

20150803-neg-04

1: TOF MS ES-
339.052
4.44e5

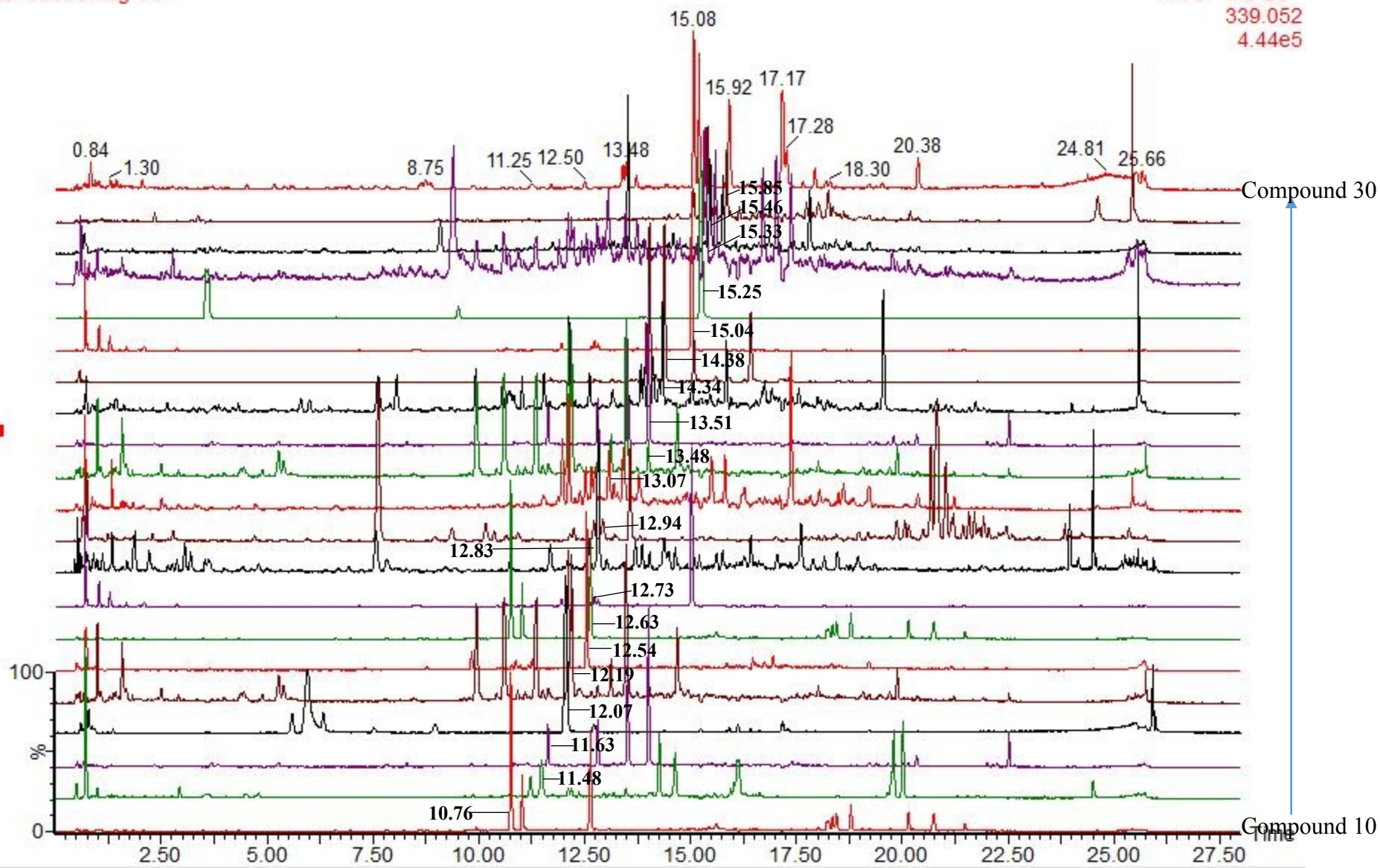
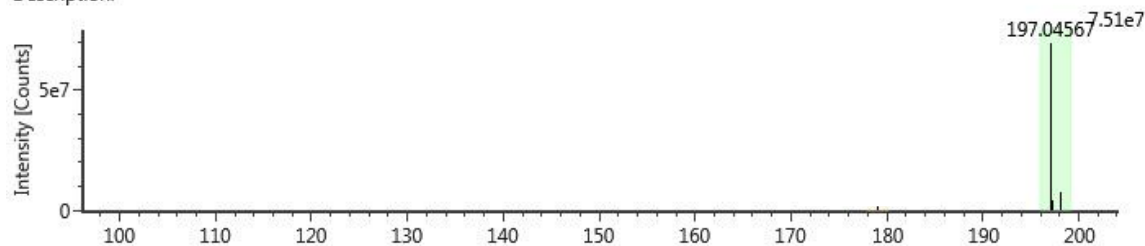


Fig. S2 The mass spectra and proposed fragmentation pathway of other compounds in DHI.

(4) Danshensu

Item name: 20150803-neg-04
Description:

Channel name: Low energy : Time 3.5779 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
Description:

Channel name: High energy : Time 3.5779 +/- 0.0269 minutes : 3D mass peak list

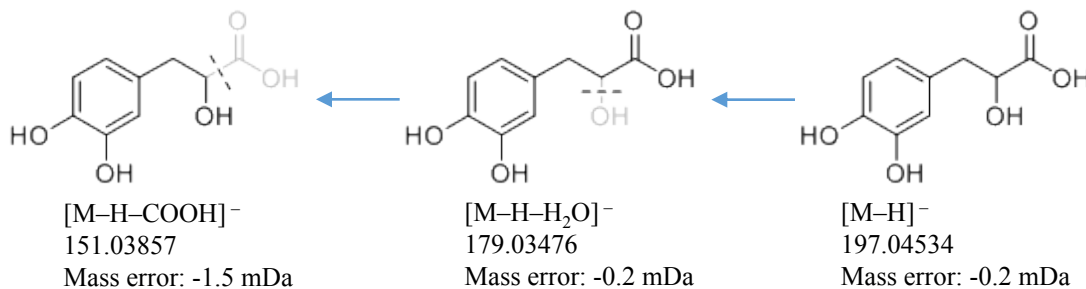
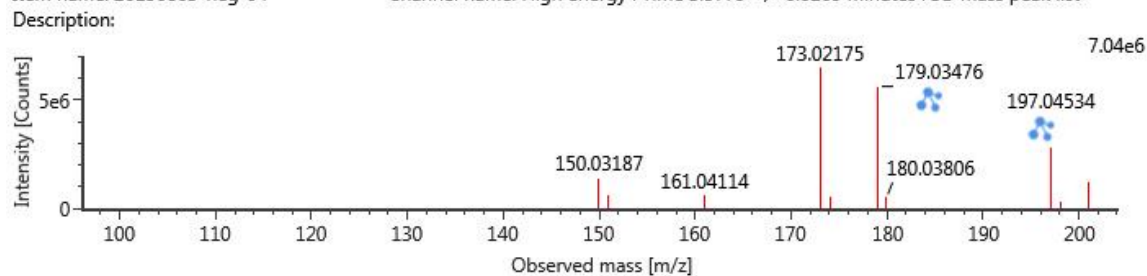
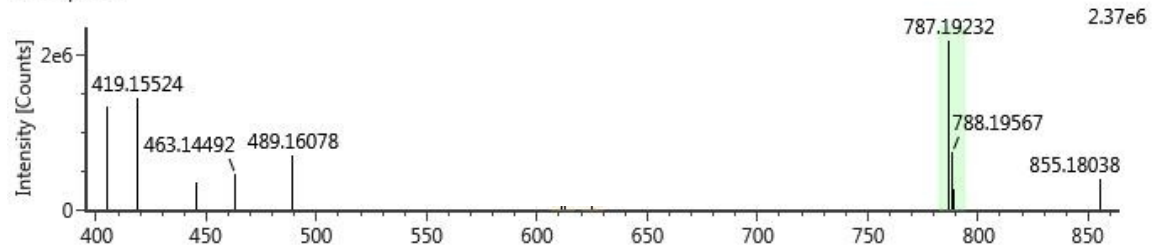


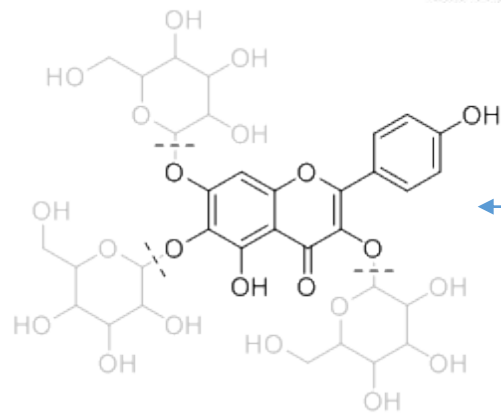
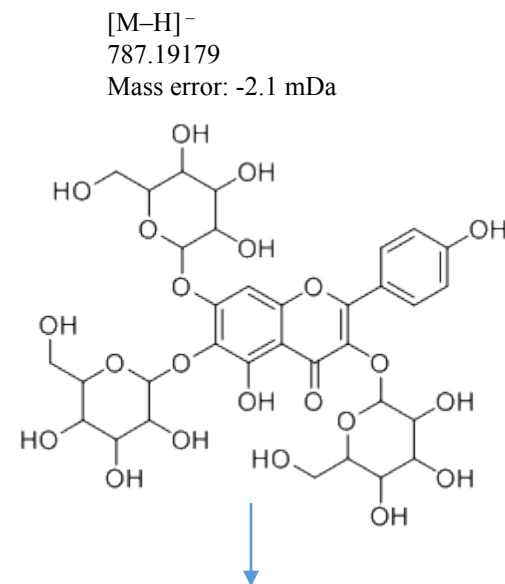
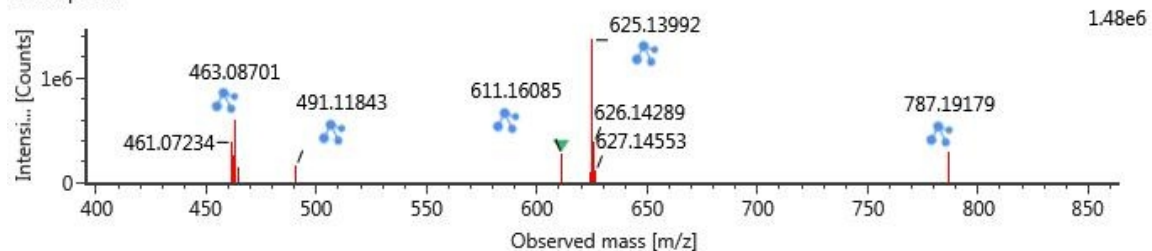
Fig. S2 (continued)

(9) 6-hydroxykaempferol-3,6,7-tri-O-glucoside

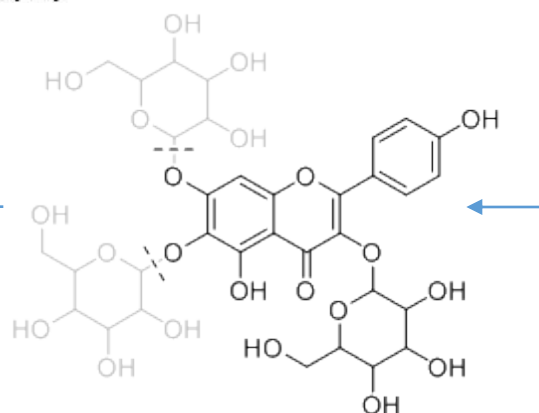
Item name: 20150803-neg-04 Channel name: Low energy : Time 9.9465 +/- 0.0269 minutes : 3D mass peak list
Description:



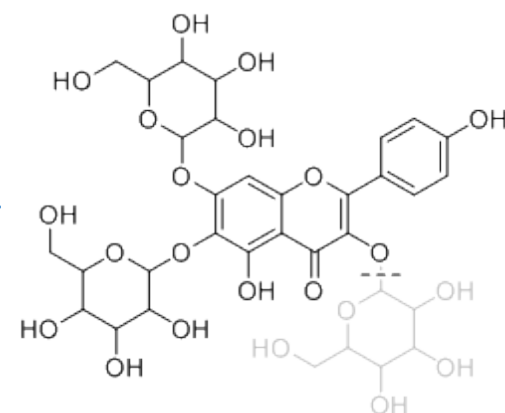
Item name: 20150803-neg-04 Channel name: High energy : Time 9.9465 +/- 0.0269 minutes : 3D mass peak list
Description:



$[M-H-3glu]^-$
301.03426
Mass error: -1.1 mDa



$[M-H-2glu]^-$
463.08701
Mass error: -1.2 mDa



$[M-H-glu]^-$
625.13992
Mass error: -1.1 mDa

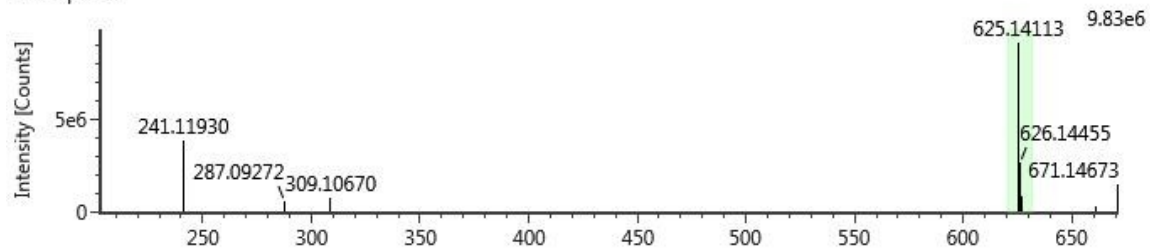
Fig. S2 (continued)

(10) 6-hydroxykaempferol-3,6-di-O-glucoside

Item name: 20150803-neg-04

Channel name: Low energy : Time 10.7621 +/- 0.0269 minutes : 3D mass peak list

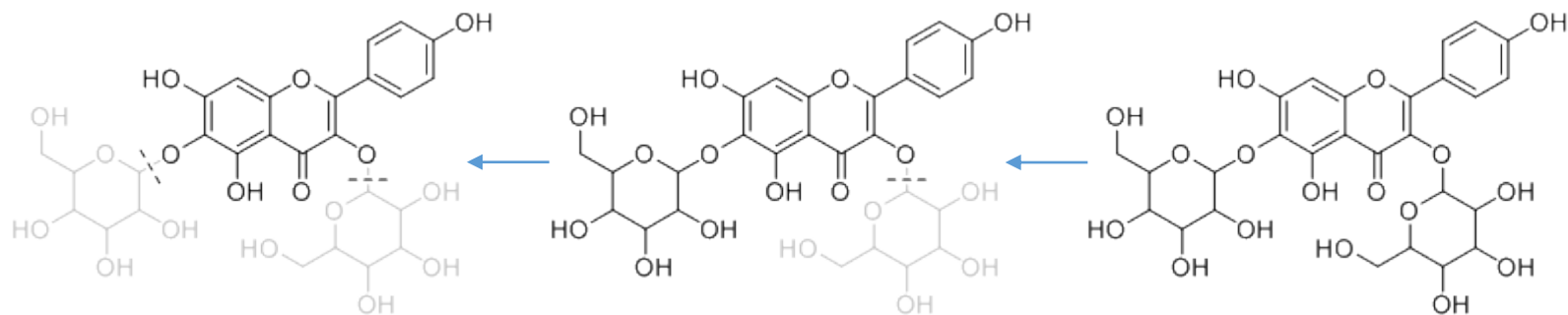
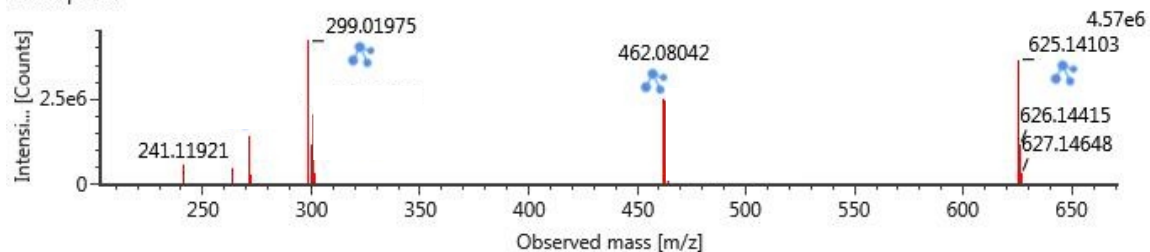
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 10.7621 +/- 0.0269 minutes : 3D mass peak list

