

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5705 - L2 Version 4  
Chandra X-Ray Center

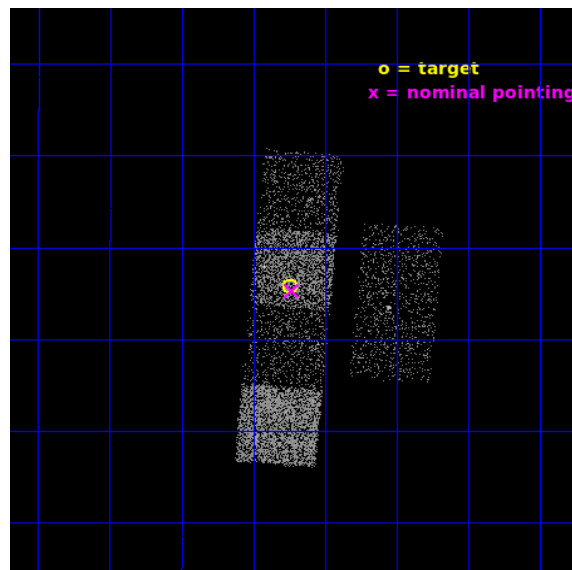
L2 Processing Date : Oct 7 2020

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# 1 Front

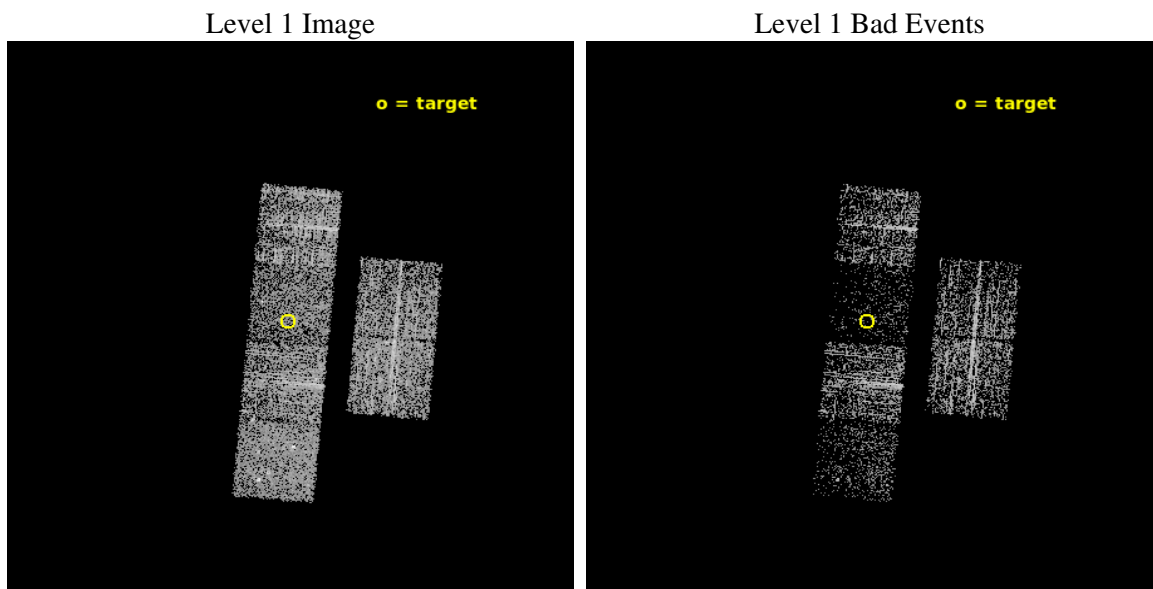
seq_num	701127	Sequence number
obs_id	5705	Observation id
title	A Uniform Chandra Survey of the Brightest and Most Extreme SDSS BALQSOs	Proposal title
observer	Dr. Scott Anderson	Principal investigator
object	SDSS J093514.71+033545.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.81125	Observer's specified target RA [deg]
dec_targ	3.596028	Observer's specified target Dec [deg]
ra_nom	143.80728939386	Nominal RA [deg]
dec_nom	3.5882017469352	Nominal Dec [deg]
roll_nom	275.11630865813	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1804.7999932766	Sum of GTIs [s]
livetime	1781.9465290416	Livetime [s]
ontime2	1804.7999932766	Sum of GTIs [s]
ontime3	1804.7999932766	Sum of GTIs [s]
ontime5	1804.7999932766	Sum of GTIs [s]
ontime6	1804.7999932766	Sum of GTIs [s]
ontime7	1804.7999932766	Sum of GTIs [s]
ontime8	1804.7999932766	Sum of GTIs [s]
l2events	10306	Number of level 2 events



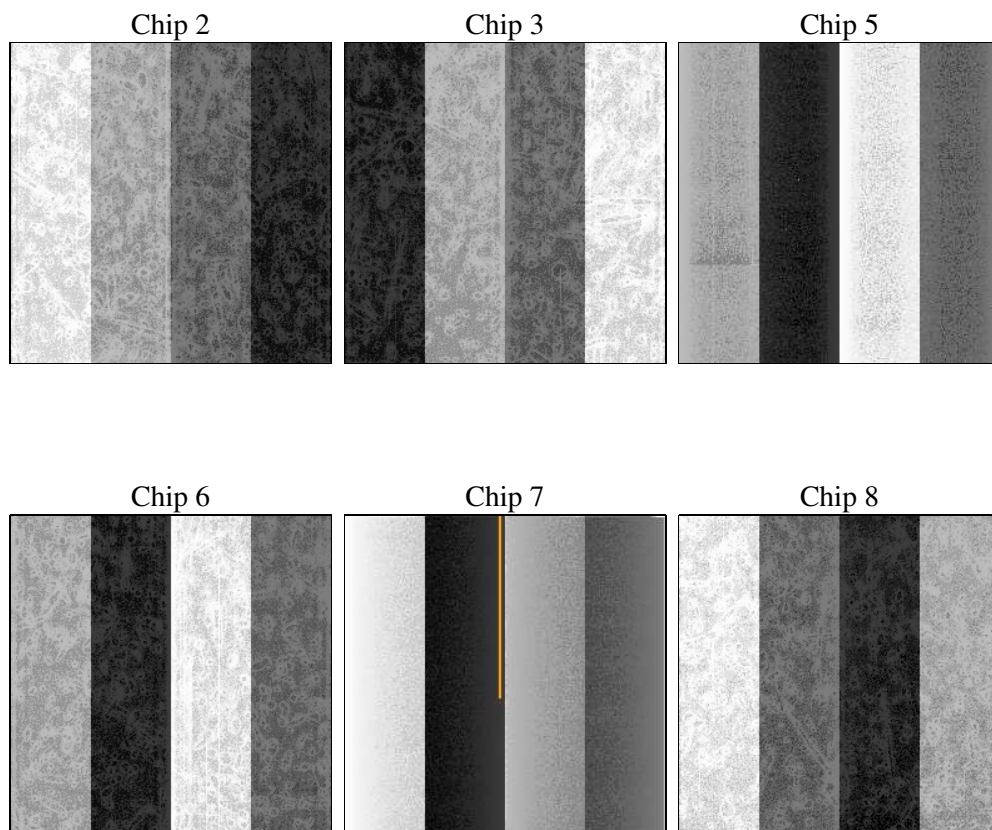
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1650.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1804.7999932766	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	1804.7999932766	Sum of GTIs [s]
date	2020-10-07T04:17:51	Date and time of file creation	ontime3	1804.7999932766	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1804.7999932766	Sum of GTIs [s]
			ontime6	1804.7999932766	Sum of GTIs [s]
			ontime7	1804.7999932766	Sum of GTIs [s]
			ontime8	1804.7999932766	Sum of GTIs [s]
			l1events	88731	Number of level 1 events

