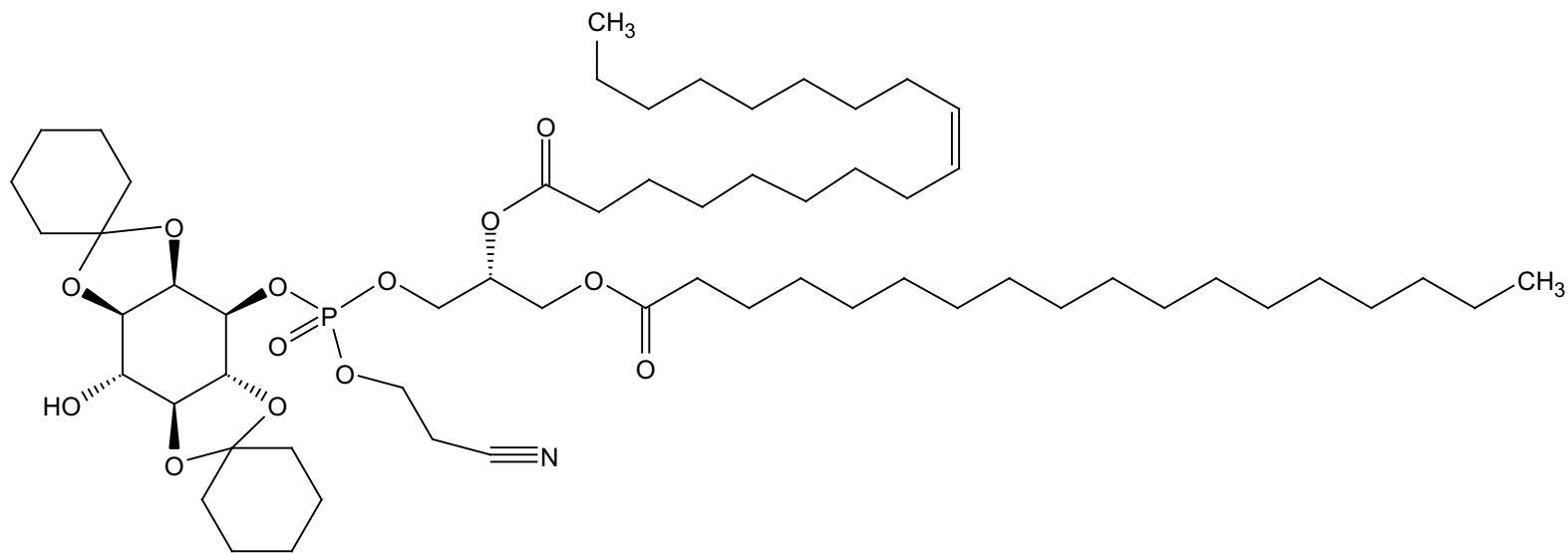
**1-*O*-[(Cyanoethoxy)(*sn*-1-*O*-stearoyl-2-oleoylglyceroyloxy) phosphoryl]-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 23b.**

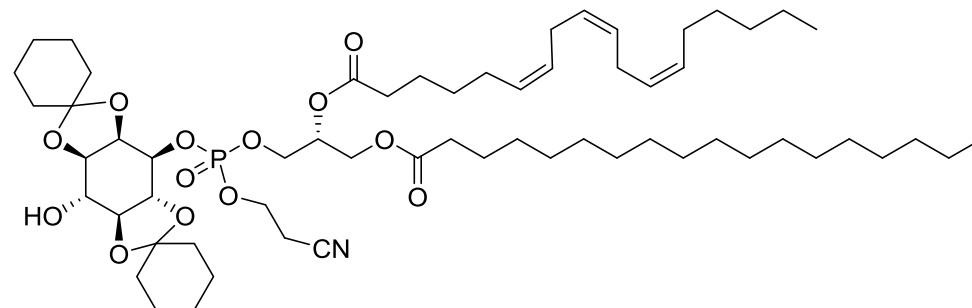
HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 1,078.7323$ ,  $C_{60}H_{105}NO_{13}P$  requires 1,078.7324.





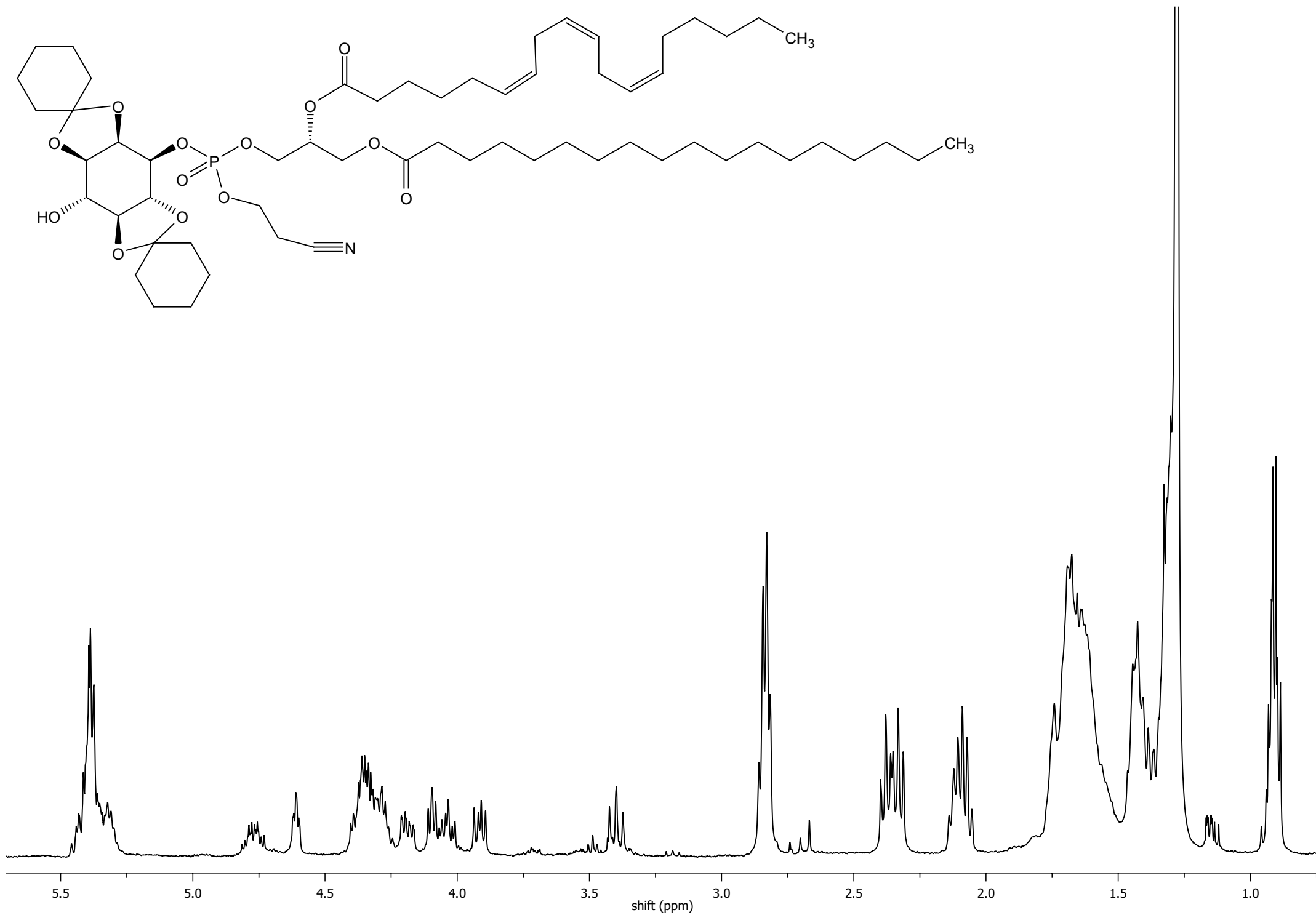
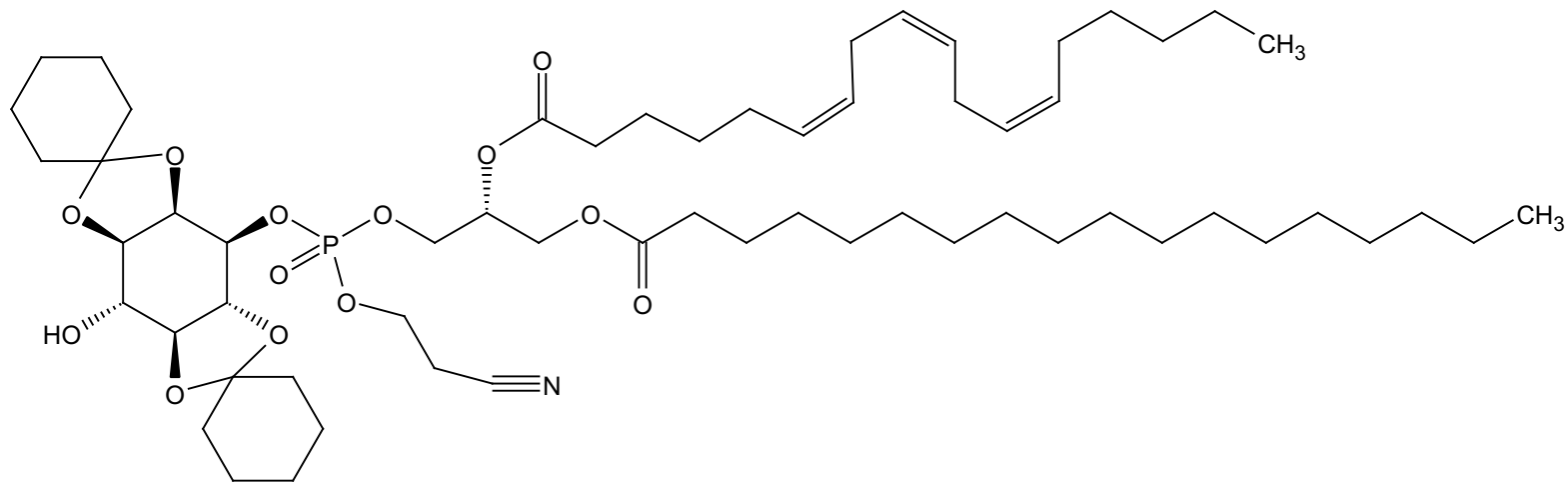


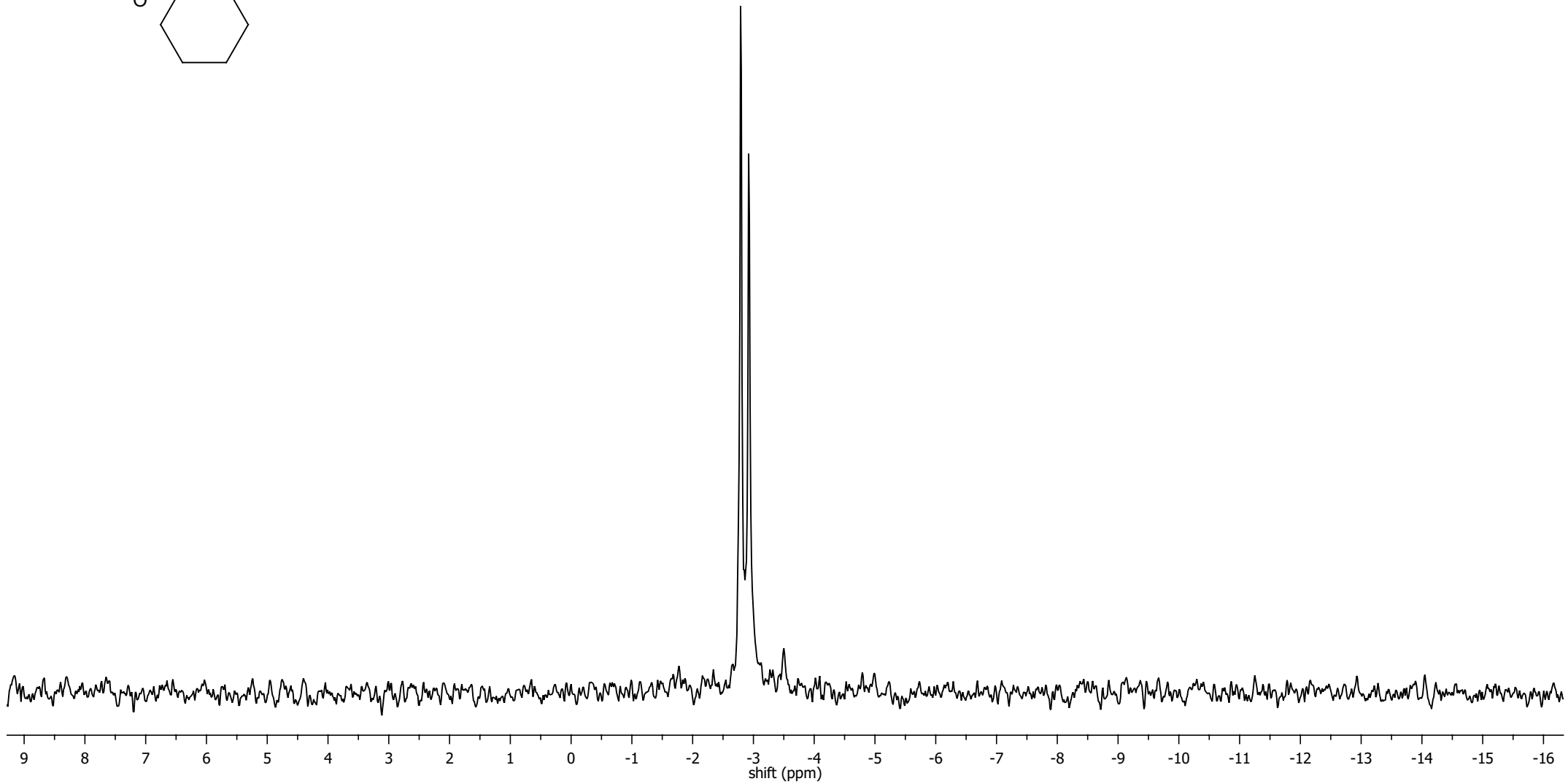
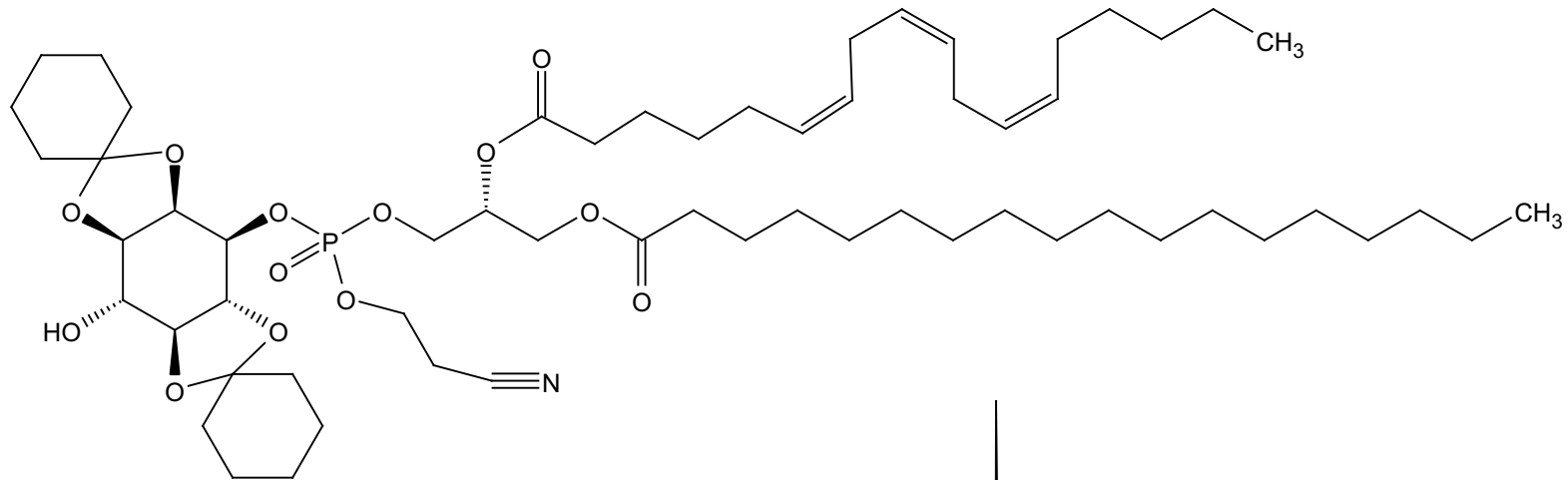




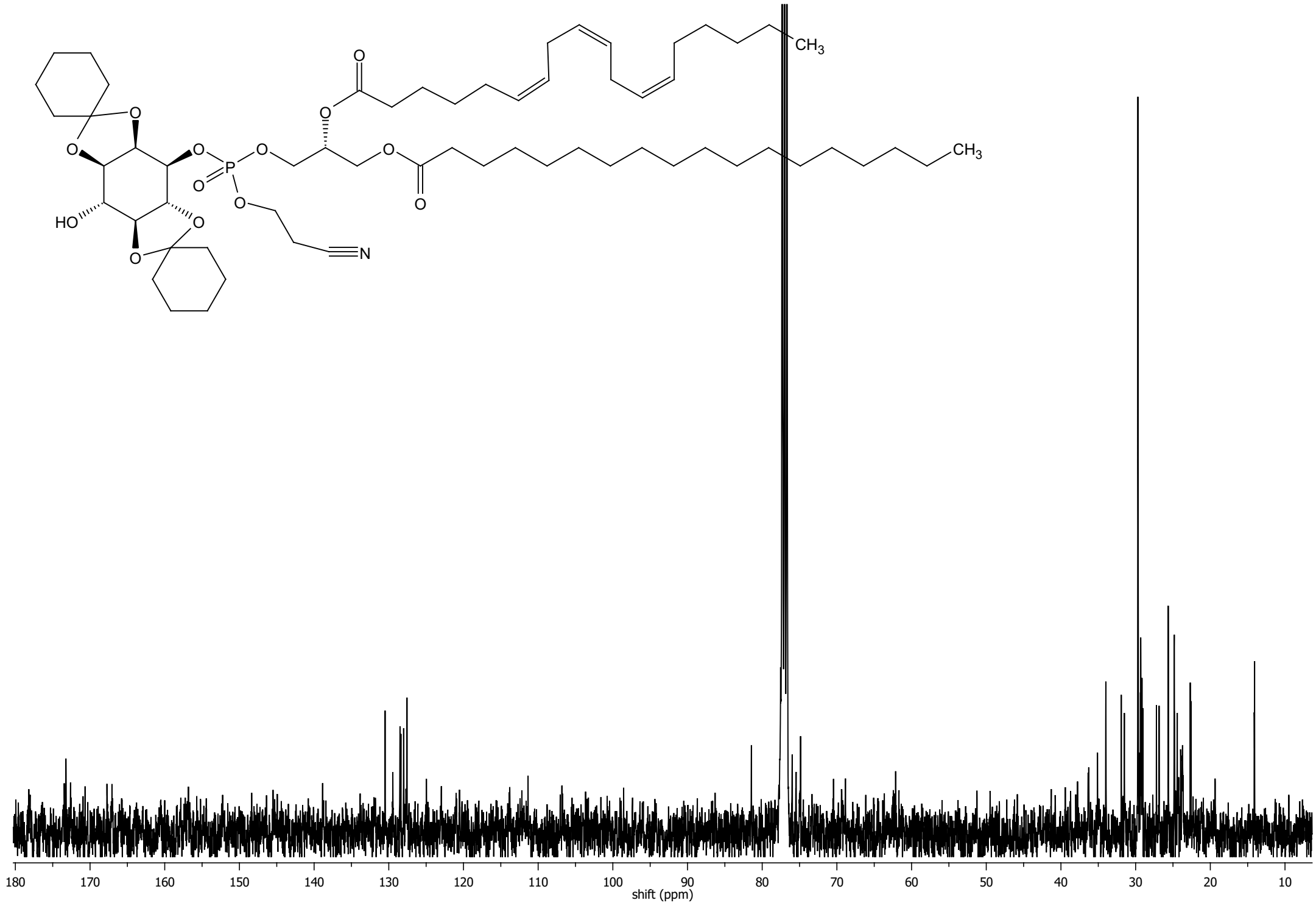
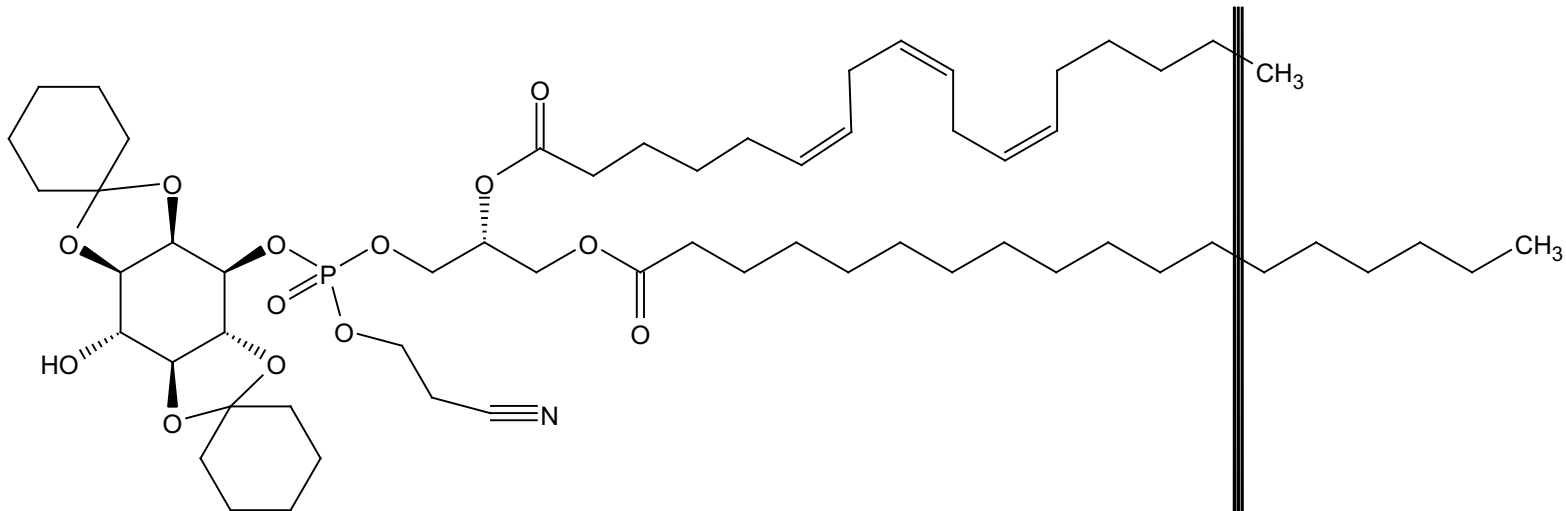
**1-O-[(Cyanoethoxy)(*sn*-1-O-stearoyl-2-O- $\gamma$ -linolenylglyceryloxy)phosphoryl]-(2,3)(5,6)-O-dicyclohexylidene-*myo*-inositol, 23c.**

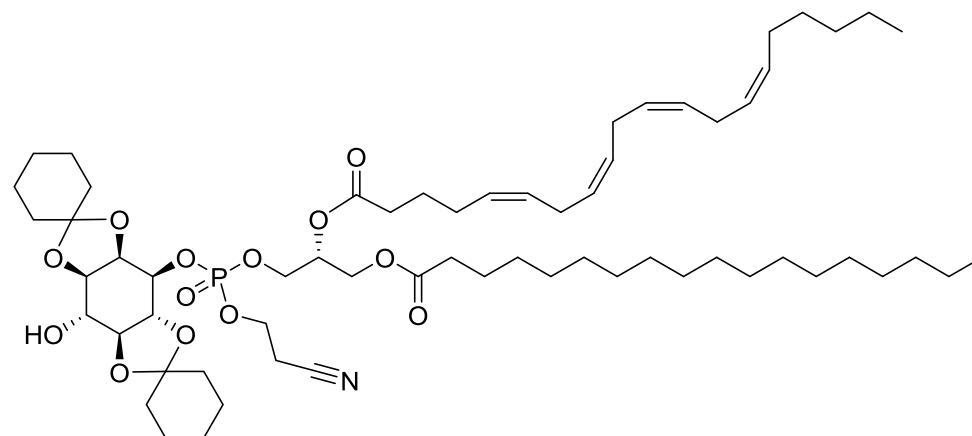
HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 1,074.7007$ ,  $C_{60}H_{101}NO_{13}P$  requires 1,074.7011.





