

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4525 - L2 Version 5  
Chandra X-Ray Center

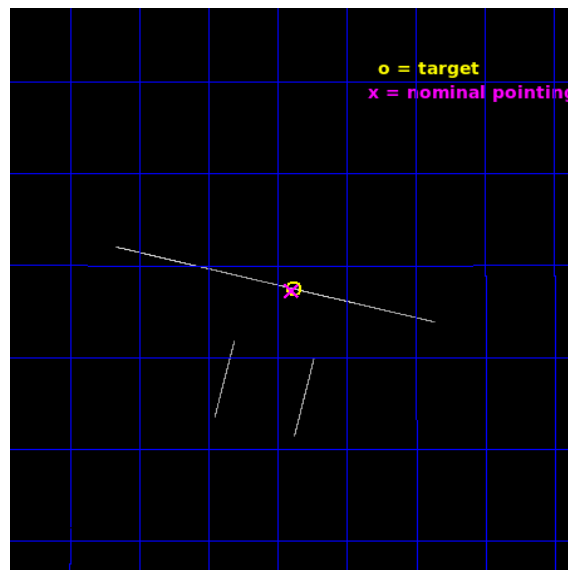
L2 Processing Date : Sep 23 2020

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# 1 Front

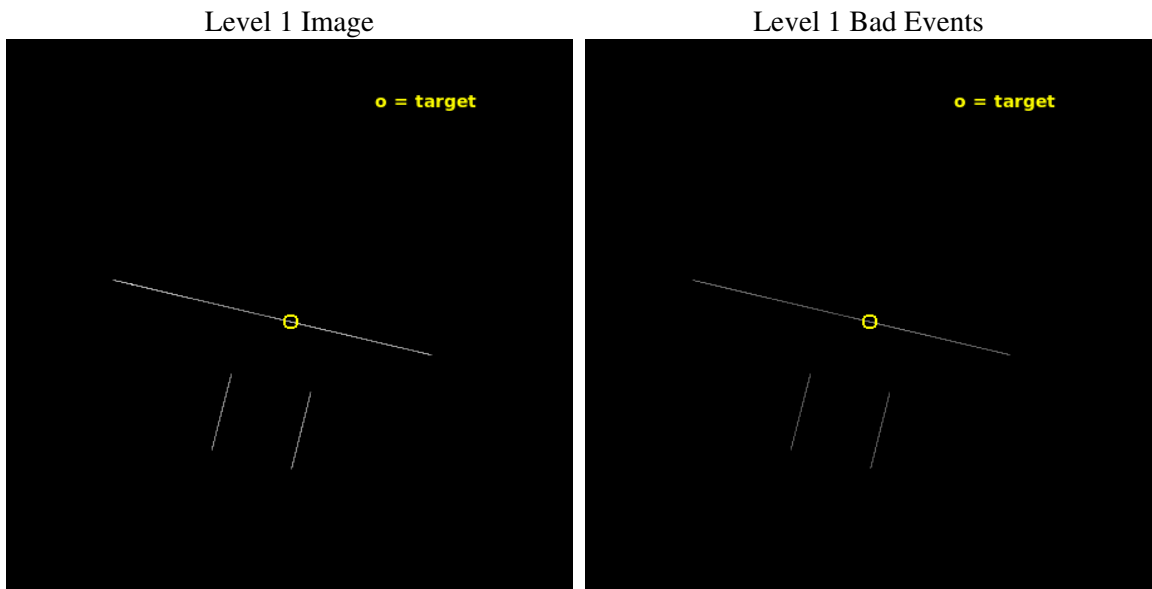
seq_num	300119	Sequence number
obs_id	4525	Observation id
title	Timing the Orbit of RX J0806.3+1527	Proposal title
observer	Tod Strohmayer	Principal investigator
object	RX J0806.3+1527	Source name
ra_targ	121.596667	Observer's specified target RA [deg]
dec_targ	15.458389	Observer's specified target Dec [deg]
ra_nom	121.59931838051	Nominal RA [deg]
dec_nom	15.454414312395	Nominal Dec [deg]
roll_nom	13.761344963503	Nominal Roll [deg]
revision	5	Processing version of data
ontime	9751.5	Sum of GTIs [s]
livetime	9713.408203125	Livetime [s]
ontime2	9751.5	Sum of GTIs [s]
ontime3	9751.5	Sum of GTIs [s]
ontime5	9751.5	Sum of GTIs [s]
ontime6	9751.5	Sum of GTIs [s]
ontime7	9751.5	Sum of GTIs [s]
ontime8	9751.5	Sum of GTIs [s]
l2events	120785	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9751.5	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	9751.5	Sum of GTIs [s]
date	2020-09-23T13:13:44	Date and time of file creation	ontime3	9751.5	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	9751.5	Sum of GTIs [s]
			ontime6	9751.5	Sum of GTIs [s]
			ontime7	9751.5	Sum of GTIs [s]
			ontime8	9751.5	Sum of GTIs [s]
			l1events	207566	Number of level 1 events

### 2.1.3 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	14251	15802	84584	15730	47849	29350
rejected events	3305	3616	11327	3838	9622	5723
rejected %	23%	22%	13%	24%	20%	19%

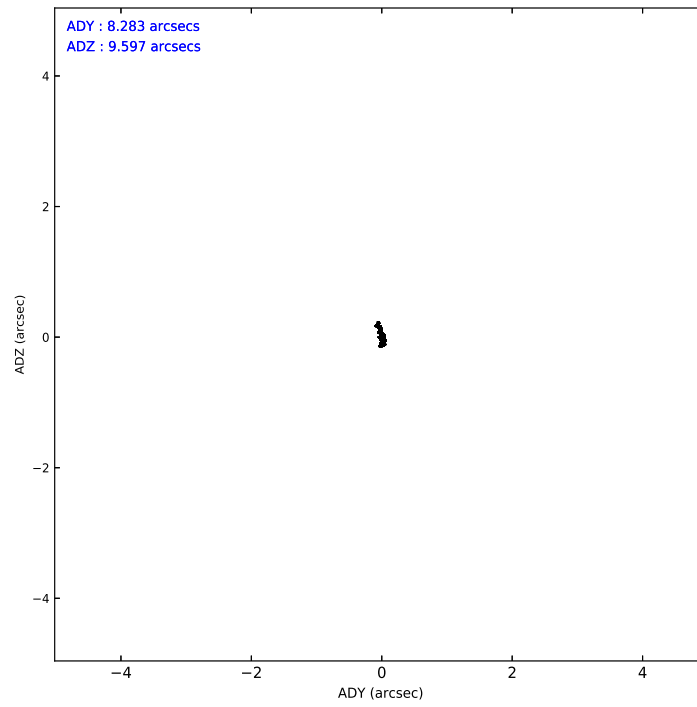
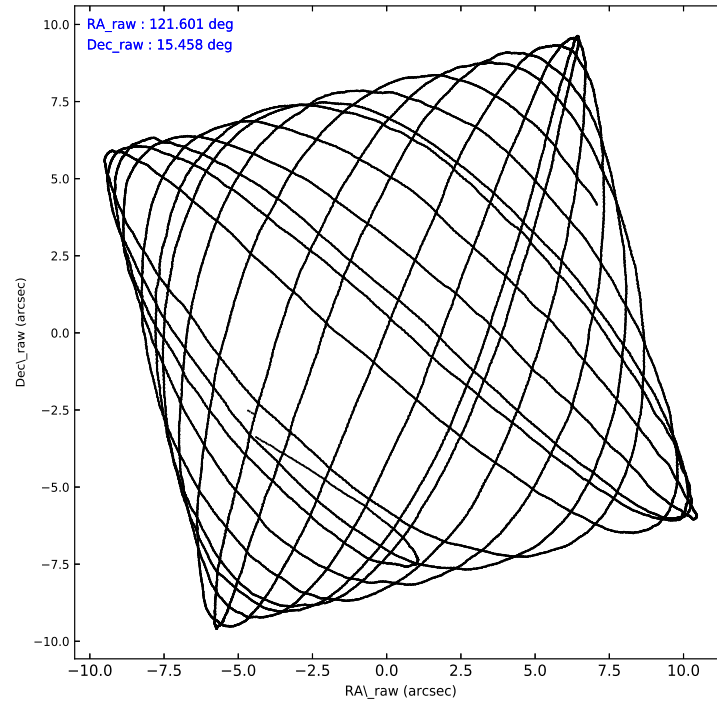
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1473	1511	27263	1379	3823	4367
	10%	9%	32%	8%	7%	14%
grade 1 events	31	43	60	40	70	79
	0%	0%	0%	0%	0%	0%
grade 2 events	4924	5655	20101	5432	10514	8426
	34%	35%	23%	34%	21%	28%
grade 3 events	1342	1686	1026	1460	1728	2819
	9%	10%	1%	9%	3%	9%
grade 4 events	1429	1441	962	1391	1706	2764
	10%	9%	1%	8%	3%	9%
grade 5 events	2352	2510	5477	2825	6568	3760
	16%	15%	6%	17%	13%	12%
grade 6 events	2700	2956	29695	3203	23440	7135
	18%	18%	35%	20%	48%	24%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

