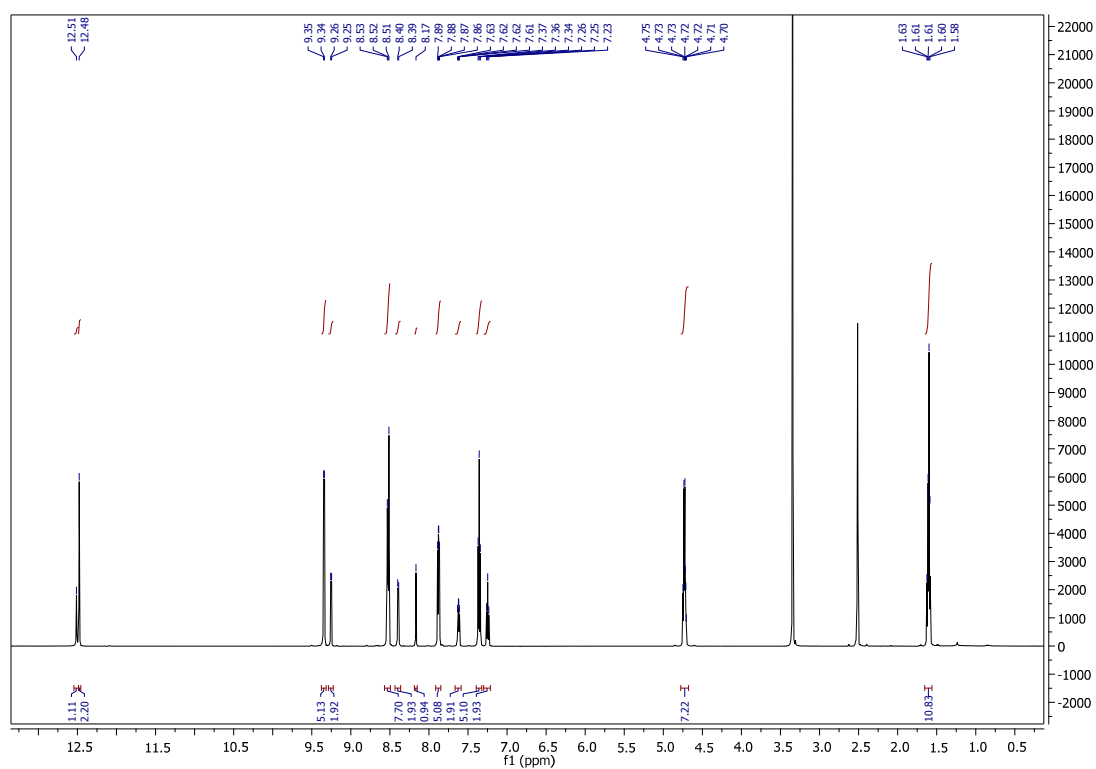
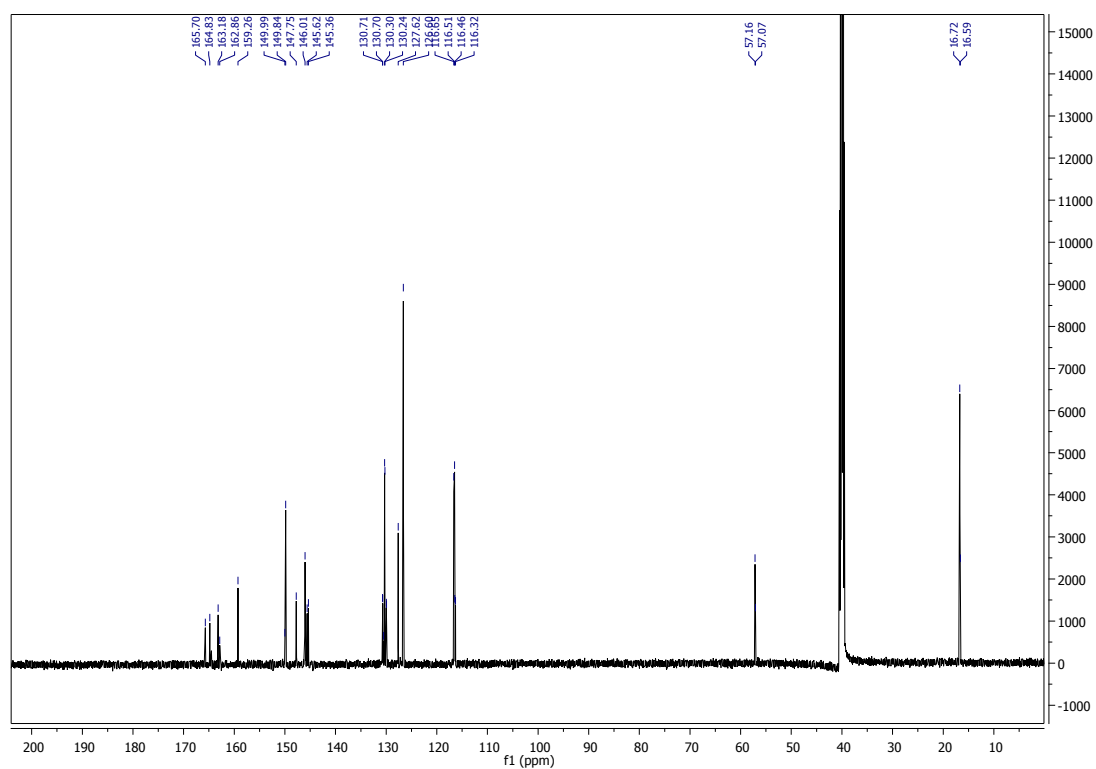
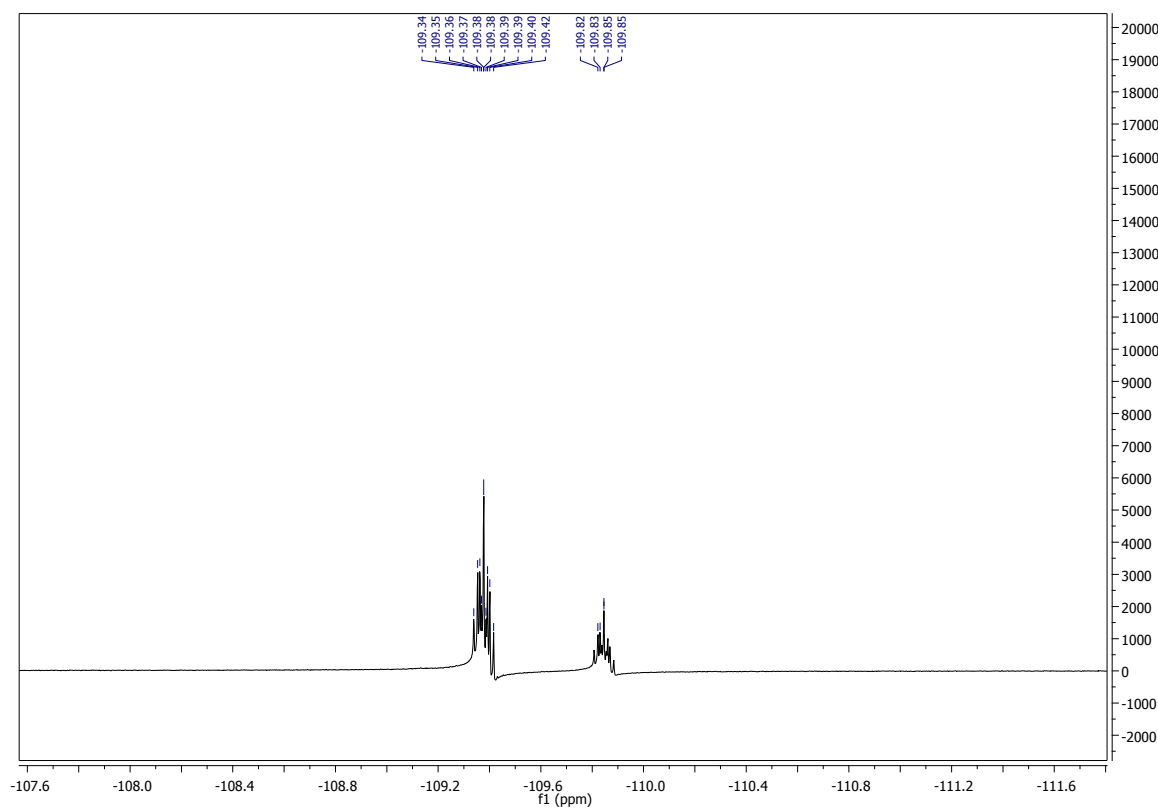


Figure S2. ^{13}C NMR of Compound 3.

Figure S3. ¹H NMR of Compound 5.Figure S4. ¹³C NMR of Compound 5.

Figure S5. ^{19}F NMR of Compound 5.

sdsdls5#06 Rf 1.79 AV 1 SB 109.147221, 116221 N: 3385
T: (0.0) +cBFu[ms[400-1000.0]

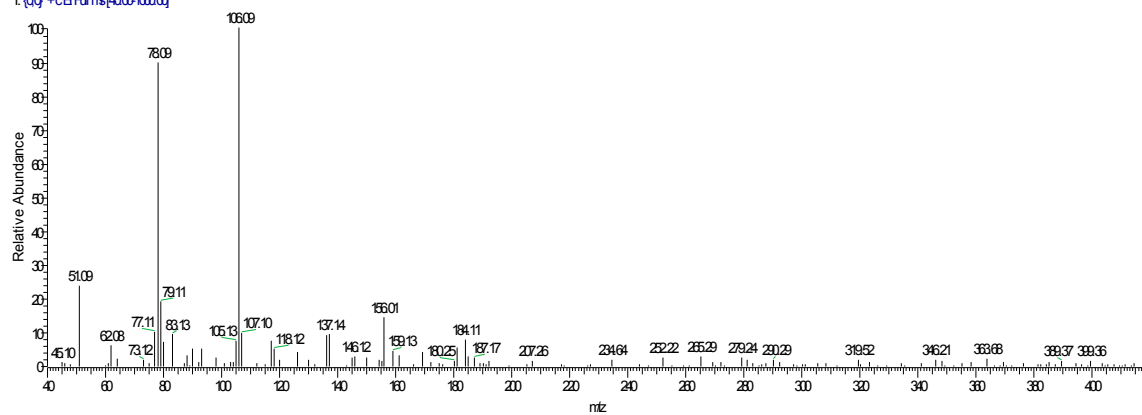
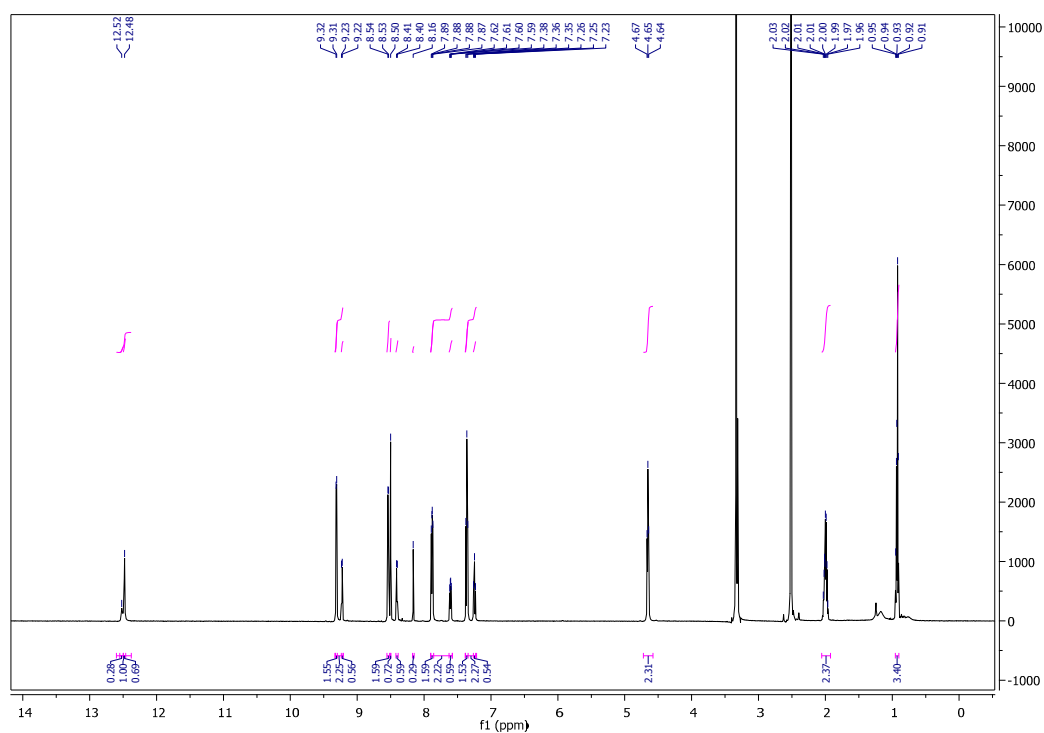
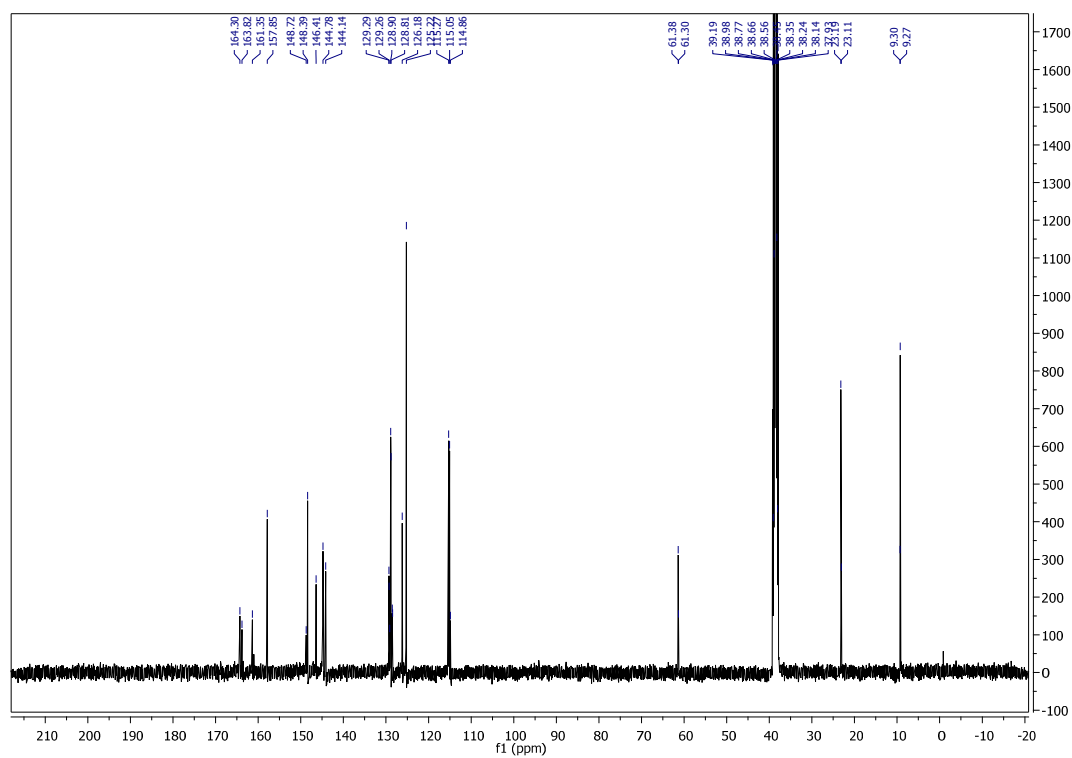


Figure S6. MS (ESI) of Compound 5.

Figure S7. ¹H NMR of Compound 6.Figure S8. ¹³C NMR of Compound 6.

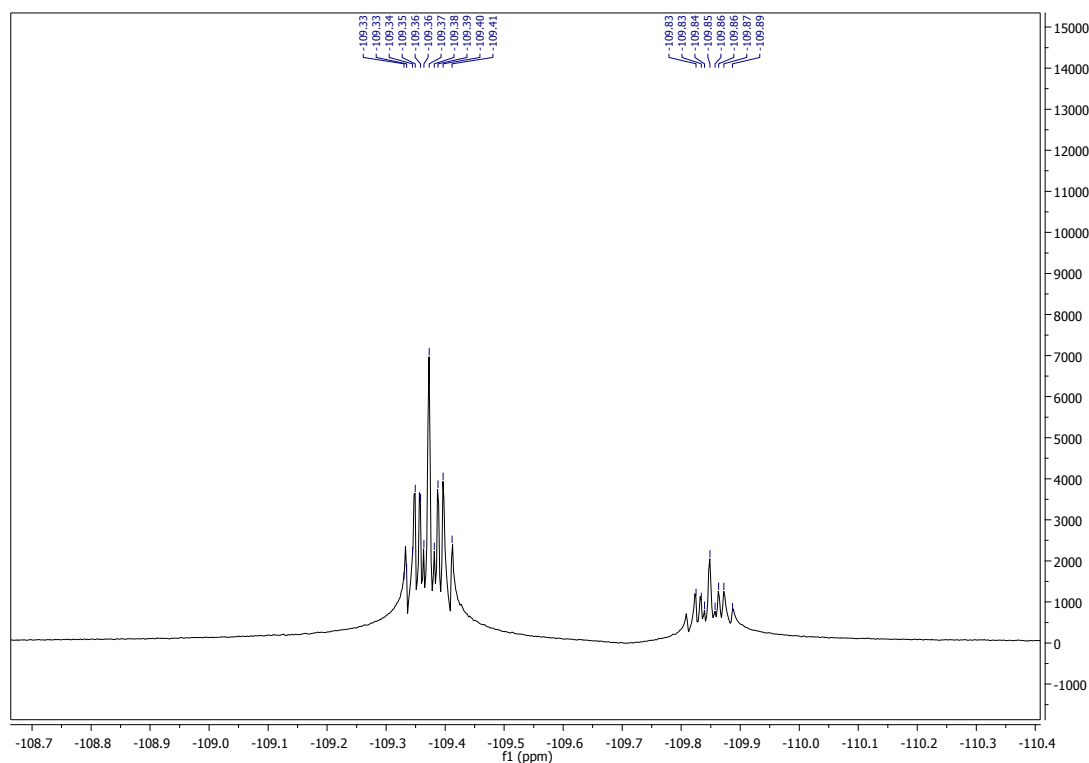
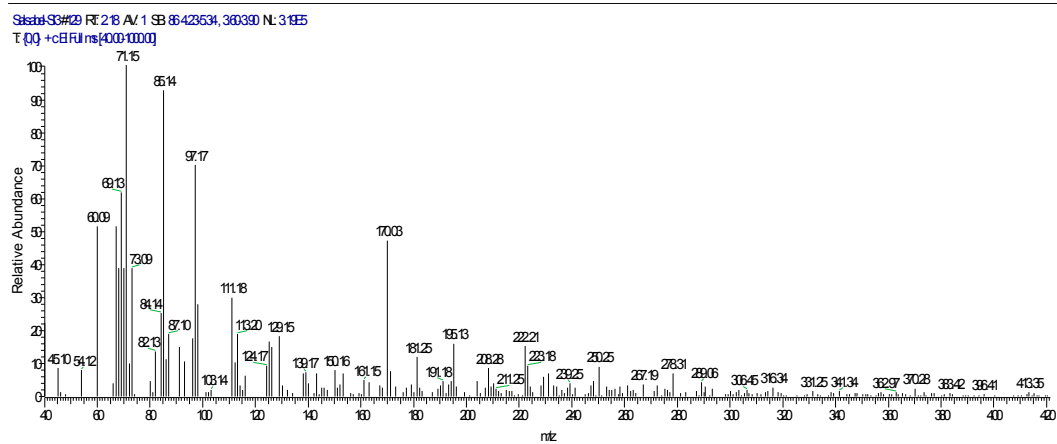
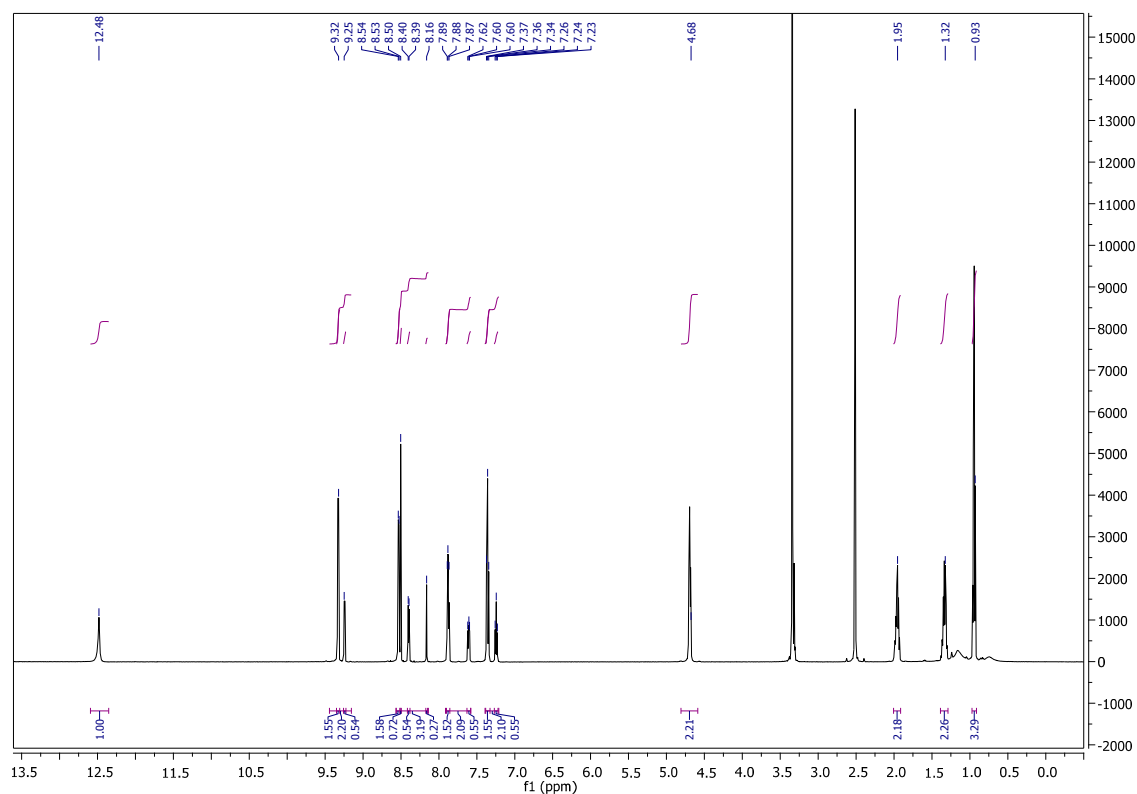
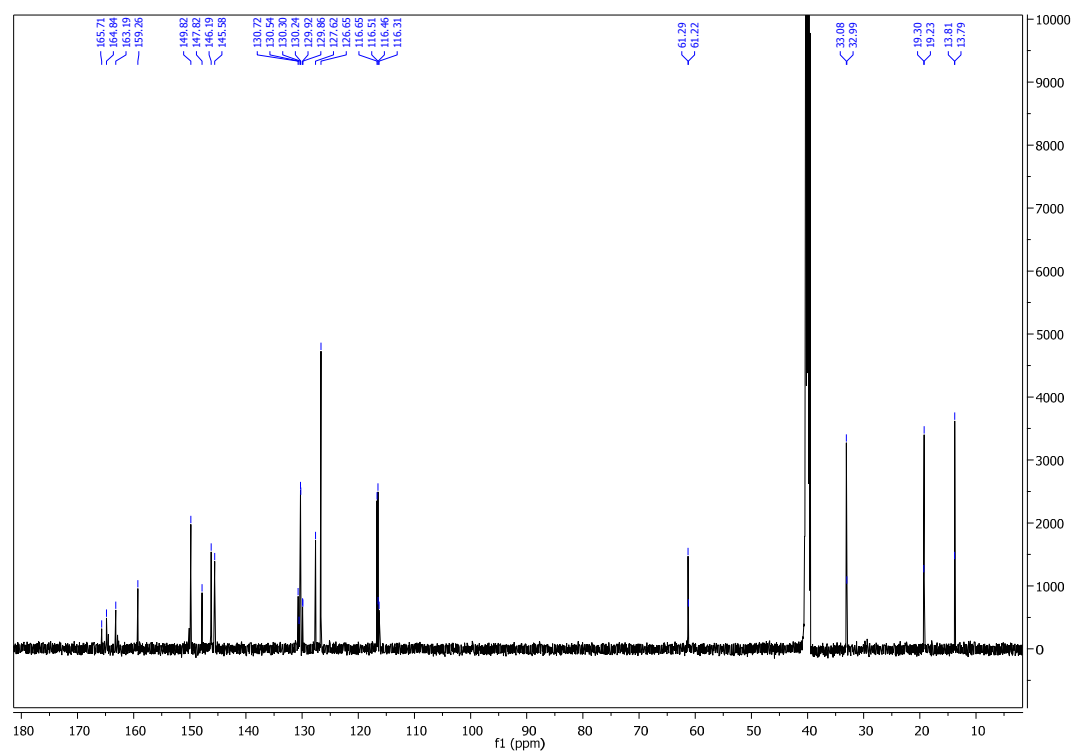
Figure S9. ^{19}F NMR of Compound 6.

Figure S10. MS (ESI) of Compound 6.

Figure S11. ¹H NMR of Compound 7.Figure S12. ¹³C NMR of Compound 7.

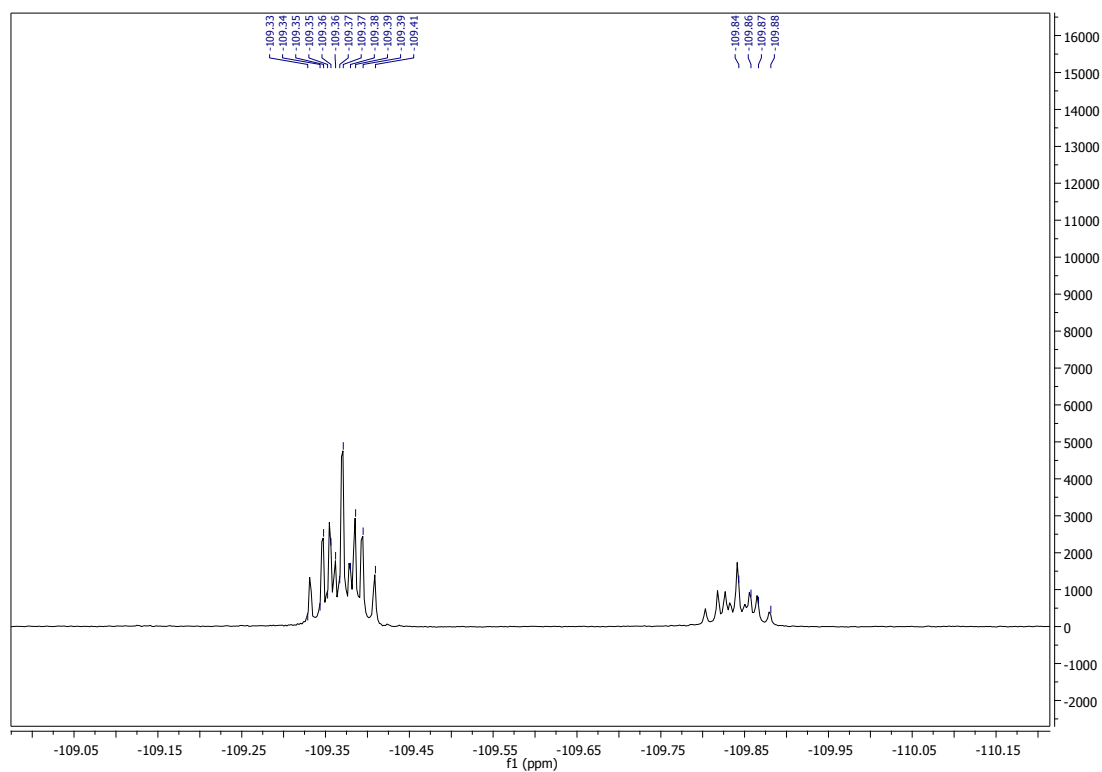
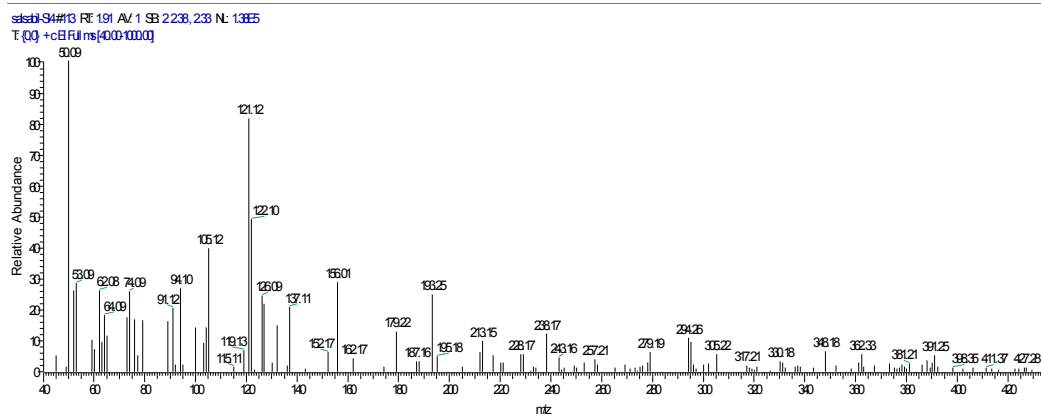
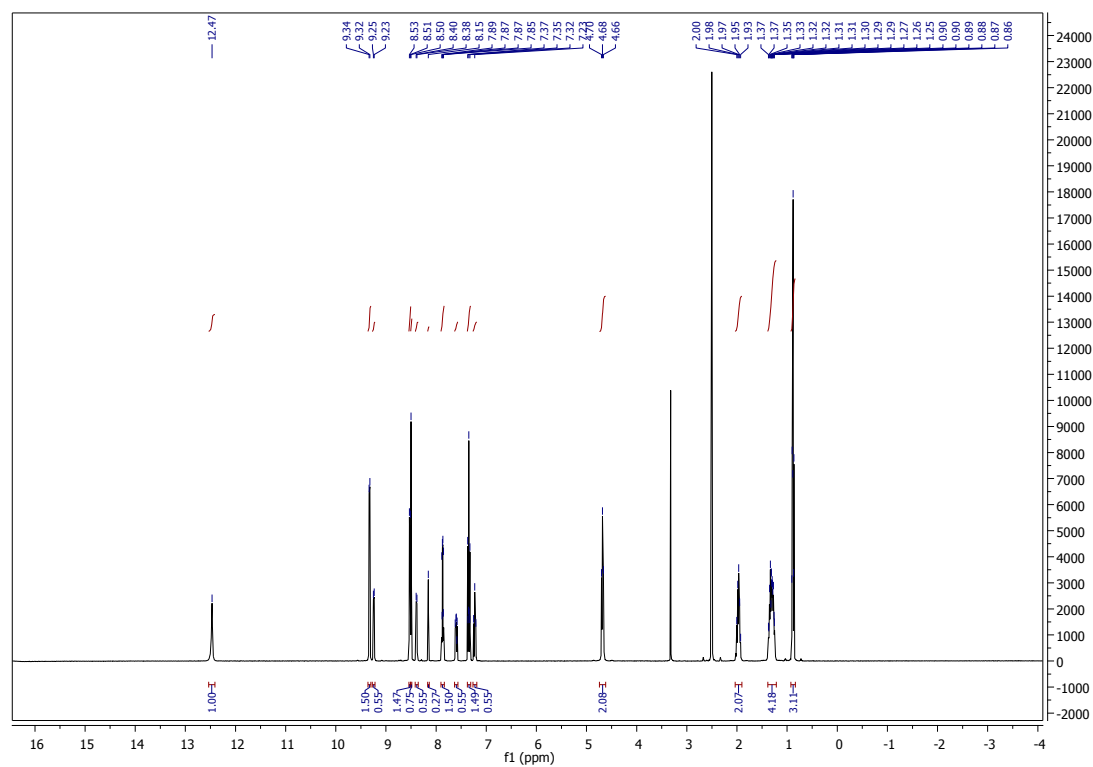
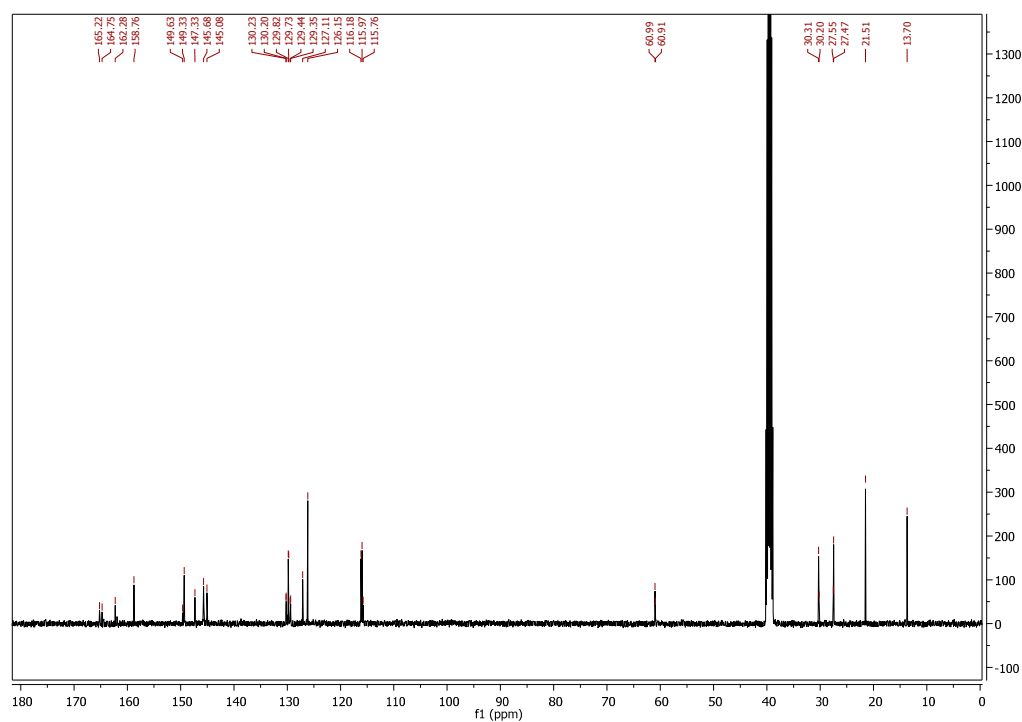
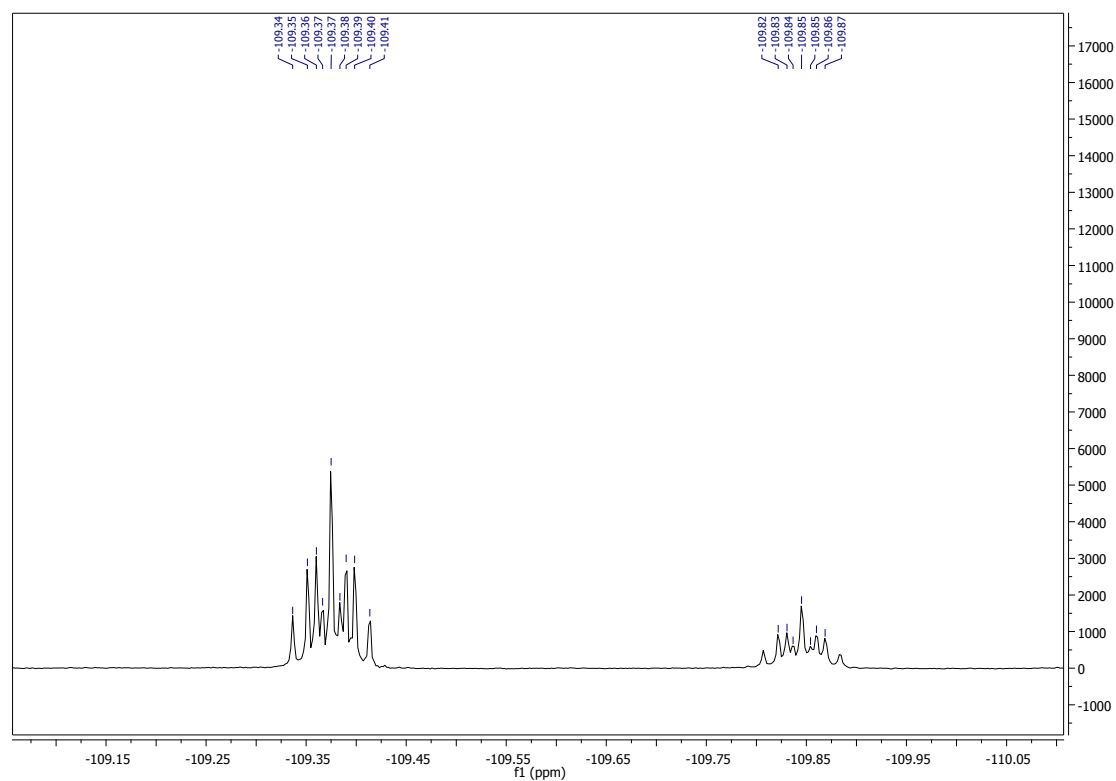
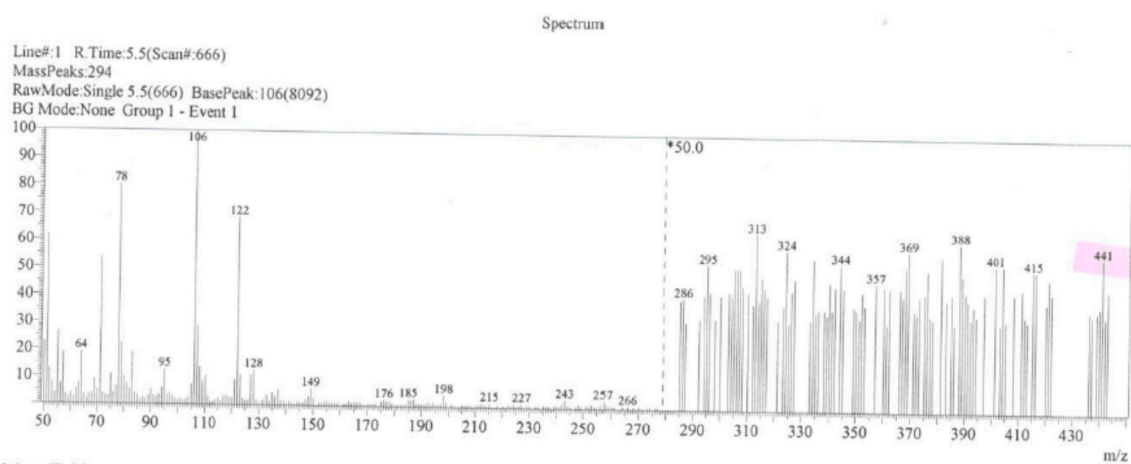
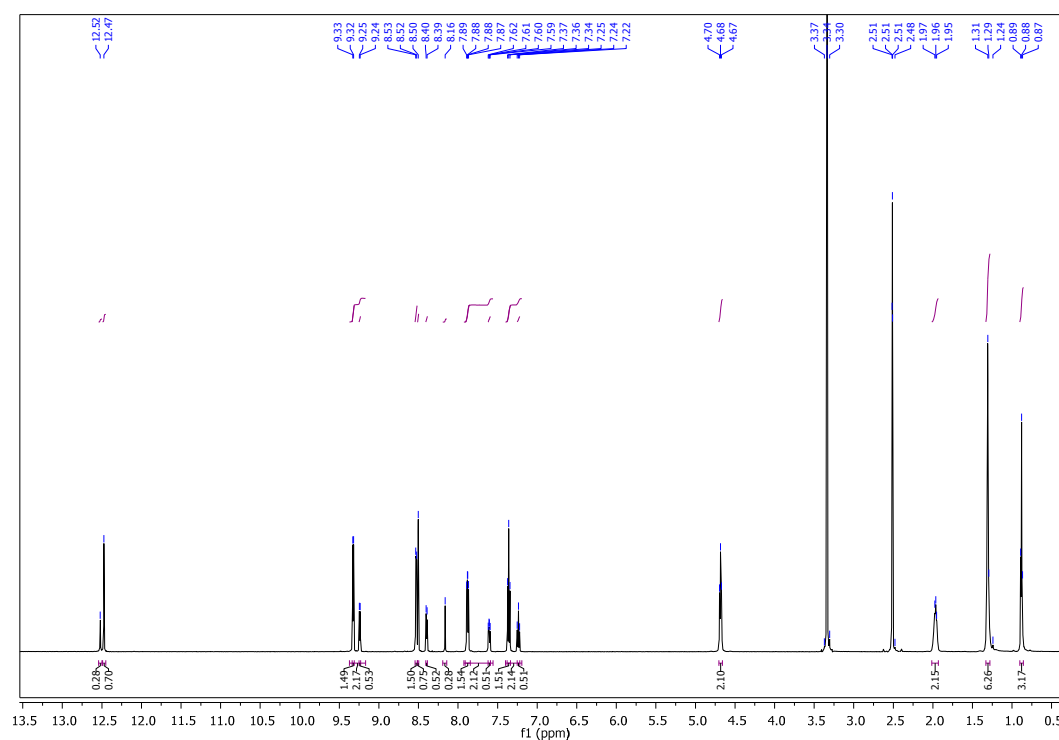
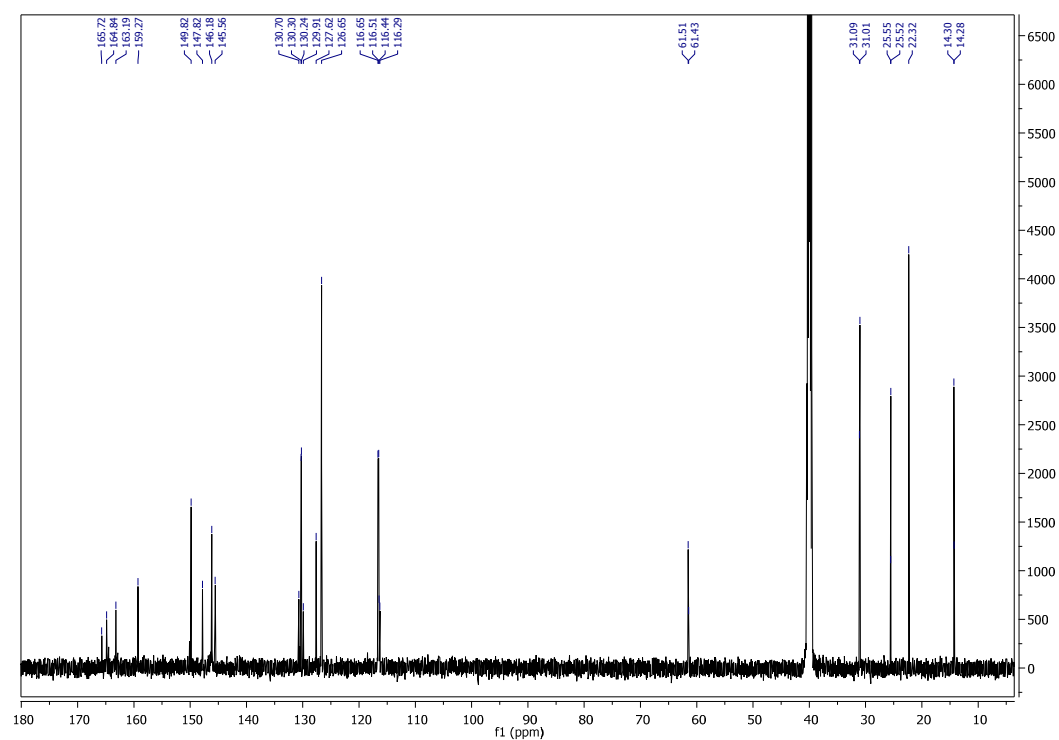
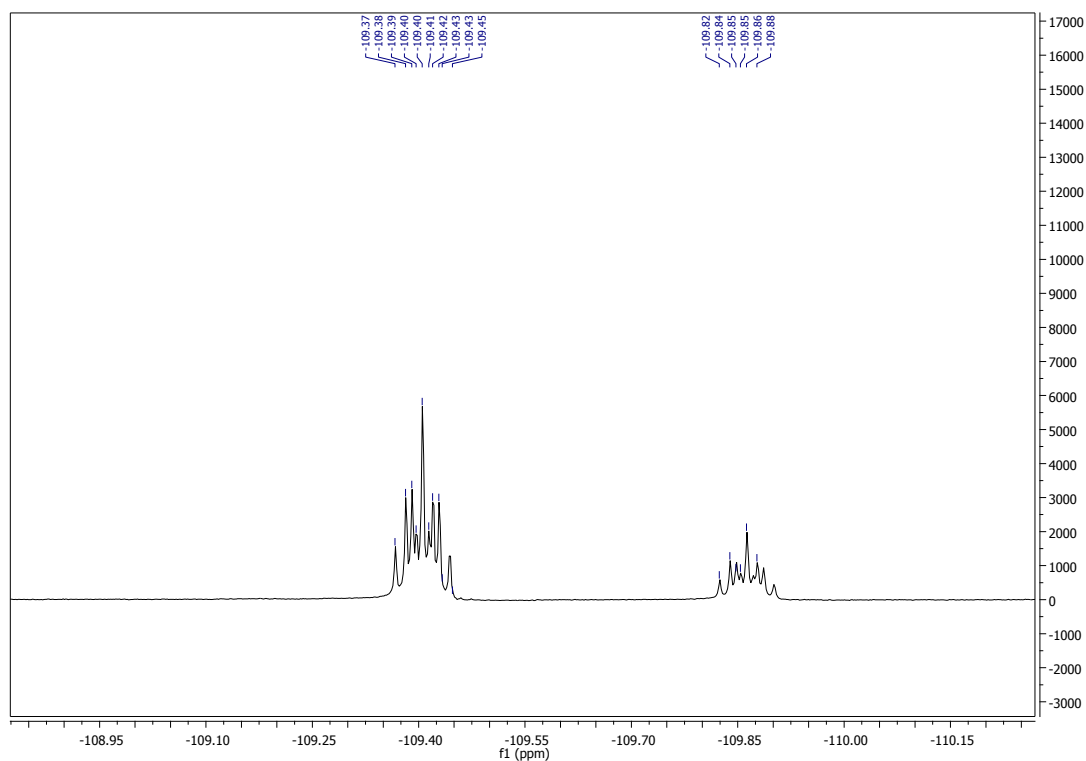
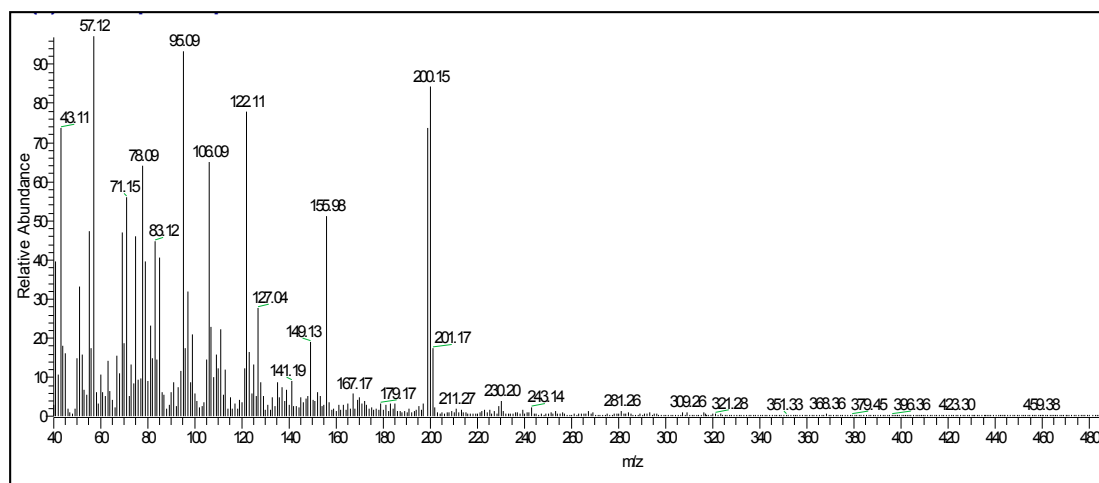
Figure S13. ¹⁹F NMR of Compound 7.

