

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13772 - L2 Version 1  
Chandra X-Ray Center

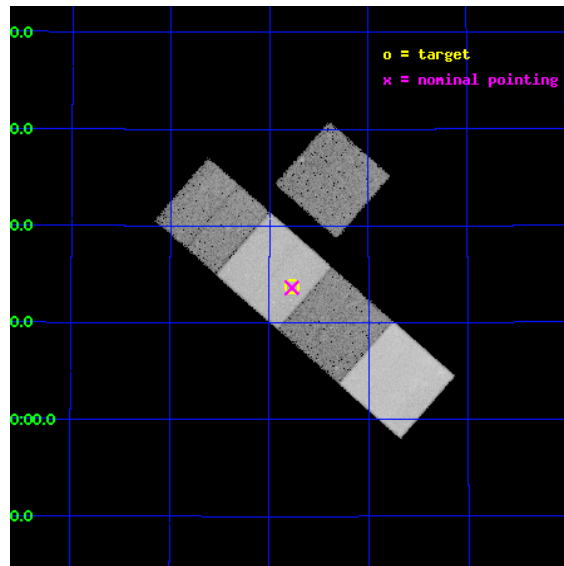
L2 Processing Date : Jun 12 2012

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# 1 Front

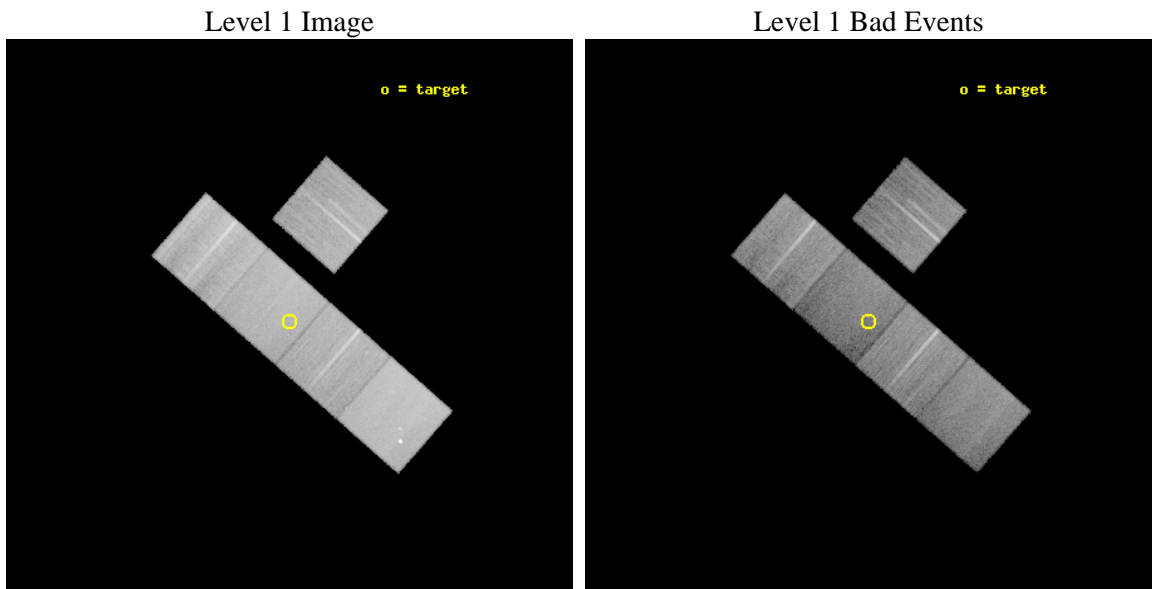
seq_num	501604	Sequence number
obs_id	13772	Observation id
title	Investigating the Emission of Extraordinarily Luminous and Unusual Supernovae	Proposal title
observer	Prof. David Pooley	Principal investigator
object	PTF12dam	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.1925	Observer's specified target RA [deg]
dec_targ	46.230083	Observer's specified target Dec [deg]
ra_nom	216.19315633033	Nominal RA [deg]
dec_nom	46.227082725751	Nominal Dec [deg]
roll_nom	221.15615421502	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36064.730015159	Sum of GTIs [s]
livetime	35593.517767043	Livetime [s]
ontime3	36061.465924799	Sum of GTIs [s]
ontime5	36064.688975155	Sum of GTIs [s]
ontime6	36064.647935152	Sum of GTIs [s]
ontime7	36064.730015159	Sum of GTIs [s]
ontime8	36058.283864021	Sum of GTIs [s]
l2events	297064	Number of level 2 events



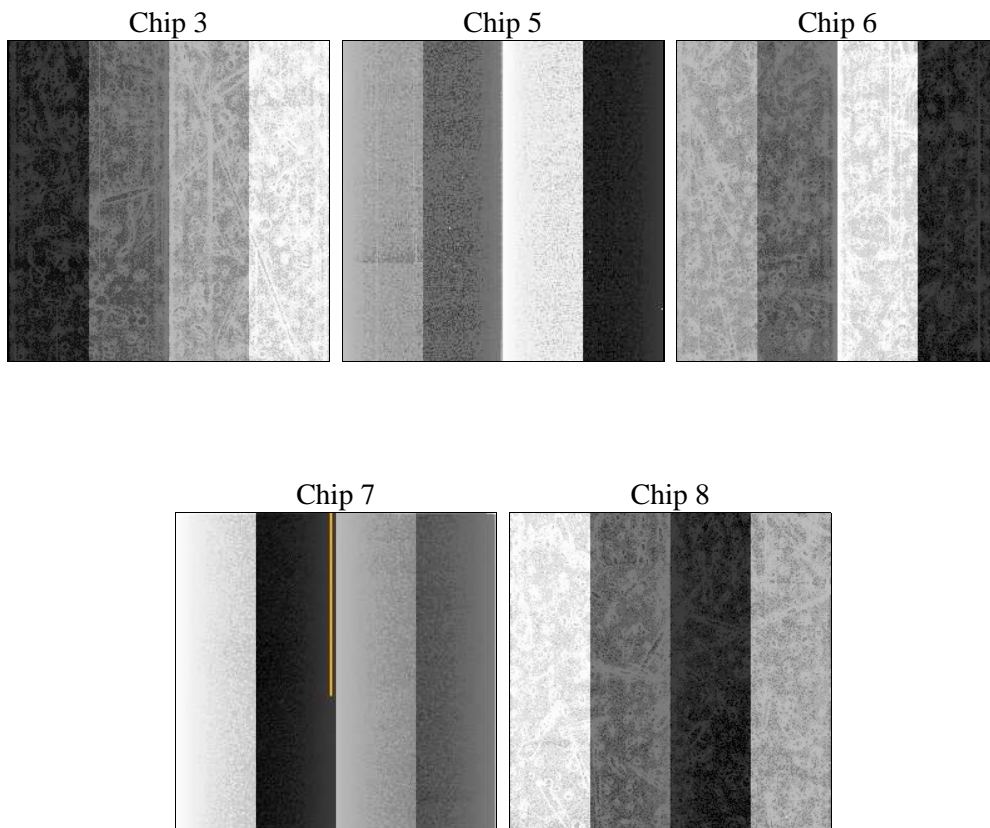
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	36064.730015159	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime3	36061.465924799	Sum of GTIs [s]
date	2012-06-12T20:35:37	Date and time of file creation	ontime5	36064.688975155	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	36064.647935152	Sum of GTIs [s]
			ontime7	36064.730015159	Sum of GTIs [s]
			ontime8	36058.283864021	Sum of GTIs [s]
			l1events	1107247	Number of level 1 events

### 2.1.4 Events

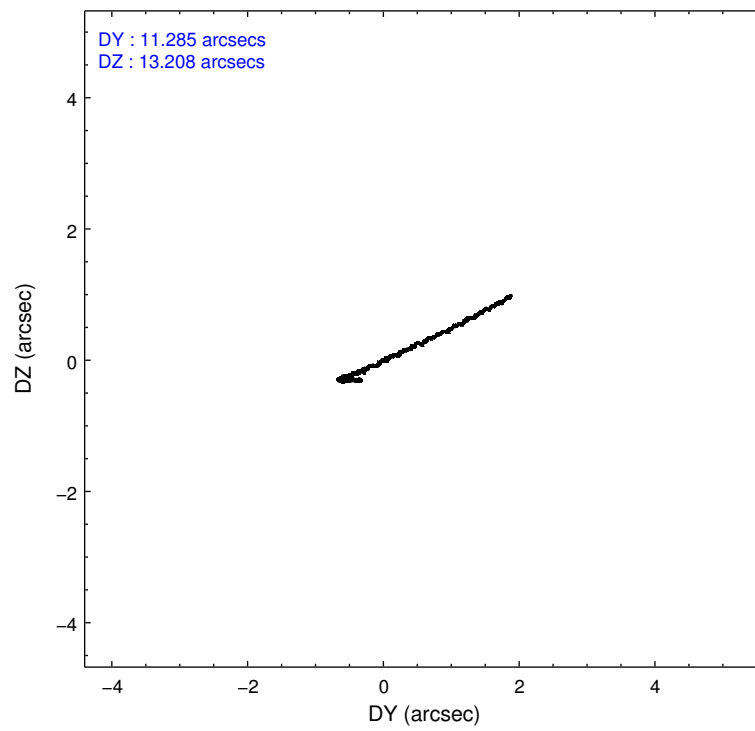
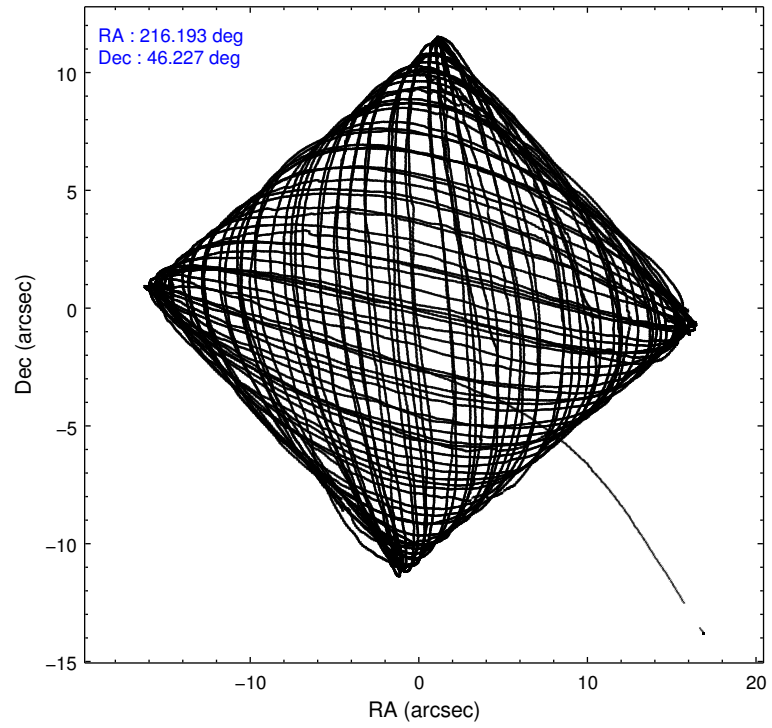
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176247	281241	188923	216967	243869
rejected events	156134	135876	166896	113380	177149
rejected %	88%	48%	88%	52%	72%

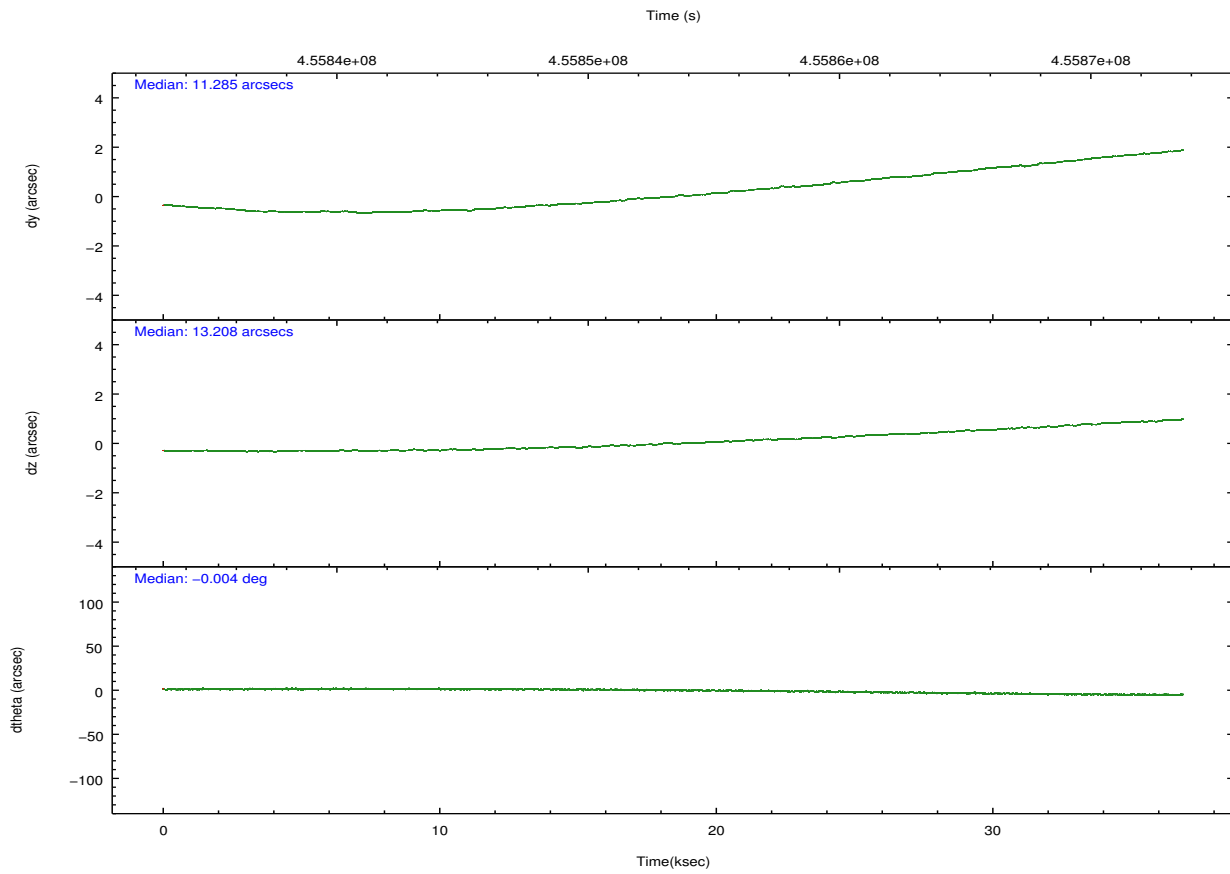
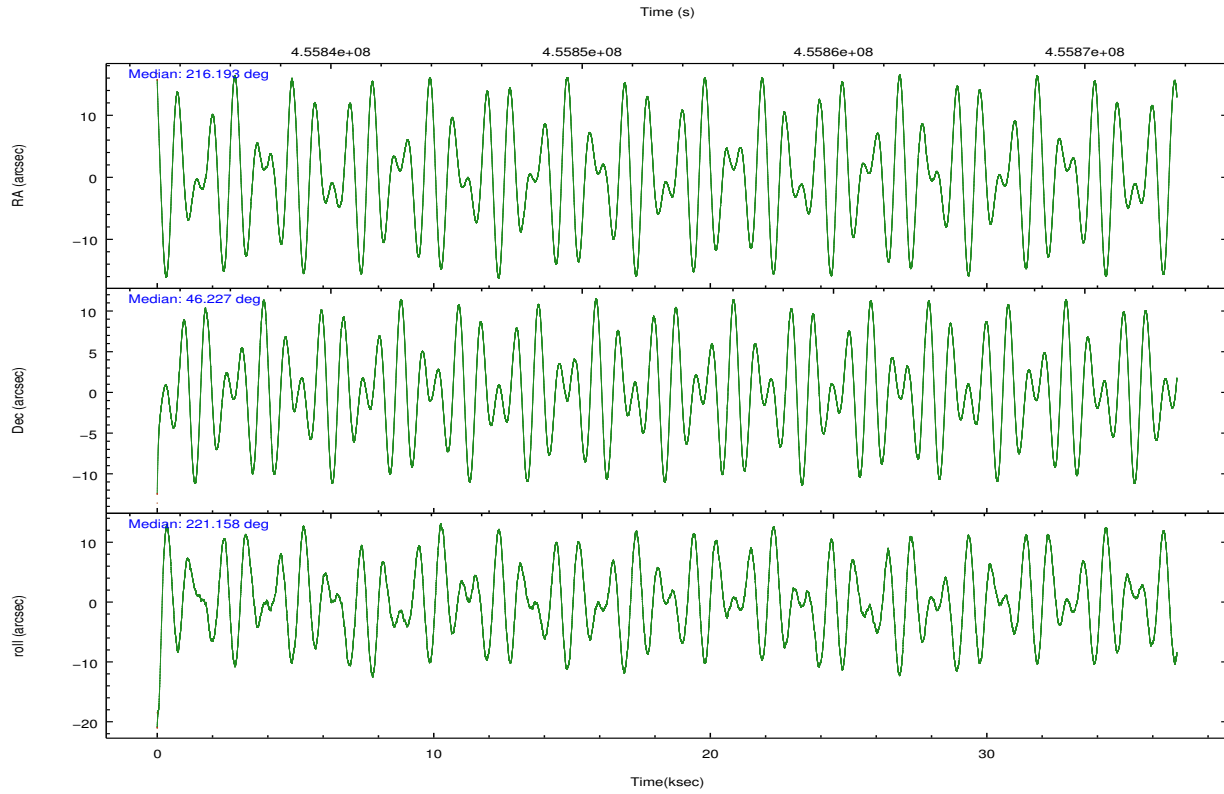
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7199	13309	7810	10263	18566
	4%	4%	4%	4%	7%
grade 1 events	123	587	82	323	192
	0%	0%	0%	0%	0%
grade 2 events	4455	45461	5022	22287	15902
	2%	16%	2%	10%	6%
grade 3 events	2250	5636	2288	9322	7275
	1%	2%	1%	4%	2%
grade 4 events	2201	5504	2189	9074	6802
	1%	1%	1%	4%	2%
grade 5 events	8297	21876	8100	23301	12268
	4%	7%	4%	10%	5%
grade 6 events	4008	75465	4718	52646	18178
	2%	26%	2%	24%	7%
grade 7 events	147714	113403	158714	89751	164686
	83%	40%	84%	41%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	216.205423	216.1931563303316	CCD I2 on	N	N
[deg] Pointing Dec	46.253077	46.22708272575051	CCD I3 on	O1	Y
[deg] Pointing Roll	220.990664	221.1561542150249	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	455835818.184000	455834168.87567	CCD S5 on	N	N
Observation start date	2012-06-11T21:02:32	2012-06-11T20:36:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	455871818.184000	455872664.29022	On-chip summing requested	N	N
Observation end date	2012-06-12T07:02:32	2012-06-12T07:17:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



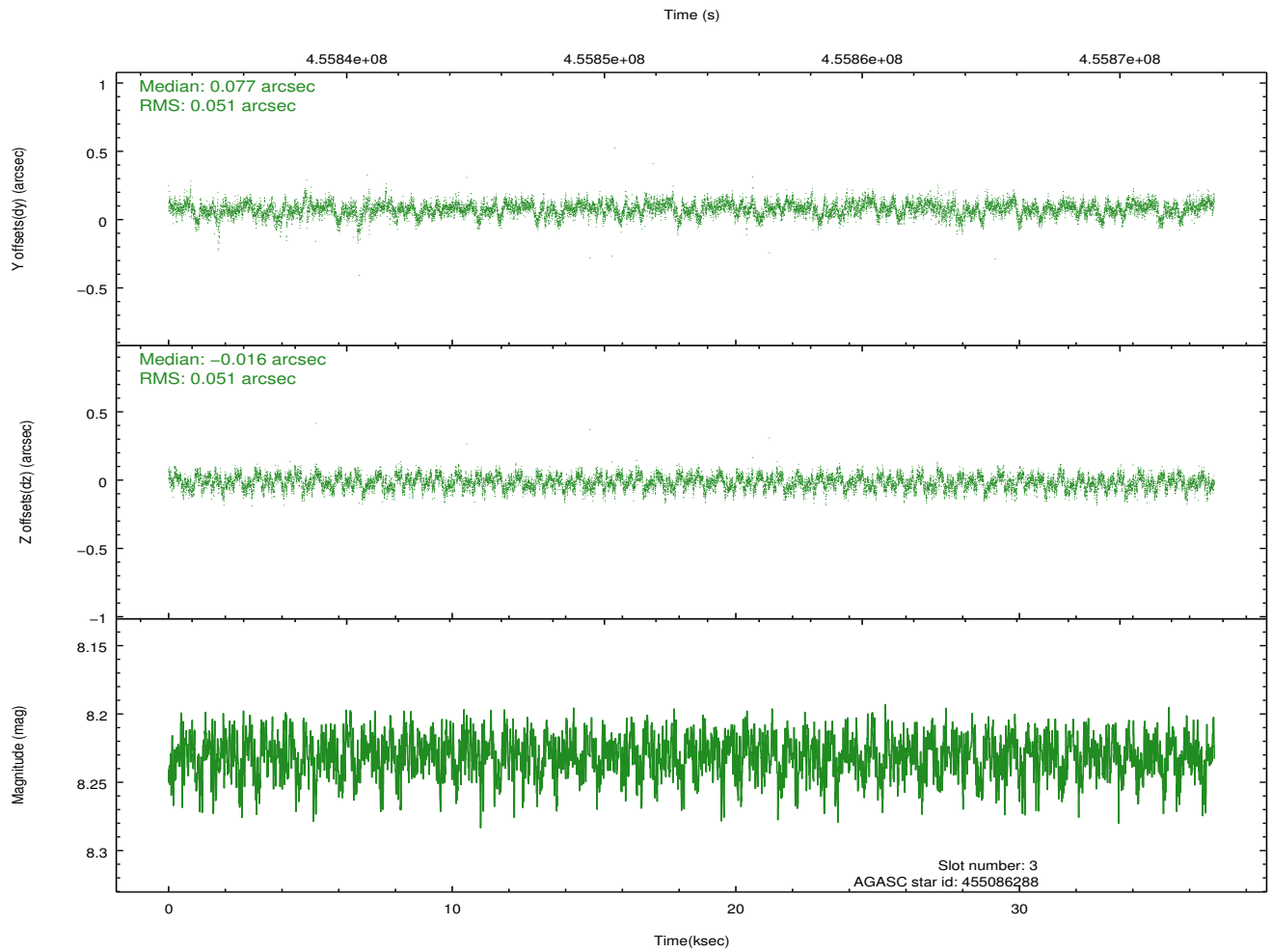
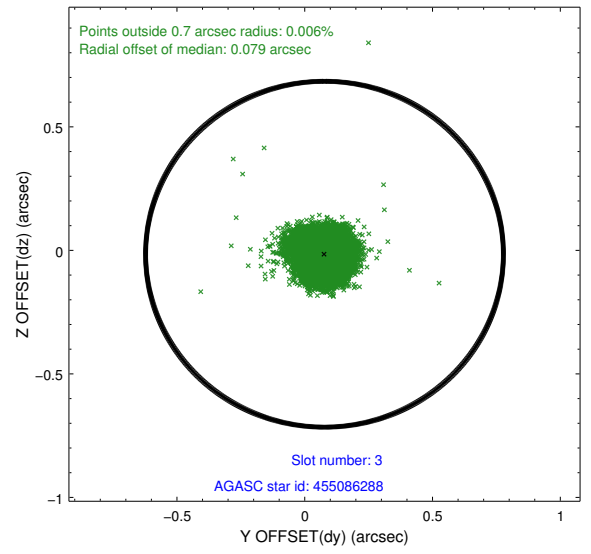
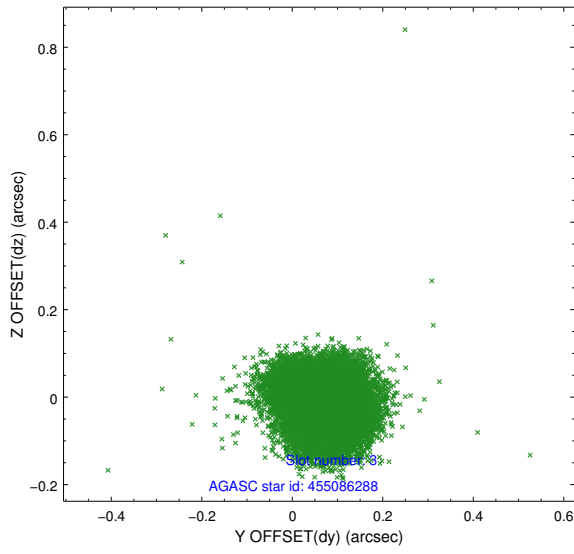


