

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8554 - L2 Version 3  
Chandra X-Ray Center

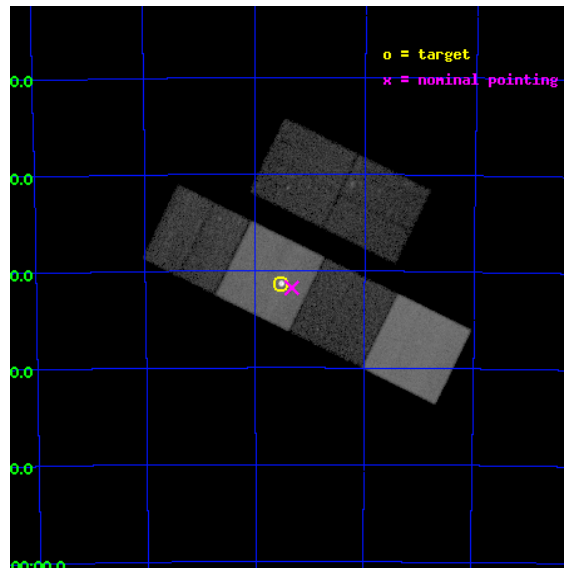
L2 Processing Date : Apr 24 2012

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# 1 Front

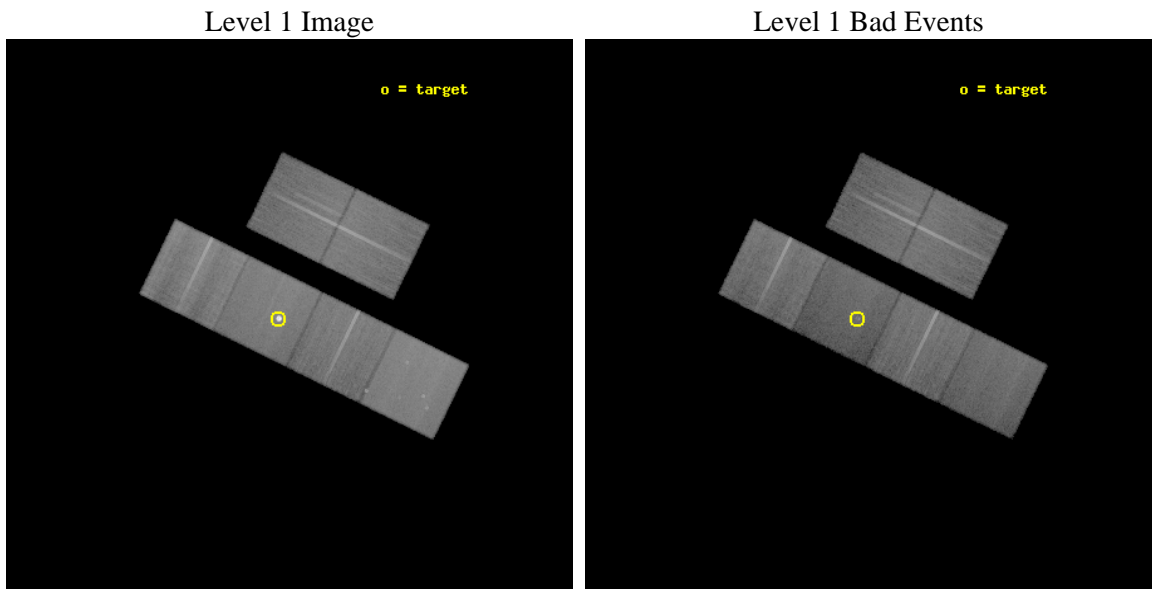
seq_num	500764	Sequence number
obs_id	8554	Observation id
title	The Proper Motion of Supernova Remnant E0509-67.5	Proposal title
observer	Prof. John Hughes	Principal investigator
object	0509-67.5	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	77.382917	Observer's specified target RA [deg]
dec_targ	-67.521389	Observer's specified target Dec [deg]
ra_nom	77.332167189874	Nominal RA [deg]
dec_nom	-67.529032561081	Nominal Dec [deg]
roll_nom	206.10972520789	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29846.399888873	Sum of GTIs [s]
liveltime	29468.466802136	Livetime [s]
ontime2	29843.158908606	Sum of GTIs [s]
ontime3	29843.158948541	Sum of GTIs [s]
ontime5	29846.399888873	Sum of GTIs [s]
ontime6	29836.677047789	Sum of GTIs [s]
ontime7	29846.399888873	Sum of GTIs [s]
ontime8	29843.15891856	Sum of GTIs [s]
l2events	398421	Number of level 2 events



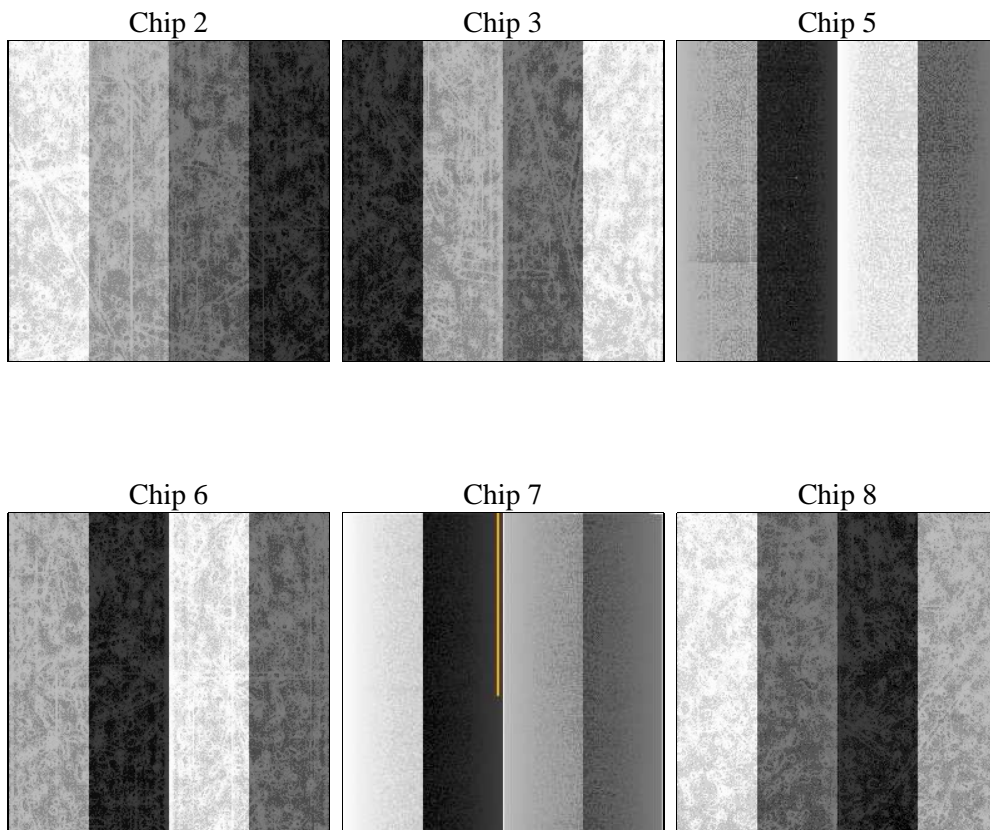
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29805.623000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	29846.399888873	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	29843.158908606	Sum of GTIs [s]
date	2012-04-24T10:54:56	Date and time of file creation	ontime3	29843.158948541	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	29846.399888873	Sum of GTIs [s]
			ontime6	29836.677047789	Sum of GTIs [s]
			ontime7	29846.399888873	Sum of GTIs [s]
			ontime8	29843.15891856	Sum of GTIs [s]
			l1events	1656942	Number of level 1 events

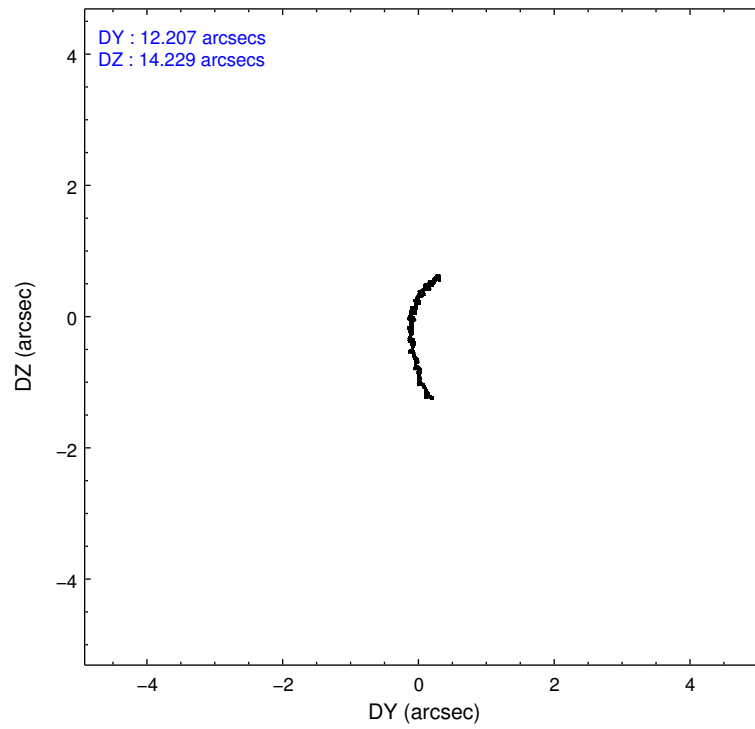
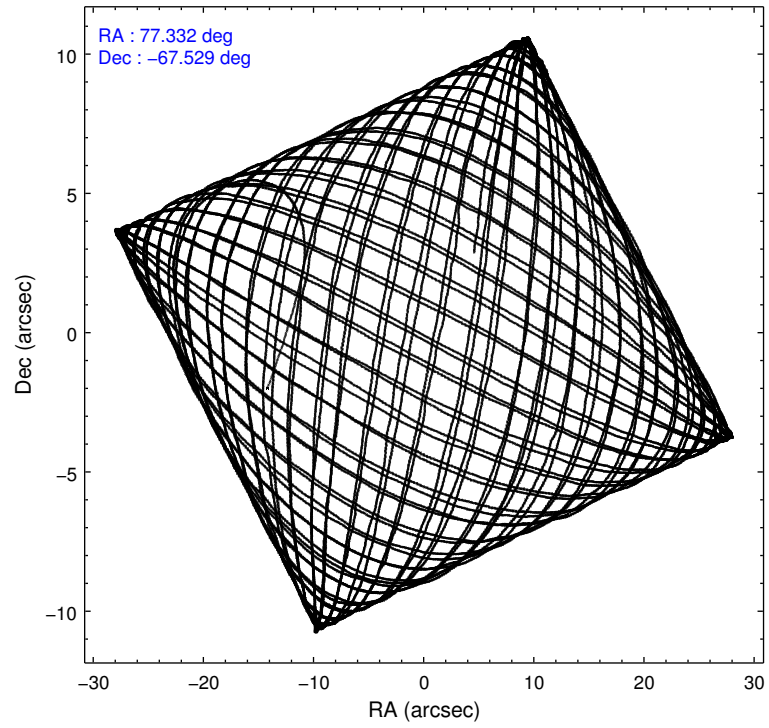
### 2.1.4 Events

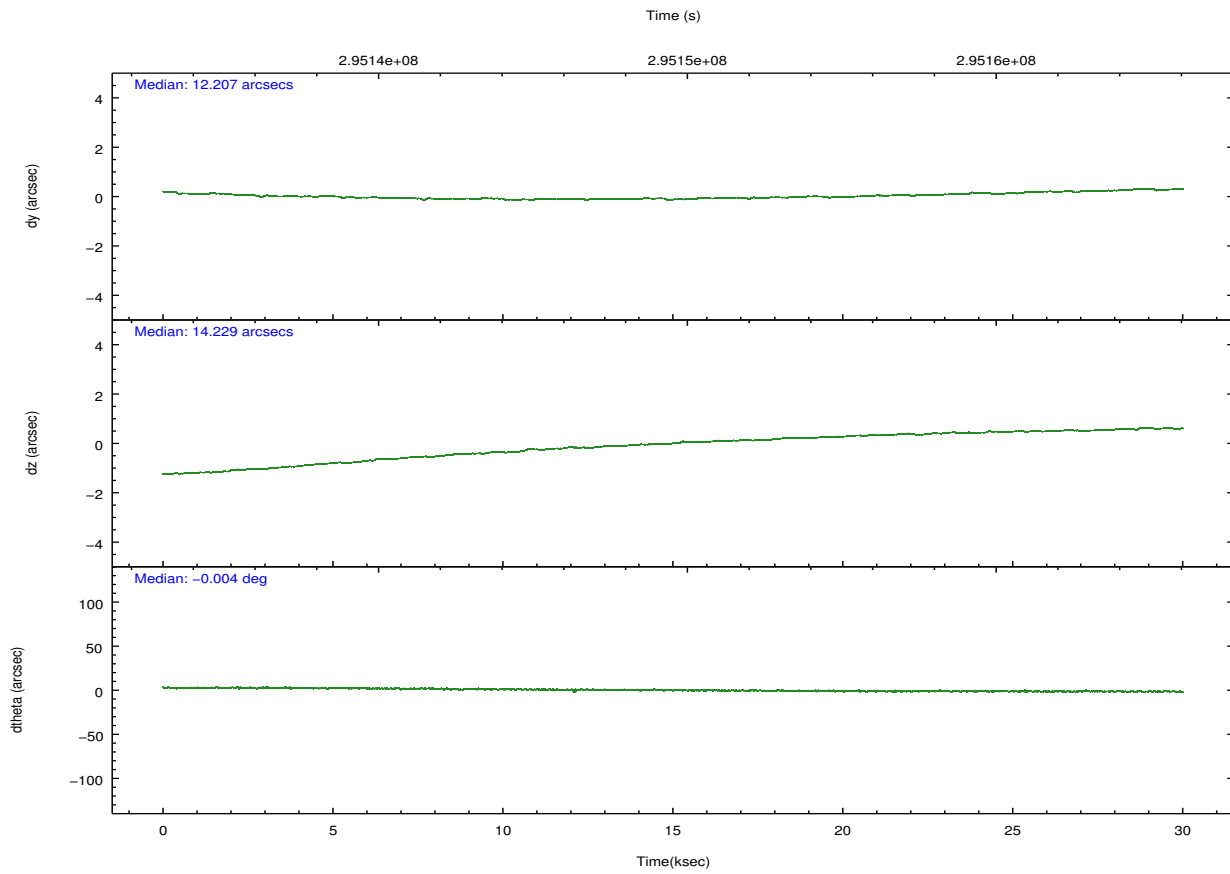
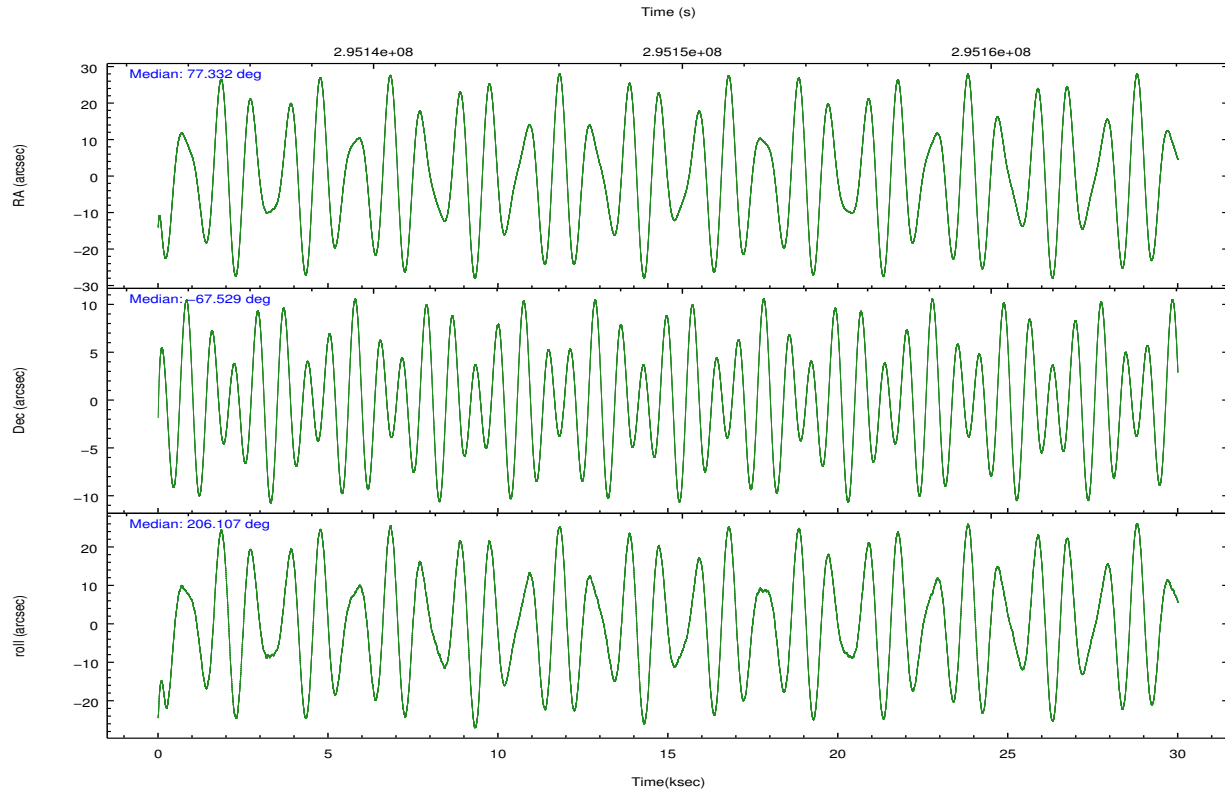
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	254955	229266	321880	241351	308735	300755	grade 0 events	8639	7799	13569	8677	28250	22245
rejected events	231456	207325	163140	217016	143500	227892		3%	3%	4%	3%	9%	7%
rejected %	90%	90%	50%	89%	46%	75%	grade 1 events	151	116	639	109	400	236
								0%	0%	0%	0%	0%	0%
							grade 2 events	5502	4762	47013	5398	36315	16130
								2%	2%	14%	2%	11%	5%
							grade 3 events	2511	2420	6866	2649	16302	7857
								0%	1%	2%	1%	5%	2%
							grade 4 events	2625	2515	6562	2579	16294	7158
								1%	1%	2%	1%	5%	2%
							grade 5 events	7843	9479	25564	9469	28075	13749
								3%	4%	7%	3%	9%	4%
							grade 6 events	4225	4452	84760	5036	68109	19490
								1%	1%	26%	2%	22%	6%
							grade 7 events	223459	197723	136907	207434	114990	213890
								87%	86%	42%	85%	37%	71%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	77.371232	77.33216718987448	CCD I2 on	Y	Y
[deg] Pointing Dec	-67.506136	-67.52903256108108	CCD I3 on	Y	Y
[deg] Pointing Roll	205.989195	206.109725207895	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	295134731.184000	295133717.55964	CCD S5 on	N	N
Observation start date	2007-05-09T21:51:06	2007-05-09T21:35:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	295164536.184000	295164763.27362	On-chip summing requested	N	N
Observation end date	2007-05-10T06:07:51	2007-05-10T06:12:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



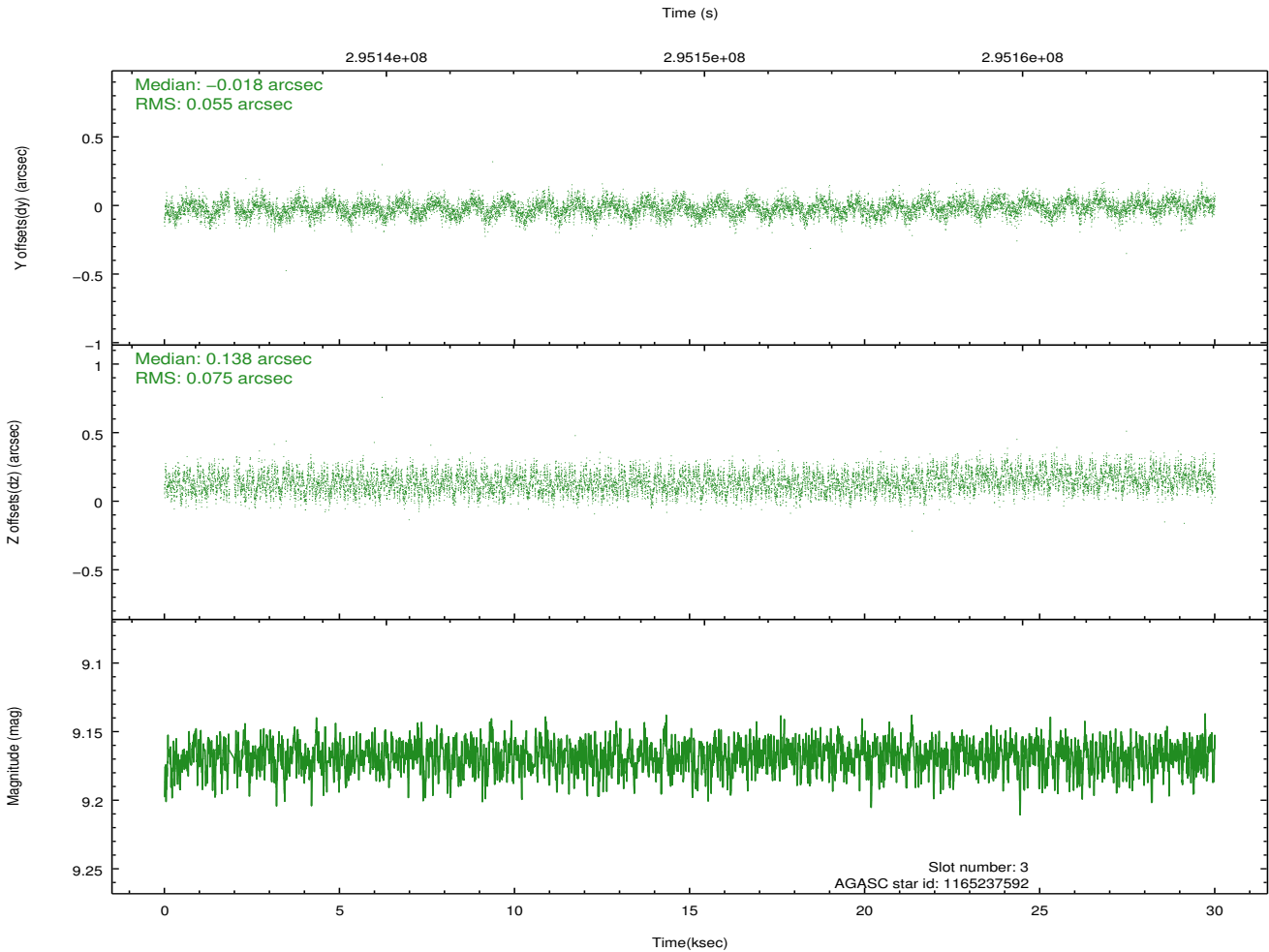
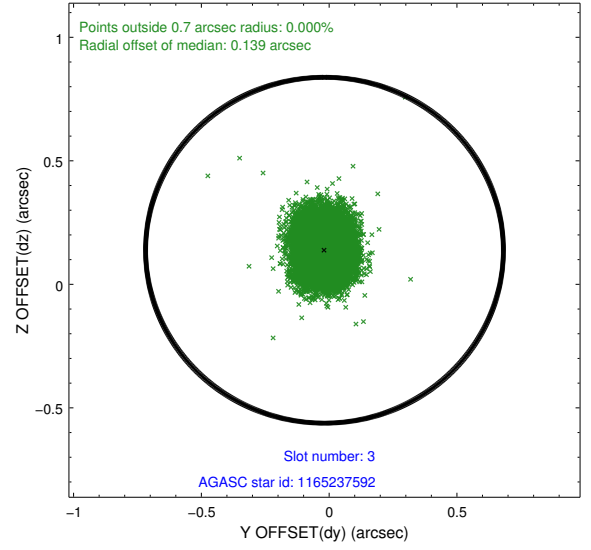
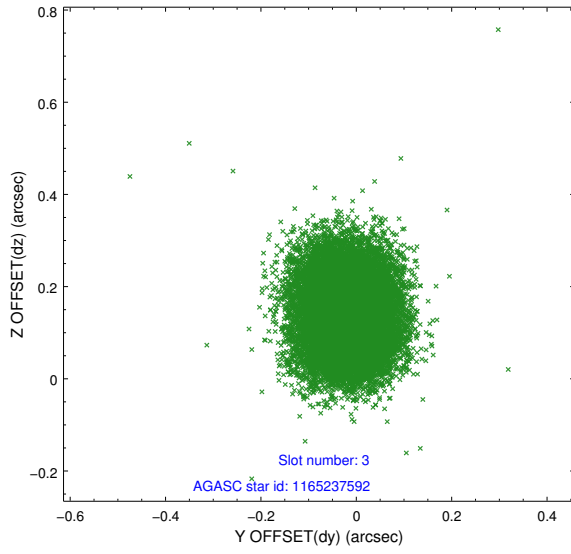


### Slot Statistics

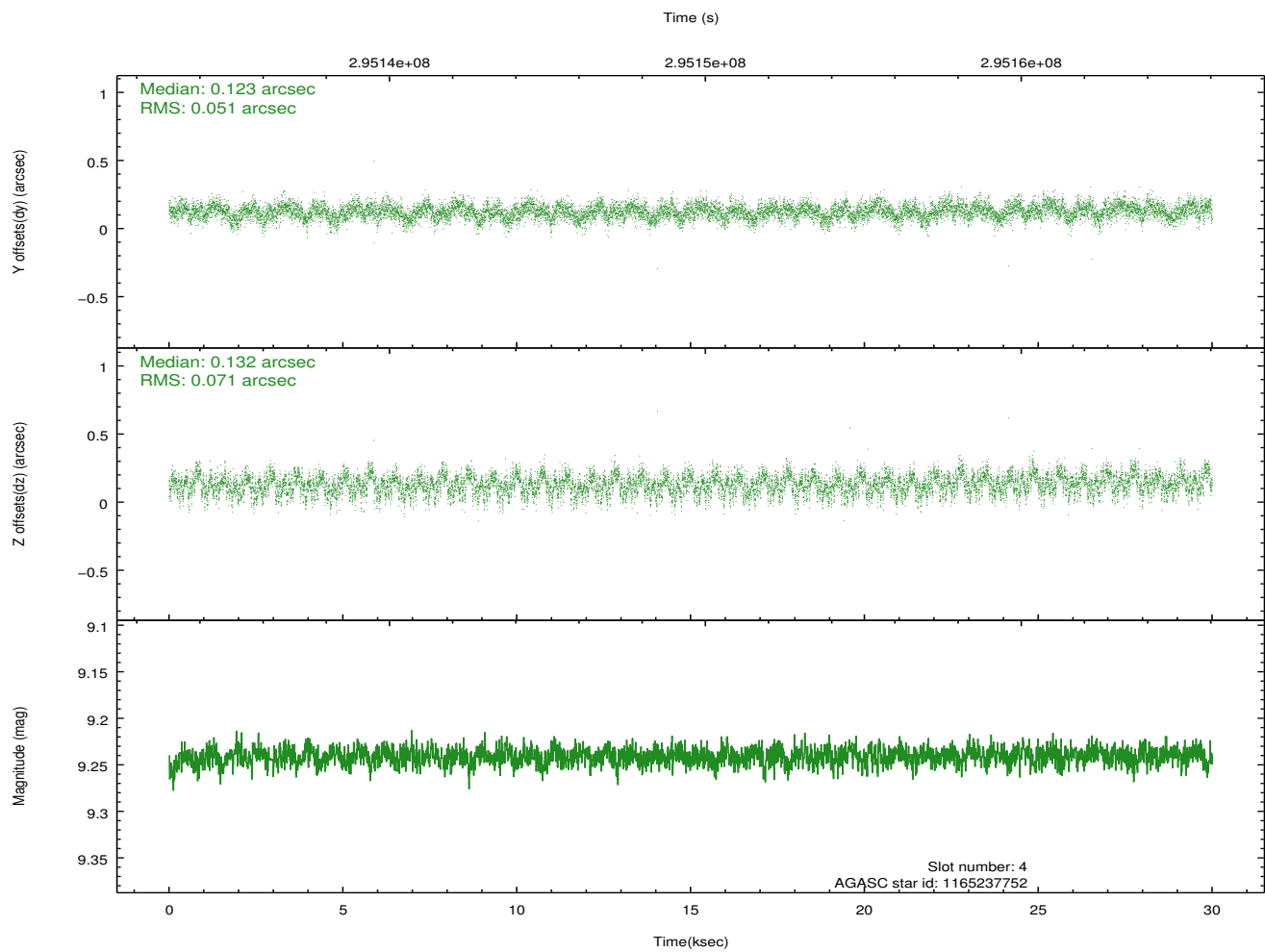
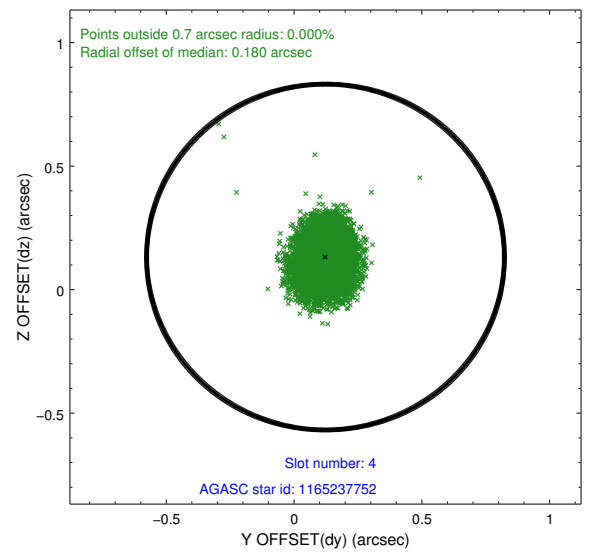
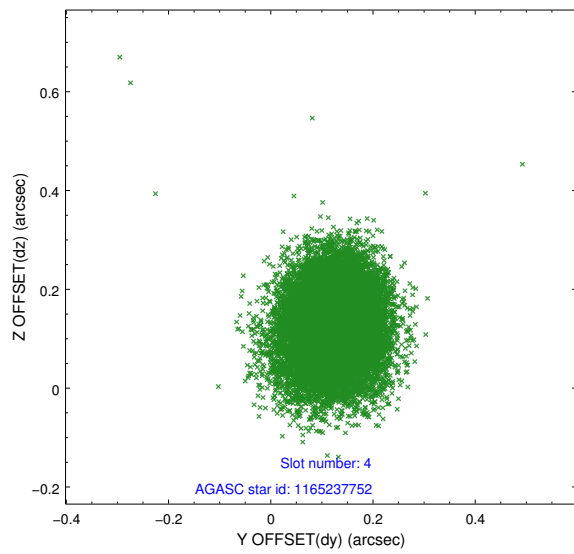
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	7318	-0.044	-0.056	0.020	0.029	0.000000	0.000000	-765.16	-1735.47
1	FID	ACIS-S-4	7.19	7317	0.155	0.034	0.009	0.017	0.000000	0.000000	2148.27	173.03
2	FID	ACIS-S-5	7.23	7315	-0.146	0.027	0.018	0.026	0.000000	0.000000	-1818.02	166.76
3	GUIDE	1165237592	9.17	14557	-0.018	0.138	0.100	0.158	77.805096	-66.687972	-1845.13	-2374.68
4	GUIDE	1165237752	9.24	14627	0.123	0.132	0.093	0.151	78.075114	-67.094879	-1532.67	-893.67
5	GUIDE	1200883632	9.11	14624	0.027	-0.059	0.083	0.137	79.186141	-67.543567	-2168.08	1247.45
6	GUIDE	1200888000	8.65	14634	-0.003	-0.228	0.087	0.134	78.402273	-68.021569	-430.50	2287.18
7	GUIDE	1200758760	8.29	14567	-0.127	0.016	0.066	0.109	76.277764	-68.086435	2241.56	1246.25

## 2.4 Star Slots

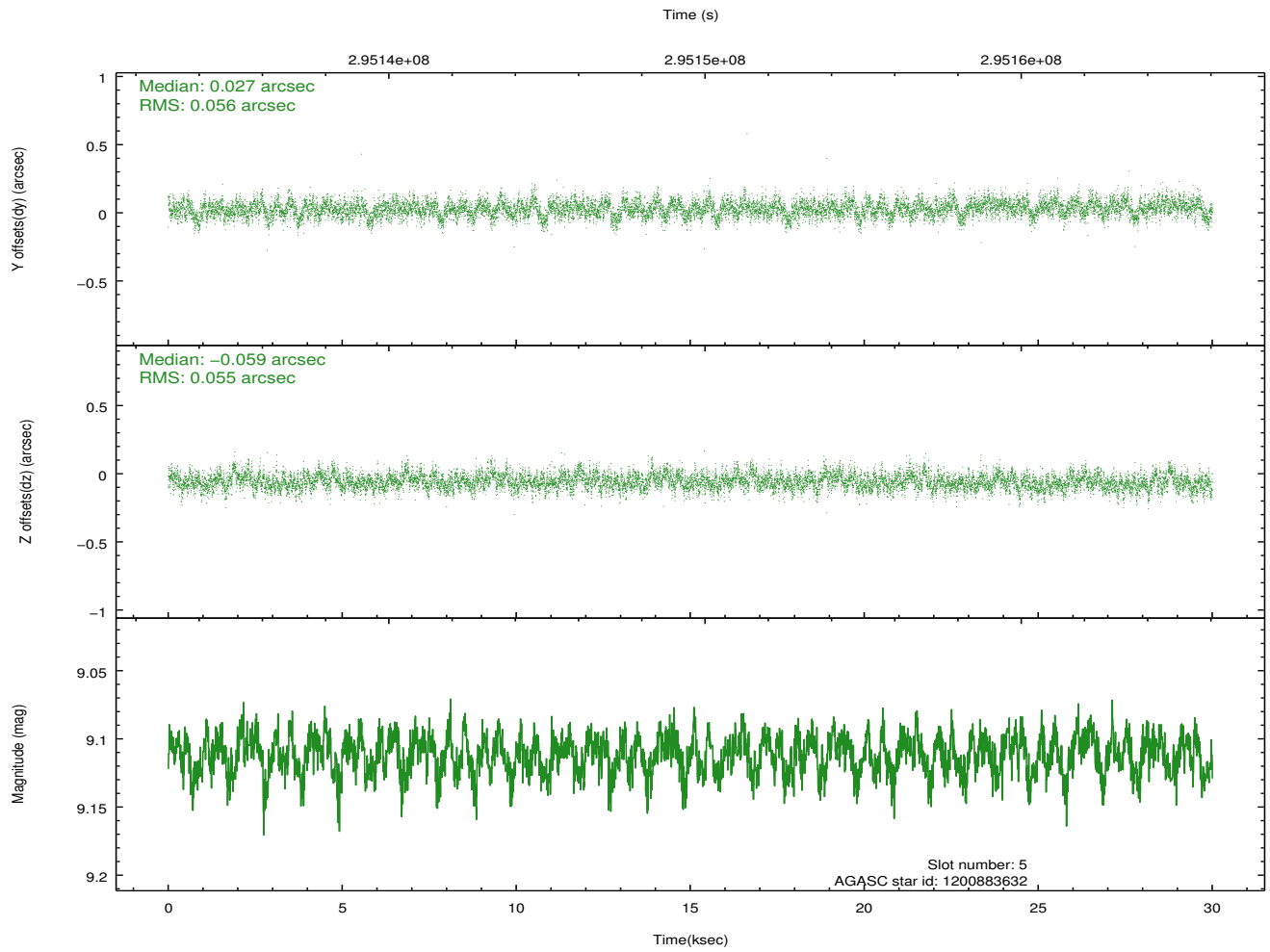
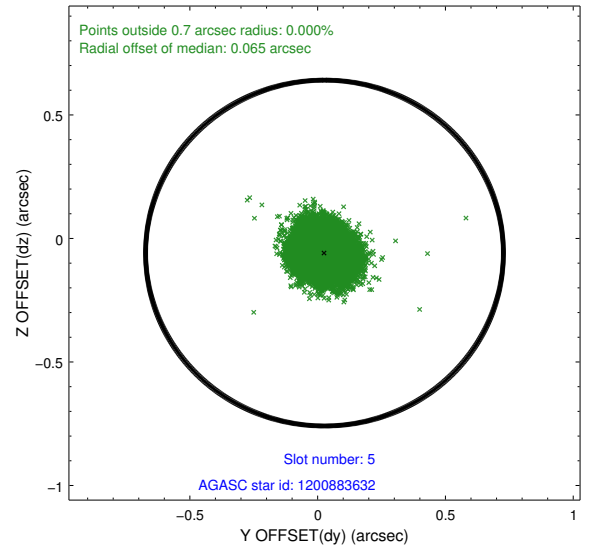
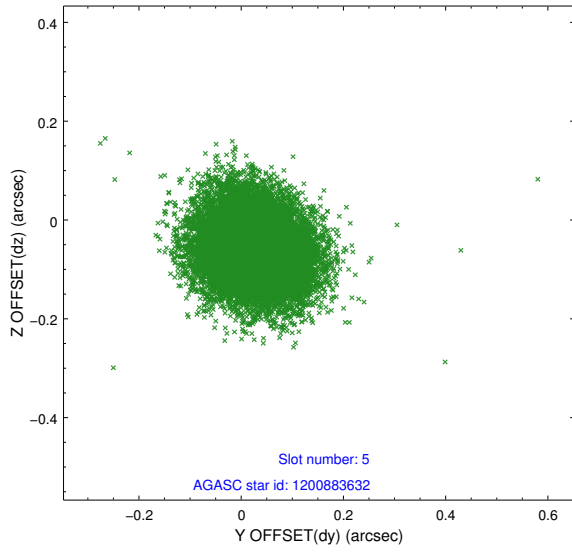
### 2.4.1 Slot 3



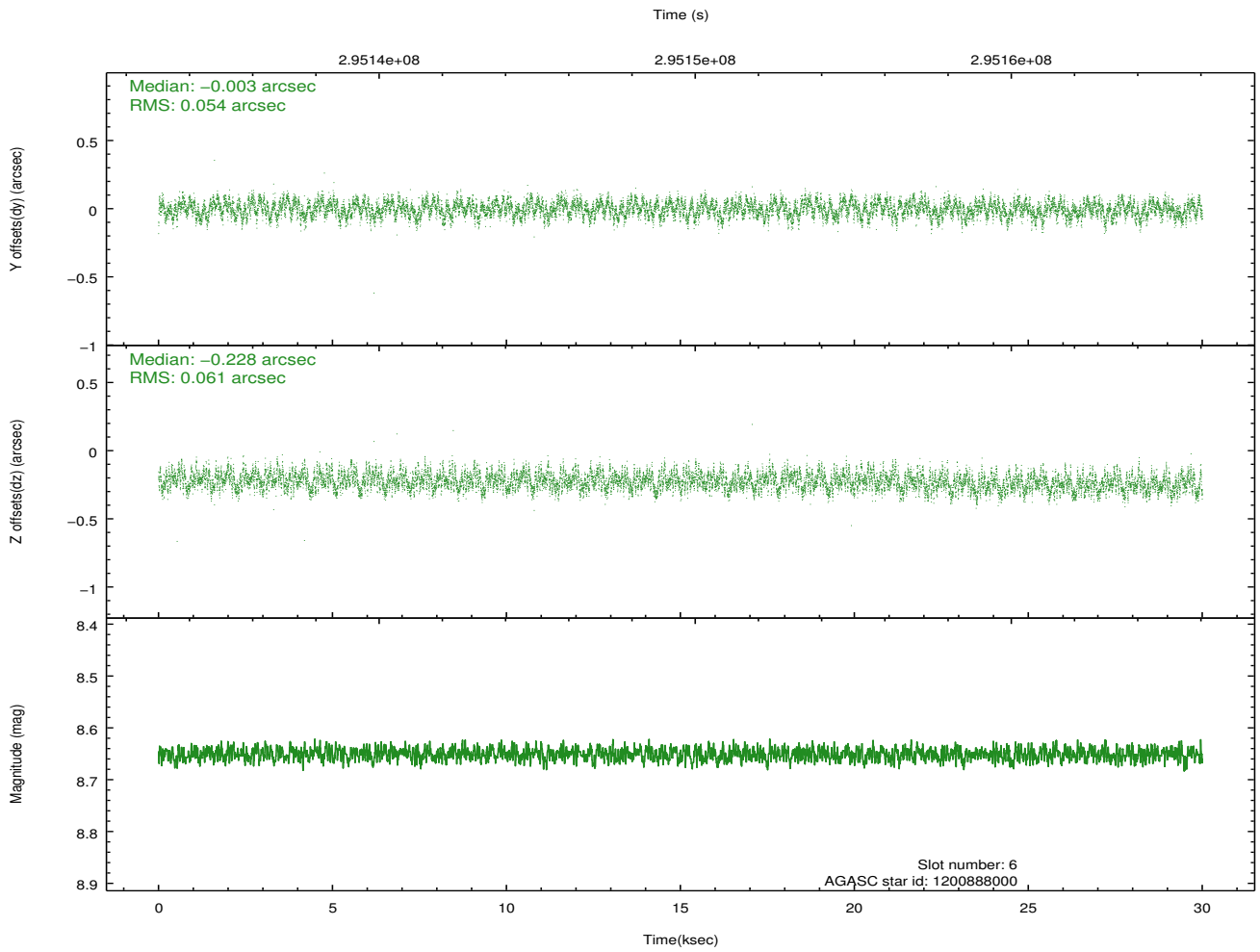
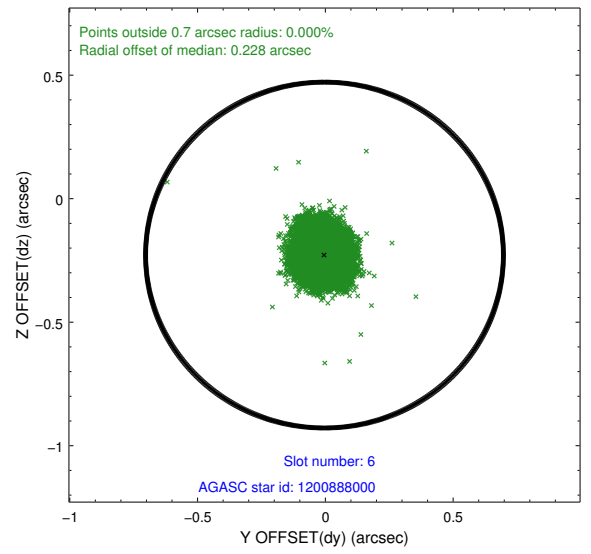
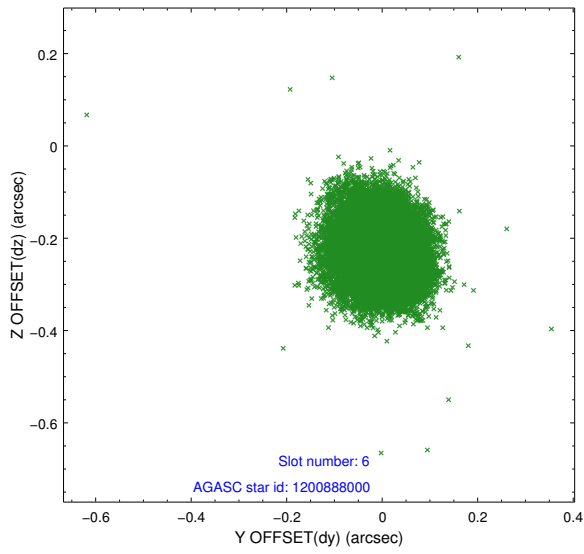
## 2.4.2 Slot 4



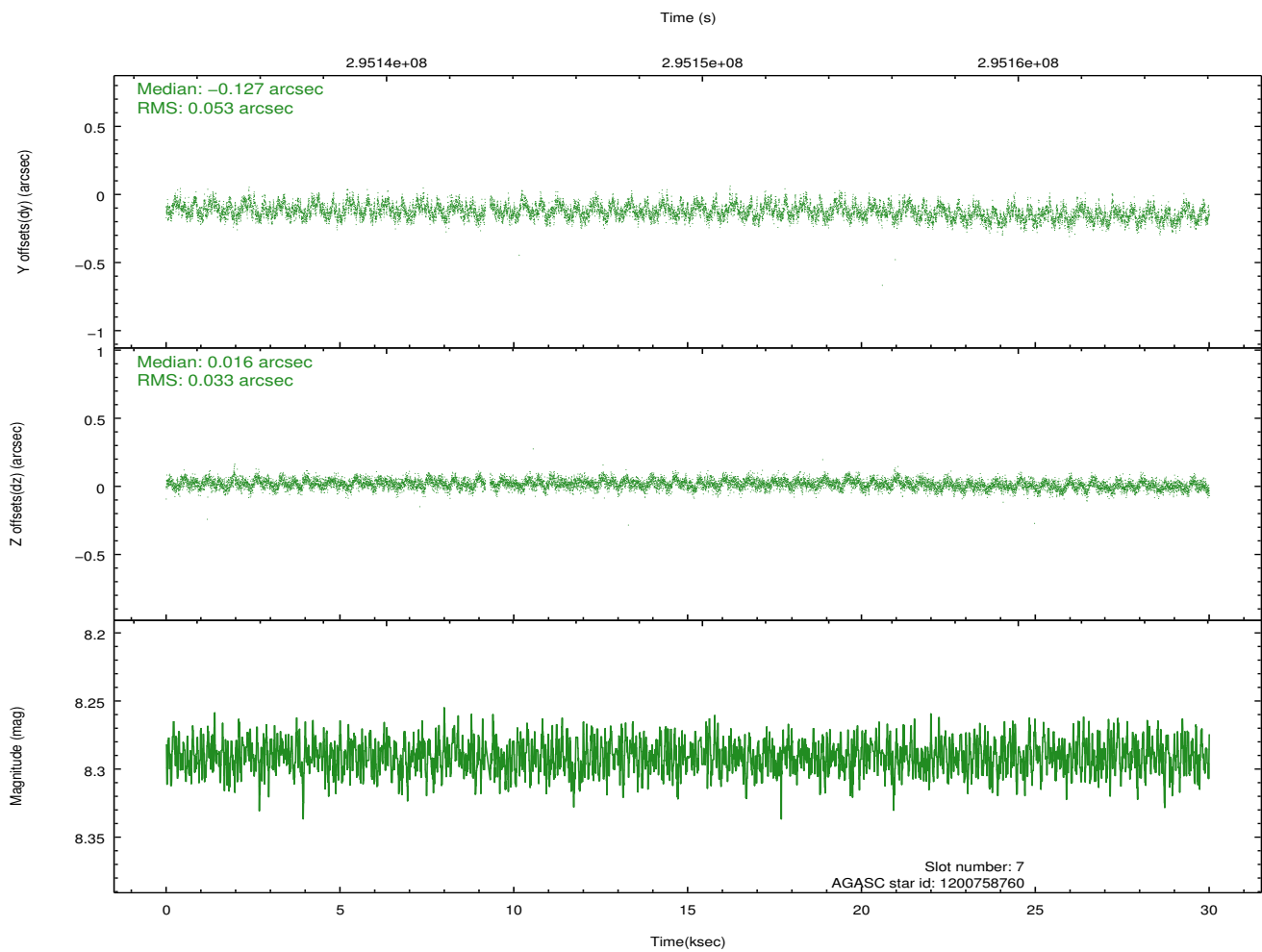
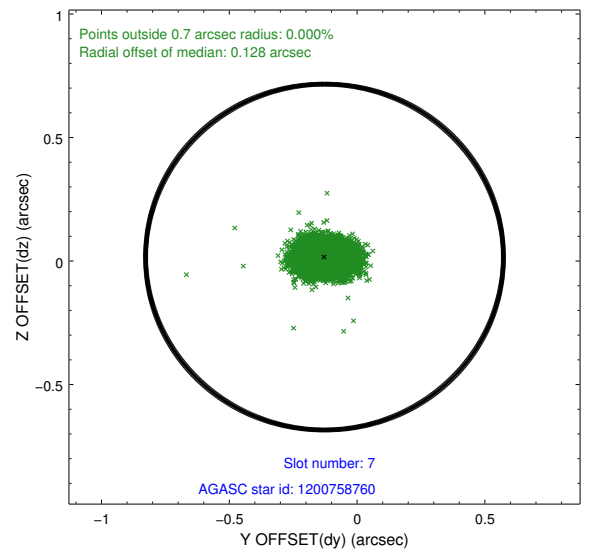
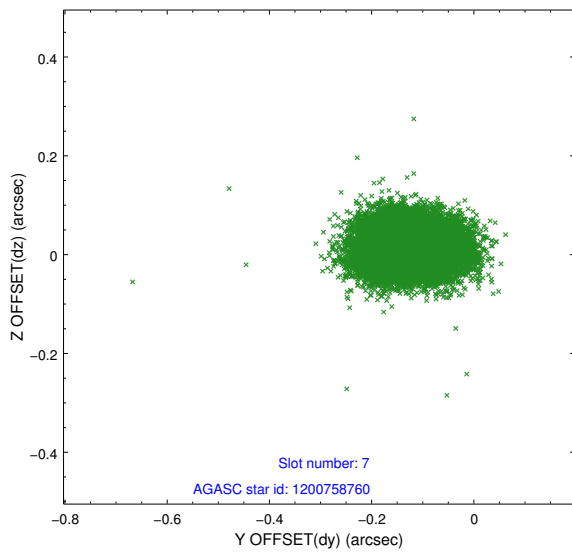
### 2.4.3 Slot 5



### 2.4.4 Slot 6

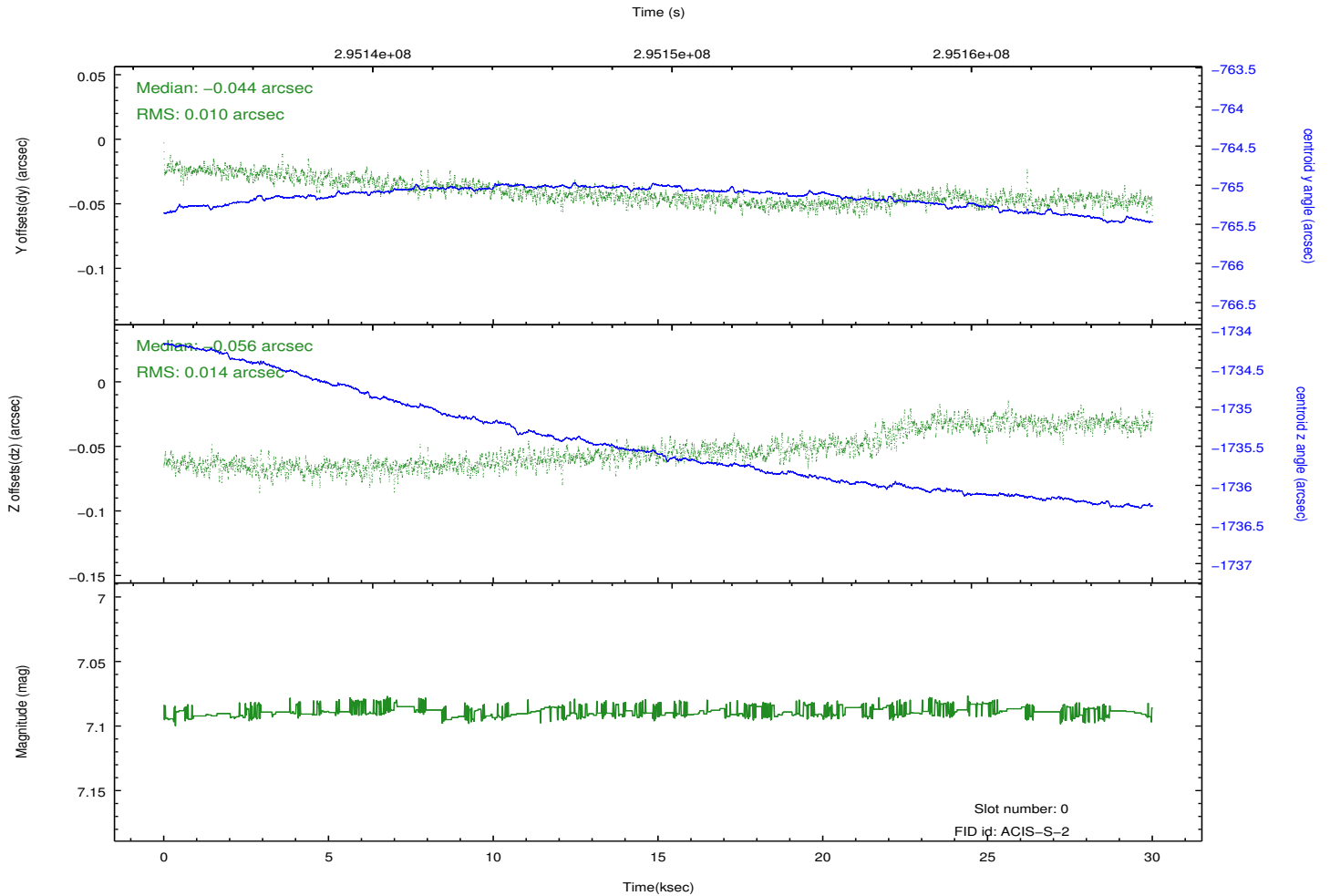
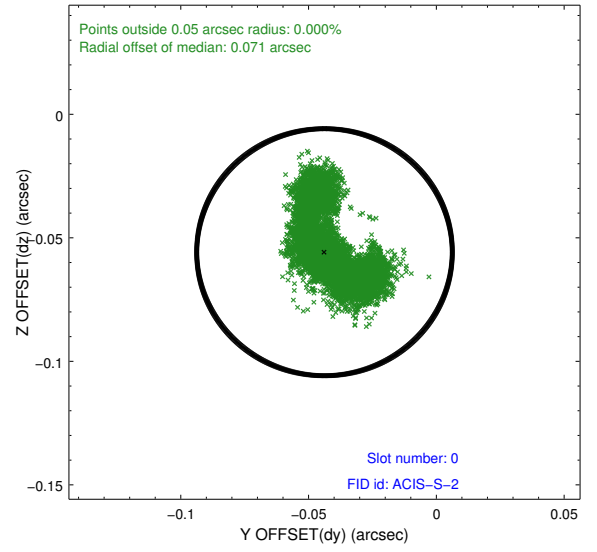
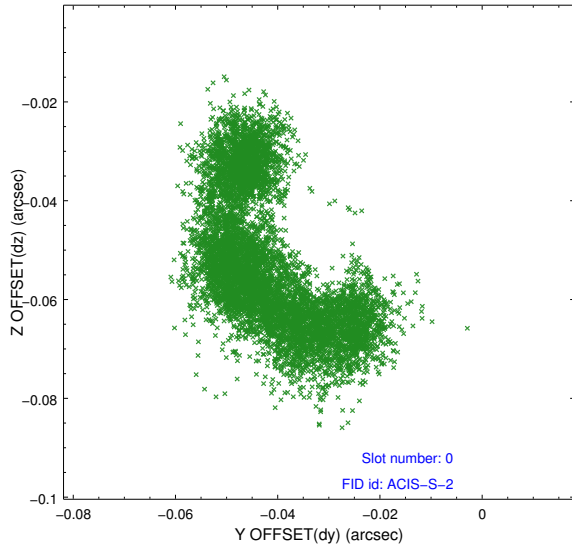


## 2.4.5 Slot 7

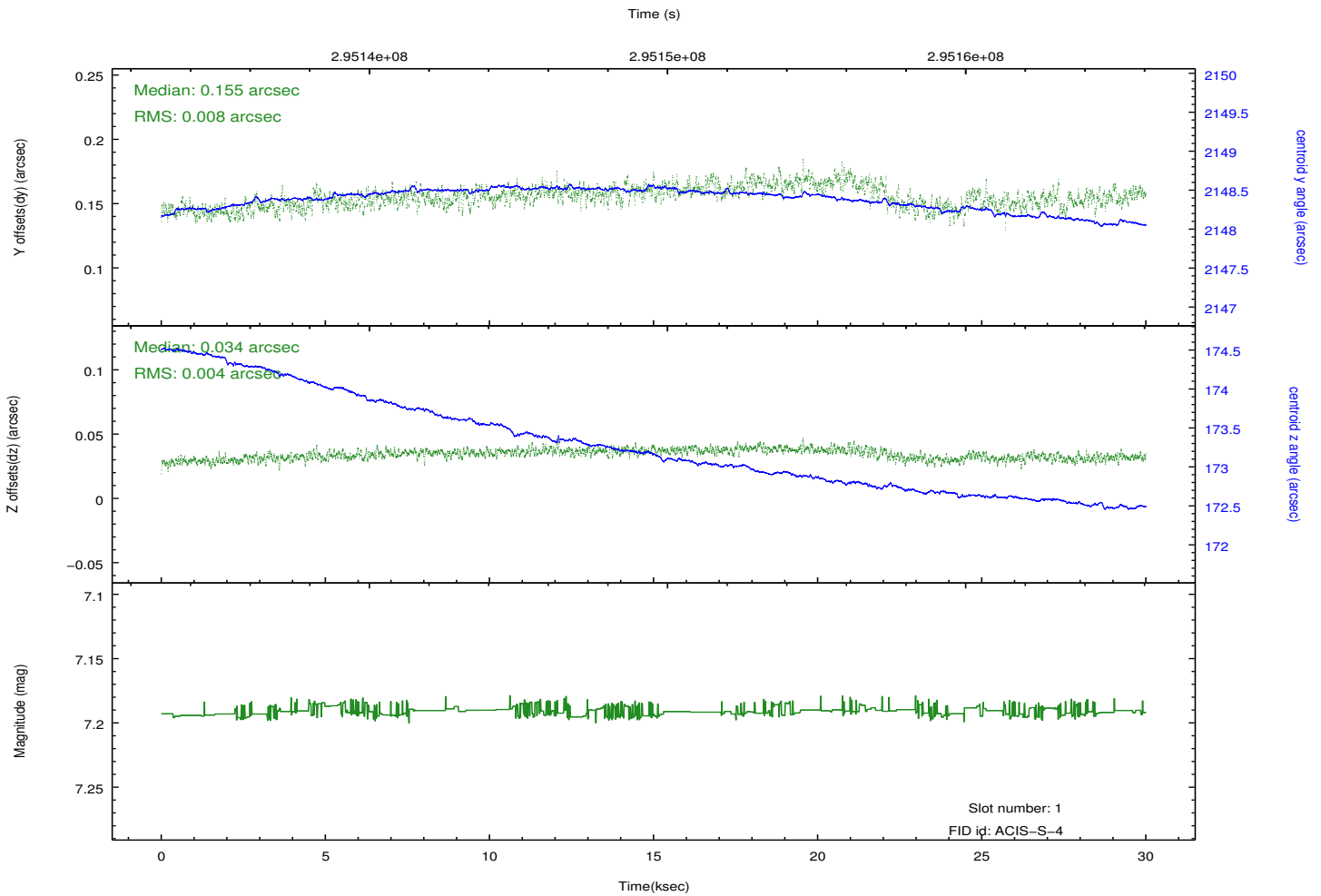
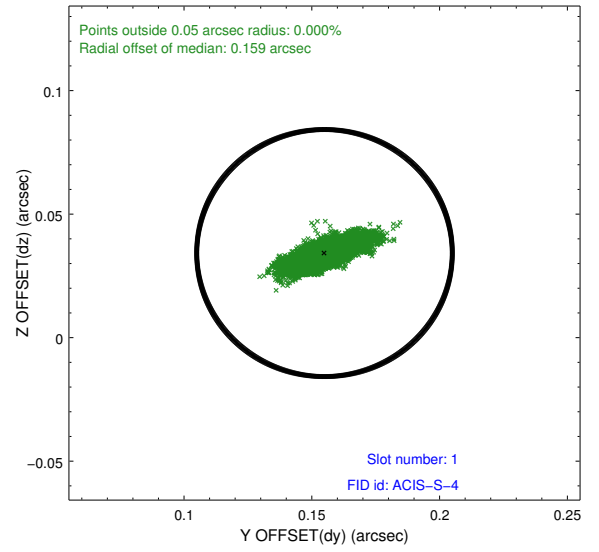
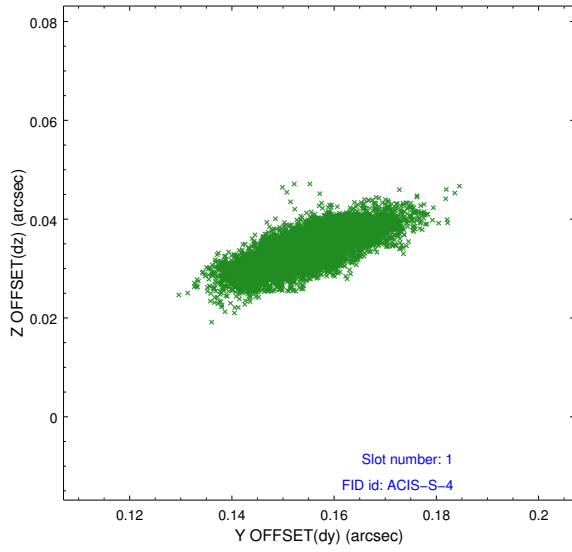


## 2.5 FID Slots

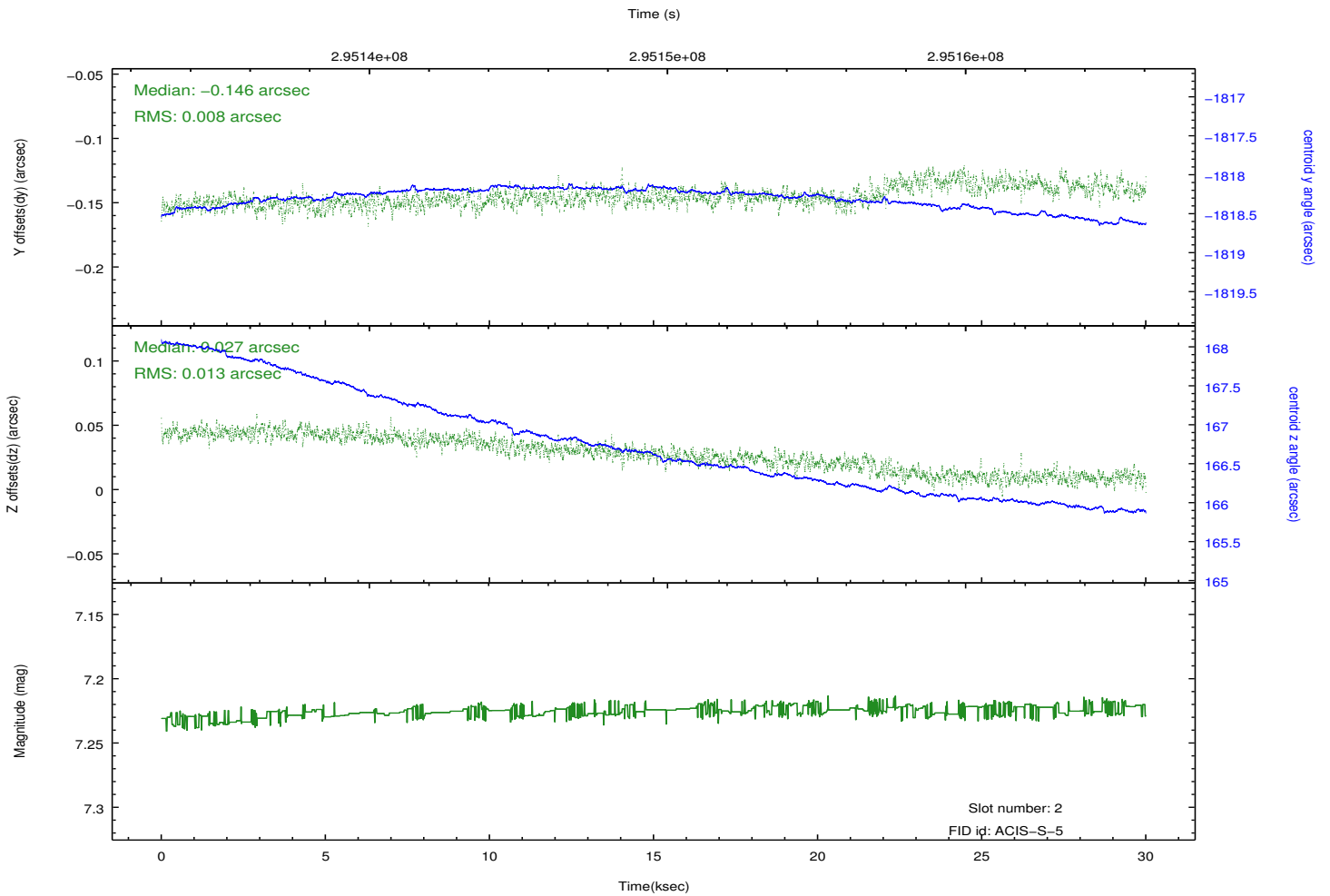
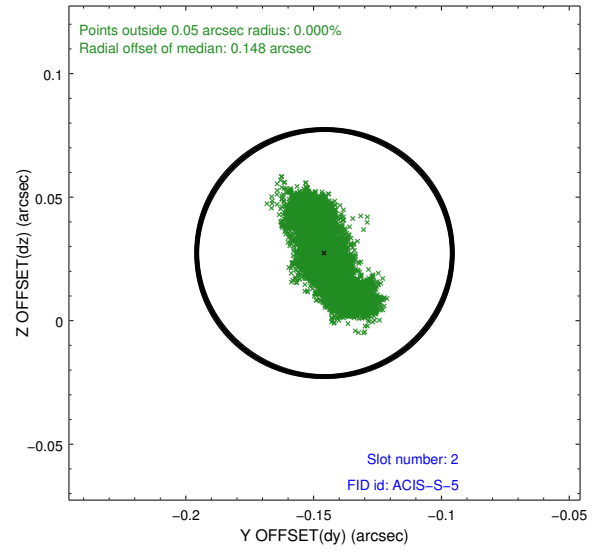
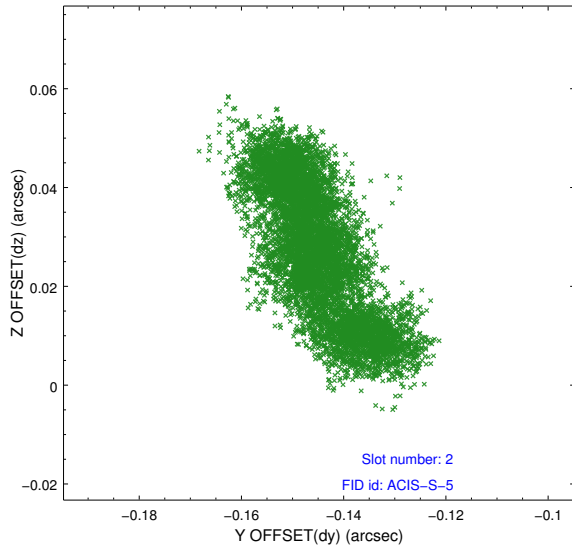
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.8463998

## A.2 Comments

Coordinated with HST. Roll preference met.