



# TIC 307210830 TRANSITS VALIDATION REPORT

This document is created by the WATSON report generator (<https://github.com/PlanetHunters/watson>) and focuses on the target star TIC 307210830.

RA (deg)	Dec (deg)	V (mag)	J (mag)	H (mag)	K (mag)
8:18:07.62	-68:18:46.80	-	-	-	-

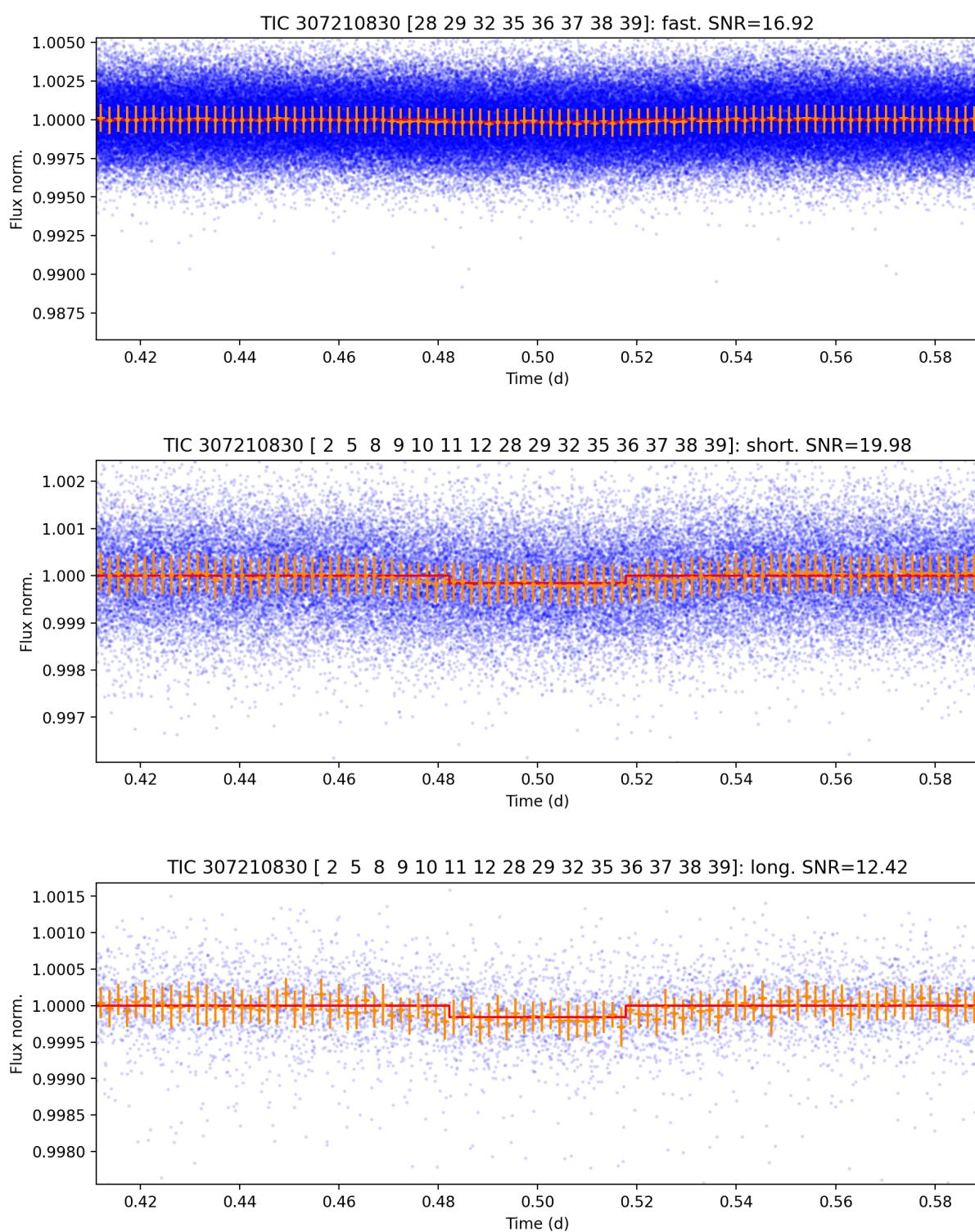
**Table 1:** The proposed target parameters.

T0 (d)	Period (d)	Duration (h)	Depth (ppt)
1354.7156	1.0492	0.89	0.158

**Table 2:** The candidate parameters.

Metric	Value	Passed
fast_snr	16.921	True
short_snr	19.98	True
long_snr	12.417	True
folded_cadences_snr	0.189	True
snr_p_t0	41.832	True
snr_p_2t0	11.604	False
snr_2p_t0	31.778	True
snr_2p_2t0	27.86	True
snr_p2_t0	11.604	False
snr_p2_t02	0.001	True
snr_p_score	0.277	False
snr_2p_score	3.918	True
snr_p2_score	0.277	False
transit_offset_ra	124.545	False
transit_offset_dec	-68.326	False
transit_offset_err	0.008	True
transit_offset_pos	0.019	False
core_flux_snr	7.277	True
halo_flux_snr	22.774	True
og_score	3.129	False
centroids_ra_snr	-3.945	False
centroids_dec_snr	12.137	False

**Table 3:** The results of the numerical tests.



**Figure 1:** Folded curve for all available cadences.



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TIC 307210830 Transits depth analysis  $T_0=1354.72$   $P=1.05d$

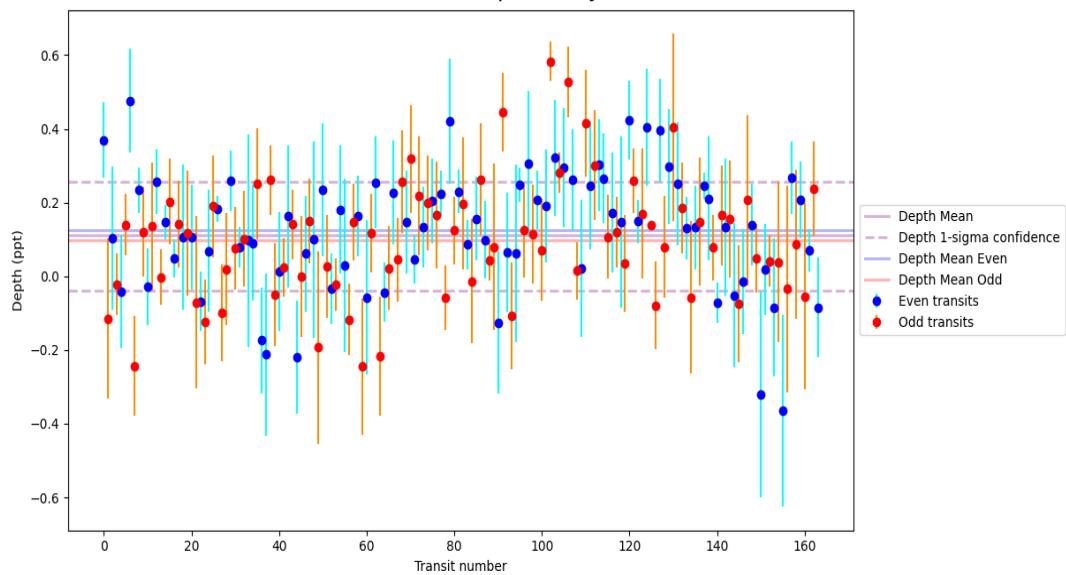


Figure 2: The candidate single-transits depths plot.

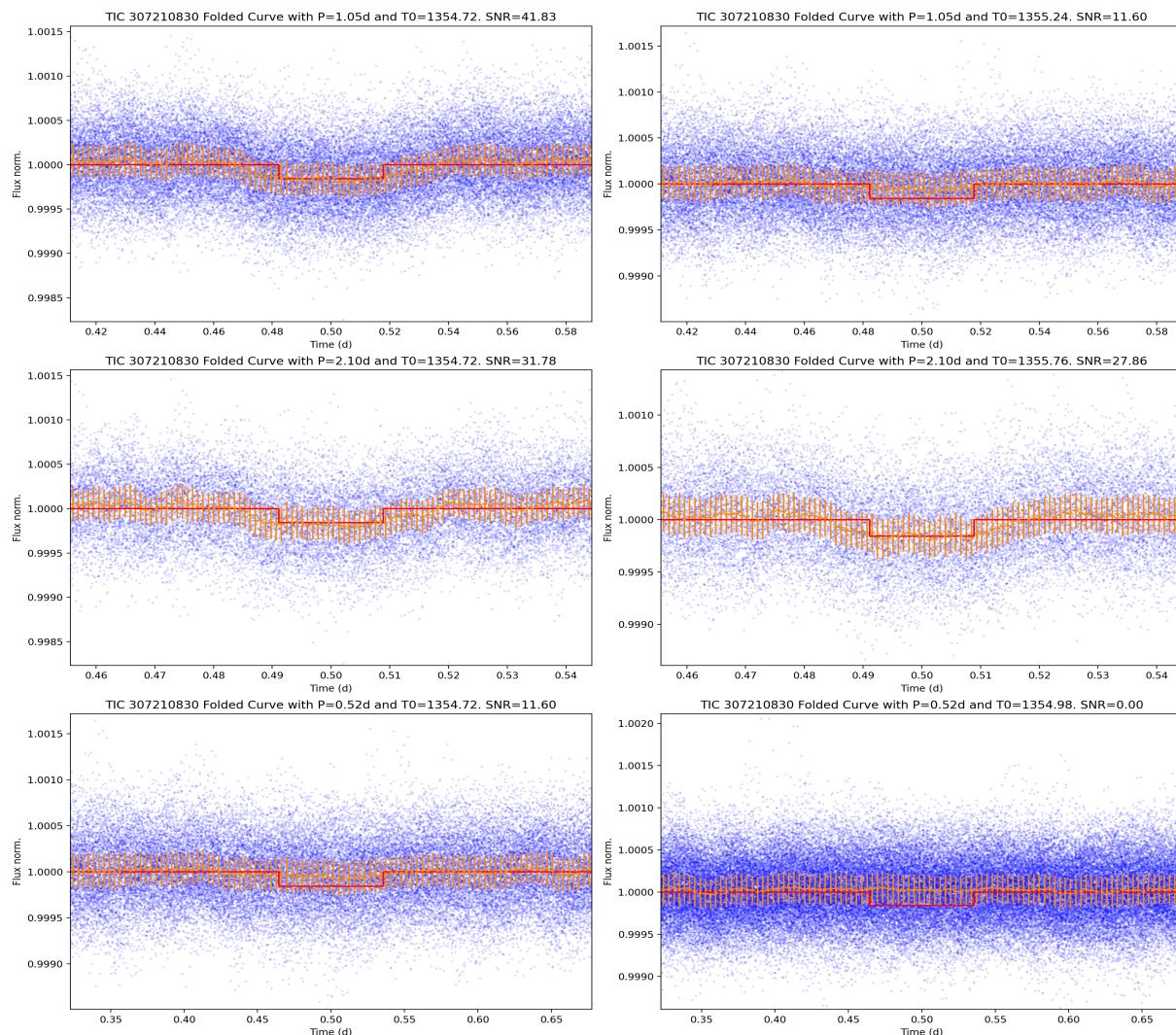
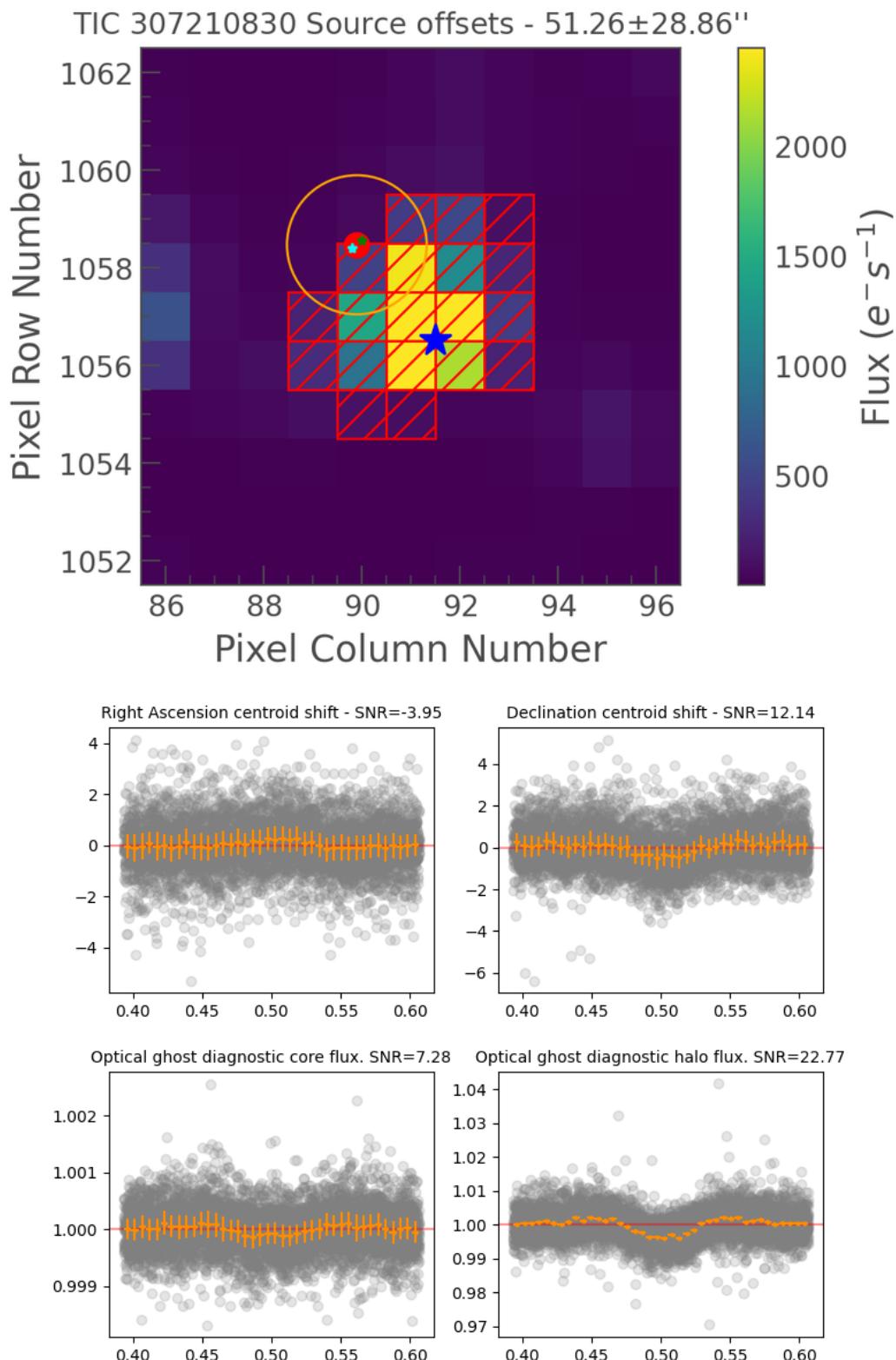
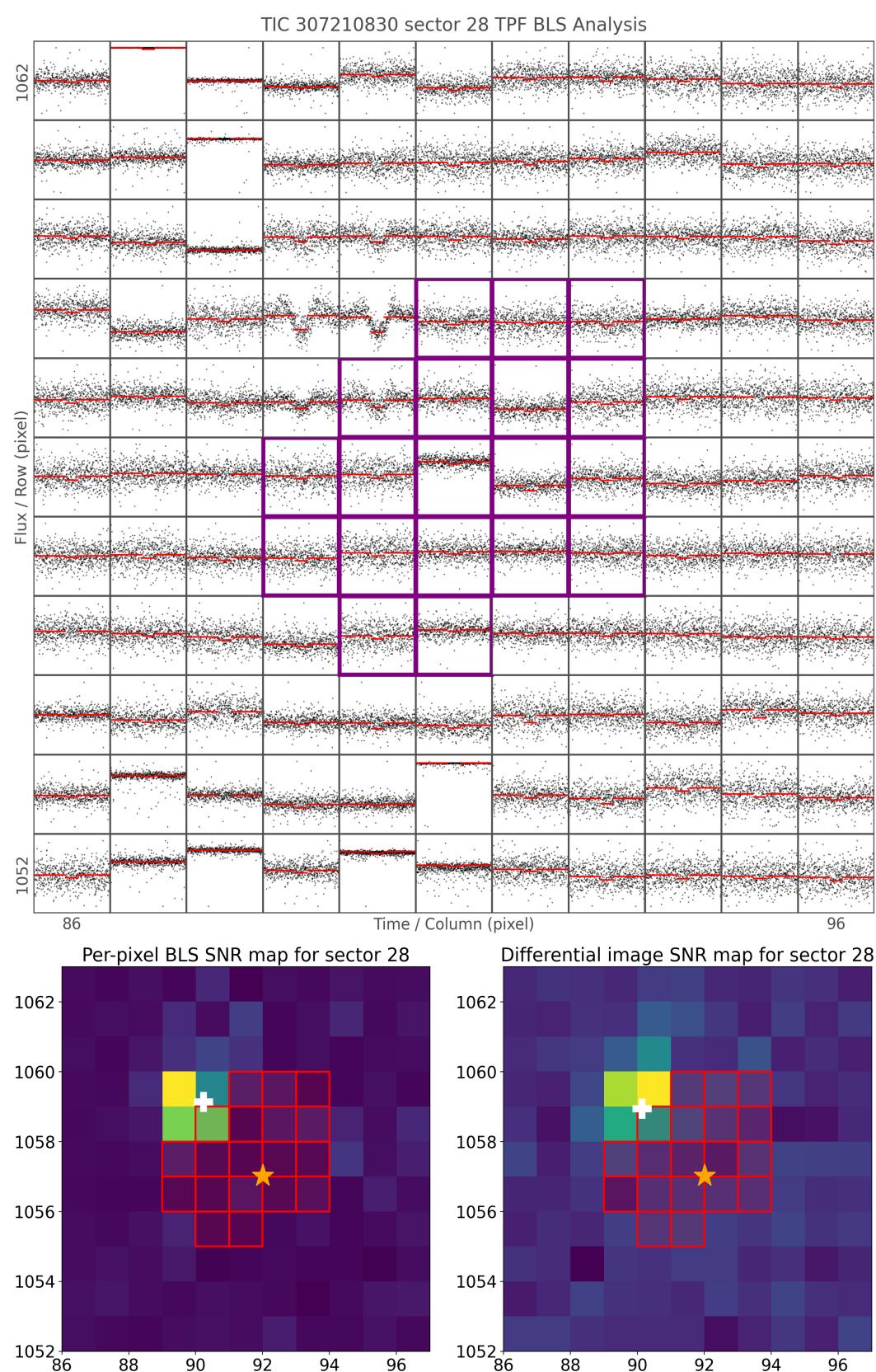


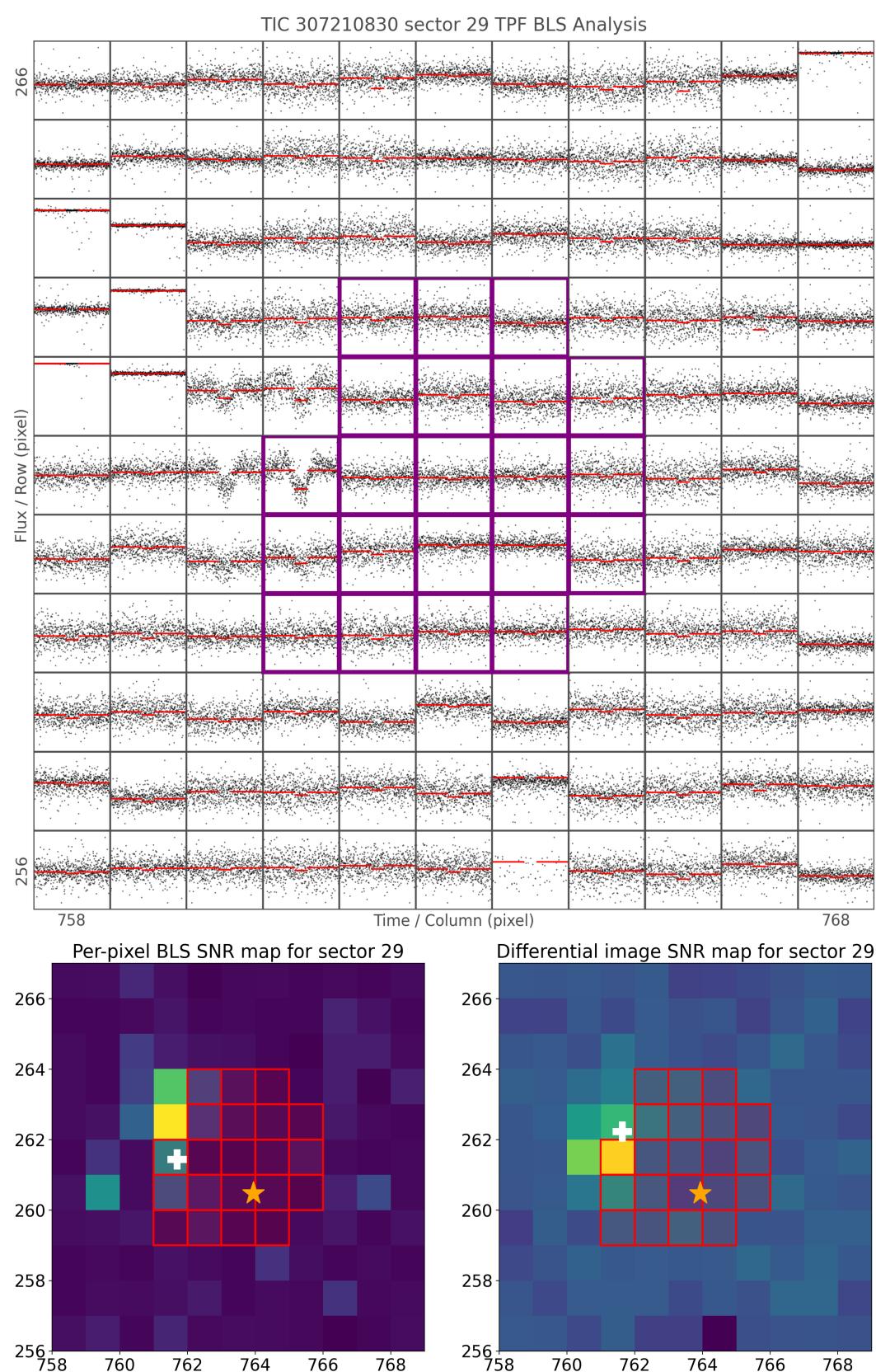
Figure 3: Above, the candidate folded at its found period for the found epoch and epoch +  $P/2$ . Middle, the candidate folded at its harmonic for the found epoch and epoch +  $P$ . Bottom, the candidate folded at its subharmonic for the found epoch and epoch +  $P/2$ , where the candidate has been masked.



**Figure 4:** Above, the computed target offset (red circle) from the differential image offset (cyan dot) and the per-pixel BLS SNR offset (green dot). Middle left, the right ascension centroid shift with binning. Middle right, the declination centroid shift with binning. Bottom left, optical ghost diagnostic curve for core flux. Bottom right, optical ghost diagnostic curve for halo flux



**Figure 5:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.

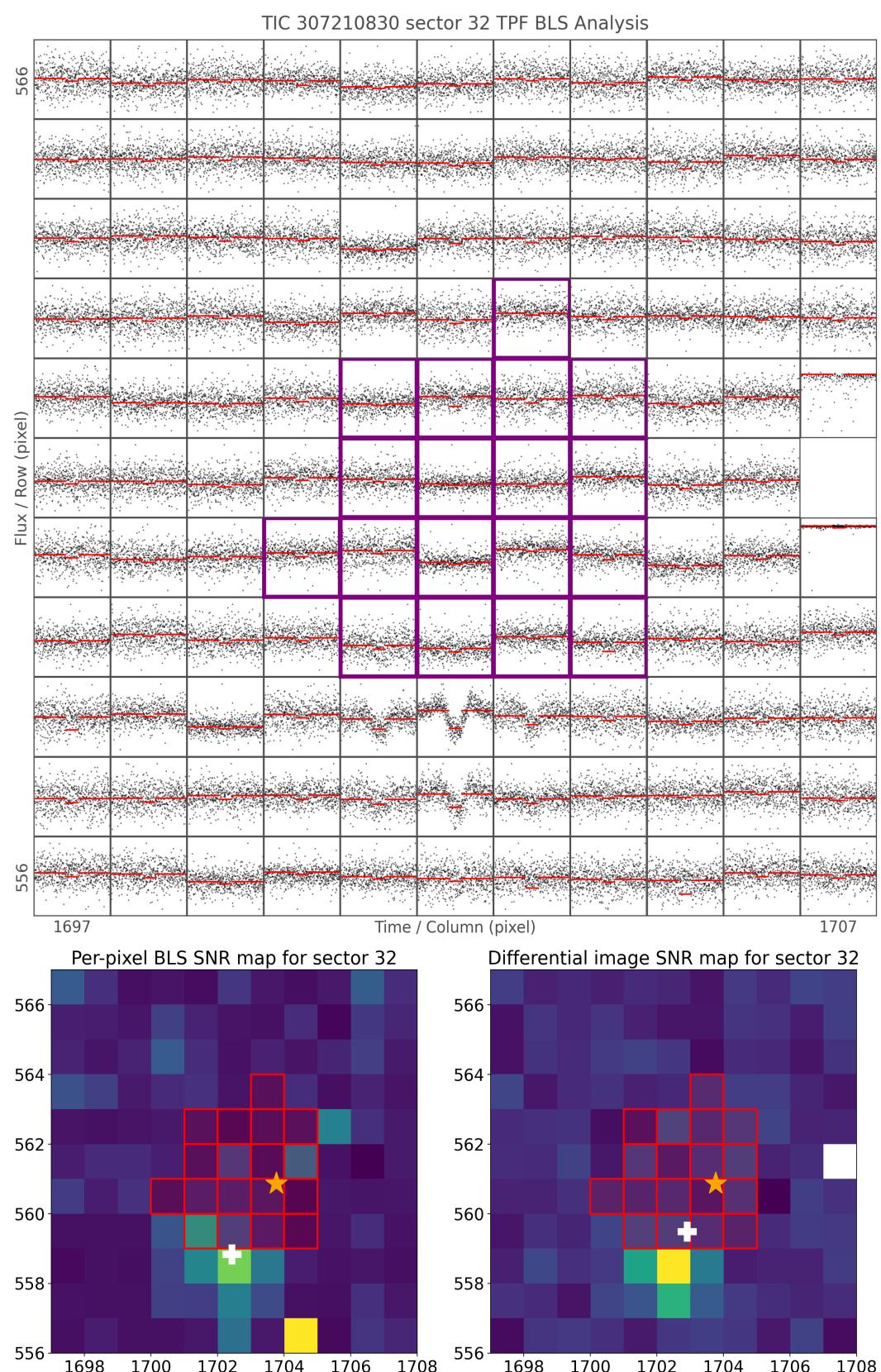


**Figure 6:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.

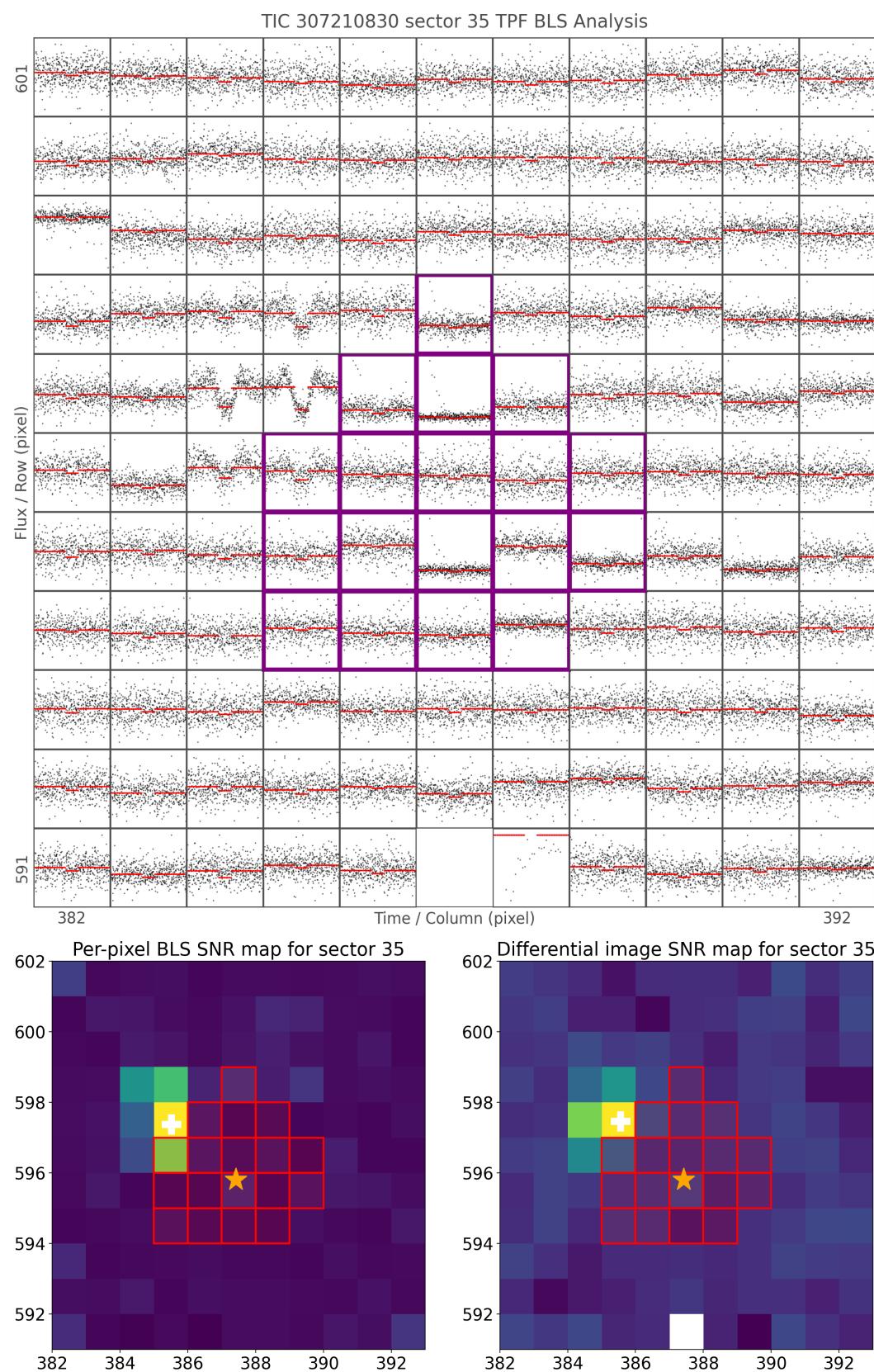


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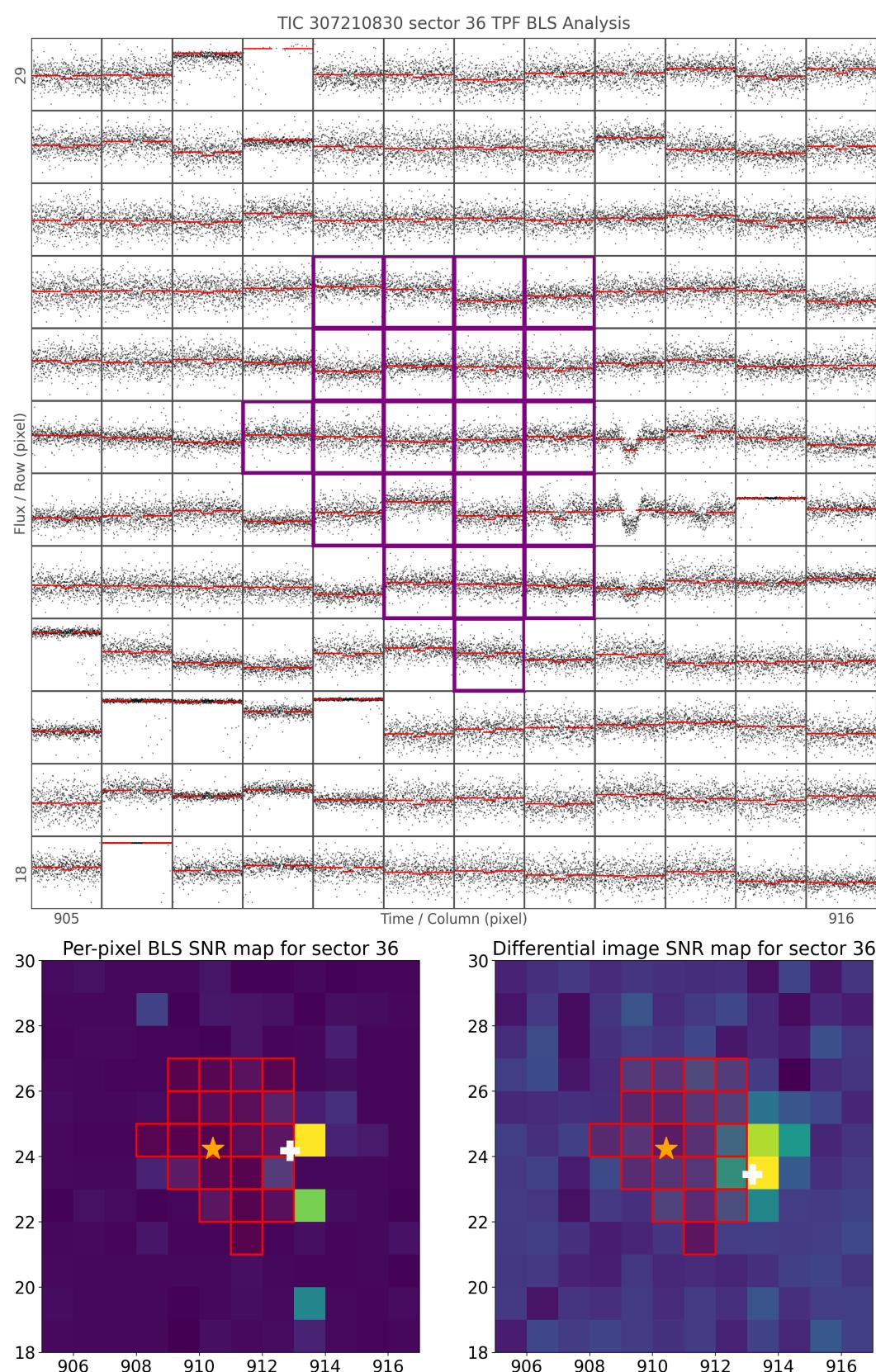
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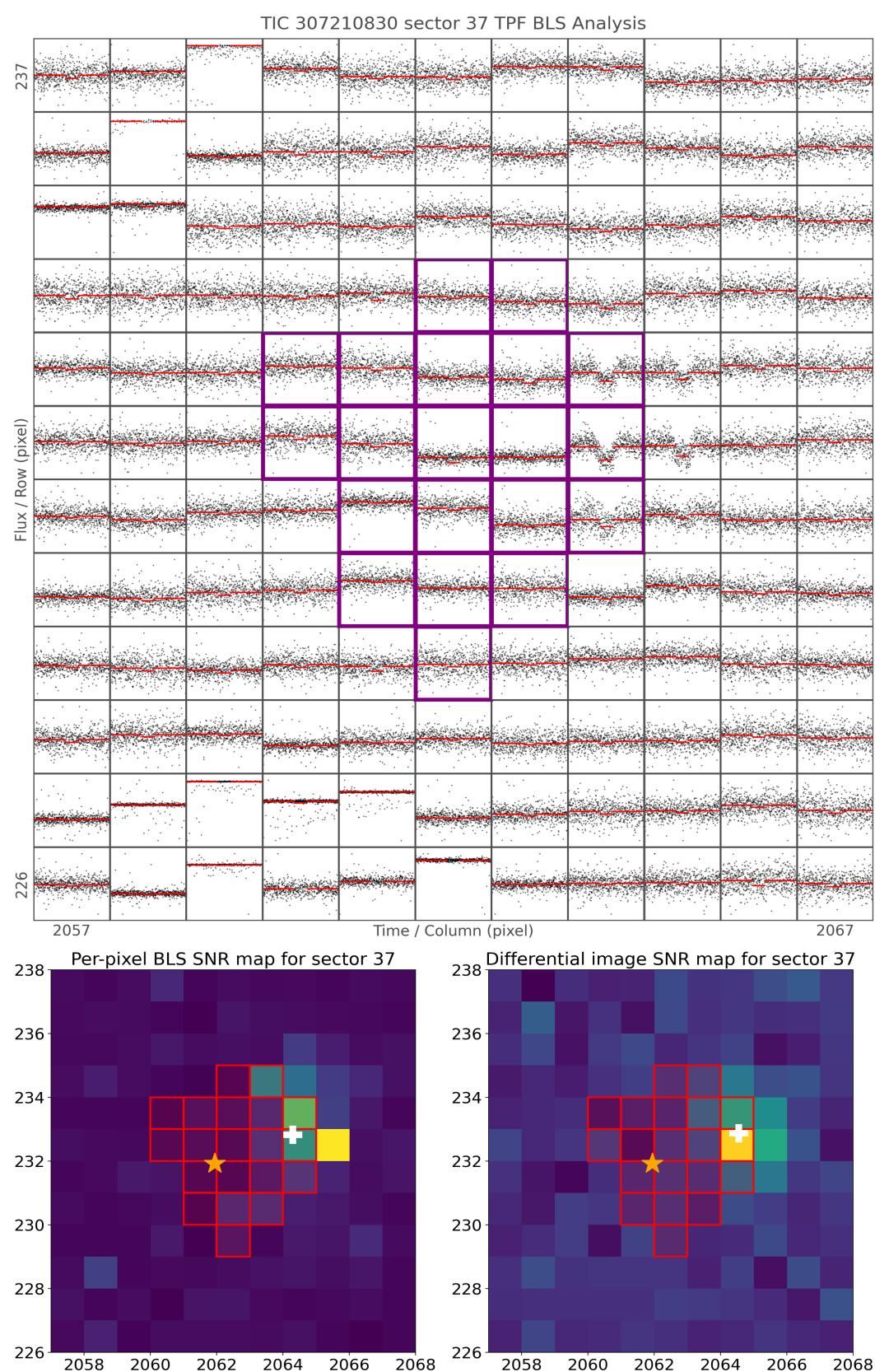
**Figure 7:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



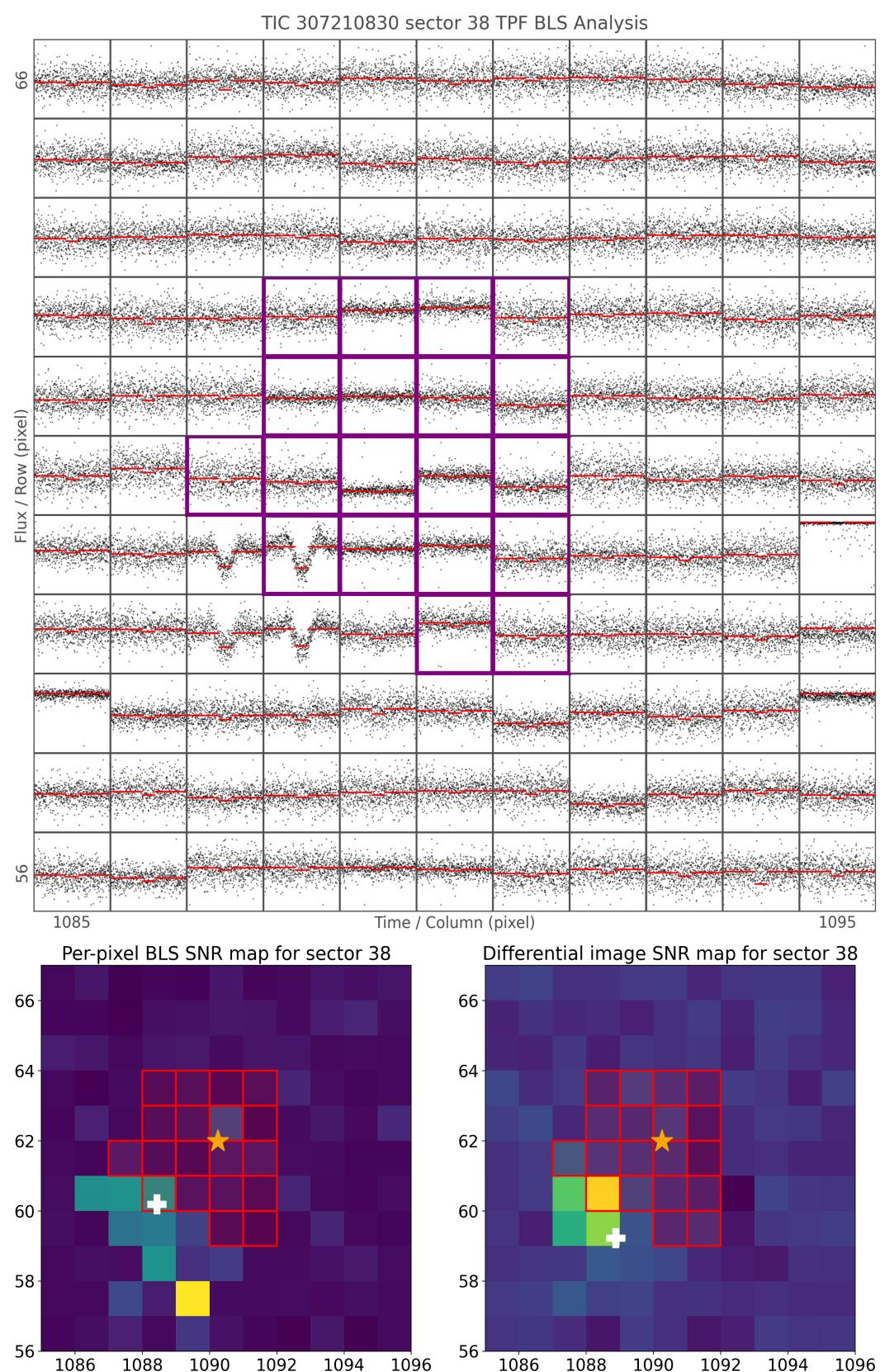
**Figure 8:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



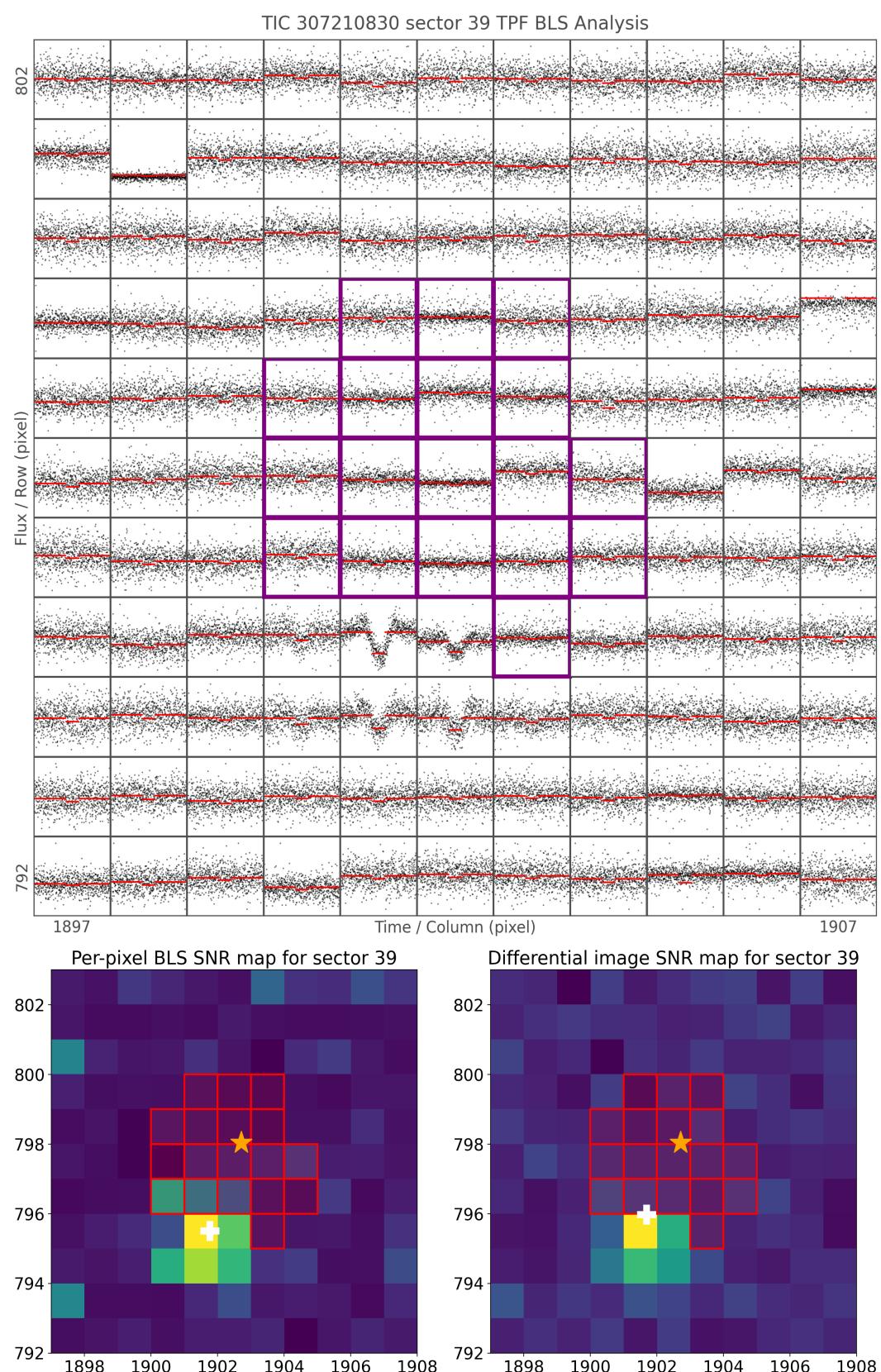
**Figure 9:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



**Figure 10:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



**Figure 11:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



**Figure 12:** Above, the TPF and per-pixel BLS SNR best fits. Bottom left, the per-pixel BLS SNR for each pixel. Bottom right, the differential images SNR for each pixel. The target position is represented by a red star and the TPF independent source offset is represented by a white plus.



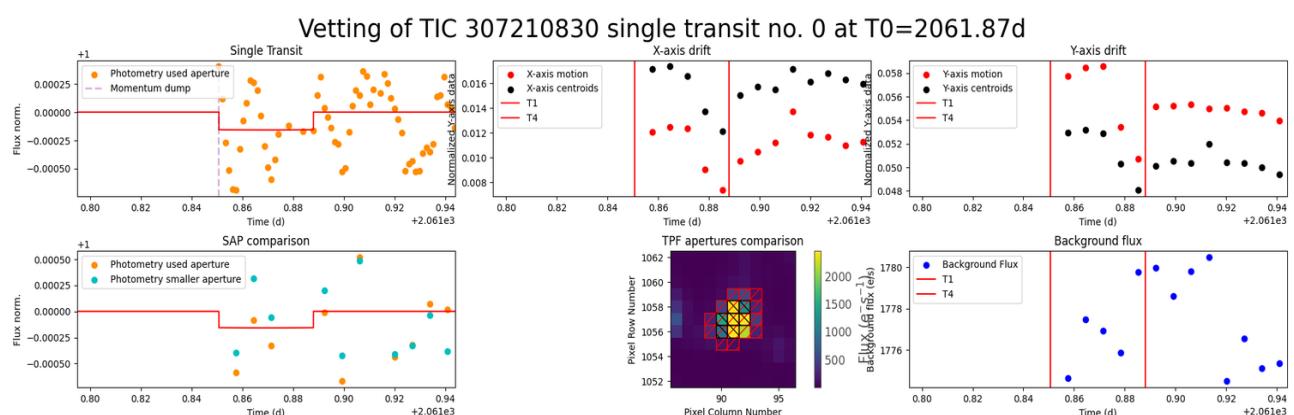
The next pages will contain each of the single-transits vetting sheets with the next information:

1. **TOP-LEFT:** Plot with single transit photometry found in the analyzed curve (with momentum dumps, if any).
2. **TOP-CENTER:** Plot with X-axis data drift (X-axis motion vs X-axis centroid offset) around the transit times.
3. **TOP-RIGHT:** Plot with Y-axis data drift (Y-axis motion vs Y-axis centroid offset) around the transit times.
4. **CENTER-LEFT:** Plot with SAP for used aperture vs SAP for smaller aperture around the transit times.
5. **CENTER-CENTER:** Plot with smaller aperture over used aperture on the target.
6. **CENTER-RIGHT:** Plot with single transit photometry found in the analyzed curve around the transit times.
7. **BOTTOM:** Plot TPF flux measurements for each pixel around the transit times.



# WATSON Transits Validation Report: TIC 307210830

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Target ID: 307210830, 2061.86 - 2061.94 [BTJD days]

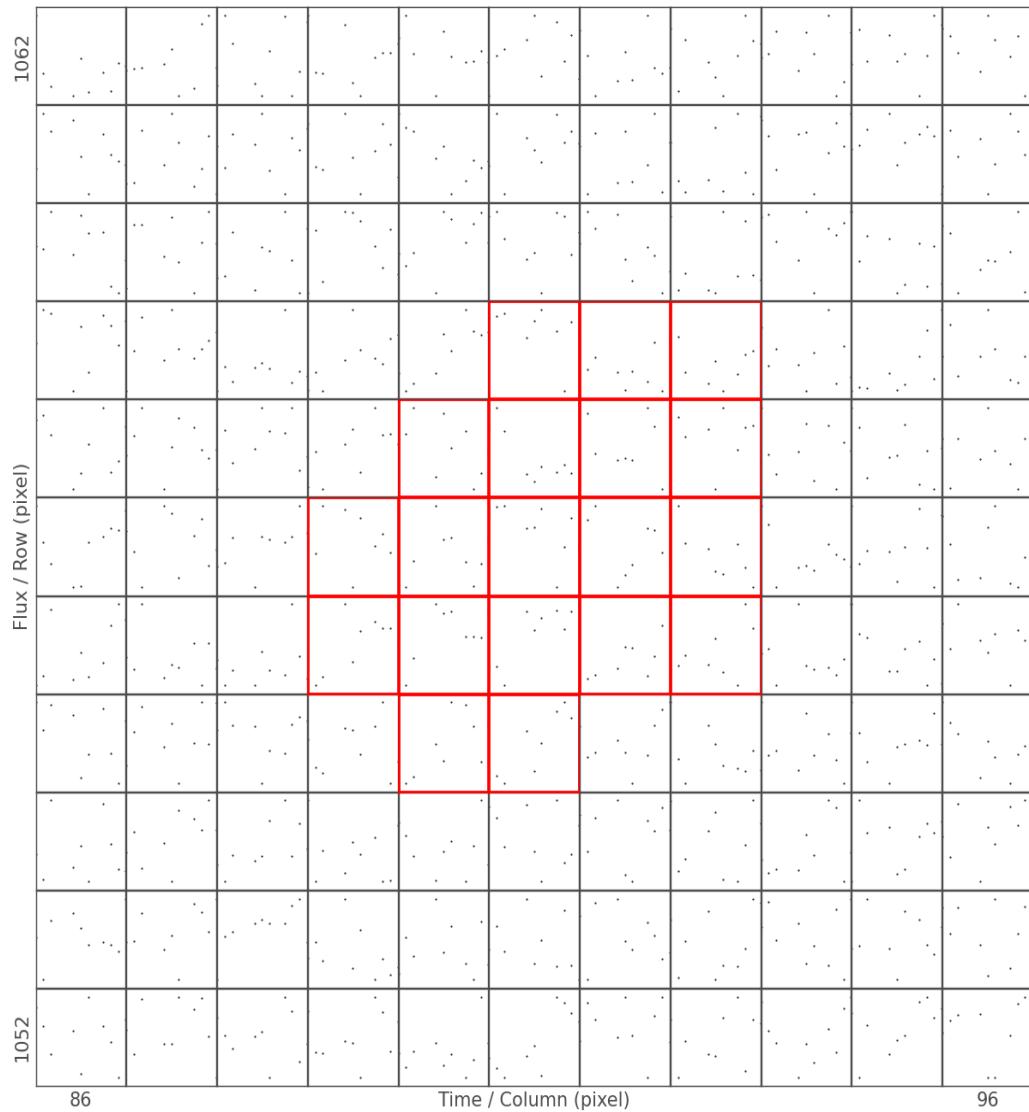
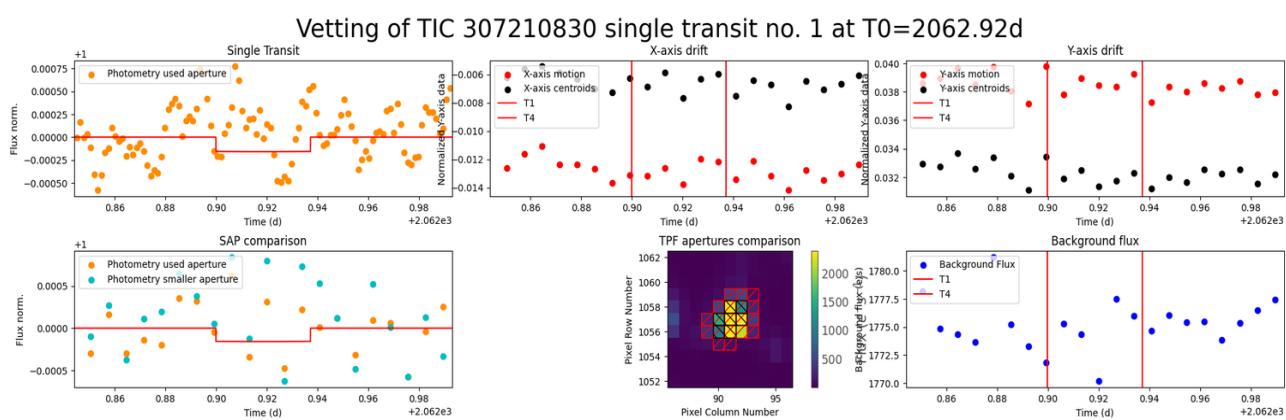


Figure 13: The single transit no. 0 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:43



Target ID: 307210830, 2062.85 - 2062.99 [BTJD days]

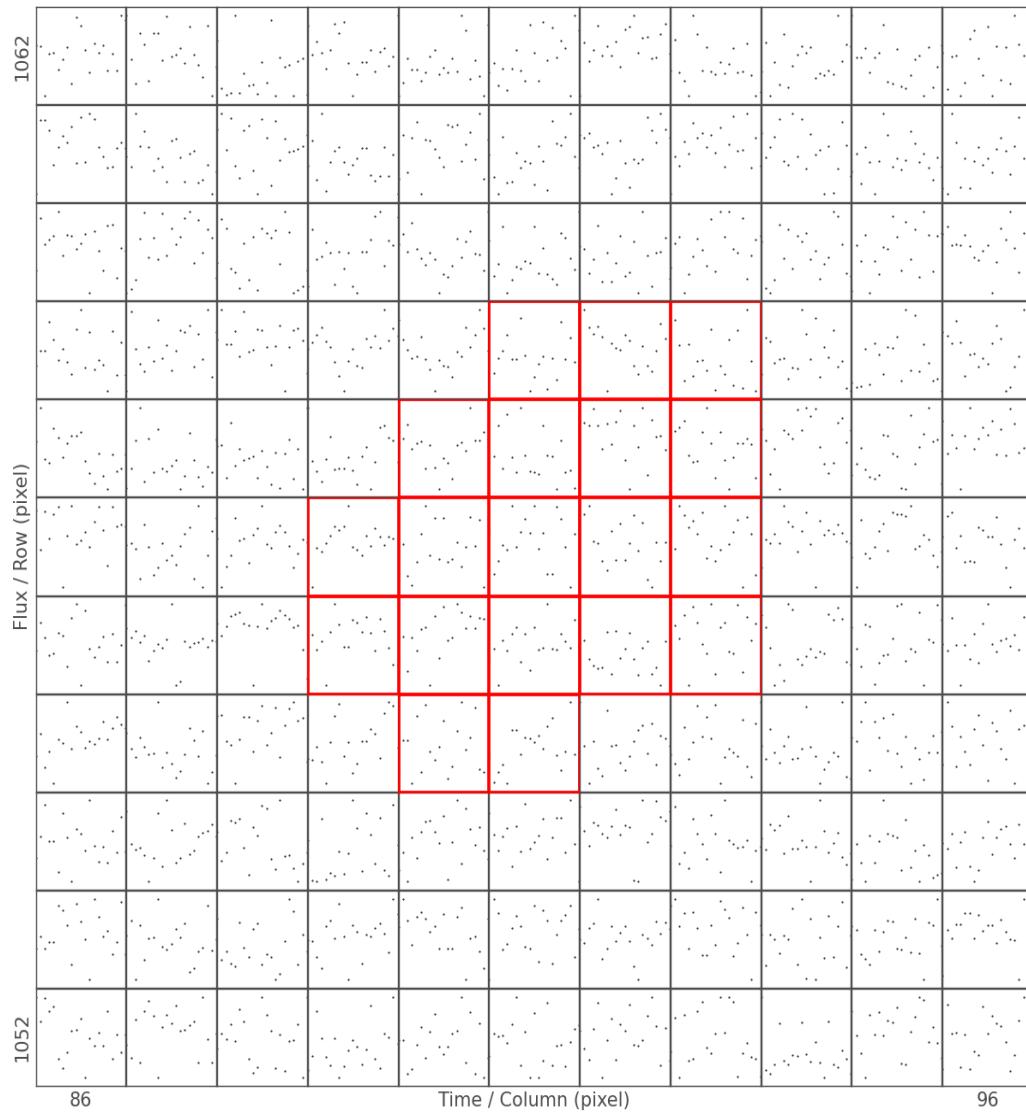
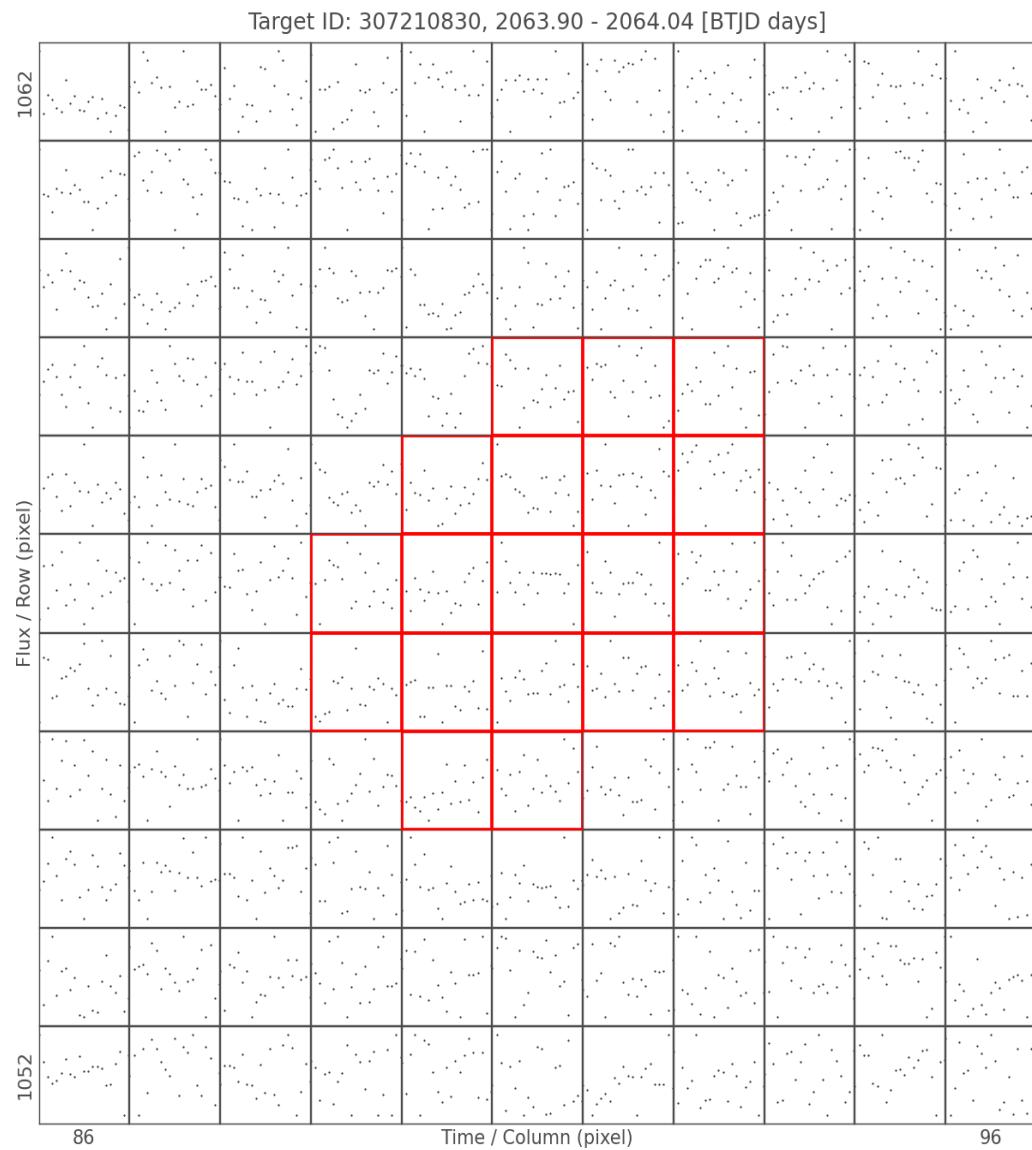
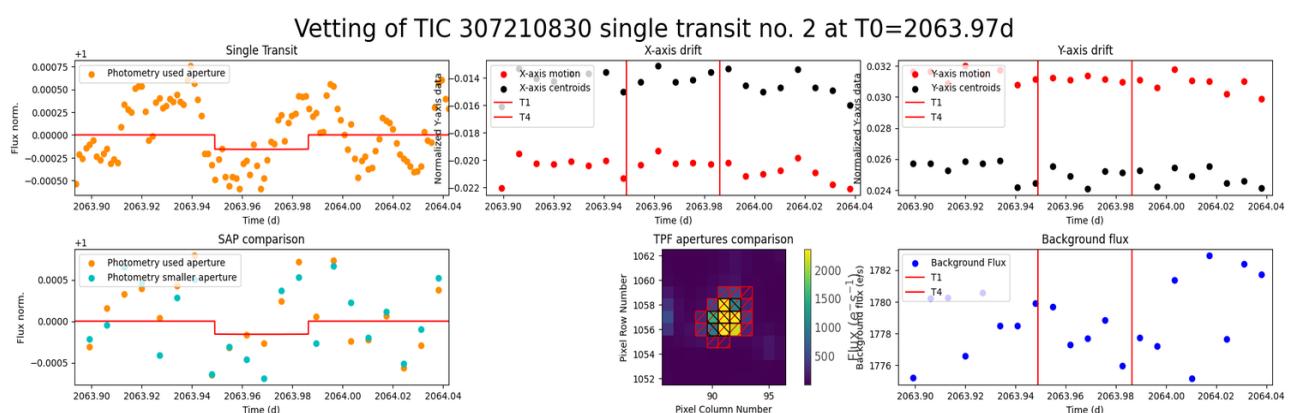


Figure 14: The single transit no. 1 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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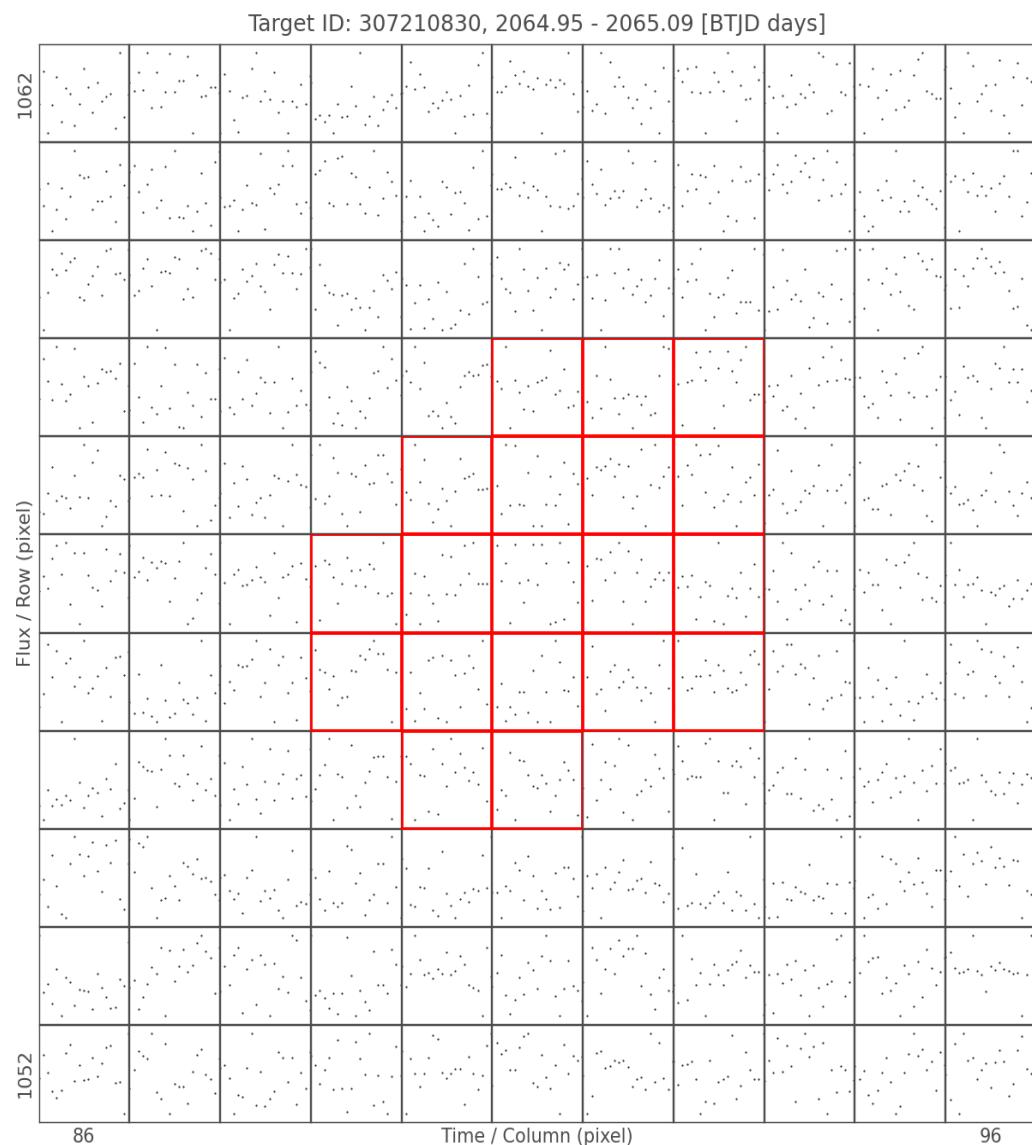
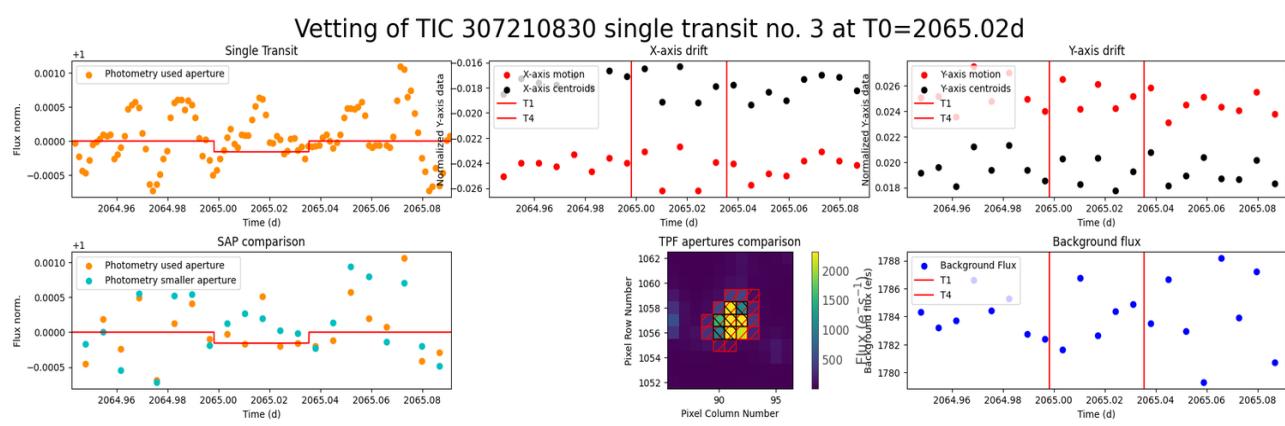


**Figure 15:** The single transit no. 2 vetting plots



## WATSON Transits Validation Report: TIC 307210830

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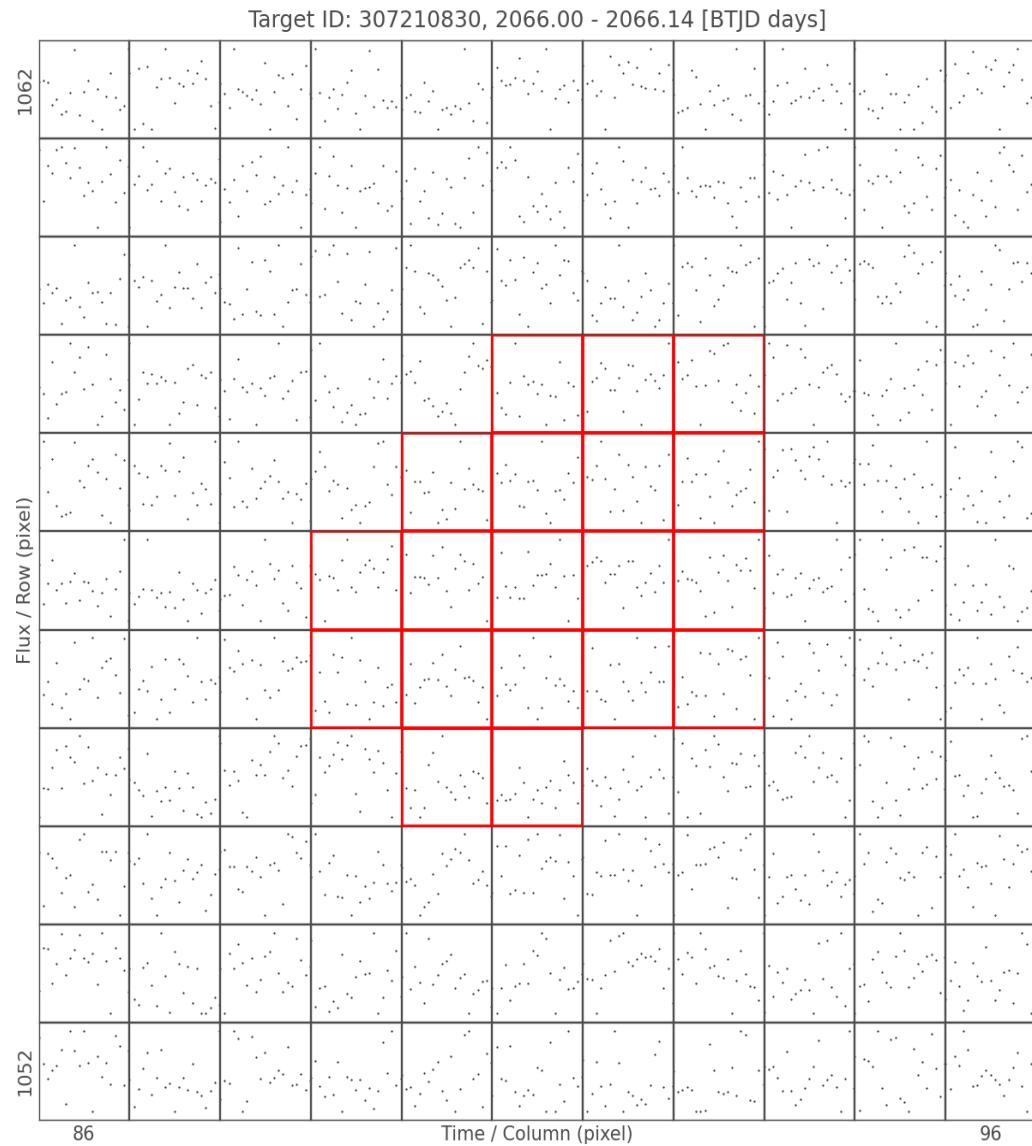
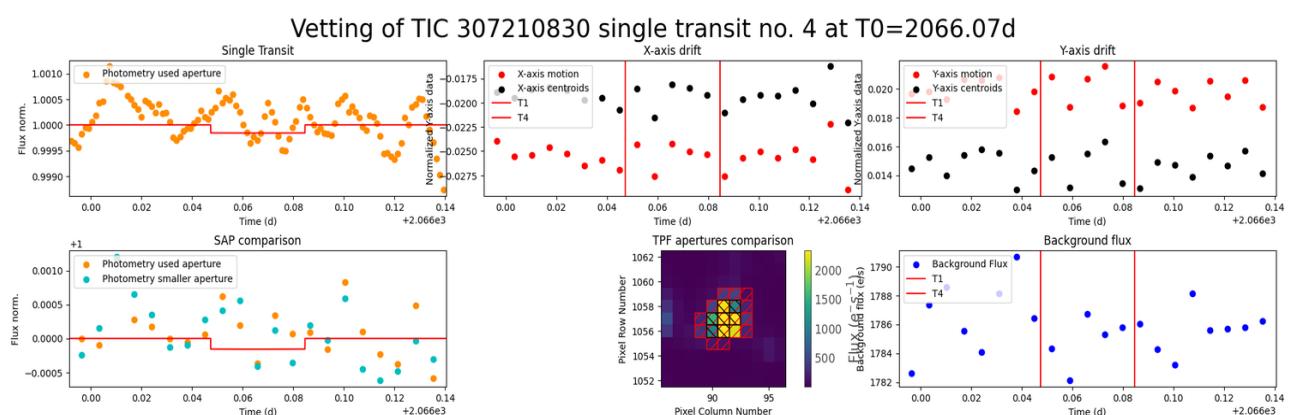


**Figure 16:** The single transit no. 3 vetting plots



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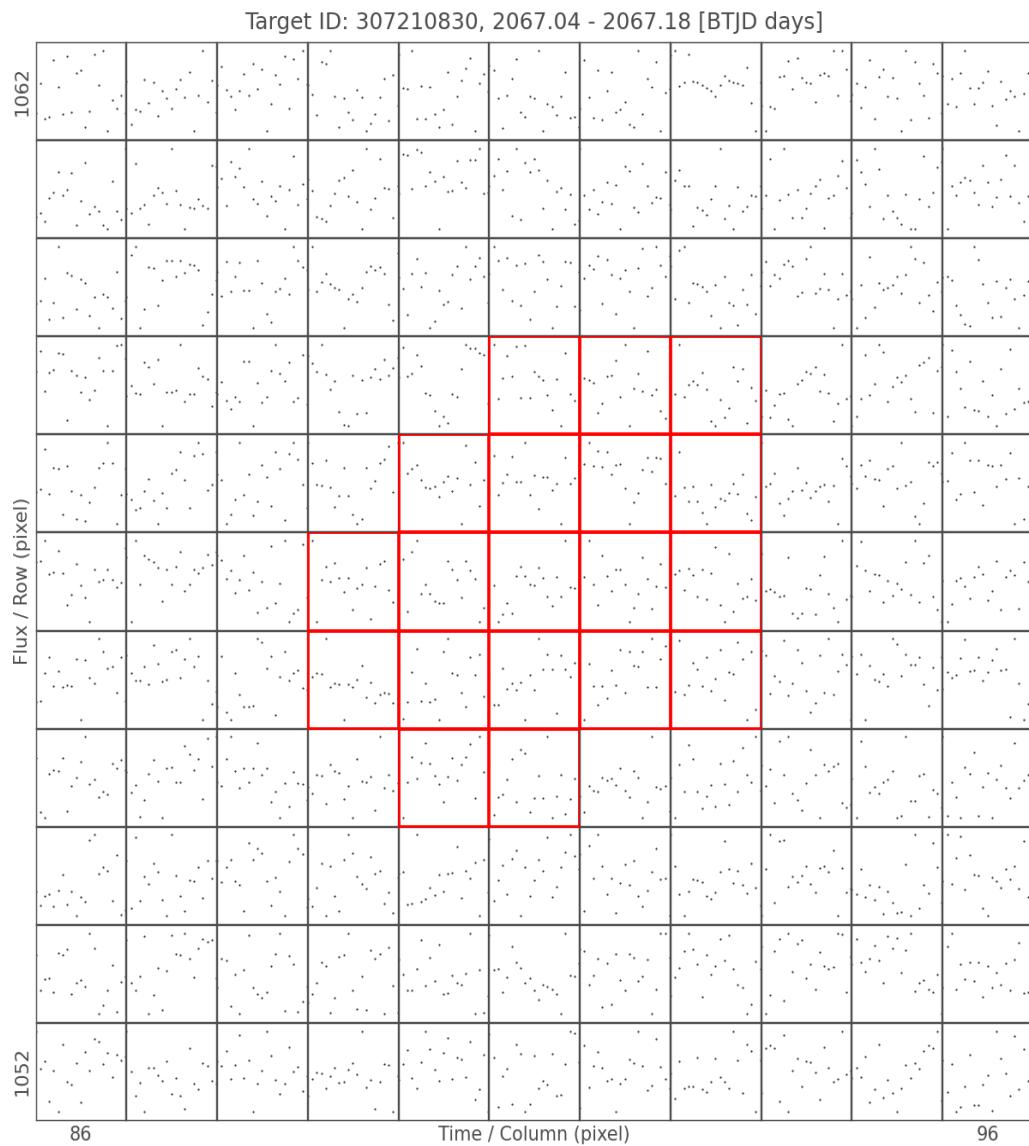
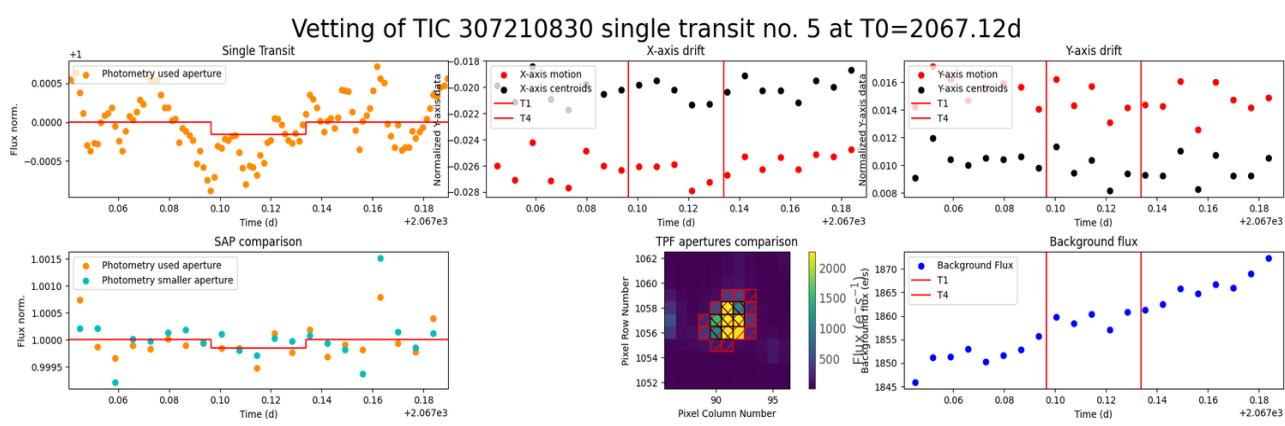


**Figure 17:** The single transit no. 4 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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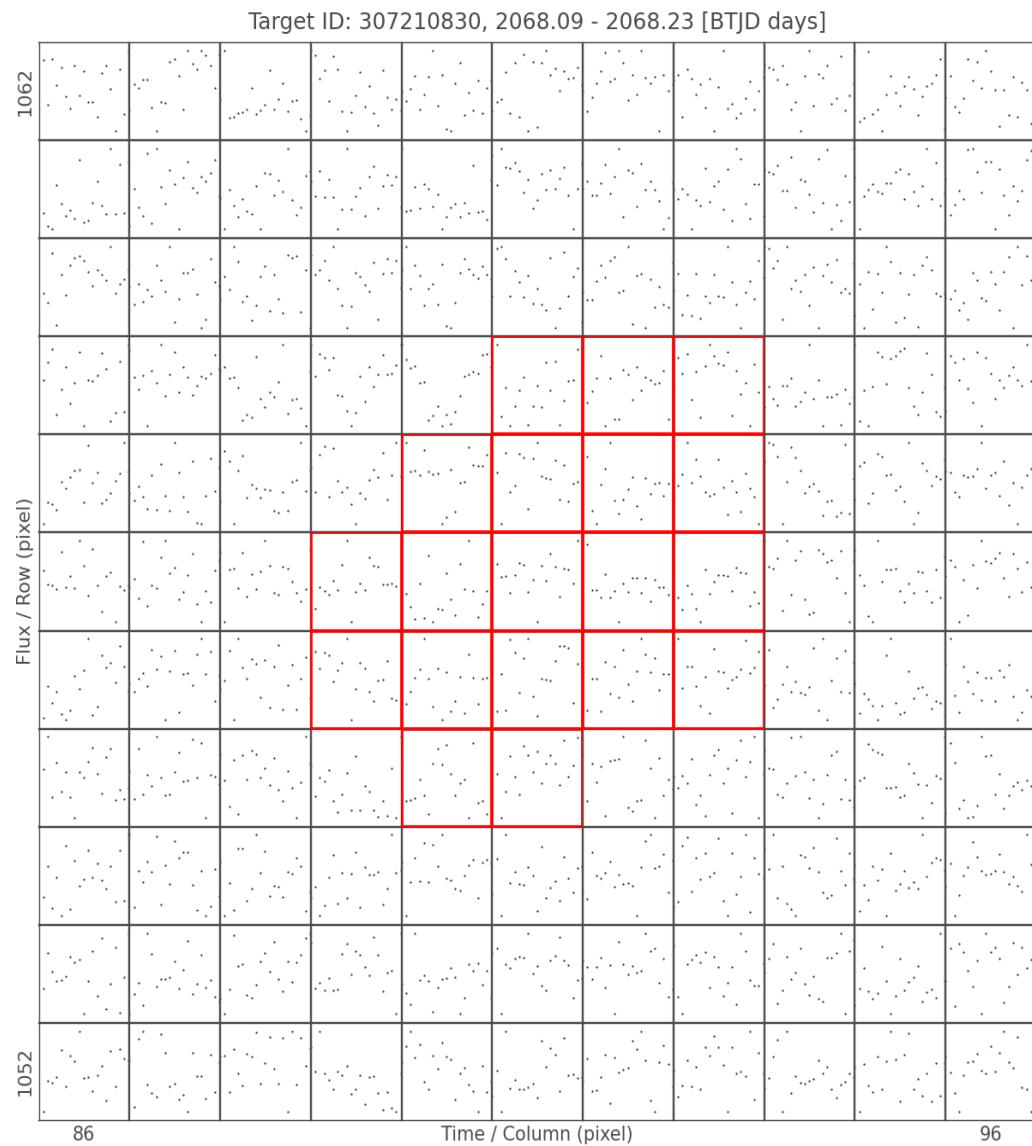
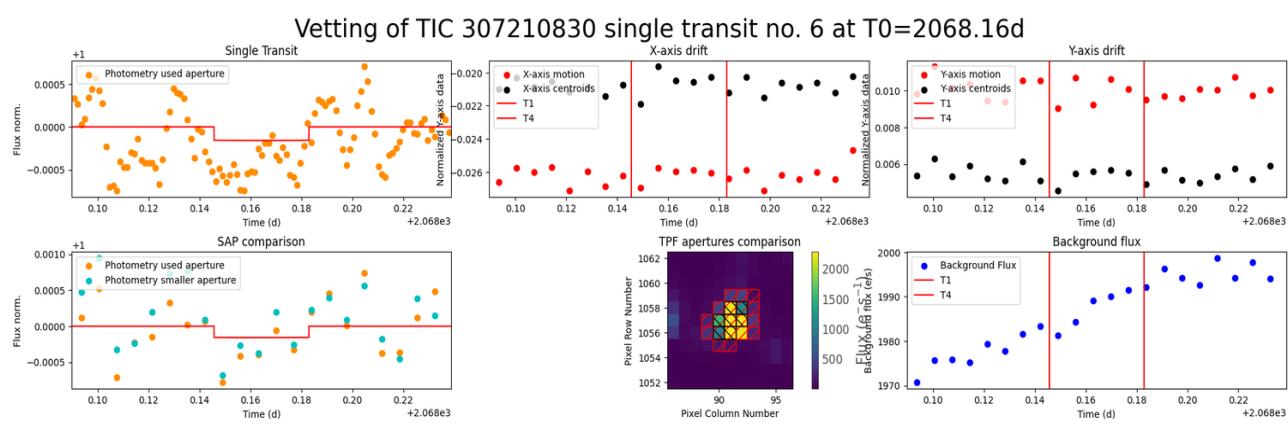


**Figure 18:** The single transit no. 5 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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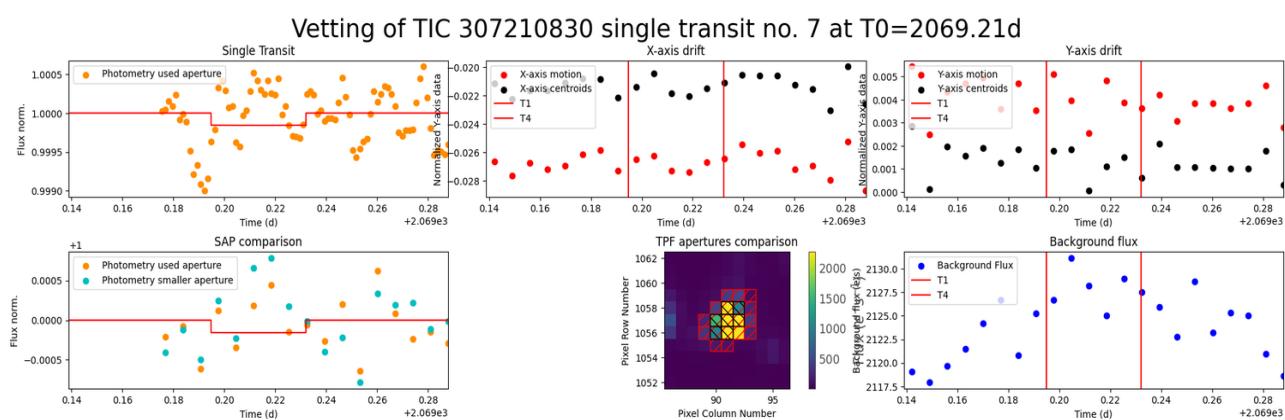


**Figure 19:** The single transit no. 6 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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Target ID: 307210830, 2069.18 - 2069.29 [BTJD days]

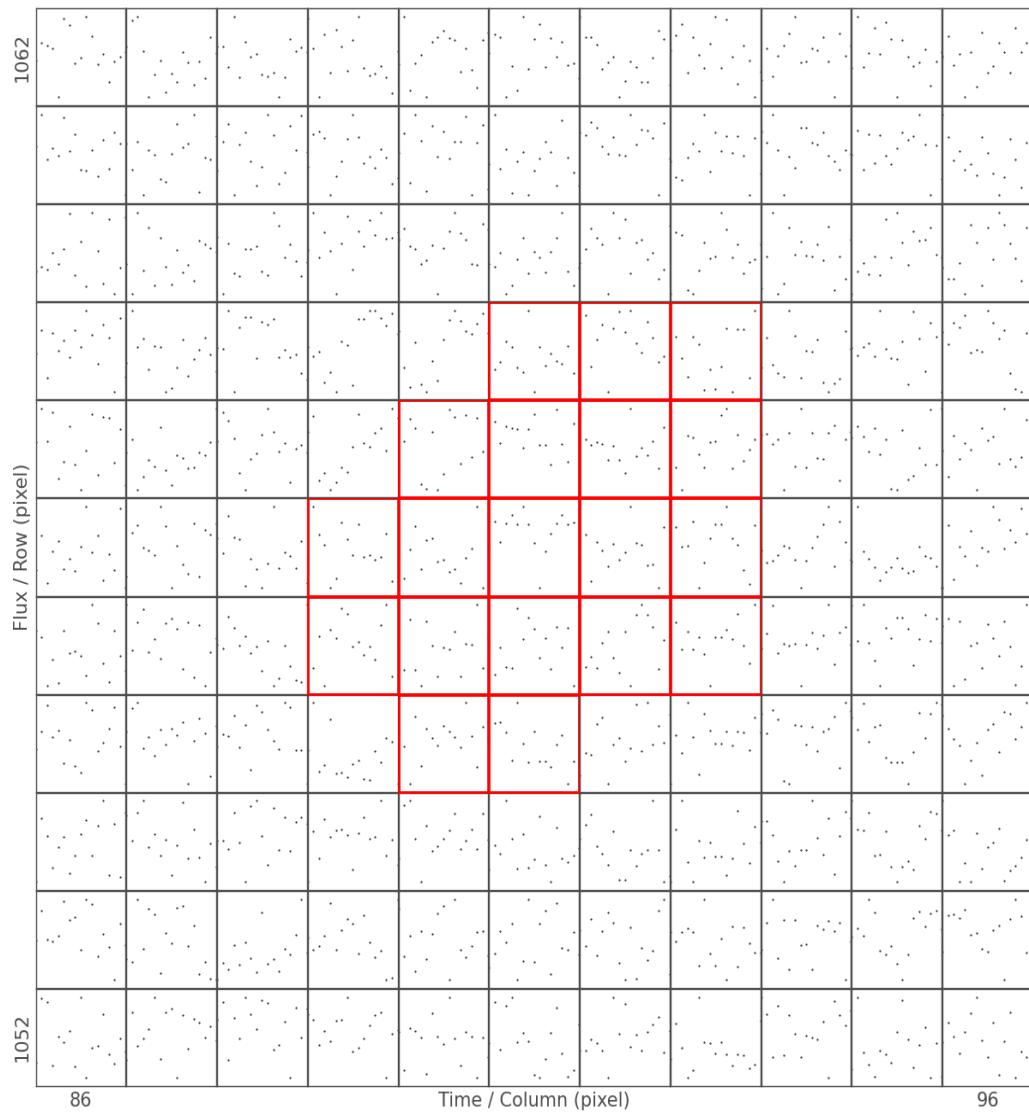
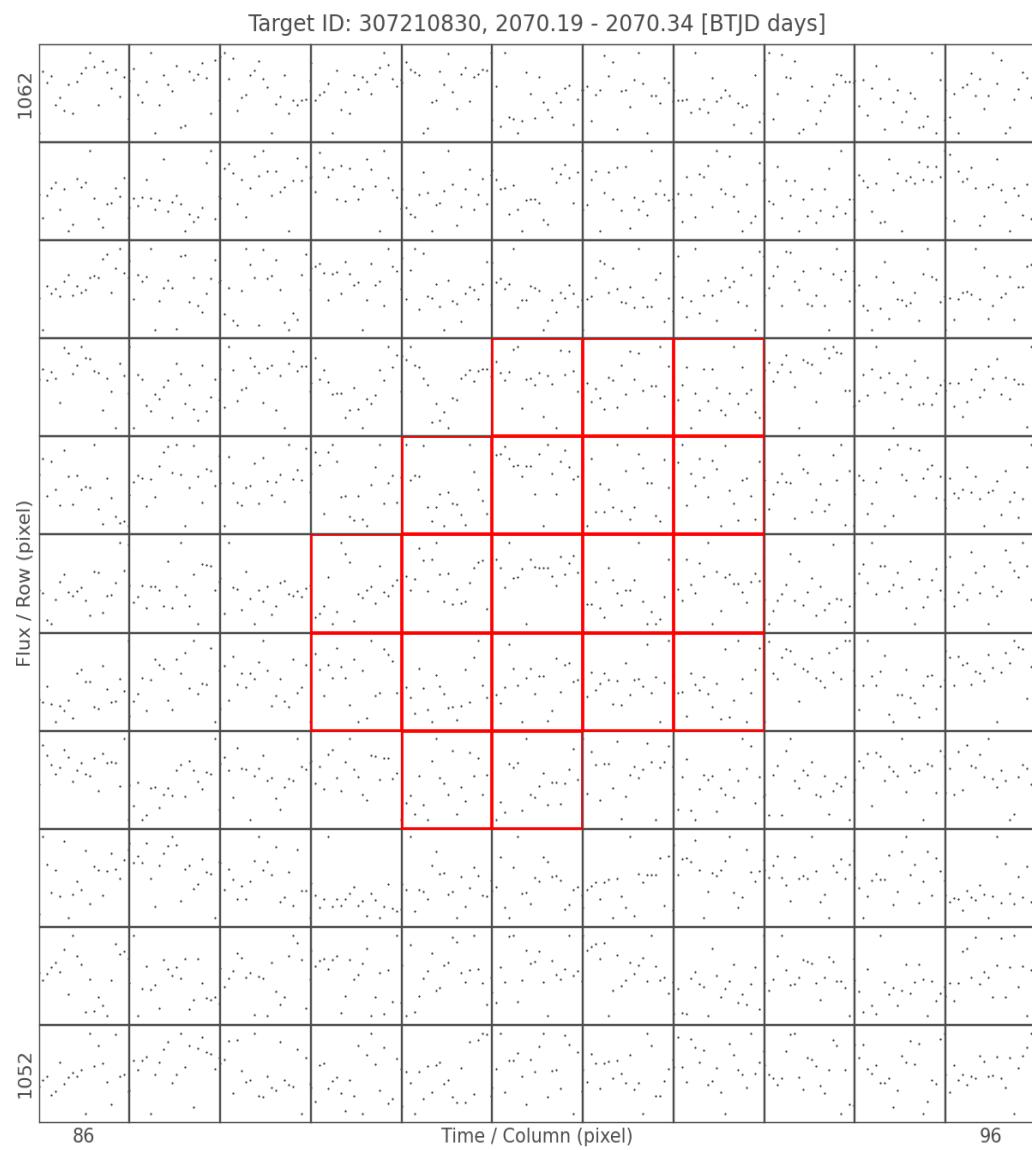
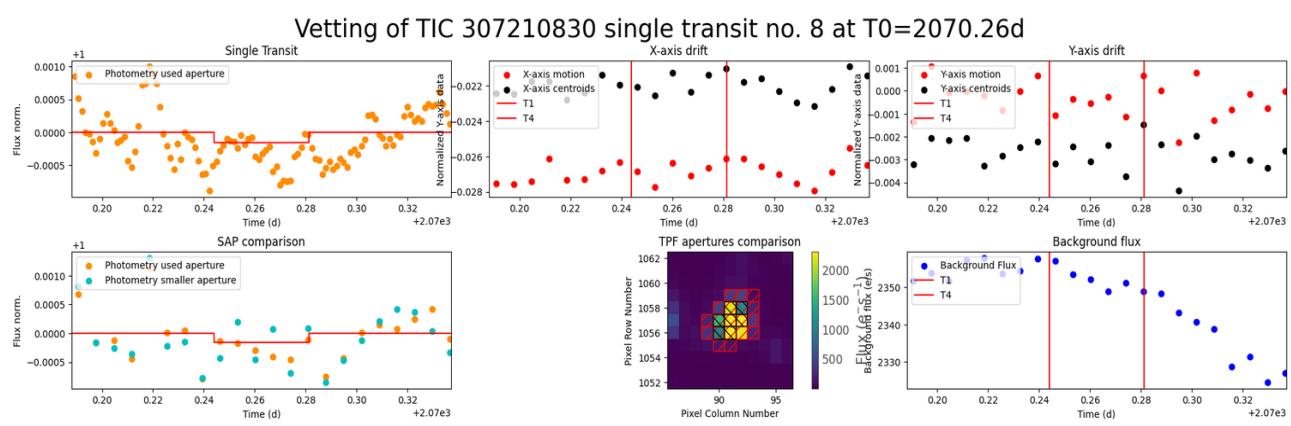


Figure 20: The single transit no. 7 vetting plots



## WATSON Transits Validation Report: TIC 307210830

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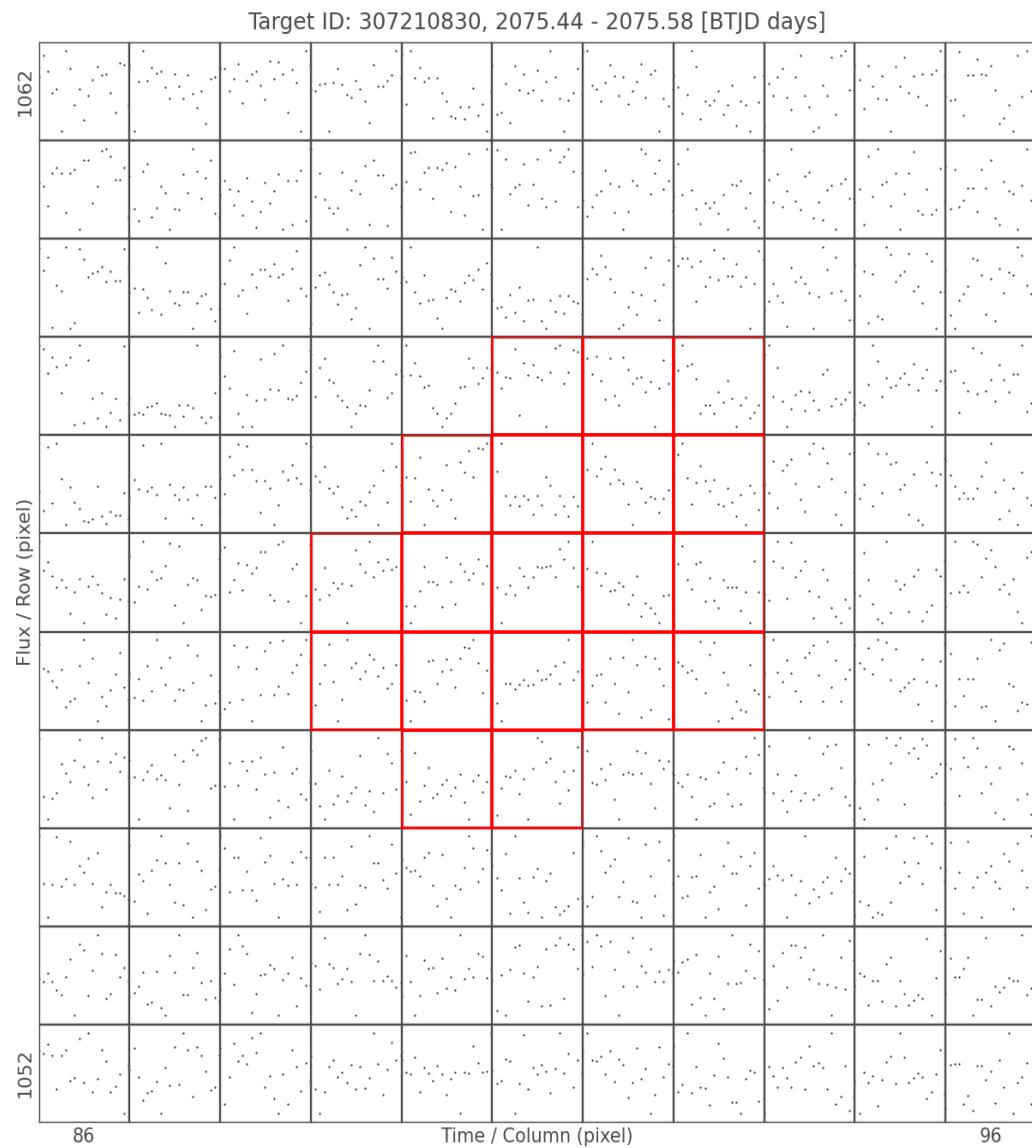
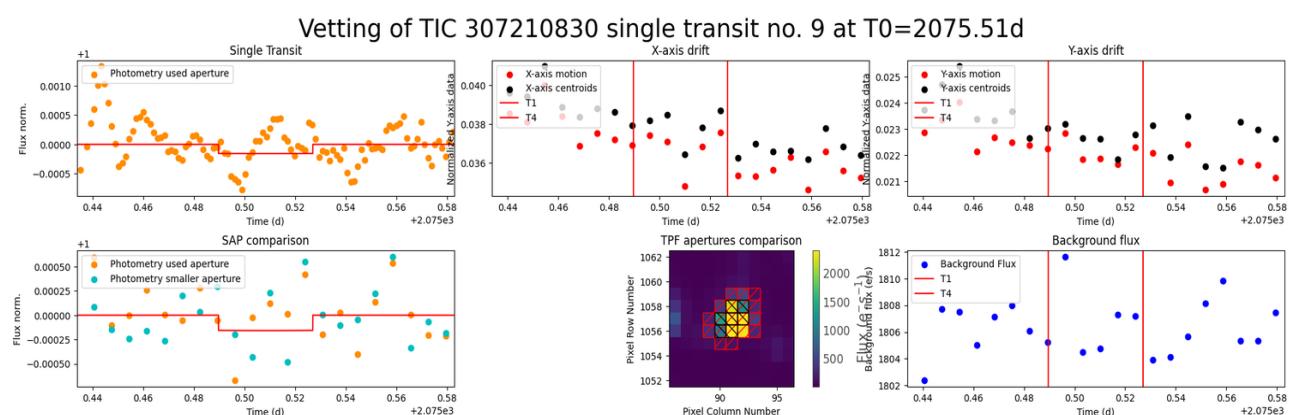


**Figure 21:** The single transit no. 8 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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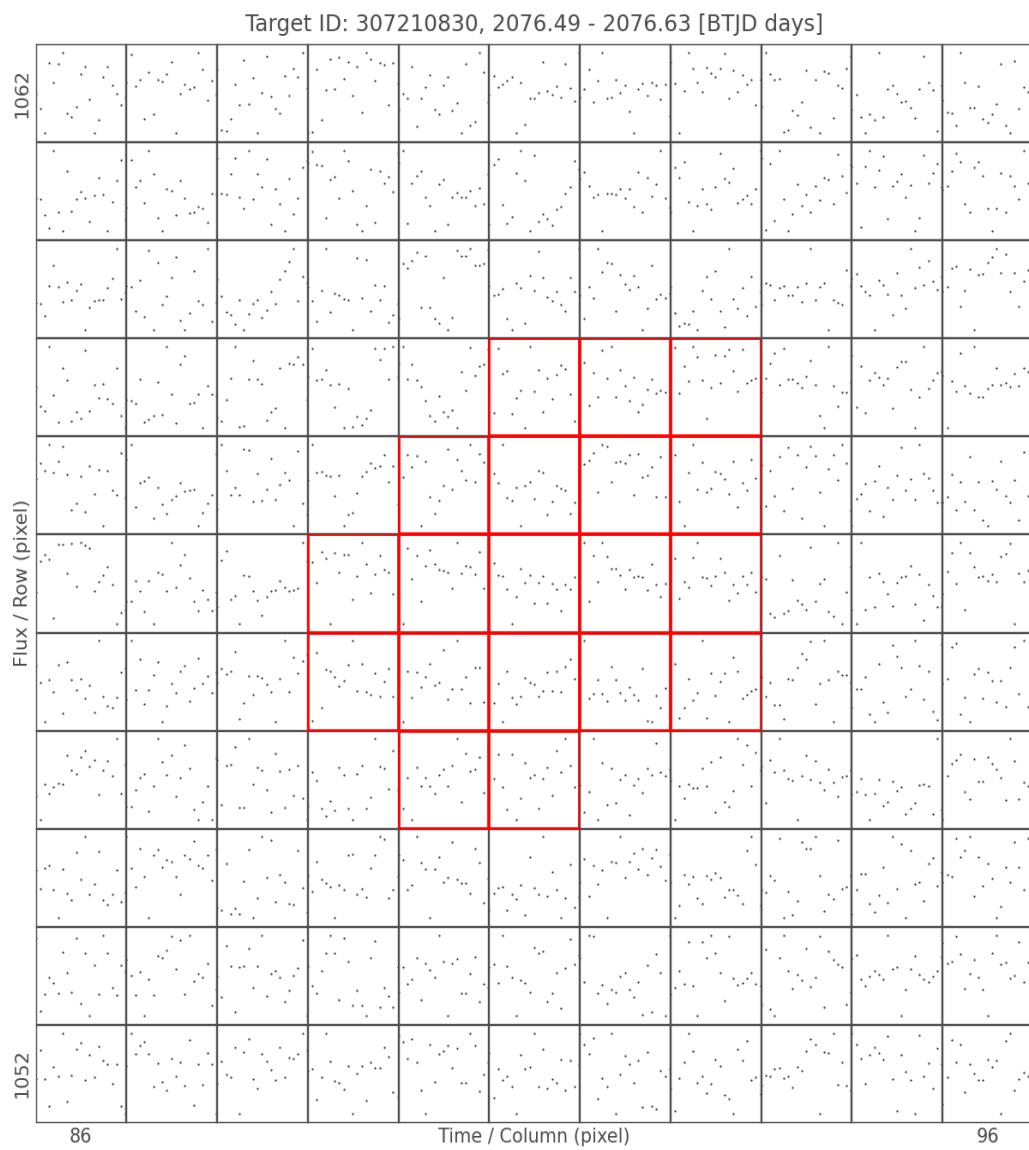
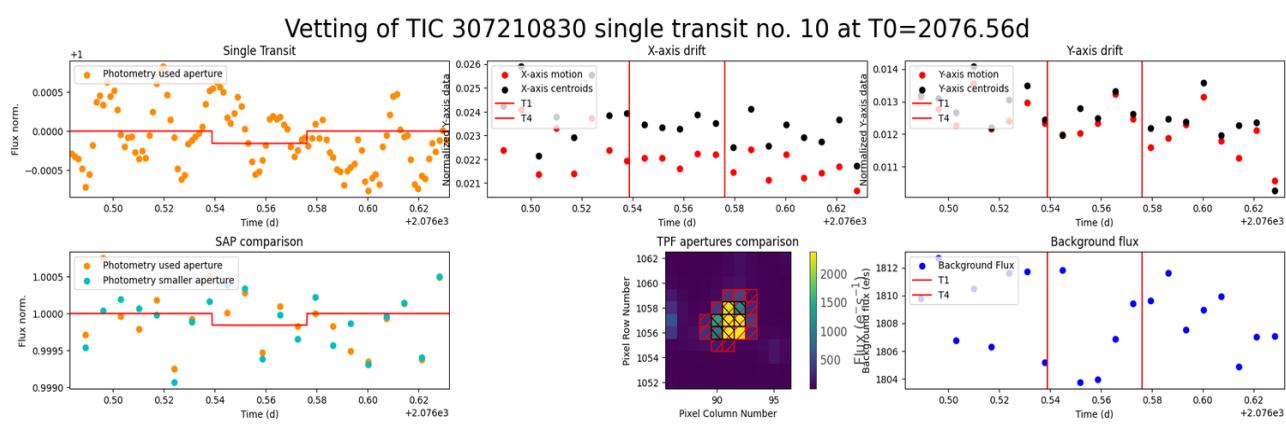


**Figure 22:** The single transit no. 9 vetting plots



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**Figure 23:** The single transit no. 10 vetting plots

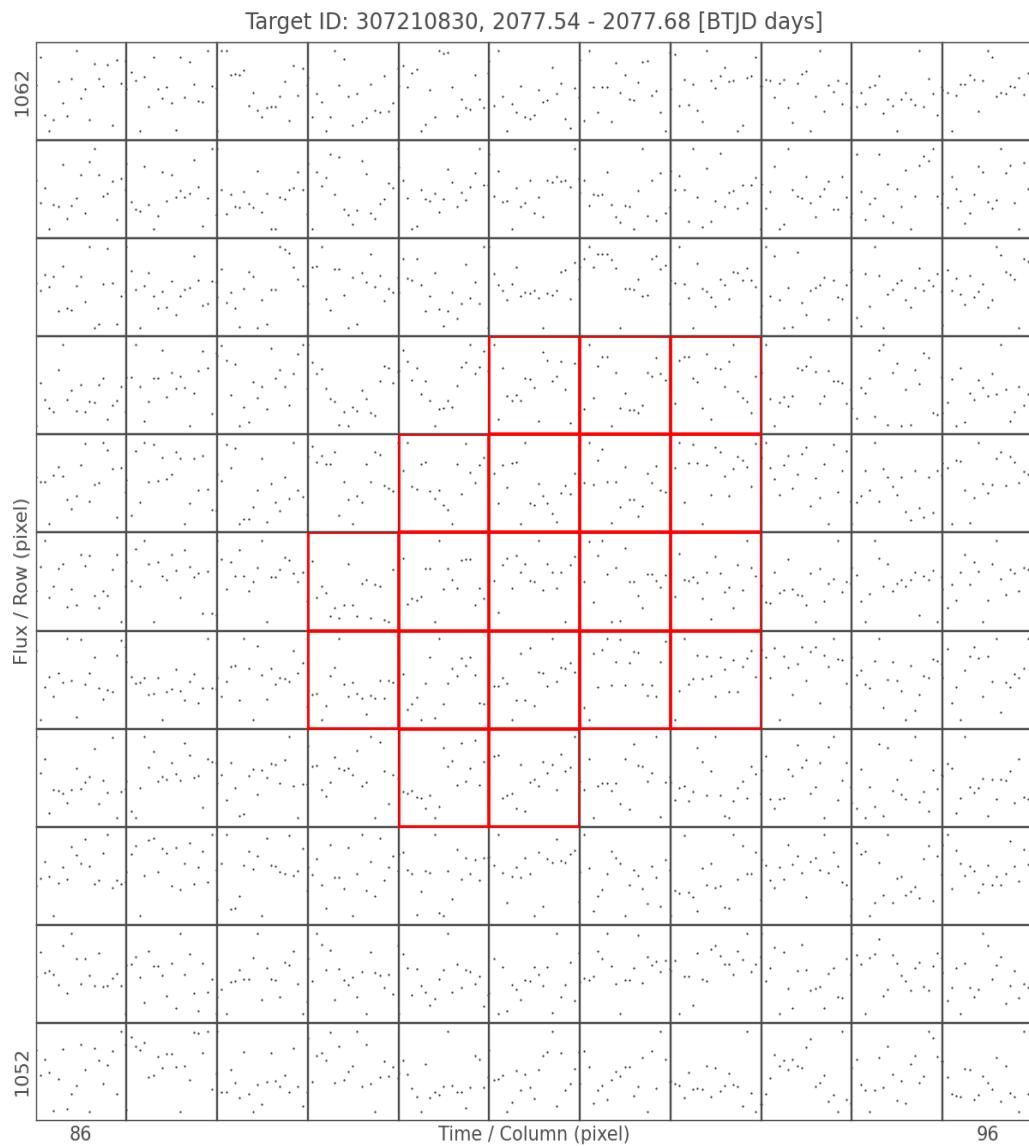
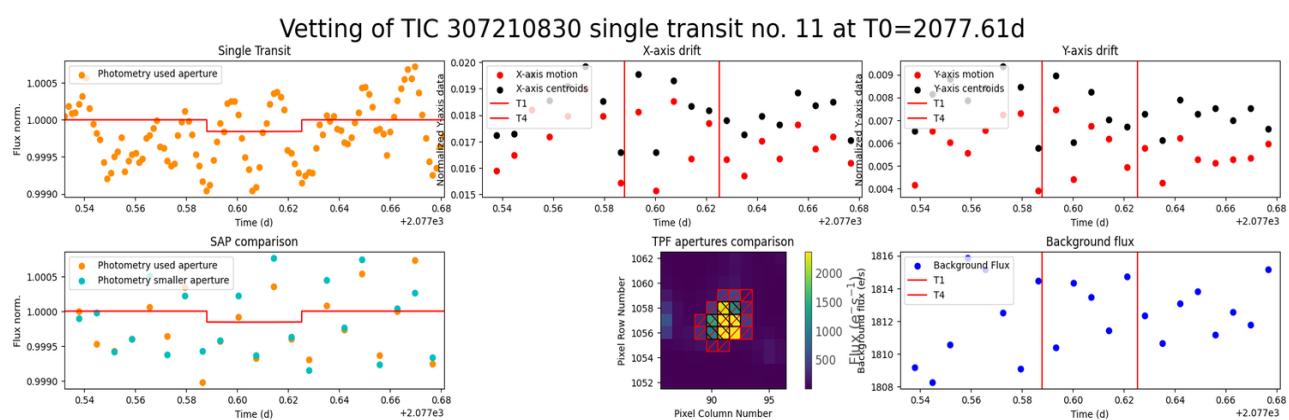
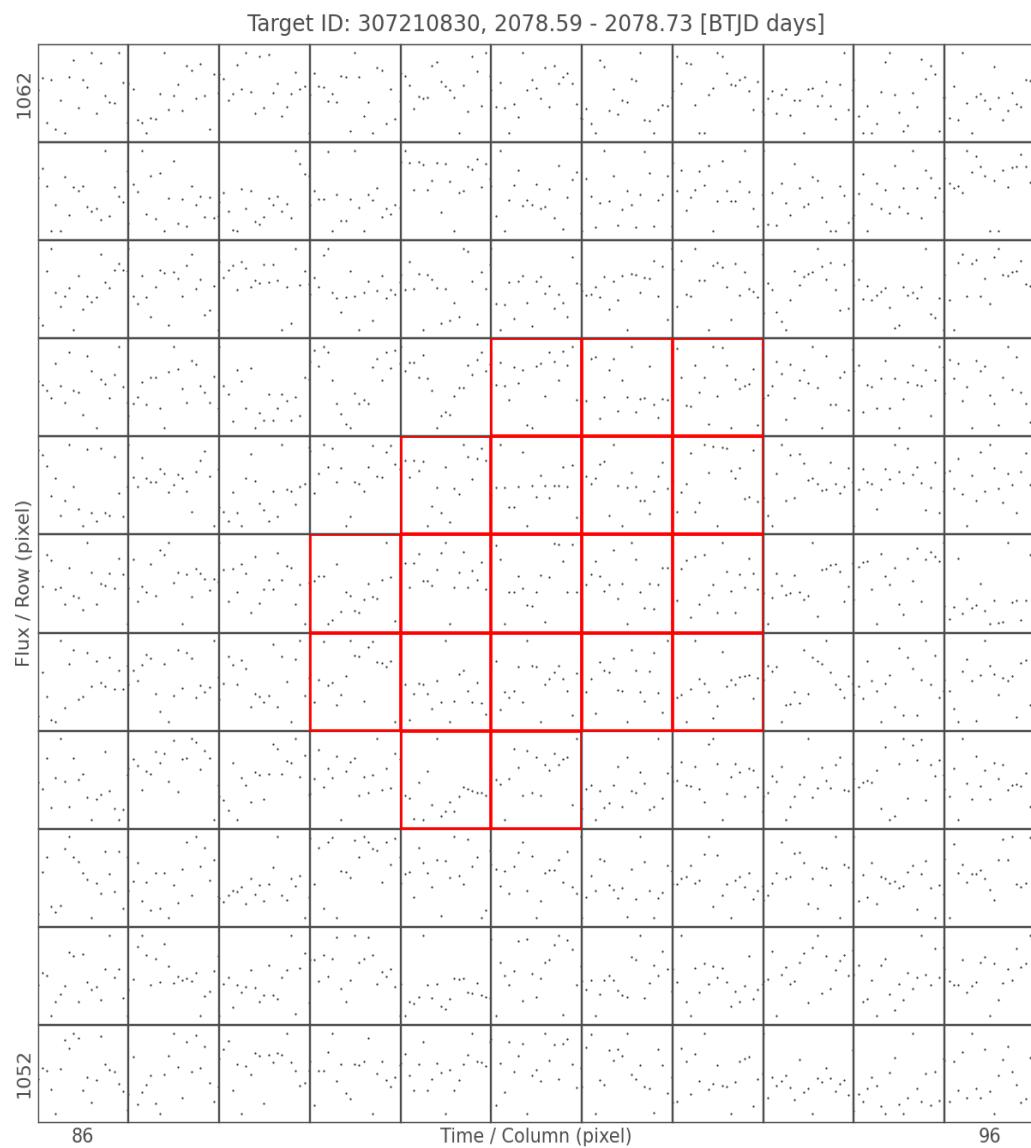
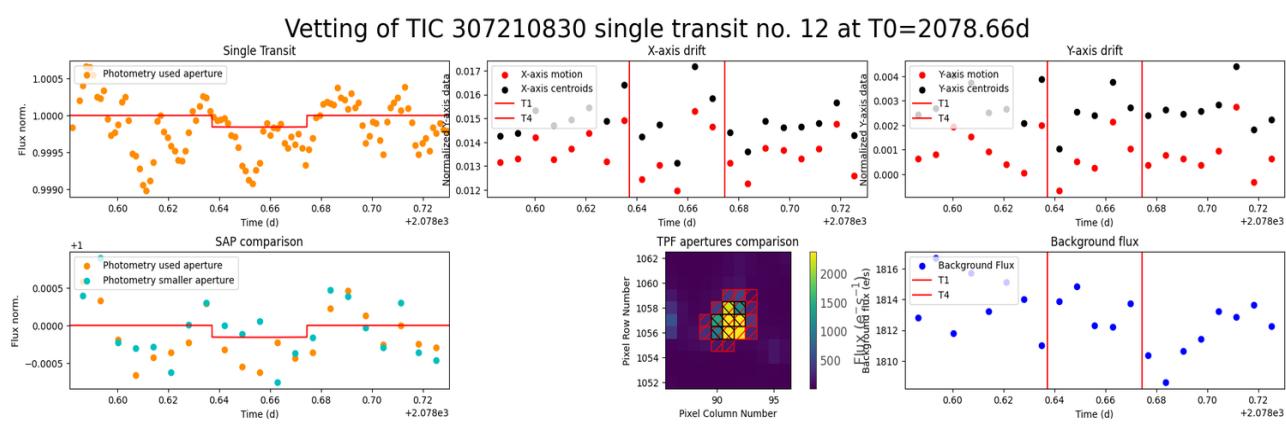


Figure 24: The single transit no. 11 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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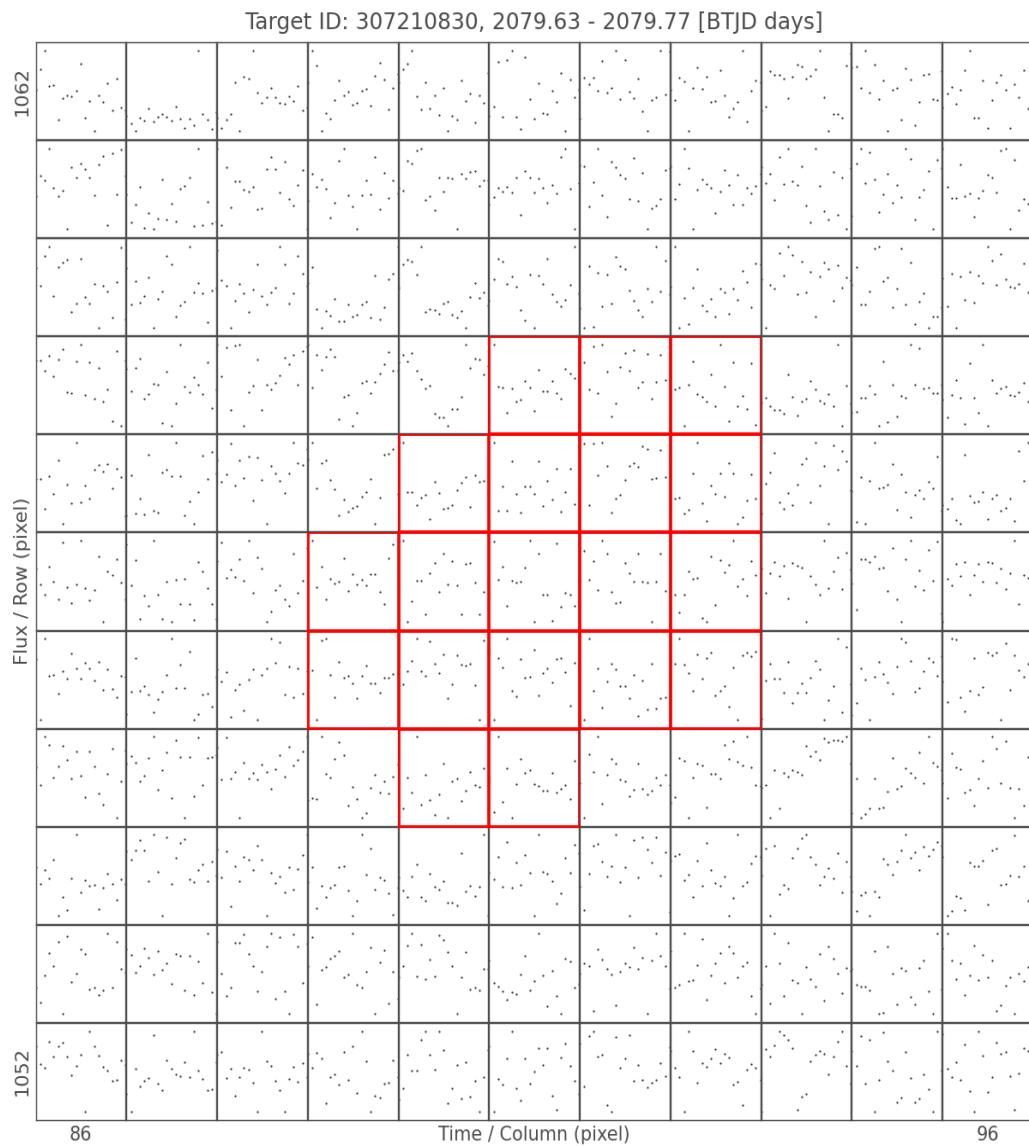
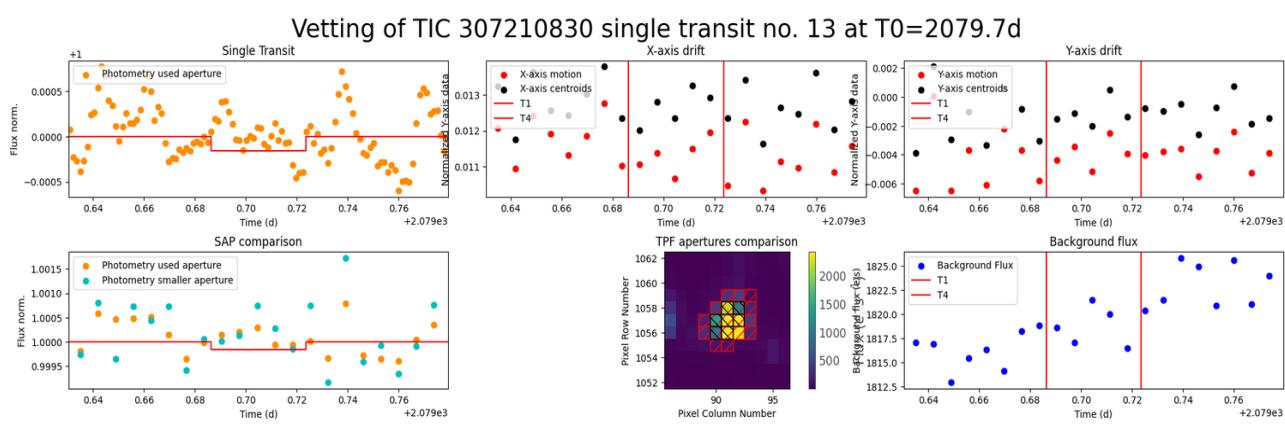


**Figure 25:** The single transit no. 12 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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**Figure 26:** The single transit no. 13 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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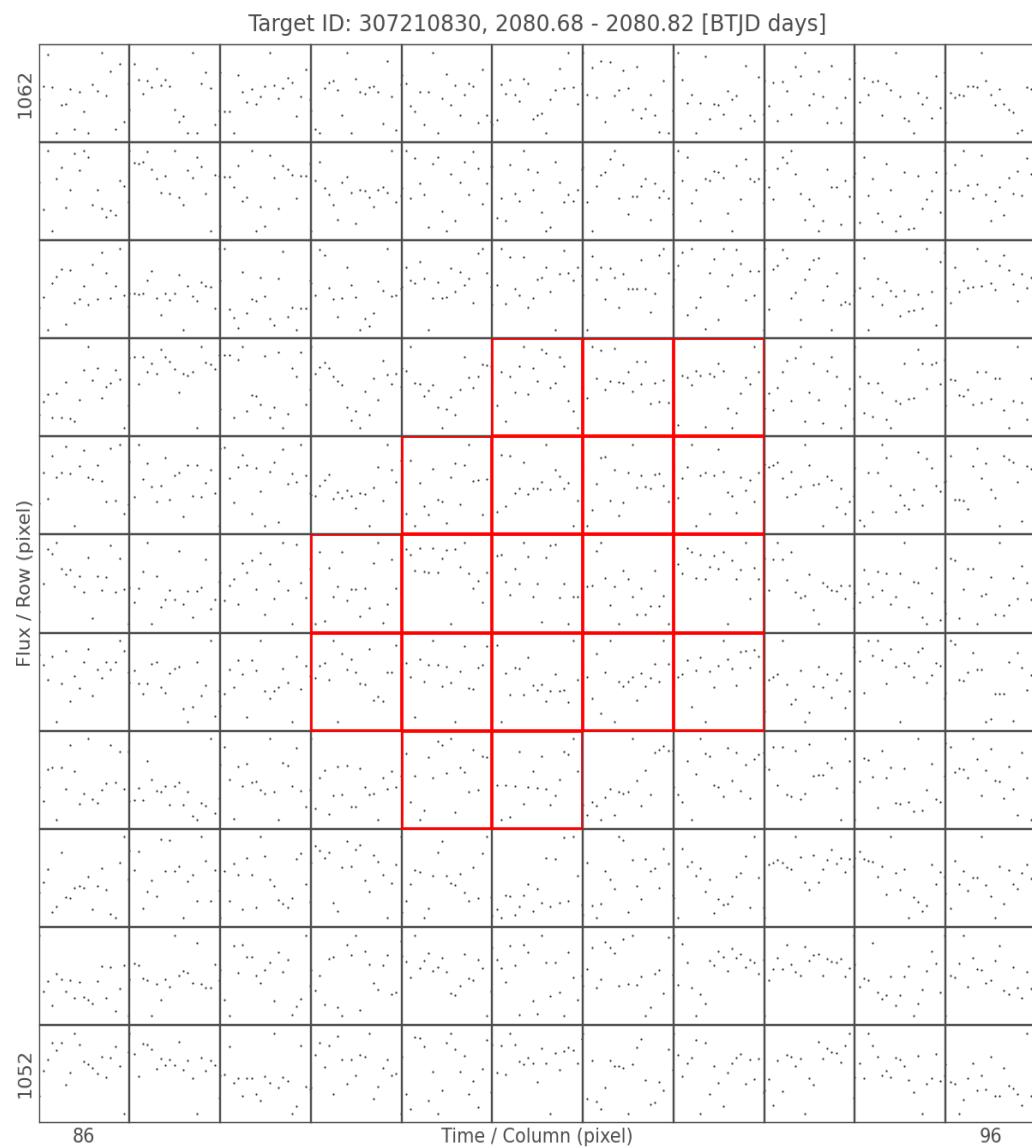
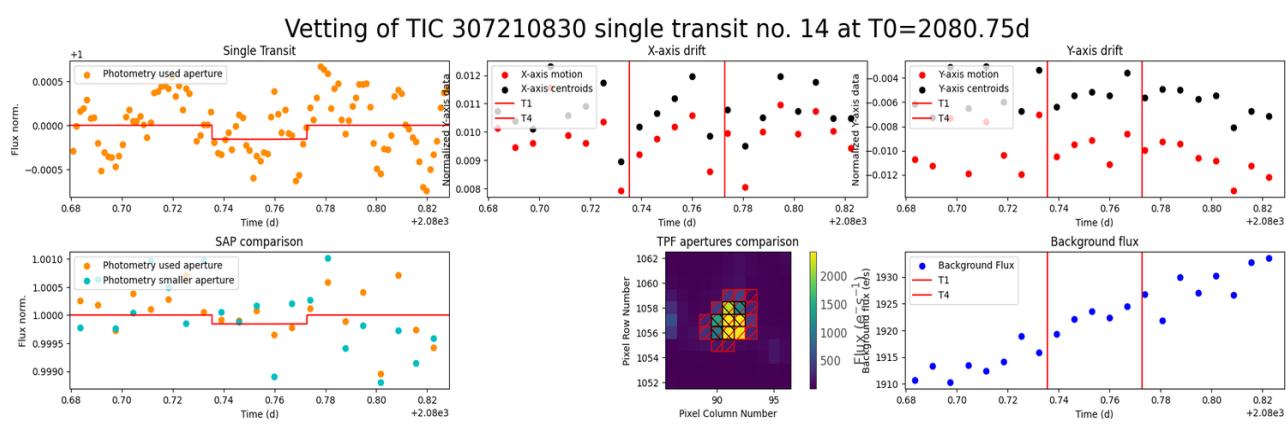
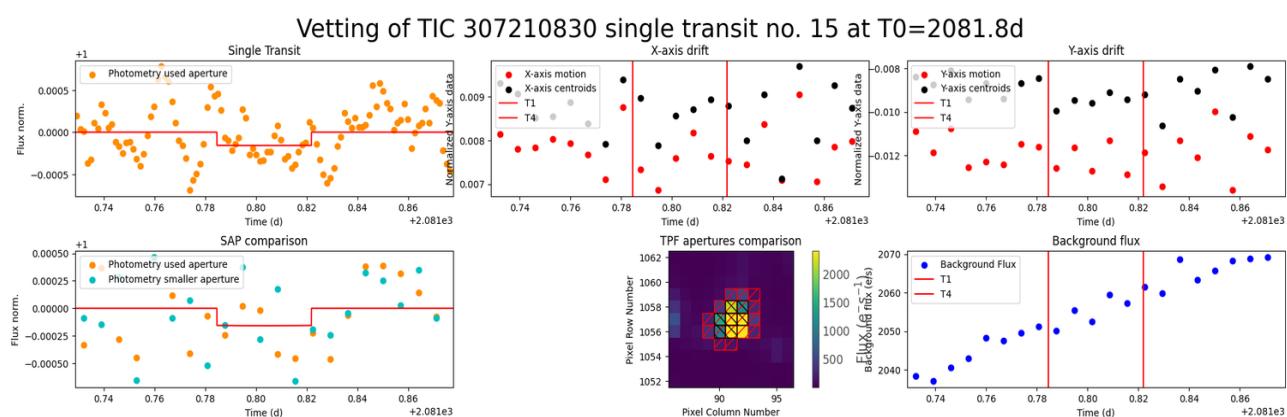


Figure 27: The single transit no. 14 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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Target ID: 307210830, 2081.73 - 2081.87 [BTJD days]

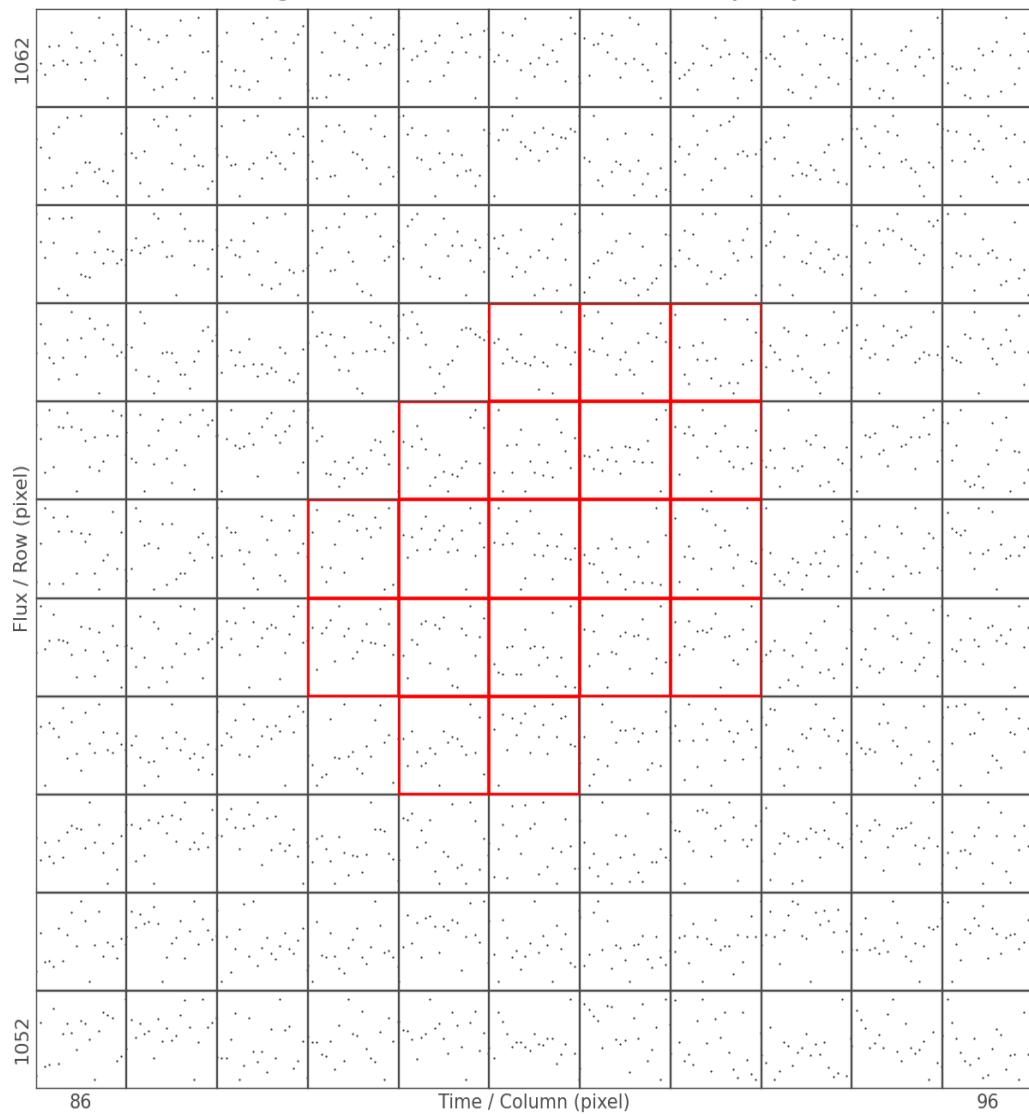
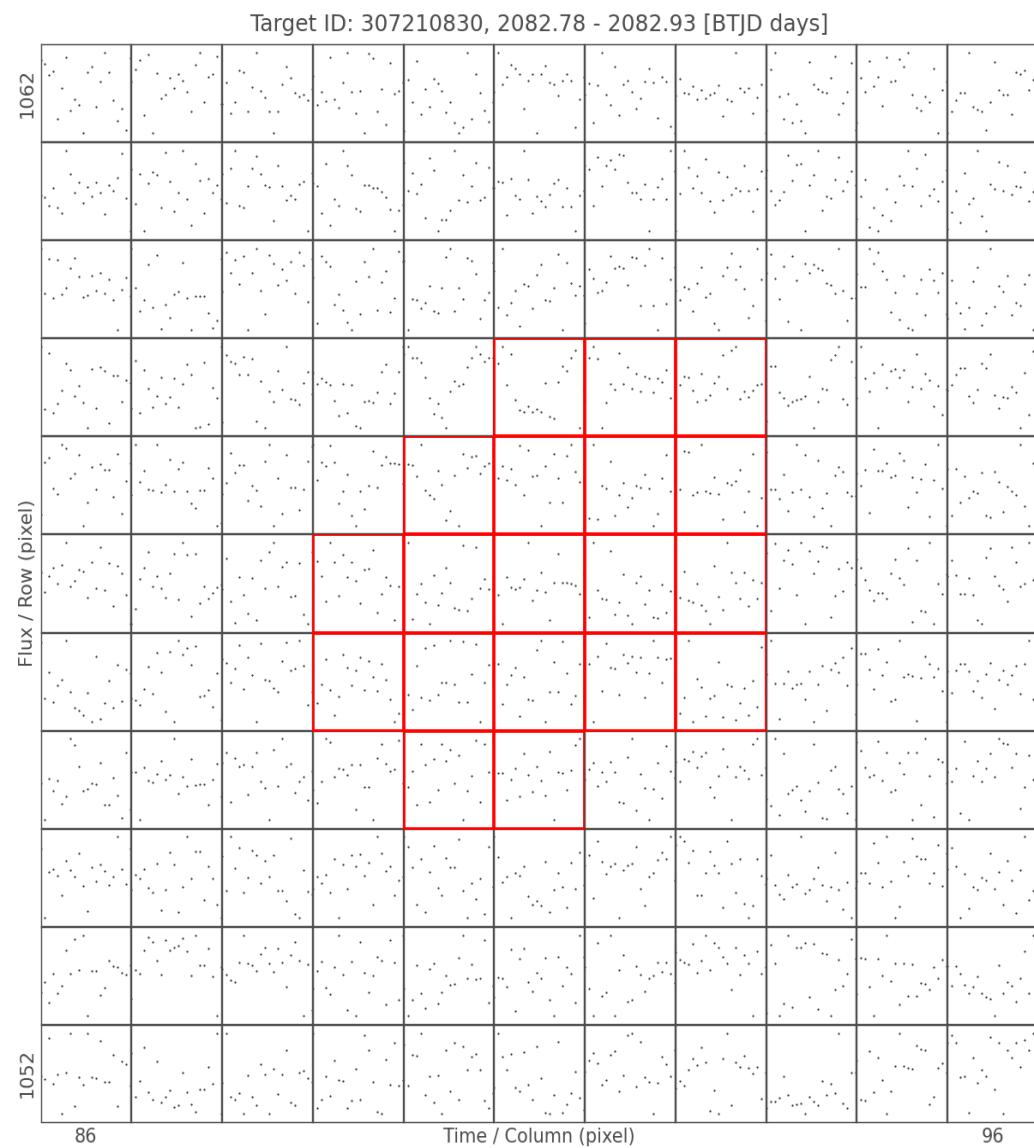
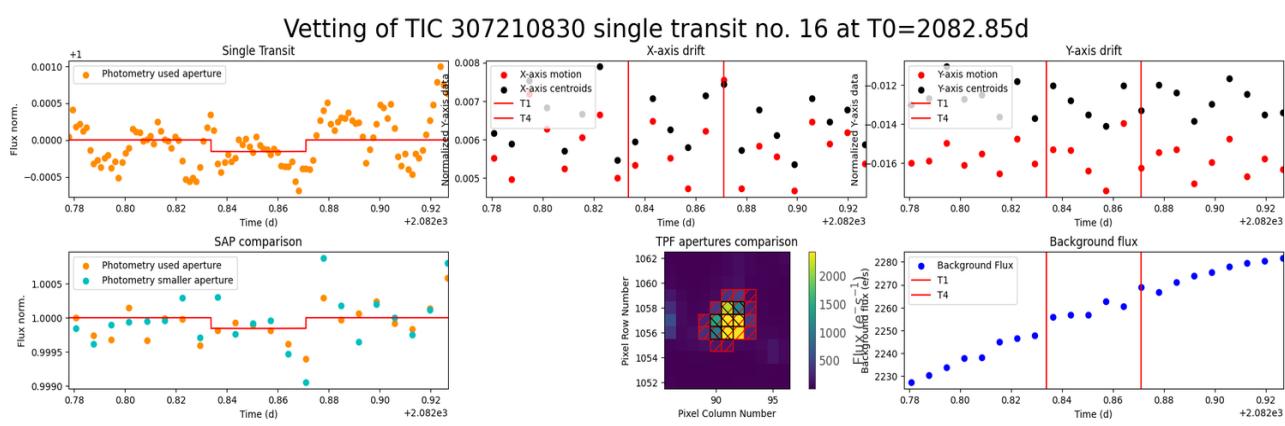


Figure 28: The single transit no. 15 vetting plots



# WATSON Transits Validation Report: TIC 307210830

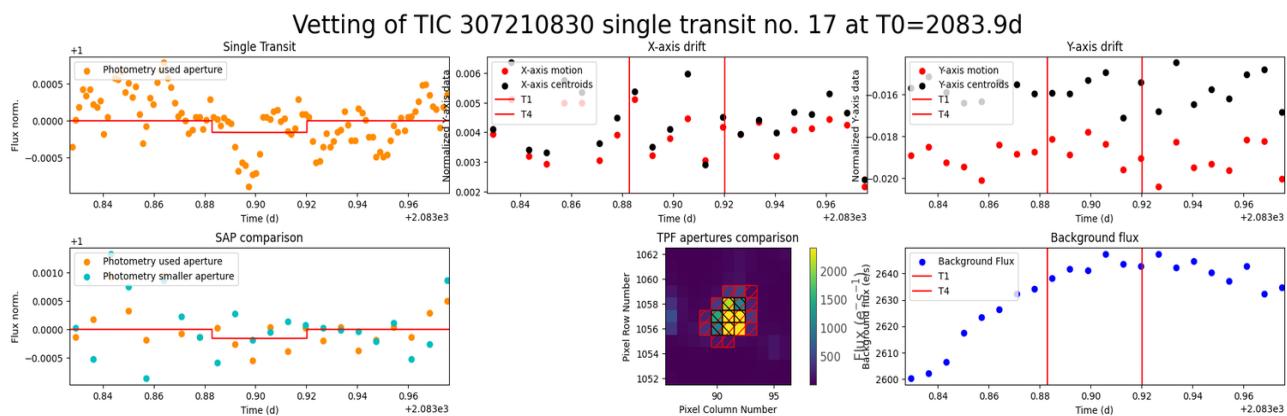
Wed, 09 November 2022, 11:03:46



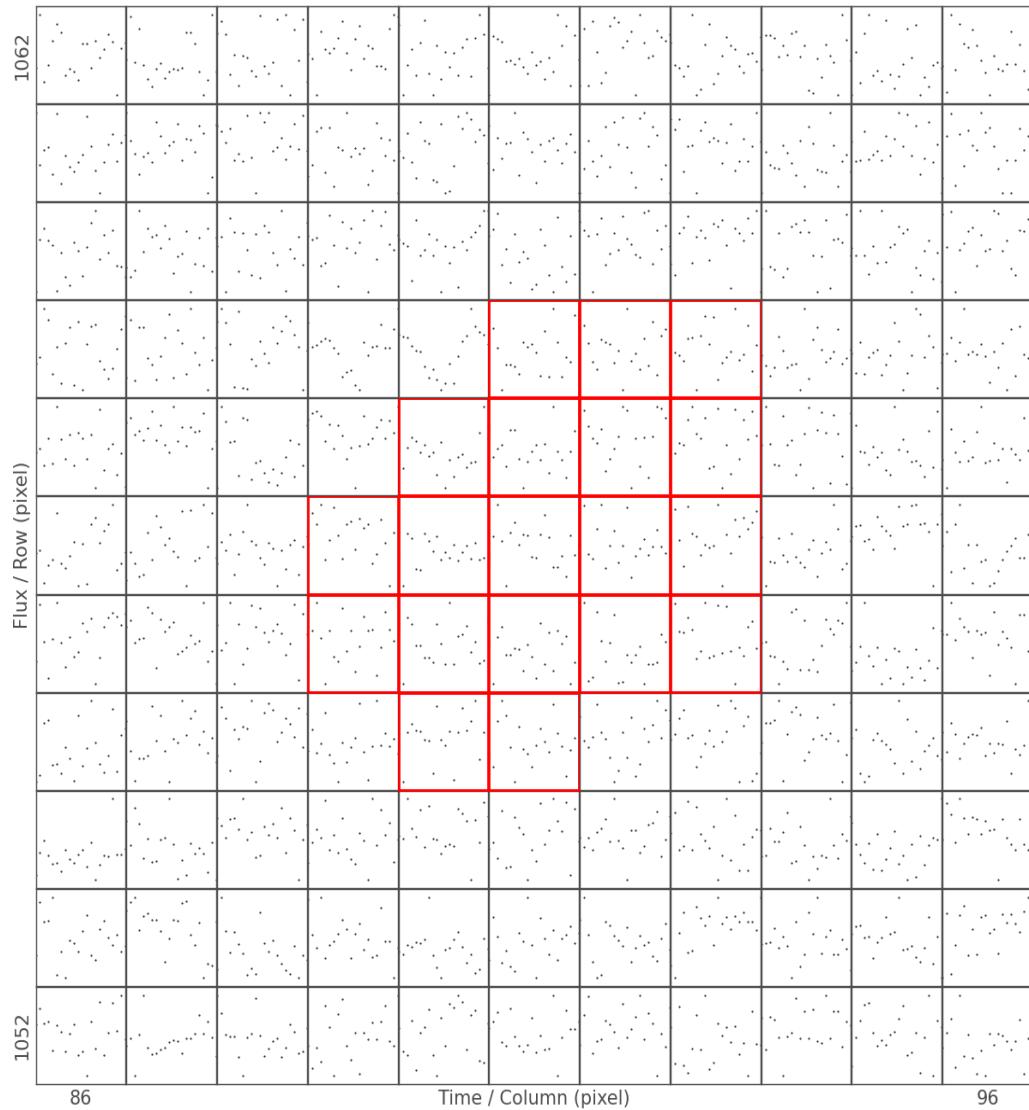
**Figure 29:** The single transit no. 16 vetting plots



WATSON Transits Validation Report: TIC 307210830



Target ID: 307210830, 2083.83 - 2083.98 [BTJD days]

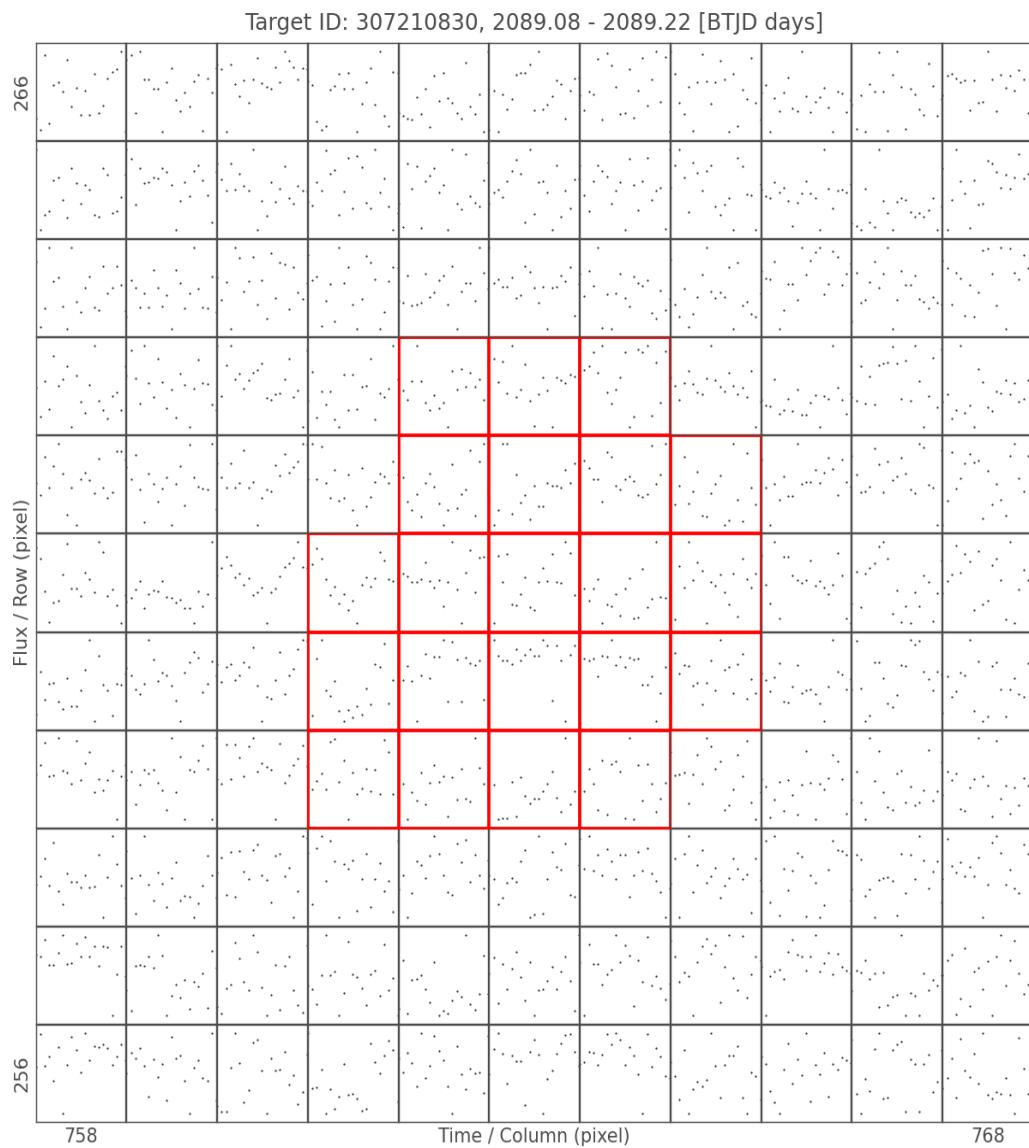
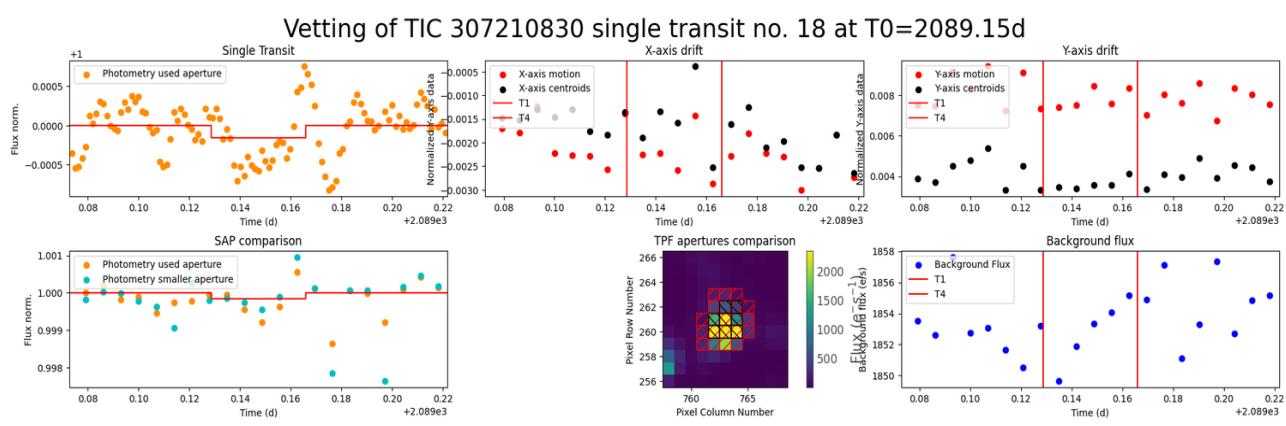


**Figure 30:** The single transit no. 17 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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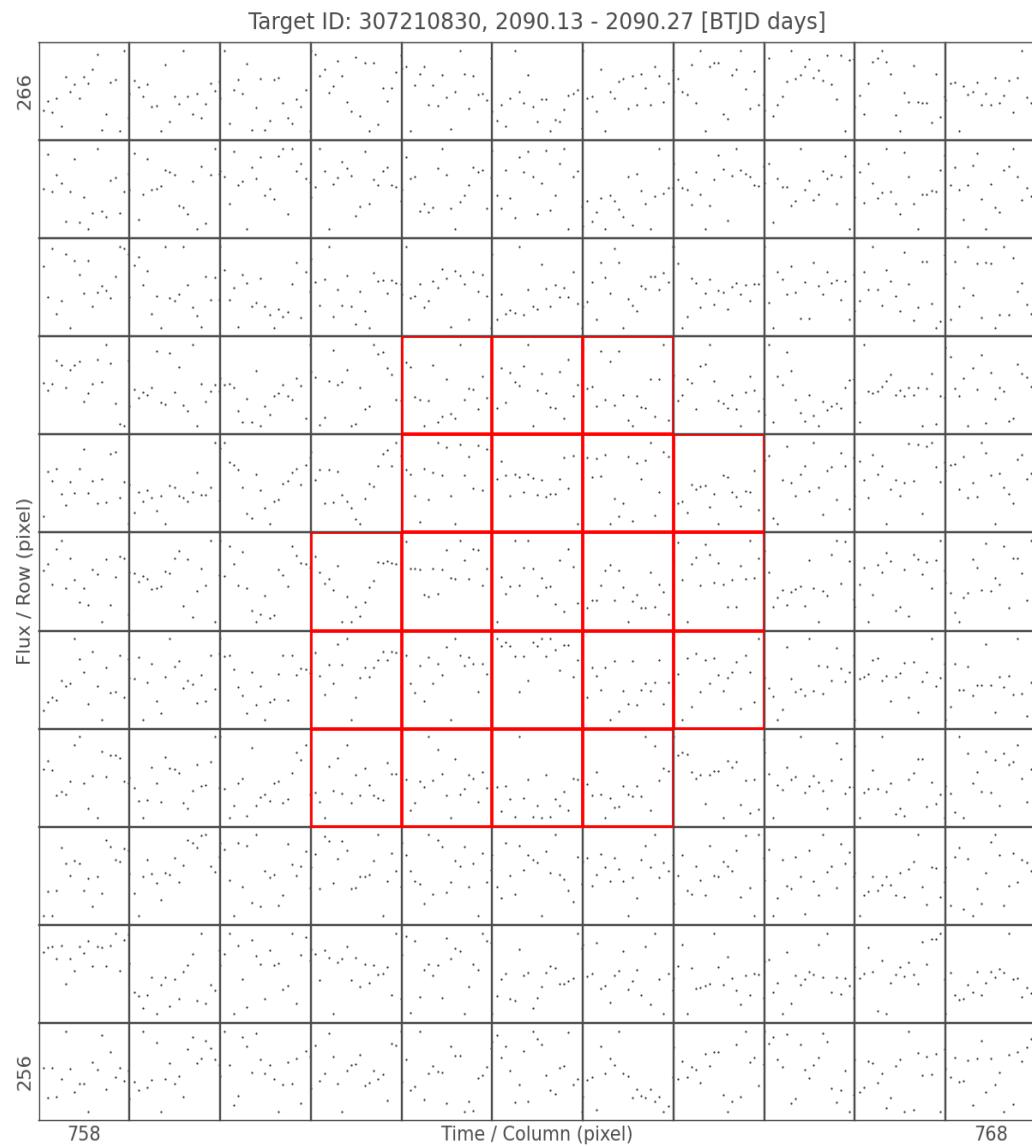
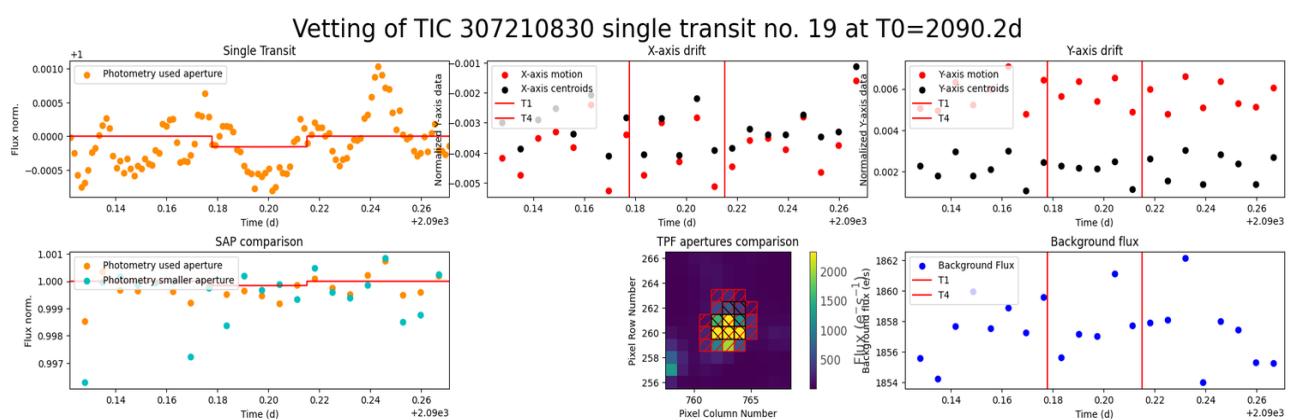


**Figure 31:** The single transit no. 18 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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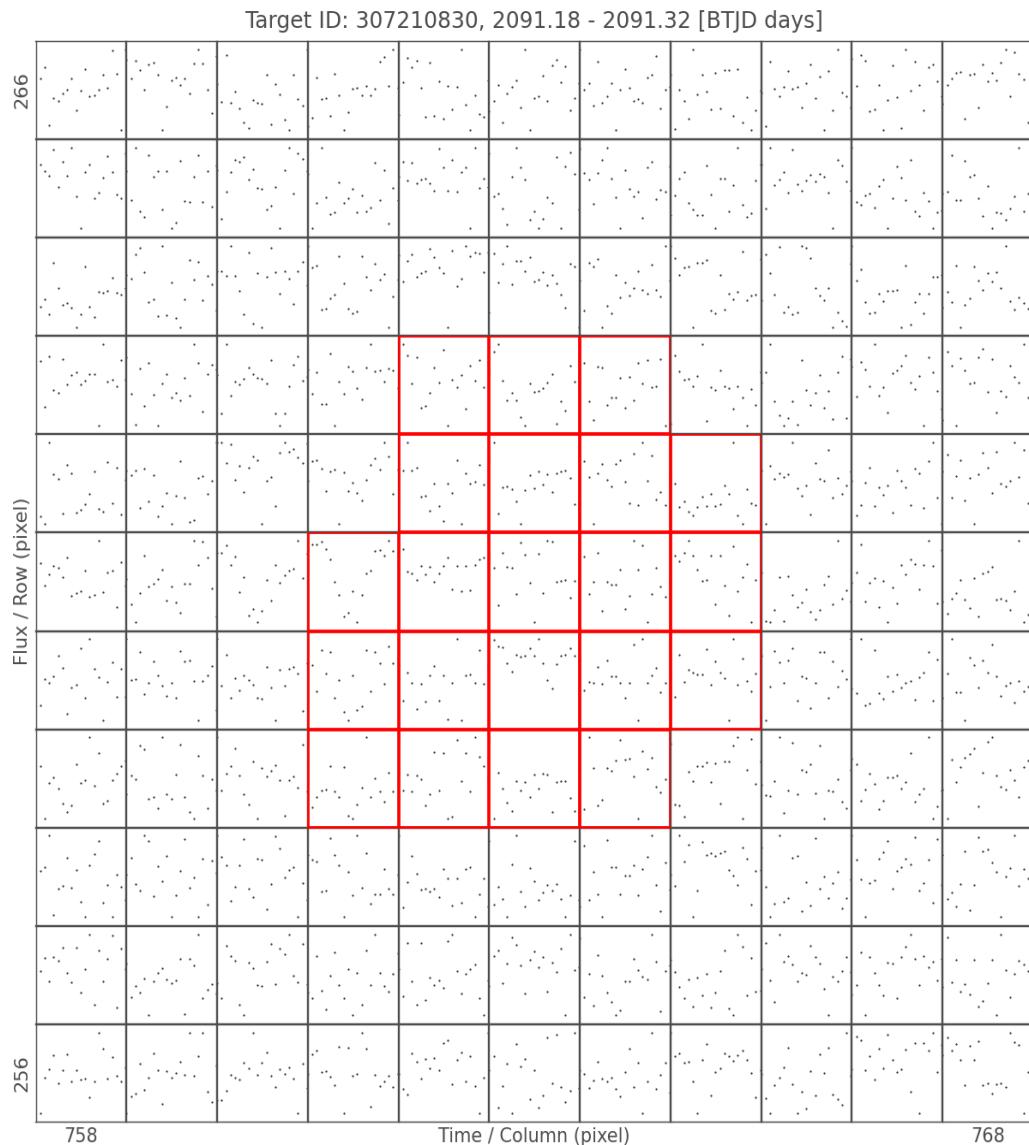
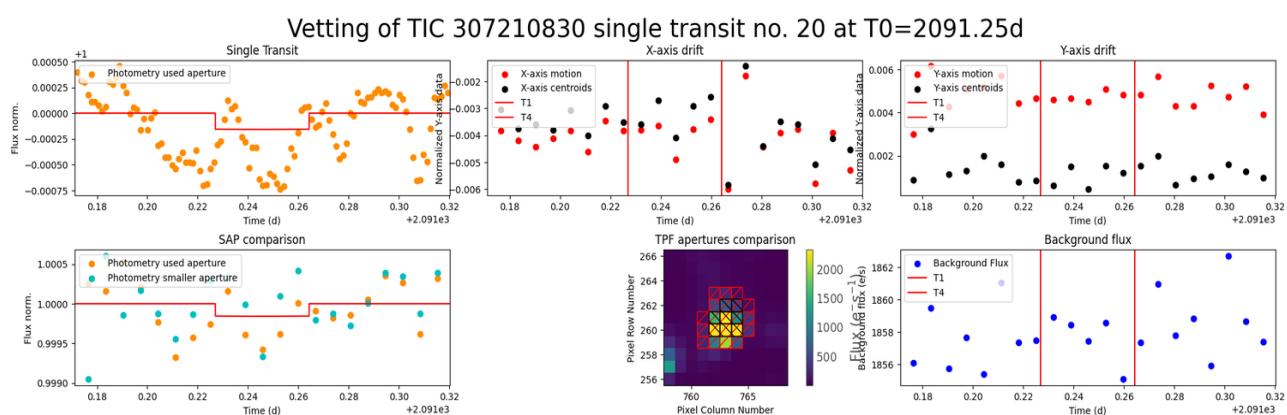


**Figure 32:** The single transit no. 19 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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**Figure 33:** The single transit no. 20 vetting plots

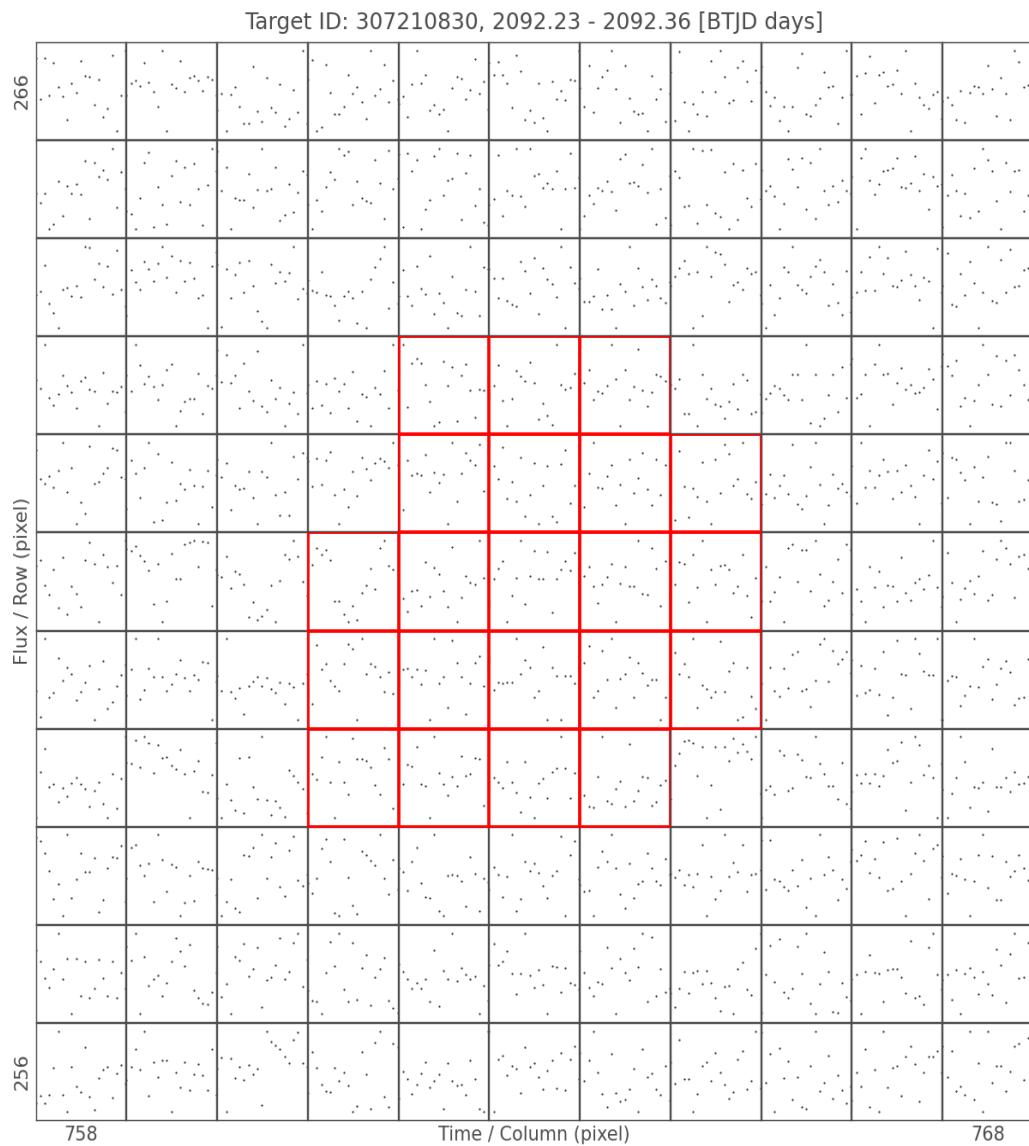
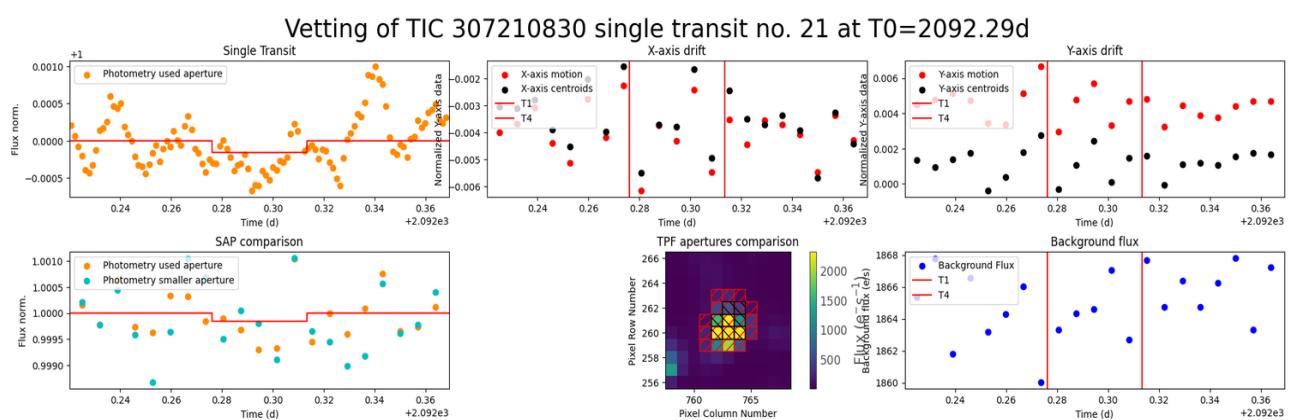
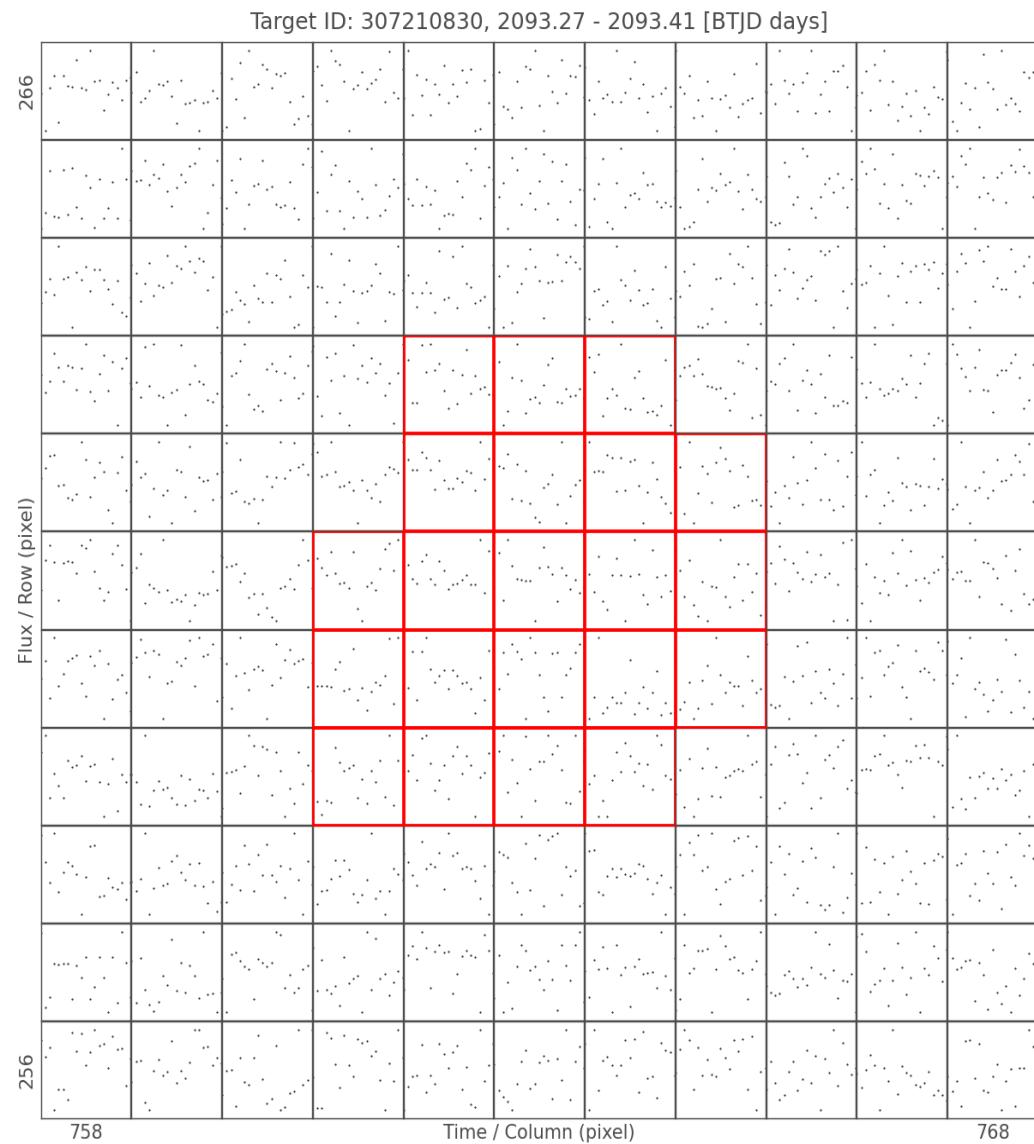
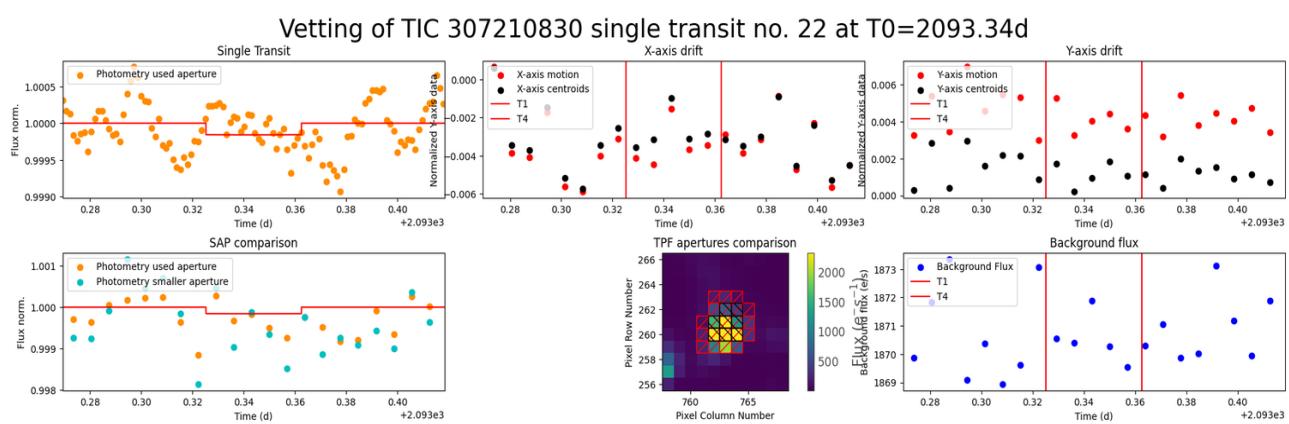


Figure 34: The single transit no. 21 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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**Figure 35:** The single transit no. 22 vetting plots

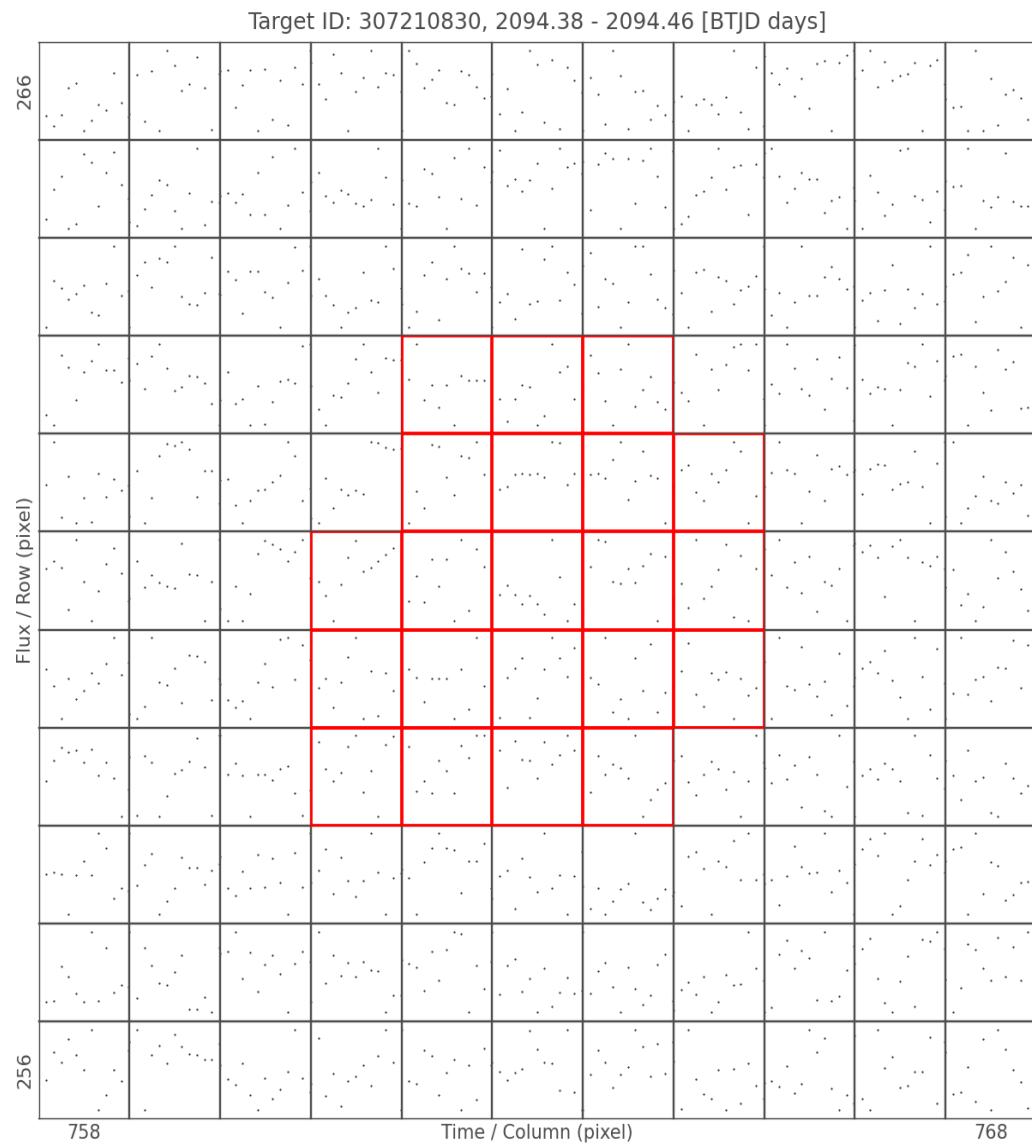
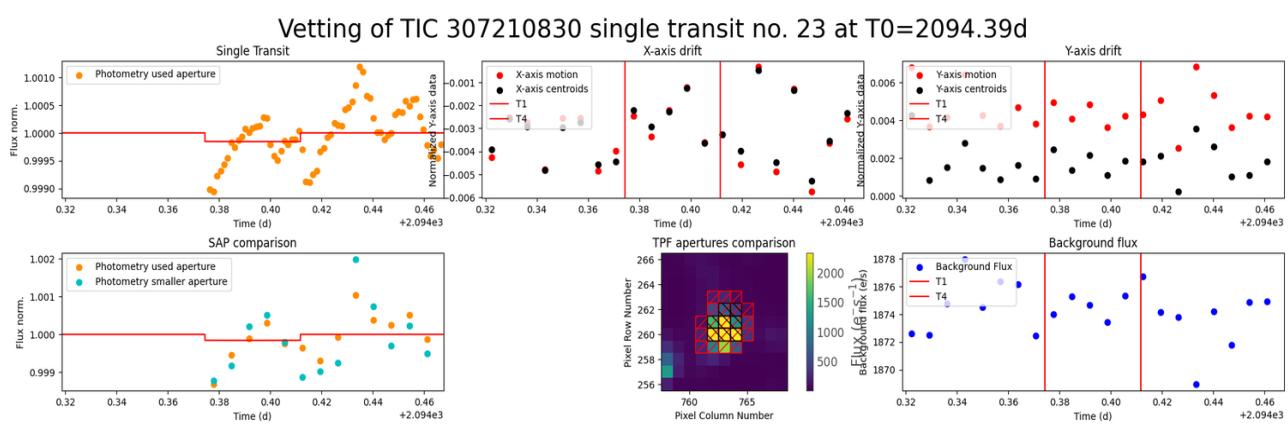
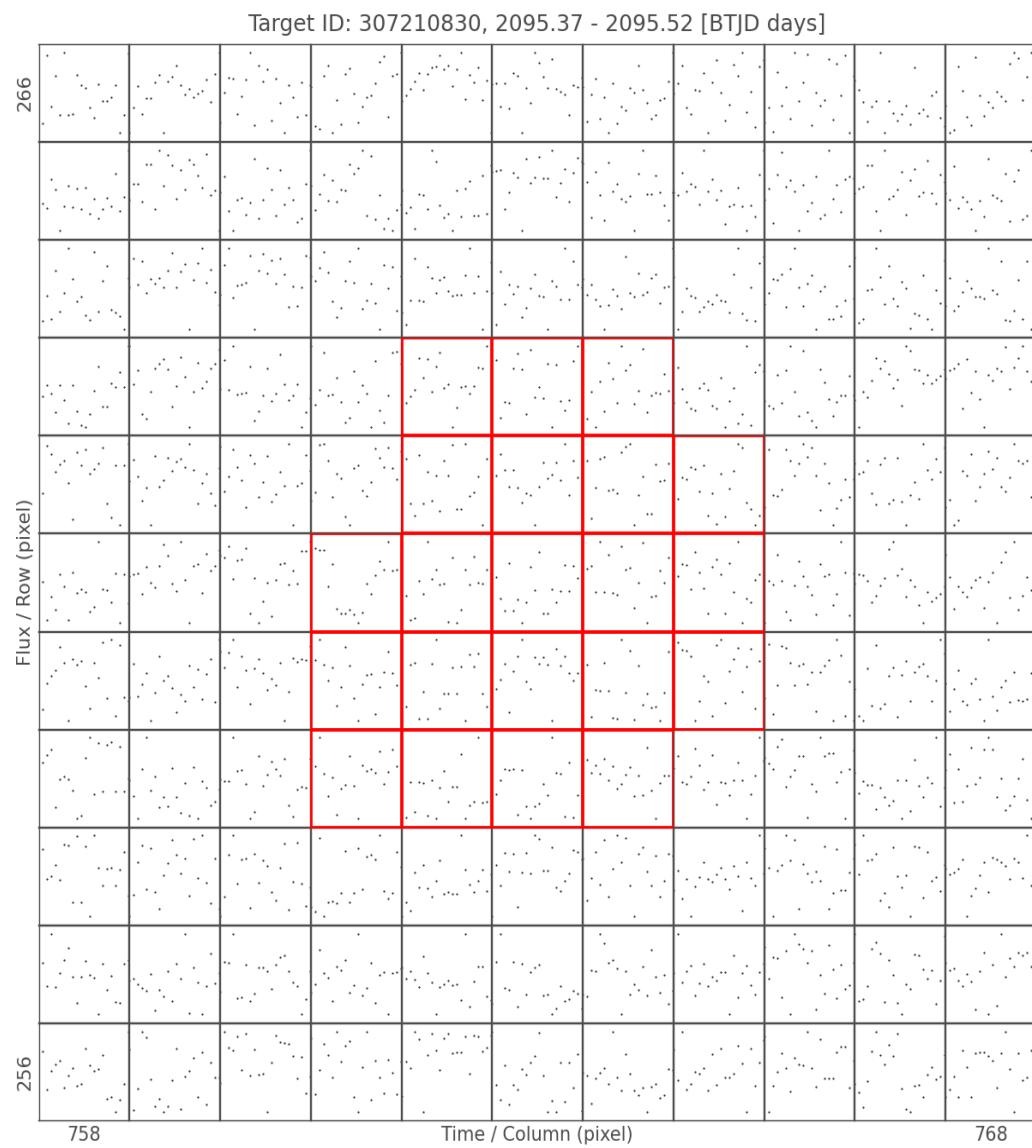
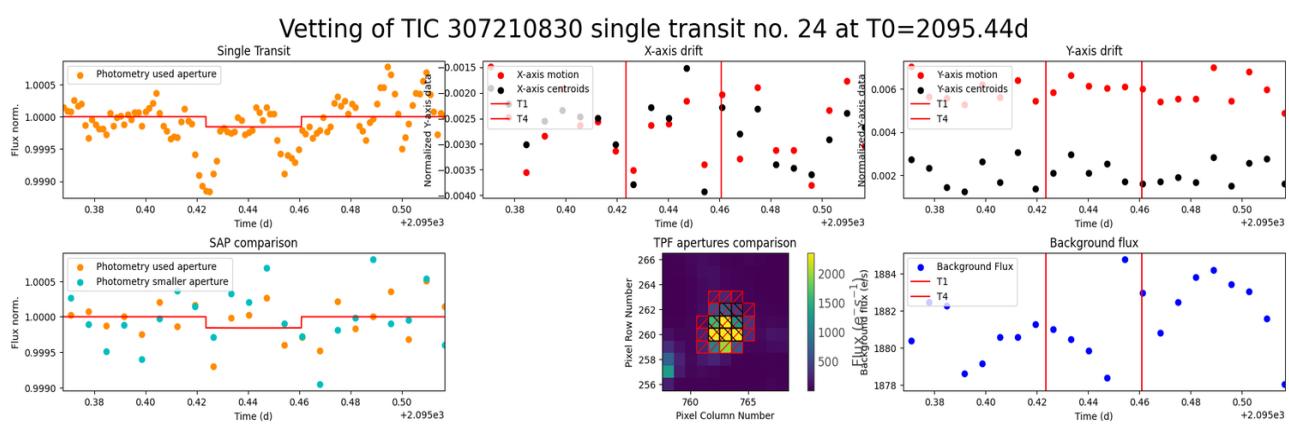


Figure 36: The single transit no. 23 vetting plots

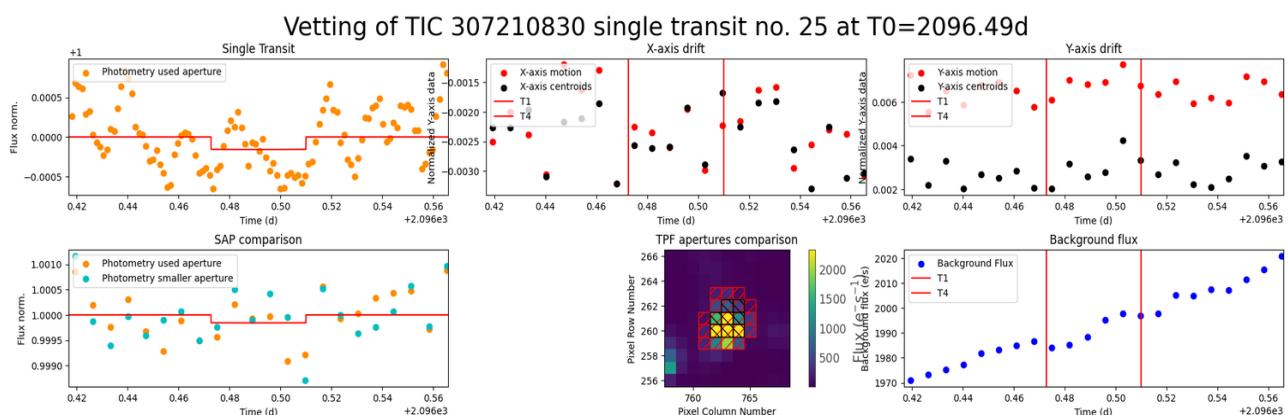


# WATSON Transits Validation Report: TIC 307210830

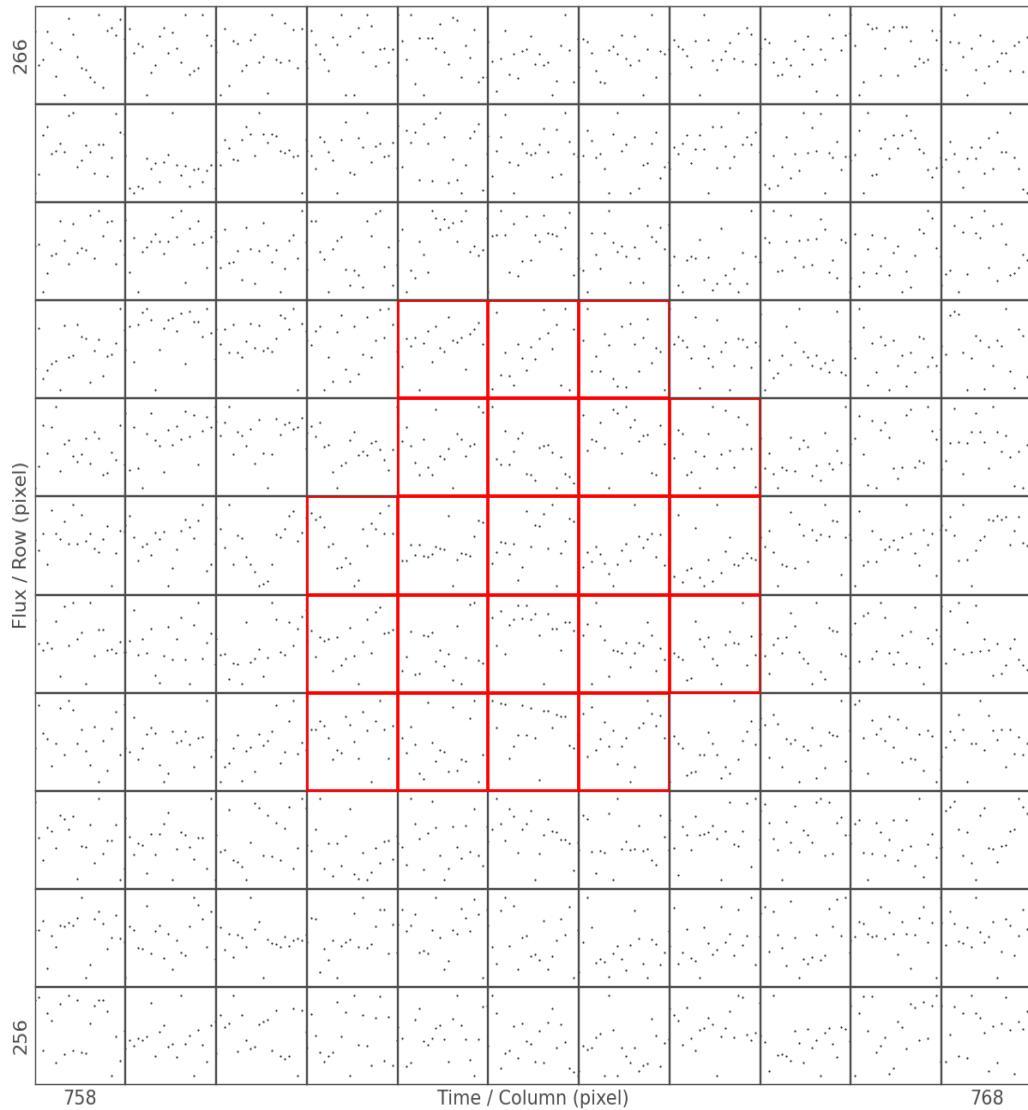
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**Figure 37:** The single transit no. 24 vetting plots



Target ID: 307210830, 2096.42 - 2096.57 [BTJD days]

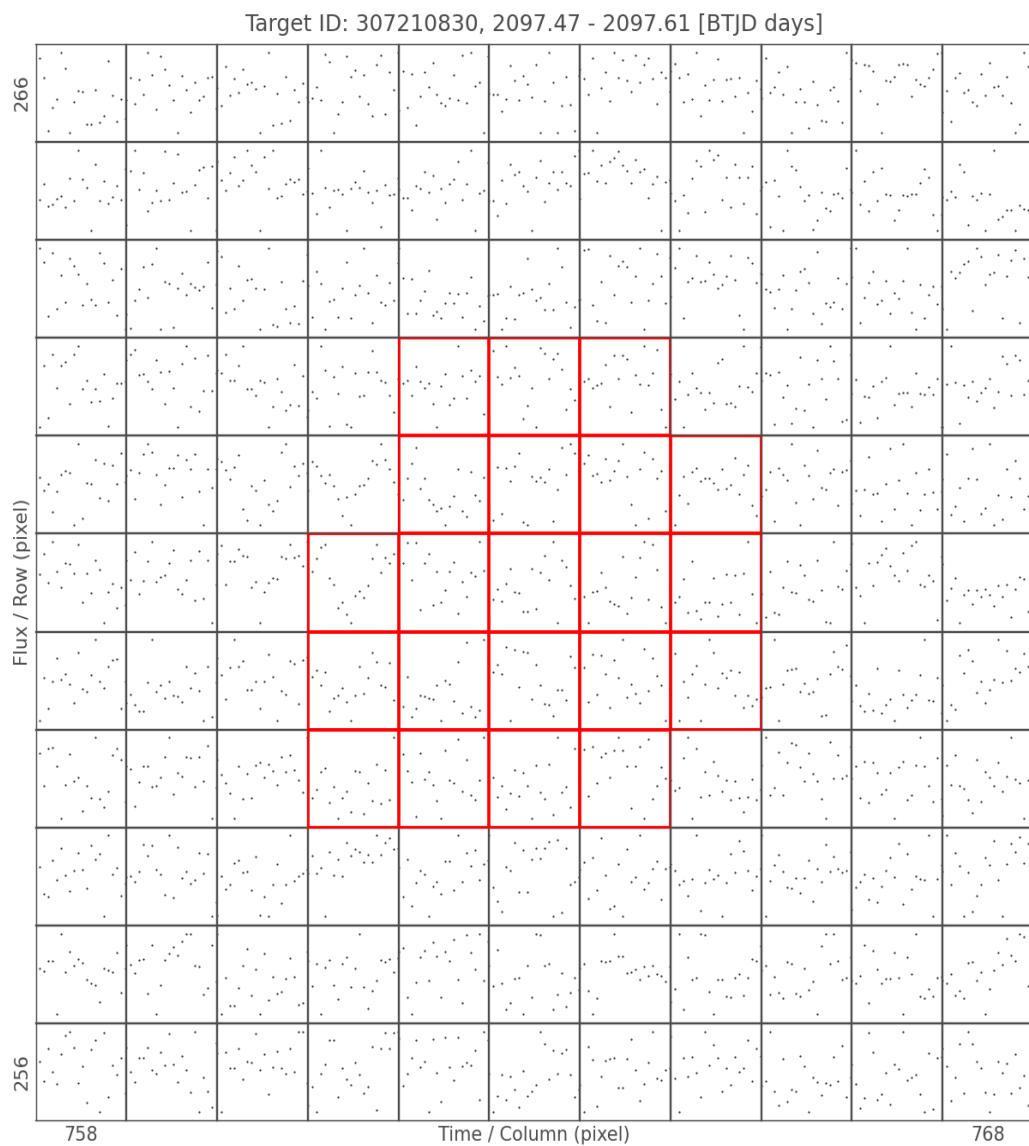
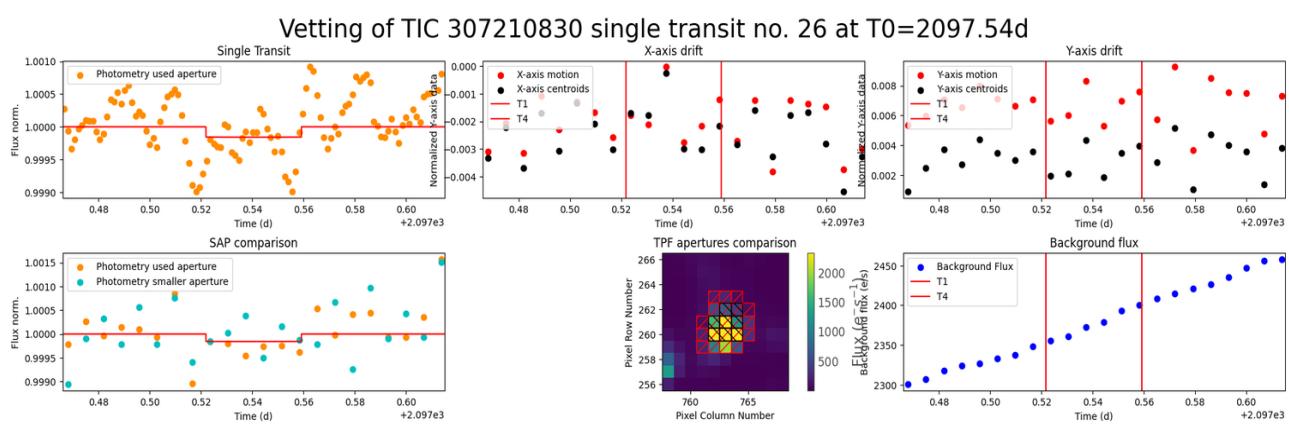


**Figure 38:** The single transit no. 25 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:48

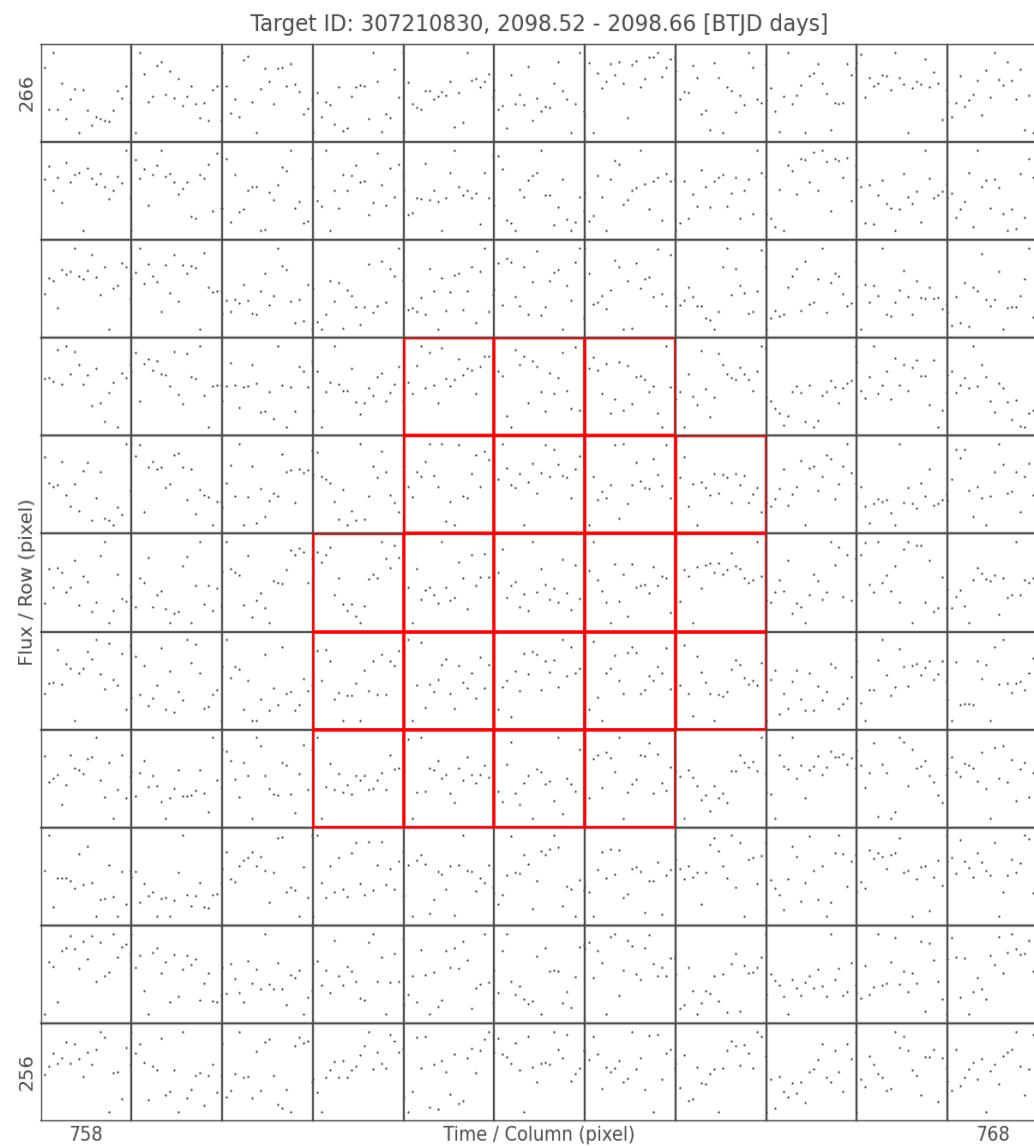
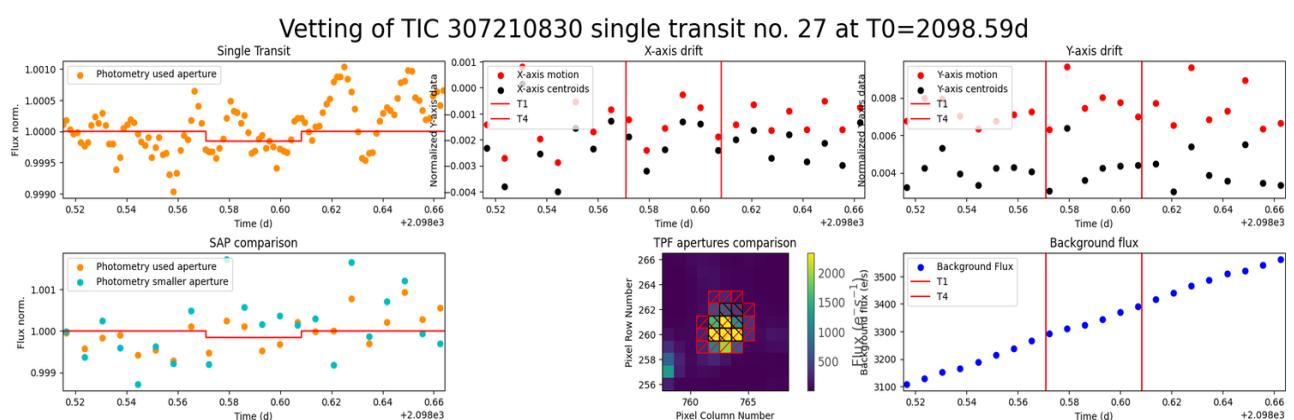


**Figure 39:** The single transit no. 26 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:48

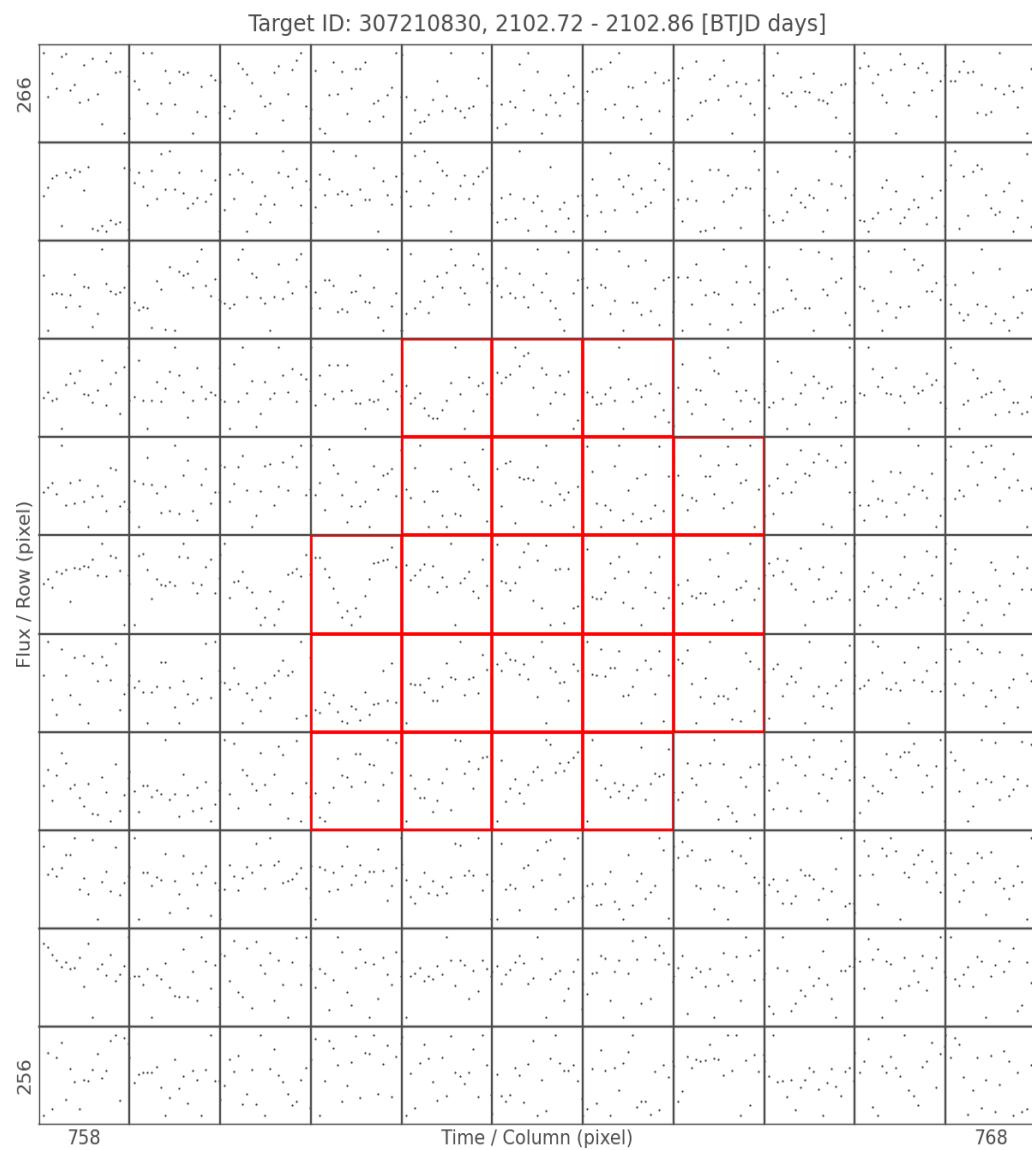
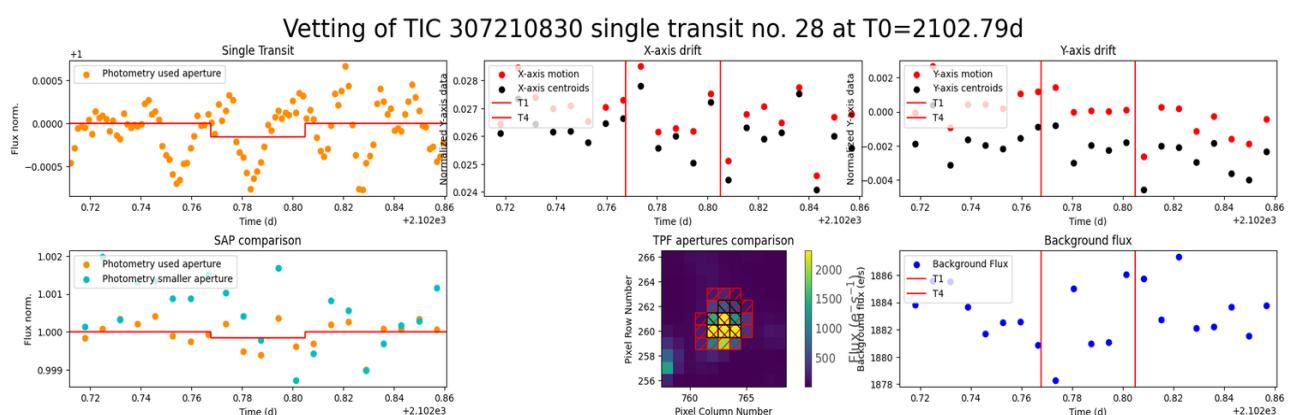


**Figure 40:** The single transit no. 27 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:48

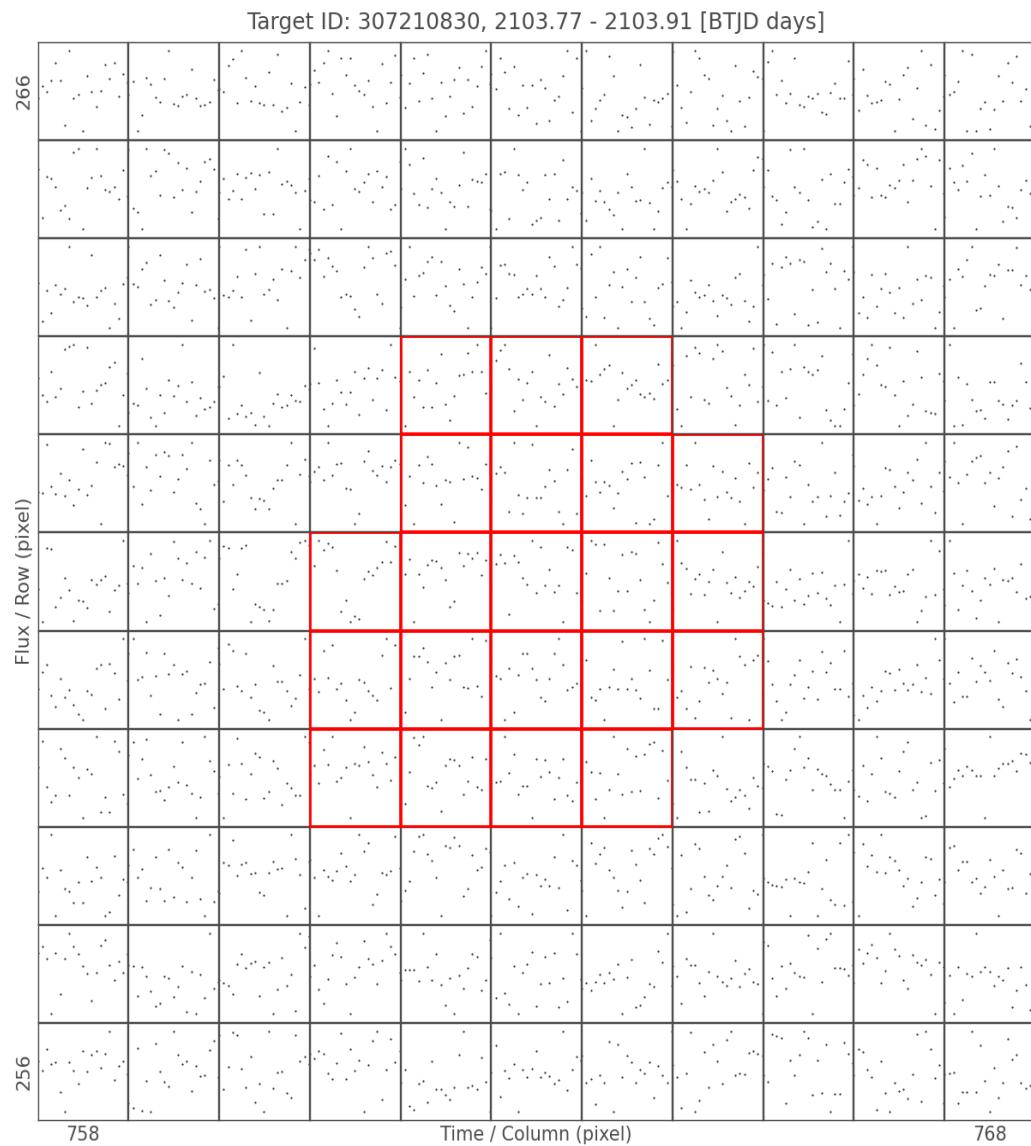
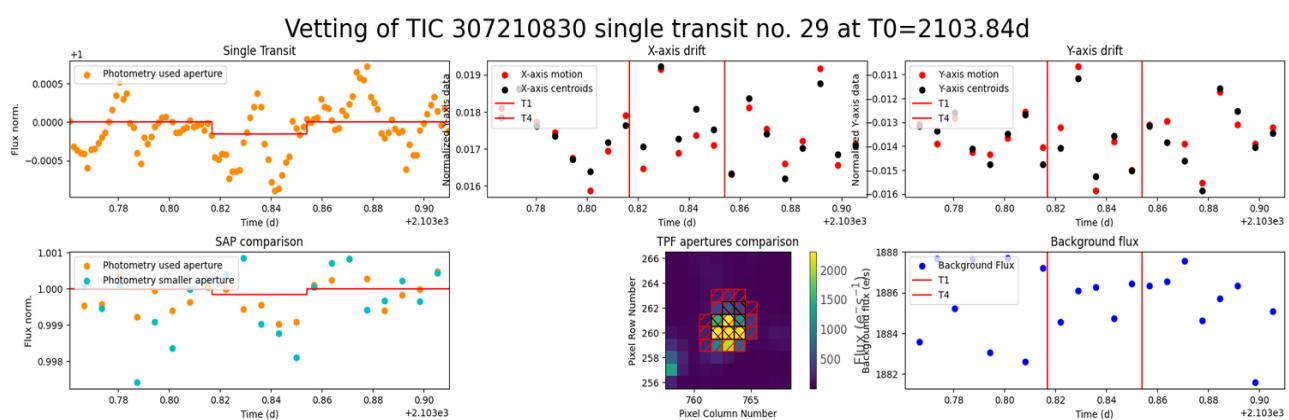


**Figure 41:** The single transit no. 28 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:48

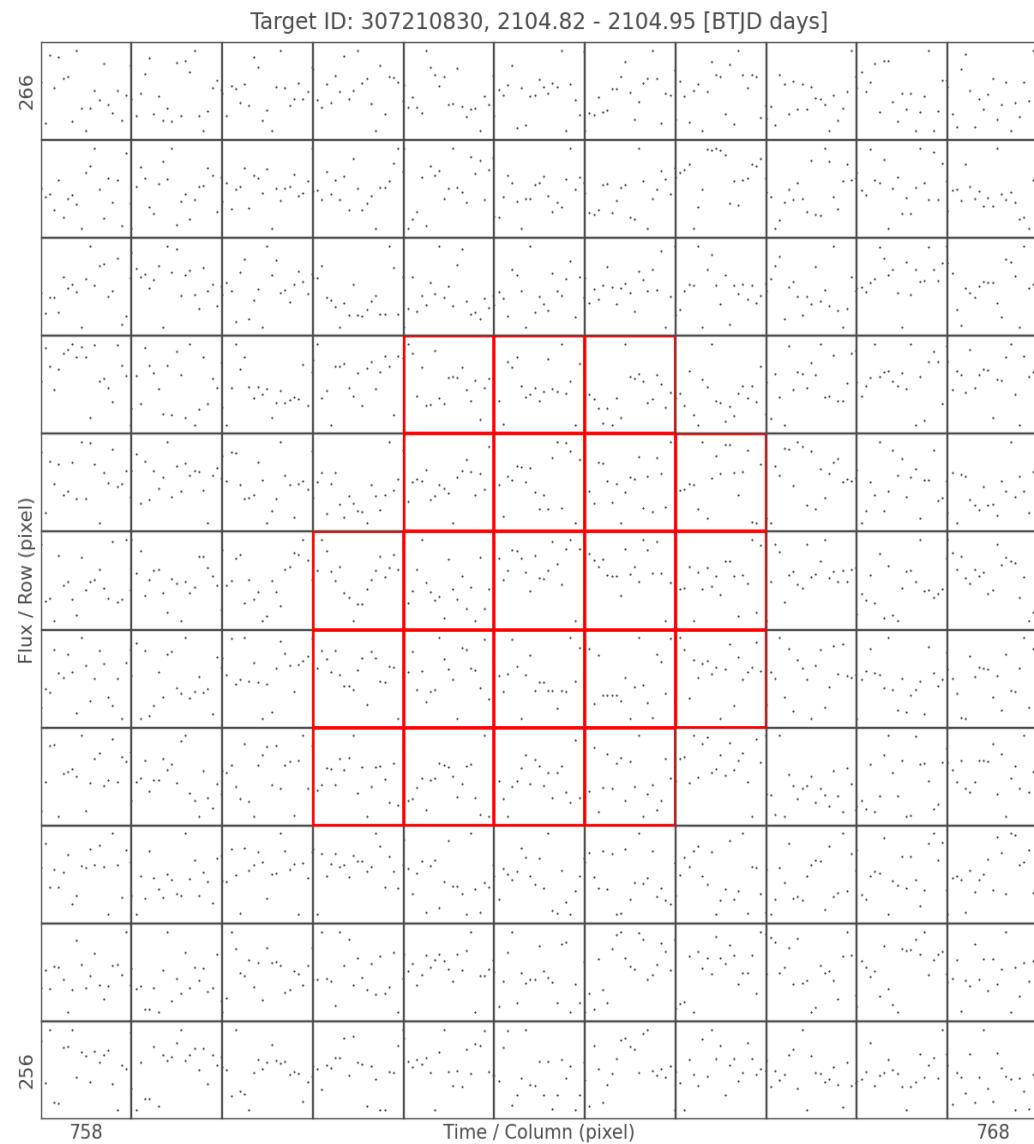
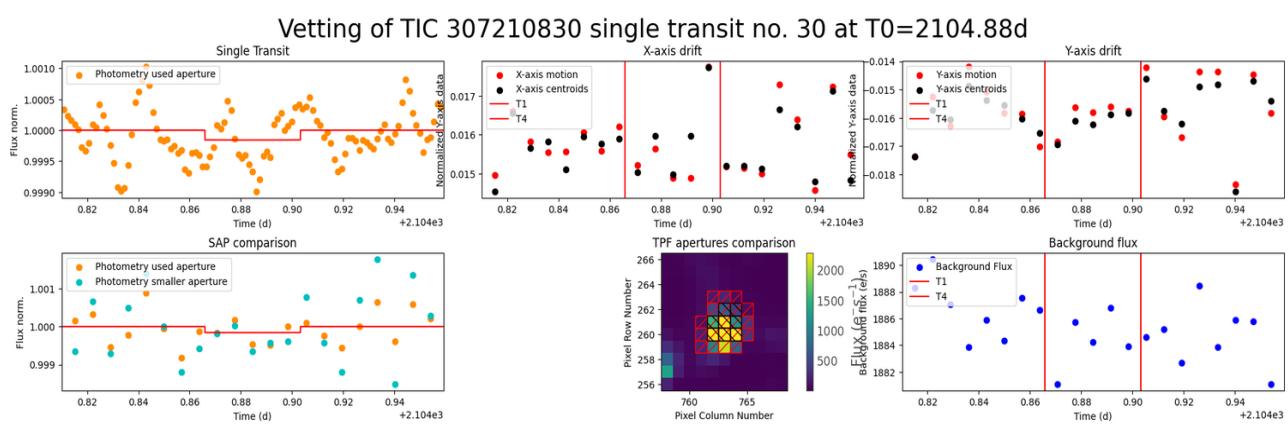


**Figure 42:** The single transit no. 29 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:48

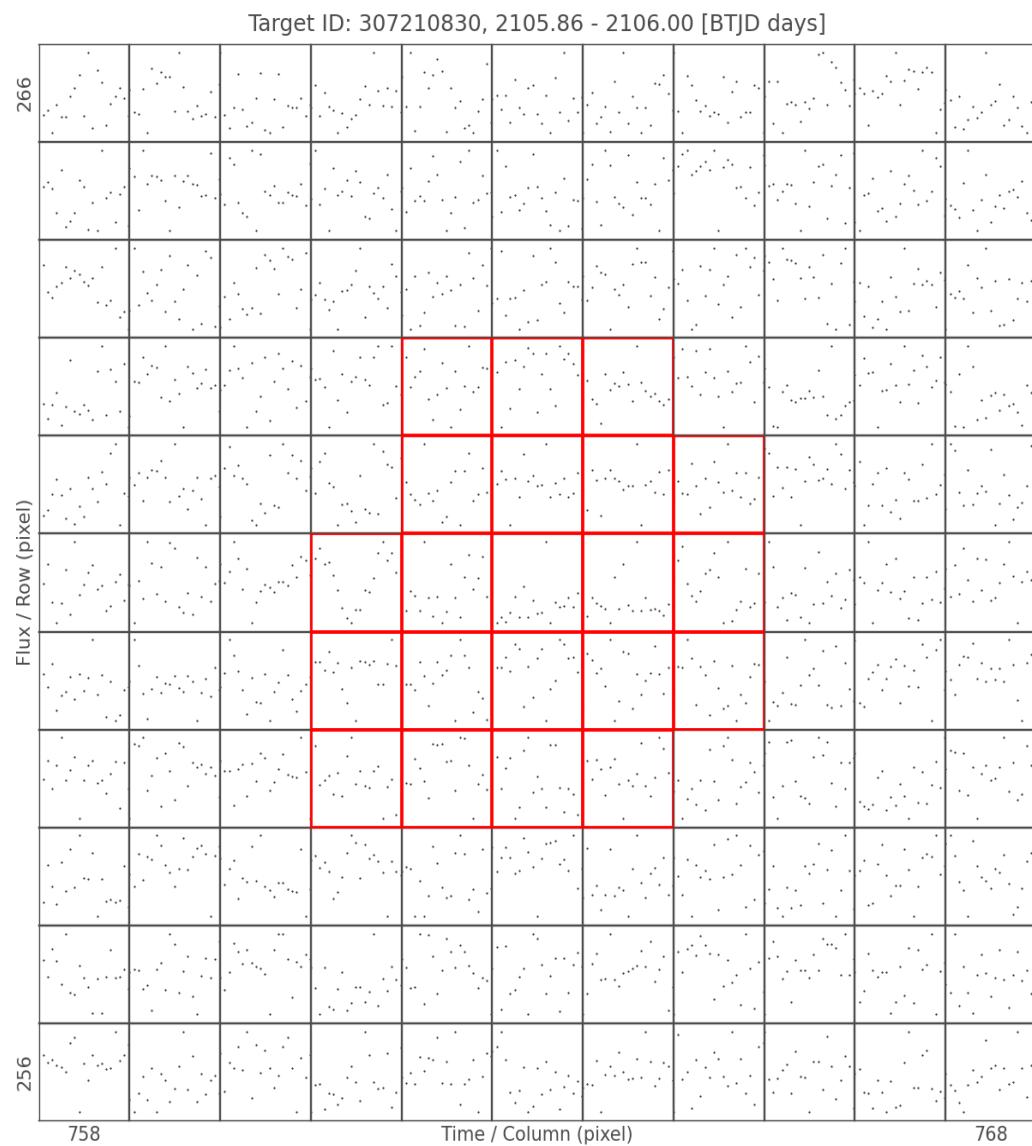
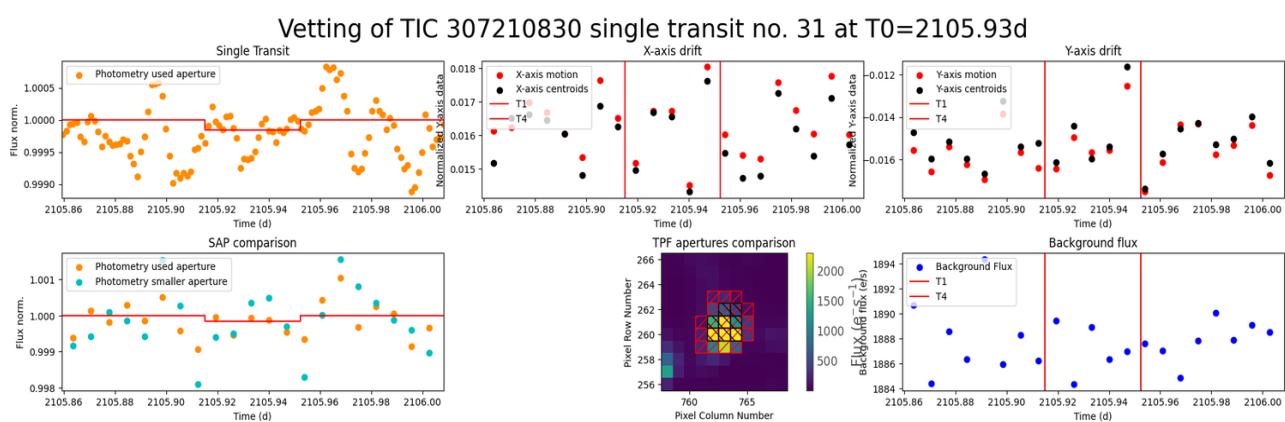


**Figure 43:** The single transit no. 30 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:49

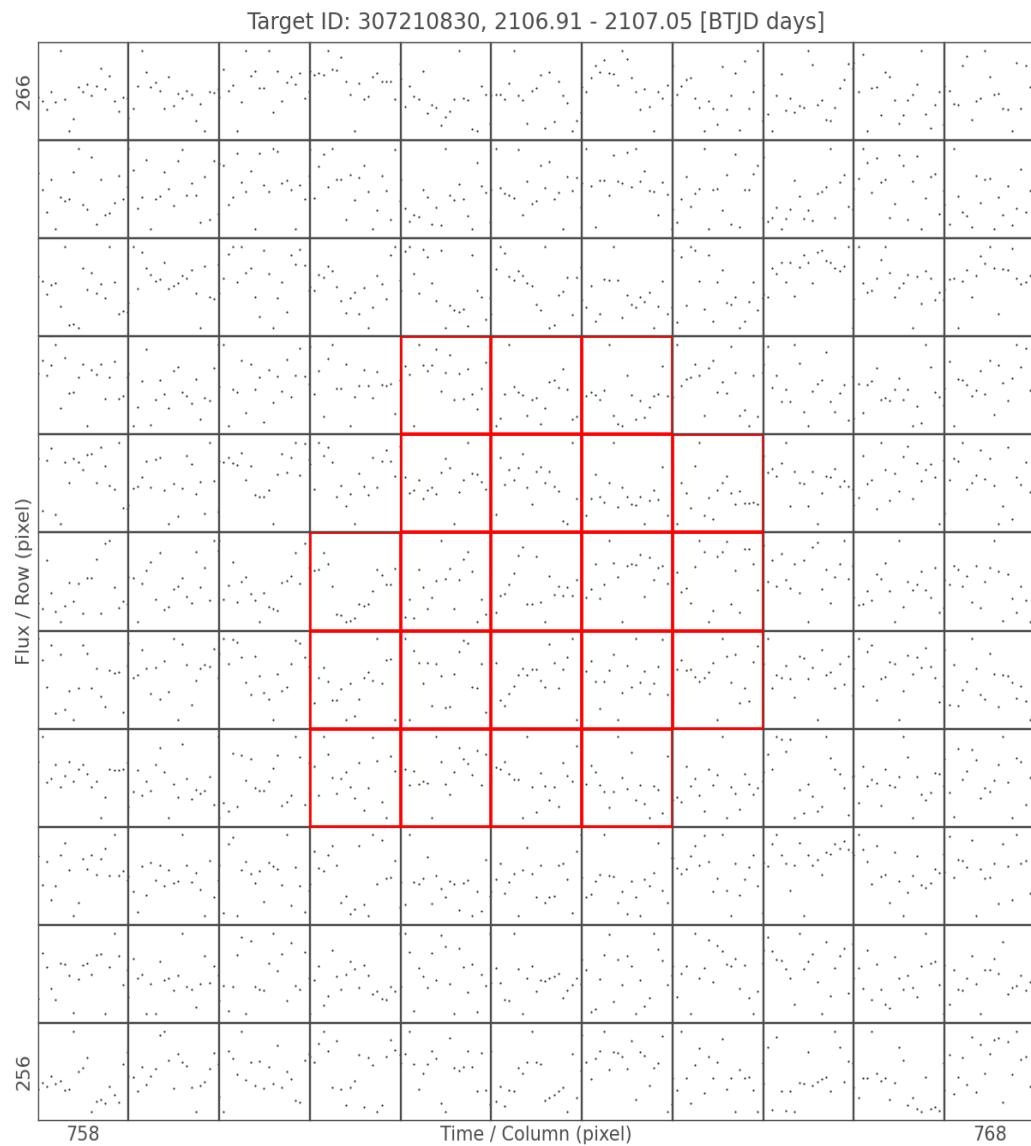
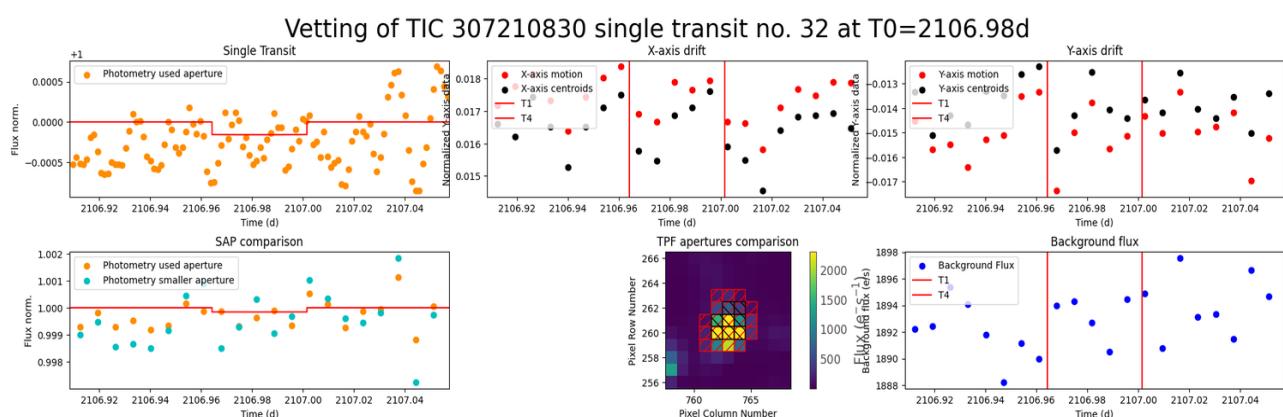


**Figure 44:** The single transit no. 31 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:49

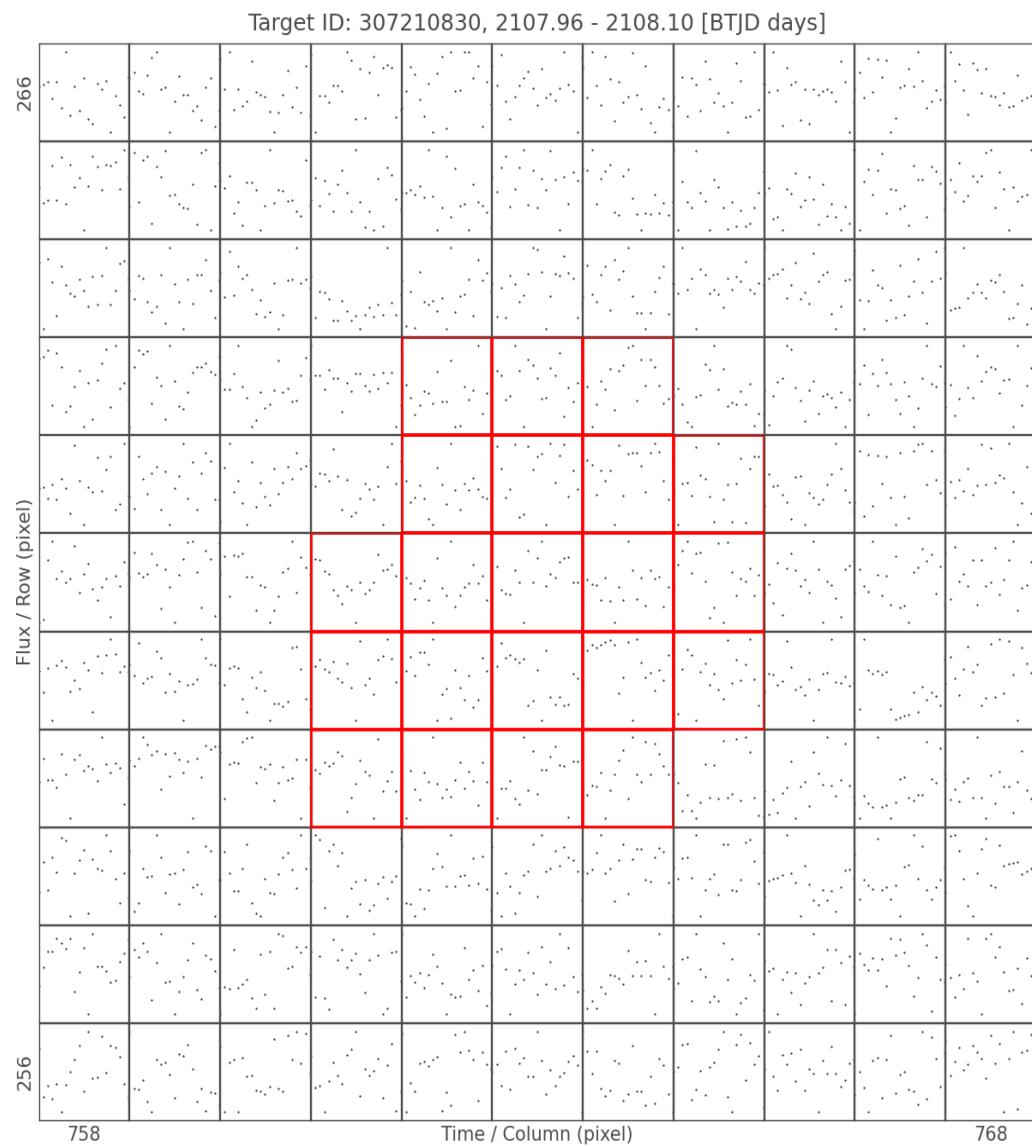
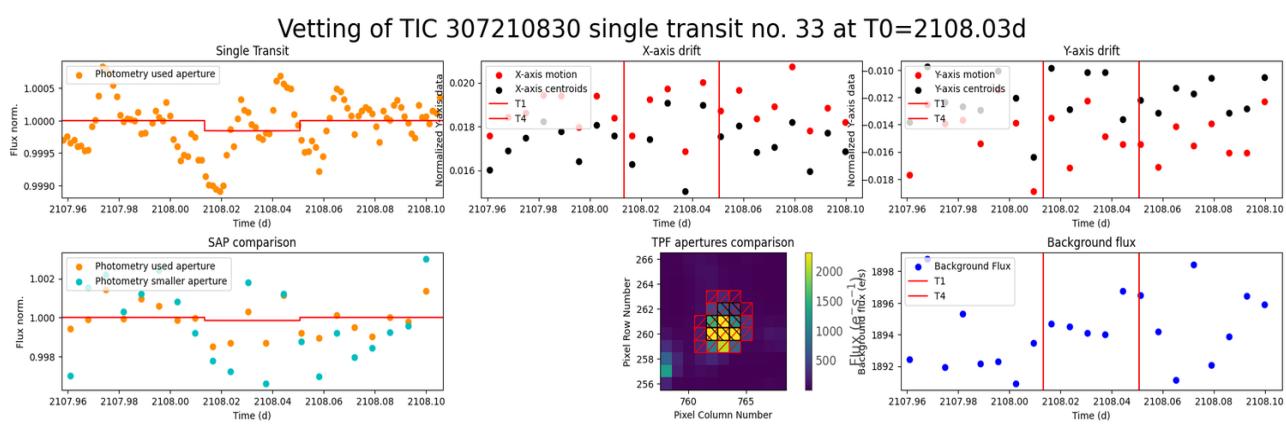


