

Some general shortcuts and tips

Download data from: https://archive.eso.org/eso/eso_archive_main.html

> Select **Science/Spectrum and specify the night**

> Download all the observed files with the Cosimo password (ZIP file)

> Create a local dedicated folder in the pessto pipeline (then copy it over dropbox to use ASTRODASH in the other computer, in my case)

> Once put in a dedicated folder do

```
uncompress *.z
```

> Create base folder, e.g.: Jan 15

> under it create folders : **class, fups, all.**

In all:

> Do the following : `gethead object date-obs exptime ra dec *.fits`

In my case it doesn't work, so I take the table from the ESO website, open it in VScode and remove all the columns which are not useful.

> We perform the quick reductions in the "all" folder (where all files exist - standards etc...)

> To reduce: `pesstofastspec -i -C [fits-filename]`

Once done, do the classification on the other computer (crosscheck with catalogues and look at object pages)

After classifications are done, you can run the PESSTOWISE scripts to upload to WISEREP:

(for classification)

```
ls -1 *_f.fits > pub_spectra.list
PESSTOWISE pub_spectra.list
```

(for followup)

```
ls -1 *_f.fits > priv_spectra.list
PESSTOWISE priv_spectra.list
```

You can then Write the astronote. Don't forget the relevant people to add:

TAT members

Katja Matilainen (UTU), Stan Barmentlo (Stockholm), Michael Fulton (QUB)

People who Helped

Iair Arcavi (TAU), Jesper Sollerman (OKC), Joel Johansson and Luca Izzo (INAF)

S. Mohsen, N. Shitrit (TAU), T. Moore (QUB), R.J. Bruch (TAU), K. Matilainen (UTU), S. Barmentlo (Stockholm), M. Fulton (QUB), I. Arcavi (TAU), J. Sollerman, J. Johansson (OKC), L. Izzo (INAF), E. Zimmerman (WIS), J. Tonry, L. Denneau, H. Weiland, A. Lawrence, R. Siverd (IfA, University of Hawaii), N. Erasmus, W. Koorts (South African Astronomical Observatory), A. Jordan, V. Suc (UAI, Obstech), S. J. Smartt (Oxford/QUB), K. W. Smith, S. Srivastav, M. Fulton, M. McCollum, J. Weston (QUB), L. Shingles (GSI/QUB), L. Rhodes (Oxford), J. Sommer (LMU/QUB), A. Rest (STScl), T.-W. Chen (NCU), C. Stubbs (Harvard), K. C. Chambers, M. Huber, A. Schultz, T. de Boer, J. Bulger, J. Fairlamb, C.-C. Lin, T. Lowe, E. Magnier, P. Minguez, R. J. Wainscoat, H. Gao (IfA, Hawaii), J. Anderson (ESO), T.-W. Chen (NCU), M. Gromadzki (Warsaw), C. Inserra (Cardiff), E. Kankare (Turku), T. Müller Bravo (ICE), M. Nicholl (QUB), O. Yaron (Weizmann), D. Young (QUB)

Also add Astrodash: ASTRODASH (Muthukrishna 2019 [2019ApJ...885...85M](#))

SEPTEMBER 1

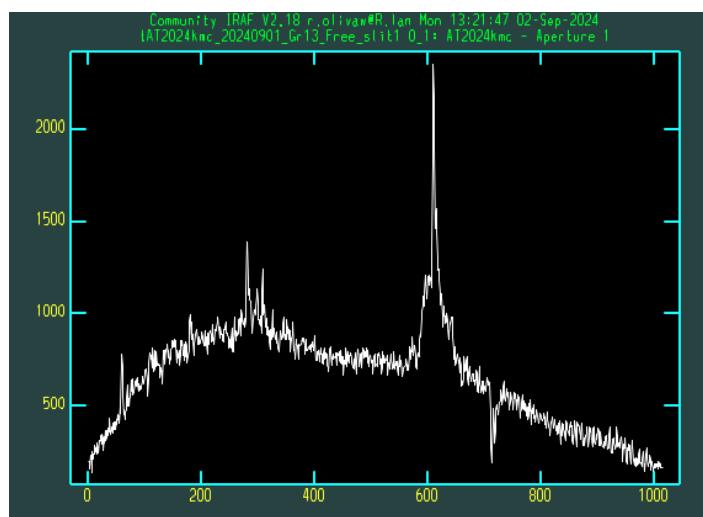
CLASSIFICATIONS

NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024KMC	-	astrodash	SN Ia-CSM	0.07
AT2024SVI	-	astrodash	SN Ia	0.045
AT2024RSC	-	astrodash	SN Ia	0.1
AT2024SER	-	astrodash	SN Ia	0.1
AT2024TVB	REDSHIFT FROM NED (SLS) z=0.027456	-	SN	0.027
AT2024TVG	REDSHIFT FROM NED, z=0.0267	-	SN	0.026
AT2024SOL	-	astrodash	SN Ia	0.05
AT2024MVZ	-	NGSF	TDE	0.08
AT2024SJD	-	astrodash	SN Ia	0.1
AT2024RMJ	-	astrodash	SN Ic-BL	0.16

Redshift from template matching with Astrodash.

Redshift from template matching with NGSF.

AT2024KMC EFOSC.2024-09-02T02:29:21.825 DONE



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	IIn	42 to 46	0.0777	0.8025077
2	IIP	2 to 6	0.0799	0.1851485
3	Ibn	42 to 46	0.2002	0.012252463
4	Ia-csm	46 to 50	0.0733	8.944546e-05
5	Ibn	38 to 42	0.2002	1.1788809e-06

Best Match

IIn 42 to 46

Redshift: 0.0777 ± 0.0068

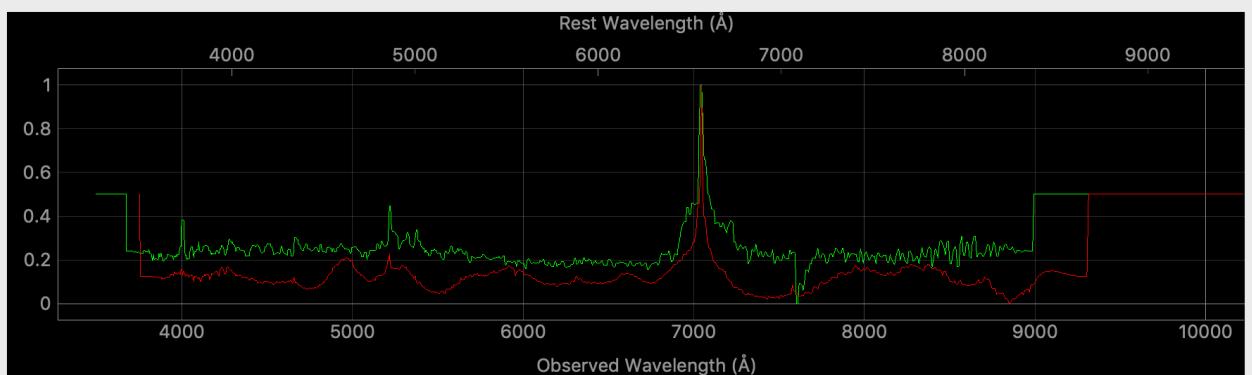
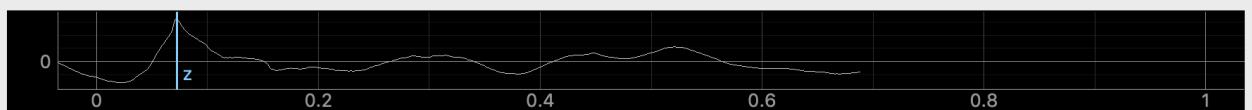
Softmax: 80.25%

Good rlap: 13.24 Unreliable matches

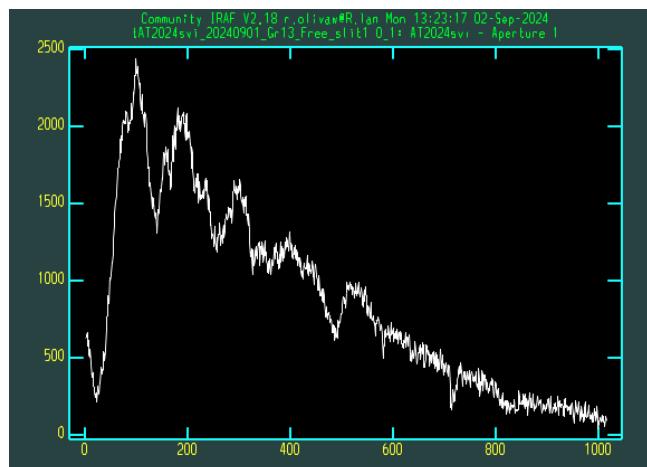
Analyse selection

Plot Template Ia-csm ▾ 46 to 50 ▾ No Host ▾ Host Fraction 0%

sn05gj_bsnip.lnw_48.113_No Host rlap: 11.49 < > Redshift 0.073



AT2024SVI EFOSC.2024-09-02T03:25:17.742 DONE



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	Ia-91T	-6 to -2	0.0376	0.9971366
2	Ia-91T	-2 to 2	0.0334	0.002849788
3	Ia-norm	-10 to -6	0.0451	9.494452e-06
4	Ia-91T	-10 to -6	0.0419	3.806485e-06
5	Ia-norm	-6 to -2	0.0397	3.9000972e-07

Best Match

Ia-91T -14 to 6

Redshift: 0.0376 ± 0.1329

Softmax: 100.0%

Low rlap: 4.6 Reliable matches

Analyse selection

Plot Template Ia-norm

-10 to -6

No Host

Host Fraction 0%

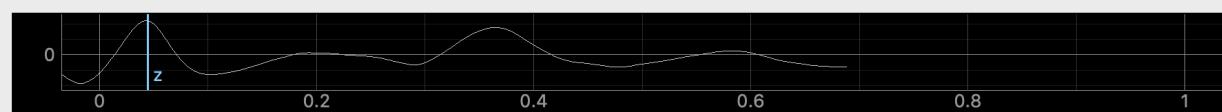
sn99dk_bsnip.lnw_-6.92_No Host

rlap: 4.98

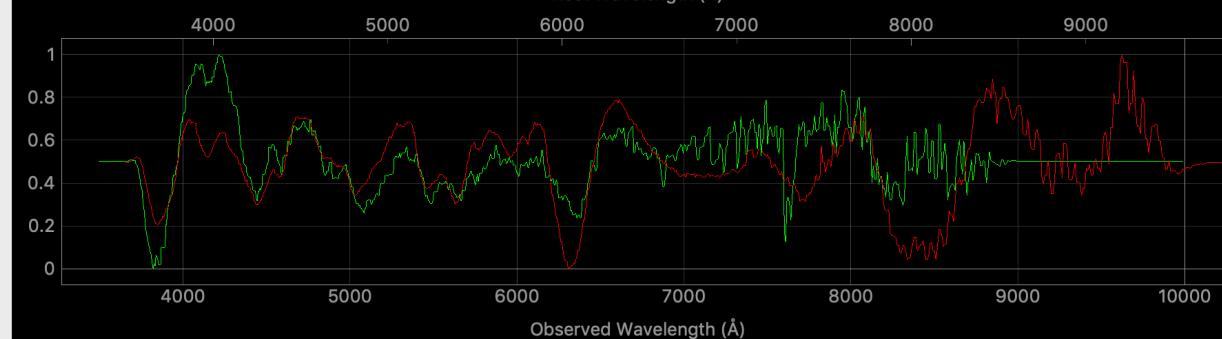


Redshift

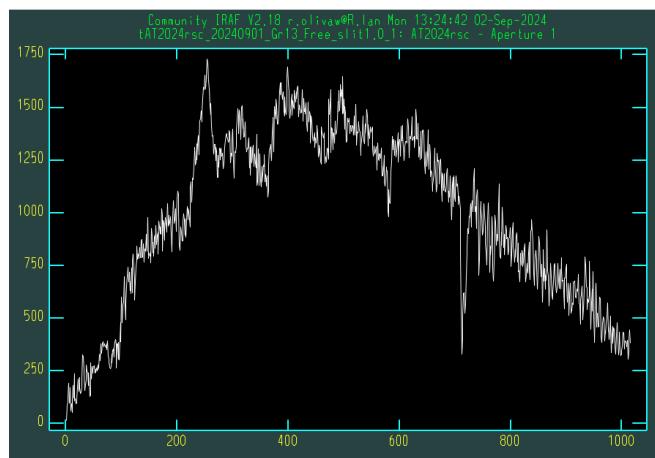
0.045



Rest Wavelength (Å)



AT2024RSC EFOSC.2024-09-02T03:45:09.455 DONE



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	Ia-norm	10 to 14	0.1068	0.5058583
2	Ia-91T	14 to 18	0.1023	0.26027337
3	Ia-norm	14 to 18	0.1034	0.22139055
4	Ic-norm	2 to 6	0.1023	0.0099527305
5	Ib-norm	-2 to 2	0.1012	0.0013738312

Best Match

Ia 10 to 18

Redshift: 0.1068 ± 0.1889

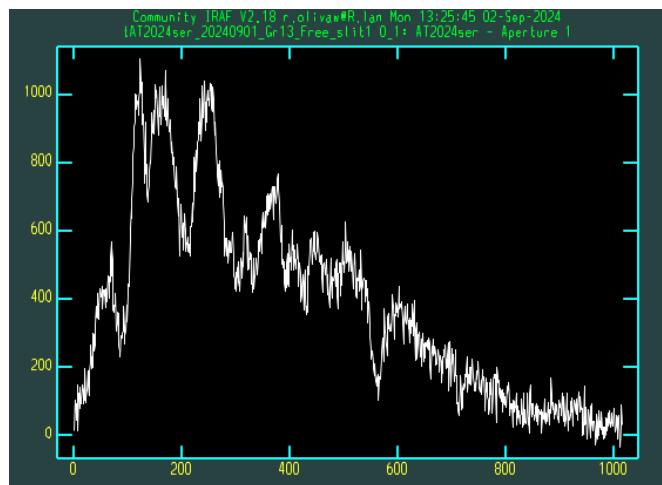
Softmax: 98.75%

Low rlap: 1.59 **Reliable matches**

Analyse selection



AT2024SER EFOSC.2024-09-02T04:11:41.209 DONE



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	Ia-91T	6 to 10	0.1034	0.82355803
2	Ia-norm	2 to 6	0.1068	0.11299225
3	Ia-norm	6 to 10	0.1057	0.05021485
4	Ia-pec	2 to 6	0.0944	0.009185798
5	Ic-norm	-10 to -6	0.1263	0.0009811105

Best Match

Ia 2 to 10

Redshift: 0.1034 ± 0.1264

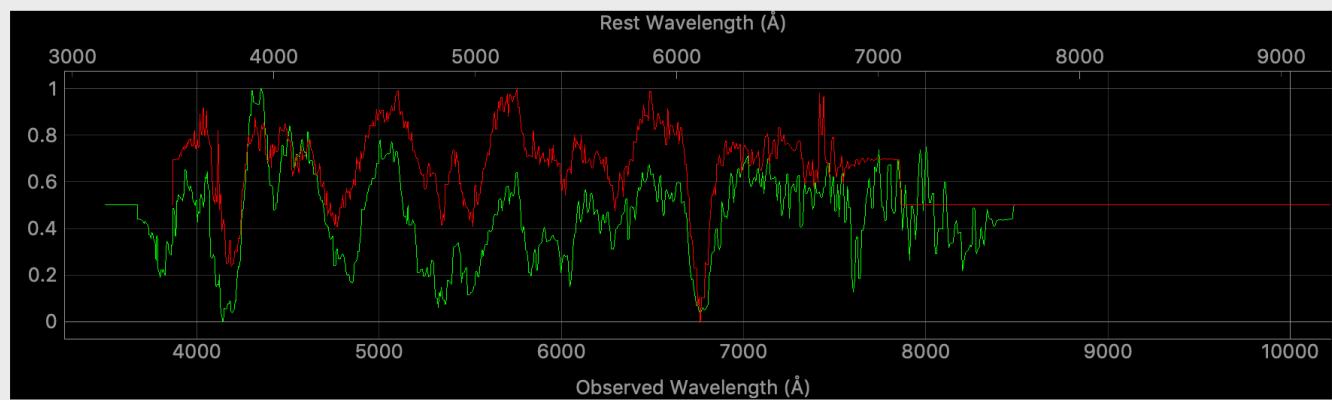
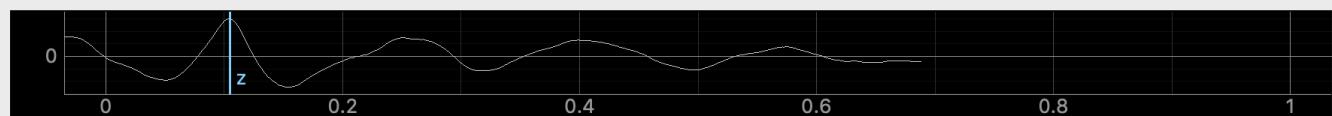
Softmax: 99.6%

Good rlap: 7.88 Reliable matches

Analyse selection

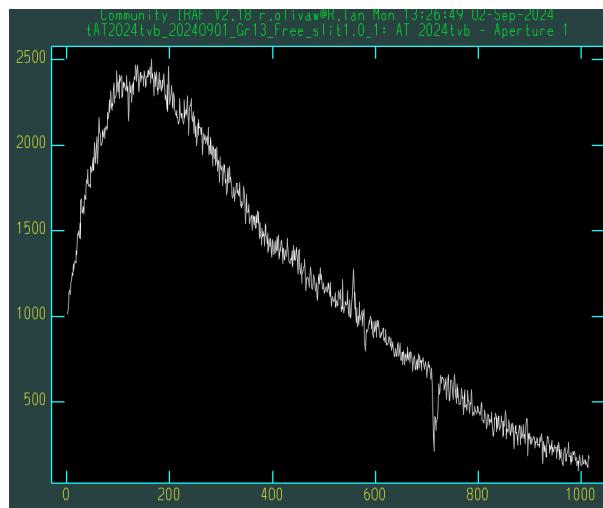
Plot Template Ia-norm ↗ 6 to 10 ↗ No Host ↗ Host Fraction 0%

sn2005eu.lnw_8.3_No Host rlap: 13.46 < > Redshift 0.106



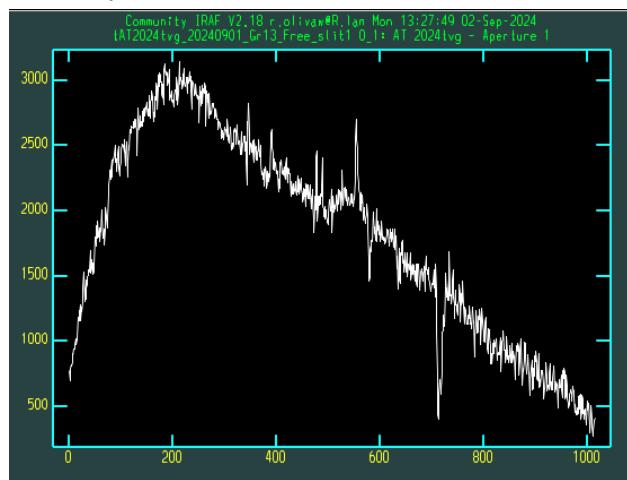
AT2024TVB EFOSC.2024-09-02T04:46:08.115 DONE

No conclusive match for a blue continuum, but there is a known redshift from the host

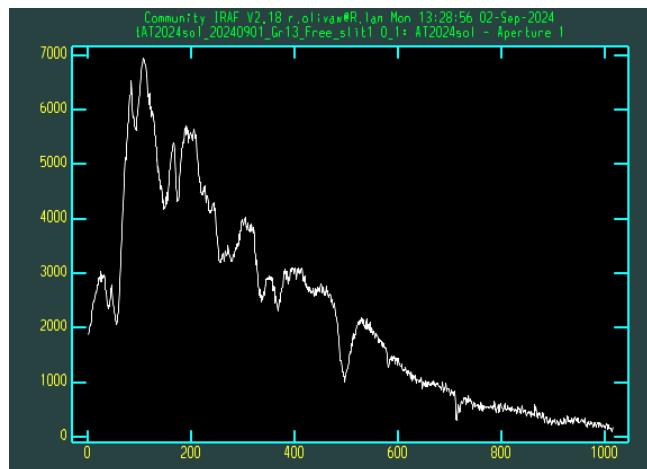


AT2024TVG EFOSC.2024-09-02T07:03:54.797 DONE

No conclusive match for a blue continuum, but there is a known redshift from the host. I would try a SN IIIn, need to use NGSF



AT2024SOL EFOSC.2024-09-02T07:26:23.119 DONE



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	Ia-91T	-2 to 2	0.0461	0.81815374
2	Ia-91T	-6 to -2	0.0494	0.11447084
3	Ia-norm	-6 to -2	0.0515	0.04190187
4	Ia-norm	-2 to 2	0.0483	0.020878125
5	Ia-norm	2 to 6	0.0472	0.0025484755

