

The acronyms L12-L15 in the formulae of complexes in ESI-MS represent the completely deprotonated form of the ligands (as L in the general formula of complexes in the *Potentiometric-spectrophotometric measurements* section), so, as an example, (L12)H₃ is the completely protonated ligand.

Figure S1. ESI-MS spectrum in positive mode for the L12 compound.

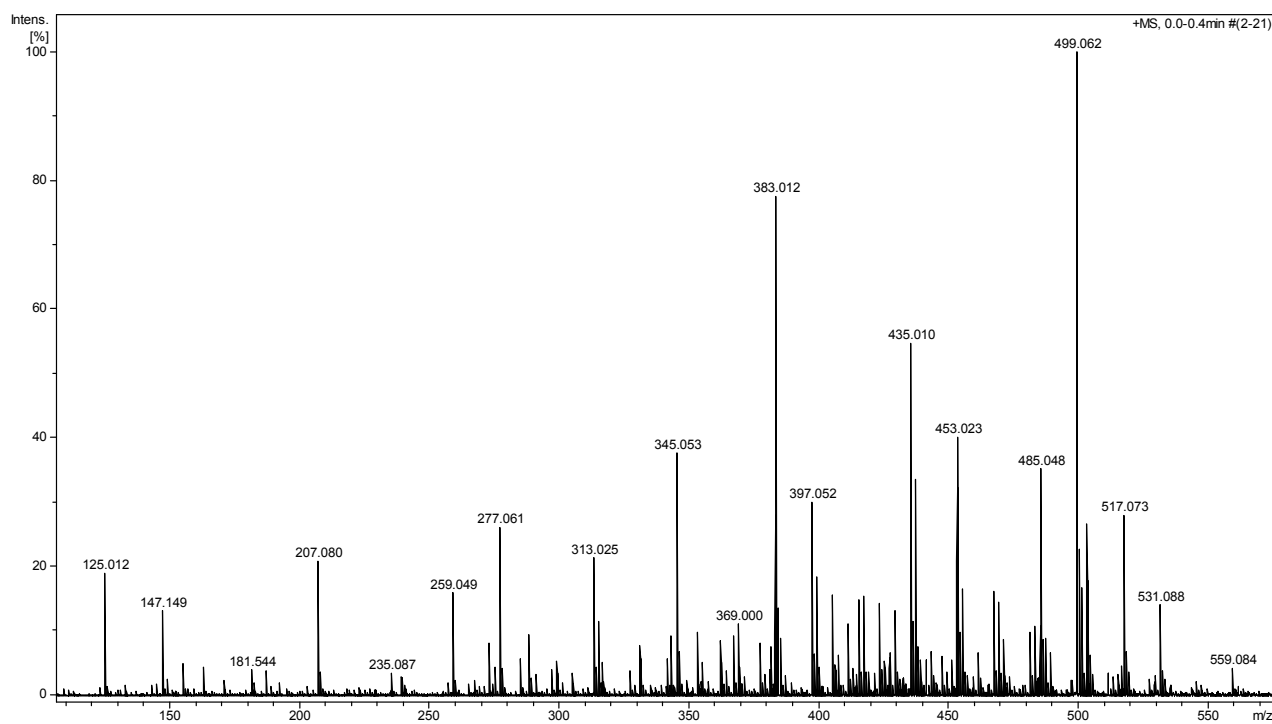


Figure S1A. Experimental data for the peaks $m/z = 435.010$ and 453.023 are shown at the top of the panel and compared with the data calculated for the $[(L12)H_3+H_2O+H]^+$ ($C_{20}H_{19}O_{11}$) and $[(L12)H_3+2H_2O+H]^+$ ($C_{20}H_{21}O_{12}$) (lower panels).

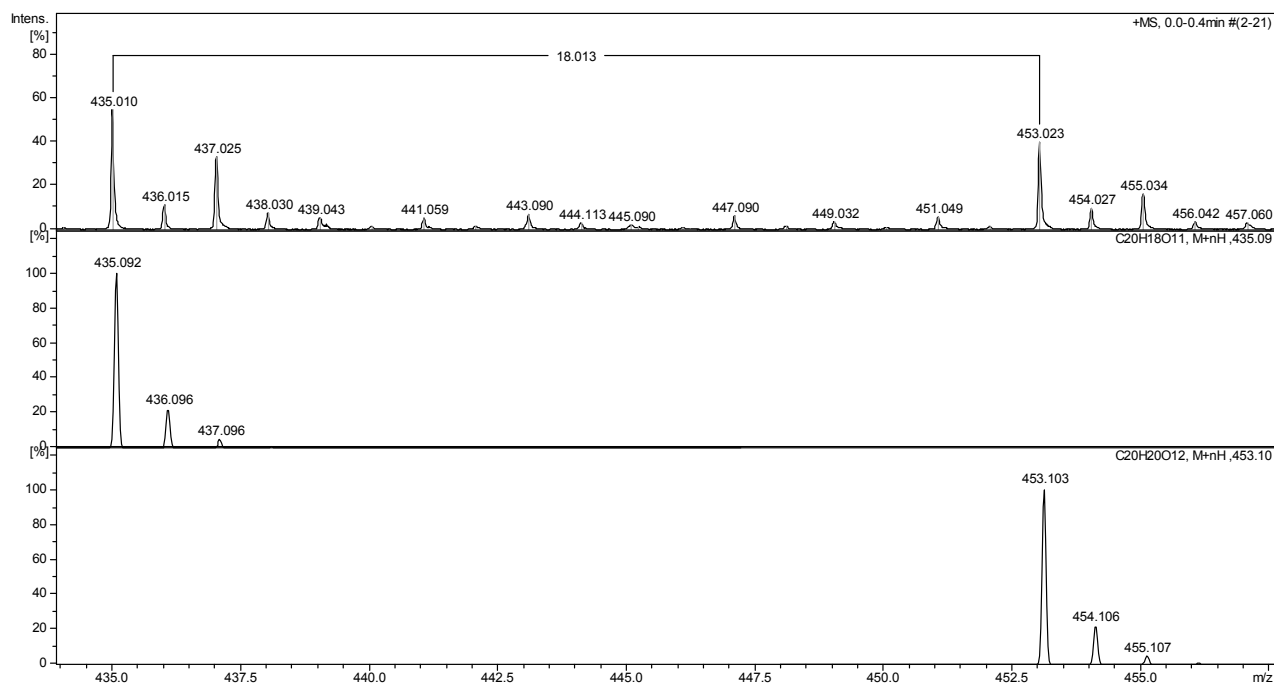


Figure S2. ESI-MS spectrum in negative mode for the L12 compound.

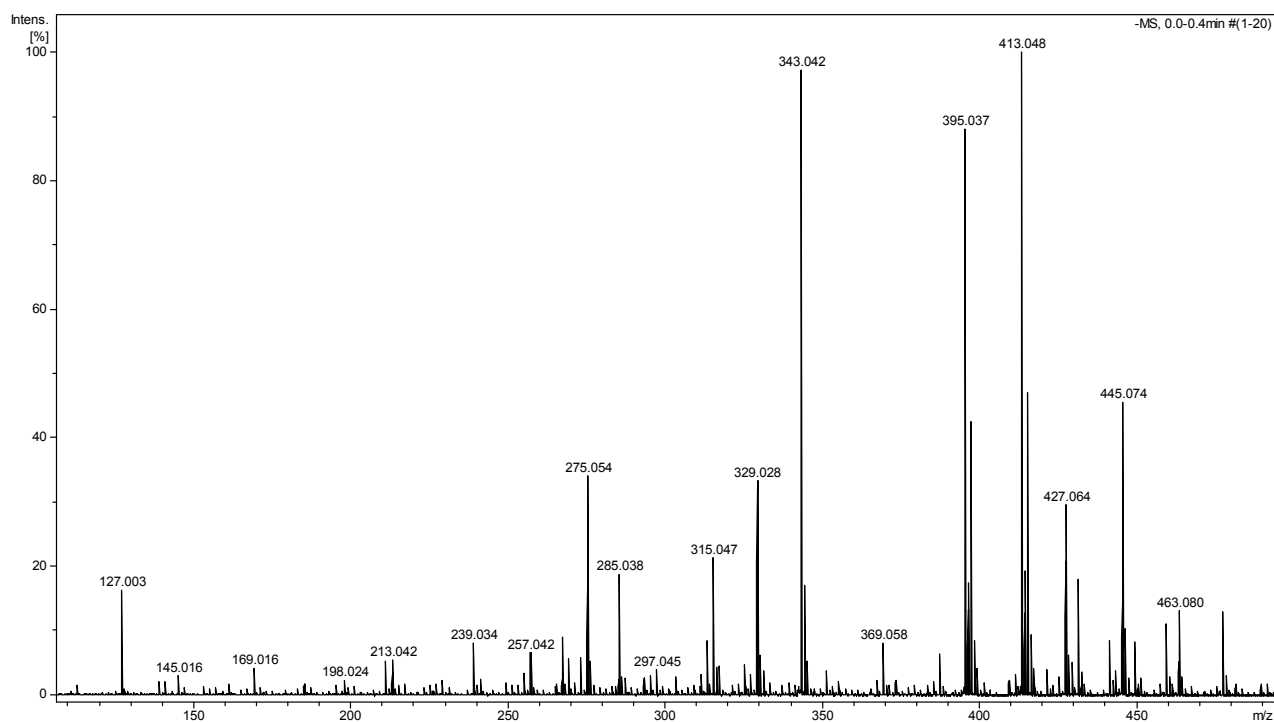


Figure S2A. Experimental data for the peaks $m/z = 413.048$ and 415.066 are shown at the top of the panel and compared with the data calculated for the $[(L12_{ox})]^-$ ($C_{20}H_{13}O_{10}$) and $[(L12)H_2]^-$ ($C_{20}H_{15}O_{10}$) (lower panels).

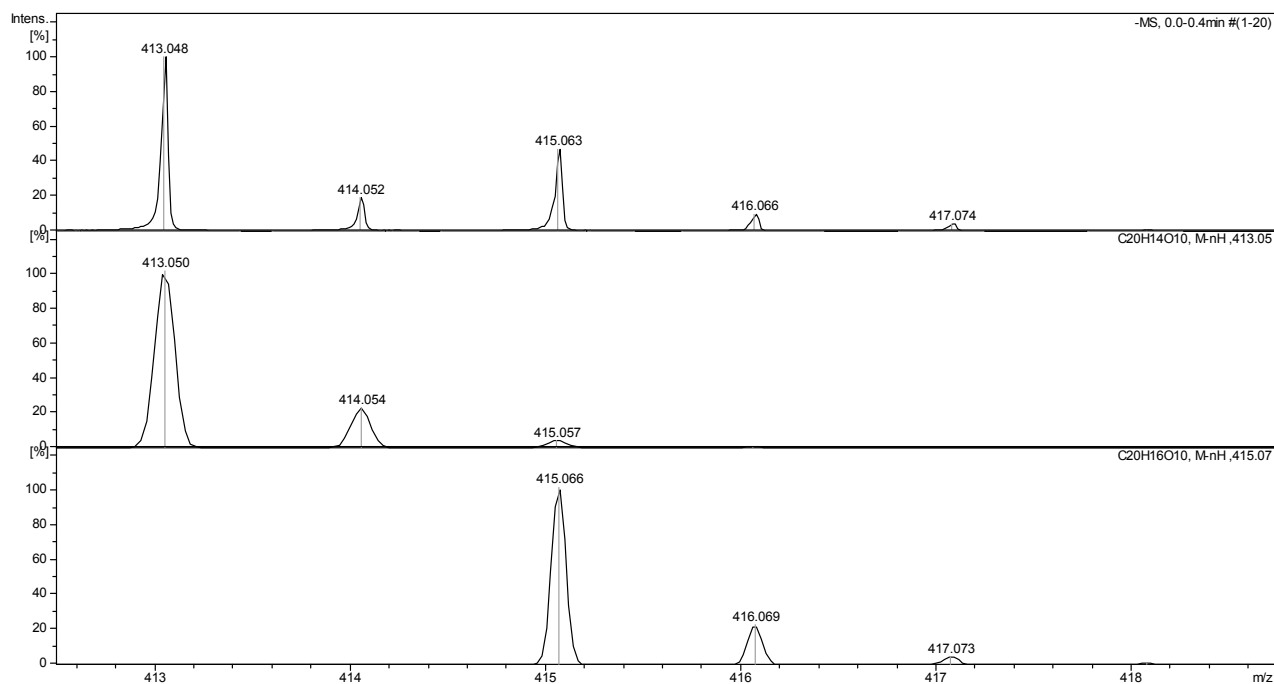


Figure S3. The full spectrum of L12-Al³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

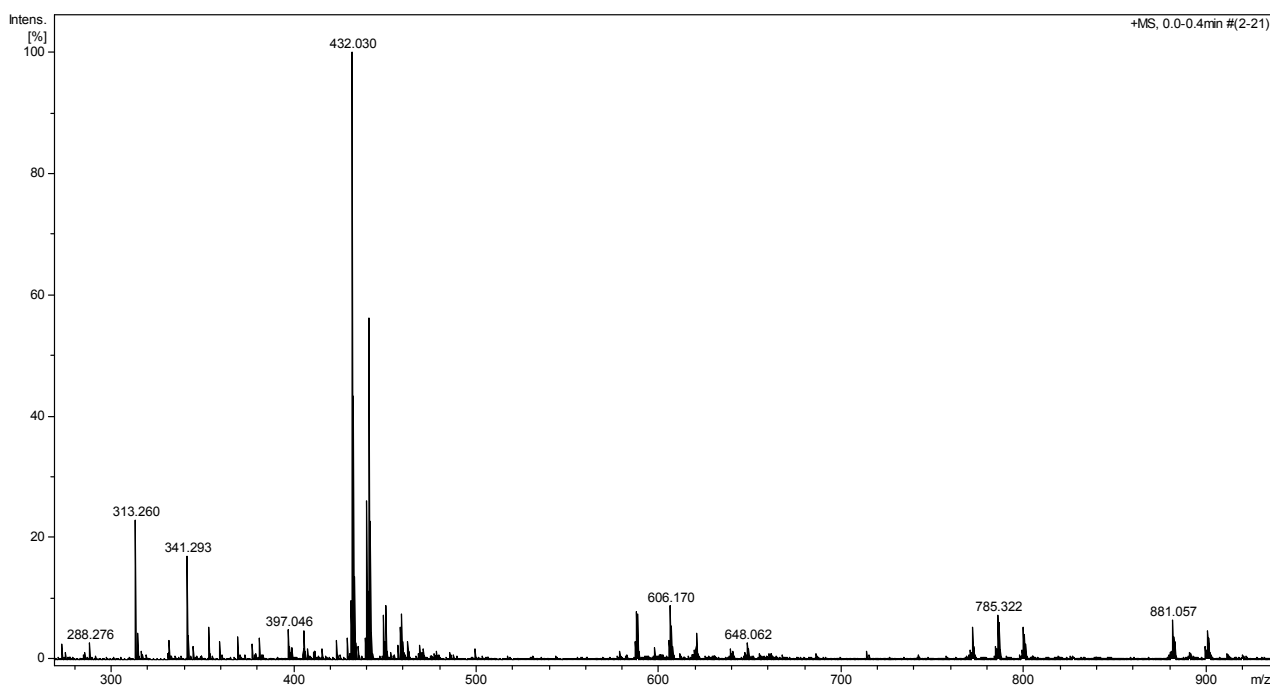


Figure S3A. Experimental data for the peaks m/z = 441.035, 450.041 and 459.045 are shown at the top of the panel and compared with the data calculated for the [Al₂(L12)₂H₂]²⁺ (C₄₀H₂₈Al₂O₂₀), [Al₂(L12)₂H₂+H₂O]²⁺ (C₄₀H₃₀Al₂O₂₁) and [Al₂(L12)₂H₂+2H₂O]²⁺ (C₄₀H₃₂Al₂O₂₂) complexes (lower panels).

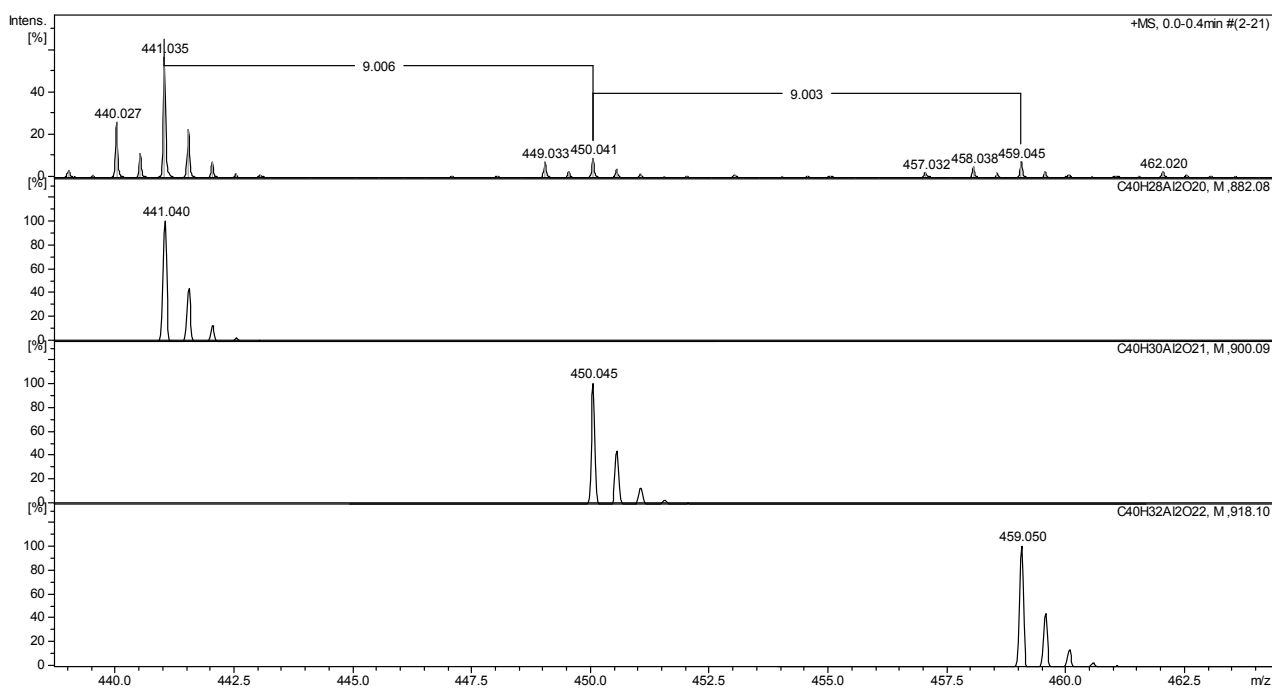


Figure S3B. Experimental data for the peaks $m/z = 440.027$, 449.033 and 458.038 are shown at the top of the panel and compared with the data calculated for the $[\text{Al}_2(\text{L12}_{\text{ox}})_2]^{2+}$ ($\text{C}_{40}\text{H}_{26}\text{Al}_2\text{O}_{20}$), $[\text{Al}_2(\text{L12}_{\text{ox}})_2+\text{H}_2\text{O}]^{2+}$ ($\text{C}_{40}\text{H}_{28}\text{Al}_2\text{O}_{21}$) and $[\text{Al}_2(\text{L12}_{\text{ox}})_2+2\text{H}_2\text{O}]^{2+}$ ($\text{C}_{40}\text{H}_{30}\text{Al}_2\text{O}_{22}$) complexes (lower panels).

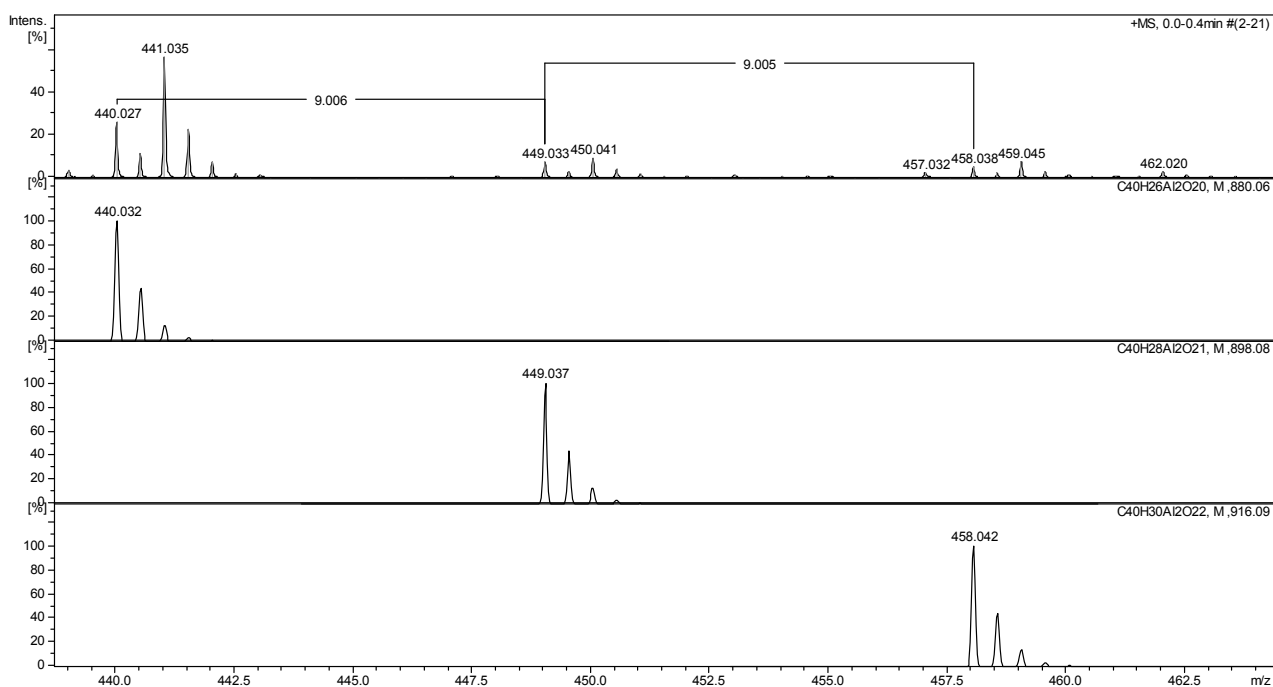


Figure S4. The full spectrum of L12-Al³⁺ solution in the 1:1 metal-to-ligand molar ratio in negative mode.

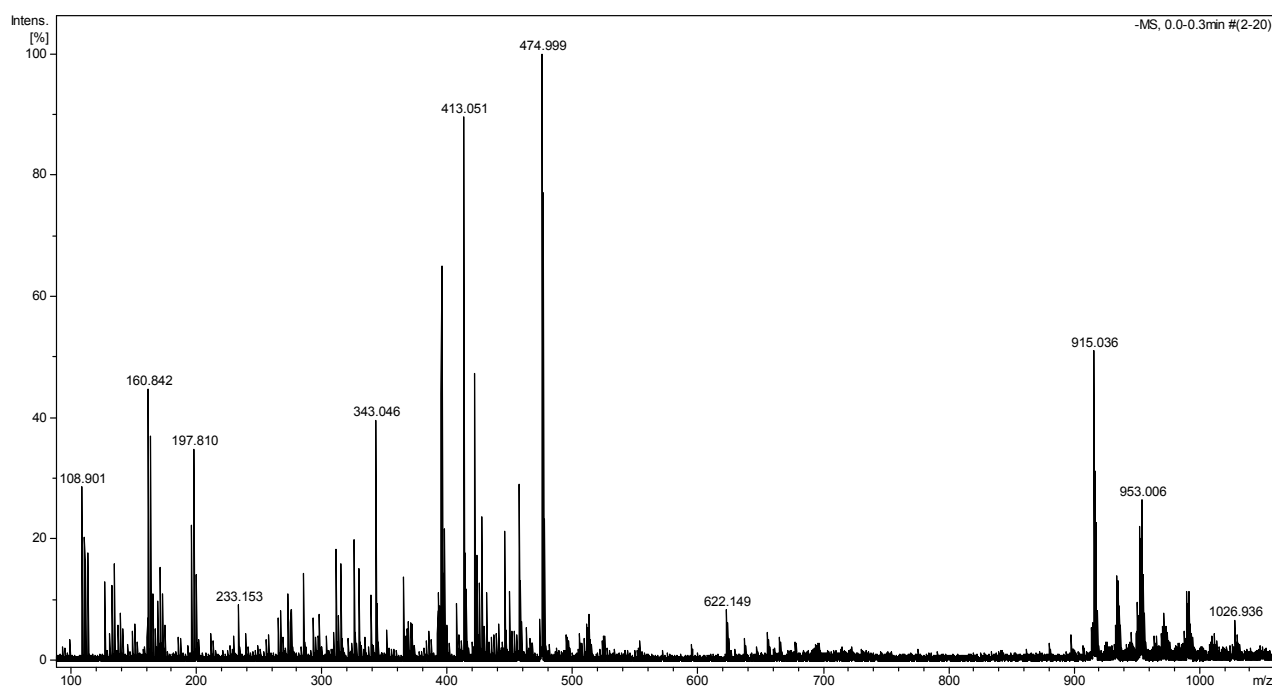


Figure S4A. Experimental data for the peak m/z = 474.999 is shown at the top of the panel and compared with the data calculated for the [Al₂(L12)₂+2Cl]²⁻ (C₄₀H₂₆Al₂Cl₂O₂₀) complex (lower panel).

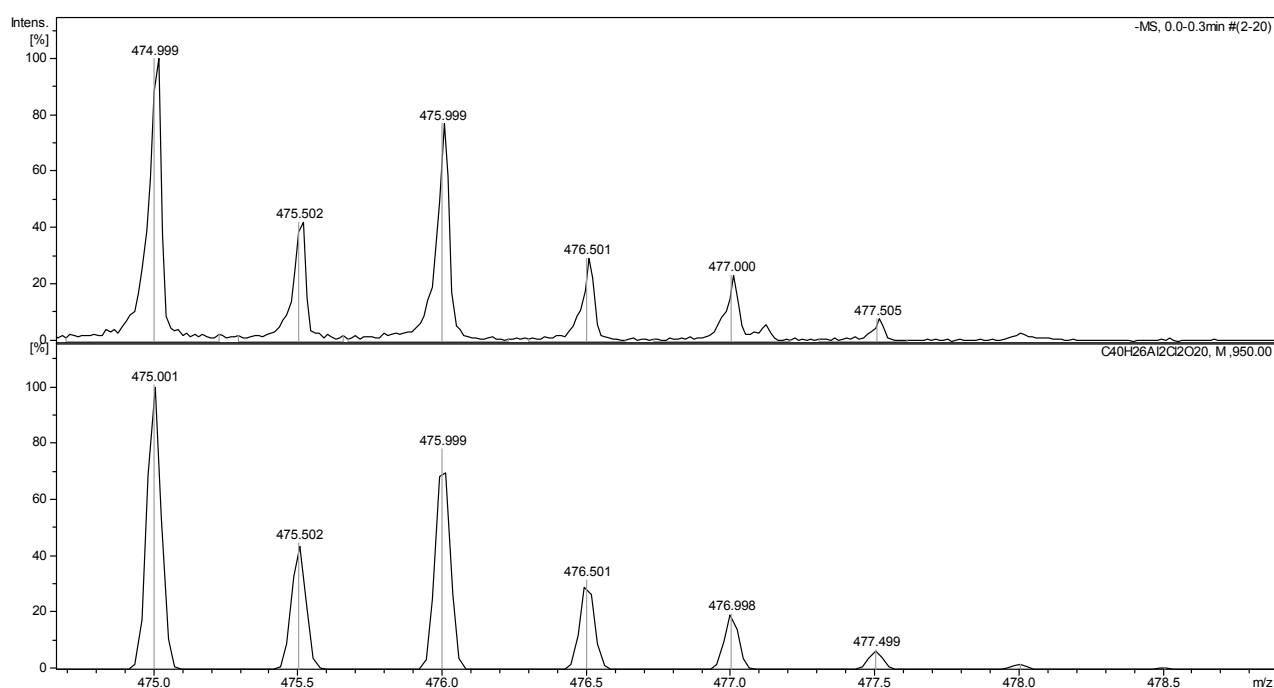


Figure S4B. Experimental data for the peaks $m/z = 915.036$, 933.022 and 951.009 are shown at the top of the panel and compared with the data calculated for the $[\text{Al}_4(\text{L12})_4+2\text{Cl}]^{2-}(\text{C}_{80}\text{H}_{52}\text{Al}_4\text{Cl}_2\text{O}_{40})$, $[\text{Al}_4(\text{L12})_4+2\text{Cl}+2\text{H}_2\text{O}]^{2-}(\text{C}_{80}\text{H}_{56}\text{Al}_4\text{Cl}_2\text{O}_{42})$ and $[\text{Al}_4(\text{L12})_4+2\text{Cl}+4\text{H}_2\text{O}]^{2-}(\text{C}_{80}\text{H}_{60}\text{Al}_4\text{Cl}_2\text{O}_{44})$ complexes (lower panel).

