

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11264 - L2 Version 2  
Chandra X-Ray Center

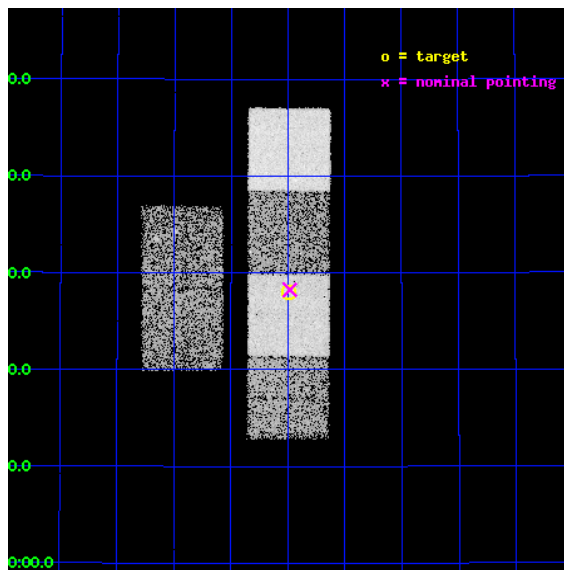
L2 Processing Date : Jun 29 2012

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# 1 Front

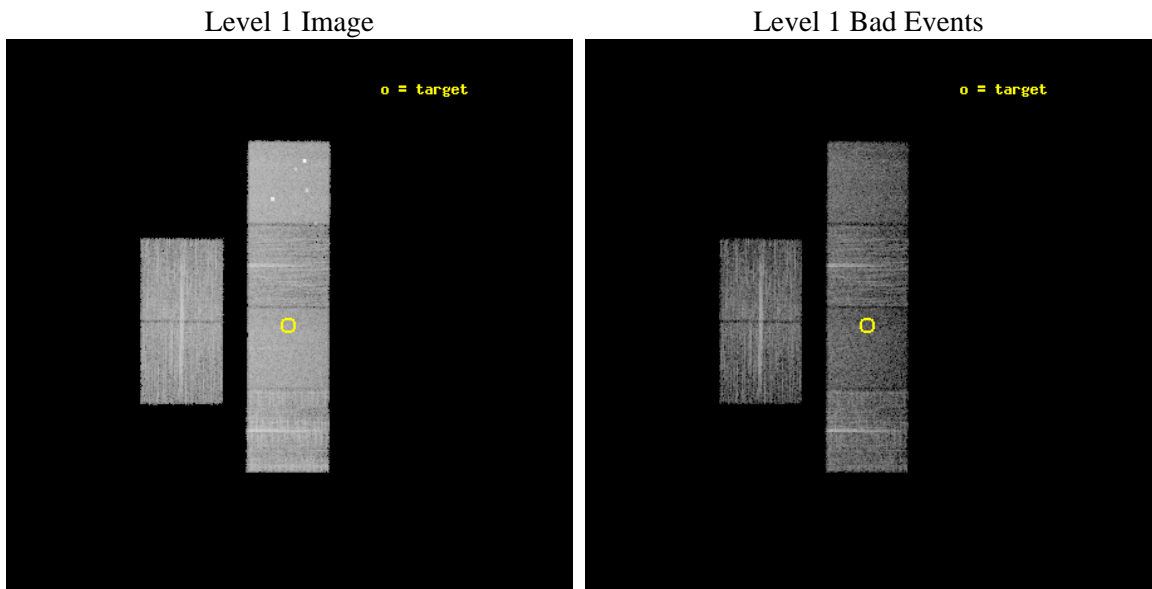
seq_num	600783	Sequence number
obs_id	11264	Observation id
title	Snapshots of Isolated Elliptical Galaxies	Proposal title
observer	Dr. DAVID BUOTE	Principal investigator
object	UGC 02328	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	42.74875	Observer's specified target RA [deg]
dec_targ	37.466639	Observer's specified target Dec [deg]
ra_nom	42.745503953239	Nominal RA [deg]
dec_nom	37.470772380967	Nominal Dec [deg]
roll_nom	90.232313437426	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7545.5999719501	Sum of GTIs [s]
livetime	7450.0530416904	Livetime [s]
ontime2	7545.5999719501	Sum of GTIs [s]
ontime3	7545.5999719501	Sum of GTIs [s]
ontime5	7545.5999719501	Sum of GTIs [s]
ontime6	7542.3589817286	Sum of GTIs [s]
ontime7	7545.5999719501	Sum of GTIs [s]
ontime8	7545.5999719501	Sum of GTIs [s]
l2events	90716	Number of level 2 events



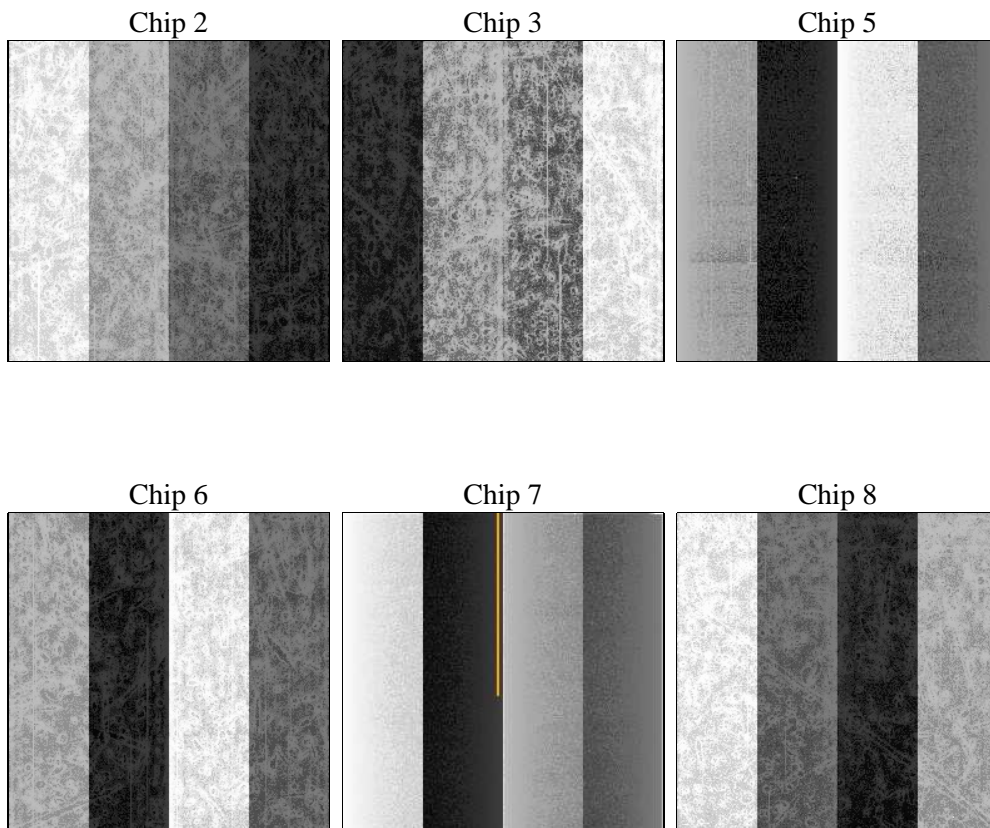
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7545.5999719501	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	7545.5999719501	Sum of GTIs [s]
date	2012-06-29T09:47:07	Date and time of file creation	ontime3	7545.5999719501	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7545.5999719501	Sum of GTIs [s]
			ontime6	7542.3589817286	Sum of GTIs [s]
			ontime7	7545.5999719501	Sum of GTIs [s]
			ontime8	7545.5999719501	Sum of GTIs [s]
			l1events	391734	Number of level 1 events