Description:



[M-H-2glu]⁻
299.01975
Mass error: 0 mDa

[M-H-glu]⁻
462.08042
Mass error: 0 mDa

[M-H]⁻
625.14103
Mass error: 0 mDa

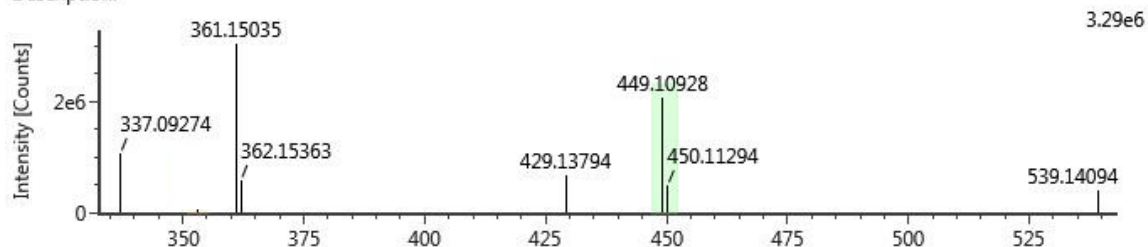
Fig. S2 (continued)

(11) neocarthamin

Item name: 20150803-neg-04

Channel name: Low energy : Time 11.4818 +/- 0.0269 minutes : 3D mass peak list

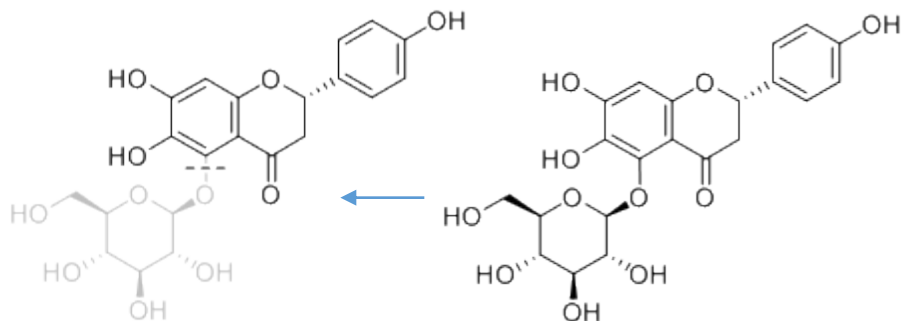
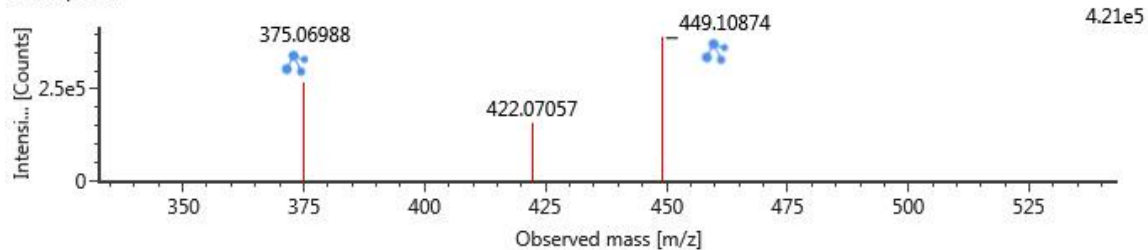
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 11.4818 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H-glu-H_2O]^-$

269.04535

Mass error: -0.2 mDa

$[M-H]^-$

449.10874

Mass error: -0.2 mDa

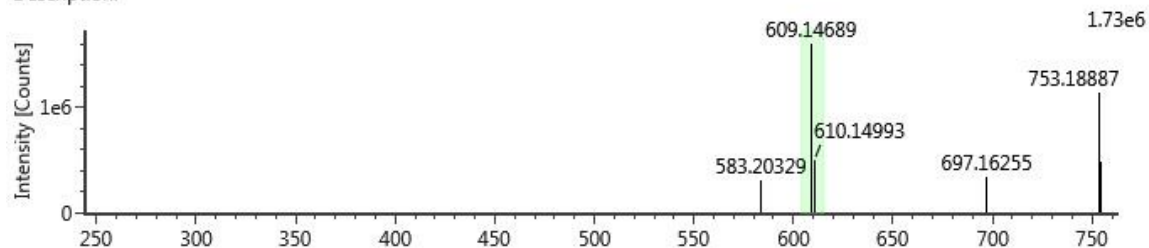
Fig. S2 (continued)

(12) rutin

Item name: 20150803-neg-04

Channel name: Low energy : Time 11.6364 +/- 0.0269 minutes : 3D mass peak list

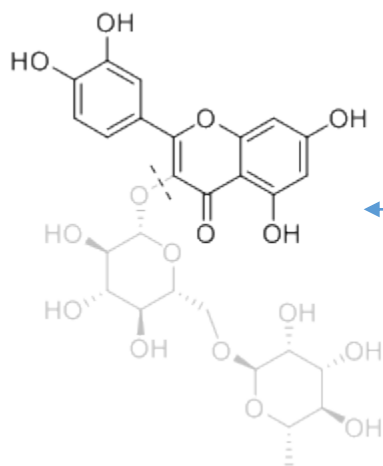
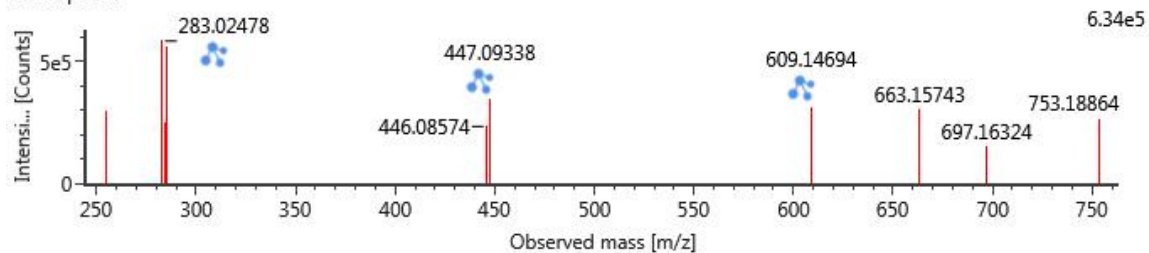
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 11.6364 +/- 0.0269 minutes : 3D mass peak list

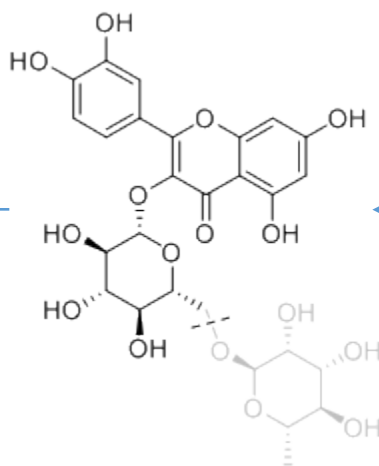
Description:



$[M-H-2glu]^-$

283.02478

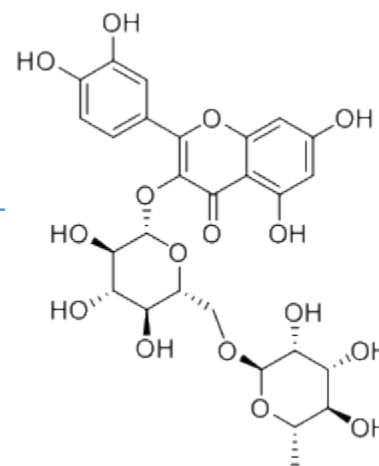
Mass error: 0 mDa



$[M-H-gluc]^-$

447.09338

Mass error: 0.1 mDa



$[M-H]^-$

609.14694

Mass error: 0.8 mDa

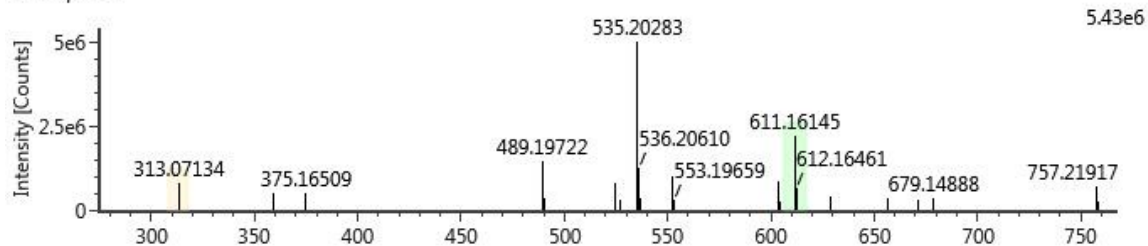
Fig. S2 (continued)

(14) hydroxysafflor yellow A

Item name: 20150803-neg-04

Channel name: Low energy : Time 12.1946 +/- 0.0269 minutes : 3D mass peak list

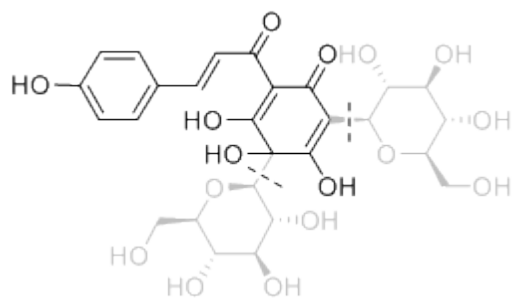
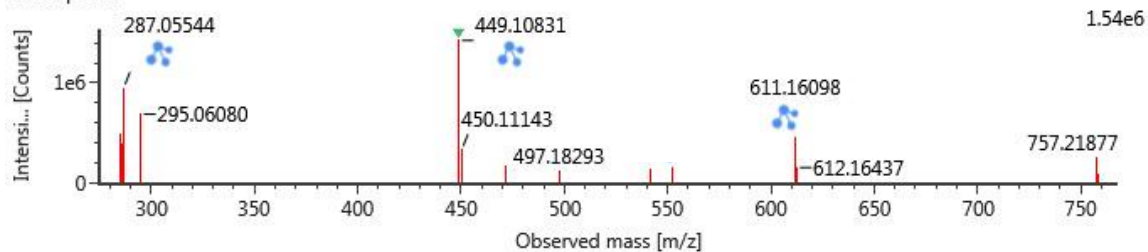
Description:



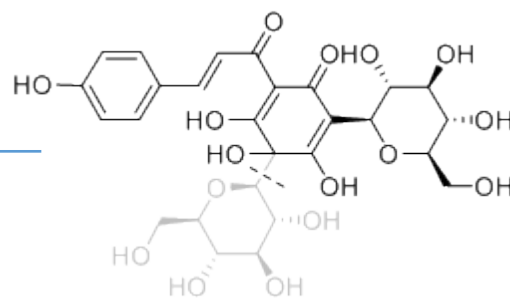
Item name: 20150803-neg-04

Channel name: High energy : Time 12.1946 +/- 0.0269 minutes : 3D mass peak list

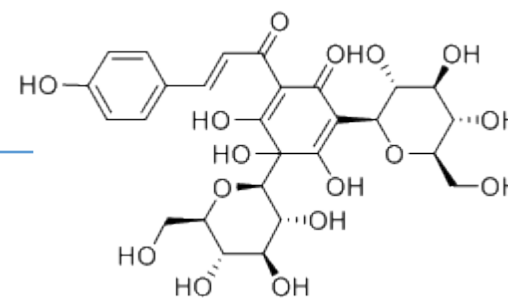
Description:



[M-H-2glu]⁻
287.05544
Mass error: -0.7 mDa



[M-H-glu]⁻
449.10831
Mass error: -0.6 mDa



[M-H]⁻
611.16098
Mass error: -0.8 mDa

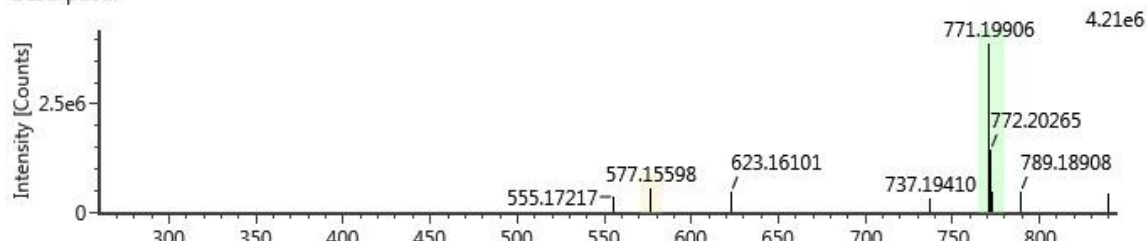
Fig. S2 (continued)

(15) 6-hydroxykaempferol-3-O-rutinoside-6-O-glucoside

Item name: 20150803-neg-04

Channel name: Low energy : Time 12.5461 +/- 0.0269 minutes : 3D mass peak list

Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 12.5461 +/- 0.0269 minutes : 3D mass peak list

Description:

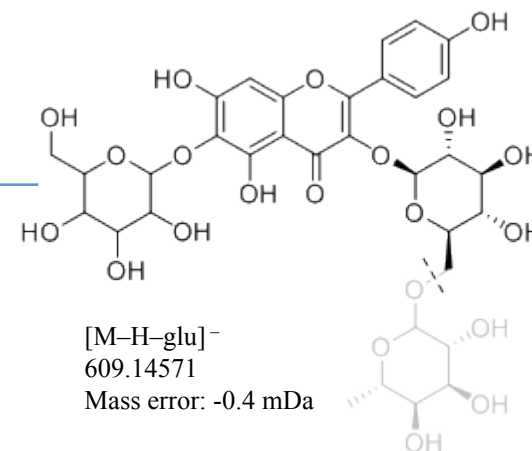
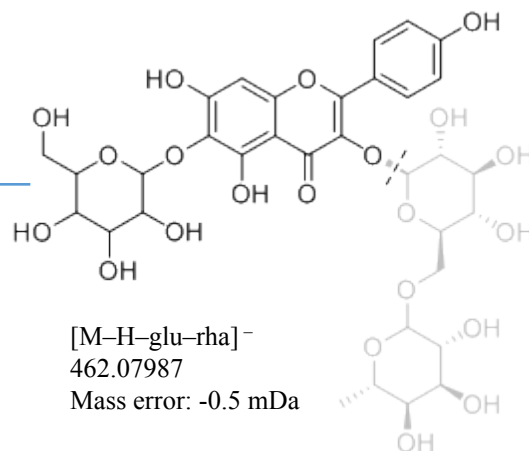
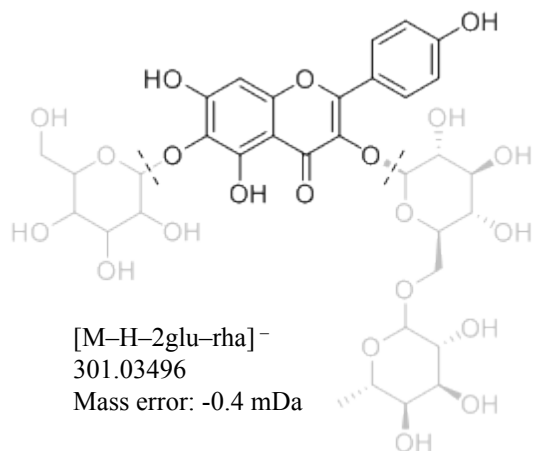
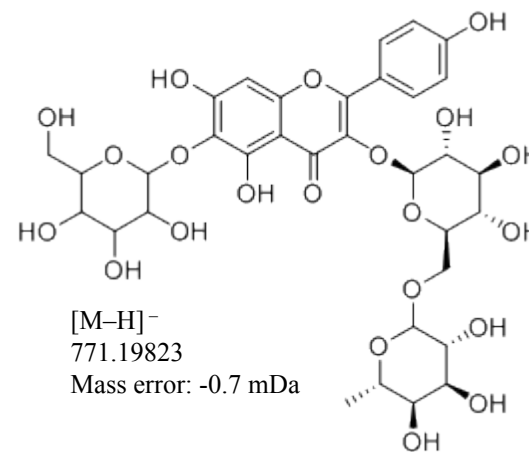
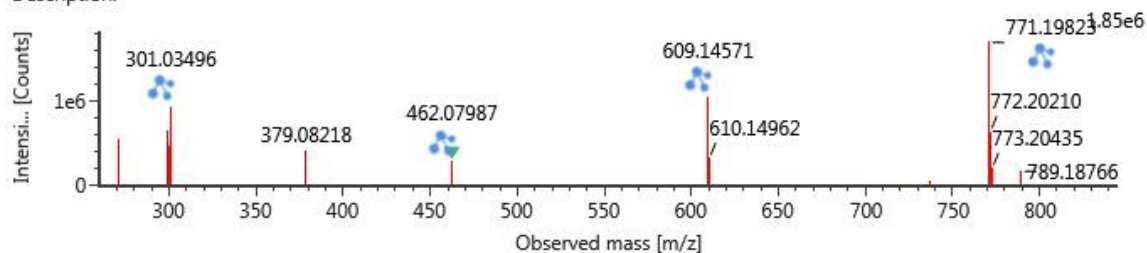