**Figure 45:** The single transit no. 32 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:49

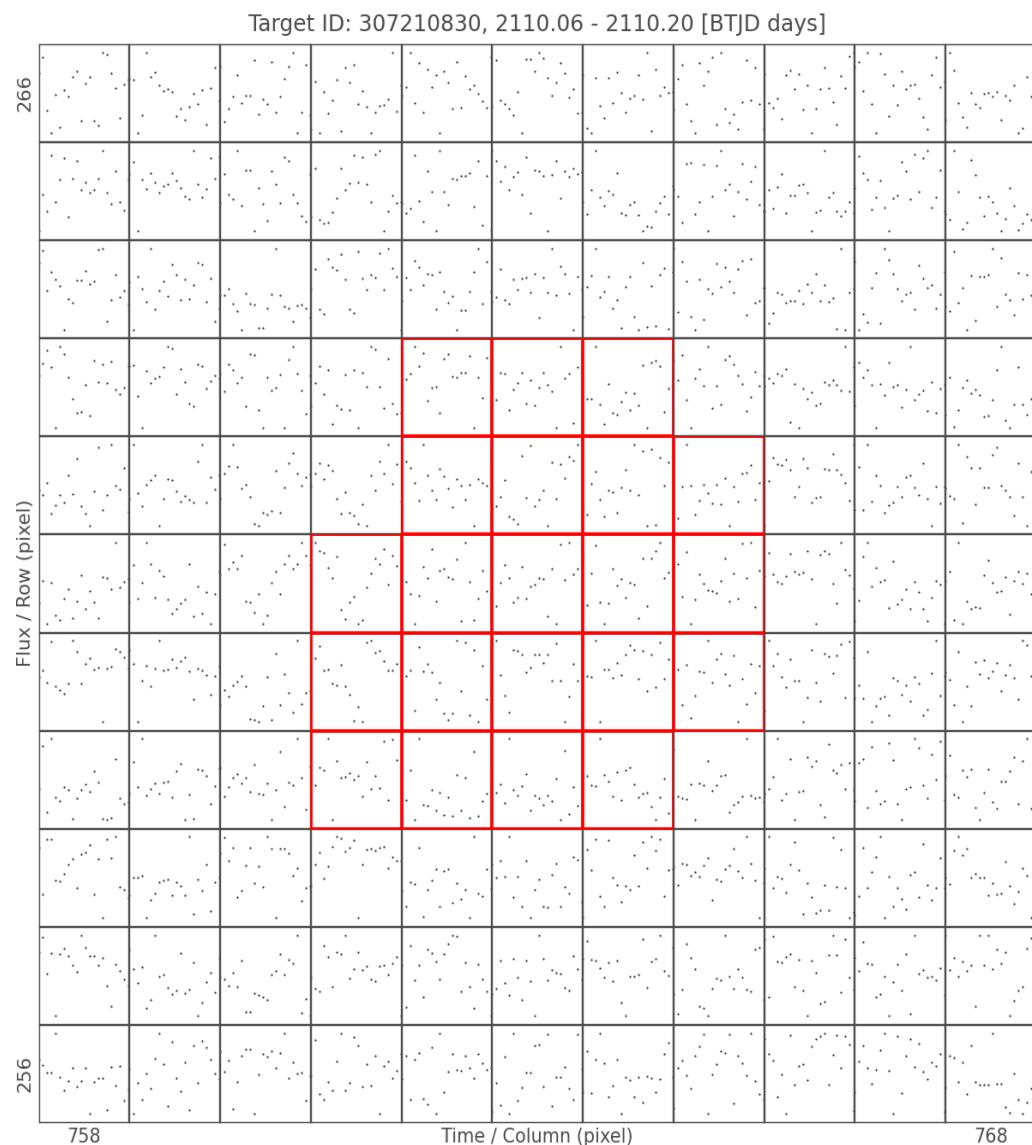
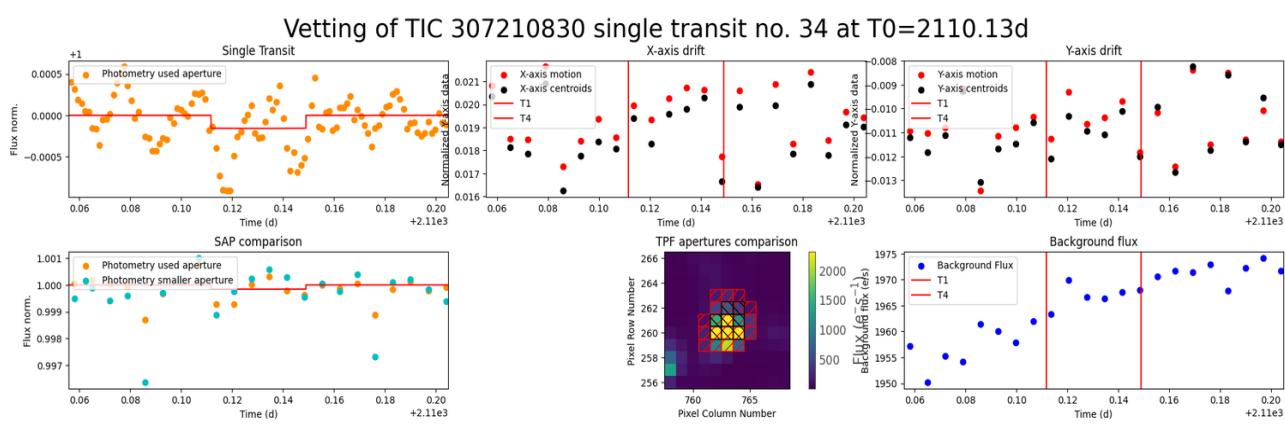


**Figure 46:** The single transit no. 33 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:49

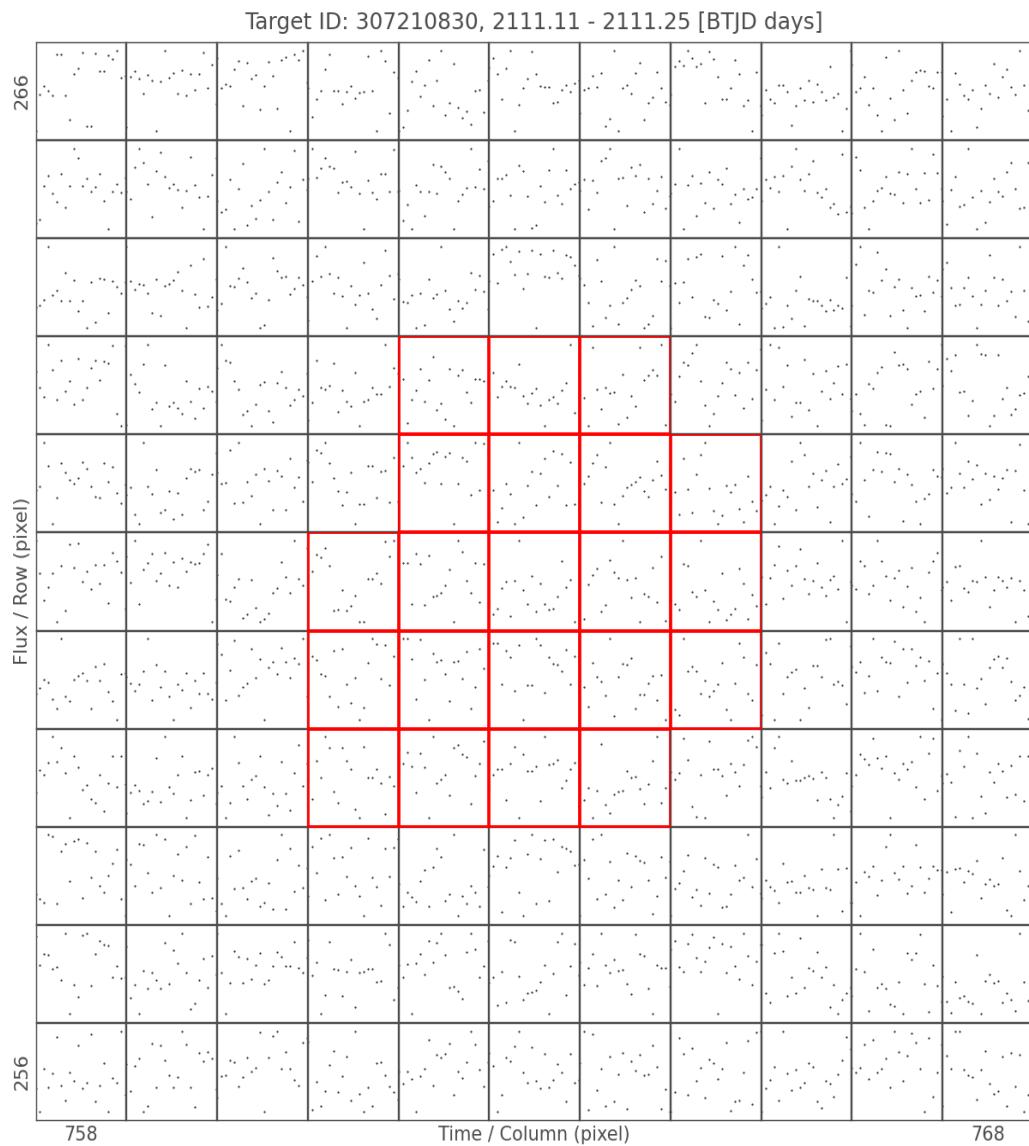
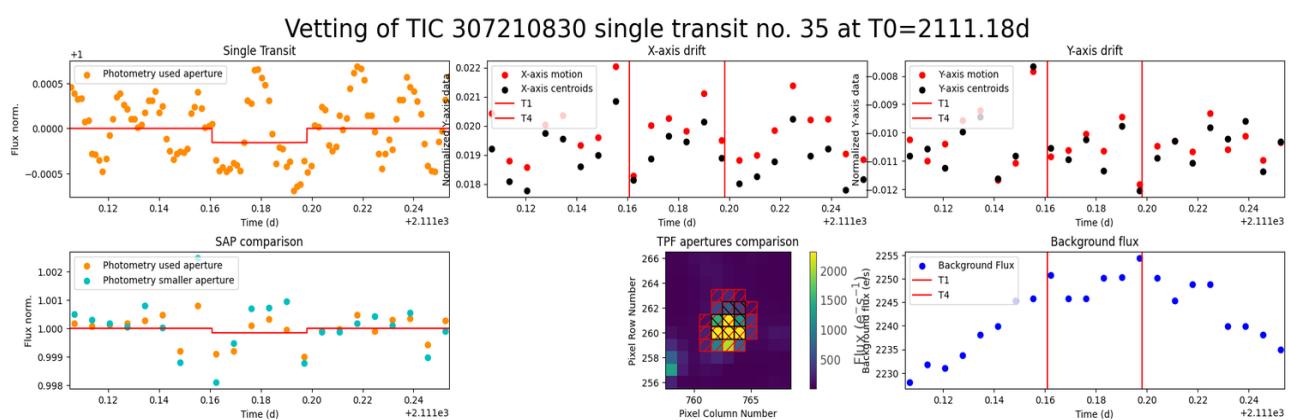


**Figure 47:** The single transit no. 34 vetting plots

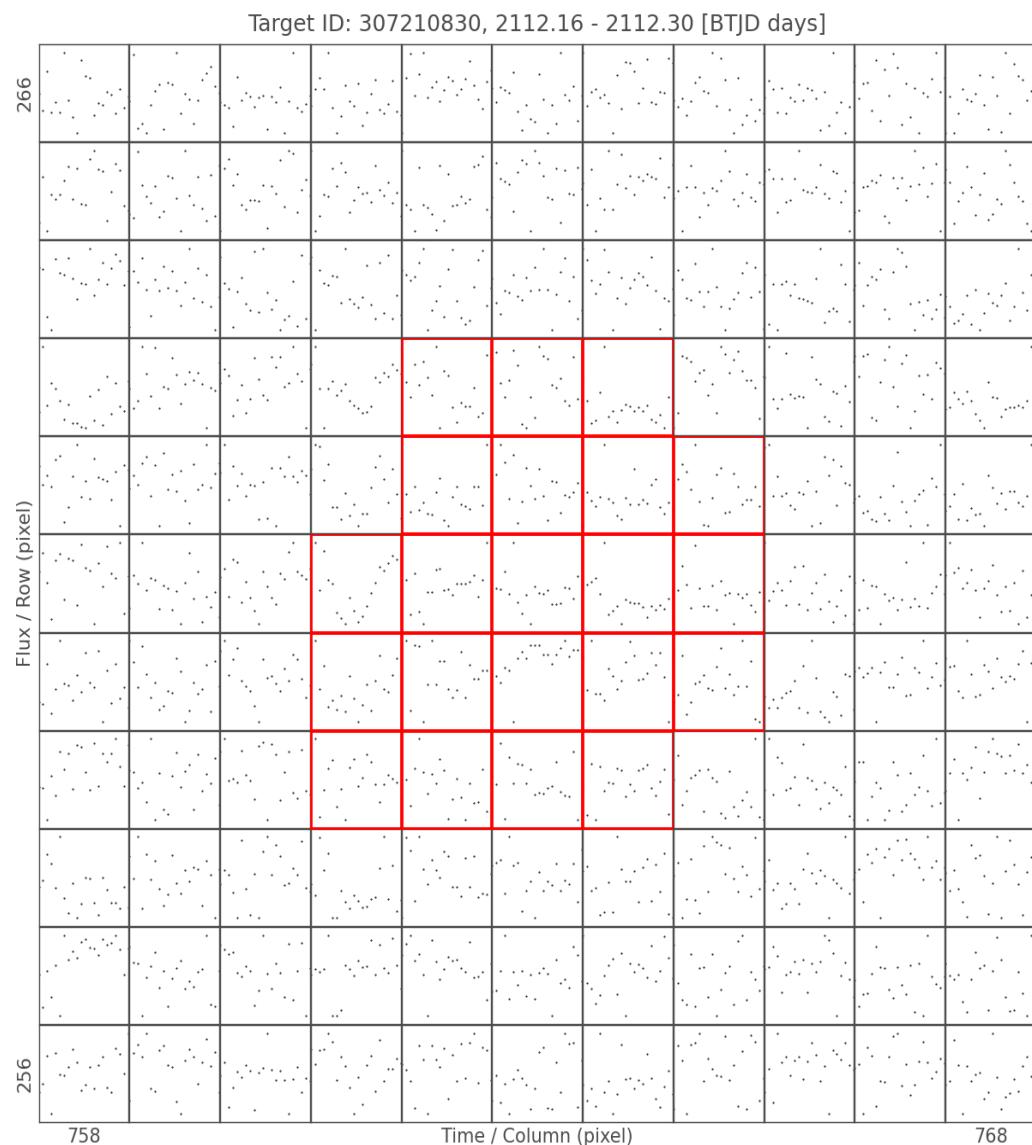
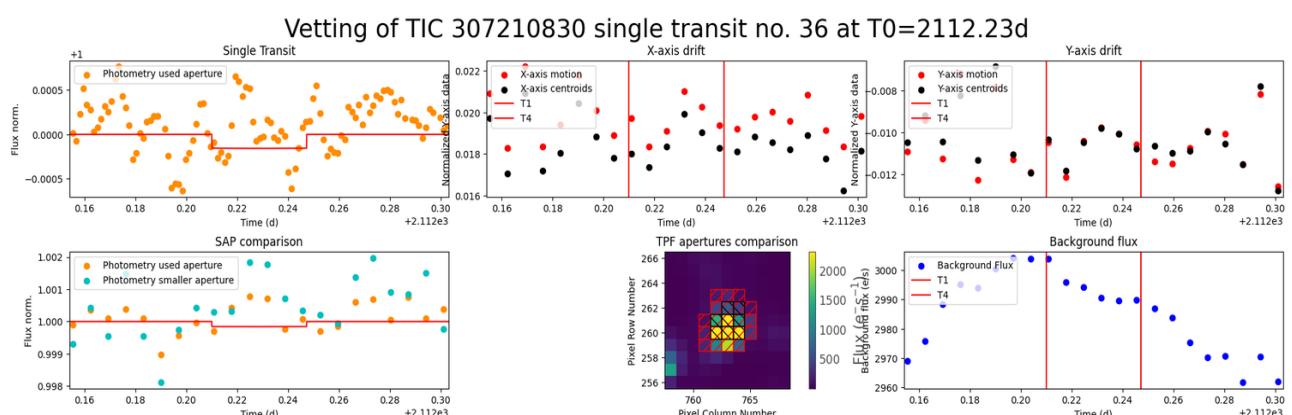


# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:49



**Figure 48:** The single transit no. 35 vetting plots

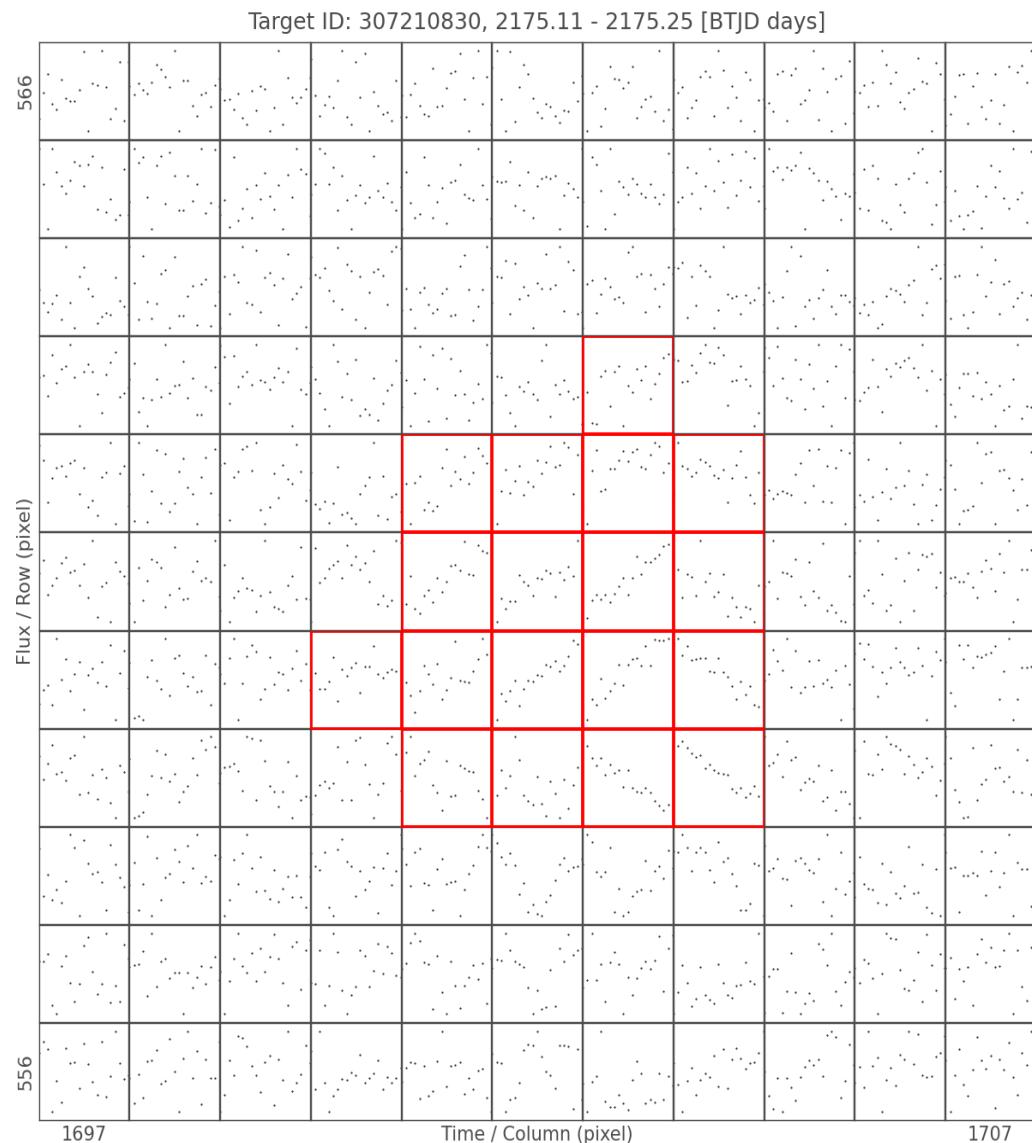
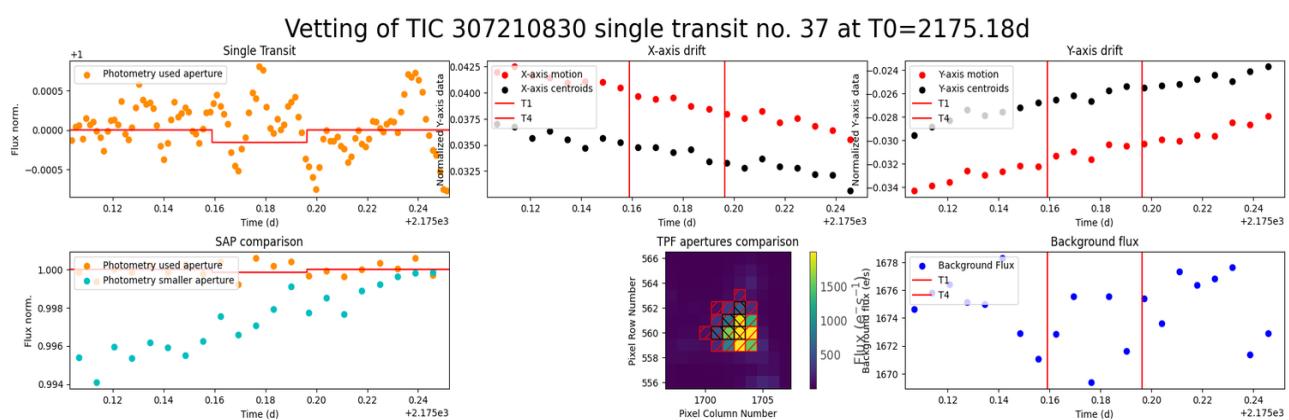


**Figure 49:** The single transit no. 36 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:50

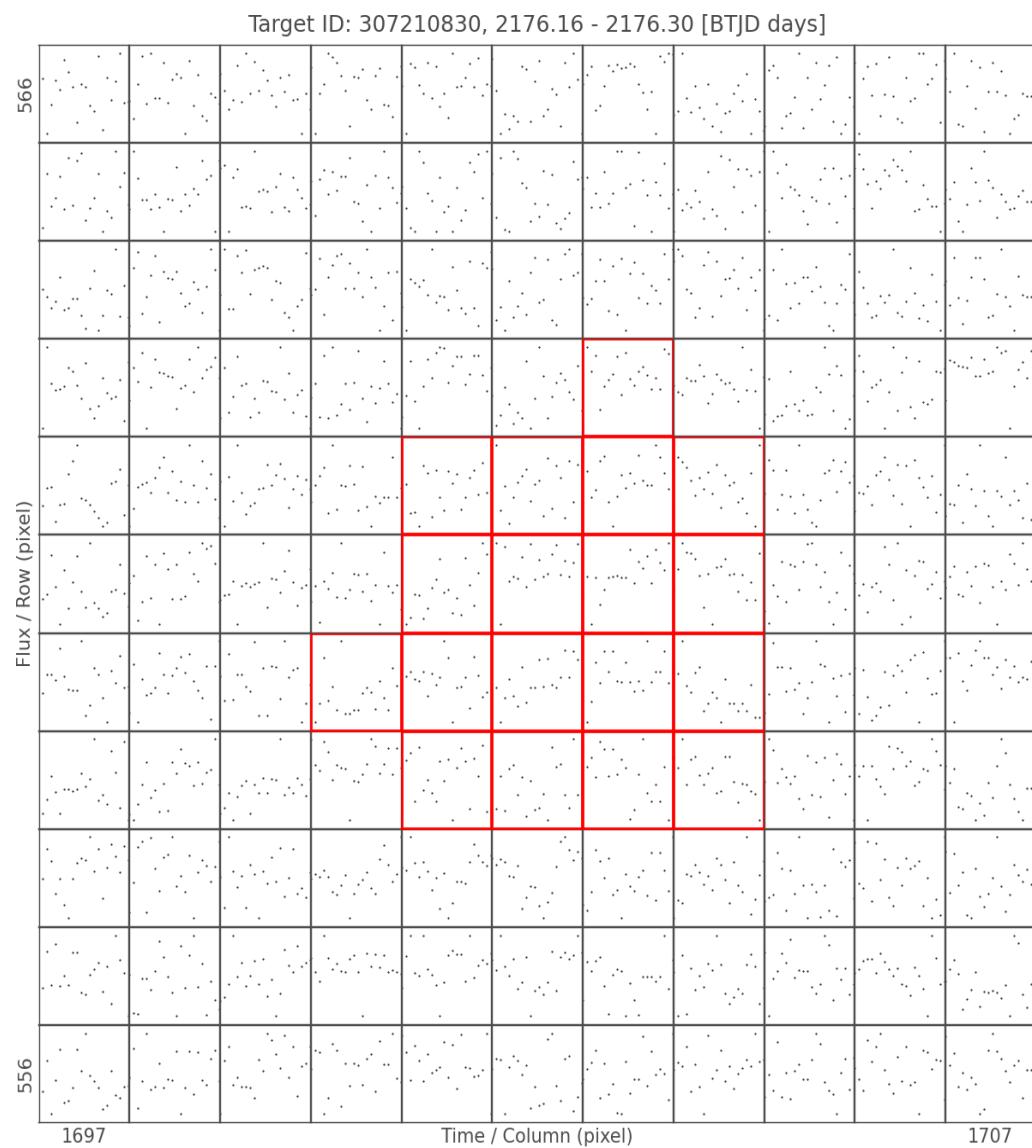
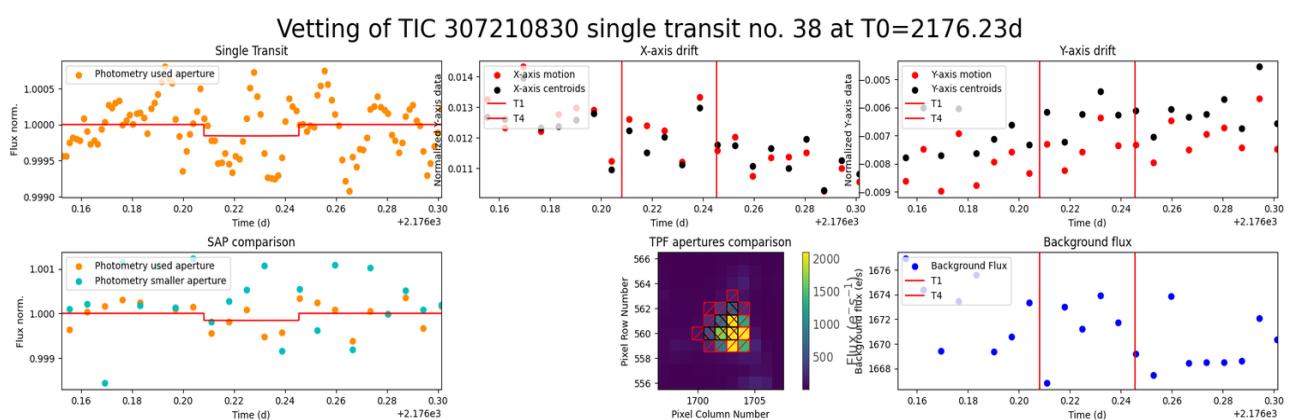


**Figure 50:** The single transit no. 37 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:50

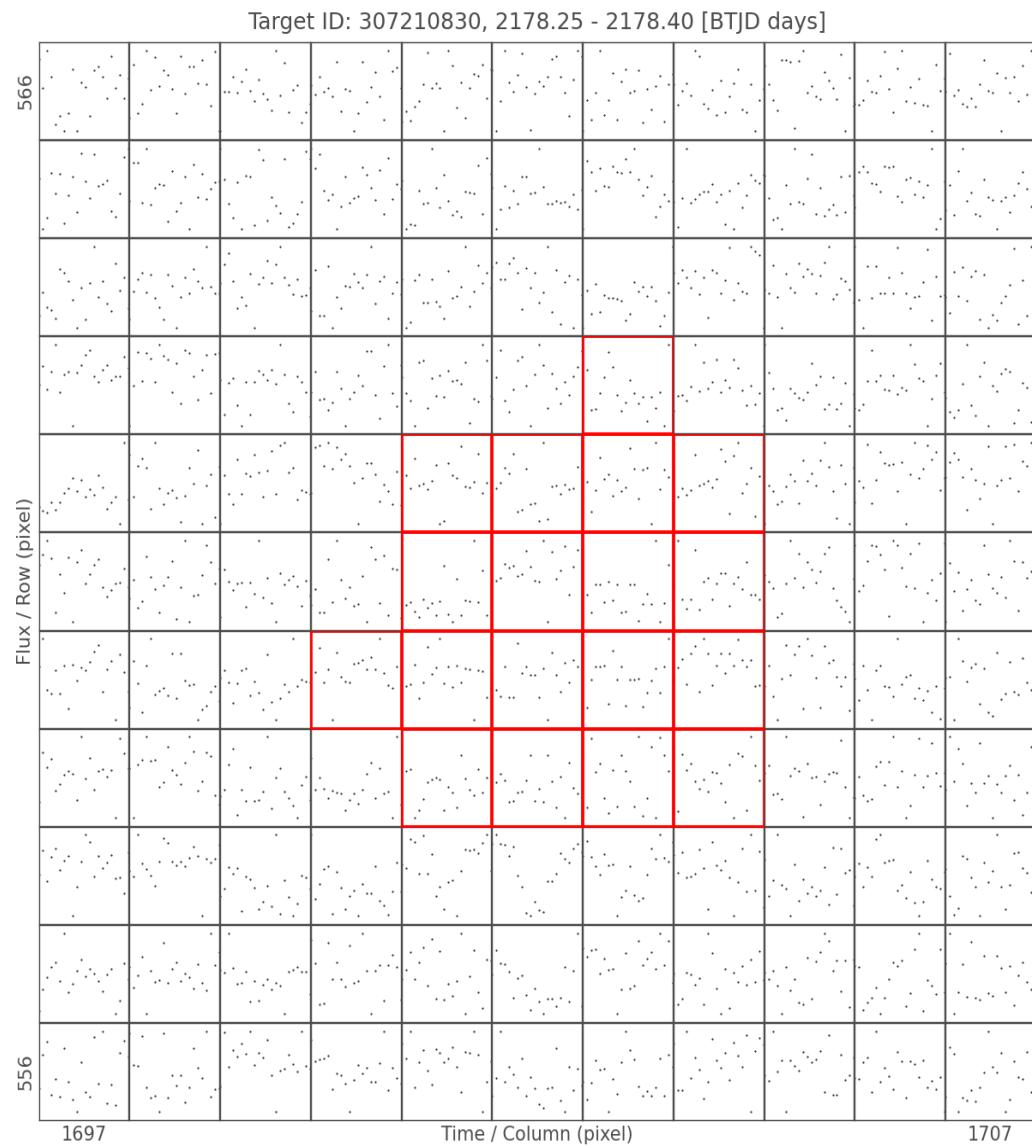
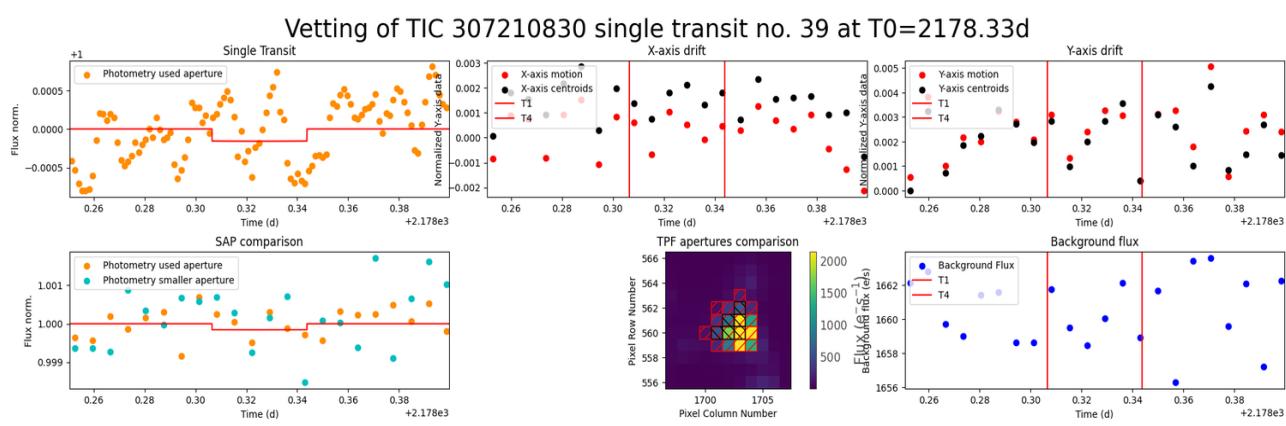


**Figure 51:** The single transit no. 38 vetting plots

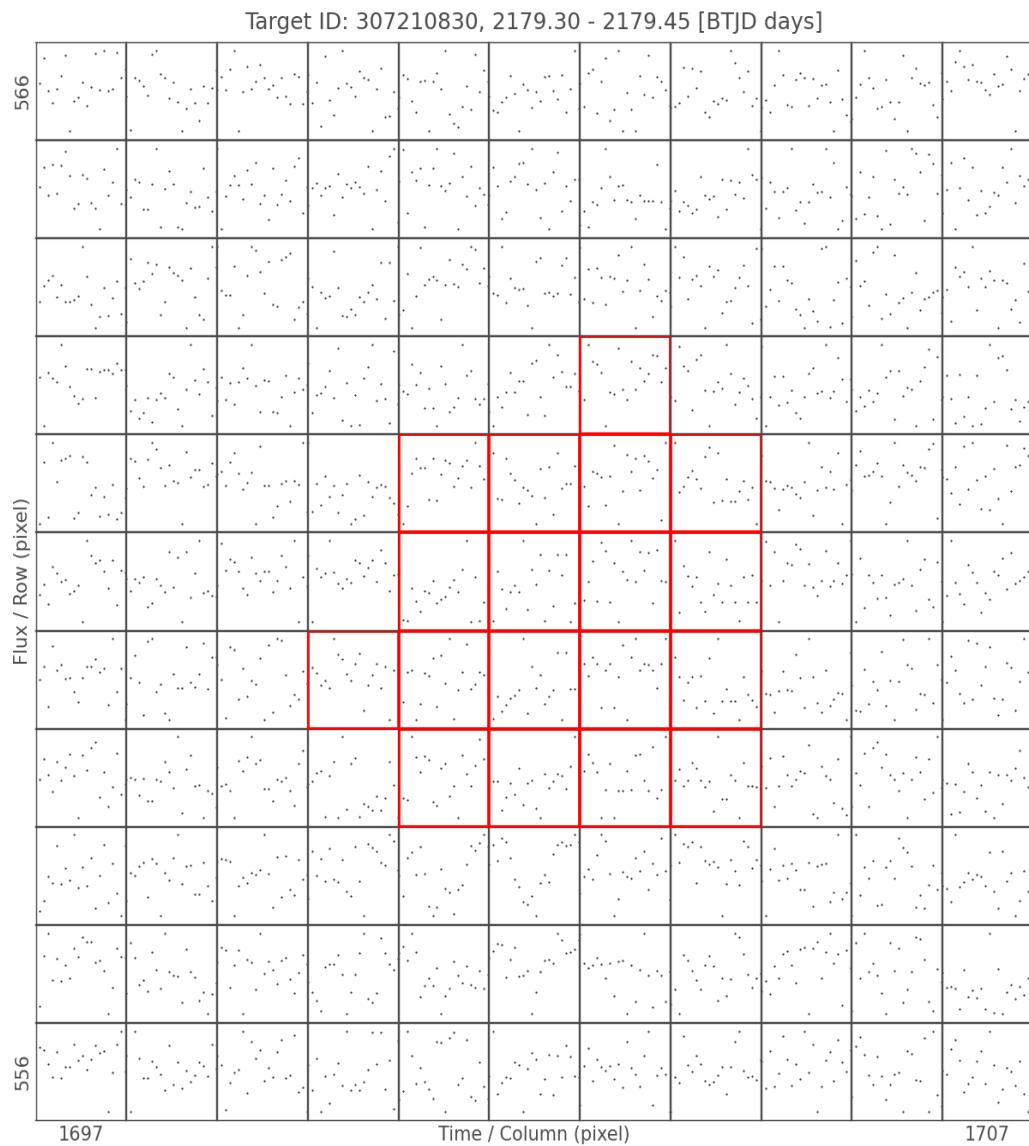
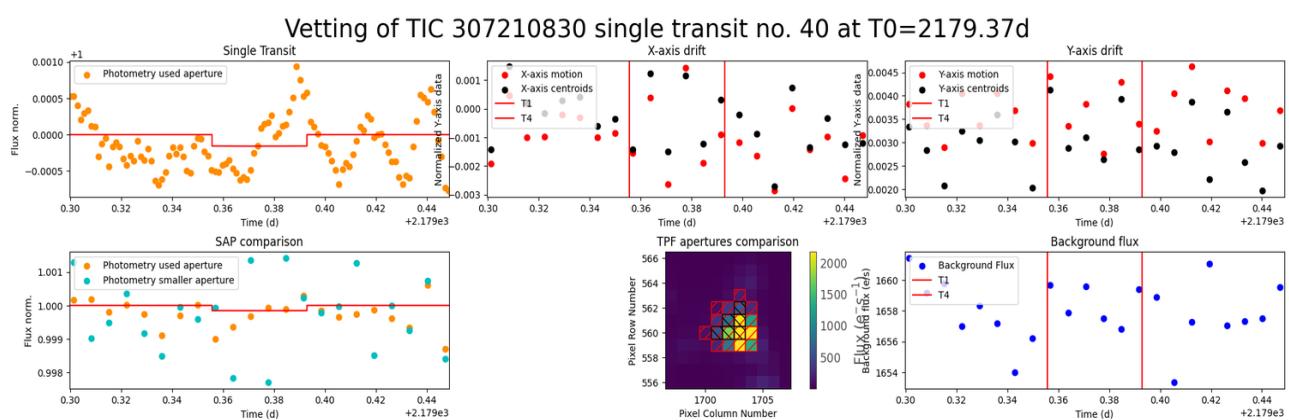


# WATSON Transits Validation Report: TIC 307210830

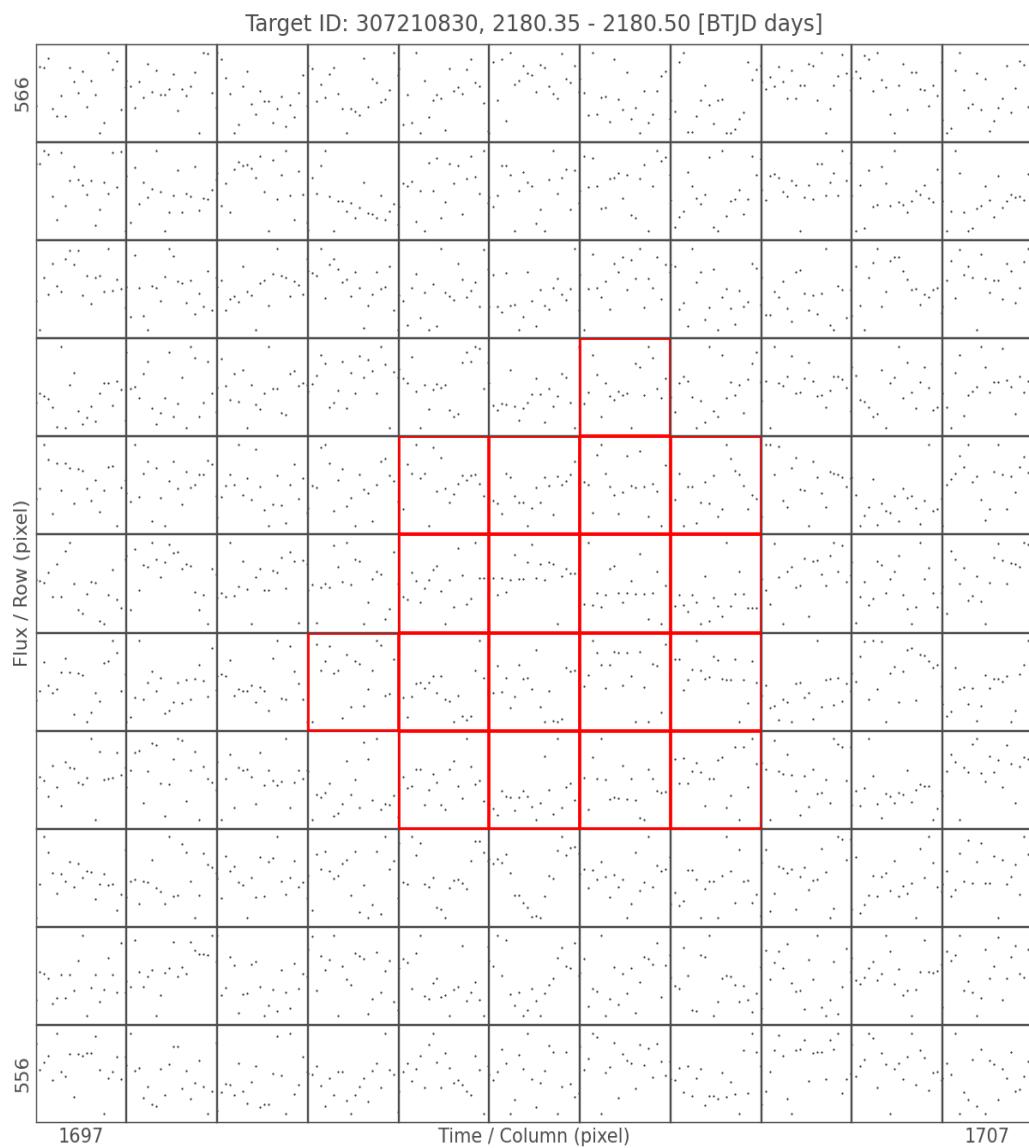
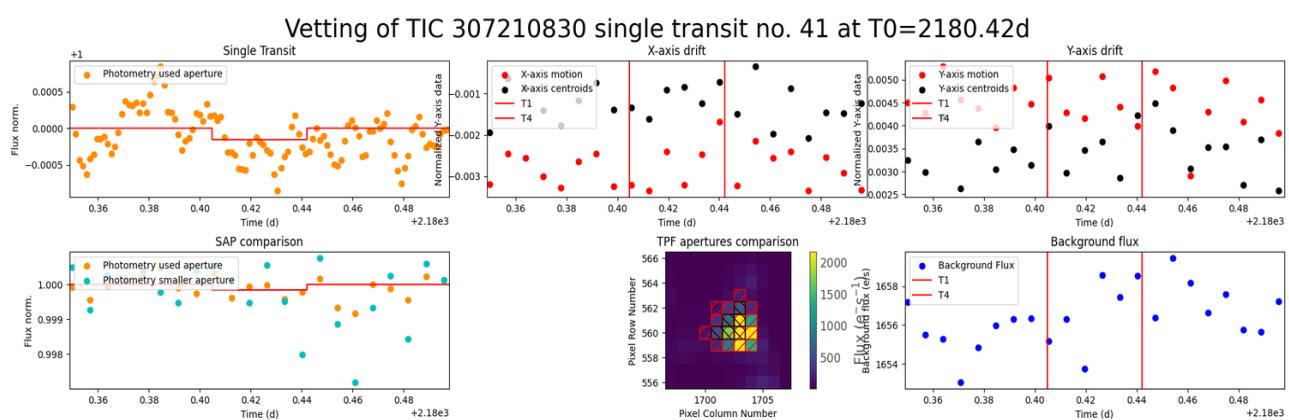
Wed, 09 November 2022, 11:03:50



**Figure 52:** The single transit no. 39 vetting plots



**Figure 53:** The single transit no. 40 vetting plots

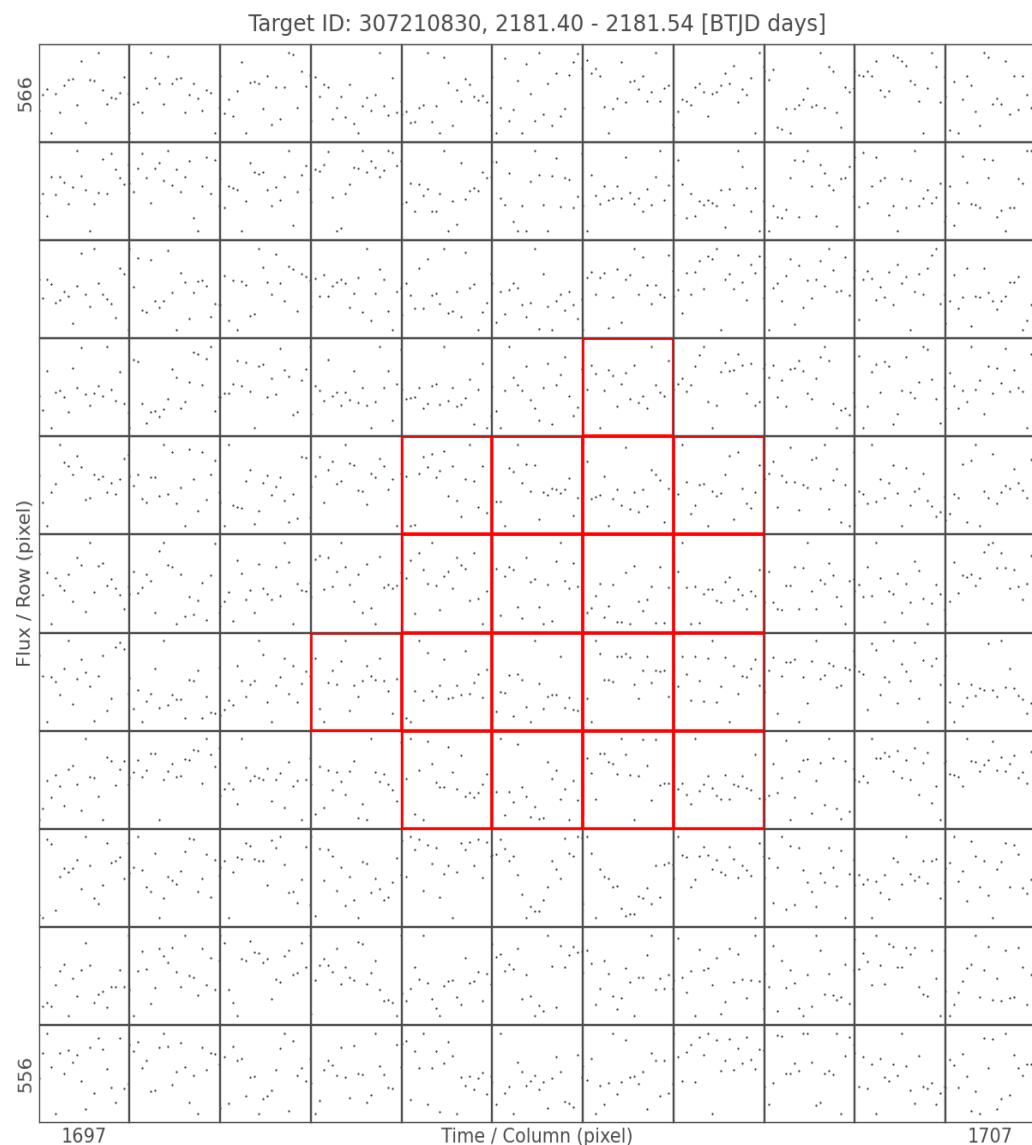
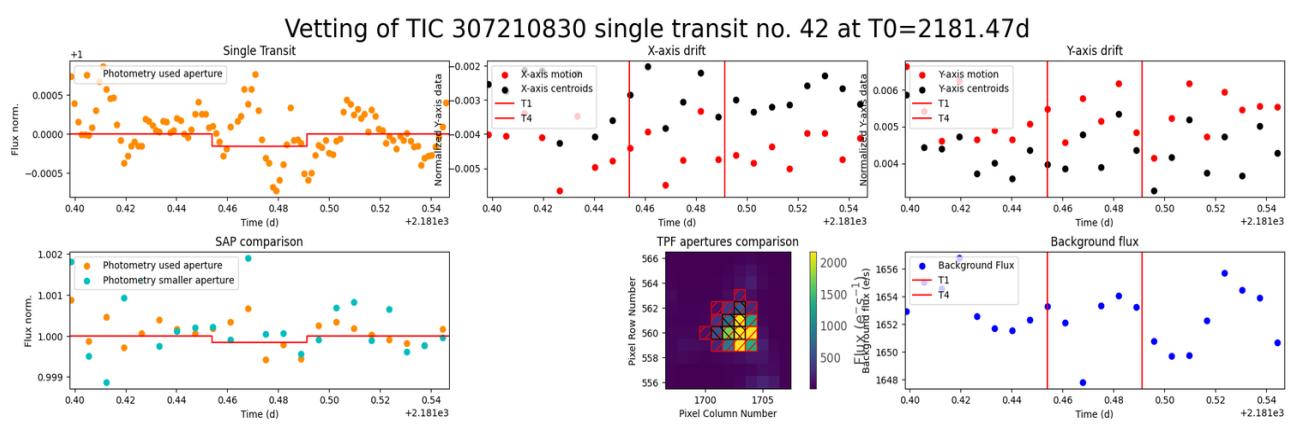


**Figure 54:** The single transit no. 41 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:50



**Figure 55:** The single transit no. 42 vetting plots

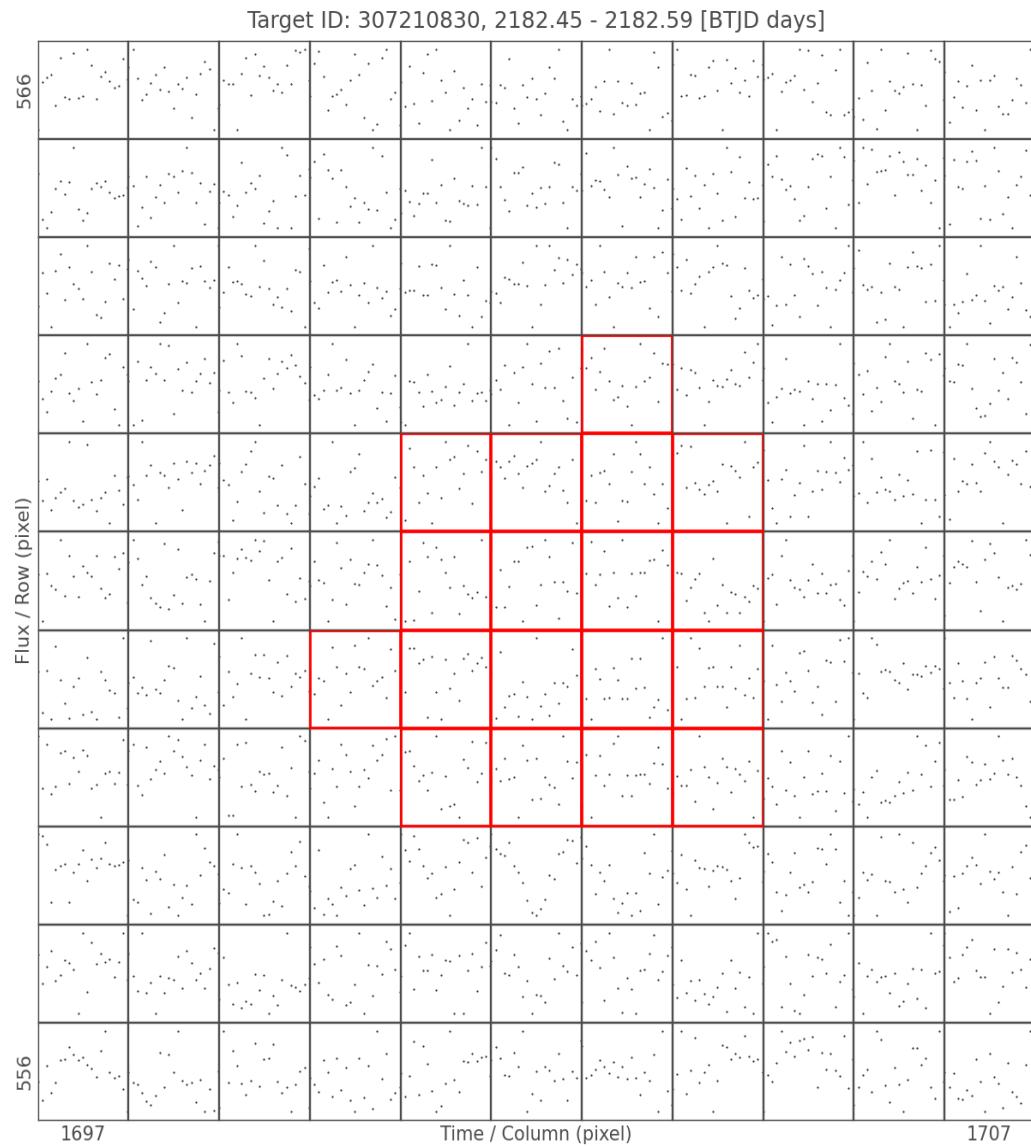
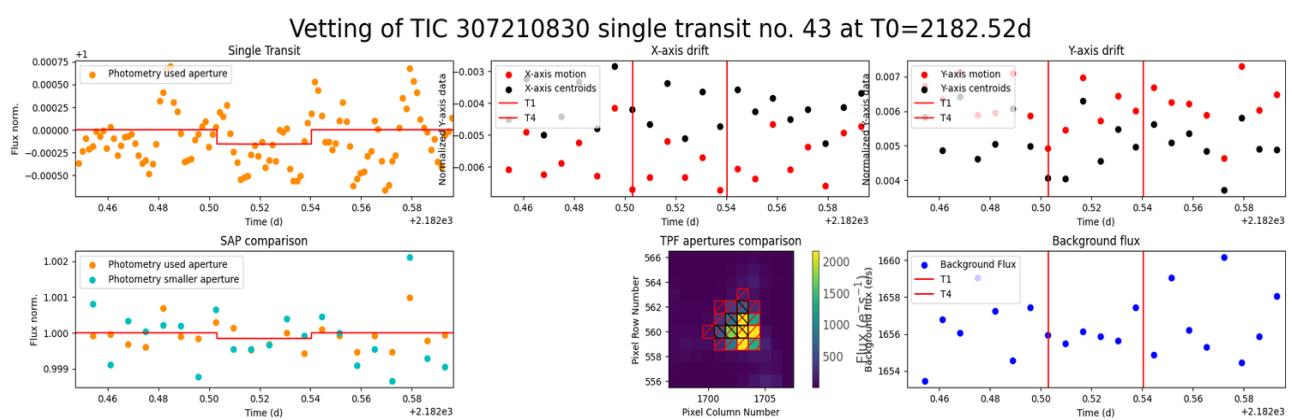
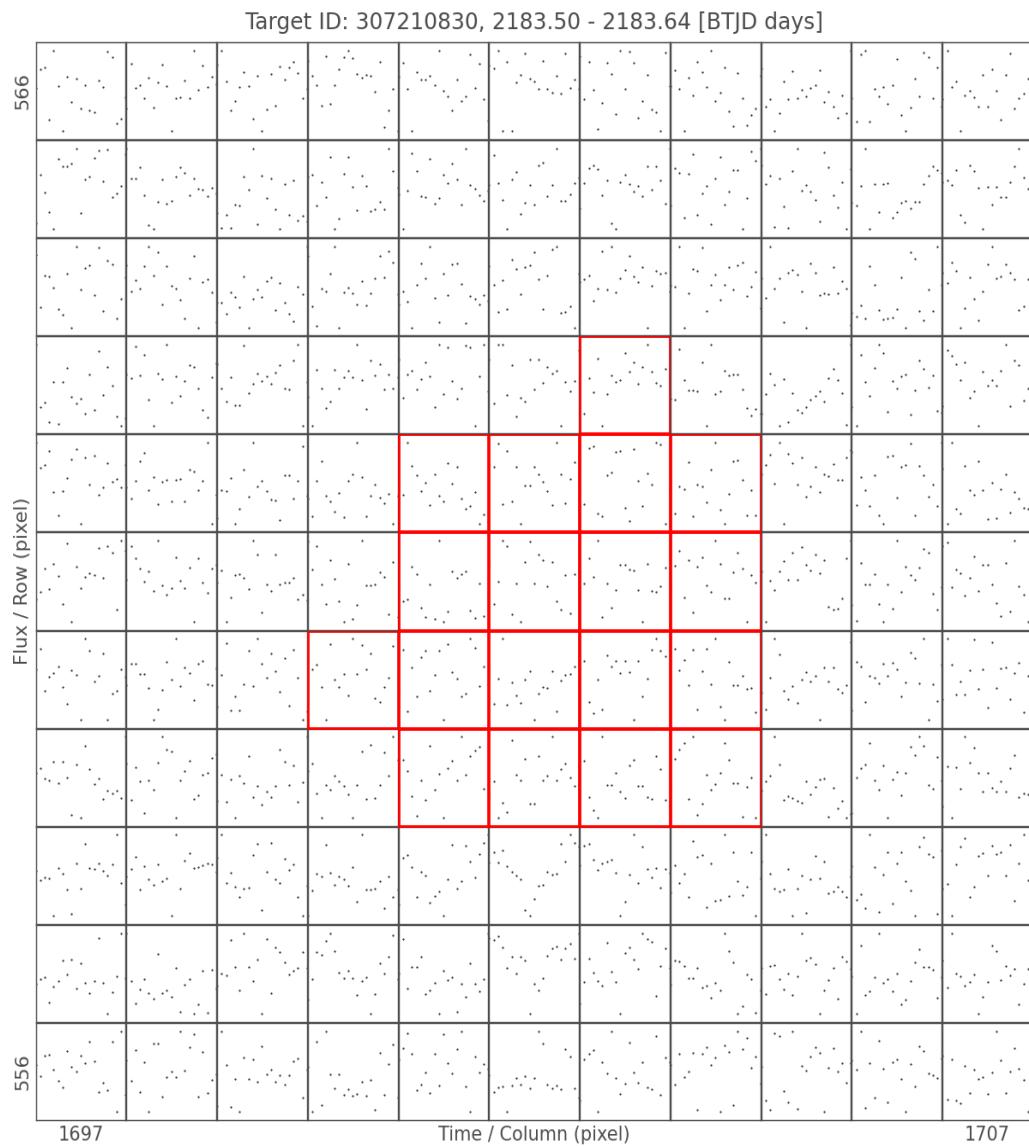
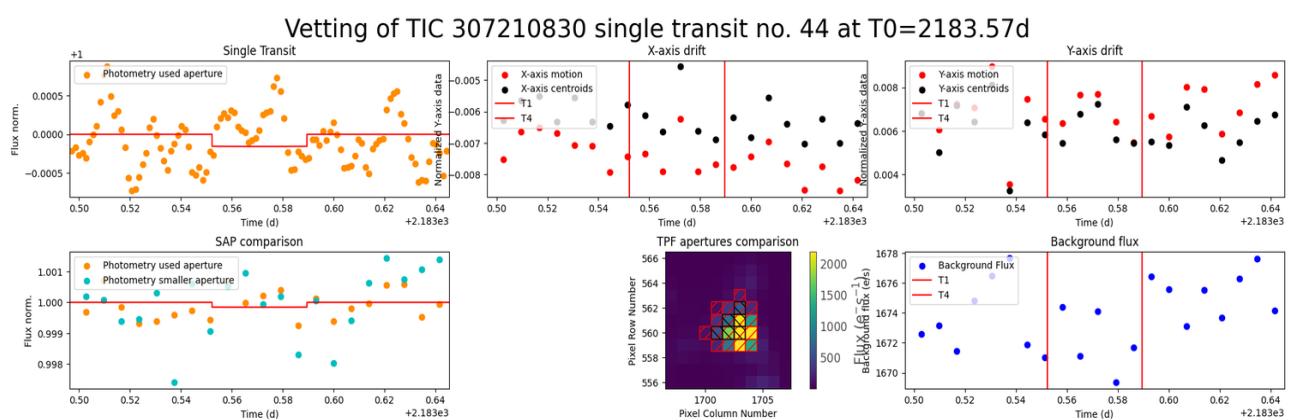


Figure 56: The single transit no. 43 vetting plots

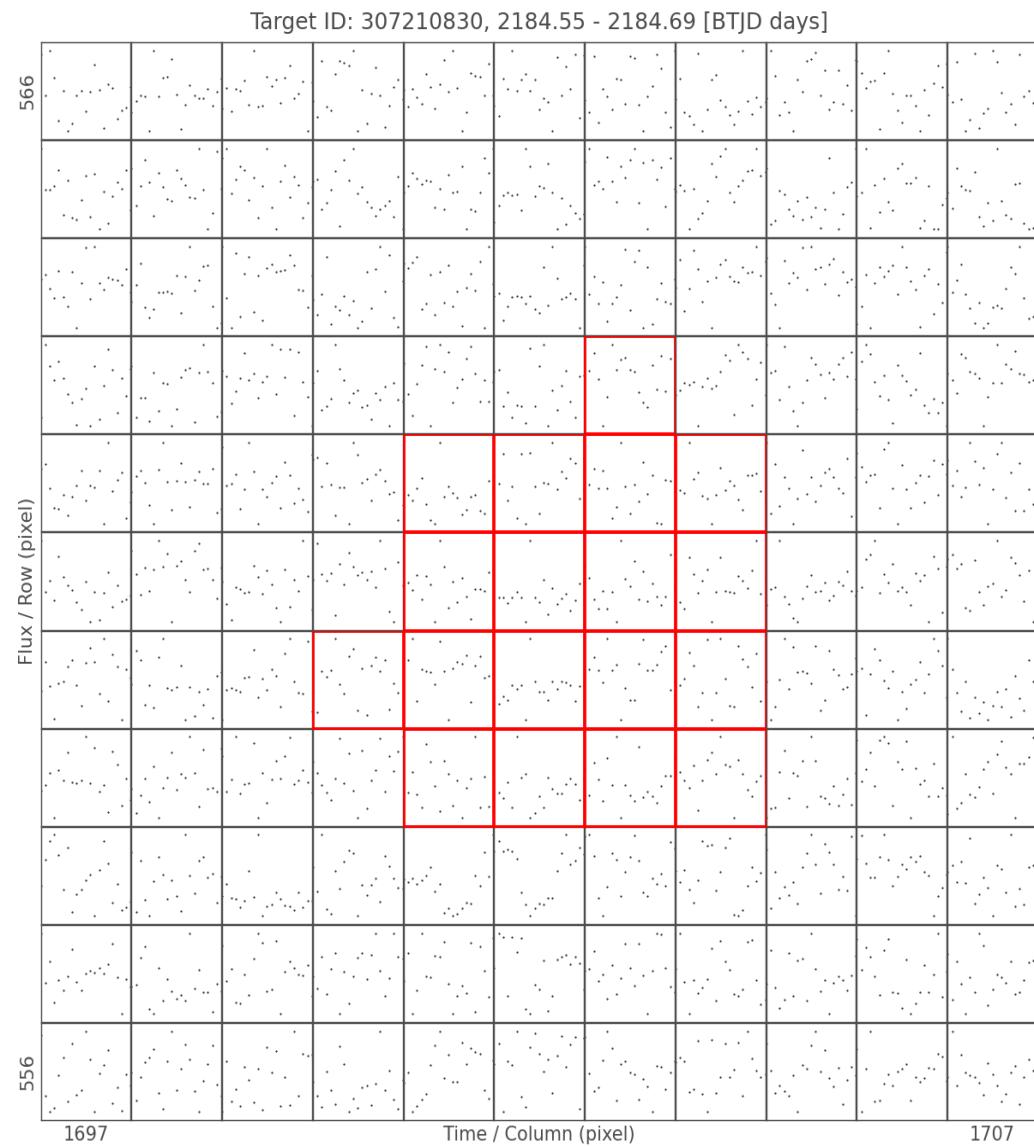
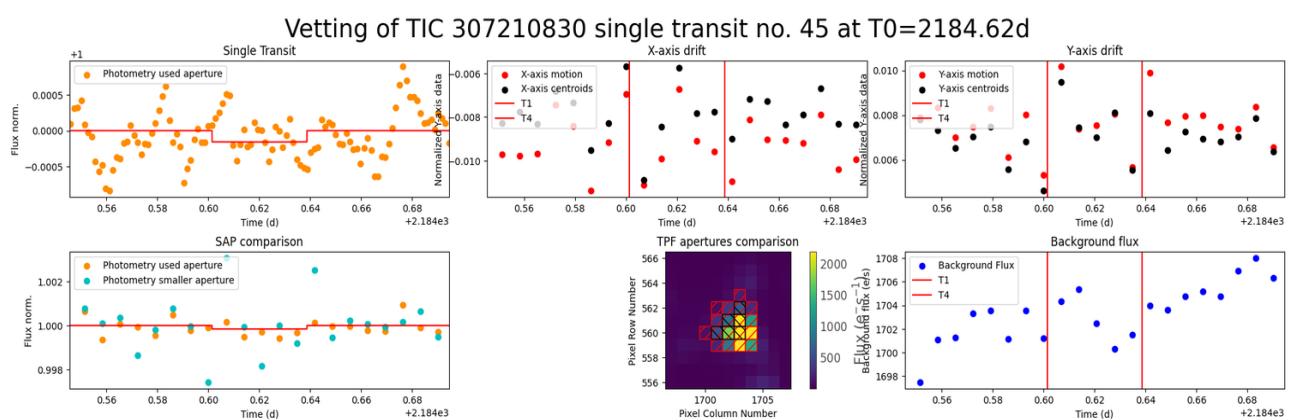


**Figure 57:** The single transit no. 44 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:51

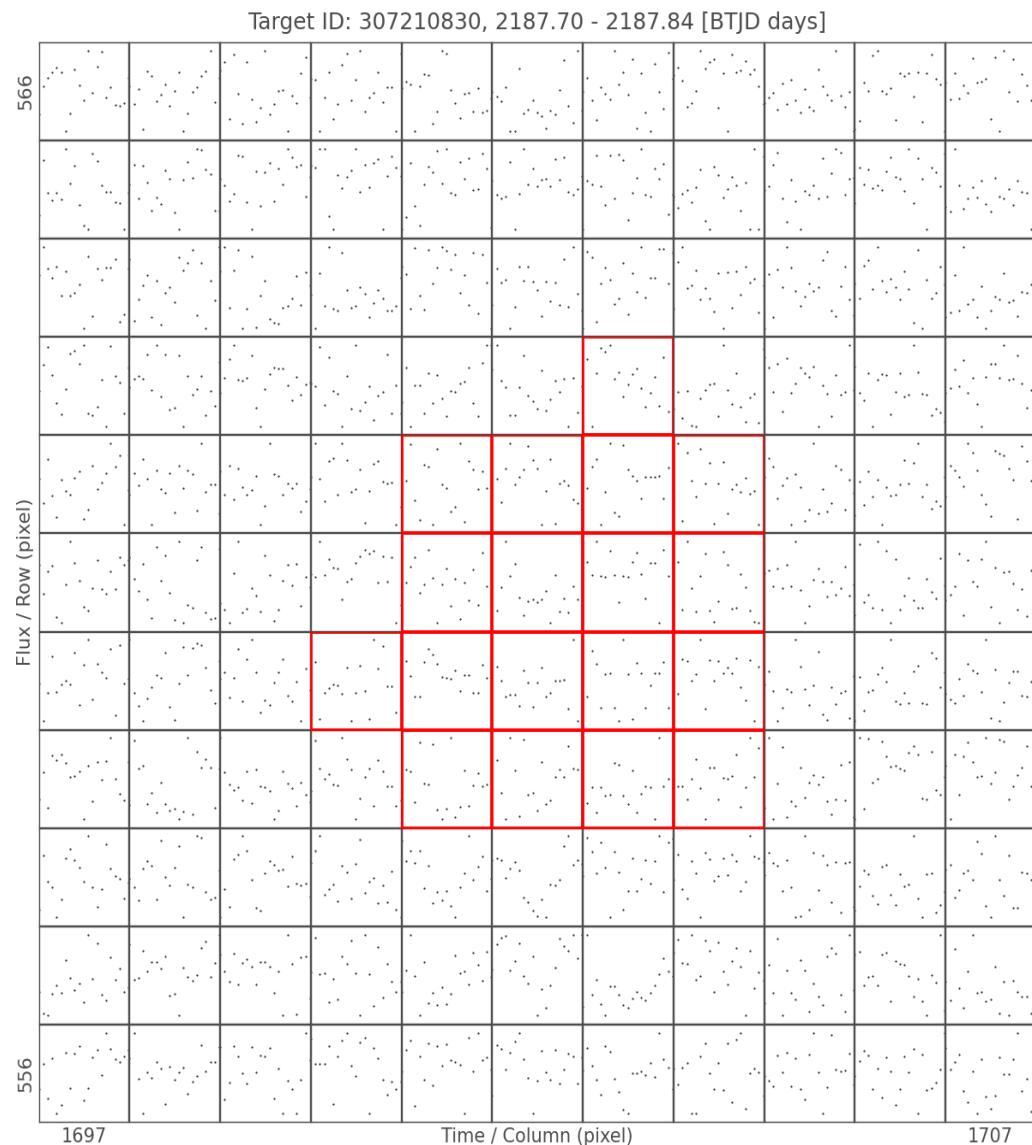
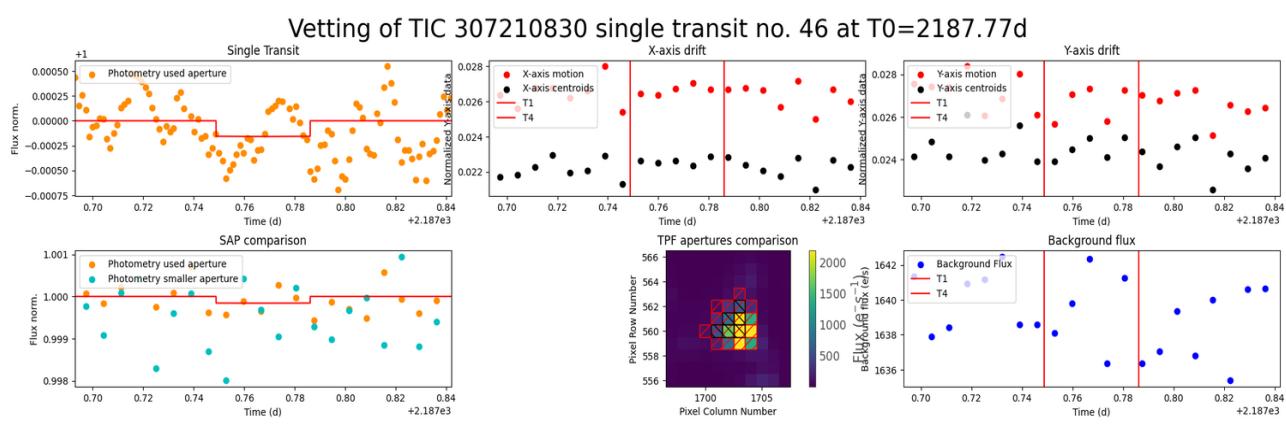


**Figure 58:** The single transit no. 45 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:51

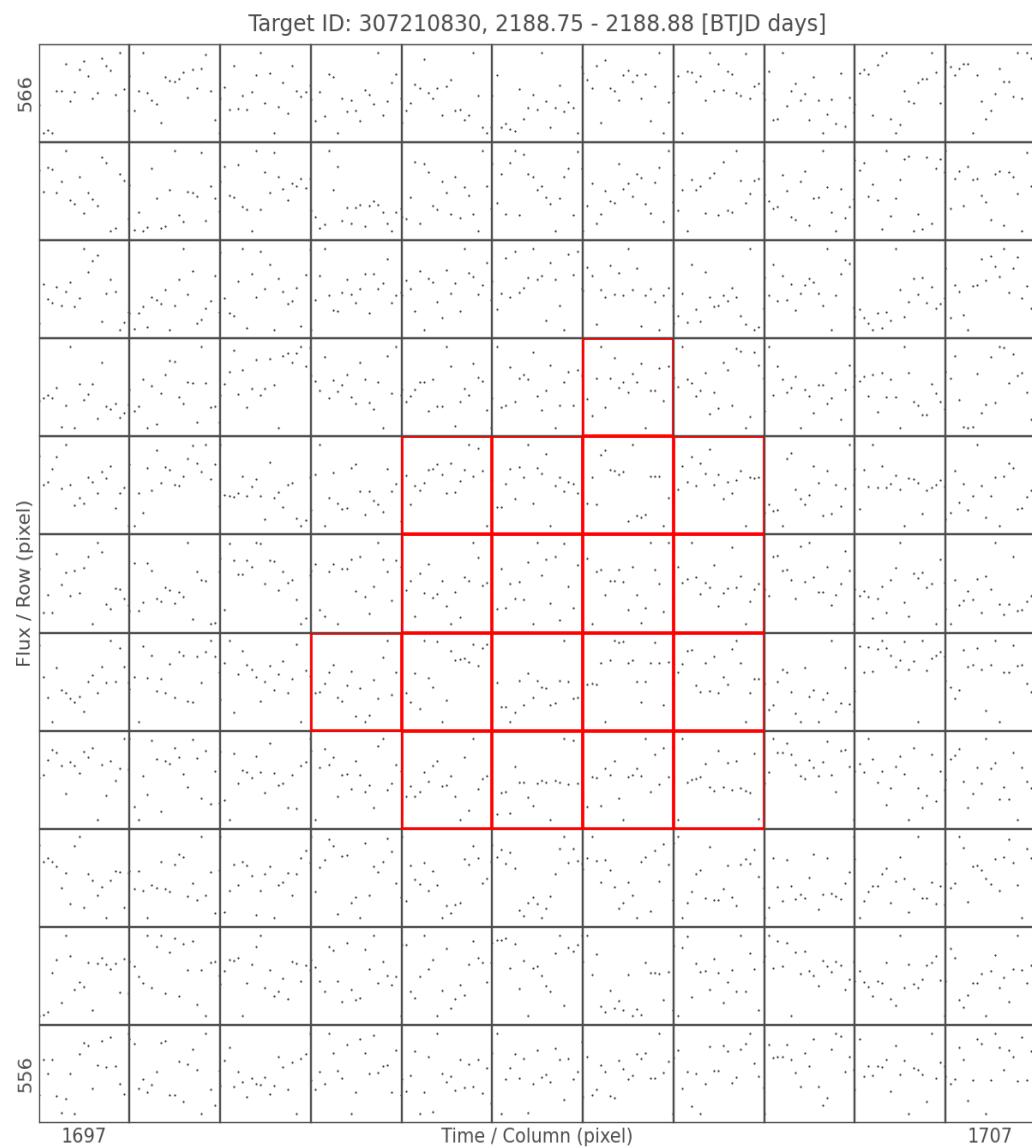
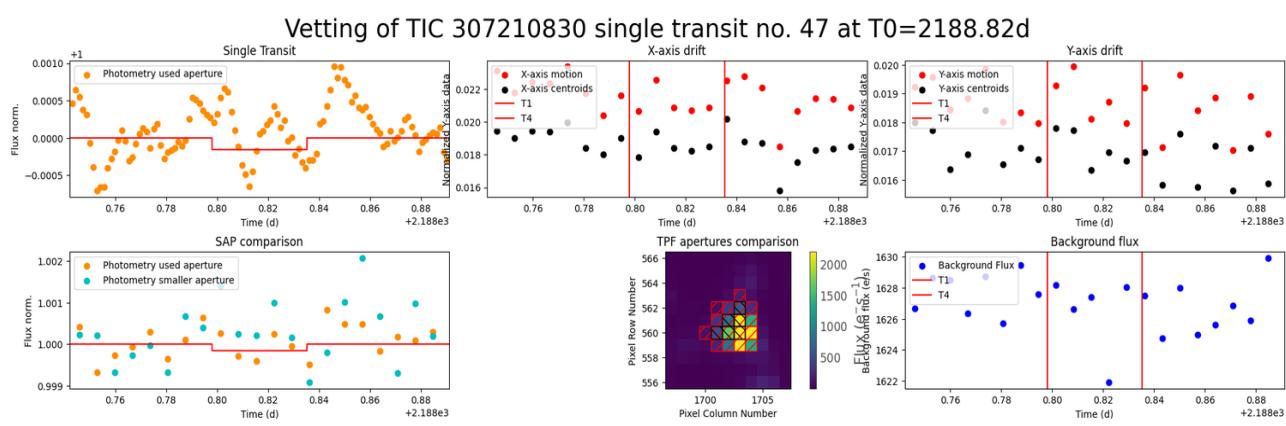


**Figure 59:** The single transit no. 46 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:51

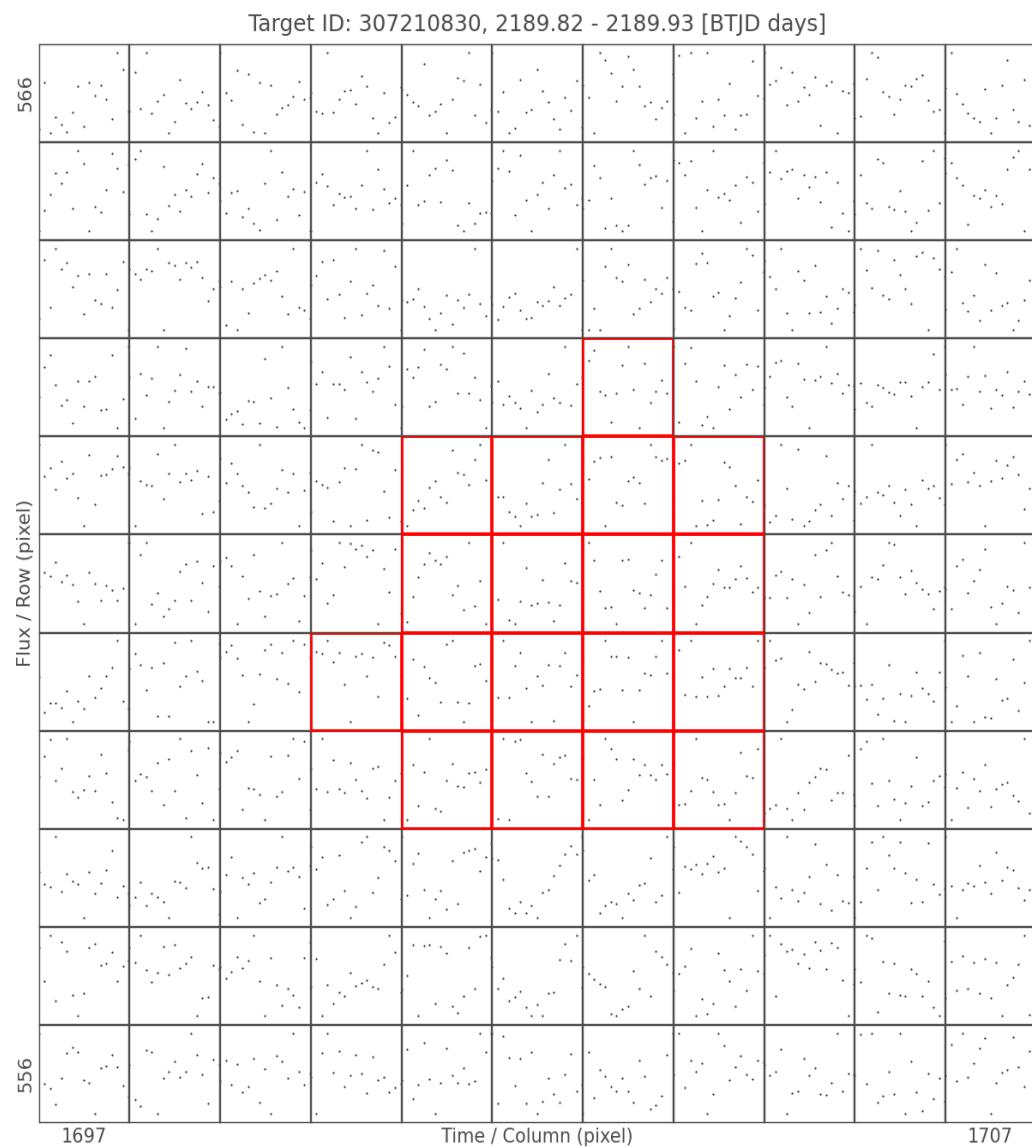
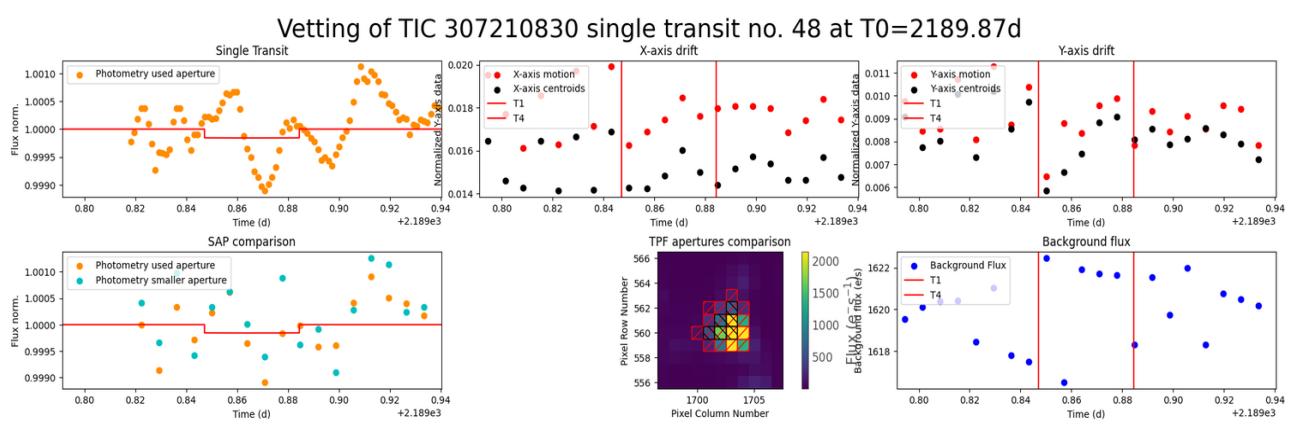


**Figure 60:** The single transit no. 47 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52

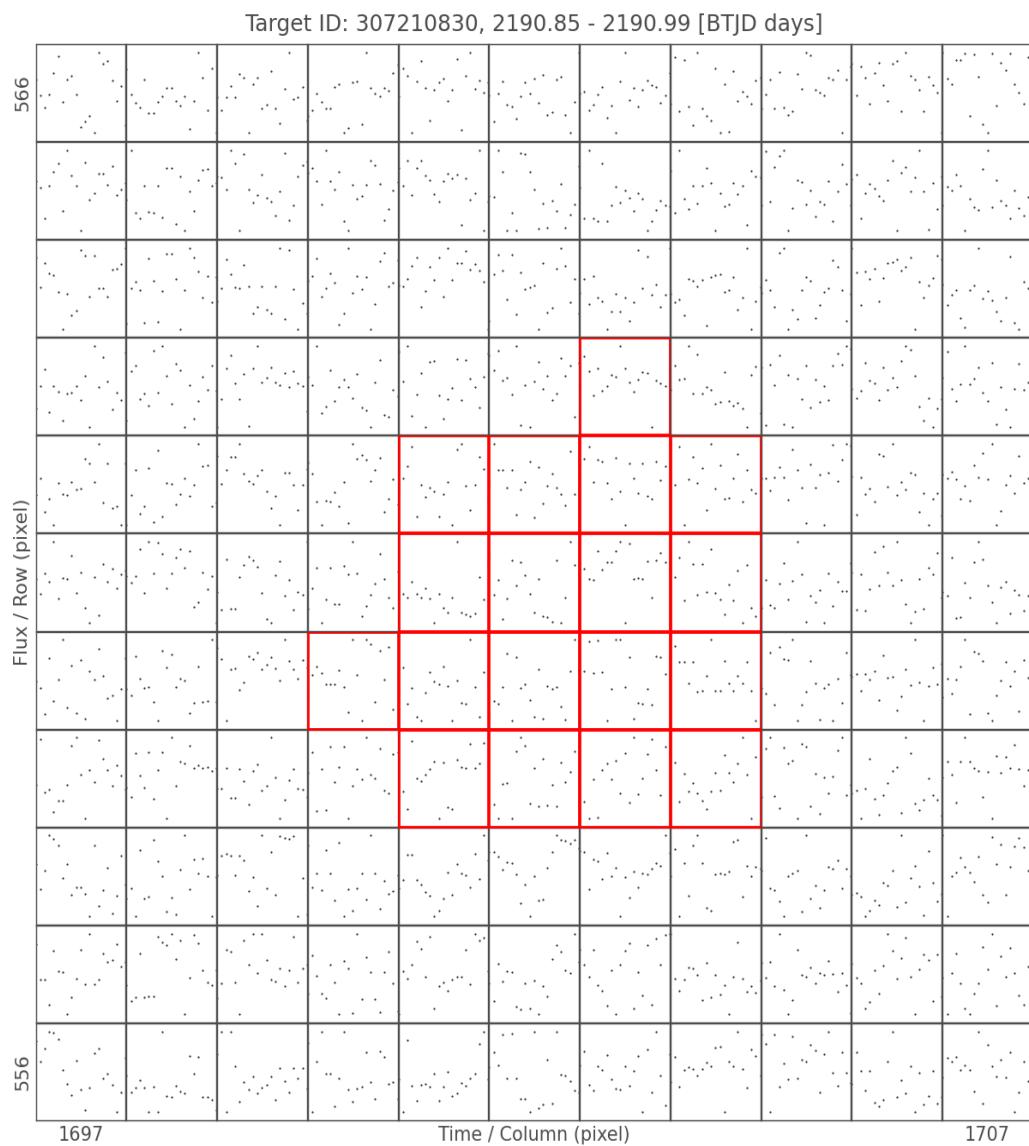
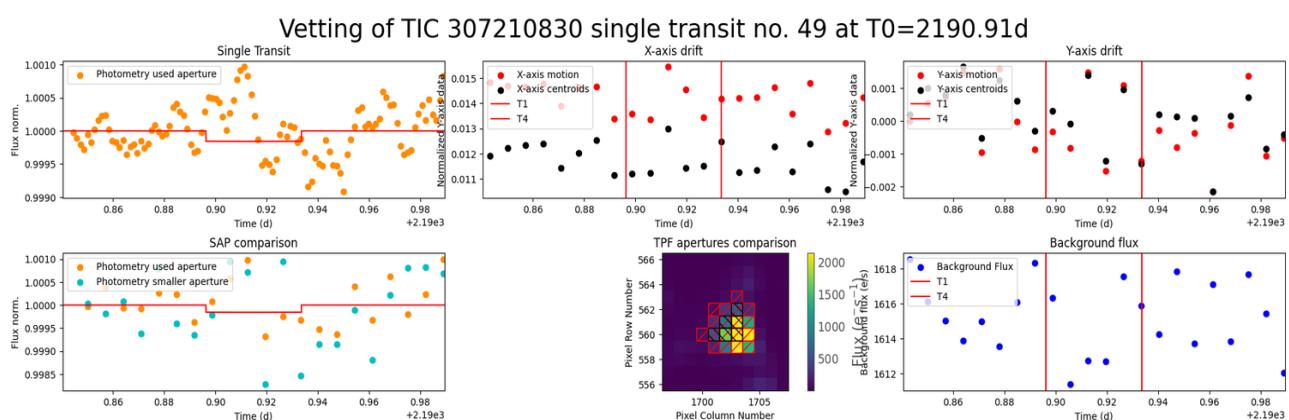


**Figure 61:** The single transit no. 48 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52

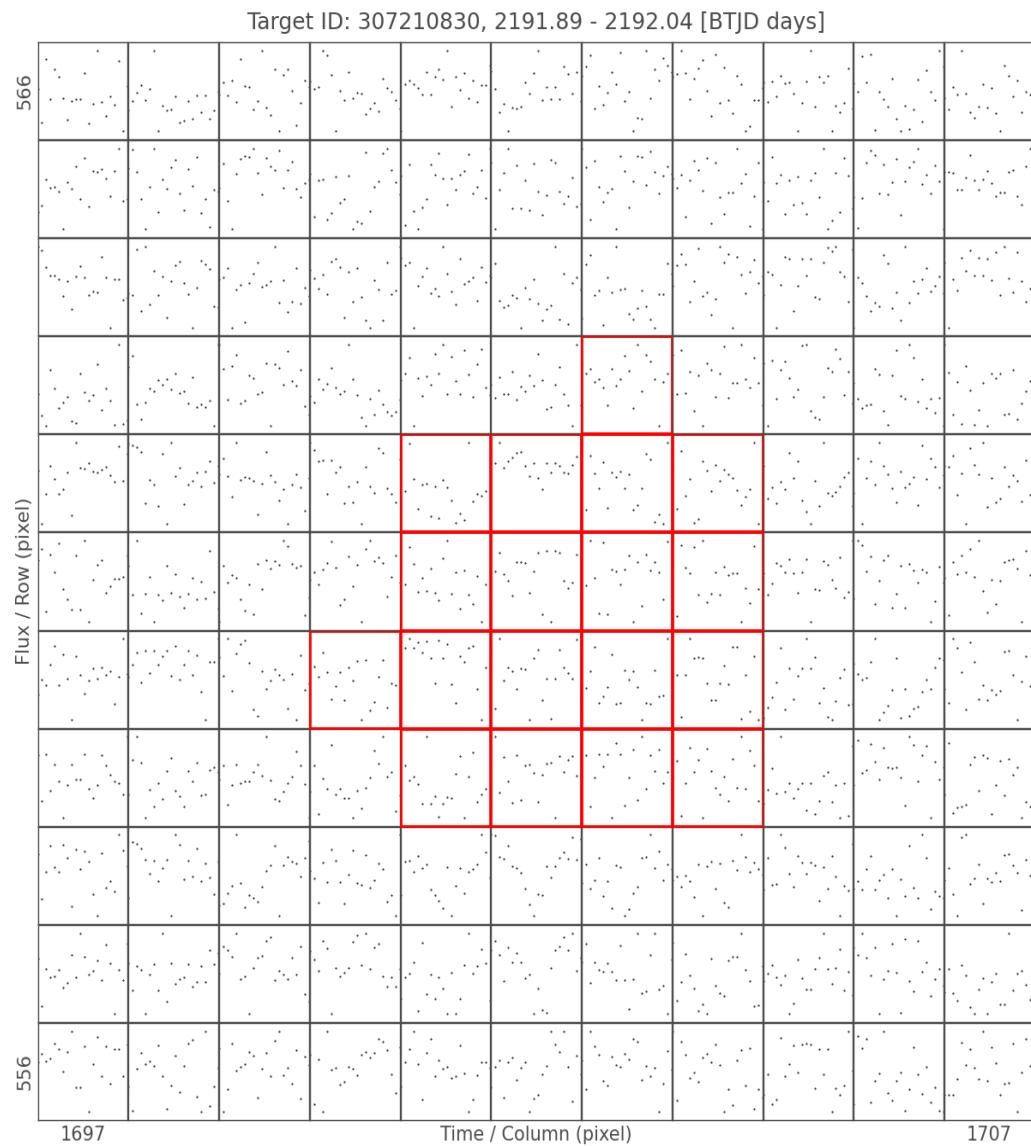
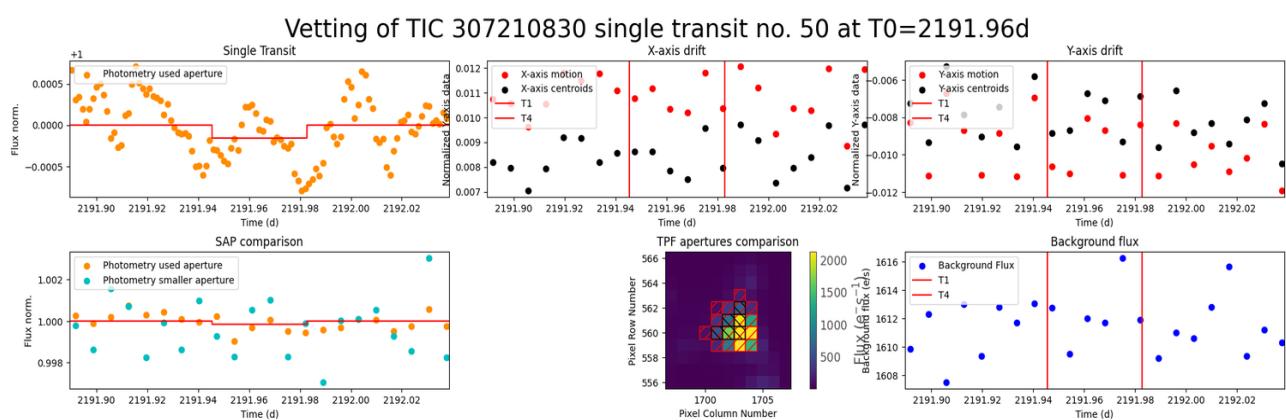


**Figure 62:** The single transit no. 49 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52

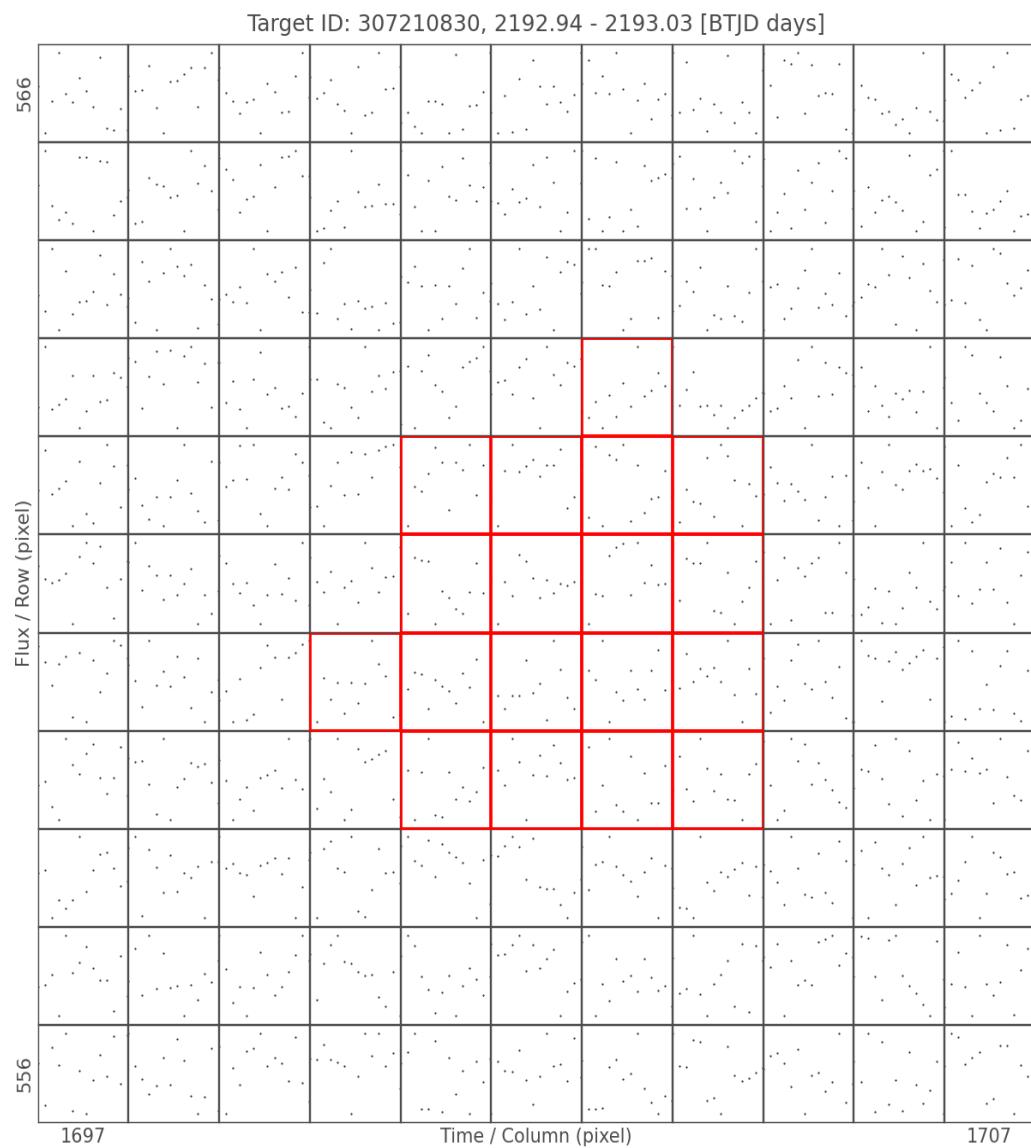
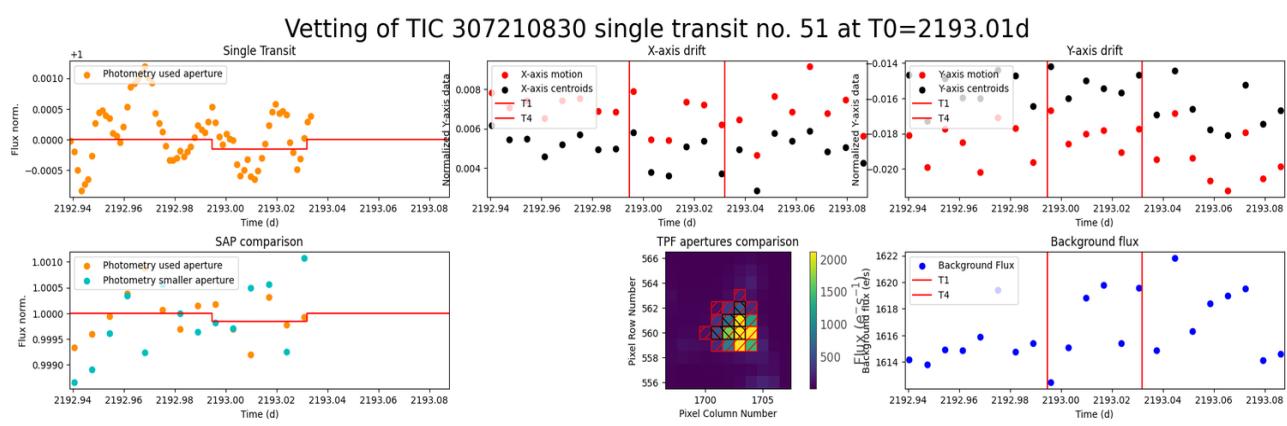


**Figure 63:** The single transit no. 50 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52

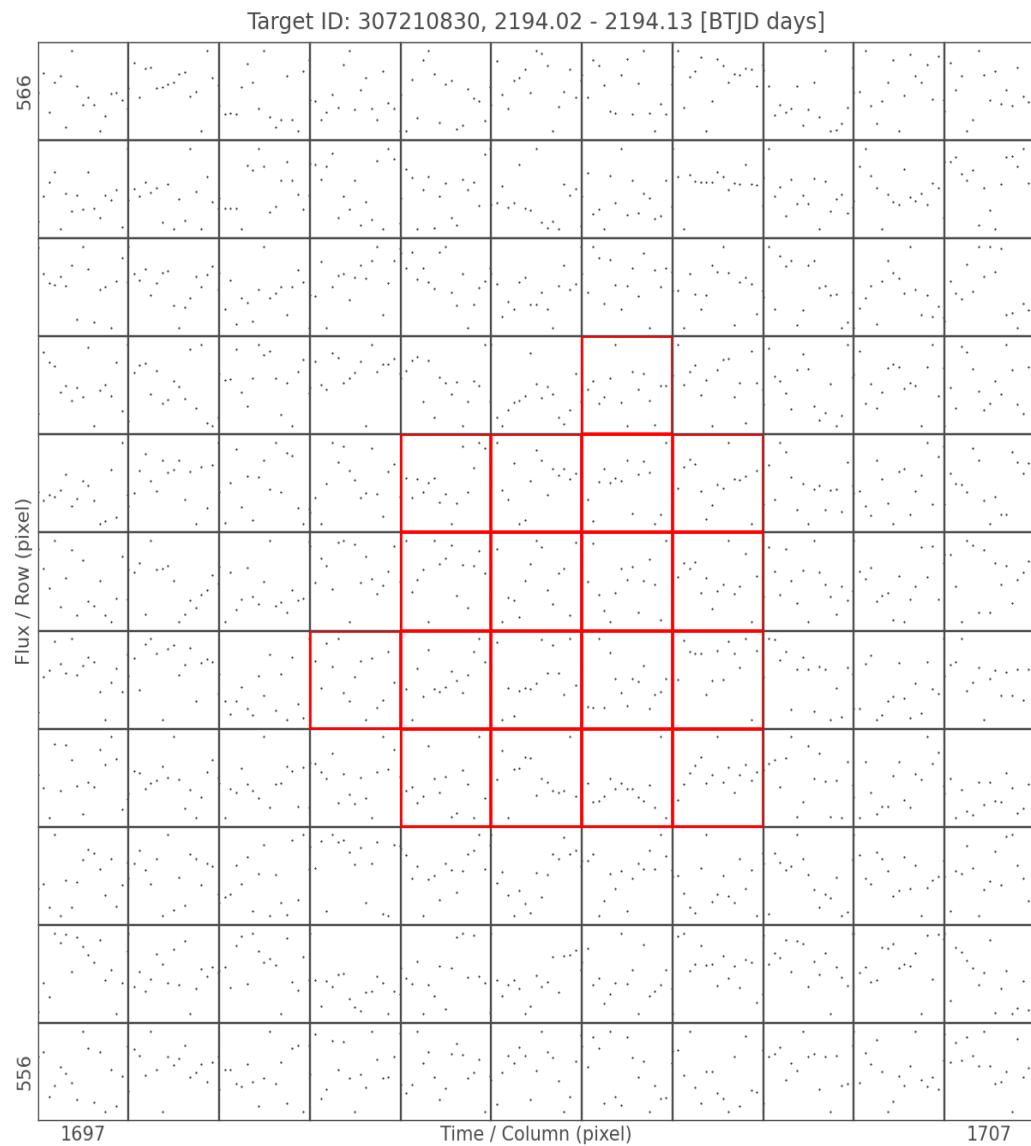
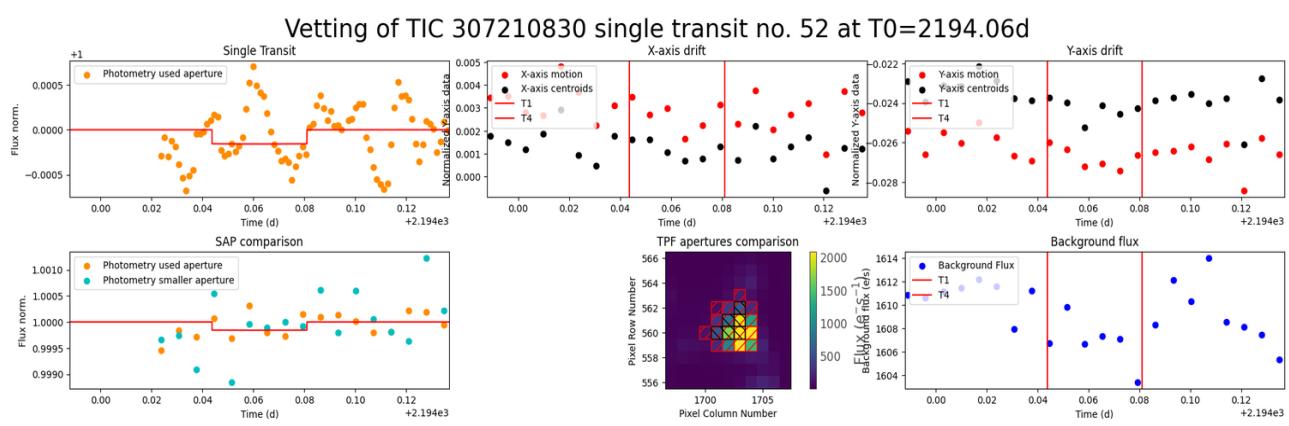


**Figure 64:** The single transit no. 51 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52

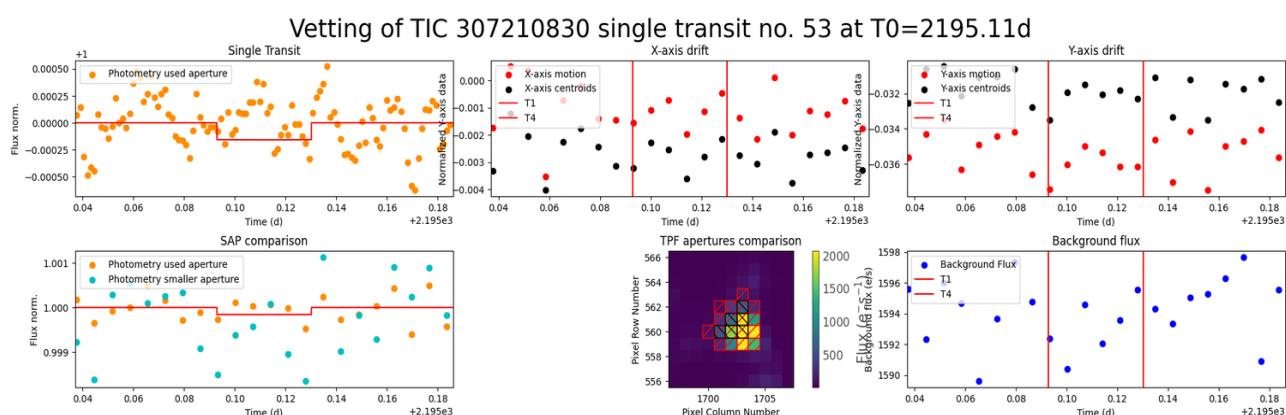


**Figure 65:** The single transit no. 52 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:52



Target ID: 307210830, 2195.04 - 2195.18 [BJD days]

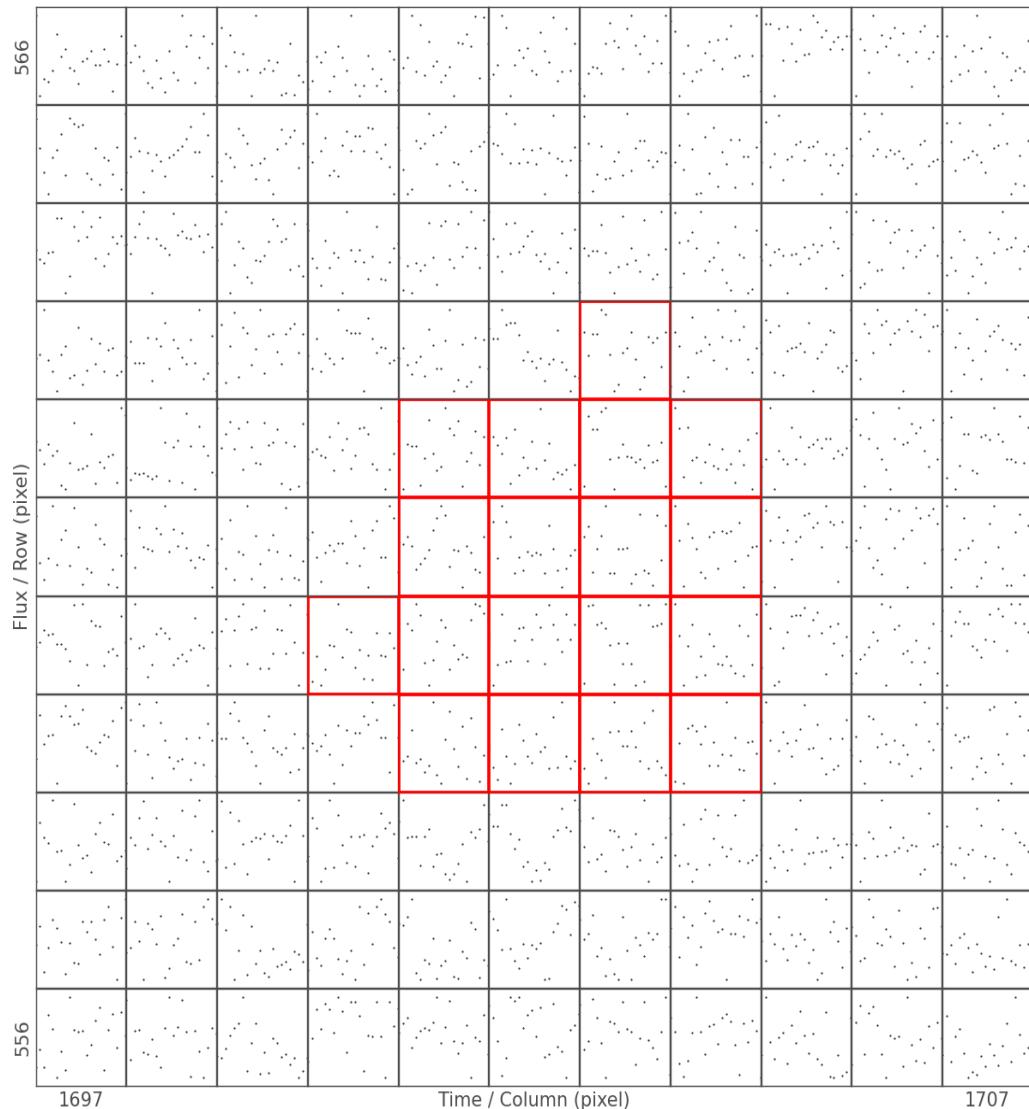
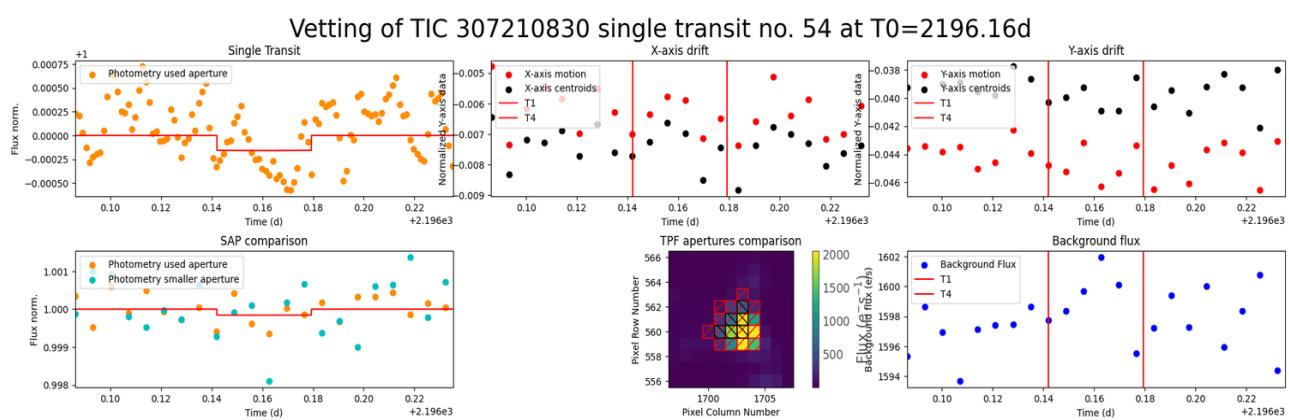


Figure 66: The single transit no. 53 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:53



Target ID: 307210830, 2196.09 - 2196.23 [BJD days]

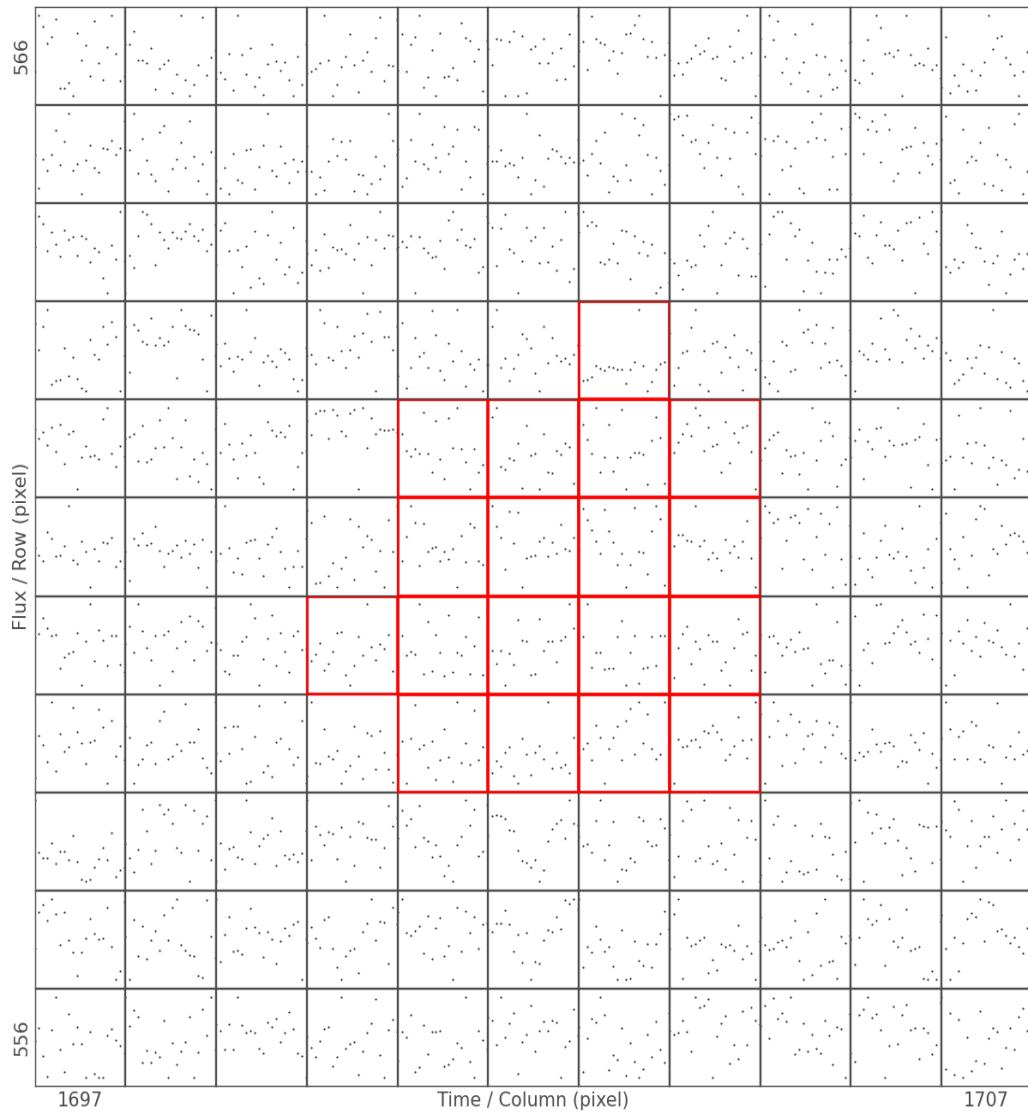
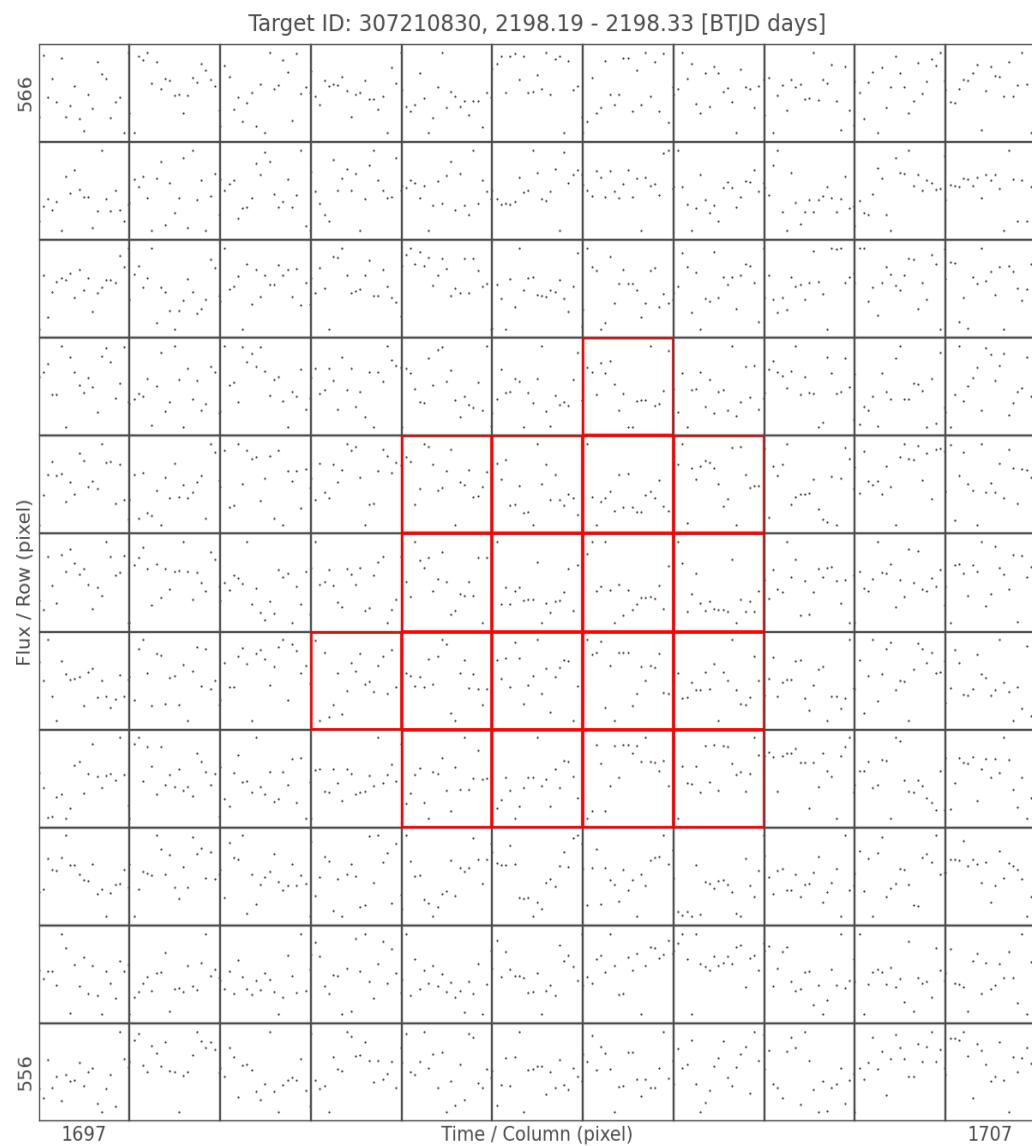
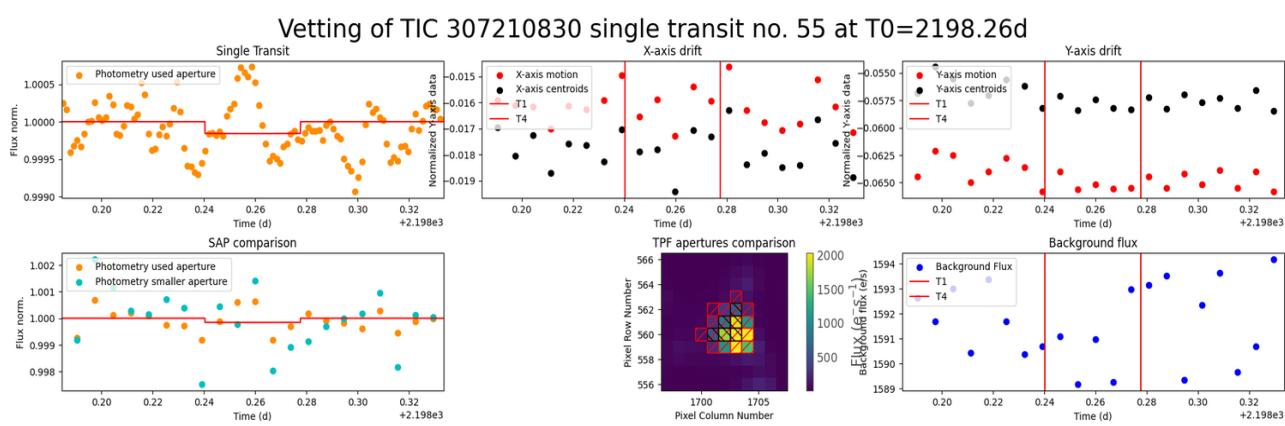


