

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10527 - L2 Version 2  
Chandra X-Ray Center

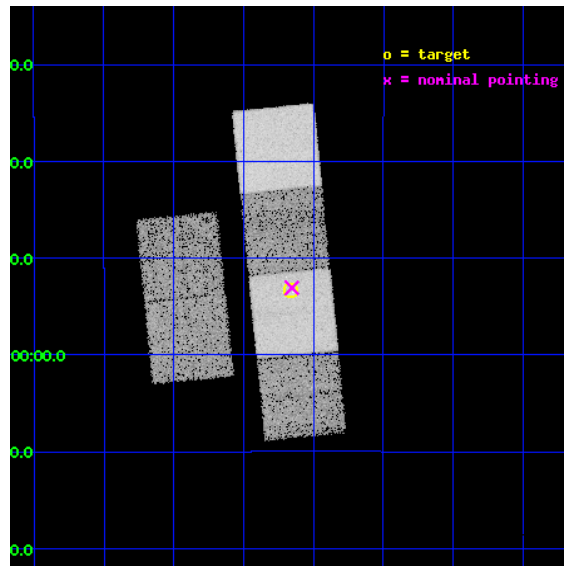
L2 Processing Date : May 30 2012

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# 1 Front

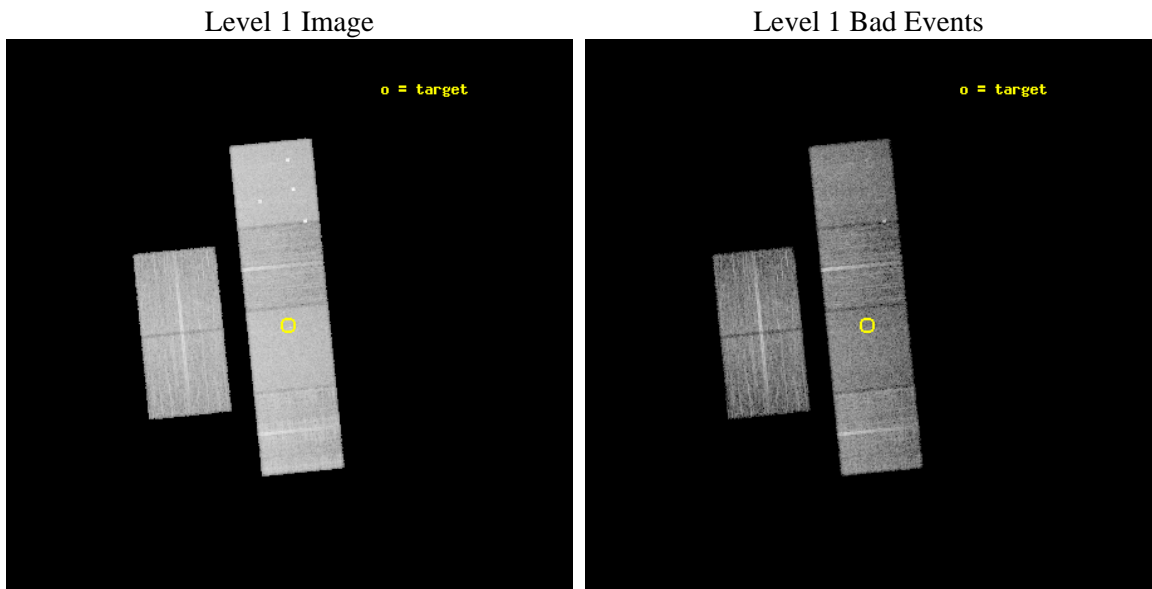
seq_num	900895	Sequence number
obs_id	10527	Observation id
title	ChIcAGO: Chandra Identification of ASCA Galactic Objects	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	AX J182509-1253	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	276.290833	Observer's specified target RA [deg]
dec_targ	-12.889	Observer's specified target Dec [deg]
ra_nom	276.2886535057	Nominal RA [deg]
dec_nom	-12.884681341168	Nominal Dec [deg]
roll_nom	84.209108860878	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8358.107427597	Sum of GTIs [s]
livetime	8252.2720387007	Livetime [s]
ontime2	8358.1484975219	Sum of GTIs [s]
ontime3	8357.9843375087	Sum of GTIs [s]
ontime5	8358.0664175153	Sum of GTIs [s]
ontime6	8358.025377512	Sum of GTIs [s]
ontime7	8358.107427597	Sum of GTIs [s]
ontime8	8354.7022077441	Sum of GTIs [s]
l2events	148155	Number of level 2 events



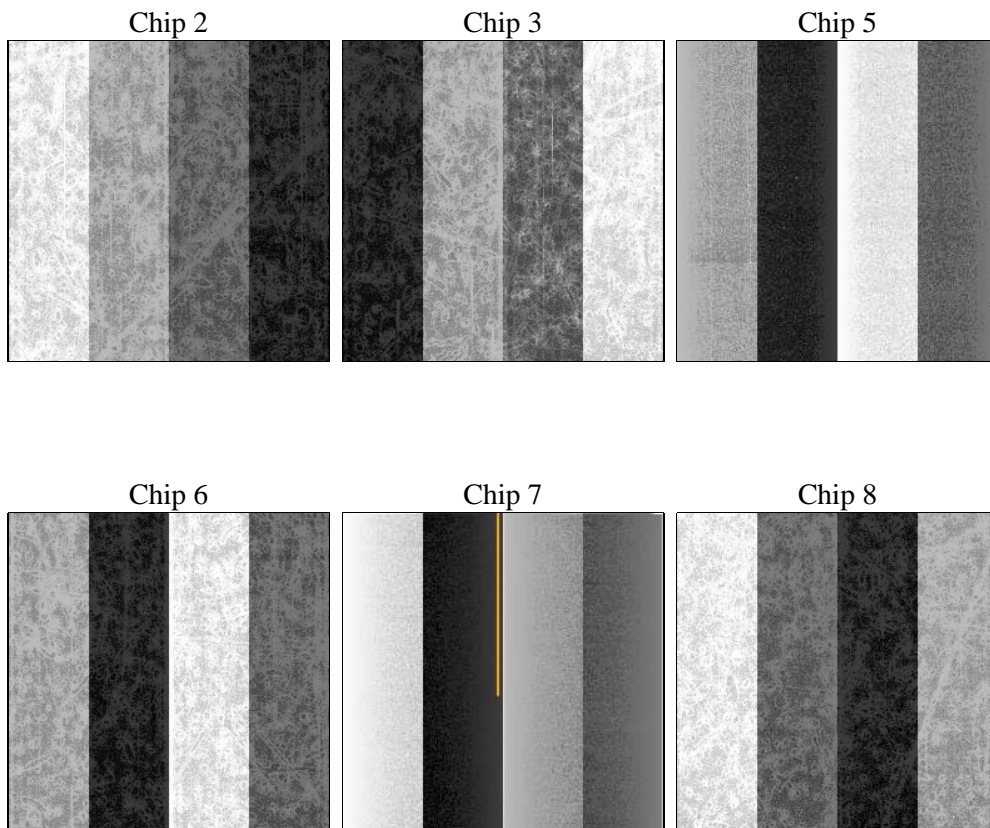
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8358.107427597	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	8358.1484975219	Sum of GTIs [s]
date	2012-05-30T23:49:14	Date and time of file creation	ontime3	8357.9843375087	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	8358.0664175153	Sum of GTIs [s]
			ontime6	8358.025377512	Sum of GTIs [s]
			ontime7	8358.107427597	Sum of GTIs [s]
			ontime8	8354.7022077441	Sum of GTIs [s]
			l1events	621980	Number of level 1 events

