

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7562 - L2 Version 2  
Chandra X-Ray Center

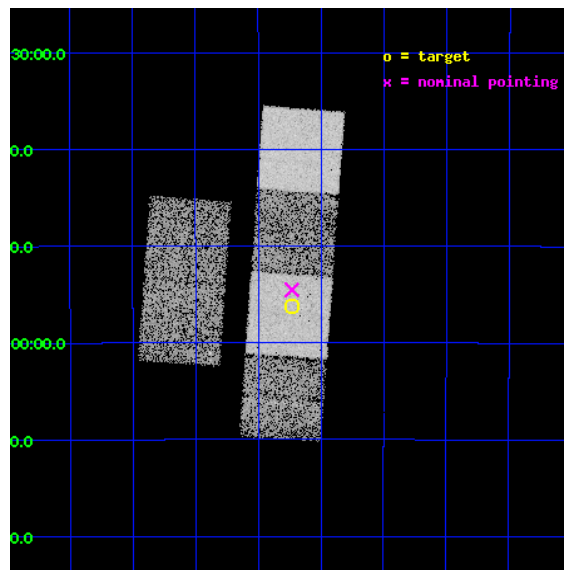
L2 Processing Date : May 9 2012

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# 1 Front

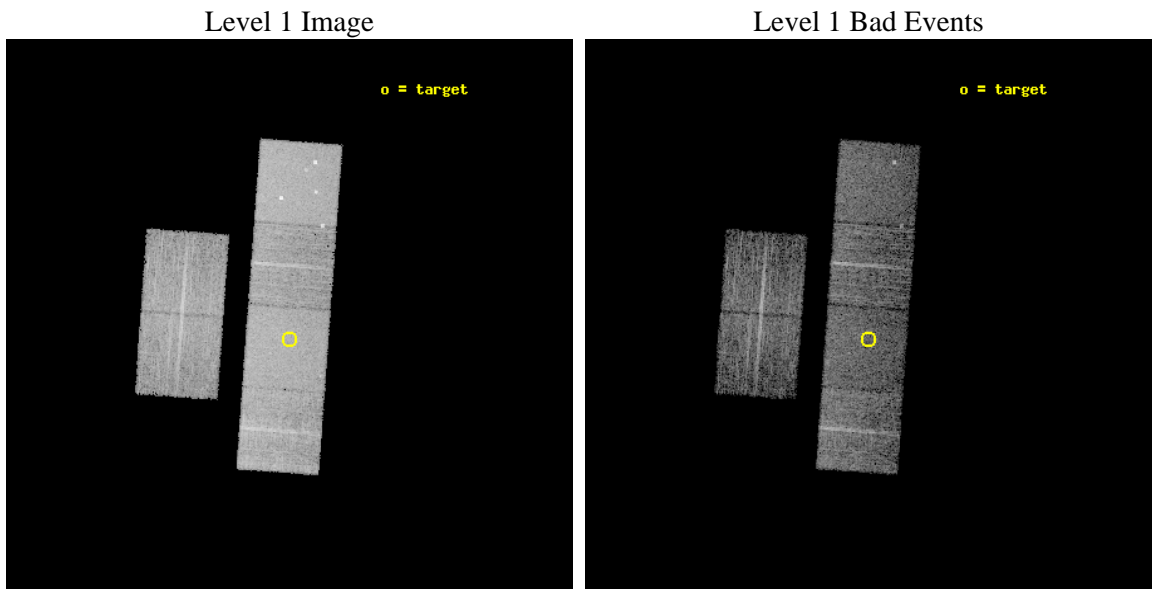
seq_num	400672	Sequence number
obs_id	7562	Observation id
title	Localization and Spectra of INTEGRAL-Selected Sources in the Galactic Plane	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	IGR J17507-2856	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.683333	Observer's specified target RA [deg]
dec_targ	-28.938111	Observer's specified target Dec [deg]
ra_nom	267.68291388078	Nominal RA [deg]
dec_nom	-28.908875761894	Nominal Dec [deg]
roll_nom	94.1500845605	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4753.7288385034	Sum of GTIs [s]
livetime	4693.5342615984	Livetime [s]
ontime2	4753.7698785067	Sum of GTIs [s]
ontime3	4753.6057184935	Sum of GTIs [s]
ontime5	4753.6877985001	Sum of GTIs [s]
ontime6	4753.6467584968	Sum of GTIs [s]
ontime7	4753.7288385034	Sum of GTIs [s]
ontime8	4750.3236085176	Sum of GTIs [s]
l2events	81382	Number of level 2 events



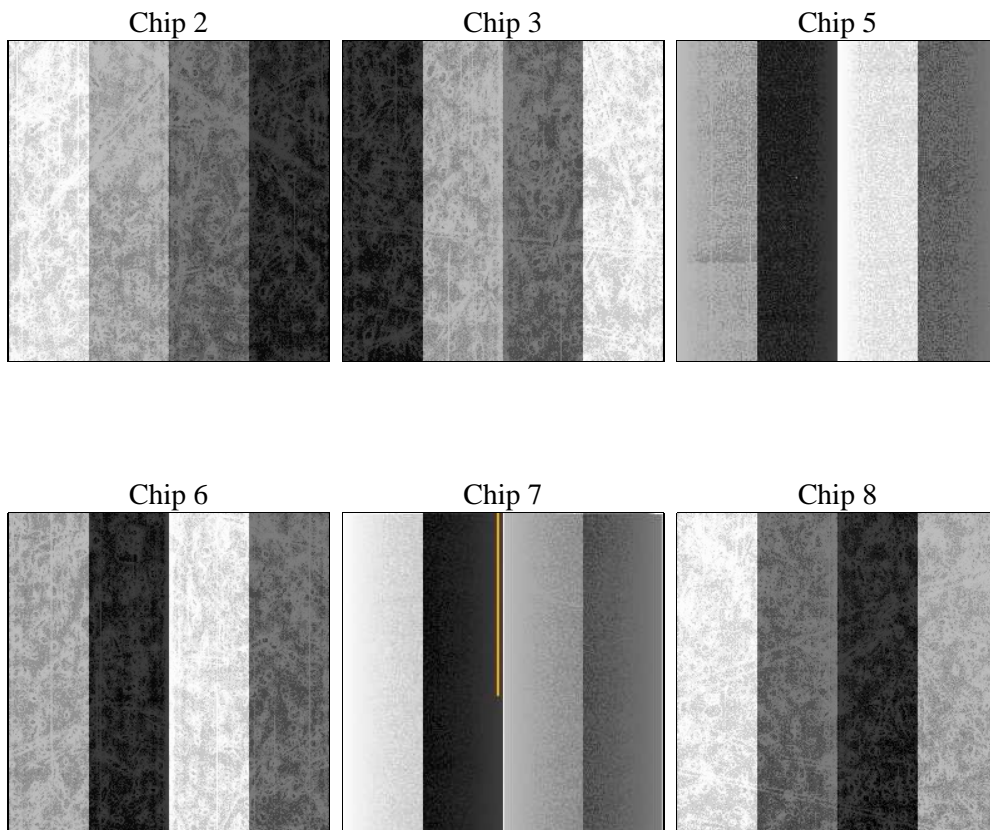
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4753.7288385034	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	4753.7698785067	Sum of GTIs [s]
date	2012-05-09T16:25:56	Date and time of file creation	ontime3	4753.6057184935	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4753.6877985001	Sum of GTIs [s]
			ontime6	4753.6467584968	Sum of GTIs [s]
			ontime7	4753.7288385034	Sum of GTIs [s]
			ontime8	4750.3236085176	Sum of GTIs [s]
			l1events	338906	Number of level 1 events

