

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7817 - L2 Version 2  
Chandra X-Ray Center

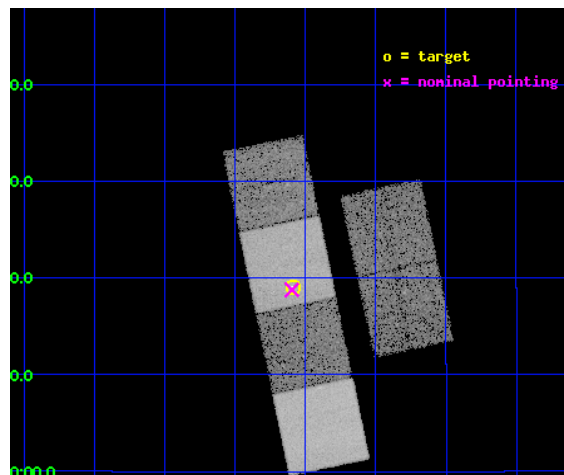
L2 Processing Date : Apr 30 2012

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# 1 Front

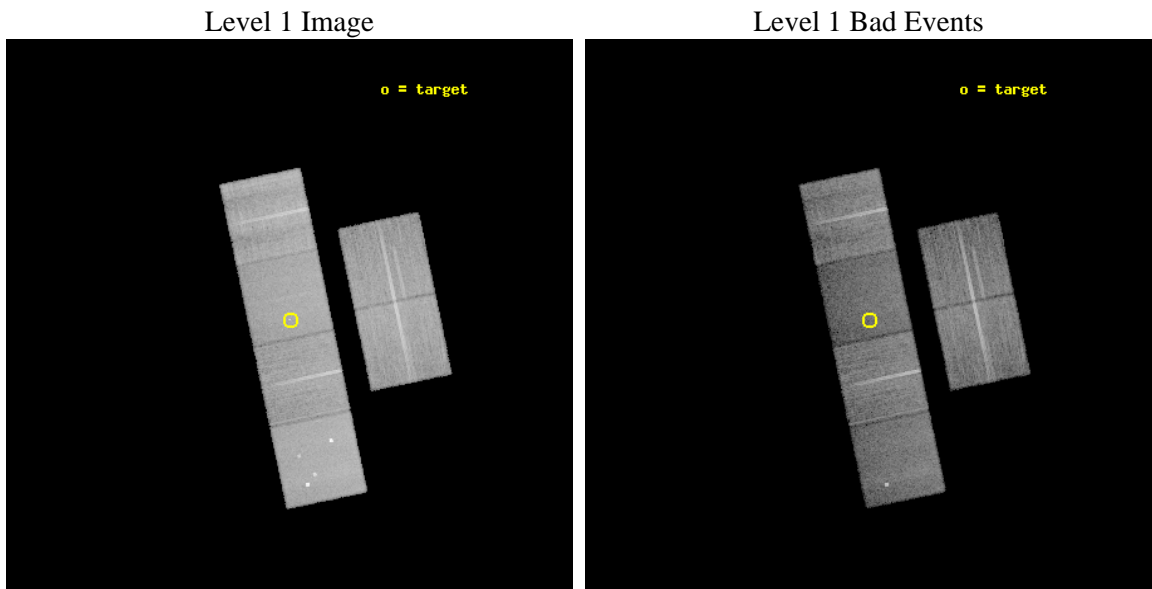
seq_num	701481	Sequence number
obs_id	7817	Observation id
title	The Chandra-RBGS Survey of a Complete Sample of Luminous Infrared Galaxies	Proposal title
observer	Professor David Sanders	Principal investigator
object	IRAS 19542+1110	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.1475	Observer's specified target RA [deg]
dec_targ	11.317389	Observer's specified target Dec [deg]
ra_nom	299.14919855625	Nominal RA [deg]
dec_nom	11.312806987395	Nominal Dec [deg]
roll_nom	258.15630104438	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15167.999943554	Sum of GTIs [s]
livetime	14975.933595196	Livetime [s]
ontime2	15167.999943554	Sum of GTIs [s]
ontime3	15167.999943554	Sum of GTIs [s]
ontime5	15167.999943554	Sum of GTIs [s]
ontime6	15158.276972711	Sum of GTIs [s]
ontime7	15167.999943554	Sum of GTIs [s]
ontime8	15164.758943319	Sum of GTIs [s]
l2events	183245	Number of level 2 events



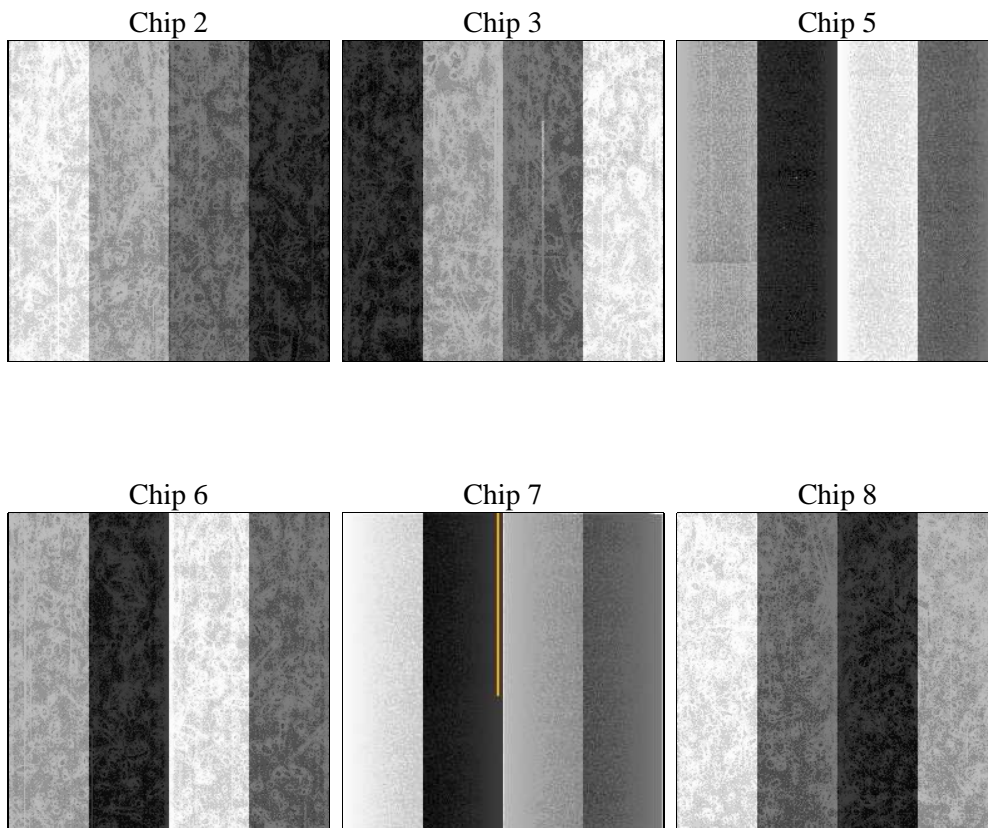
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15167.999943554	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	15167.999943554	Sum of GTIs [s]
date	2012-04-30T15:15:31	Date and time of file creation	ontime3	15167.999943554	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15167.999943554	Sum of GTIs [s]
			ontime6	15158.276972711	Sum of GTIs [s]
			ontime7	15167.999943554	Sum of GTIs [s]
			ontime8	15164.758943319	Sum of GTIs [s]
			l1events	864733	Number of level 1 events

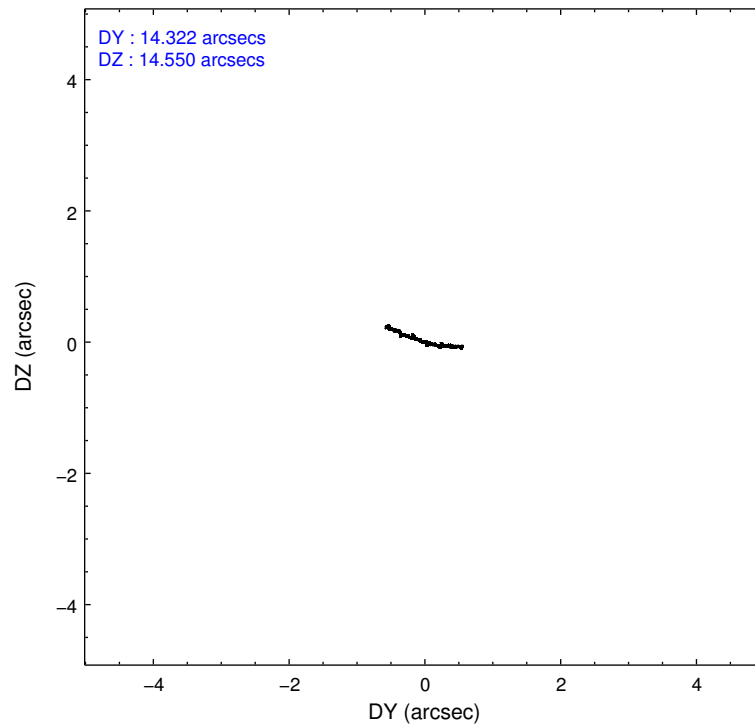
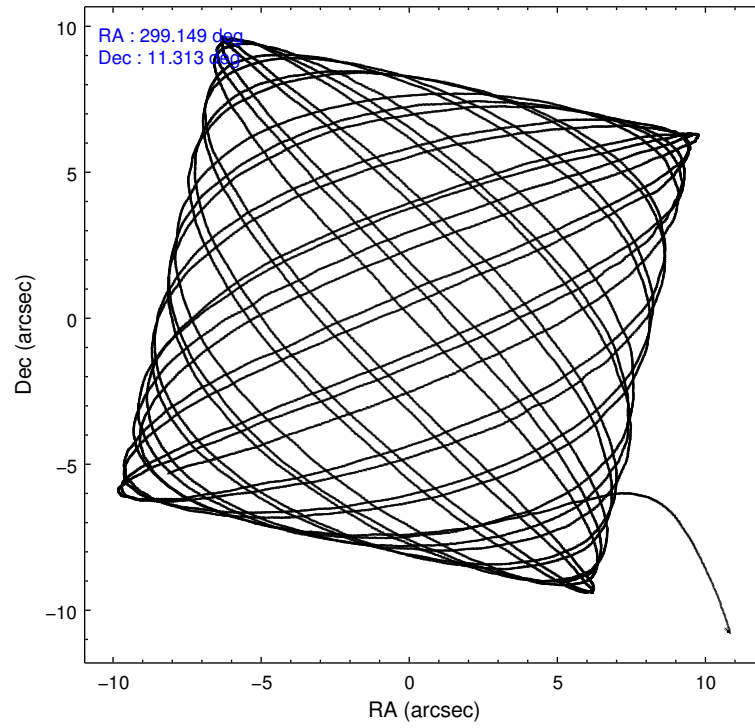
### 2.1.4 Events

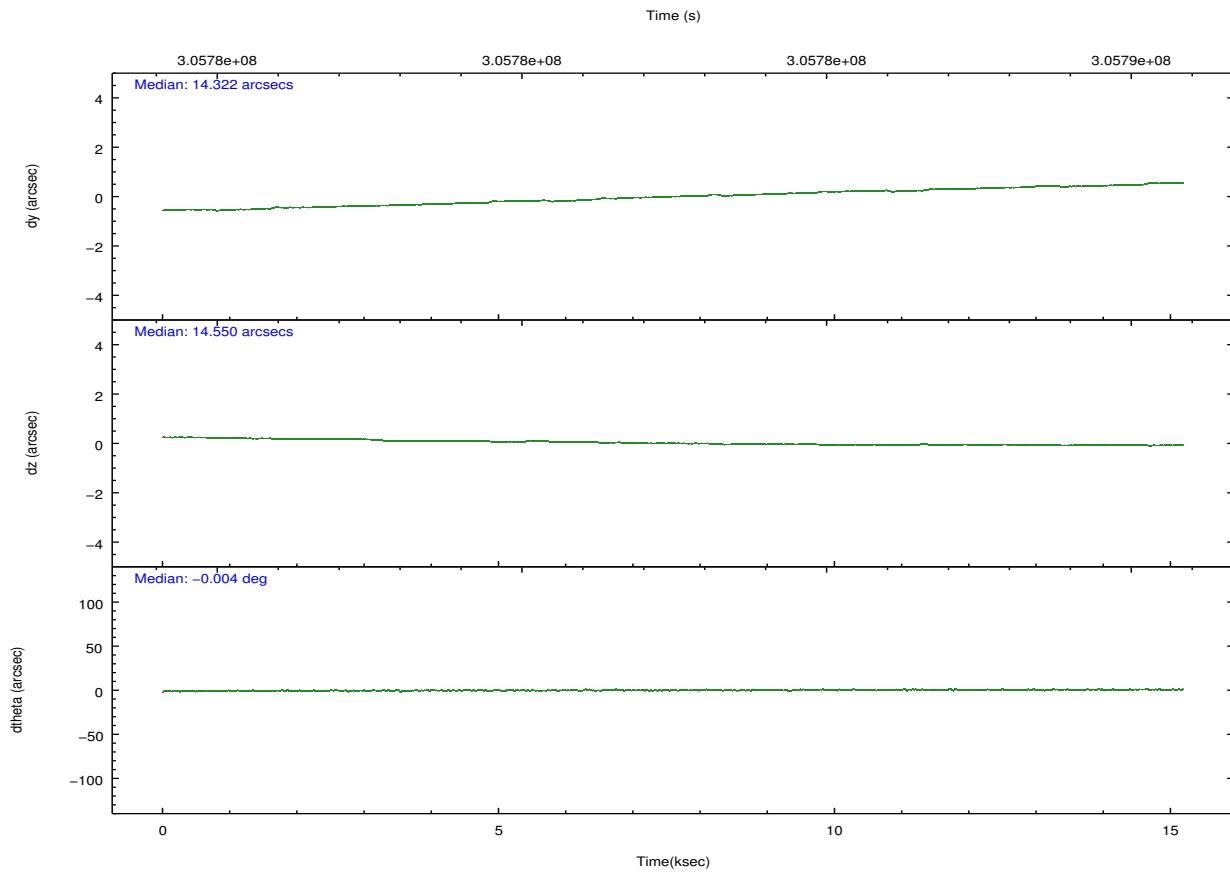
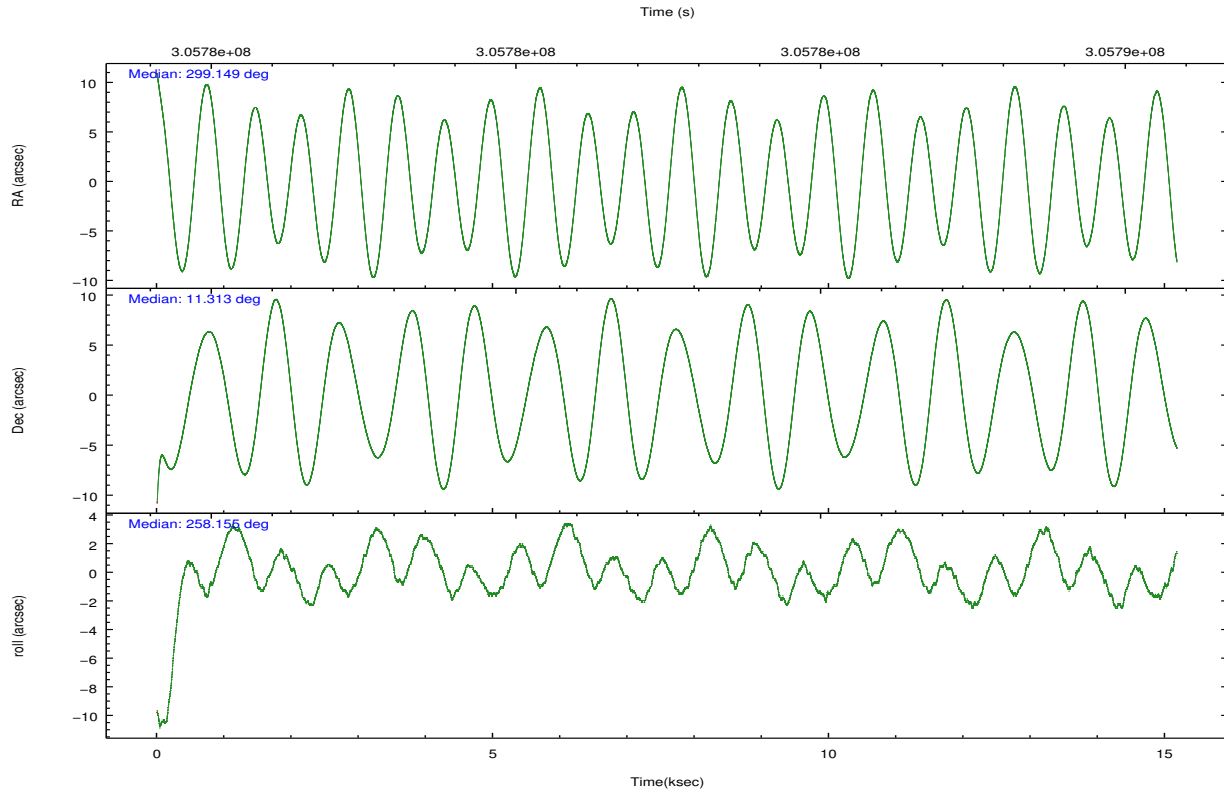
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	136303	119548	179650	128940	139405	160887	grade 0 events	4338	4112	11567	4755	5997	11964
rejected events	124368	108589	91100	116295	77273	122129		3%	3%	6%	3%	4%	7%
rejected %	91%	90%	50%	90%	55%	75%	grade 1 events	64	81	433	69	197	139
								0%	0%	0%	0%	0%	0%
							grade 2 events	2986	2360	27406	2814	12892	9130
								2%	1%	15%	2%	9%	5%
							grade 3 events	1326	1333	3701	1376	6040	4334
								0%	1%	2%	1%	4%	2%
							grade 4 events	1356	1293	3372	1317	5858	3942
								0%	1%	1%	1%	4%	2%
							grade 5 events	4136	4806	14161	4991	14742	7279
								3%	4%	7%	3%	10%	4%
							grade 6 events	2278	2249	45296	2803	33390	10766
								1%	1%	25%	2%	23%	6%
							grade 7 events	119819	103314	73714	110815	60289	113333
								87%	86%	41%	85%	43%	70%

## 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	299.140129	299.1491985562469	CCD I2 on	O1	Y
[deg] Pointing Dec	11.338694	11.31280698739482	CCD I3 on	O2	Y
[deg] Pointing Roll	258.001453	258.1563010443842	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	305775066.184000	305773607.56938	CCD S5 on	N	N
Observation start date	2007-09-10T01:30:01	2007-09-10T01:06:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	305790066.184000	305790528.7827	On-chip summing requested	N	N
Observation end date	2007-09-10T05:40:01	2007-09-10T05:48:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



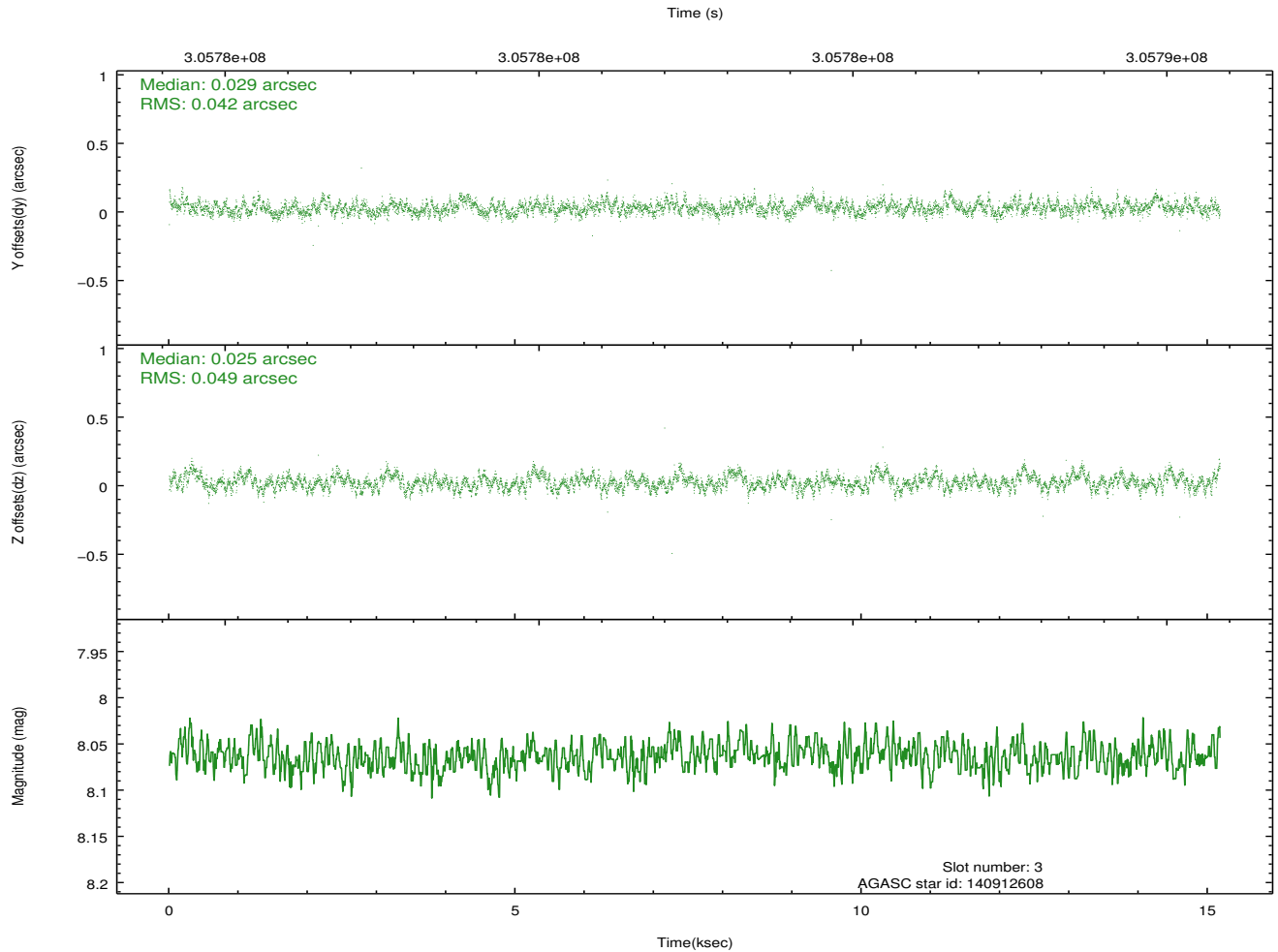
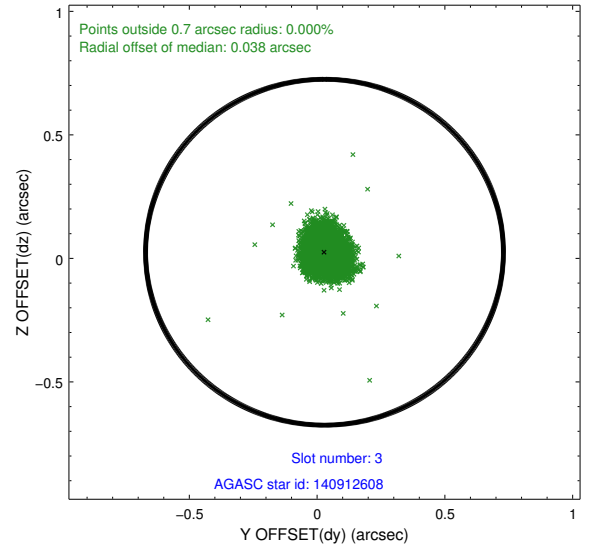
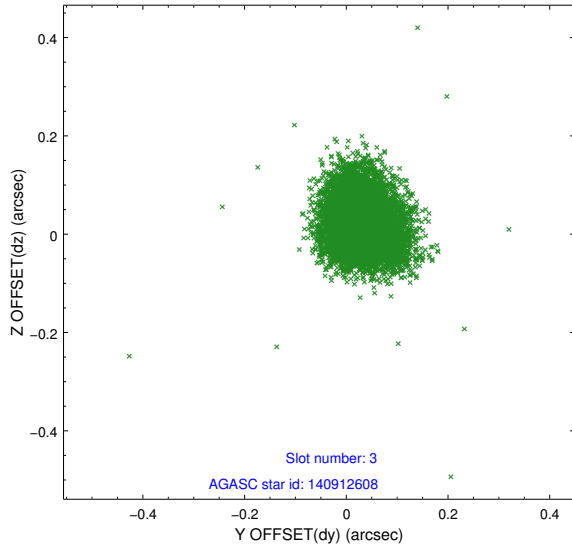


### Slot Statistics

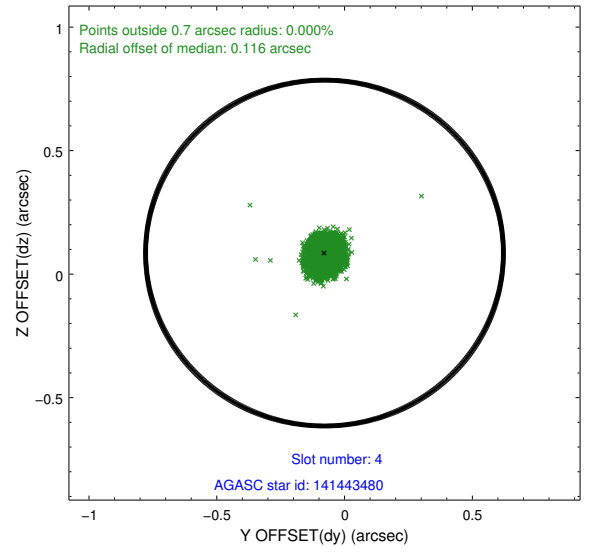
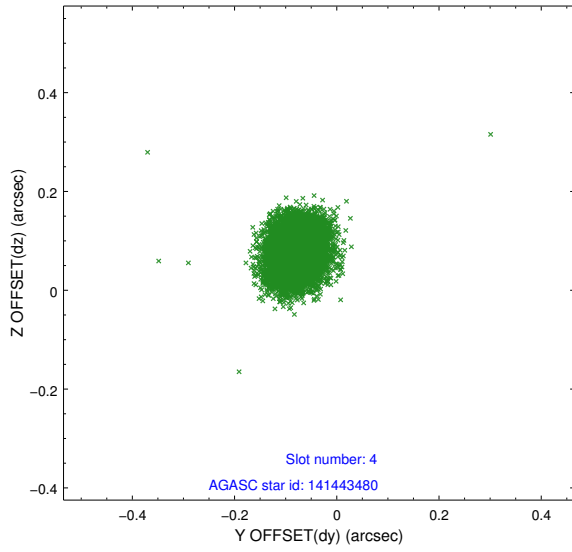
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3702	-0.082	-0.047	0.014	0.021	0.000000	0.000000	-767.32	-1736.01
1	FID	ACIS-S-4	7.19	3702	0.212	0.052	0.010	0.018	0.000000	0.000000	2146.10	172.29
2	FID	ACIS-S-5	7.22	3702	-0.161	0.004	0.008	0.013	0.000000	0.000000	-1819.88	166.22
3	GUIDE	140912608	8.06	7403	0.029	0.025	0.068	0.109	299.560338	10.727950	1840.79	1910.89
4	GUIDE	141443480	7.65	7404	-0.079	0.085	0.050	0.080	299.015789	11.932401	-1999.40	-872.41
5	GUIDE	140904672	8.87	7395	0.140	-0.014	0.089	0.140	298.790323	10.740939	2359.28	-763.85
6	GUIDE	140920336	8.39	7403	0.072	0.031	0.067	0.105	299.691686	10.706891	1818.55	2380.54
7	GUIDE	141446792	8.90	7395	-0.162	-0.126	0.075	0.122	299.284509	11.937274	-2213.35	49.61

## 2.4 Star Slots

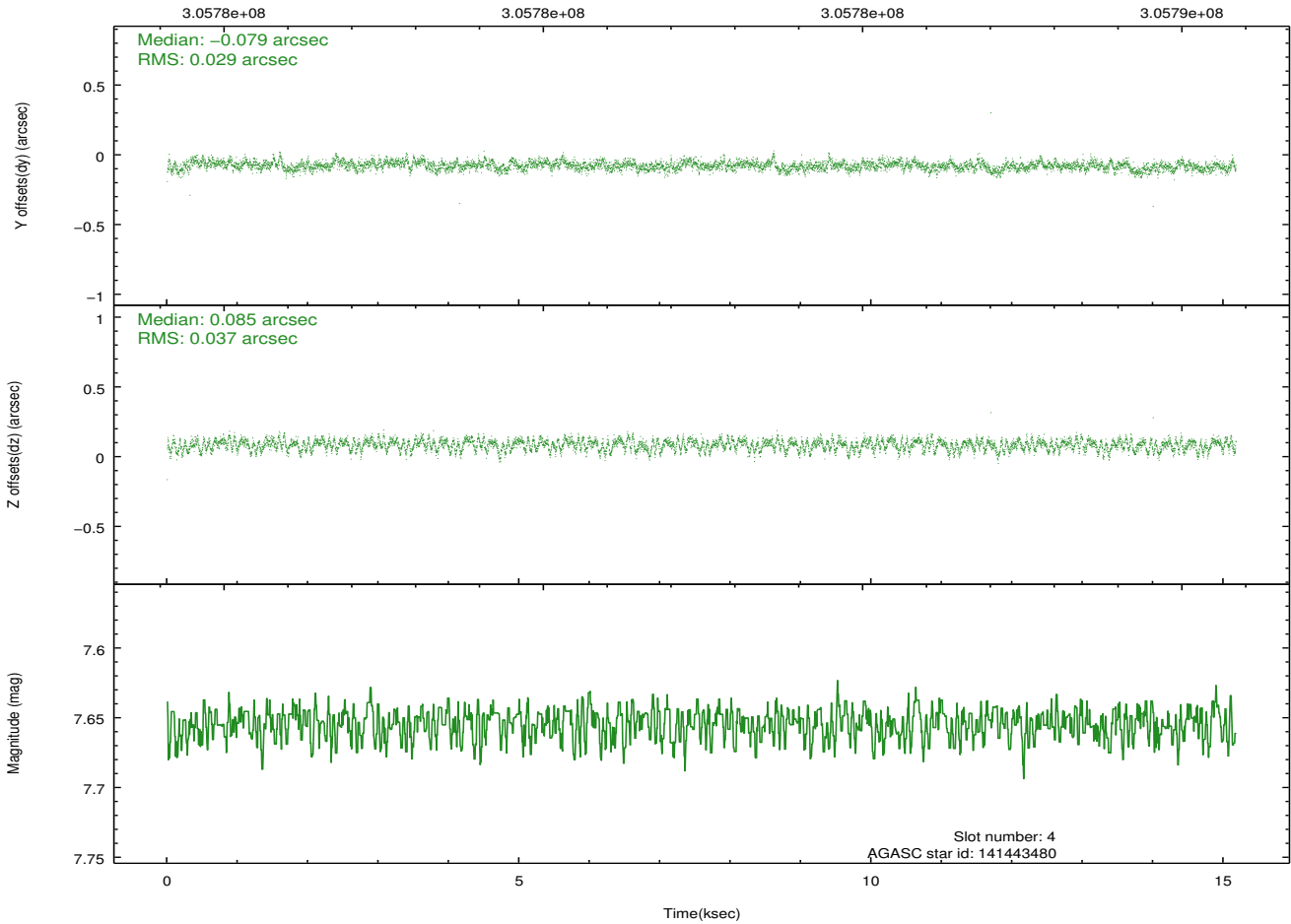
### 2.4.1 Slot 3



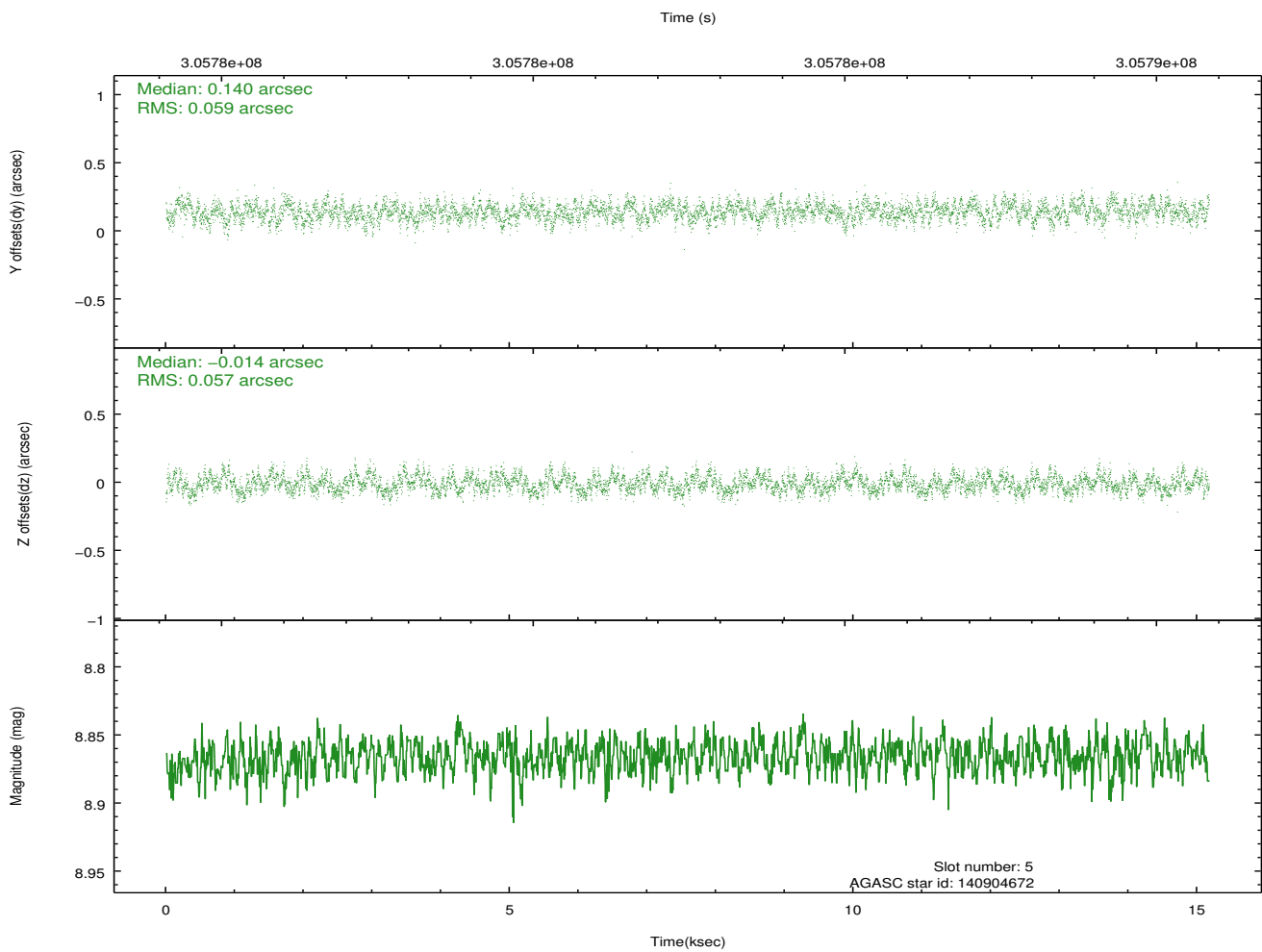
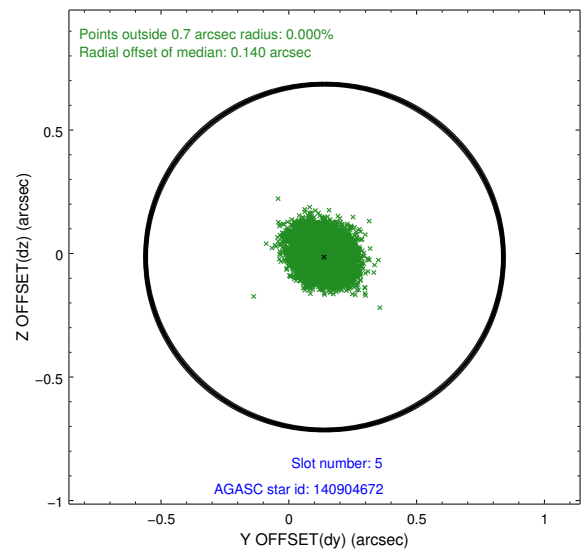
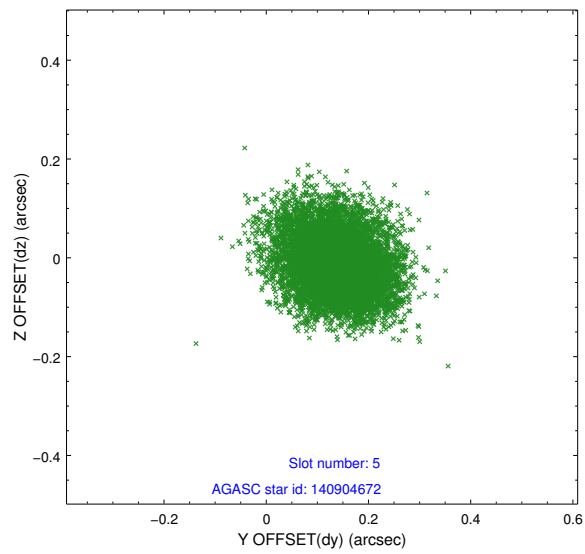
## 2.4.2 Slot 4



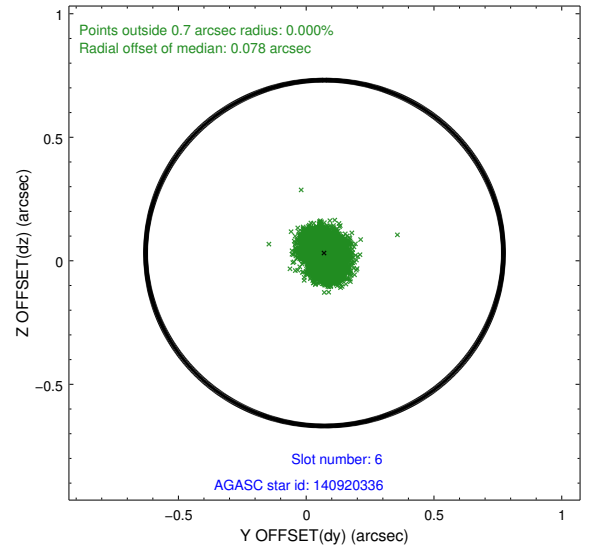
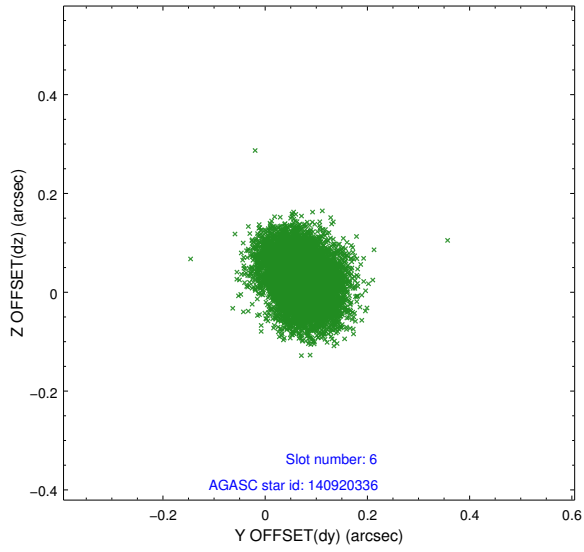
Time (s)



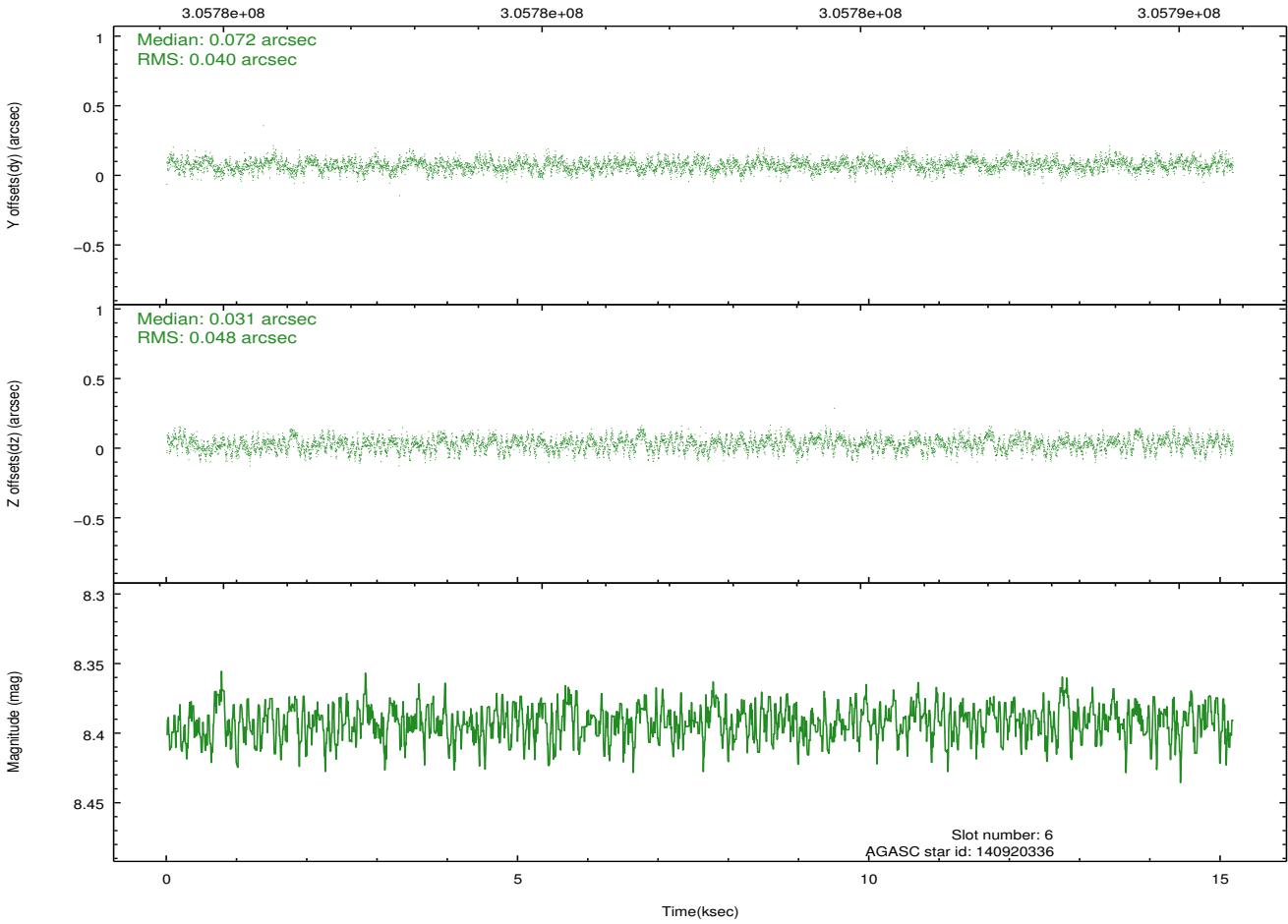
### 2.4.3 Slot 5



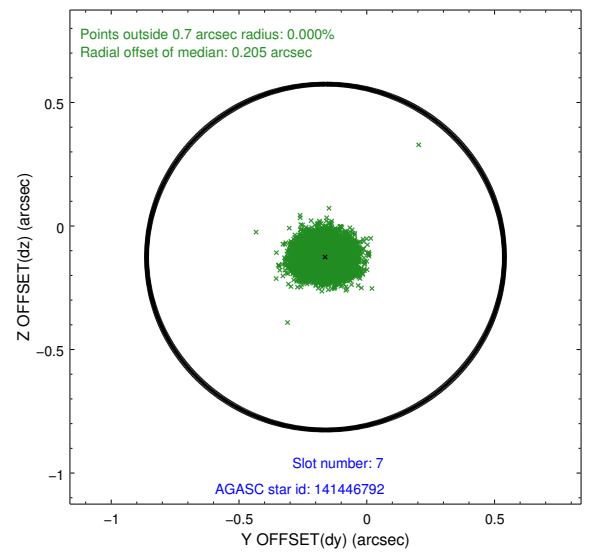
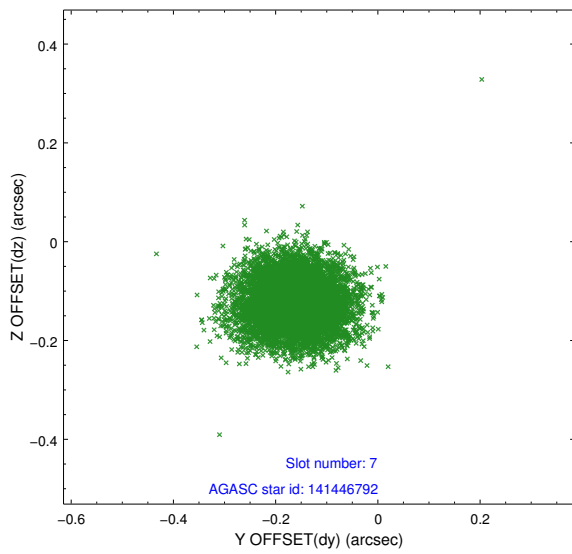
### 2.4.4 Slot 6



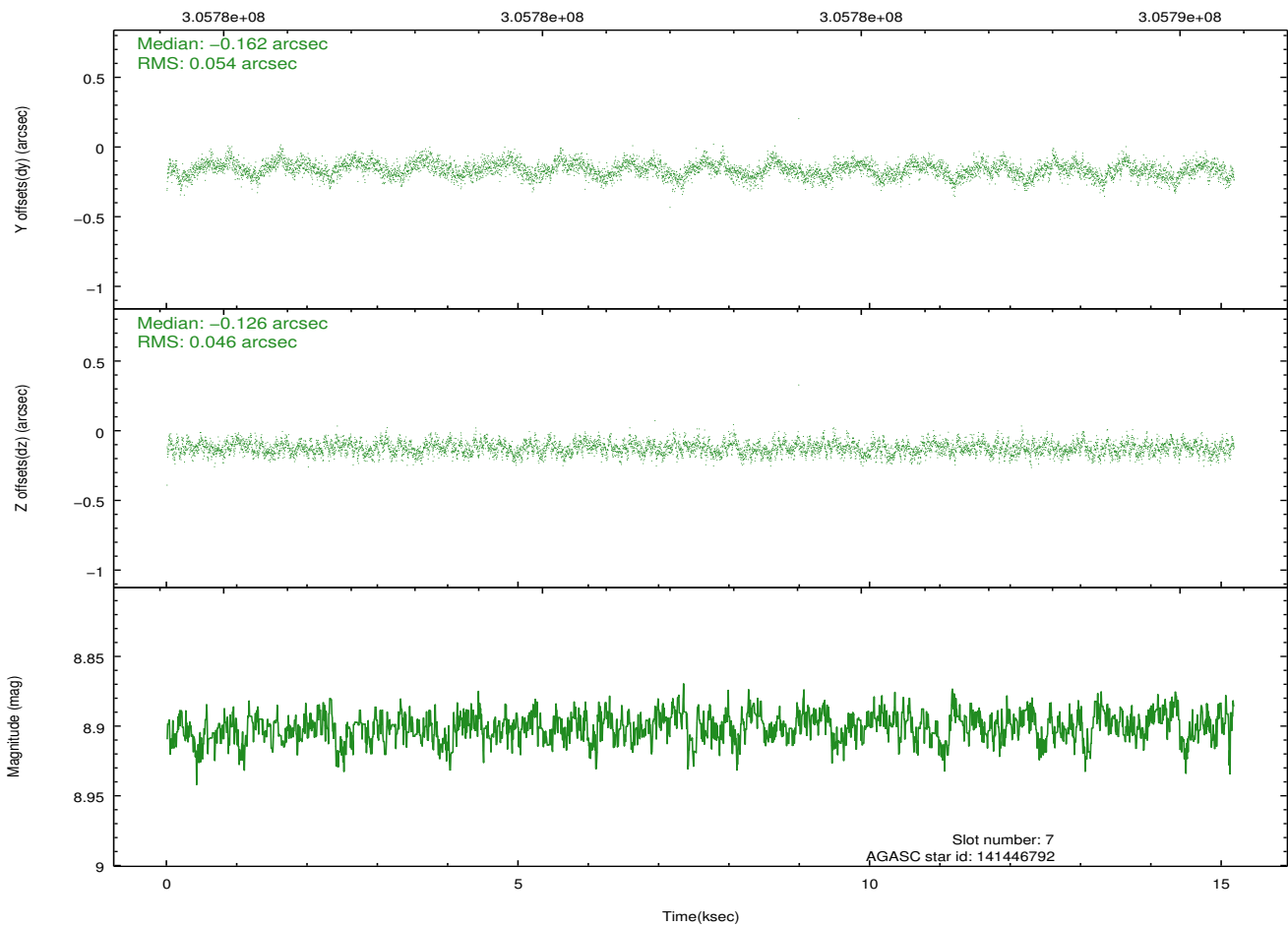
Time (s)



## 2.4.5 Slot 7

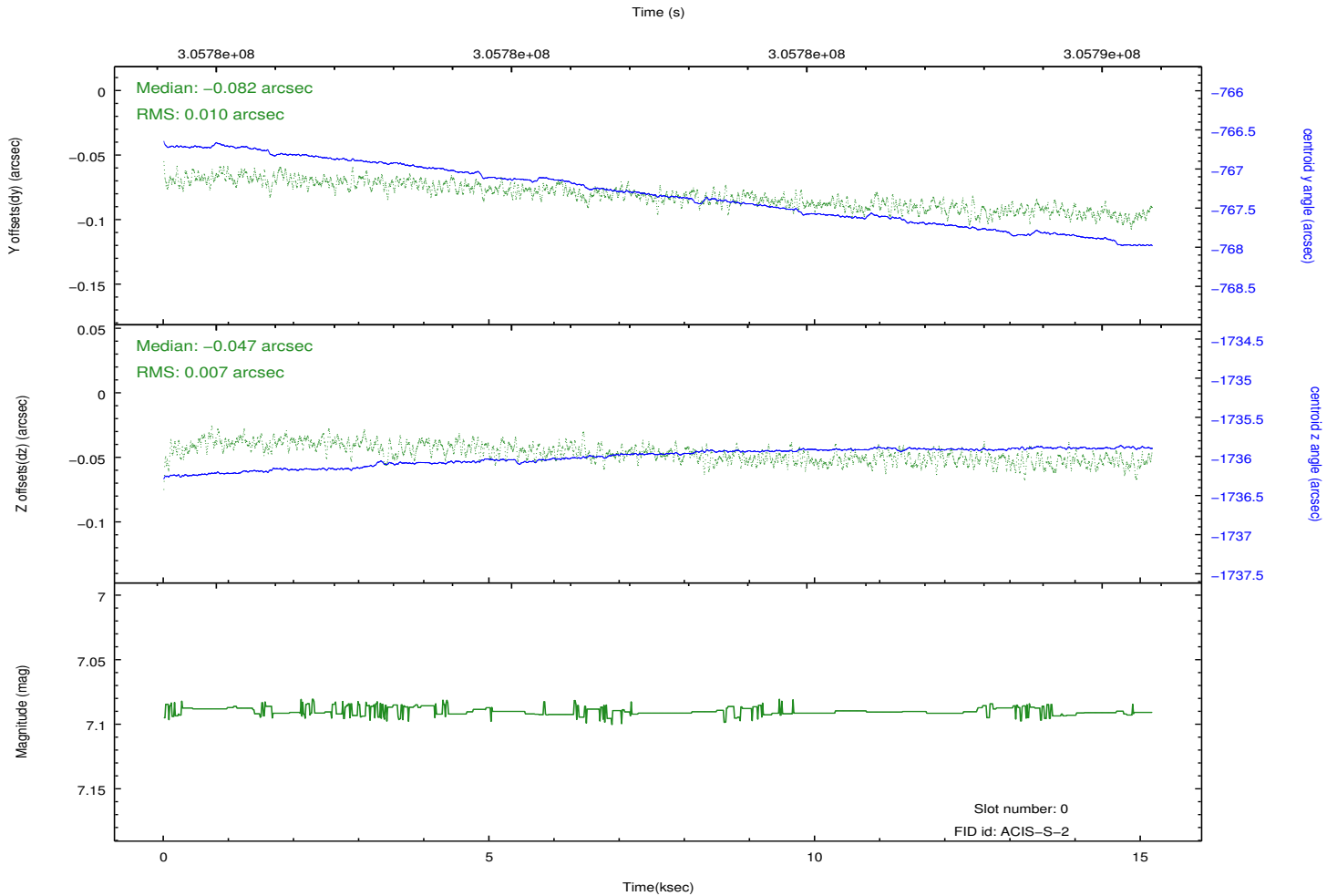
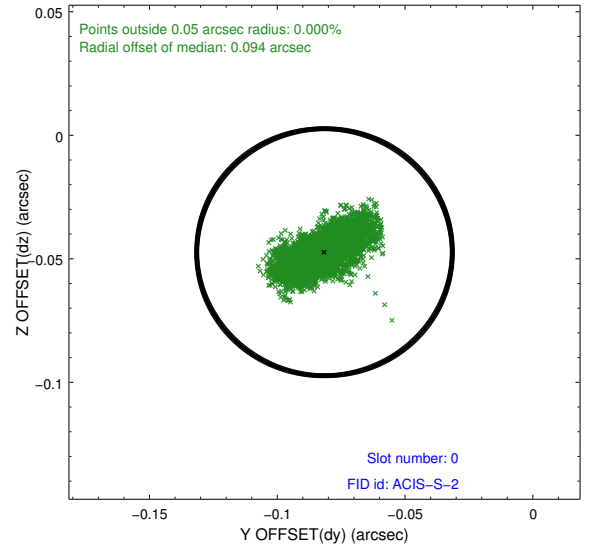
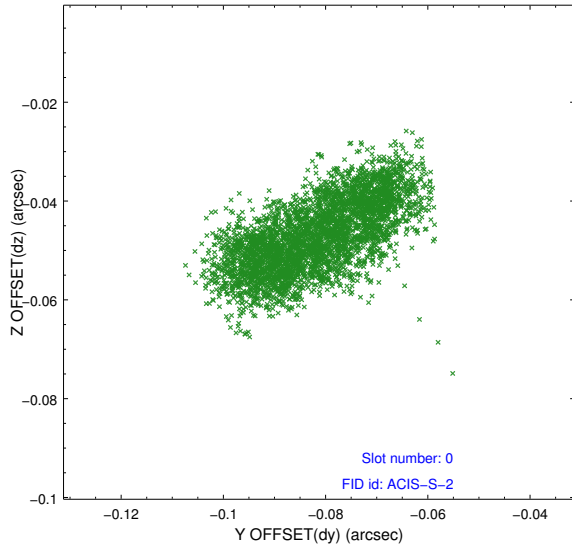


Time (s)

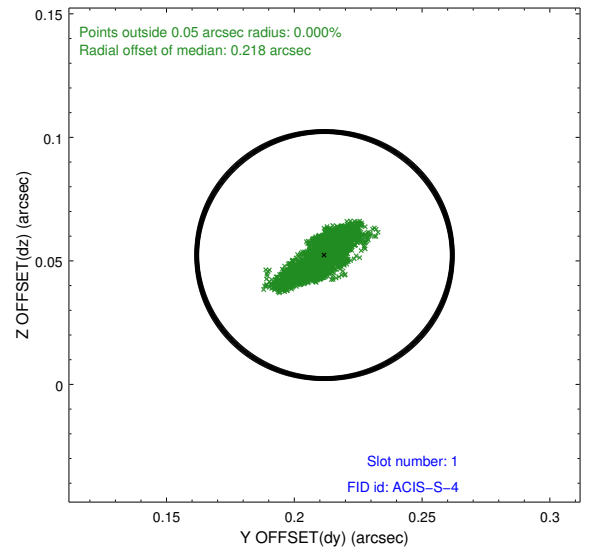
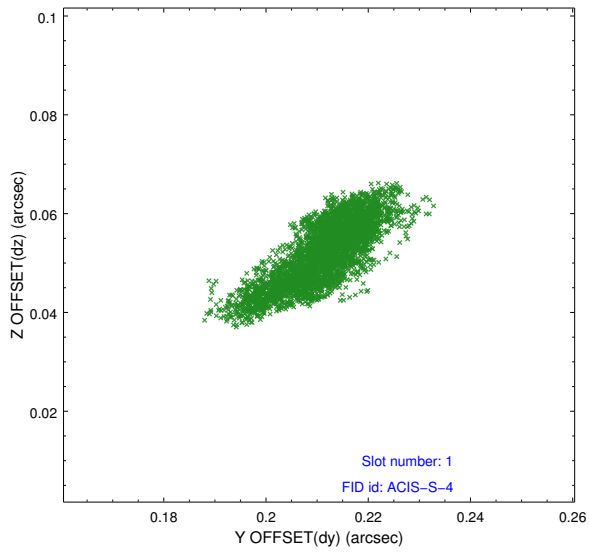


## 2.5 FID Slots

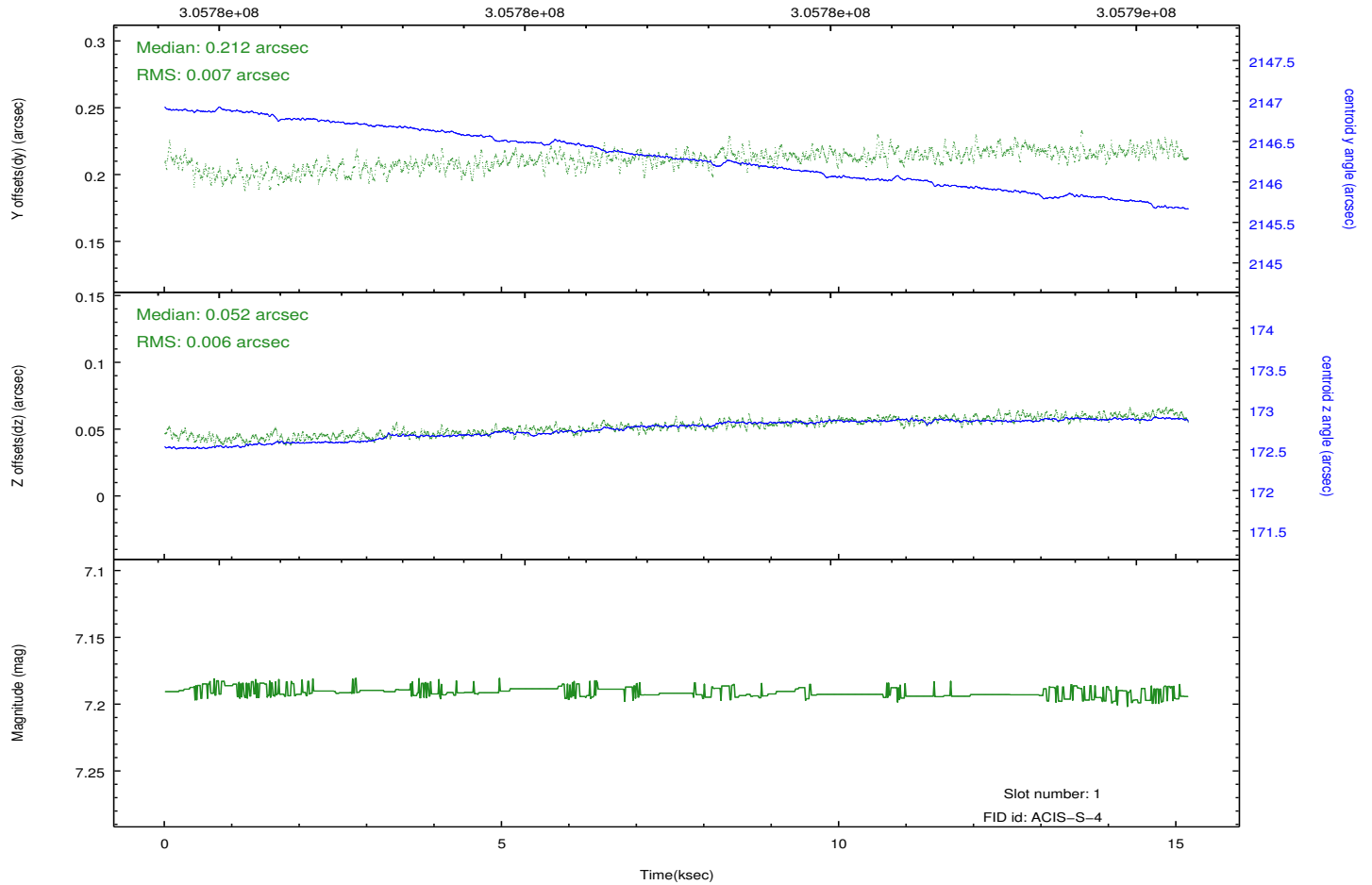
### 2.5.1 Slot 0



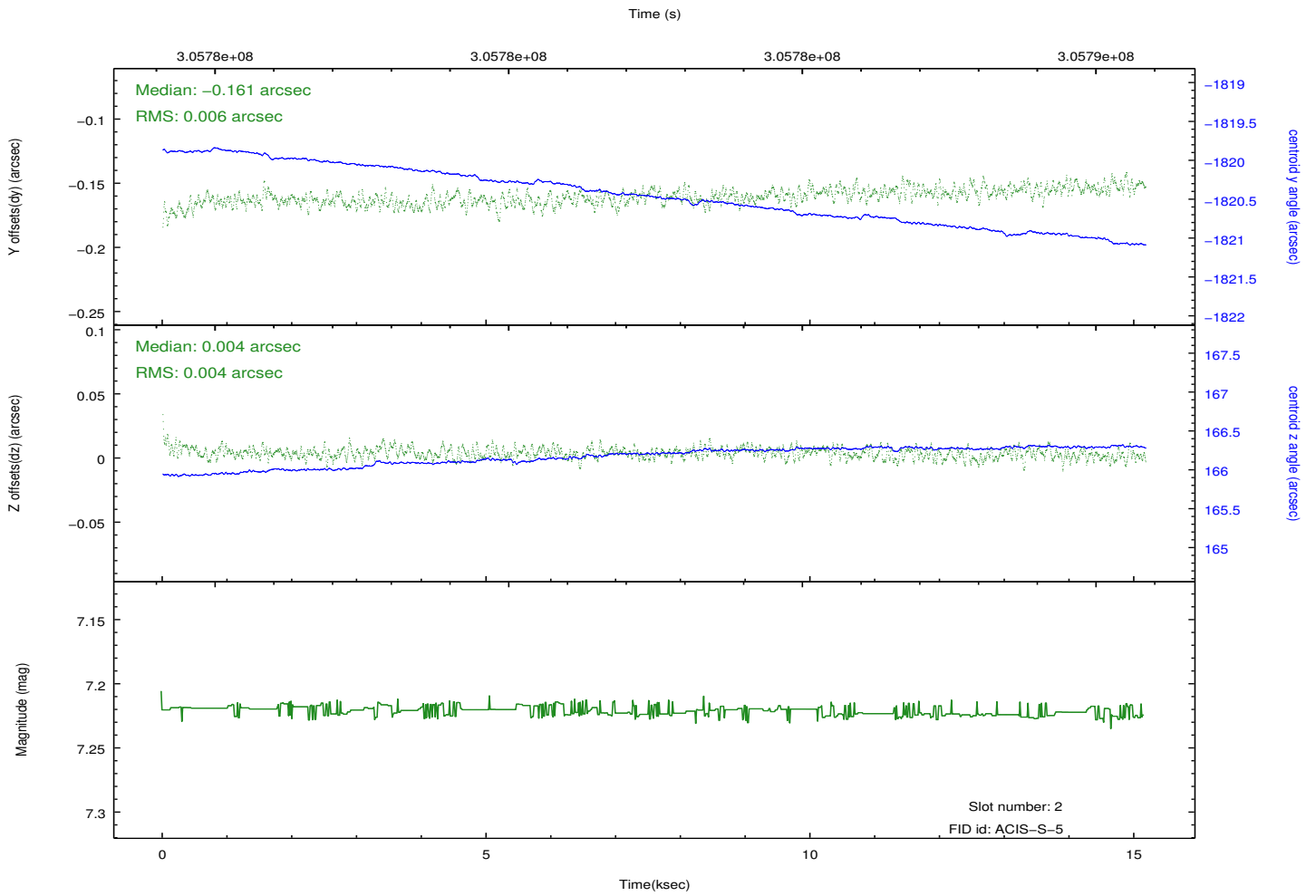
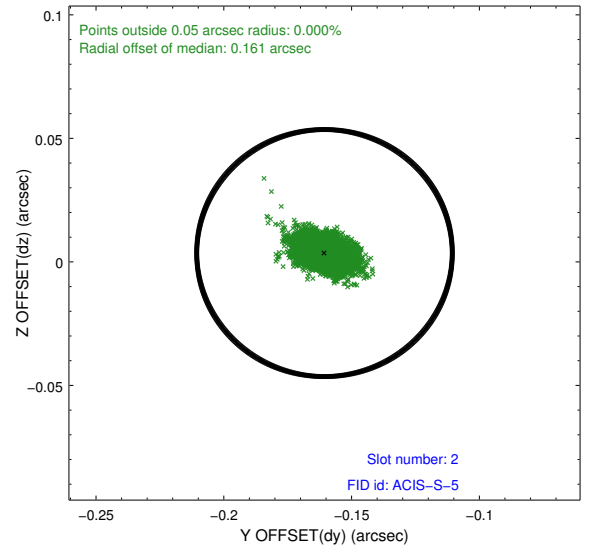
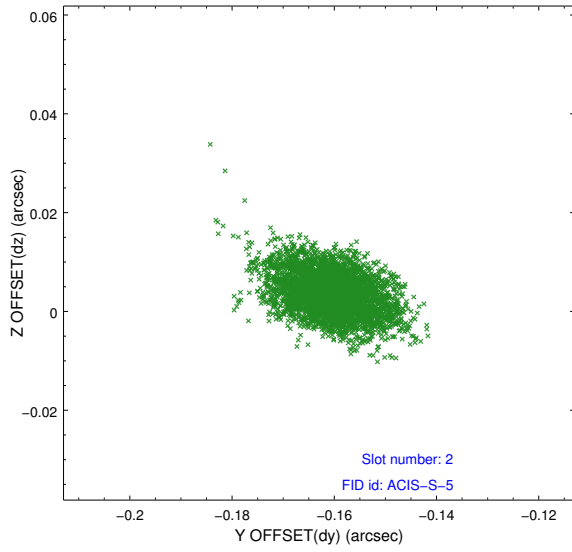
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1679999

### A.2 Comments