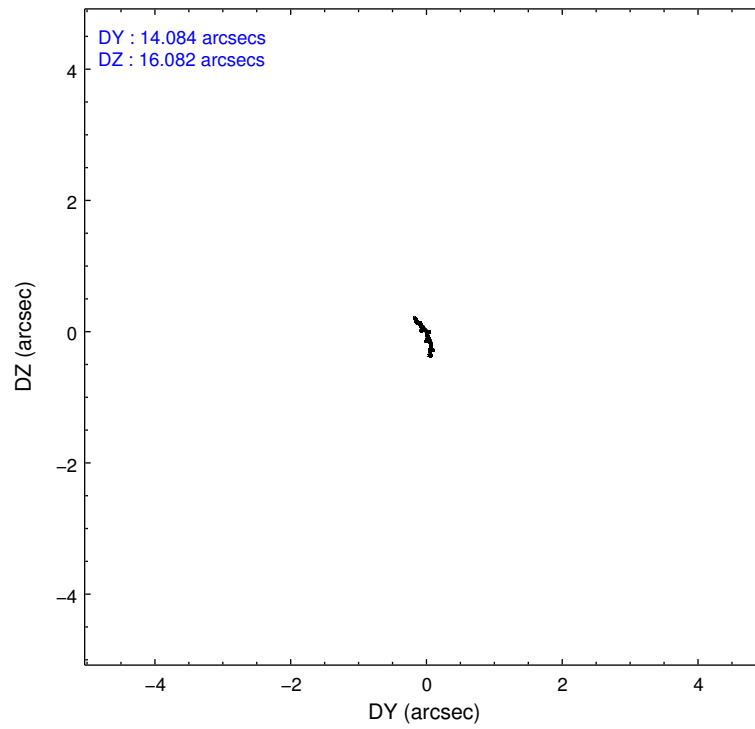
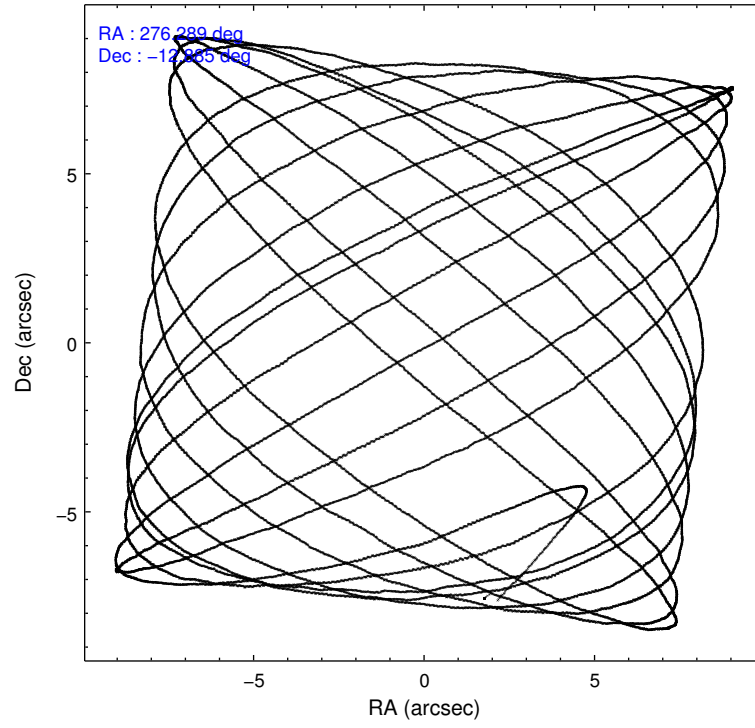
### 2.1.4 Events

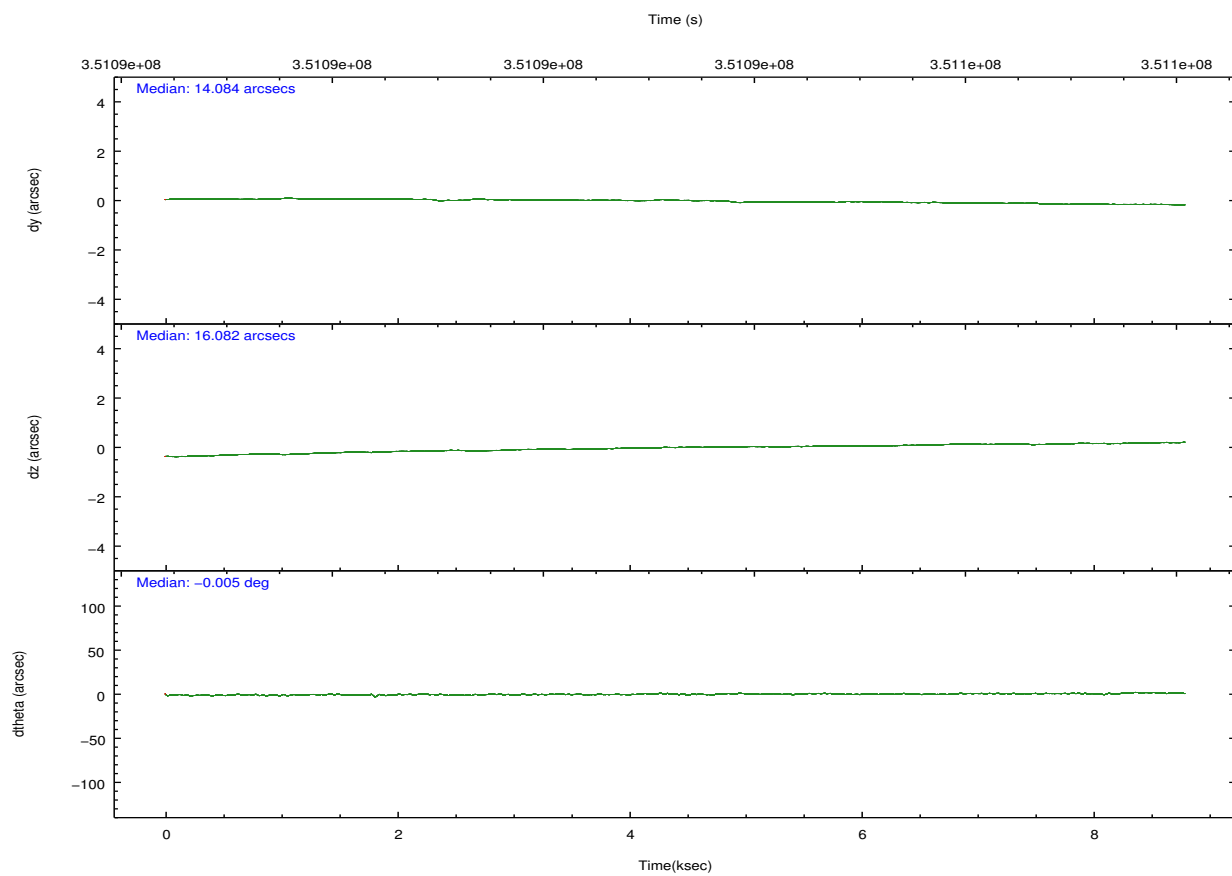
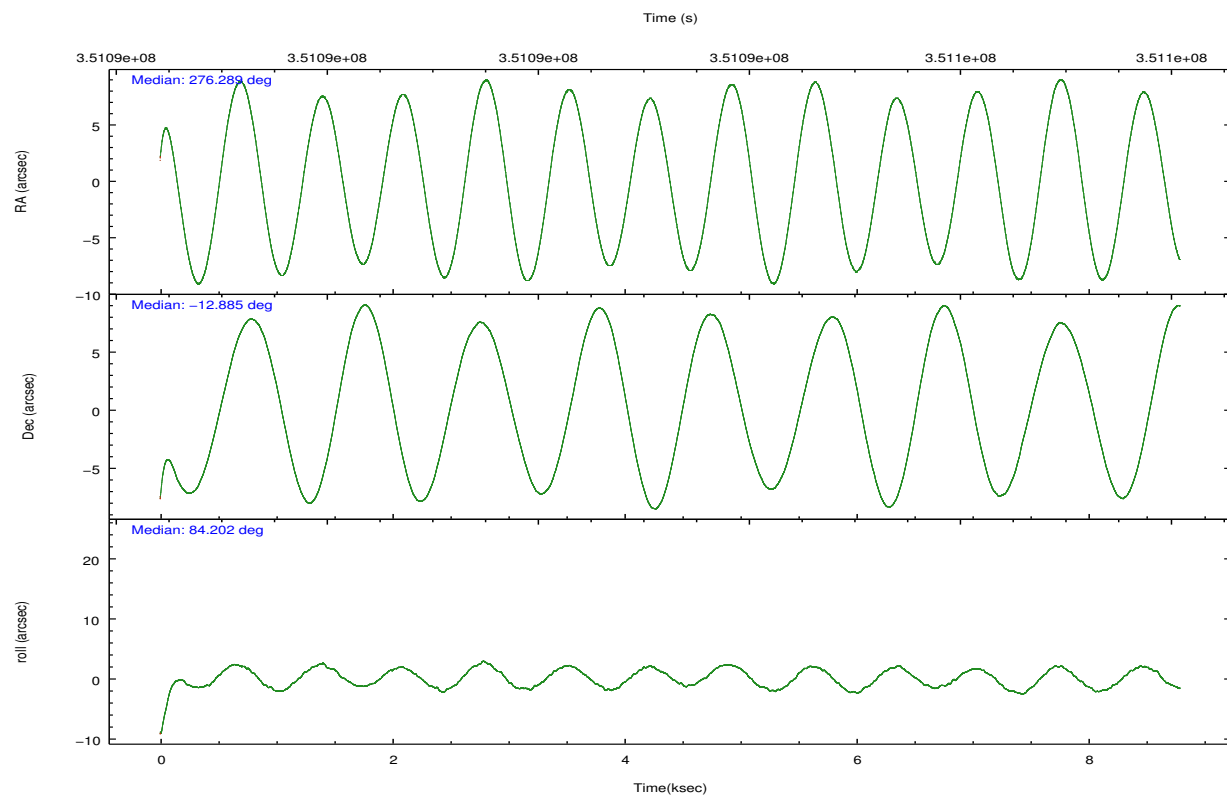
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	85805	82449	133828	82934	119872	117092	grade 0 events	5005	5662	6574	4468	4347	9017
rejected events	74614	70699	70953	71863	69448	89615		5%	6%	4%	5%	3%	7%
rejected %	86%	85%	53%	86%	57%	76%	grade 1 events	73	56	446	44	113	99
								0%	0%	0%	0%	0%	0%
							grade 2 events	2370	2246	18974	2420	10507	5981
								2%	2%	14%	2%	8%	5%
							grade 3 events	993	1056	2285	1004	4376	2904
								1%	1%	1%	1%	3%	2%
							grade 4 events	1003	962	2269	1026	4205	2712
								1%	1%	1%	1%	3%	2%
							grade 5 events	3489	4000	9465	4084	10988	5406
								4%	4%	7%	4%	9%	4%
							grade 6 events	1823	1828	32808	2158	27012	6874
								2%	2%	24%	2%	22%	5%
							grade 7 events	71049	66639	61007	67730	58324	84099
								82%	80%	45%	81%	48%	71%