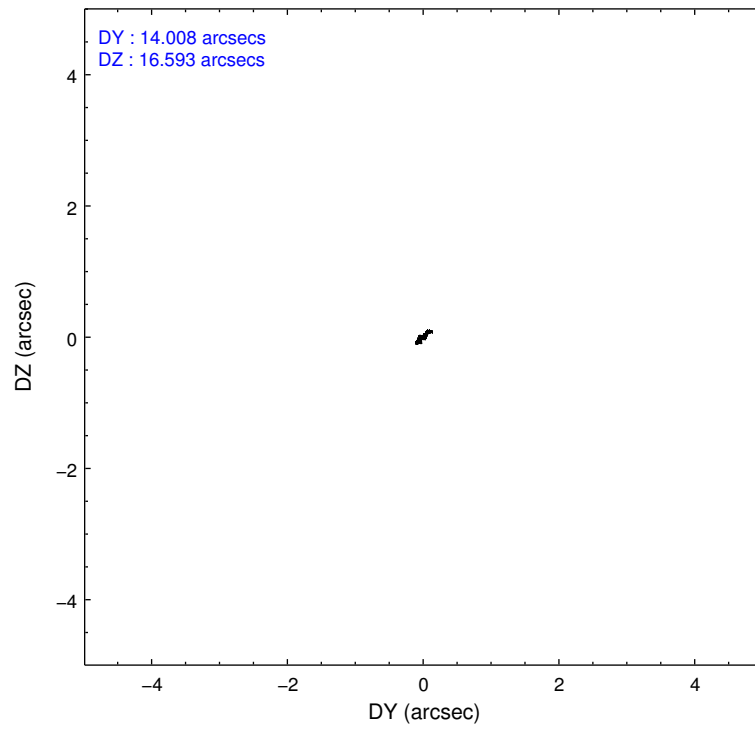
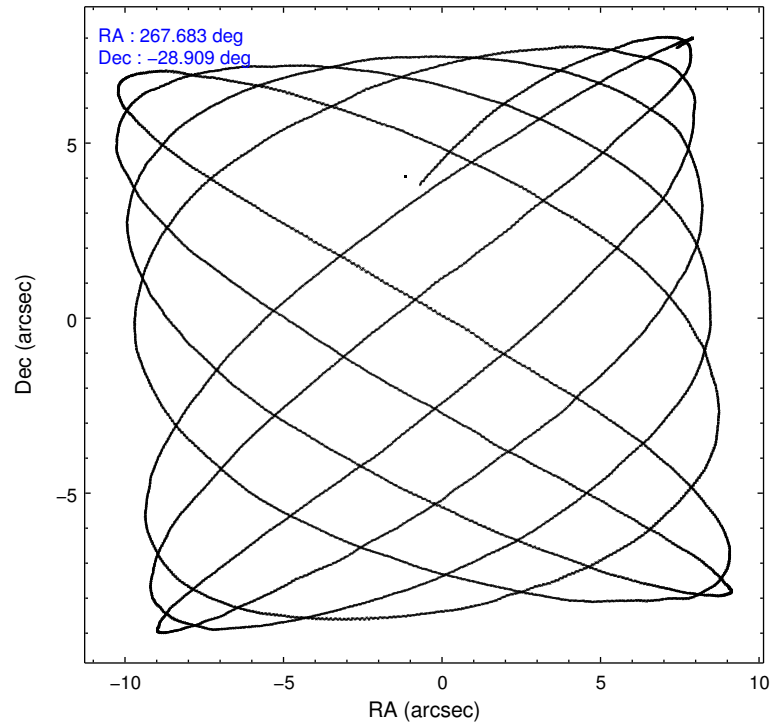
### 2.1.4 Events

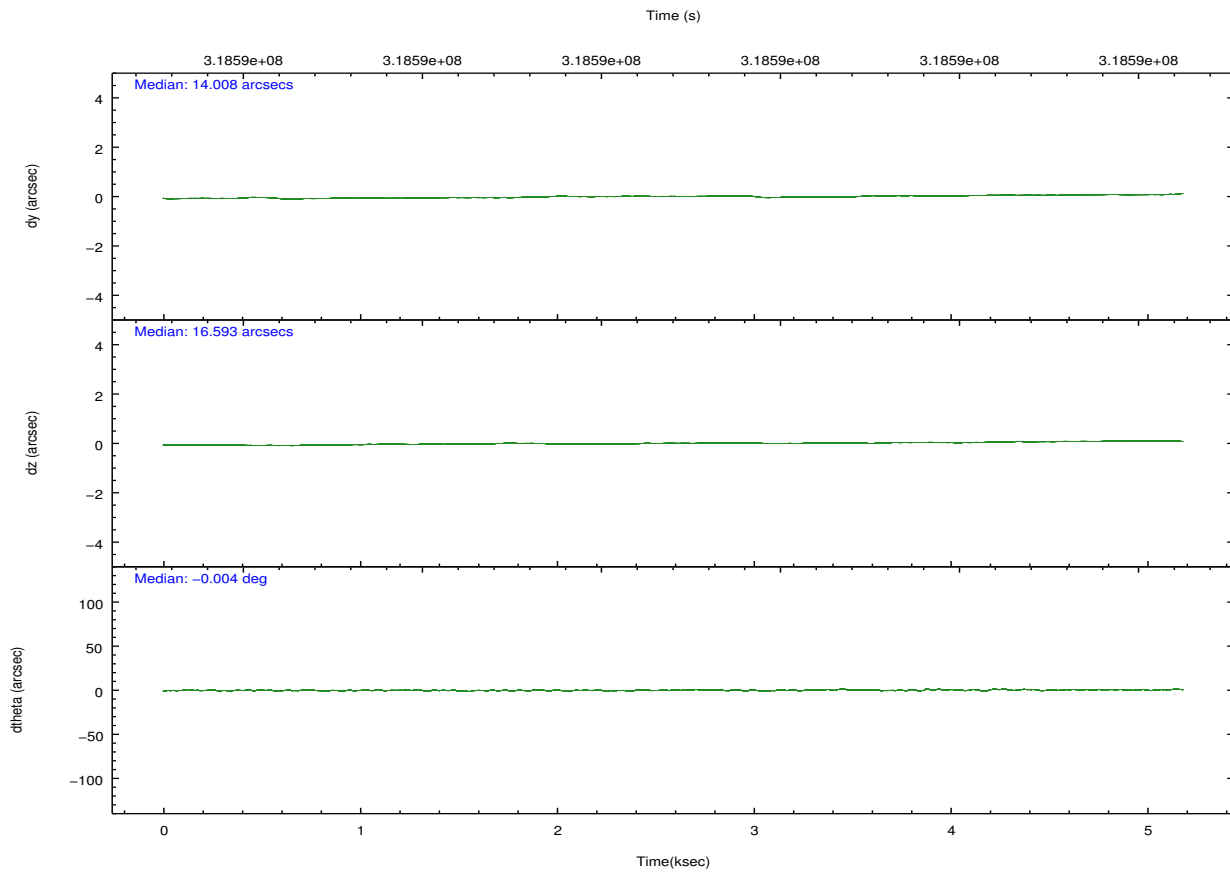
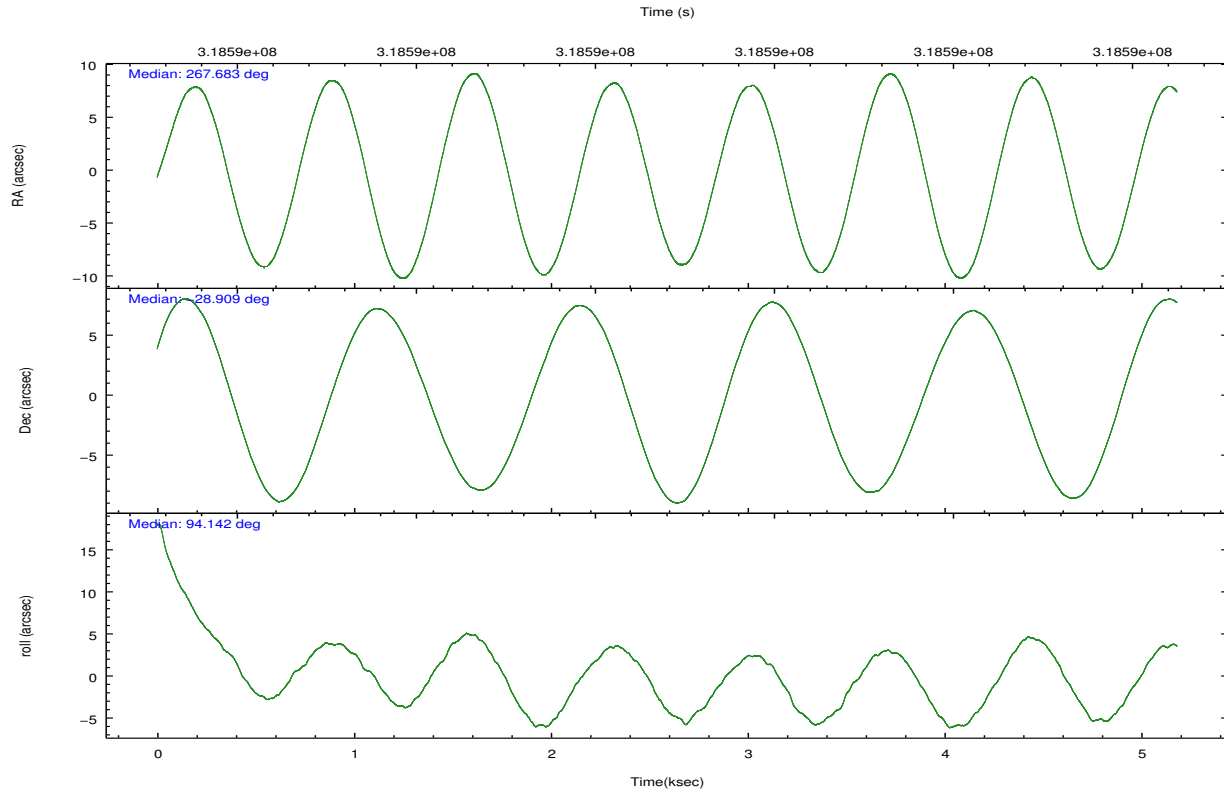
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	47443	44370	73464	47466	64162	62001	grade 0 events	3293	3072	4313	2863	2592	4776
rejected events	40857	38021	38574	41085	36649	48308		6%	6%	5%	6%	4%	7%
rejected %	86%	85%	52%	86%	57%	77%	grade 1 events	37	30	153	34	72	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	1317	1171	10603	1368	5583	3071
								2%	2%	14%	2%	8%	4%
							grade 3 events	516	570	1278	529	2304	1297
								1%	1%	1%	1%	3%	2%
							grade 4 events	508	566	1205	512	2359	1268
								1%	1%	1%	1%	3%	2%
							grade 5 events	1877	2093	5038	2098	5870	2901
								3%	4%	6%	4%	9%	4%
							grade 6 events	961	975	17512	1113	14691	3309
								2%	2%	23%	2%	22%	5%
							grade 7 events	38934	35893	33362	38949	30691	45327
								82%	80%	45%	82%	47%	73%

## 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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	267.700742	267.6829138807845	CCD I2 on	O2	Y
[deg] Pointing Dec	-28.931366	-28.9088757618942	CCD I3 on	Y	Y
[deg] Pointing Roll	94.002092	94.15008456050037	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	318587985.184000	318587454.52593	CCD S5 on	N	N
Observation start date	2008-02-05T08:38:40	2008-02-05T08:30:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	318592985.184000	318593695.23874	On-chip summing requested	N	N
Observation end date	2008-02-05T10:02:00	2008-02-05T10:14:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



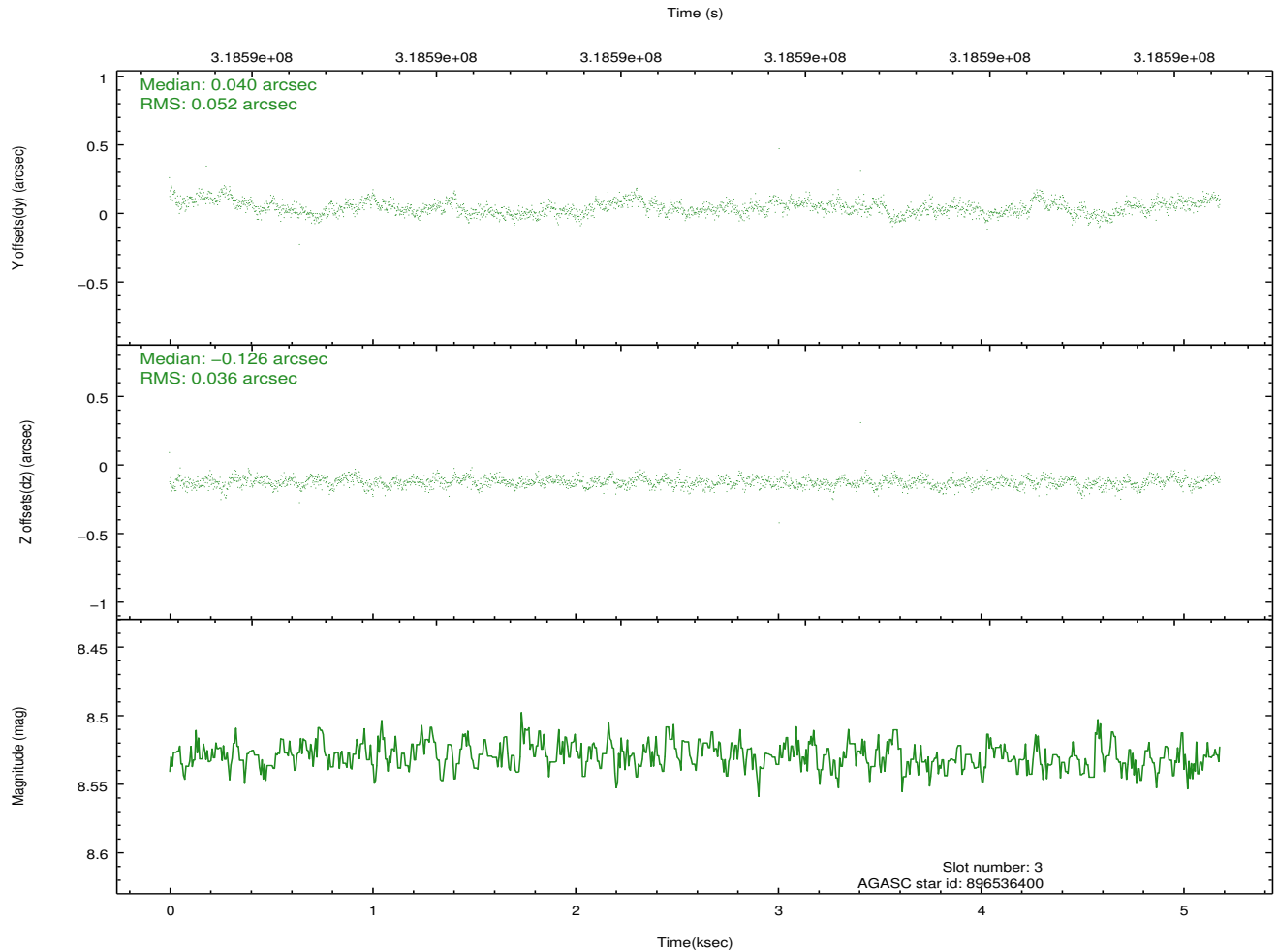
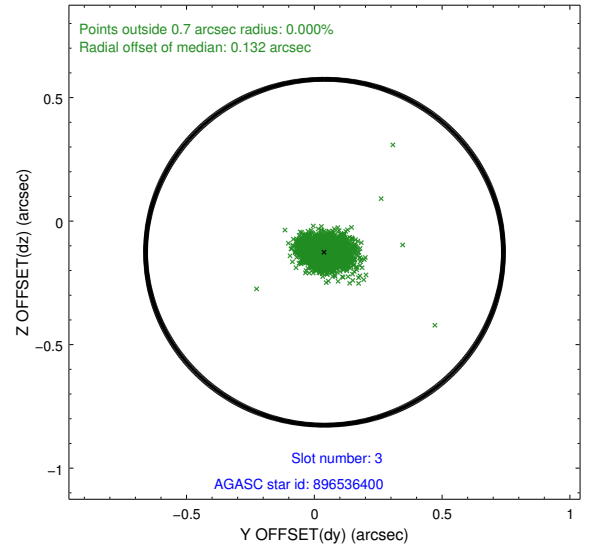
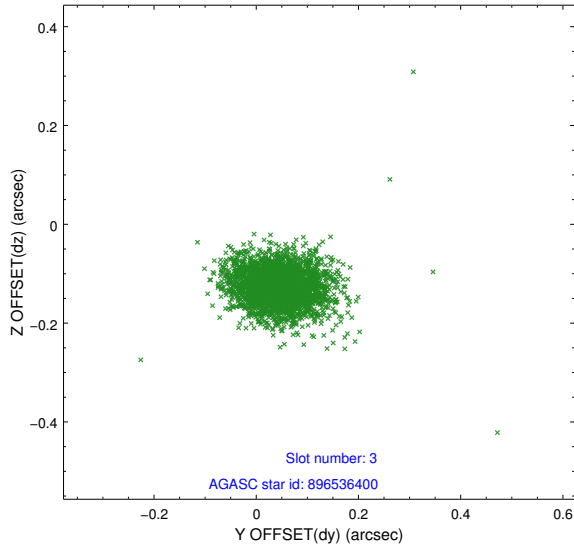


### Slot Statistics

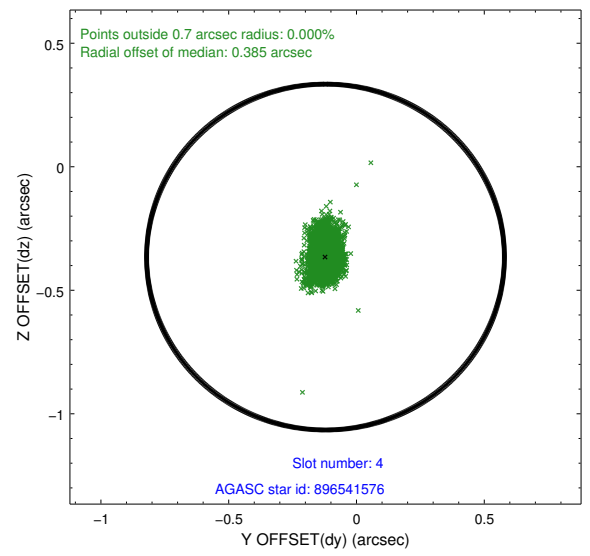
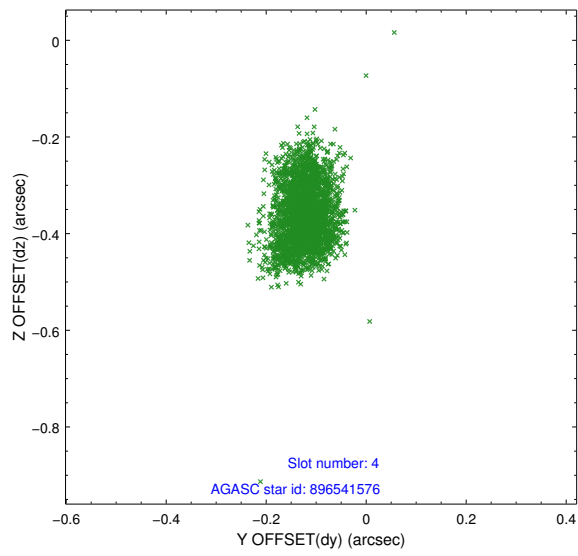
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.18	1264	0.139	0.000	0.006	0.010	0.000000	0.000000	2146.54	170.67
1	FID	ACIS-S-5	7.23	1265	-0.173	-0.002	0.006	0.010	0.000000	0.000000	-1818.46	164.31
2	FID	ACIS-S-6	7.32	1264	0.005	0.015	0.007	0.012	0.000000	0.000000	393.41	808.04
3	GUIDE	896536400	8.53	2528	0.040	-0.126	0.064	0.106	267.359146	-29.438655	-1748.84	1195.89
4	GUIDE	896541576	8.17	2529	-0.121	-0.366	0.076	0.125	267.051055	-28.762912	741.27	2003.89
5	GUIDE	898247688	8.65	2529	0.203	0.220	0.081	0.135	268.426687	-29.012154	-455.94	-2257.84
6	GUIDE	896538840	8.90	2527	0.063	-0.095	0.075	0.138	266.920426	-28.466925	1830.97	2346.88
7	GUIDE	898238128	7.72	2528	-0.185	0.361	0.060	0.098	268.450740	-28.688500	700.22	-2421.59

