

Analysis: 6DaT-sample run-9

Path: Home/YL Research

Based on method: Samples (no cal)

Created	15-Oct-2019 14:10:10	visionCATSuser
Modified	15-Oct-2019 16:16:56	visionCATSuser
Last HPTLC log	15-Oct-2019 16:16:56	Analysis modified
Explorer notes		

Track	Vial ID	Description	Volume	Position	Type
1	MeOH blank	MeOH Blank	2.0 µl	A1	Sample
2	250ug/mL mix	250ug/mL	2.0 µl	A2	Reference
3	Tetracosane	Tetracosane IS	2.0 µl	A3	Sample
4	s1		2.0 µl	B1	Sample
5	s2		2.0 µl	B2	Sample
6	s3		2.0 µl	B3	Sample
7	s4		2.0 µl	B4	Sample
8	s5		2.0 µl	B5	Sample
9	s6		2.0 µl	B6	Sample
10	s7		2.0 µl	B7	Sample
11	s8		2.0 µl	B8	Sample
12	s9		2.0 µl	B9	Sample
13	s10		2.0 µl	B10	Sample
14	250ug/mL mix	250ug/mL	2.0 µl	A2	Reference
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):

6DaT-sample run-9

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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	NI
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	2 / 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	6% diethylamine in toluene
Saturation time	20 min
Use saturation pad	true
Use smartALERT	false
Volume front through	10 ml
Volume rear through	25 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):

6DaT-sample run-9

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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	15-Oct-2019 14:16:21 visionCATSuser
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Development 1 - Chamber:

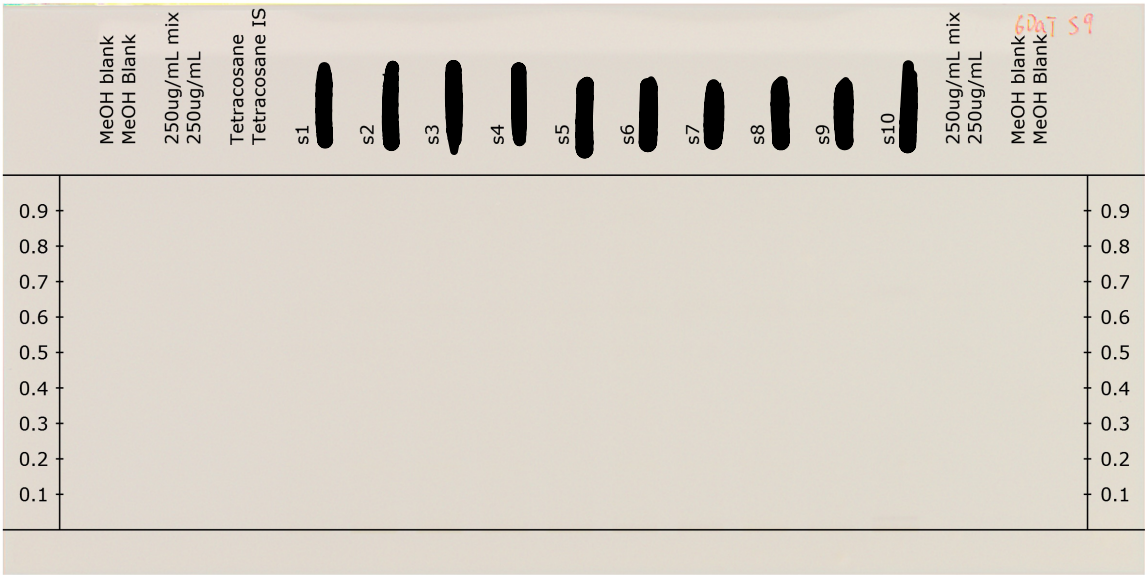
Executed	15-Oct-2019 15:25:15 visionCATSuser
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Take image developed plate 1a - Visualizer (S/N: 230515):

Executed	15-Oct-2019 15:53:30 visionCATSuser
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6DaT-sample run-9
RT White

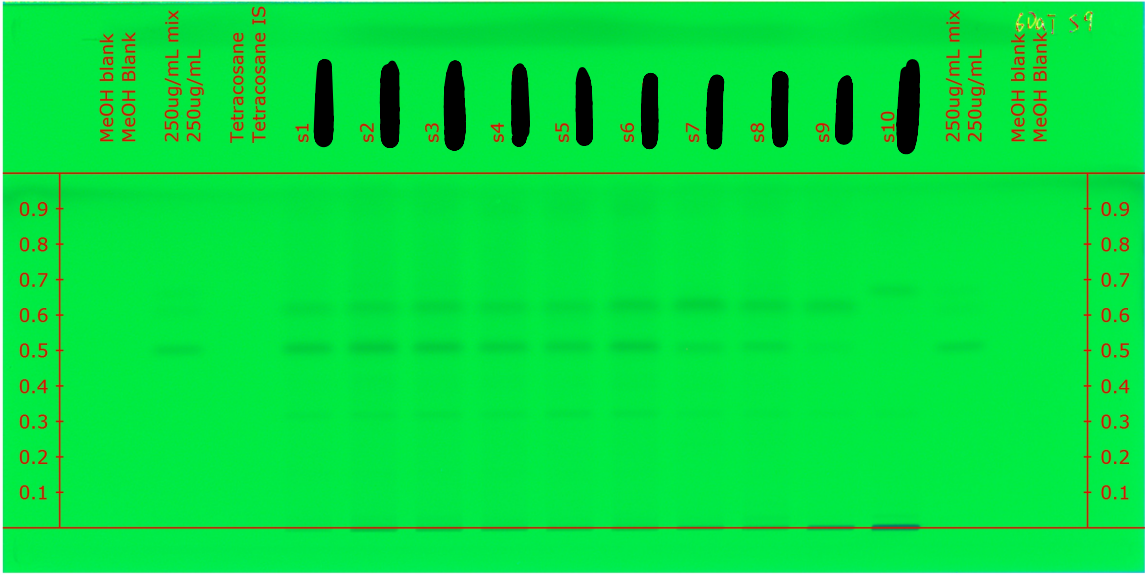
visionCATS
Developed, RemTransVis



Exposure	0.079 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

R 254

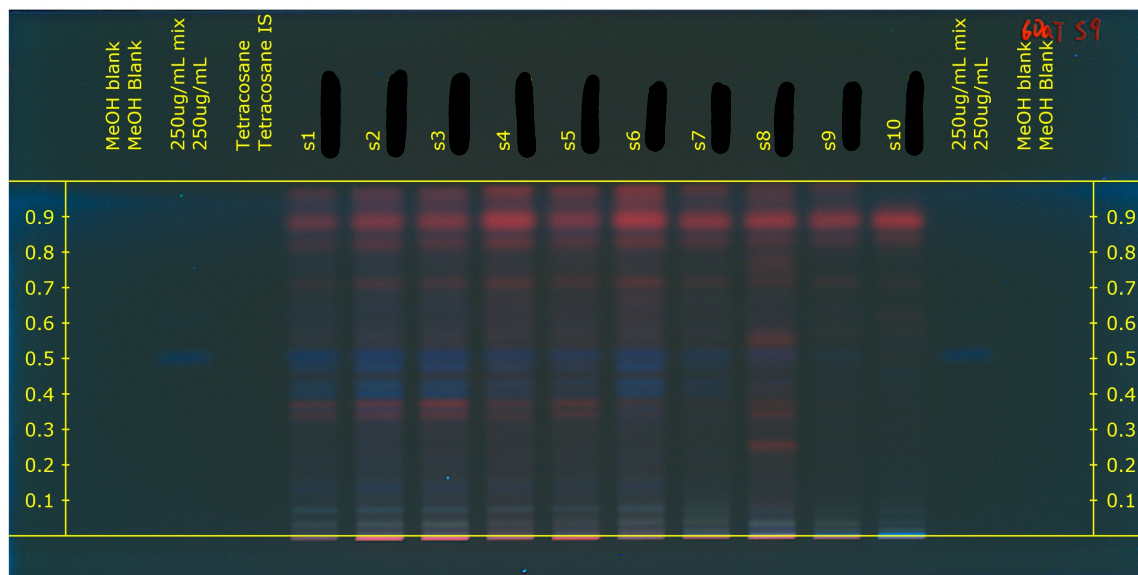
Developed, Remission254



Exposure	0.260 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

6DaT-sample run-9
R 366

visionCATS
Developed, Remission366



Exposure	3.471 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):

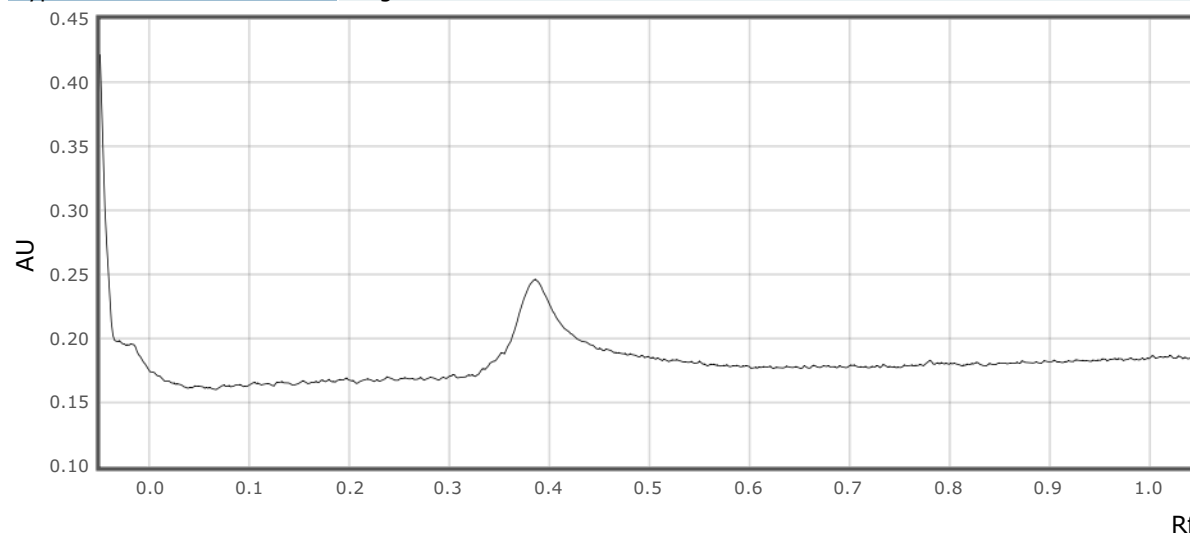
Executed	15-Oct-2019 15:55:49 visionCATSuser
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Scan:

Wavelength	254 nm
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Track 1:

Type	Single λ
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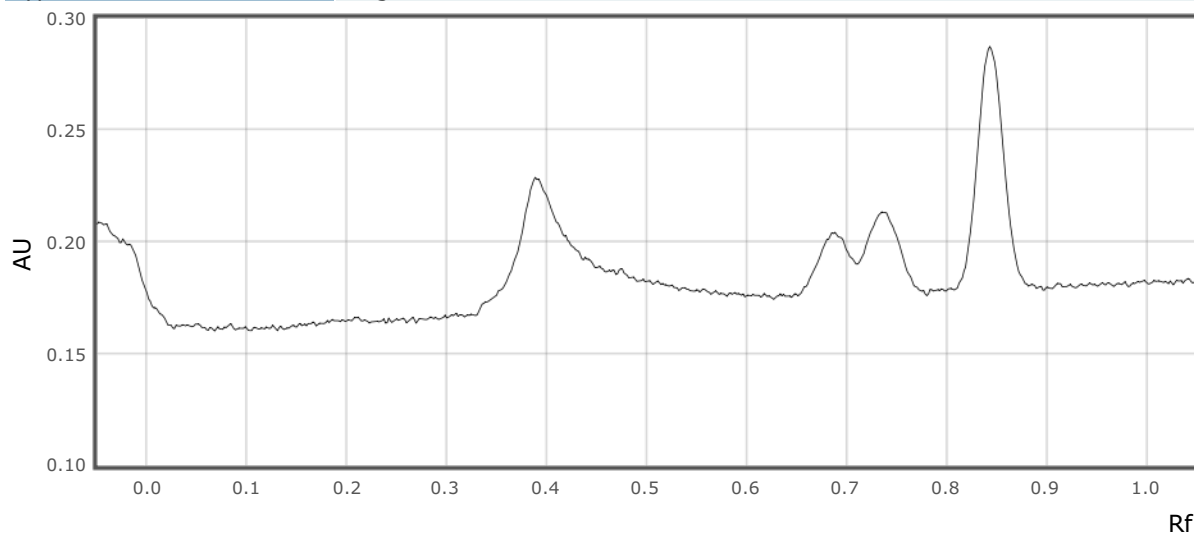