## 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	276.300509	276.2886535057041	CCD I2 on	O2	Y
[deg] Pointing Dec	-12.909417	-12.88468134116752	CCD I3 on	O3	Y
[deg] Pointing Roll	84.055147	84.20910886087816	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	O5	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	O4	Y
[s] Observation start time (MET)	351089046.184000	351088096.95495	CCD S5 on	N	N
Observation start date	2009-02-15T12:43:00	2009-02-15T12:28:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351097646.184000	351097788.33043	On-chip summing requested	N	N
Observation end date	2009-02-15T15:06:20	2009-02-15T15:09:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



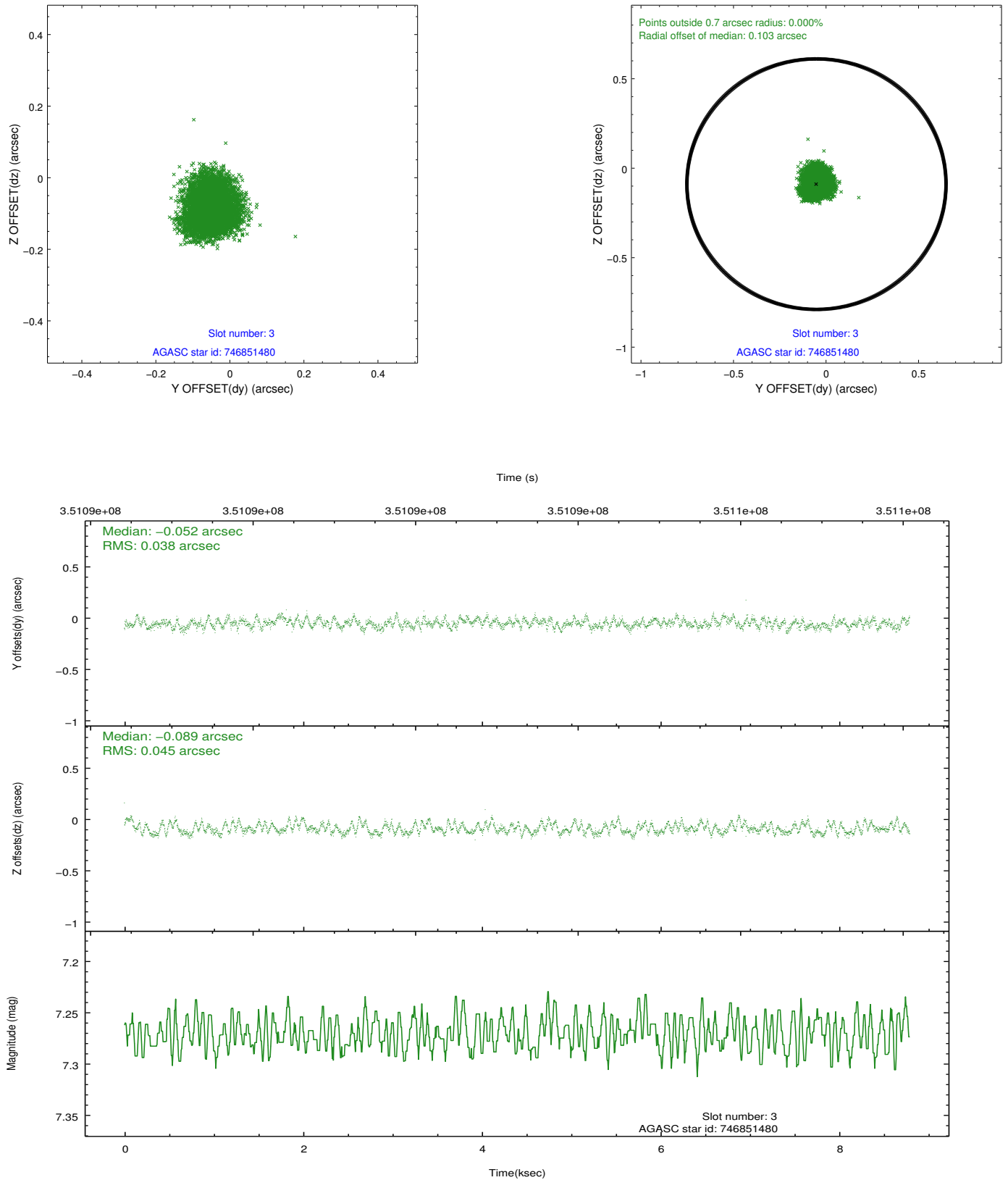


### Slot Statistics

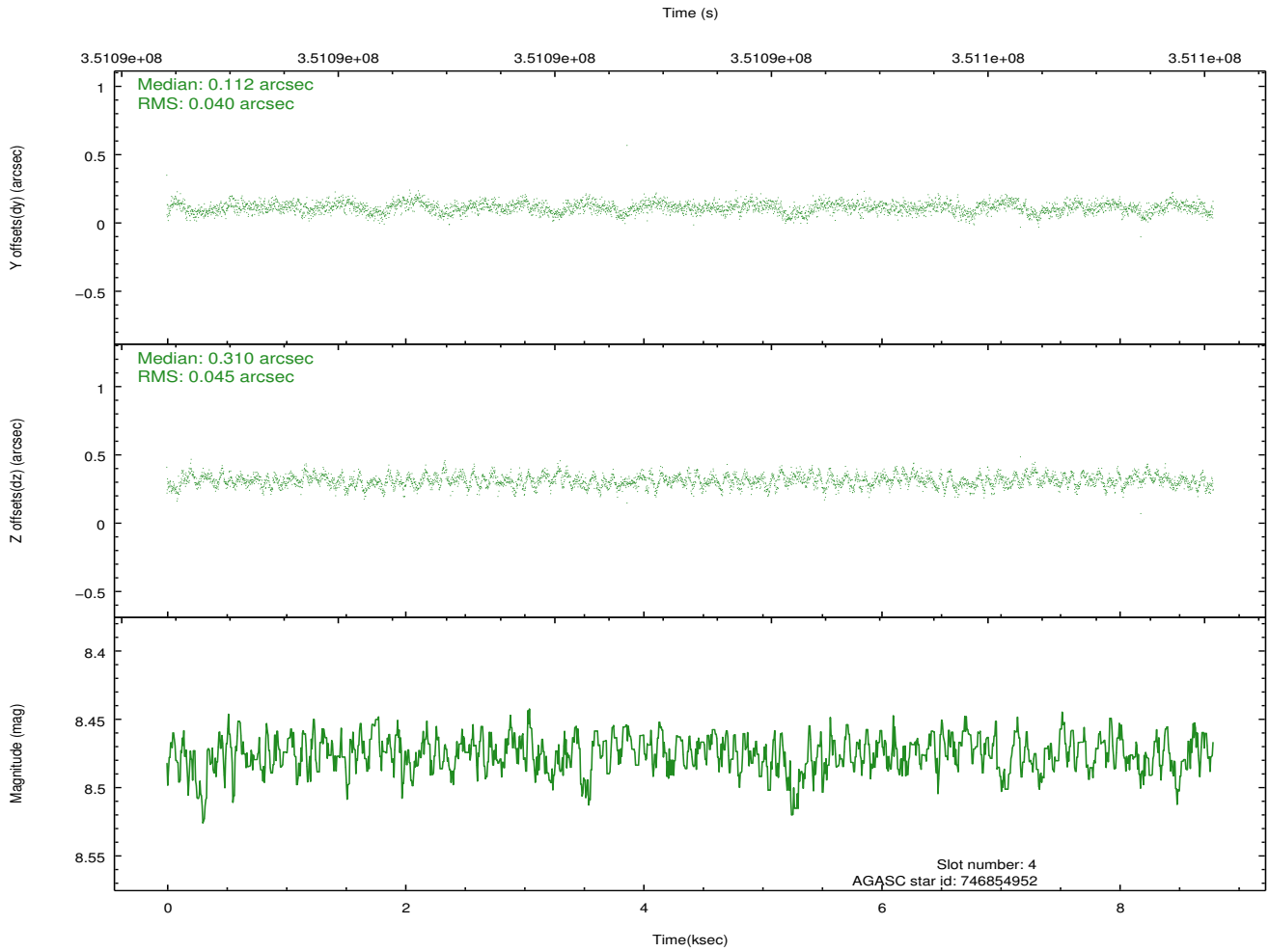
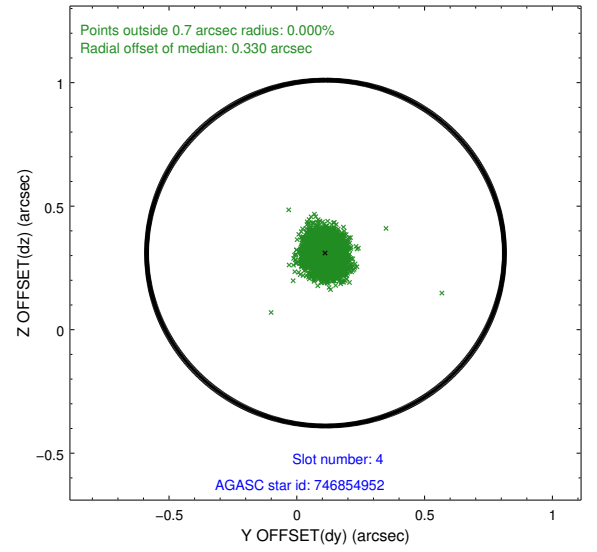
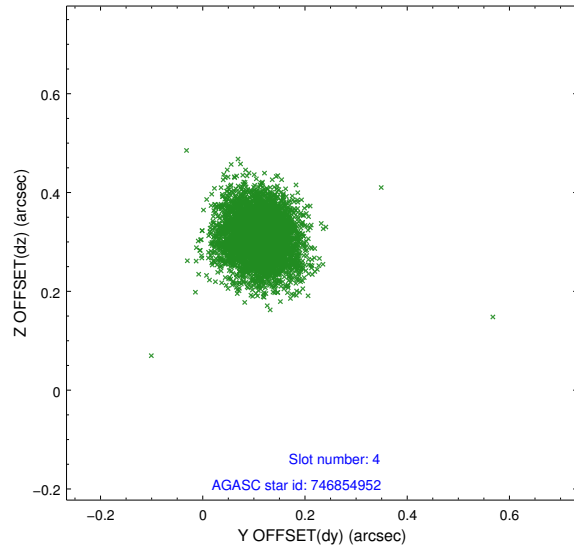
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.98	2145	0.041	-0.066	0.011	0.019	0.000000	0.000000	929.07	-1733.10
1	FID	ACIS-S-4	6.99	2145	0.136	0.031	0.009	0.014	0.000000	0.000000	2146.91	170.52
2	FID	ACIS-S-5	7.02	2145	-0.203	0.048	0.008	0.013	0.000000	0.000000	-1819.25	164.82
3	GUIDE	746851480	7.27	4288	-0.052	-0.089	0.065	0.098	275.998802	-12.584966	1051.53	1175.18
4	GUIDE	746854952	8.48	4287	0.112	0.310	0.064	0.102	276.590453	-12.990635	-185.20	-1041.53
5	GUIDE	746883888	7.65	4288	-0.114	-0.146	0.056	0.098	275.829811	-12.300383	2007.82	1873.44
6	GUIDE	747388944	7.65	4288	0.192	0.039	0.056	0.094	276.577312	-13.360850	-1515.38	-1132.55
7	GUIDE	746890536	8.11	4285	-0.143	-0.115	0.051	0.083	276.045818	-12.231642	2333.39	1143.75

## 2.4 Star Slots

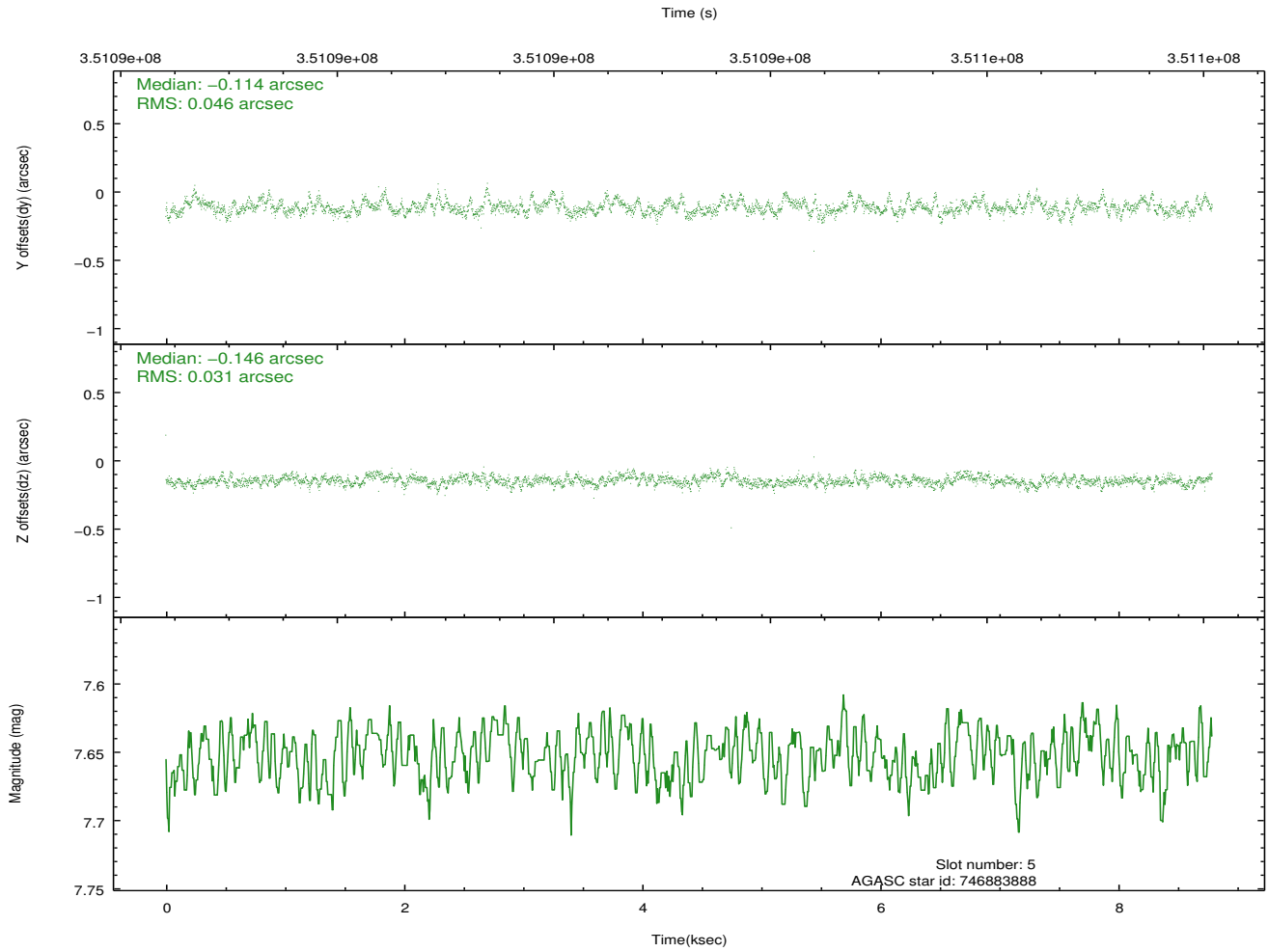
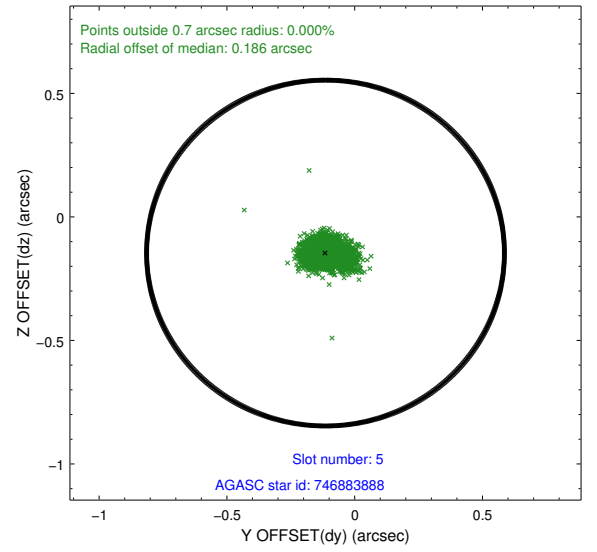
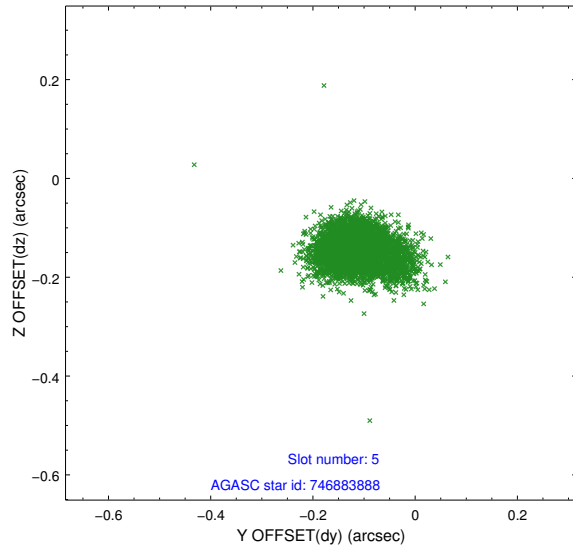
### 2.4.1 Slot 3