Figure 67: The single transit no. 54 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:53

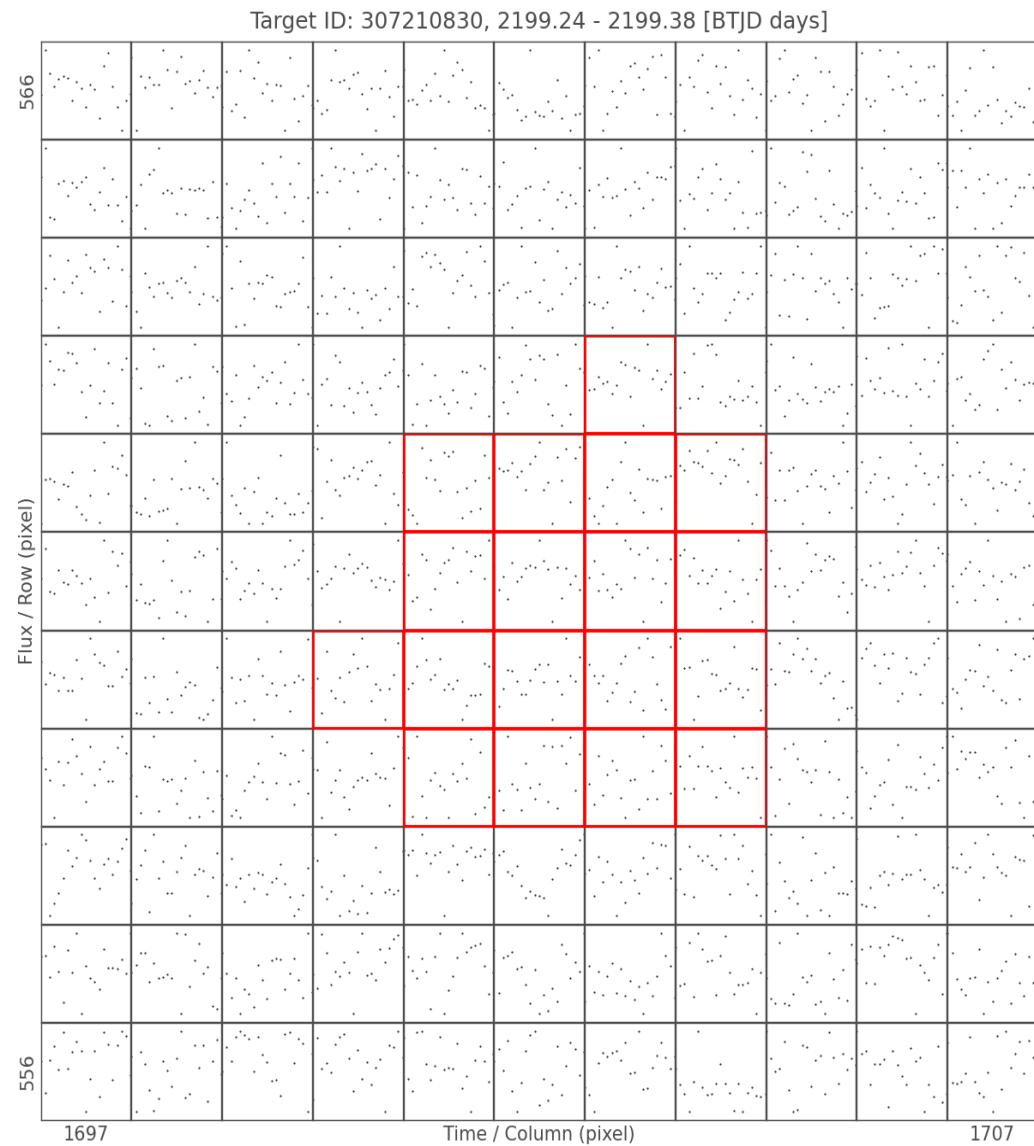
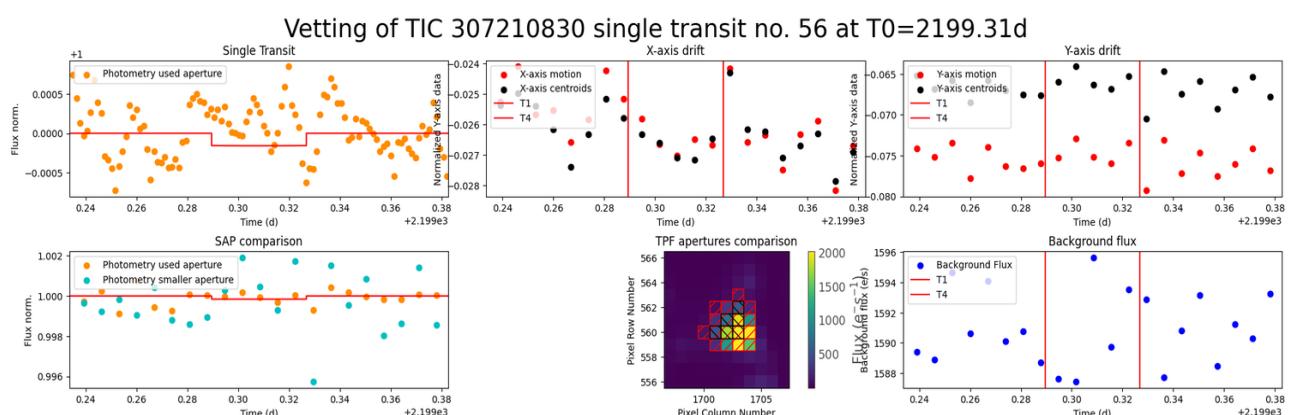


**Figure 68:** The single transit no. 55 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:53

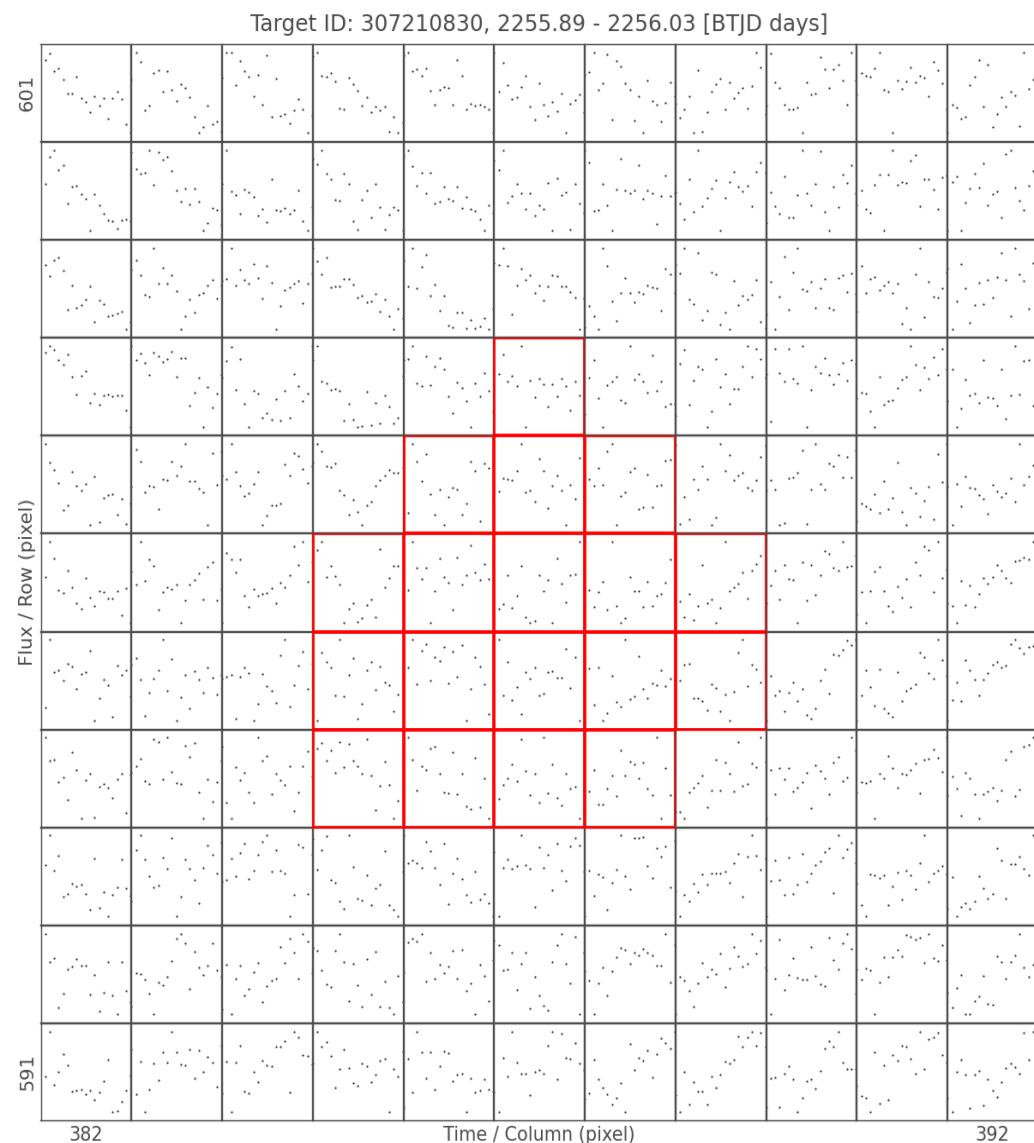
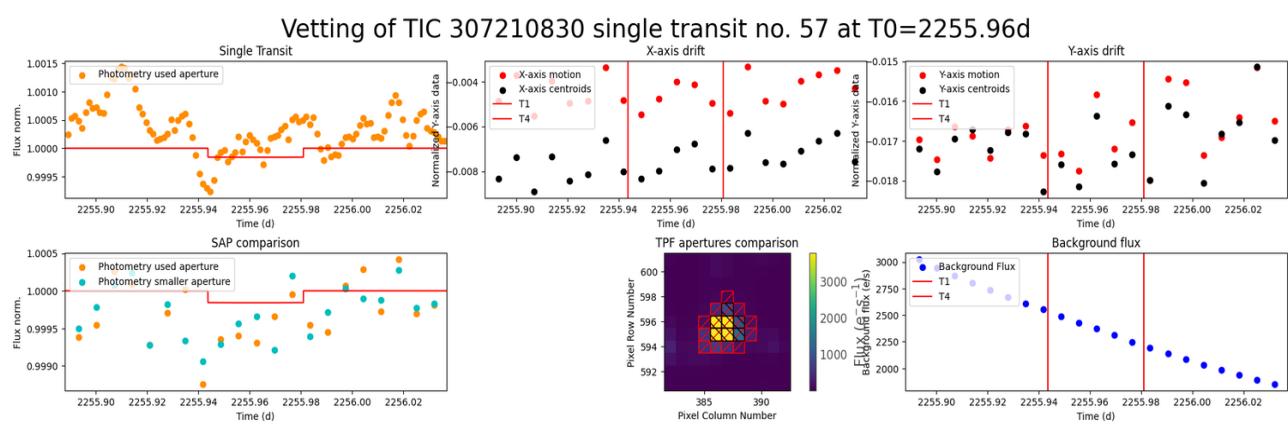


**Figure 69:** The single transit no. 56 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:53

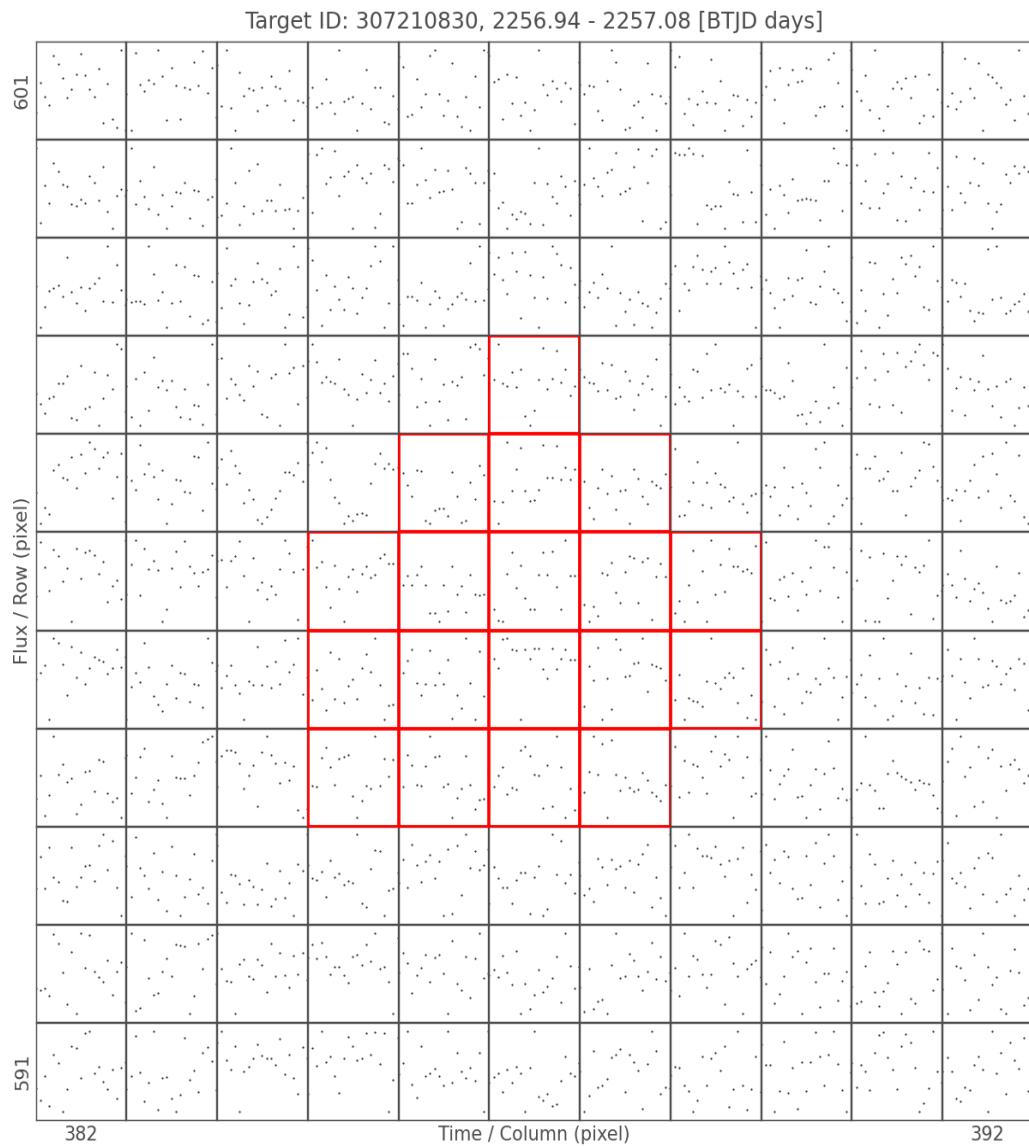
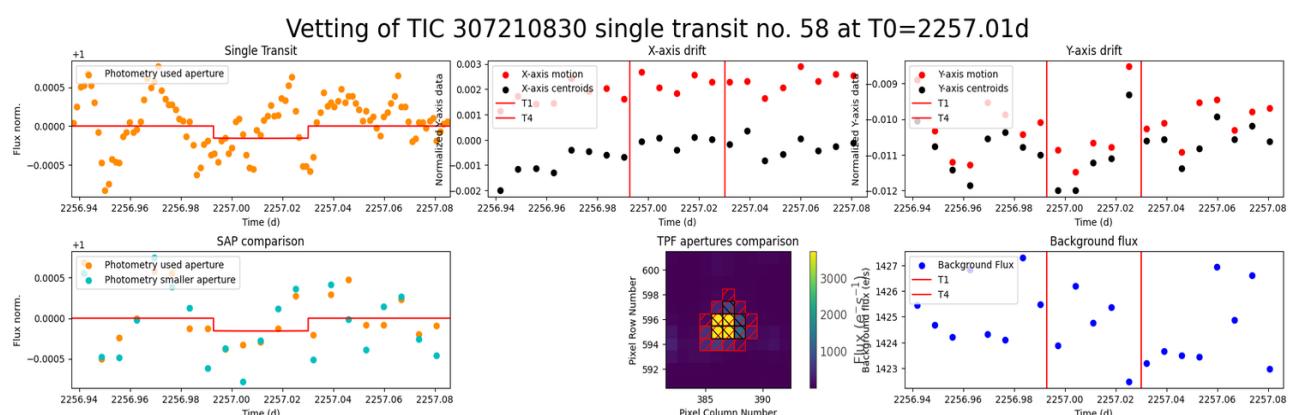


**Figure 70:** The single transit no. 57 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:53

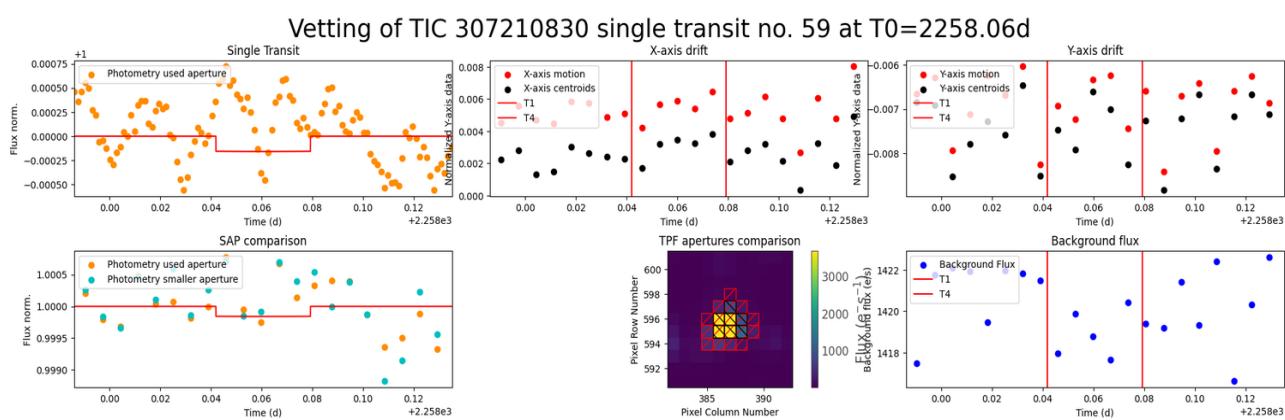


**Figure 71:** The single transit no. 58 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54



Target ID: 307210830, 2257.99 - 2258.13 [BTJD days]

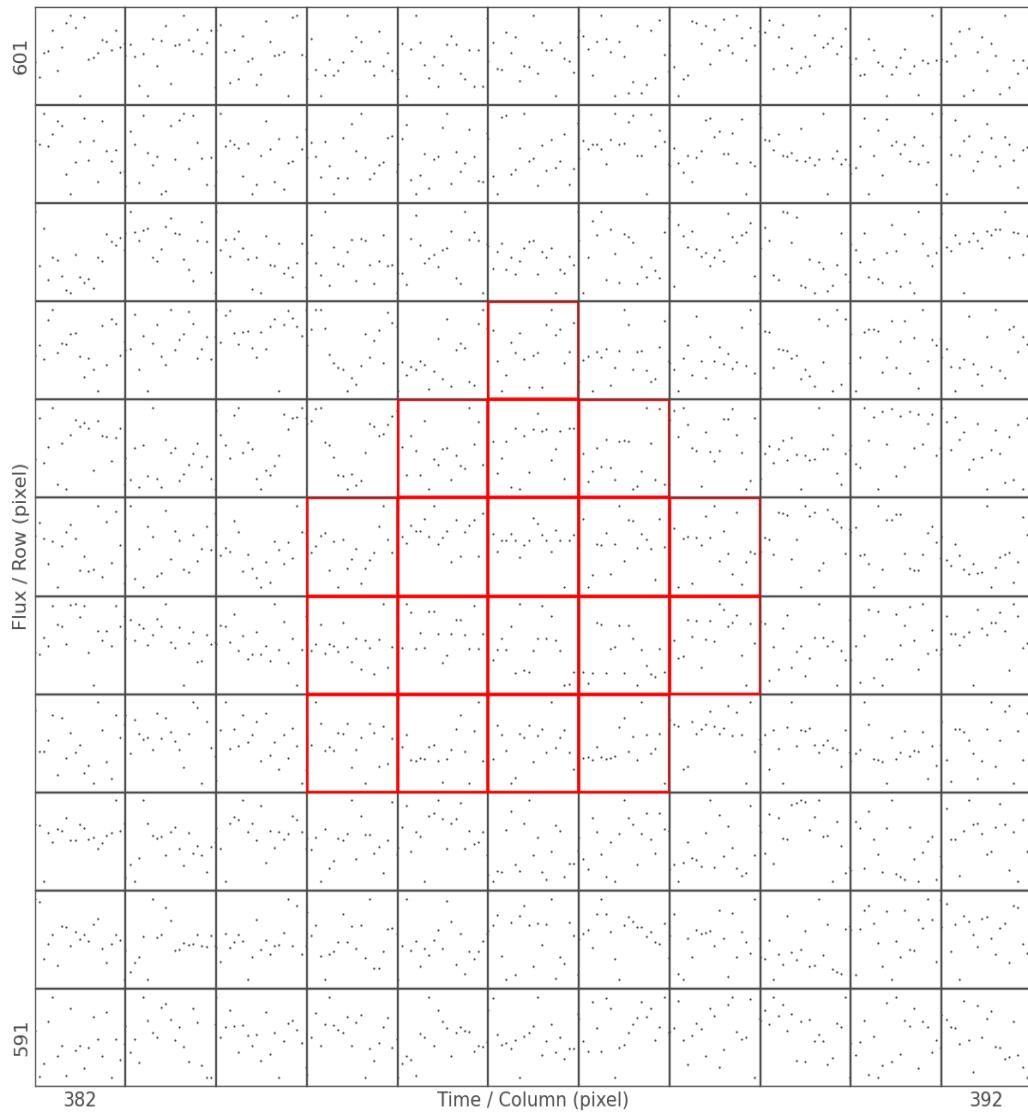
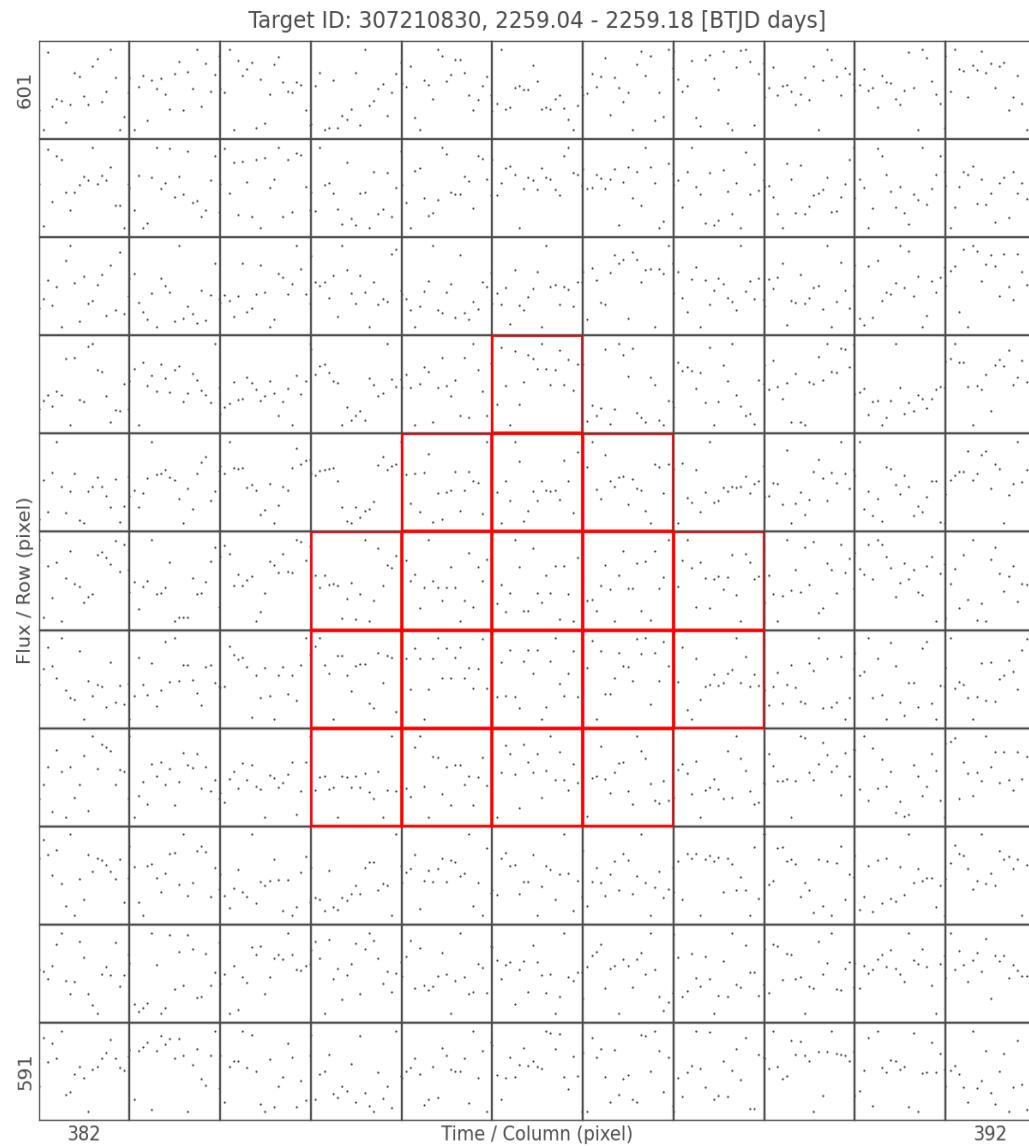
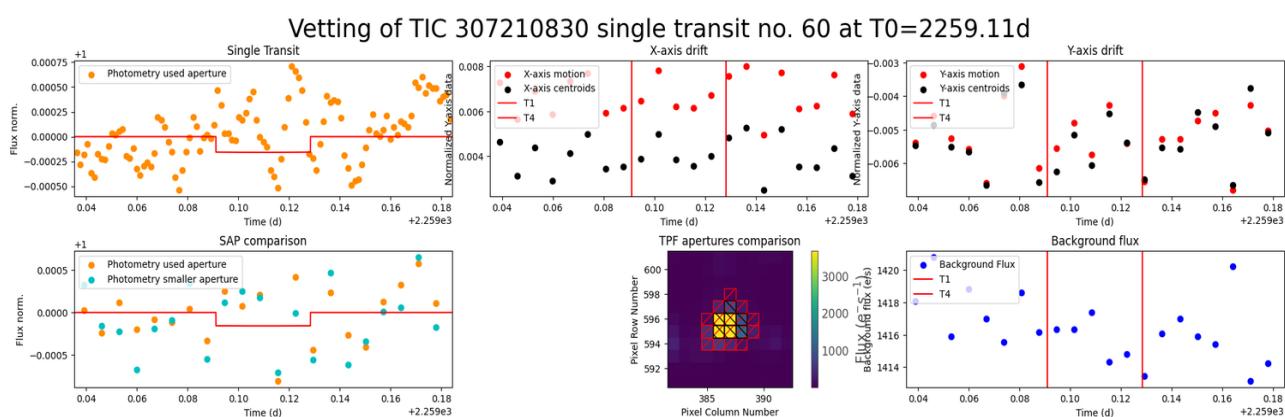


Figure 72: The single transit no. 59 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54



**Figure 73:** The single transit no. 60 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54

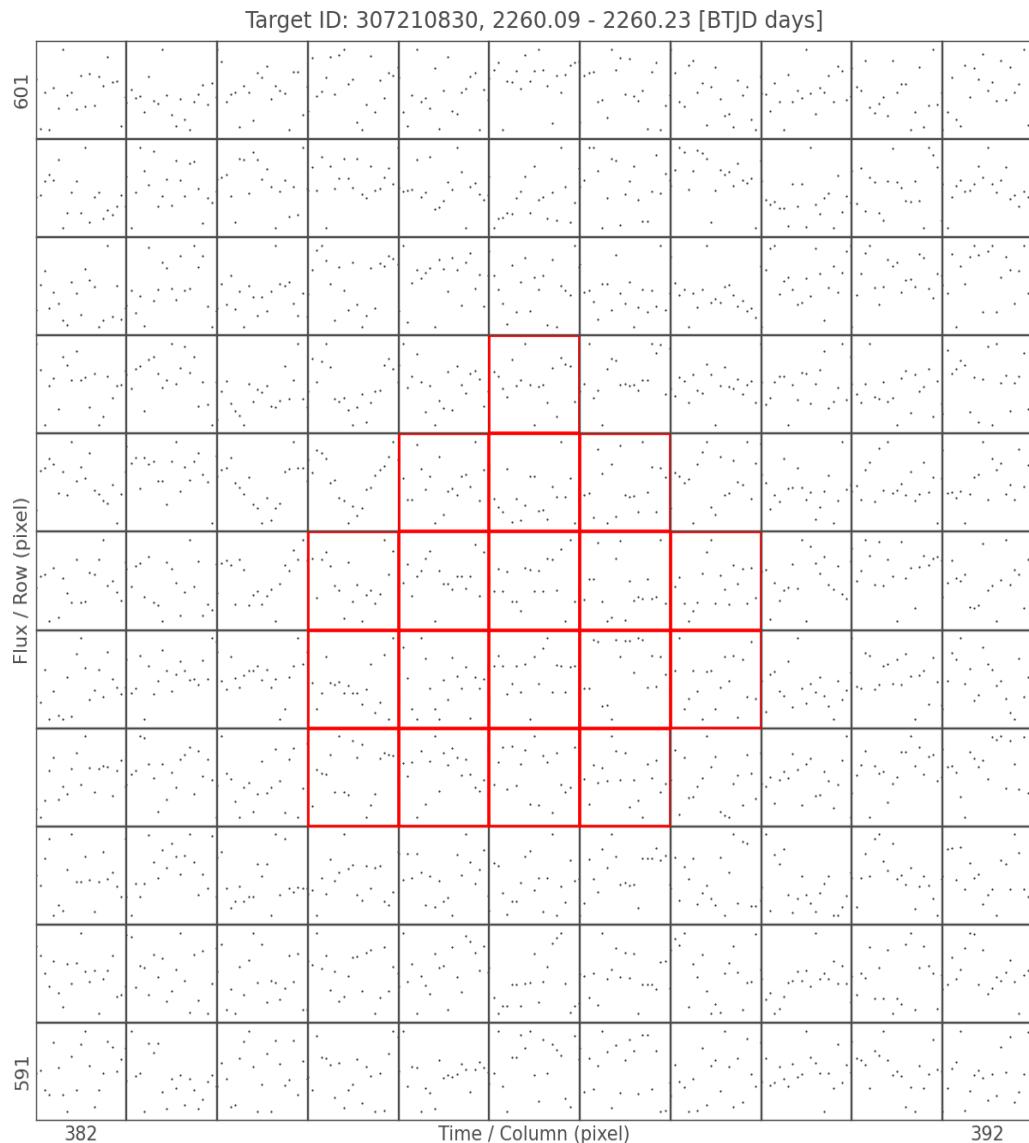
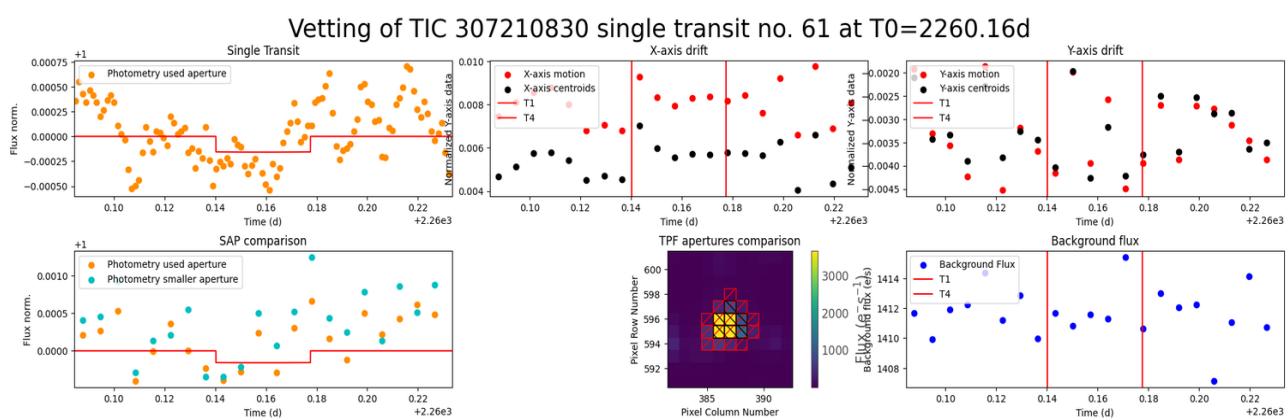
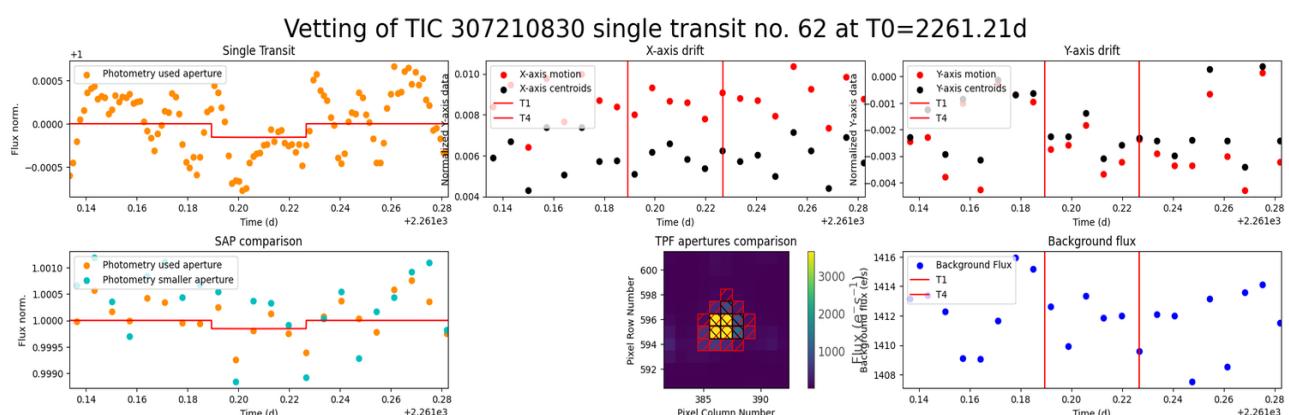


Figure 74: The single transit no. 61 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54



Target ID: 307210830, 2261.14 - 2261.28 [BJD days]

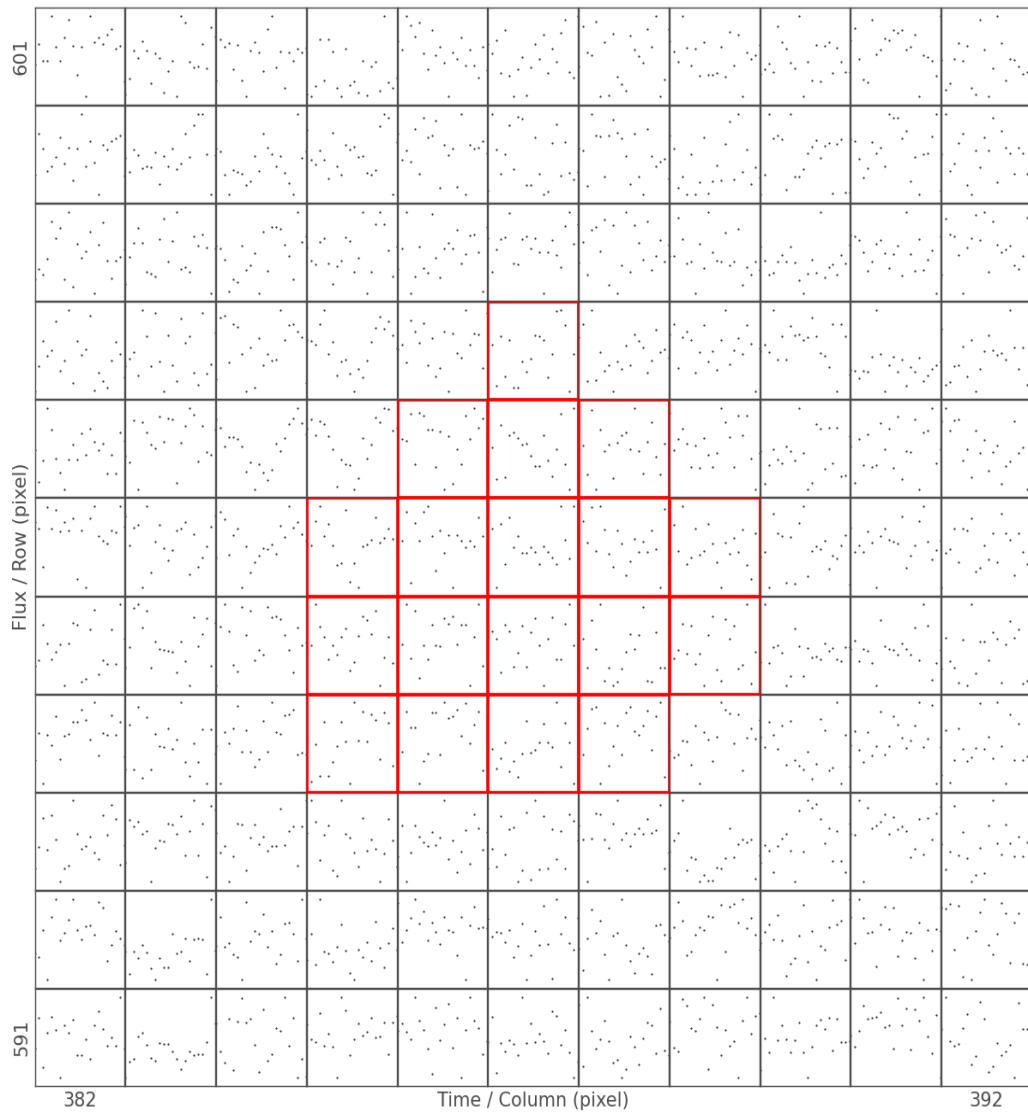
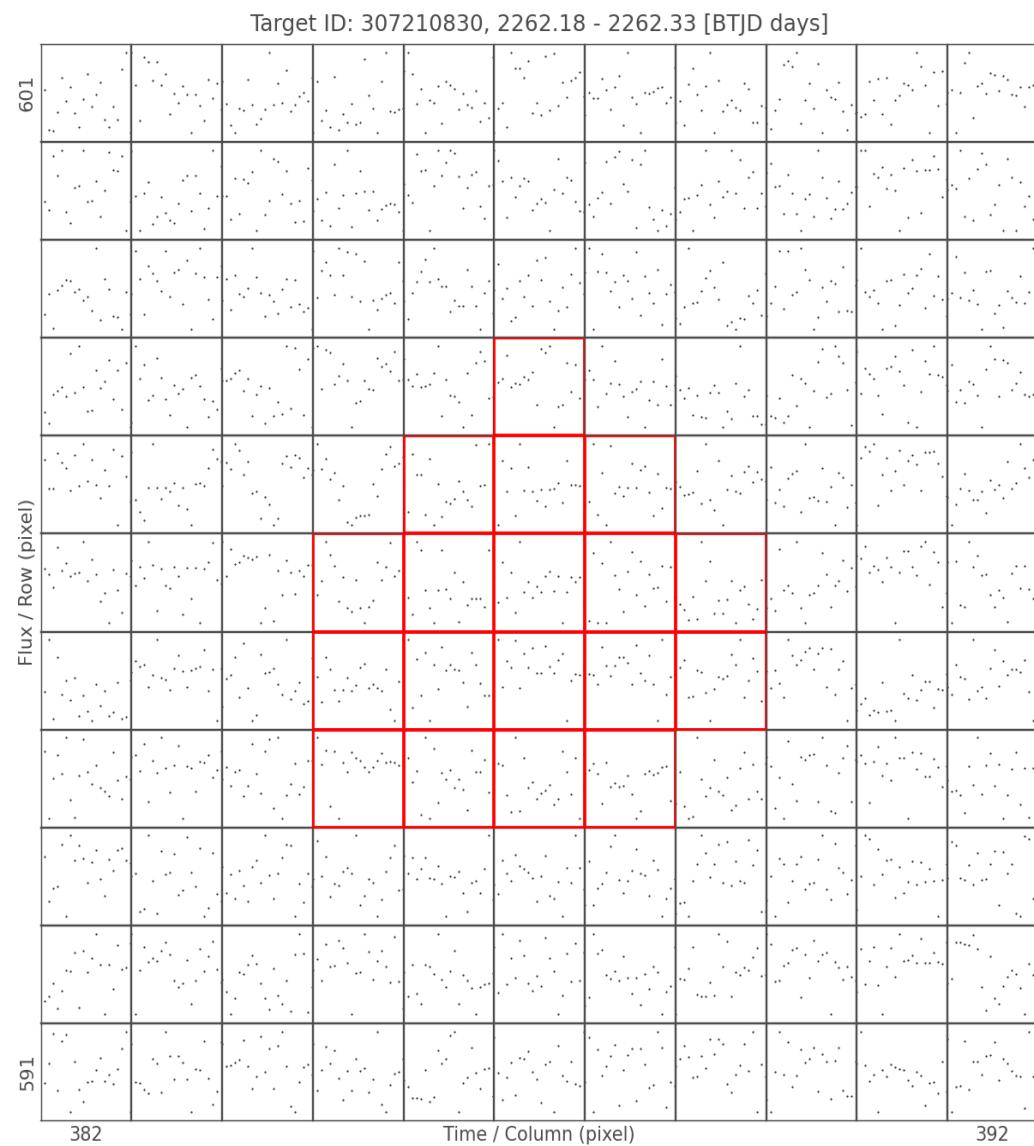
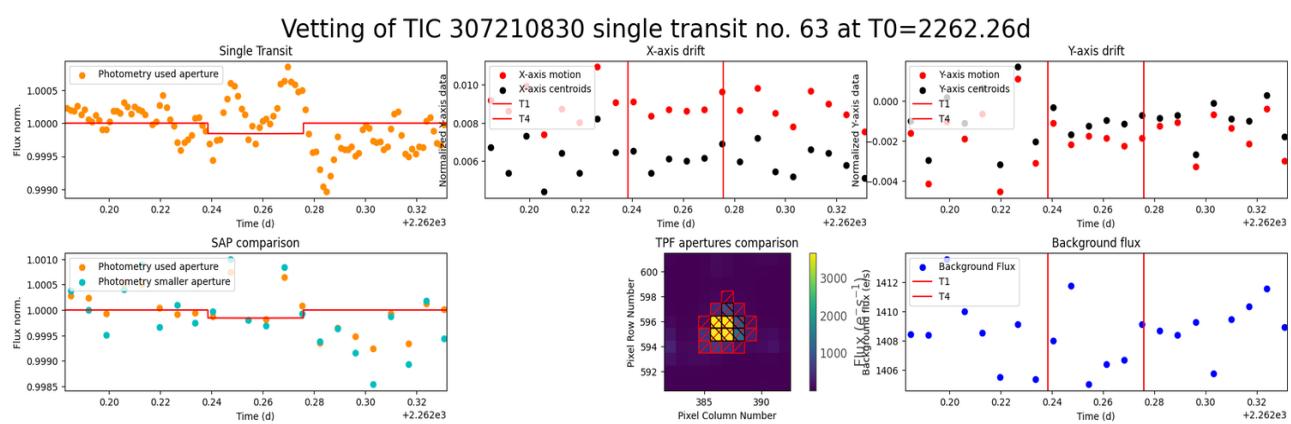


Figure 75: The single transit no. 62 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54

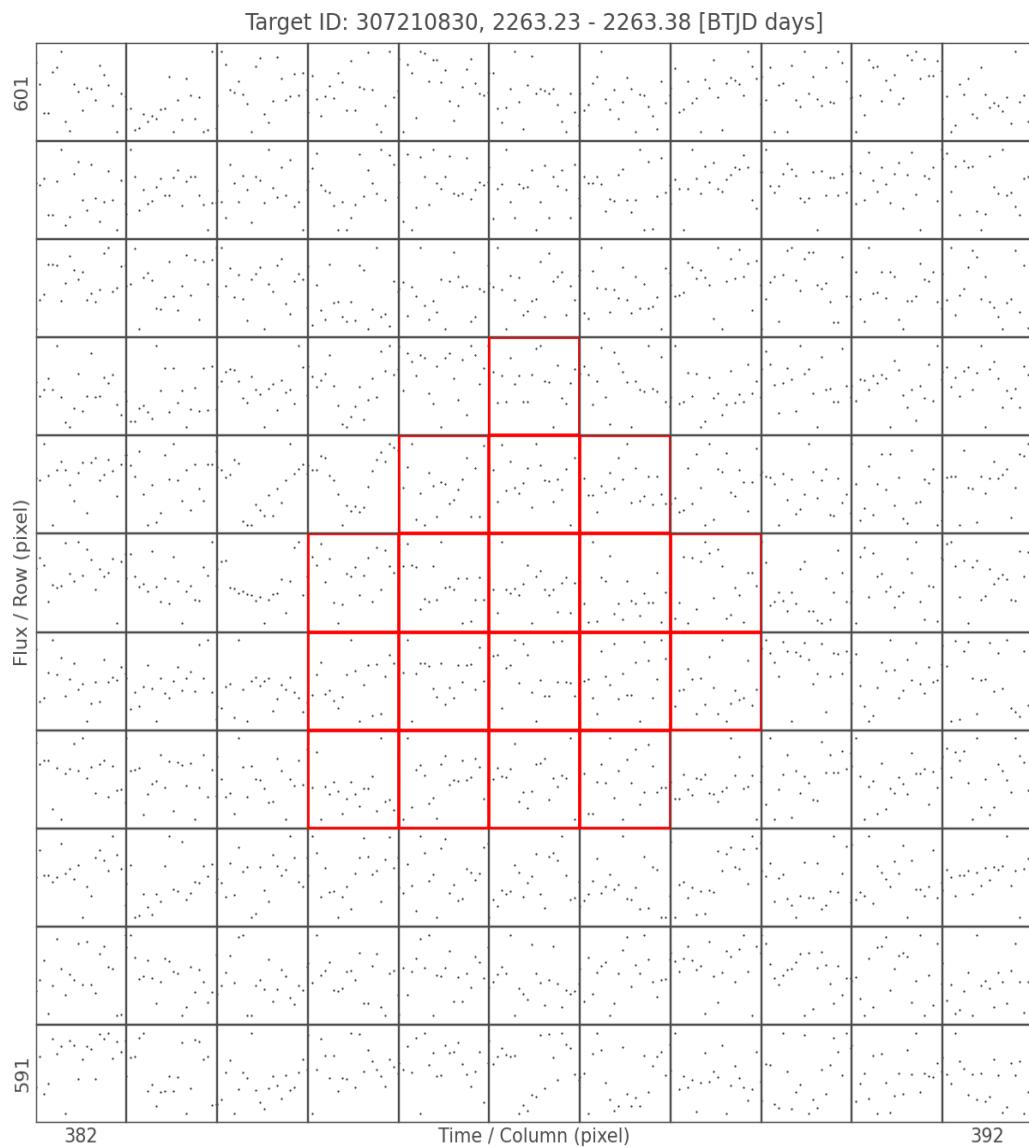
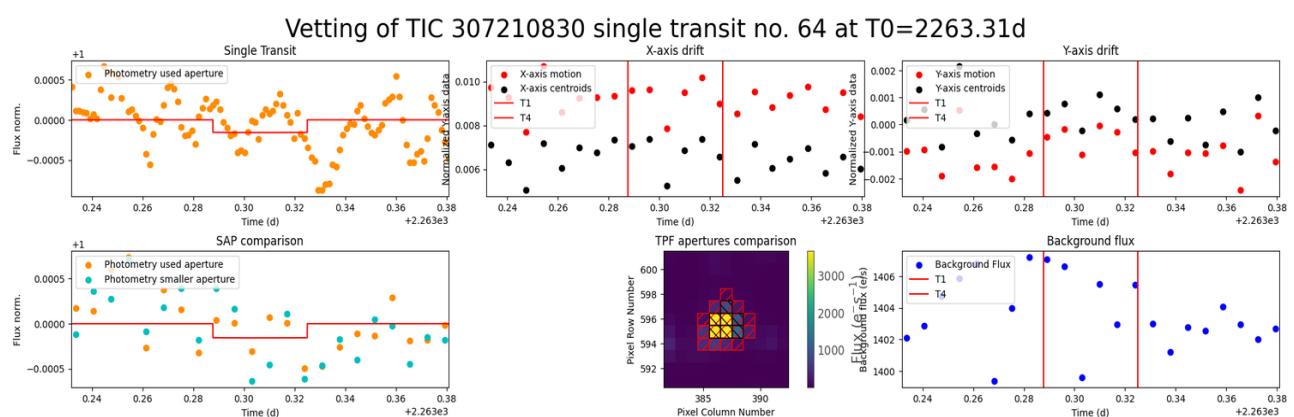


**Figure 76:** The single transit no. 63 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:54

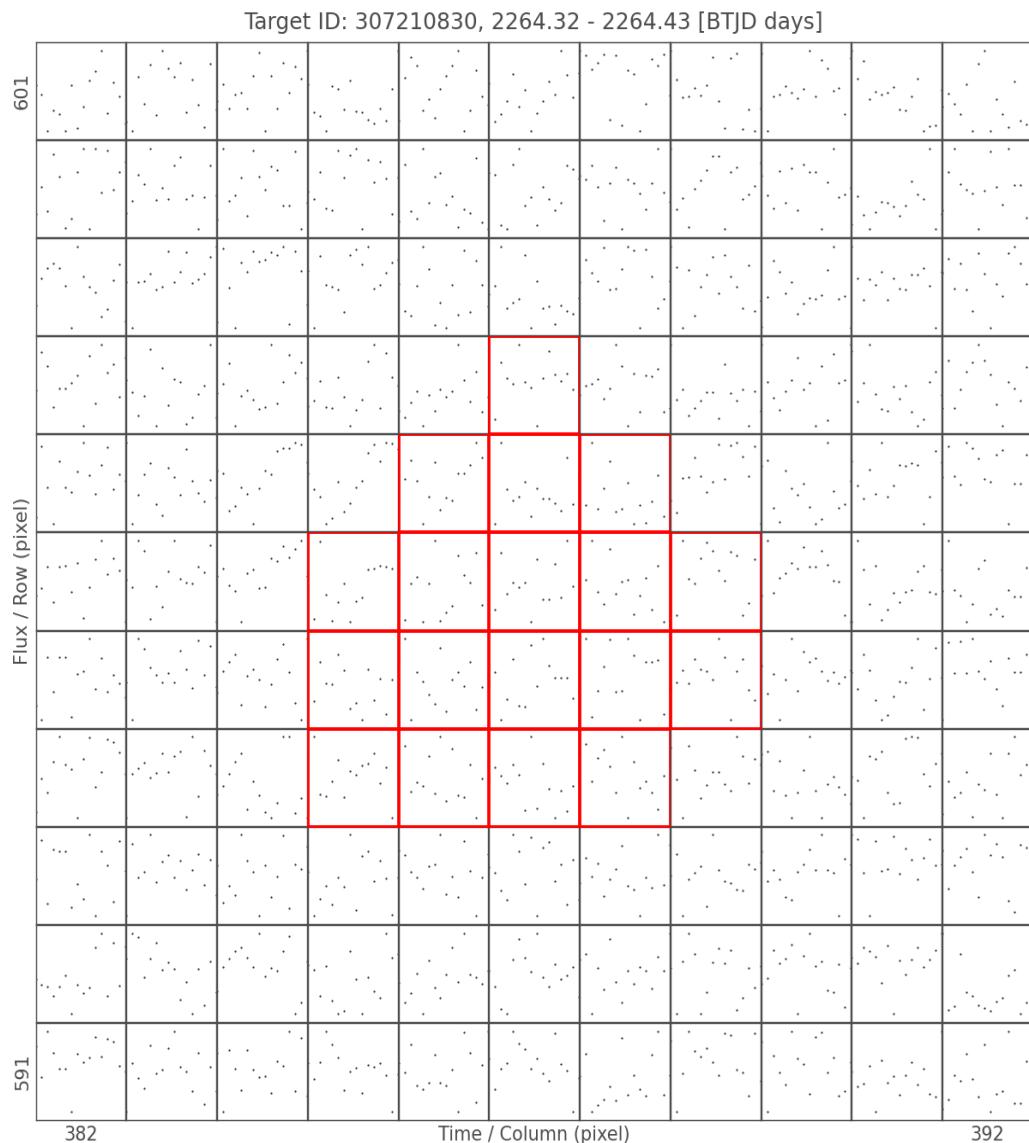
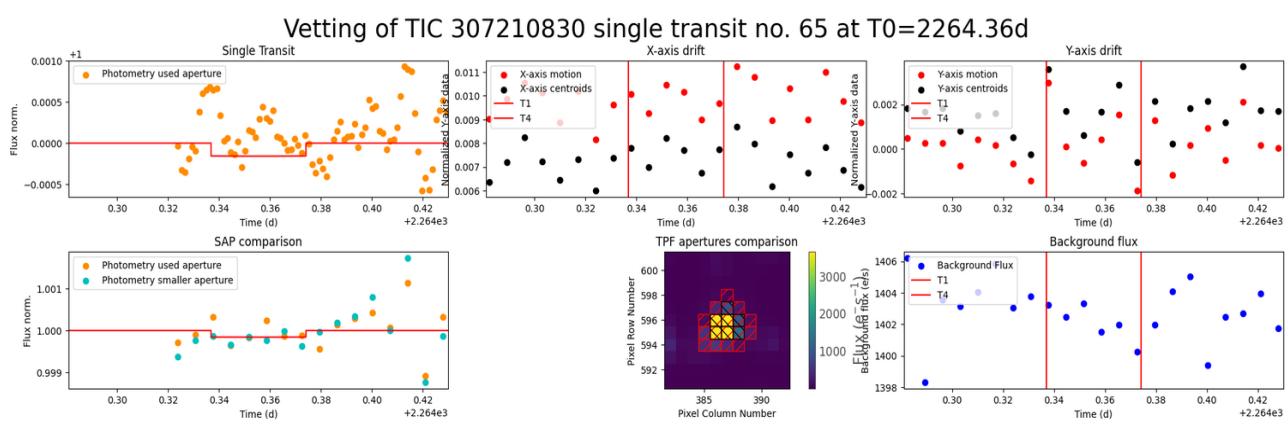


**Figure 77:** The single transit no. 64 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:55

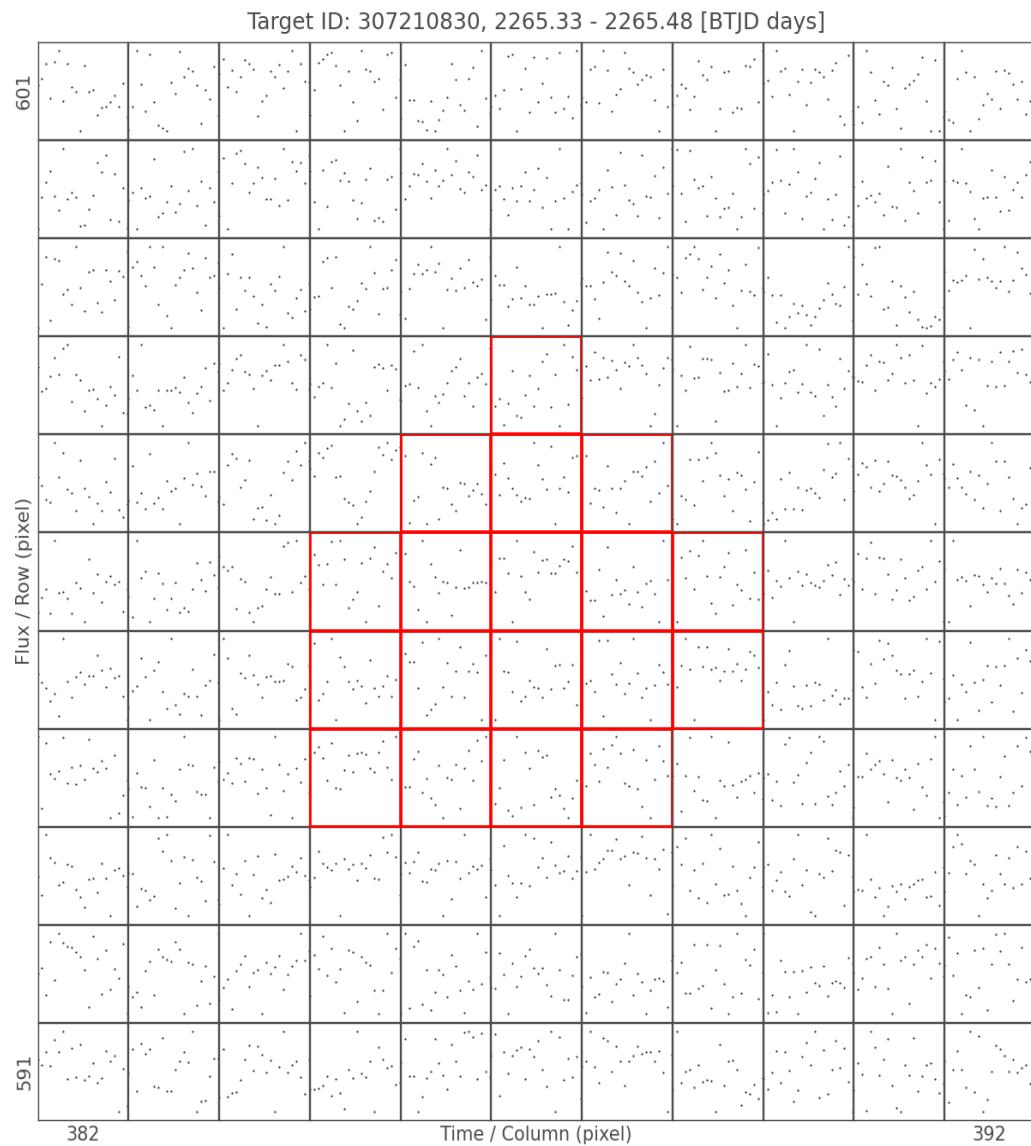
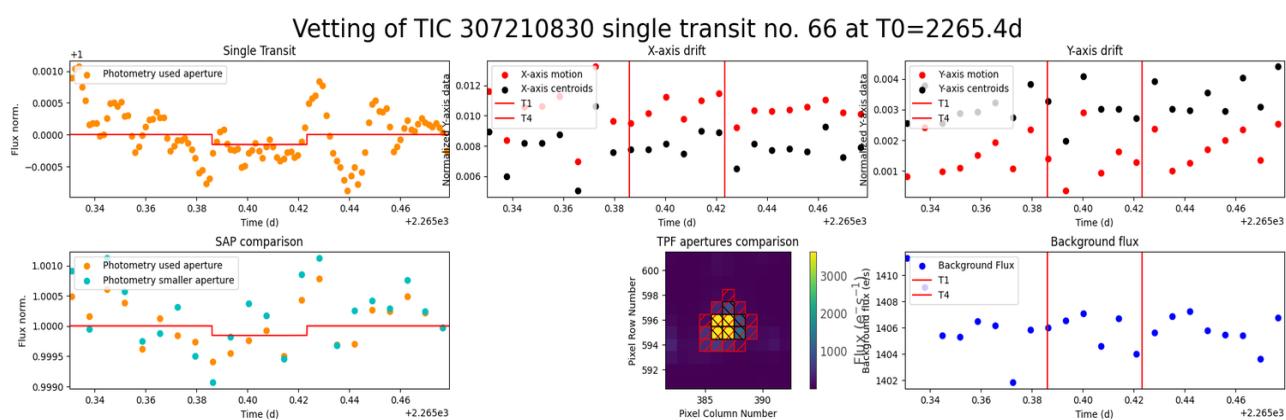


**Figure 78:** The single transit no. 65 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:55

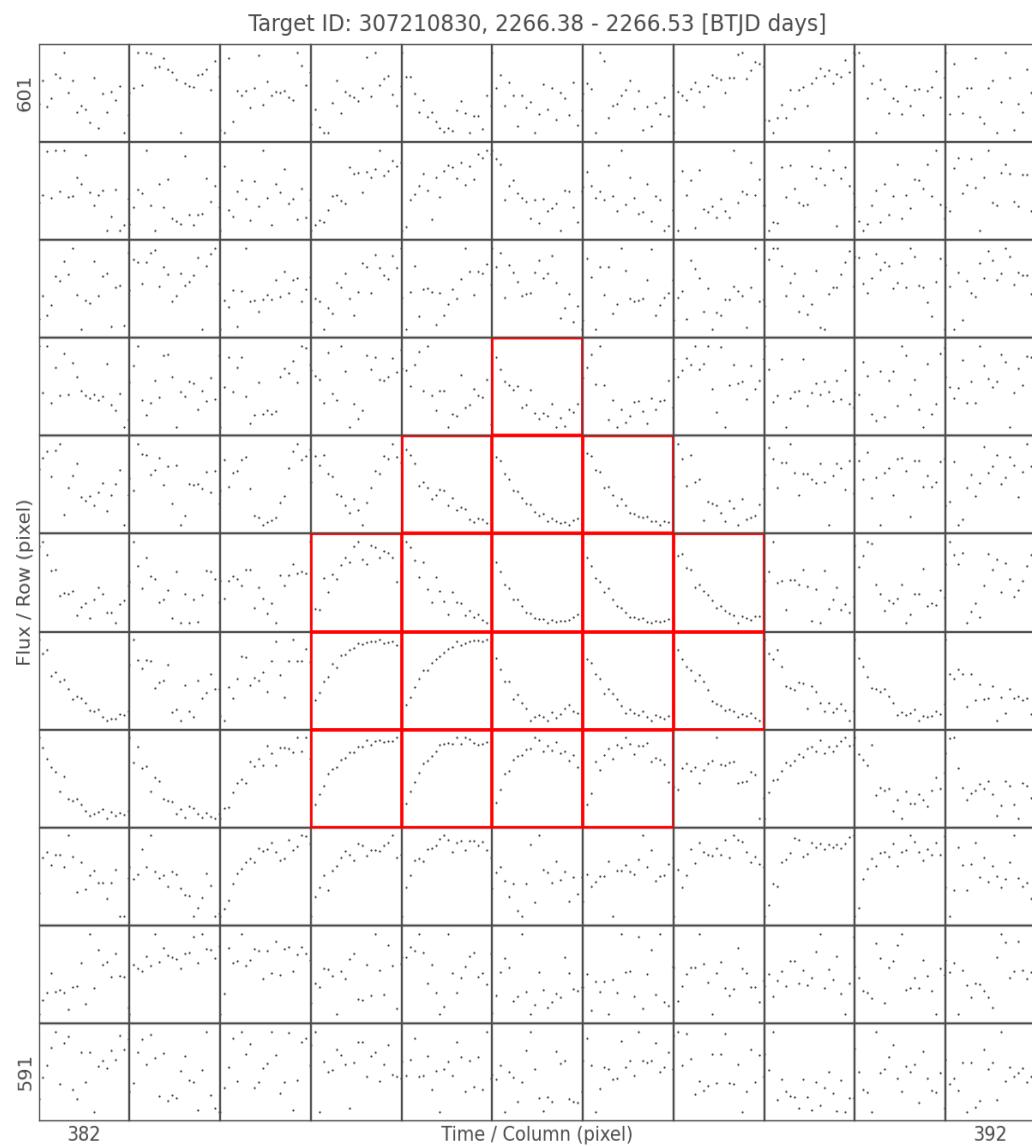
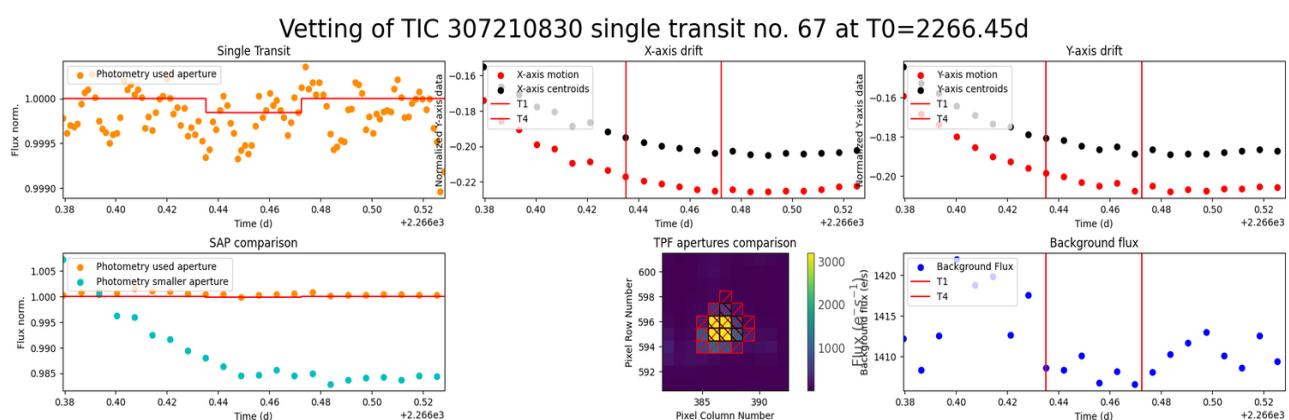


**Figure 79:** The single transit no. 66 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:55

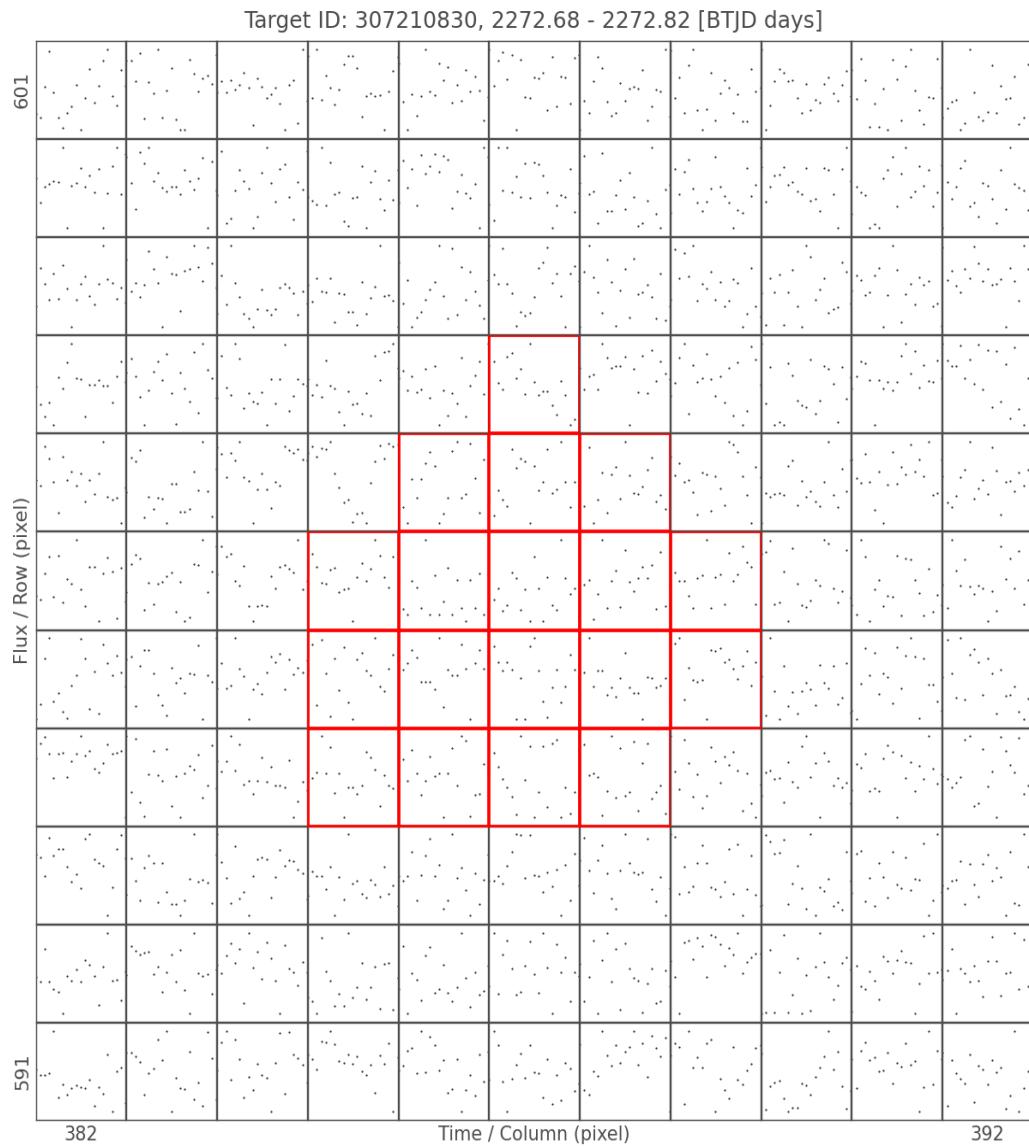
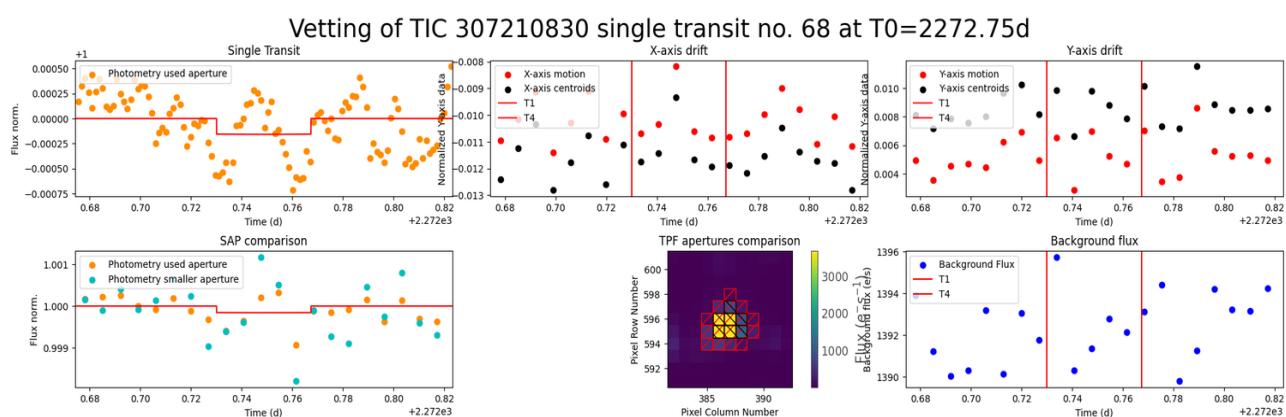


**Figure 80:** The single transit no. 67 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:55

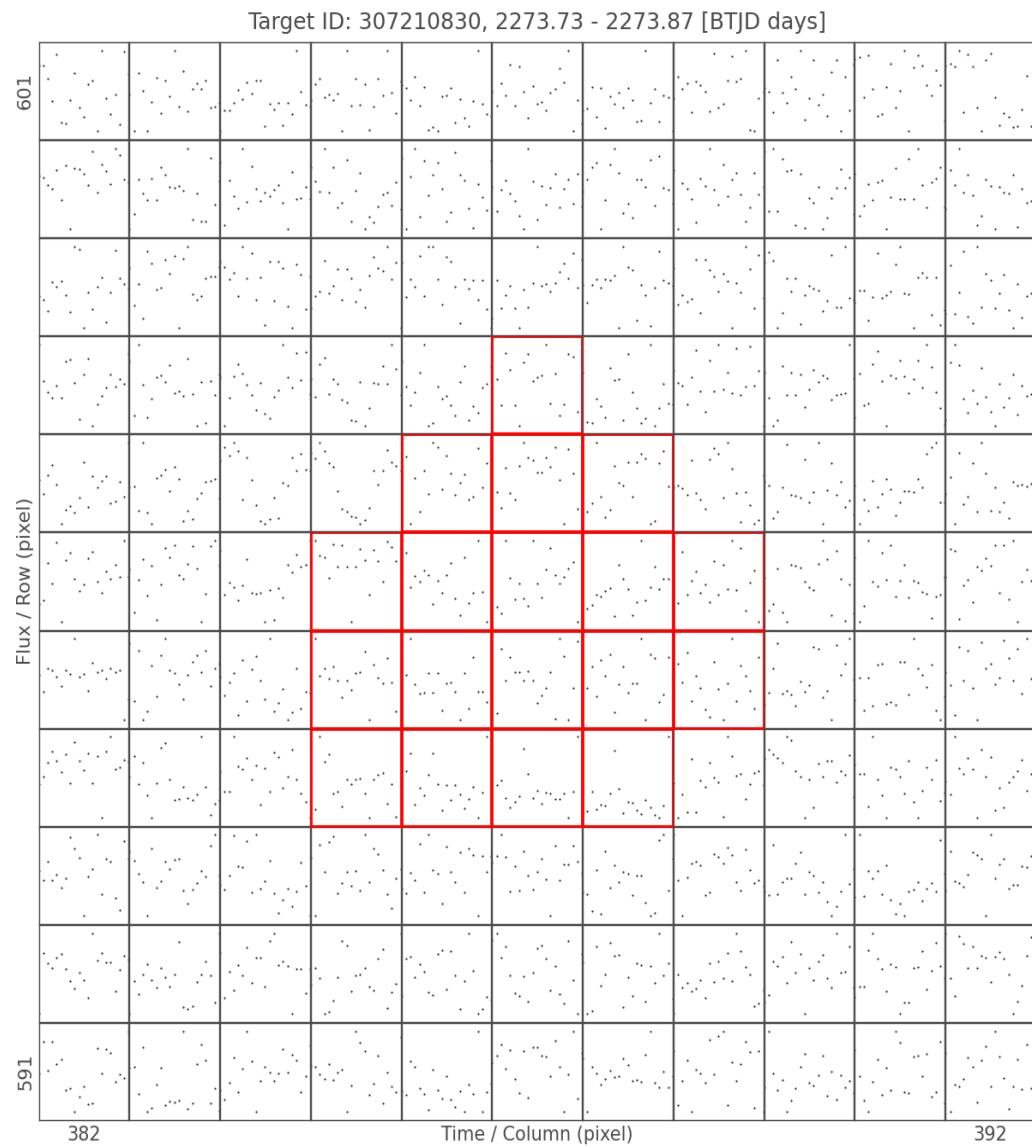
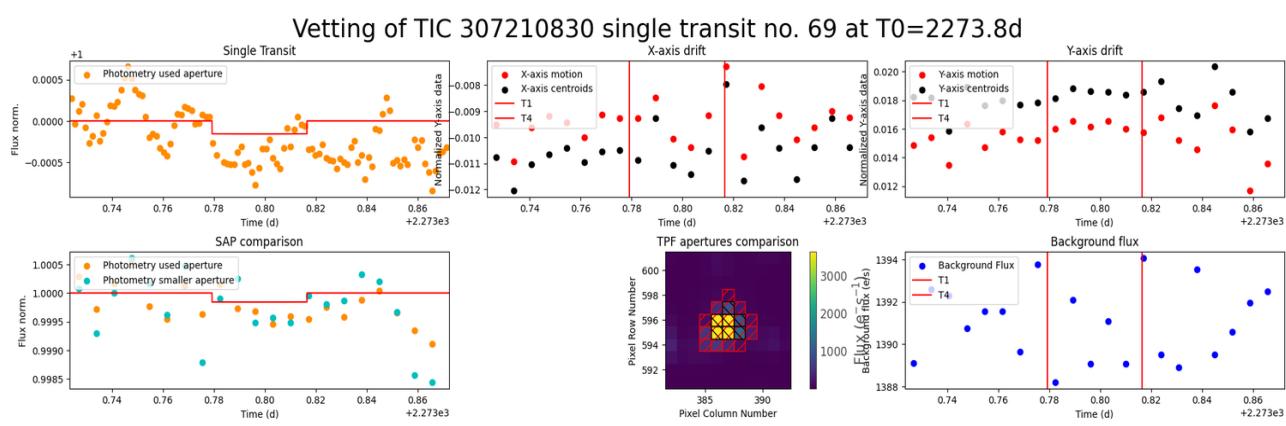


**Figure 81:** The single transit no. 68 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:55

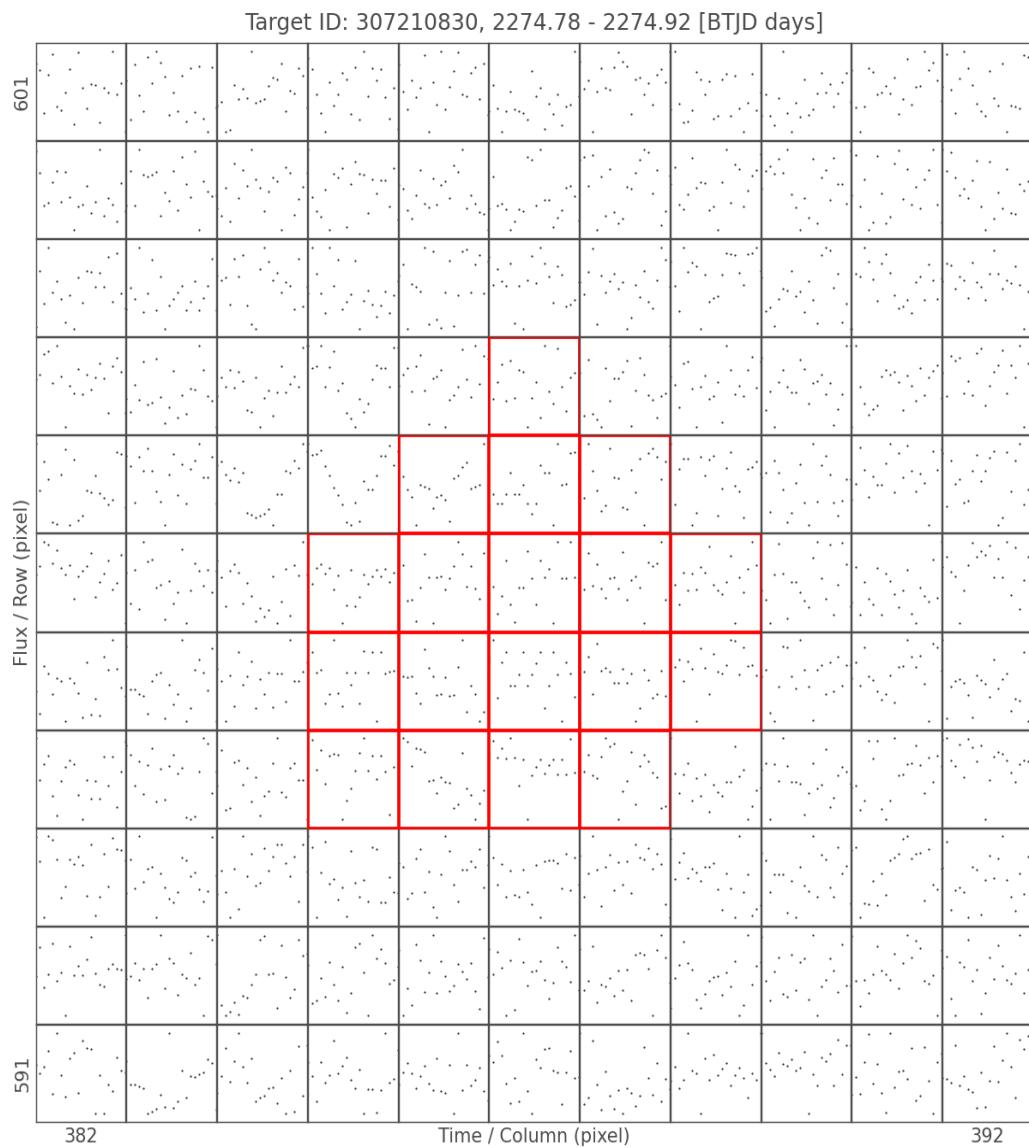
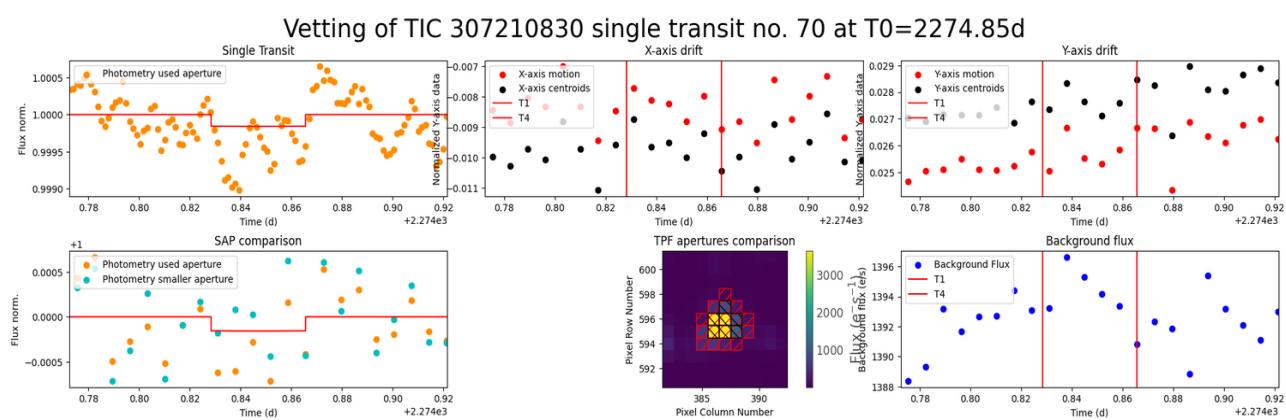


**Figure 82:** The single transit no. 69 vetting plots



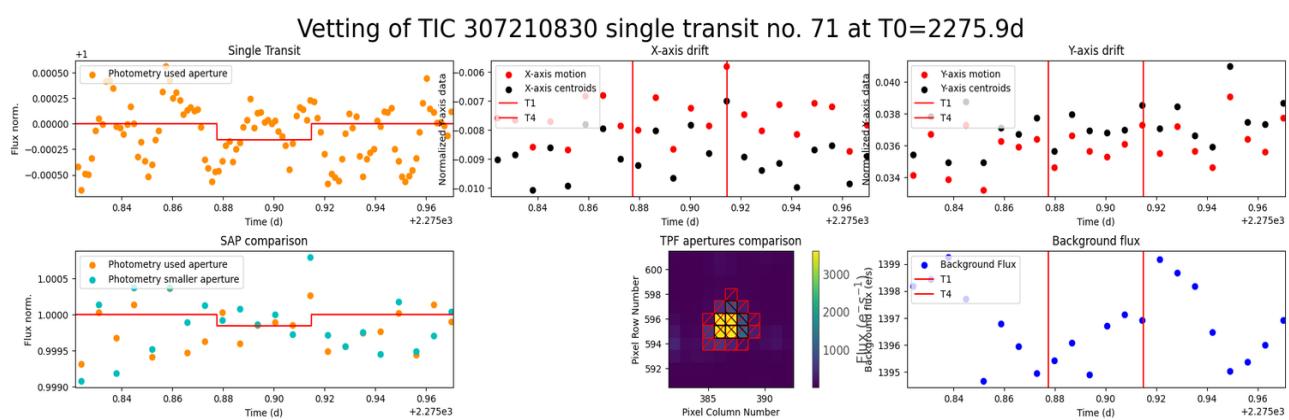
# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:56

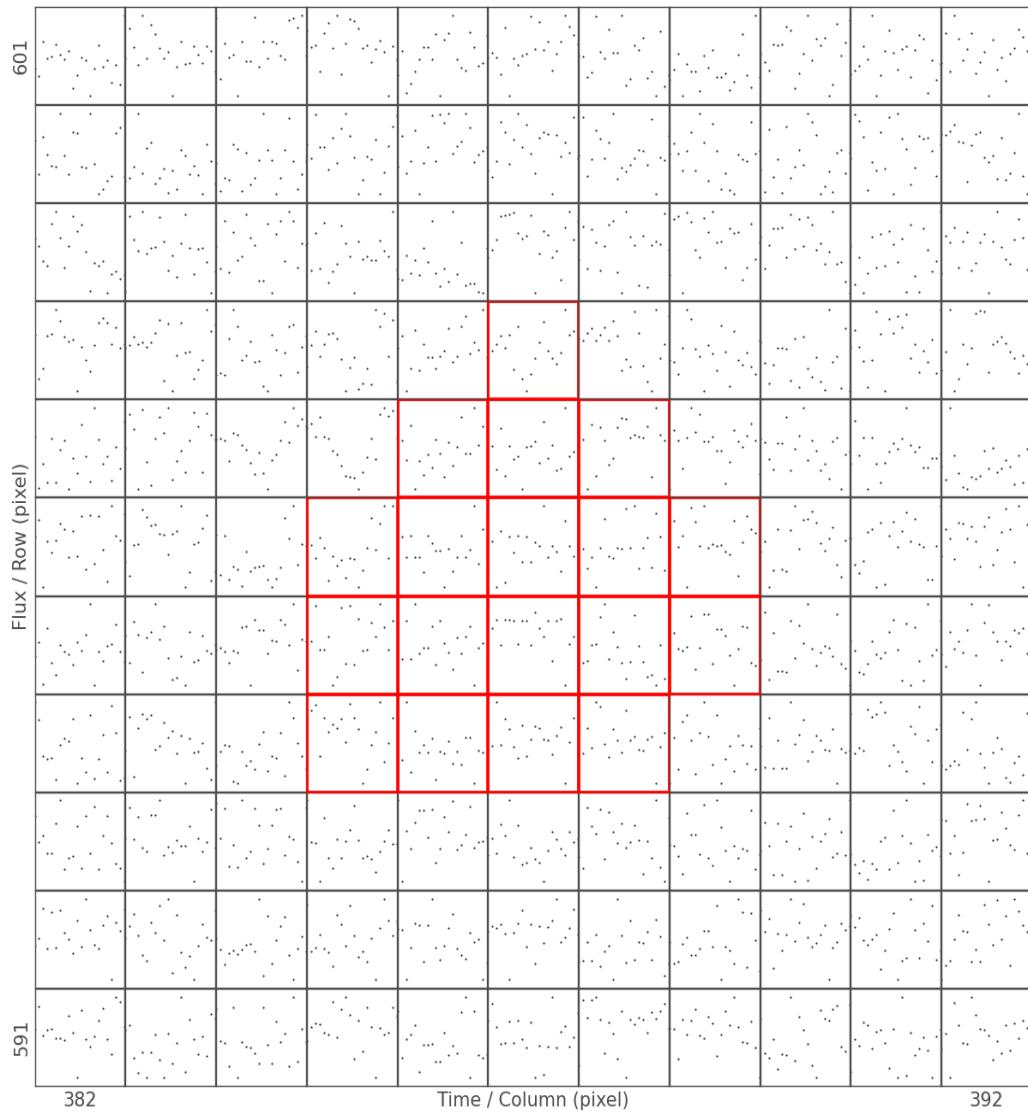


**Figure 83:** The single transit no. 70 vetting plots

## WATSON Transits Validation Report: TIC 307210830



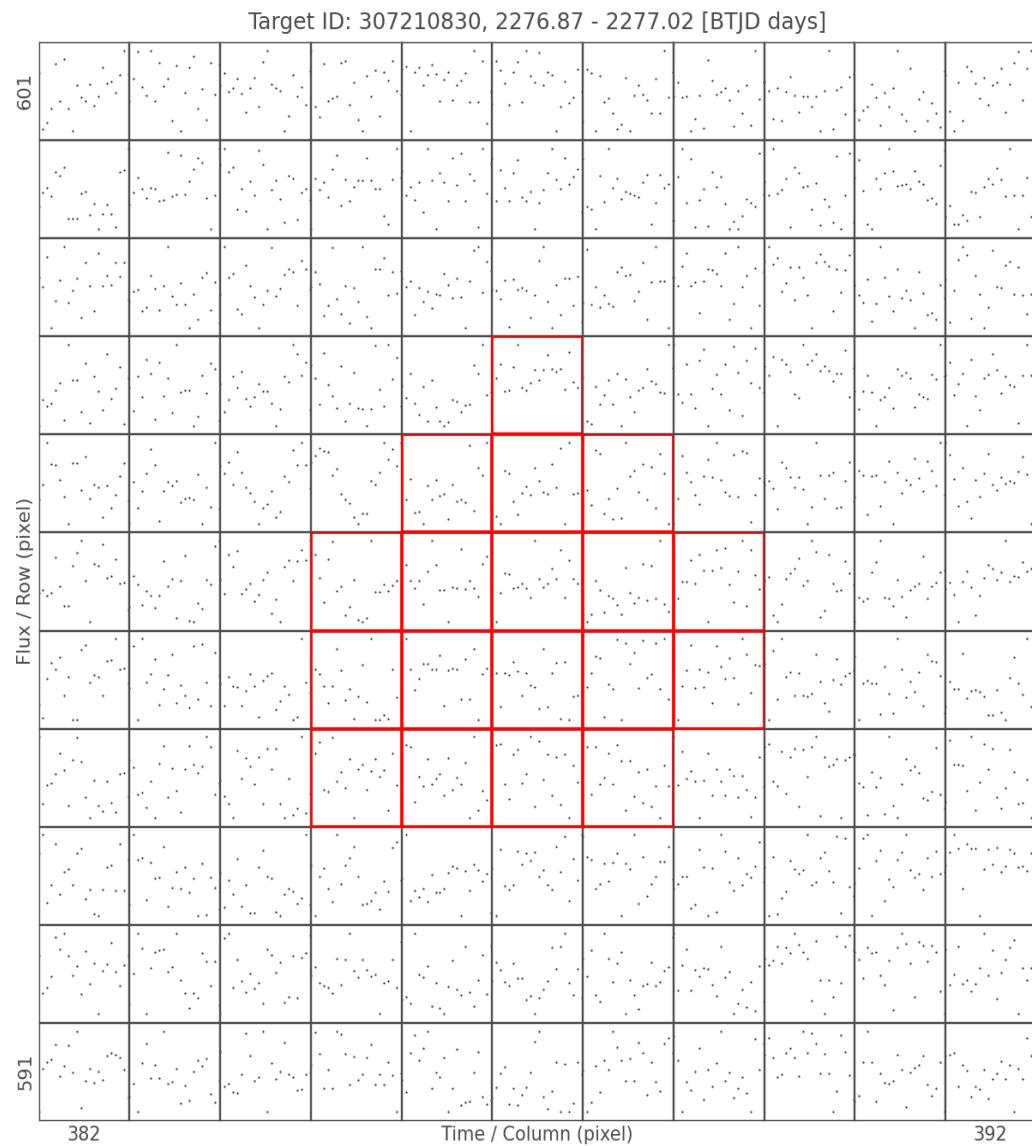
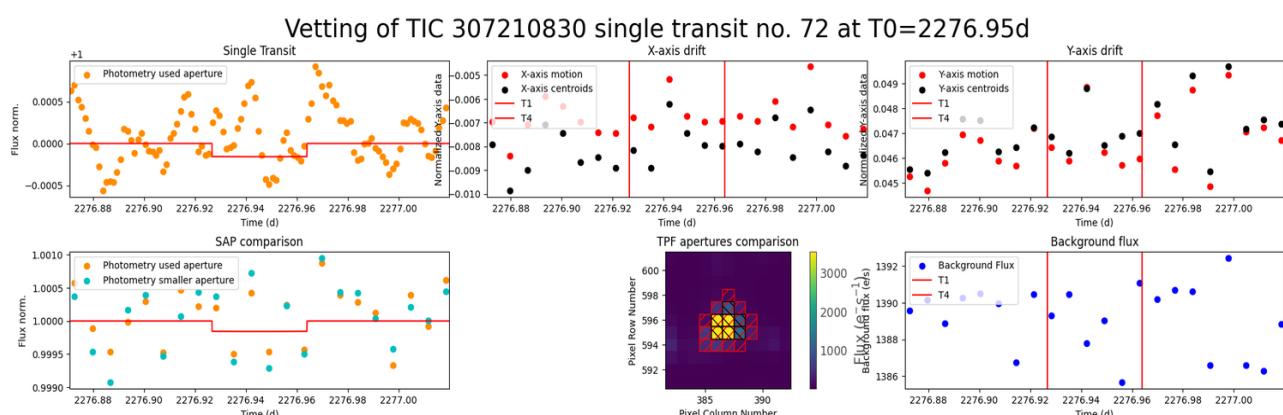
Target ID: 307210830, 2275.82 - 2275.97 [BTJD days]


**Figure 84:** The single transit no. 71 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:56

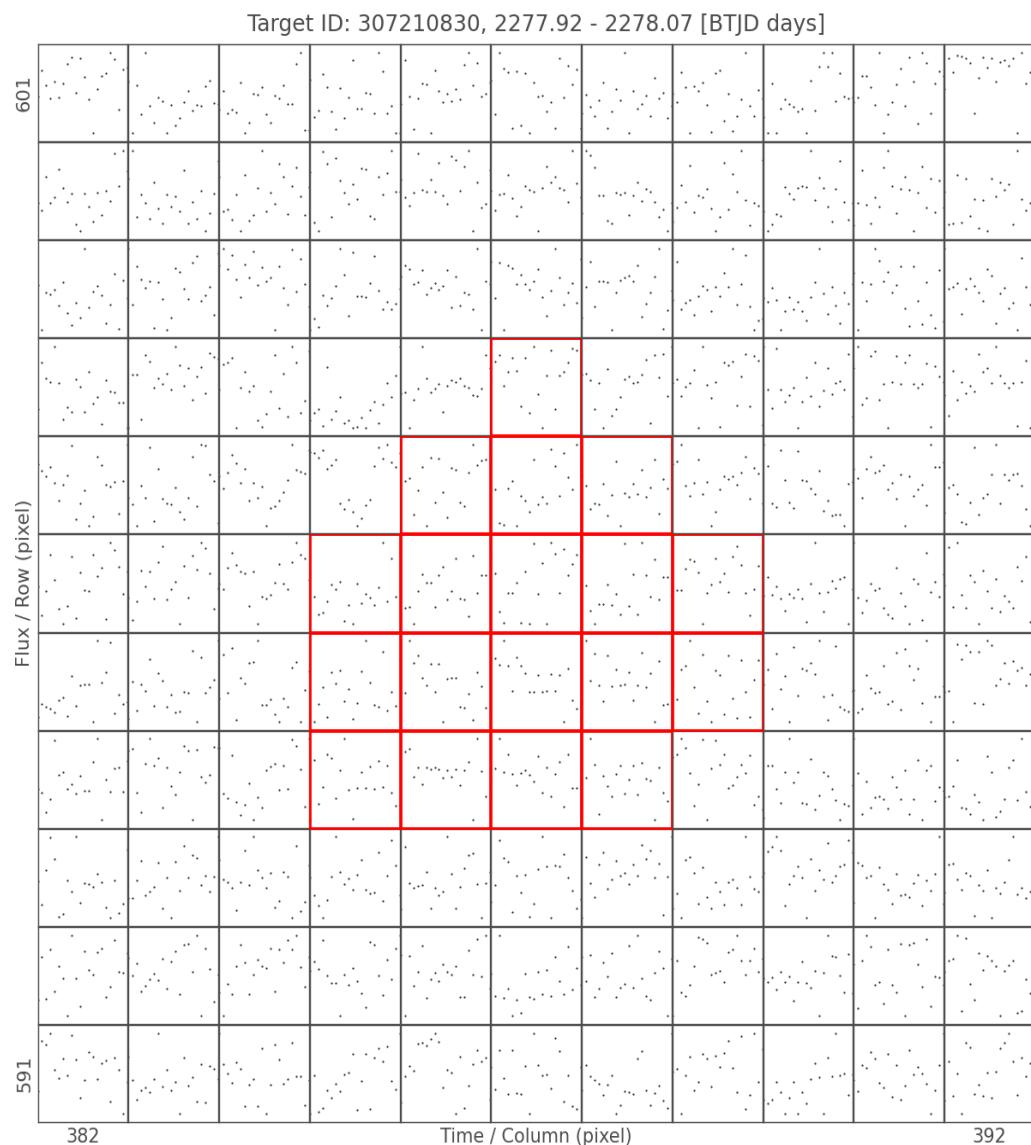
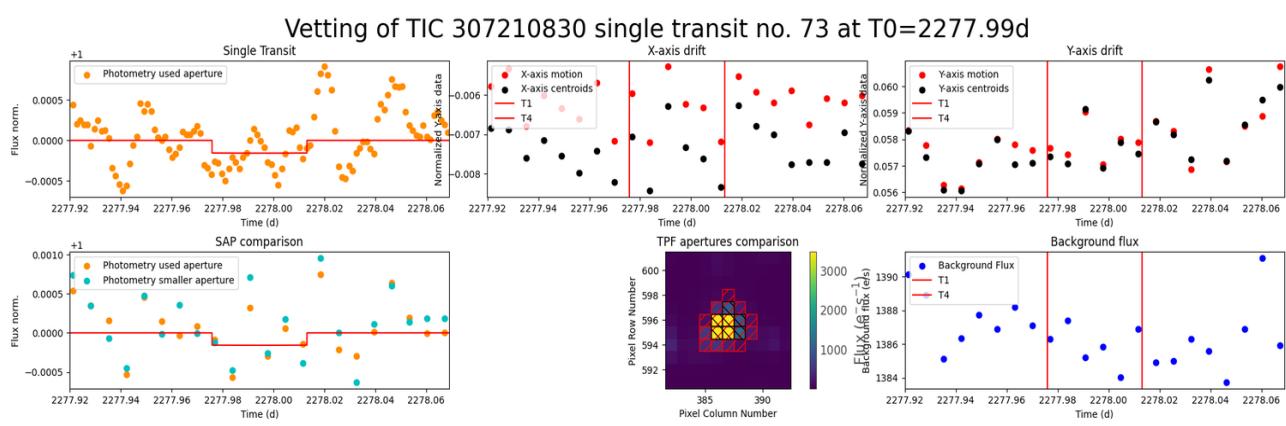


**Figure 85:** The single transit no. 72 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:56

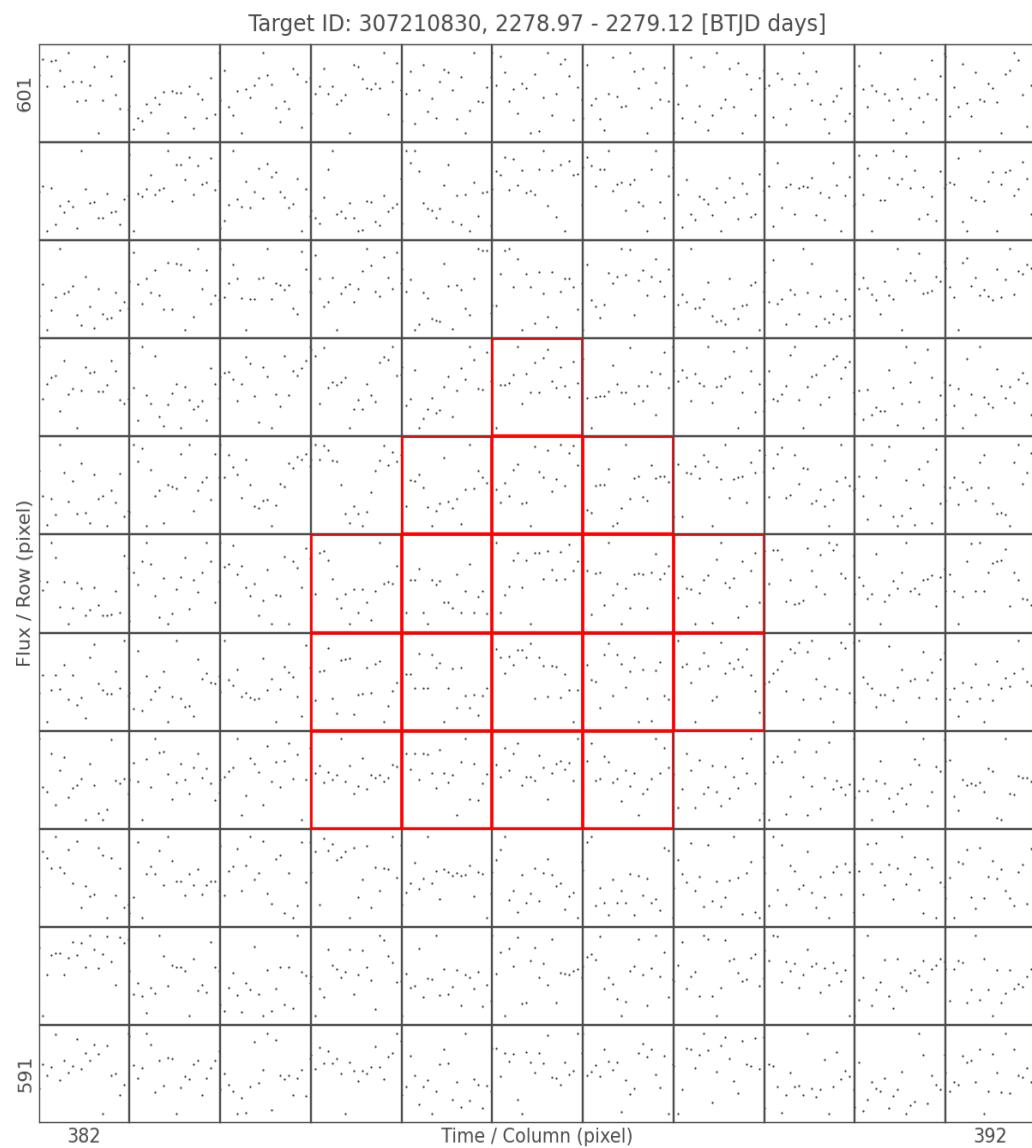
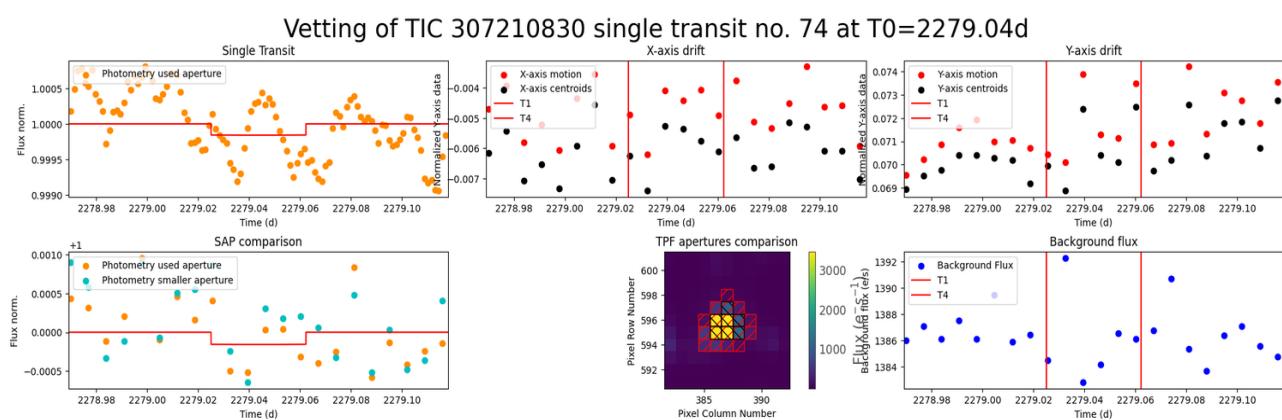


**Figure 86:** The single transit no. 73 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:56

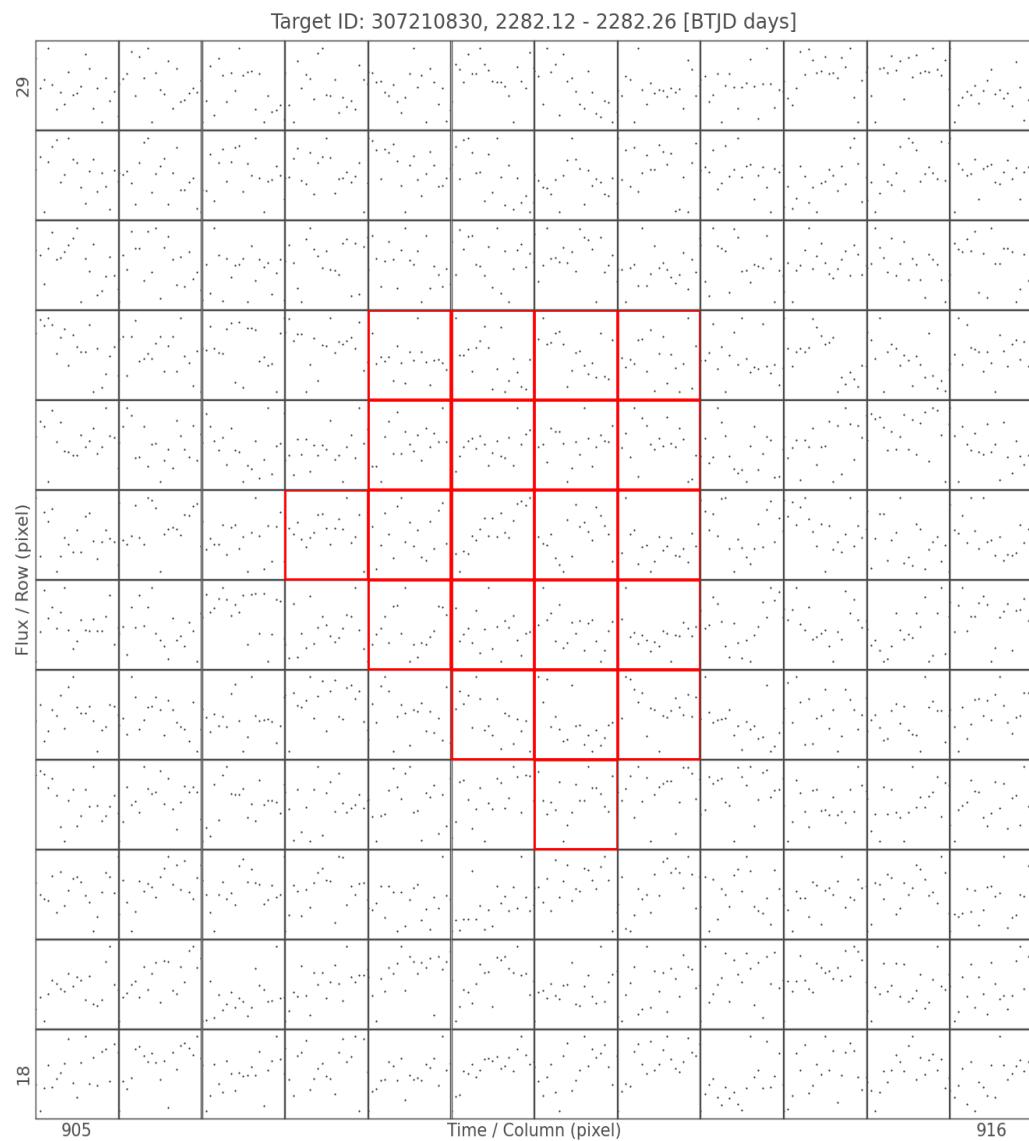
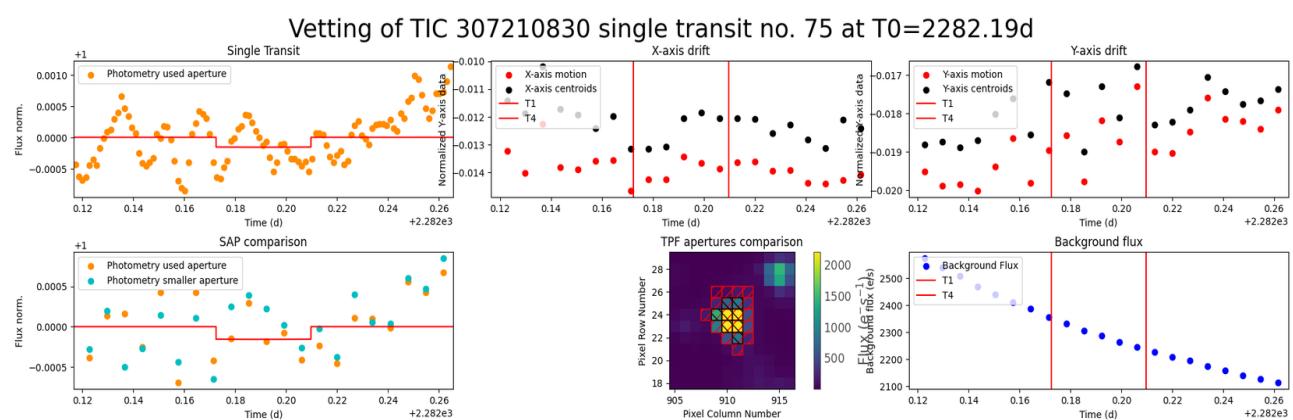


**Figure 87:** The single transit no. 74 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:56

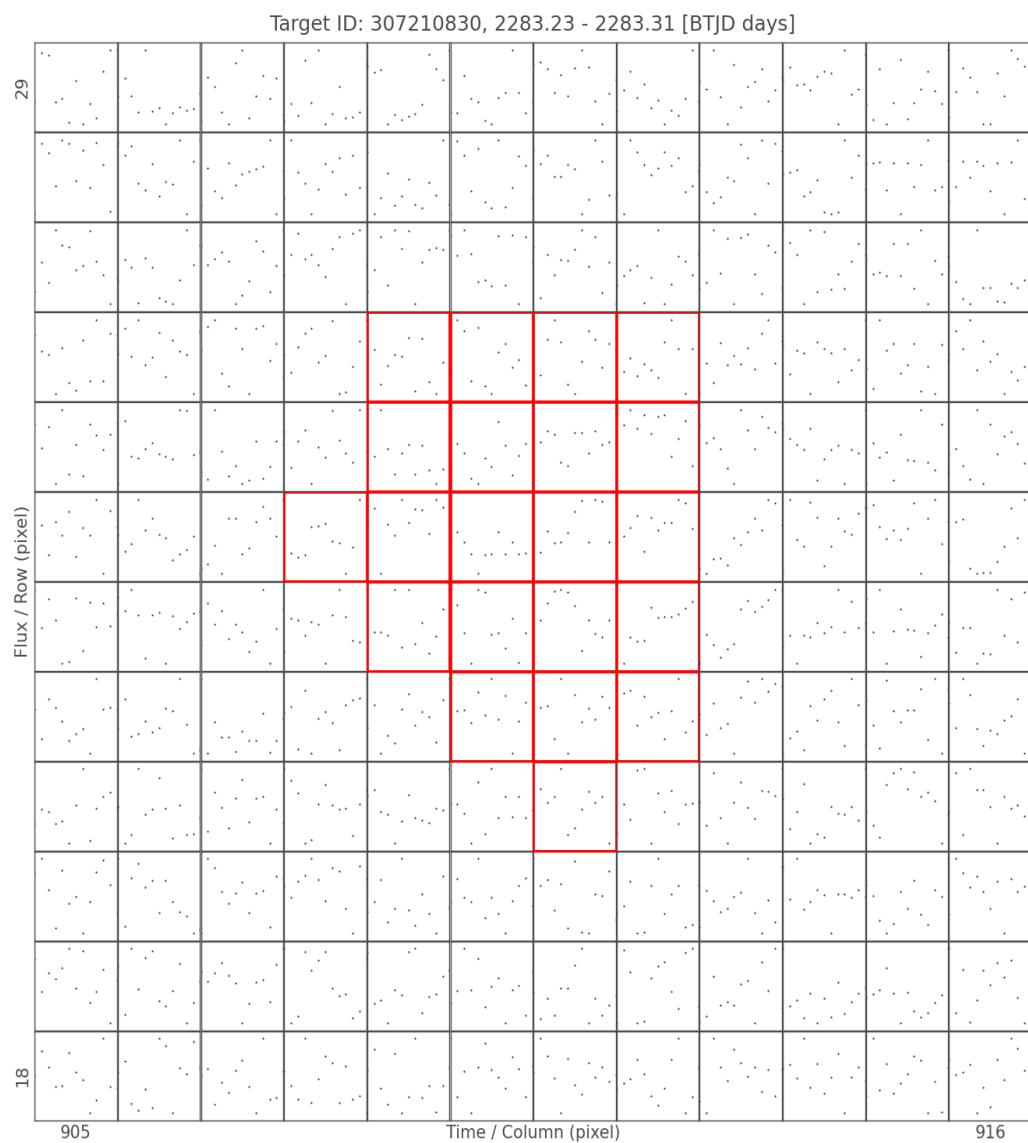
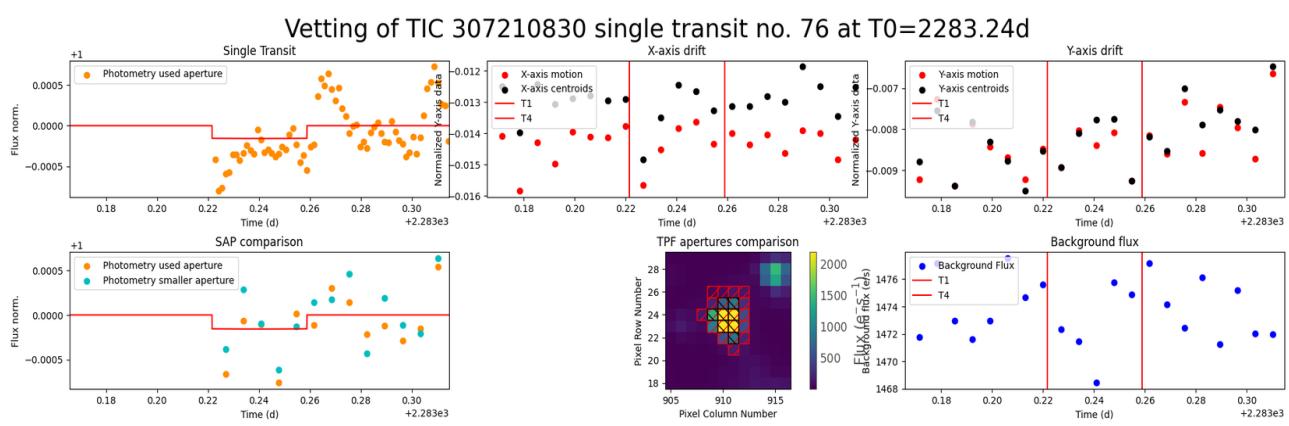


**Figure 88:** The single transit no. 75 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:57

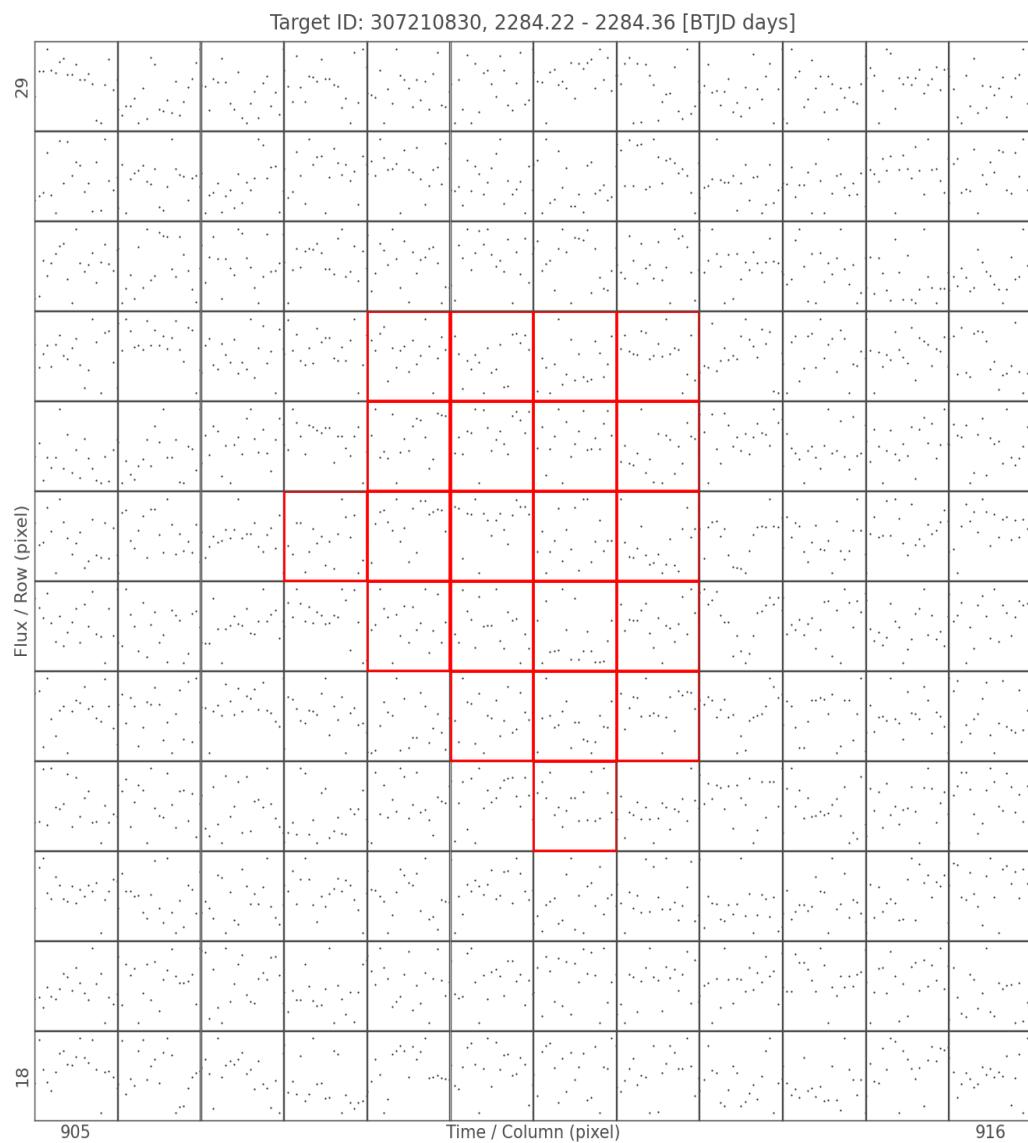
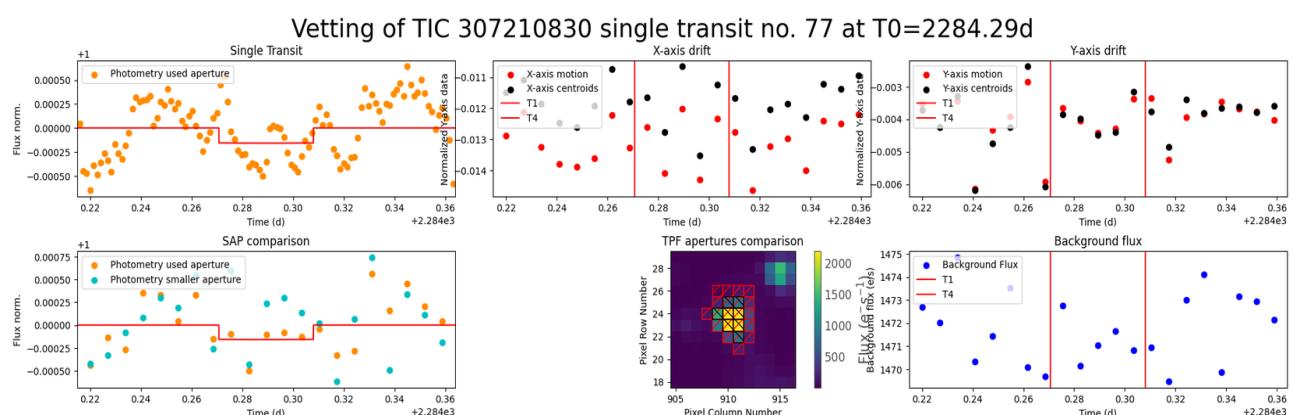


**Figure 89:** The single transit no. 76 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:57

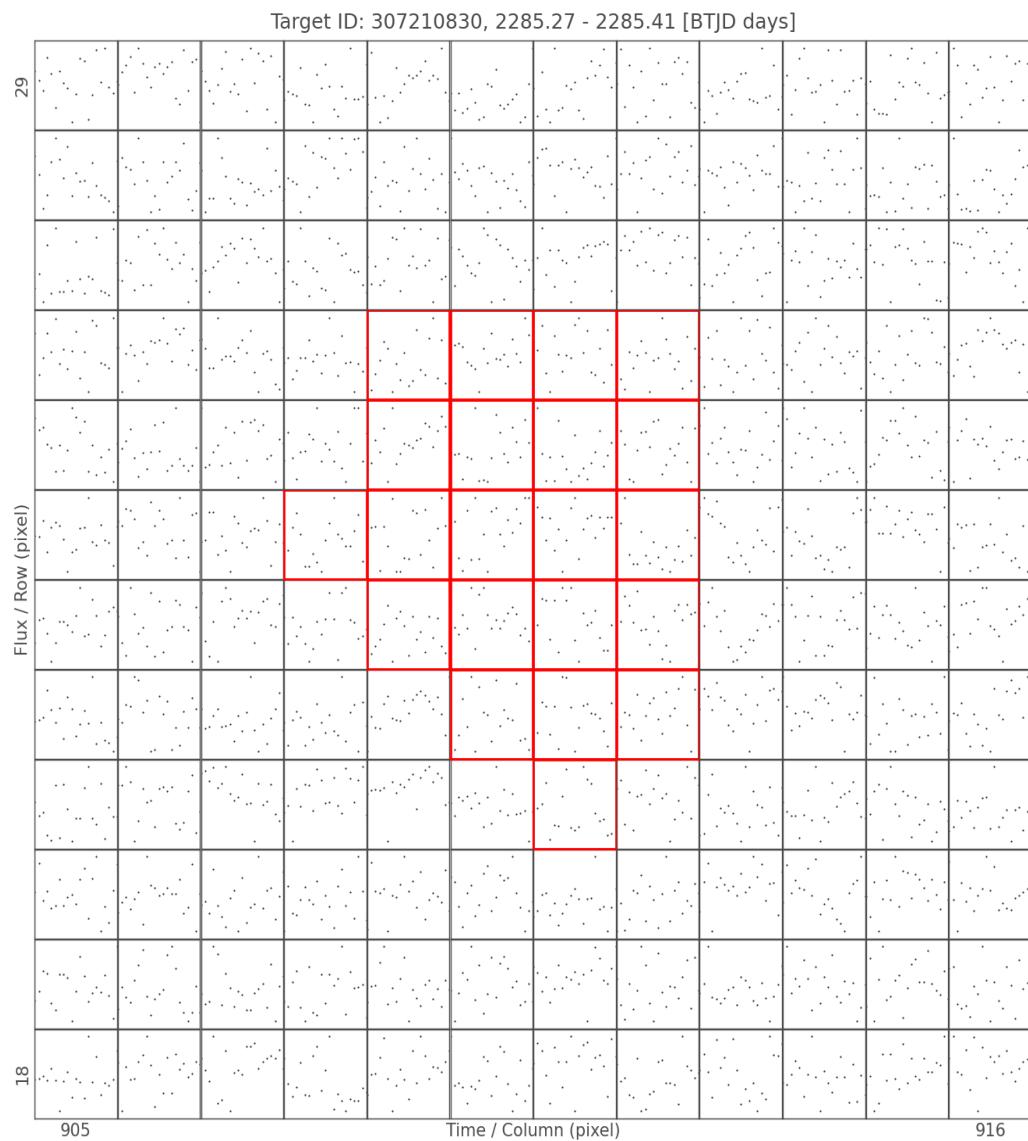
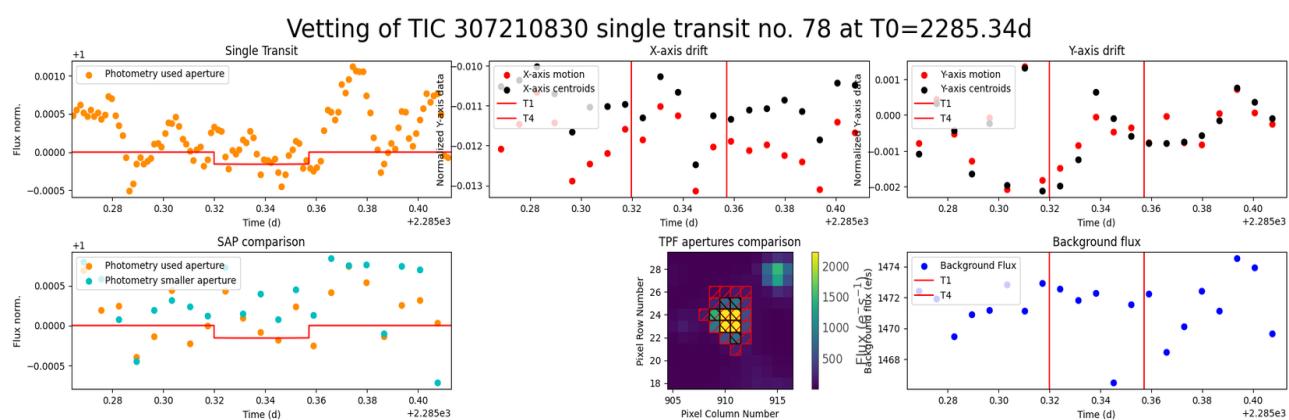


**Figure 90:** The single transit no. 77 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:57

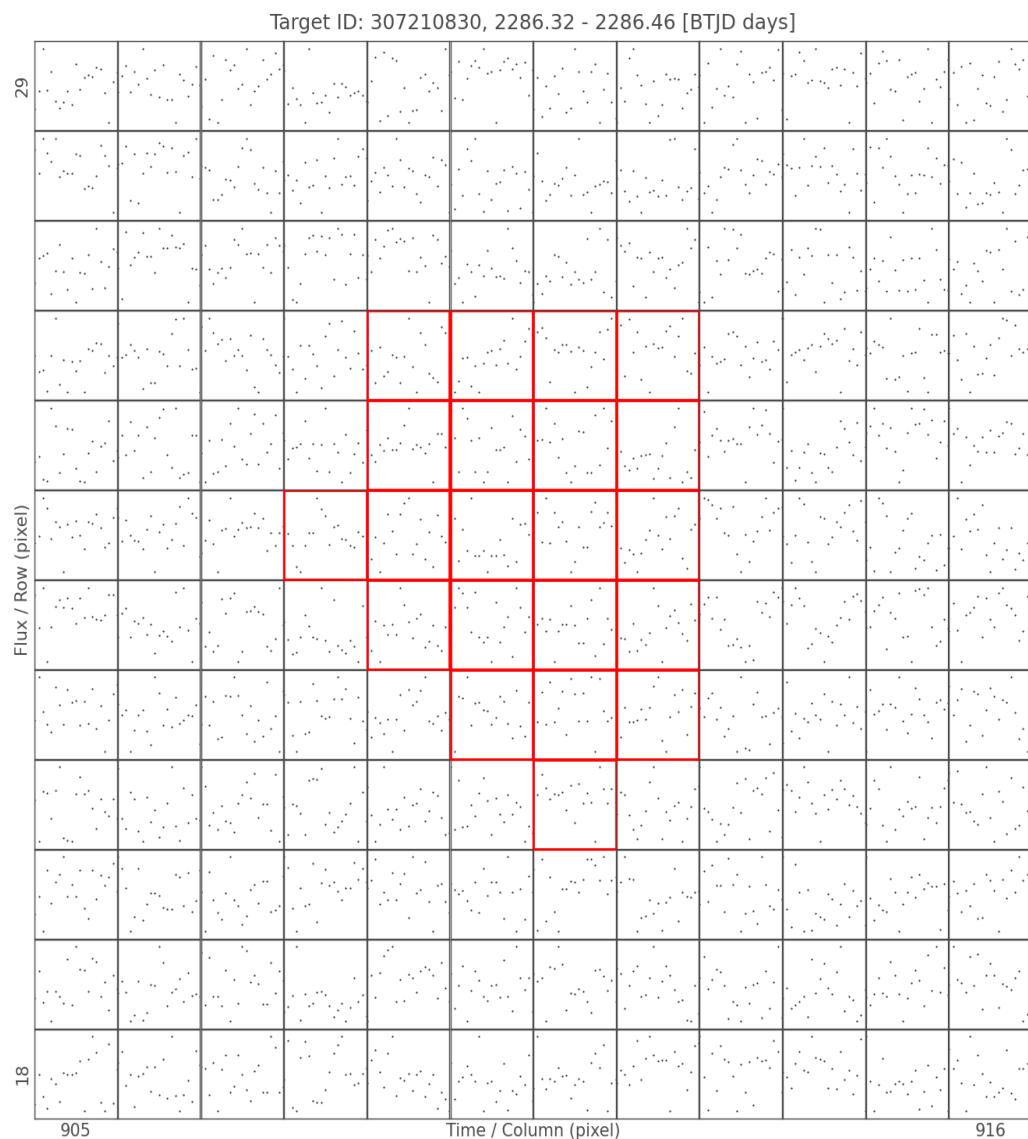
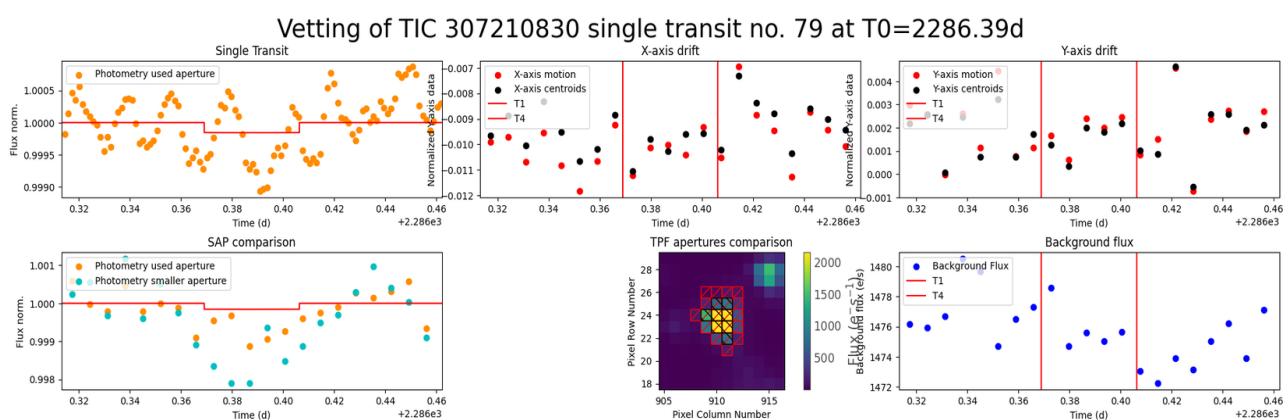


**Figure 91:** The single transit no. 78 vetting plots



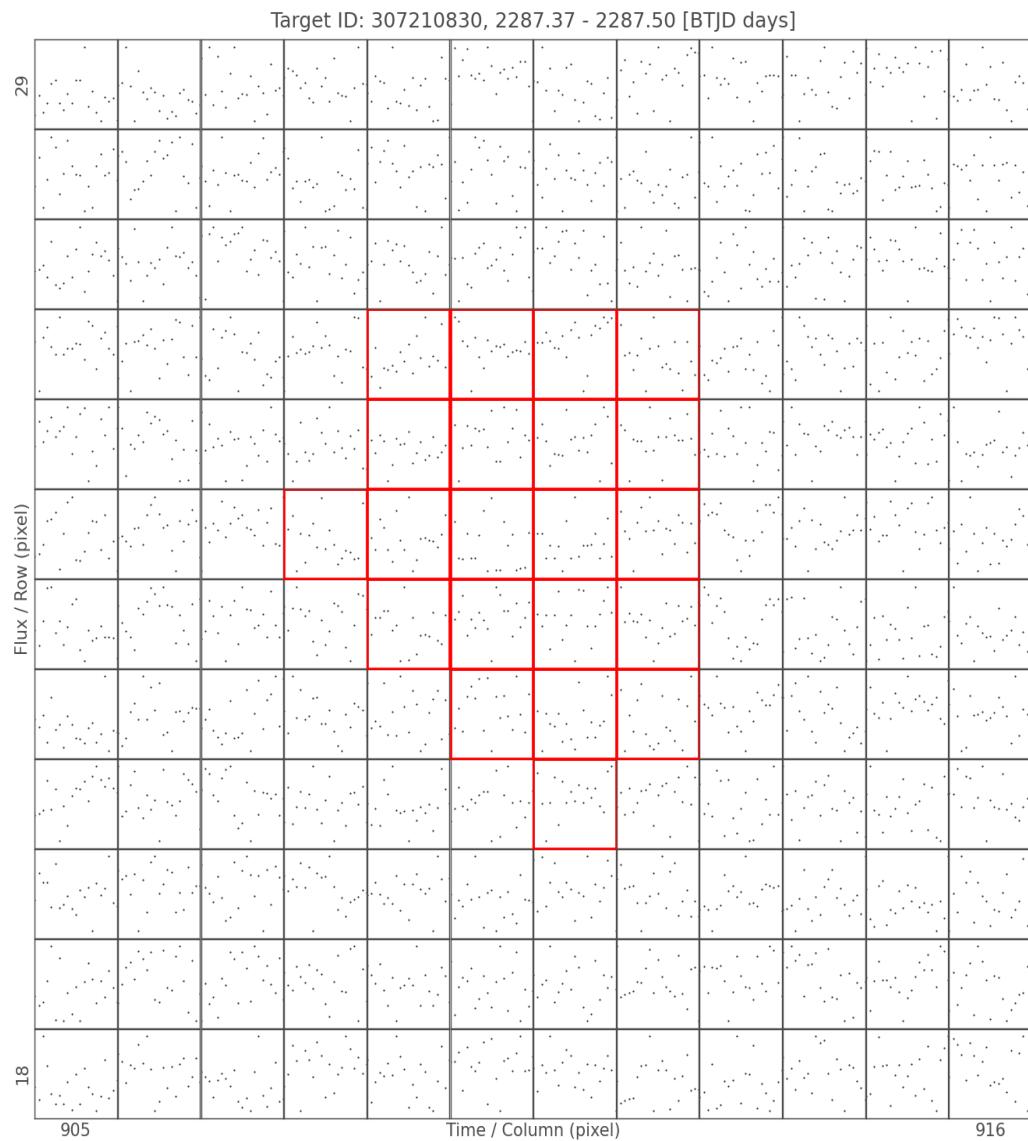
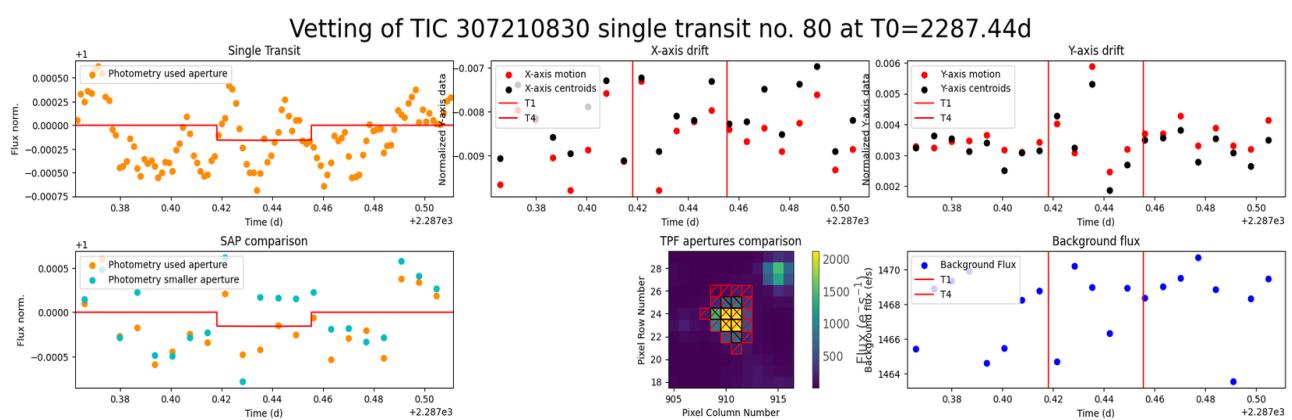
## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:57



**Figure 92:** The single transit no. 79 vetting plots

## WATSON Transits Validation Report: TIC 307210830

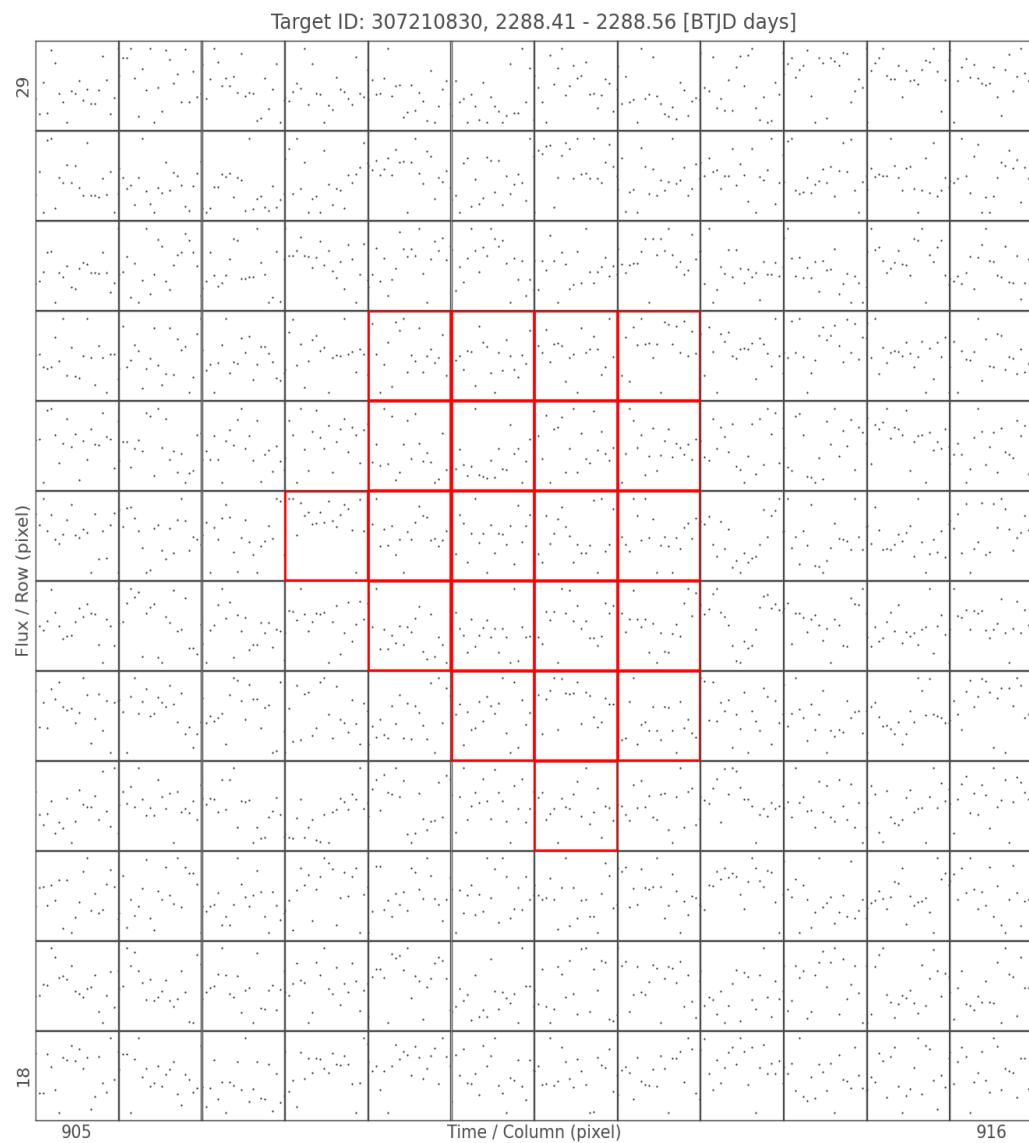
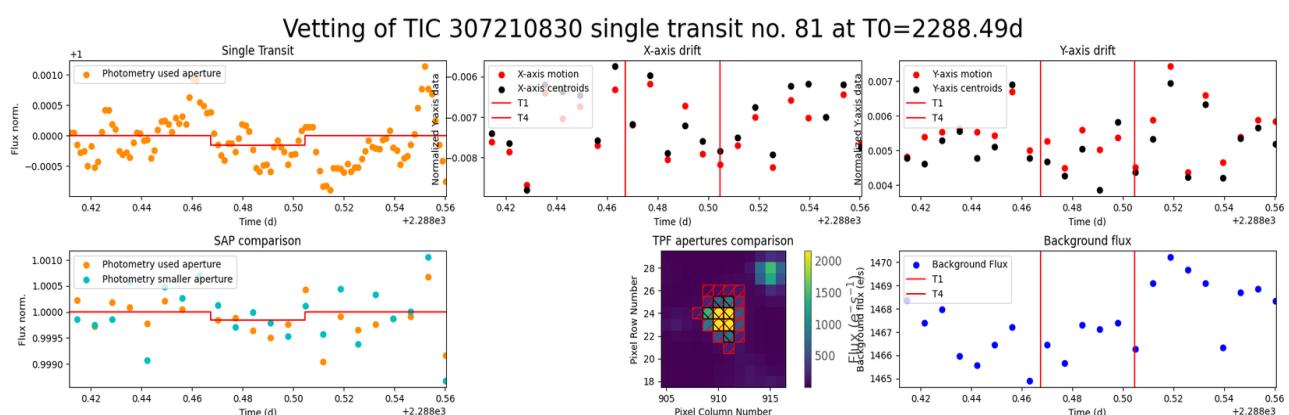


**Figure 93:** The single transit no. 80 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:58

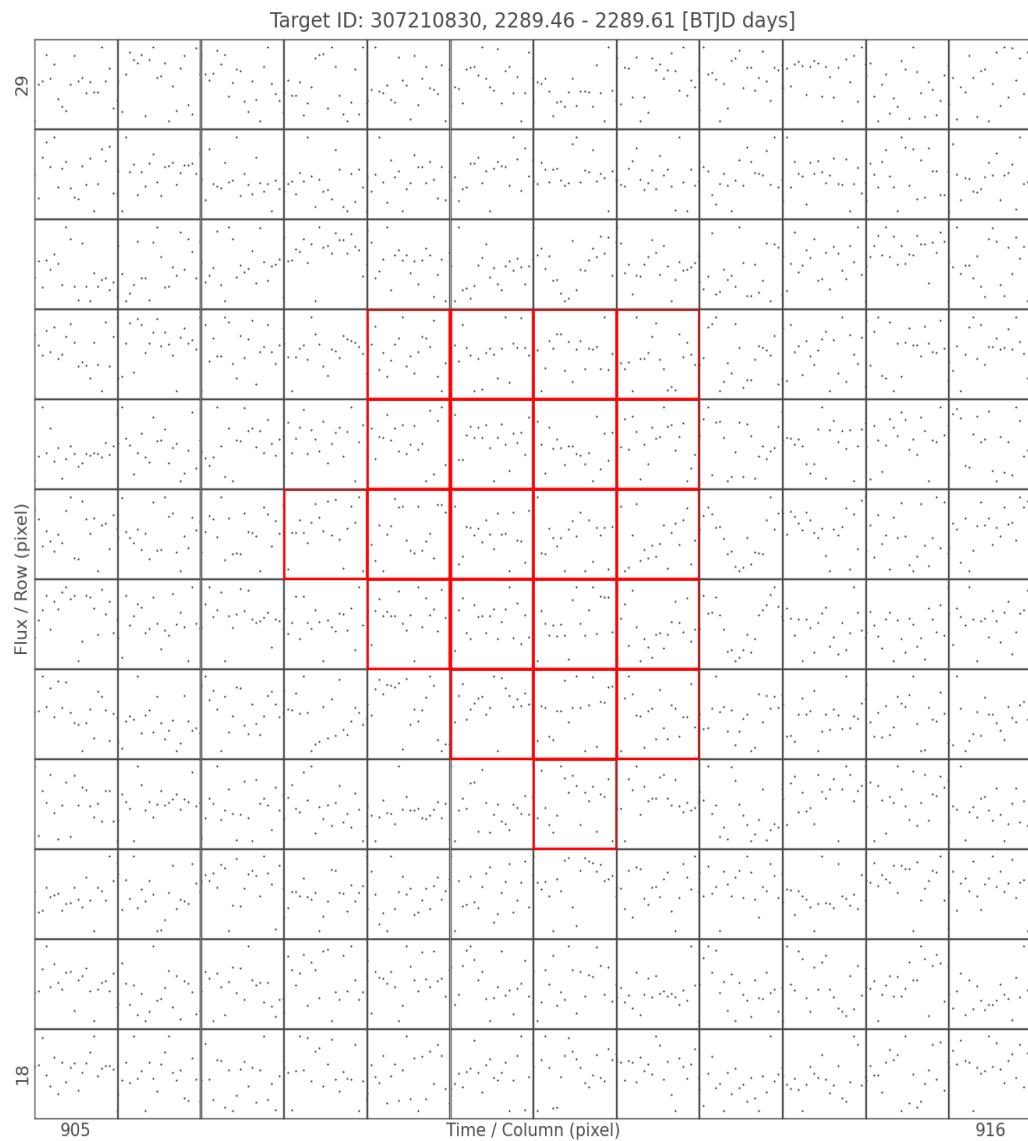
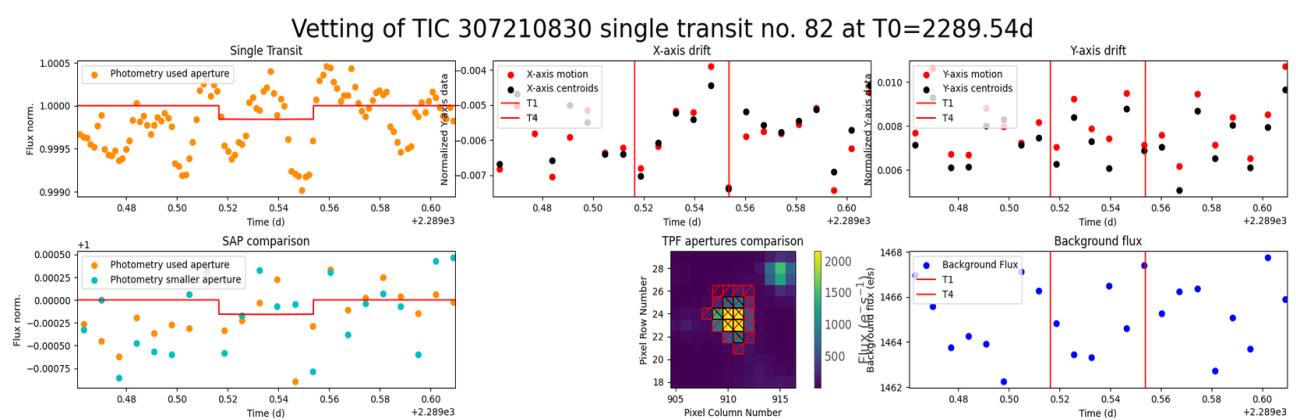


**Figure 94:** The single transit no. 81 vetting plots



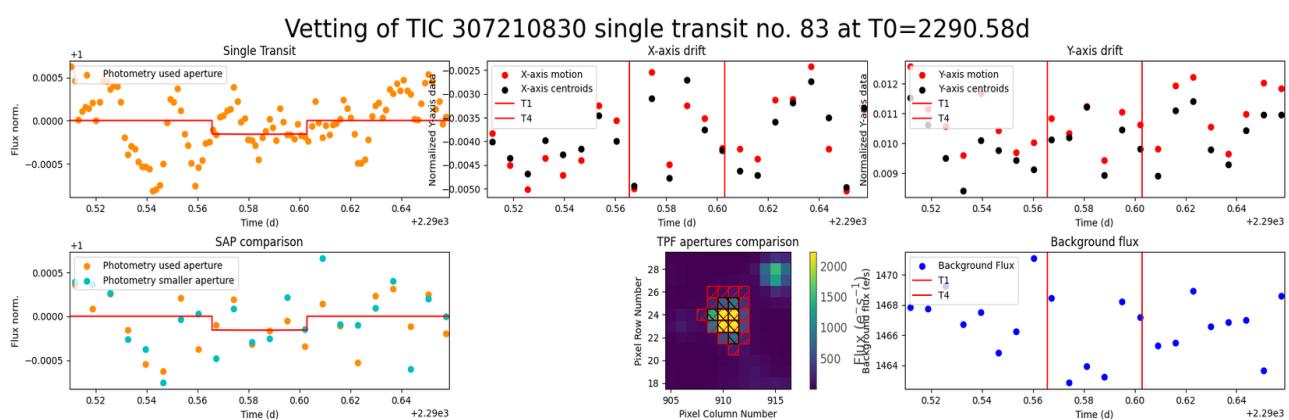
## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:58

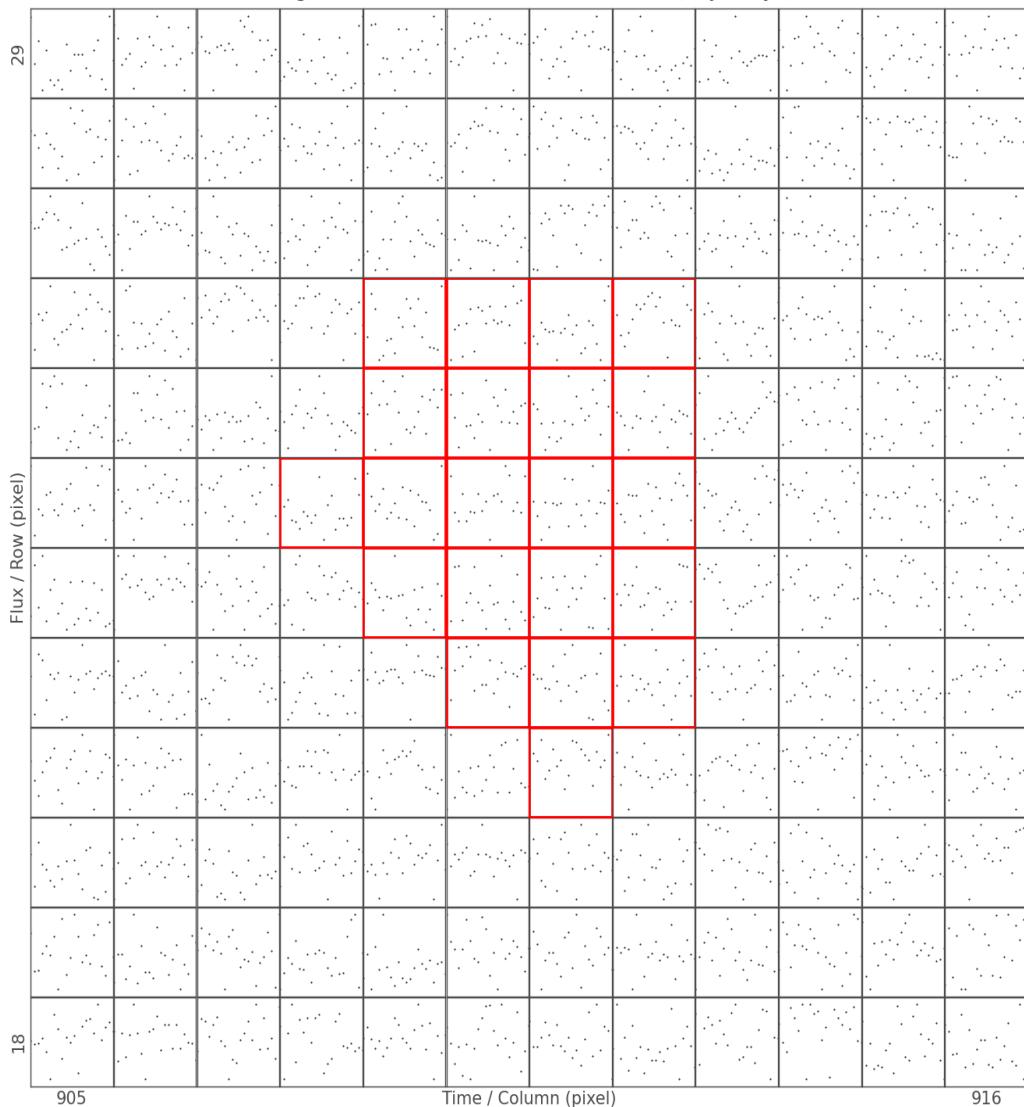


**Figure 95:** The single transit no. 82 vetting plots

## WATSON Transits Validation Report: TIC 307210830



Target ID: 307210830, 2290.51 - 2290.66 [BJD days]

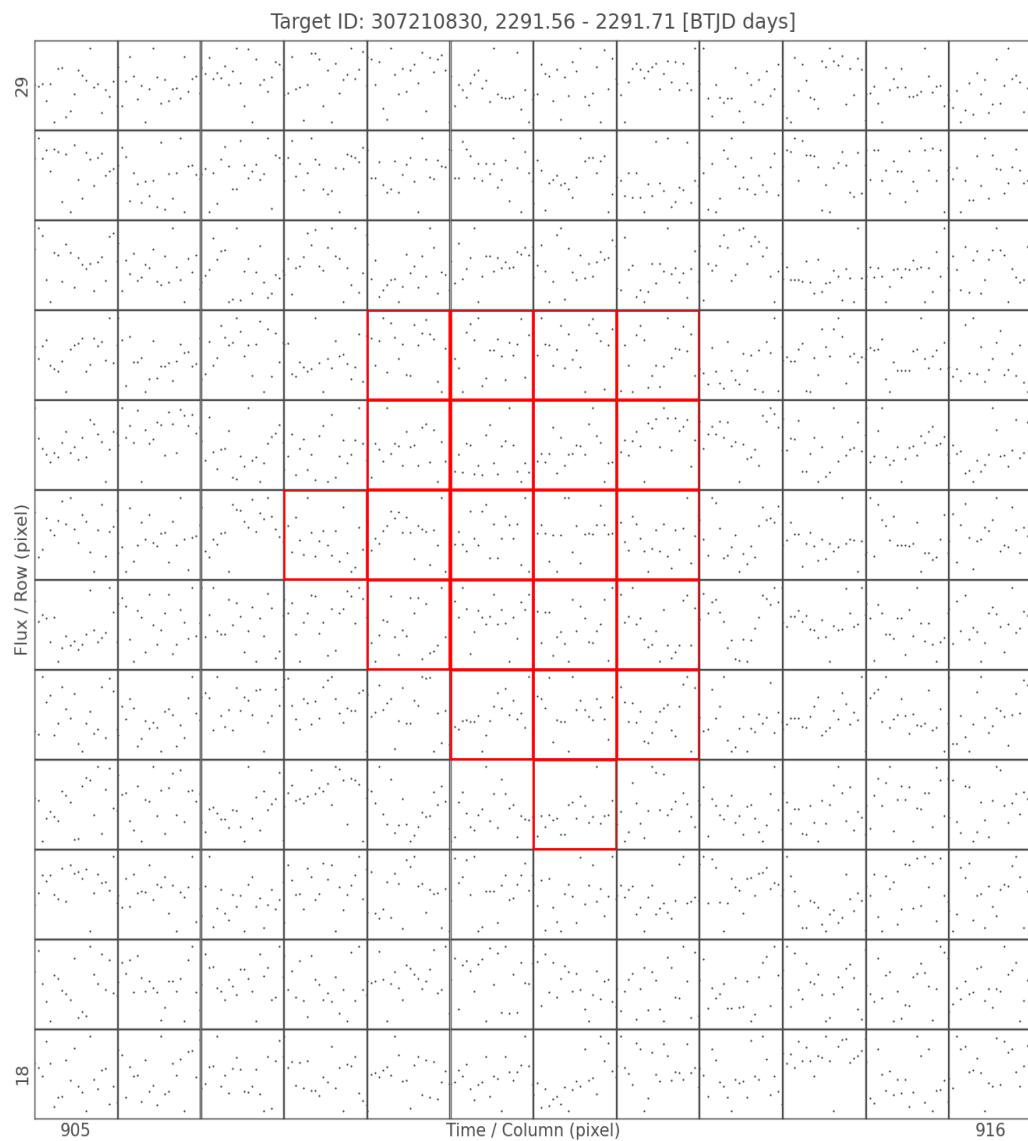
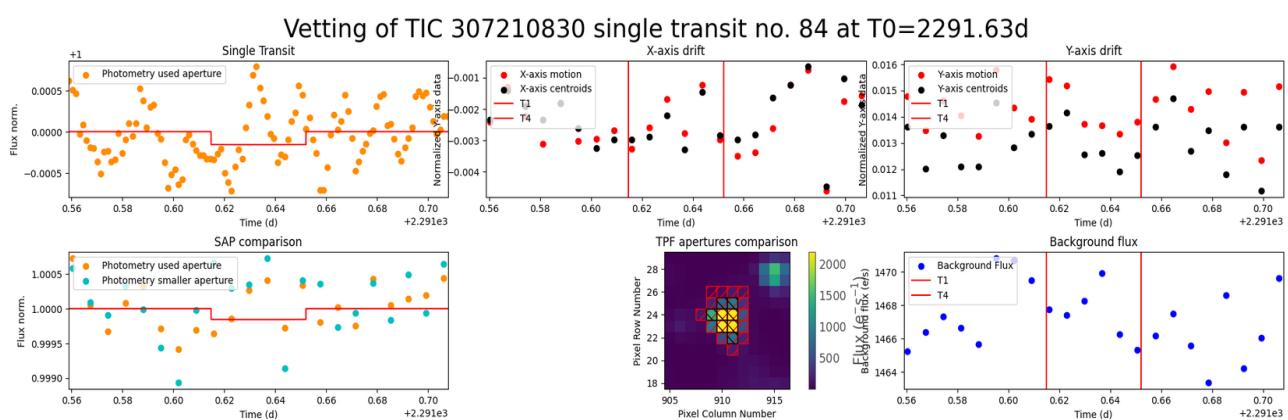


**Figure 96:** The single transit no. 83 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:58

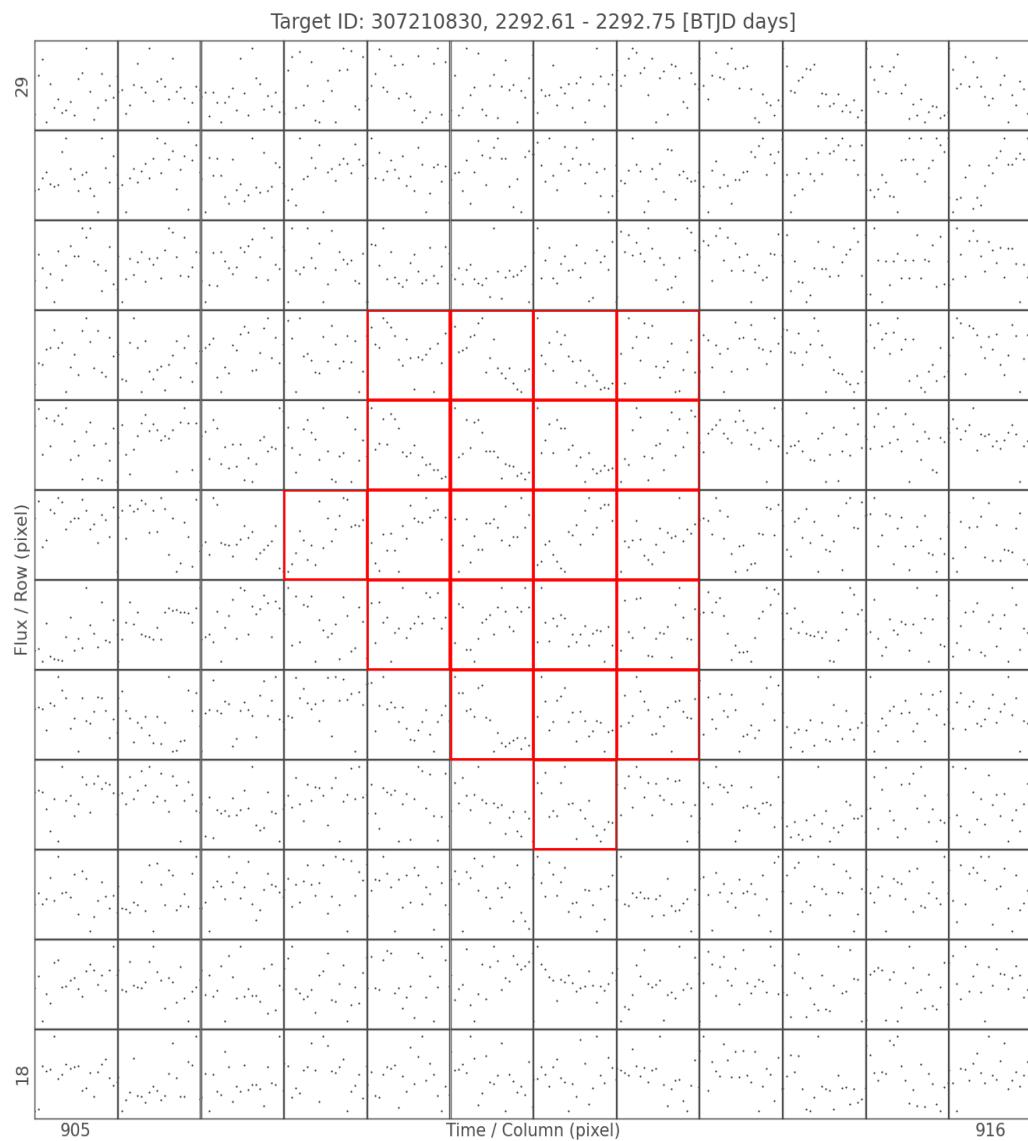
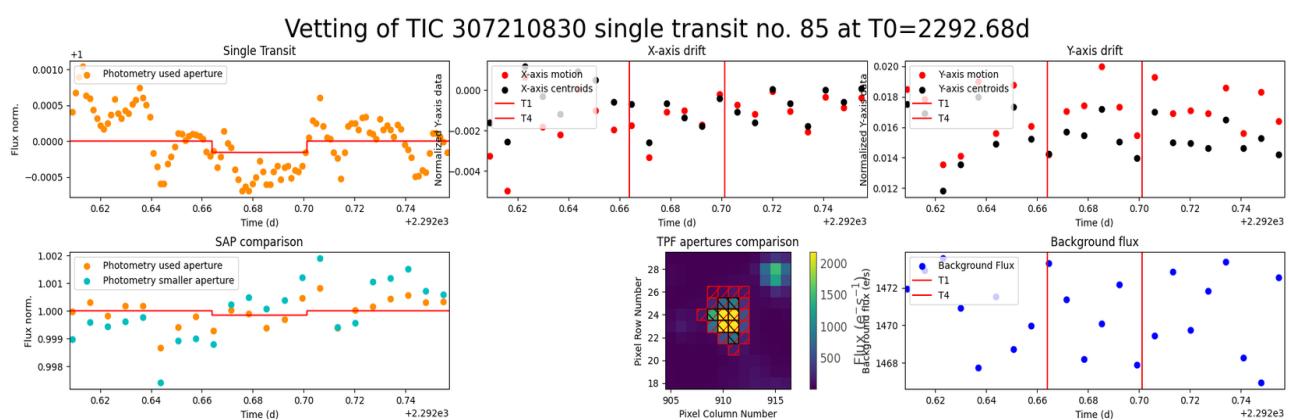


**Figure 97:** The single transit no. 84 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:59



**Figure 98:** The single transit no. 85 vetting plots

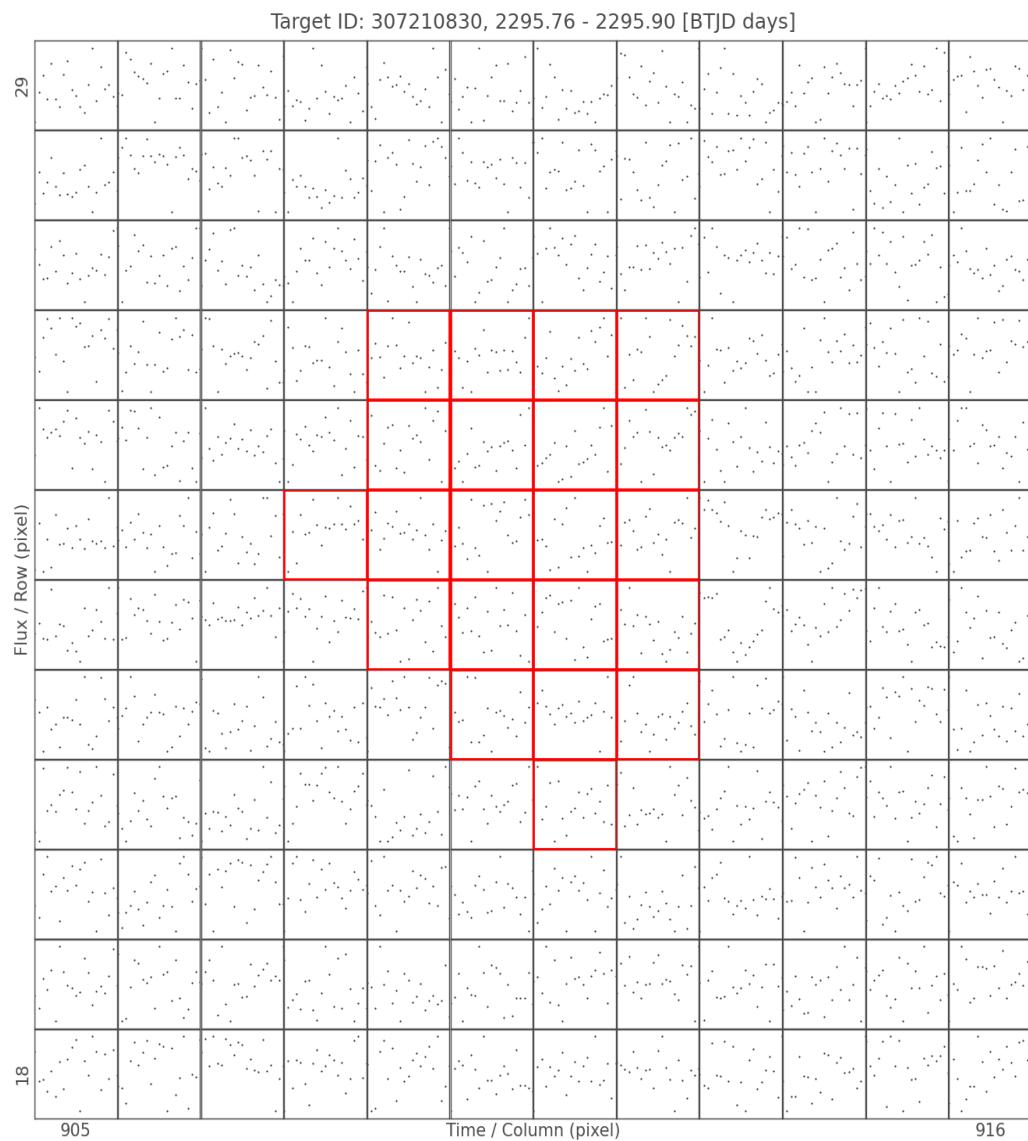
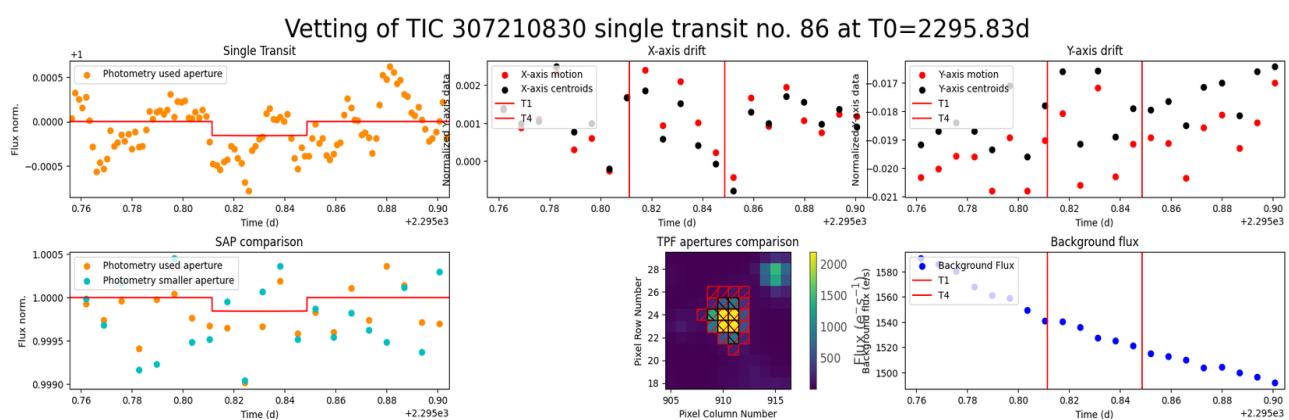


Figure 99: The single transit no. 86 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:59

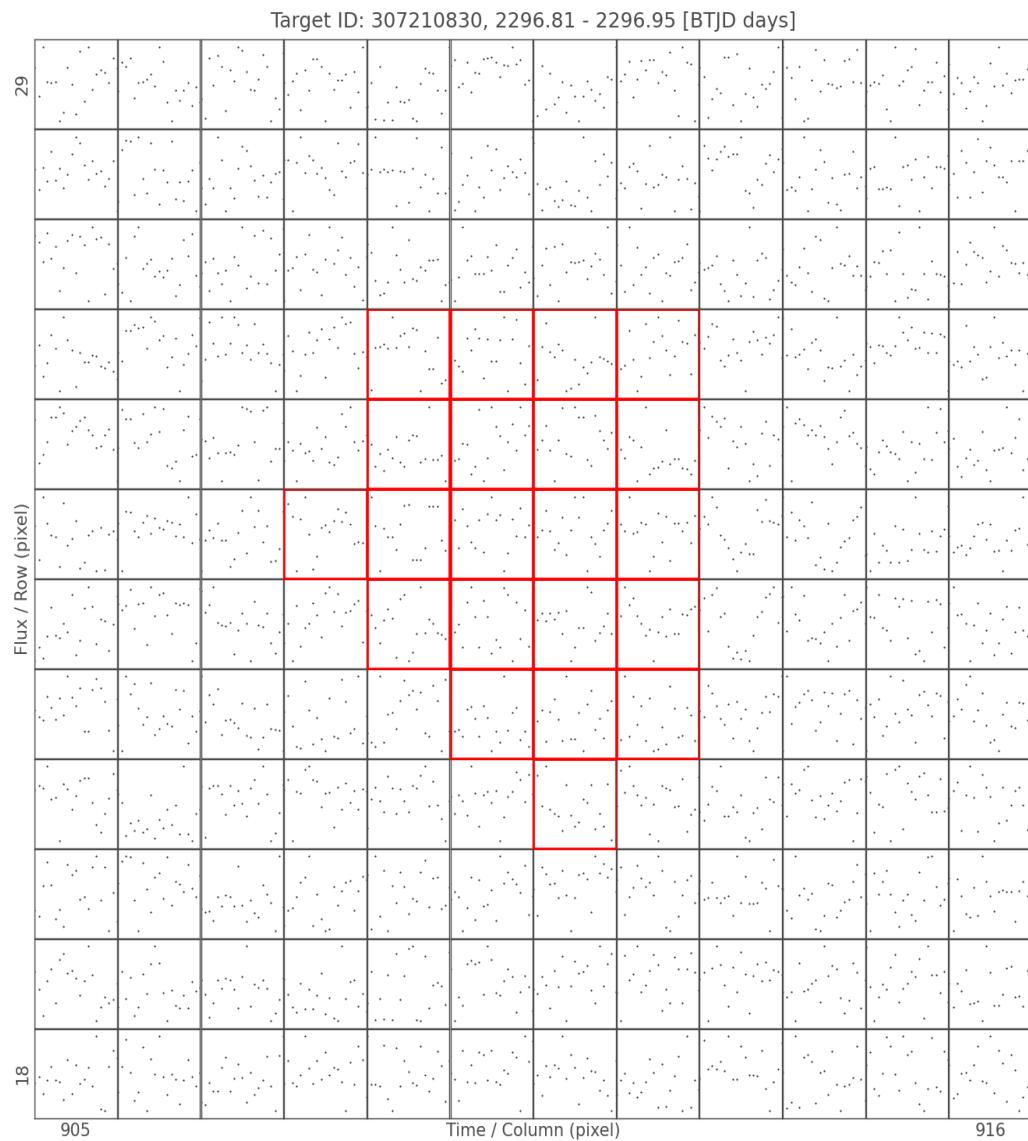
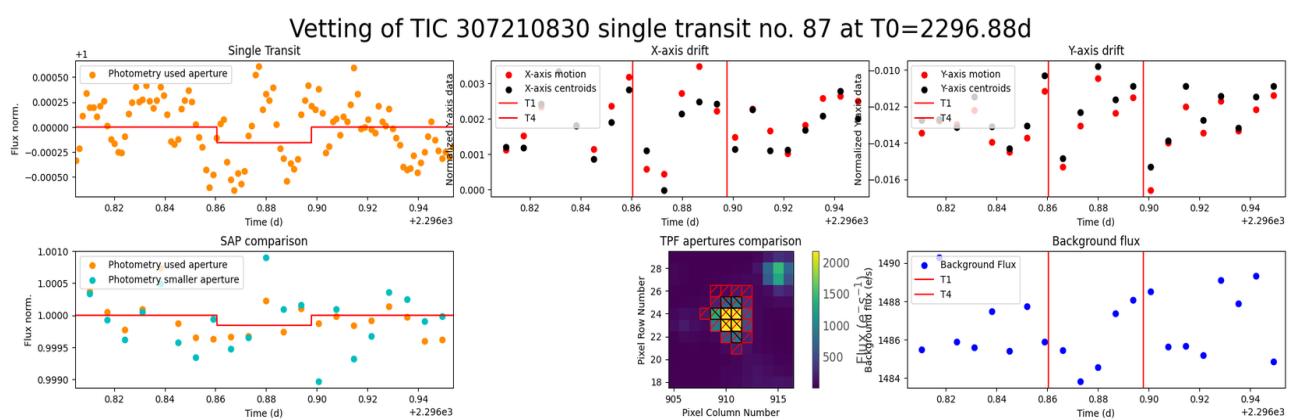
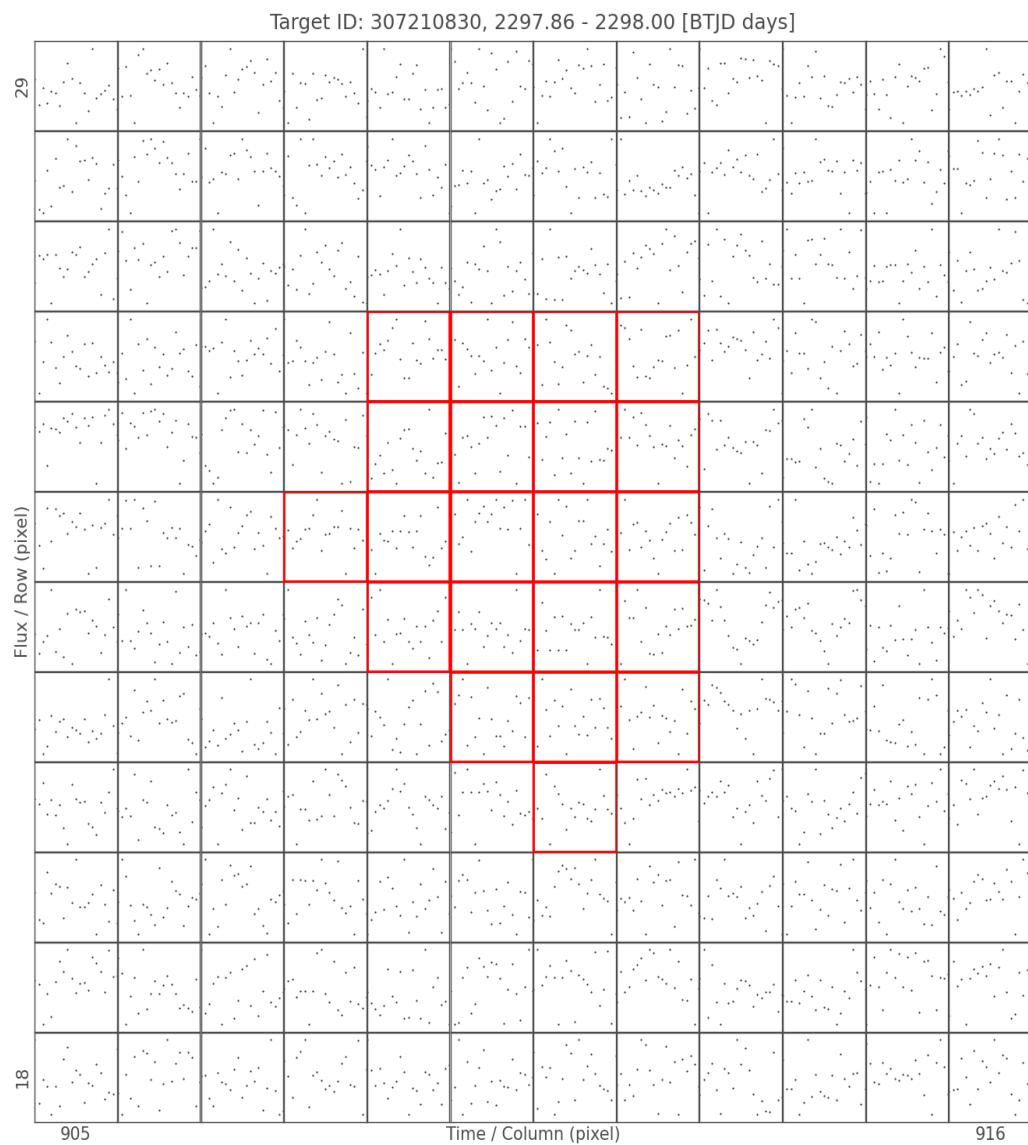
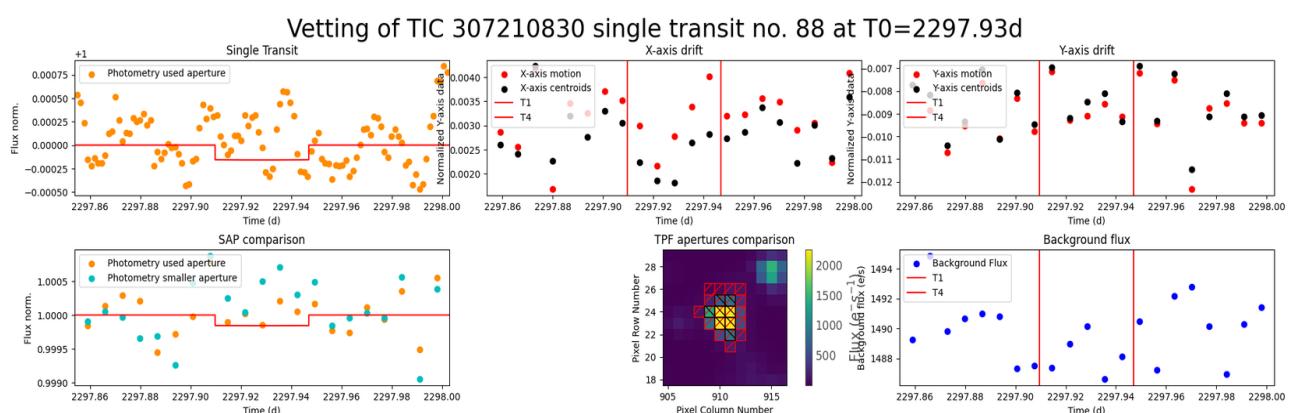


Figure 100: The single transit no. 87 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:59



**Figure 101:** The single transit no. 88 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:03:59

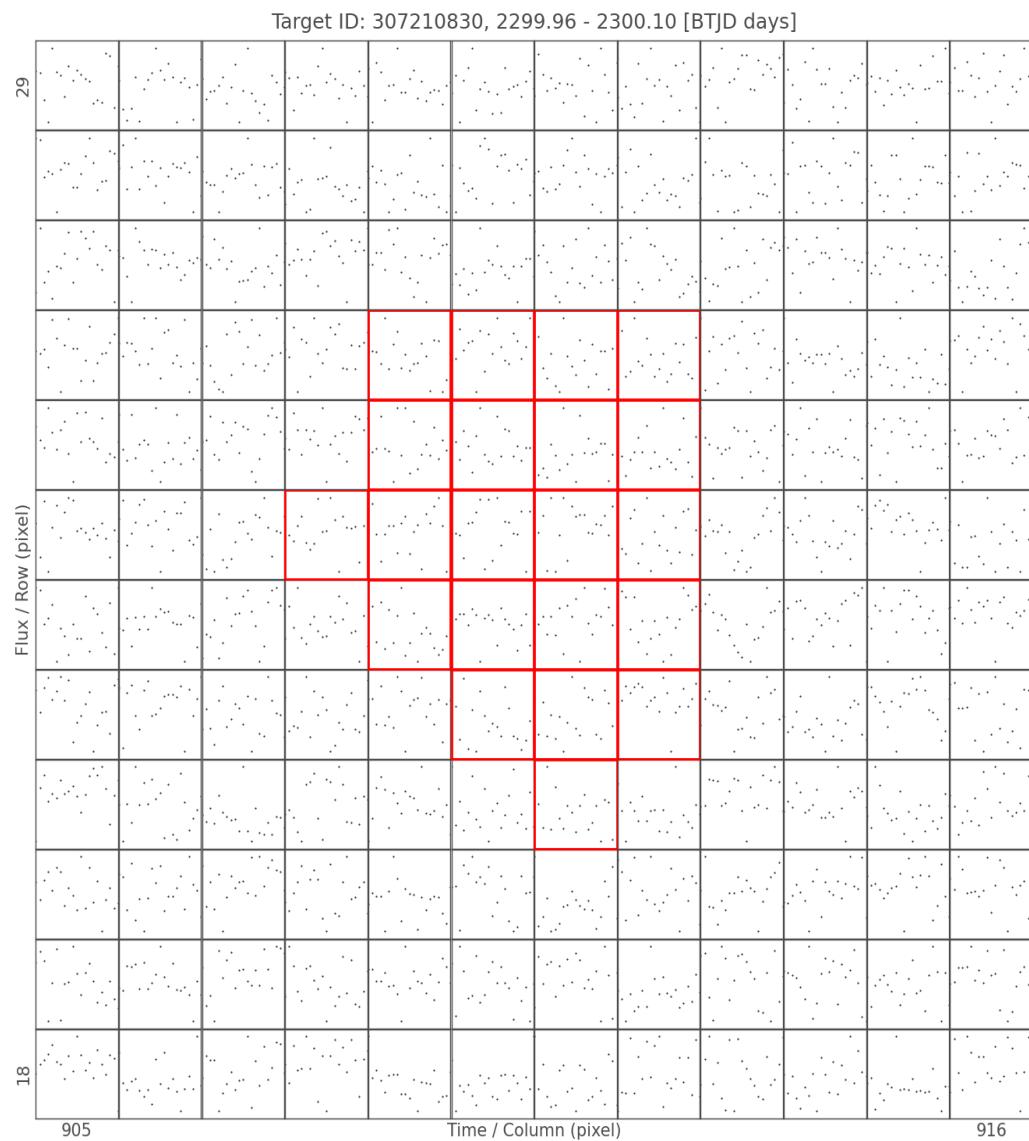
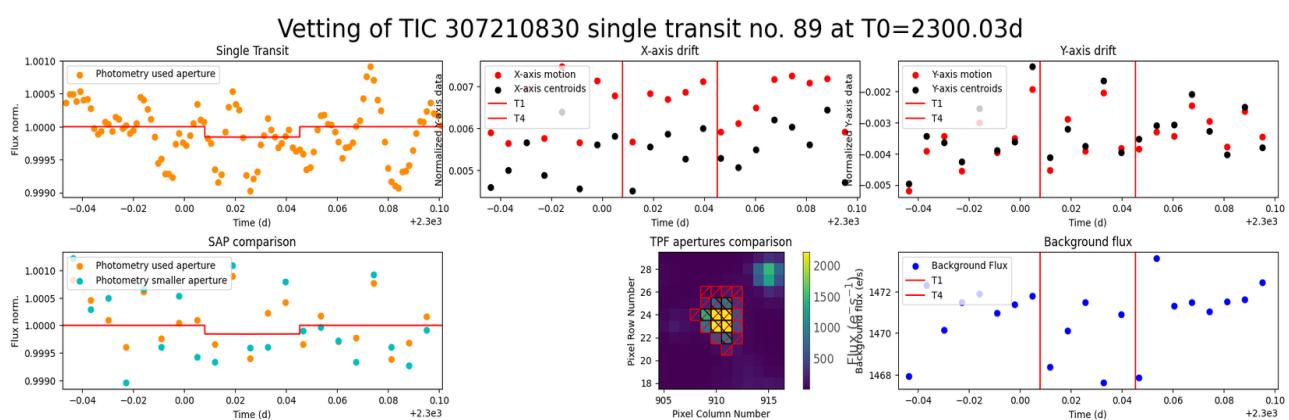
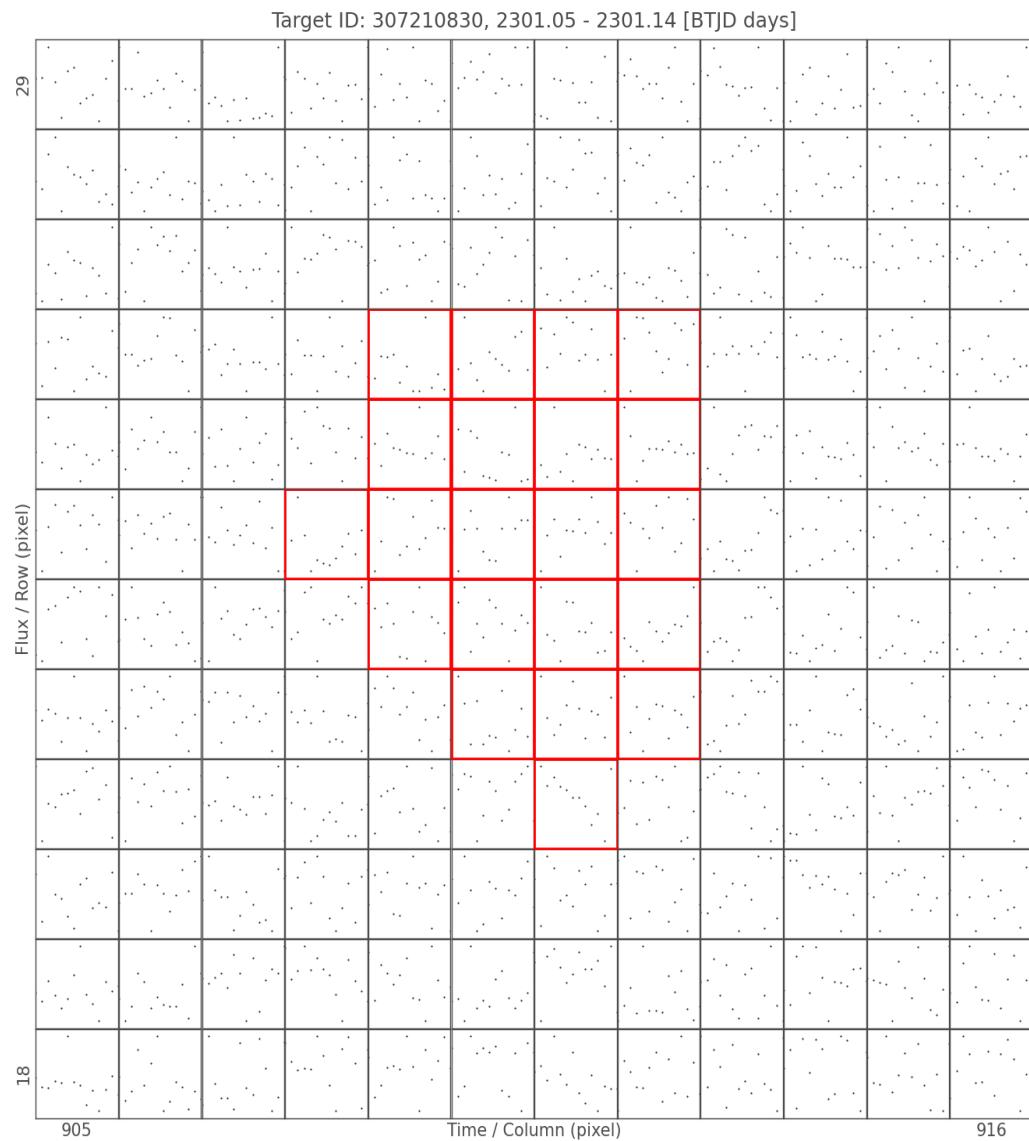
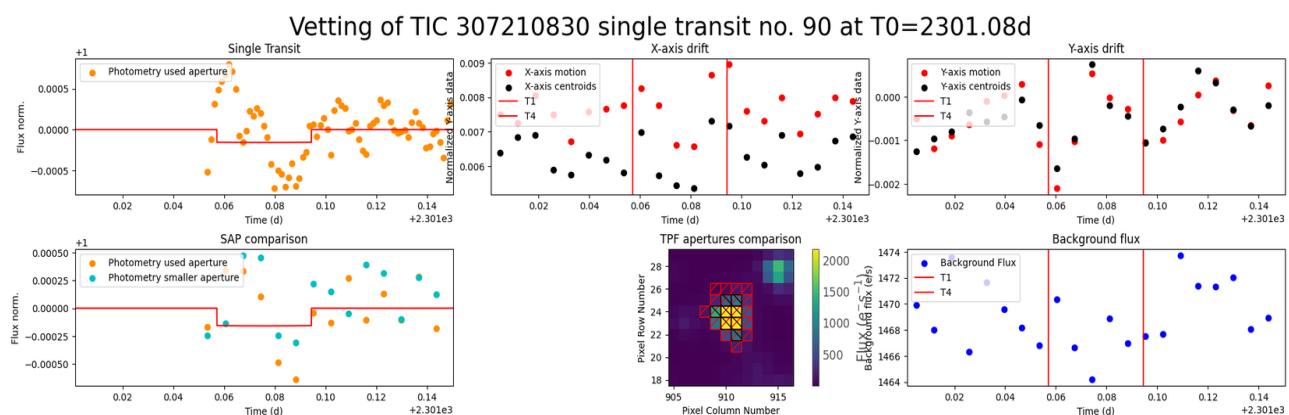


Figure 102: The single transit no. 89 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:00



**Figure 103:** The single transit no. 90 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:00

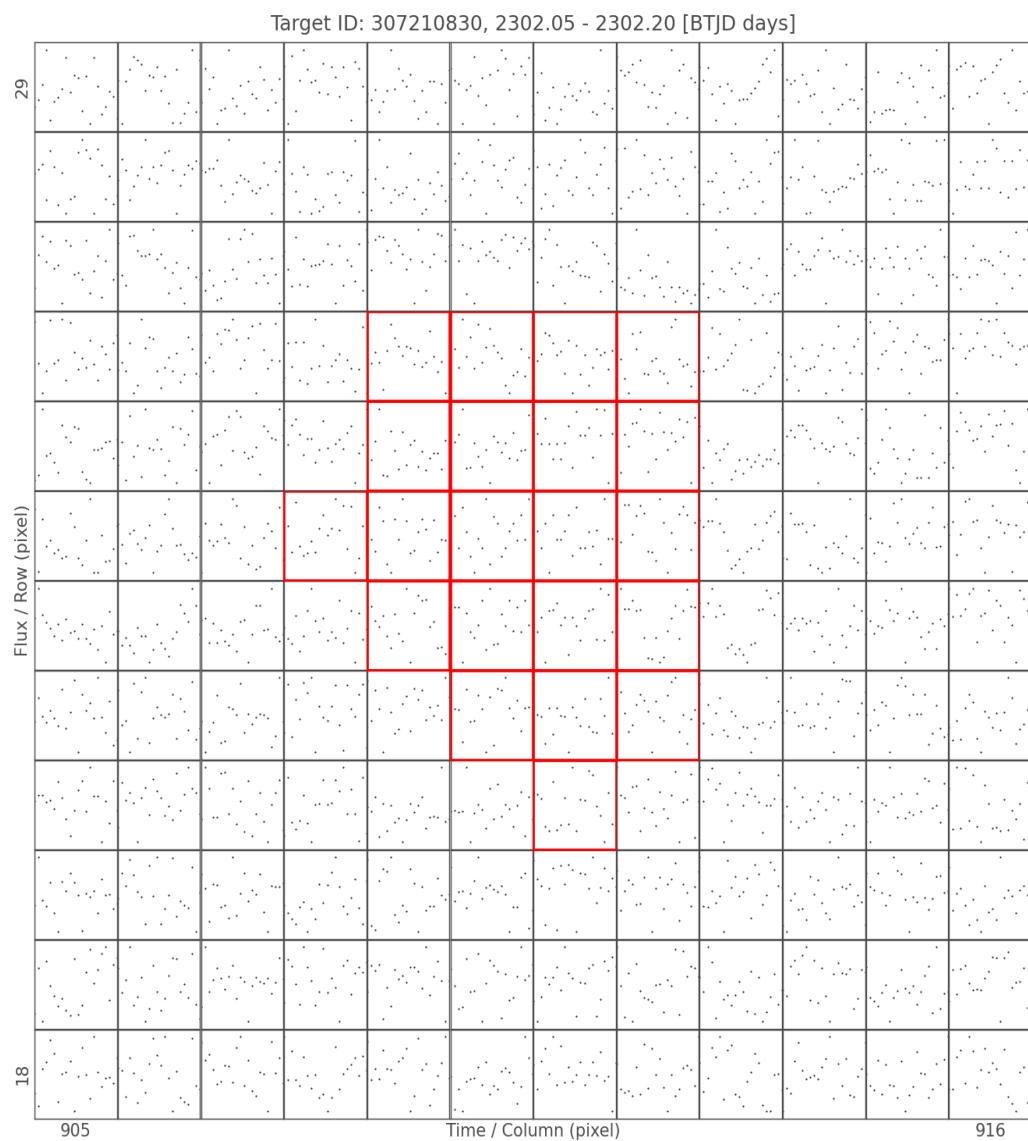
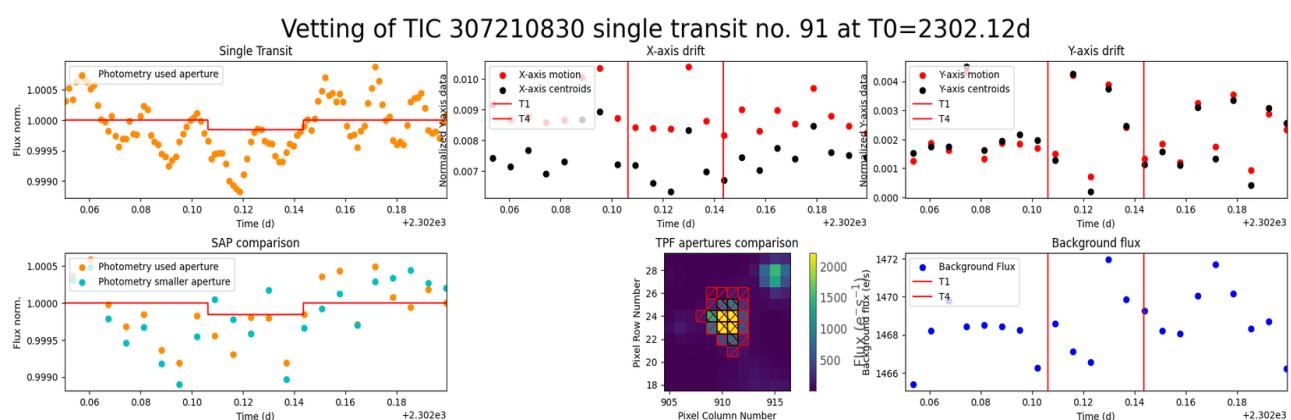


Figure 104: The single transit no. 91 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:00

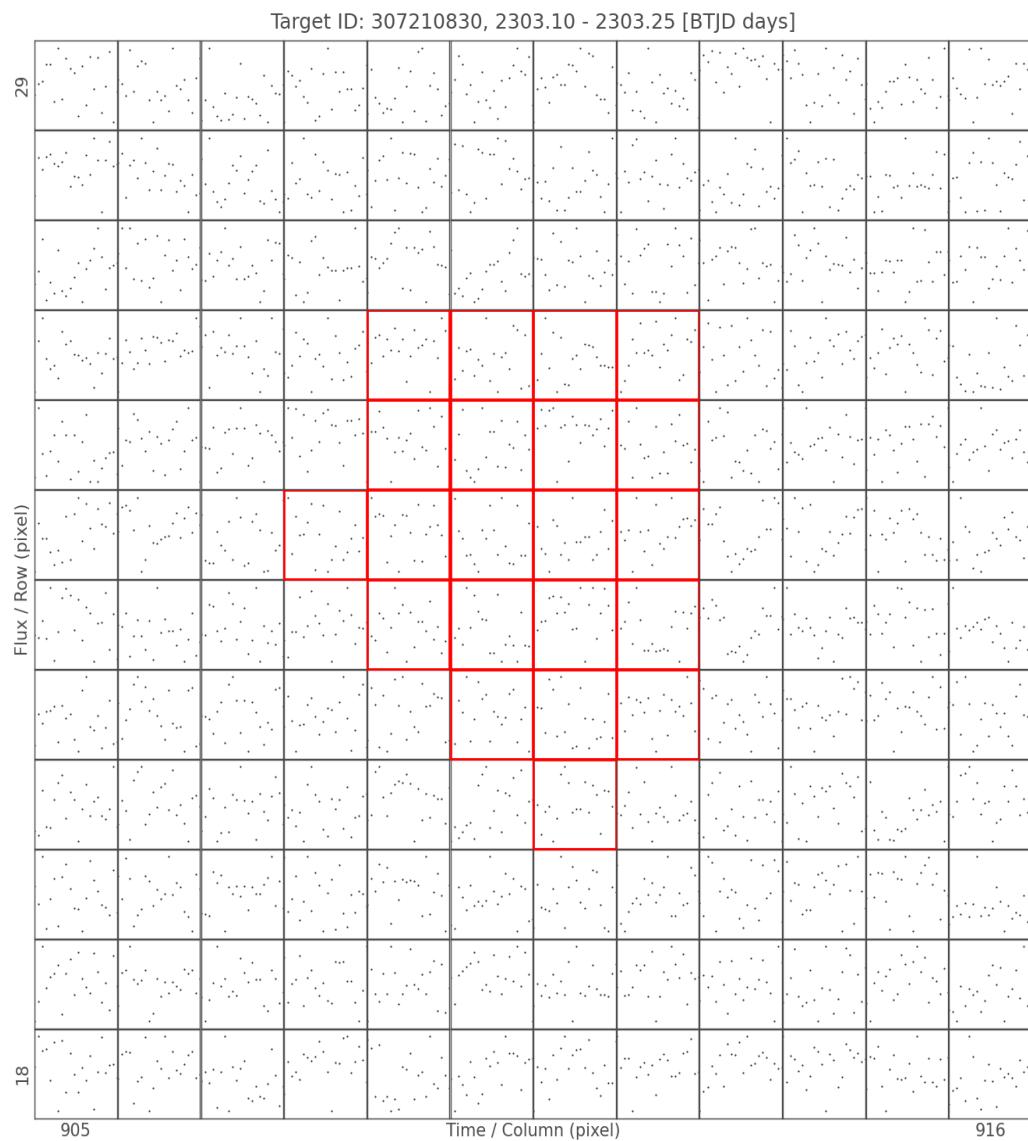
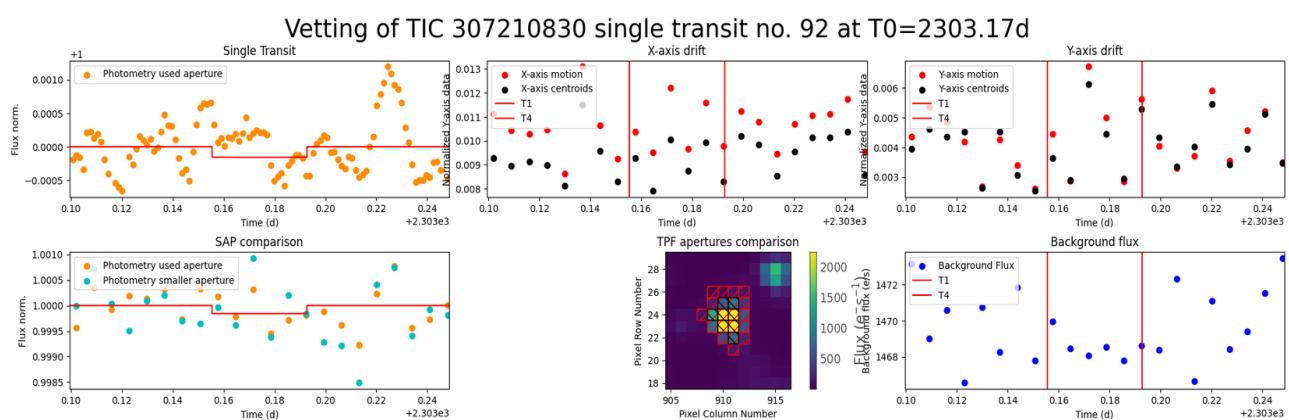
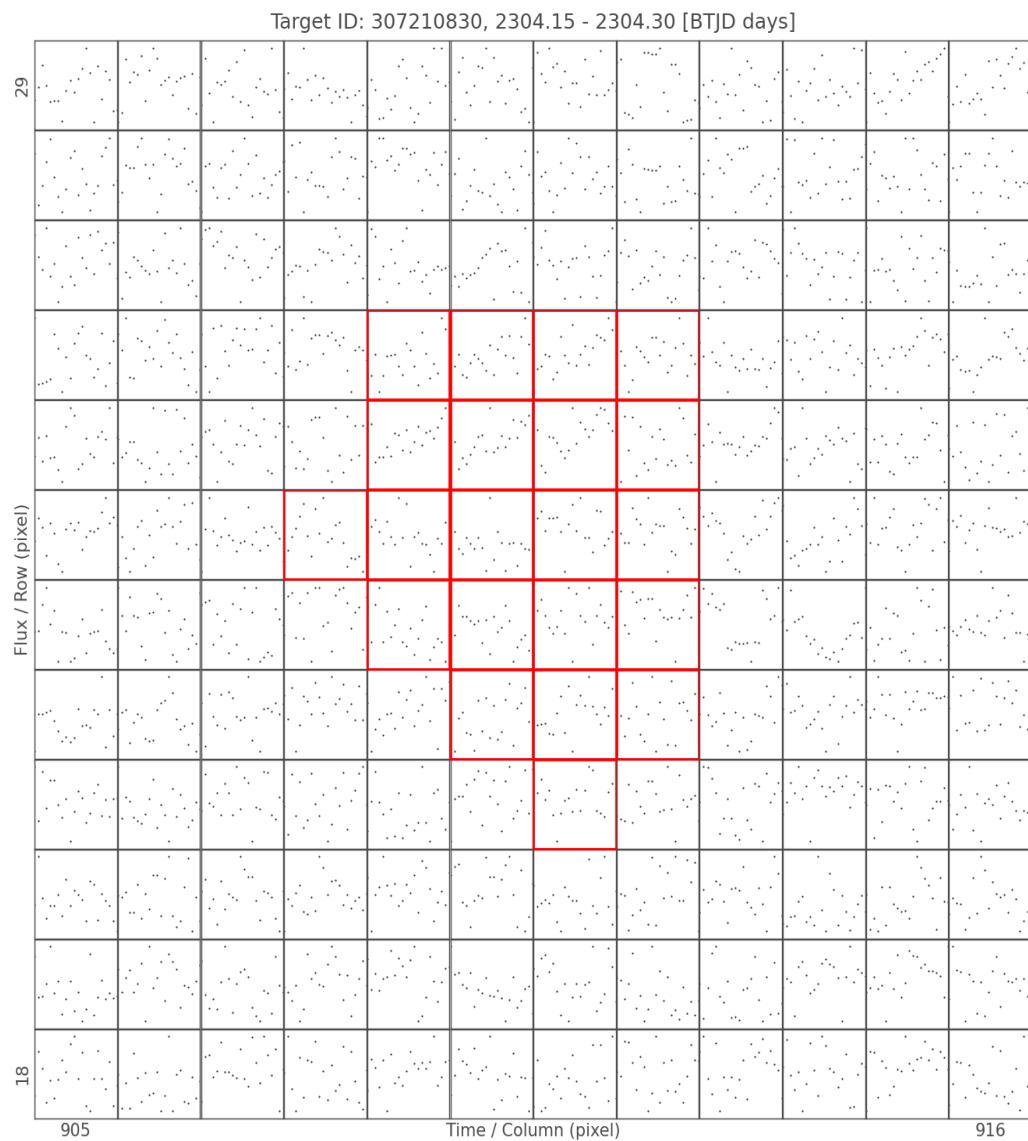
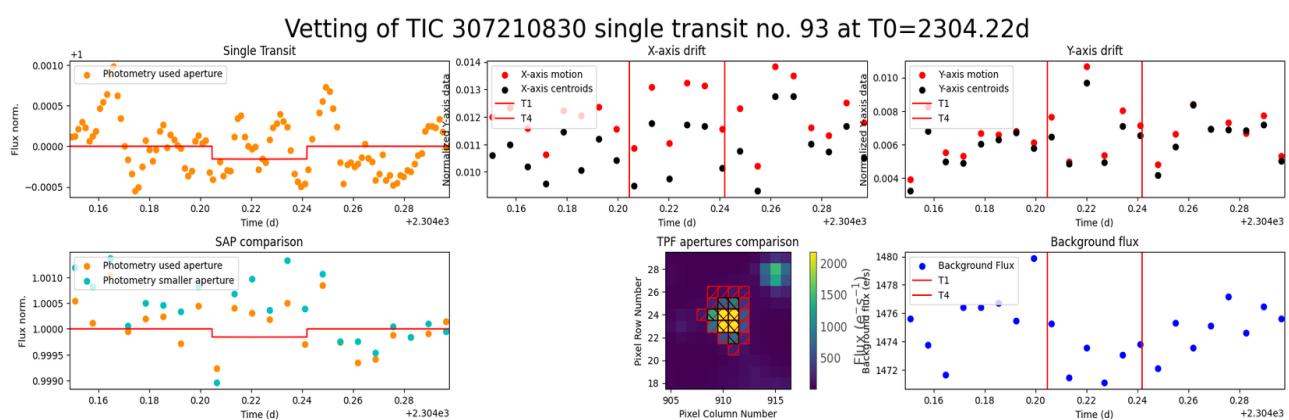


Figure 105: The single transit no. 92 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:00

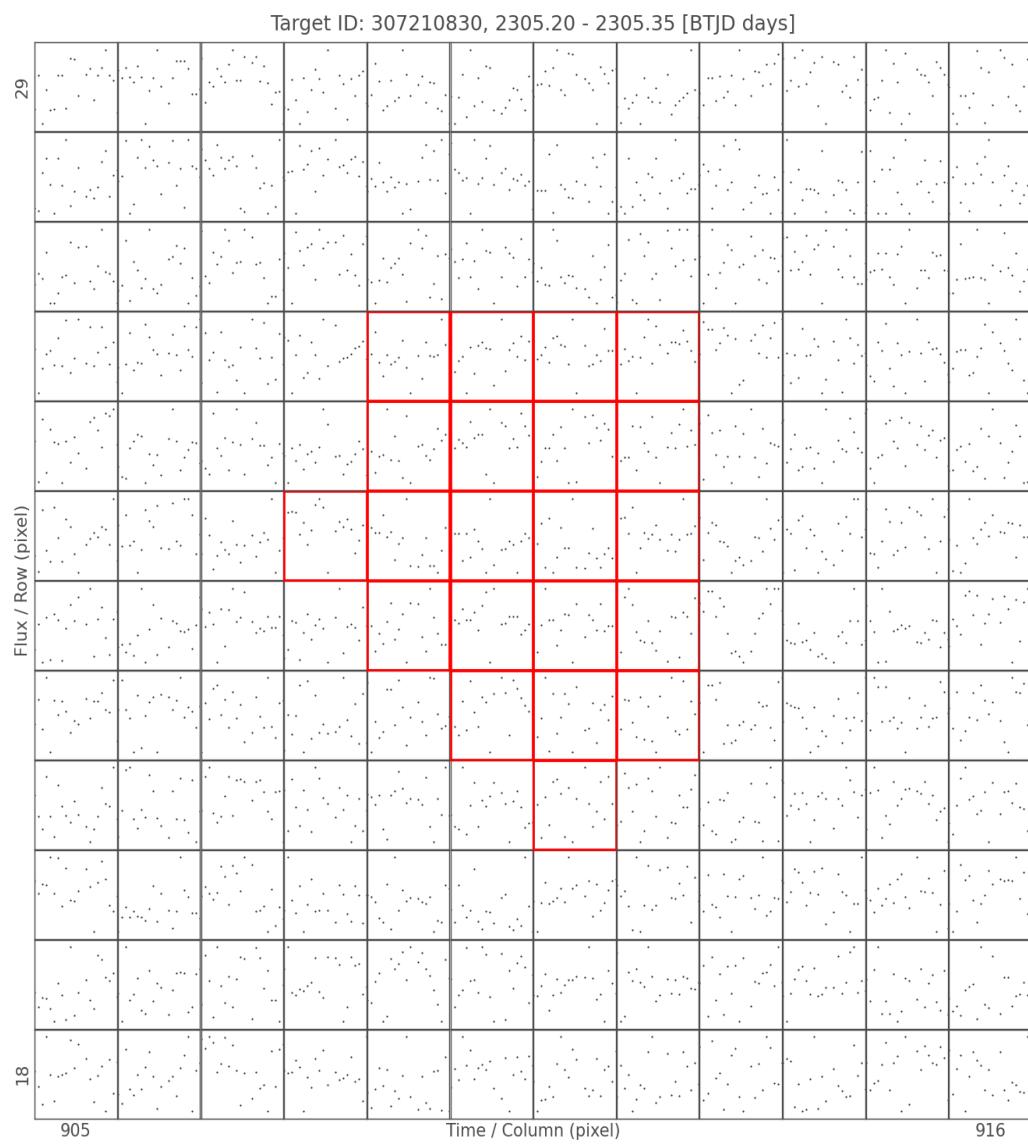
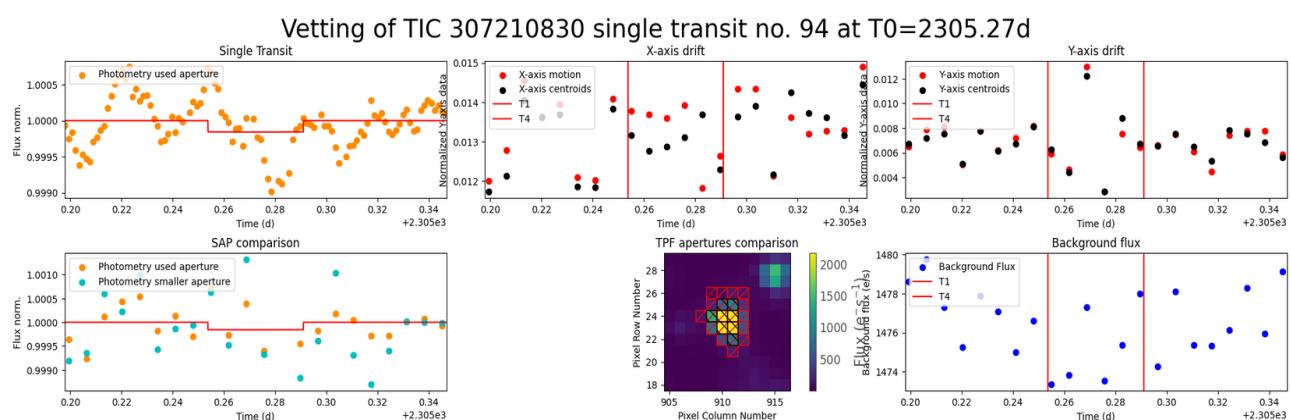


**Figure 106:** The single transit no. 93 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:00



**Figure 107:** The single transit no. 94 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:01

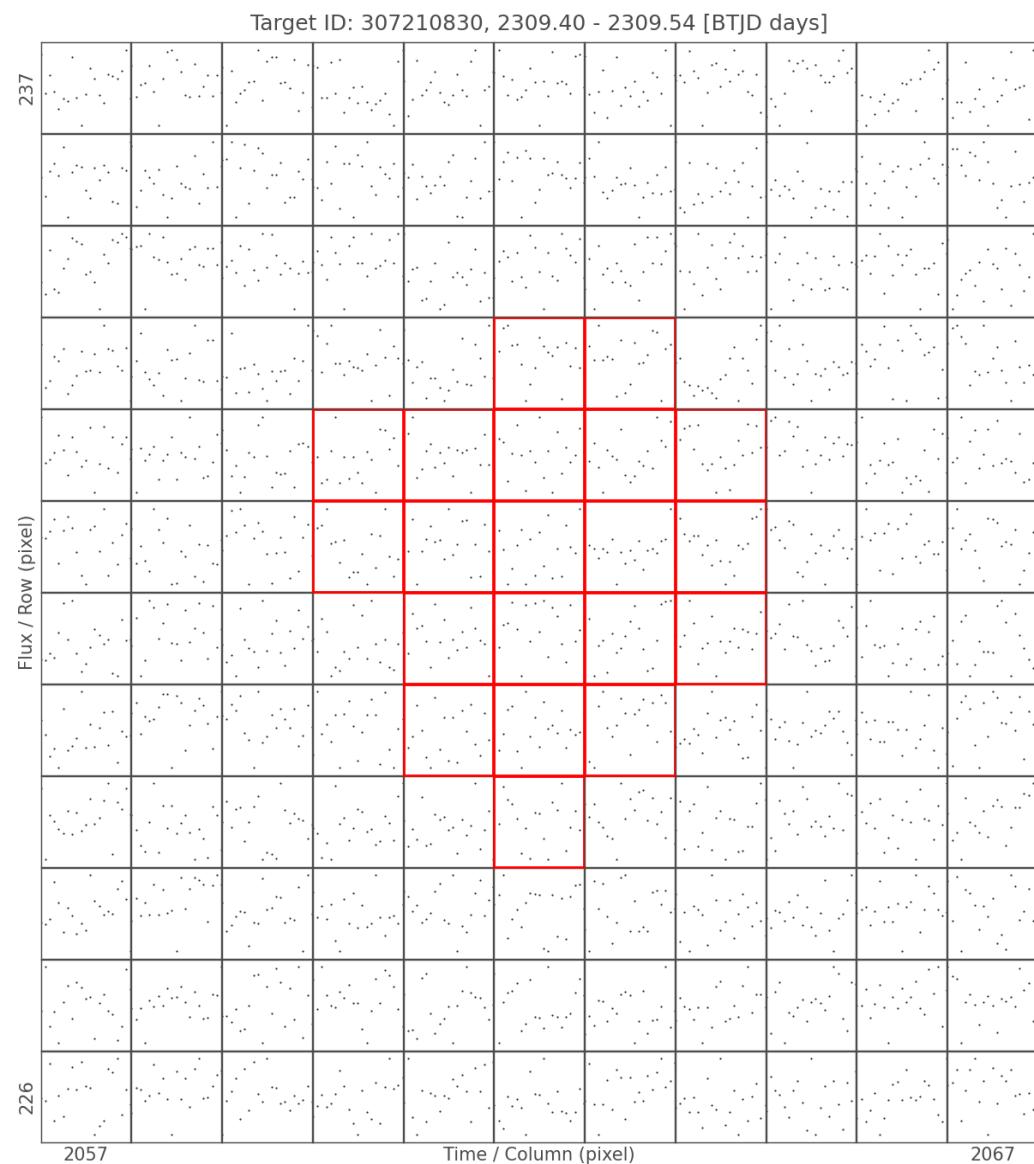
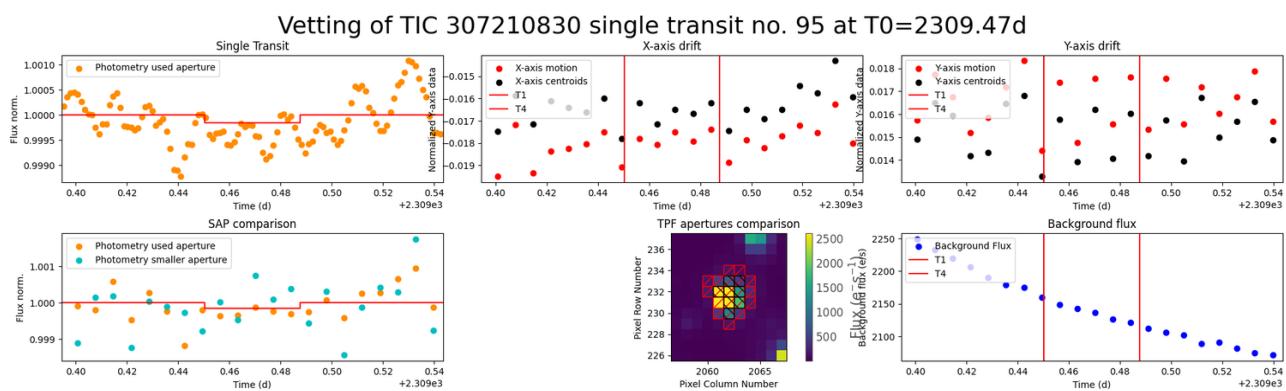
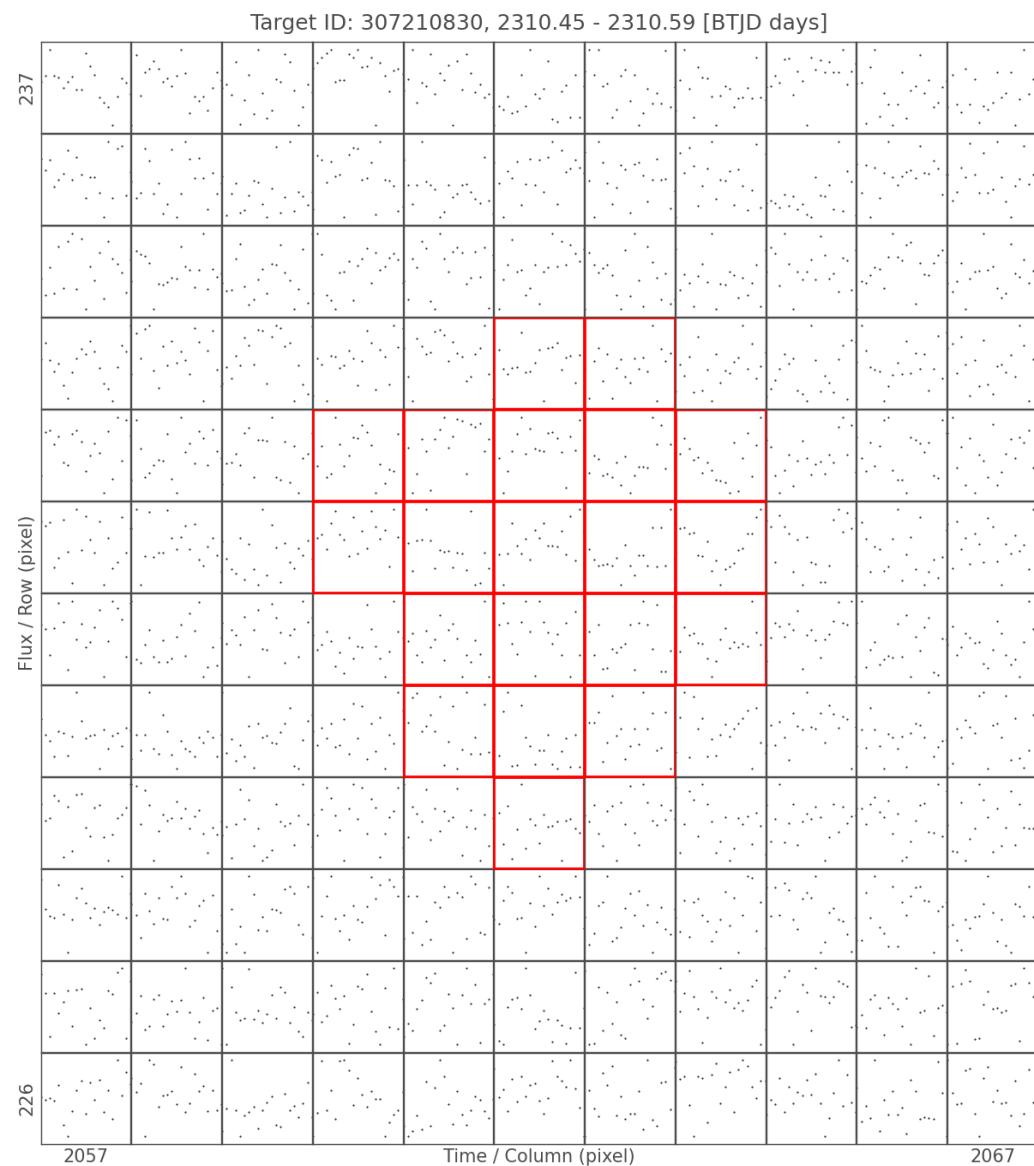
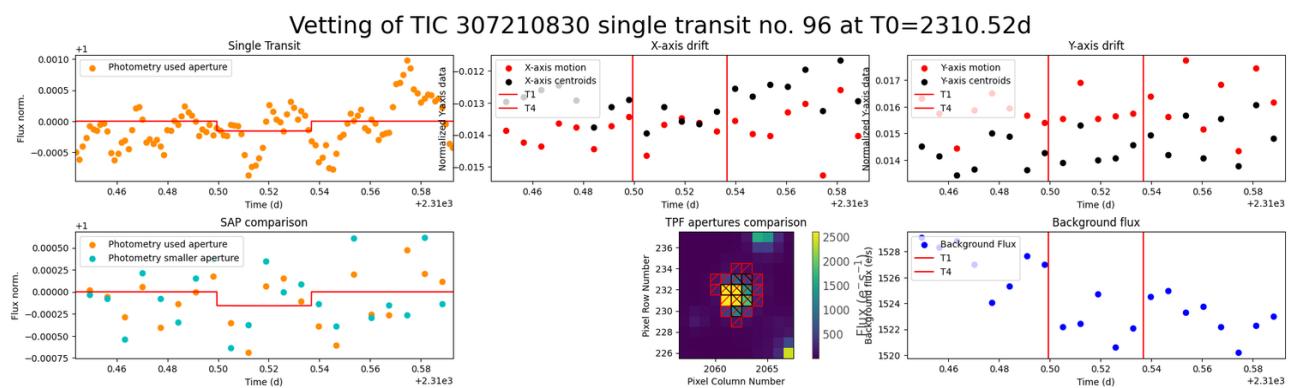


Figure 108: The single transit no. 95 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:01

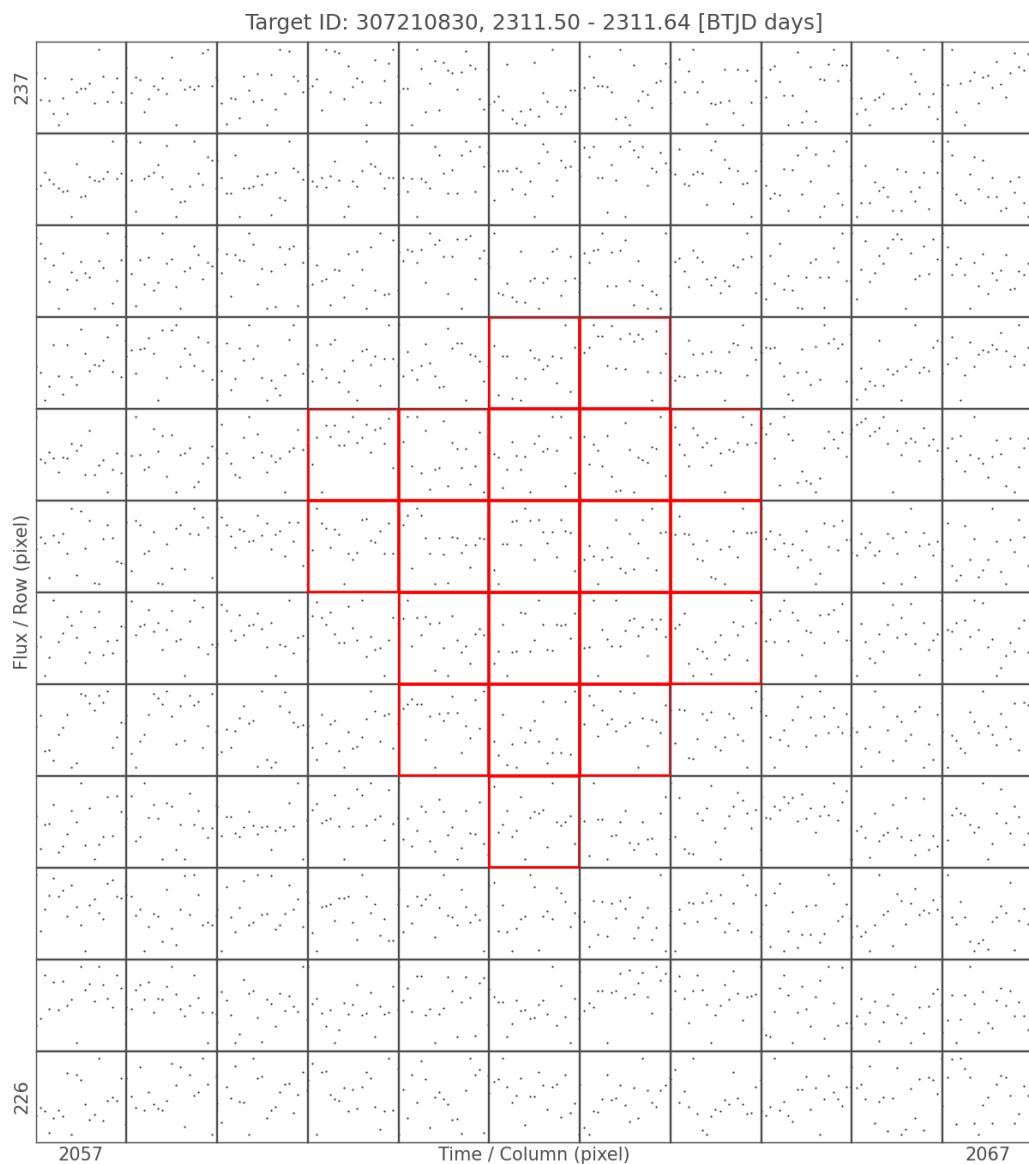
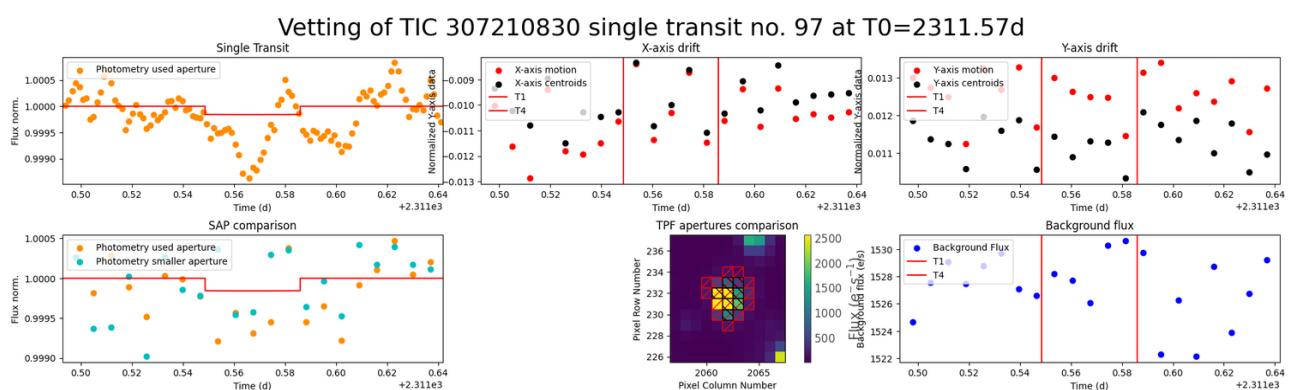


**Figure 109:** The single transit no. 96 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:01



**Figure 110:** The single transit no. 97 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:01

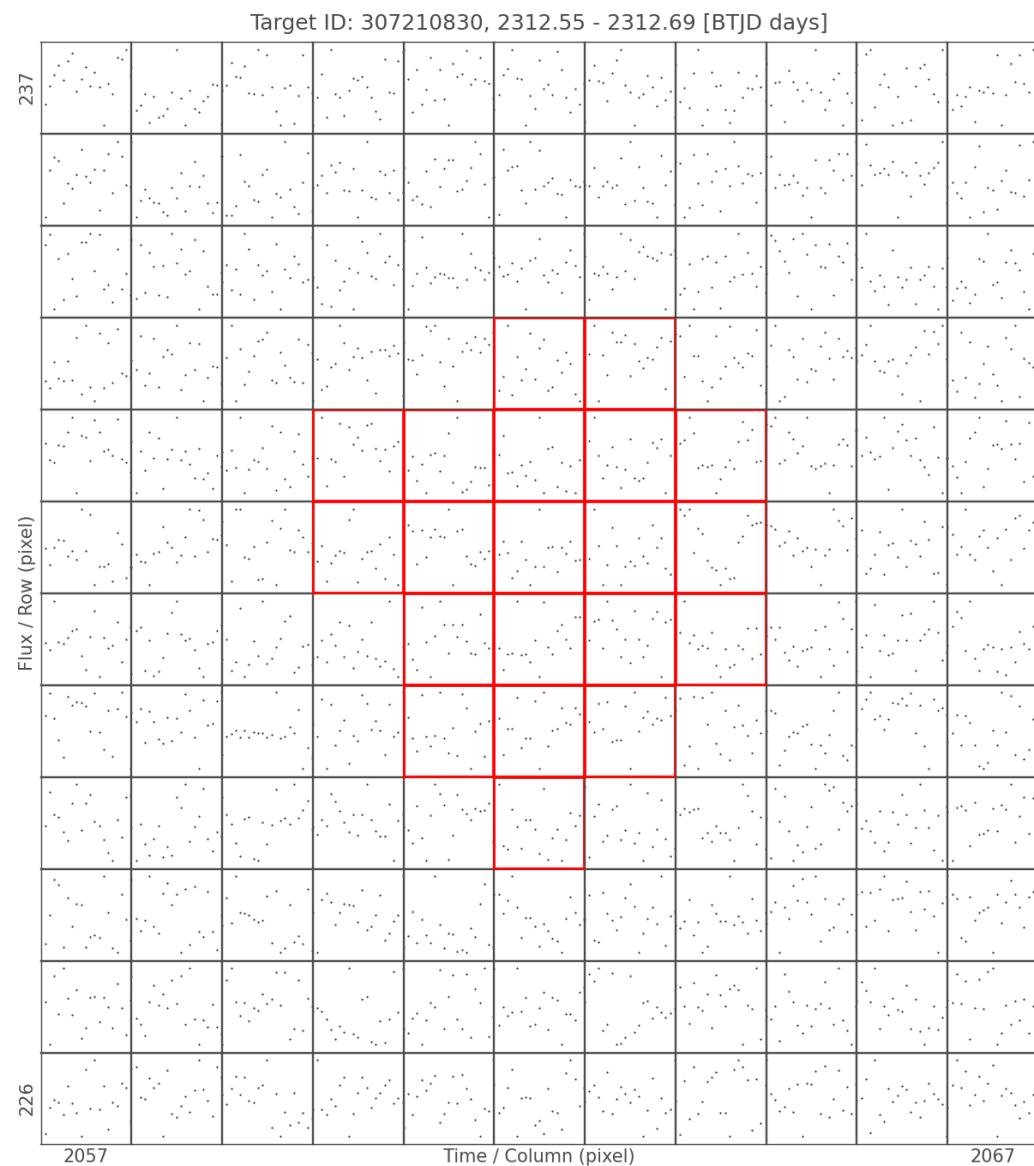
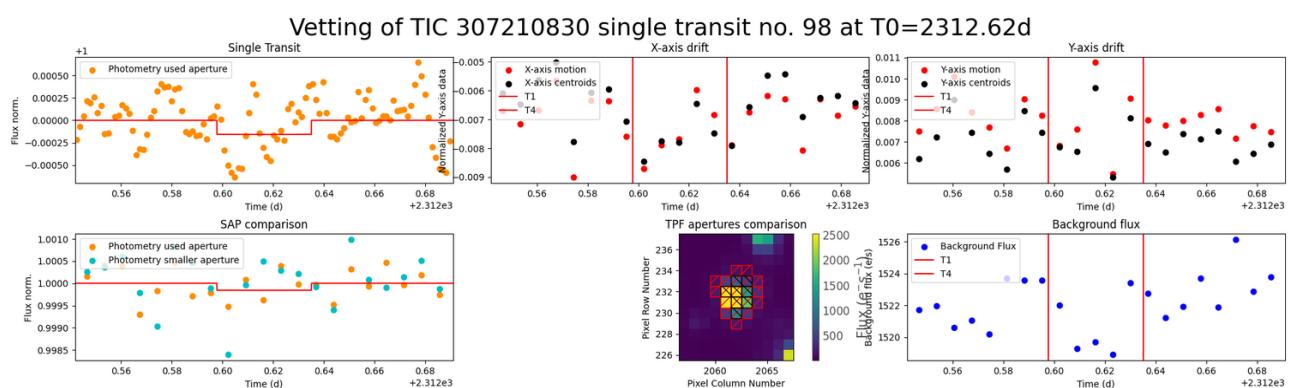
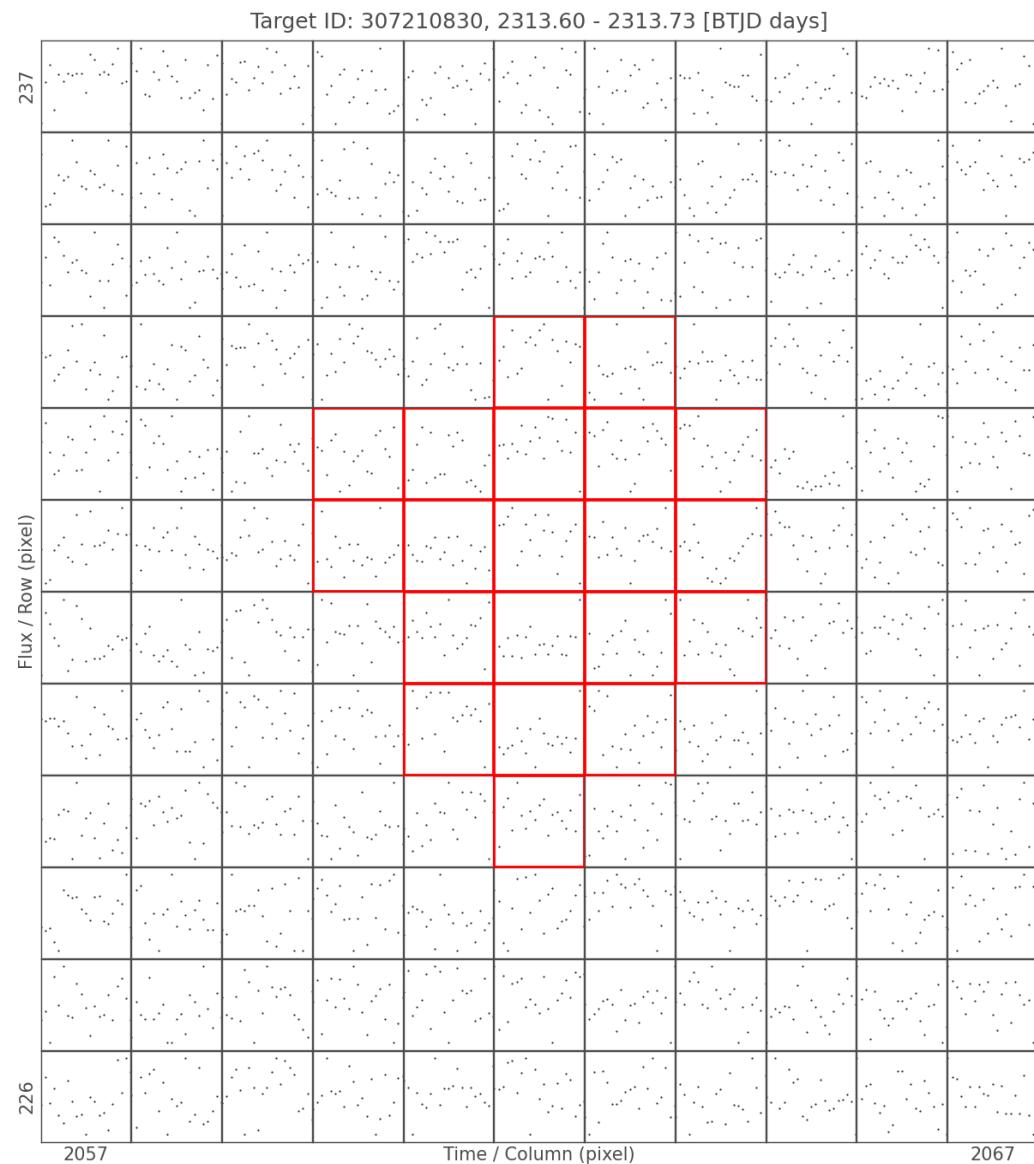
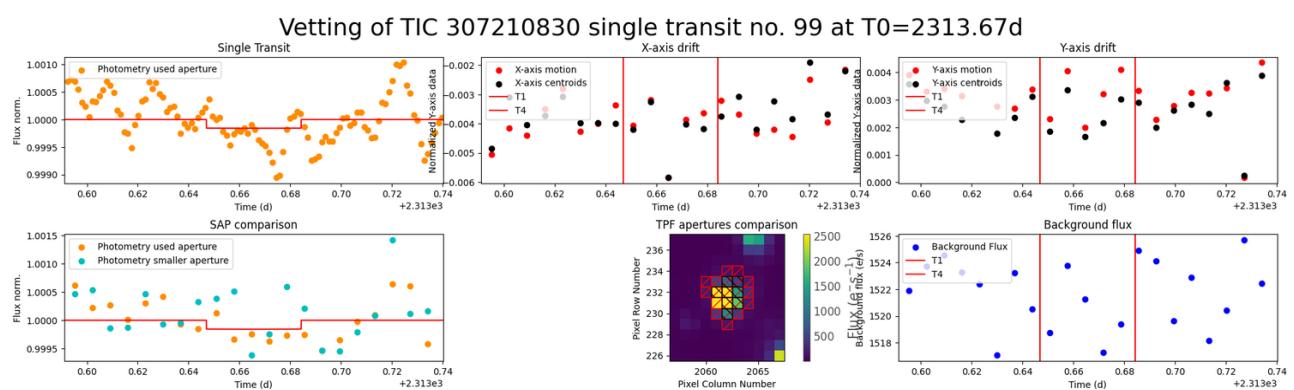


Figure 111: The single transit no. 98 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:01



**Figure 112:** The single transit no. 99 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:02

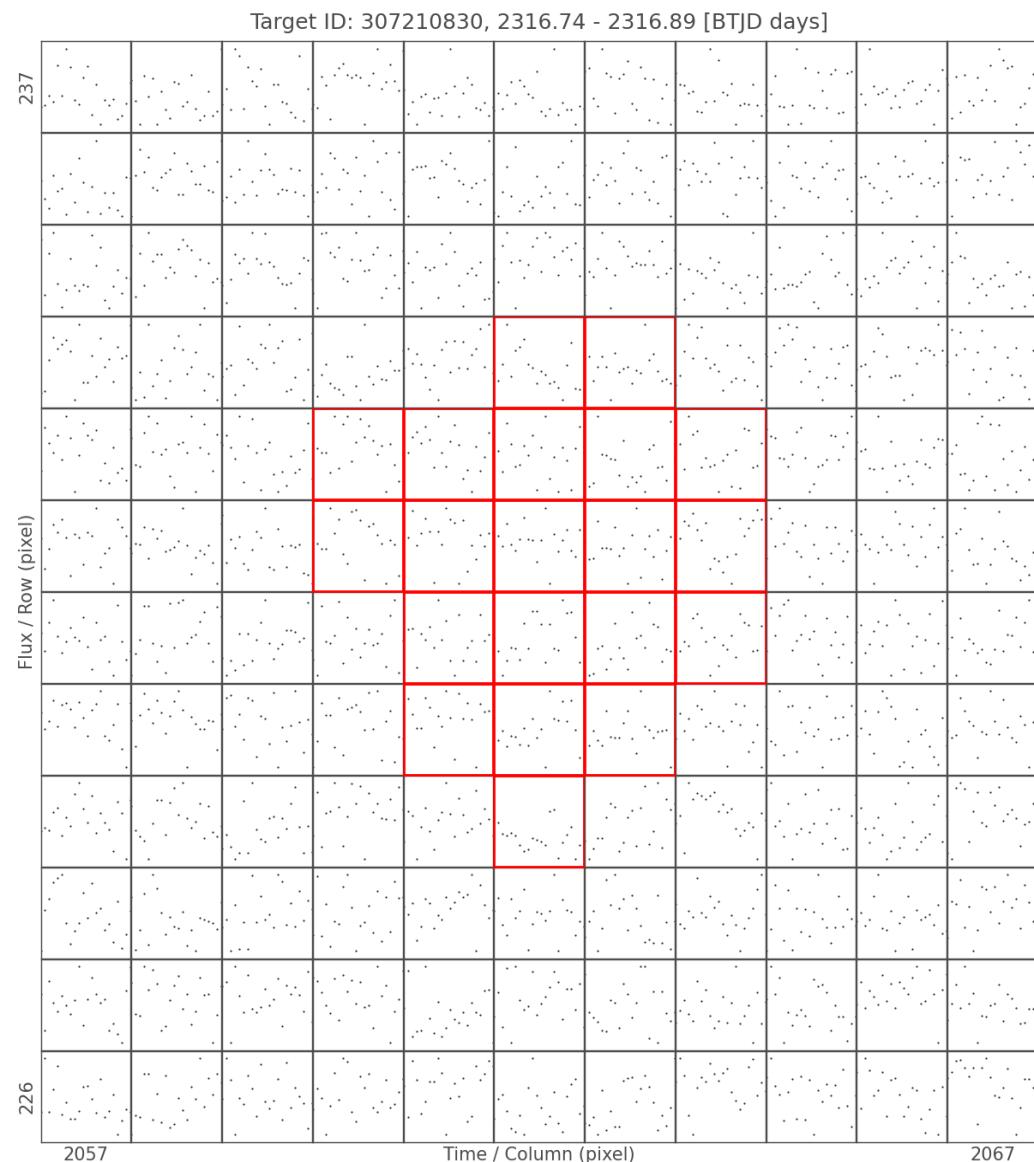
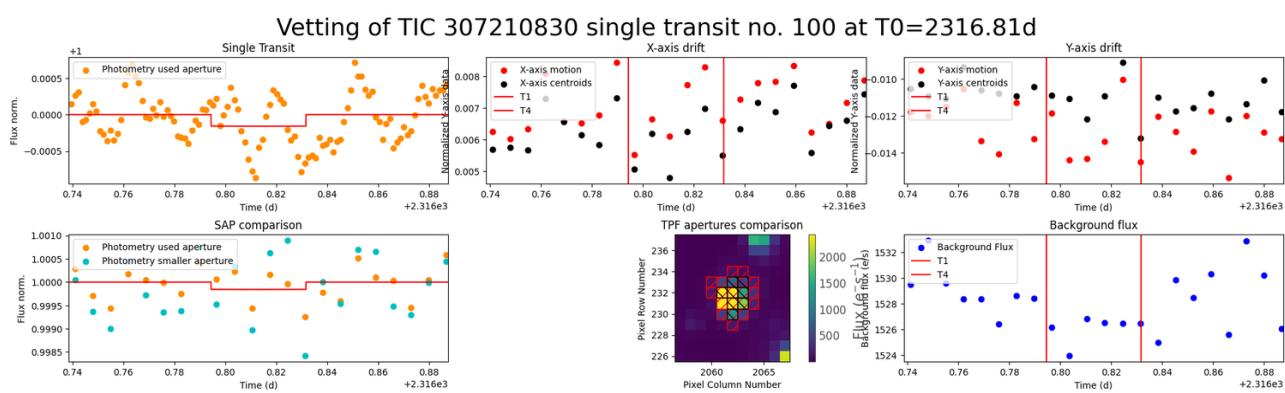


Figure 113: The single transit no. 100 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:02

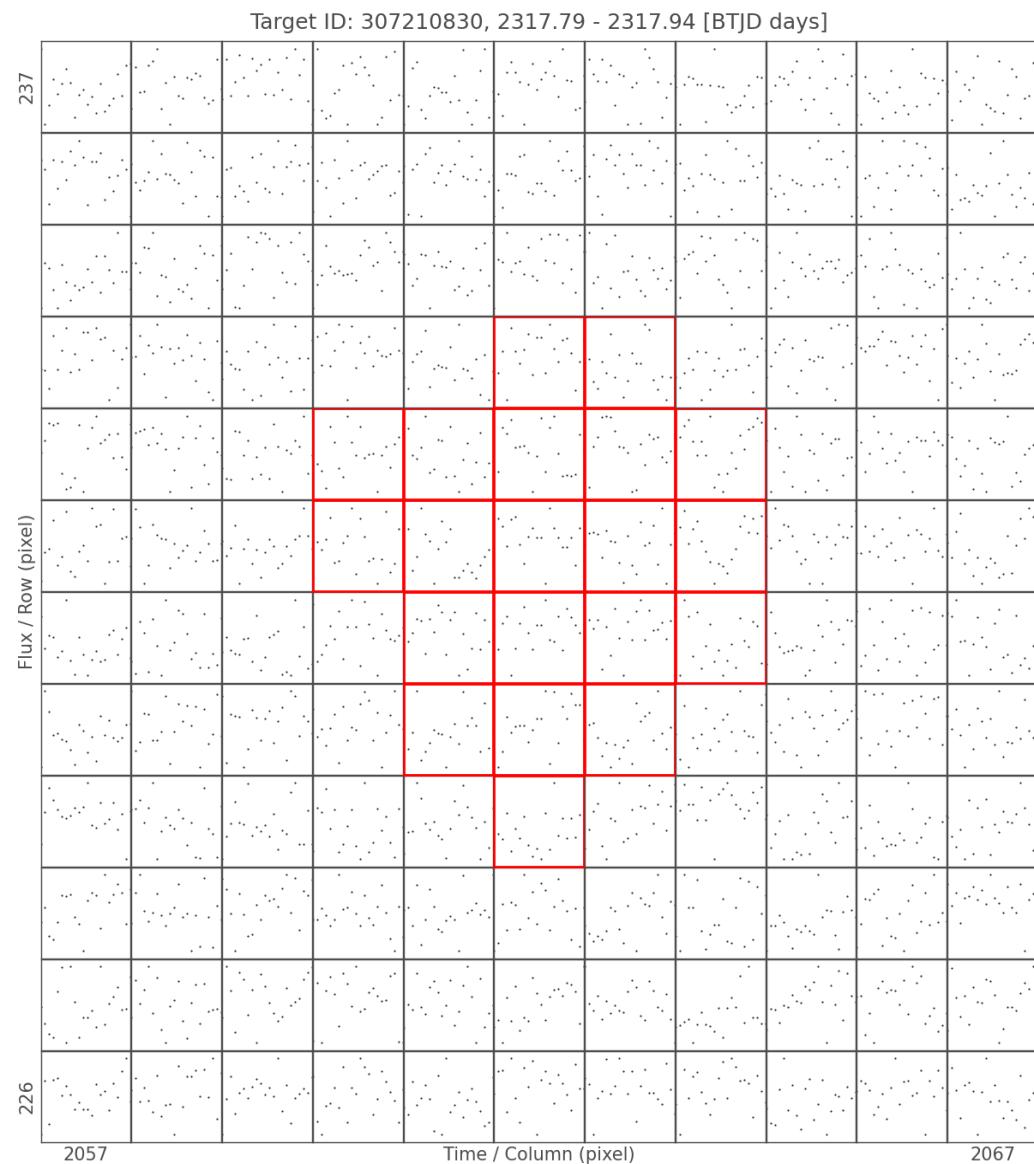
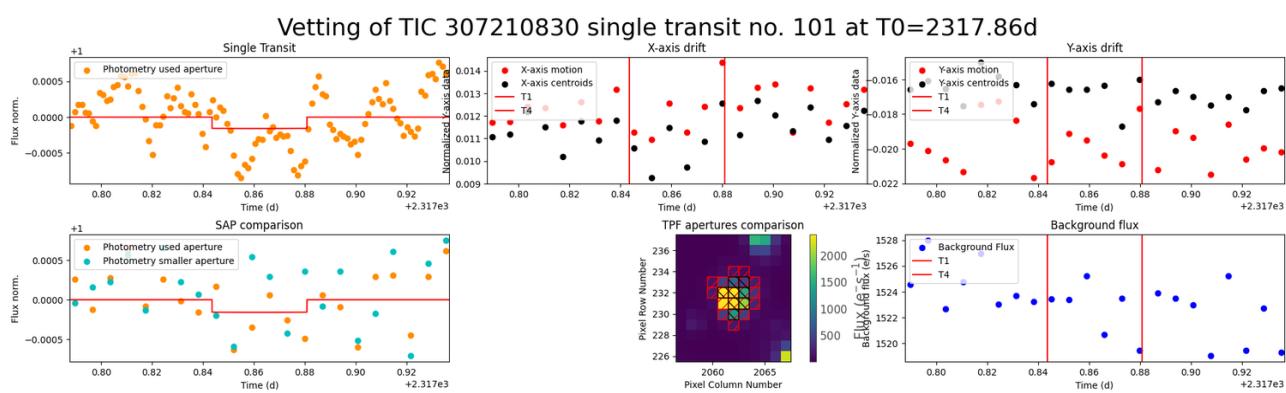


Figure 114: The single transit no. 101 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:02

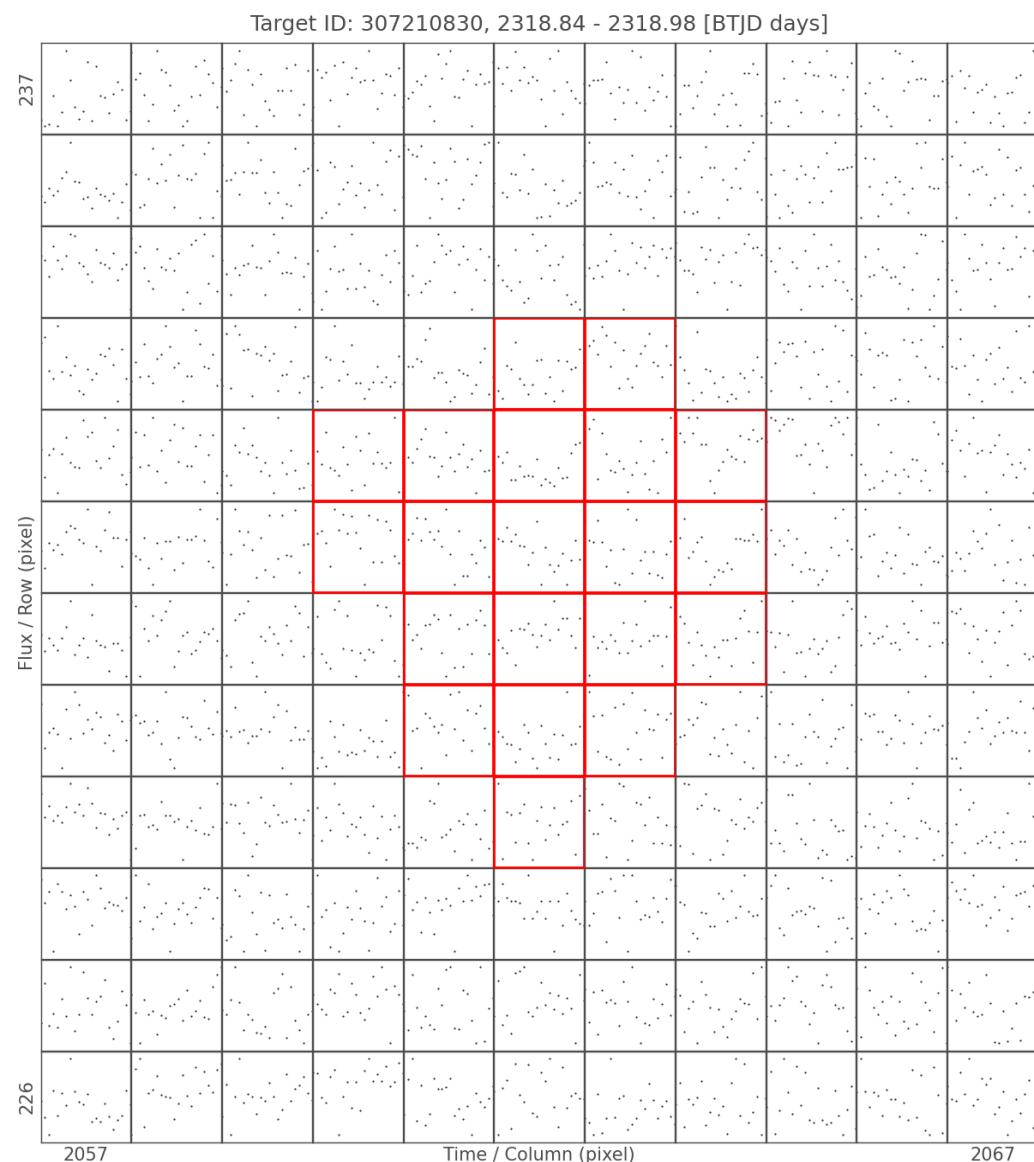
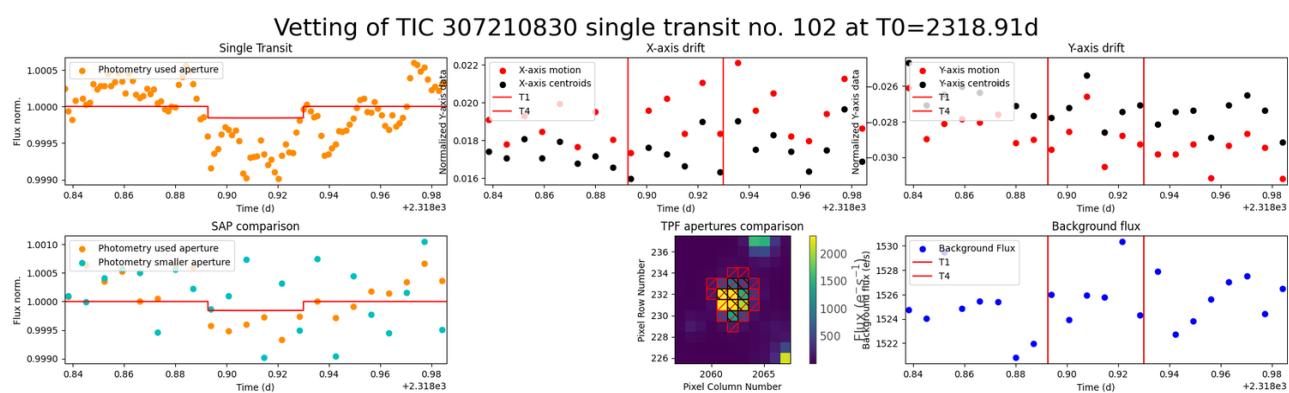
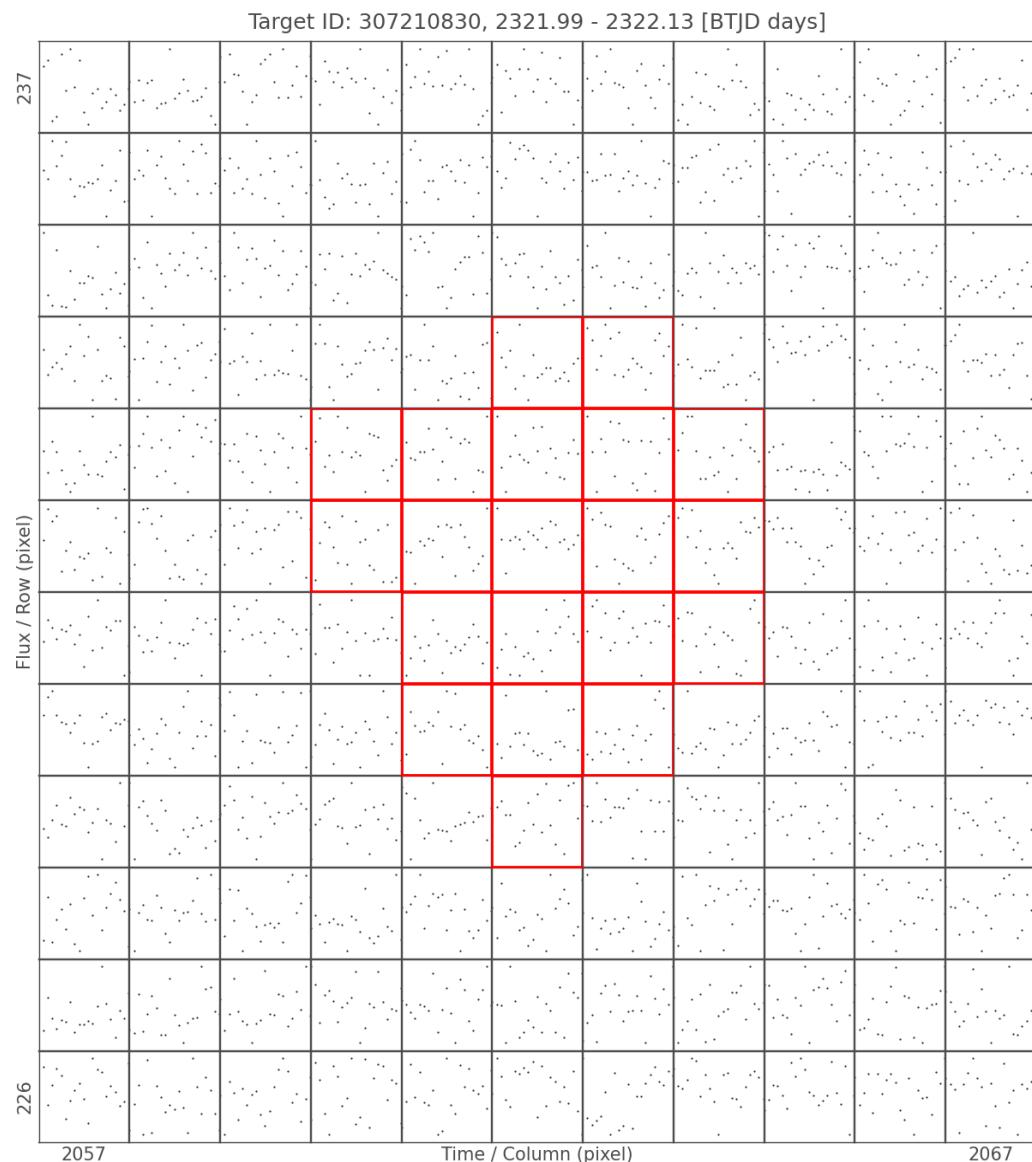
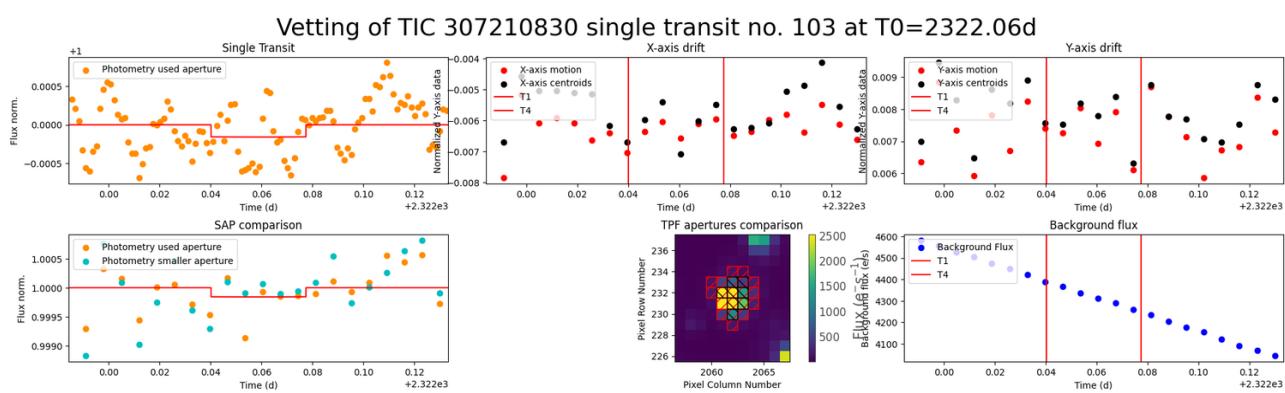


Figure 115: The single transit no. 102 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:02

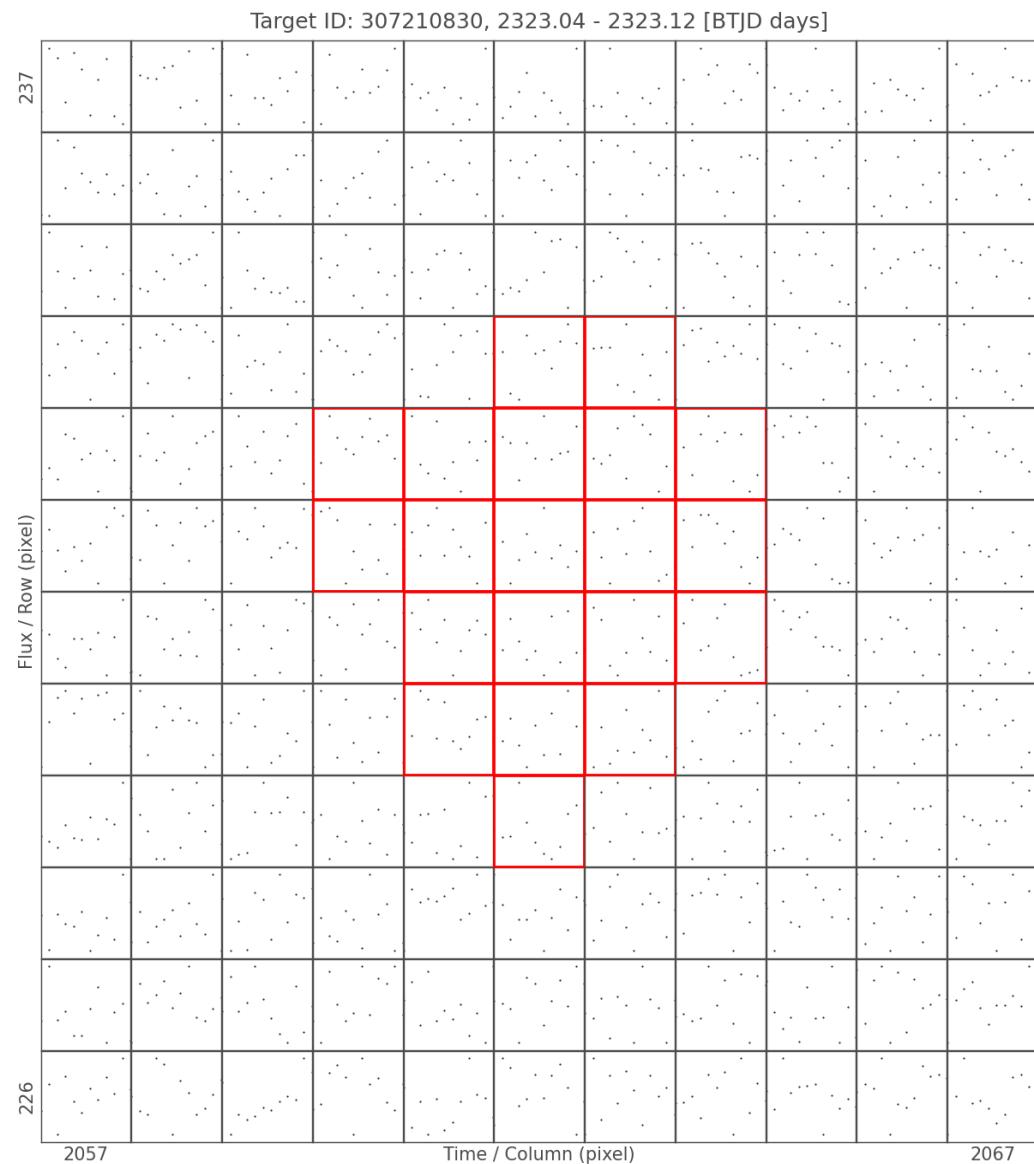
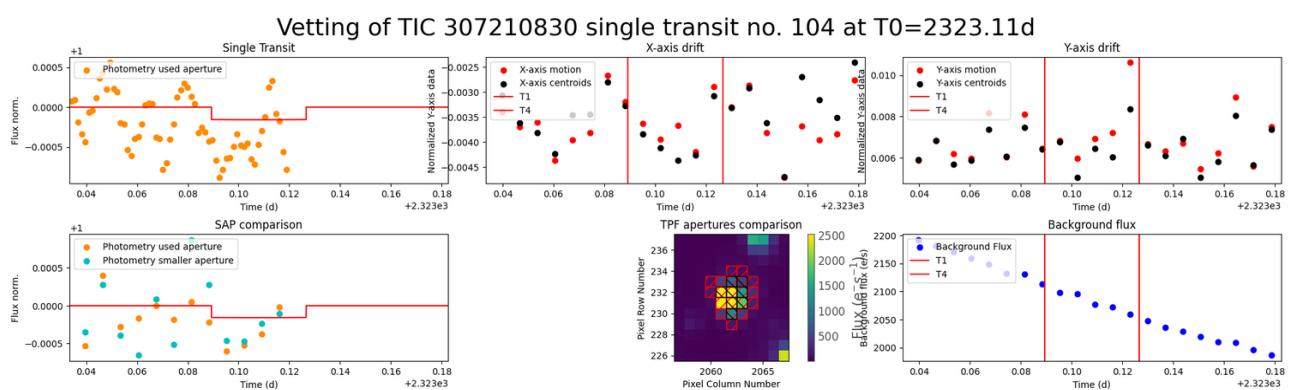


**Figure 116:** The single transit no. 103 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:02

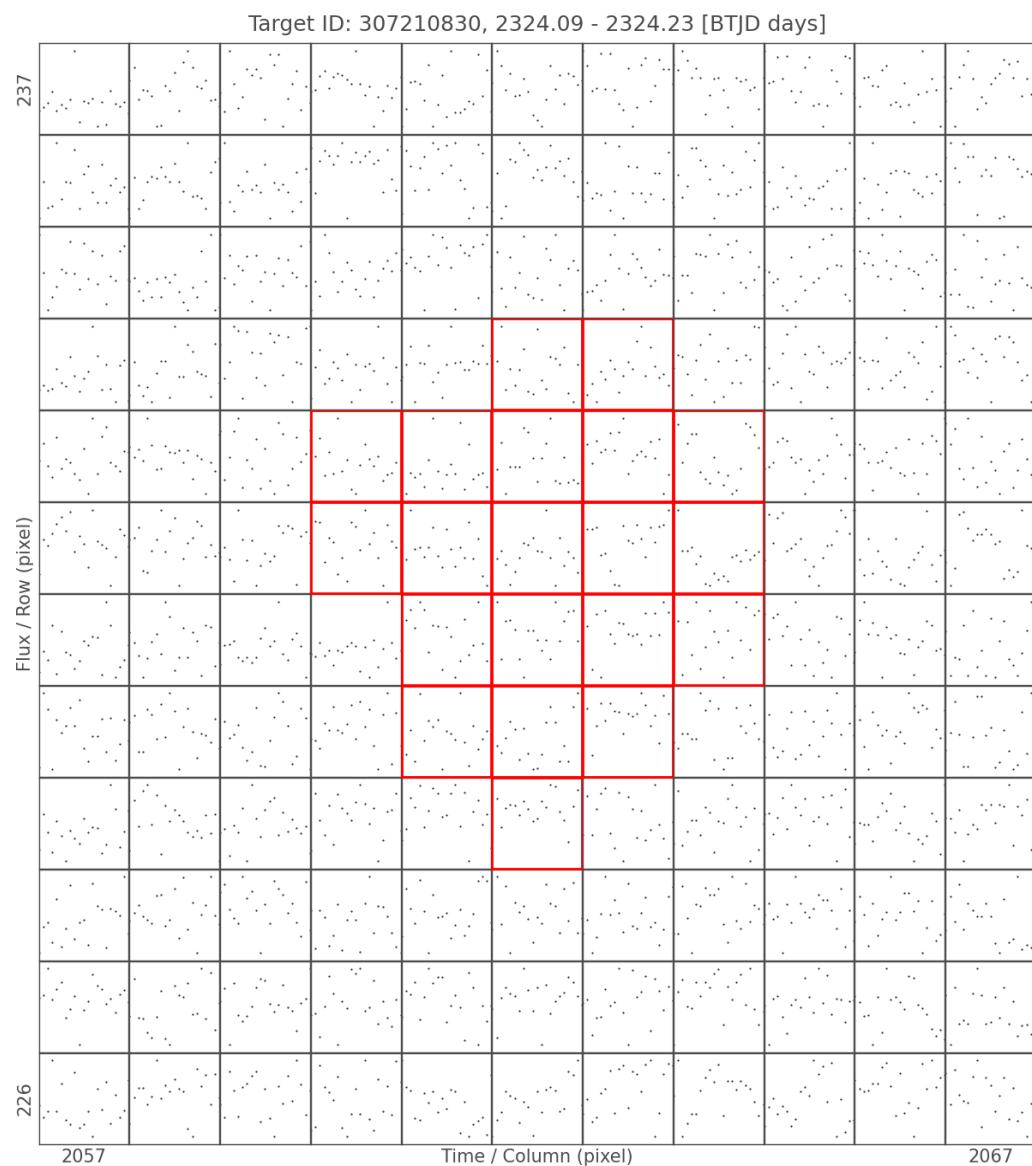
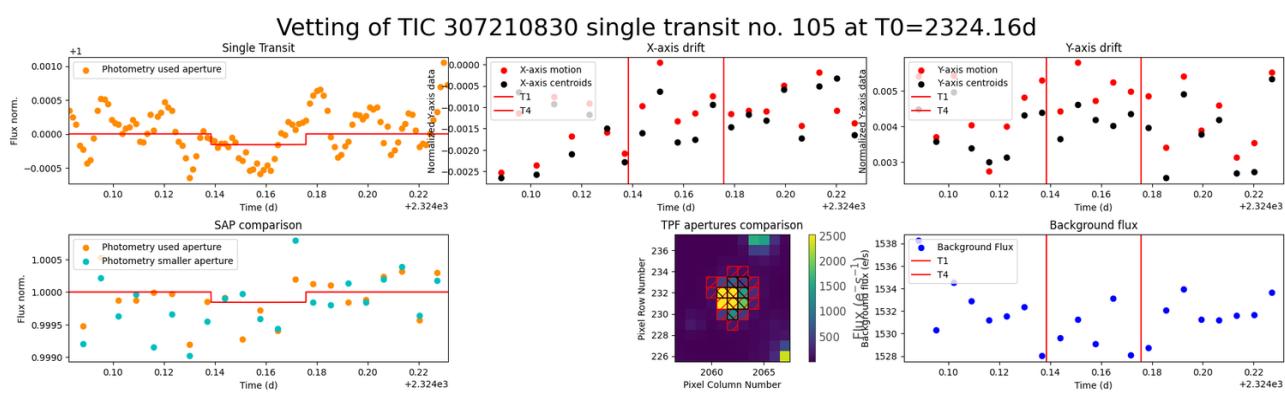


**Figure 117:** The single transit no. 104 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03

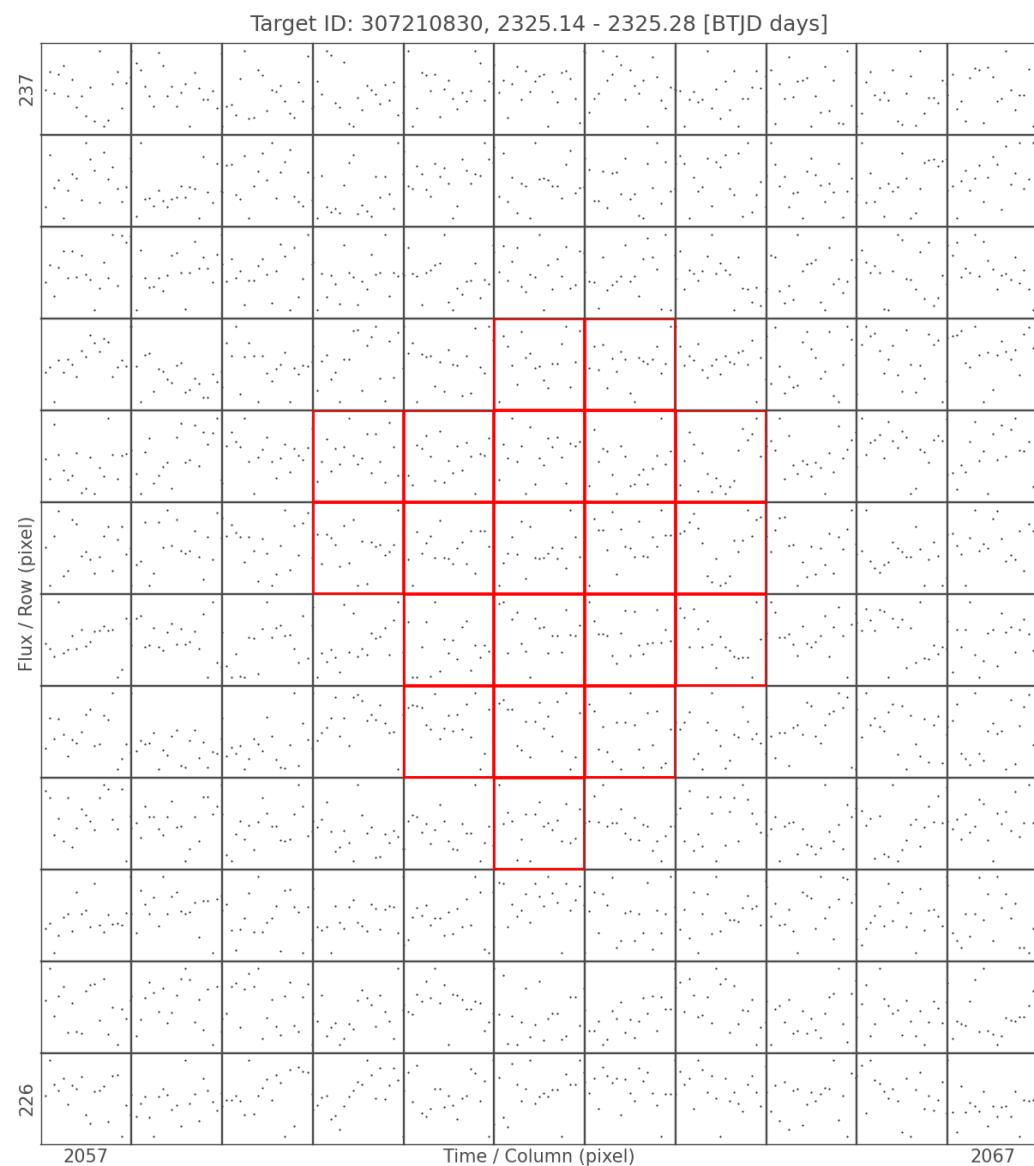
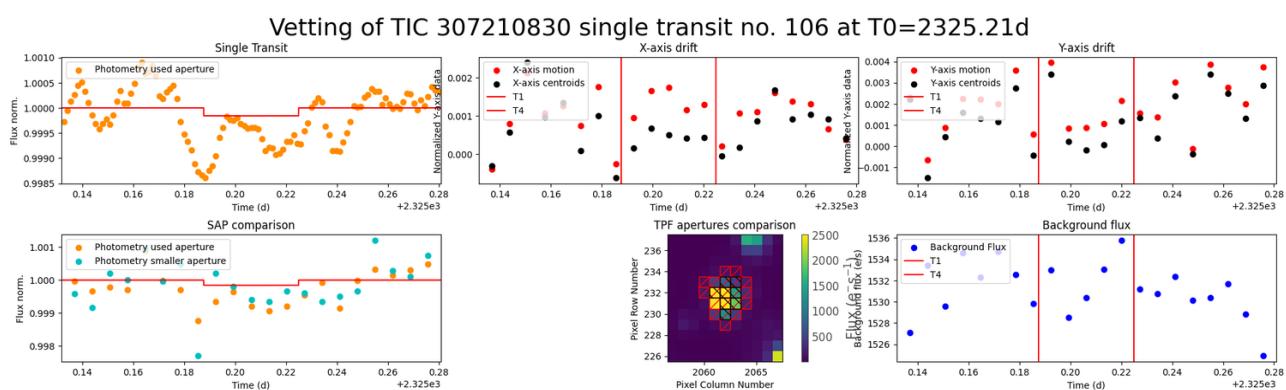


**Figure 118:** The single transit no. 105 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03

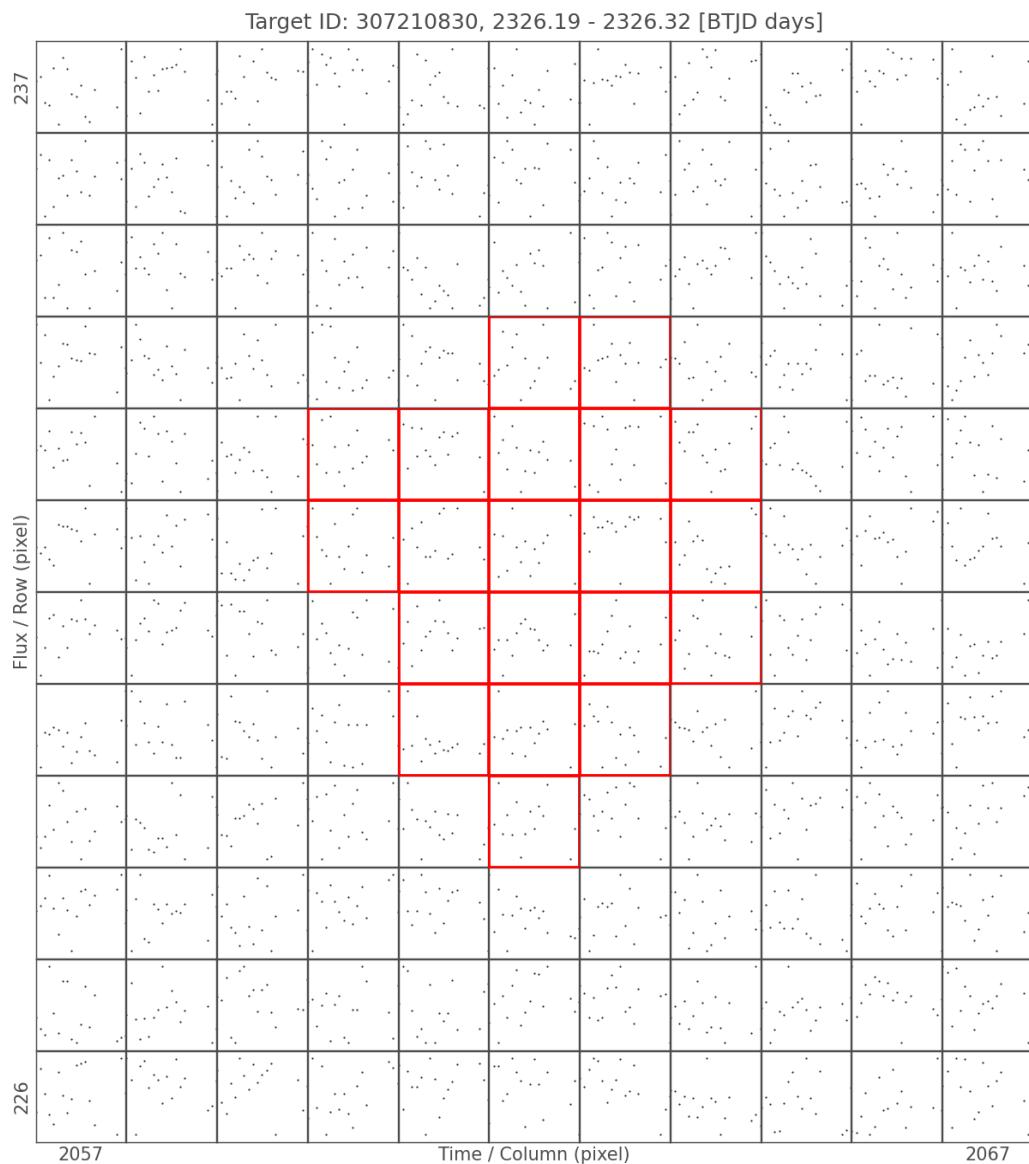
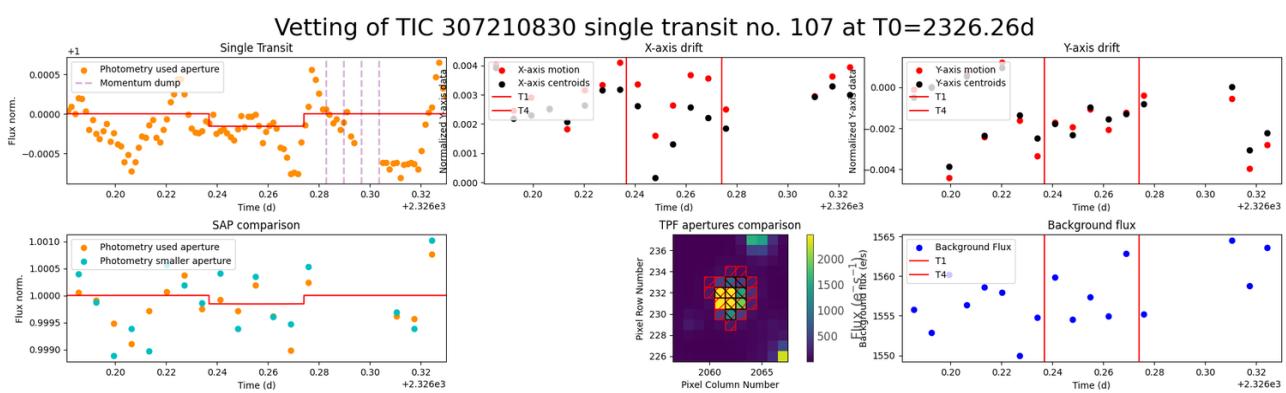


**Figure 119:** The single transit no. 106 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03

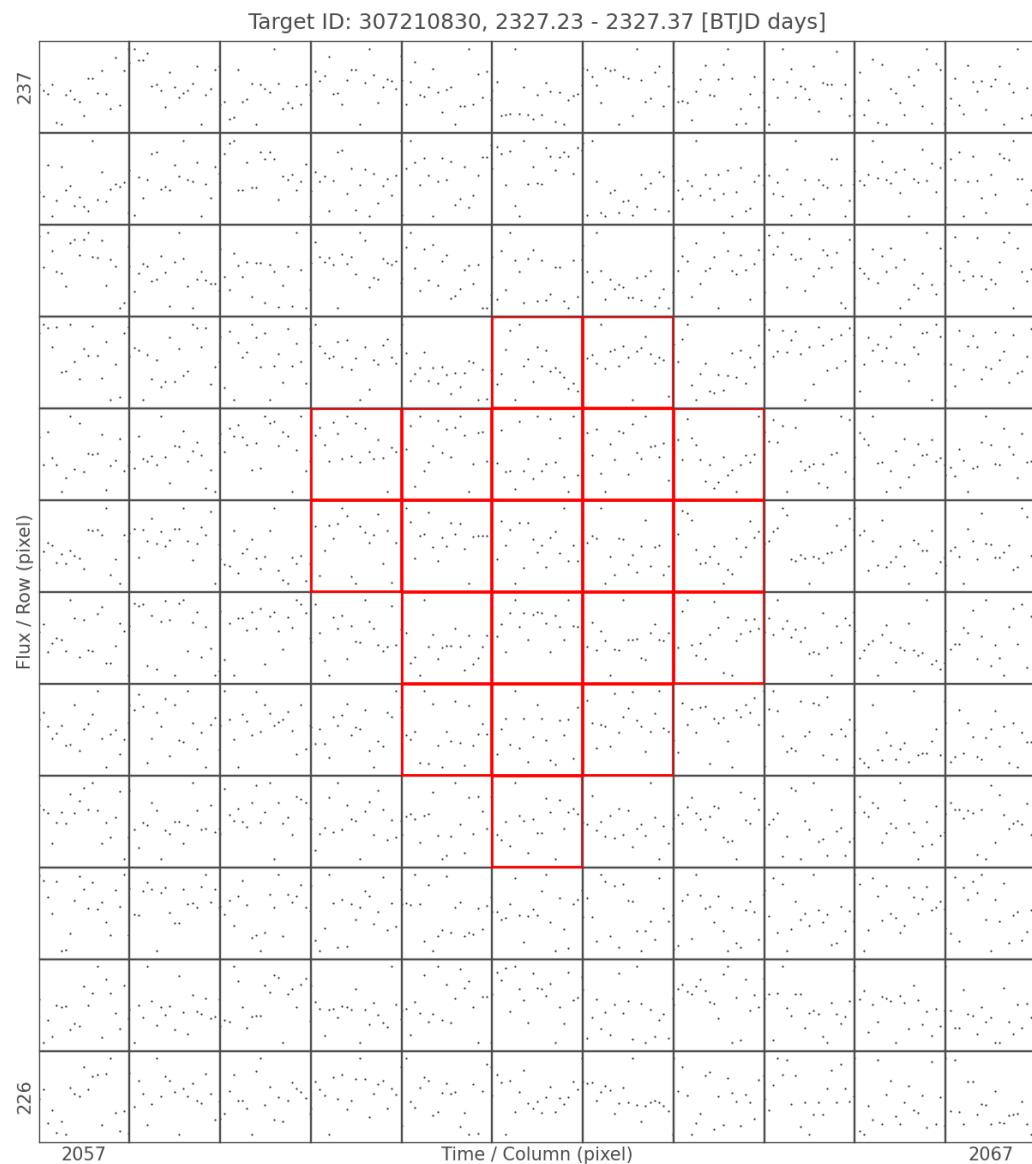
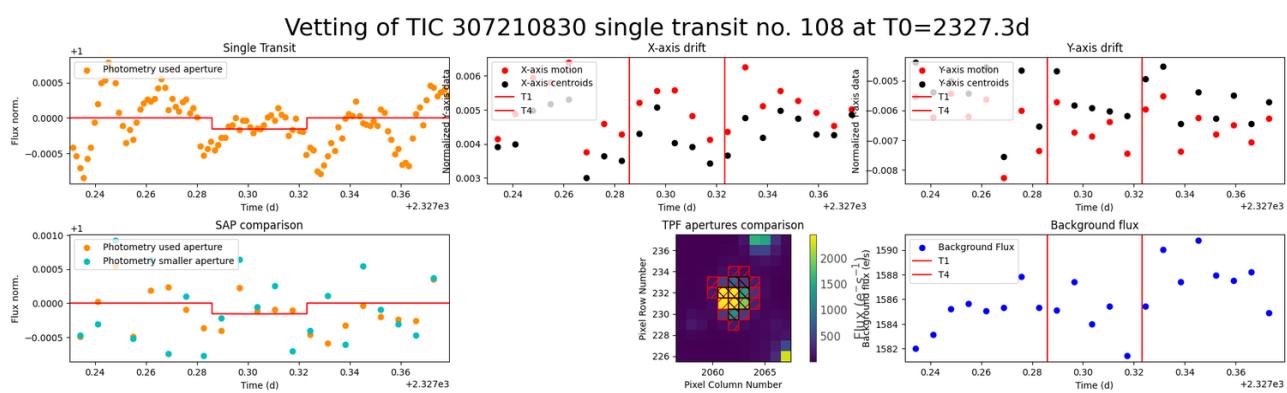


**Figure 120:** The single transit no. 107 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03



**Figure 121:** The single transit no. 108 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03

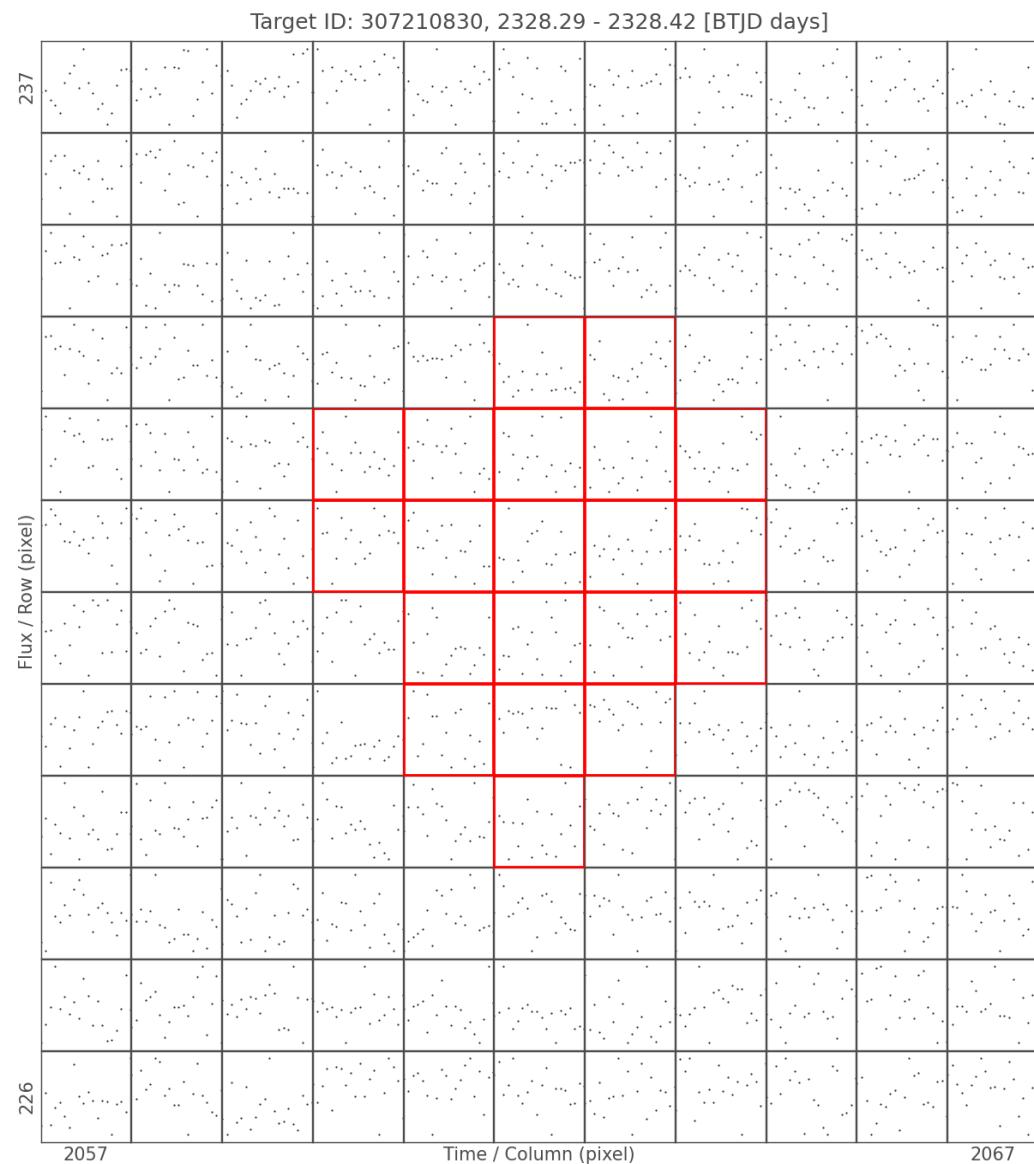
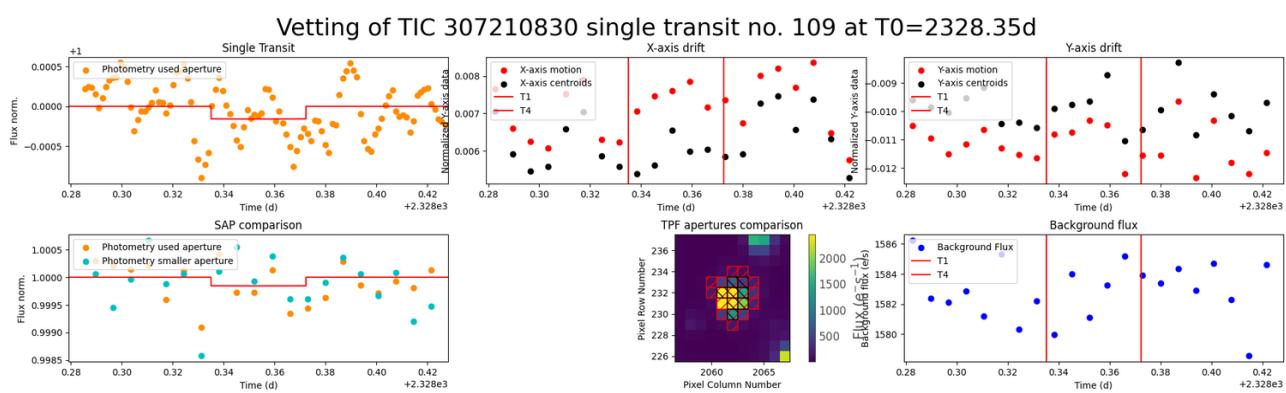
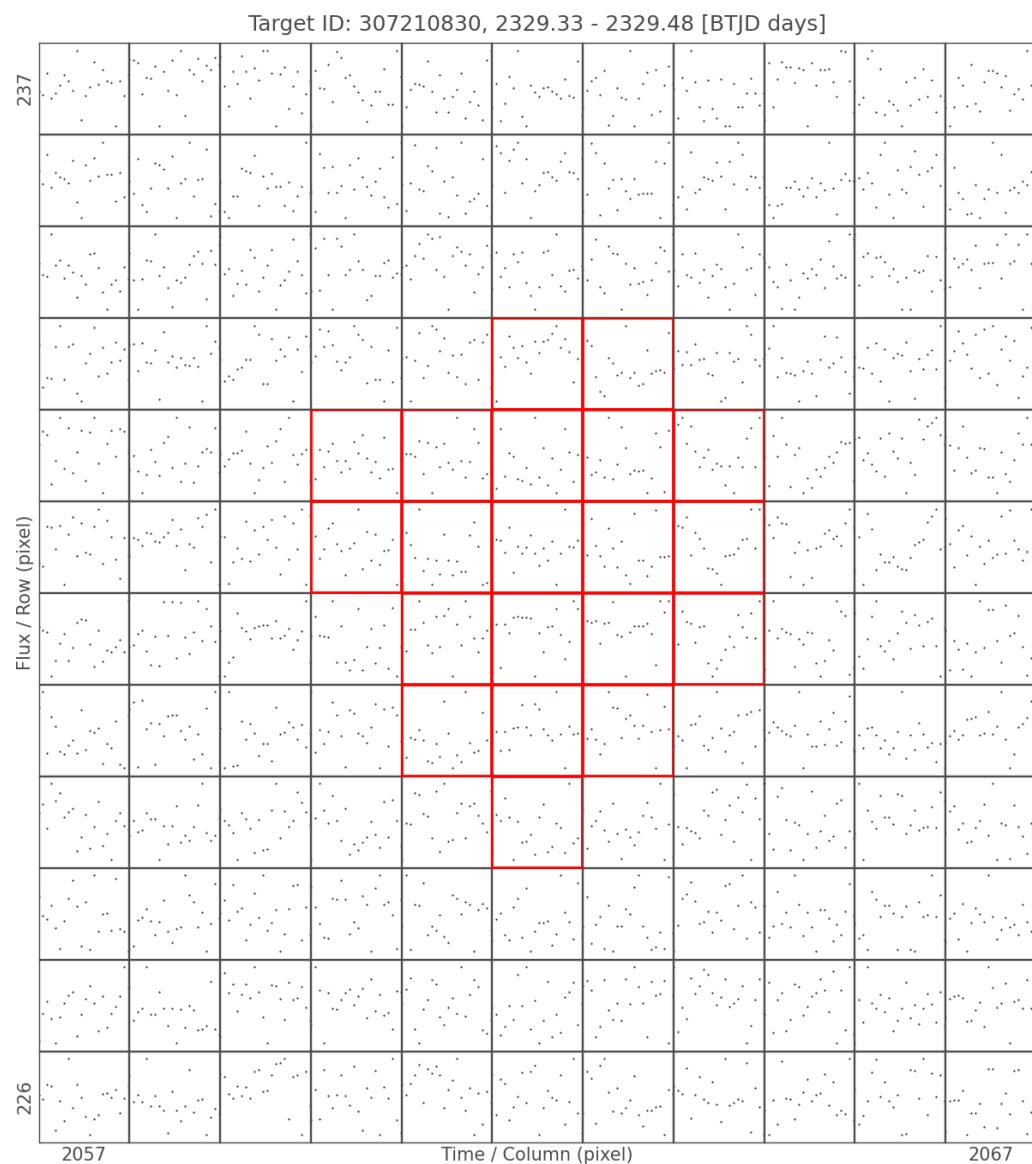
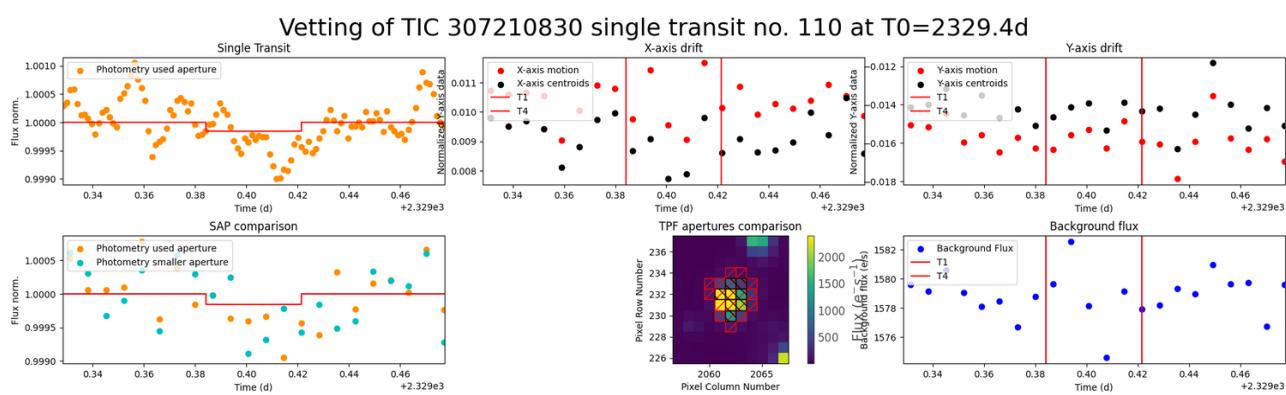


Figure 122: The single transit no. 109 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:03

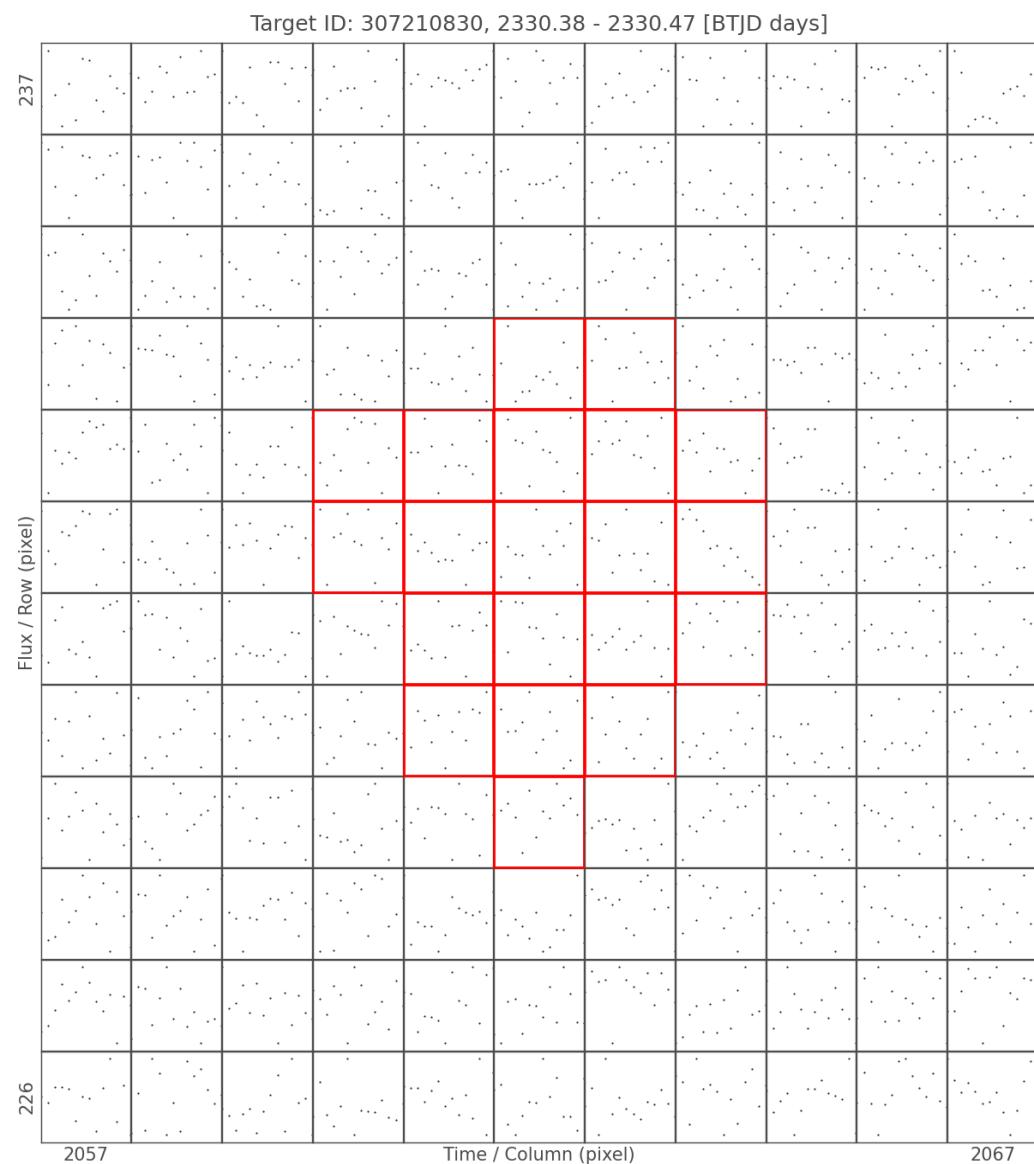
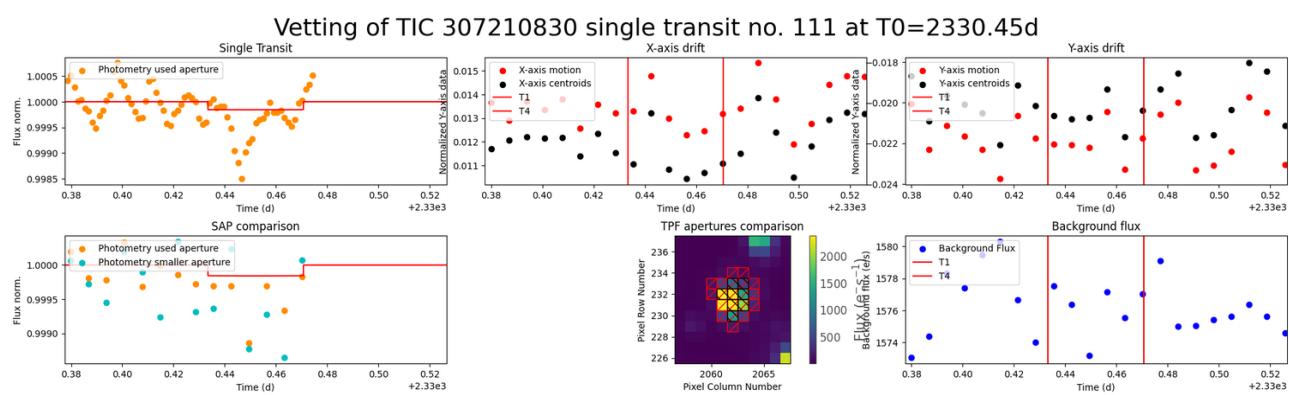


**Figure 123:** The single transit no. 110 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:04

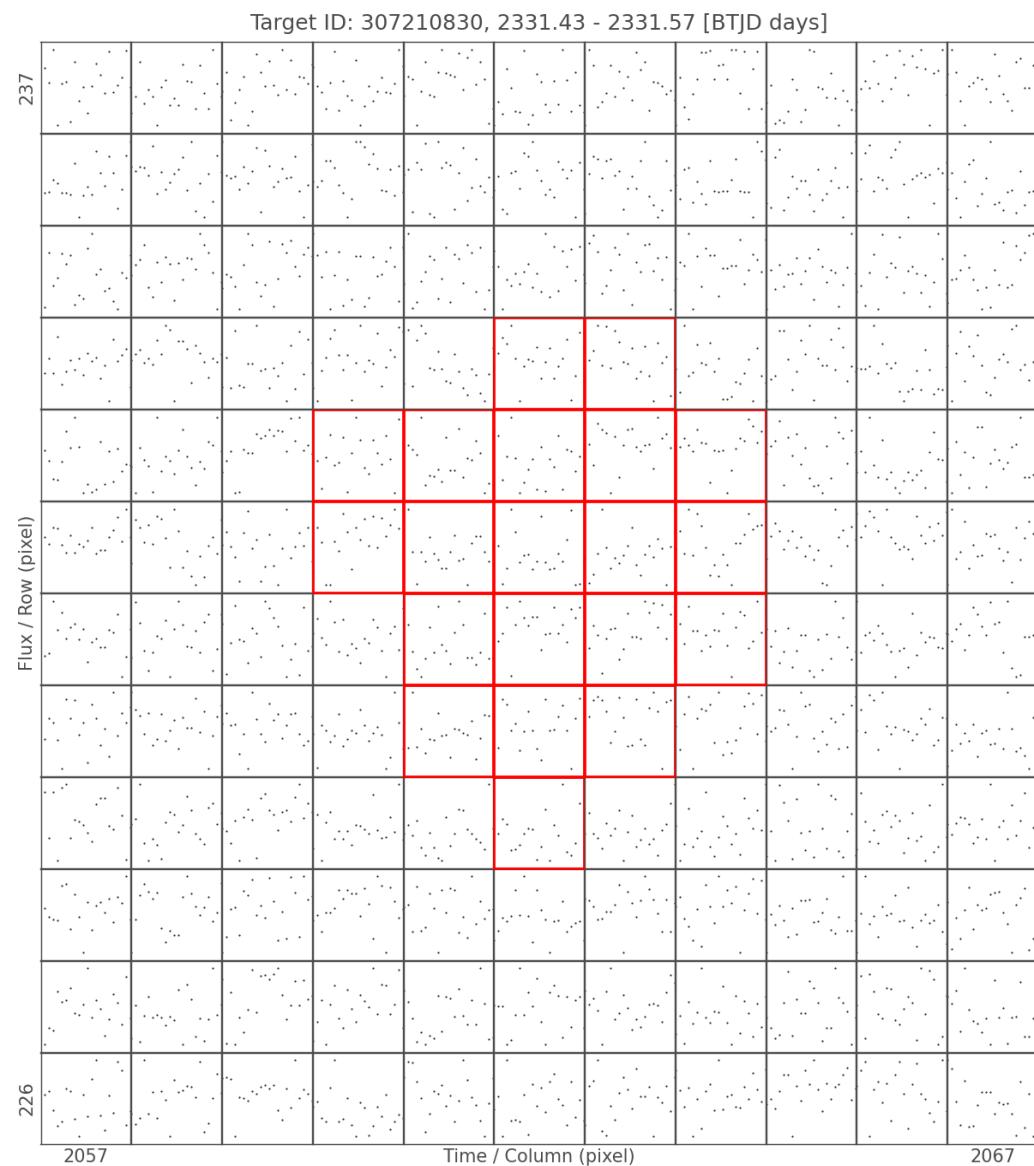
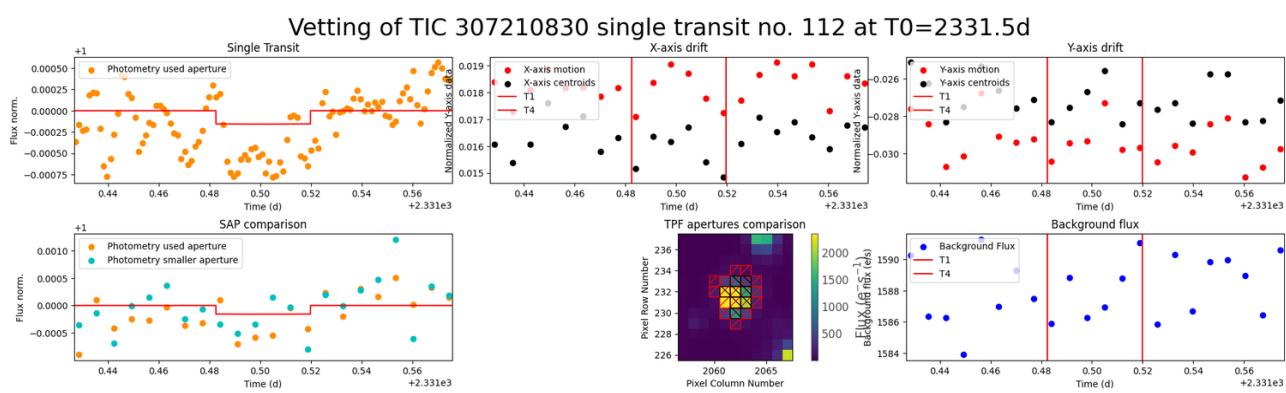


**Figure 124:** The single transit no. 111 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:04

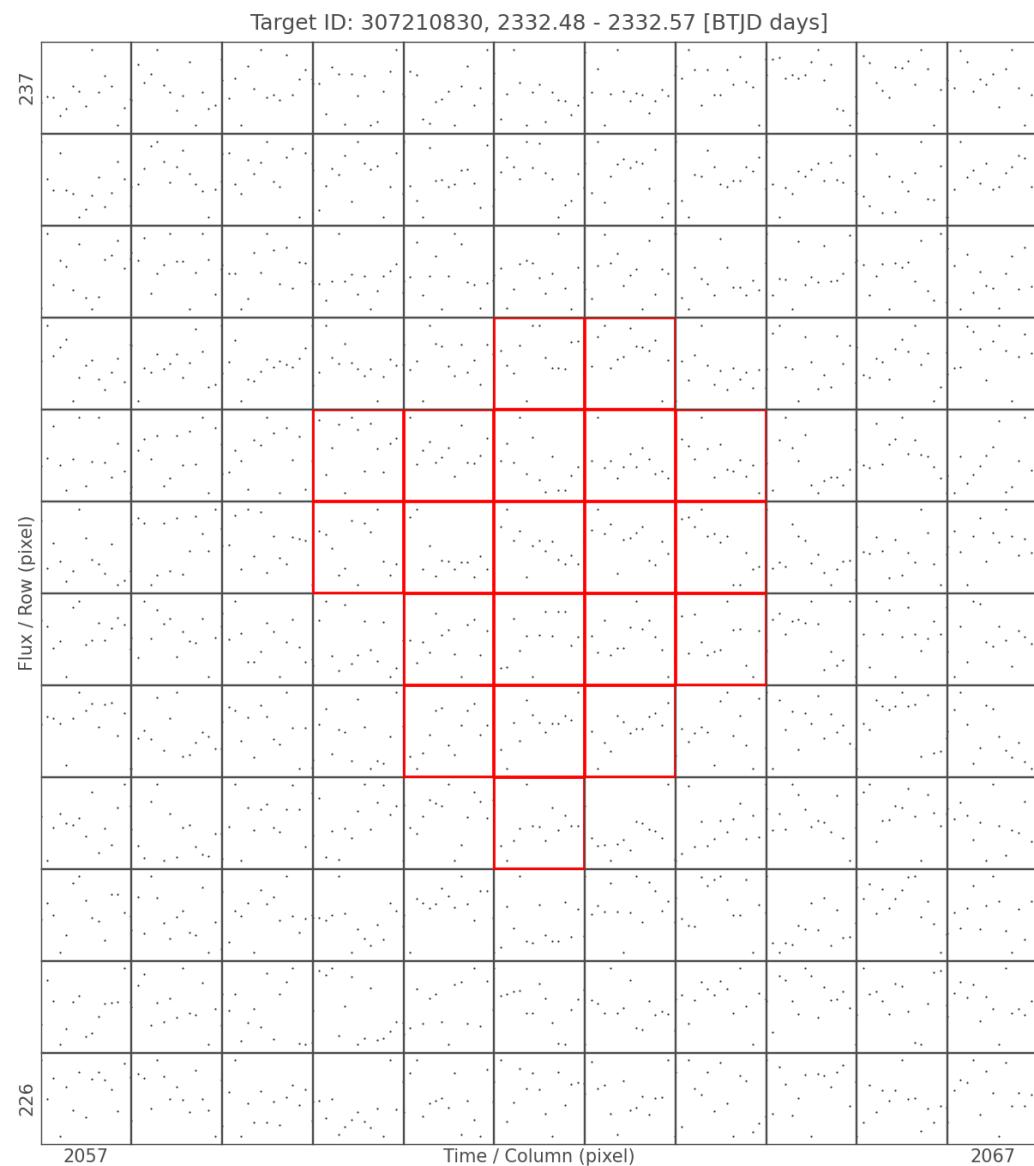
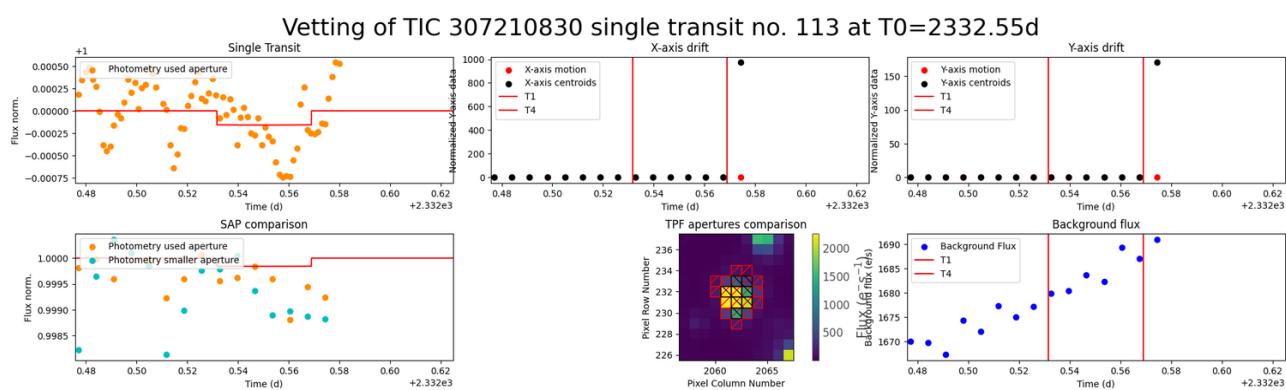


**Figure 125:** The single transit no. 112 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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**Figure 126:** The single transit no. 113 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:04

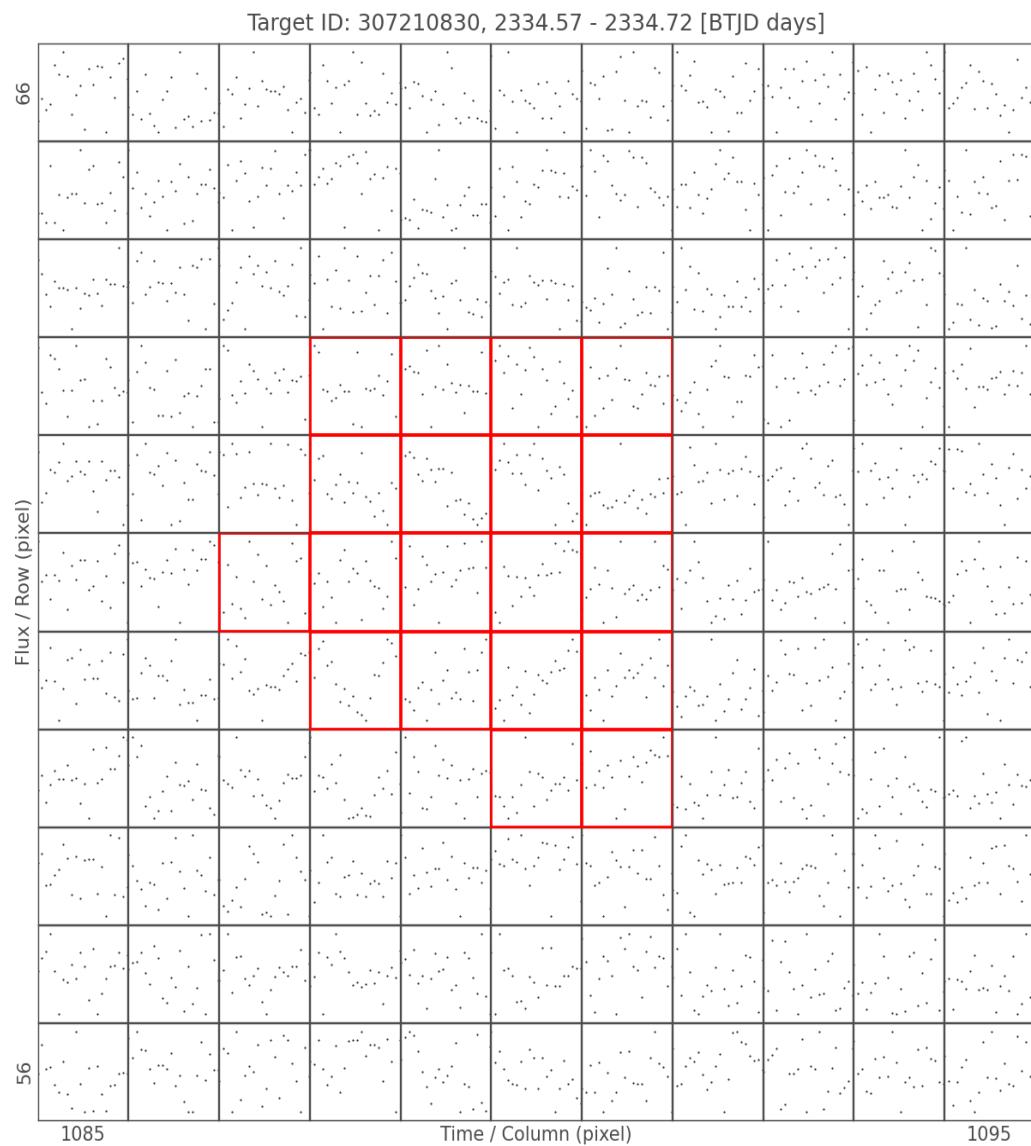
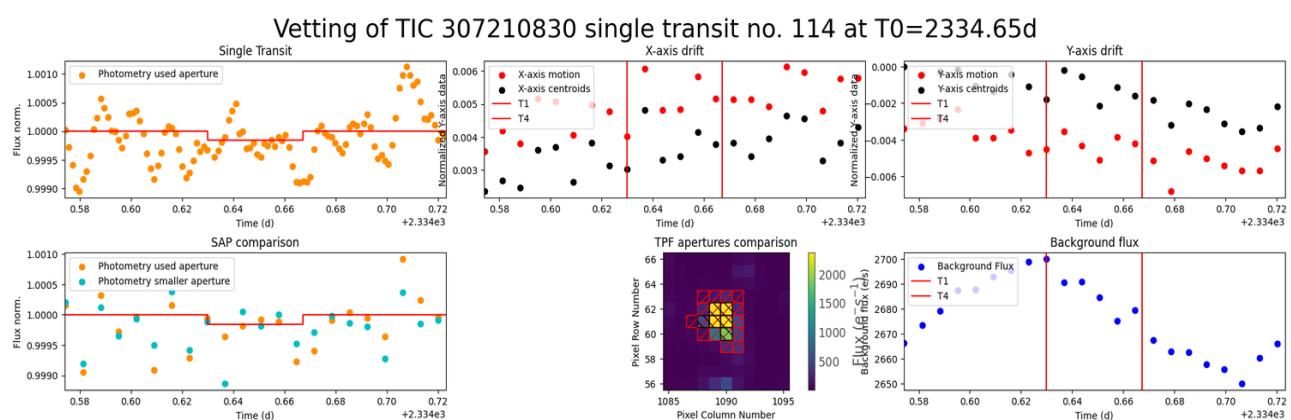


Figure 127: The single transit no. 114 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:04

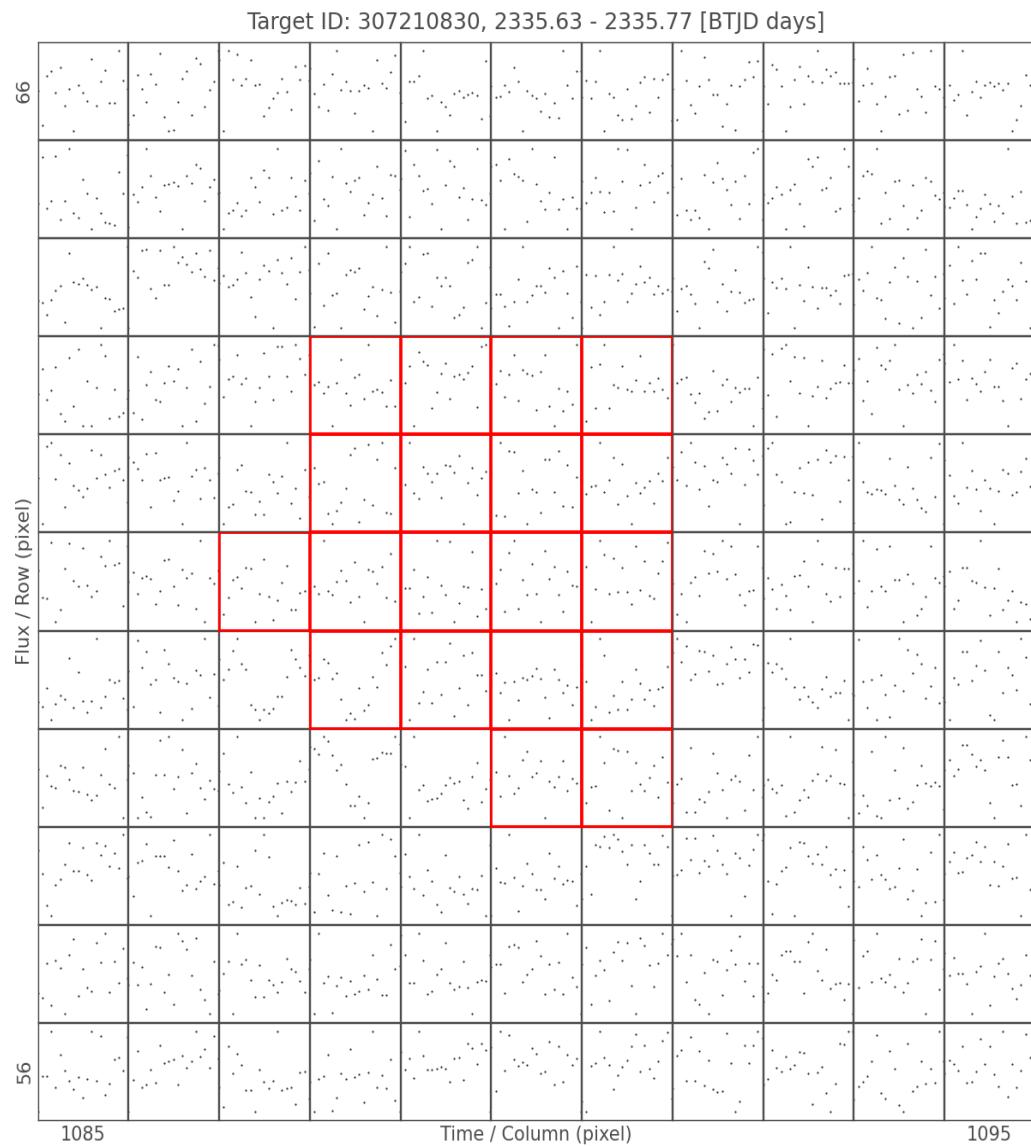
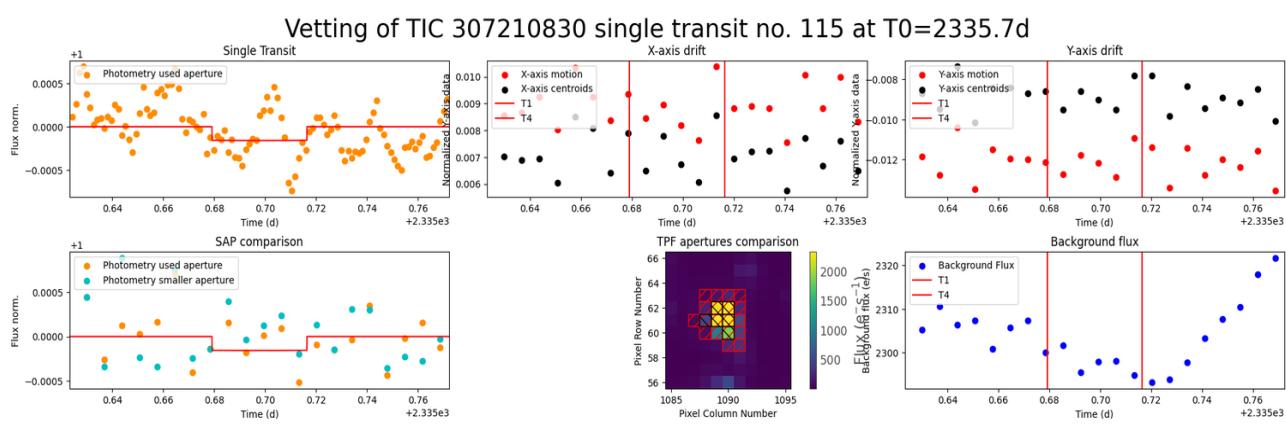


Figure 128: The single transit no. 115 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:05

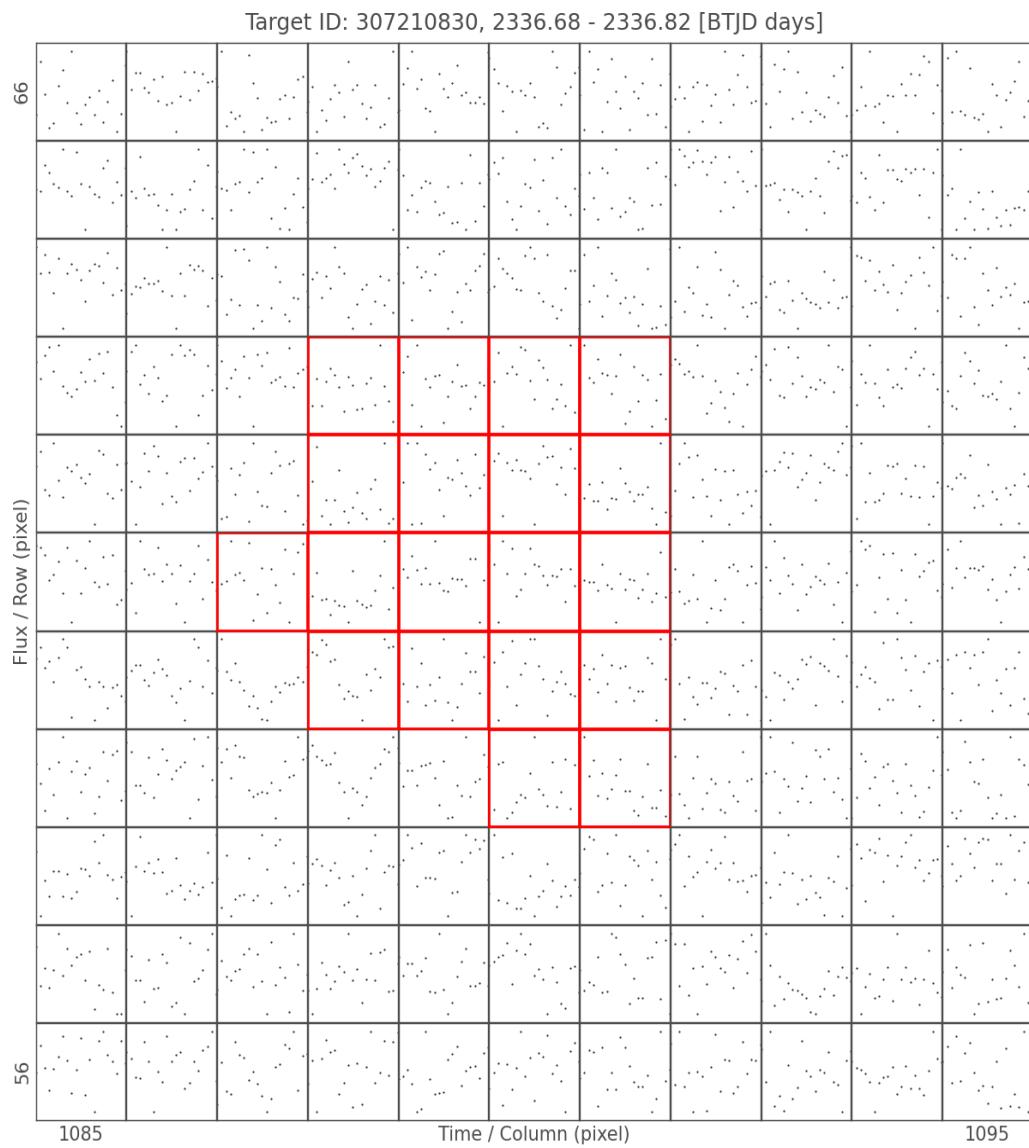
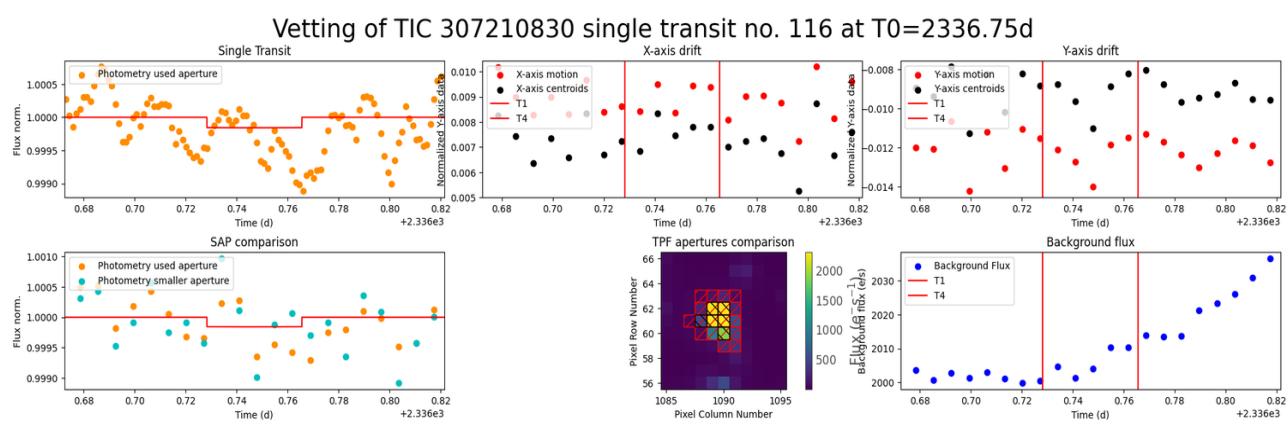


Figure 129: The single transit no. 116 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:05

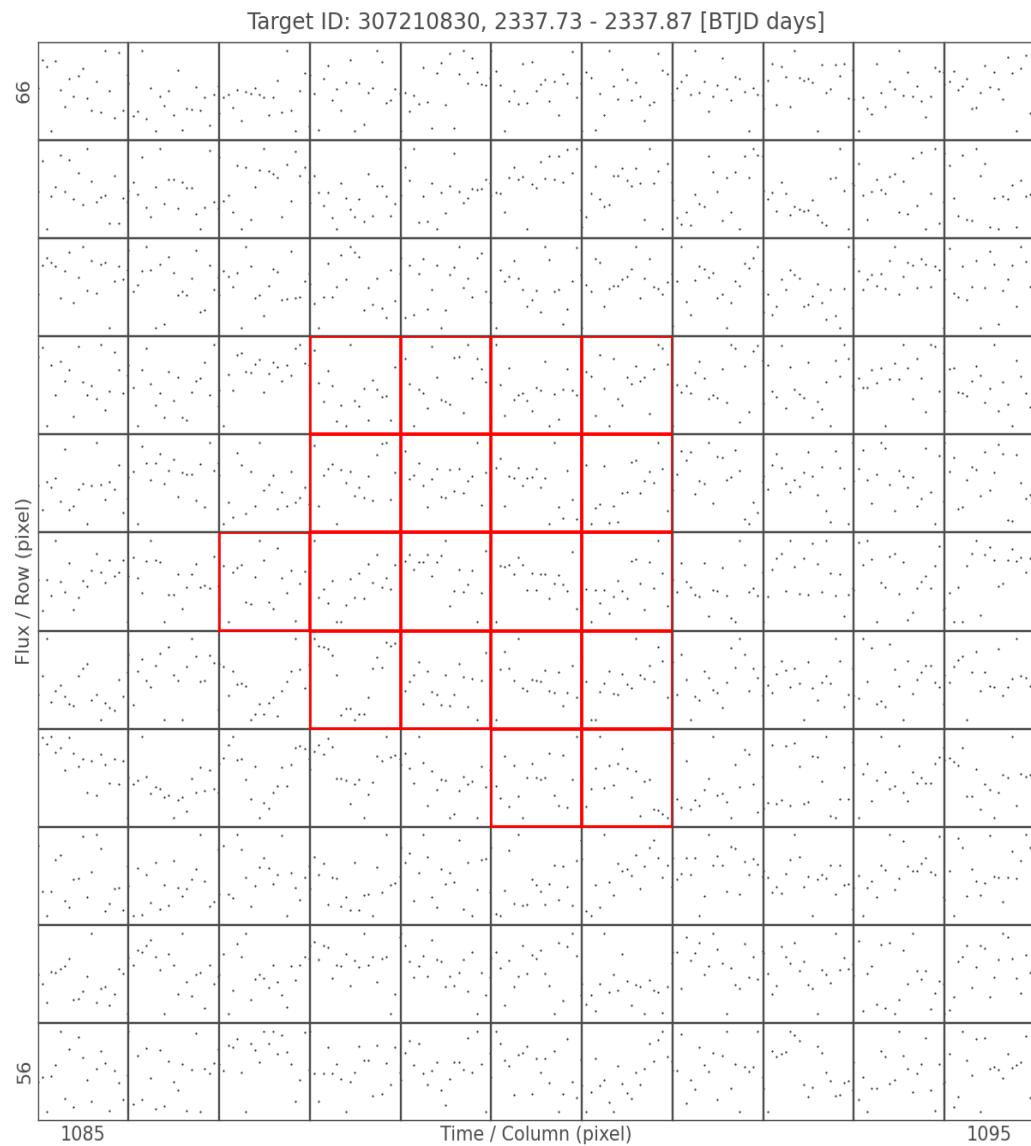
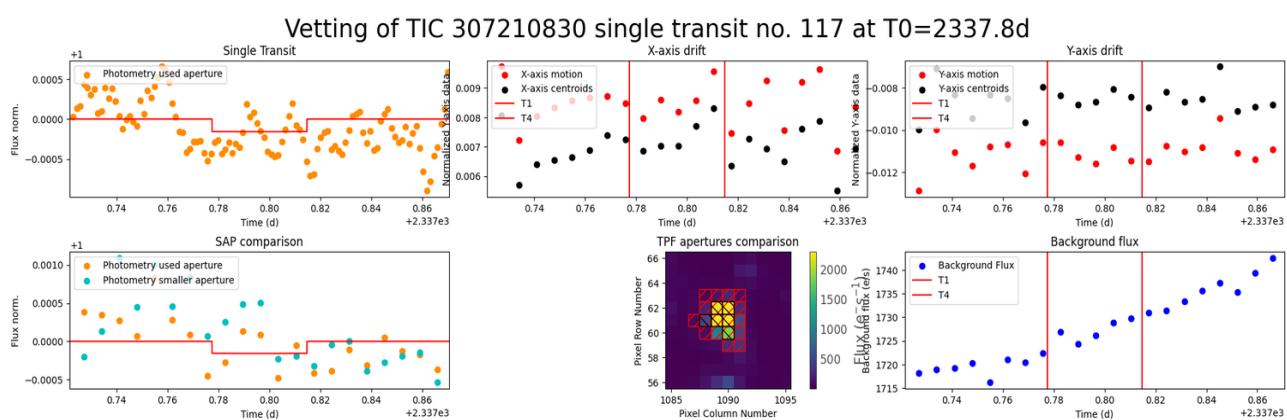


Figure 130: The single transit no. 117 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:05

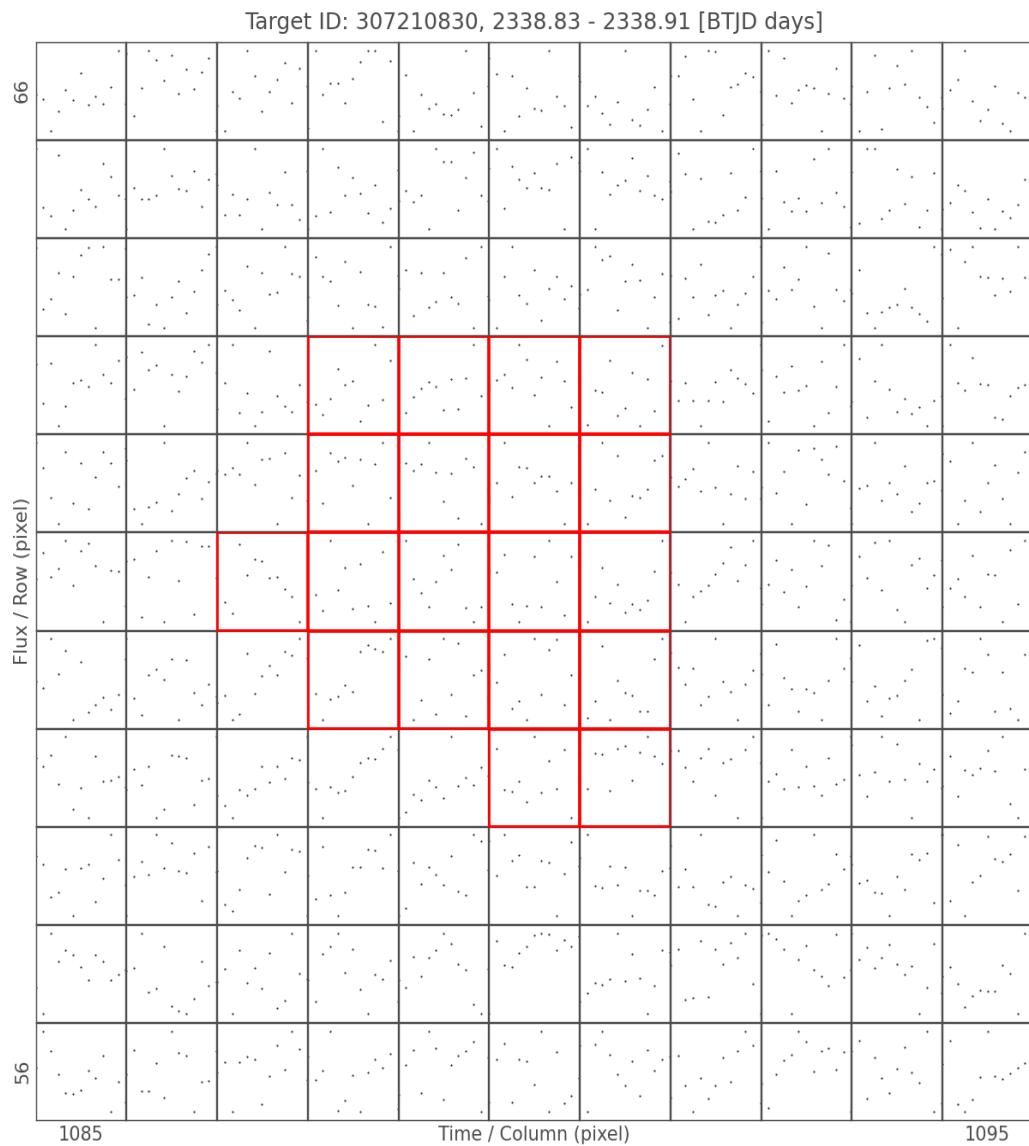
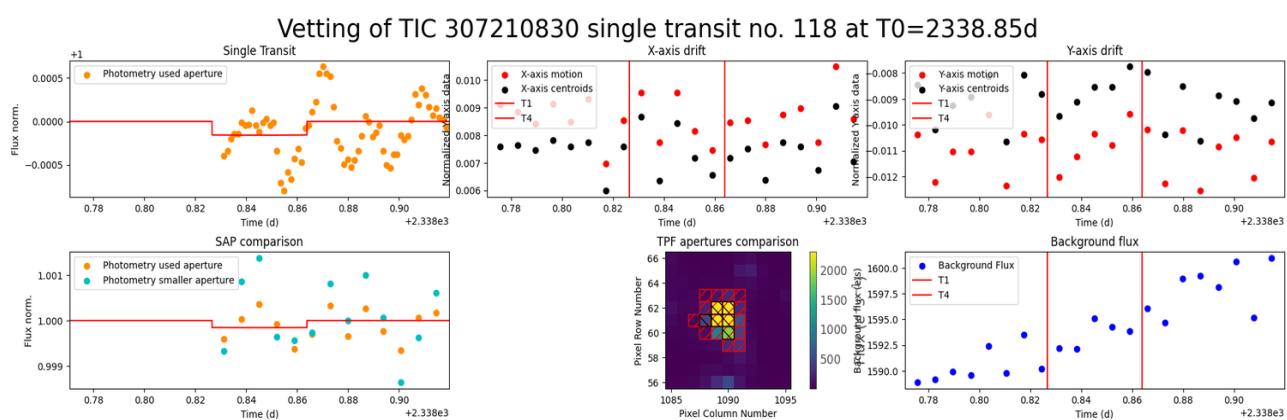


Figure 131: The single transit no. 118 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:05

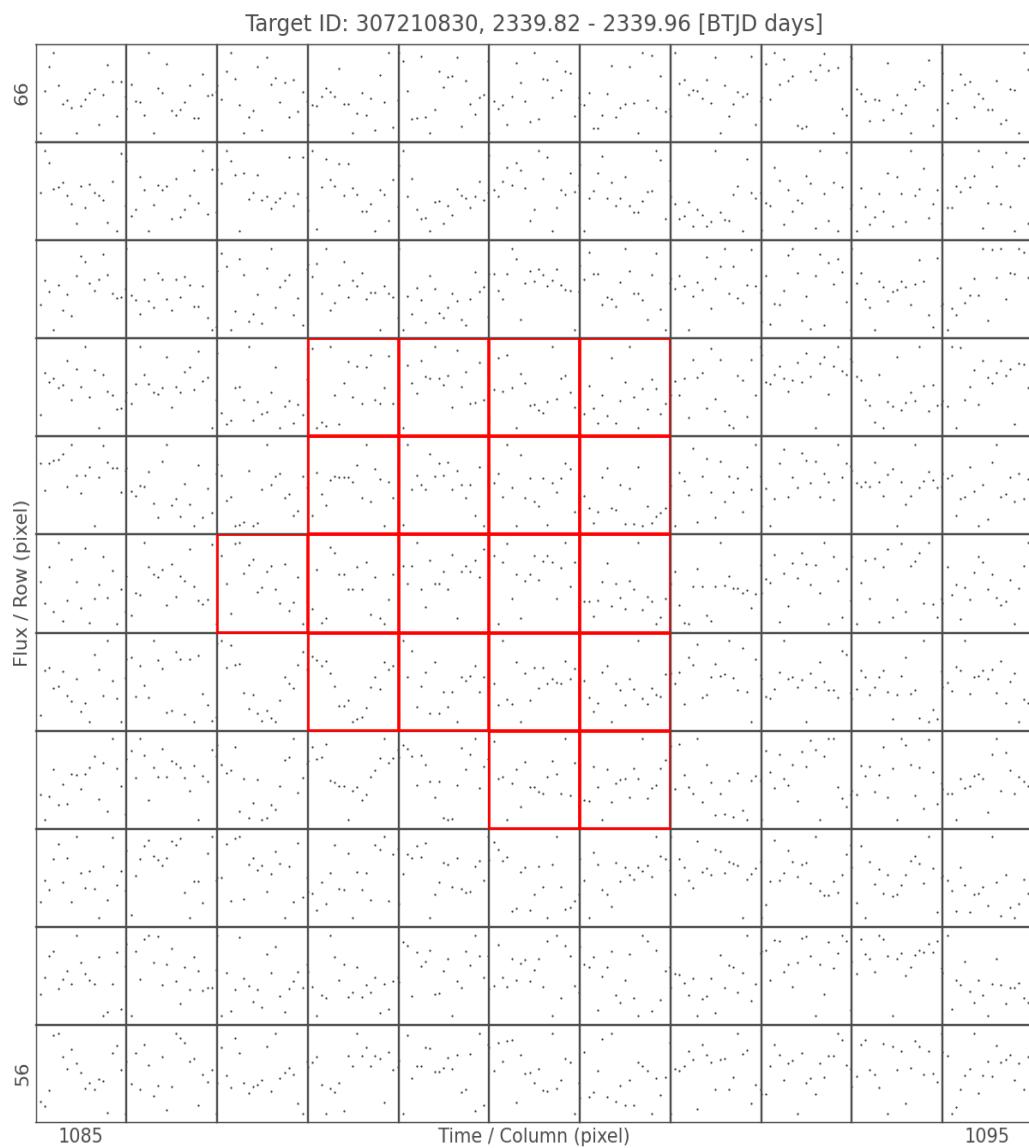
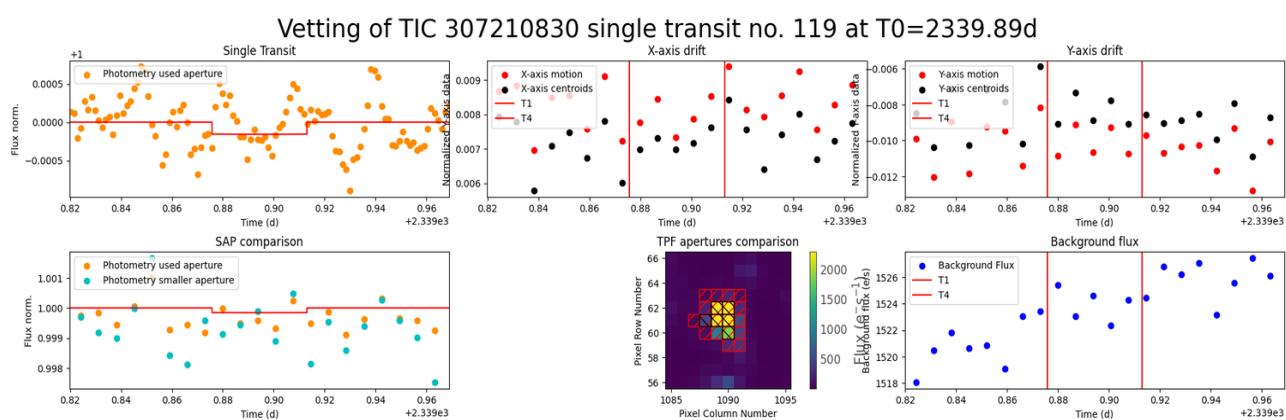


Figure 132: The single transit no. 119 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:05

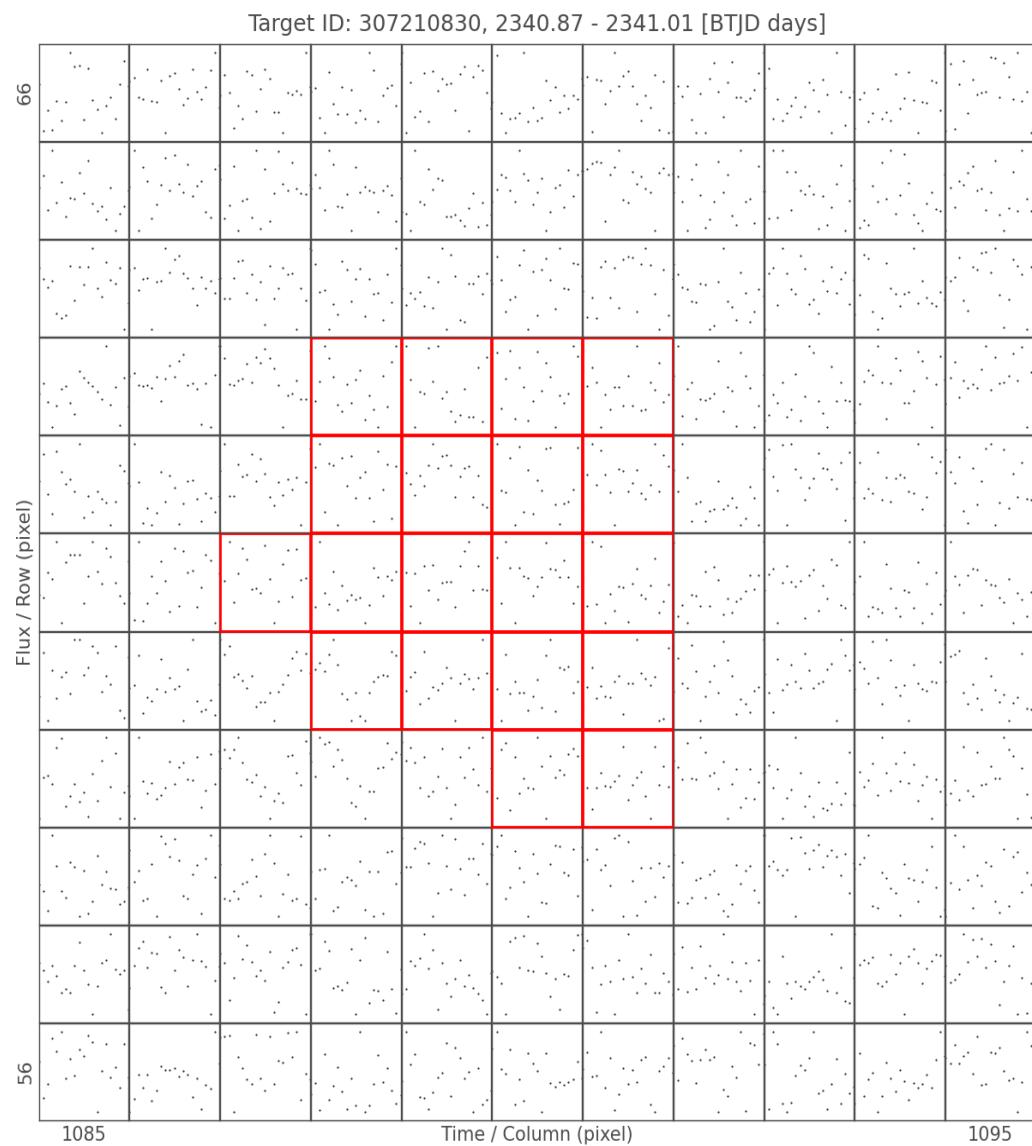
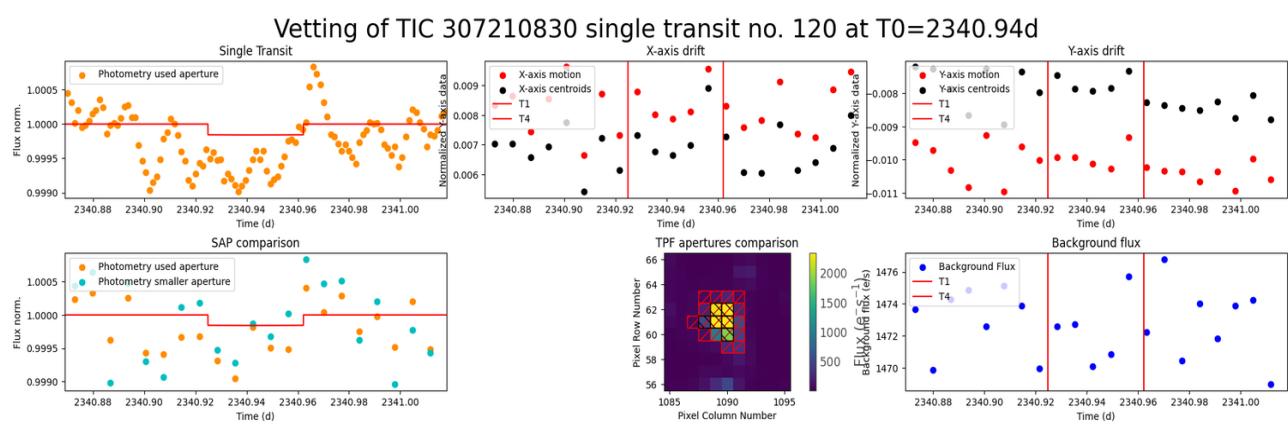


Figure 133: The single transit no. 120 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:06

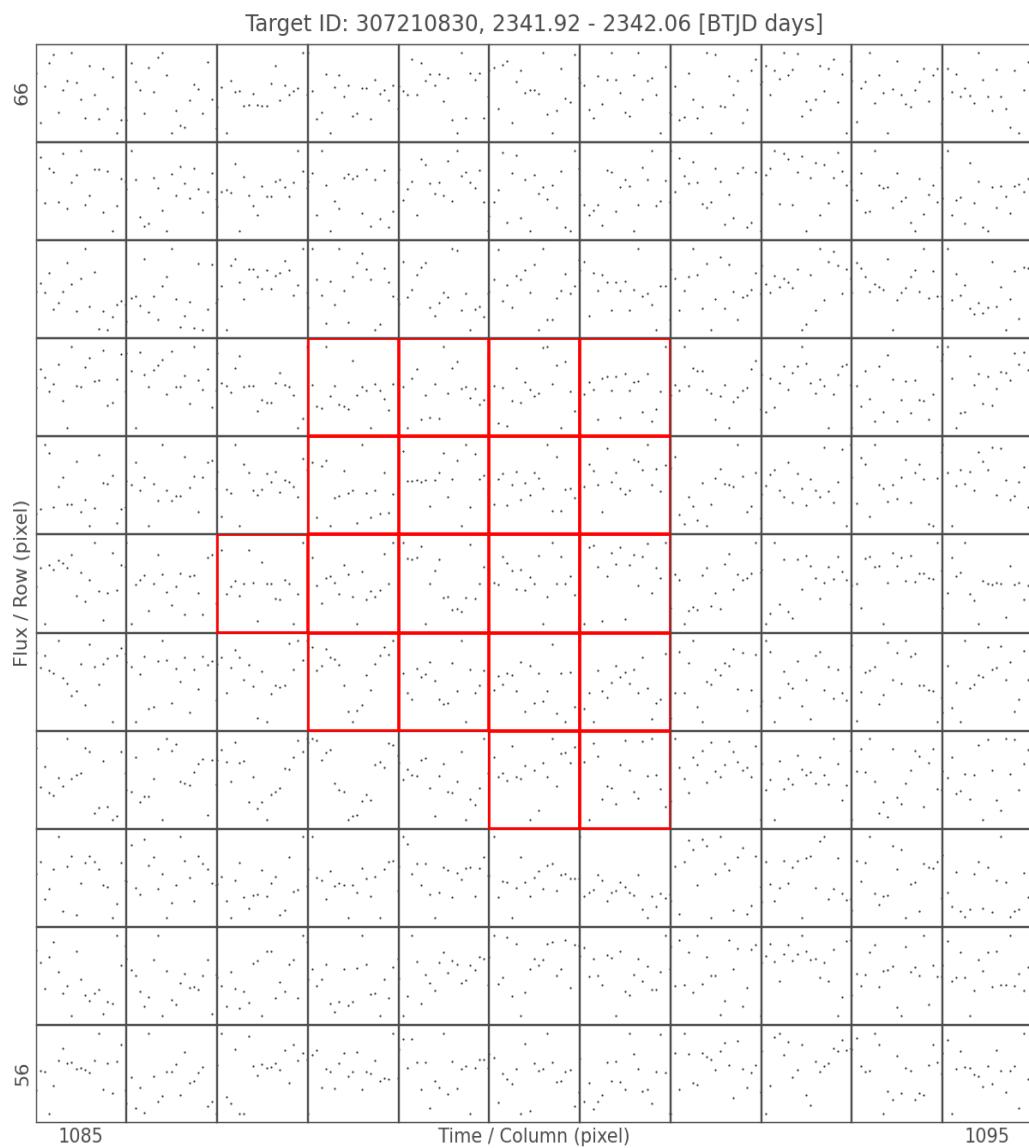
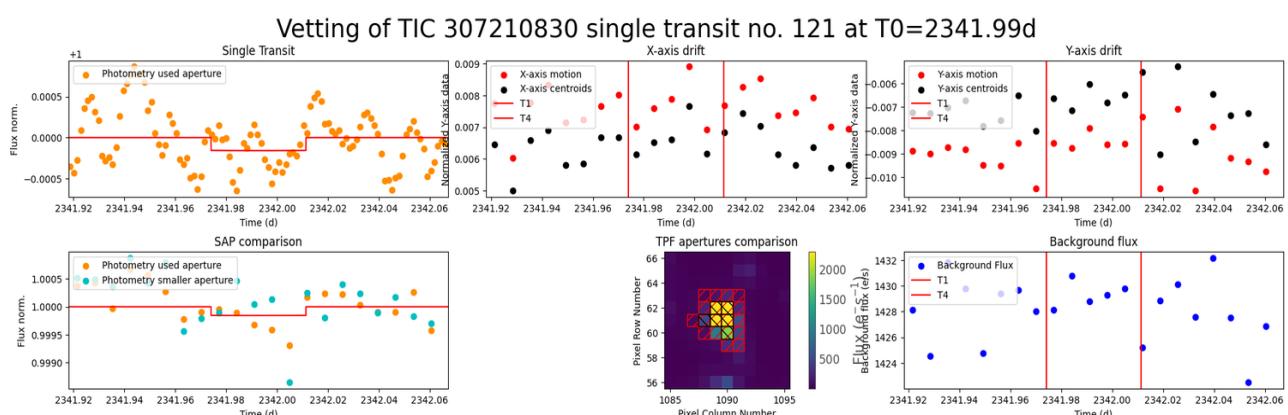


Figure 134: The single transit no. 121 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:06

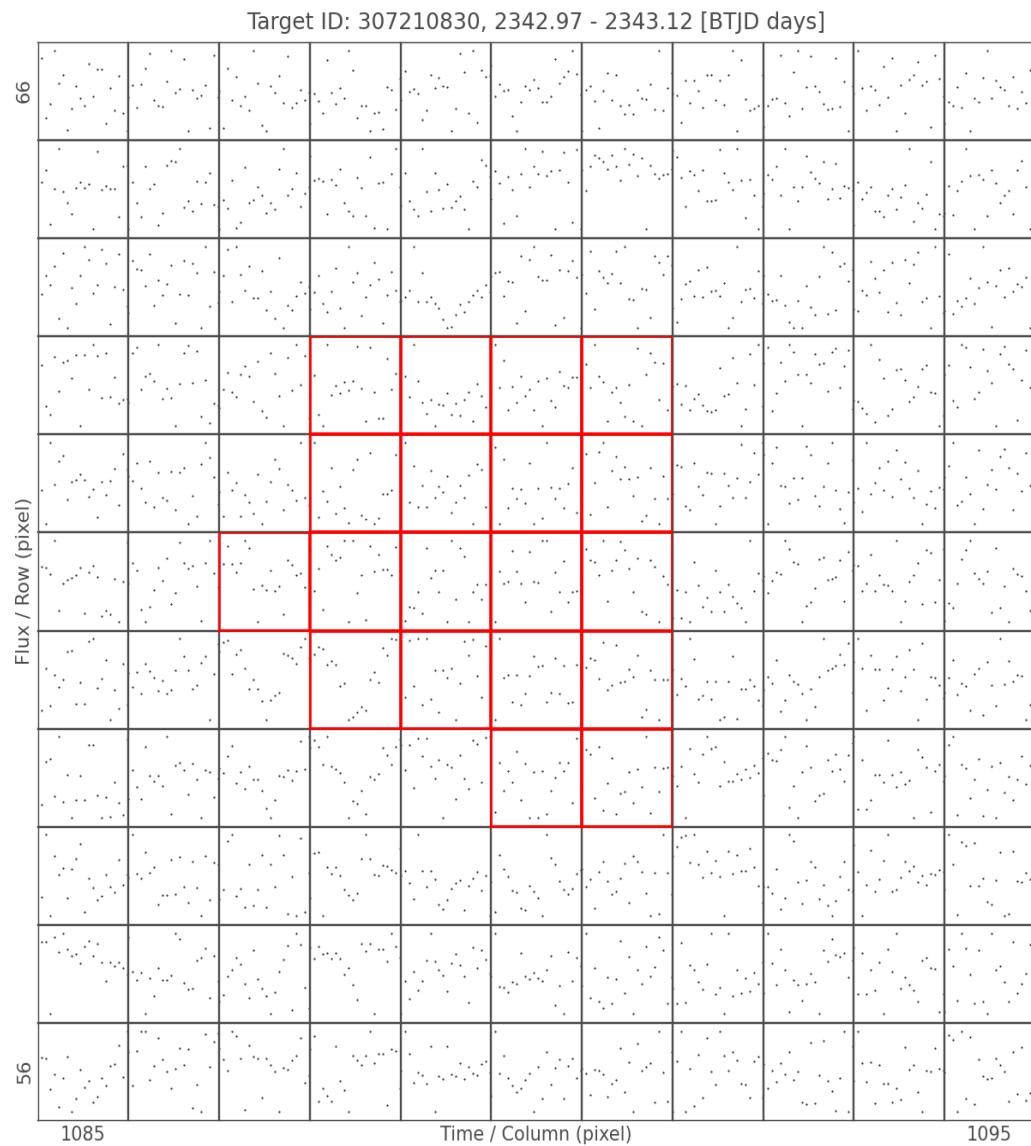
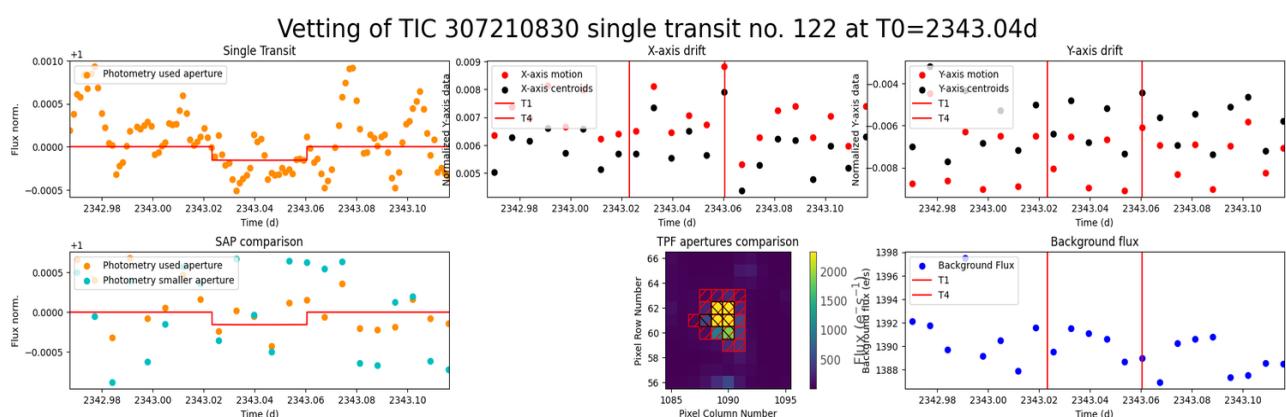


Figure 135: The single transit no. 122 vetting plots

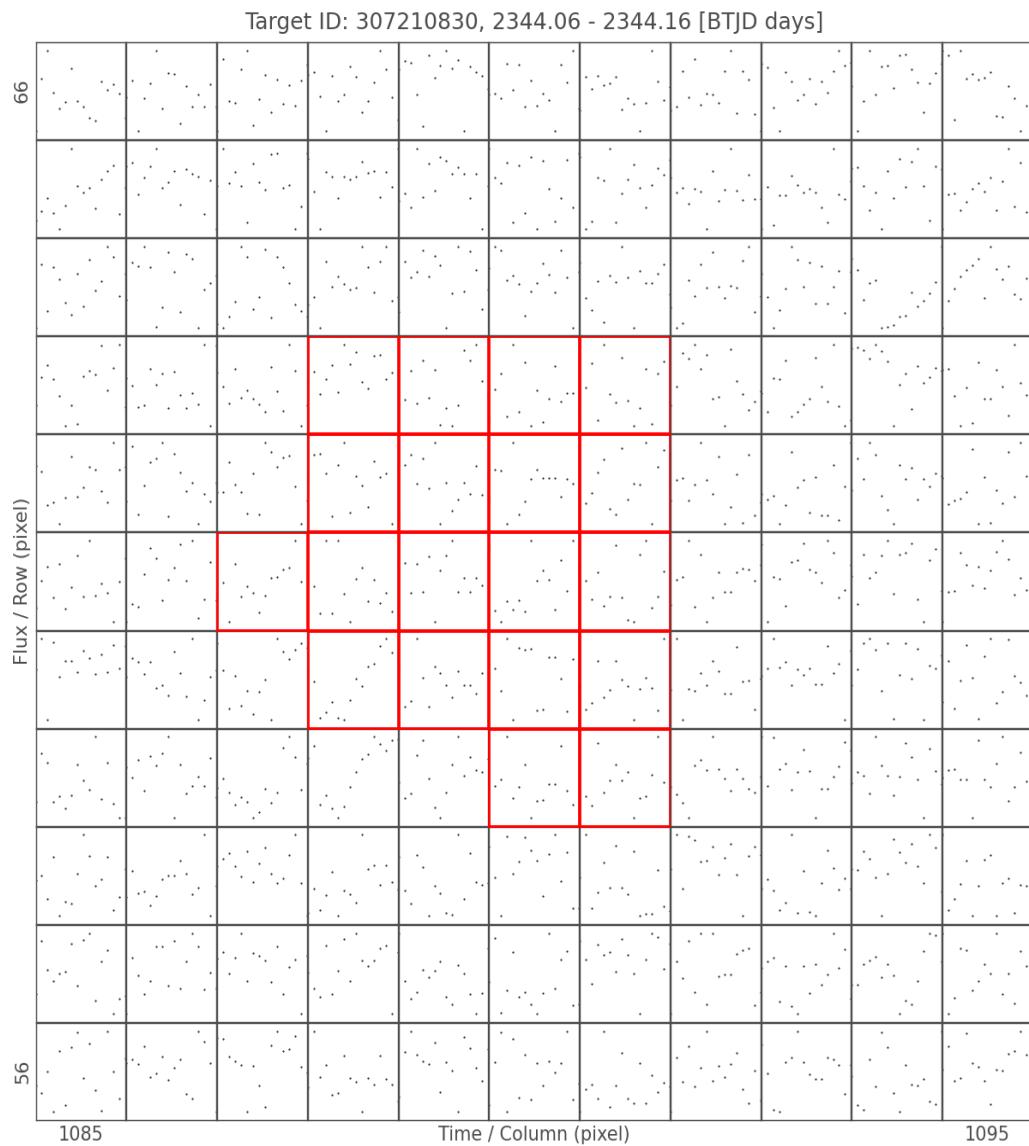
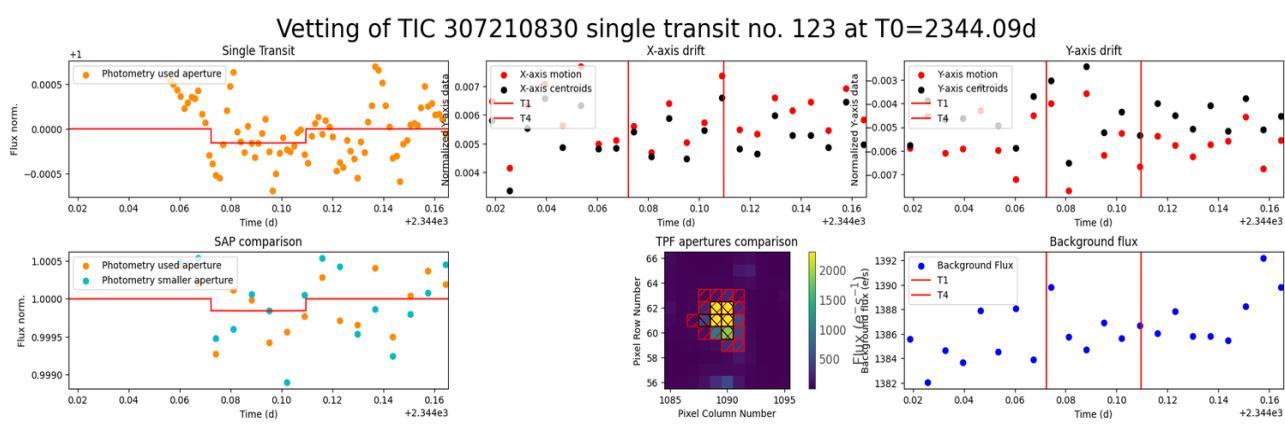


Figure 136: The single transit no. 123 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:06

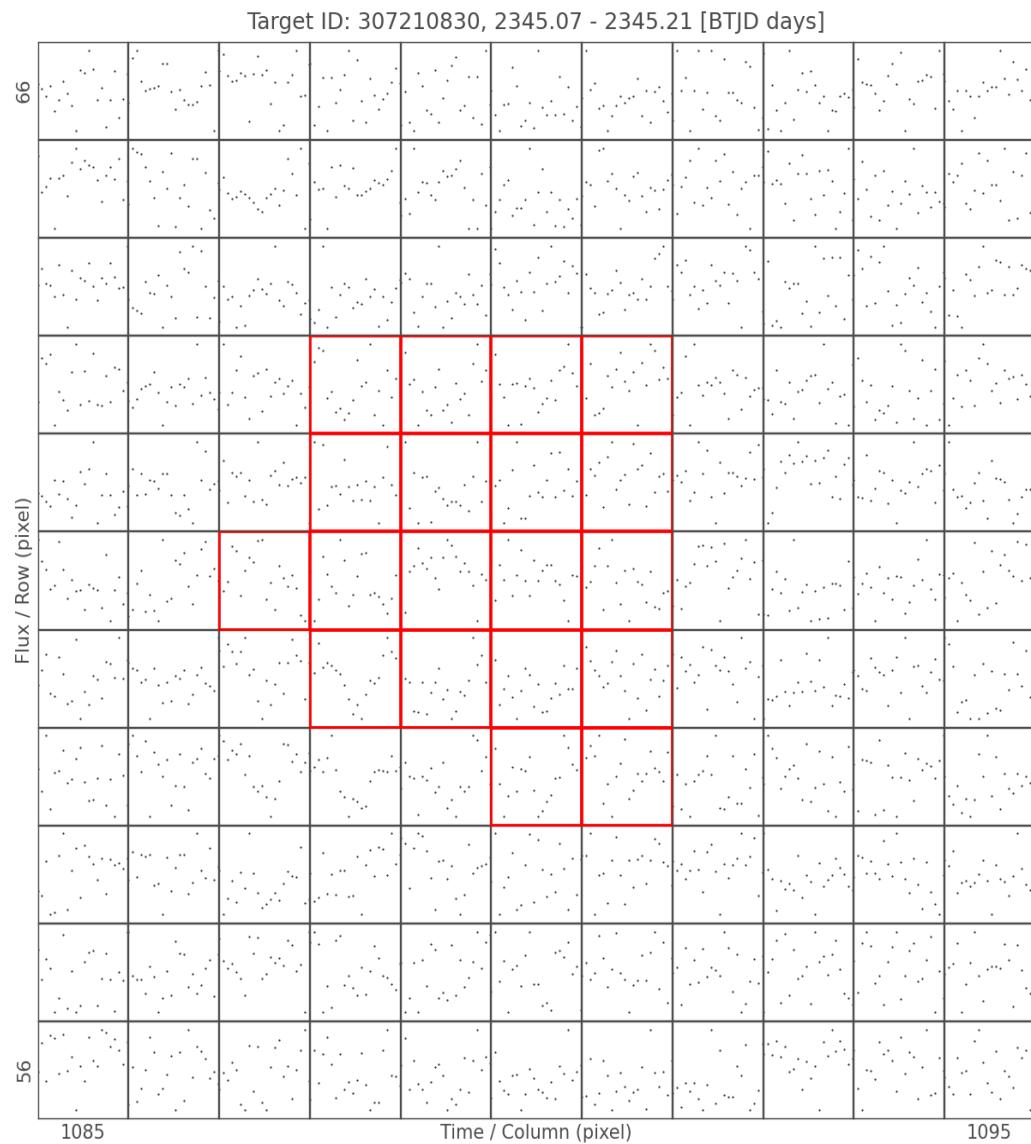
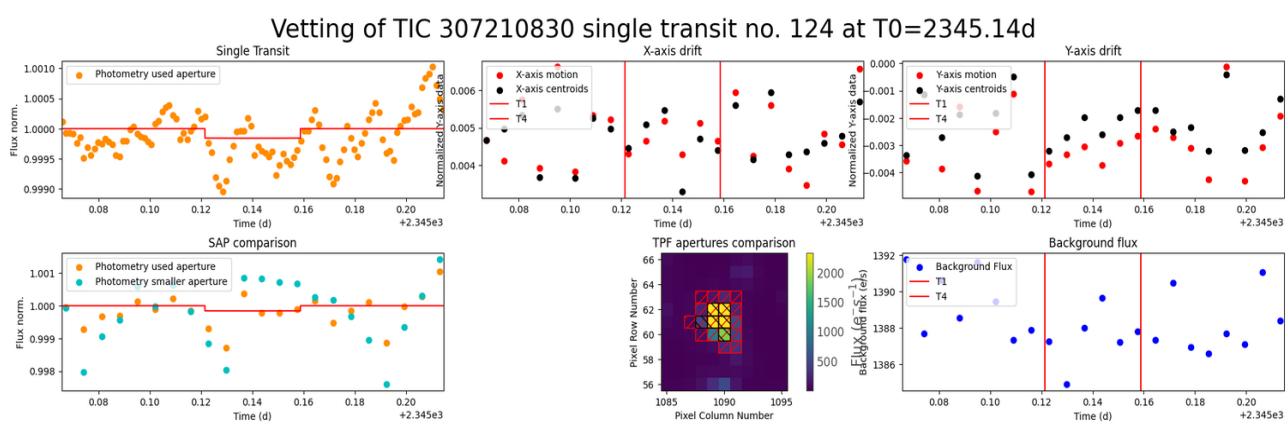
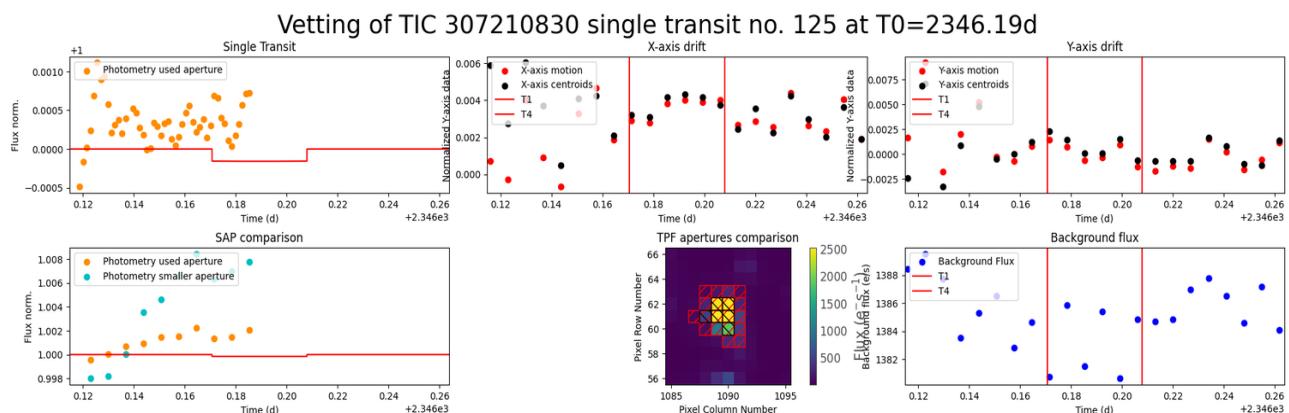


Figure 137: The single transit no. 124 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:06



Target ID: 307210830, 2346.12 - 2346.19 [BJD days]

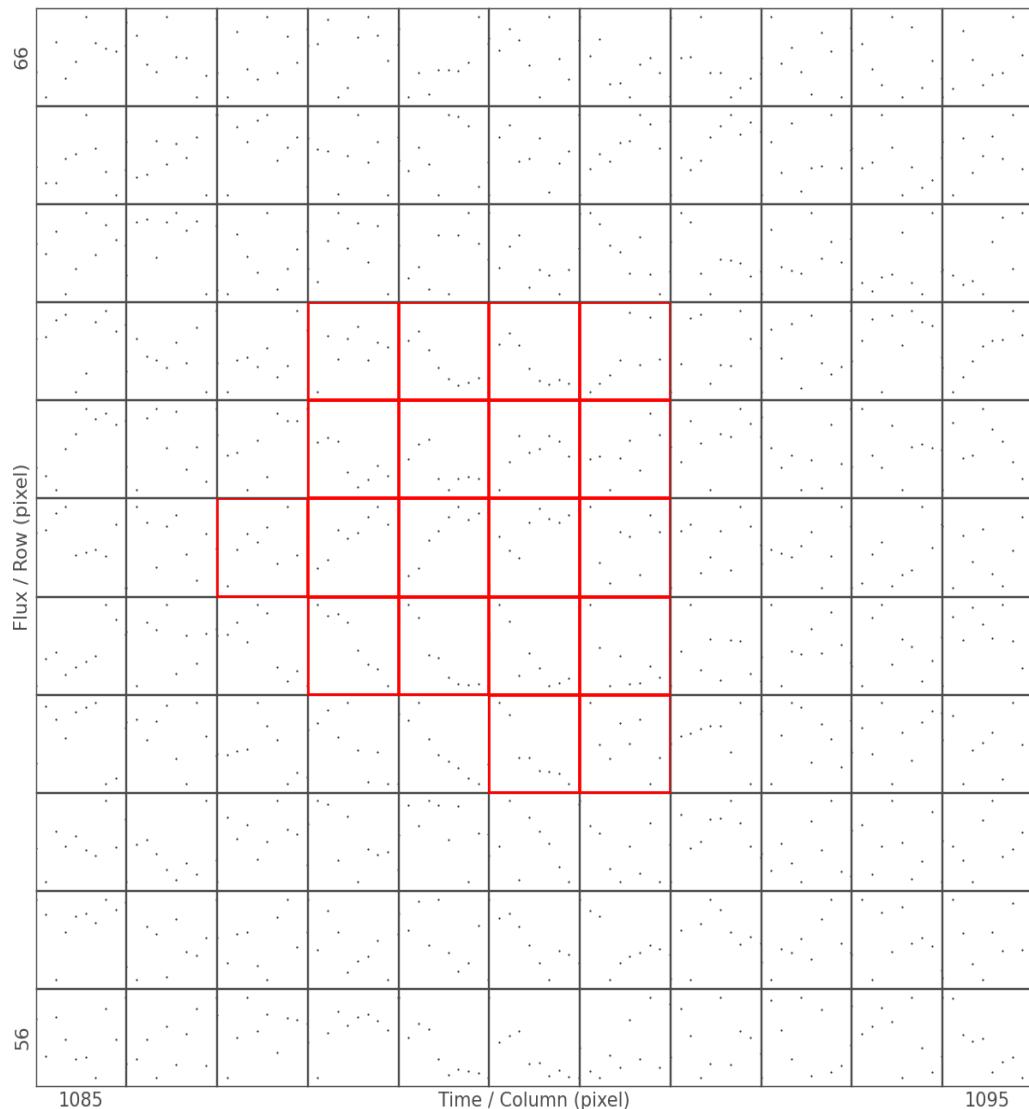
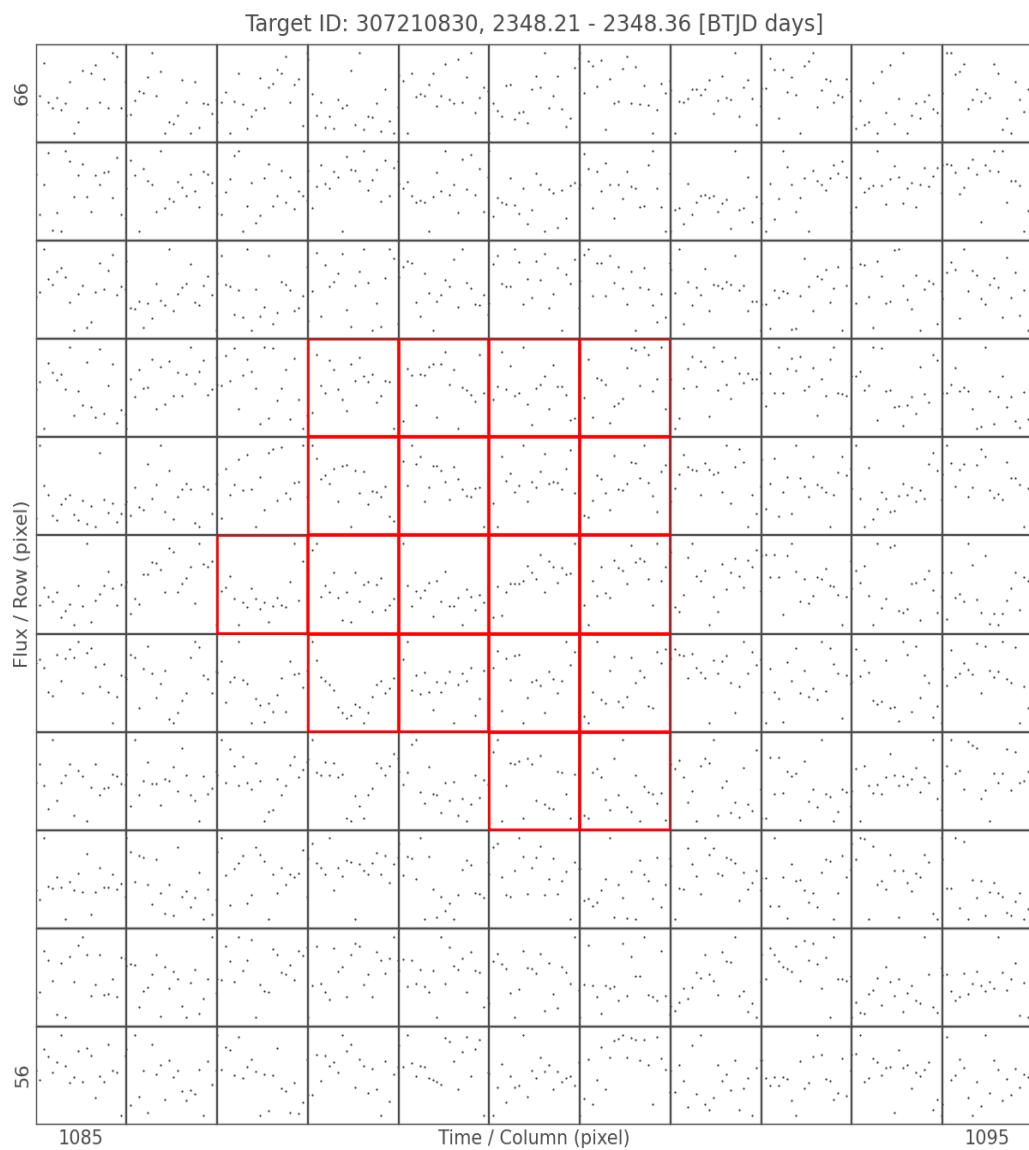
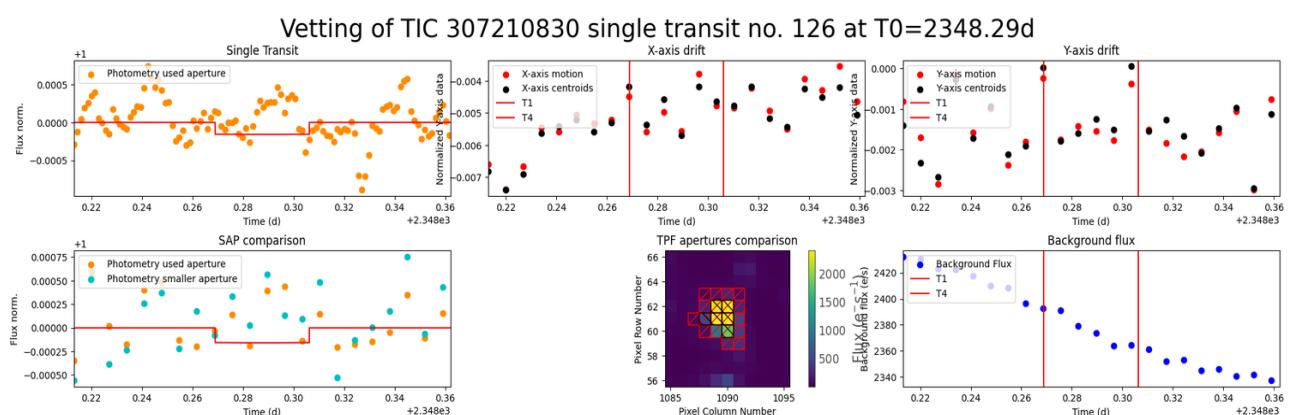


Figure 138: The single transit no. 125 vetting plots



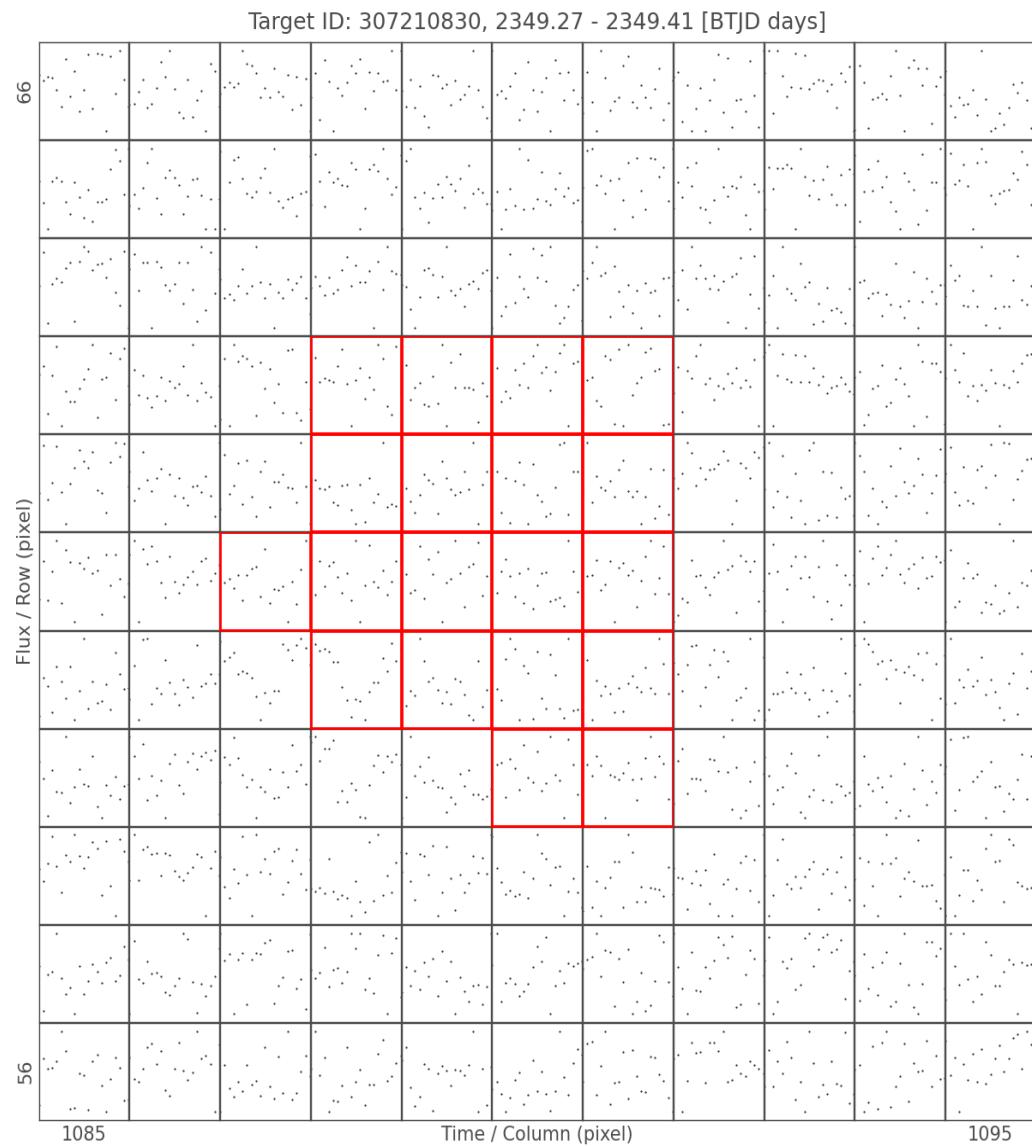
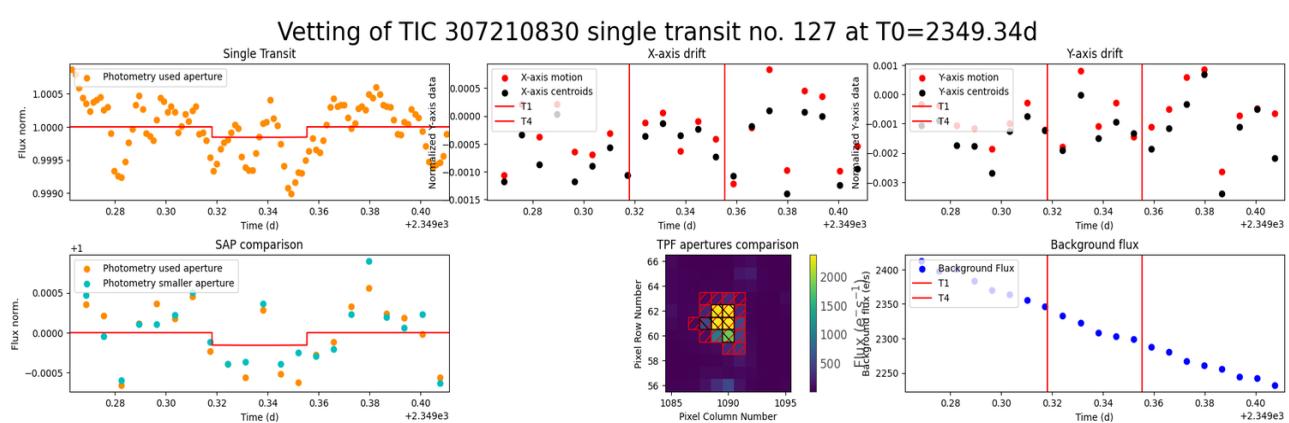
# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:06



**Figure 139:** The single transit no. 126 vetting plots

## WATSON Transits Validation Report: TIC 307210830



**Figure 140:** The single transit no. 127 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:07

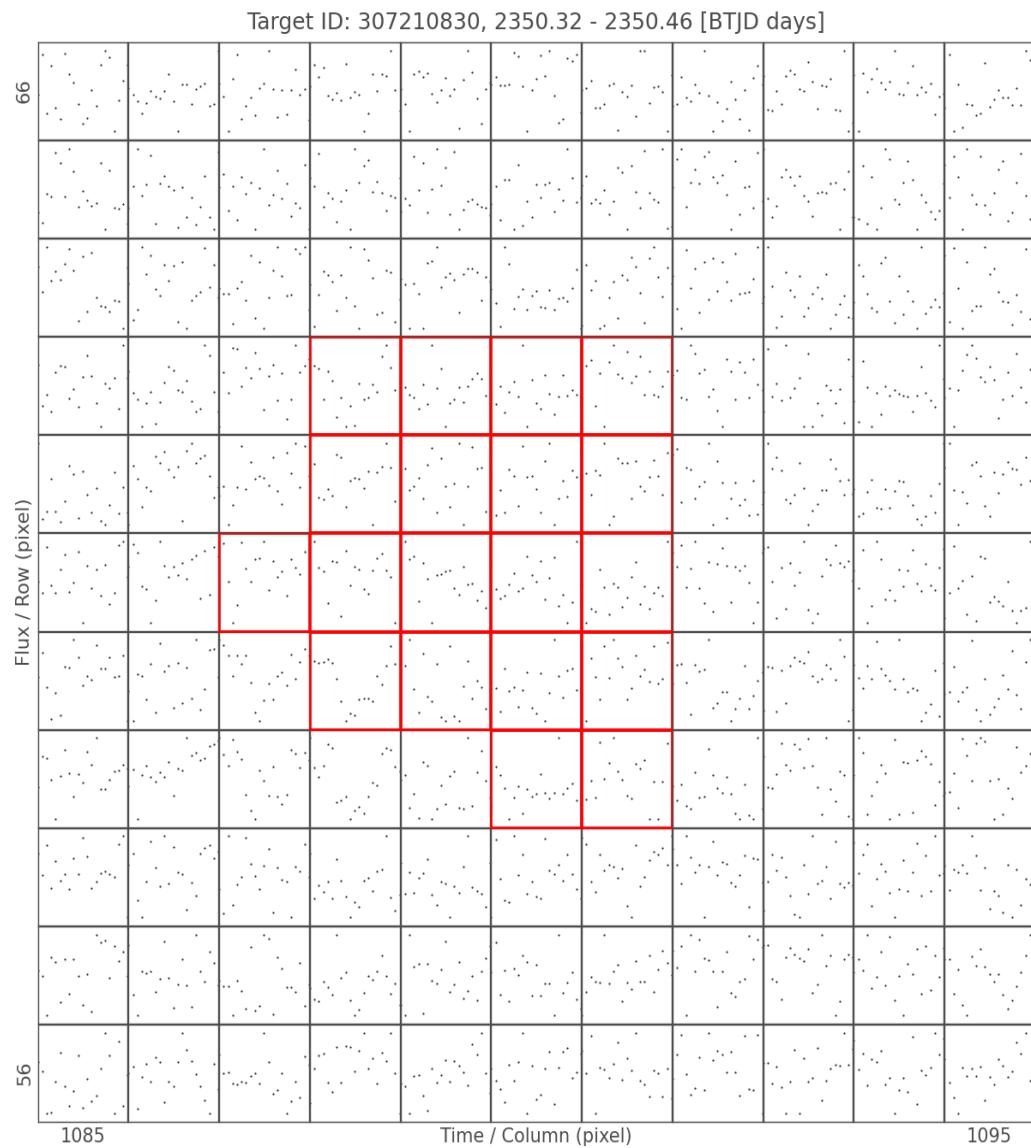
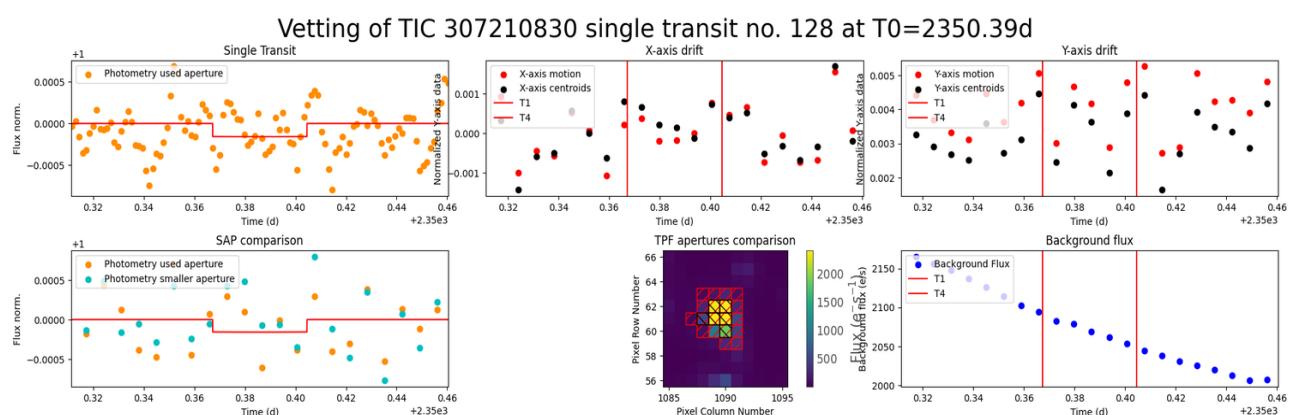
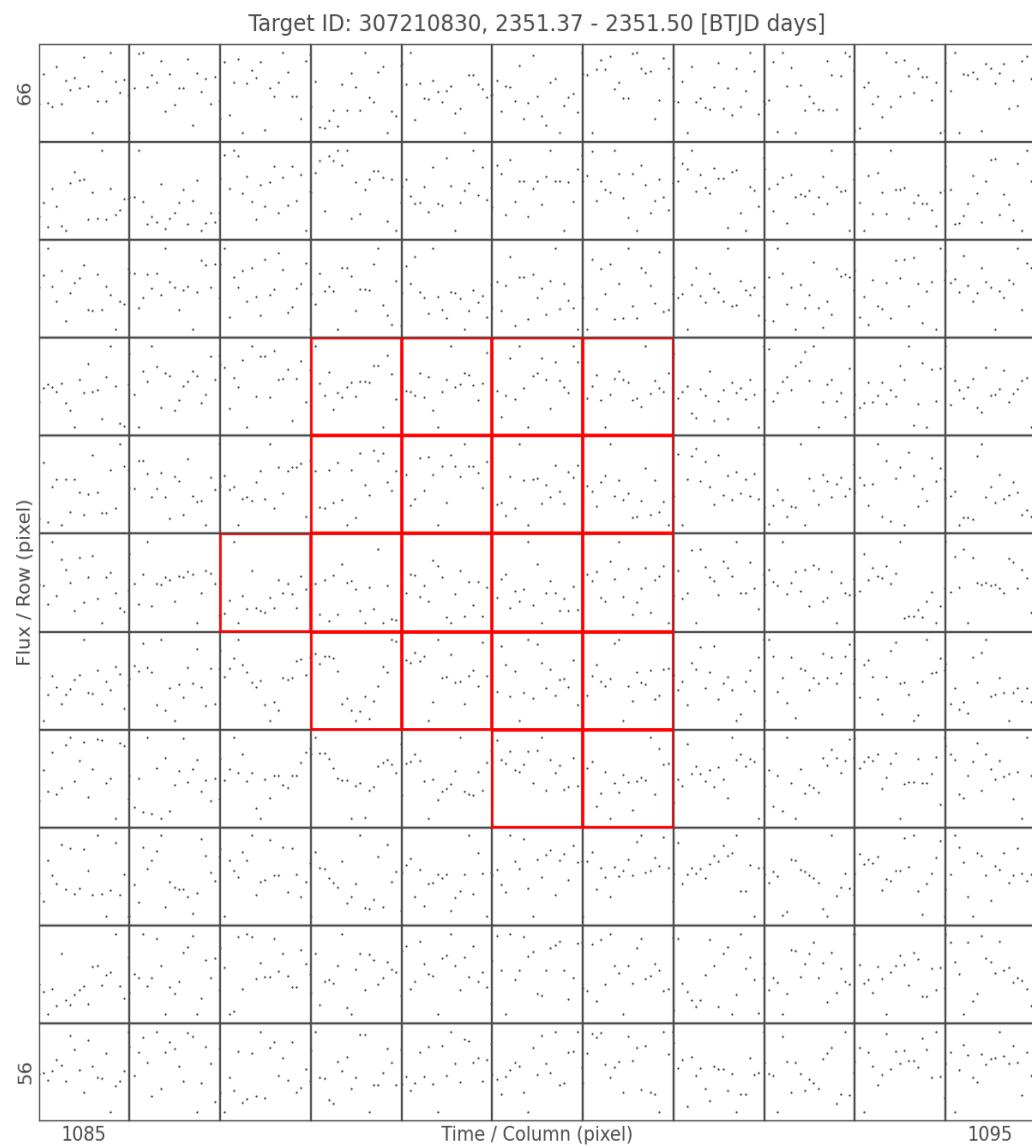
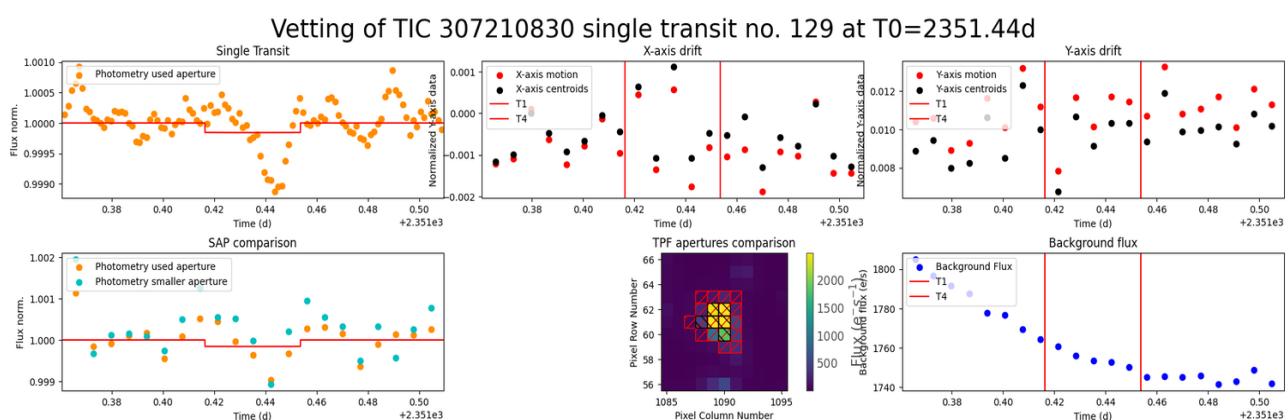


Figure 141: The single transit no. 128 vetting plots



**Figure 142:** The single transit no. 129 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:07

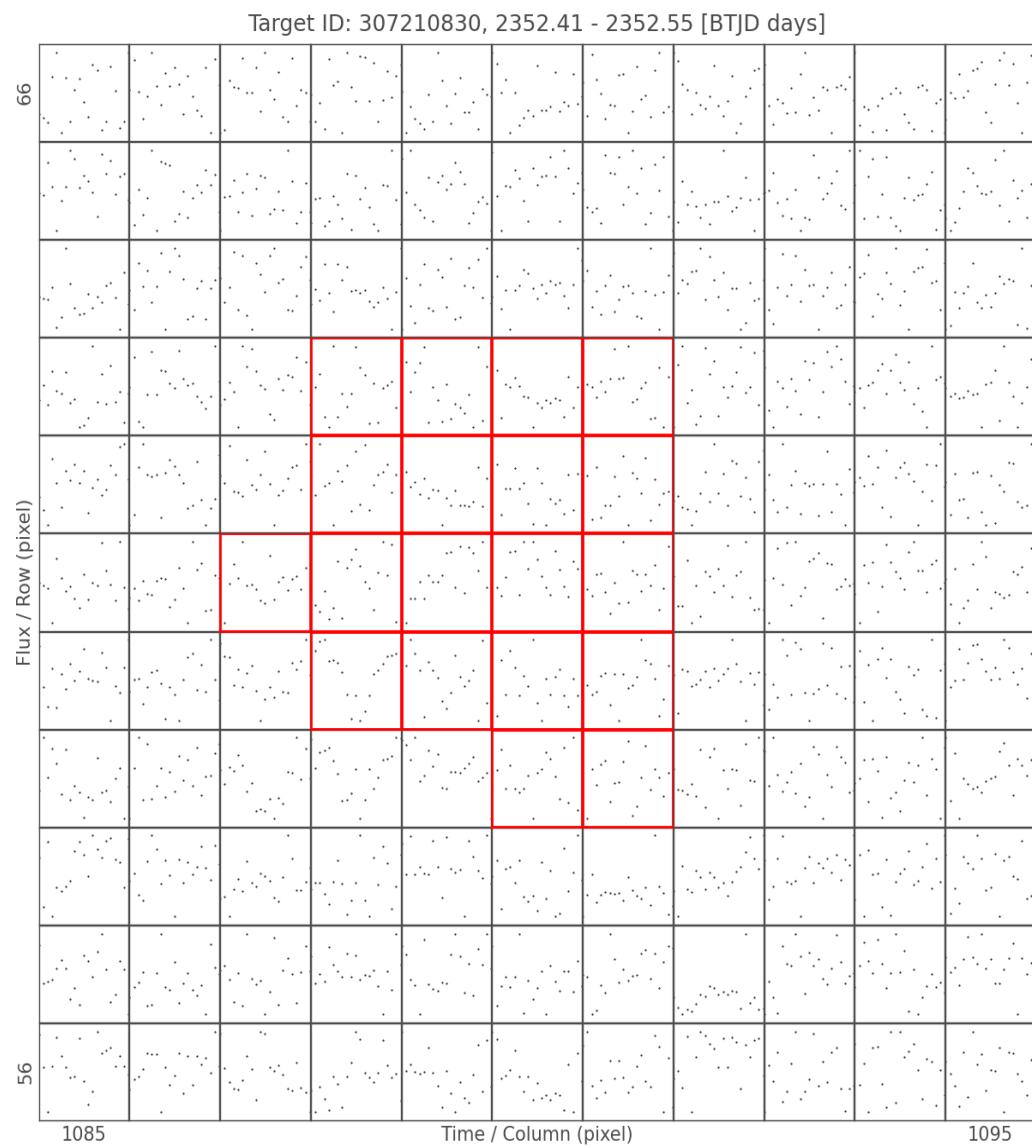
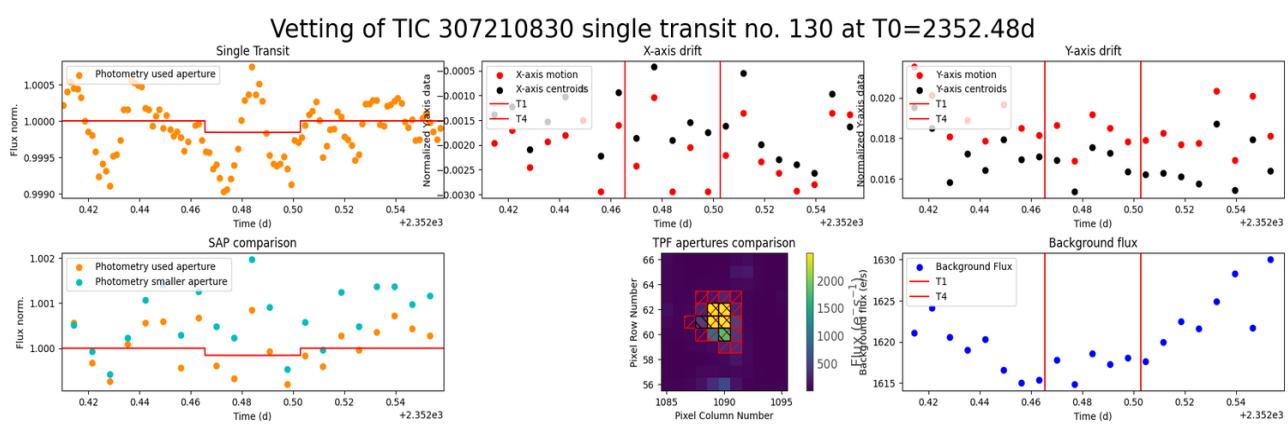
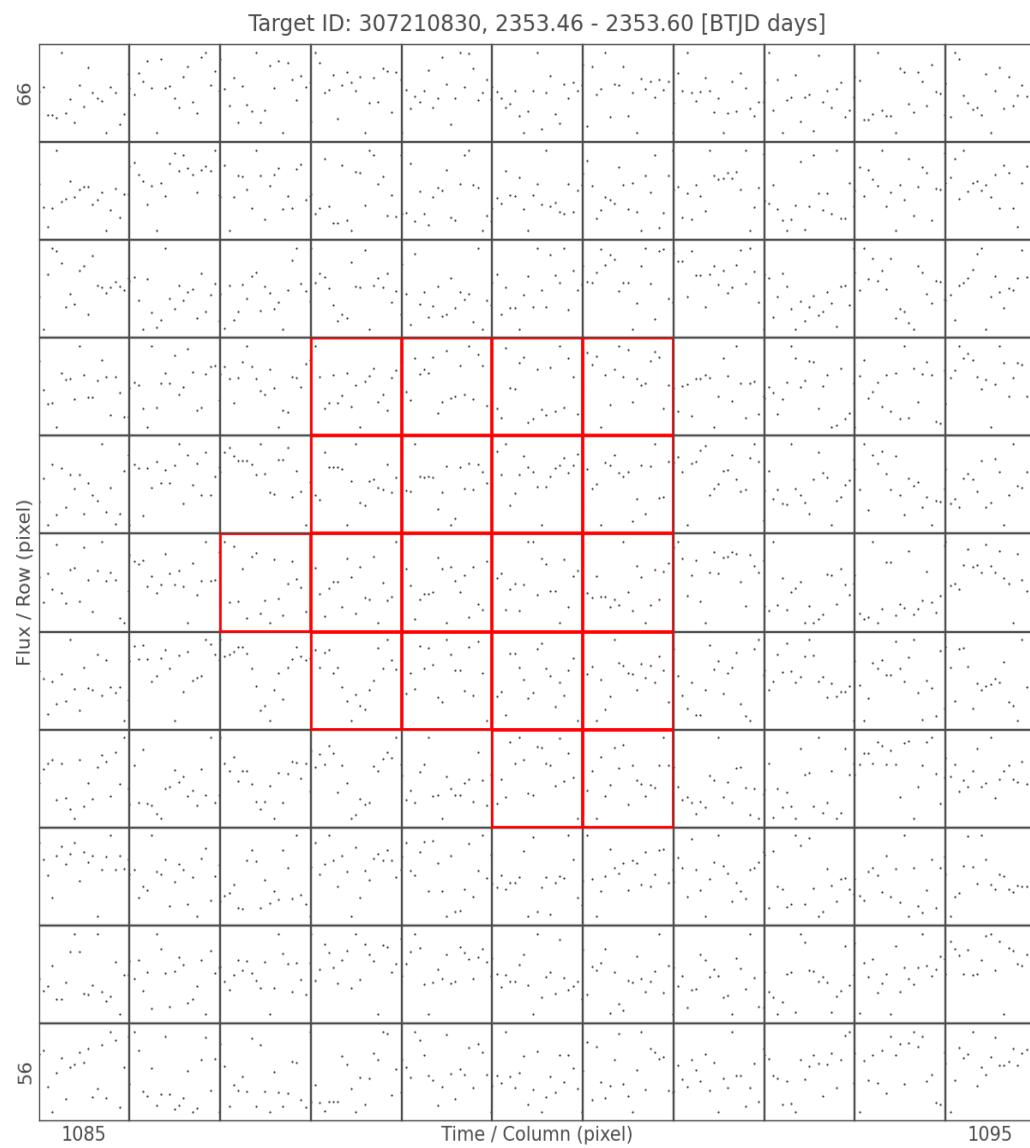
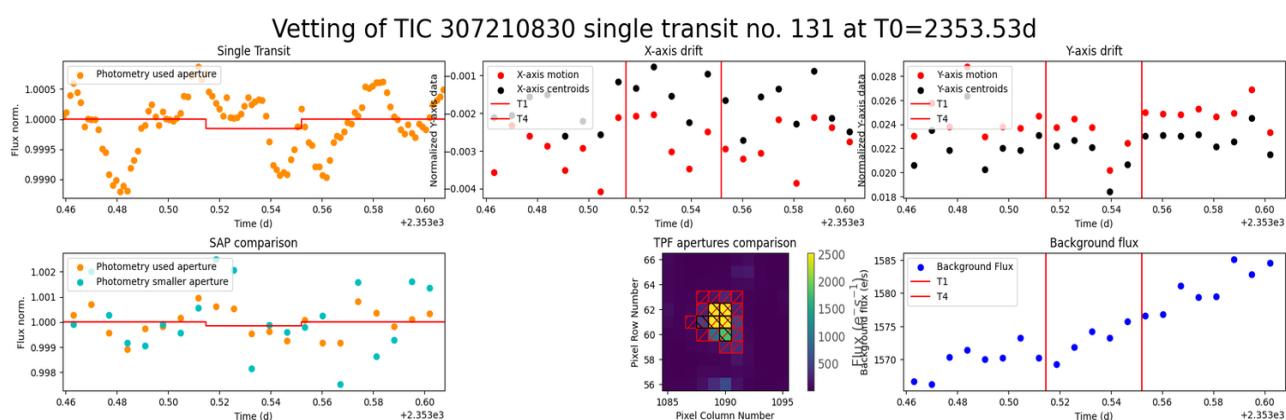


Figure 143: The single transit no. 130 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:07

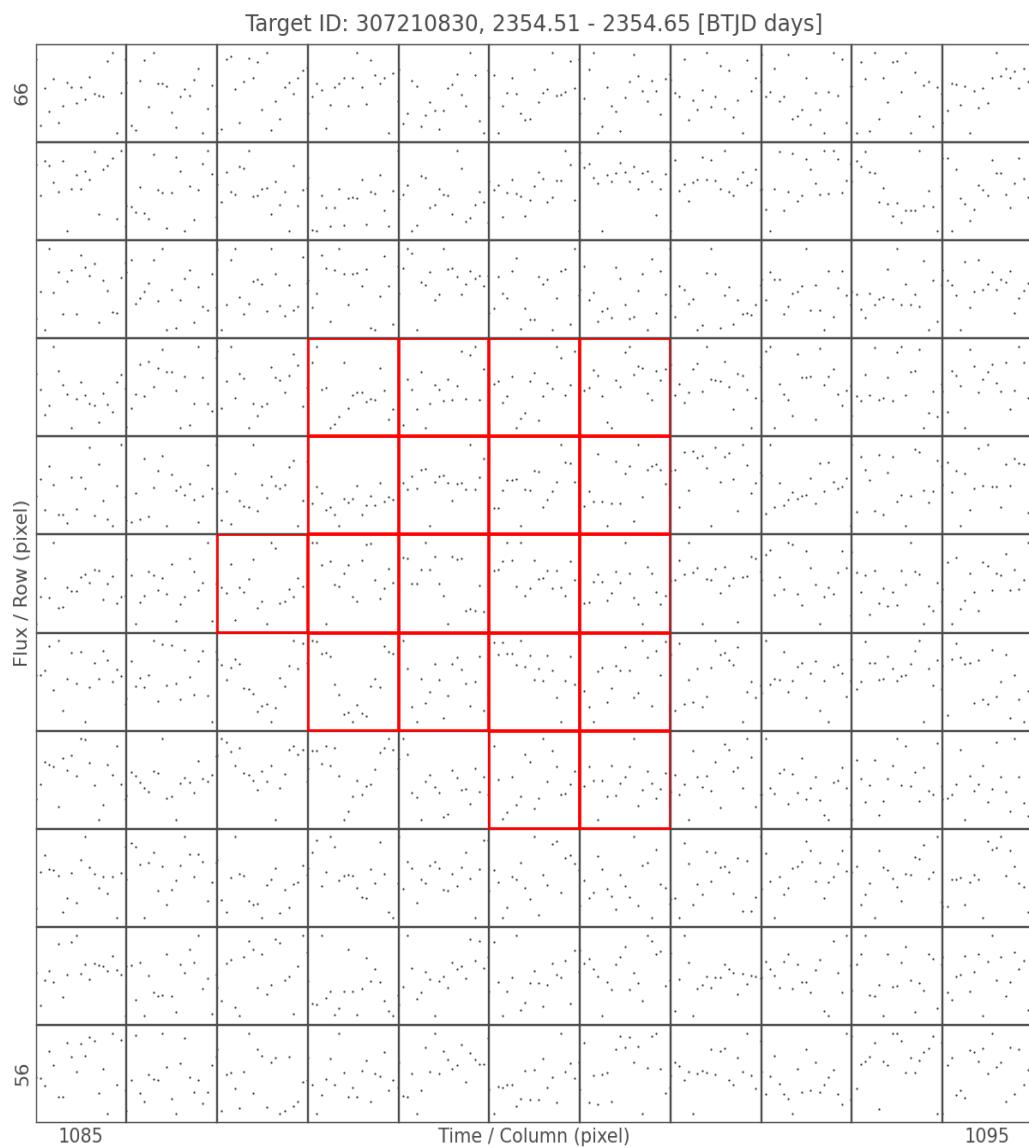
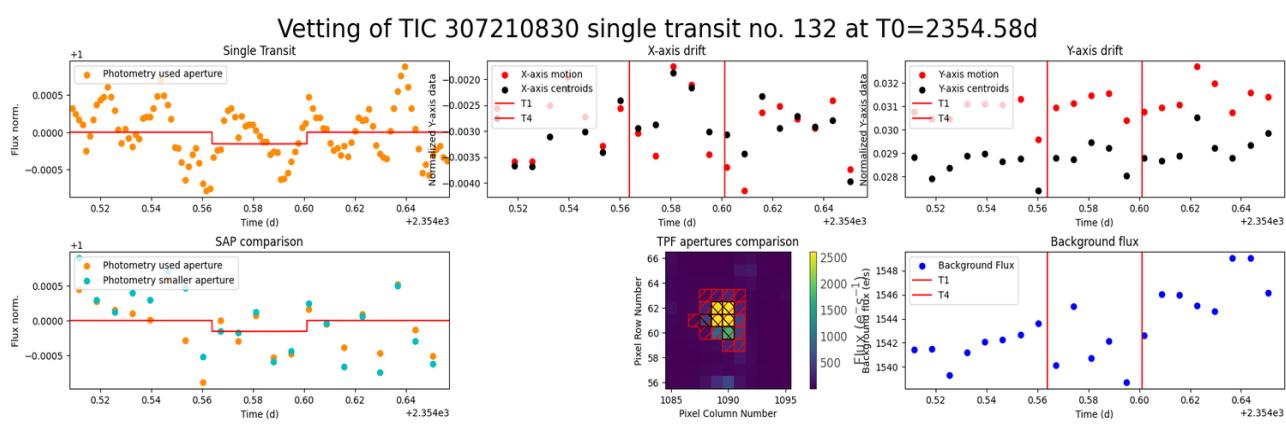


**Figure 144:** The single transit no. 131 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:07

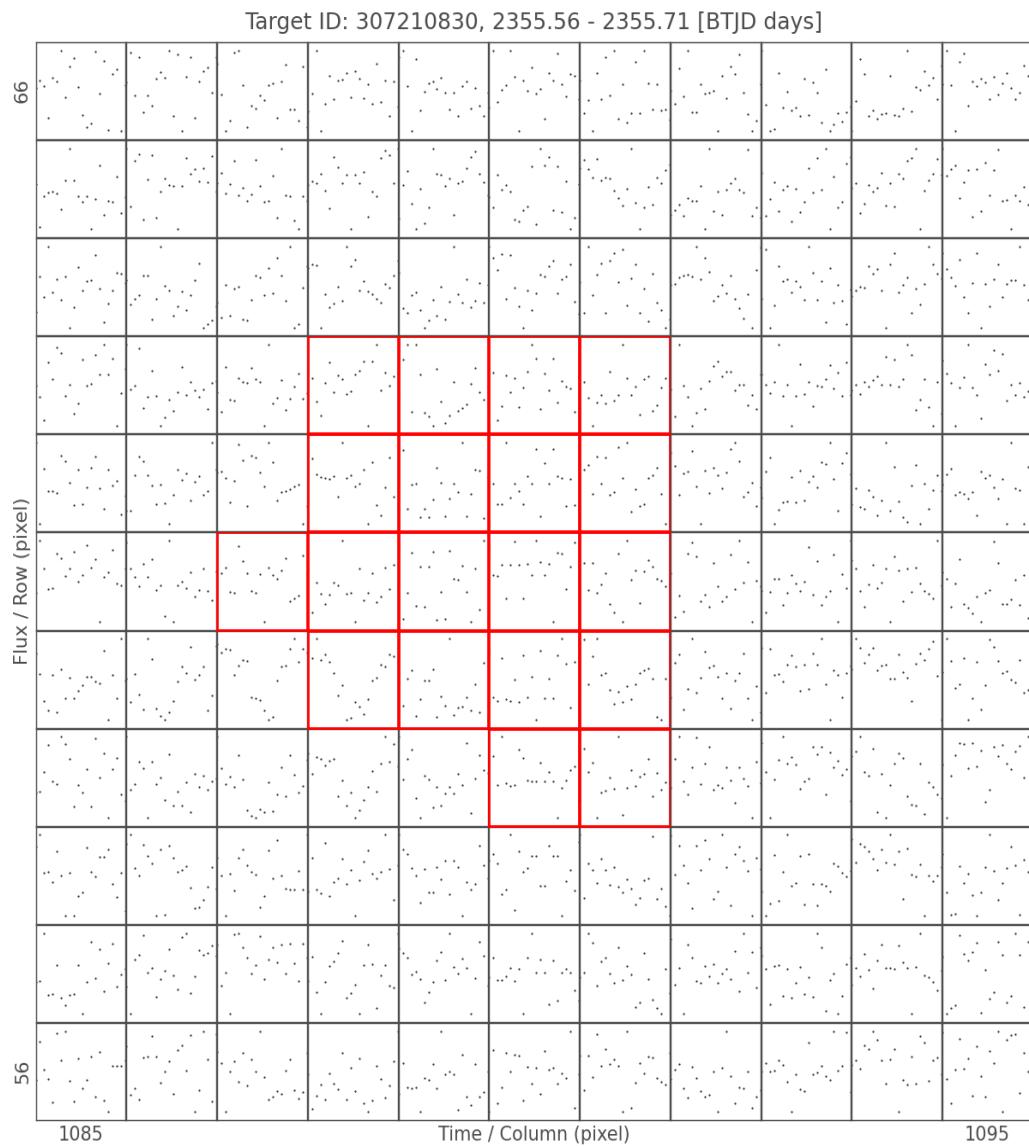
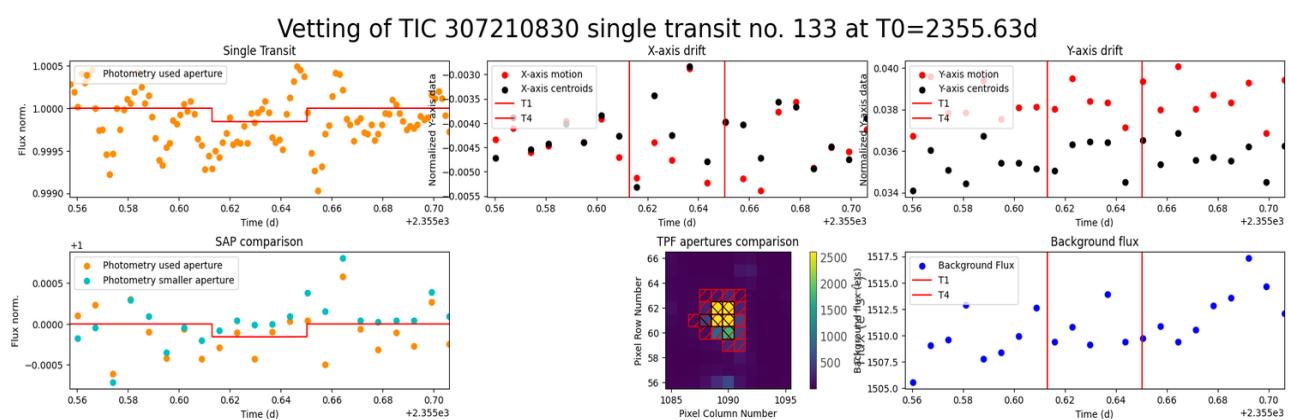


**Figure 145:** The single transit no. 132 vetting plots



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**Figure 146:** The single transit no. 133 vetting plots



## WATSON Transits Validation Report: TIC 307210830

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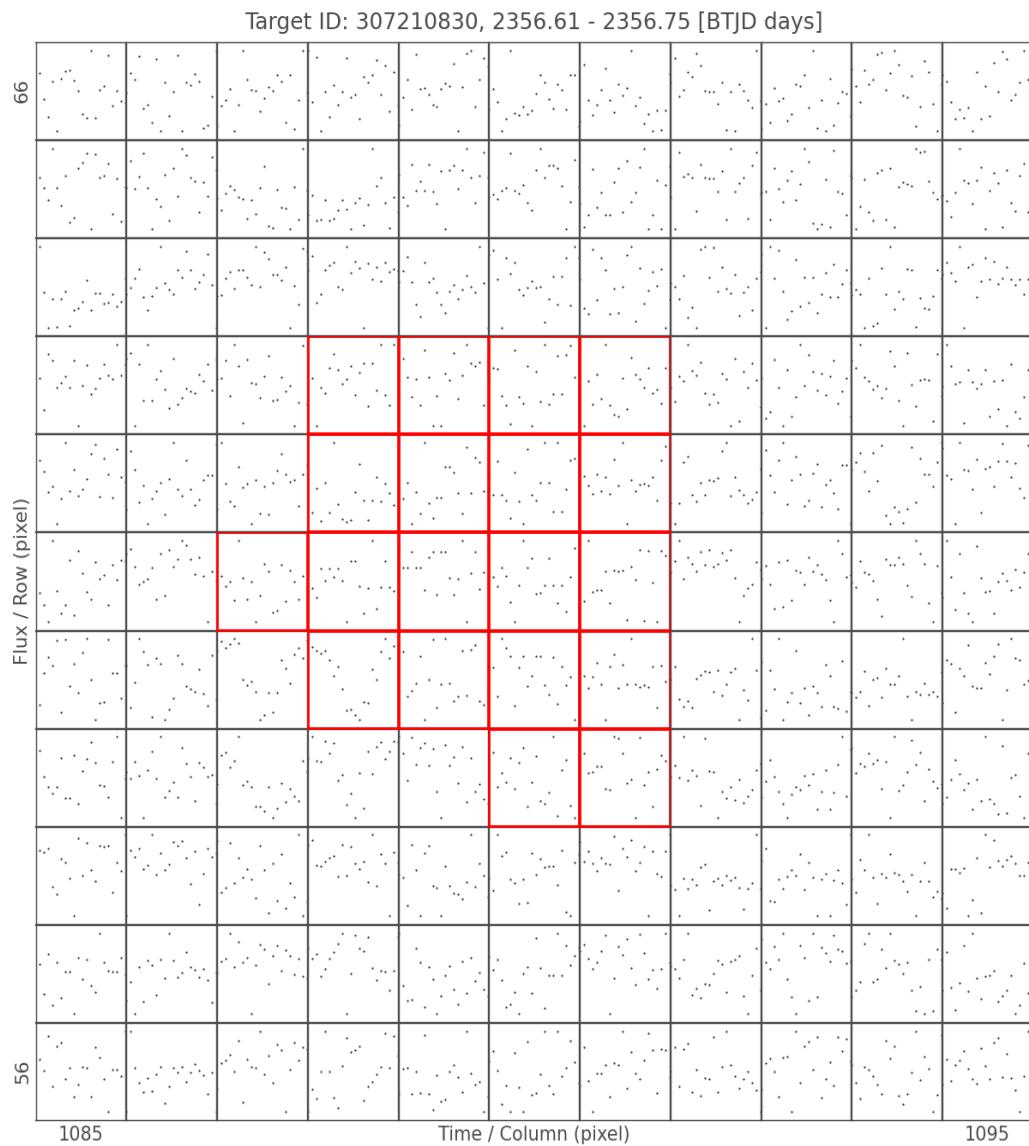
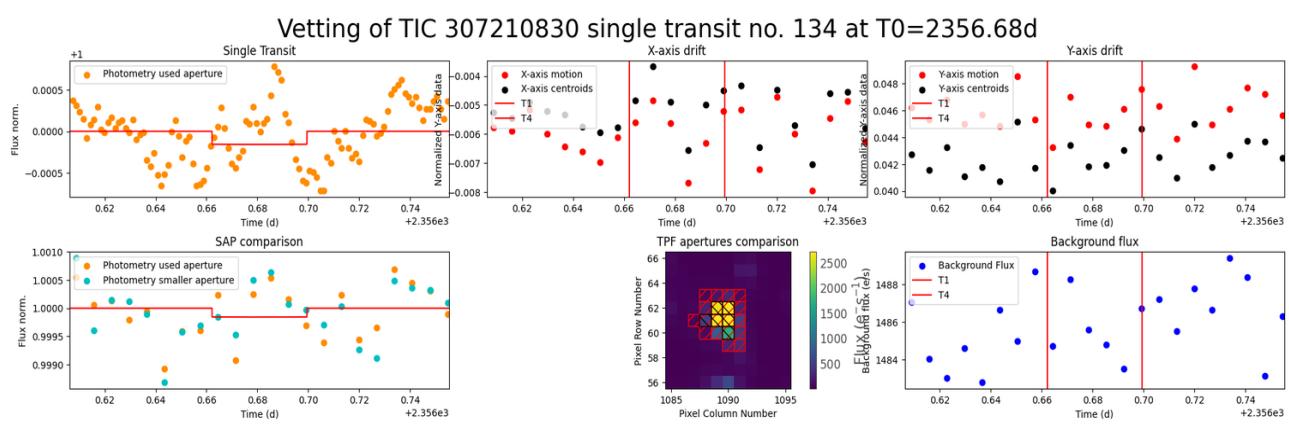
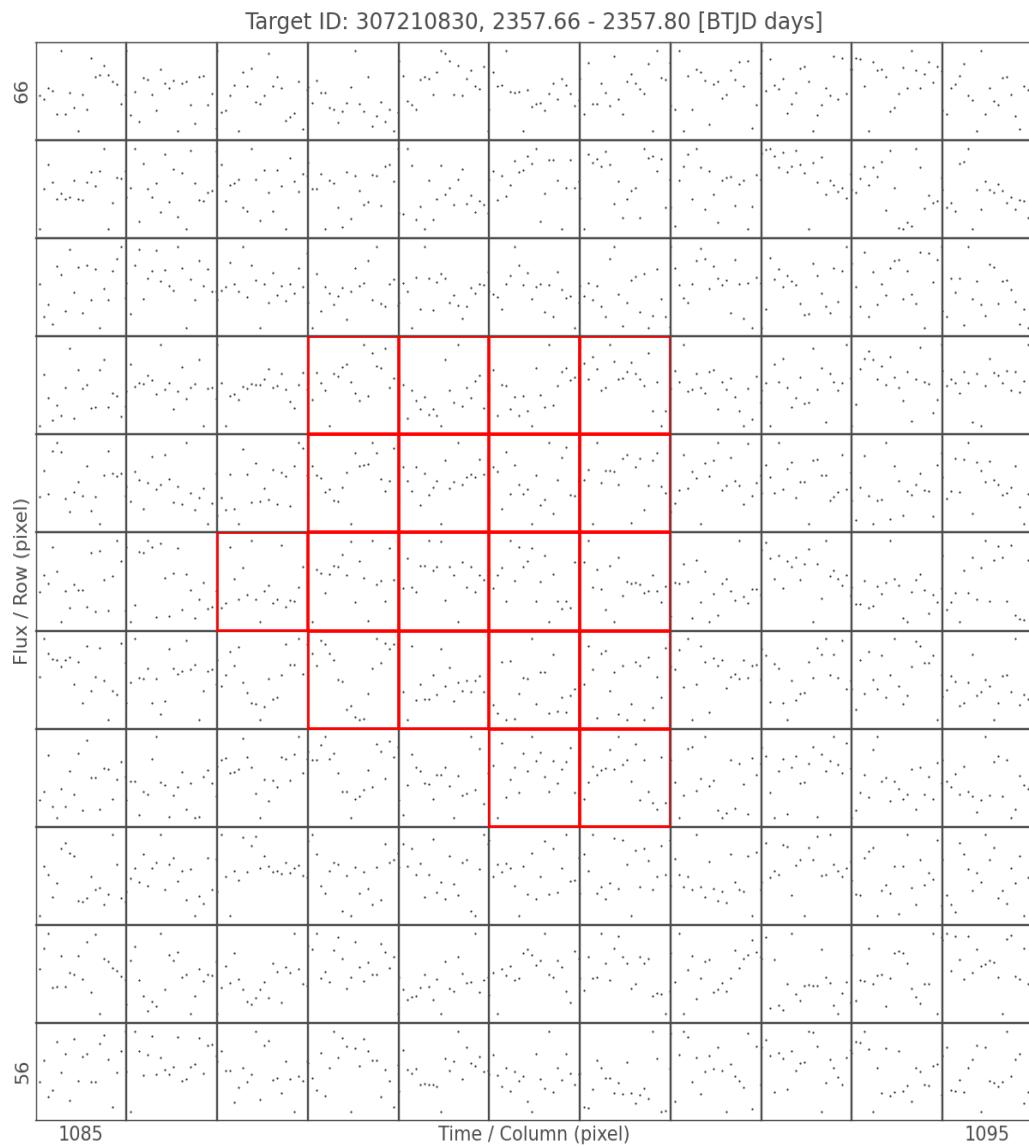
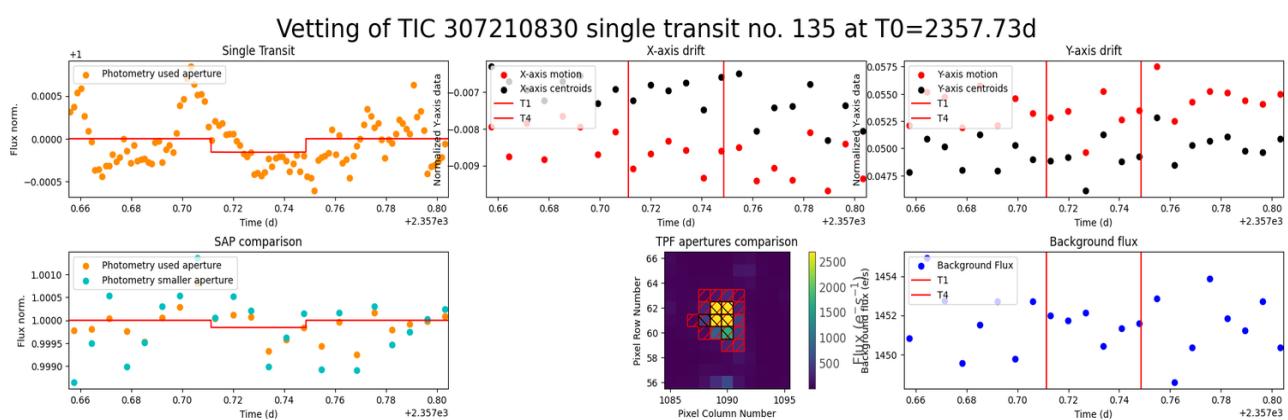


Figure 147: The single transit no. 134 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:08

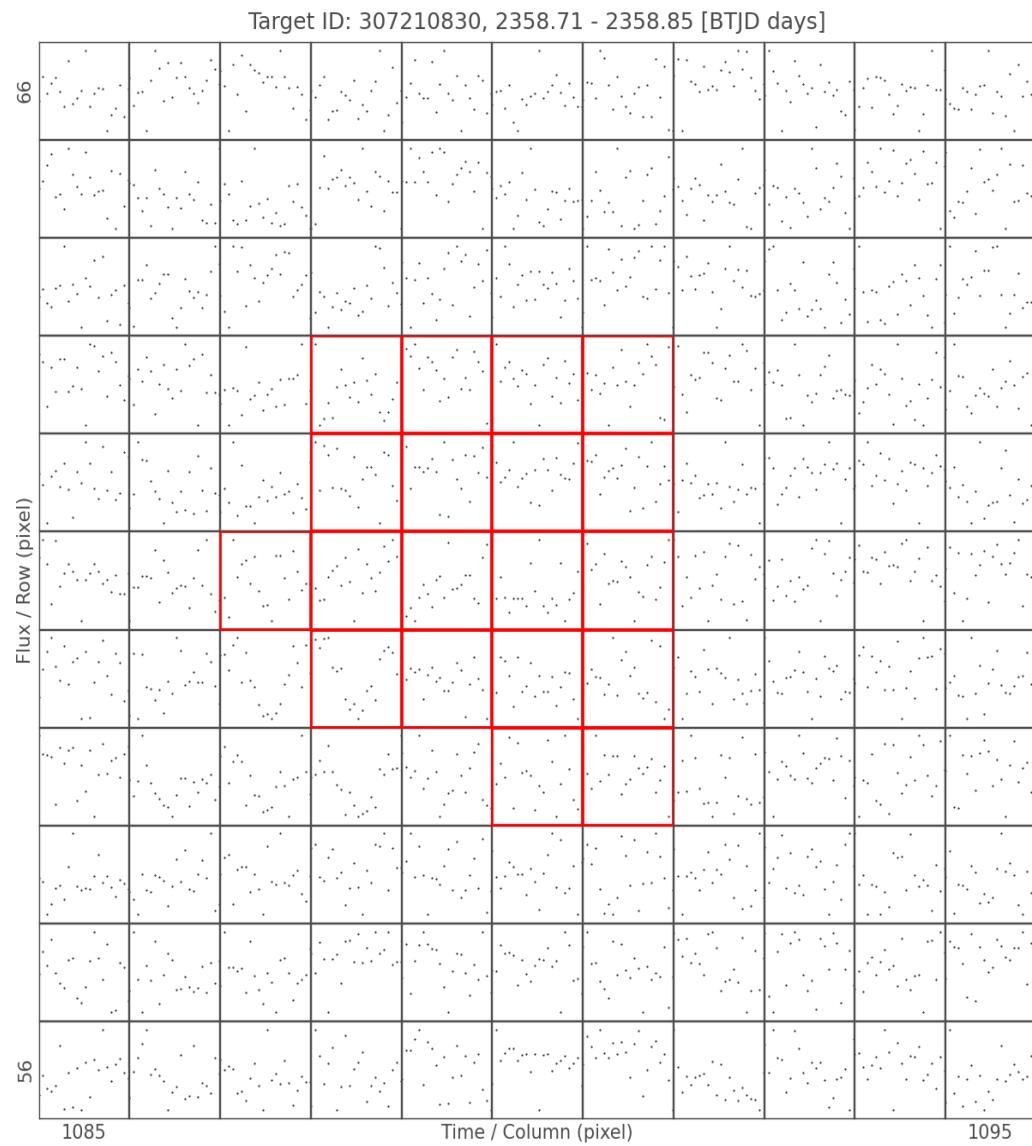
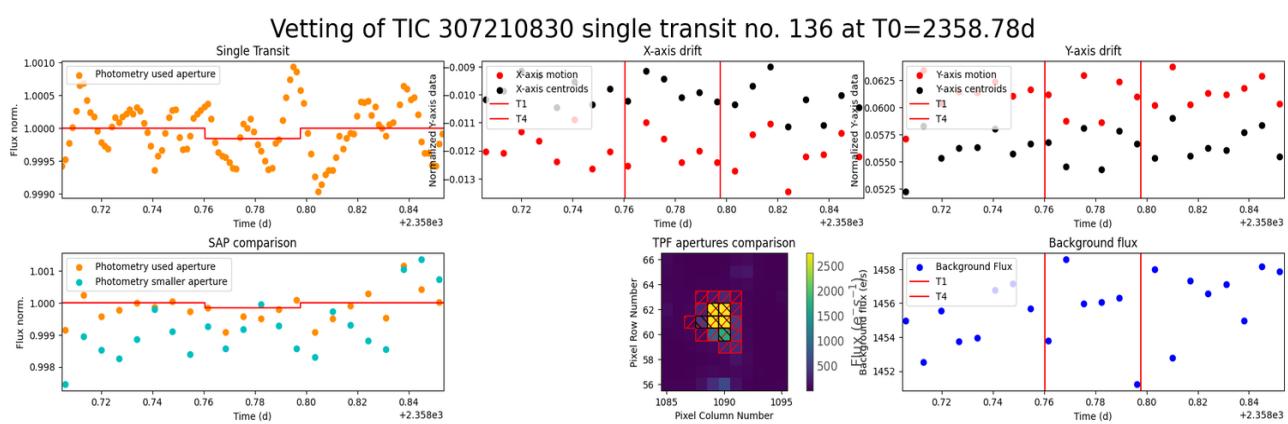


**Figure 148:** The single transit no. 135 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:08

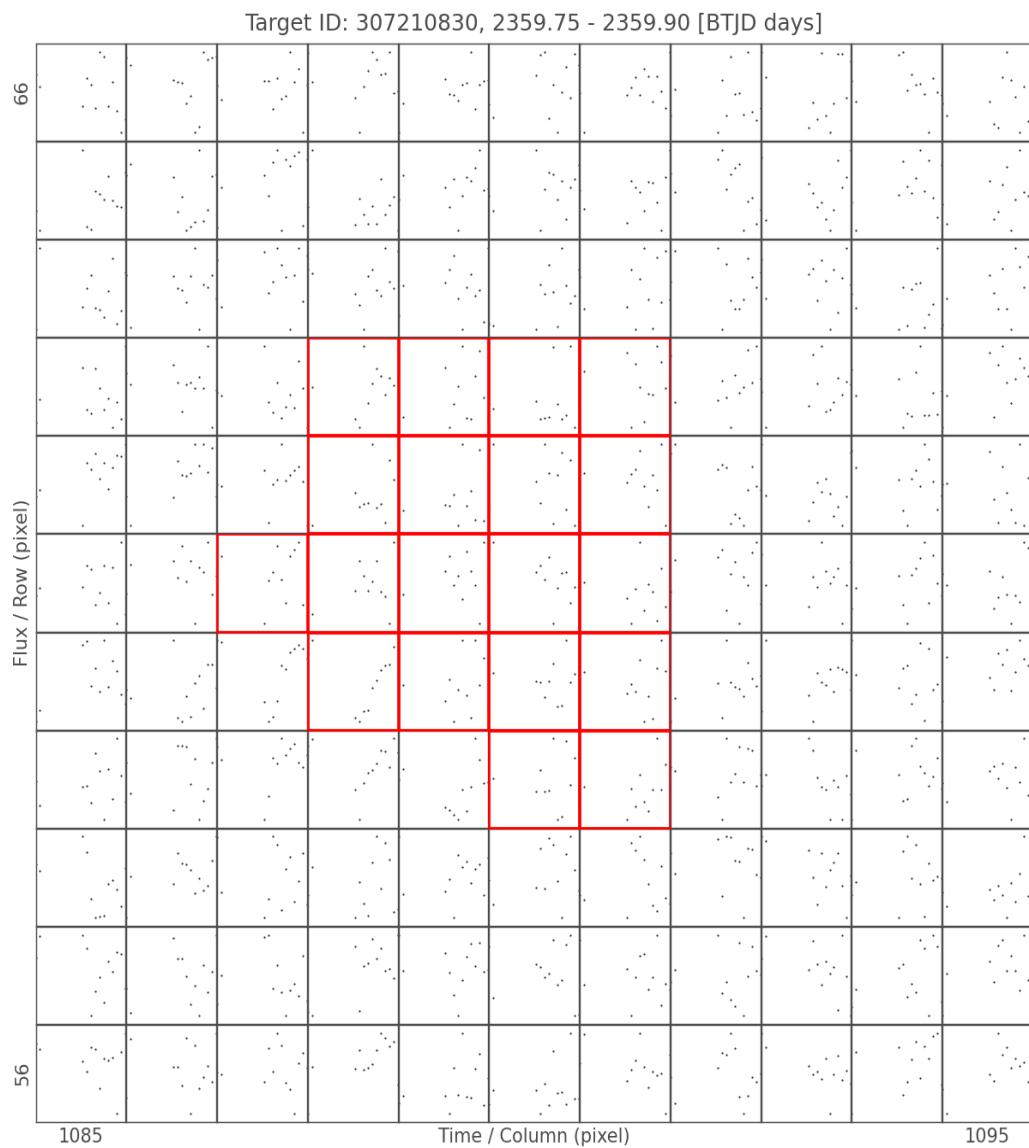
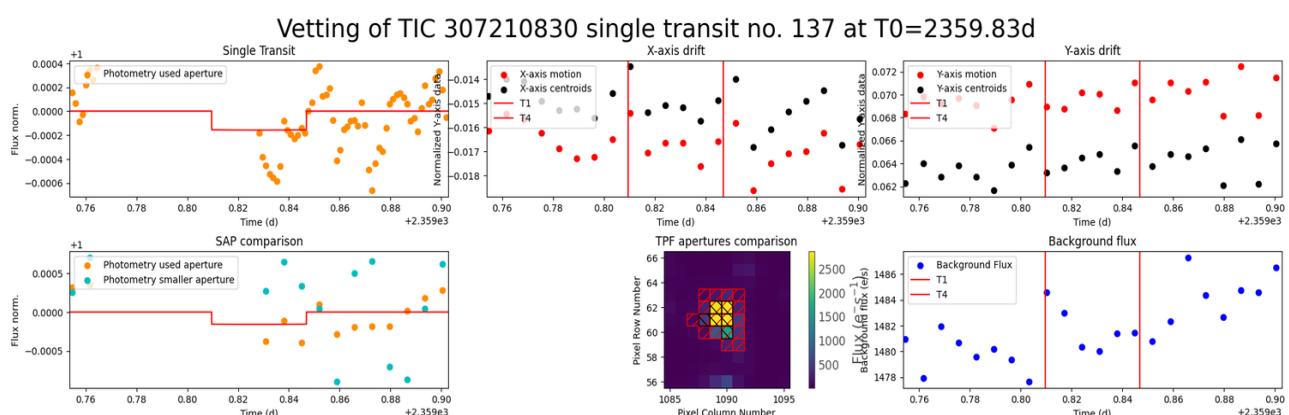


**Figure 149:** The single transit no. 136 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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**Figure 150:** The single transit no. 137 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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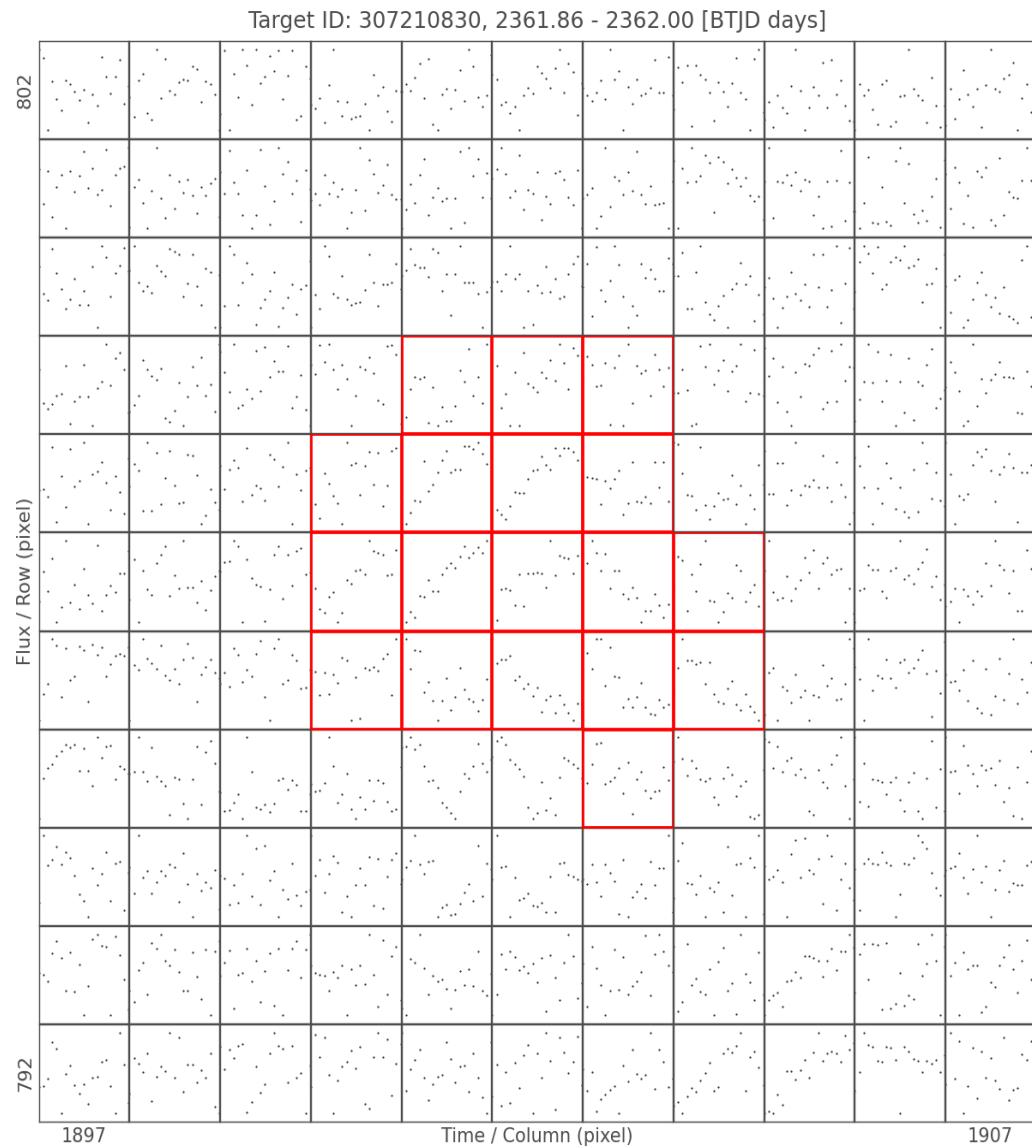
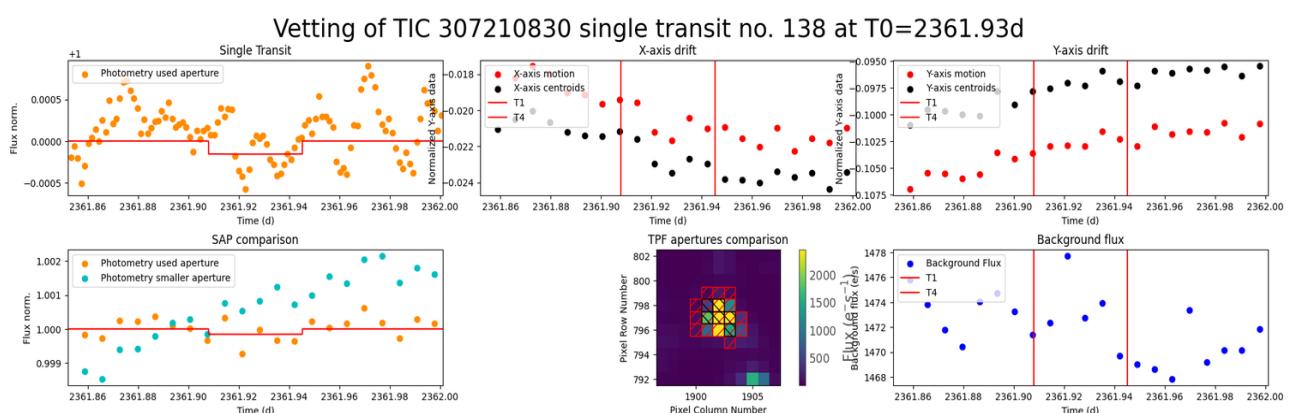


Figure 151: The single transit no. 138 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:09

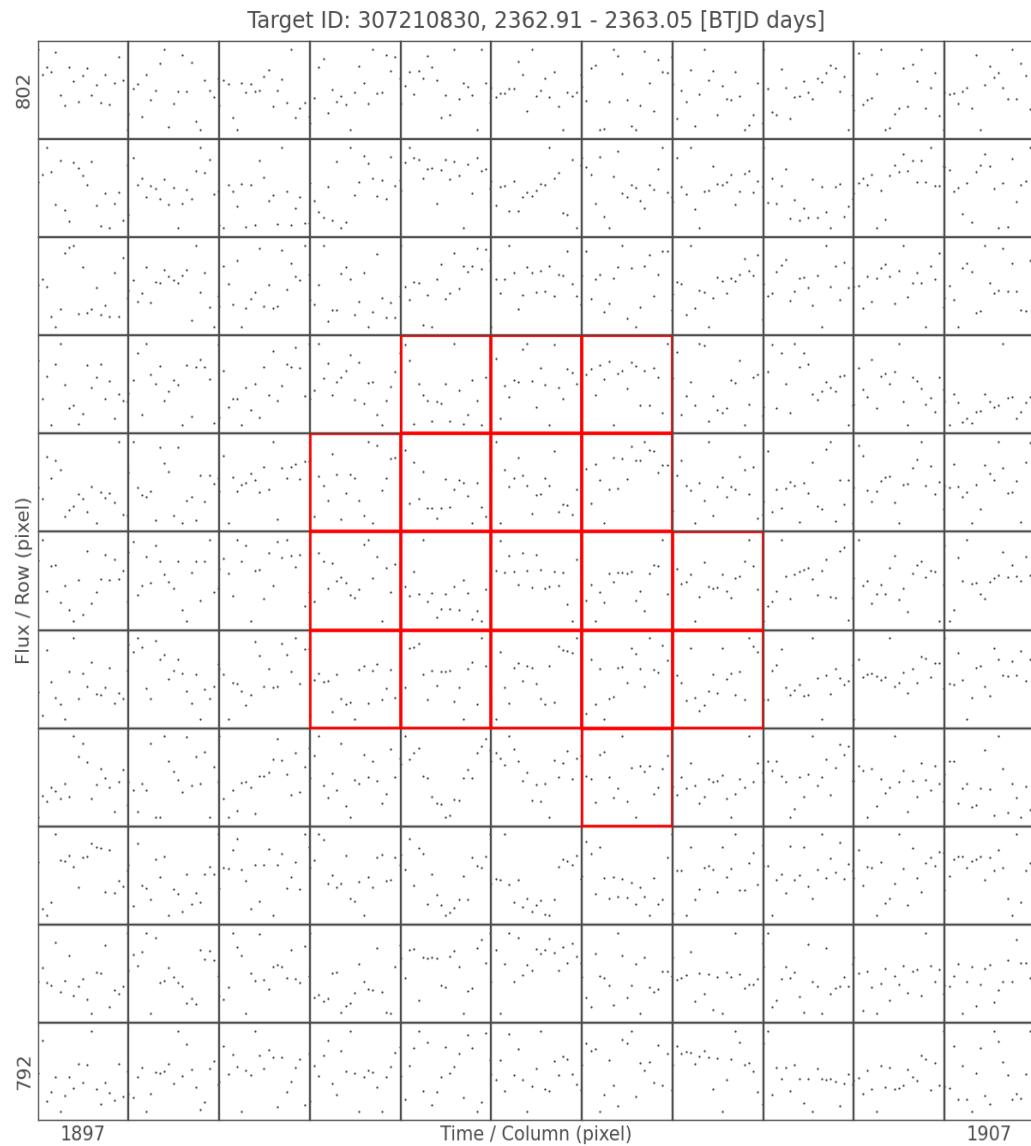
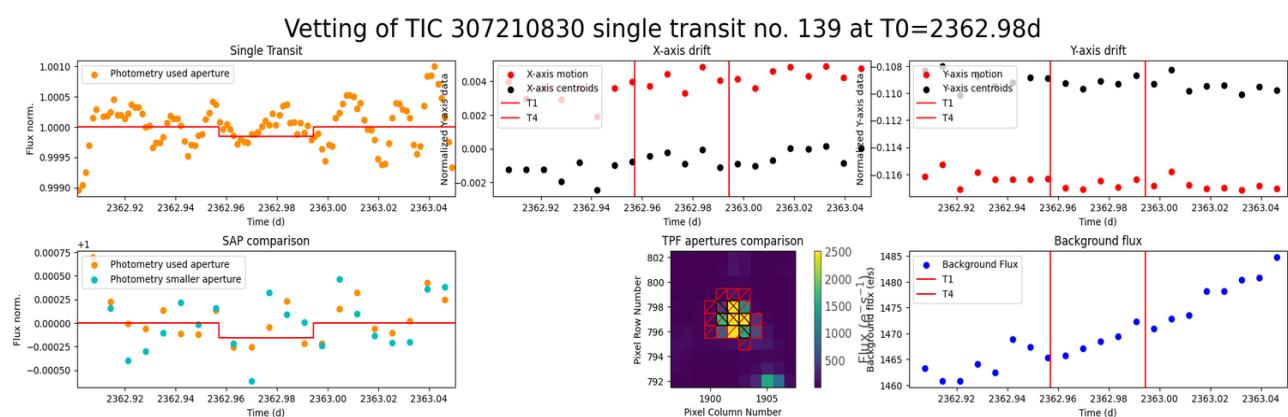
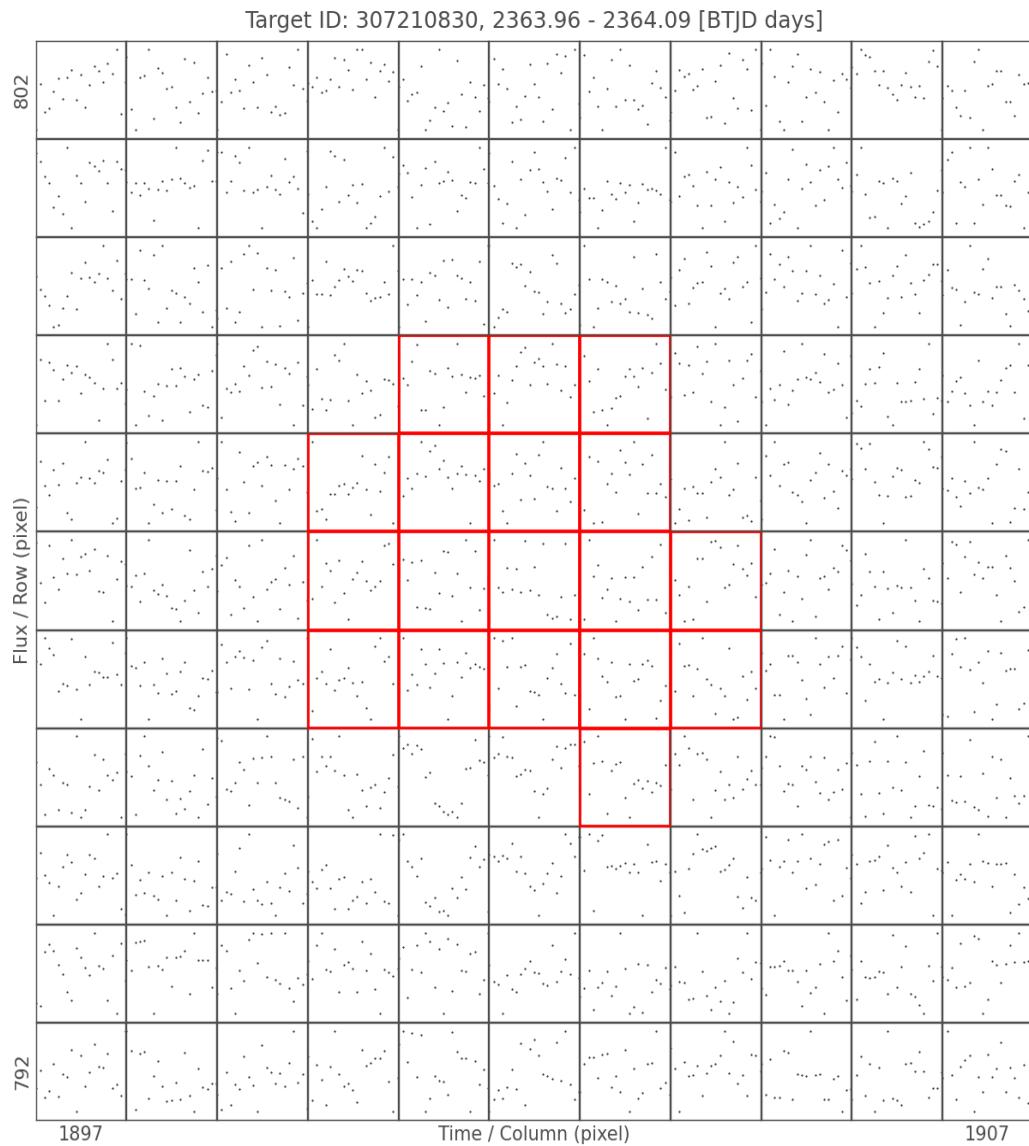
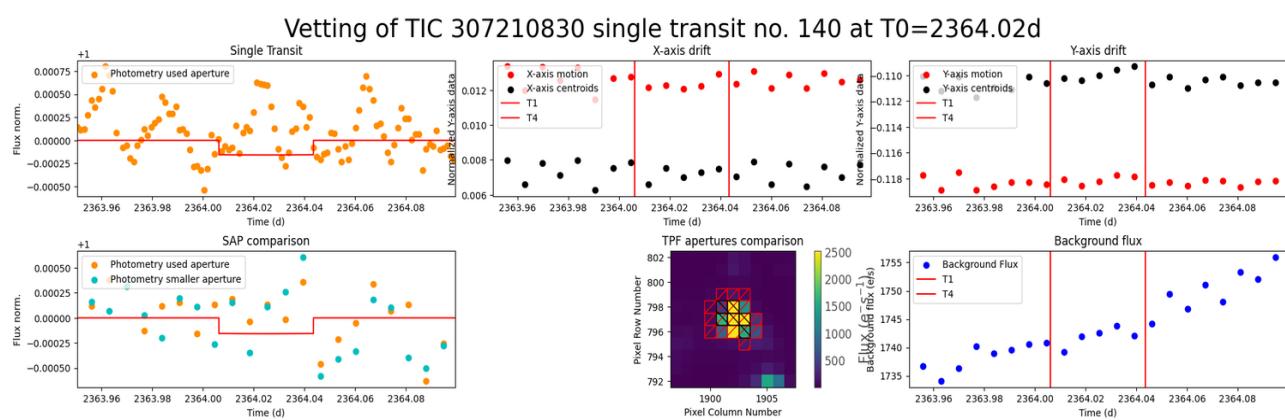


Figure 152: The single transit no. 139 vetting plots

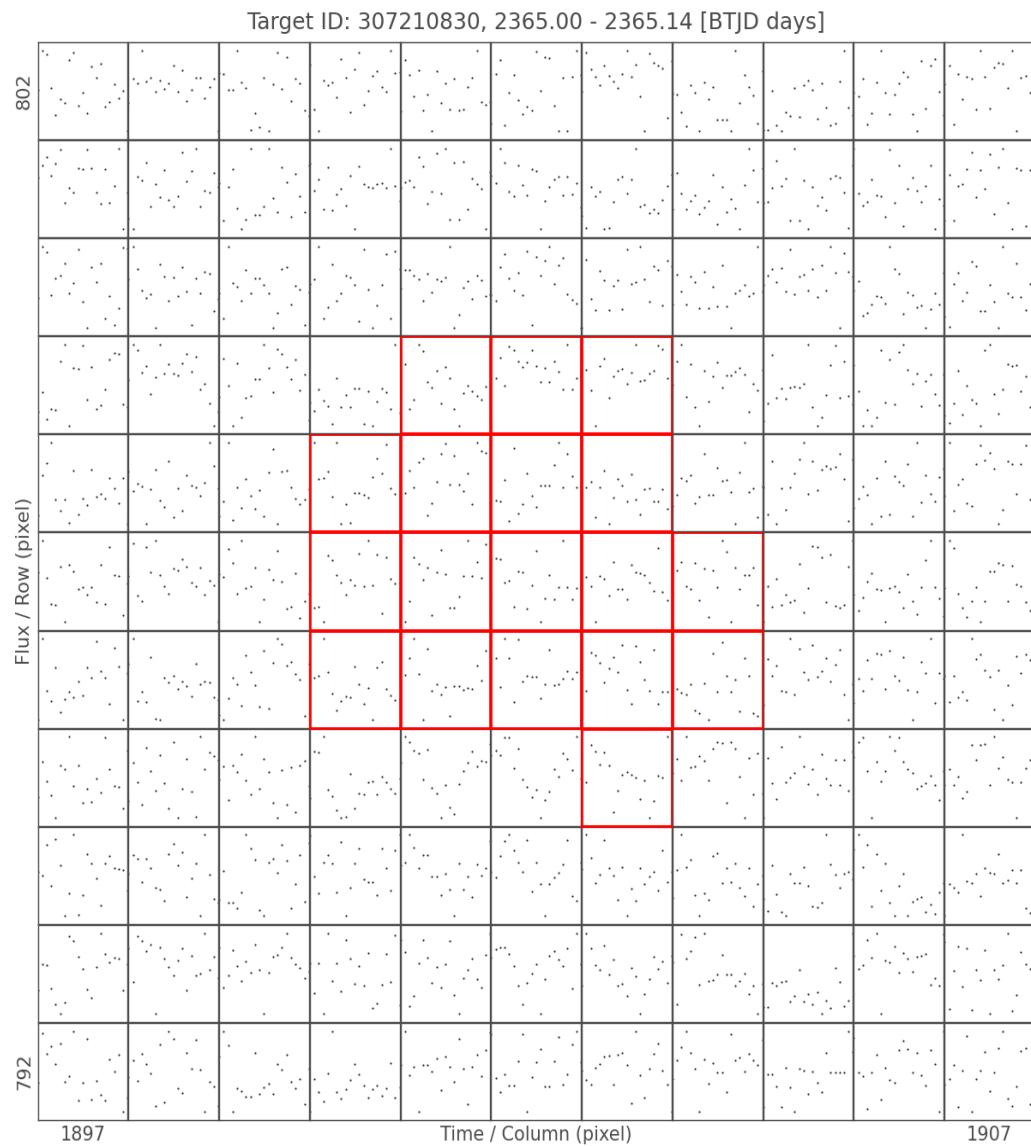
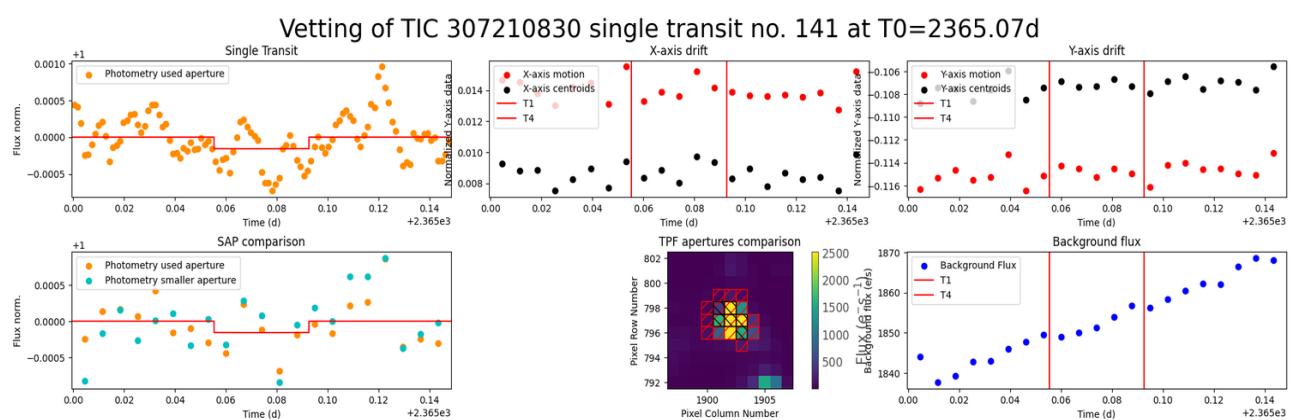


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**Figure 153:** The single transit no. 140 vetting plots