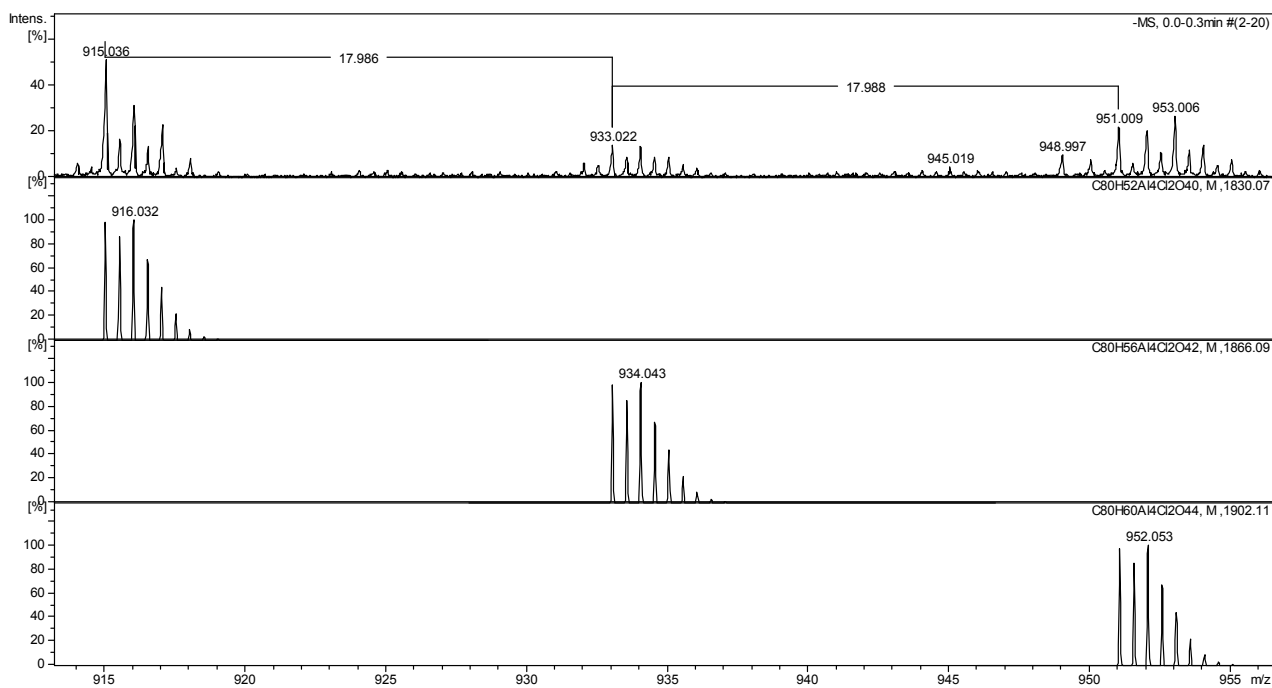


Figure S5. The full spectrum of L12-Cu²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

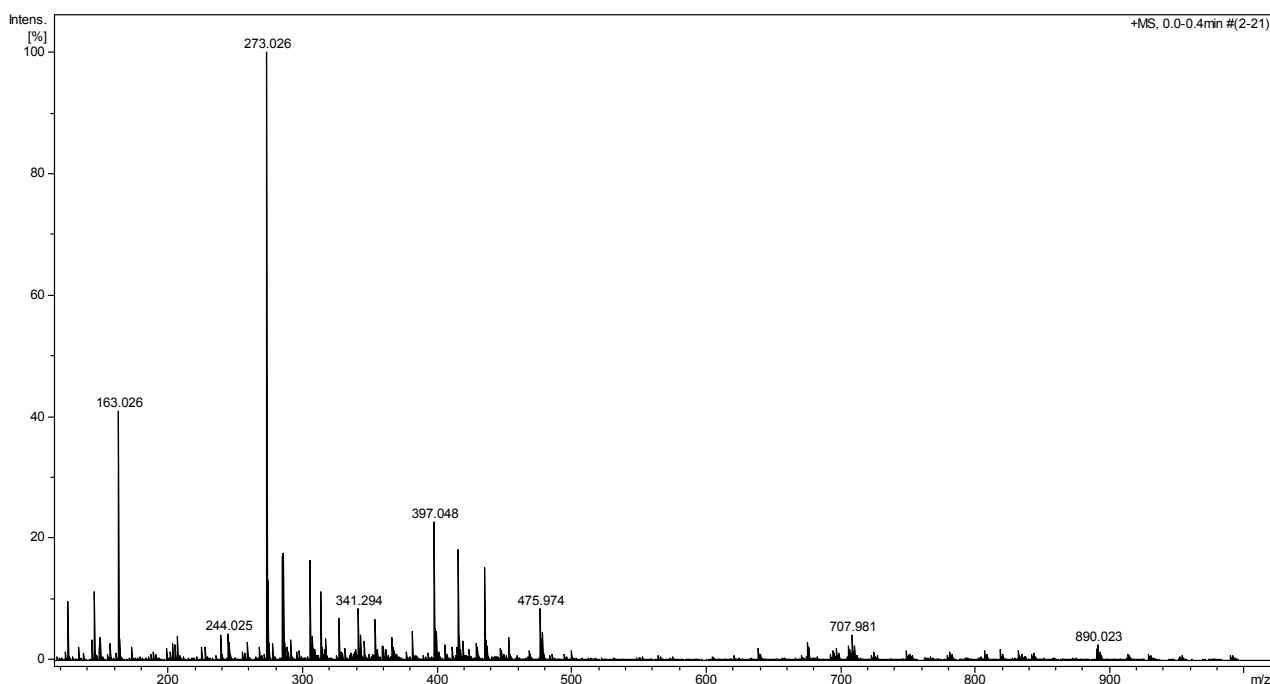


Figure S5A. Experimental data for the peaks m/z = 475.974 and 493.980 are shown at the top of the panel and compared with the data calculated for the [Cu(L12_{ox})]⁺ (C₂₀H₁₃CuO₁₀), [Cu₂(L12_{ox})₂]²⁺ (C₄₀H₂₆Cu₂O₂₀) and [Cu(L12_{ox})+H₂O]⁺ (C₂₀H₁₅CuO₁₁) complexes (lower panels).

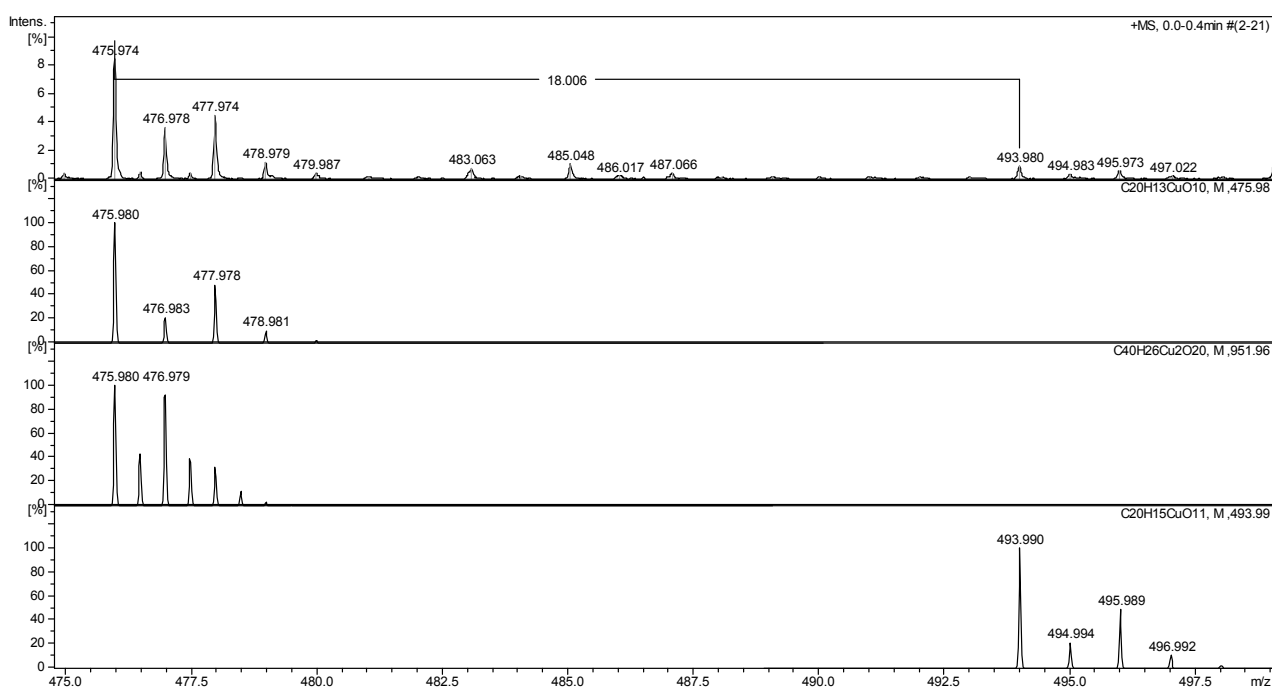


Figure S6. The full spectrum of L12- Fe^{3+} solution in the 1:1 metal-to-ligand molar ratio in positive mode.

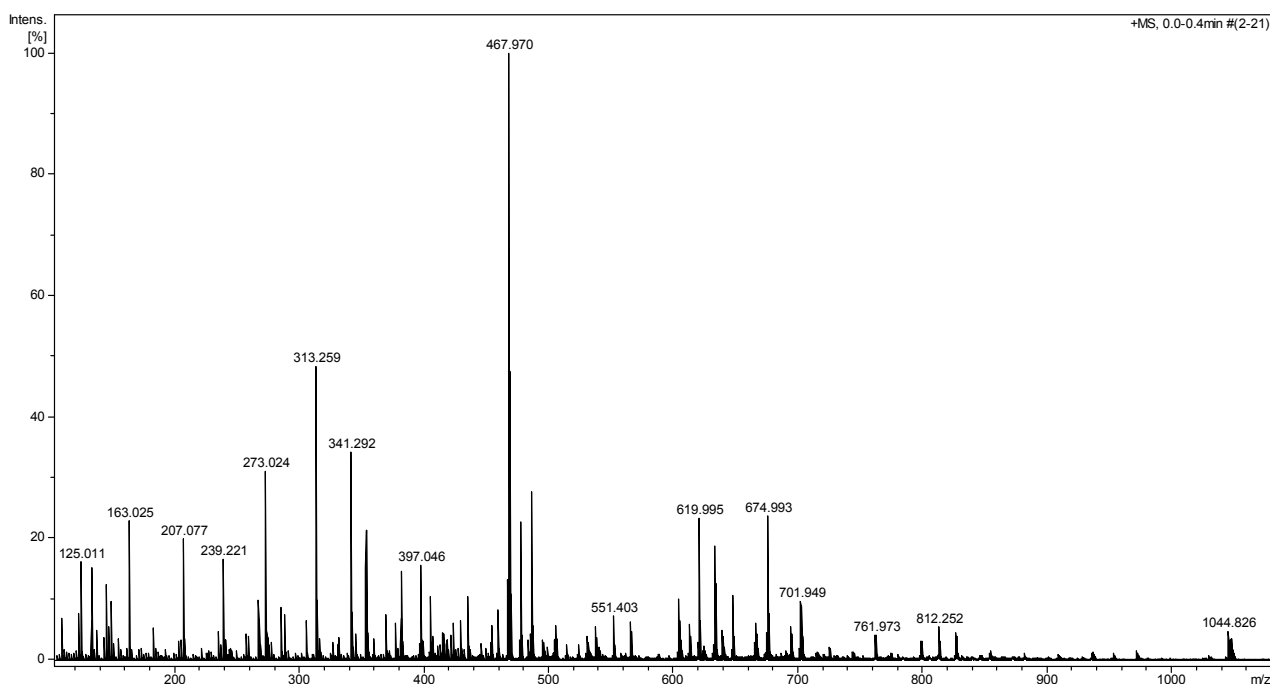


Figure S6A. Experimental data for the peaks $m/z = 466.973$, 475.976 , 484.991 and 493.980 are shown at the top of the panel and compared with the data calculated for the $[\text{Fe}_2(\text{L12}_{\text{ox}})_2]^{2+}$ ($\text{C}_{40}\text{H}_{24}\text{Fe}_2\text{O}_{20}$), $[\text{Fe}_2(\text{L12}_{\text{ox}})_2 + \text{H}_2\text{O}]^{2+}$ ($\text{C}_{40}\text{H}_{26}\text{Fe}_2\text{O}_{21}$), $[\text{Fe}_2(\text{L12}_{\text{ox}})_2 + 2\text{H}_2\text{O}]^{2+}$ ($\text{C}_{40}\text{H}_{28}\text{Fe}_2\text{O}_{22}$) and $[\text{Fe}_2(\text{L12}_{\text{ox}})_2 + 3\text{H}_2\text{O}]^{2+}$ ($\text{C}_{40}\text{H}_{30}\text{Fe}_2\text{O}_{23}$) complexes (lower panels).

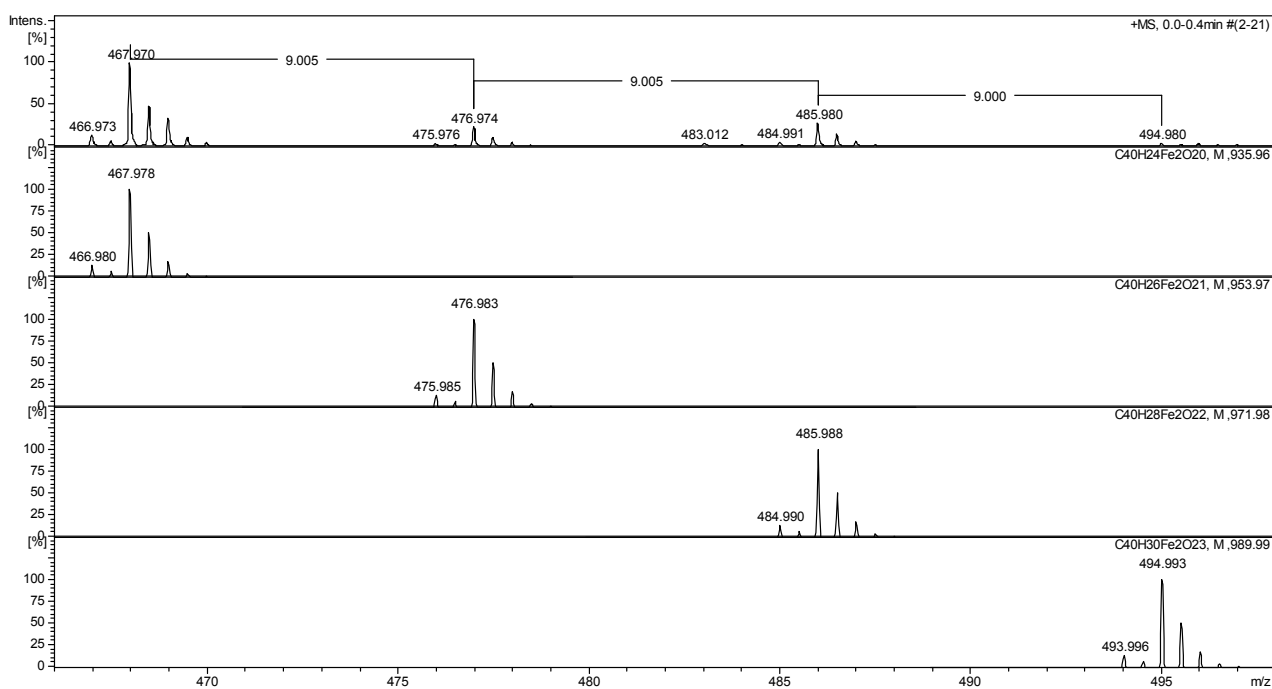


Figure S7. The full spectrum of L12- Fe^{3+} solution in the 1:1 metal-to-ligand molar ratio in negative mode.

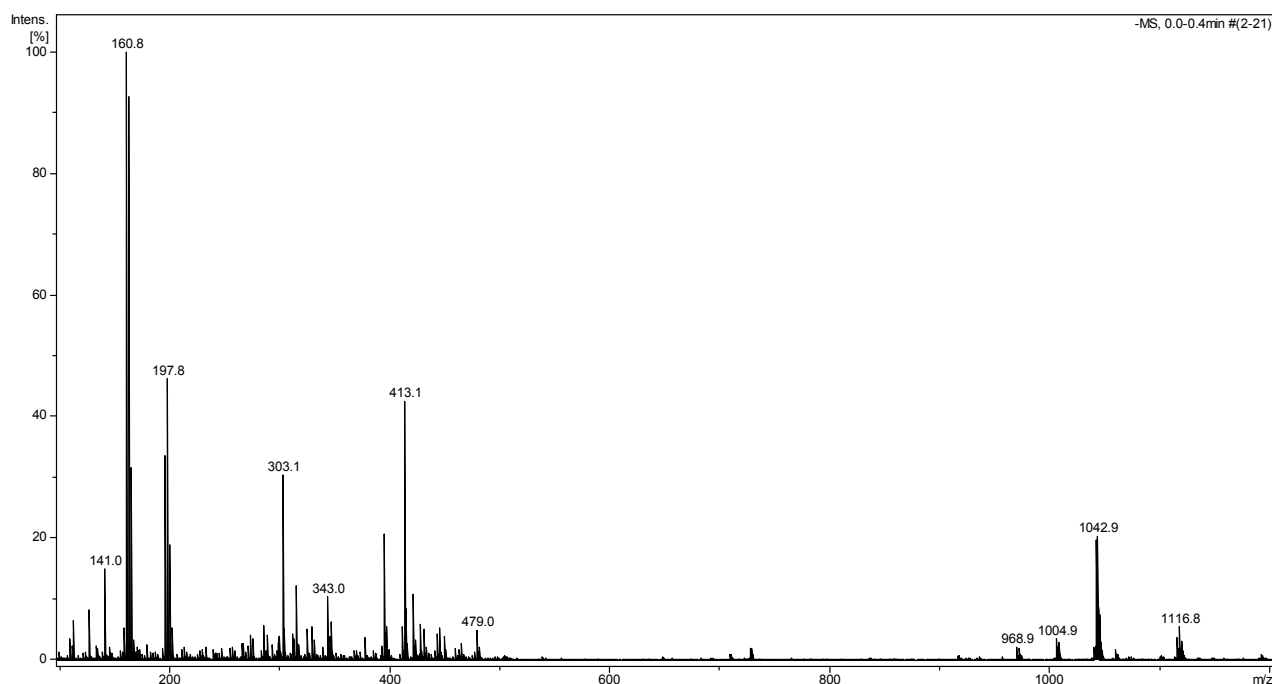


Figure S7A. Experimental data for the peak $m/z = 1040.870$ are shown at the top of the panel and compared with the data calculated for the $[\text{Fe}_2(\text{L12}_{\text{ox}})_2 + 3\text{Cl}]^-$ ($\text{C}_{40}\text{H}_{24}\text{Cl}_3\text{Fe}_2\text{O}_{20}$) complex (lower panel).

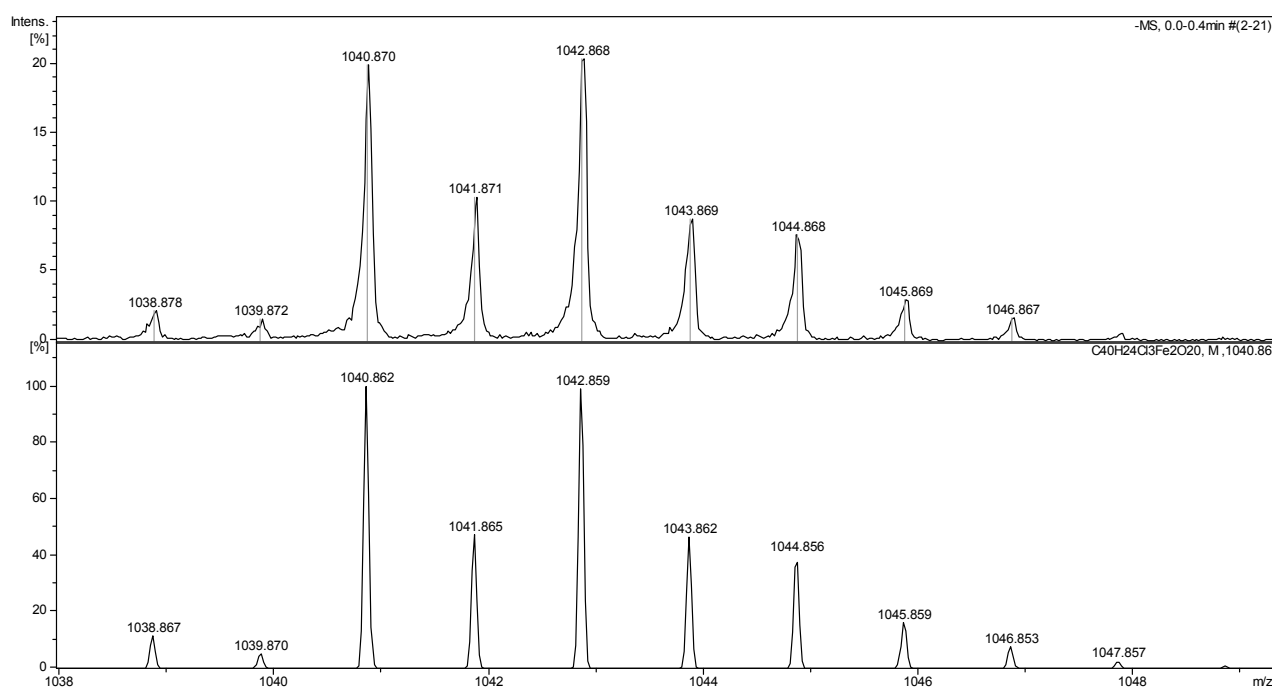


Figure S8. The full spectrum of L12-Zn²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

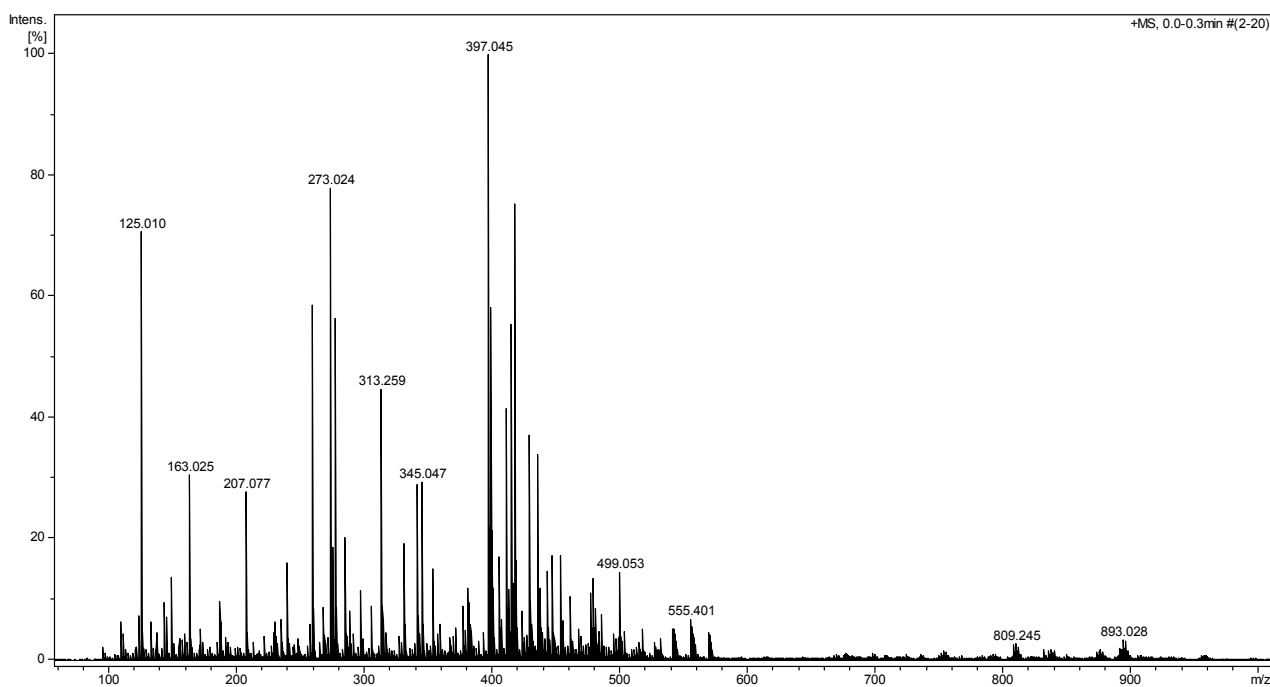


Figure S8A. Experimental data for the peaks m/z = 476.972 and 478.979 are shown at the top of the panel and compared with the data calculated for the [Zn(L12_{ox})]⁺ (C₂₀H₁₃ZnO₁₀) and [Zn(L12)H₂]⁺ (C₂₀H₁₅ZnO₁₀) complexes (lower panels).

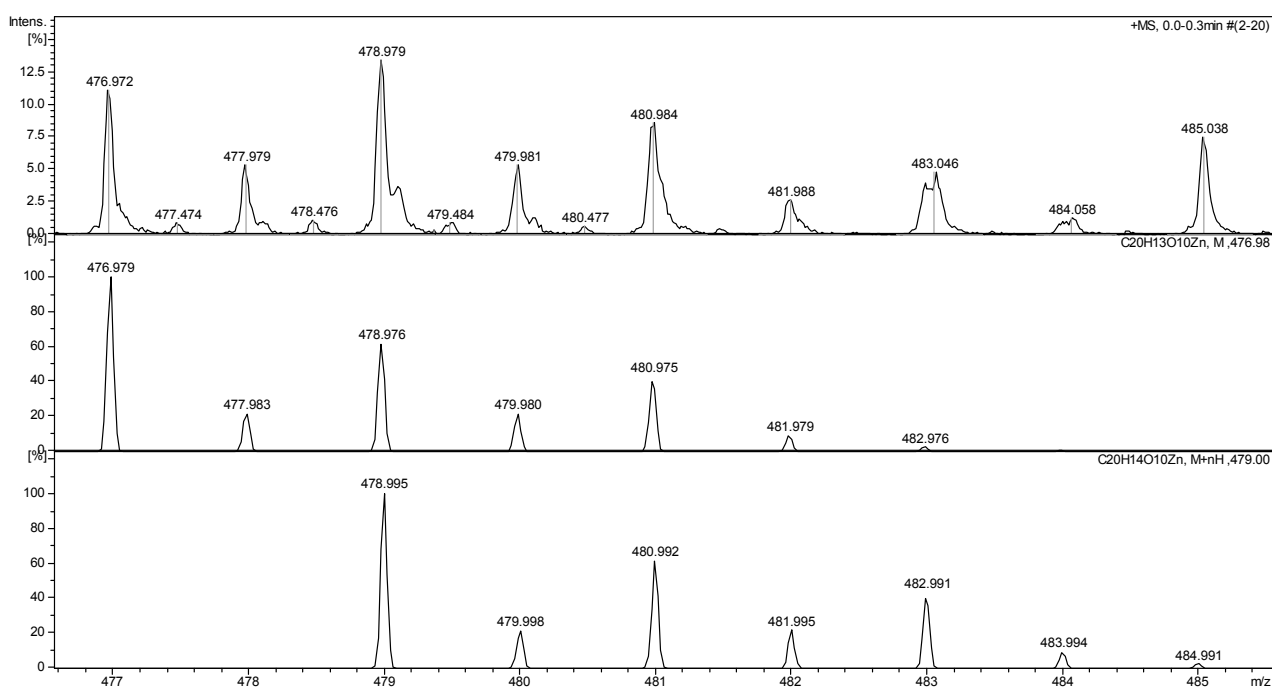


Figure S9. The full spectrum of L12- Zn^{2+} solution in the 1:1 metal-to-ligand molar ratio in negative mode.

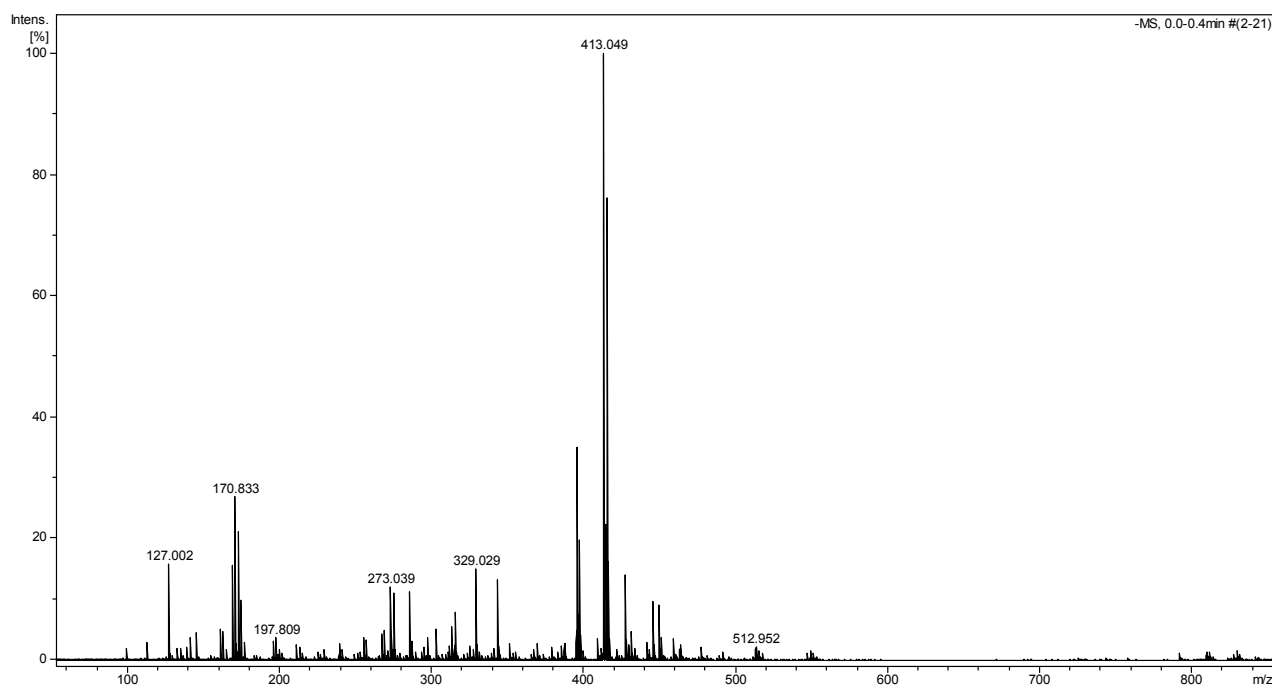


Figure S9A. Experimental data for the peak $m/z = 477.096$ are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L12})]^-$ ($\text{C}_{20}\text{H}_{13}\text{ZnO}_{10}$) complex (lower panel).