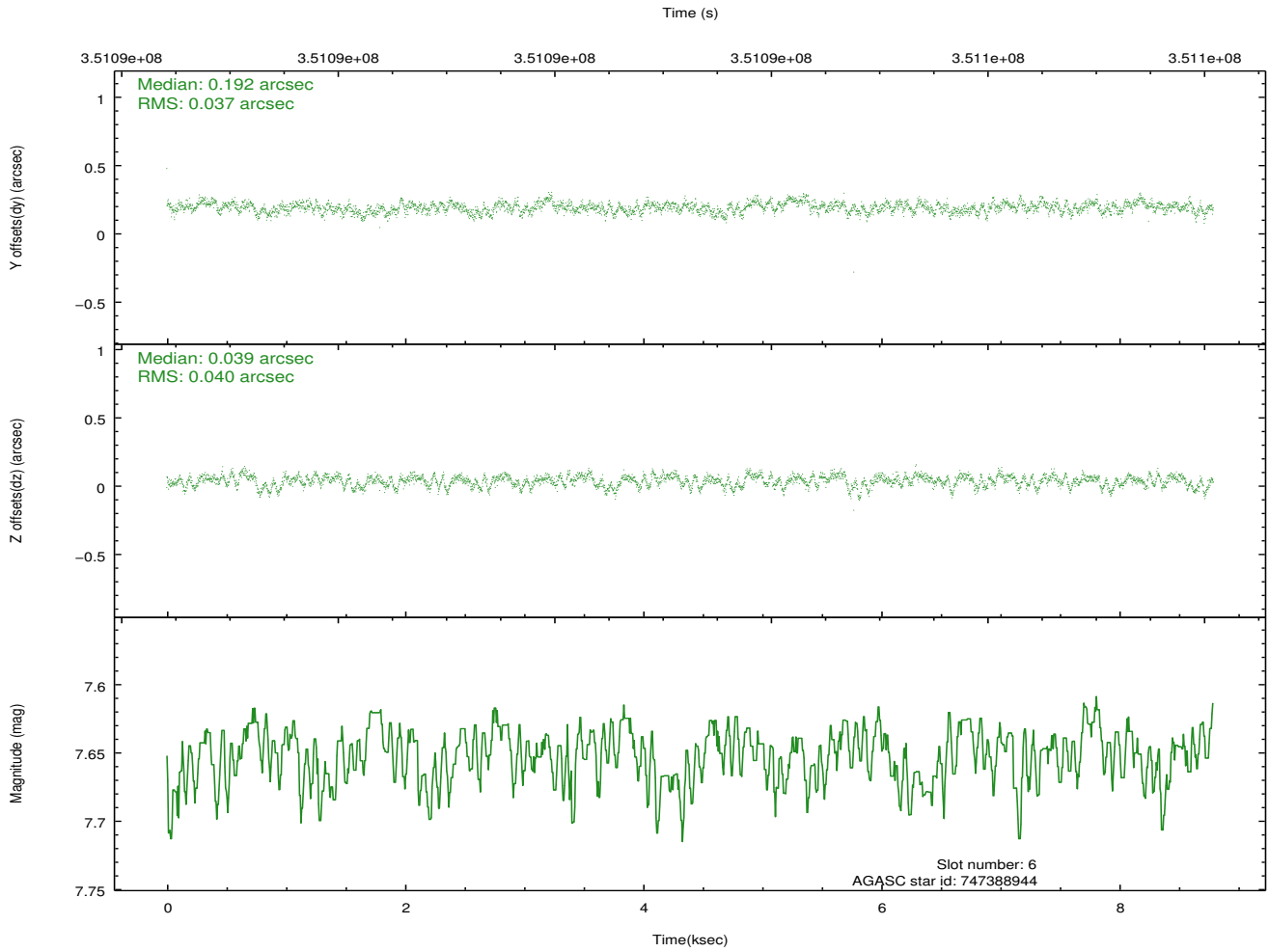
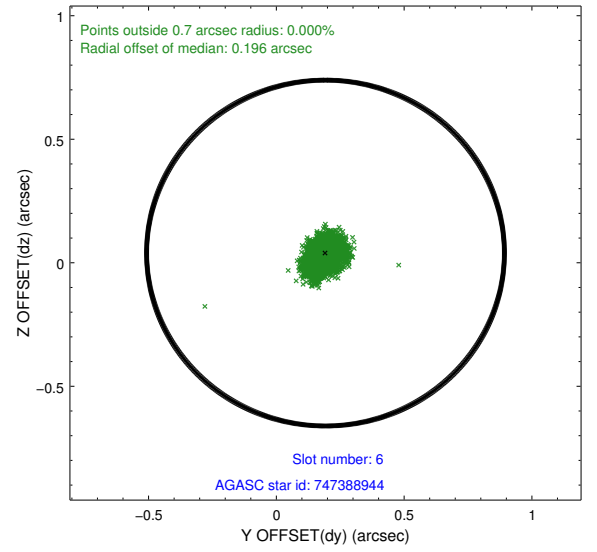
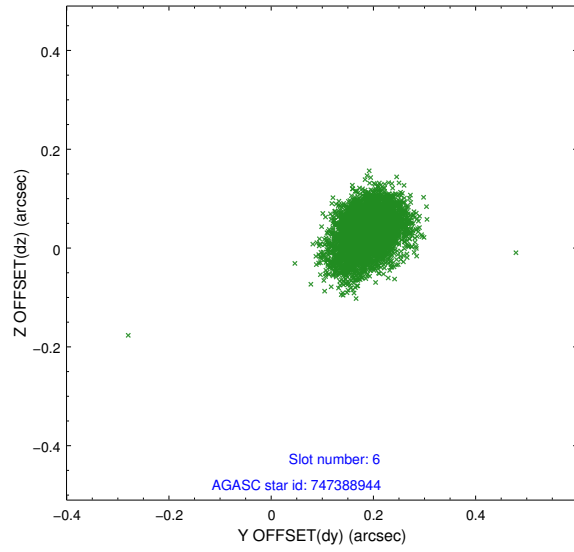
## 2.4.2 Slot 4