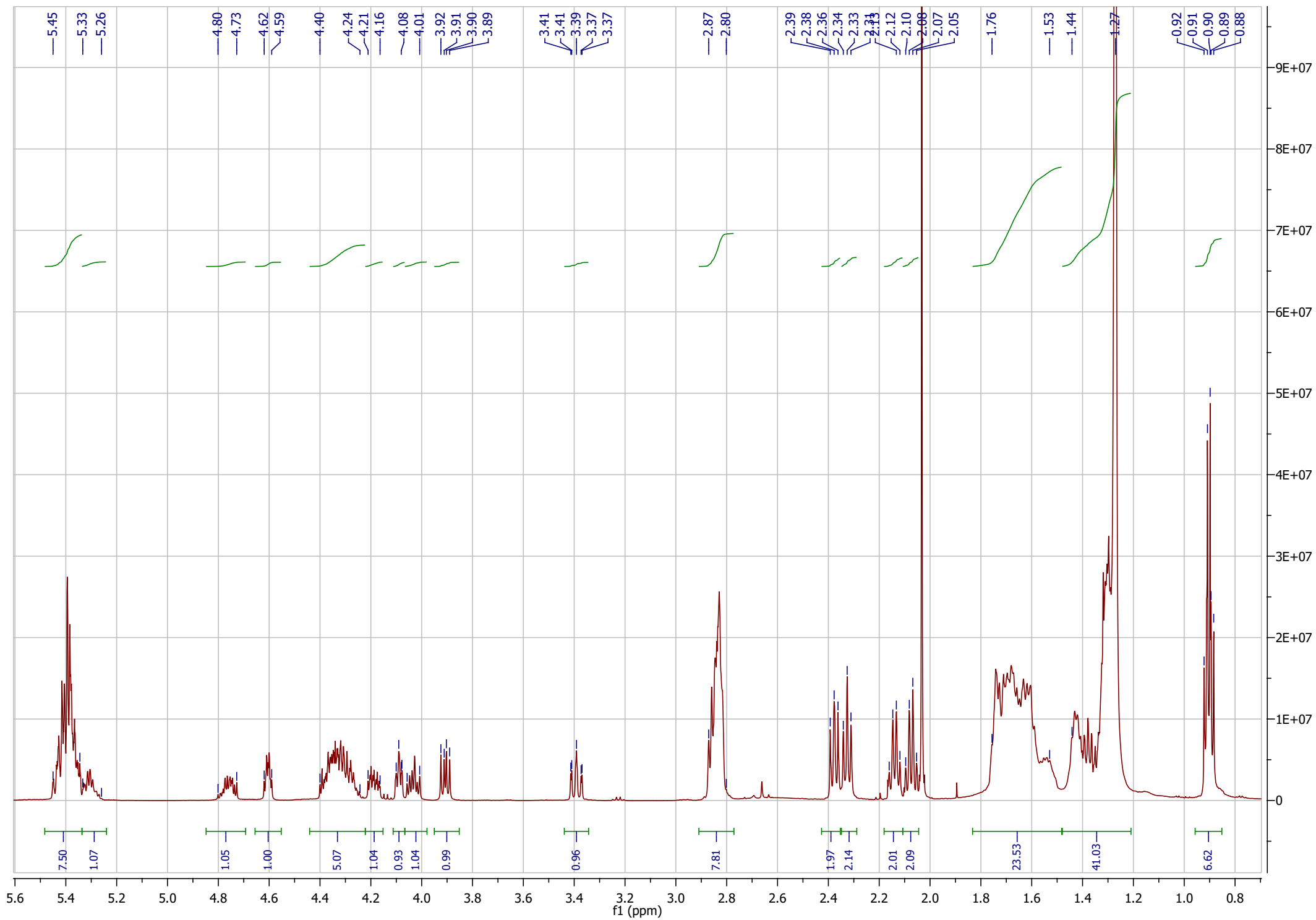


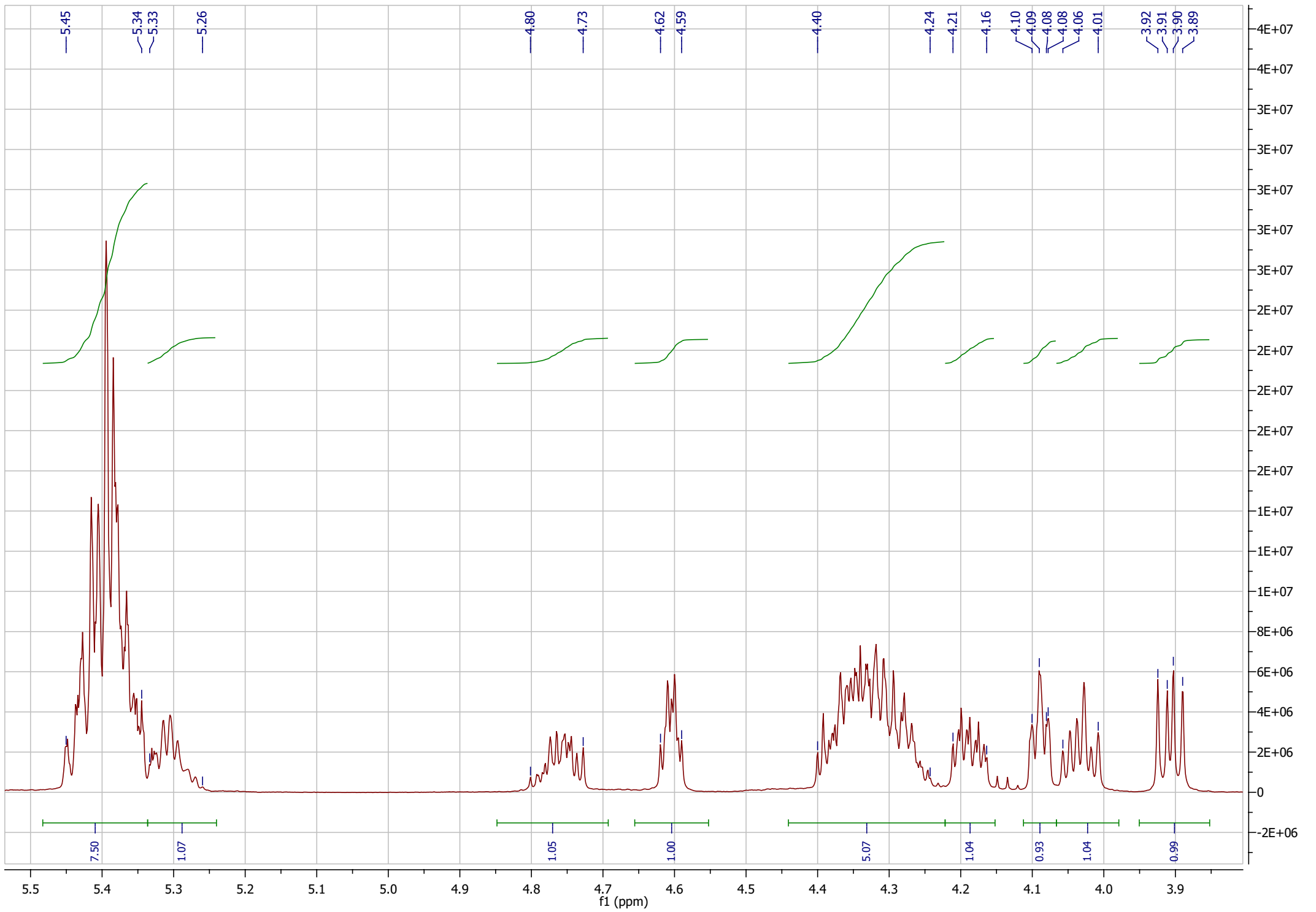


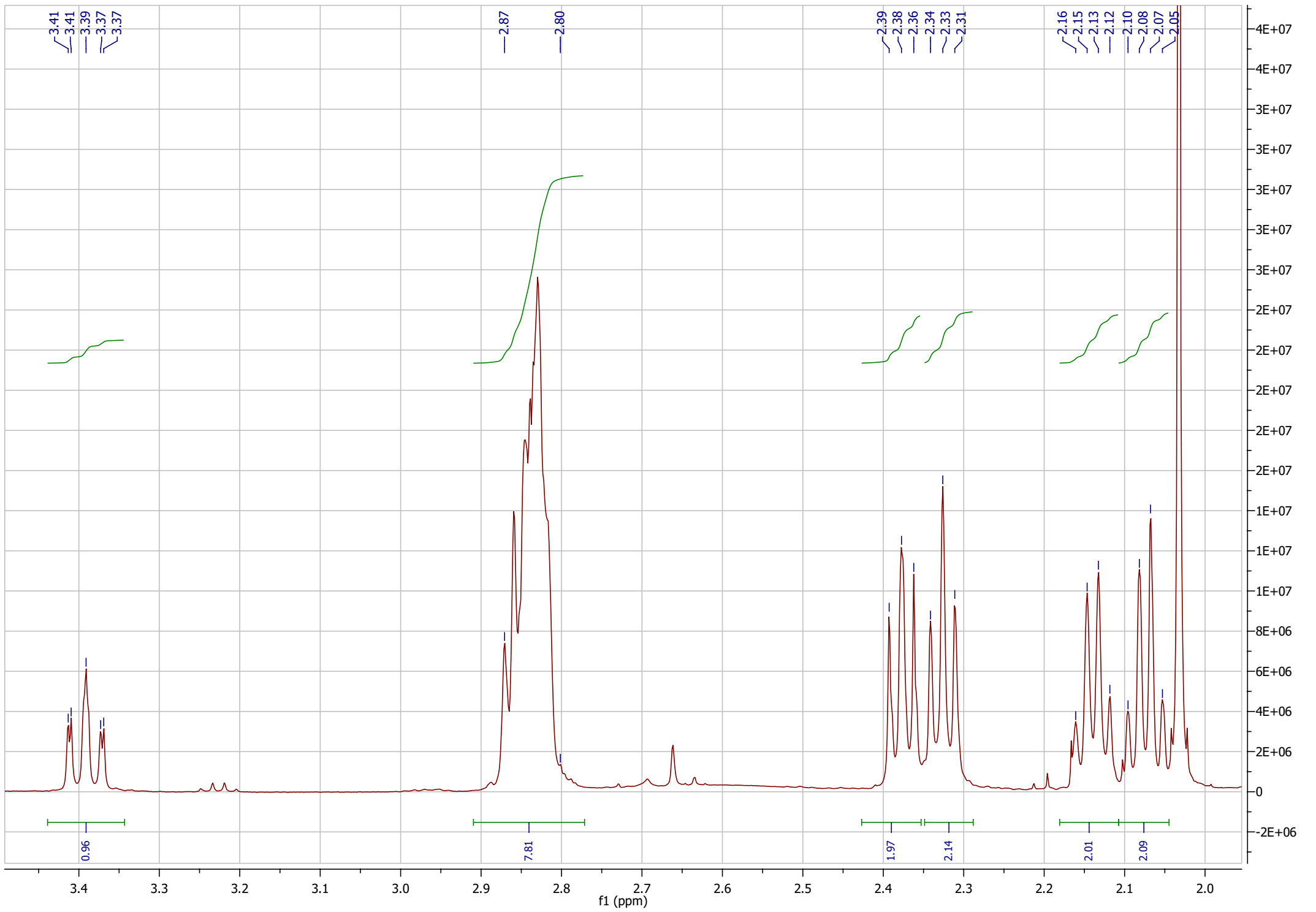


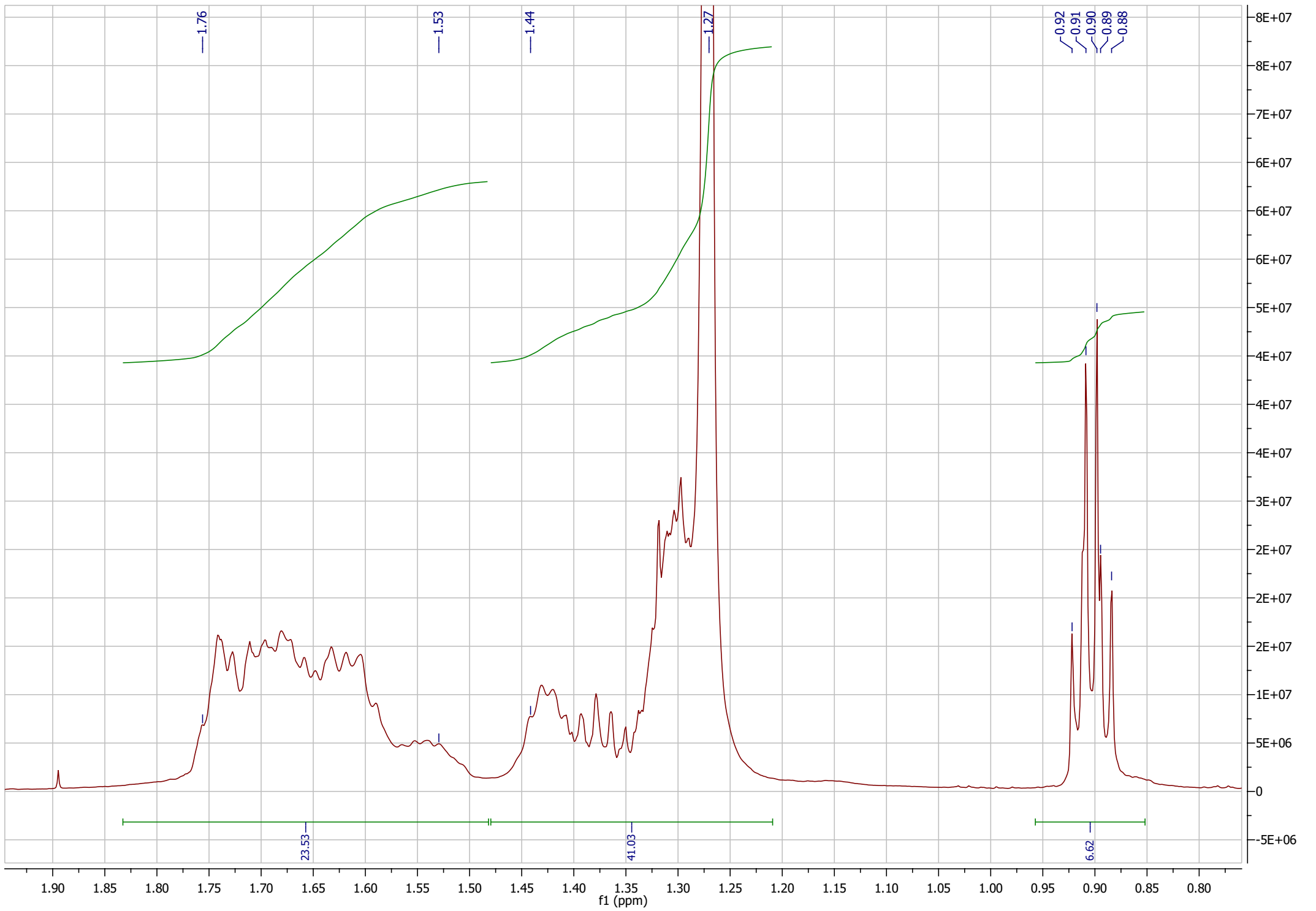
**1-O-[(Cyanoethoxy)(*sn*-1-O-stearoyl-2-O-arachidonoylglycer-3-yloxy)phosphoryl]-(2,3)(5,6)-O-dicyclohexylidene-*myo*-inositol, 23d.**

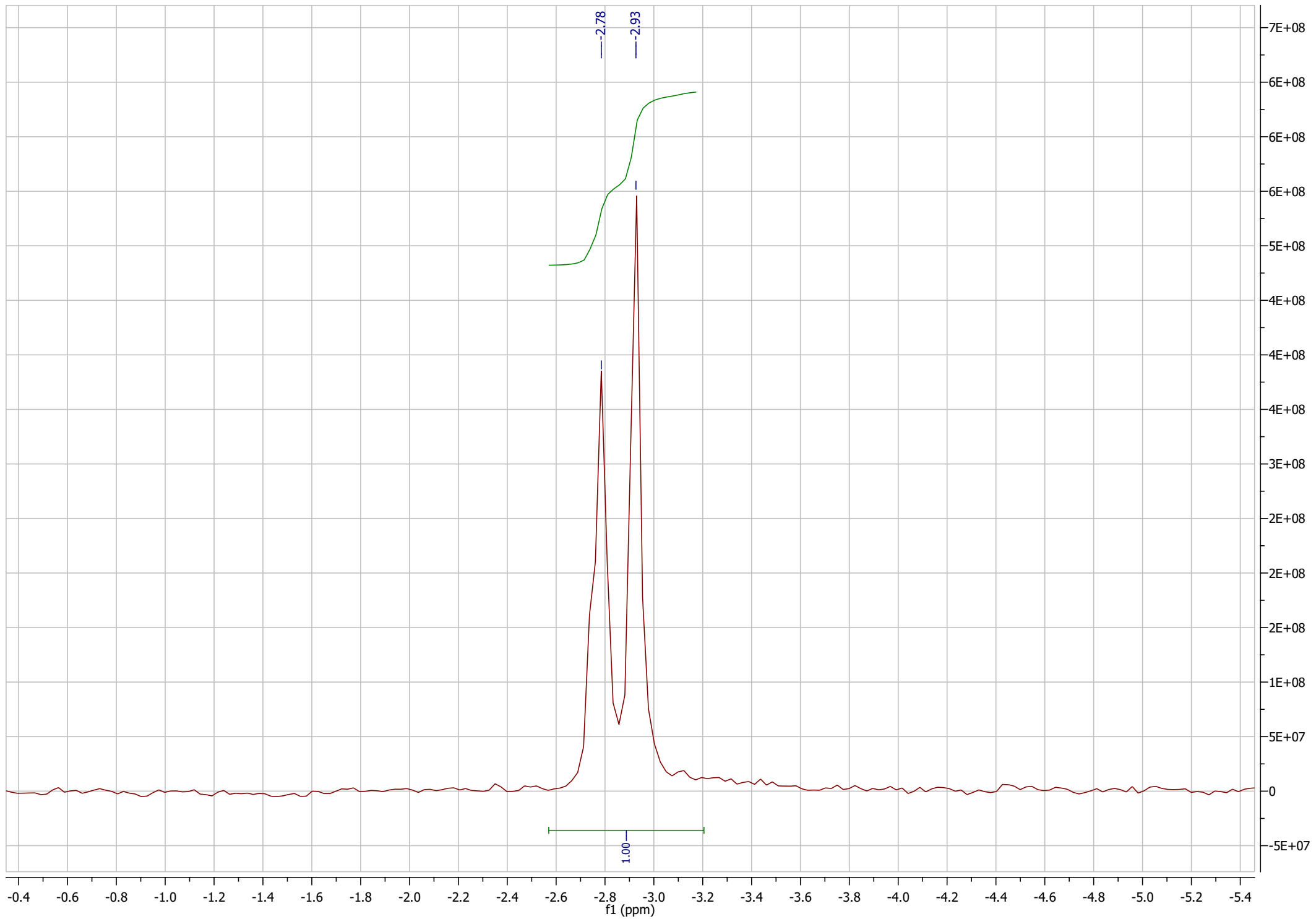
HRMS (ESI+)  $m/z$  found  $[M+Na]^+ = 1,122.7013$ ,  $C_{62}H_{102}NO_{13}PNa^+$  requires 1,122.6987.

