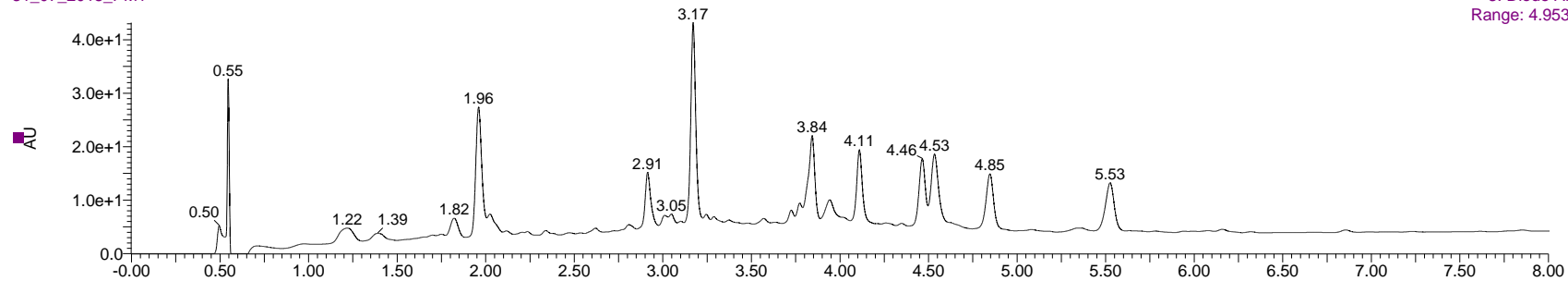
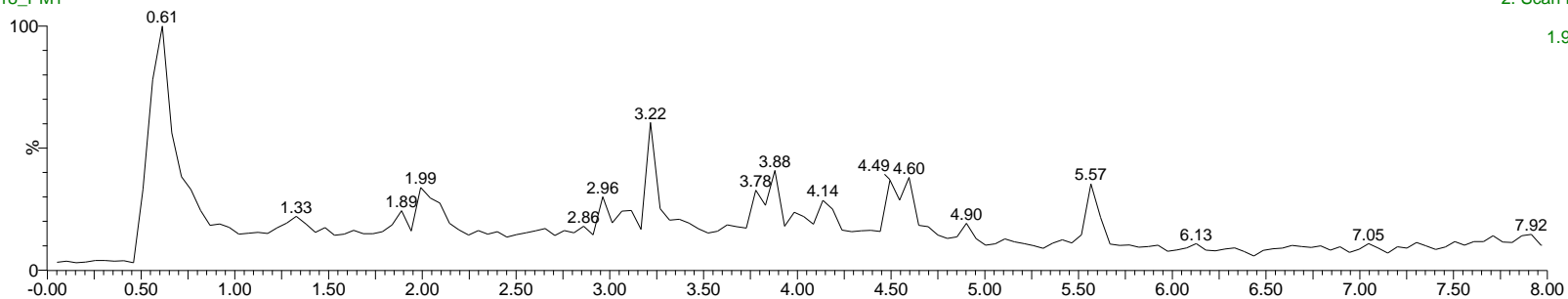


31_07_2018_PM1

3: Diode Array
Range: 4.953e+1

31_07_2018_PM1

2: Scan ES-
TIC
1.98e8

31_07_2018_PM1

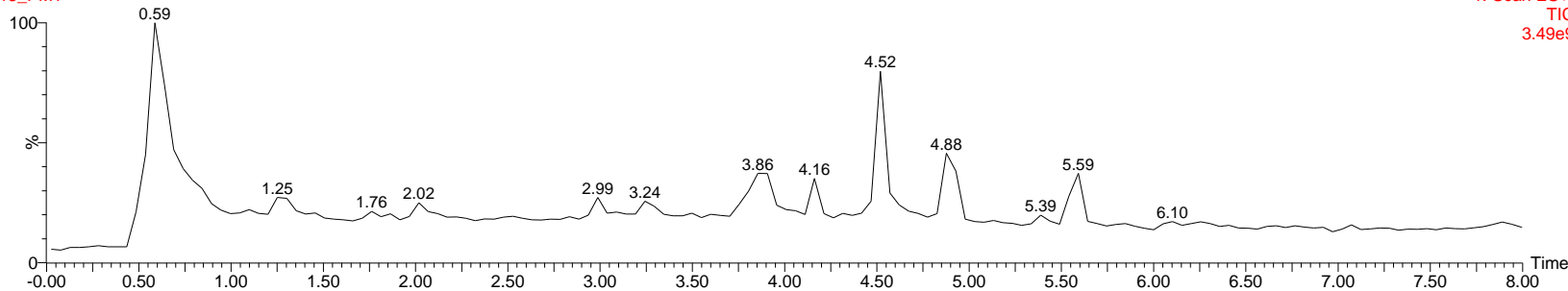
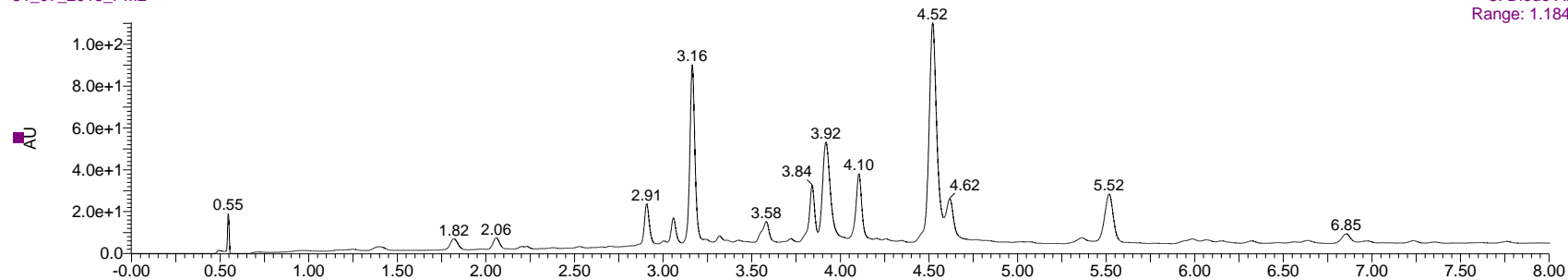
1: Scan ES+
TIC
3.49e9

Figure S1. Chromatographic profiles obtained by UPLC for the EtOH extract of leaves from *D. cymosa* with detection by DAD and ESI-MS in the negative and positive ionization modes.

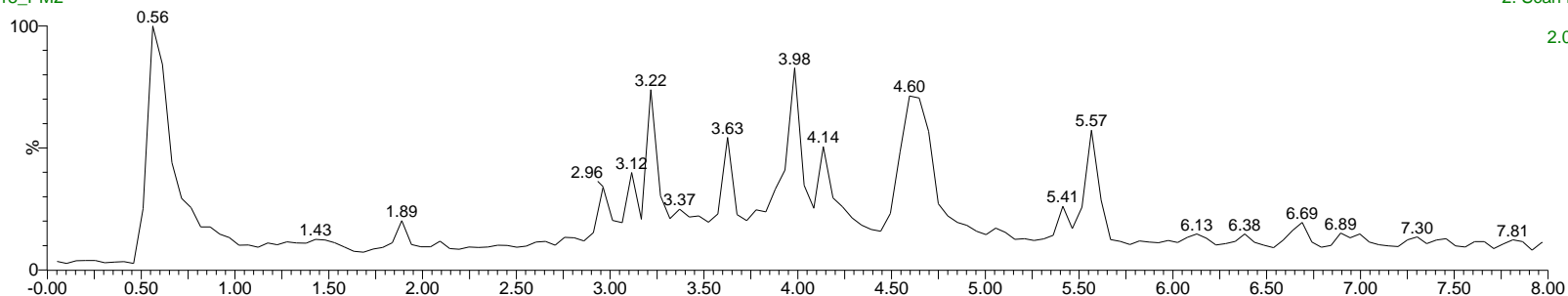
31_07_2018_PM2

3: Diode Array
Range: 1.184e+2



31_07_2018_PM2

2: Scan ES-
TIC
2.06e8



31_07_2018_PM2

1: Scan ES+
TIC
2.60e9

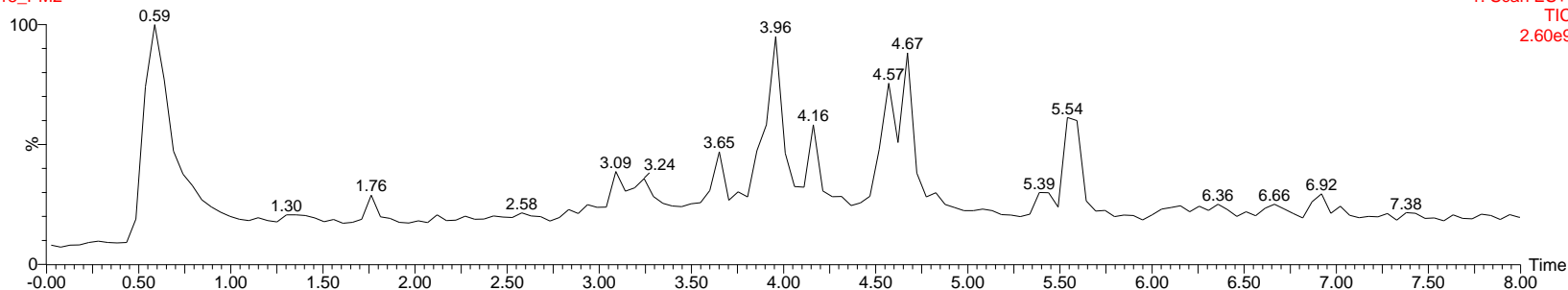
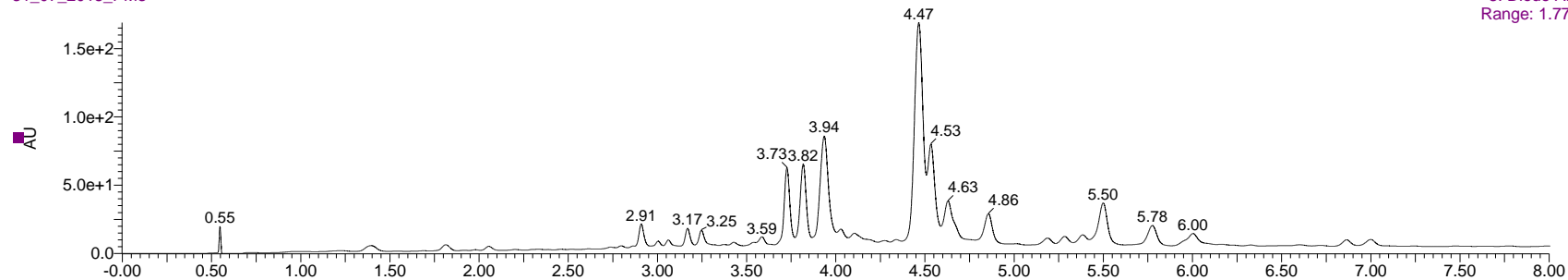
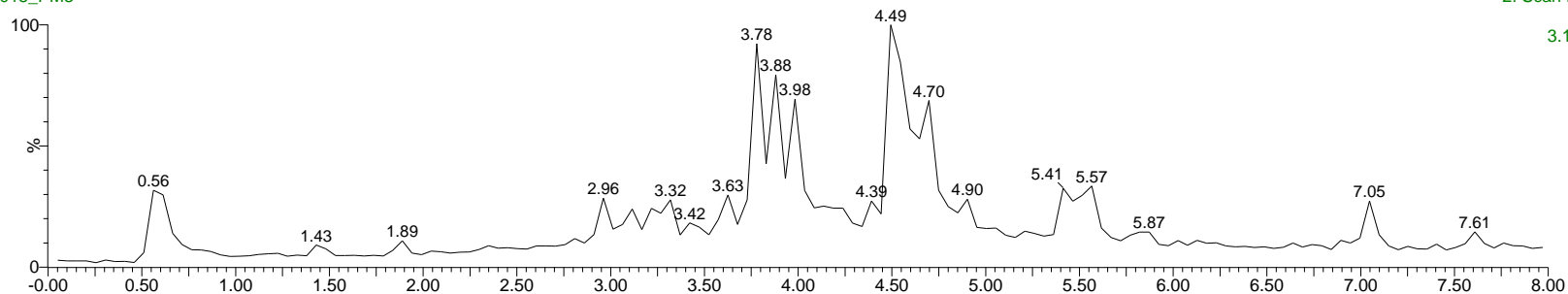


Figure S2. Chromatographic profiles obtained by UPLC for the EtOH extract of roots from *D. cymosa* with detection by DAD and ESI-MS in the negative and positive ionization modes.

