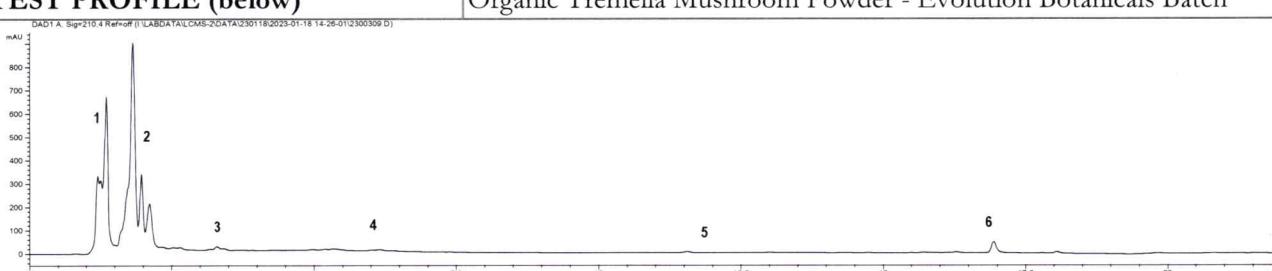


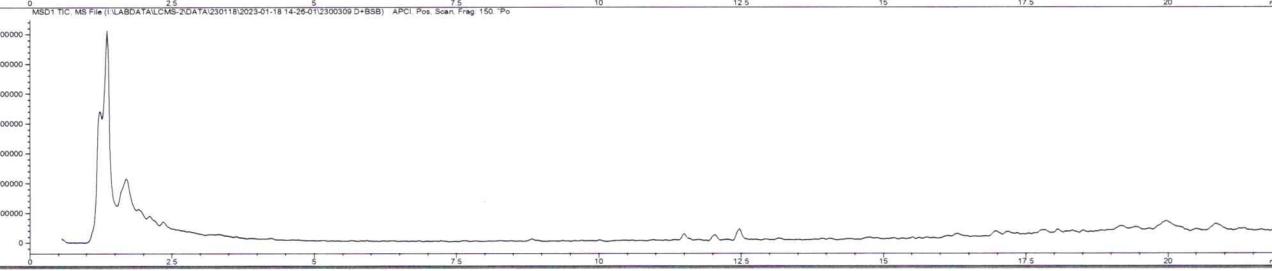
CERTIFICATE OF ANALYSIS

SAMPLE NAME	Organic Tremella Mushroom Powder - Evolution Botanicals		
FORM	Powder		
CUSTOMER NAME	Evolution Botanicals Australia PTY LTD		
CERTIFICATION DATE	22 February 2023		
CUSTOMER REFERENCE	Batch Evolution Botanicals 079 BBD 12/12/24		
ARL JOB #	A230089	LAB REF. #	ARL2300309
ANALYSIS	HPLC profile	METHOD	ARL-TM125
TEST PROFILE (below)	Organic Tremella Mushroom Powder - Evolution Botanicals Batch		

MSD1 A: Sig=210.4 Ref=off (I:\LABDATA\CMS-2\DATA\230118\2023-01-18 14-26-01\2300309.D) APCI Pos. Scan Freq 150 Po



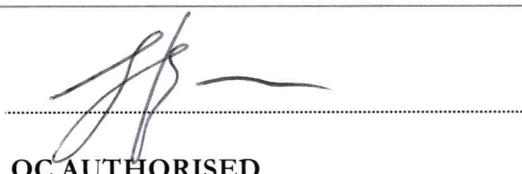
MSD1 TIC. MS File I:\LABDATA\CMS-2\DATA\230118\2023-01-18 14-26-01\2300309.D APCI Pos. Scan Freq 150 Po


TABLE 1. PEAK IDENTIFICATION

Peak #	RT (min)	Fragment ions [M+H]	Tentative ID (MW)
1	1.2 - 1.4	12, 136, 268, 294, 166, 182, 230	mixed peaks - amino acids, polysaccharides, nucleotides
2	1.8 - 2.1	136, 268, 166, 298, 214, 260	mixed peaks - amino acids, polysaccharides, nucleotides
3	3.3	-	phenolic acid derivatives
4	6.0	-	phenolic derivatives
5	11.5, 12.0, 12.5	478, 454, 480	amine derivatives
6	16.9	670, 684	fungal cerebrosides, fatty acid derivatives