### Slot Statistics

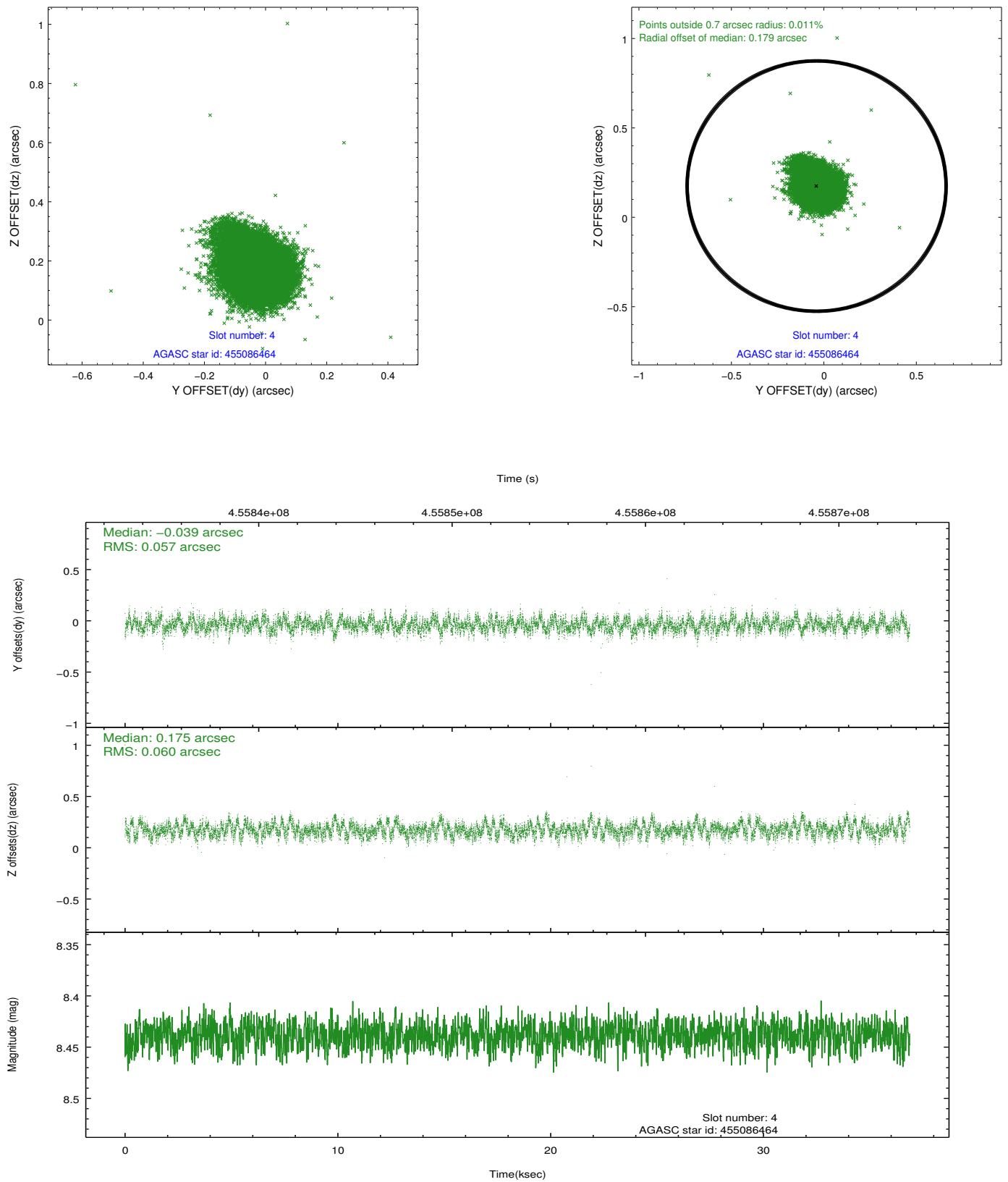
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	8995	0.062	-0.047	0.017	0.029	0.000000	0.000000	931.67	-1730.34
1	FID	ACIS-S-4	7.00	8994	0.150	0.007	0.017	0.032	0.000000	0.000000	2149.21	173.82
2	FID	ACIS-S-5	7.03	8994	-0.237	0.051	0.011	0.034	0.000000	0.000000	-1817.43	167.55
3	GUIDE	455086288	8.23	17980	0.077	-0.016	0.076	0.122	215.702797	46.116120	1268.13	-453.20
4	GUIDE	455086464	8.44	17986	-0.039	0.175	0.088	0.140	216.724017	46.613356	-1820.84	-141.31
5	GUIDE	455086552	9.67	17936	0.077	-0.136	0.154	0.234	215.917824	45.938415	1286.15	384.42
6	GUIDE	455089024	8.06	17986	0.072	-0.042	0.060	0.098	216.032003	46.769703	-895.75	-1685.73
7	GUIDE	455083528	8.69	17972	-0.181	0.016	0.087	0.155	217.473880	46.208869	-2297.51	2174.39

## 2.4 Star Slots

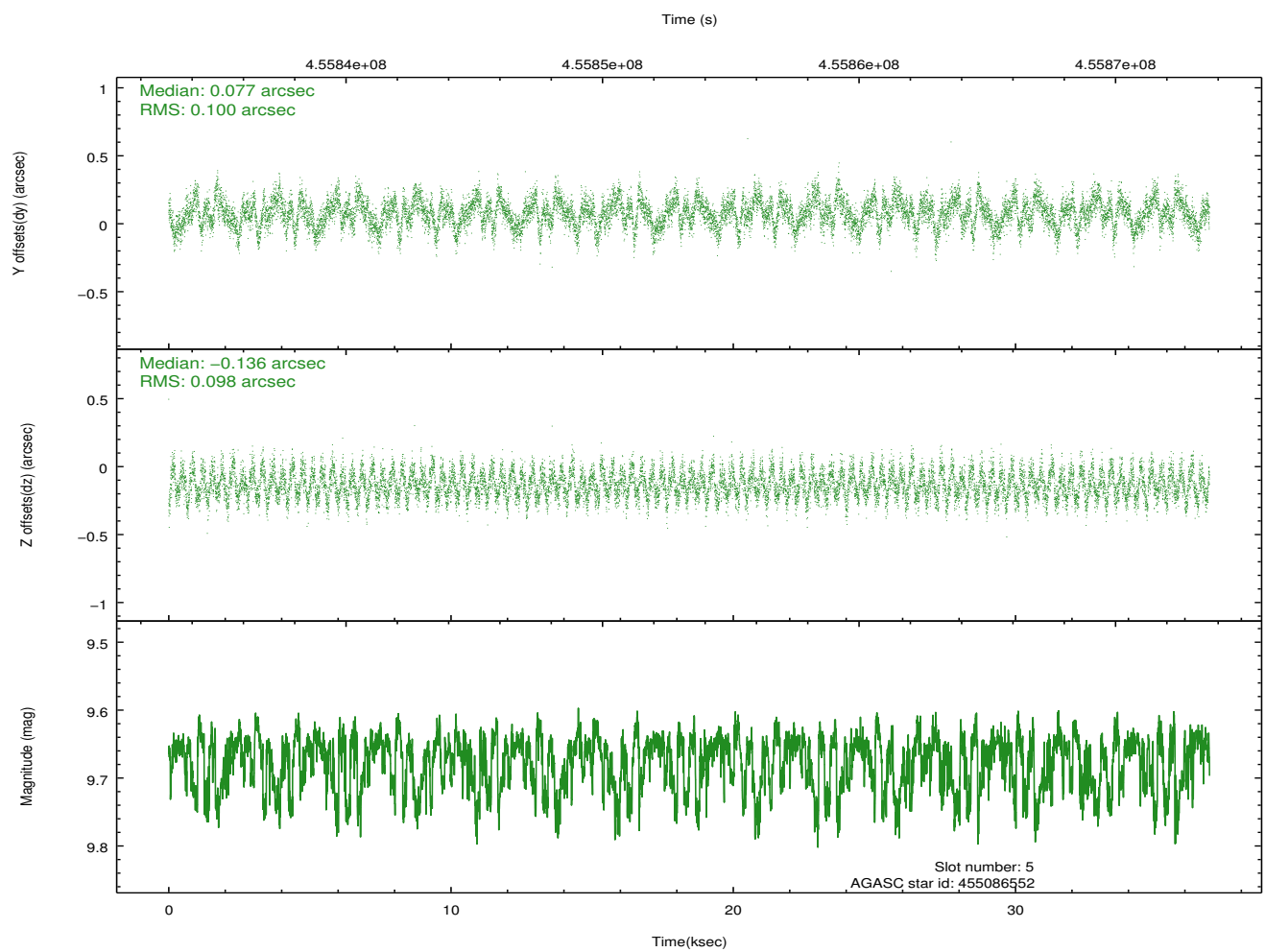
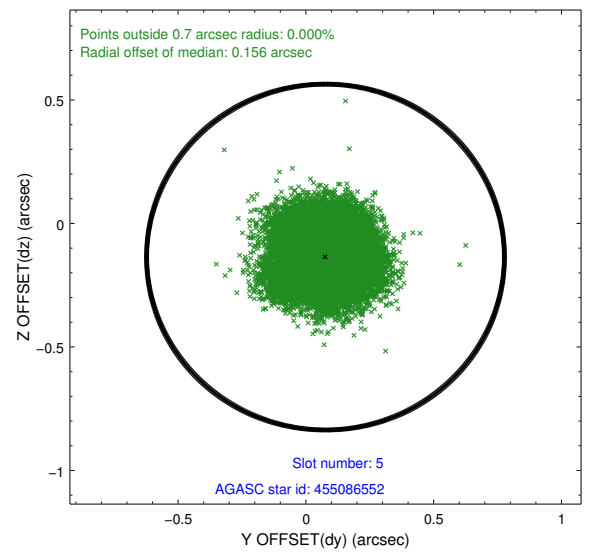
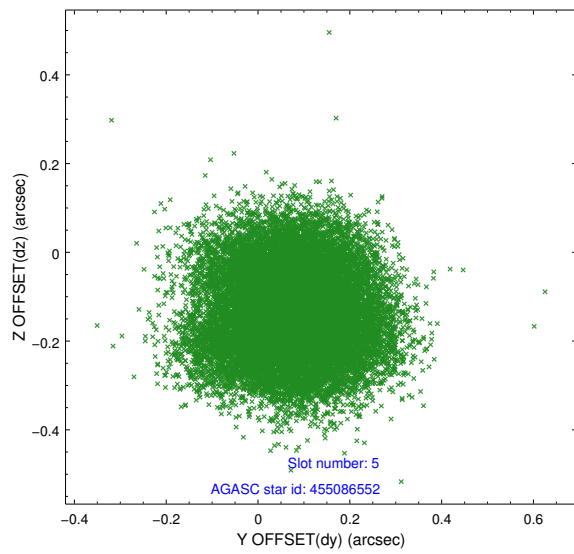
### 2.4.1 Slot 3



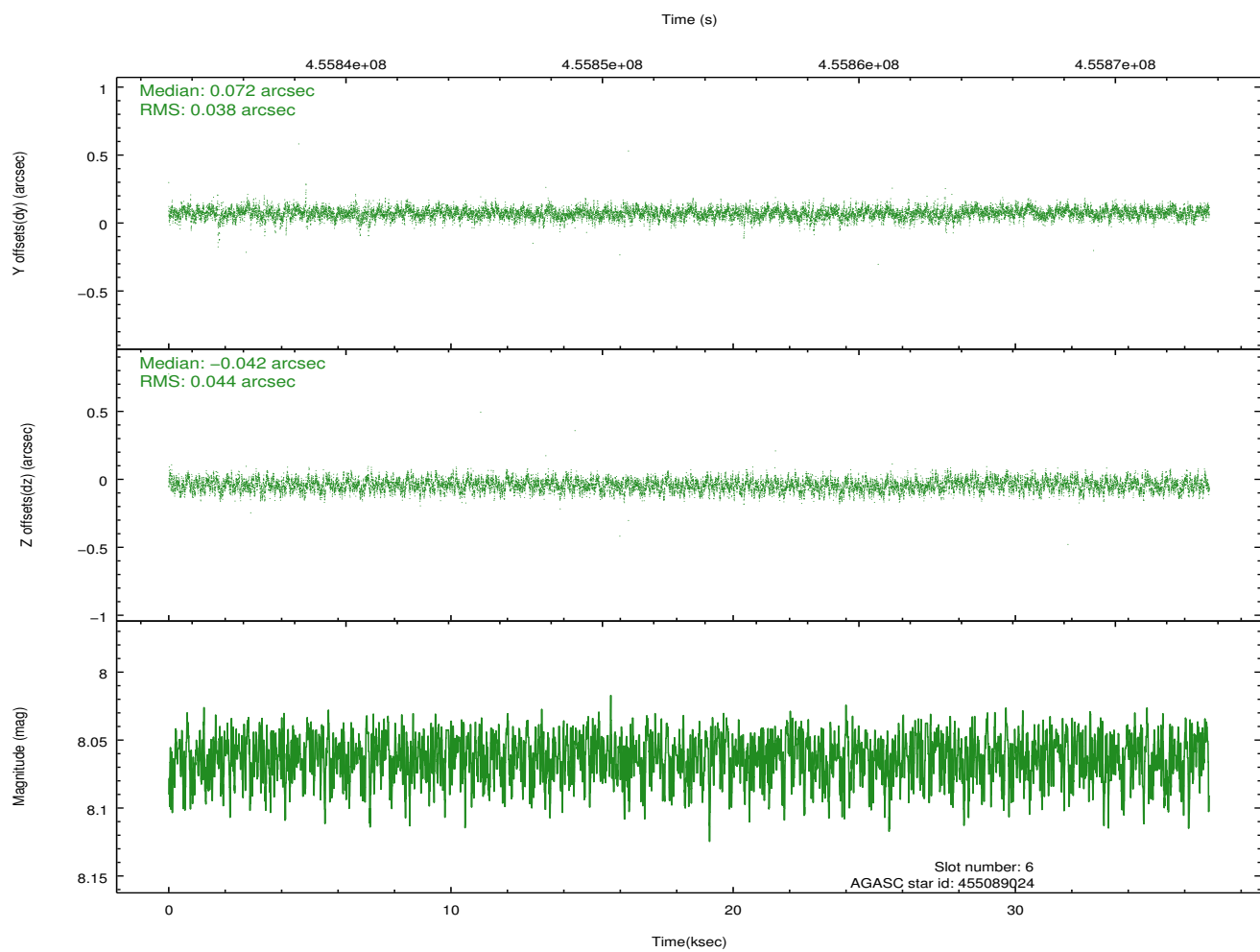
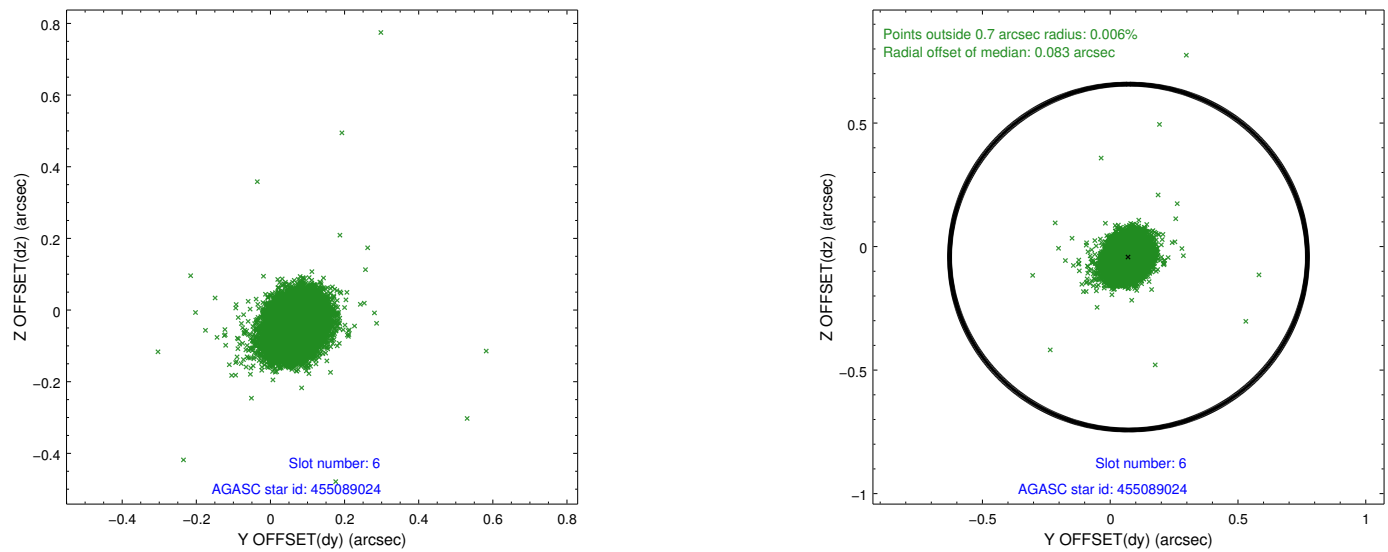
## 2.4.2 Slot 4



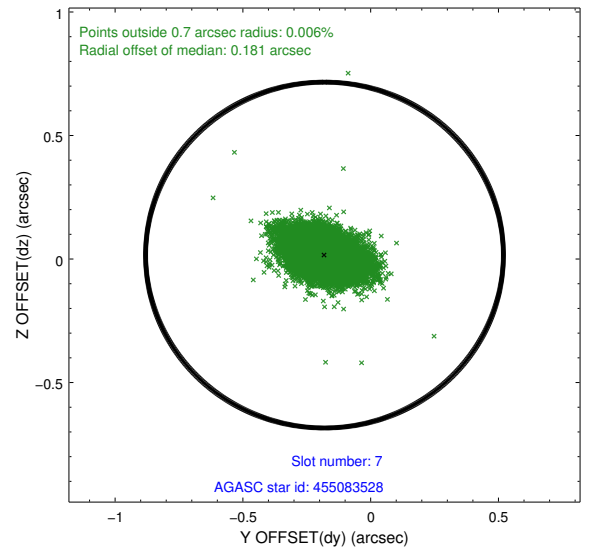
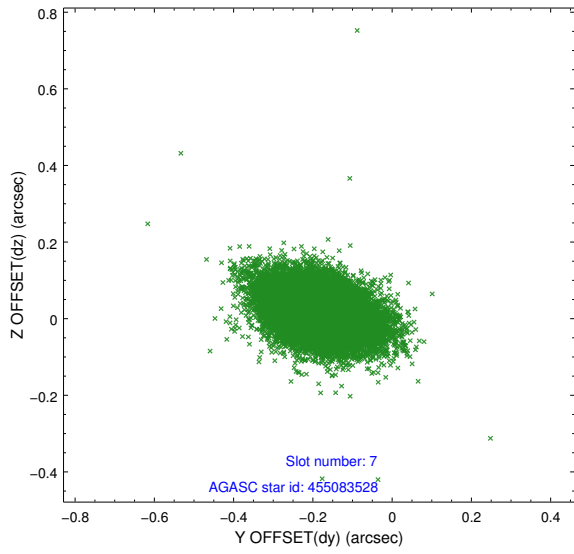
### 2.4.3 Slot 5



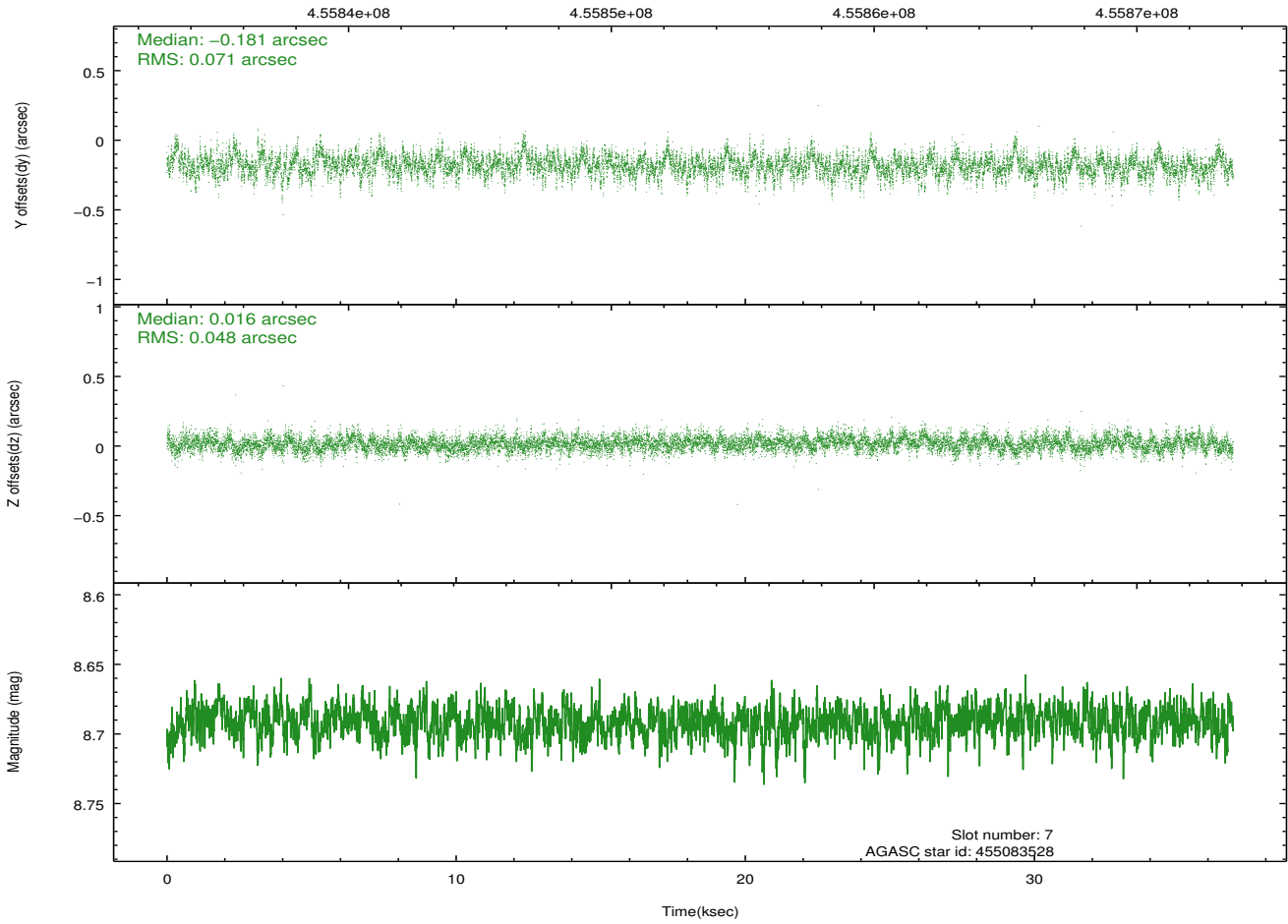
## 2.4.4 Slot 6



### 2.4.5 Slot 7

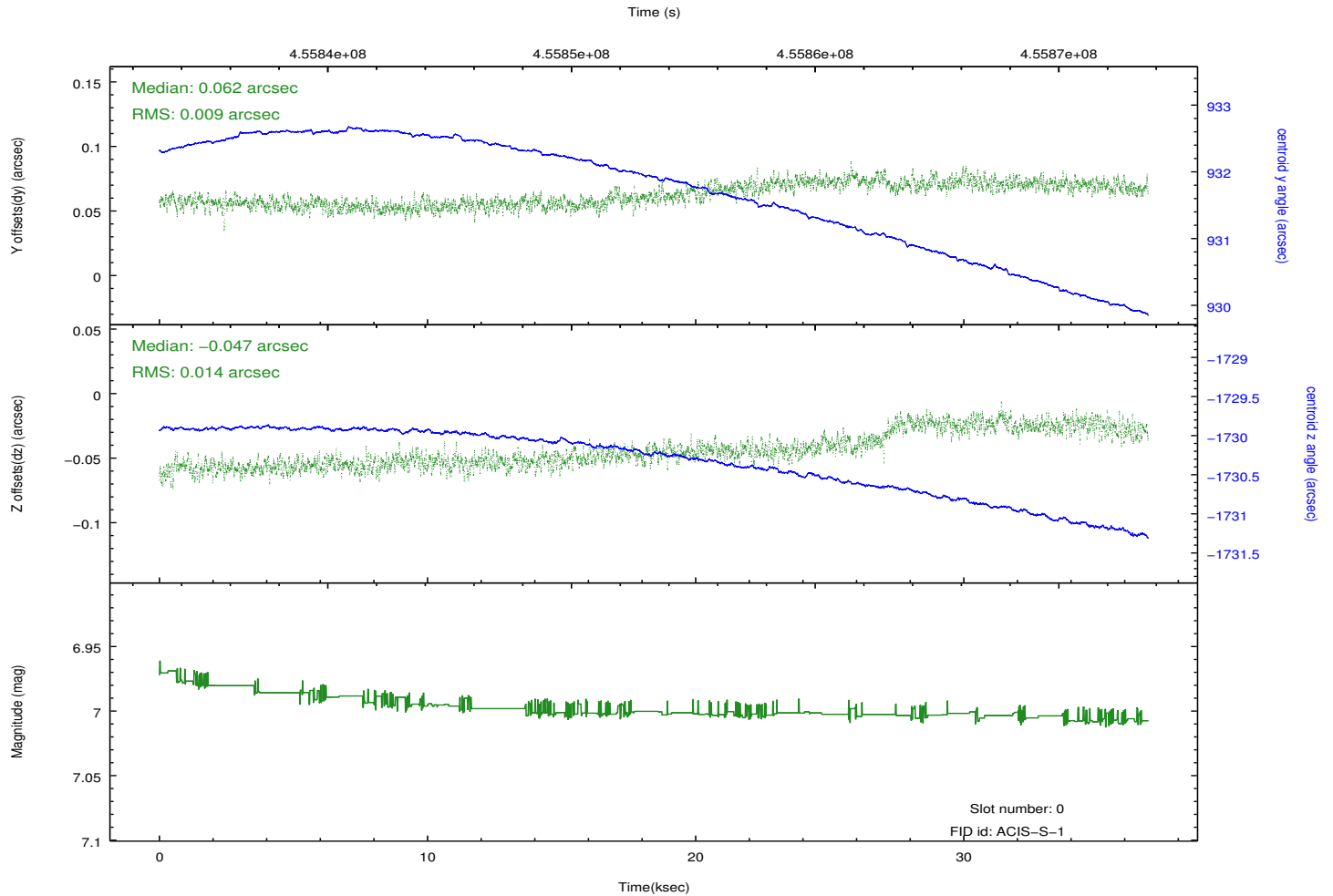
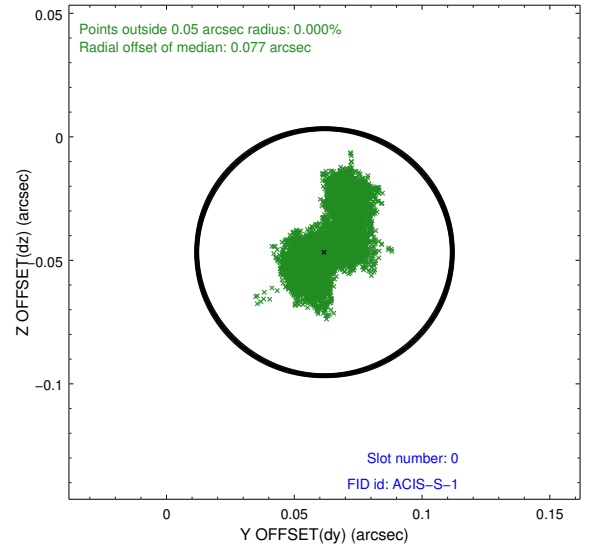
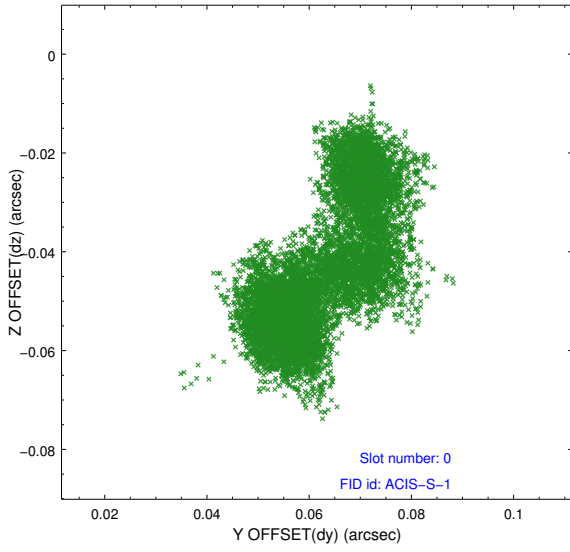


Time (s)

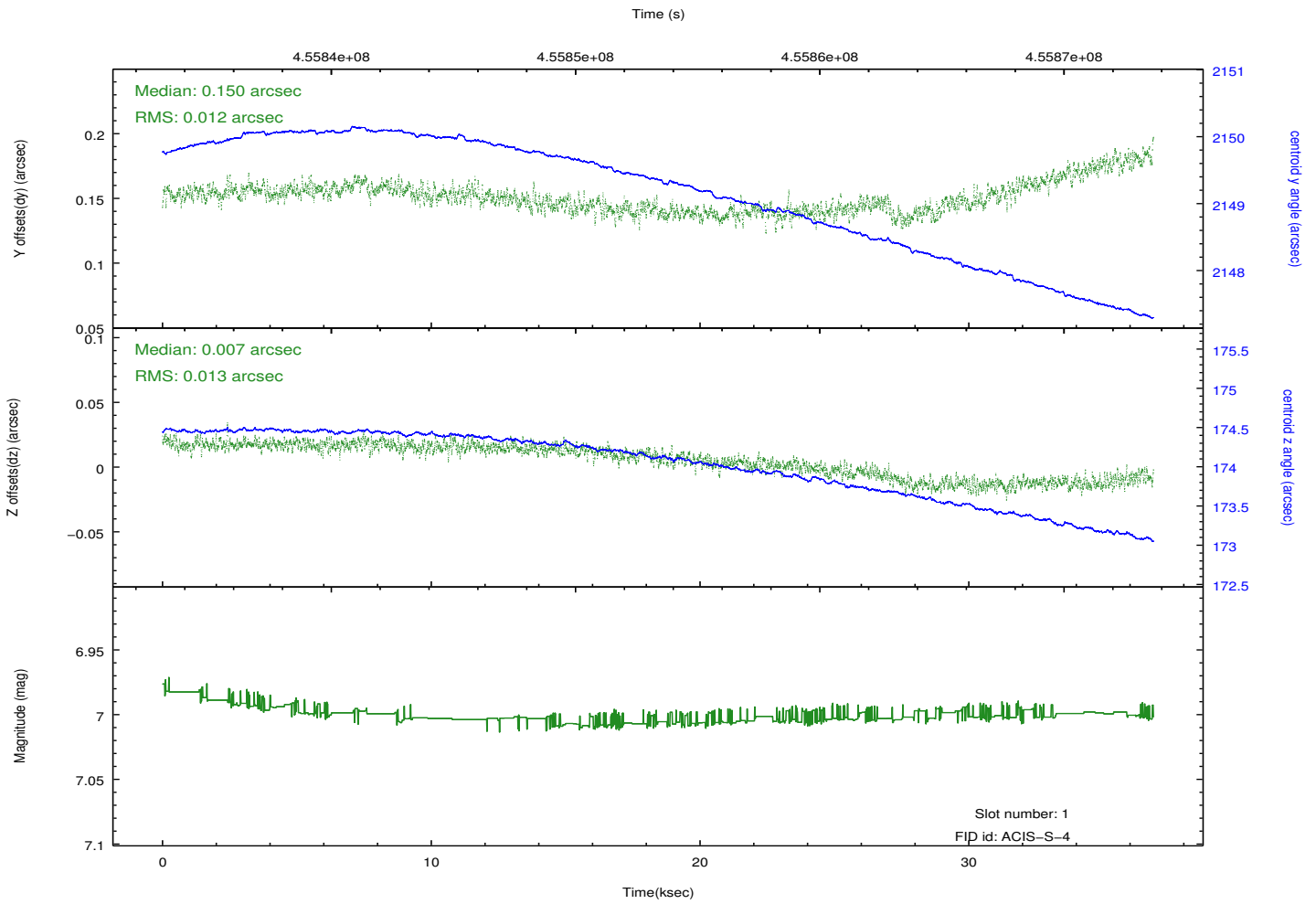
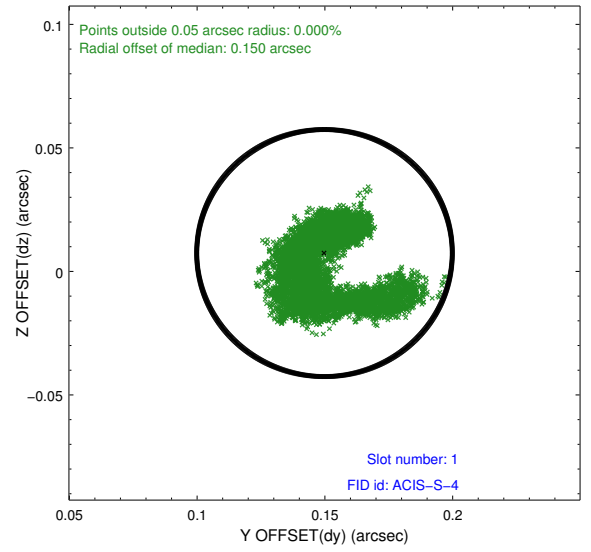
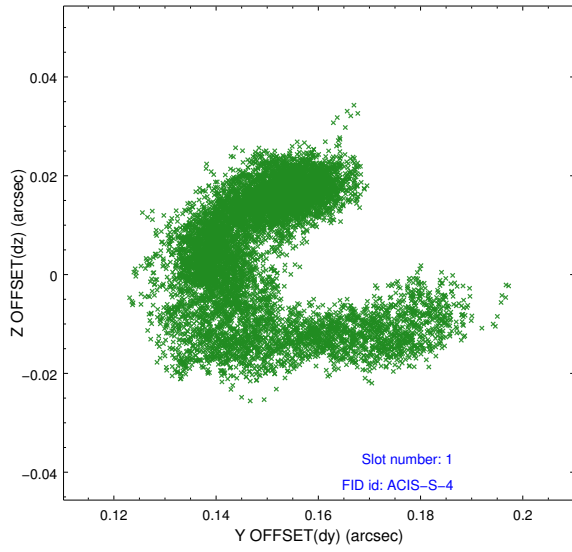