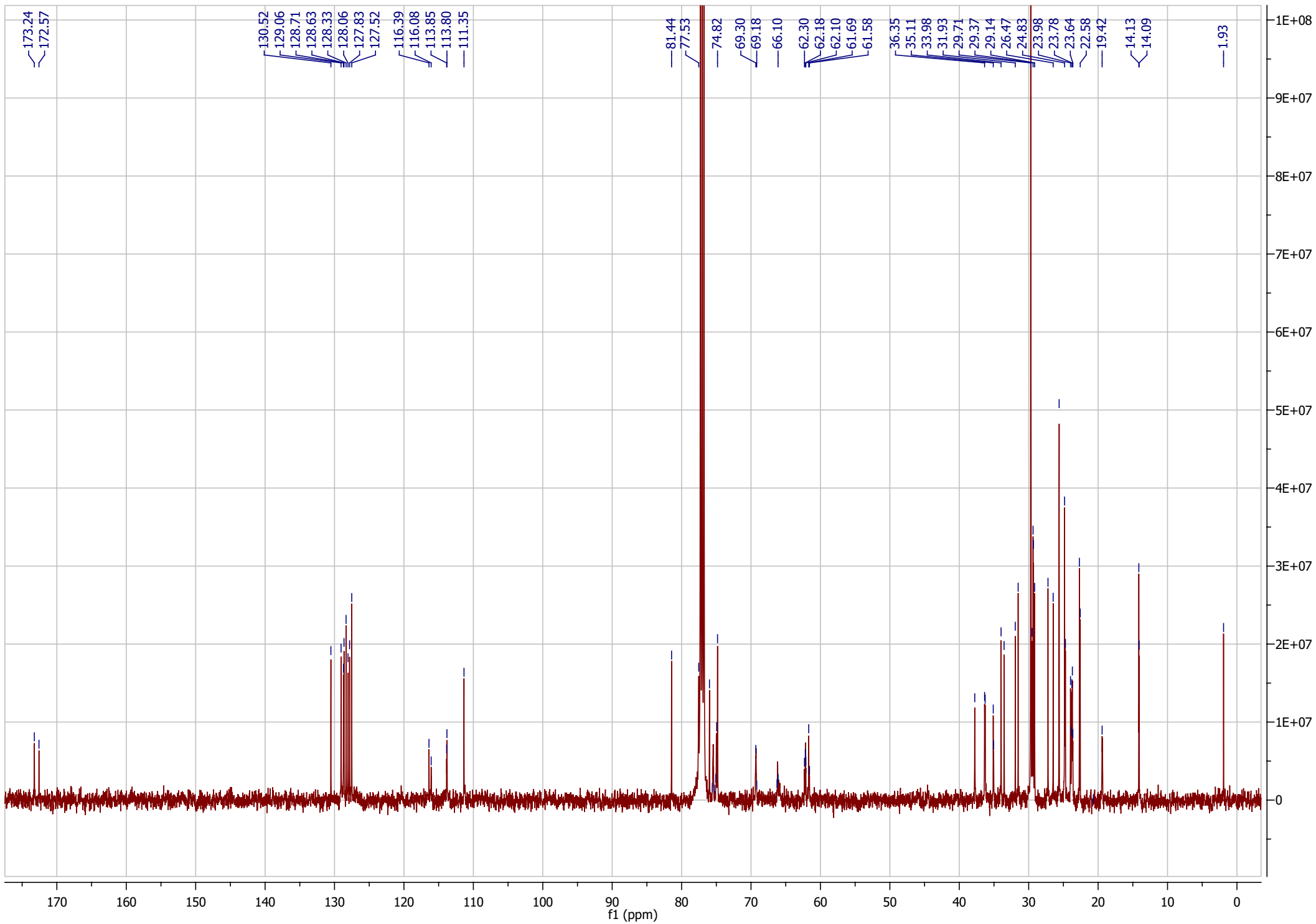




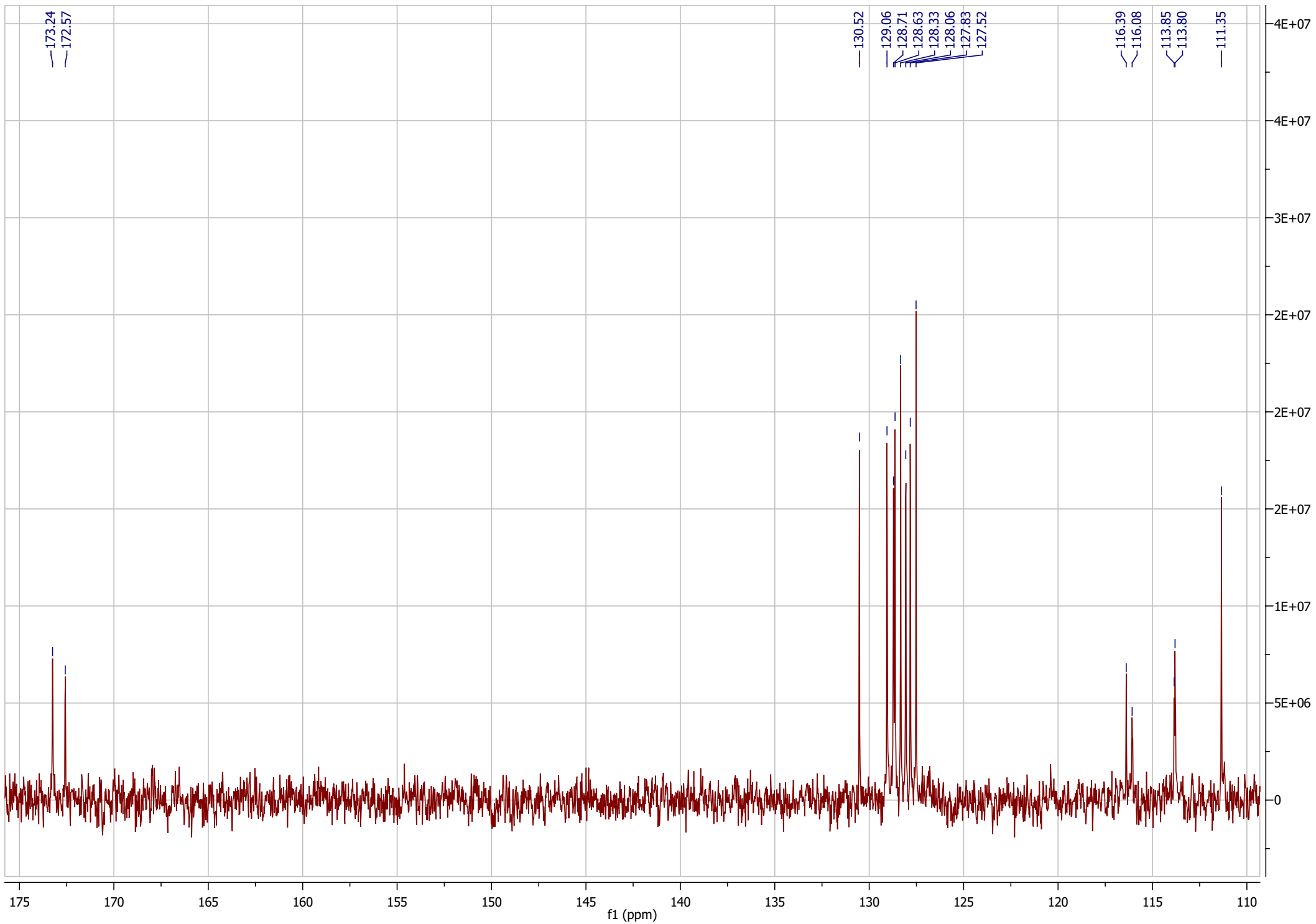


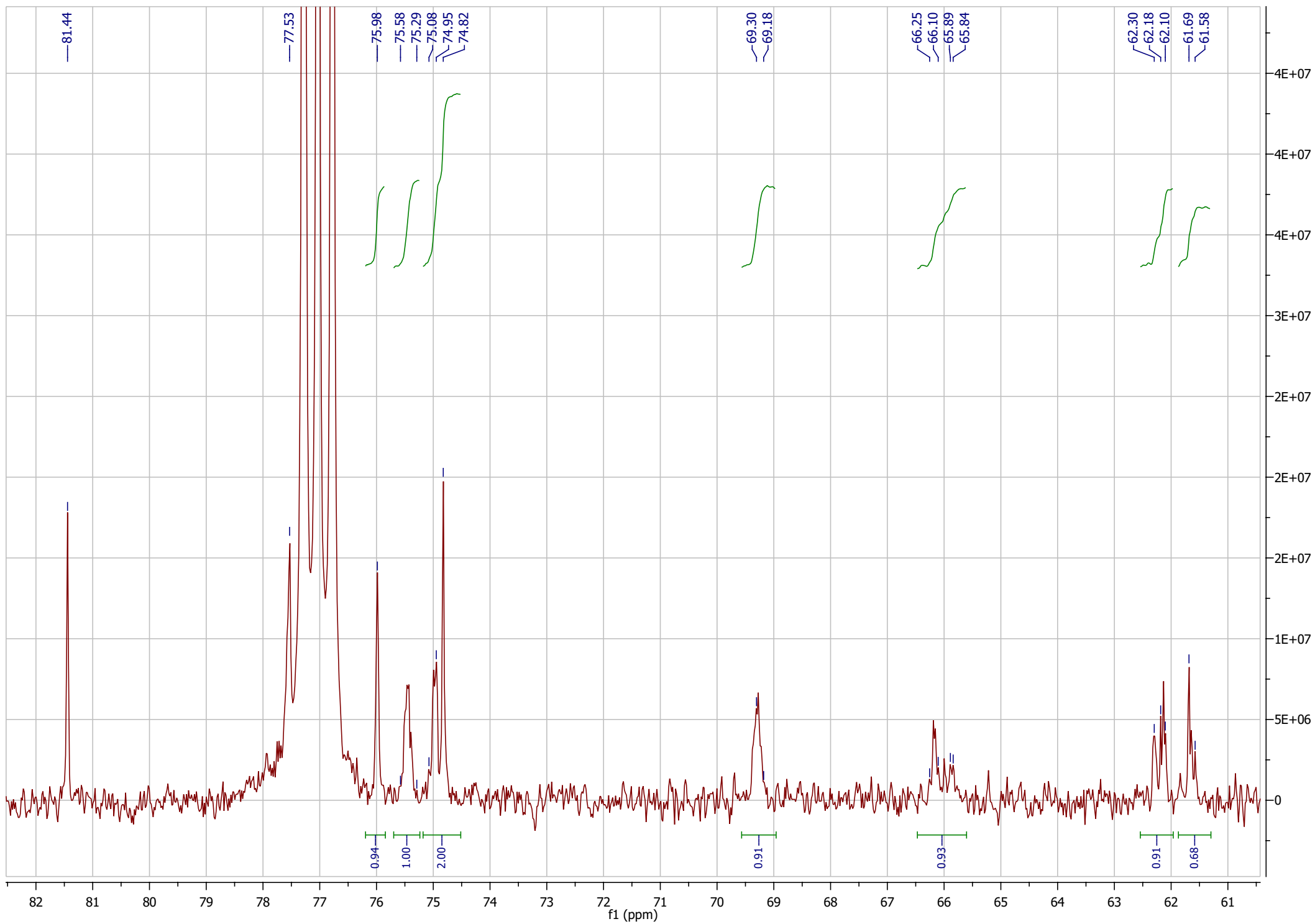


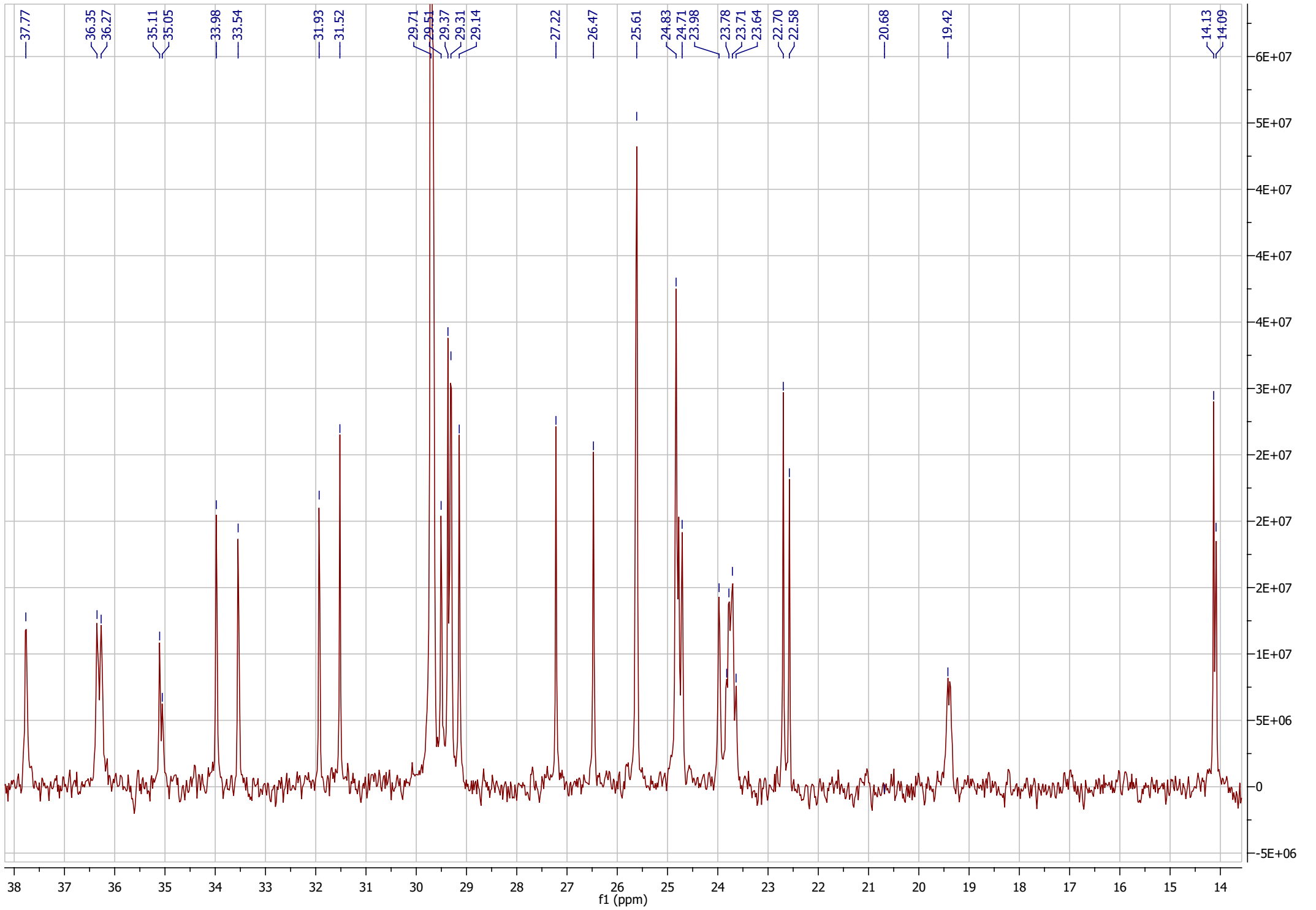


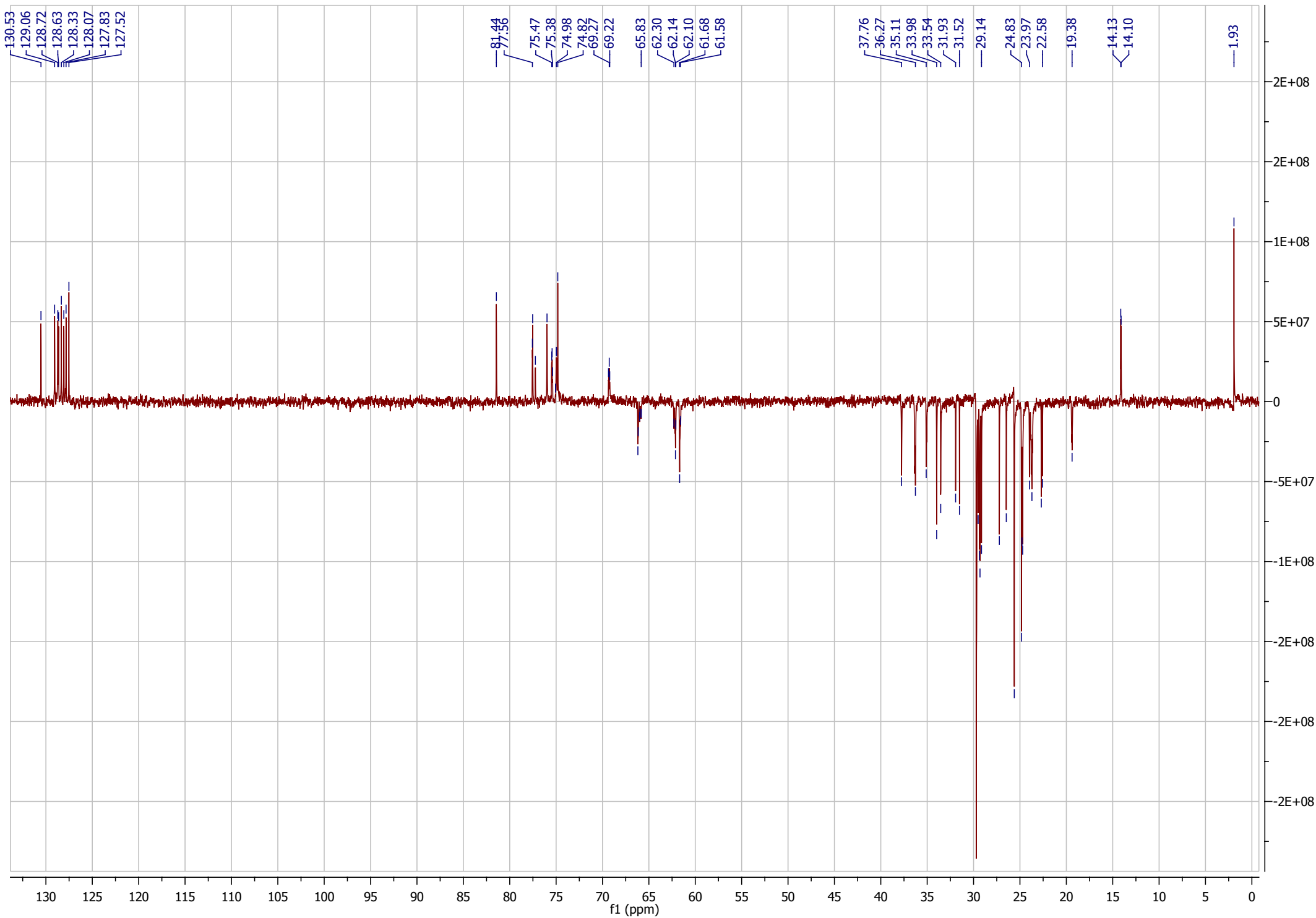


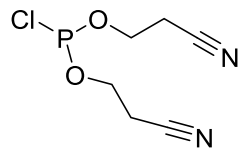








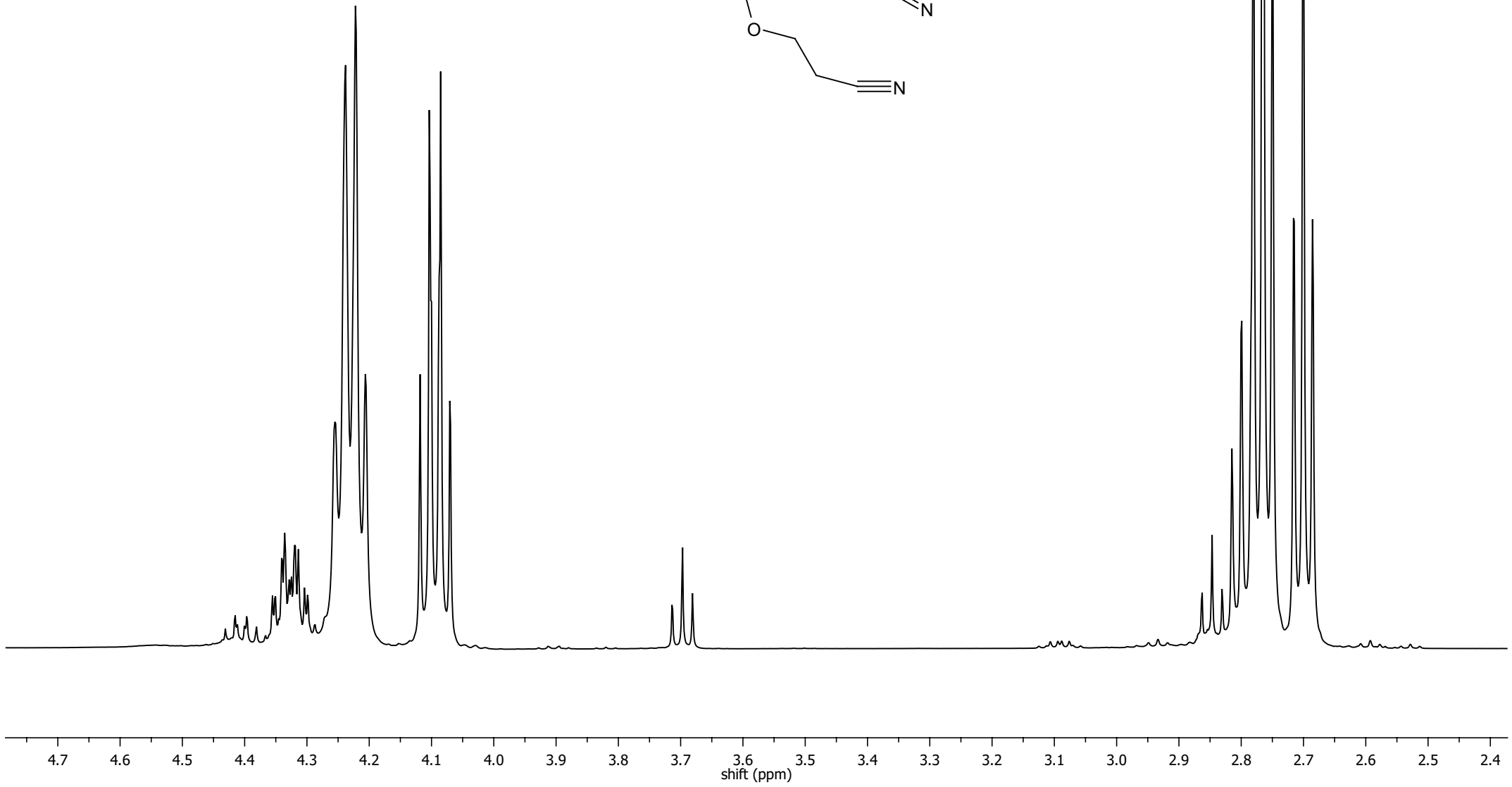
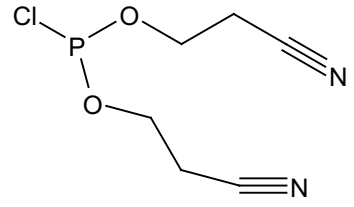


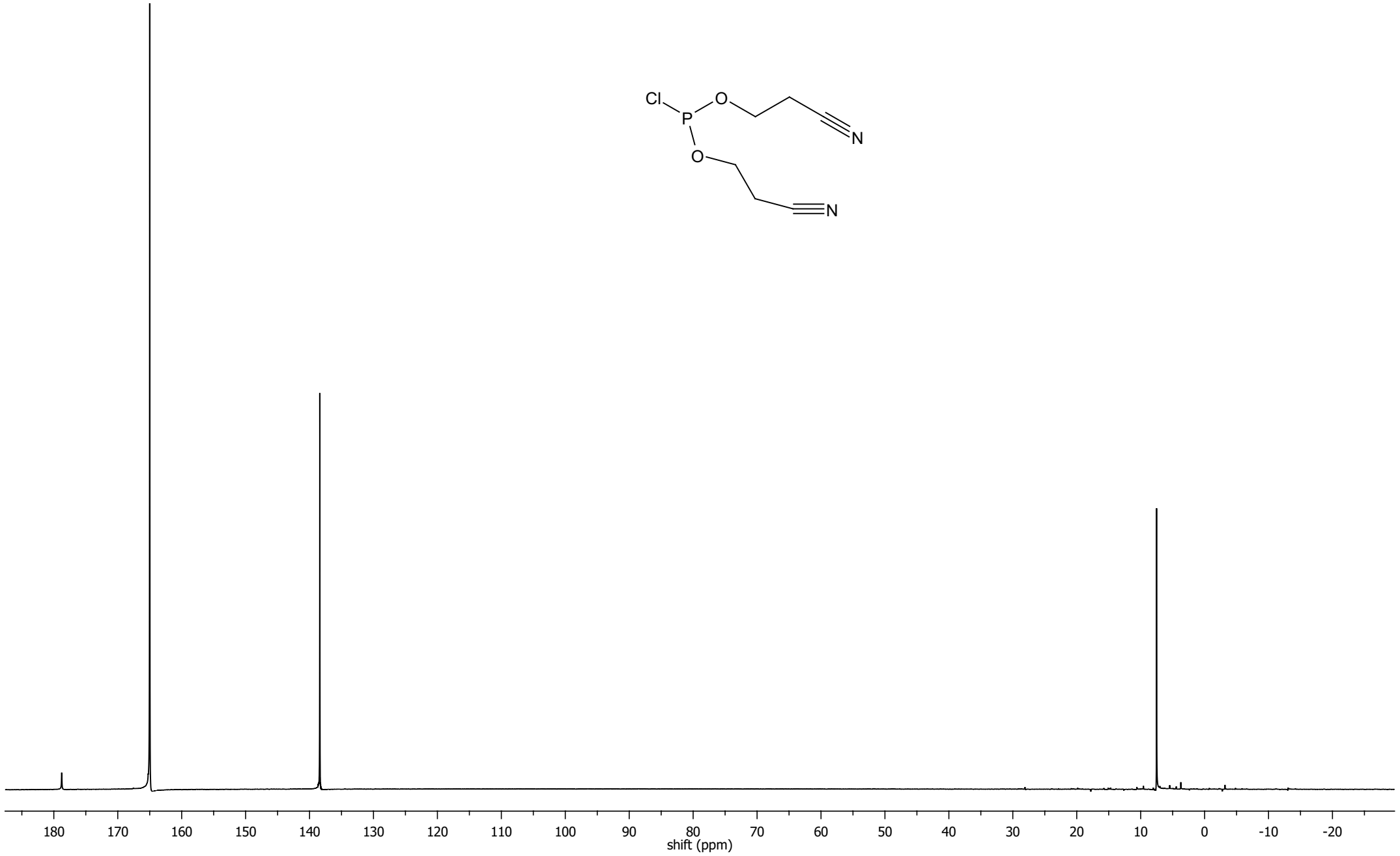
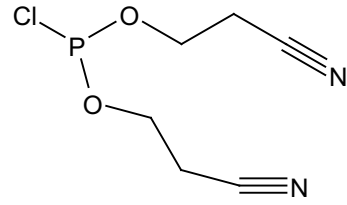


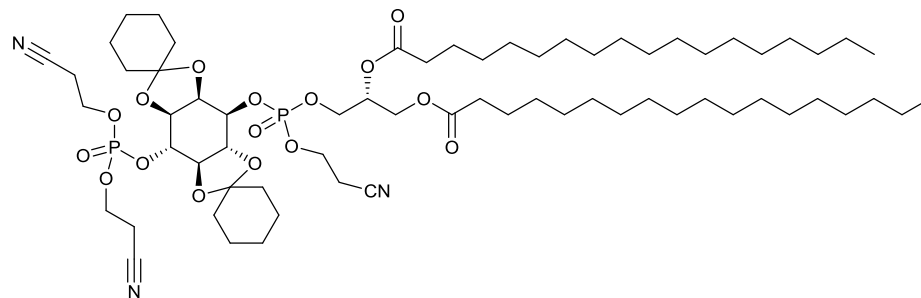
**Di(2-cyanoethyl) phosphorochloridite, 15.**

No Mass Spectrometry data available.

NB. Due to this compound's sensitivity to air and water, there is contamination with the *H*-phosphonate derivative. The reactivity of this reagent and the material isolated after phosphorylation reactions suggest that this contaminant was not present in the stocks made.



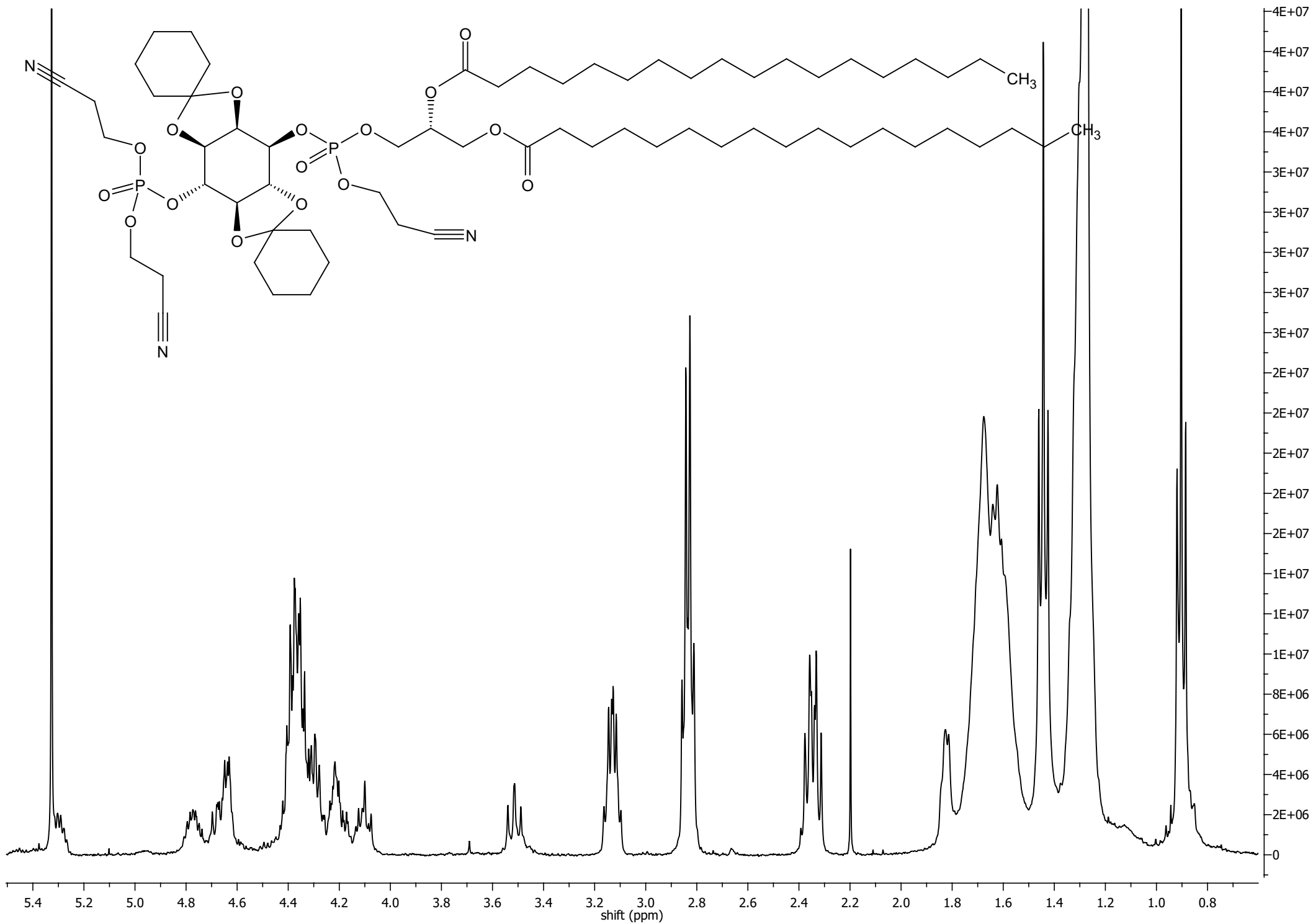


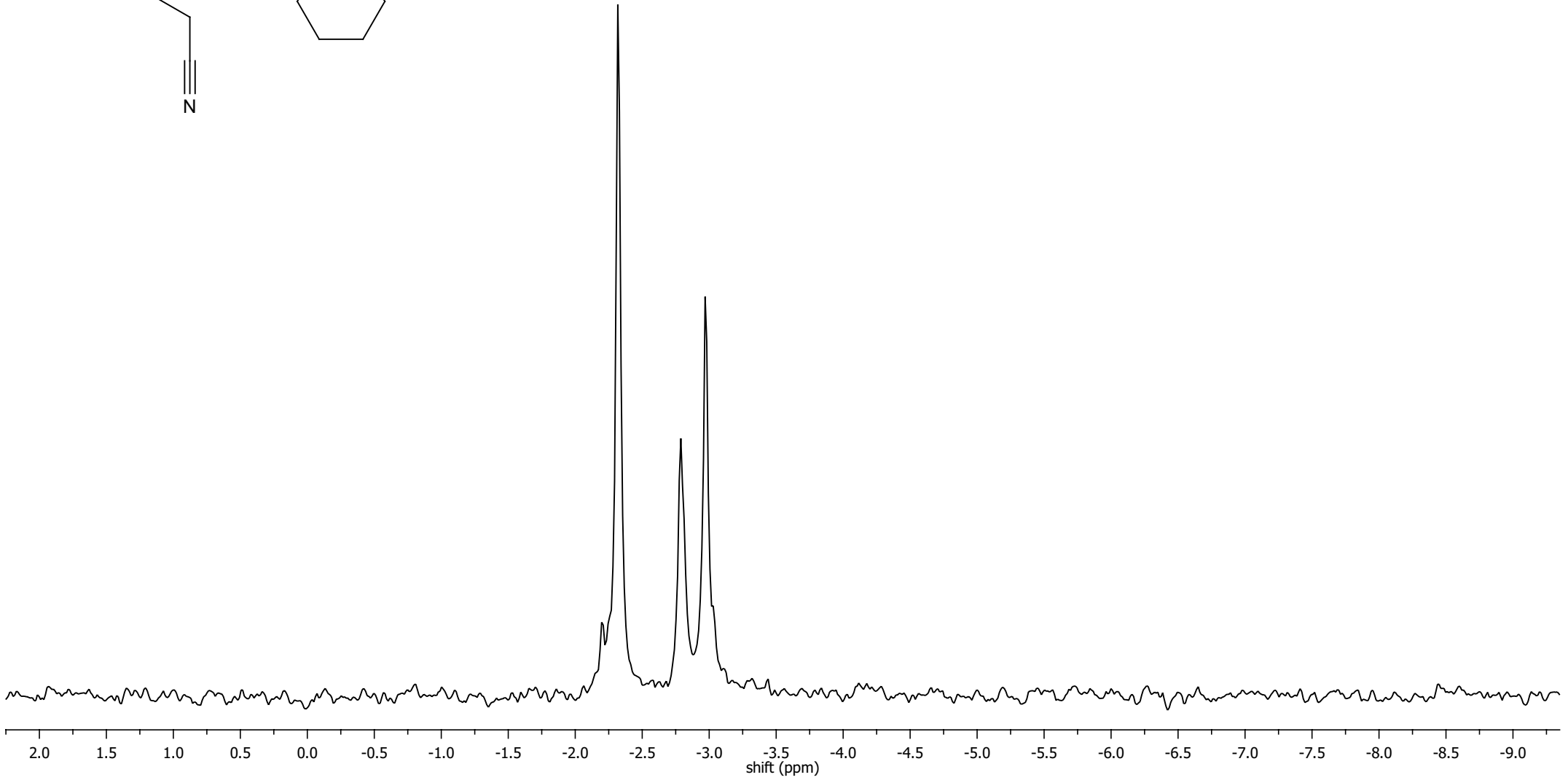
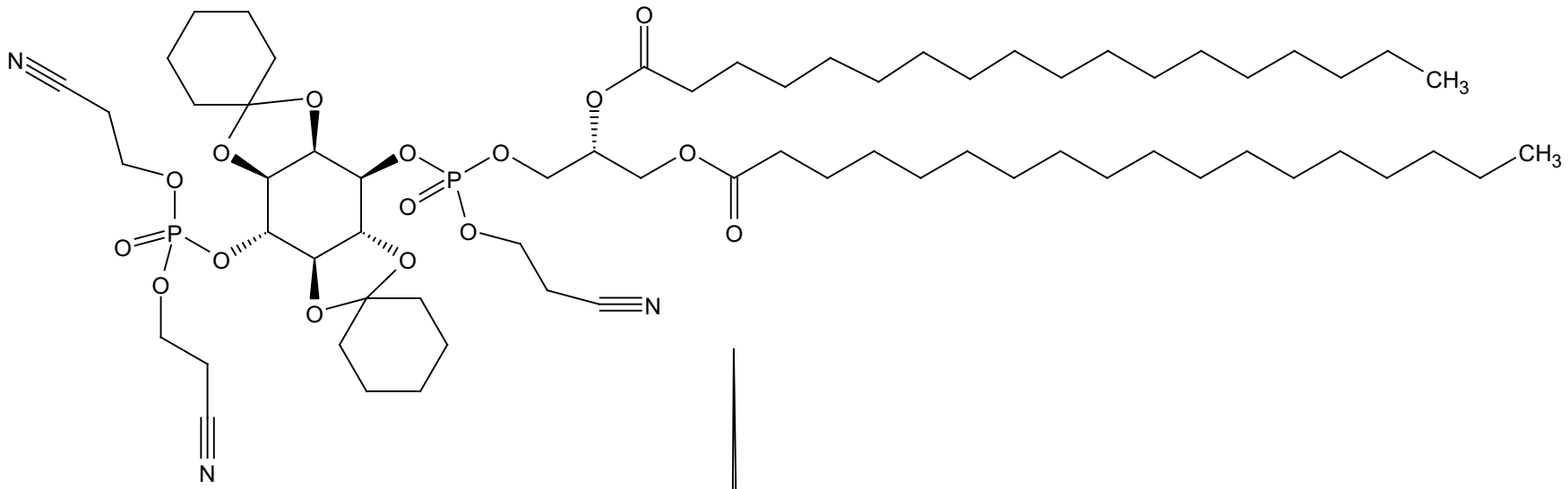


