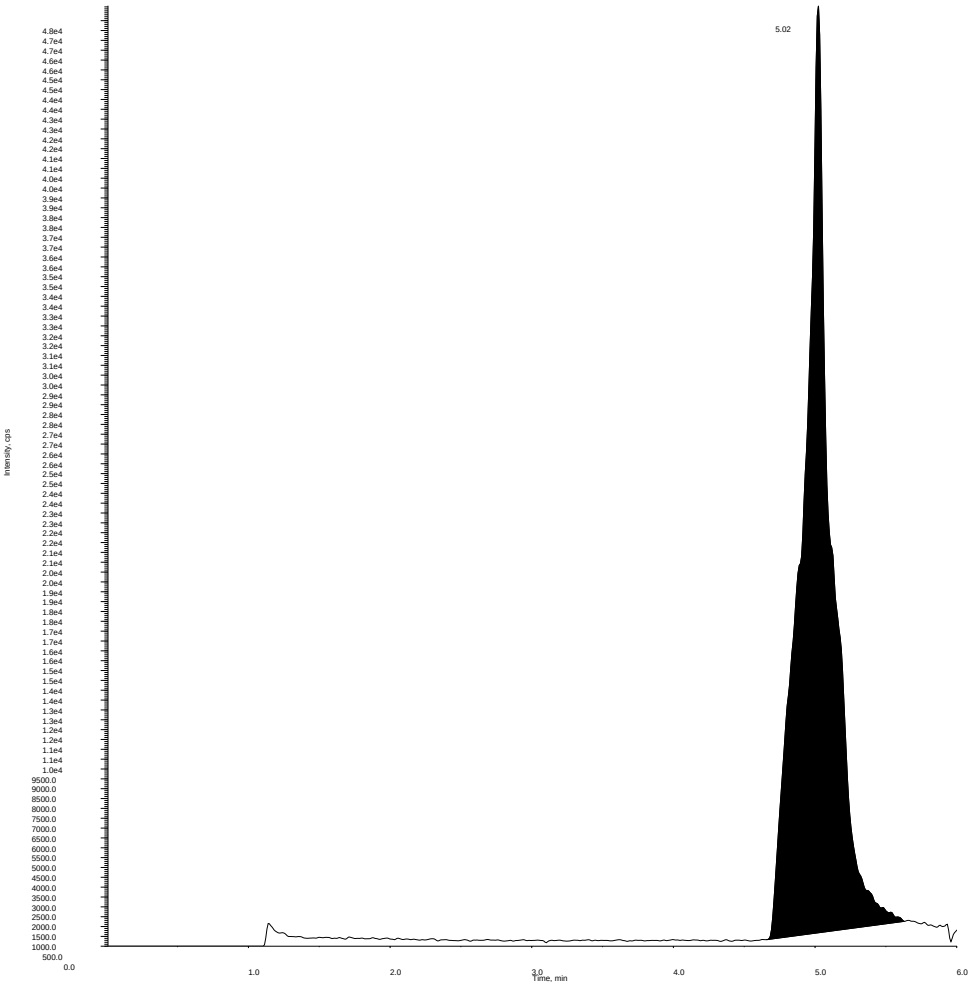
Figure S1. Effect of TFA on retention of isoniazid. LC condition: A= 10mM NH4FA, B=MeCN, flow rate, 0.4mL/min, Isocratic mode. Column, Hypersil Silica (50x2.1 mm, 3um, Thermo-Fisher).

