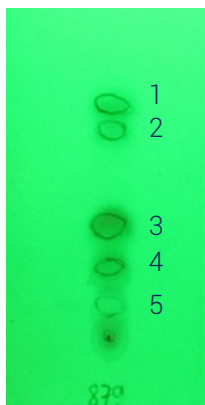


1. TLC method development



Mobile phase:
50% HTBE / Heptane 50%

Compounds of interest: All

Compound	Rf	CV
1	0.68	1.47
2	0.6	1.67
3	0.33	3.03
4	0.2	5.00
5	0.09	11.11

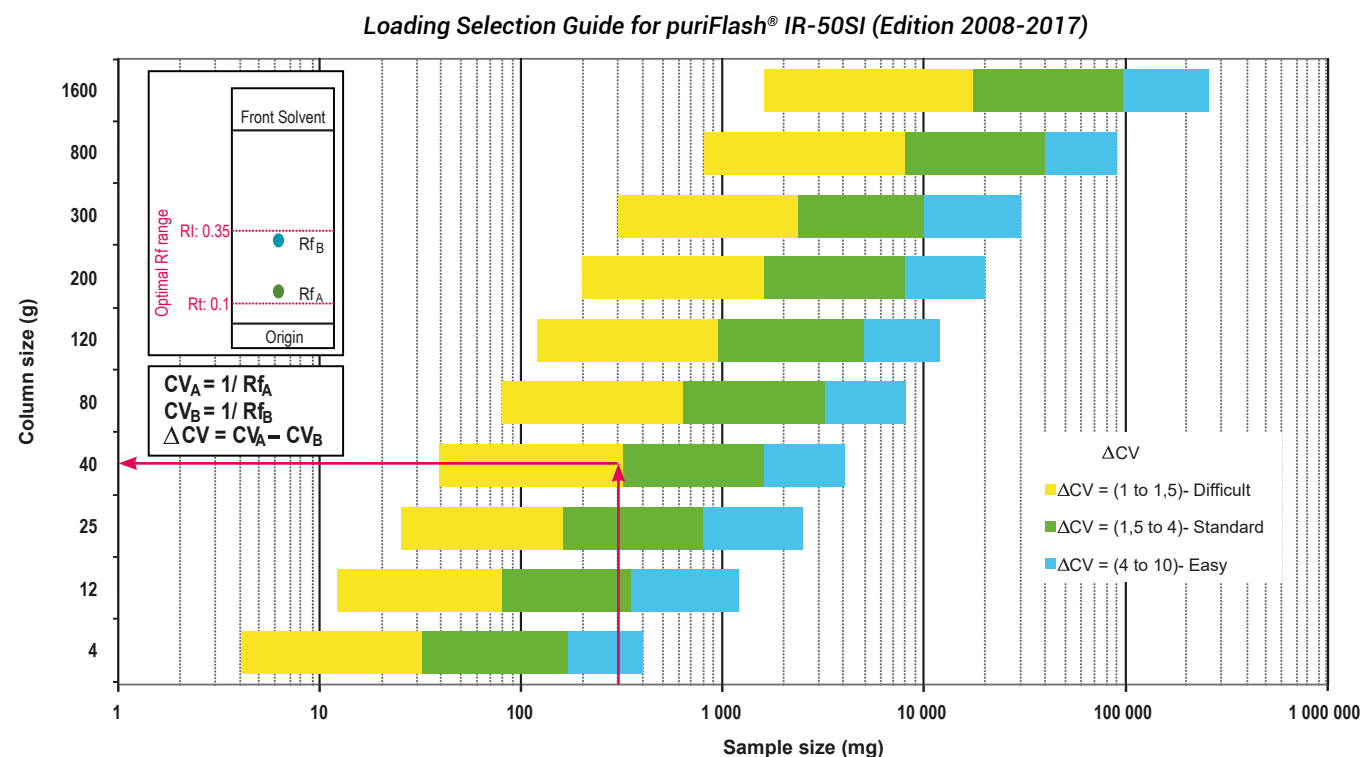
Difficult compounds to separate
are 4 and 5 $\Delta CV=0.20$

