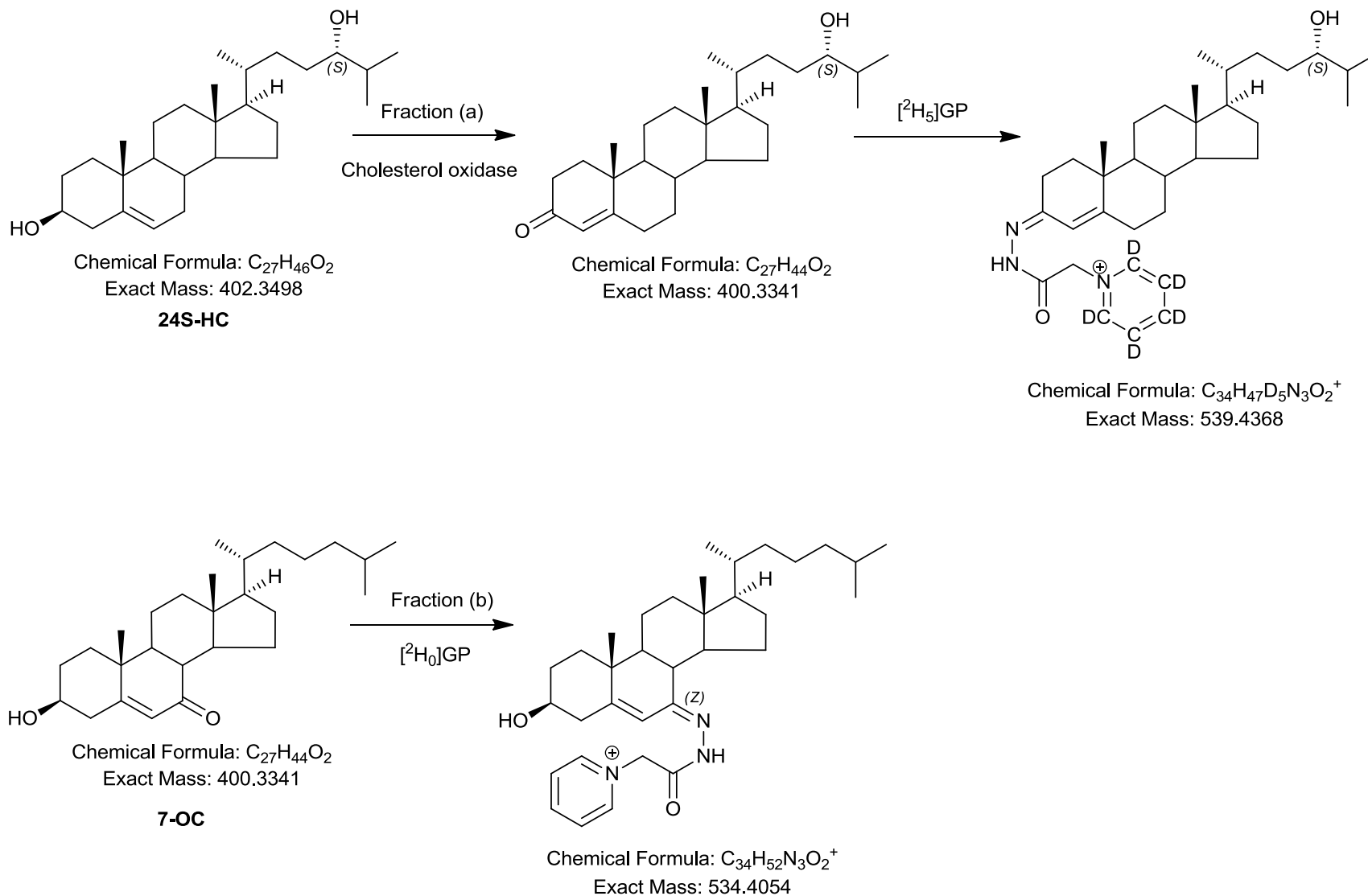
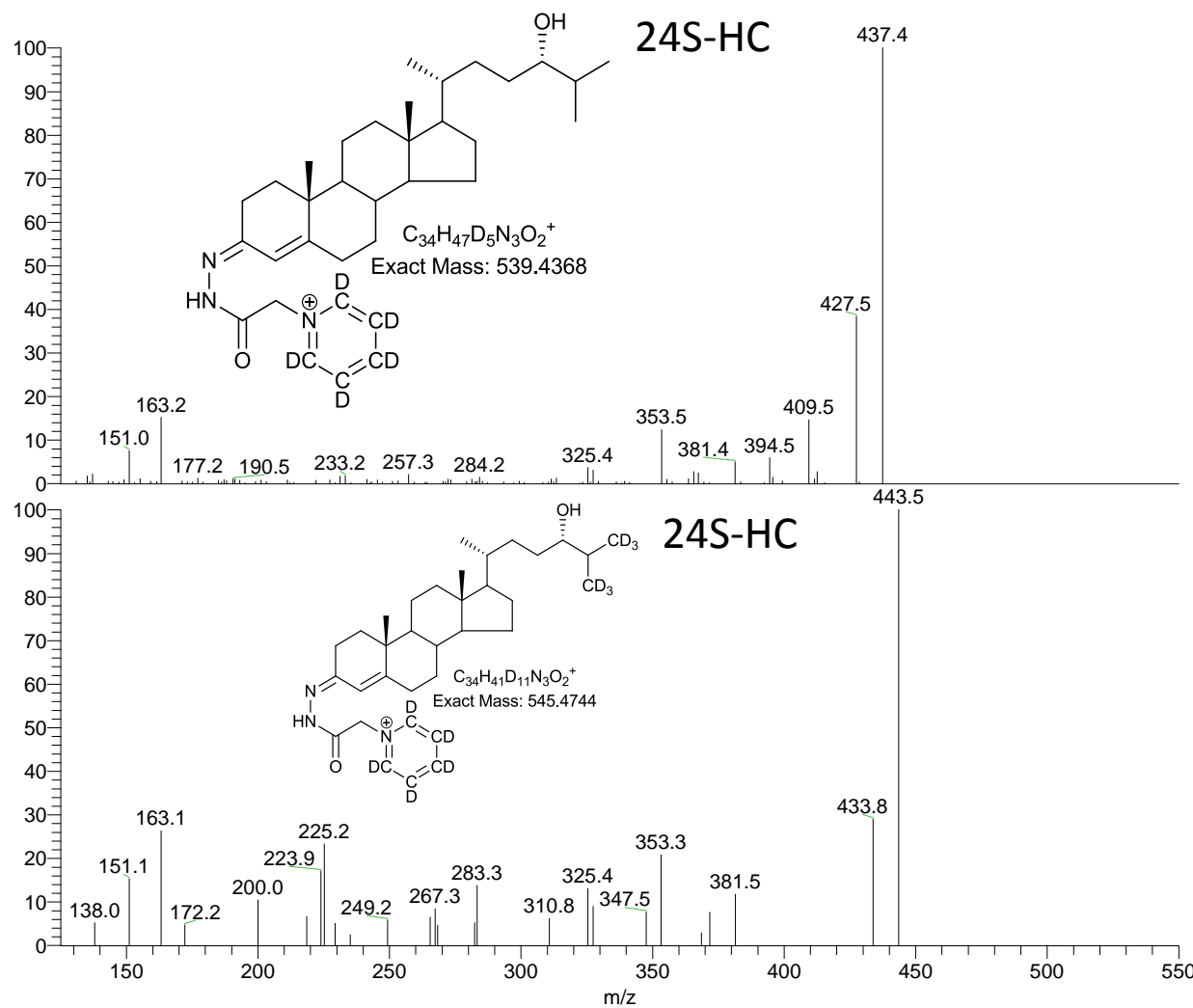


Figure S1



pc_plasma_bjorkem_mouse_fed-chole-d6_n...

12/02/13 16:27:20



NL: 1.42E3

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#1512 RT: 7.37 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

[²H₀]

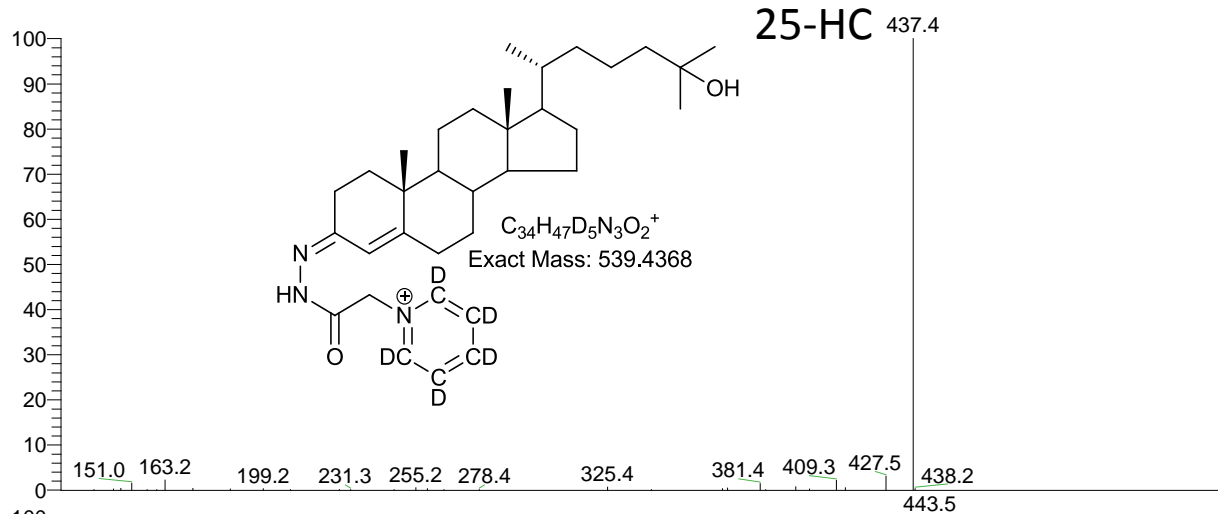
NL: 7.69E1

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_11#1449 RT: 7.35 AV: 1 F: ITMS + c ESI Full ms3 545.47@cid30.00 461.40@cid35.00 [125.00-550.00]

[²H₆]

pc_plasma_bjorkem_mouse_fed-chole-d6_n...

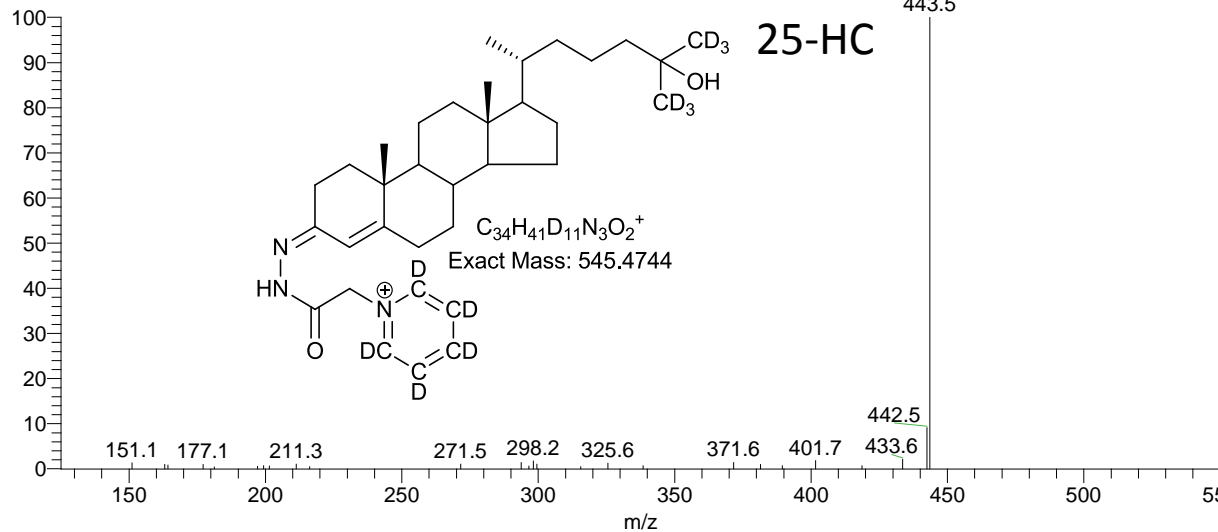
12/02/13 16:27:20



NL: 2.02E3

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#1545 RT: 7.53 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

[2H_0]



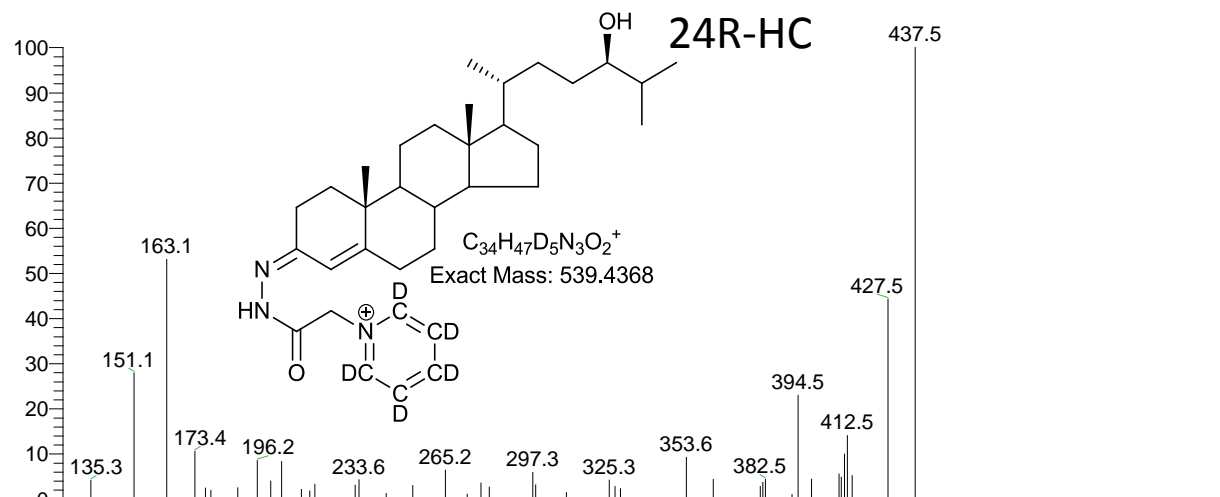
NL: 6.49E2

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_11#1482 RT: 7.52 AV: 1 F: ITMS + c ESI Full ms3 545.47@cid30.00 461.40@cid35.00 [125.00-550.00]

[2H_6]

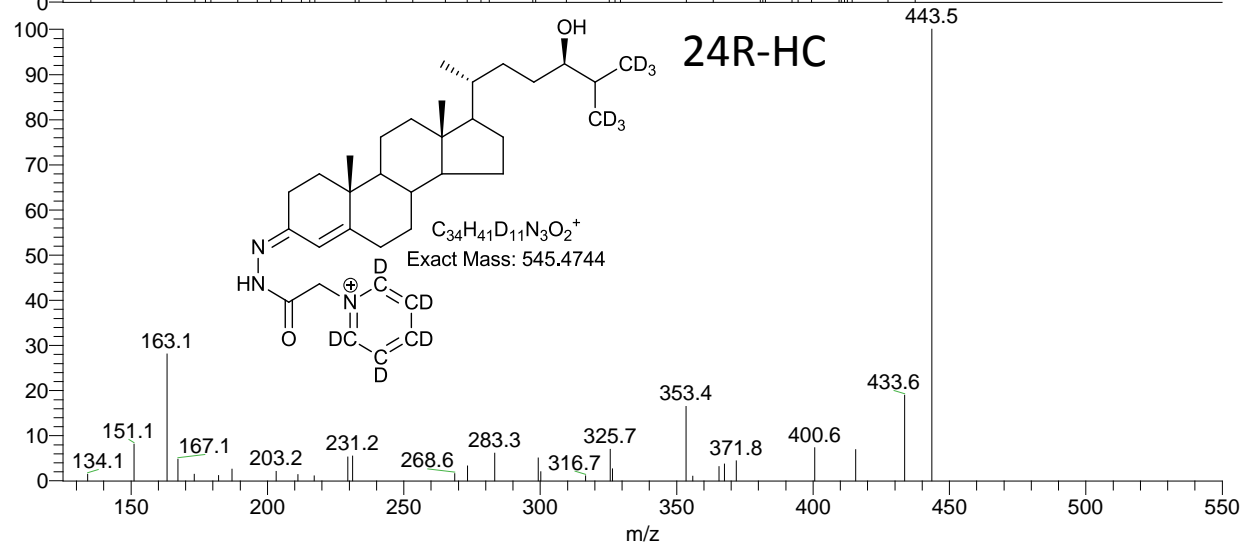
PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 11:57:45



NL: 1.62E2

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#1611 RT: 7.85 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

 $[^2H_0]$ 

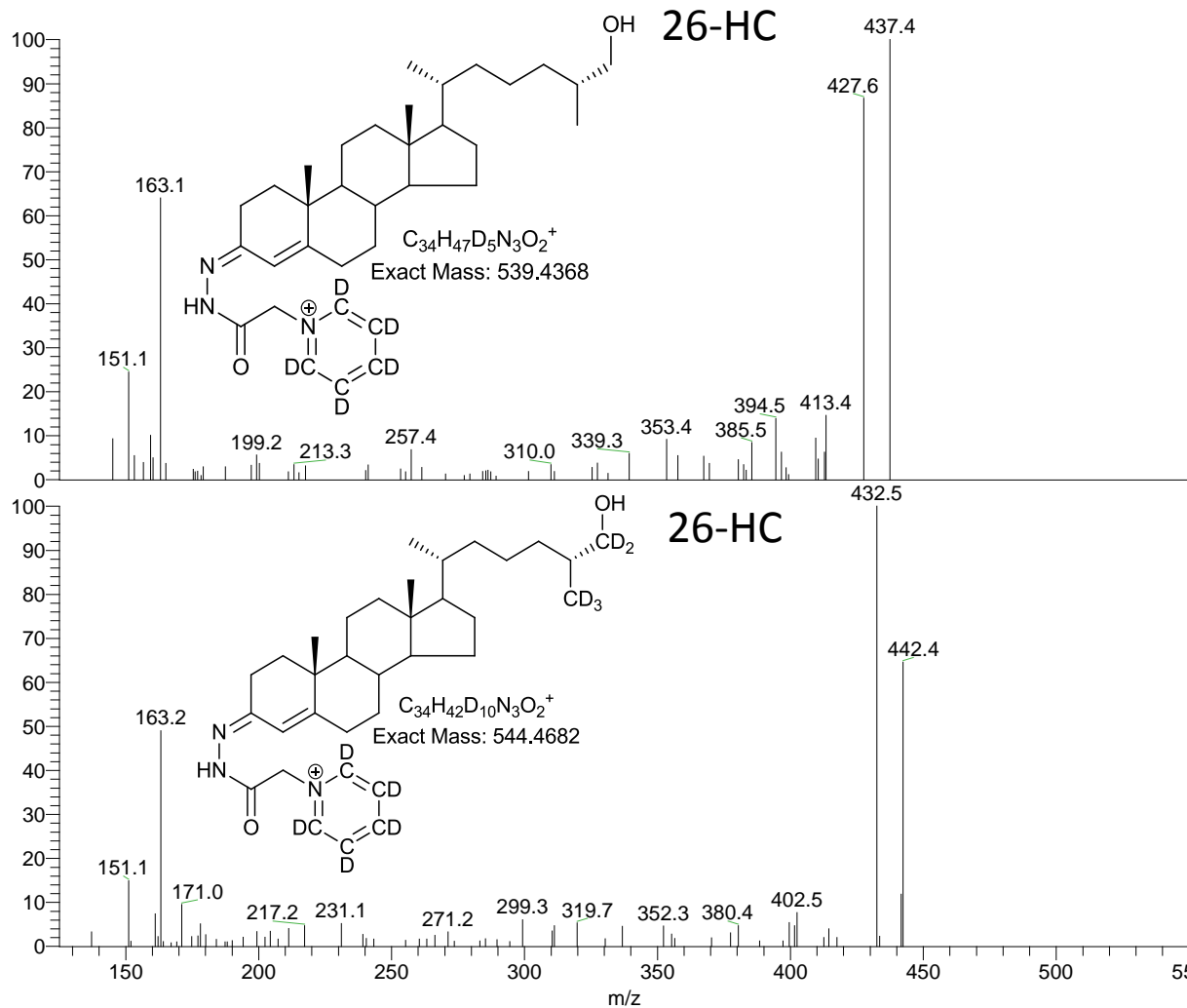
NL: 2.15E2

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_11#1539 RT: 7.81 AV: 1 F: ITMS + c ESI Full ms3 545.47@cid30.00 461.40@cid35.00 [125.00-550.00]

 $[^2H_6]$

pc_plasma_bjorkem_mouse_fed-chole-d6_n...

12/02/13 16:48:04



NL: 1.94E2

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#1626 RT: 7.92 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

[²H₀]

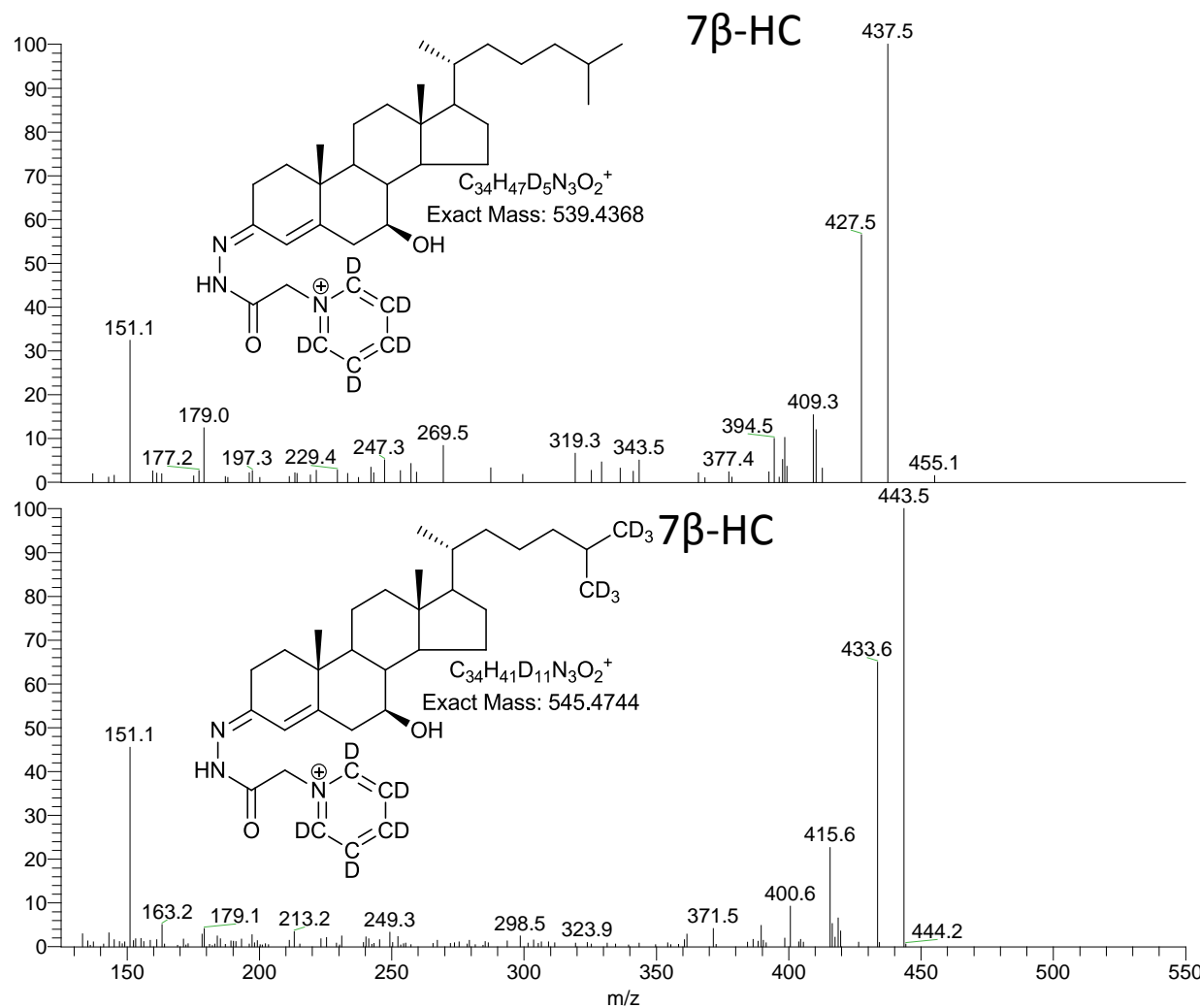
NL: 2.41E2

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_12#1629 RT: 7.88 AV: 1 F: ITMS + c ESI Full ms3 544.42@cid30.00 460.73@cid35.00 [125.00-550.00]

[²H₅]

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 11:57:45



NL: 2.63E2

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#1992 RT: 9.58 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

 $[^2H_0]$

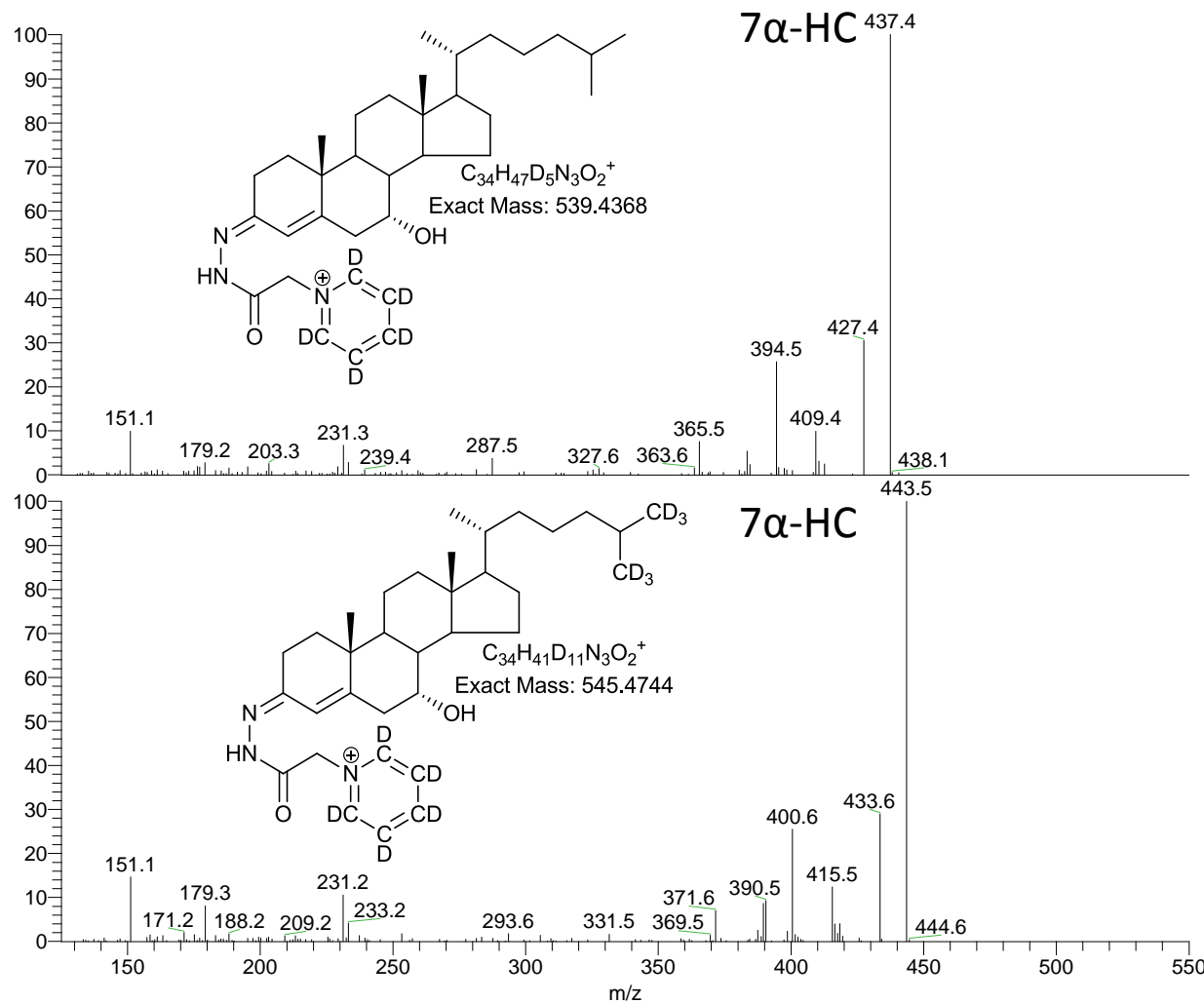
NL: 8.06E2

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_11#1914 RT: 9.58 AV: 1 F: ITMS + c ESI Full ms3 545.47@cid30.00 461.40@cid35.00 [125.00-550.00]

 $[^2H_6]$

pc_plasma_bjorkem_mouse_fed-chole-d6_n...

12/02/13 16:27:20



NL: 1.96E3

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_02#2142 RT: 10.16 AV: 1 F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

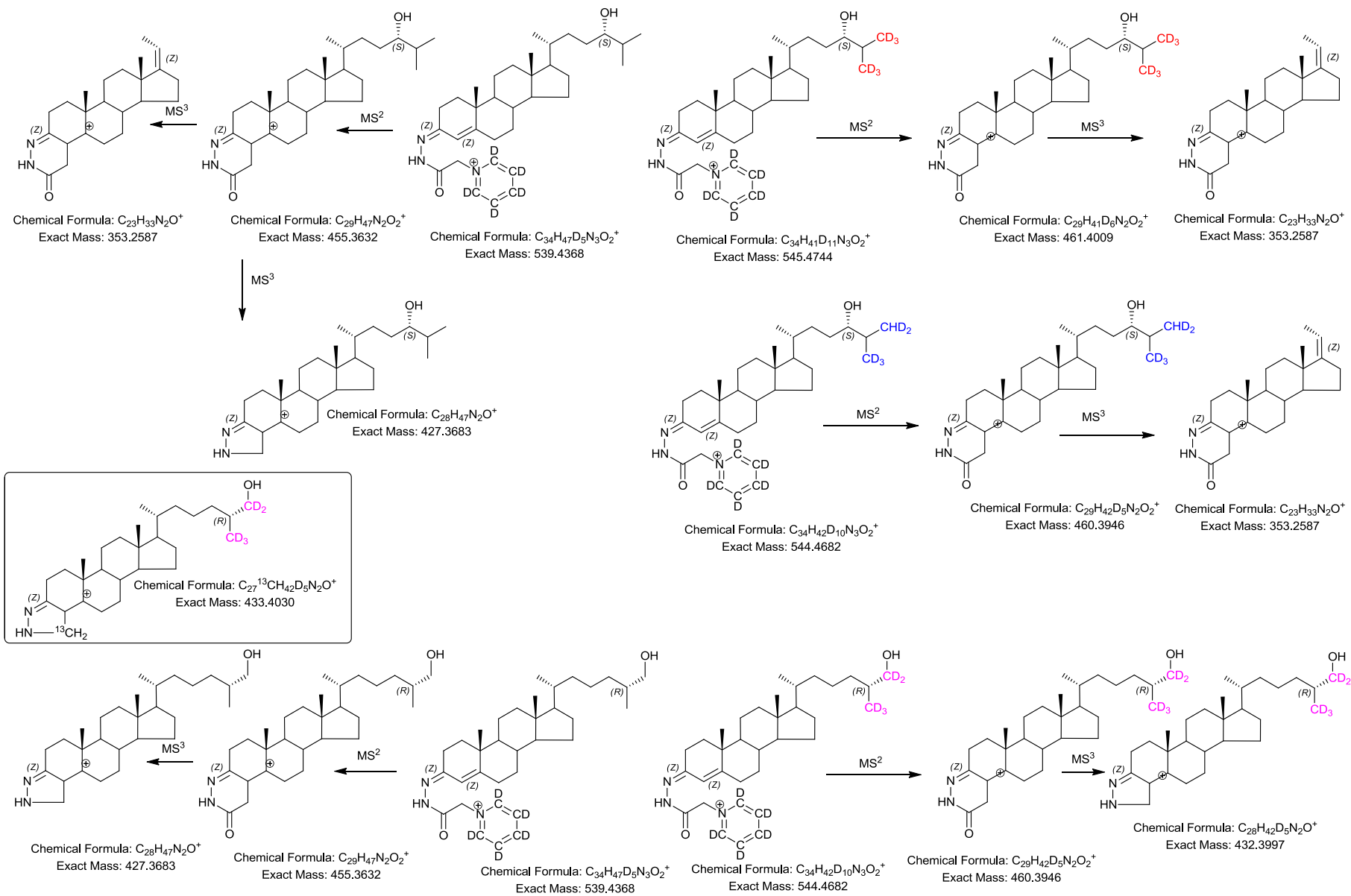
 $[^2H_0]$

NL: 1.85E3

pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_11#2055 RT: 10.15 AV: 1 F: ITMS + c ESI Full ms3 545.47@cid30.00 461.40@cid35.00 [125.00-550.00]

 $[^2H_6]$

Figure S3



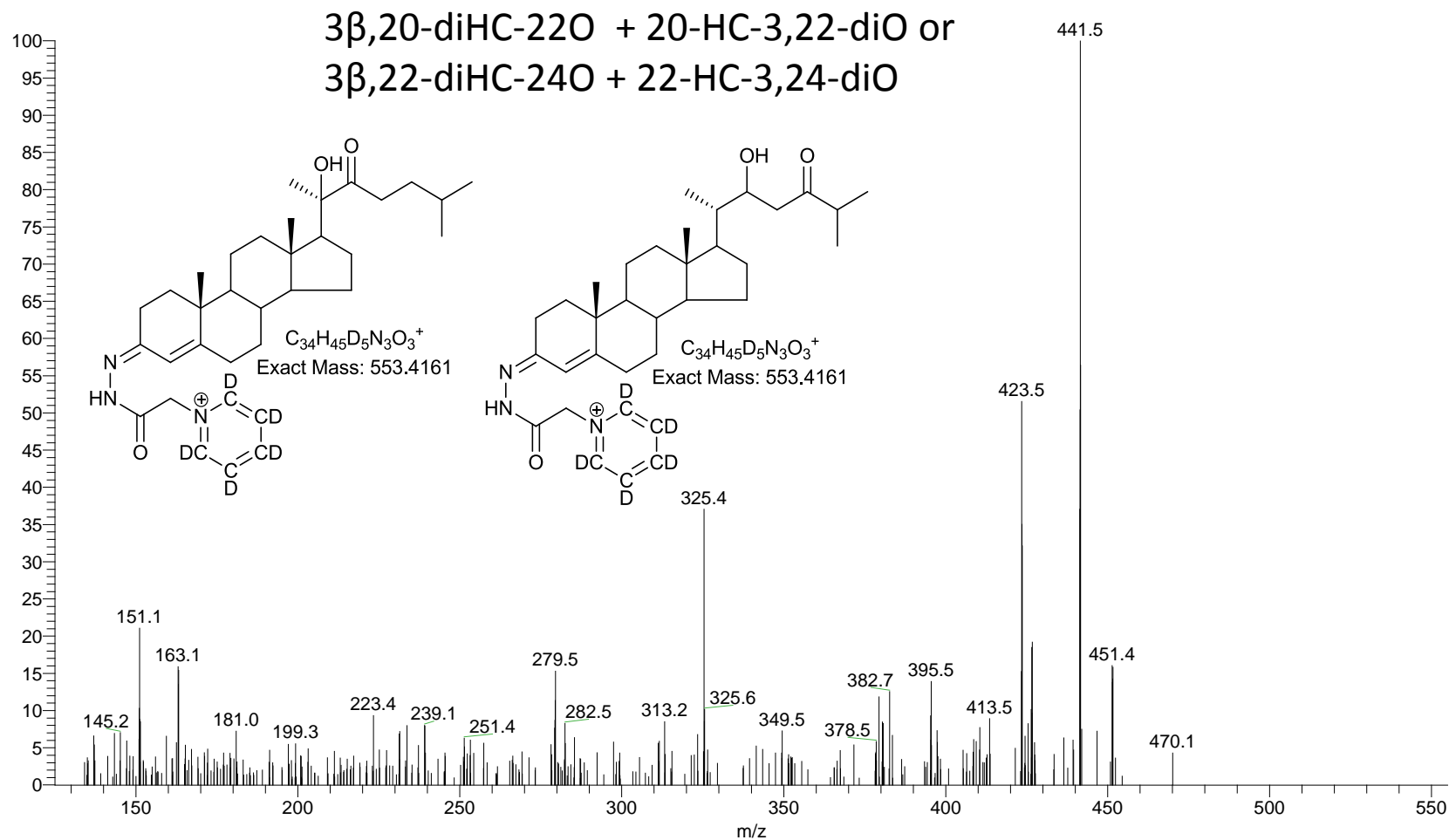
PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 12:18:30

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5

45-1499 RT: 7.03-7.29 AV: 18 NL: 1.31E1

F: ITMS + c ESI Full ms3 553.42@cid30.00 469.34@cid35.00 [125.00-5]



PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 12:59:55

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5

F: ITMS + c ESI Full ms3 569.41@cid30.00 485.34@cid35.00 [130.00-5:

3-1002 RT: 4.71-4.85 AV: 10 NL: 7.79

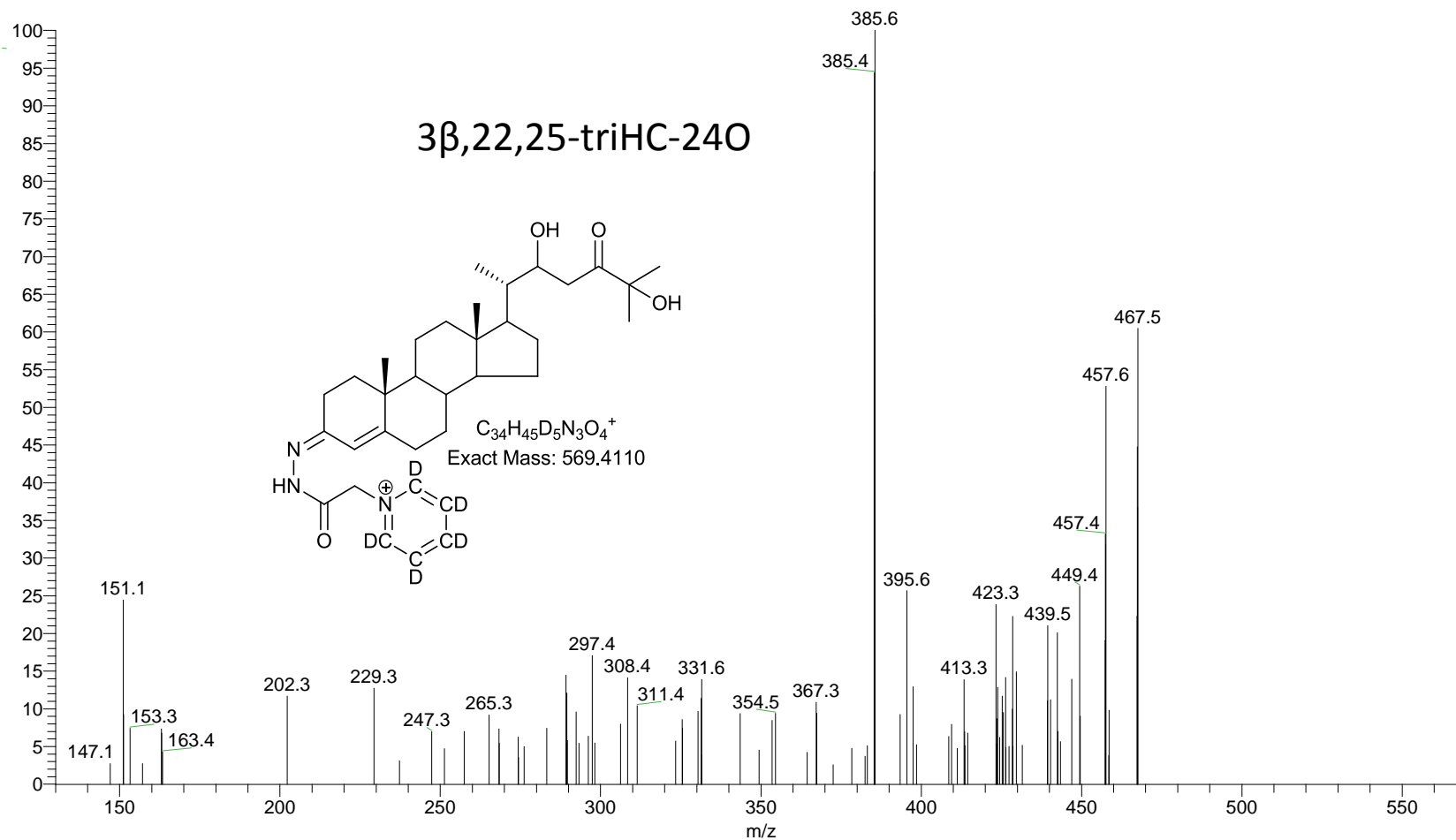
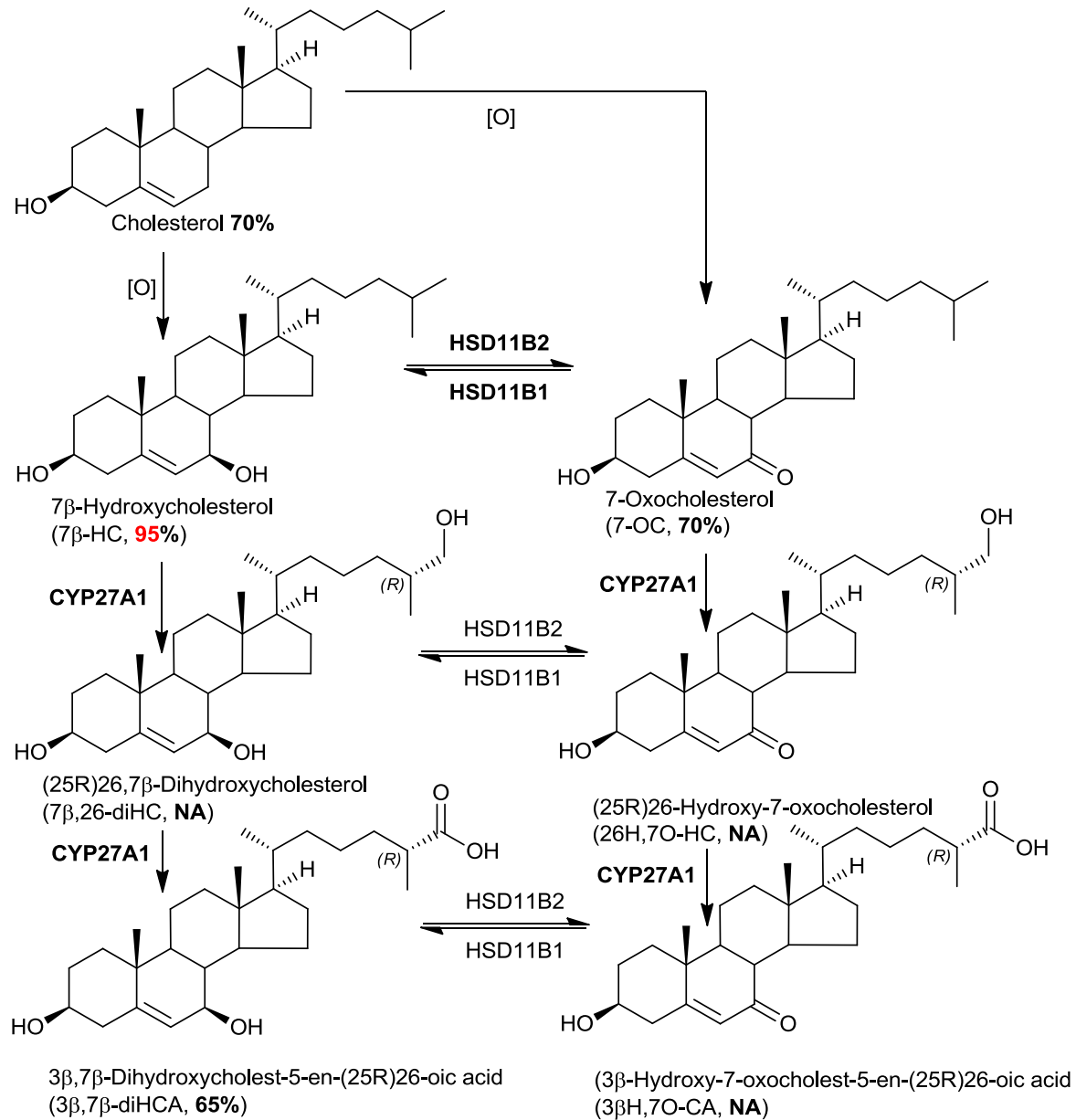


Figure S5

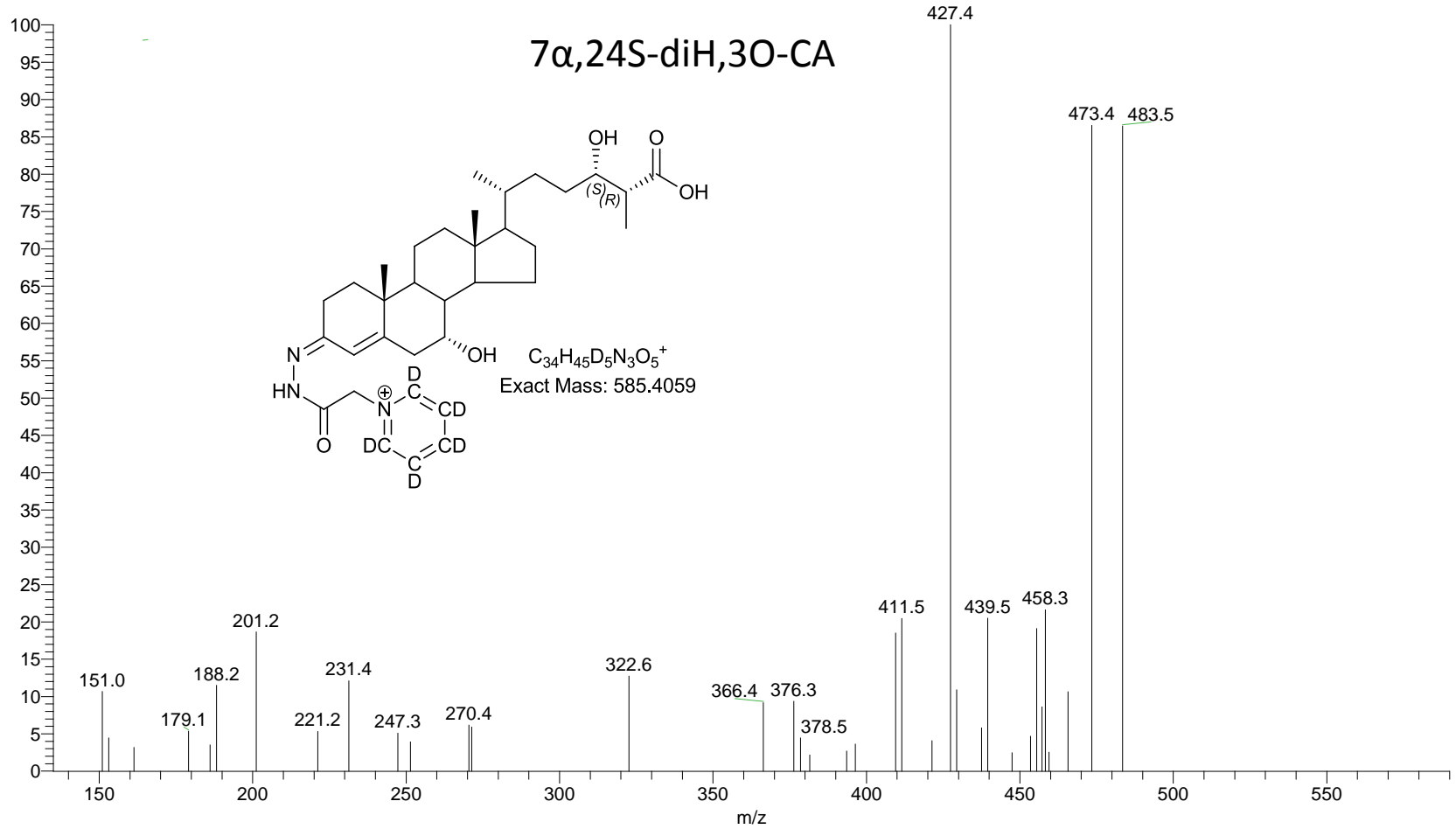


PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 13:20:38

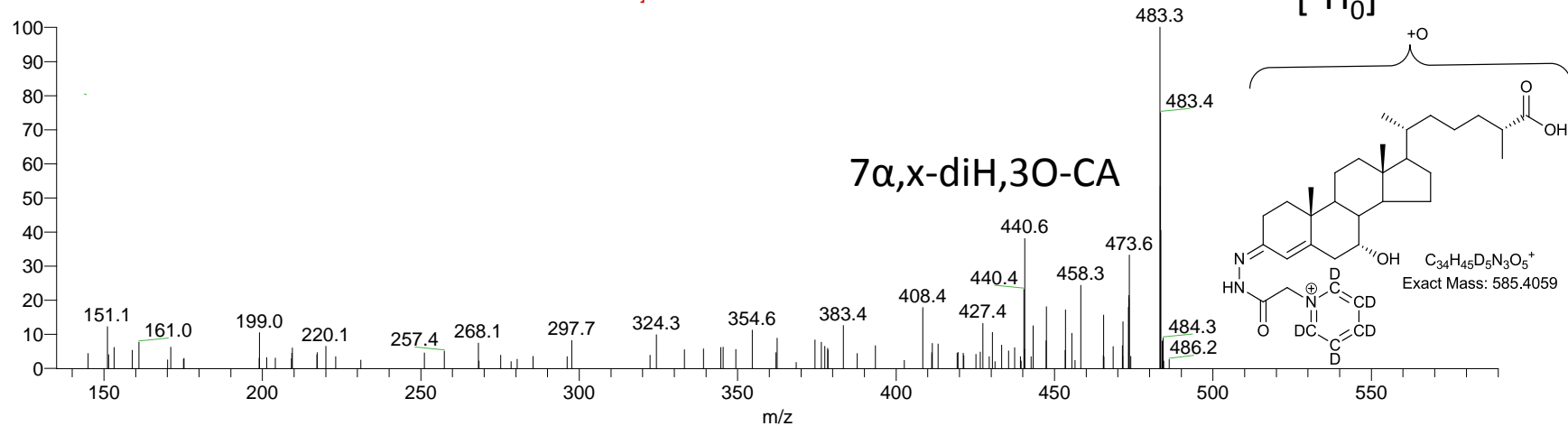
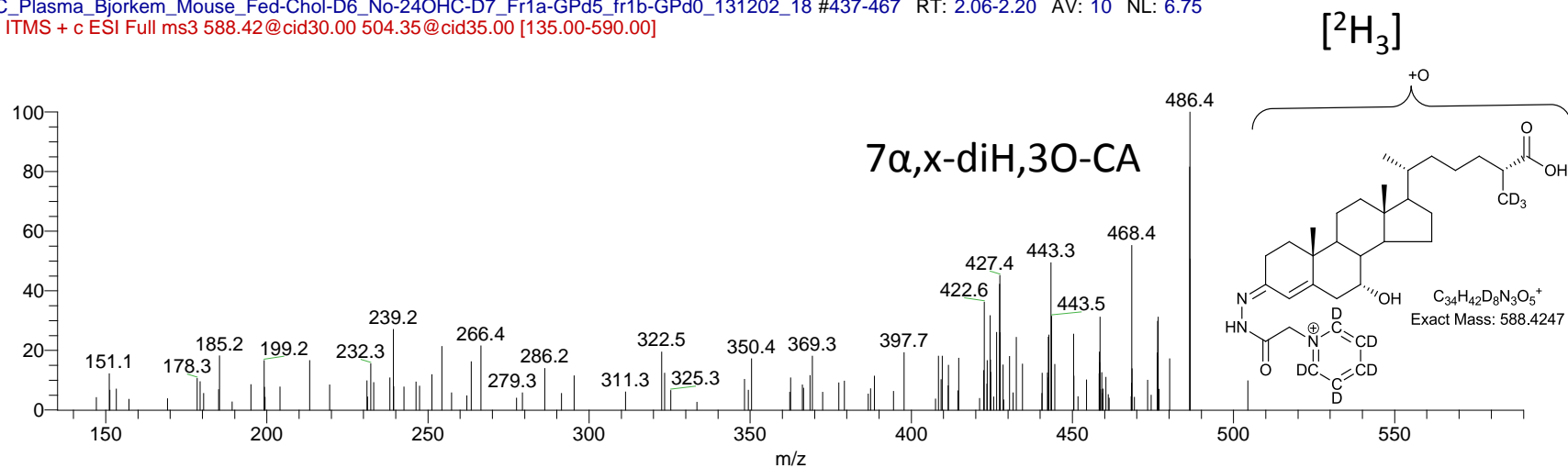
PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5
 F: ITMS + c ESI Full ms3 585.41@cid30.00 501.33@cid35.00 [135.00-5]

7 RT: 1.68 AV: 1 NL: 1.23E2



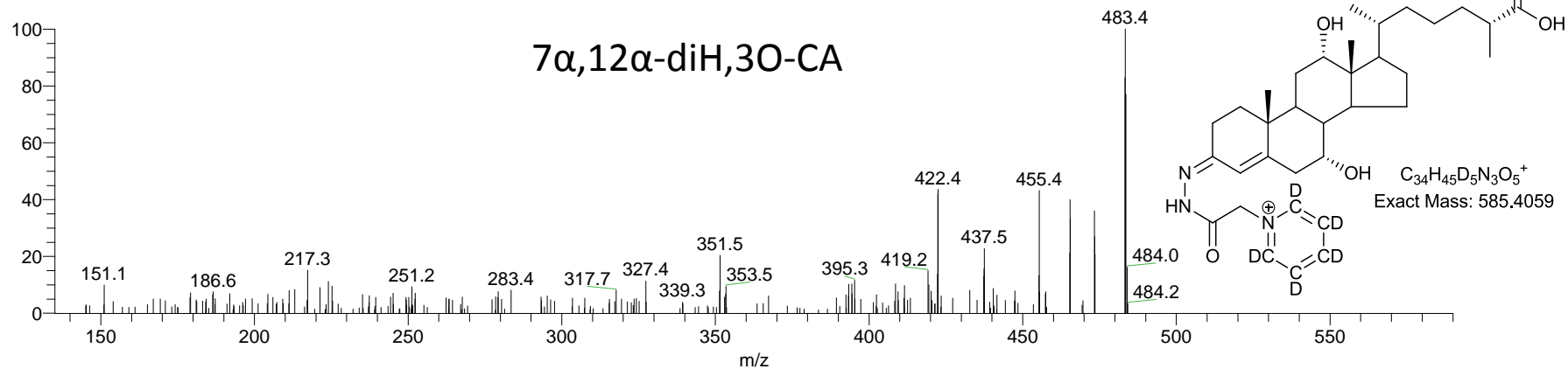
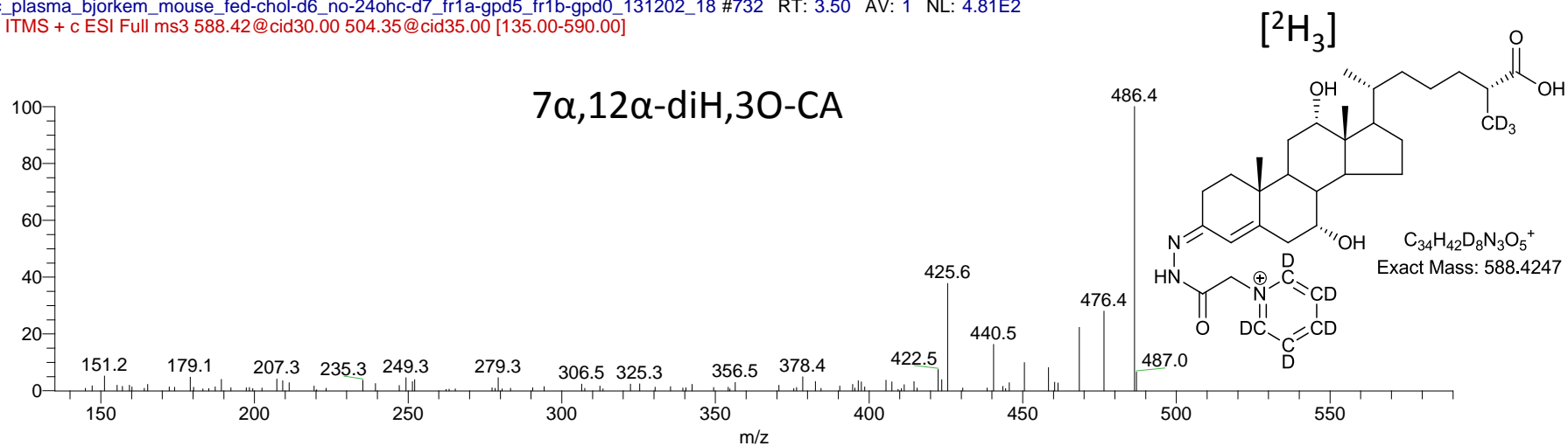
PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 13:20:38

PC_Plasma_Bjorkem_Mouse_Fed-Chol-I
F: ITMS + c ESI Full ms3 585.41 @cid30.(f5_fr1b-GPd0_131202_06 #453-468 RT: 2.13-2.20 AV: 6 NL: 1.78E1
-590.00]PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_18 #437-467 RT: 2.06-2.20 AV: 10 NL: 6.75
F: ITMS + c ESI Full ms3 588.42 @cid30.00 504.35 @cid35.00 [135.00-590.00]

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 13:20:38

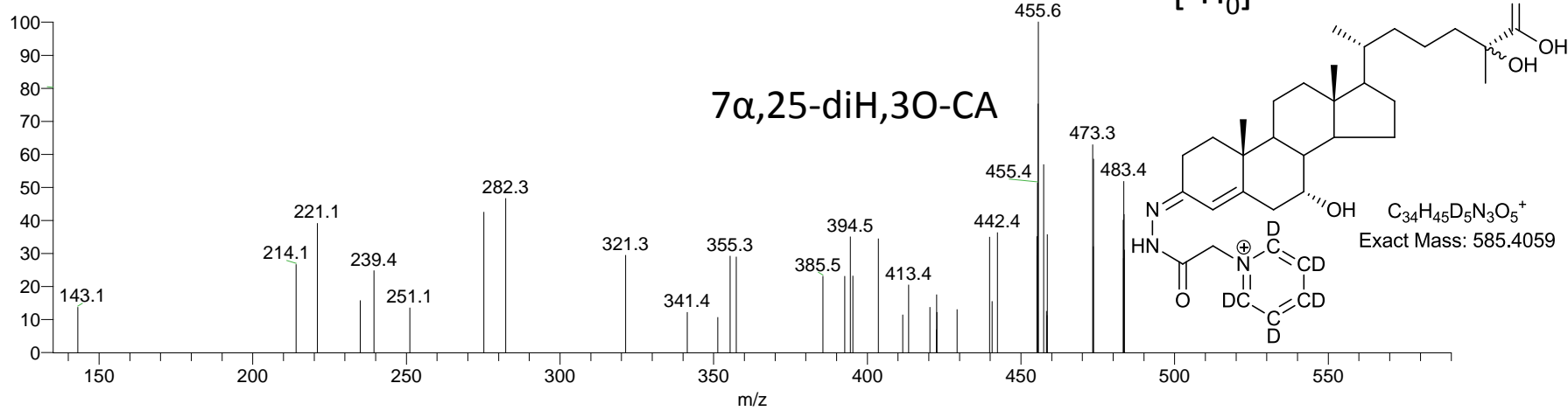
PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_
F: ITMS + c ESI Full ms3 585.41 @cid30.00 :fr1b-GPd0_131202_06 #733-758 RT: 3.49-3.60 AV: 8 NL: 2.19E1
[0.00]pc_plasma_bjorkem_mouse_fed-chole-d6_no-24ohc-d7_fr1a-gpd5_fr1b-gpd0_131202_18 #732 RT: 3.50 AV: 1 NL: 4.81E2
F: ITMS + c ESI Full ms3 588.42 @cid30.00 504.35 @cid35.00 [135.00-590.00]

PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_N...