31_07_2018_PM3

3: Diode Array
Range: 1.77e+2

31_07_2018_PM3

2: Scan ES-
TIC
3.14e8

31_07_2018_PM3

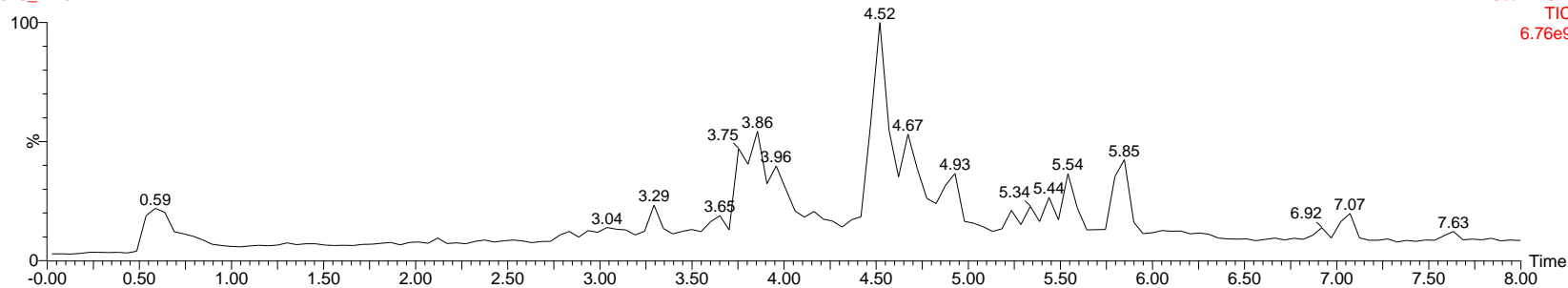
1: Scan ES+
TIC
6.76e9

Figure S3. Chromatographic profiles obtained by UPLC for the EtOH extract of rhizomes and roots from *P. hexandrum* with detection by DAD and ESI-MS in the negative and positive ionization modes.

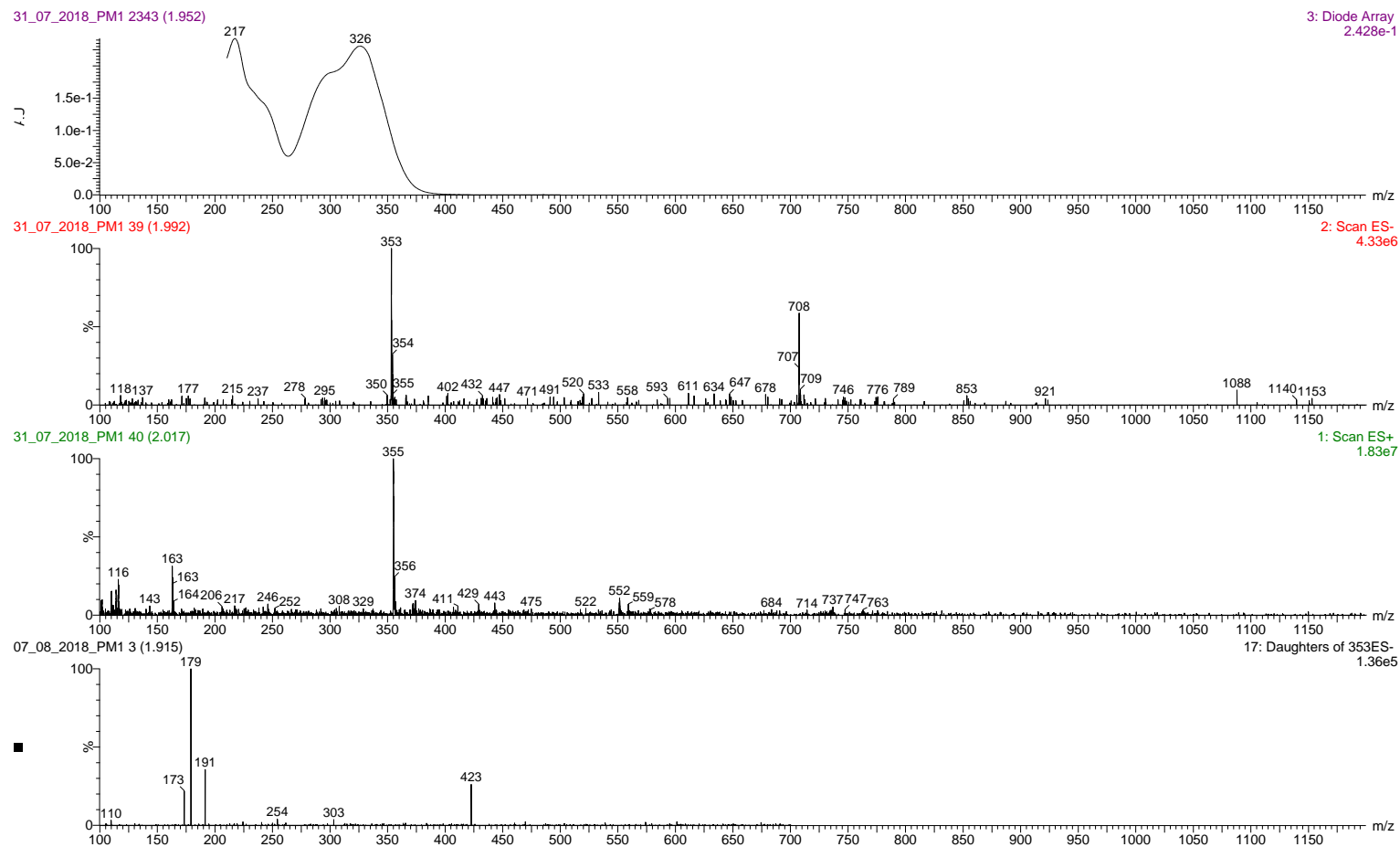


Figure S4. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 1.

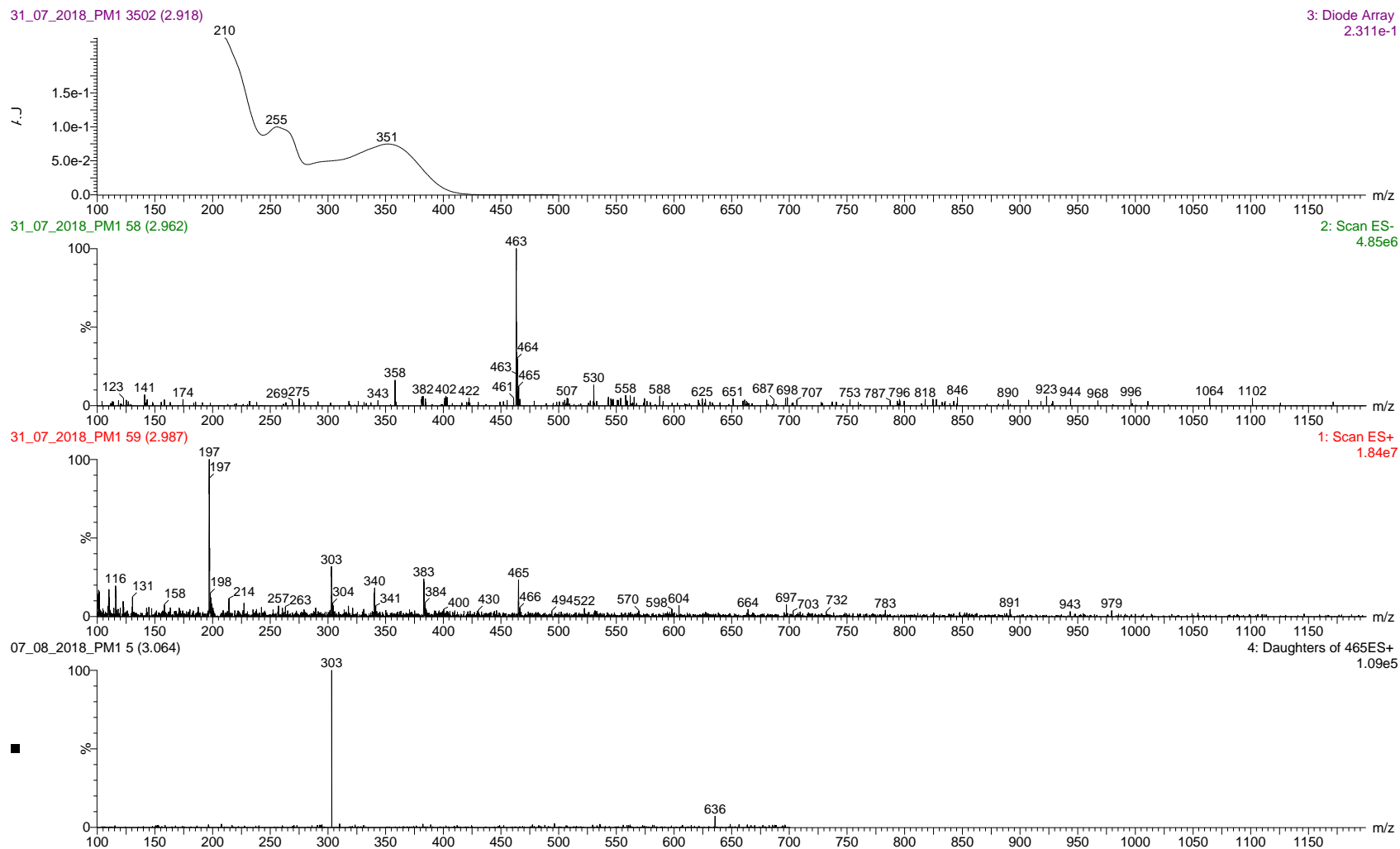


Figure S5. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 2.

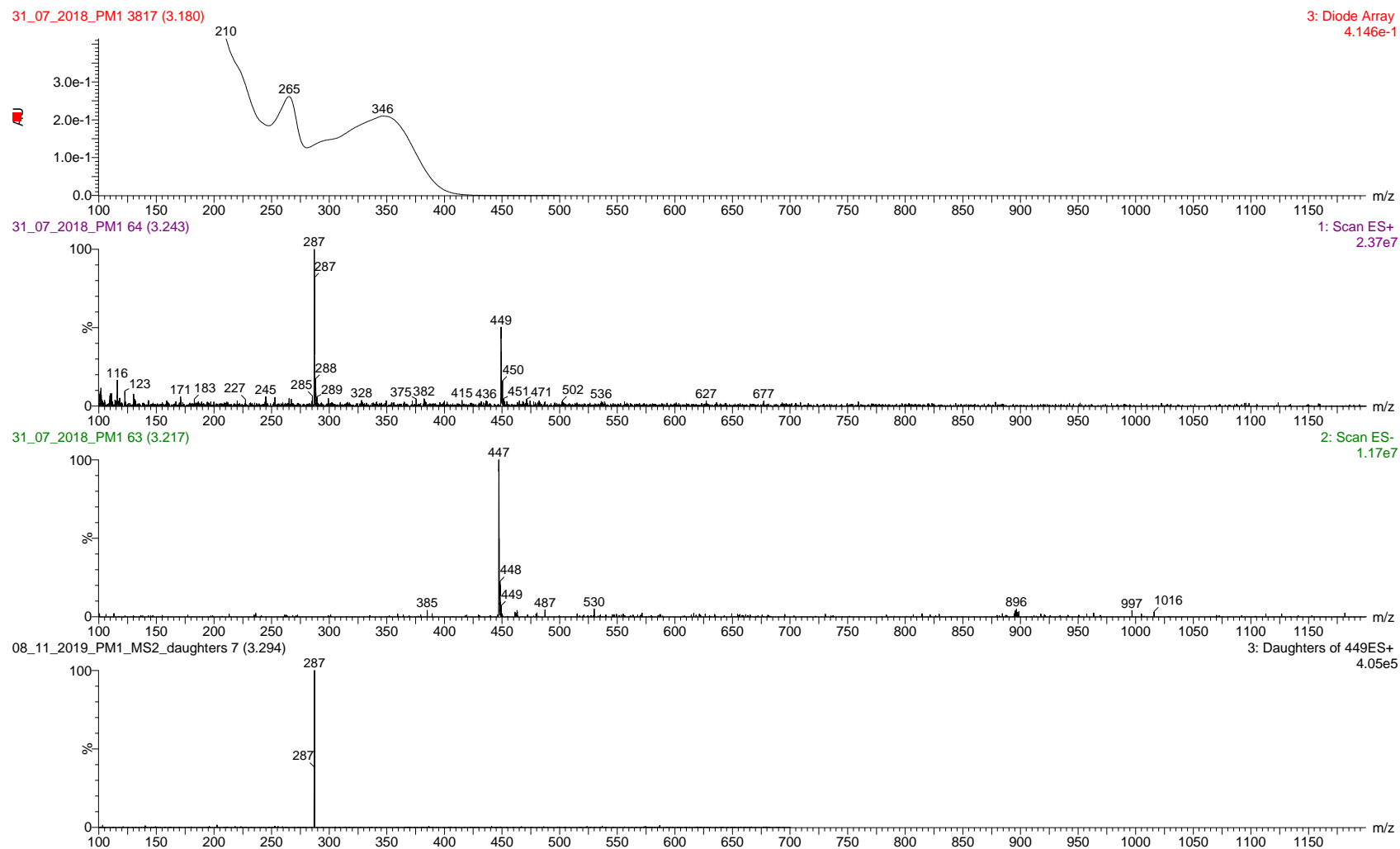
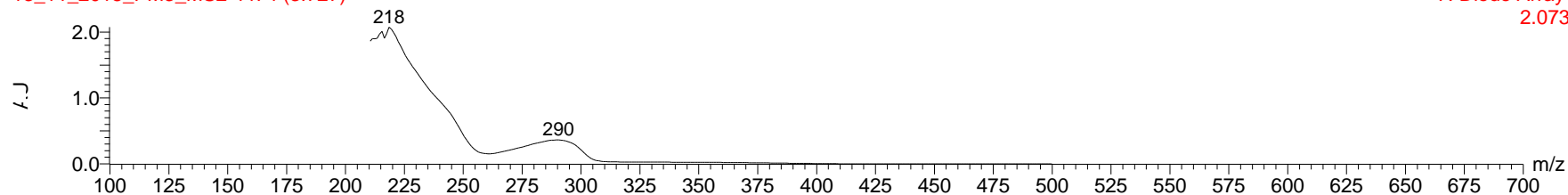


Figure S6. DAD, ESI-MS in the negative and positive ionization modes and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 3.

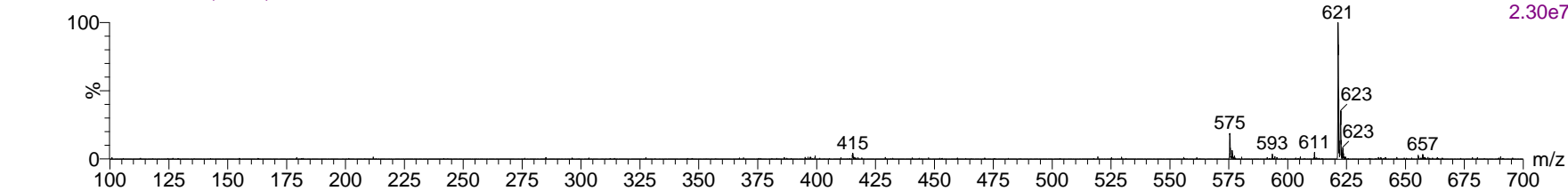
13_11_2018_PM3_MS2 4474 (3.727)

7: Diode Array
2.073



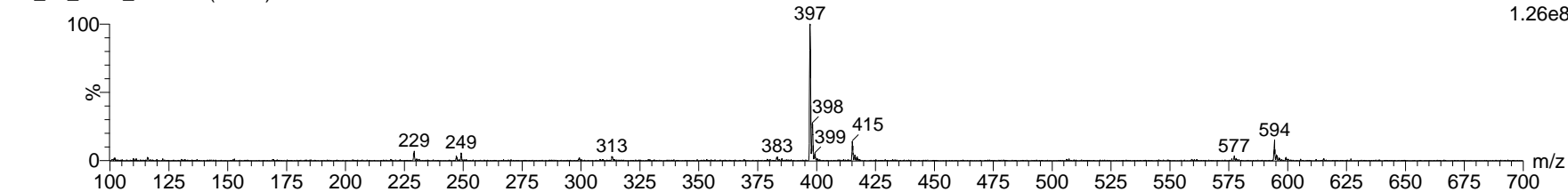
13_11_2011_PM3 74 (3.779)

2: Scan ES-
2.30e7



31_07_2018_PM3 74 (3.753)

1: Scan ES+
1.26e8



13_11_2018_PM3_MS2 25 (3.702)

1: Daughters of 577ES+
1.68e5

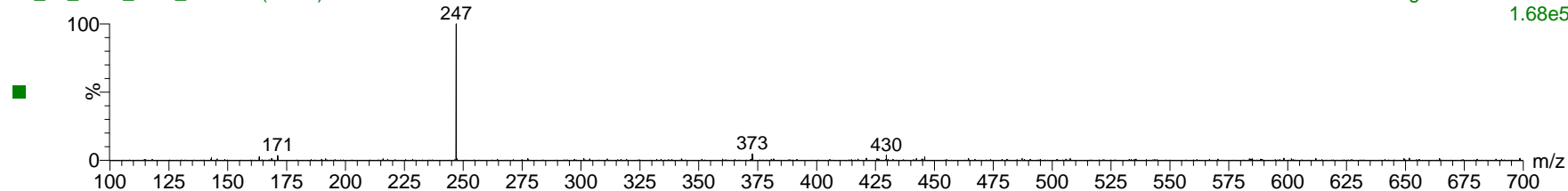


Figure S7. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 4.

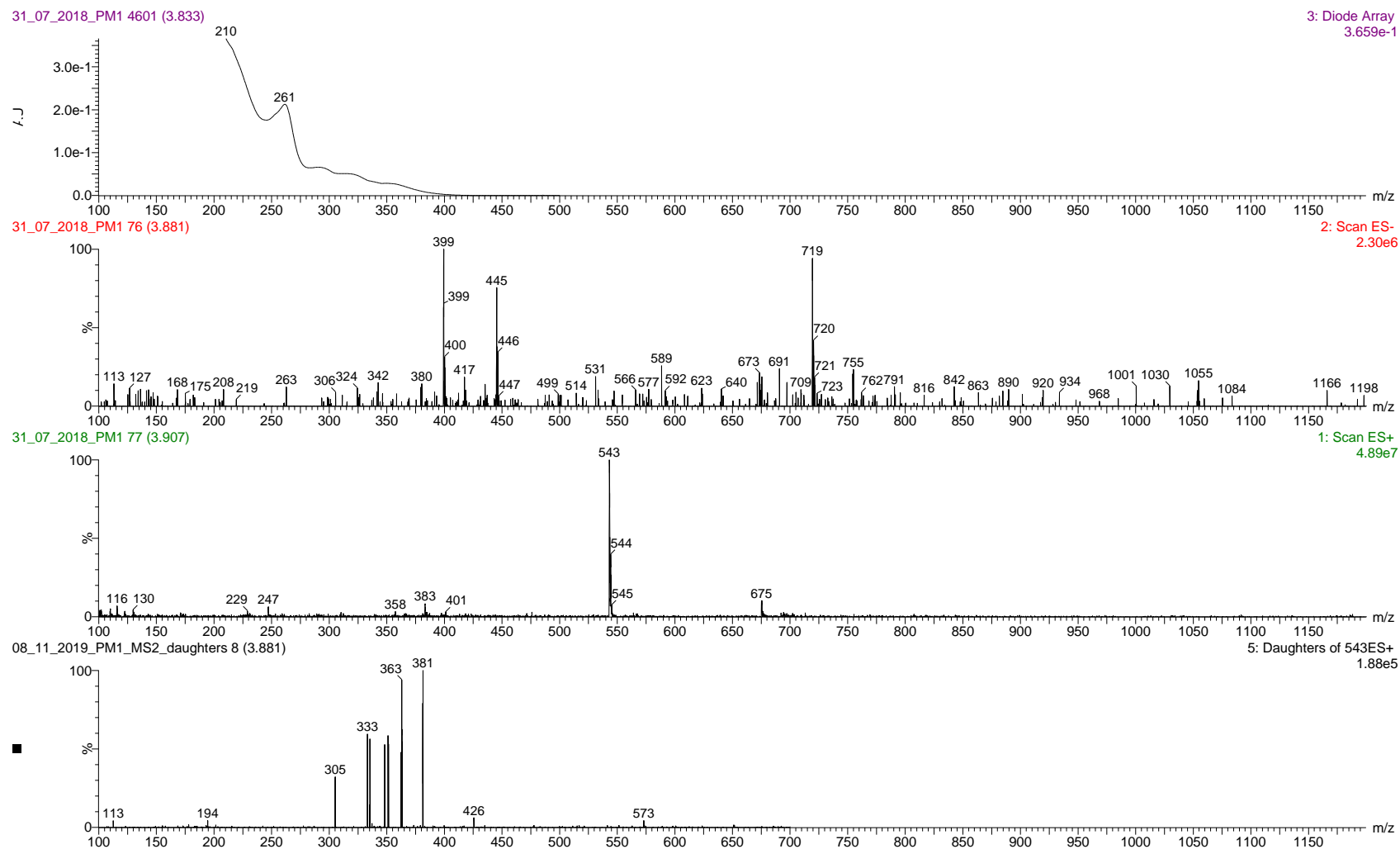


Figure S8. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 5.

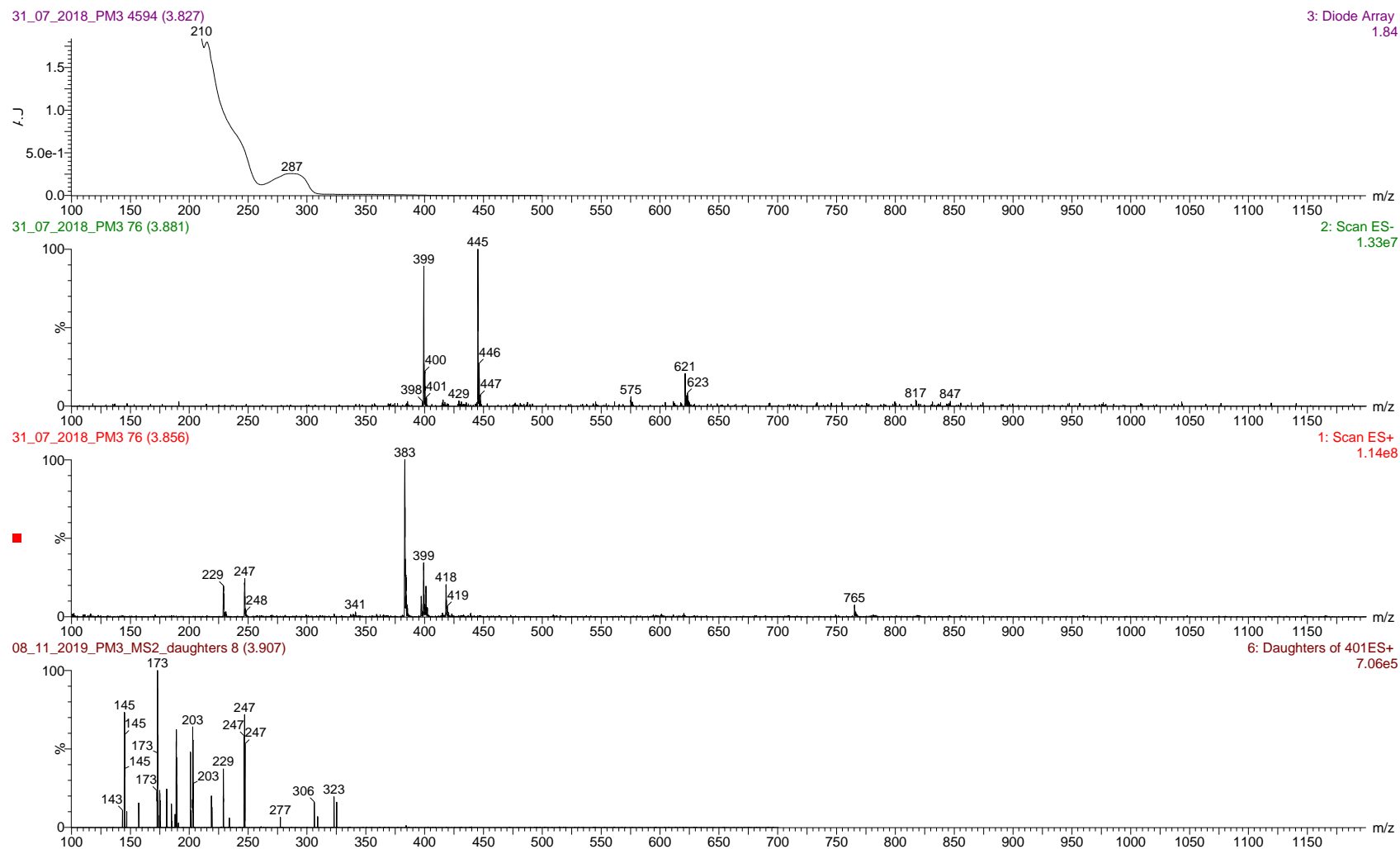
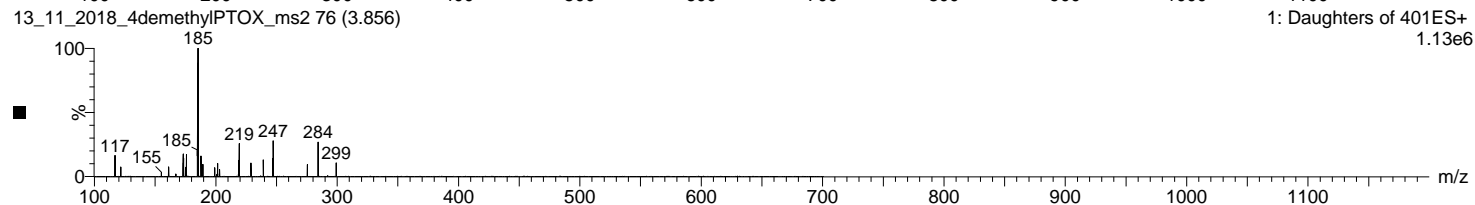
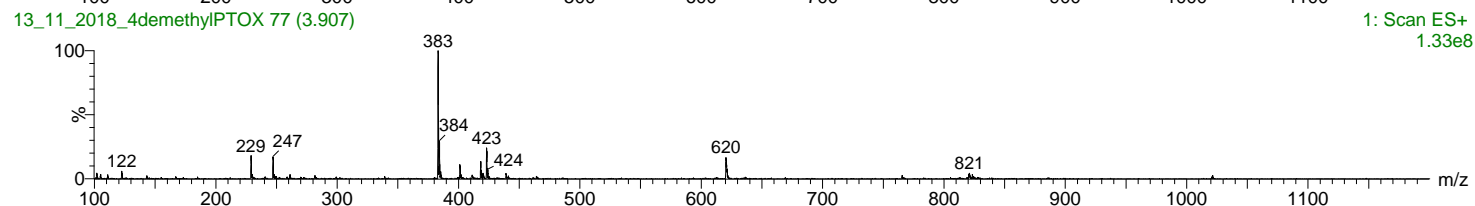
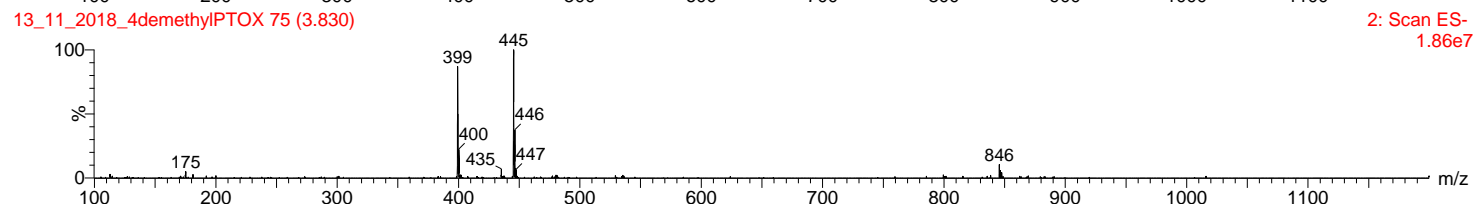
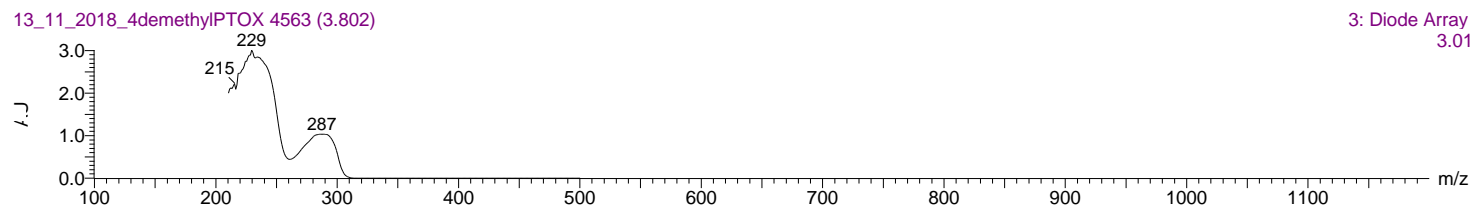
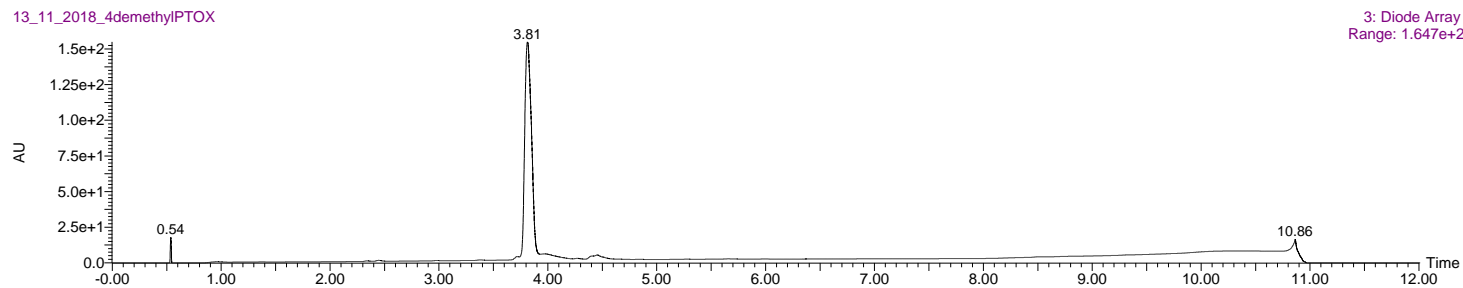


Figure S9. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 5'.



S10. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for 4'-demethylpodophyllotoxin.

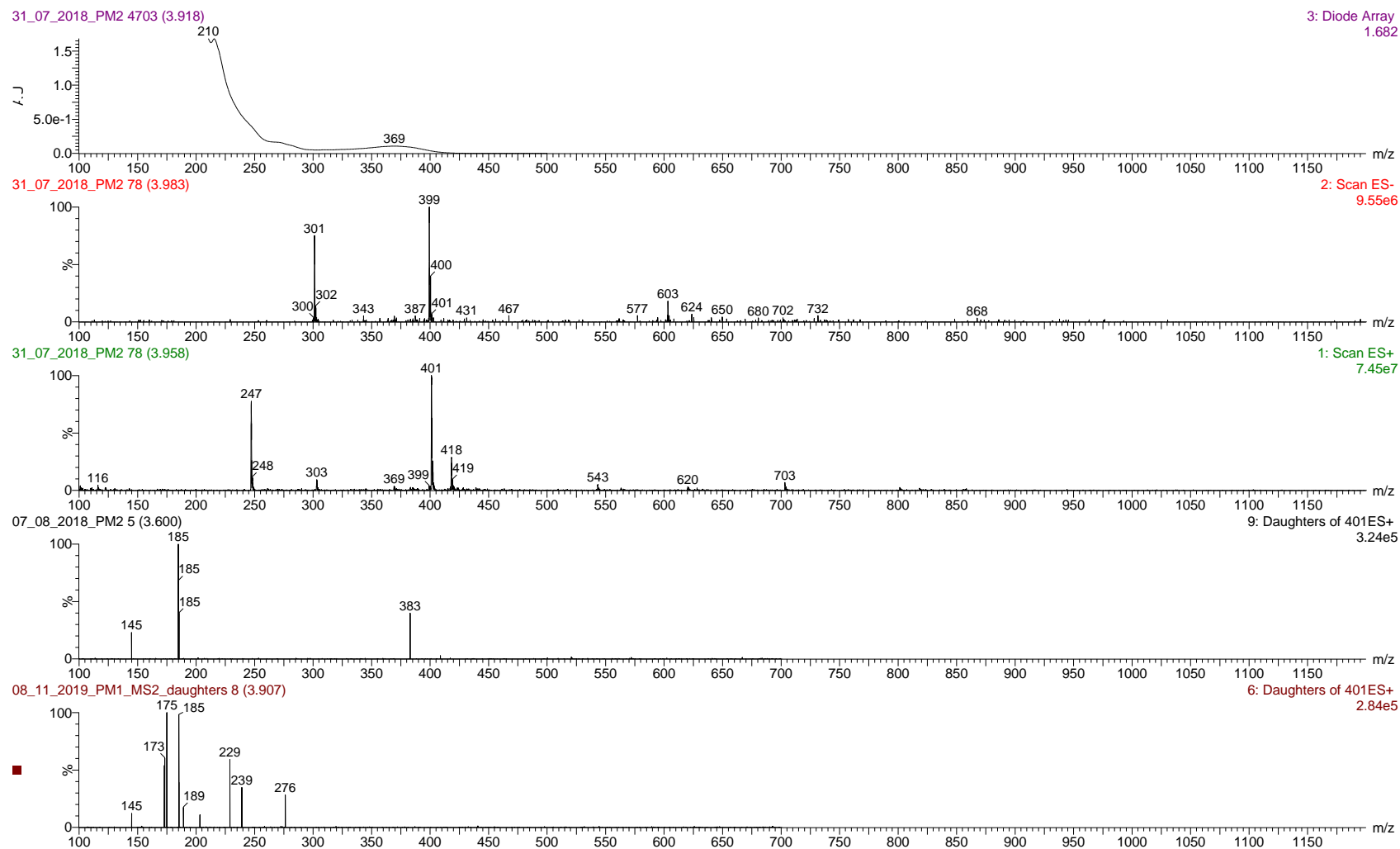
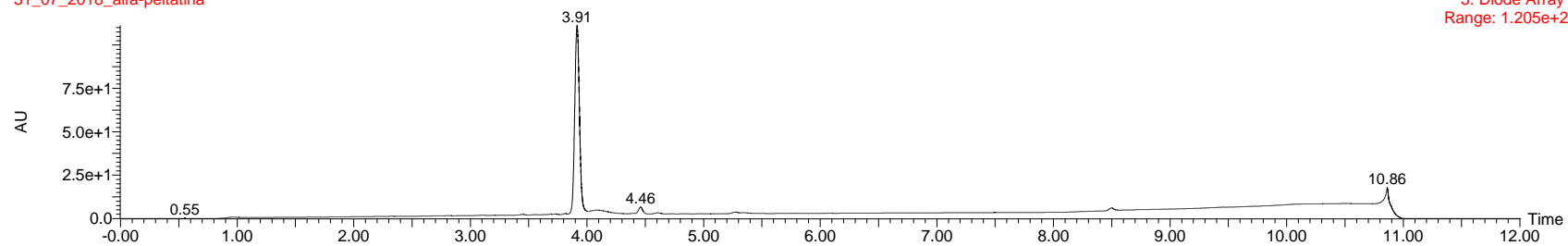
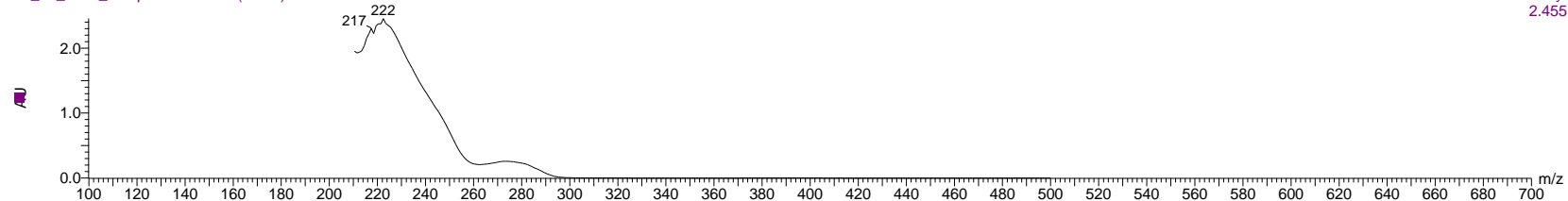


Figure S11. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 6.

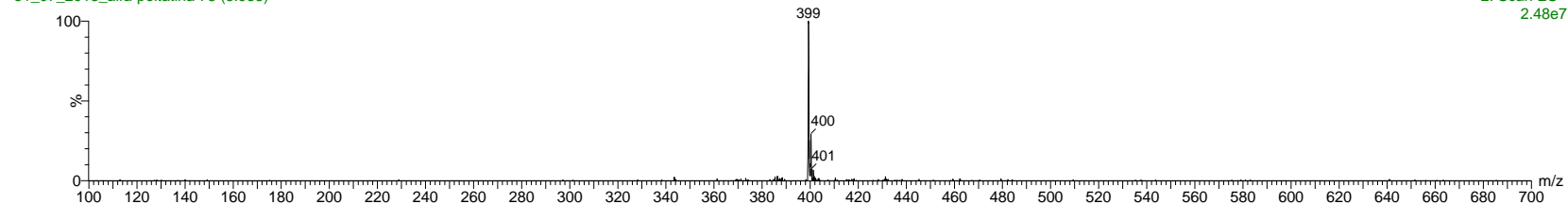
31_07_2018_alfa-peltatina



31_07_2018_alfa-peltatina 4717 (3.930)



31_07_2018_alfa-peltatina 78 (3.983)



31_07_2018_alfa-peltatina 78 (3.958)

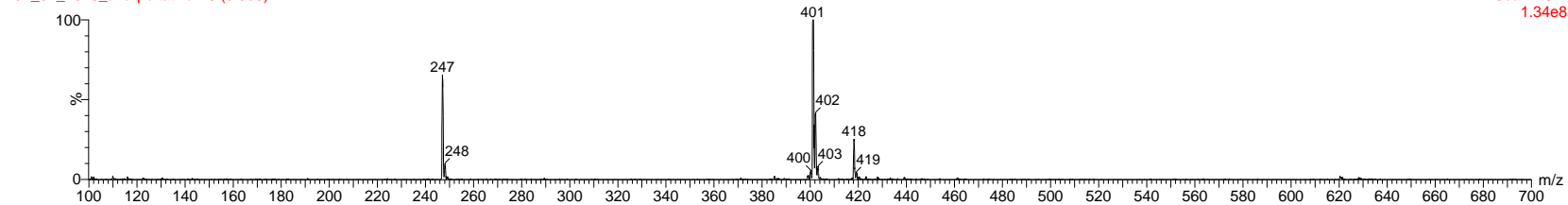


Figure S12. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for alpha-peltatin.

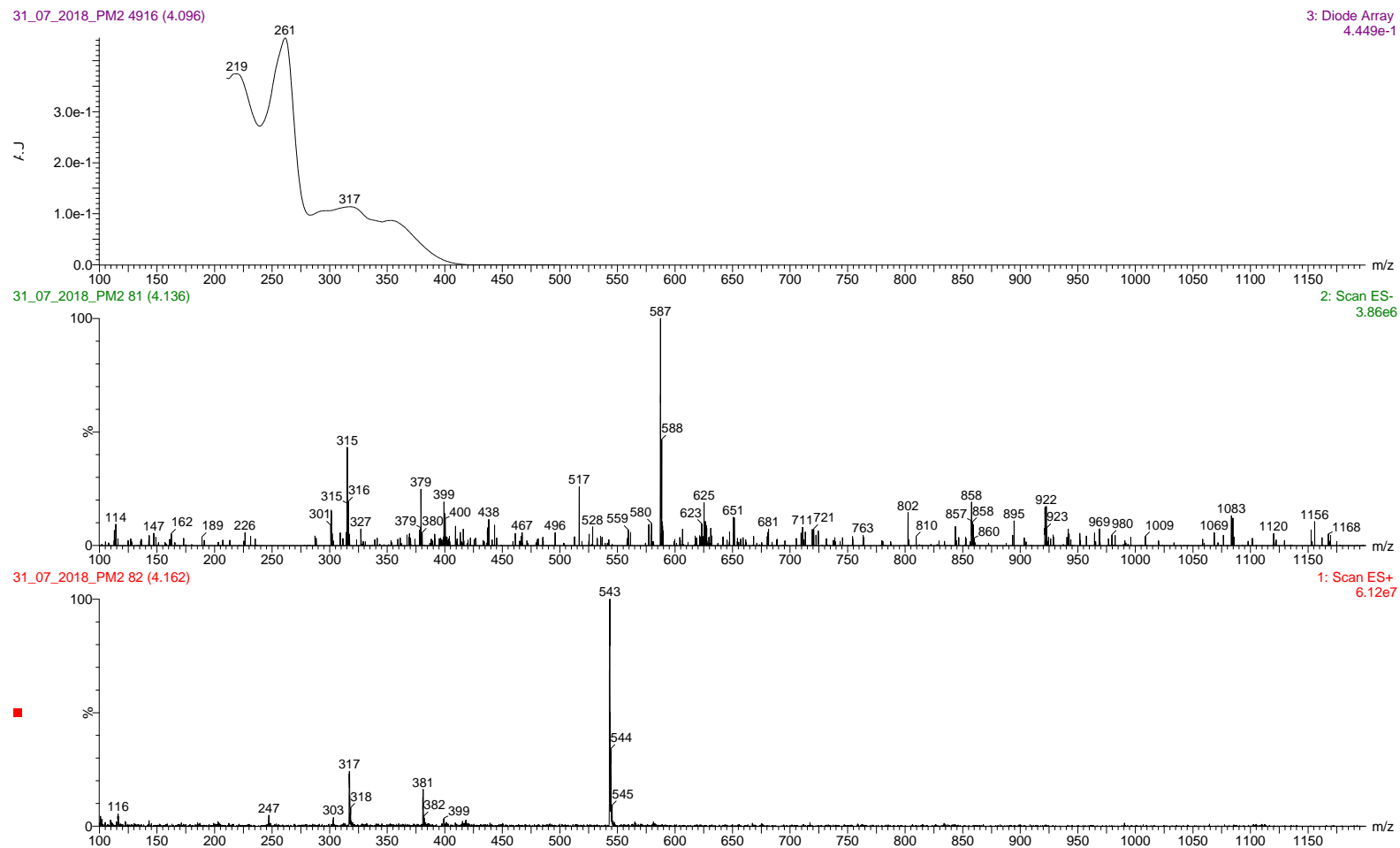


Figure S13. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 7.

