

**Table S1**

Composition of SJIT.

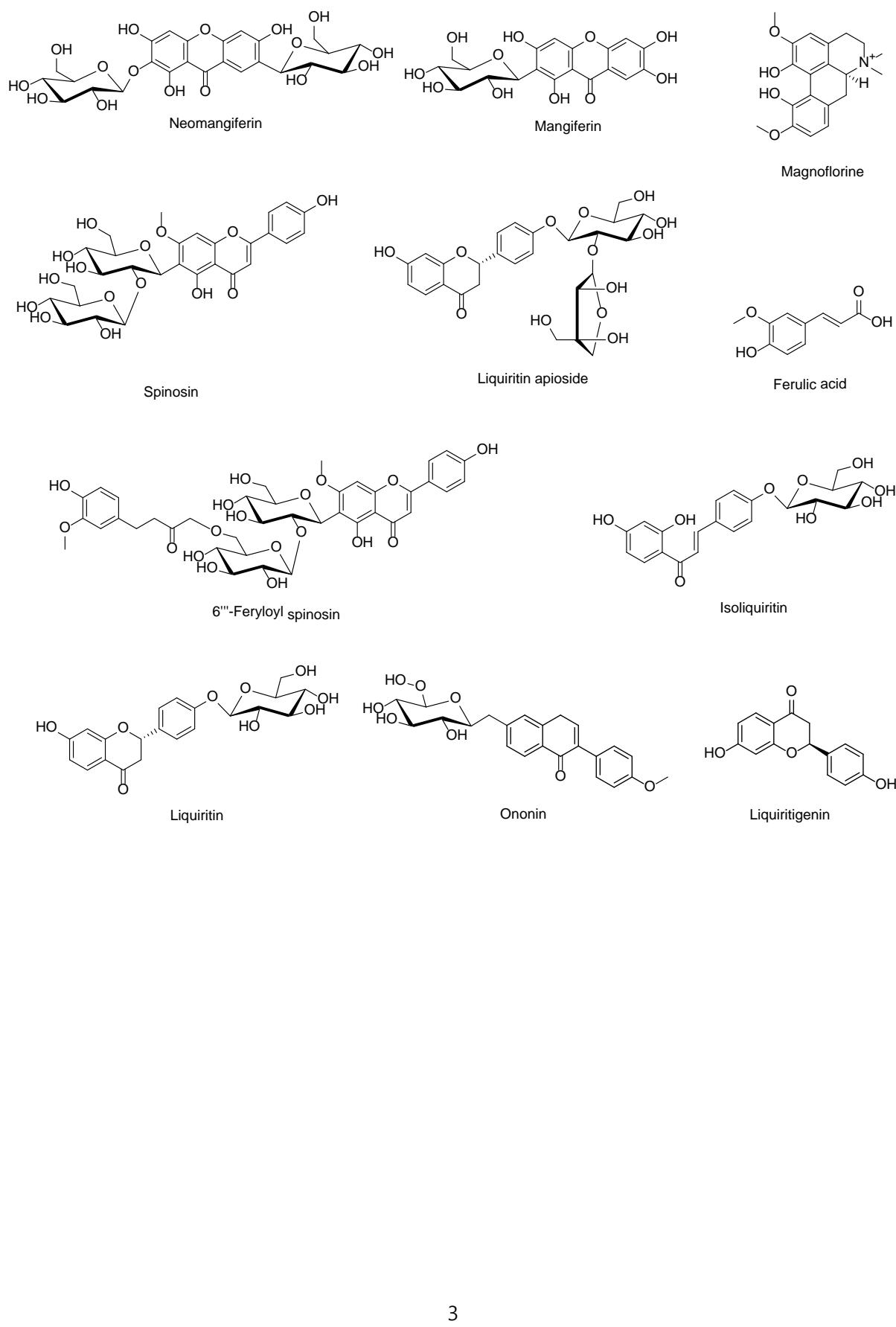
<b>Herbal medicine</b>	<b>English name</b>	<b>Scientific name</b>	<b>Family</b>	<b>Using part</b>	<b>Origin</b>	<b>Amount (g)</b>
Ziziphi Semen	Ziziphus Seed	<i>Ziziphus jujuba</i> Mill.	Rhamnaceae	Seed	China	2666.67
Cnidii Rhizoma	Cnidium Rhizome	<i>Cnidium officinale</i> Mak.	Umbelliferae	Rhizome	Yeongyang, Korea	666.67
Anemarrhenae Rhizoma	Anemarrhena Rhizome	<i>Anemarrhena asphodeloides</i> Bunge	Asparagaceae	Rhizome	Uiryeong, Korea	666.67
Poria Sclerotium	Poria	<i>Poria cocos</i> Wolf	Polyporaceae	Sclerotium	Bonghwa, Korea	666.67
Glycyrrhizae Radix et Rhizoma	Licorice	<i>Glycyrrhiza uralensis</i> Fisch.	Leguminosae	Root and rhizome	China	333.32
					Total	5000.00