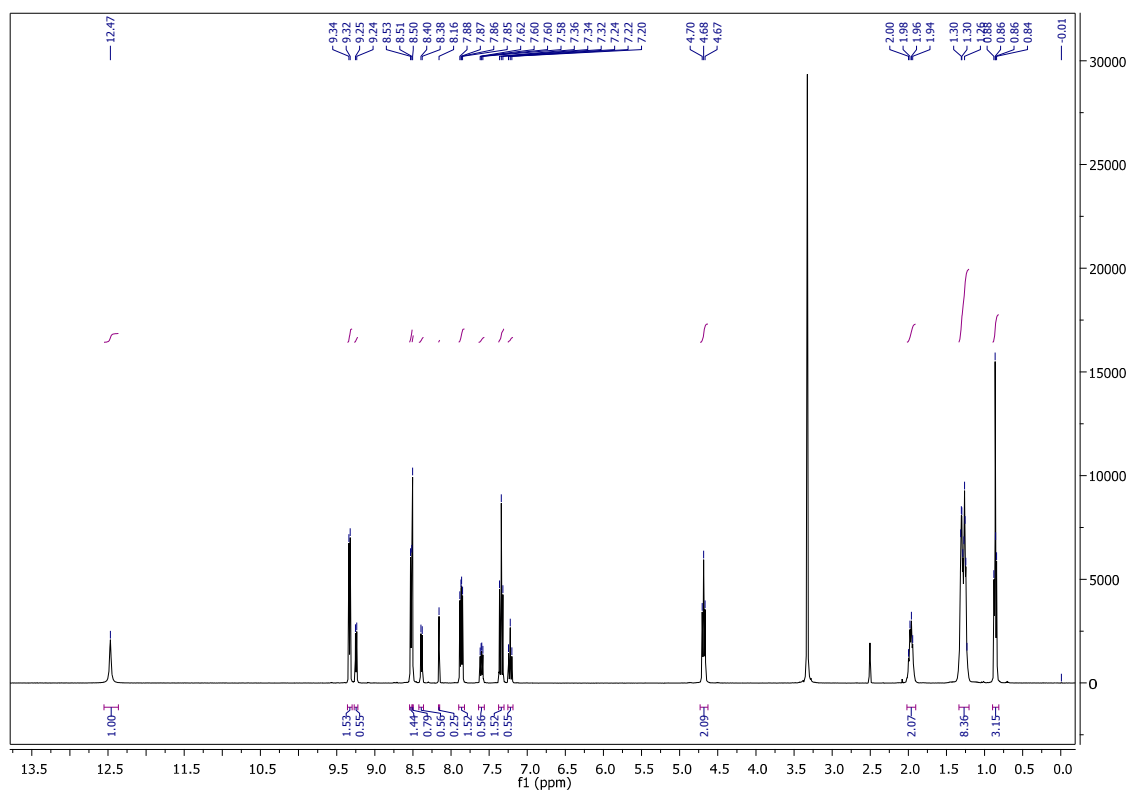
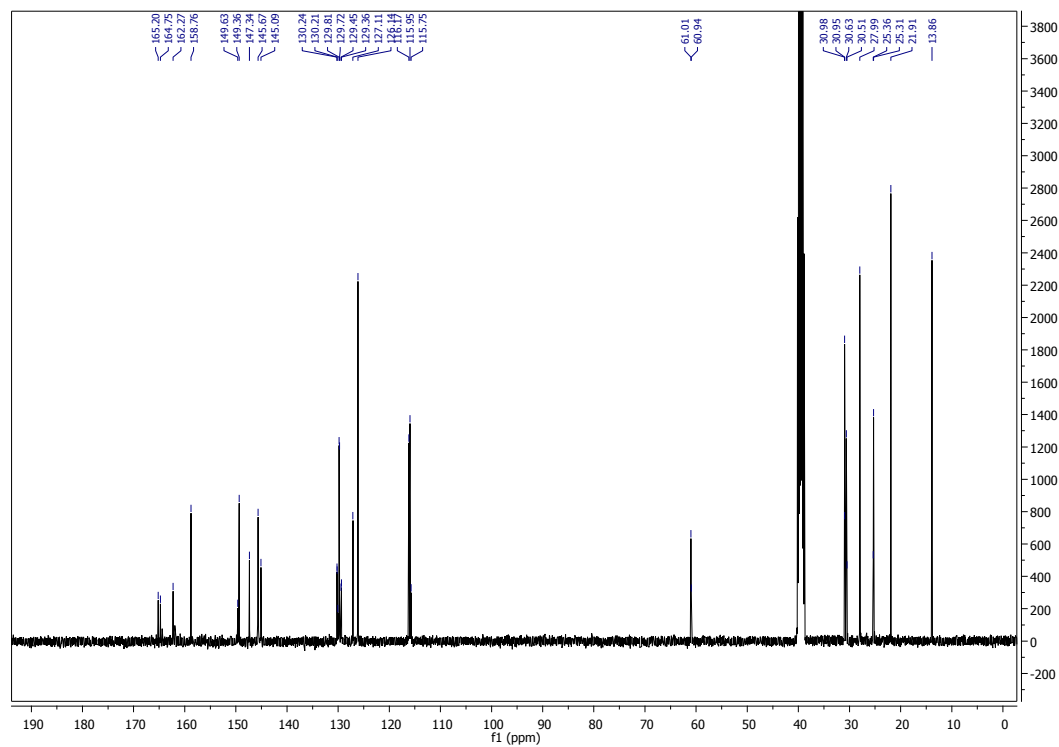
Figure S14. MS (ESI) of Compound 7.

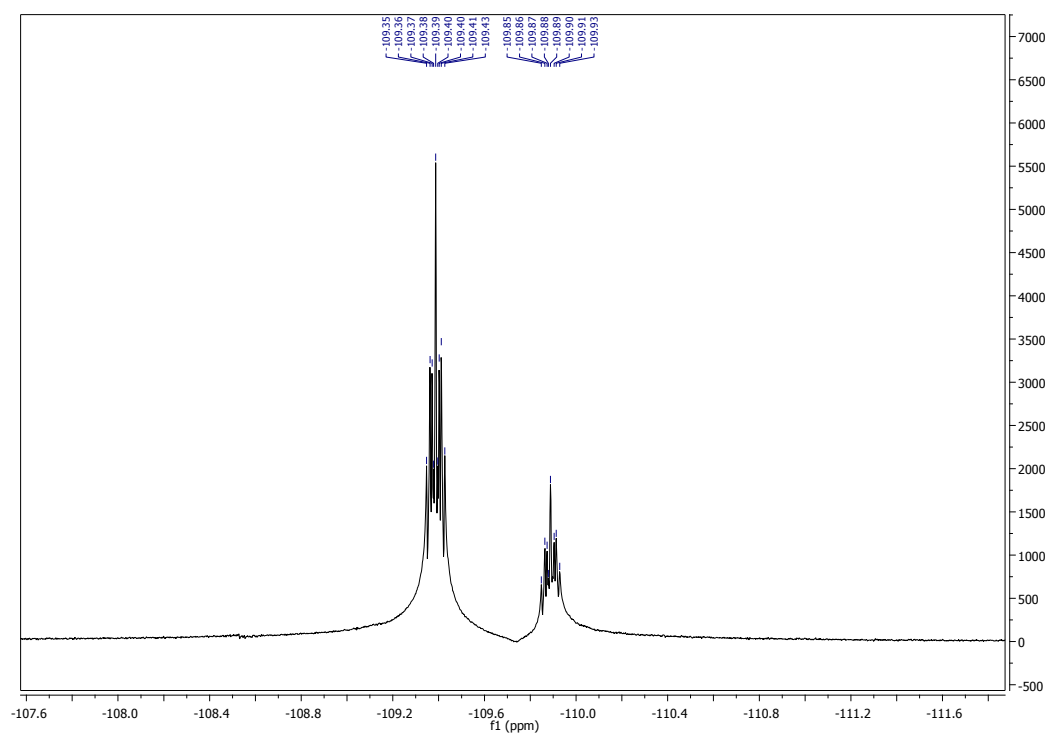
Figure S15. ¹H NMR of Compound 8.Figure S16. ¹³C NMR of Compound 8.

**Figure S17.** ^{19}F NMR of Compound 8.**Figure S18.** MS (ESI) of Compound 8.

Figure S19. ¹H NMR of Compound 9.Figure S20. ¹³C NMR of Compound 9.

**Figure S21.** ¹⁹F NMR of Compound 9.**Figure S22.** MS (ESI) of Compound 9.

Figure S23. ¹H NMR of Compound 10.Figure S24. ¹³C NMR of Compound 10.

Figure S25. ^{19}F NMR of Compound 10.

Sample S7#24 RT: 4.27 min. 1 SB: 121 509586, 467589 N: 3388
T: 0.0 +cBFull.ms[400-1000.0]

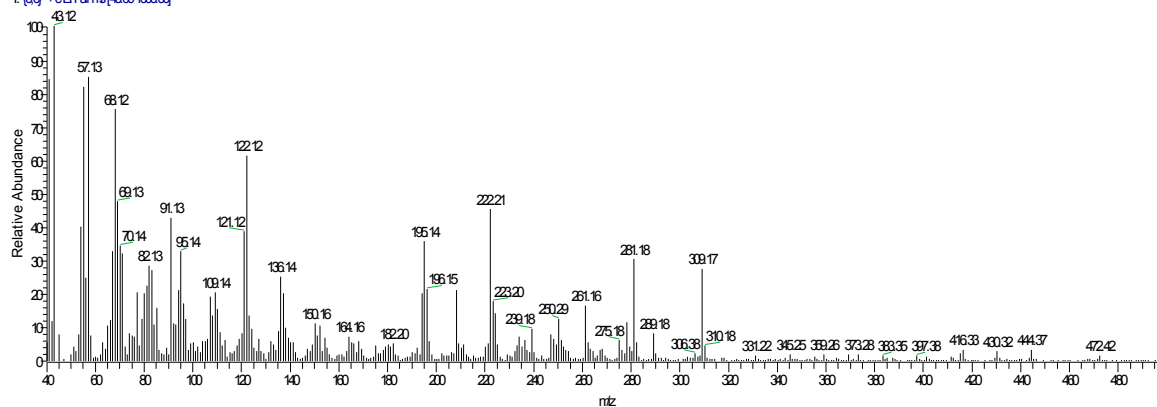
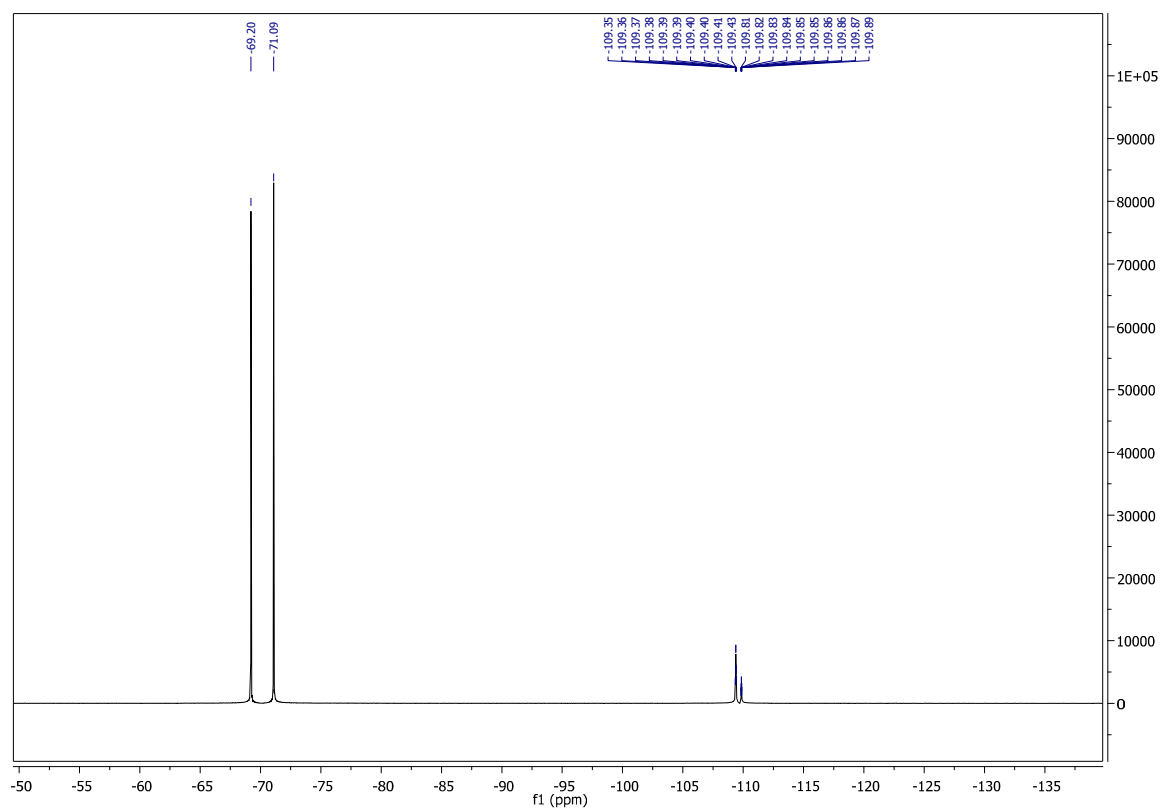
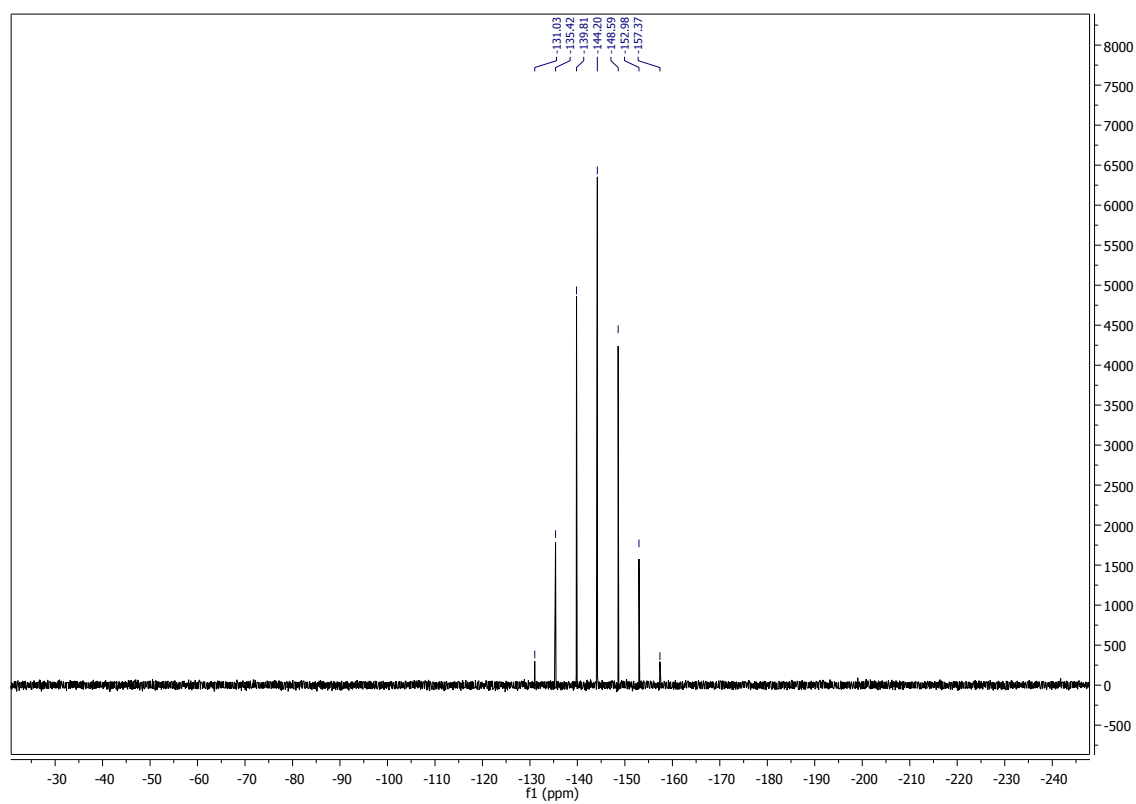


Figure S26. MS (ESI) of Compound 10.



Figure S29. ¹⁹F NMR of Compound 11.Figure S30. ³¹P NMR of Compound 11.

Salsabel-SM17 #153 RT: 2.58 AV: 1 SB: 70 2.39-2.80, 2.21-2.95 NL: 9.58E4
T: [0.0] +c EI Full ms [40.00-1000.00]

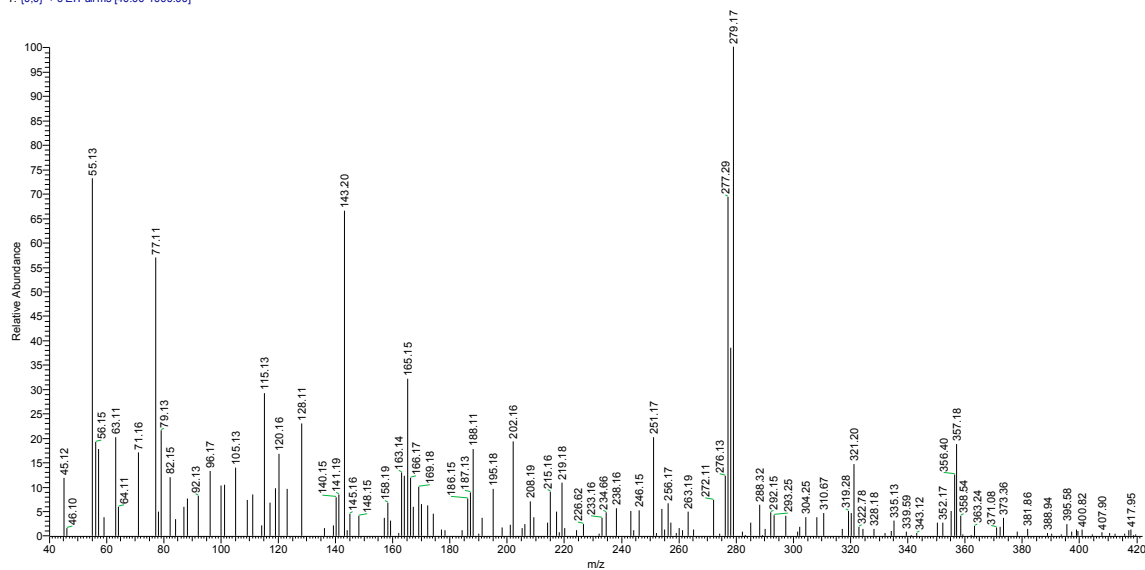


Figure S31. MS (ESI) of Compound 11.

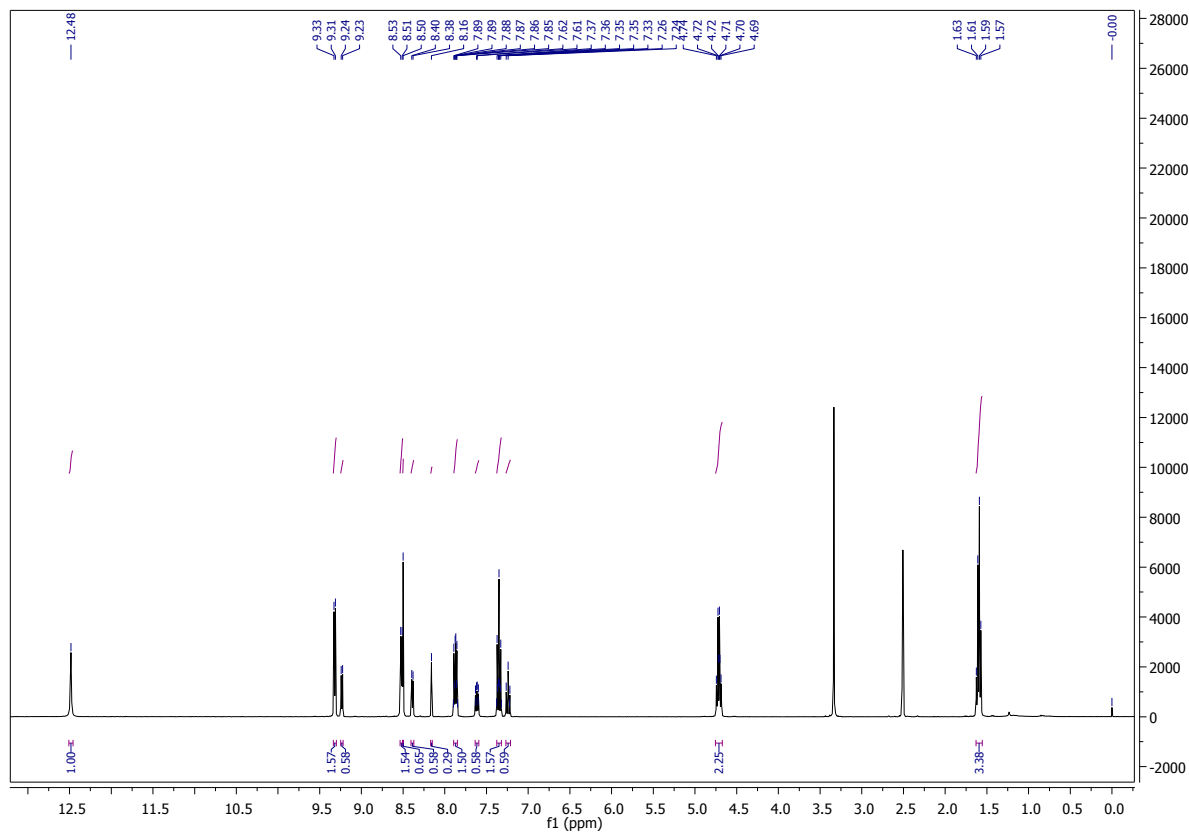
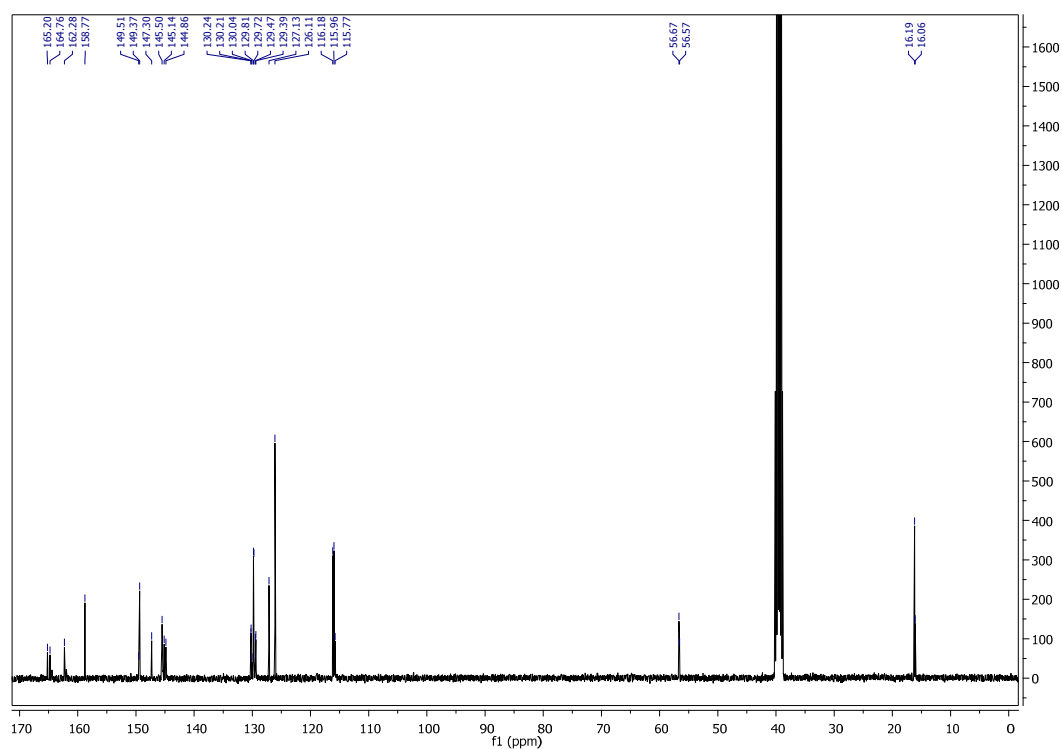
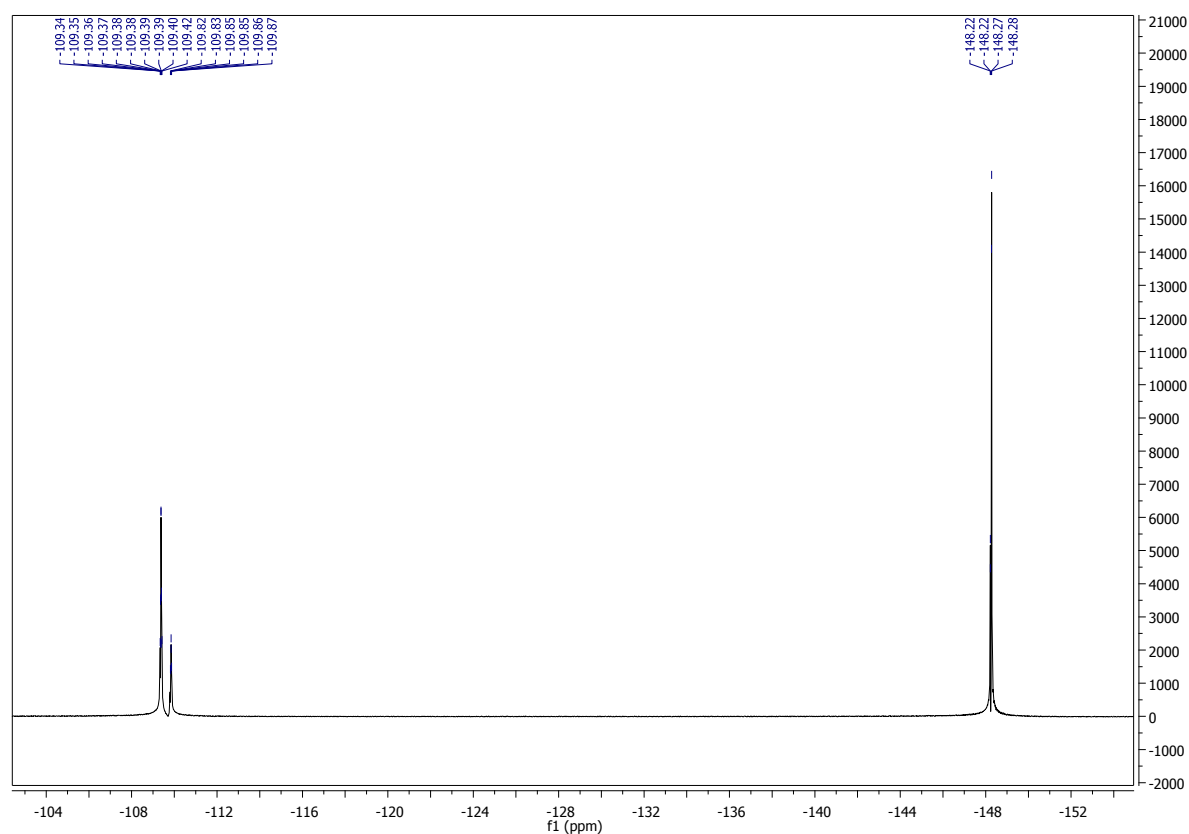
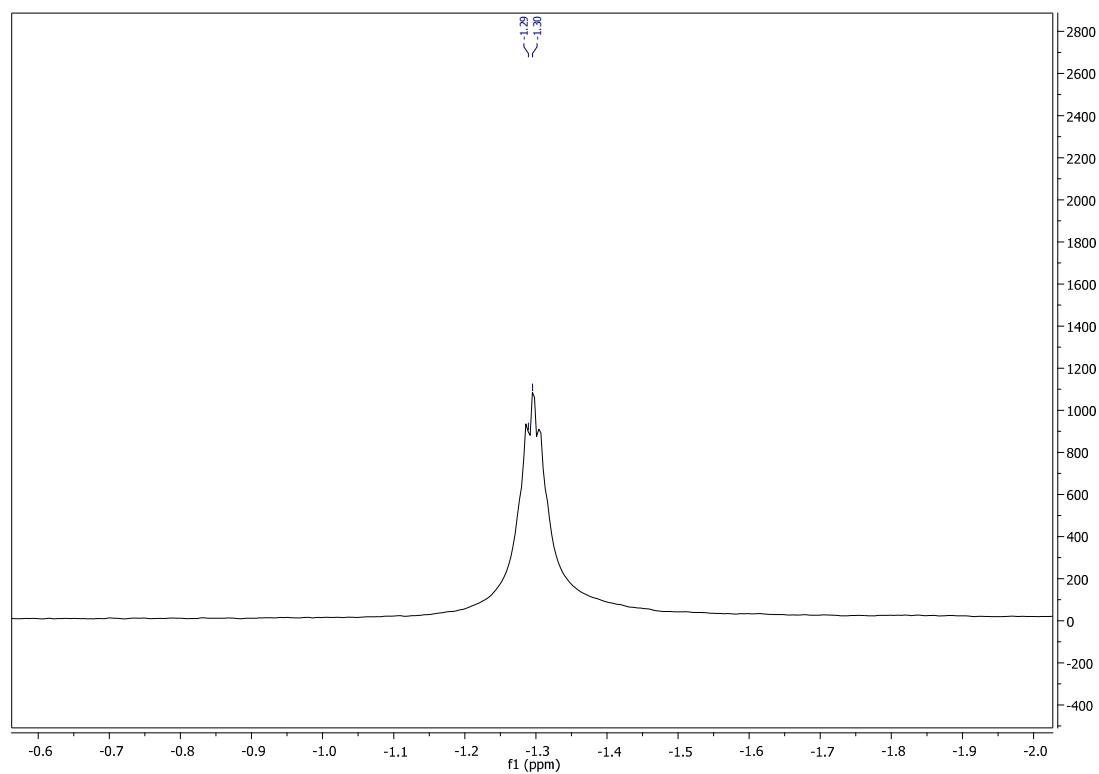


Figure S32. ¹H NMR of Compound 12.

Figure S33. ¹³C NMR of Compound 12.Figure S34. ¹⁹F NMR of Compound 12.

Figure S35. ^{11}B NMR of Compound 12.

saieabil-sm16 #115 RT: 1.94 AV: 1 SB: 105 0.85-1.98, 0.92-1.52 NL: 1.04E6
T: [0.0] + c EI Full ms [40.00-1000.00]

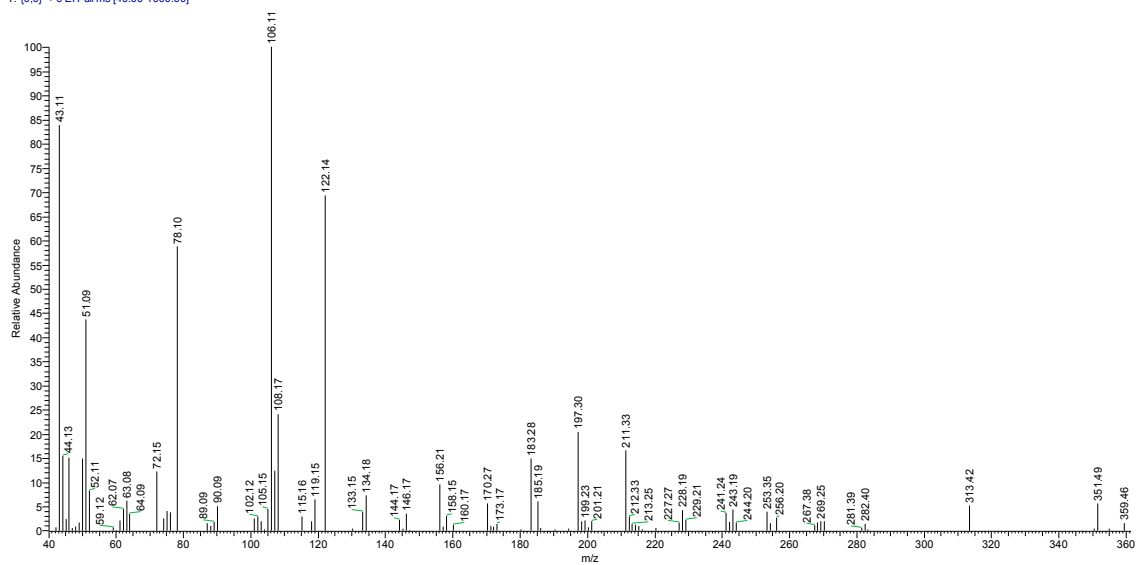
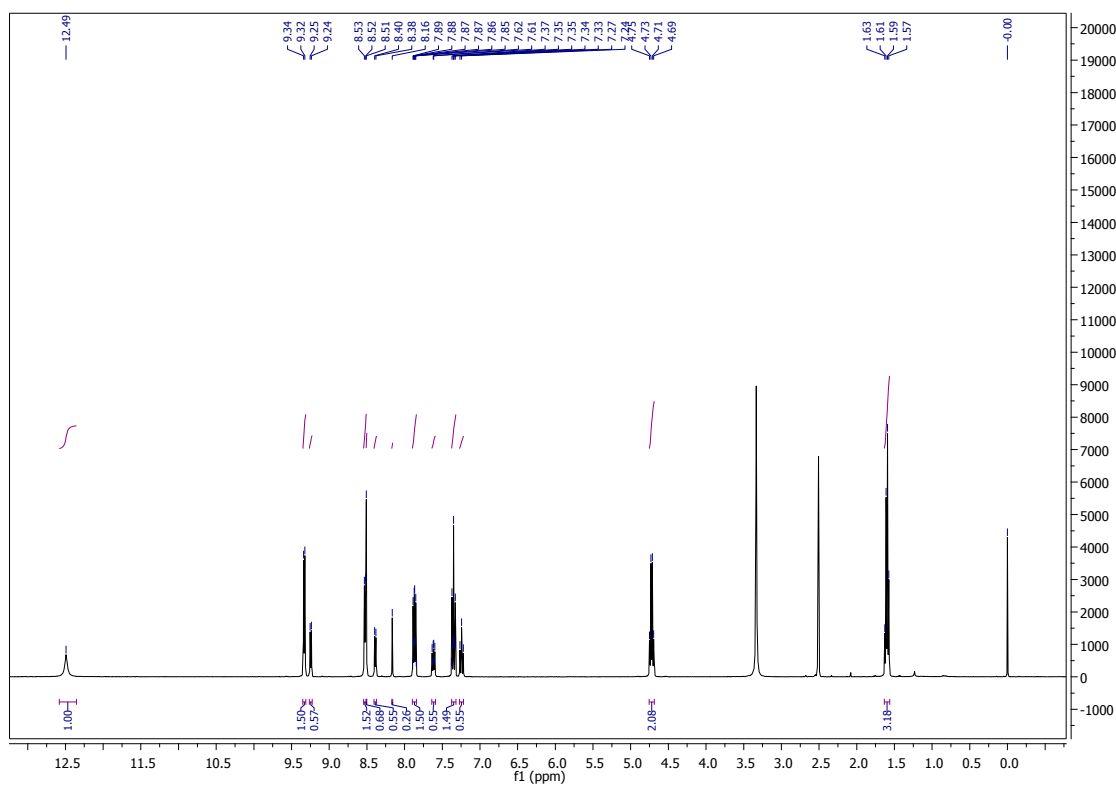
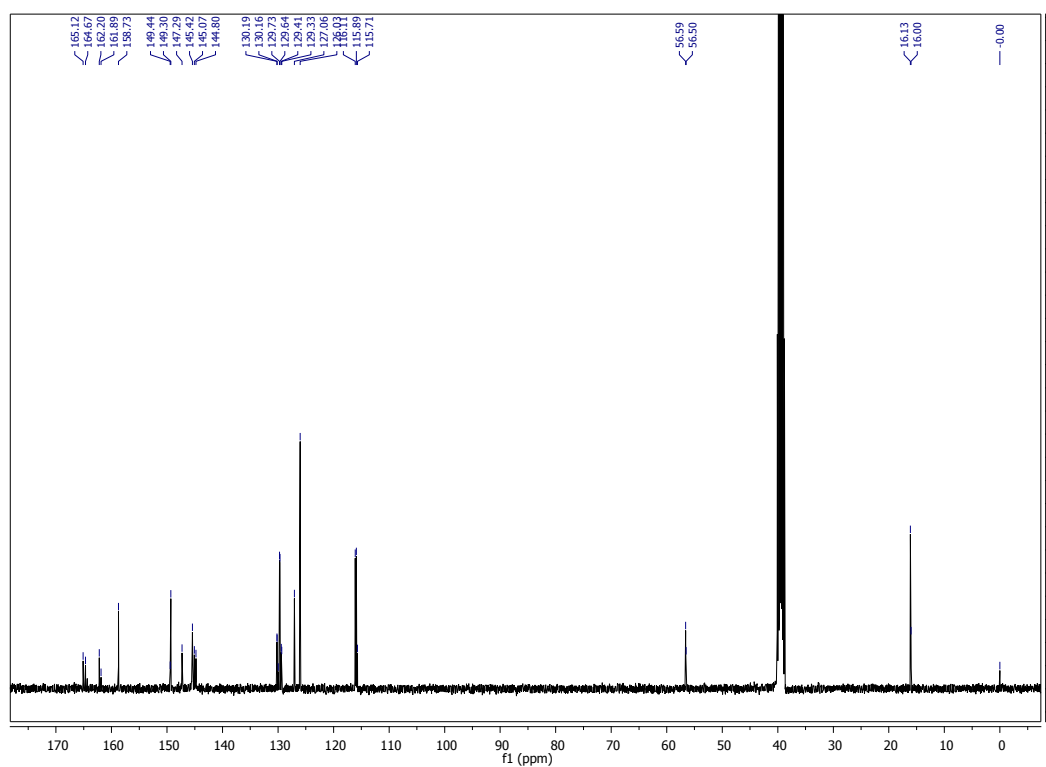
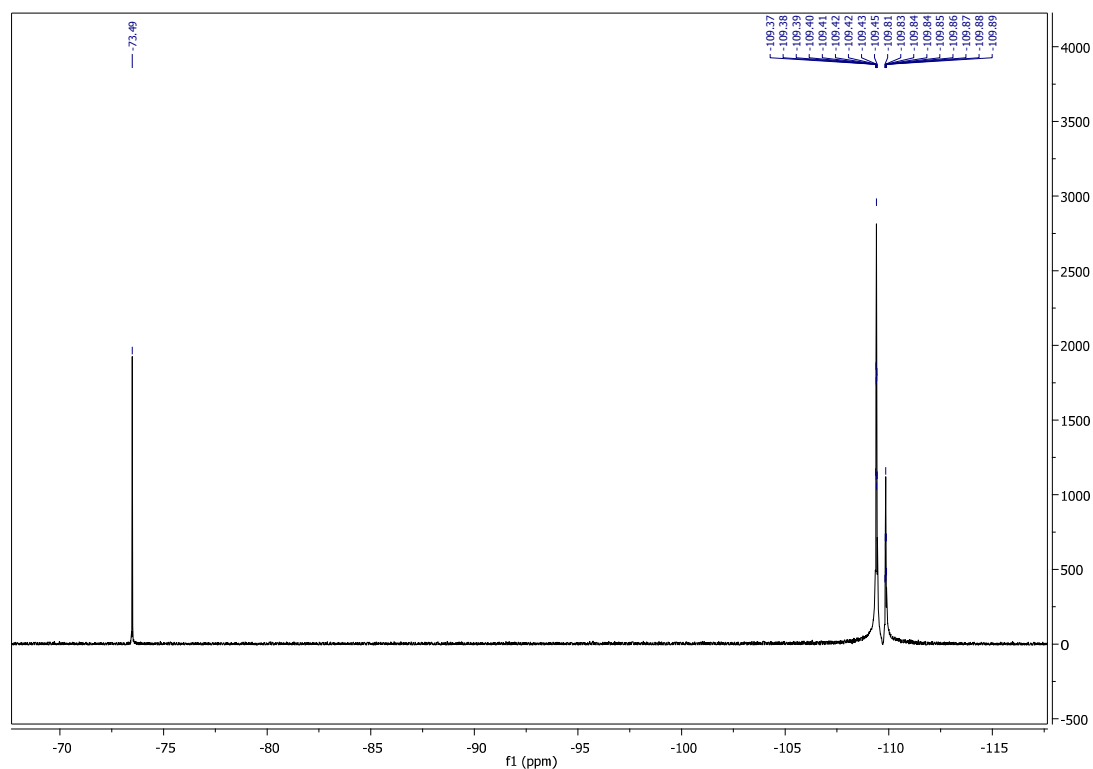


Figure S36. MS (ESI) of Compound 12.

Figure S37. ¹H NMR of Compound 13.Figure S38. ¹³C NMR of Compound 13.

Figure S39. ¹⁹F NMR of Compound 13.

Saksabel-SM20#190 RT: 3.20 AV: 1 SB: 159 2.69-3.28, 1.91-3.95 NL: 8.91E4
T: (0.0) + cEI Full.ms [40.00-1000.00]

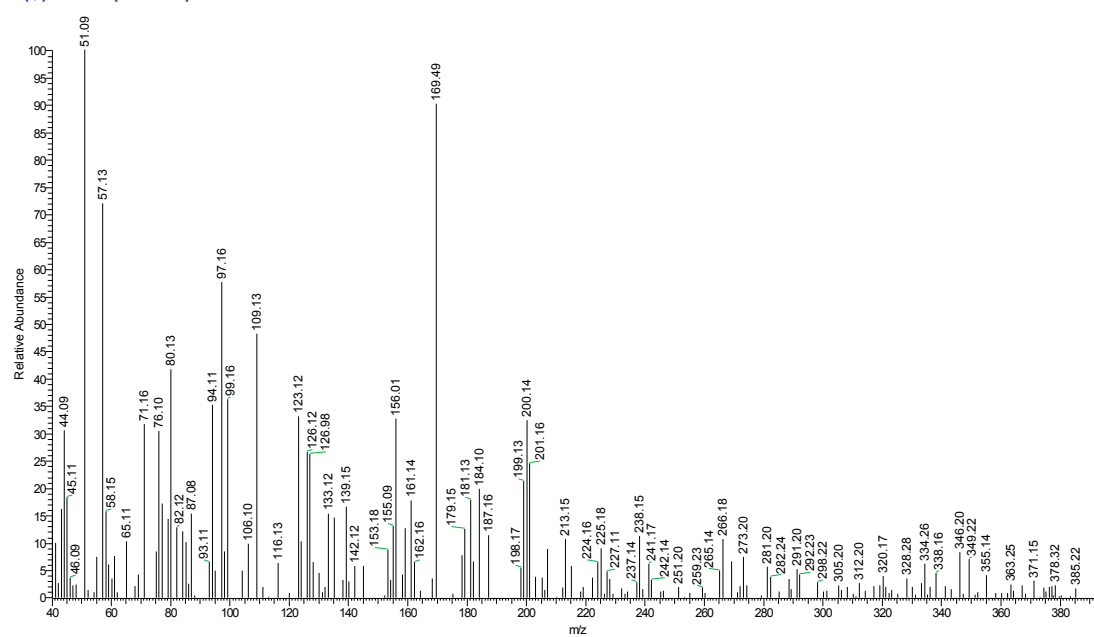
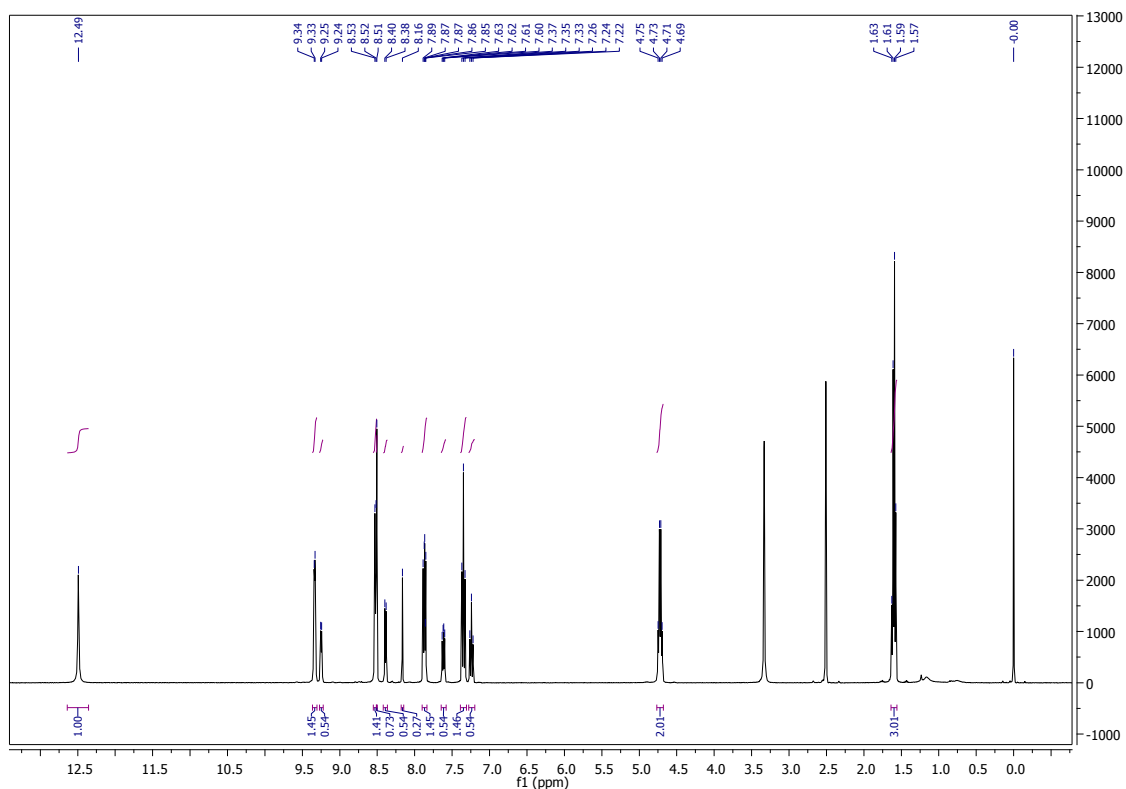
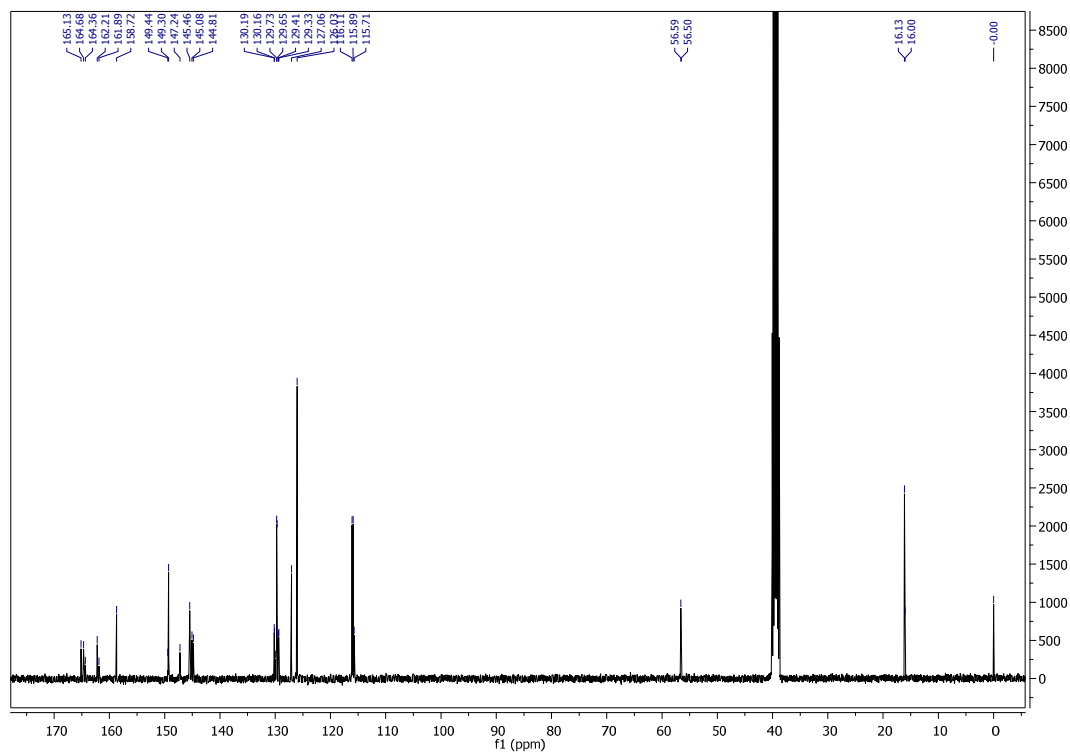


Figure S40. MS (ESI) of Compound 13.

Figure S41. ¹H NMR of Compound 14.Figure S42. ¹³C NMR of Compound 14.

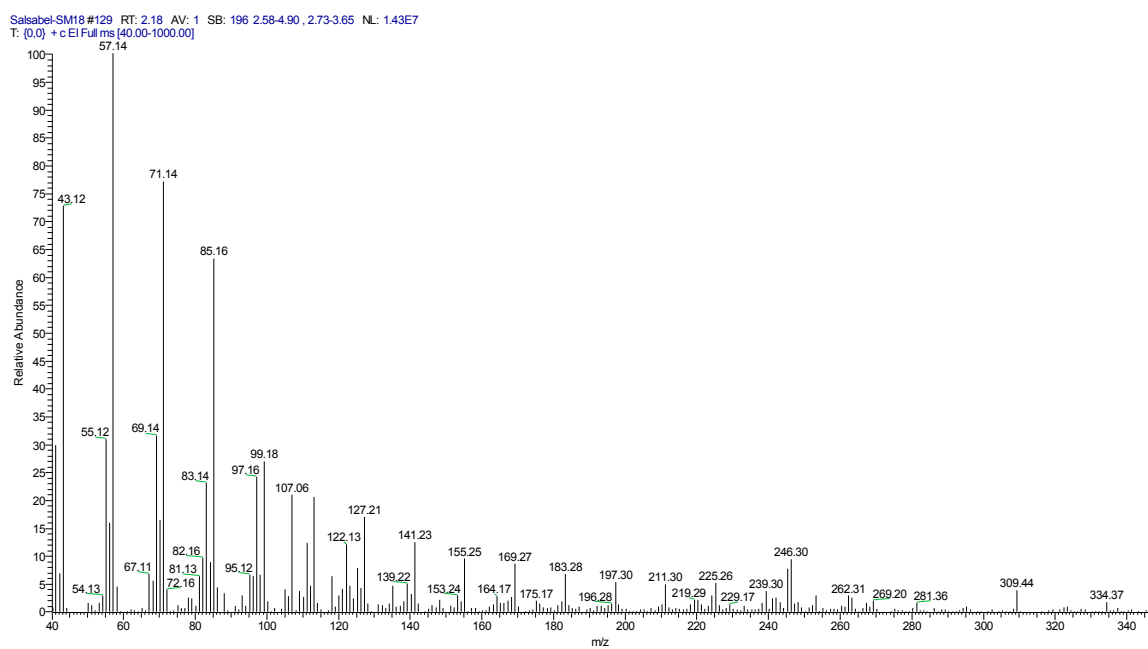
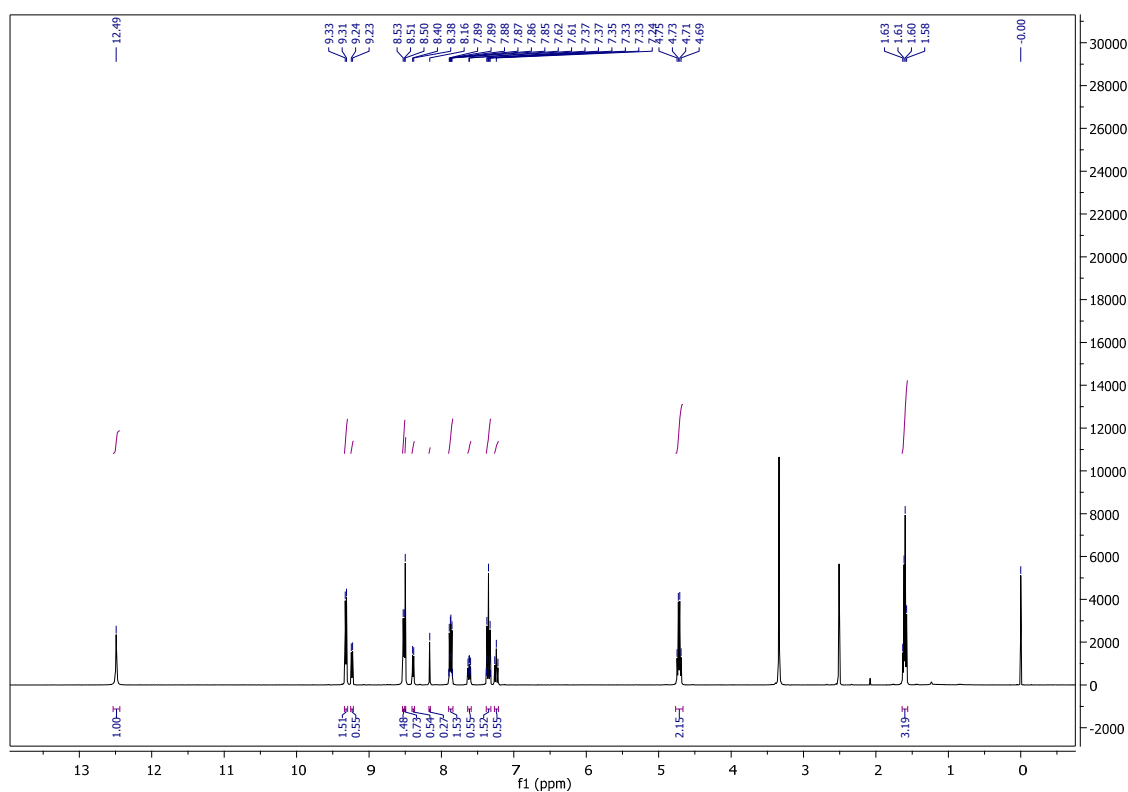


Figure S43. MS (ESI) of Compound 14.

Figure S44. ¹H NMR of Compound 15.

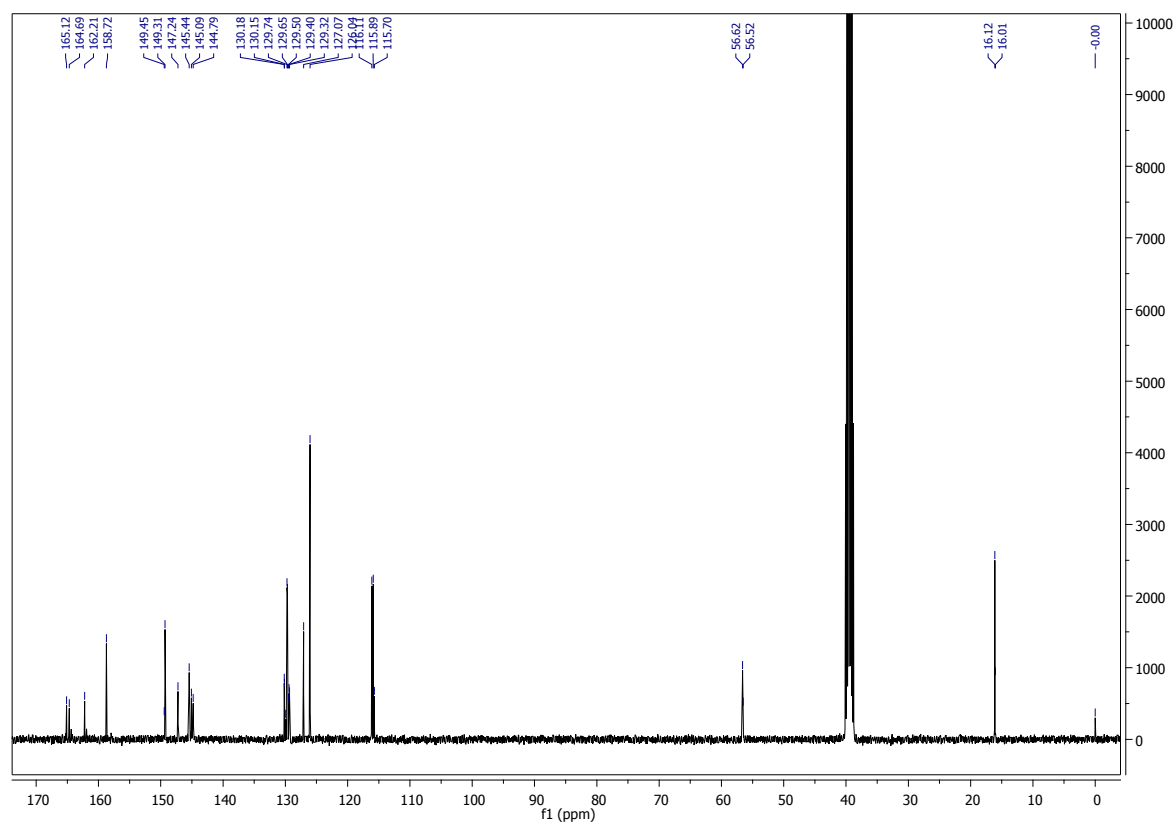
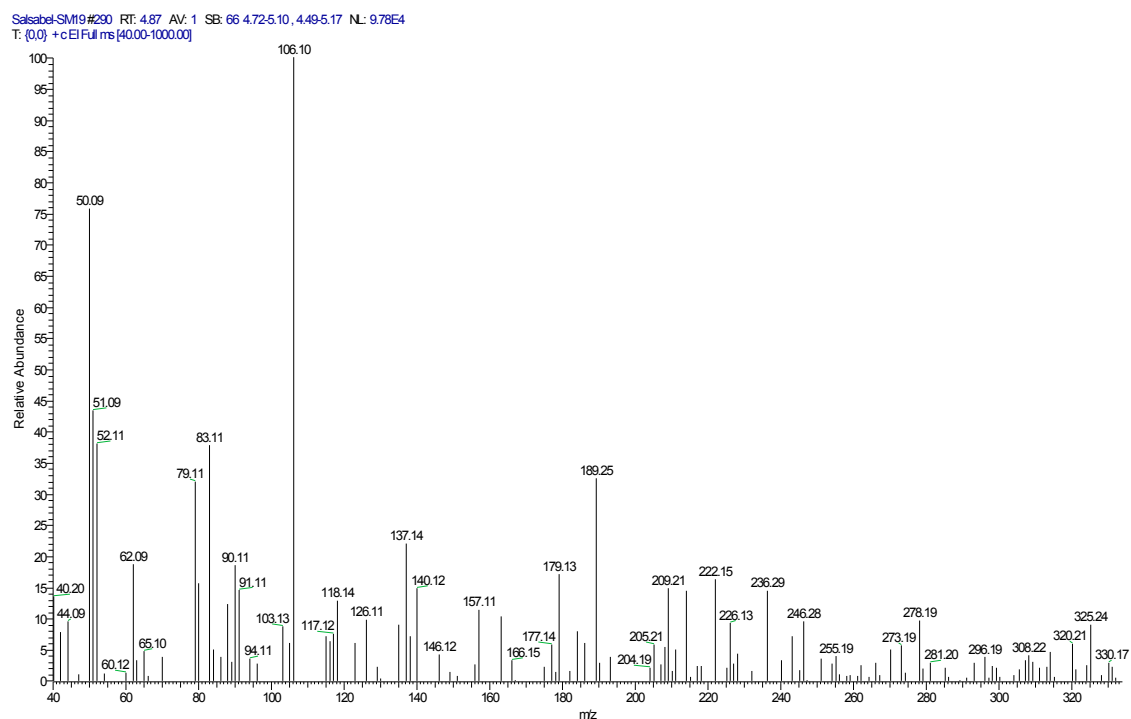
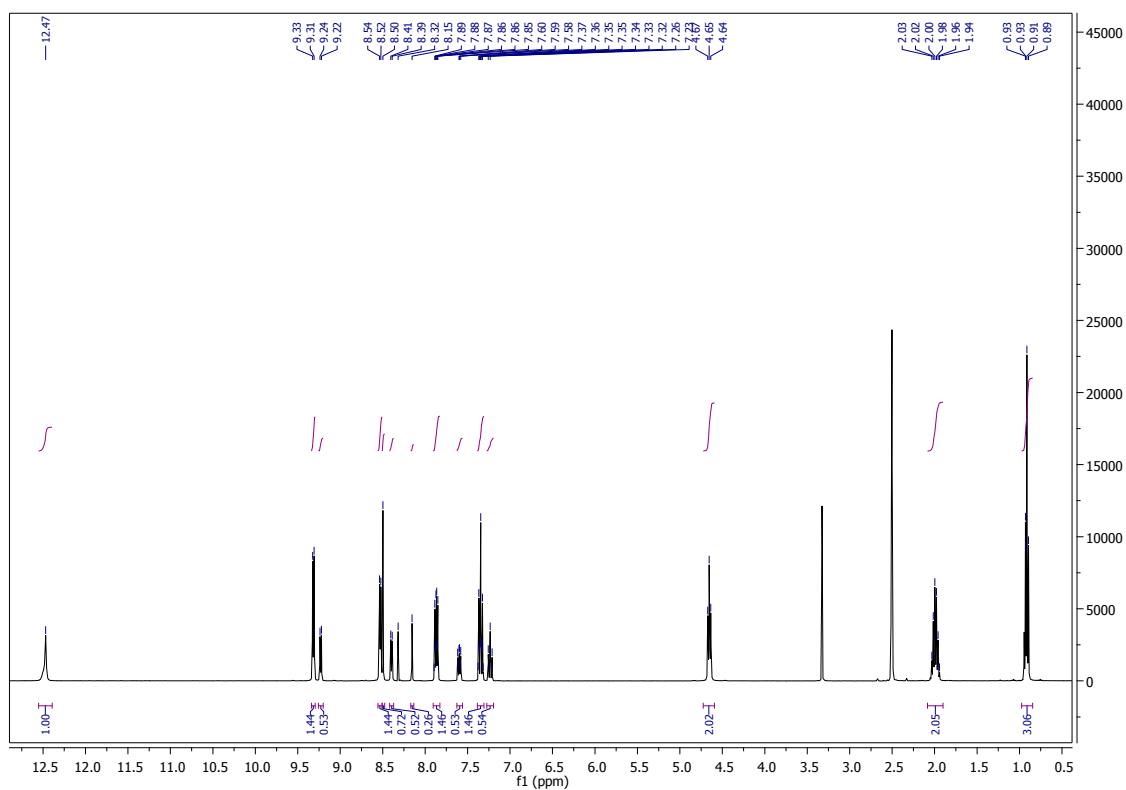
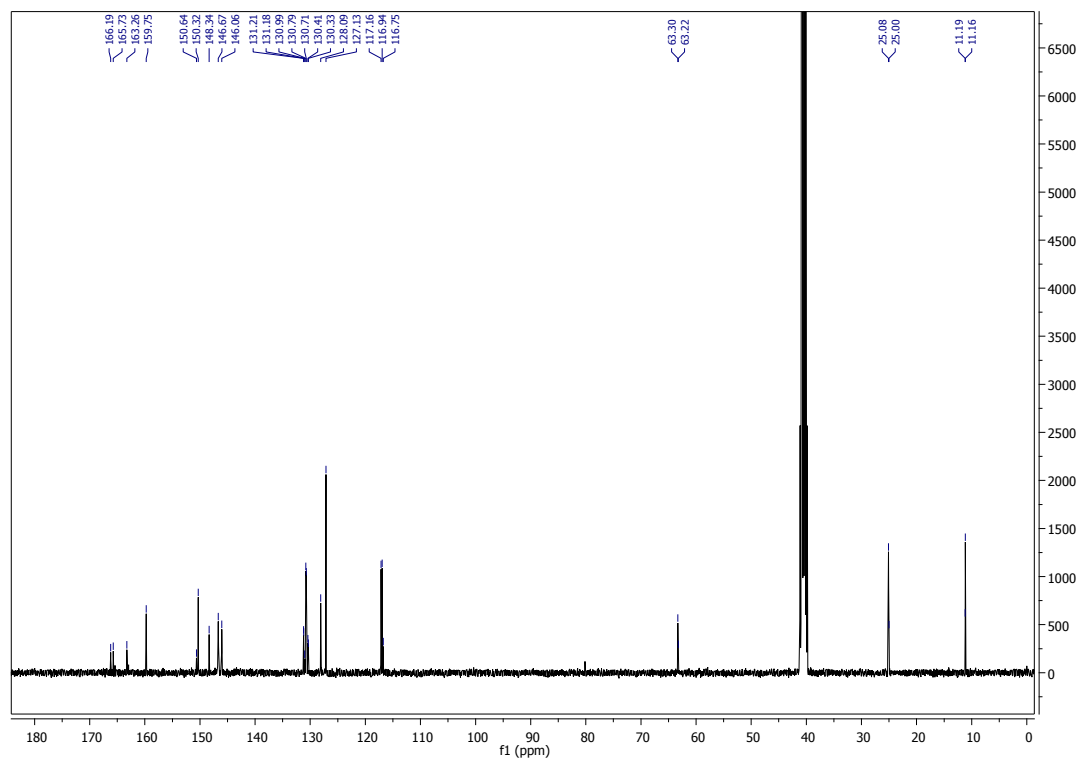
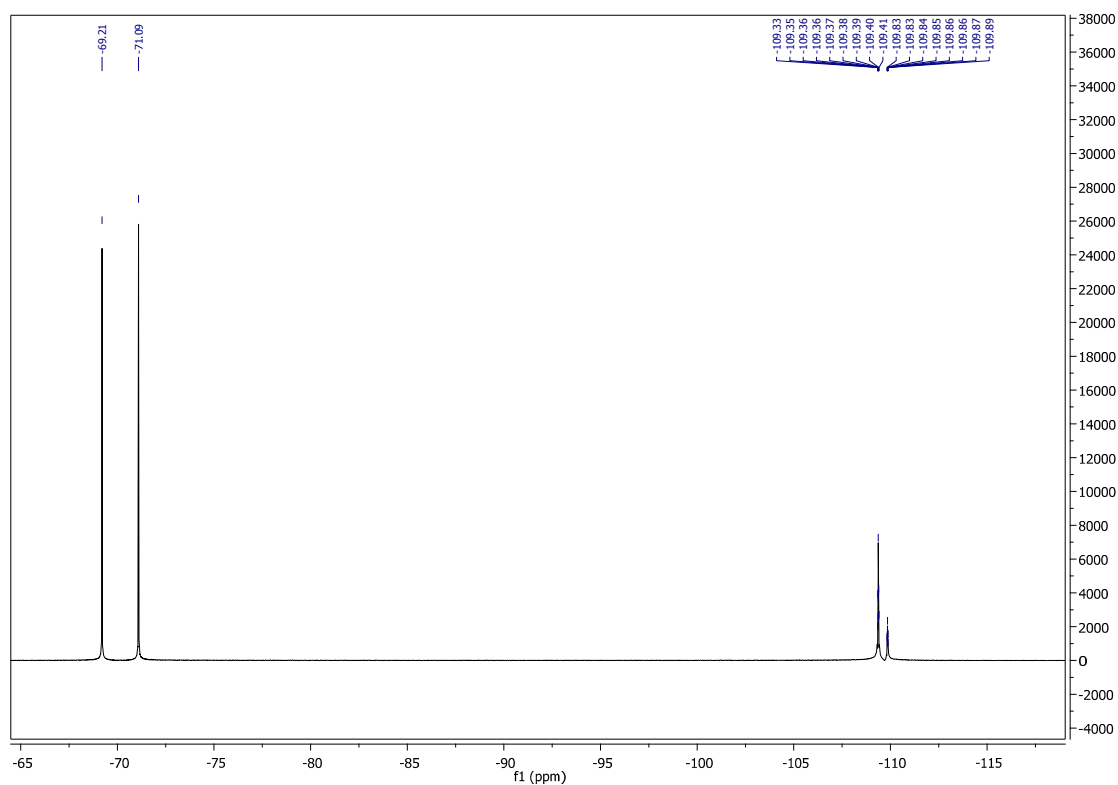
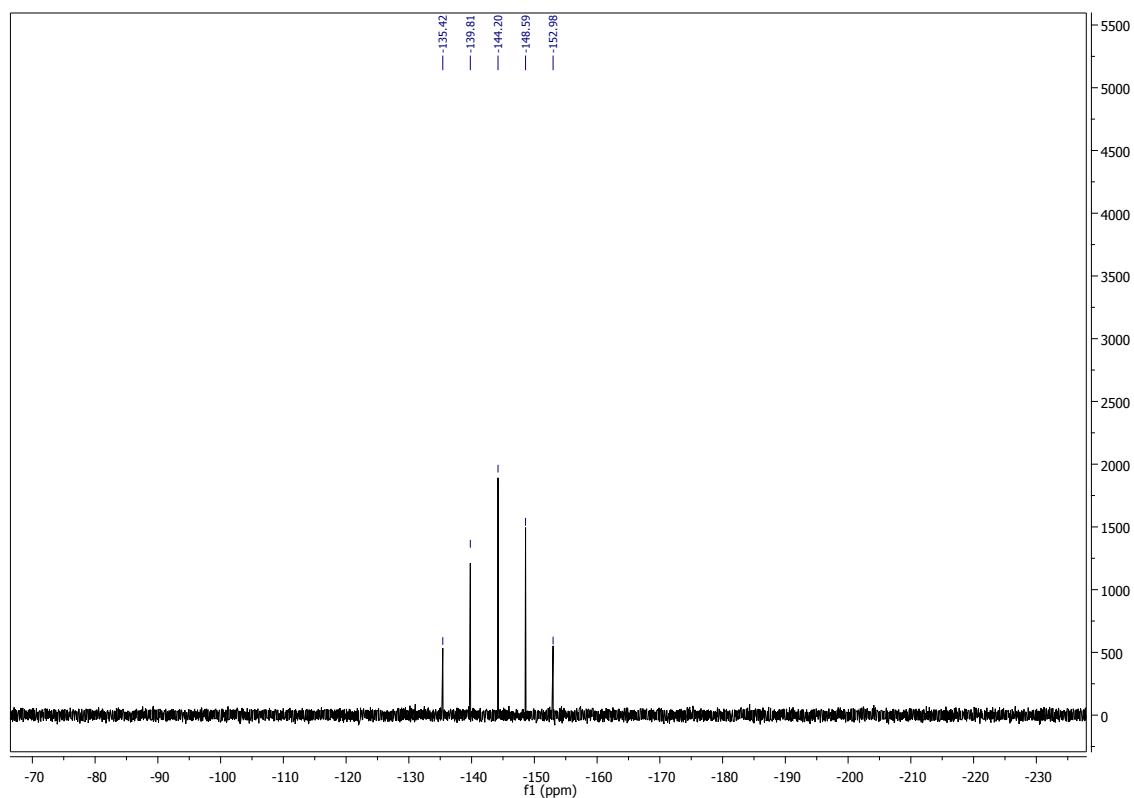
Figure S45. ¹³C NMR of Compound 15.

Figure S46. MS (ESI) of Compound 15.

Figure S47. ¹H NMR of Compound 16.Figure S48. ¹³C NMR of Compound 16.

Figure S49. ^{19}F NMR of Compound 16.Figure S50. ^{31}P NMR of Compound 16.

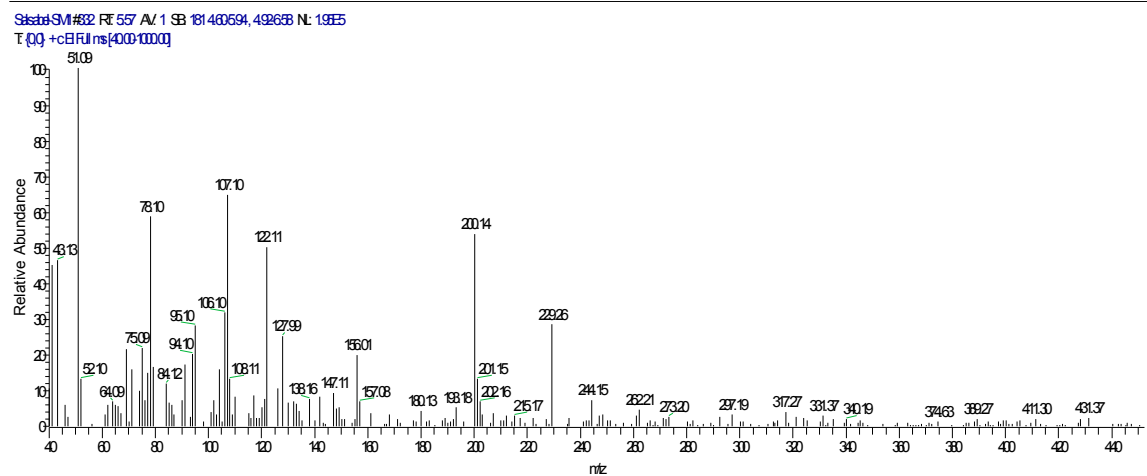
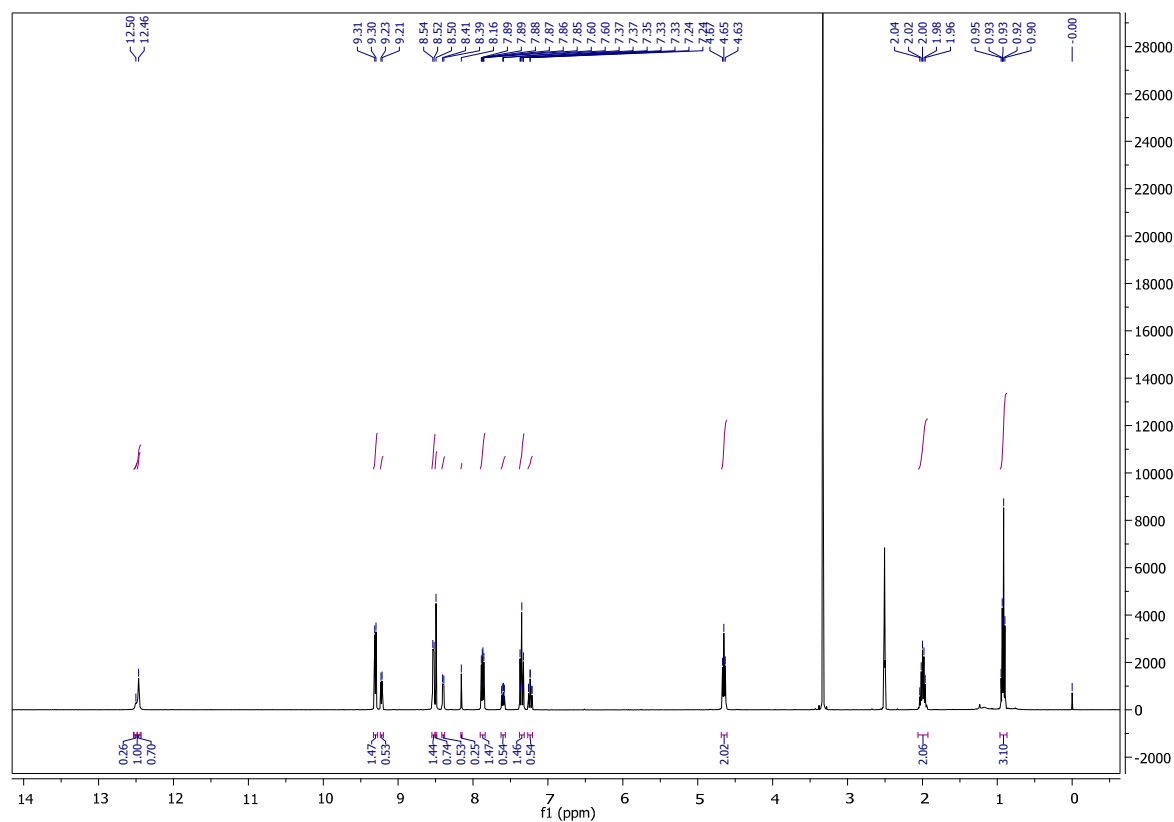
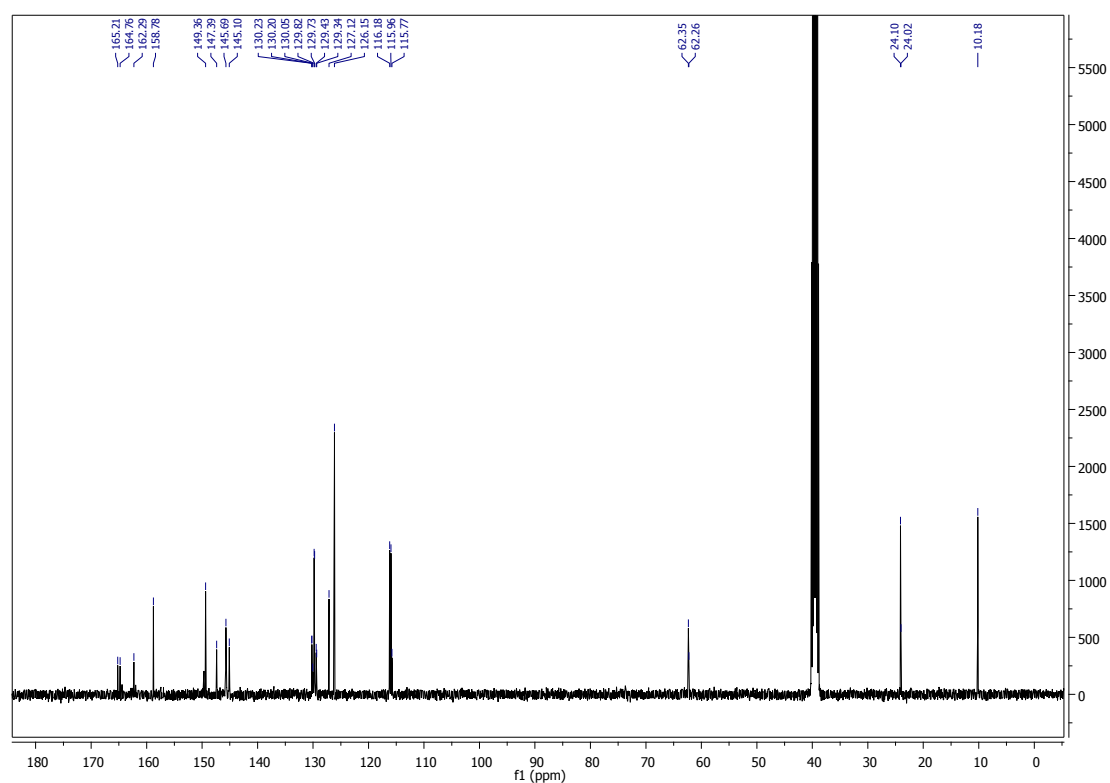
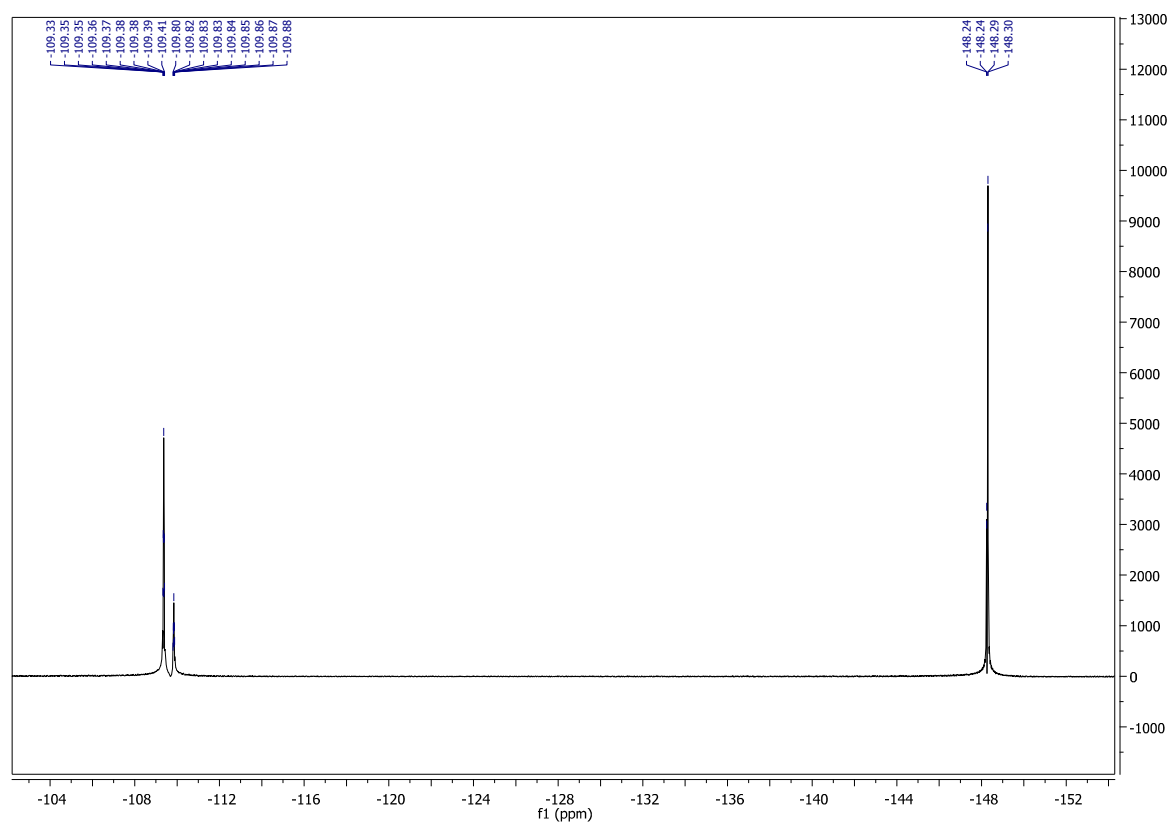
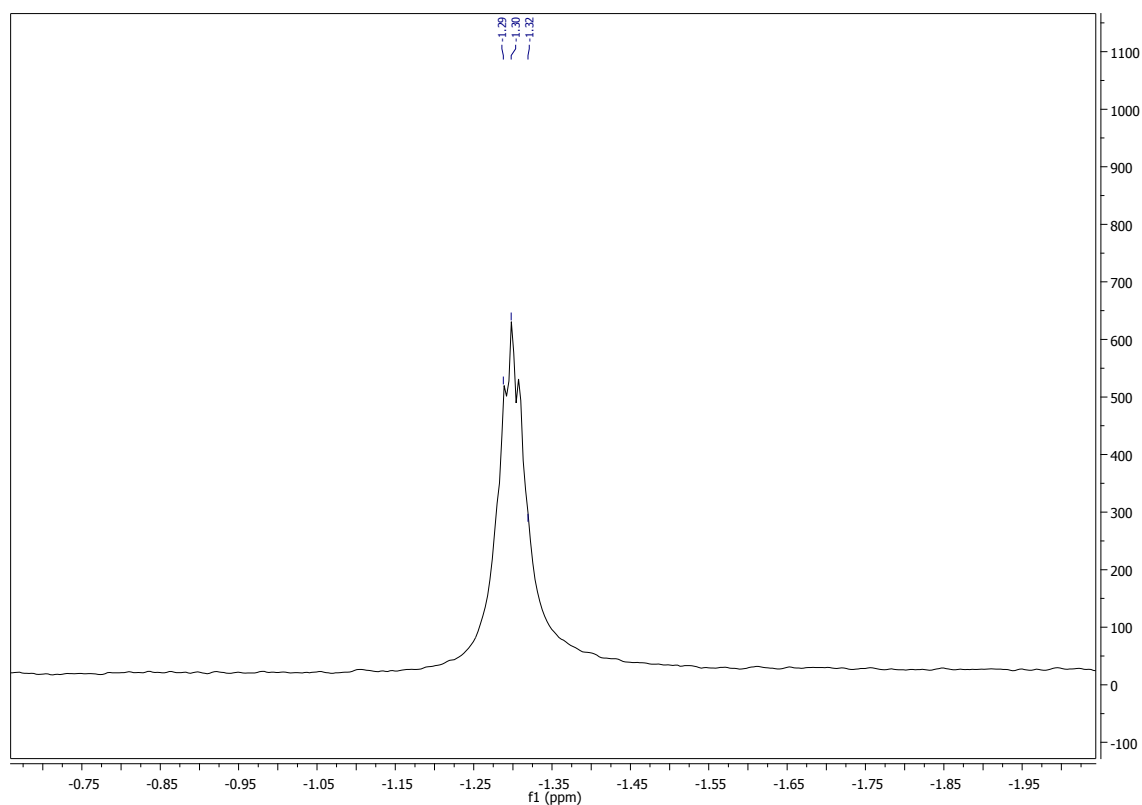


Figure S51. MS (ESI) of Compound 16.

Figure S52. ¹H NMR of Compound 17.

Figure S53. ¹³C NMR of Compound 17.Figure S54. ¹⁹F NMR of Compound 17.

Figure S55. ^{11}B NMR of Compound 17.

StatSoft v12.0.0.0 RE 295 A/ 1 SB 0269308, 25/239 N: 1075
T: 0.0 + cEFU ms [4000-10000]

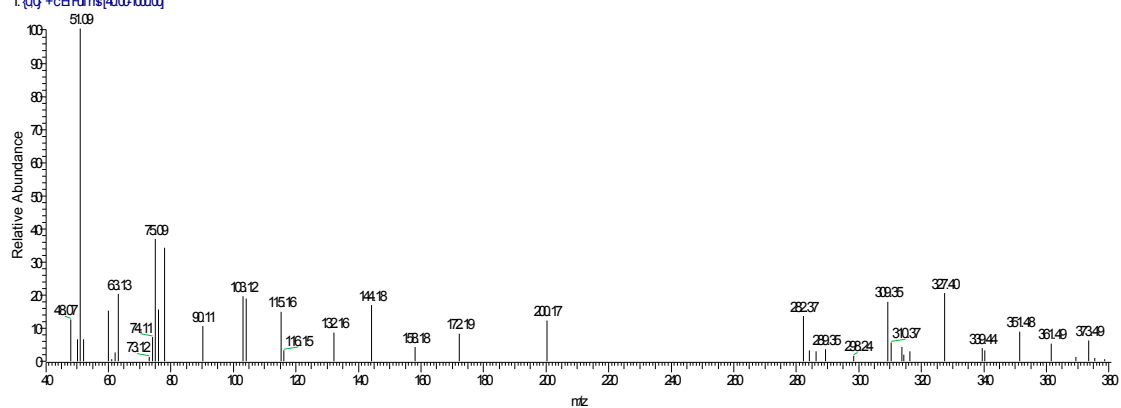
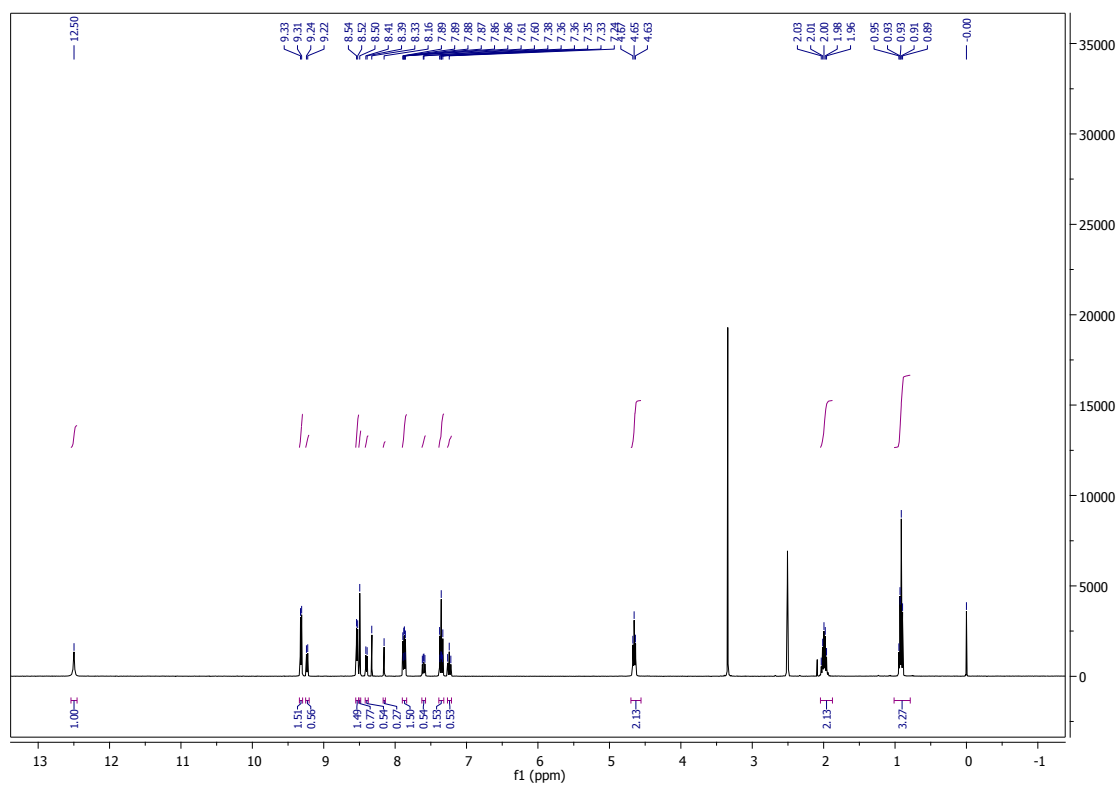
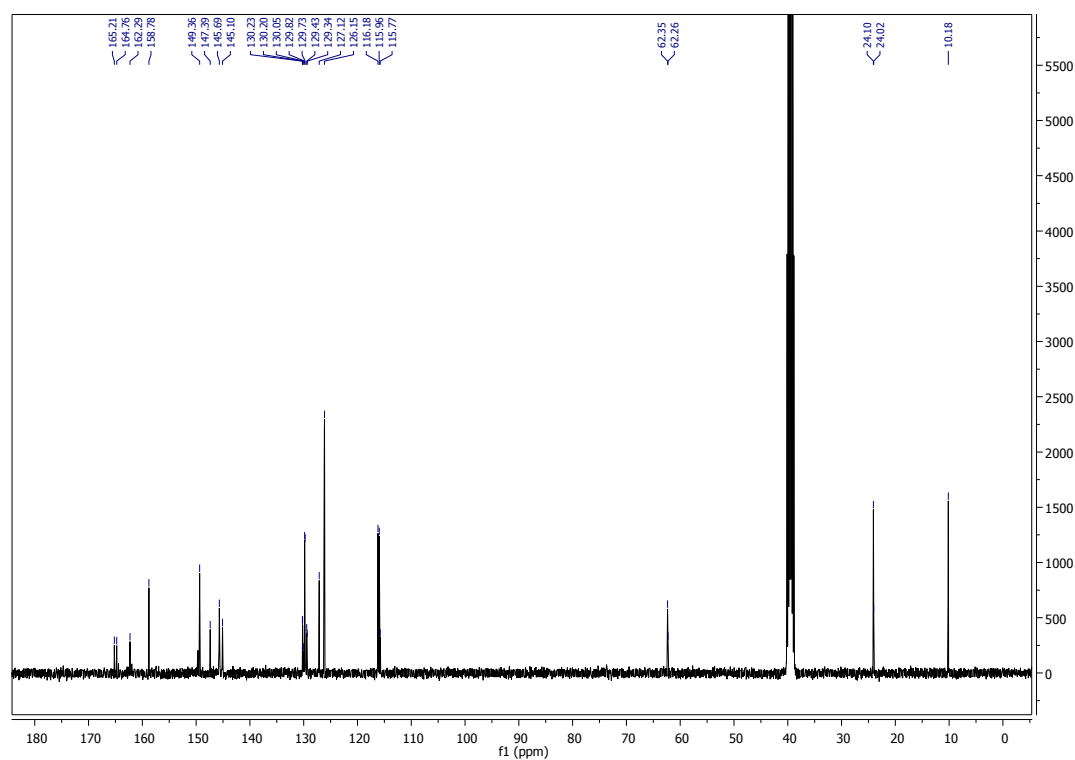


Figure S56. MS (ESI) of Compound 17.