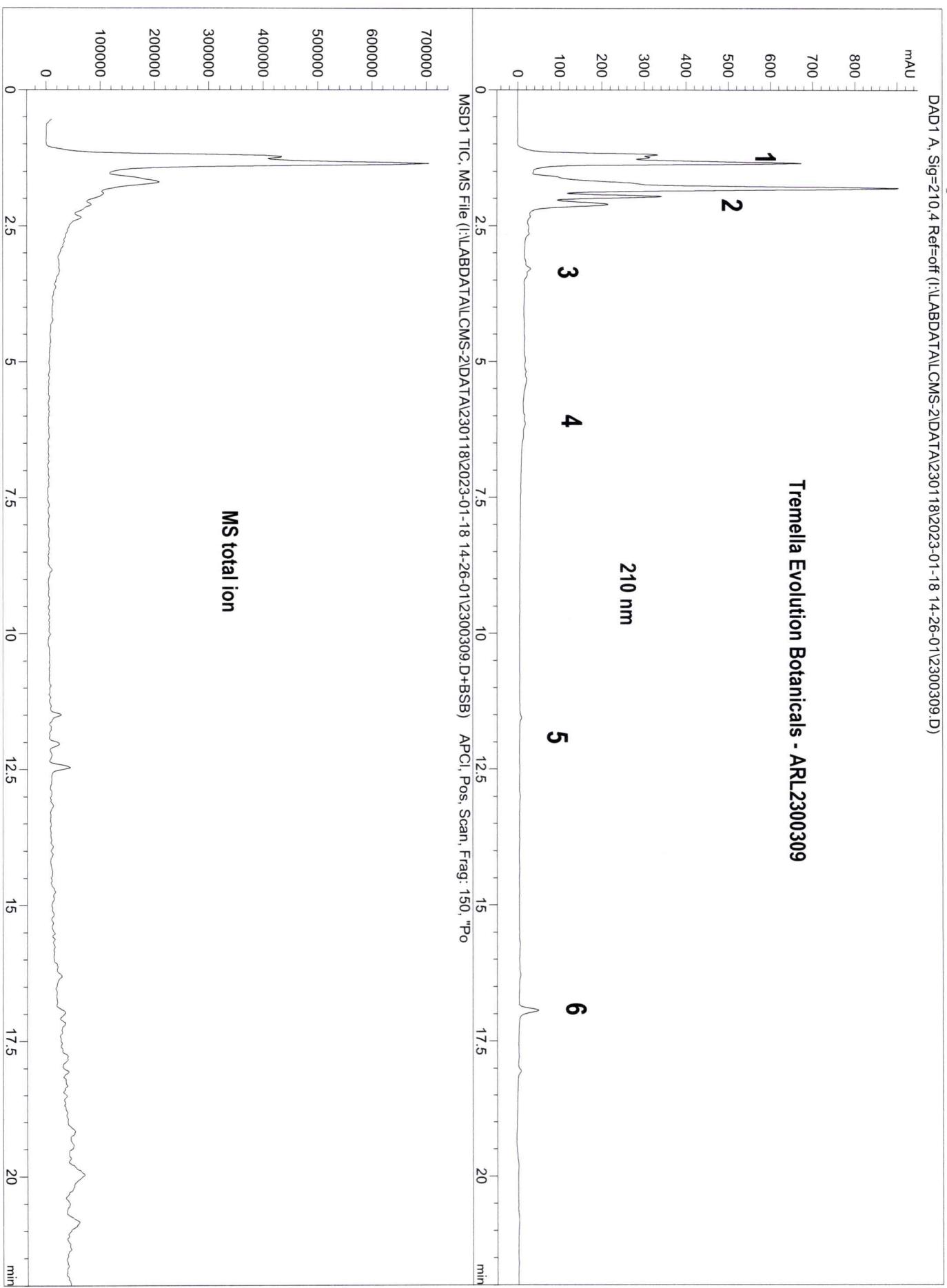
COMMENTS

The HPLC-MS profile of the test sample Batch Evolution Botanicals 079 BBD 12/12/24 is given above with some major components from the extract indicated. The main peaks appear consistent with amine derivatives, including nucleotides and amino acids, with polysaccharides and some phenolic and phenolic acid derivatives based on characteristic spectra. The primary constituents previously identified in *Tremella fuciformis* fungi have been polysaccharides with low levels of phenolics constituents. Spectral data in support of peak identification is attached.