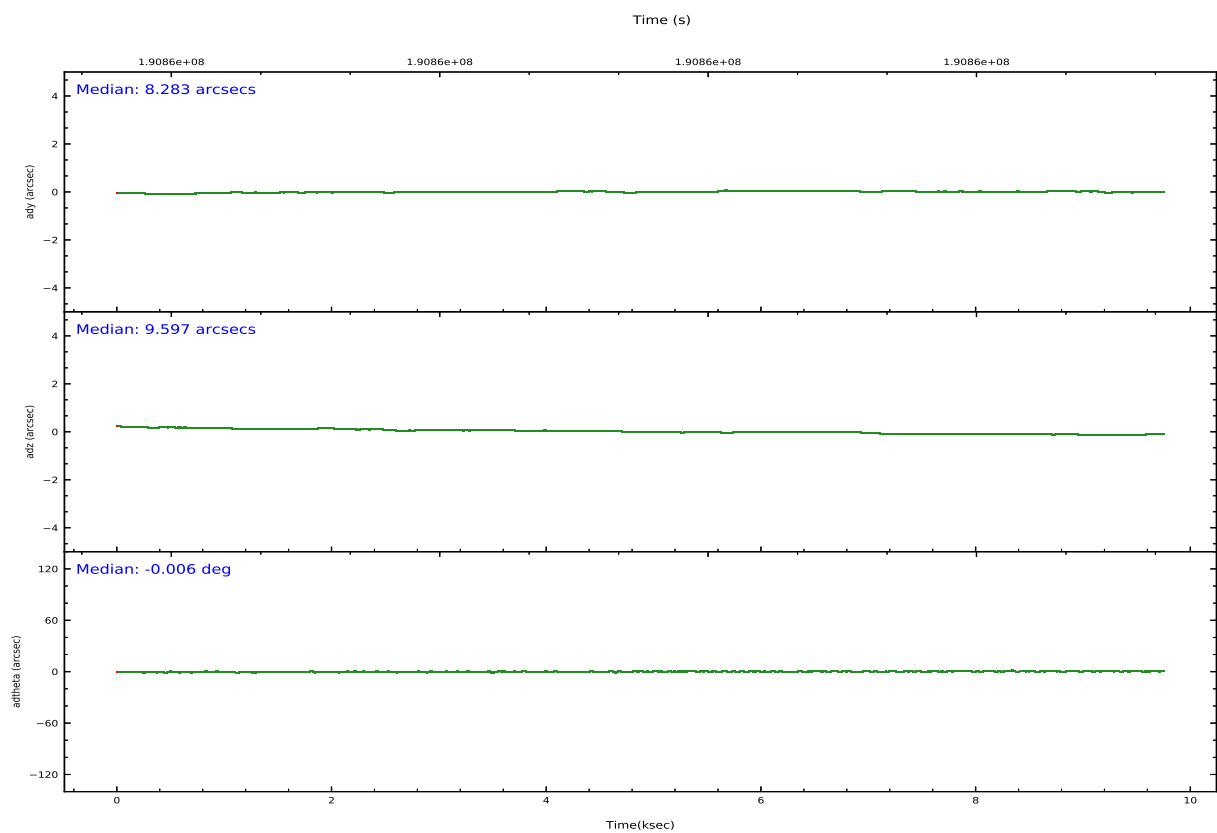
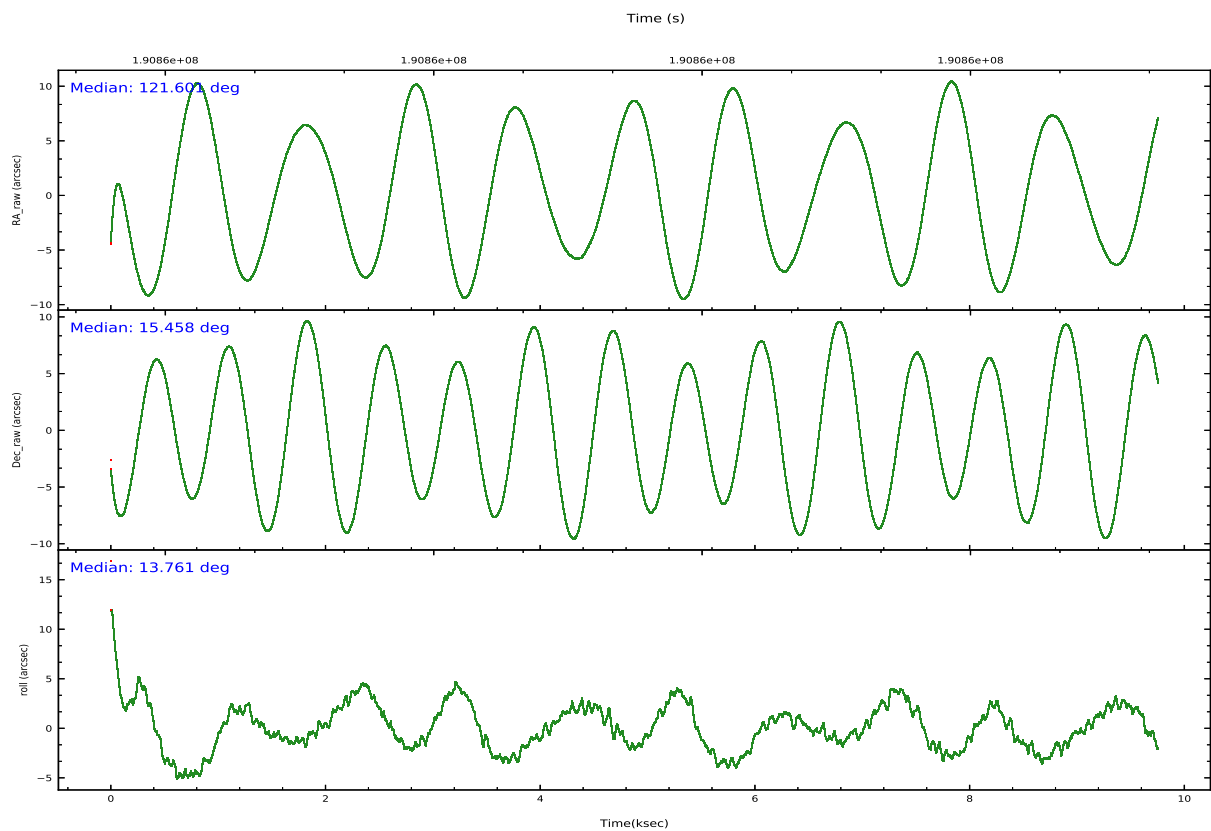


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	121.580994	121.59931838051	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.438616	15.454414312395	Alternating exposures requested	N	N
[deg] Pointing Roll	13.608515	13.761344963503	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	190854749.184000	190853748.51551			
Observation start date	2004-01-18T23:11:25	2004-01-18T22:55:48			
[s] Observation end time (MET)	190864249.184000	190864949.716			
Observation end date	2004-01-19T01:49:45	2004-01-19T02:02:29			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



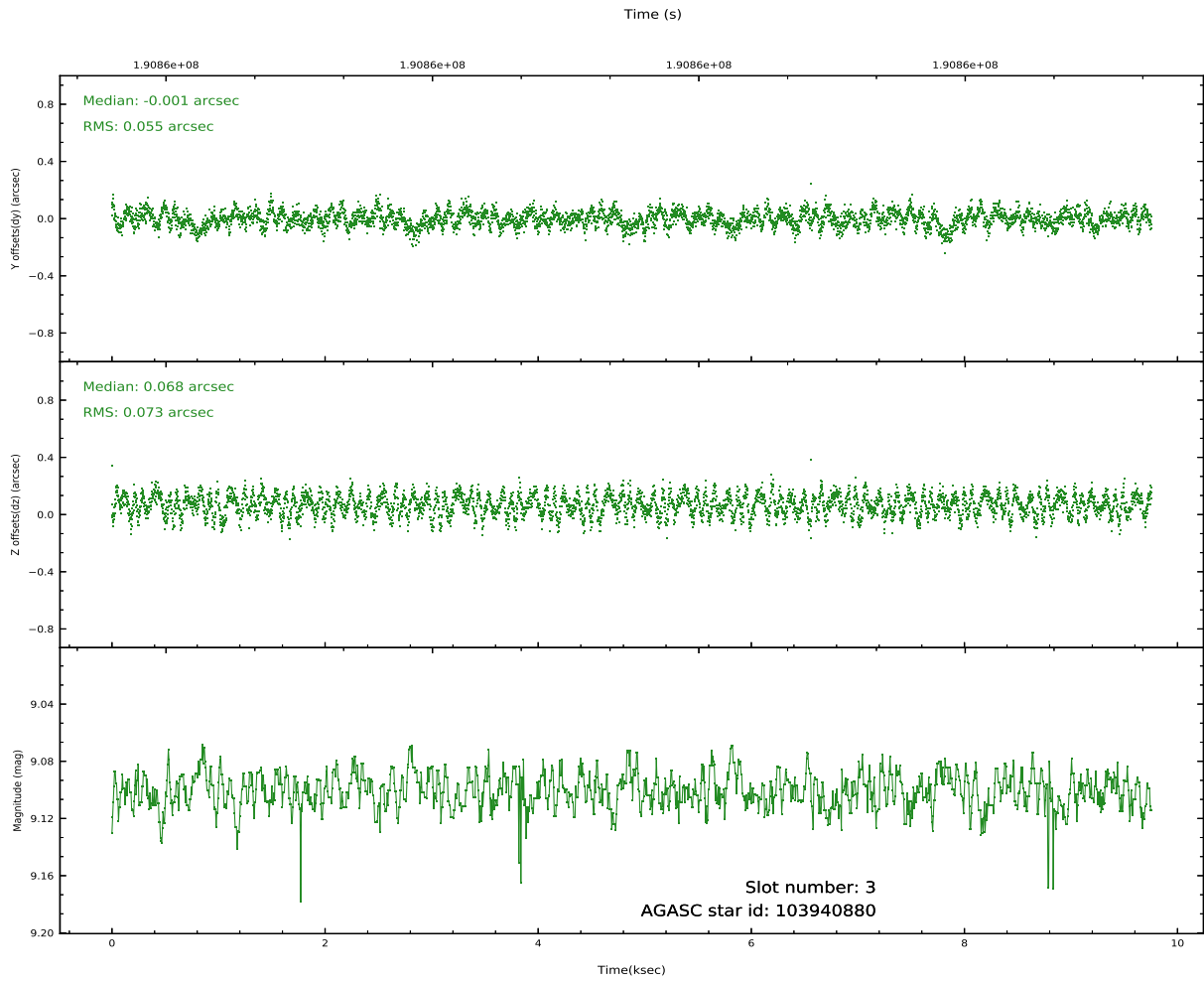
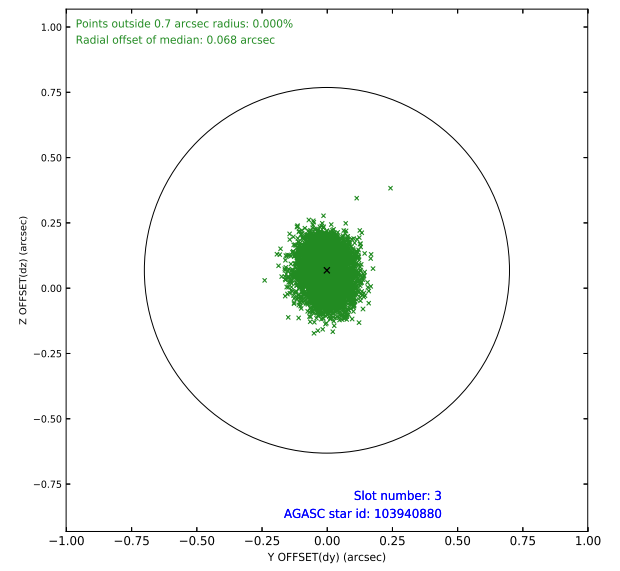
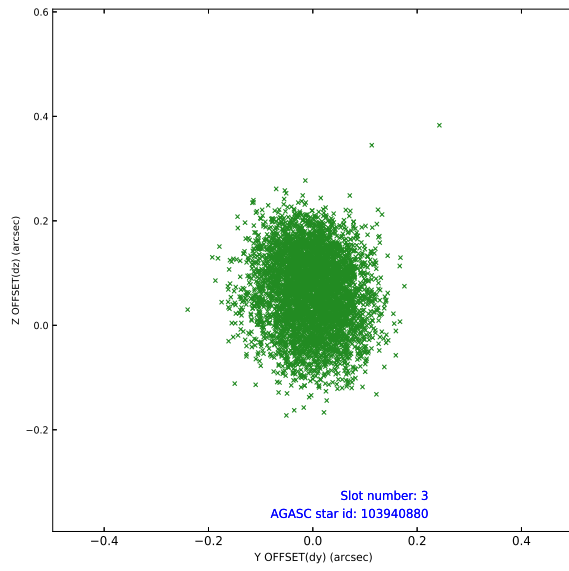


Slot Statistics

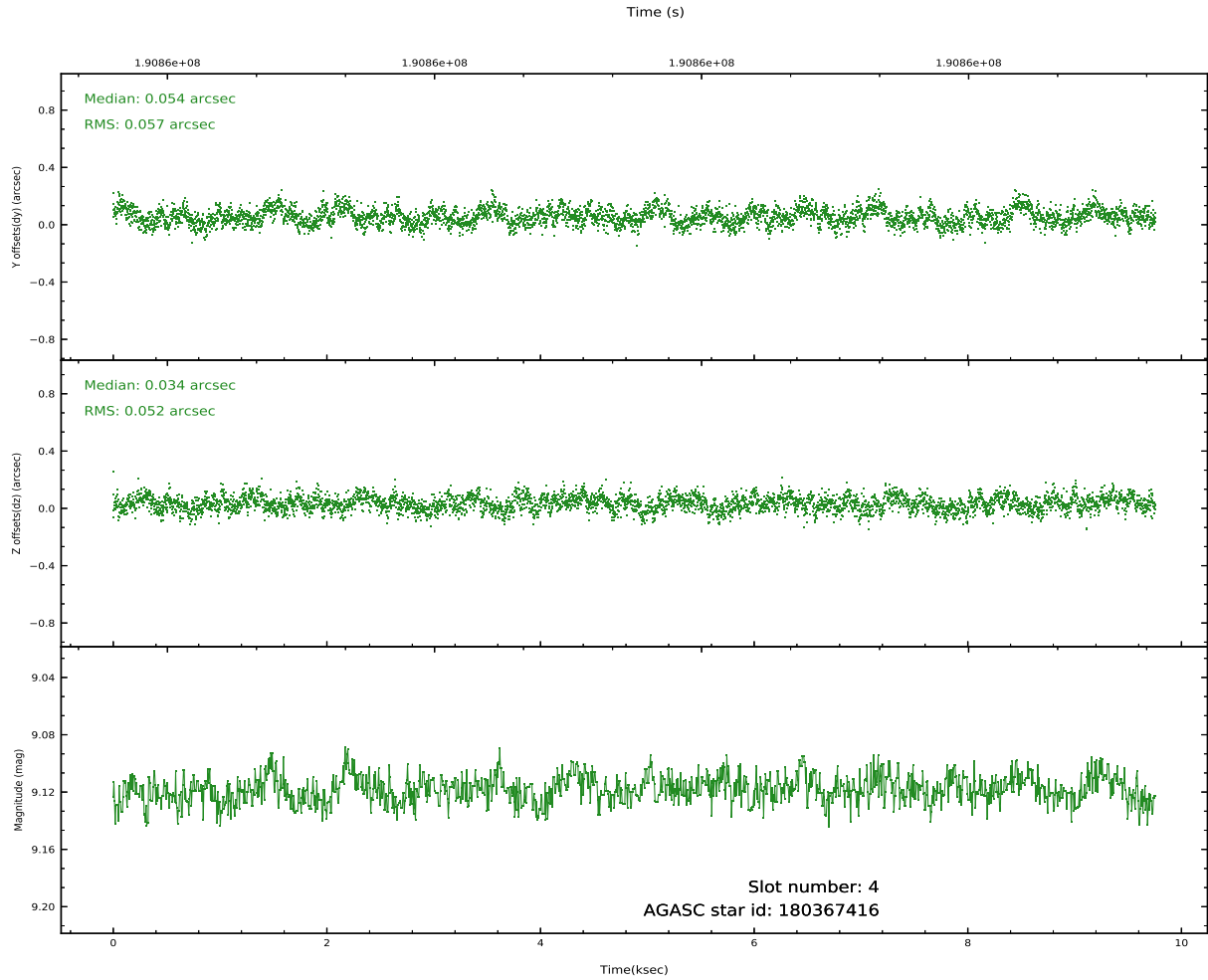
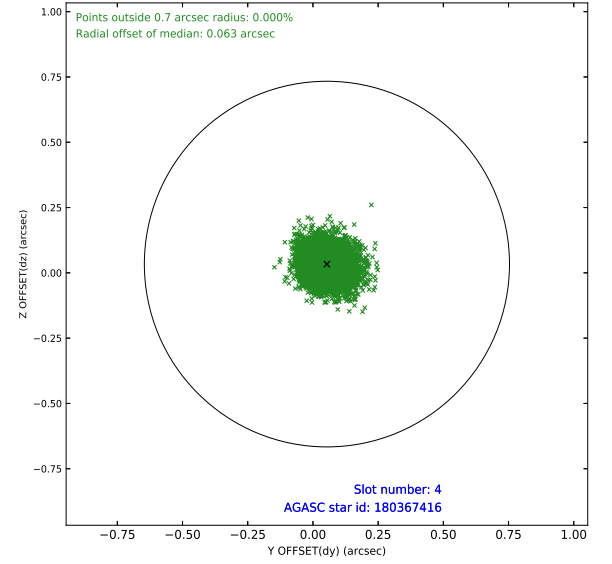
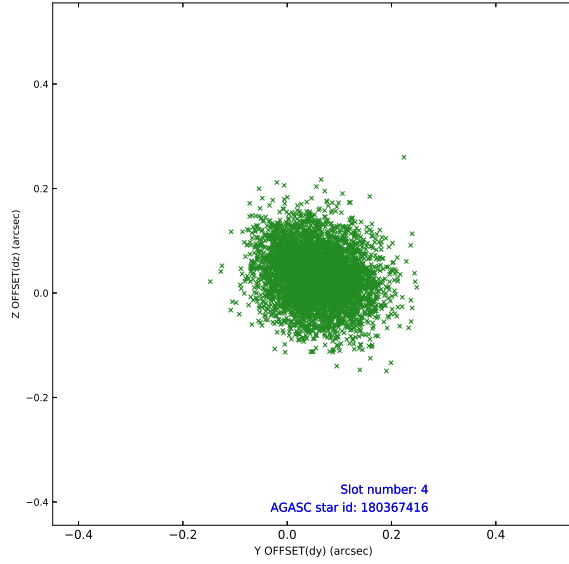
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2380	1.000	-0.054	-0.062	0.007	0.012	0.000000	0.000000	-761.06	-1730
1	FID		ACIS-S-4	7.21	2380	1.000	0.150	0.043	0.005	0.010	0.000000	0.000000	2152.11	177
2	FID		ACIS-S-5	7.23	2380	1.000	-0.127	0.028	0.007	0.012	0.000000	0.000000	-1813.33	171
3	GUIDE	used	103940880	9.10	4756	1.000	-0.001	0.068	0.099	0.154	121.309737	14.754895	-1496.29	-2169
4	GUIDE	used	180367416	9.12	4756	1.000	0.054	0.034	0.082	0.130	120.920648	15.525818	-2151.36	847
5	GUIDE	used	180370112	8.37	4760	1.000	-0.081	-0.113	0.062	0.099	121.144488	15.364256	-1536.30	97
6	GUIDE	used	180372496	7.92	4760	1.000	0.016	-0.028	0.061	0.098	121.745221	15.155380	315.10	-1124
7	GUIDE	used	180359160	9.57	4757	1.000	0.013	0.039	0.120	0.204	121.837257	16.020694	1355.47	1828

## 2.4 Star Slots

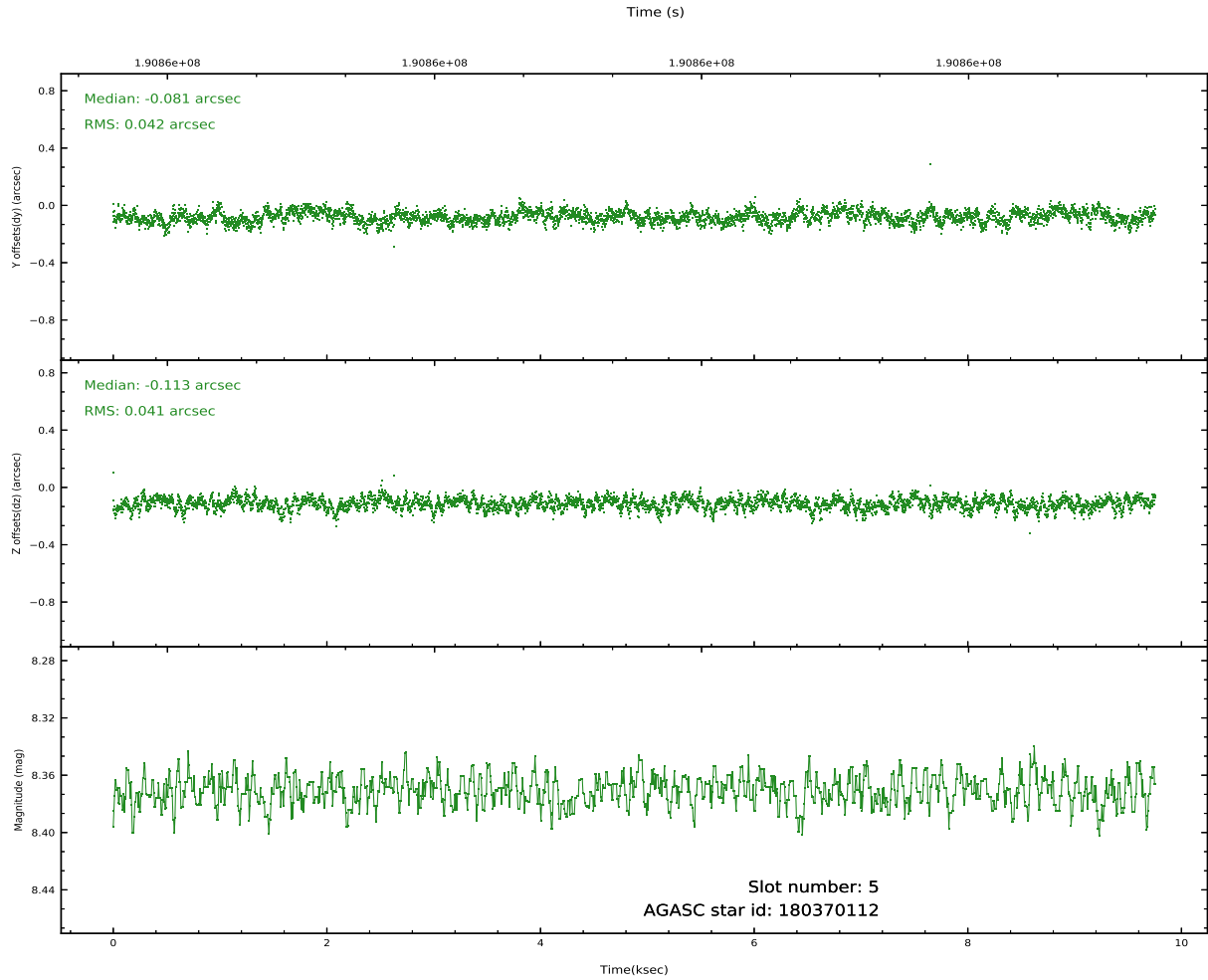
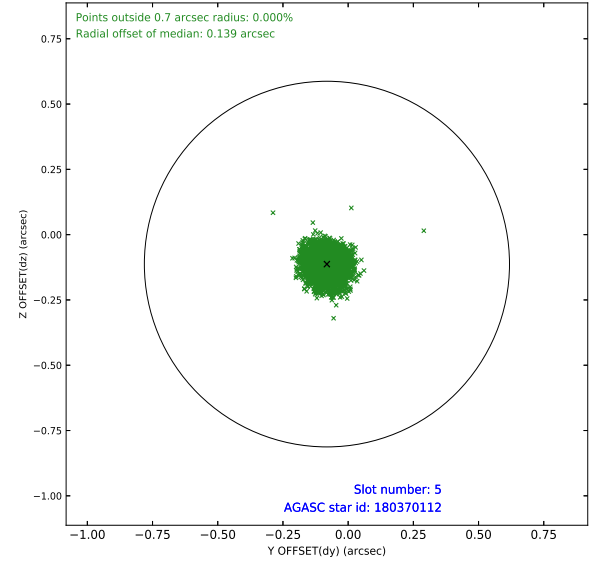
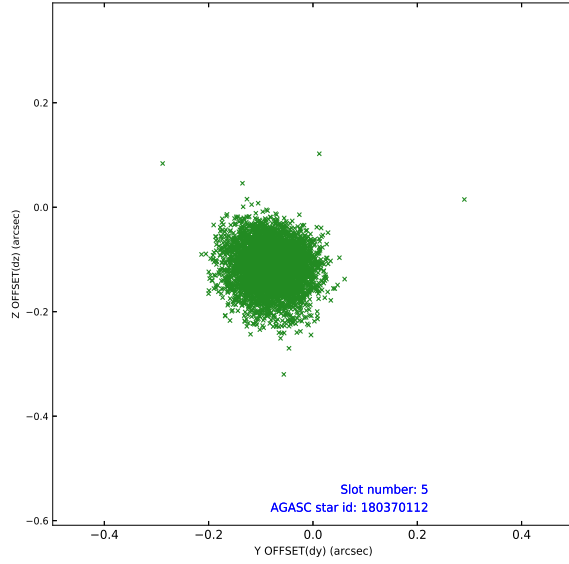
### 2.4.1 Slot 3



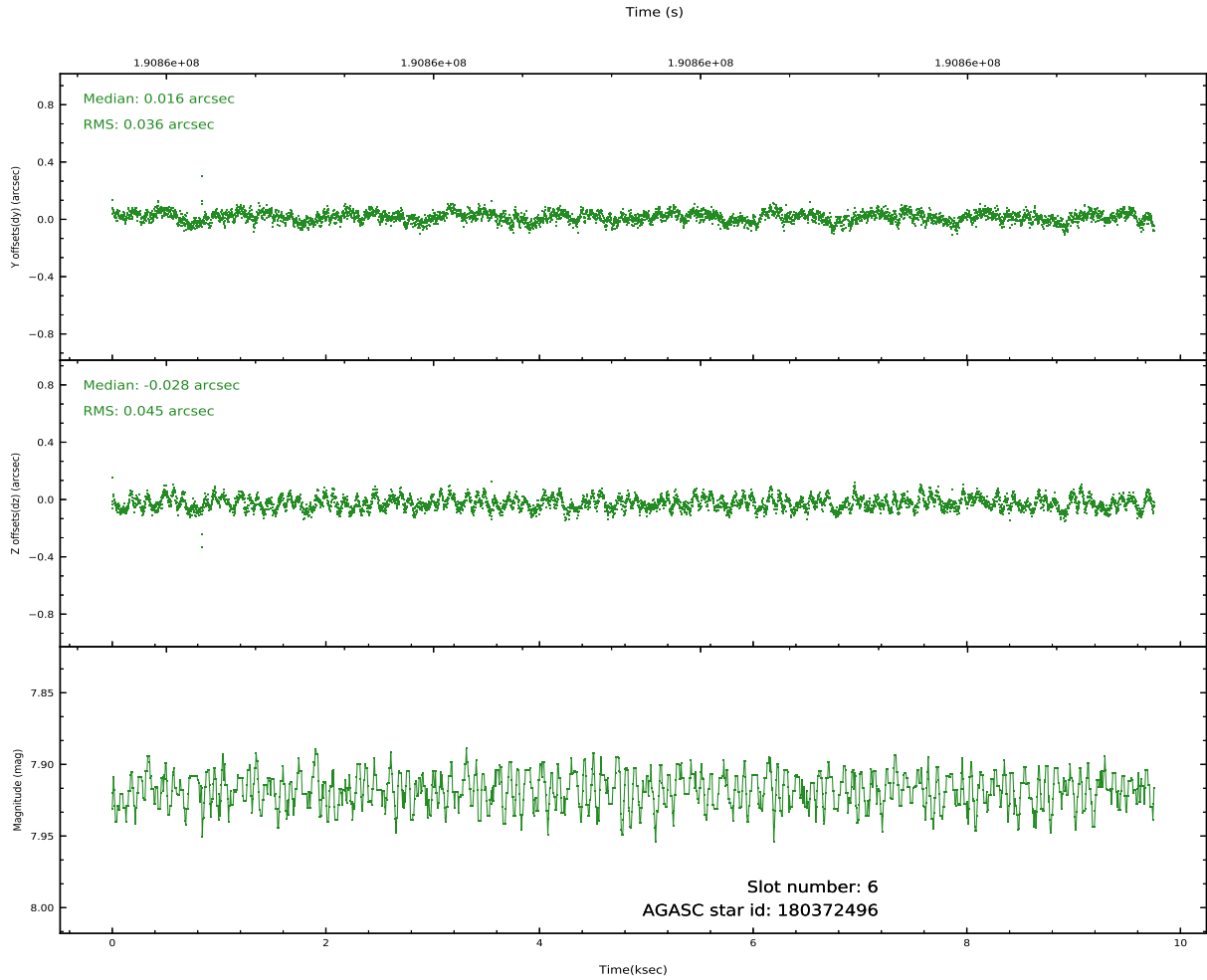
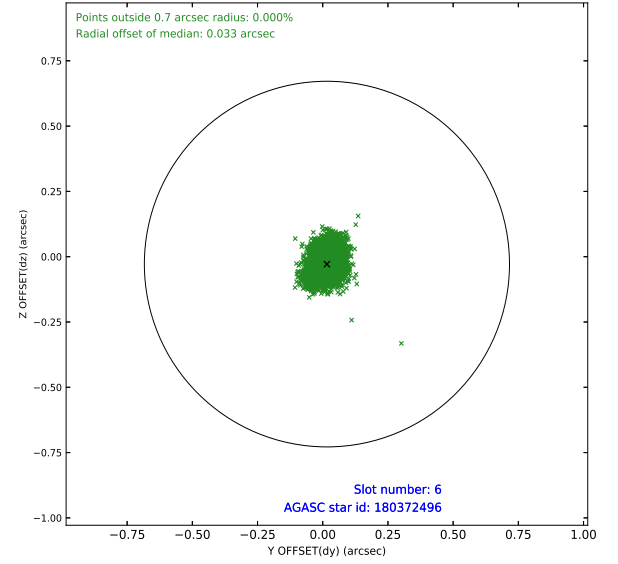
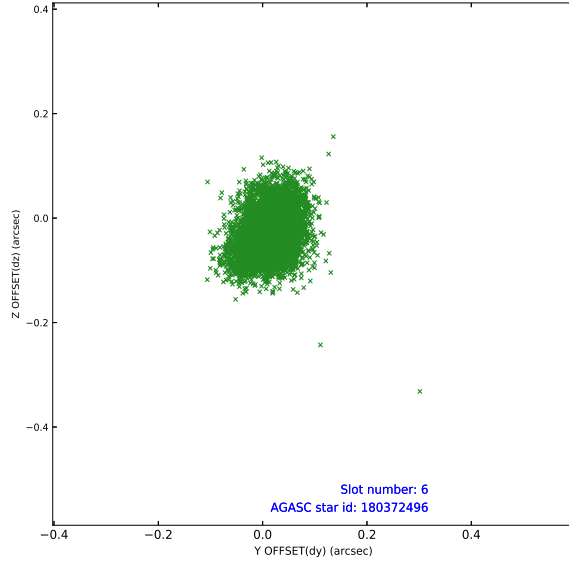
## 2.4.2 Slot 4