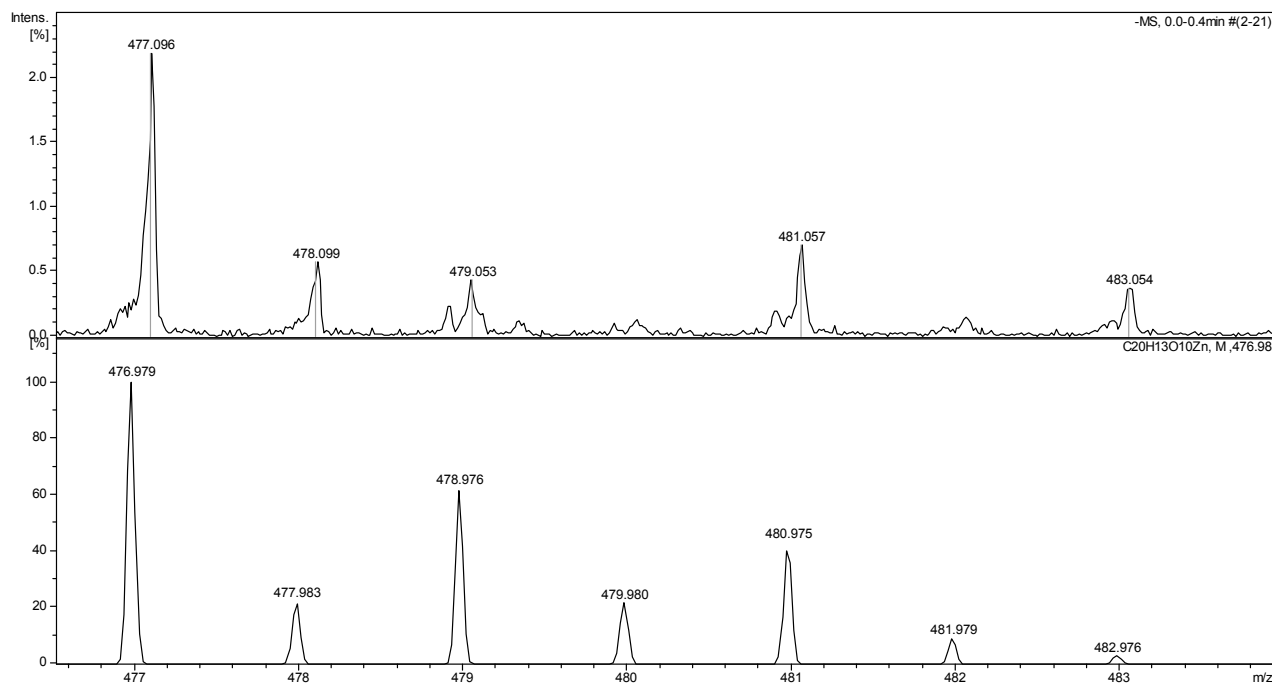


Figure S9B. Experimental data for the peak $m/z = 512.952$ are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L12})\text{H}+\text{Cl}]^-$ ($\text{C}_{20}\text{H}_{14}\text{ZnClO}_{10}$) complex (lower panel).

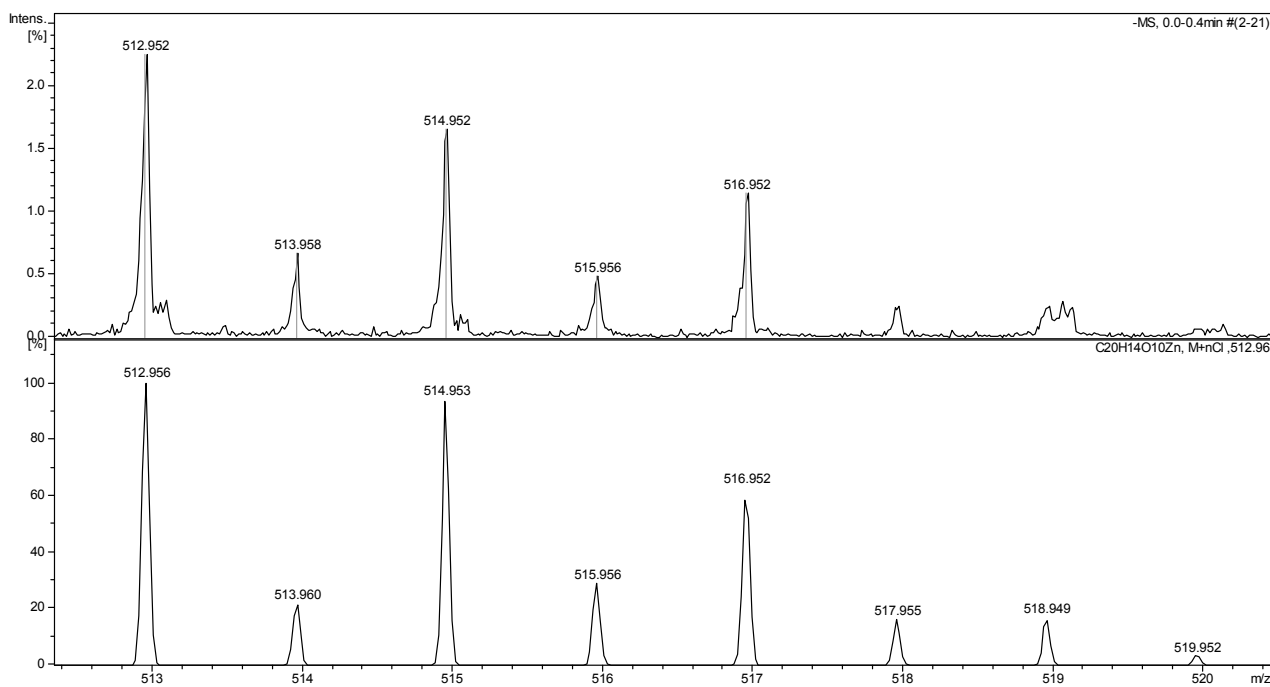


Figure S9C. Experimental data for the peak $m/z = 548.921$ are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L12})\text{H}_2+2\text{Cl}]^-$ ($\text{C}_{20}\text{H}_{15}\text{ZnCl}_2\text{O}_{10}$) complex (lower panel).

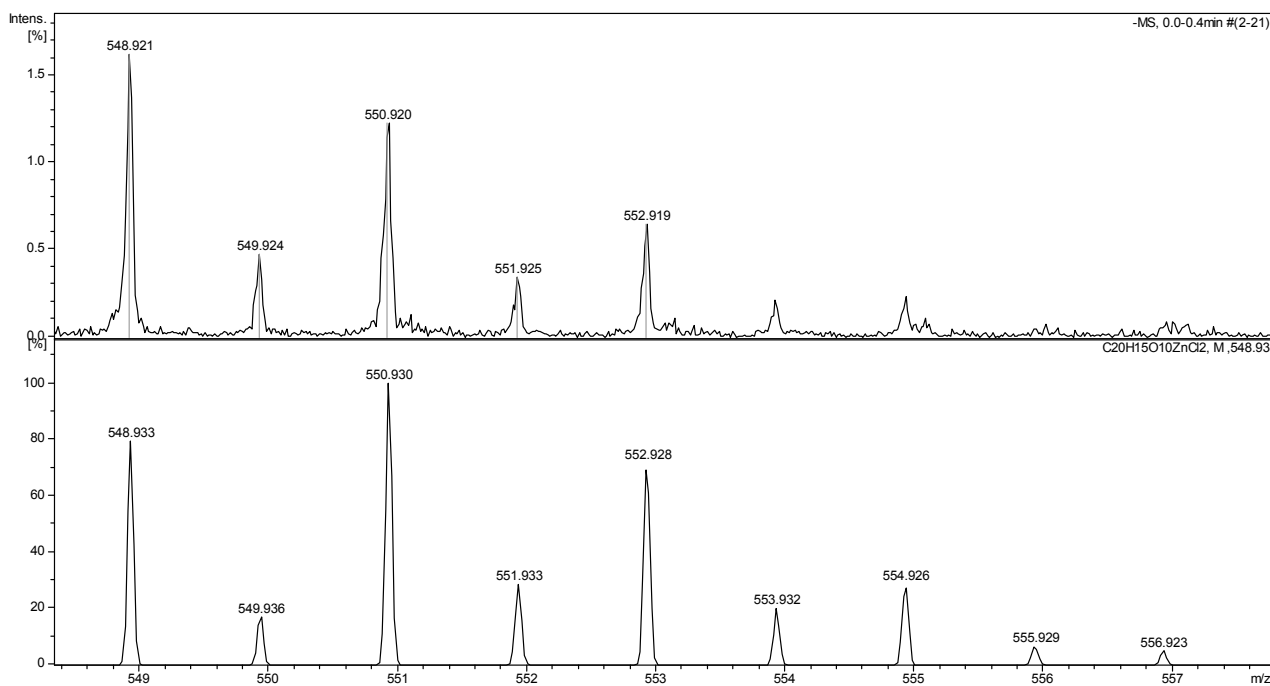


Figure S10. ESI-MS spectrum in positive mode for the L13 compound.

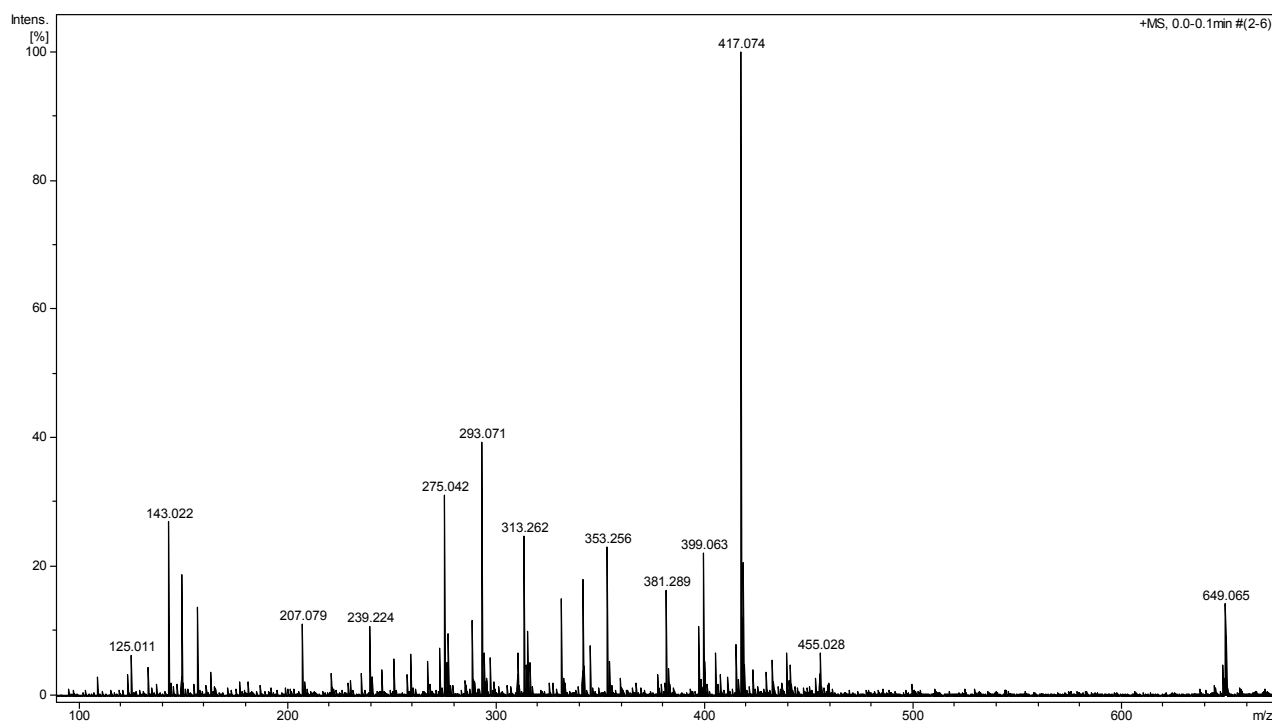


Figure S10A. Experimental data for the peak $m/z = 417.074$ are shown at the top of the panel and compared with the data calculated for the $[(L13)H_3+H]^+$ ($C_{20}H_{17}O_{10}$) (lower panel).

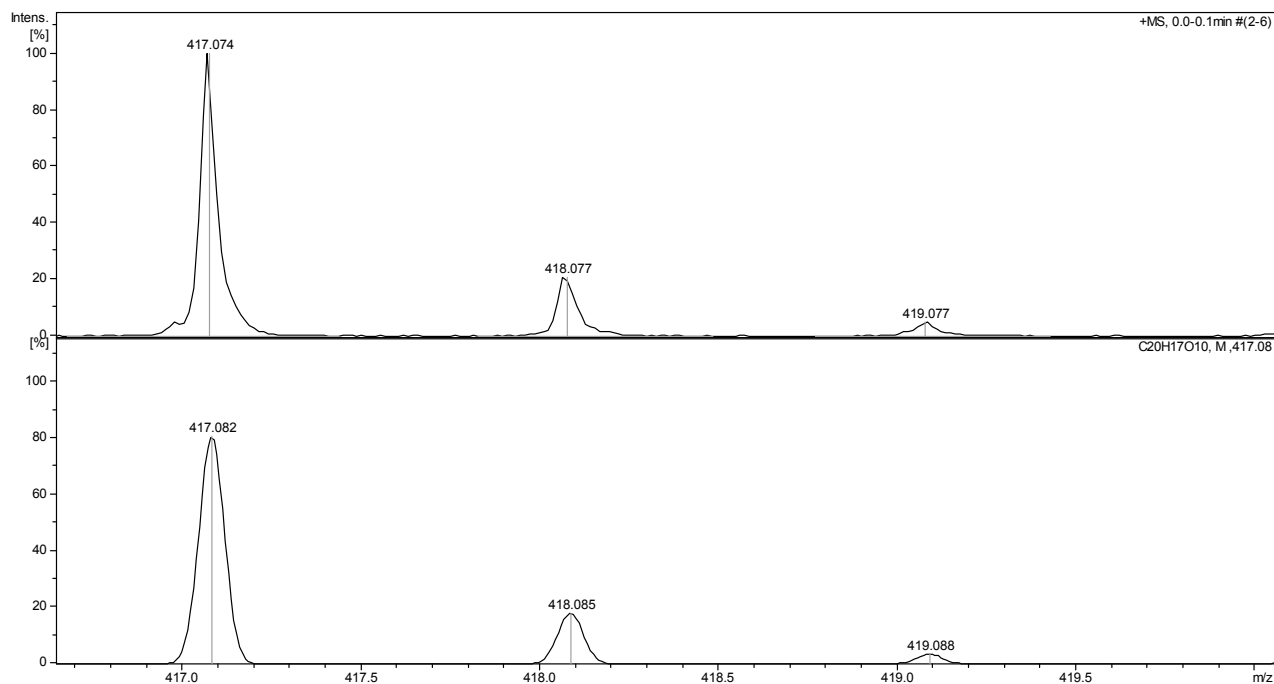


Figure S10B. Experimental data for the peaks $m/z = 143.022$ and 275.055 are shown at the top of the panel and compared with the data calculated for the ($C_6H_7O_4$) and ($C_{14}H_{11}O_6$) fragments (lower panels).

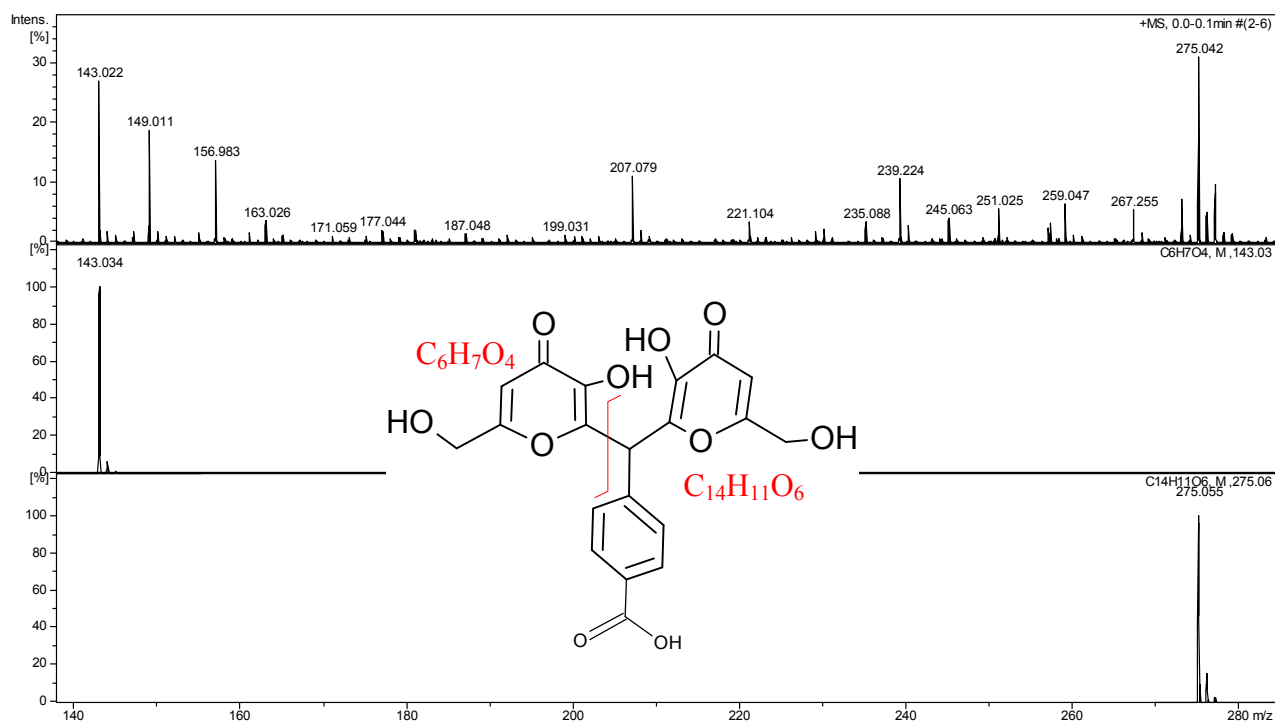


Figure S11. ESI-MS spectrum in negative mode for the L13 compound.

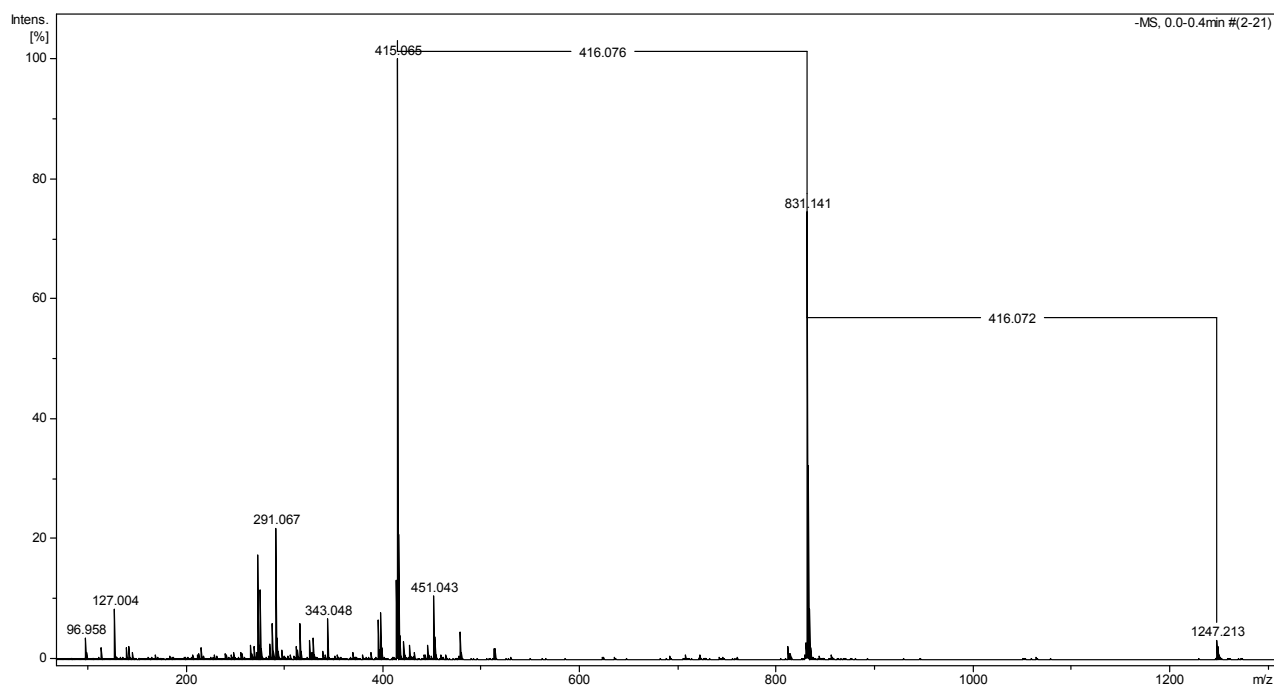


Figure S11A. Experimental data for the peak $m/z = 415.065$ are shown at the top of the panel and compared with the data calculated for the $[(L13)H_2]^-$ ($C_{20}H_{15}O_{10}$) (lower panel).

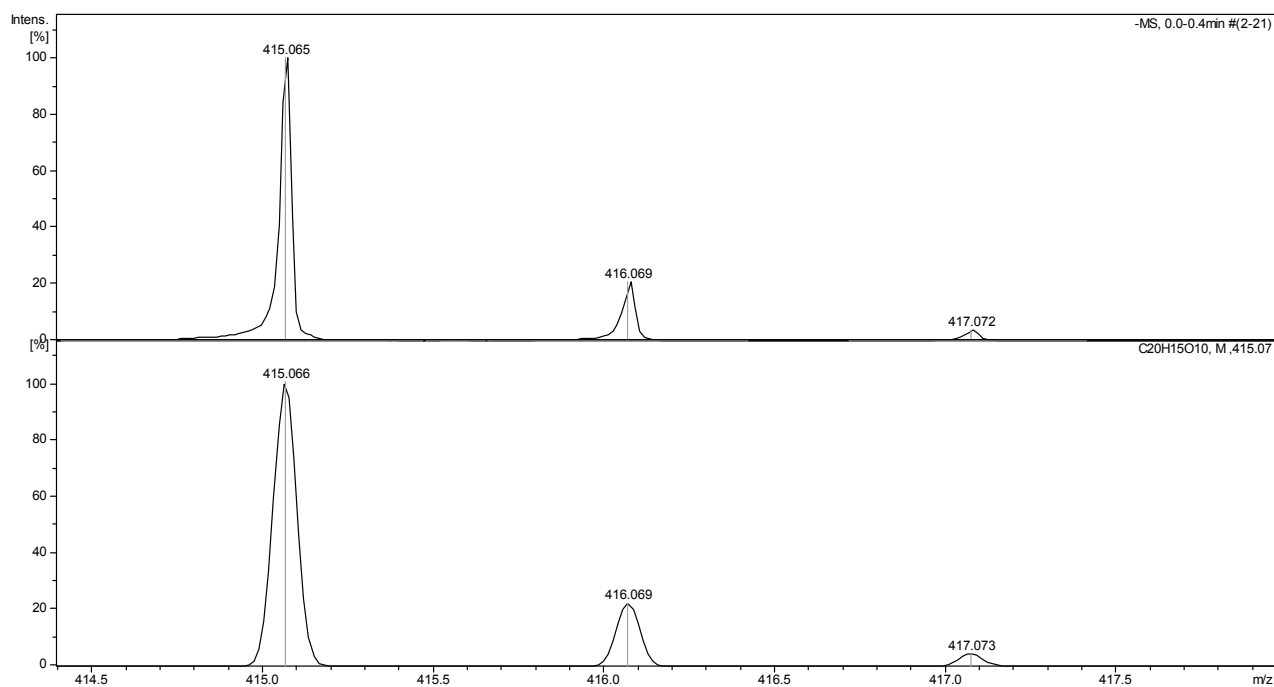


Figure S11B. Experimental data for the peak $m/z = 831.141$ are shown at the top of the panel and compared with the data calculated for the $[(L13)_2H_5]^- (C_{40}H_{31}O_{20})$ (lower panel).

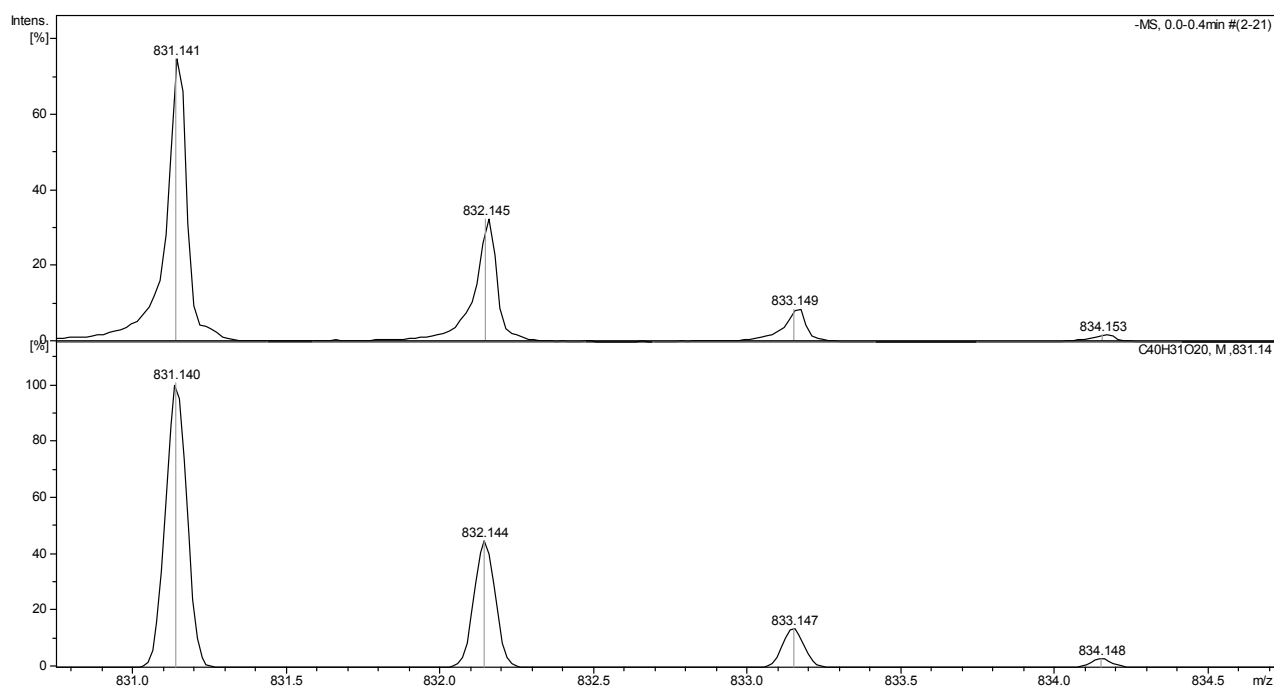


Figure S11C. Experimental data for the peak $m/z = 1247.213$ are shown at the top of the panel and compared with the data calculated for the $[(L13)_3H_8]^- (C_{60}H_{47}O_{30})$ (lower panel).

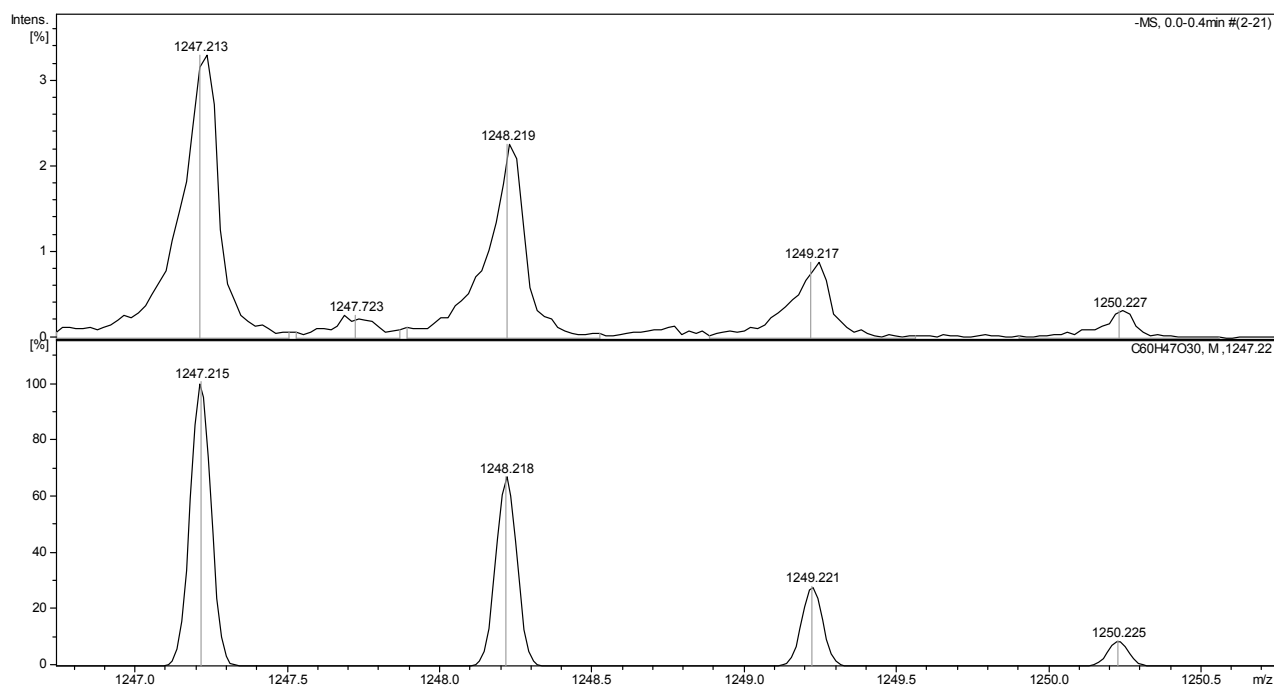


Figure S12. The full spectrum of L13-Al³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

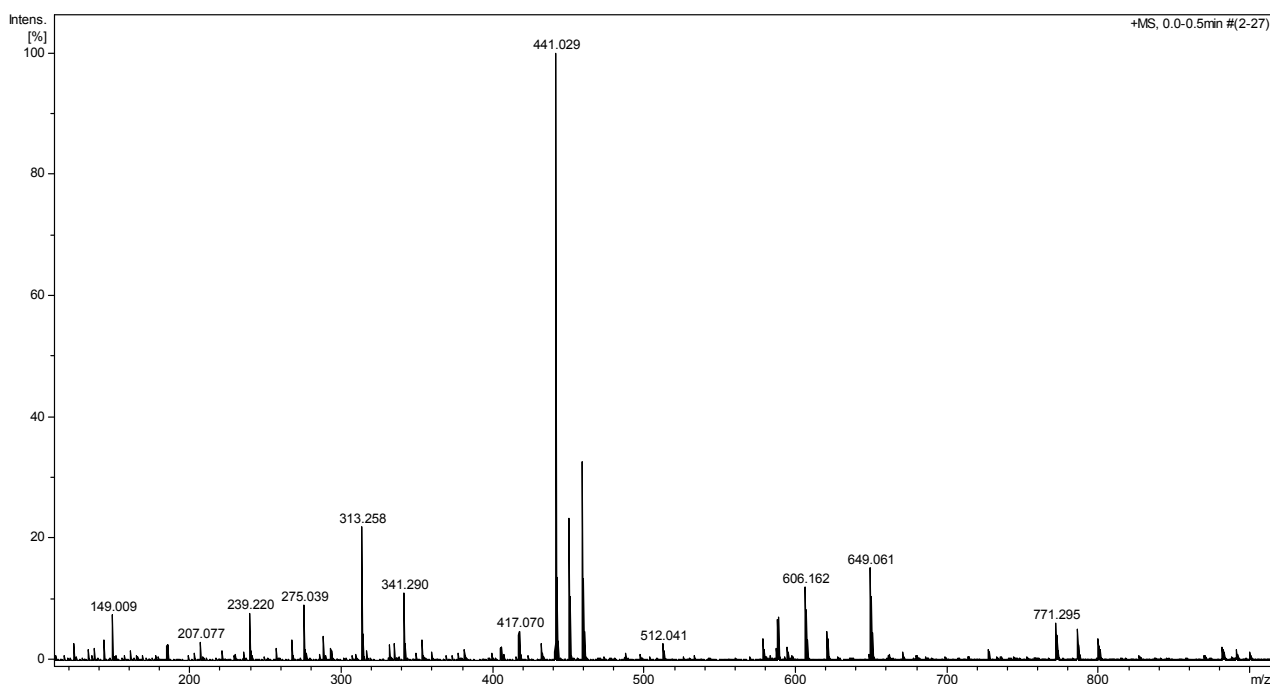


Figure S12A. Experimental data for the peaks m/z = 441.029 and 459.040 are shown at the top of the panel and compared with the data calculated for the [Al₂(L13)₂H₂]²⁺ (C₄₀H₂₈Al₂O₂₀) and [Al₂(L13)₂H₂+2H₂O]²⁺ (C₄₀H₃₂Al₂O₂₂) complexes (lower panels).