### 2.1.4 Events

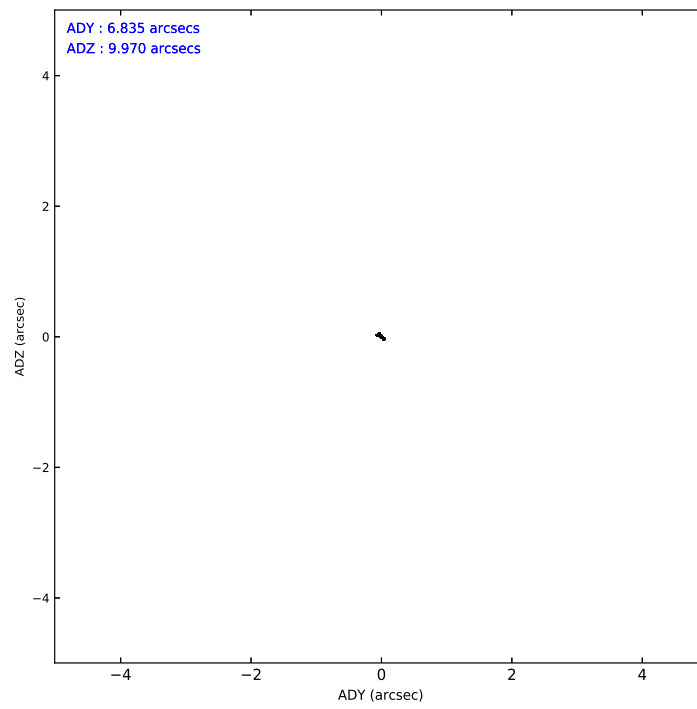
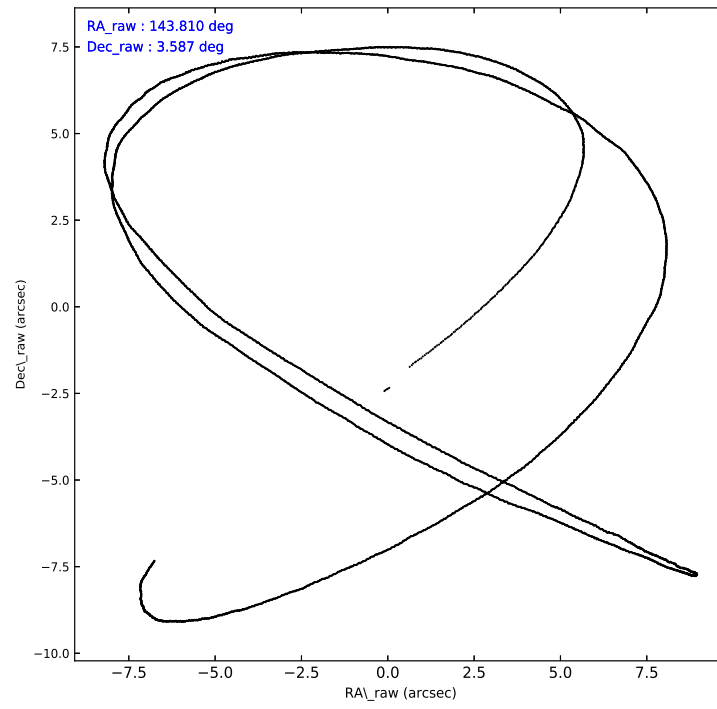
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17370	14372	14587	15757	9021	17624
rejected events	16563	13681	9198	14824	5832	14871
rejected %	95%	95%	63%	94%	64%	84%

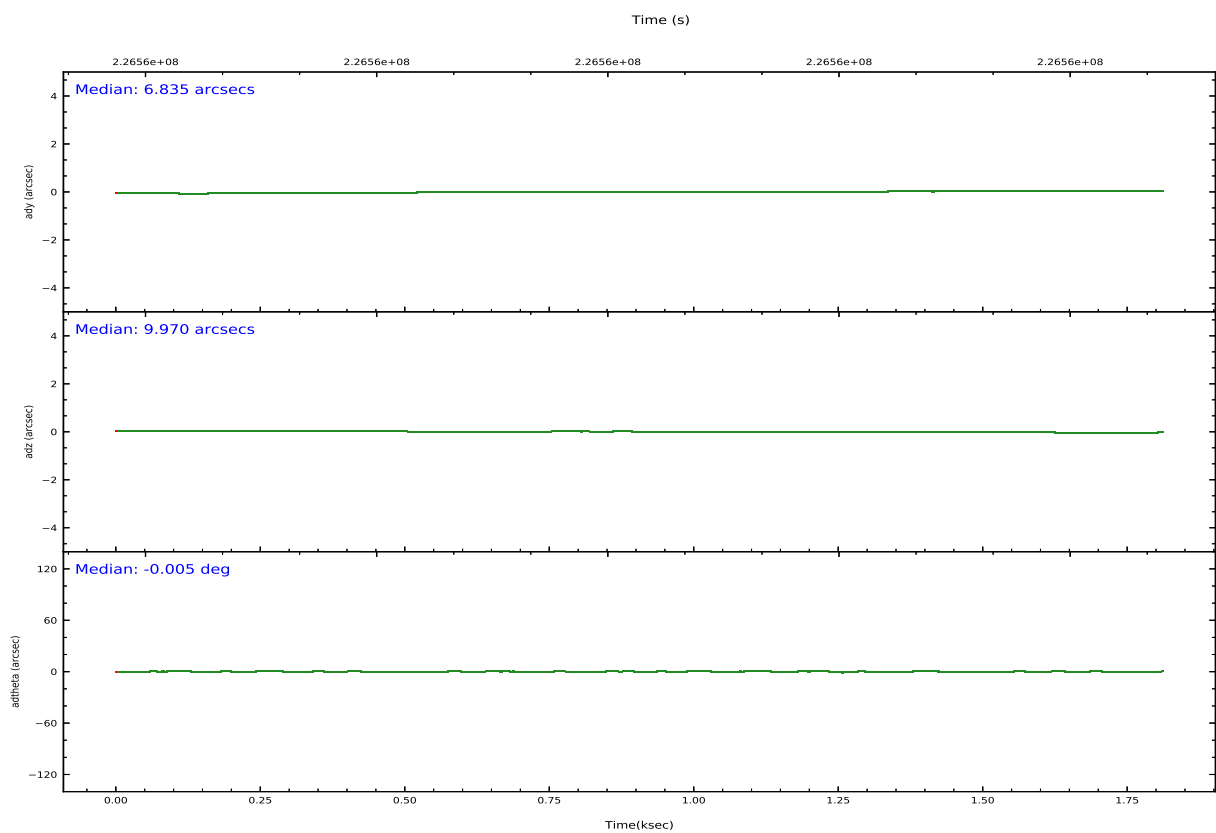
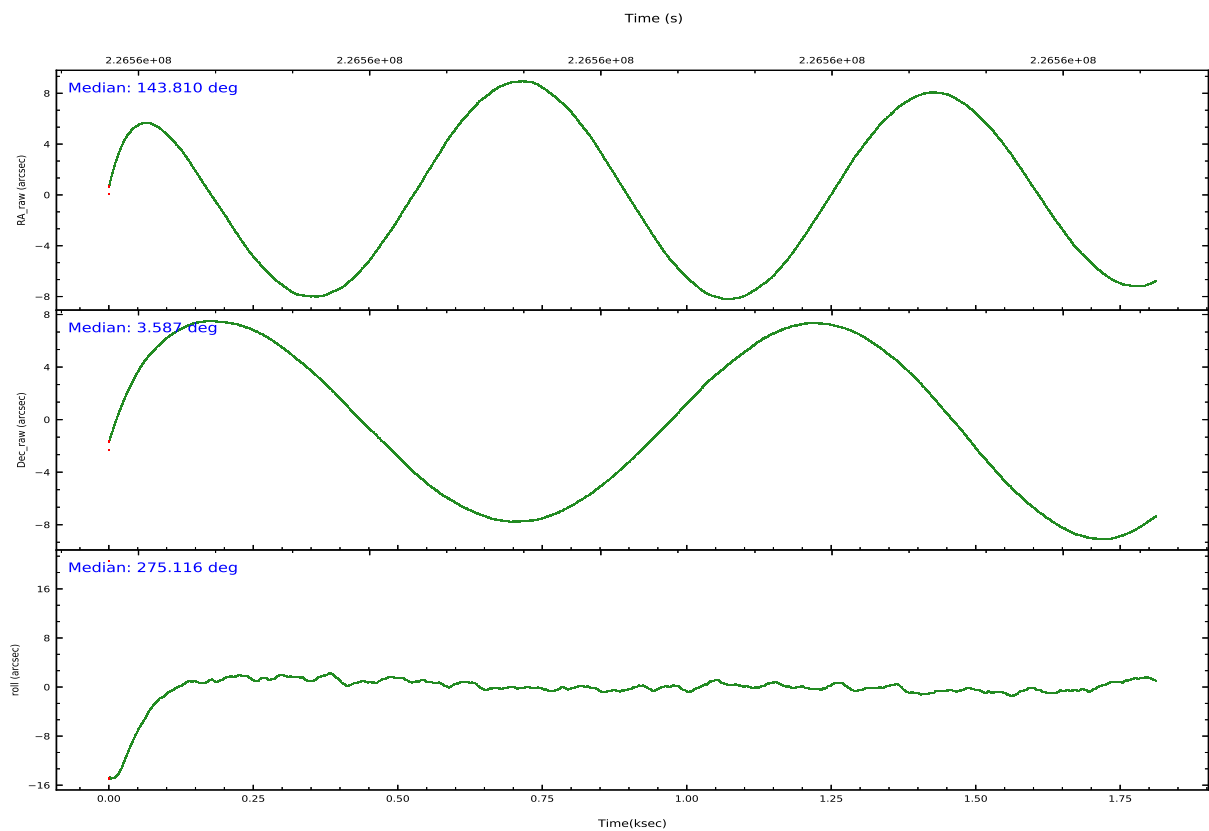
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	570	477	1666	633	689	1348
	3%	3%	11%	4%	7%	7%
grade 1 events	9	8	40	12	11	19
	0%	0%	0%	0%	0%	0%
grade 2 events	293	242	2855	333	1280	1119
	1%	1%	19%	2%	14%	6%
grade 3 events	128	150	478	164	606	520
	0%	1%	3%	1%	6%	2%
grade 4 events	144	136	443	143	554	478
	0%	0%	3%	0%	6%	2%
grade 5 events	254	278	1172	321	946	538
	1%	1%	8%	2%	10%	3%
grade 6 events	195	208	3577	233	2236	1235
	1%	1%	24%	1%	24%	7%
grade 7 events	15777	12873	4356	13918	2699	12367
	90%	89%	29%	88%	29%	70%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	143.794414	143.80728939386	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.608455	3.5882017469352	Alternating exposures requested	N	N
[deg] Pointing Roll	274.960997	275.11630865813	[s] Primary exposure time	0.000000	3.2
[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)	226559711.184000	226558048.65408			
Observation start date	2005-03-07T05:14:07	2005-03-07T04:47:28			
[s] Observation end time (MET)	226561361.184000	226563220.80431			
Observation end date	2005-03-07T05:41:37	2005-03-07T06:13:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