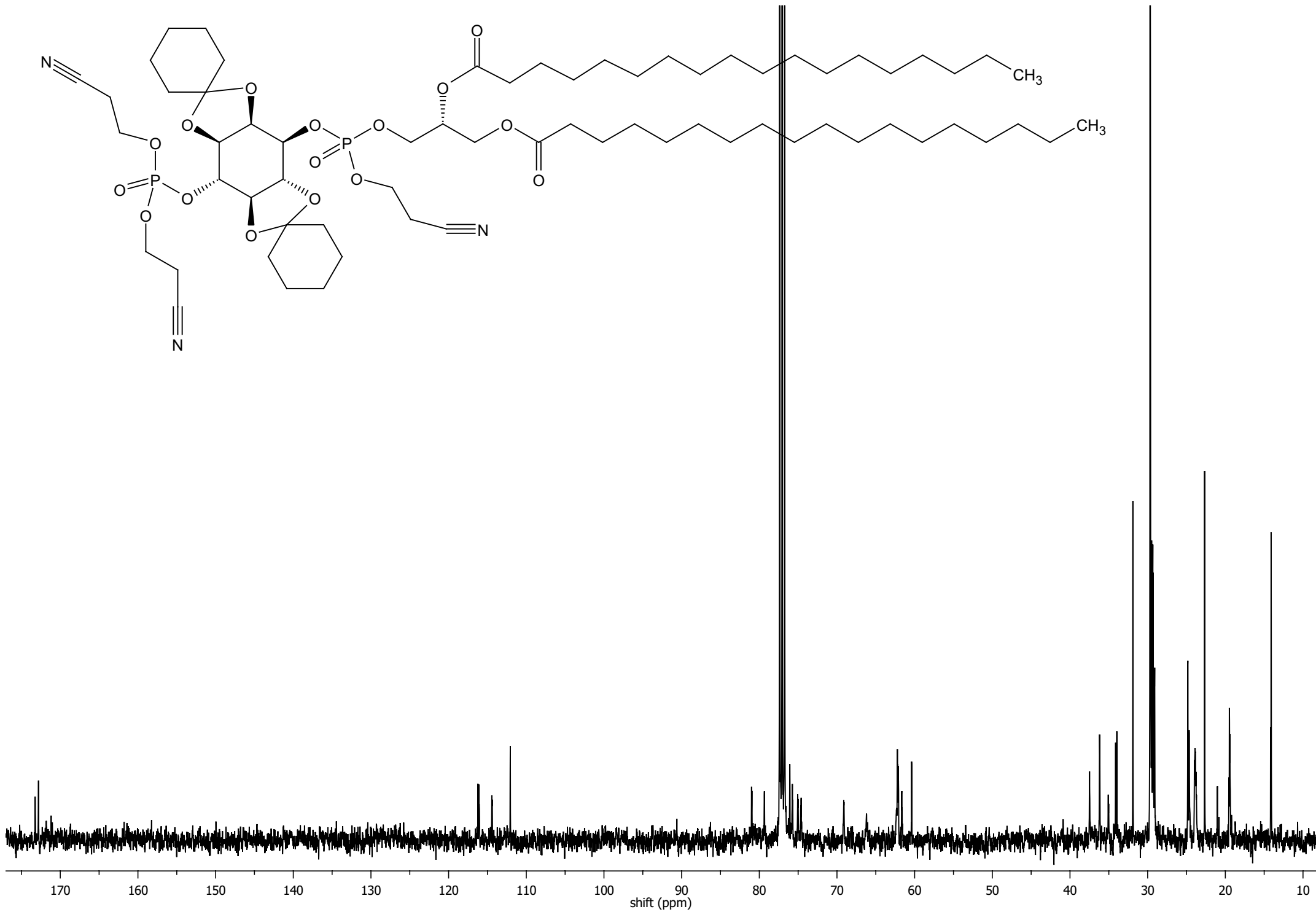
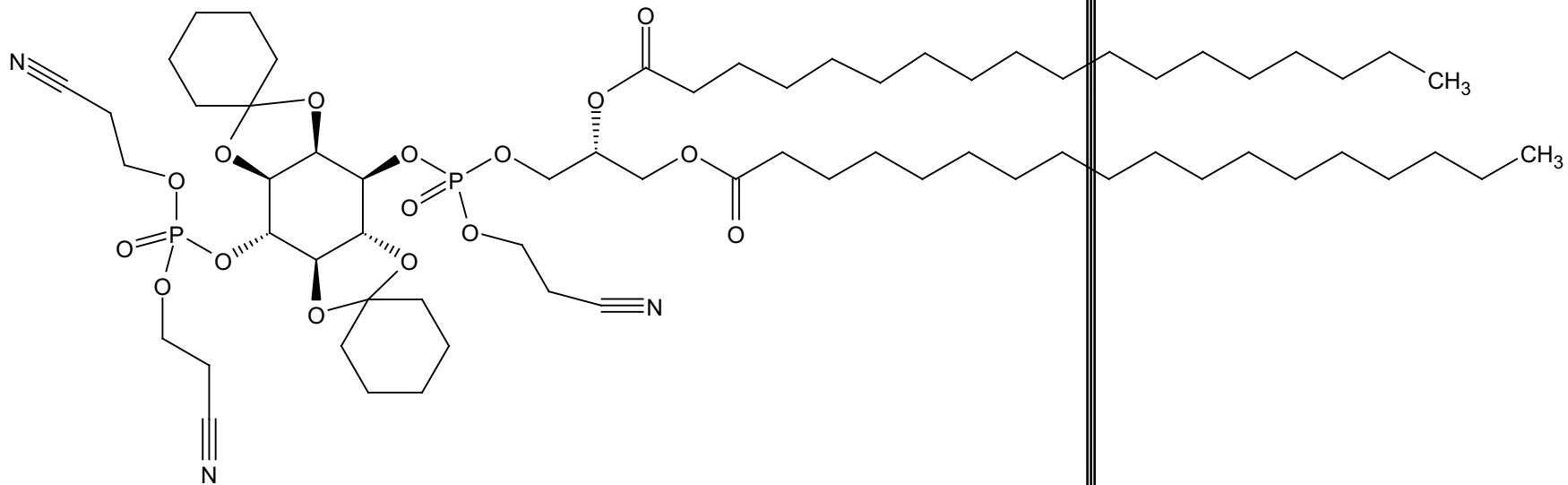
**1-*O*-[(Cyanoethoxy)(*sn*-1,2-*O*-distearoylglyceroyloxy) phosphoryl]-4-*O*-(dicyanoethoxyphosphoryl)-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 24a.**

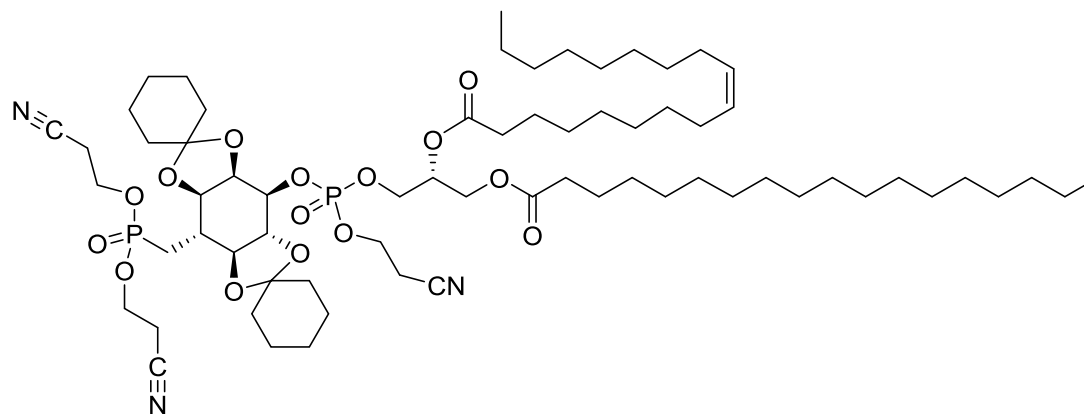
HRMS (ES+)  $m/z$ , calcd for  $C_{66}H_{113}N_3O_{16}P_2Na = 1,288.7$ , found  $[M+Na]^+ 1,288.7$  (62%),  $[M+NH_4]^+ 1,283.7$  (40%),  $[M-C_6H_9]^+ 1186.6$  (78%),  $[DAG]^+ 607.5$  (25%).





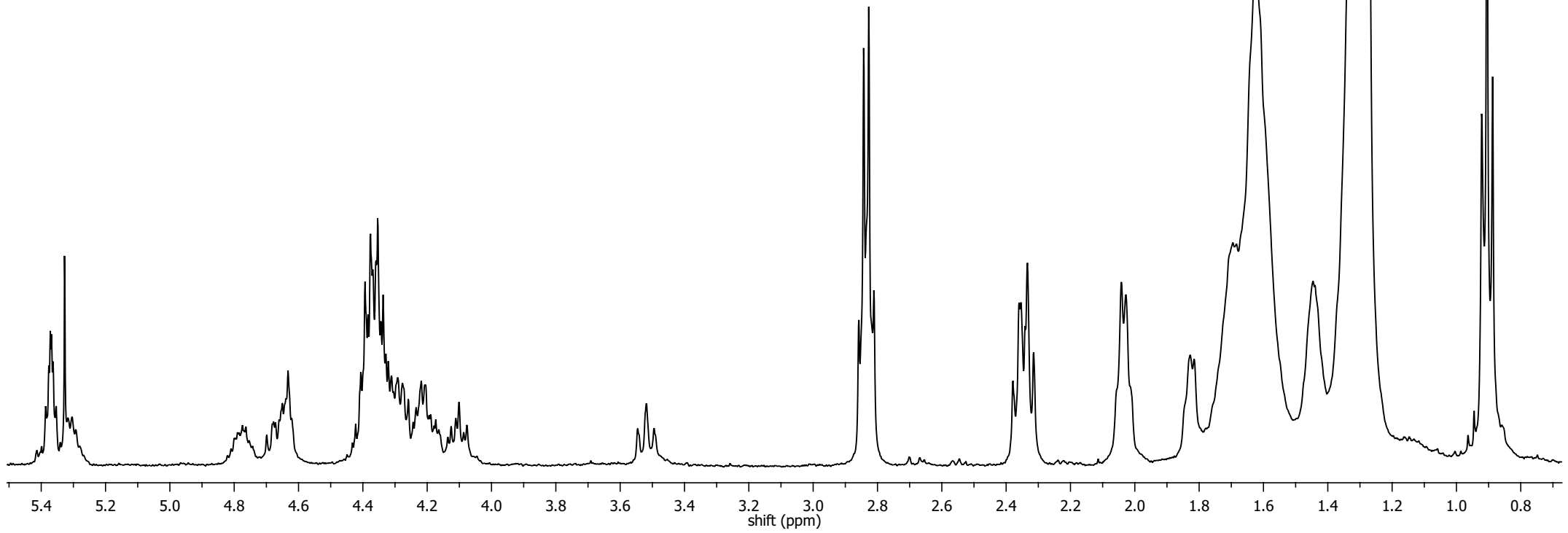
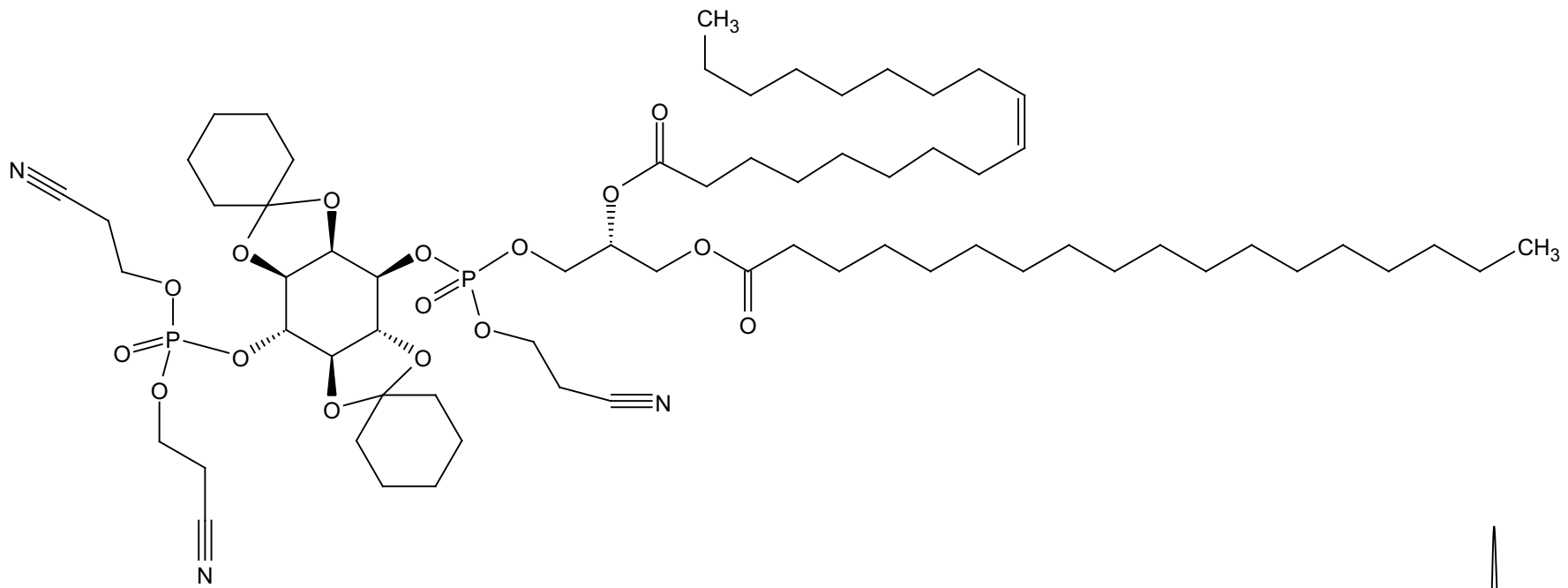


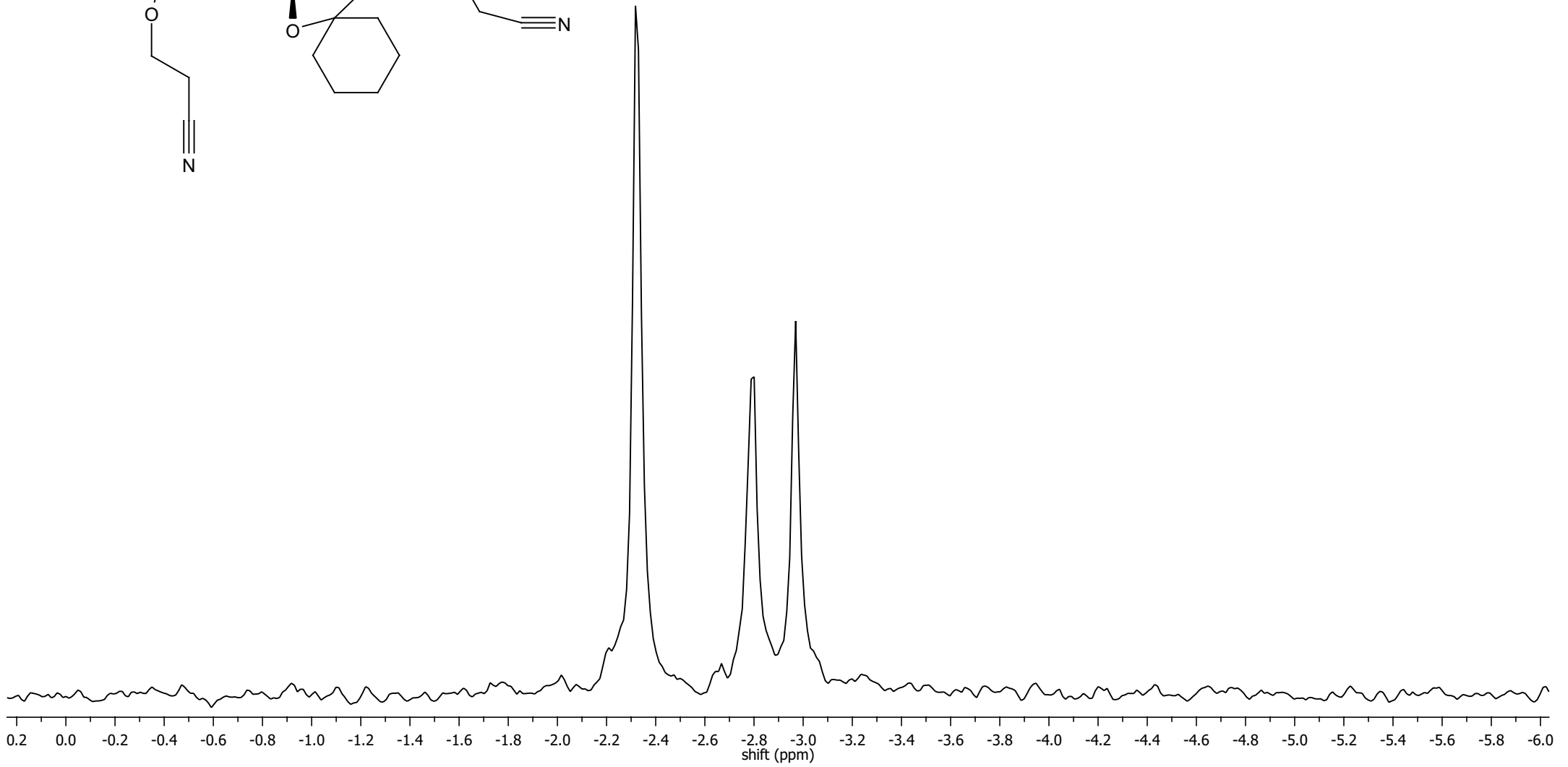
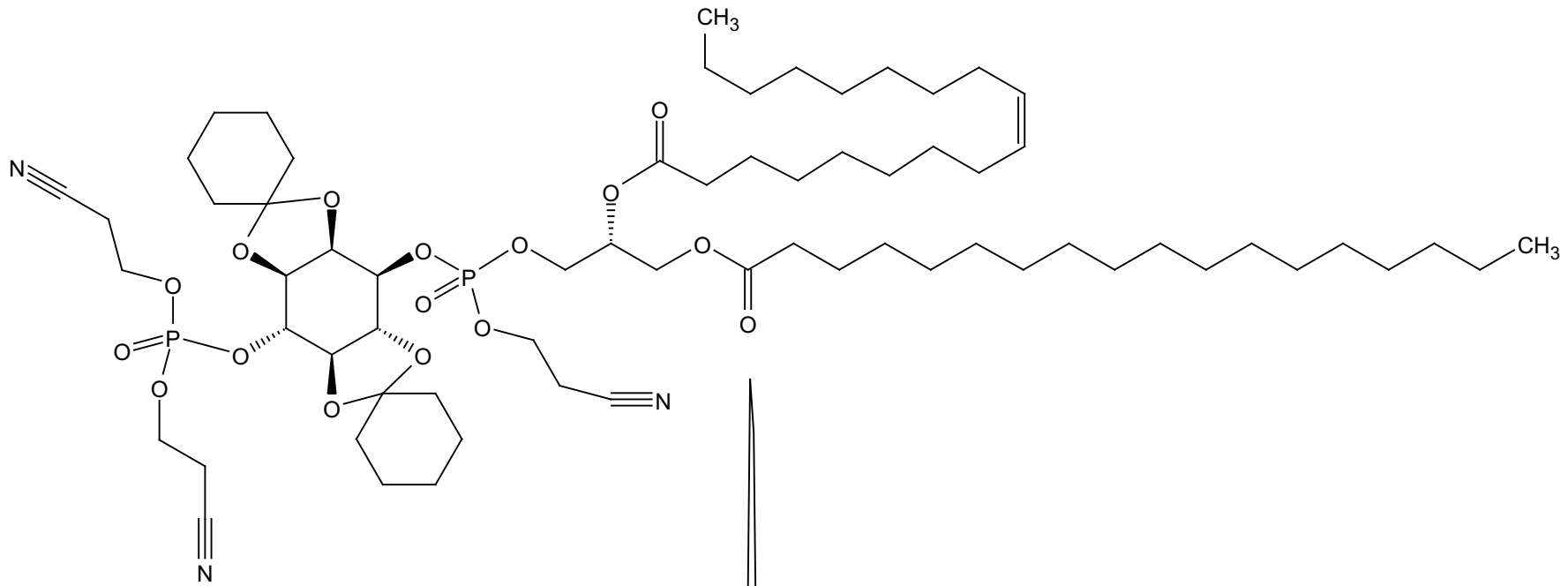