### 2.4.3 Slot 5

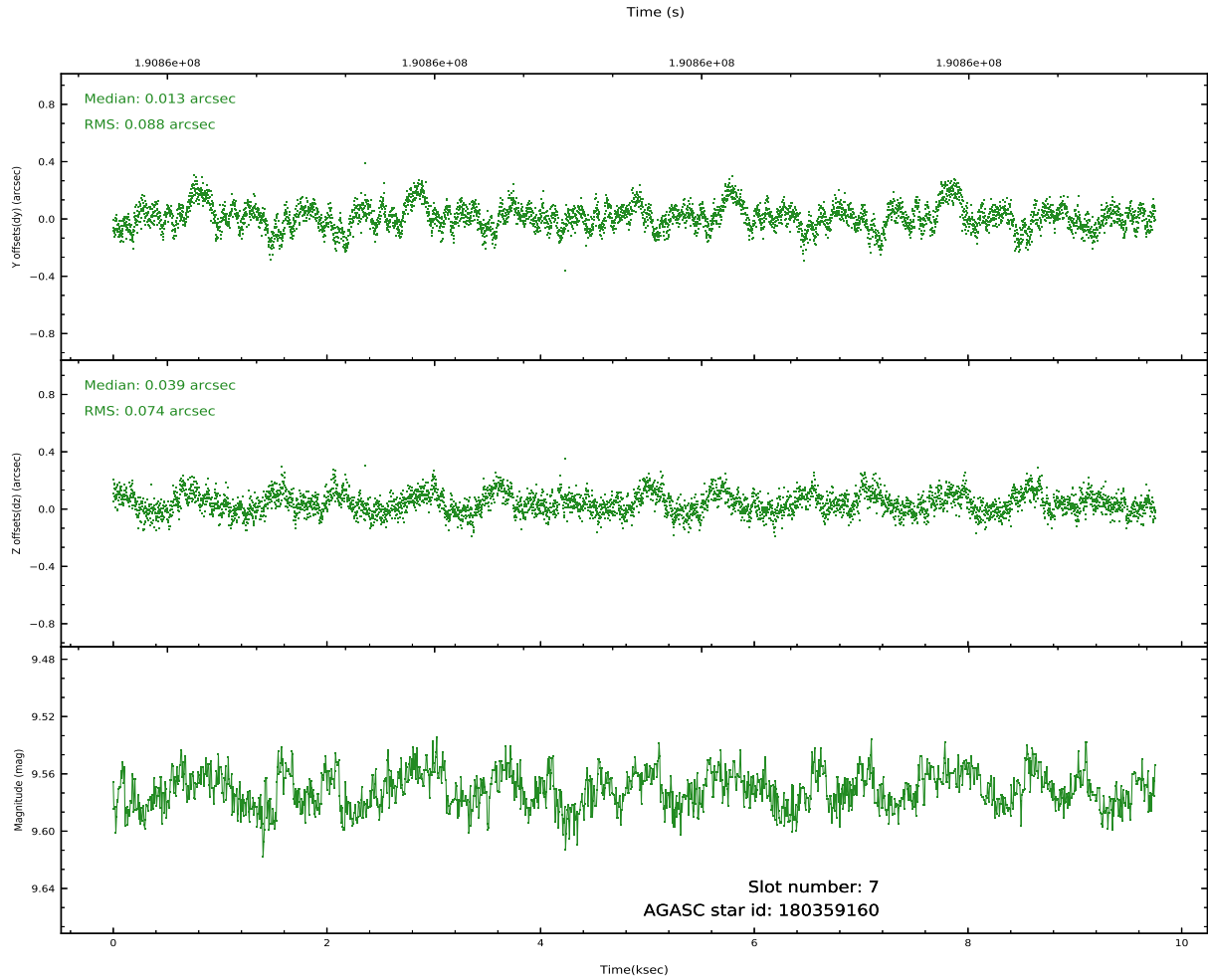
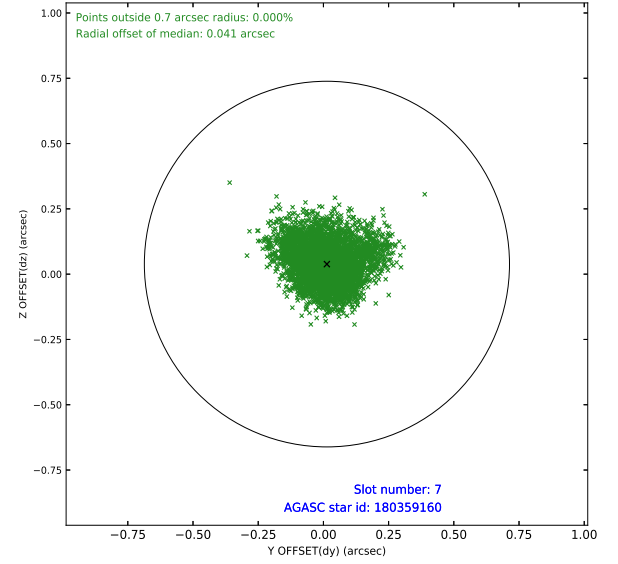
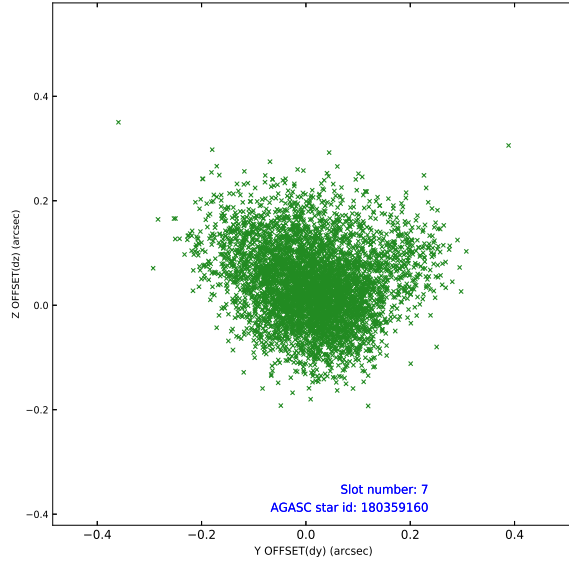