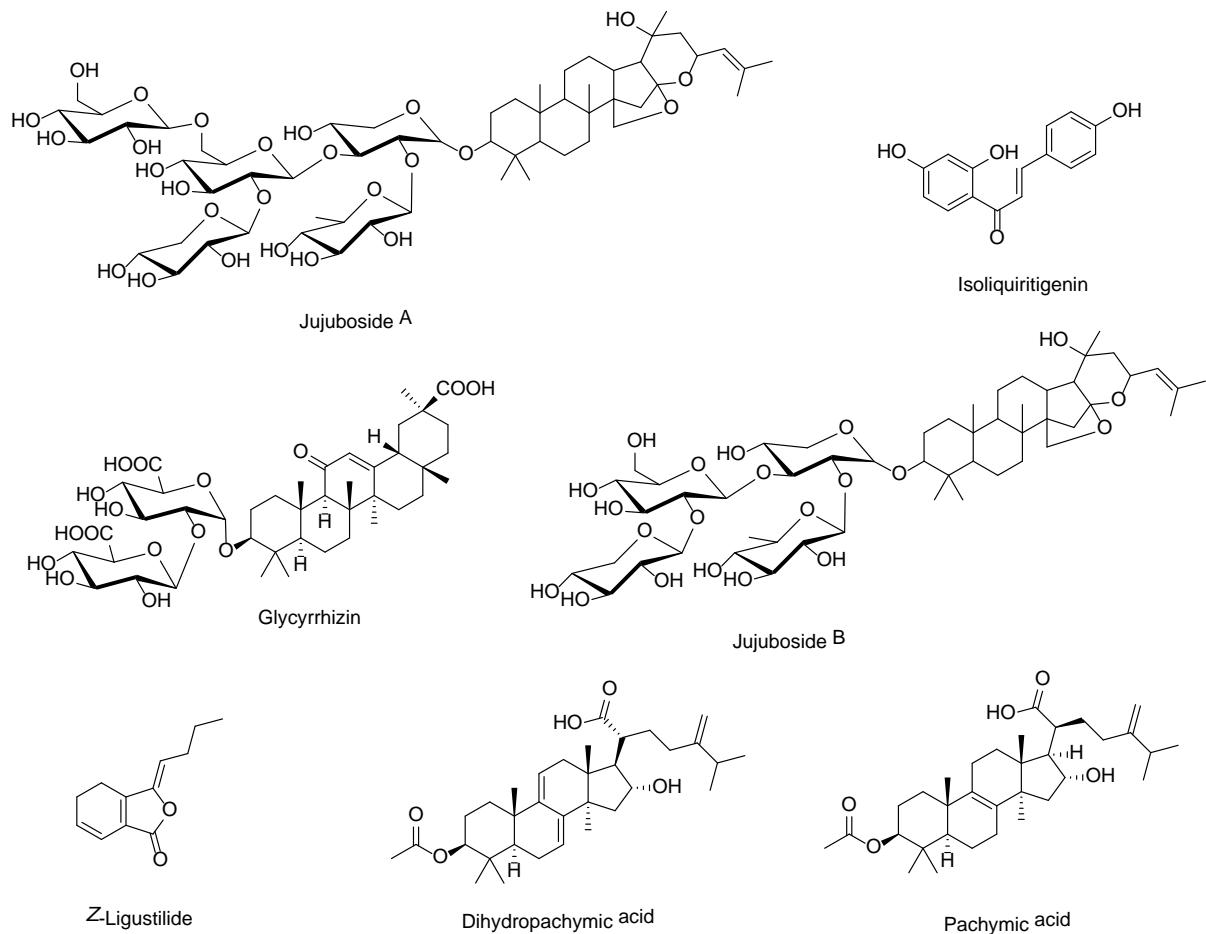
**Table S2**

LC-MS/MS MRM analysis conditions for quantification of markers in SJIT.

<b>UPLC conditions</b>		<b>MS conditions</b>	
UPLC system	Acquity UPLC I-Class	MS system	Xevo TQ-XS
Column	Acquity UPLC BEH C <sub>18</sub> column (2.1 mm × 100 mm, 1.7 µm)	MS software	MassLynx v4.2
Column temp.	45 °C	Ion source	ESI <sup>+</sup> or ESI <sup>-</sup>
Sample temp.	5 °C	Acquisition mode	MRM
Injection volume	2.0 µL	Capillary voltage	3.0 kV
Flow rate	0.3 mL/min	Cone gas flow	50 L/h
Mobile phase A	0.1% (v/v) aqueous formic acid	Desolvation gas flow	700 L/h
Mobile phase B	Acetonitrile	Desolvation temp.	500 °C
<hr/>			
Gradient	Time (min)	A (%)	B (%)
	Initial	80	20
	14.0	5	95
	15.0	0	100
	15.1	80	20
	18.0	80	20

ESI; electrospray ionization, MRM; multiple reaction monitoring





**Figure S1.** Chemical structures of the eighteen target components in SJIT.

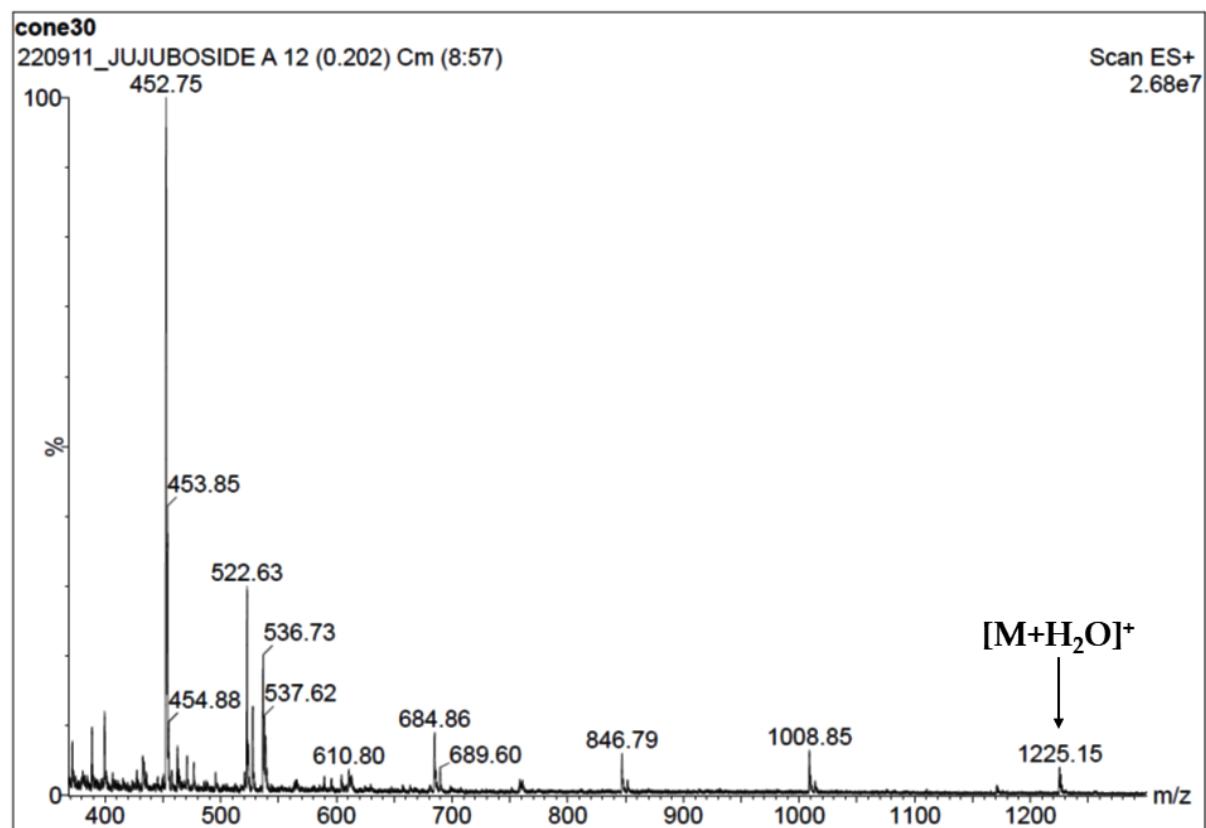
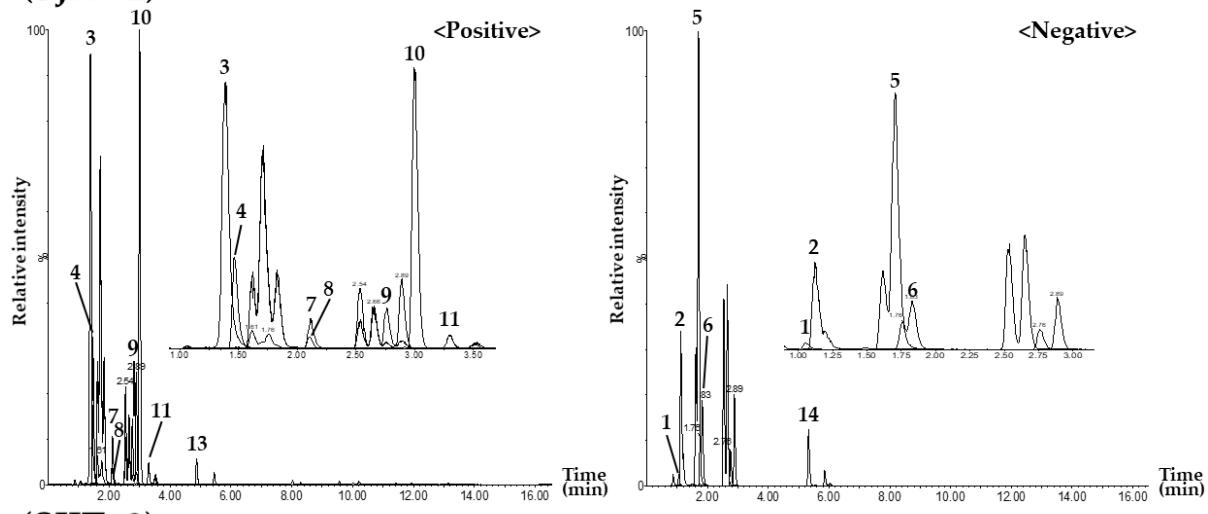
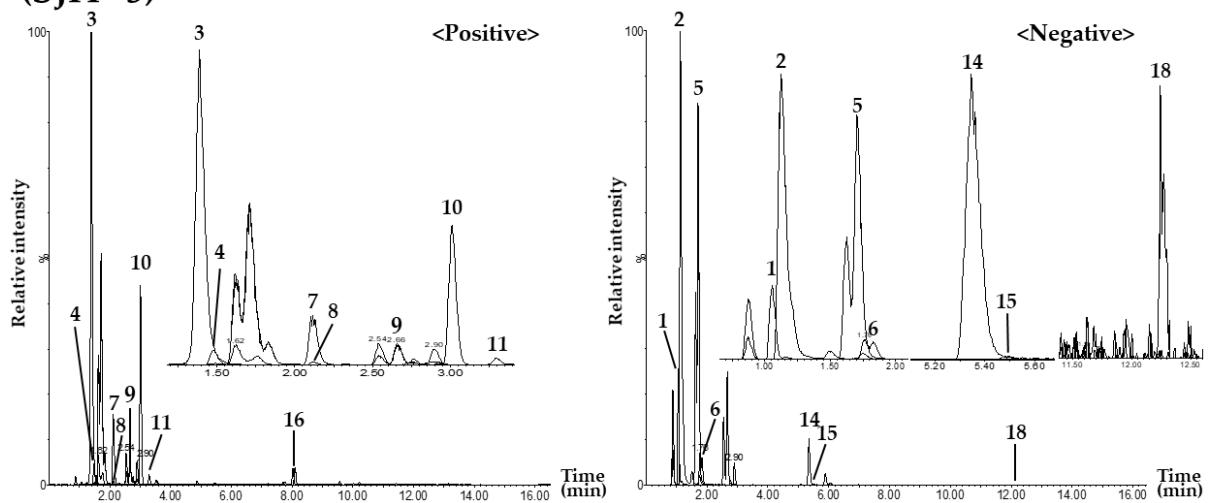
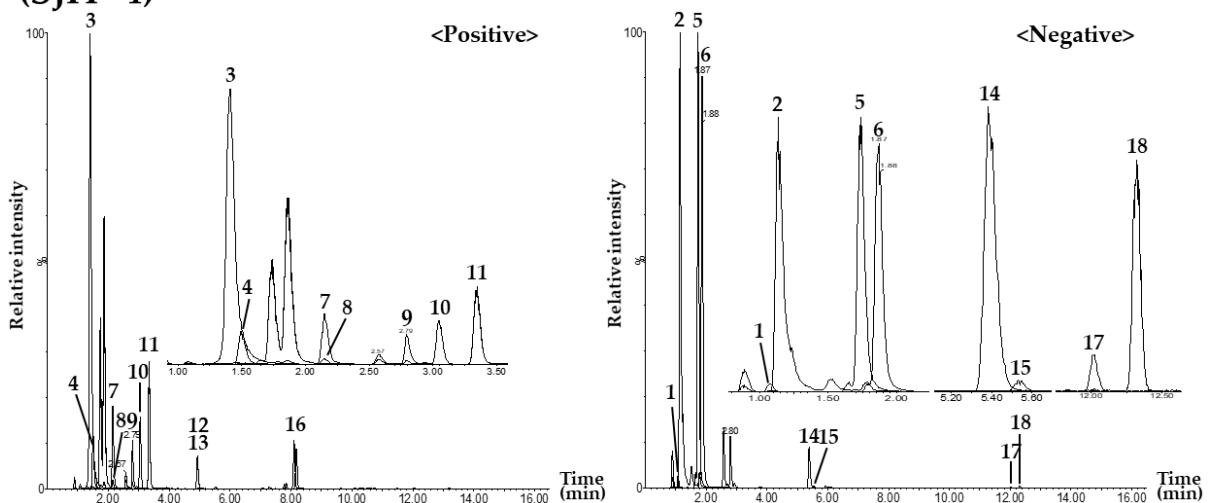


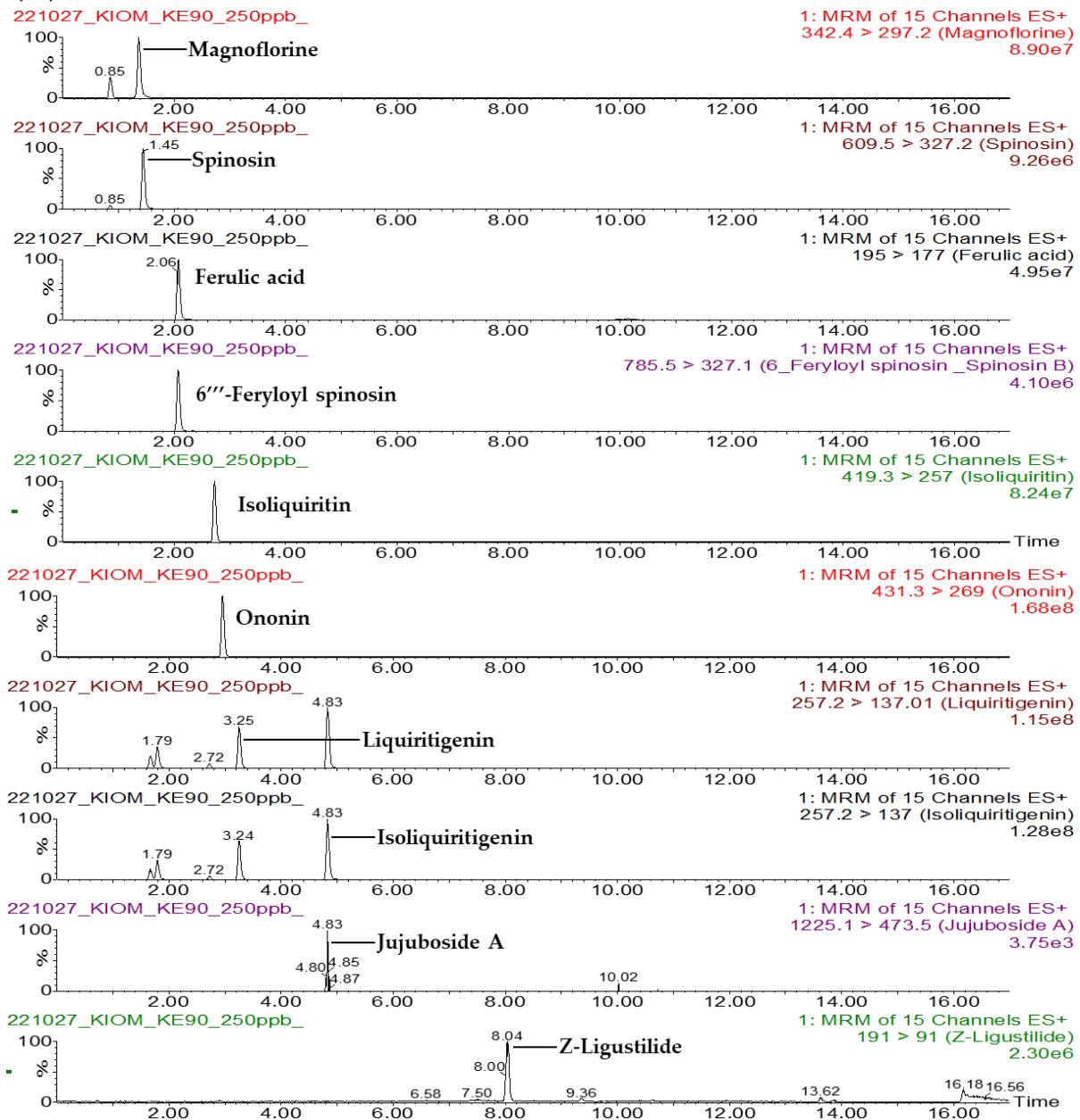
Figure S2. Precursor ion spectrum of jujuboside A.