6DaT-sample run-9

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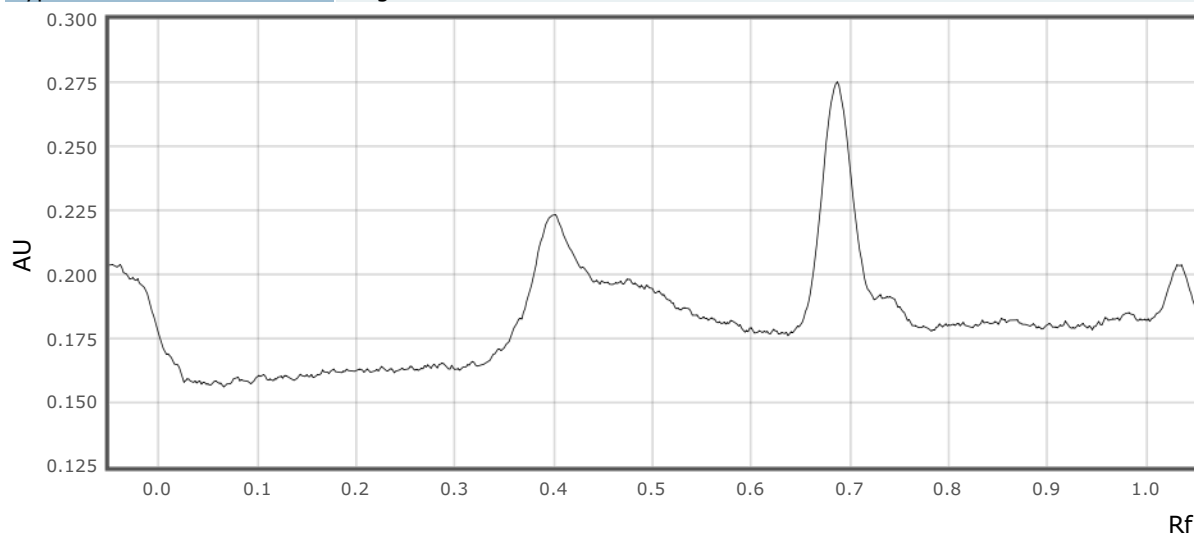
Track 2:

Type Single λ



Track 3:

Type Single λ

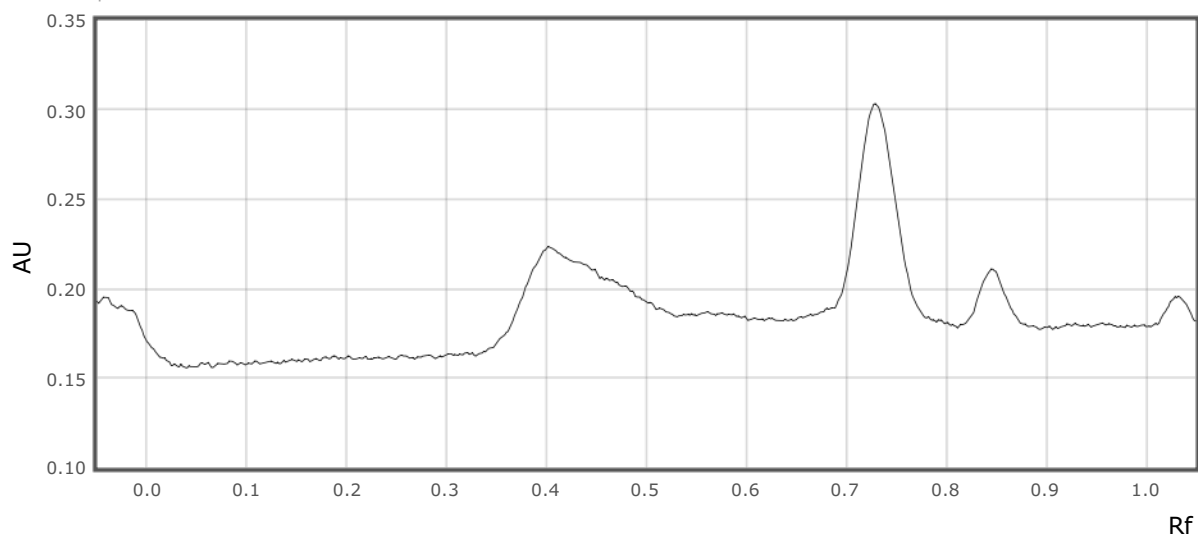


Track 4:

Type Single λ

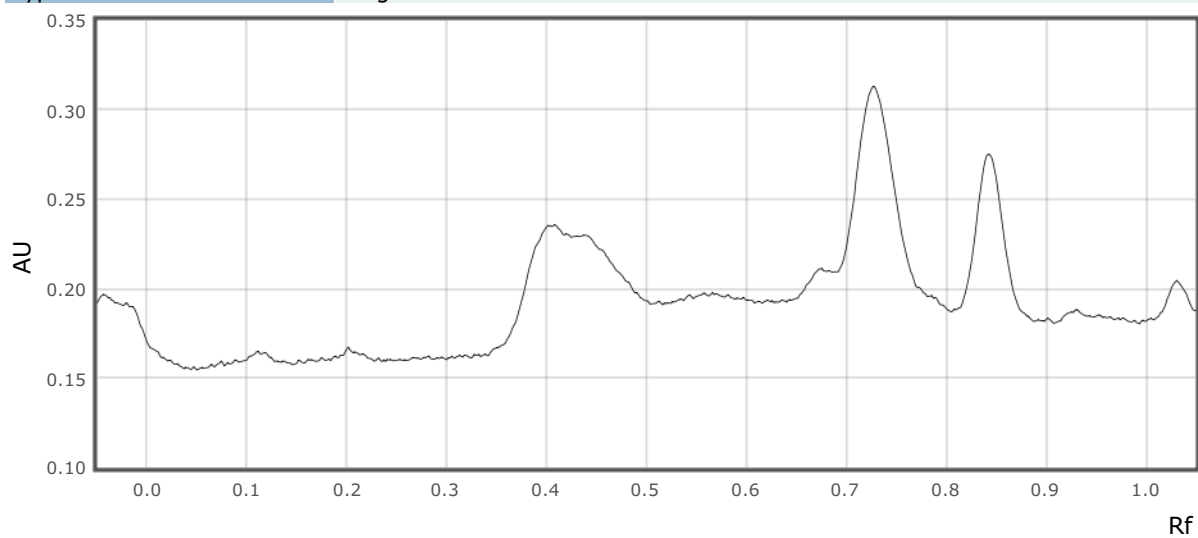
6DaT-sample run-9

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Track 5:

Type Single λ

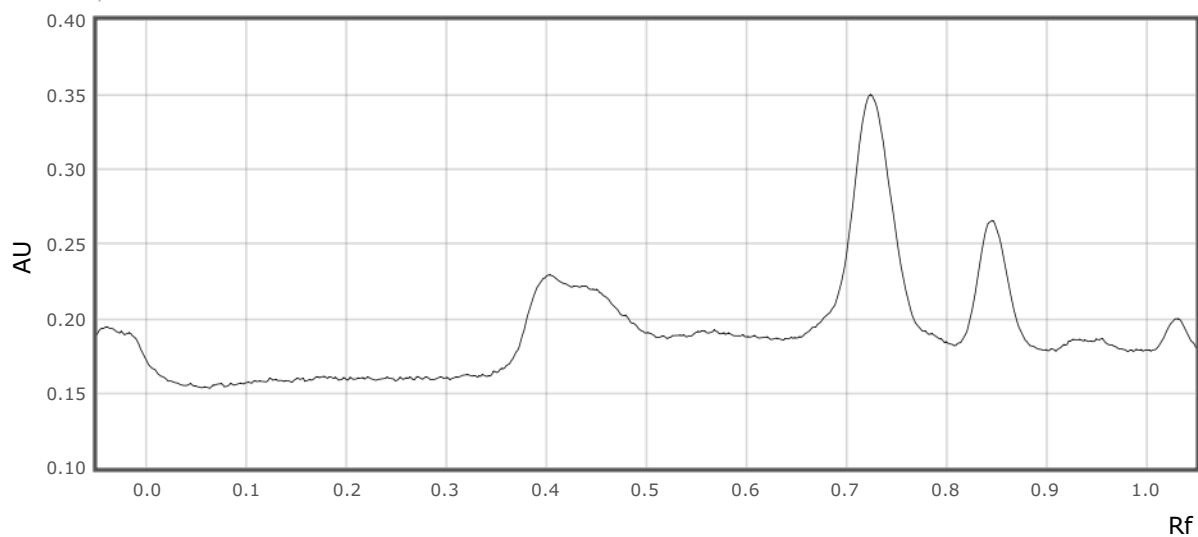


Track 6:

Type Single λ

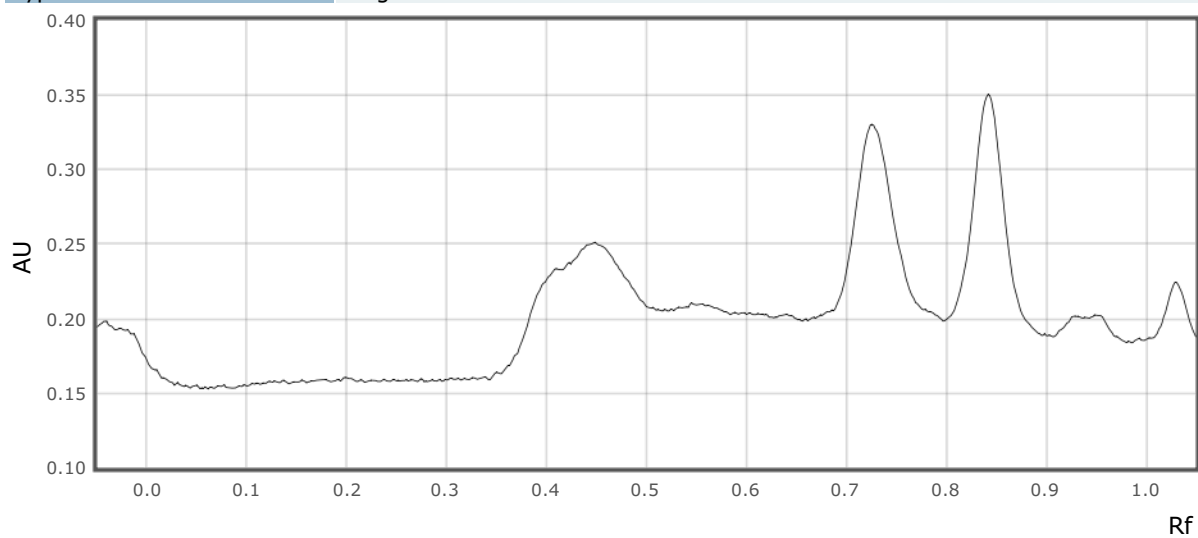
6DaT-sample run-9

visionCATS



Track 7:

Type Single λ

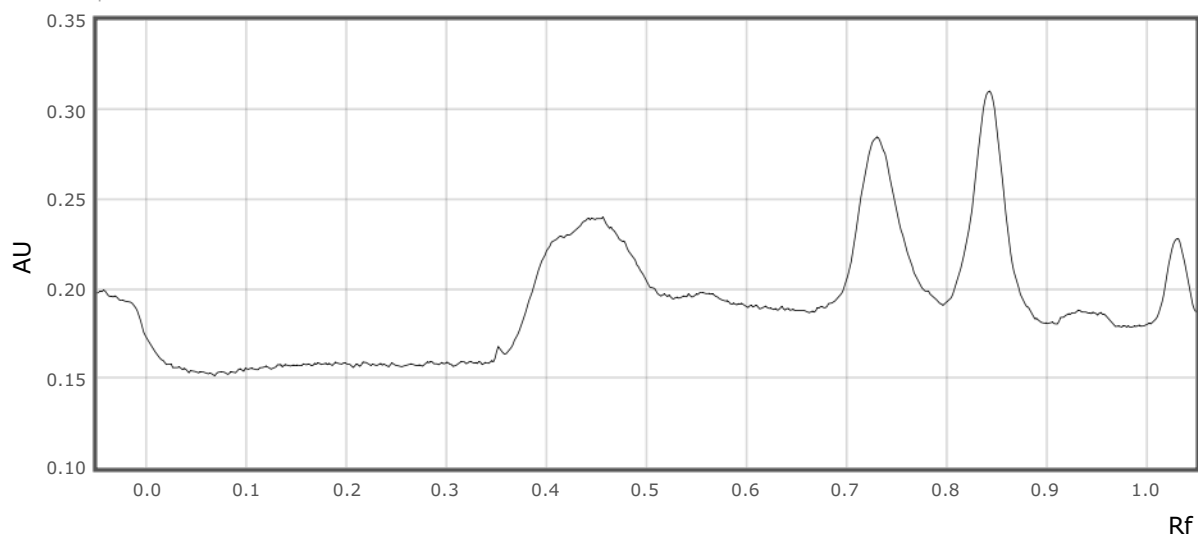


Track 8:

Type Single λ

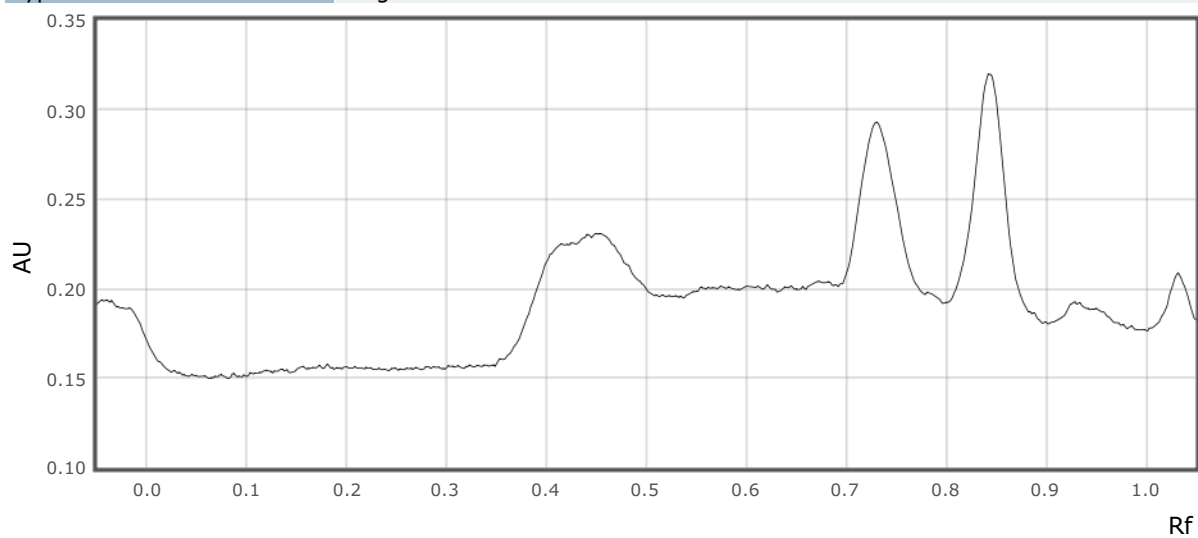
6DaT-sample run-9

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Track 9:

Type Single λ

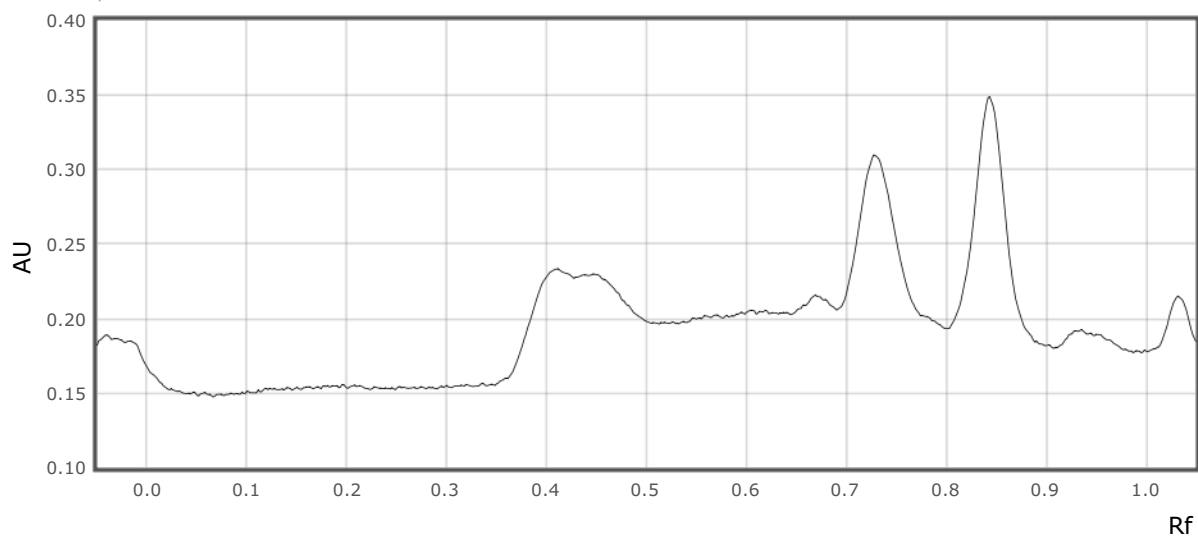


Track 10:

Type Single λ

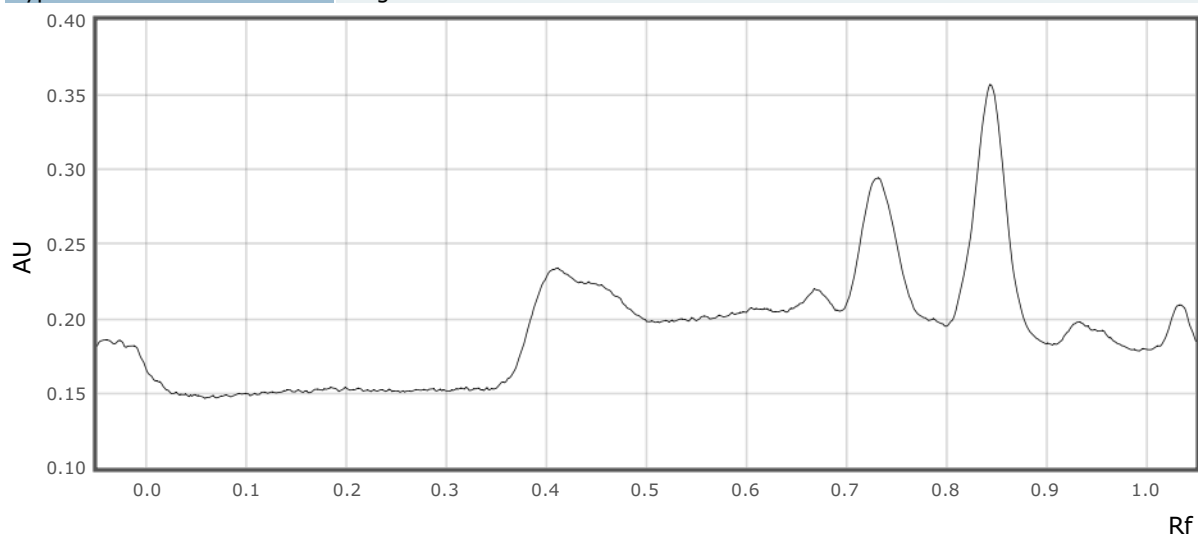
6DaT-sample run-9

visionCATS



Track 11:

Type Single λ

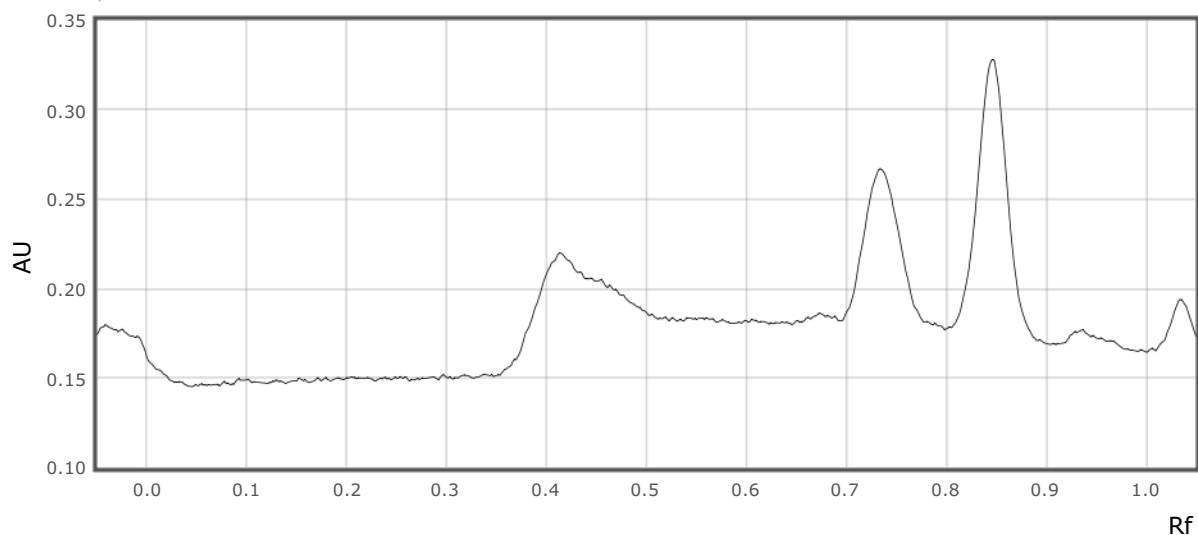


Track 12:

Type Single λ

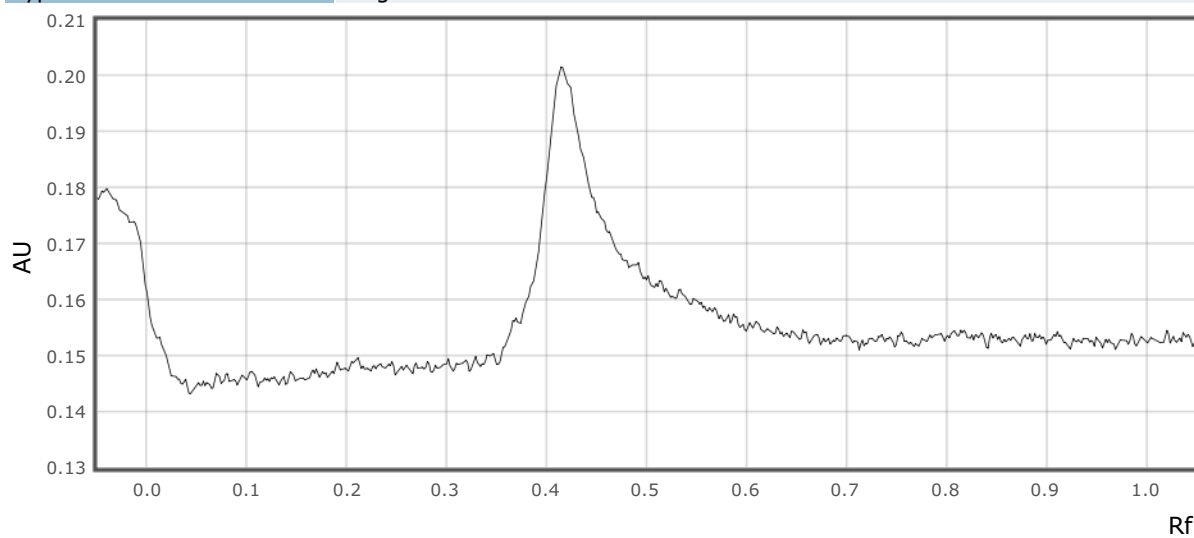
6DaT-sample run-9

visionCATS



Track 13:

Type Single λ

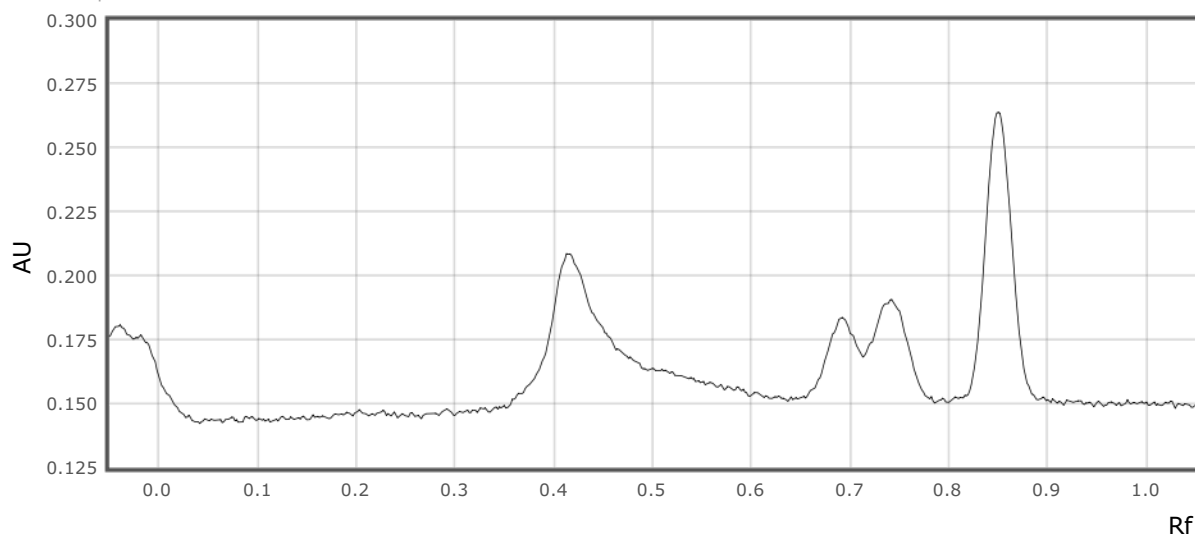


Track 14:

Type Single λ

6DaT-sample run-9

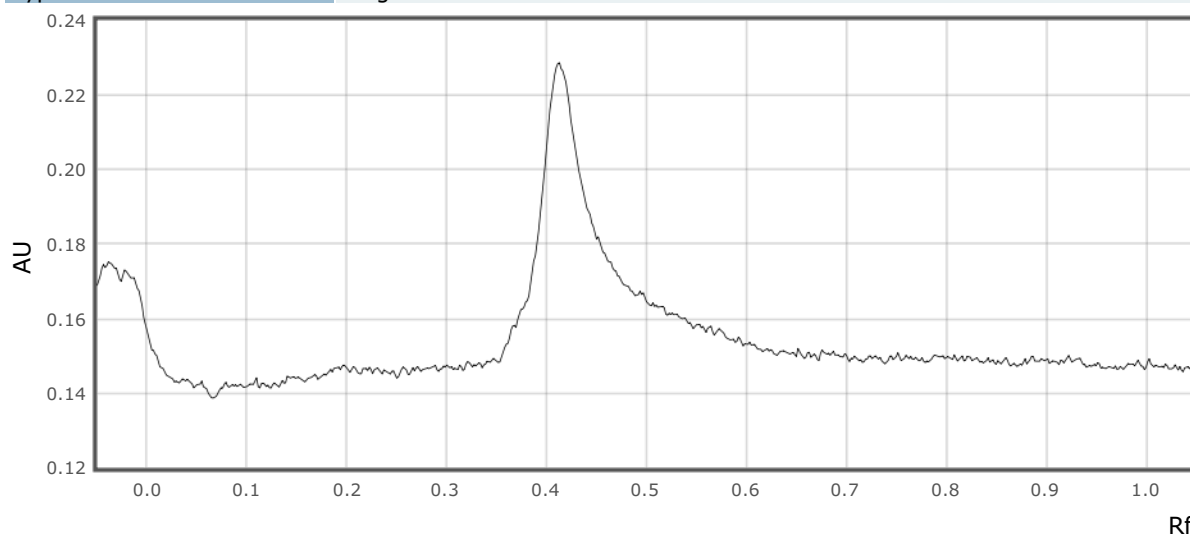
visionCATS



Track 15:

Type

Single λ



Derivatization 1 - dip:

Executed

15-Oct-2019 15:59:48 visionCATSuser

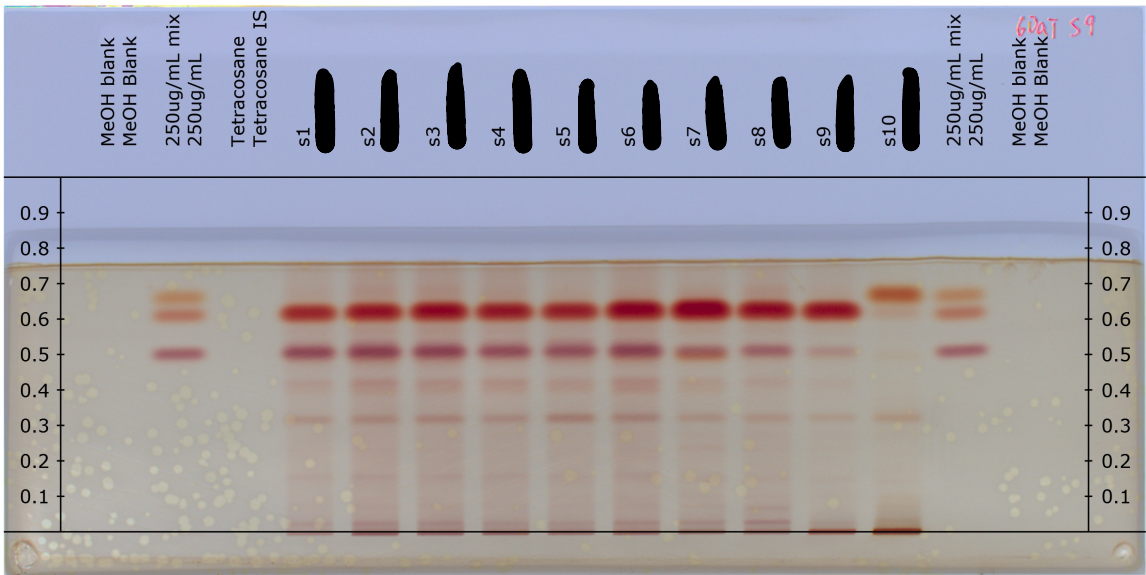
Take image derivatized plate 1a - Visualizer (S/N: 230515):

Executed

15-Oct-2019 16:06:44 visionCATSuser

6DaT-sample run-9
RT White

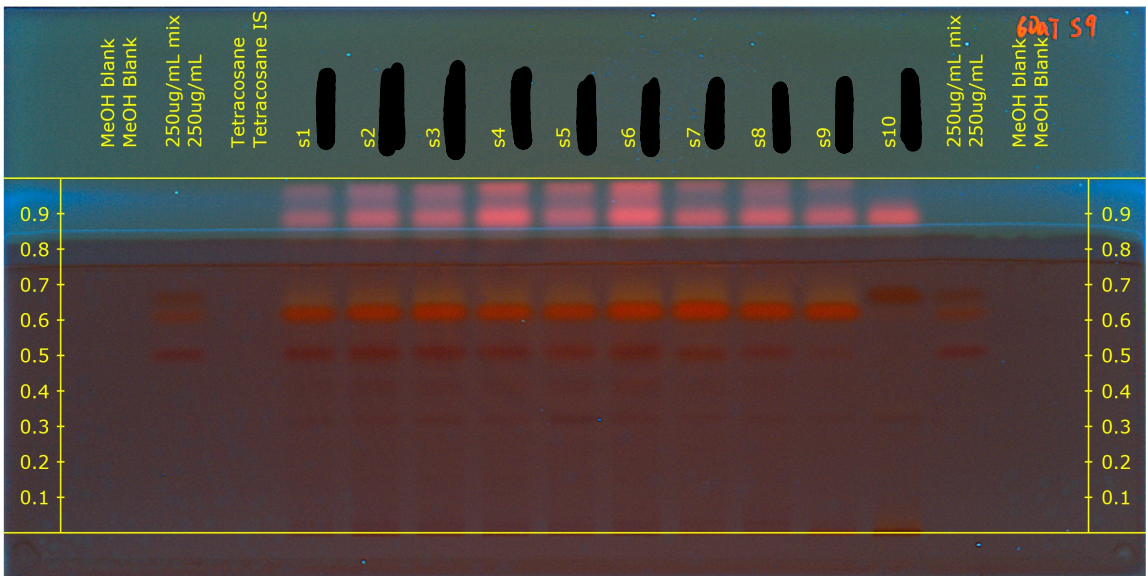
visionCATS
Derivatized, RemTransVis



Exposure	0.057 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.28, 1.13, 0.75

R 366

Derivatized, Remission366



Exposure	9.999 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

Evaluation 1 :

6DaT-sample run-9

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Validated	false
Step	Take image derivatized plate 1a
Concentration unit type	Mass / volume
Notes	

Definition:

References:

250ug/mL mix

Substance Name	Concentration	Purity
9-THC	250.000 µg/ml	100.00 %
CBD	250.000 µg/ml	100.00 %
CBN	250.000 µg/ml	100.00 %

Samples:

Vial ID	Amount	Volume solution	Reference amount	Related to
MeOH blank		0.00 ml		
Tetracosane		0.00 ml		
s1		0.00 ml		
s2		0.00 ml		
s3		0.00 ml		
s4		0.00 ml		
s5		0.00 ml		
s6		0.00 ml		
s7		0.00 ml		
s8		0.00 ml		
s9		0.00 ml		
s10		0.00 ml		

Integration parameters:

Bounds	[0.000,1.000]
Smoothing	Savitzky-Golay of order 3 and window 7
Baseline correction	Lowest slope with noise 0.05
Profile subtraction	Profile subtraction from track 1
Peaks detection	Gauss (legacy) with sensitivity 0.1, separation 1 and threshold 0.1

Scan:

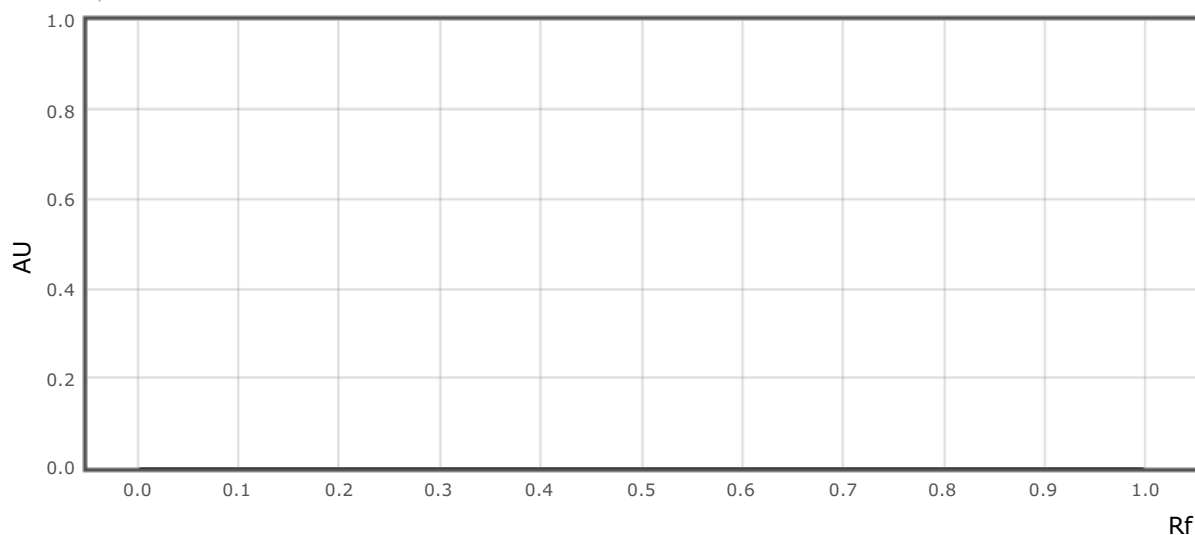
Wavelength	RT White
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Track 1:

Type	Sample
Vial ID	MeOH blank
Description	MeOH Blank
Volume	2.0 µl

6DaT-sample run-9

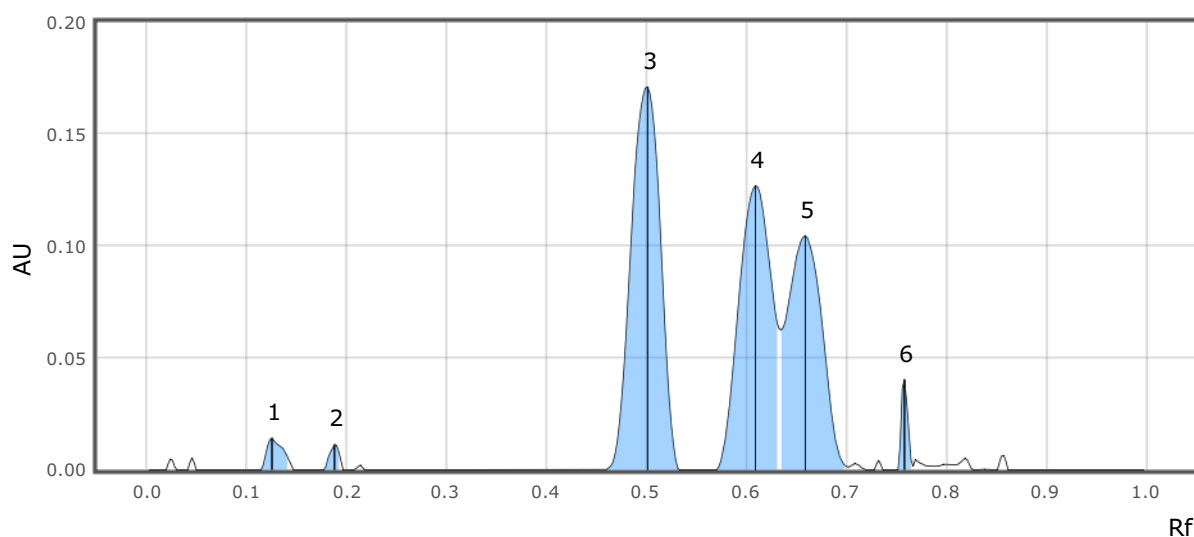
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		

Track 2:

Type	Reference
Vial ID	250ug/mL mix
Description	250ug/mL
Volume	2.0 µl

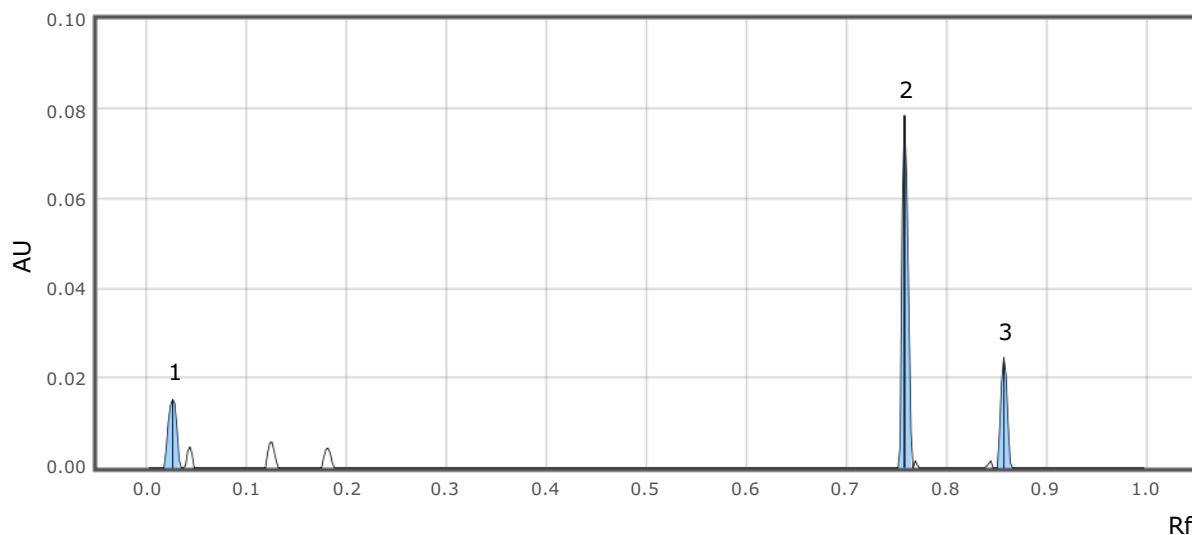


Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.114	0.0000	0.125	0.0142	3.03	0.147	0.0000	0.00027	1.74	No	
2	0.177	0.0000	0.188	0.0113	2.41	0.196	0.0000	0.00012	0.81	No	
3	0.458	0.0000	0.501	0.1710	36.54	0.533	0.0000	0.00580	37.73	No	
4	0.570	0.0000	0.609	0.1268	27.09	0.633	0.0628	0.00476	30.96	No	9-THC
5	0.635	0.0625	0.659	0.1045	22.32	0.702	0.0012	0.00412	26.79	No	CBD
6	0.752	0.0000	0.758	0.0404	8.62	0.767	0.0017	0.00030	1.97	No	

6DaT-sample run-9

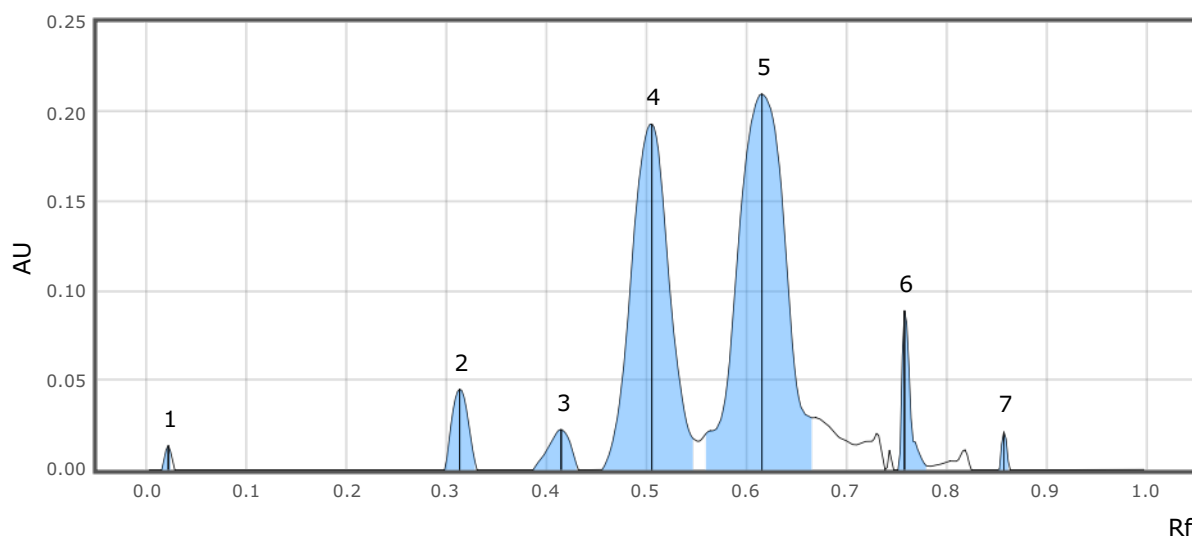
visionCATS

Track 3:	
Type	Sample
Vial ID	Tetracosane
Description	Tetracosane IS
Volume	2.0 µl



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.017	0.0000	0.026	0.0152	12.88	0.034	0.0000	0.00015	16.98	No	
2	0.752	0.0000	0.758	0.0785	66.39	0.767	0.0000	0.00054	62.32	No	
3	0.851	0.0000	0.858	0.0245	20.72	0.866	0.0000	0.00018	20.70	No	

Track 4:	
Type	Sample
Vial ID	s1
Description	
Volume	2.0 µl



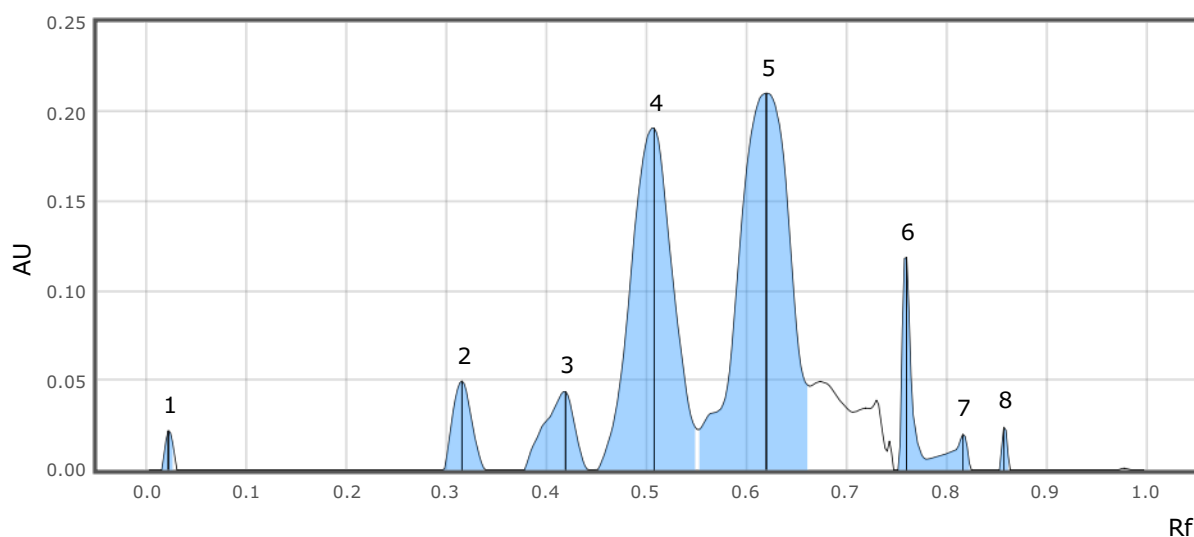
6DaT-sample run-9

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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.021	0.0135	2.28	0.028	0.0000	0.00010	0.43	No	
2	0.298	0.0000	0.313	0.0450	7.58	0.330	0.0000	0.00084	3.71	No	
3	0.387	0.0000	0.415	0.0225	3.79	0.432	0.0000	0.00057	2.50	No	
4	0.454	0.0000	0.505	0.1930	32.50	0.551	0.0160	0.00849	37.52	No	CBN
5	0.559	0.0202	0.616	0.2098	35.32	0.667	0.0289	0.01166	51.50	No	9-THC
6	0.752	0.0000	0.758	0.0889	14.97	0.782	0.0020	0.00086	3.78	No	
7	0.851	0.0000	0.858	0.0212	3.57	0.864	0.0000	0.00013	0.55	No	

Track 5:

Type	Sample
Vial ID	s2
Description	
Volume	2.0 µl



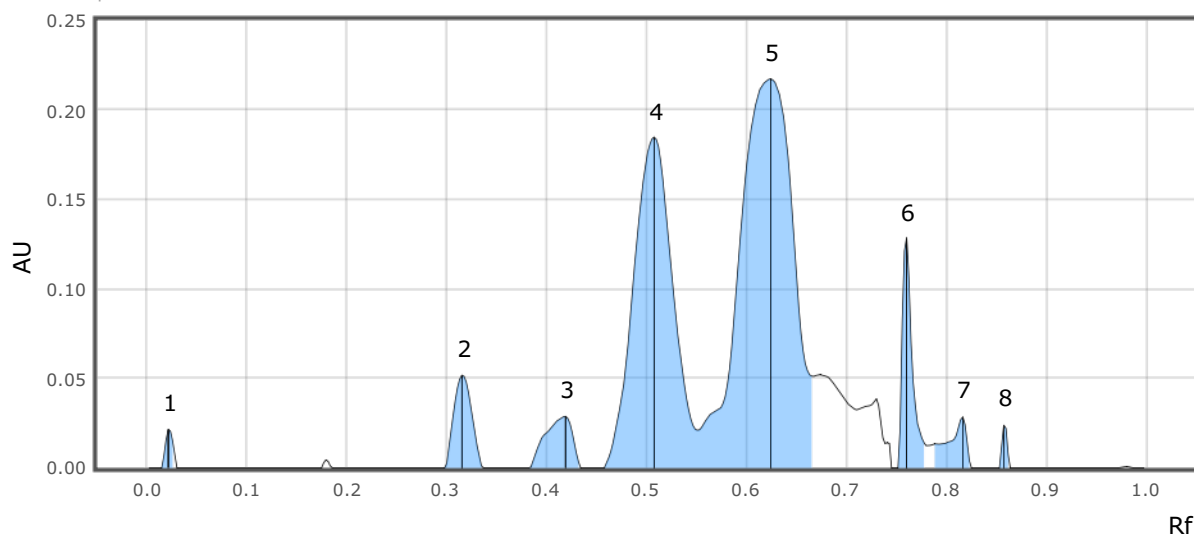
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.021	0.0219	3.22	0.030	0.0000	0.00019	0.73	No	
2	0.296	0.0000	0.315	0.0496	7.32	0.339	0.0000	0.00107	4.03	No	
3	0.378	0.0000	0.419	0.0437	6.44	0.443	0.0000	0.00149	5.61	No	
4	0.449	0.0000	0.508	0.1908	28.13	0.551	0.0225	0.00929	35.06	No	
5	0.553	0.0225	0.620	0.2102	30.99	0.663	0.0467	0.01264	47.71	No	9-THC
6	0.752	0.0000	0.760	0.1185	17.46	0.780	0.0059	0.00123	4.64	No	
7	0.780	0.0059	0.817	0.0198	2.92	0.825	0.0000	0.00045	1.69	No	
8	0.853	0.0000	0.858	0.0238	3.51	0.864	0.0000	0.00014	0.54	No	

Track 6:

Type	Sample
Vial ID	s3
Description	
Volume	2.0 µl

6DaT-sample run-9

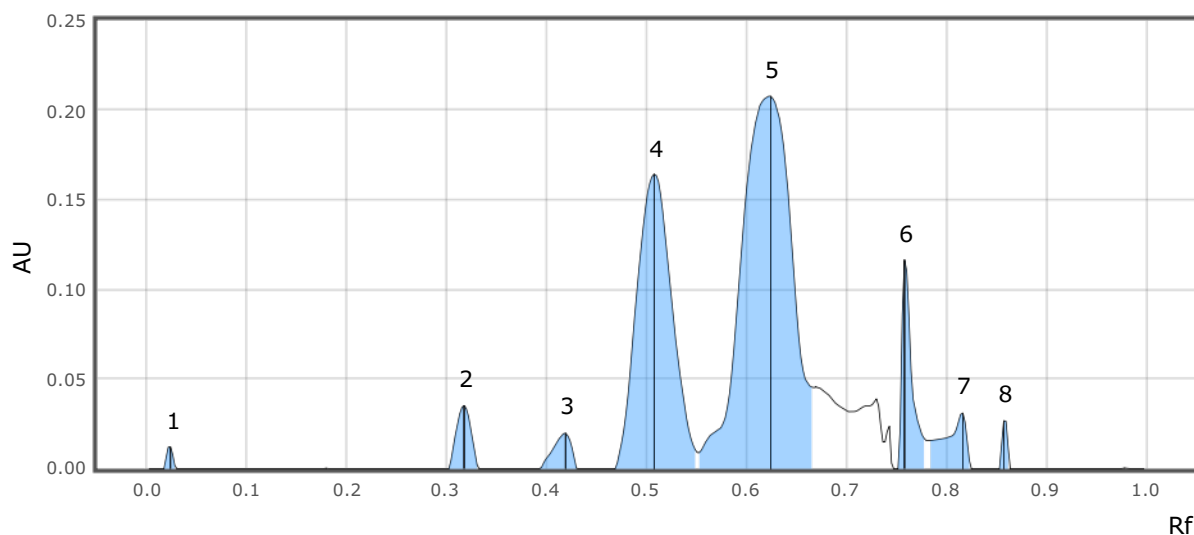
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.021	0.0214	3.13	0.030	0.0000	0.00019	0.70	No	
2	0.298	0.0000	0.315	0.0517	7.56	0.337	0.0000	0.00106	4.00	No	
3	0.382	0.0000	0.419	0.0288	4.20	0.434	0.0000	0.00090	3.41	No	
4	0.458	0.0000	0.508	0.1847	26.99	0.551	0.0210	0.00837	31.62	No	
5	0.551	0.0210	0.624	0.2171	31.74	0.667	0.0511	0.01369	51.75	No	9-THC
6	0.752	0.0000	0.760	0.1284	18.76	0.780	0.0124	0.00150	5.67	No	
7	0.786	0.0130	0.817	0.0284	4.14	0.825	0.0000	0.00062	2.33	No	
8	0.853	0.0000	0.858	0.0238	3.48	0.864	0.0000	0.00014	0.53	No	

Track 7:

Type	Sample
Vial ID	s4
Description	
Volume	2.0 µl



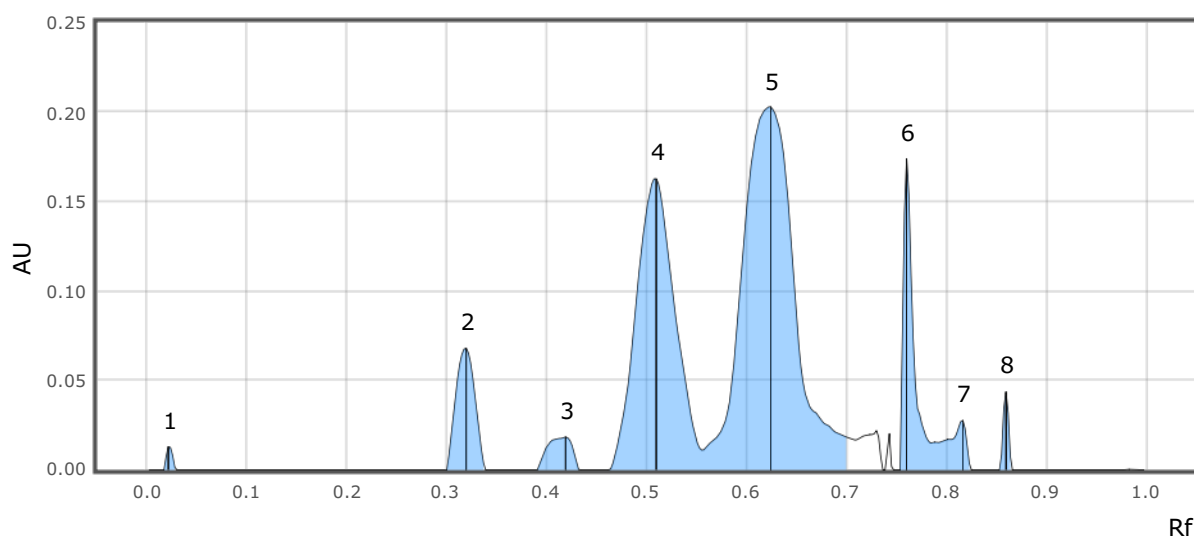
6DaT-sample run-9

visionCATS

Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.017	0.0000	0.023	0.0120	1.96	0.030	0.0000	0.00009	0.39	No	
2	0.302	0.0000	0.317	0.0352	5.74	0.333	0.0000	0.00059	2.65	No	
3	0.393	0.0000	0.419	0.0198	3.22	0.432	0.0000	0.00041	1.83	No	
4	0.469	0.0000	0.508	0.1641	26.78	0.551	0.0090	0.00668	29.93	No	
5	0.553	0.0090	0.624	0.2075	33.87	0.667	0.0452	0.01224	54.85	No	9-THC
6	0.752	0.0000	0.758	0.1164	18.99	0.780	0.0158	0.00138	6.20	No	
7	0.784	0.0156	0.817	0.0310	5.07	0.825	0.0000	0.00076	3.40	No	
8	0.853	0.0000	0.858	0.0267	4.36	0.864	0.0000	0.00017	0.75	No	

Track 8:

Type	Sample
Vial ID	s5
Description	
Volume	2.0 µl



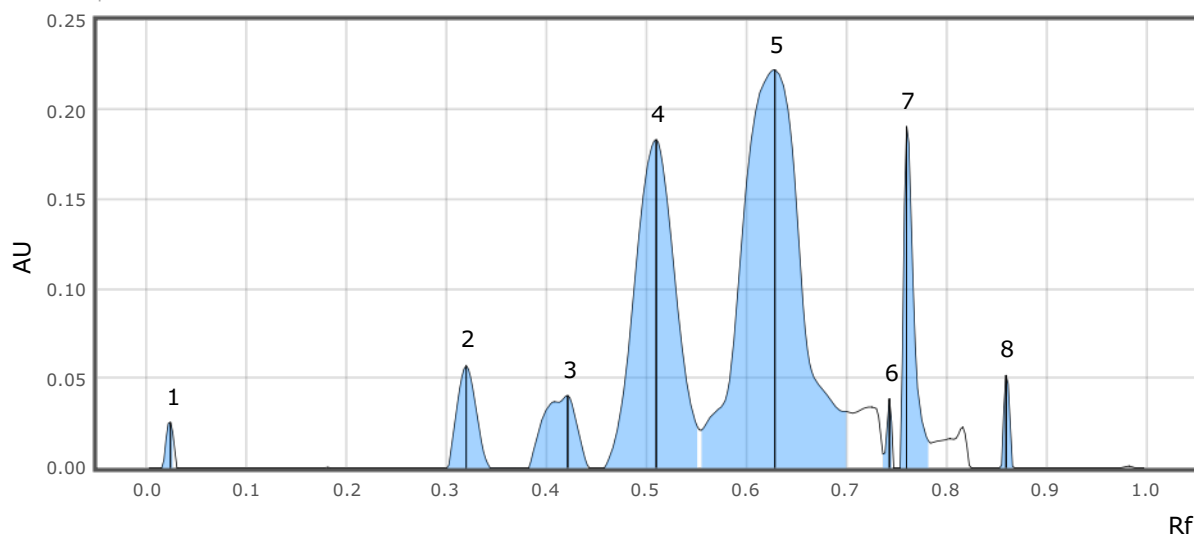
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.017	0.0000	0.021	0.0130	1.83	0.030	0.0000	0.00009	0.36	No	
2	0.300	0.0000	0.320	0.0679	9.57	0.339	0.0000	0.00149	6.01	No	
3	0.389	0.0000	0.419	0.0183	2.58	0.434	0.0000	0.00053	2.13	No	
4	0.462	0.0000	0.510	0.1625	22.91	0.555	0.0110	0.00725	29.22	No	
5	0.555	0.0110	0.624	0.2026	28.57	0.706	0.0170	0.01250	50.36	No	9-THC
6	0.754	0.0000	0.760	0.1737	24.50	0.784	0.0149	0.00199	8.02	No	
7	0.784	0.0149	0.817	0.0276	3.89	0.825	0.0000	0.00070	2.81	No	
8	0.853	0.0000	0.860	0.0435	6.14	0.866	0.0000	0.00027	1.09	No	

Track 9:

Type	Sample
Vial ID	s6
Description	
Volume	2.0 µl

6DaT-sample run-9

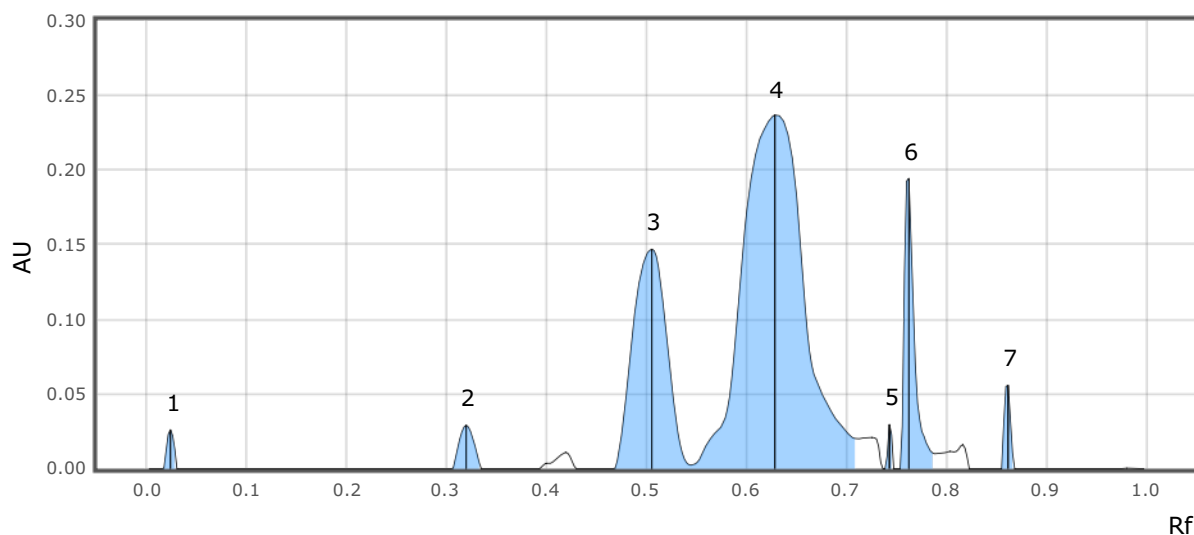
visionCATS



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.023	0.0255	3.15	0.030	0.0000	0.00022	0.73	No	
2	0.300	0.0000	0.320	0.0570	7.04	0.345	0.0000	0.00123	4.10	No	
3	0.382	0.0000	0.421	0.0404	4.99	0.443	0.0000	0.00153	5.11	No	
4	0.458	0.0000	0.510	0.1833	22.65	0.553	0.0212	0.00856	28.61	No	
5	0.555	0.0210	0.629	0.2222	27.46	0.704	0.0307	0.01556	52.00	No	9-THC
6	0.737	0.0077	0.743	0.0386	4.77	0.747	0.0000	0.00021	0.71	No	
7	0.754	0.0000	0.760	0.1905	23.54	0.784	0.0138	0.00228	7.61	No	
8	0.853	0.0000	0.860	0.0517	6.39	0.868	0.0000	0.00034	1.13	No	

Track 10:

Type	Sample
Vial ID	s7
Description	
Volume	2.0 µl



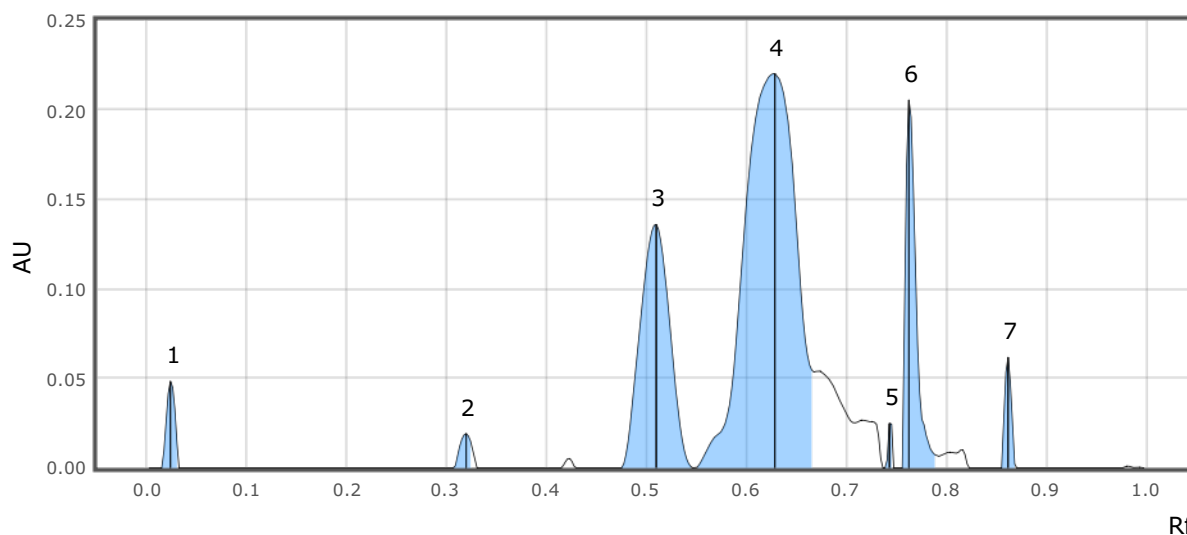
6DaT-sample run-9

visionCATS

Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.023	0.0261	3.63	0.030	0.0000	0.00021	0.80	No	
2	0.304	0.0000	0.320	0.0290	4.05	0.335	0.0000	0.00049	1.85	No	
3	0.467	0.0000	0.505	0.1468	20.45	0.544	0.0023	0.00574	21.84	No	CBN 9-THC
4	0.544	0.0023	0.629	0.2364	32.93	0.711	0.0200	0.01703	64.78	No	
5	0.739	0.0000	0.743	0.0296	4.12	0.747	0.0000	0.00013	0.50	No	
6	0.754	0.0000	0.763	0.1941	27.05	0.789	0.0100	0.00229	8.70	No	
7	0.856	0.0000	0.862	0.0558	7.77	0.868	0.0000	0.00040	1.54	No	

Track 11:

Type	Sample
Vial ID	s8
Description	
Volume	2.0 µl



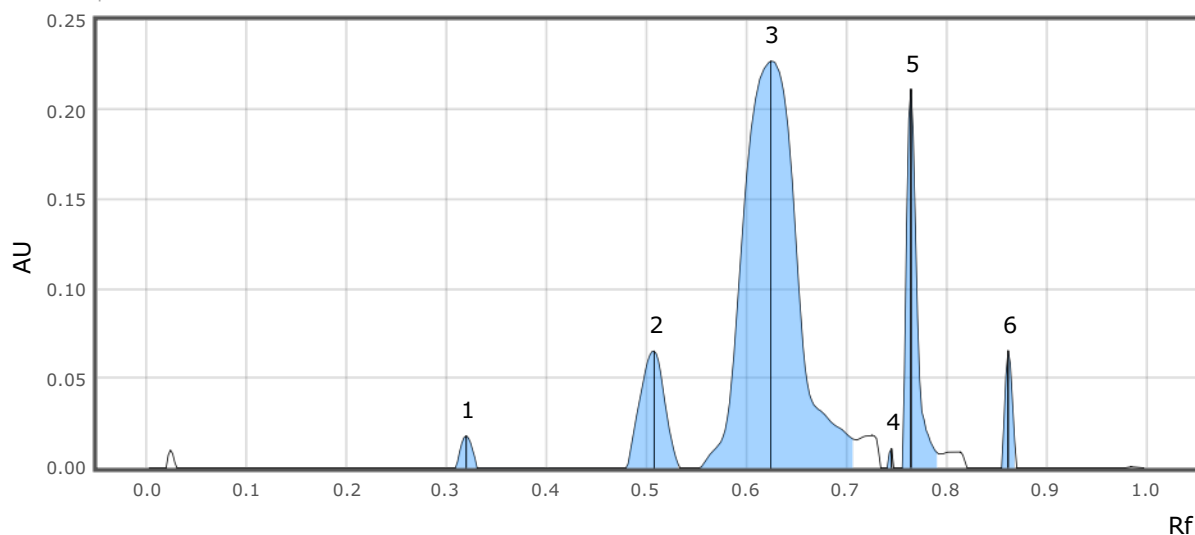
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.015	0.0000	0.023	0.0483	6.75	0.032	0.0000	0.00047	2.16	No	
2	0.307	0.0000	0.320	0.0191	2.67	0.330	0.0000	0.00026	1.21	No	
3	0.475	0.0000	0.510	0.1359	19.00	0.546	0.0000	0.00461	21.29	No	
4	0.549	0.0000	0.629	0.2201	30.77	0.667	0.0535	0.01323	61.12	No	9-THC
5	0.739	0.0000	0.743	0.0248	3.47	0.747	0.0000	0.00012	0.54	No	
6	0.756	0.0000	0.763	0.2054	28.71	0.793	0.0065	0.00250	11.55	No	
7	0.856	0.0000	0.862	0.0617	8.63	0.871	0.0000	0.00046	2.13	No	

Track 12:

Type	Sample
Vial ID	s9
Description	
Volume	2.0 µl

6DaT-sample run-9

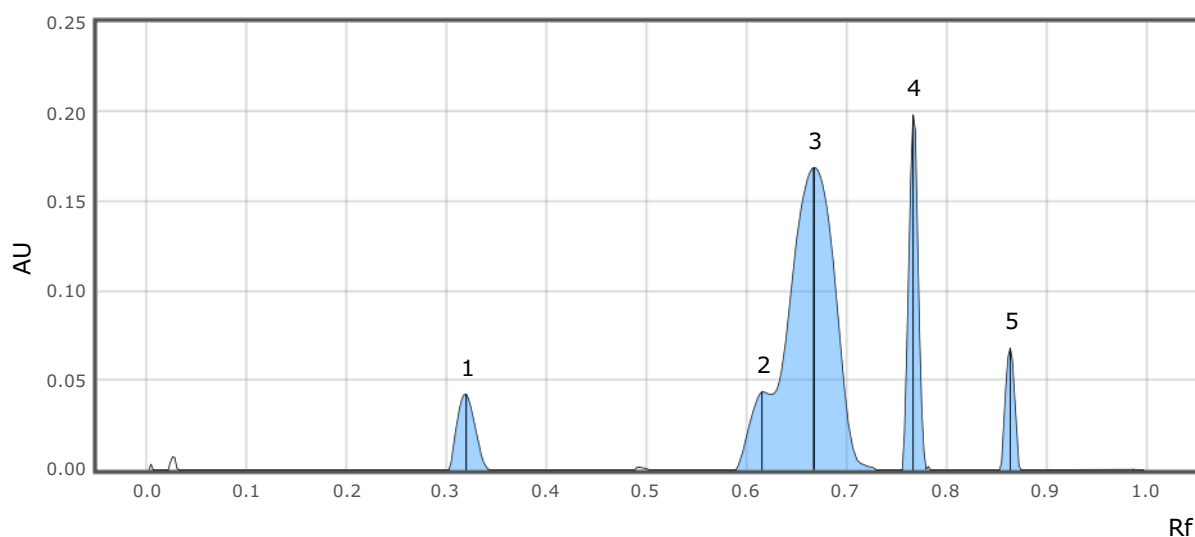
visionCATS



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.309	0.0000	0.320	0.0179	3.00	0.333	0.0000	0.00023	1.19	No	
2	0.479	0.0000	0.508	0.0652	10.91	0.533	0.0000	0.00184	9.47	No	
3	0.553	0.0000	0.624	0.2269	37.96	0.709	0.0156	0.01422	73.06	No	9-THC
4	0.741	0.0000	0.745	0.0107	1.79	0.747	0.0000	0.00004	0.21	No	
5	0.756	0.0000	0.765	0.2114	35.38	0.793	0.0077	0.00259	13.28	No	
6	0.856	0.0000	0.862	0.0655	10.95	0.871	0.0000	0.00054	2.80	No	

Track 13:

Type	Sample
Vial ID	s10
Description	
Volume	2.0 µl



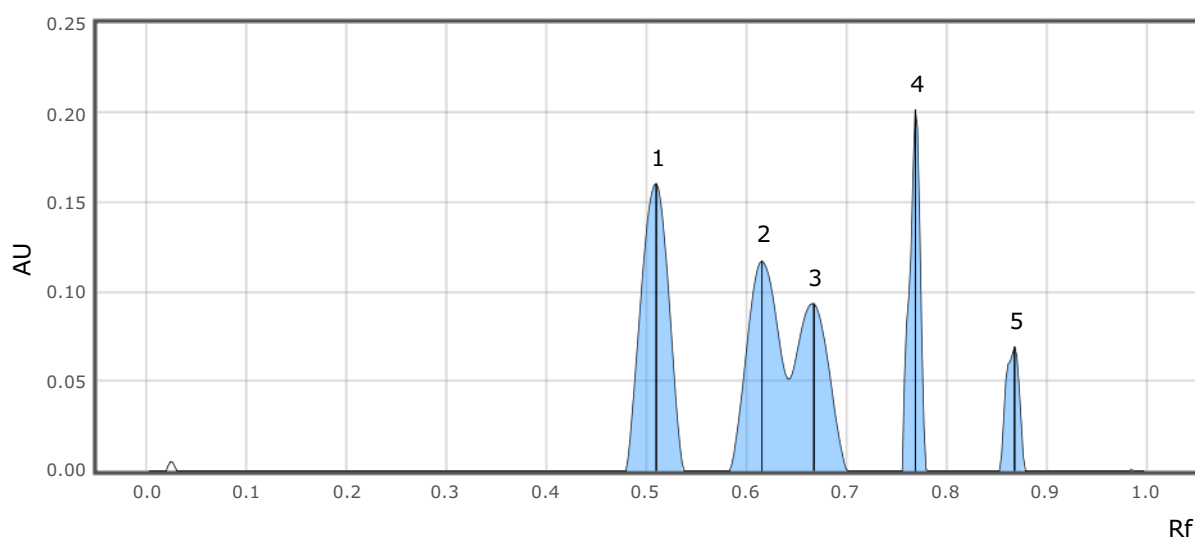
6DaT-sample run-9

visionCATS

Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.302	0.0000	0.320	0.0421	8.10	0.343	0.0000	0.00087	6.48	No	
2	0.592	0.0022	0.616	0.0435	8.36	0.626	0.0421	0.00106	7.90	Yes	9-THC
3	0.626	0.0421	0.667	0.1687	32.42	0.730	0.0000	0.00858	63.97	No	CBD
4	0.756	0.0000	0.767	0.1982	38.07	0.784	0.0000	0.00219	16.30	No	
5	0.853	0.0000	0.864	0.0679	13.04	0.875	0.0000	0.00072	5.35	No	

Track 14:

Type	Reference
Vial ID	250ug/mL mix
Description	250ug/mL
Volume	2.0 µl



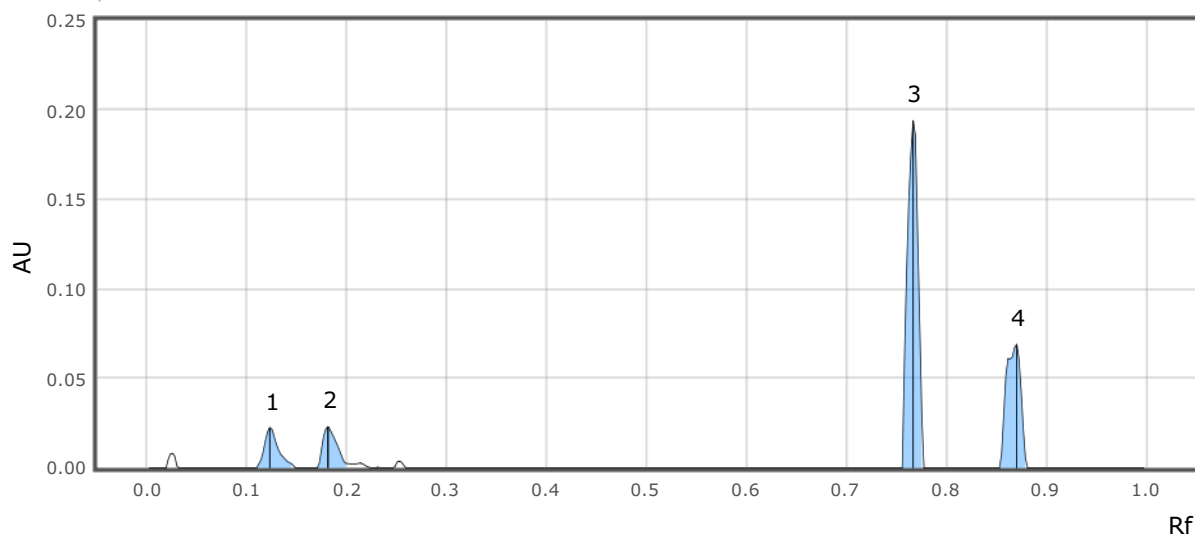
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.479	0.0000	0.510	0.1604	25.00	0.538	0.0000	0.00511	30.96	No	
2	0.583	0.0000	0.616	0.1171	18.25	0.642	0.0512	0.00427	25.90	No	9-THC
3	0.642	0.0512	0.667	0.0933	14.54	0.702	0.0000	0.00357	21.65	No	CBD
4	0.756	0.0000	0.769	0.2016	31.42	0.782	0.0000	0.00248	15.02	No	
5	0.853	0.0000	0.868	0.0692	10.79	0.879	0.0000	0.00107	6.46	No	

Track 15:

Type	Sample
Vial ID	MeOH blank
Description	MeOH Blank
Volume	2.0 µl

6DaT-sample run-9

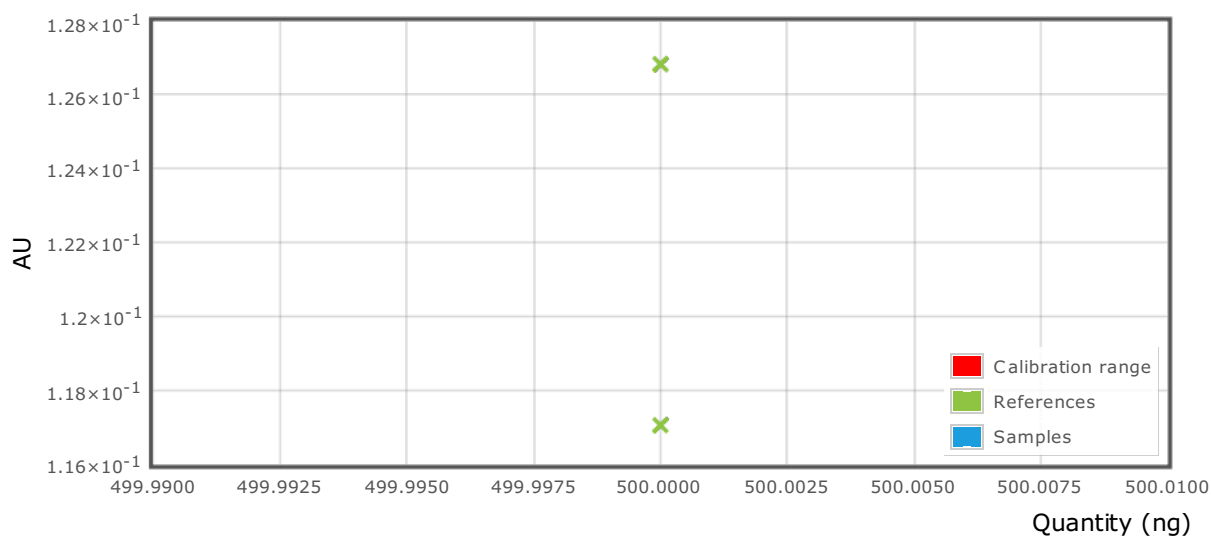
visionCATS



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.110	0.0000	0.123	0.0225	7.29	0.149	0.0000	0.00036	8.24	No	
2	0.170	0.0000	0.181	0.0230	7.46	0.207	0.0020	0.00039	8.91	No	
3	0.756	0.0000	0.767	0.1938	62.87	0.778	0.0000	0.00241	55.79	No	
4	0.853	0.0000	0.871	0.0690	22.38	0.881	0.0000	0.00117	27.06	No	

Calibration results:

Height calibration for substance 9-THC @ RT White:

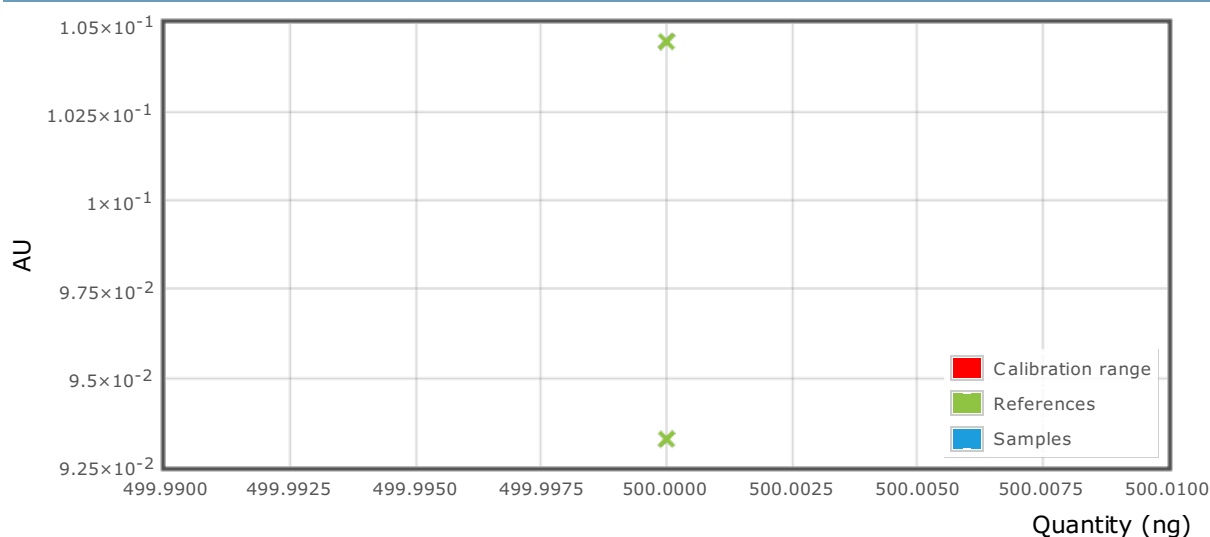


6DaT-sample run-9

visionCATS

Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	2
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBD @ RT White:

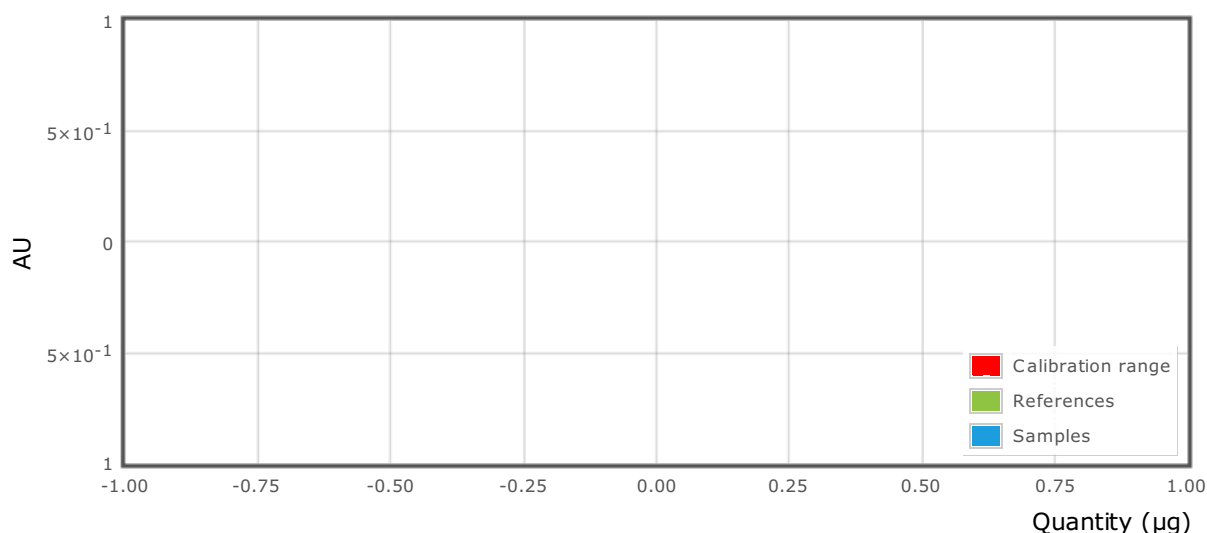


Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	2
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBN @ RT White:

6DaT-sample run-9

visionCATS



Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	0
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	There wasn't any reference application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.

Results:

Substance having no available results		
	9-THC	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)
	CBN	There wasn't any reference application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBD	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

A track marked with  means: this result is outside the regression range given by the reference assignments, but is included in the results because it is in the allowed range deviation.

Analyst:

Reviewer: