

Supplementary material

Mass spectrometry:

Mass spectrometer: Amazon Speed ETD - Bruker

Capillary: 4500V

Nebulizer: 27.00 psi

Dry Gas: 7.00 L.min⁻¹

Dry Temp: 300 °C

Scan begin: 100 *m/z*

Scan end: 1500 *m/z*

ESI+

HPLC:

Controler: CBM-20A- Shimadzu

Pump: LC-20AD Shimadzu

Detector: SPD-20A - Shimadzu

Oven: CTO-20A - Shimadzu

Autoinjector: SIL 20AC – Shimadzu

Solvent A: Aqueous formic acid 0,1%

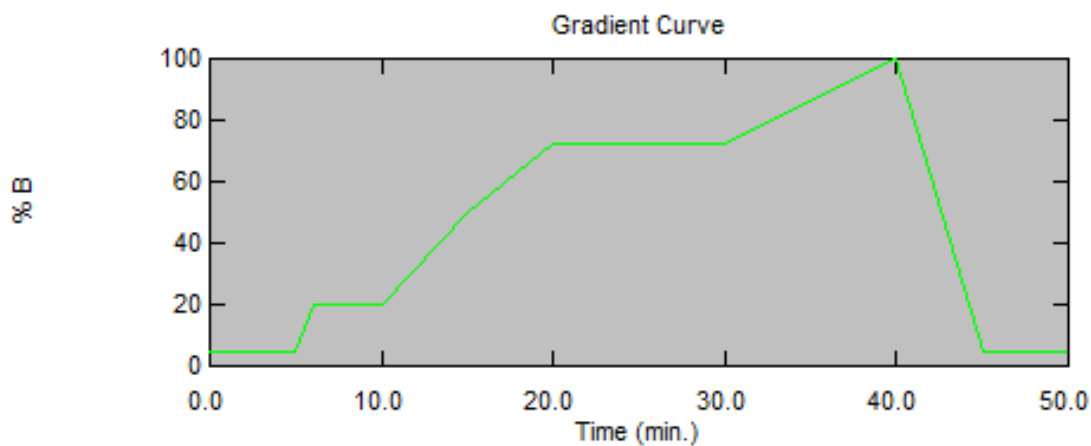
Solvent B: MeCN

Column: Phenomenex – Luna C18 (250 x4.6mm – 5µm)

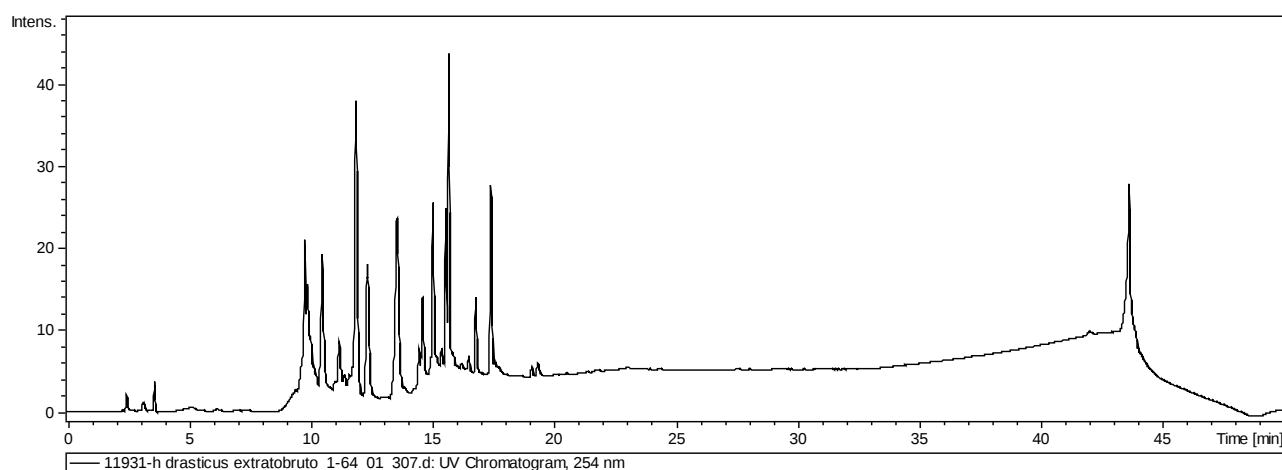
Oven temperature: 40°C

Flow rate: 1 ml/min

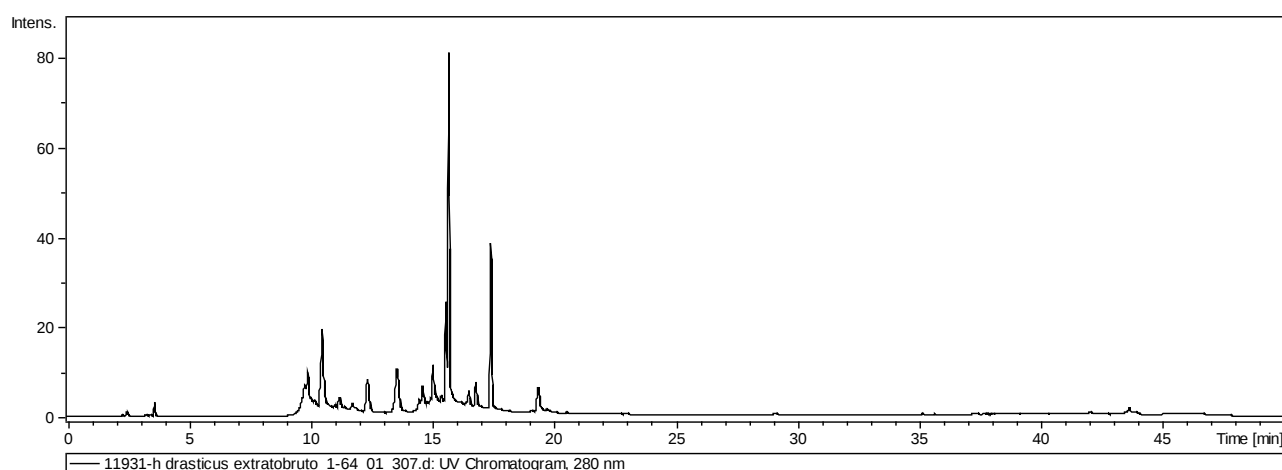
Method: 0-5 min, isocratic 5%B; 5-6 min, linear gradient 5-20%B; 6-10 min, isocratic 20%B; 10-15 min, linear gradient 20-50%B; 15-20 min, linear gradient 50-72%B; 20-30min, isocratic 72%B; 30-40 min, linear gradient 72-100%B; 40-45 min, linear gradient 100-5%B, 45-50 min, isocratic 5%B.



