

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8892 - L2 Version 2  
Chandra X-Ray Center

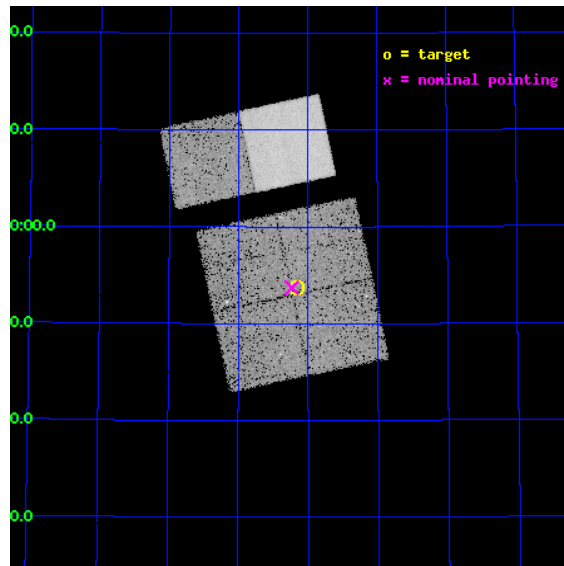
L2 Processing Date : May 11 2012

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# 1 Front

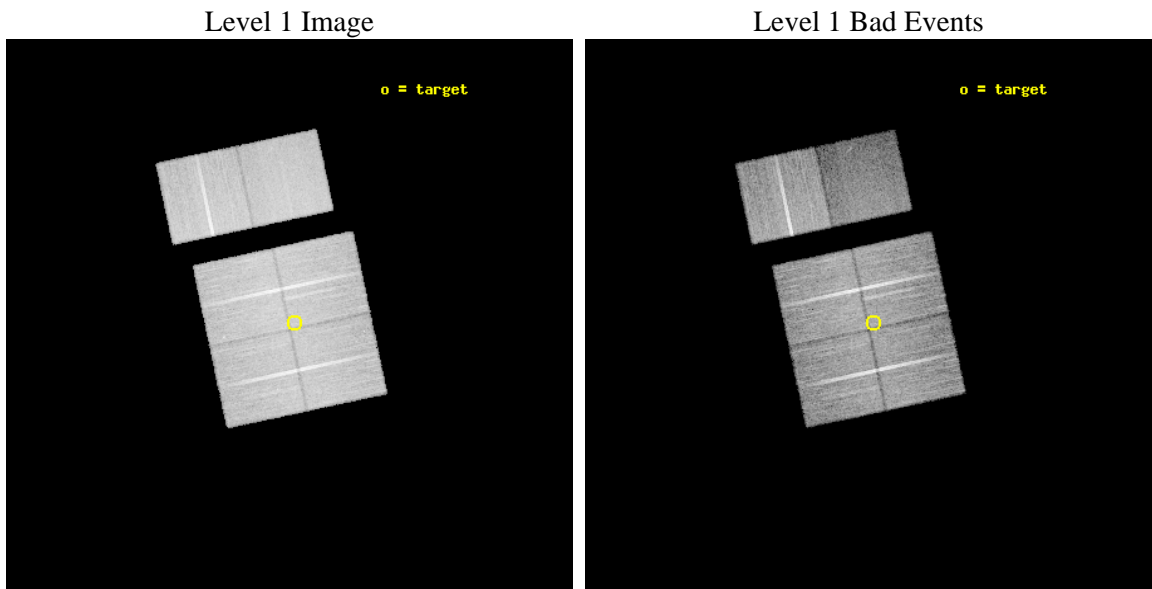
seq_num	200473	Sequence number
obs_id	8892	Observation id
title	Search for triggered star formation in the unique bright rimmed cloud 4	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	BRC4	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	14.791667	Observer's specified target RA [deg]
dec_targ	60.894444	Observer's specified target Dec [deg]
ra_nom	14.808222264942	Nominal RA [deg]
dec_nom	60.895186869315	Nominal Dec [deg]
roll_nom	347.97420248695	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20037.113219321	Sum of GTIs [s]
liveltime	19783.391226837	Livetime [s]
ontime0	20040.230970144	Sum of GTIs [s]
ontime1	20037.031009972	Sum of GTIs [s]
ontime2	20033.831238925	Sum of GTIs [s]
ontime3	20037.113219321	Sum of GTIs [s]
ontime6	20037.195179999	Sum of GTIs [s]
ontime7	20040.395130157	Sum of GTIs [s]
l2events	129238	Number of level 2 events



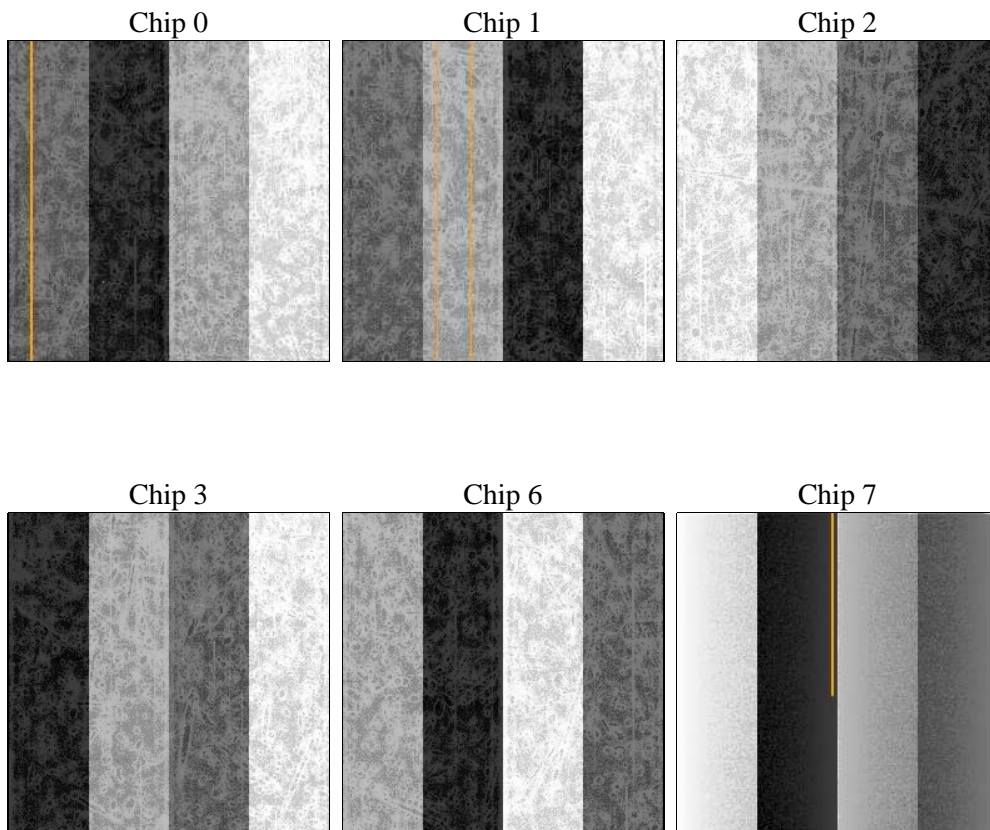
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.012000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20037.113219321	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	20040.230970144	Sum of GTIs [s]
date	2012-05-12T00:55:09	Date and time of file creation	ontime1	20037.031009972	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20033.831238925	Sum of GTIs [s]
			ontime3	20037.113219321	Sum of GTIs [s]
			ontime6	20037.195179999	Sum of GTIs [s]
			ontime7	20040.395130157	Sum of GTIs [s]
			l1events	882826	Number of level 1 events