12/02/13 13:20:38

PC_Plasma_Bjorkem_Mouse_Fed-Chol-I
F: ITMS + c ESI Full ms3 585.41 @cid30.(

f5_fr1b-GPd0_131202_06 #810-832 RT: 3.88-3.99 AV: 8 NL: 3.42
-590.00]



PC_Plasma_Bjorkem_Mouse_Fed-Chol-D6_No-24OHC-D7_Fr1a-GPd5_fr1b-GPd0_131202_18 #766-804 RT: 3.68-3.87 AV: 13 NL: 4.12
F: ITMS + c ESI Full ms3 588.42 @cid30.00 504.35 @cid35.00 [135.00-590.00]

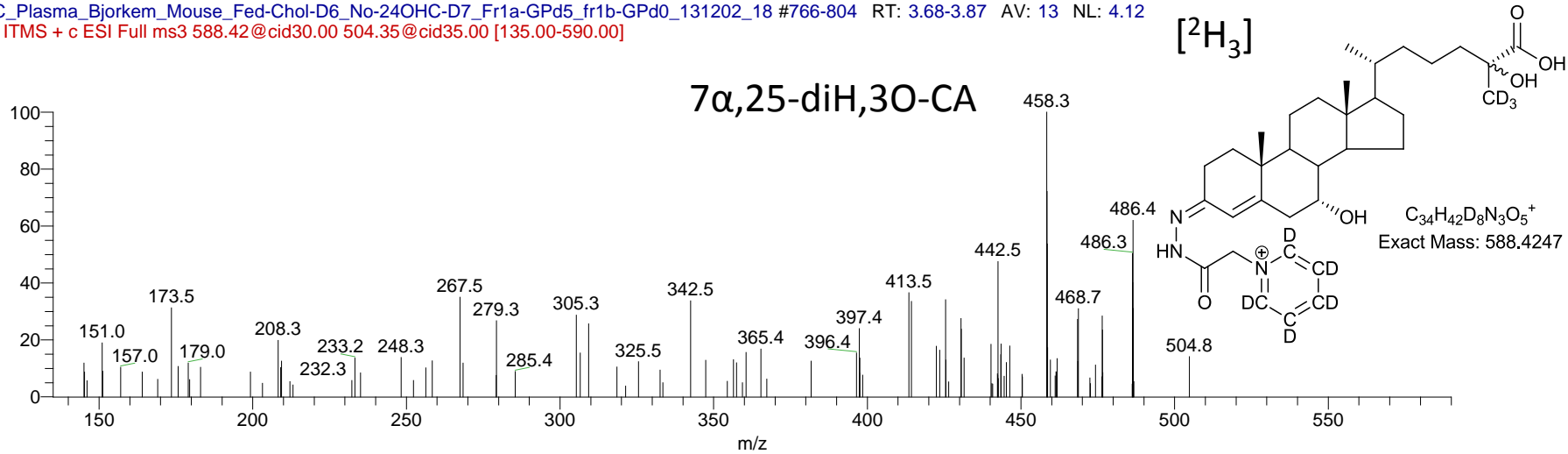
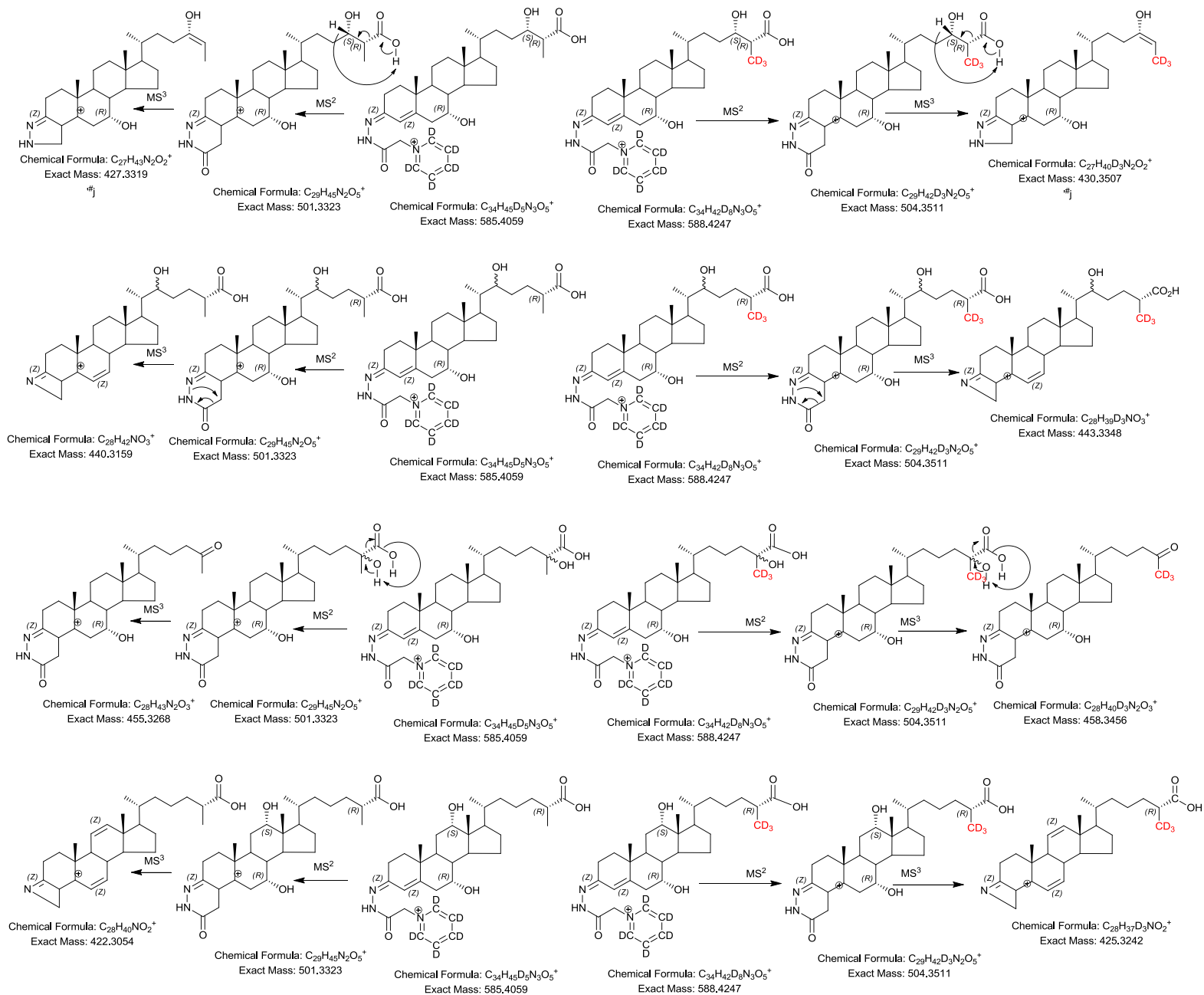


Figure S7

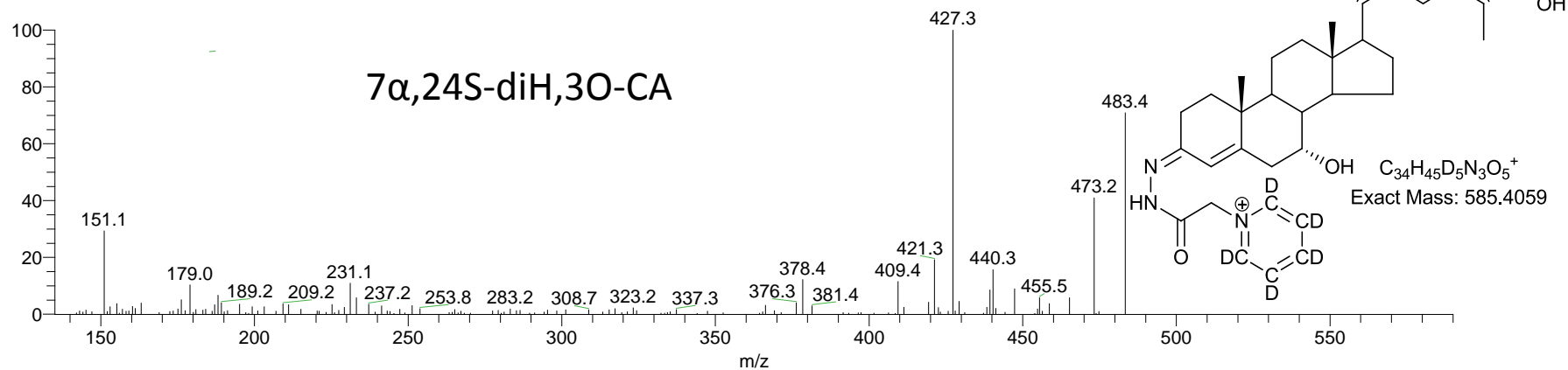


PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

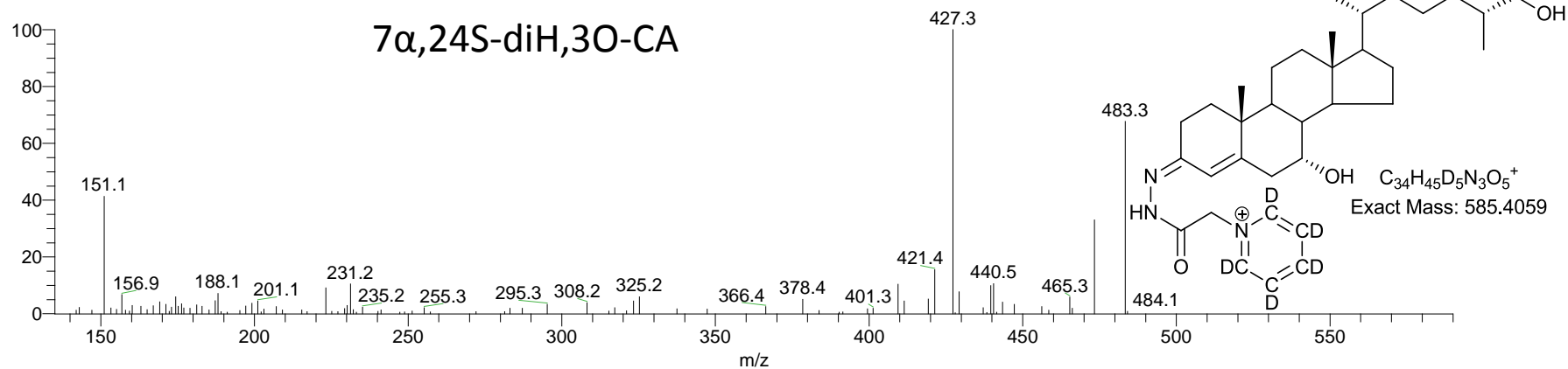
11/08/13 22:12:09

PC_Plasma_Mouse_Bjorkem_CYP46(16)_n
F: ITMS + c ESI Full ms3 585.41 @cid30.00 :

b-GPd0_131108_06 #315 RT: 1.65 AV: 1 NL: 9.83E2
[0.00]



PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr1b-GPd0_131108_06 #432 RT: 2.29 AV: 1 NL: 4.46E2
F: ITMS + c ESI Full ms3 585.41 @cid30.00 501.33 @cid35.00 [135.00-590.00]

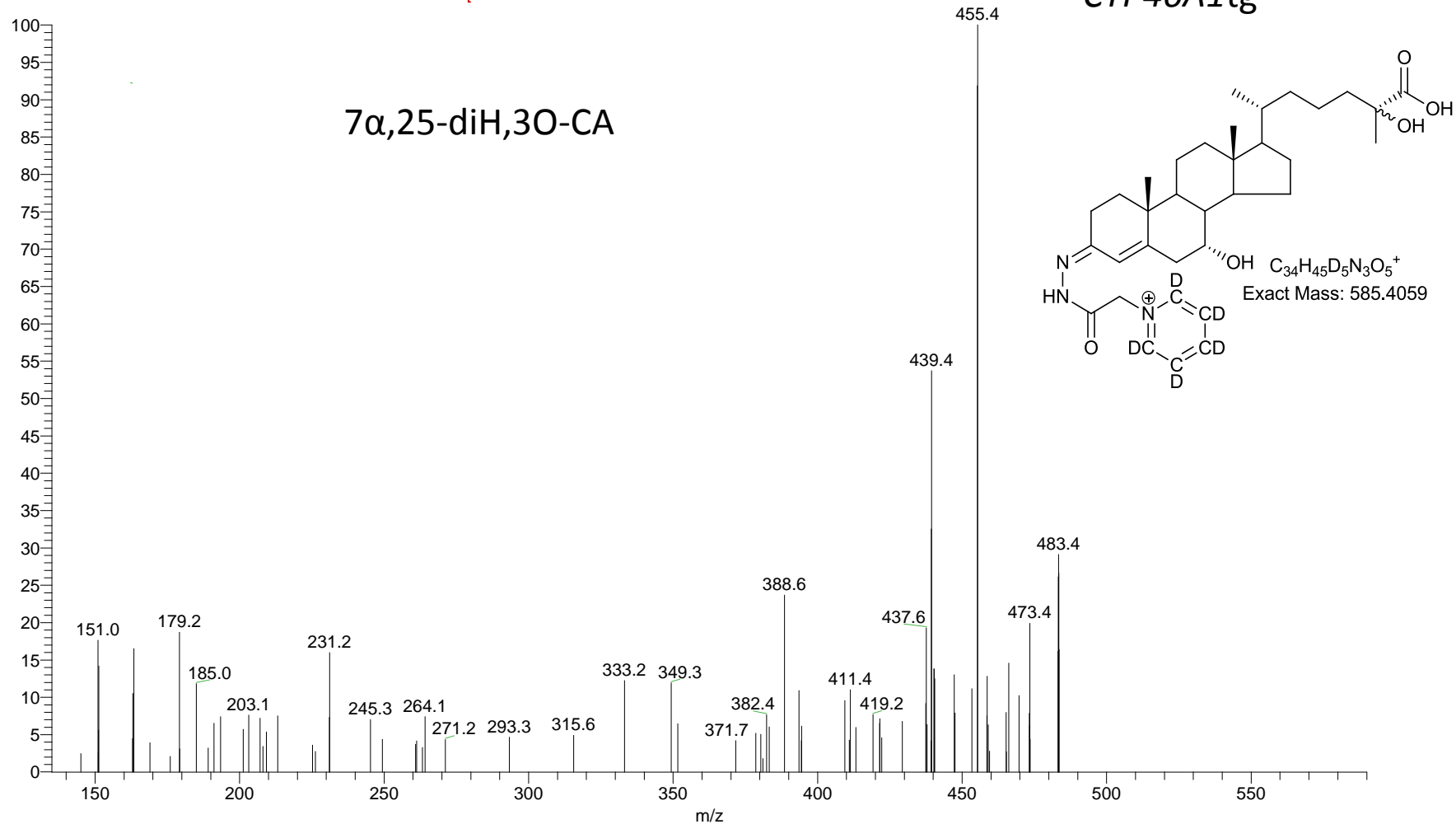


PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 22:12:09

PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_
F: ITMS + c ESI Full ms3 585.41@cid30.00 501.33@cid35.00 [135.00]

5-708 RT: 3.68-3.87 AV: 11 NL: 8.65

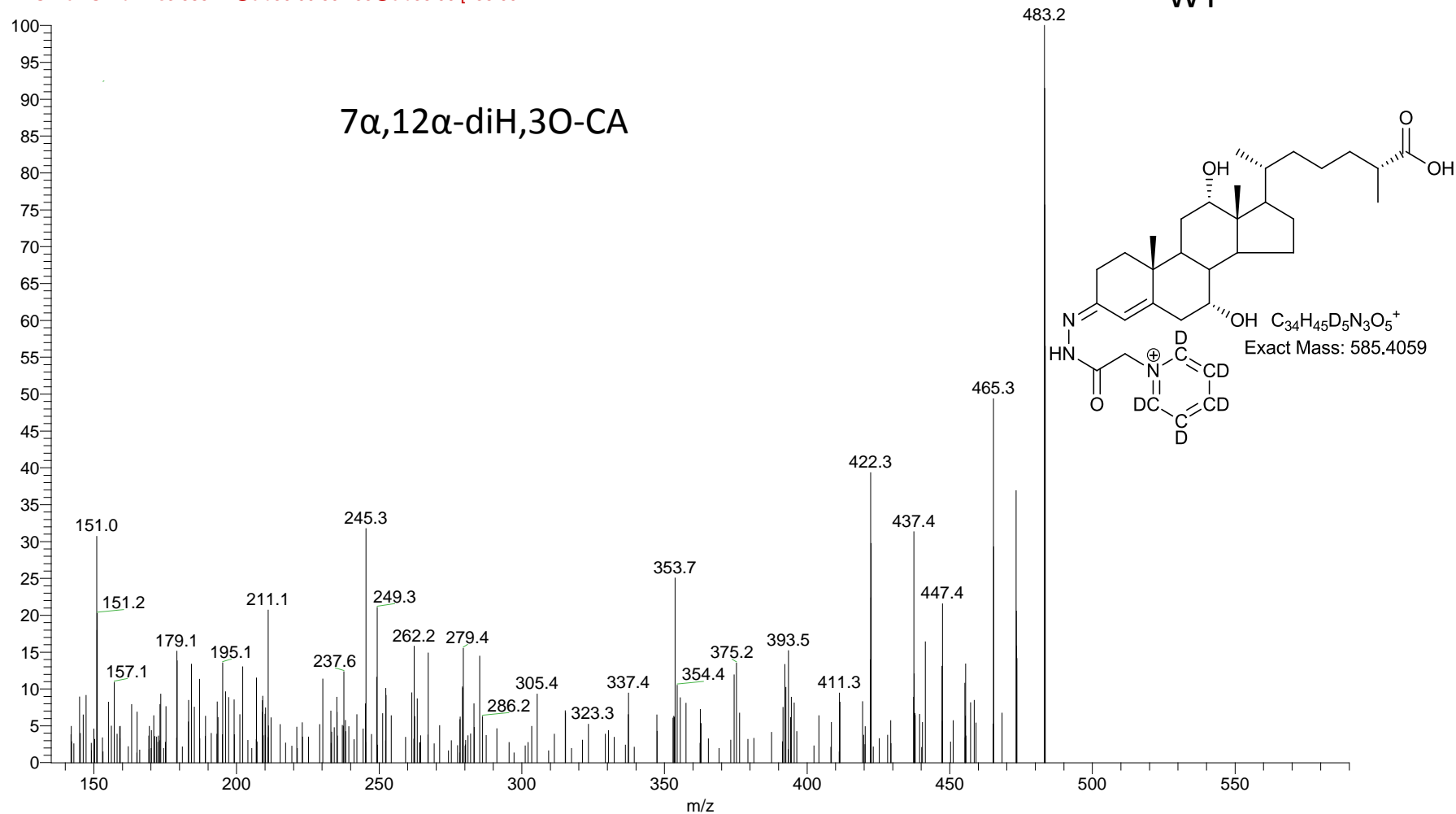


pc_plasma_mouse_jax_control-101045-2_...

11/09/13 10:38:29

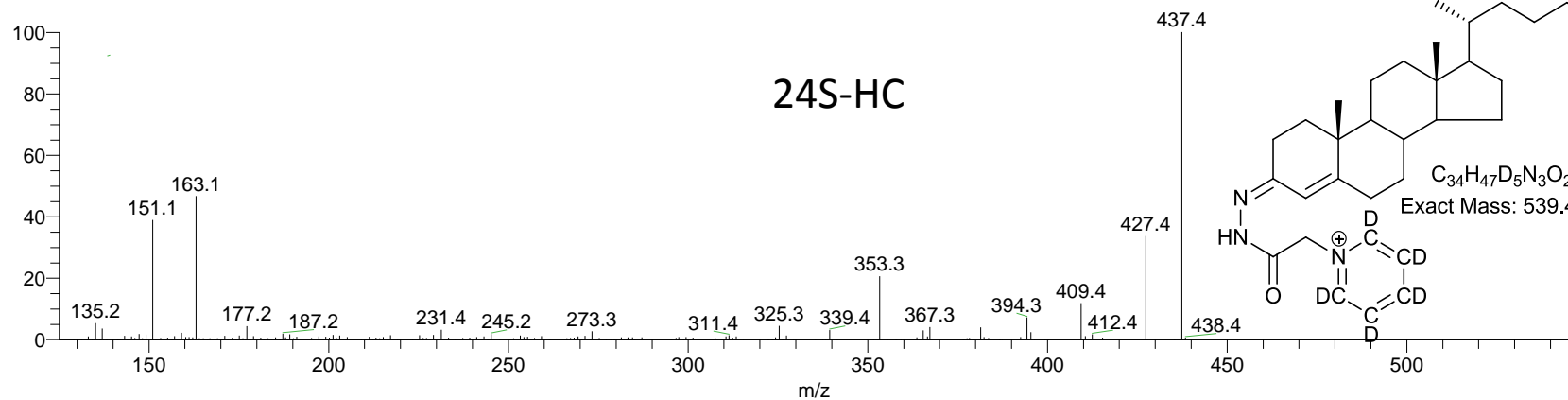
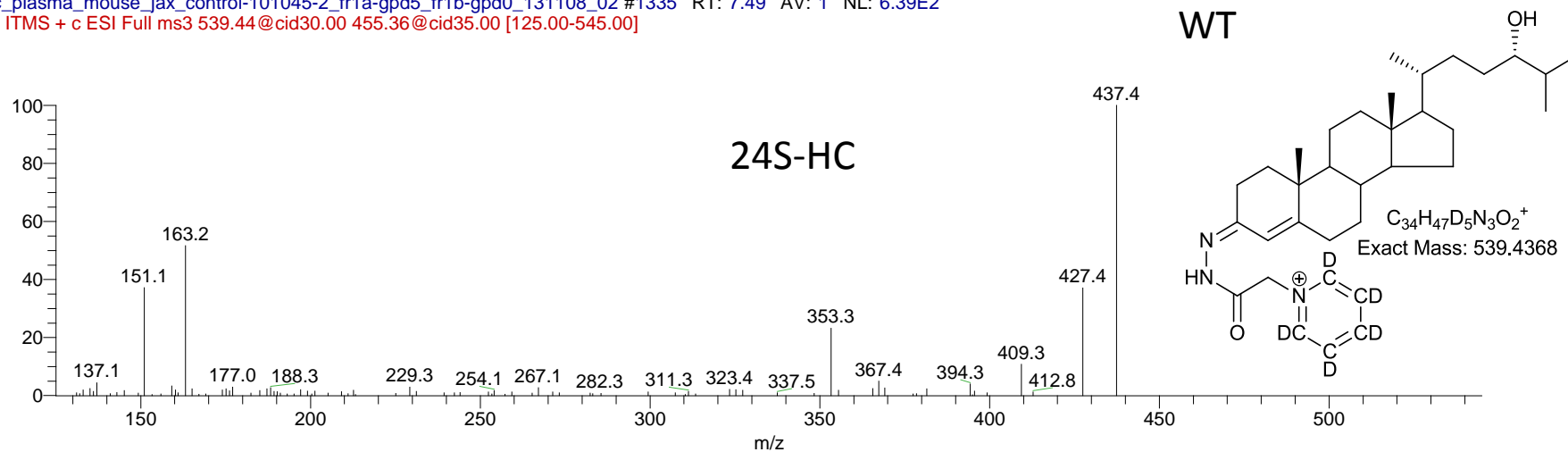
pc_plasma_mouse_jax_control-101045-2_fr1a-gpd5_fr1b-gpd0_1311
F: ITMS + c ESI Full ms3 585.41@cid30.00 501.33@cid35.00 [135.00]

1.54 AV: 8 NL: 1.79E1



PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 20:49:13

PC_Plasma_Mouse_Bjorkem_CYP46(16)_n
F: ITMS + c ESI Full ms3 539.44@cid30.00b-GPd0_131108_02 #1338 RT: 7.50 AV: 1 NL: 5.33E3
5.00]pc_plasma_mouse_jax_control-101045-2_fr1a-gpd5_fr1b-gpd0_131108_02 #1335 RT: 7.49 AV: 1 NL: 6.39E2
F: ITMS + c ESI Full ms3 539.44@cid30.00 455.36@cid35.00 [125.00-545.00]

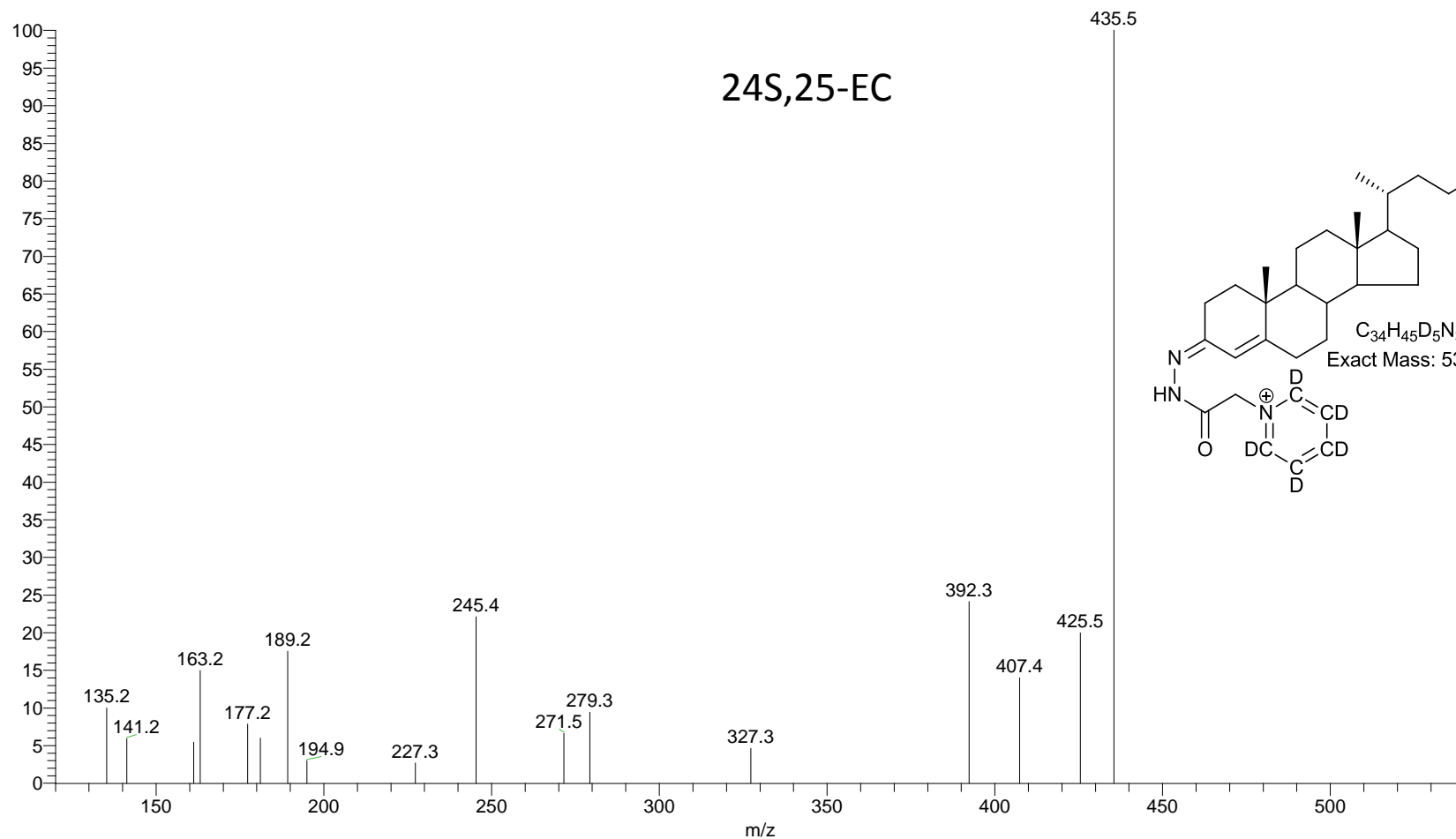
PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 20:28:29

PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr
F: ITMS + c ESI Full ms3 537.42@cid30.00 453.35@cid35.00 [120.00-5.

RT: 7.01 AV: 1 NL: 9.47E1

CYP46A1tg



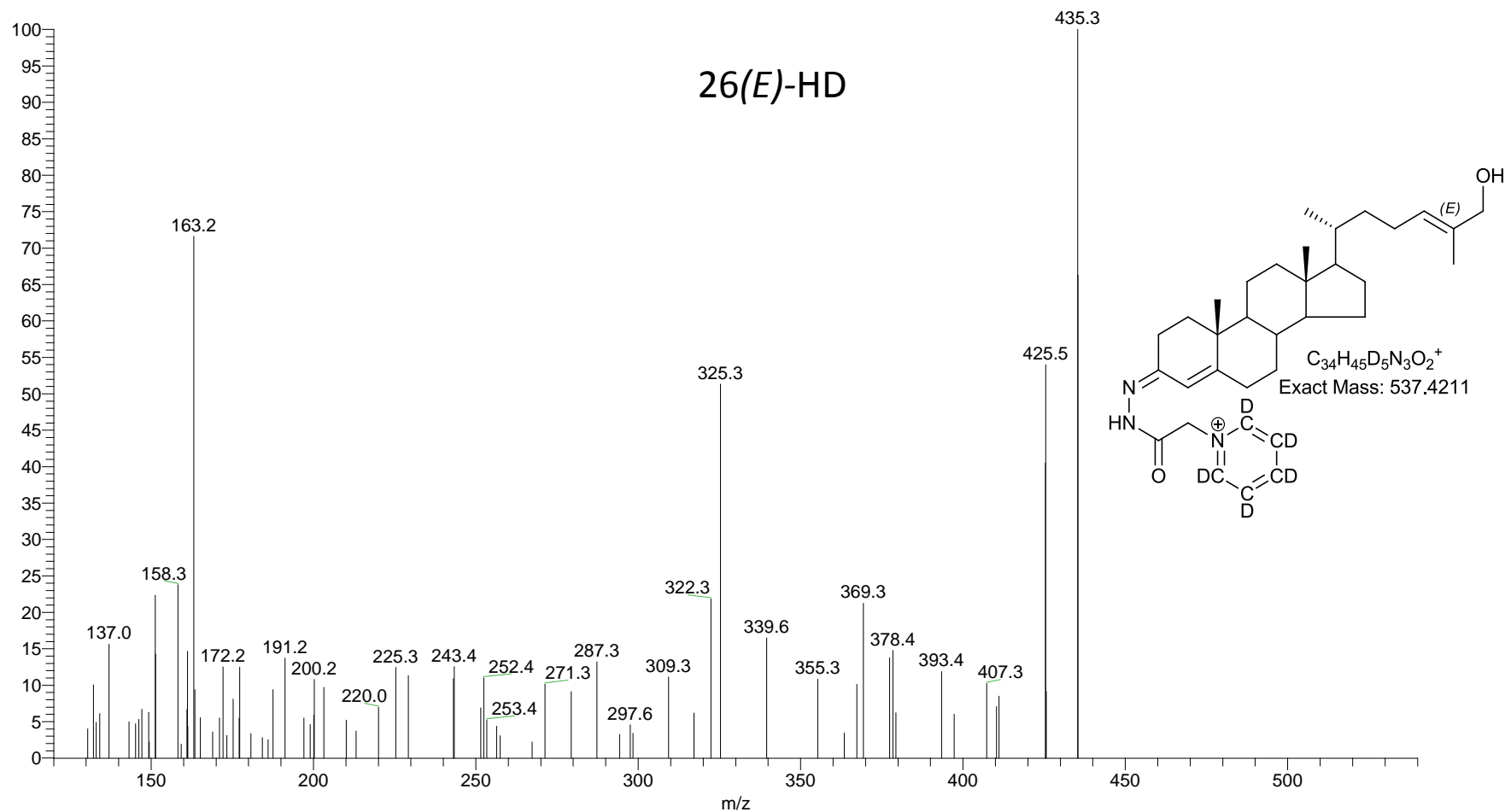
PC_Plasma_Mouse_Bjorkem_CYP46(16)_no...

11/08/13 20:28:29

PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr
F: ITMS + c ESI Full ms3 537.42@cid30.00 453.35@cid35.00 [120.00-5

1365 RT: 7.62-7.65 AV: 3 NL: 2.43E1

CYP46A1tg



PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 20:28:29

PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr
F: ITMS + c ESI Full ms3 537.42@cid30.00 453.35@cid35.00 [120.00-5]

RT: 7.91 AV: 1 NL: 2.26E2

CYP46A1tg

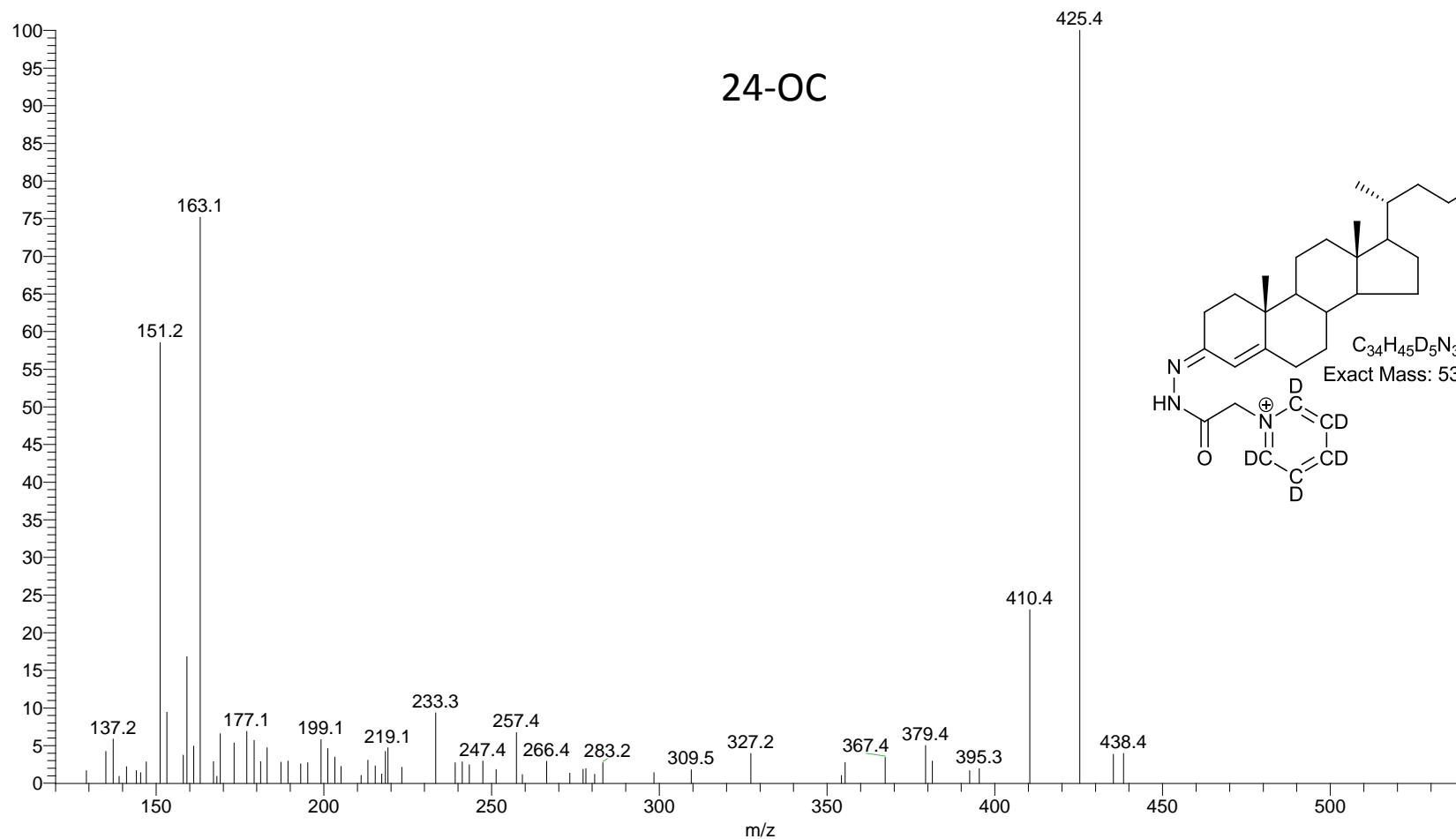
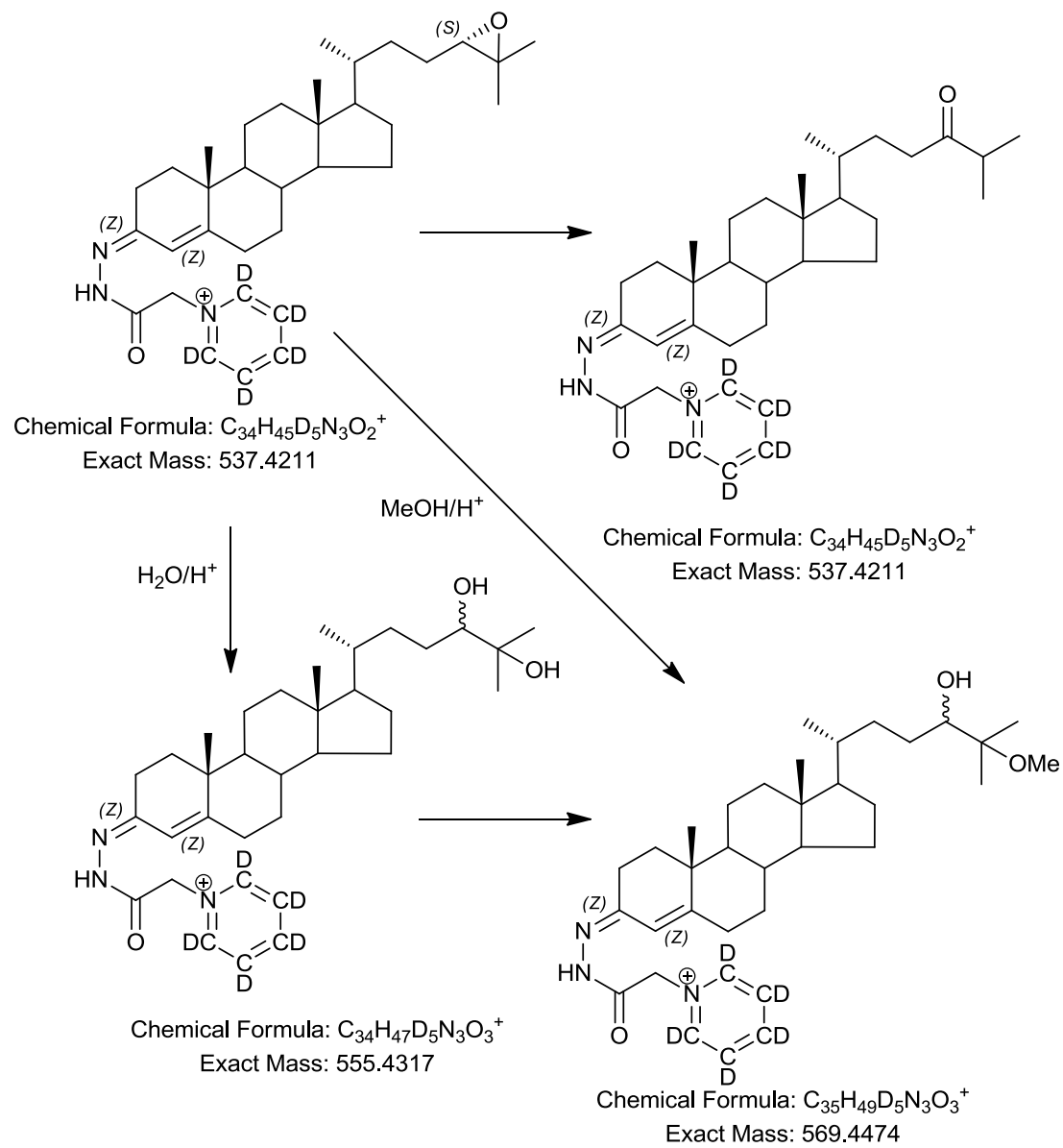


Figure S10



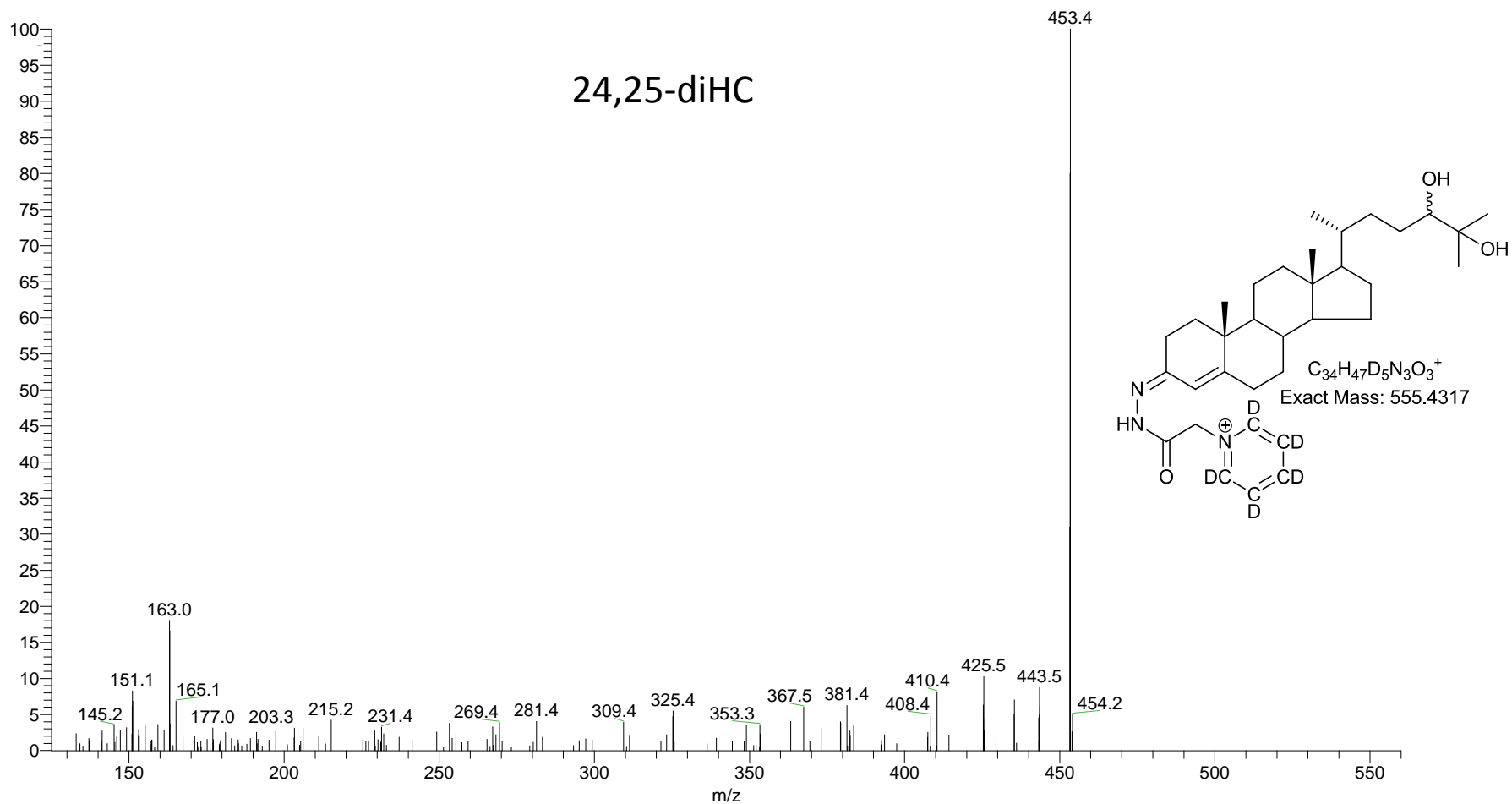
PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 21:30:41

PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr
F: ITMS + c ESI Full ms3 555.43@cid30.00 471.36@cid35.00 [125.00-5]

45 RT: 3.29-3.44 AV: 9 NL: 4.59E1

CYP46A1tg



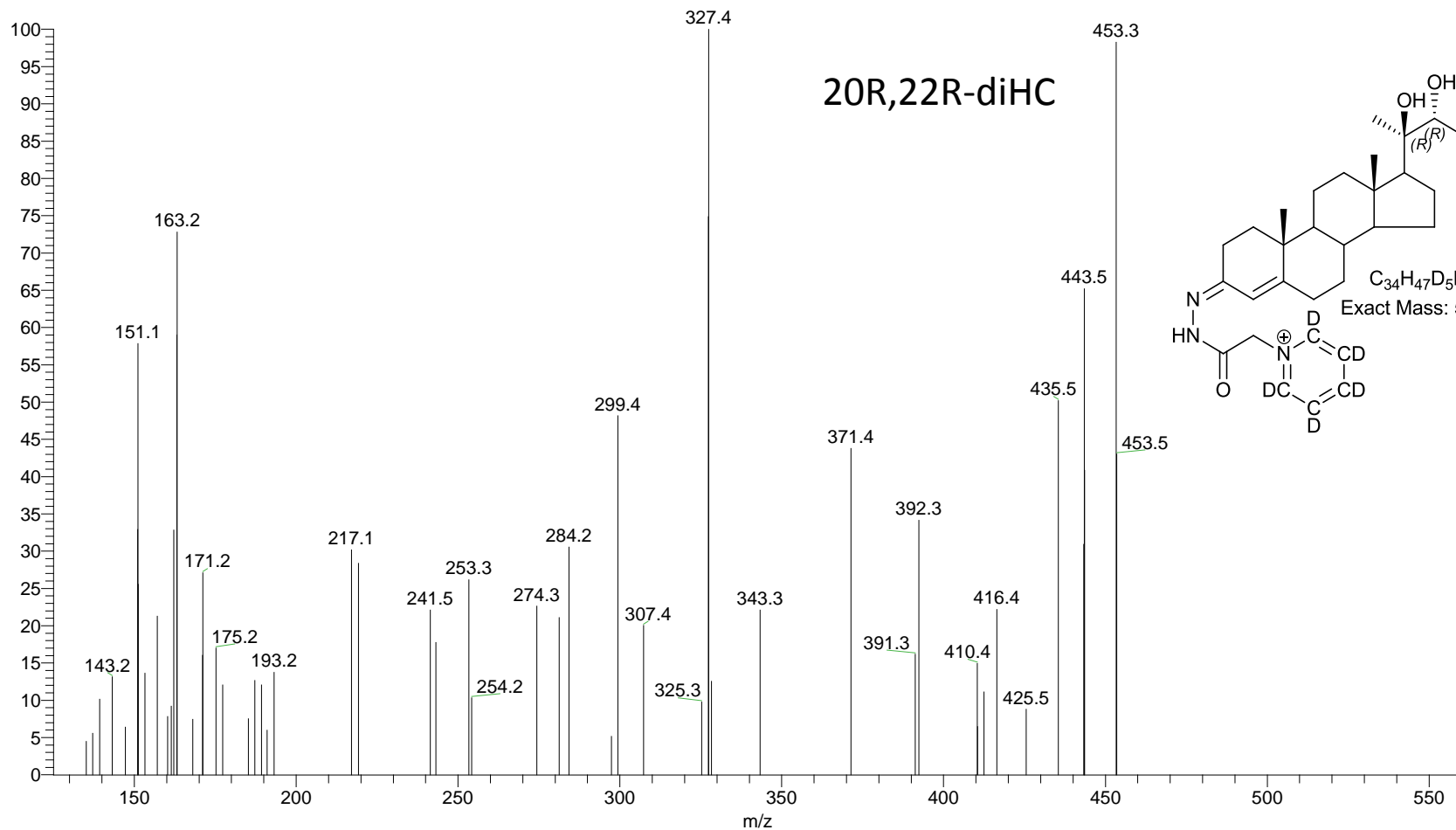
pc_plasma_mouse_jax_control-101045-2_...