### 2.1.4 Events

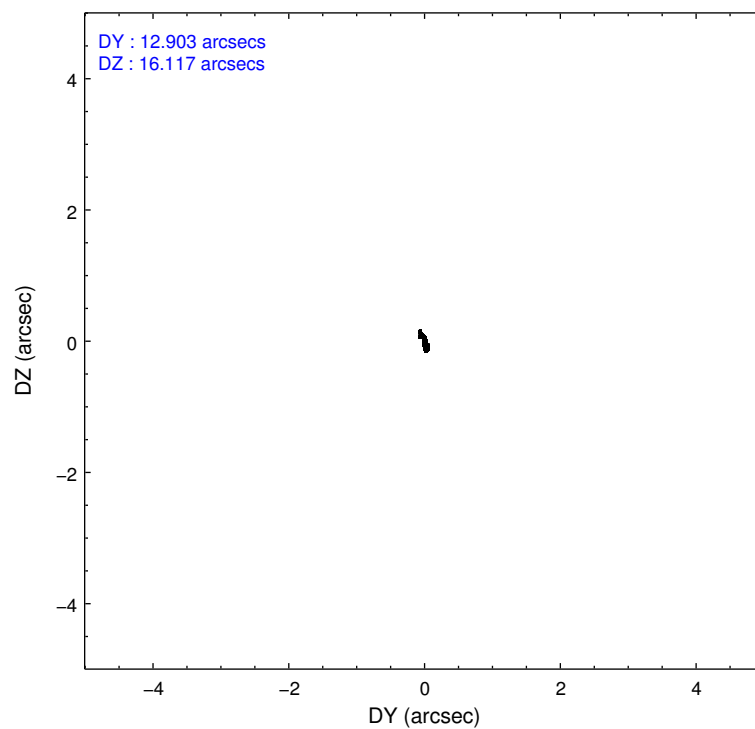
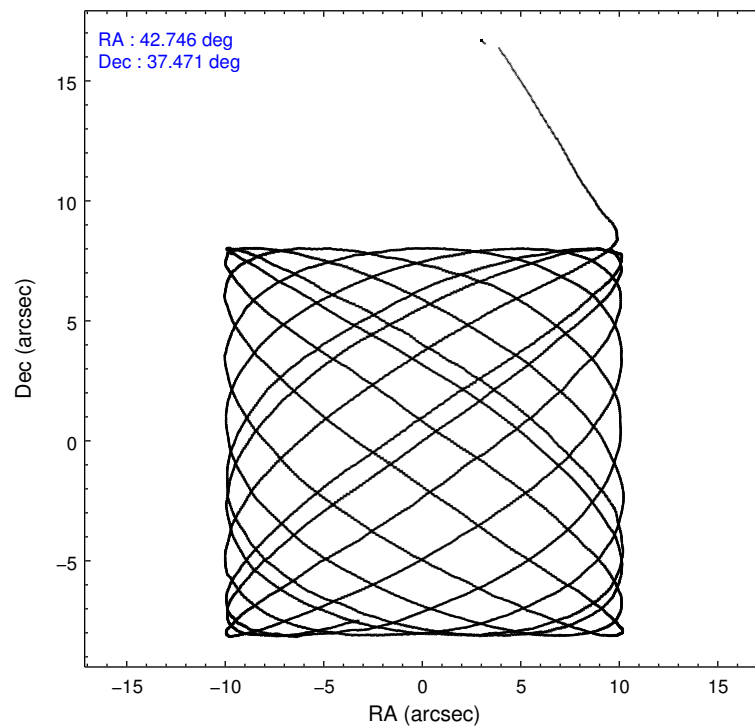
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	57378	54278	86375	55397	66632	71674	grade 0 events	2256	1860	5557	2199	2878	5487
rejected events	51251	48722	42336	49003	36278	52979		3%	3%	6%	3%	4%	7%
rejected %	89%	89%	49%	88%	54%	73%	grade 1 events	42	16	202	32	79	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	1458	1222	13250	1488	6311	4439
								2%	2%	15%	2%	9%	6%
							grade 3 events	617	653	1642	674	2624	1924
								1%	1%	1%	1%	3%	2%
							grade 4 events	629	623	1638	671	2732	1759
								1%	1%	1%	1%	4%	2%
							grade 5 events	2101	2432	6556	2547	7060	3716
								3%	4%	7%	4%	10%	5%
							grade 6 events	1170	1200	21997	1366	15846	5102
								2%	2%	25%	2%	23%	7%
							grade 7 events	49105	46272	35533	46420	29102	49192
								85%	85%	41%	83%	43%	68%

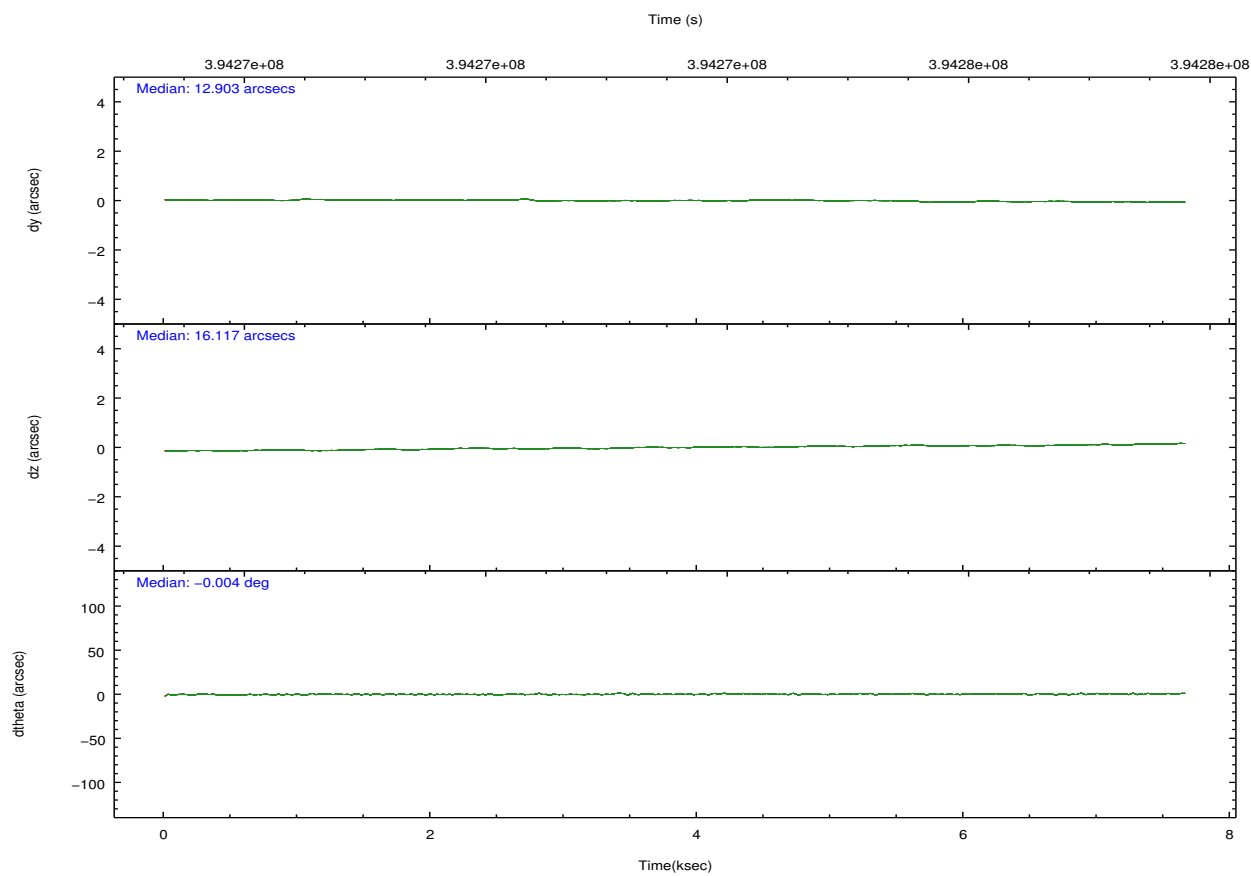
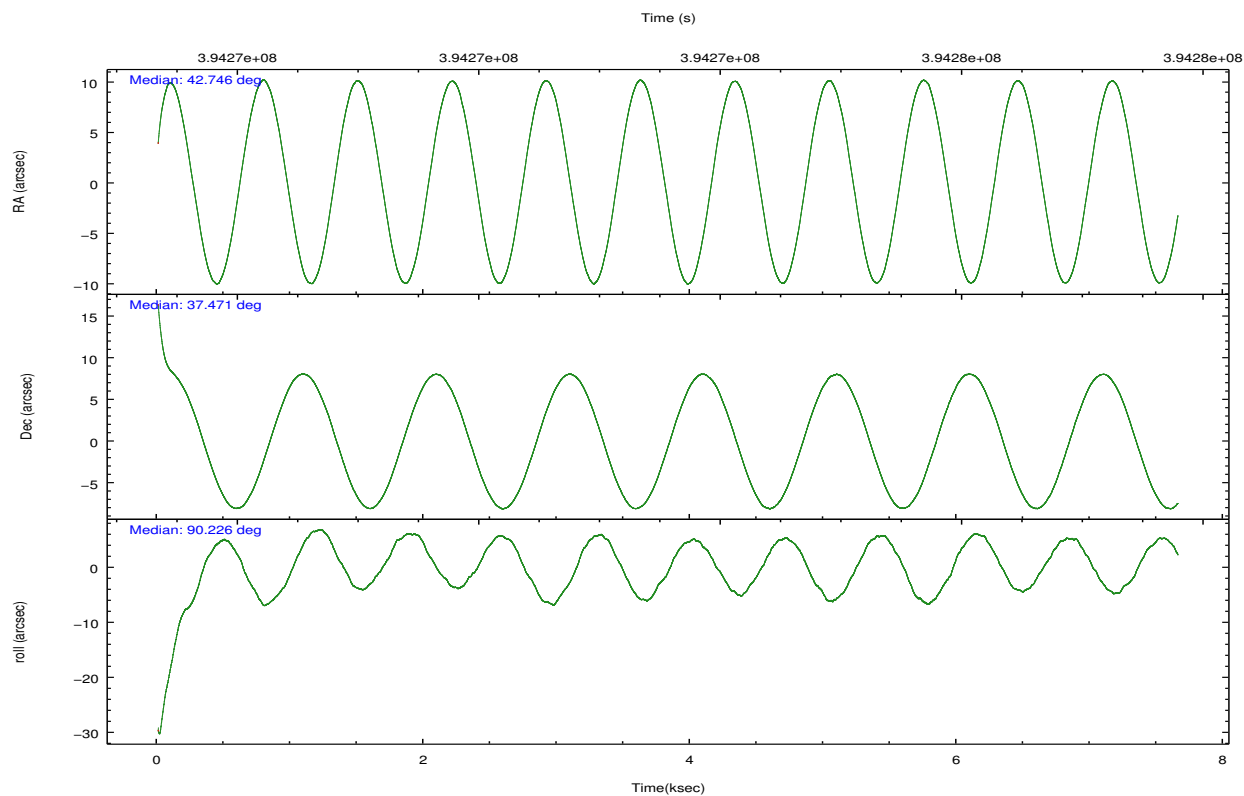


## 2.2 Compared Parameters

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	42.763265	42.7455039532388	CCD I2 on	O2	Y
[deg] Pointing Dec	37.447321	37.47077238096675	CCD I3 on	Y	Y
[deg] Pointing Roll	90.064914	90.23231343742565	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	O1	Y
[s] Observation start time (MET)	394269896.184000	394268519.61547	CCD S5 on	N	N
Observation start date	2010-06-30T07:23:50	2010-06-30T07:01:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	394277396.184000	394277573.44093	On-chip summing requested	N	N
Observation end date	2010-06-30T09:28:50	2010-06-30T09:32:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



