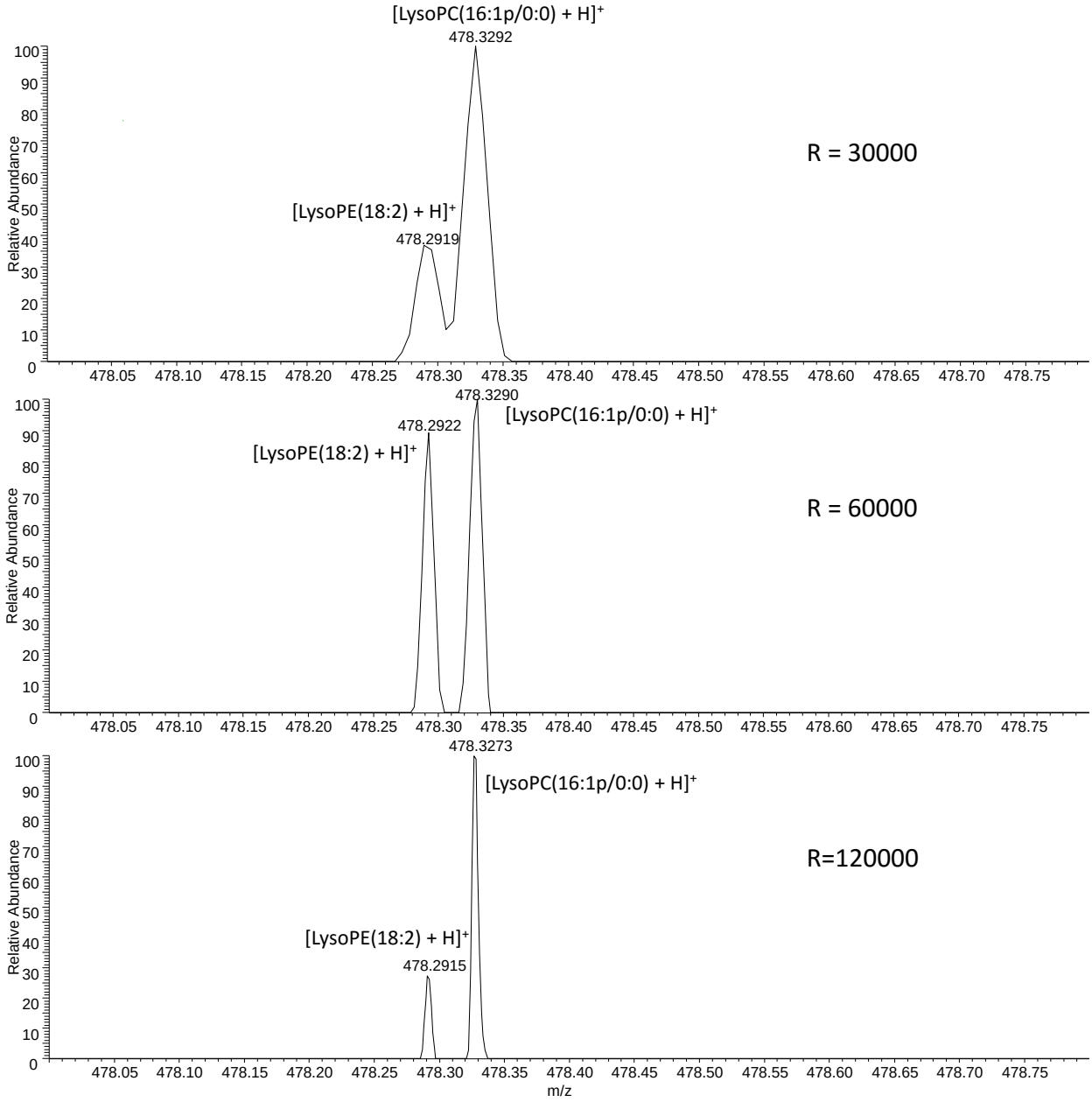
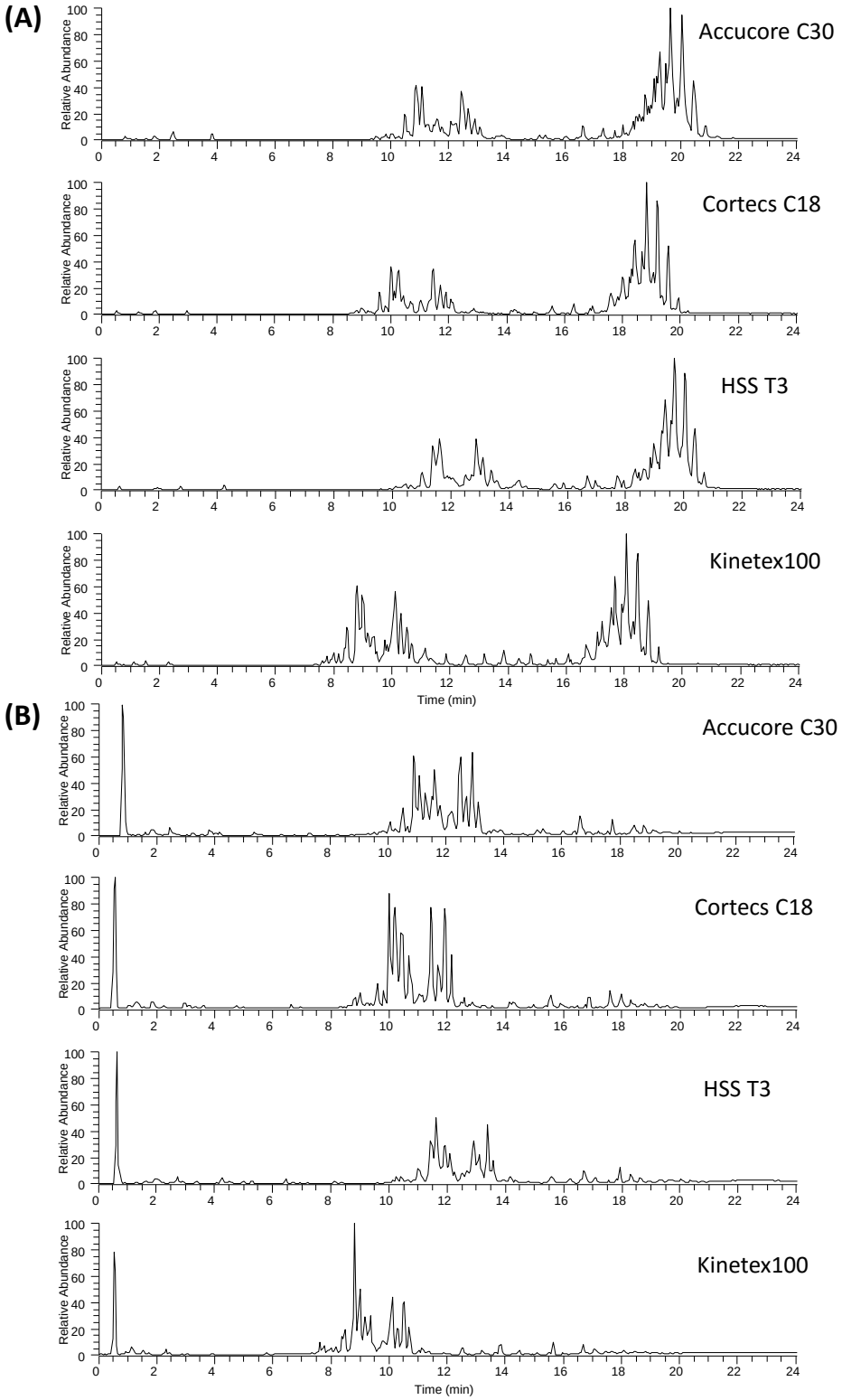
Supplemental Figures for "Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer", by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S1: Effect of mass resolution setting in QEHF on differentiation of isobaric lipids. Data was obtained from separation of rat plasma lipid extract using Accucore C30 column.



Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S2: Total ion chromatograms from positive (A) and negative (B) ion modes of rat liver lipid extract.



Supplemental Figures for "Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer", by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S3: Total ion chromatograms from positive (A) and negative (B) ion modes of rat plasma lipid extract.