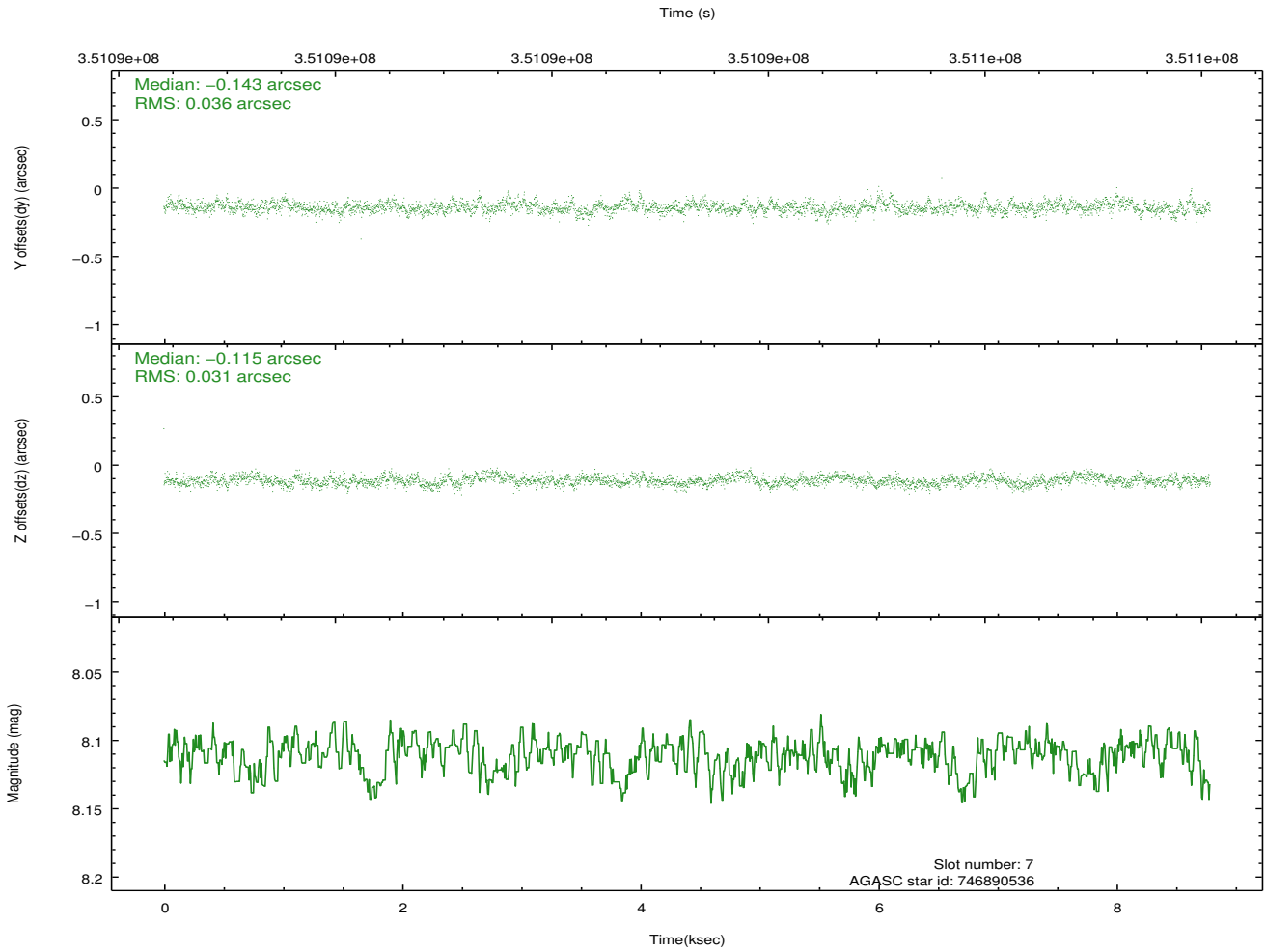
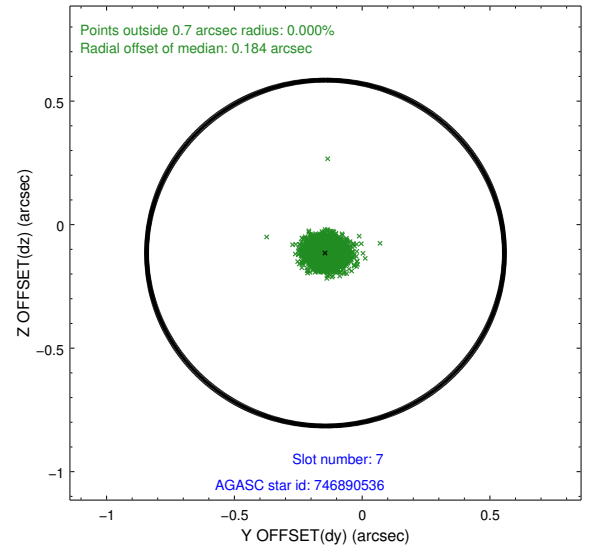
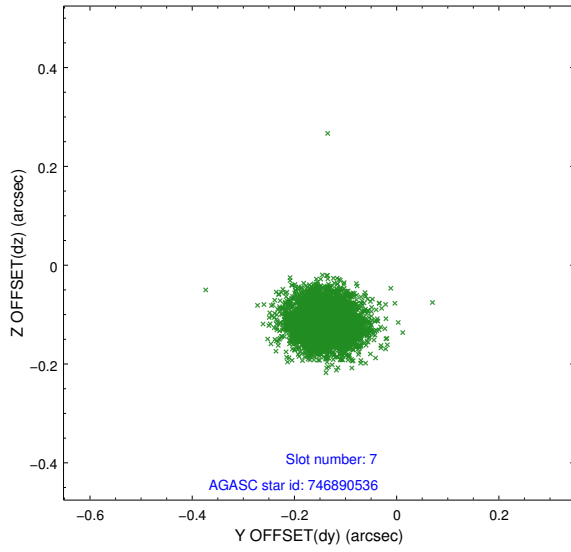
### 2.4.3 Slot 5