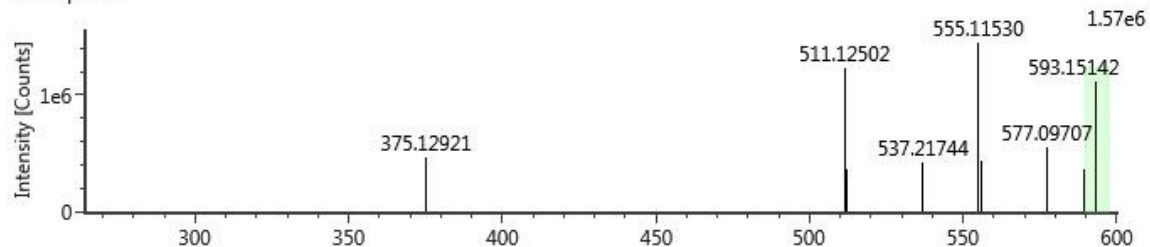
Fig. S2 (continued)

(17) safflor yellow A

Item name: 20150803-neg-04

Channel name: Low energy : Time 12.7382 +/- 0.0269 minutes : 3D mass peak list

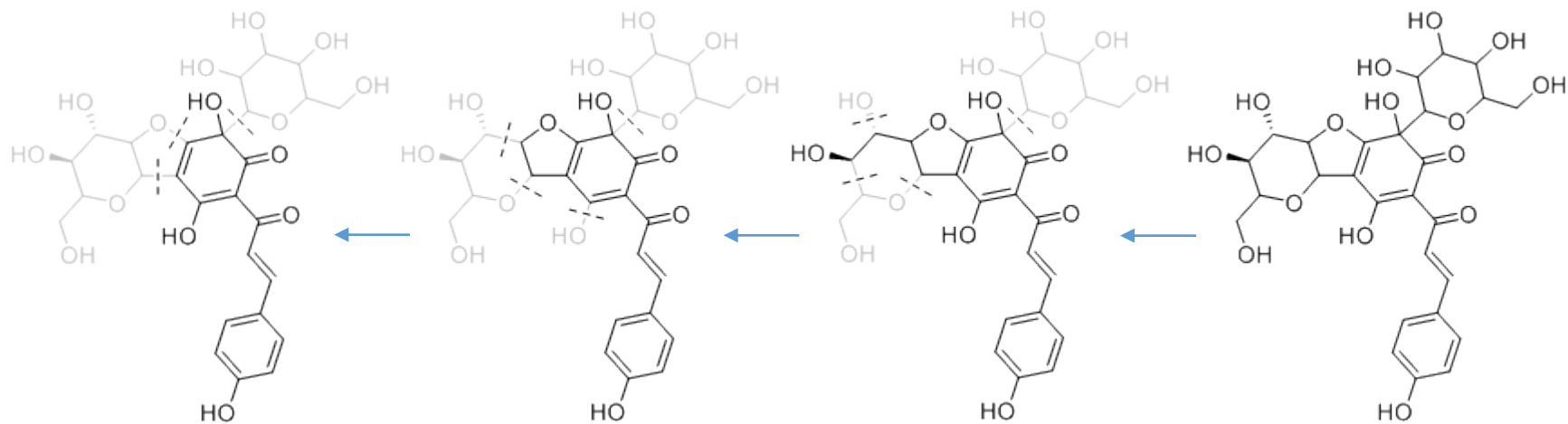
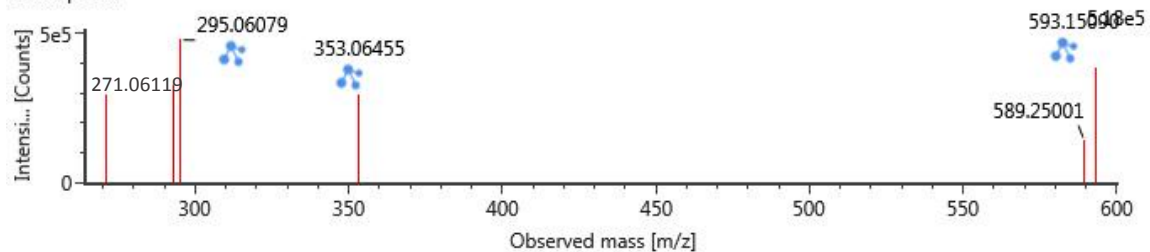
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 12.7382 +/- 0.0269 minutes : 3D mass peak list

Description:



[M-H-glu-C₆H₈O₅]⁻
271.06119
Mass error: 0 mDa

[M-H-glu-H₂O-C₄H₇O₄]⁻
295.06079
Mass error: -0.4 mDa

[M-H-glu-H₂O-C₂H₄O₂]⁻
353.06455
Mass error: -2.1 mDa

[M-H]⁻
593.15090
Mass error: -0.3 mDa

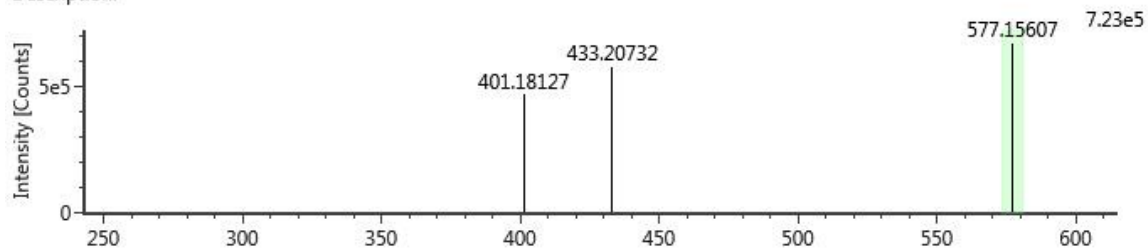
Fig. S2 (continued)

(20) 5,7-dihydroxy-4'-methoxyflavone-7-O-β-D-apiofuranosyl-(1-6)-O-β-D-glucoside

Item name: 20150803-neg-04

Channel name: Low energy : Time 13.0744 +/- 0.0269 minutes : 3D mass peak list

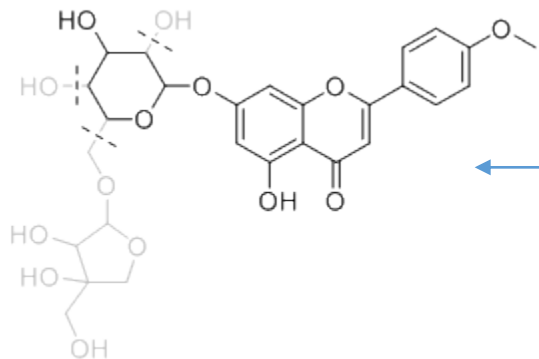
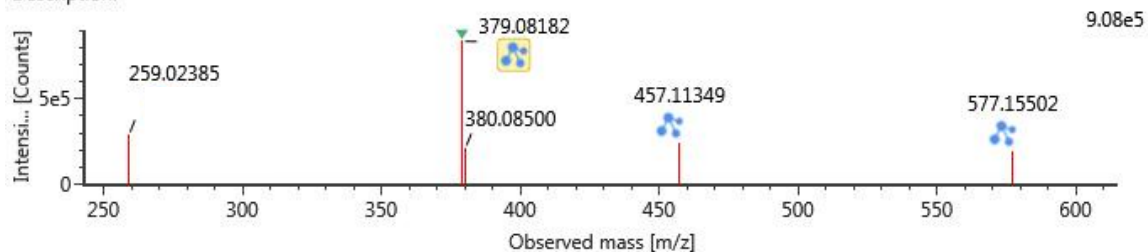
Description:



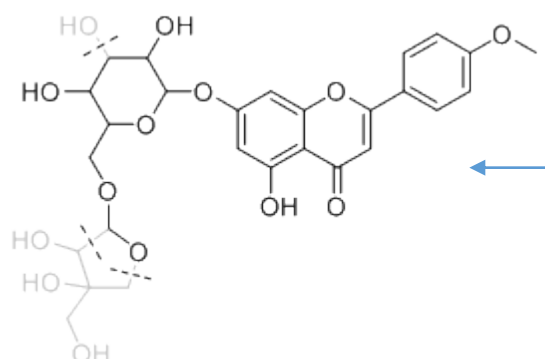
Item name: 20150803-neg-04

Channel name: High energy : Time 13.0744 +/- 0.0269 minutes : 3D mass peak list

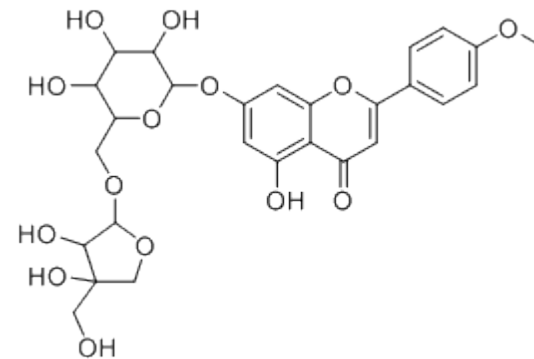
Description:



$[M-H-C_6H_{11}O_5-2H_2O]^-$
379.08182
Mass error: -0.5 mDa



$[M-H-C_4H_8O_4]^-$
457.11349
Mass error: -0.5 mDa



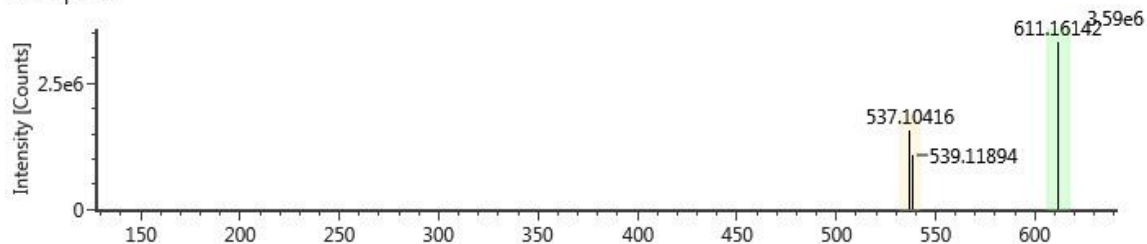
$[M-H]^-$
577.15502
Mass error: -1.3 mDa

Fig. S2 (continued)

(21) 5,6,7,4'-tetrahydroxyflavanone 6,7-di-O-β-D-glucoside

Item name: 20150803-neg-04
Description:

Channel name: Low energy : Time 13.4817 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
Description:

Channel name: High energy : Time 13.4817 +/- 0.0269 minutes : 3D mass peak list

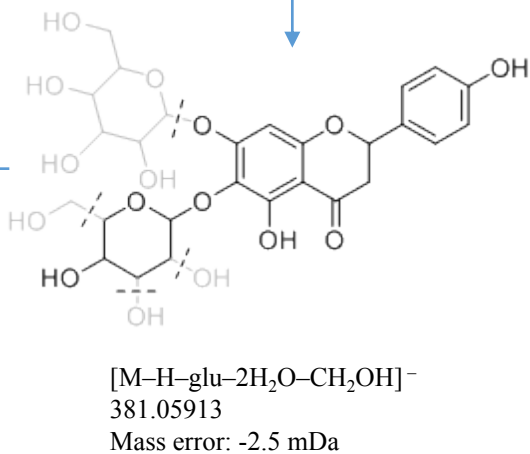
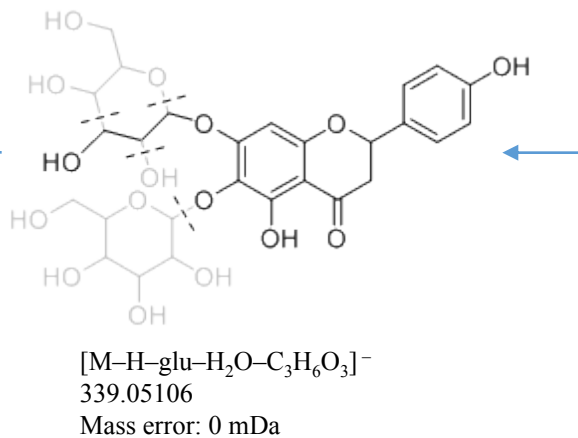
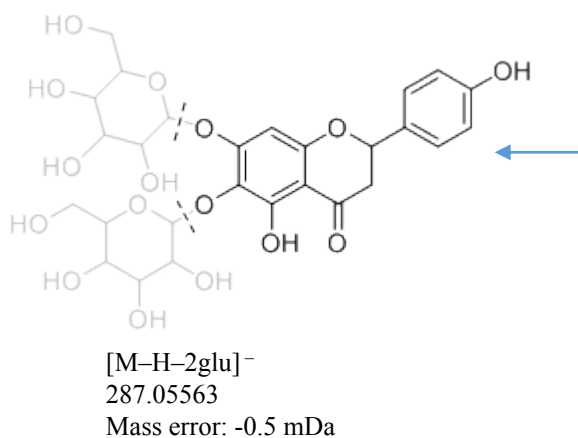
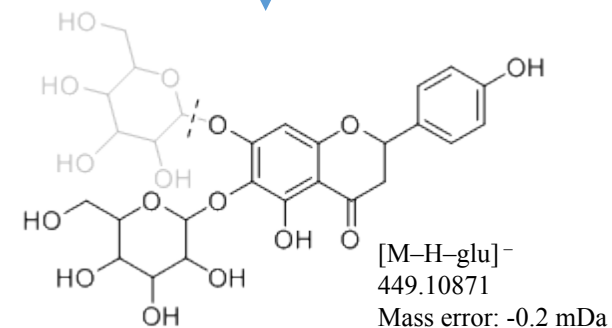
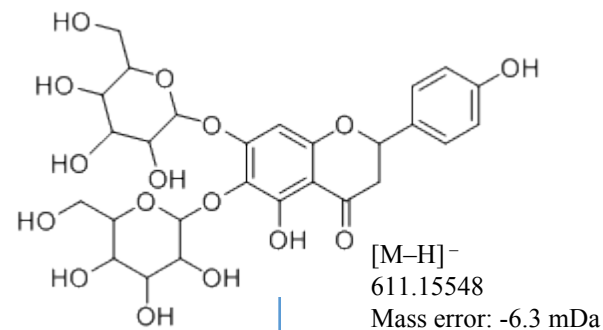
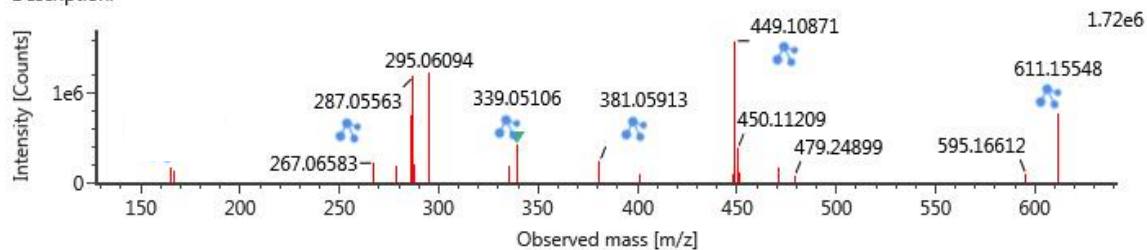