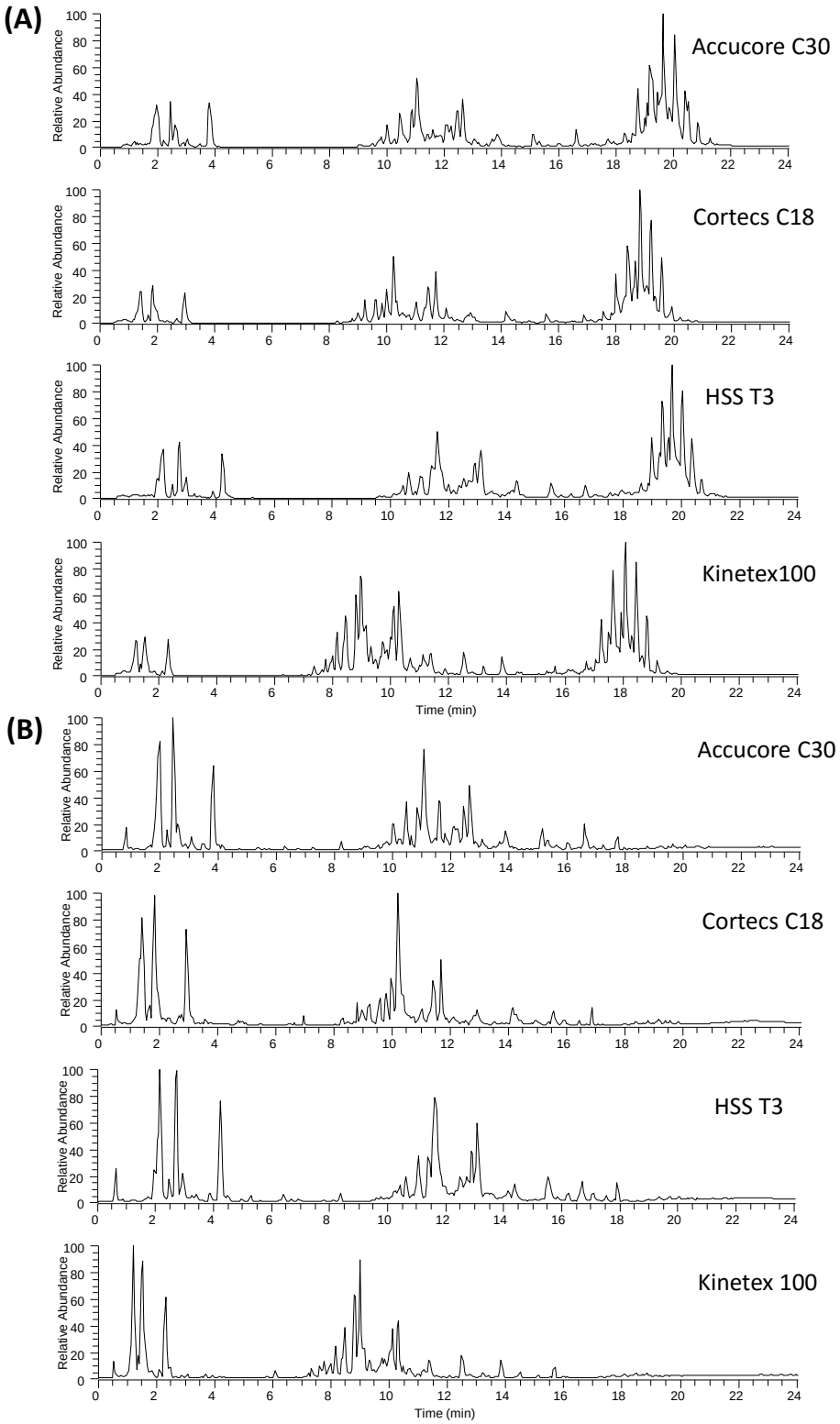


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Figure S4: Example of MS/MS spectrum of a ceramide from a real sample (rat liver) obtained using HCD fragmentation in positive and negative ion modes.

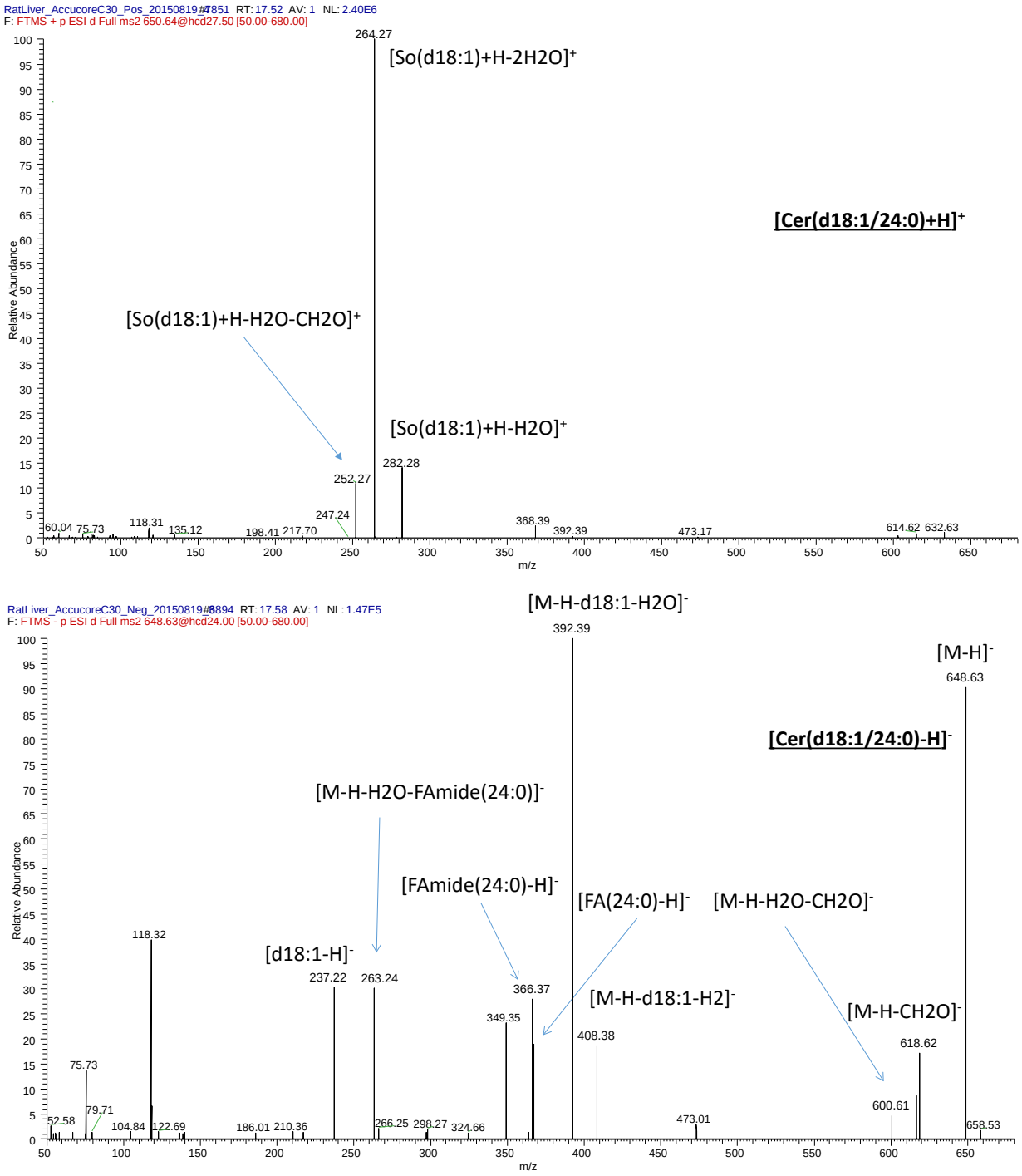

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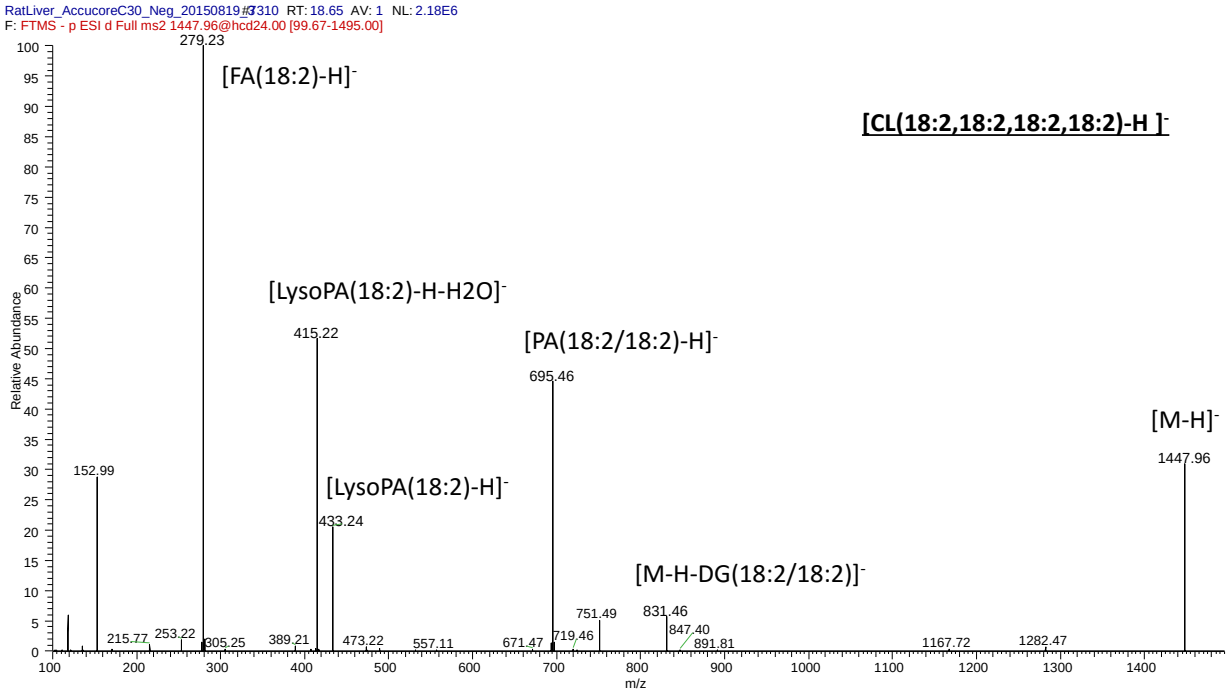
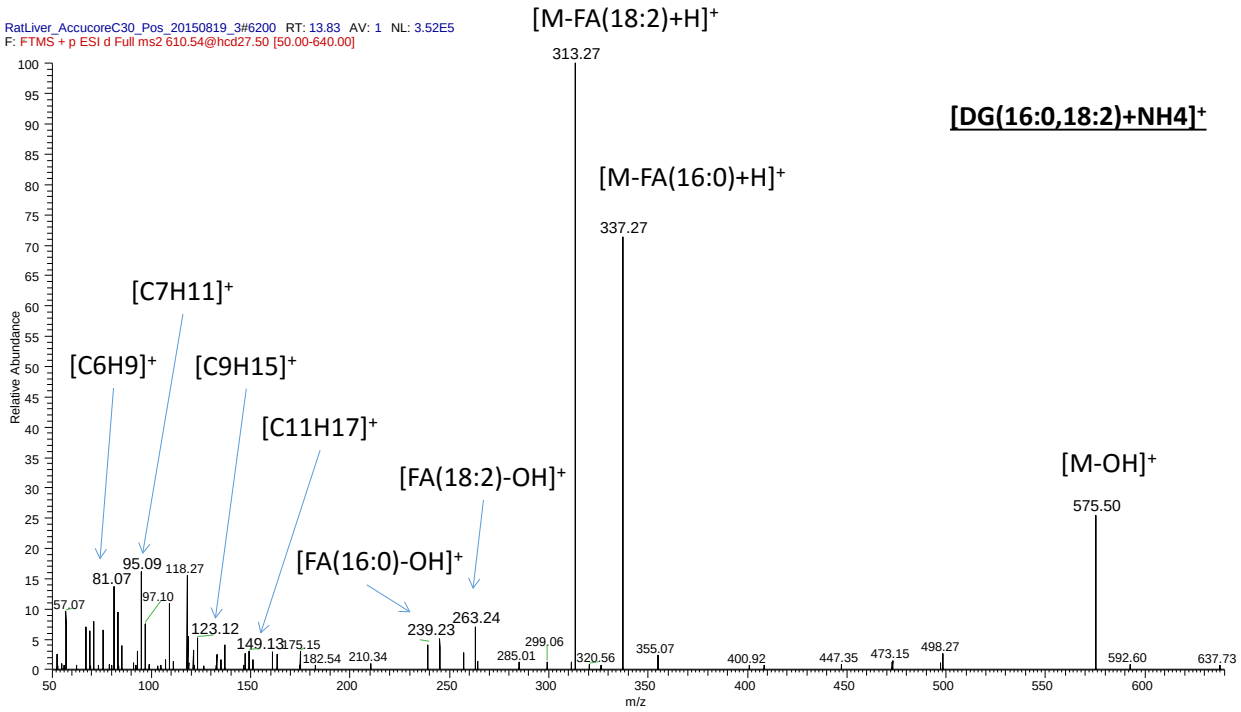
Figure S5: Example of MS/MS spectrum of a cardiolipin from a real sample (rat liver) obtained using HCD fragmentation in negative ion mode.



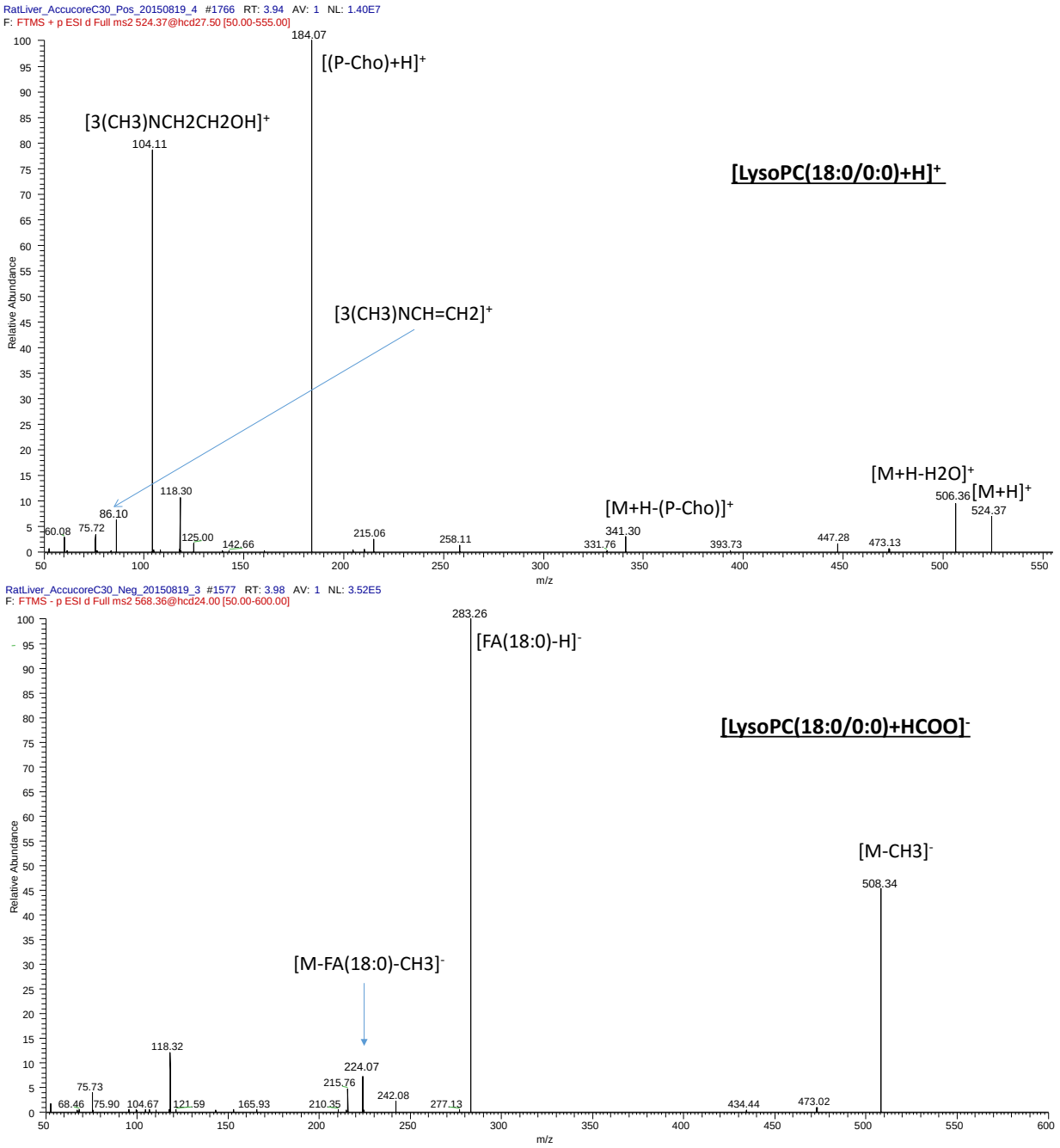
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S6: Example of MS/MS spectrum of a diacylglycerol from a real sample (rat liver) obtained using HCD fragmentation in positive ion mode.



Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S7: Example of MS/MS spectrum of a lysophosphatidylcholine from a real sample (rat liver) obtained using HCD fragmentation in positive and negative ion modes.



Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S8: Example of MS/MS spectrum of a lysophosphatidylethanolamine from a real sample (rat plasma) obtained using HCD fragmentation in positive and negative ion modes.

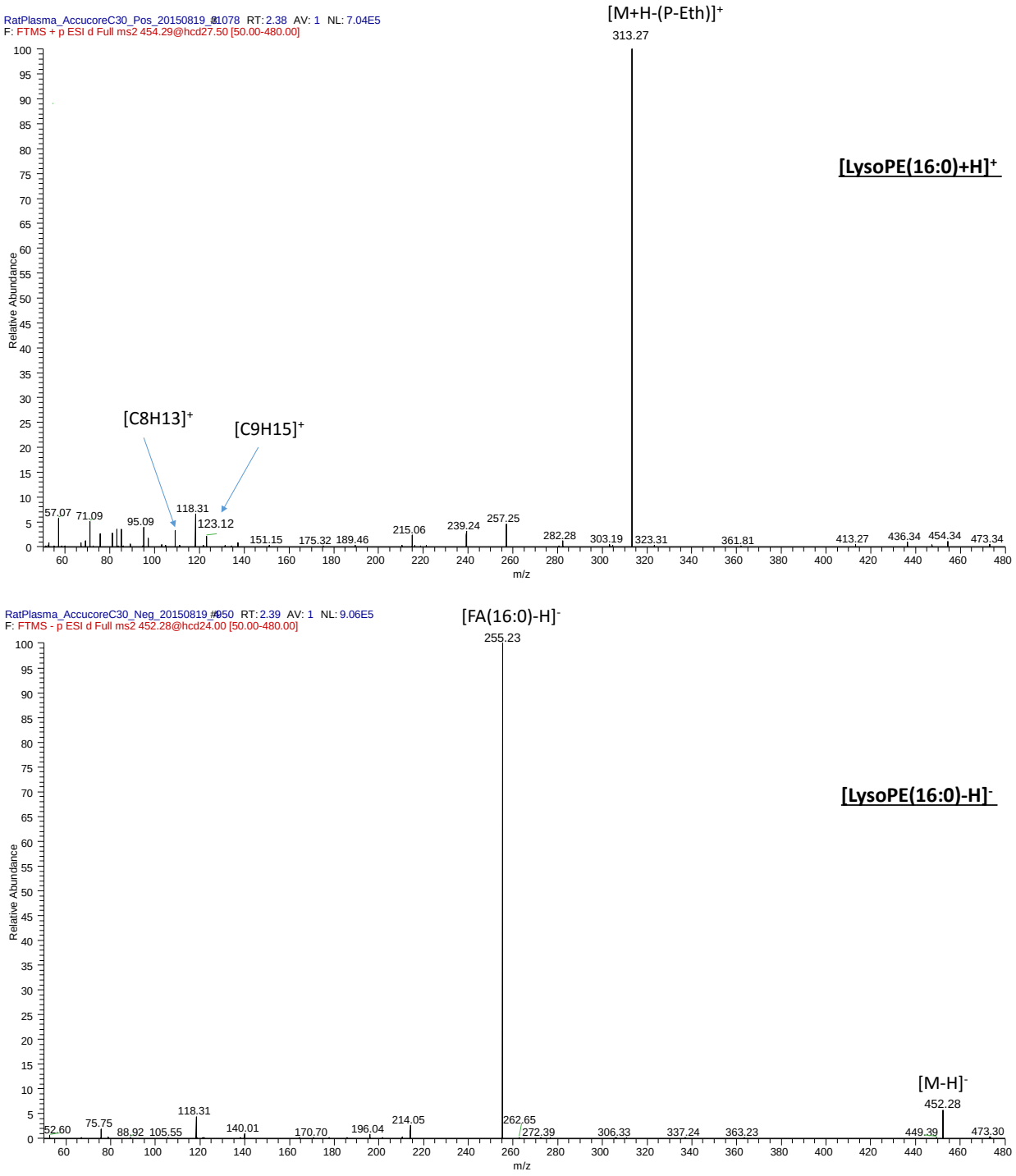


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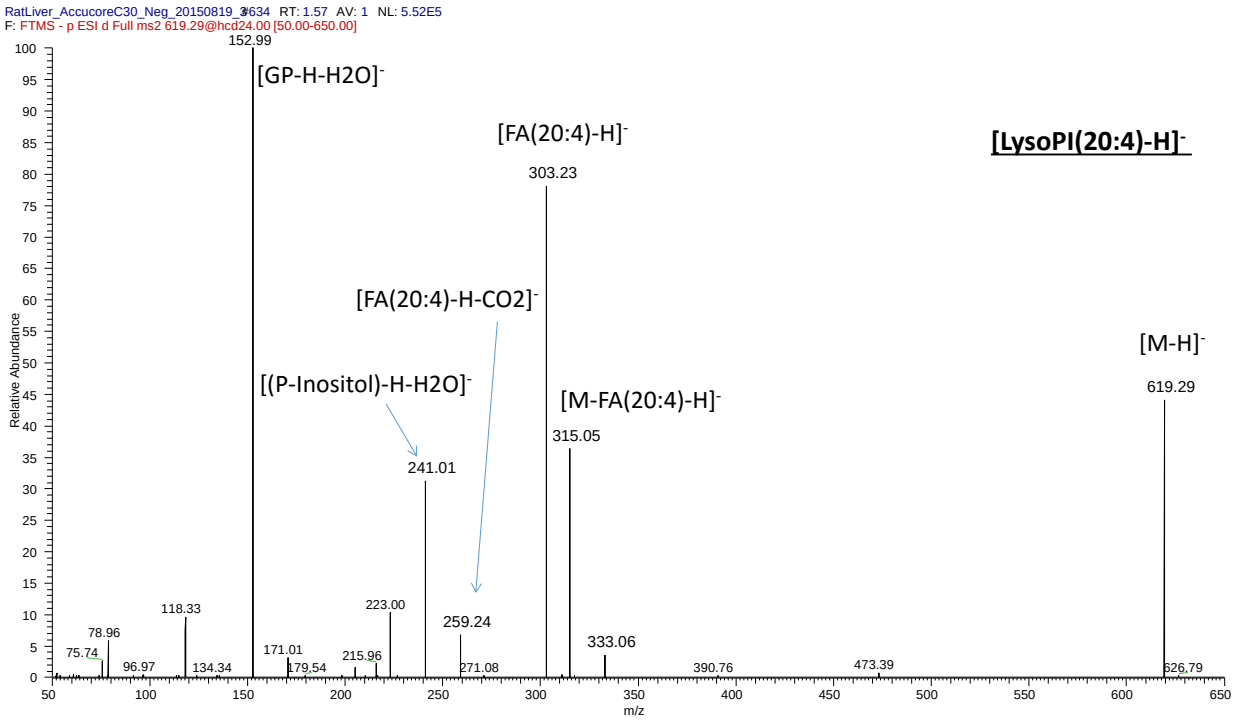
Figure S9: Example of MS/MS spectrum of a lysophosphatidylinositol from a real sample (rat liver) obtained using HCD fragmentation in negative ion mode.



GP: glycerol phosphate

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Figure S10: Example of MS/MS spectrum of a lysophosphatidylglycerol from a real sample (rat liver) obtained using HCD fragmentation in negative mode.

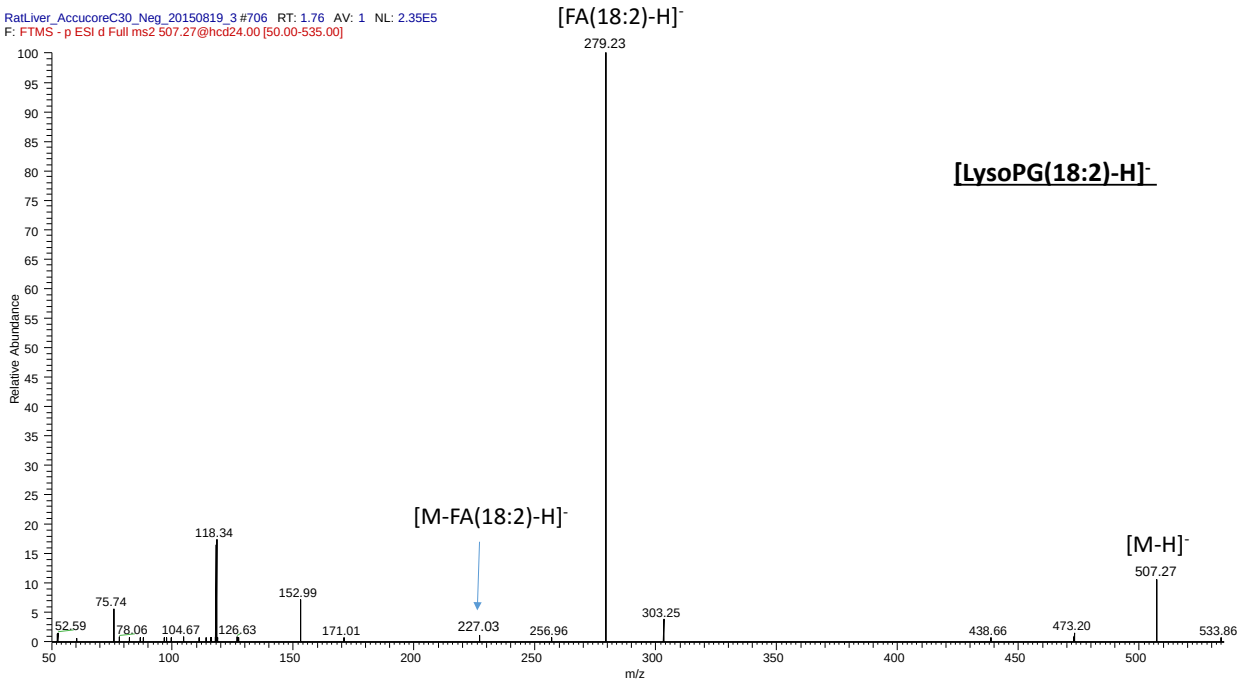

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Figure S11: Example of MS/MS spectrum of a lysophosphatidylserine from a real sample (rat liver) obtained using HCD fragmentation in positive ion mode.

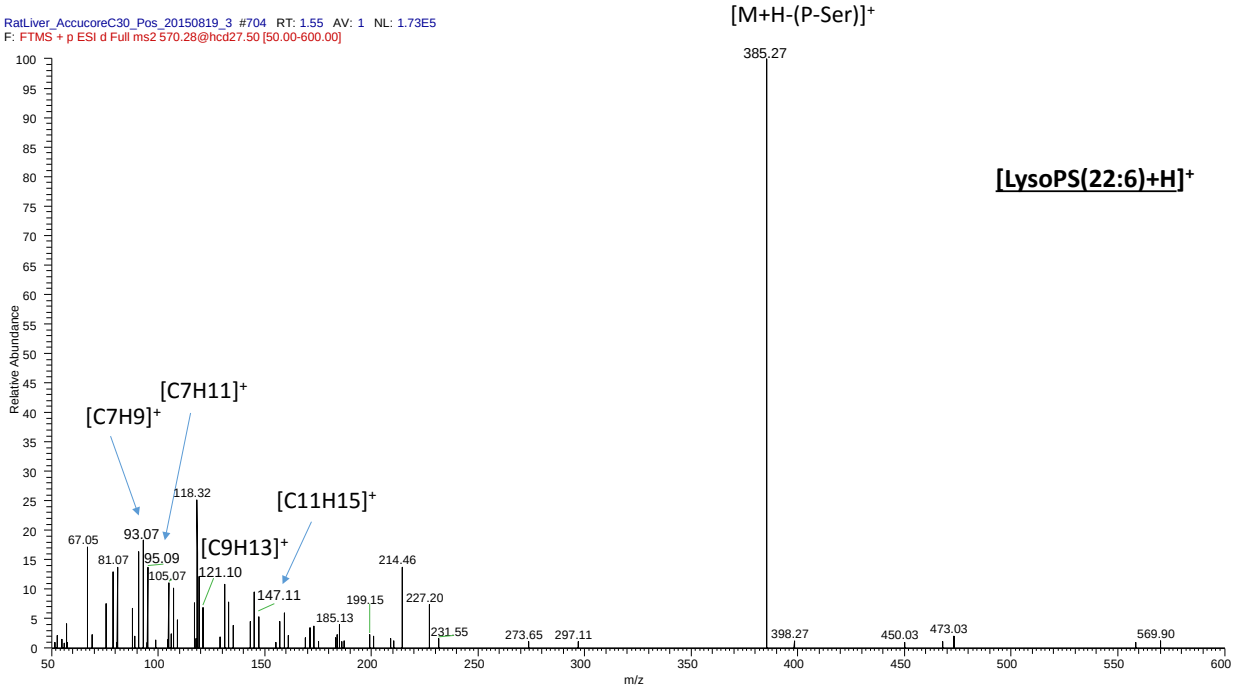

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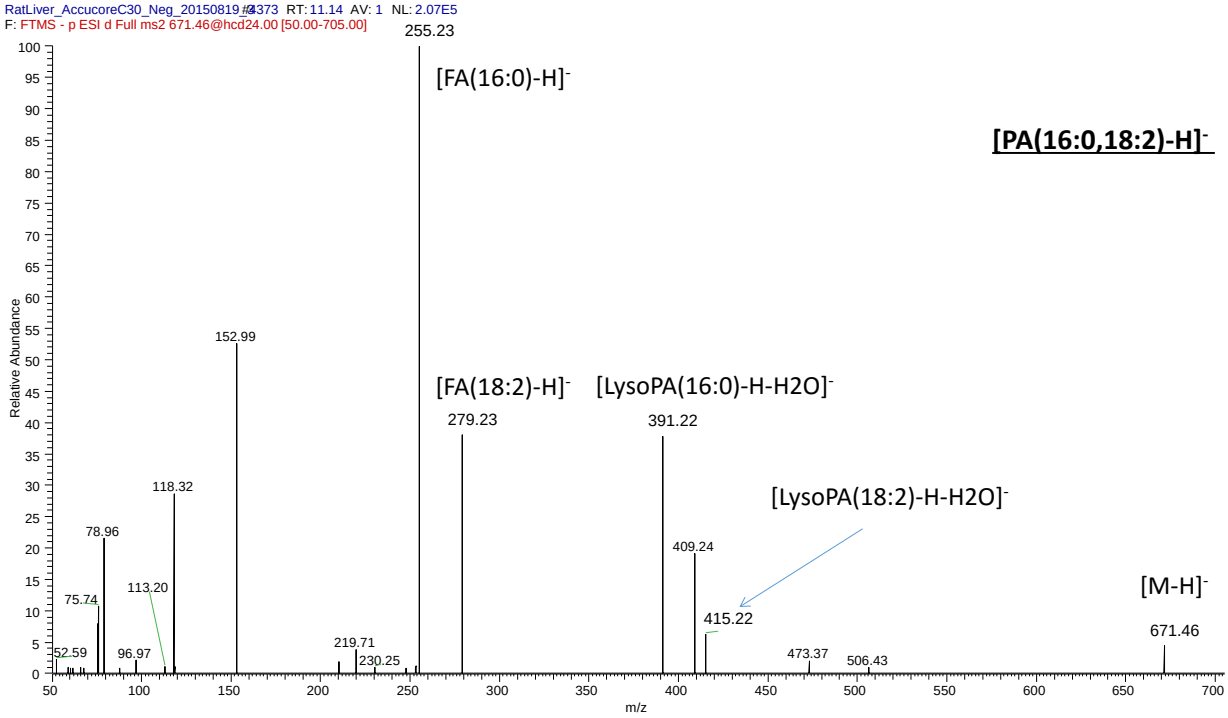
Figure S12: Example of MS/MS spectrum of a phosphatidic acid from a real sample (rat liver) obtained using HCD fragmentation in negative mode.



Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S13: Example of MS/MS spectrum of a phosphatidylcholine from a real sample (rat plasma) obtained using HCD fragmentation in positive and negative ion modes.