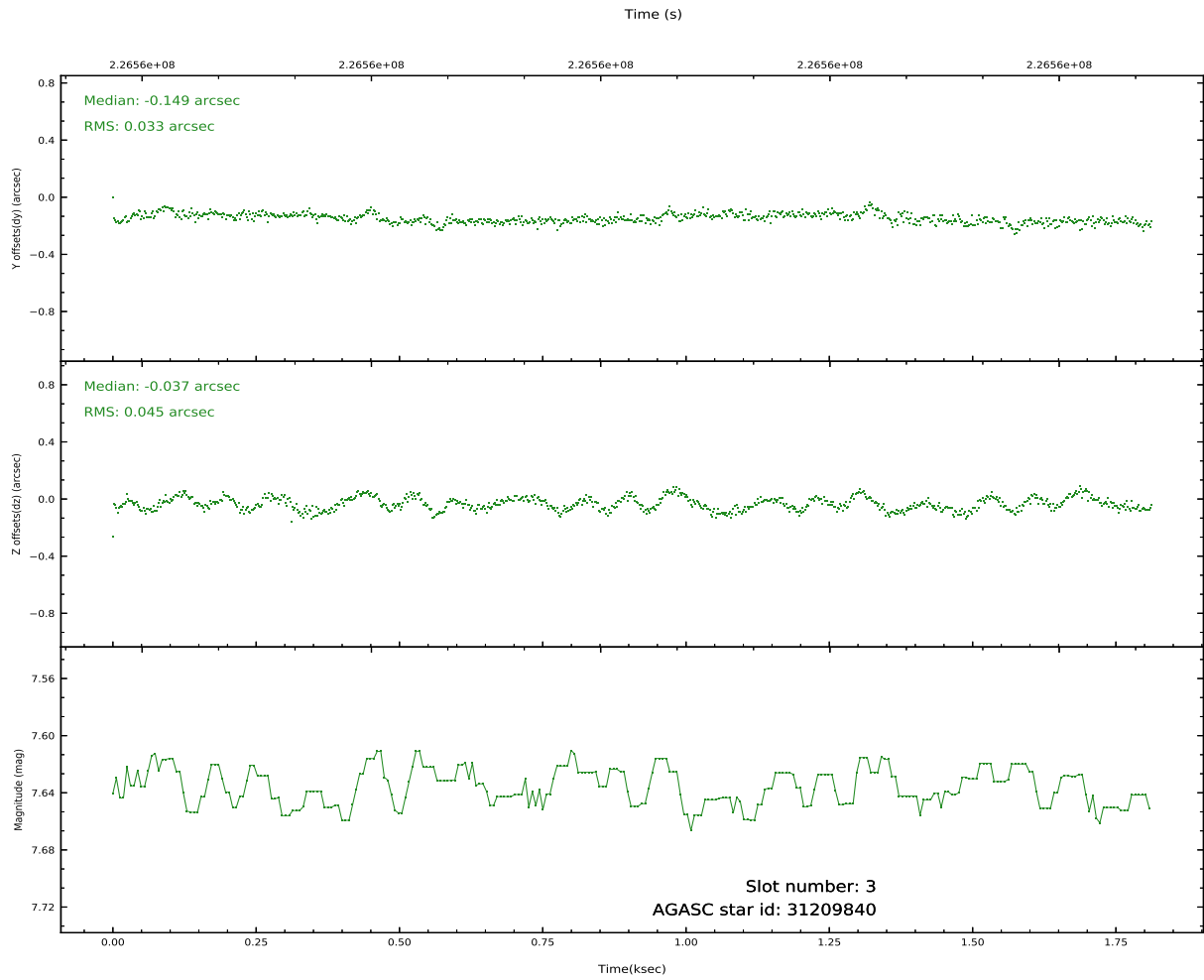
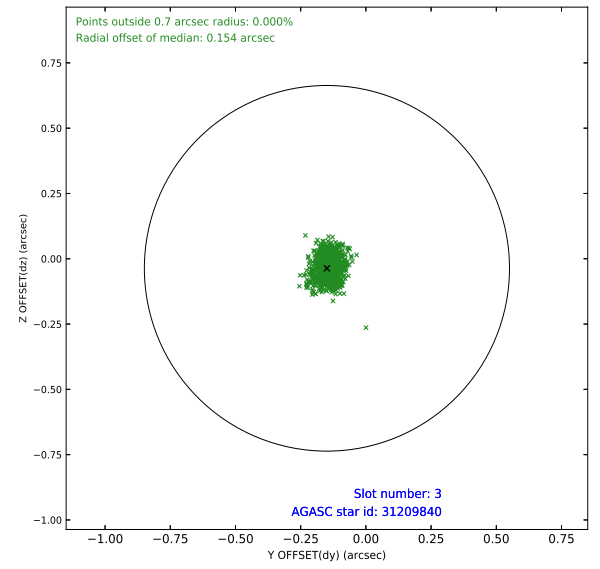
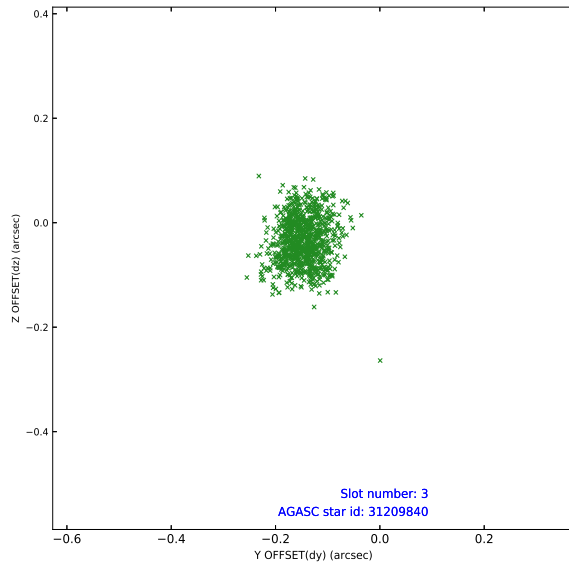
Slot Statistics