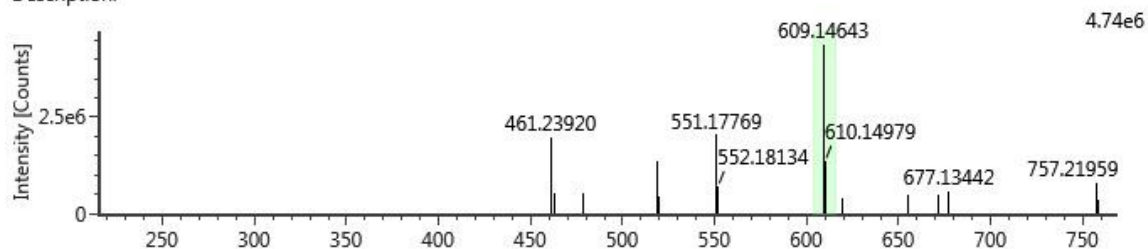
Fig. S2 (continued)

(22) kaempferol-3-O-sophorose

Item name: 20150803-neg-04

Channel name: Low energy : Time 13.5181 +/- 0.0269 minutes : 3D mass peak list

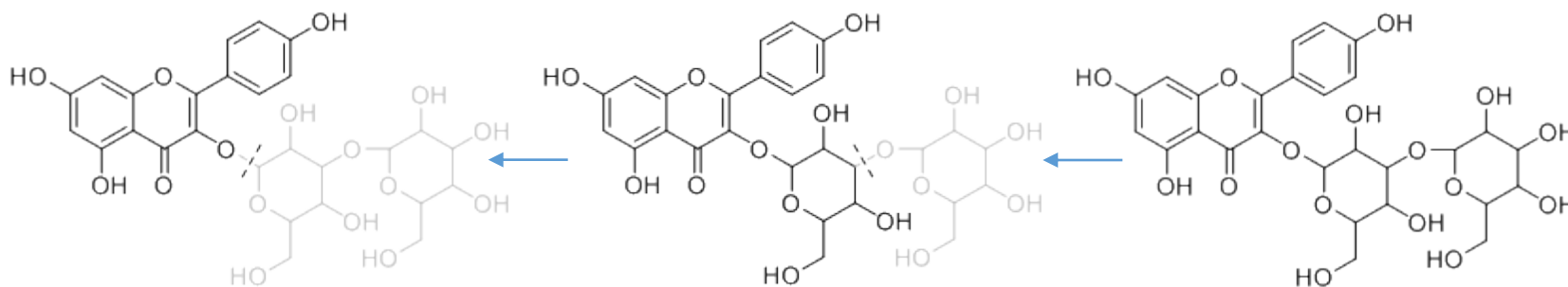
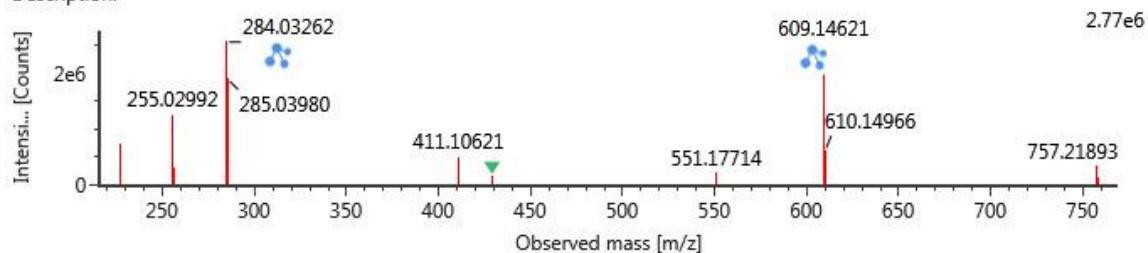
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 13.5181 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H-soph]^-$
284.03262
Mass error: 0 mDa

$[M-H-glu-H_2O]^-$
429.08340
Mass error: 0.7 mDa

$[M-H]^-$
609.14621
Mass error: 0.1 mDa

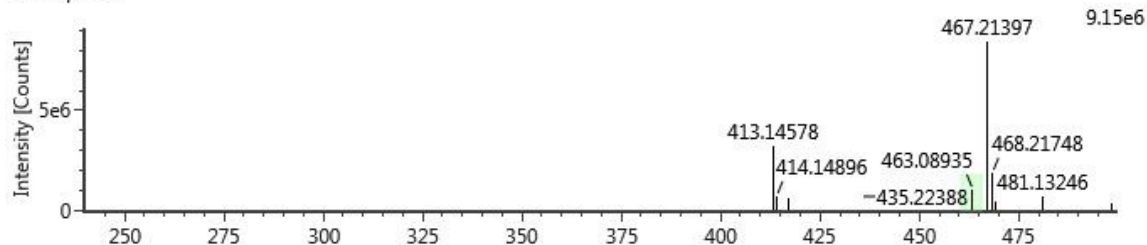
Fig. S2 (continued)

(23) 6-hydroxykaempferol-3-O-glucoside

Item name: 20150803-neg-04

Channel name: Low energy : Time 14.3412 +/- 0.0269 minutes : 3D mass peak list

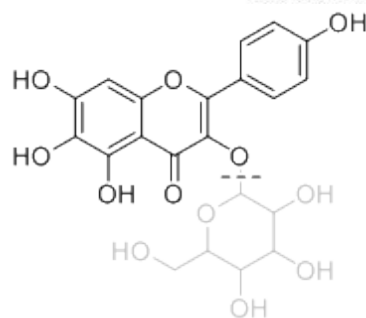
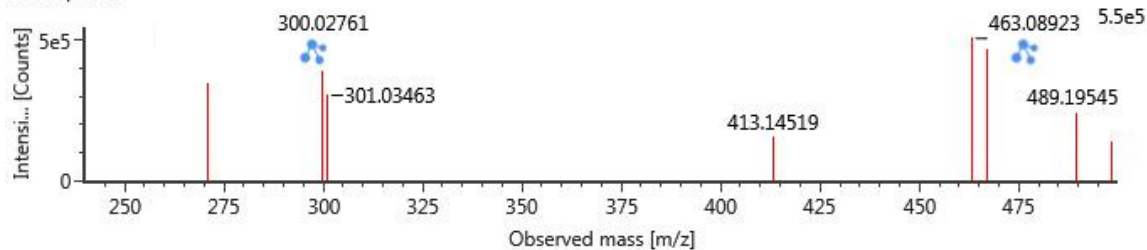
Description:



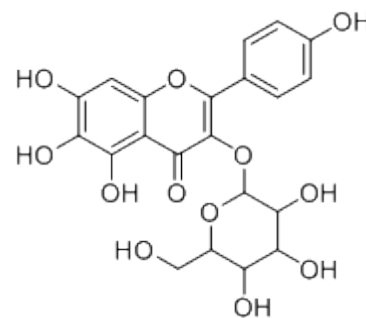
Item name: 20150803-neg-04

Channel name: High energy : Time 14.3412 +/- 0.0269 minutes : 3D mass peak list

Description:



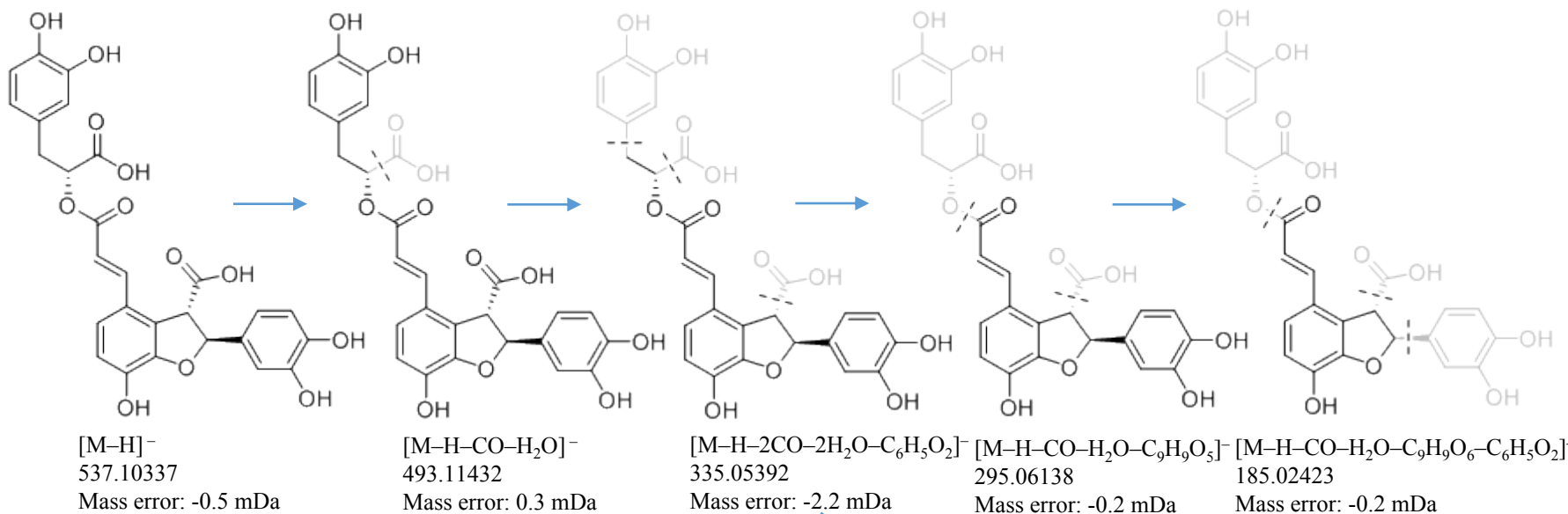
[M-H-glu]⁻
300.02761
Mass error: 0.1 mDa



[M-H]⁻
463.08923
Mass error: 1 mDa

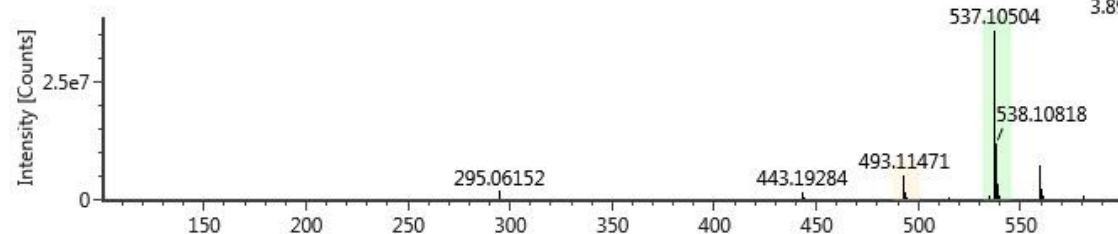
Fig. S2 (continued)

(24) lithospermic acid



Item name: 20150803-neg-04
 Description:

Channel name: Low energy : Time 14.3848 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
 Description:

Channel name: High energy : Time 14.3848 +/- 0.0269 minutes : 3D mass peak list

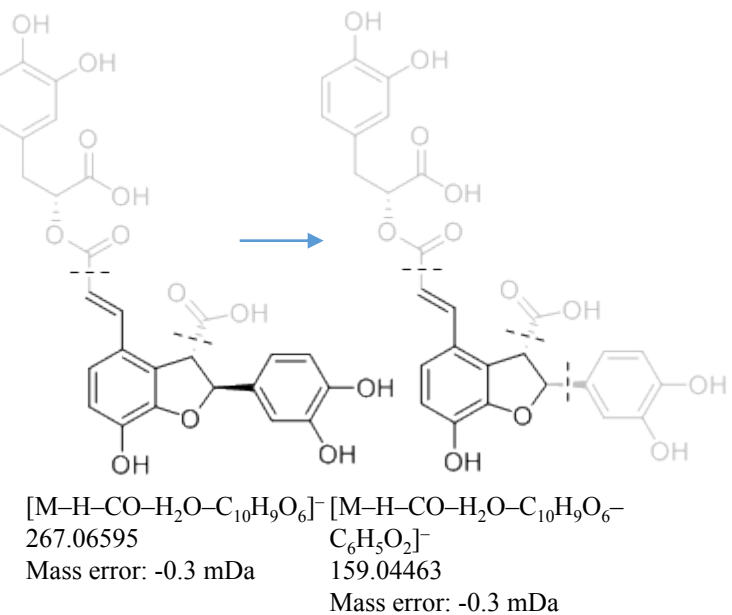
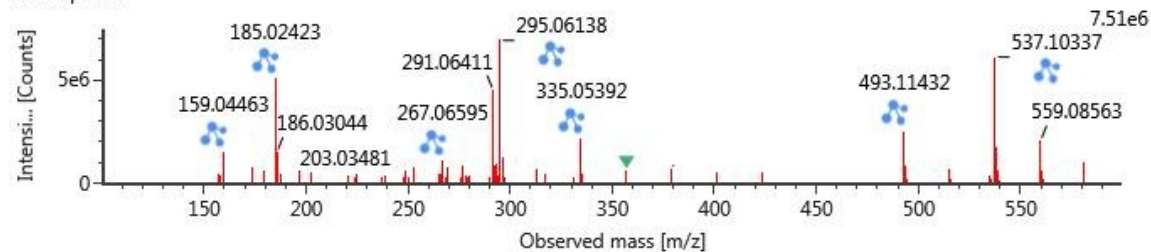
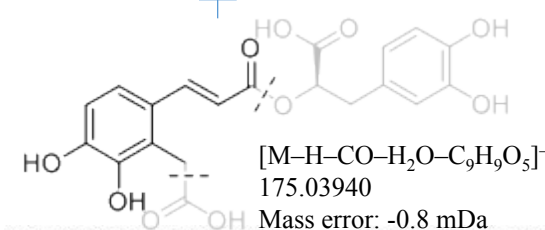
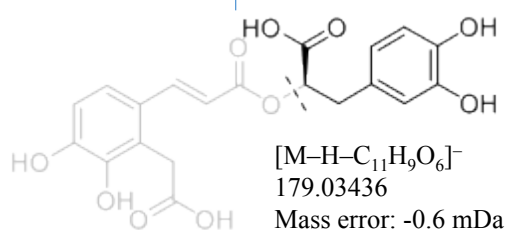
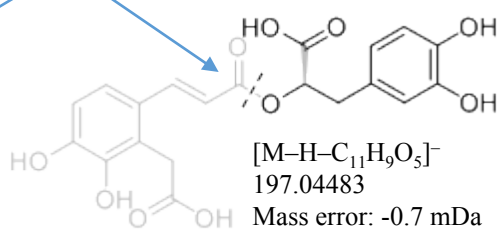
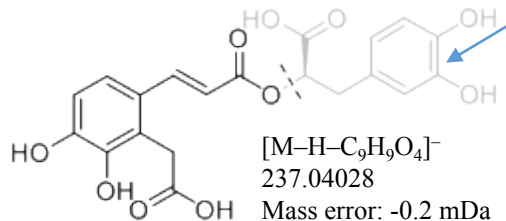
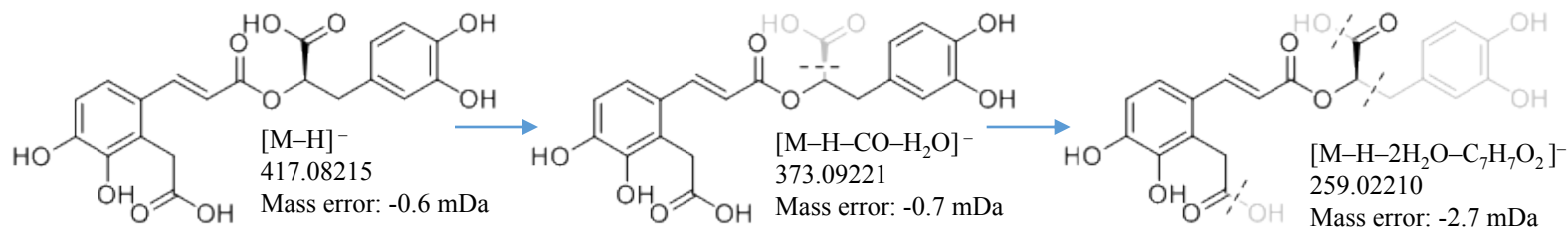


