

Analysis: YL-toluene-3

Path: Home/YL Research

Based on method: Triplets Method

Created	13-May-2019 14:24:07	visionCATSuser
Modified	13-May-2019 16:06:58	visionCATSuser
Last HPTLC log	13-May-2019 16:06:58	Execution of step Visualizer in position (3,1)
Explorer notes		

Track	Vial ID	Description	Volume	Position	Type
1	MeOH blank	MeOH Blank	2.0 µl	A1	Sample
2	Mixture 100	Mixture	2.0 µl	A2	Sample
3	9-THC 100	D9-THC	2.0 µl	A3	Reference
4	CBD 100	CBD	2.0 µl	A4	Reference
5	CBN 100	CBN	2.0 µl	A5	Reference
6	CBG 100	CBG	2.0 µl	A6	Reference
7	CBC 100	CBC	2.0 µl	A7	Reference
8	THCV 100	THCV	2.0 µl	A8	Reference
9	CBDV 100	CBDV	2.0 µl	A9	Reference
10	8-THC 100	D8-THC	2.0 µl	A10	Reference
11	THCA-A 100	THCA-A	2.0 µl	A11	Reference
12	CBDA 100	CBDA	2.0 µl	B1	Reference
13	CBGA 100	CBGA	2.0 µl	B2	Reference
14	Mixture 100	Mixture	2.0 µl	A2	Sample
15	MeOH blank	MeOH Blank	2.0 µl	A1	Sample

Sequence table notes

A track marked with 🚩 means: the application type is overridden in some evaluation(s).

System setup:

Software	Server User-PC, version 2.5.18072.1
ATS4	S/N:080713
Chamber	N/A
Derivatization dip	N/A
Scanner3	S/N:031025
Visualizer	S/N:230515

Chromatography

Plate layout:

Stationary phase	Merck, HPTLC plates silica gel 60 F 254
Plate format	200.0 x 100.0 mm
Application type	Band
Application	Position Y: 8.0 mm, length: 8.0 mm, width: 0.0 mm
Track	First position X: 20.0 mm, distance: 11.4 mm
Solvent front position	70.0 mm
Notes	

Take image clean plate 1a - Visualizer (S/N: 230515):

Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 254	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Application 1 - ATS 4 (S/N: 080713):

Spray gas	Air
Sample solvent type	Methanol
Filling speed	15 µl/s
Predosage volume	200 nl
Retraction volume	200 nl
Dosage speed	150 nl/s
Filling quality	User
Rinsing cycles / vacuum	1 / 4 s
Filling cycles / vacuum	1 / 4 s
Rinsing solvent name	Methanol
Nozzle temperature	Unheated
Rack in use	Standard
Instrument diagnostics	Valid diagnostics
Notes	

Development 1 - Chamber:

Tank	TTC 20x10
Mobile phase	
Saturation time	20 min
Use saturation pad	true
Use smartALERT	false
Volume front through	10 ml
Volume rear through	20 ml
Drying time	5 min
Drying temperature	Room temperature
Notes	

Take image developed plate 1a - Visualizer (S/N: 230515):

Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 254	auto capture, Auto, level 85 %, Band
R 366	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Scan developed plate 1b - Scanner 3 (S/N: 031025):

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Scanner type	Single λ
Optimization for	Resolution
Measurement mode	Absorption
Filter	n/a
Detector mode	Automatic
Scanning speed	20 mm/s
Data resolution	100 $\mu\text{m}/\text{step}$
Slit	5 x 0.2 mm, micro
Partial scan	No
Lamp	Deuterium & Tungsten
Wavelength(s)	254 nm
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Derivatization 1 - dip:

Reagent name	
Dipping speed	5
Dipping time	0 s
Reagent preparation	
Heating	100 °C for 3 min, heated after
Notes	

Take image derivatized plate 1a - Visualizer (S/N: 230515):

Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 366	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

System suitability tests:

SST settings:

SST tracks	
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Data acquisition

Application 1 - ATS 4 (S/N: 080713):

Executed	13-May-2019 14:49:58 visionCATSuser
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Development 1 - Chamber:

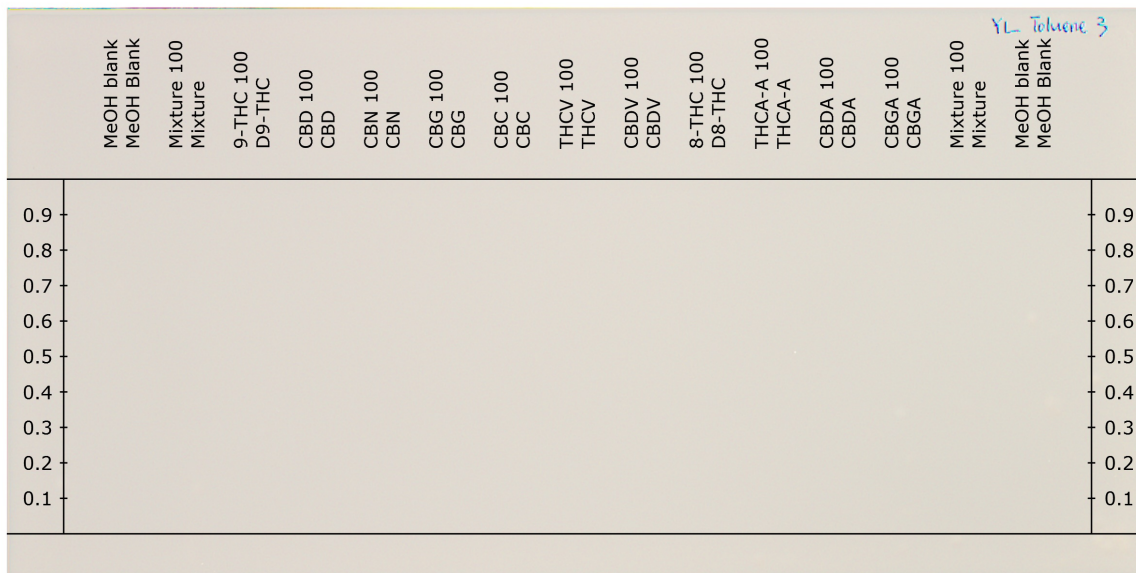
Executed	13-May-2019 15:51:10 visionCATSuser
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Take image developed plate 1a - Visualizer (S/N: 230515):