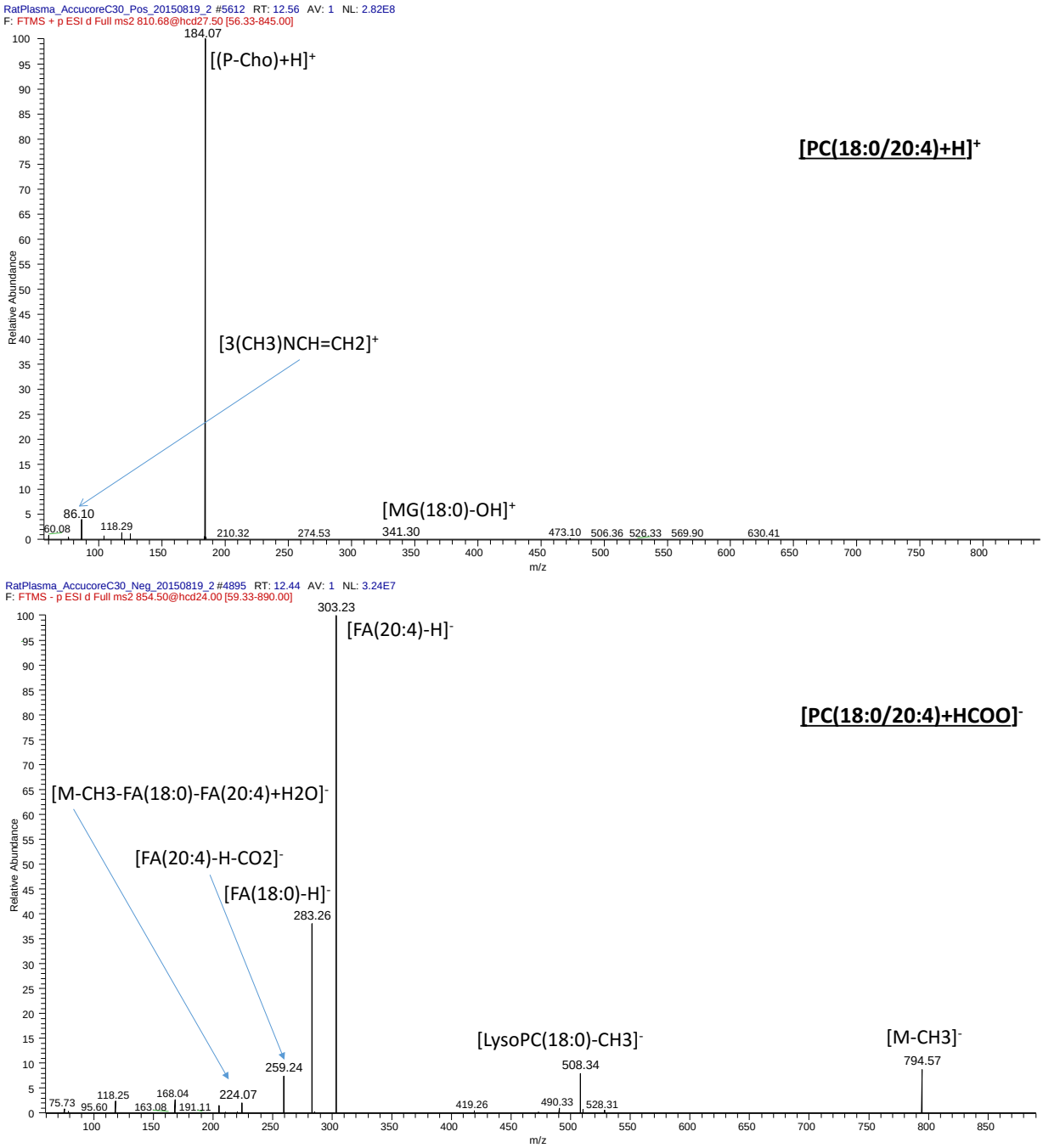


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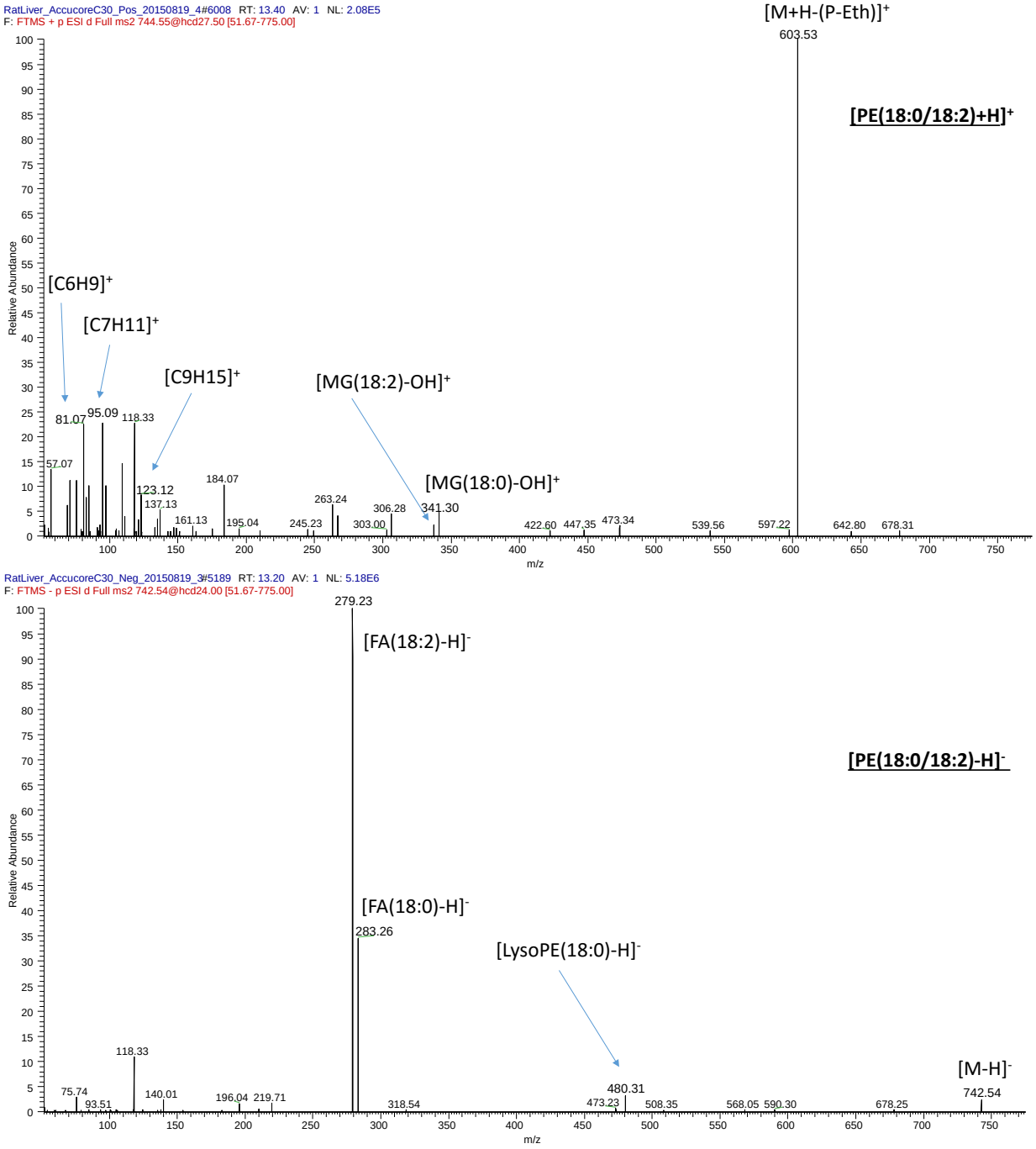
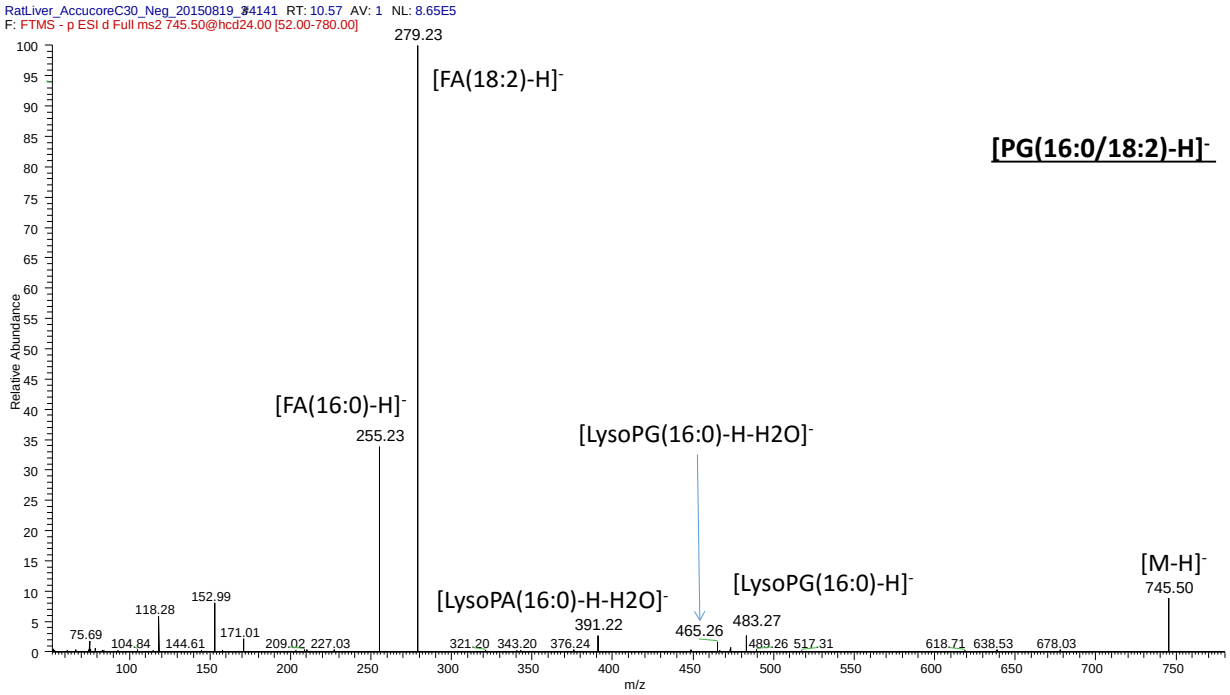
Figure S14: Example of MS/MS spectrum of a phosphatidylethanolamine from a real sample (rat liver) obtained using HCD fragmentation in positive and negative ion modes.



