

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11738 - L2 Version 2  
Chandra X-Ray Center

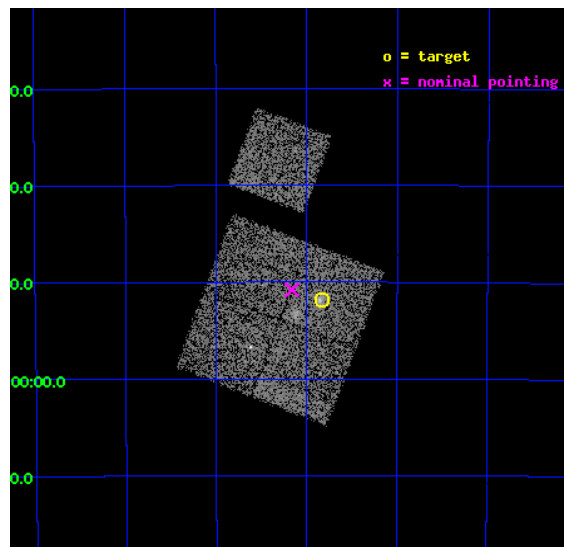
L2 Processing Date : Jun 12 2012

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# 1 Front

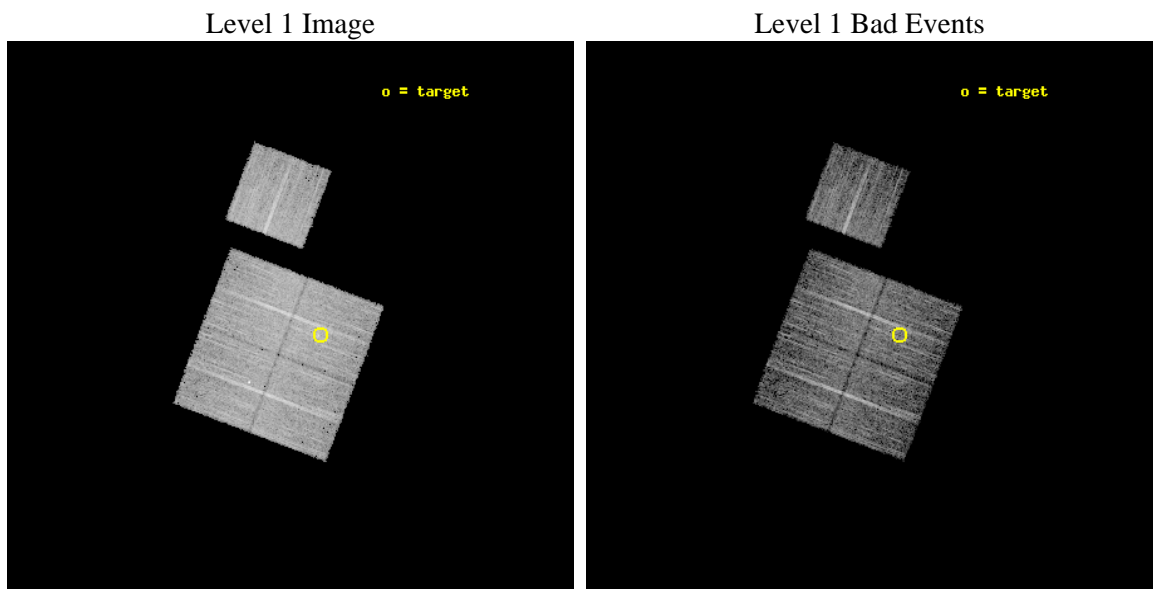
seq_num	800878	Sequence number
obs_id	11738	Observation id
title	Chandra Observations of a Complete Sample of SZE Selected Galaxy Clusters	Proposal title
observer	Dr Joseph Mohr	Principal investigator
object	SPT-CL 2332-5052	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.959167	Observer's specified target RA [deg]
dec_targ	-50.864	Observer's specified target Dec [deg]
ra_nom	353.04079751115	Nominal RA [deg]
dec_nom	-50.846641896207	Nominal Dec [deg]
roll_nom	20.738188123431	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6026.3590359688	Sum of GTIs [s]
livetime	5947.6202186229	Livetime [s]
ontime0	6029.5000463724	Sum of GTIs [s]
ontime1	6029.5000463724	Sum of GTIs [s]
ontime2	6029.5000463724	Sum of GTIs [s]
ontime3	6026.3590359688	Sum of GTIs [s]
ontime6	6026.3590756059	Sum of GTIs [s]
l2events	23795	Number of level 2 events



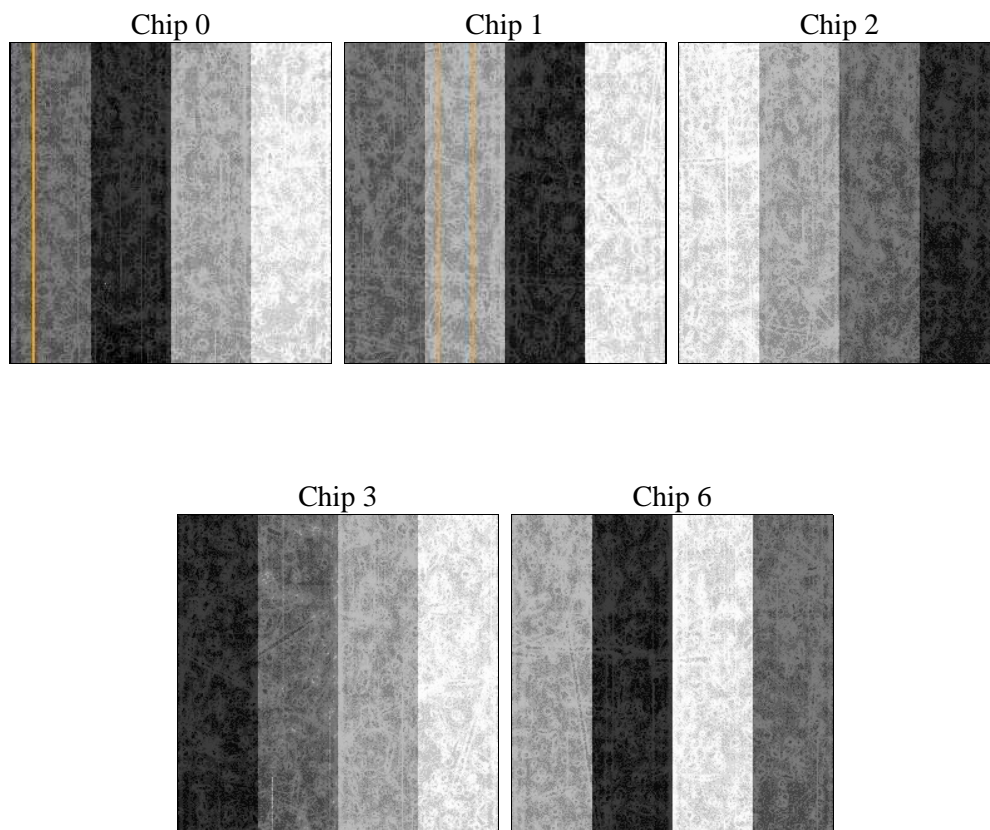
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6026.3590359688	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	6029.5000463724	Sum of GTIs [s]
date	2012-06-12T13:53:47	Date and time of file creation	ontime1	6029.5000463724	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6029.5000463724	Sum of GTIs [s]
			ontime3	6026.3590359688	Sum of GTIs [s]
			ontime6	6026.3590756059	Sum of GTIs [s]
			l1events	307108	Number of level 1 events