2. Choice of the column according to the ΔCV & crude sample mass

Crude sample: 300mg

Column: PF-15SIHP-F0040

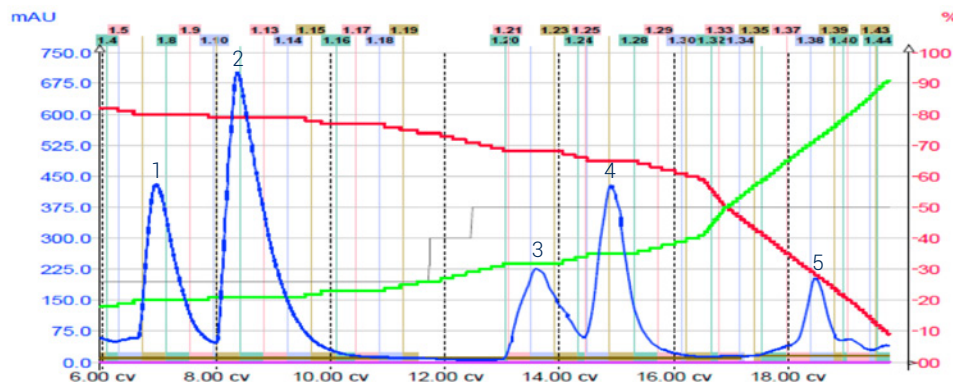
Loading capacity: 0.75%



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

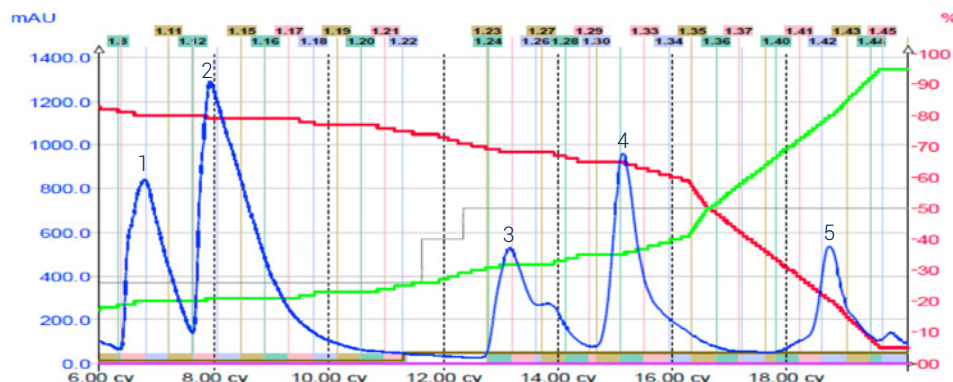
Device: puriFlash® XS 420 Plus (or now puriFlash® XS 520 Plus)
Solvents: A: Heptane
 B: HTBE
Column: PF-15SIHP-F0040
Flow rate: 26mL/min
Injection mode: Solid deposit with celite (Dry-load F0004)
Crude sample: 300mg
Detection: UV 254nm
Mode: Automatic Gradient Optimization
Elution conditions:
Method based on 16 CV up to TLC condition (Chromatogram 1)



Chromatogram 1

4. Overload

Device: puriFlash® XS 420 Plus (or now puriFlash® XS 520 Plus)
Solvents: A: Heptane
 B: HTBE
Column: PF-15SIHP-F0040
Flow rate: 26mL/min
Injection mode: Solid deposit with celite (Dry-load F0004)
Crude sample: 700mg
Detection: UV 254nm
Mode: Automatic Gradient Optimization
Elution conditions:
Method based on 16 CV up to TLC condition (Chromatogram 2)



Chromatogram 2



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® Dry-load PF-DLE-F0004
[Discover it](#) [Add to card](#)

We highly recommend

- Ballasting for 1/8" tubing - 5 units
DZ7360 [Add to card](#)
- Extractor with 2 extraction tubes + kit
1R8570 [Add to card](#)
- Tubes 18x180mm
1Q5350 [Add to card](#)

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