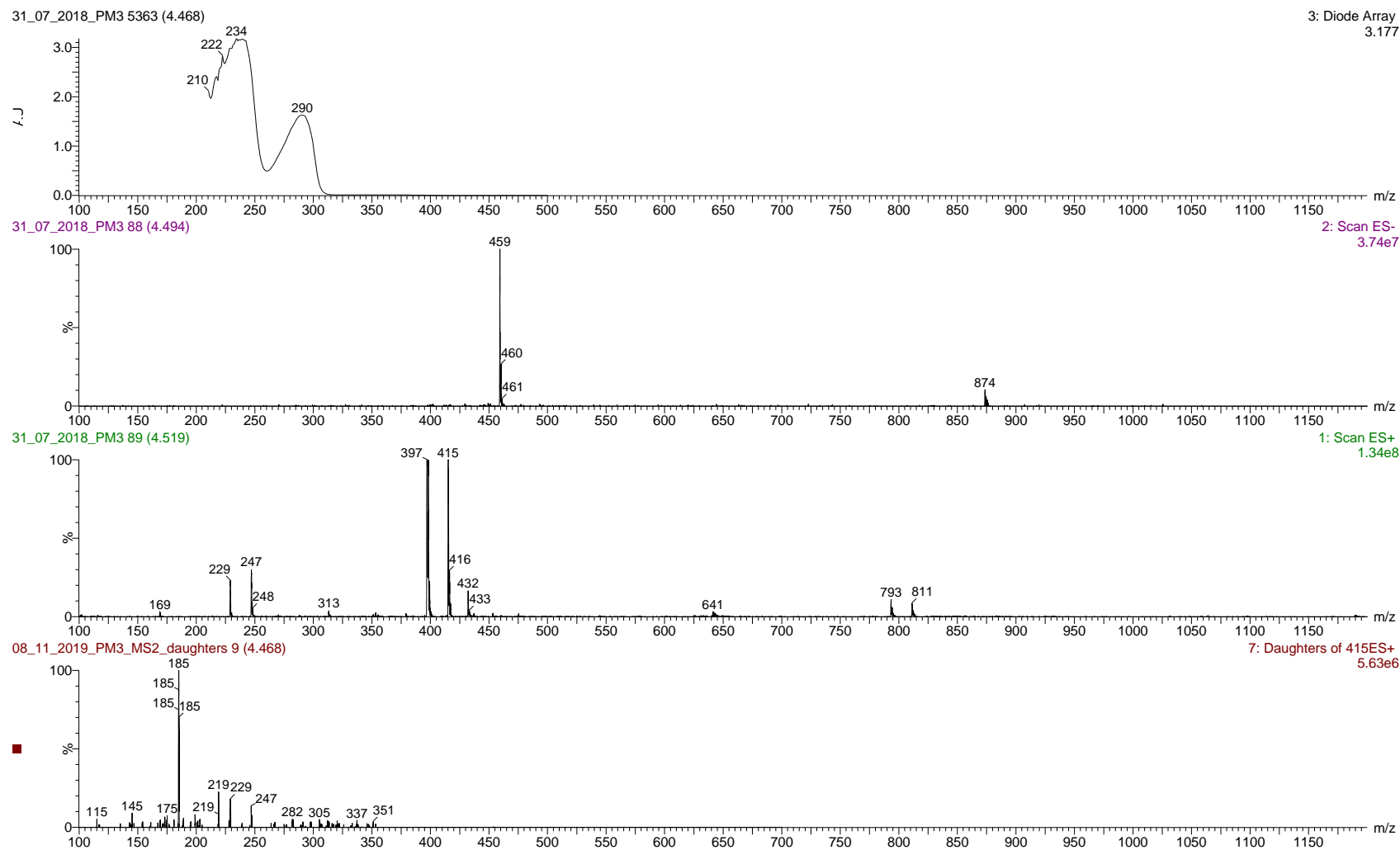


Figure S14. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 8.

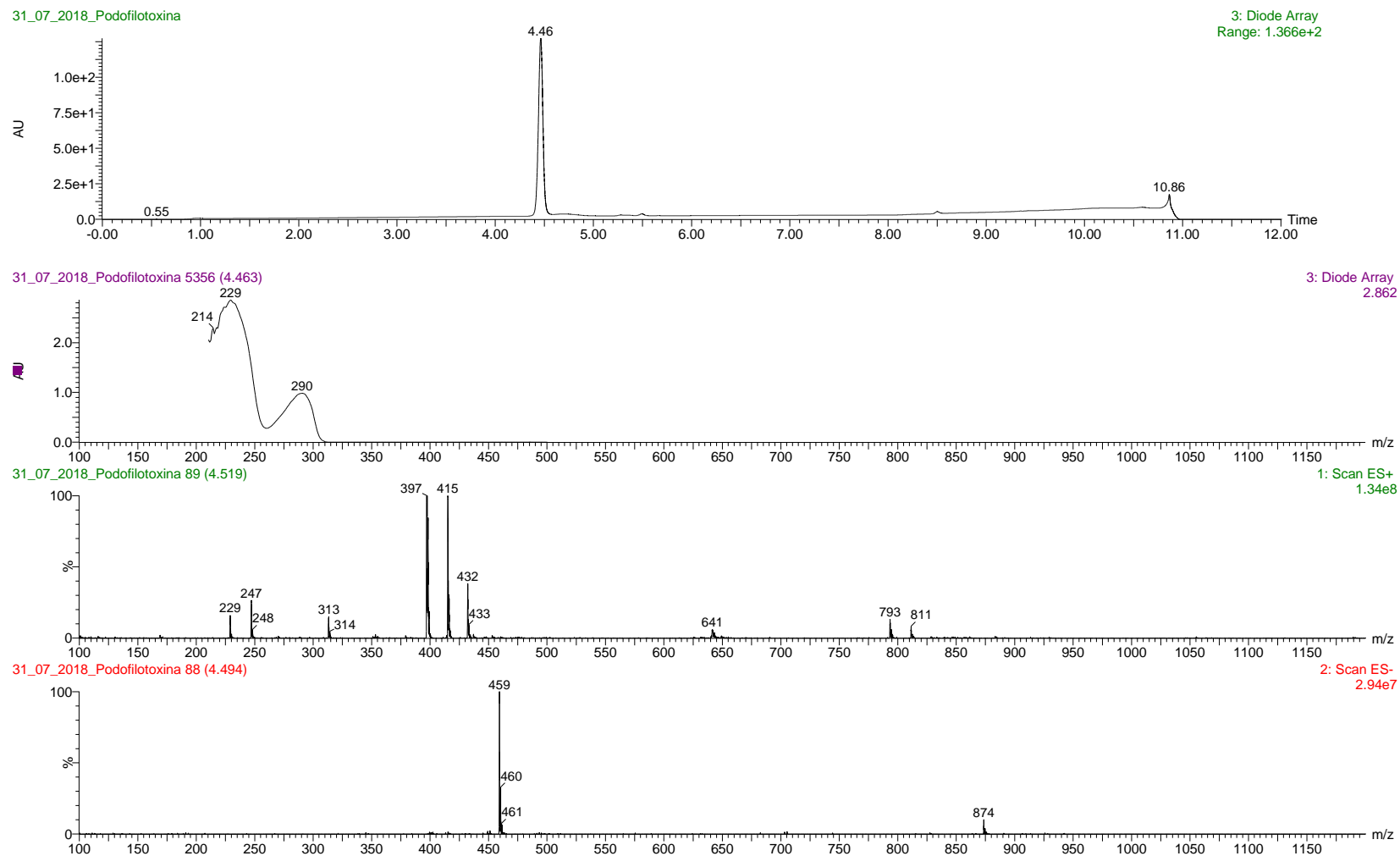


Figure S15. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for podophyllotoxin.

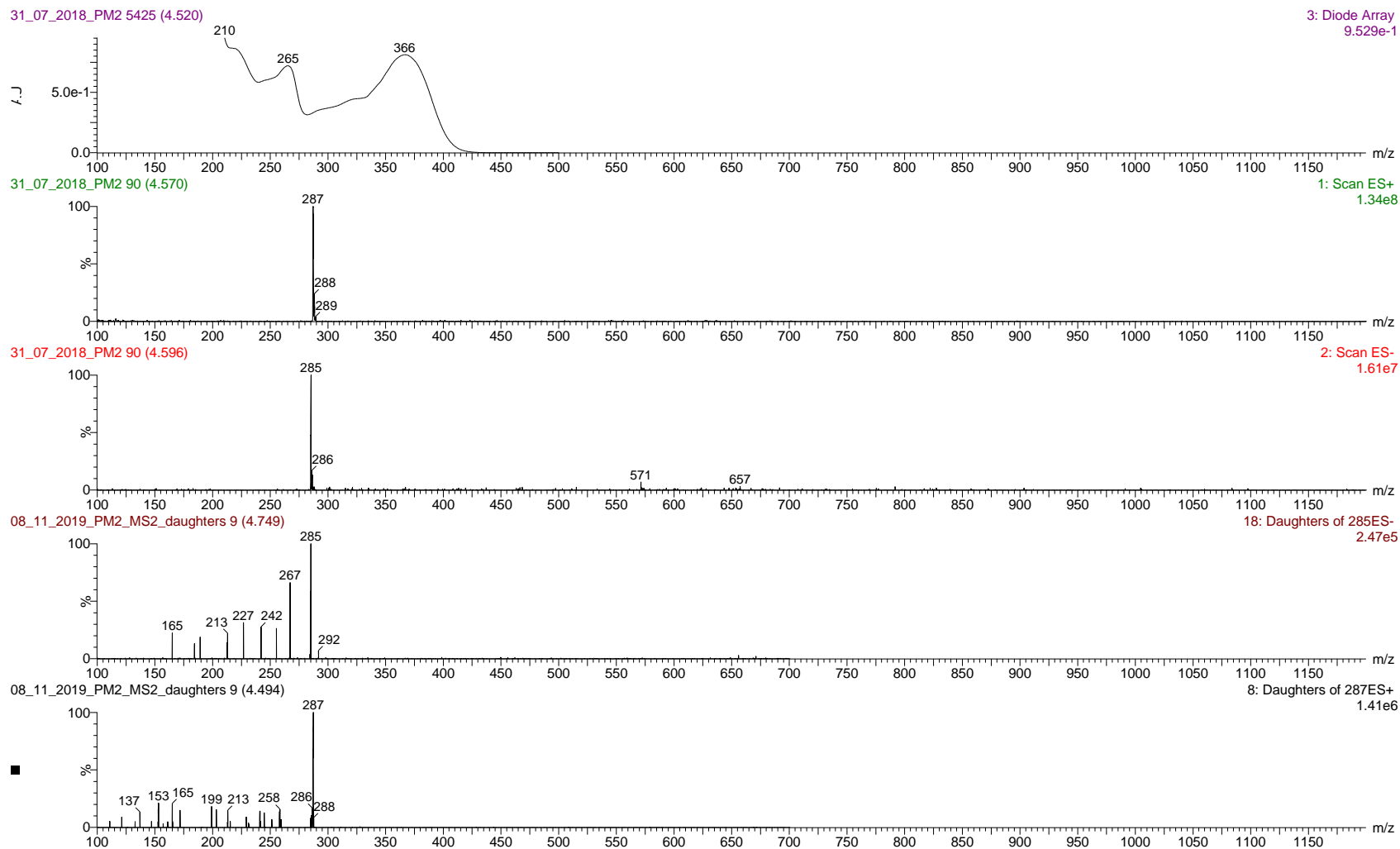


Figure S16. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 9.