**(SJIT-2)****(SJIT-3)****(SJIT-4)**

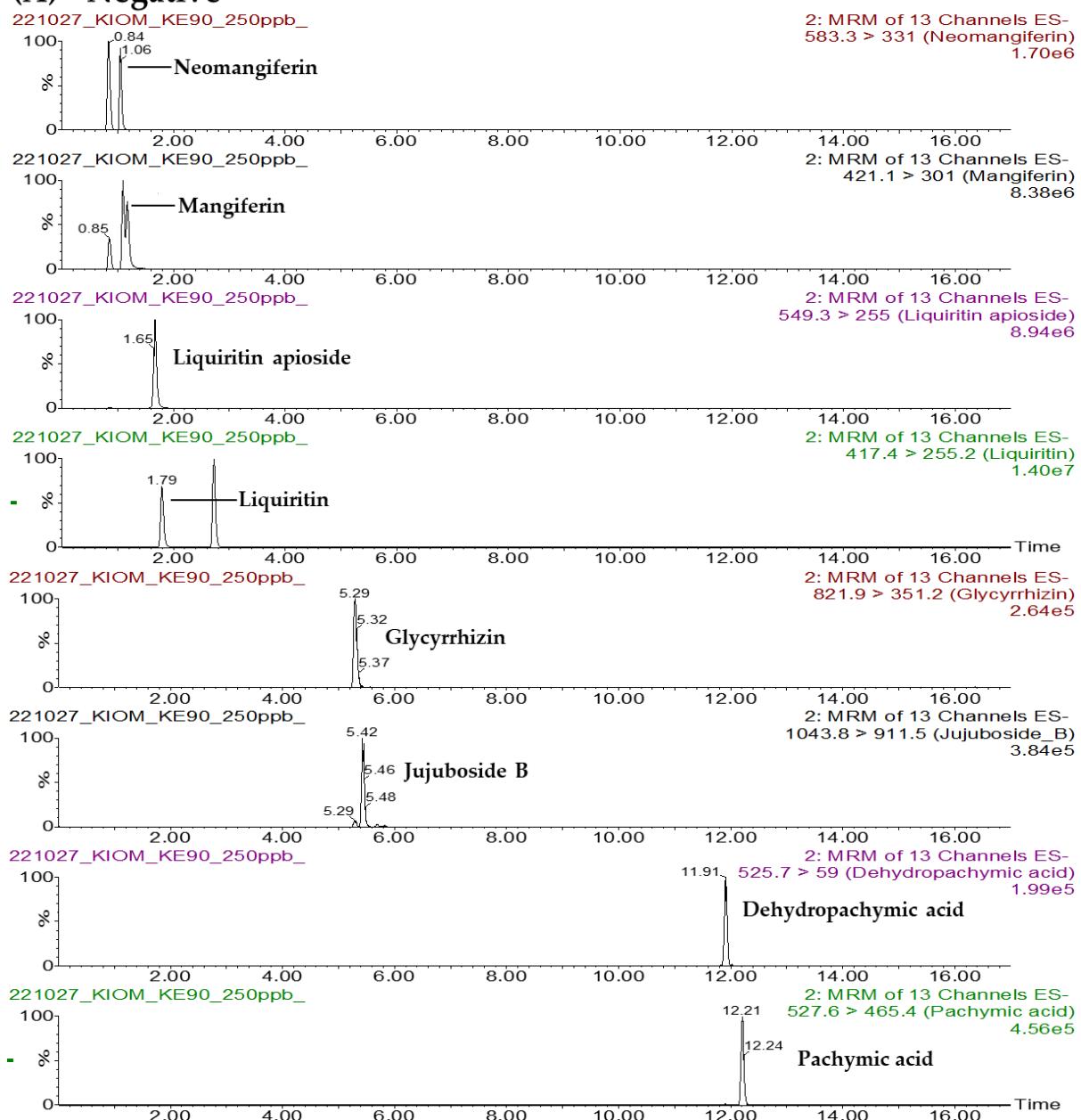
**Figure S3.** Total ion chromatograms of SJIT-2 to SJIT-4 samples by the UPLC-MS/MS MRM method. Neomangiferin (**1**), mangiferin (**2**), magnoflorine (**3**), spinosin (**4**), liquiritin apioside (**5**), liquiritin (**6**), ferulic acid (**7**), 6''-feruloyl spinosin (**8**), isoliquiritin (**9**), ononin (**10**), liquiritigenin (**11**), jujuboside A

(**12**), isoliquiritigenin (**13**), glycyrrhizin (**14**), jujuboside B (**15**), Z-ligustilide (**16**), dehydropachymic acid (**17**), and pachymic acid (**18**).

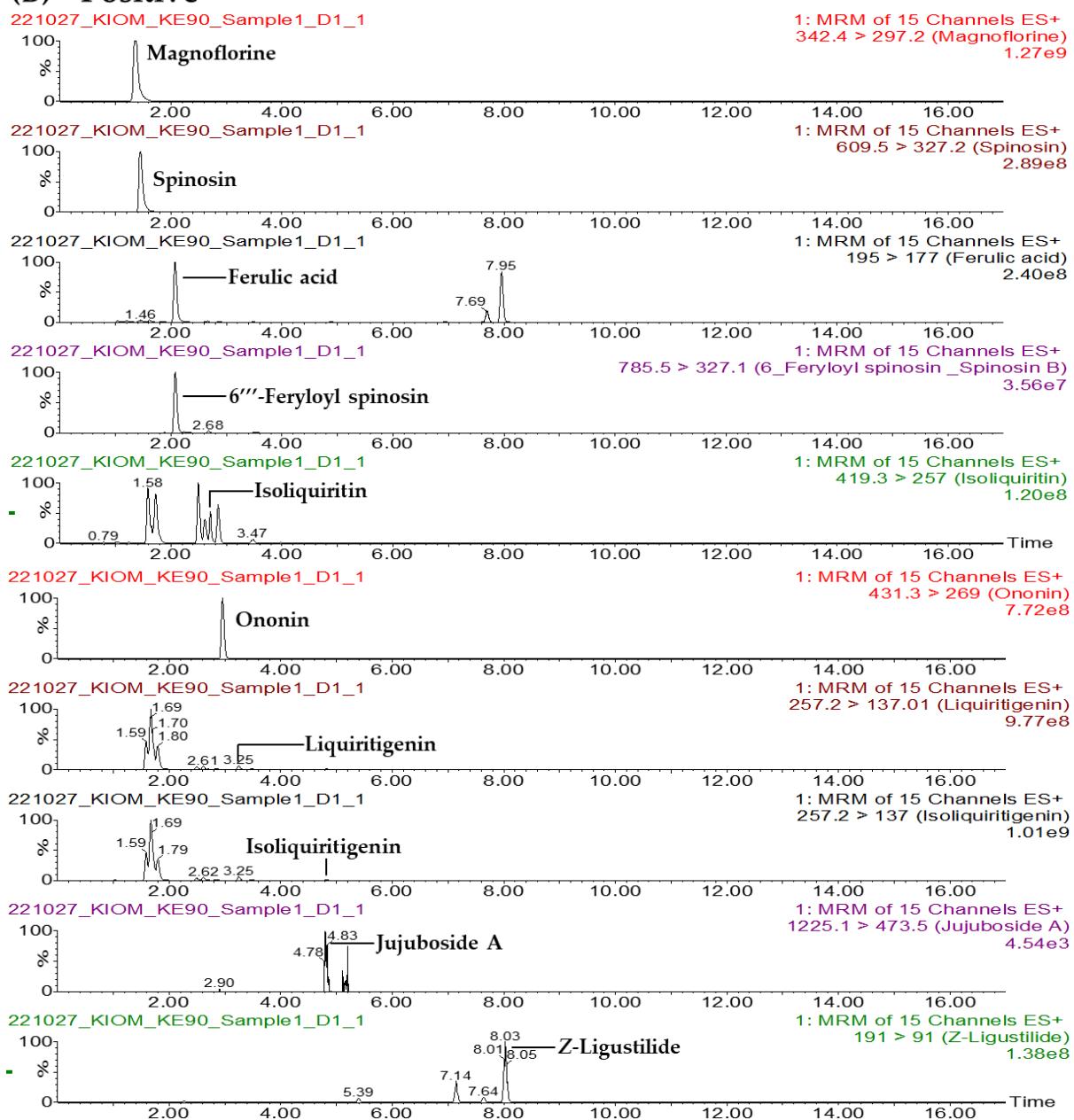
## (A) - Positive



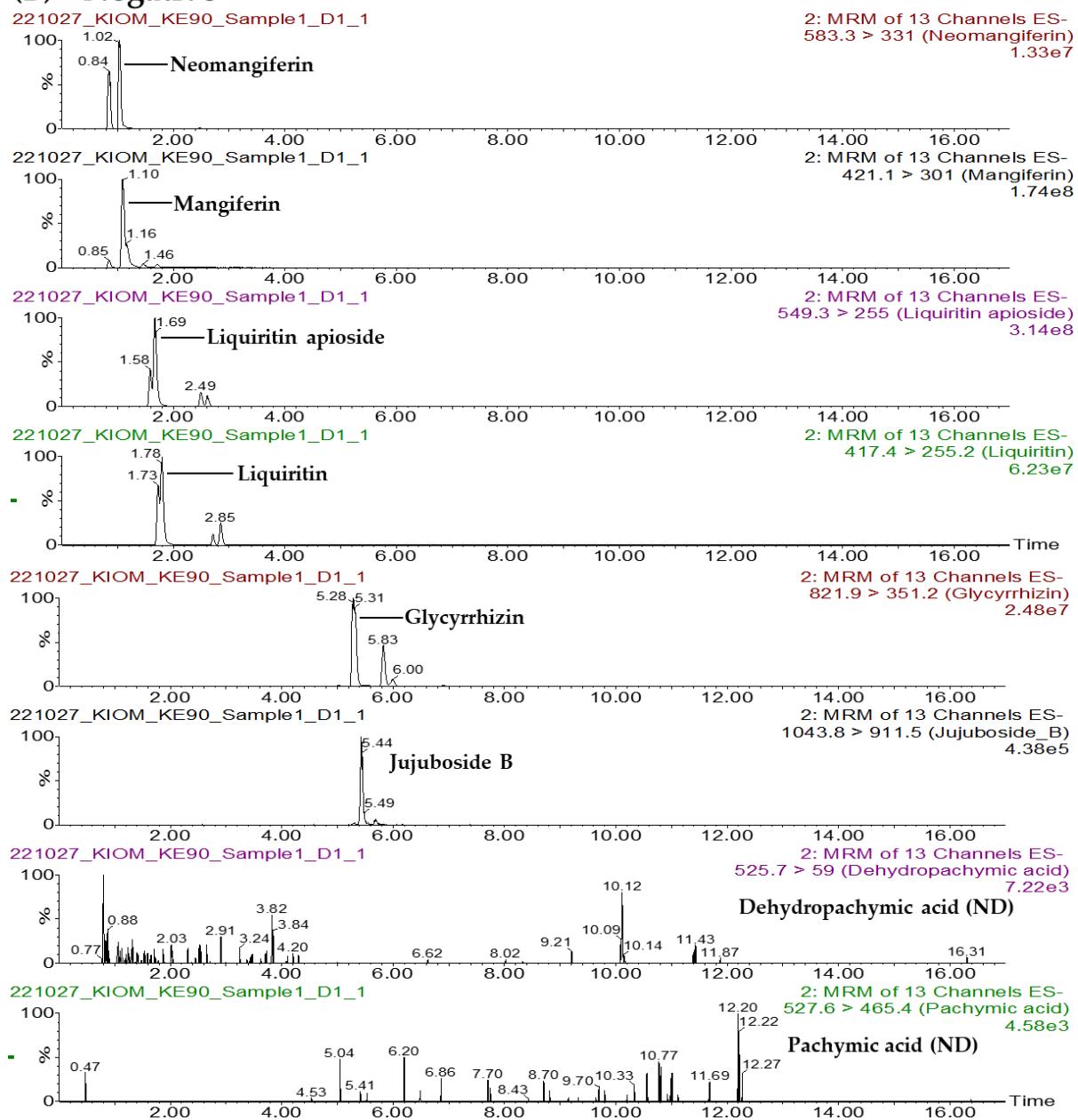
## (A) - Negative



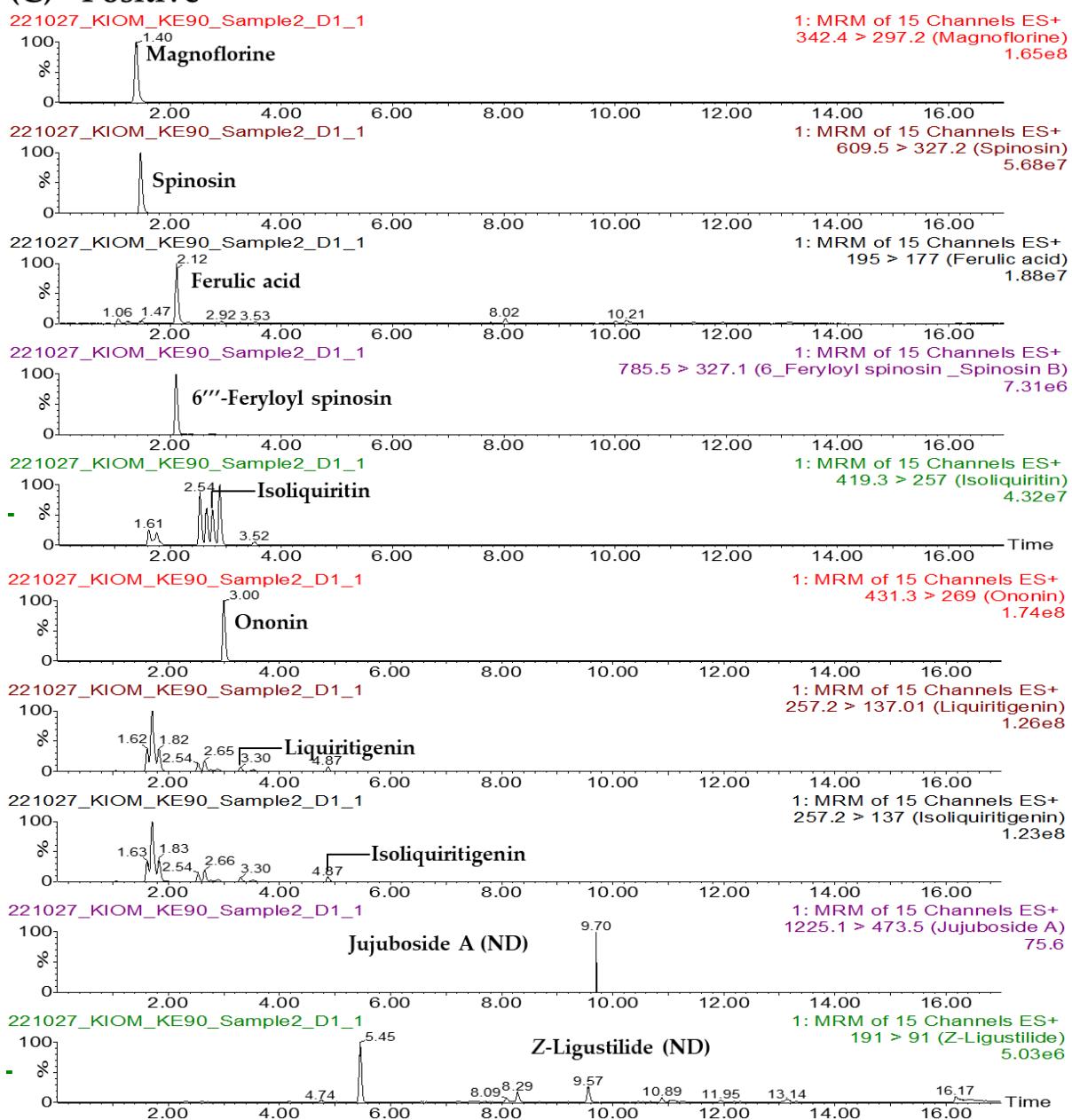
## (B) - Positive



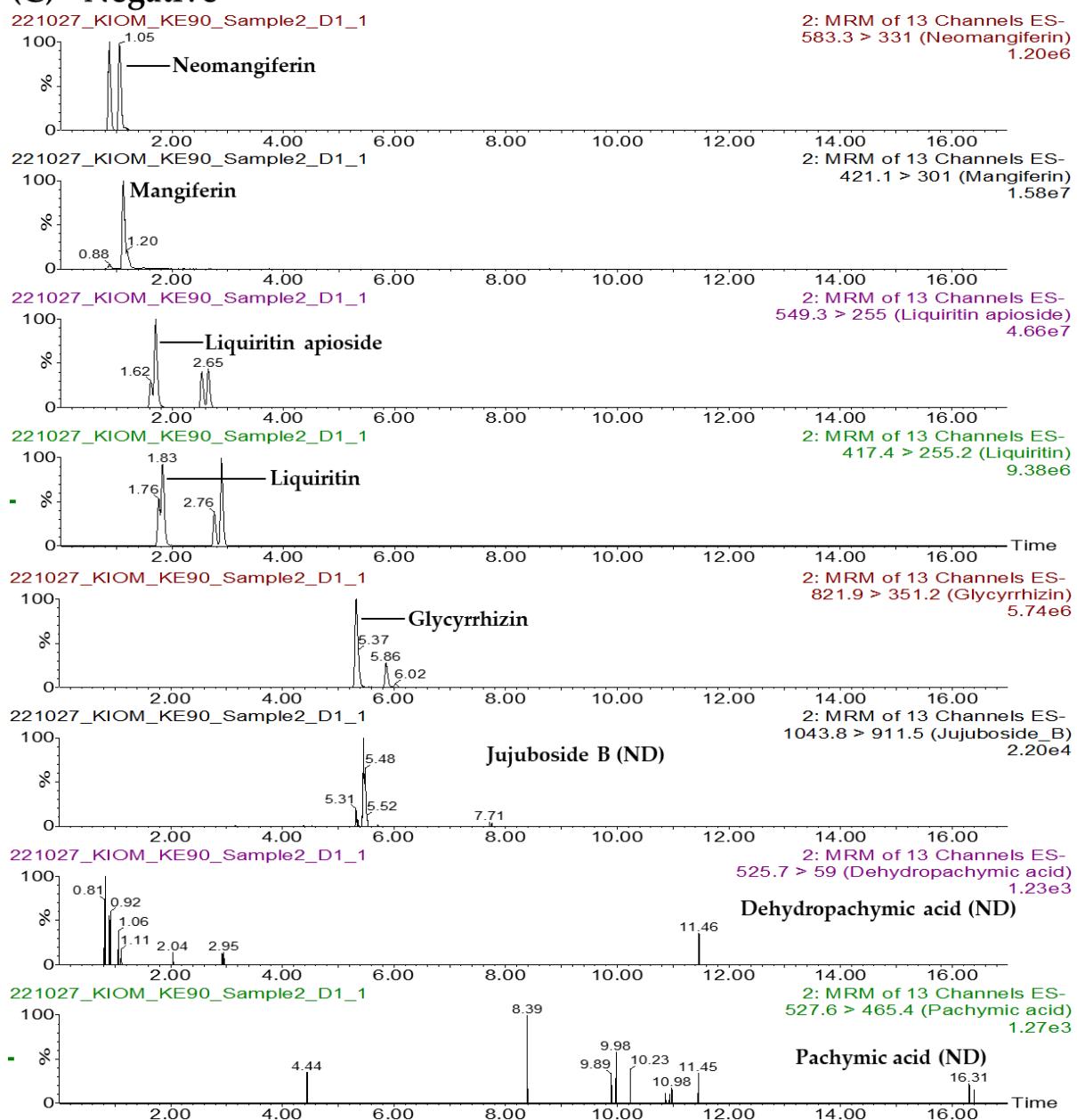
## (B) - Negative



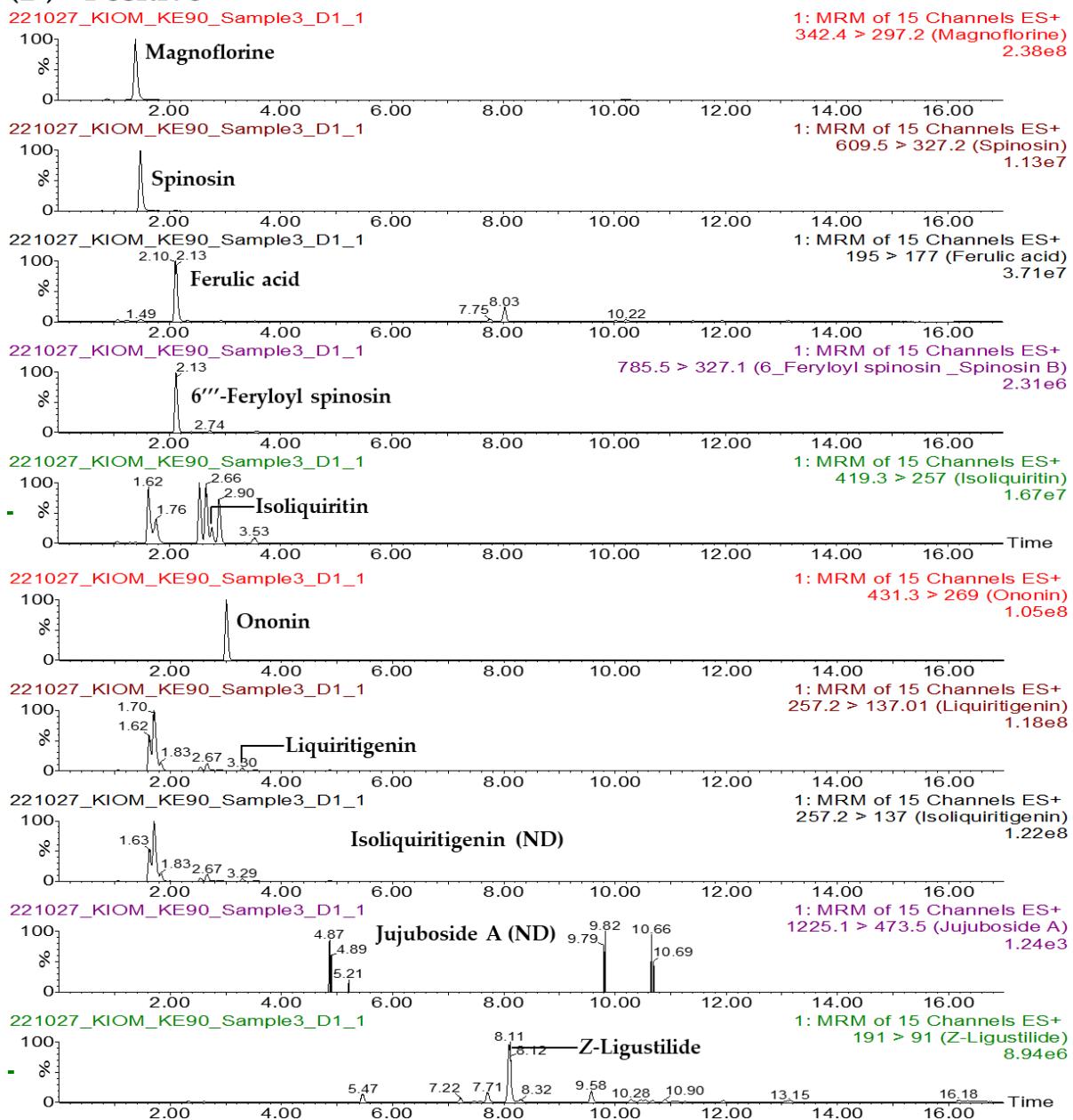
### (C) - Positive



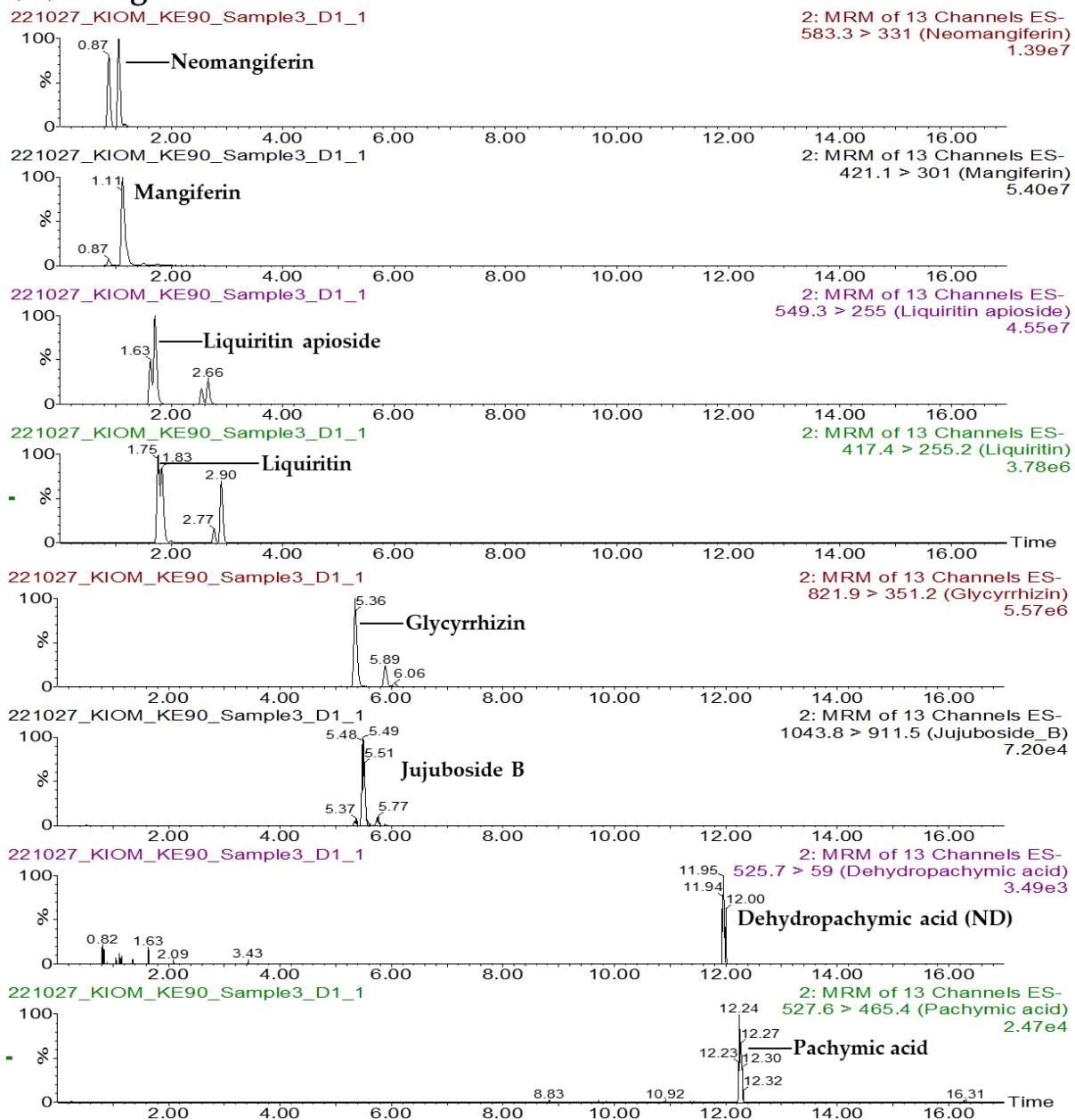