Figure S57. ¹H NMR of Compound 18.Figure S58. ¹³C NMR of Compound 18.

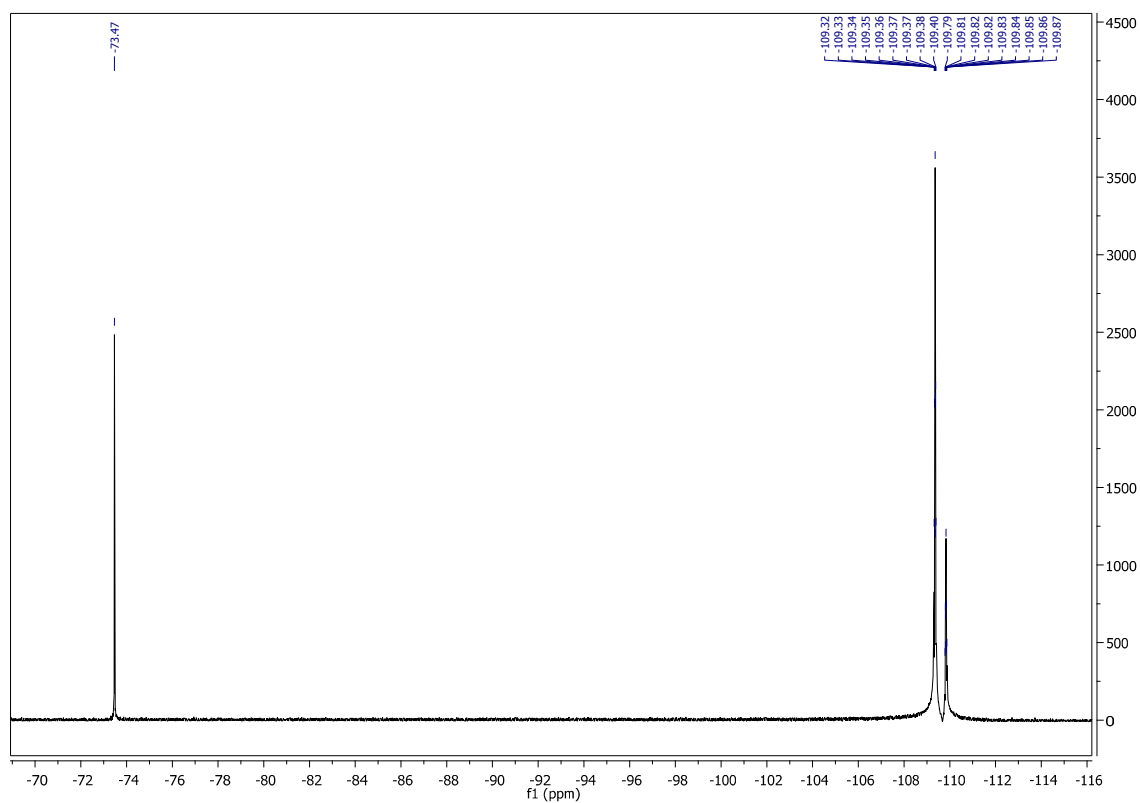
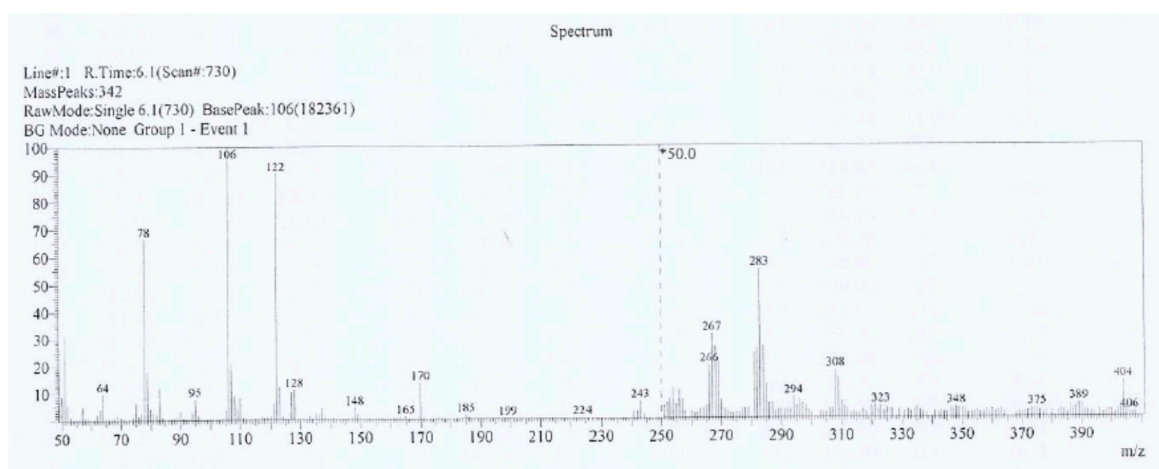
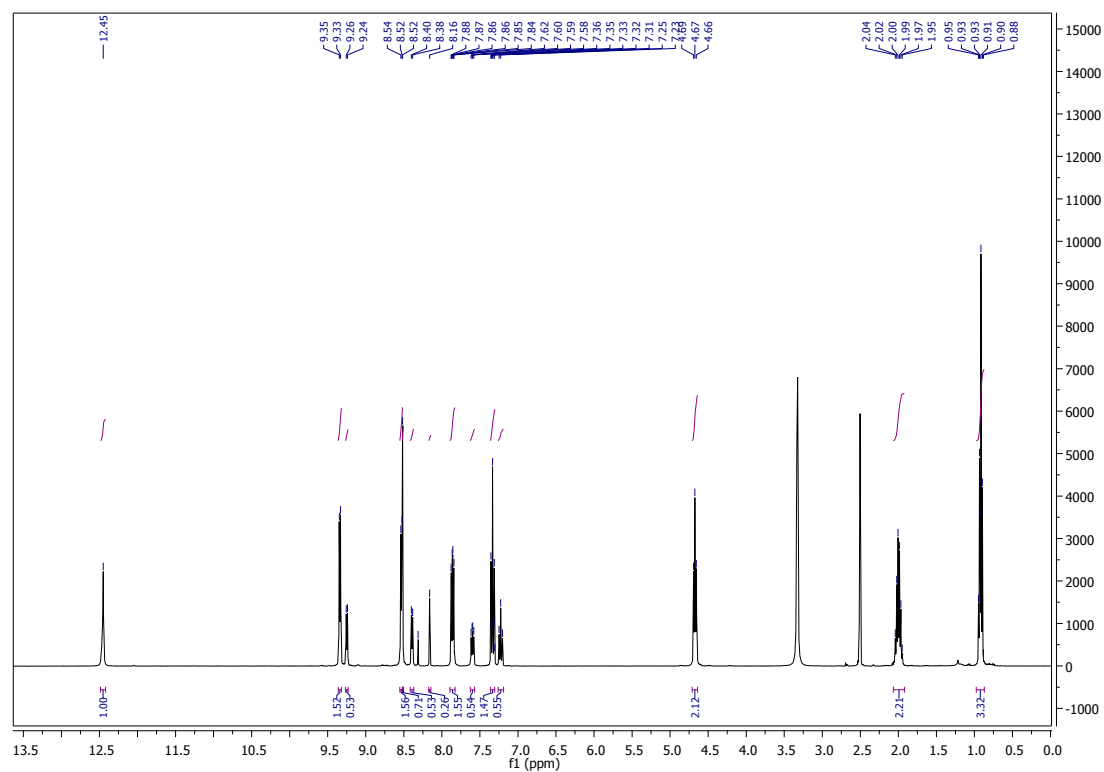
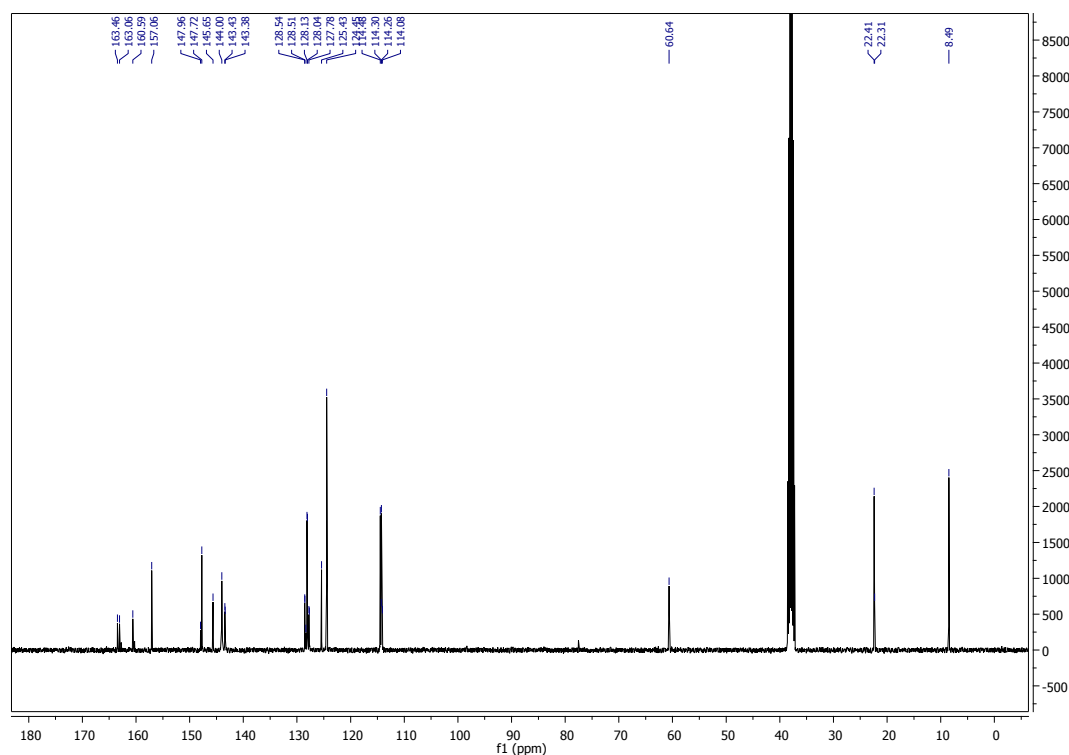
Figure S59. ^{19}F NMR of Compound 18.

Figure S60. MS (ESI) of Compound 18.

Figure S61. ¹H NMR of Compound 19.Figure S62. ¹³C NMR of Compound 19.

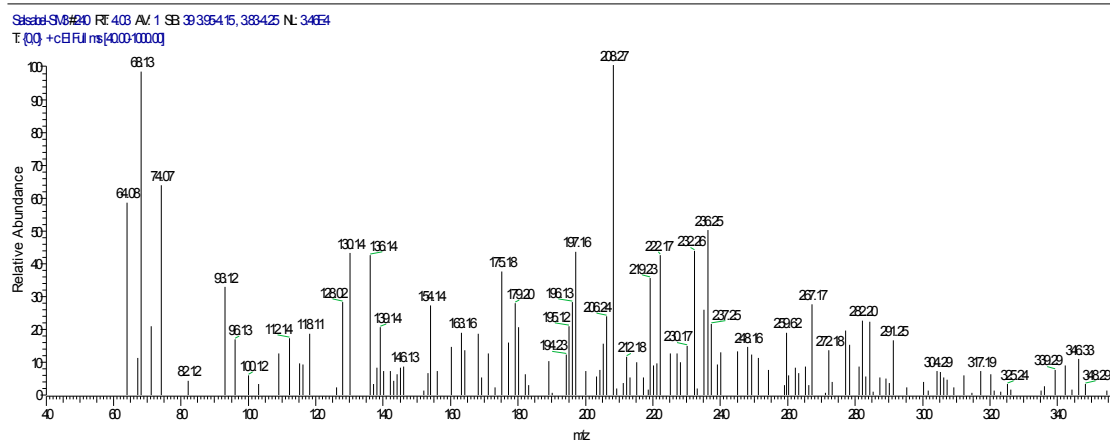
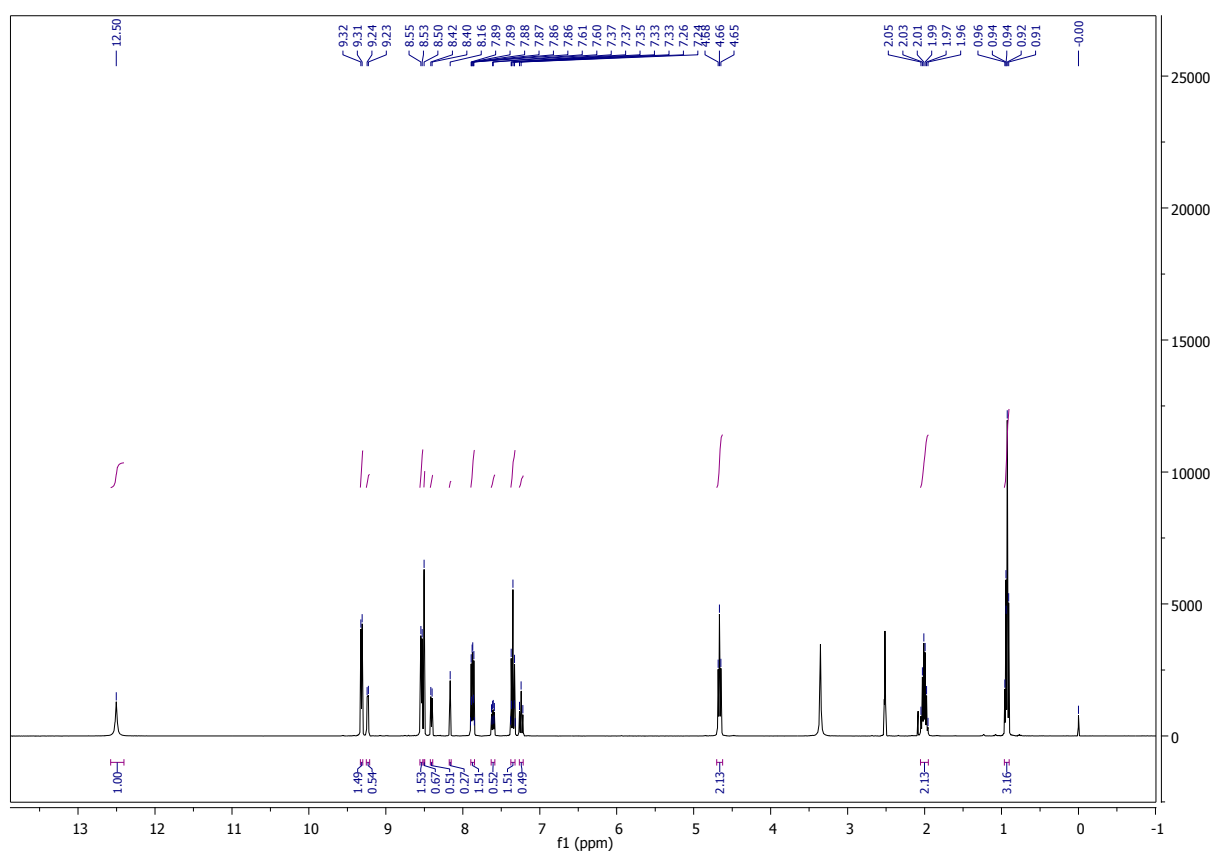
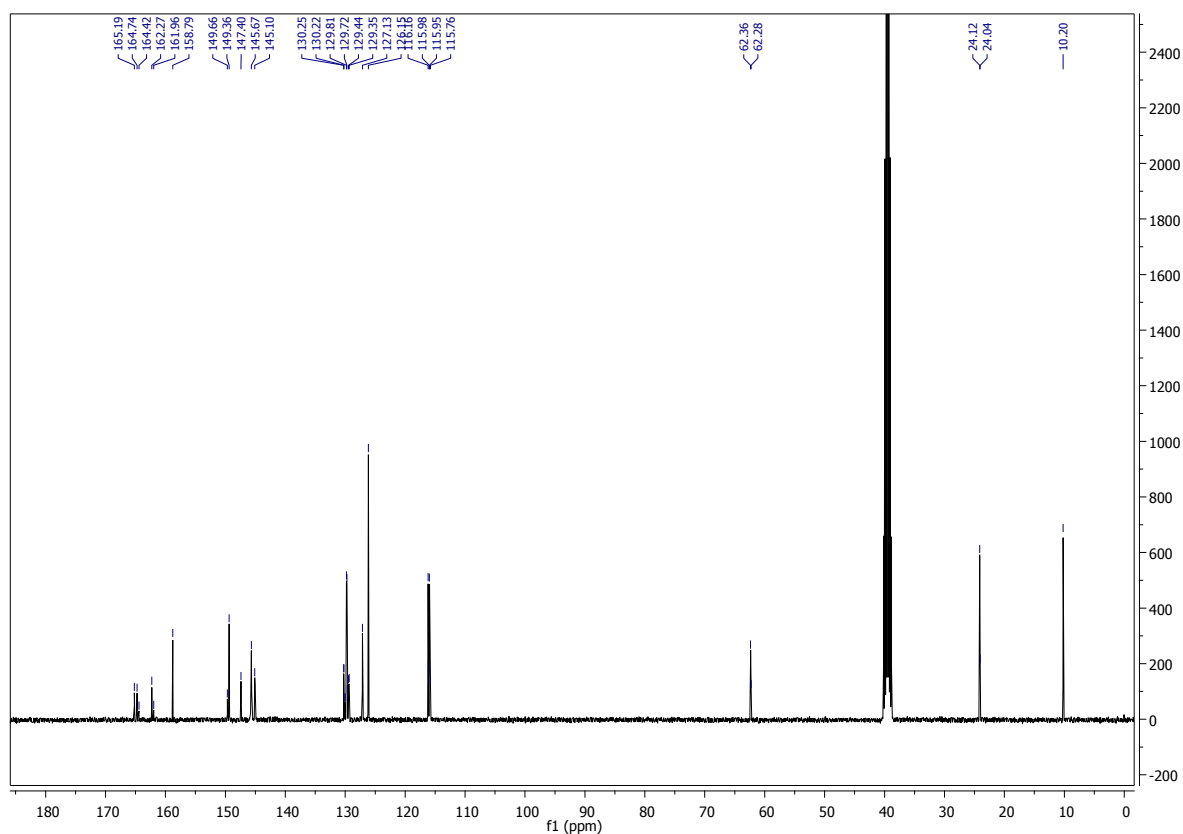


Figure S63. MS (ESI) of Compound 19.

Figure S64. ^1H NMR of Compound 20.

Figure S65. ^{13}C NMR of Compound 20.

StatSM#25 F: 3.6 A: 1 SB 9134173, 1223 N: 197
T: [Q] +cEFUms[400-1000]

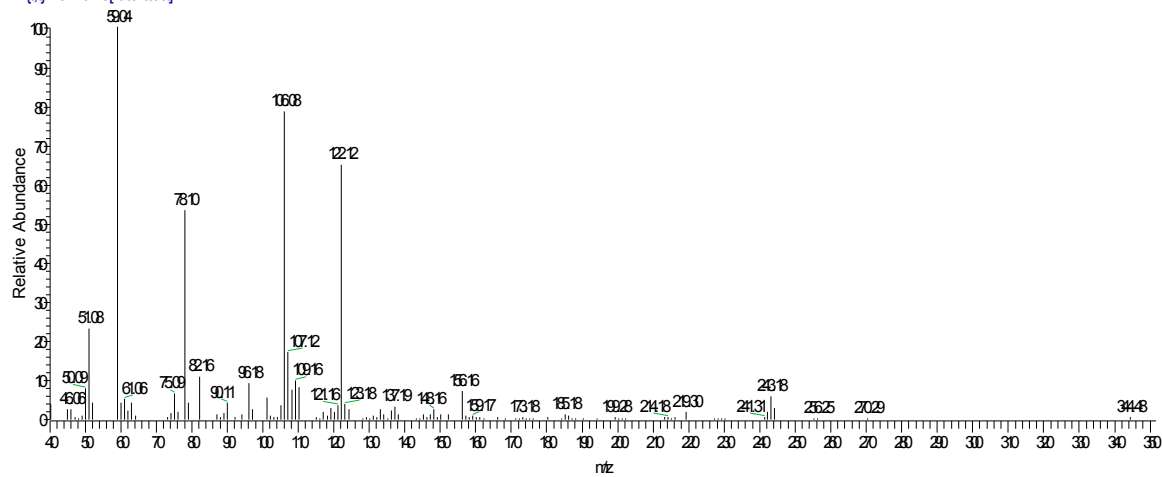
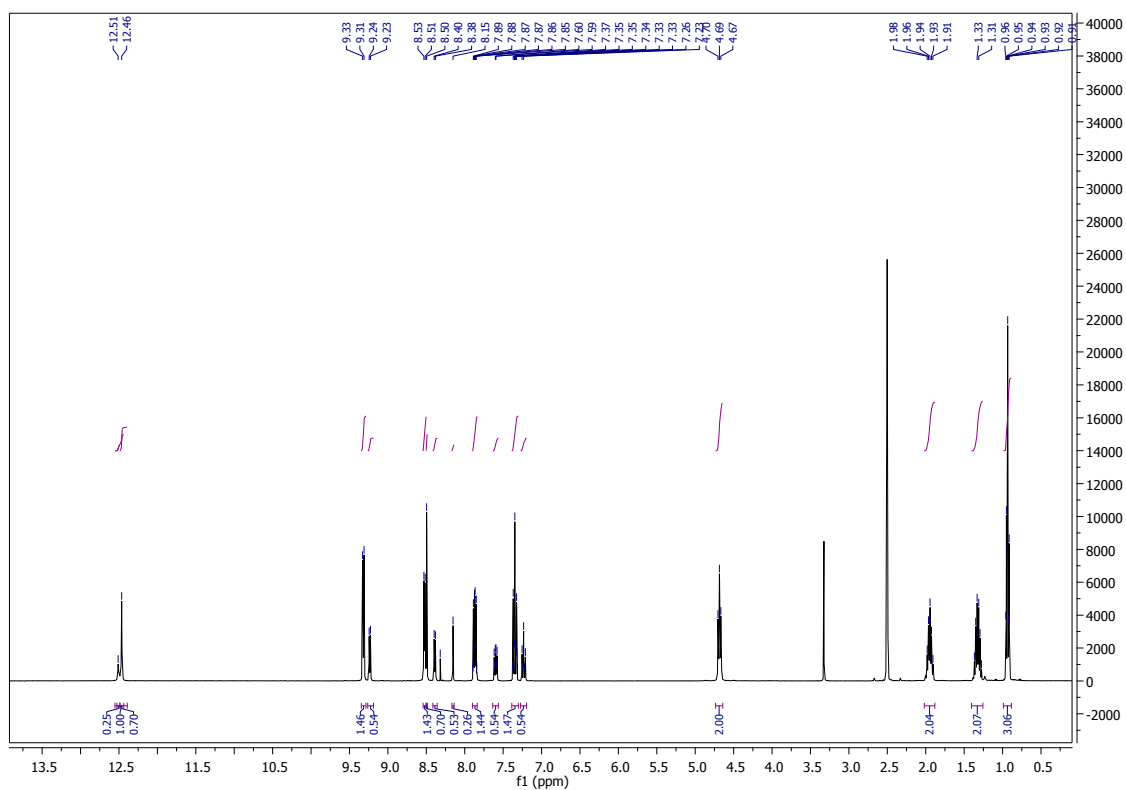
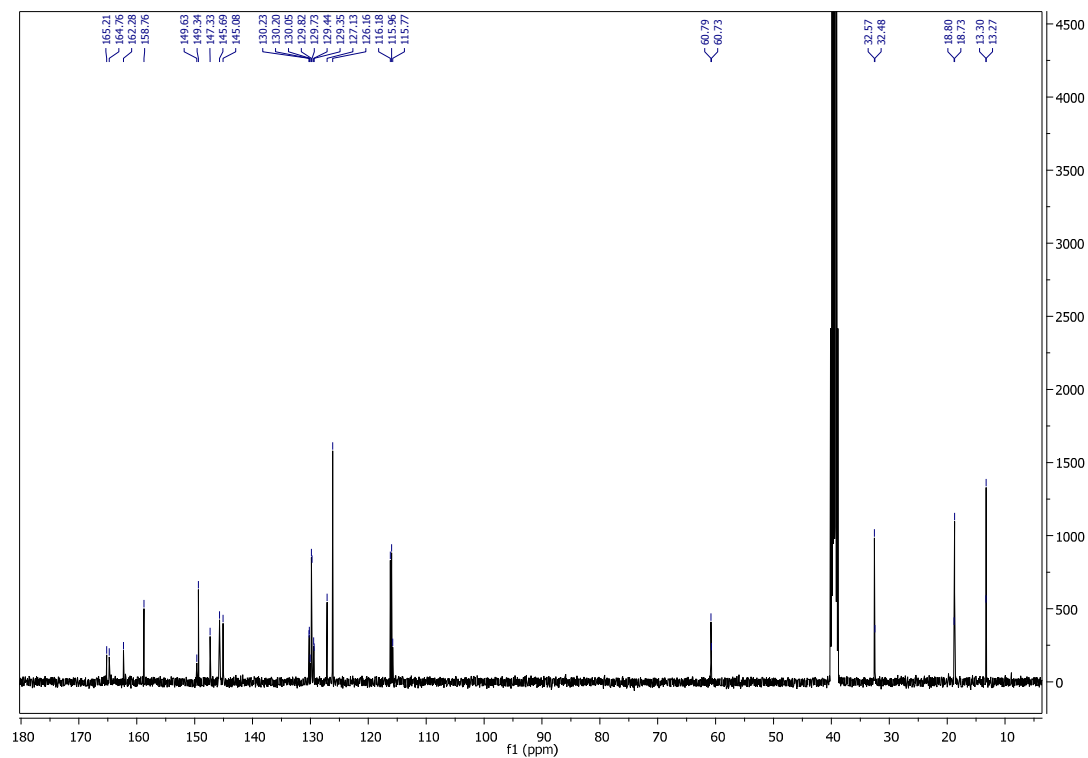
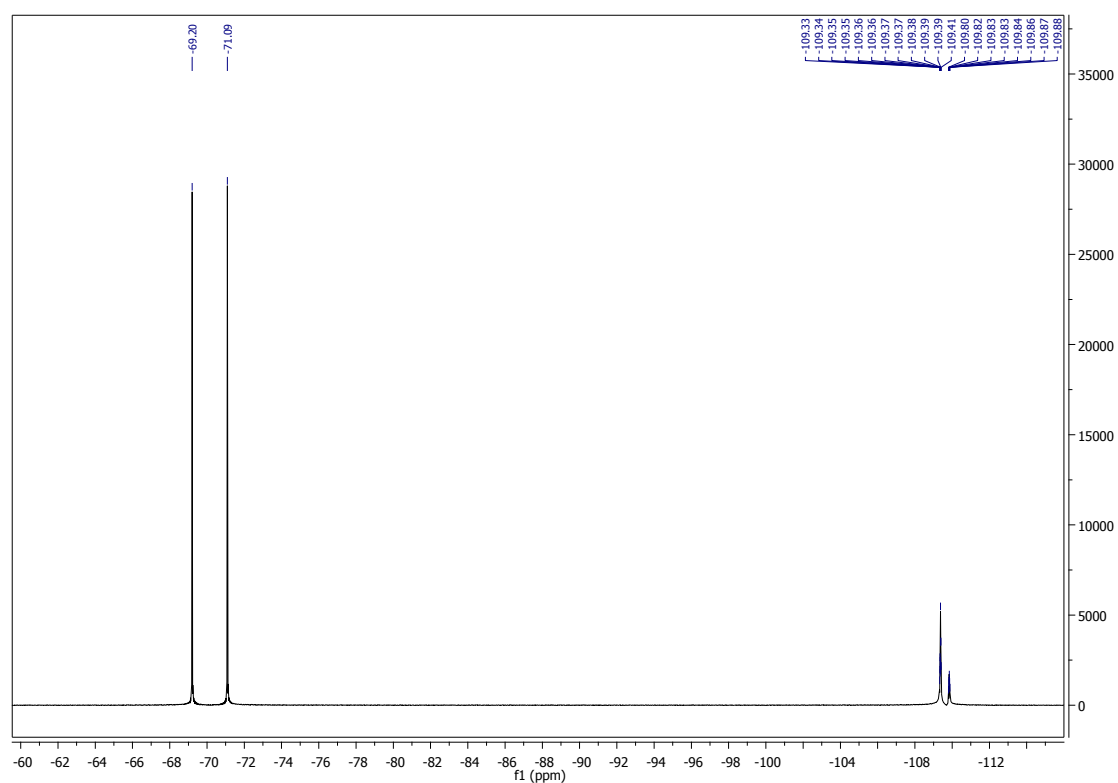
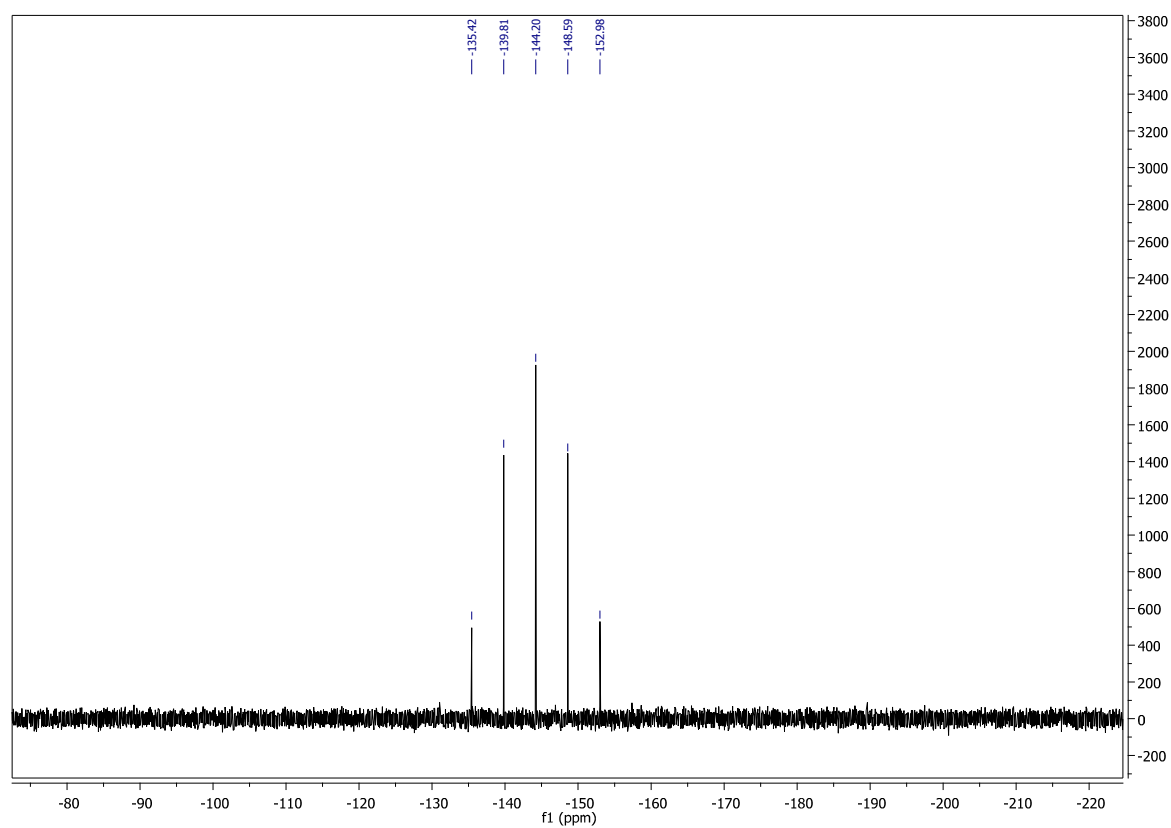


Figure S66. MS (ESI) of Compound 20.

Figure S67. ¹H NMR of Compound 21.Figure S68. ¹³C NMR of Compound 21.

Figure S69. ^{19}F NMR of Compound 21.Figure S70. ^{31}P NMR of Compound 21.

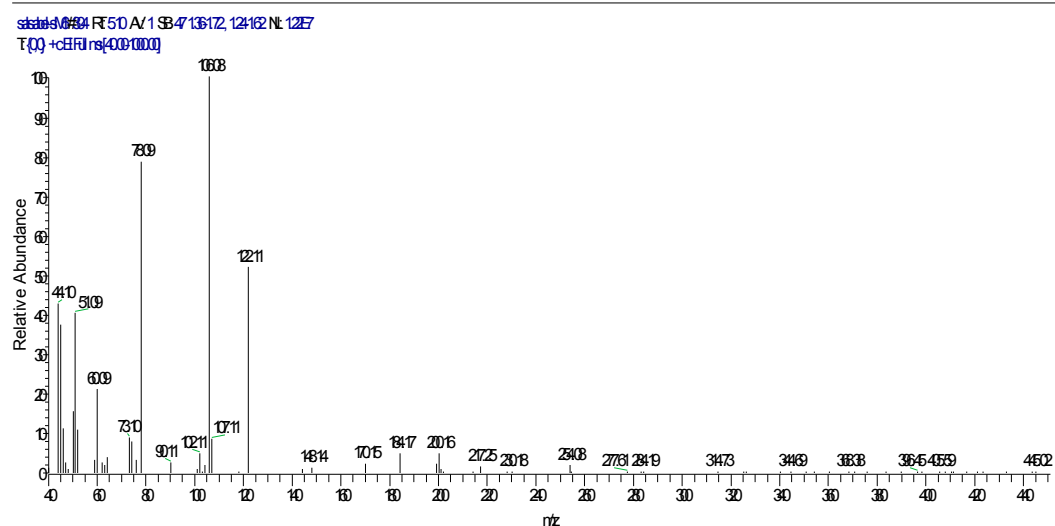
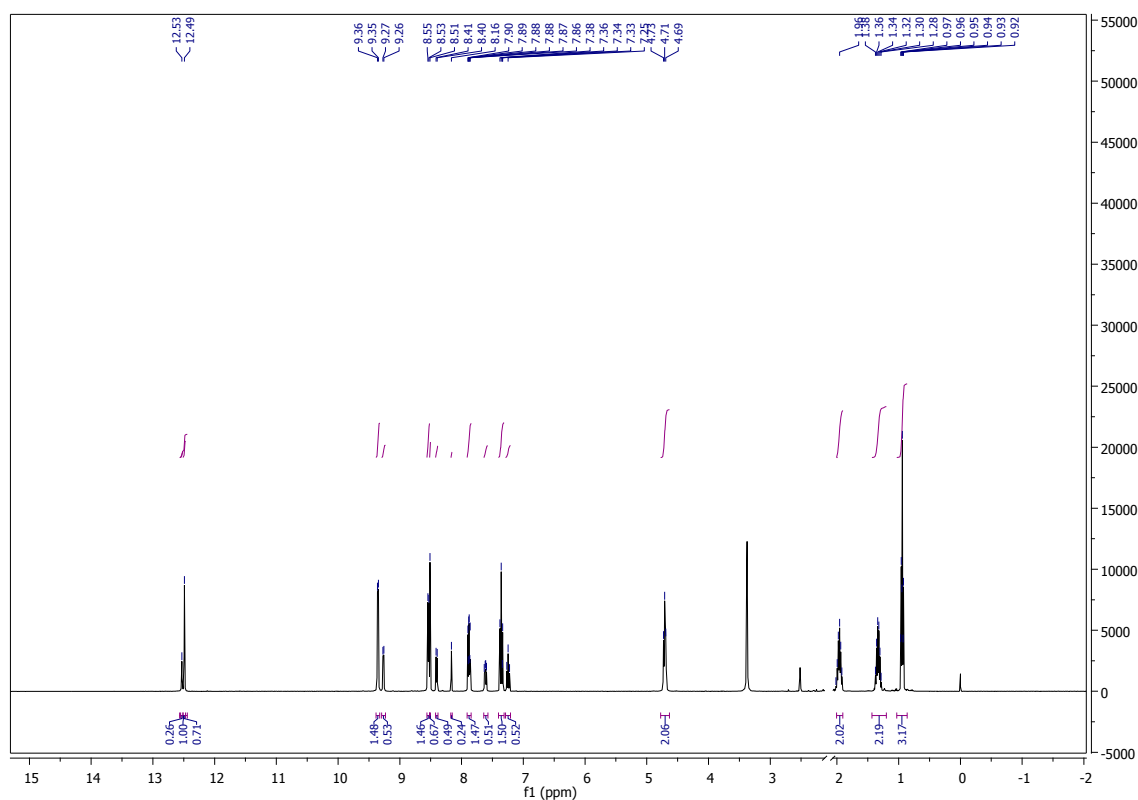
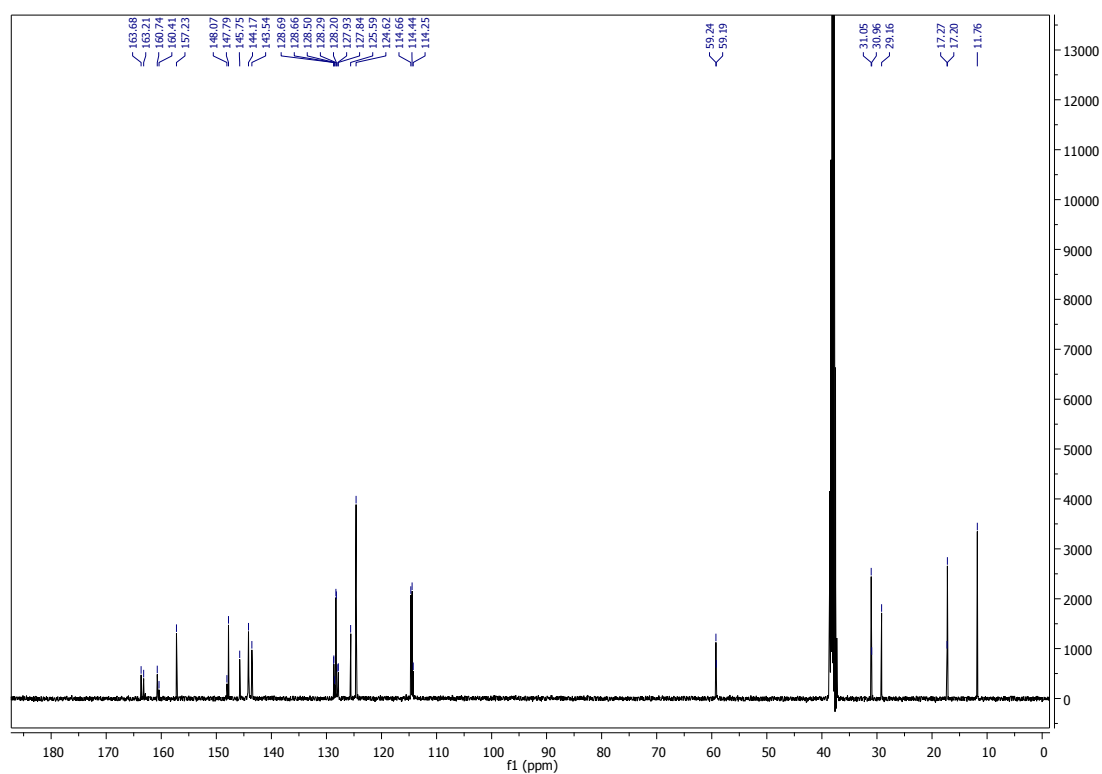
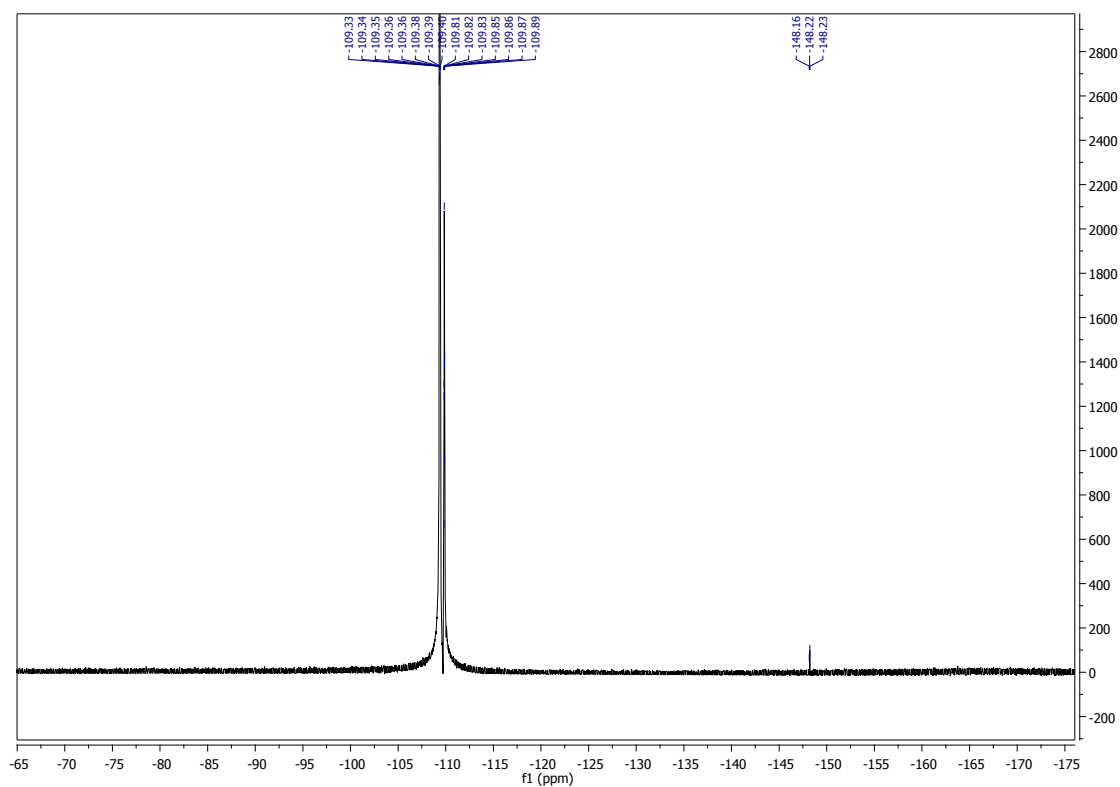


Figure S71. MS (ESI) of Compound 21.

Figure S72. ¹H NMR of Compound 22.

Figure S73. ¹³C NMR of Compound 22.Figure S74. ¹⁹F NMR of Compound 22.

