

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9498 - L2 Version 2  
Chandra X-Ray Center

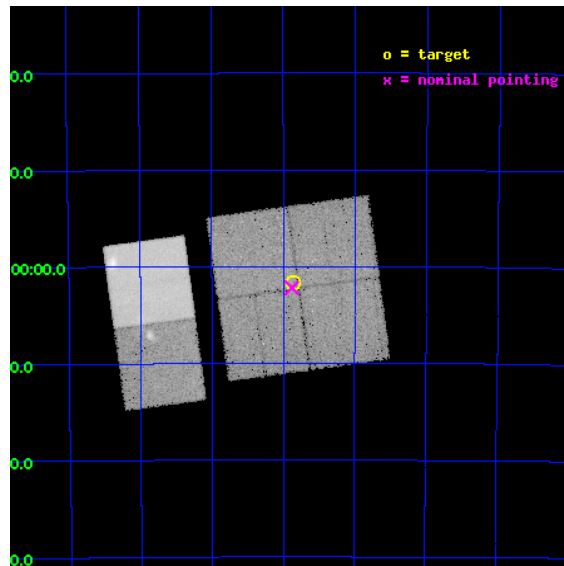
L2 Processing Date : May 15 2012

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# 1 Front

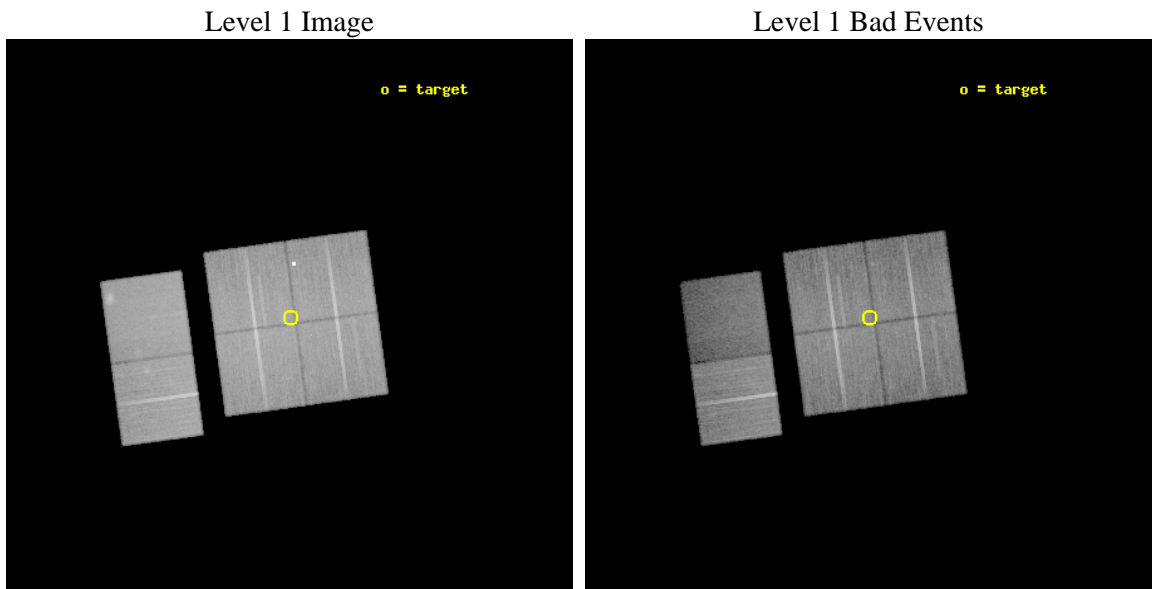
seq_num	900835	Sequence number
obs_id	9498	Observation id
title	The Great Nebula in Carina: Protoplanetary Disks to Starburst Galaxies	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	Carina Superbubble Ptg 3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.467083	Observer's specified target RA [deg]
dec_targ	-60.028806	Observer's specified target Dec [deg]
ra_nom	160.46975975891	Nominal RA [deg]
dec_nom	-60.036771301915	Nominal Dec [deg]
roll_nom	262.21101088743	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32075.312658191	Sum of GTIs [s]
liveltime	31669.155735878	Livetime [s]
ontime0	32075.189528227	Sum of GTIs [s]
ontime1	32071.989567995	Sum of GTIs [s]
ontime2	32075.271608233	Sum of GTIs [s]
ontime3	32075.312658191	Sum of GTIs [s]
ontime6	32078.635738432	Sum of GTIs [s]
ontime7	32078.594698429	Sum of GTIs [s]
l2events	254449	Number of level 2 events



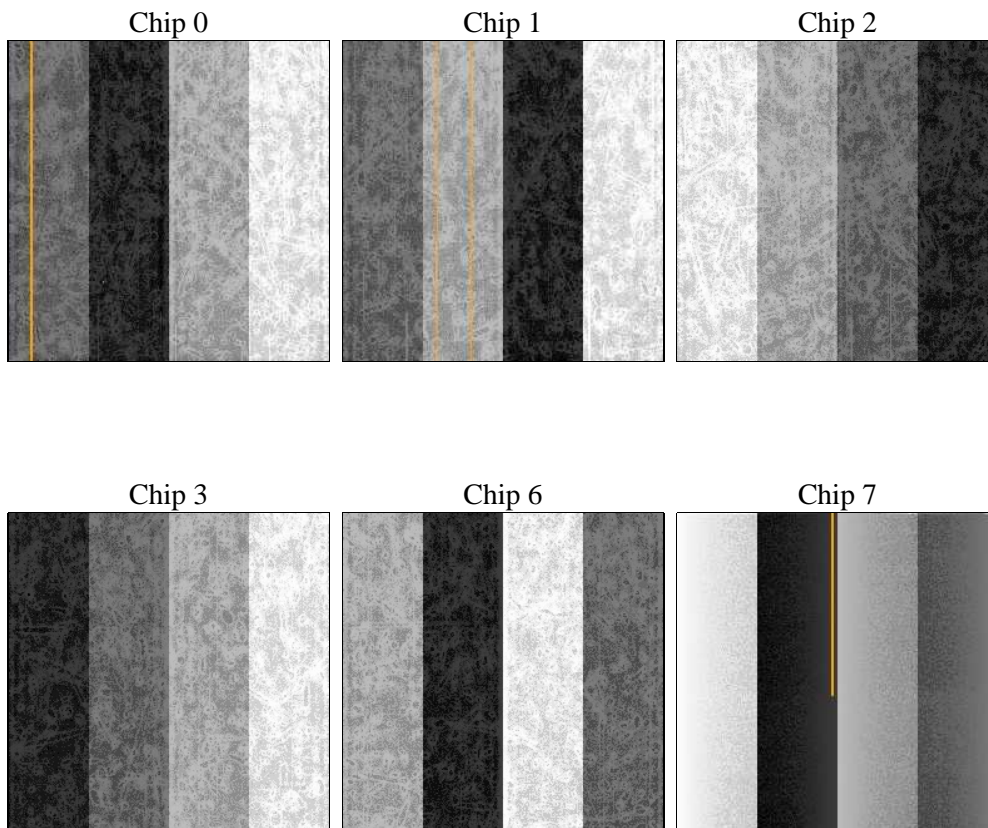
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	32034.080000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	32075.312658191	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	32075.189528227	Sum of GTIs [s]
date	2012-05-15T15:48:48	Date and time of file creation	ontime1	32071.989567995	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	32075.271608233	Sum of GTIs [s]
			ontime3	32075.312658191	Sum of GTIs [s]
			ontime6	32078.635738432	Sum of GTIs [s]
			ontime7	32078.594698429	Sum of GTIs [s]
			l1events	1429911	Number of level 1 events

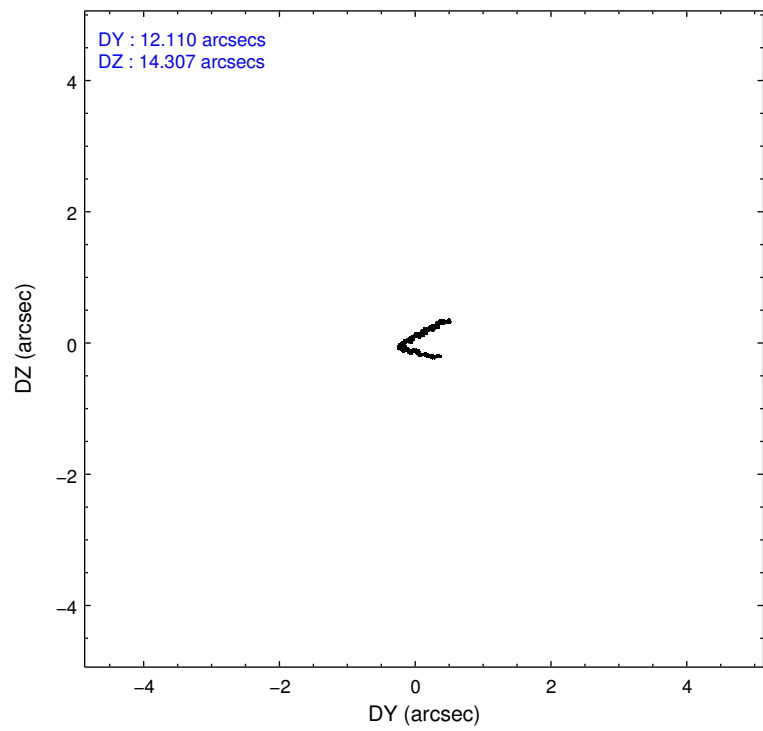
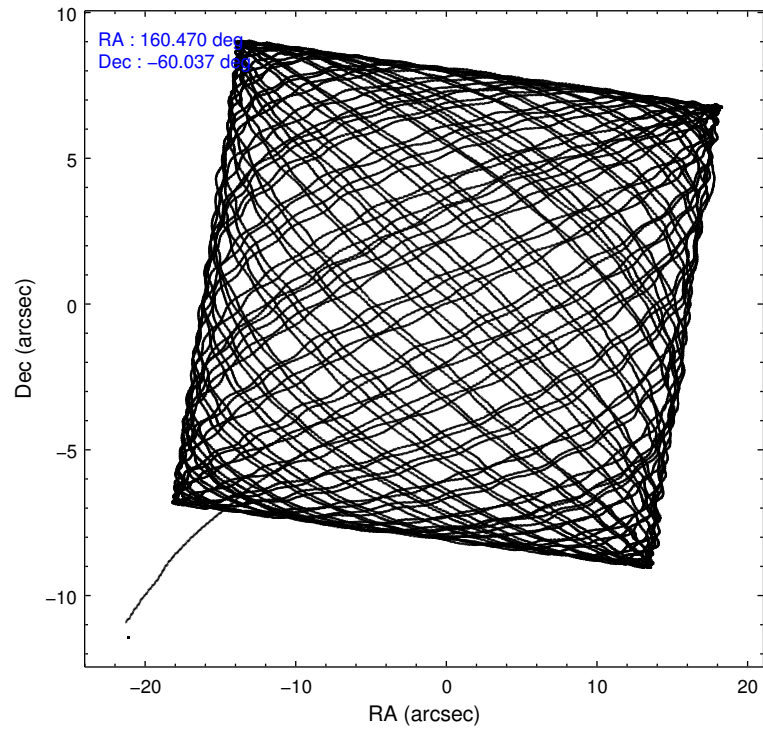
### 2.1.4 Events

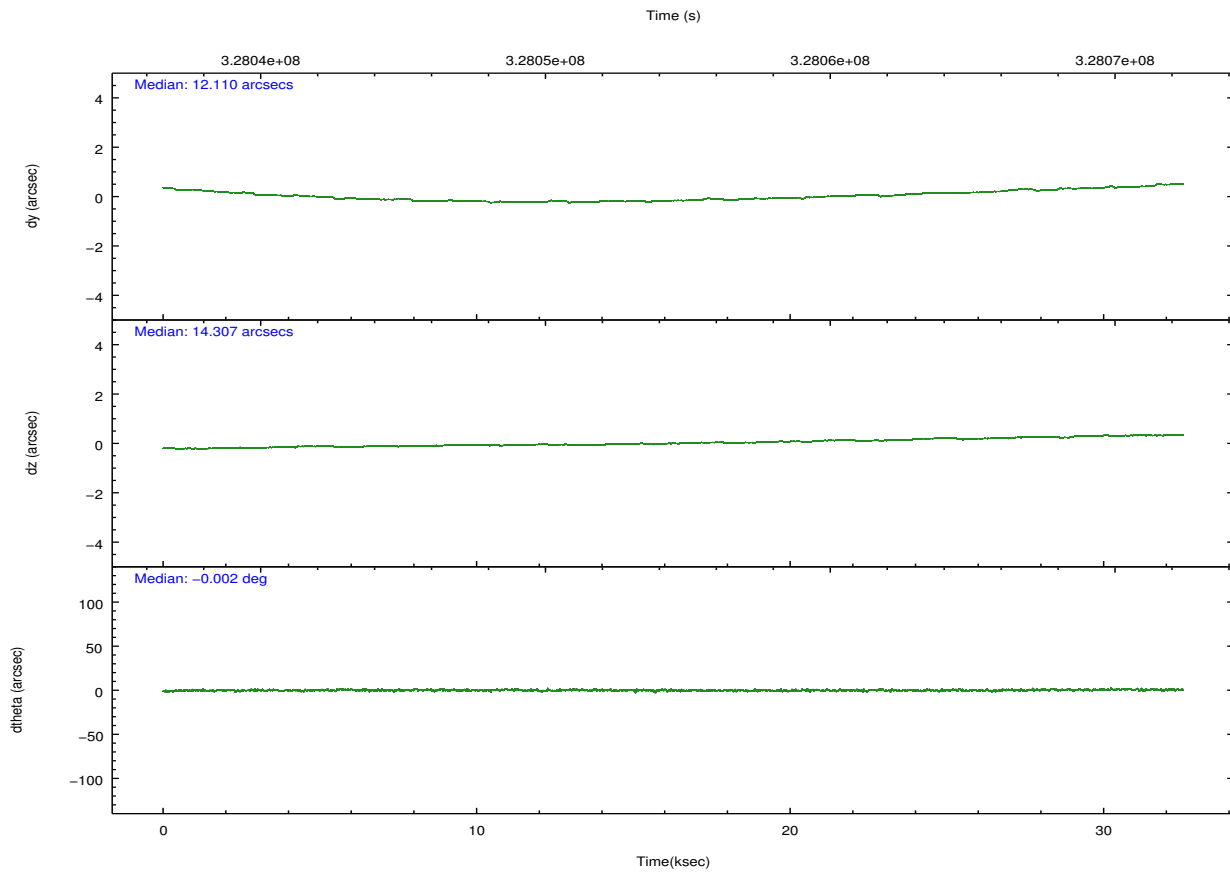
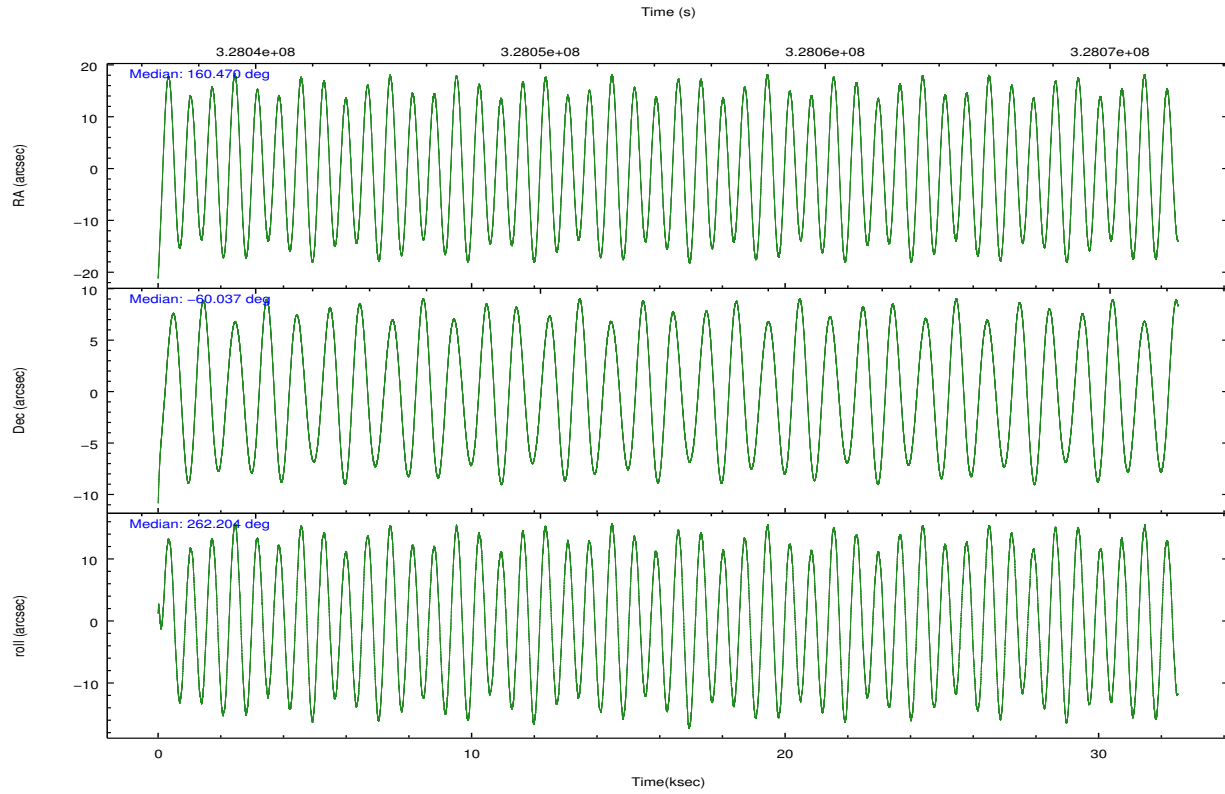
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	220336	229717	245918	236552	250860	246528	grade 0 events	13662	23025	13478	15507	14711	18461
rejected events	191233	190355	217823	206481	220006	114220		6%	10%	5%	6%	5%	7%
rejected %	86%	82%	88%	87%	87%	46%	grade 1 events	154	207	151	179	160	373
								0%	0%	0%	0%	0%	0%
							grade 2 events	6056	5897	5760	5265	6046	29535
								2%	2%	2%	2%	2%	11%
							grade 3 events	2581	2782	2426	2584	2607	12863
								1%	1%	0%	1%	1%	5%
							grade 4 events	2547	2830	2423	2529	2582	13012
								1%	1%	0%	1%	1%	5%
							grade 5 events	6814	7934	6472	8076	8491	24329
								3%	3%	2%	3%	3%	9%
							grade 6 events	4261	4832	4011	4191	4912	58447
								1%	2%	1%	1%	1%	23%
							grade 7 events	184261	182210	211197	198221	211351	89508
								83%	79%	85%	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	160.4697597589064	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.011372	-60.03677130191463	CCD I3 on	Y	Y
[deg] Pointing Roll	261.984128	262.2110108874292	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)	328038704.184000	328037543.44822	CCD S5 on	N	N
Observation start date	2008-05-24T17:50:39	2008-05-24T17:32:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	328070738.184000	328070970.74986	On-chip summing requested	N	N
Observation end date	2008-05-25T02:44:33	2008-05-25T02:49:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



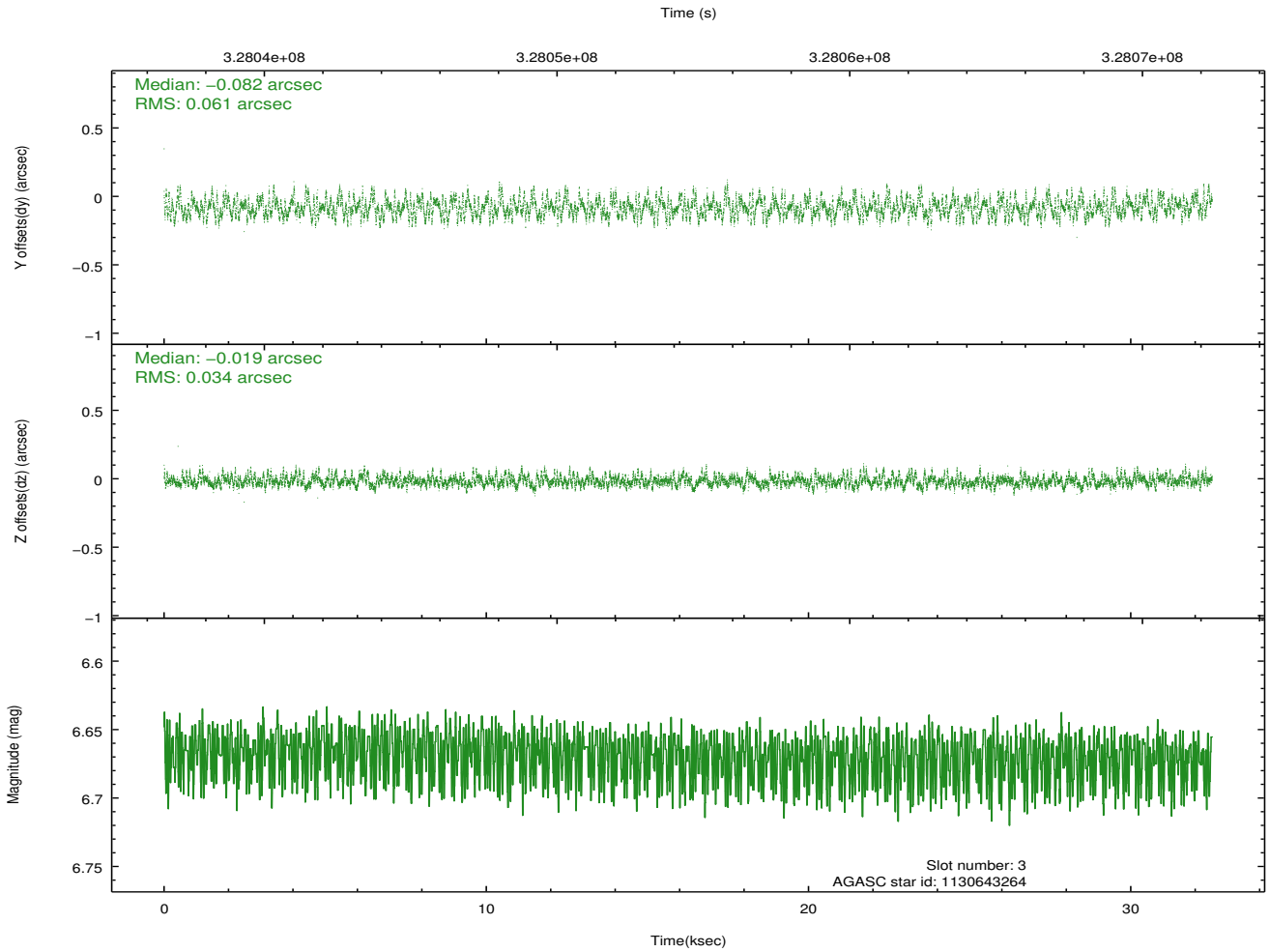
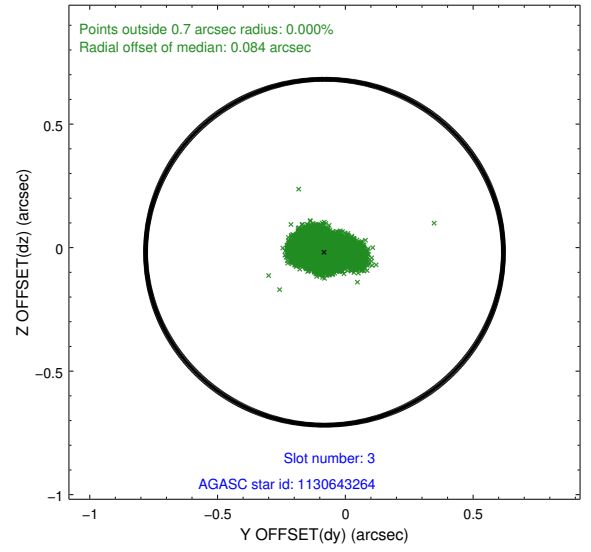
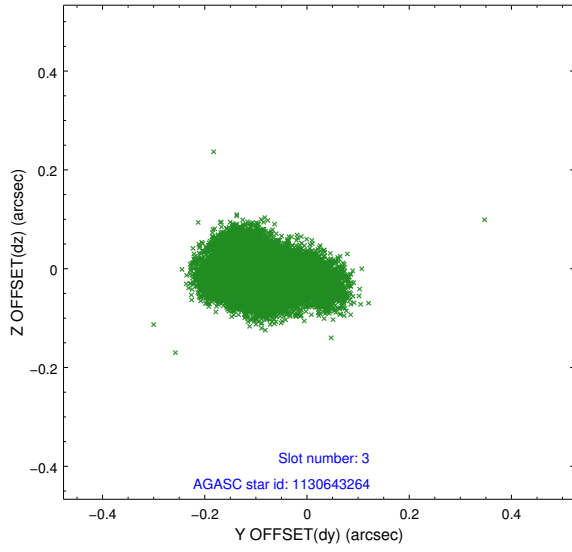


### Slot Statistics

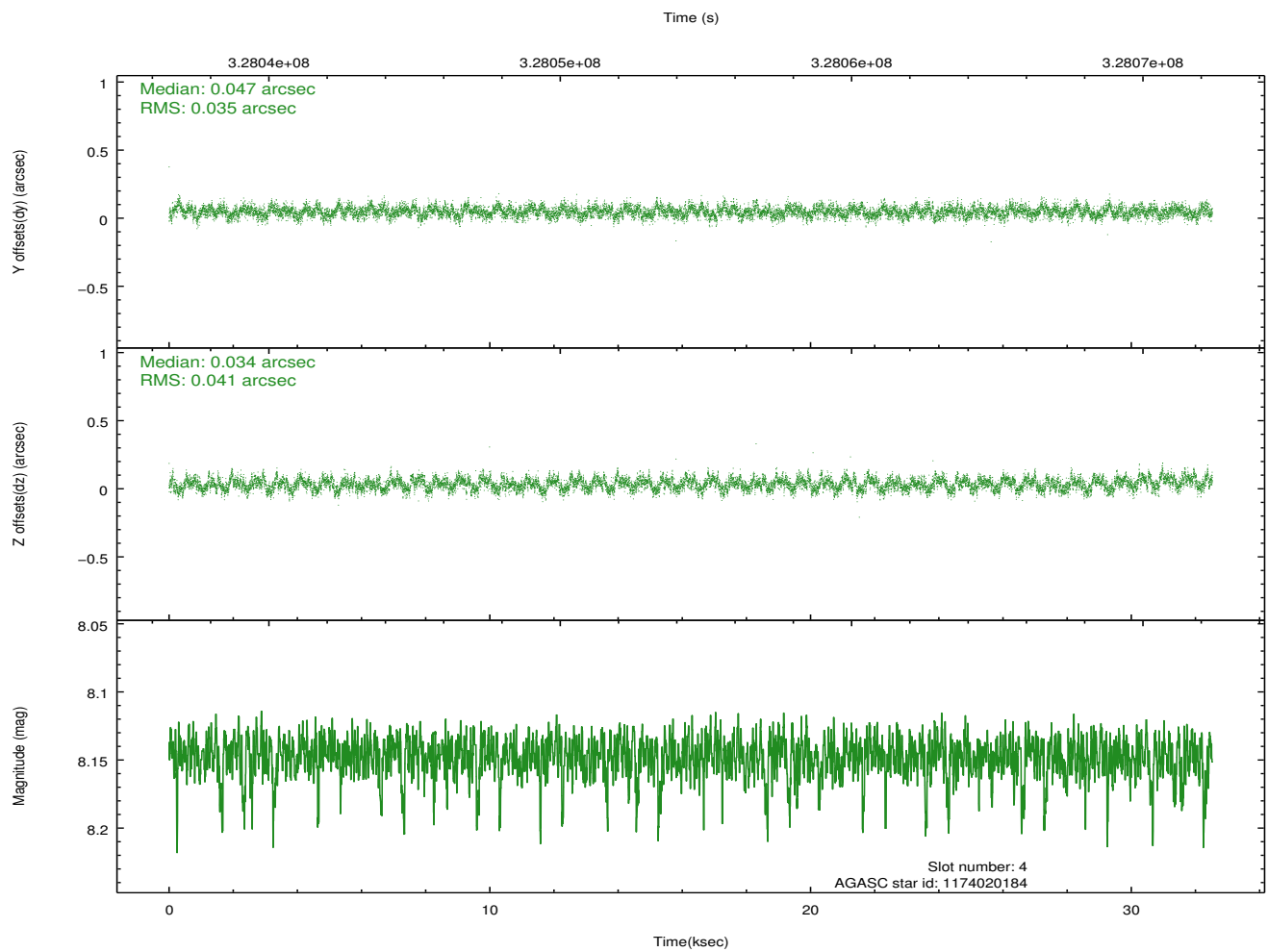
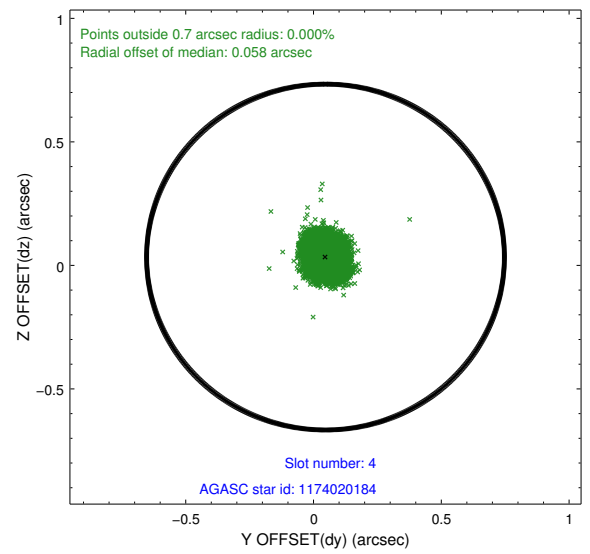
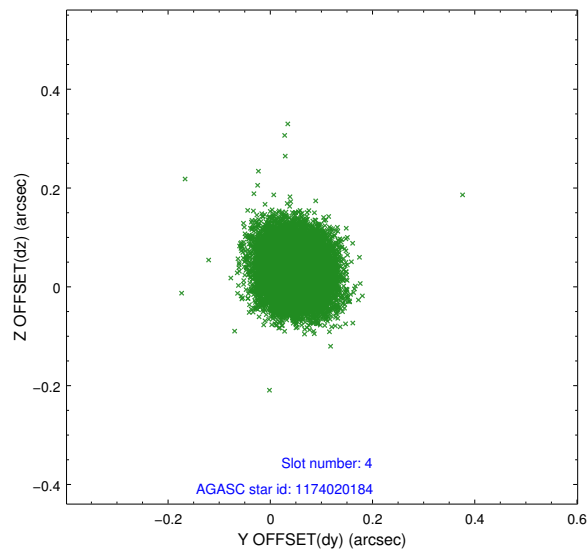
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.07	7934	-0.027	0.078	0.010	0.017	0.000000	0.000000	927.37	-837.84
1	FID	ACIS-I-2	6.98	7933	-0.090	-0.076	0.009	0.015	0.000000	0.000000	-766.75	-844.47
2	FID	ACIS-I-6	7.07	7933	0.025	0.063	0.011	0.022	0.000000	0.000000	393.03	1703.93
3	GUIDE	1130643264	6.67	15868	-0.082	-0.019	0.076	0.120	160.322990	-59.676912	-1159.89	-394.24
4	GUIDE	1174020184	8.15	15859	0.047	0.034	0.057	0.092	159.502388	-60.147833	735.57	-1608.87
5	GUIDE	1174020200	8.31	15866	-0.024	-0.051	0.062	0.101	160.489138	-60.487295	1686.95	310.06
6	GUIDE	1174021440	8.39	15863	0.109	-0.032	0.063	0.101	160.869011	-60.314711	979.45	894.49
7	GUIDE	1174027824	9.13	15854	-0.050	0.067	0.102	0.160	161.465908	-60.192420	405.50	1895.31

## 2.4 Star Slots

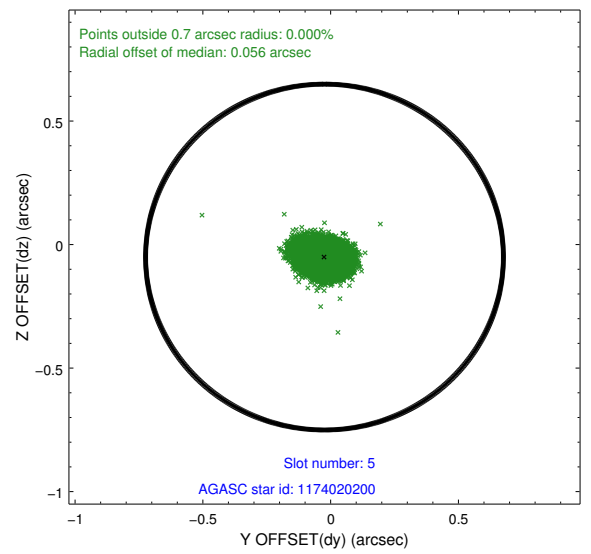
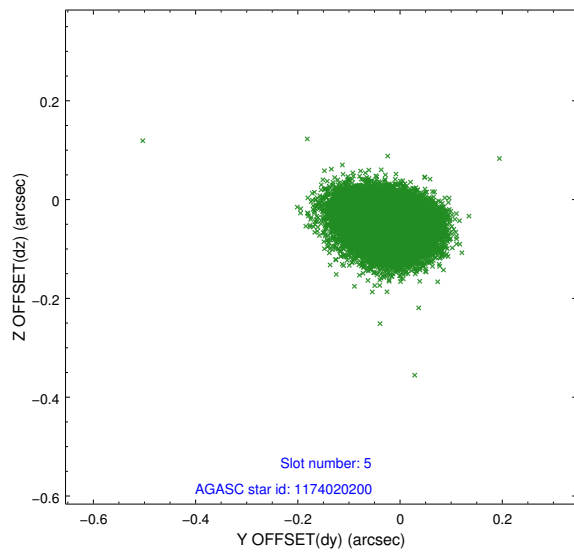
### 2.4.1 Slot 3



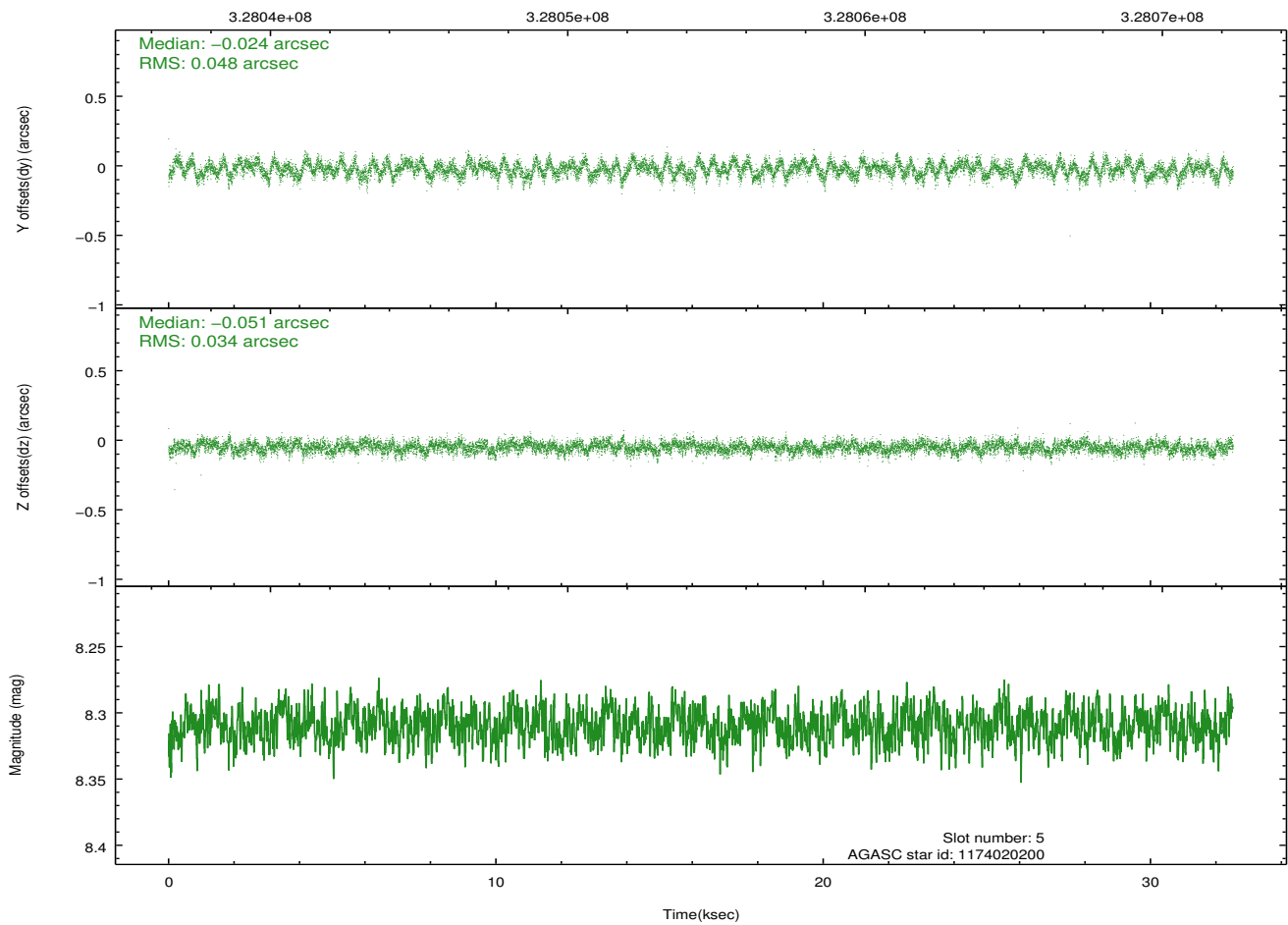
## 2.4.2 Slot 4



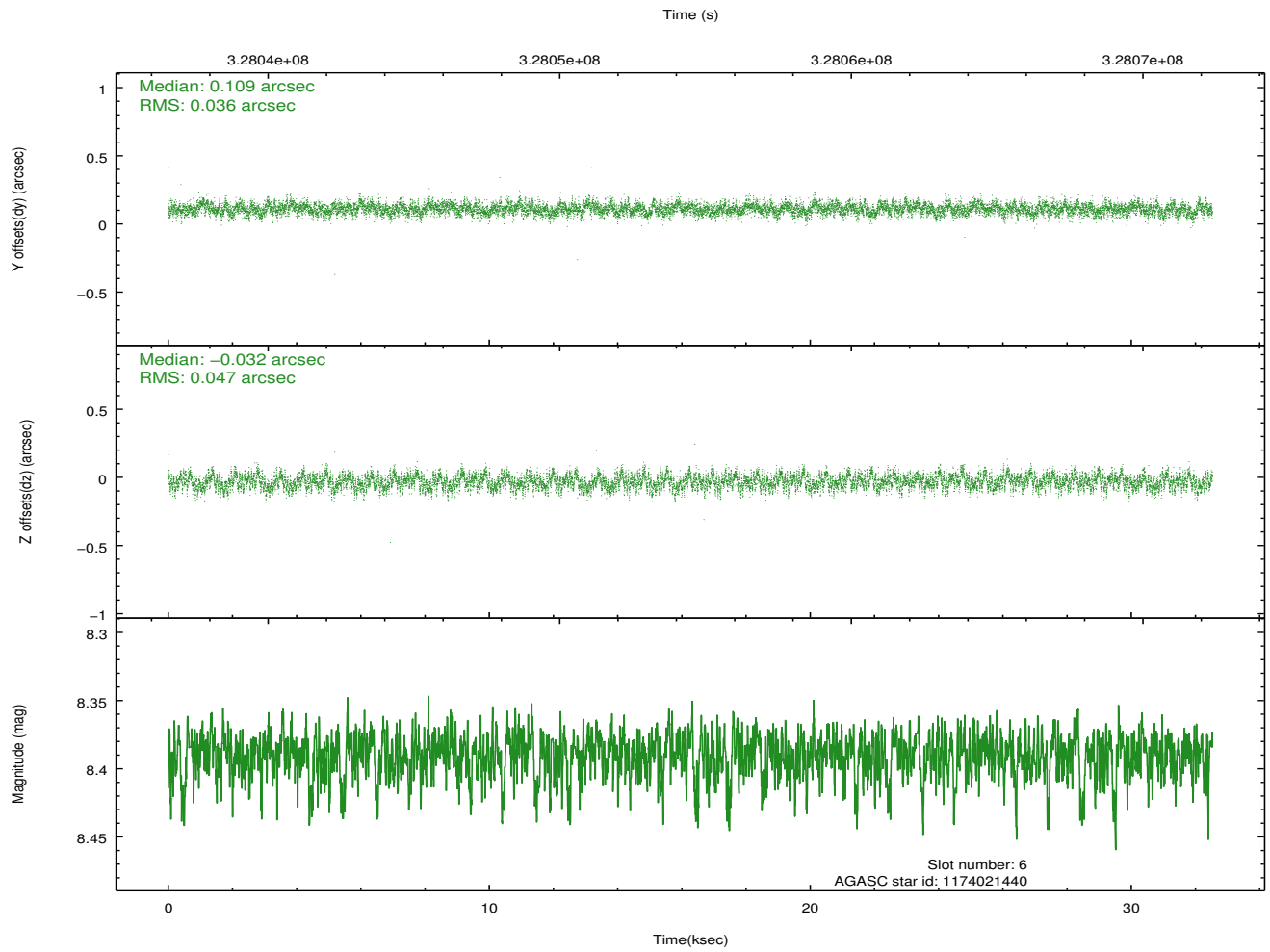
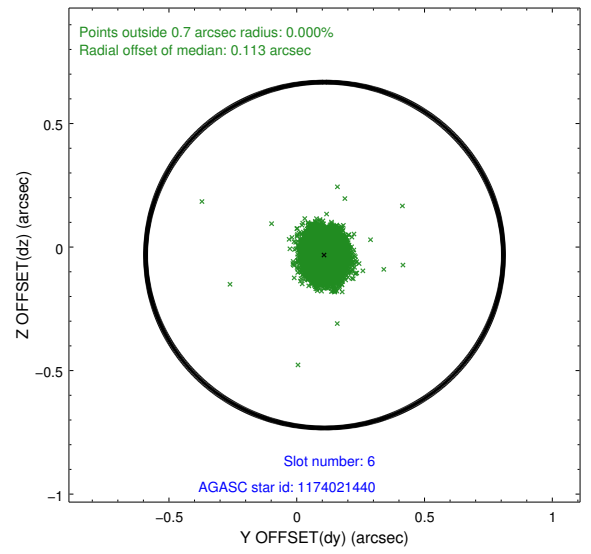
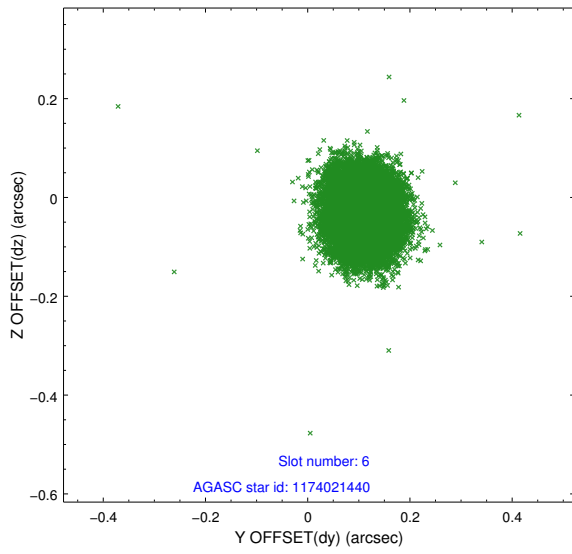
### 2.4.3 Slot 5



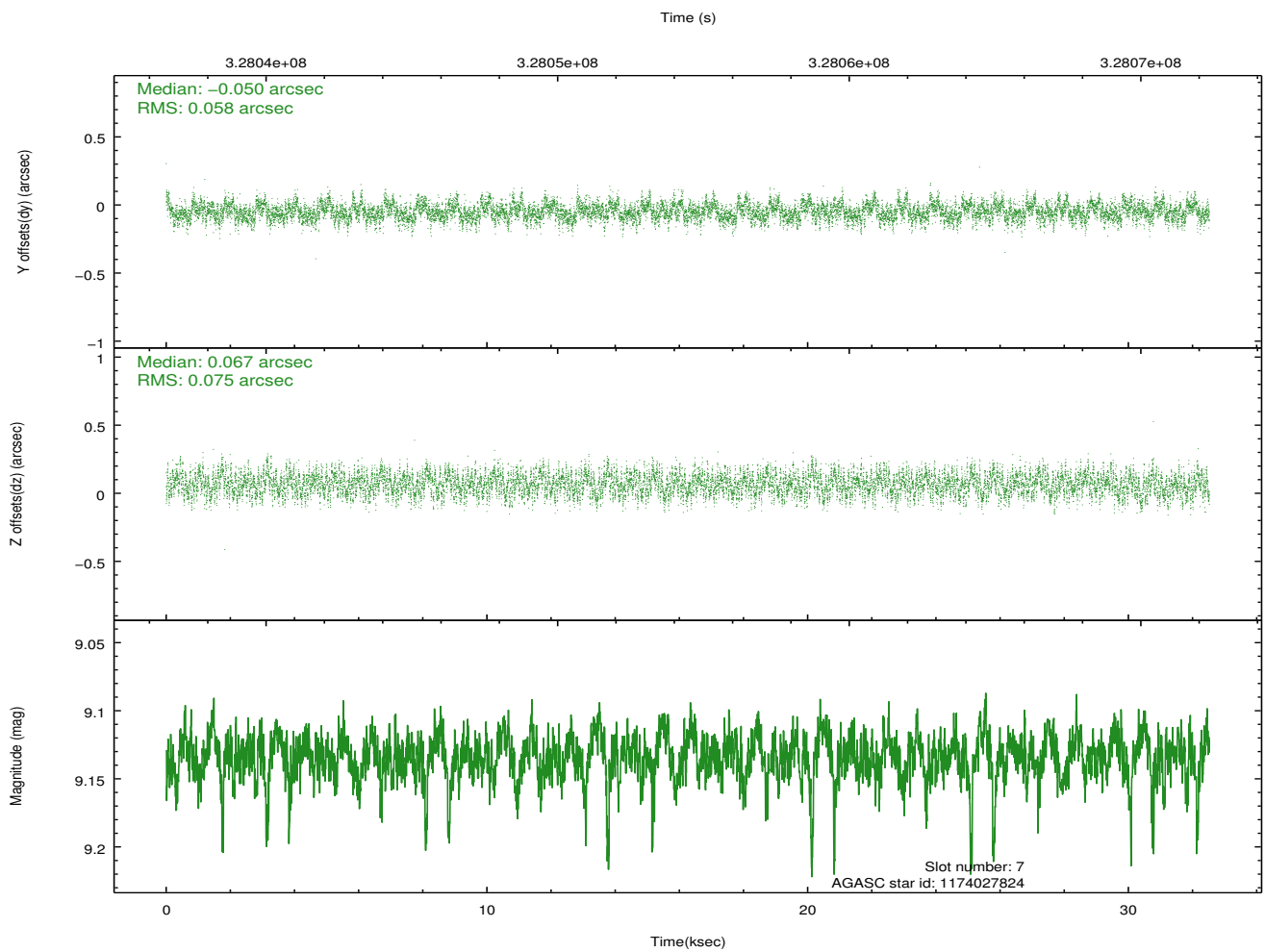
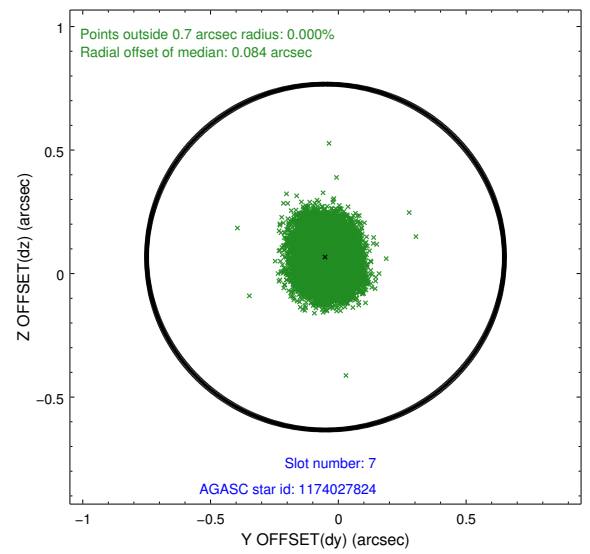
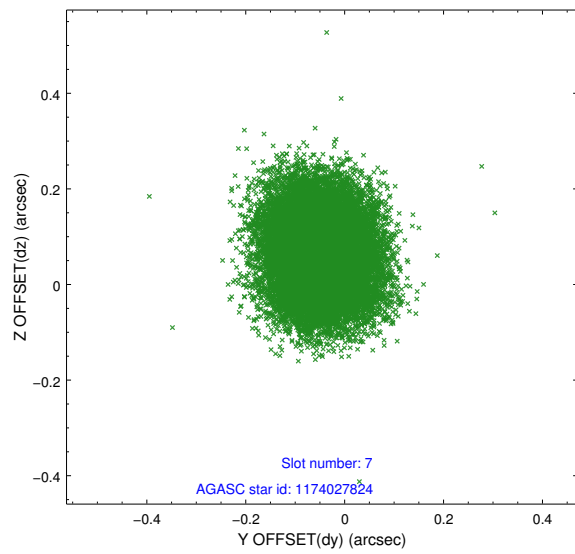
Time (s)



## 2.4.4 Slot 6

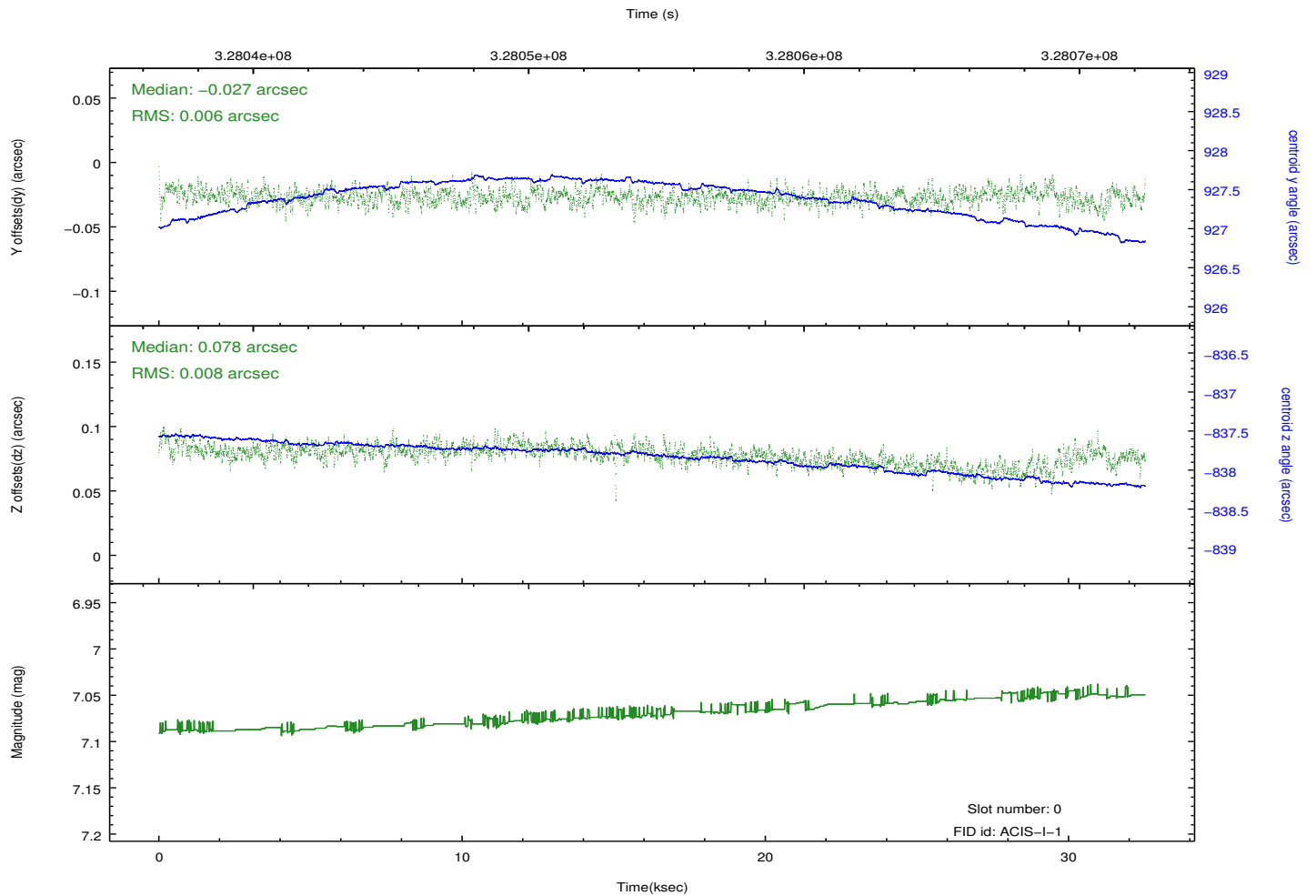
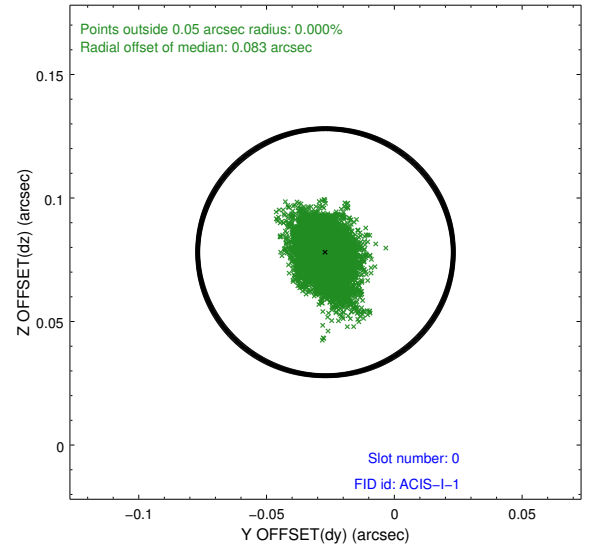
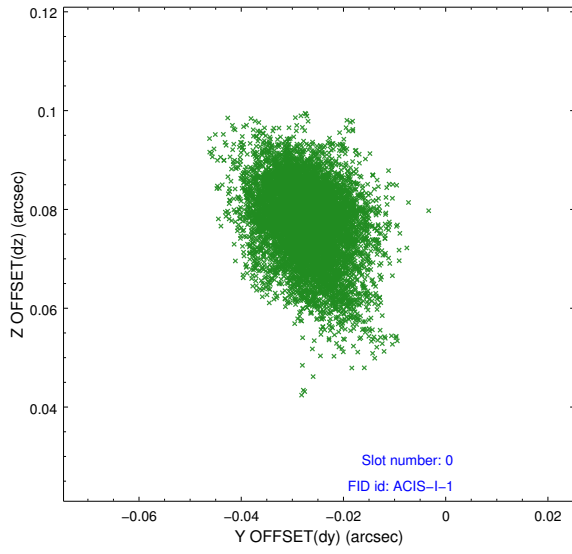


## 2.4.5 Slot 7

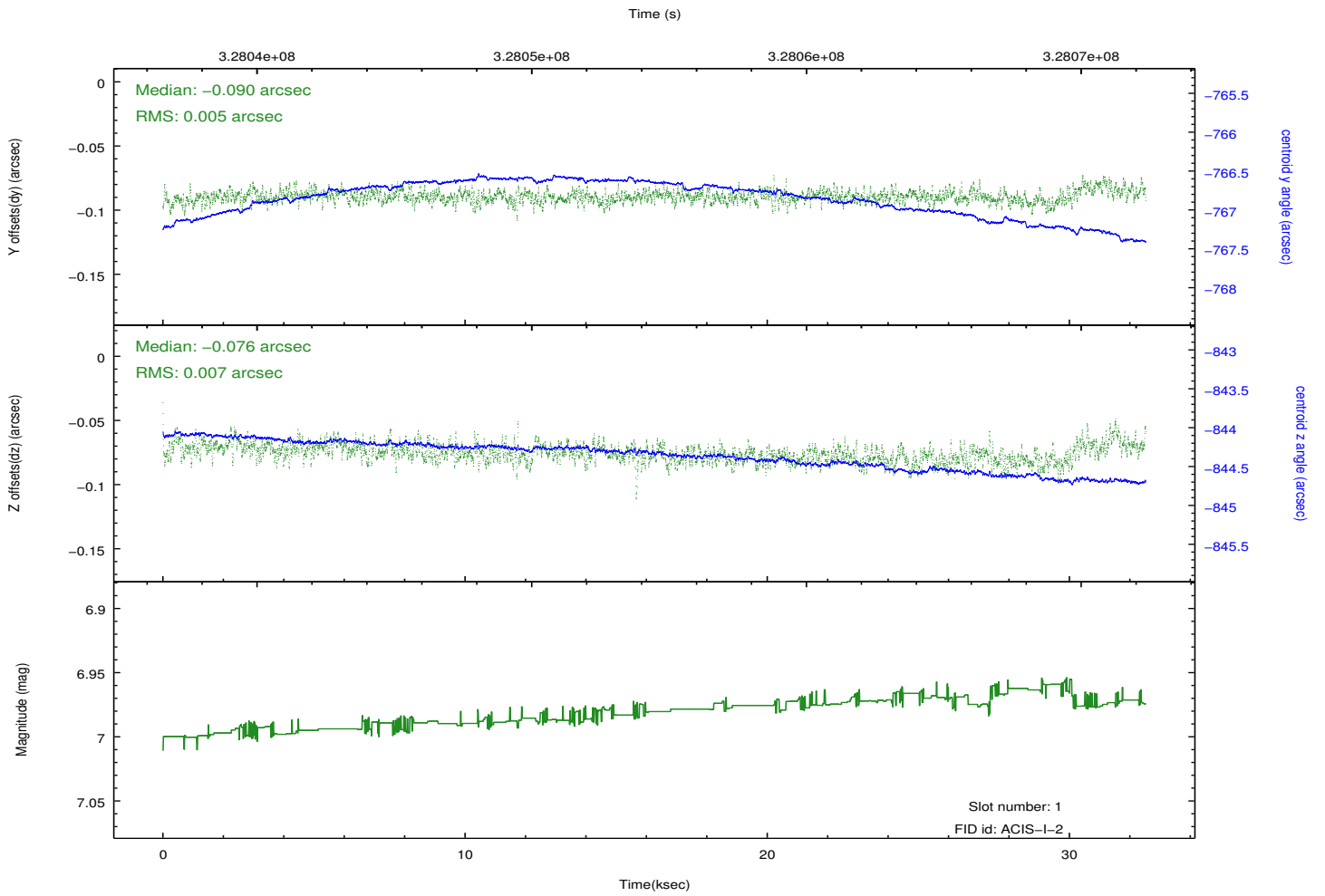
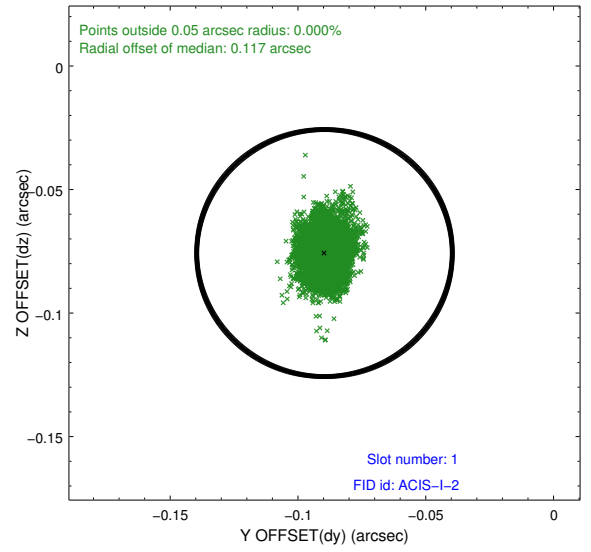
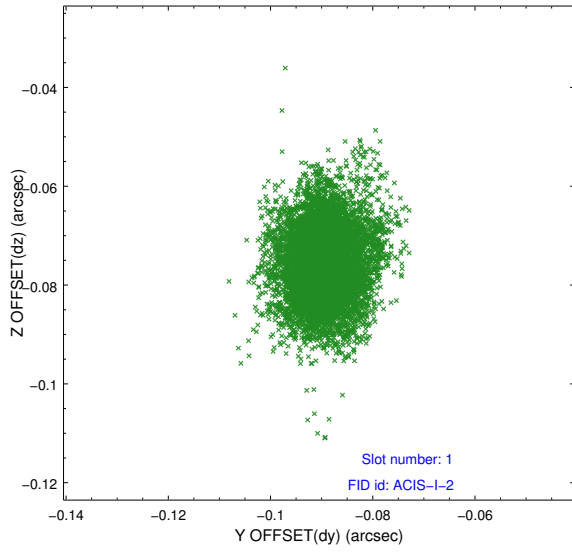


## 2.5 FID Slots

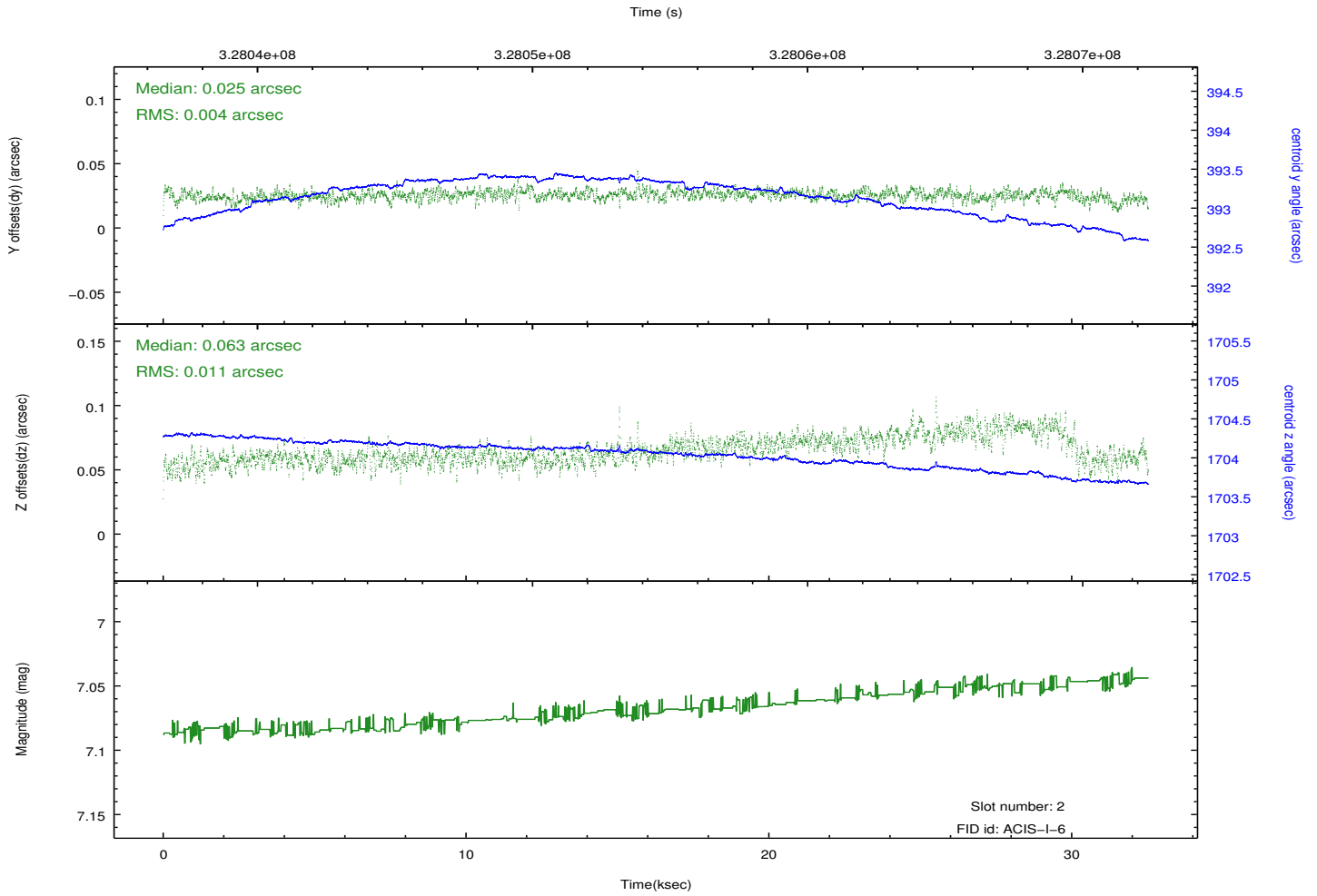
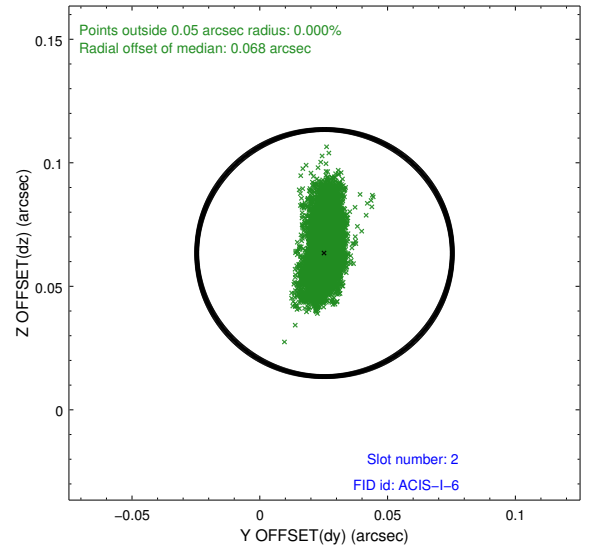
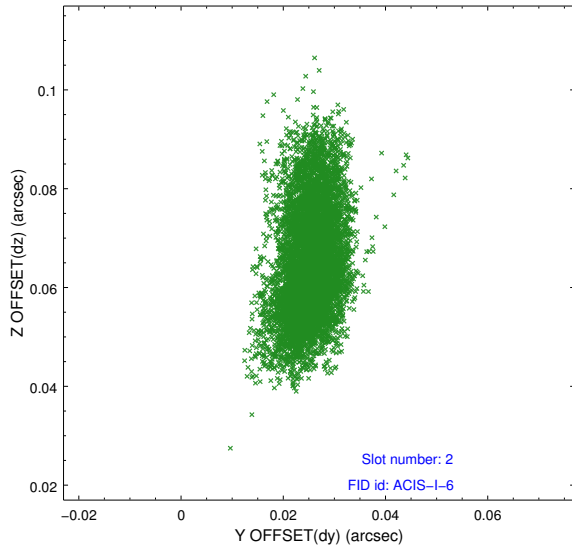
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.0767588

## A.2 Comments