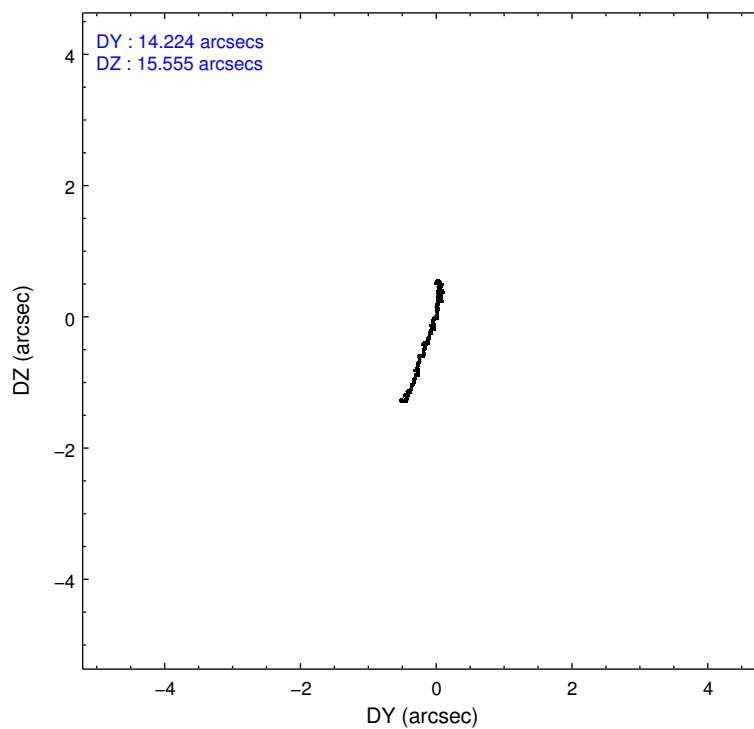
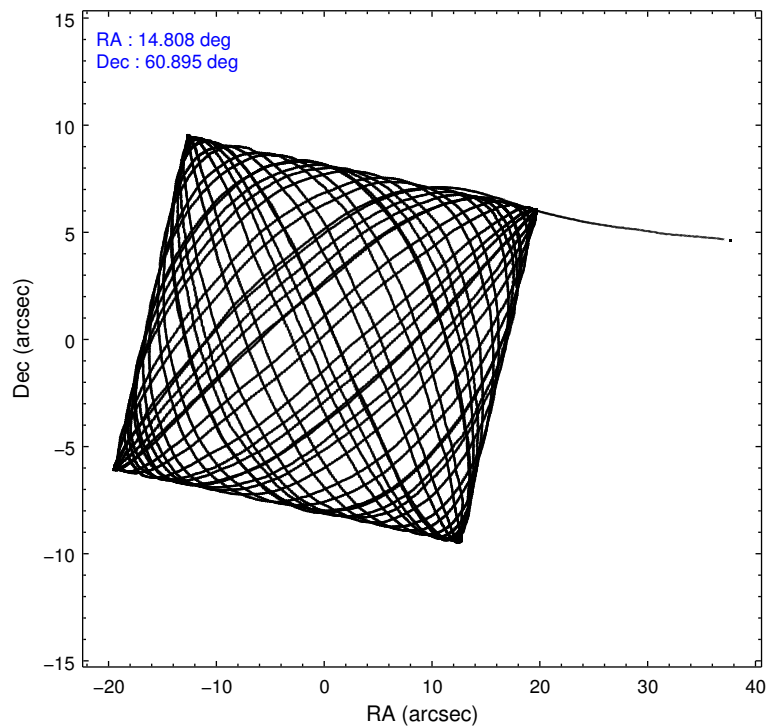
### 2.1.4 Events

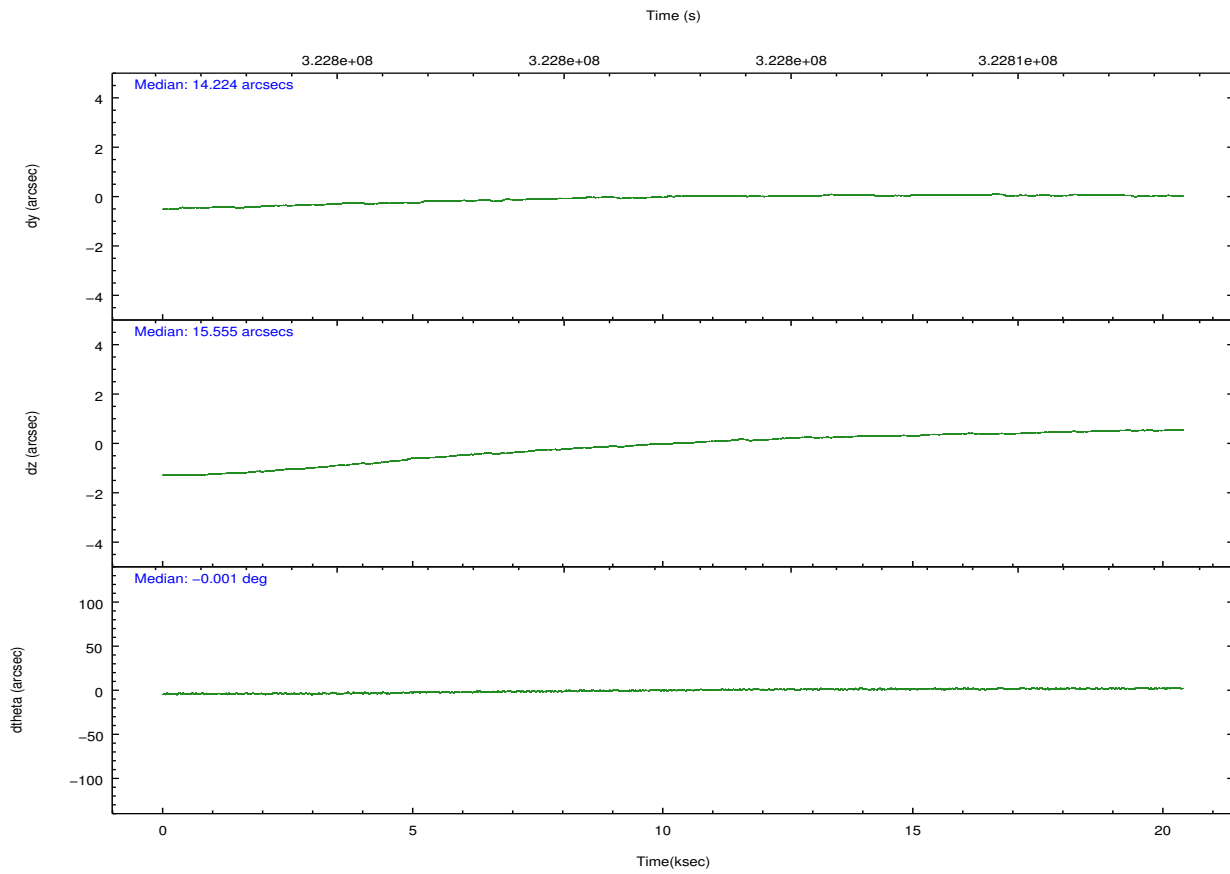
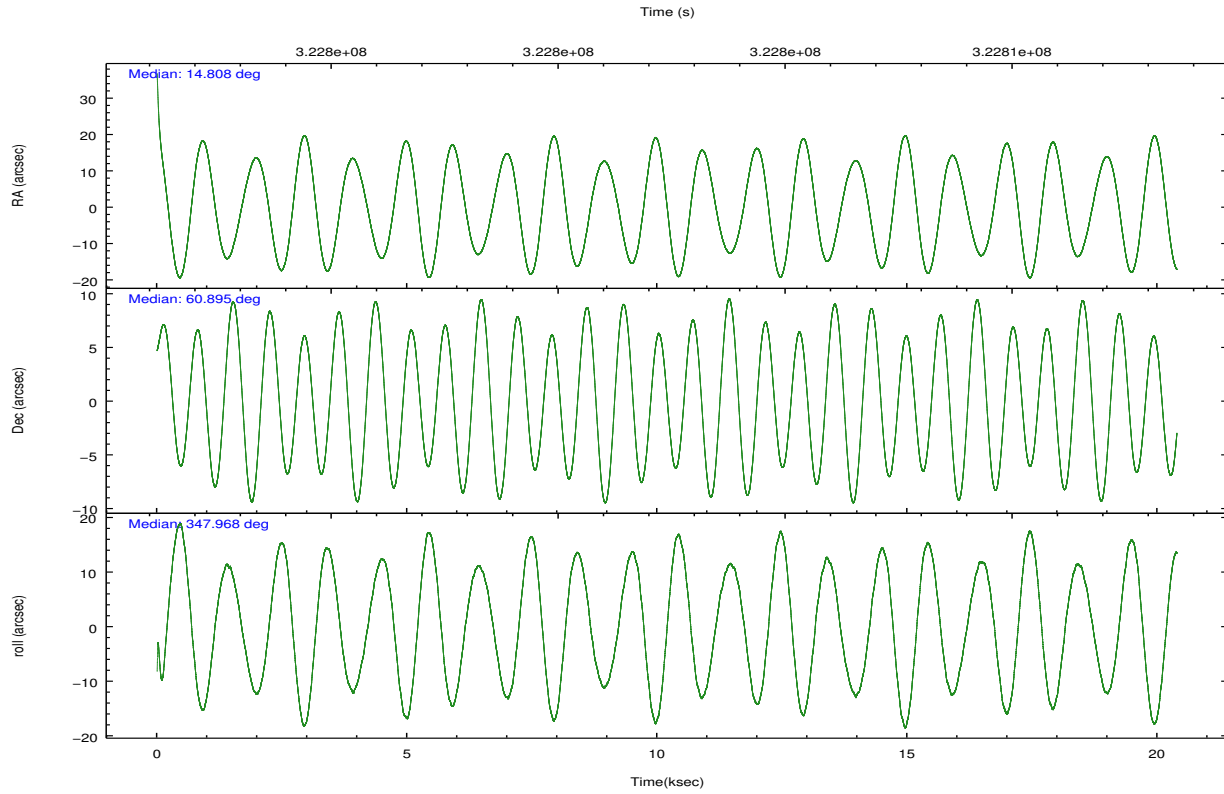
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	139687	137358	158909	149687	153681	143504	grade 0 events	5461	5353	5392	5013	5557	7128
rejected events	124919	121869	144366	135810	138090	73093		3%	3%	3%	3%	3%	4%
rejected %	89%	88%	90%	90%	89%	50%	grade 1 events	78	69	79	90	80	243
								0%	0%	0%	0%	0%	0%
							grade 2 events	3586	3470	3495	3022	3511	14952
								2%	2%	2%	2%	2%	10%
							grade 3 events	1587	1771	1581	1572	1671	6594
								1%	1%	0%	1%	1%	4%
							grade 4 events	1526	1749	1548	1534	1678	6559
								1%	1%	0%	1%	1%	4%
							grade 5 events	4412	5076	4284	5116	5226	15597
								3%	3%	2%	3%	3%	10%
							grade 6 events	2613	3151	2533	2739	3179	35211
								1%	2%	1%	1%	2%	24%
							grade 7 events	120424	116719	139997	130601	132779	57220
								86%	84%	88%	87%	86%	39%