Best Match

Ia-91T -14 to 6

Redshift: 0.0461 ± 0.003

Softmax: 100.0%

Good rlap: 10.04 Reliable matches

Analyse selection

Plot Template Ia-norm

-6 to -2

No Host

Host Fraction 0%

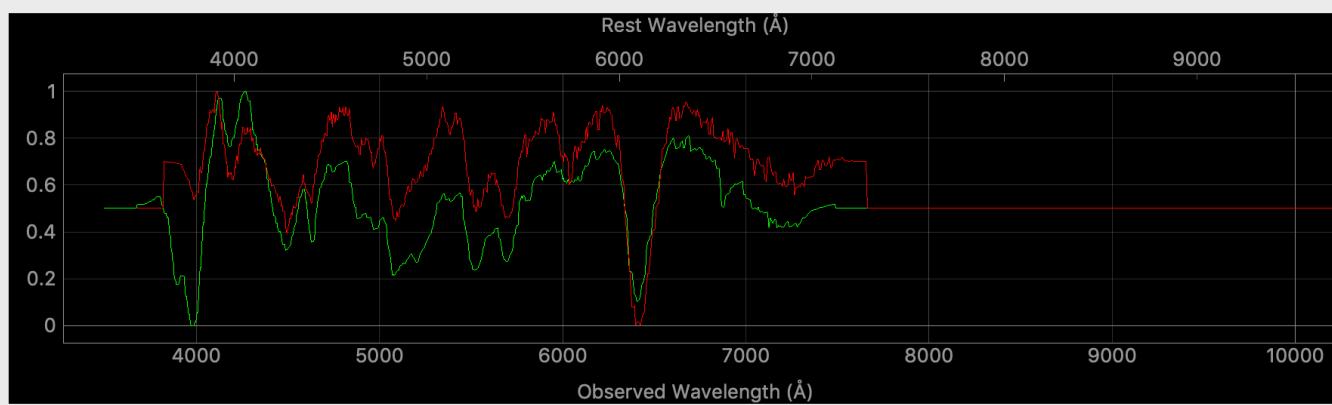
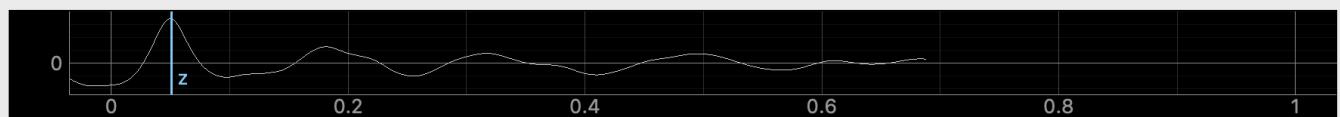
sn2003it.lnw_-3.2_No Host

rlap: 9.77

< >

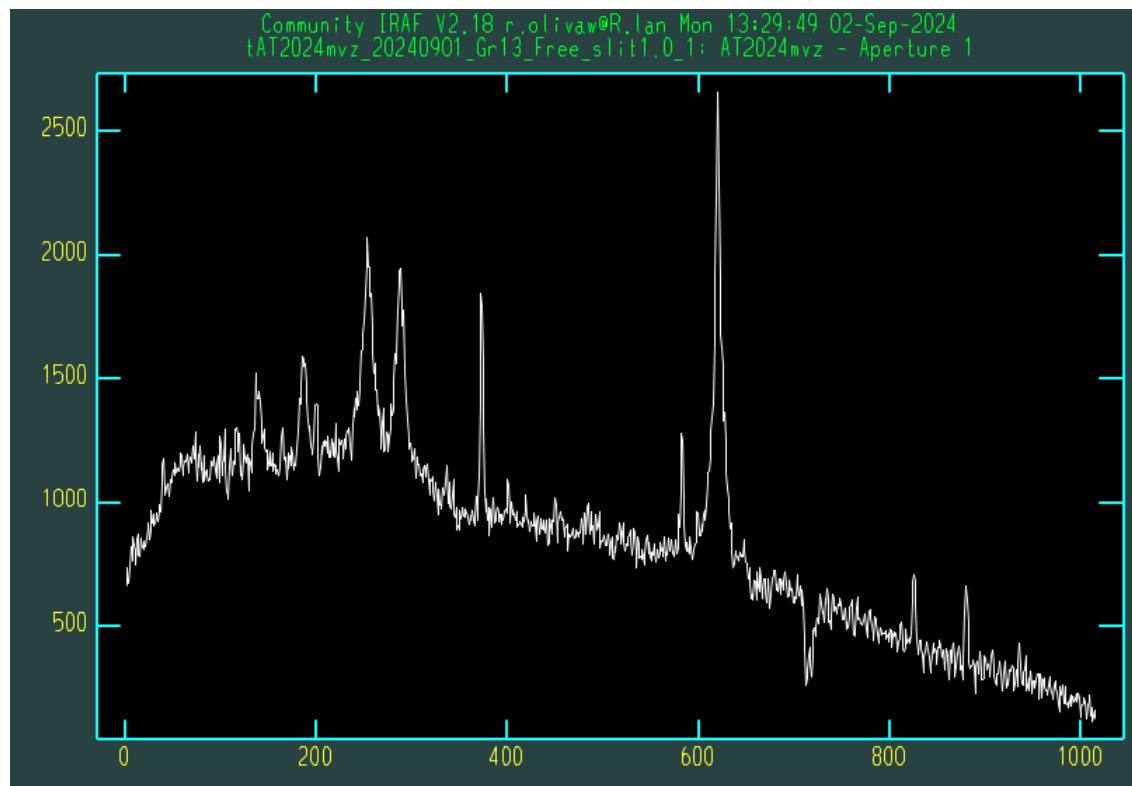
Redshift 0.051

Host Fraction 0%

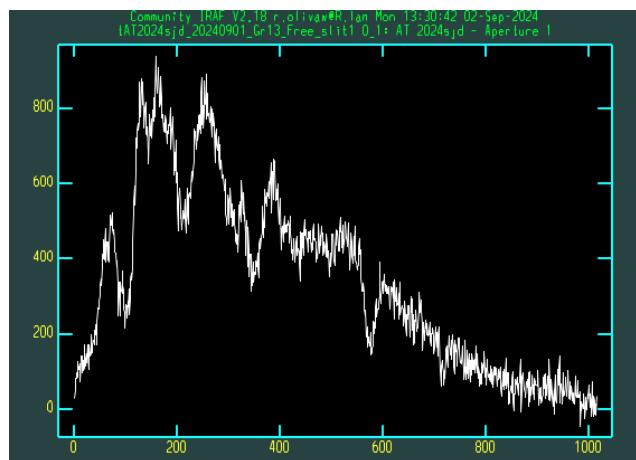


AT2024MVZ EFOSC.2024-09-02T08:05:36.494 DONE

Marking as SN with $z=0.08$, but no satisfactory match. Will check with NGSF. (Could it be a TDE?)



AT2024SJD EFOSC.2024-09-02T09:12:24.947 DONE'



Best Matches

No.	Type	Age	Redshift	Softmax Prob.
1	Ia-91T	-6 to -2	0.124	0.9209868
2	Ia-pec	2 to 6	0.1057	0.06962227
3	Ia-91T	2 to 6	0.1205	0.0035349247
4	Ia-91T	6 to 10	0.1182	0.0026263015
5	Ic-pec	-6 to -2	0.1298	0.0006113498

Best Match

Ia-91T -6 to 10

Redshift: 0.124 ± 0.105

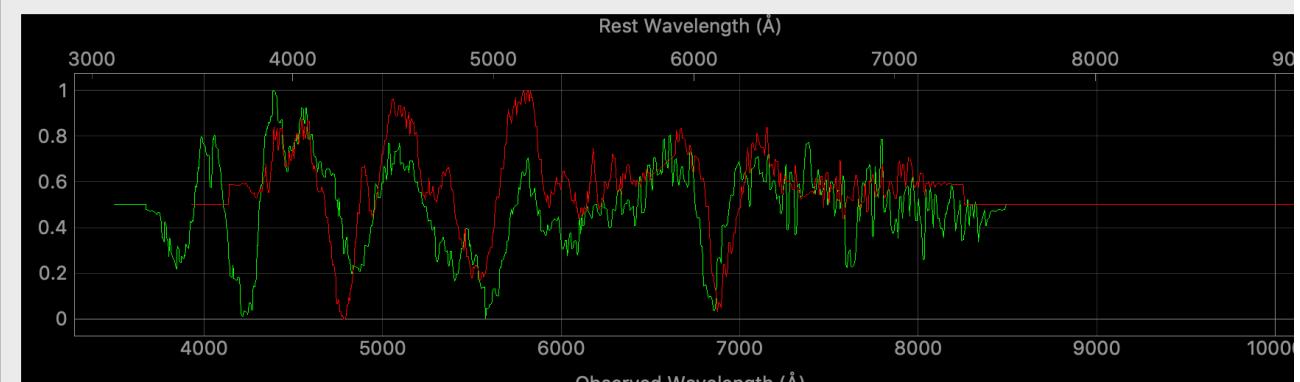
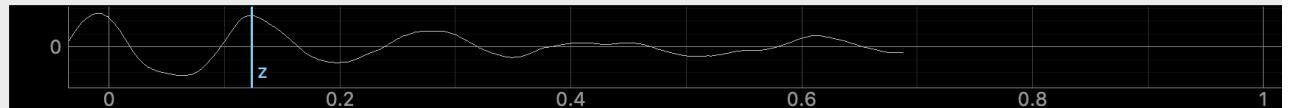
Softmax: 99.68%

Low rlap: 4.61 Reliable match

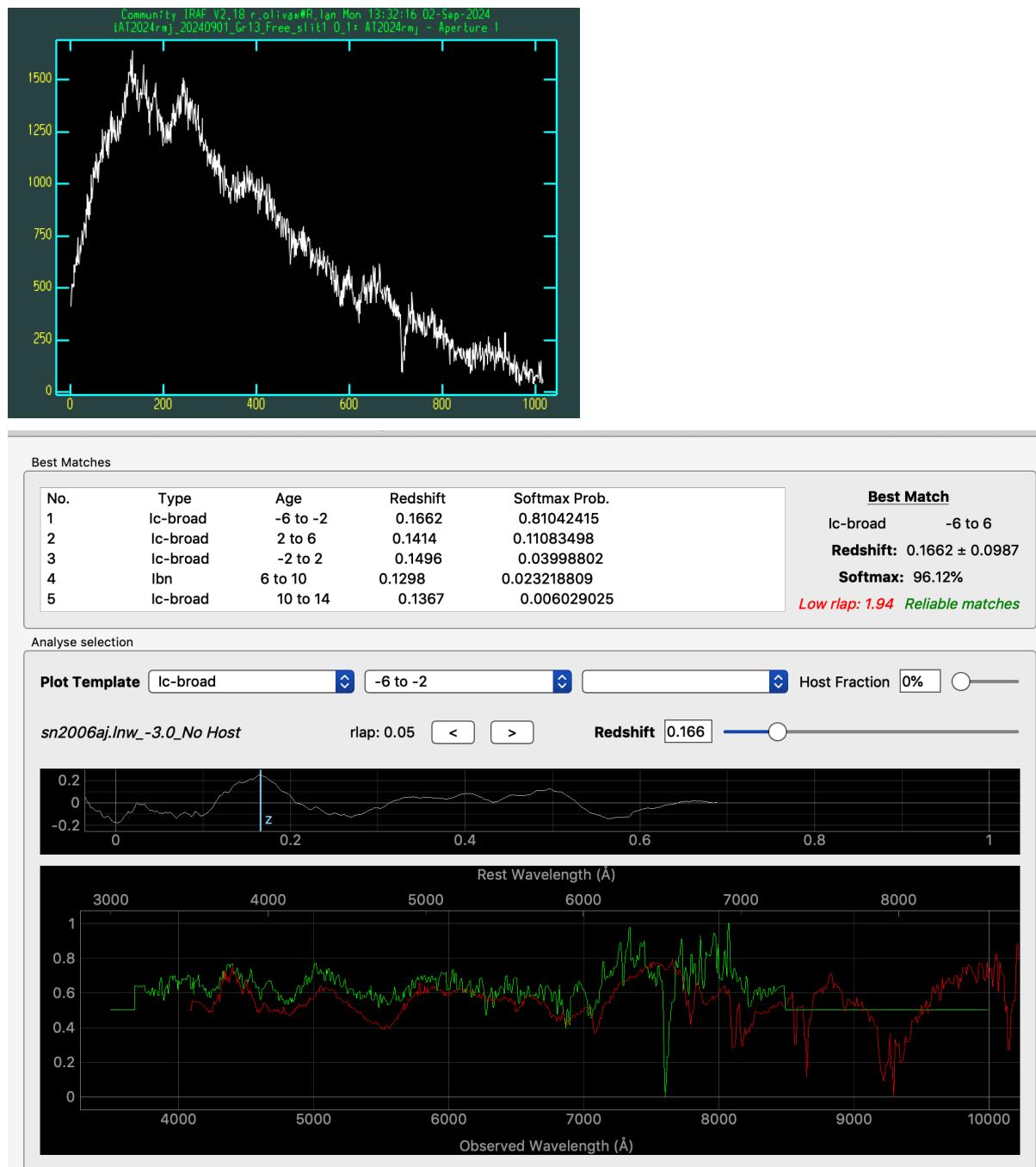
Analyse selection

Plot Template Ia-91T -6 to -2 No Host Host Fraction 0%

sn1999dq.lnw_-4.5_No Host rlap: 4.58 < > Redshift 0.124



AT2024RMJ EFOSC.2024-09-02T09:37:43.535 DONE



FOLLOW UPS

- SN2024JWX** EFOSC.2024-09-01T23:44:25.740 SLSN-I 0.13
- SN2024AMF** EFOSC.2024-09-02T00:39:15.712 SLSN-I 0.067
- AT2024GEP** EFOSC.2024-09-02T01:37:15.906 SN Ia-pec 0.012

SN2024QKW EFOSC.2024-09-02T05:03:18.117 SN Ia-pec 0.0461

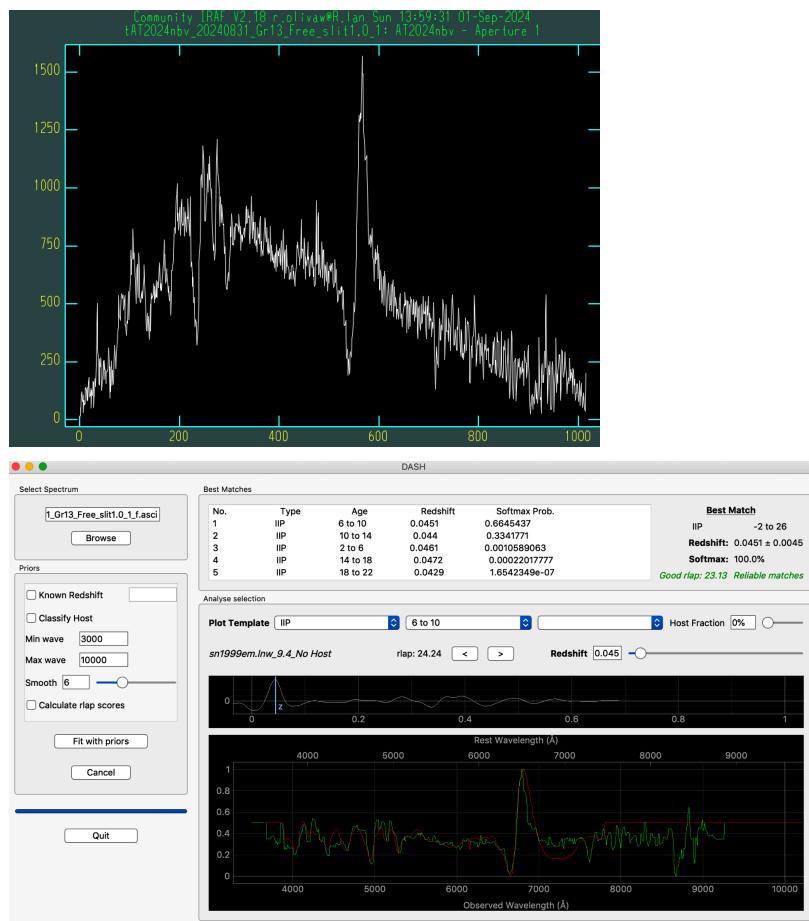
AT2019QIZ EFOSC.2024-09-02T08:28:57.946 TDE 0.0151

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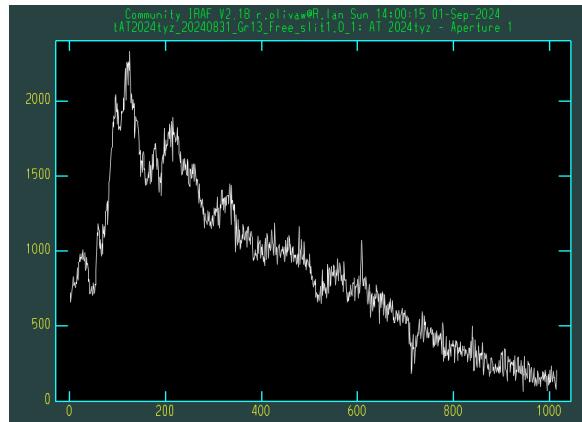
CLASSIFICATIONS

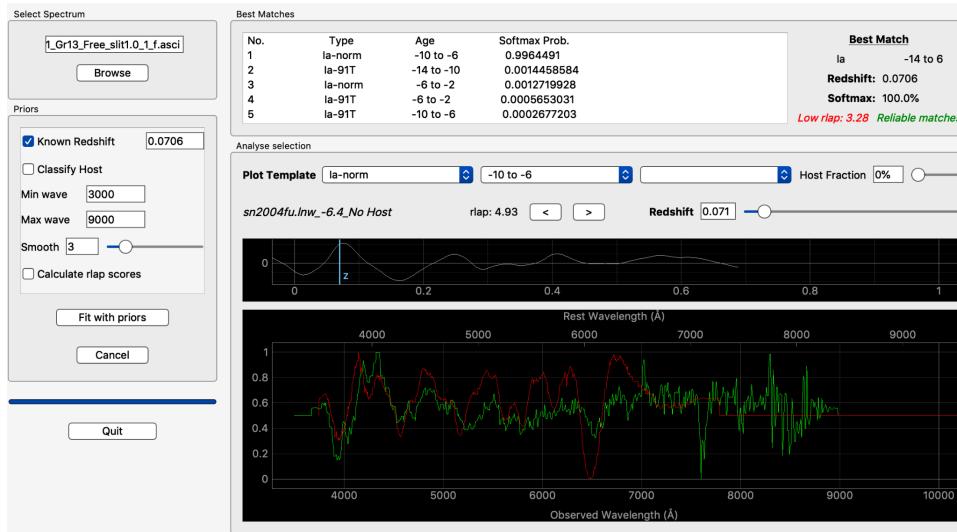
NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024NBV	-	astrodash	SN II	0.045
AT2024TYZ	FROM NED (SUN) z=0.0706	astrodash	SN Ia	0.0706
AT2024RMA	-	-	SN	0 (will check with galaxy lines)
AT2024SVO	Only PUN redshift	astrodash	SN Ib	0.05
AT2024QMH	-	astrodash	SN IIb	0.035
AT2024GVZ	-	astrodash	SN Ia-CSM	0.055
AT2024SJW	-	astrodash	SN Ib	0.05

AT2024NBV EFOSC.2024-09-01T02:31:16.771 DONE, looks like SN II

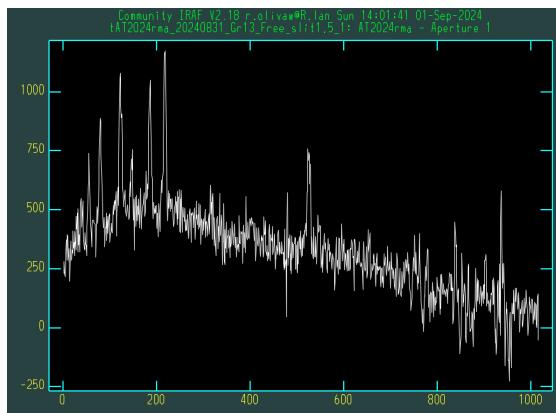


AT2024TYZ EFOSC.2024-09-01T02:52:19.201 DONE, SN Ia?





AT2024RMA EFOSC.2024-09-01T03:14:51.835 DONE, looks galactic or AGN?

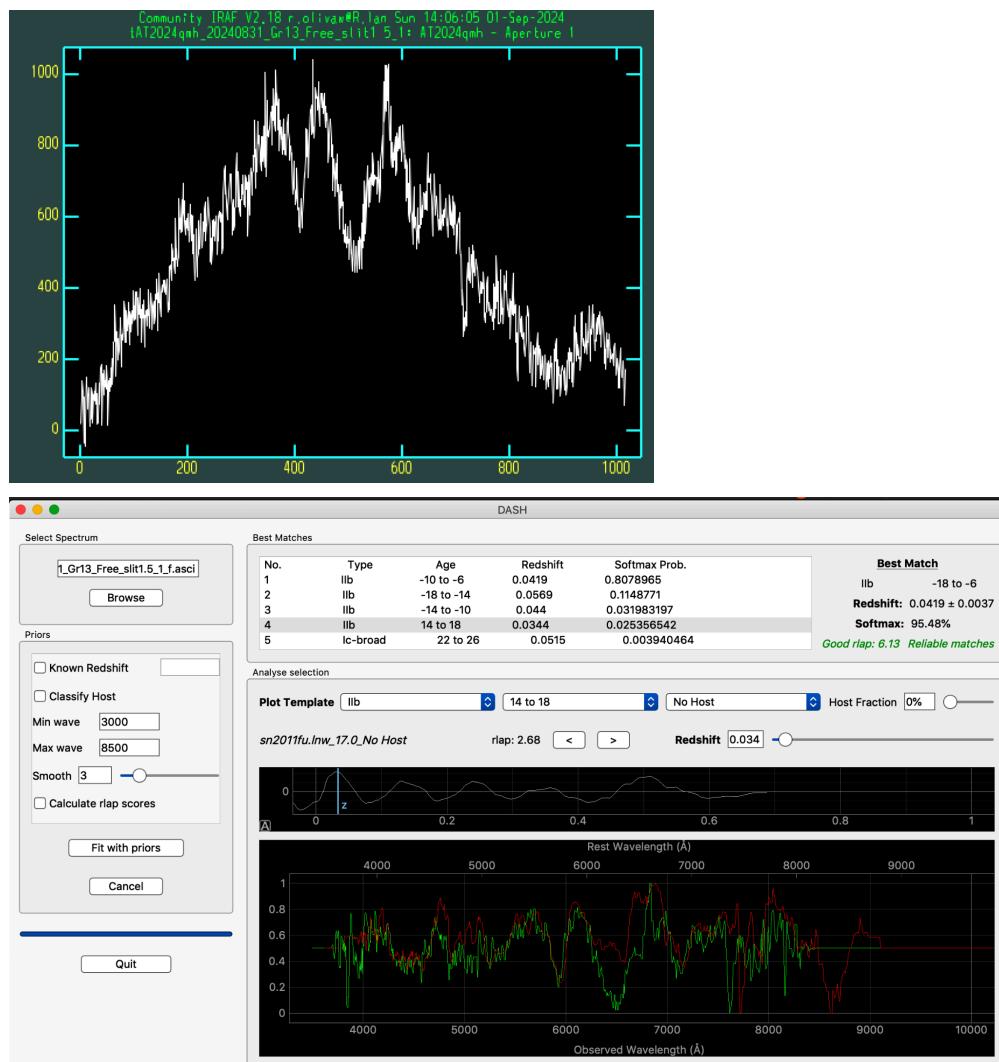


suspicious of the lines, nothing clear in classification. Will put as SN, but I don't trust it.

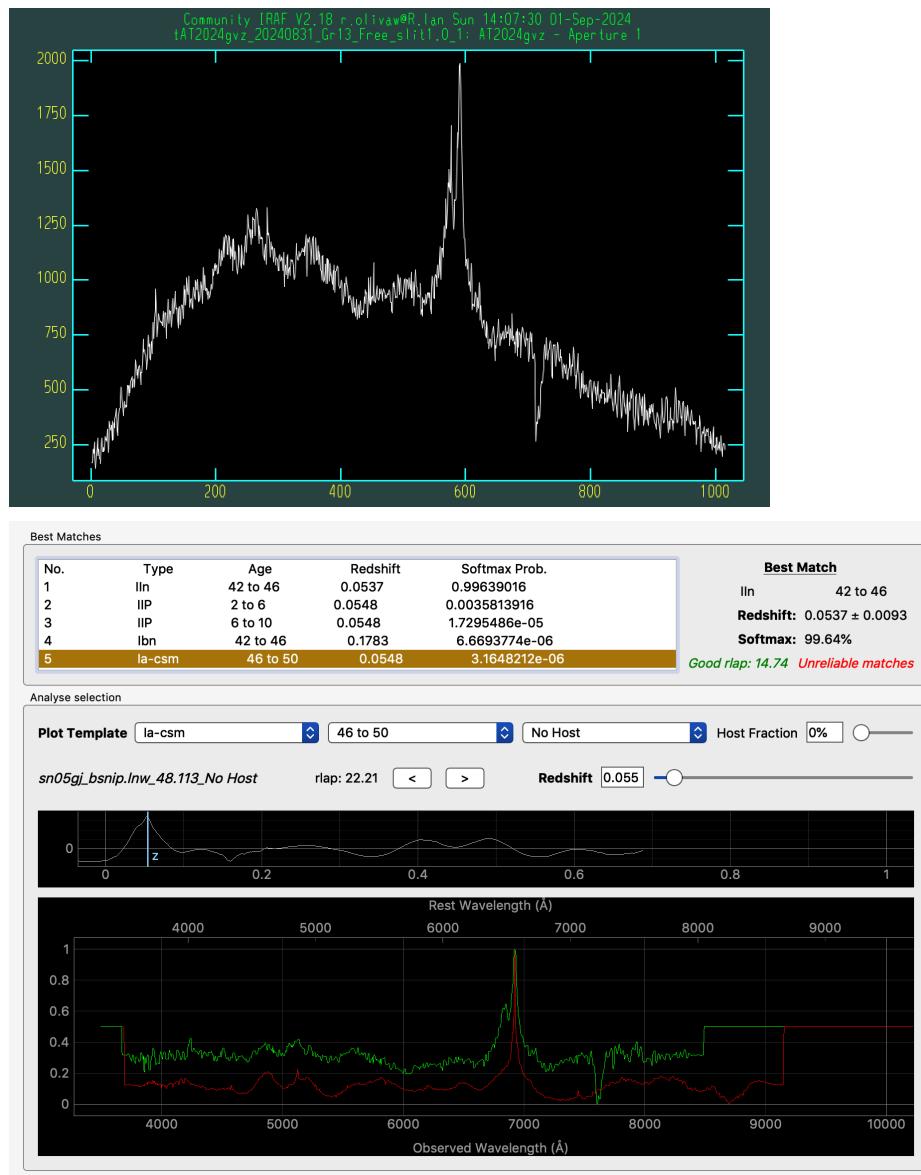
AT2024SVO EFOSC.2024-09-01T03:40:00.774 DONE, Ia? Ic?