UV Chromatogram of the hydroalcoholic extract (HDHE) at 254 nm.

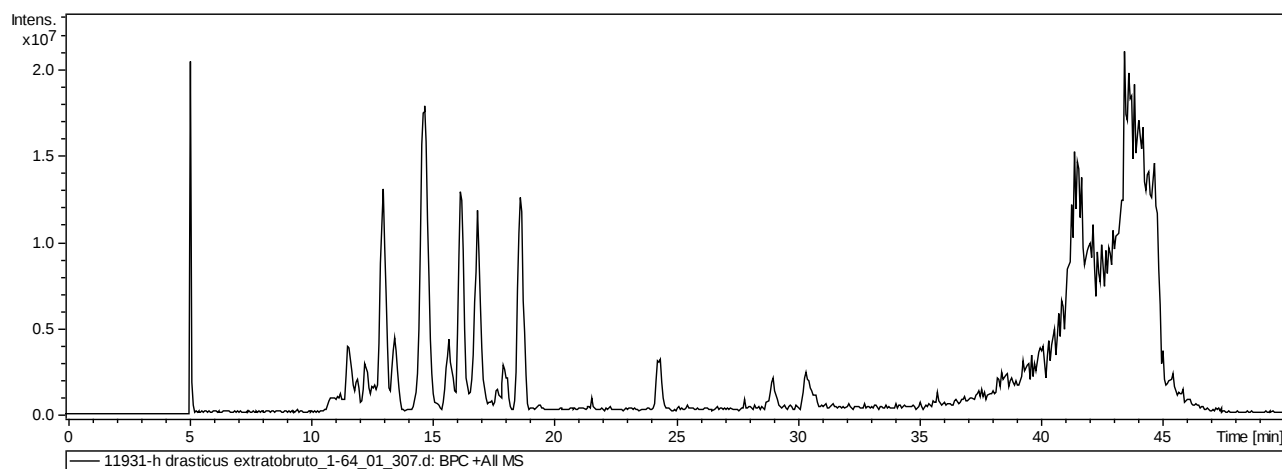


UV Chromatogram of the hydroalcoholic extract (HDHE) at 280 nm

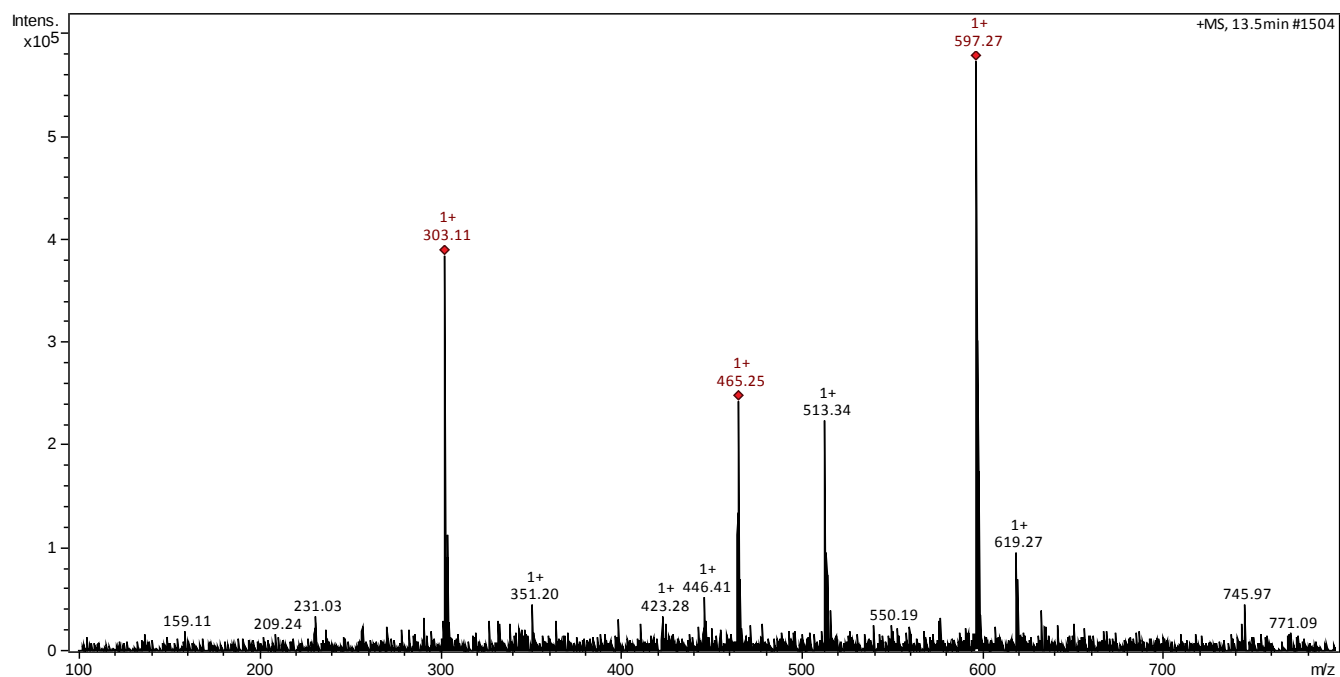


Ion Chromatogram of the hydroalcoholic extract (HDHE)

