

Table S1: Elemental compositions of **CP** and its metabolites (**M1-M17**) formed in liver and brain tissue homogenates.

CP & Metabolites	Rt (min)	Formula	Observed mass (Da)	Calculated mass (Da)	Error (ppm)	MS/MS fragment ions (Da)
CP	8.0	PtN ₂ H ₇ Cl ₂	300.9620	300.9626	-1.96	264.4732, 247.5031, 228.4812, 211.4922, 195.1754
M1	5.0	PtN ₂ H ₈ OCl	282.4860	282.4857	1.92	264.4732, 247.5031, 228.4812, 211.4922, 195.1754
M2	3.4	PtN ₂ H ₉ O ₂	264.4728	264.4719	3.21	246.5177, 228.4812, 211.4922, 195.1754
M3	1.9	PtN ₂ H ₉ O ₂	264.4728	264.4719	3.21	246.5177, 228.4812, 211.4922, 195.1754
M4	4.0	PtN ₂ H ₈ OCl	282.4860	282.4857	1.92	264.4732, 247.5031, 228.4812, 211.4922, 195.1754
M5	21.3	PtN ₃ H ₉ Cl	281.0134	281.0133	0.13	264.4732, 247.5031, 245.0632, 211.4922, 195.1754
M6	8.7	PtN ₃ H ₁₀ O	263.0473	263.0475	-0.41	245.0632, 228.4812, 211.4922, 195.1754
M7	18.2	PtCN ₃ H ₁₃ S	294.0546	294.0553	-3.17	246.0843, 229.0365, 212.0372, 195.1754
M8	11.8	PtN ₃ CH ₁₃ O	278.0973	278.0970	1.84	246.0843, 229.0365, 212.0372, 195.1754
M9	25.9	PtCN ₂ H ₁₀ OCl	296.0145	296.0153	-4.31	264.4732, 228.4812, 211.4922, 195.1754
M10	12.7	PtCN ₃ H ₁₂ O	277.0634	277.0638	-1.31	260.0711, 228.4812, 211.4922, 195.1754
M11	5.8	PtCN ₂ H ₁₁ O ₂	278.0641	278.0645	-2.42	260.0711, 228.4812, 211.4922, 195.1754
M12	26.5	PtCN ₂ H ₁₀ SCl	312.0596	312.0599	-1.11	264.4732, 228.4812, 211.4922, 195.1754
M13	6.8	PtCN ₂ H ₁₁ SO	294.0411	294.0416	-2.16	276.4819, 246.5177, 228.4812, 211.4922, 195.1754
M14	16.0	PtCN ₃ H ₁₂ S	293.0275	293.0282	-4.15	245.0632, 228.4812, 211.4922, 195.1754
M15	22.1	PtC ₂ N ₂ H ₁₃ S ₂	324.0613	324.0618	-3.36	276.0728, 228.4812, 211.4922, 195.1754
M16	22.8	PtC ₂ N ₃ H ₁₅ S	308.0861	308.0866	3.41	246.0843, 229.0365, 212.0372, 195.1754
M17	23.7	PtC ₄ N ₂ H ₁₈ S ₂	353.0816	353.0820	2.96	291.0721, 229.0365, 212.0372, 195.1754

Table S2: Elemental compositions of fragment ions of **CP** and its metabolites, **M1-M17**

Fragment ions of CP and its metabolites	Formula	Observed mass (Da)	Calculated mass (Da)	Error(ppm)
	PtN ₂ H ₆ Cl	264.4732	264.4736	2.41
	PtNH ₃ Cl	247.5031	247.5035	1.97
	PtN ₂ H ₅	228.4812	228.4817	3.08
	PtNH ₂	211.4922	211.4920	-0.36
	PtN ₂ H ₇ O	246.5177	246.5180	1.88
	PtN ₃ H ₈	245.0632	245.0635	1.92
	PtN ₃ H ₉	246.0843	246.0846	2.28
	PtN ₂ H ₆	229.0365	229.0370	3.22
	PtNH ₃	212.0372	212.0375	1.54
	PtCN ₂ H ₉ O	260.0711	260.0708	-1.33
	PtCN ₂ H ₉ S	276.4819	276.4813	-4.36
	PtC ₂ N ₂ H ₁₂ S	291.0721	291.0718	-2.09
	PtCN ₂ H ₉ S	276.0728	276.0731	1.67