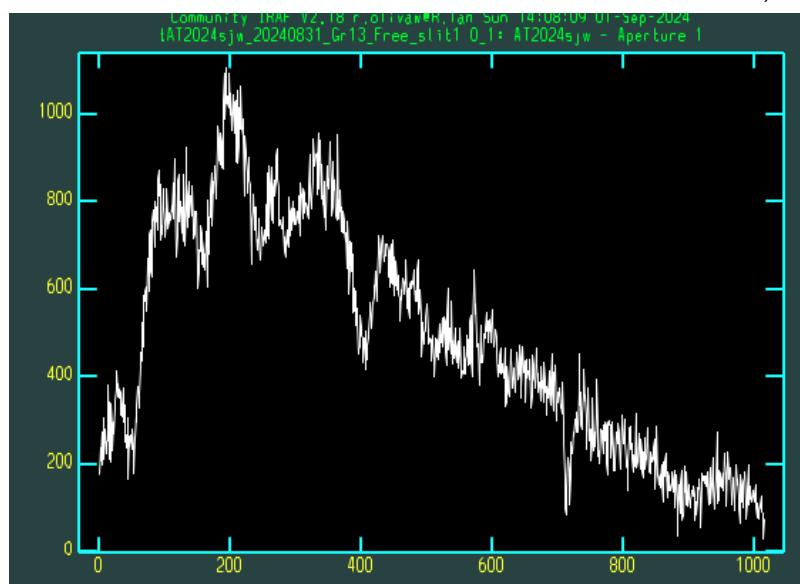
AT2024QMH EFOSC.2024-09-01T04:26:09.130 DONE



AT2024GVZ EFOSC.2024-09-01T09:31:09.693 DONE,



AT2024SJW EFOSC.2024-09-01T09:54:27.644 DONE,





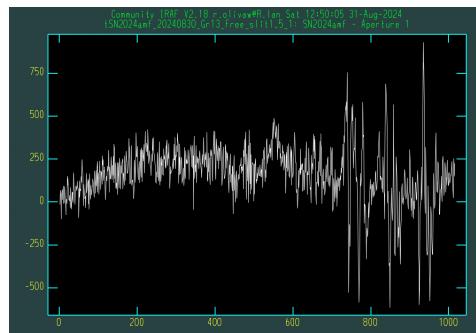
FOLLOW UPS

SN2024DDE	EFOSC.2024-08-31T23:45:25.079	DONE SLSN-I	0.054
SN2024AHR	EFOSC.2024-09-01T00:21:31.323	DONE SLSN-I	0.1
AT2024GEP	EFOSC.2024-09-01T01:18:32.123	DONE SN Ia-pec	0.012
SN2024QKW	EFOSC.2024-09-01T04:51:15.492	DONE SN Ia-pec	0.0461
SN2024RAF	EFOSC.2024-09-01T05:52:32.649	DONE SN II	0.06
SN2023VPE	EFOSC.2024-09-01T07:16:41.737	DONE SN Ia-SC	0.06
AT2019QIZ	EFOSC.2024-09-01T08:18:12.479	DONE TDE	0.0151
AT2019QIZ	EFOSC.2024-09-01T08:56:06.833	DONE TDE	0.0151

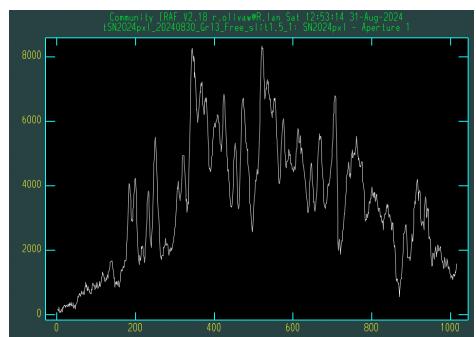
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FOLLOW UPS

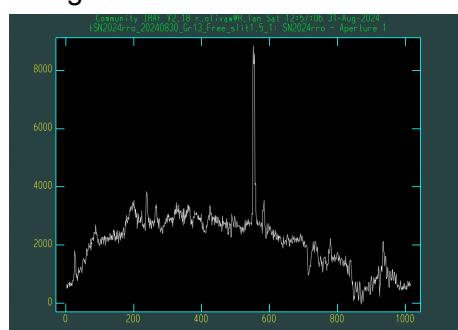
SN2024AMF EFOSC.2024-08-31T00:17:55.949 DONE, quite noisy though



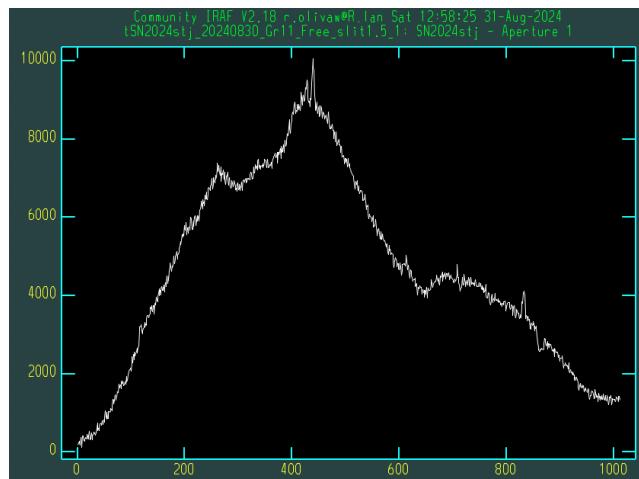
SN2024PXL EFOSC.2024-08-31T01:11:28.546 DONE, high SNR



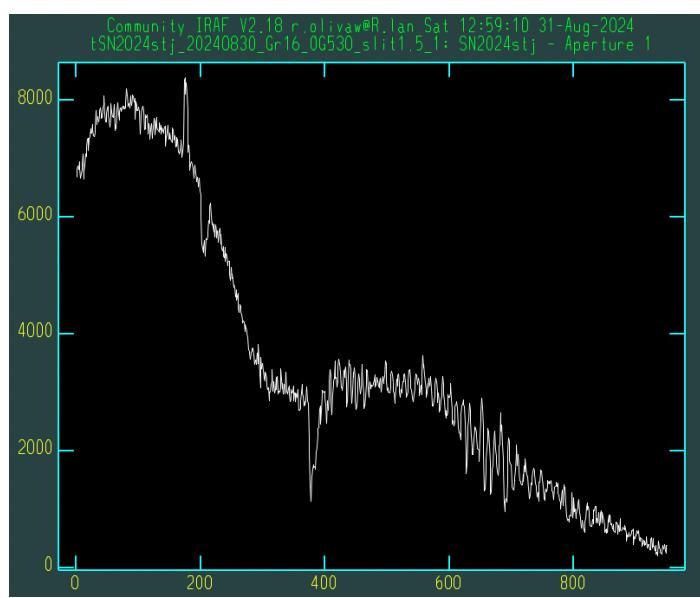
SN2024RRO EFOSC.2024-08-31T02:47:10.391 DONE, very bright galaxy in the background



SN2024STJ EFOSC.2024-08-31T04:50:43.947 DONE, stable weird beast



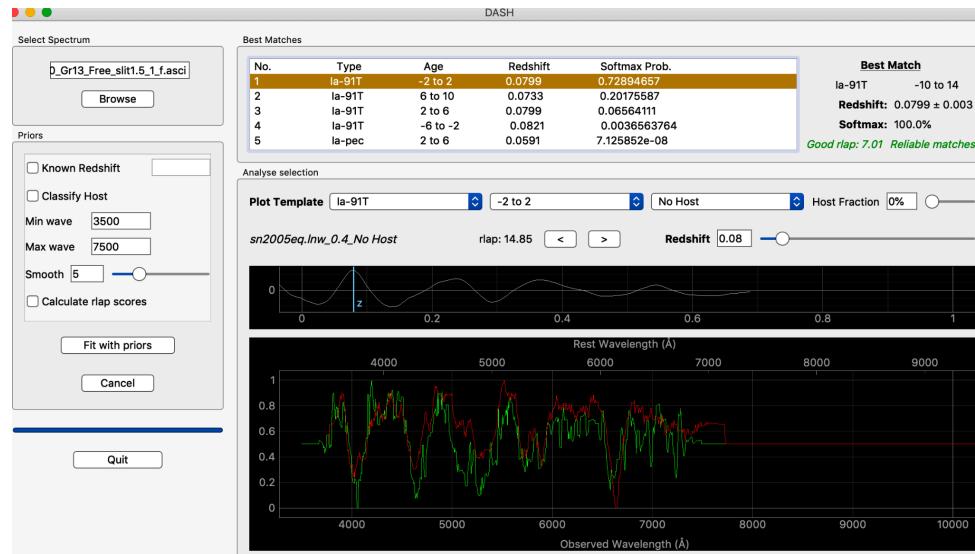
SN2024STJ EFOSC.2024-08-31T05:21:34.709



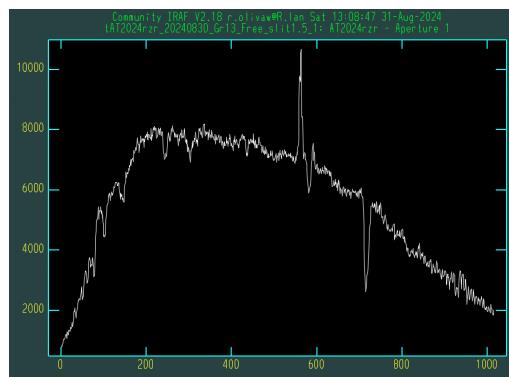
CLASSIFICATION

NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024SBL	-	astrodash	Ia-91T	0.079
AT2024RZR	FROM NED (SUN) z=0.031	-	SN	0.031
AT2024SNJ	FROM NED (PUN) z=0.082	astrodash	SN Ia	0.08
AT2024QEF	-	-	SN	0
AT2024NRW	-	astrodash	SN Ic-BL	0.24
AT2024SVK		astrodash	SN Ic	0.059
AT2024SYQ	FROM NED (SLS) z=0.0248	astrodash	SN II	0.0248
AT2024SVG	-	astrodash	SN Ia	0.047
AT2024QWN	-	astrodash	SN II	0.07
AT2024STW	-	astrodash	SN Ia-CSM	0.063
AT2024TDB	-	astrodash	SN Ia	0.035
AT2024QXA	FROM NED (SLS) z=0.024	astrodash	SN Ia	0.024

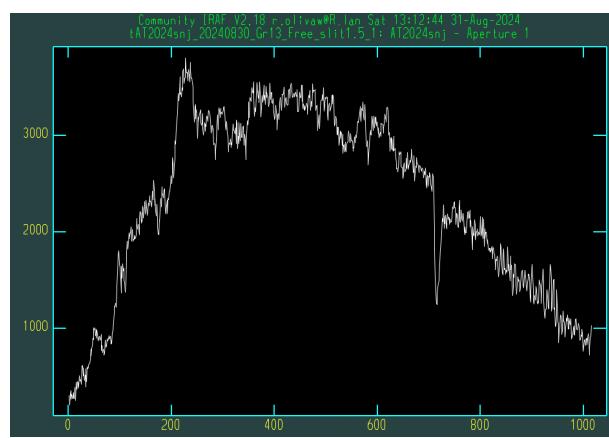
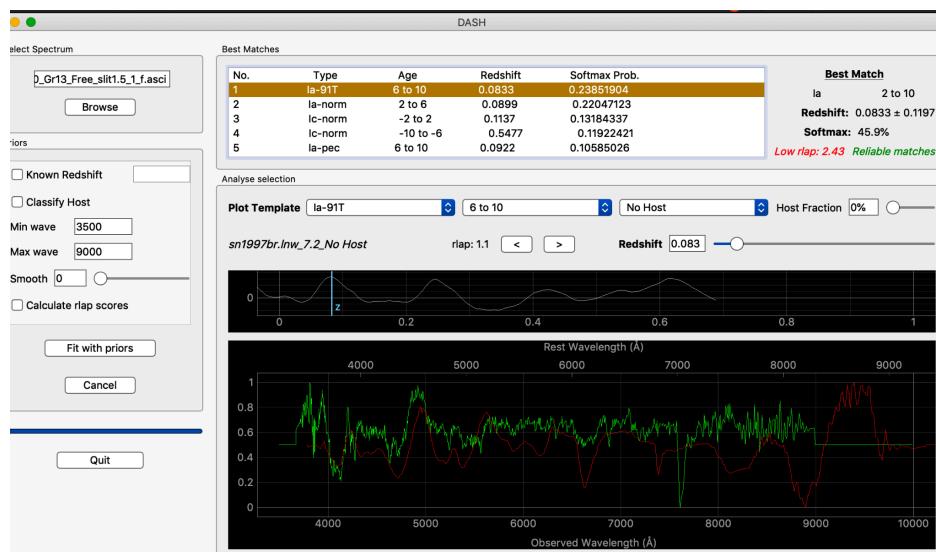
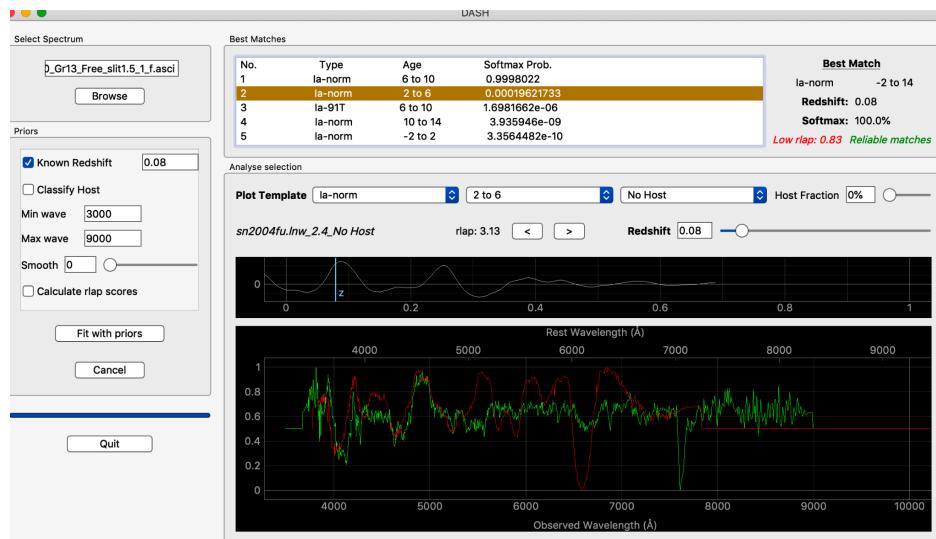
AT2024SBL EFOSC.2024-08-30T23:45:39.455 DONE, weird trace, had to play with the polynomial fit, looks like a Ia. Astrodash: Ia-91T at $z=0.079$



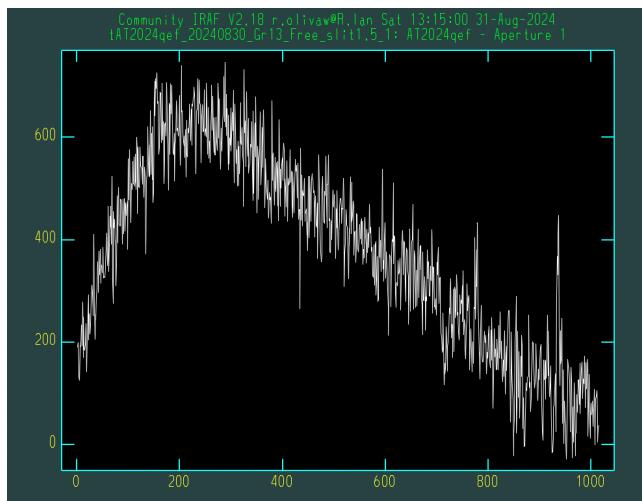
AT2024RZR EFOSC.2024-08-31T02:15:58.492 DONE, quite red, looks like a star ? there's a strong contamination by the host, but also there's a foreground star in front of the galaxy. If the host galaxy is indeed the one in the image, the redshift is $z=0.031$. The absorption still remind me of a CV, though... will try with NGSF



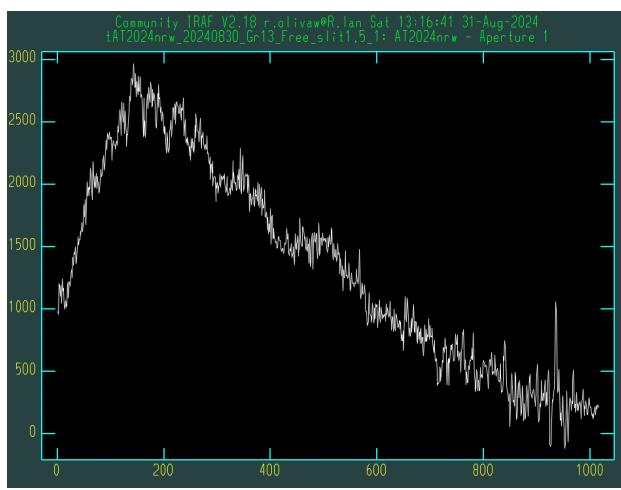
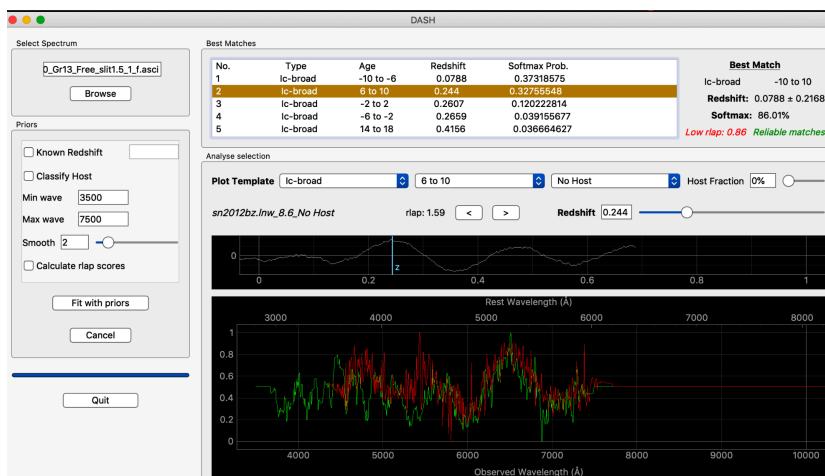
AT2024SNJ EFOSC.2024-08-31T03:52:24.483 DONE, it's a bit of a weird Ia if it is, sill reclassify with NGSF. According to a PUN redshift on NED: $z = 0.082$. Visually I would assume less.



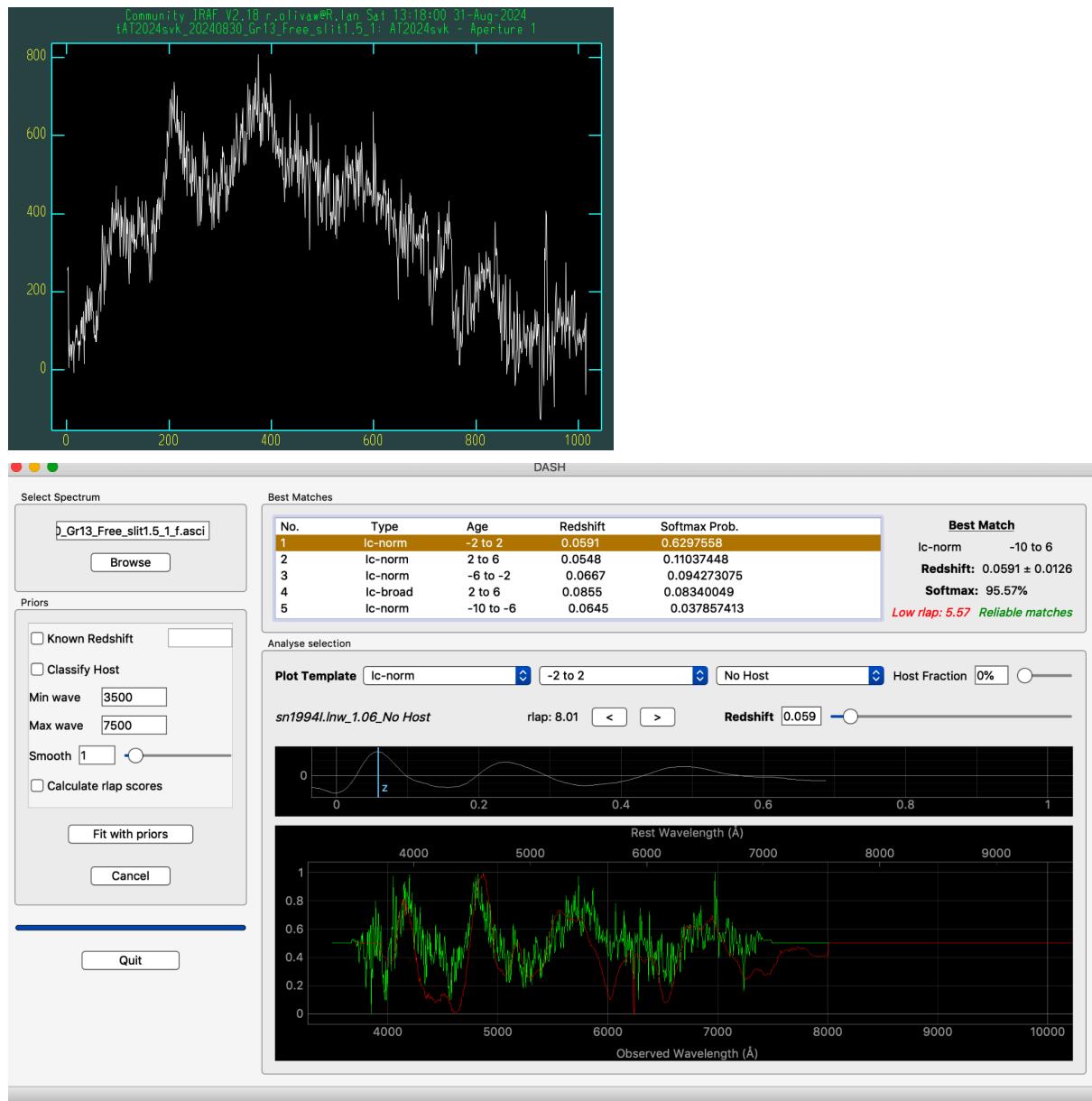
AT2024QEF EFOSC.2024-08-31T04:22:08.739 DONE, just very noisy... SN, and no redshift really... will try with NGSF. There's no clear feature...



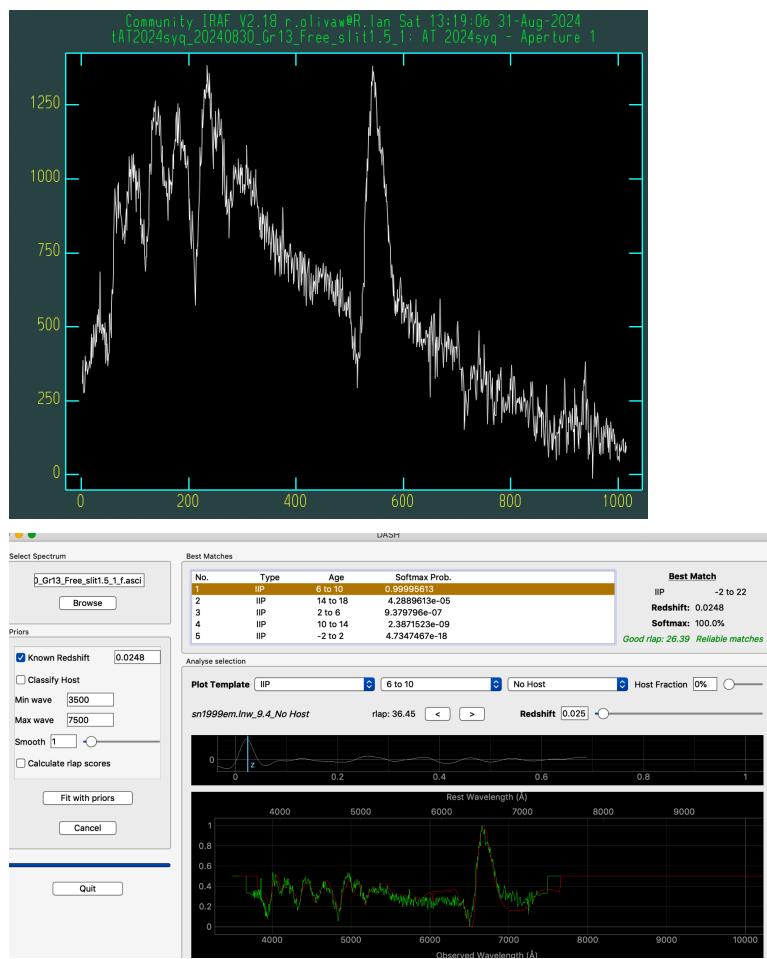
AT2024NRW EFOSC.2024-08-31T06:07:40.736 DONE, weird continuum. The best match with astrodash is a SN Ic BL at z=0.2



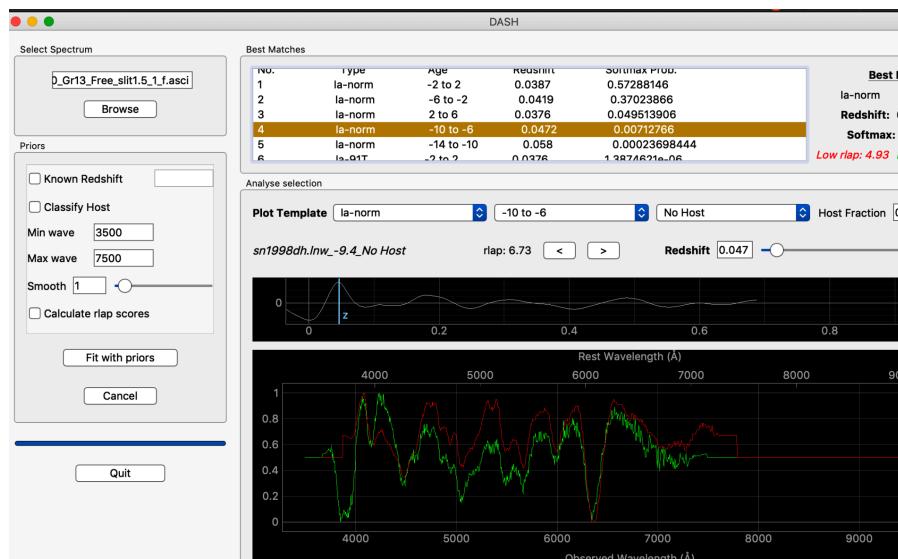
AT2024SVK EFOSC.2024-08-31T07:06:50.249 DONE, SN Ic z = 0.059

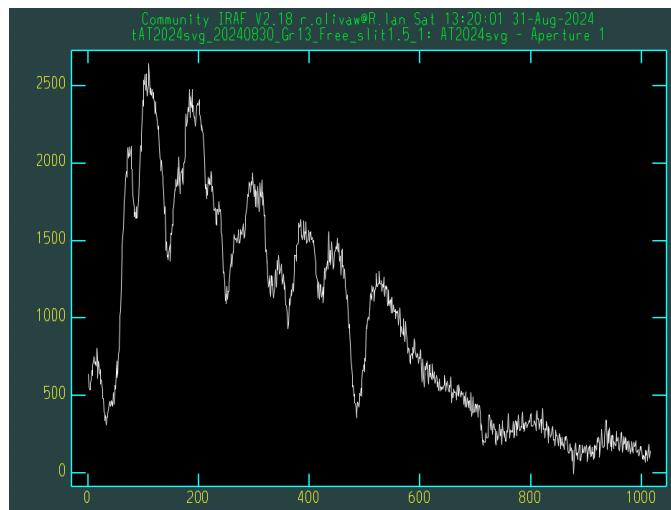


AT2024SYQ EFOSC.2024-08-31T07:35:31.010 DONE, a clear SN II, no surprise and a redshift from NED: $z=0.0249$

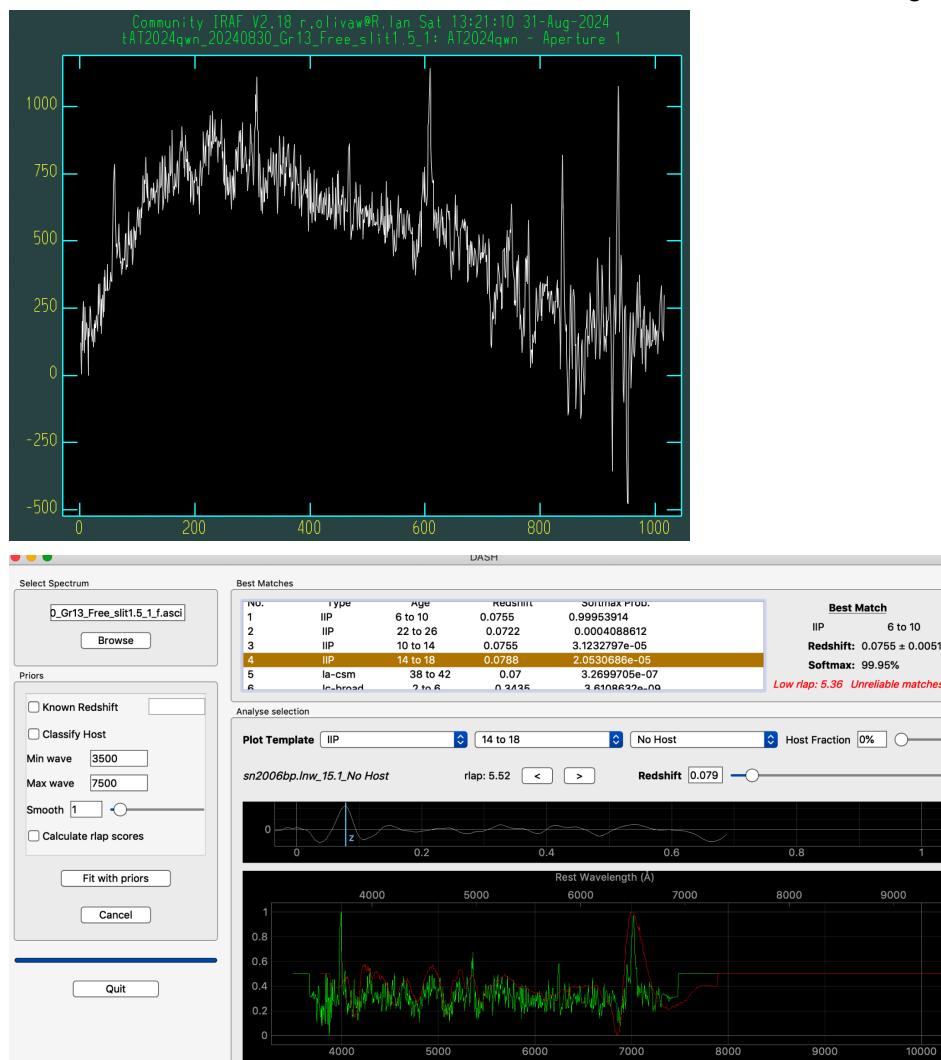


AT2024SVG EFOSC.2024-08-31T08:02:45.228 DONE, a good ol' Ia. No surprise,
z=0.047

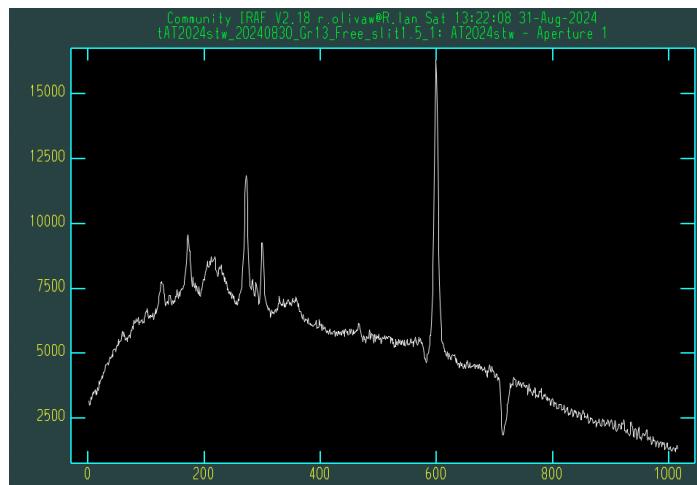




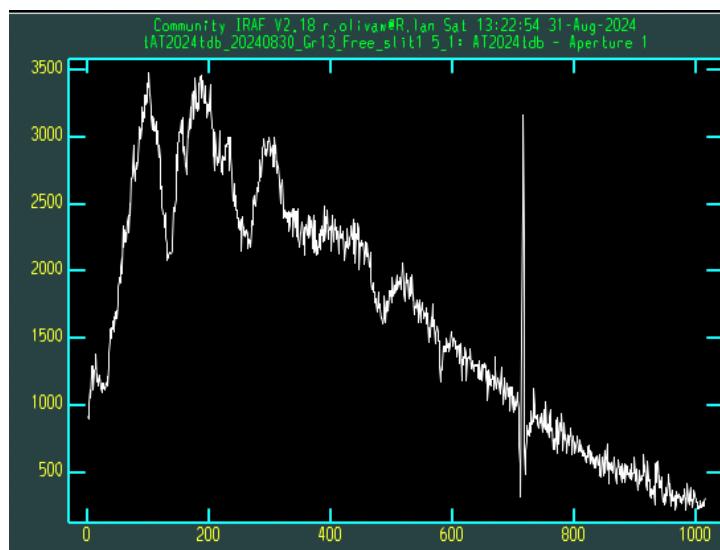
AT2024QWN EFOSC.2024-08-31T08:16:51.088 DONE, a bit strange. SN II at z=0.07



AT2024STW EFOSC.2024-08-31T08:44:27.855 DONE, SN II or IIn maybe? AStrodash:
Ia-CSM at z=0.063



AT2024TDB EFOSC.2024-08-31T09:10:55.296 DONE, Ia, astrodash: SN Ia z = 0;035



DASH

Select Spectrum

Priors

Known Redshift

Classify Host

Min wave

Max wave

Smooth

Calculate rlap scores

Best Matches

7	Ia-pec	-2 to 2	0.0376	1.2885065e-11
8	Ia-pec	-6 to -2	0.0397	6.518111e-12
9	Ia-pec	2 to 6	0.0312	3.708784e-15
10	Ia-norm	-6 to -2	0.0355	1.7172868e-15
11	Ia-norm	-10 to -6	0.0419	6.0263583e-16
12	Ia-02cx	-6 to -2	0.0186	6.228691e-17

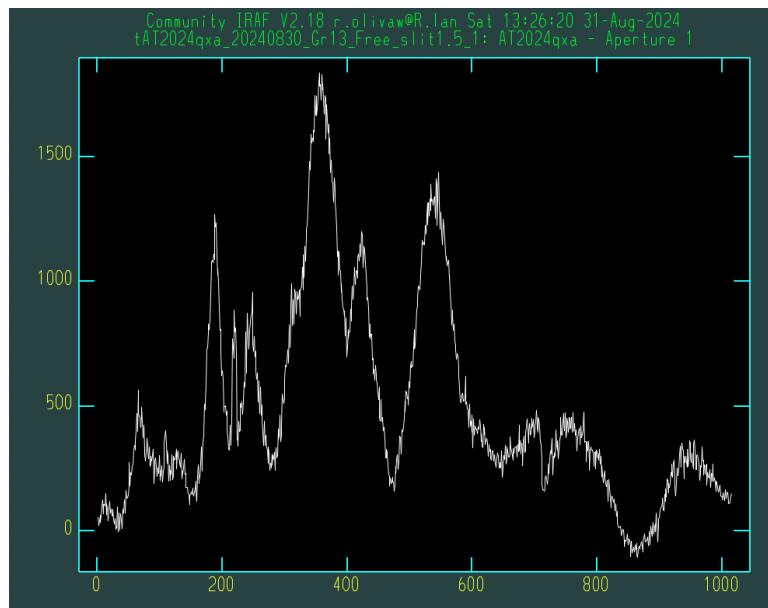
Best Match
Ia-91T -14 to 10
Redshift: 0.0376 ± 0.0018
Softmax: 100.0%
Good rlap: 12.63 Reliable matches

Analyse selection

Plot Template: Ia-norm -6 to -2 No Host Host Fraction 0%

sn2001cp.lnw_-4.9_No Host rlap: 6.0 Redshift 0.035

AT2024QXA EFOSC.2024-08-31T09:38:18.828 DONE,

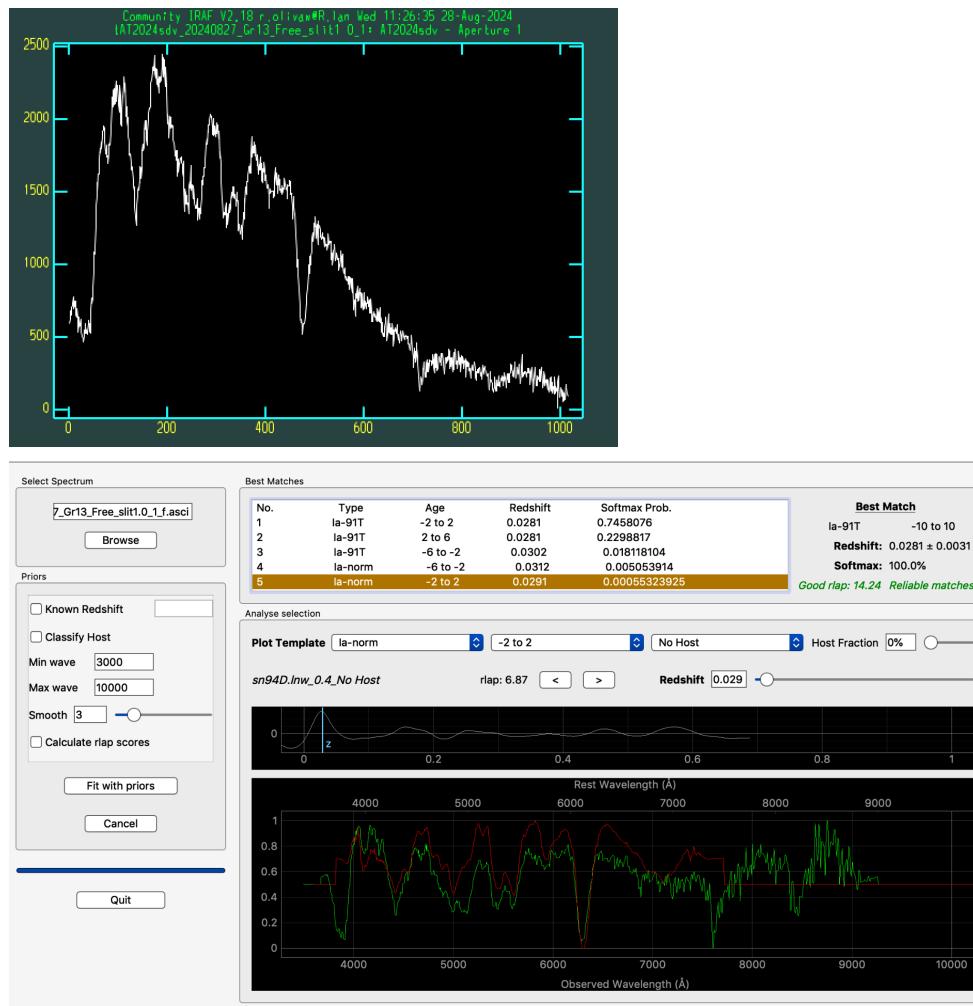


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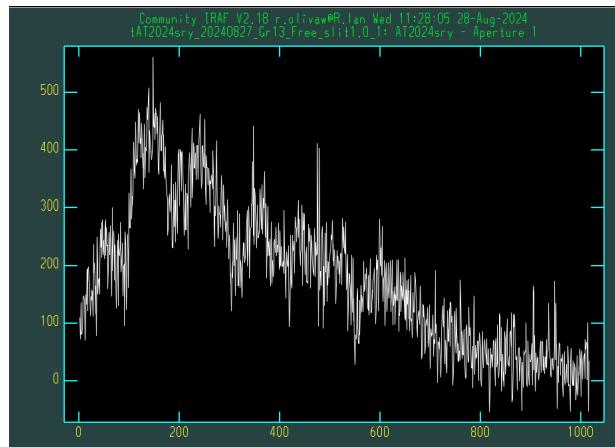
CLASSIFICATION

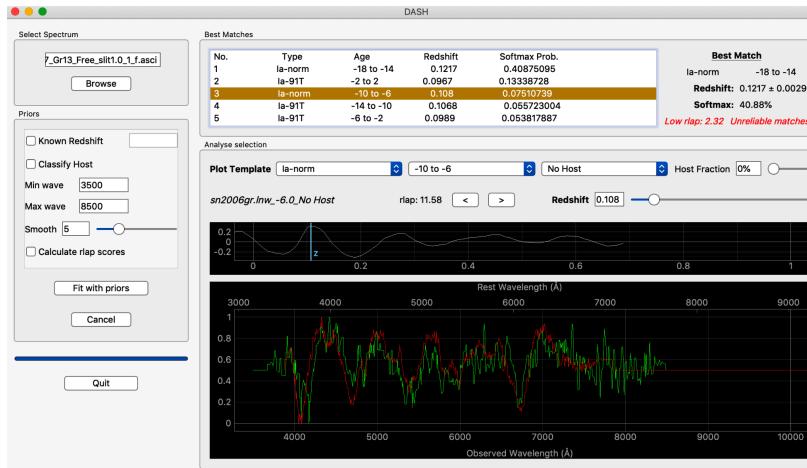
NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024SDV	-	ASTRODASH	Ia	0.03
AT2024SRY	-	ASTRODASH	Ia	0.1
AT2024SUI	FROM NED Z = 0.079752	ASTRODASH	Ia	0.08
AT2024SBX	-		II	0.07

AT2024SDV EFOSC.2024-08-28T02:56:38.788 DONE, prob Ia

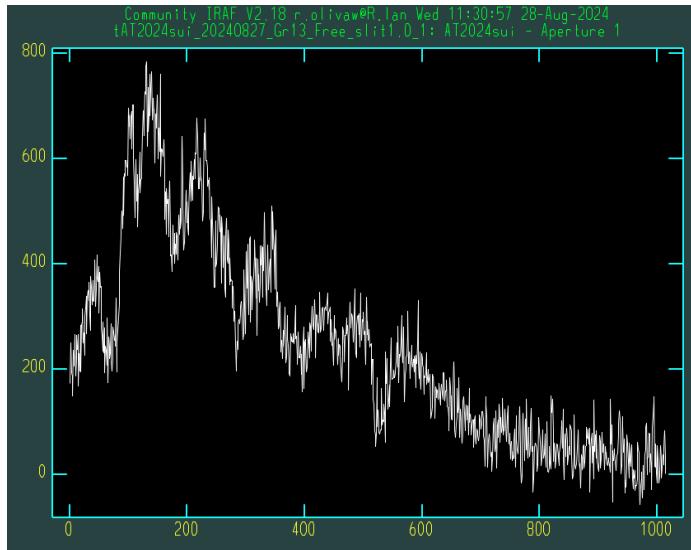


AT2024SRY EFOSC.2024-08-28T03:09:49.308 DONE, noisy

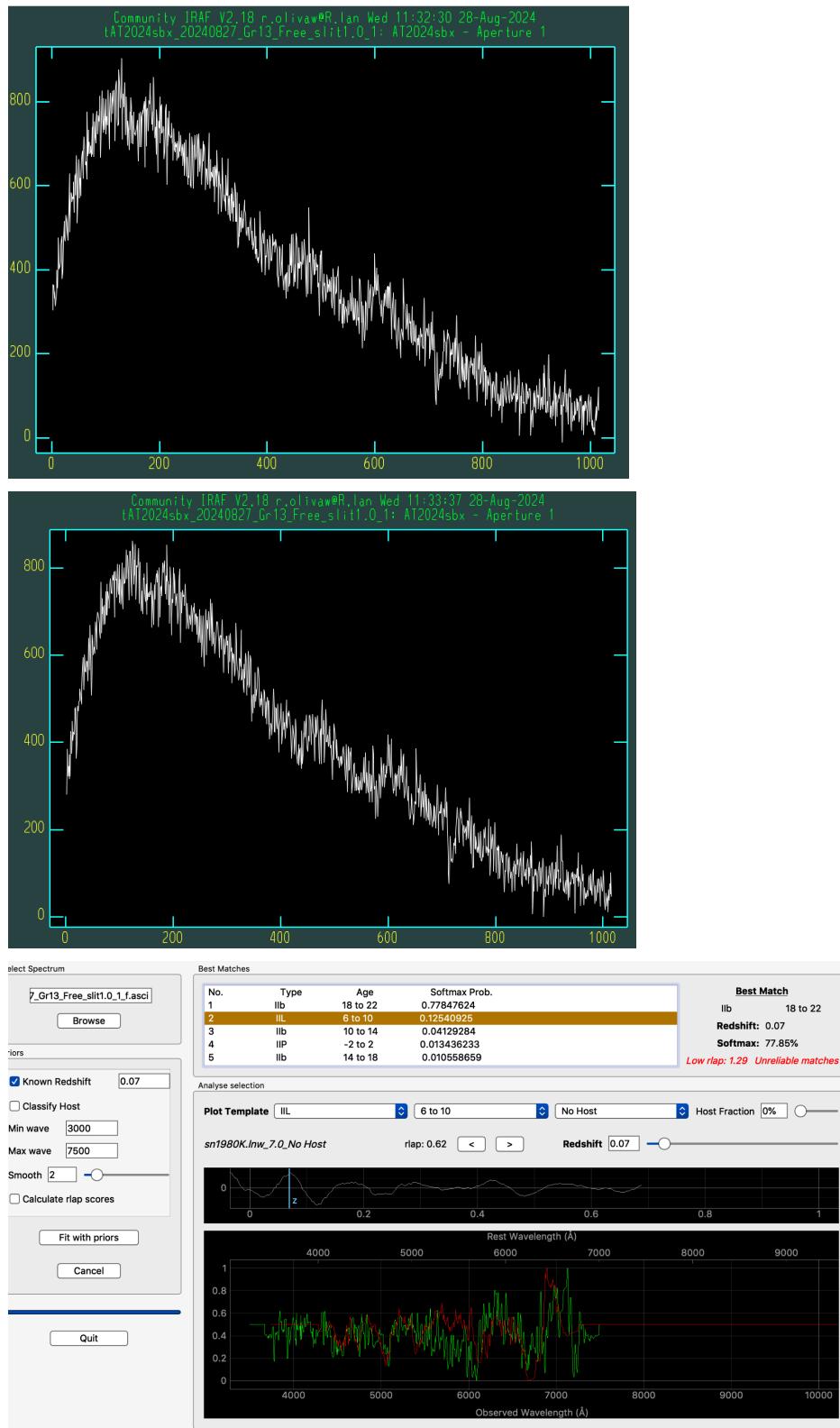




AT2024SUI EFOSC.2024-08-28T03:37:11.831 DONE, strong contamination by the host galaxy (on the trace), managed to remove it



AT2024SBX EFOSC.2024-08-28T04:01:58.285 DONE, looks like SN II

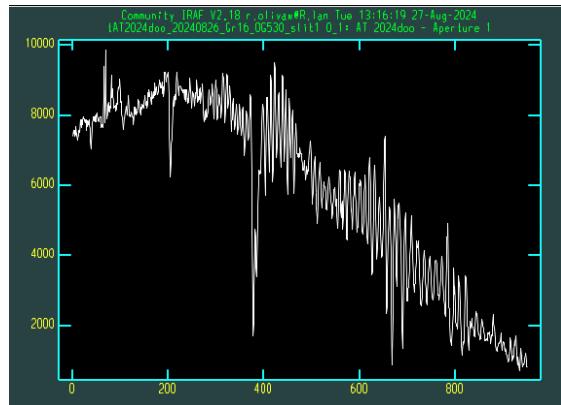


The light curve is quite faint, so I guessed that the redshift should be in the range of 0.07, which returns a SN II. It's right now cooling (from the LC emission). Will refine the classification and redshift with NGSF

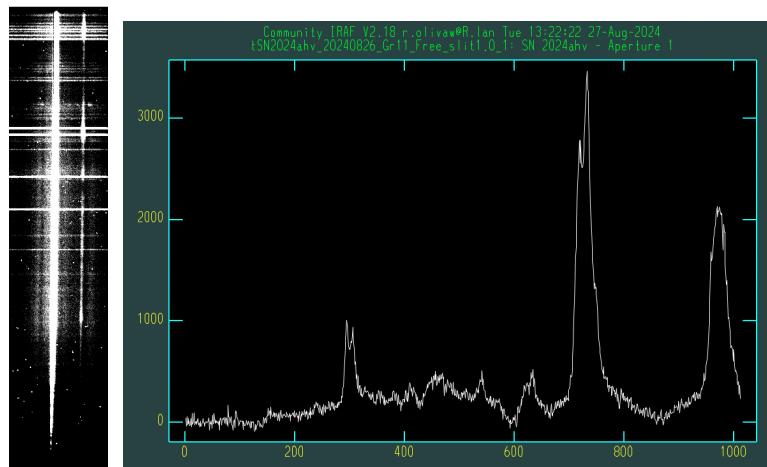
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FOLLOW UP

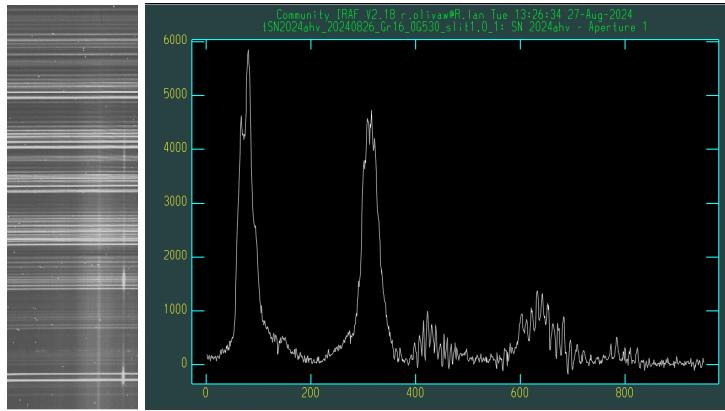
AT 2024DOO EFOSC.2024-08-26T23:53:11.056 DONE, very noisy



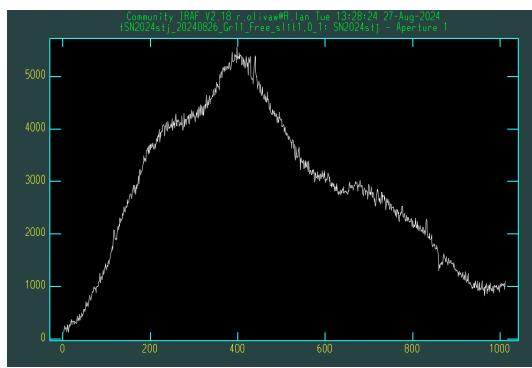
SN 2024AHV EFOSC.2024-08-27T01:10:32.819 DONE, there's a very bright object on the left... I suppose that the right object is the faint one at 552 px, there's also a fainter blob, which I assume is the host.