**Figure 154:** The single transit no. 141 vetting plots



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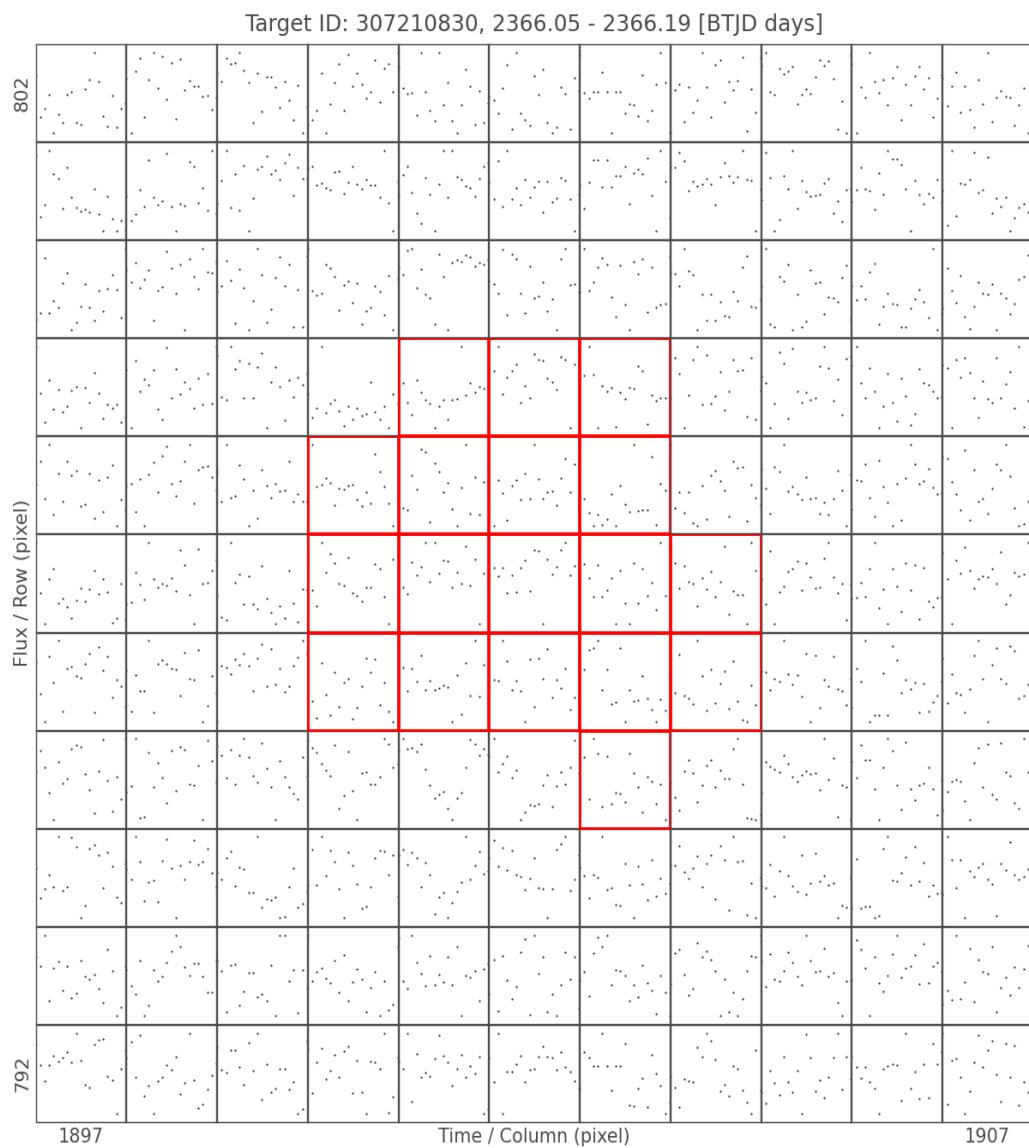
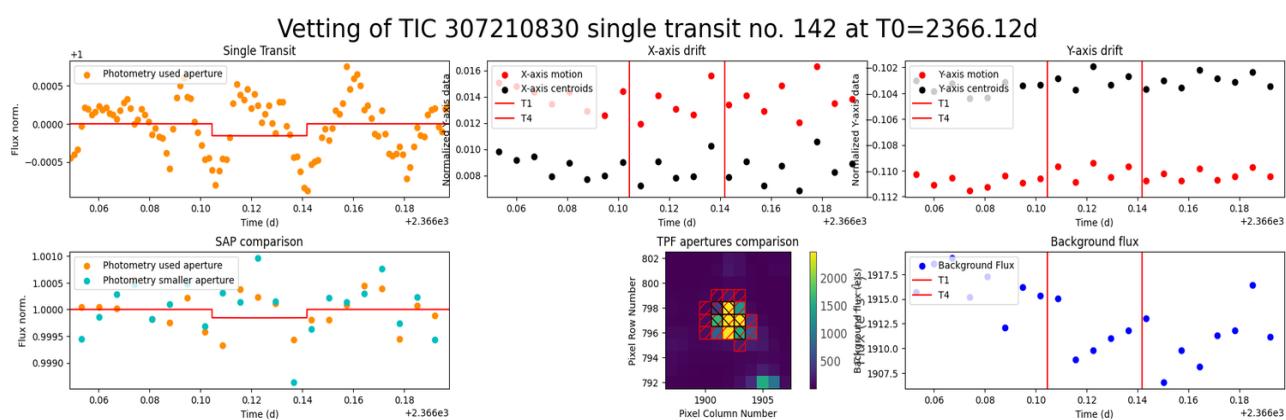


Figure 155: The single transit no. 142 vetting plots



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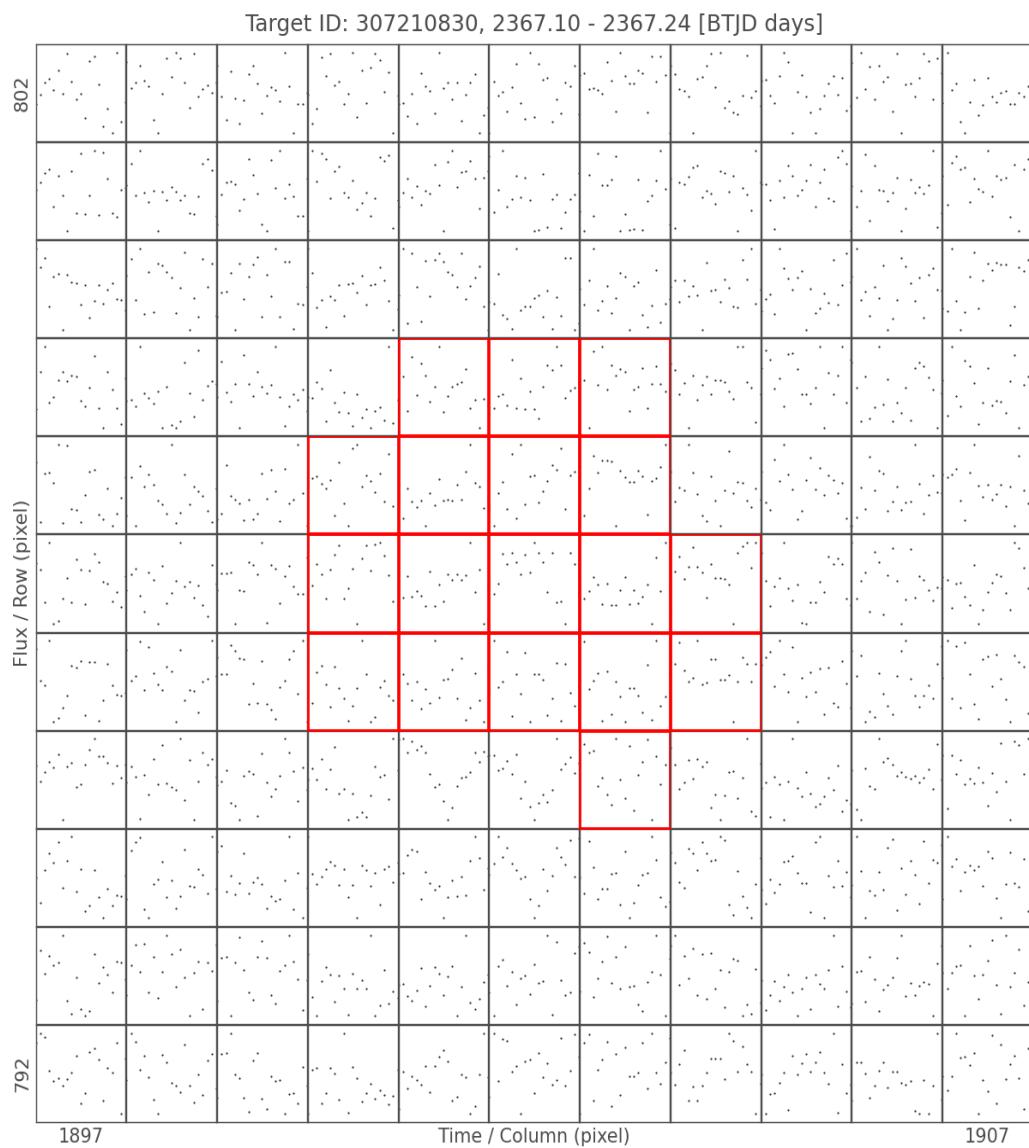
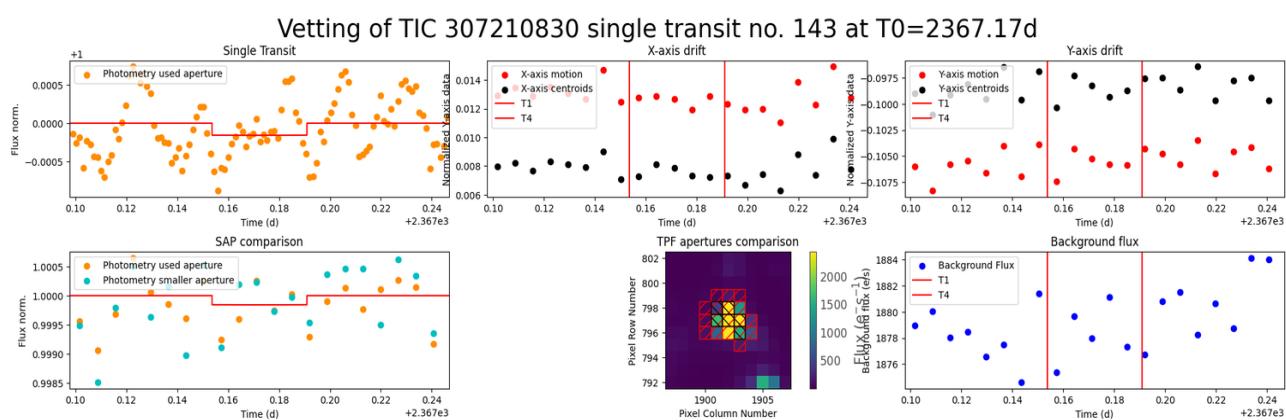


Figure 156: The single transit no. 143 vetting plots



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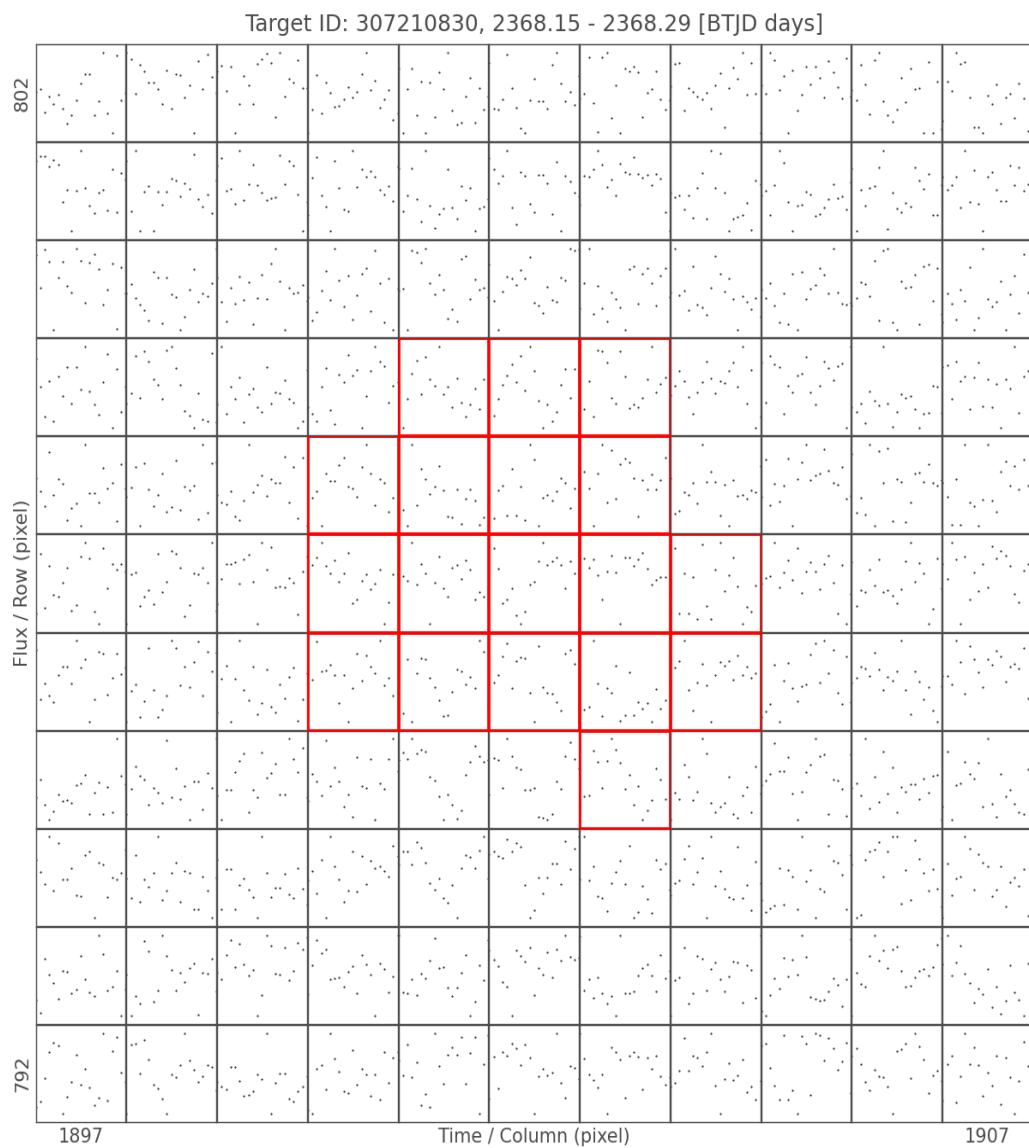
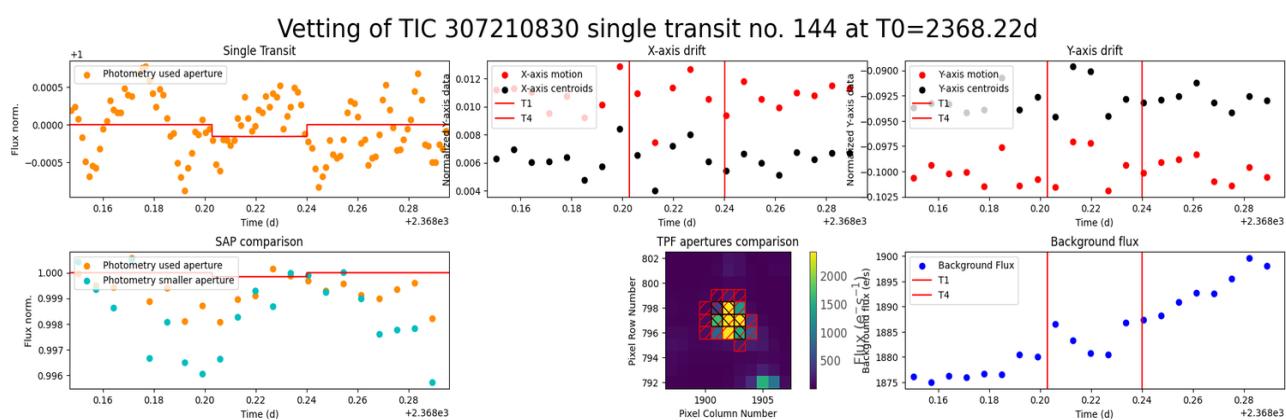
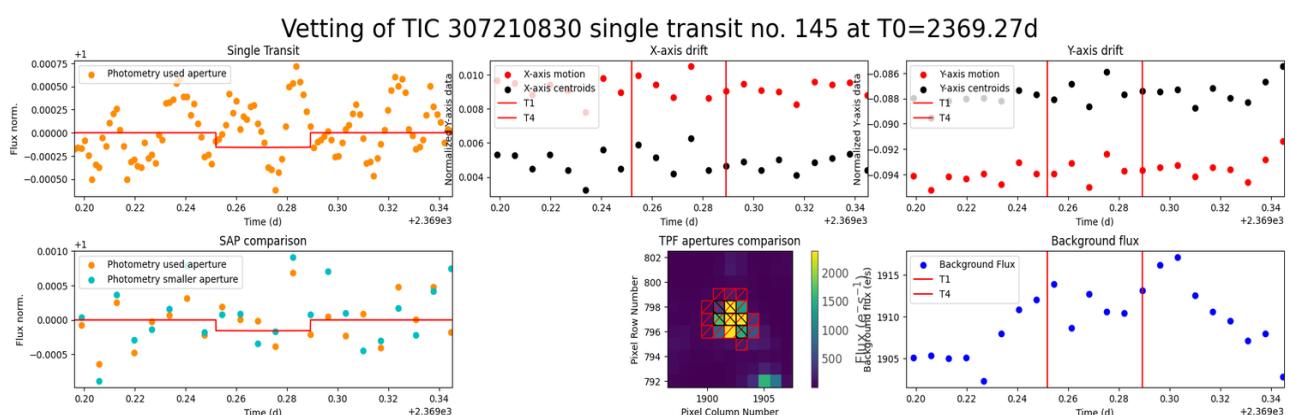


Figure 157: The single transit no. 144 vetting plots

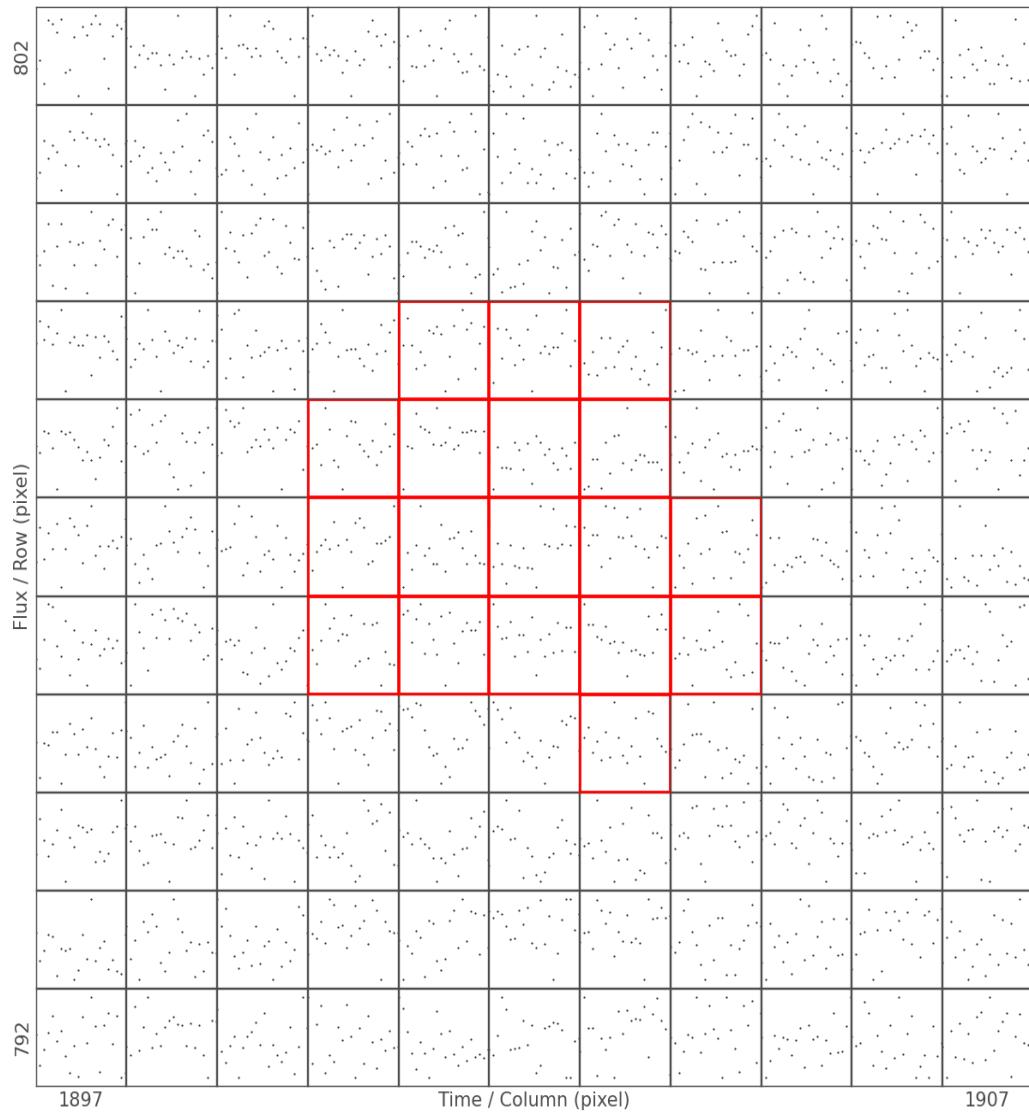


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Target ID: 307210830, 2369.20 - 2369.34 [BTJD days]

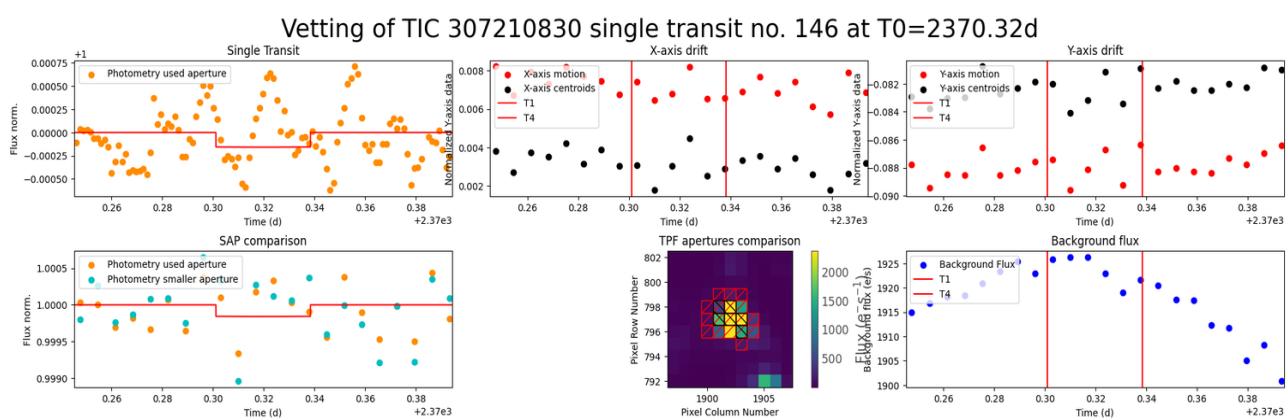


**Figure 158:** The single transit no. 145 vetting plots



## WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:10



Target ID: 307210830, 2370.25 - 2370.39 [BTJD days]

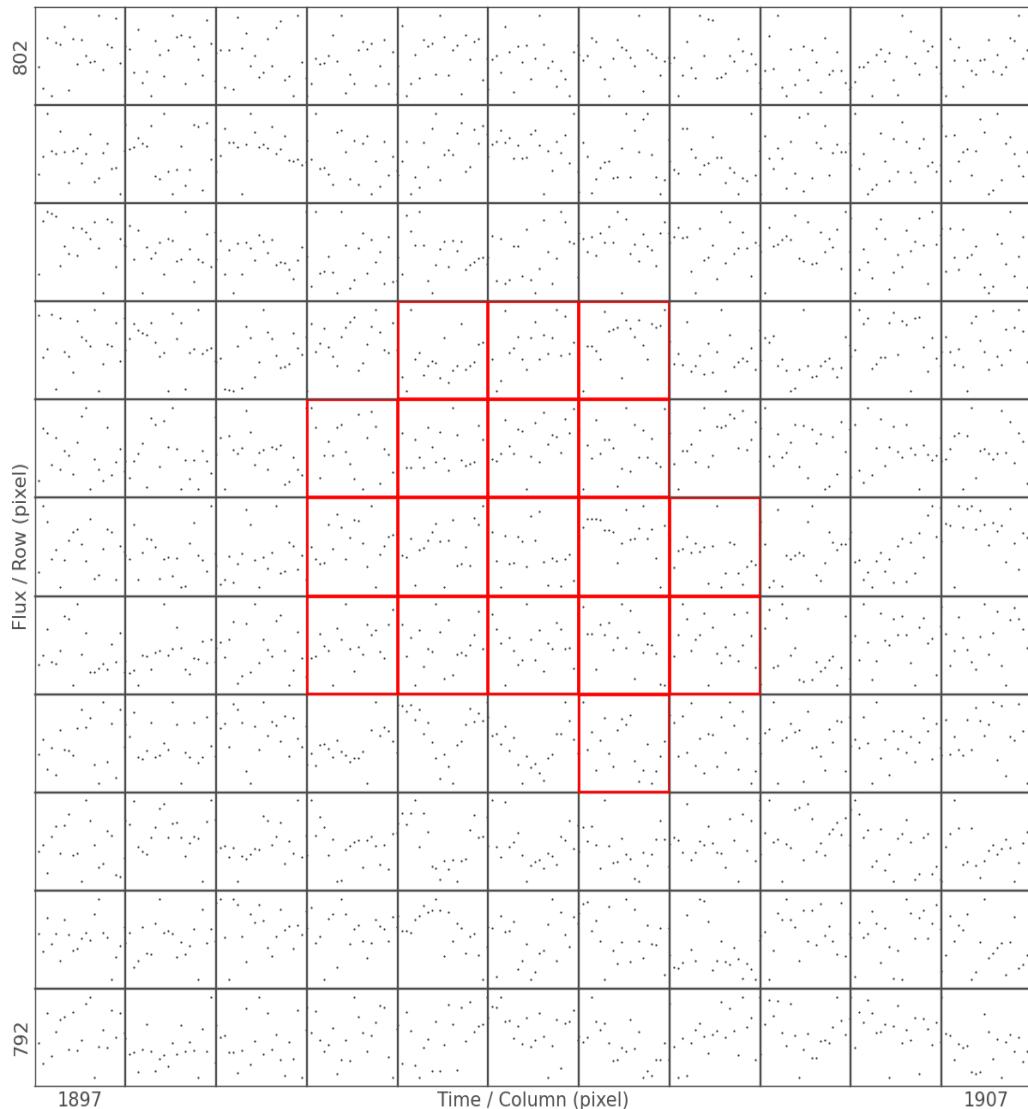


Figure 159: The single transit no. 146 vetting plots

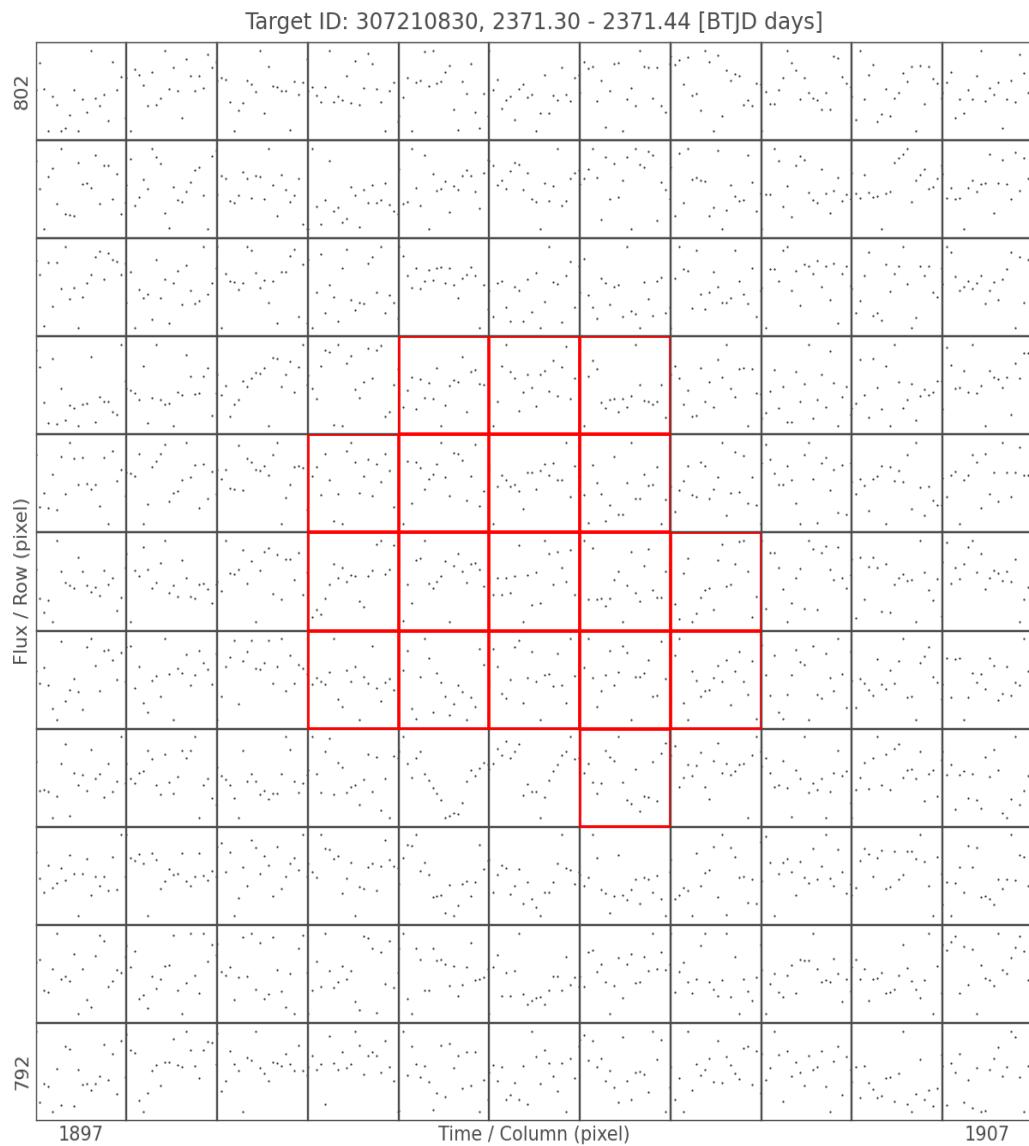
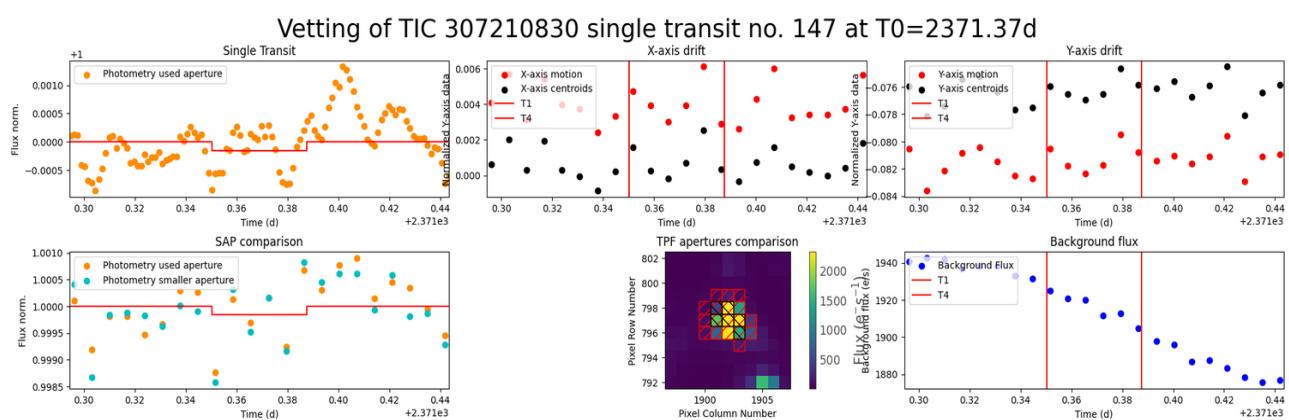


Figure 160: The single transit no. 147 vetting plots

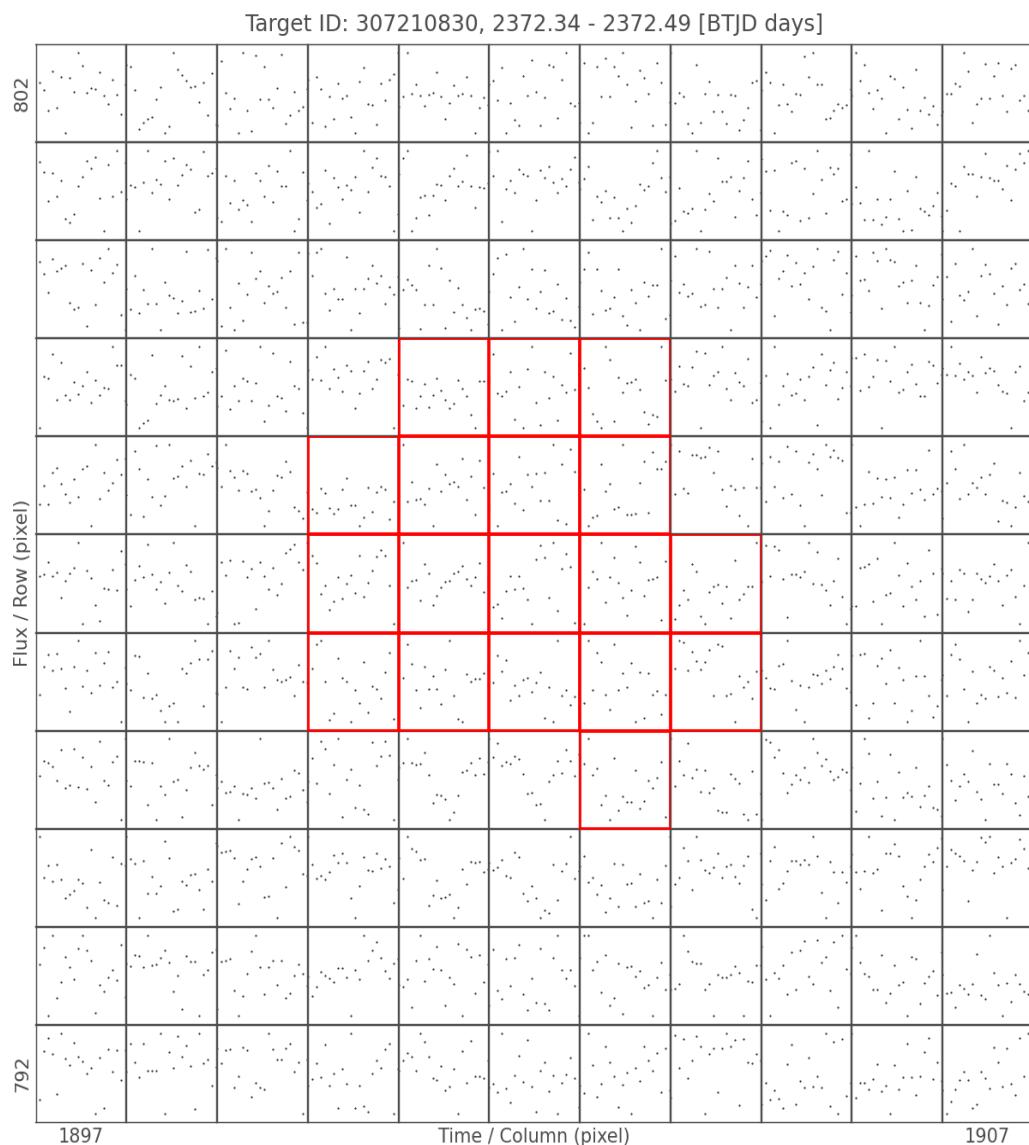
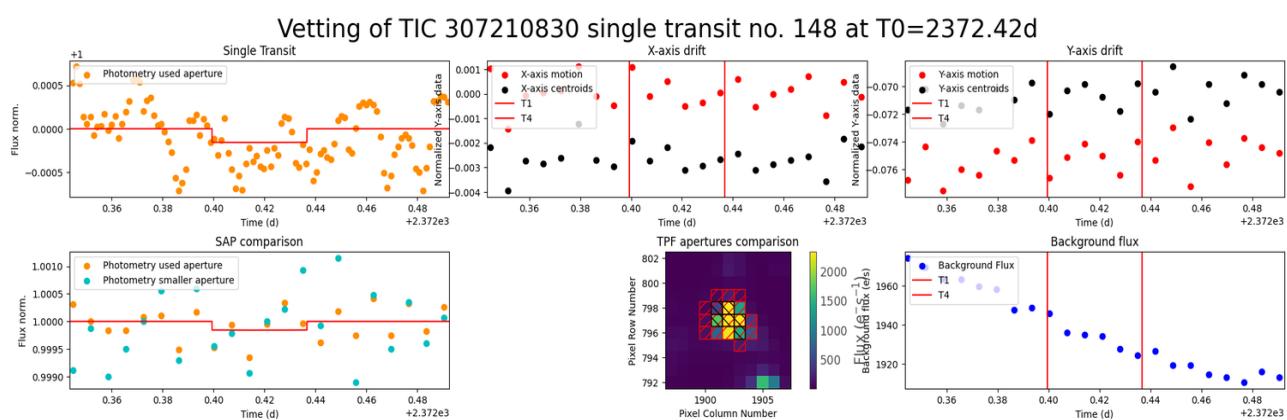


Figure 161: The single transit no. 148 vetting plots



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Wed, 09 November 2022, 11:04:10

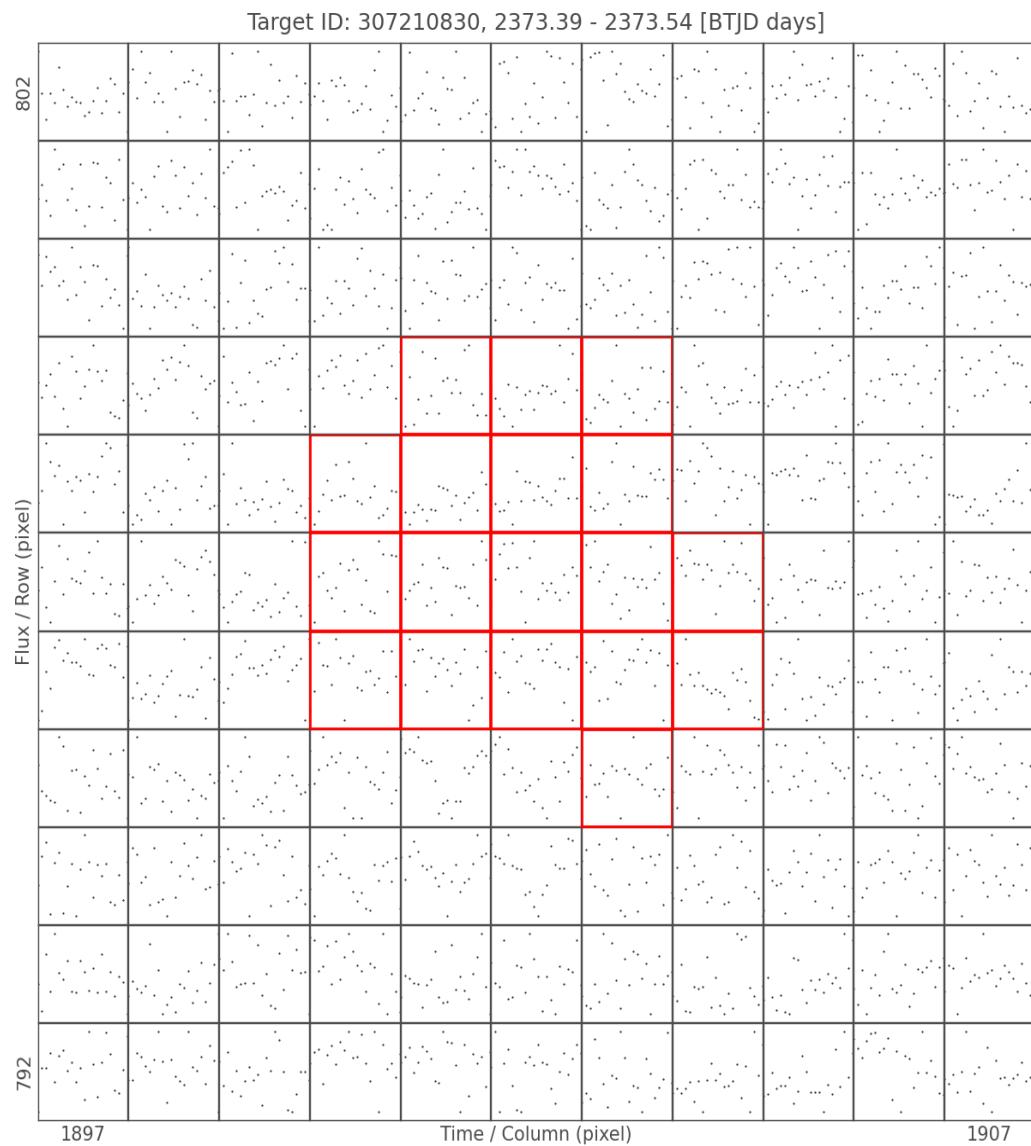
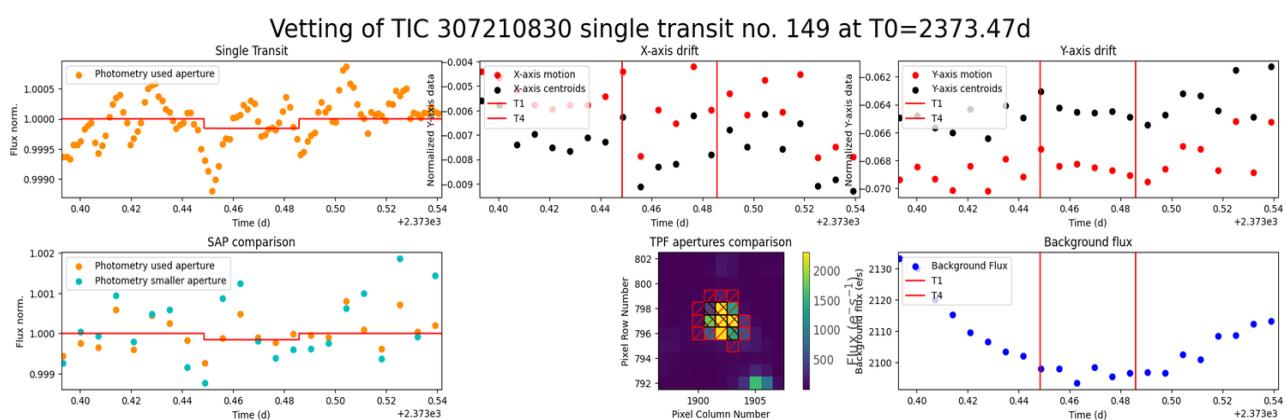
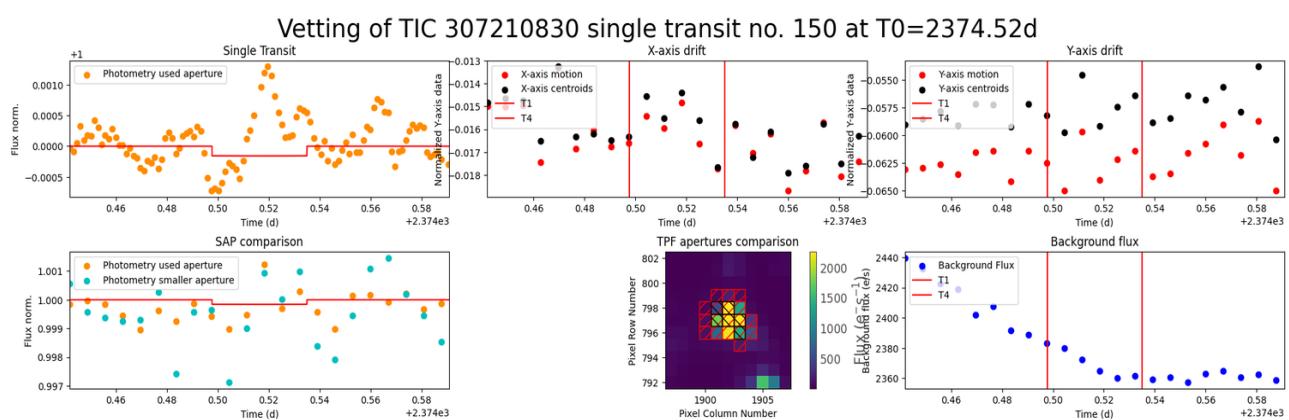


Figure 162: The single transit no. 149 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:11



Target ID: 307210830, 2374.44 - 2374.59 [BTJD days]

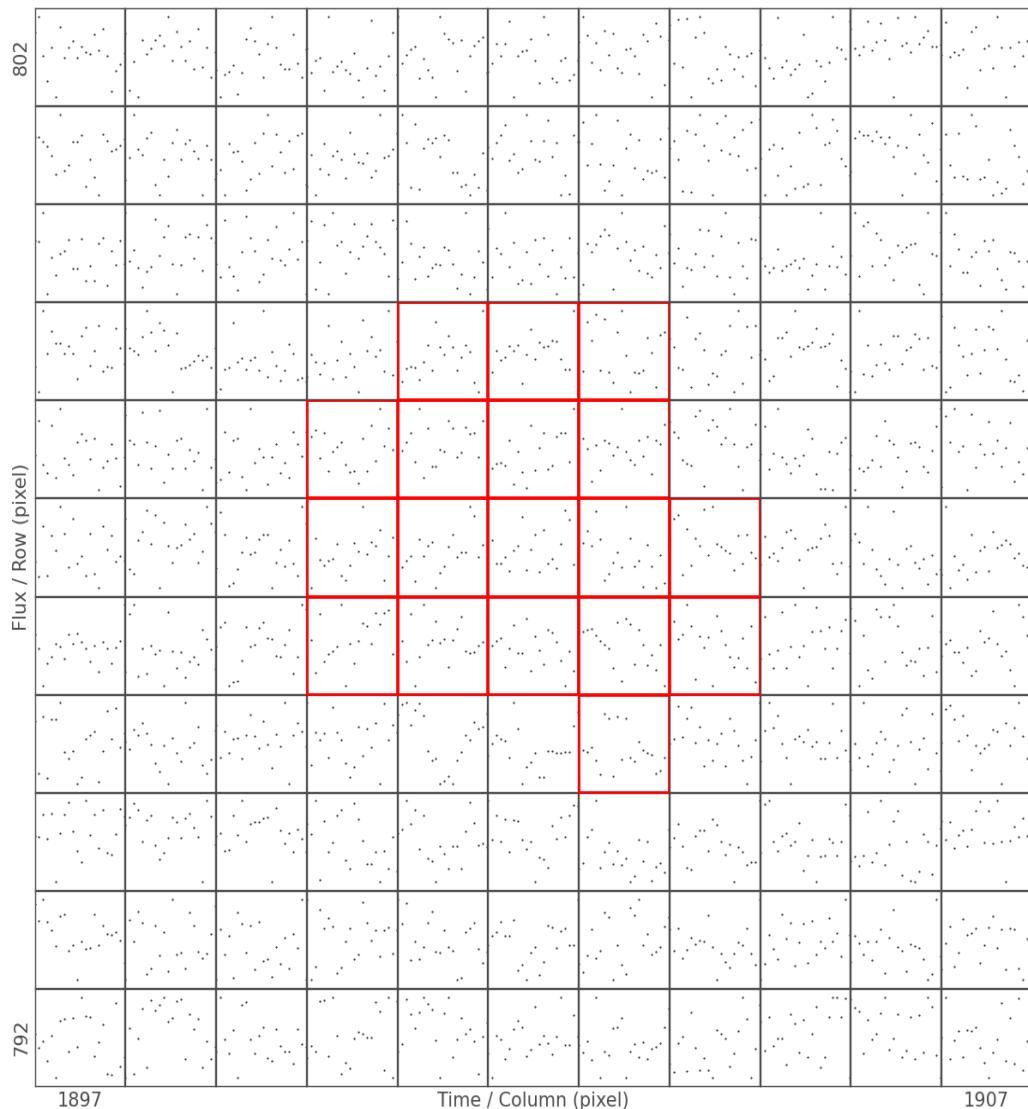
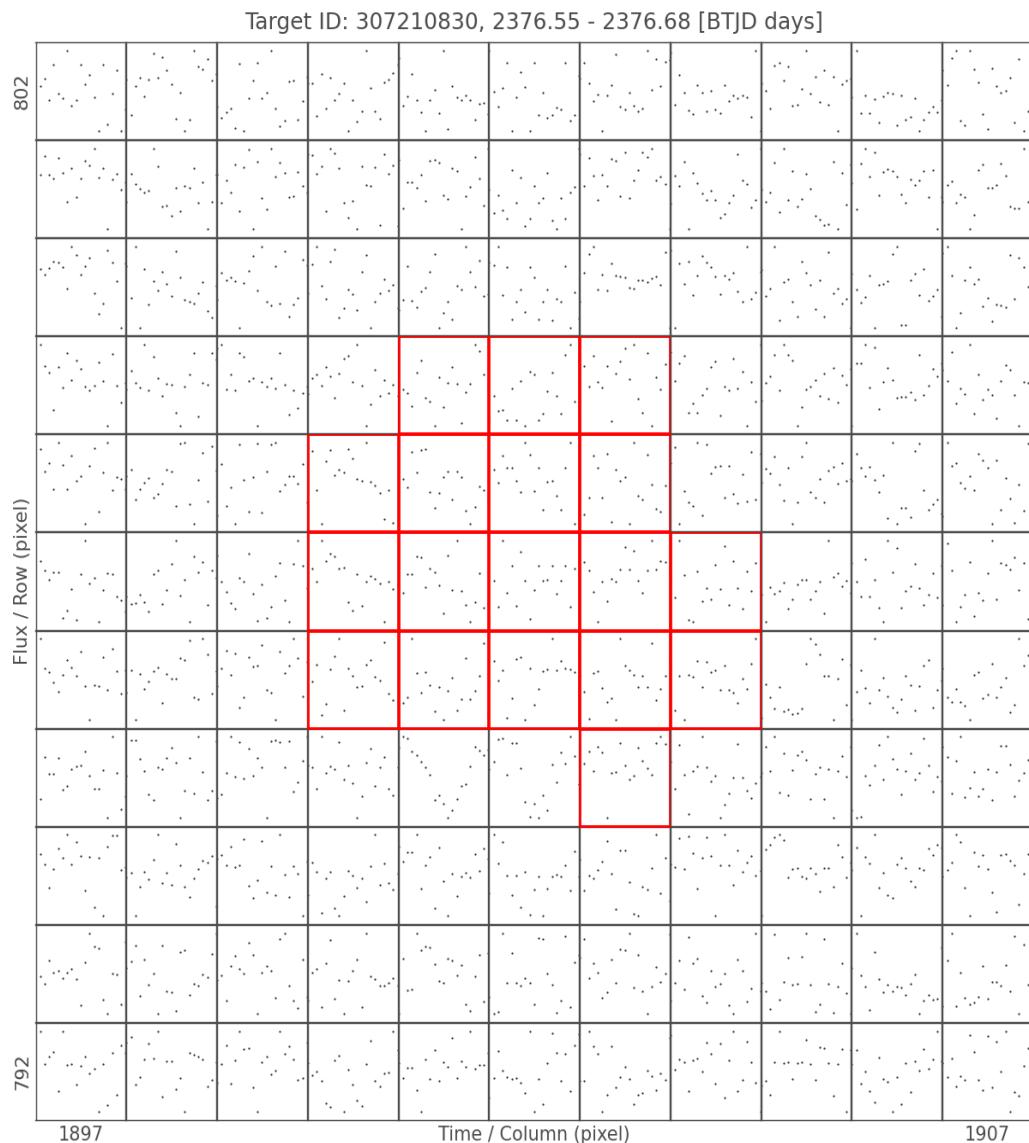
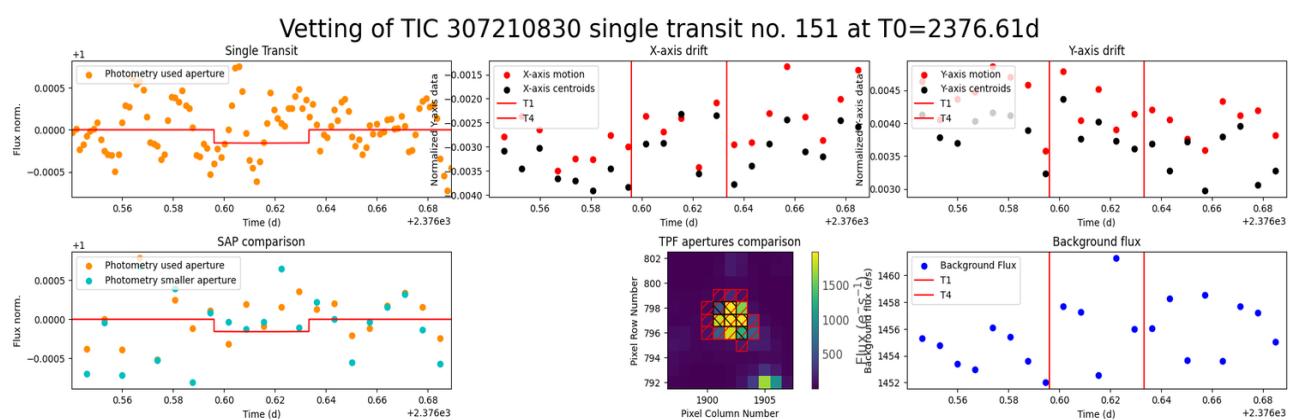


Figure 163: The single transit no. 150 vetting plots

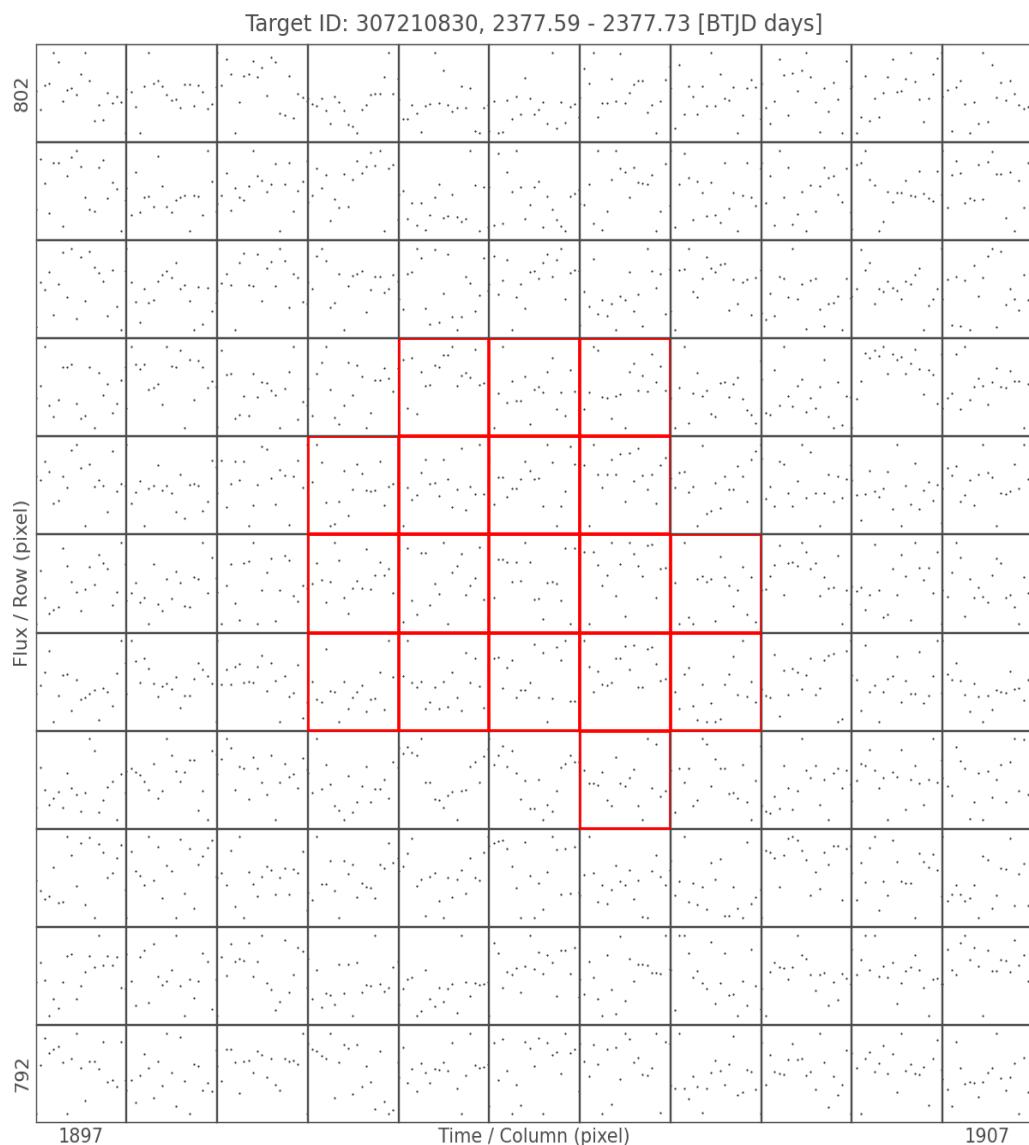
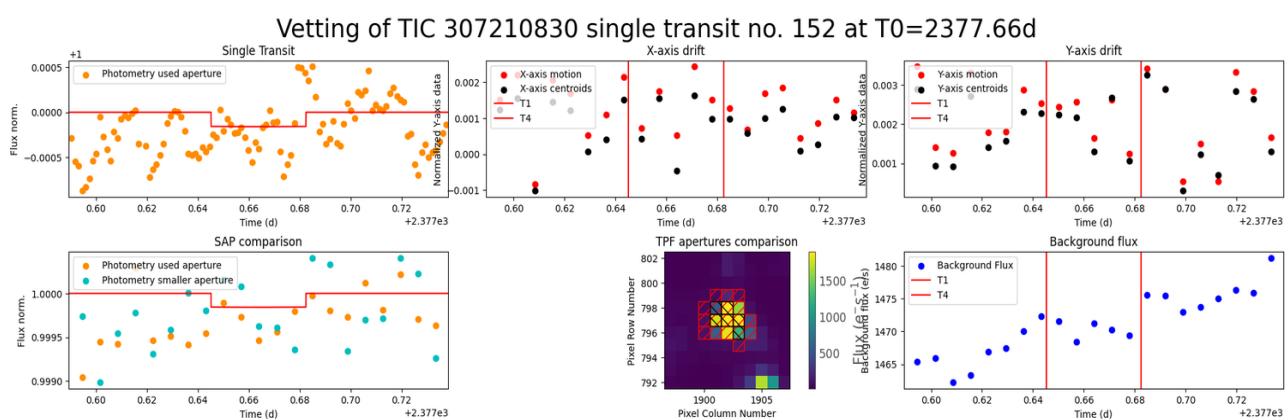


**Figure 164:** The single transit no. 151 vetting plots



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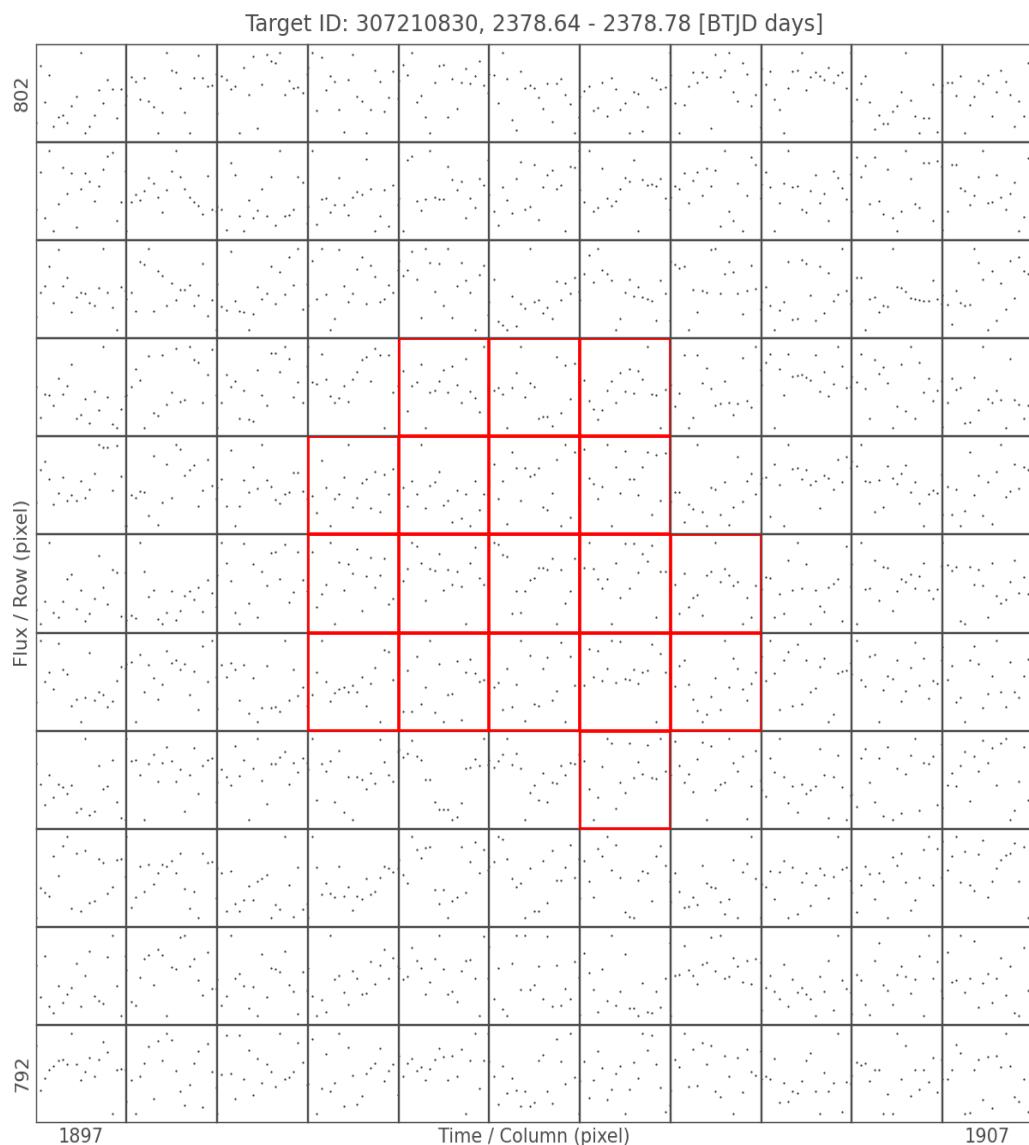
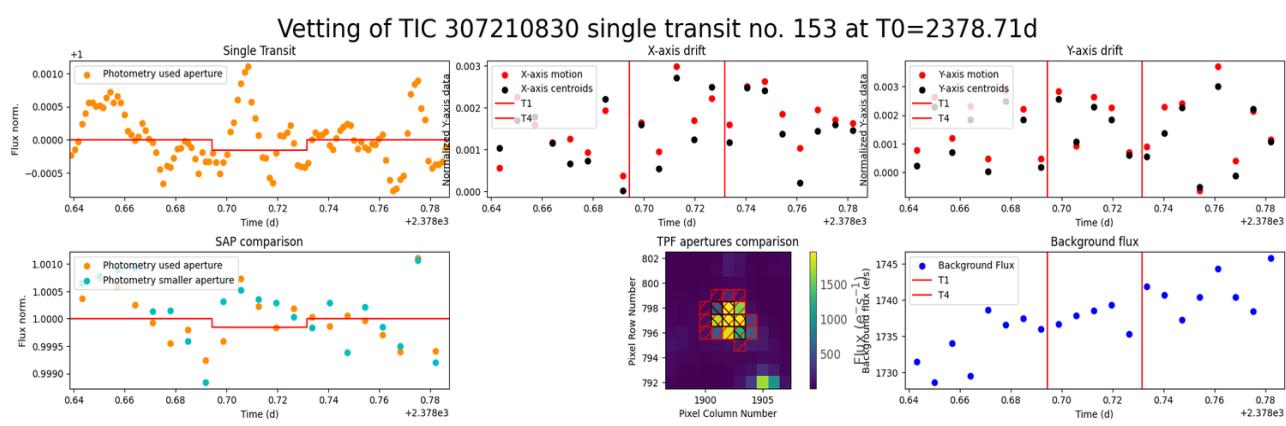


**Figure 165:** The single transit no. 152 vetting plots



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**Figure 166:** The single transit no. 153 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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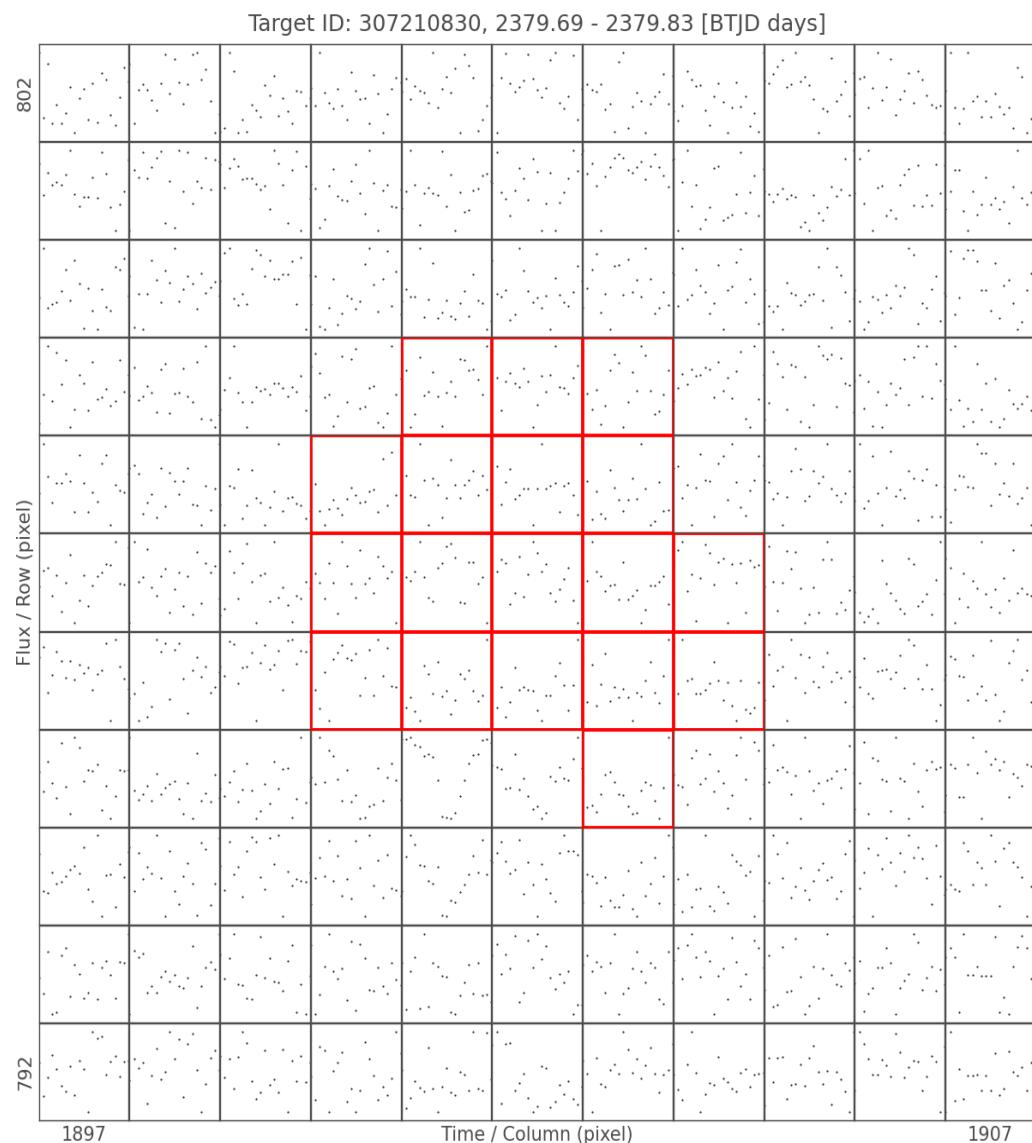
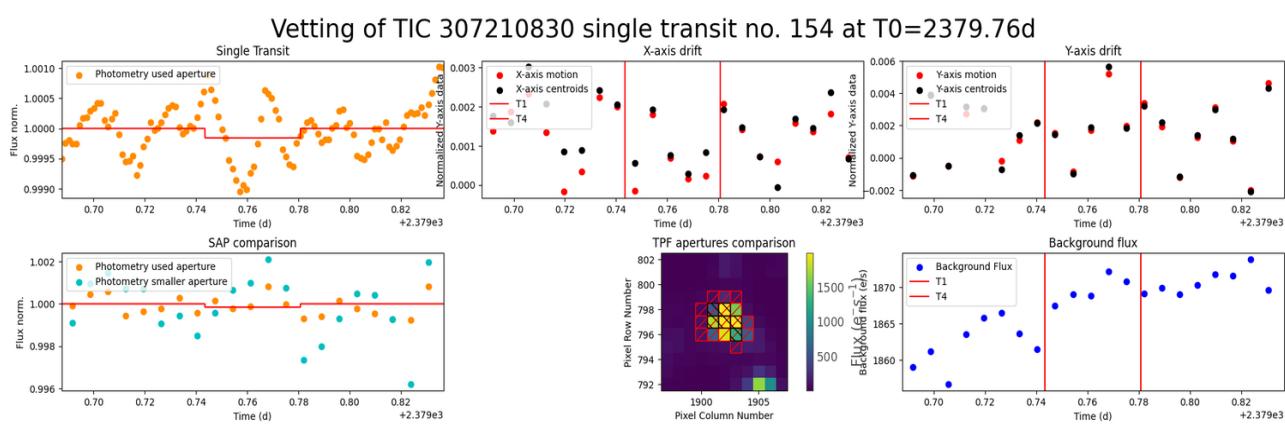
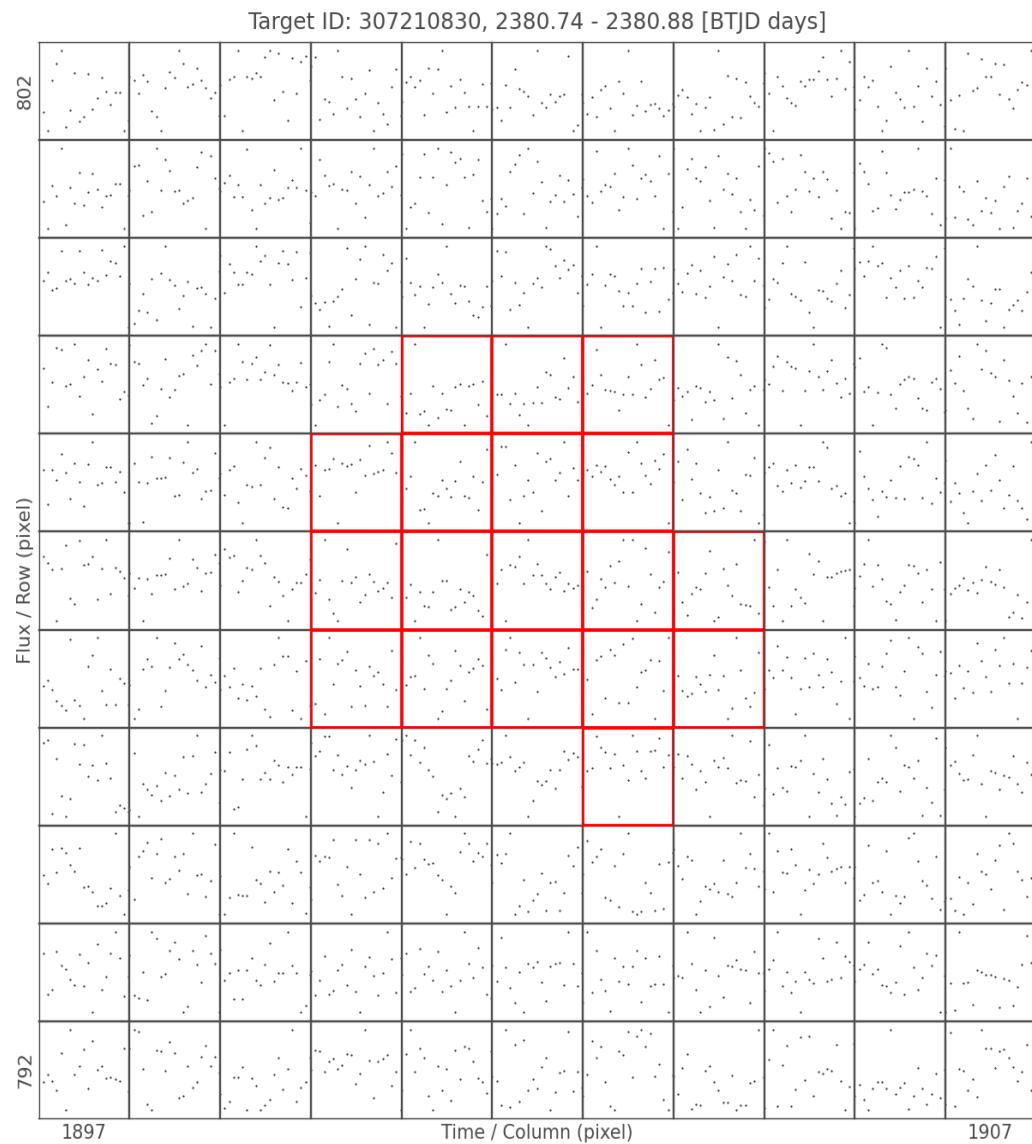
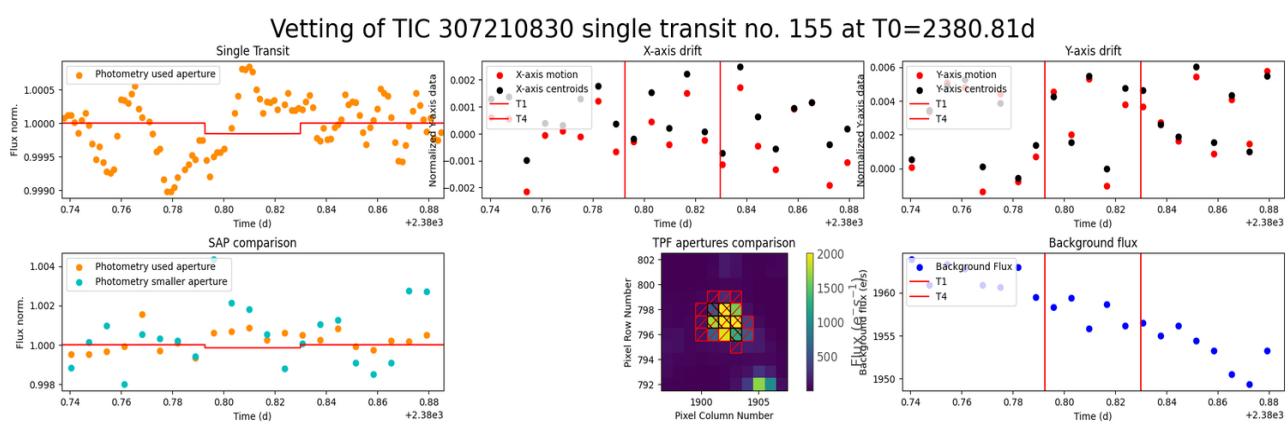


Figure 167: The single transit no. 154 vetting plots



# WATSON Transits Validation Report: TIC 307210830

Wed, 09 November 2022, 11:04:11

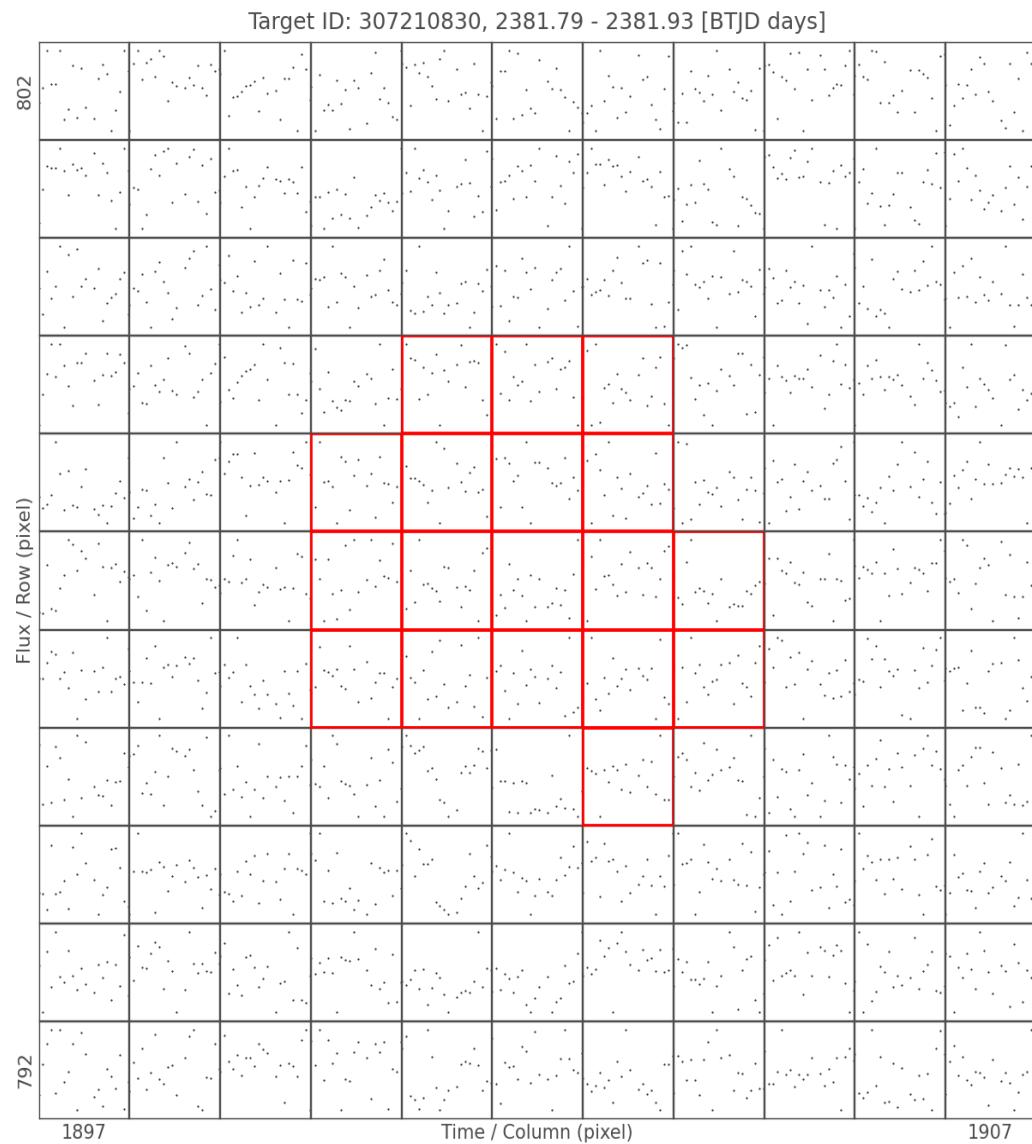
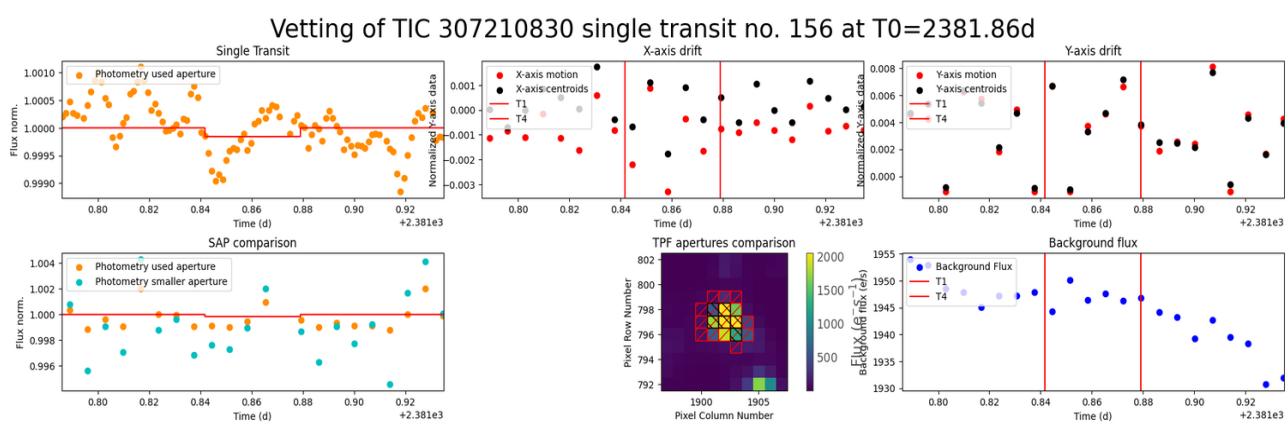


**Figure 168:** The single transit no. 155 vetting plots



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**Figure 169:** The single transit no. 156 vetting plots



# WATSON Transits Validation Report: TIC 307210830

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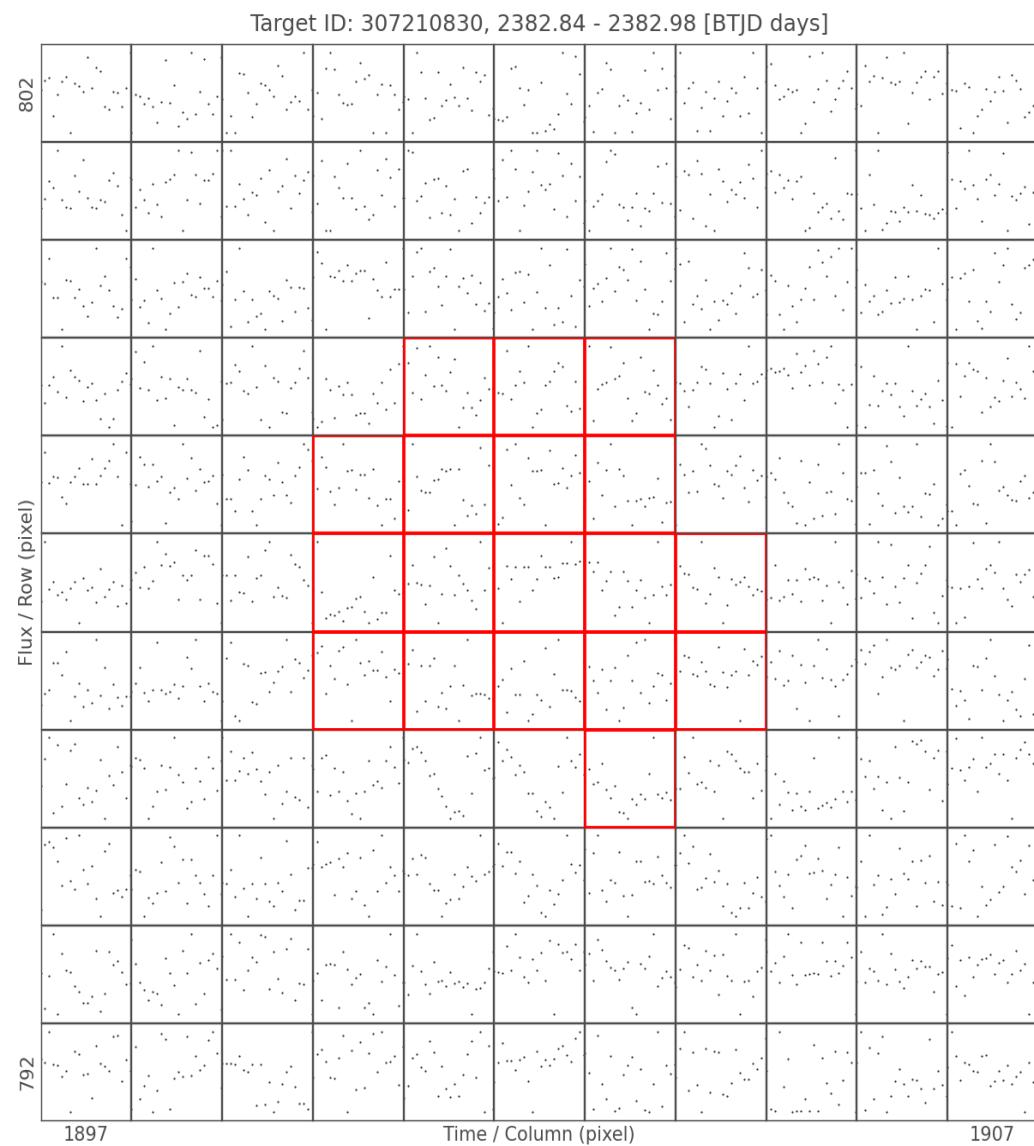
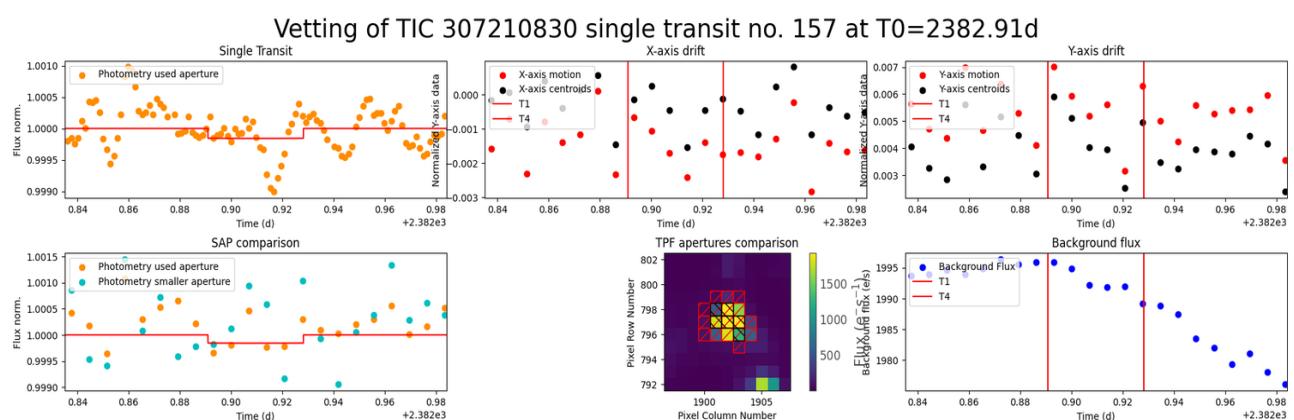


Figure 170: The single transit no. 157 vetting plots



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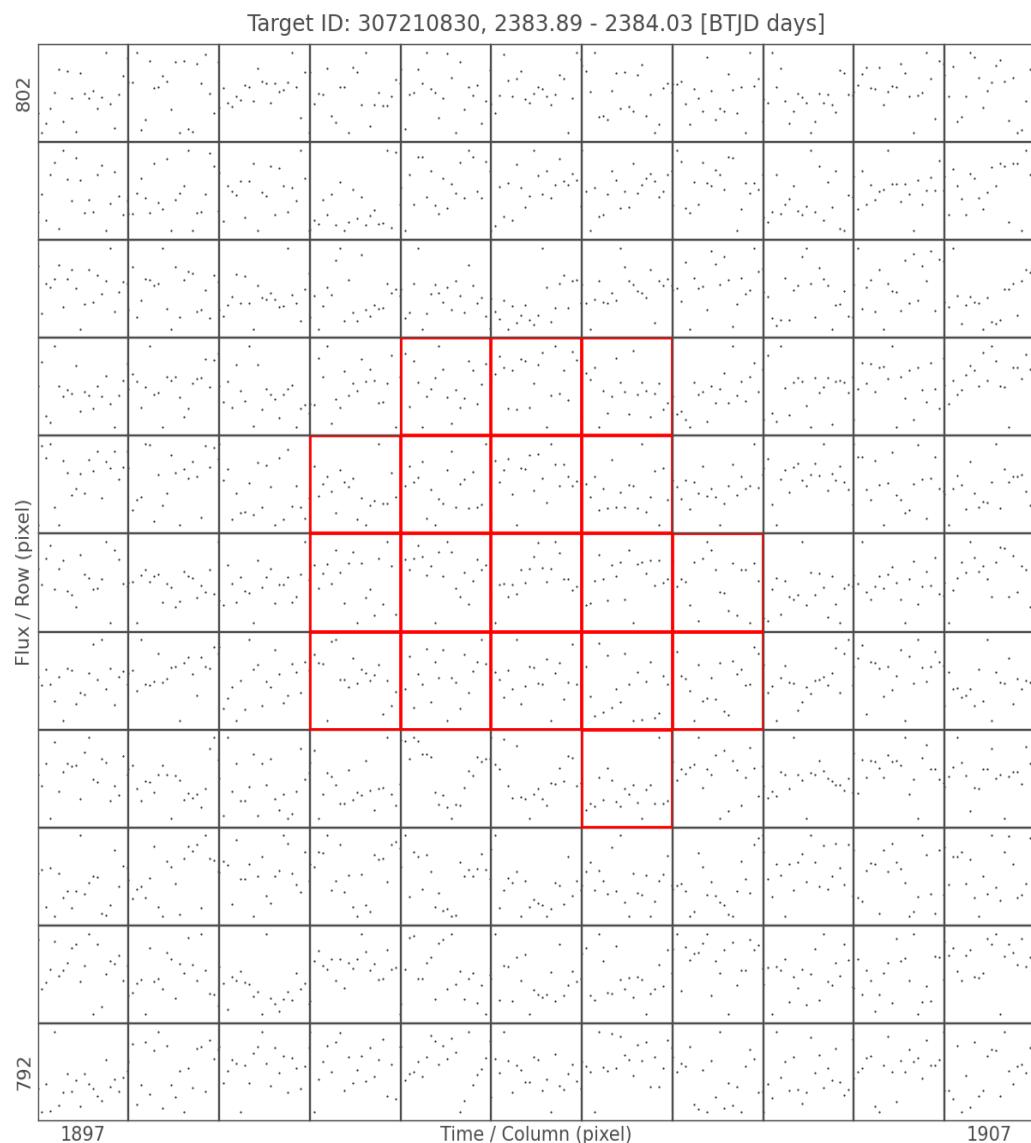
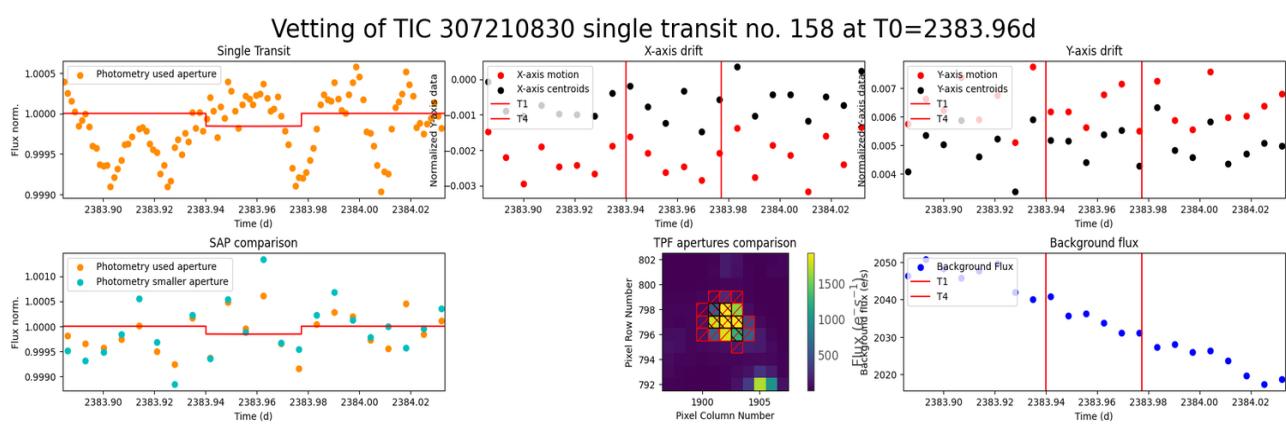


Figure 171: The single transit no. 158 vetting plots



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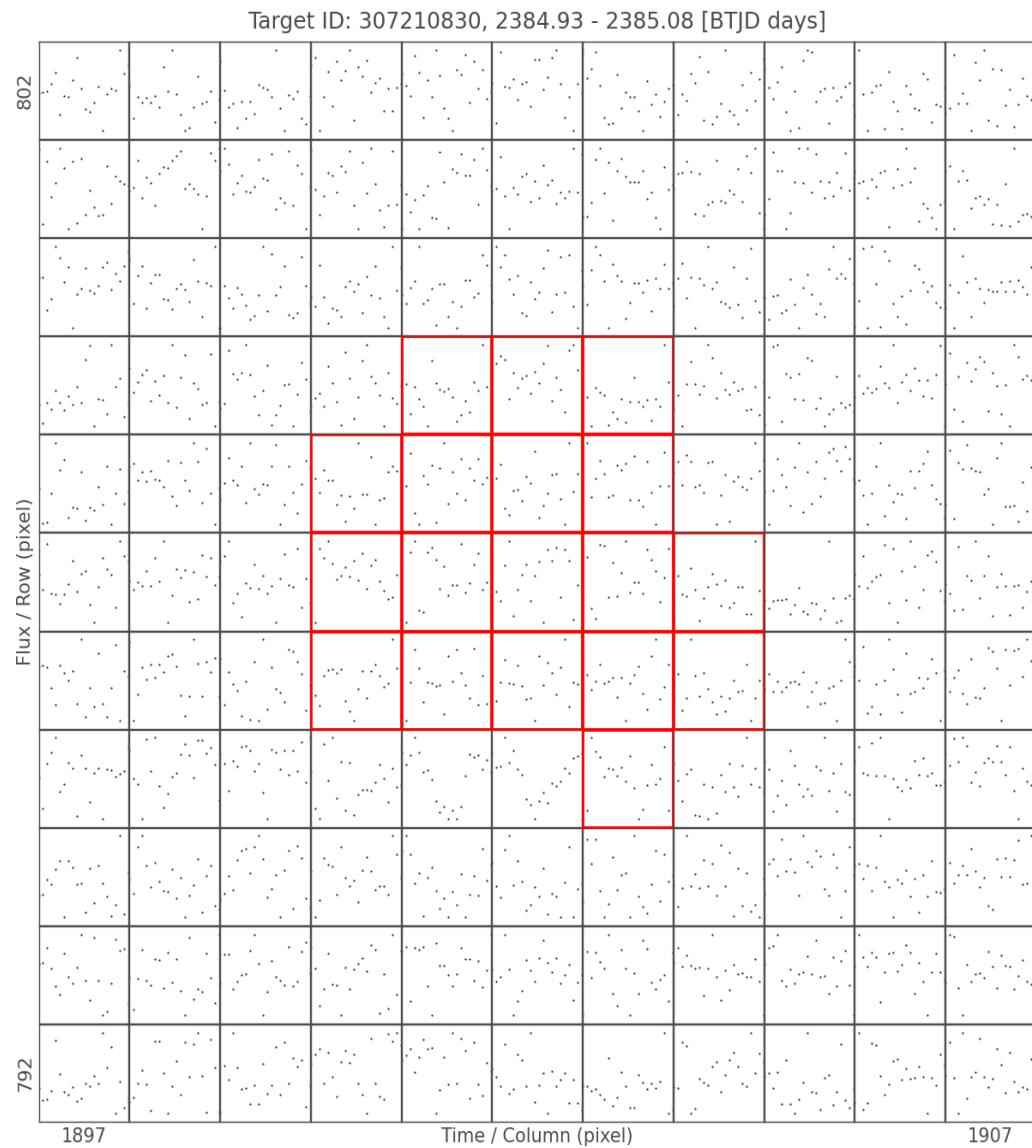
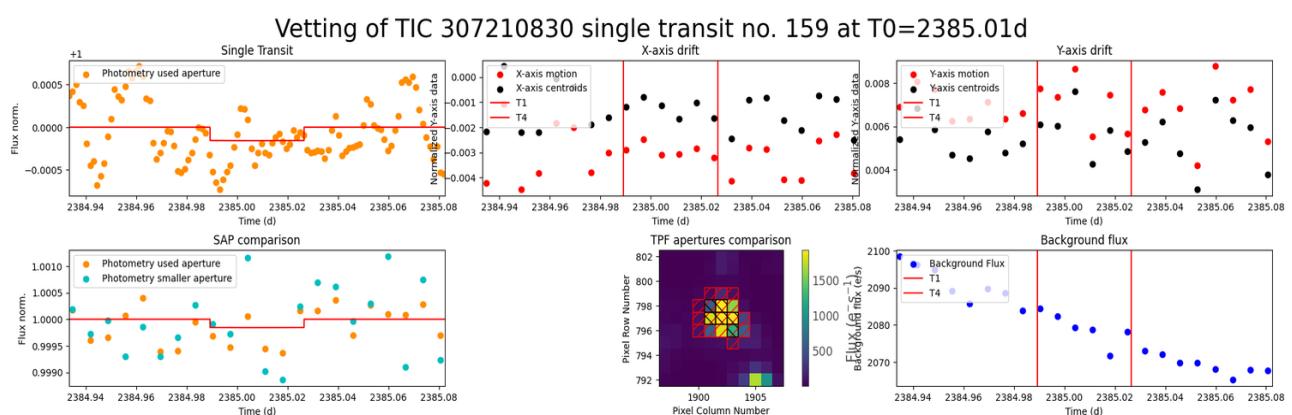
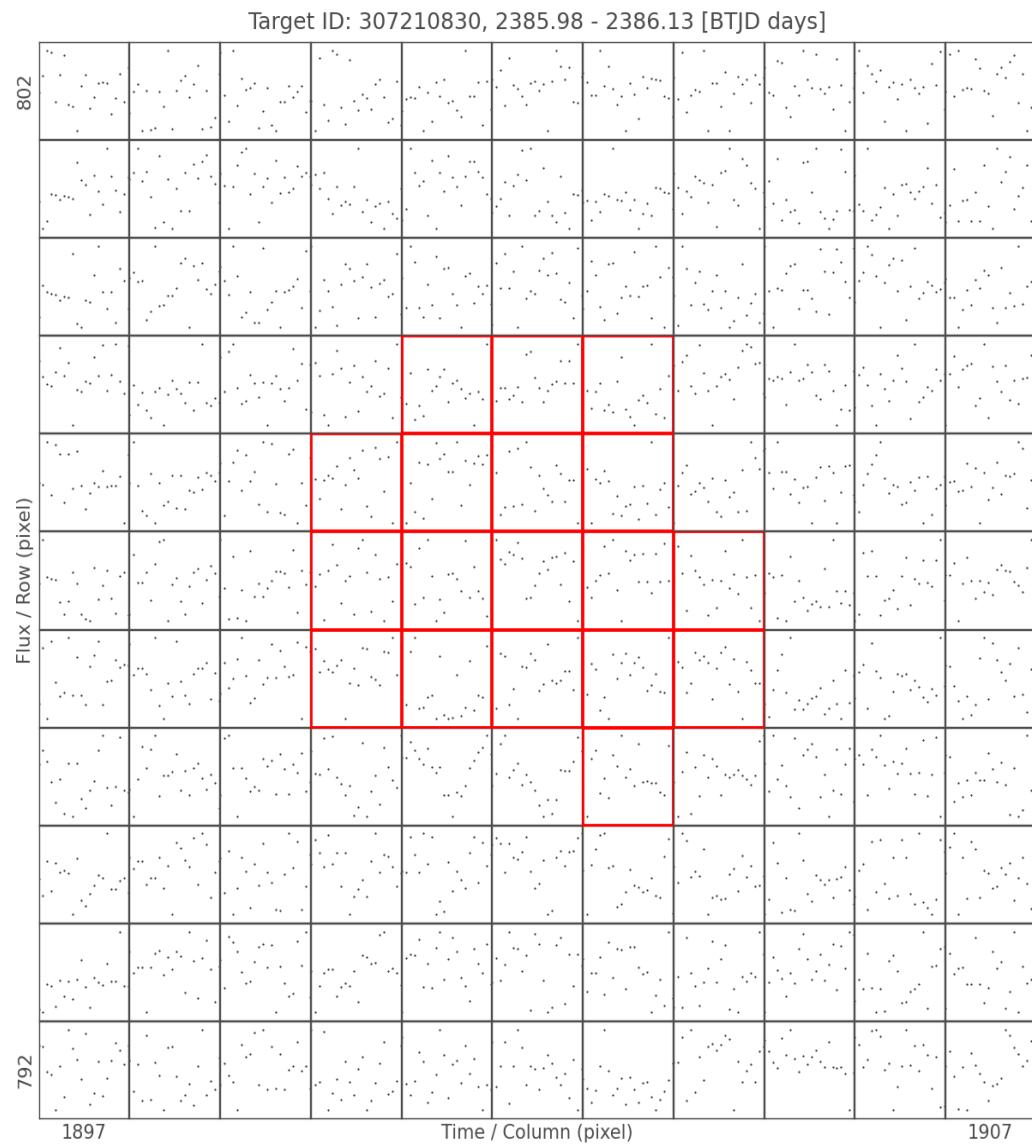
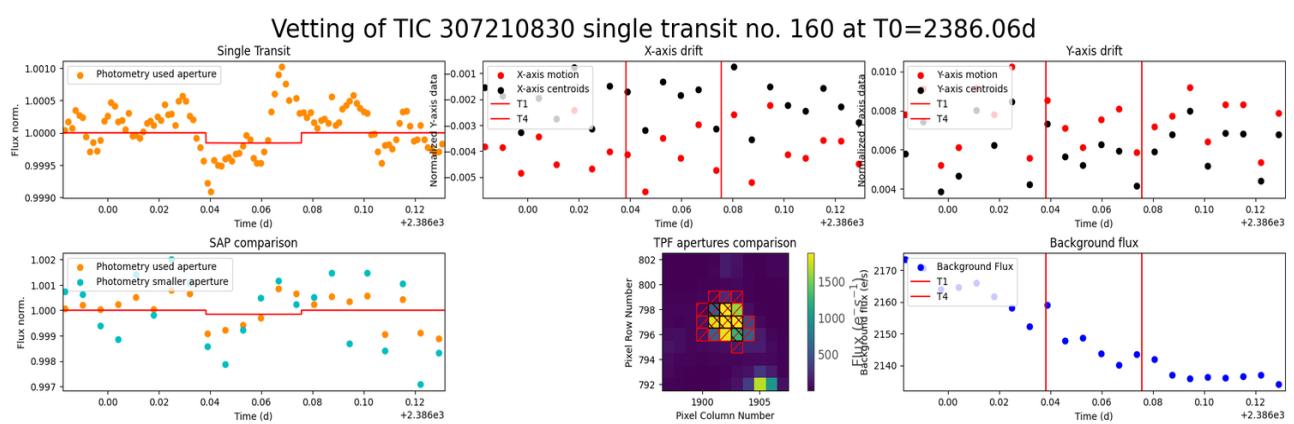
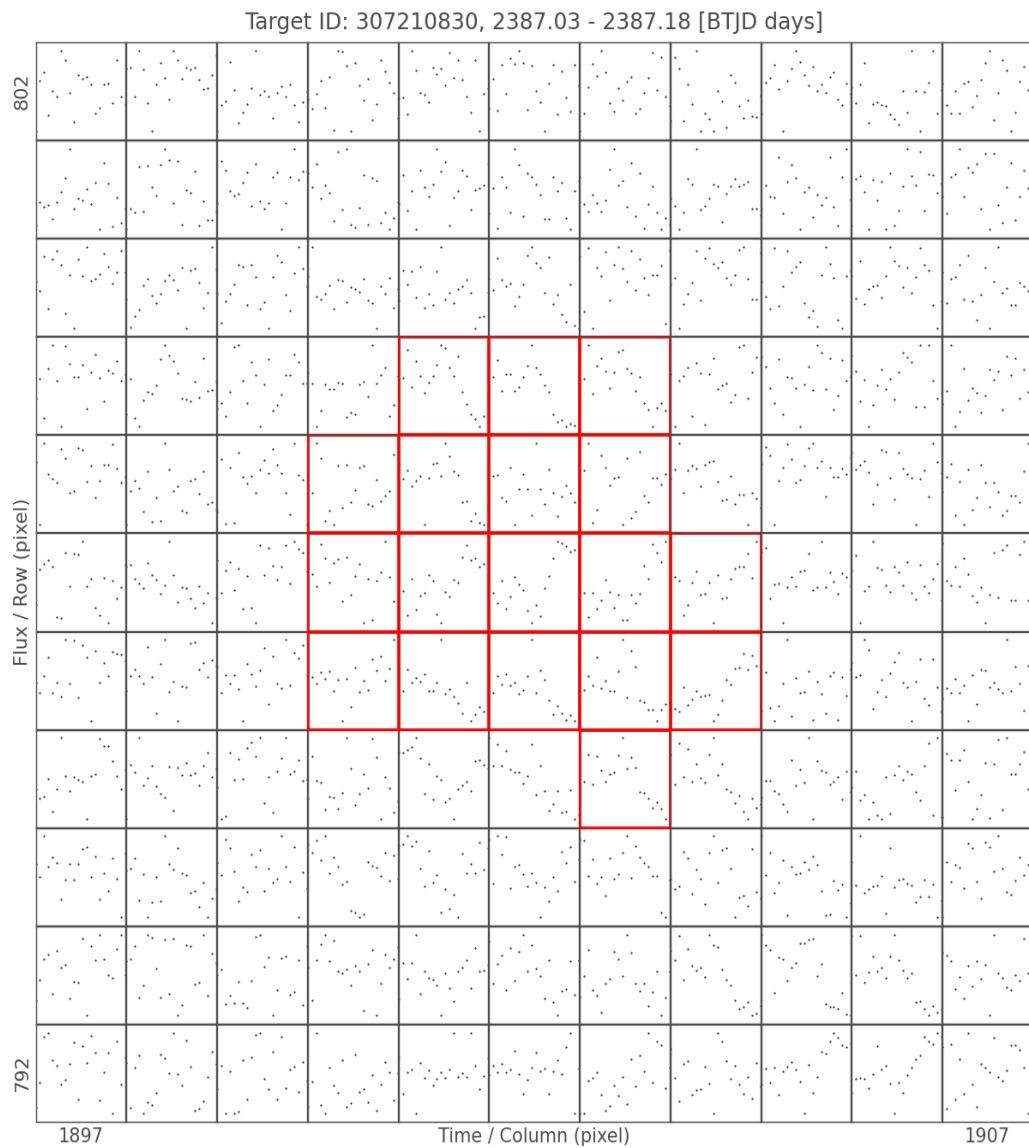
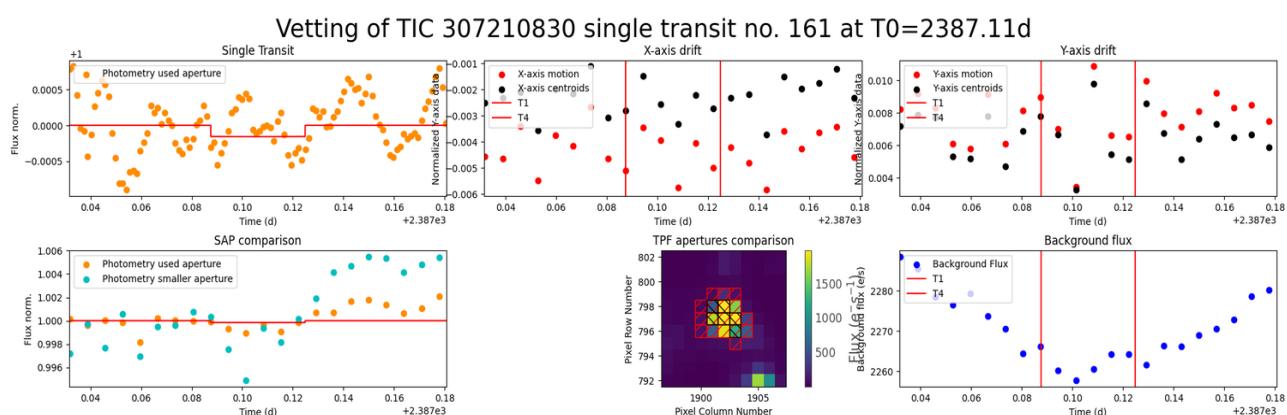


Figure 172: The single transit no. 159 vetting plots

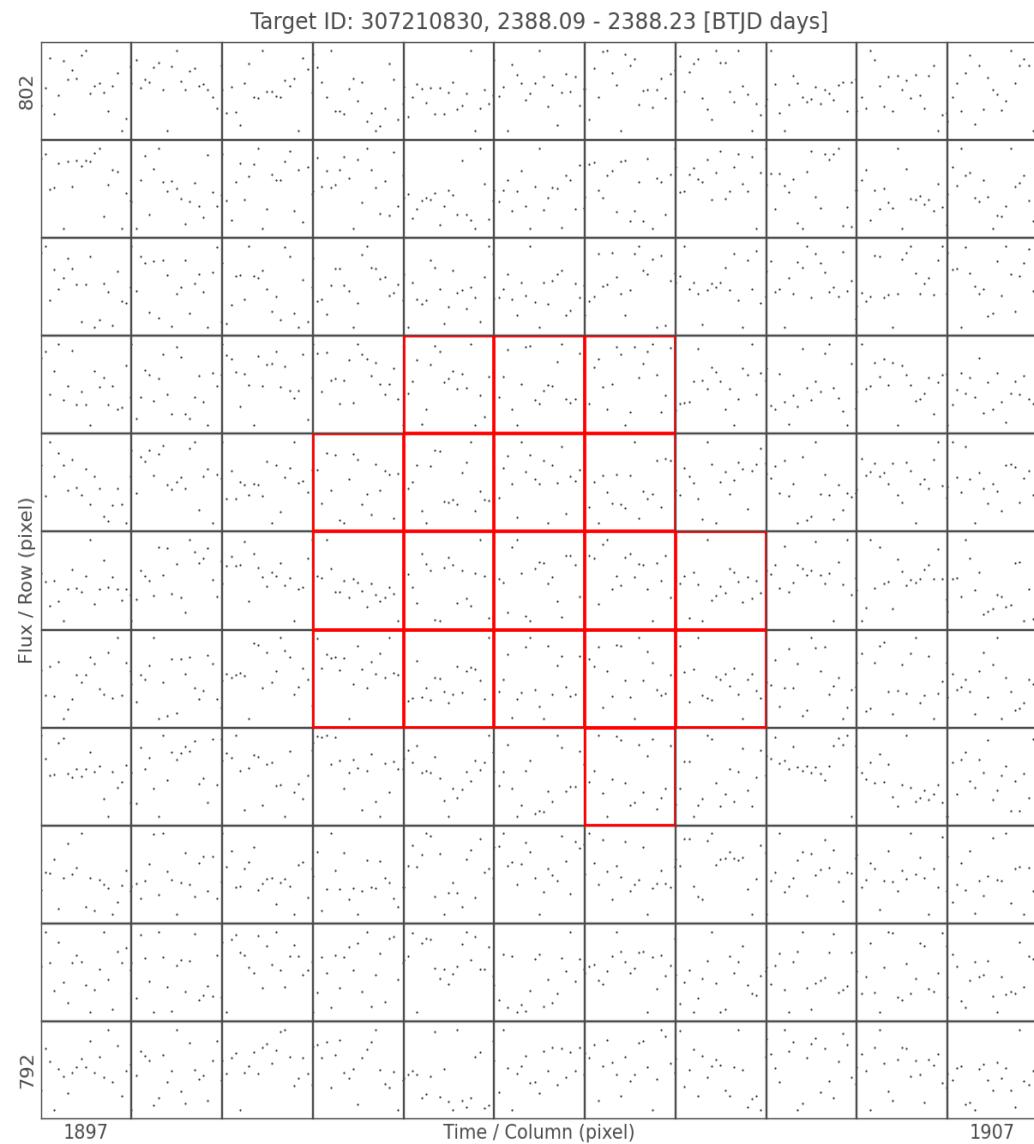
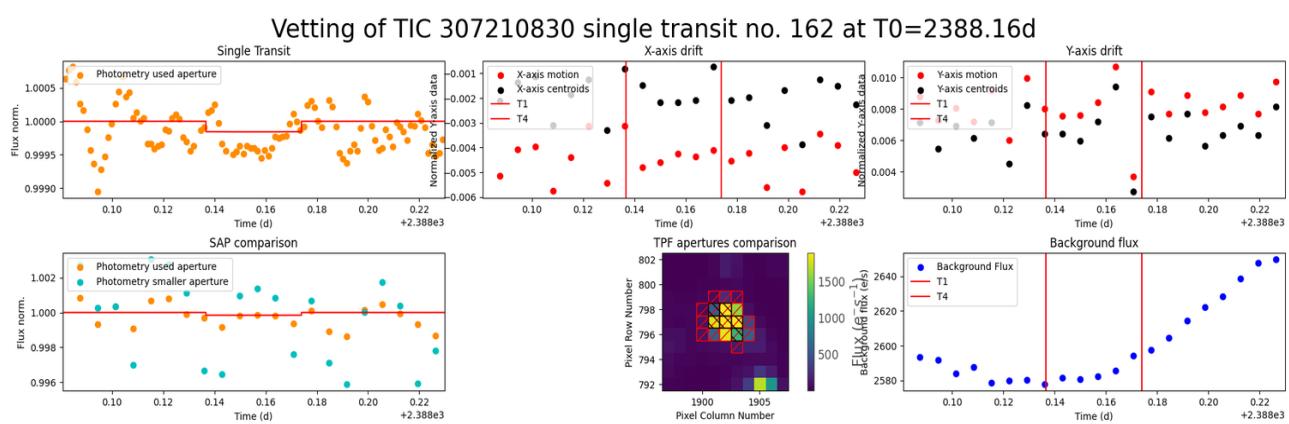


**Figure 173:** The single transit no. 160 vetting plots



**Figure 174:** The single transit no. 161 vetting plots

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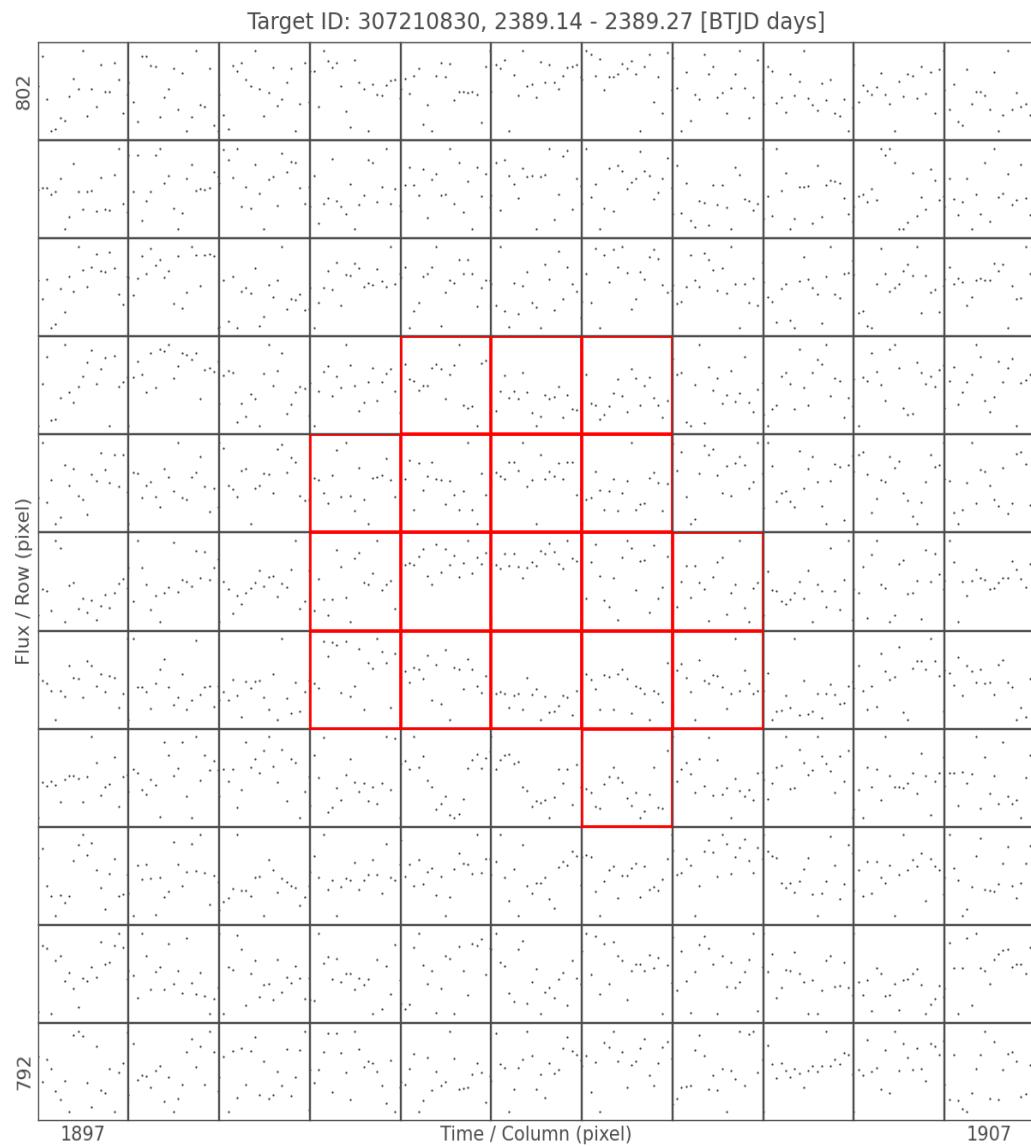
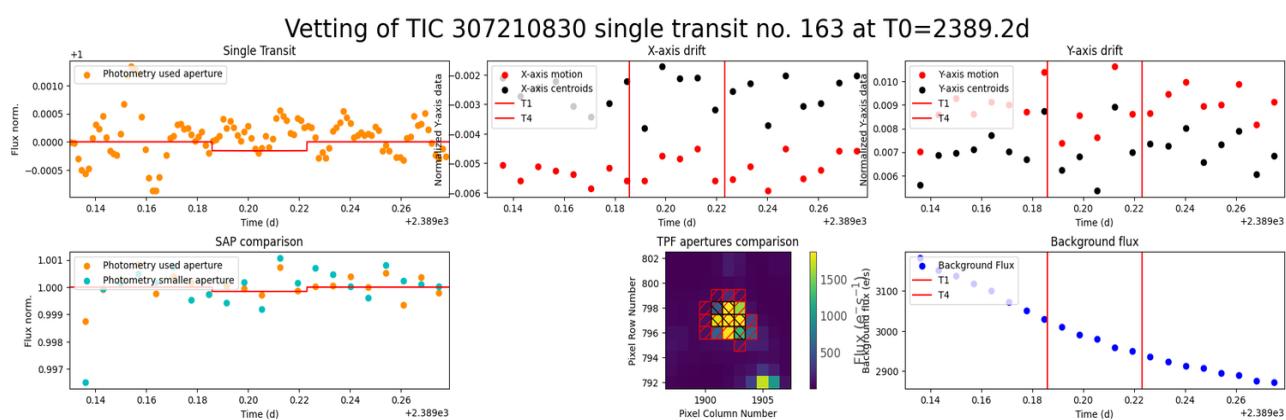


**Figure 175:** The single transit no. 162 vetting plots



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**Figure 176:** The single transit no. 163 vetting plots