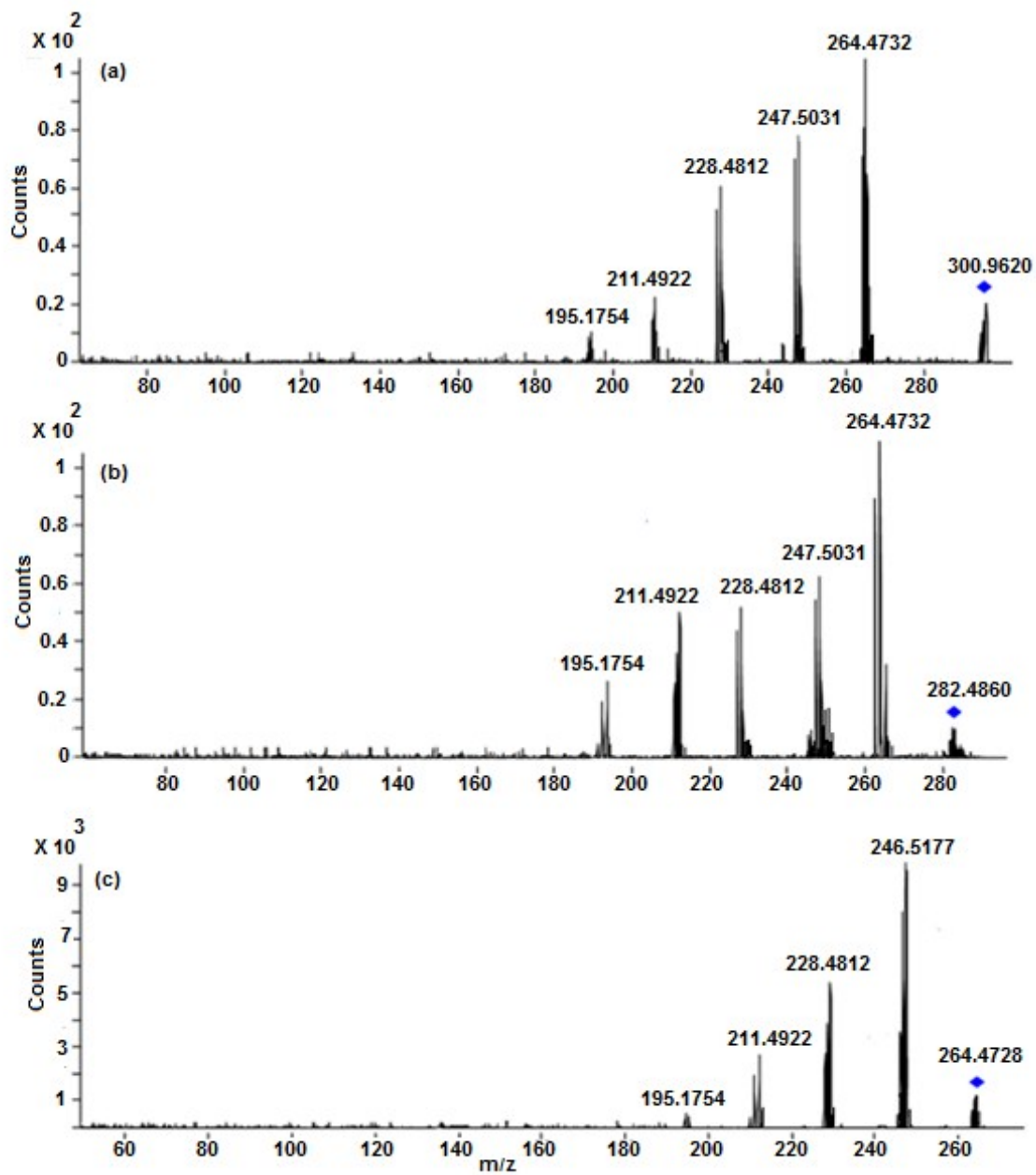


Figure S1. LC/ESI-MS/MS spectra of (a) CP (b) M1 and (c) M2 at 30 eV.

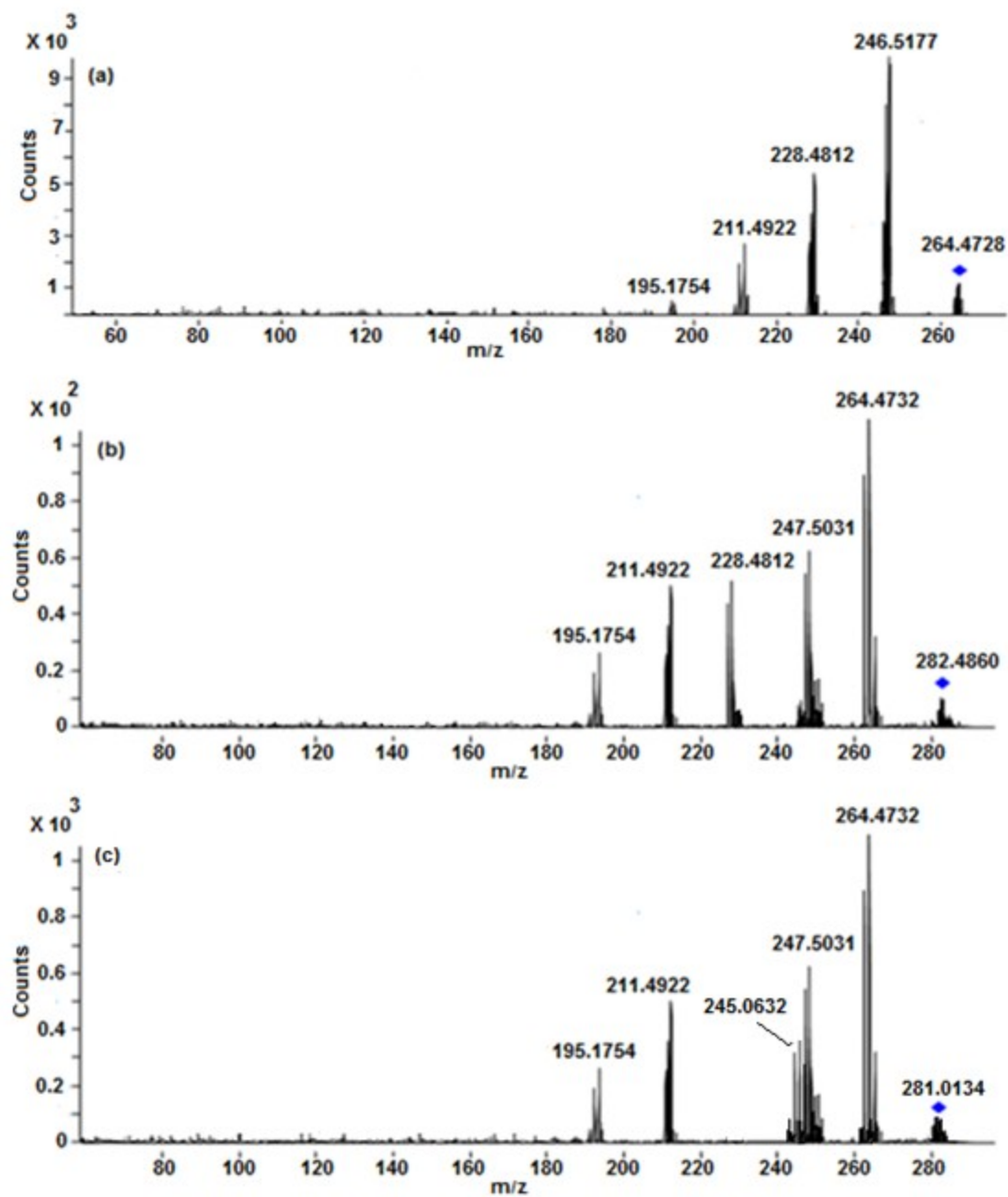


Figure S2. LC/ESI-MS/MS spectra of (a) M3 (b) M4 and (c) M5 at 29 eV.

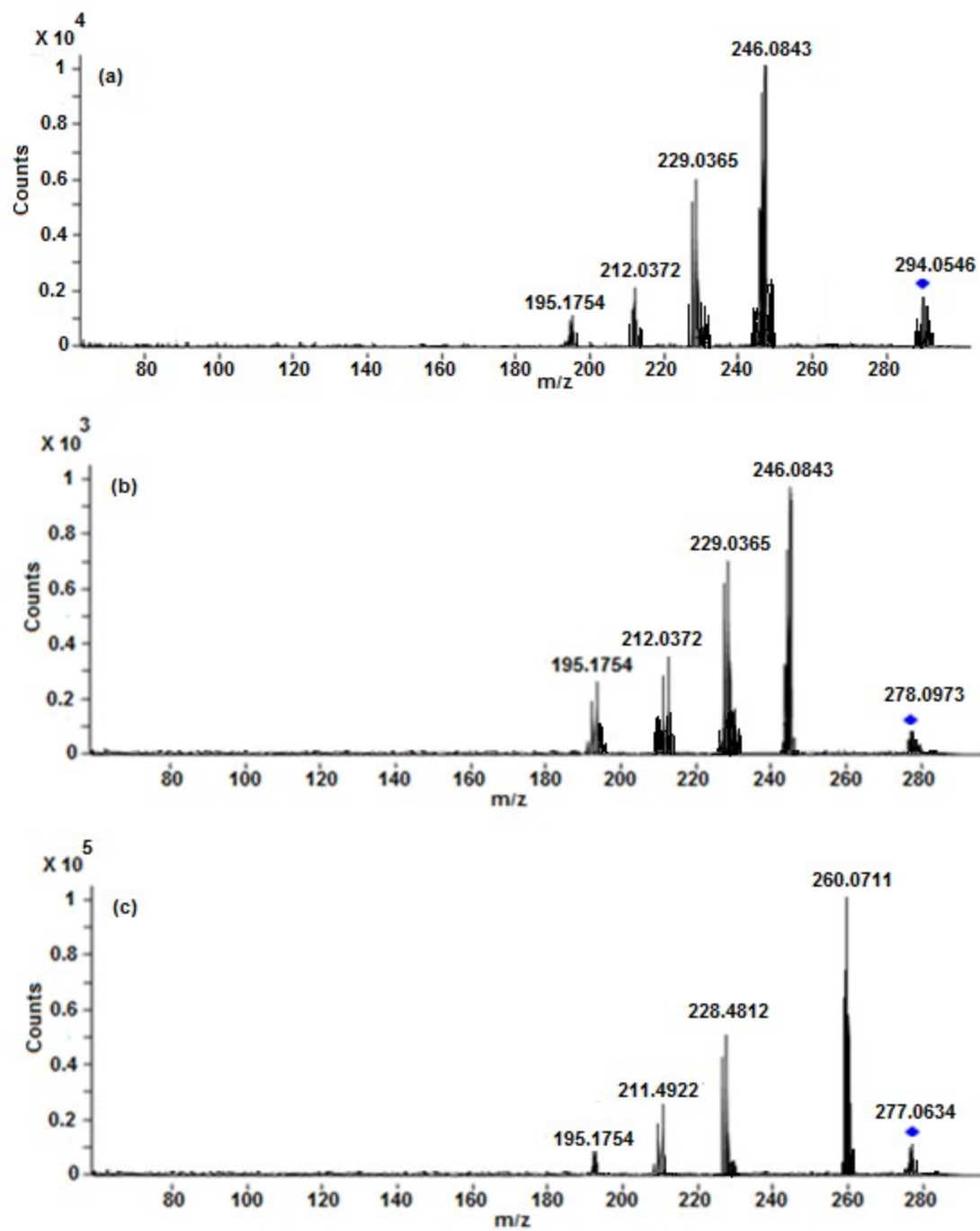


Figure S3. LC/ESI-MS/MS spectra of (a) M7 (b) M8 and (c) M10 at 33 eV.