### (C) - Negative



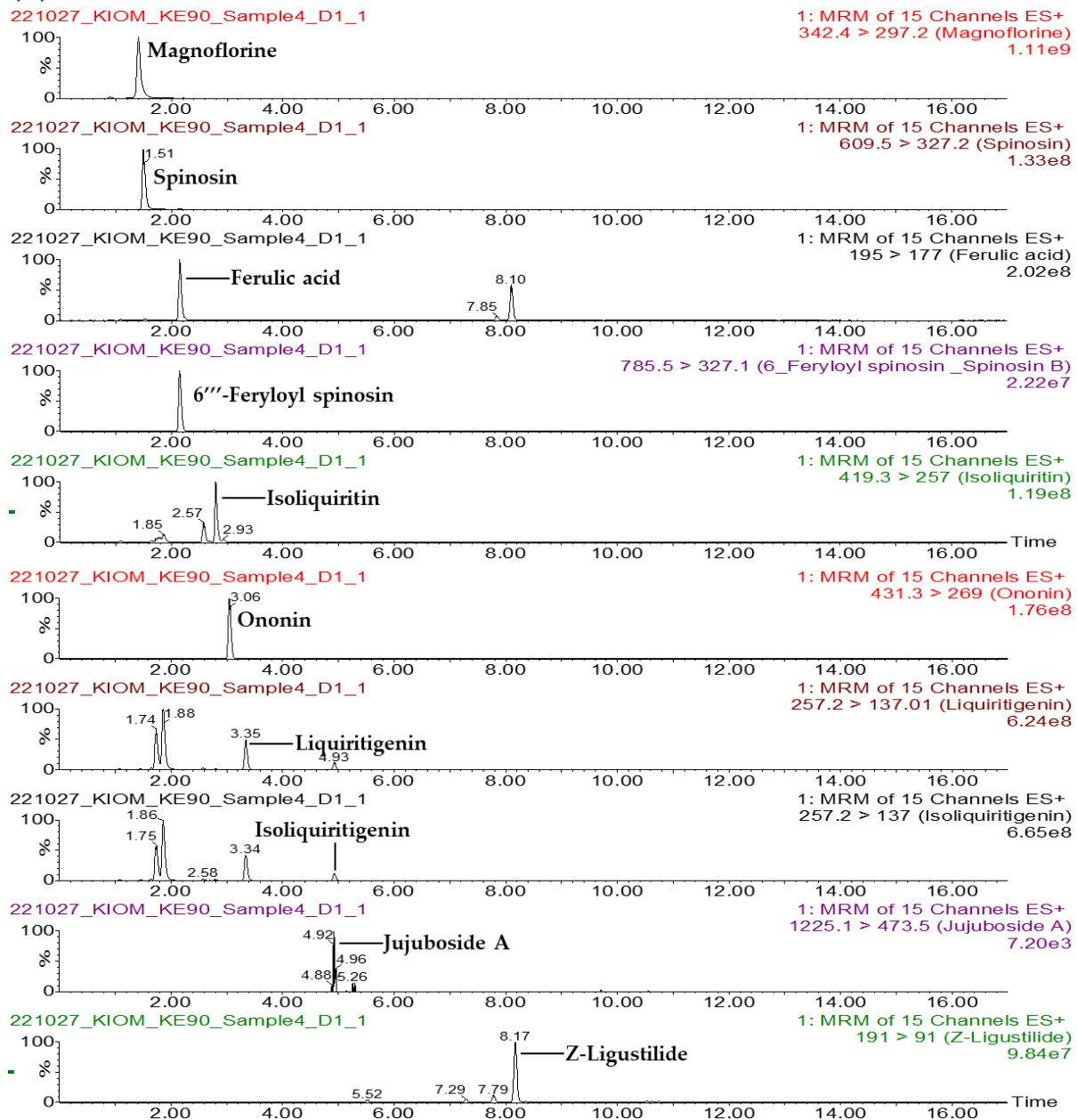
## (D) - Positive



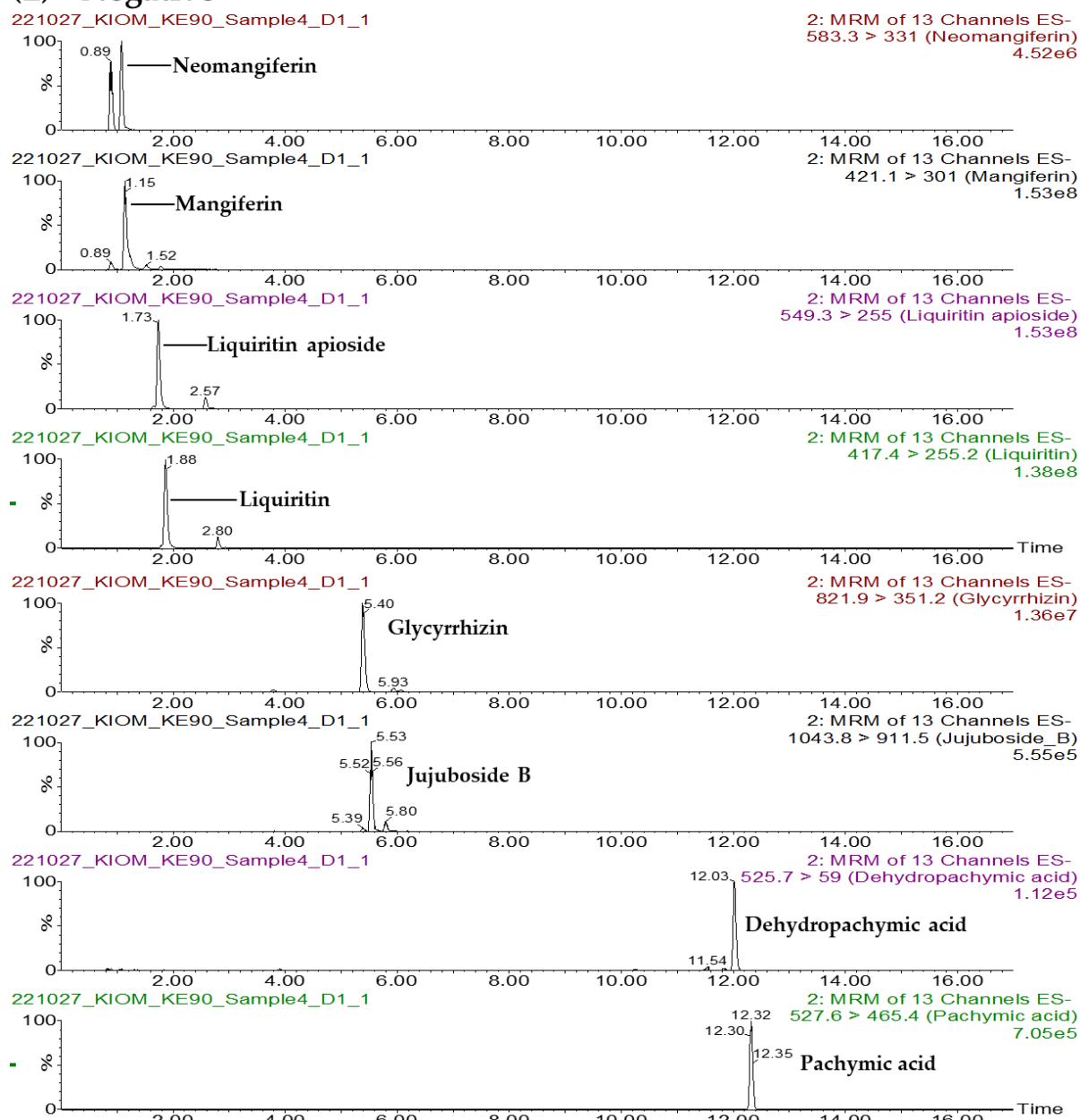
## (D) - Negative



## (E) - Positive



## (E) - Negative



**Figure S4.** Extracted ion chromatograms of standard compounds (A) and SJIT-1 to SJIT-4 samples (B–E) by UPLC–MS/MS method. Compounds 1–18 as in Figure S2.