## 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	14.754535	14.80822226494203	CCD I2 on	Y	Y
[deg] Pointing Dec	60.886588	60.89518686931459	CCD I3 on	Y	Y
[deg] Pointing Roll	347.812406	347.9742024869464	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)	322792593.184000	322791477.88017	CCD S5 on	N	N
Observation start date	2008-03-25T00:35:28	2008-03-25T00:17:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	322812593.184000	322812830.68121	On-chip summing requested	N	N
Observation end date	2008-03-25T06:08:48	2008-03-25T06:13:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



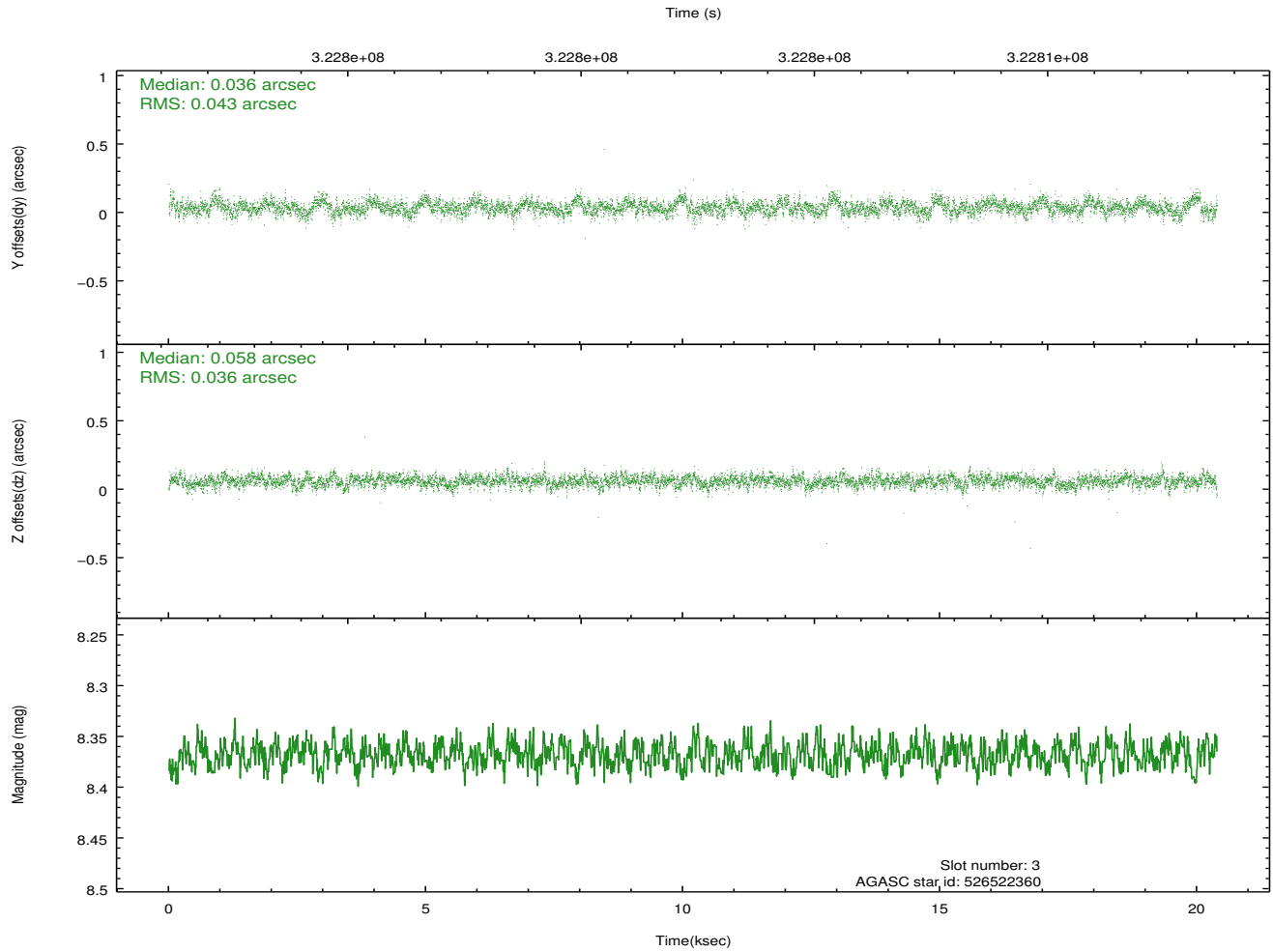
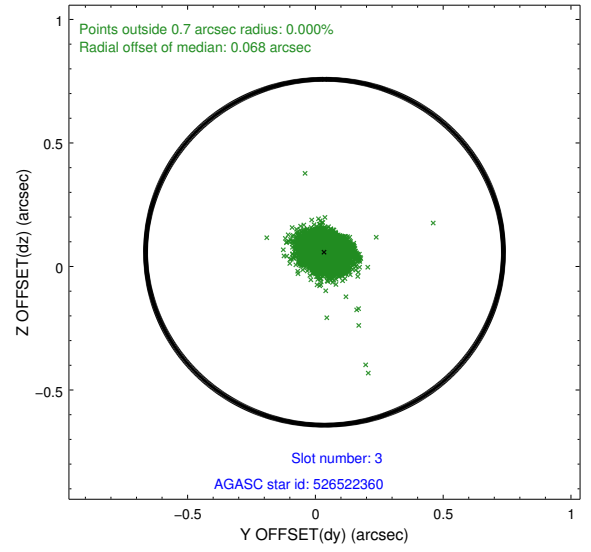
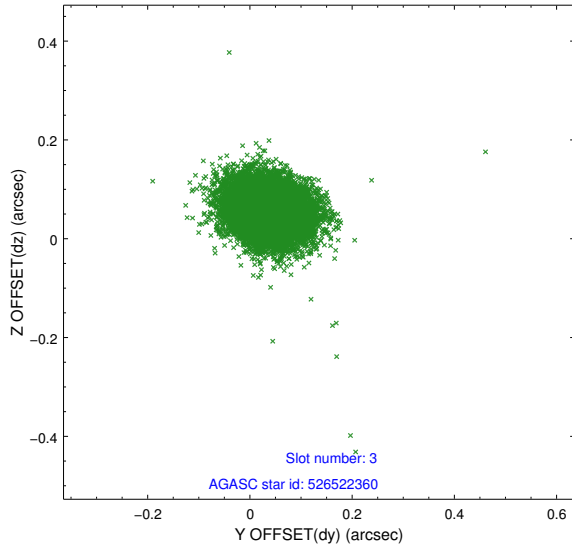


