

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12795 - L2 Version 2  
Chandra X-Ray Center

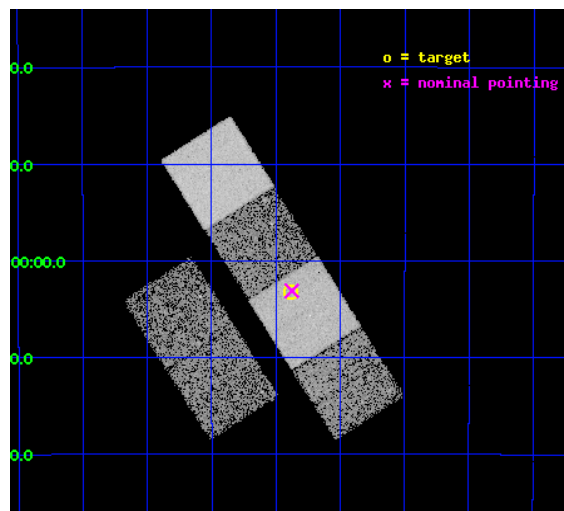
L2 Processing Date : Feb 20 2012

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# 1 Front

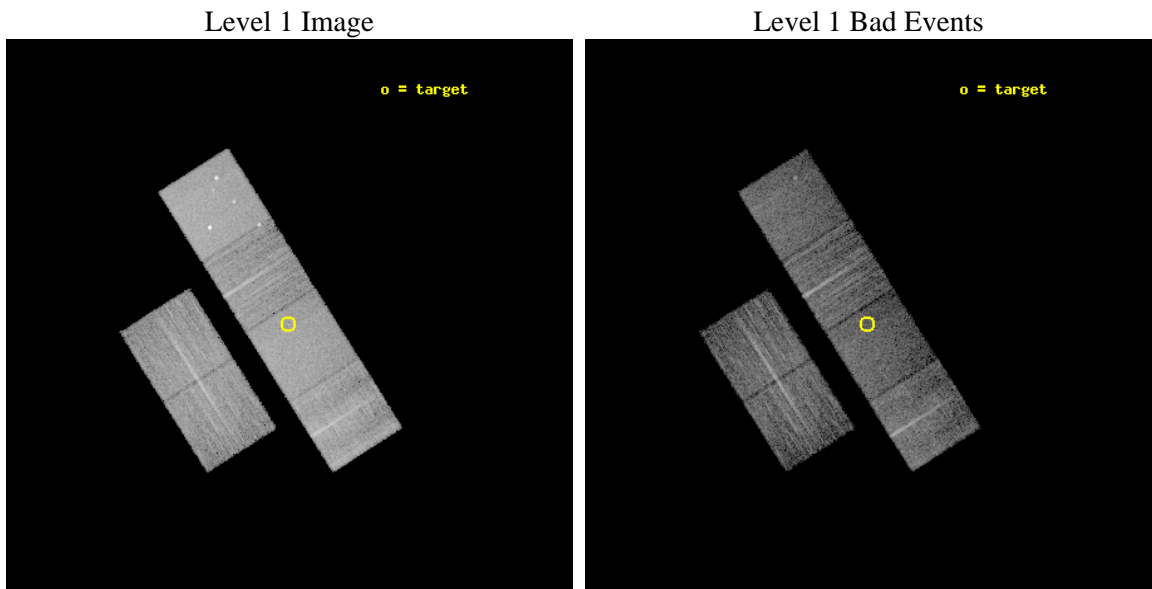
seq_num	702431	Sequence number
obs_id	12795	Observation id
title	Exploratory X-ray Monitoring of $z>4$ Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	Q 0000-263	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.845417	Observer's specified target RA [deg]
dec_targ	-26.054667	Observer's specified target Dec [deg]
ra_nom	0.84400025467978	Nominal RA [deg]
dec_nom	-26.051950604206	Nominal Dec [deg]
roll_nom	57.732665041073	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10051.199962616	Sum of GTIs [s]
livetime	9923.9256165833	Livetime [s]
ontime2	10051.199962616	Sum of GTIs [s]
ontime3	10051.199962616	Sum of GTIs [s]
ontime5	10051.199962616	Sum of GTIs [s]
ontime6	10051.199962616	Sum of GTIs [s]
ontime7	10051.199962616	Sum of GTIs [s]
ontime8	10051.199962616	Sum of GTIs [s]
l2events	106038	Number of level 2 events



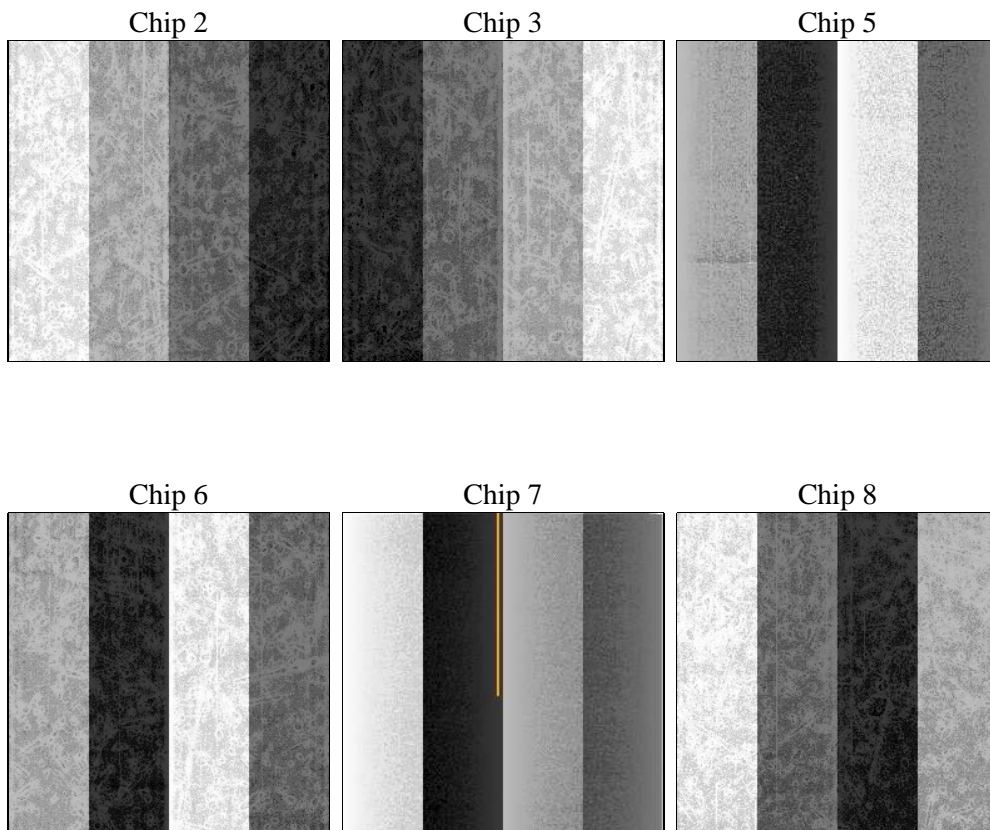
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10051.199962616	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	10051.199962616	Sum of GTIs [s]
date	2012-02-20T23:55:28	Date and time of file creation	ontime3	10051.199962616	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10051.199962616	Sum of GTIs [s]
			ontime6	10051.199962616	Sum of GTIs [s]
			ontime7	10051.199962616	Sum of GTIs [s]
			ontime8	10051.199962616	Sum of GTIs [s]
			l1events	453948	Number of level 1 events

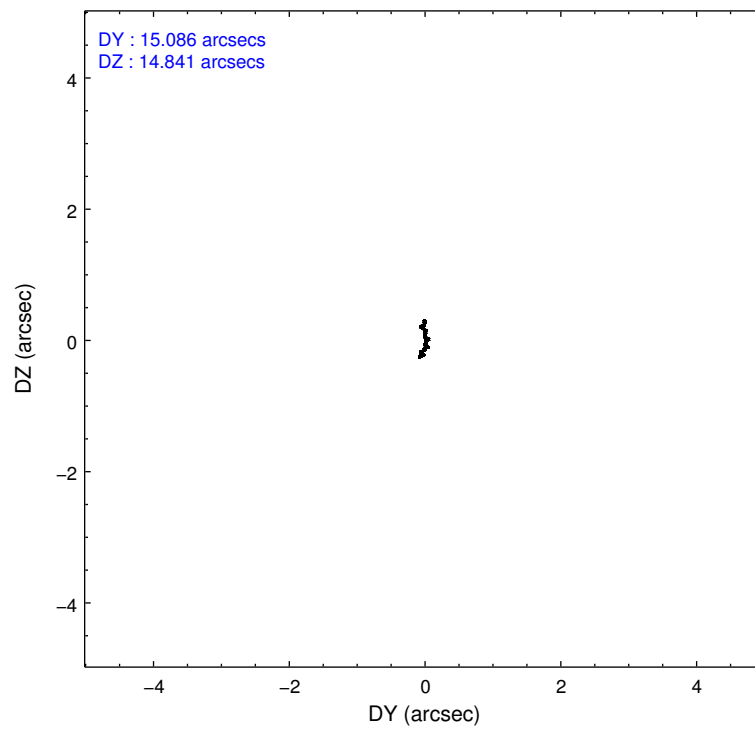
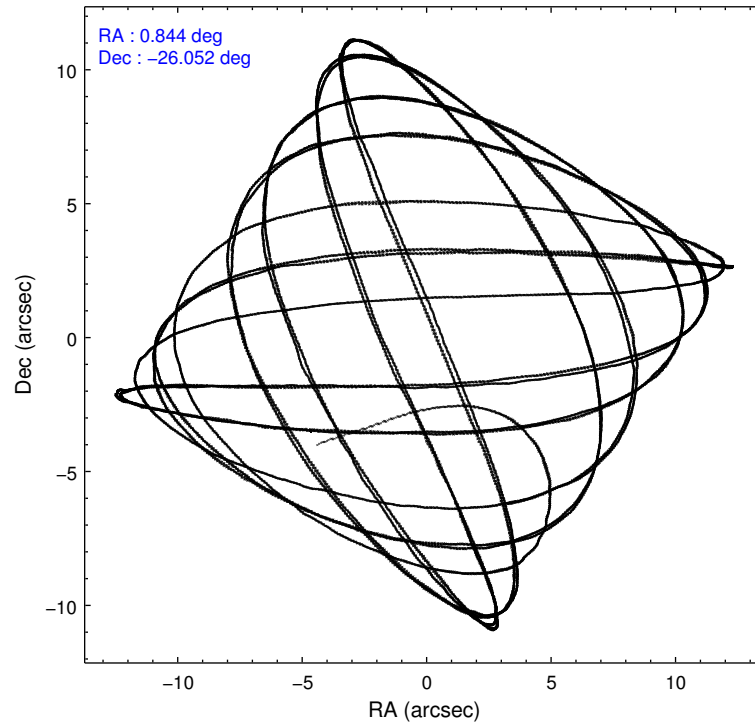
### 2.1.4 Events

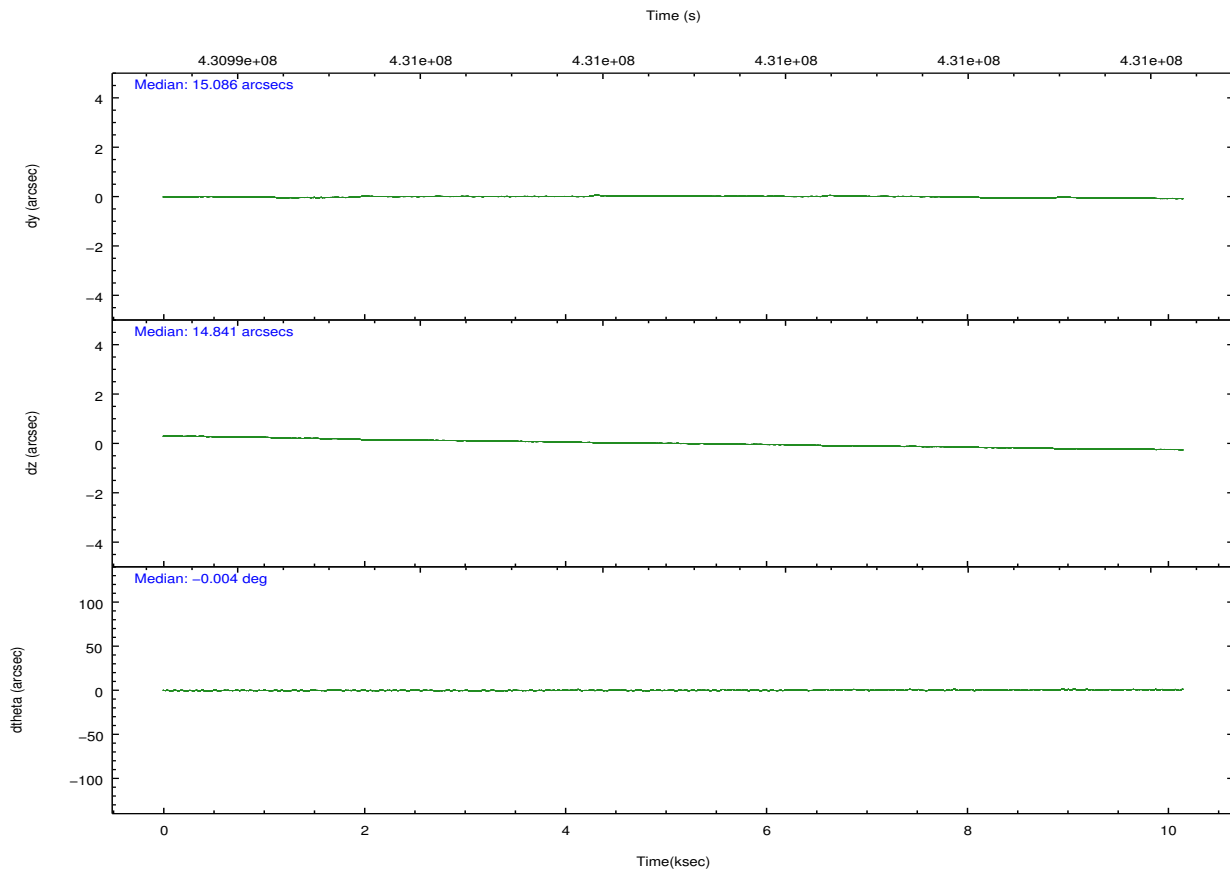
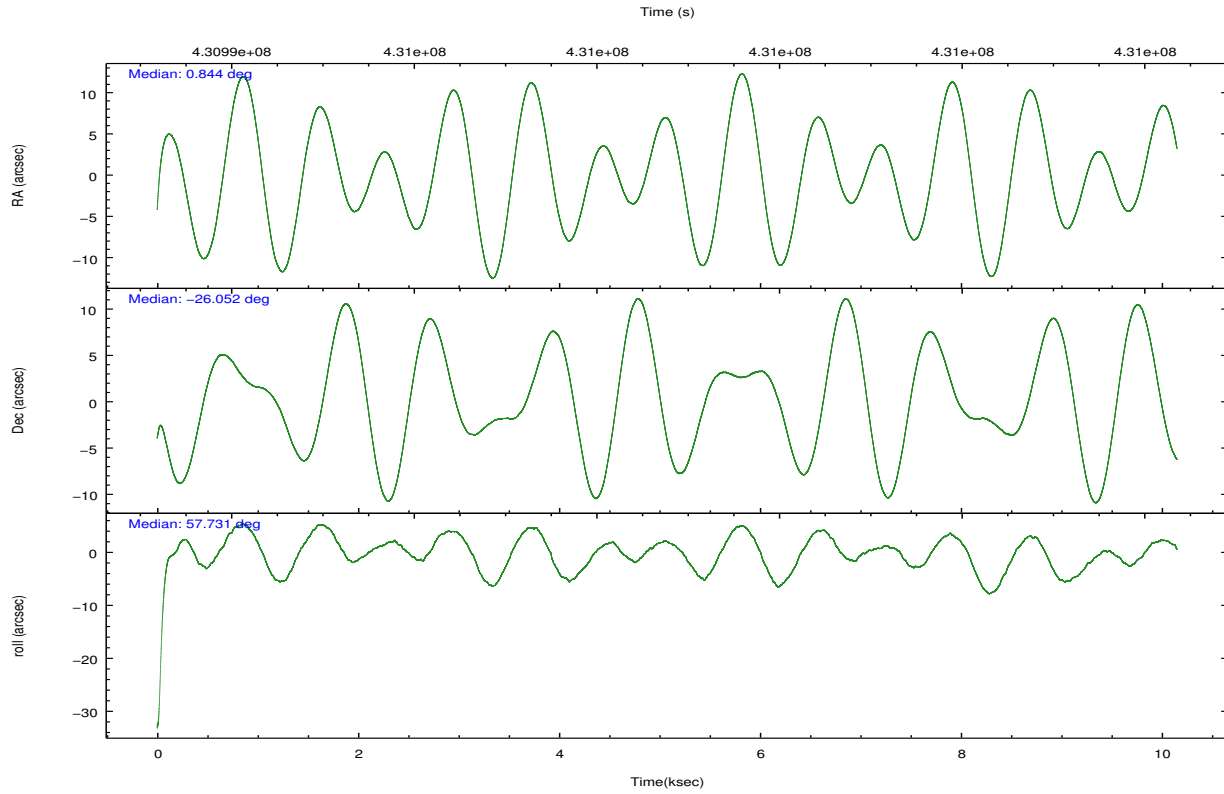
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63880	60147	102797	63135	81177	82812	grade 0 events	2477	2306	6996	2585	3328	6355
rejected events	56912	53639	51164	55688	45314	60794		3%	3%	6%	4%	4%	7%
rejected %	89%	89%	49%	88%	55%	73%	grade 1 events	31	35	184	53	106	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	1720	1428	15323	1669	7367	5284
								2%	2%	14%	2%	9%	6%
							grade 3 events	713	722	1779	769	3153	2249
								1%	1%	1%	1%	3%	2%
							grade 4 events	669	730	1681	750	3061	2084
								1%	1%	1%	1%	3%	2%
							grade 5 events	2681	3041	7715	3047	8335	4507
								4%	5%	7%	4%	10%	5%
							grade 6 events	1394	1332	25899	1679	18976	6052
								2%	2%	25%	2%	23%	7%
							grade 7 events	54195	50553	43220	52583	36851	56214
								84%	84%	42%	83%	45%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	0.843194	0.8440002546797771	CCD I2 on	O2	Y
[deg] Pointing Dec	-26.079258	-26.051950604206	CCD I3 on	O1	Y
[deg] Pointing Roll	57.575719	57.73266504107252	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	430993841.184000	430992770.02948	CCD S5 on	N	N
Observation start date	2011-08-29T08:29:35	2011-08-29T08:12:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	431003841.184000	431004565.7301	On-chip summing requested	N	N
Observation end date	2011-08-29T11:16:15	2011-08-29T11:29:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



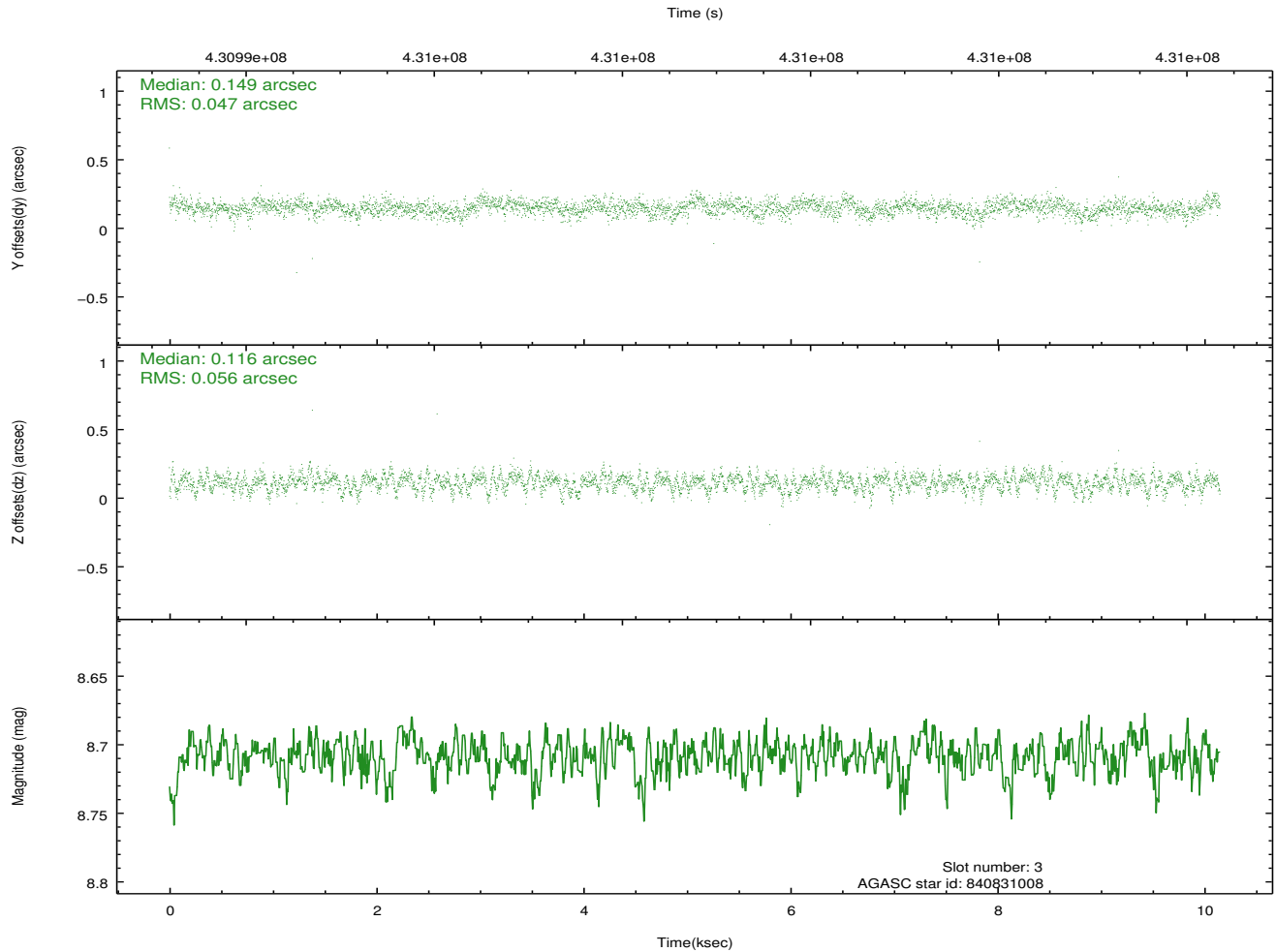
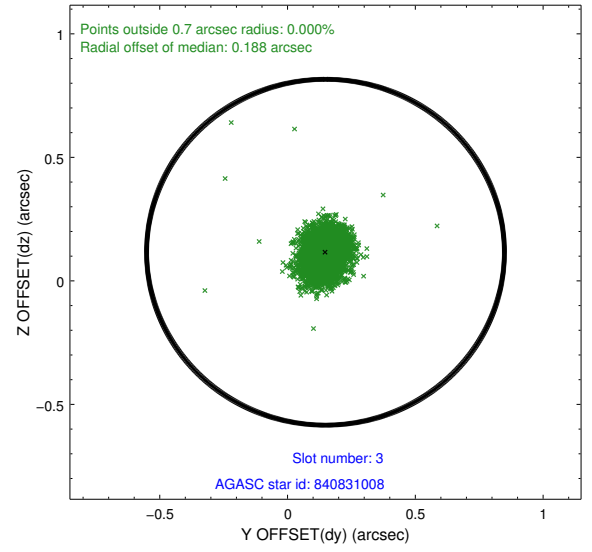
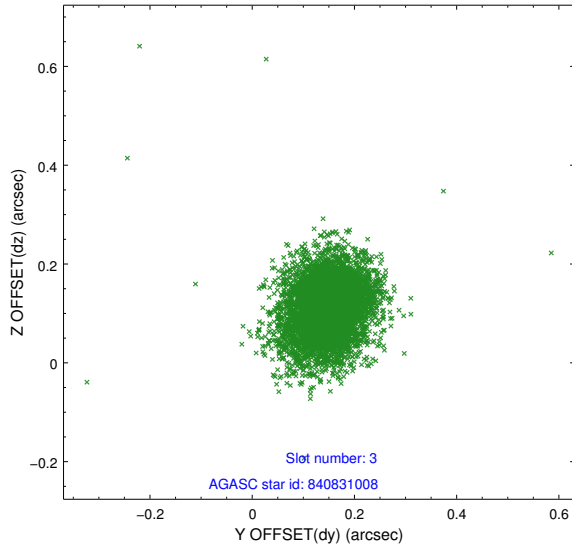


### Slot Statistics

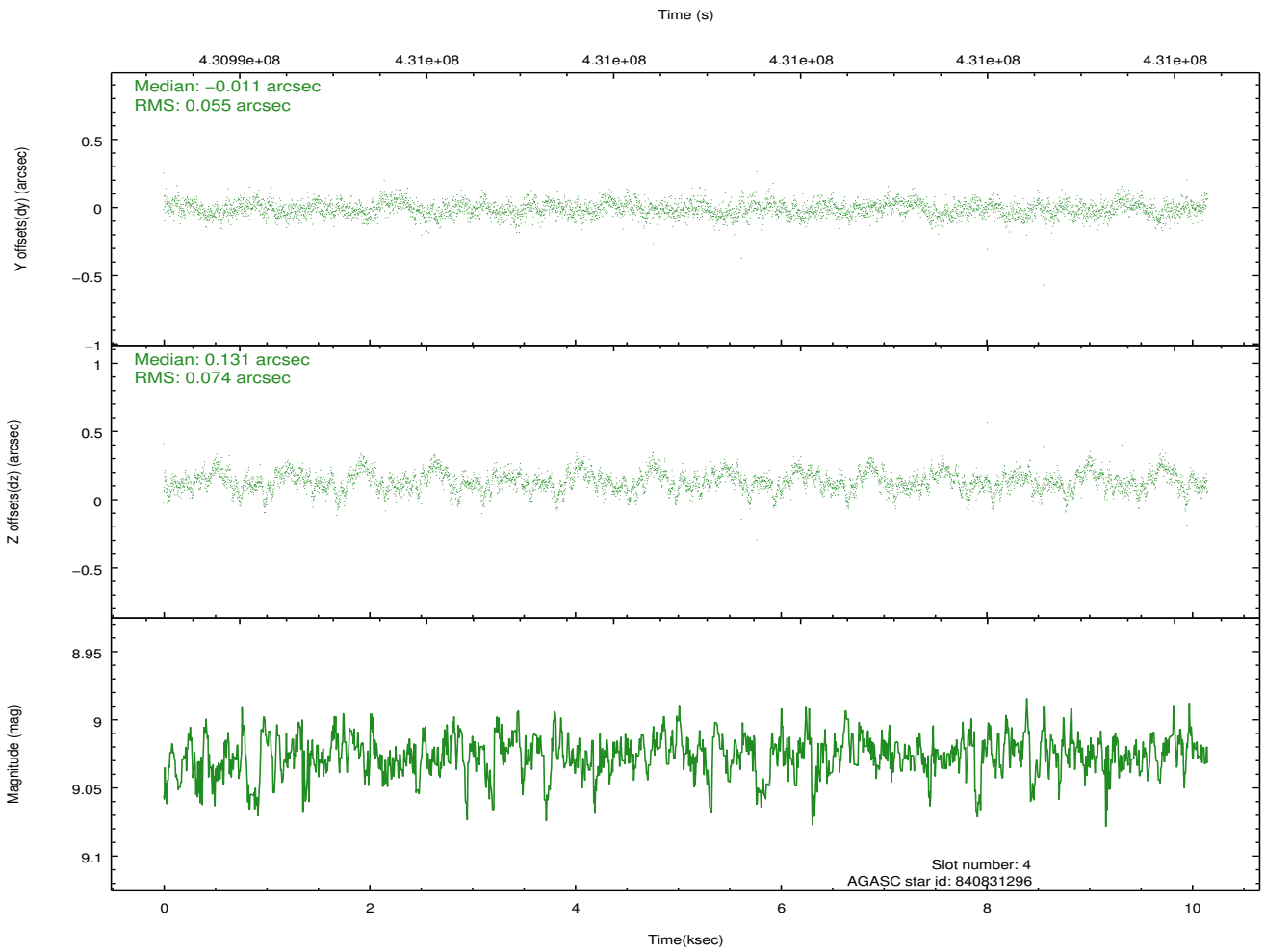
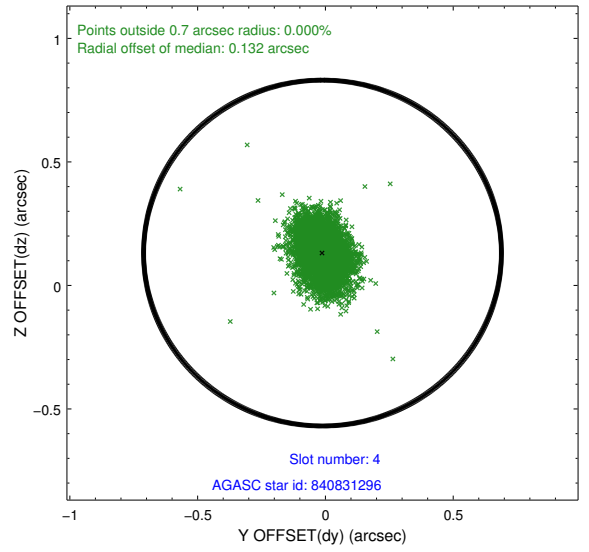
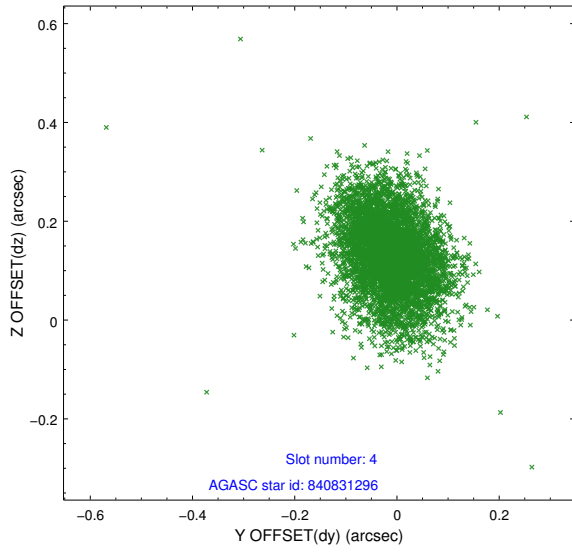
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	2476	-0.113	-0.020	0.007	0.013	0.000000	0.000000	-768.16	-1736.24
1	FID	ACIS-S-4	7.02	2476	0.247	0.060	0.005	0.010	0.000000	0.000000	2145.24	171.78
2	FID	ACIS-S-5	7.05	2475	-0.165	-0.031	0.007	0.012	0.000000	0.000000	-1820.39	165.96
3	GUIDE	840831008	8.71	4950	0.149	0.116	0.075	0.124	0.855542	-26.415181	-999.00	-681.76
4	GUIDE	840831296	9.03	4951	-0.011	0.131	0.096	0.160	1.032971	-25.892665	896.48	-160.05
5	GUIDE	840833168	9.28	4951	0.173	0.004	0.102	0.166	0.400325	-26.469934	-1953.96	449.10
6	GUIDE	840833360	9.17	4931	-0.100	-0.032	0.127	0.200	0.455843	-25.798534	173.83	1599.99
7	GUIDE	840832352	8.22	4948	-0.206	-0.226	0.061	0.102	0.775324	-25.261110	2367.34	1766.30

## 2.4 Star Slots

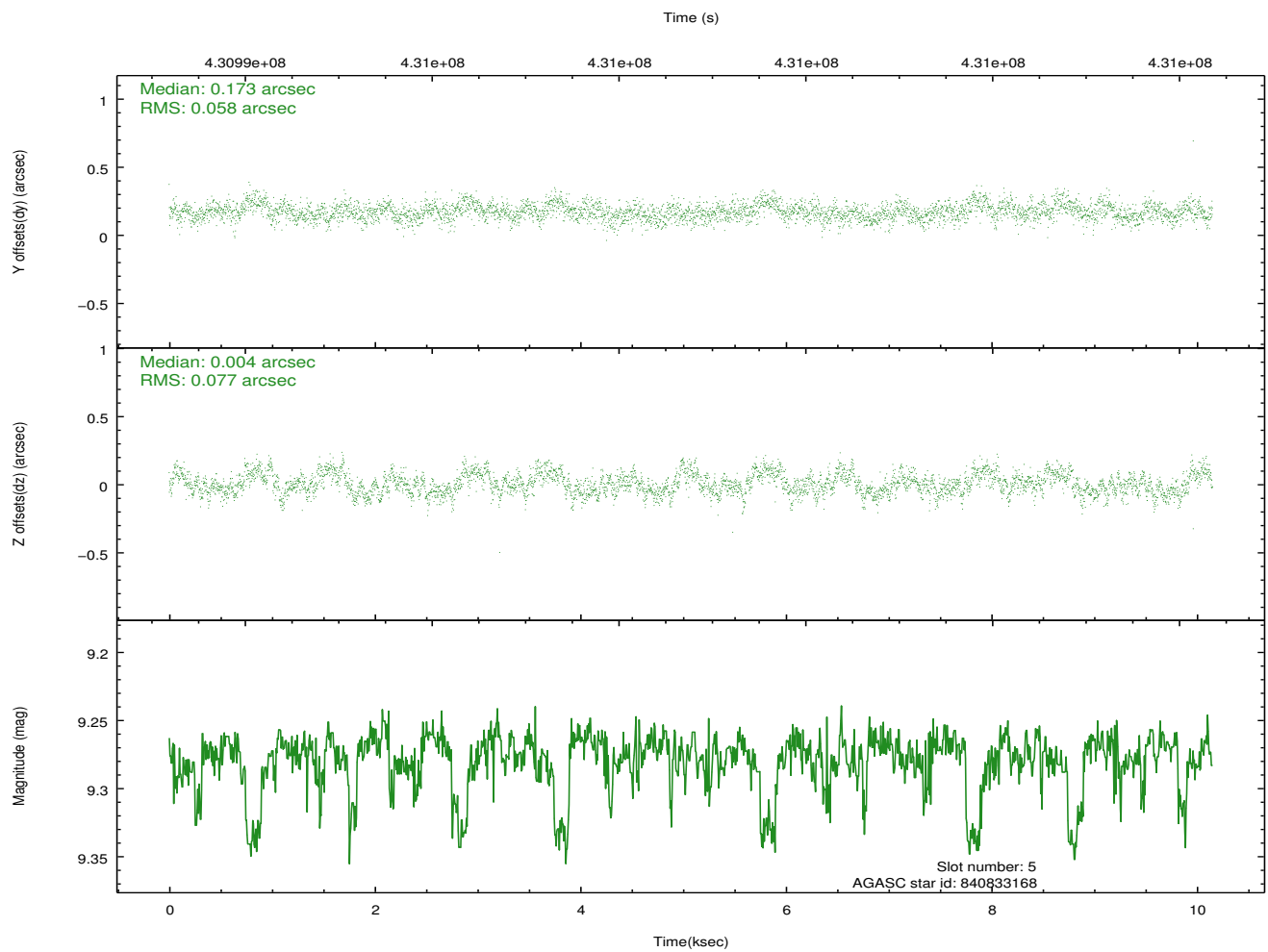
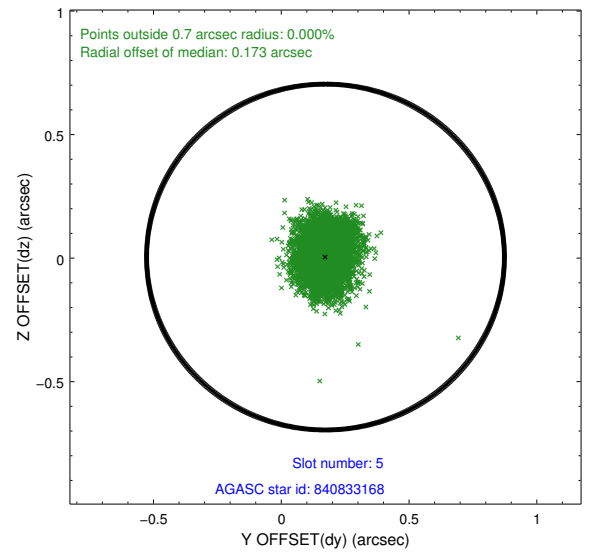
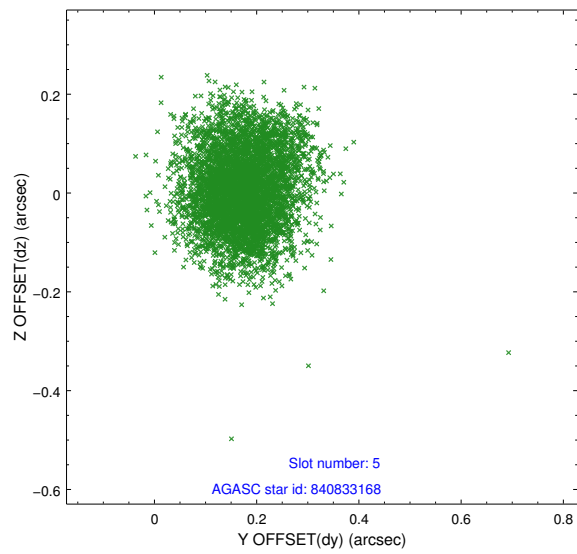
### 2.4.1 Slot 3



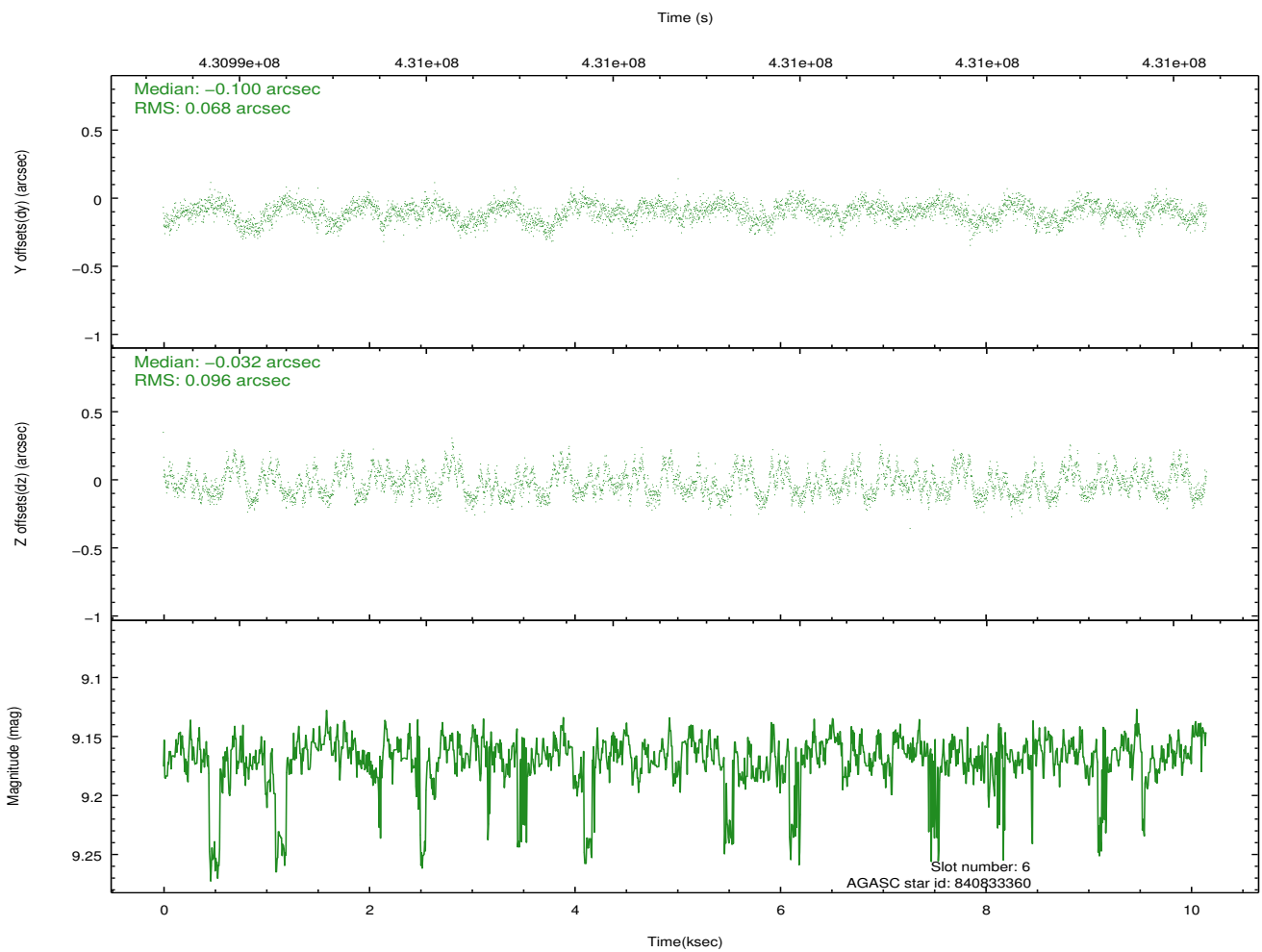
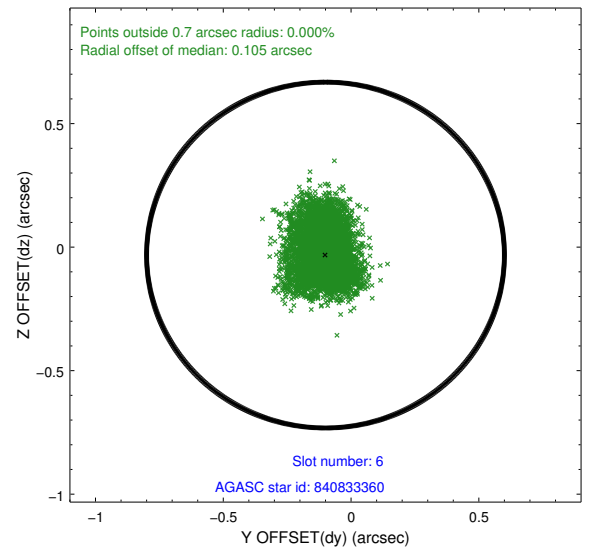
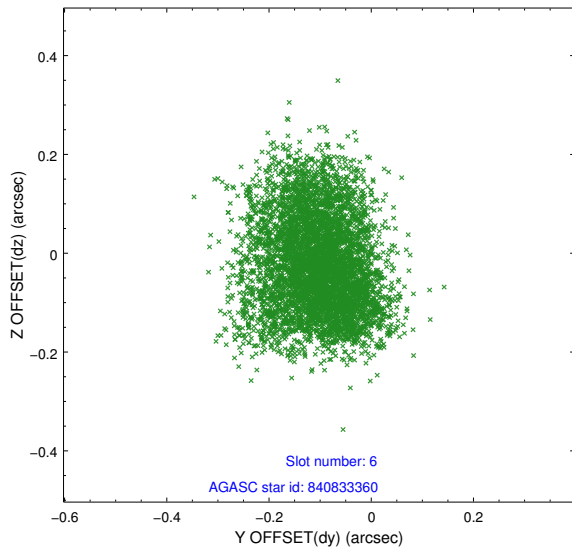
### 2.4.2 Slot 4



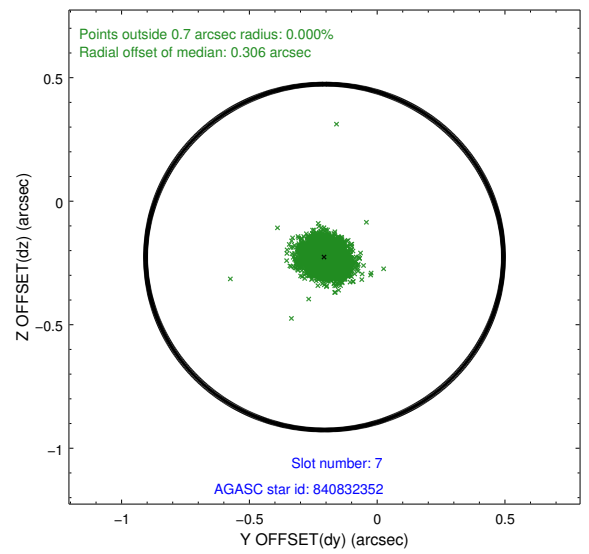
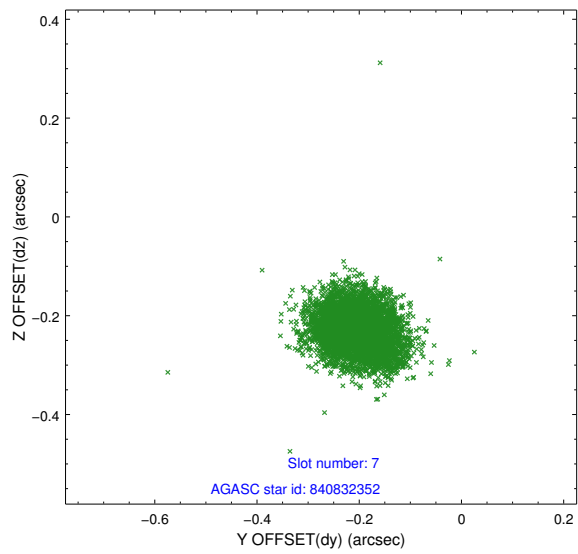
### 2.4.3 Slot 5



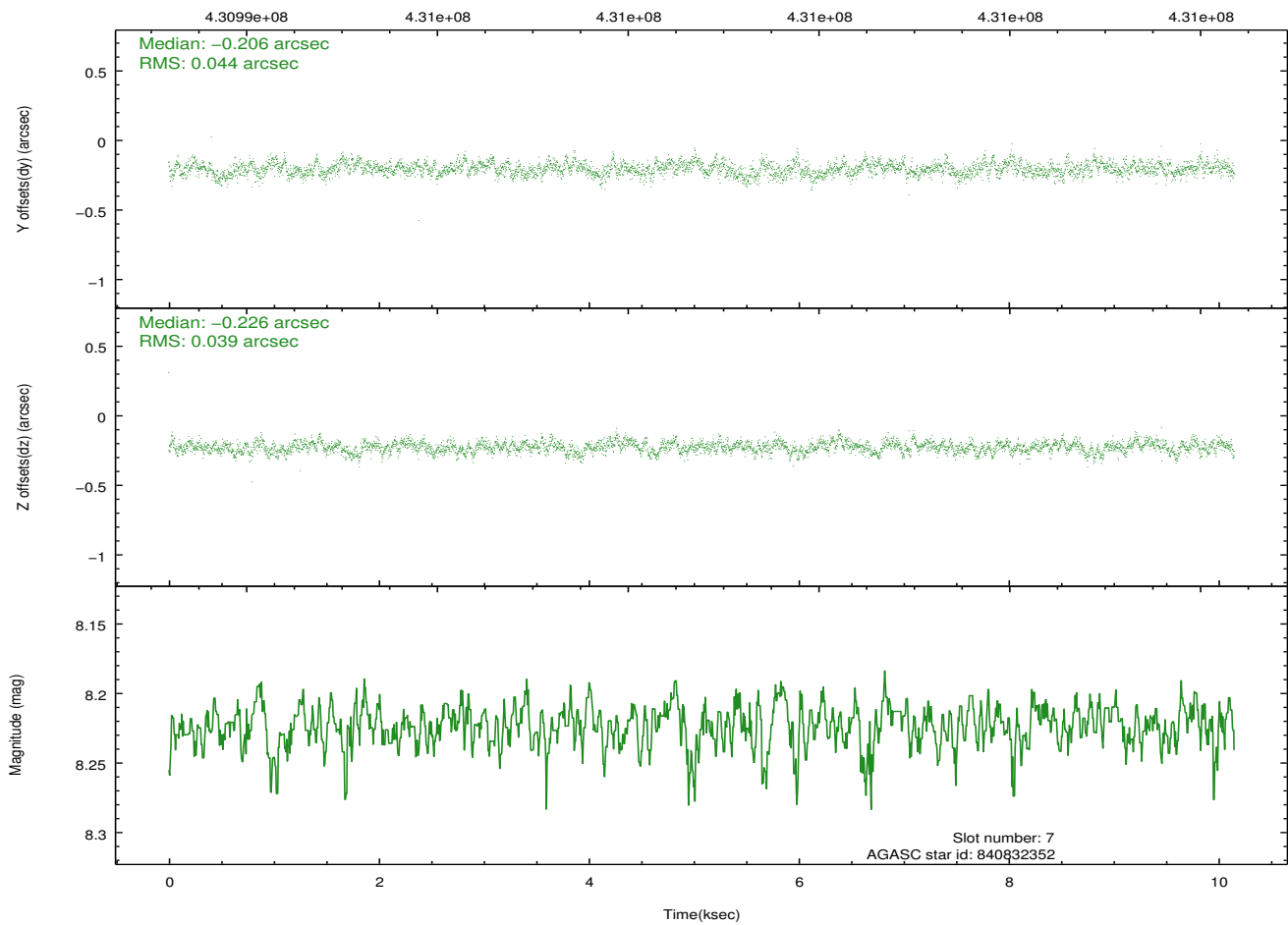
## 2.4.4 Slot 6



## 2.4.5 Slot 7

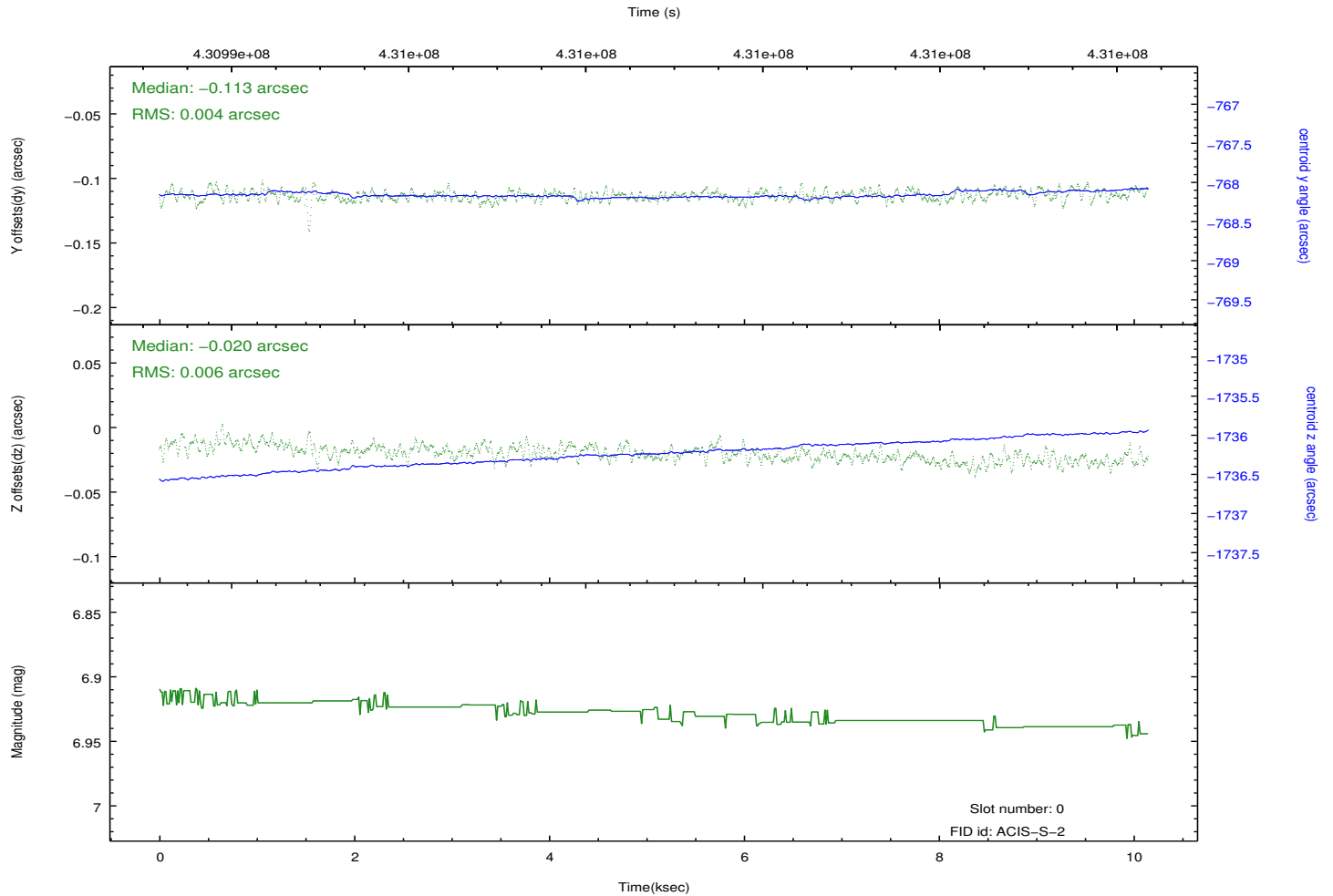
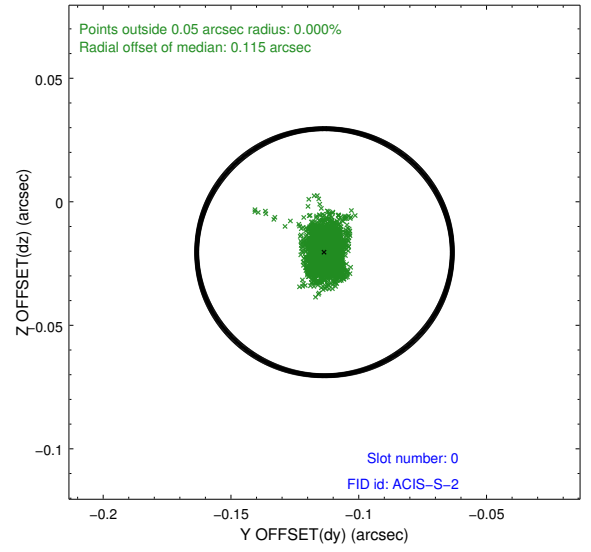
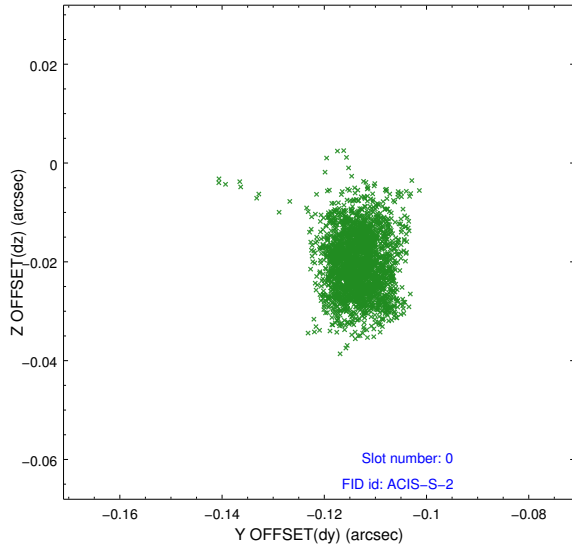


Time (s)

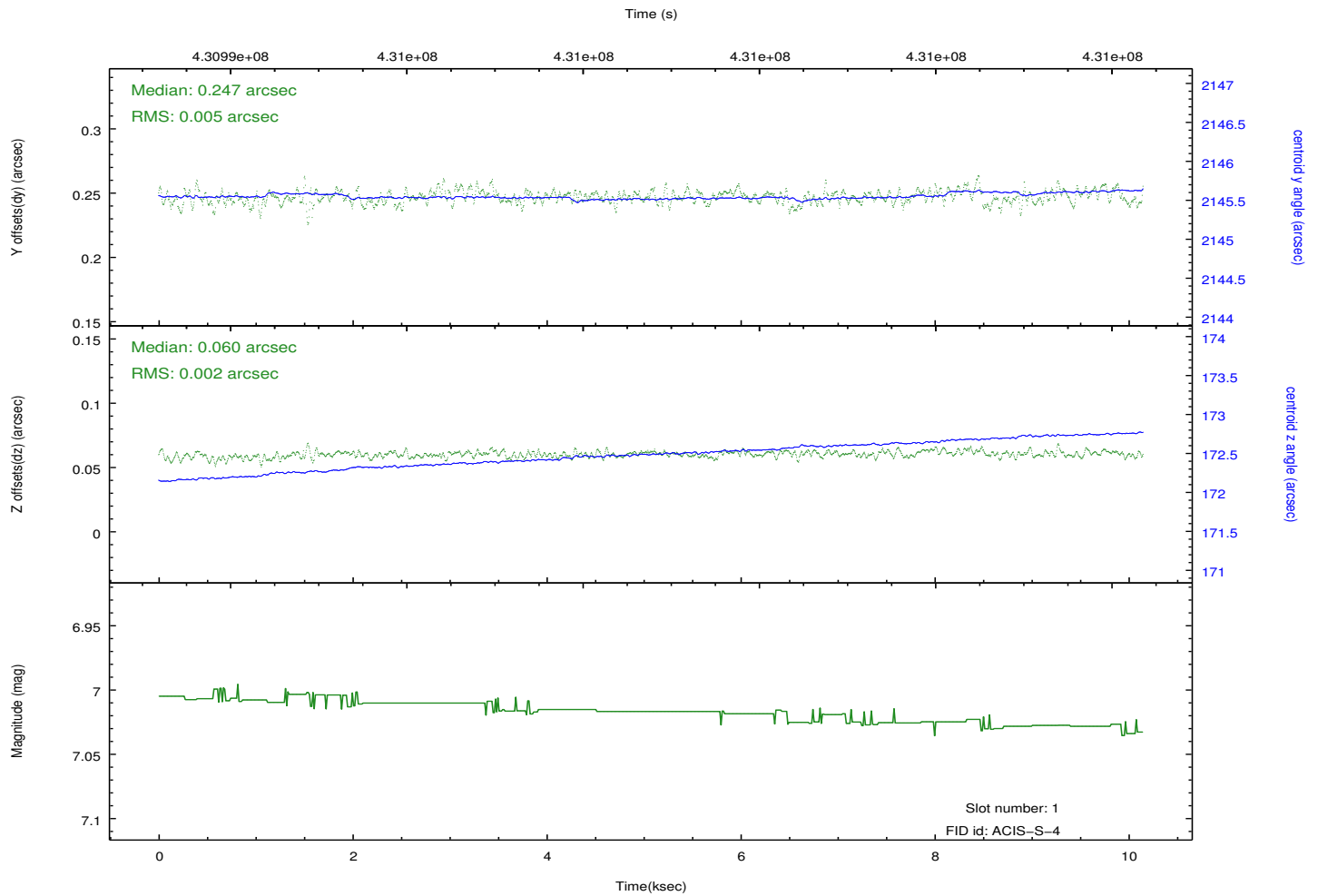
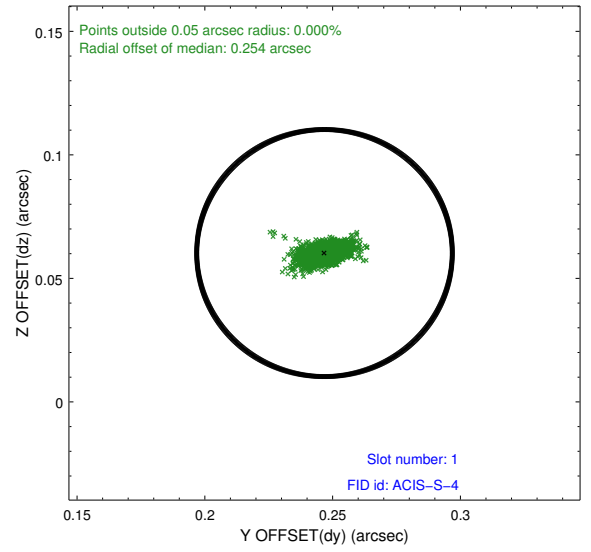
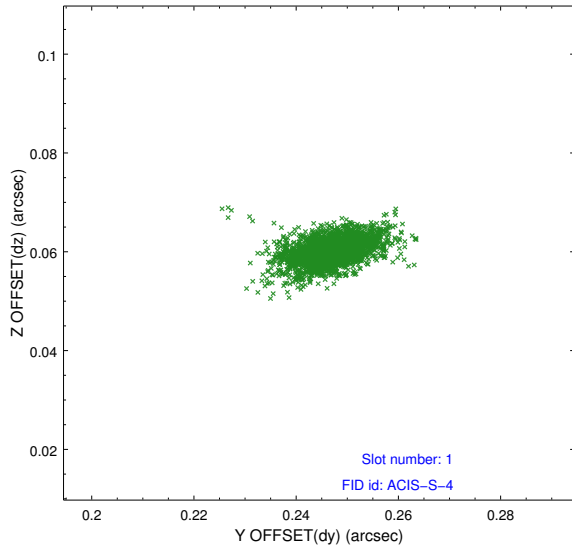


## 2.5 FID Slots

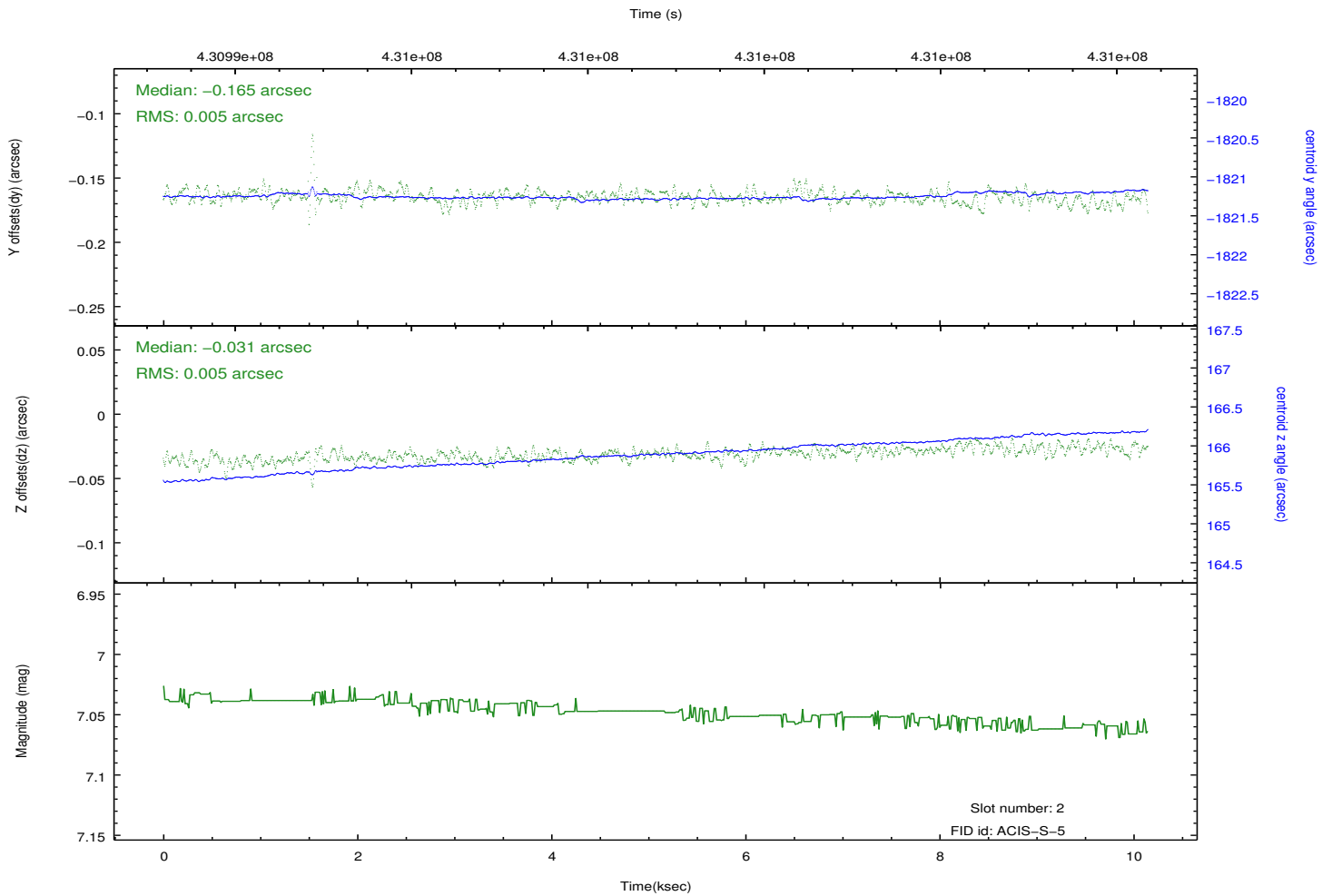
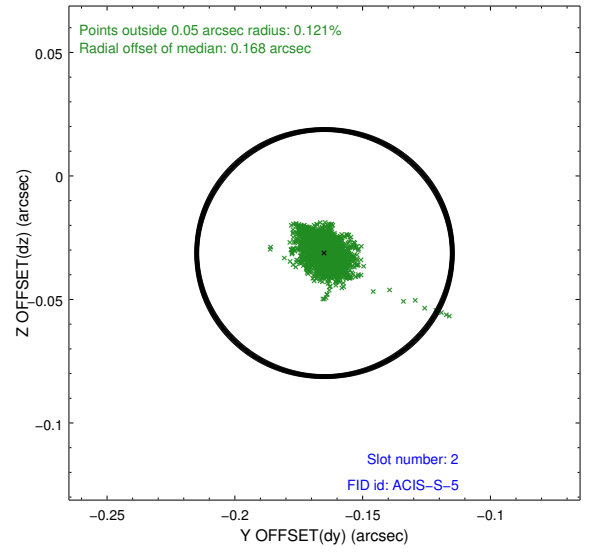
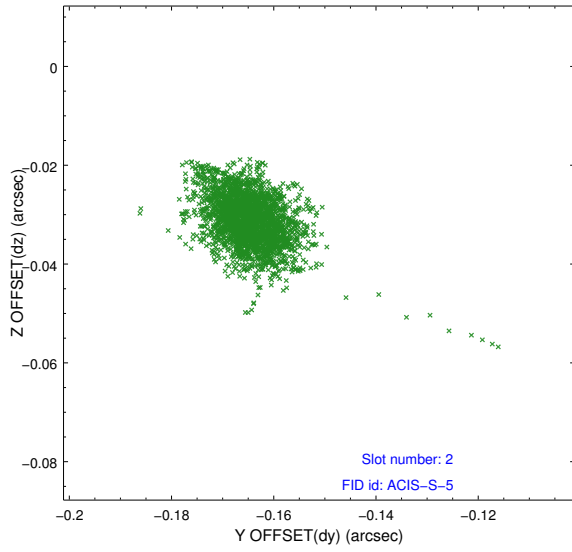
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.051199962616

## A.2 Comments