## 2.4 Star Slots

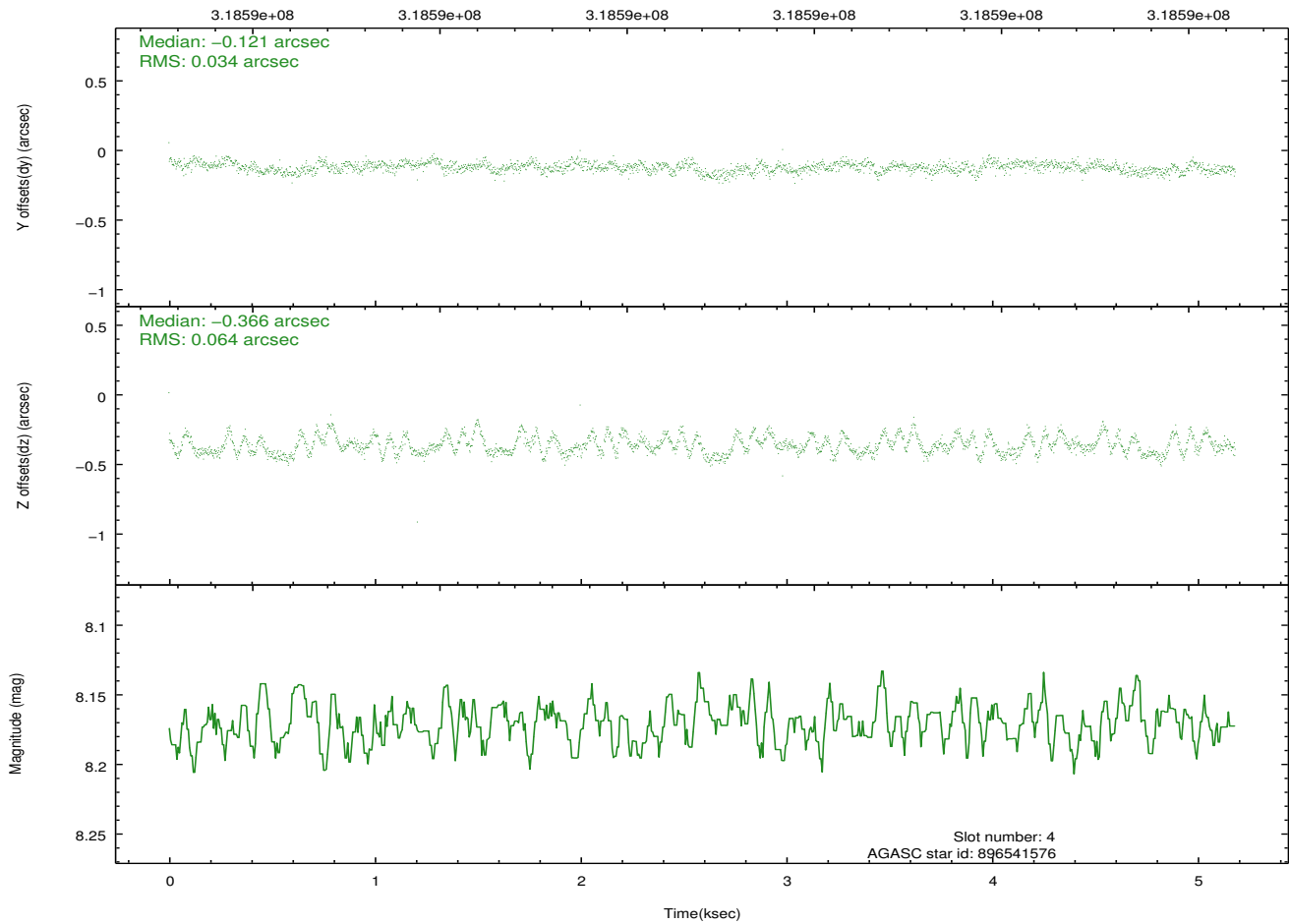
### 2.4.1 Slot 3



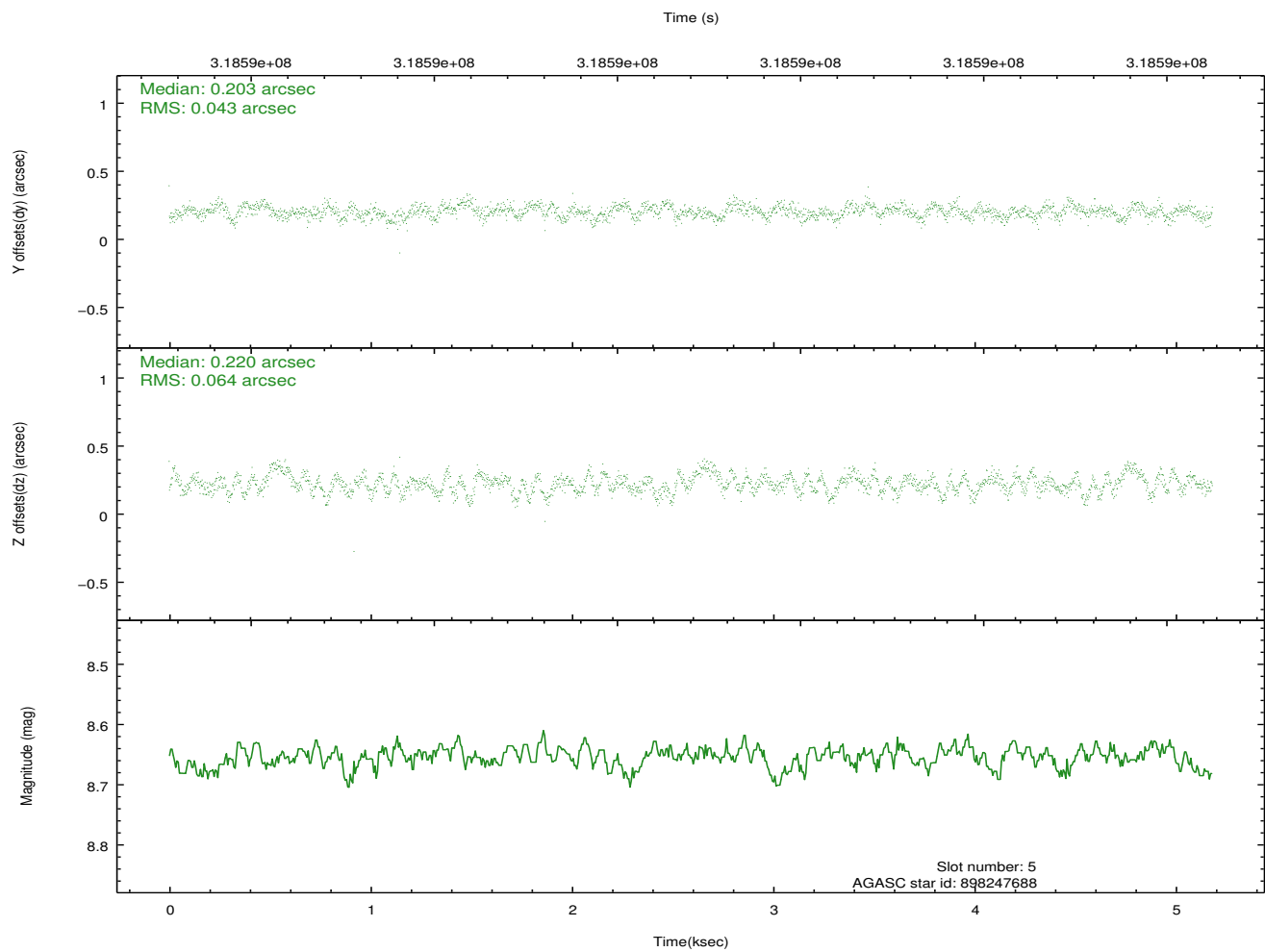
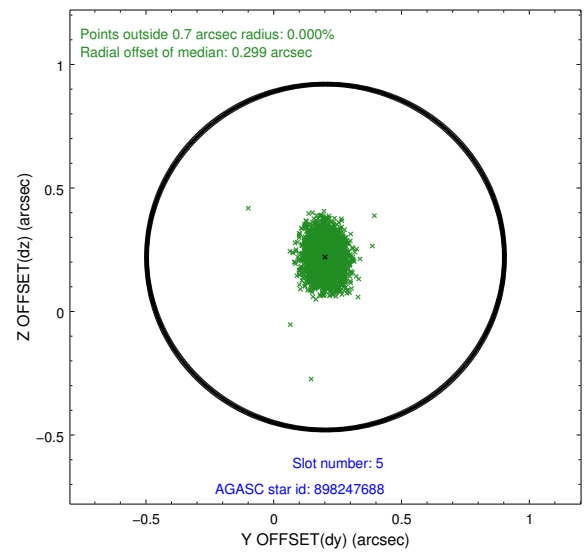
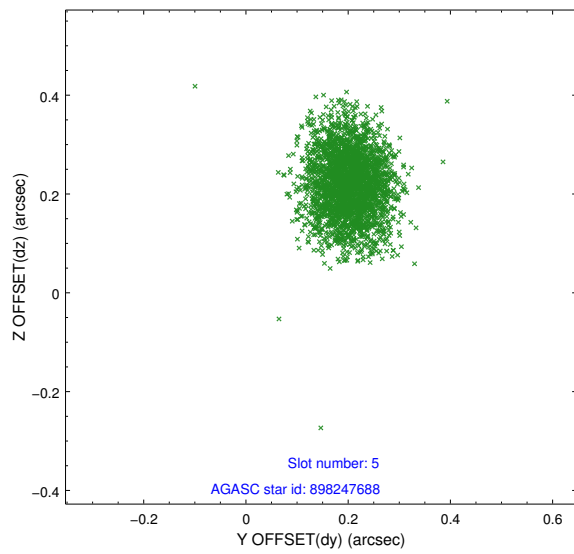
## 2.4.2 Slot 4