### Slot Statistics

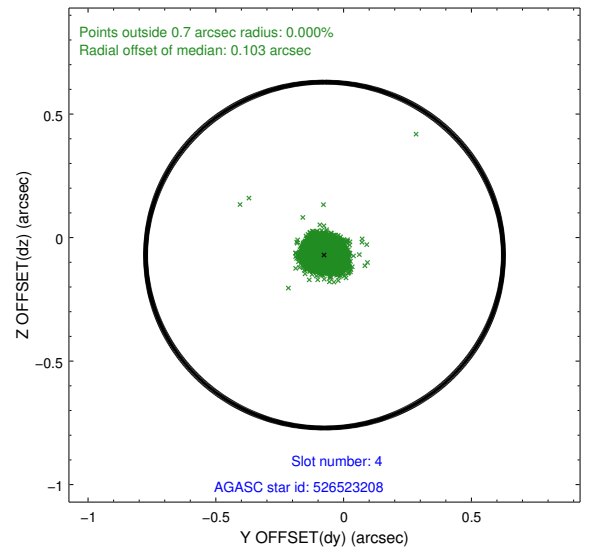
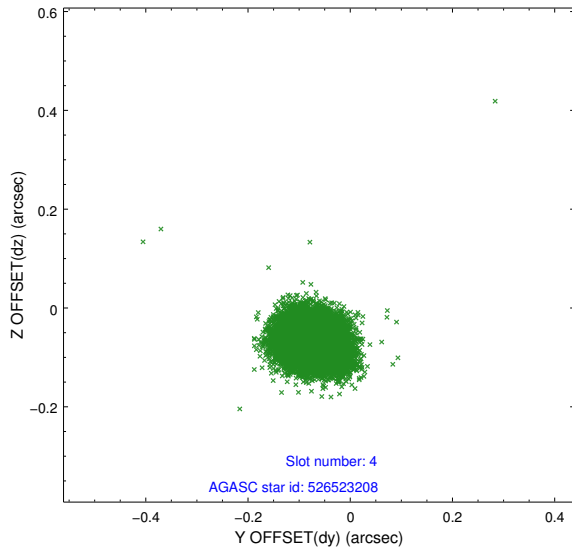
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	4974	0.052	-0.046	0.025	0.062	0.000000	0.000000	925.39	-839.04
1	FID	ACIS-I-5	7.22	4973	-0.216	0.049	0.012	0.019	0.000000	0.000000	-1822.86	1058.46
2	FID	ACIS-I-6	7.23	4973	0.073	0.065	0.016	0.044	0.000000	0.000000	390.79	1703.16
3	GUIDE	526522360	8.37	9937	0.036	0.058	0.058	0.095	14.054570	61.254010	-1465.09	1043.60
4	GUIDE	526523208	7.70	9943	-0.075	-0.071	0.050	0.079	15.890000	61.208759	1675.58	1566.51
5	GUIDE	526533728	7.01	9947	0.061	-0.036	0.053	0.083	15.011612	60.509959	732.09	-1227.87
6	GUIDE	526522208	8.83	9945	-0.053	0.066	0.095	0.155	13.754283	61.662415	-2263.28	2382.04
7	GUIDE	526531960	8.78	9941	0.034	-0.015	0.071	0.116	14.419176	60.238011	-92.96	-2406.78

## 2.4 Star Slots

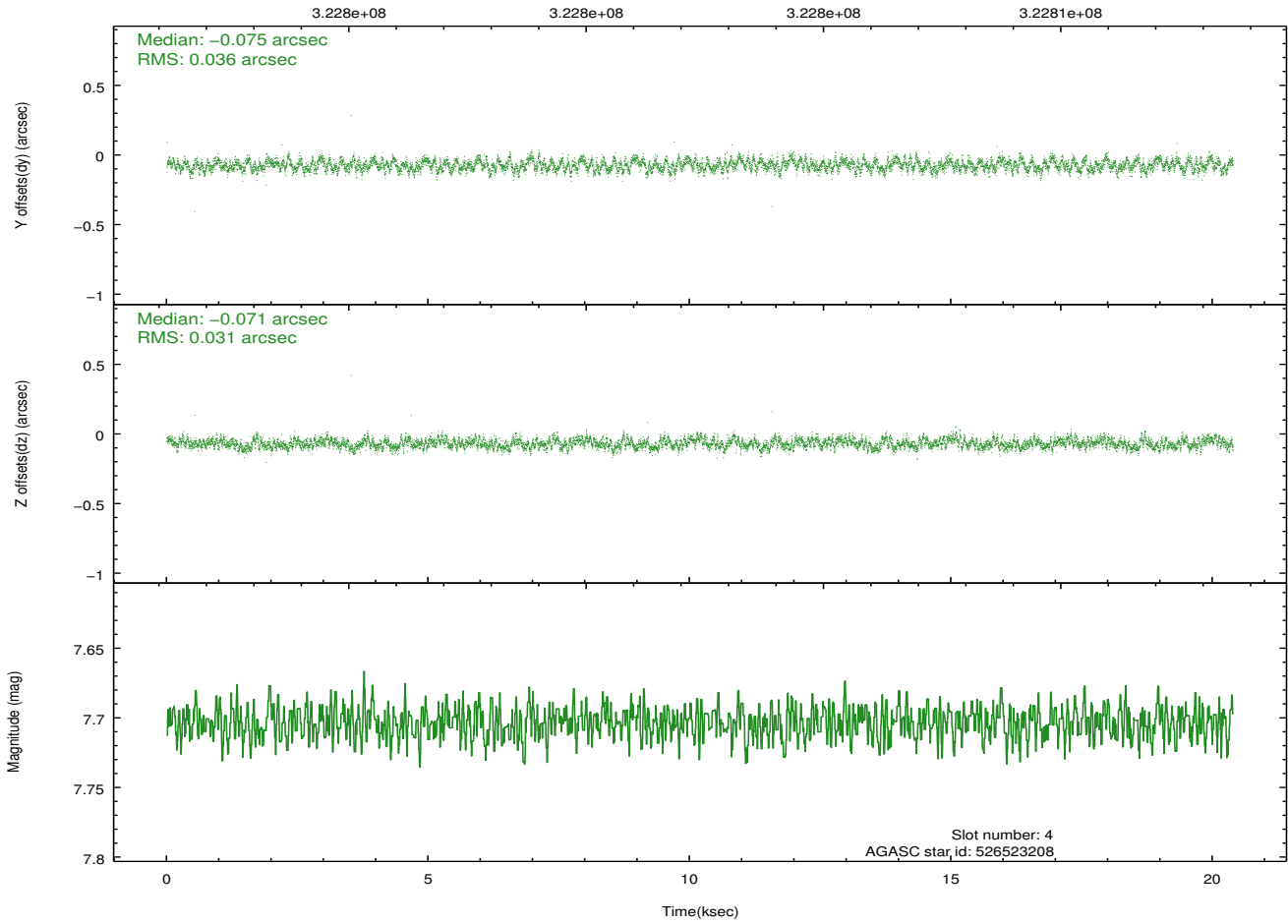
### 2.4.1 Slot 3



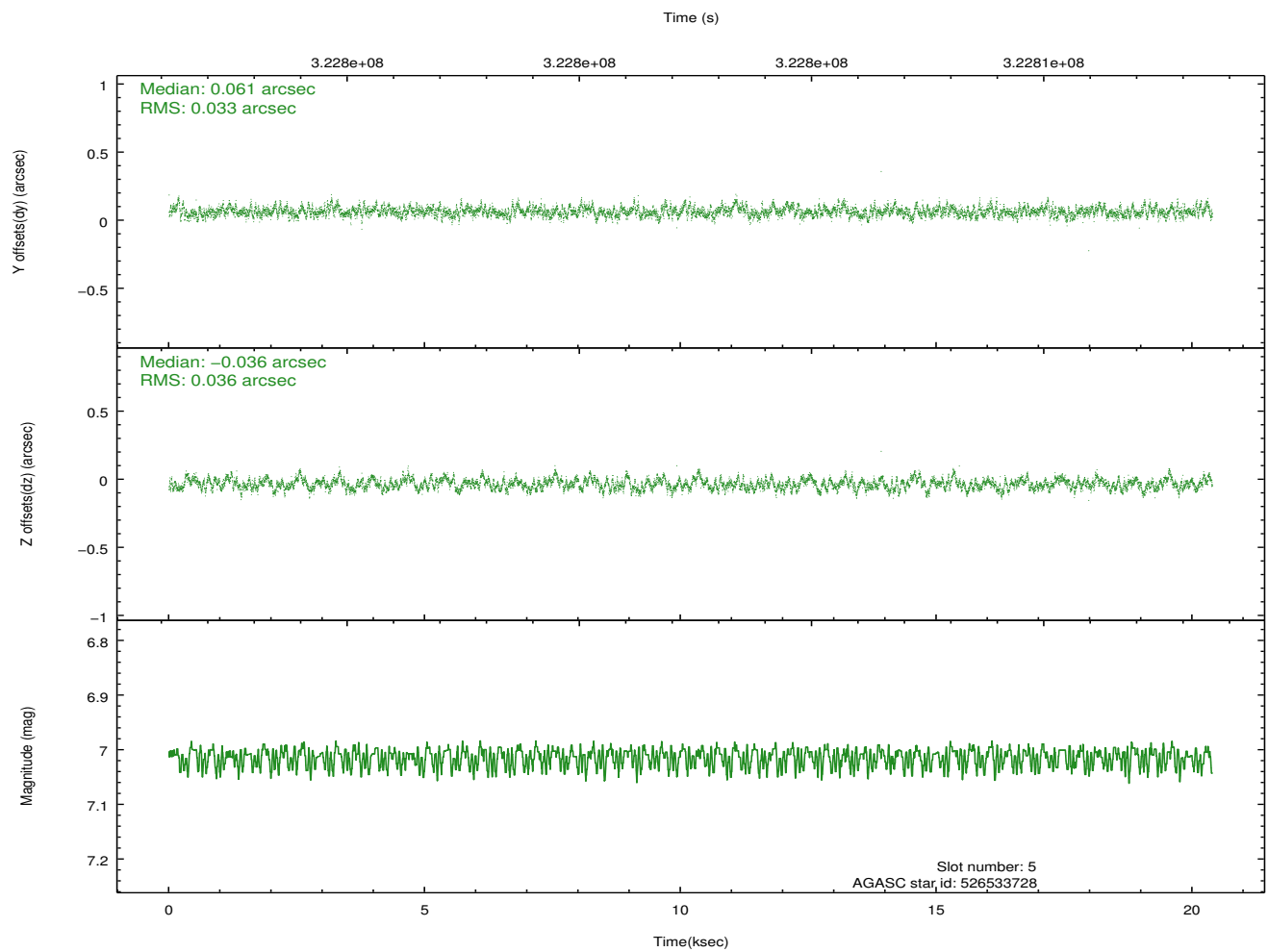
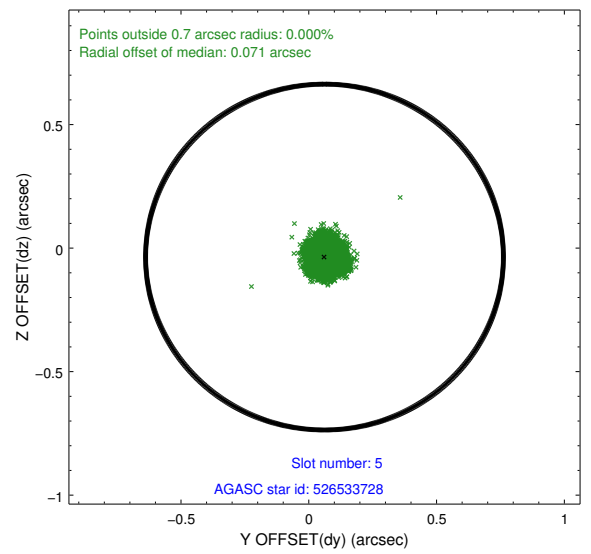
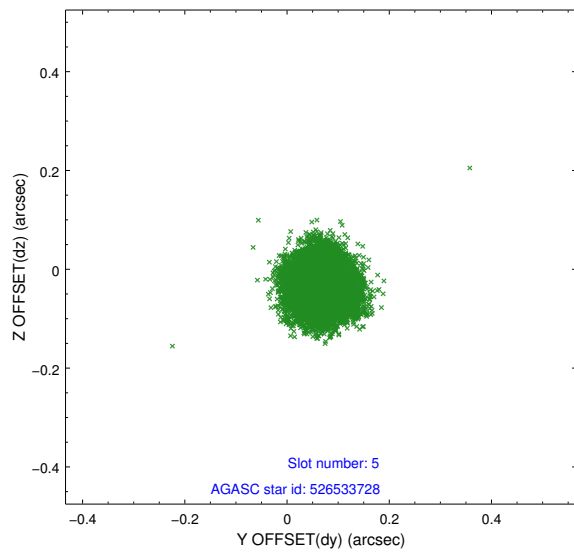
### 2.4.2 Slot 4



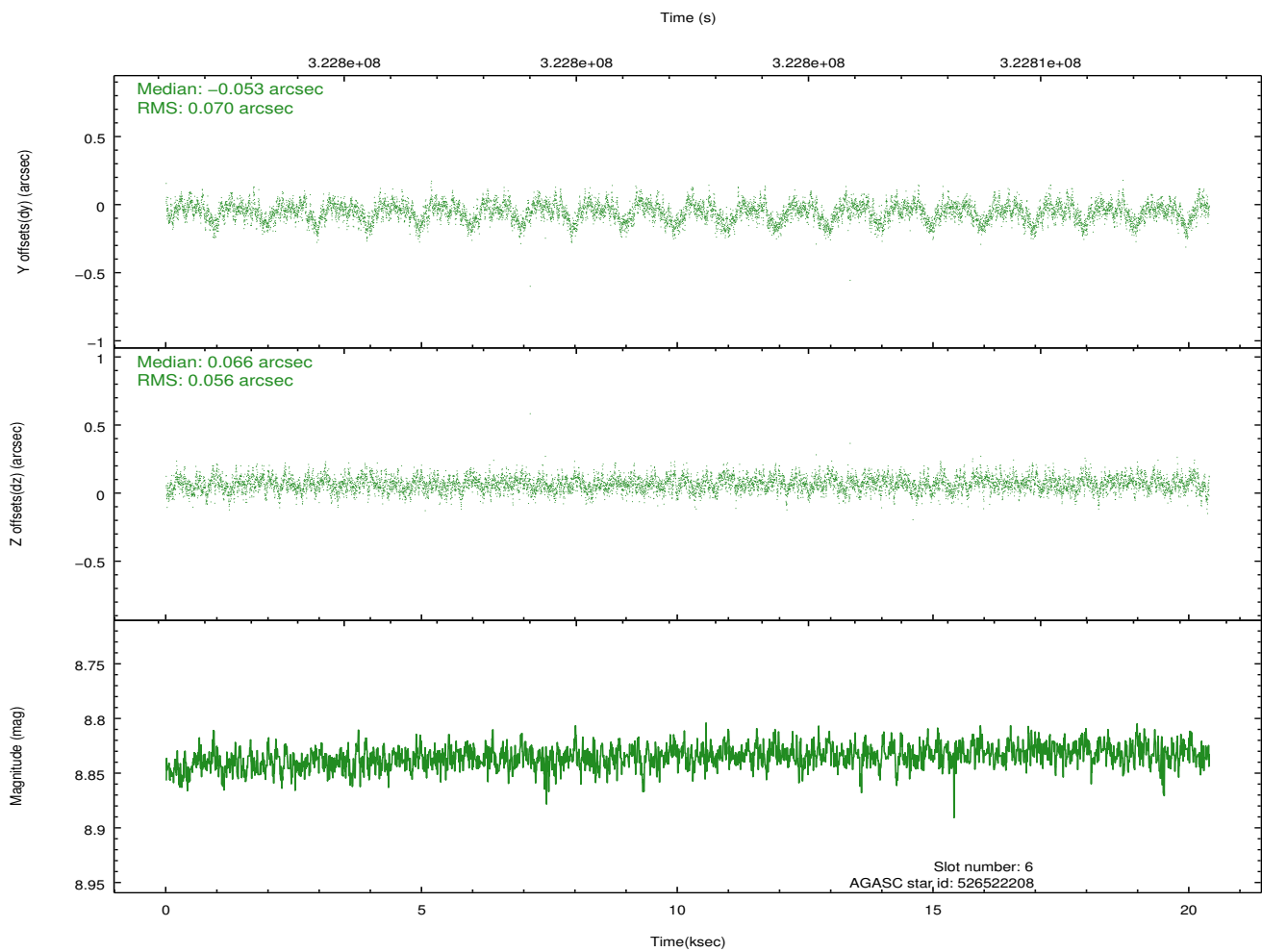
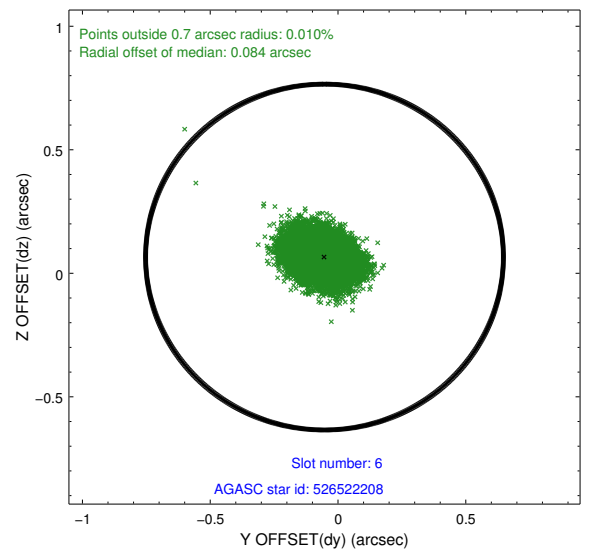
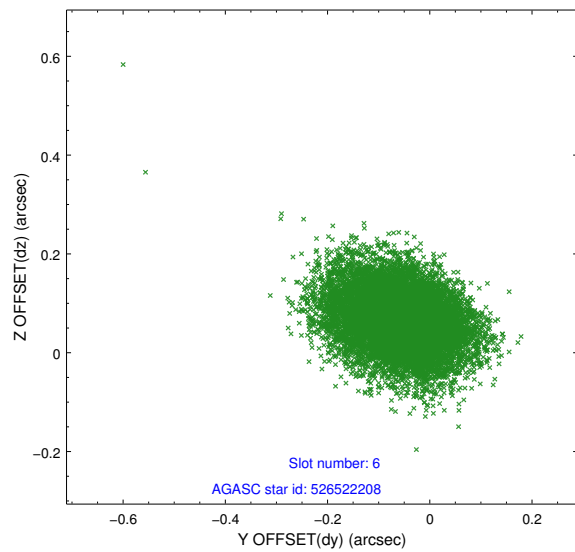
Time (s)



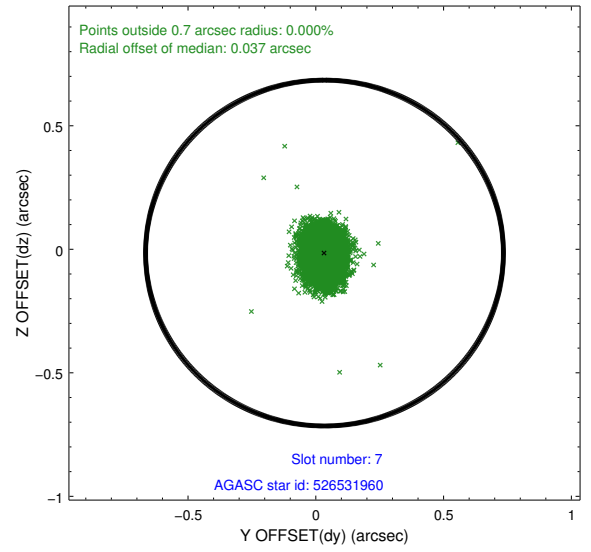
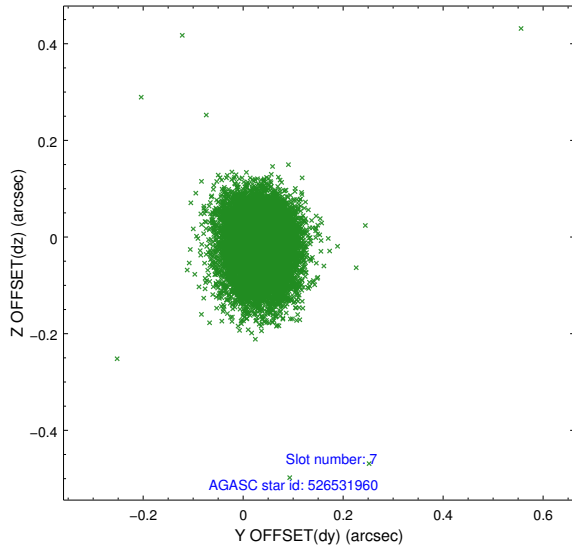
### 2.4.3 Slot 5



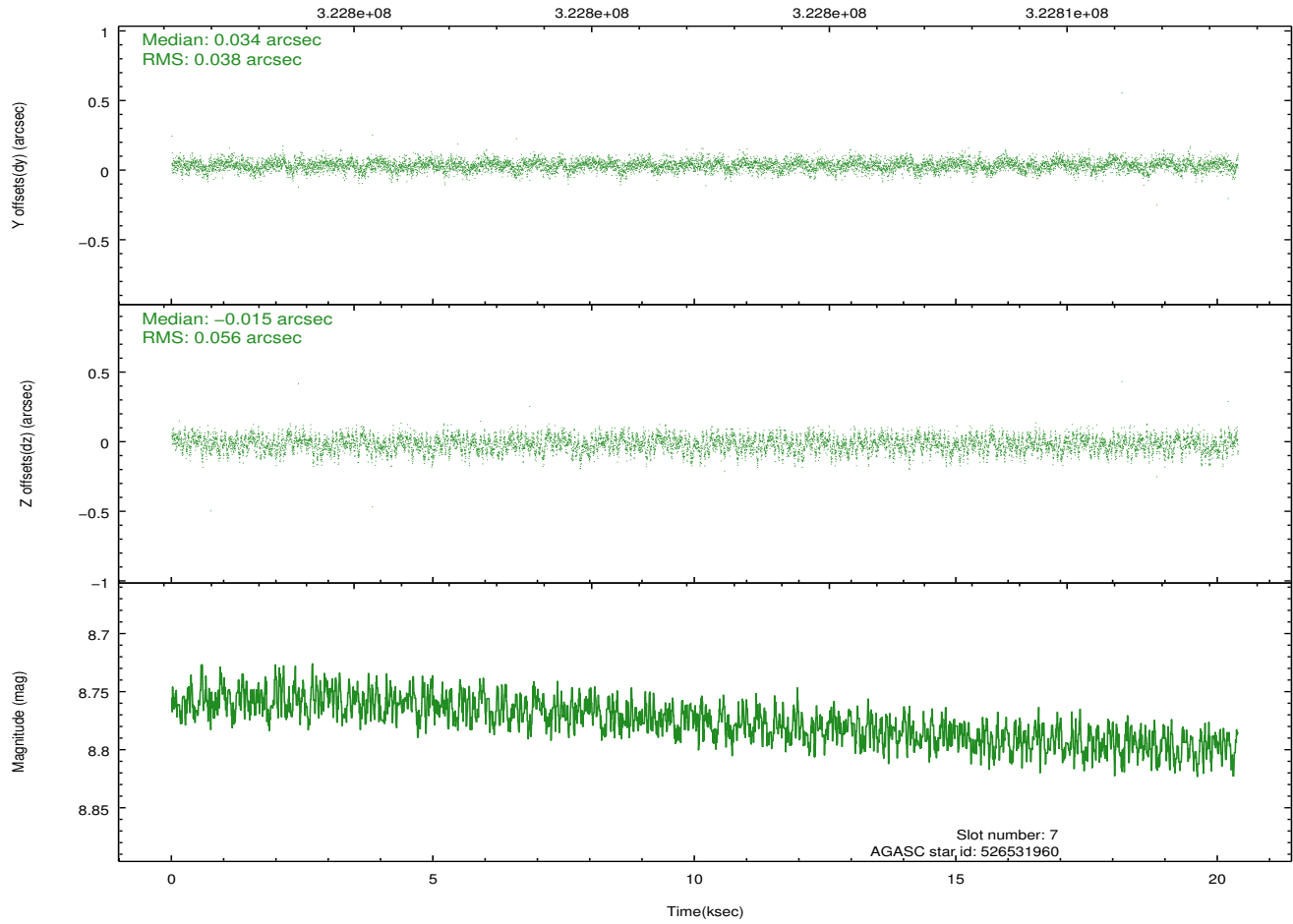
## 2.4.4 Slot 6



### 2.4.5 Slot 7

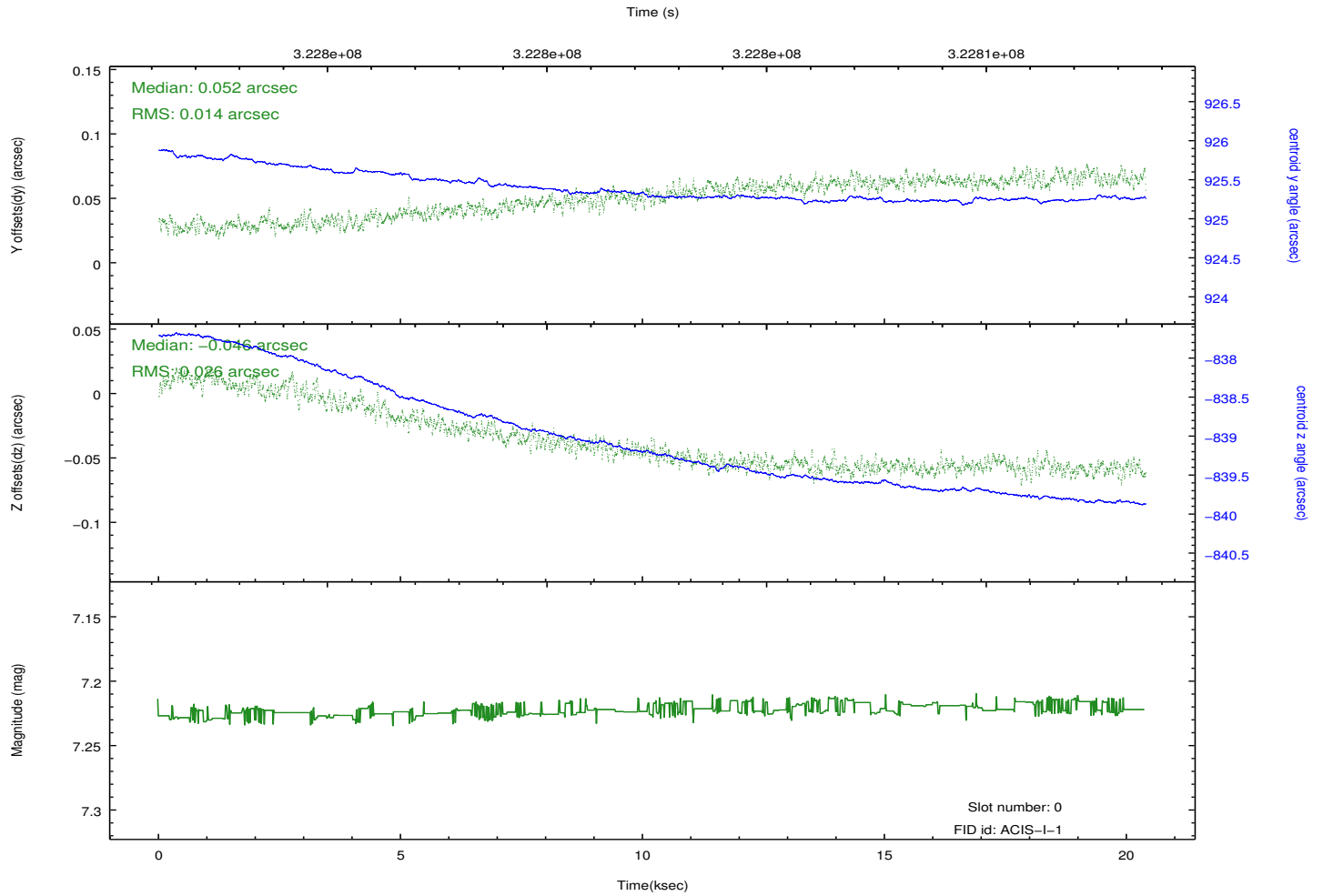
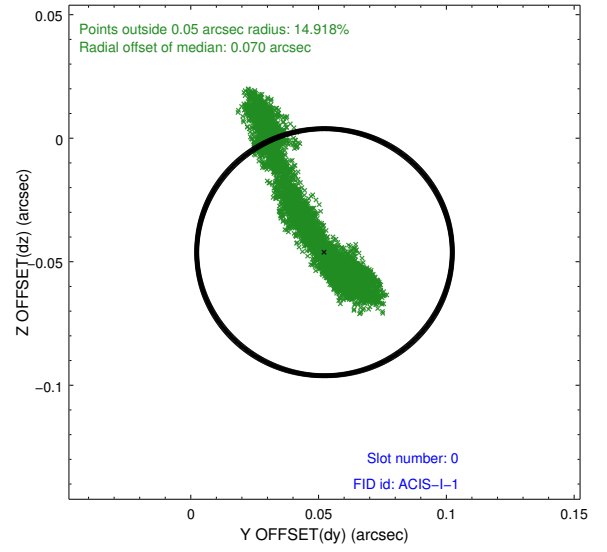
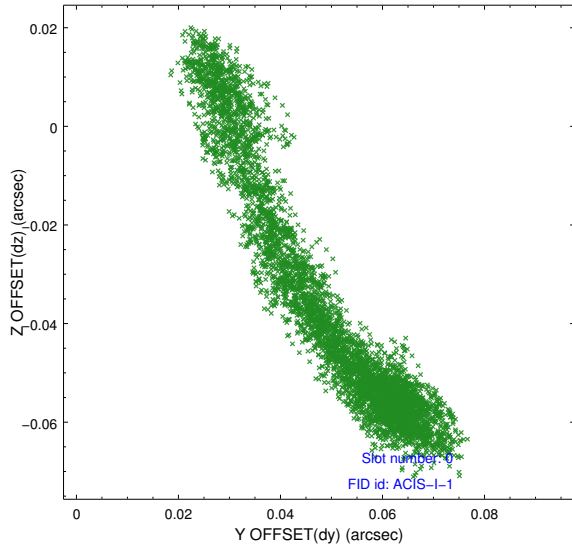


Time (s)

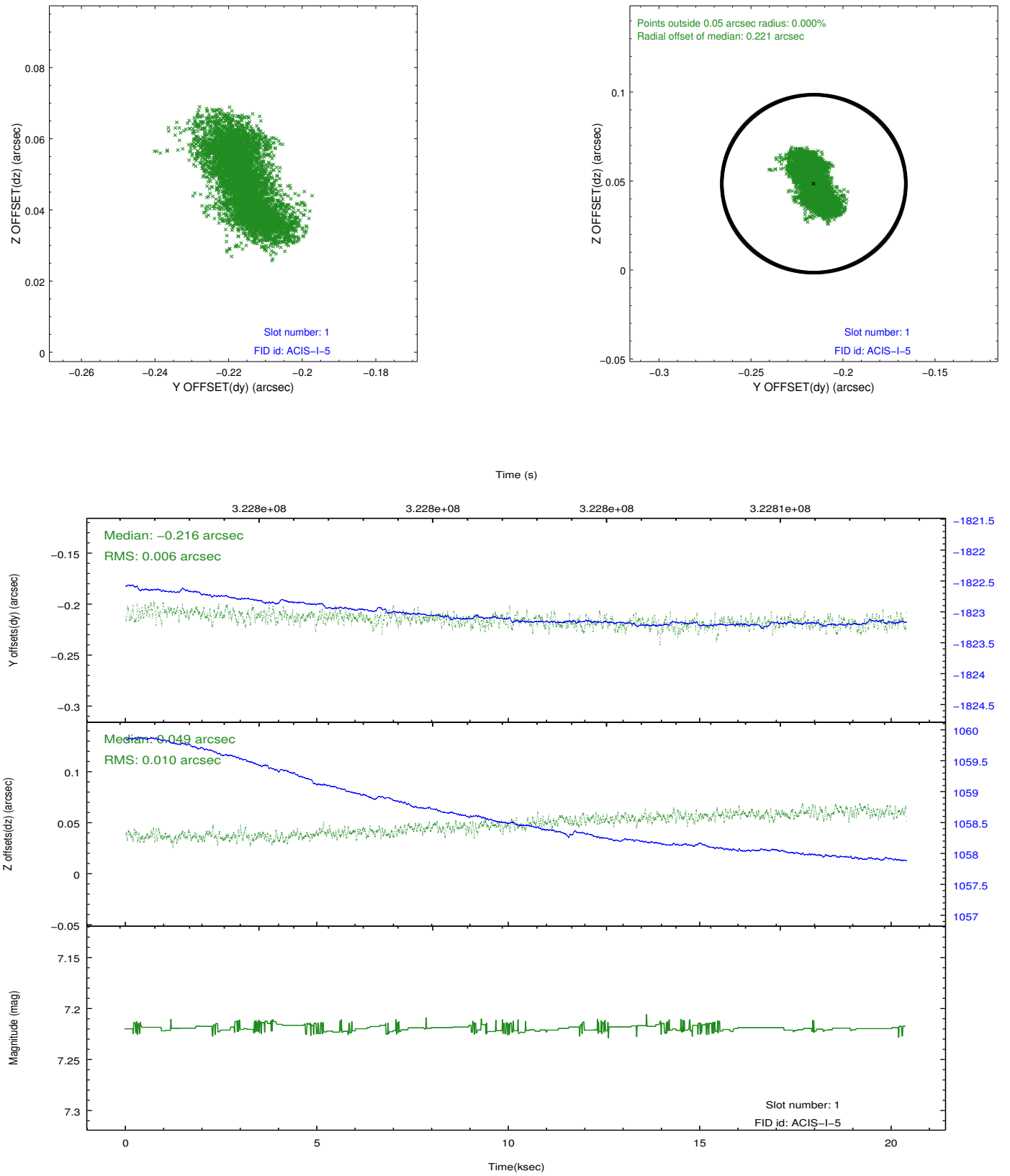


## 2.5 FID Slots

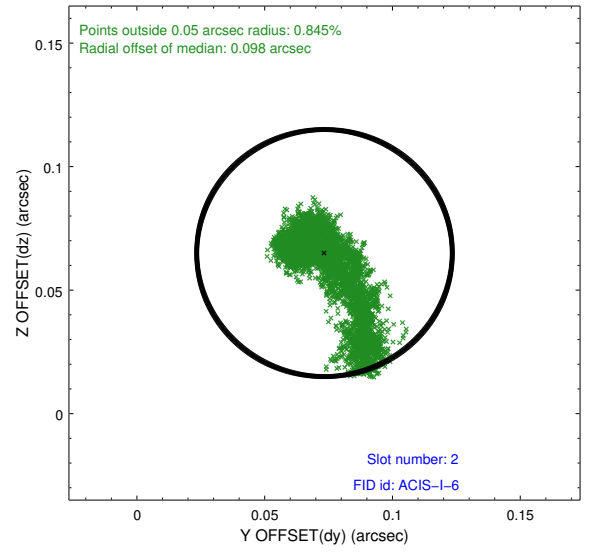
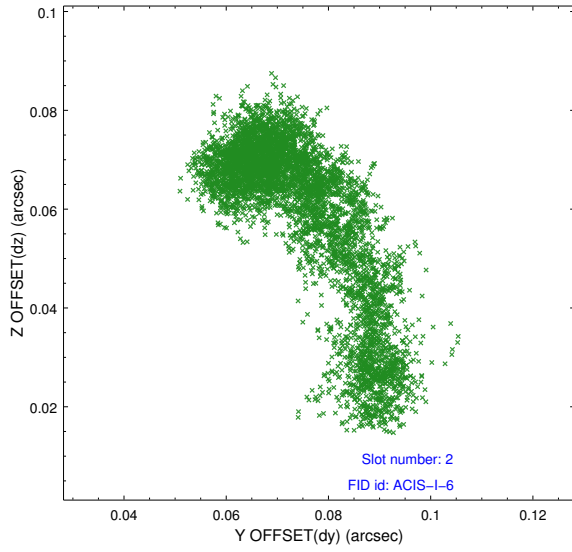
### 2.5.1 Slot 0



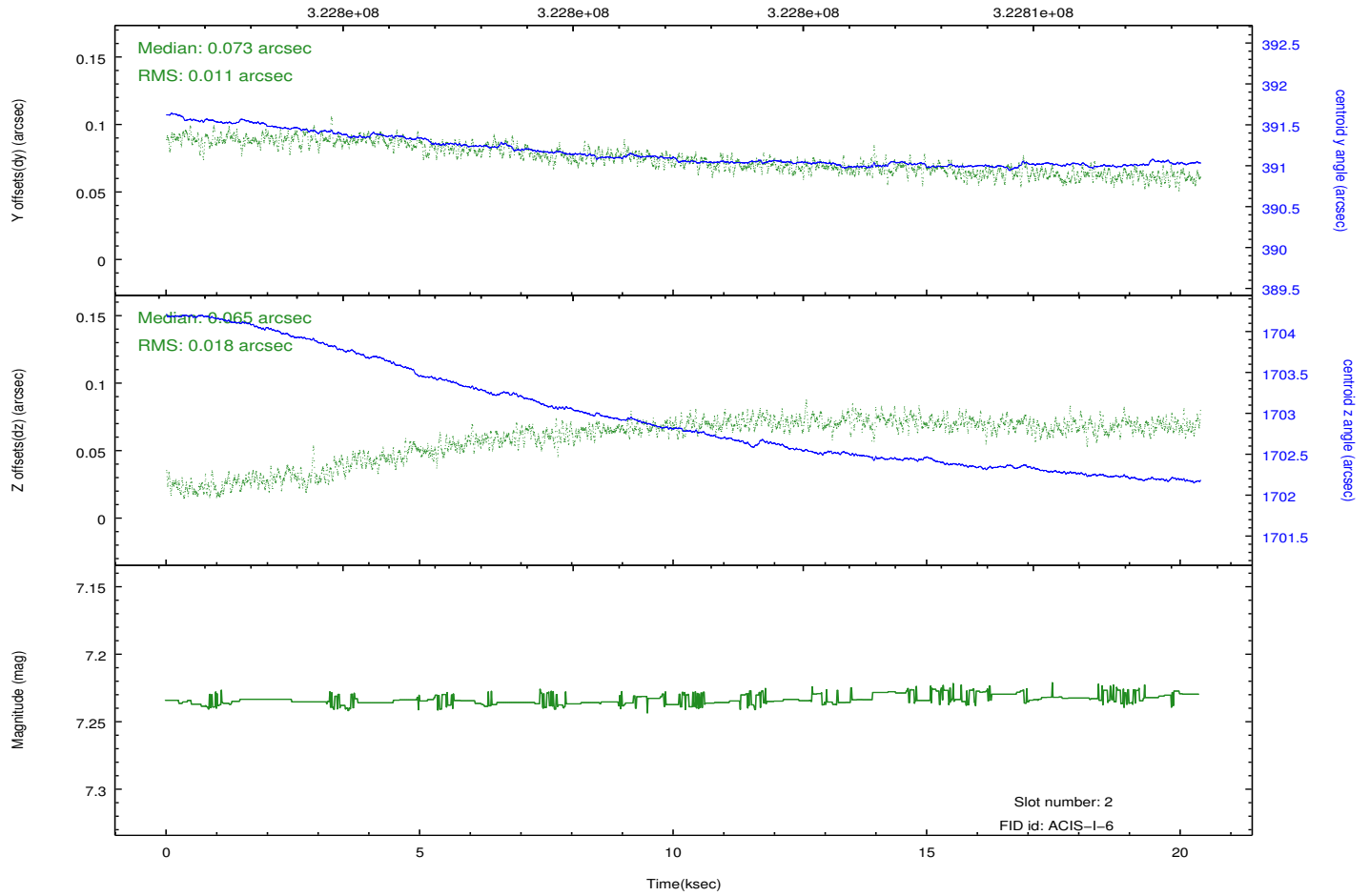
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.038359

## A.2 Comments