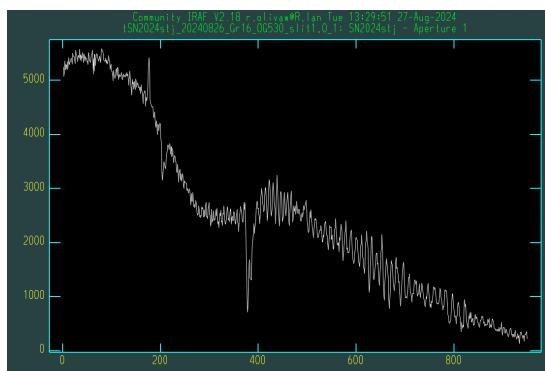
SN 2024AHV EFOSC.2024-08-27T01:46:50.987 DONE , in this image it's fine, there's no bright contaminating source. Interesting what was in the slit?



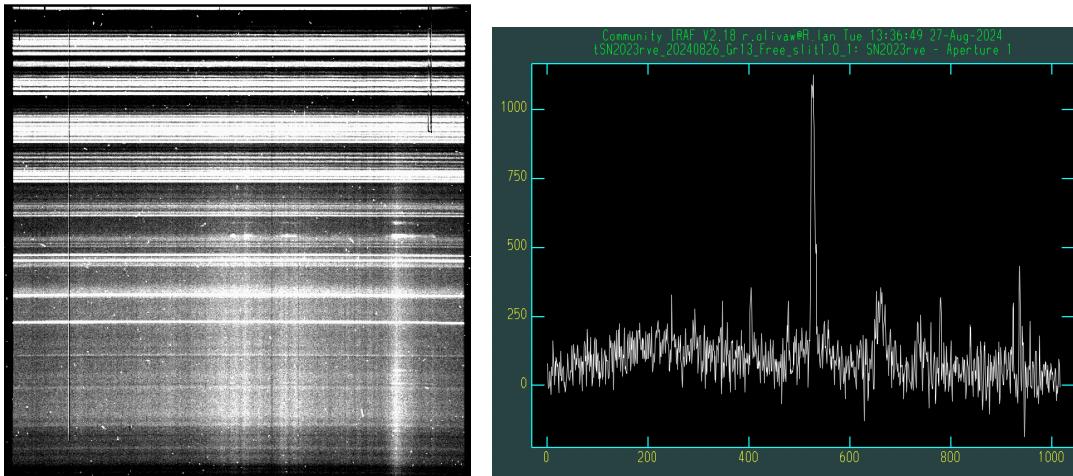
SN2024STJ EFOSC.2024-08-27T03:57:05.454 DONE, bright, no problem. Still a weird animal



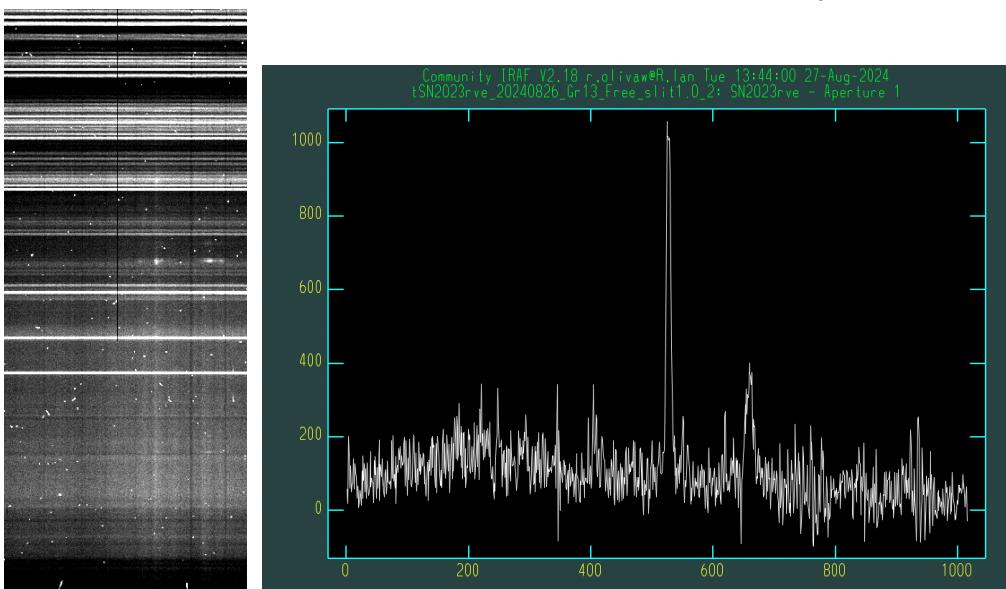
SN2024STJ EFOSC.2024-08-27T04:22:55.903 DONE



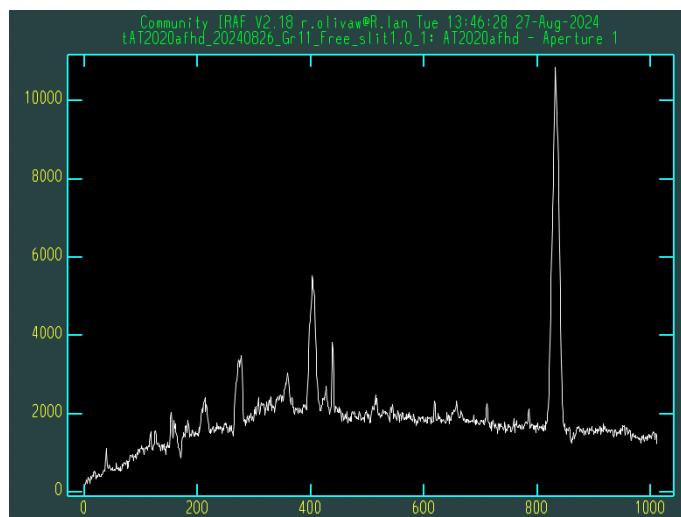
SN2023RVE EFOSC.2024-08-27T06:28:46.218 DONE, I don't see the object in the image... Boxy Halpha maybe? Really hard to distinguish



SN2023RVE EFOSC.2024-08-27T07:25:53.418 DONE, Very faint trace at 550 (ds9)



AT2020AFHD EFOSC.2024-08-27T09:11:59.213 DONE, bright trace, galaxy center

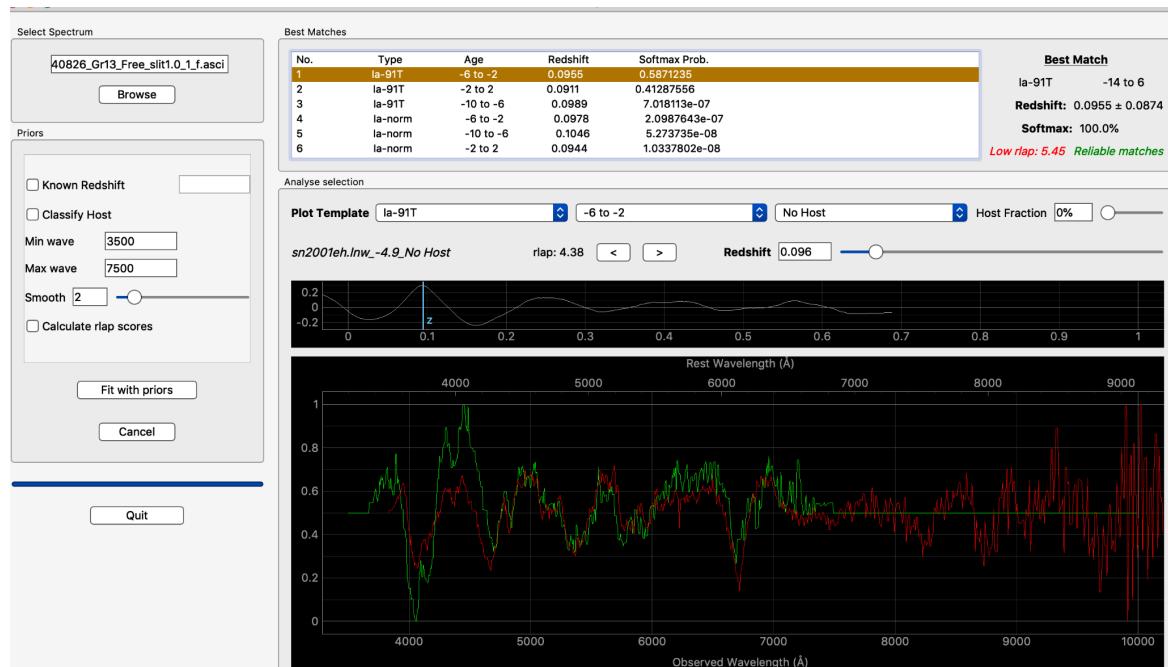
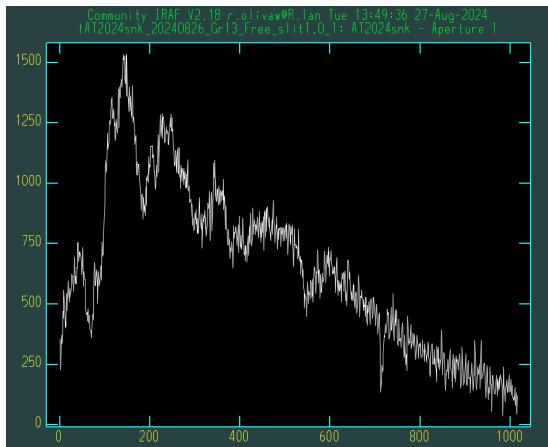


CLASSIFICATION

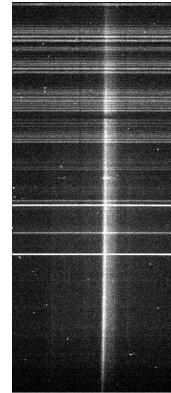
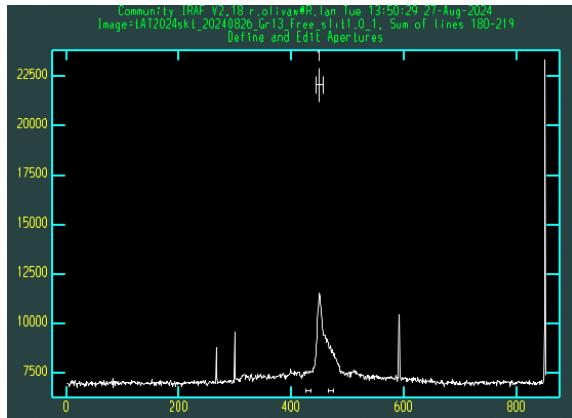
NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024SNK	-	ASTRODASH	Ia-91T-like	0.096
AT2024SKT	REDSHIFT FROM NED 0.021	ASTRODASH	Ib	0.021
AT2024RJC	-	ASTRODASH	Ia	0.11
AT2024QUX	REDSHIFT FROM NED 0.023	ASTRODASH	II	0.023

AT2024SNK EFOSC.2024-08-27T03:09:51.058 DONE, quite bright trace, no problemo.

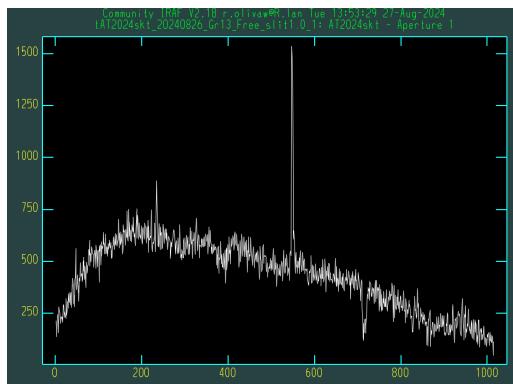
Classification wise, best fit is with 91T-like. I'm rounding up the redshift to $z=0.096$. Will double check with NGSF.



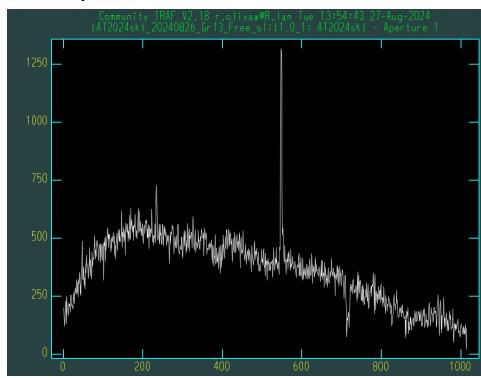
AT2024SKT EFOSC.2024-08-27T03:40:53.064 better than yesterday, but clear contamination by the host. Will include the wing in the data reduction to remove contamination.



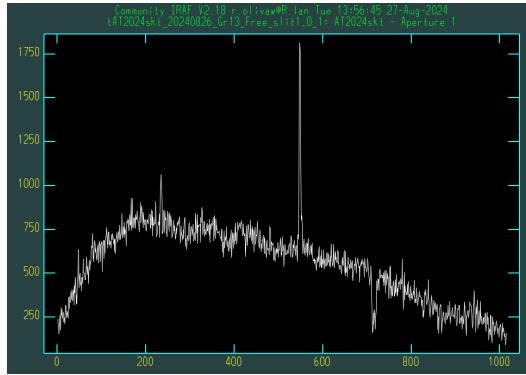
Attempt 1:



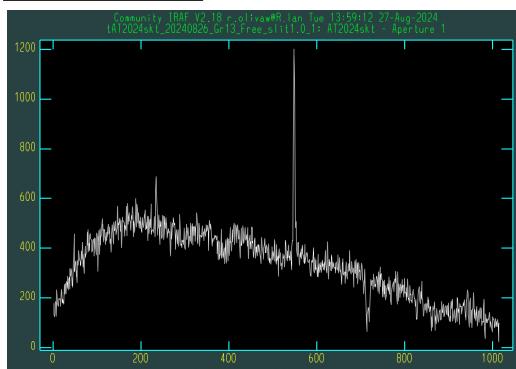
Attempt 2:



Attempt without removing the host galaxy: doesn't work because the trace is contaminates anyway. There are broad features under what seems to be a strong H alpha. If using NGSF, it might clip the feature.



Final reduction:



With the known redshift, a smoothing factor and by excluding the clear host line, we get a Ib.

DASH

Select Spectrum

Priors

Known Redshift

Classify Host

Min wave

Max wave

Smooth

Calculate rlap scores

Best Matches

No.	Type	Age	Softmax Prob.
1	Ib-norm	34 to 38	0.9479506
2	Ib	14 to 18	0.04628248
3	Ic-norm	6 to 10	0.0051531657
4	III	6 to 10	0.00044126972
5	Ib-norm	26 to 30	0.0001710069
6	Ic-norm	2 to 6	8.8058965e-07

Best Match

Ib-norm 34 to 38
Redshift: 0.021
Softmax: 94.8%

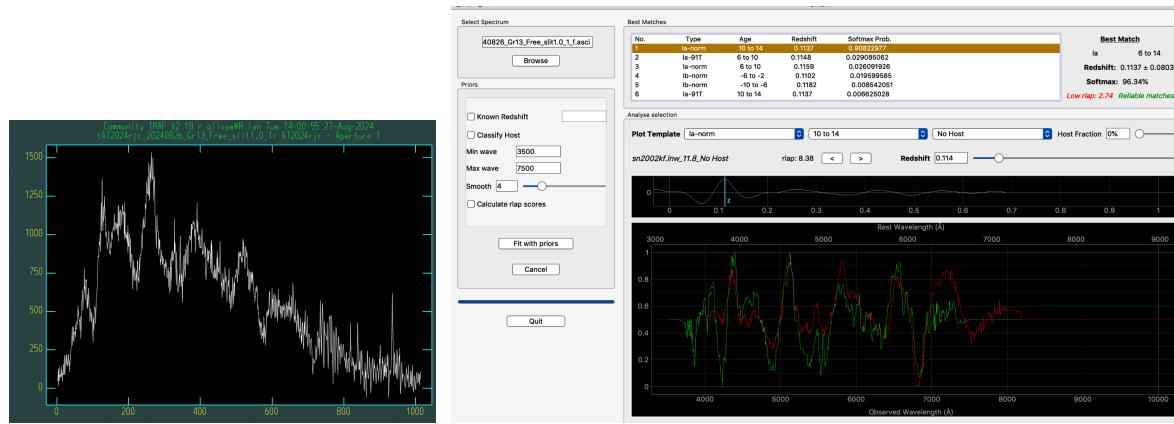
Low rlap: 2.22 Unreliable matches

Analyse selection

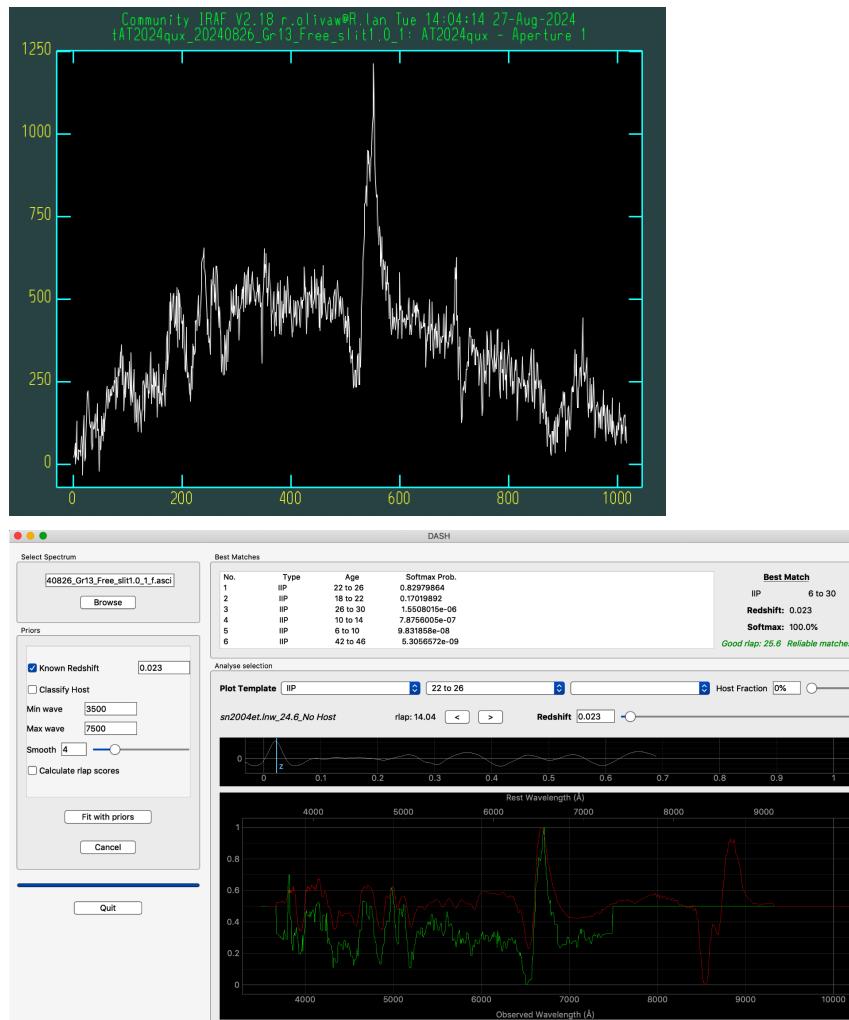
Plot Template: Ib-norm 34 to 38 Host Fraction: 0%

sn1984L.lnw_36.8_No Host rlap: 3.79 < > Redshift: 0.021

AT2024RJC EFOSC.2024-08-27T08:17:59.584 DONE, prob Ia
Definitely a Ia at z=0.011



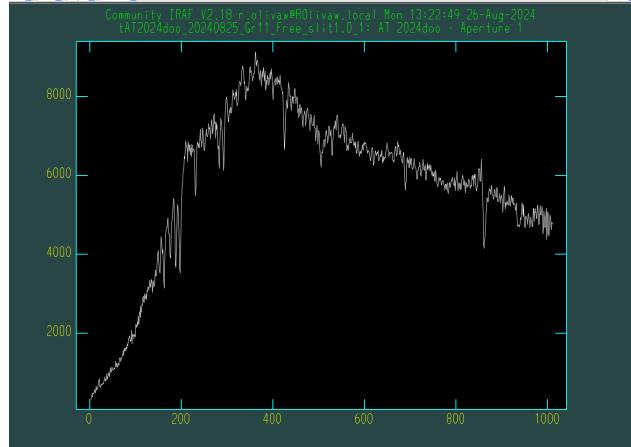
AT2024QUX EFOSC.2024-08-27T09:40:11.026 Done, Weird trace... what a weird blob on the side... which is prob a galaxy. Very nice middle plateau SN II. Bonus galaxy lines for redshift.