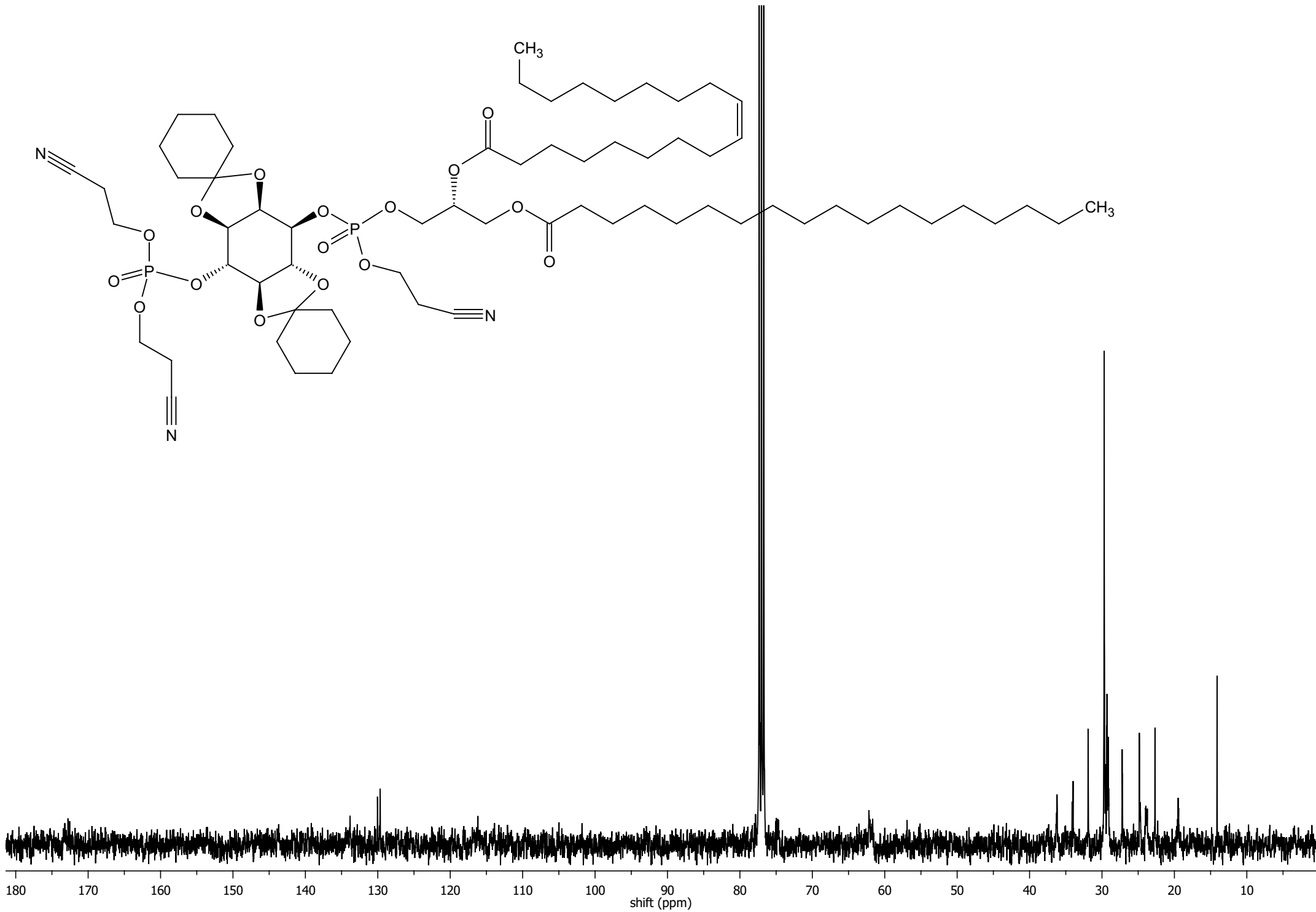
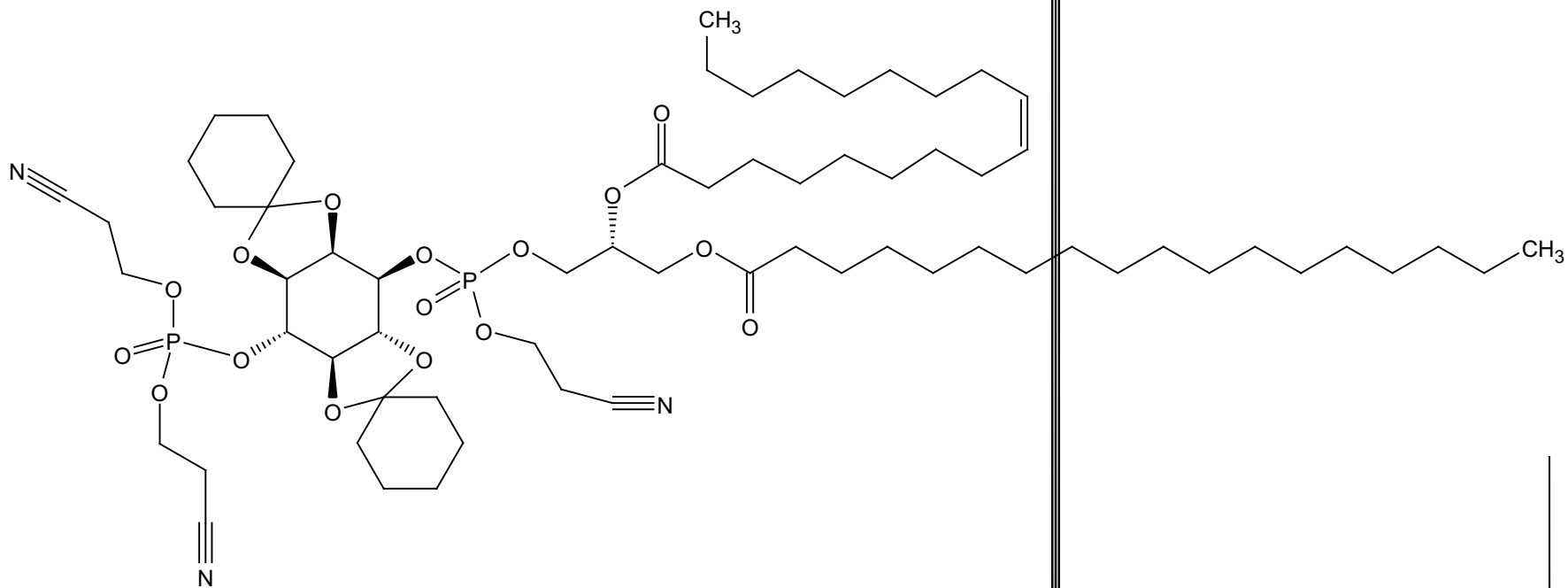


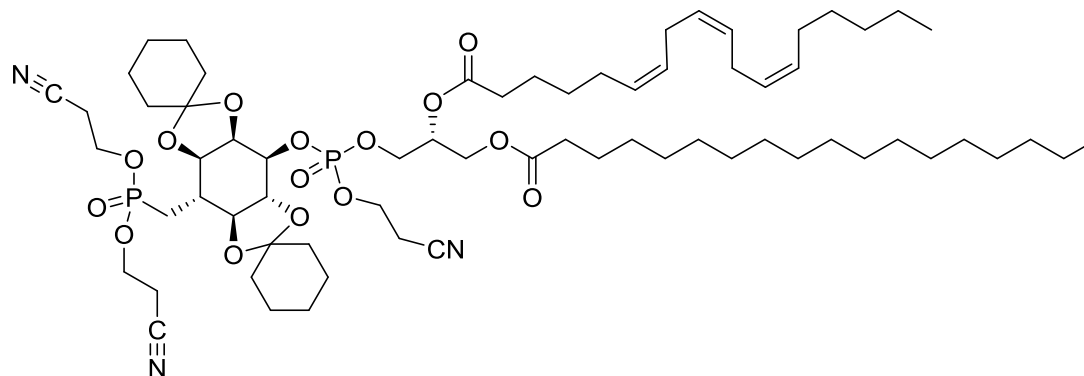
**1-O-(1-O-stearoyl-*sn*-2-oleoyl glycer-3-yloxy)(2-cyanoethoxy) phosphoryl-4-O-di(2-cyanoethoxy)phosphoryl-(2,3)(5,6)-O-dicyclohexylidene-*myo*-inositol, 24b.**

MS (ESI+)  $m/z$   $[M+Na]^+$  = 1,286.7 (85%),  $C_{66}H_{111}N_3O_{16}P_2Na$  requires 1,286.7, also observed  $[M-C_6H_7]^+$  = 1184.6 (100%),  $[DAG+Na]^+$  = 651.8 (22%),  $[Dag-OH]^+$  = 605.5 (40%).





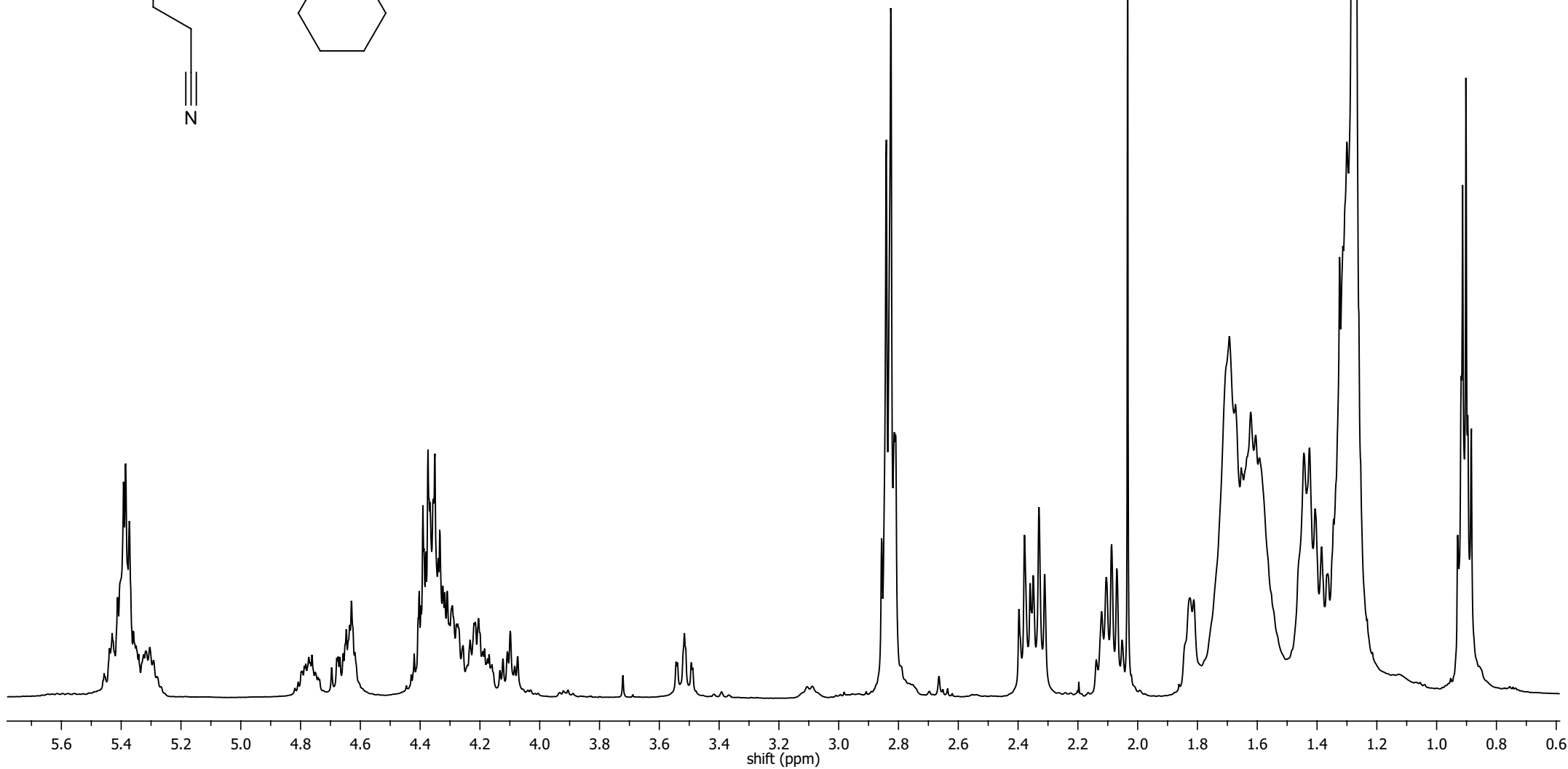
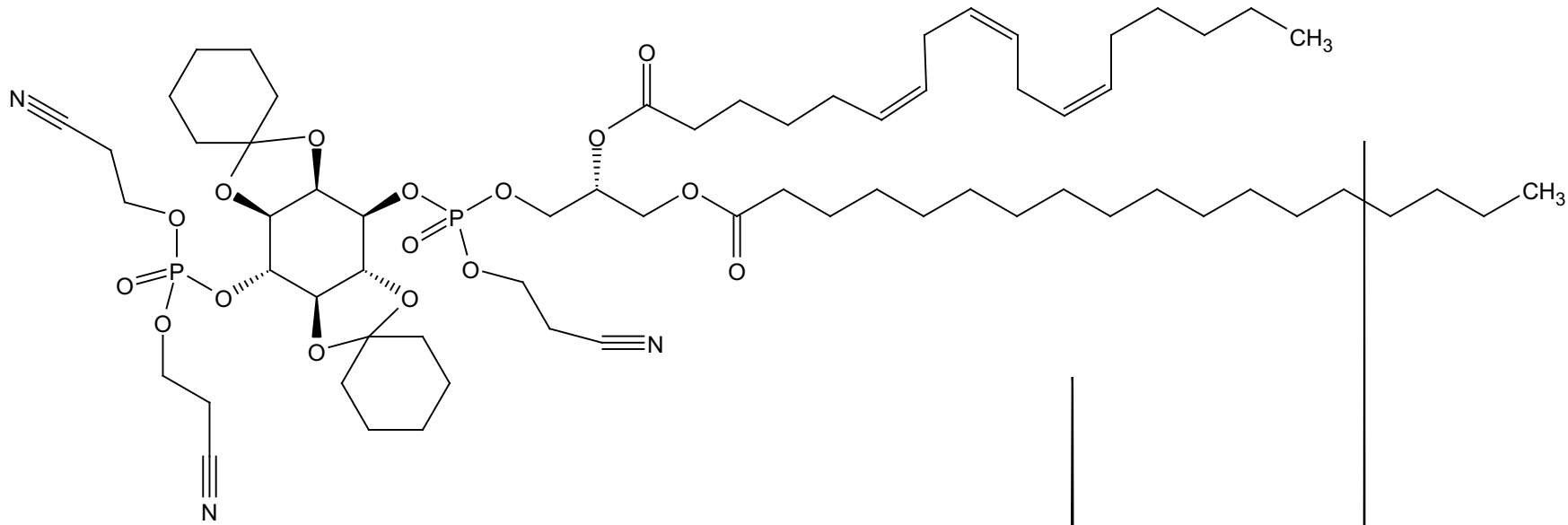


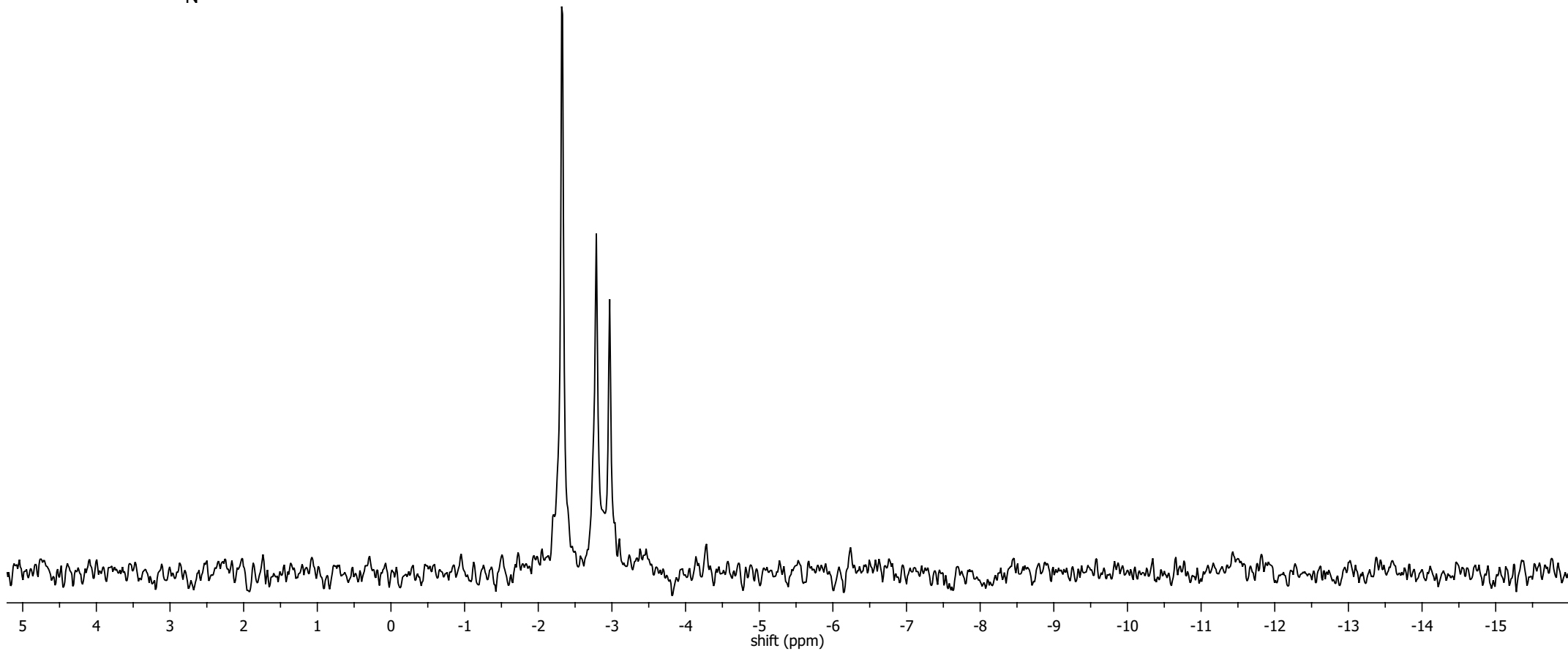
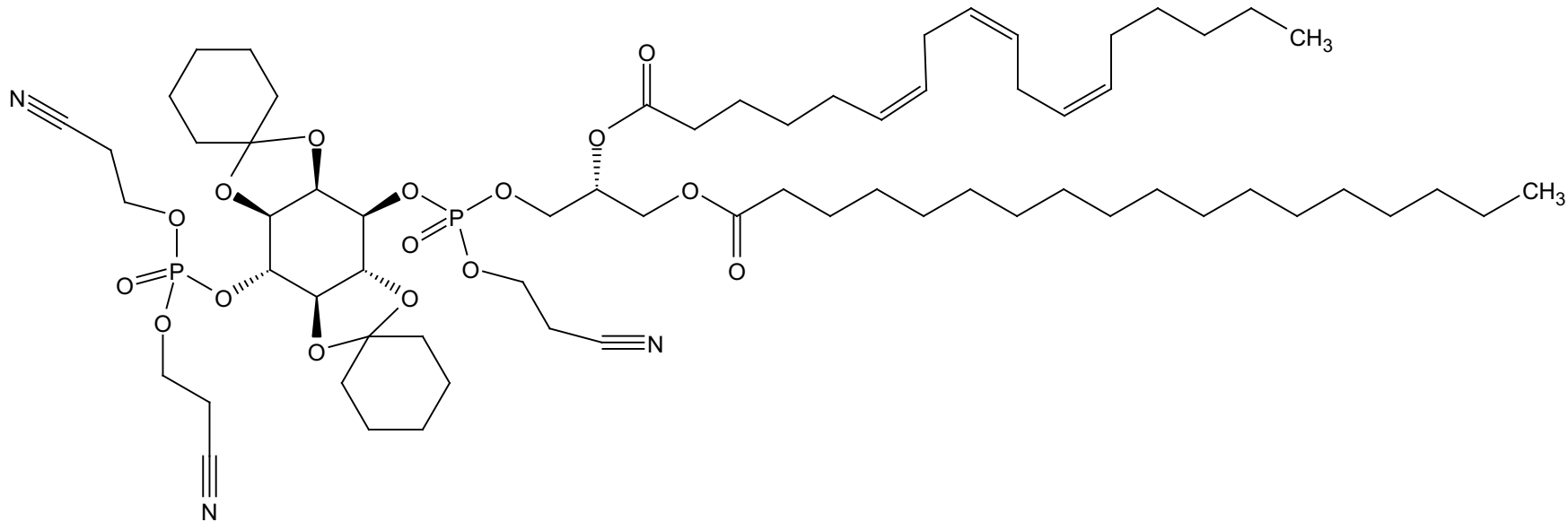


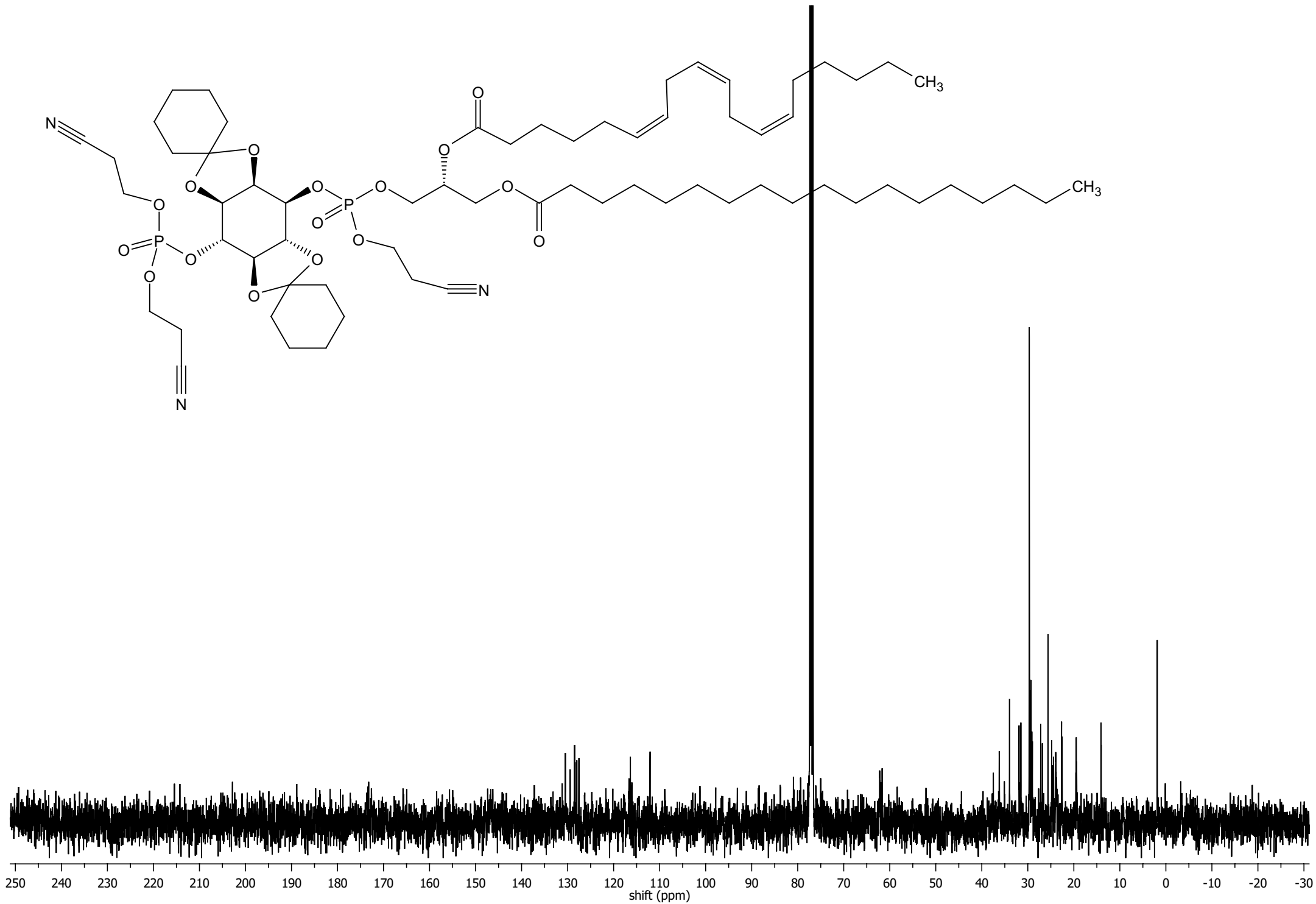
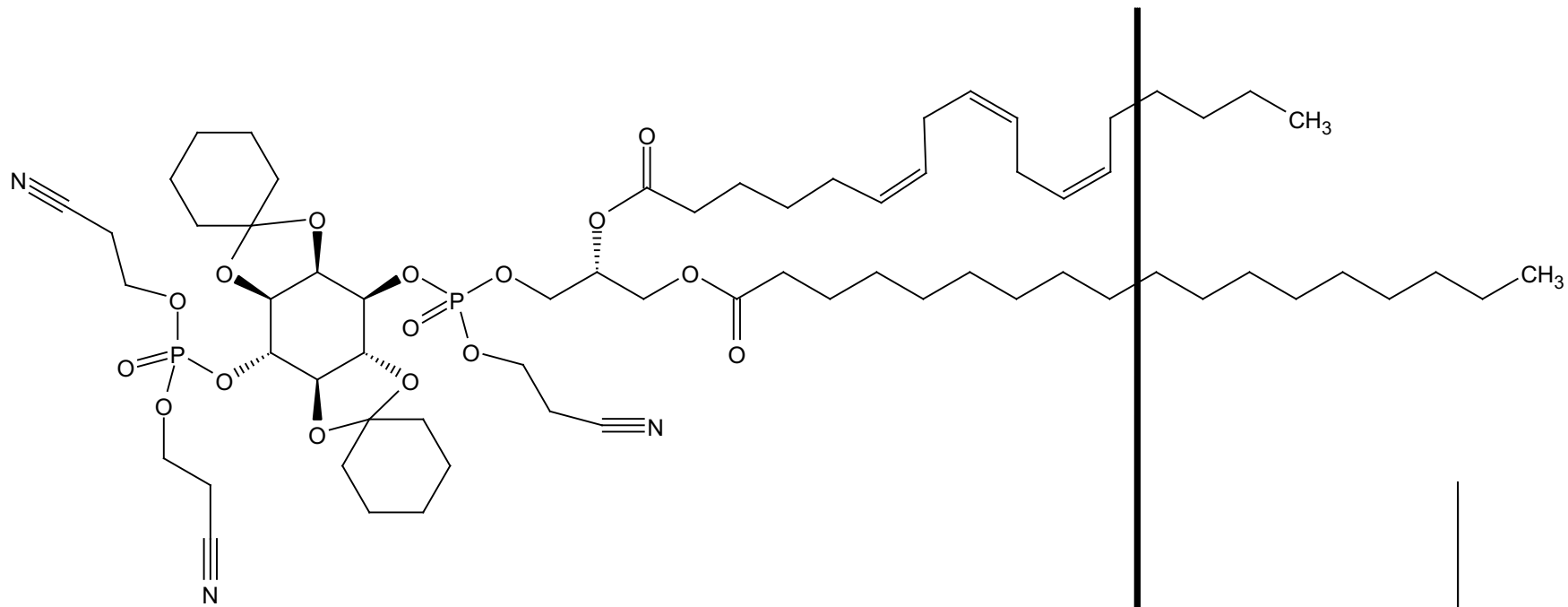
**1-*O*-[(Cyanoethoxy)(*sn*-1-*O*-stearoyl-2-*O*- $\gamma$ -linolenoyl)glyceryloxy]phosphoryl]-4-*O*-(dicyanoethoxyphosphoryl)-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 24c.**

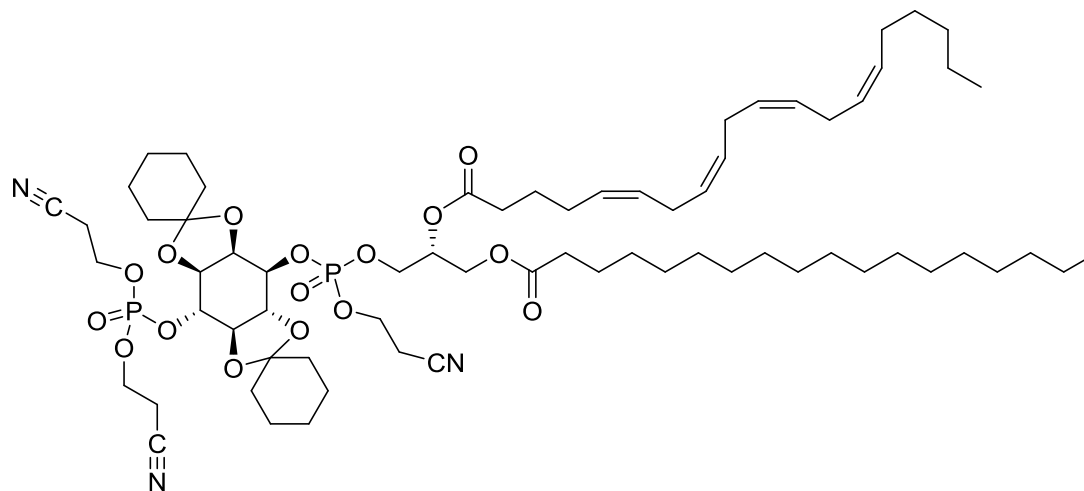
HRMS (ESI+) *m/z*, calcd for C<sub>66</sub>H<sub>107</sub>N<sub>3</sub>O<sub>16</sub>P<sub>2</sub>Na = 1,282.6, found [M+Na]<sup>+</sup> 1,282.6 (48%), [M+NH<sub>4</sub>]<sup>+</sup> 1,277.7 (30%), [M-C<sub>6</sub>H<sub>9</sub>]<sup>+</sup> 1180.6 (53%), [DAG]<sup>+</sup> 601.5 (22%).