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	442	1.000	-0.113	-0.089	0.006	0.010	0.000000	0.000000	-759.64	-1731
1	FID		ACIS-S-4	7.20	443	1.000	0.098	0.057	0.006	0.010	0.000000	0.000000	2152.15	173
2	FID		ACIS-S-6	7.34	442	1.000	-0.012	0.038	0.007	0.010	0.000000	0.000000	407.05	815
3	GUIDE	used	31209840	7.64	885	1.000	-0.149	-0.037	0.060	0.096	143.770519	4.039511	-1553.05	48
4	GUIDE	used	31210104	8.53	885	1.000	-0.146	0.044	0.067	0.107	143.273316	4.171416	-2182.28	-1688
5	GUIDE	used	31212136	8.88	885	1.000	0.013	-0.028	0.084	0.126	143.199262	3.694680	-496.69	-2105
6	GUIDE	used	31212688	9.18	885	1.000	0.123	0.171	0.087	0.131	144.208430	3.081988	2016.59	1317
7	GUIDE	used	31211088	8.57	884	1.000	0.159	-0.147	0.071	0.125	143.184856	2.970230	2102.22	-2380

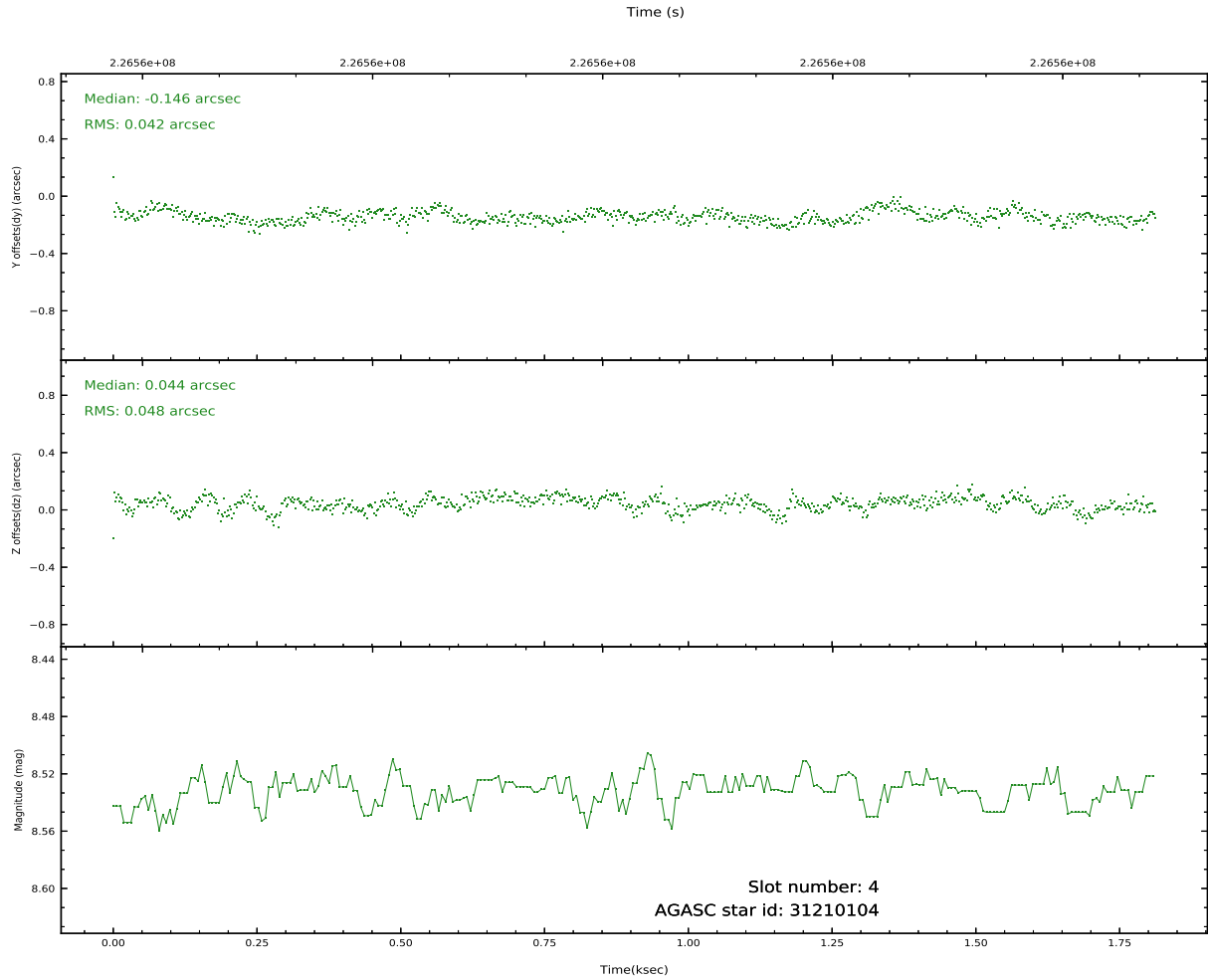
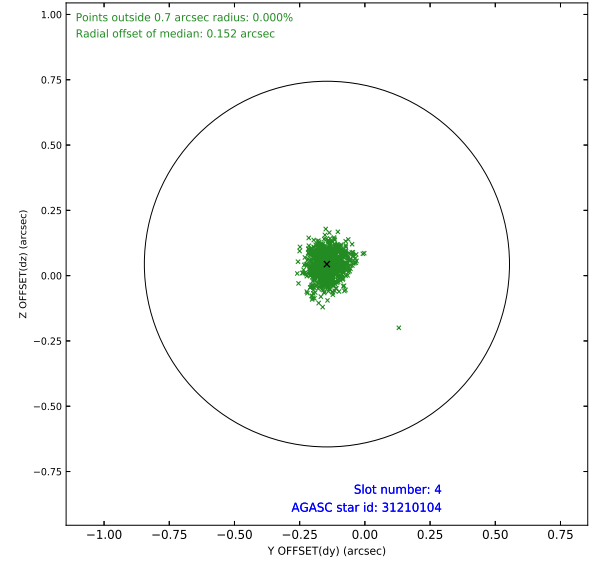
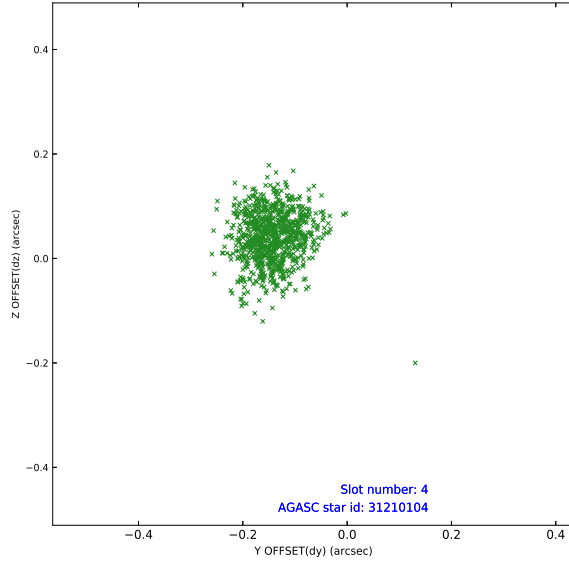