## 2.5 FID Slots

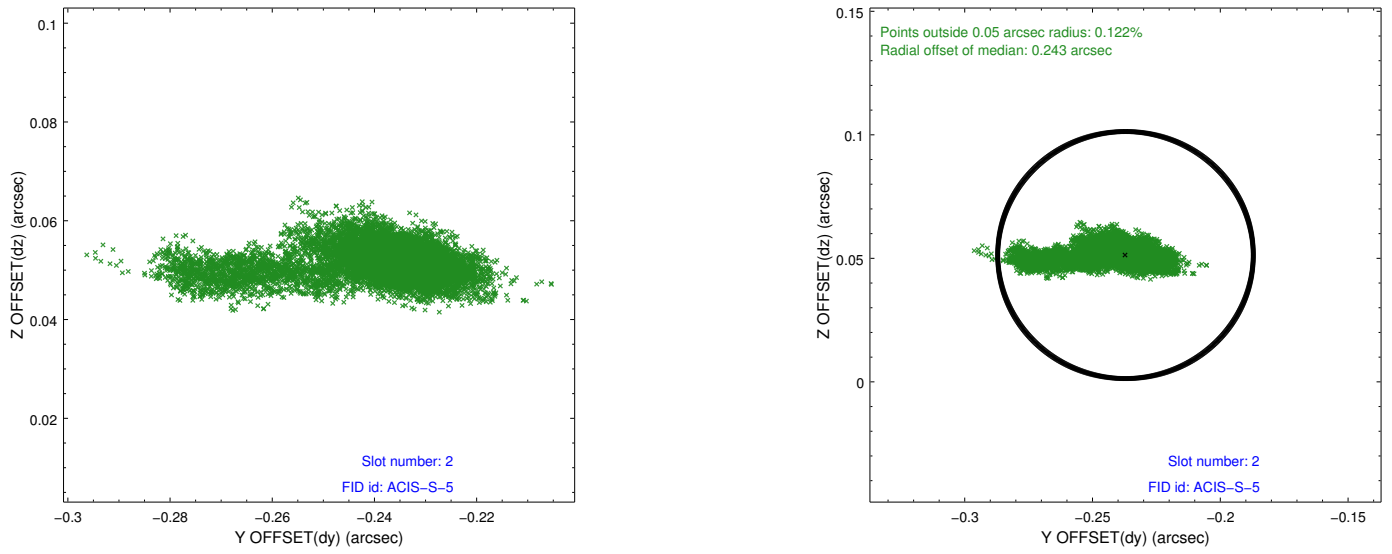
### 2.5.1 Slot 0



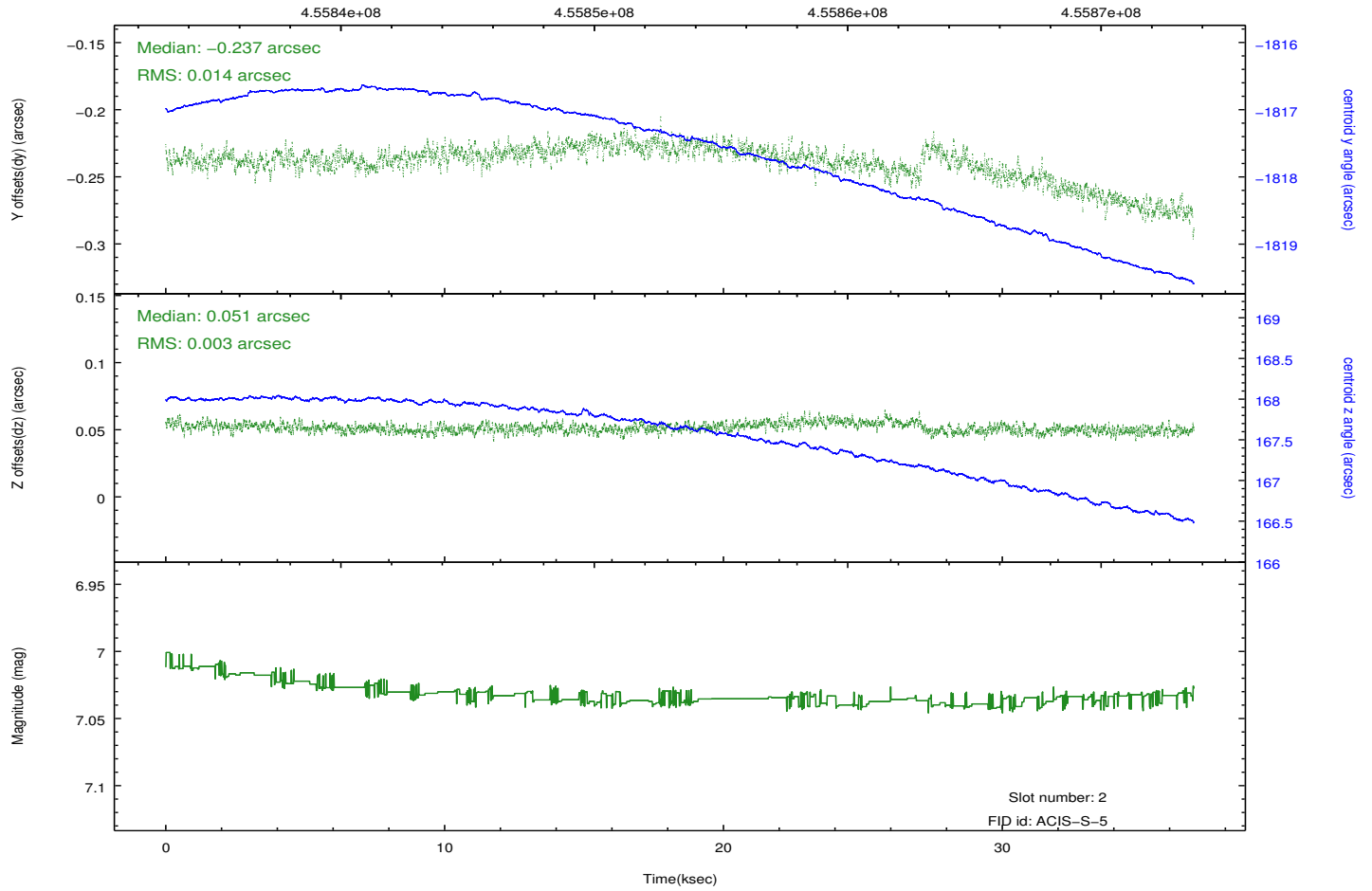
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.064730015159

### A.2 Comments