Executed	13-May-2019 15:52:17 visionCATSuser
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RT White

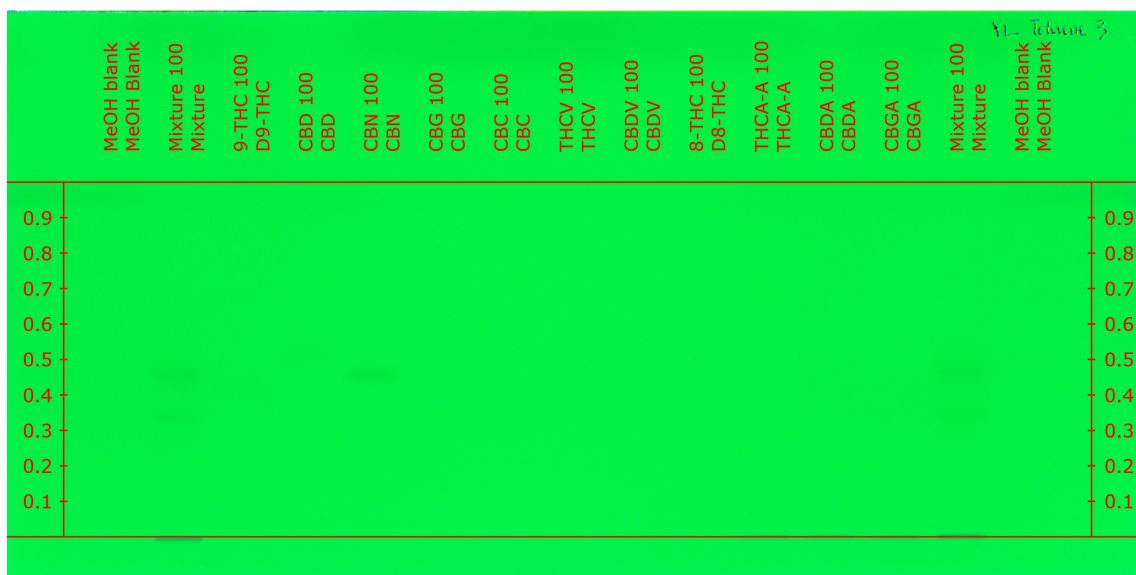
visionCATS
Developed, RemTransVis



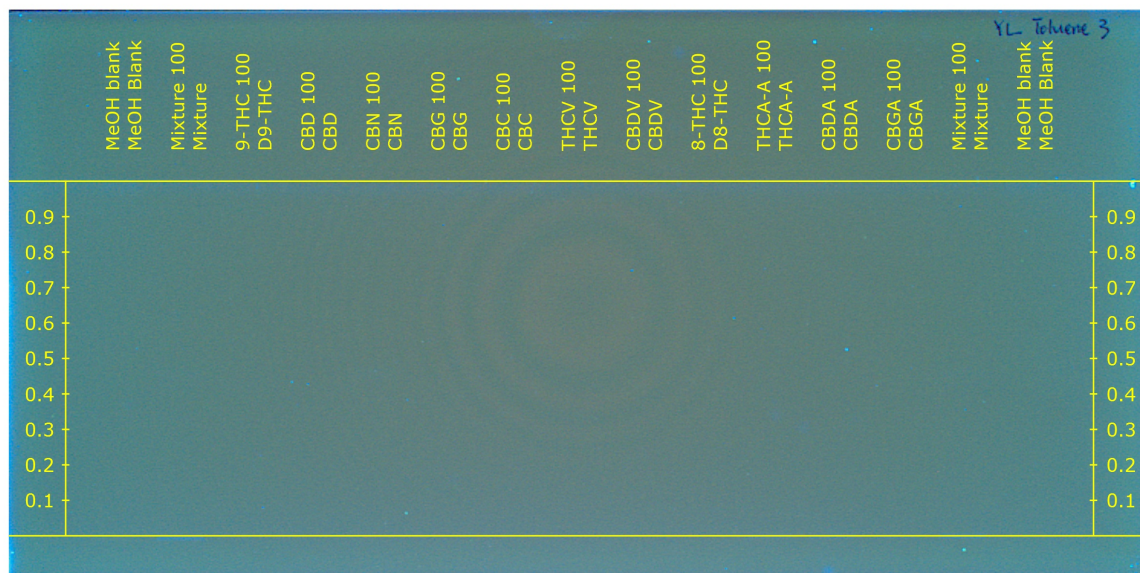
Exposure	0.069 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

R 254

Developed, Remission254



Exposure	0.240 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00



Exposure	10.000 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

Scan developed plate 1b - Scanner 3 (S/N: 031025):

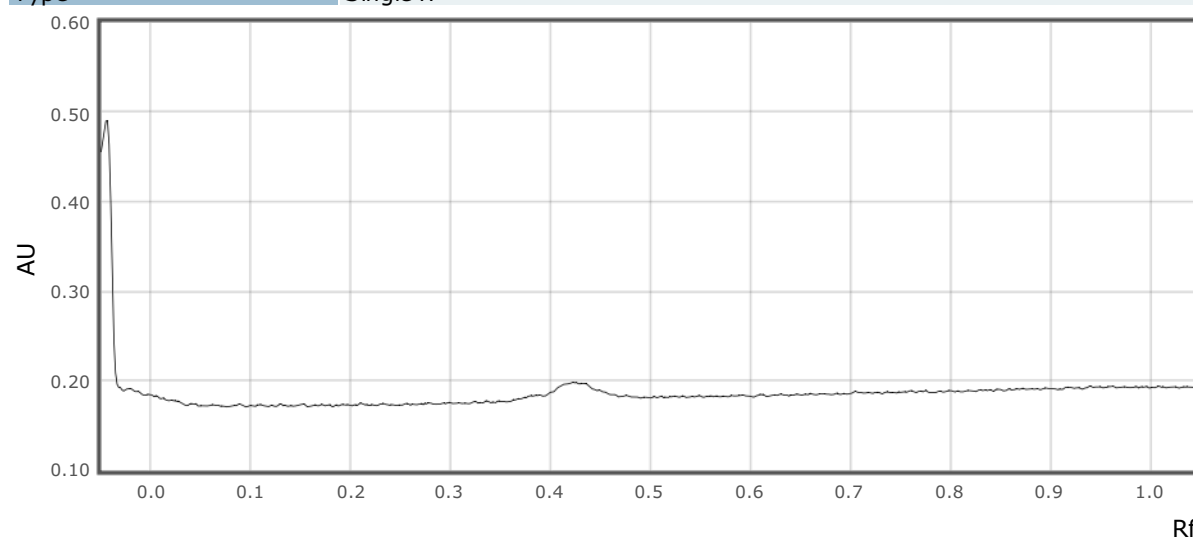
Executed	13-May-2019 15:53:39 visionCATSuser
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Scan:

Wavelength	254 nm
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Track 1:

Type	Single λ
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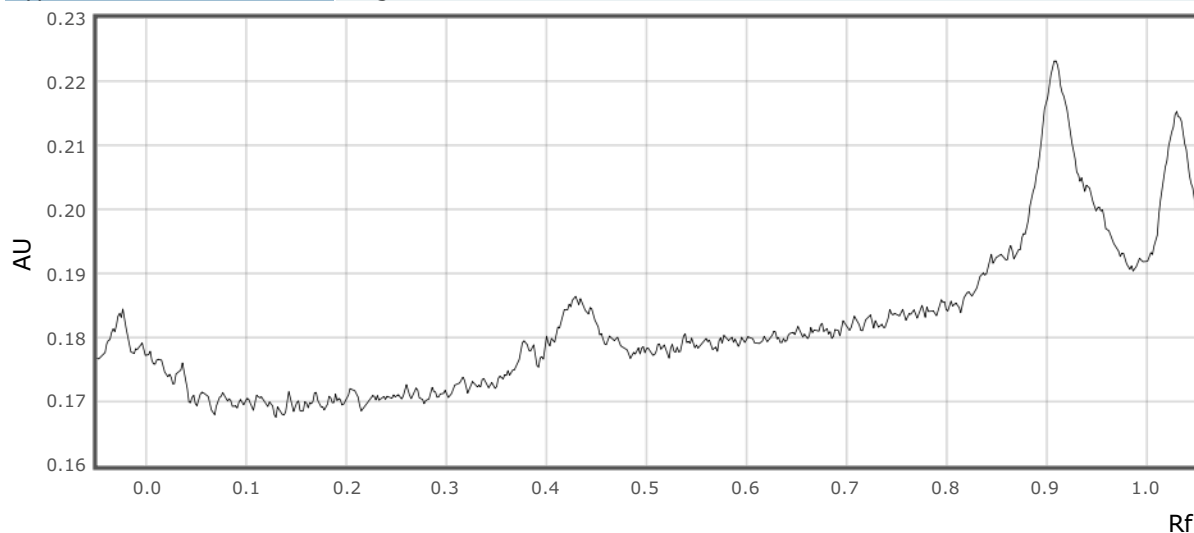


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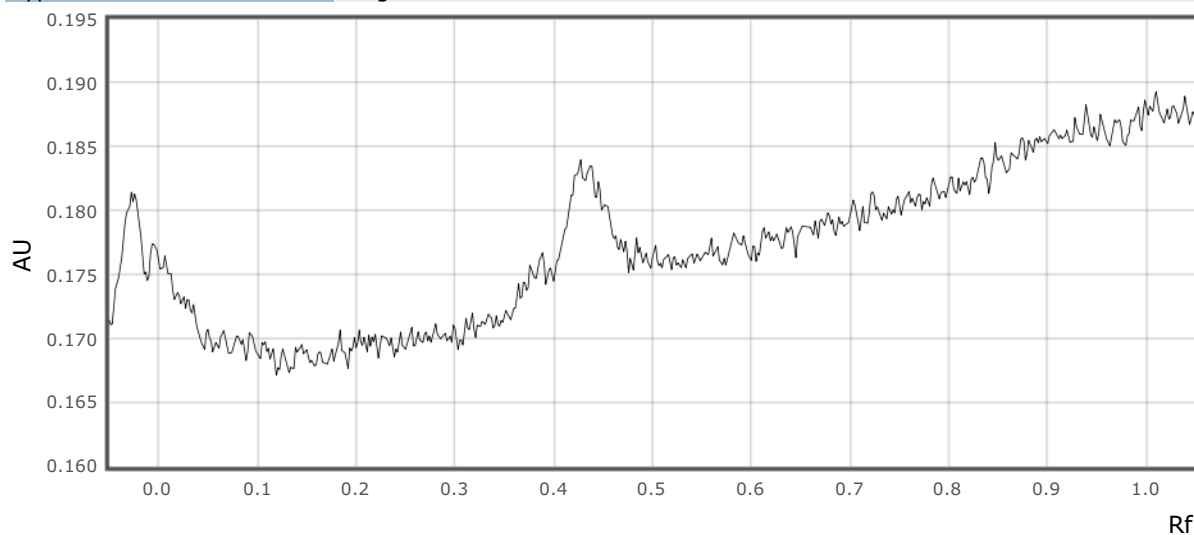
Track 2:

Type Single λ



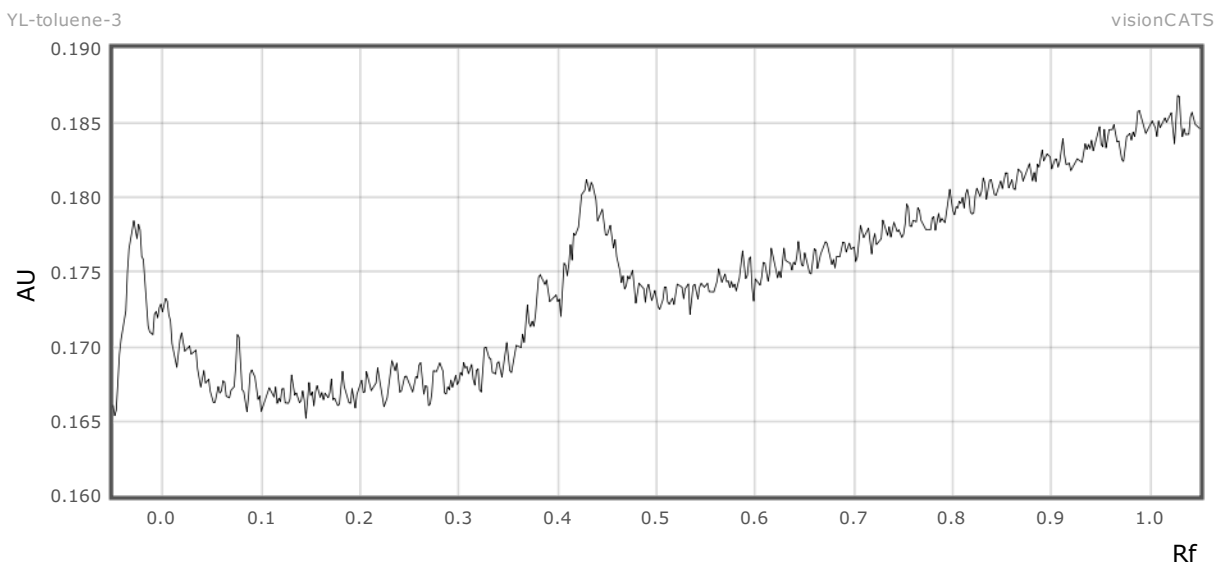
Track 3:

Type Single λ



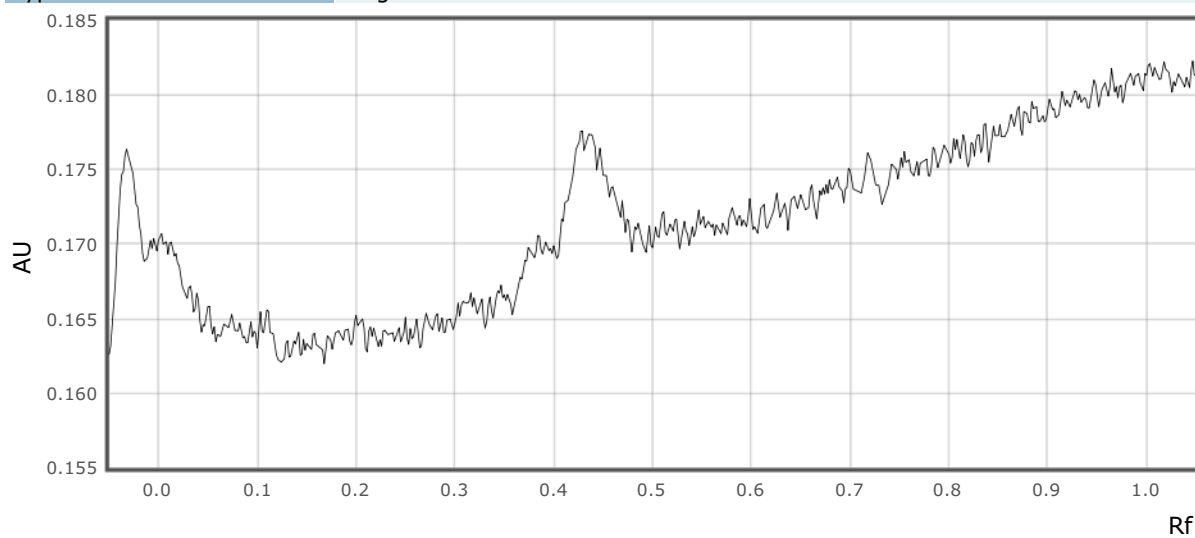
Track 4:

Type Single λ



Track 5:

Type Single λ

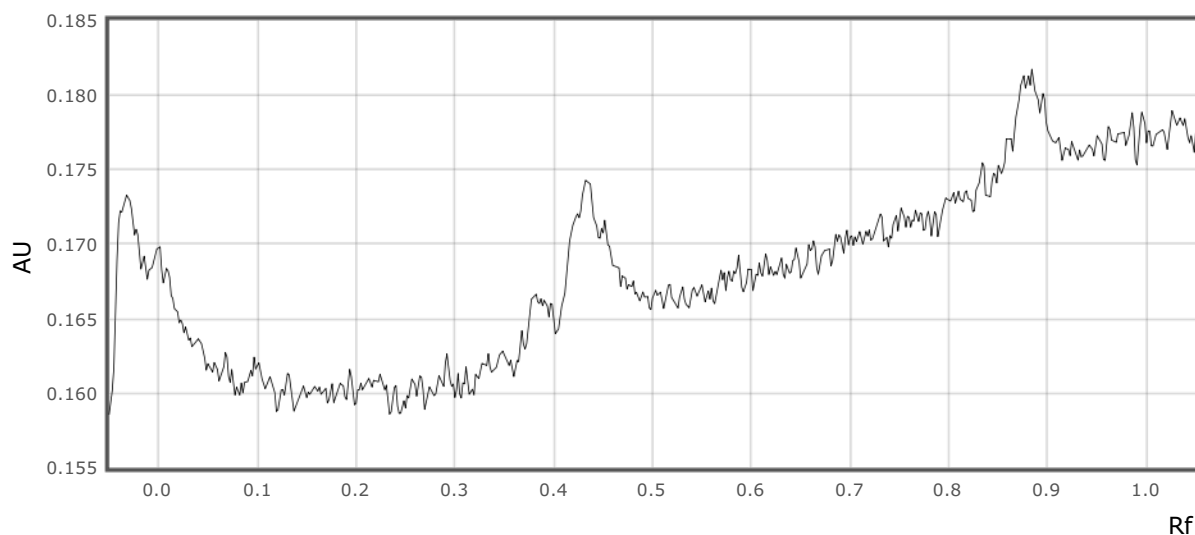


Track 6:

Type Single λ

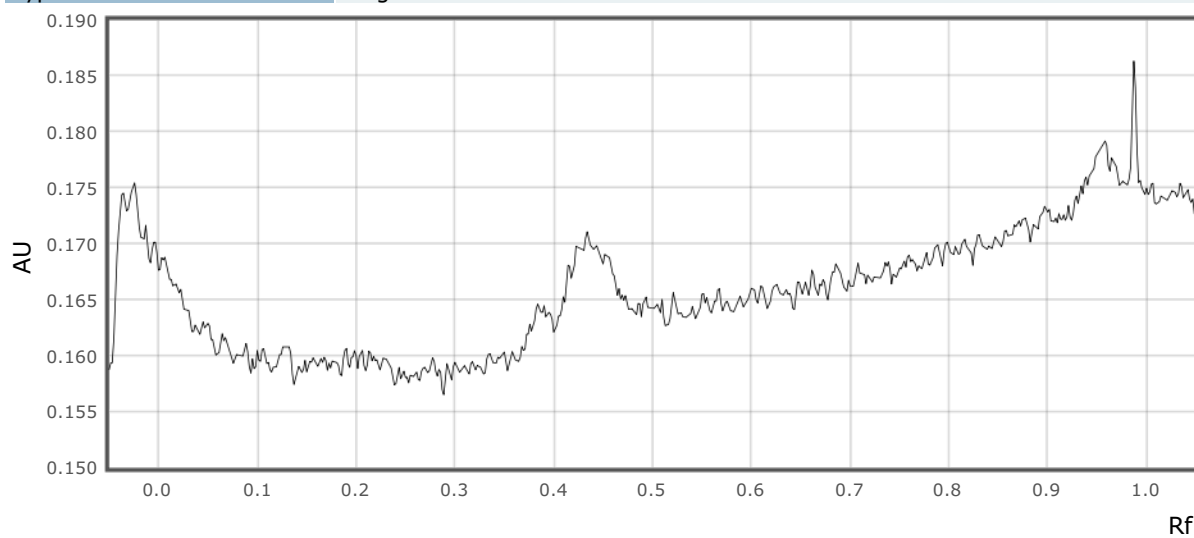
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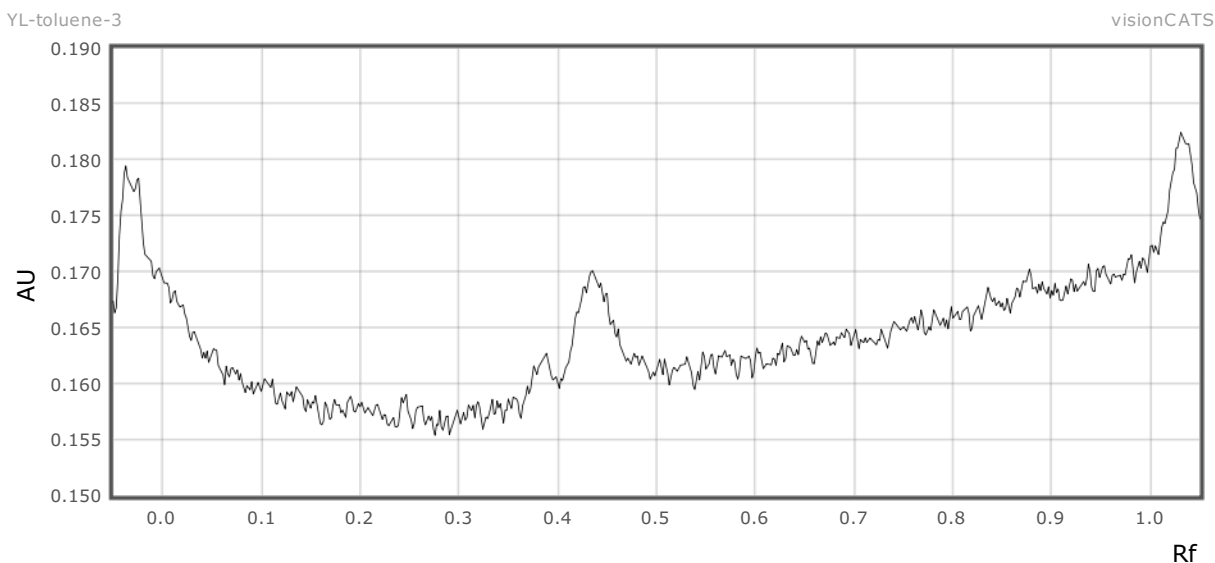
Track 7:

Type Single λ



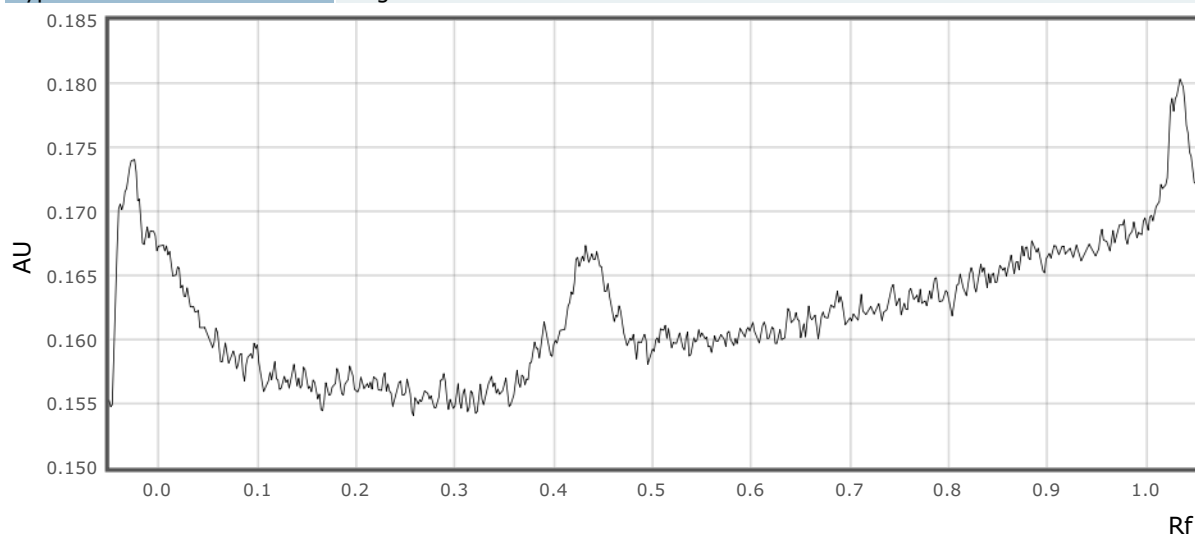
Track 8:

Type Single λ



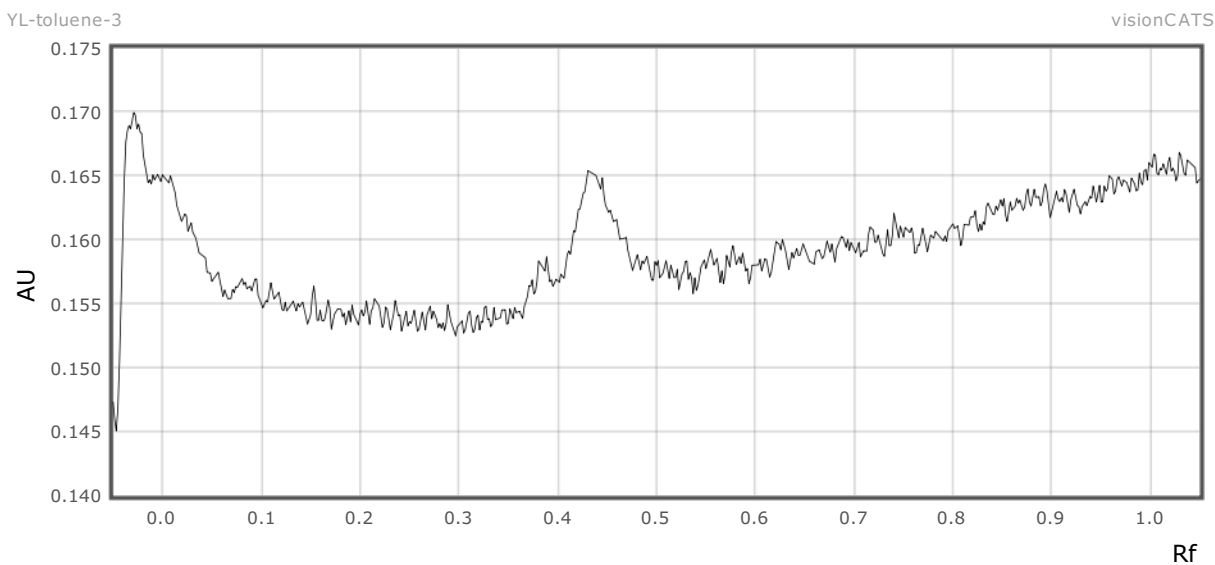
Track 9:

Type Single λ



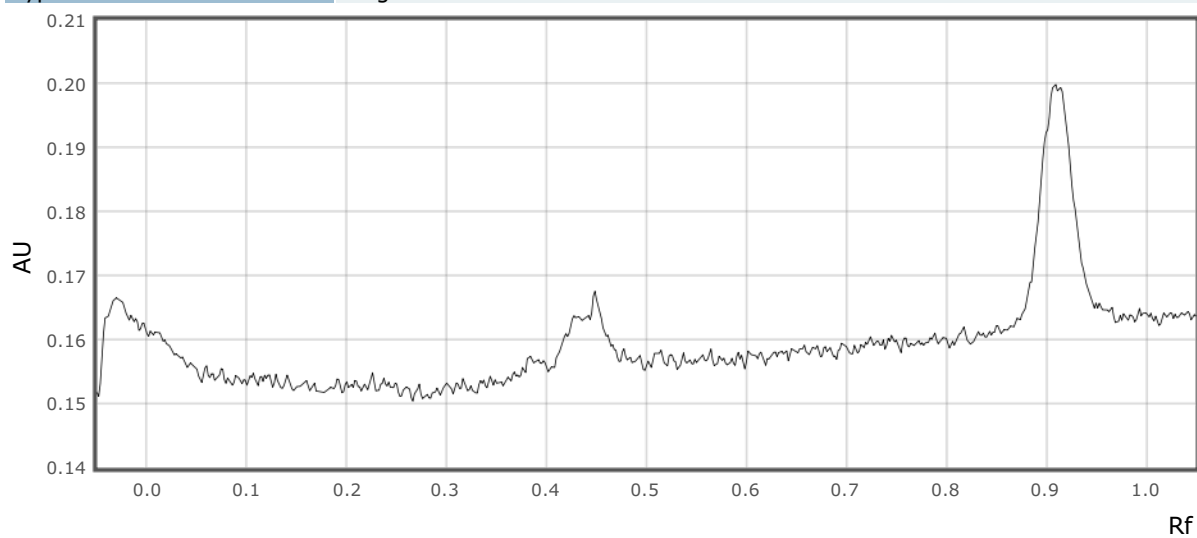
Track 10:

Type Single λ



Track 11:

Type Single λ

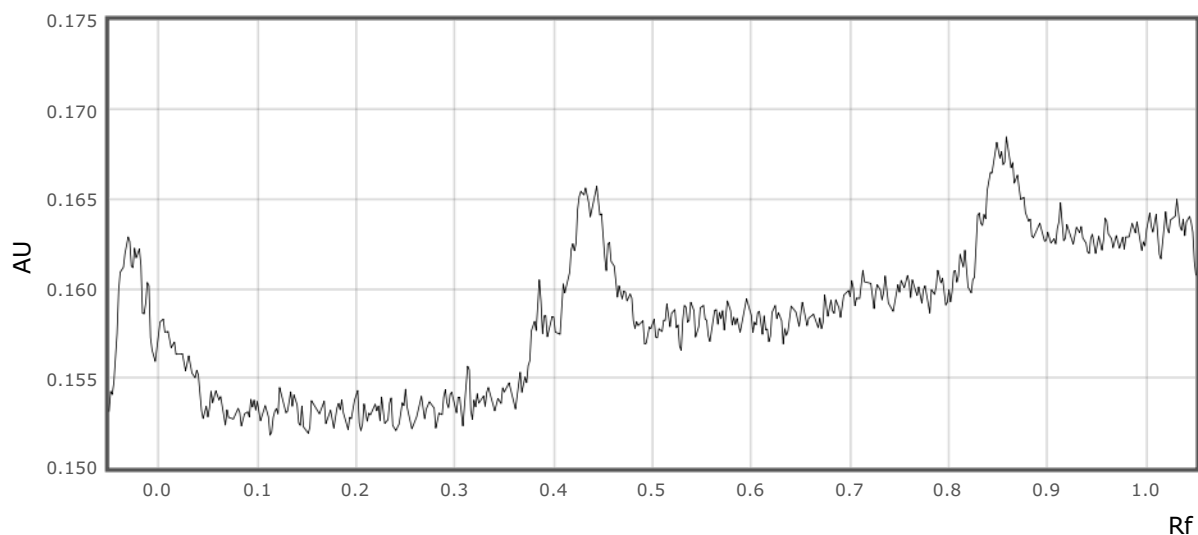


Track 12:

Type Single λ

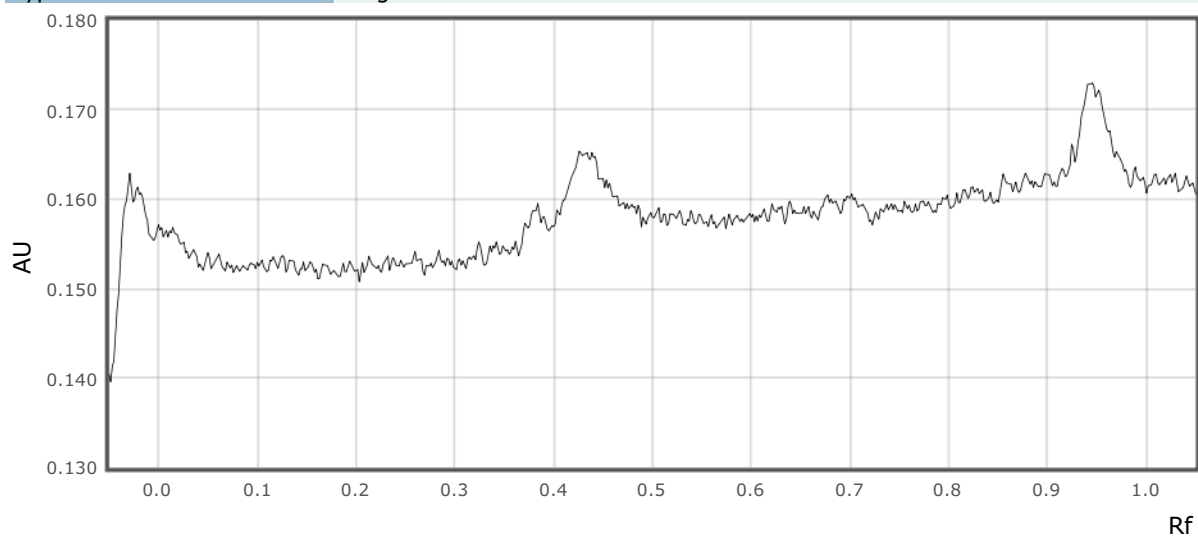
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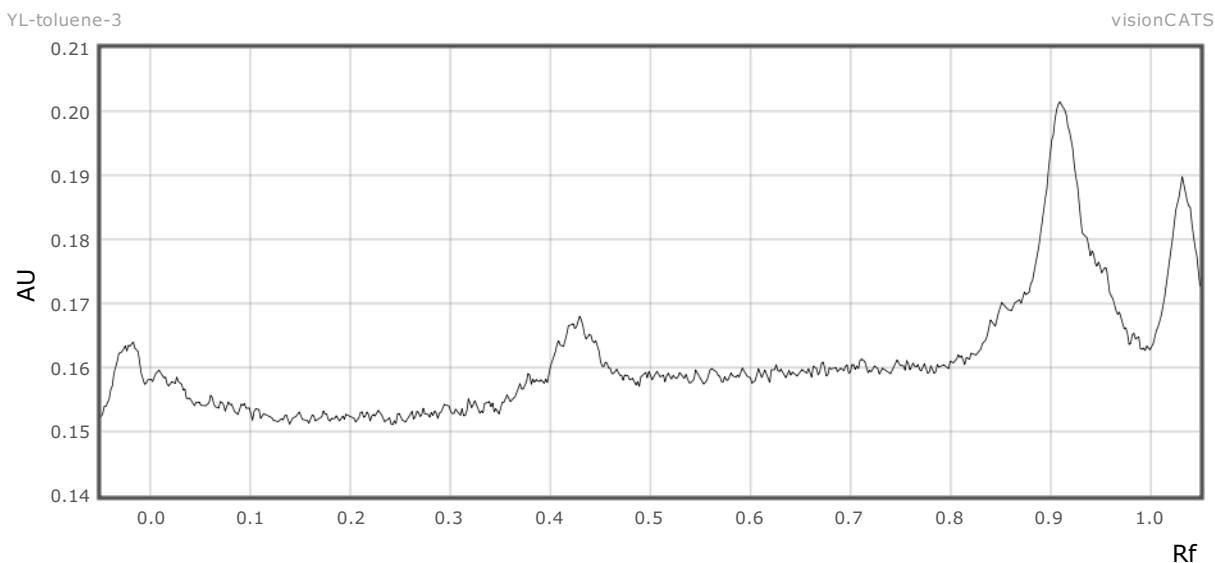
Track 13:

Type Single λ



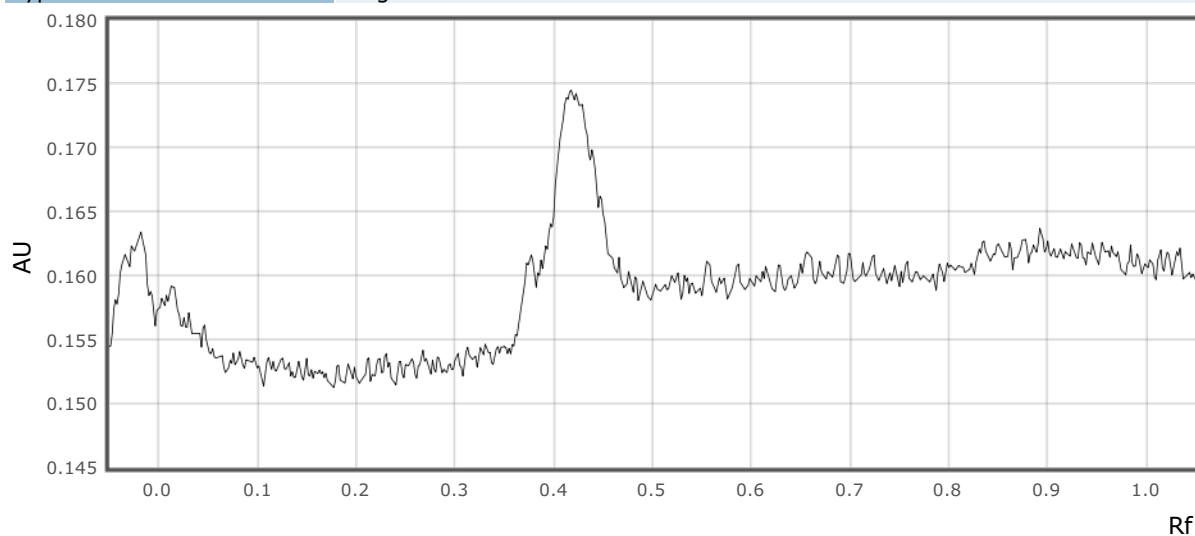
Track 14:

Type Single λ



Track 15:

Type Single λ



Derivatization 1 - dip:

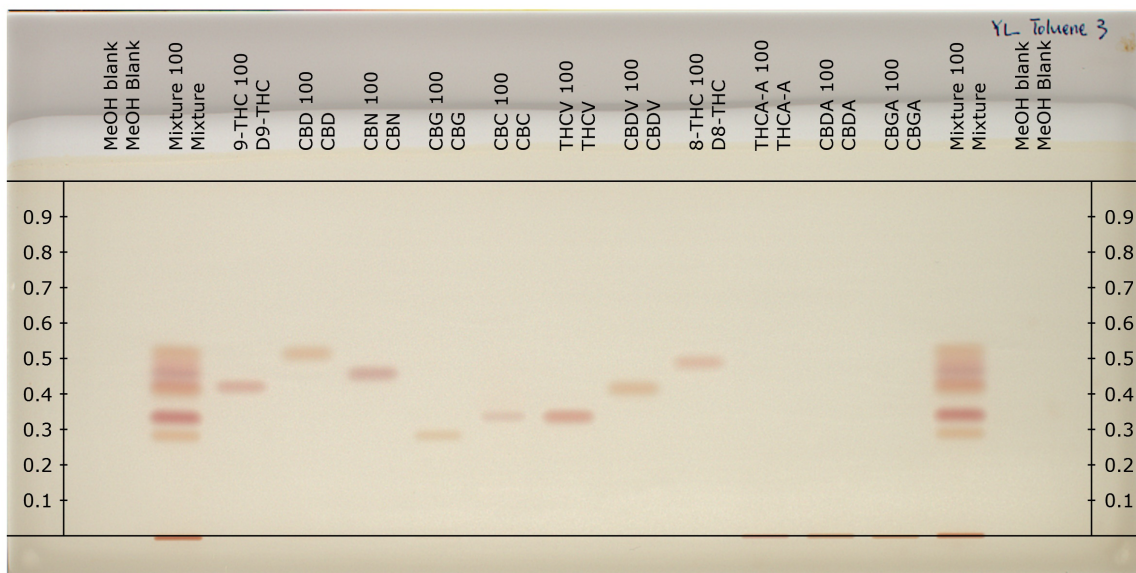
Executed 13-May-2019 15:55:51 visionCATSuser

Take image derivatized plate 1a - Visualizer (S/N: 230515):

Executed 13-May-2019 16:06:08 visionCATSuser

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RT White

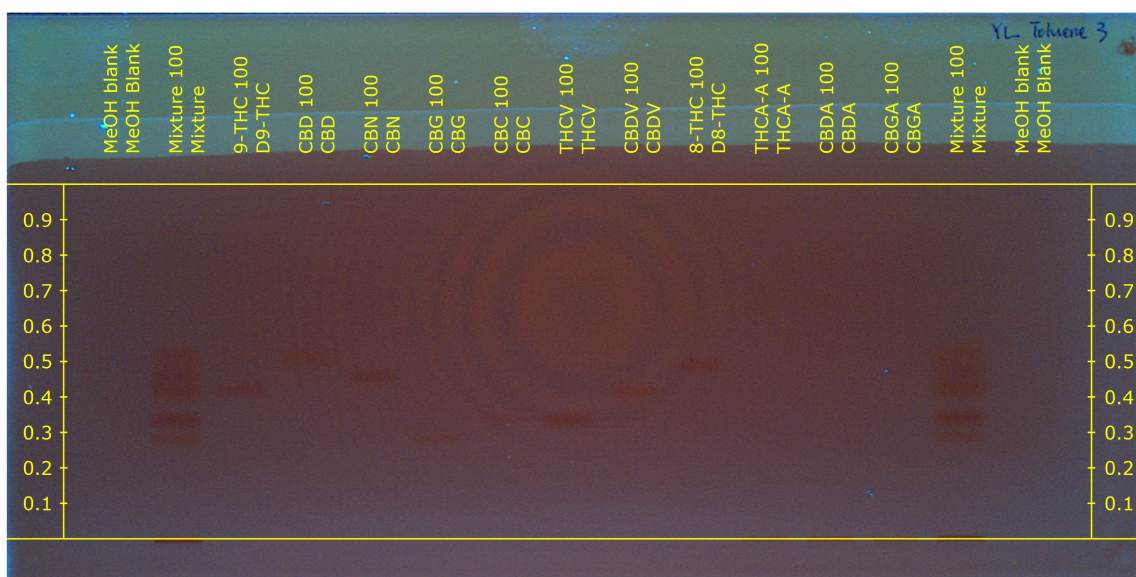
visionCATS
Derivatized, RemTransVis



Exposure	0.043 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

R 366

Derivatized, Remission366



Exposure	10.000 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

Analyst:

Reviewer: