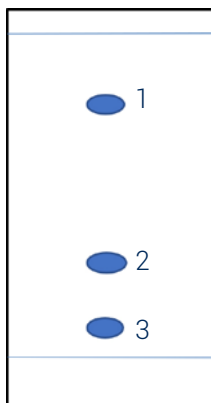


## 1. TLC method development



Mobile phase:  
70% Heptane / Ethyl acetate 30%

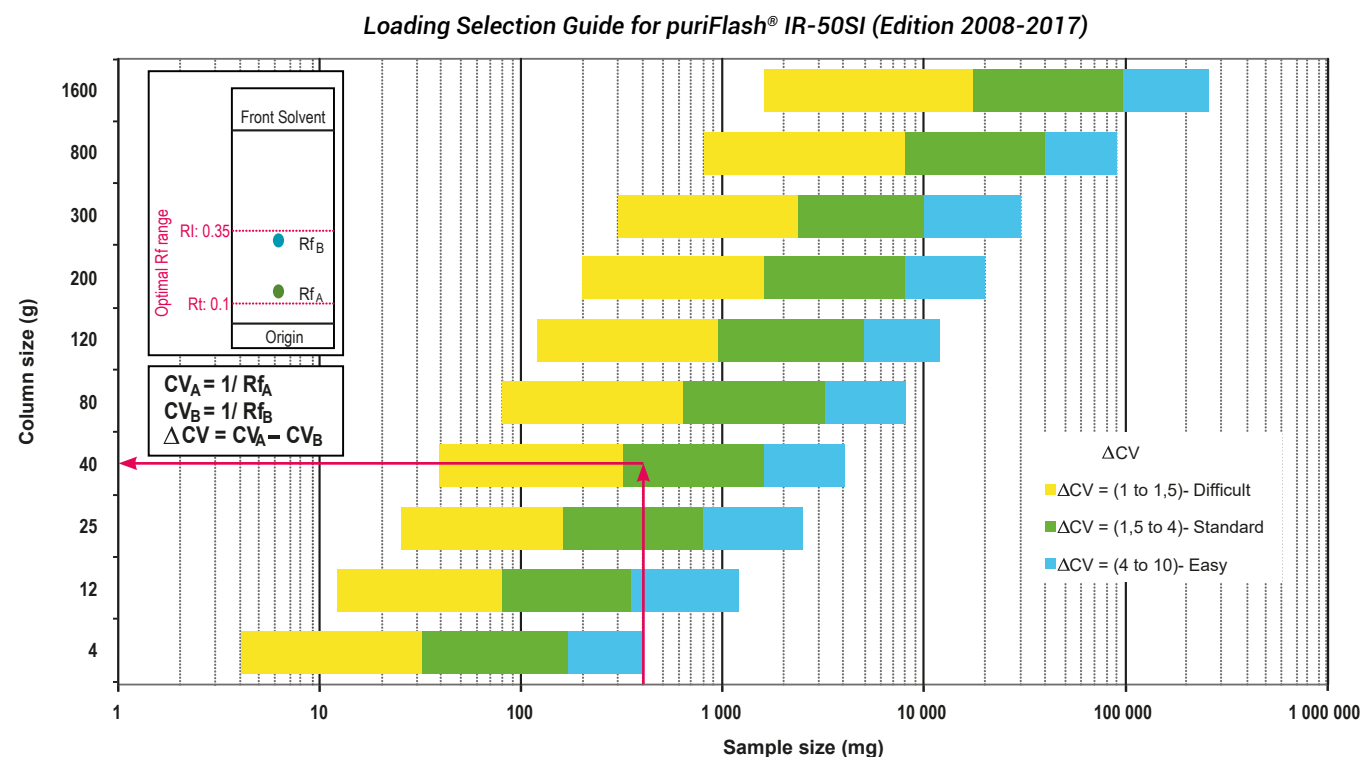
Compound	Rf	CV
1	0.79	1.3
$\Delta CV_{2-1} = 1.5$		
2	0.36	2.8
$\Delta CV_{3-2} = 4.2$		
3	0.14	7

## 2. Choice of the column according to the $\Delta CV$ & crude sample mass

Crude sample: 400mg

Column: PF-15SIHP-F0040

Loading capacity: 1%



Customer has chosen to use a PF-15SIHP-F0040 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0040 column.

### 3. Flash conditions

Device: puriFlash® XS 420 Plus (or now puriFlash® XS 520 Plus)

Solvents: A: Heptane

B: Ethyl acetate

Column: PF-15SIHP-F0040

Flow rate: 26mL/min

Injection mode: Liquid injection

Crude sample: 400mg

Detection: UV 254nm

Pressure: 5bar

Elution conditions:

CV	A (%)	B (%)
0	94	6
1	94	6
11	60	40
13	60	40

#### SCALE-UP

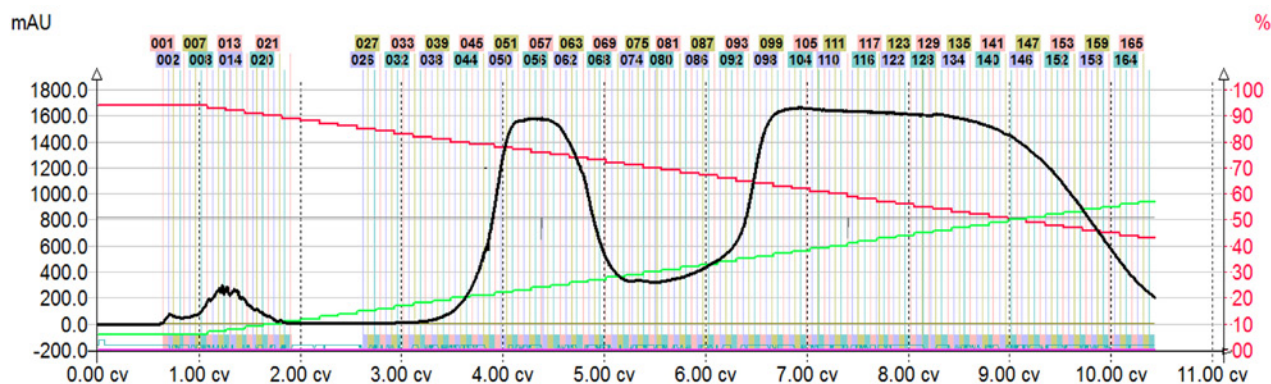
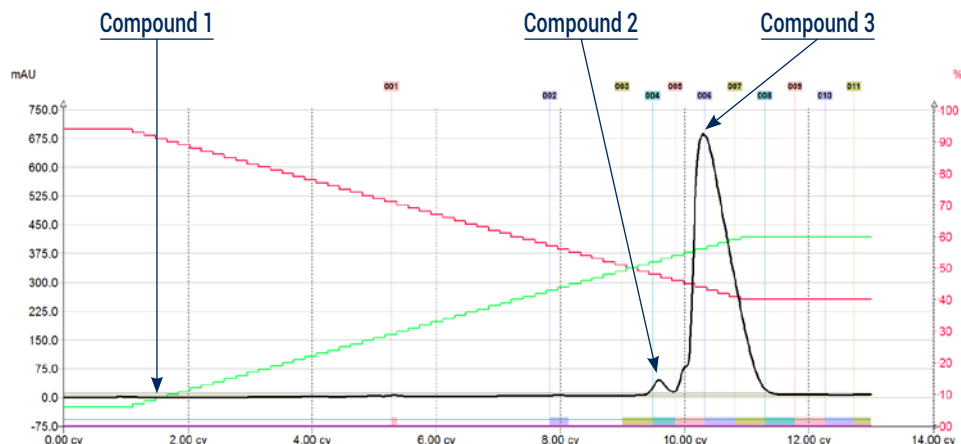
Then, the customer wanted to load more sample on a bigger column:

Column: IR-50SI-F0330

Flow rate: 126mL/min

Crude sample: 48g

Loading: 16%



### To achieve this purification:

#### You will need

- puriFlash® XS 520 Plus  
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0040  
[Discover it](#) [Add to card](#)
- puriFlash® column IR-50SI-F0330  
[Discover it](#) [Add to card](#)

#### We highly recommend

- Magic box Flash B2JCJ0 [Add to card](#)
- Tube holding claw 18mm AYHED0 [Add to card](#)
- Tubes 18x150mm AW3842 [Add to card](#)

#### Download our App

"TLC to Flash & Prep Chromatography" to make your TLC developments easier and faster.