## 2.4.4 Slot 6

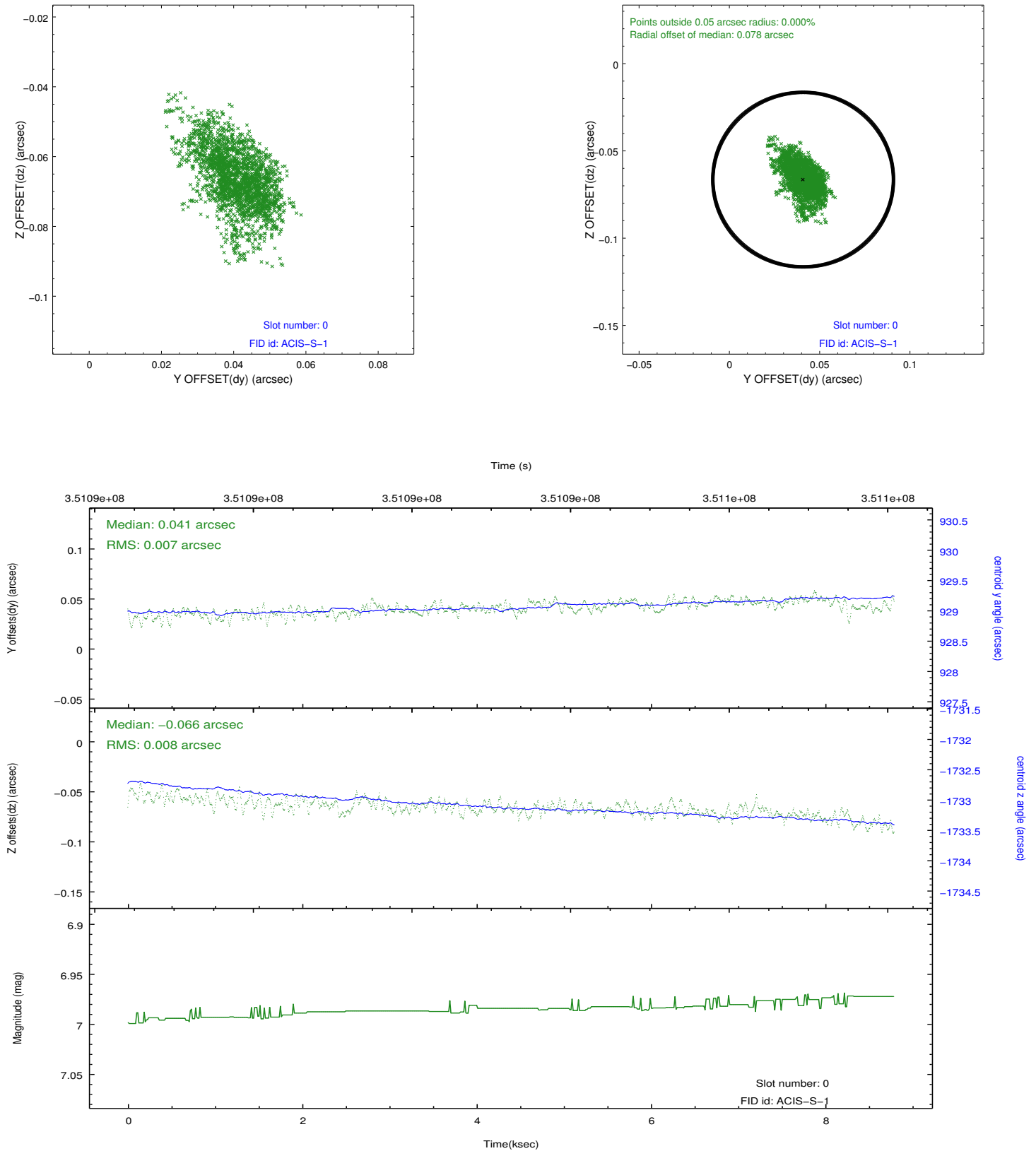


## 2.4.5 Slot 7

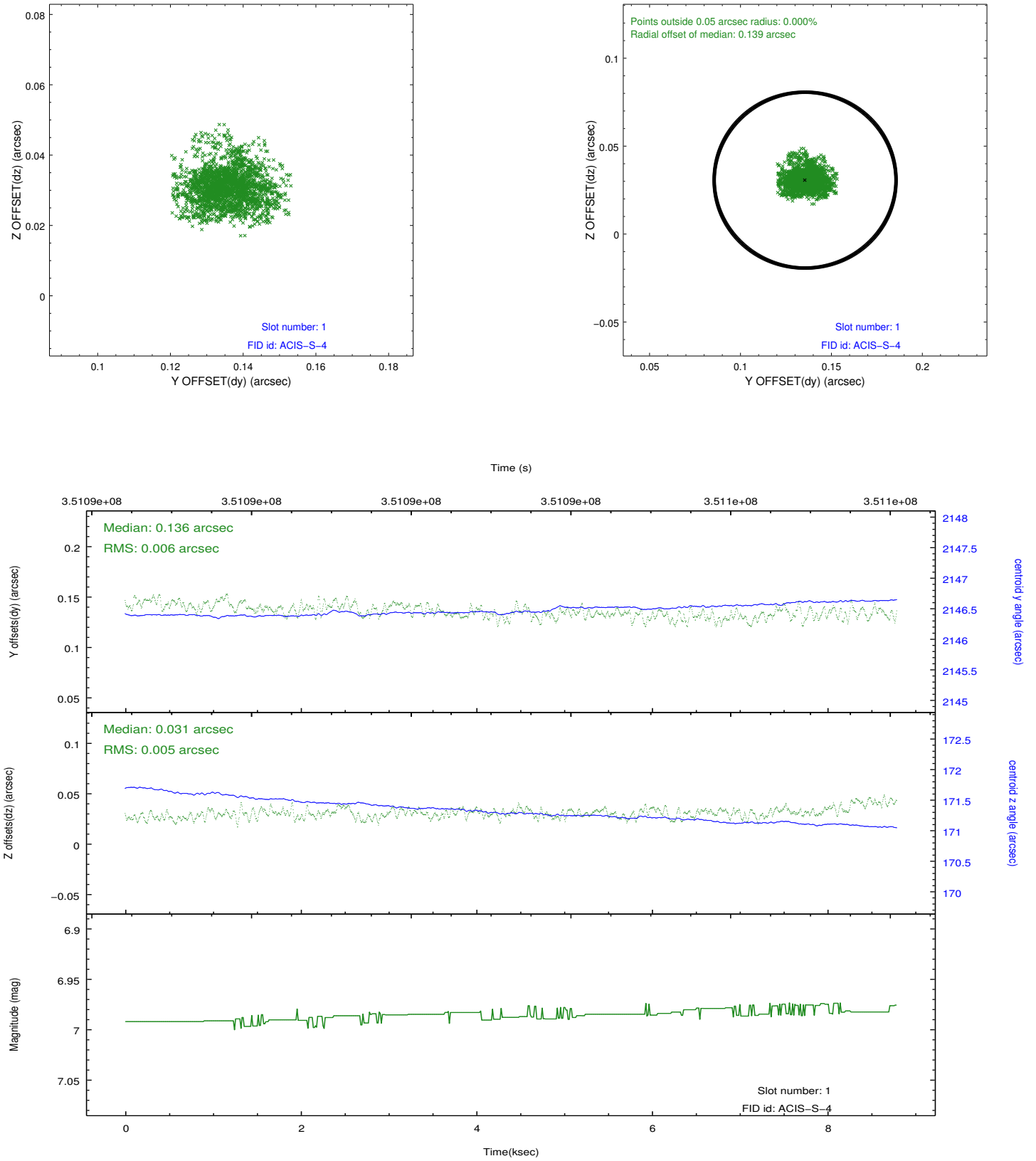