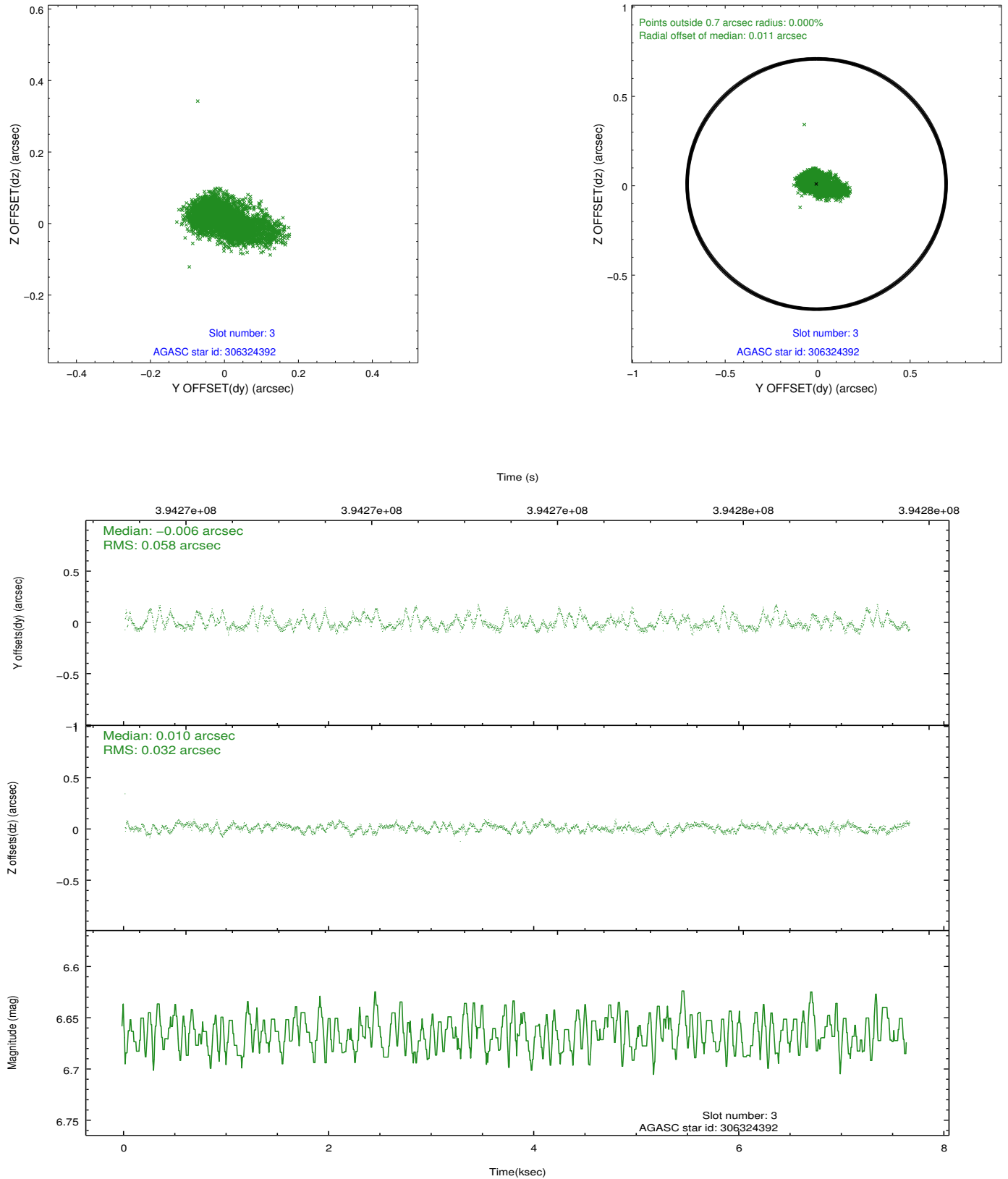


### Slot Statistics

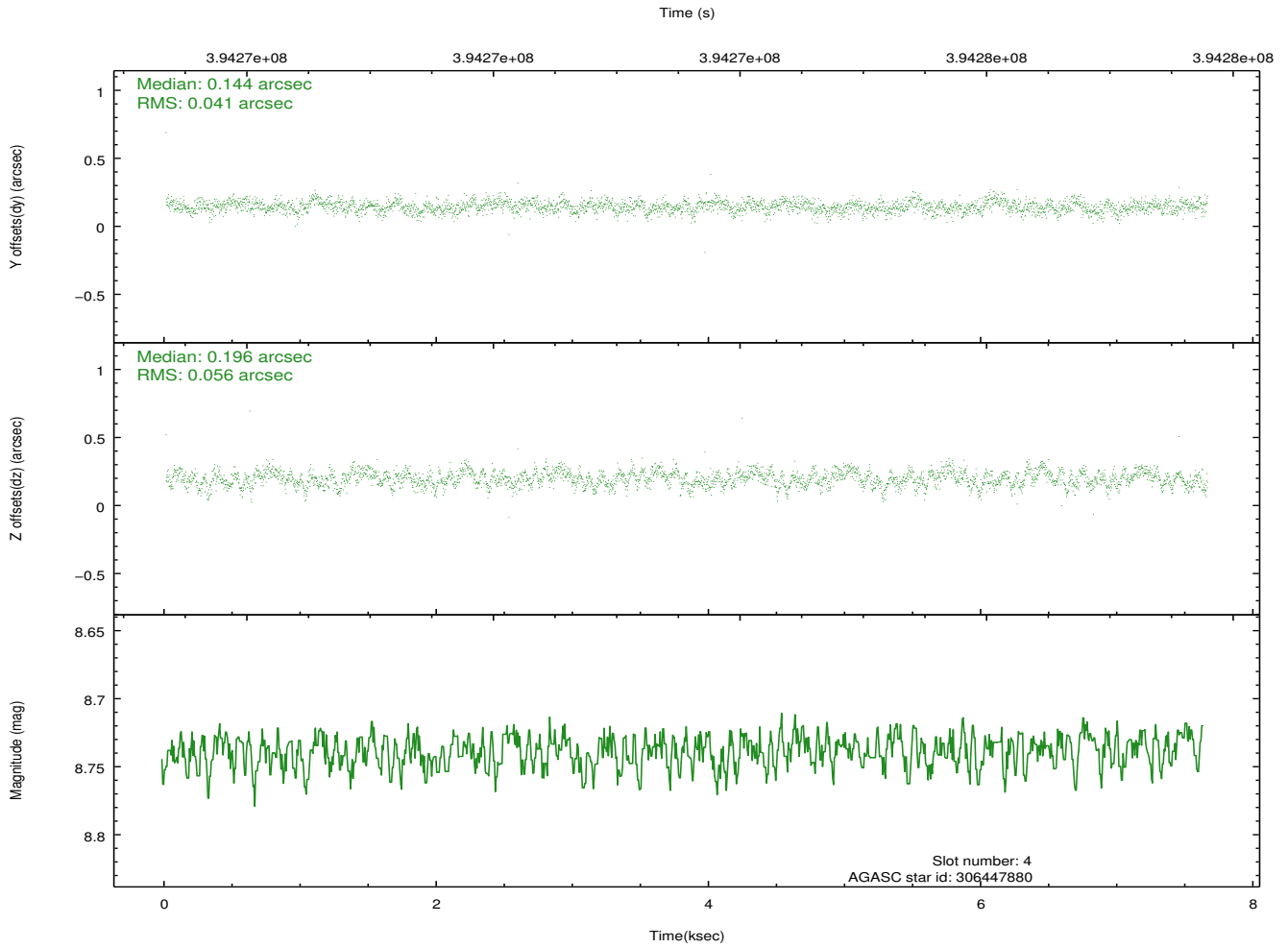
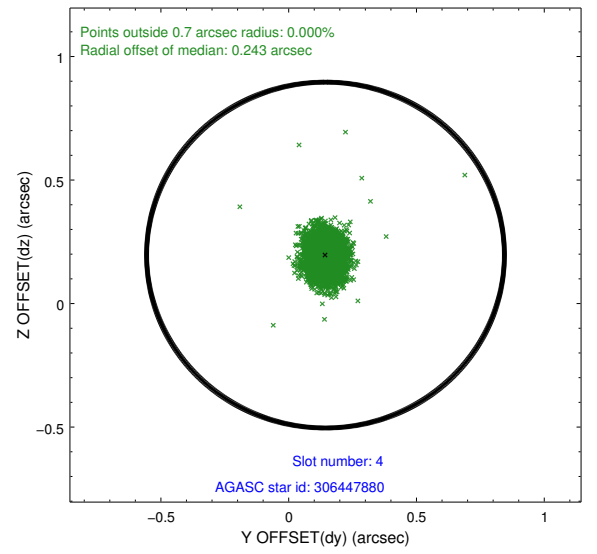
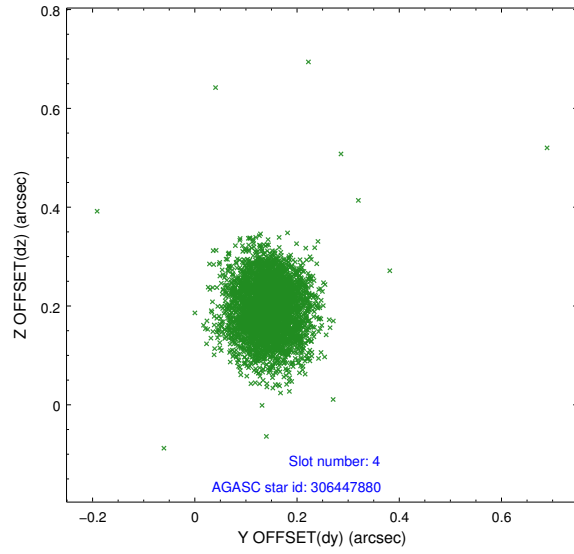
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1867	-0.068	-0.040	0.007	0.012	0.000000	0.000000	-765.89	-1737.55
1	FID	ACIS-S-4	7.00	1867	0.086	0.029	0.007	0.012	0.000000	0.000000	2147.21	170.21
2	FID	ACIS-S-6	7.14	1867	-0.046	0.018	0.006	0.011	0.000000	0.000000	397.08	808.45
3	GUIDE	306324392	6.66	3734	-0.006	0.010	0.067	0.125	42.362135	37.326419	-431.39	1148.95
4	GUIDE	306447880	8.74	3733	0.144	0.196	0.072	0.116	43.558980	37.377417	-243.94	-2275.52
5	GUIDE	306448336	9.26	3730	0.216	0.099	0.094	0.149	43.028401	37.019776	-1538.80	-761.20
6	GUIDE	372916152	8.30	3732	-0.139	-0.233	0.065	0.103	42.238077	37.659466	768.23	1495.61
7	GUIDE	373041704	8.67	3732	-0.221	-0.072	0.084	0.131	43.075027	37.890063	1594.67	-886.89