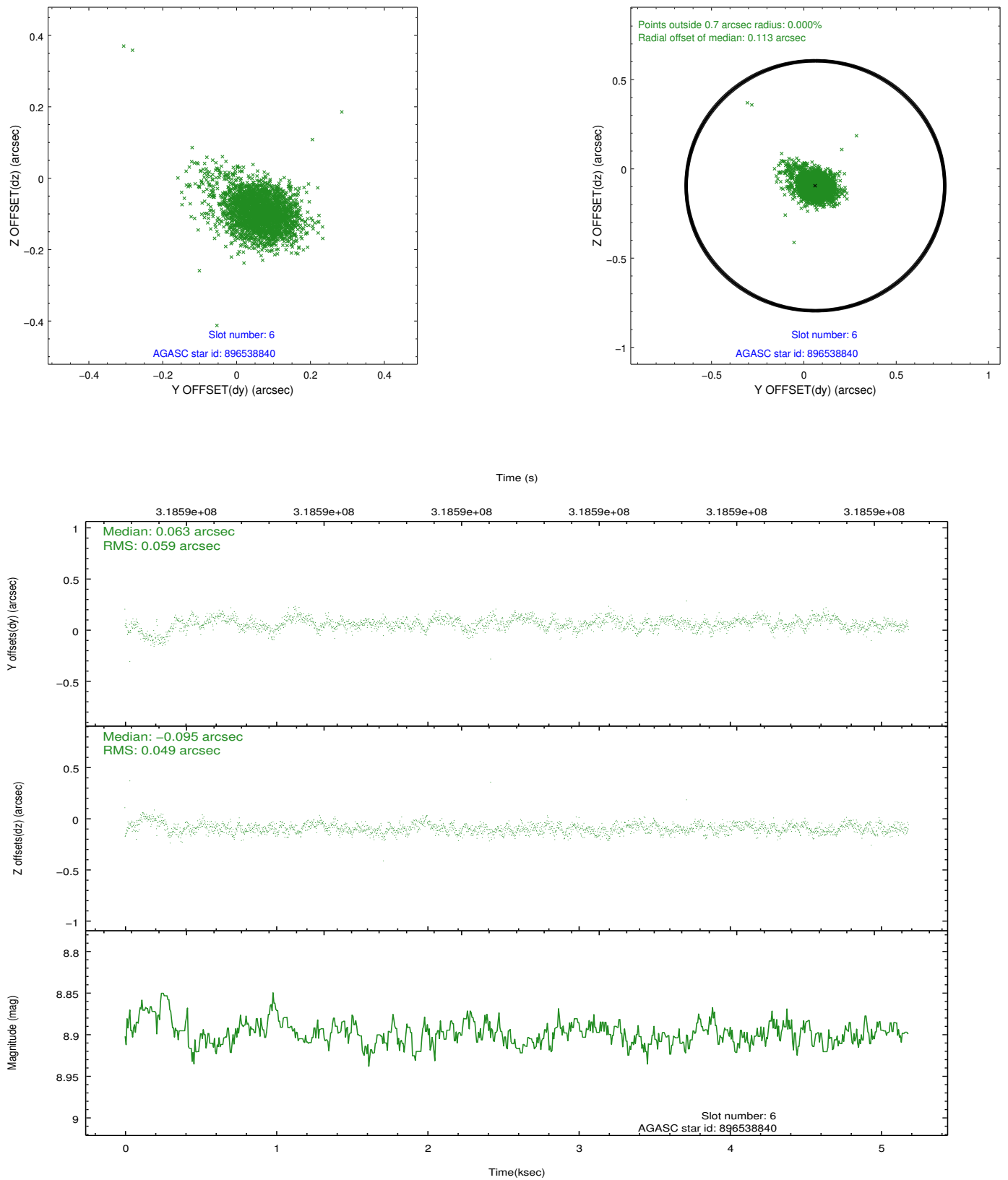
Time (s)



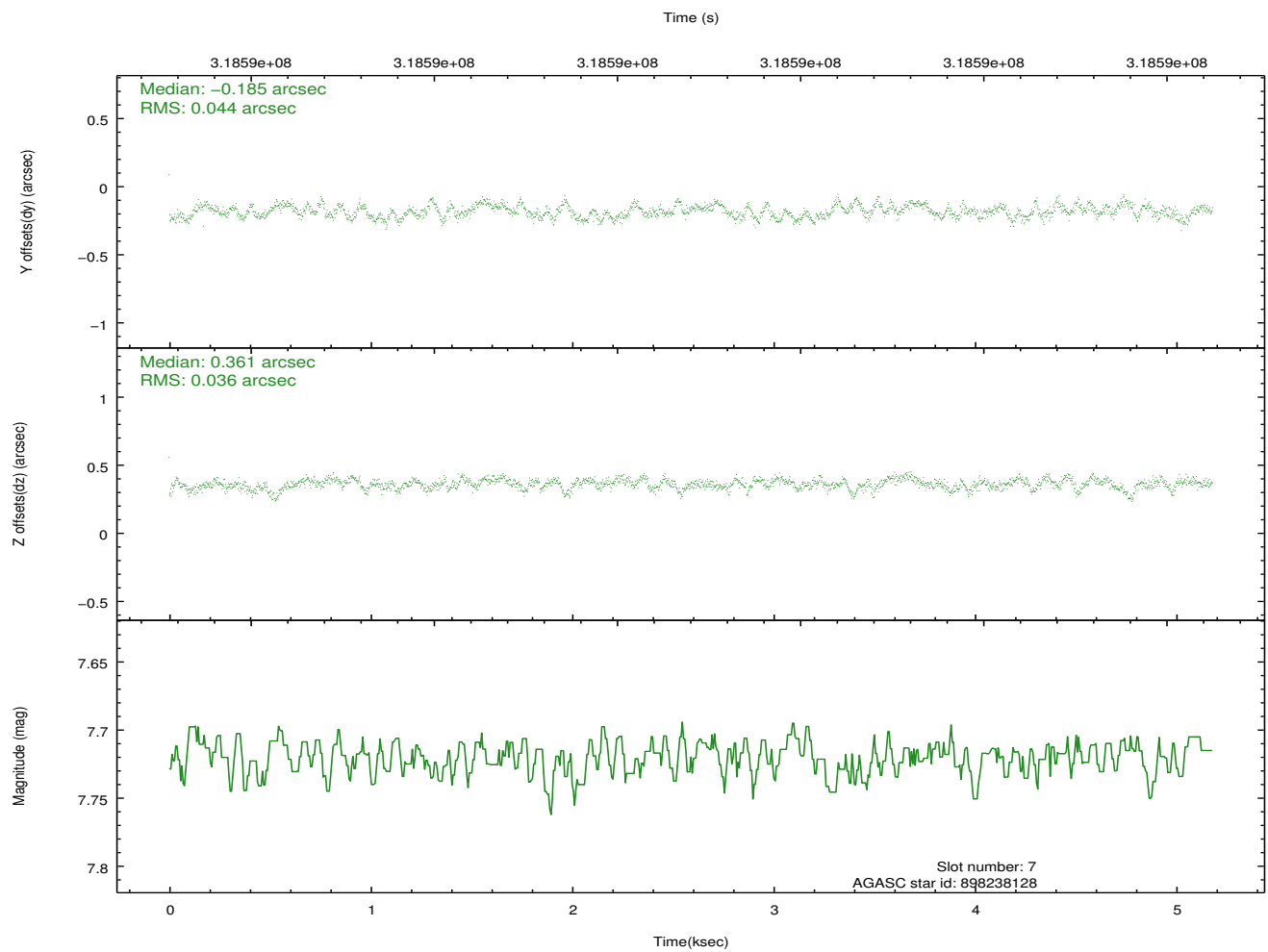
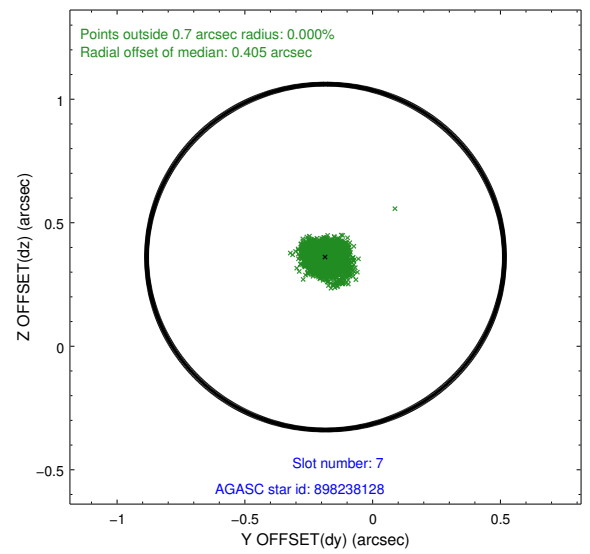
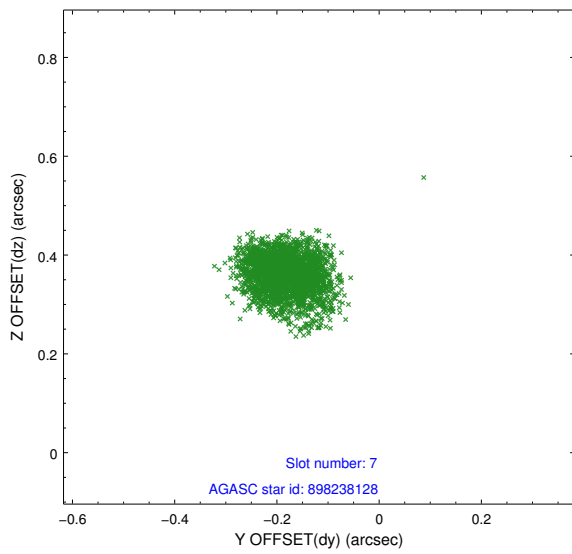
### 2.4.3 Slot 5