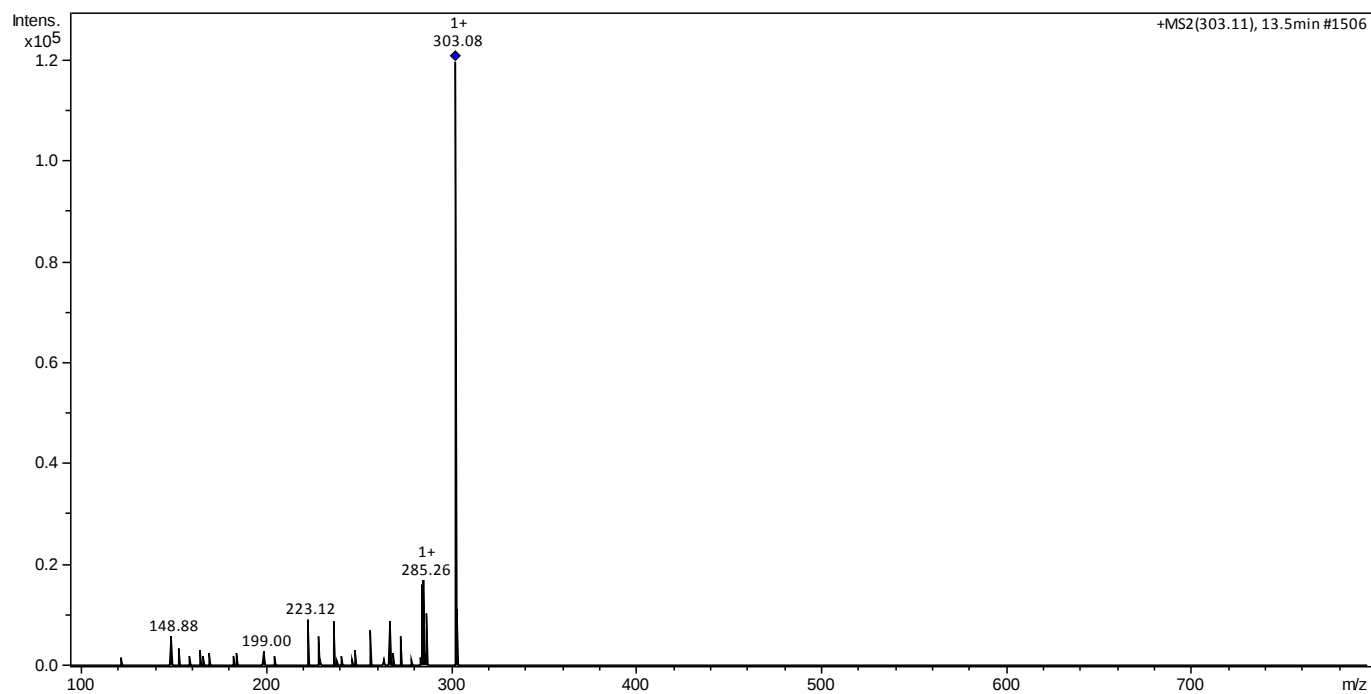
ESI+



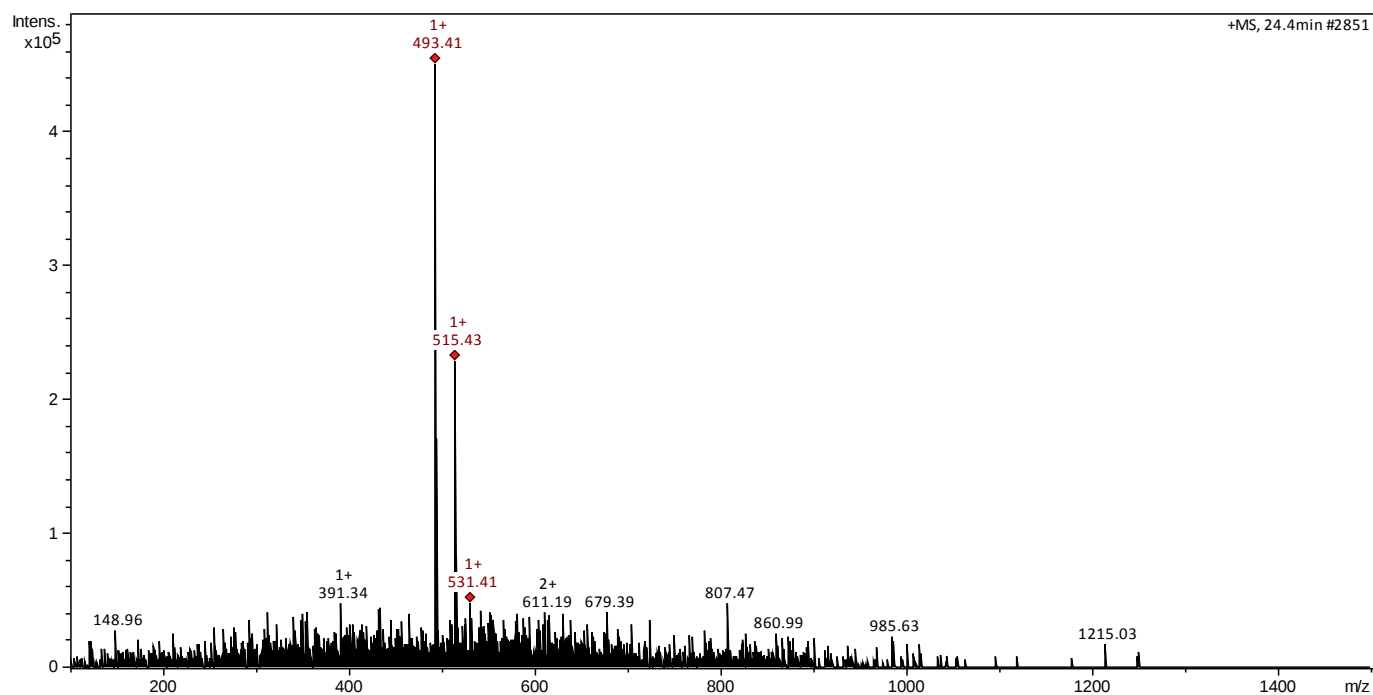
(+)-ESI-IT-MS spectra of quercetin (1) m/z 303.11 $[M+H]^+$