## 2.4 Star Slots

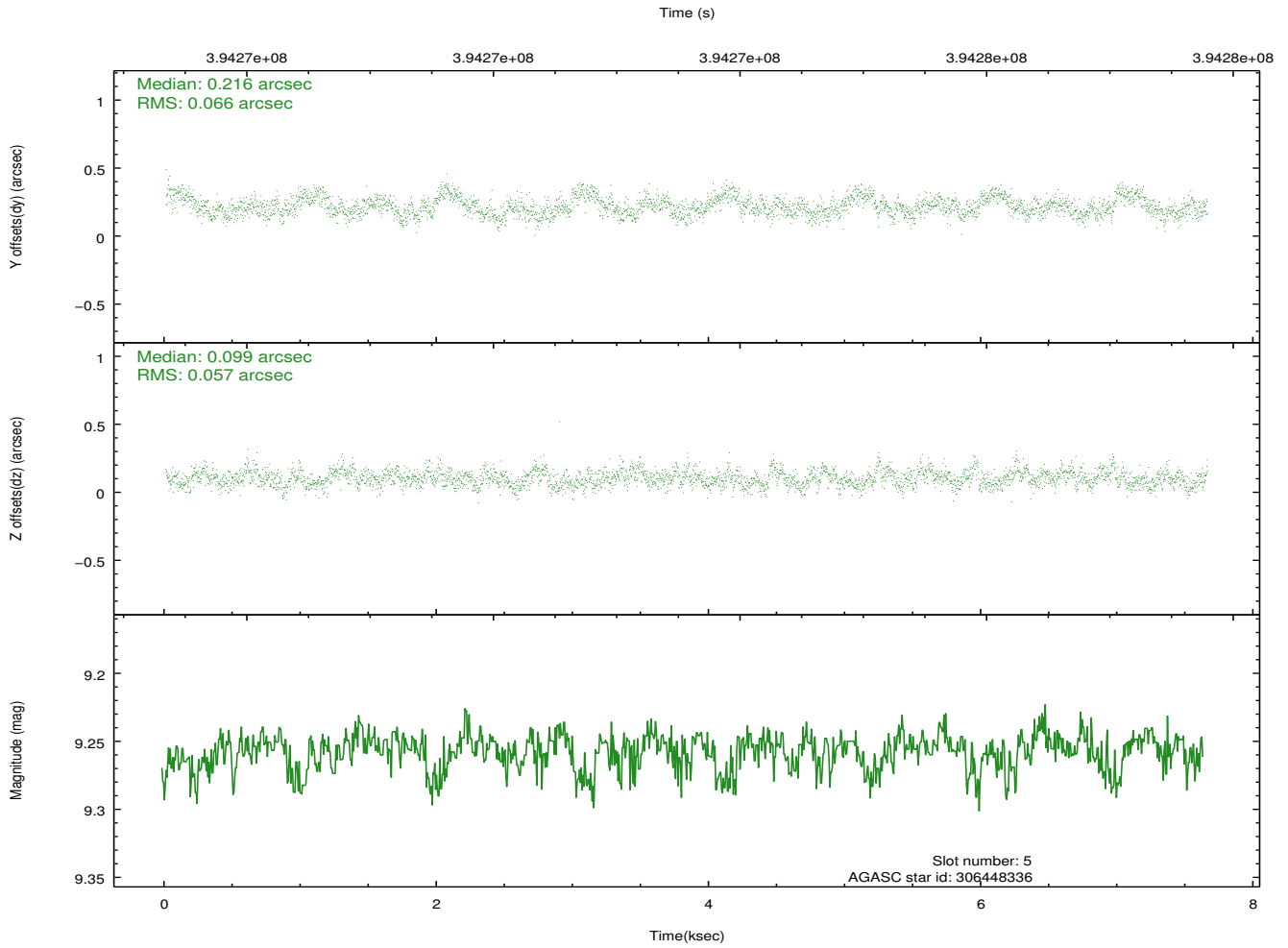
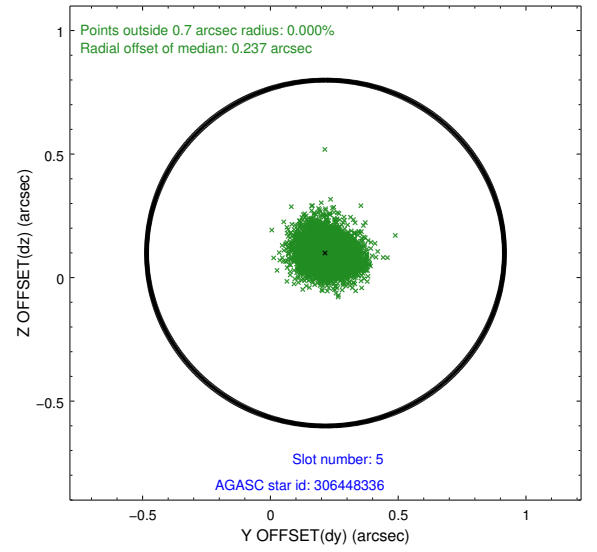
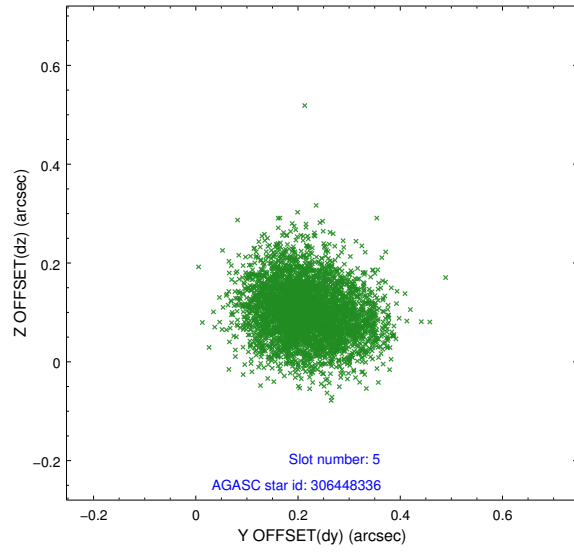
### 2.4.1 Slot 3