## 2.4.4 Slot 6

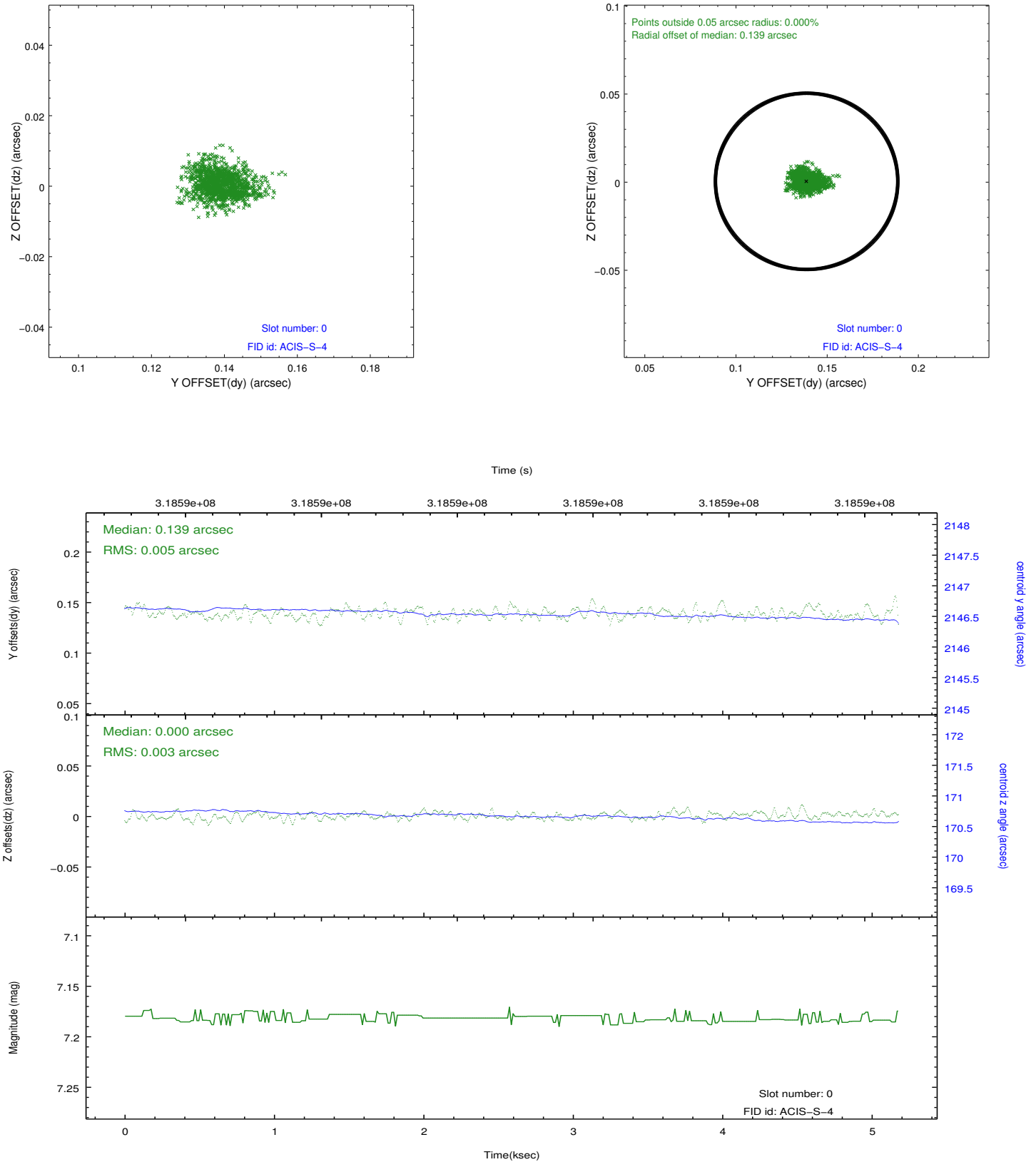


## 2.4.5 Slot 7

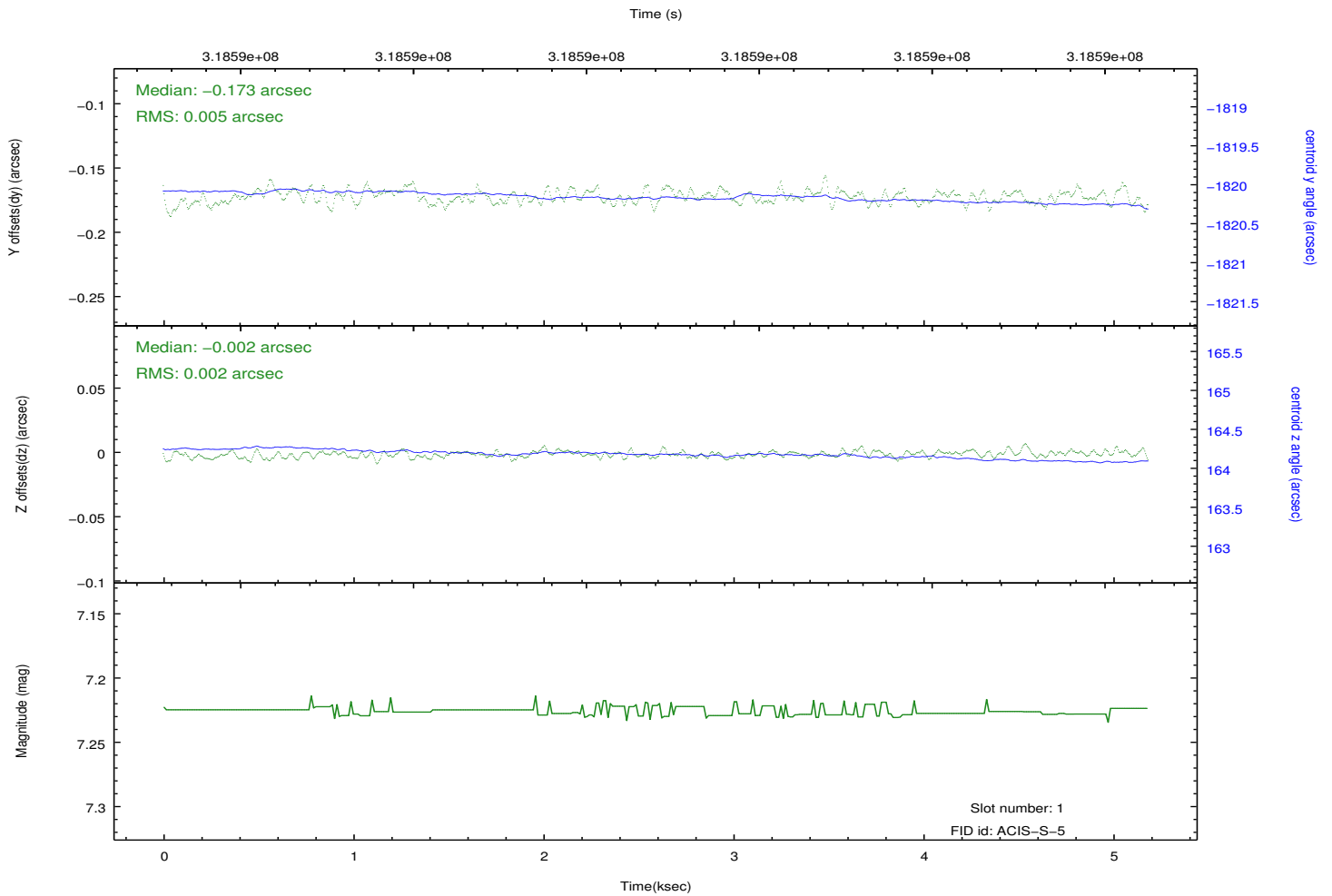
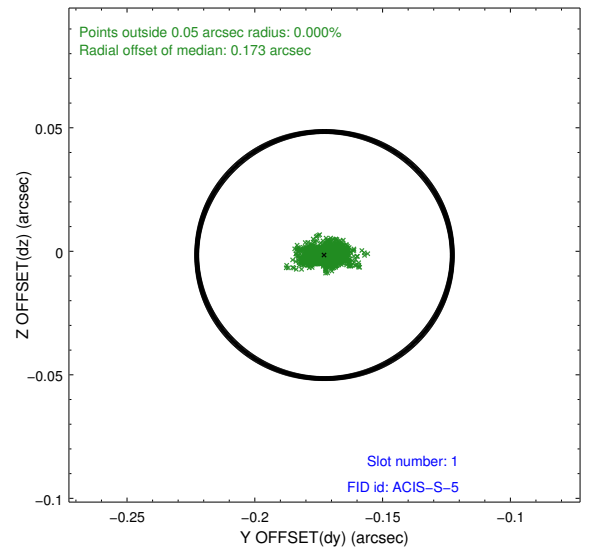
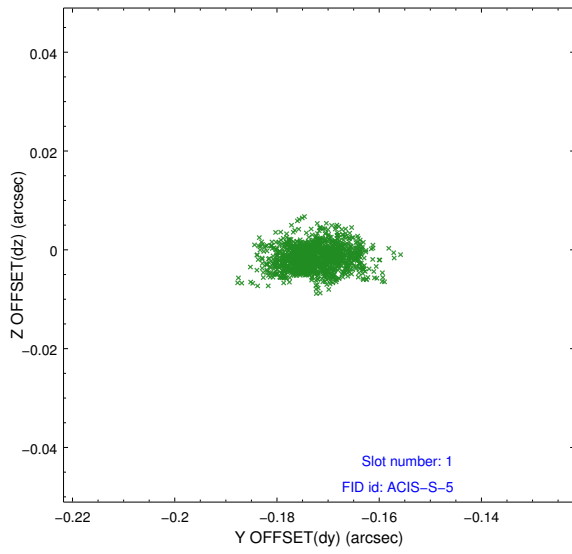