## 2.5 FID Slots

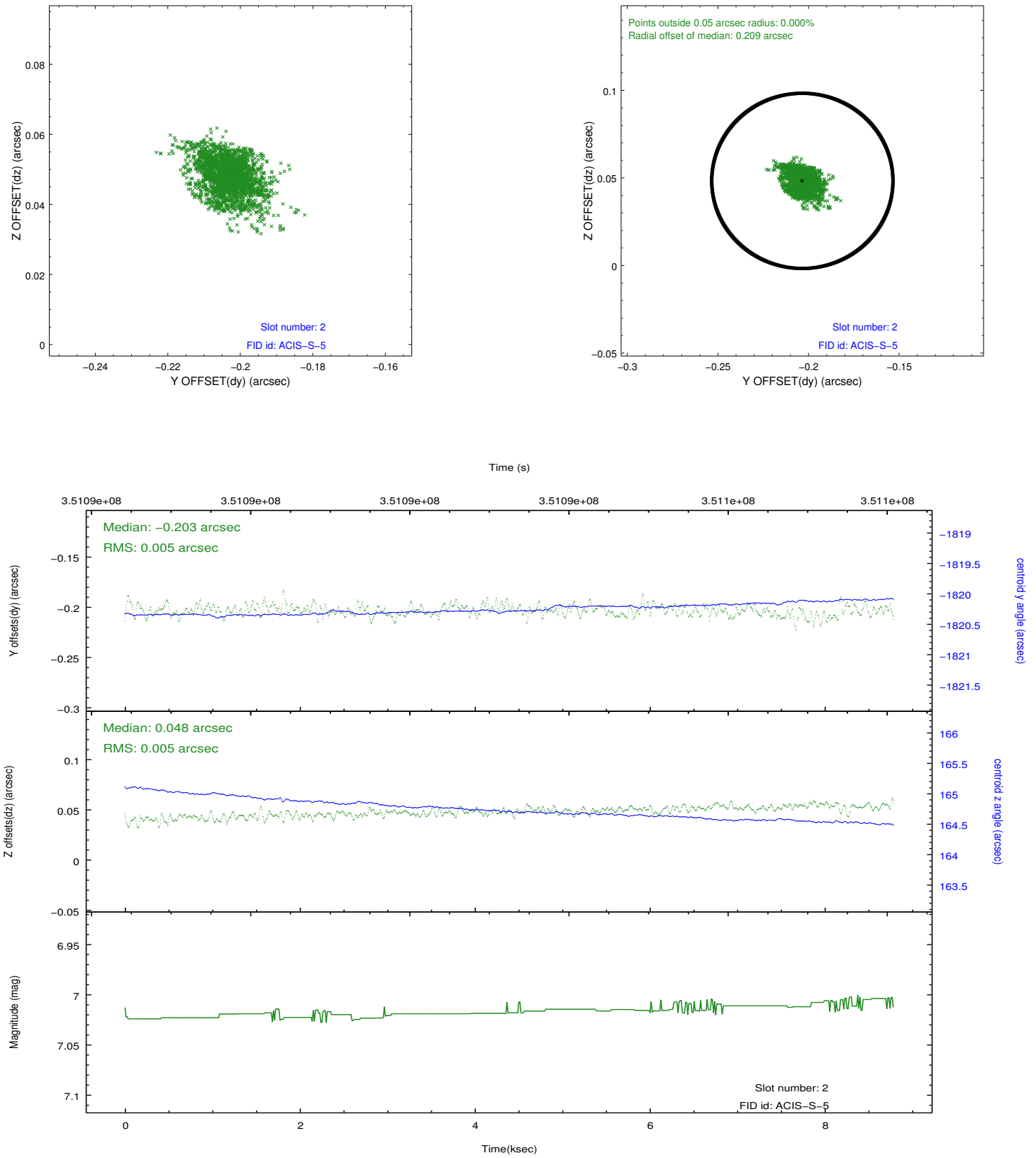
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3583999688625

### A.2 Comments