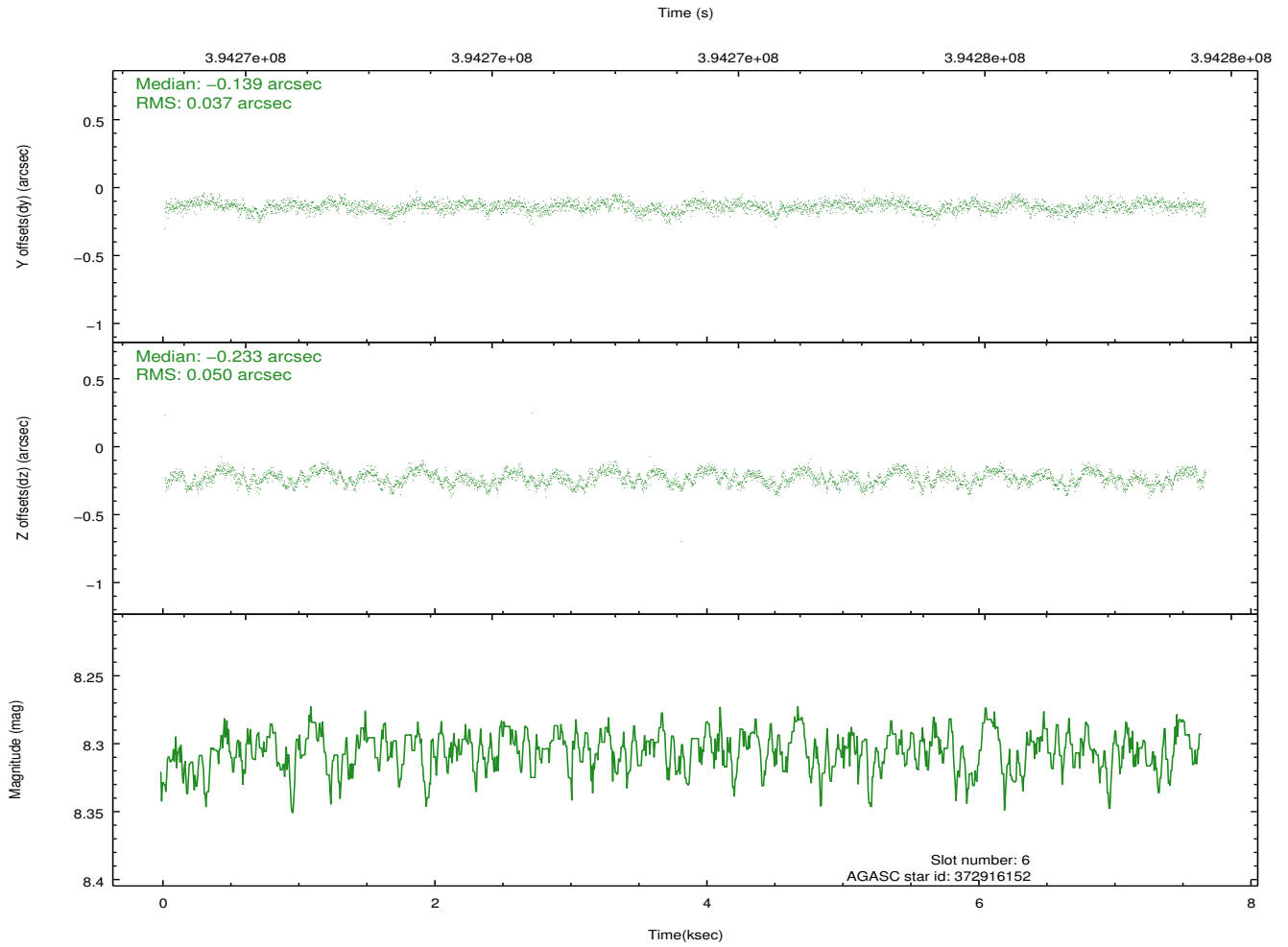
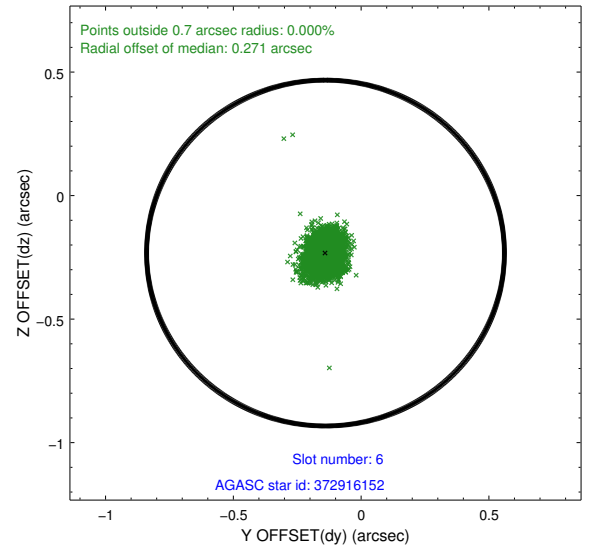
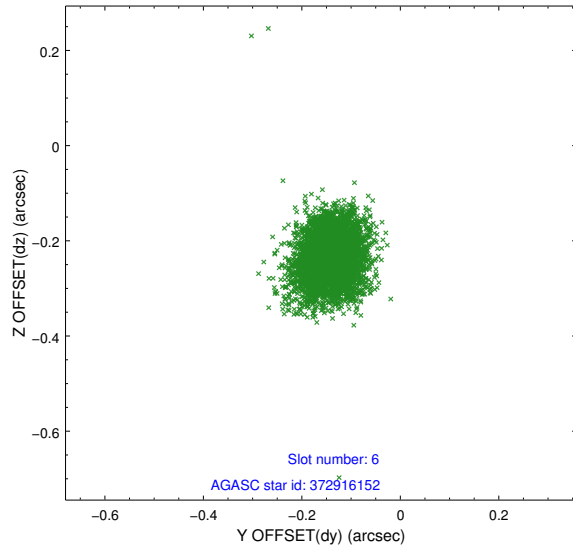
## 2.4.2 Slot 4