## 2.5 FID Slots

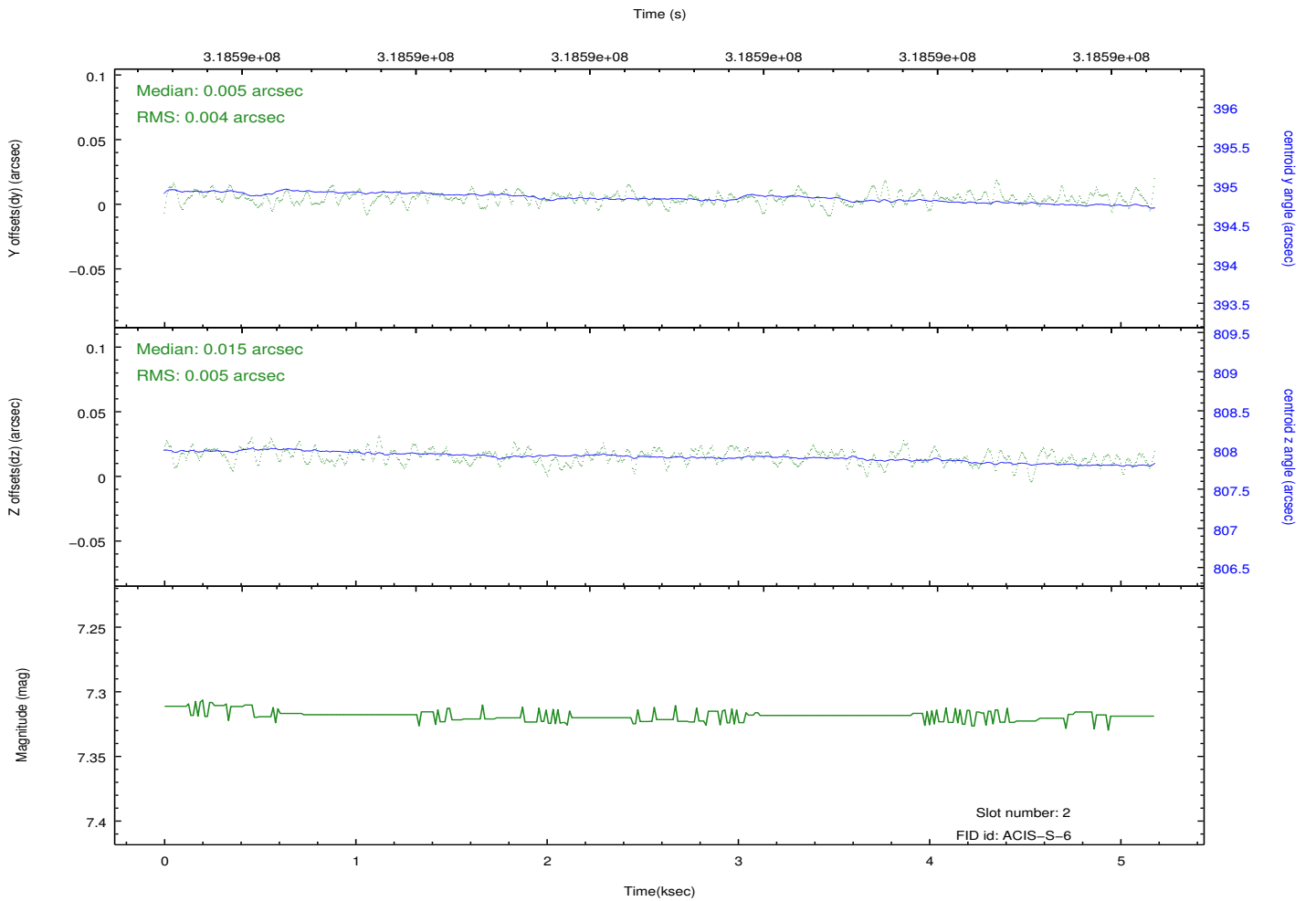
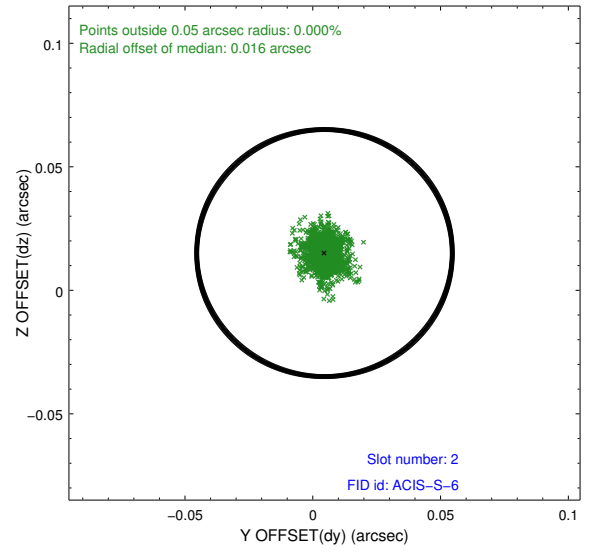
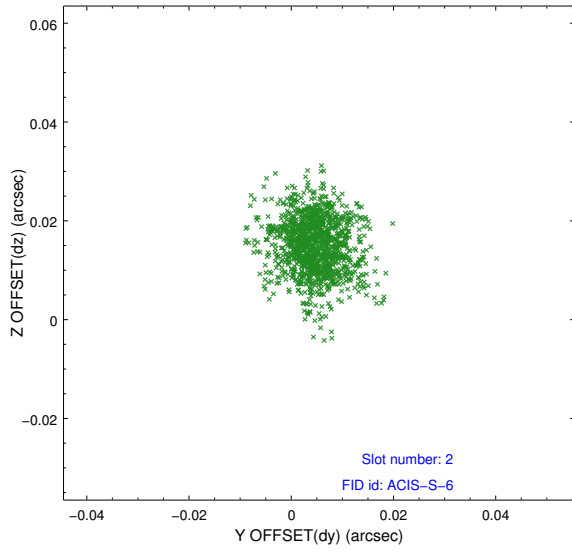
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.75519998

## A.2 Comments