11/09/13 09:57:01

pc_plasma_mouse_jax_control-101045-2_fr1a-gpd5_fr1b-gpd0_131108
 F: ITMS + c ESI Full ms3 555.43@cid30.00 471.36@cid35.00 [125.00-56

I AV: 4 NL: 9.66

WT

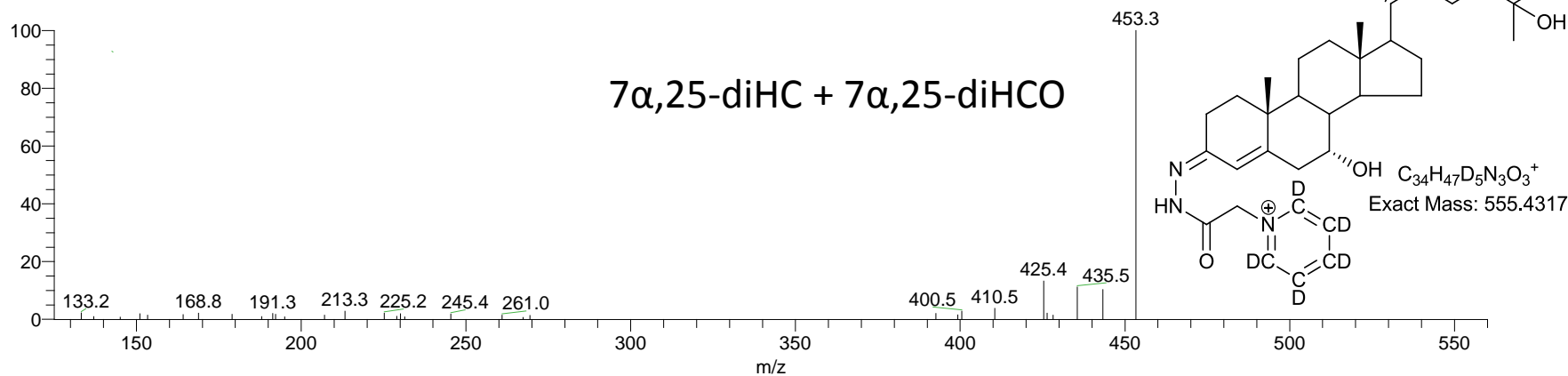


PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

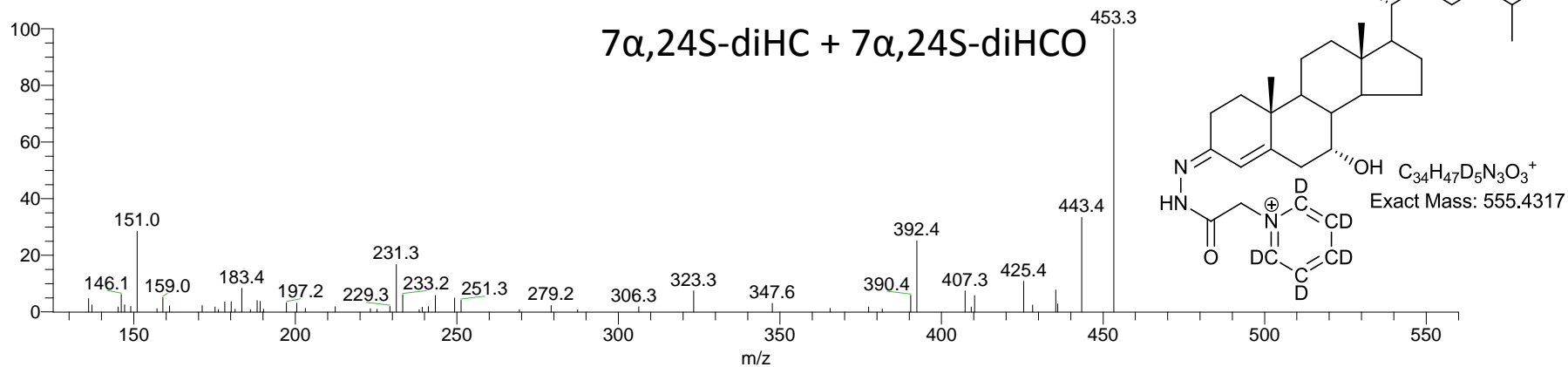
11/08/13 21:30:41

PC_Plasma_Mouse_Bjorkem_CYP46(16)_n
F: ITMS + c ESI Full ms3 555.43@cid30.00

b-GPd0_131108_04 #948 RT: 5.32 AV: 1 NL: 3.98E2
[0.00]



PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr1b-GPd0_131108_04 #966 RT: 5.42 AV: 1 NL: 3.13E2
F: ITMS + c ESI Full ms3 555.43@cid30.00 471.36@cid35.00 [125.00-560.00]



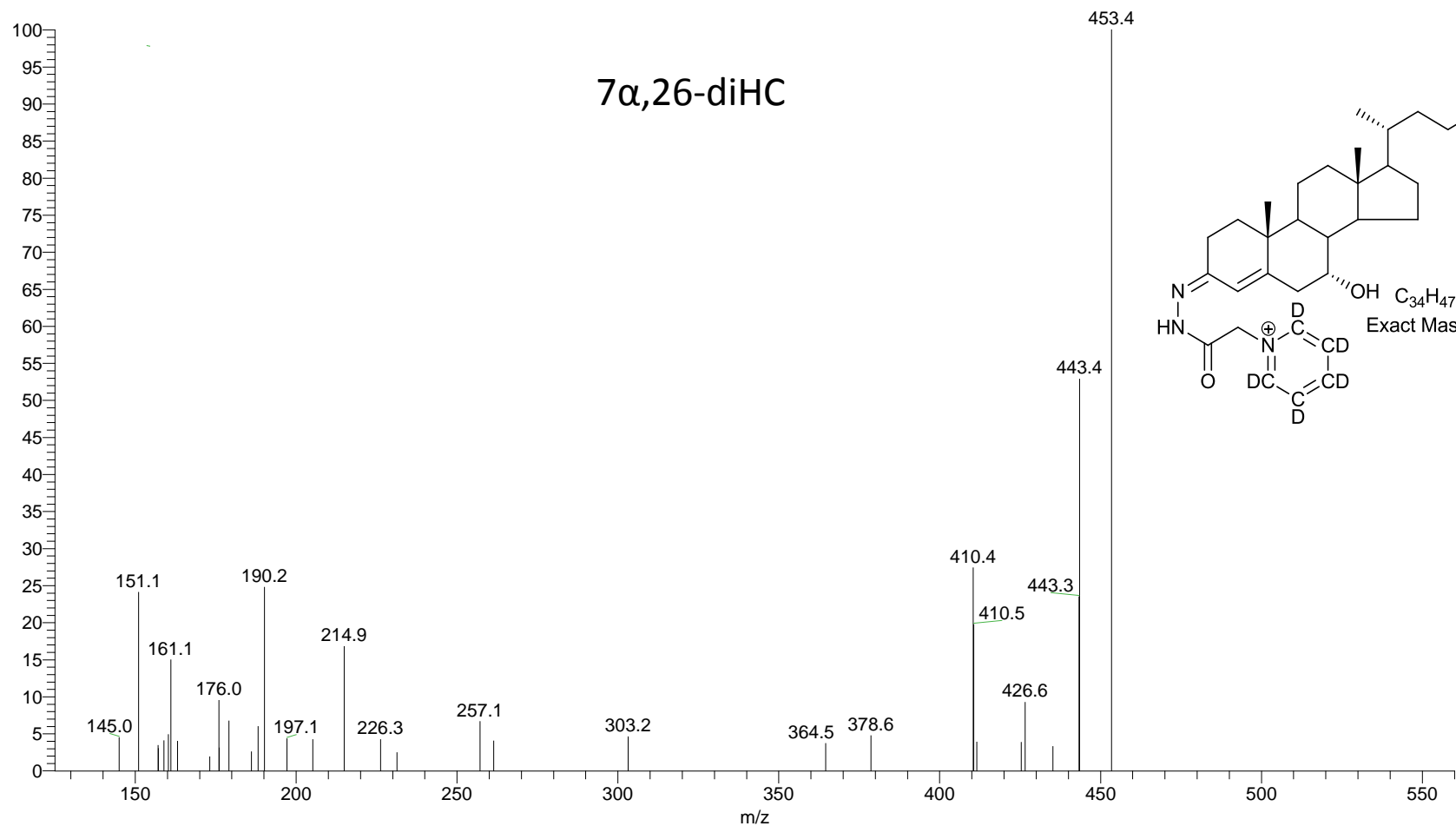
pc_plasma_mouse_jax_control-101045-2_...

11/09/13 09:57:01

pc_plasma_mouse_jax_control-101045-2_fr1a-gpd5_fr1b-gpd0_131108_...
F: ITMS + c ESI Full ms3 555.43@cid30.00 471.36@cid35.00 [125.00-56

.93 AV: 2 NL: 4.07E1

WT



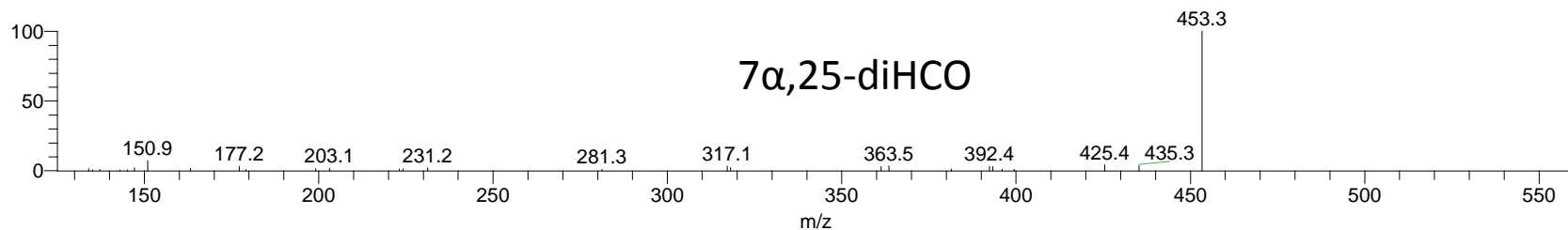
PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-...

11/08/13 21:30:41

PC_Plasma_Mouse_Bjorkem_CYP
F: ITMS + c ESI Full ms3 550.40@

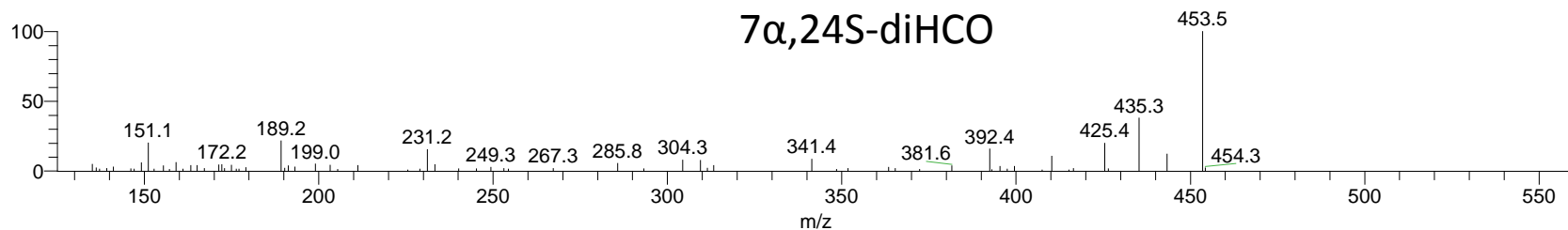
3Pd5_Fr1b-GPd0_131108_04 #947 RT: 5.32 AV: 1 NL: 3.97E2
[125.00-560.00]

CYP46A1tg



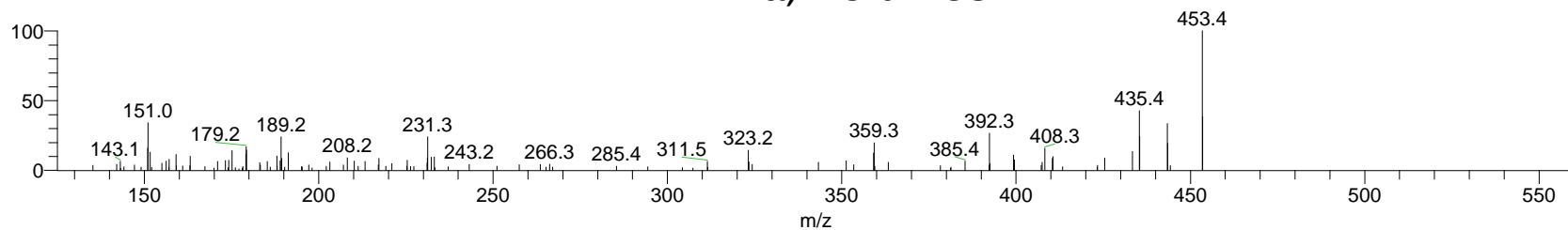
PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr1b-GPd0_131108_04 #968 RT: 5.43 AV: 1 NL: 2.79E2
F: ITMS + c ESI Full ms3 550.40@cid30.00 471.36@cid35.00 [125.00-560.00]

CYP46A1tg



PC_Plasma_Mouse_Bjorkem_CYP46(16)_no-hydrolysis_Fr1a-GPd5_Fr1b-GPd0_131108_04 #1163-1173 RT: 6.54-6.59 AV: 4 NL: 4.17E1
F: ITMS + c ESI Full ms3 550.40@cid30.00 471.36@cid35.00 [125.00-560.00]

CYP46A1tg



pc_plasma_mouse_jax_control-101045-2_...

11/09/13 09:57:01

pc_plasma_mouse_jax_control-101045-2_fr1a-gpd5_fr1b-gpd0_131108
F: ITMS + c ESI Full ms3 550.40@cid30.00 471.36@cid35.00 [125.00-5]

.98 AV: 6 NL: 1.82E1

WT