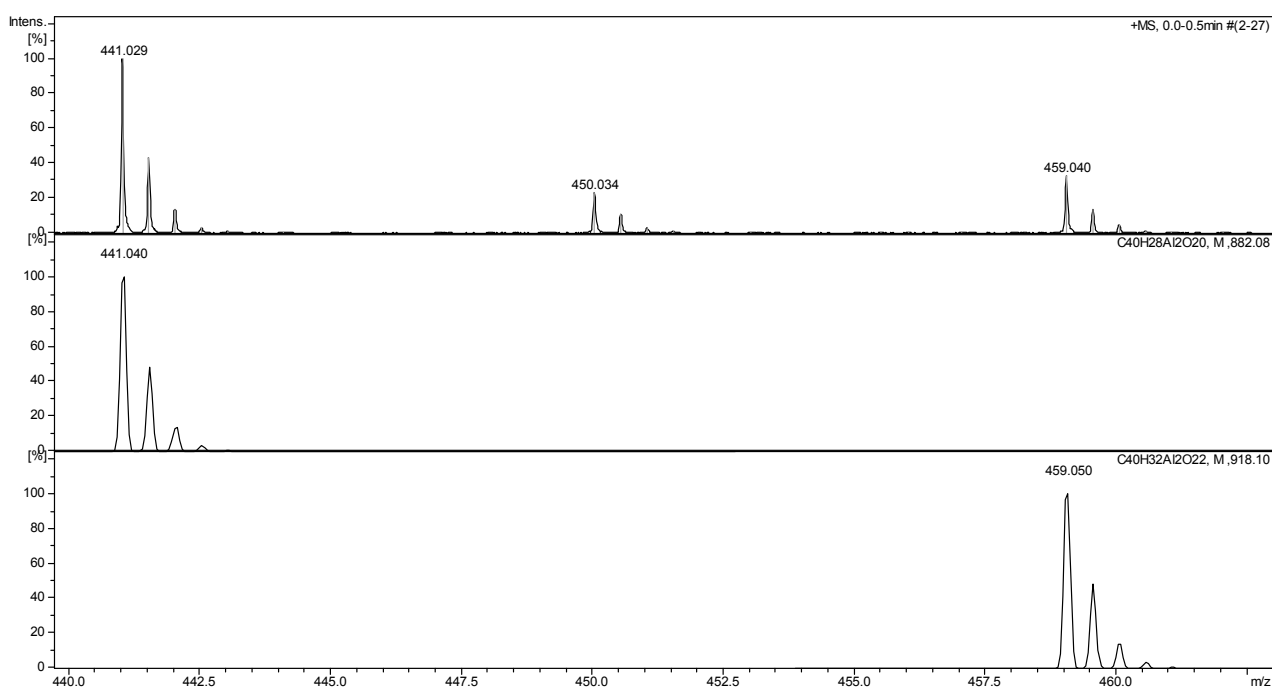


Figure S13. Electrospray ionization with tandem mass spectrometry (MS/MS) spectrum of the $[\text{Al}_2(\text{L13})_2\text{H}_2]^{2+}$ complex. The peak selected for fragmentation in the MS/MS experiment is indicated by a diamond.

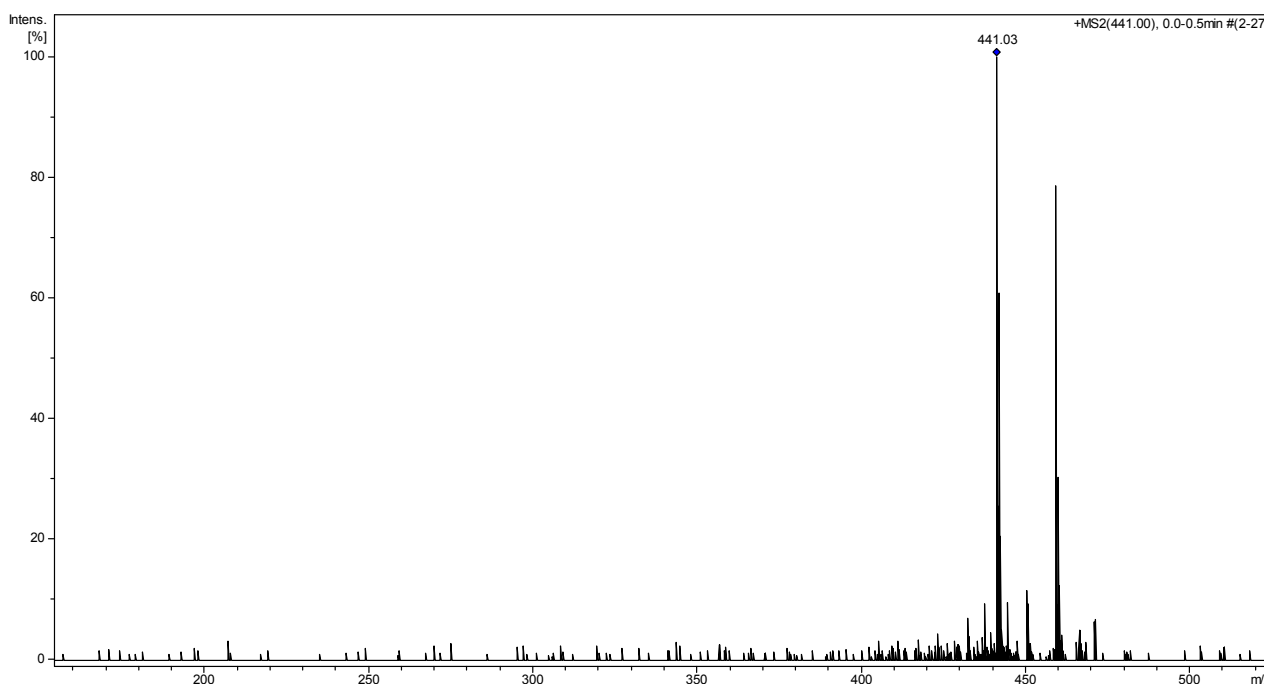


Figure S13A. Experimental data for the peak $m/z = 459.05$ are shown at the top of the panel and compared with the data calculated for the $[\text{Al}(\text{L13})\text{H}+\text{H}_2\text{O}]^+$ ($\text{C}_{20}\text{H}_{16}\text{AlO}_{11}$) complex (lower panel).

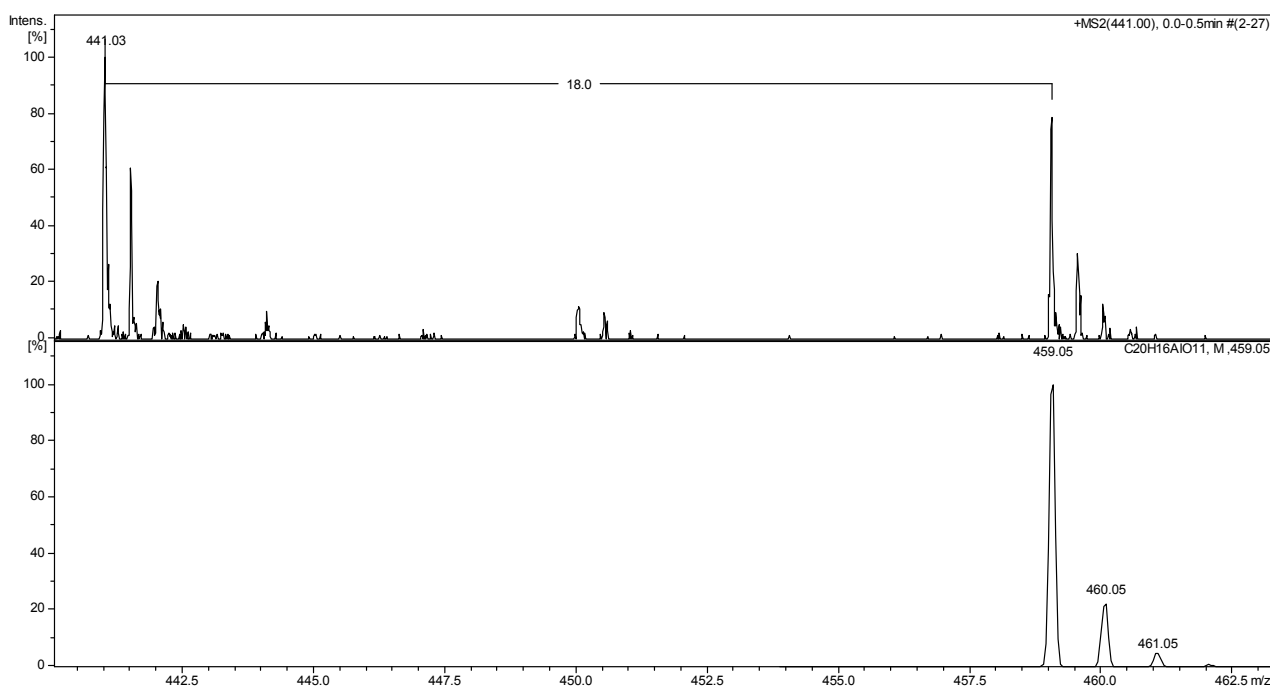


Figure S14. The full spectrum of L13-Cu²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

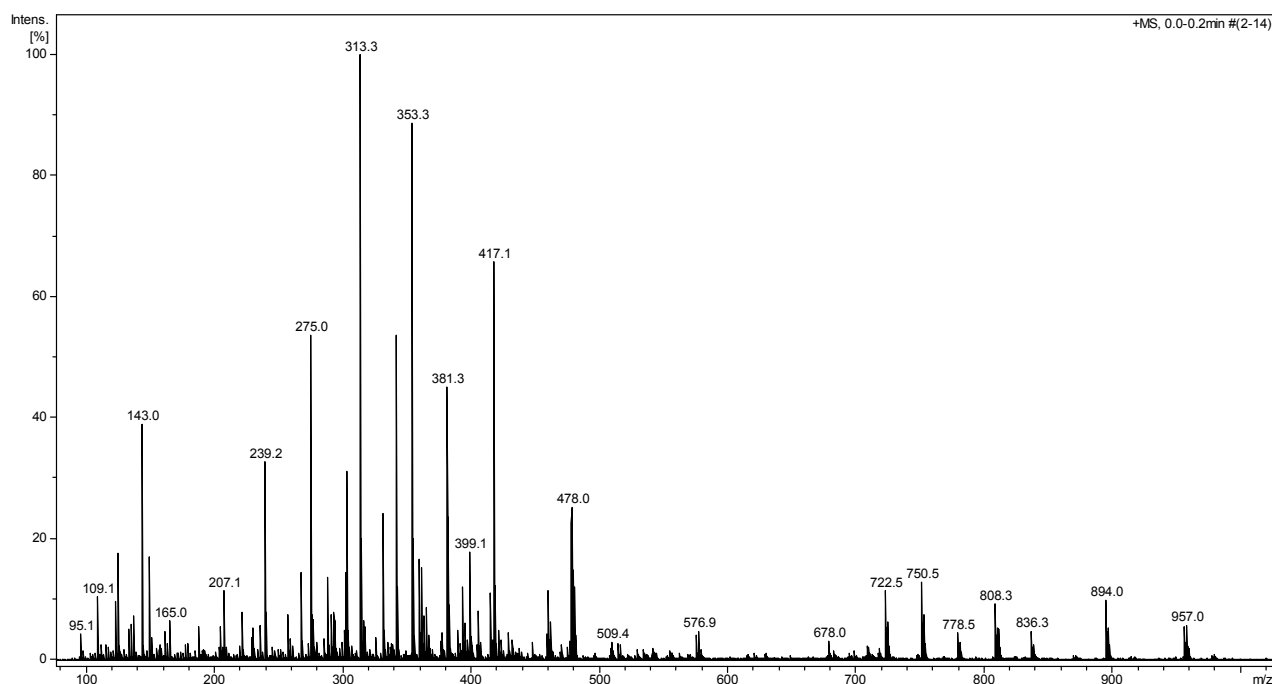


Figure S14A. Experimental data for the peak m/z = 477.986 are shown at the top of the panel and compared with the data calculated for the [Cu(L13)H₂]⁺ (C₂₀H₁₅CuO₁₀) and [Cu₂(L13)₂H₄]²⁺ (C₄₀H₃₀Cu₂O₂₀) complexes (lower panels).

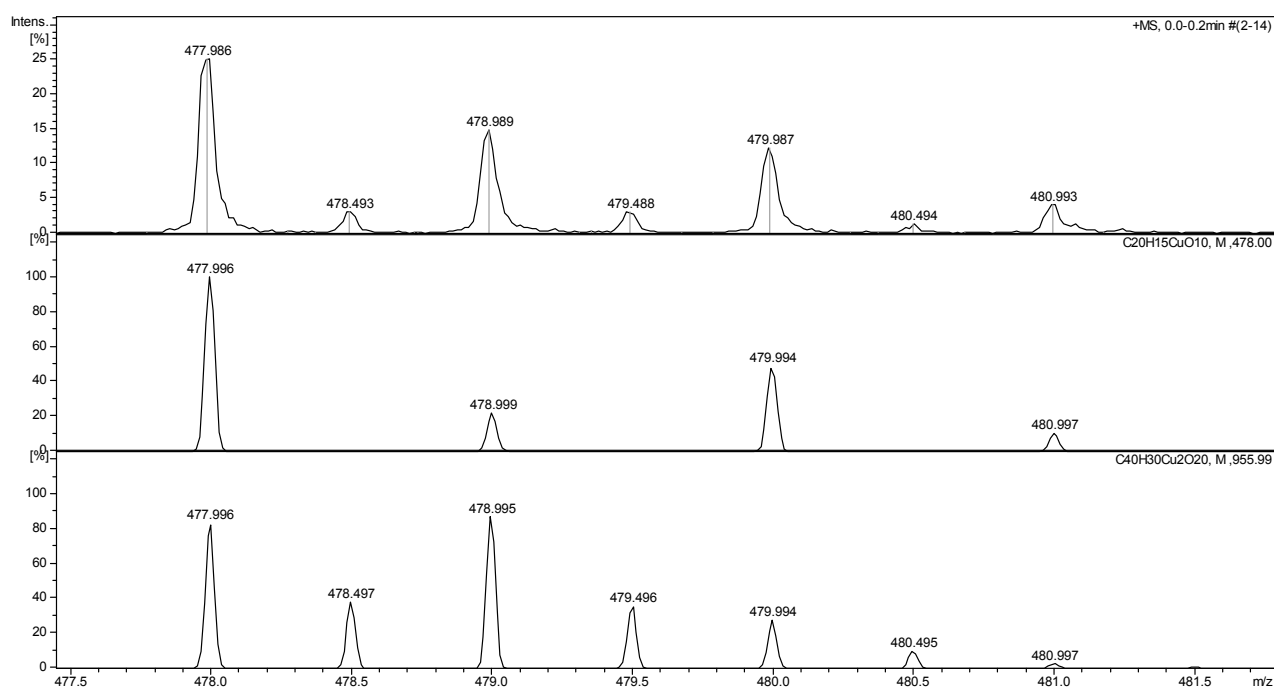


Figure S14B. Experimental data for the peak $m/z = 954.960$ are shown at the top of the panel and compared with the data calculated for the $[\text{Cu}_2(\text{L13})_2\text{H}]^+$ ($\text{C}_{40}\text{H}_{29}\text{Cu}_2\text{O}_{20}$) complex (lower panel).

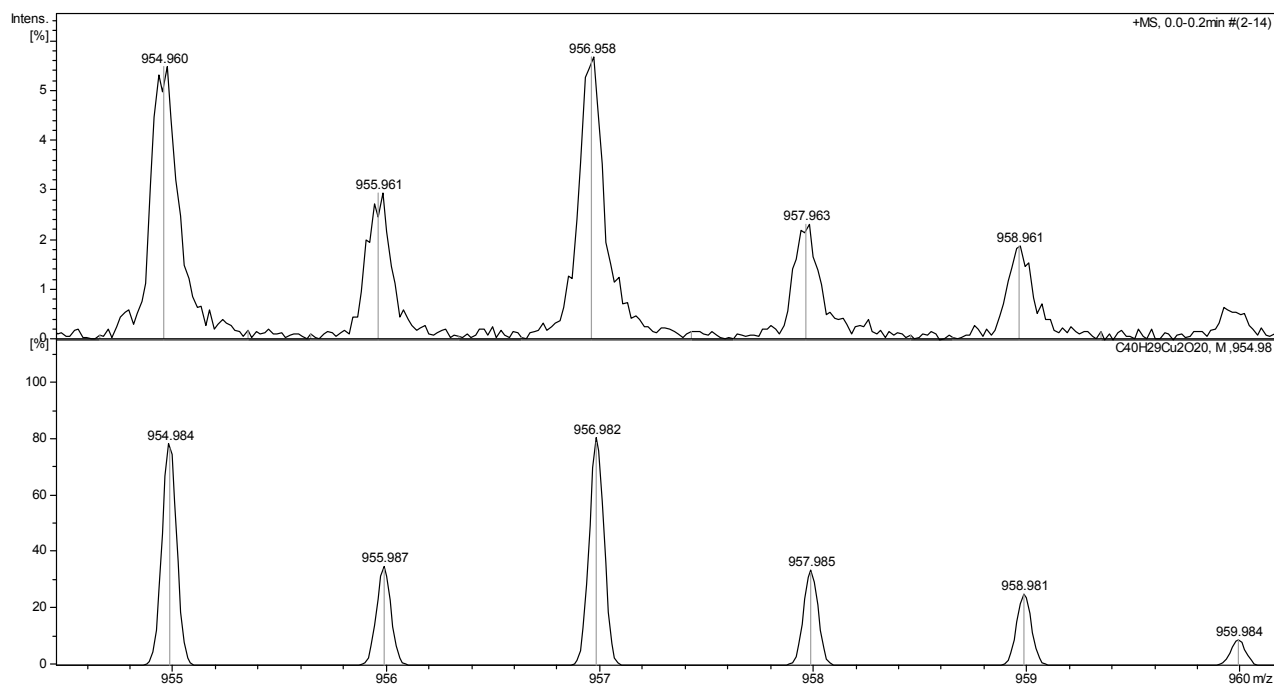


Figure S15. The full spectrum of L13-Fe³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

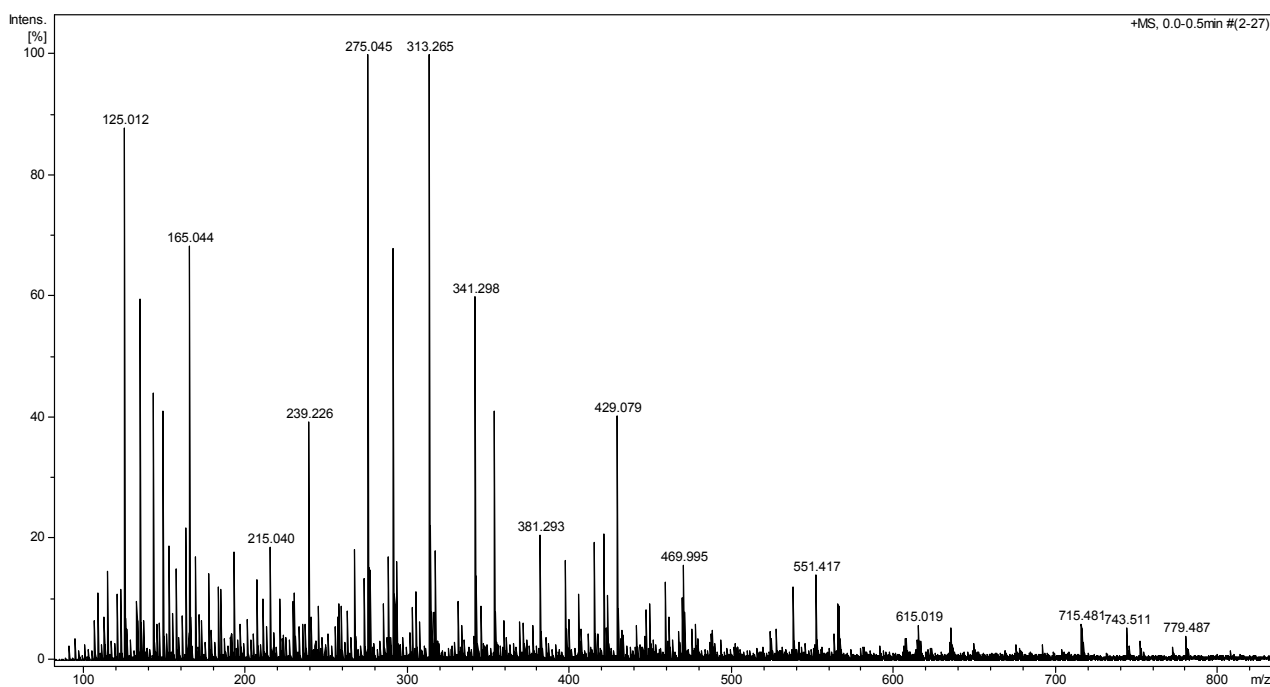


Figure S15A. Experimental data for the peaks m/z = 469.995, 478.998 and 488.004 are shown at the top of the panel and compared with the data calculated for the [Fe₂(L13)₂H₂]²⁺ (C₄₀H₂₈Fe₂O₂₀), [Fe₂(L13)₂H₂+H₂O]²⁺ (C₄₀H₃₀Fe₂O₂₁) and [Fe₂(L13)₂H₂+2H₂O]²⁺ (C₄₀H₃₂Fe₂O₂₂) complexes (lower panels).

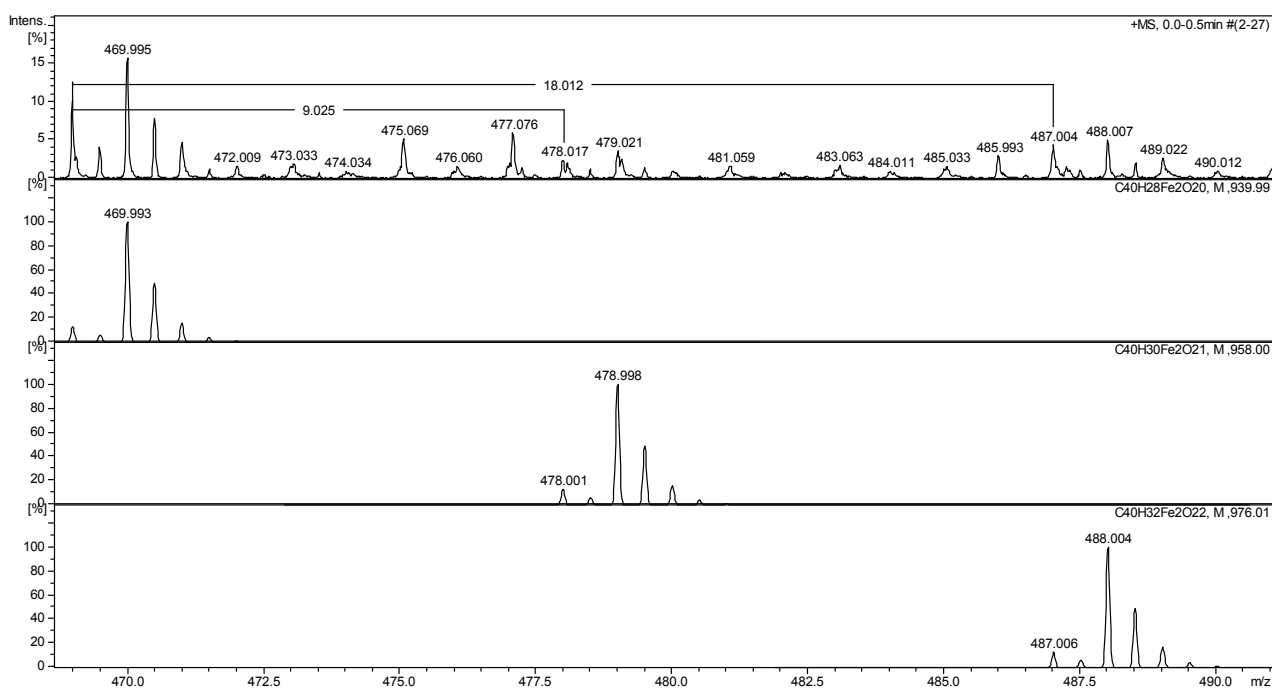


Figure S16. The full spectrum of L13-Zn²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

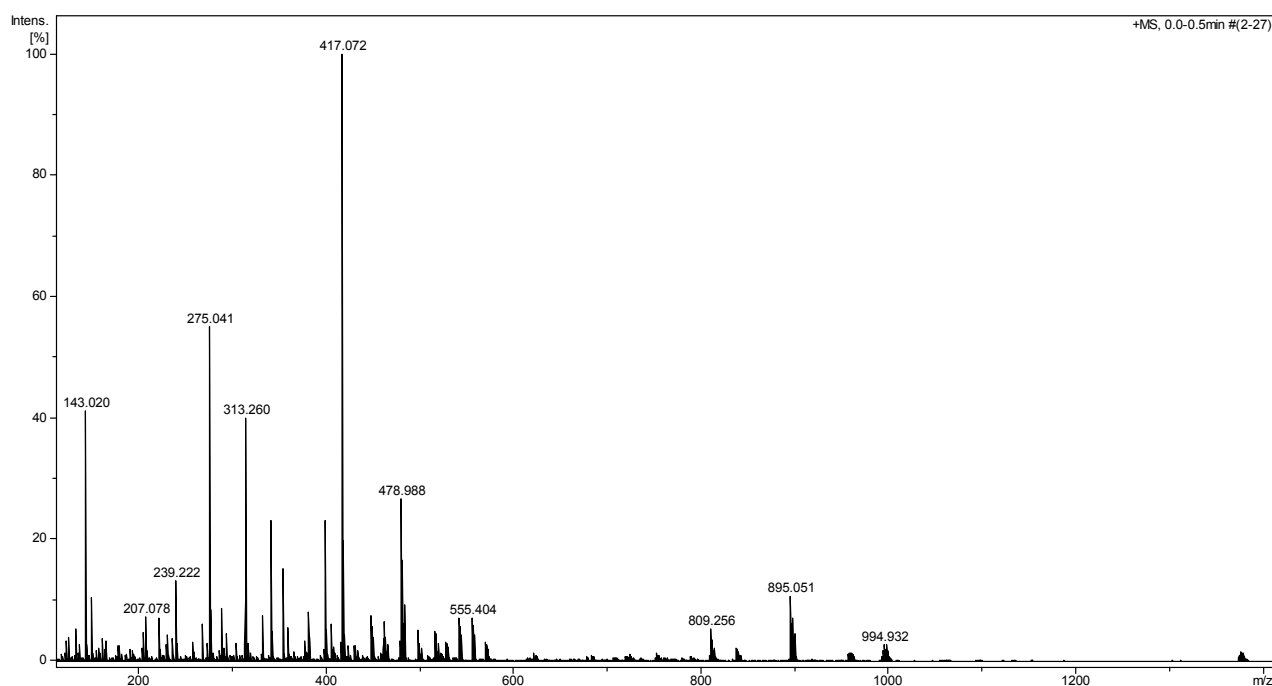


Figure S16A. Experimental data for the peak m/z = 478.988 are shown at the top of the panel and compared with the data calculated for the [Zn₂(L13)₂H₄]²⁺ (C₄₀H₃₀Zn₂O₂₀) and [Zn(L13)H₂]⁺ (C₂₀H₁₅ZnO₁₀) complexes (lower panels).