### 2.1.4 Events

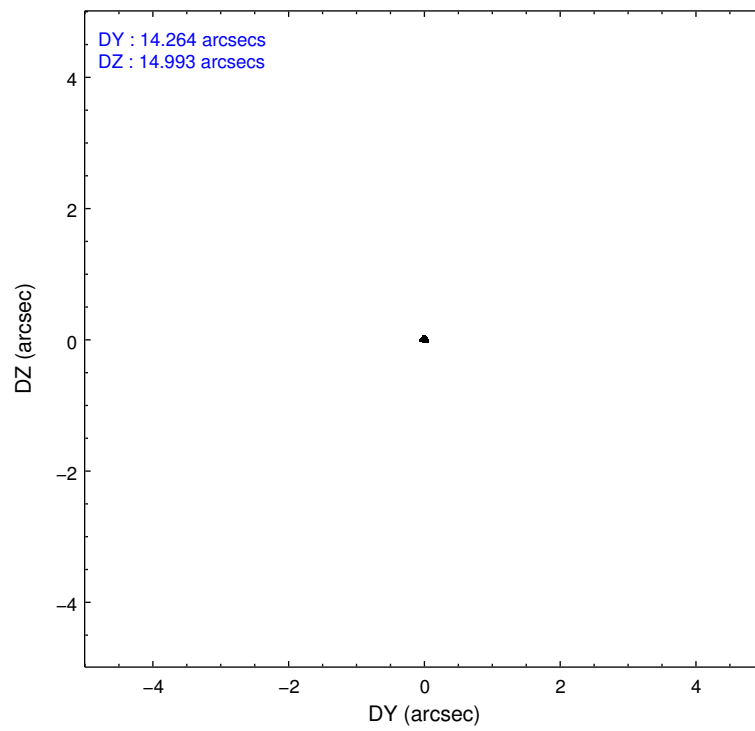
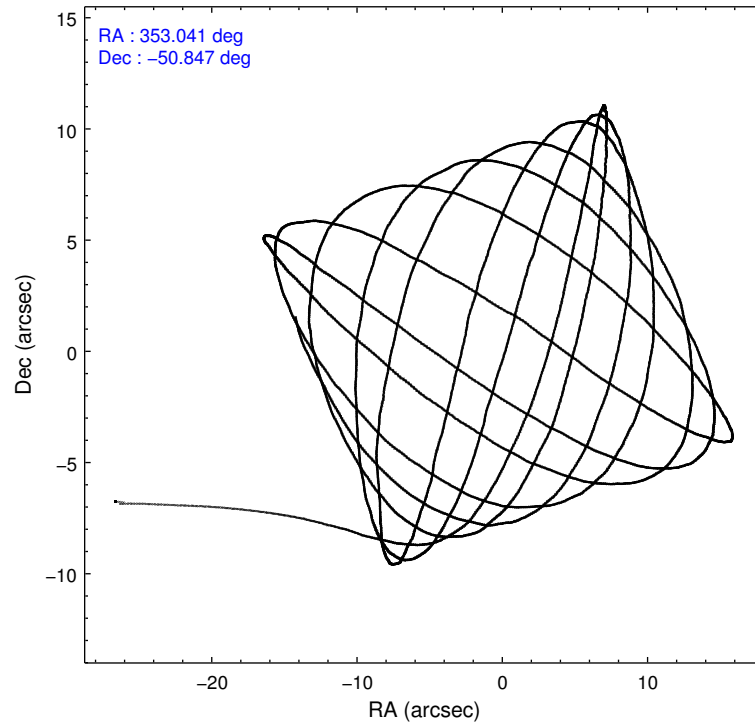
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	58549	57089	66395	62530	62545
rejected events	52715	51098	61063	56701	57100
rejected %	90%	89%	91%	90%	91%

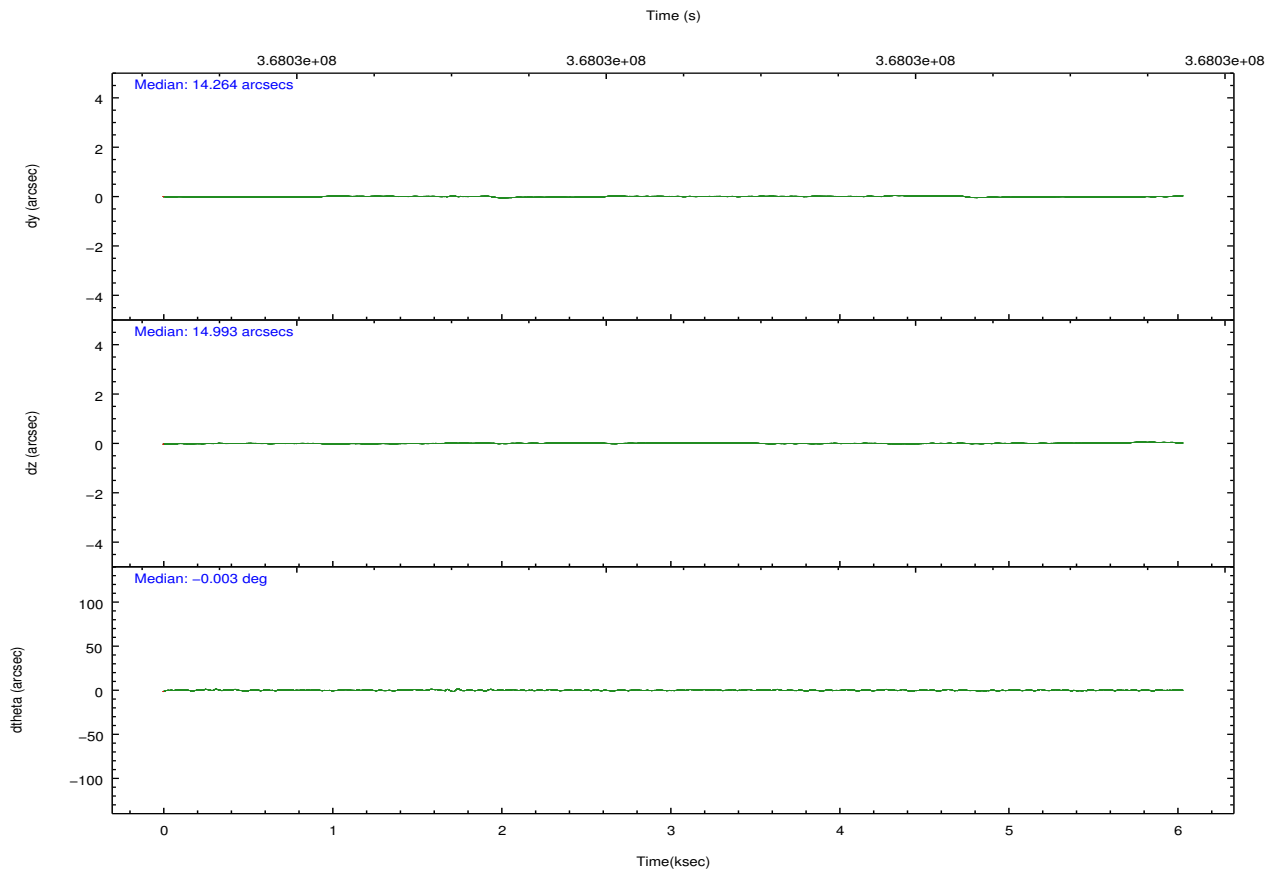
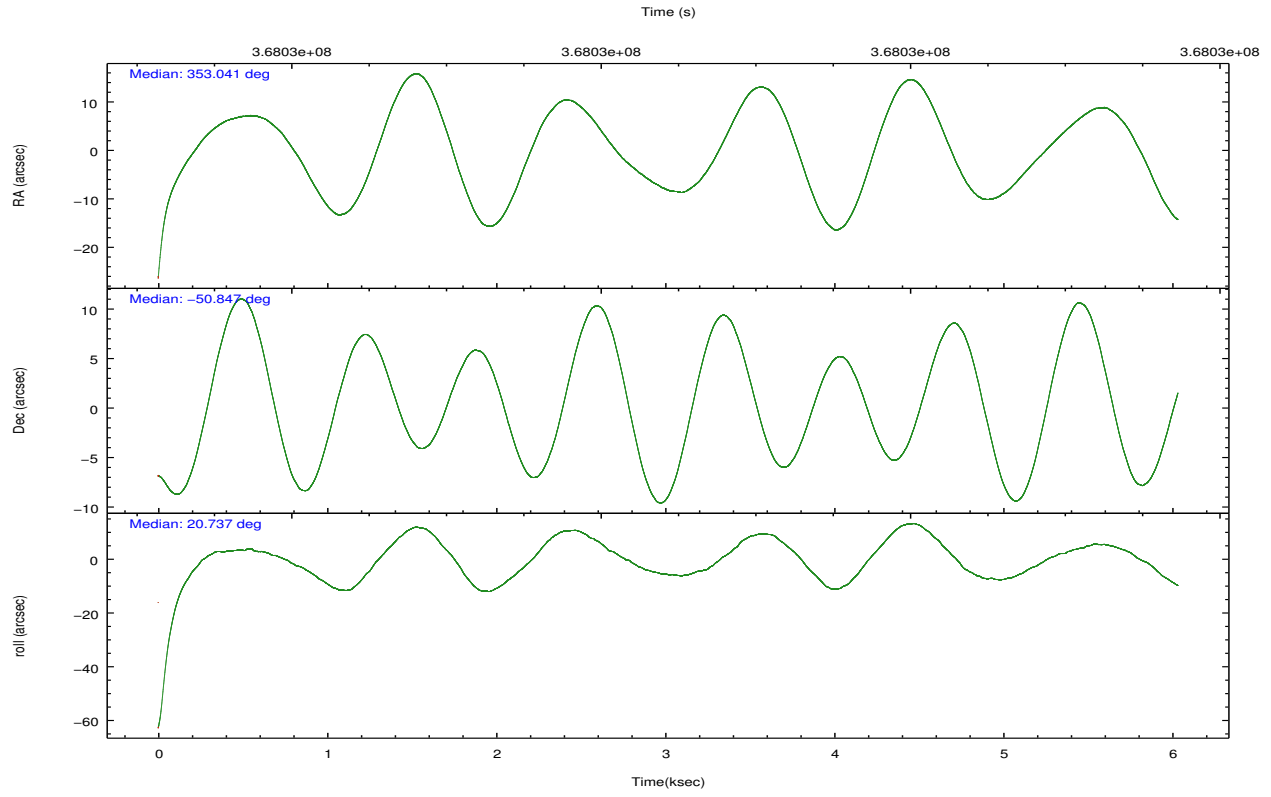
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2625	2548	2280	2810	2267
	4%	4%	3%	4%	3%
grade 1 events	30	34	36	37	31
	0%	0%	0%	0%	0%
grade 2 events	1604	1620	1490	1375	1418
	2%	2%	2%	2%	2%
grade 3 events	720	756	654	677	662
	1%	1%	0%	1%	1%
grade 4 events	699	749	656	705	684
	1%	1%	0%	1%	1%
grade 5 events	2220	2404	2161	2697	2511
	3%	4%	3%	4%	4%
grade 6 events	1232	1479	1187	1253	1407
	2%	2%	1%	2%	2%
grade 7 events	49419	47499	57931	52976	53565
	84%	83%	87%	84%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	353.013366	353.0407975111482	CCD I2 on	Y	Y
[deg] Pointing Dec	-50.867951	-50.84664189620696	CCD I3 on	Y	Y
[deg] Pointing Roll	20.508292	20.73818812343149	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	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	368027553.184000	368026012.16211	CCD S5 on	N	N
Observation start date	2009-08-30T13:51:27	2009-08-30T13:26:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	368033453.184000	368034390.51253	On-chip summing requested	N	N
Observation end date	2009-08-30T15:29:47	2009-08-30T15:46:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



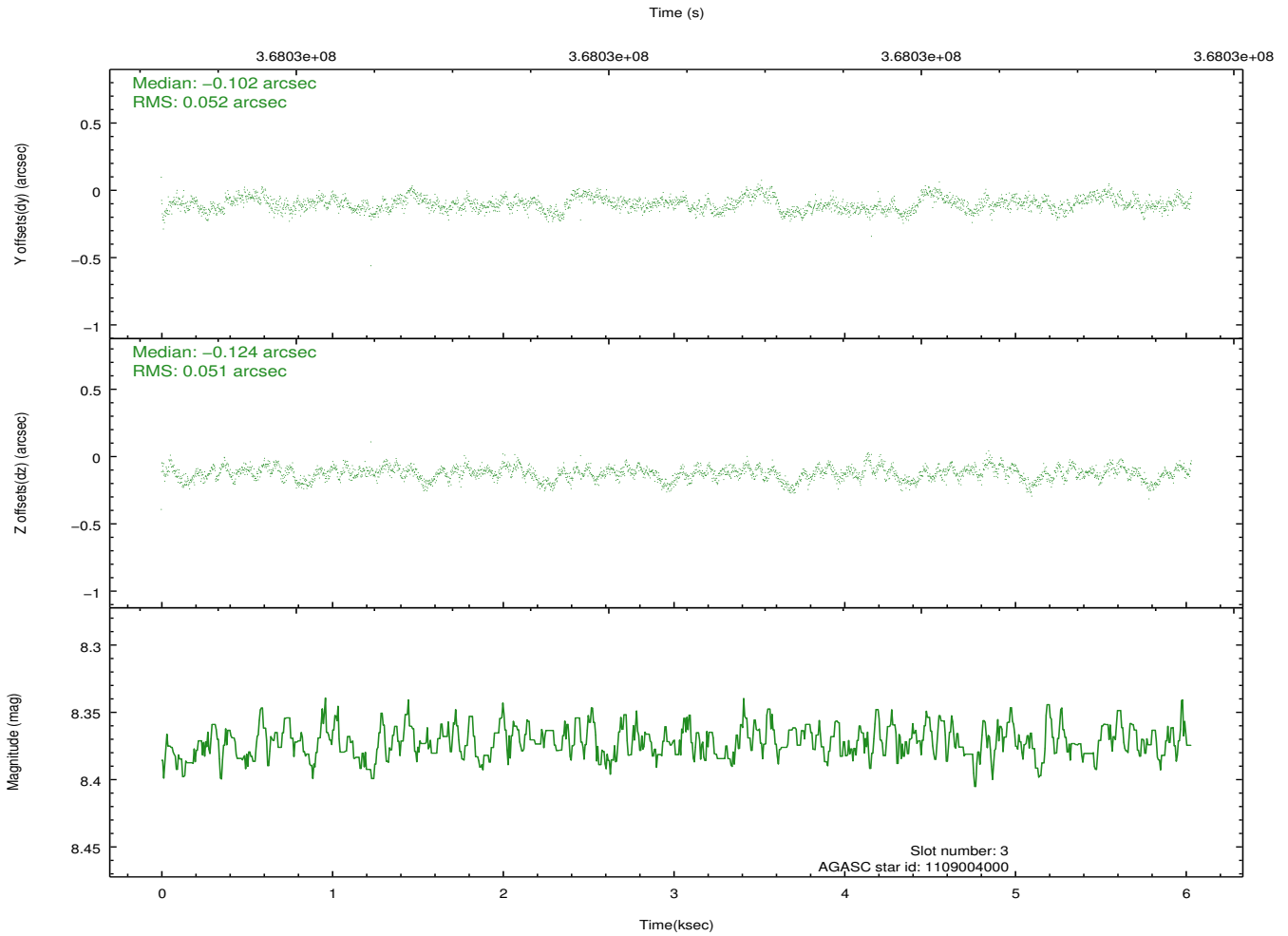
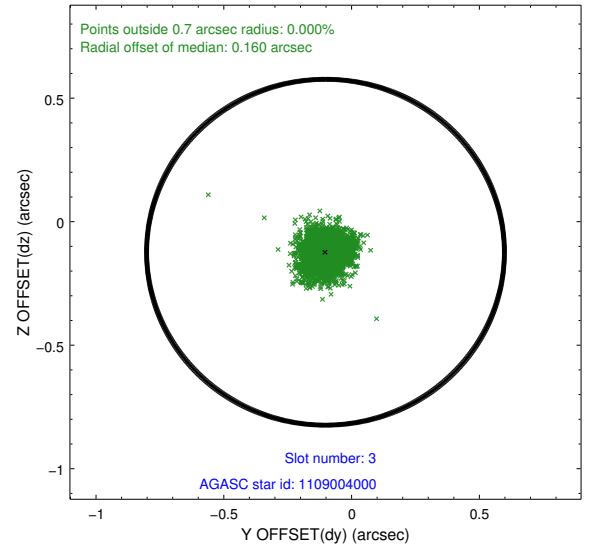
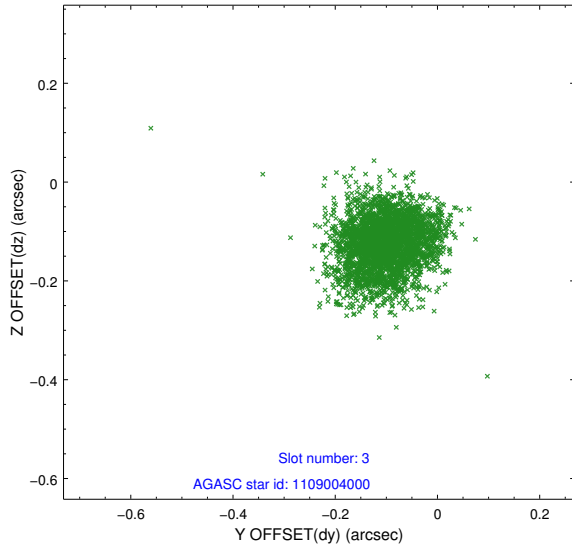


### Slot Statistics

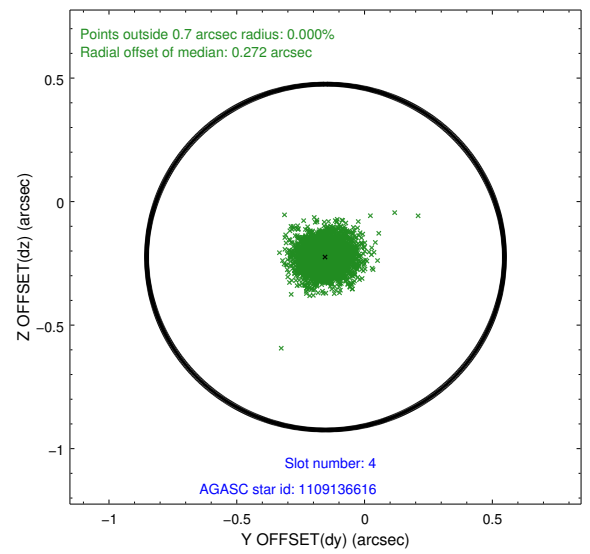
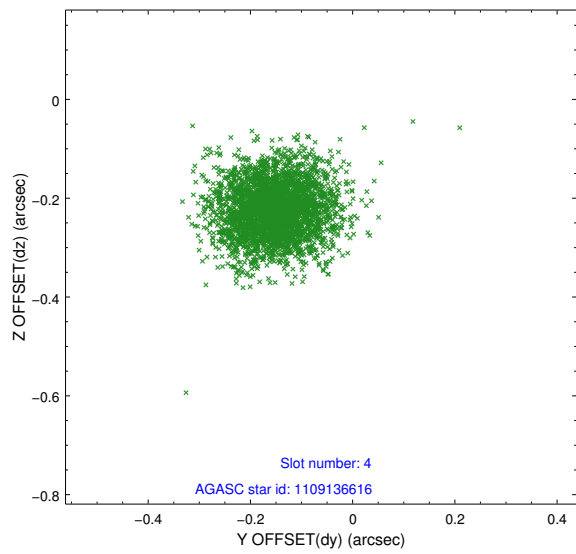
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	1472	0.127	-0.104	0.006	0.011	0.000000	0.000000	925.22	-997.77
1	FID	ACIS-I-5	7.06	1472	-0.323	0.090	0.006	0.010	0.000000	0.000000	-1822.82	899.28
2	FID	ACIS-I-6	7.08	1471	0.104	0.085	0.006	0.011	0.000000	0.000000	389.63	1544.93
3	GUIDE	1109004000	8.37	2943	-0.102	-0.124	0.078	0.123	352.284405	-51.019762	-1739.41	59.27
4	GUIDE	1109136616	9.20	2944	-0.153	-0.225	0.084	0.138	353.560887	-50.553400	1567.59	617.67
5	GUIDE	1109136952	10.04	2941	0.160	0.182	0.147	0.242	353.168955	-50.505373	791.79	1098.10
6	GUIDE	1109140000	9.76	2917	0.103	0.124	0.130	0.212	353.643260	-50.847199	1365.69	-436.53
7	GUIDE	1109005320	9.00	2937	-0.009	0.052	0.088	0.146	352.318268	-51.588018	-2366.25	-1889.72

## 2.4 Star Slots

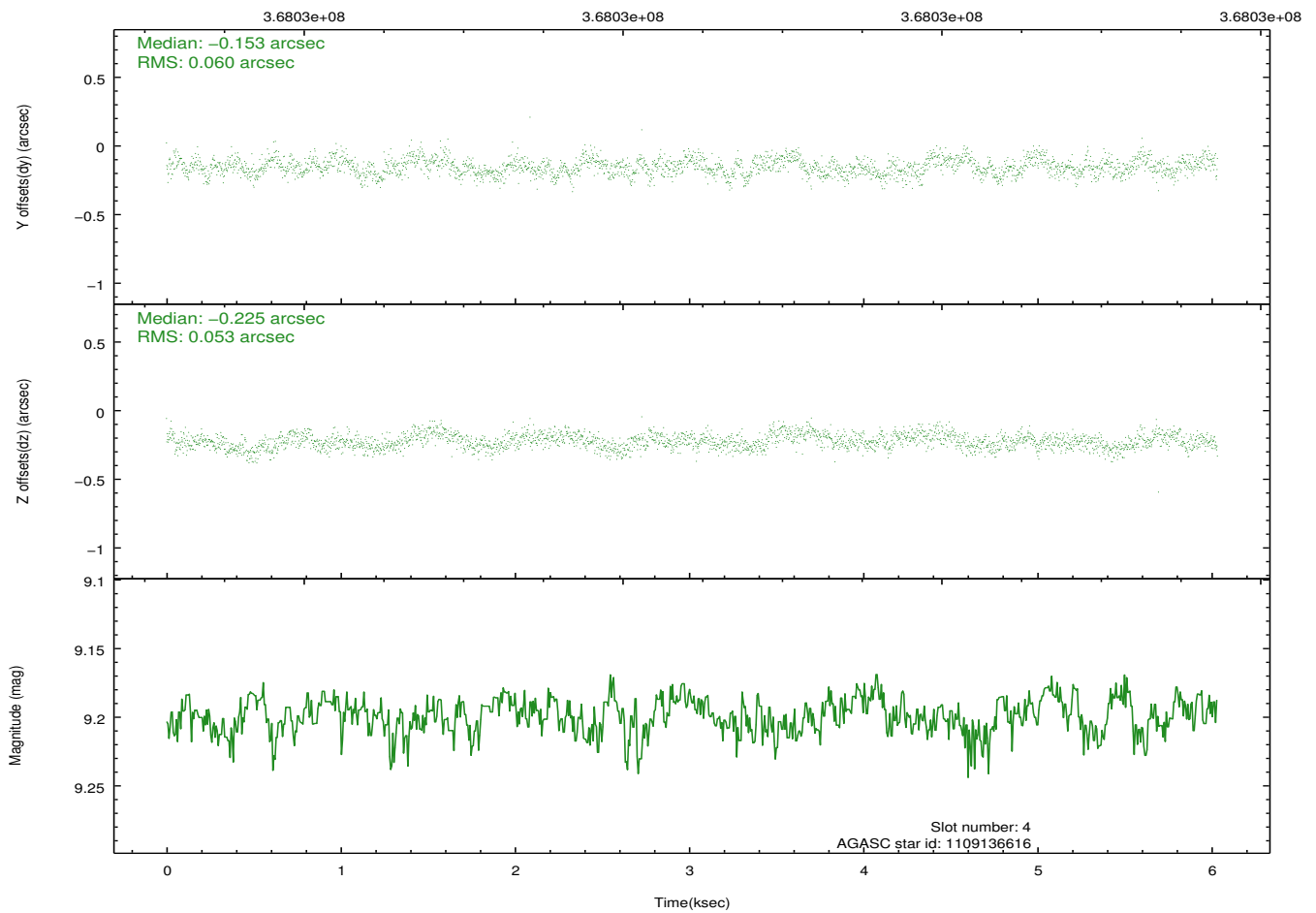
### 2.4.1 Slot 3



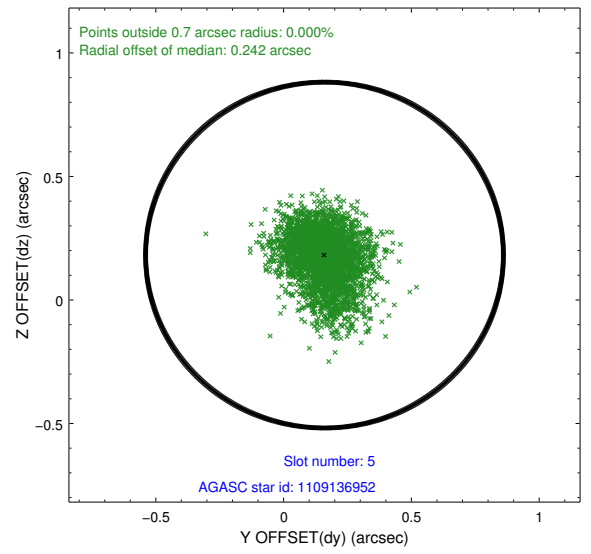
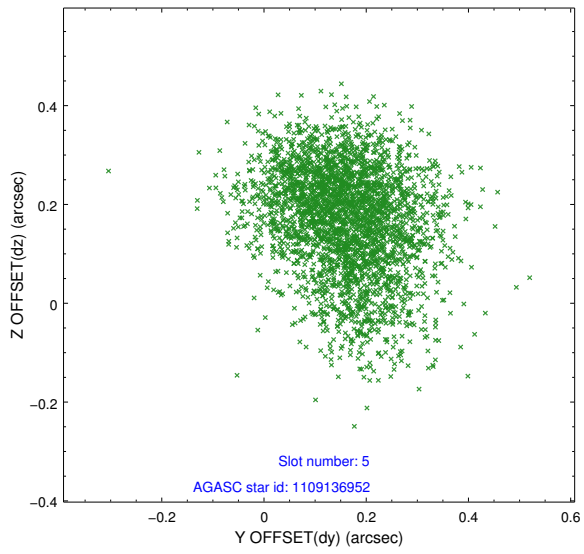
## 2.4.2 Slot 4



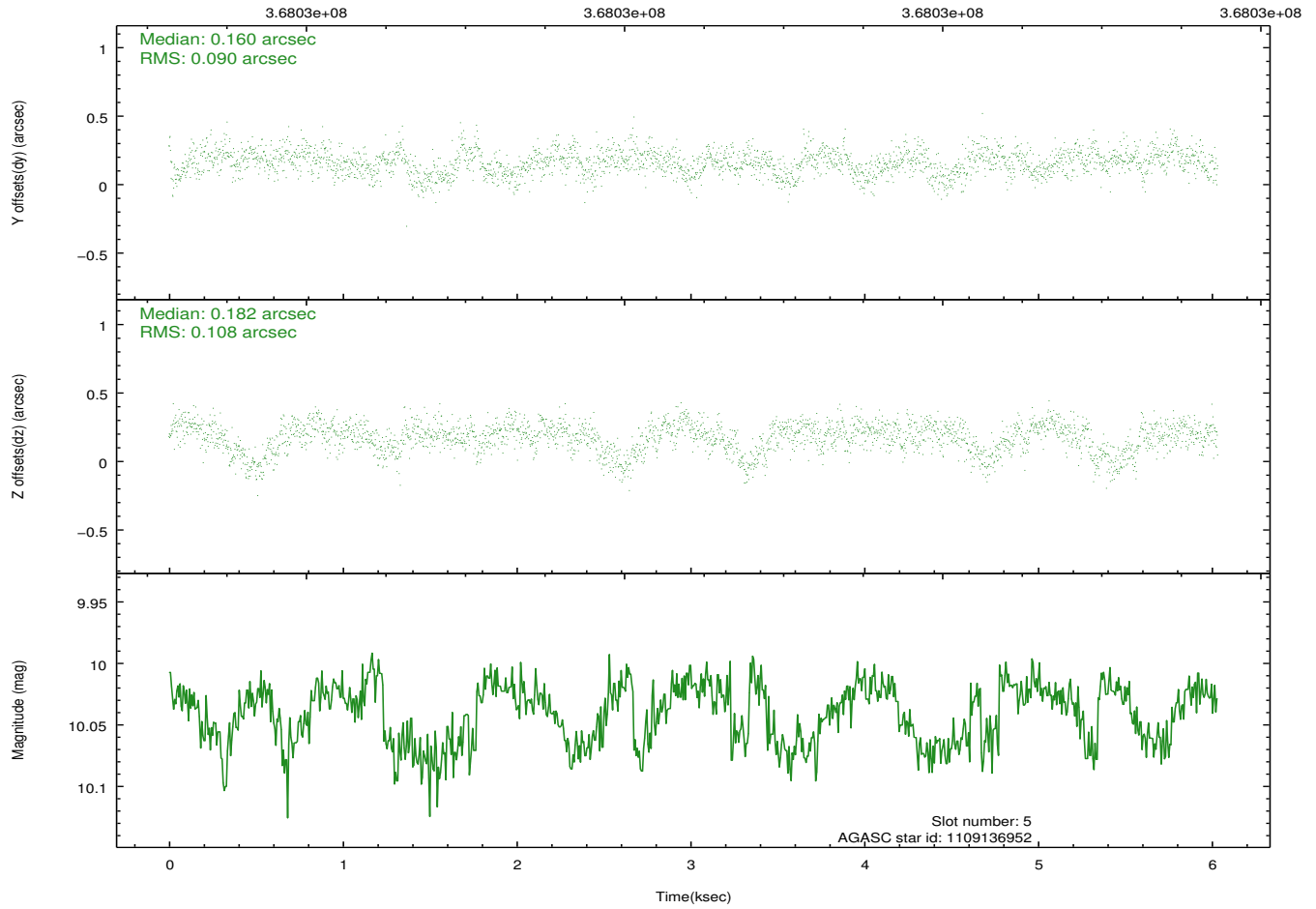
Time (s)



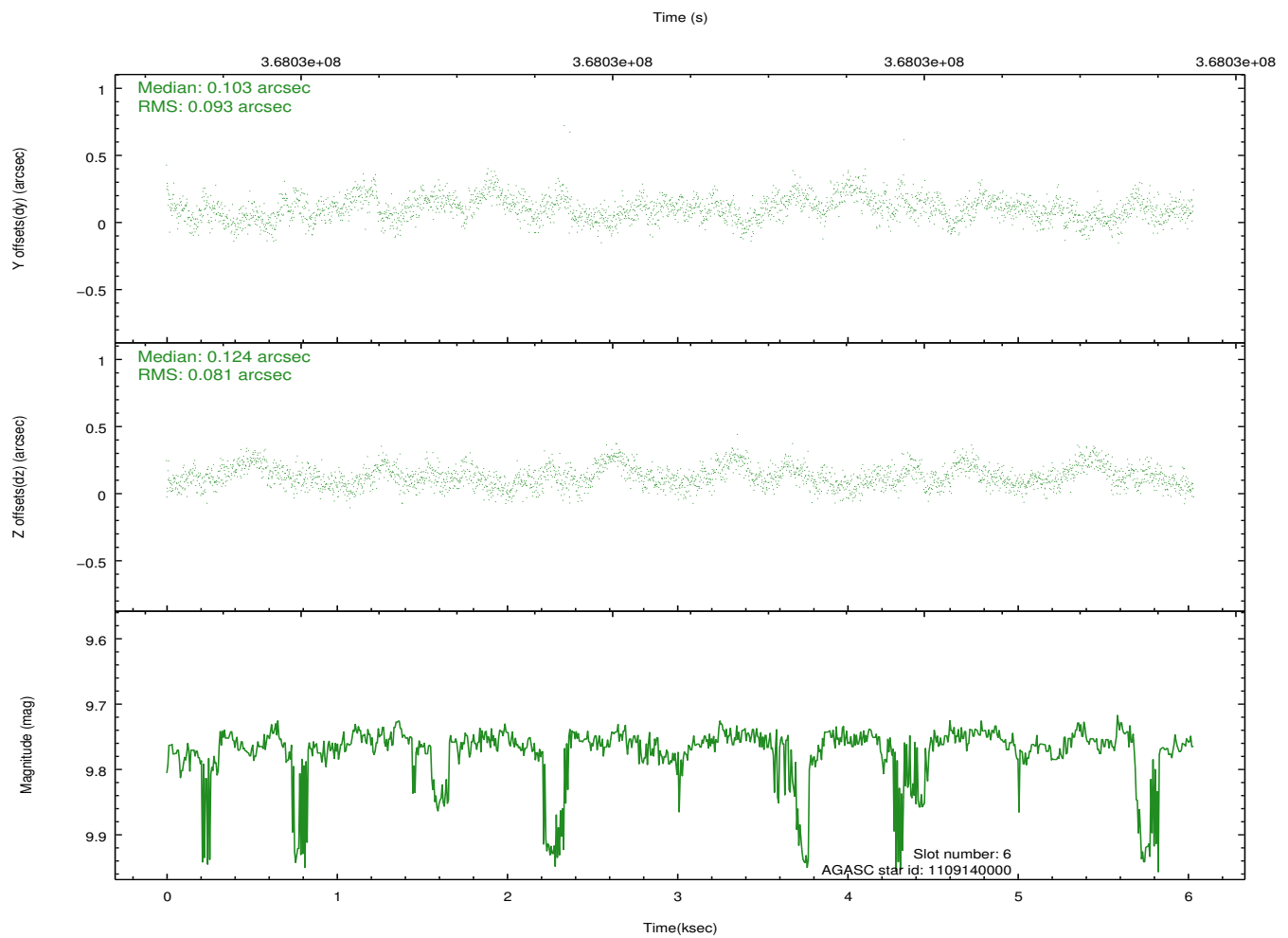
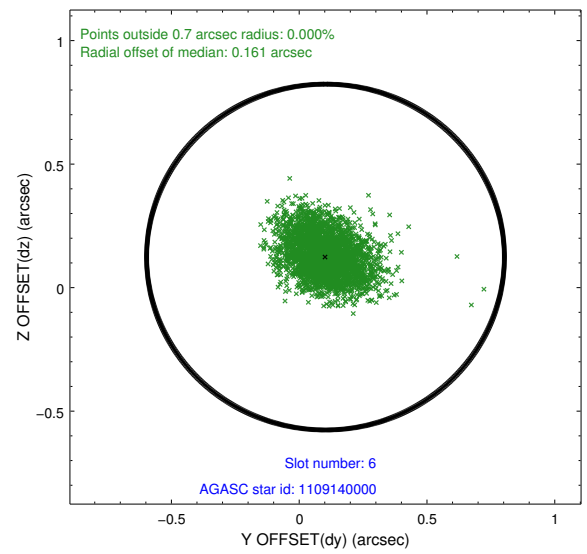
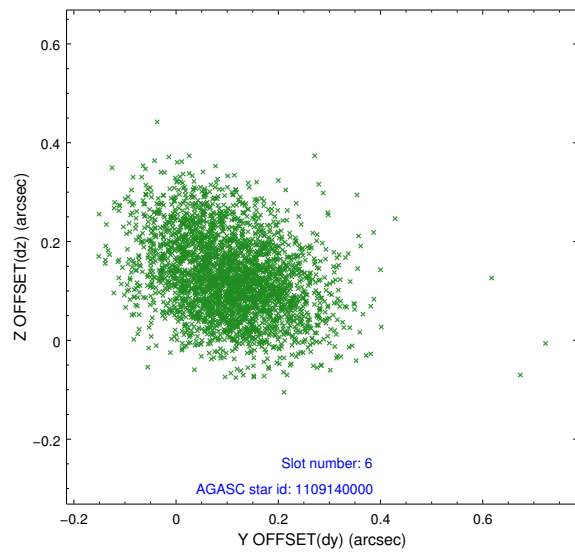
### 2.4.3 Slot 5



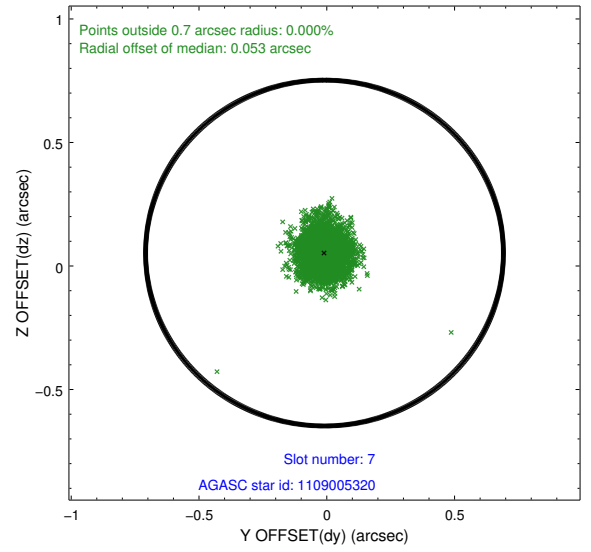
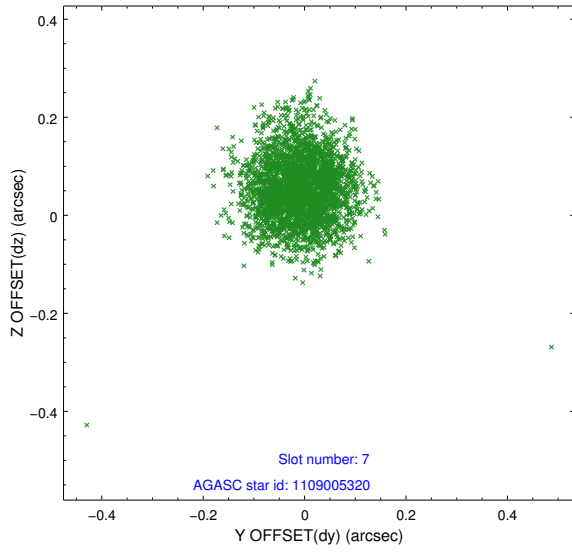
Time (s)



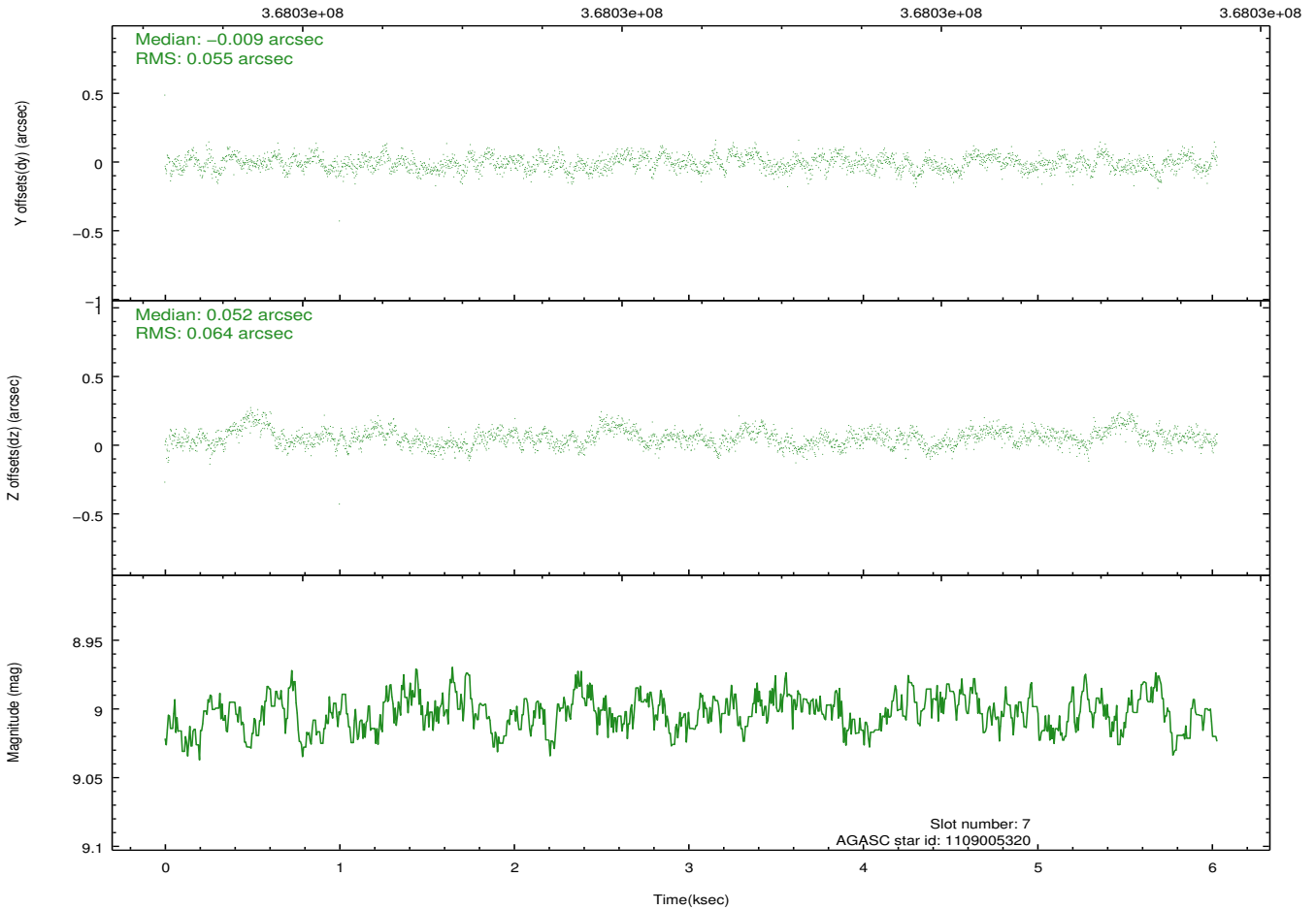
## 2.4.4 Slot 6



### 2.4.5 Slot 7

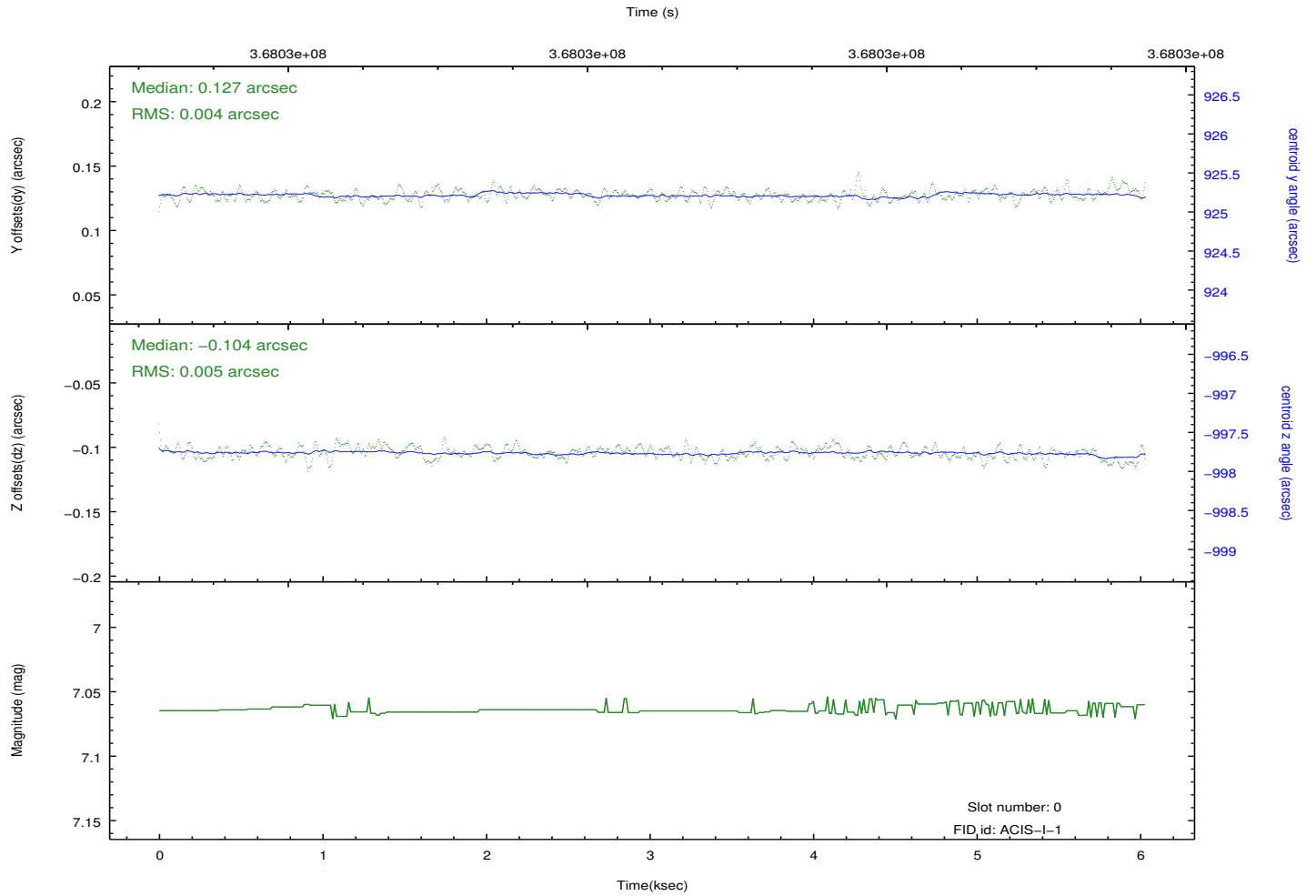
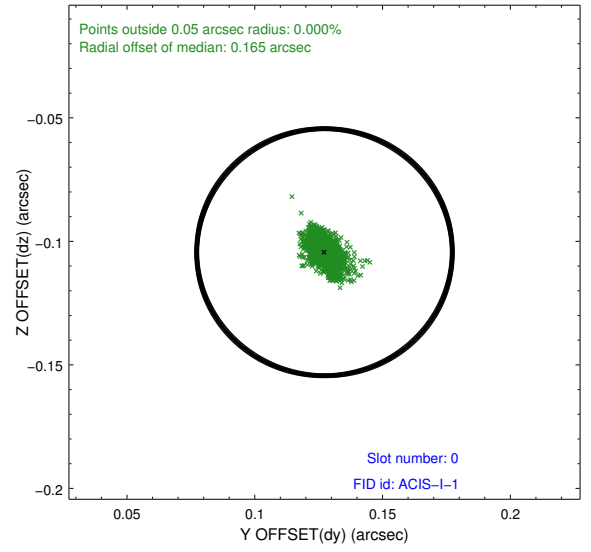
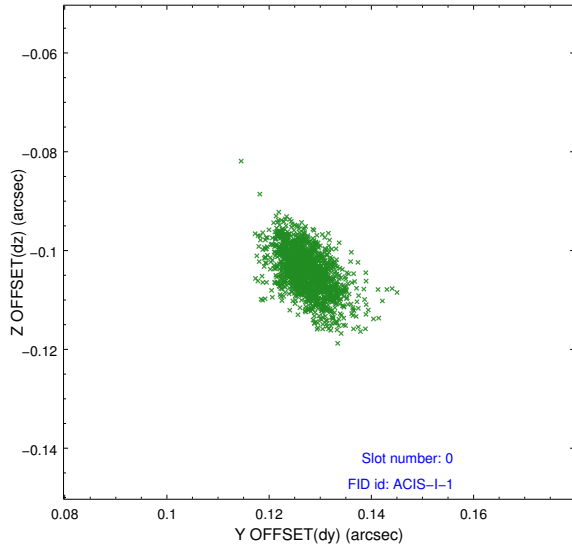


Time (s)

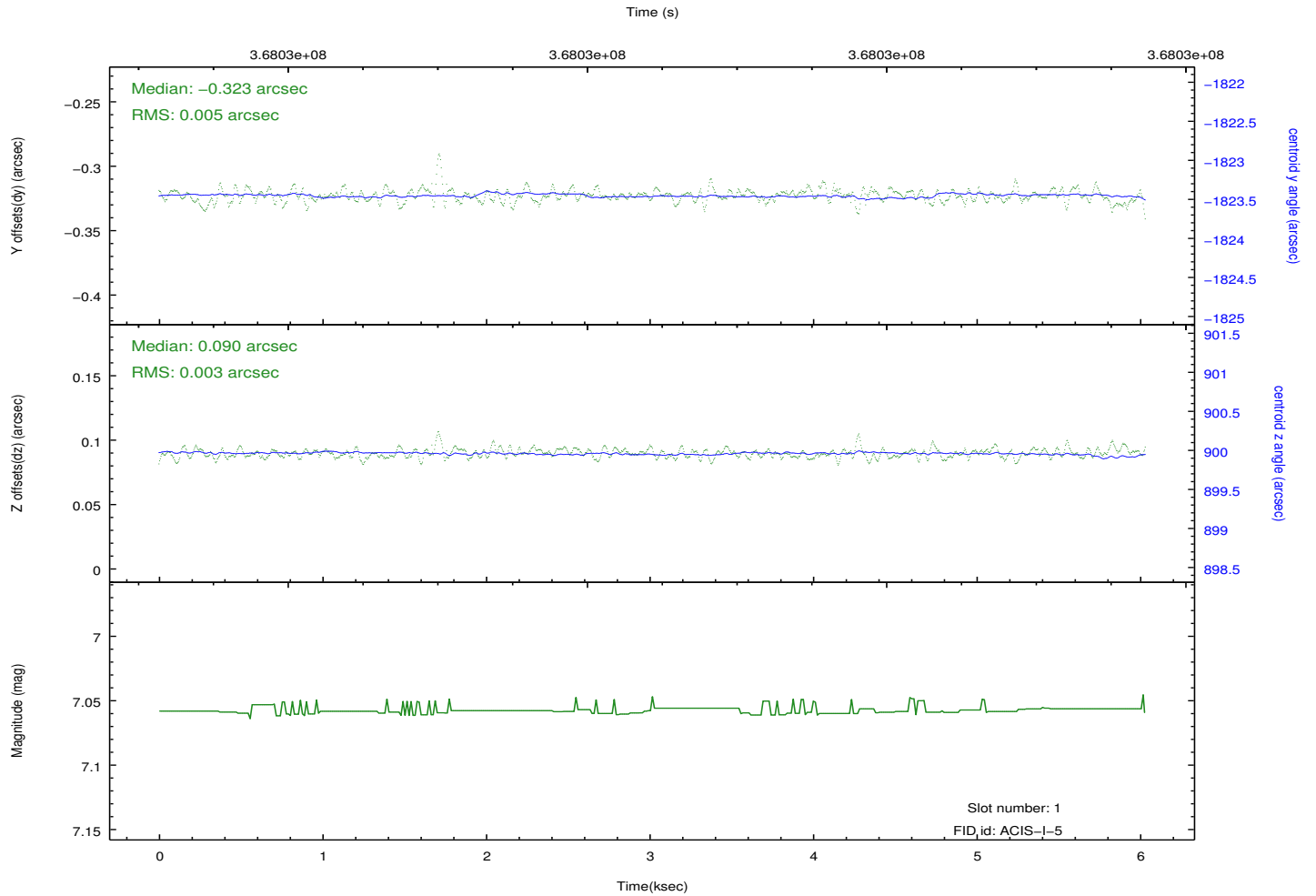
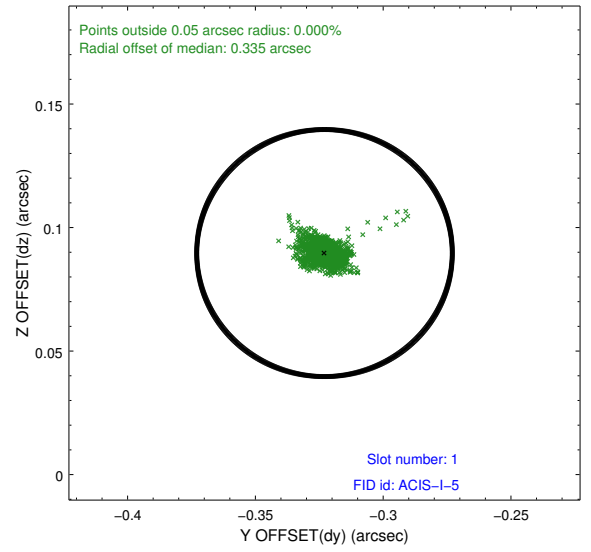
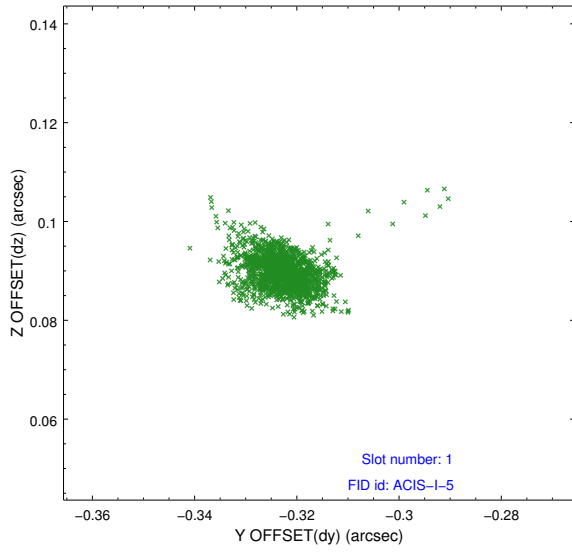


## 2.5 FID Slots

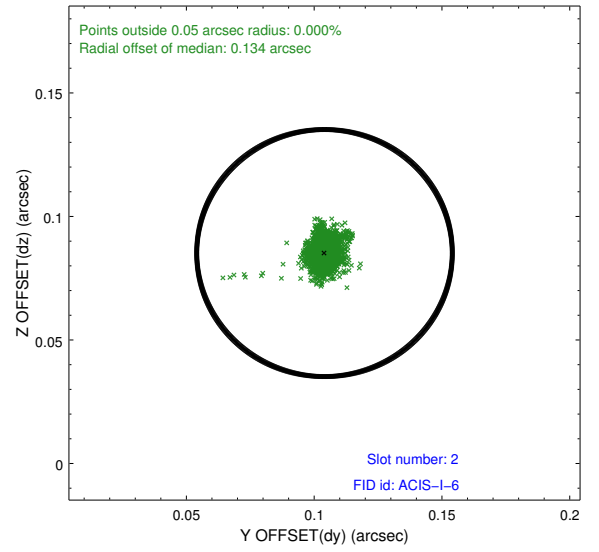
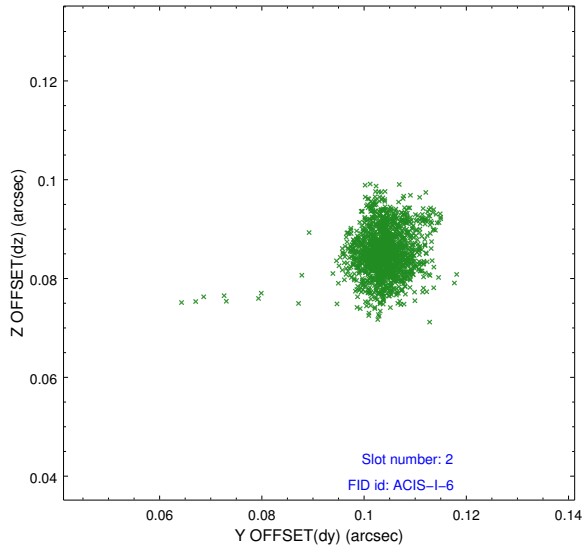
### 2.5.1 Slot 0



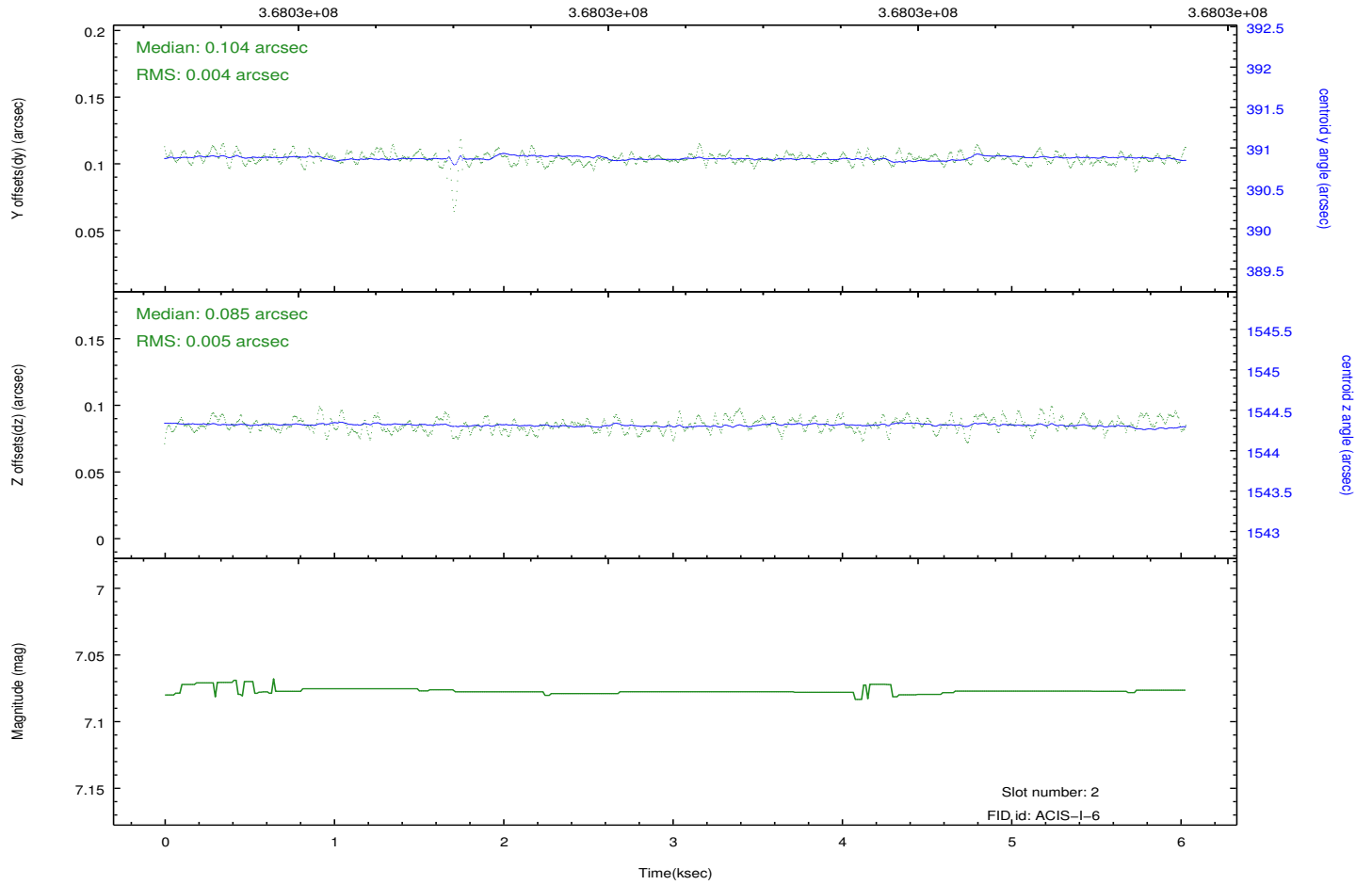
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.02635903

## A.2 Comments