

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9859 - L2 Version 2  
Chandra X-Ray Center

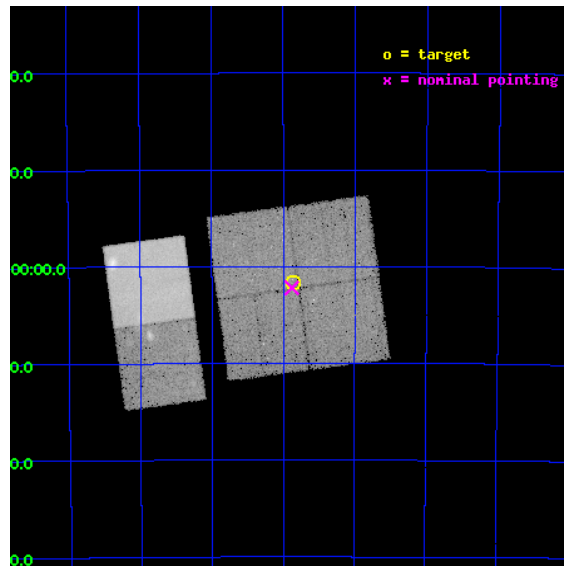
L2 Processing Date : May 15 2012

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# 1 Front

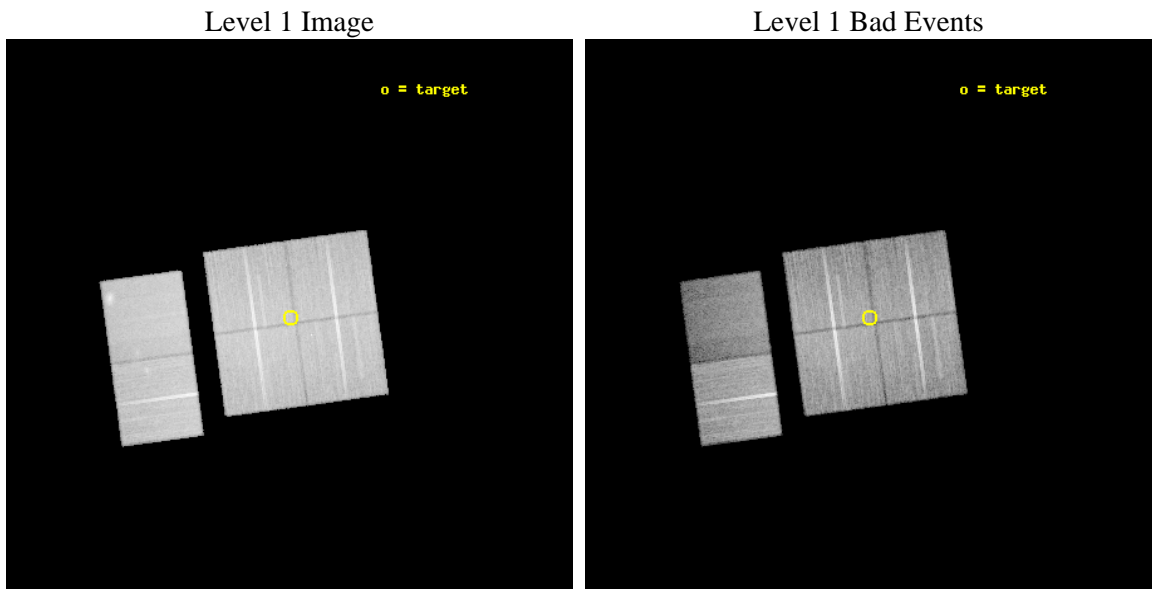
seq_num	900835	Sequence number
obs_id	9859	Observation id
title	The Great Nebula in Carina: Protoplanetary Disks to Starburst Galaxies	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	Carina Superbubble Ptg 3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.467083	Observer's specified target RA [deg]
dec_targ	-60.028806	Observer's specified target Dec [deg]
ra_nom	160.46976124032	Nominal RA [deg]
dec_nom	-60.036779326452	Nominal Dec [deg]
roll_nom	262.21100741304	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28543.999893725	Sum of GTIs [s]
livetime	28182.558579937	Livetime [s]
ontime0	28543.999893725	Sum of GTIs [s]
ontime1	28534.276962638	Sum of GTIs [s]
ontime2	28537.517893195	Sum of GTIs [s]
ontime3	28543.999893725	Sum of GTIs [s]
ontime6	28543.999893725	Sum of GTIs [s]
ontime7	28543.999893725	Sum of GTIs [s]
l2events	228301	Number of level 2 events



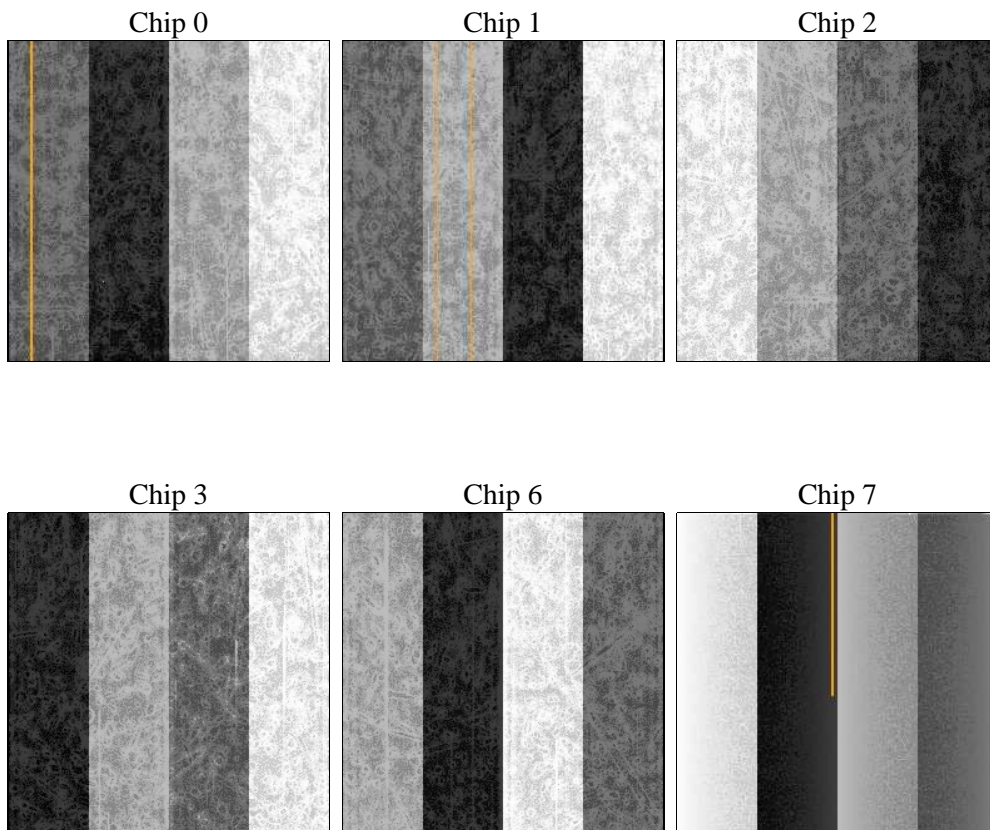
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	28543.999893725	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	28543.999893725	Sum of GTIs [s]
date	2012-05-15T16:18:32	Date and time of file creation	ontime1	28534.276962638	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28537.517893195	Sum of GTIs [s]
			ontime3	28543.999893725	Sum of GTIs [s]
			ontime6	28543.999893725	Sum of GTIs [s]
			ontime7	28543.999893725	Sum of GTIs [s]
			l1events	1267930	Number of level 1 events

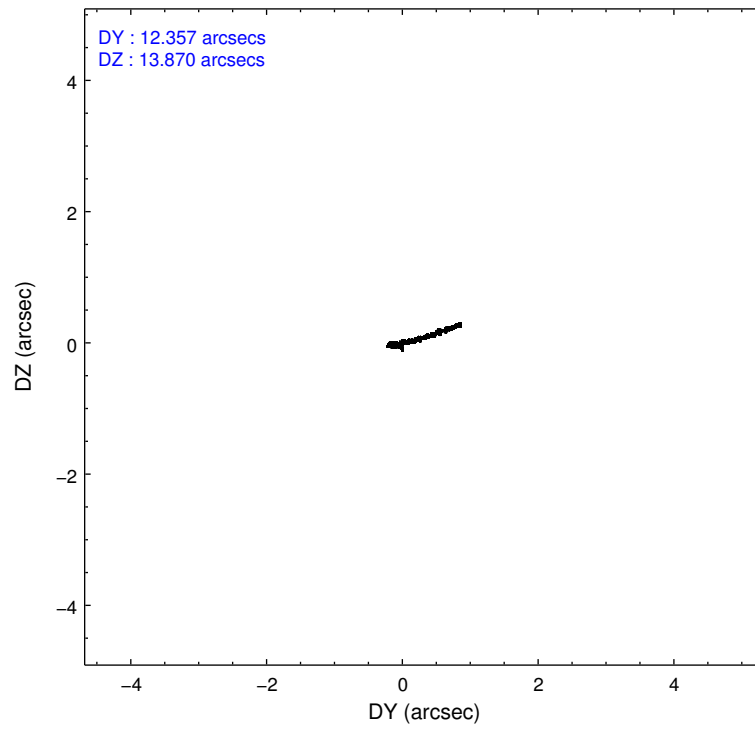
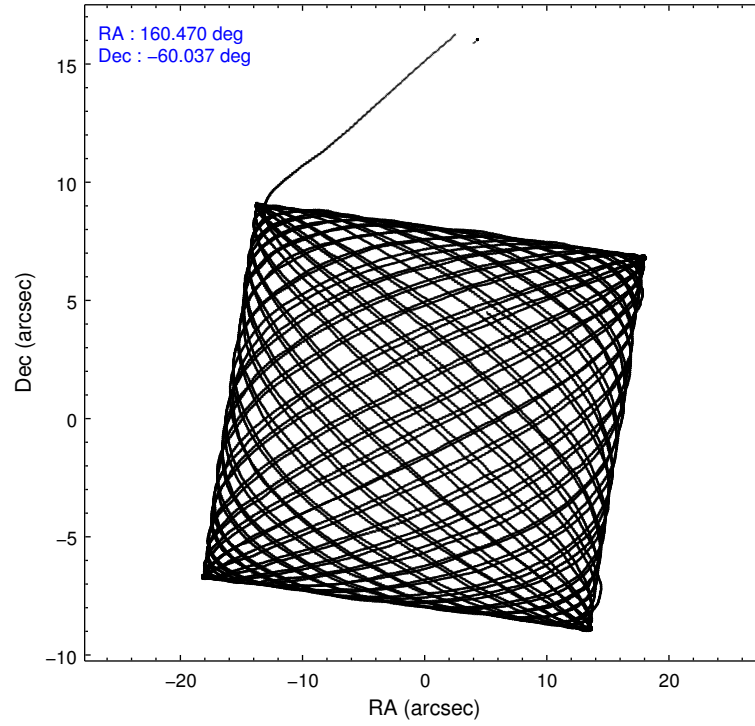
### 2.1.4 Events

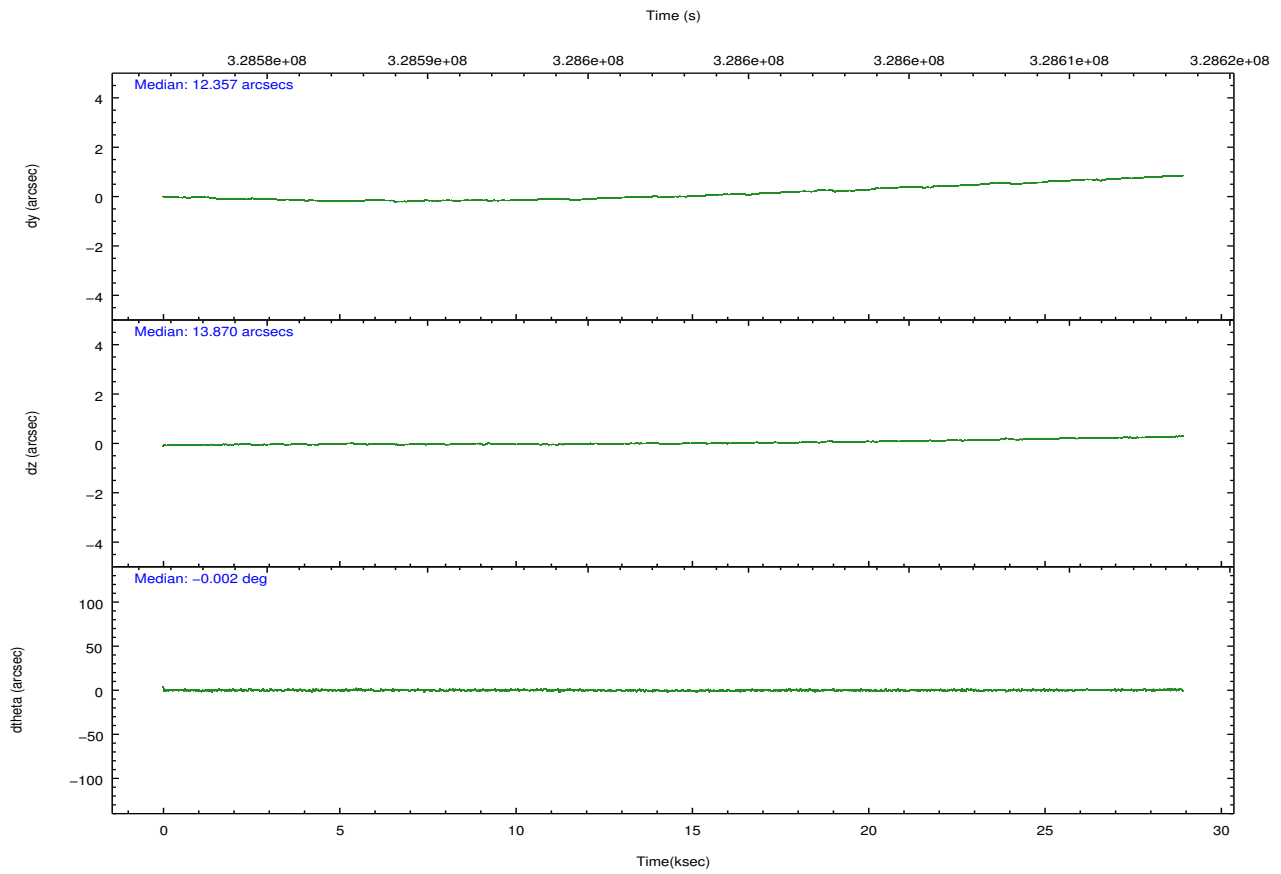
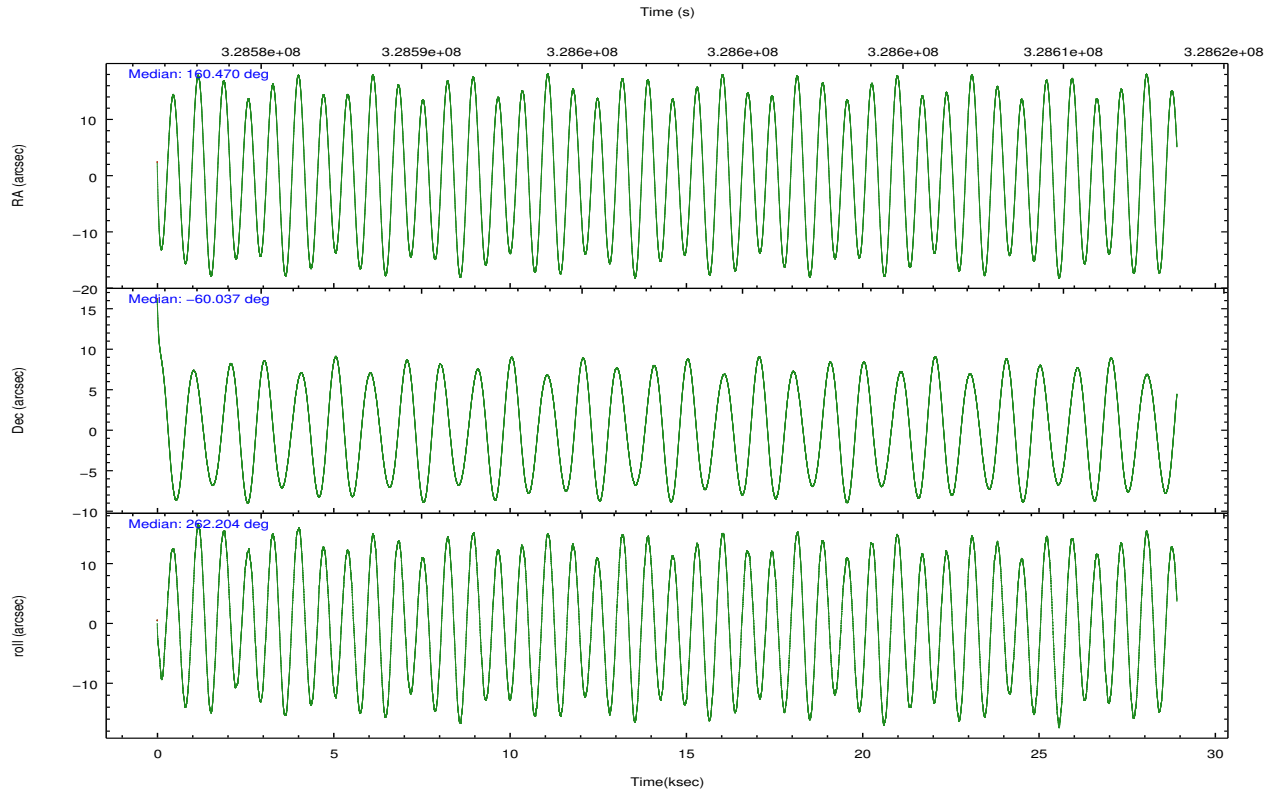
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	202977	195505	220306	208074	220763	220305	grade 0 events	12413	12126	11917	13972	13214	16629
rejected events	176777	168877	195302	180959	193257	101544		6%	6%	5%	6%	5%	7%
rejected %	87%	86%	88%	86%	87%	46%	grade 1 events	137	120	147	152	132	298
								0%	0%	0%	0%	0%	0%
							grade 2 events	5433	5249	5189	4674	5189	26448
								2%	2%	2%	2%	2%	12%
							grade 3 events	2400	2588	2189	2340	2372	11707
								1%	1%	0%	1%	1%	5%
							grade 4 events	2152	2433	2161	2233	2364	11415
								1%	1%	0%	1%	1%	5%
							grade 5 events	6153	6906	5617	7384	7417	21899
								3%	3%	2%	3%	3%	9%
							grade 6 events	3808	4236	3551	3899	4372	52575
								1%	2%	1%	1%	1%	23%
							grade 7 events	170481	161847	189535	173420	185703	79334
								83%	82%	86%	83%	84%	36%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	160.448759	160.4697612403171	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.011372	-60.03677932645151	CCD I3 on	Y	Y
[deg] Pointing Roll	261.984128	262.2110074130409	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	328583611.184000	328582488.82483	CCD S5 on	N	N
Observation start date	2008-05-31T01:12:26	2008-05-31T00:54:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	328612111.184000	328612819.60132	On-chip summing requested	N	N
Observation end date	2008-05-31T09:07:26	2008-05-31T09:20:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



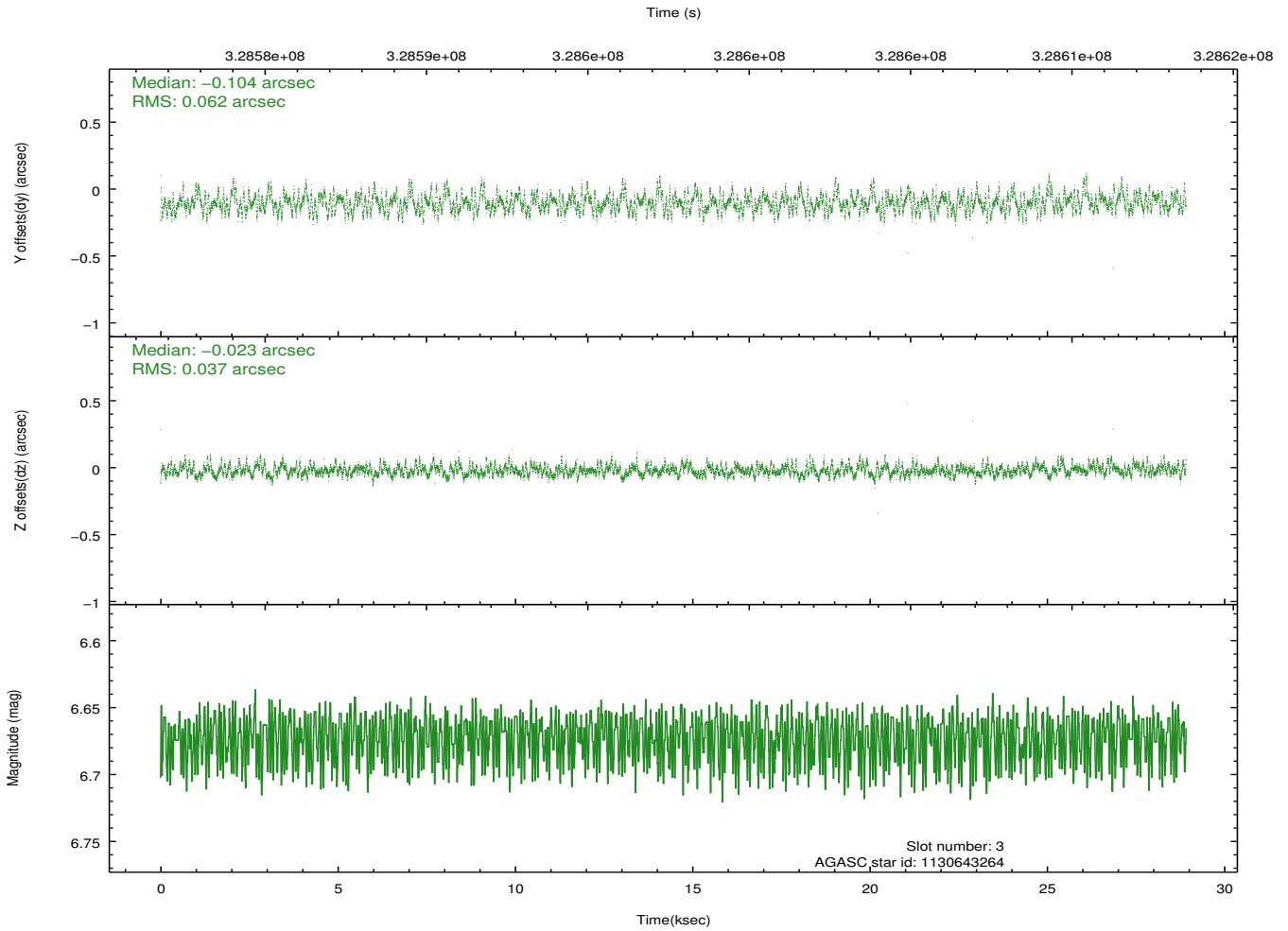
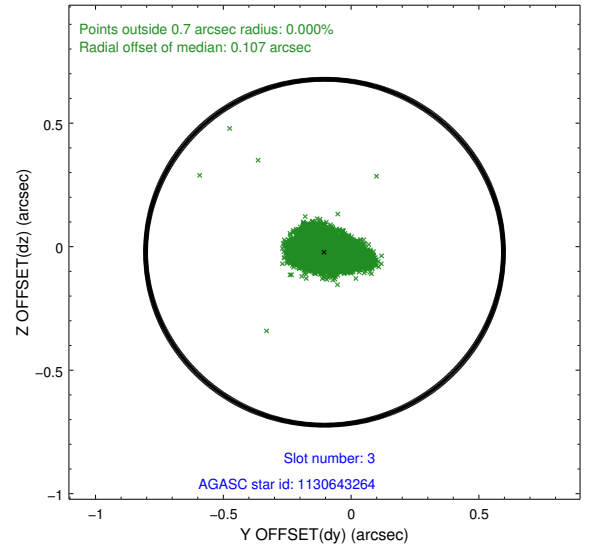
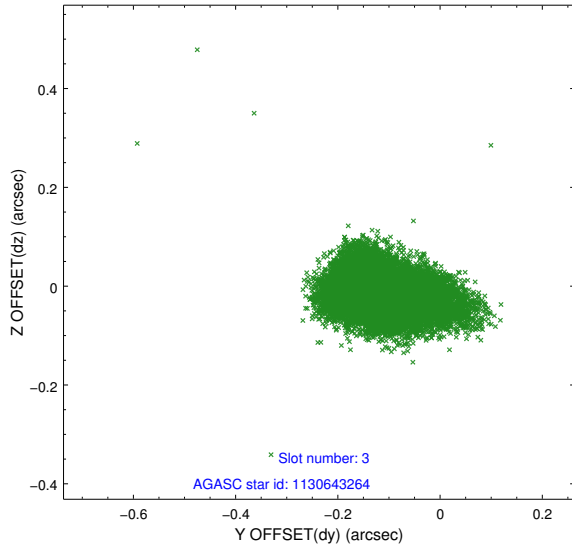


### Slot Statistics

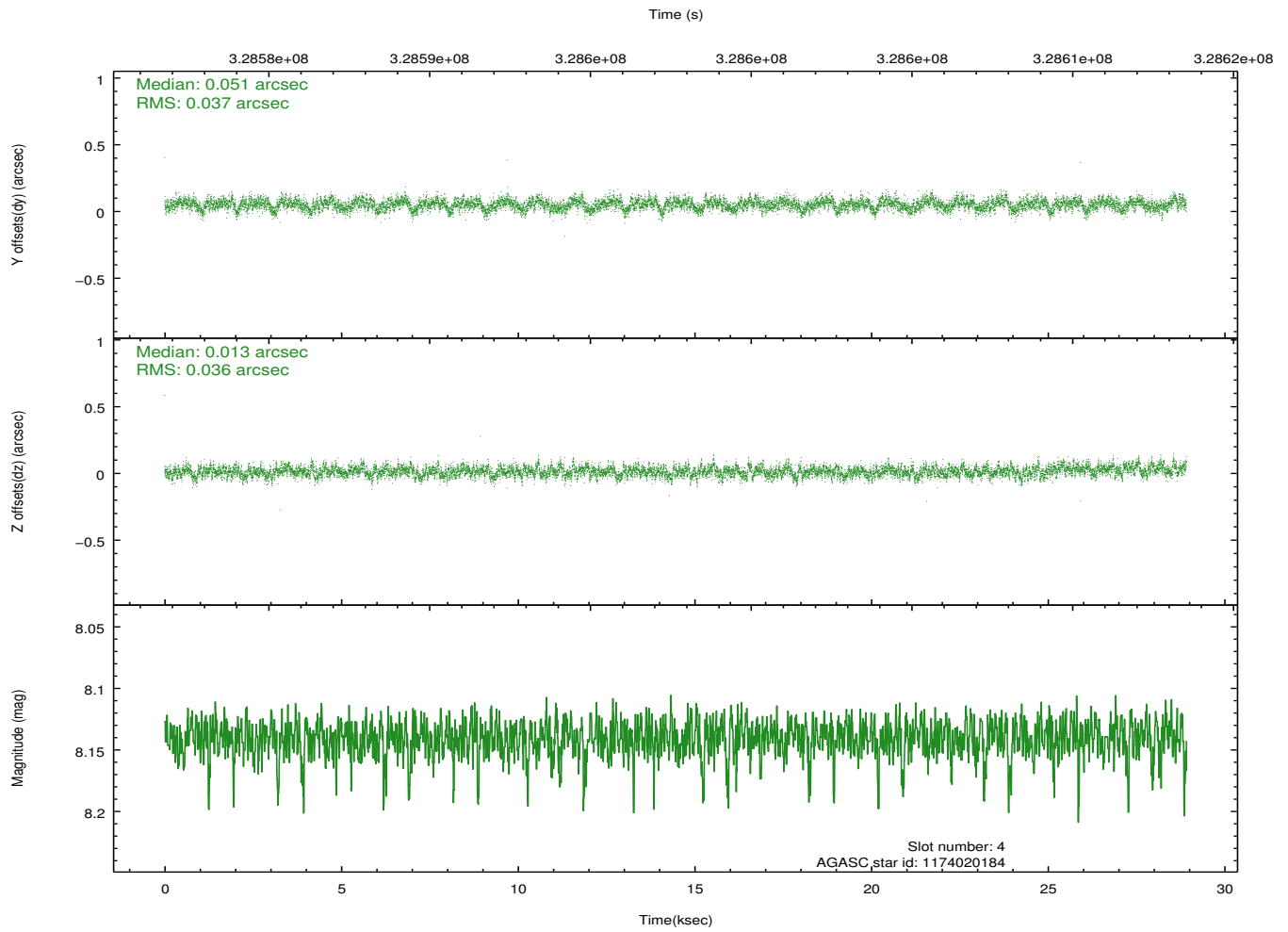
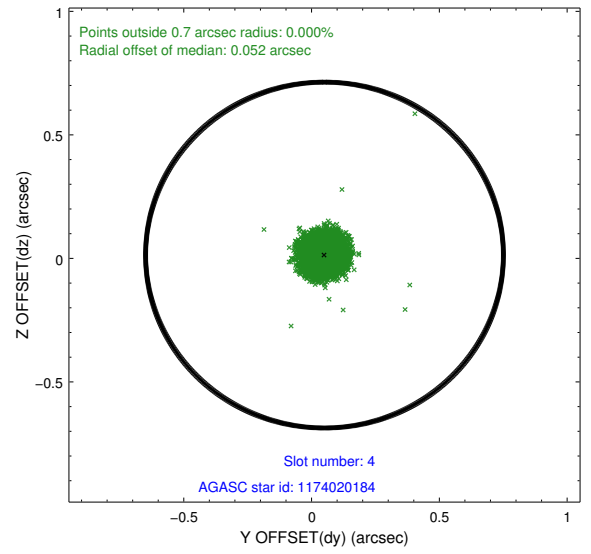
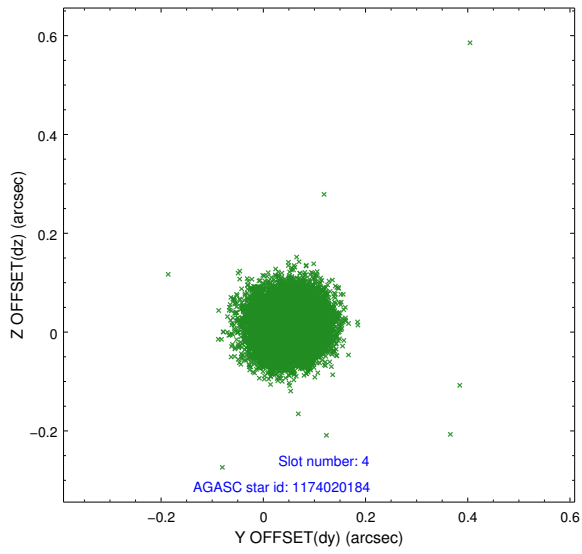
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	7054	-0.024	0.086	0.009	0.015	0.000000	0.000000	927.01	-837.39
1	FID	ACIS-I-2	6.92	7054	-0.091	-0.070	0.009	0.015	0.000000	0.000000	-767.11	-844.04
2	FID	ACIS-I-6	7.00	7054	0.025	0.051	0.008	0.015	0.000000	0.000000	392.64	1704.34
3	GUIDE	1130643264	6.67	14108	-0.104	-0.023	0.077	0.125	160.322990	-59.676912	-1159.93	-394.26
4	GUIDE	1174020184	8.14	14100	0.051	0.013	0.054	0.088	159.502388	-60.147833	735.54	-1608.90
5	GUIDE	1174020200	8.33	14104	-0.006	-0.045	0.057	0.093	160.489138	-60.487295	1686.95	310.05
6	GUIDE	1174021440	8.39	14103	0.104	-0.018	0.064	0.101	160.869011	-60.314711	979.44	894.49
7	GUIDE	1174027824	9.14	14082	-0.044	0.069	0.098	0.158	161.465908	-60.192420	405.49	1895.31

## 2.4 Star Slots

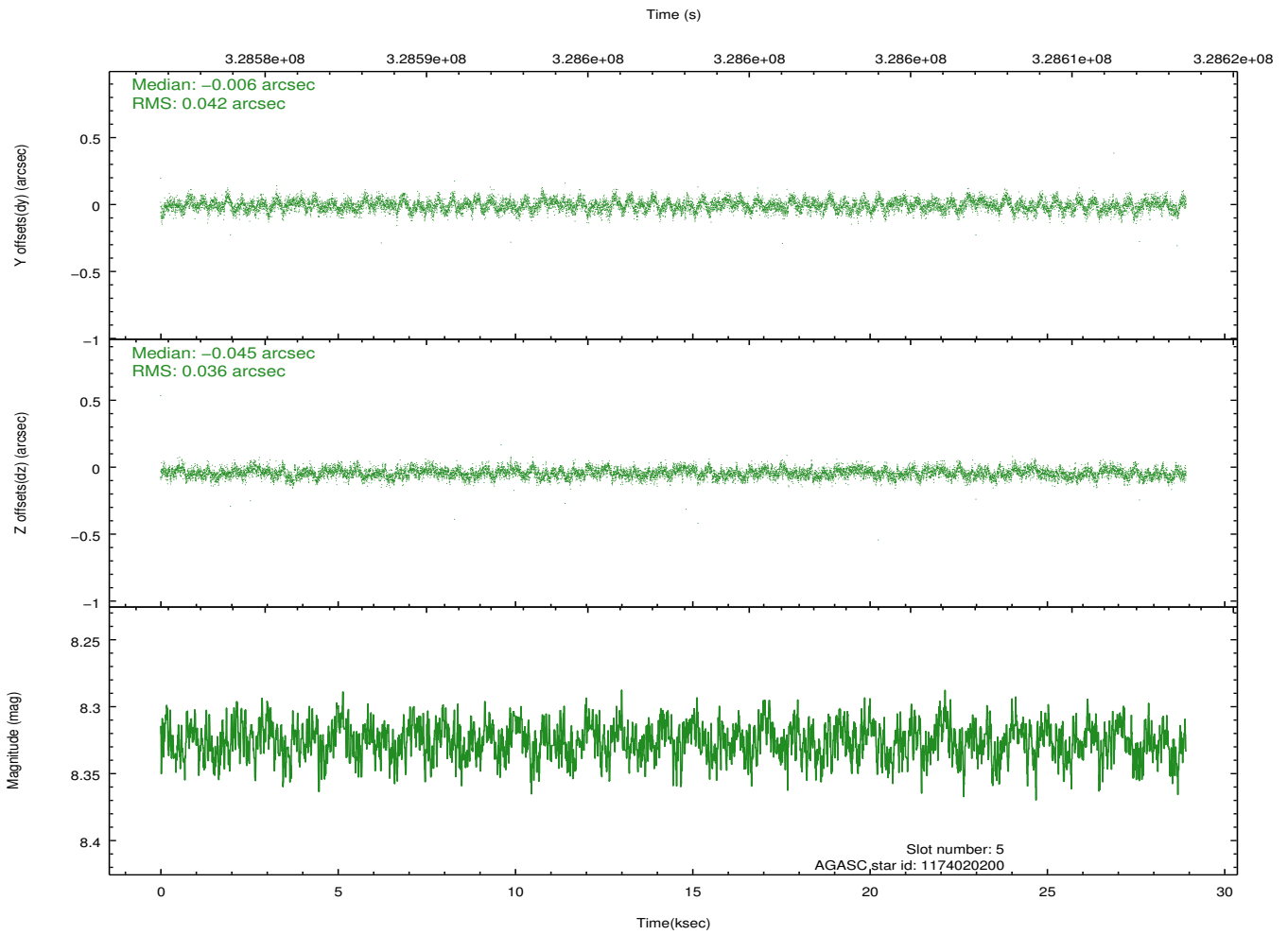
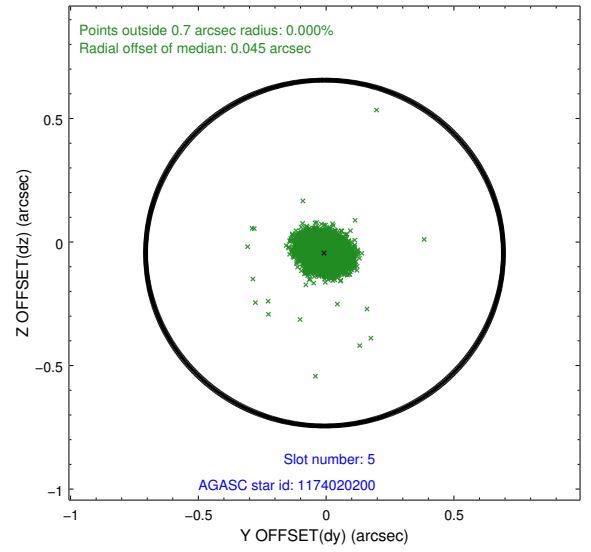
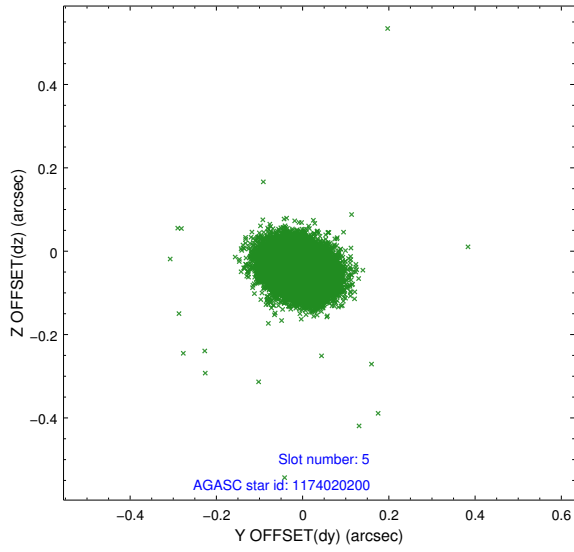
### 2.4.1 Slot 3



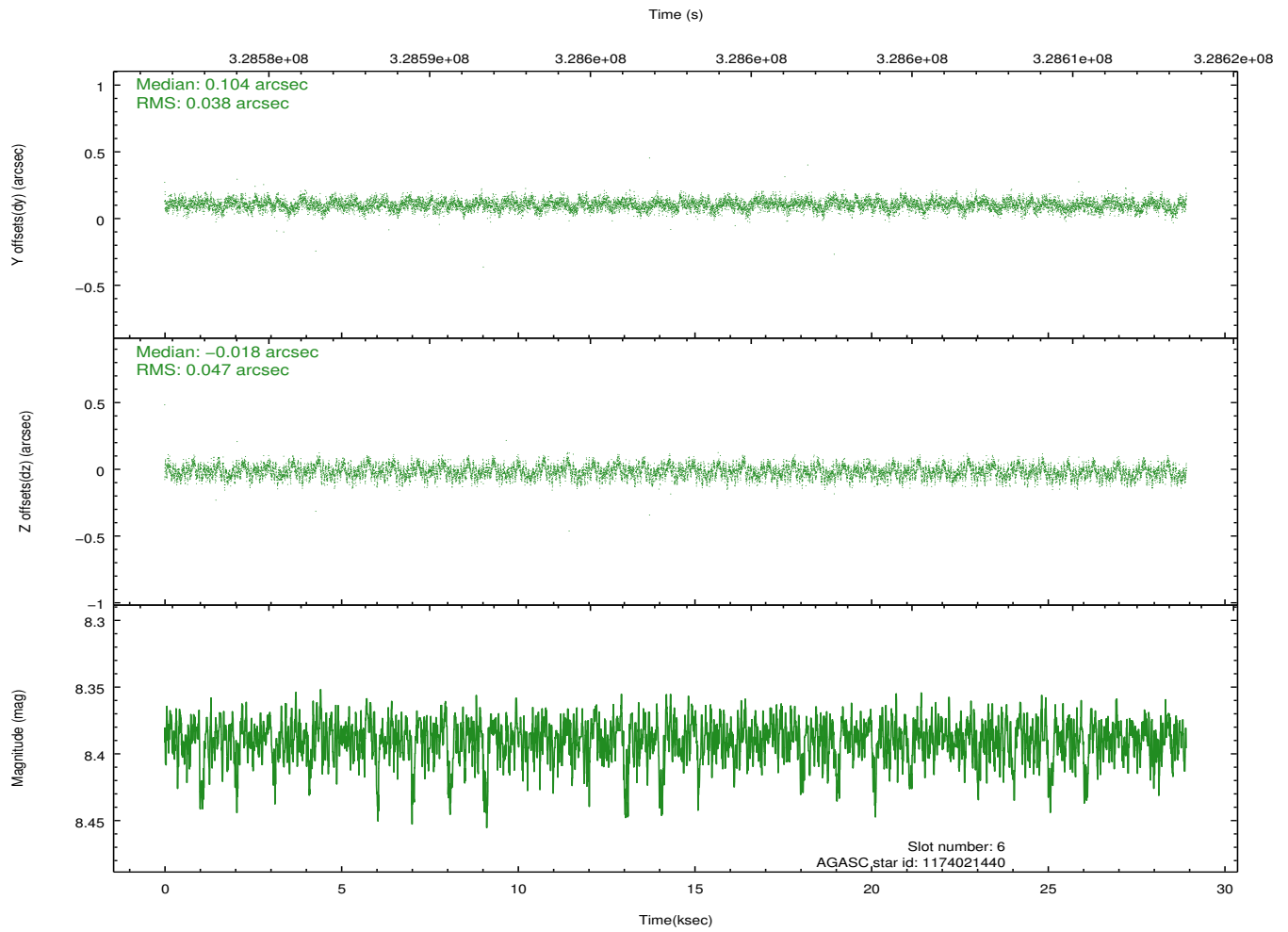
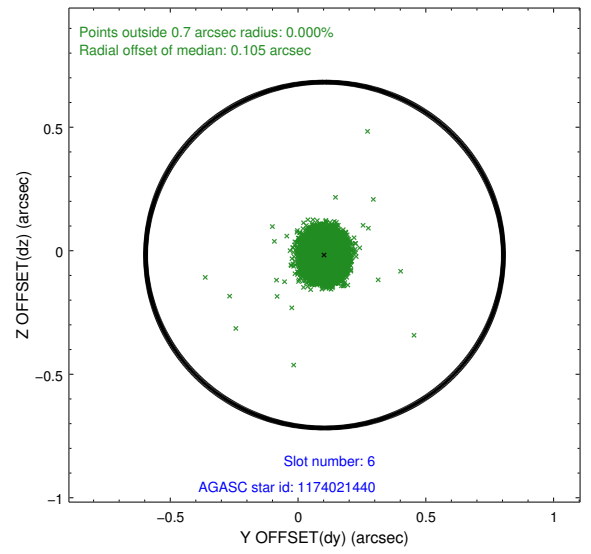
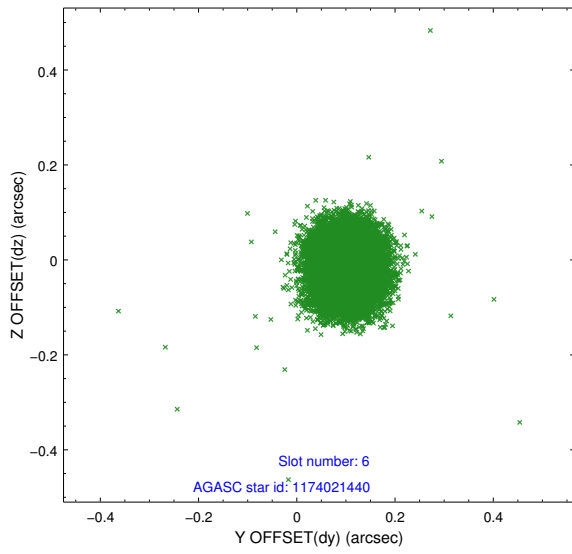
## 2.4.2 Slot 4



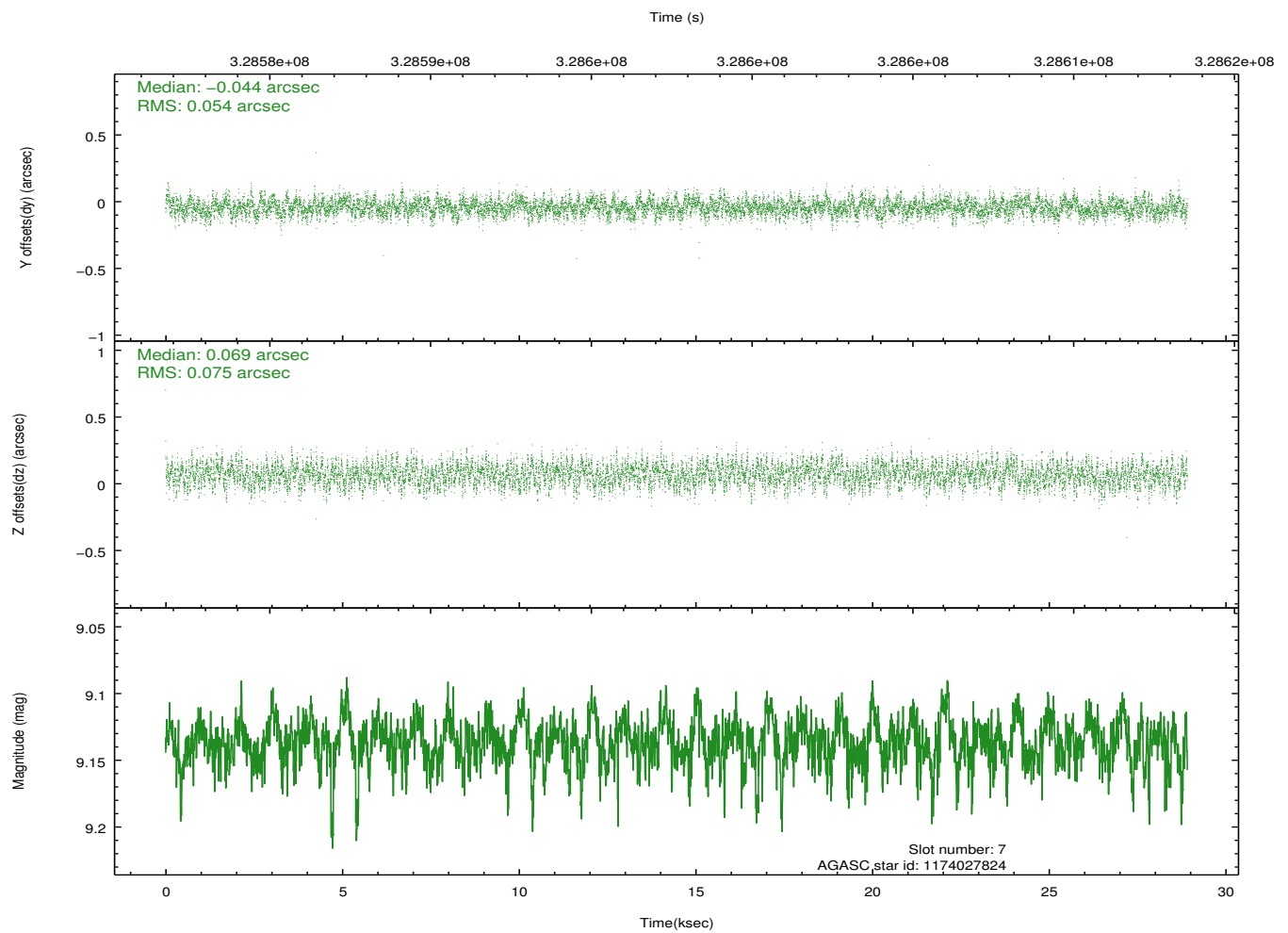
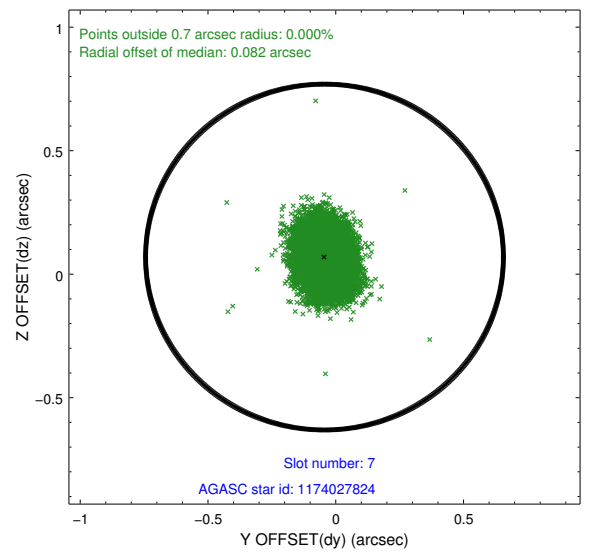
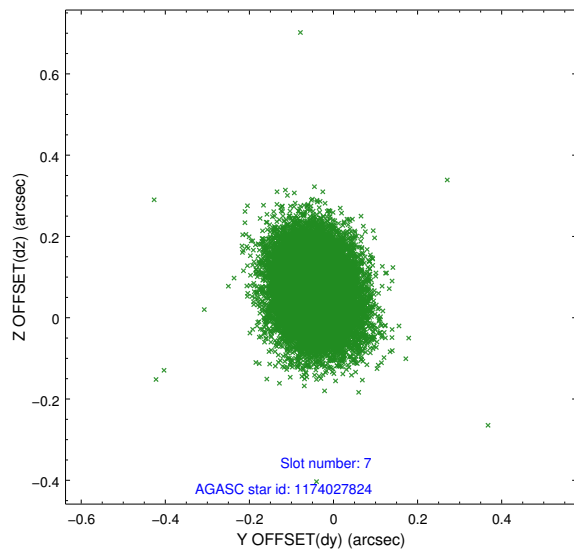
### 2.4.3 Slot 5



### 2.4.4 Slot 6

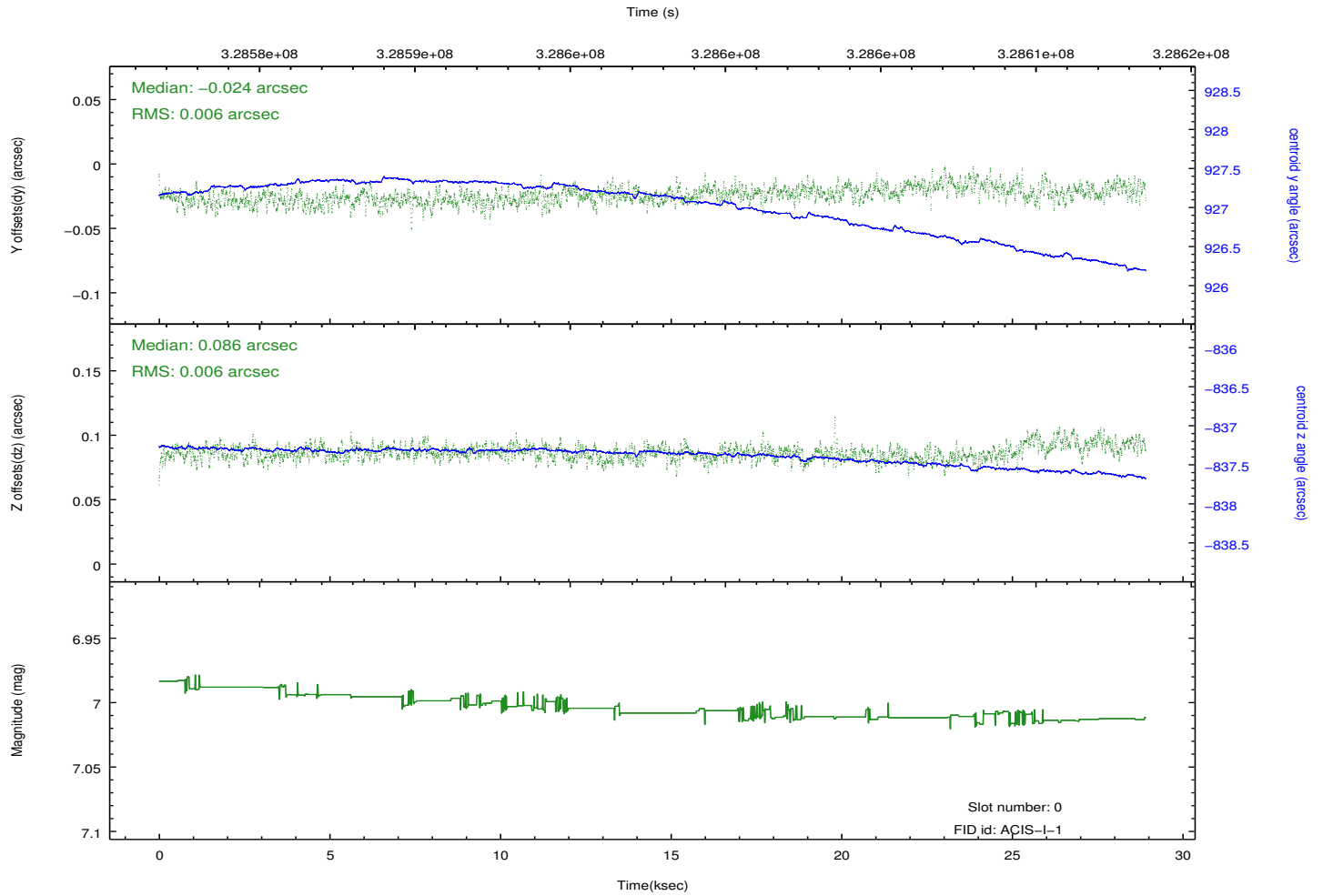
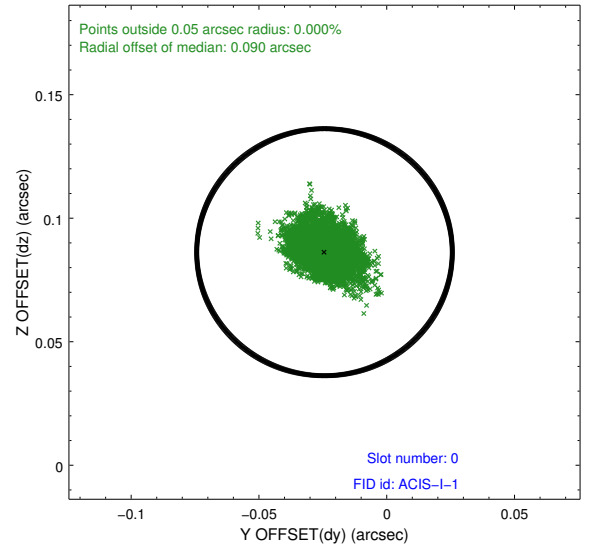
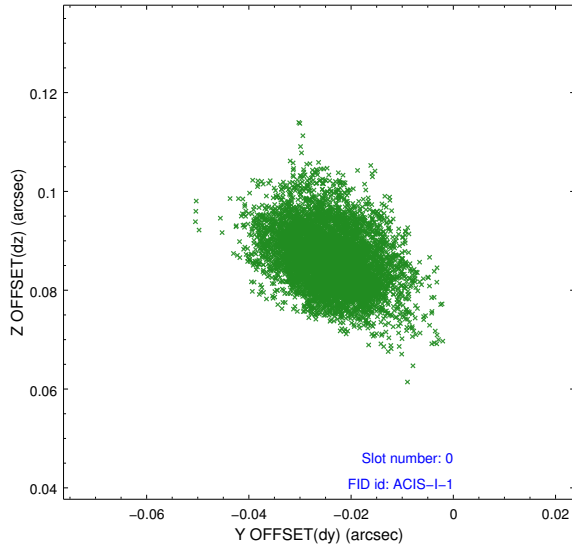


## 2.4.5 Slot 7

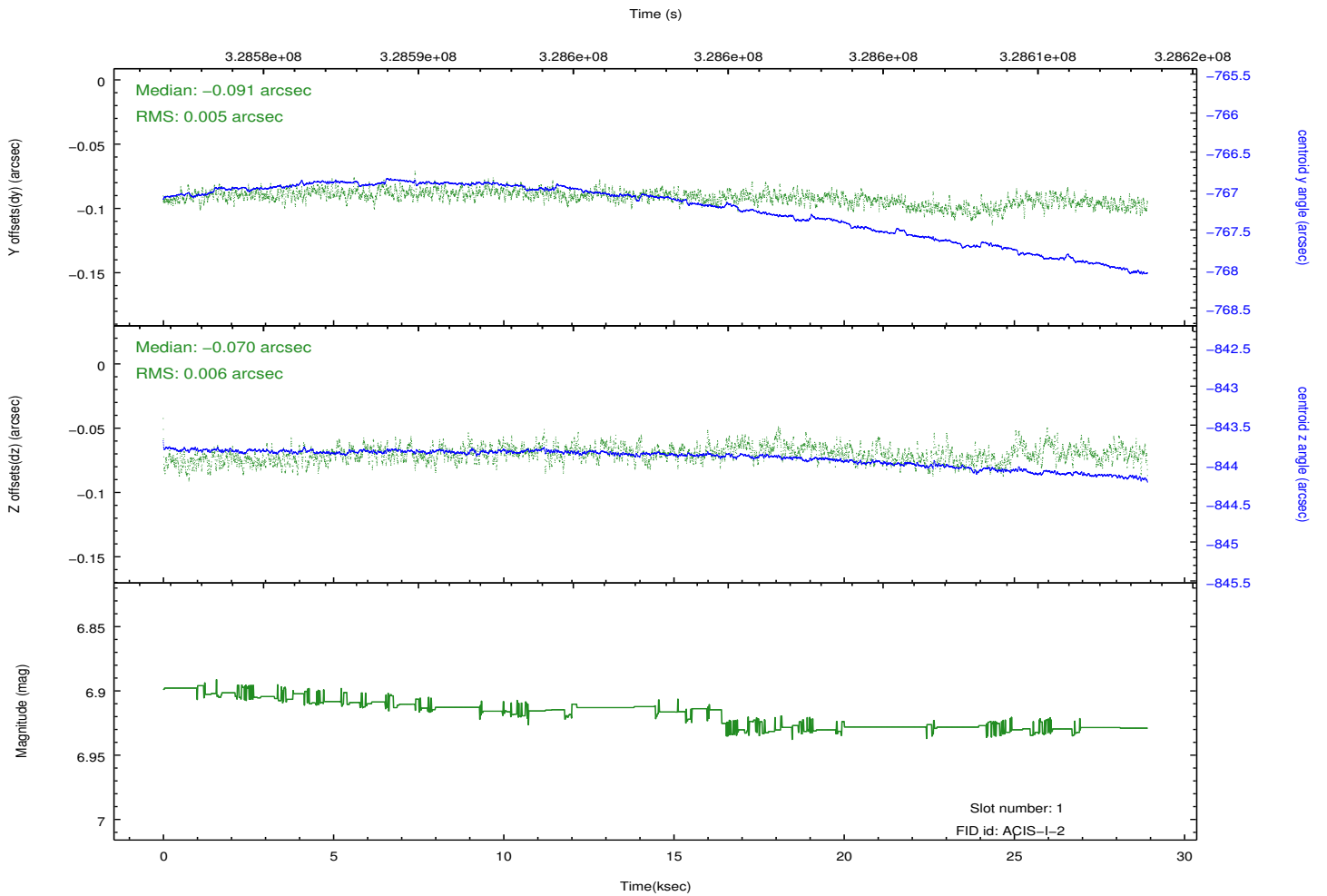
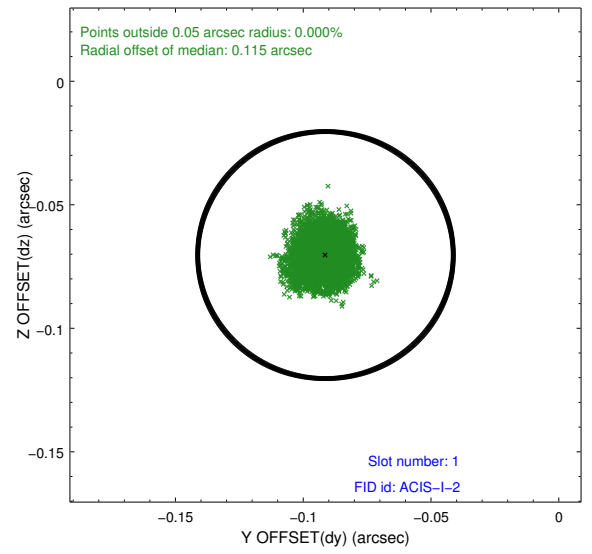
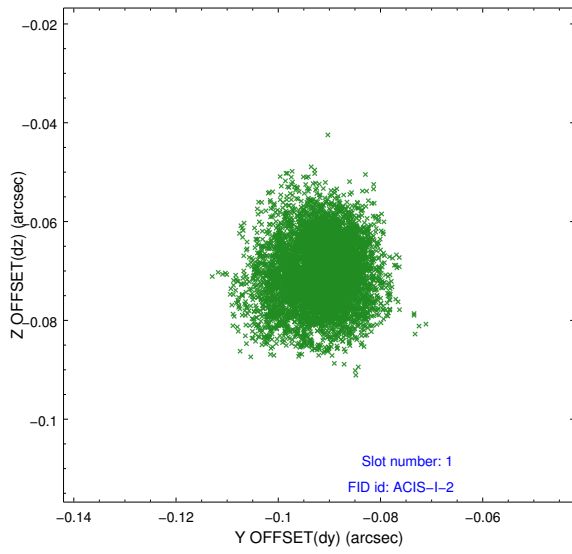


## 2.5 FID Slots

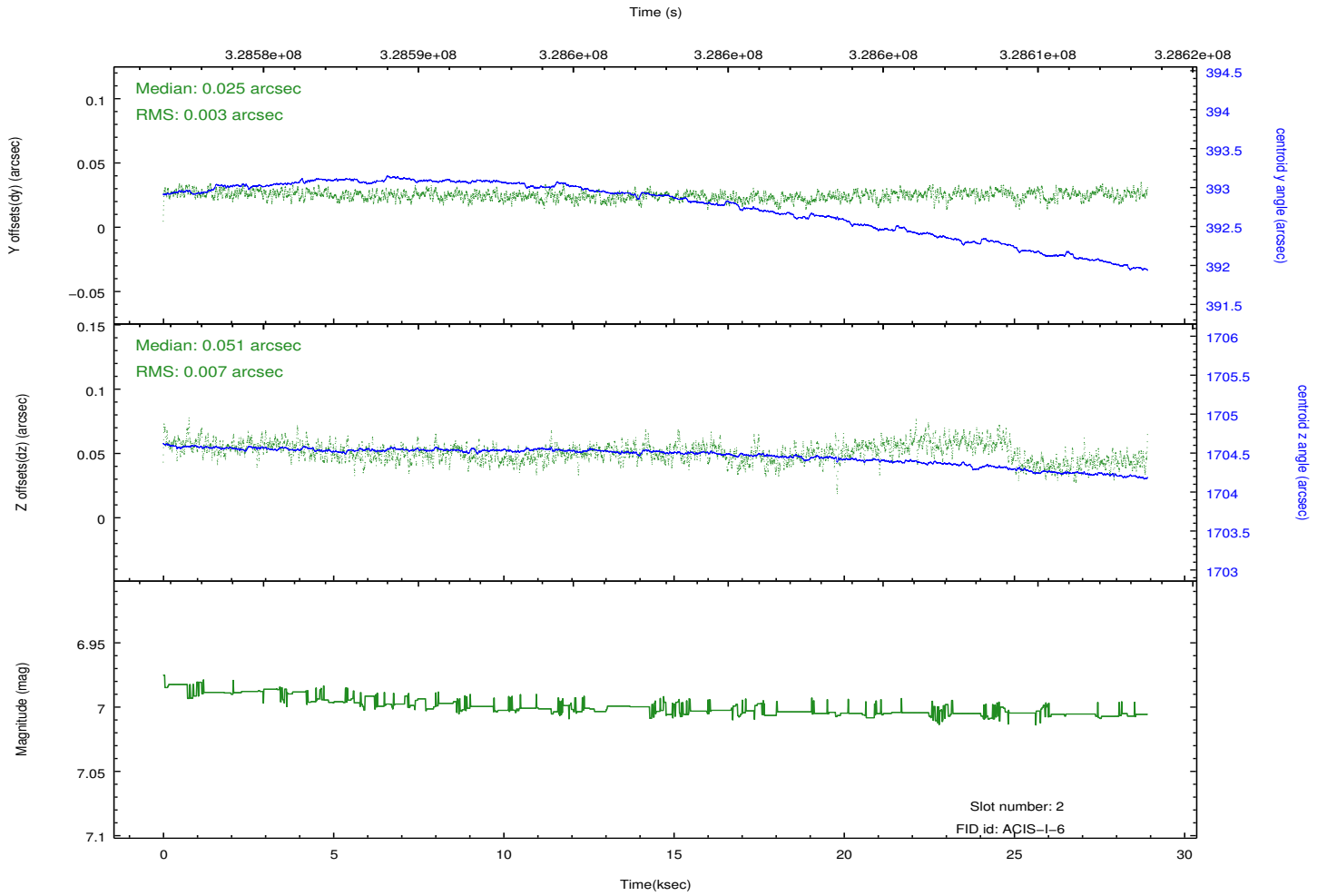
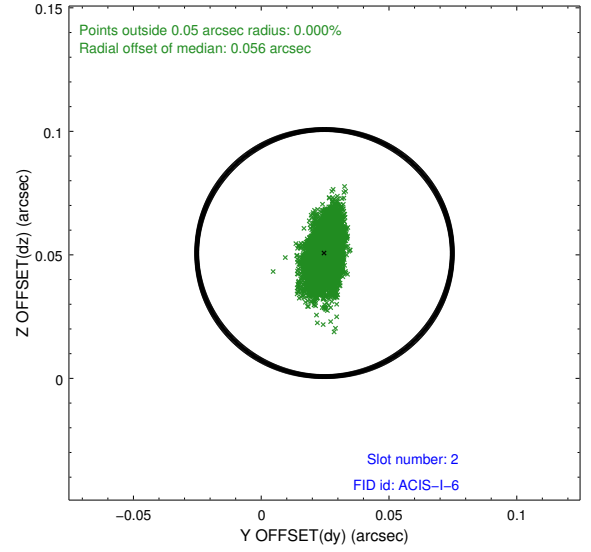
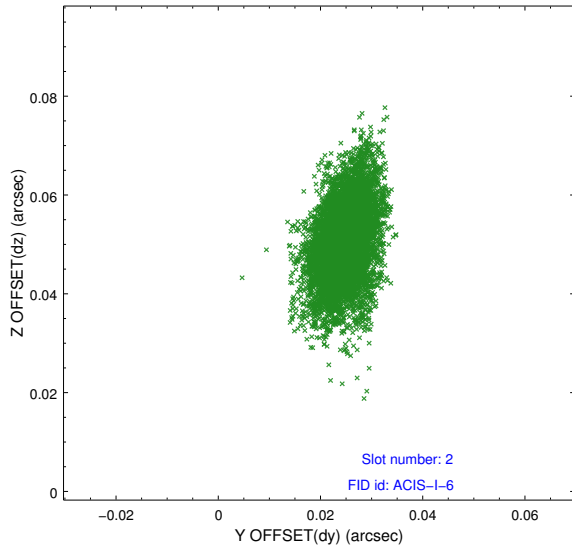
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.5439998

### **A.2 Comments**