### 2.4.3 Slot 5

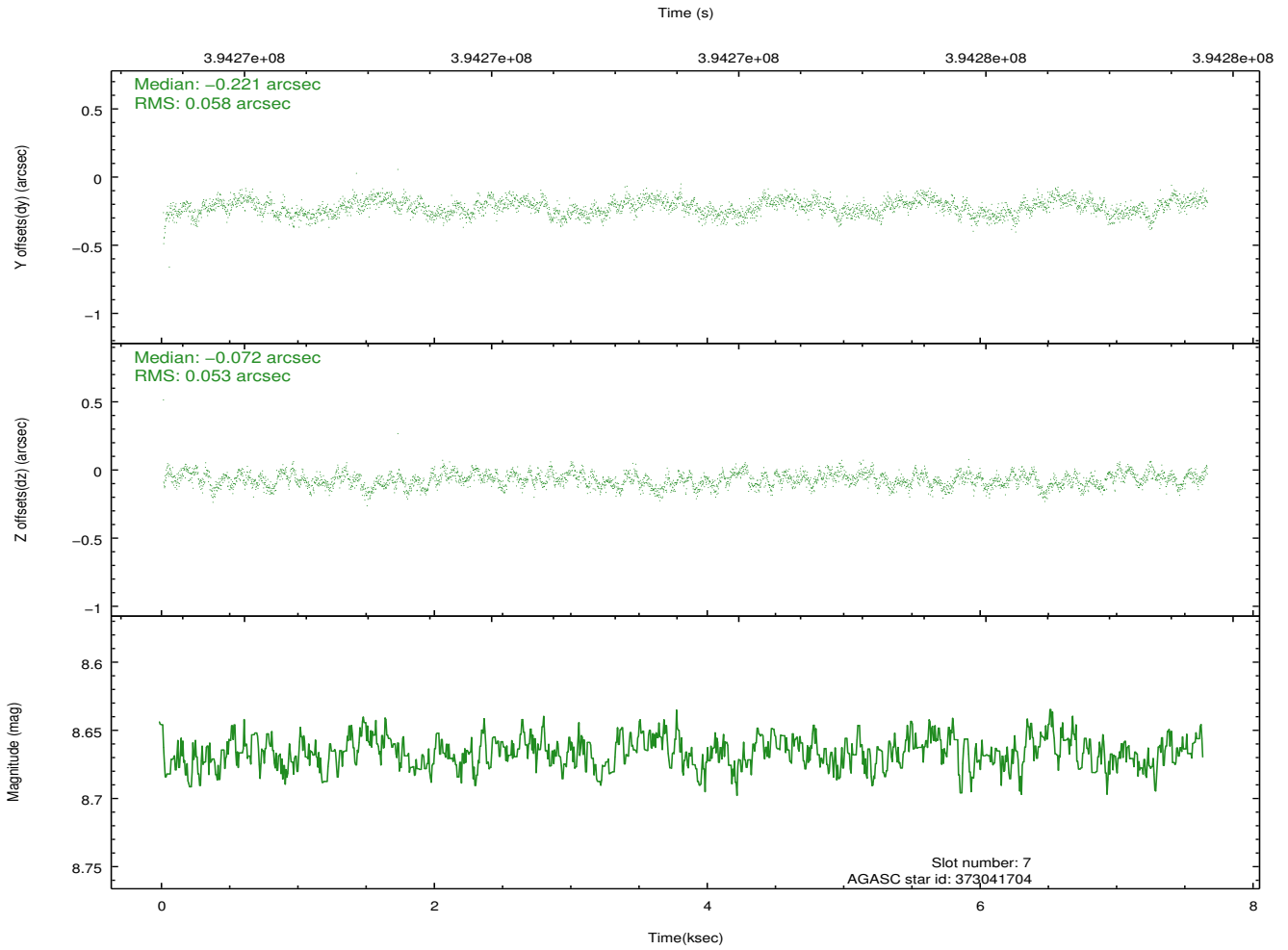
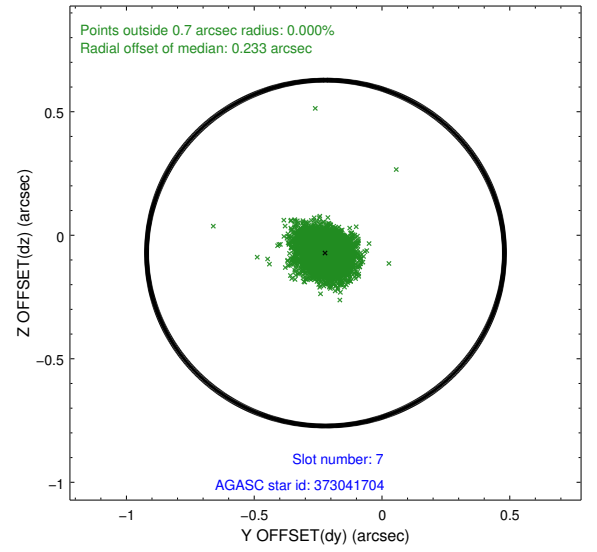
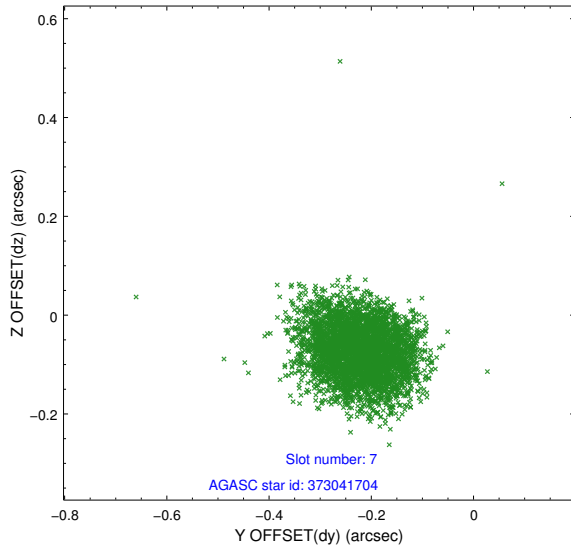