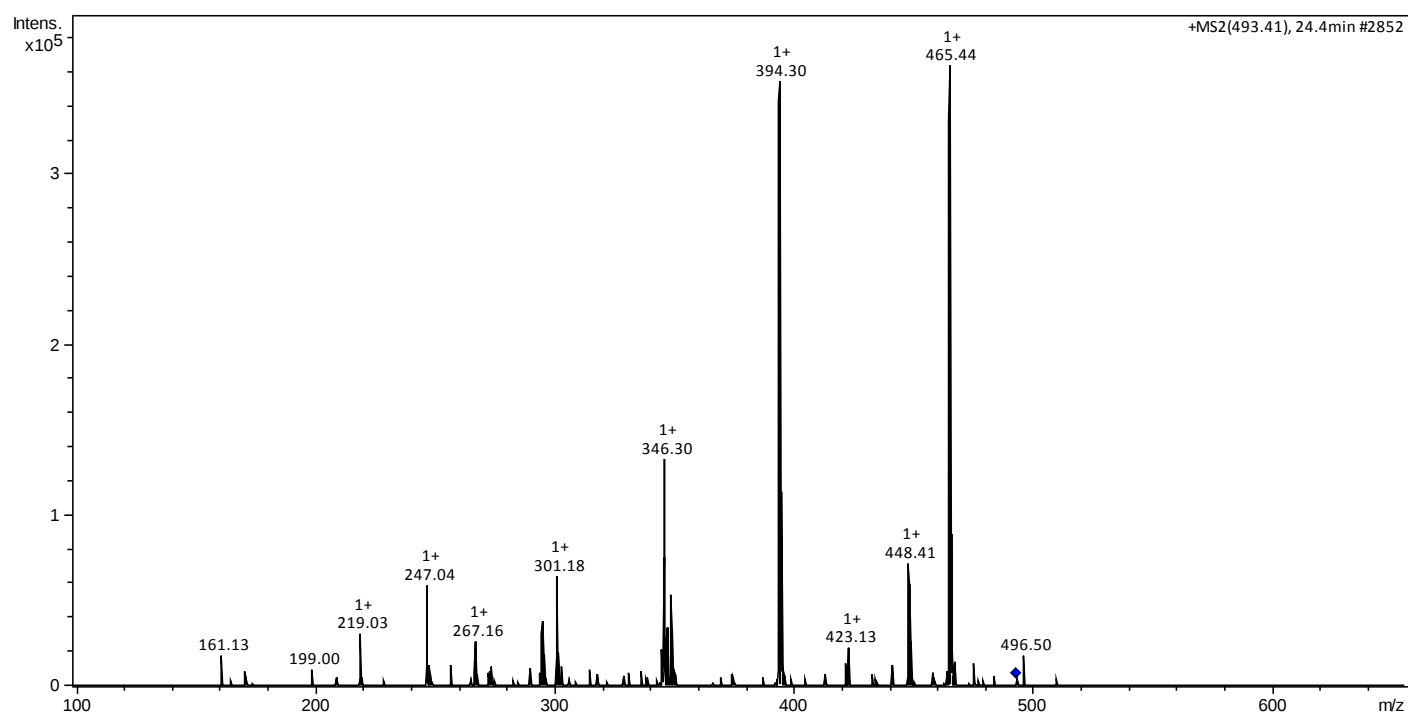
(+)-ESI-IT-MS/MS spectra of quercetin (1) m/z 303.11 $[M+H]^+$



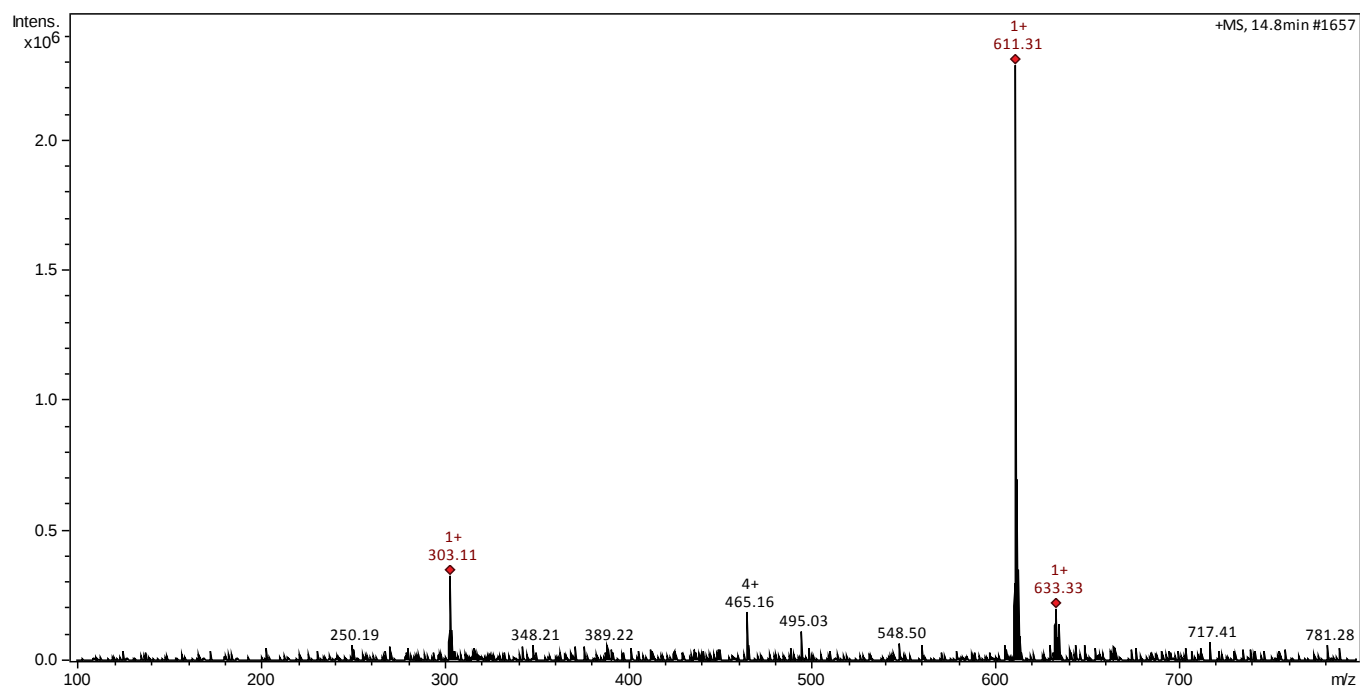
(+)-ESI-IT-MS spectra of plumieride (2) m/z 493.41 $[M+Na]^+$



