

1. TLC method development



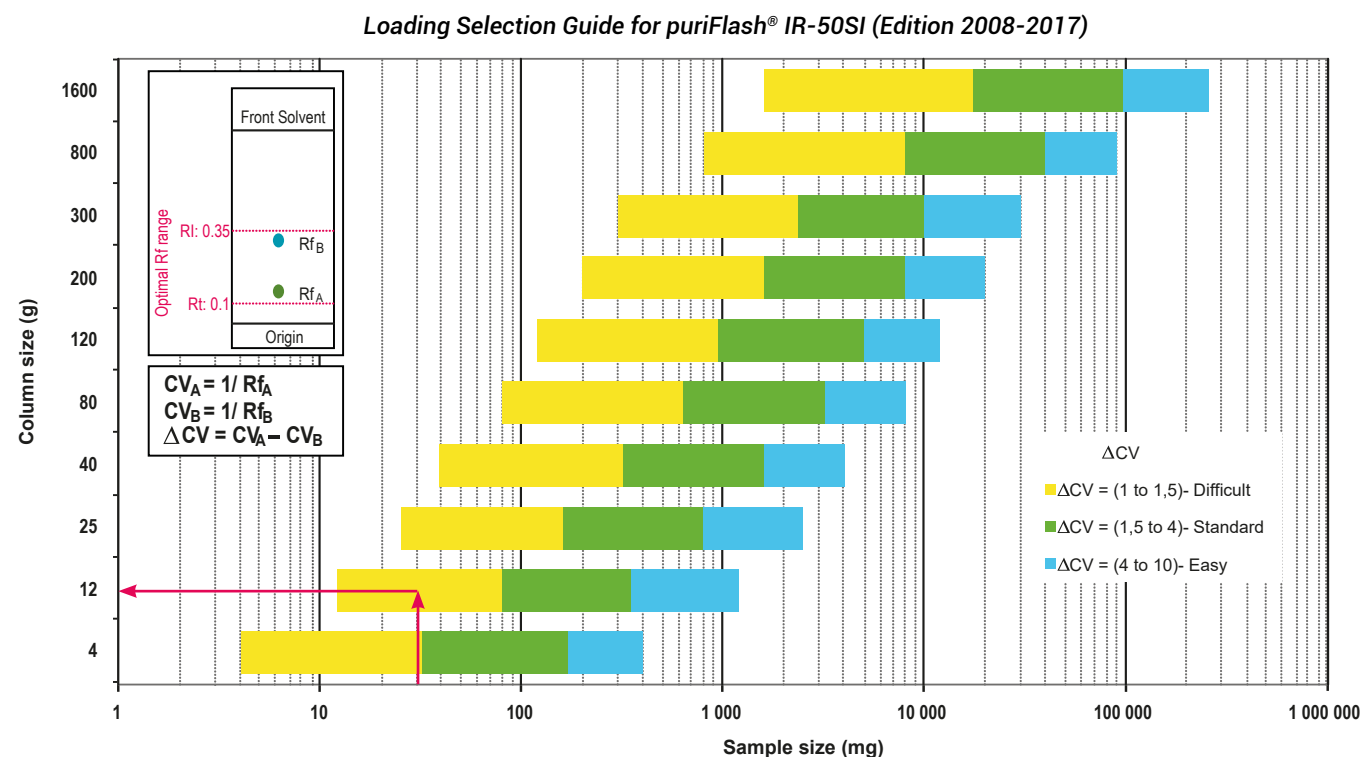
Mobile phase:
90% Petroleum Ether/Ethyl Acetate 10%

| Compound | Rf | CV |
|----------|------|------|
| 1 | 0.20 | 5.00 |
| 2 | 0.14 | 7.14 |

$\Delta CV_{2-1} = 2.14$

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

Crude sample: 30mg
Column: PF-15SIHP-F0012
Loading capacity: 0.25%



Customer has chosen to use PF-15SIHP-F0012 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0012 column.