QC AUTHORISED
Reference: Dictionary of Natural Products, CRC Press, 2020

Current Chromatogram(s)
DAD1 A, Sig=210.4 Ref=off (I:\LABDATA\LCMS-2\DATA\230118\2023-01-18 14-26-01\2300309.D)

Tremella Evolution Botanicals - ARL2300309



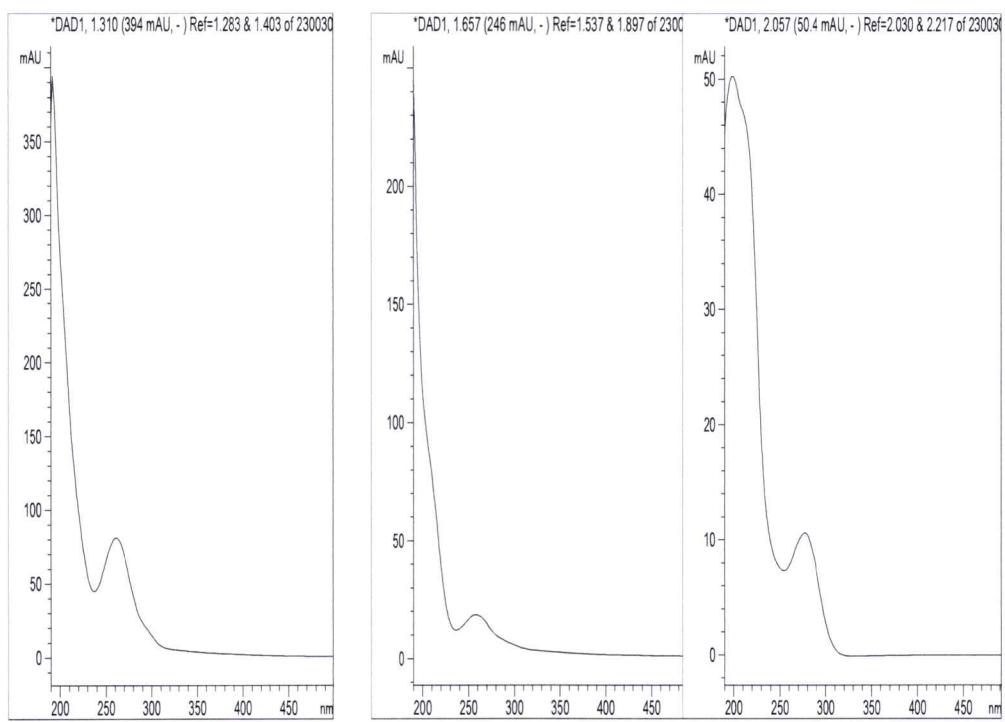


Figure 1. UV-Vis spectra from peaks #1 and #2 identifeid as likely nucelotides based on characteristic spectra

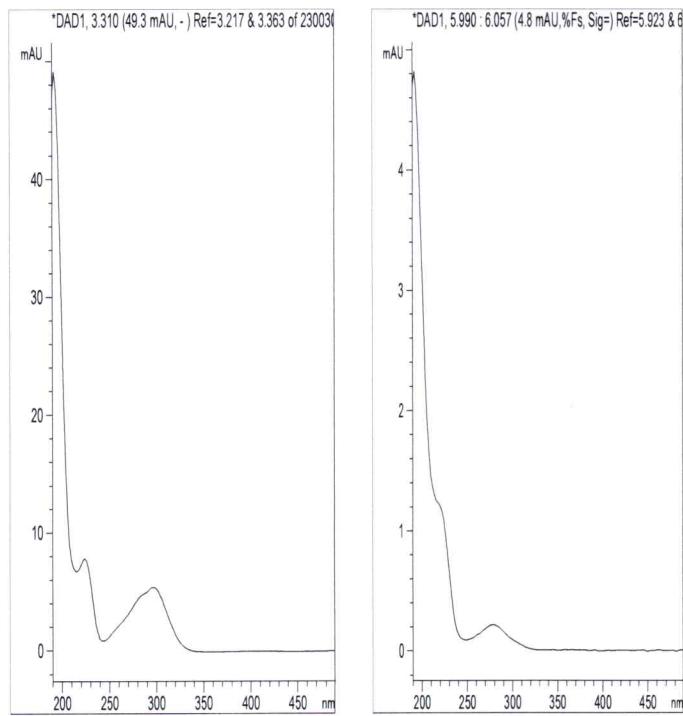


Figure 2. UV-Vis spectra of peaks #3 and #4 identifeid as phenolic acid and simple phenolic derivatives based on characteristic spectra