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FOLLOW UP

AT2024DOO



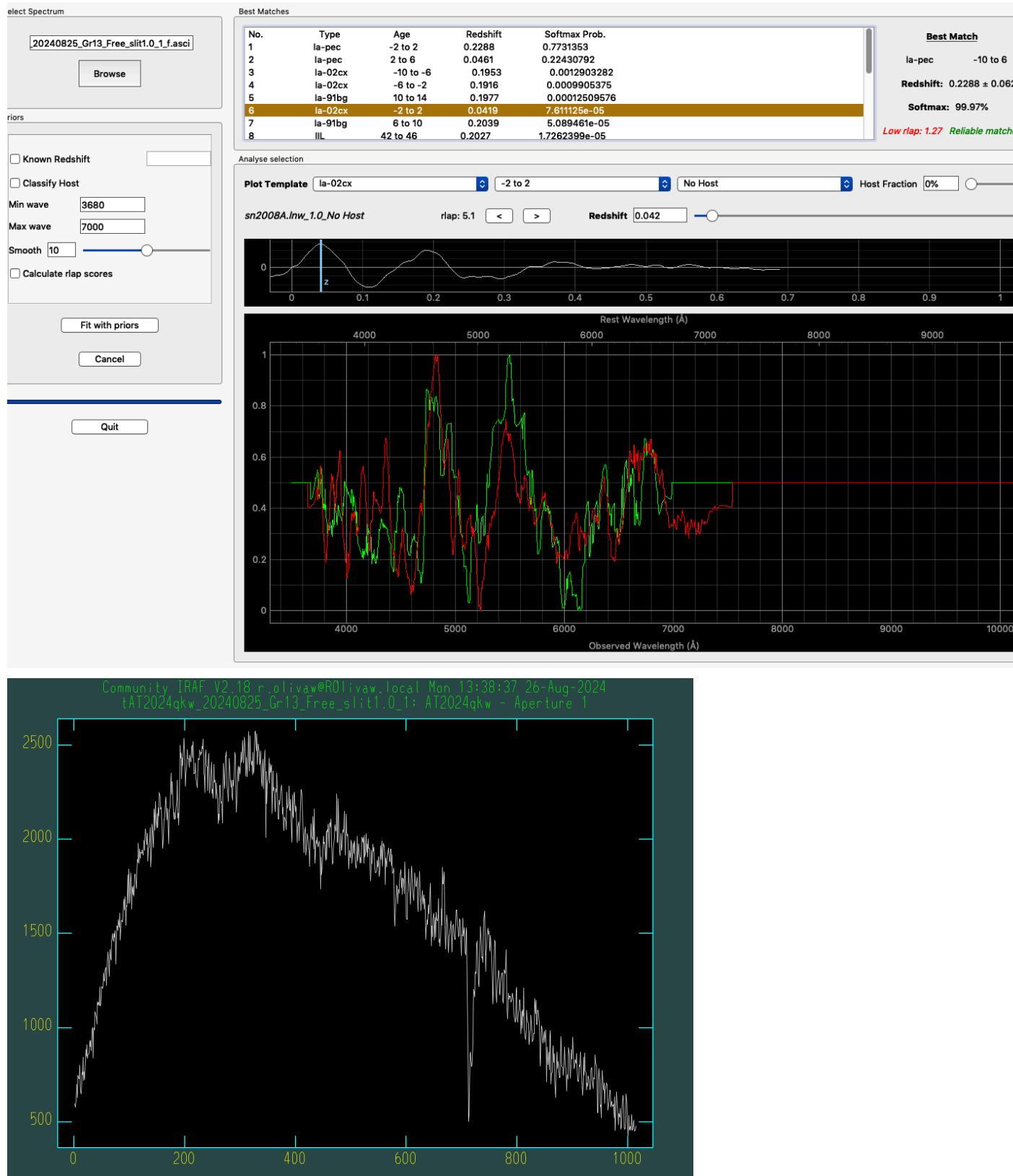
CLASSIFICATION

NAME	KNOWN REDSHIFT	ORIGIN	CLASSIFICATION	ESTIMATED REDSHIFT
AT2024QKW	-	ASTRODASH	Ia-pec	0.0461
AT2024SLC	-	ASTRODASH	Ia-norm	0.07
AT2024RPT	FROM NED(SLS) 0.074962	ASTRODASH	Ia-norm	0.0777
AT2024RYR	-	ASTRODASH	Ic-BL	0.0922
AT2024SKY	-	ASTRODASH	II	0.0124
AT2024STT	-	ASTRODASH	Ia-91bg	0.044
AT 2024STJ	-	ASTRODASH	Ic-BL	0.2 after a run with SNID turns out it is z=0.04

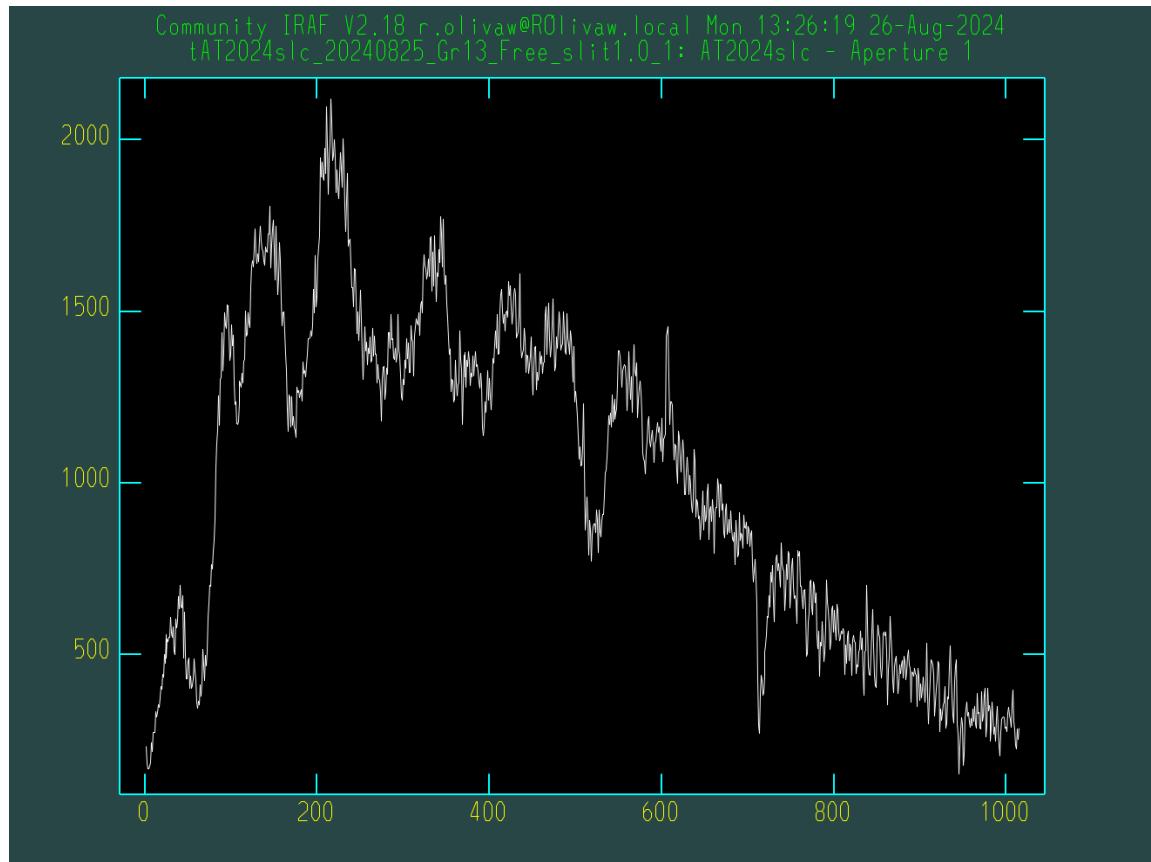
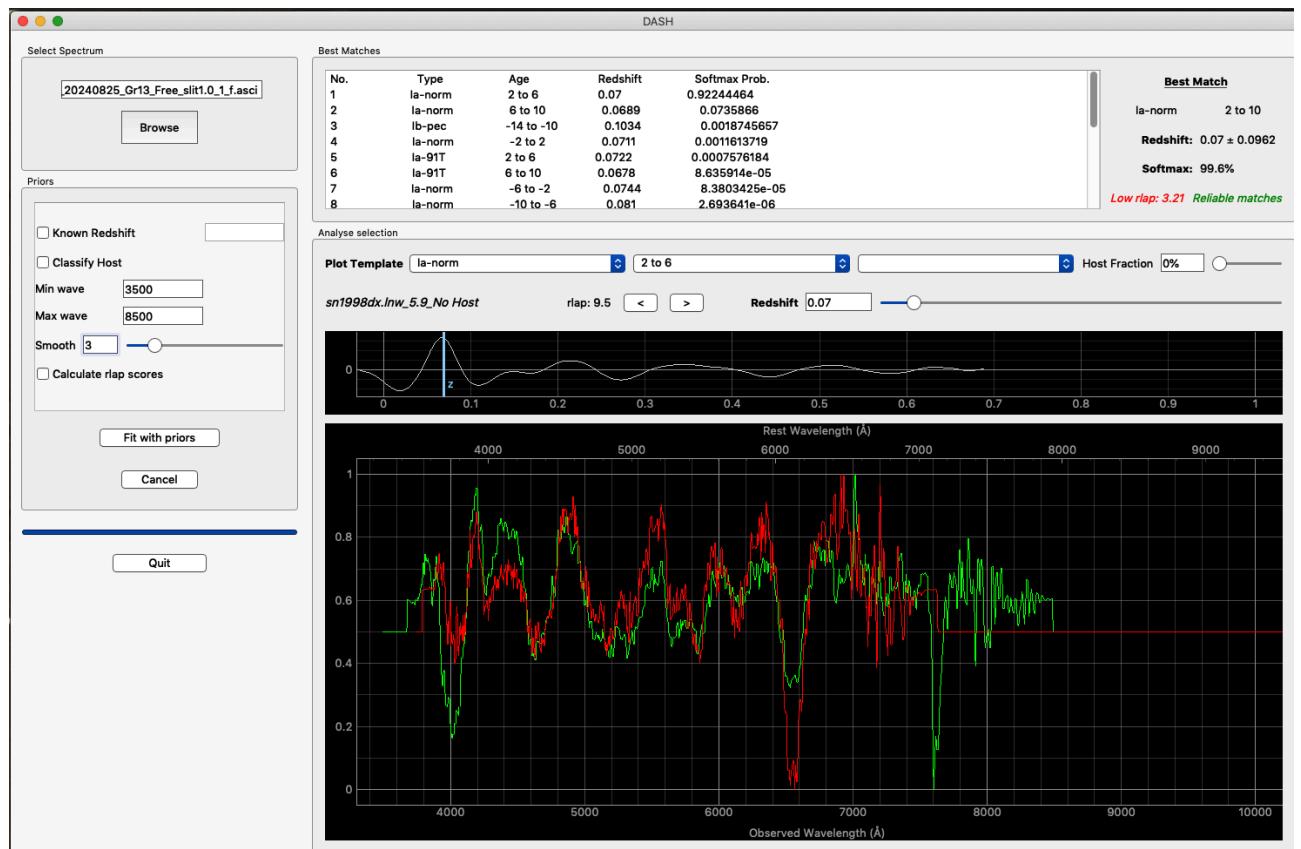
AT 2024SEH	-	ASTRODASH	SN	0.056 (corrected from galaxy lines estimation)
AT2024RCC	-	ASTRODASH	Ia-91T	0.14
AT 2024SFX	FROM NED(PUN) 0.050	ASTRODASH	Ia-norm	0.0634
AT2024SKE	-	ASTRODASH	Ia-91T	0.0788
AT2024SSN	FROM NED(SLS) 0.033499	ASTRODASH	Ib	0.033
AT2024SSH	-	ASTRODASH	II	0.019
AT2024RRN	FROM NED(SUN) 0.032416	ASTRODASH	Ic	0.035
AT2024SKT	FROM NED(SUN) 0.021		SN	0.02

AT2024qkw

Tough one, if it's a SN, then more probable that the host has a redshift of 0.05 given the SDSS image. So I will go with Ia Pec, and 0.0461 according to astrodash

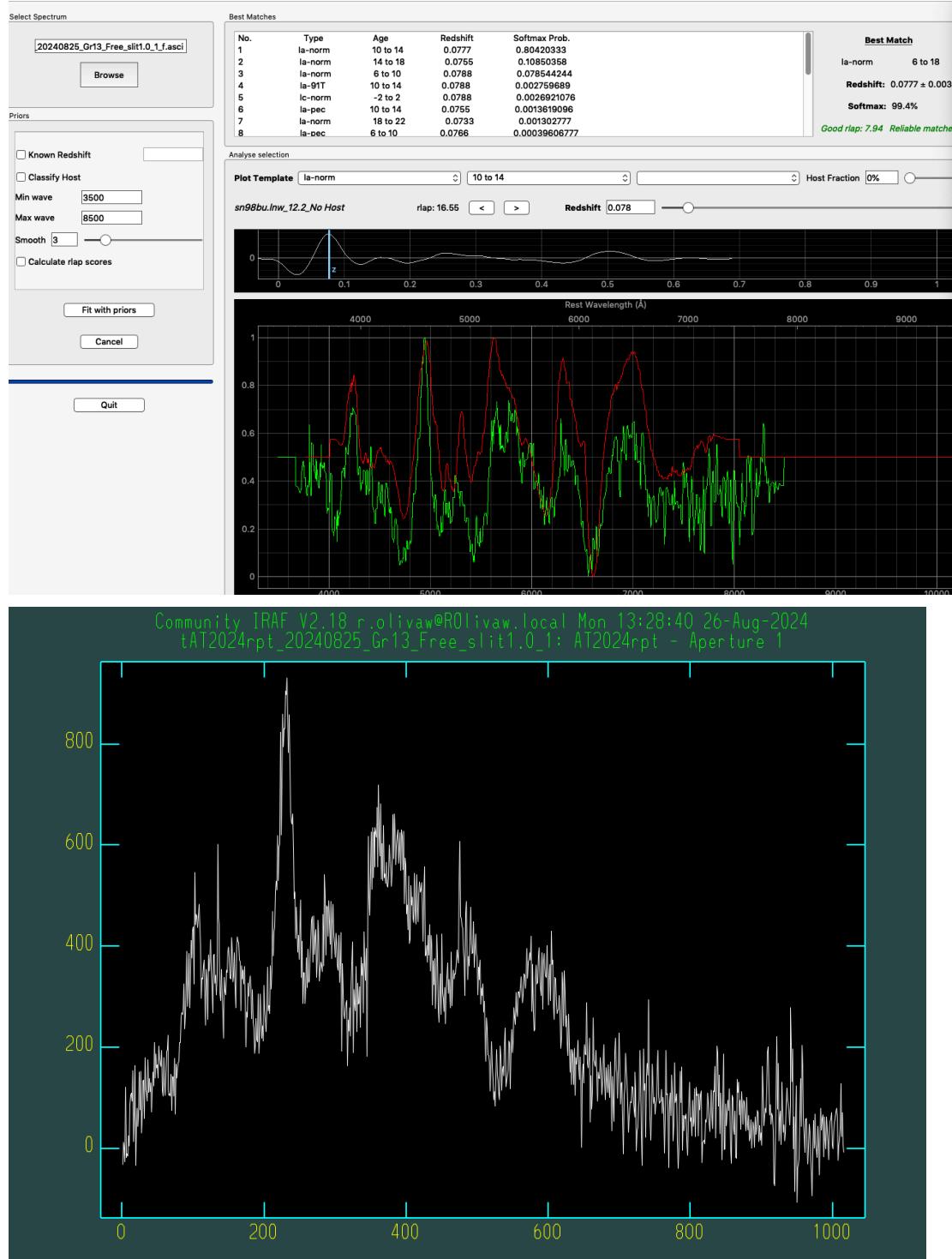


AT2024slc
A vanilla la! No fit problem here



AT2024rpt

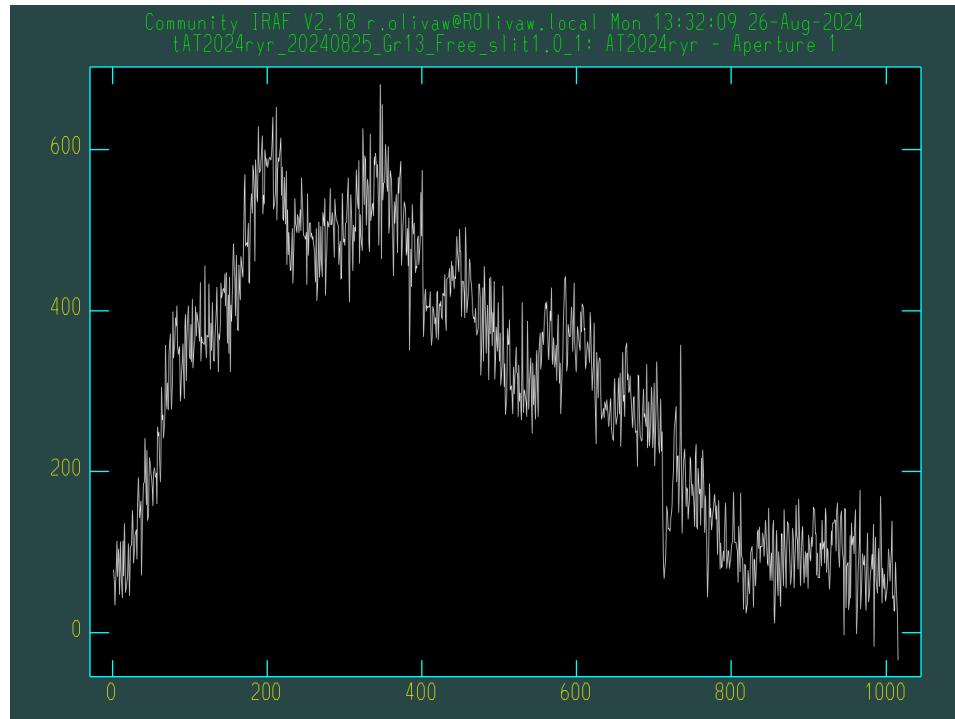
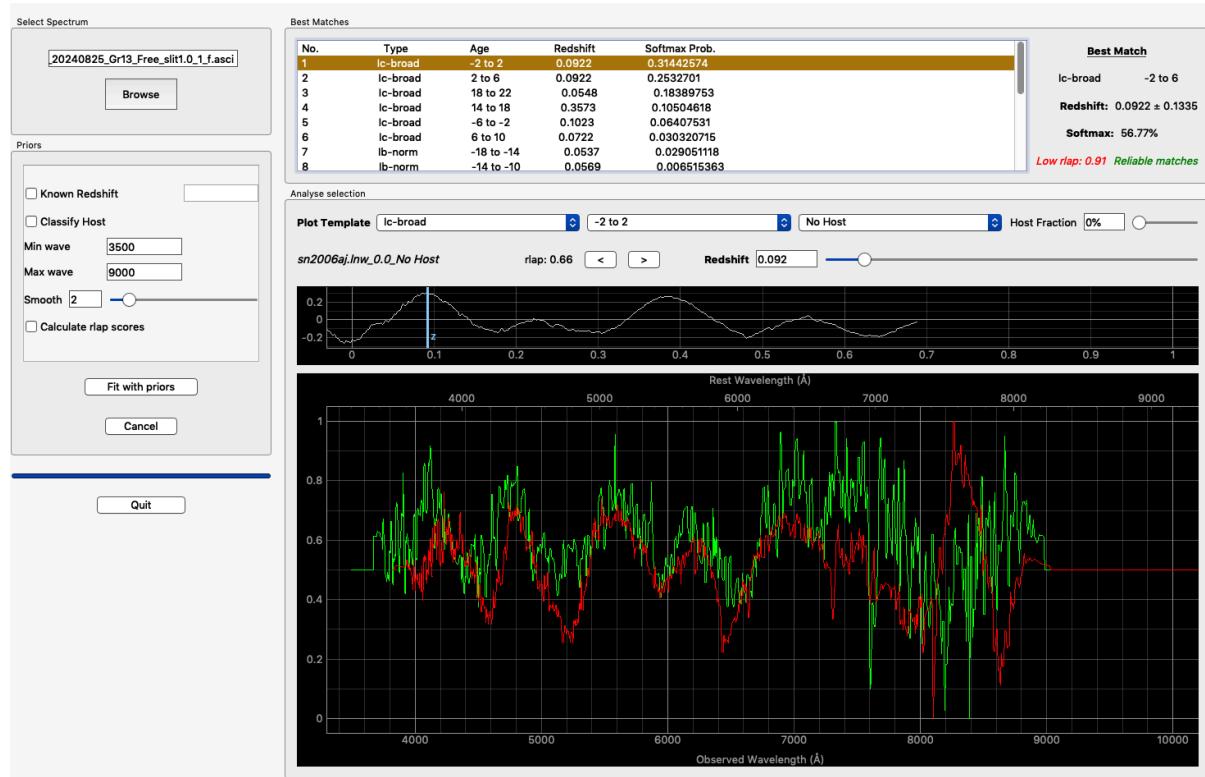
There's a known redshift from NED (SLS quality, if someone knows what this means?)
 $z=0.074962$ It's also a vanilla la



AT2024ryr

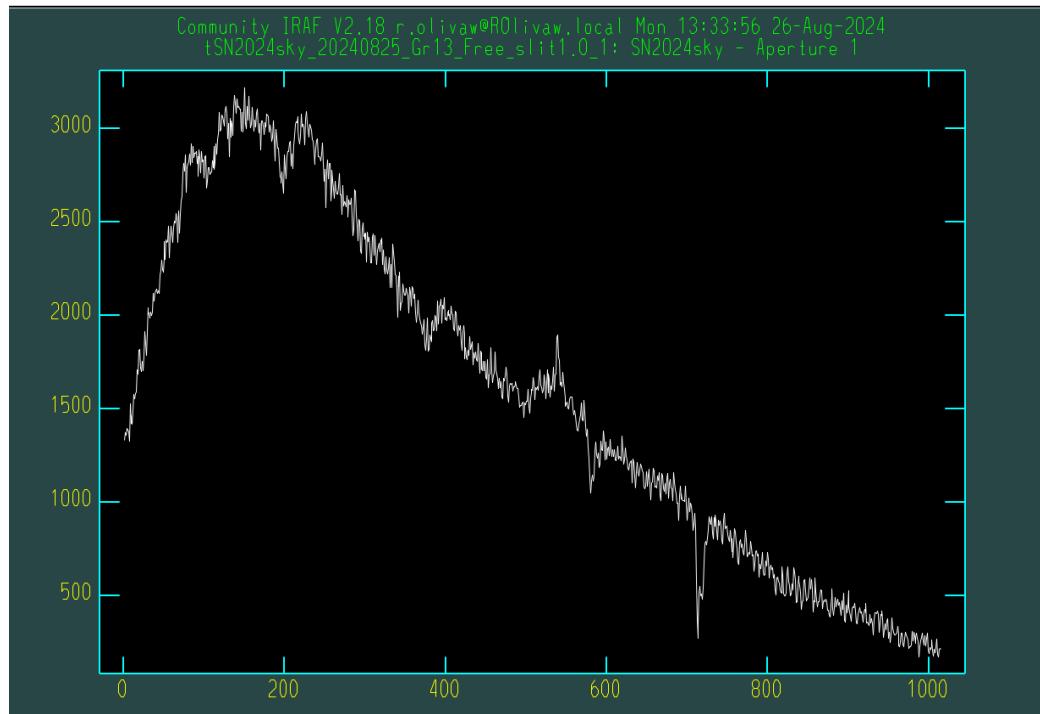
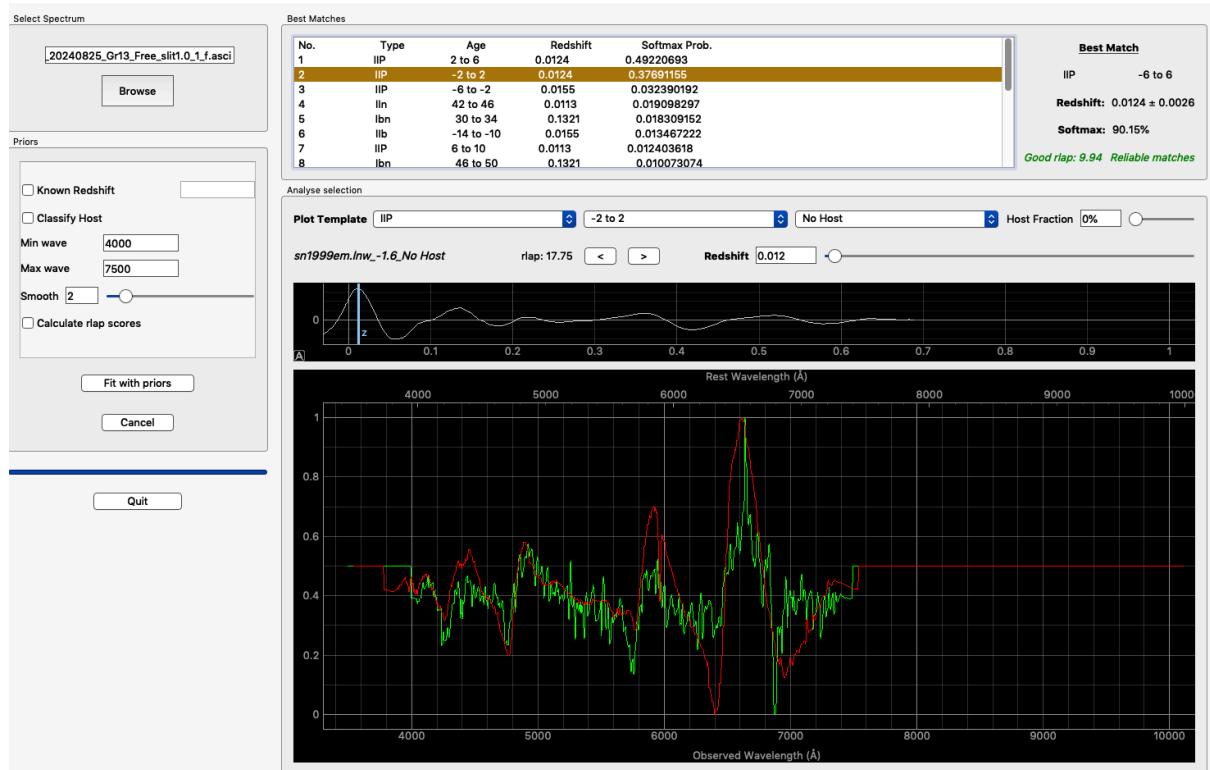
Can't identify a host galaxy for this one, looks also very faint.