## 2.4.4 Slot 6



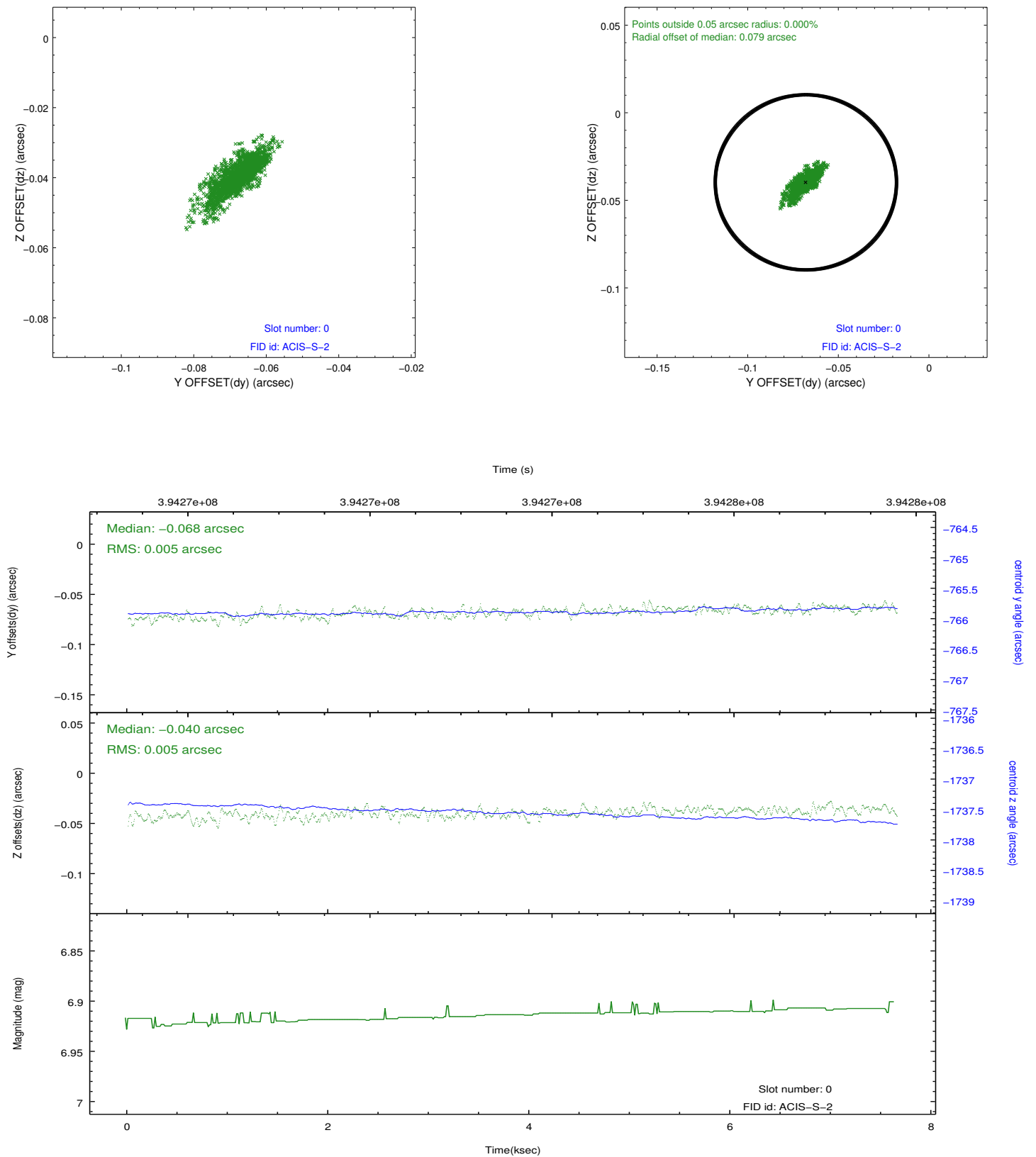


## 2.4.5 Slot 7

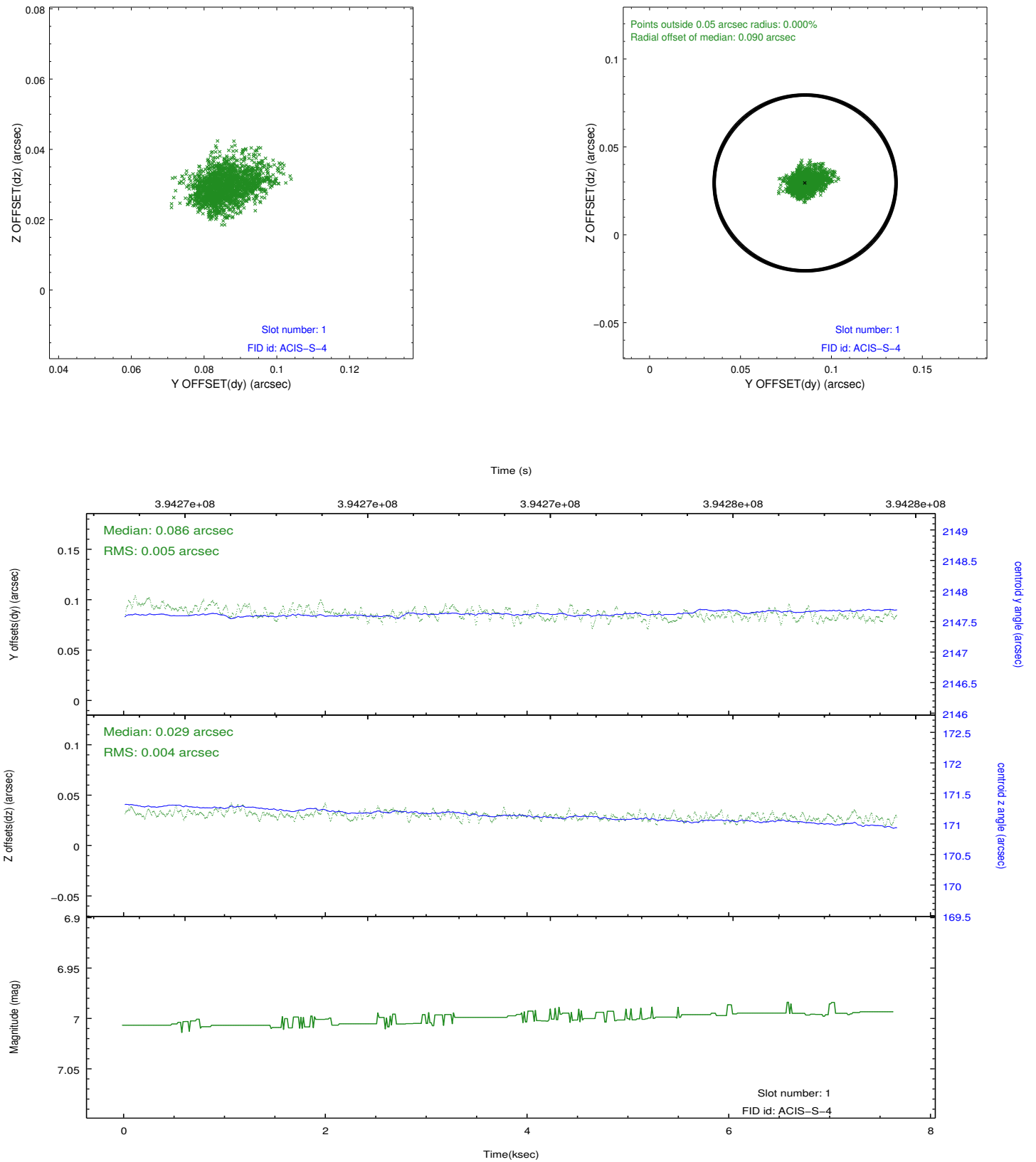


## 2.5 FID Slots

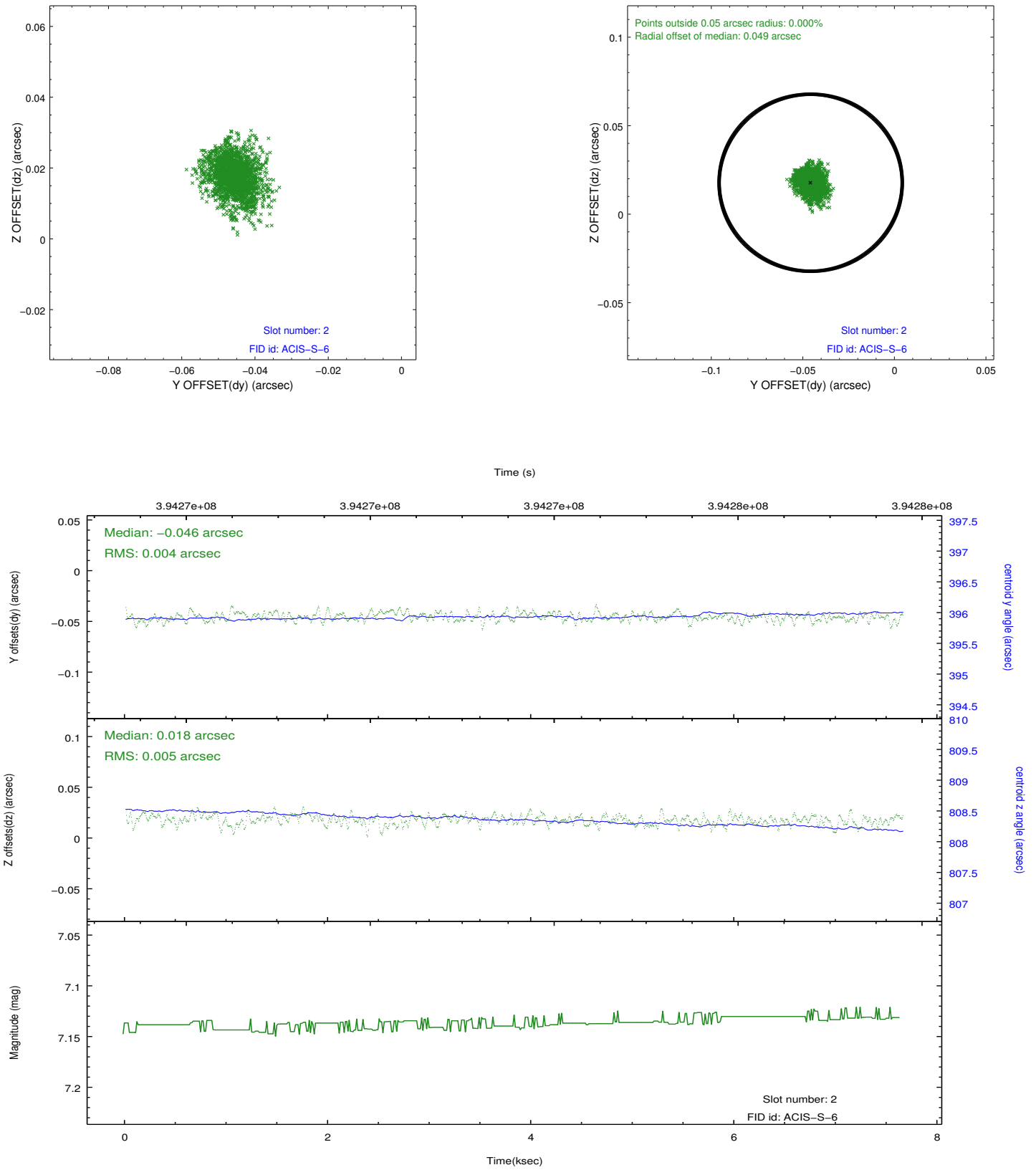
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5455999719501

### A.2 Comments