## 2.4 Star Slots

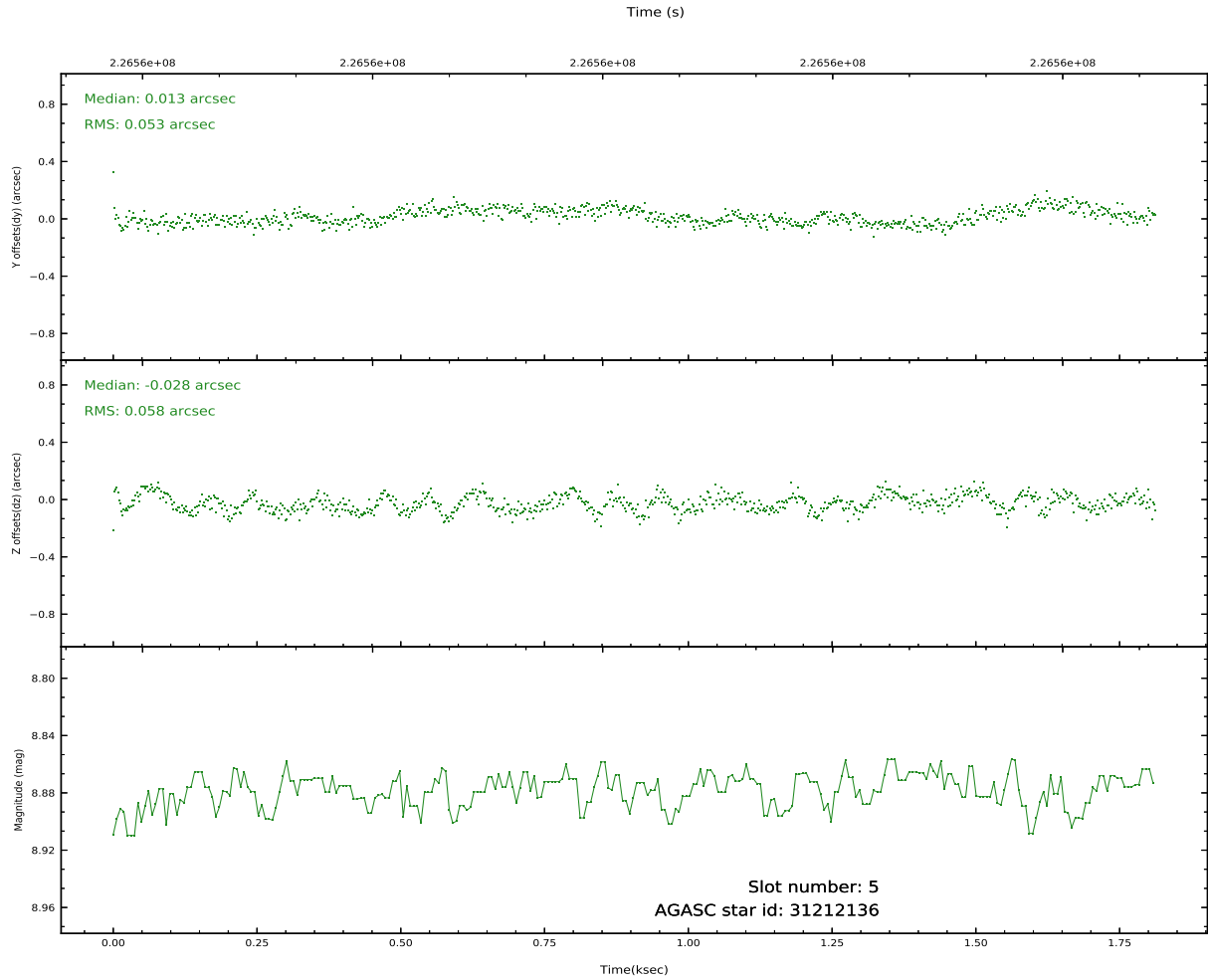
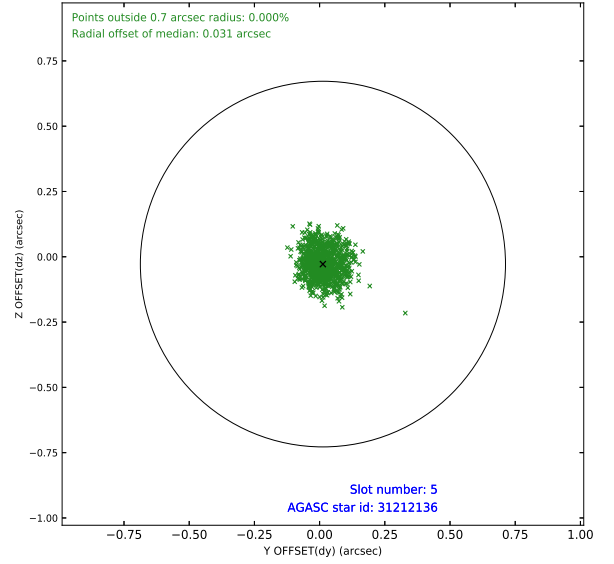
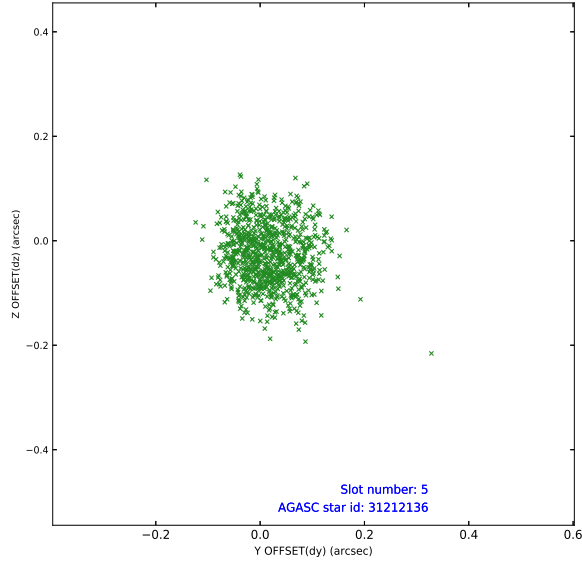
### 2.4.1 Slot 3



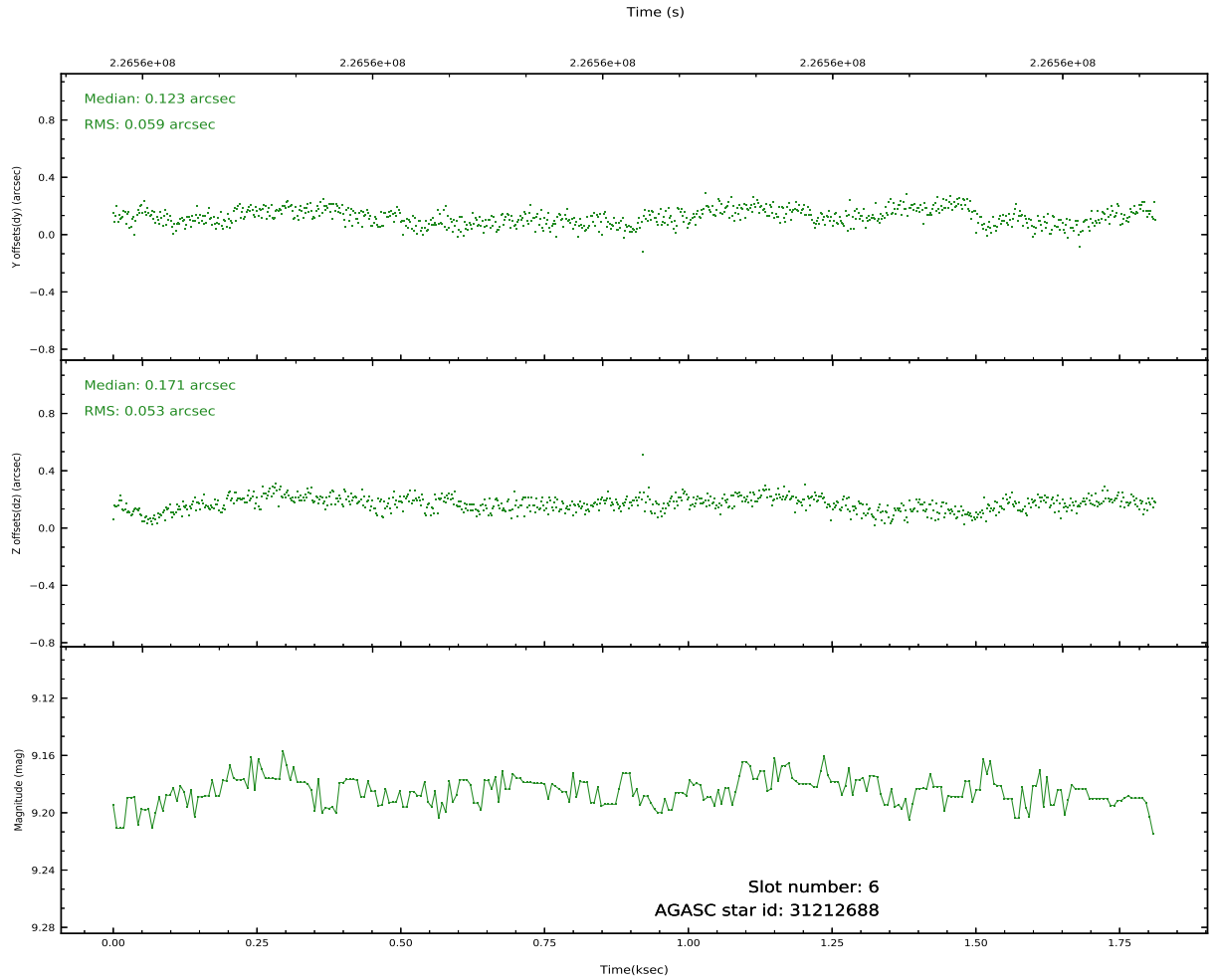
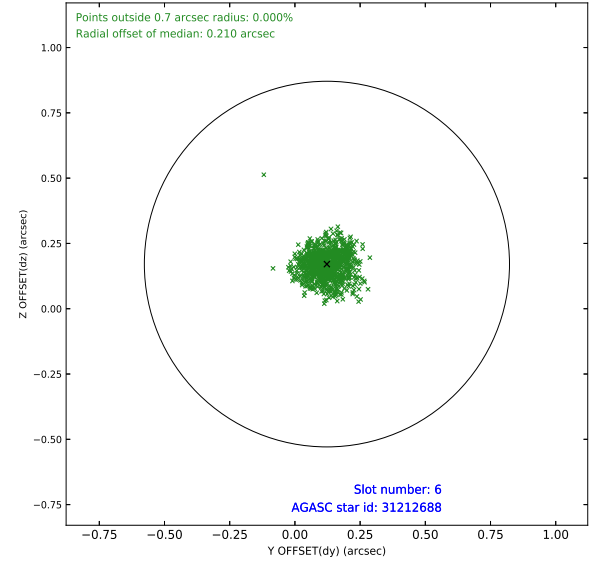
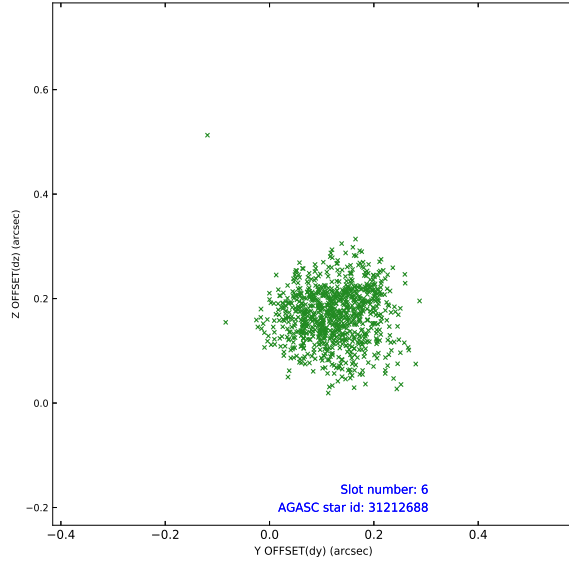
## 2.4.2 Slot 4