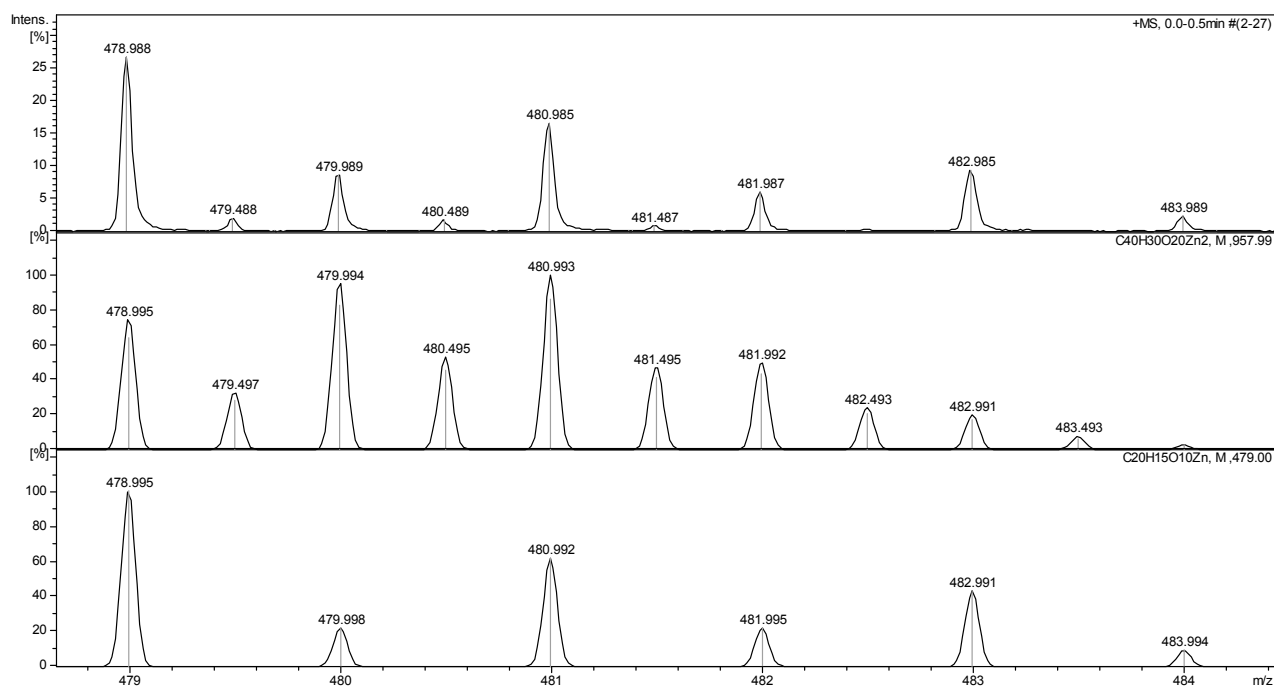


Figure S16B. Experimental data for the peaks $m/z = 496.998$ and 514.977 are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L13})\text{H}_2+\text{H}_2\text{O}]^+$ ($\text{C}_{20}\text{H}_{17}\text{ZnO}_{11}$) and $[\text{Zn}(\text{L13})\text{H}_2+2\text{H}_2\text{O}]^+$ ($\text{C}_{20}\text{H}_{19}\text{ZnO}_{12}$) complexes (lower panels).

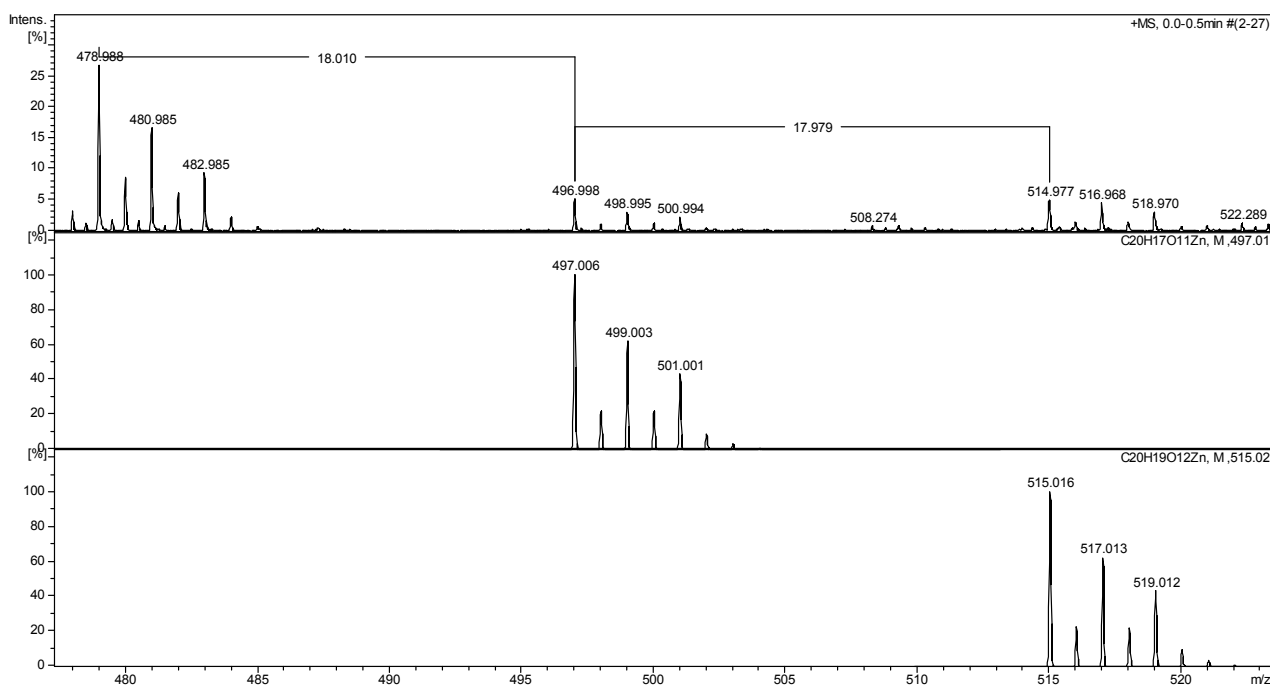


Figure S16C. Experimental data for the peak $m/z = 956.964$ are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}_2(\text{L13})_2\text{H}]^+$ ($\text{C}_{40}\text{H}_{29}\text{Zn}_2\text{O}_{20}$) (lower panel).

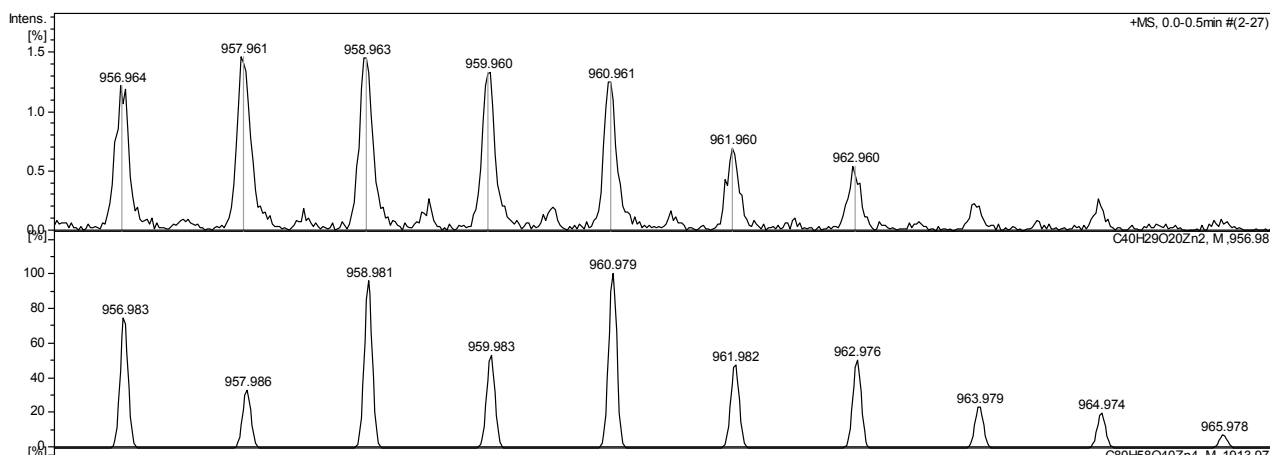


Figure S17. ESI-MS spectrum in positive mode for the L14 compound.

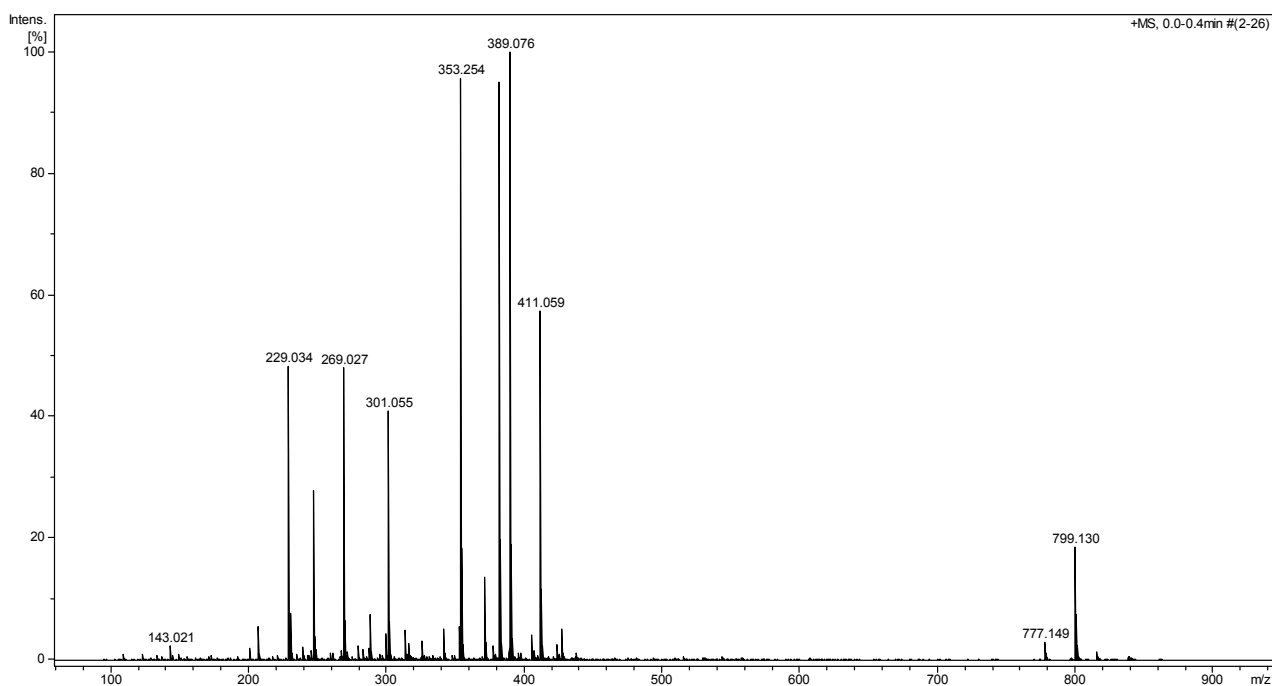


Figure S17A. Experimental data for the peaks $m/z = 389.076$, 411.059 and 427.033 are shown at the top of the panel and compared with the data calculated for the $[(L14)H_3+H]^+$ ($C_{19}H_{16}O_{10}$), $[(L14)H_3+Na]^+$ ($C_{19}H_{16}O_9Na$) and the $[(L14)H_3+K]^+$ ($C_{19}H_{16}O_9K$) (lower panels).

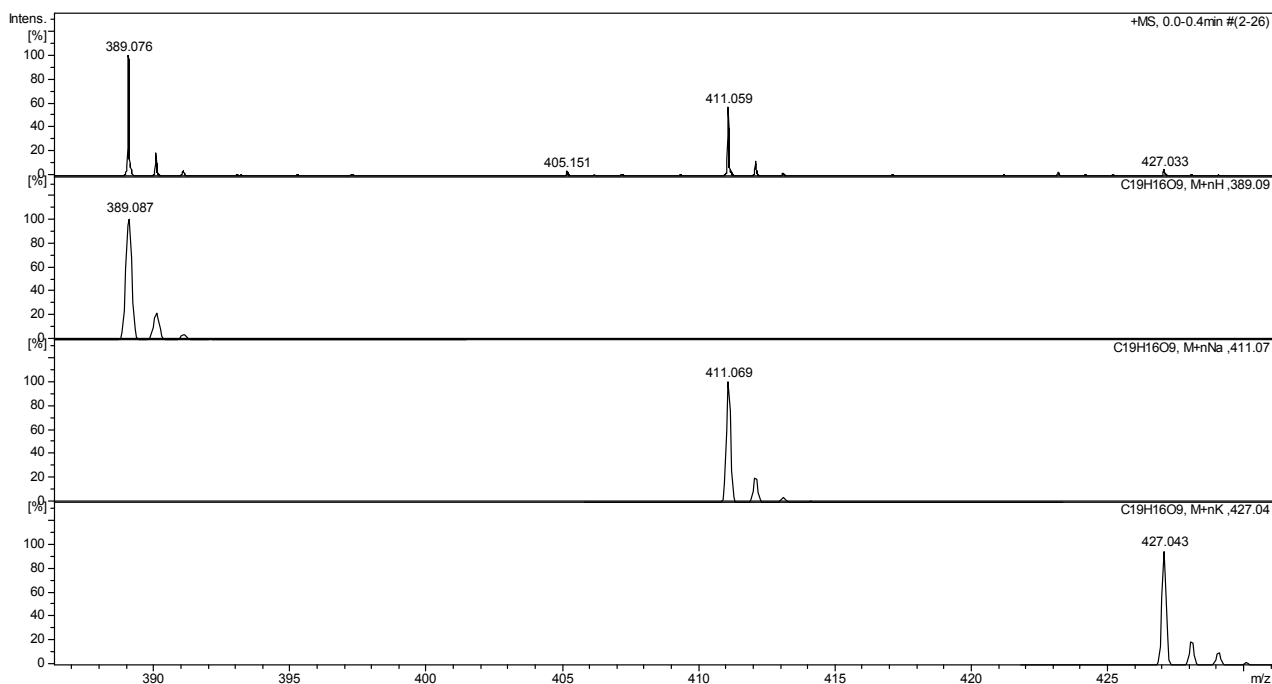


Figure S17B. Experimental data for the peaks $m/z = 143.021$ and 247.045 are shown at the top of the panel and compared with the data calculated for the ($C_6H_7O_4$) and ($C_{13}H_{11}O_5$) fragments (lower panels).

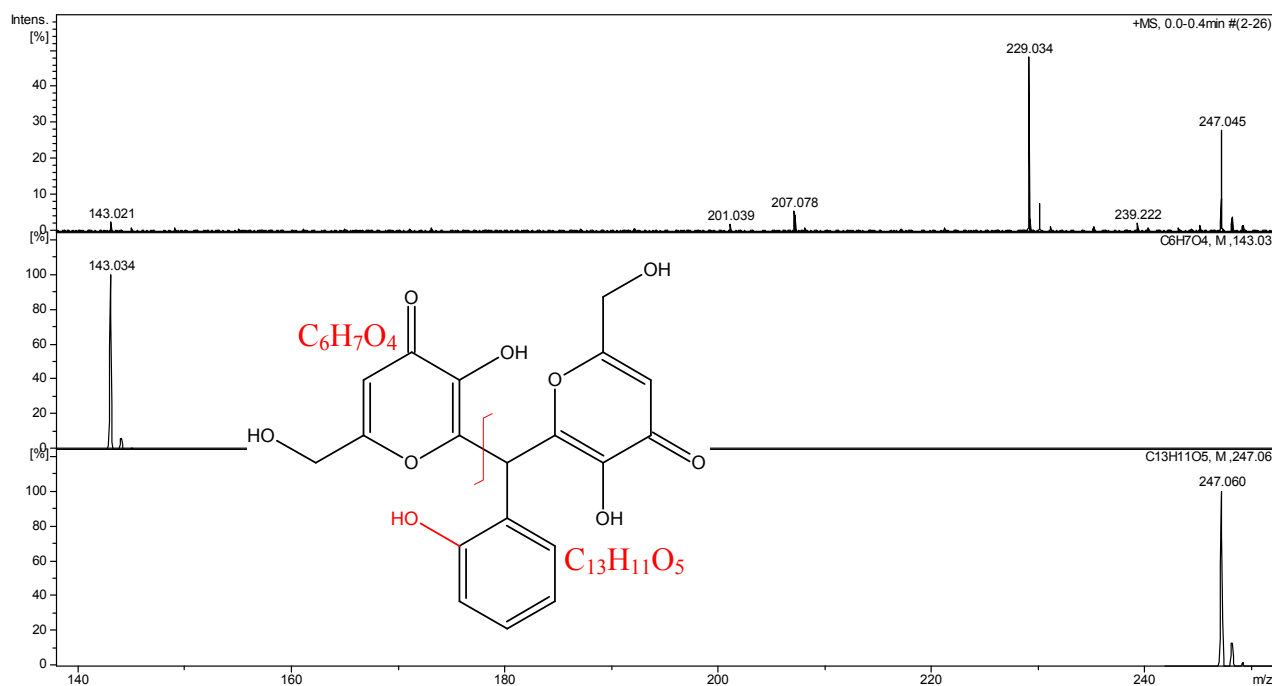


Figure S17C. Experimental data for the peak $m/z = 799.130$ are shown at the top of the panel and compared with the data calculated for the $[(L14)_2H_6+Na]^+$ ($C_{38}H_{32}O_{18}Na$) (lower panel).

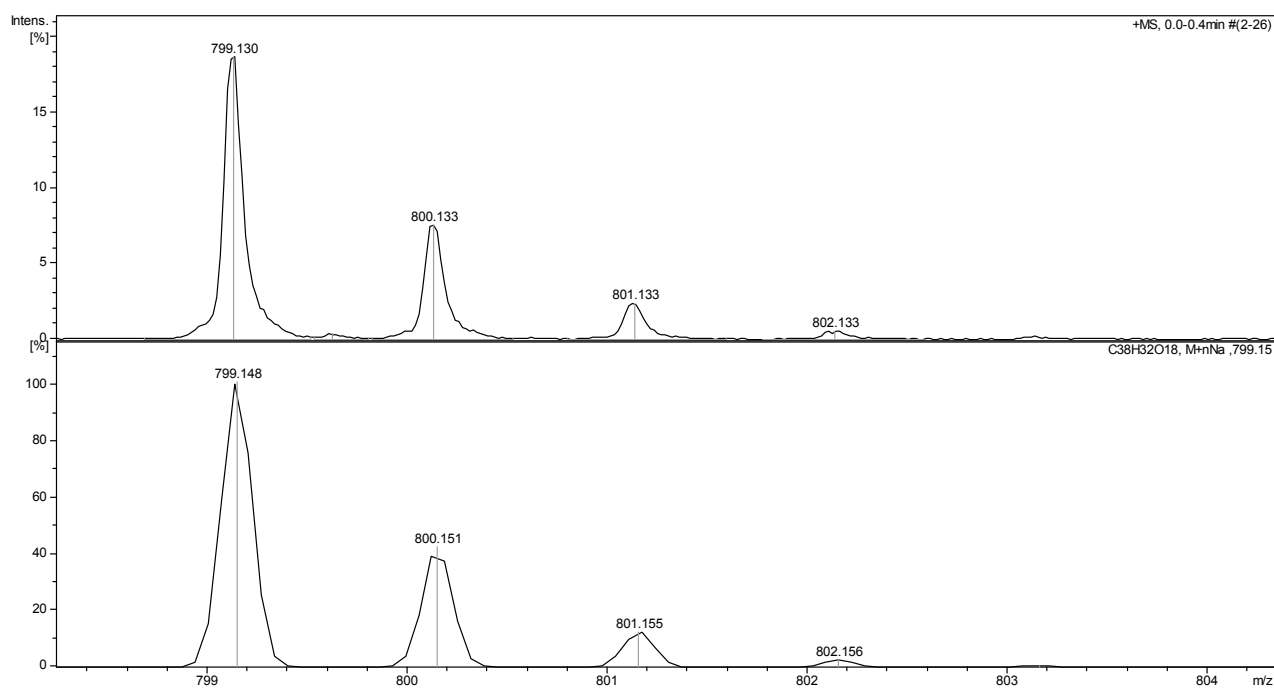


Figure S18. ESI-MS spectrum in negative mode for the L14 compound.

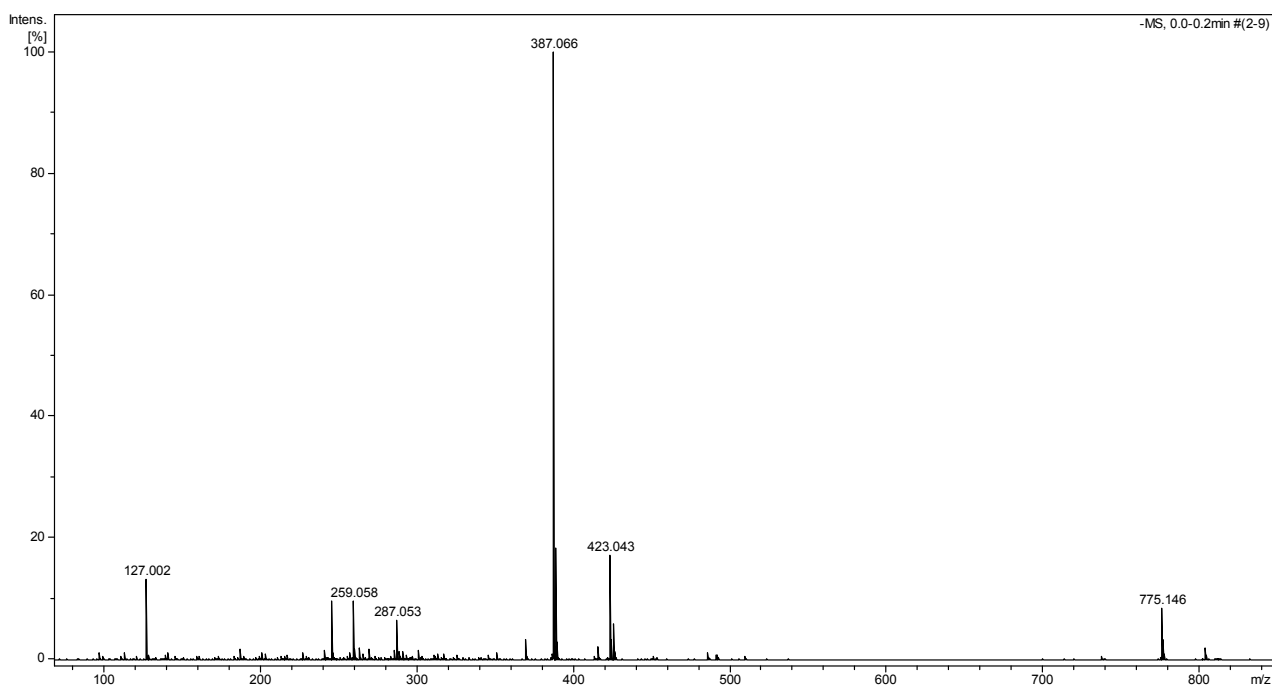


Figure S18A. Experimental data for the peaks $m/z = 387.066$ and 423.043 are shown at the top of the panel and compared with the data calculated for the $[(L14)H_2]^-$ ($C_{19}H_{15}O_9$) and $[(L14)H_3+Cl]^-$ ($C_{19}H_{16}O_9Cl$) (lower panels).

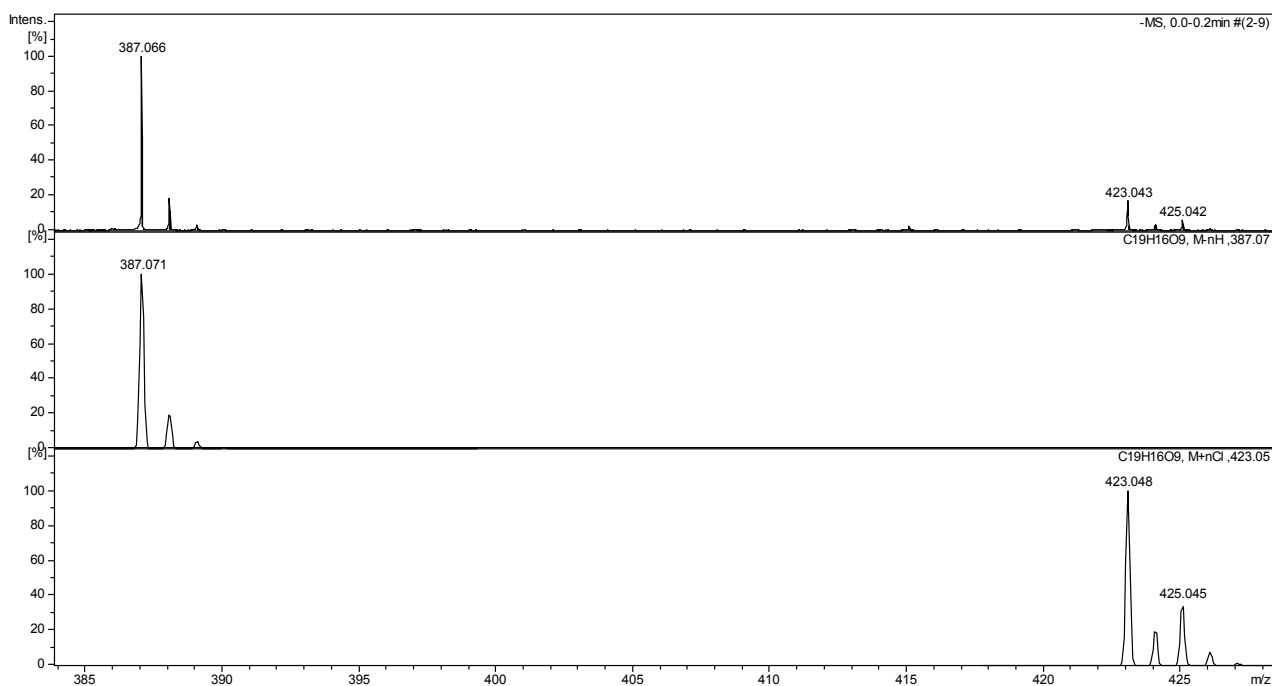


Figure S19. The full spectrum of L14-Al³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

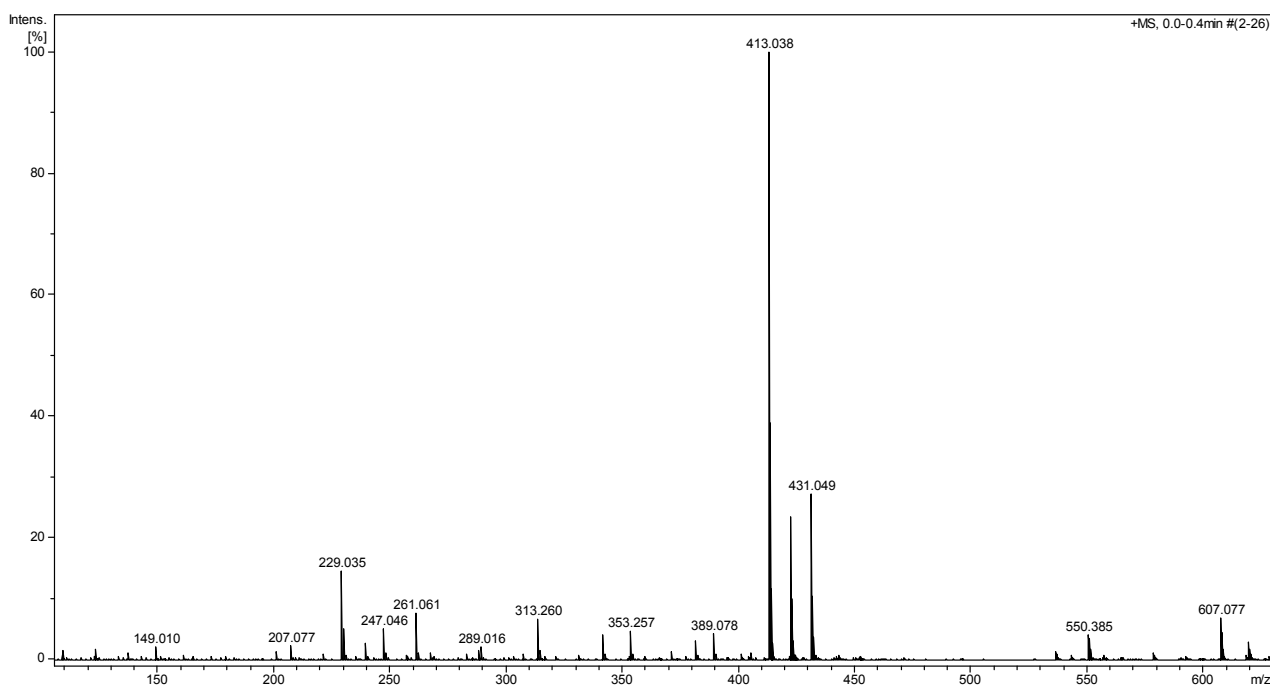


Figure S19A. Experimental data for the peaks m/z = 413.038, 422.044 and 431.049 are shown at the top of the panel and compared with the data calculated for the [Al₂(L14)₂H₂]²⁺ (C₃₈H₂₈Al₂O₁₈), [Al₂(L14)₂H₂+H₂O]²⁺ (C₃₈H₃₀Al₂O₁₉) and [Al₂(L14)₂H₂+2H₂O]²⁺ (C₃₈H₃₂Al₂O₂₀) complexes (lower panels).

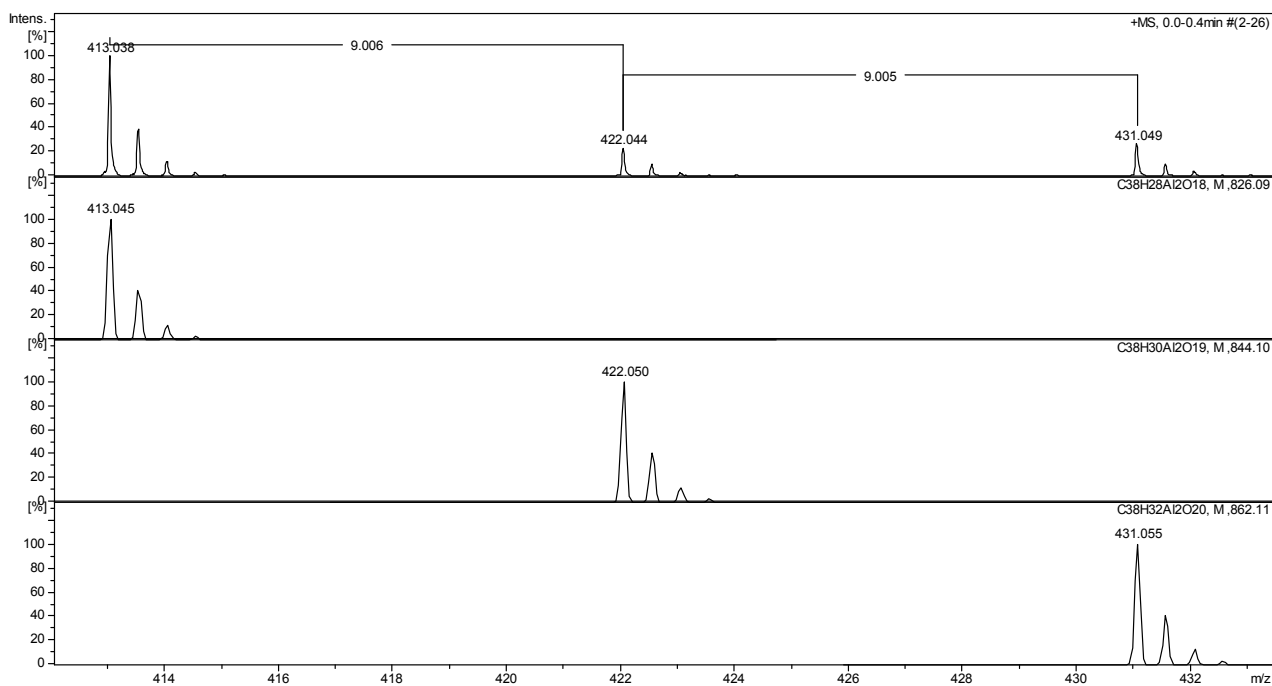


Figure S19B. Experimental data for the peak $m/z = 607.077$ are shown at the top of the panel and compared with the data calculated for the $[\text{Al}_2(\text{L14})_3\text{H}_5]^{2+}$ ($\text{C}_{57}\text{H}_{44}\text{Al}_2\text{O}_{27}$) complex (lower panel).

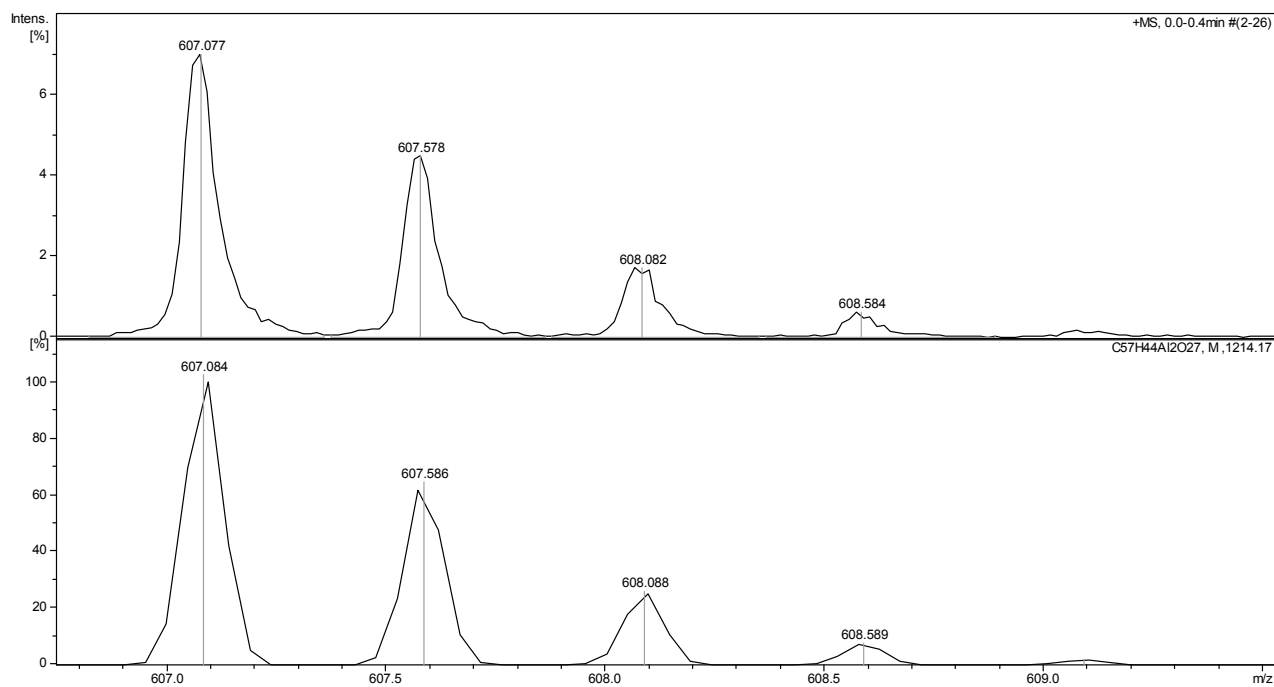


Figure S20. Electrospray ionization with tandem mass spectrometry (MS/MS) spectrum of the $[\text{Al}_2(\text{L14})_2\text{H}_2]^{2+}$ complex. The peak selected for fragmentation in the MS/MS experiment is indicated by a diamond.

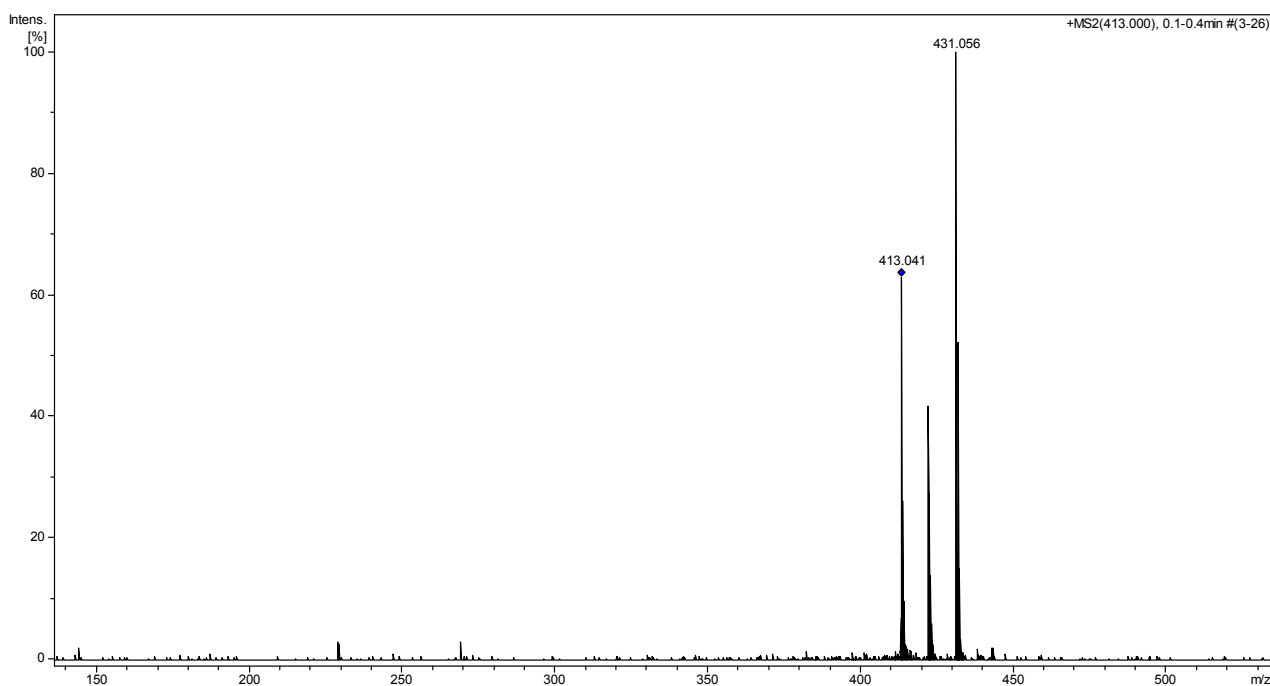


Figure S20A. Experimental data for the peaks $m/z = 413.041$, 422.049 and 431.056 are shown at the top of the panel and compared with the data calculated for the $[\text{Al}_2(\text{L14})_2\text{H}_2]^{2+}$ ($\text{C}_{38}\text{H}_{28}\text{Al}_2\text{O}_{18}$), $[\text{Al}_2(\text{L14})_2\text{H}_2+\text{H}_2\text{O}]^{2+}$ ($\text{C}_{38}\text{H}_{30}\text{Al}_2\text{O}_{19}$) and $[\text{Al}_2(\text{L14})_2\text{H}_2+2\text{H}_2\text{O}]^{2+}$ ($\text{C}_{38}\text{H}_{32}\text{Al}_2\text{O}_{20}$) complexes (lower panels).

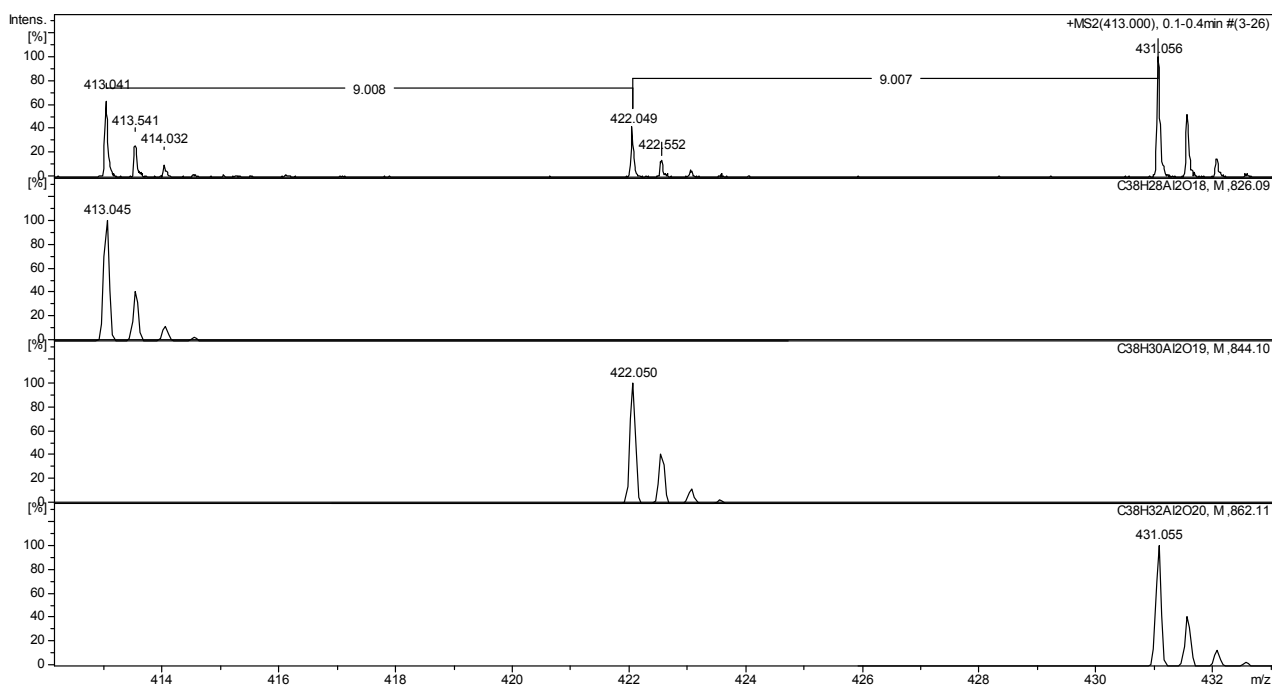


Figure S21. The full spectrum of L14-Cu²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

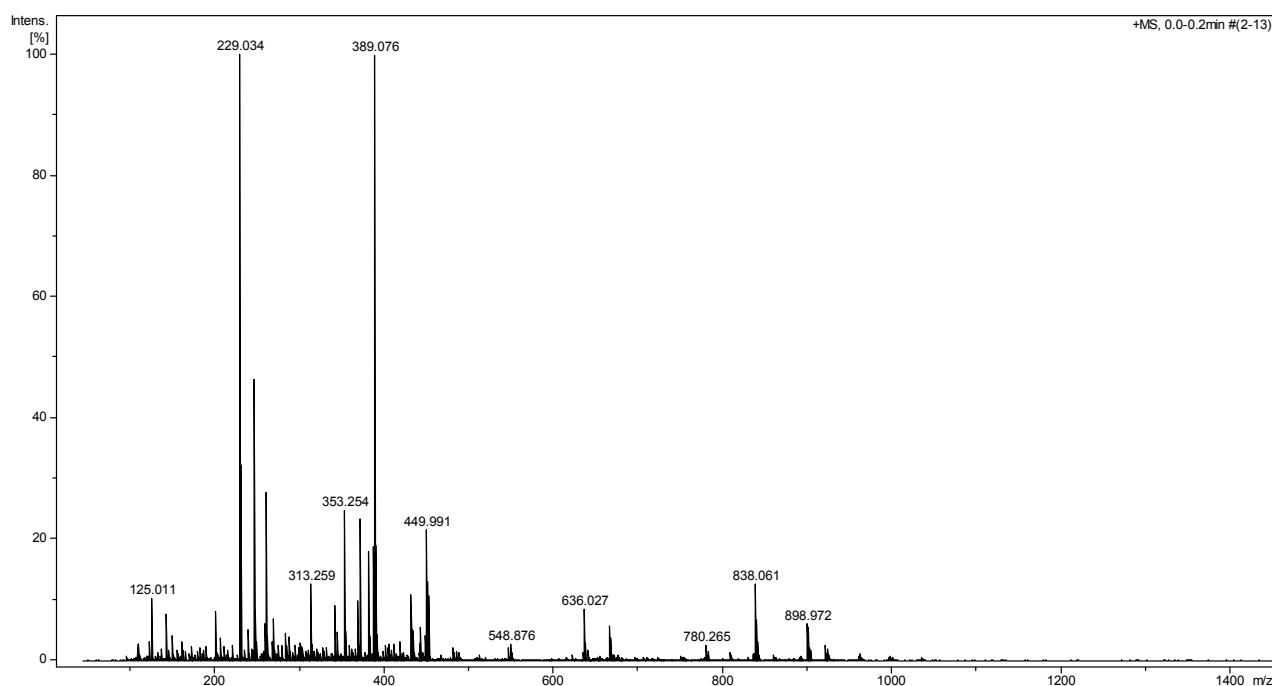


Figure S21A. Experimental data for the peak m/z = 449.991 are shown at the top of the panel and compared with the data calculated for the [Cu(L14)H₂]⁺ (C₁₉H₁₅CuO₉) and [Cu₂(L14)₂H₄]²⁺ (C₃₈H₃₀Cu₂O₁₈) complexes (lower panels).

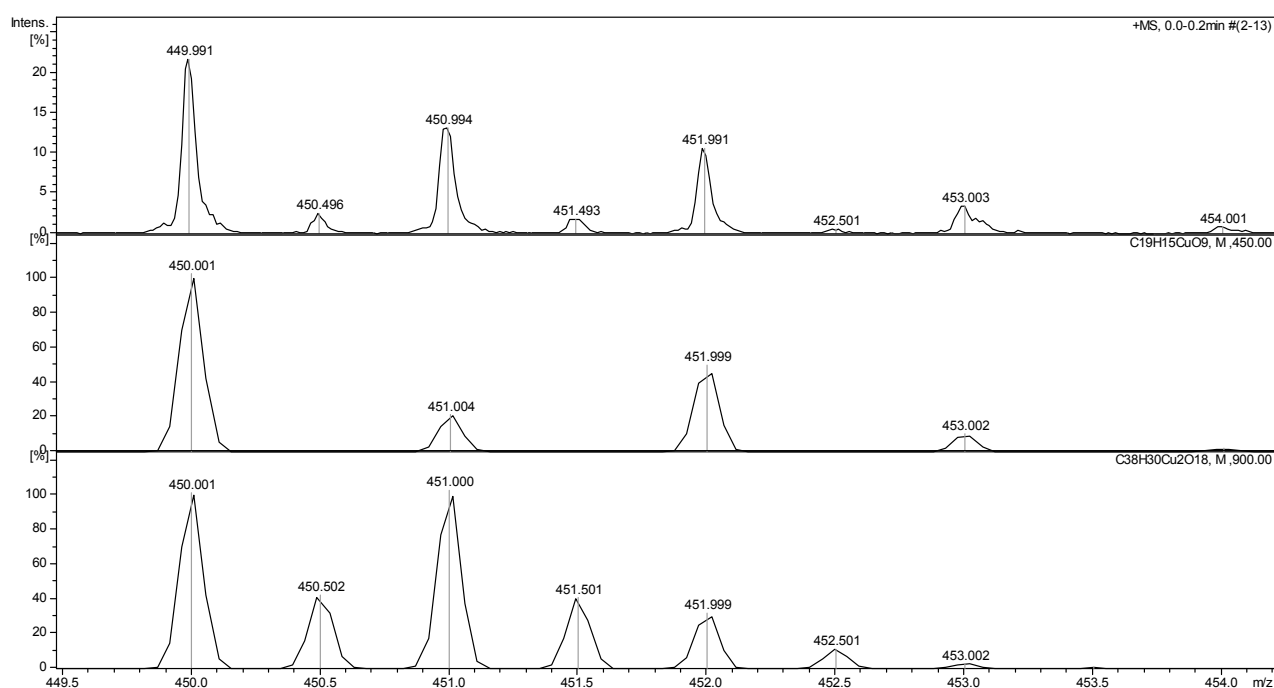


Figure S21B. Experimental data for the peak $m/z = 838.061$ are shown at the top of the panel and compared with the data calculated for the $[\text{Cu}(\text{L14})_2\text{H}_5]^+$ ($\text{C}_{38}\text{H}_{31}\text{CuO}_{18}$) complex (lower panel).

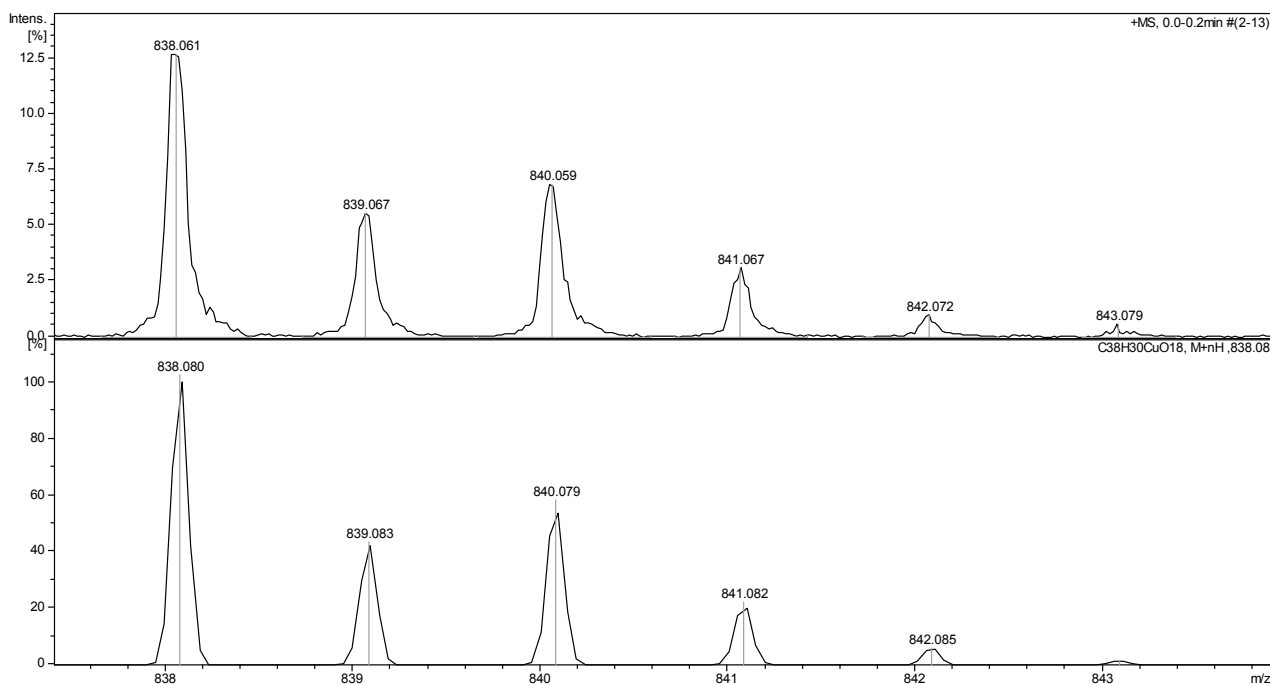


Figure S21C. Experimental data for the peak $m/z = 898.972$ are shown at the top of the panel and compared with the data calculated for the $[\text{Cu}_2(\text{L14})_2\text{H}_3]^+$ ($\text{C}_{38}\text{H}_{29}\text{Cu}_2\text{O}_{18}$) complex (lower panel).

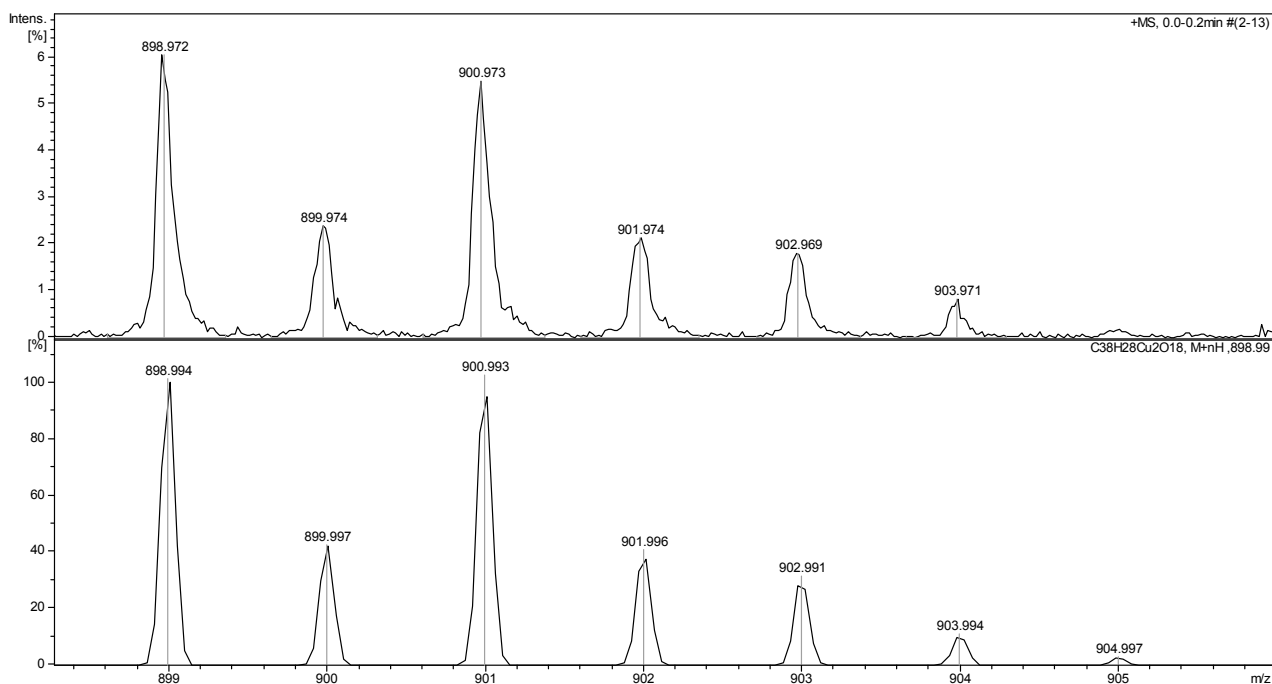


Figure S22. The full spectrum of L14-Fe³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

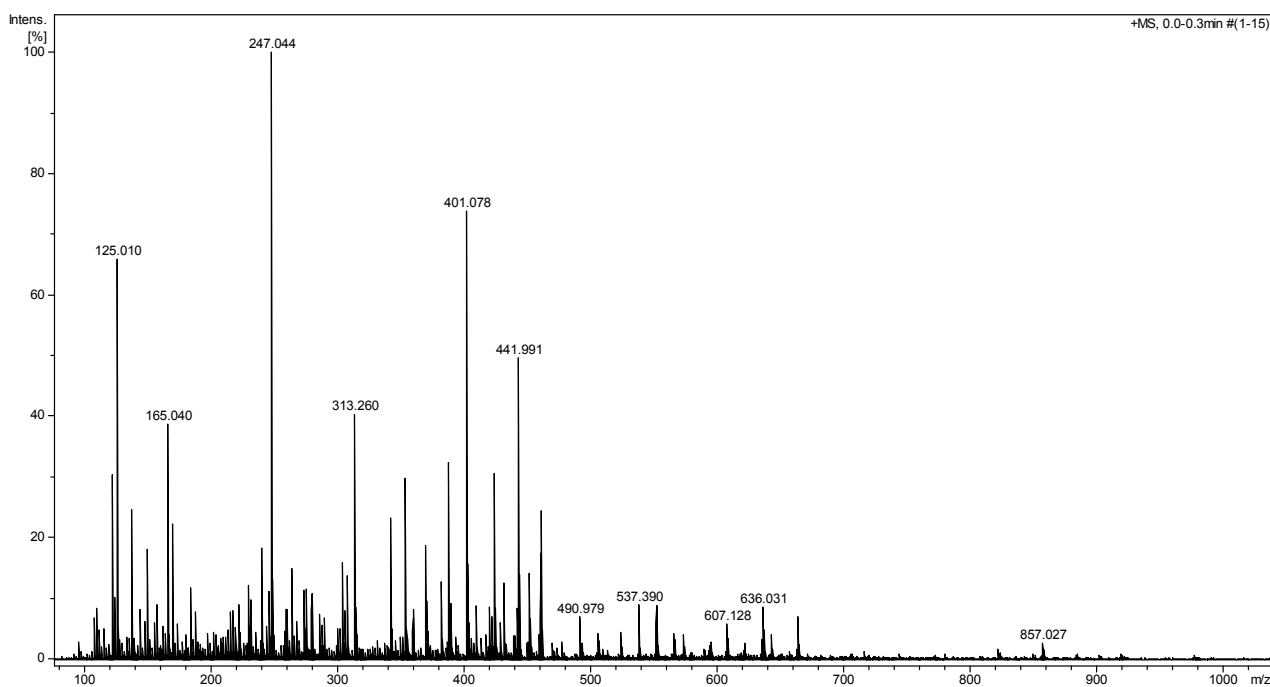


Figure S22A. Experimental data for the peaks m/z = 441.991, 450.998 and 460.004 are shown at the top of the panel and compared with the data calculated for the [Fe₂(L14)₂H₂]²⁺ (C₃₈H₂₈Fe₂O₁₈), [Fe₂(L14)₂H₂+H₂O]²⁺ (C₃₈H₃₀Fe₂O₁₉) and [Fe₂(L14)₂H₂+2H₂O]²⁺ (C₃₈H₃₂Fe₂O₂₀) (lower panels).

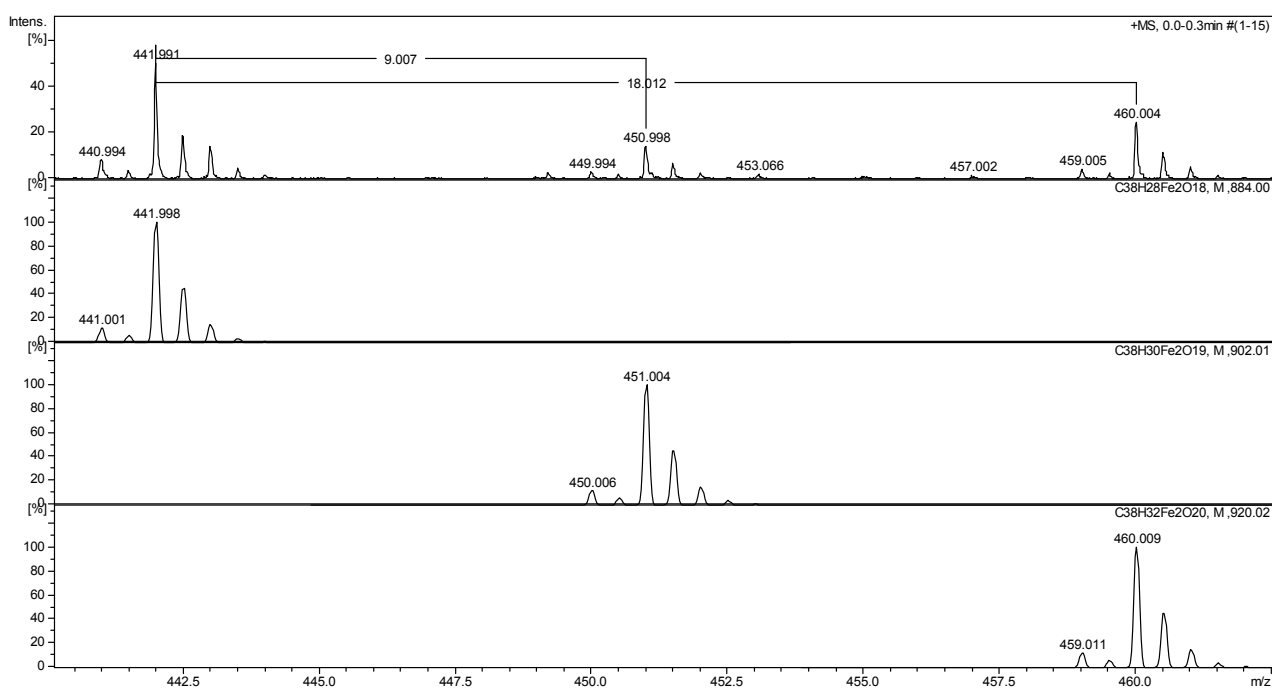


Figure S23. The full spectrum of L14-Zn²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

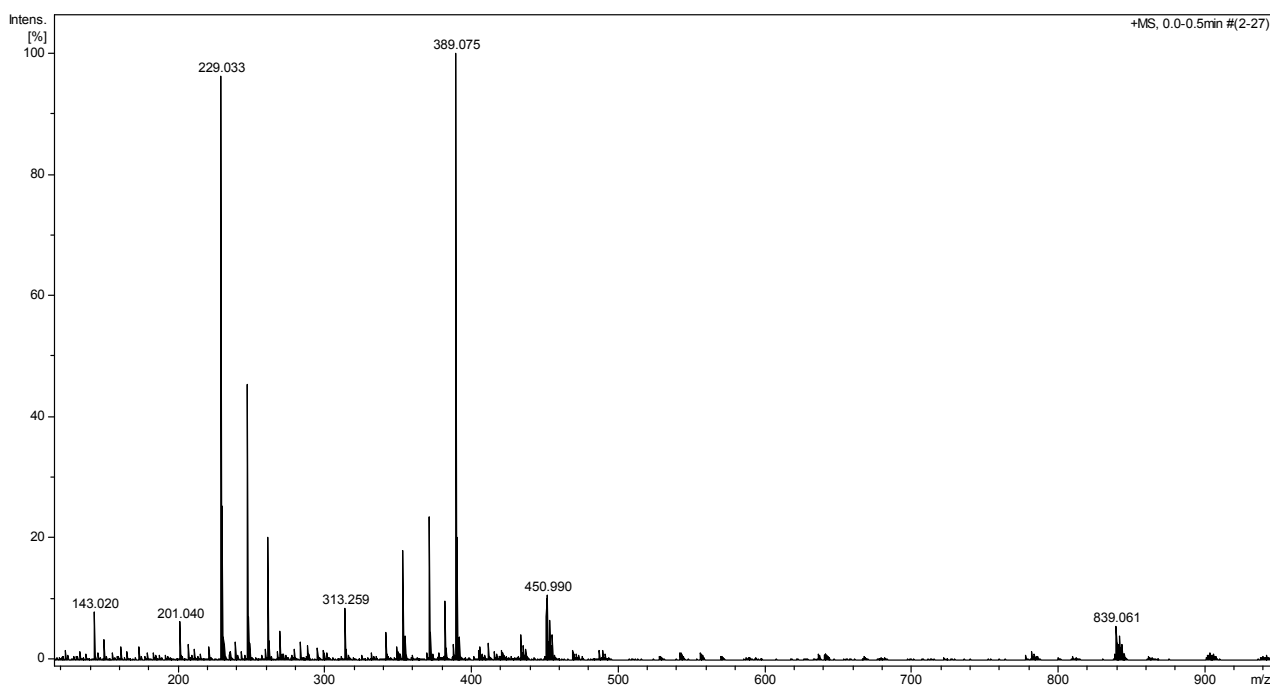


Figure S23A. Experimental data for the peak m/z = 450.990 are shown at the top of the panel and compared with the data calculated for the [Zn₂(L14)₂H₄]²⁺ (C₃₈H₃₀Zn₂O₁₈) and [Zn(L14)H₂]⁺ (C₁₉H₁₅ZnO₉) complexes (lower panels).

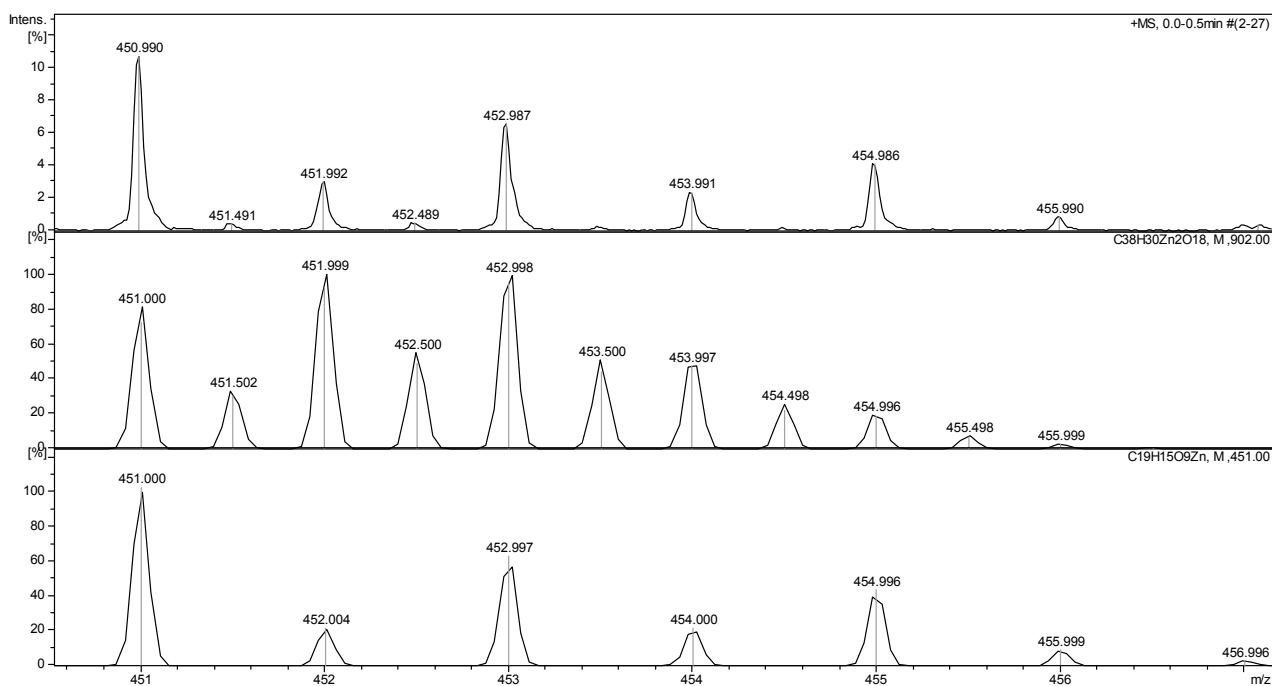


Figure S24. Electrospray ionization with tandem mass spectrometry (MS/MS) spectrum of the $[\text{Zn}_2(\text{L14})_2\text{H}_4]^{2+}$ complex. The peak selected for fragmentation in the MS/MS experiment is indicated by a diamond.

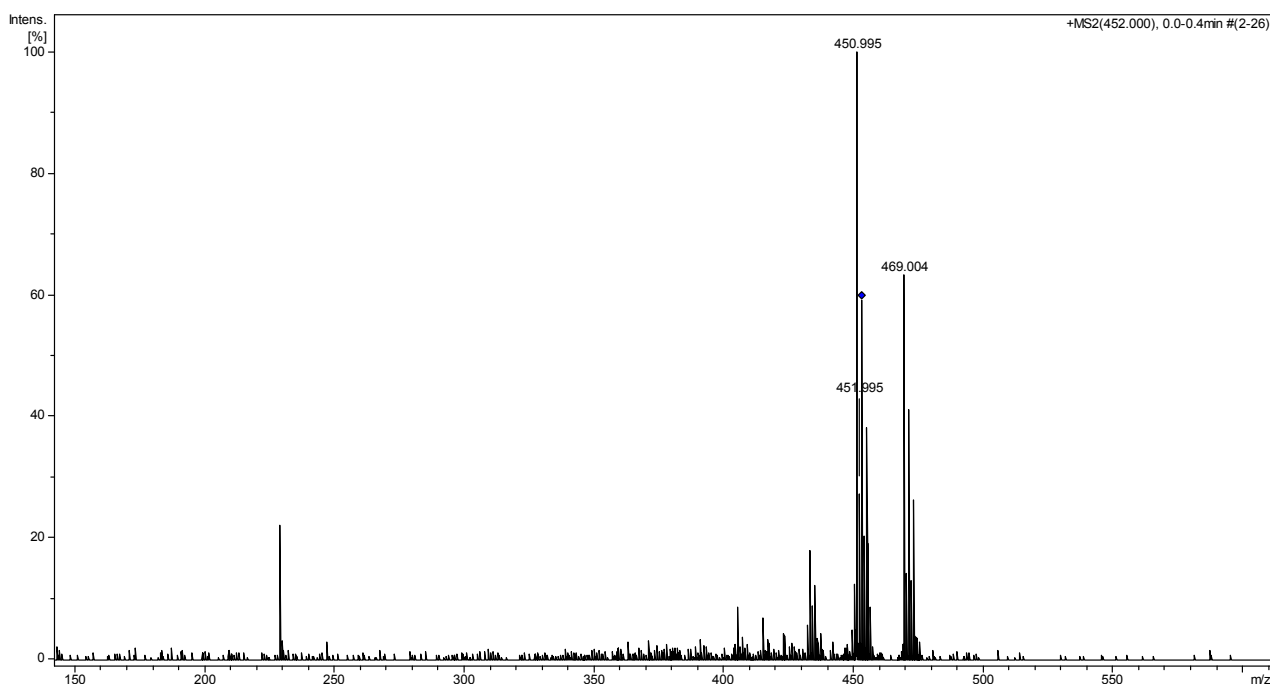


Figure S24A. Experimental data for the peaks $m/z = 450.995$ and 469.004 are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L14})\text{H}_2]^+$ ($\text{C}_{19}\text{H}_{15}\text{ZnO}_9$) and $[\text{Zn}(\text{L14})\text{H}_2+\text{H}_2\text{O}]^+$ ($\text{C}_{19}\text{H}_{17}\text{O}_{10}\text{Zn}$) complexes (lower panels).

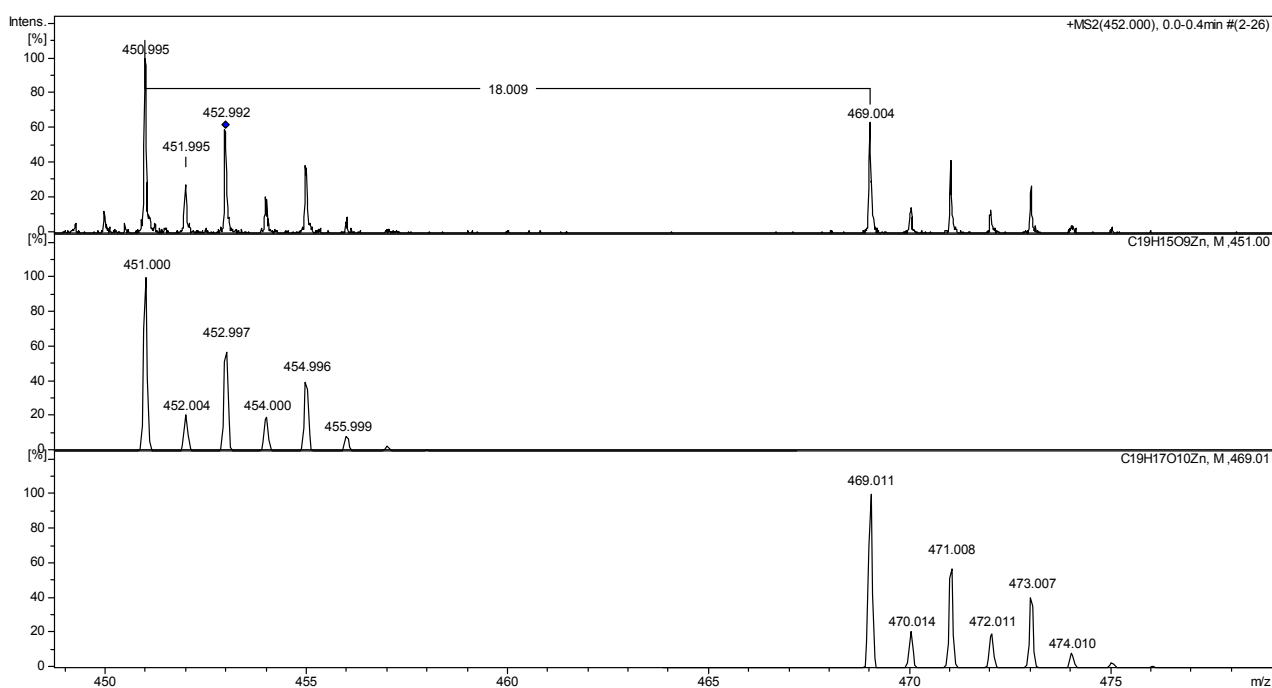


Figure S25. ESI-MS spectrum in positive mode for the L15 compound.

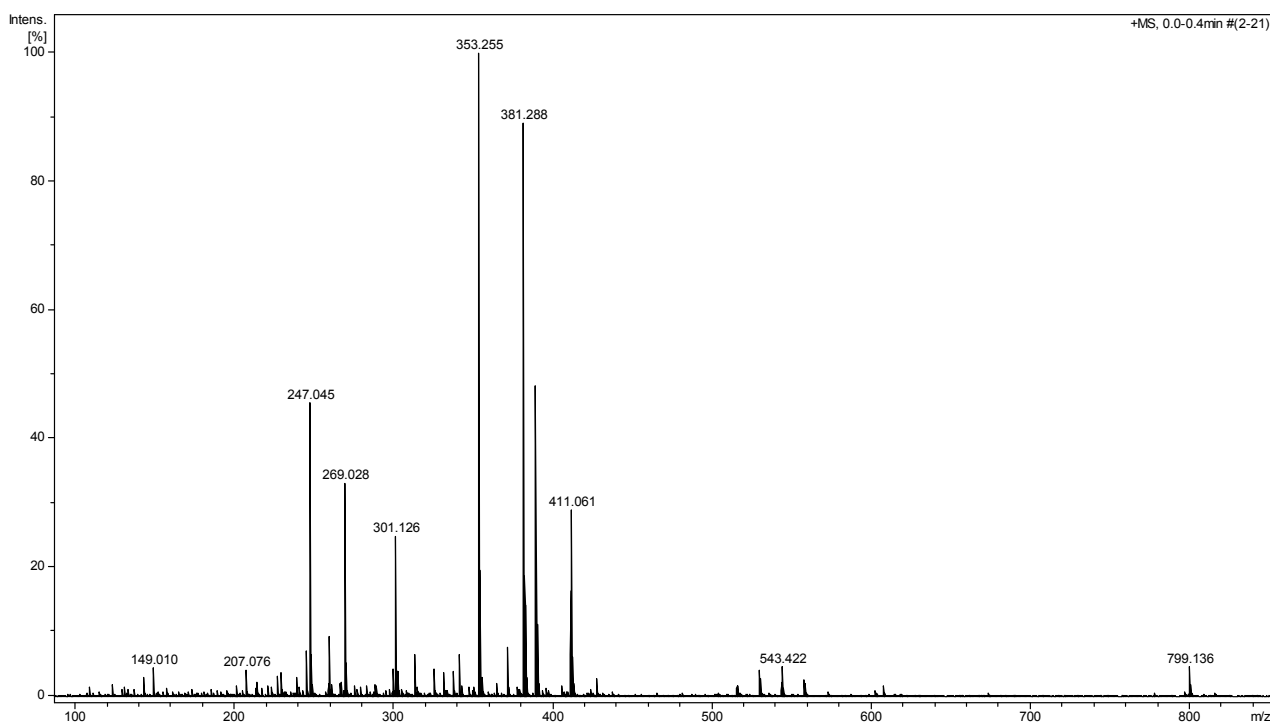


Figure S25A. Experimental data for the peaks $m/z = 389.078$, 411.061 and 427.031 are shown at the top of the panel and compared with the data calculated for the $[(L15)H_3+H]^+$ ($C_{19}H_{17}O_9$), $[(L15)H_3+Na]^+$ ($C_{19}H_{16}O_9Na$) and $[(L15)H_3+K]^+$ ($C_{19}H_{16}O_9K$) (lower panels).

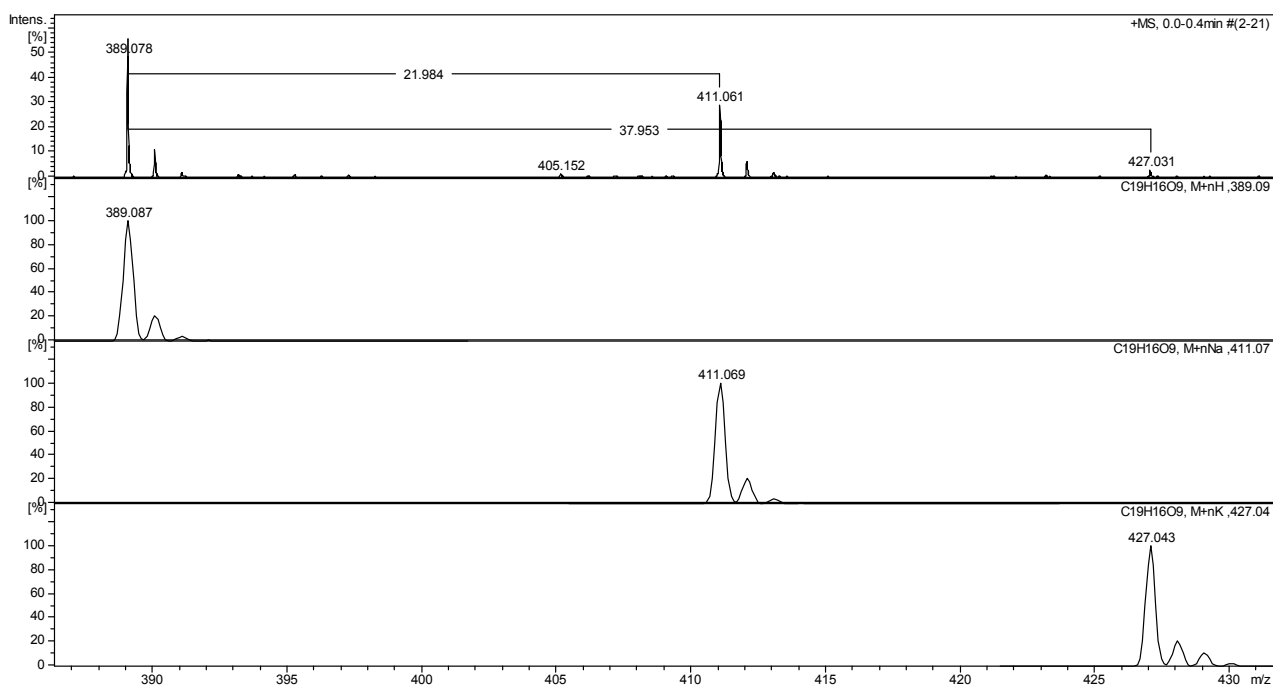


Figure S26. The full spectrum of L15-Cu²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

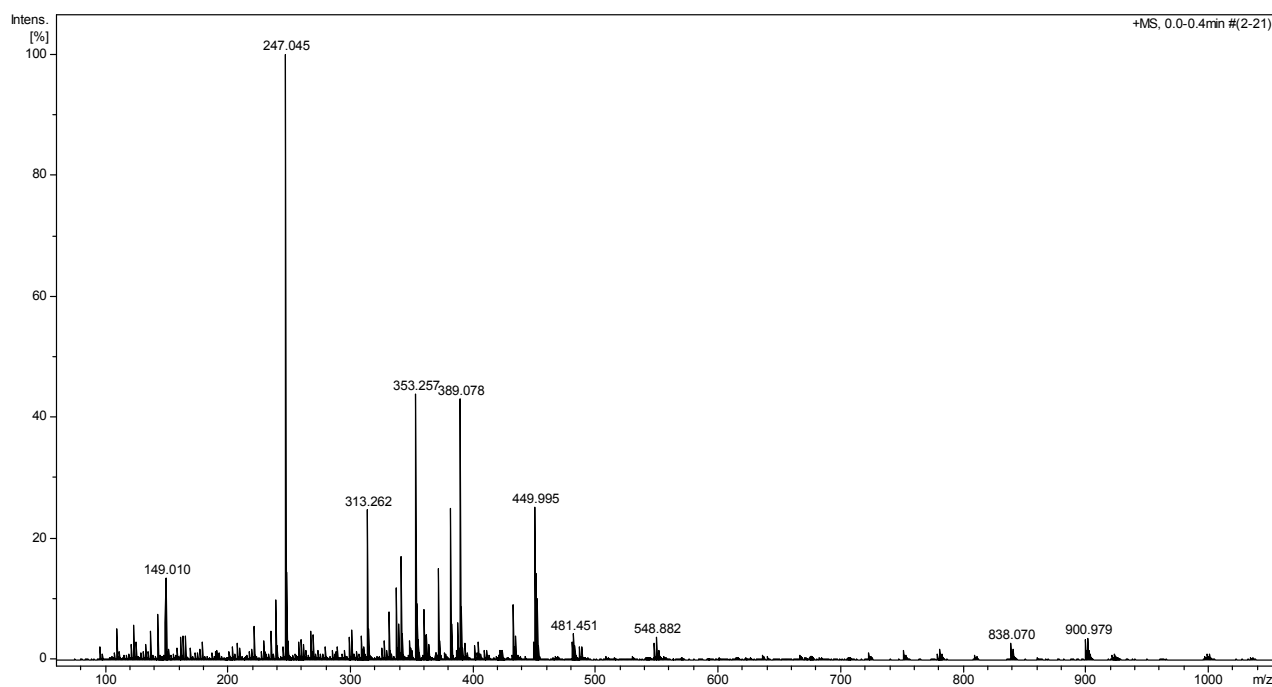


Figure S26A. Experimental data for the peak m/z = 449.995 are shown at the top of the panel and compared with the data calculated for the [Cu(L15)H₂]⁺ (C₁₉H₁₅CuO₉) and [Cu₂(L15)₂H₄]²⁺ (C₃₈H₃₀Cu₂O₁₈) (lower panels).

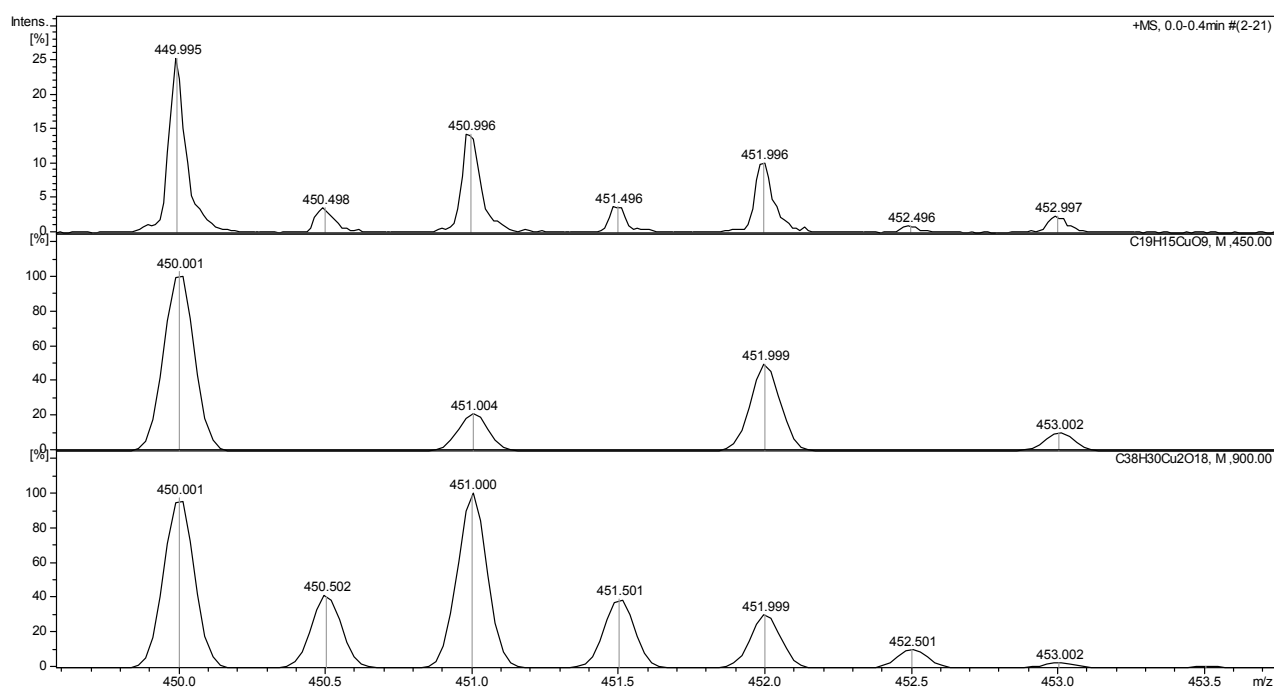


Figure S26B. Experimental data for the peaks $m/z = 898.983$ and 920.976 are shown at the top of the panel and compared with the data calculated for the $[\text{Cu}_2(\text{L15})_2\text{H}_3]^+$ ($\text{C}_{38}\text{H}_{29}\text{Cu}_2\text{O}_{18}$) and $[\text{Cu}_2(\text{L15})_2\text{H}_2+\text{Na}]^+$ ($\text{C}_{38}\text{H}_{28}\text{Cu}_2\text{O}_{18}\text{Na}$) complexes (lower panels).

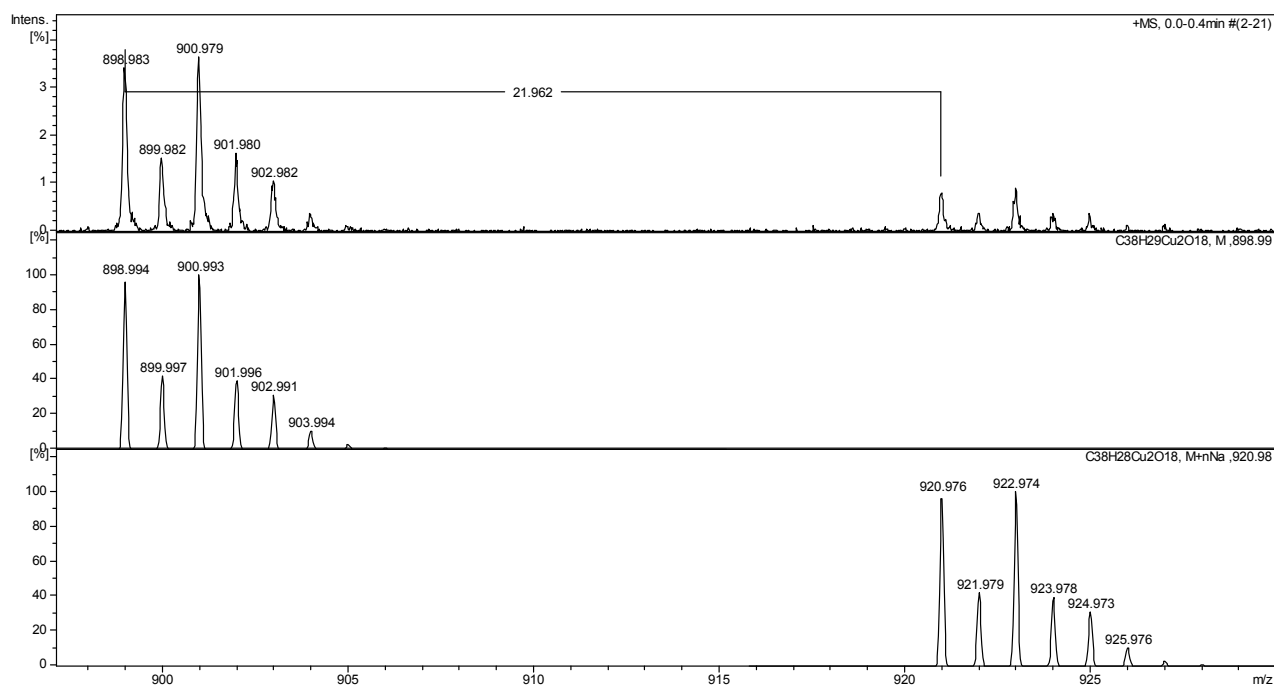


Figure S27. The full spectrum of L15-Fe³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

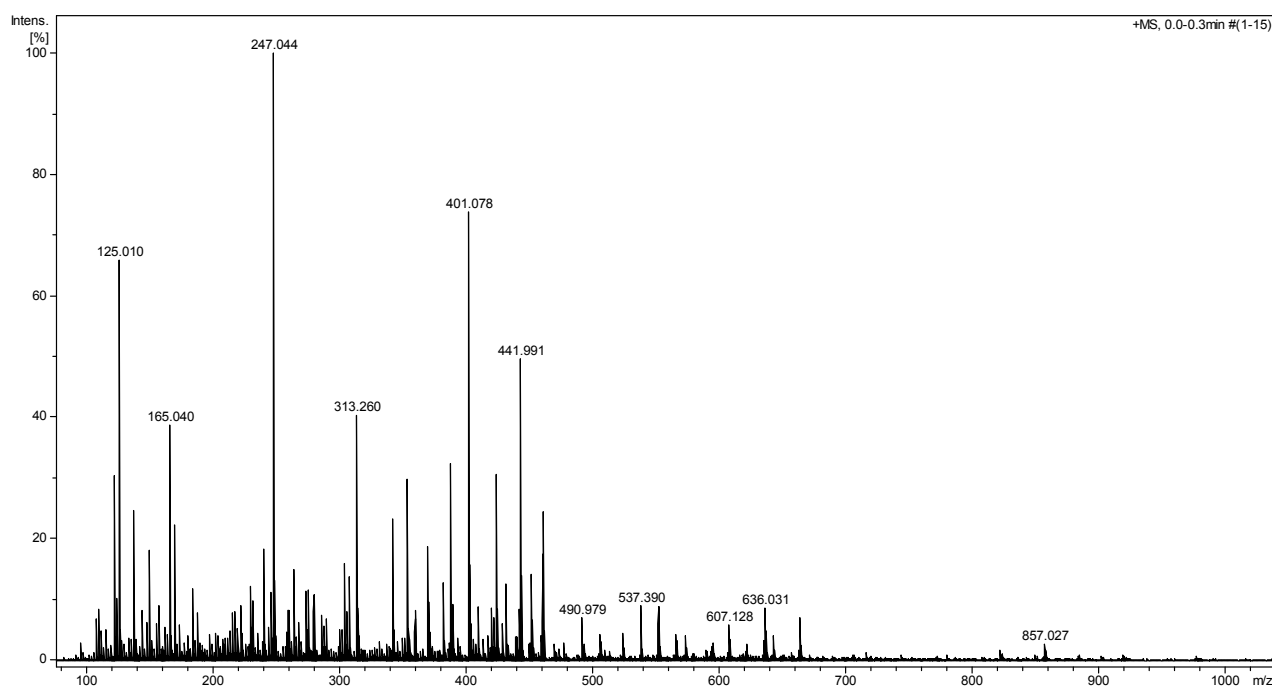


Figure S27A. Experimental data for the peaks m/z = 441.991, 450.998 and 460.004 are shown at the top of the panel and compared with the data calculated for the [Fe₂(L15)₂H₂]²⁺ (C₃₈H₂₈Fe₂O₁₈), [Fe₂(L15)₂H₂+H₂O]²⁺ (C₃₈H₃₀Fe₂O₁₉) and [Fe₂(L15)₂H₂+2H₂O]²⁺ (C₃₈H₃₂Fe₂O₂₀) (lower panels).