After playing with range and smoothing the most reliable match is a lc-broad line at z=0.0922



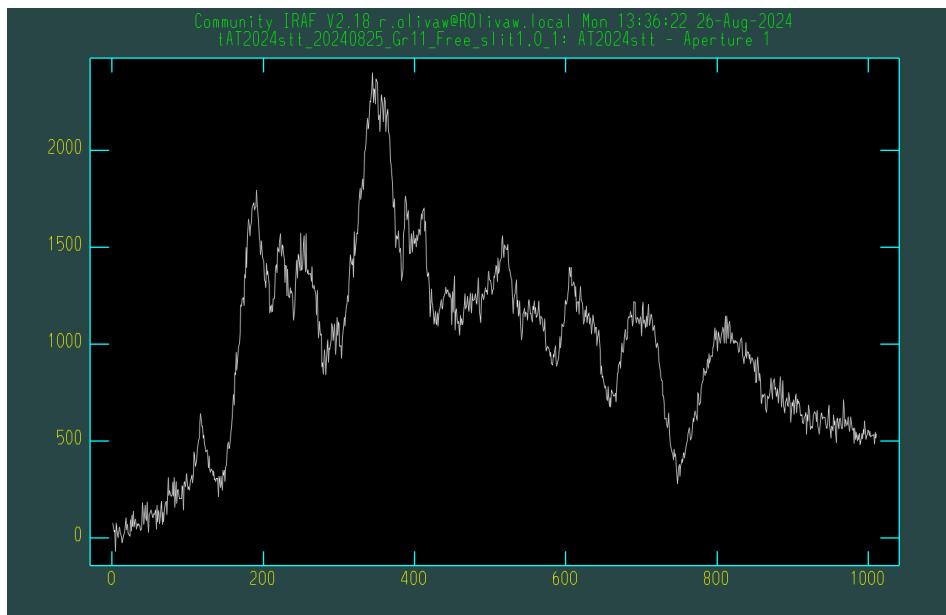
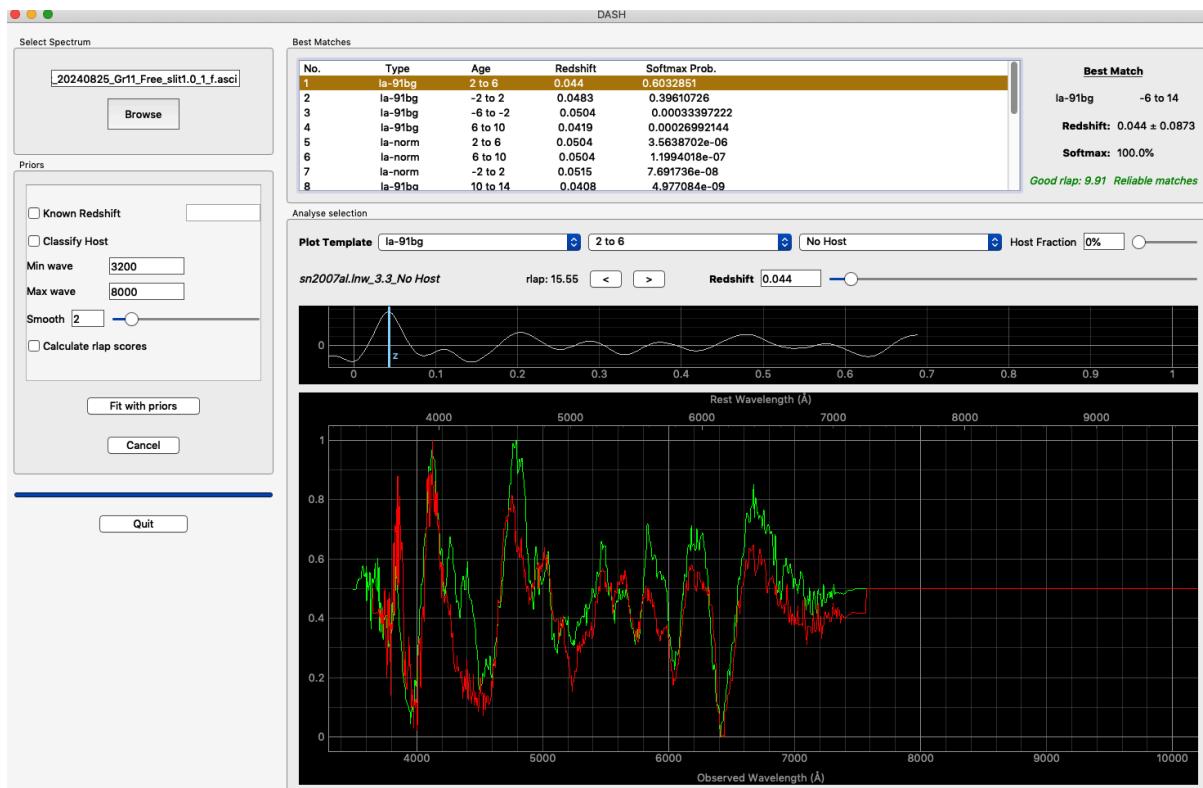
AT2024sky

Had to cut the range of wavelength so have a good fit
Best fit here would be a SN II at z=0.0124



AT2024STT

No known redshift from NED. The fit looks reliable though, going for a Ia-91bg at z=0.044

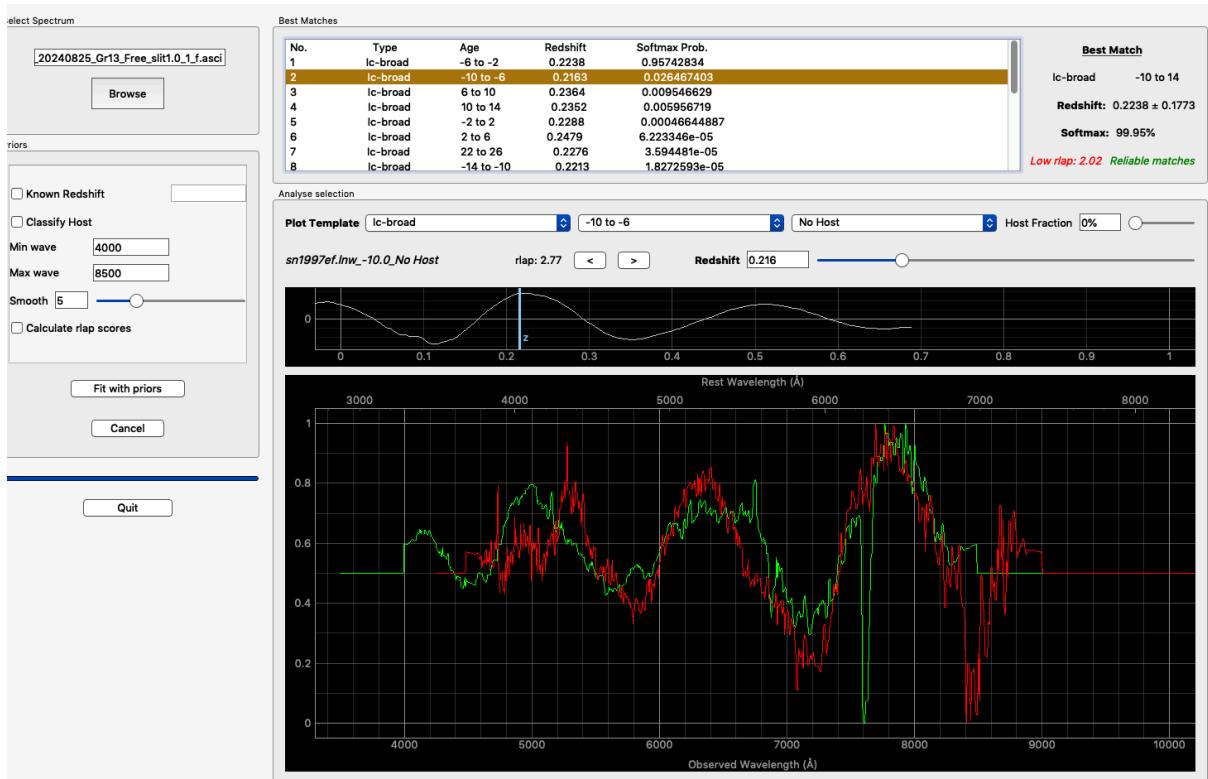
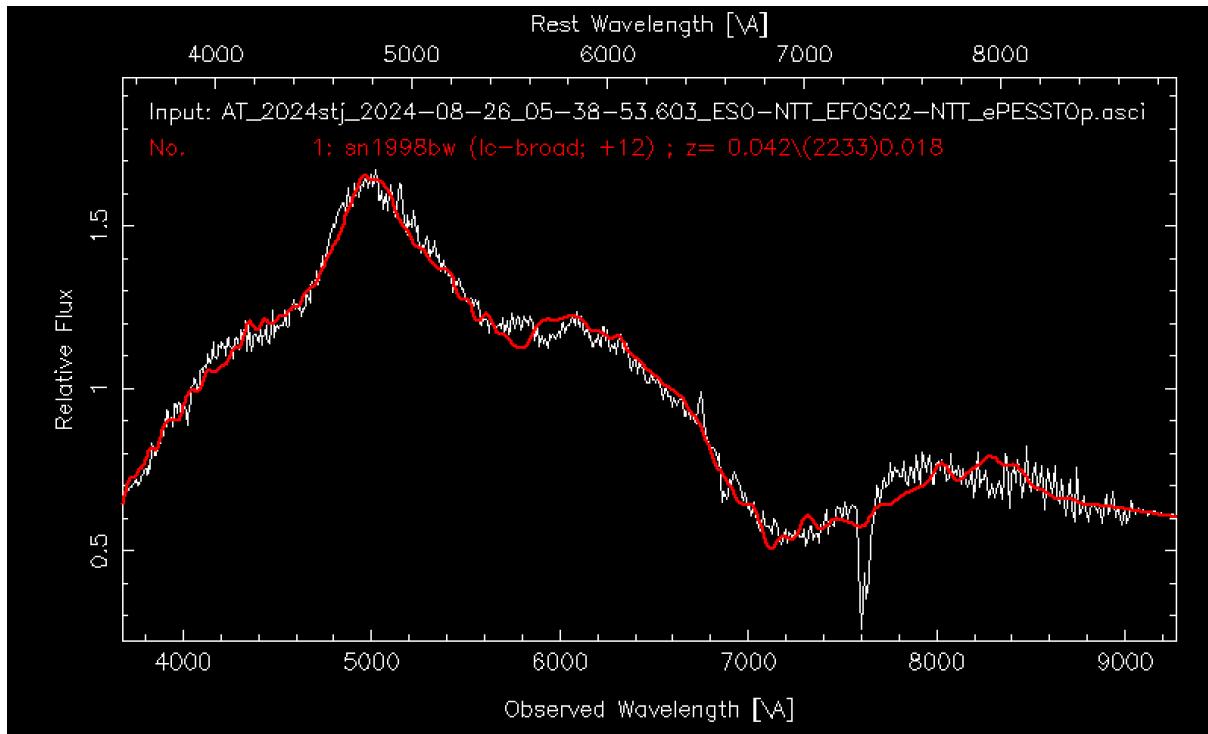


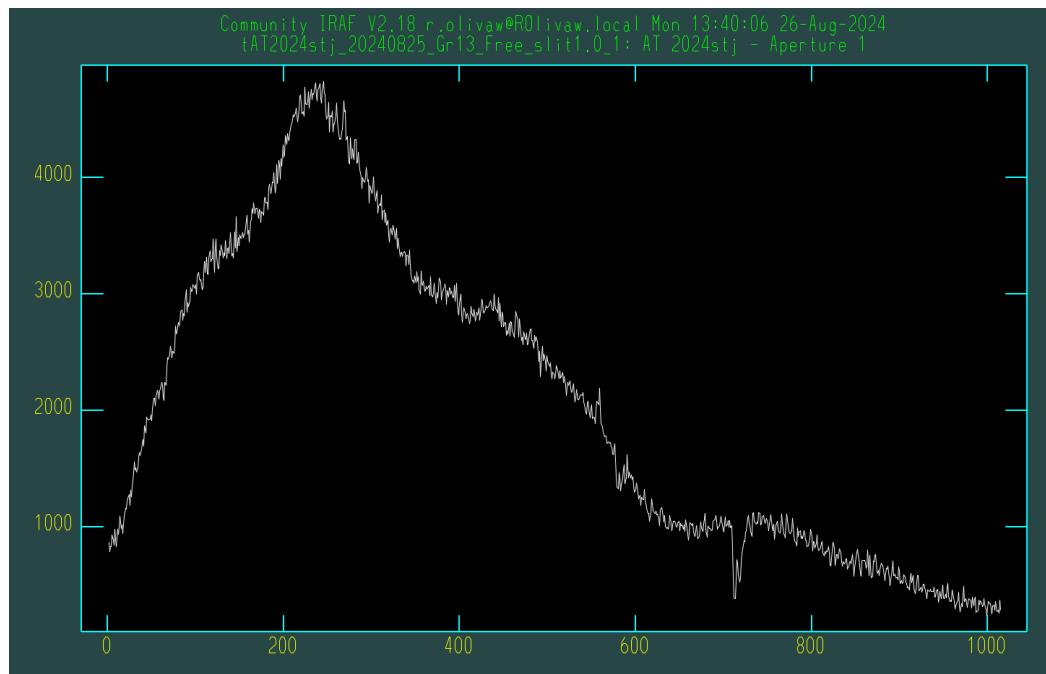
AT2024stj

What a weird animal?? Might be a SLSN, but there's not SLSN template in astrodash, so for now I'm putting it as a Ic BL at redshift 0.2

Using NGSF for a double check renders:

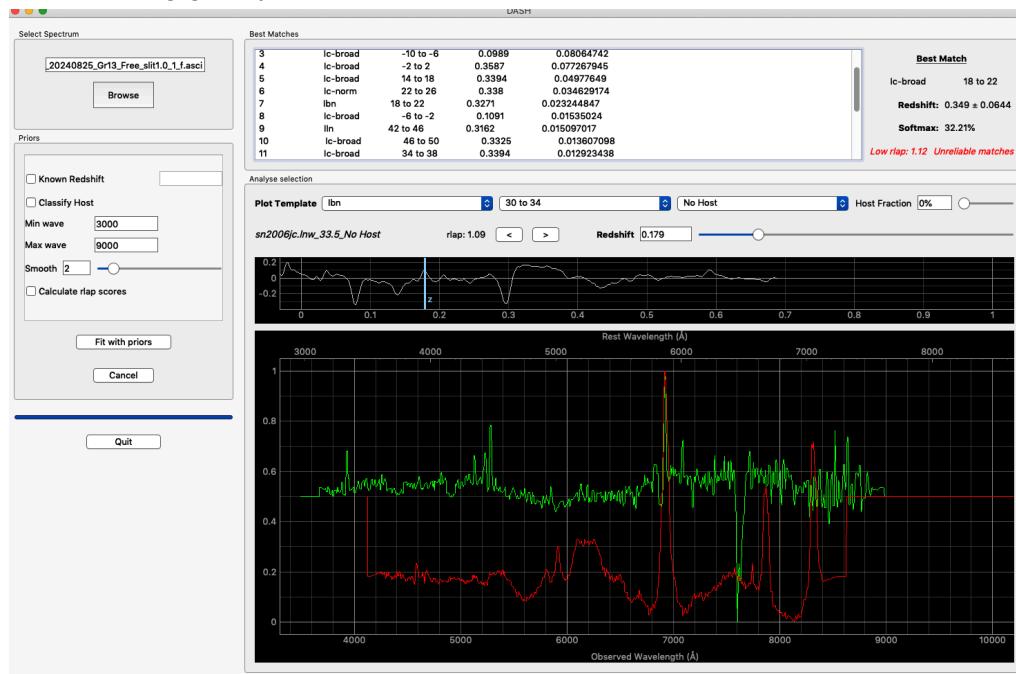
SNID returns Ic BL for z=0.04

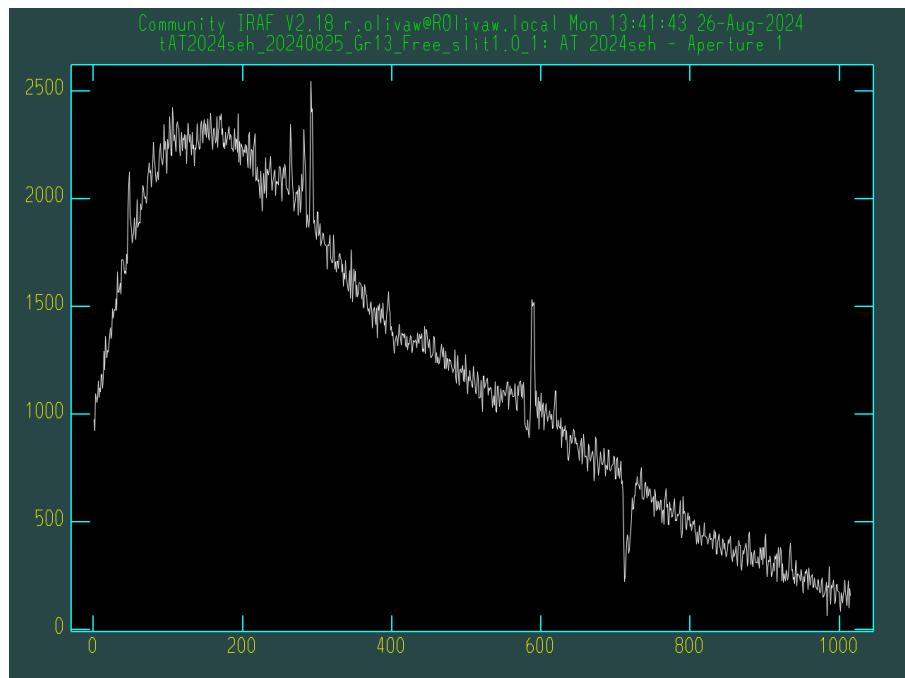




AT2024seh

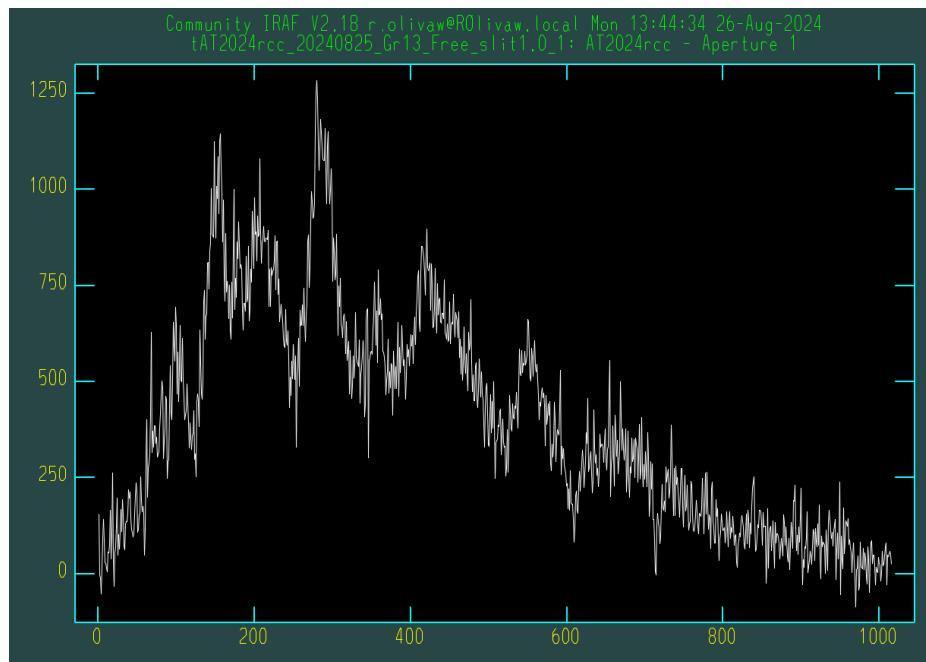
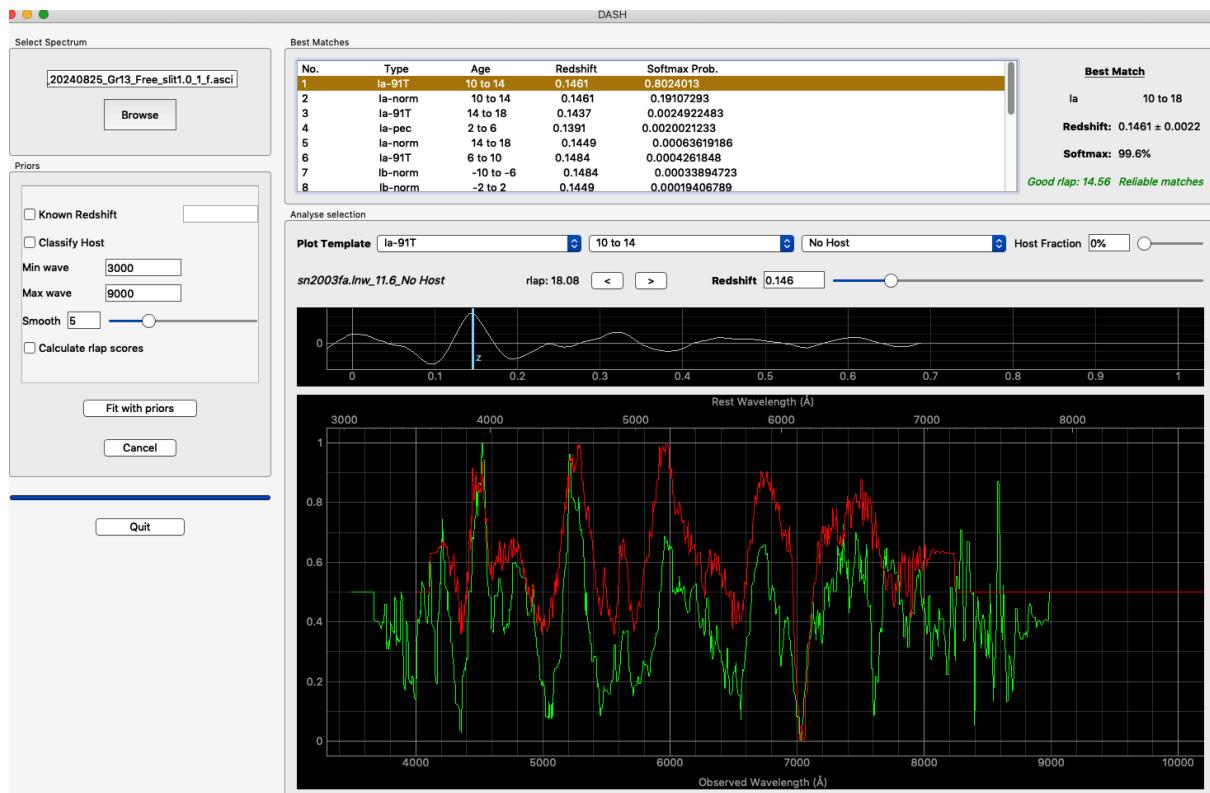
Not finding a good match with any SN, but it is a SN for sure. The lines a surel some galaxy lines, and looking at it, it should be around $z=0.18$. Need to refine using Superfit. The right redshift using galaxy lines is 0.056