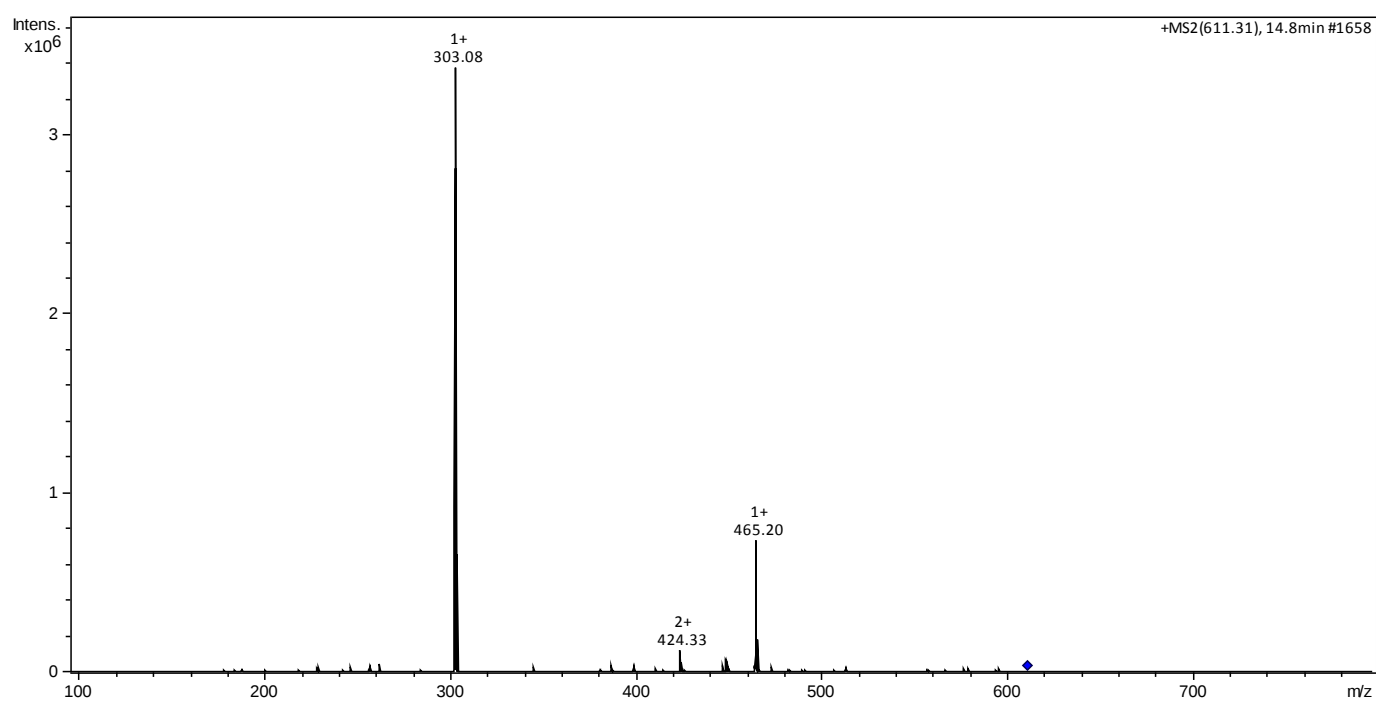
(+)-ESI-IT-MS/MS spectra of plumieride (2) m/z 493.41 $[M+Na]^+$



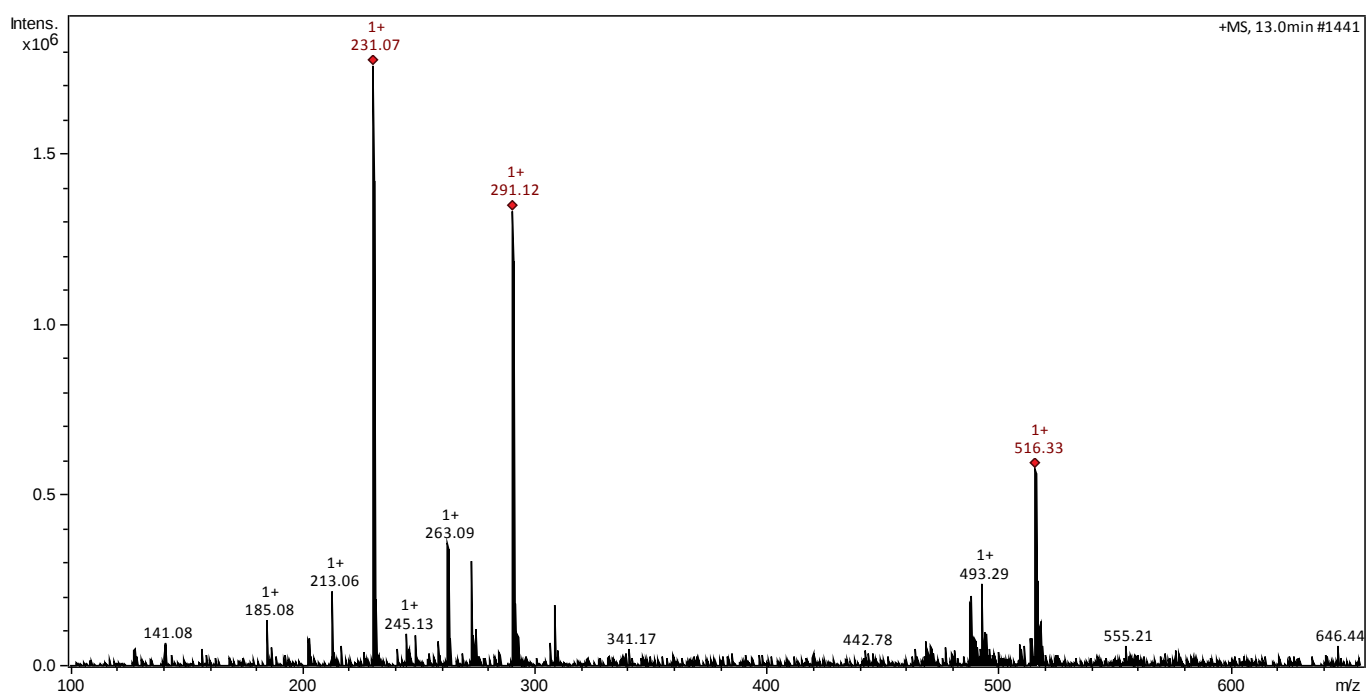
(+)-ESI-IT-MS spectra of rutin (3) m/z 611.31 $[M+H]^+$