## 2.4.4 Slot 6



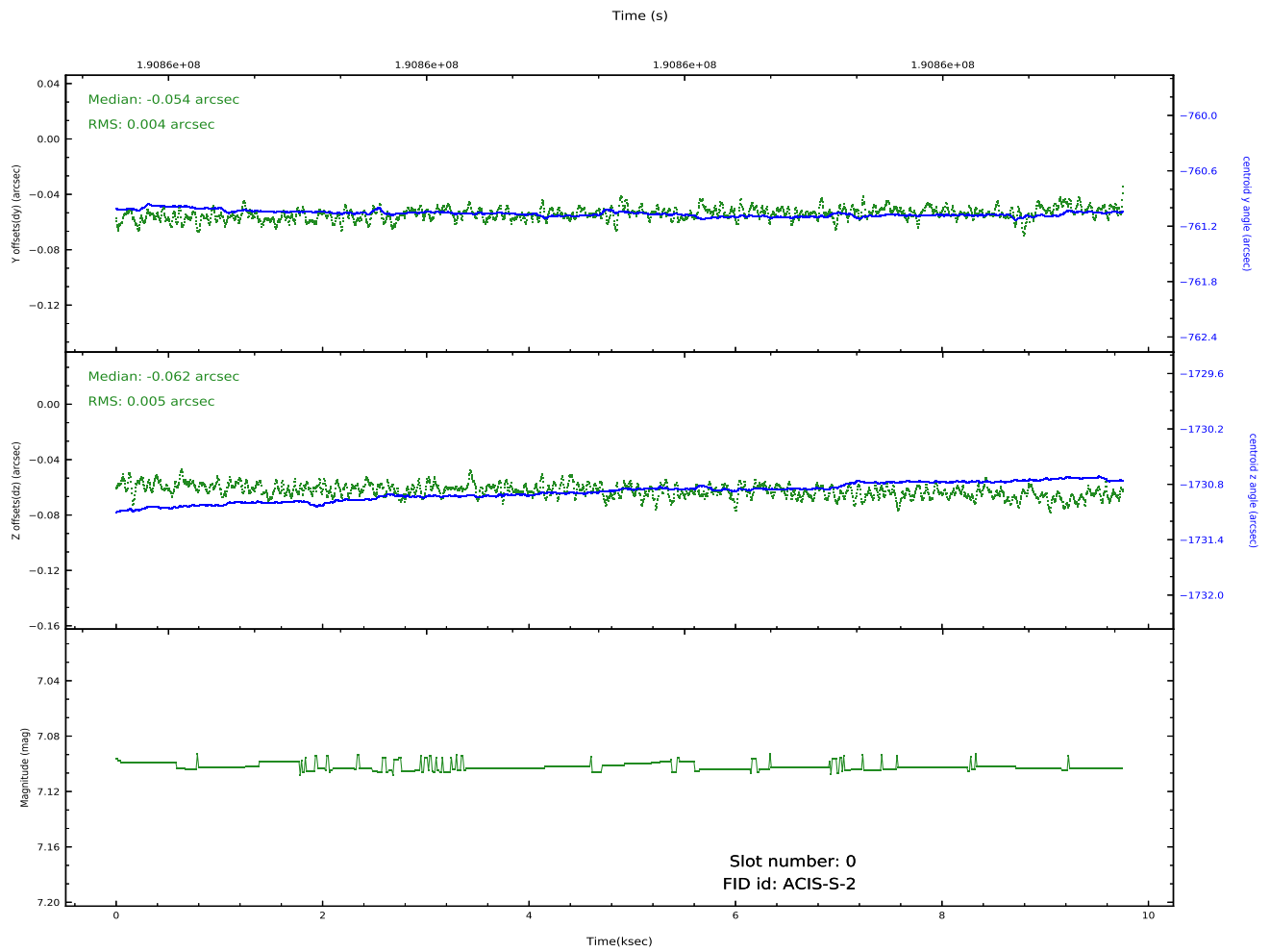
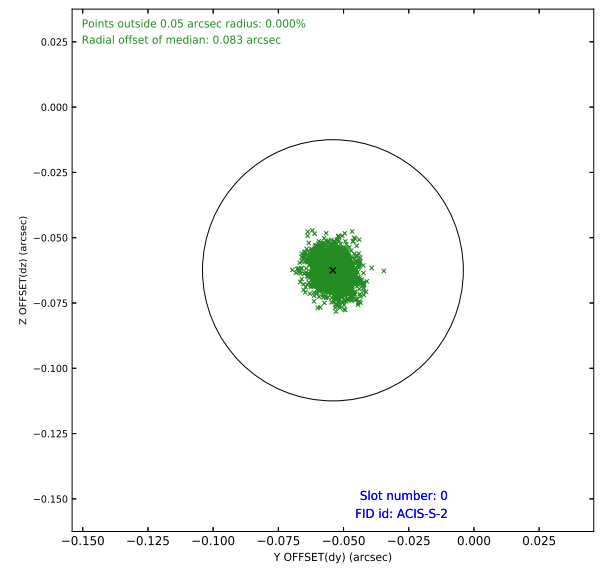
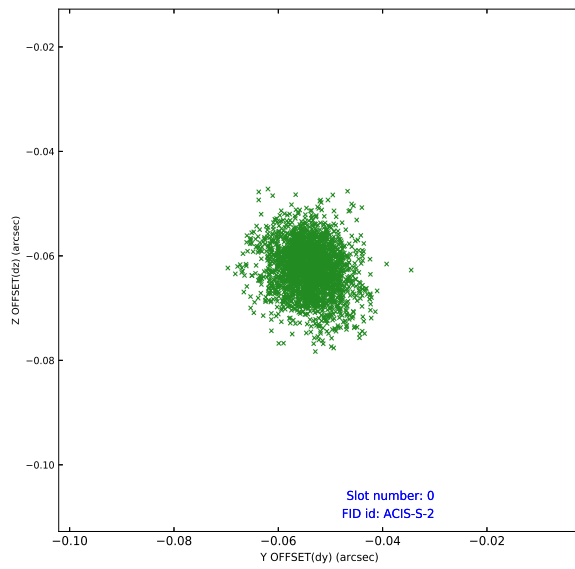