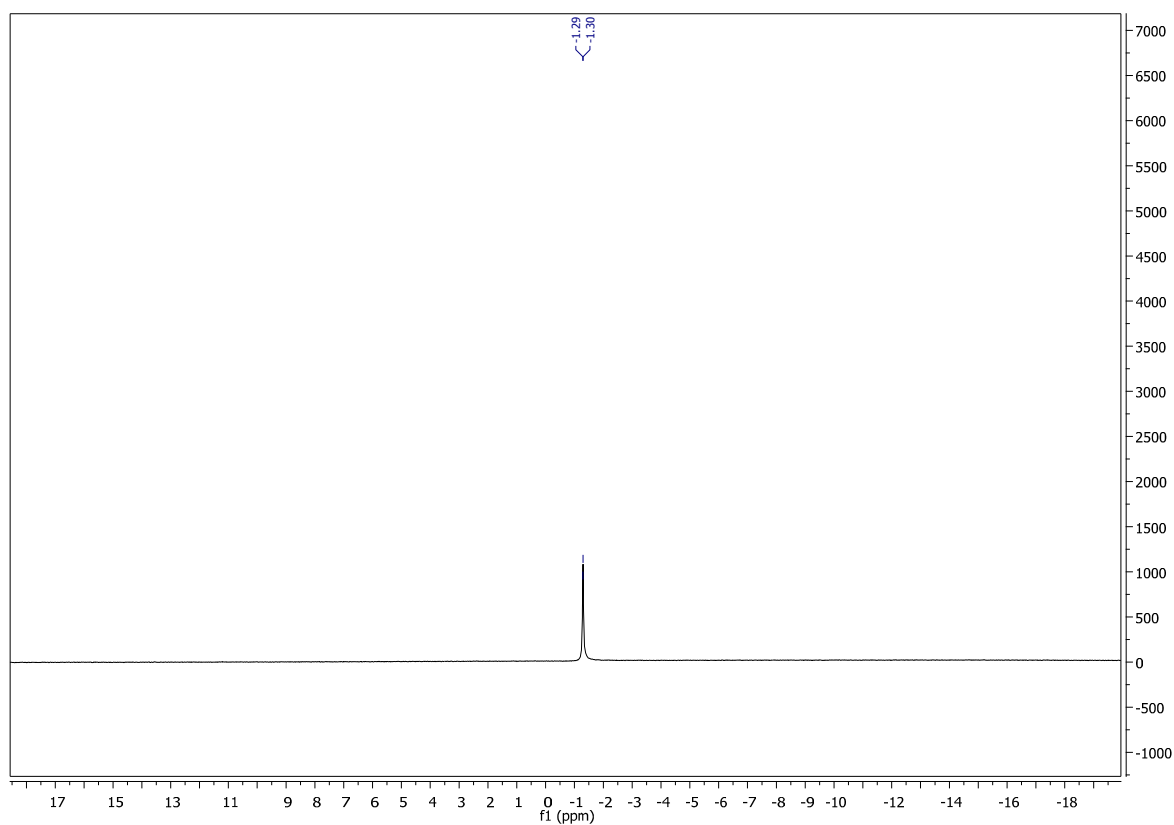
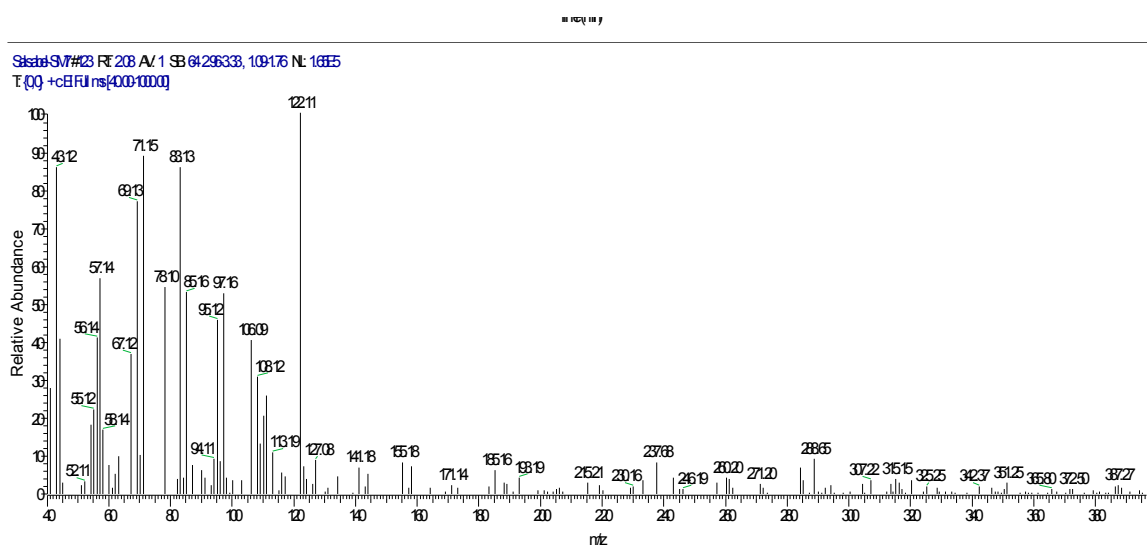
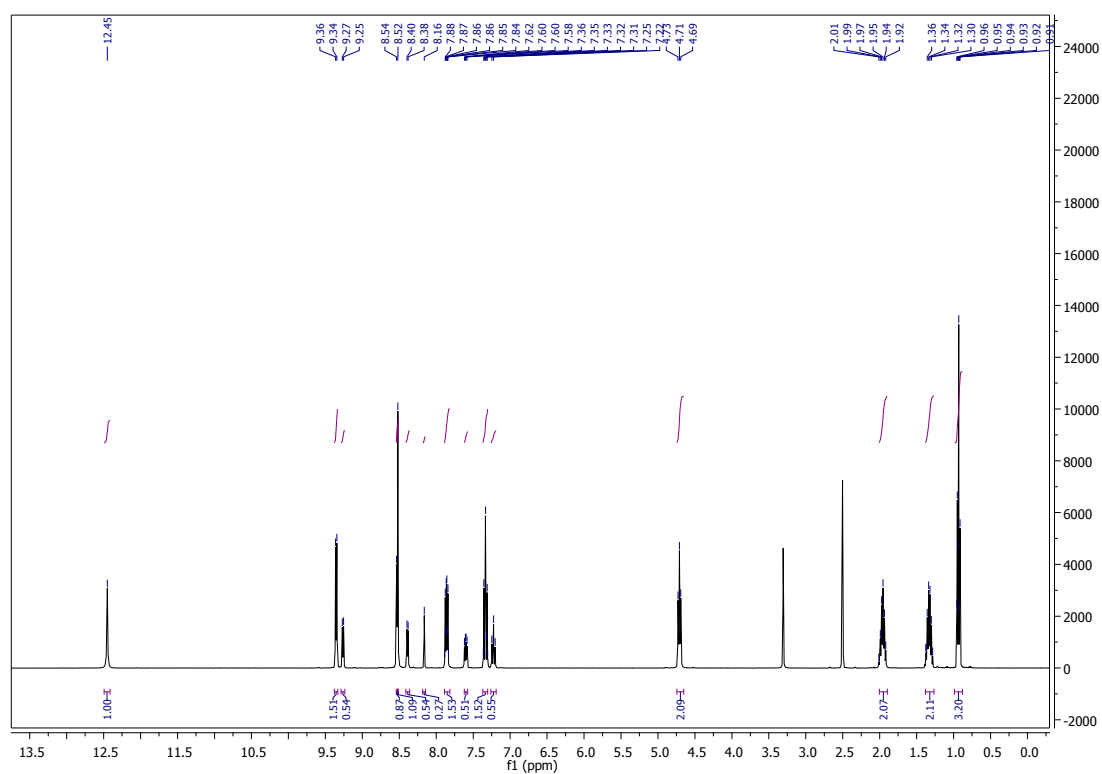
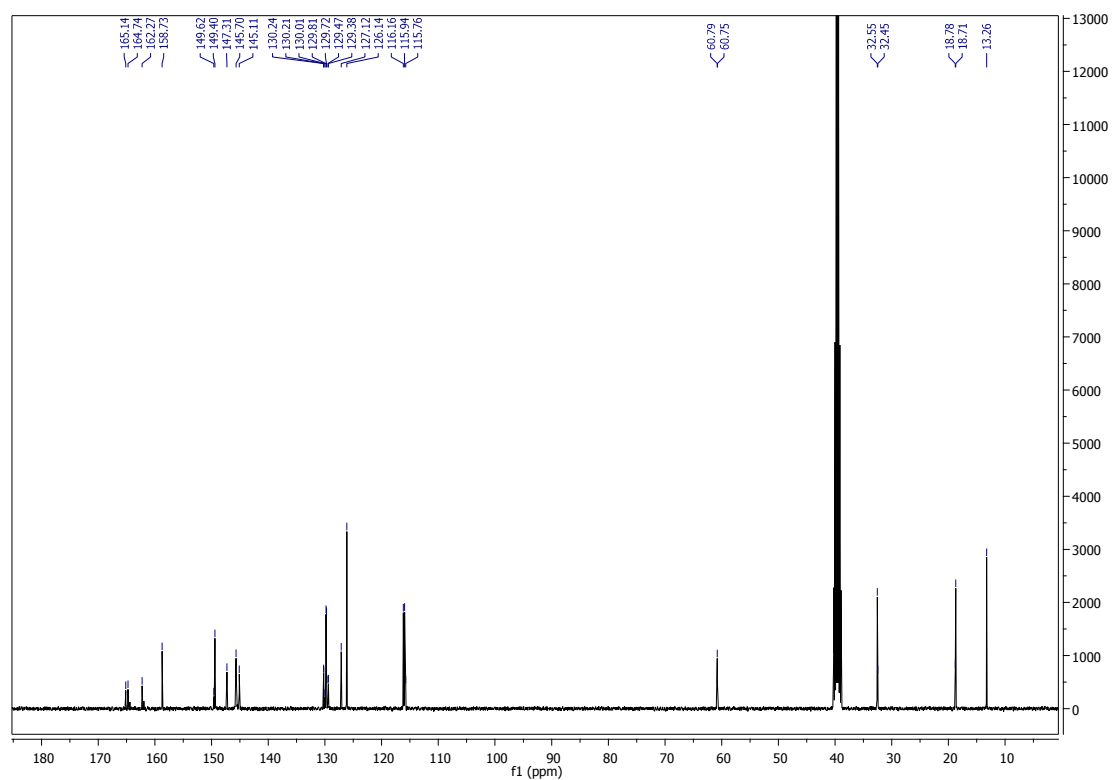
Figure S75. ^{11}B NMR of Compound 22.

Figure S76. MS (ESI) of Compound 22.

Figure S77. ¹H NMR of Compound 23.Figure S78. ¹³C NMR of Compound 23.

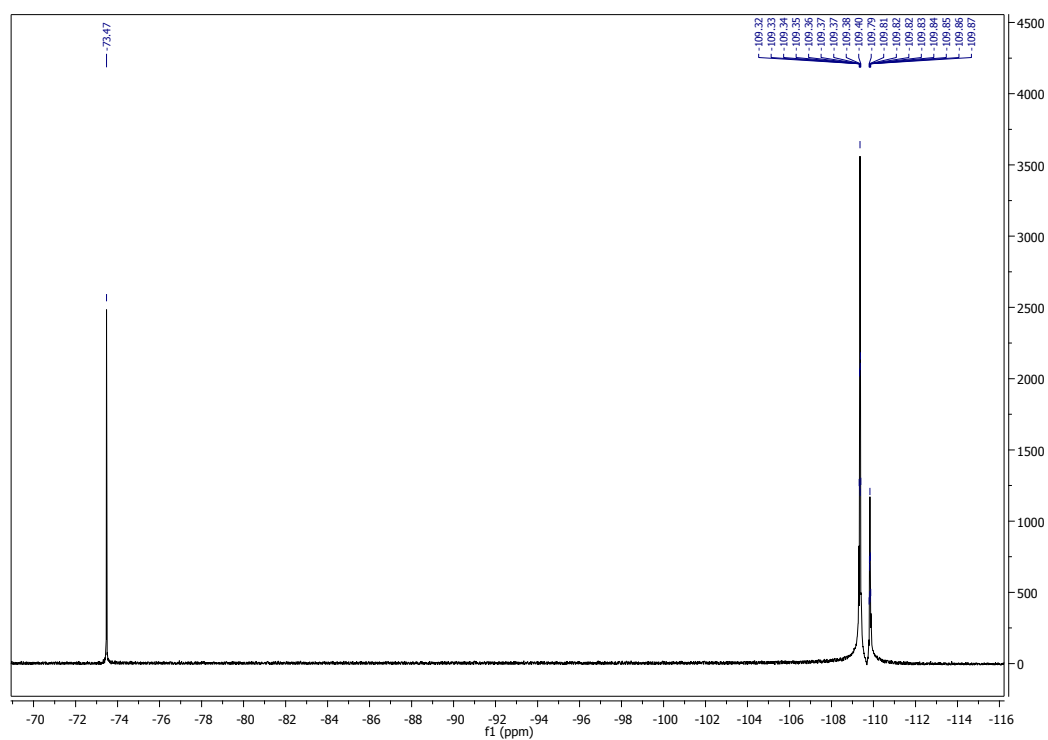
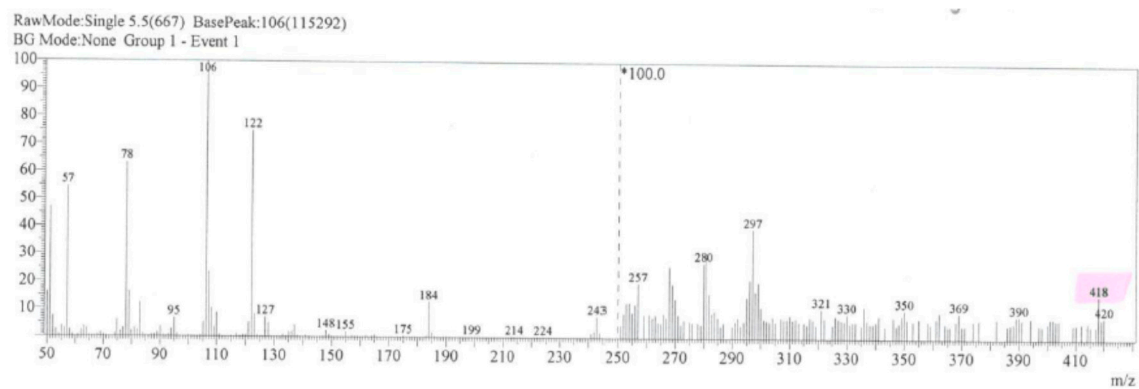
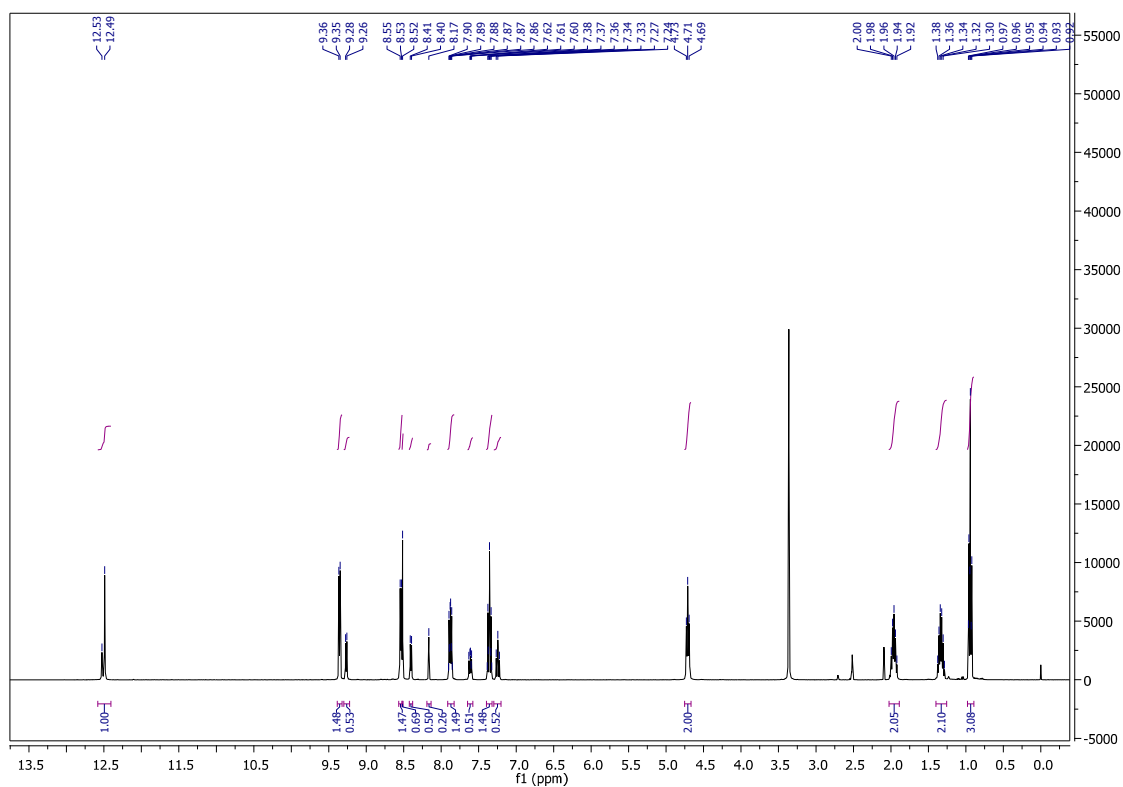
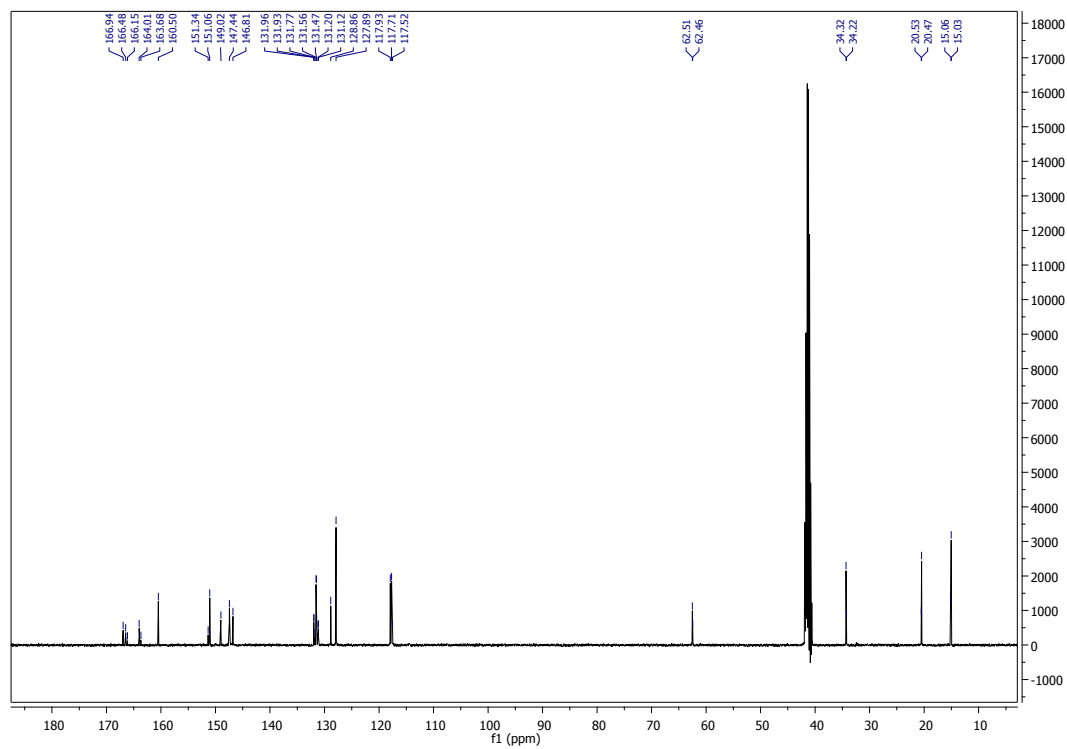
Figure S79. ¹⁹F NMR of Compound 23.

Figure S80. MS (ESI) of Compound 23.

Figure S81. ¹H NMR of Compound 24.Figure S82. ¹³C NMR of Compound 24.

salsabil-SU8 #274 RT: 4.60 AV: 1 SB: 156 4.44-5.64 , 4.27-5.64 NL: 1.26E8
T: [0.0] * c EIfFullms [40.00-1000.00]

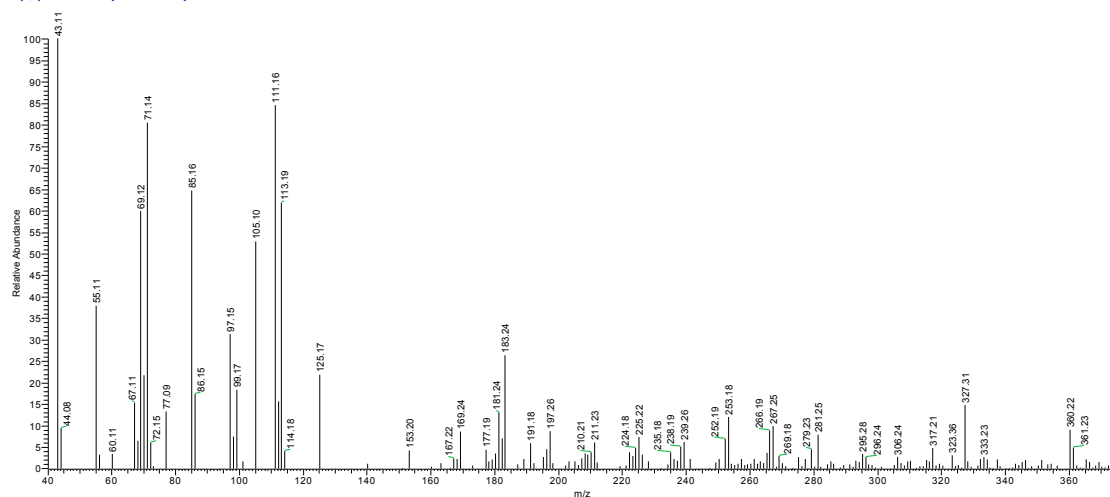


Figure S83. MS (ESI) of Compound 24.

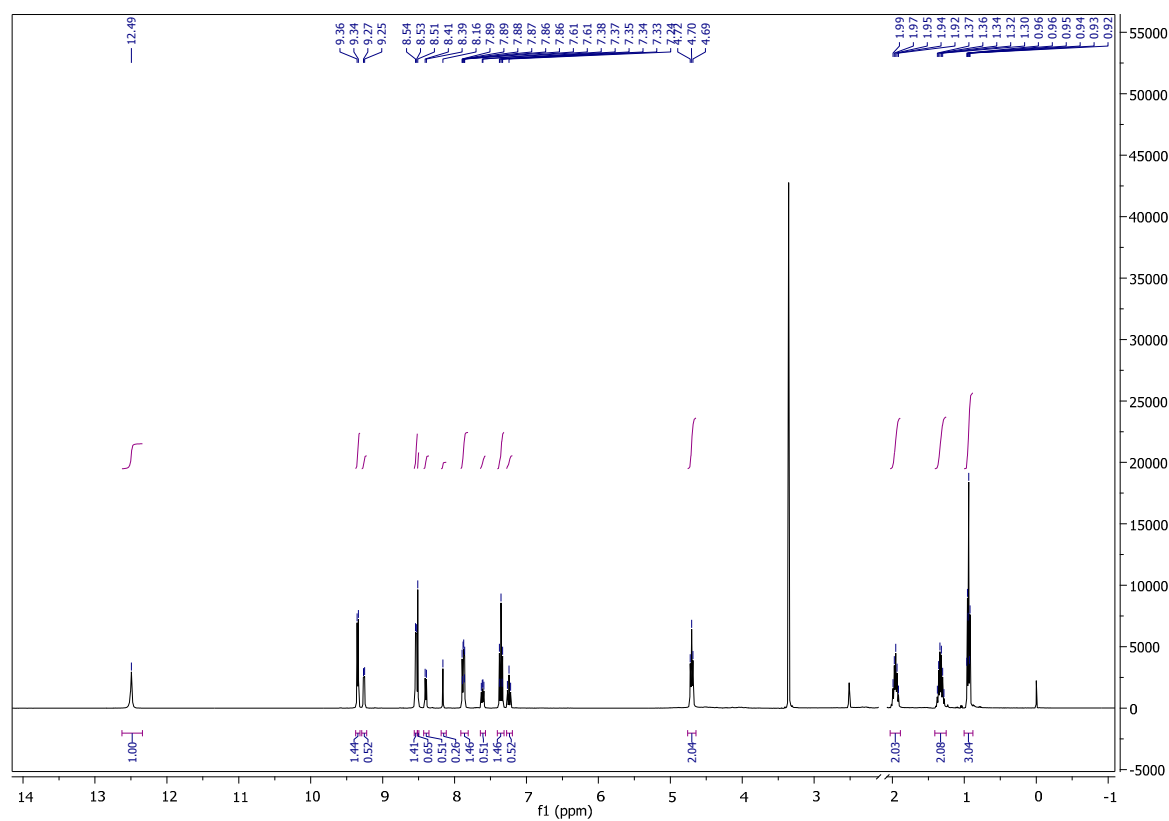
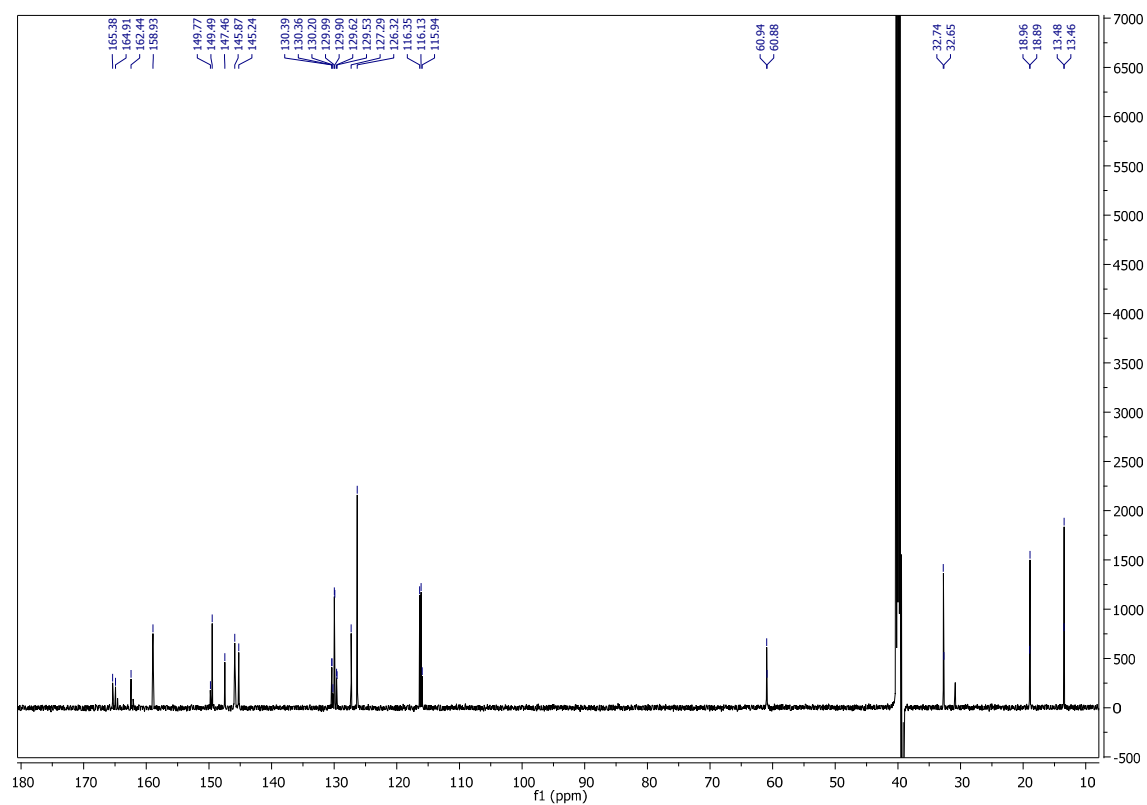


Figure S84. ¹H NMR of Compound 25.

Figure S85. ¹³C NMR of Compound 25.

Scan 9401 F: 33.8 A: 1 SB 228320, 256323 N: 1265
T: 0.0 +cHFLns[400:1000]

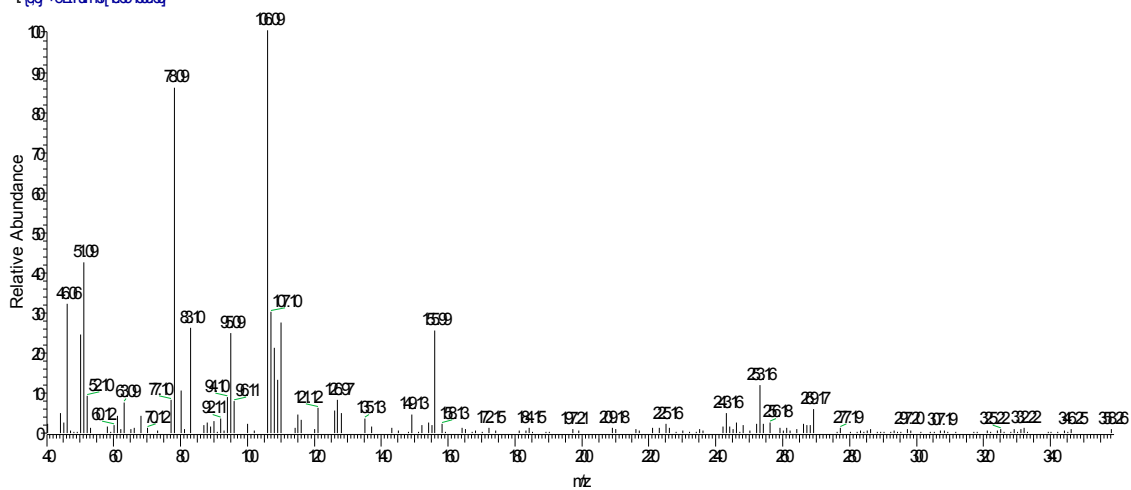
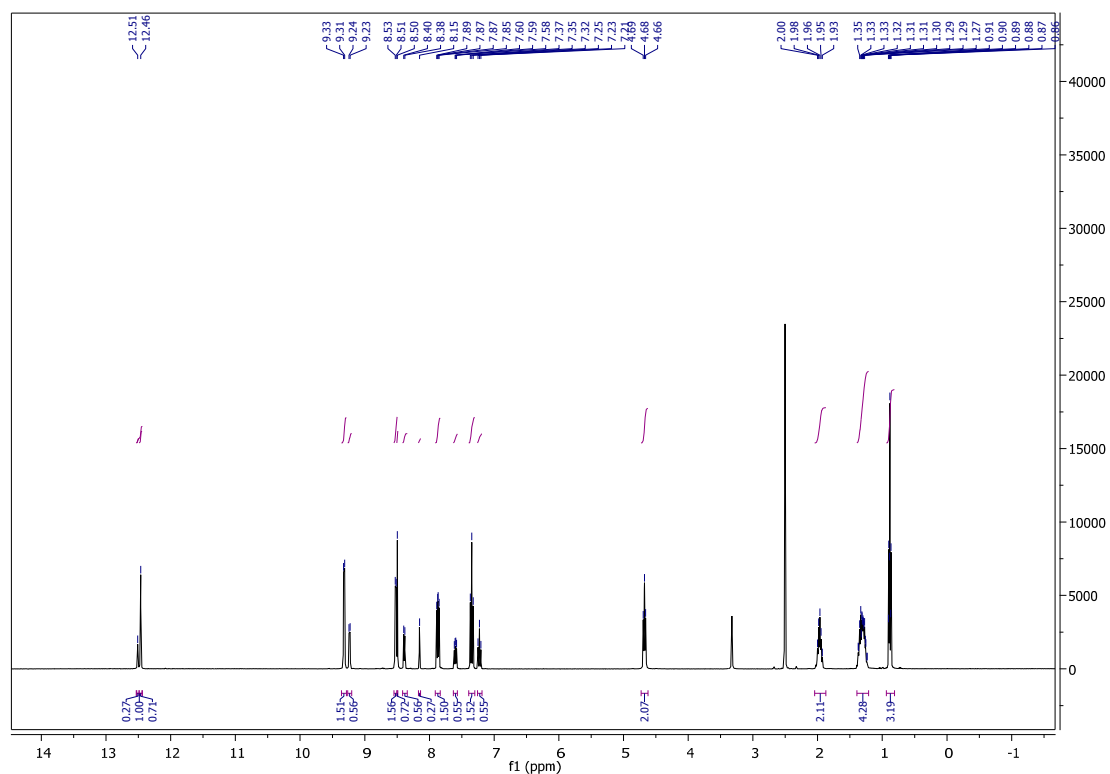
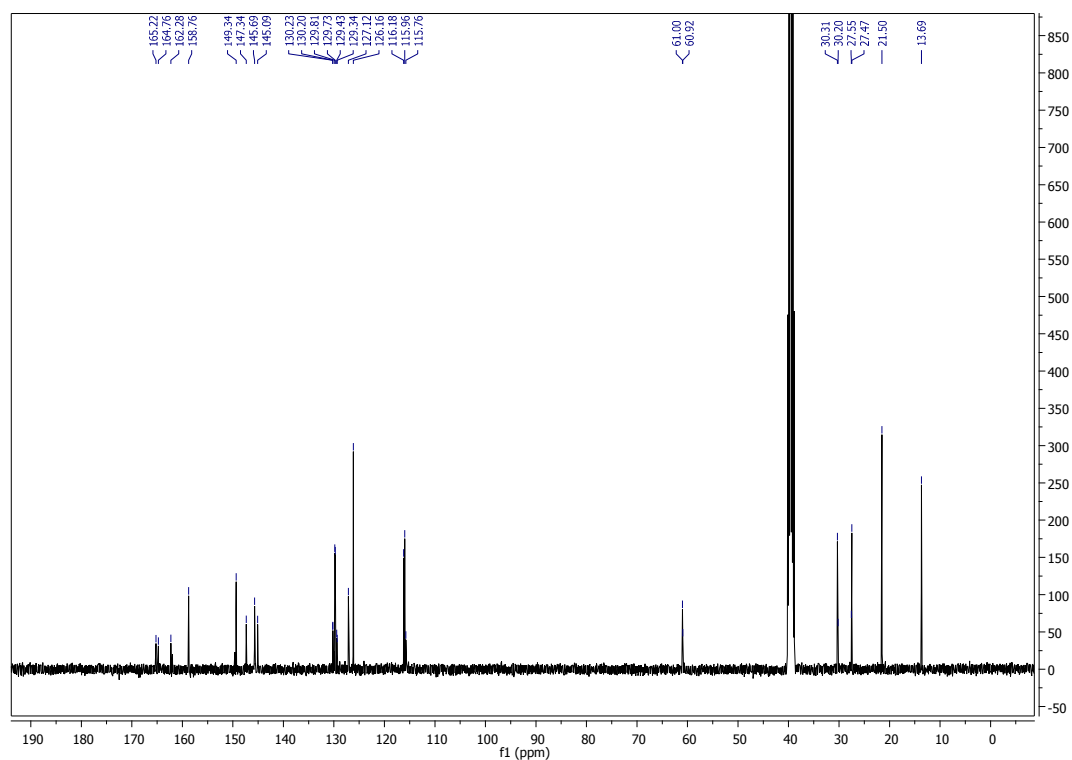
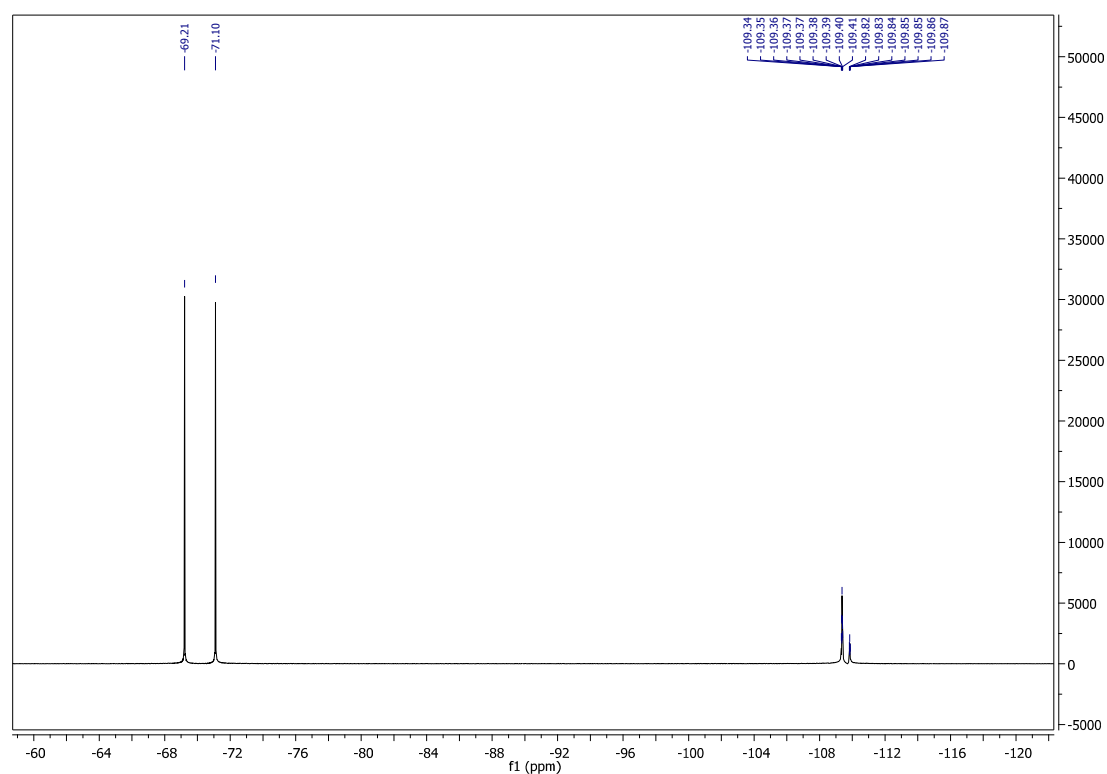
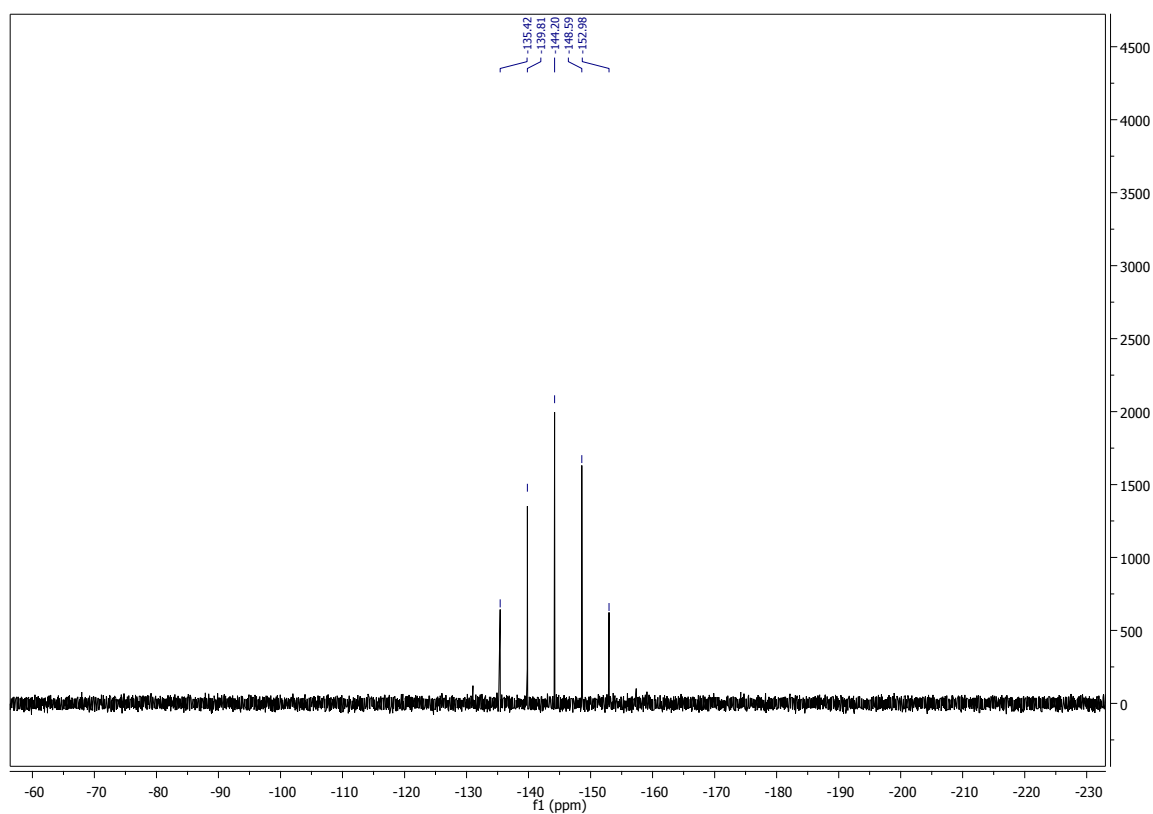


Figure S86. MS (ESI) of Compound 25.

Figure S87. ¹H NMR of Compound 26.Figure S88. ¹³C NMR of Compound 26.

Figure S89. ¹⁹F NMR of Compound 26.Figure S90. ³¹P NMR of Compound 26.