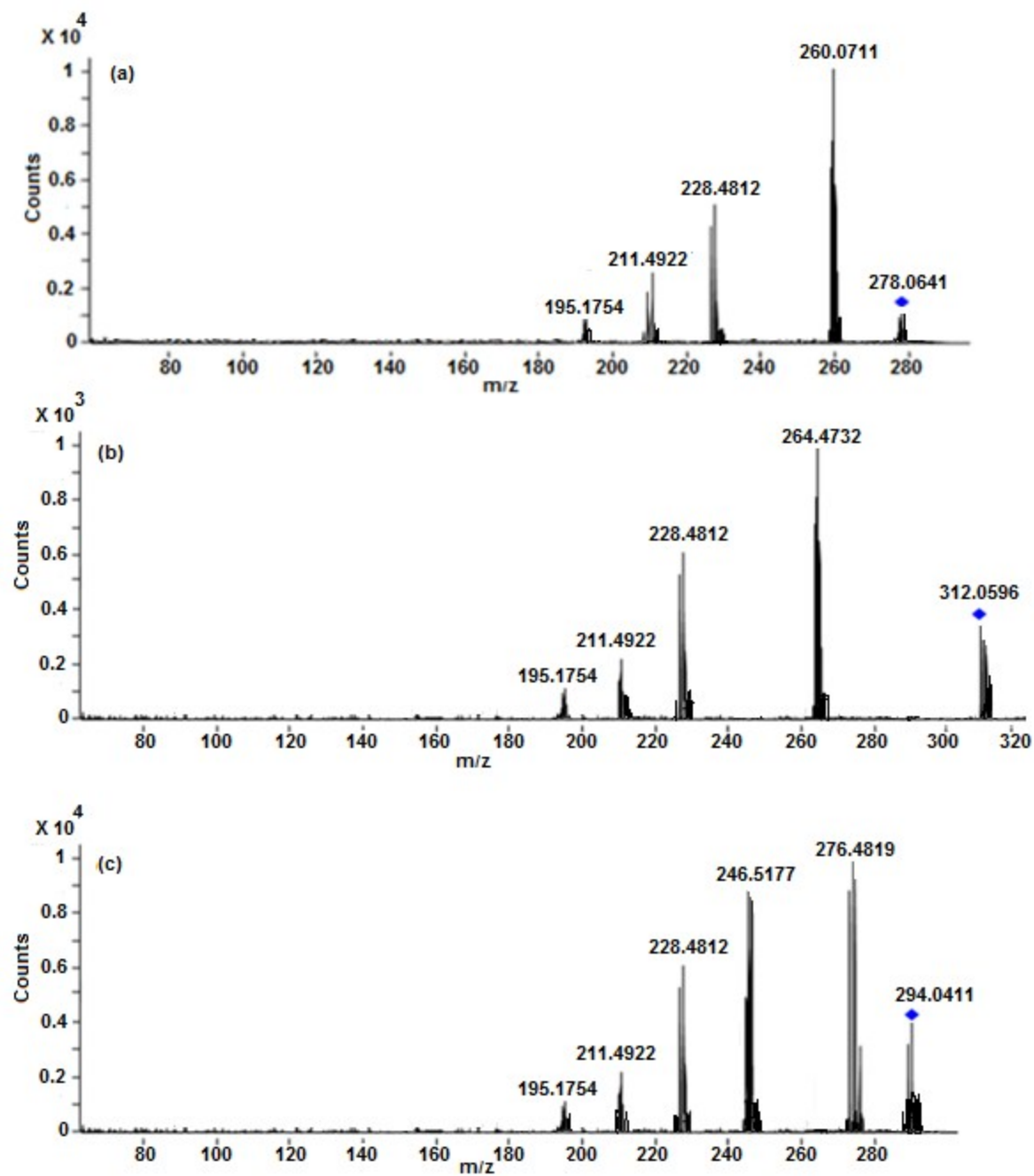


Figure S4. LC/ESI-MS/MS spectra of (a) M11 (b) M12 and (c) M13 at 27 eV.