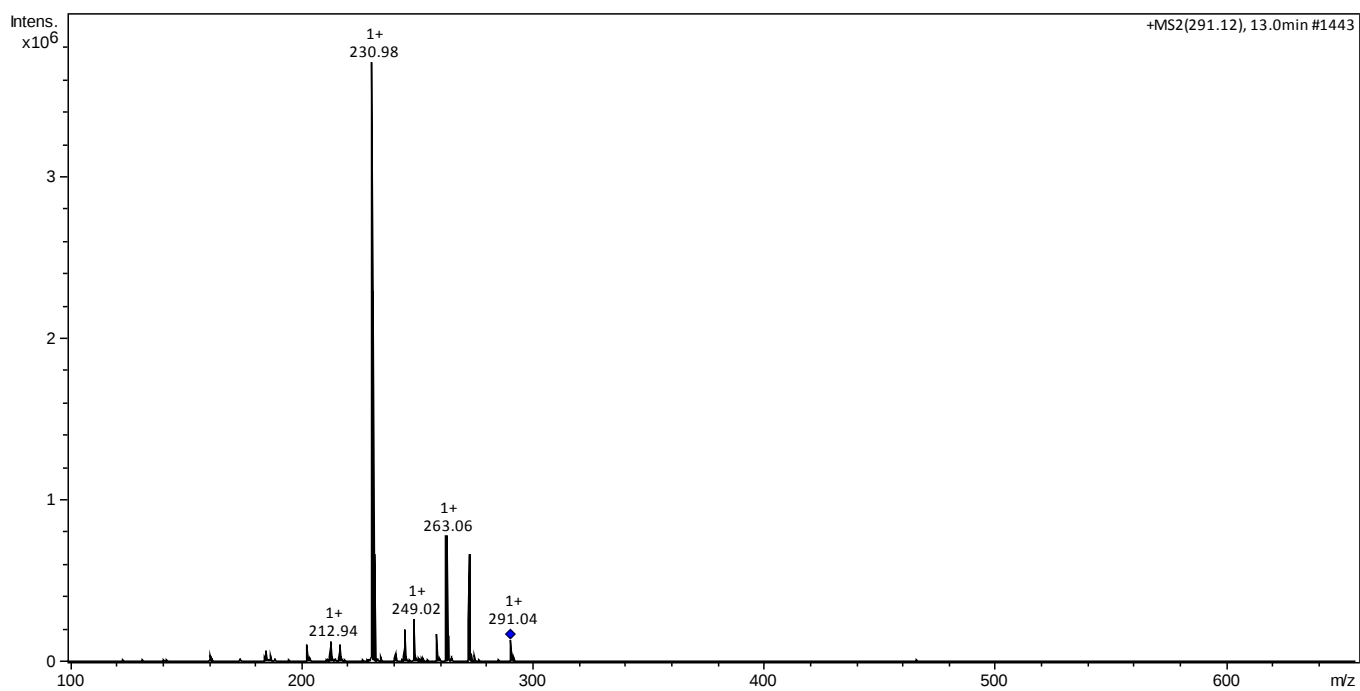
(+)-ESI-IT-MS/MS spectra of rutin (3) m/z 611.31 $[M+H]^+$



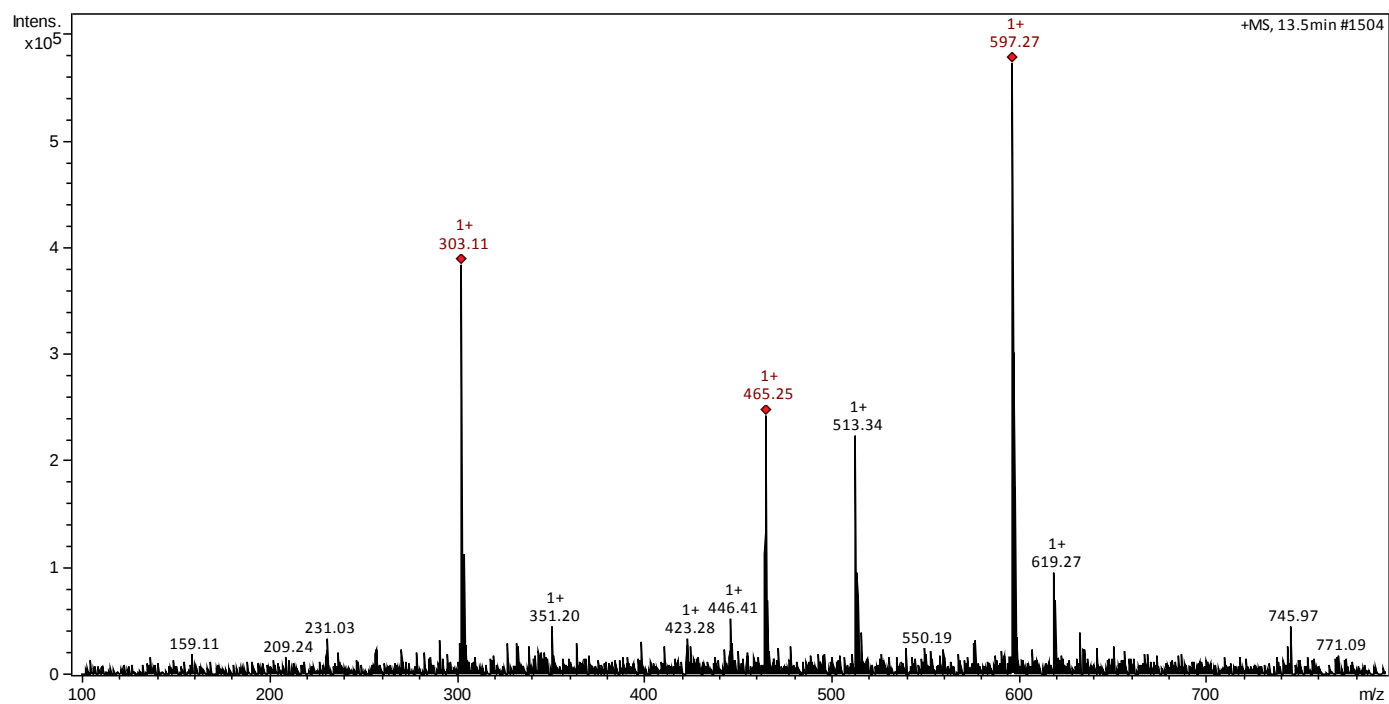
(+)-ESI-IT-MS spectra of plumerin (4) or isoplumericin (4) m/z 291.12 $[M+H]^+$.



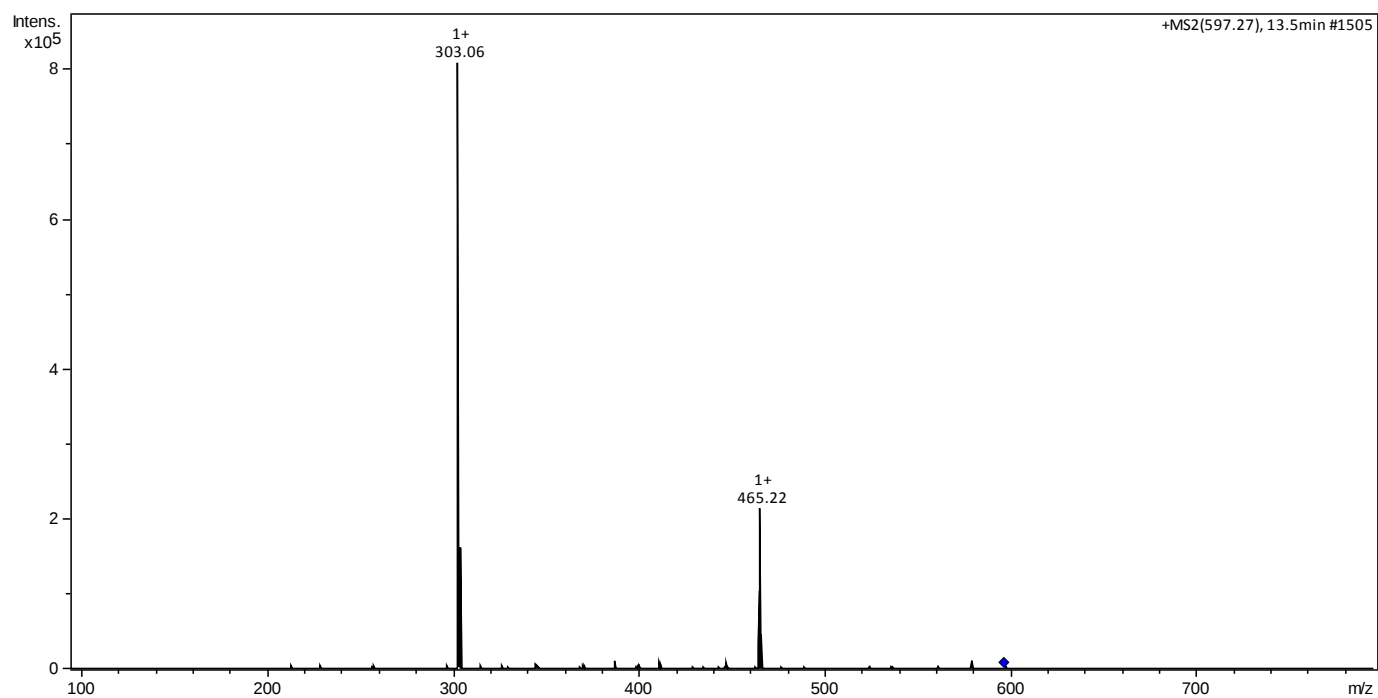
(+)-ESI-IT-MS/MS spectra of plumerin (4) or isoplumericin (4) m/z 291.12 $[M+H]^+$.



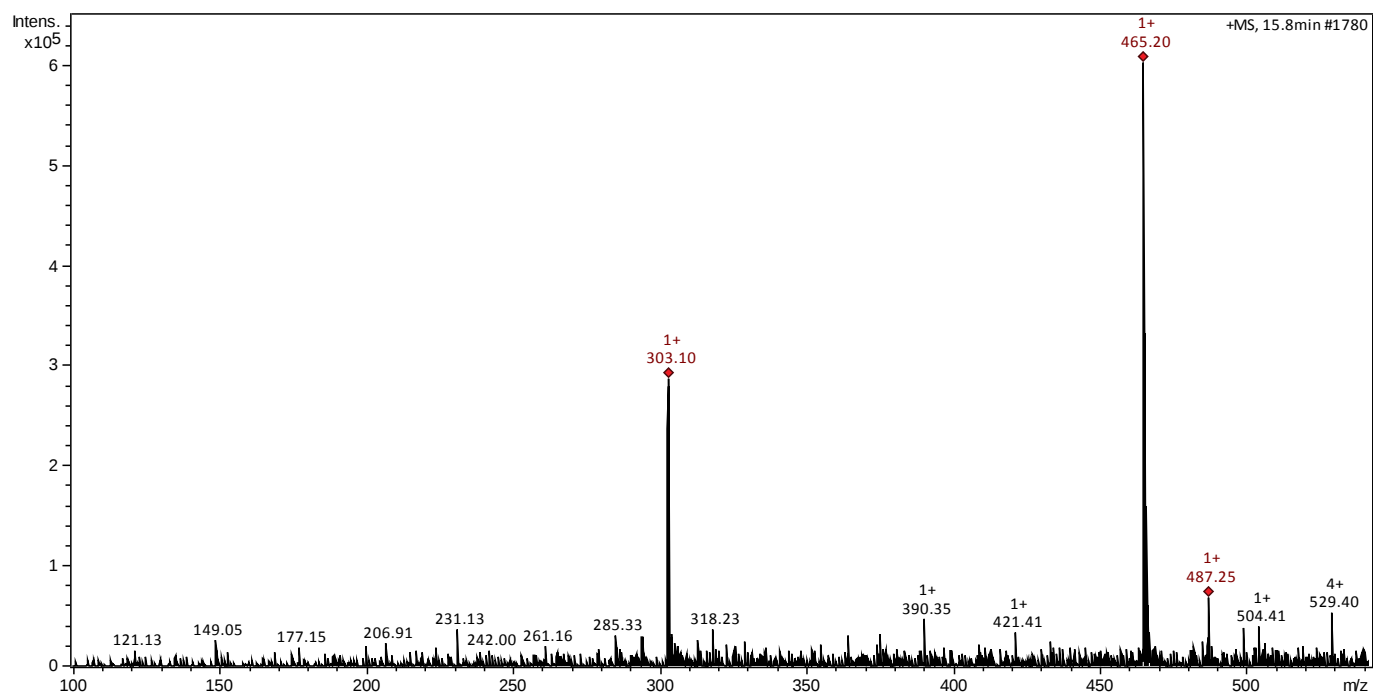
(+)-ESI-IT-MS/MS spectra of quercetin 3-lathyroside (5) or isomers m/z 597.27 $[M+H]^+$



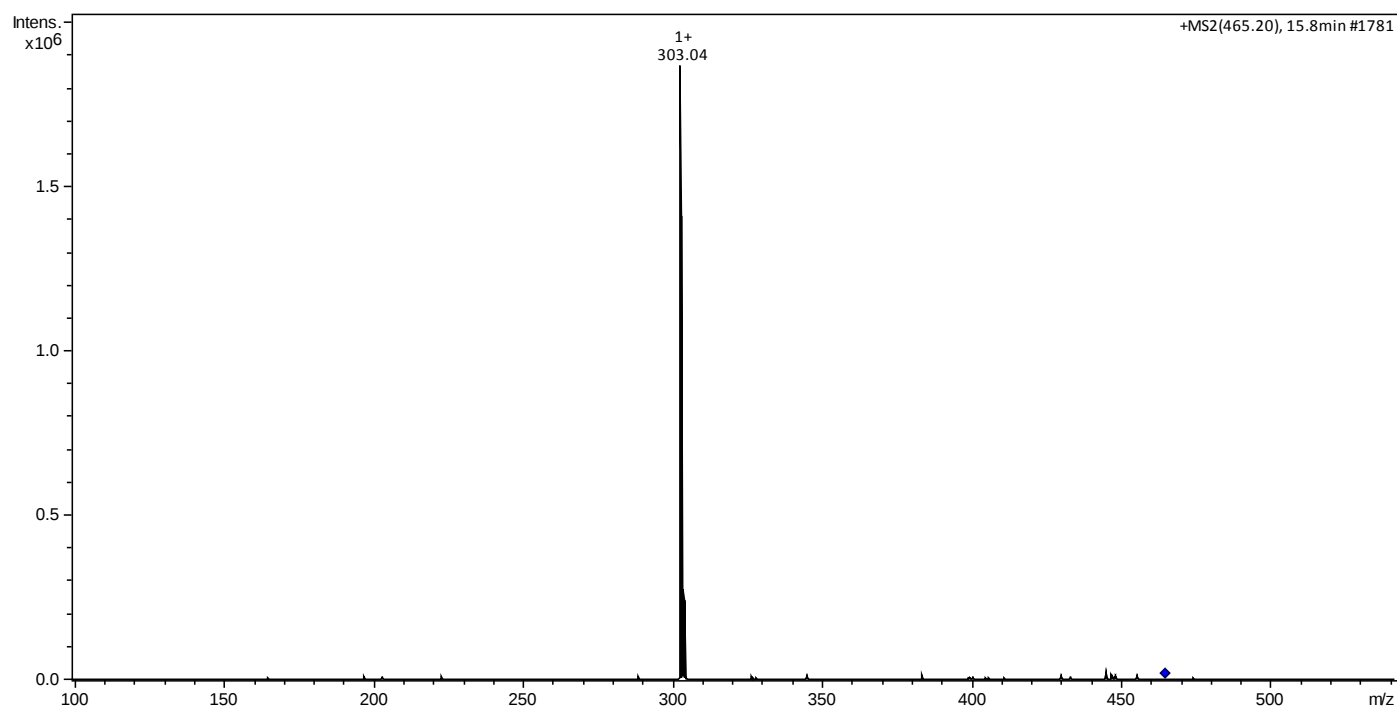
(+)-ESI-IT-MS/MS spectra of quercetin 3-lathyroside (5) or isomers m/z 597.27 $[M+H]^+$



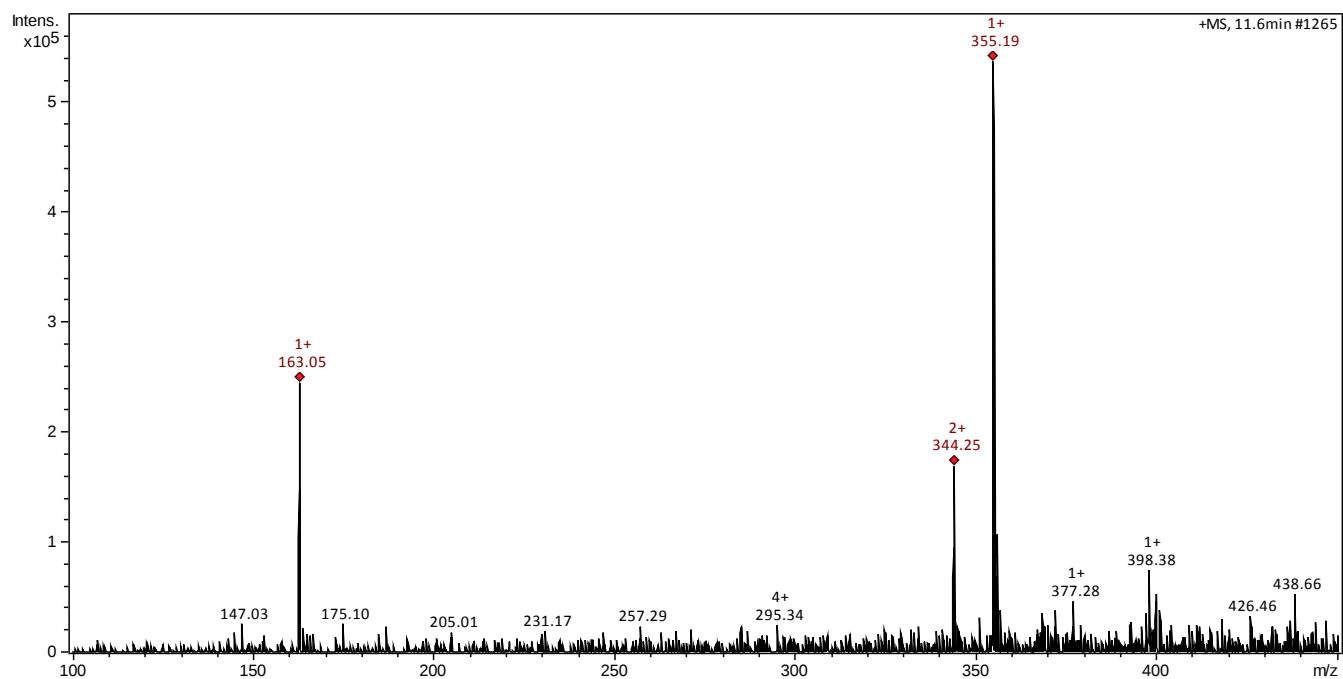
(+)-ESI-IT-MS spectra of isoquercitrin (6) or isomers m/z 465.20 $[M+H]^+$



(+)-ESI-IT-MS/MS spectra of isoquercitrin (6) or isomers m/z 465.20 $[M+H]^+$



(+)-ESI-IT-MS spectra of chrologenic acid (7) m/z 355.19 $[M+H]^+$



(+)-ESI-IT-MS/MS spectra of chrologenic acid (7) m/z 355.19 $[M+H]^+$