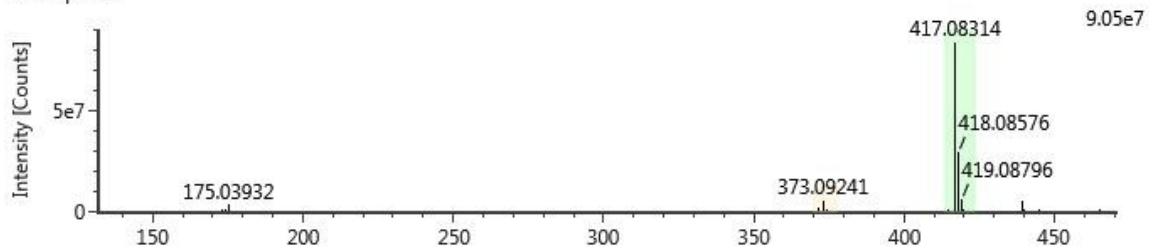
Fig. S2 (continued)

(26) salvianolic acid D



Item name: 20150803-neg-04
Description:

Channel name: Low energy : Time 15.2492 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
Description:

Channel name: High energy : Time 15.2492 +/- 0.0269 minutes : 3D mass peak list

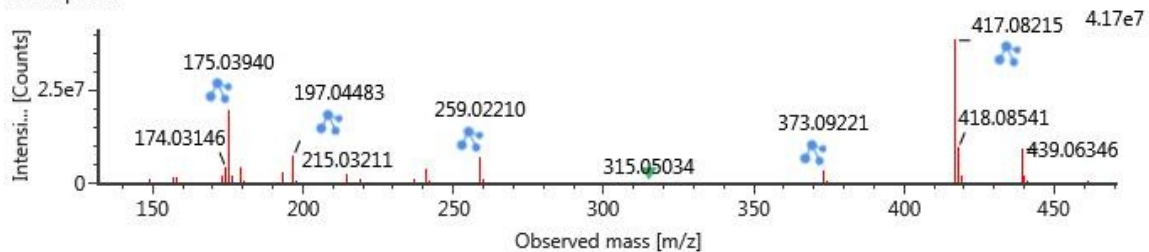
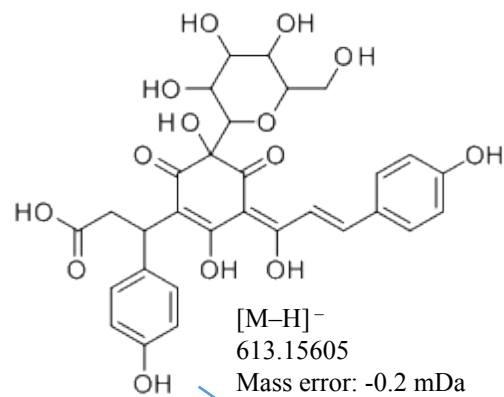


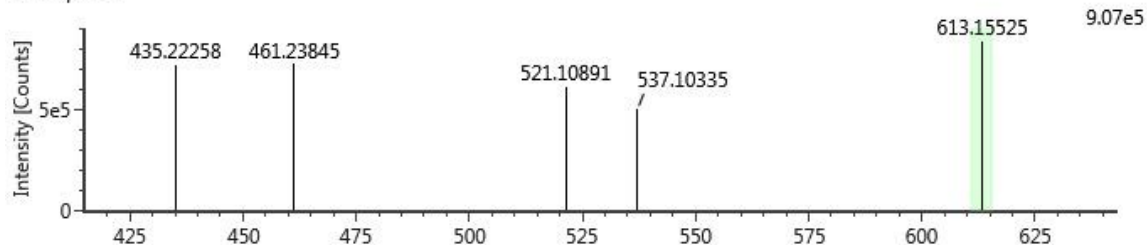
Fig. S2 (continued)

(27) safflomin C



Item name: 20150803-neg-04
Description:

Channel name: Low energy : Time 15.3346 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
Description:

Channel name: High energy : Time 15.3346 +/- 0.0269 minutes : 3D mass peak list

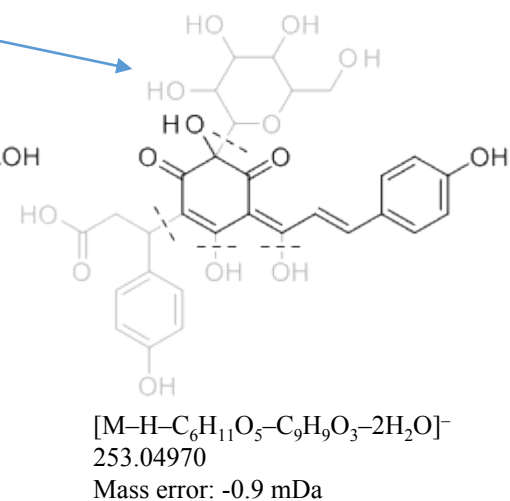
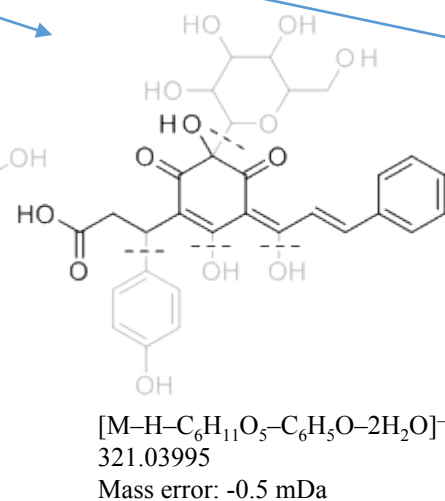
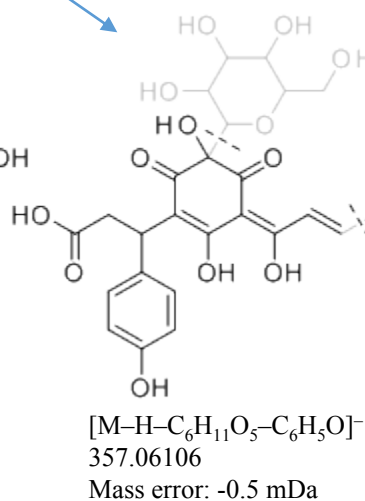
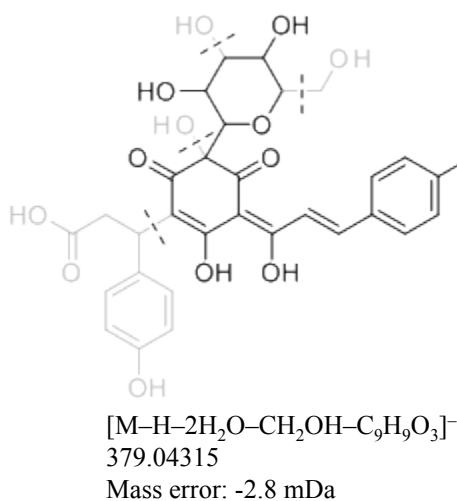
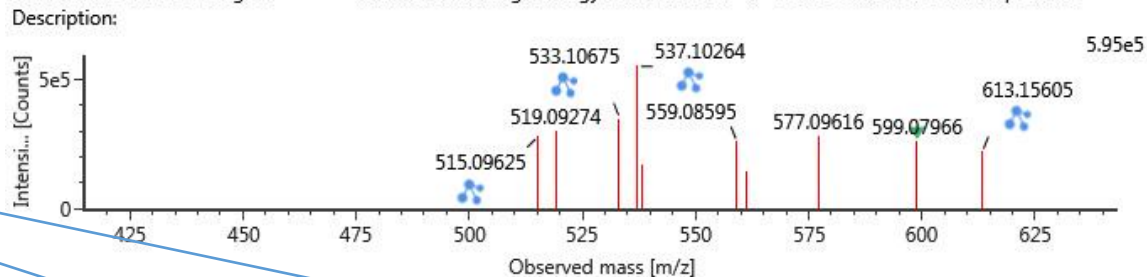


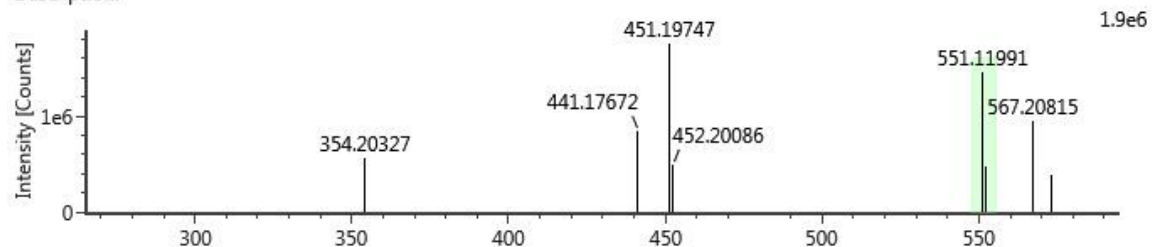
Fig. S2 (continued)

(28) lithospermic acid monomethyl ester

Item name: 20150803-neg-04

Channel name: Low energy : Time 15.4651 +/- 0.0269 minutes : 3D mass peak list

Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 15.4651 +/- 0.0269 minutes : 3D mass peak list

Description:

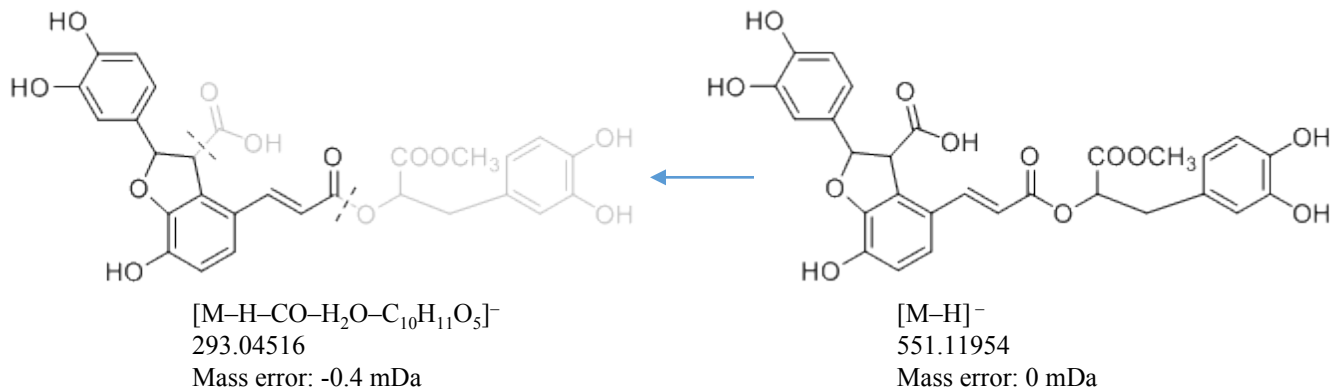
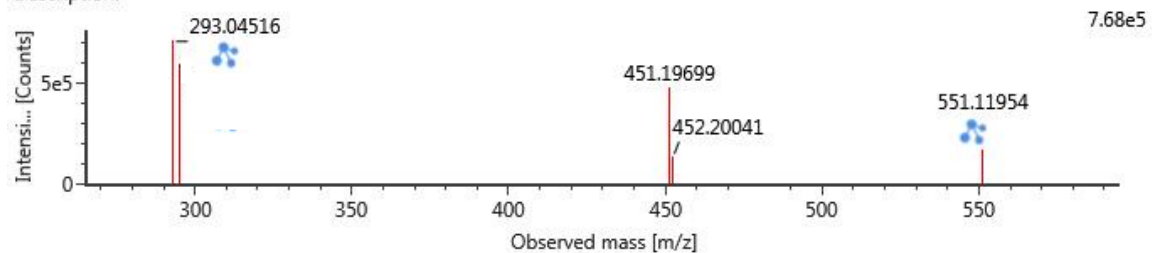
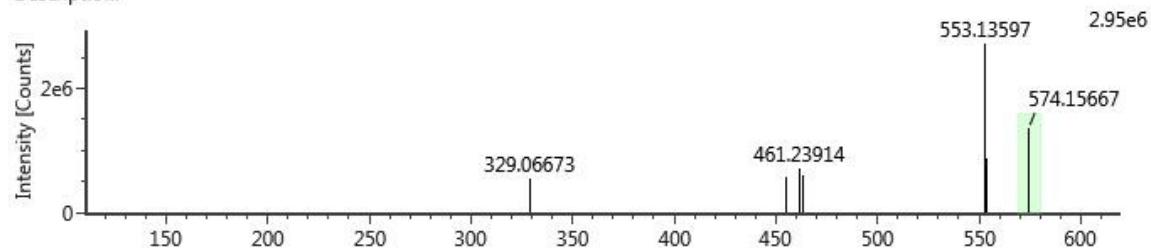


Fig. S2 (continued)

(29) cartormin

Item name: 20150803-neg-04
Description:

Channel name: Low energy ; Time 15.8575 +/- 0.0269 minutes : 3D mass peak list



Item name: 20150803-neg-04
Description:

Channel name: High energy ; Time 15.8575 +/- 0.0269 minutes : 3D mass peak list

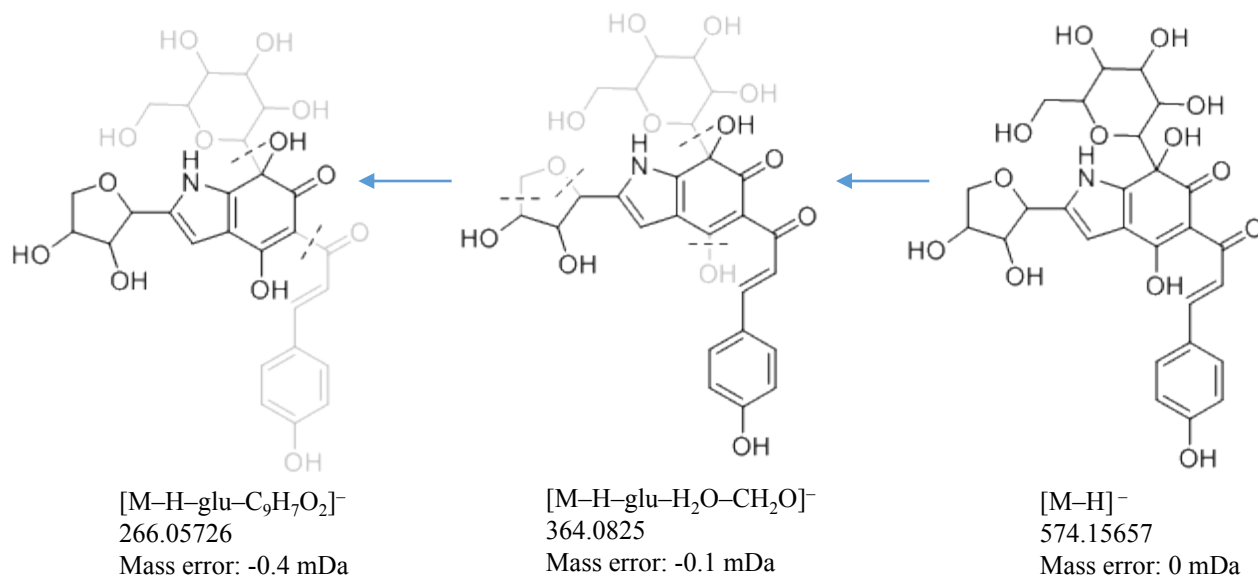
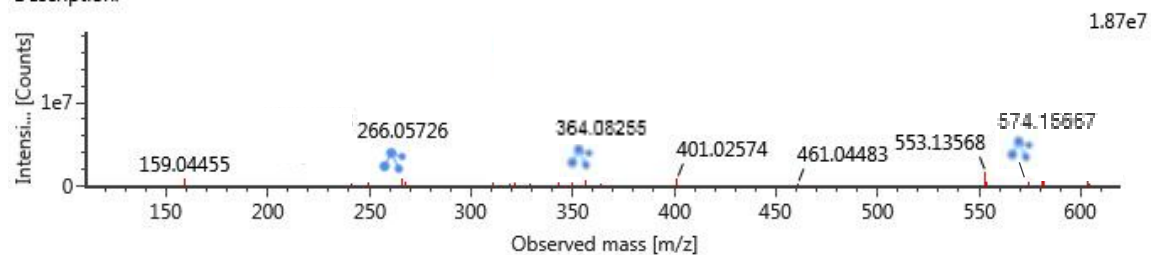