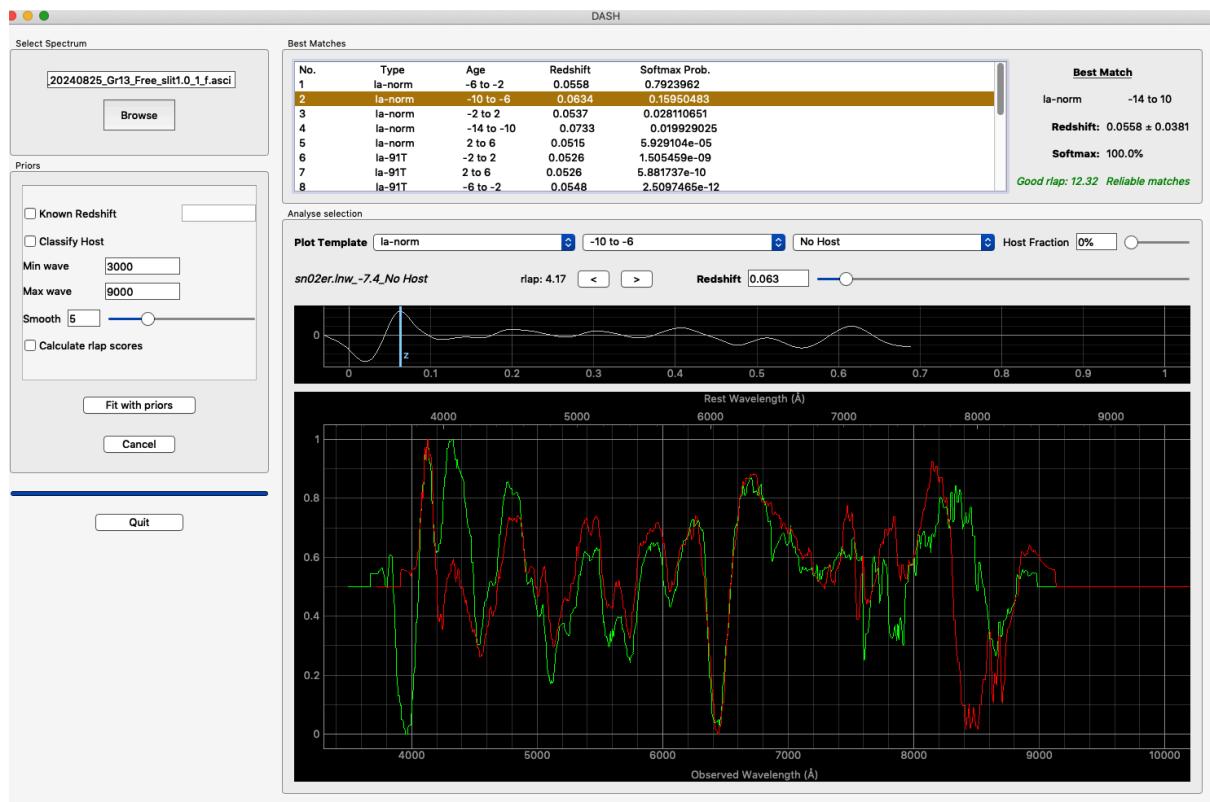
AT2024rcc

It's a SLSN candidate, but clearly it is a Ia... so Ia-91T at $z=0.146$



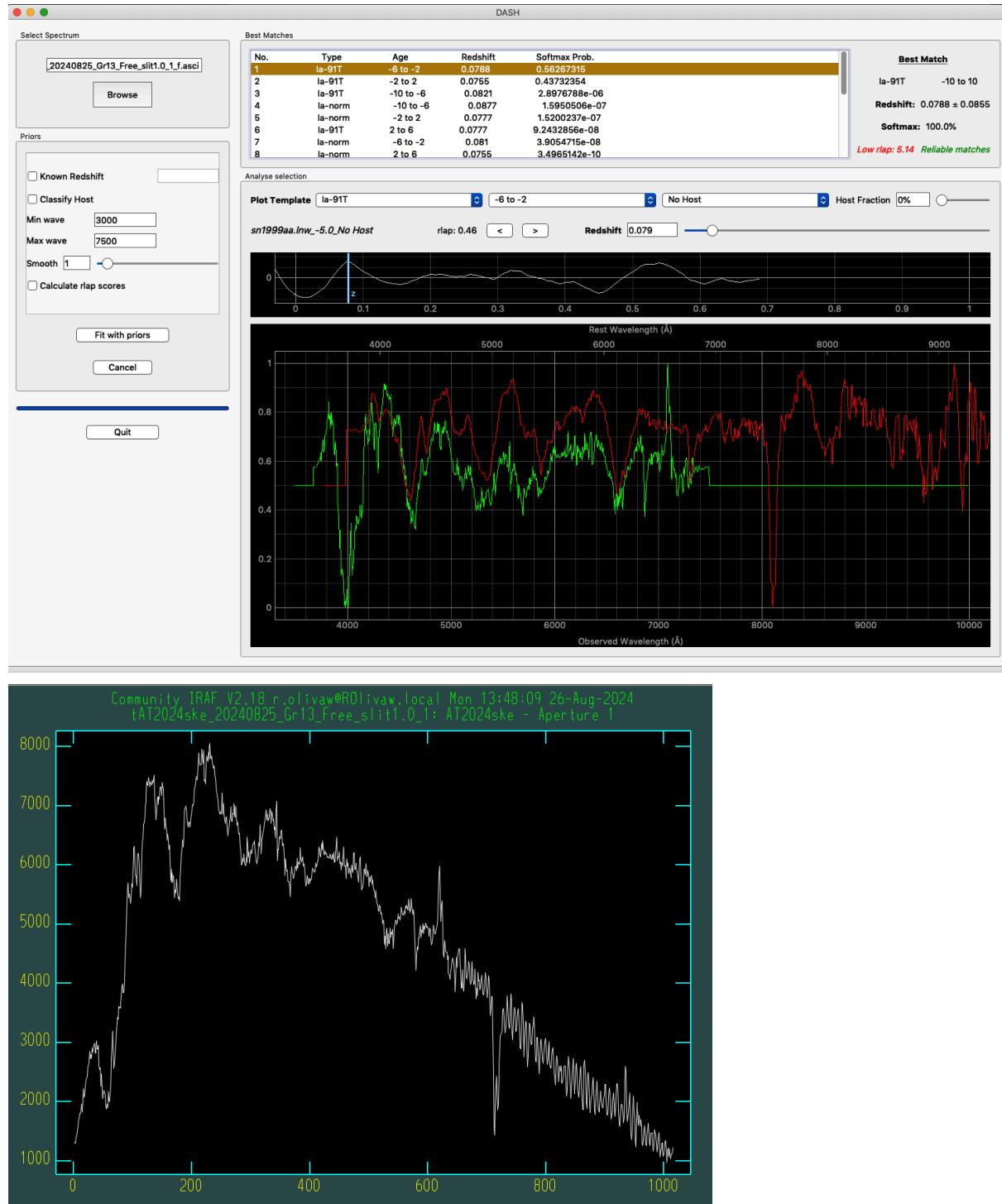
AT2024SFX

Forgot to take a screenshot but a vanilla supernova



AT2024ske
Ia-91T $z=0.0788$

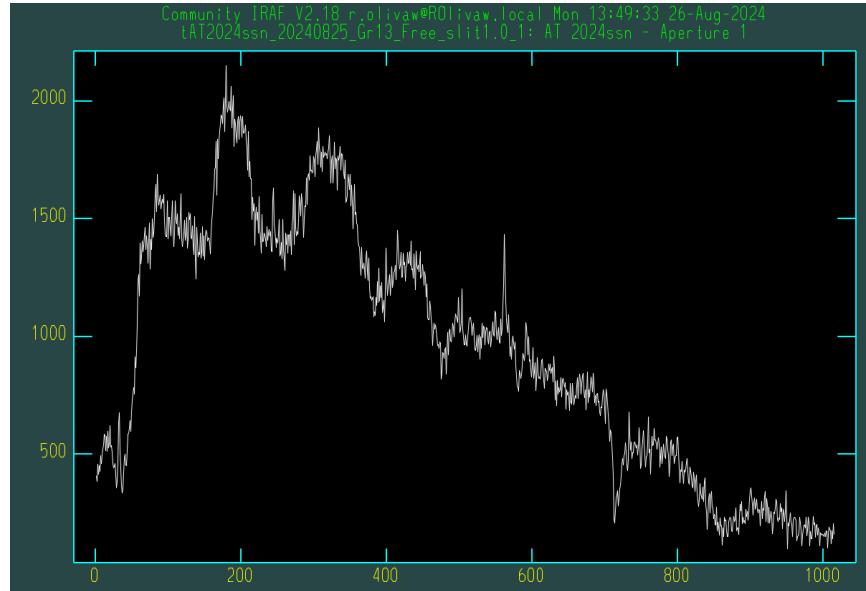
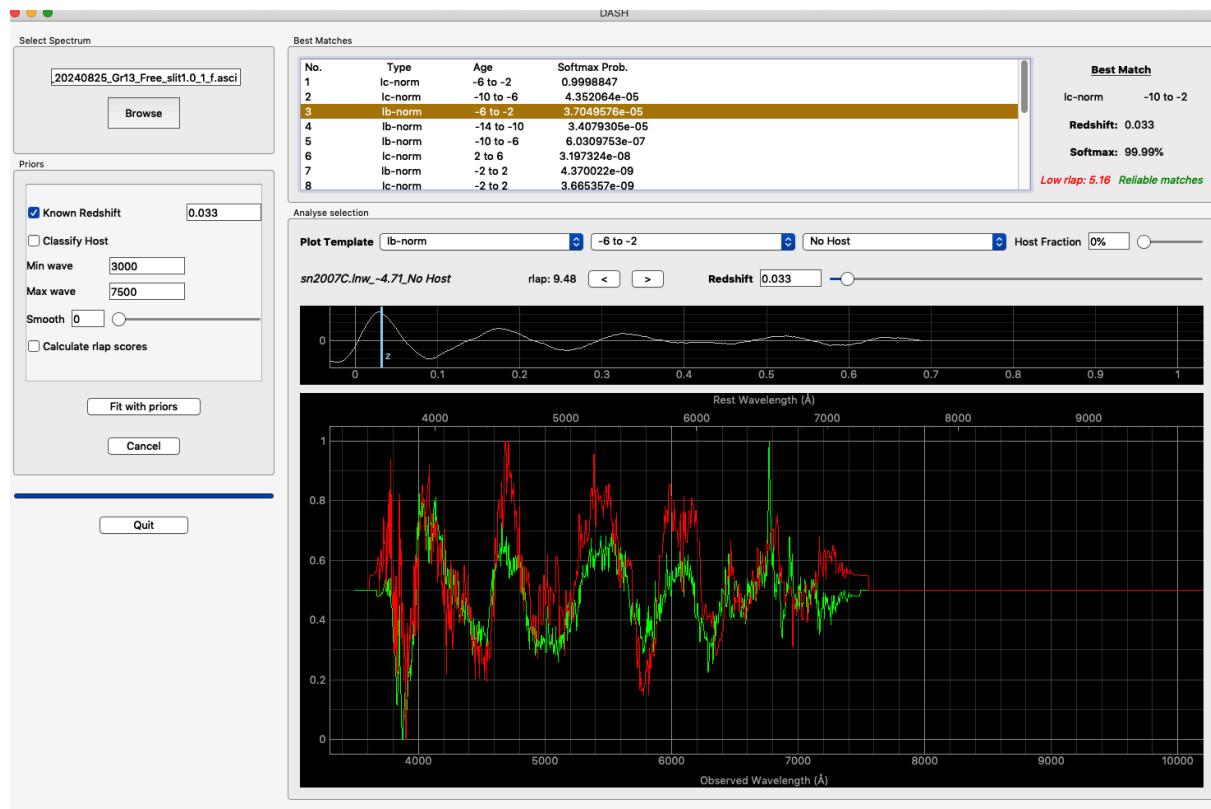
No questions asked here, even after playing with fitting range



AT2024ssn

Was hard to convince myself, but this is the best match, assuming the redshift from NED

Ib at z=0.033

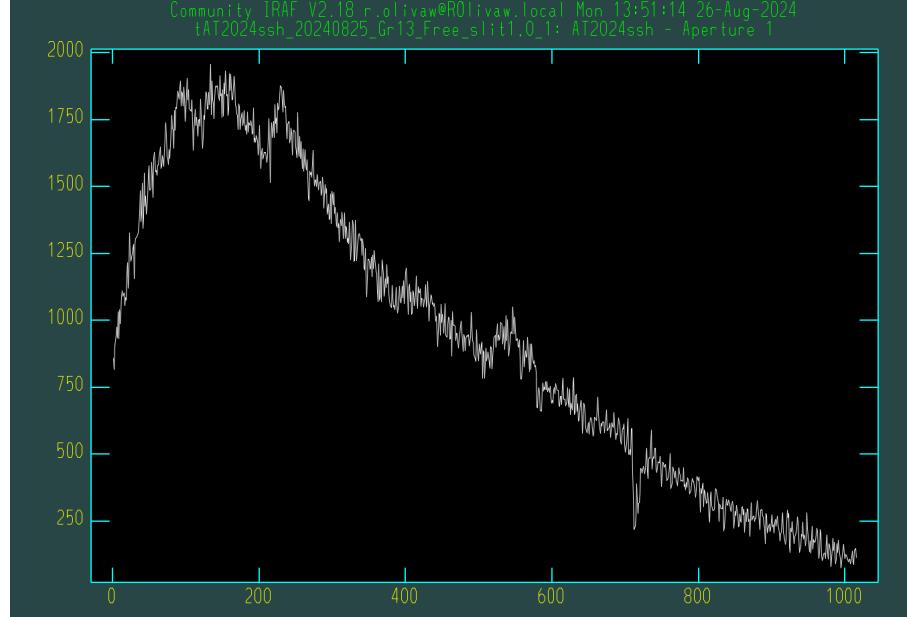
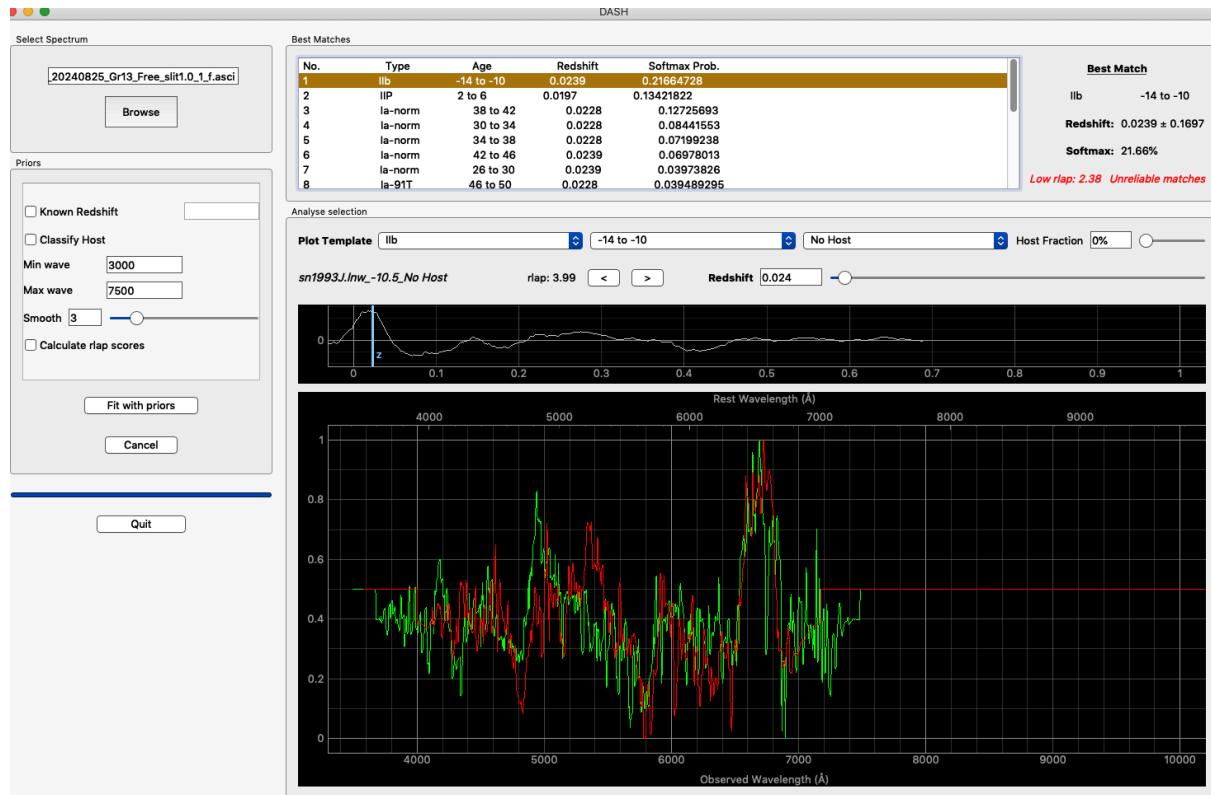


AT2024ssh

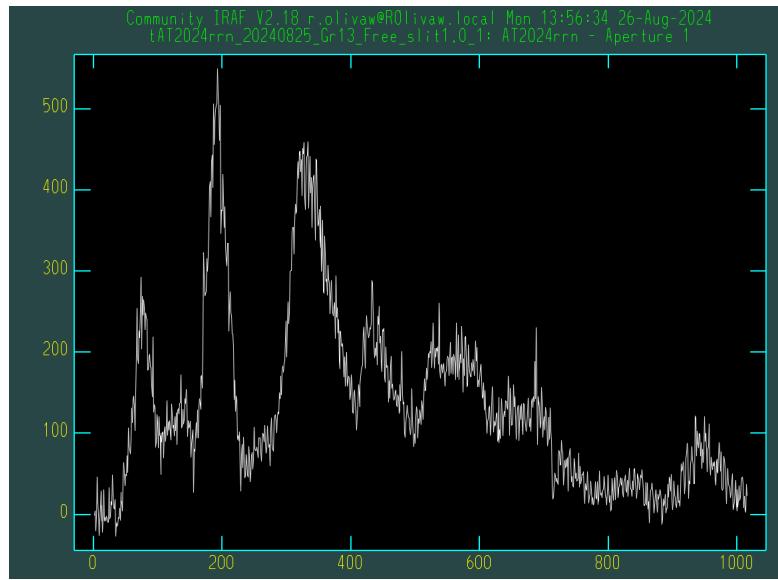
Definitely looks like a SN II

Estimated redshift with ASTRODASH should be 0.0197

I won't add anything if it's a IIb or IIP, because it's not reliable enough

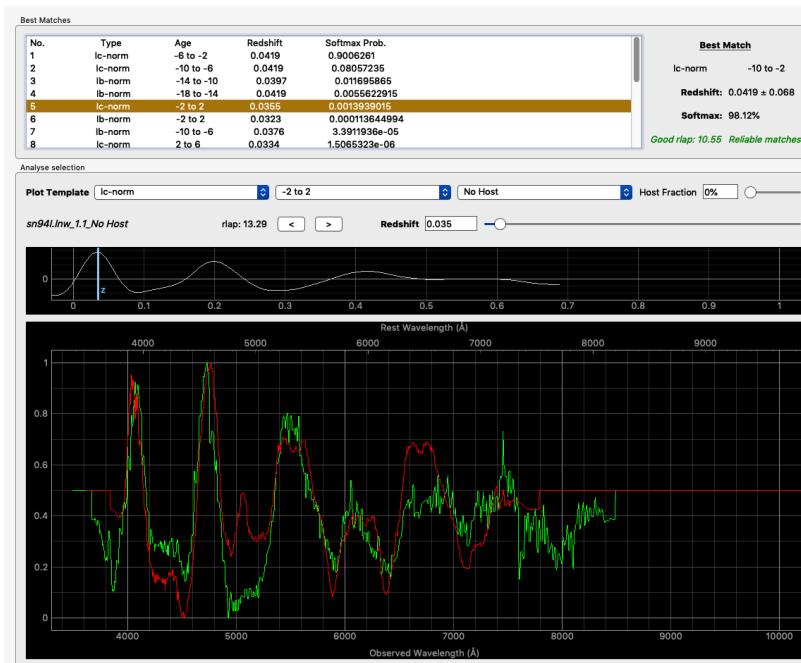


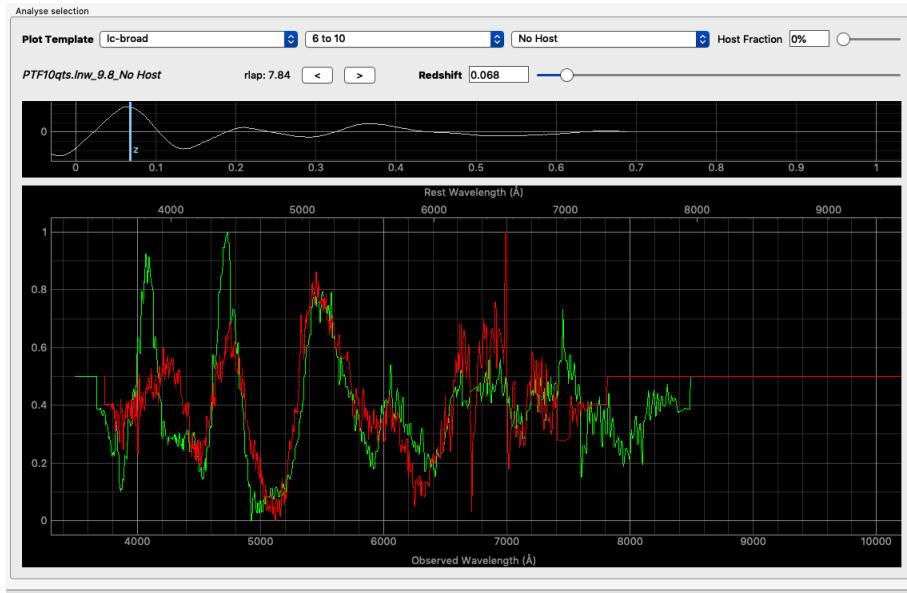
AT2024rrn



Tried to remove as much as possible the trace on the right, which is brighter, I treated it as a background

There's a redshift from ned (SUN) 0.0324. The best fits are Ic at $z=0.035$, but there's a small emission line which doesn't fit in the template. However from the images I am seeing on LASAIR/fritz, it sounds like it belongs to that galaxy... But it fits better a Ic BL with $z=0.068$





AT2024skt

Very faint and strong background, looks like it was obtained and pushed through astronomical dawn...

Ddd

Very noisy, but can probably get a redshift cause it looks like a galaxy

Will just put that SN and $z=0.02$