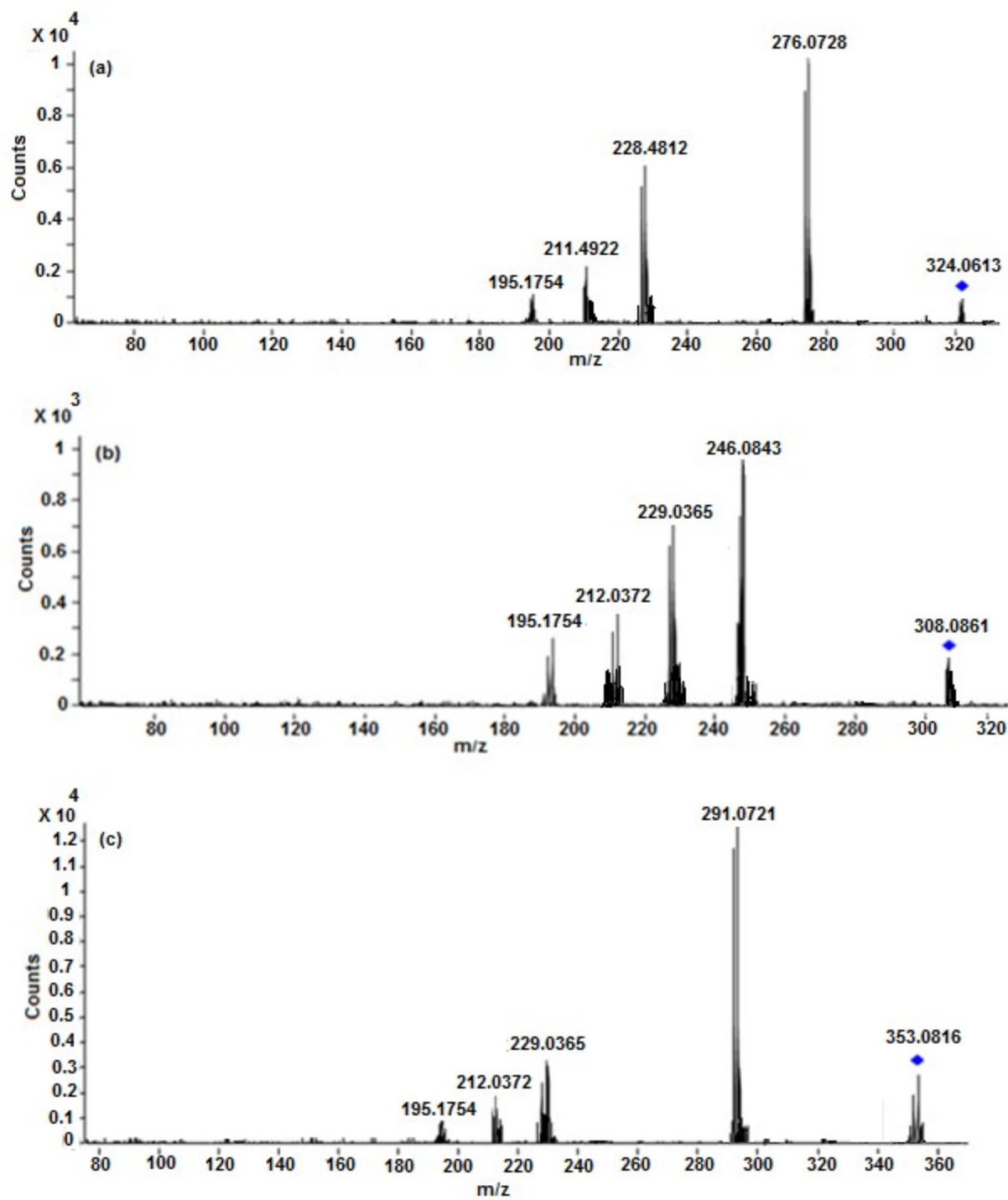


Figure S5. LC/ESI-MS/MS spectra of (a) M15 (b) M16 and (c) M17 at 34 eV.