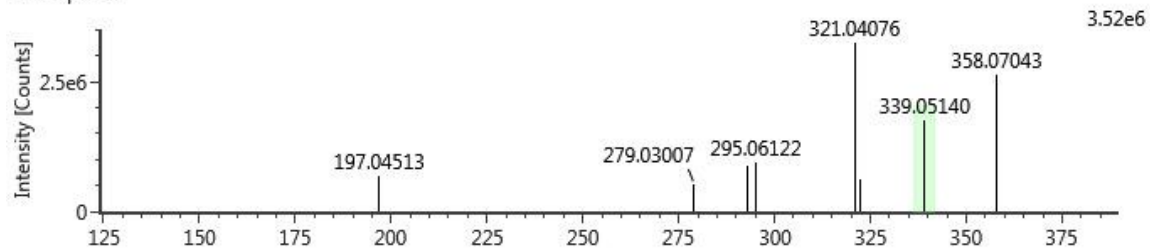
Fig. S2 (continued)

(30) salvianolic acid G

Item name: 20150803-neg-04

Channel name: Low energy : Time 15.9222 +/- 0.0269 minutes : 3D mass peak list

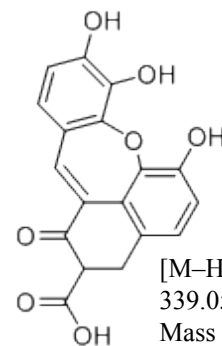
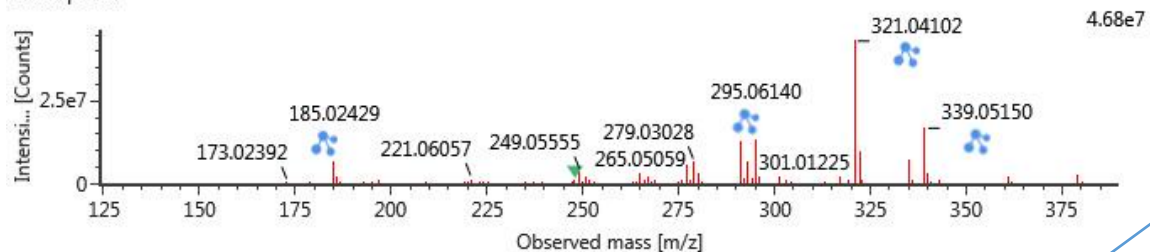
Description:



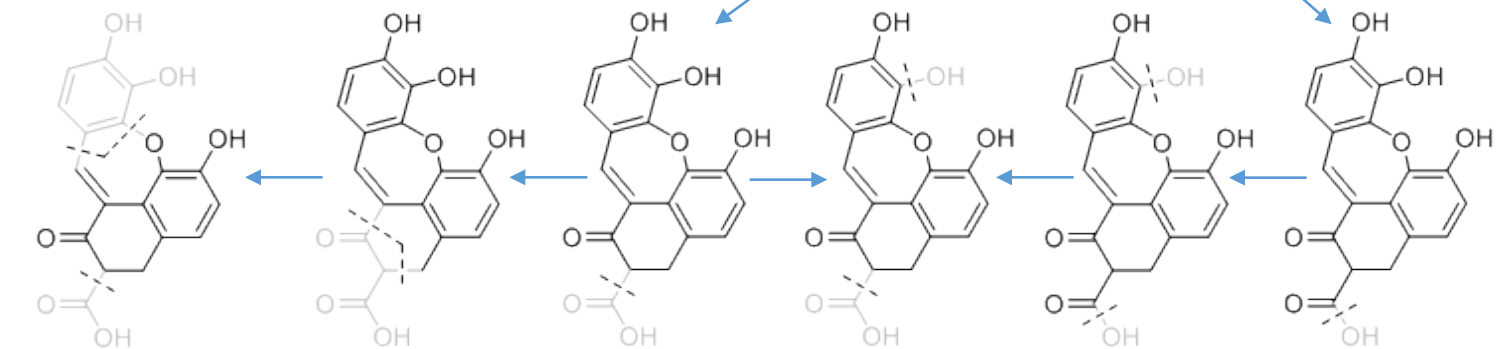
Item name: 20150803-neg-04

Channel name: High energy : Time 15.9222 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H]^-$
339.05150
Mass error: 0.5 mDa



$[M-H-CO-H_2O-C_6H_4O_2]^-$	$[M-H-C_3H_2O_3]^-$	$[M-H-CO-H_2O]^-$	$[M-H-CO-2H_2O]^-$	$[M-H-2H_2O]^-$	$[M-H-H_2O]^-$
185.02429	253.04957	295.06140	277.05073	303.03006	321.04102
Mass error: -0.1 mDa	Mass error: -1.1 mDa	Mass error: 0.2 mDa	Mass error: 0.1 mDa	Mass error: 0.2 mDa	Mass error: 0.6 mDa

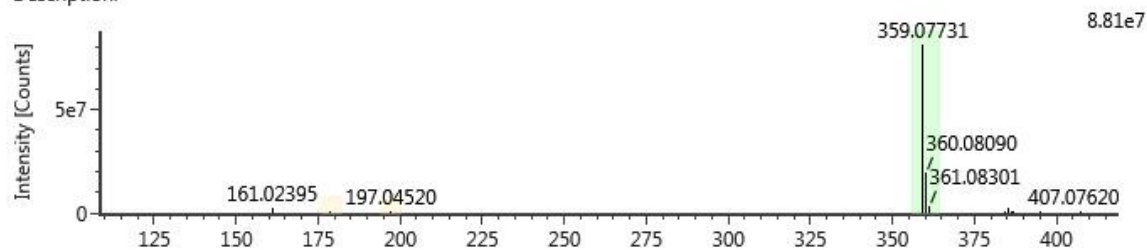
Fig. S2 (continued)

(31) rosmarinic acid

Item name: 20150803-neg-04

Channel name: Low energy : Time 16.1185 +/- 0.0269 minutes : 3D mass peak list

Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 16.1185 +/- 0.0269 minutes : 3D mass peak list

Description:

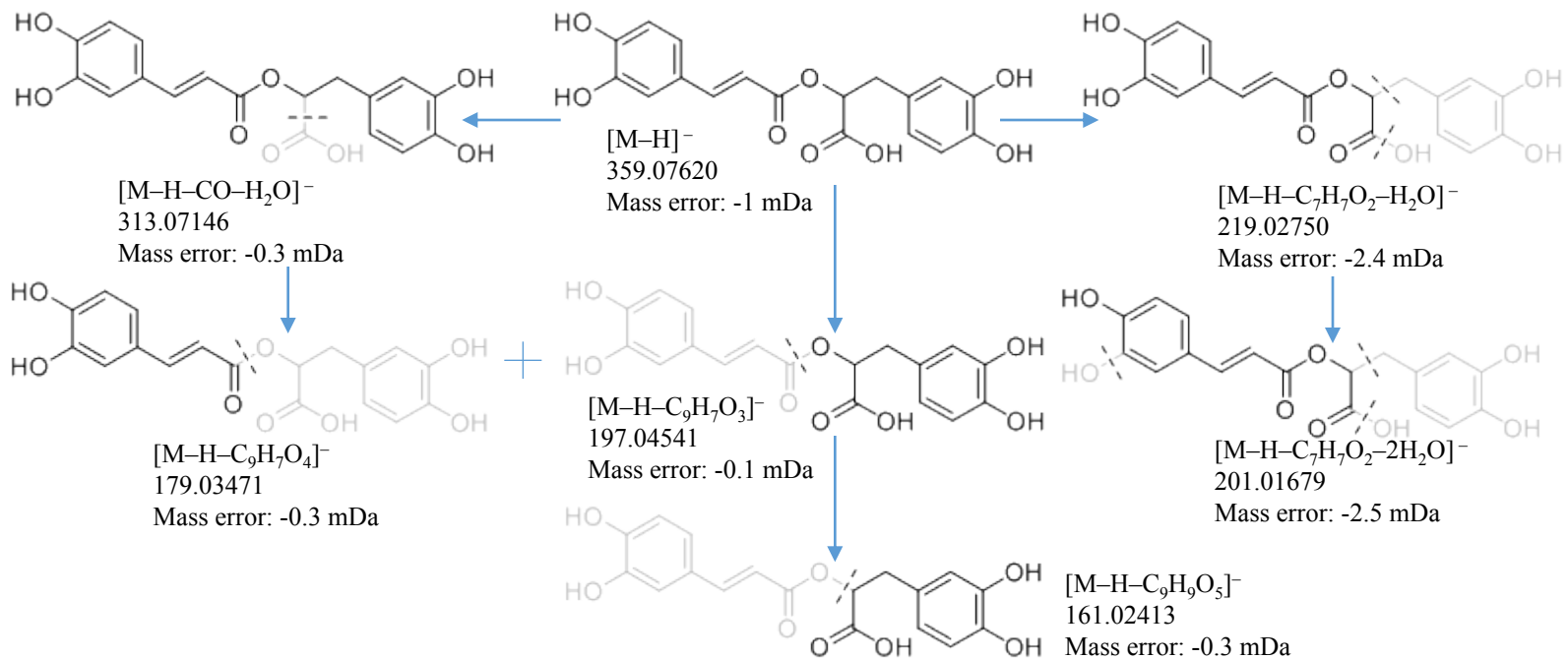
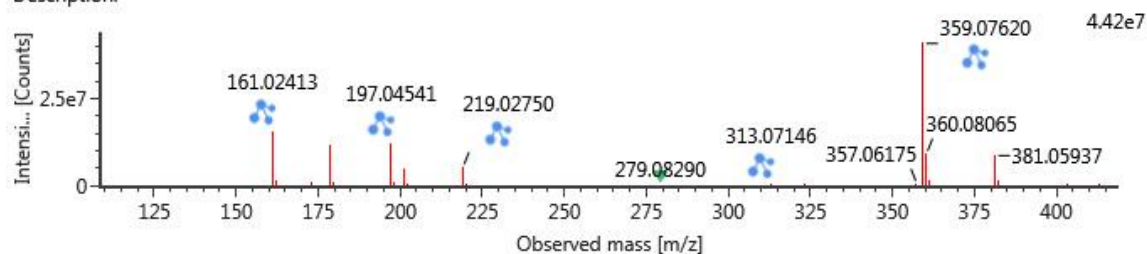


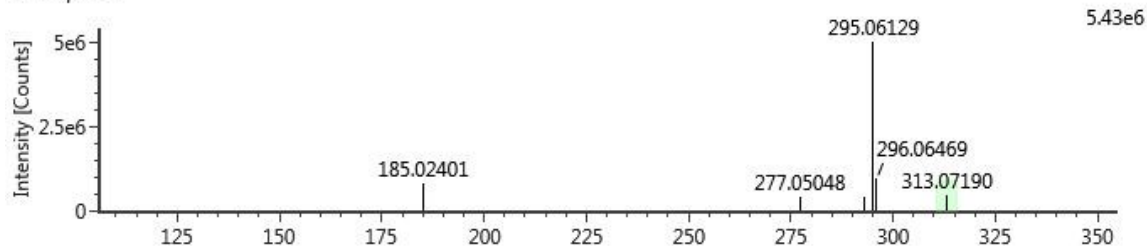
Fig. S2 (continued)

(32) salvianolic acid F

Item name: 20150803-neg-04

Channel name: Low energy : Time 16.4215 +/- 0.0269 minutes : 3D mass peak list

Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 16.4215 +/- 0.0269 minutes : 3D mass peak list

Description:

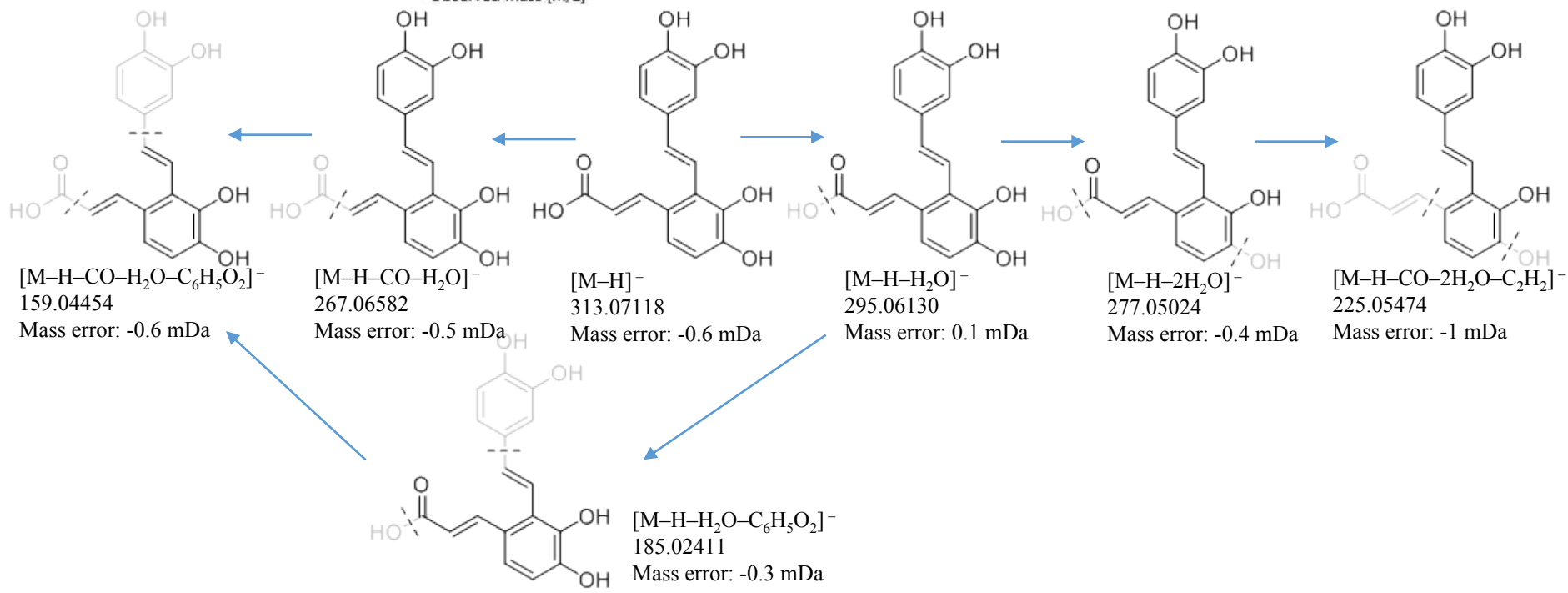
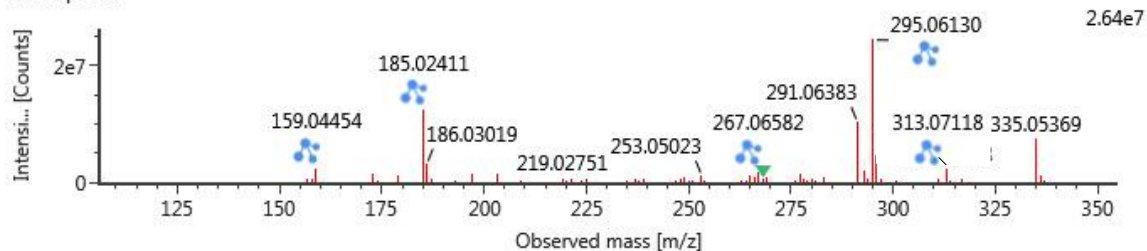