3. Flash conditions

Device: puriFlash® 430-iELSD (or now puriFlash® 5.020 pack iELSD)

Solvents: A: Petroleum Ether
B: Ethyl Acetate

Column: PF-15SIHP-F0012

Flow rate: 20mL/min

Injection mode: Solid deposit with celite (Dry-load F0004)

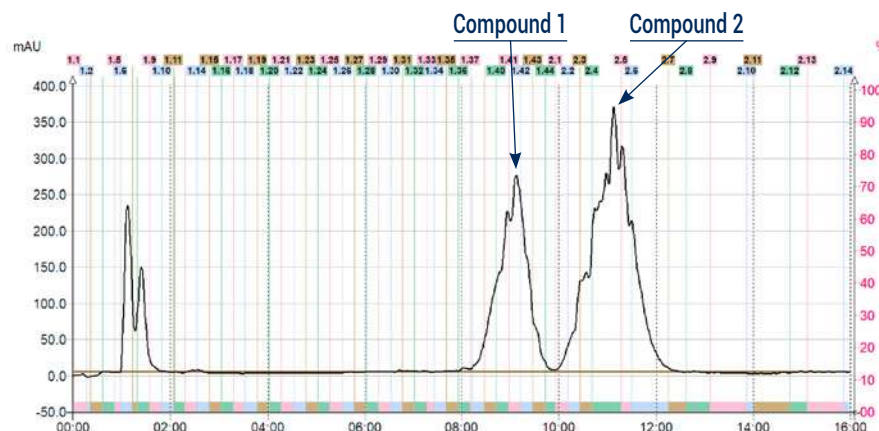
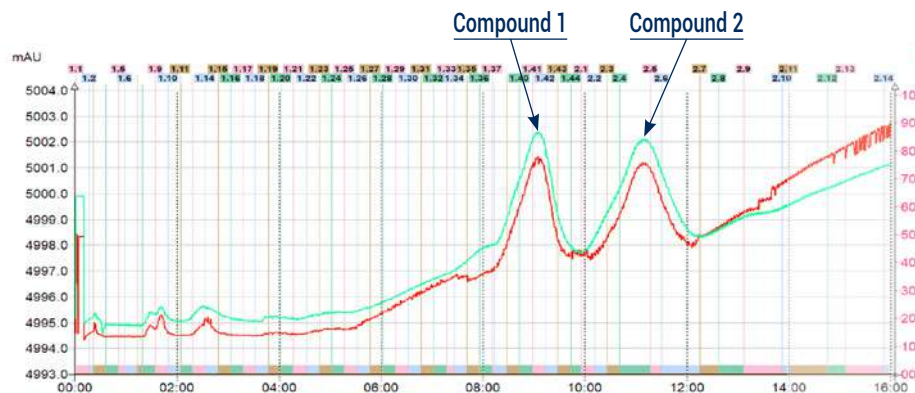
Crude sample: 30mg

Detection: UV Scan 250-350nm (orange), UV 254nm (green),
ELSD (35°C, Gain: 7) (Black)

Mode: Automatic Gradient Optimization

Elution conditions:

| CV | A (%) | B (%) |
|-------|-------|-------|
| 0 | 90 | 10 |
| 2.42 | 90 | 10 |
| 5.79 | 84 | 16 |
| 9.47 | 84 | 16 |
| 21.89 | 60 | 40 |



To achieve this purification:

You will need

- puriFlash® 5.020
[Discover it](#) [Add to card](#)
- Integrated ELSD
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0012
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004
[Discover it](#) [Add to card](#)

We highly recommend

- Compressor for integrated ELSD without quiet cover 1H3490 [Add to card](#)
- Extractor with 2 extraction tubes + kit AYHDZ0 [Add to card](#)
- Ballasting for 1/8" tubing - 5 units DZ7360 [Add to card](#)

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