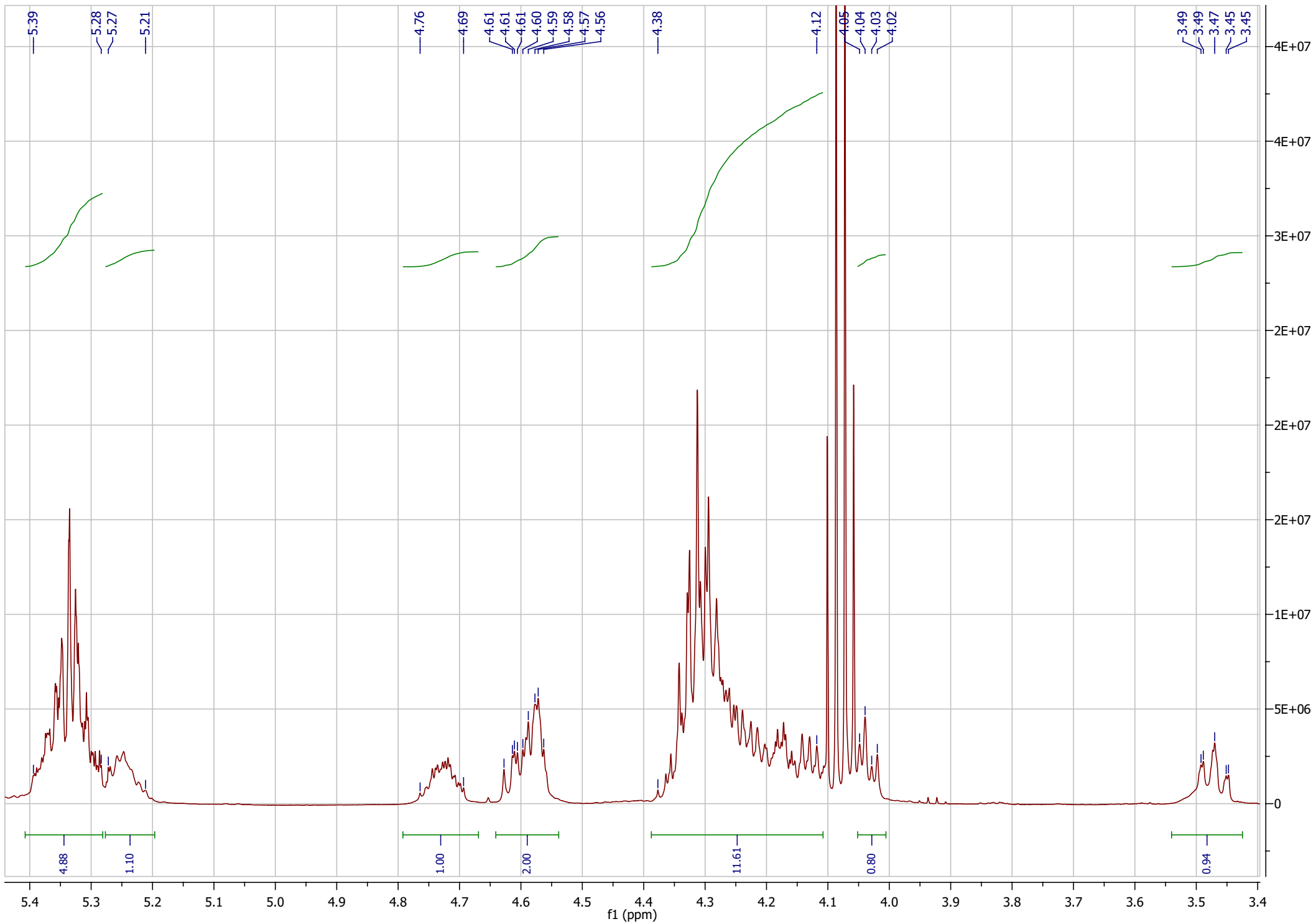


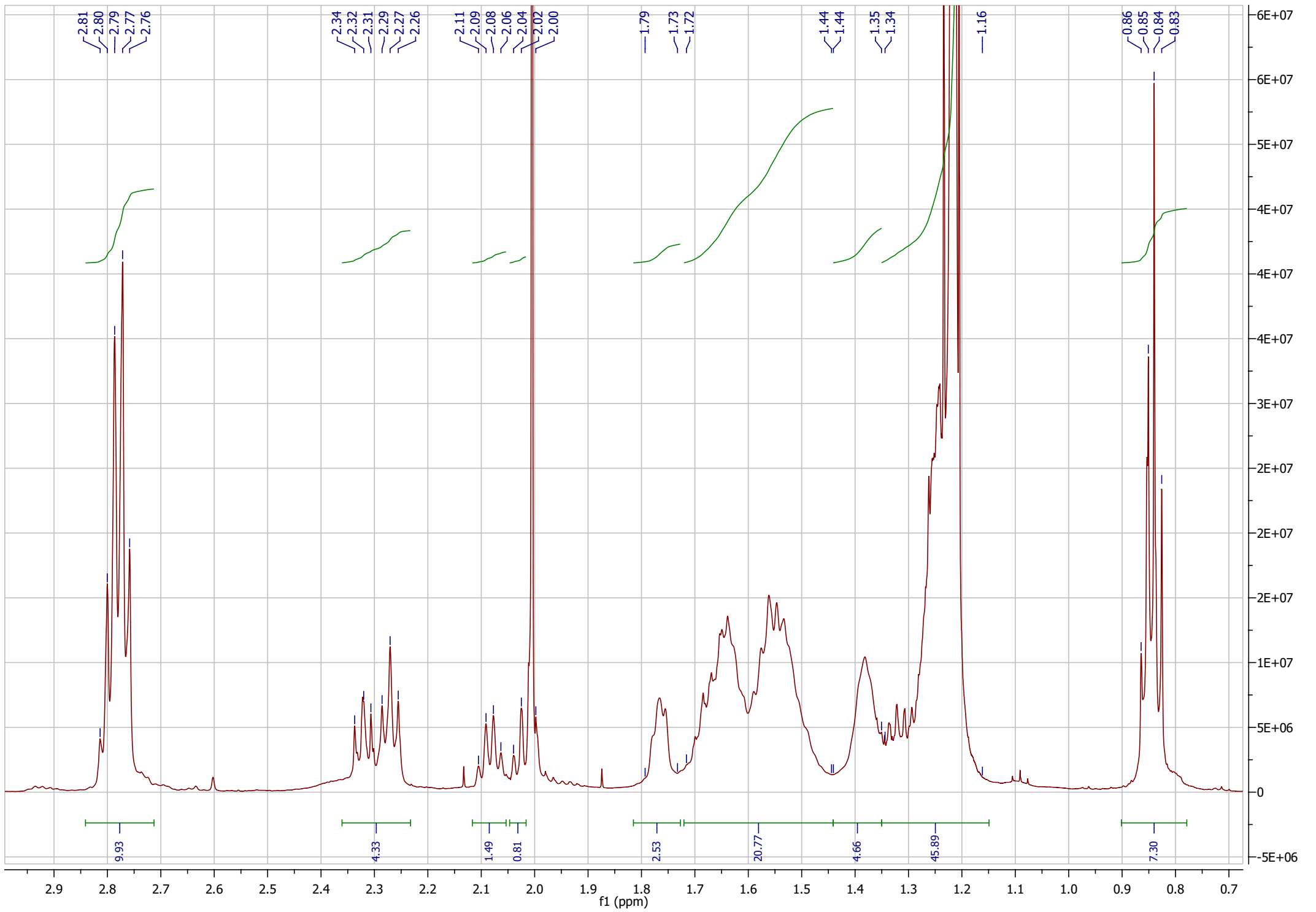


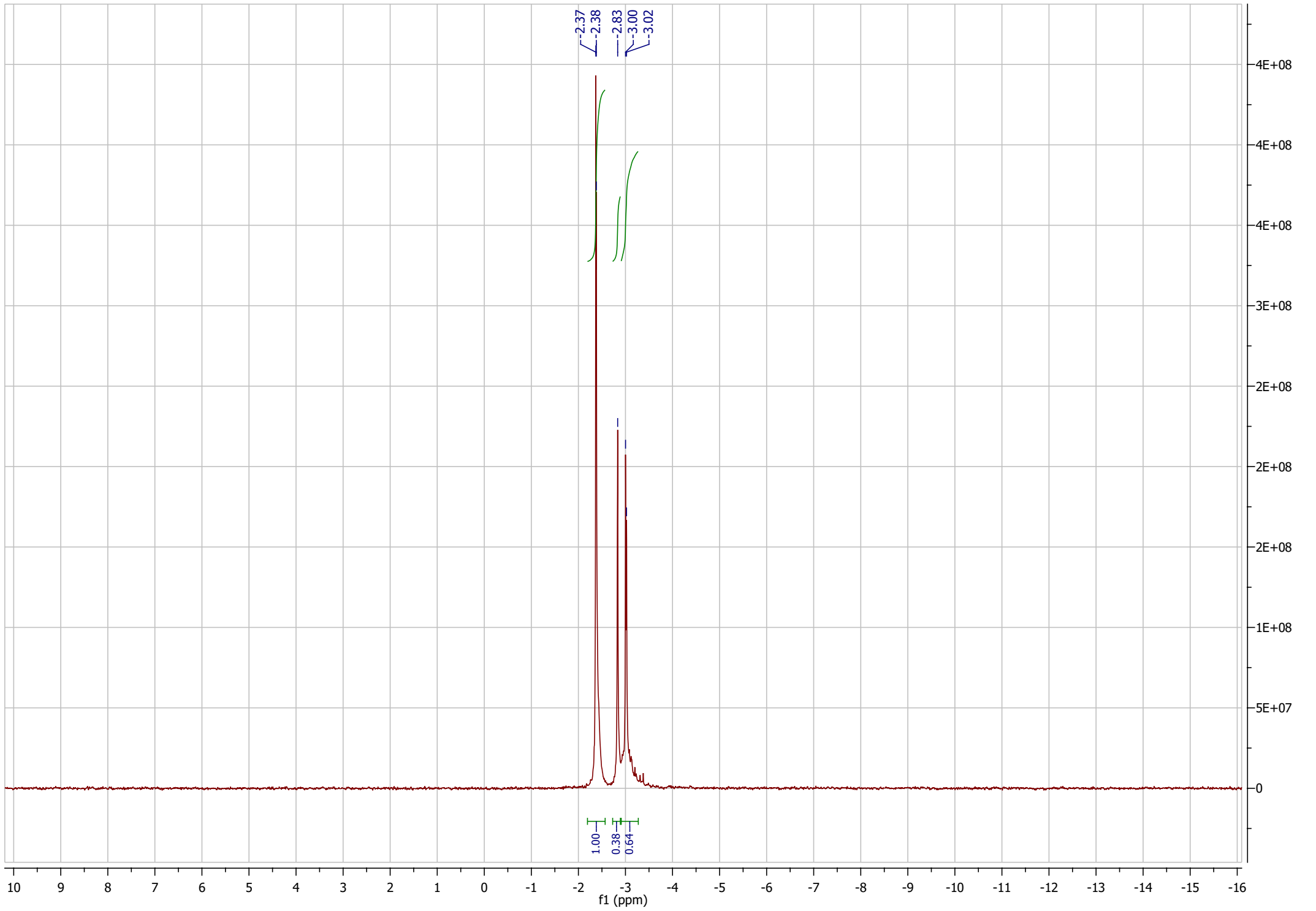


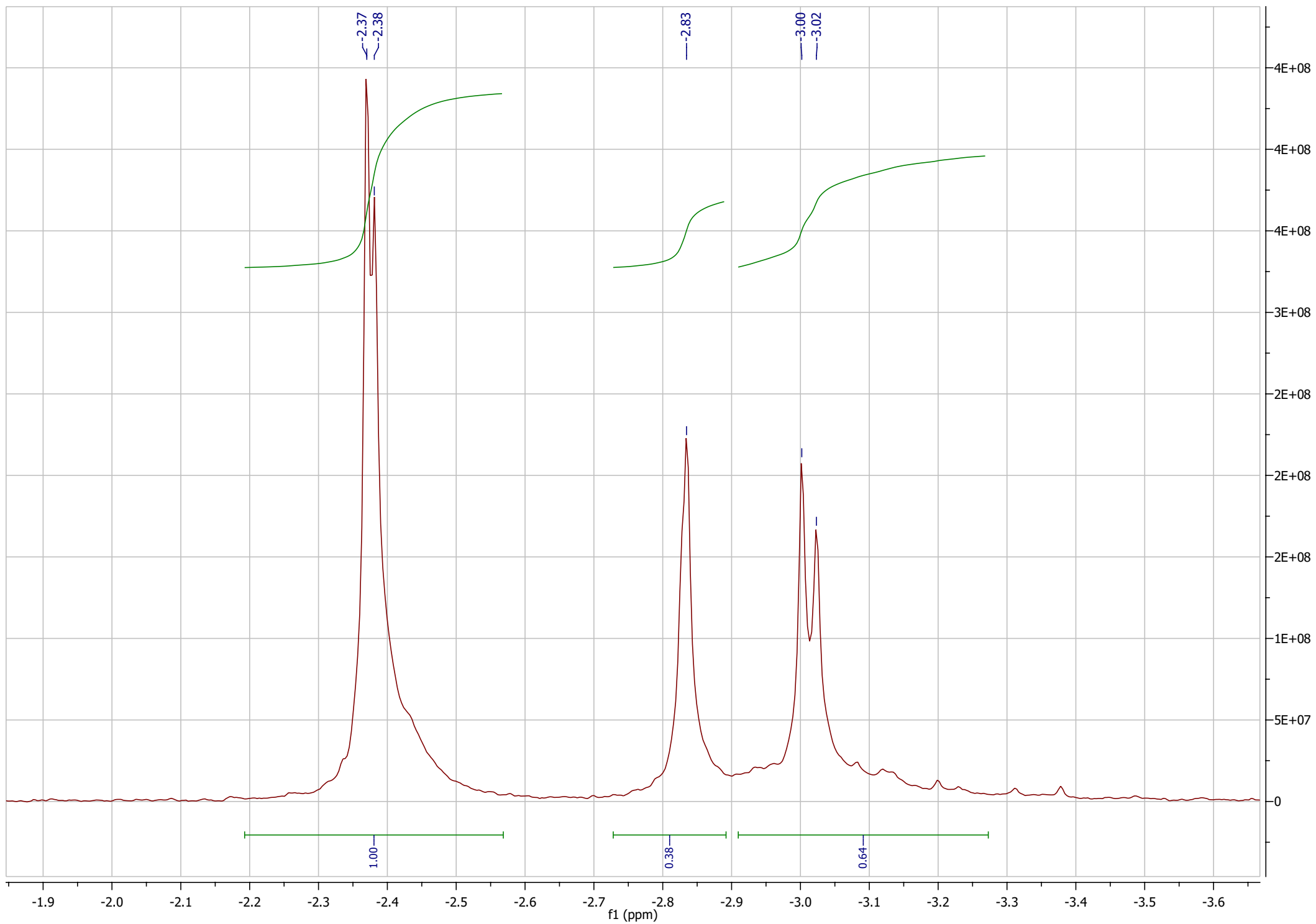
**1-*O*-[(Cyanoethoxy)(*sn*-1-*O*-stearoyl-2-*O*-arachidonoylglyceroyloxy)phosphoryl]-4-*O*-(dicyanoethoxyphosphoryl)-(2,3)(5,6)-*O*-dicyclohexylidene-*myo*-inositol, 24d.**

HRMS (ESI+)  $m/z$  found  $[M+H]^+ = 1,286.7357$ ,  $C_{68}H_{110}N_3O_{16}P_2$  requires 1,286.7361.

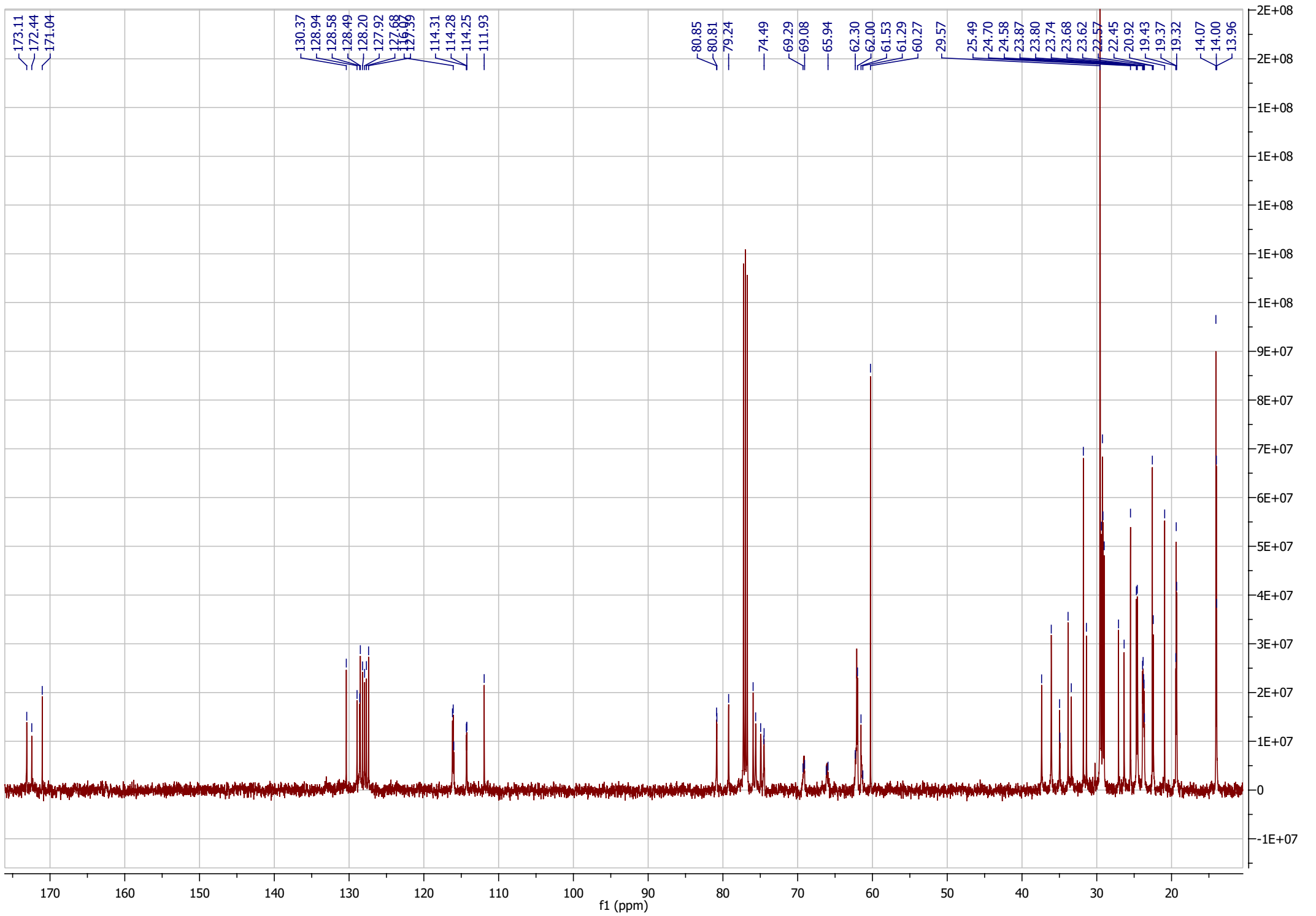


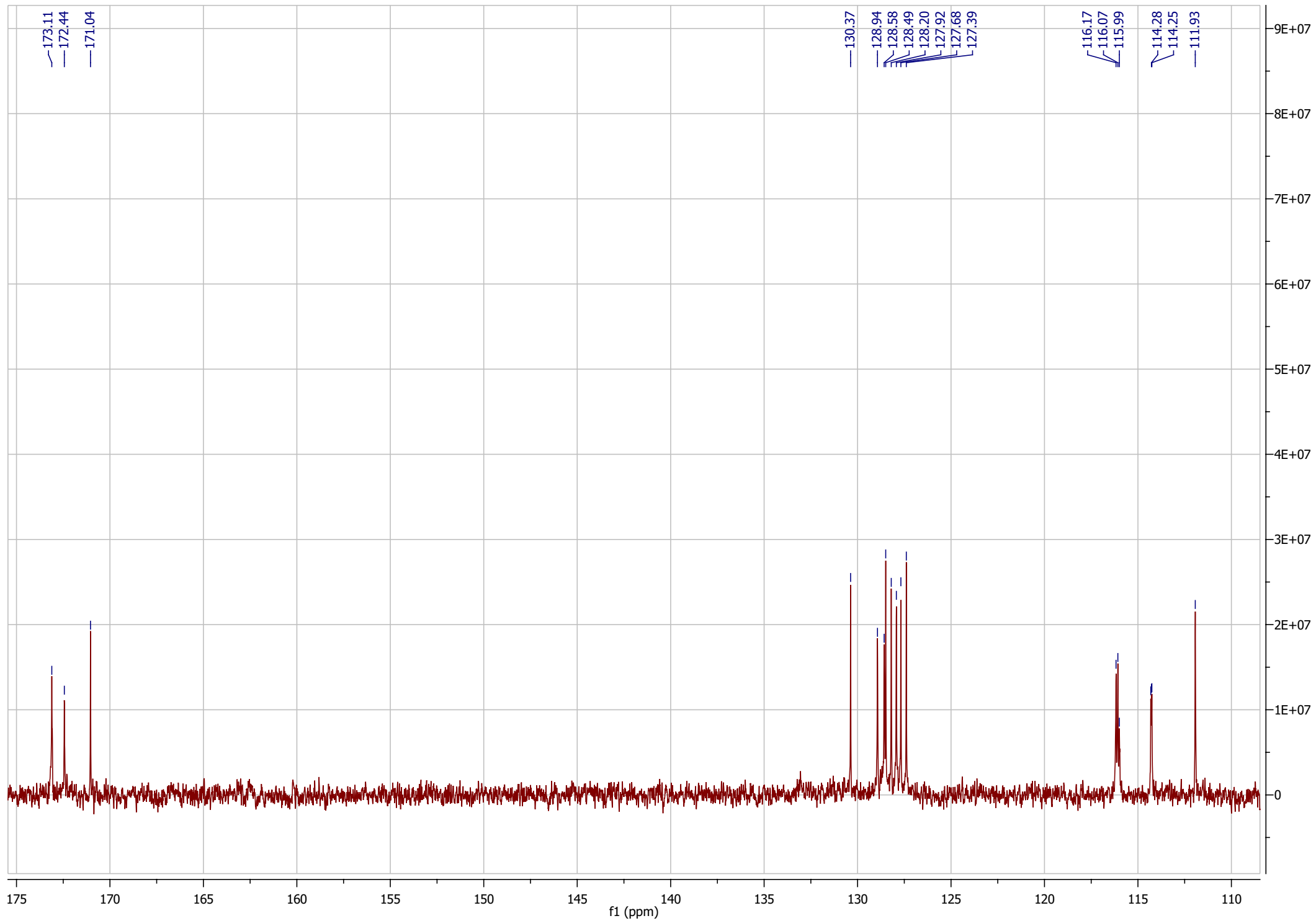


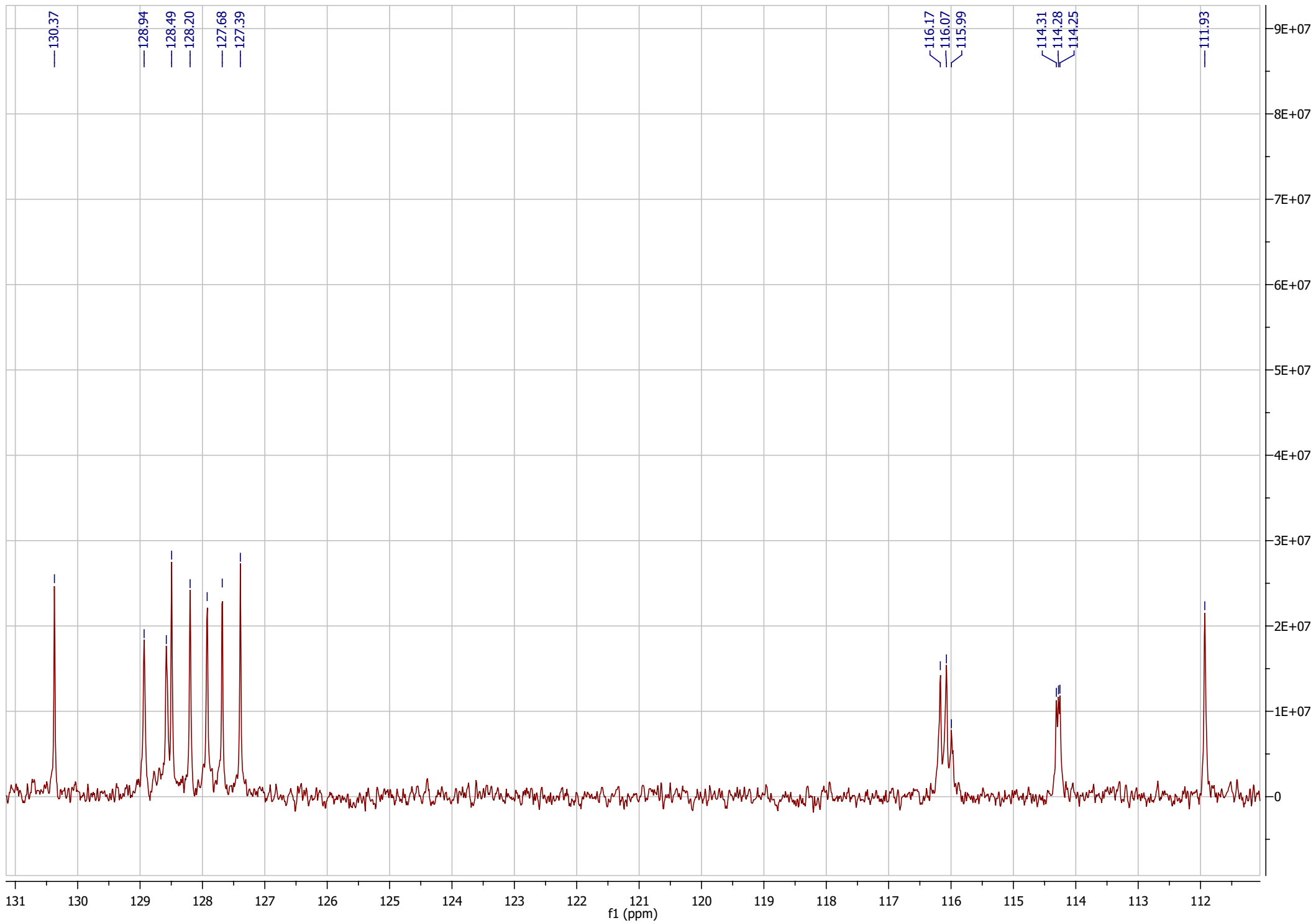


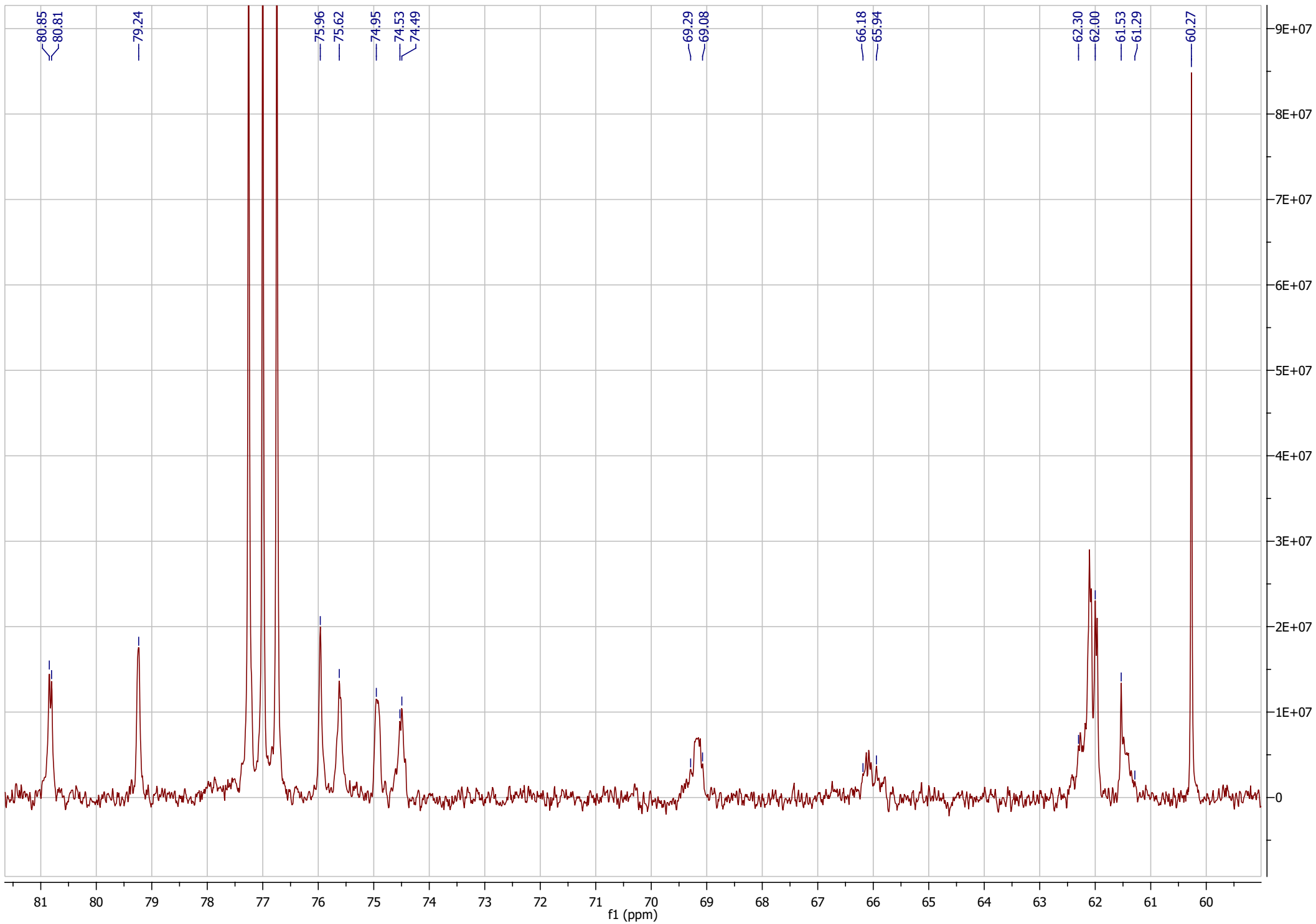


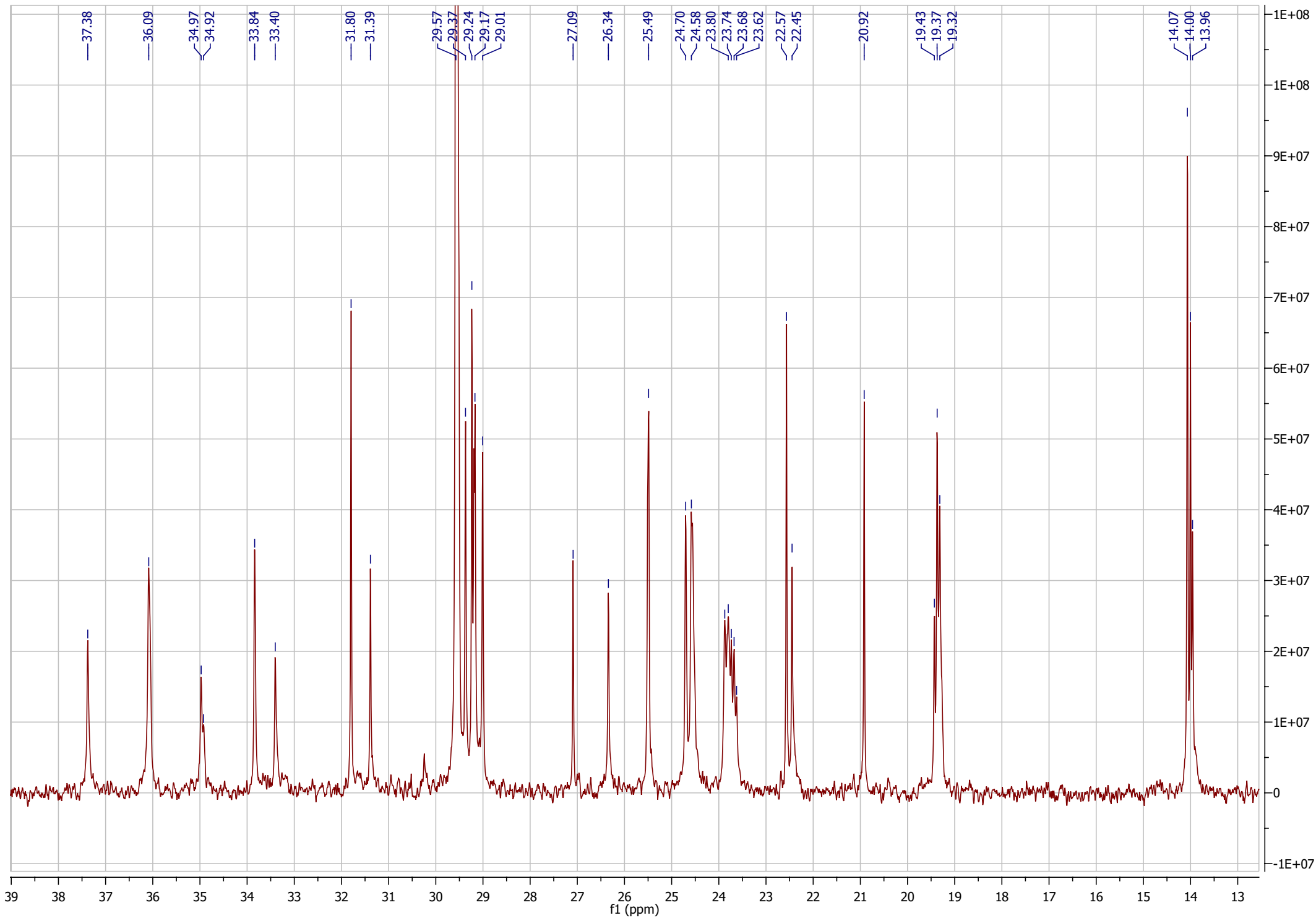


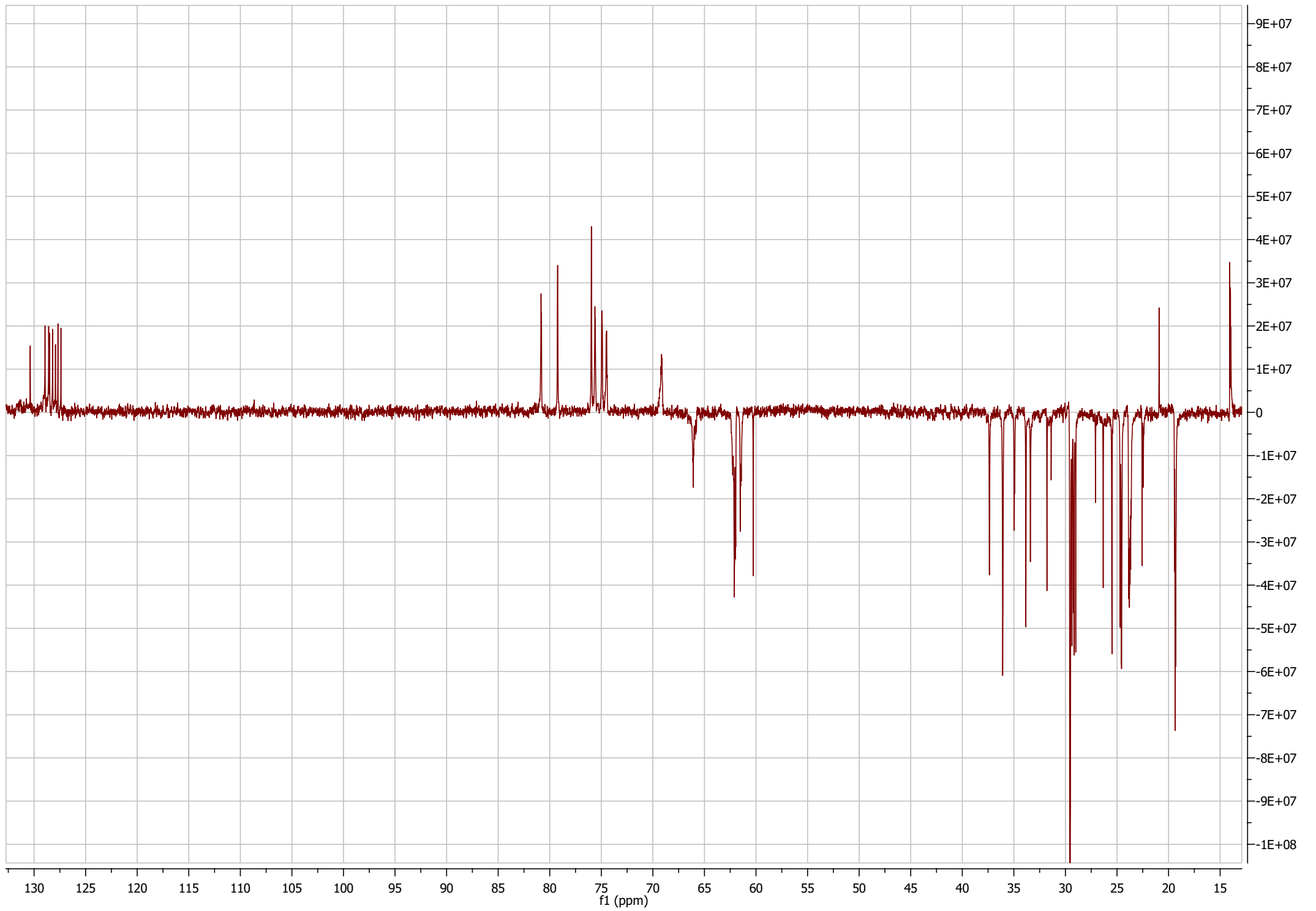


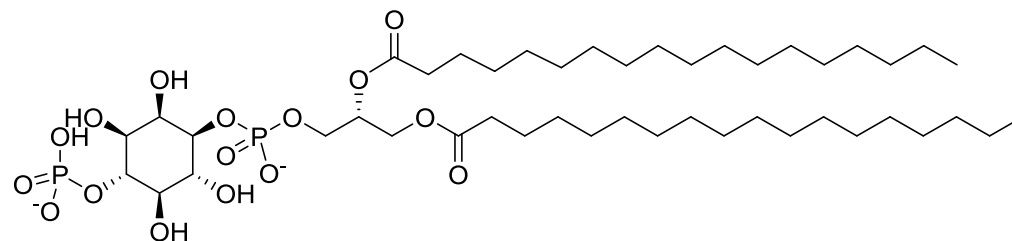






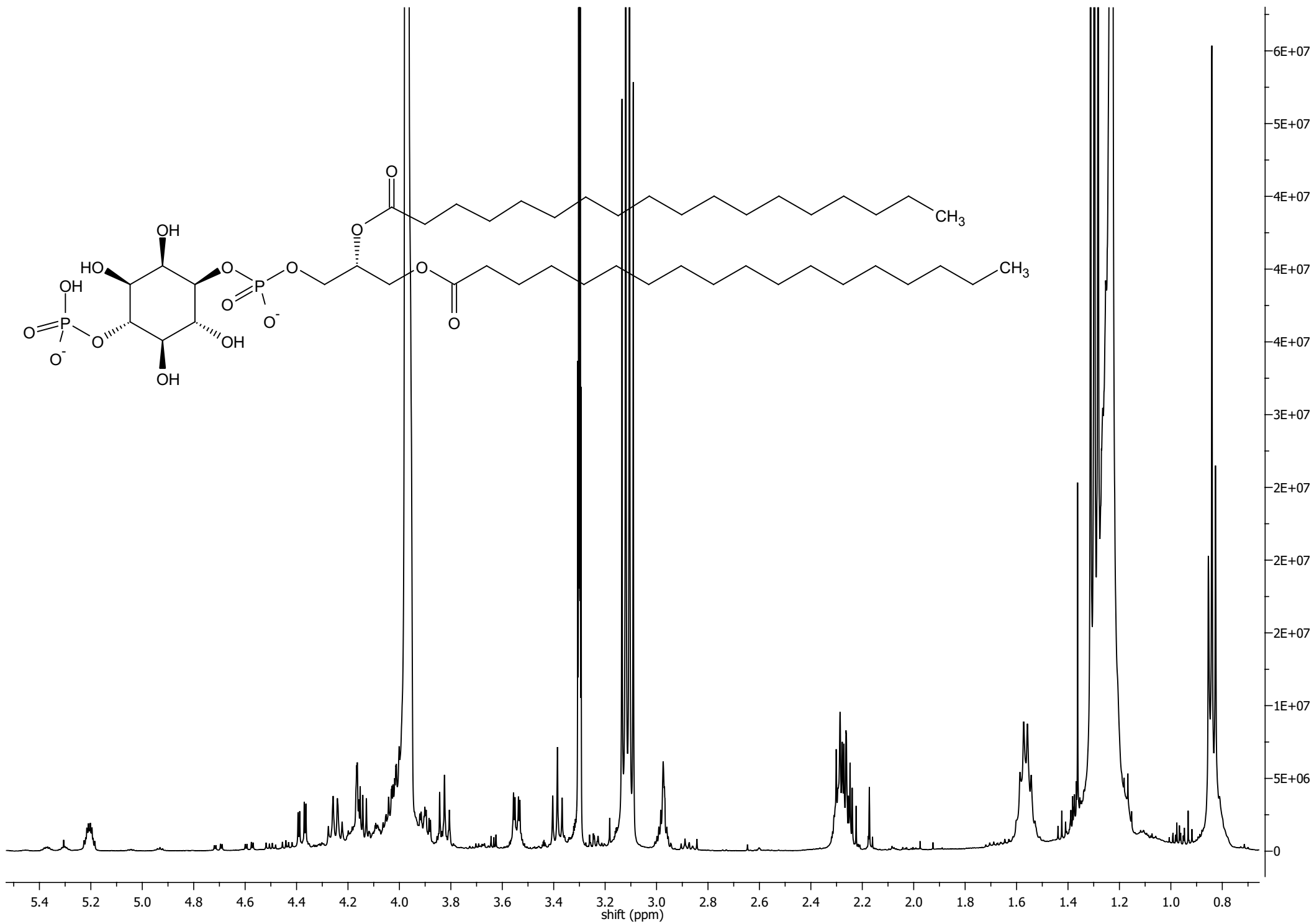




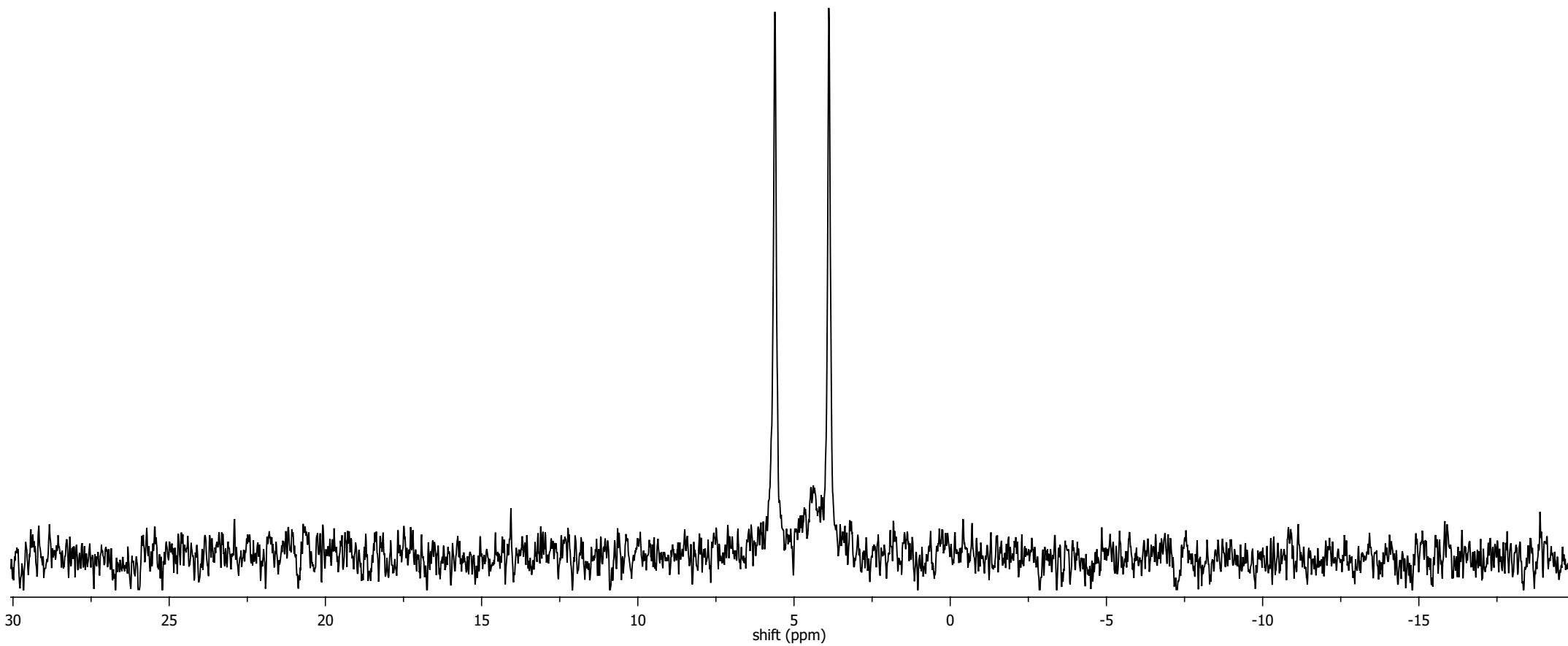
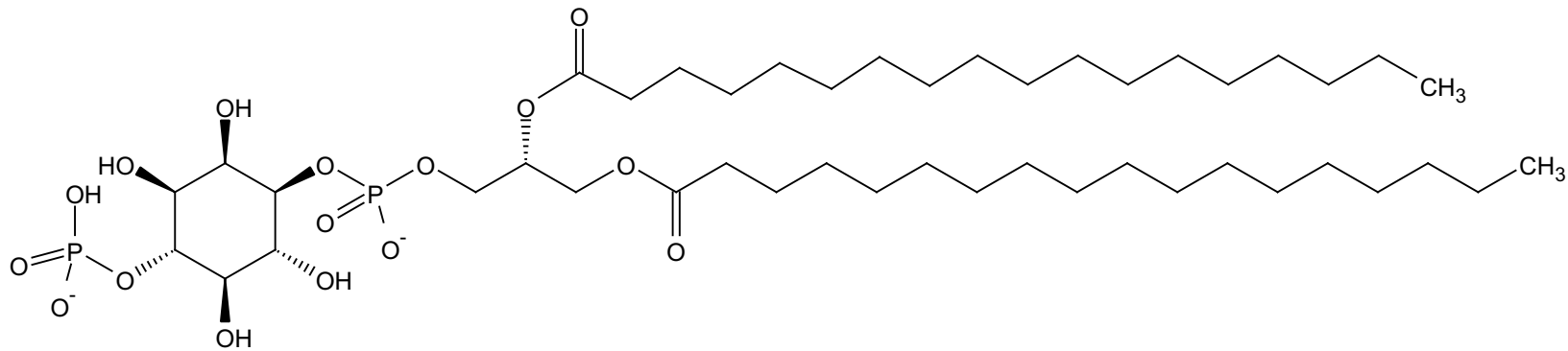


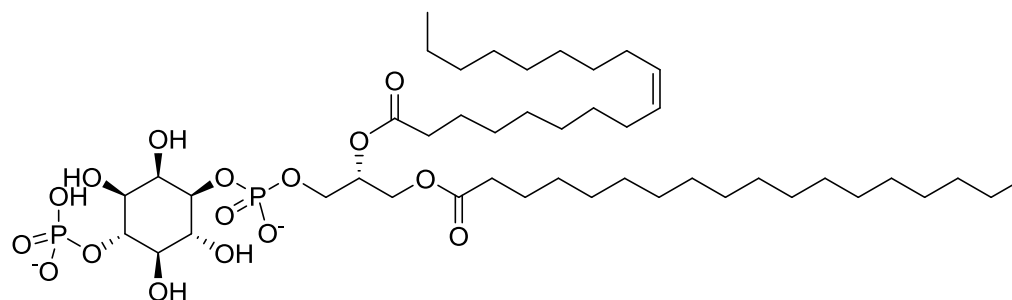
**Distearoylphosphatidylinositol 4-Phosphate, triethylammonium salt, 2a.**

HRMS (ESI-)  $m/z$ ,  $[M+H]^+ = C_{45}H_{87}O_{16}P_2^-$  calculated 945.5469, found 945.5505.