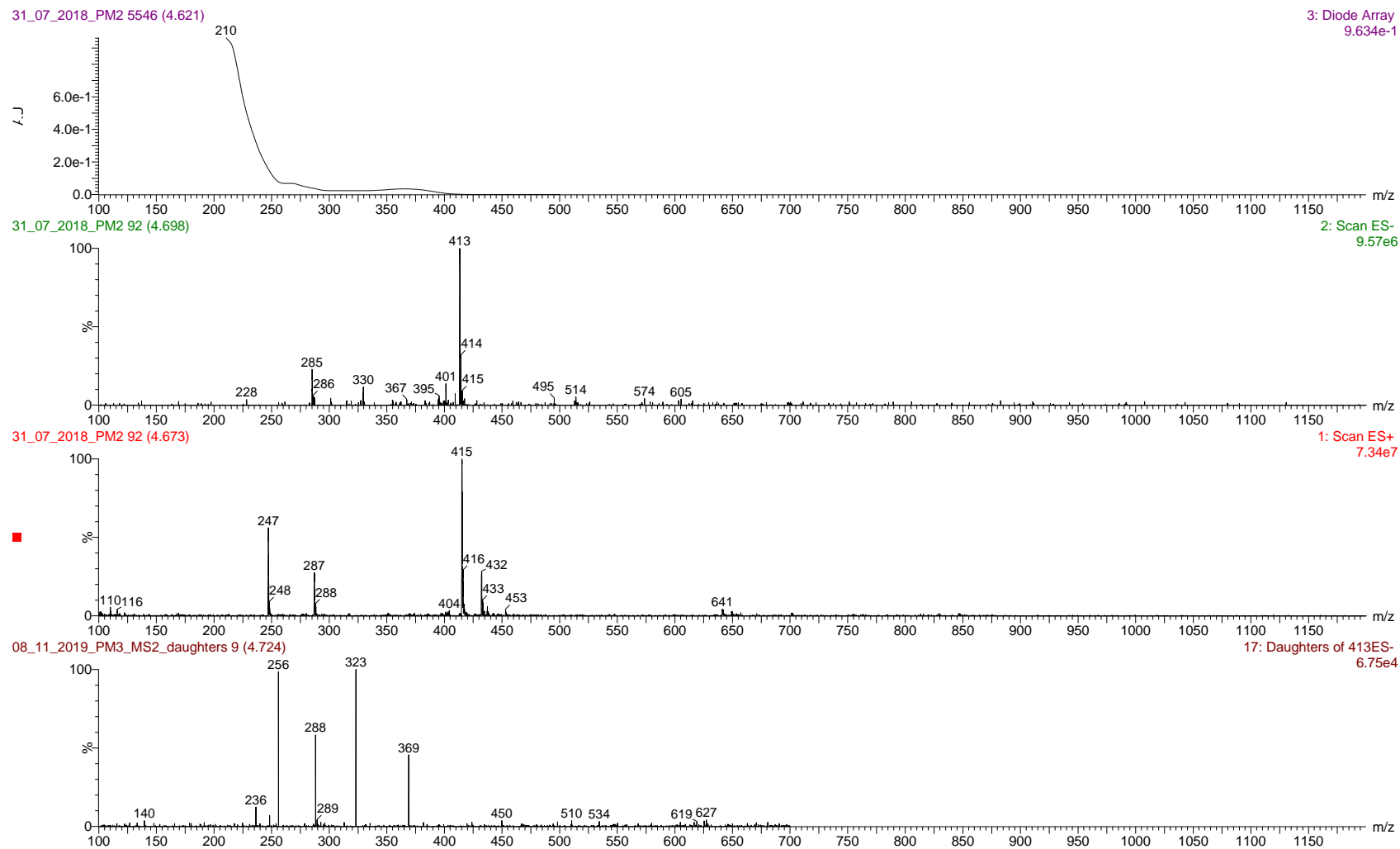
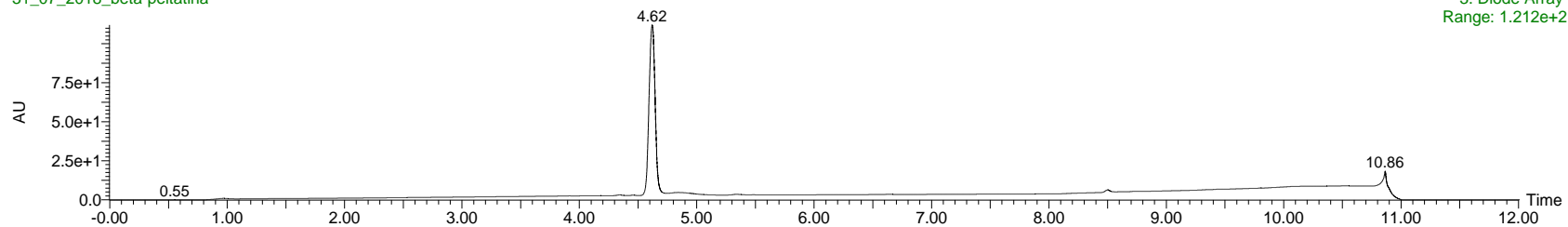
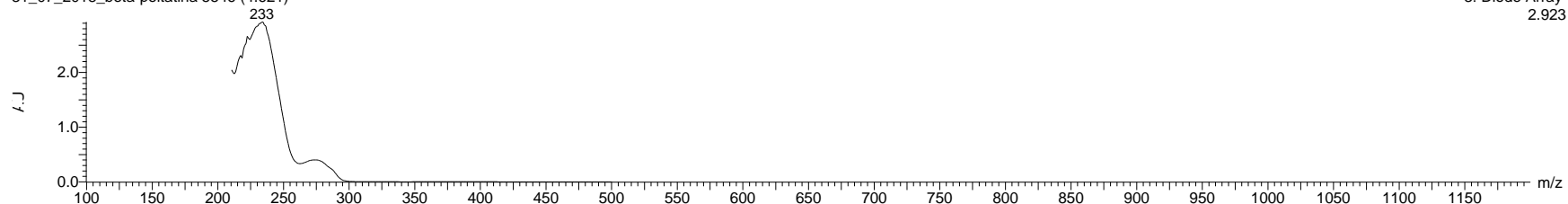


Figure S17. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 10.

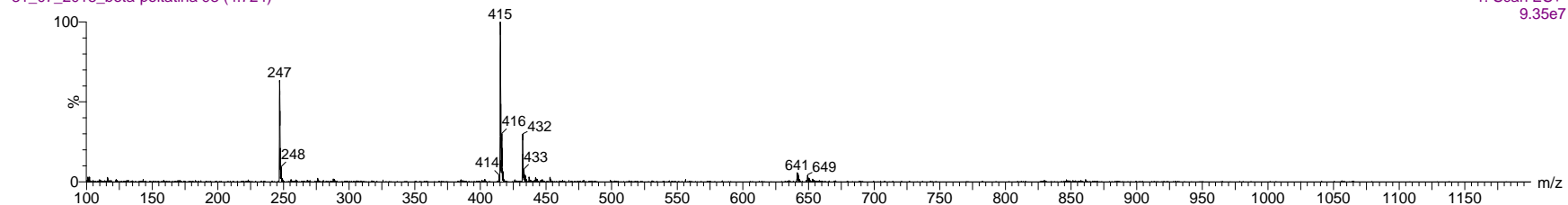
31_07_2018_beta-peltatina



31_07_2018_beta-peltatina 5546 (4.621)



31_07_2018_beta-peltatina 93 (4.724)



31_07_2018_beta-peltatina 92 (4.698)

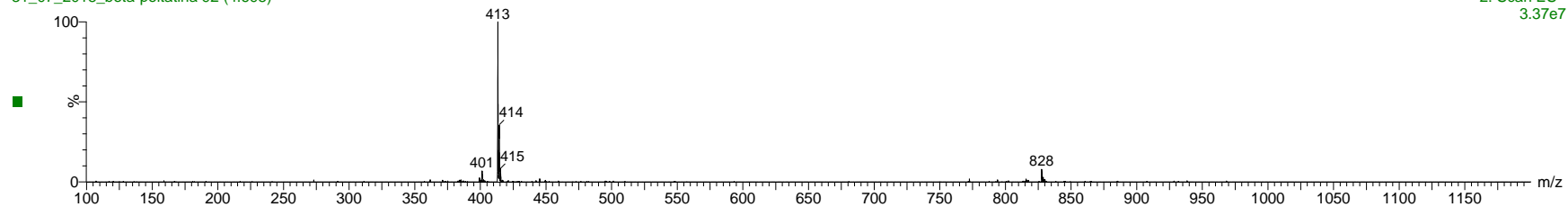
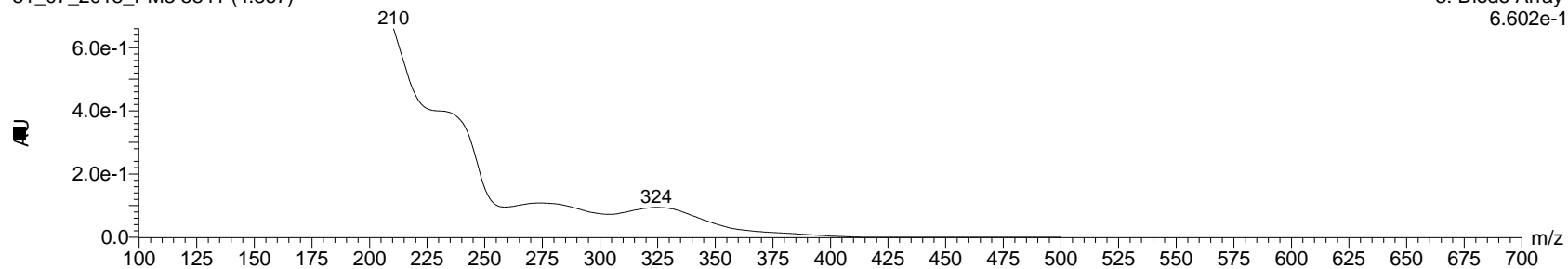


Figure S18. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for beta-peltatine.

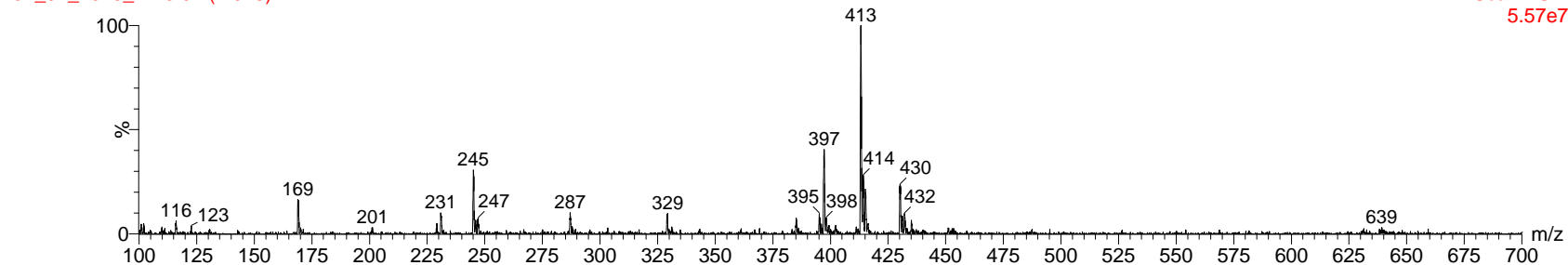
31_07_2018_PM3 5841 (4.867)

3: Diode Array
6.602e-1



31_07_2018_PM3 97 (4.928)

1: Scan ES+
5.57e7



13_11_2018_PM3_MS2 33 (4.953)

2: Daughters of 413ES+
2.17e6

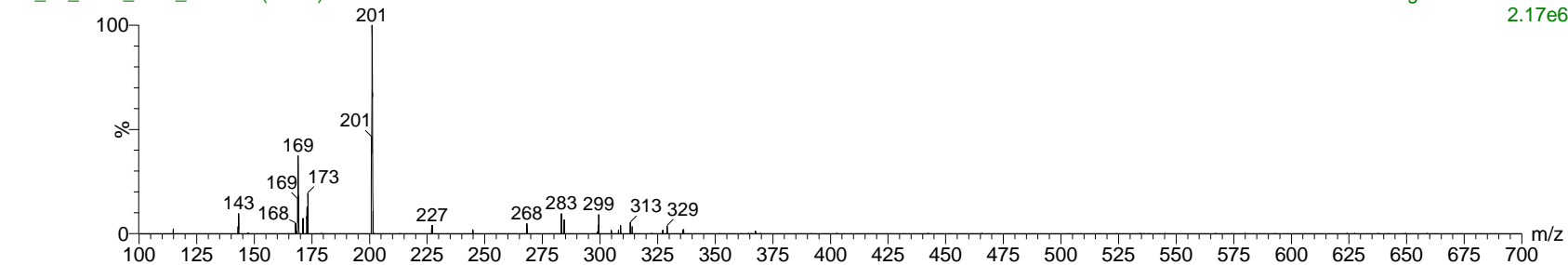


Figure S19. DAD, ESI-MS in positive ionization mode, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 11.

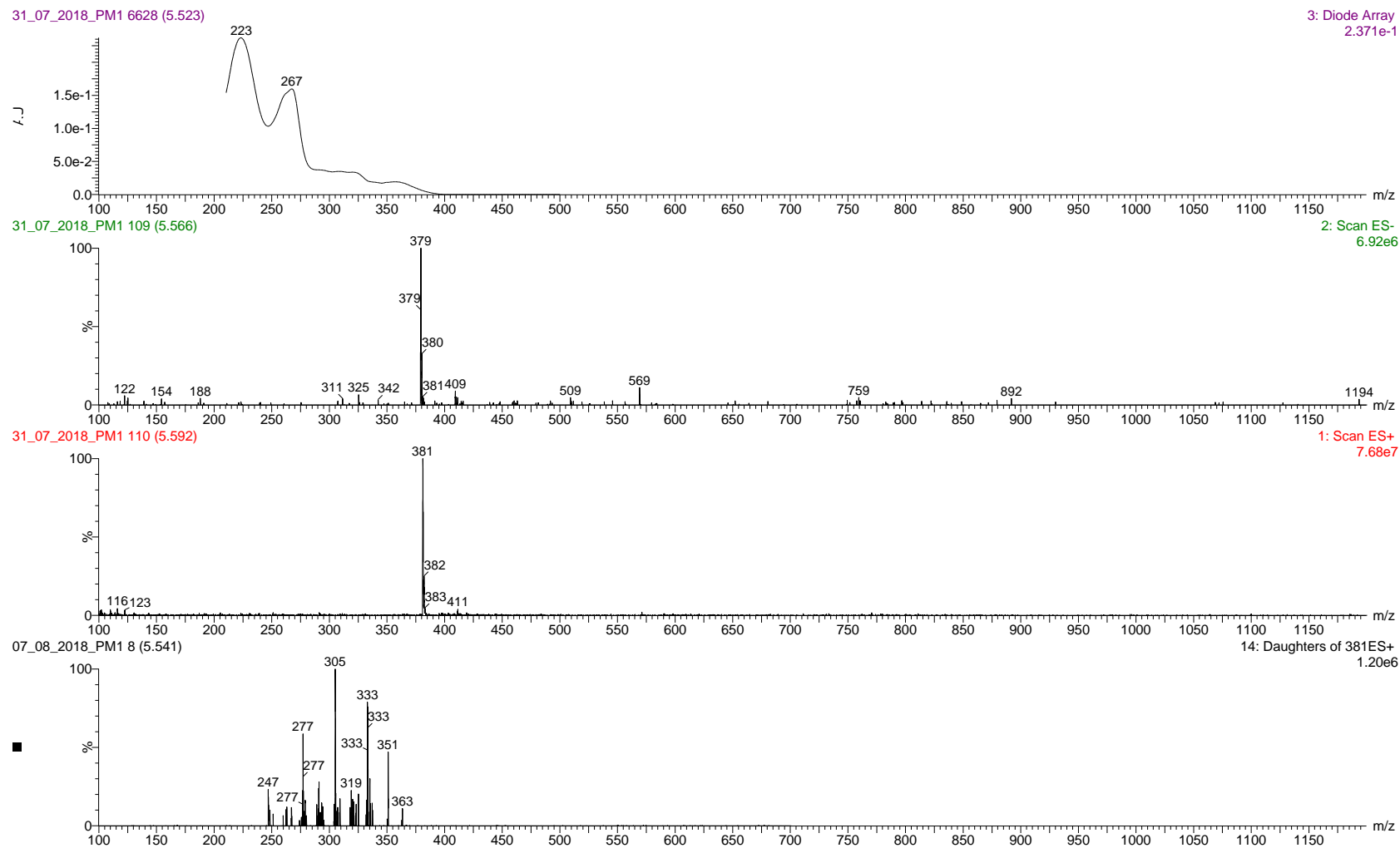


Figure S20. DAD, ESI-MS in the negative and positive ionization modes, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 12.

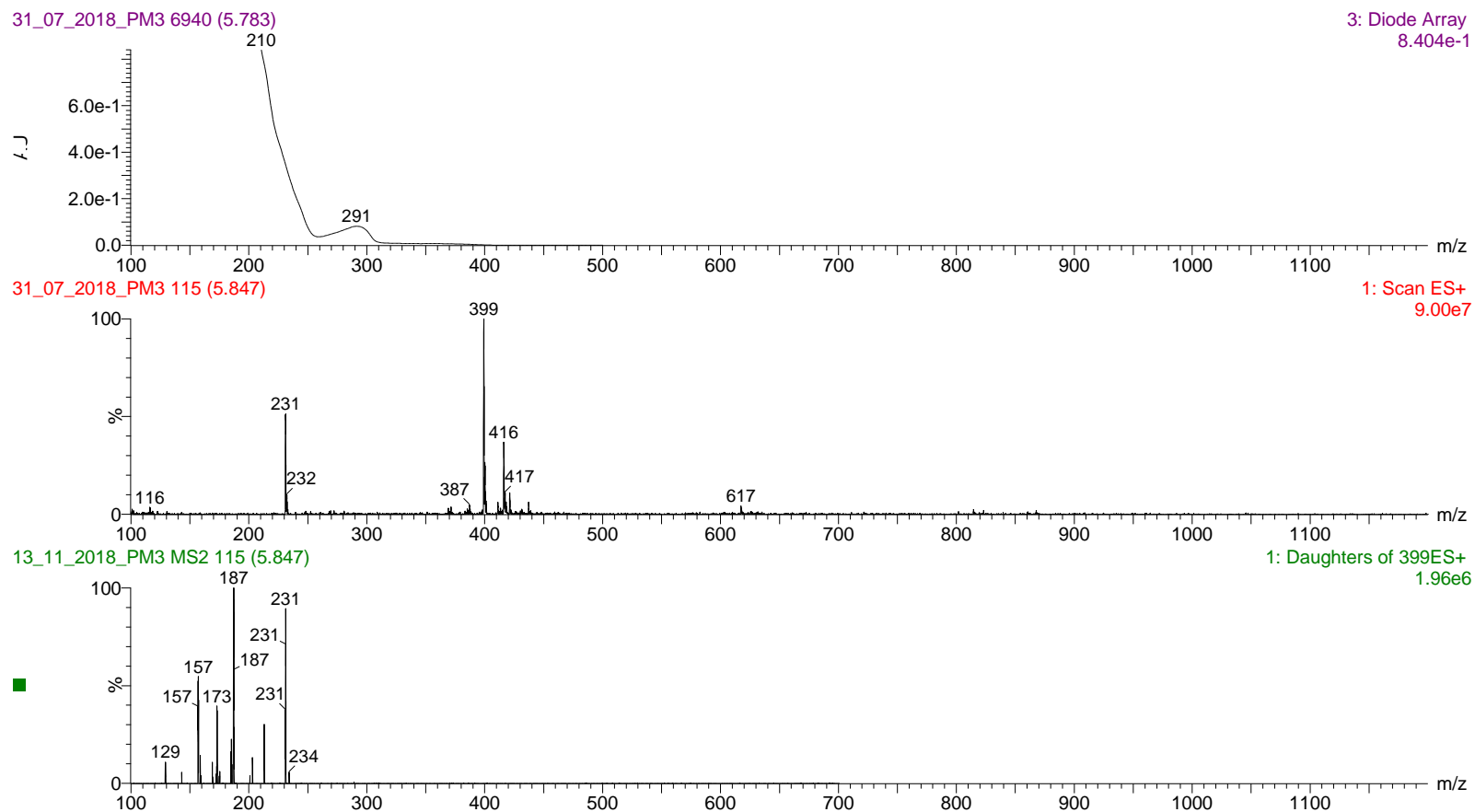


Figure S21. DAD, ESI-MS in the positive ionization mode, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for chromatographic peak 13.

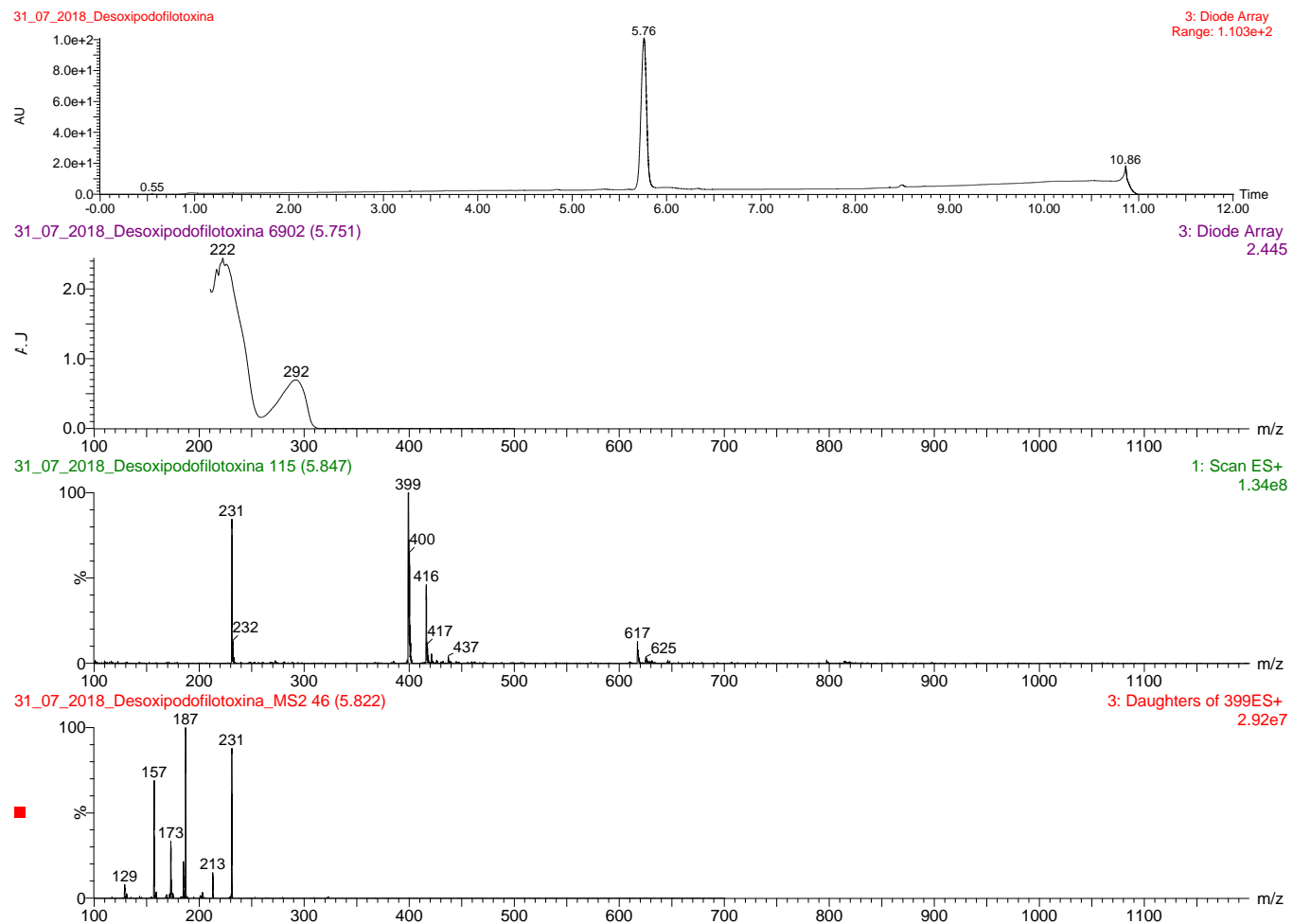


Figure S22. DAD, ESI-MS in the positive ionization mode, and ESI-MS/MS spectra obtained online by UPLC-DAD-ESI-MS/MS for deoxypodophyllotoxin.