## 2.4.5 Slot 7

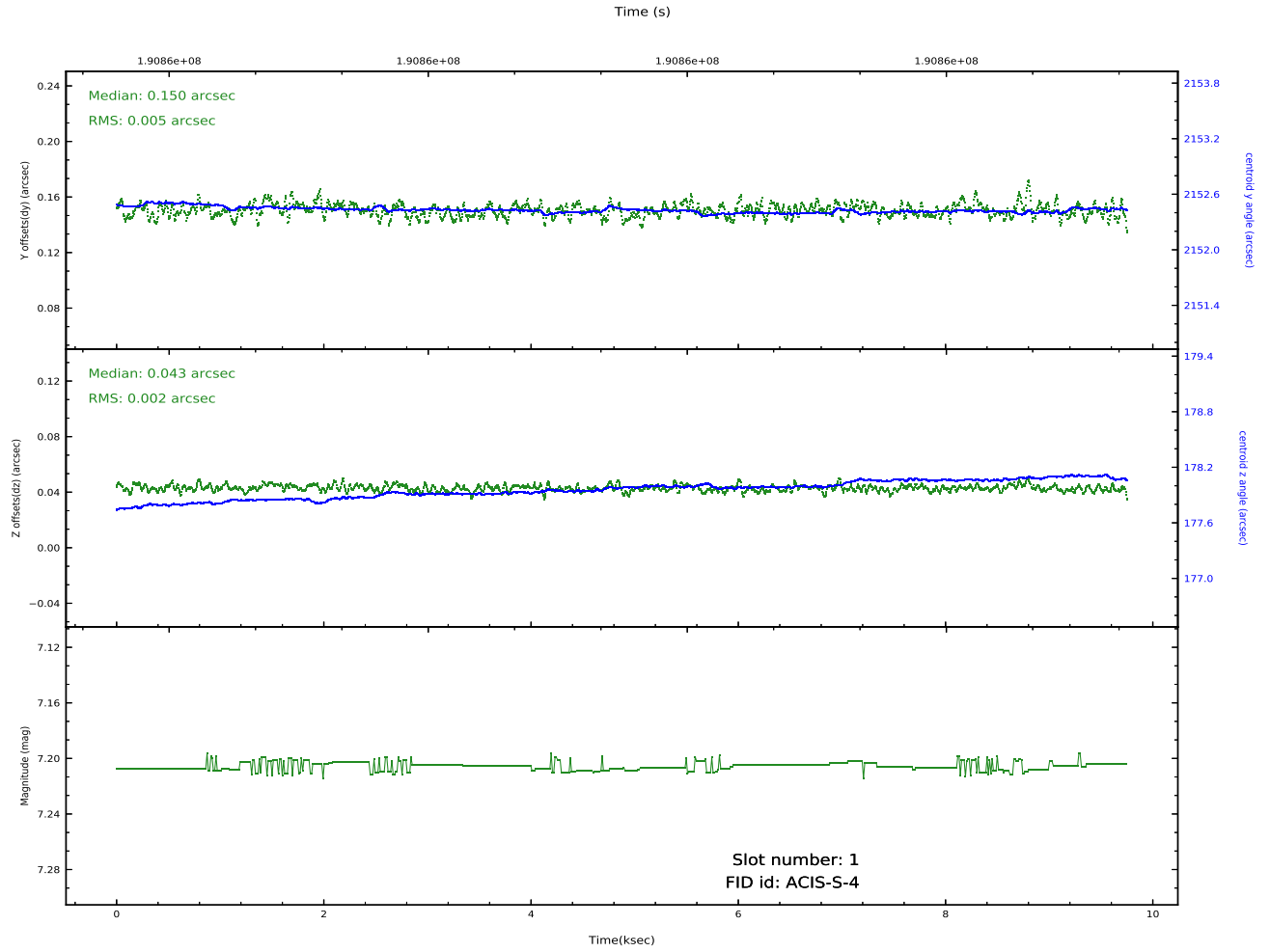
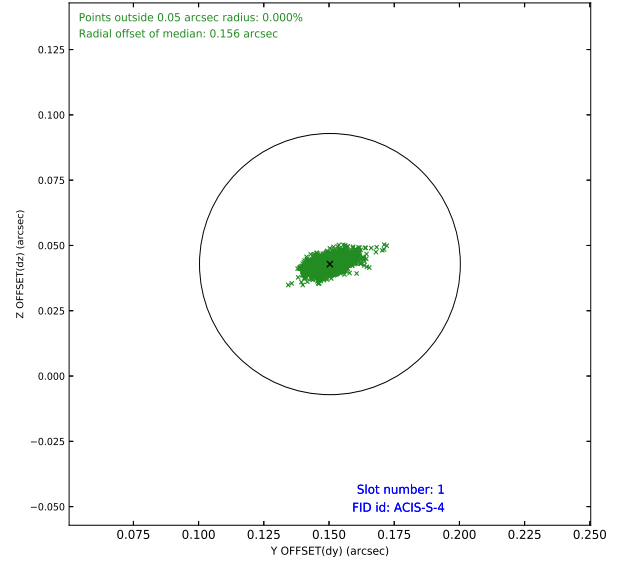
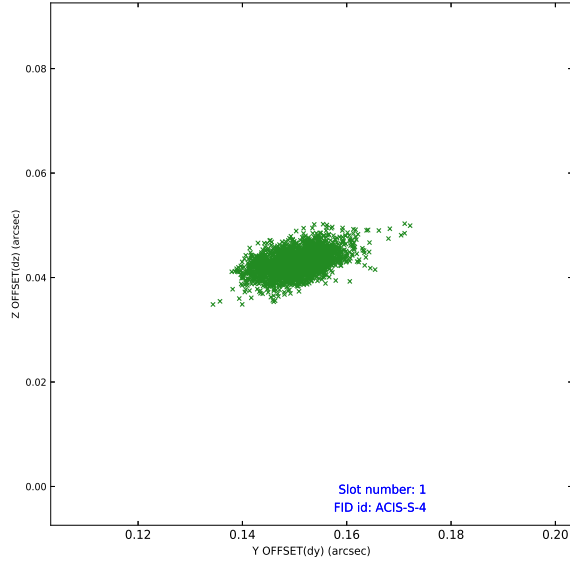


## 2.5 FID Slots

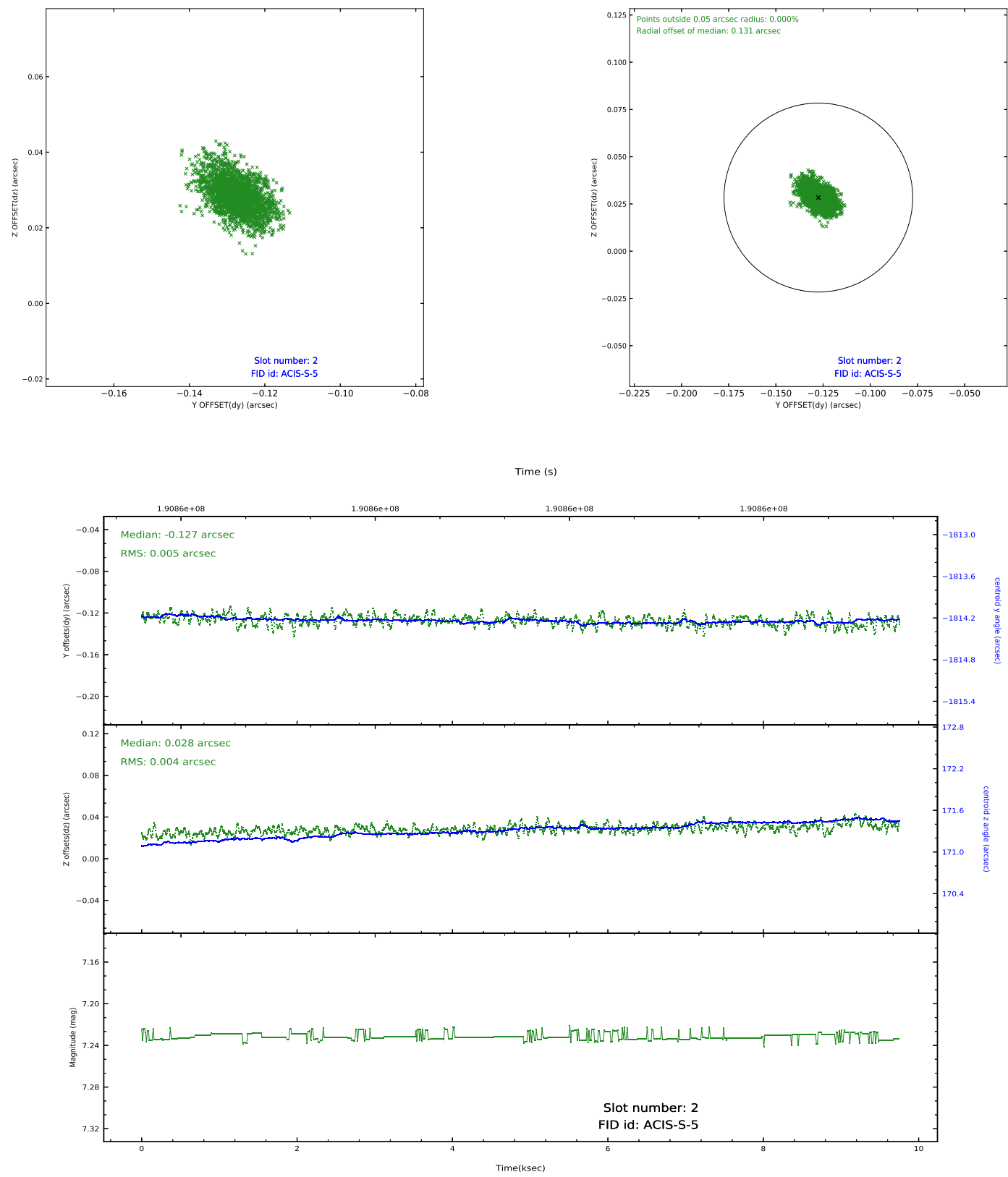
### 2.5.1 Slot 0



## 2.5.2 Slot 1



2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.755

### A.2 Comments