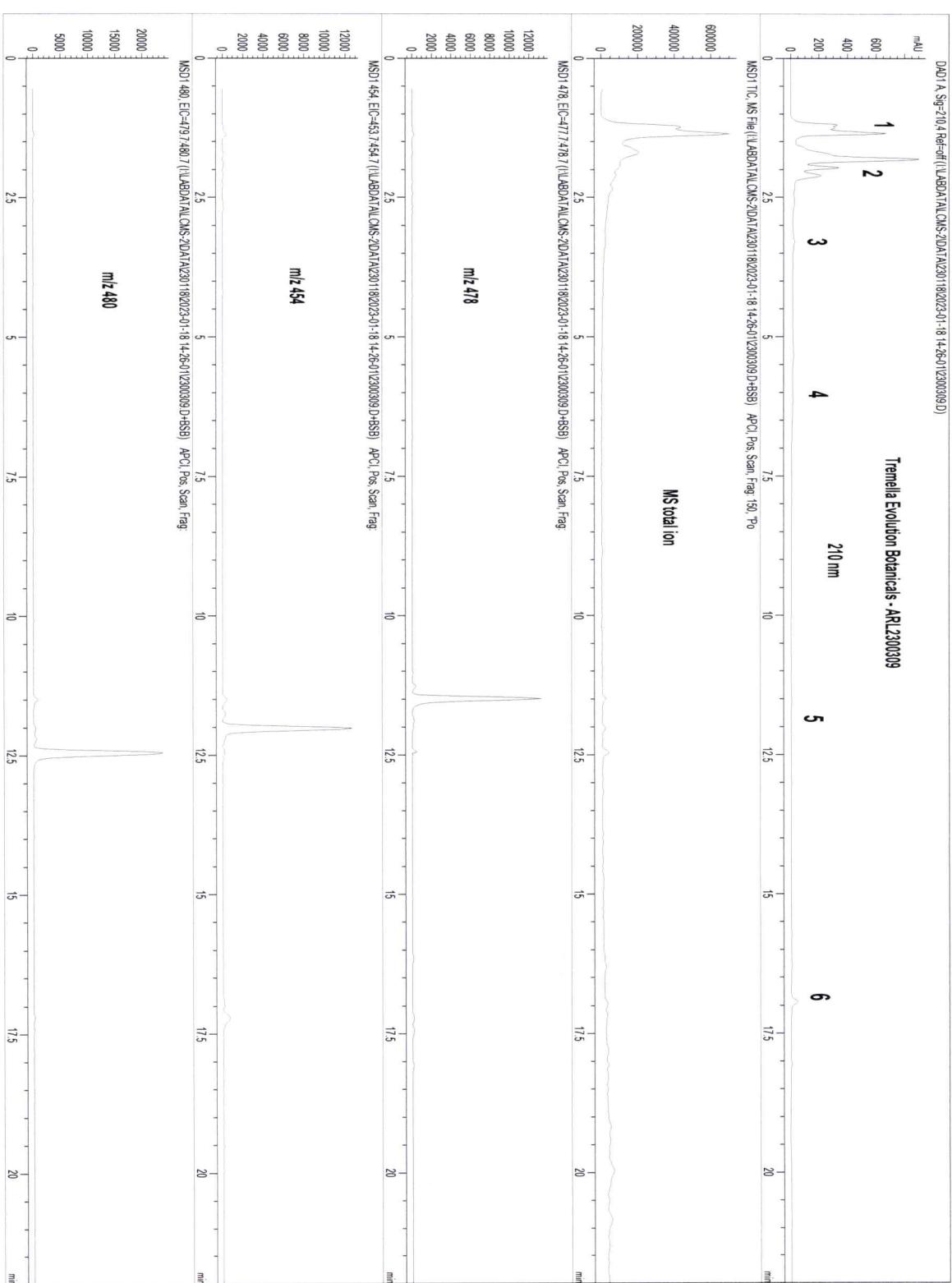


Figure 3. Extracted ion chromatogram for peaks #5, m/z 478, 454 and 480 from *Tremella* ARL2300309 tentatively identified as unknown amine derivatives