Sample Name: "STD5000" Sample ID: "" File: "0116 08 Cal.wiff"
Peak Name: "INH" Mass(es): "138.000/121.000 Da"
Comment: "" Annotation: ""
Sample Index: 25
Sample Type: Standard
Concentration: 5000. ng/mL
Calculated Conc: 5030. ng/mL
Acq. Date: 1/16/2008
Acq. Time: 8:25:41 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 1
Noise Threshold: 10.01 cps
Area Threshold: 50.04 cps
Num. Smooths: 2
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 3.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 5.02 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 5.02 min
Area: 0.65e+006 counts
Height: 4.71e+004 cps
Start Time: 4.66 min
End Time: 5.63 min



Sample Name: "STD5000" Sample ID: "" File: "011608 noTFA.wiff"
Peak Name: "INH" Mass(es): "138.000/121.000 Da"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 1/17/2008
Acq. Time: 2:37:54 AM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 4
Noise Threshold: 150.00 cps
Area Threshold: 20.10 cps
Num. Smooths: 0
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00
RT Window: 30.0 sec
Expected RT: 2.10 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 2.10 min
Area: 4.50e+006 counts
Height: 2.39e+005 cps
Start Time: 1.67 min
End Time: 3.32 min

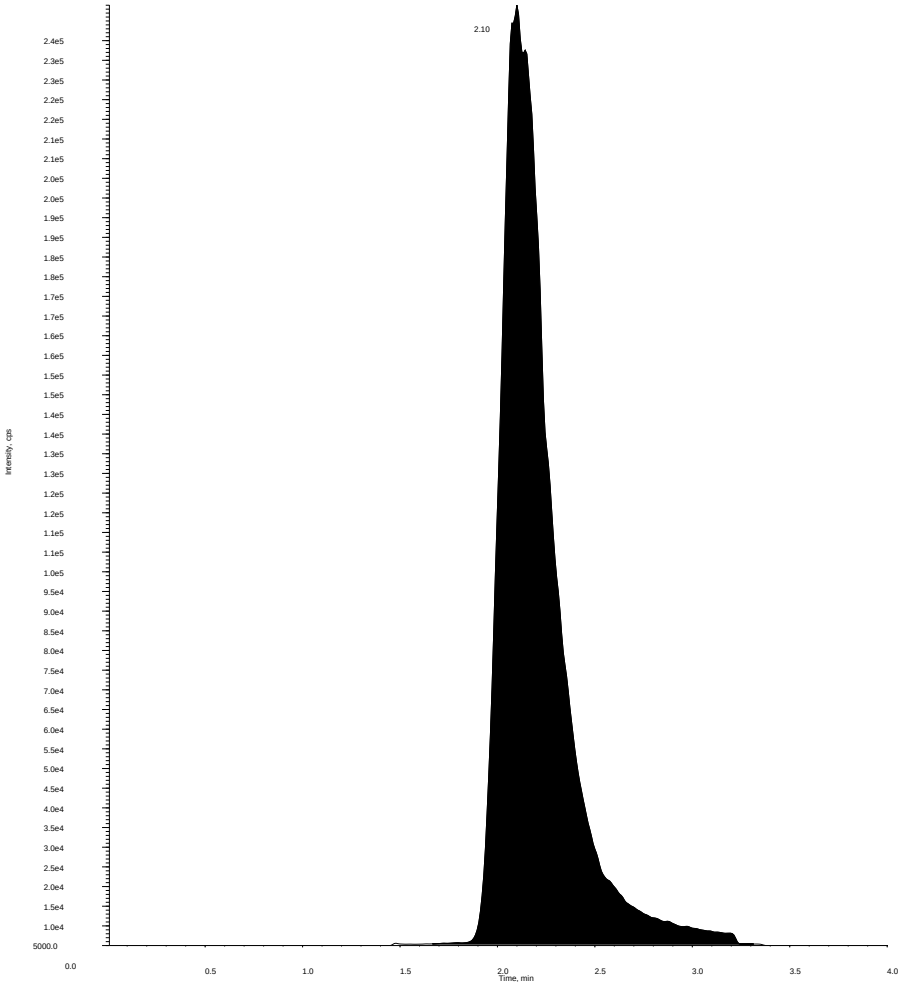


Figure S2. Optimization of TCA concentration. LC condition: A=0.14% TFA, 10mM NH4FA, B= MeCN. Flow rate, 0.6 mL/min, gradient: B% (time), 3 (0min)--3 (0.1min)--30 (2.6 min)--90(2.61min)--90(3.00min)--3(3.01min)--3(3.5min).