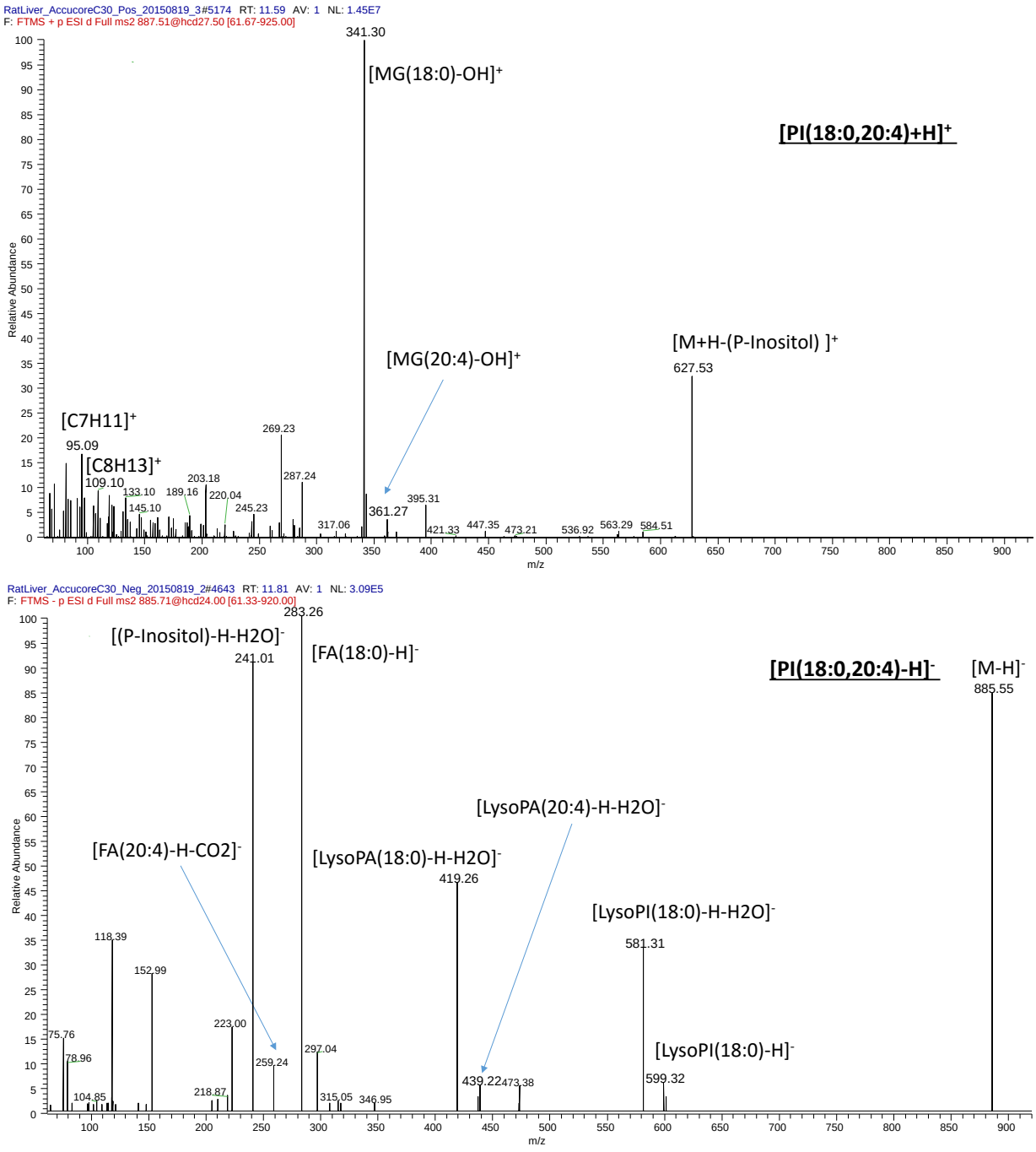
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S15: Example of MS/MS spectrum of a phosphatidylglycerol from a real sample (rat liver) obtained using HCD fragmentation in negative ion mode.



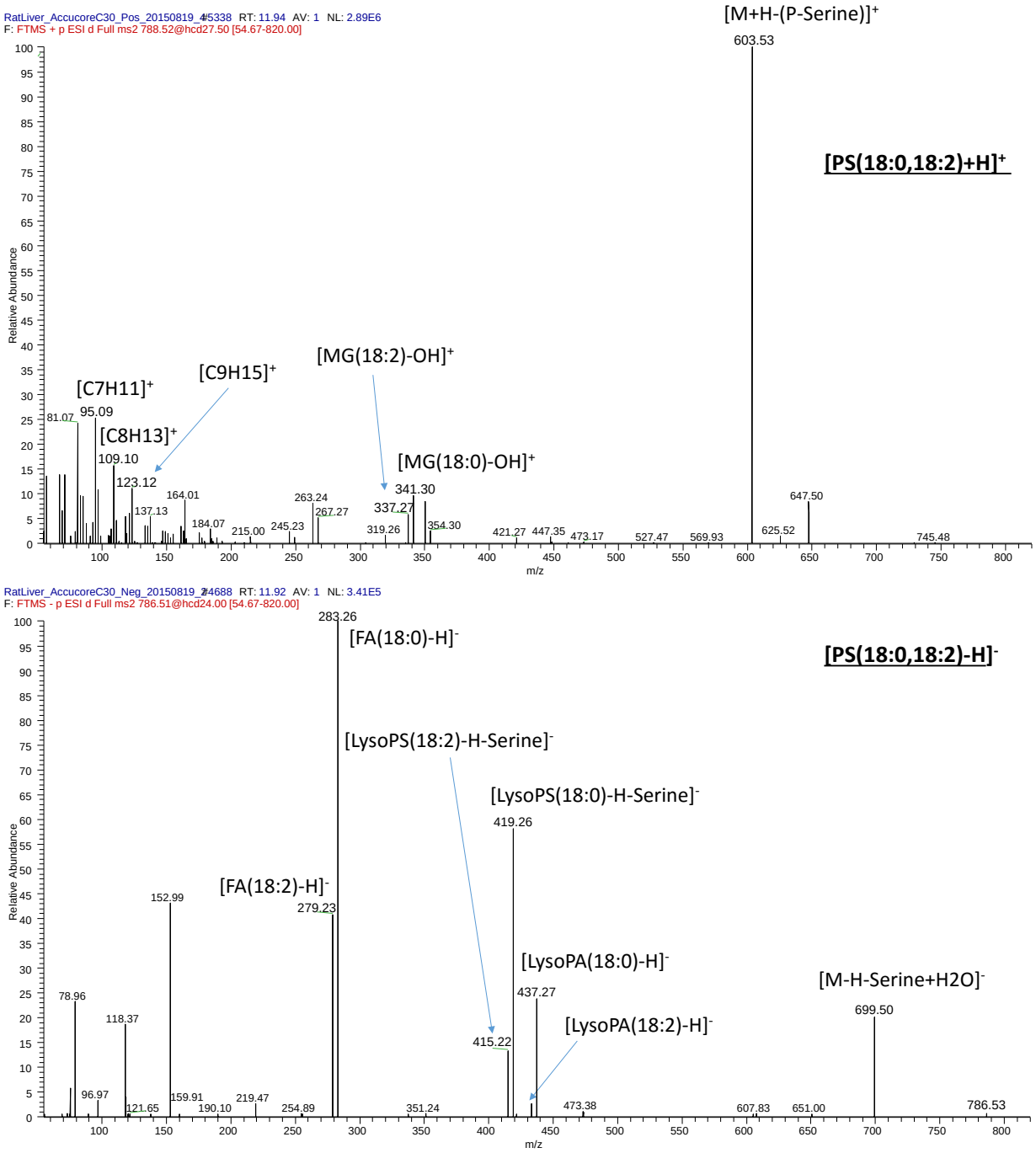
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S16: Example of MS/MS spectrum of a phosphatidylinositol from a real sample (rat liver) obtained using HCD fragmentation in positive and negative ion modes.