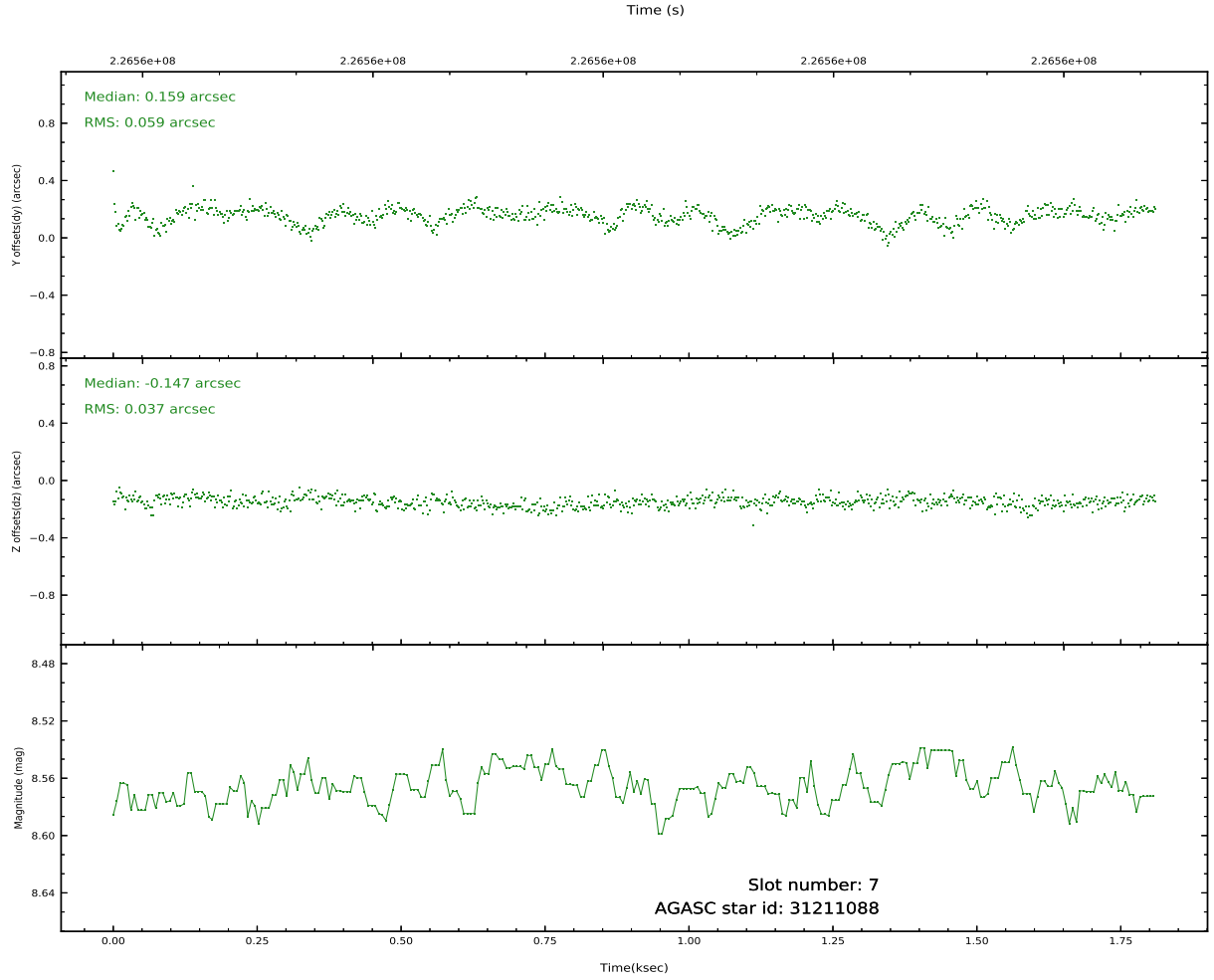
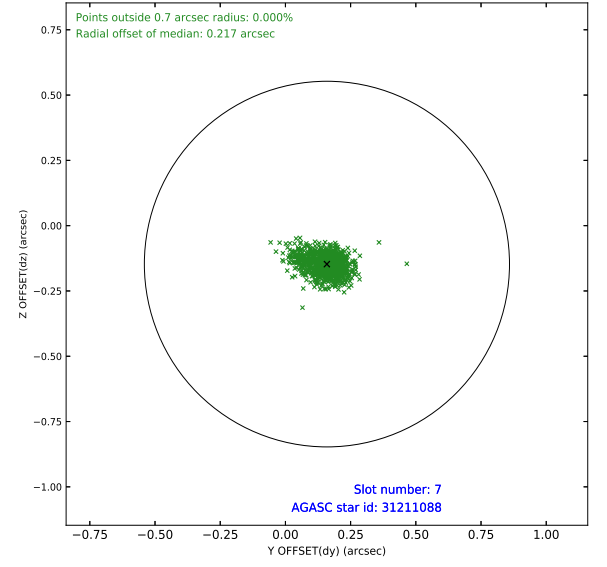
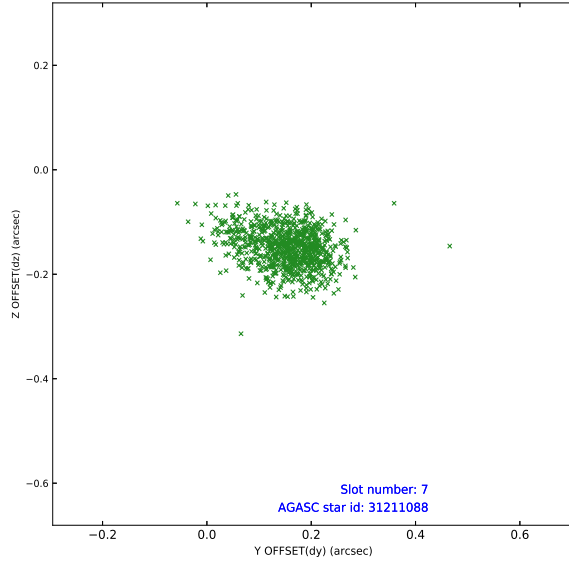
### 2.4.3 Slot 5



## 2.4.4 Slot 6

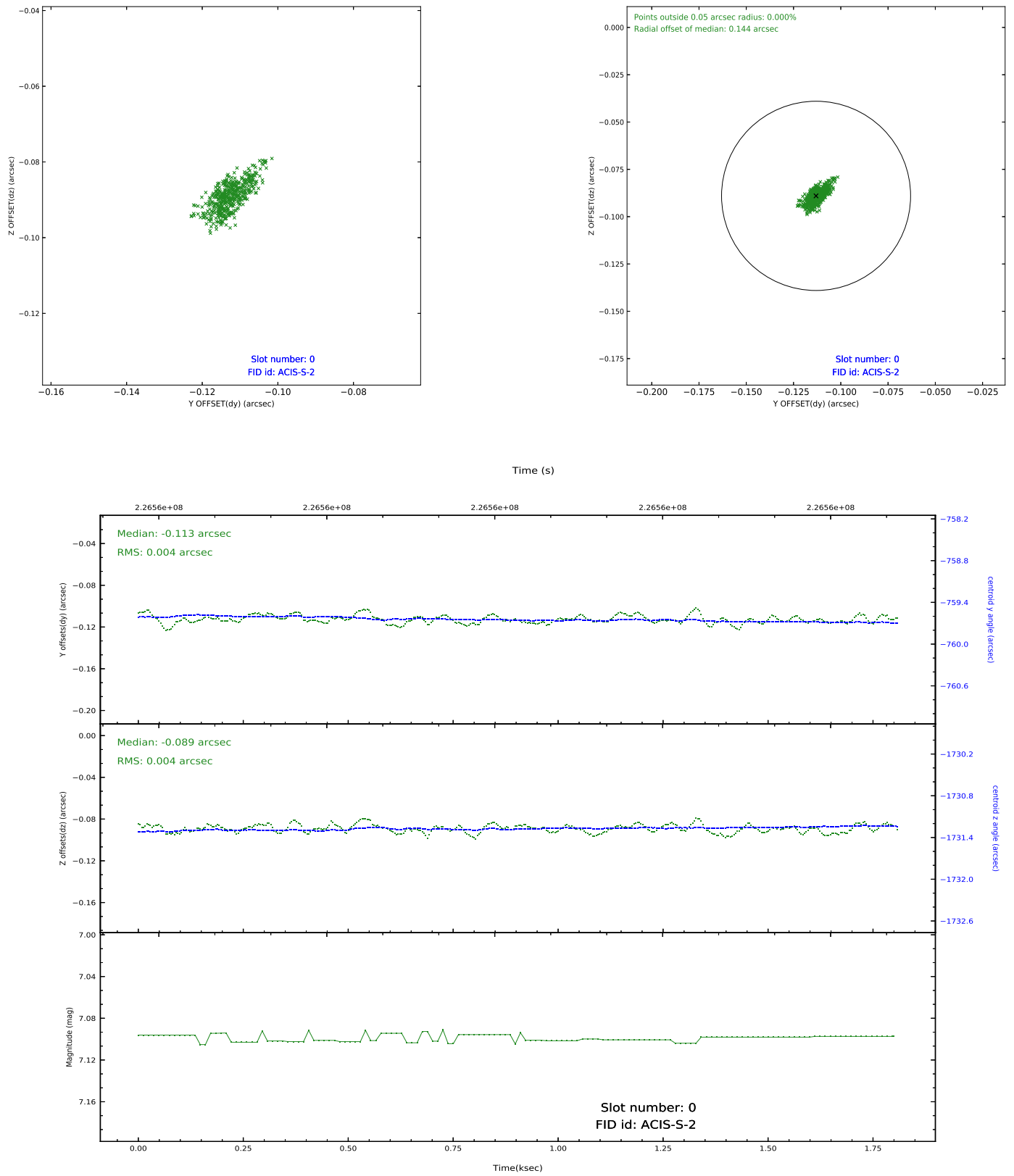


## 2.4.5 Slot 7

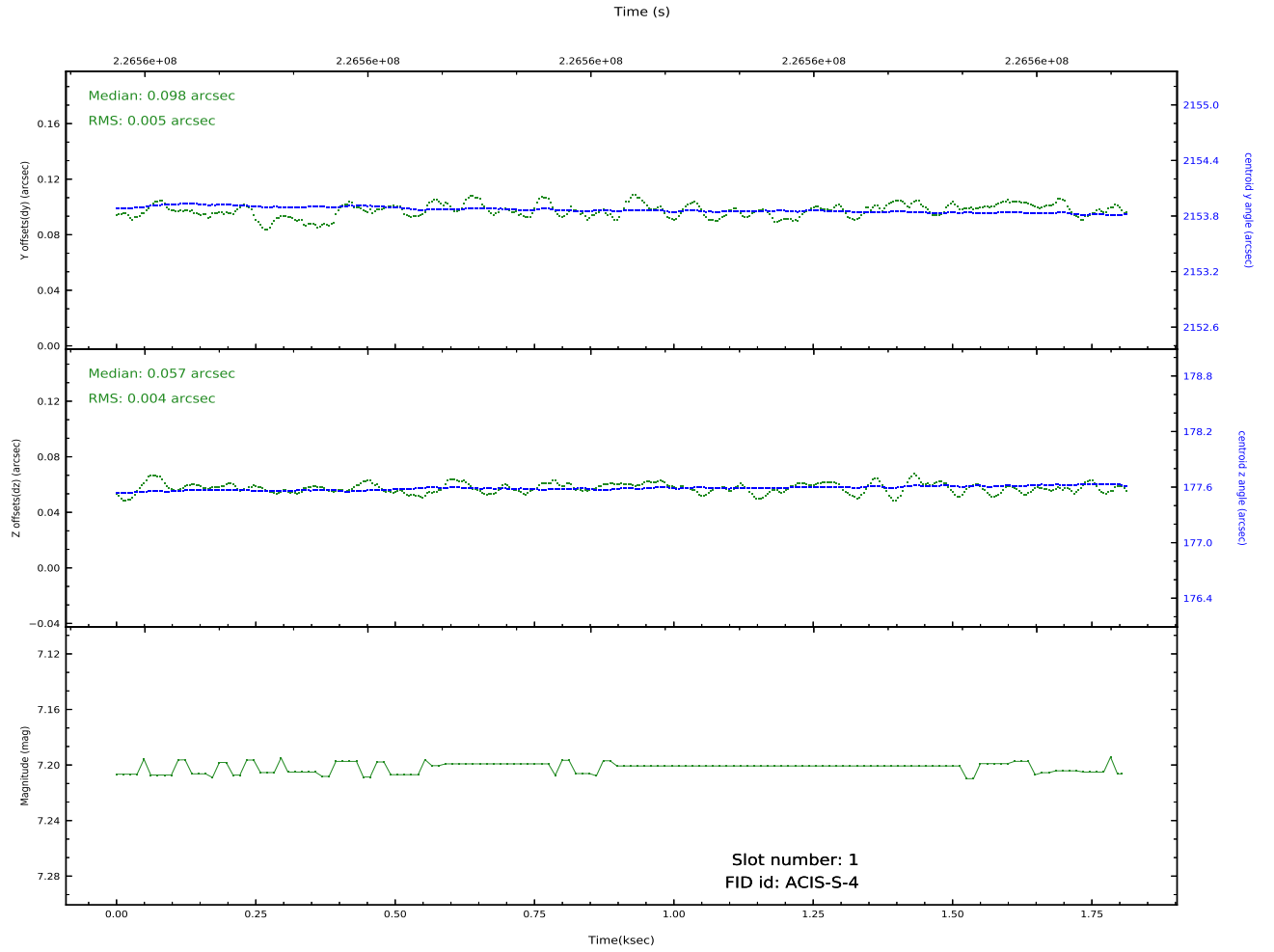
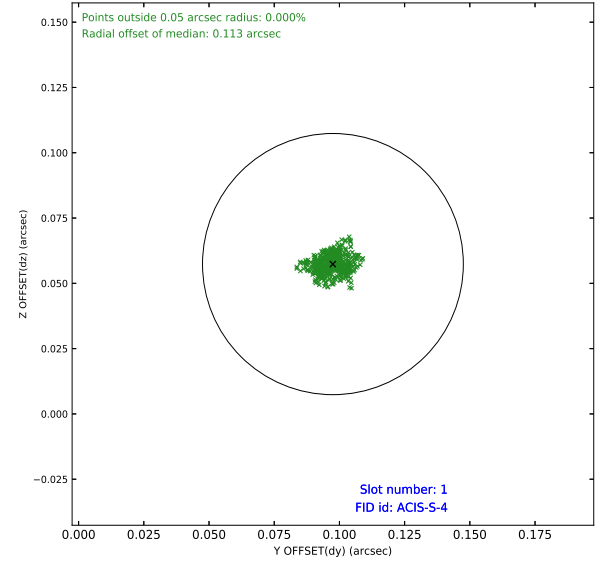
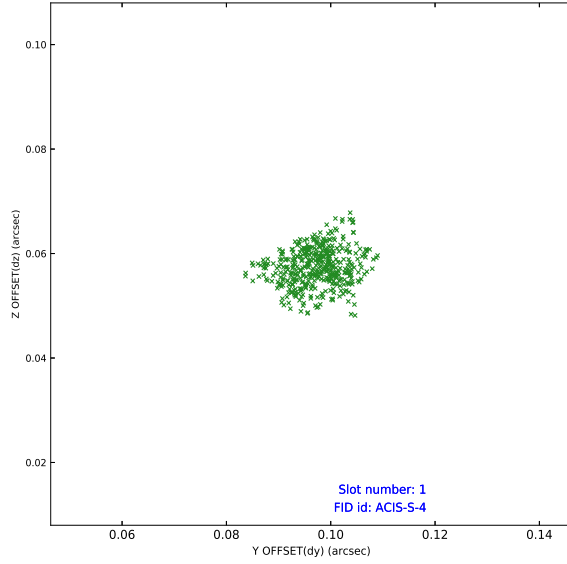


## 2.5 FID Slots

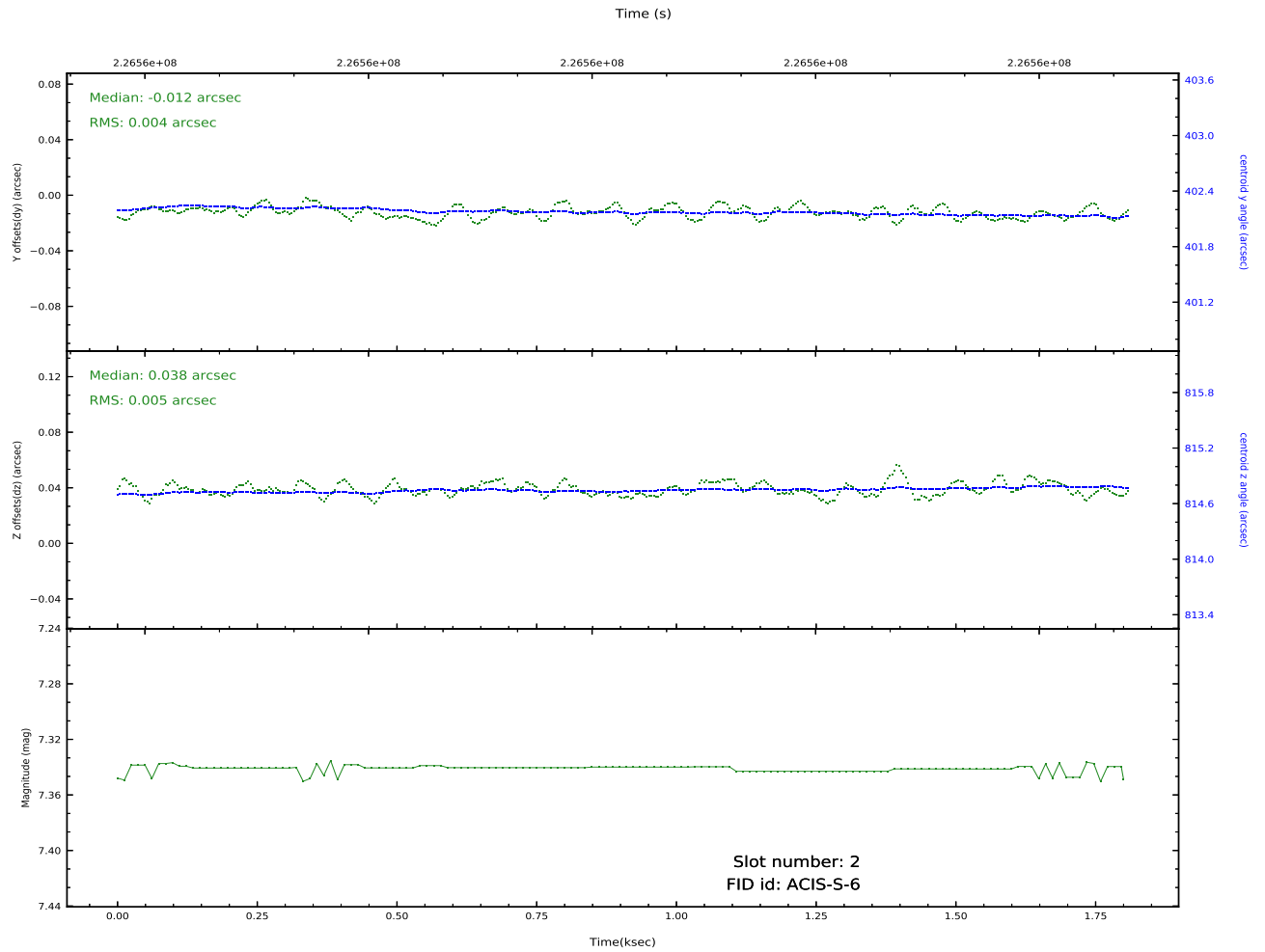
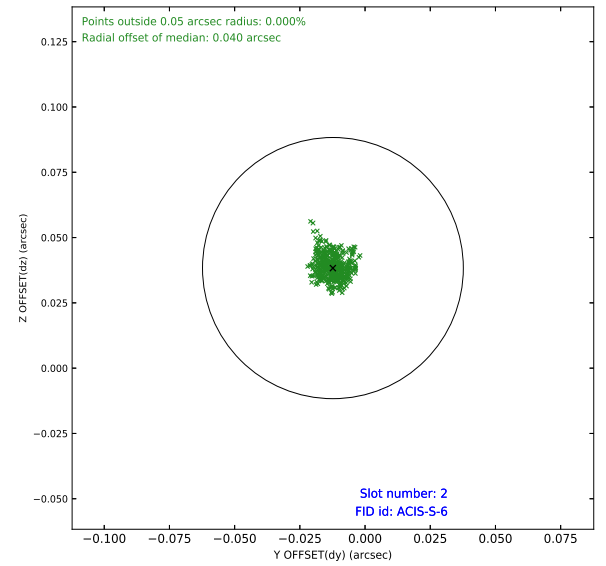
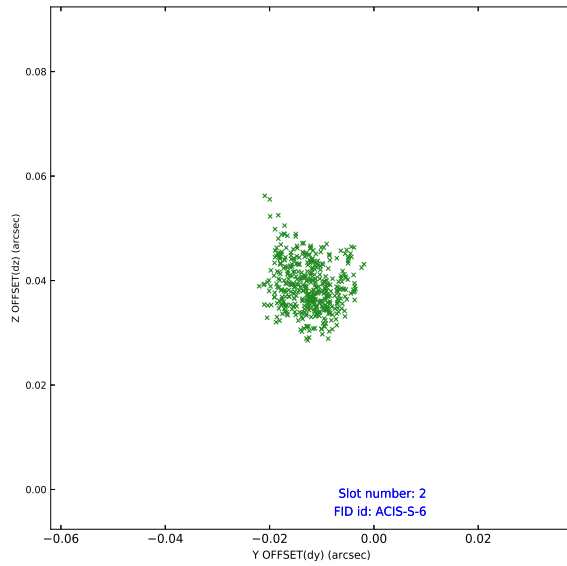
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.804799

### A.2 Comments