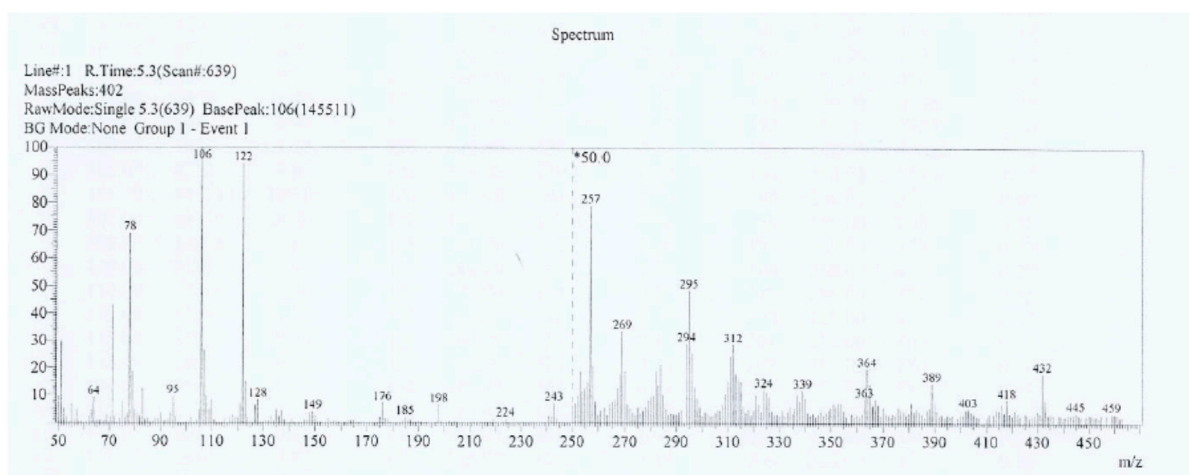
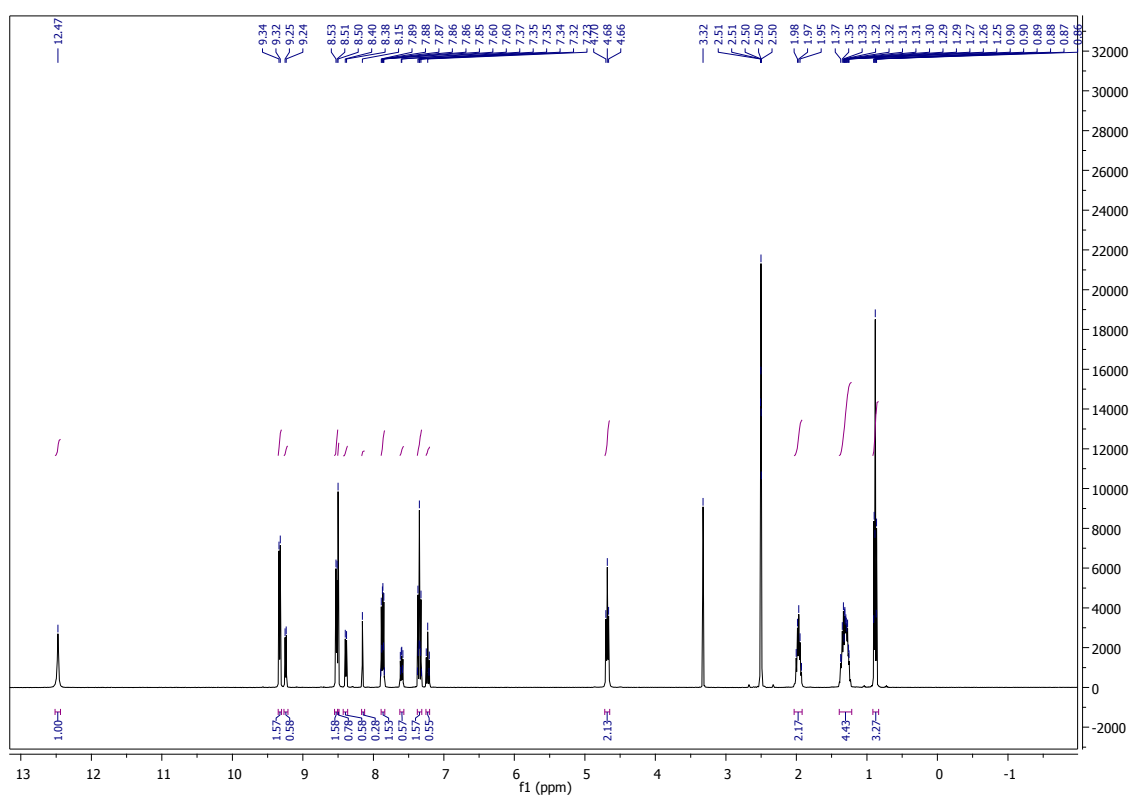
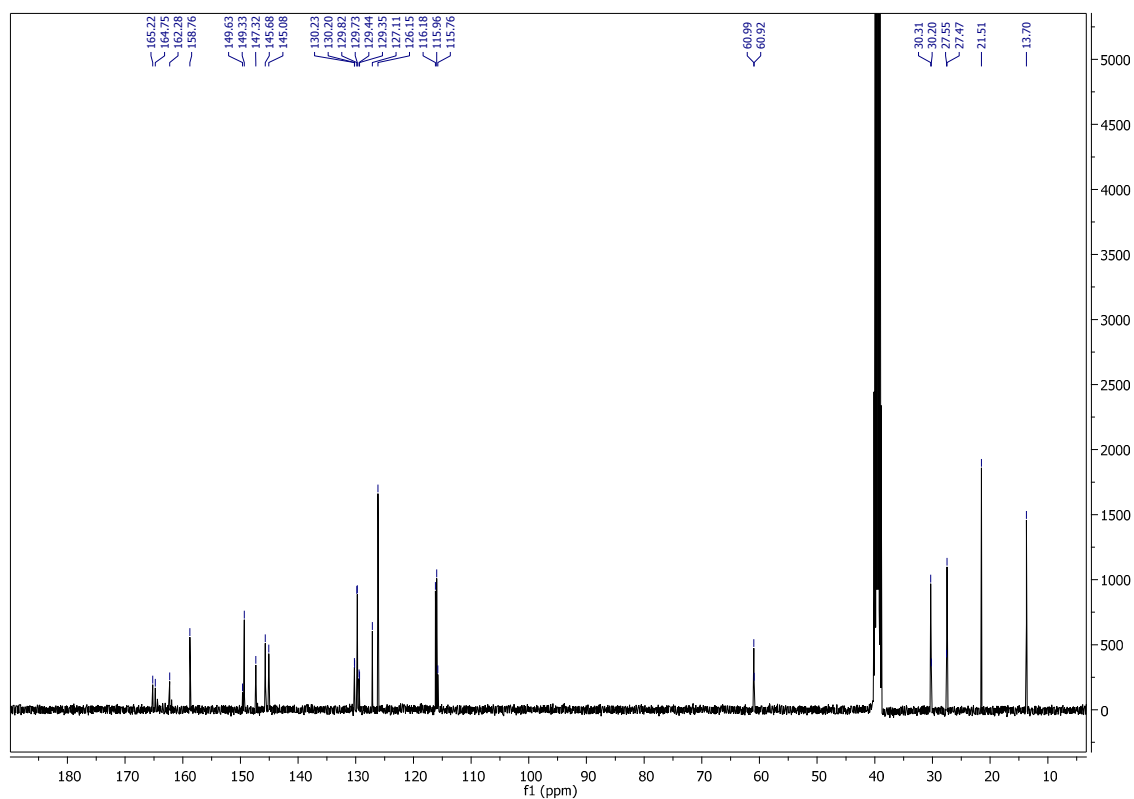
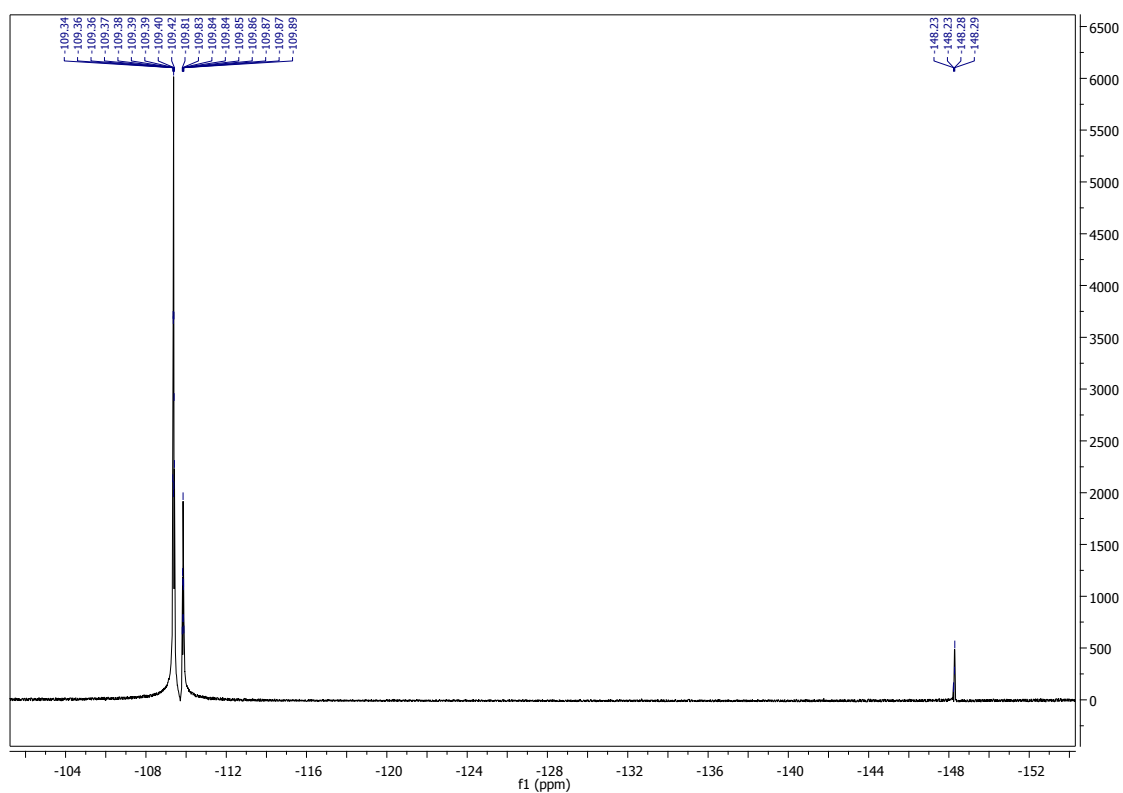
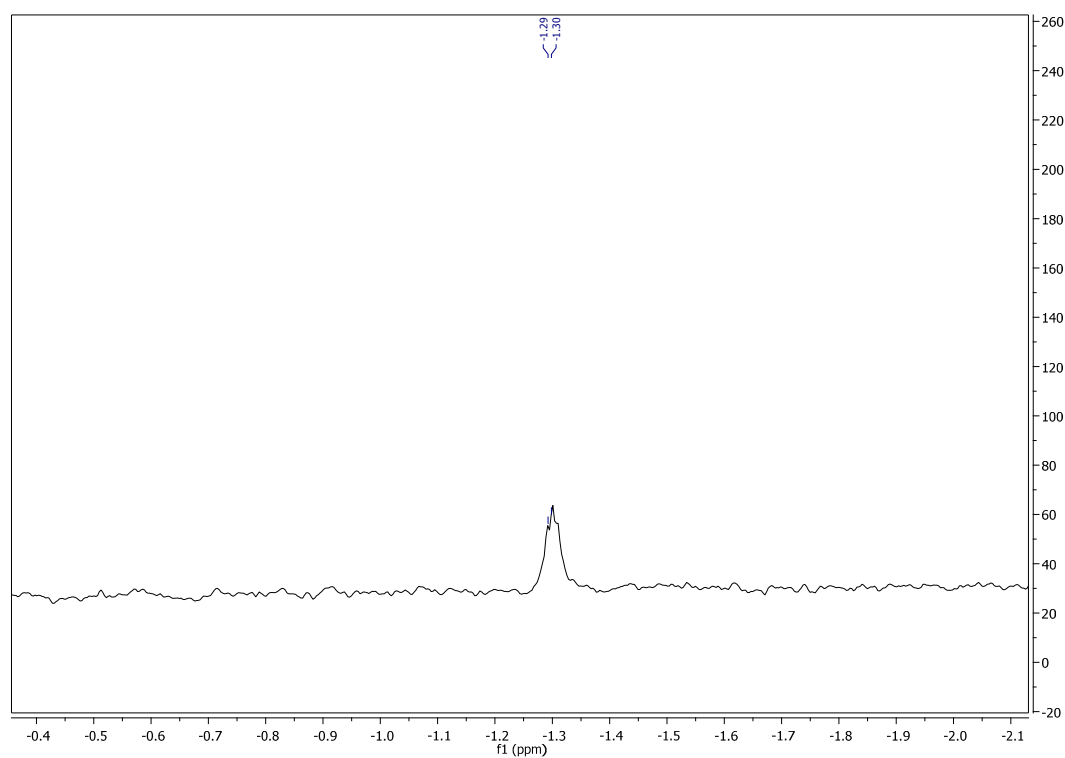
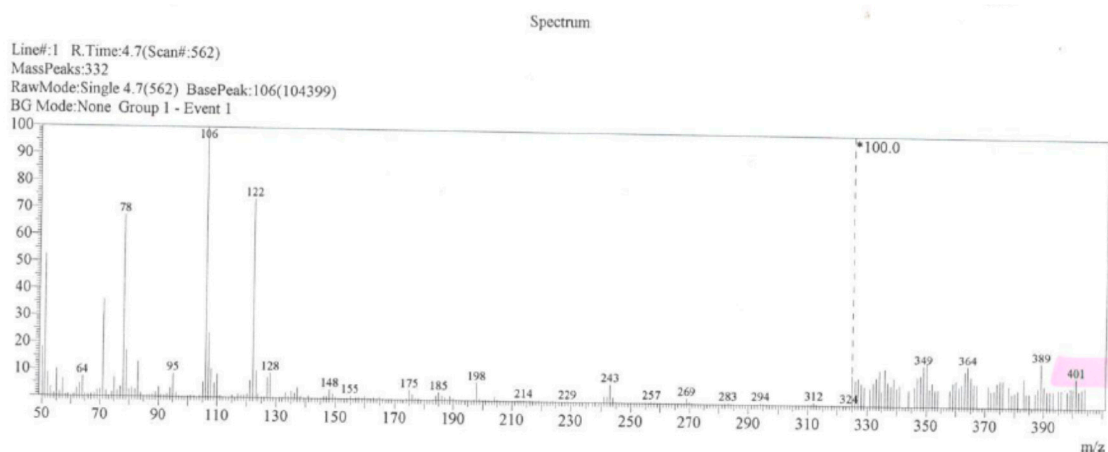
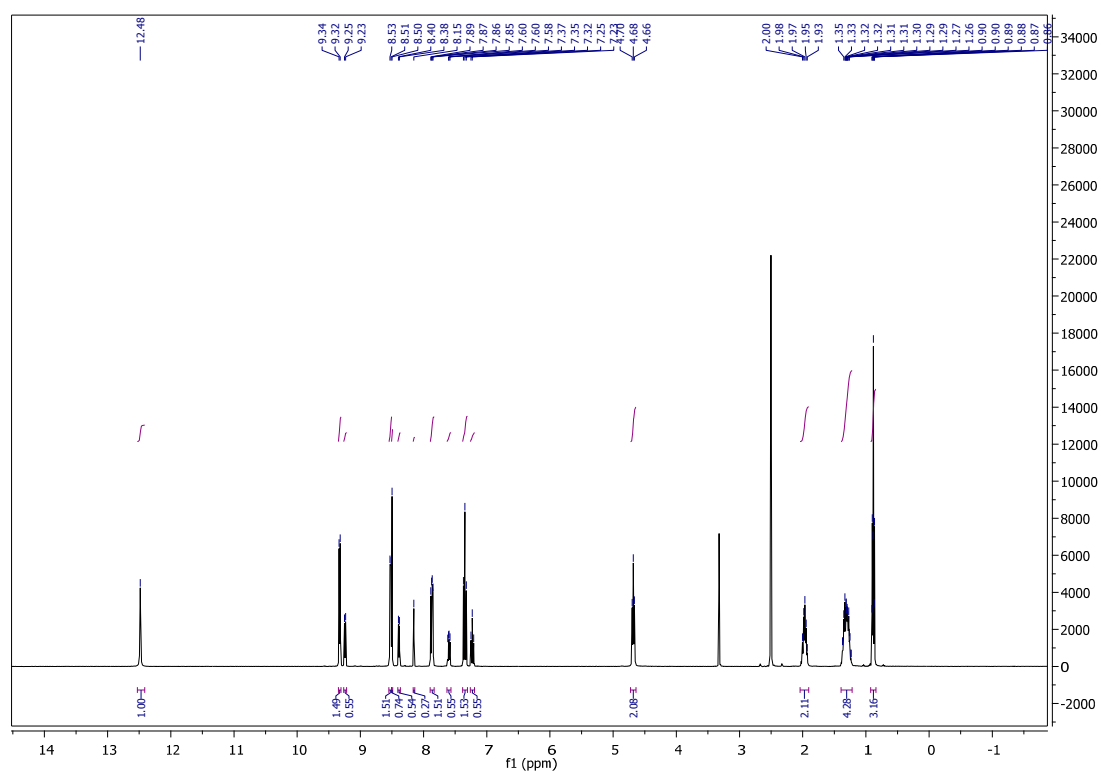
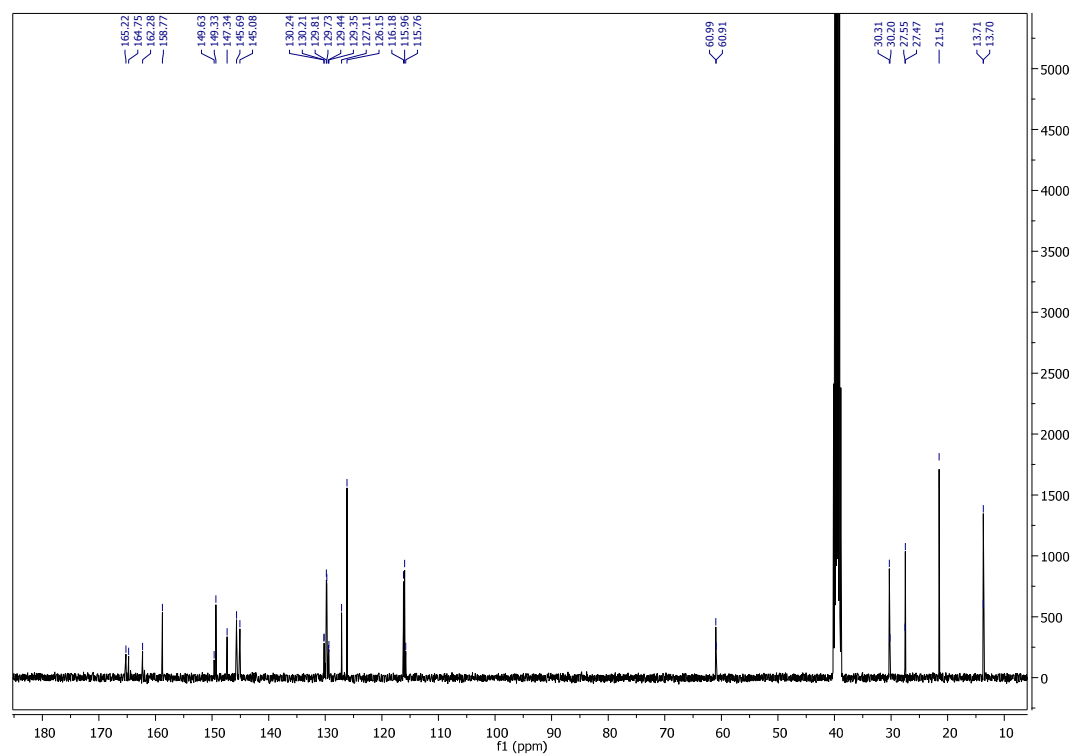


Figure S91. MS (ESI) of Compound 26.

Figure S92. ^1H NMR of Compound 27.

Figure S93. ¹³C NMR of Compound 27.Figure S94. ¹⁹F NMR of Compound 27.

**Figure S95.** ^{11}B NMR of Compound 27.**Figure S96.** MS (ESI) of Compound 27.

Figure S97. ¹H NMR of Compound 28.Figure S98. ¹³C NMR of Compound 28.

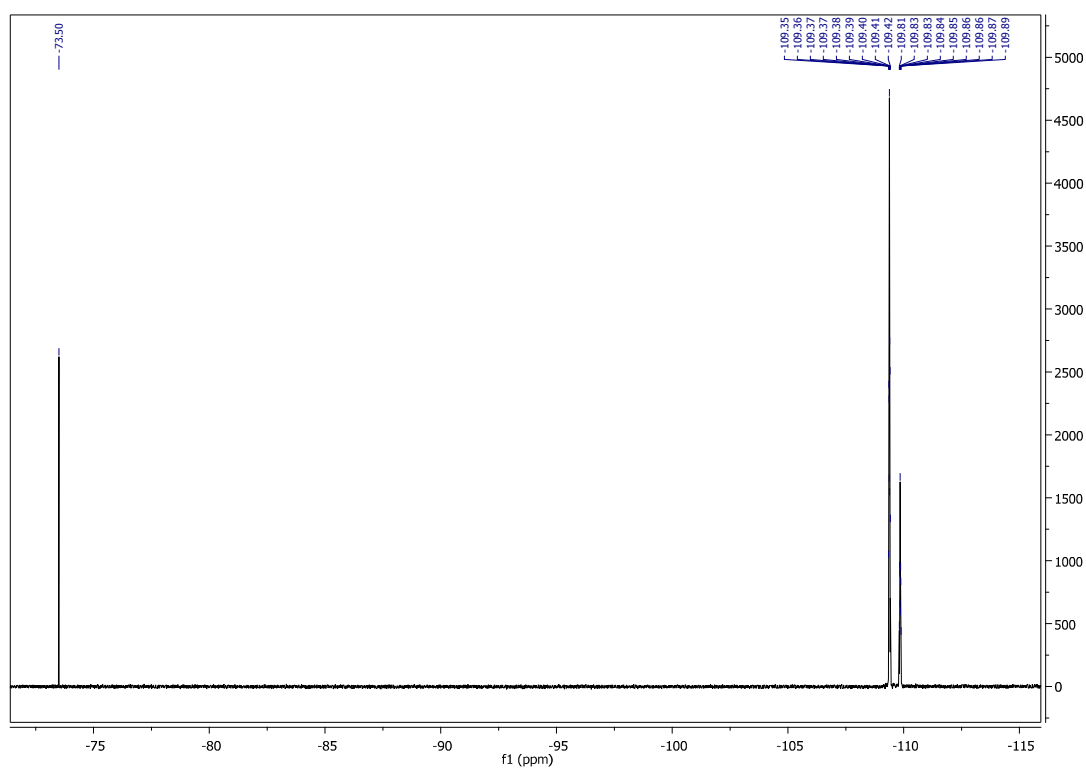
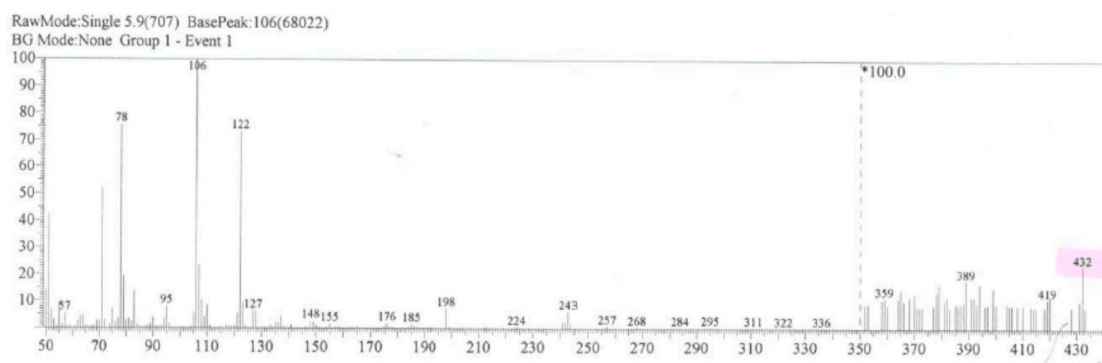
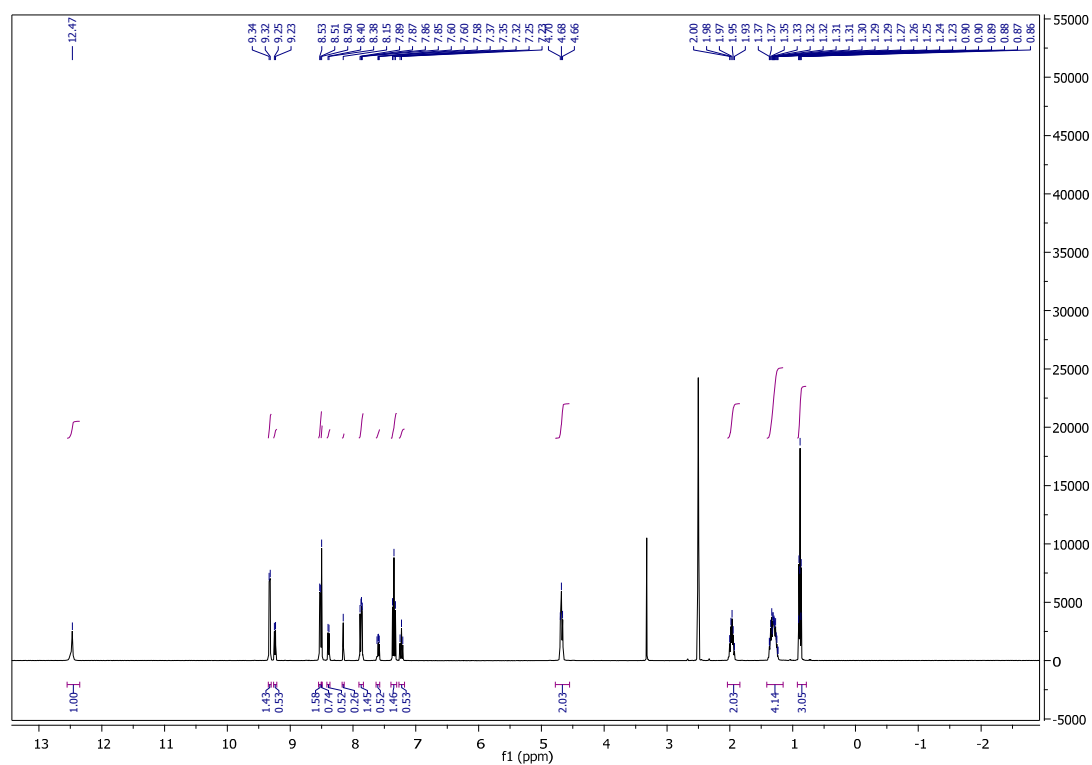
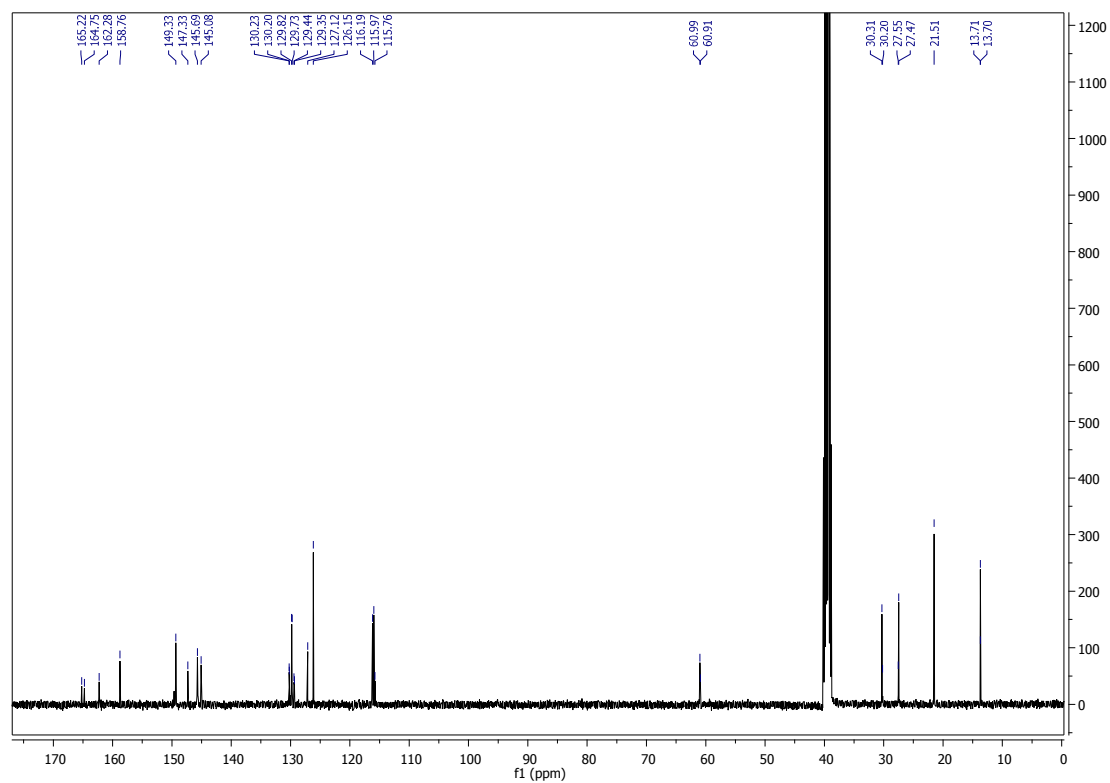
Figure S99. ^{19}F NMR of Compound 28.

Figure S100. MS (ESI) of Compound 28.

Figure S101. ¹H NMR of Compound 29.Figure S102. ¹³C NMR of Compound 29.

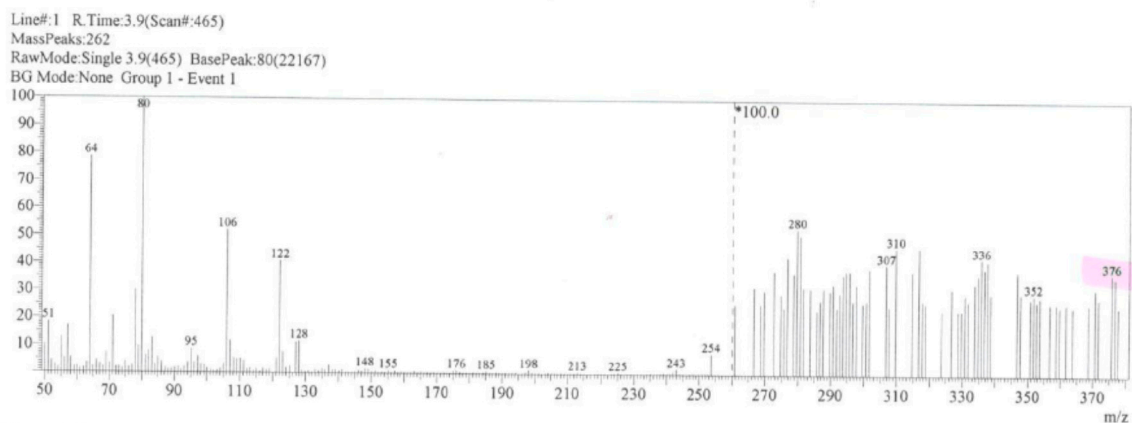
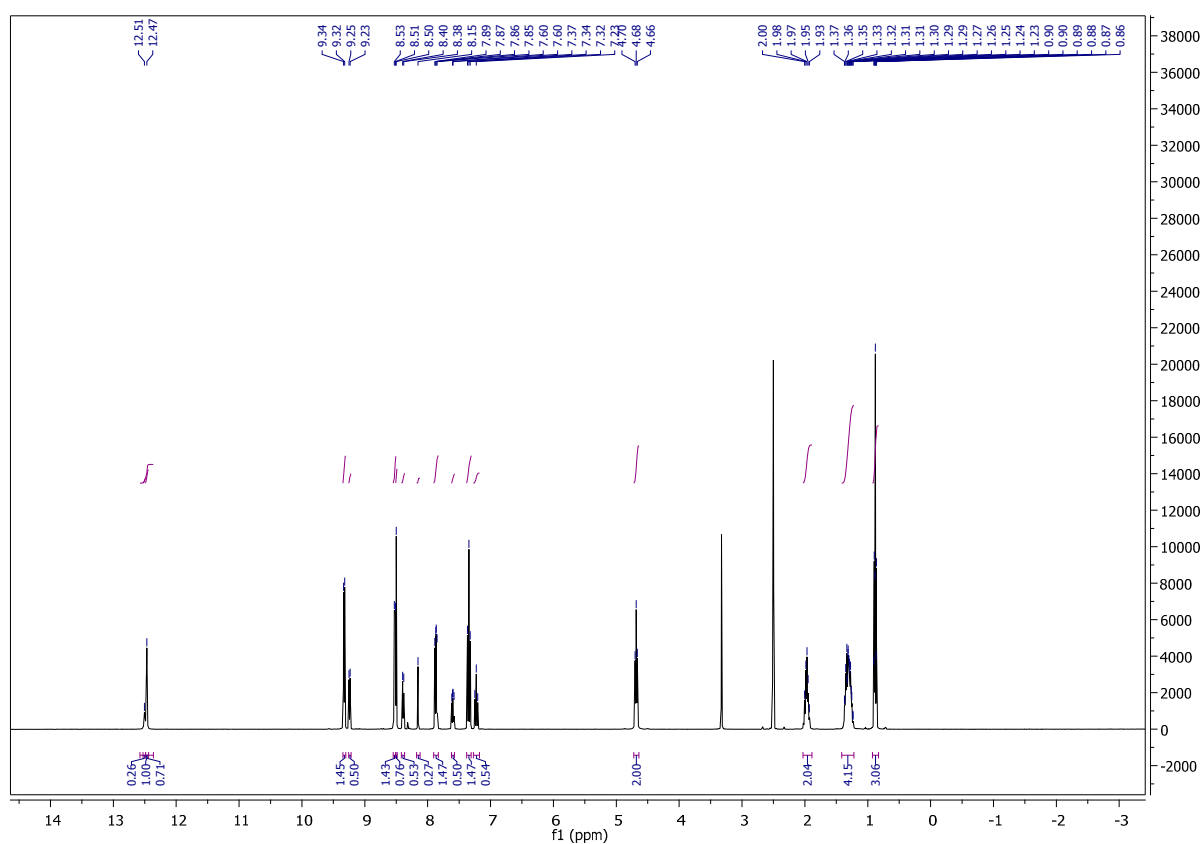


Figure S103. MS (ESI) of Compound 29.

Figure S104. ^1H NMR of Compound 30.

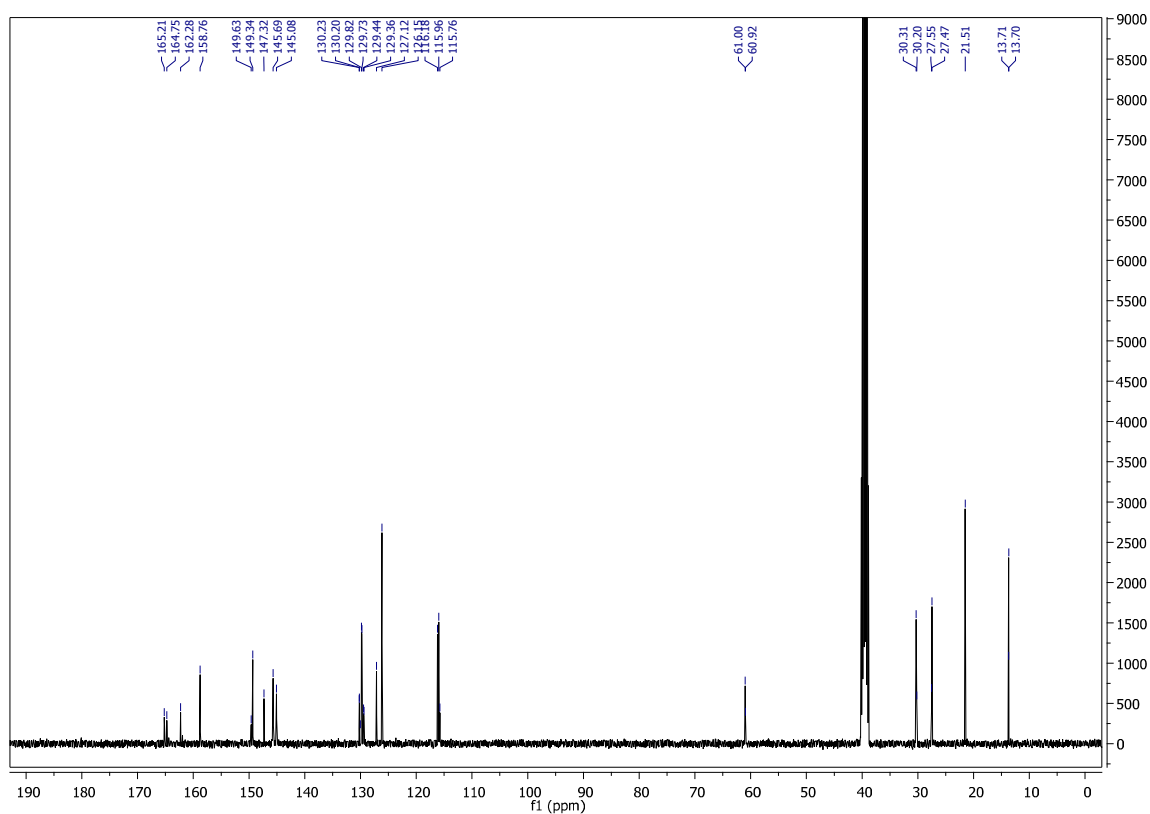
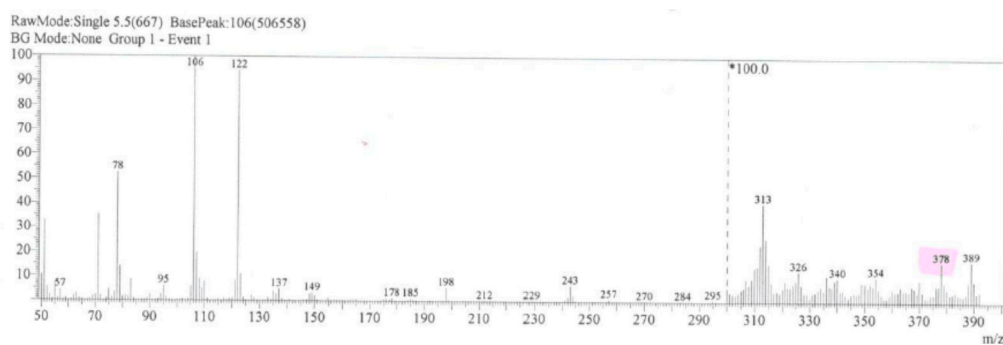
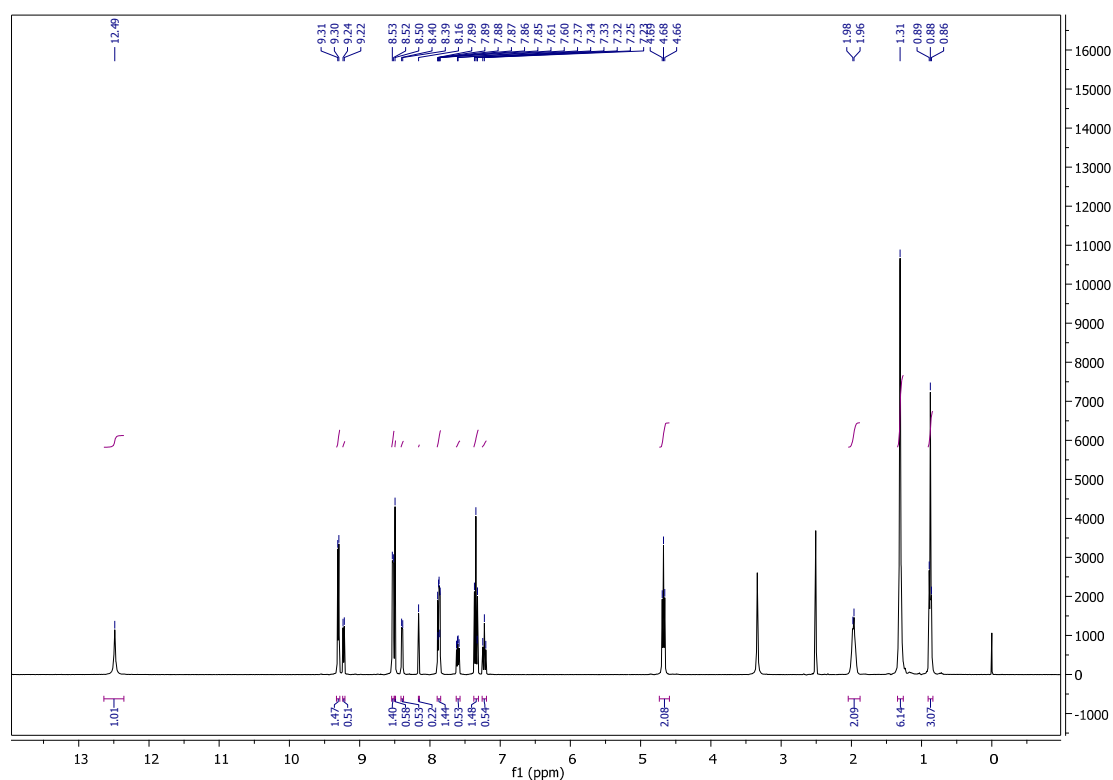
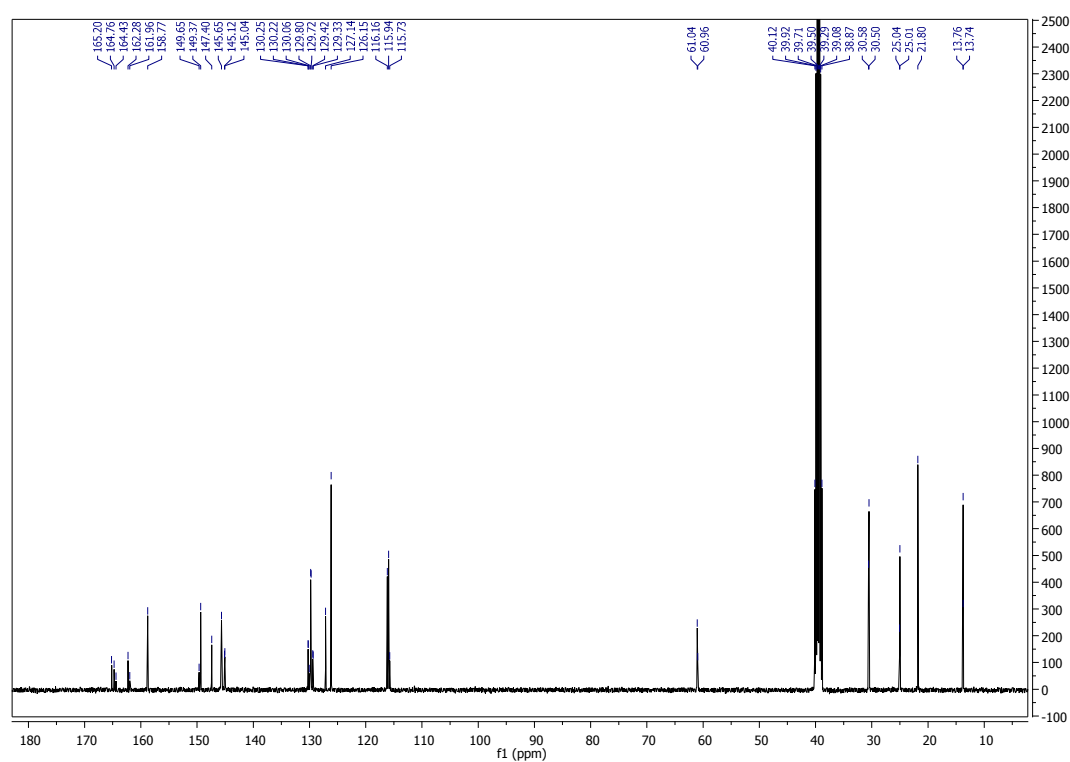
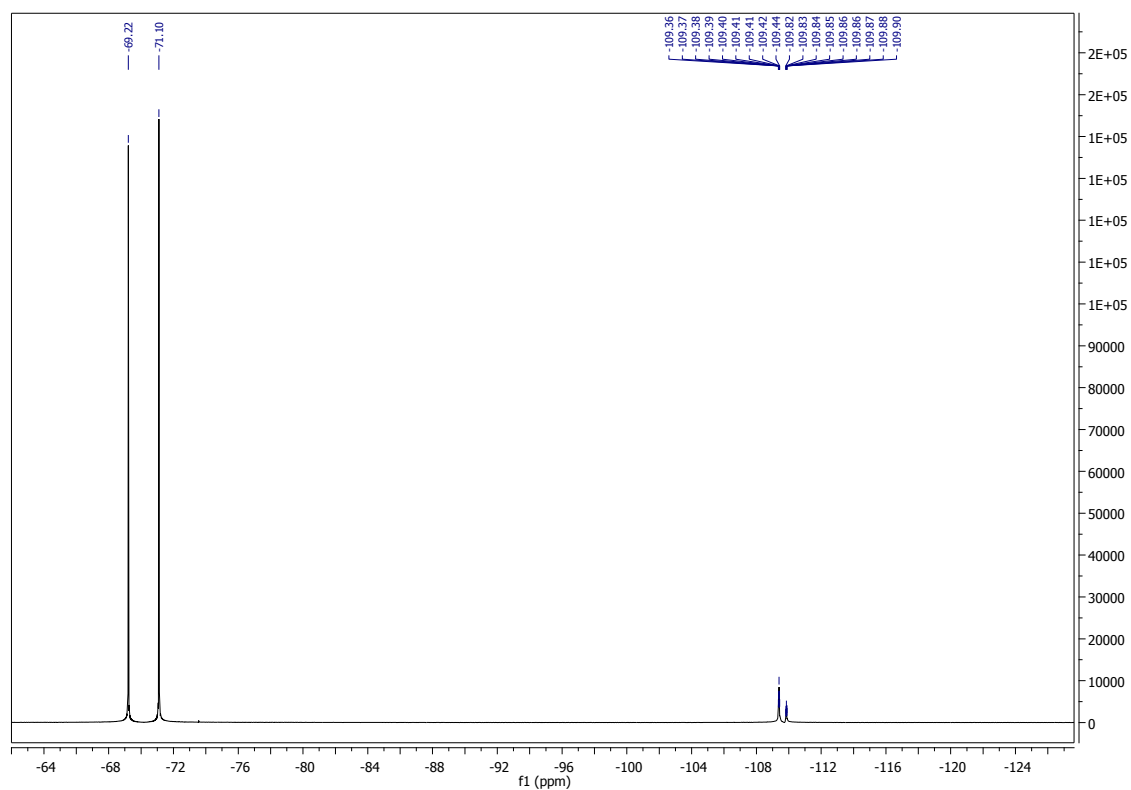
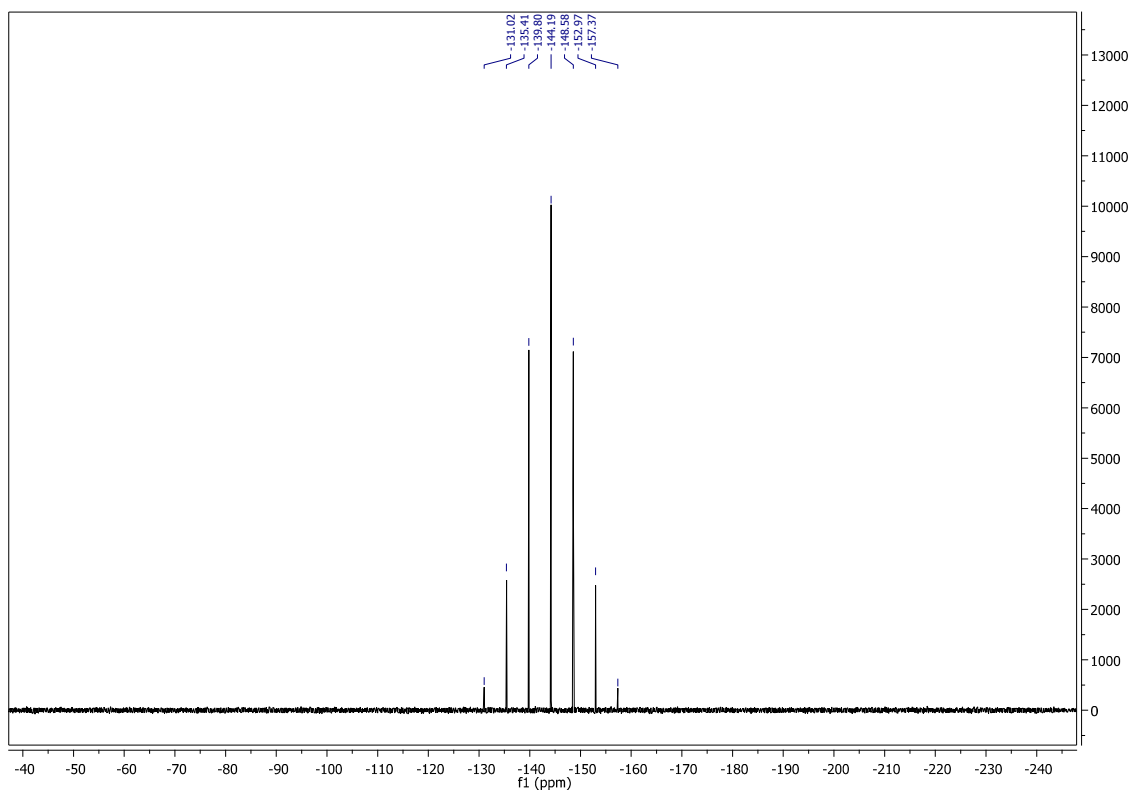
Figure S105. ¹³C NMR of Compound 30.