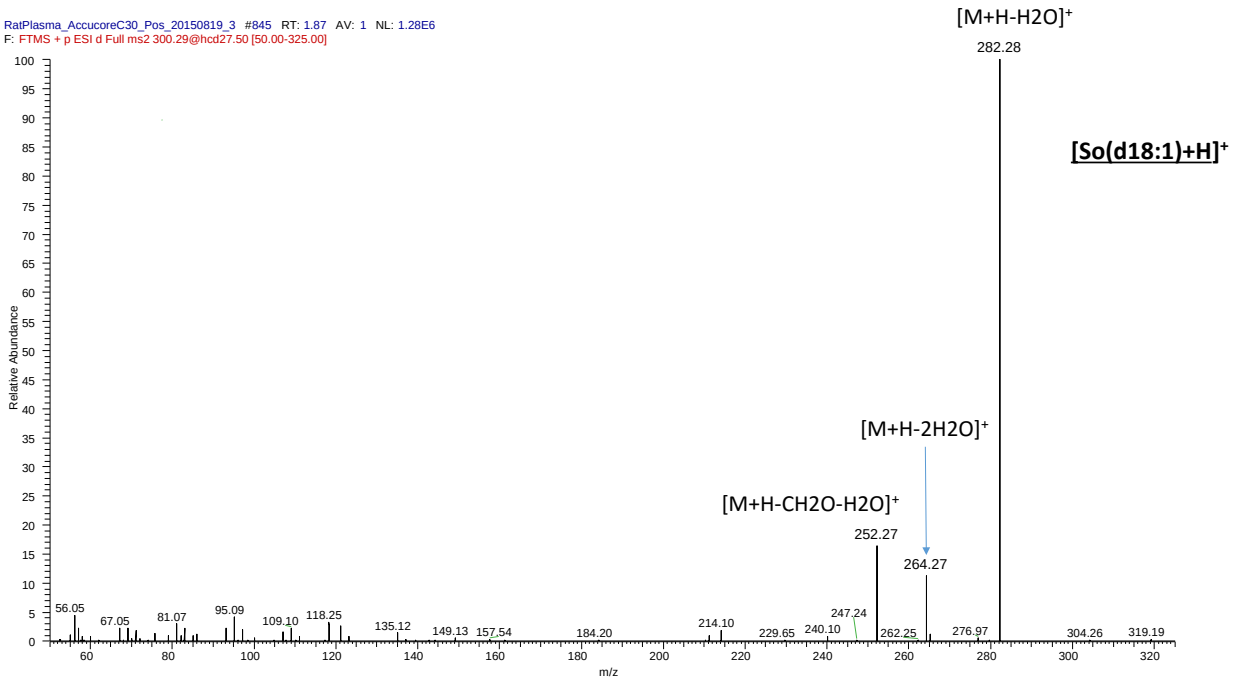
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S17: Example of MS/MS spectrum of a phosphatidylserine from a real sample (rat liver) obtained using HCD fragmentation in positive and negative ion modes.



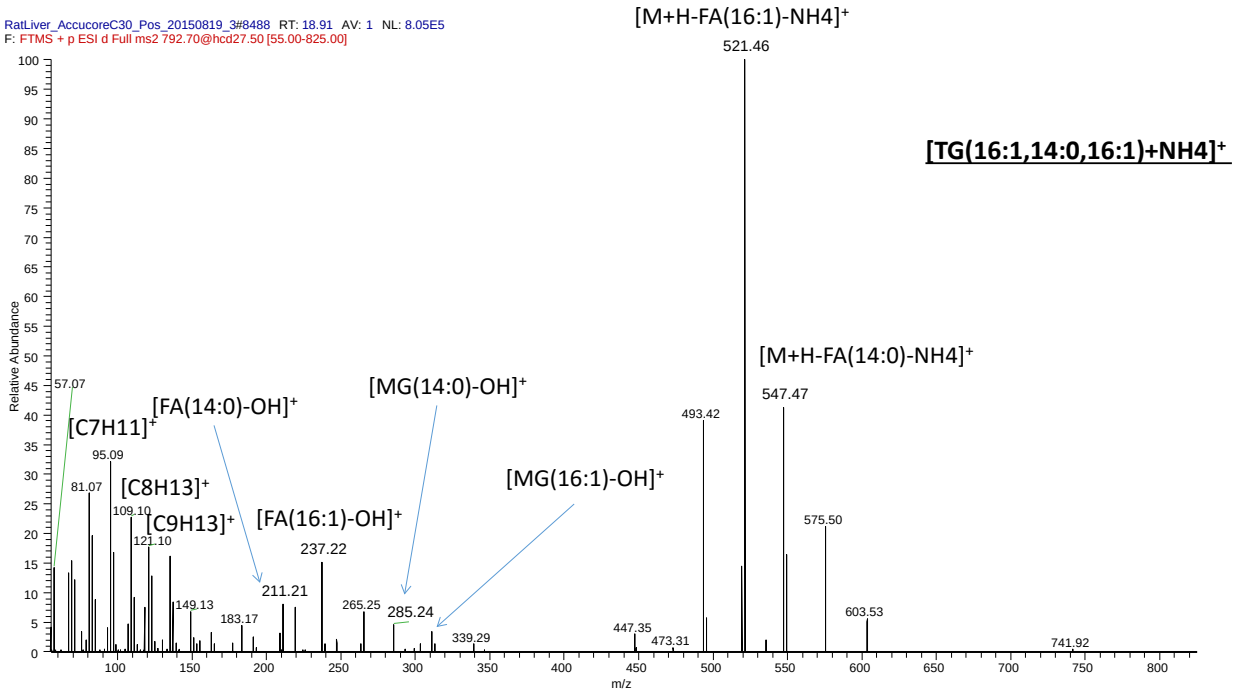
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S18: Example of MS/MS spectrum of a sphingosine (So) from a real sample (rat plasma) obtained using HCD fragmentation in positive ion mode.



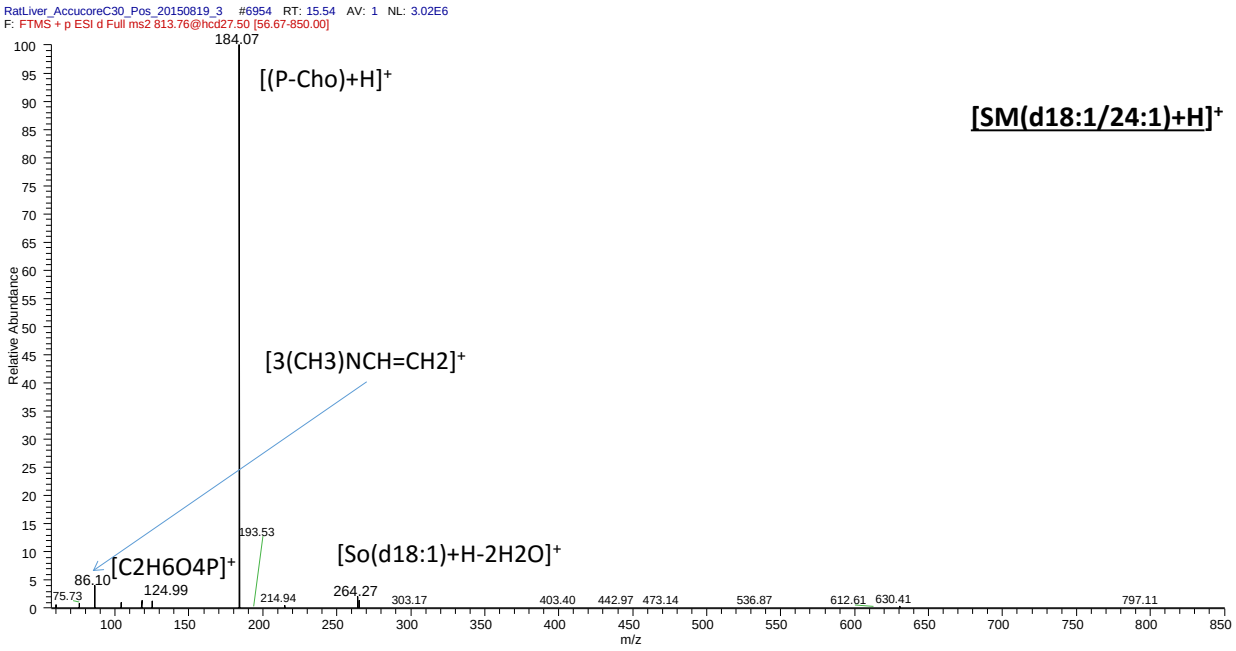
Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S19: Example of MS/MS spectrum of a triacylglycerol from a real sample (rat liver) obtained using HCD fragmentation in positive ion mode.



Supplemental Figures for “Comprehensive untargeted lipidomic analysis using core-shell C30 particle column and high field orbitrap mass spectrometer”, by Mónica Narváez-Rivas and Qibin Zhang, *Journal of Chromatography A.*

Figure S20: Example of MS/MS spectrum of a sphingomyelin from a real sample (rat liver) obtained using HCD fragmentation in positive ion mode.



So: sphingosine