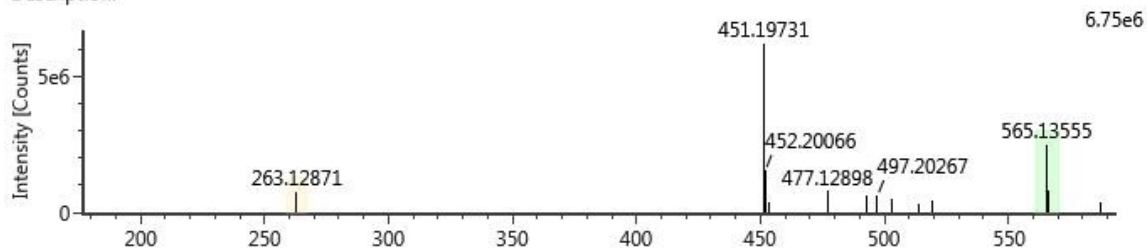
Fig. S2 (continued)

(34) dimethylthiospermate

Item name: 20150803-neg-04

Channel name: Low energy : Time 17.6904 +/- 0.0269 minutes : 3D mass peak list

Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 17.6904 +/- 0.0269 minutes : 3D mass peak list

Description:

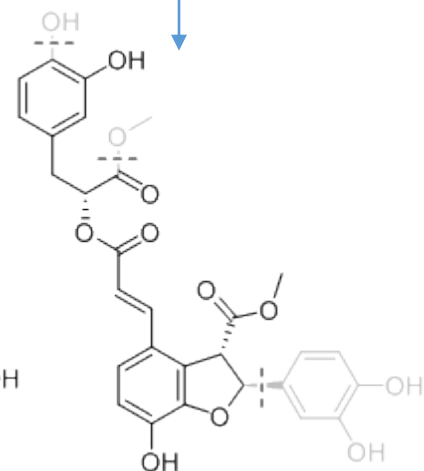
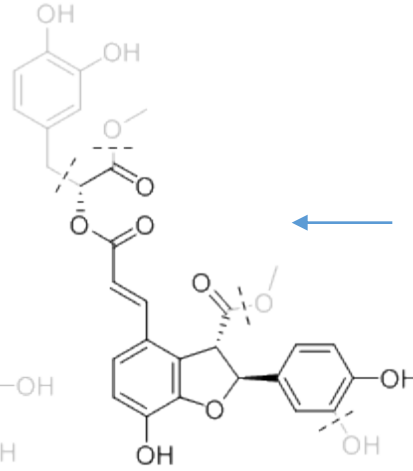
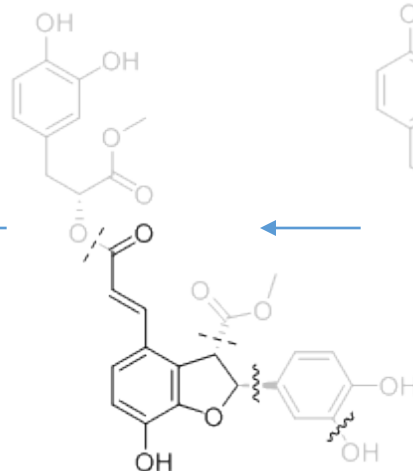
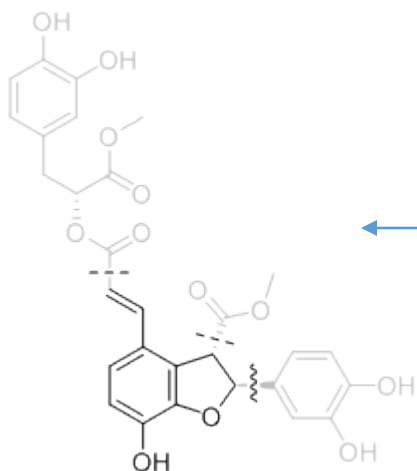
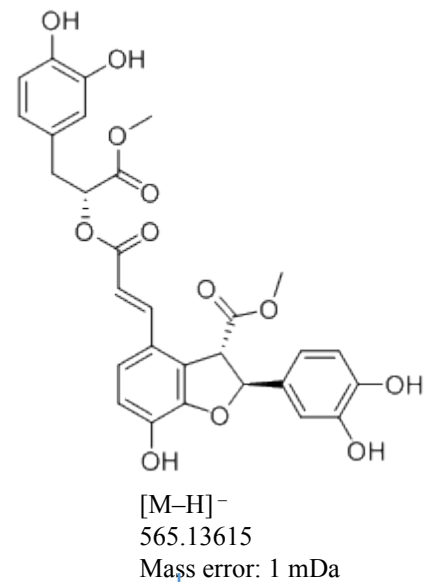
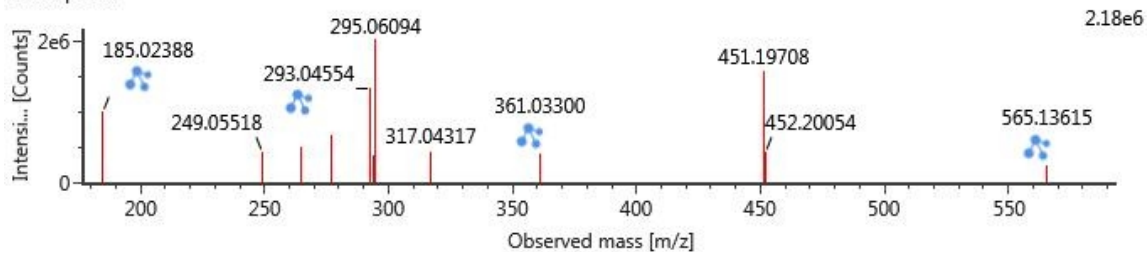


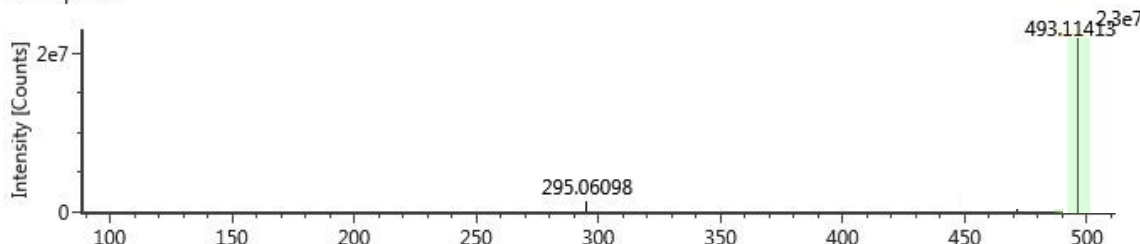
Fig. S2 (continued)

(35) salvianolic acid A

Item name: 20150803-neg-04

Channel name: Low energy : Time 18.1578 +/- 0.0269 minutes : 3D mass peak list

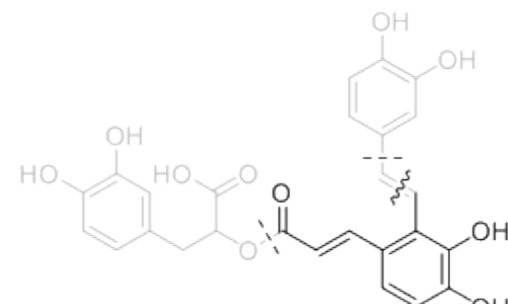
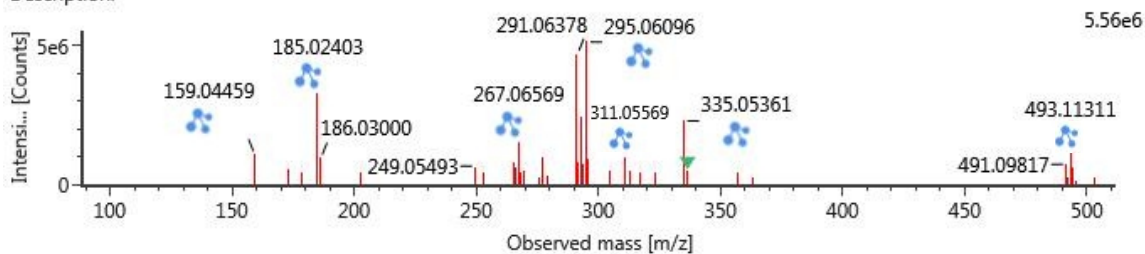
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 18.1578 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H-C_9H_9O_5-C_6H_5O_2]^-$
185.02403, 173.02335
Mass error: -0.4 mDa

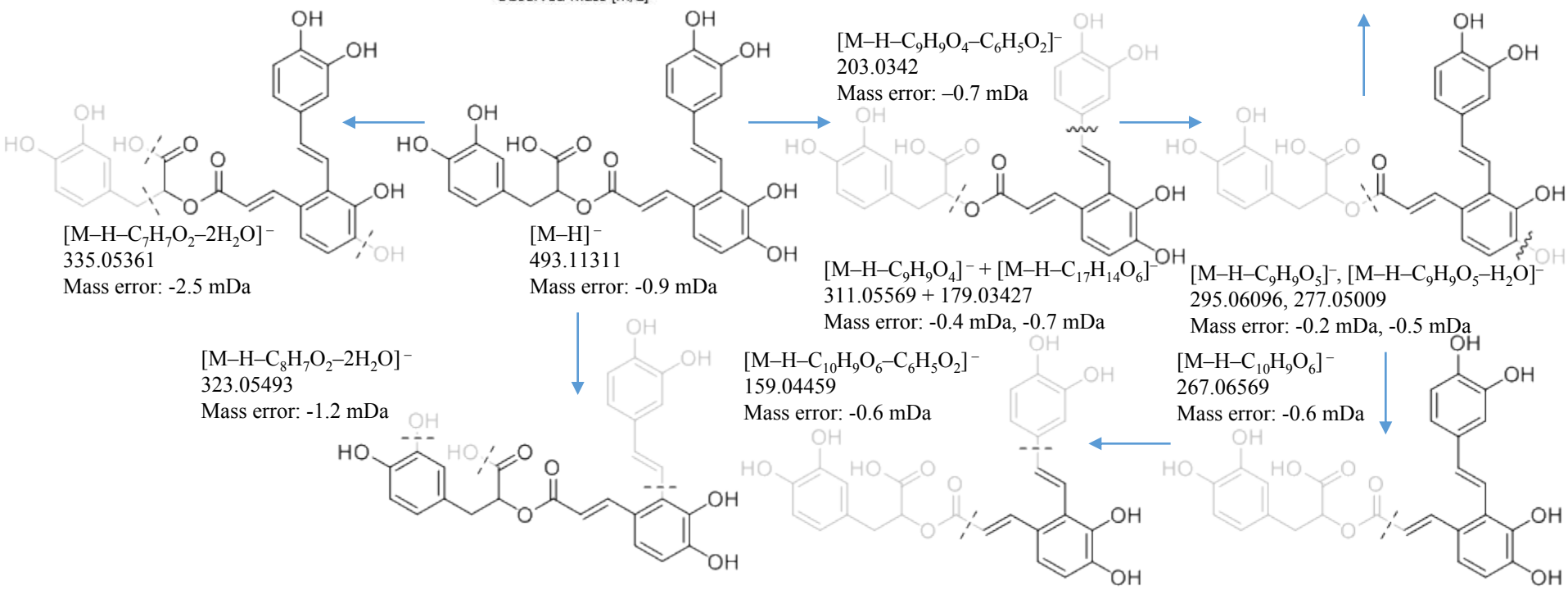
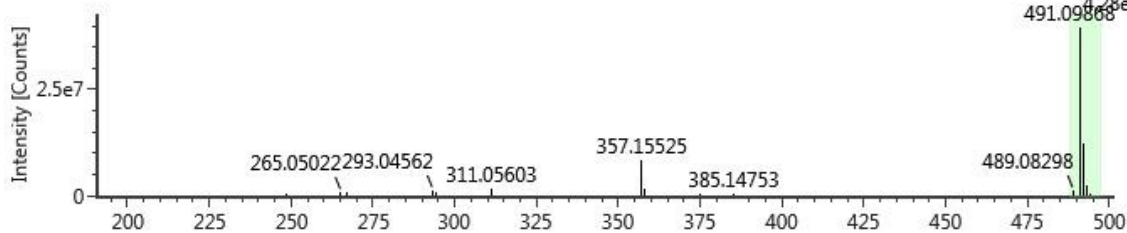


Fig. S2 (continued)

(36) salvianolic acid C

Item name: 20150803-neg-04 Channel name: Low energy : Time 19.2164 +/- 0.0269 minutes : 3D mass peak list
Description:



Item name: 20150803-neg-04 Channel name: High energy : Time 19.2164 +/- 0.0269 minutes : 3D mass peak list
Description:

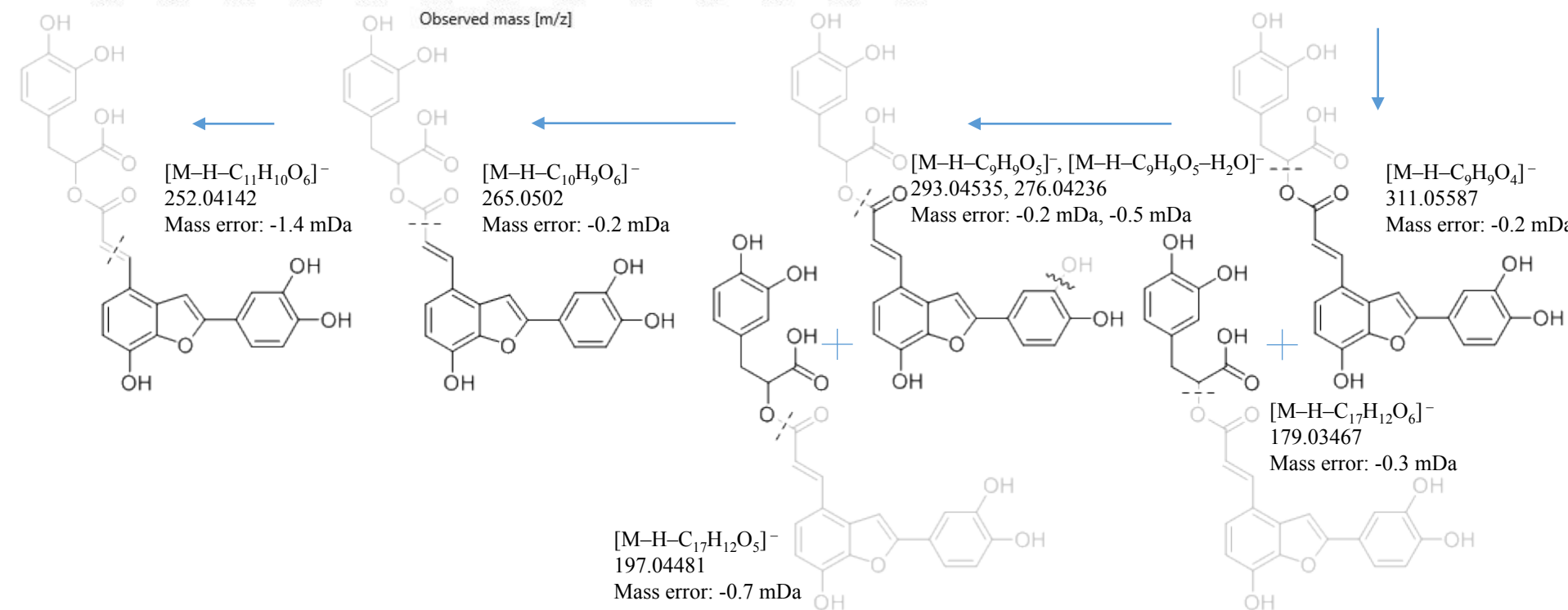
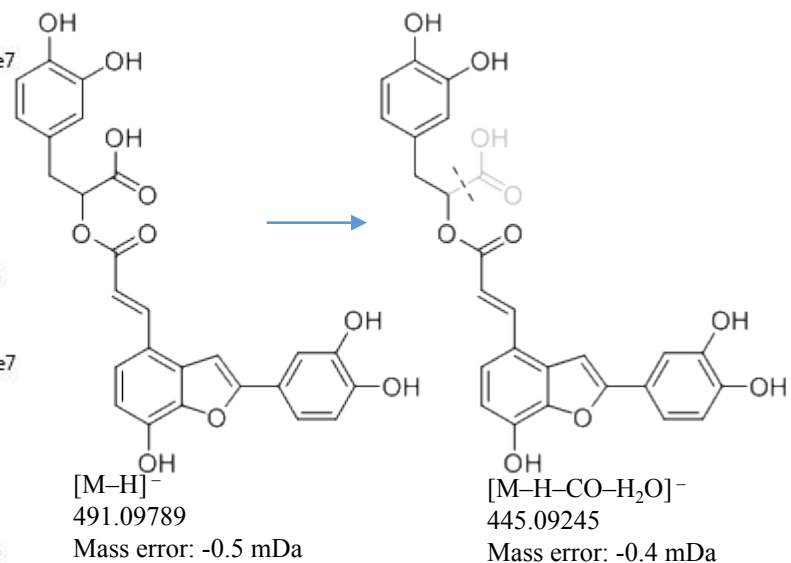
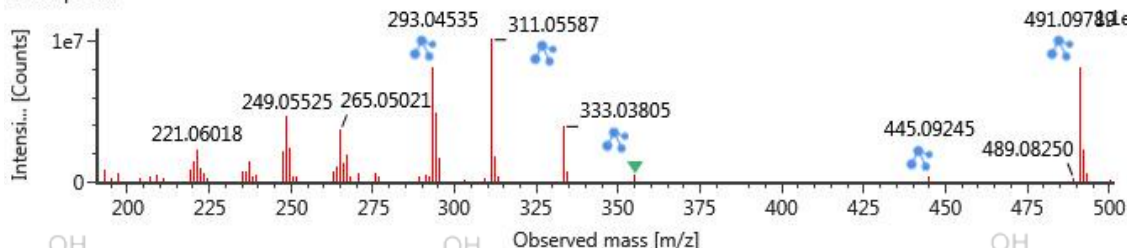