Figure S106. MS (ESI) of Compound 30.

Figure S107. ¹H NMR of Compound 31.Figure S108. ¹³C NMR of Compound 31.

Figure S109. ¹⁹F NMR of Compound 31.Figure S110. ³¹P NMR of Compound 31.

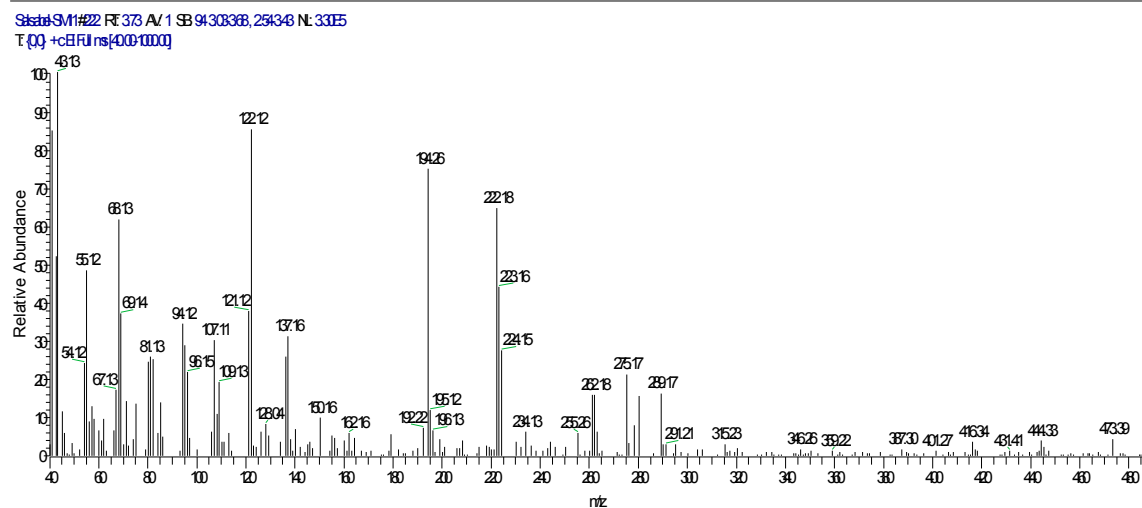
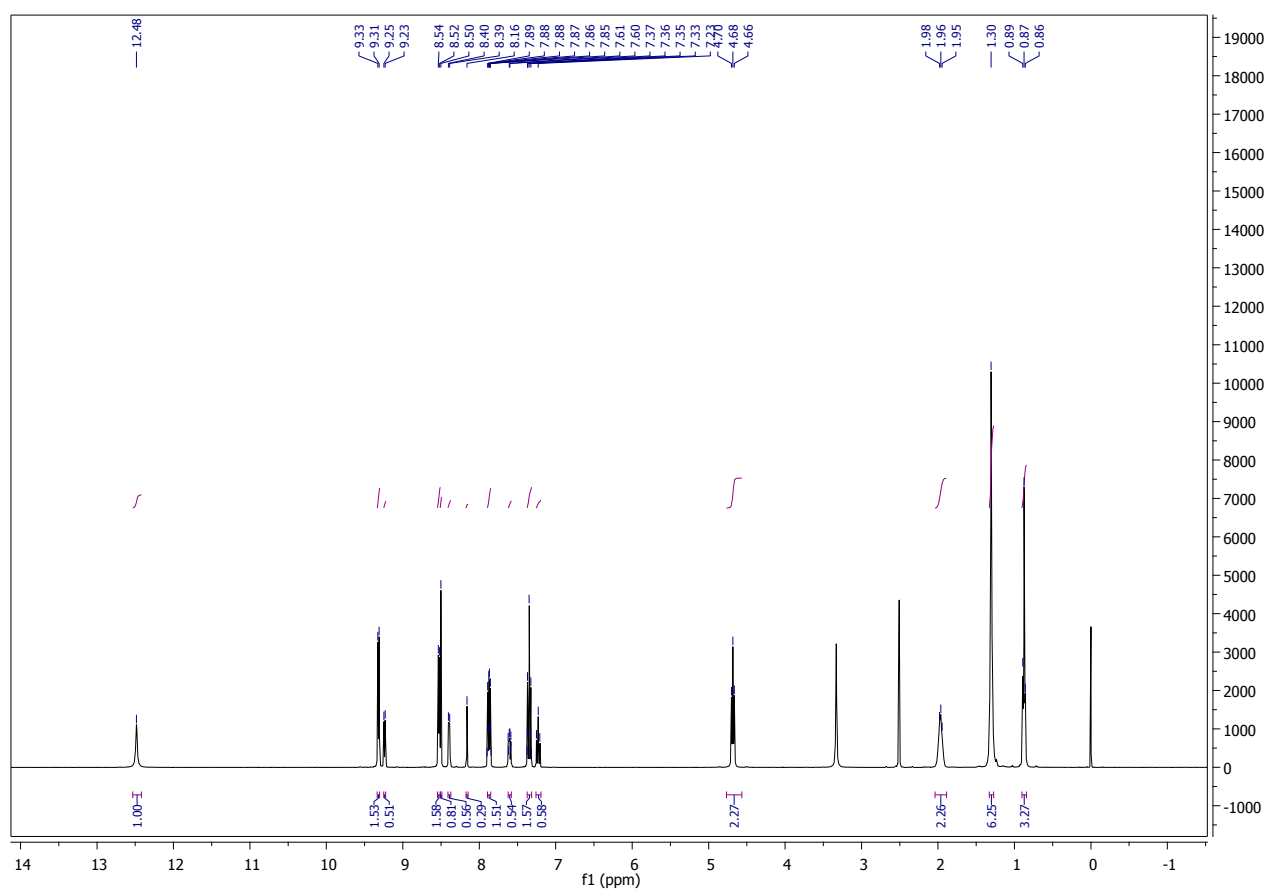
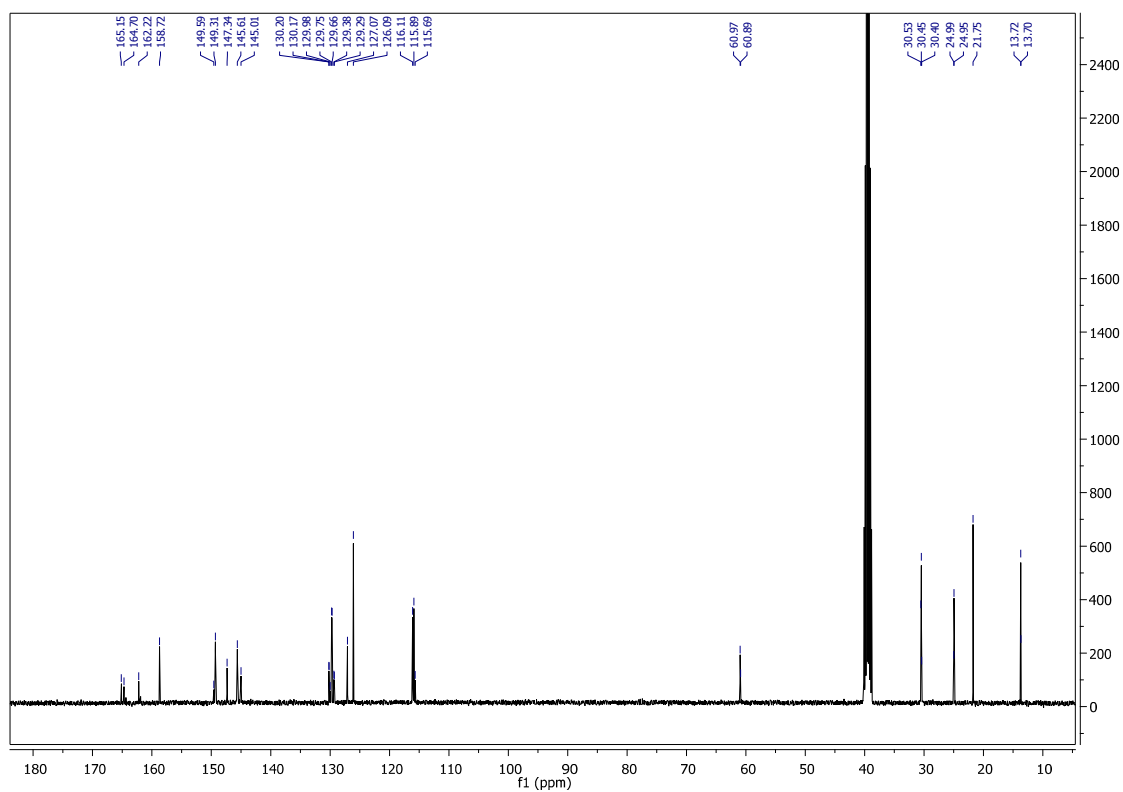
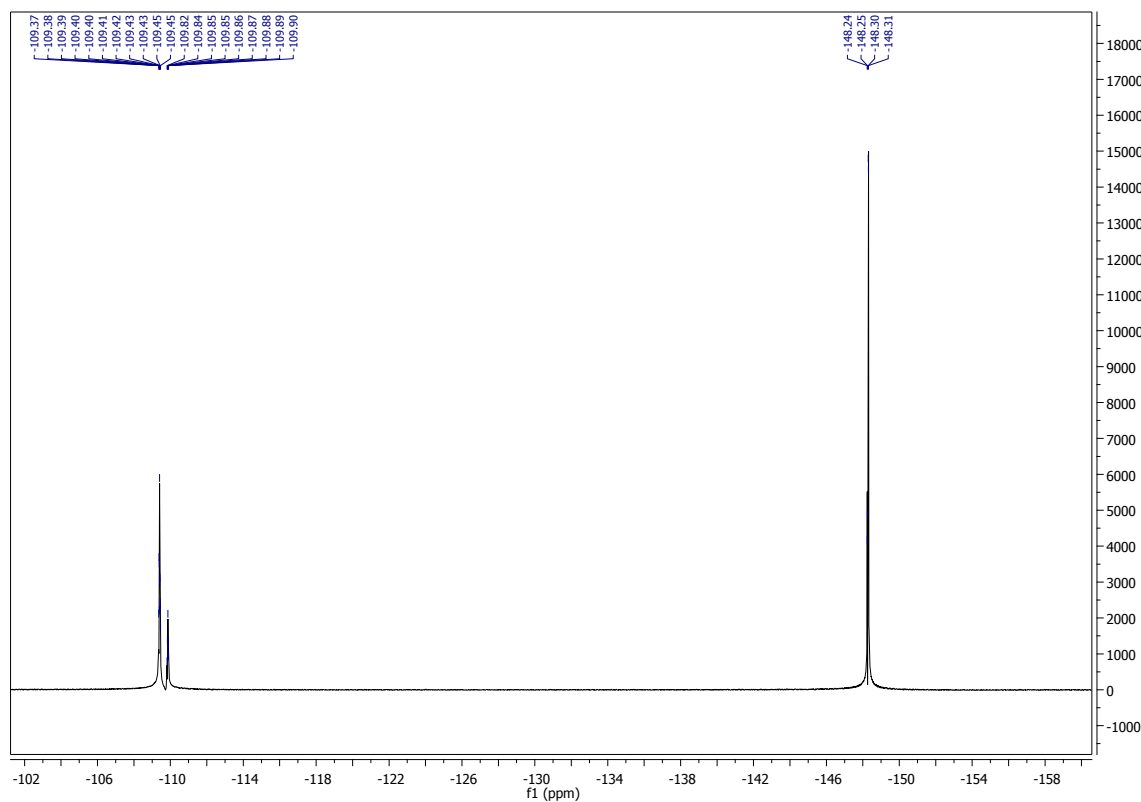


Figure S111. MS (ESI) of Compound 31.

Figure S112. ¹H NMR of Compound 32.

Figure S113. ¹³C NMR of Compound 32.Figure S114. ¹⁹F NMR of Compound 32.

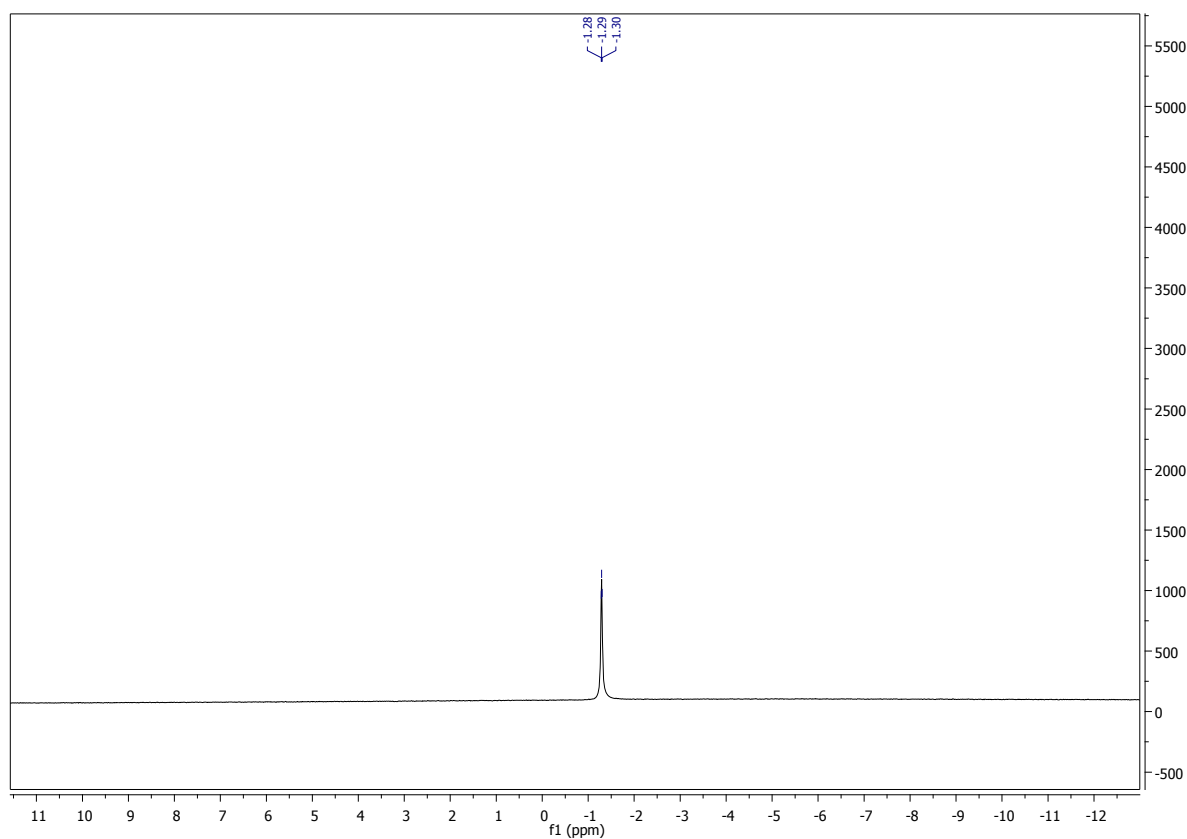
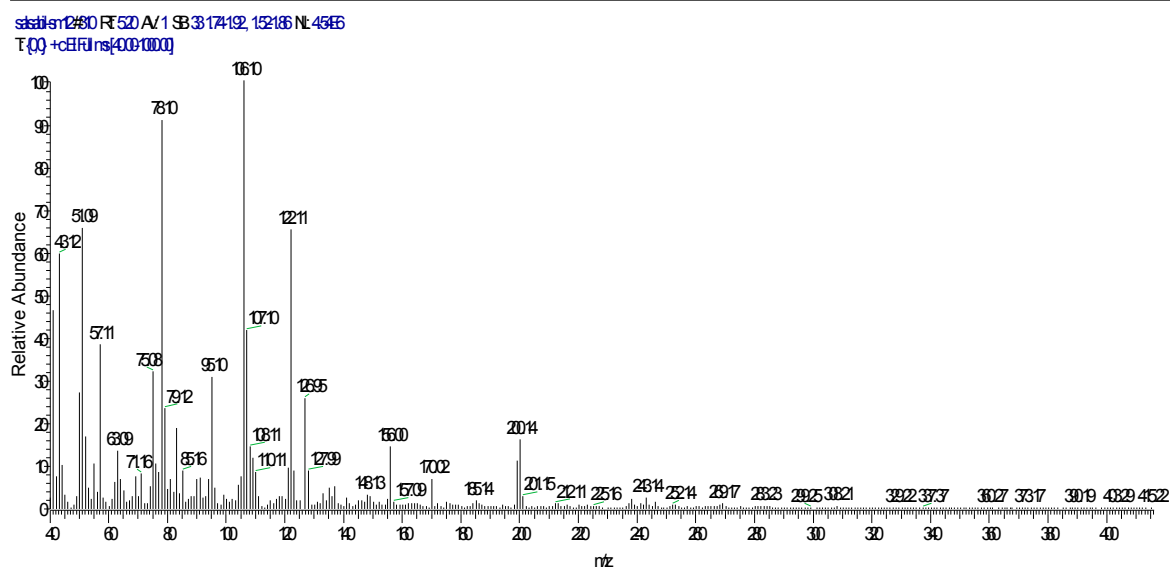
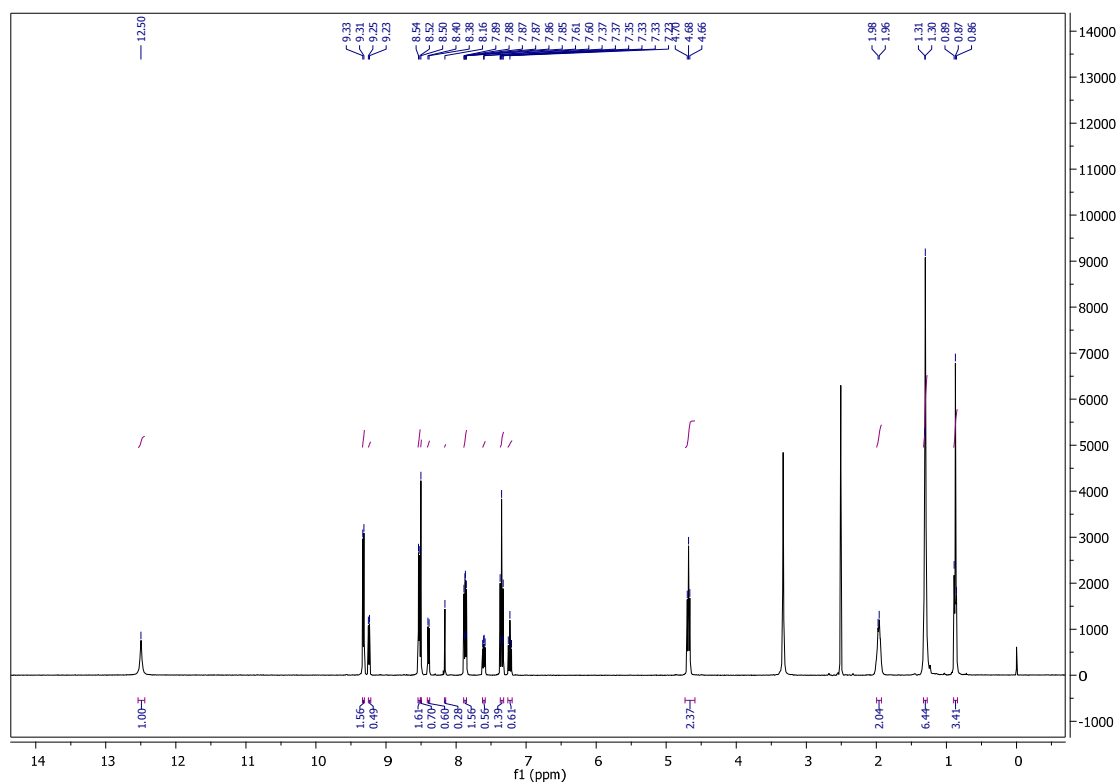
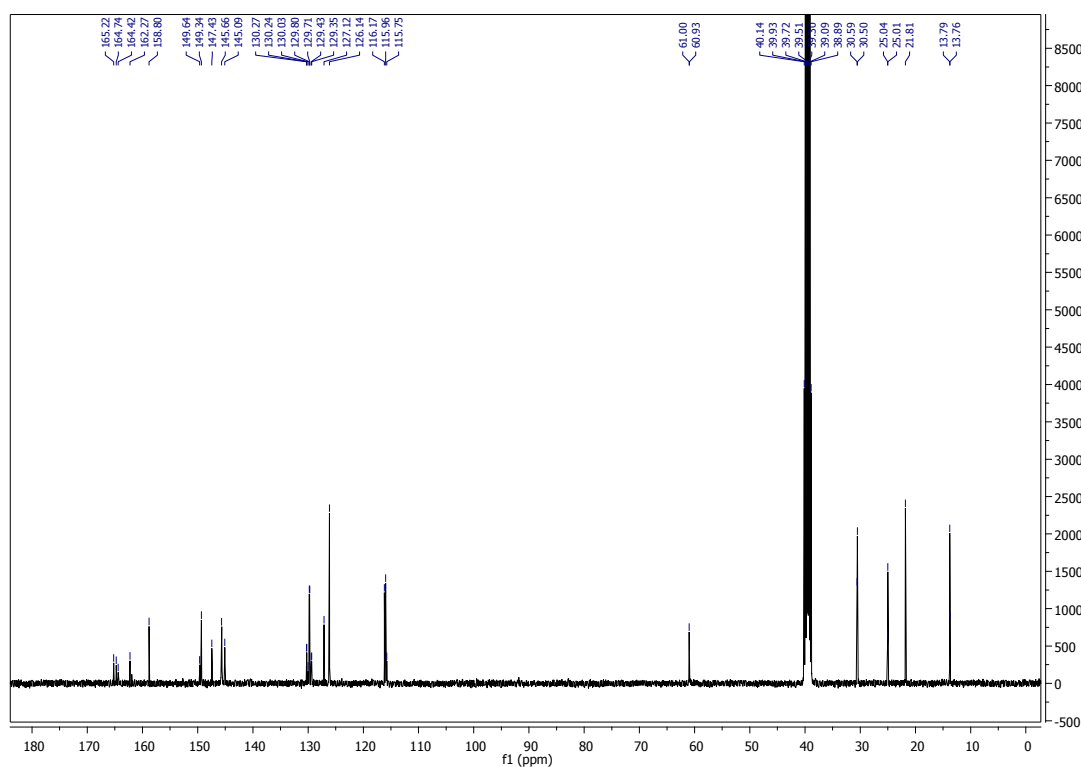
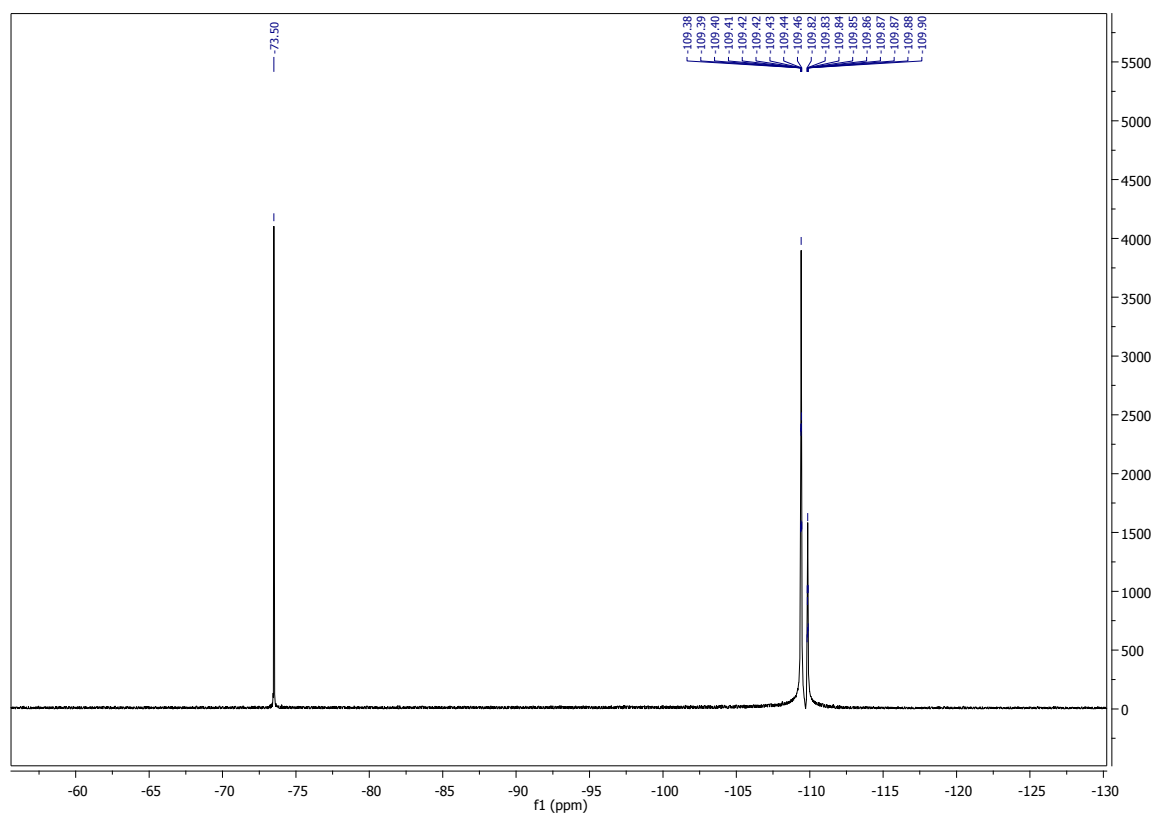
Figure S115. ^{11}B NMR of Compound 32.

Figure S116. MS (ESI) of Compound 32.

Figure S117. ¹H NMR of Compound 33.Figure S118. ¹³C NMR of Compound 33.

Figure S119. ¹⁹F NMR of Compound 33.

salsabil-SM15 #79 RT: 1.34 AV: 1 SB: 80 1.17-1.67, 0.84-1.64 NL: 2.84E5
T: [0.0] + c EI Full ms [40.00-1000.00]

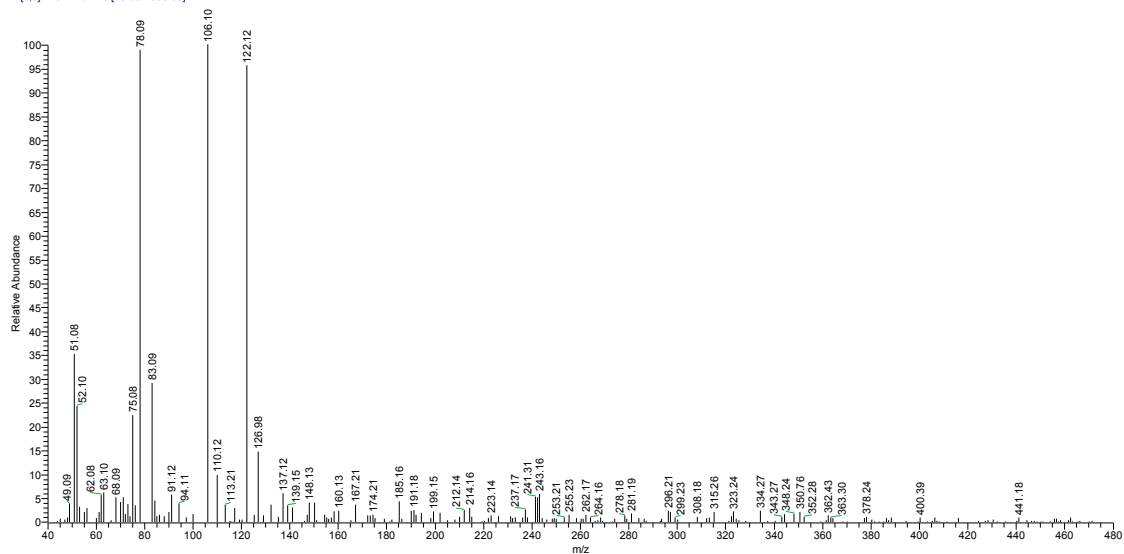
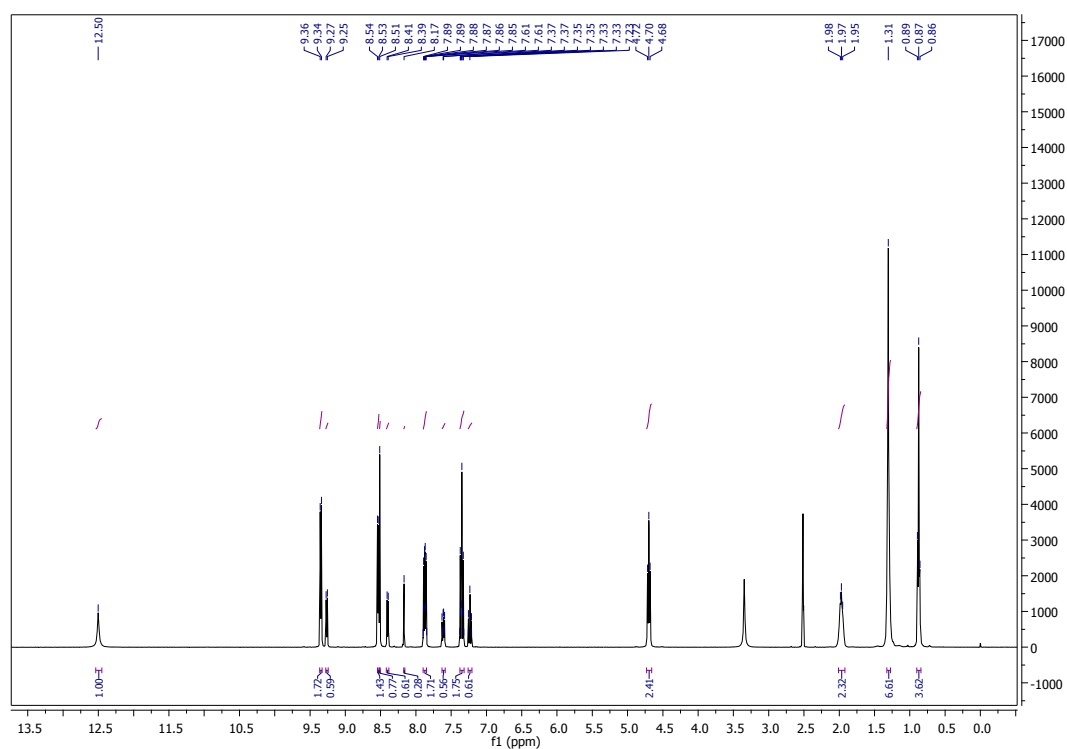
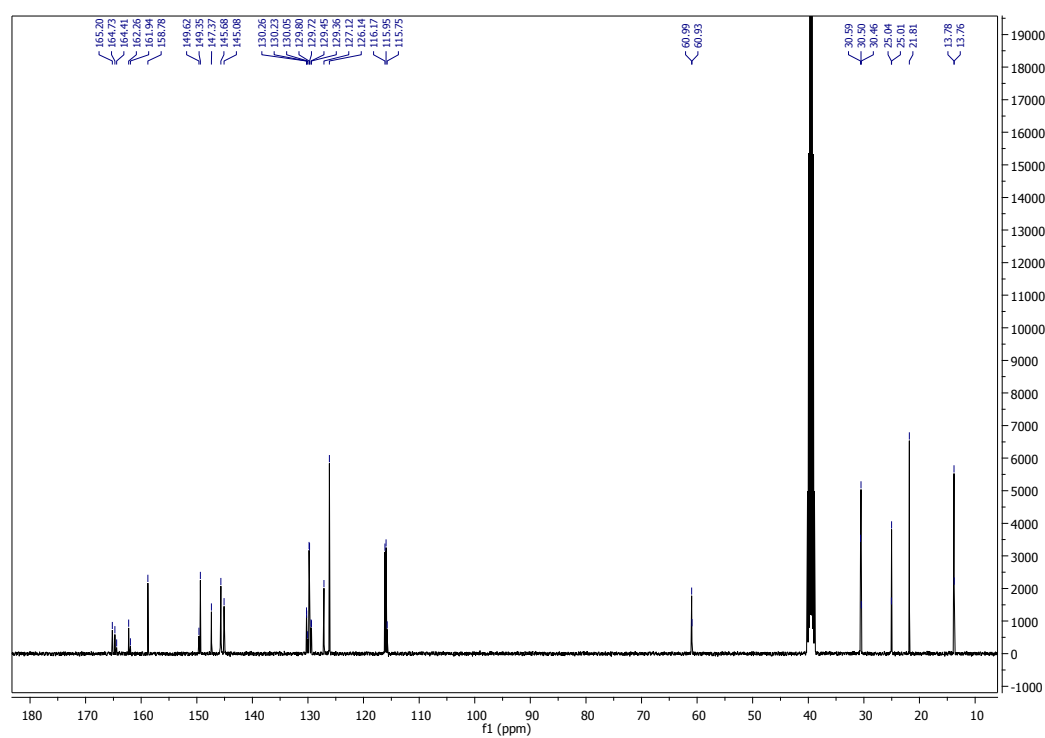


Figure S120. MS (ESI) of Compound 33.

Figure S121. ¹H NMR of Compound 34.Figure S122. ¹³C NMR of Compound 34.

salsabil-SM13 #149 RT: 2.51 AV: 1 SB: 23 5.27-5.54, 5.36-5.44 NL: 2.21E6
T: (0.0) + c EI Full ms [40.00-1000.00]

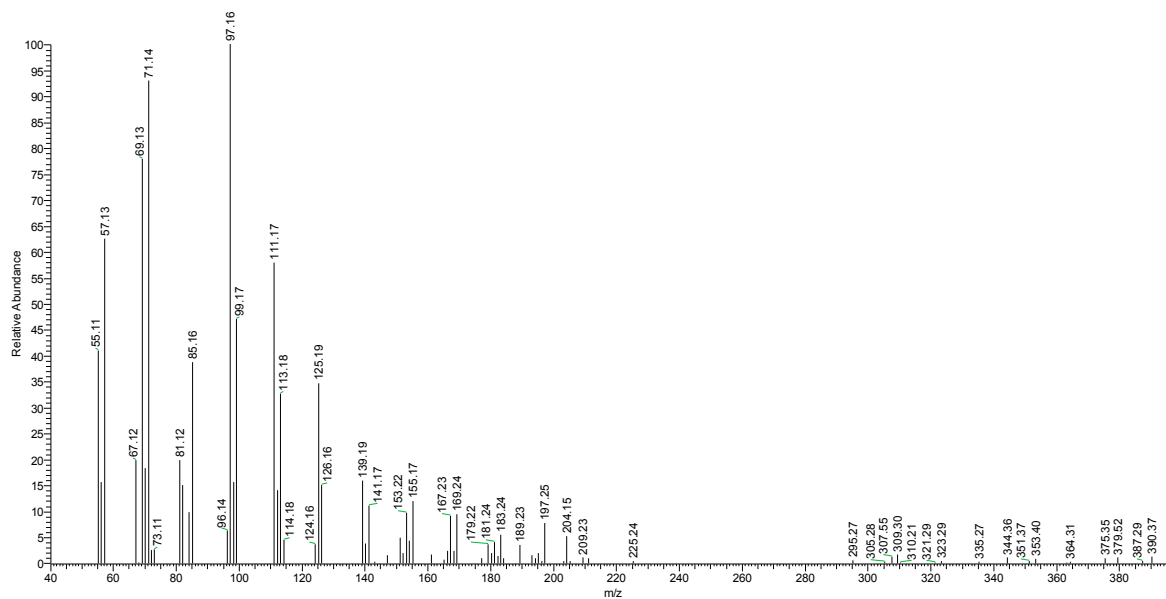


Figure S123. MS (ESI) of Compound 34.

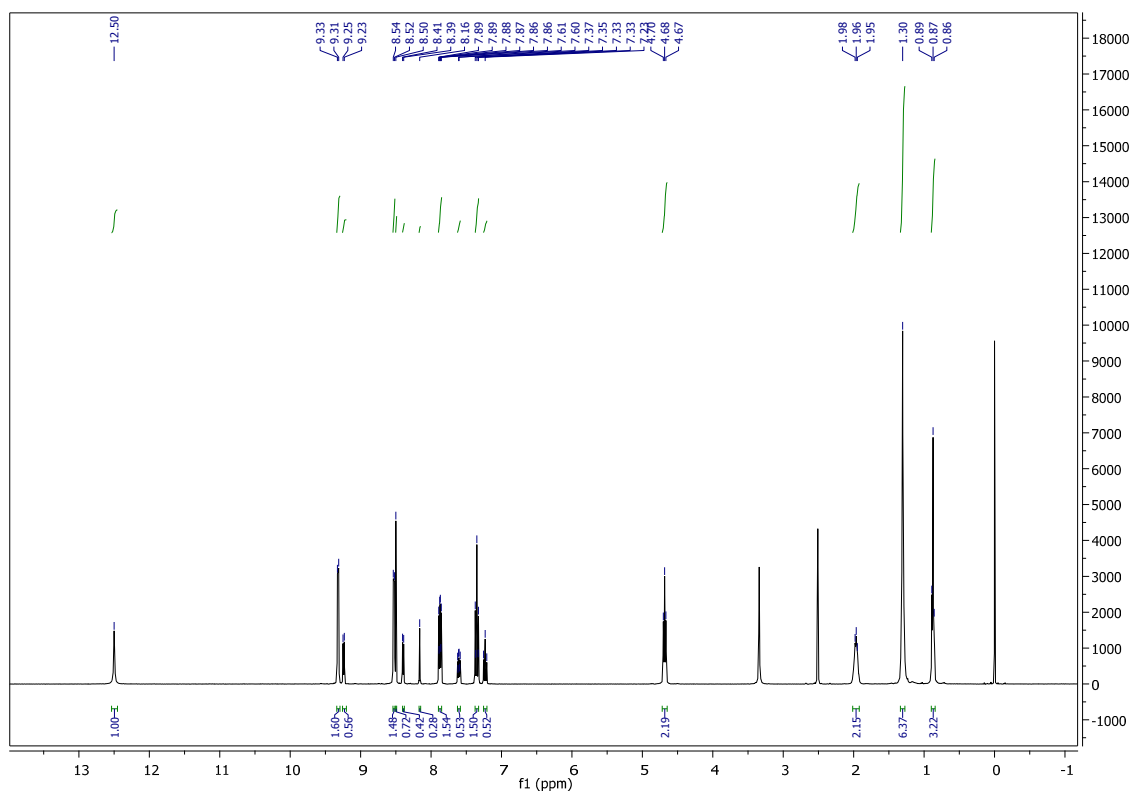
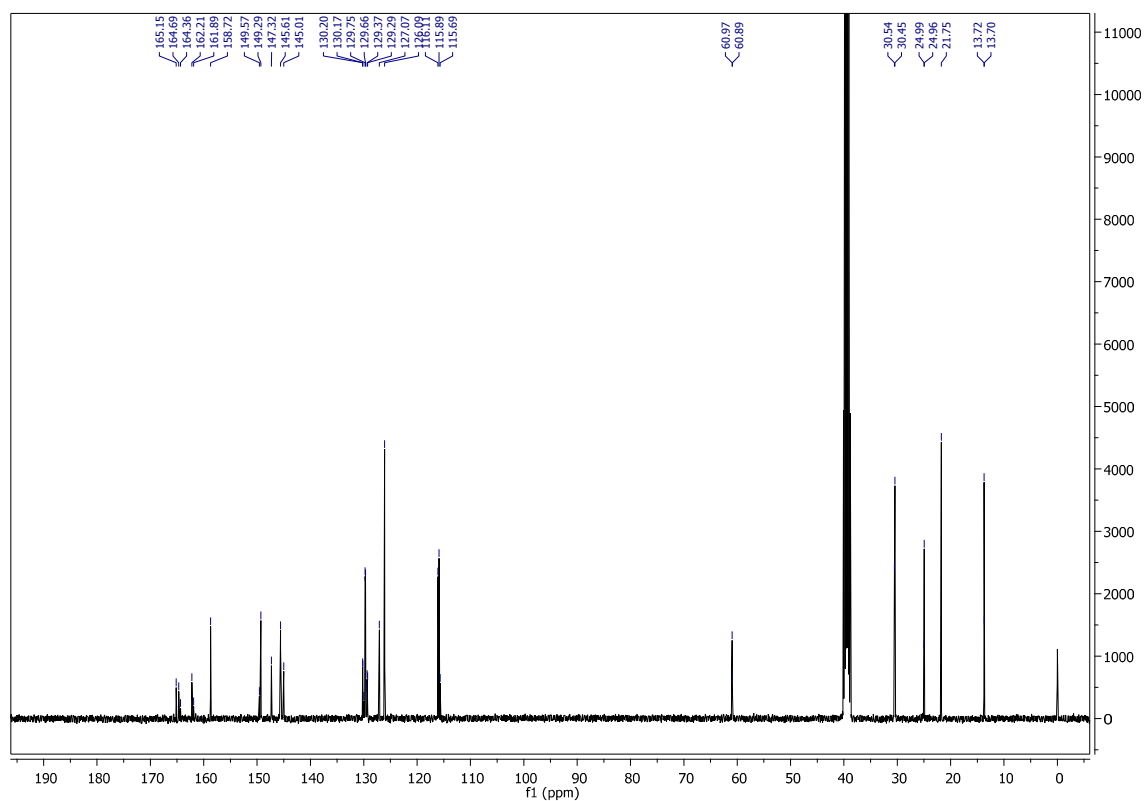


Figure S124. ¹H NMR of Compound 35.