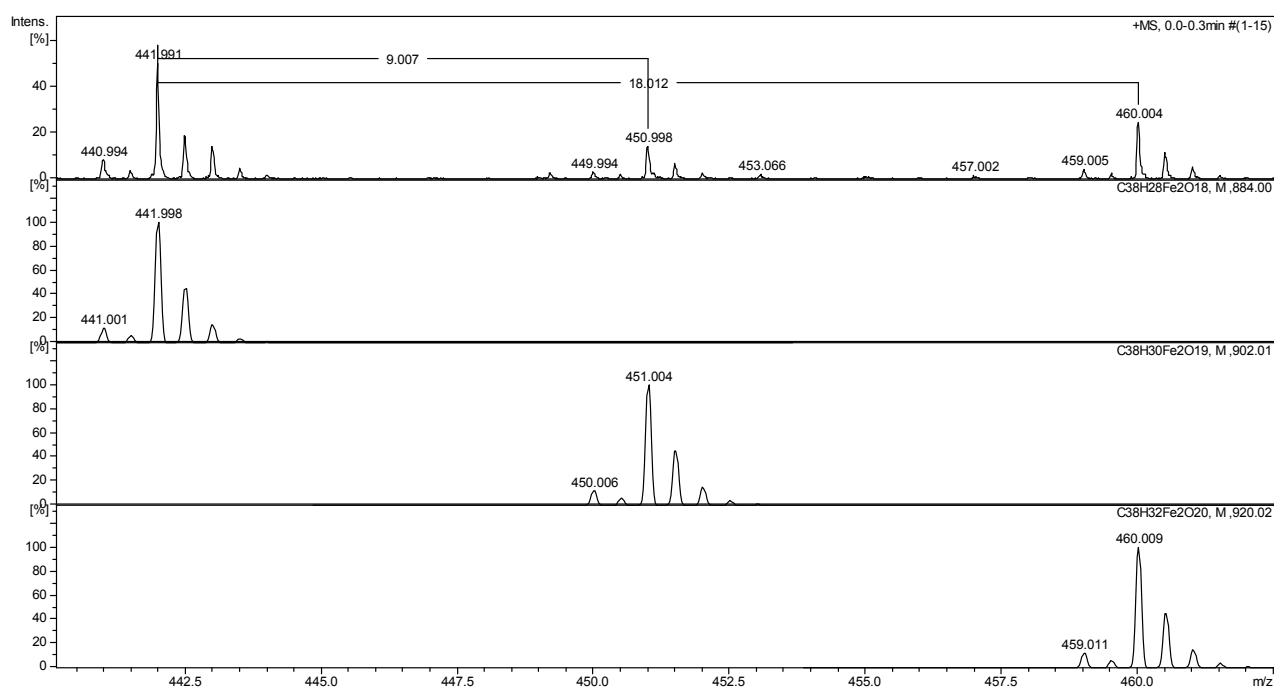


Figure S28. The full spectrum of L15-Zn²⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

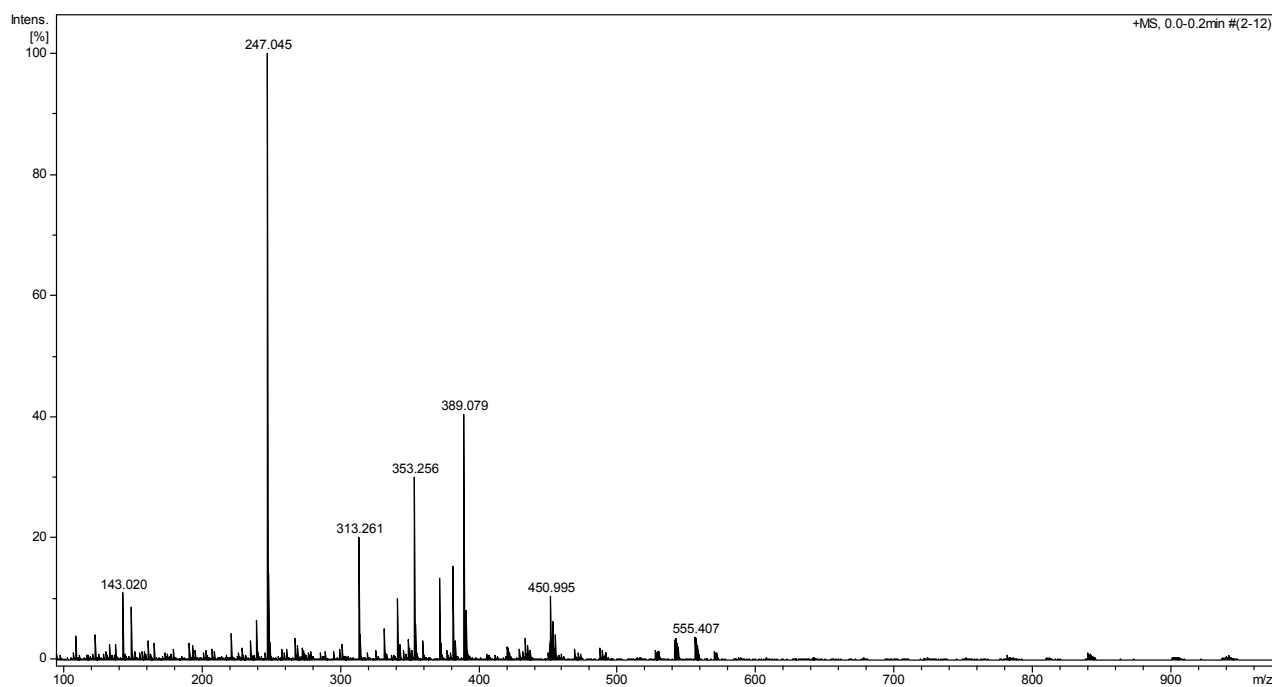


Figure S28A. Experimental data for the peak m/z = 450.995 are shown at the top of the panel and compared with the data calculated for the [Zn(L15)H₂]⁺ (C₁₉H₁₅O₉Zn) and [Zn₂(L15)₂H₄]²⁺ (C₃₈H₃₀Zn₂O₁₈) complexes (lower panels).

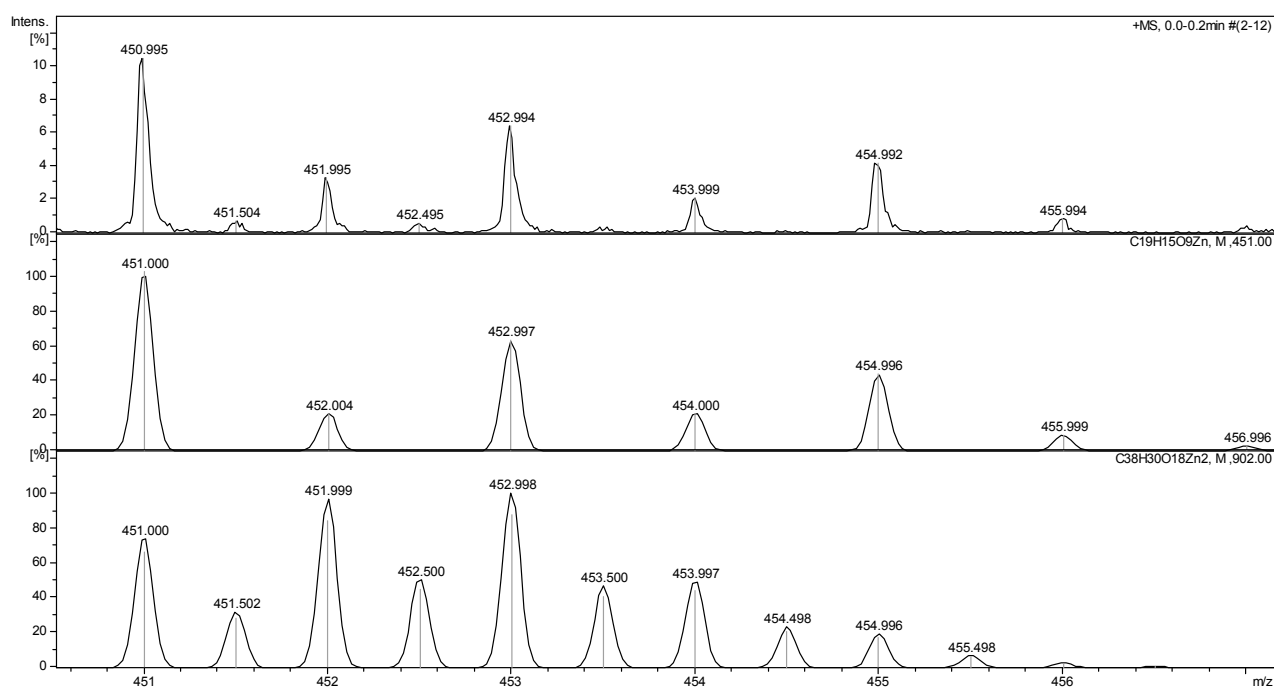


Figure S28B. Experimental data for the peaks $m/z = 469.006$ and 486.977 are shown at the top of the panel and compared with the data calculated for the $[\text{Zn}(\text{L15})\text{H}_2+\text{H}_2\text{O}]^+$ ($\text{C}_{19}\text{H}_{17}\text{O}_{10}\text{Zn}$) and $[\text{Zn}(\text{L15})\text{H}_2+2\text{H}_2\text{O}]^+$ ($\text{C}_{19}\text{H}_{19}\text{O}_{11}\text{Zn}$) complexes (lower panels).

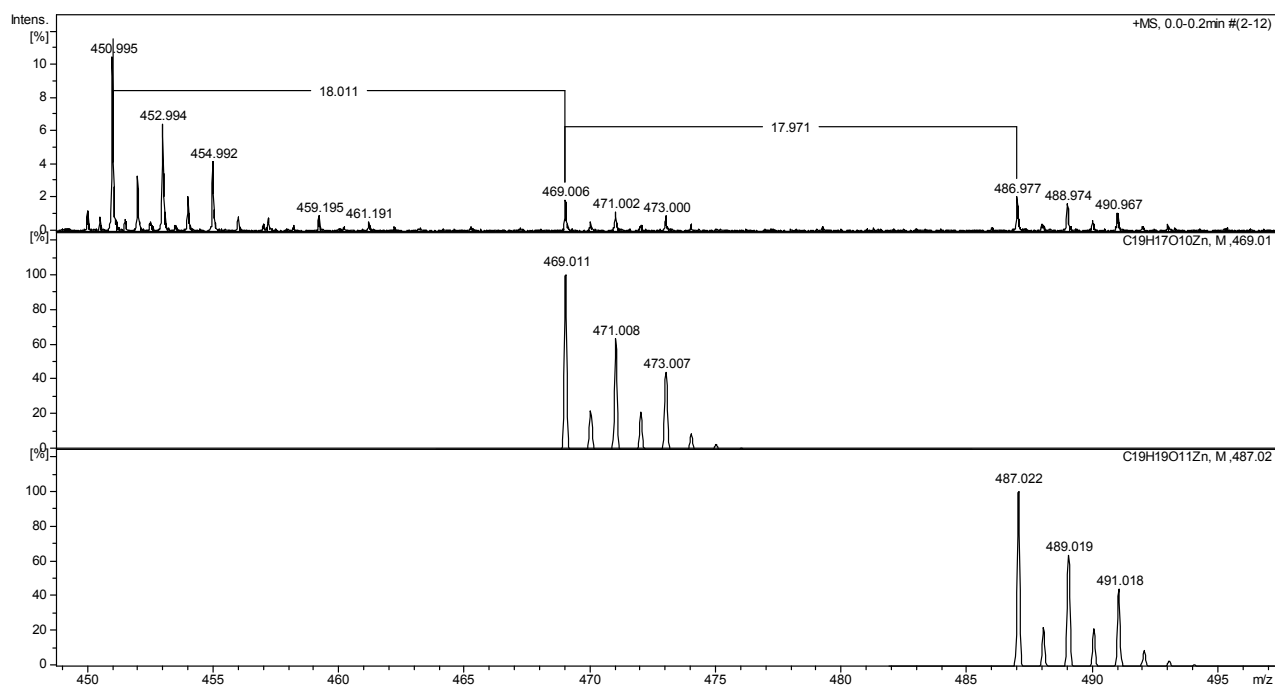


Figure S29. The full spectrum of L15-Al³⁺ solution in the 1:1 metal-to-ligand molar ratio in positive mode.

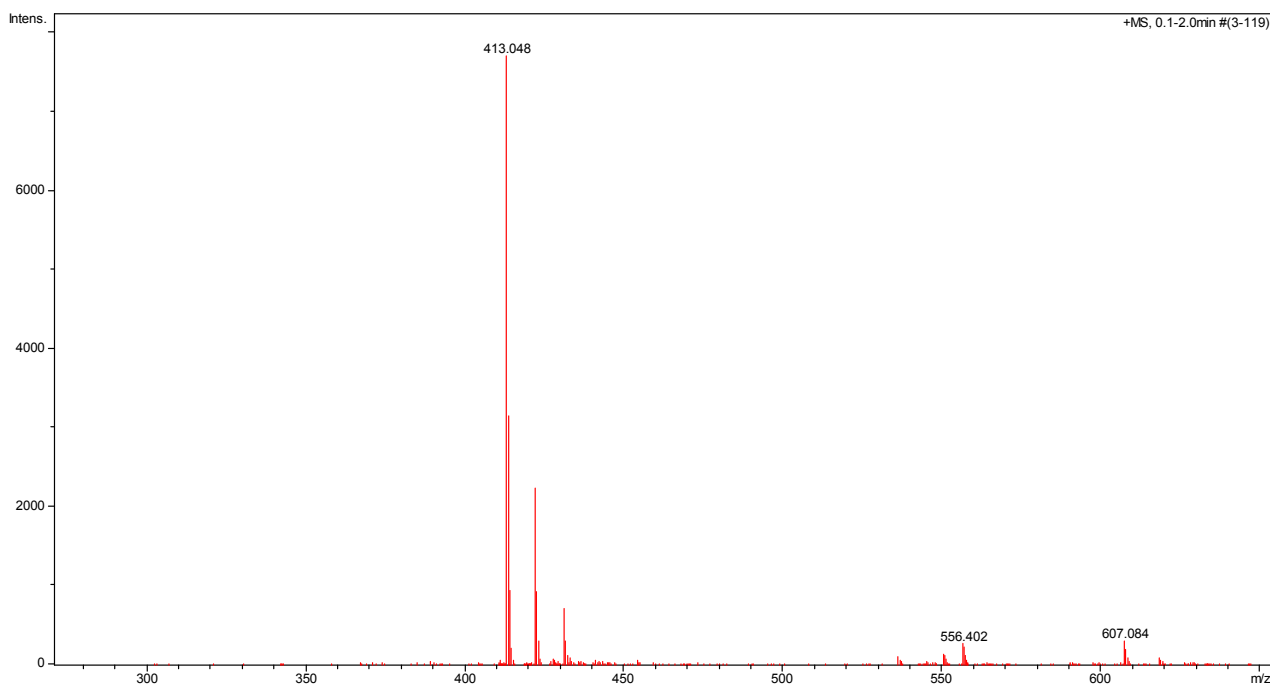


Figure S29A. Experimental data for the peaks m/z = 413.048, 422.054 and 431.057 are shown at the top of the panel and compared with the data calculated for the [Al₂(L15)₂H₂]²⁺ (C₃₈H₂₈Al₂O₁₈), [Al₂(L15)₂H₂+H₂O]²⁺ (C₃₈H₃₀Al₂O₁₉) and [Al₂(L15)₂H₂+2H₂O]²⁺ (C₃₈H₃₂Al₂O₂₀) complexes (lower panels).

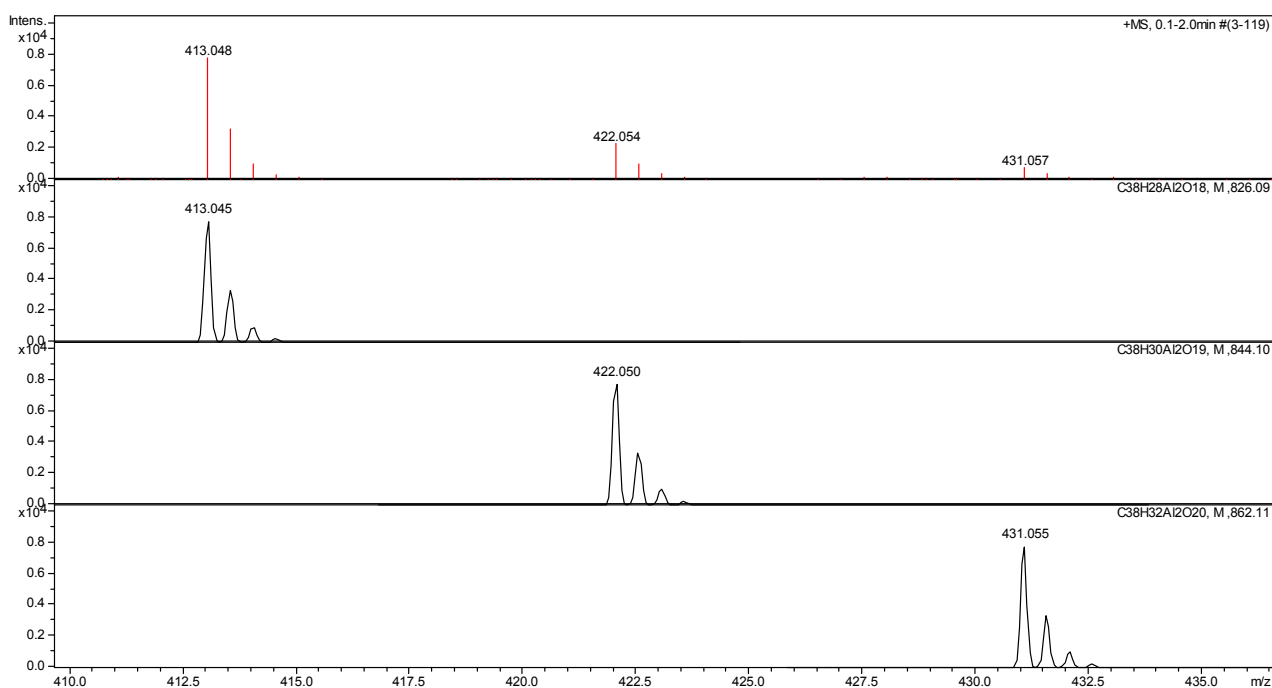
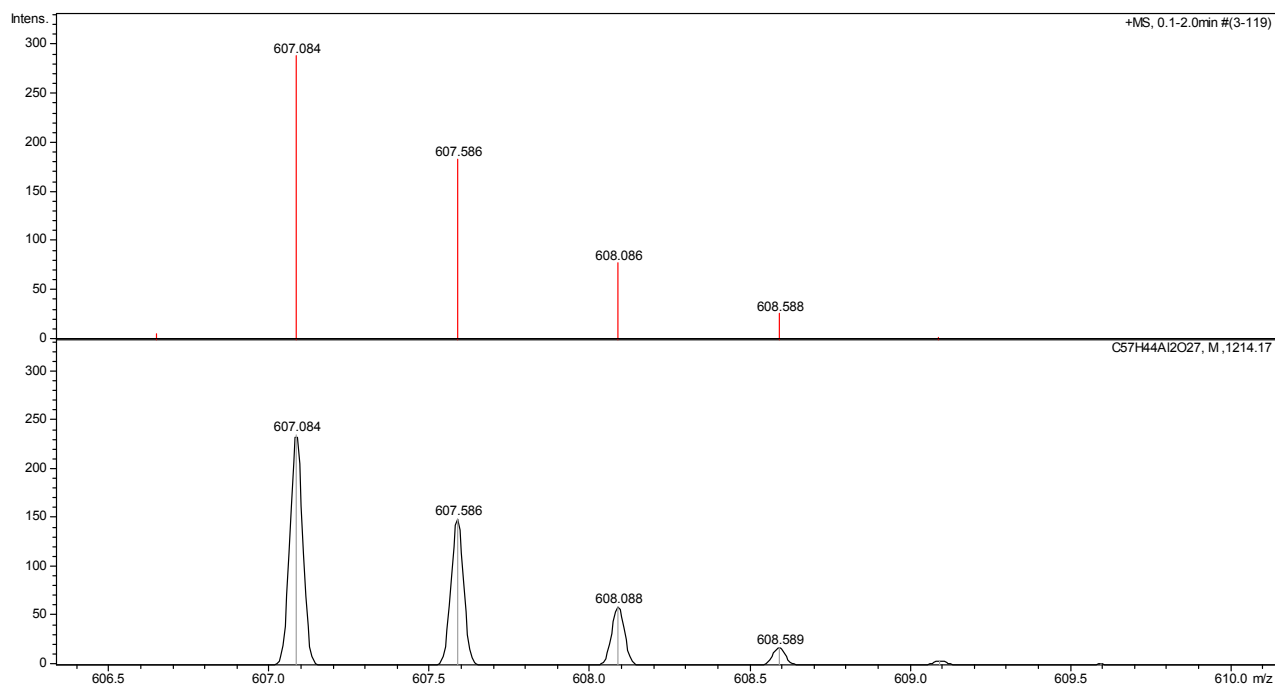
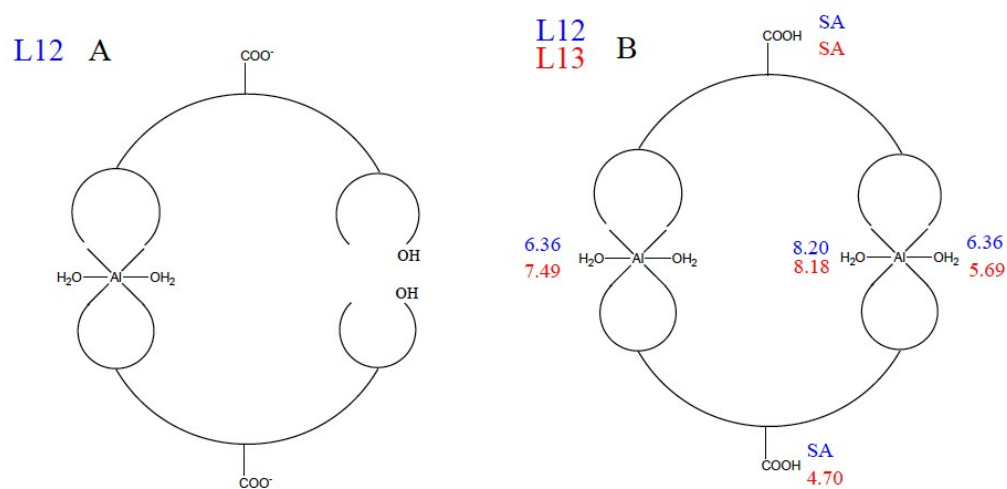
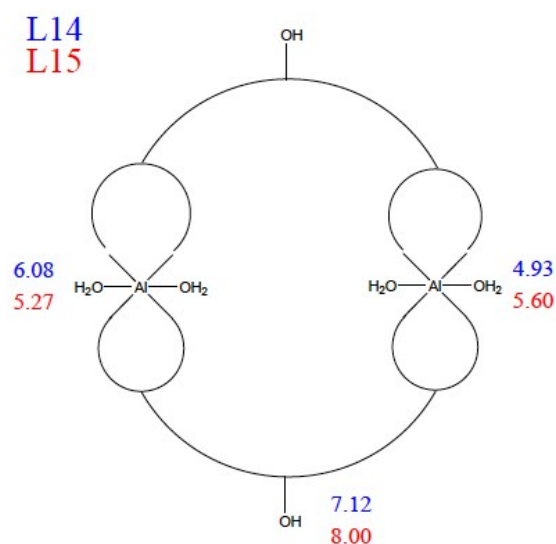


Figure S29B. Experimental data for the peak $m/z = 607.084$ are shown at the top of the panel and compared with the data calculated for the $[\text{Al}_2(\text{L15})_3\text{H}_5]^{2+}$ ($\text{C}_{57}\text{H}_{44}\text{Al}_2\text{O}_{27}$) complex (lower panel).

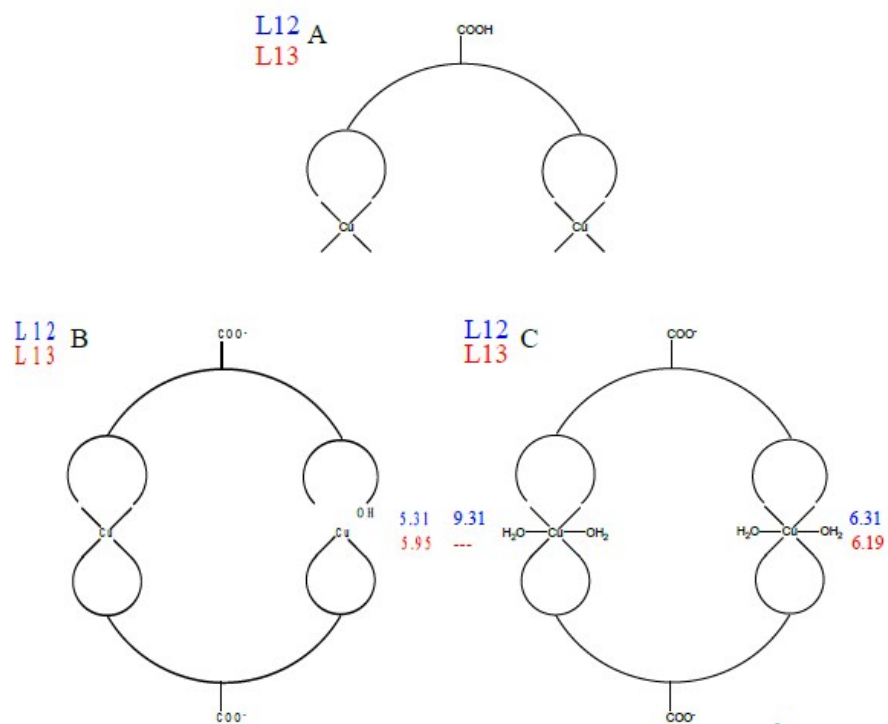




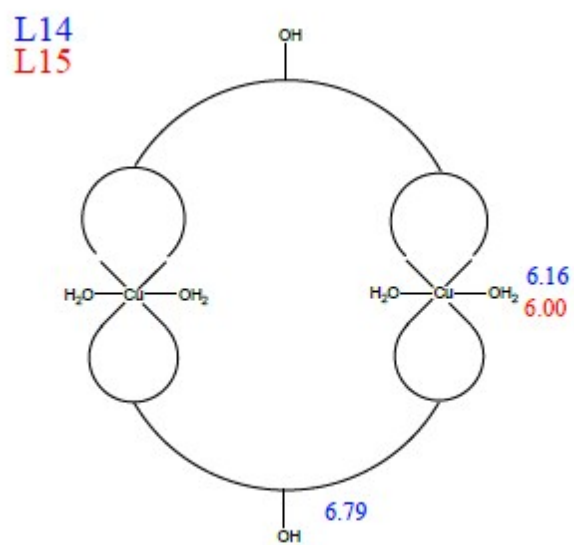
Scheme S1. Hypothesized coordination scheme of L12-L13 ligands with Al^{3+} .



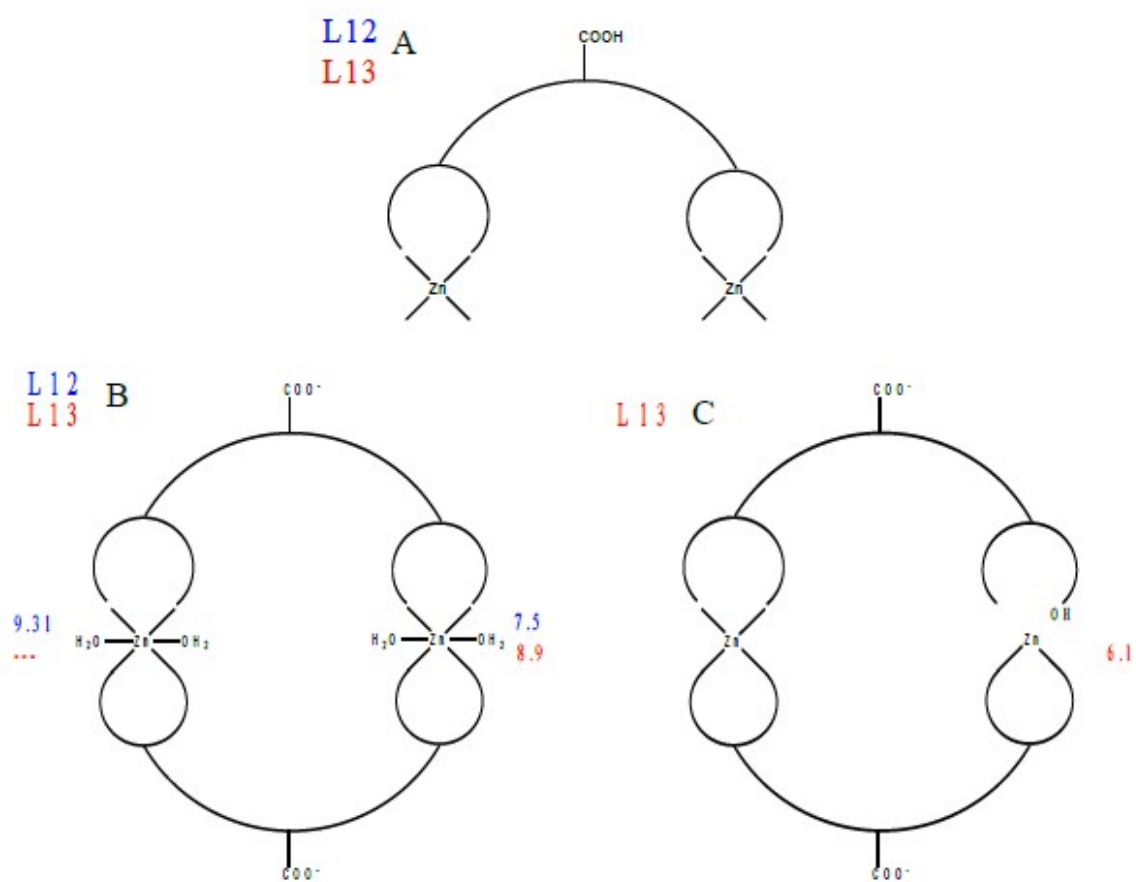
Scheme S2. Hypothesized coordination scheme of L14-L15 ligands with Al³⁺.



Scheme S3. Hypothesized coordination scheme of L12-L13 ligands with Cu²⁺.



Scheme S4. Hypothesized coordination scheme of L14-L15 ligands with Cu²⁺.



Scheme S5. Hypothesized coordination scheme of L12-L13 ligands with Zn^{2+} .

6.5
7.5