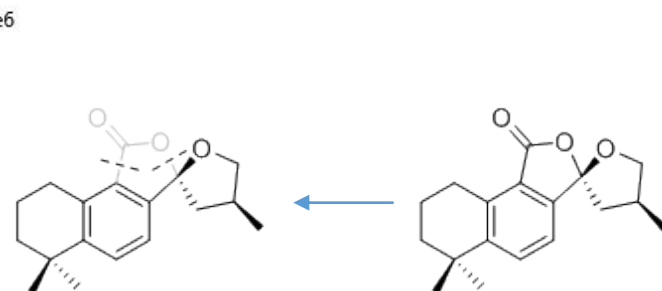
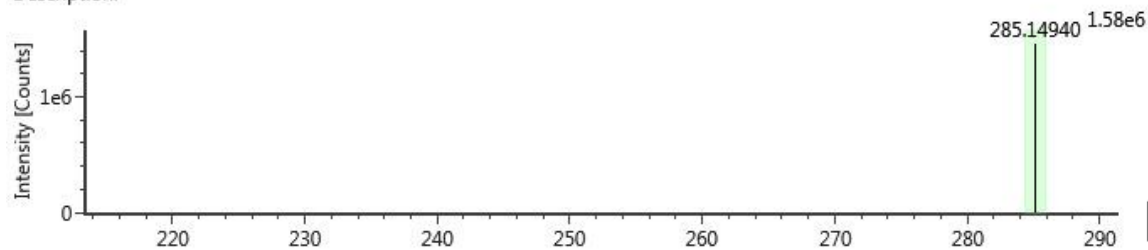
Fig. S2 (continued)

(37) epicryptoacetalide

Item name: 20150803-neg-04

Channel name: Low energy : Time 21.1630 +/- 0.0269 minutes : 3D mass peak list

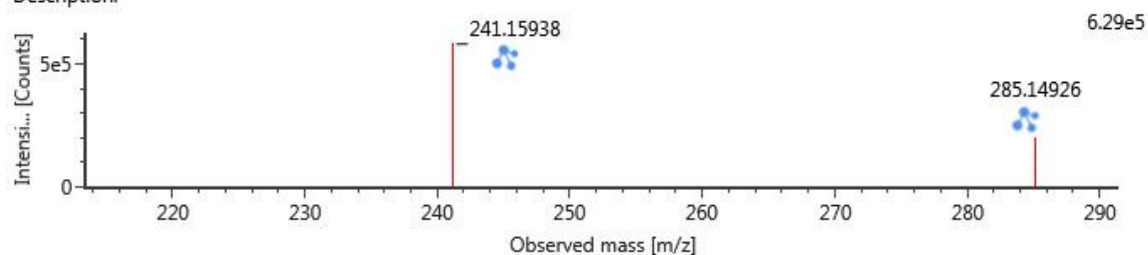
Description:



Item name: 20150803-neg-04

Channel name: High energy : Time 21.1630 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H-CO_2]^-$
241.15938
Mass error: -0.4 mDa

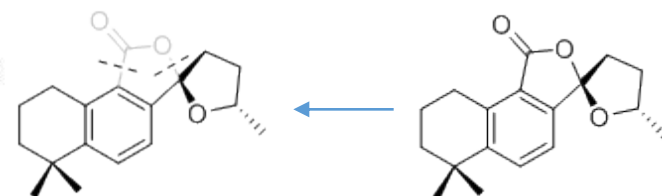
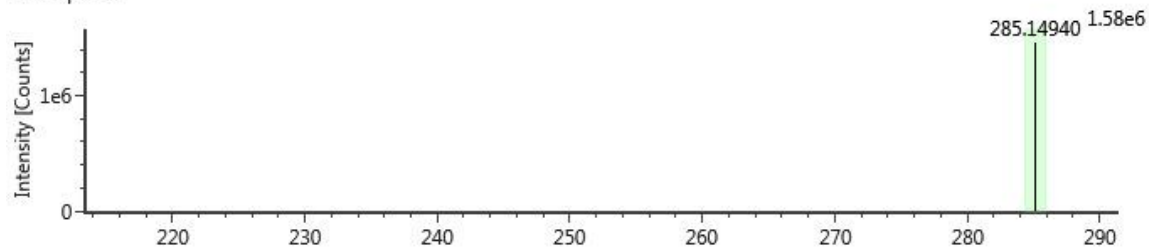
$[M-H]^-$
285.14926
Mass error: -0.4 mDa

(38) cryptoacetalide

Item name: 20150803-neg-04

Channel name: Low energy : Time 21.5795 +/- 0.0269 minutes : 3D mass peak list

Description:



$[M-H-CO_2]^-$
241.15938
Mass error: -0.4 mDa

$[M-H]^-$
285.14926
Mass error: -0.4 mDa

Item name: 20150803-neg-04

Channel name: High energy : Time 21.1630 +/- 0.0269 minutes : 3D mass peak list

Description:

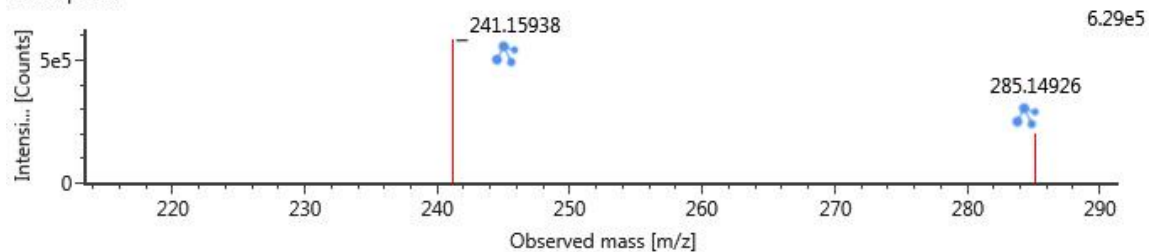


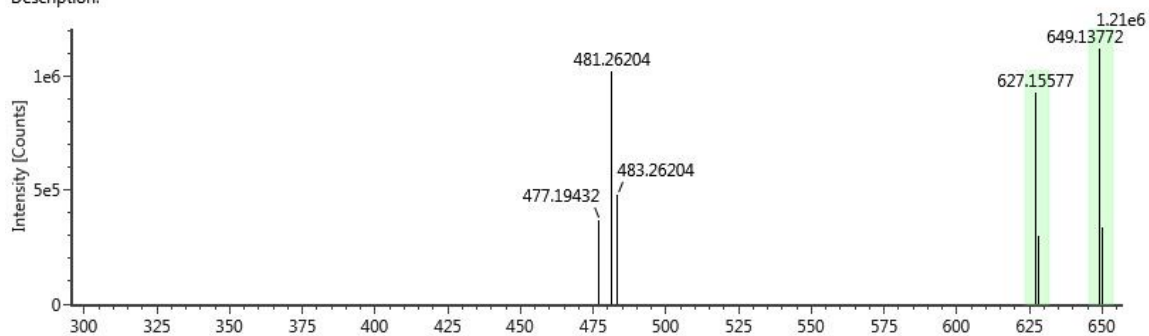
Fig. S2 (continued)

(41) quercetin-3,7-di-O-glucoside

Item name: 20150803-pos-001

Description:

Channel name: Low energy : Time 12.5896 +/- 0.0288 minutes : 3D mass peak list



Item name: 20150803-pos-001

Description:

Channel name: High energy : Time 12.5896 +/- 0.0288 minutes : 3D mass peak list

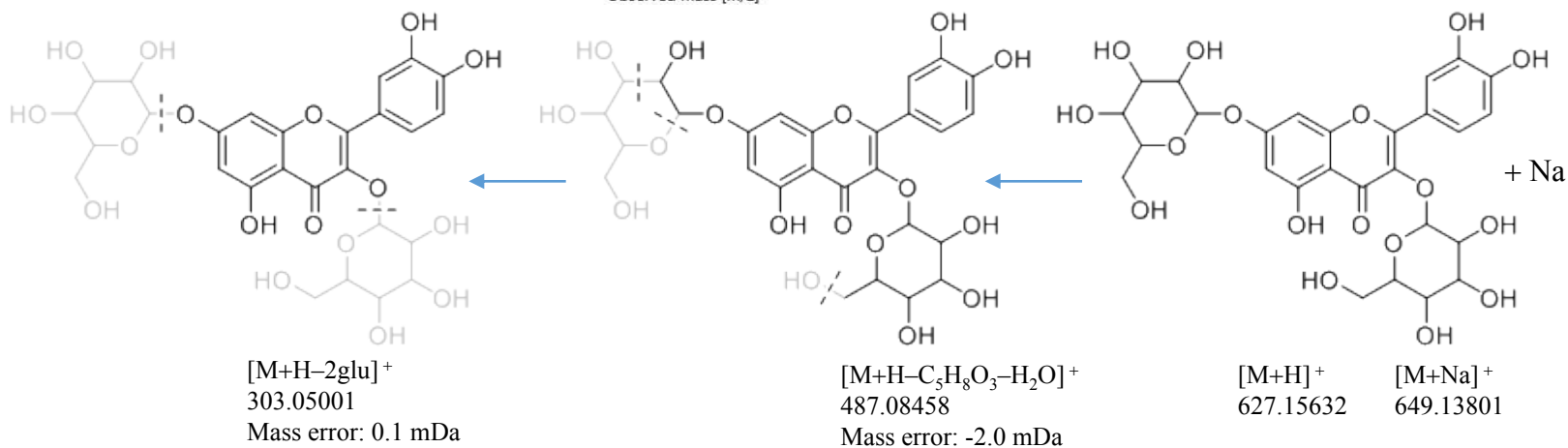
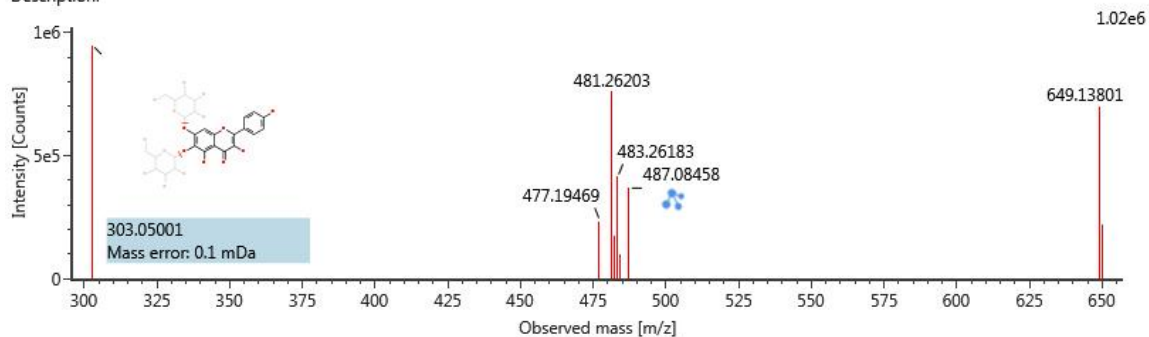


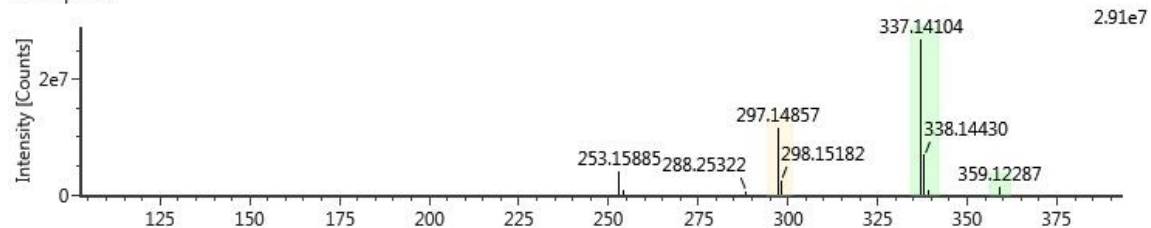
Fig. S2 (continued)

(44) danshenol C

Item name: 20150803-pos-004

Channel name: Low energy : Time 24.5003 +/- 0.0286 minutes : 3D mass peak list

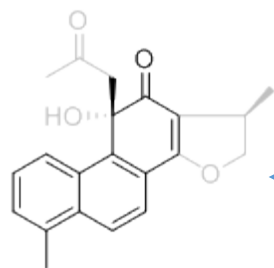
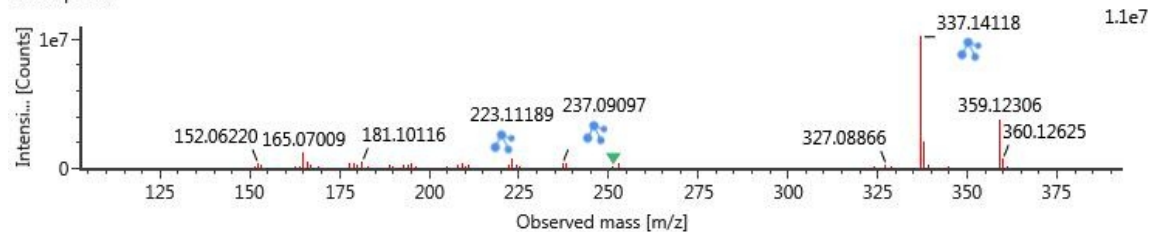
Description:



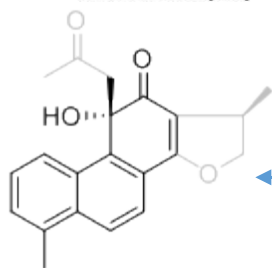
Item name: 20150803-pos-004

Channel name: High energy : Time 24.5003 +/- 0.0286 minutes : 3D mass peak list

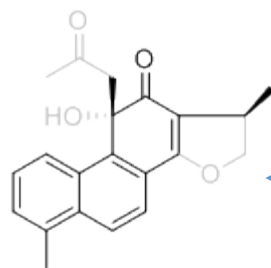
Description:



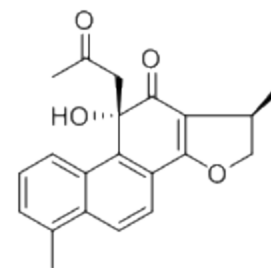
$[M+H-COCH_3-H_2O-C_3H_6O]^+$
223.11189
Mass error: 0.1 mDa



$[M+H-COCH_3-C_3H_6O]^+$
237.09097
Mass error: 0 mDa



$[M+H-COCH_3-H_2O-CH_2O]^+$
251.14307
Mass error: 0 mDa



$[M+H]^+$
337.14118
Mass error: -2.3 mDa

$[M+Na]^+$
359.12306