Figure S125. ^{13}C NMR of Compound 35.

salsabil-sm14#258 RT: 4.33 AV: 1 SB: 91 3.98-4.62, 3.46-4.32 NL: 1.51E6
T: (0,0) +cEIFullms [40.00-1000.00]

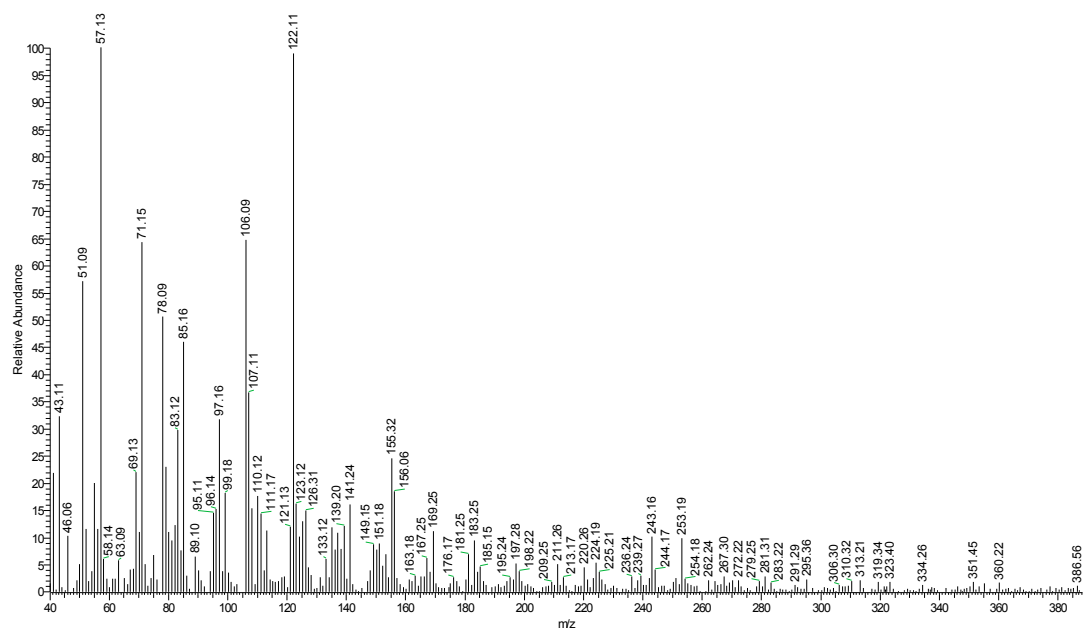
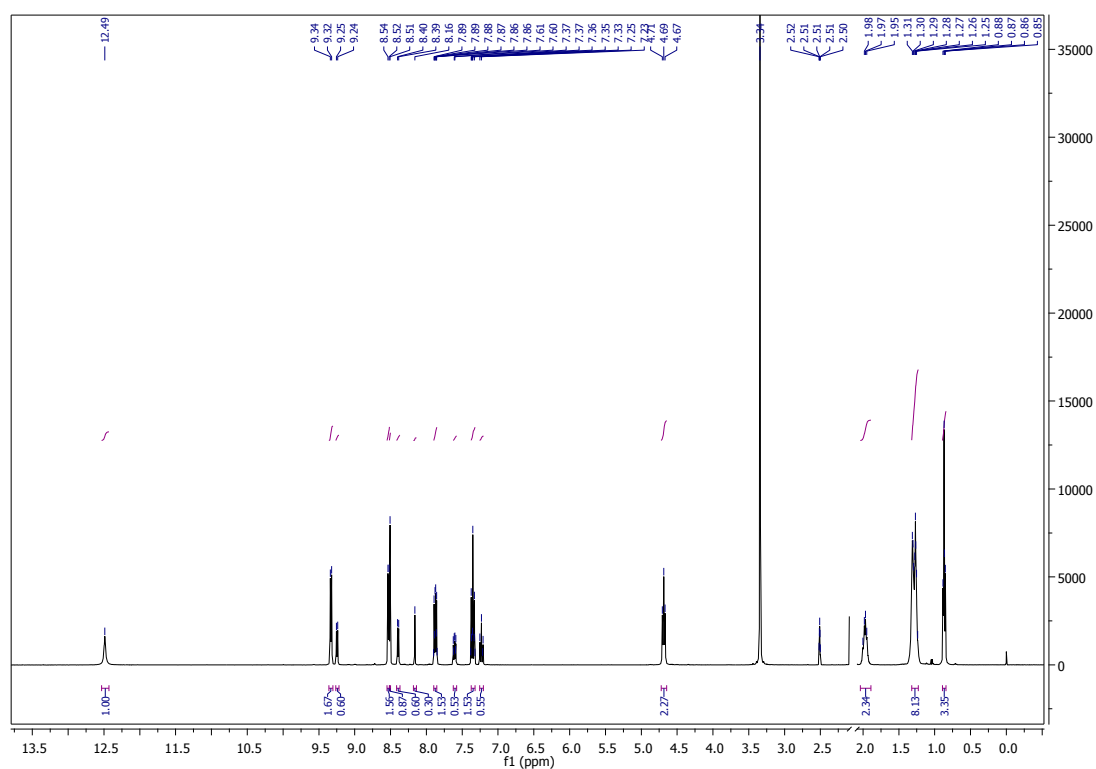
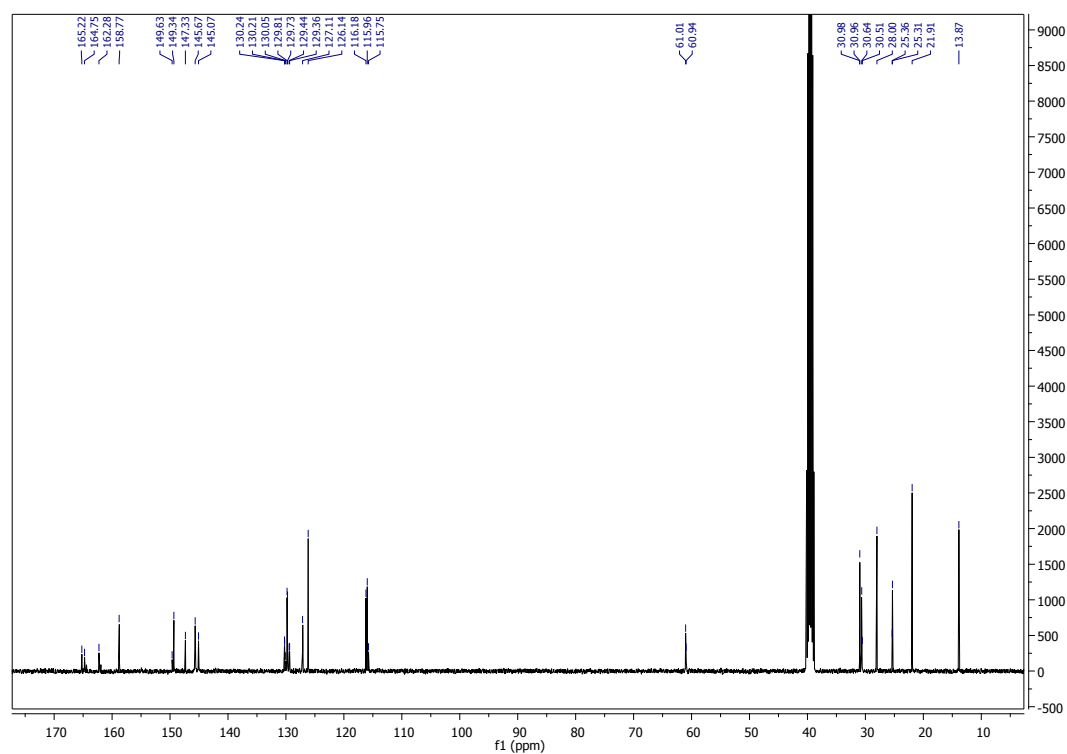
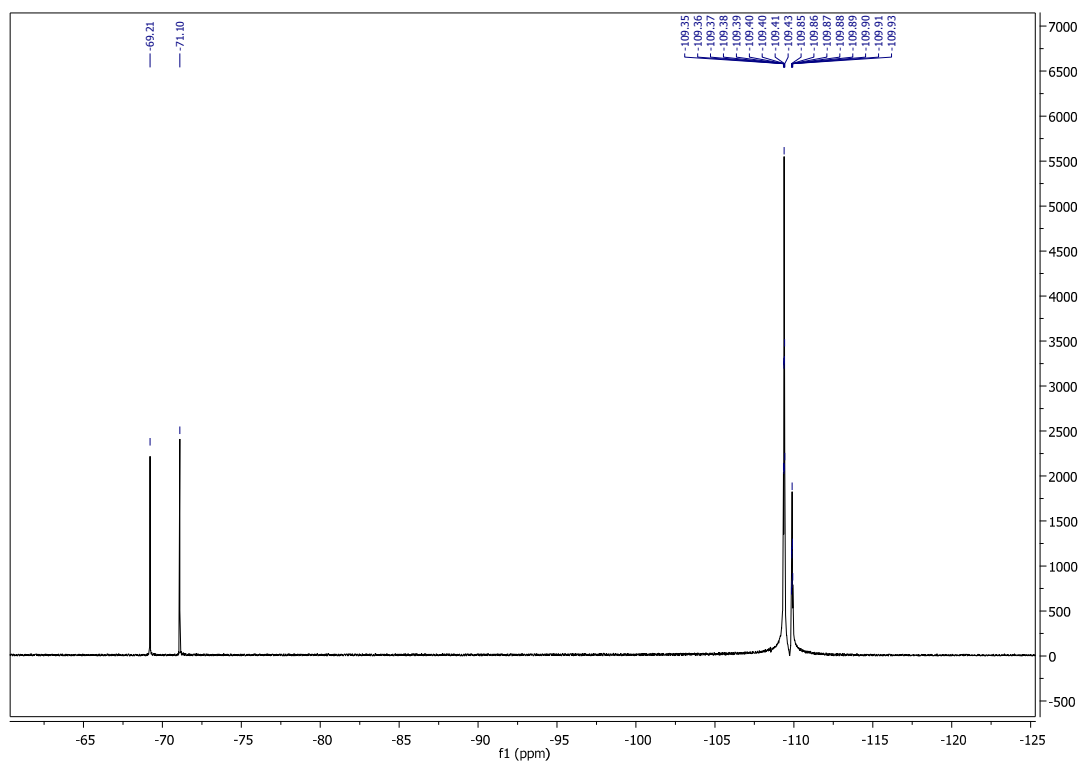
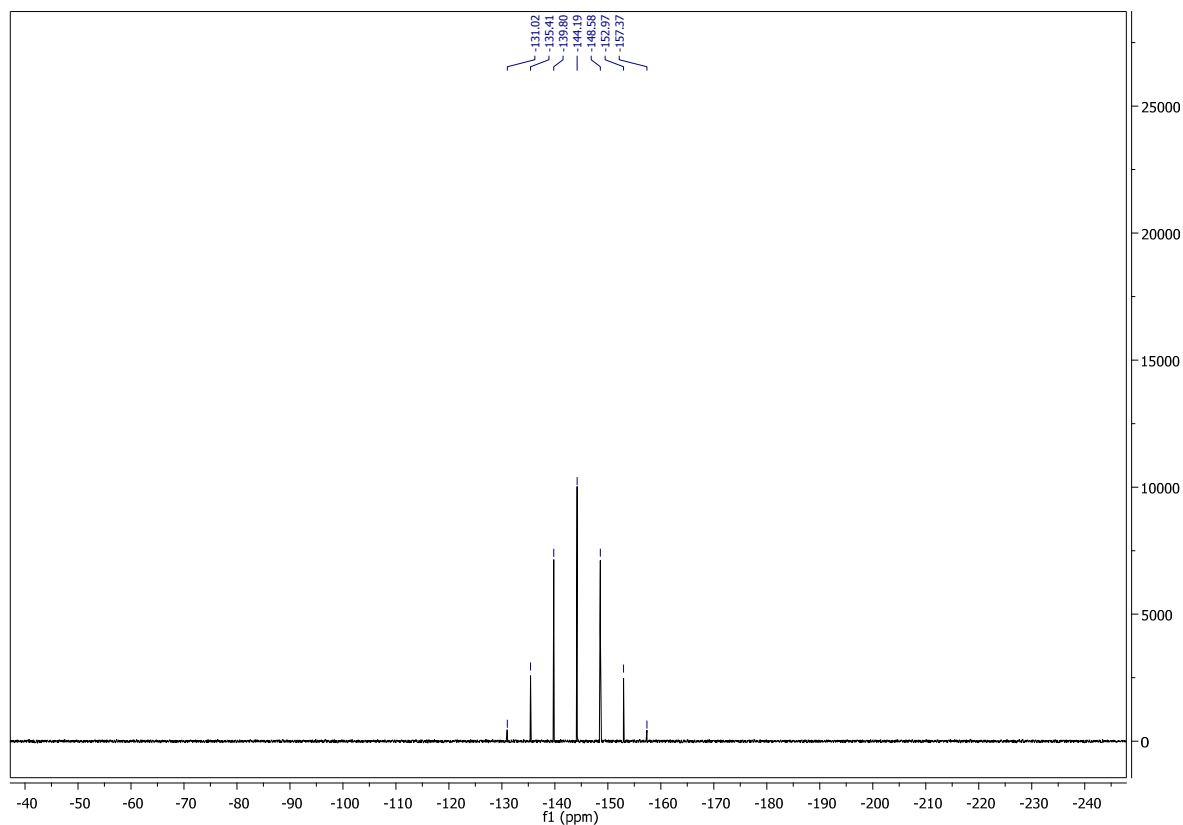


Figure S126. MS (ESI) of Compound 35.

Figure S127. ¹H NMR of Compound 36.Figure S128. ¹³C NMR of Compound 36.

Figure S129. ^{19}F NMR of Compound 36.Figure S130. ^{31}P NMR of Compound 36.

Salsabel-SM26 #272 RT: 4.57 AV: 1 SB: 33 3.30-3.65, 3.21-3.38 NL: 2.70E5
T: [0.0] + c EI Full ms [40.00-1000.00]

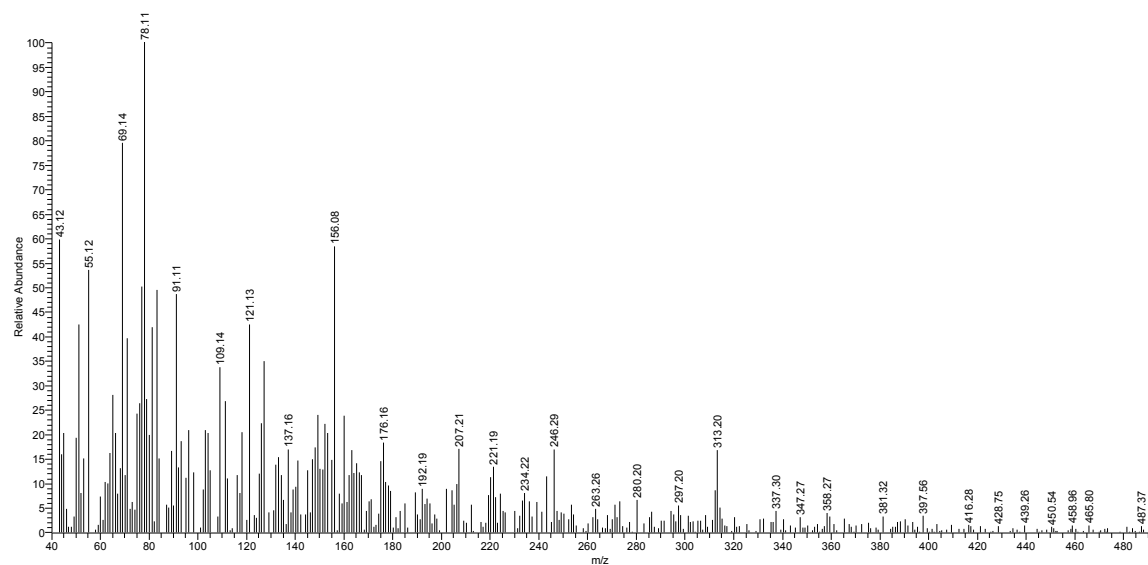


Figure S131. MS (ESI) of Compound 36.

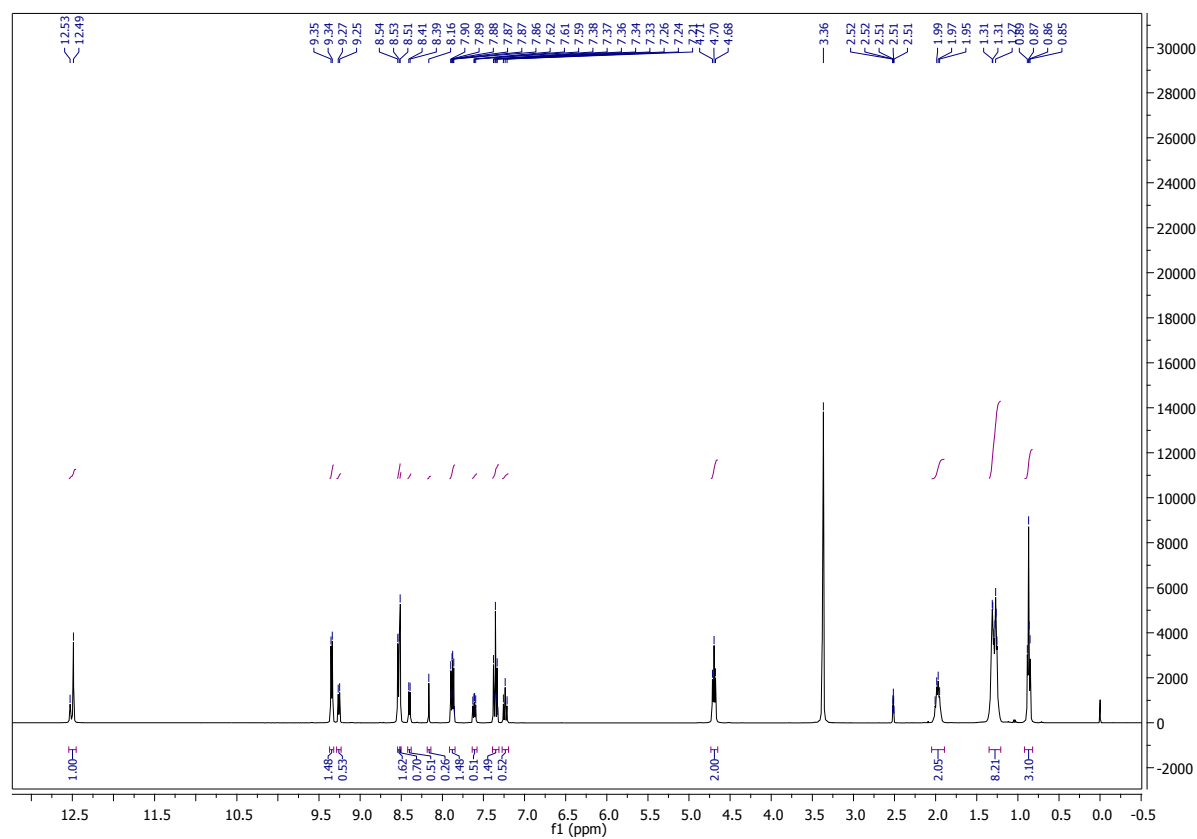
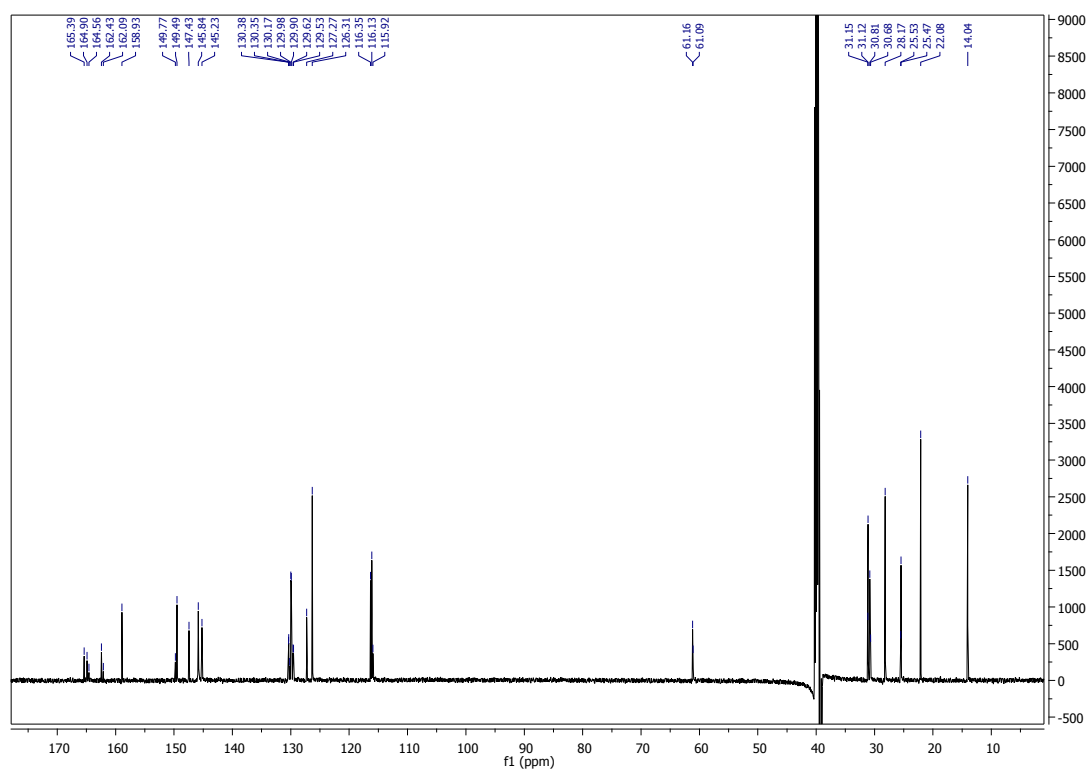
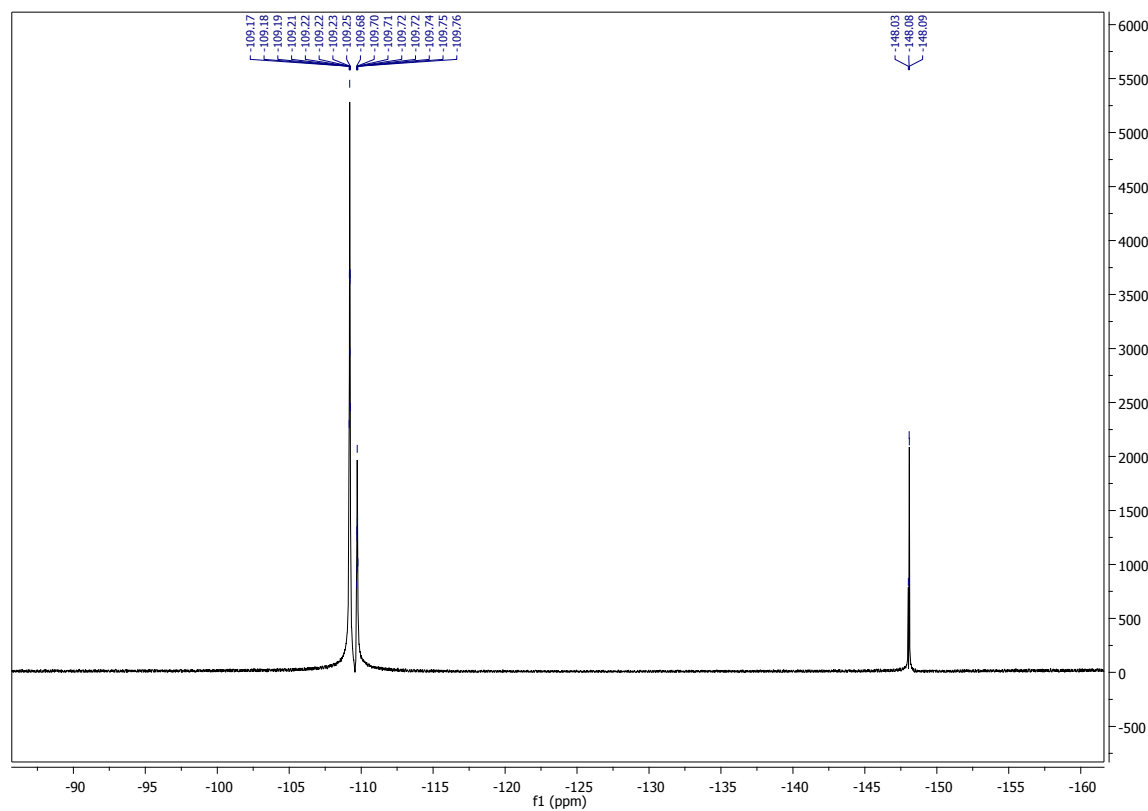
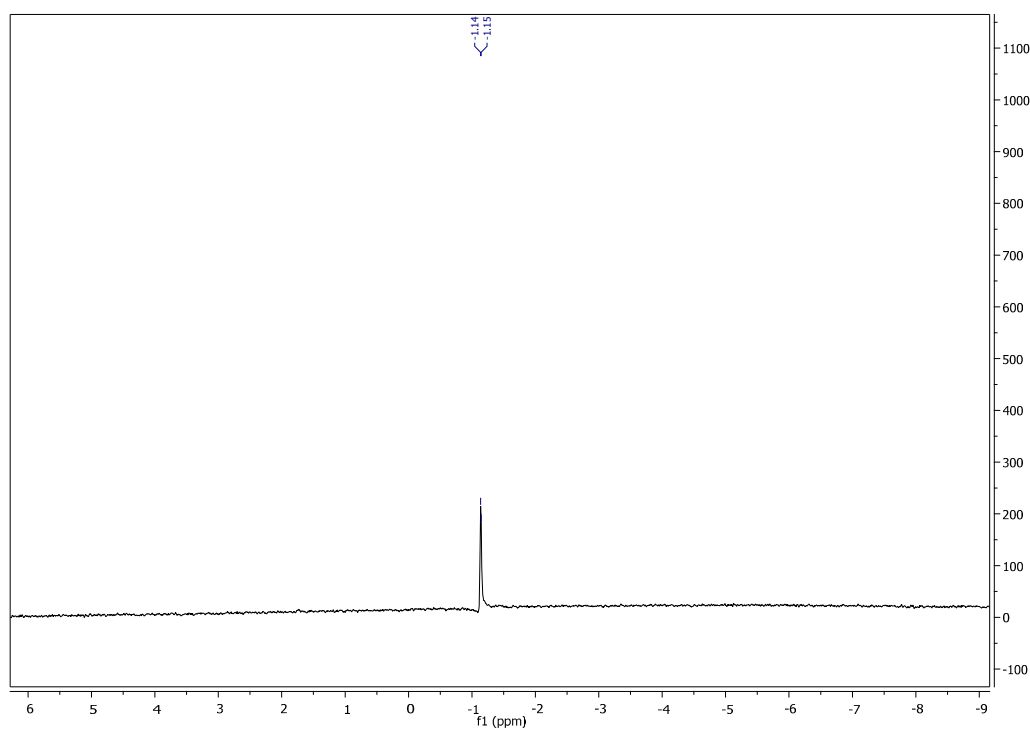


Figure S132. ¹H NMR of Compound 37.

Figure S133. ¹³C NMR of Compound 37.Figure S134. ¹⁹F NMR of Compound 37.

Figure S135. ^{11}B NMR of Compound 37.

salabti-en27 #307 RT: 5.15 AV: 1 SB: 80 2.80-3.56, 2.88-3.41 NL: 2.11E6
T: [0.0] +cBFullms[40.00-1000.00]

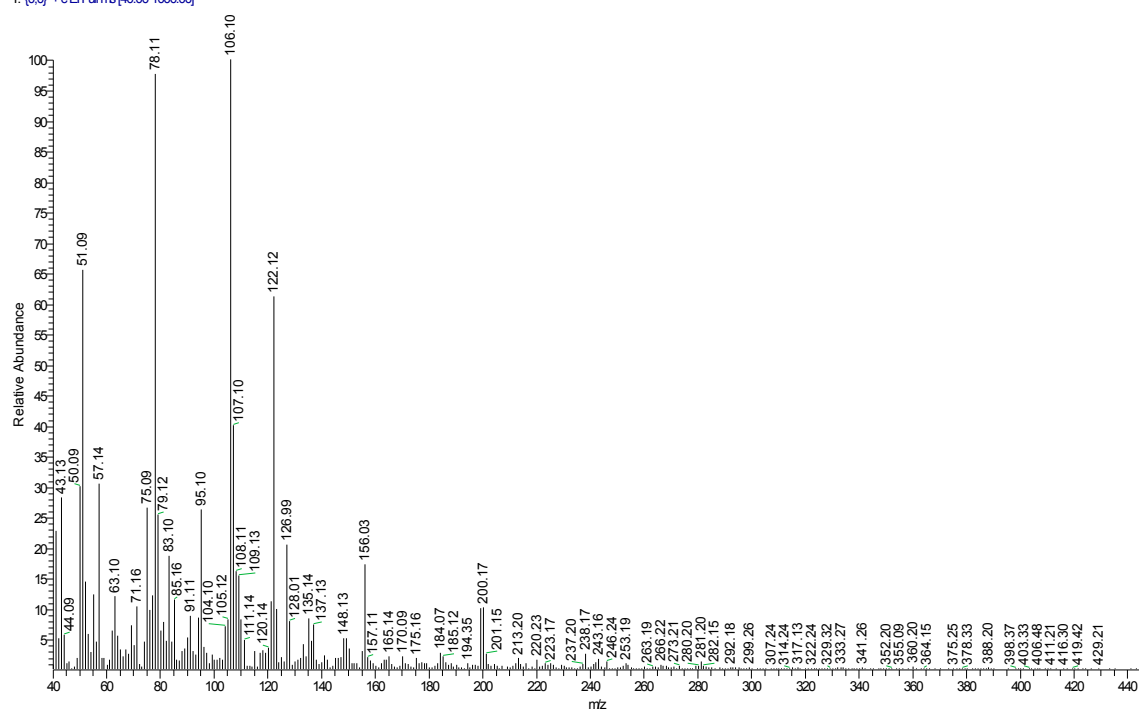


Figure S136. MS (ESI) of Compound 37.



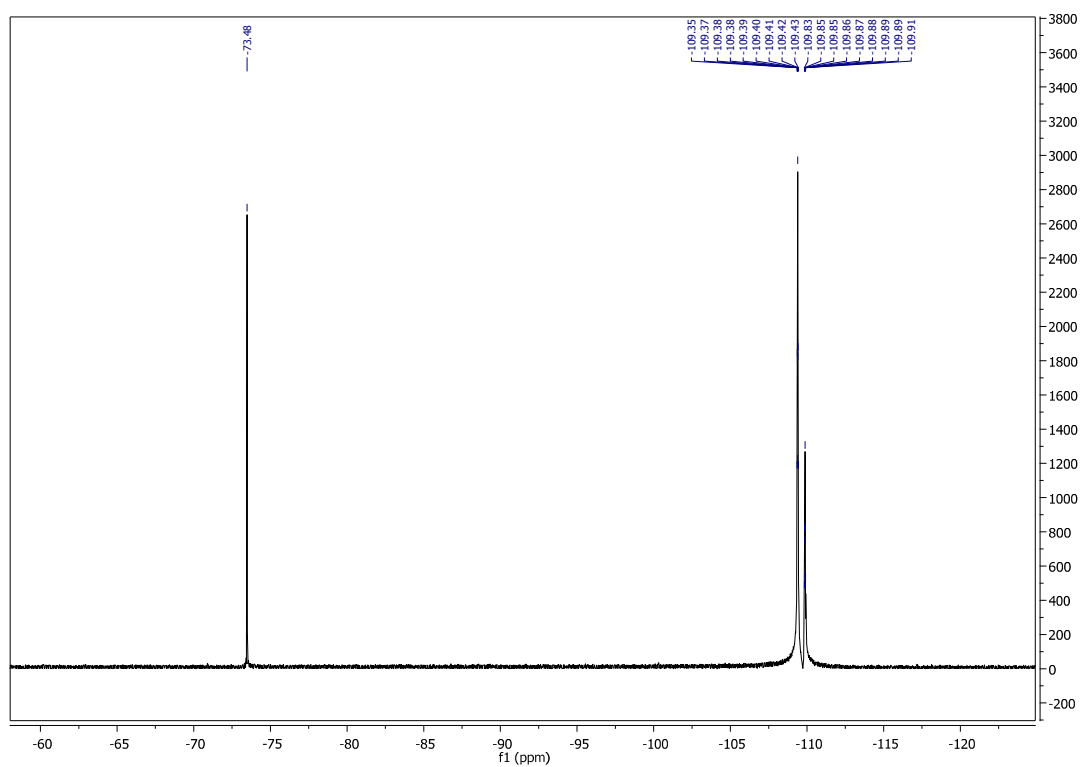
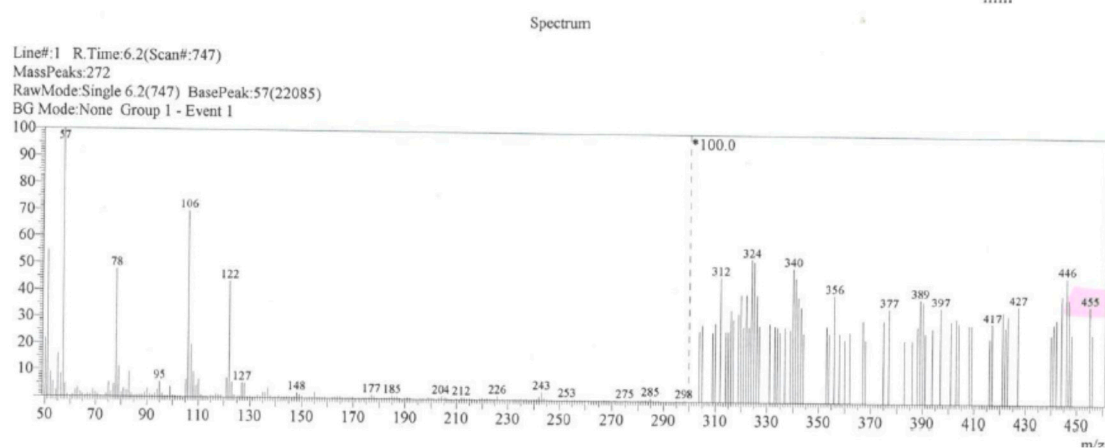
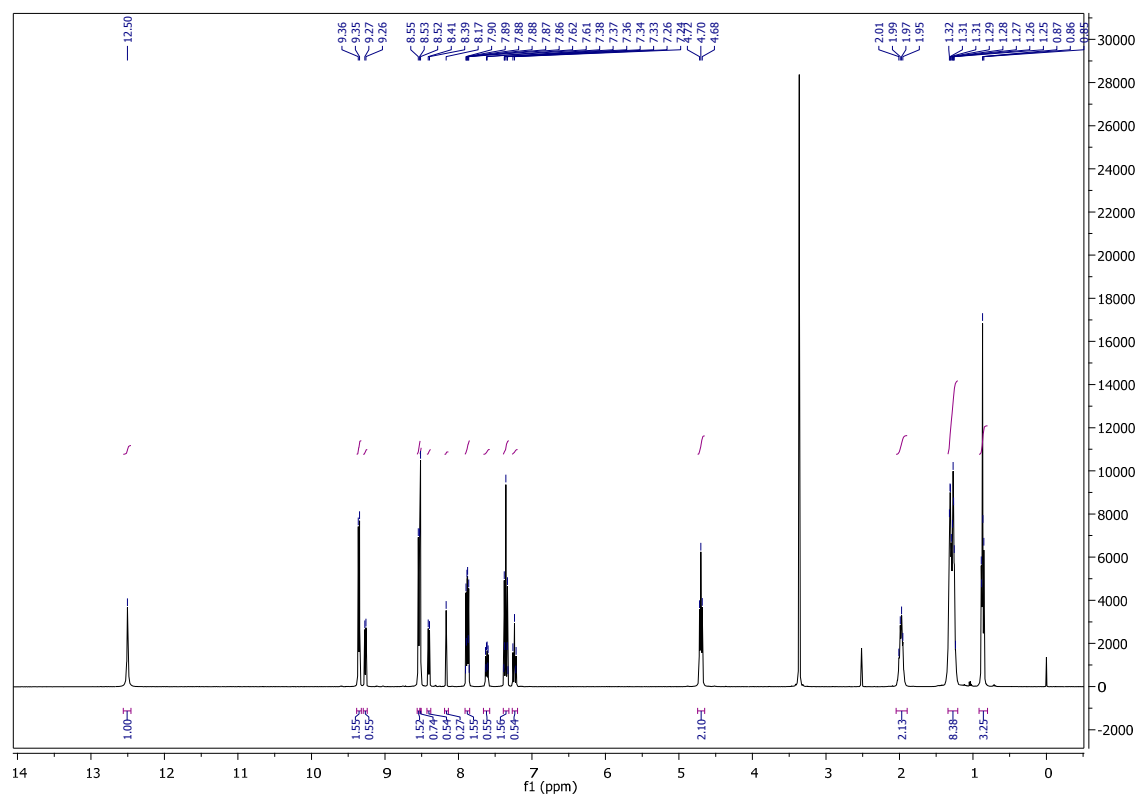
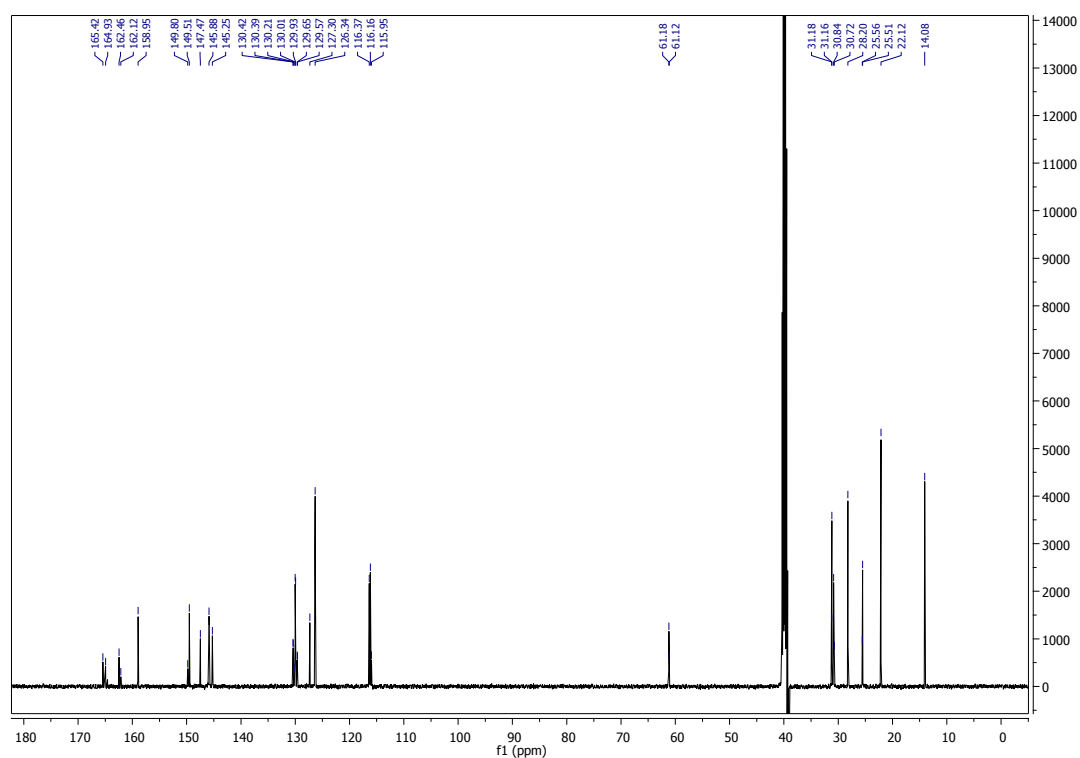
Figure S139. ^{19}F NMR of Compound 38.

Figure S140. MS (ESI) of Compound 38.

Figure S141. ¹H NMR of Compound 39.Figure S142. ¹³C NMR of Compound 39.

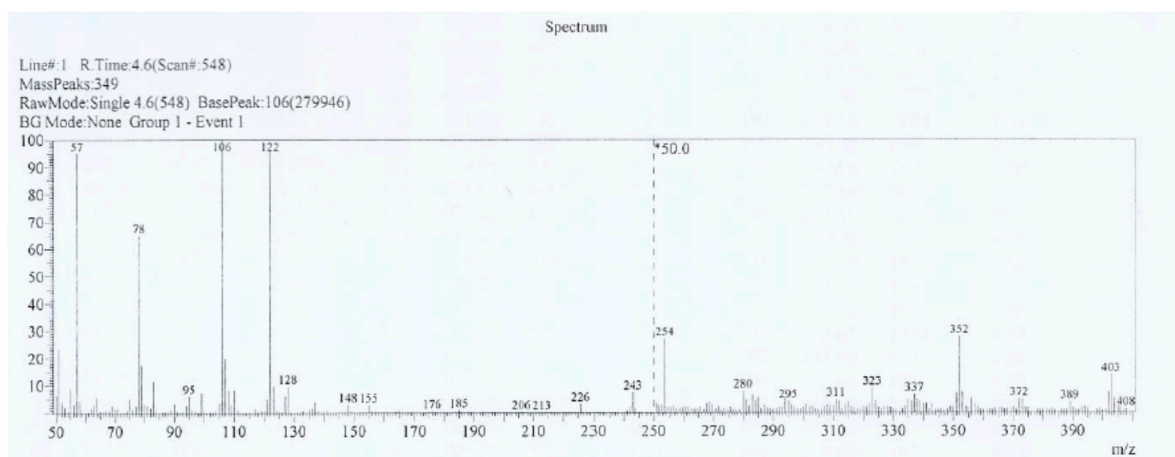
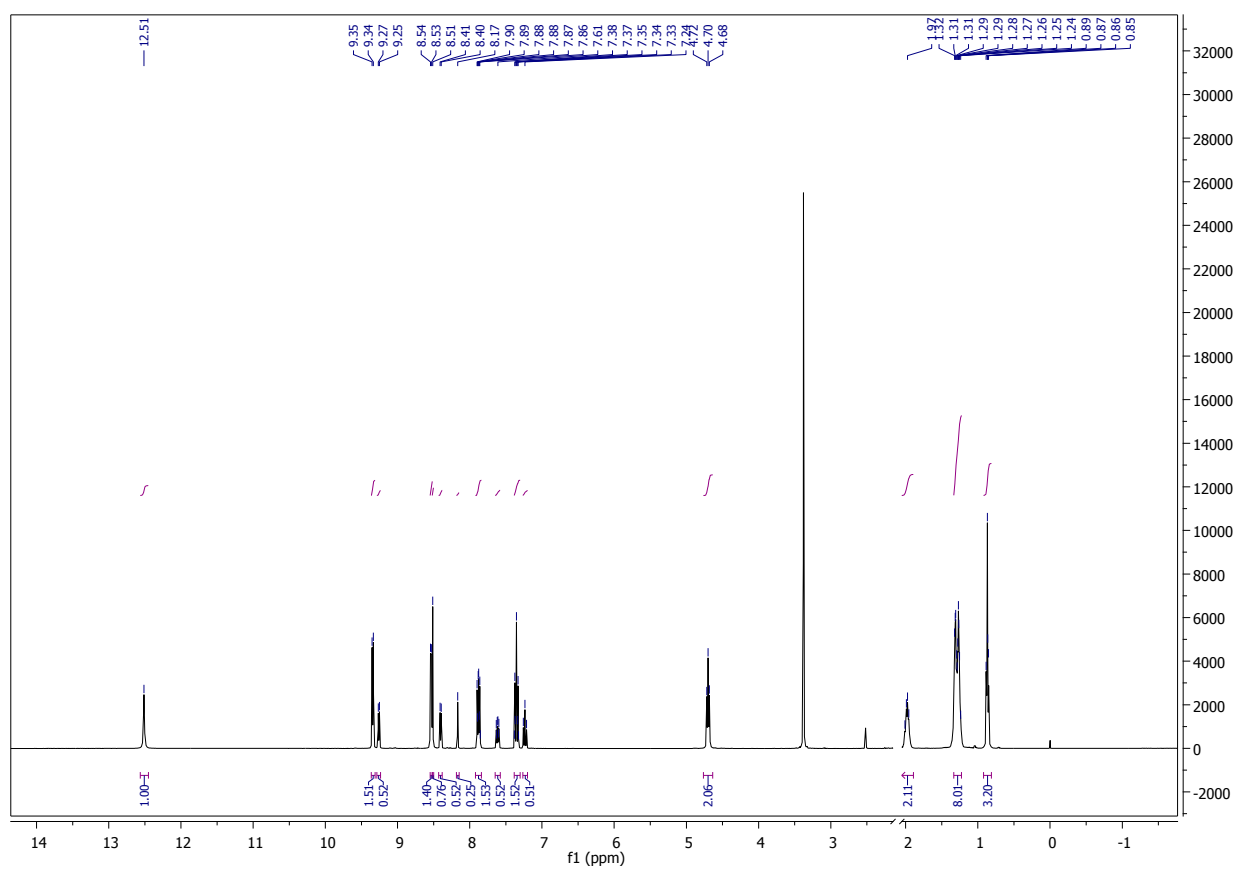


Figure S143. MS (ESI) of Compound 39.

Figure S144. ^1H NMR of Compound 40.

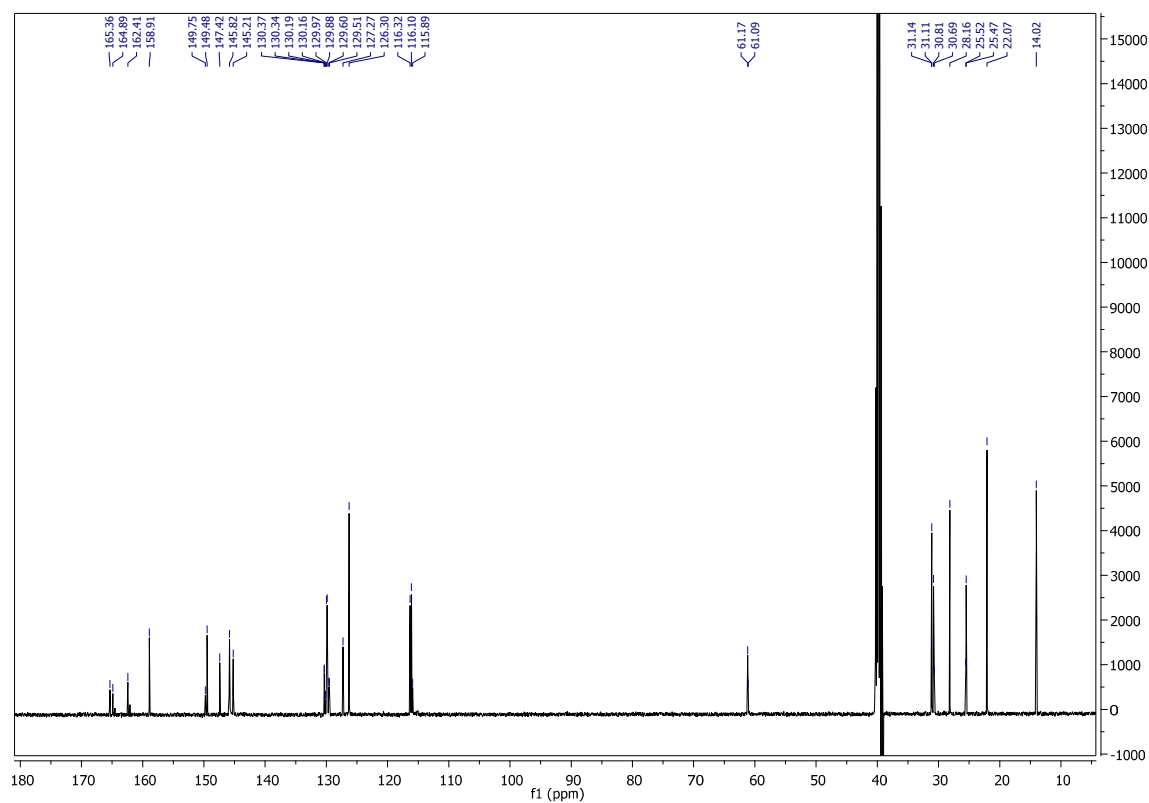
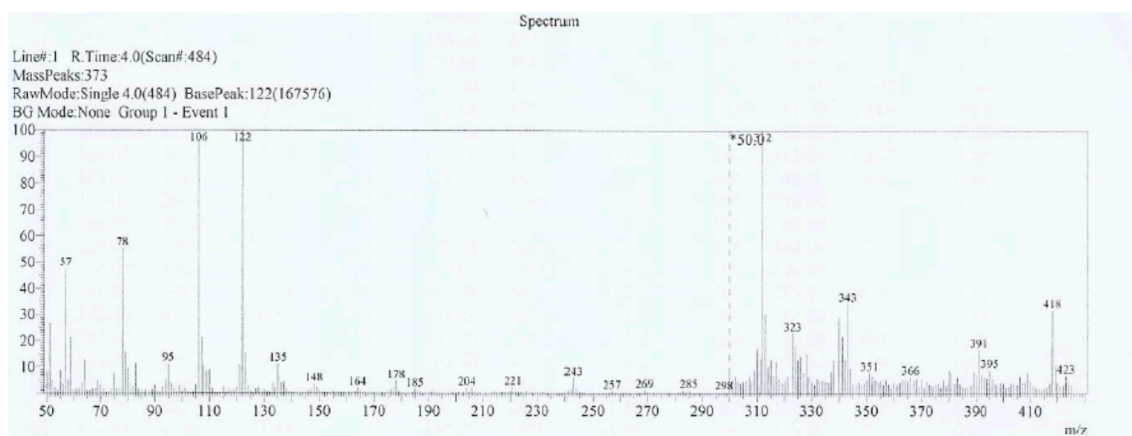
Figure S145. ¹³C NMR of Compound 40.

Figure S146. MS (ESI) of Compound 40.