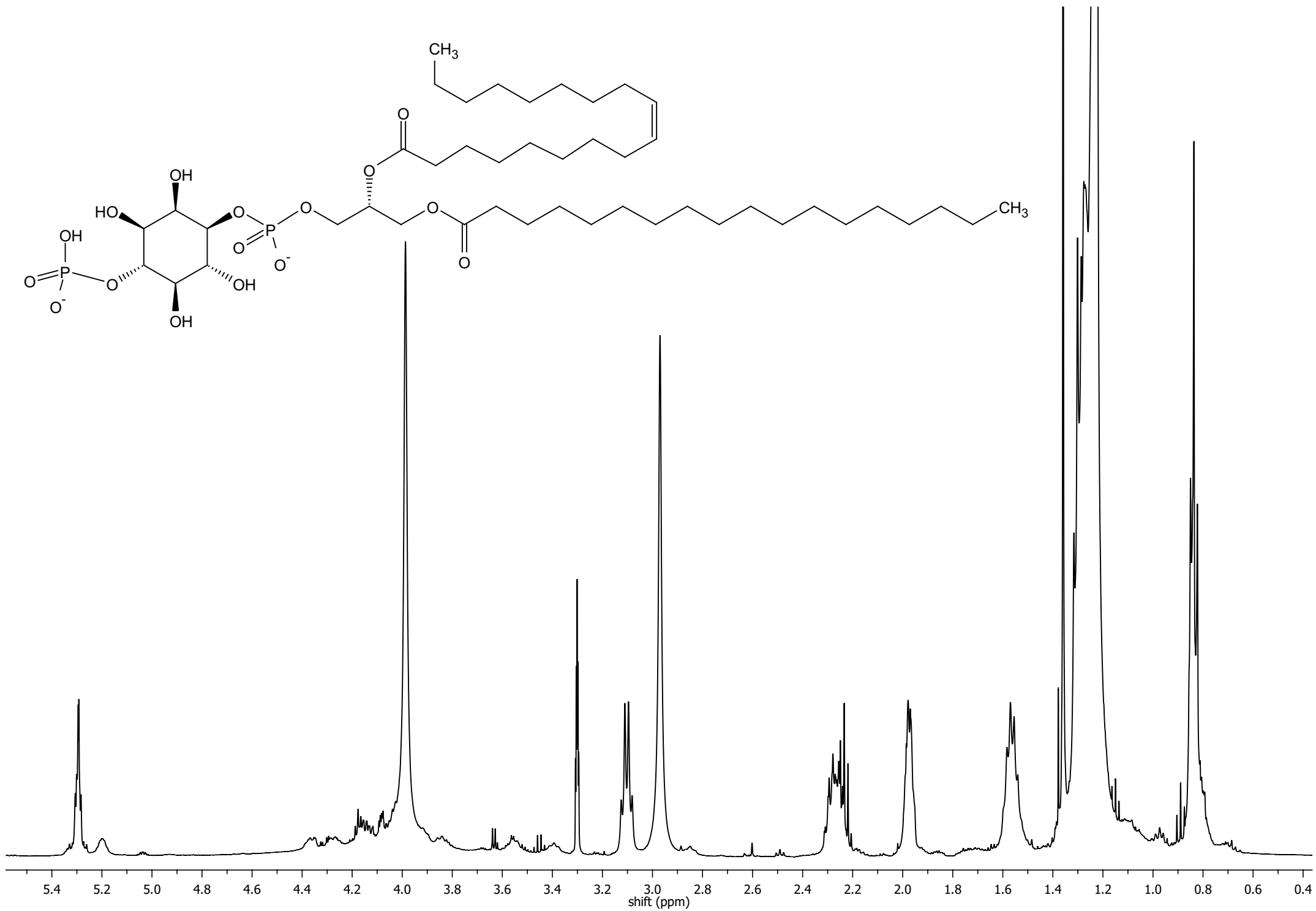
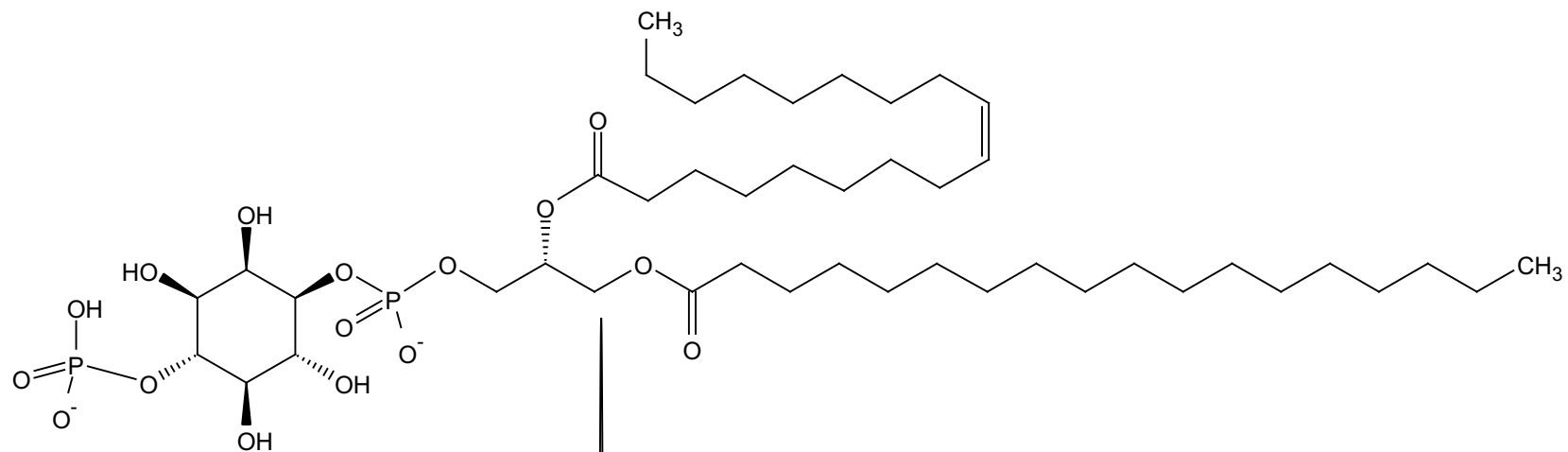


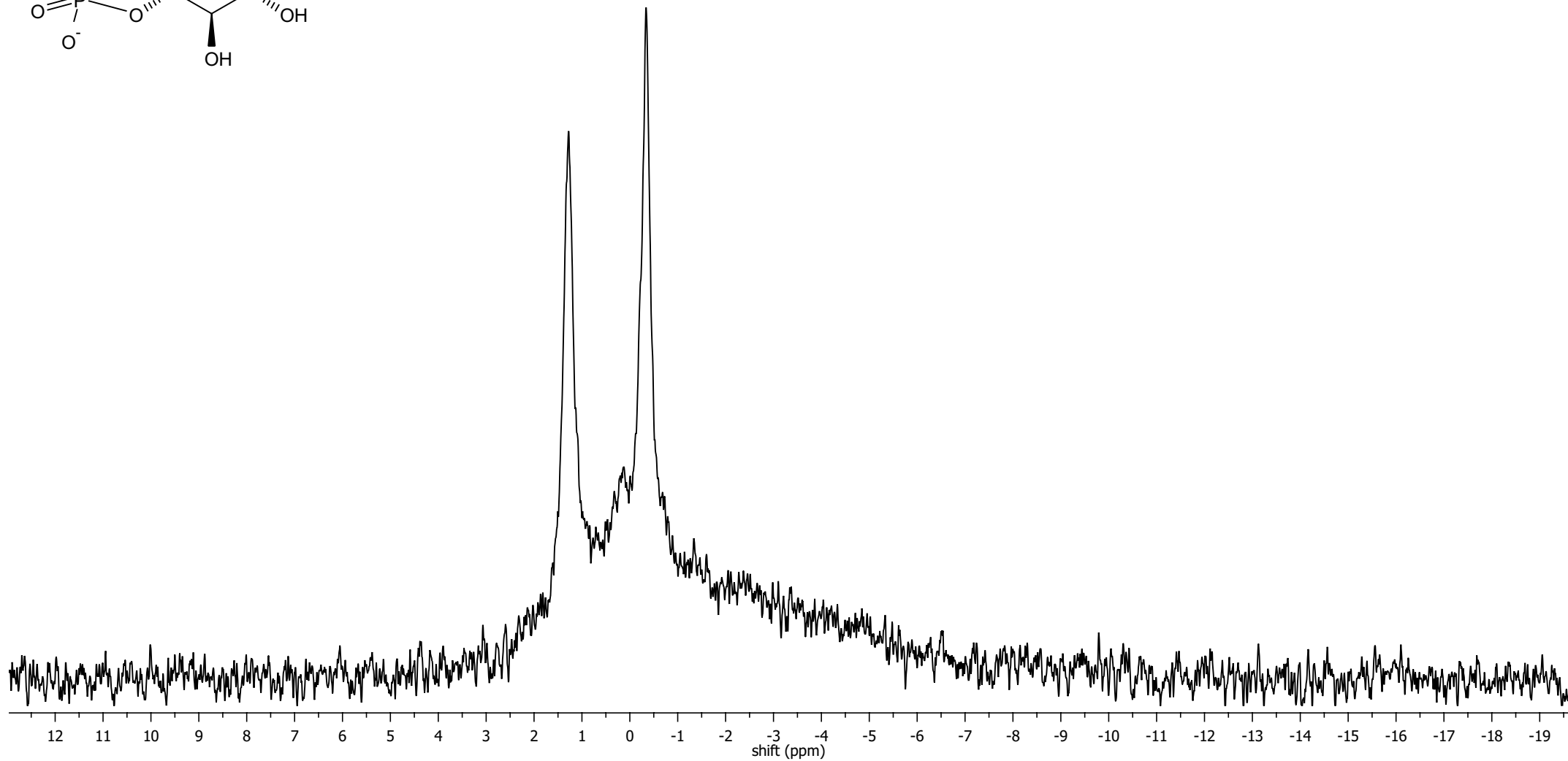
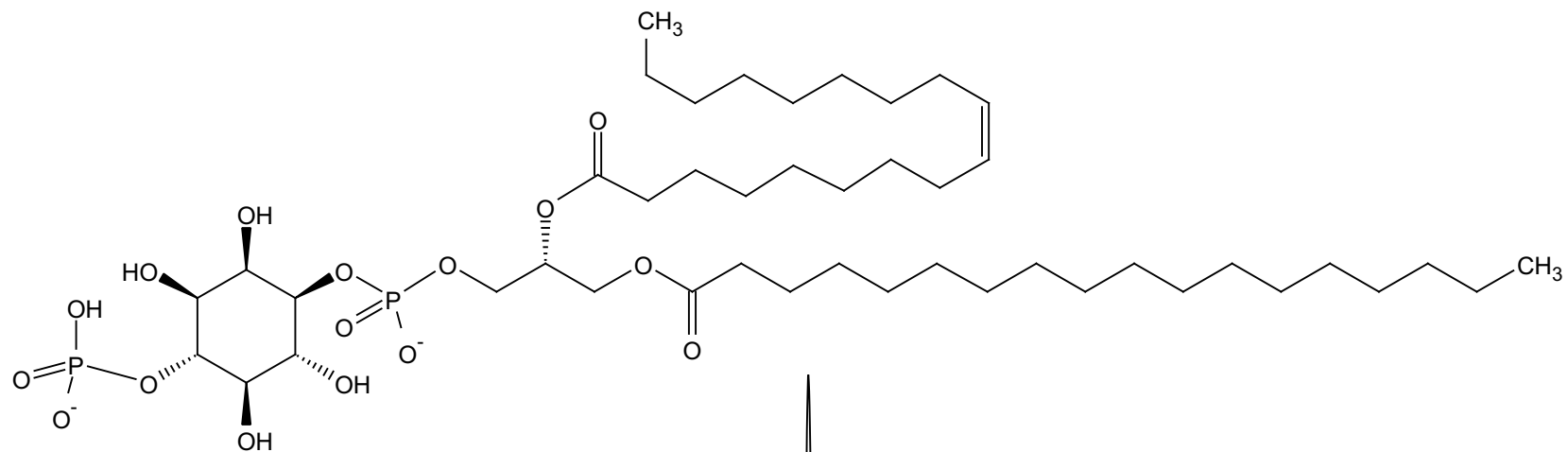


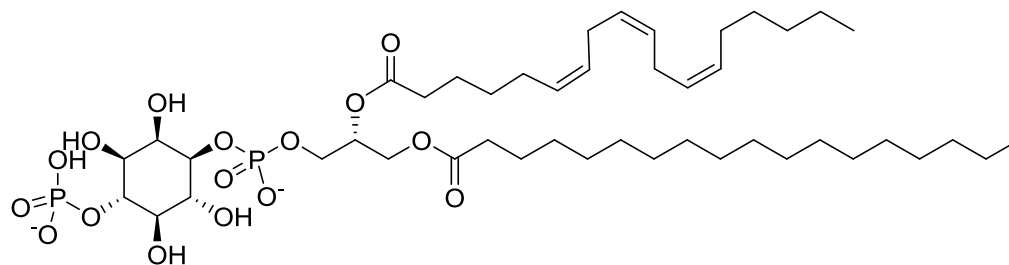


**Stearoyl-oleoyl-phosphatidylinositol-4-phosphate, triethylammonium salt, 2b.**

$m/z$  (HR-ESI-) for **2b**,  $[M+H]^+ = C_{45}H_{85}O_{16}P_2^-$  calculated 943.5313, found 943.5346.

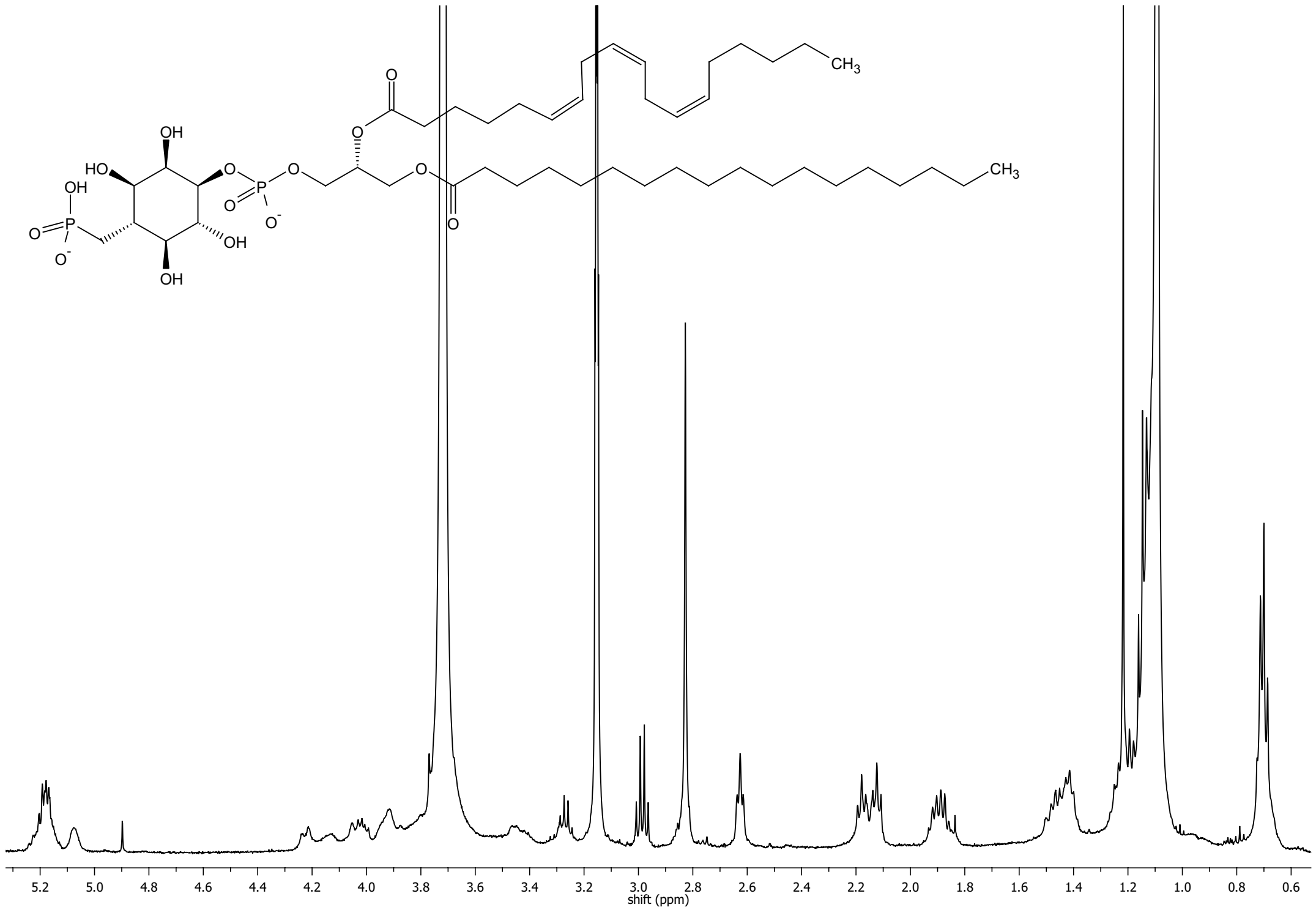
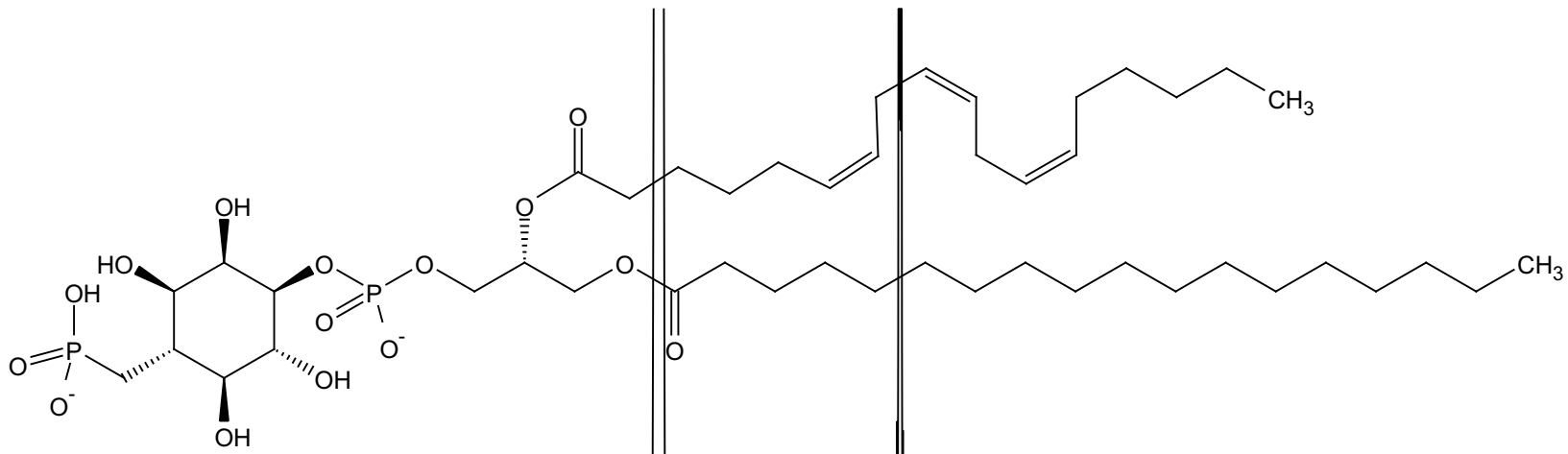


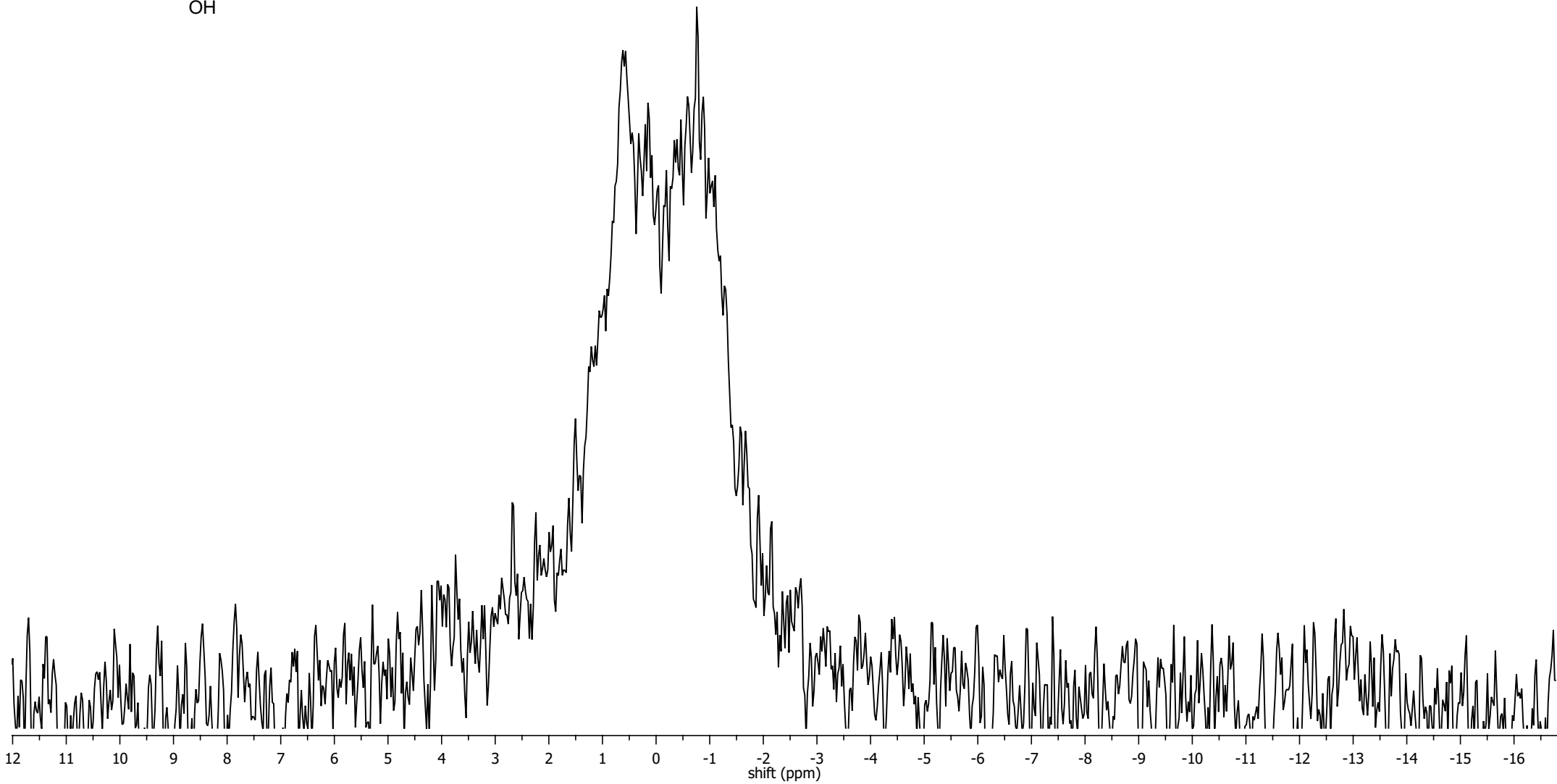
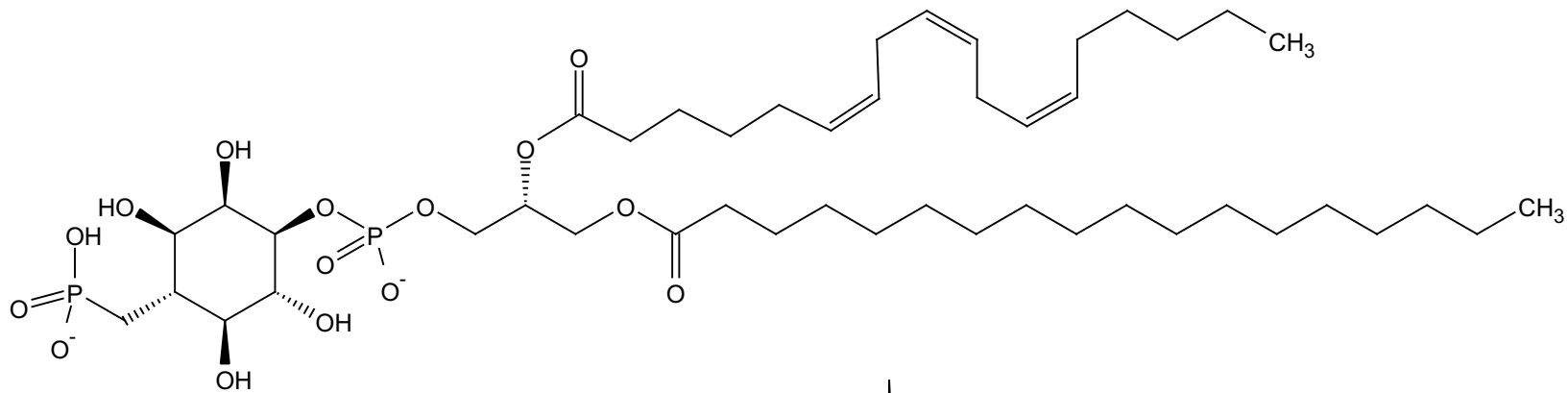


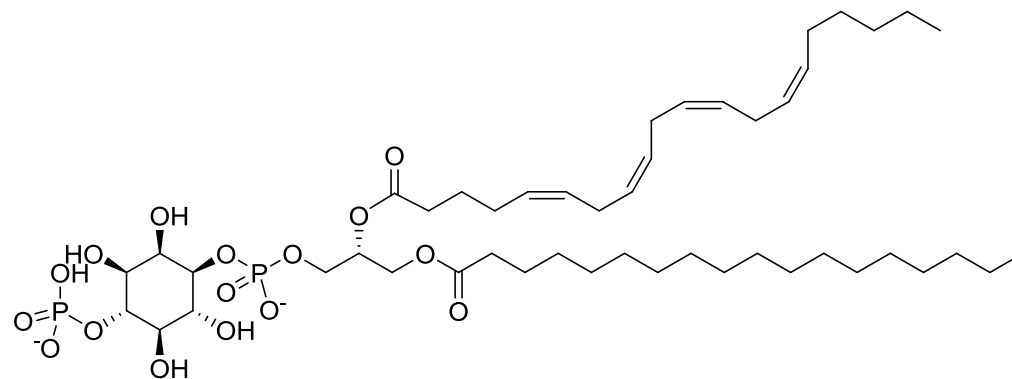


**Stearoyl- $\gamma$ -linolenoyl-phosphatidylinositol-4-phosphate triethylammonium salt, 2c.**

HRMS (ESI-)  $m/z$ , calcd for  $C_{45}H_{87}O_{16}P_2^-$  = 945.5474, found  $[M-H]^-$  945.5505.







**Stearoyl-arachidonoyl-phosphatidylinositol-4-phosphate, triethylammonium salt, 2d.**

HRMS (ESI+)  $m/z$  found  $[M+Na]^+ = 989.5085$ ,  $C_{47}H_{85}O_{16}P_2Na$  requires 989.5143.



