

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8145 - L2 Version 2  
Chandra X-Ray Center

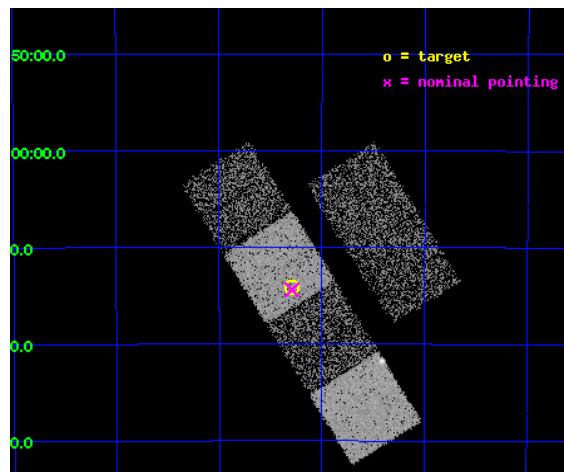
L2 Processing Date : May 3 2012

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# 1 Front

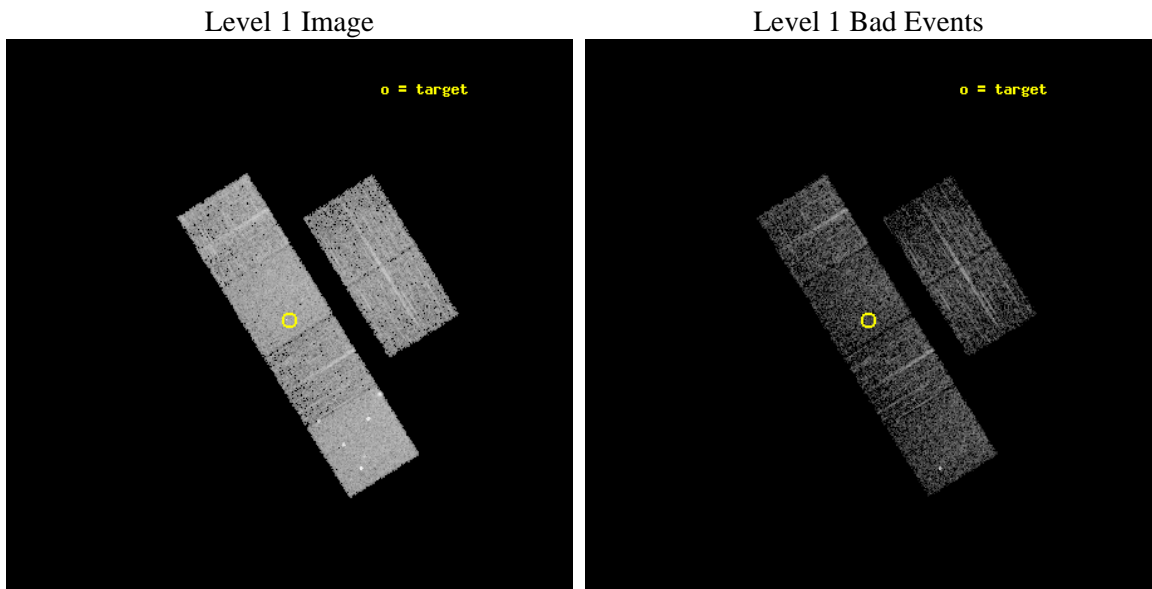
seq_num	900686	Sequence number
obs_id	8145	Observation id
title	ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J165217-4414	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	253.072917	Observer's specified target RA [deg]
dec_targ	-44.235	Observer's specified target Dec [deg]
ra_nom	253.07292793306	Nominal RA [deg]
dec_nom	-44.239956257369	Nominal Dec [deg]
roll_nom	238.156504995	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2230.3999917507	Sum of GTIs [s]
livetime	2202.1573240695	Livetime [s]
ontime2	2230.3999917507	Sum of GTIs [s]
ontime3	2230.3999917507	Sum of GTIs [s]
ontime5	2230.3999917507	Sum of GTIs [s]
ontime6	2230.3999917507	Sum of GTIs [s]
ontime7	2230.3999917507	Sum of GTIs [s]
ontime8	2230.3999917507	Sum of GTIs [s]
l2events	36568	Number of level 2 events



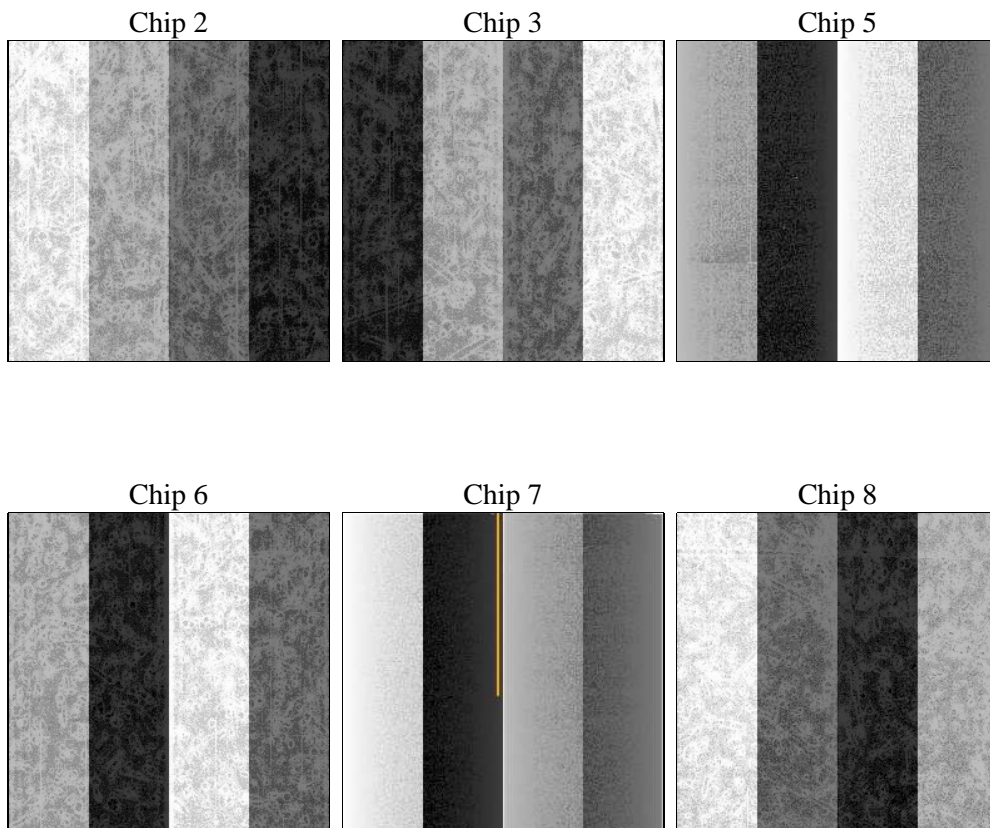
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2080.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2230.3999917507	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	2230.3999917507	Sum of GTIs [s]
date	2012-05-03T12:26:59	Date and time of file creation	ontime3	2230.3999917507	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2230.3999917507	Sum of GTIs [s]
			ontime6	2230.3999917507	Sum of GTIs [s]
			ontime7	2230.3999917507	Sum of GTIs [s]
			ontime8	2230.3999917507	Sum of GTIs [s]
			l1events	185524	Number of level 1 events

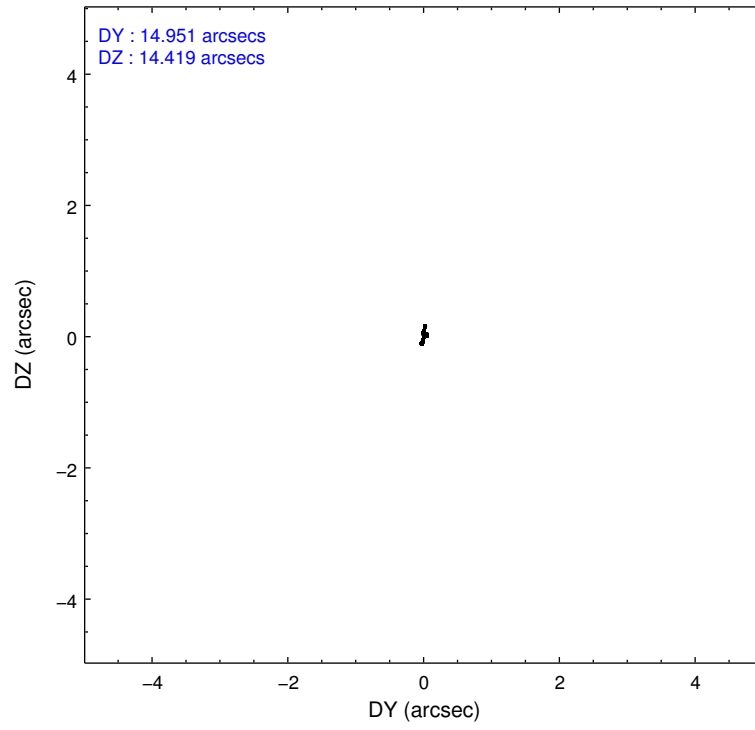
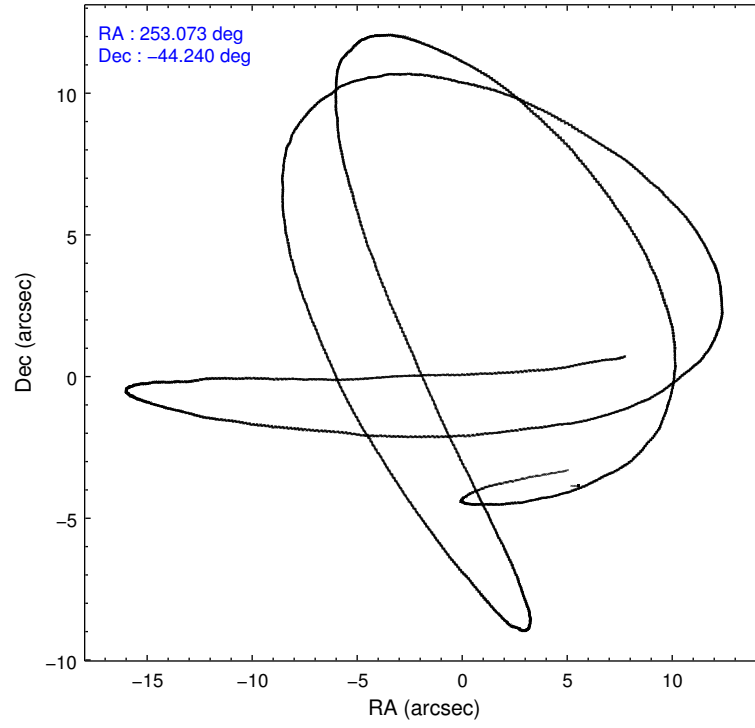
### 2.1.4 Events

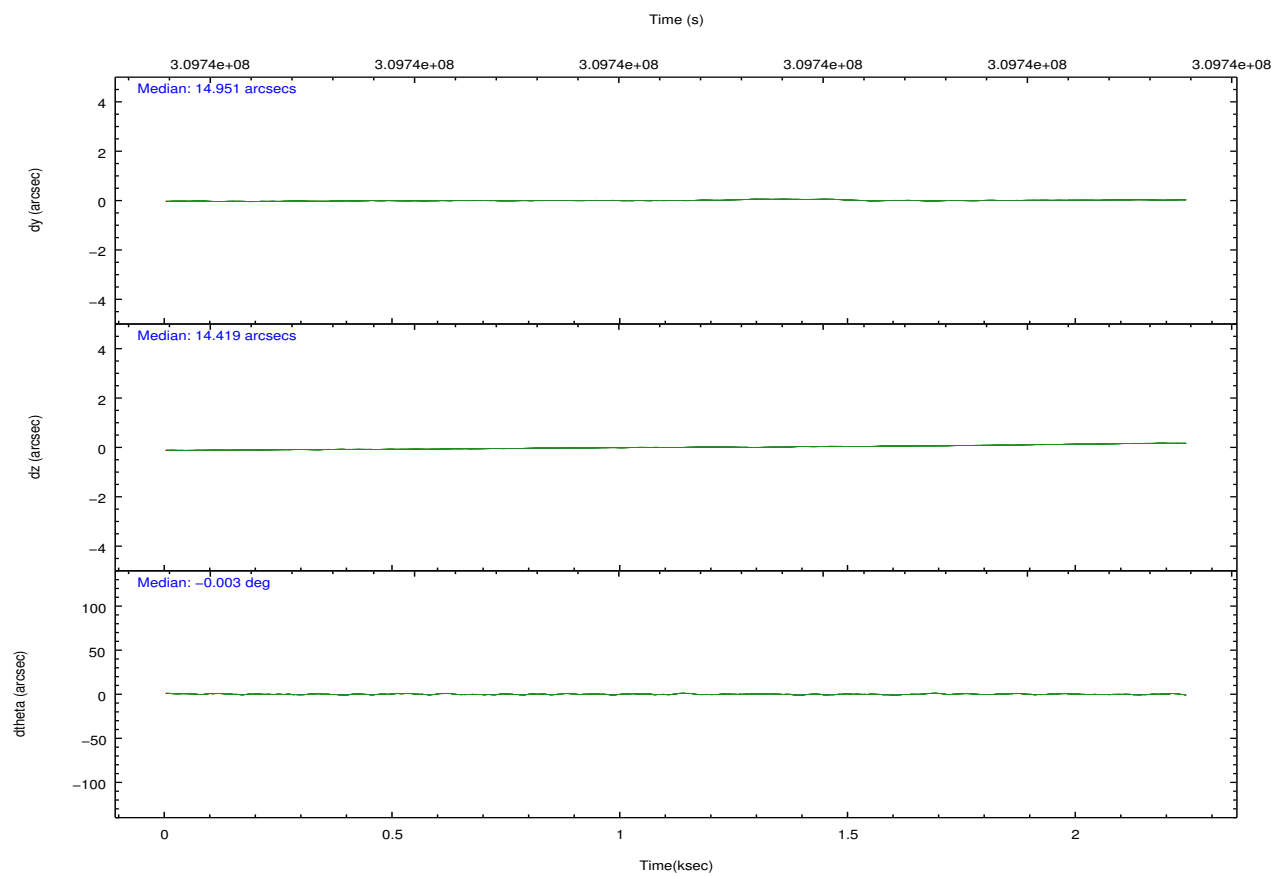
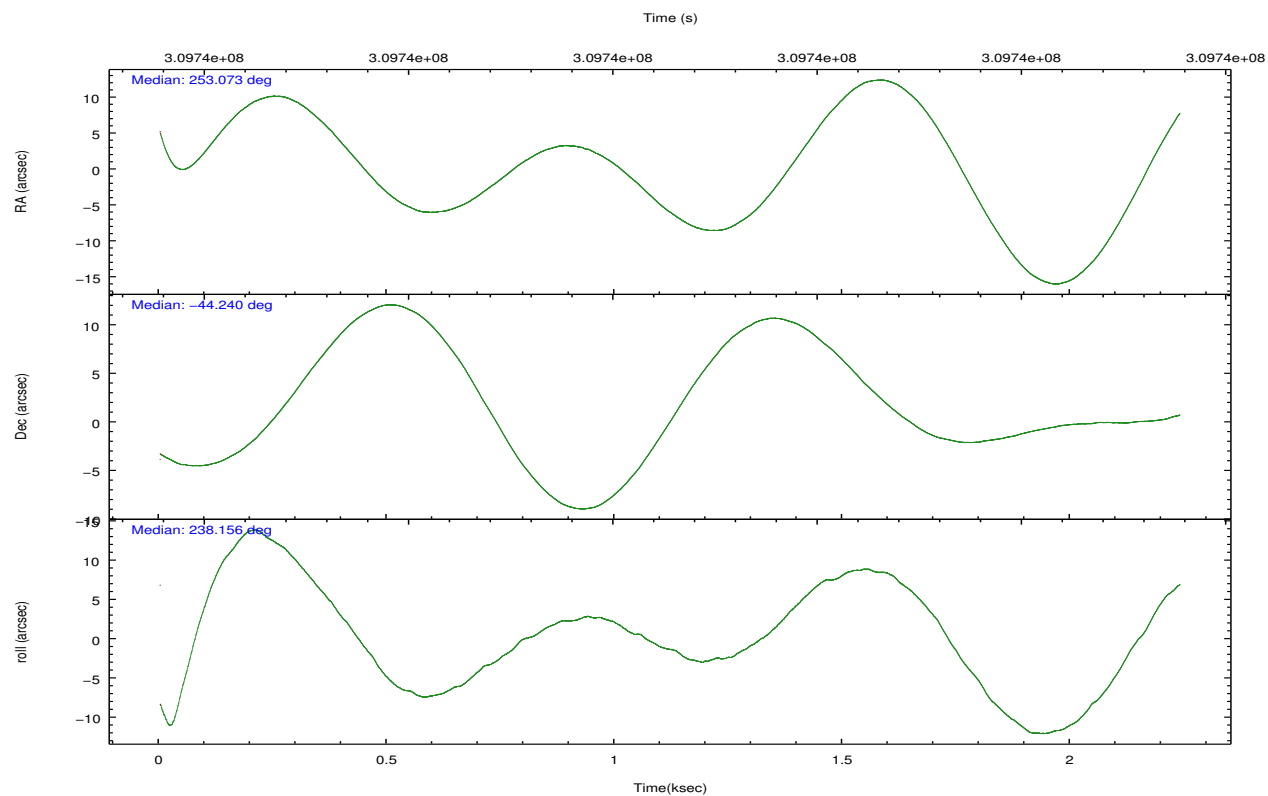
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25501	23236	41714	25681	35572	33820	grade 0 events	1389	1393	2903	1381	1323	2613
rejected events	22841	20587	24812	22932	23117	26975		5%	5%	6%	5%	3%	7%
rejected %	89%	88%	59%	89%	64%	79%	grade 1 events	21	11	332	21	51	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	737	628	6049	729	3142	1782
								2%	2%	14%	2%	8%	5%
							grade 3 events	248	292	712	304	1185	859
								0%	1%	1%	1%	3%	2%
							grade 4 events	282	294	677	273	1262	752
								1%	1%	1%	1%	3%	2%
							grade 5 events	999	1143	2847	1219	3250	1648
								3%	4%	6%	4%	9%	4%
							grade 6 events	551	569	9810	645	8109	2168
								2%	2%	23%	2%	22%	6%
							grade 7 events	21274	18906	18384	21109	17250	23975
								83%	81%	44%	82%	48%	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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	253.073603	253.0729279330564	CCD I2 on	O2	Y
[deg] Pointing Dec	-44.212507	-44.2399562573694	CCD I3 on	O3	Y
[deg] Pointing Roll	238.000481	238.1565049950047	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)	309739683.184000	309738391.29792	CCD S5 on	N	N
Observation start date	2007-10-25T22:46:58	2007-10-25T22:26:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	309741763.184000	309742051.57309	On-chip summing requested	N	N
Observation end date	2007-10-25T23:21:38	2007-10-25T23:27:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





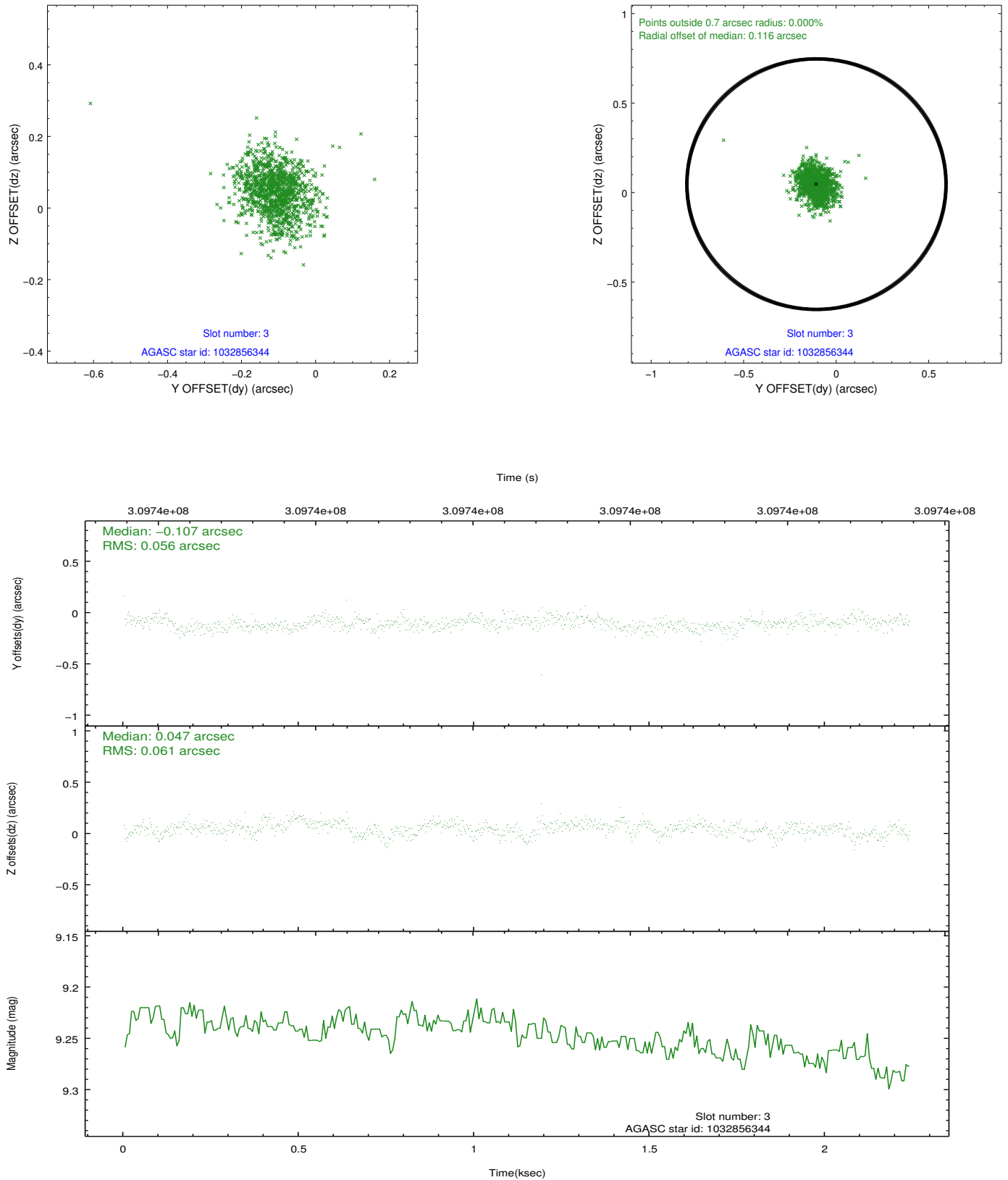
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	547	0.041	0.016	0.008	0.014	0.000000	0.000000	928.08	-1731.39
1	FID	ACIS-S-2	7.09	547	-0.160	-0.076	0.007	0.012	0.000000	0.000000	-766.42	-1738.96
2	FID	ACIS-S-4	7.19	547	0.093	0.065	0.006	0.010	0.000000	0.000000	2144.12	169.75
3	GUIDE	1032856344	9.25	1093	-0.107	0.047	0.086	0.140	253.308302	-43.749430	-1736.39	-365.34
4	GUIDE	1032867928	8.34	1092	-0.152	-0.114	0.067	0.107	253.057857	-43.542782	-2024.31	-1313.11
5	GUIDE	1032868824	9.17	1091	0.039	-0.068	0.108	0.194	252.602108	-44.023242	70.62	-1395.25
6	GUIDE	1032873592	9.11	1093	0.155	0.127	0.105	0.166	252.929000	-43.405456	-2262.85	-1861.44
7	GUIDE	1032878440	9.19	1090	0.062	0.028	0.092	0.153	252.803177	-44.838877	2277.24	608.45

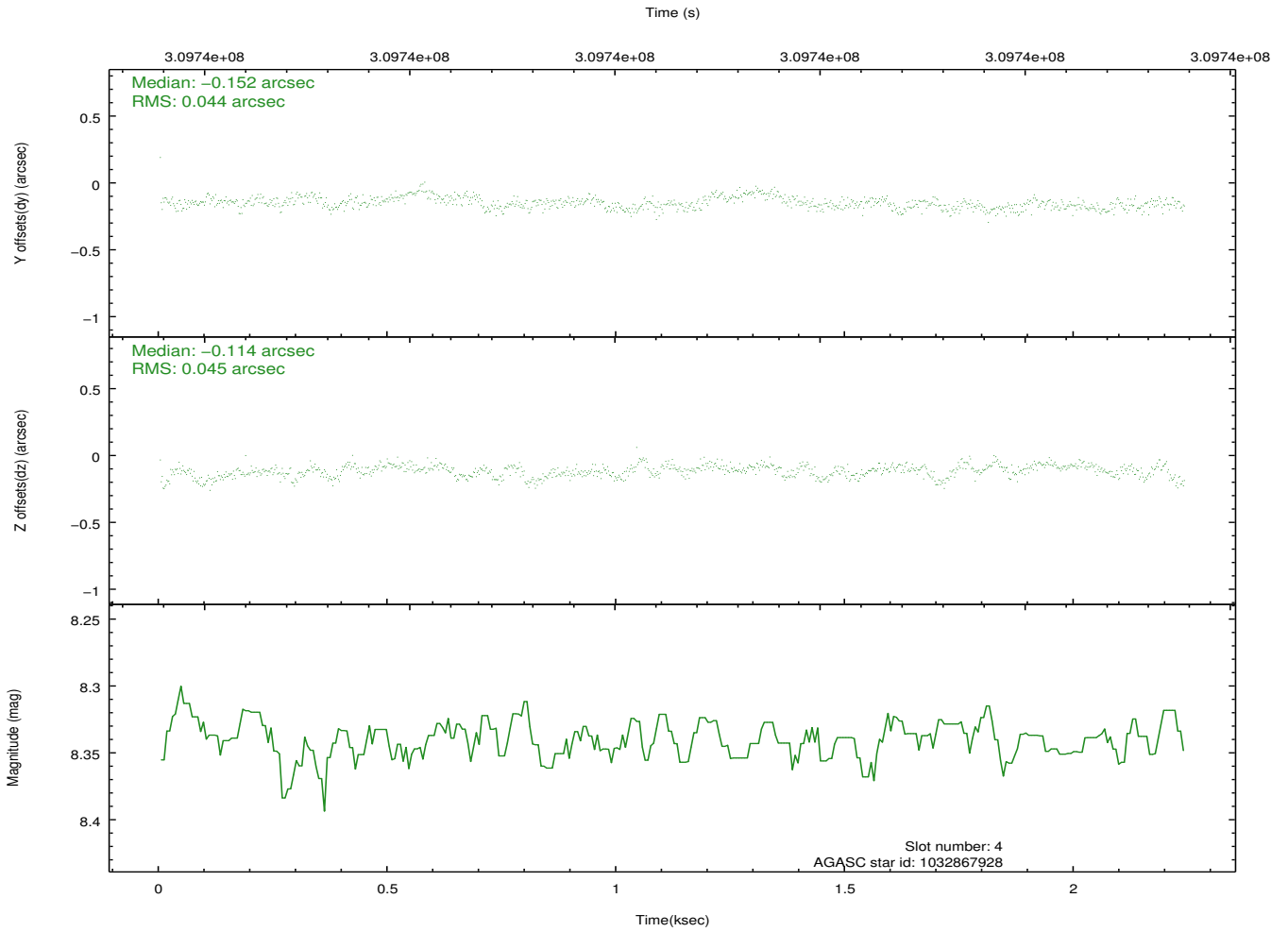
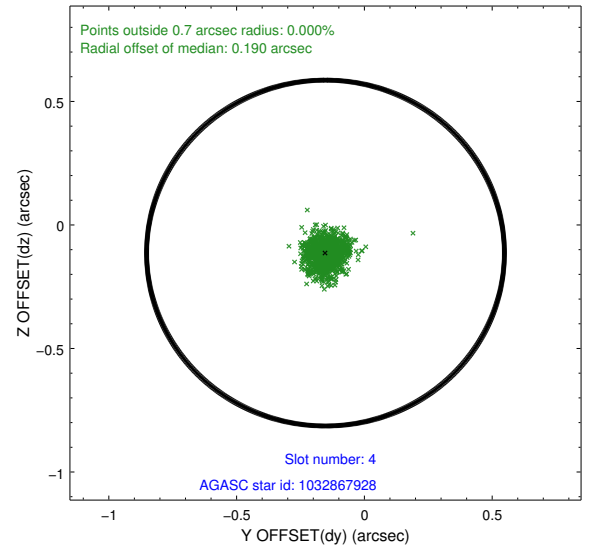
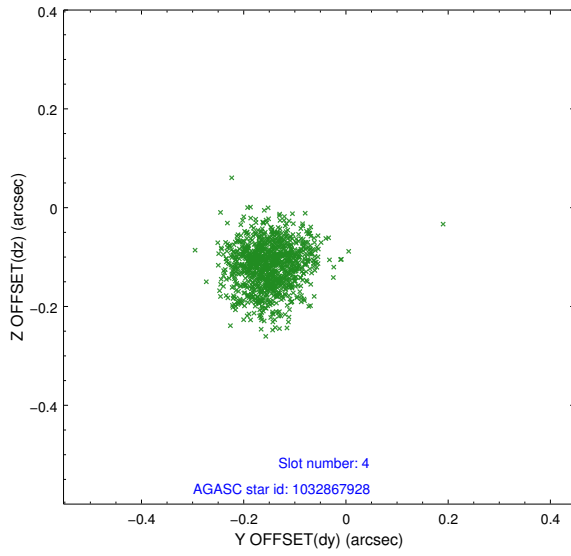


## 2.4 Star Slots

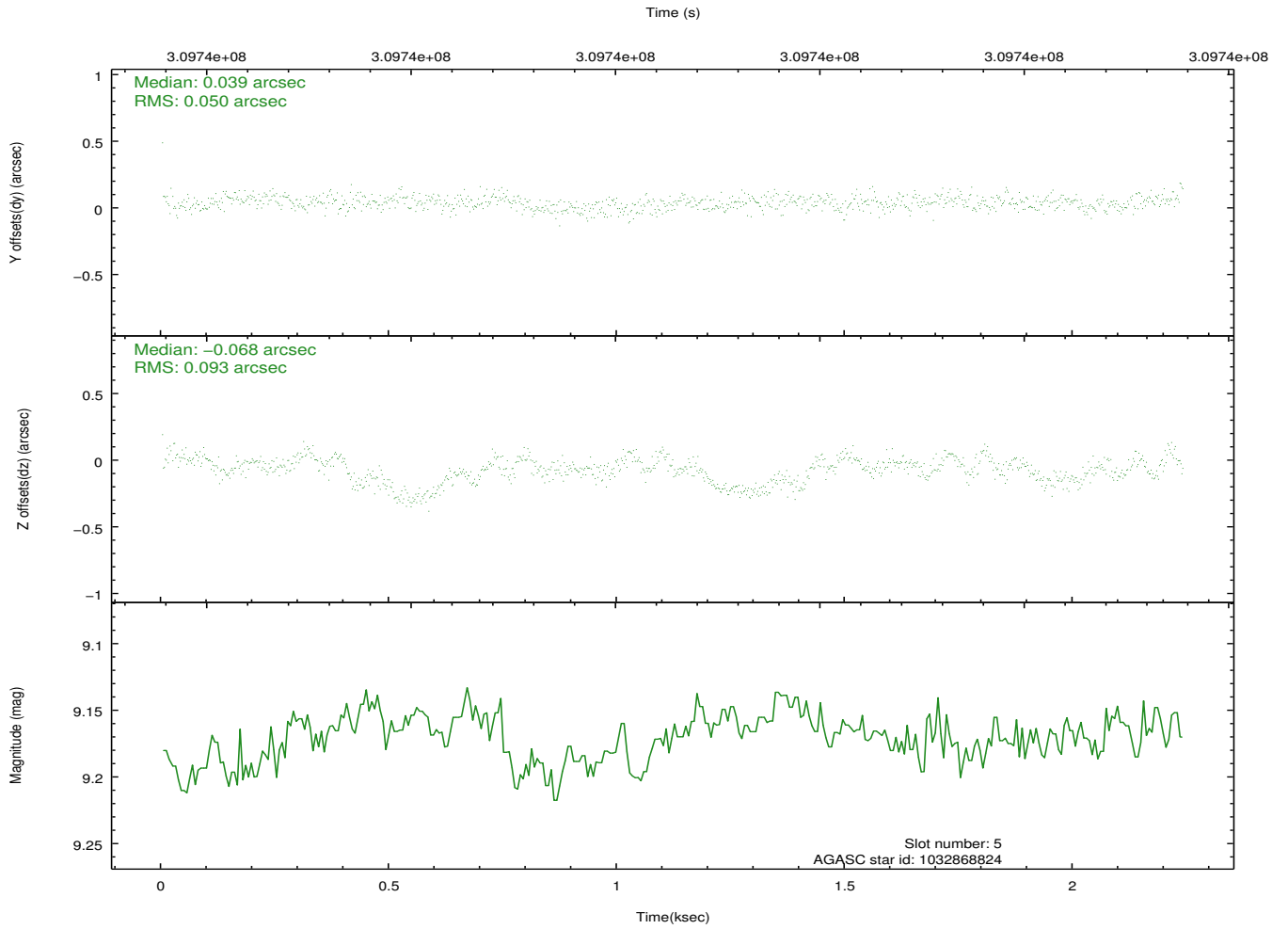
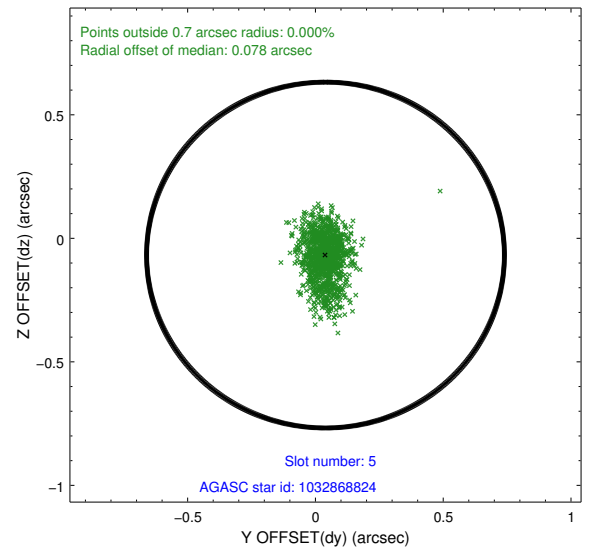
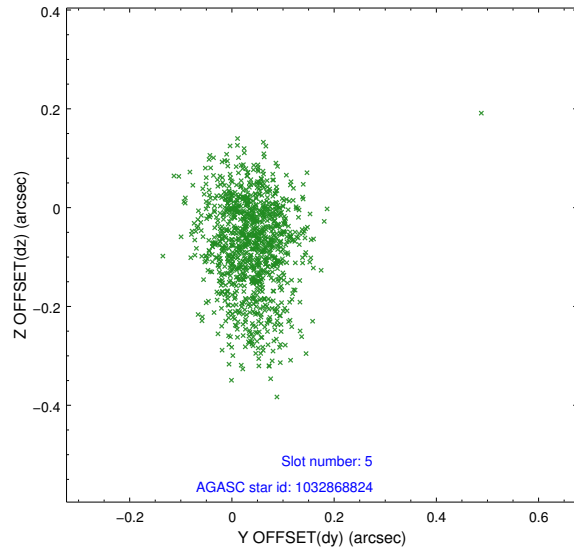
### 2.4.1 Slot 3



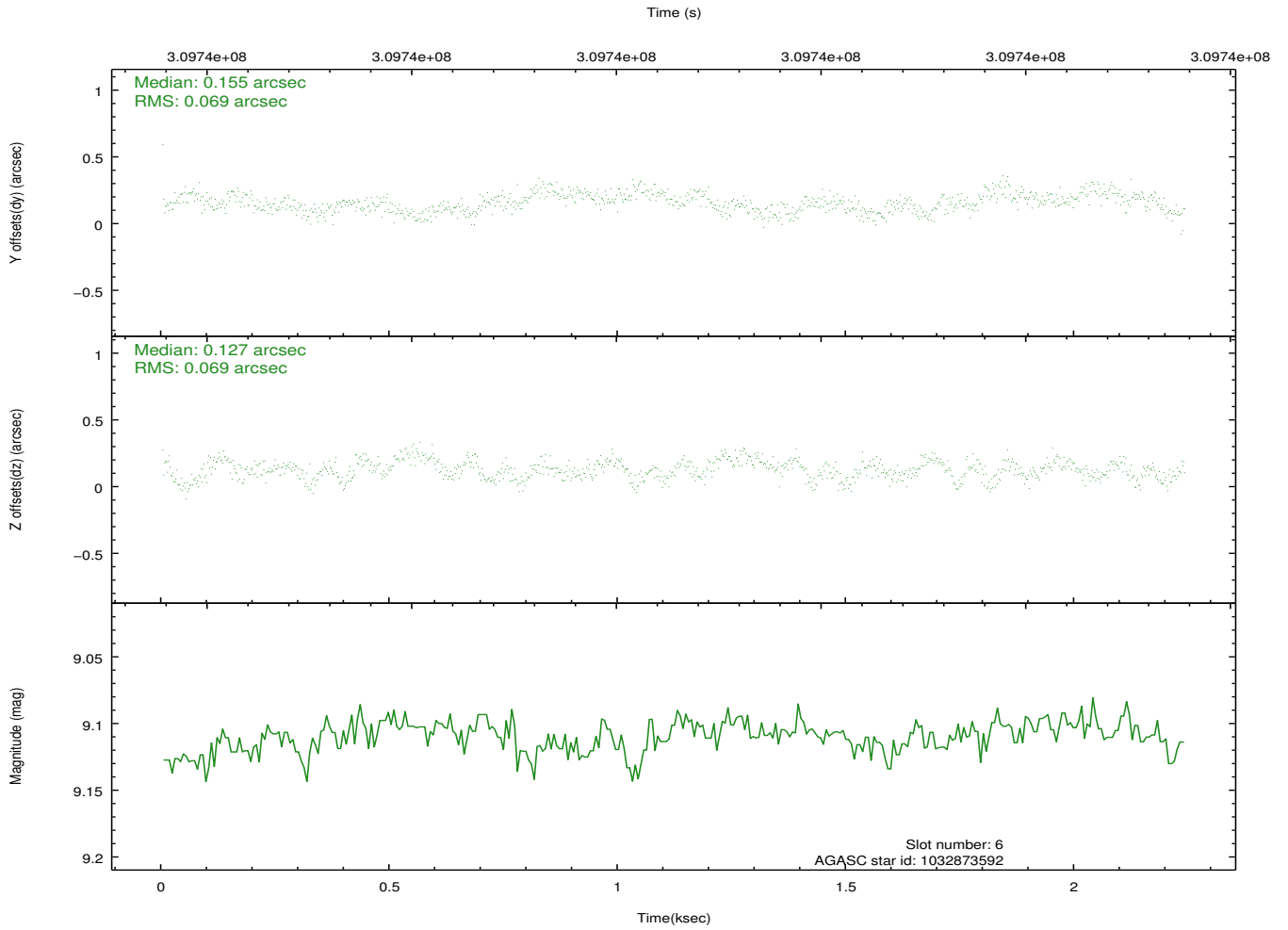
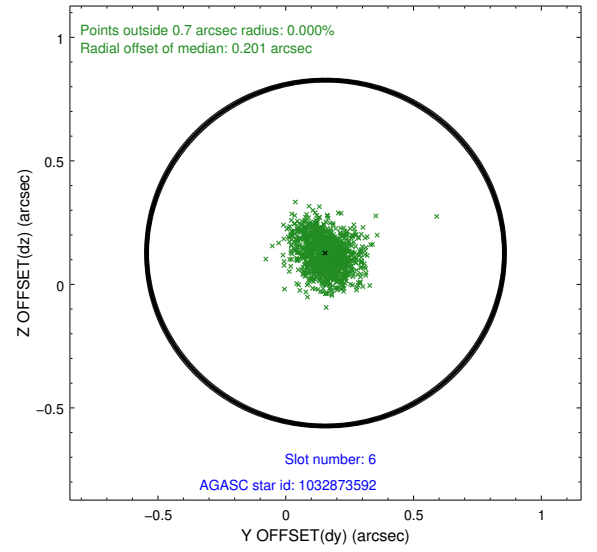
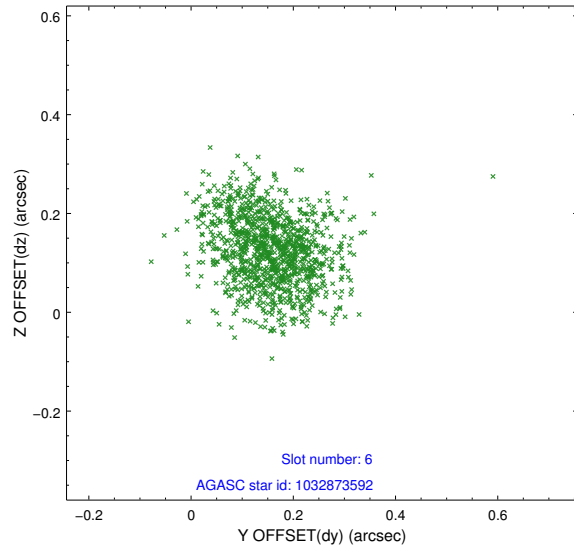
## 2.4.2 Slot 4



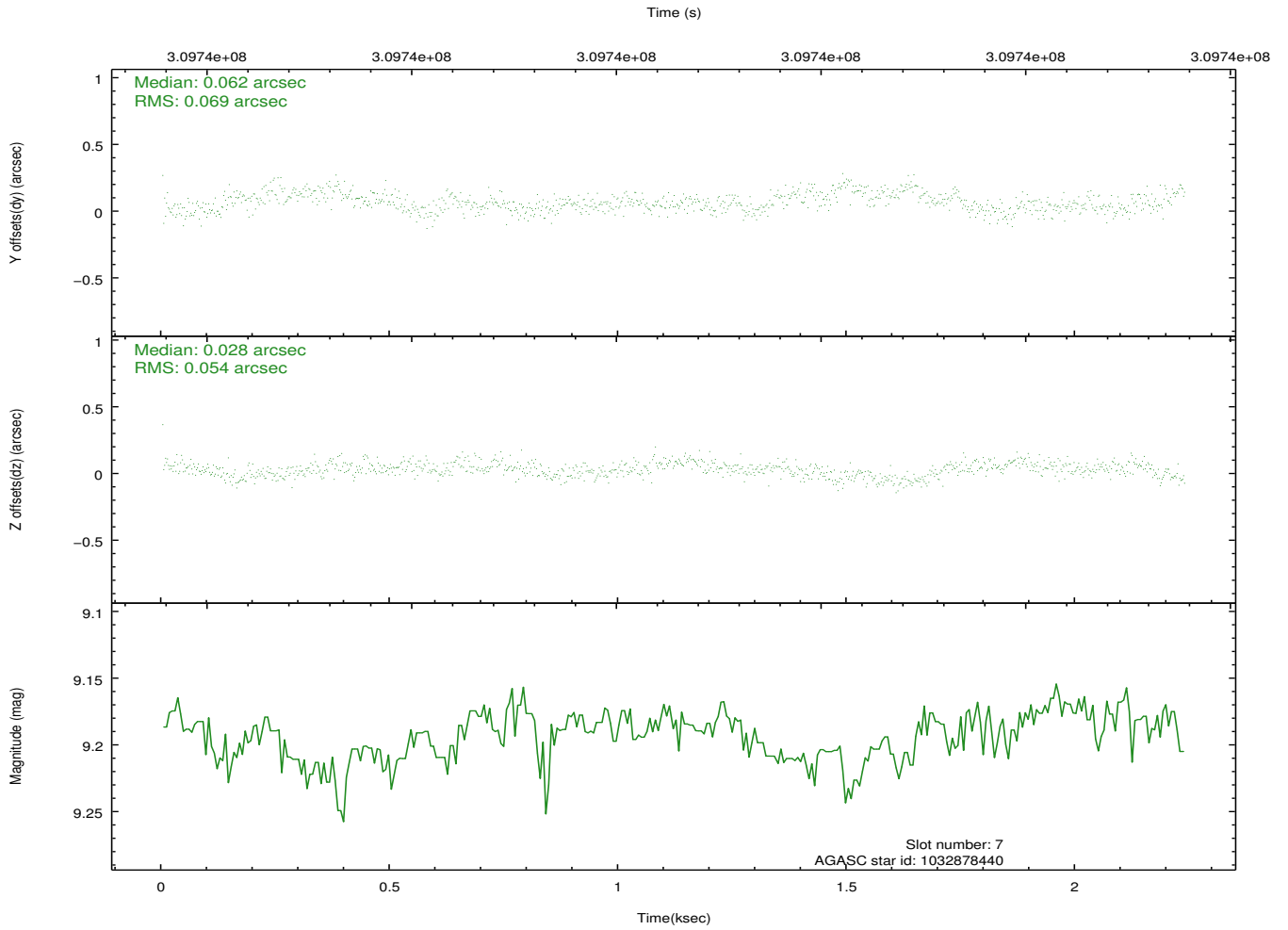
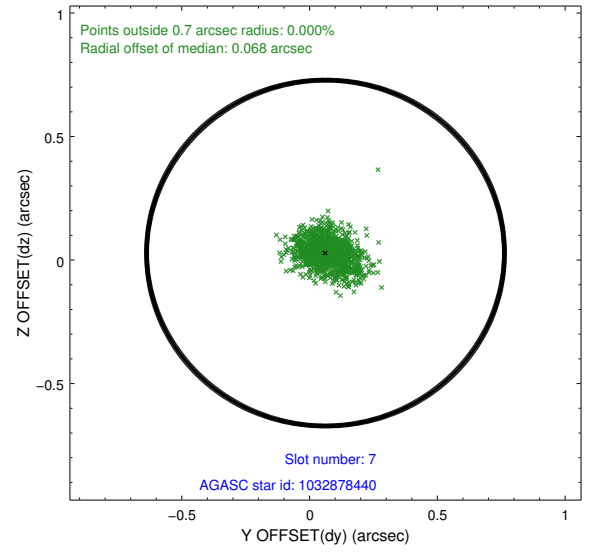
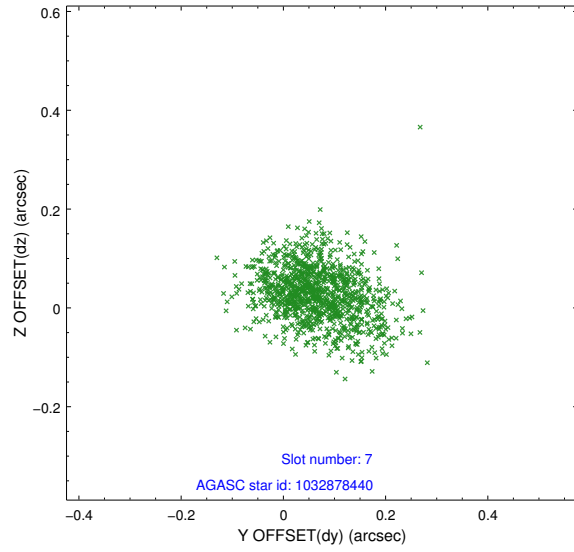
### 2.4.3 Slot 5



## 2.4.4 Slot 6

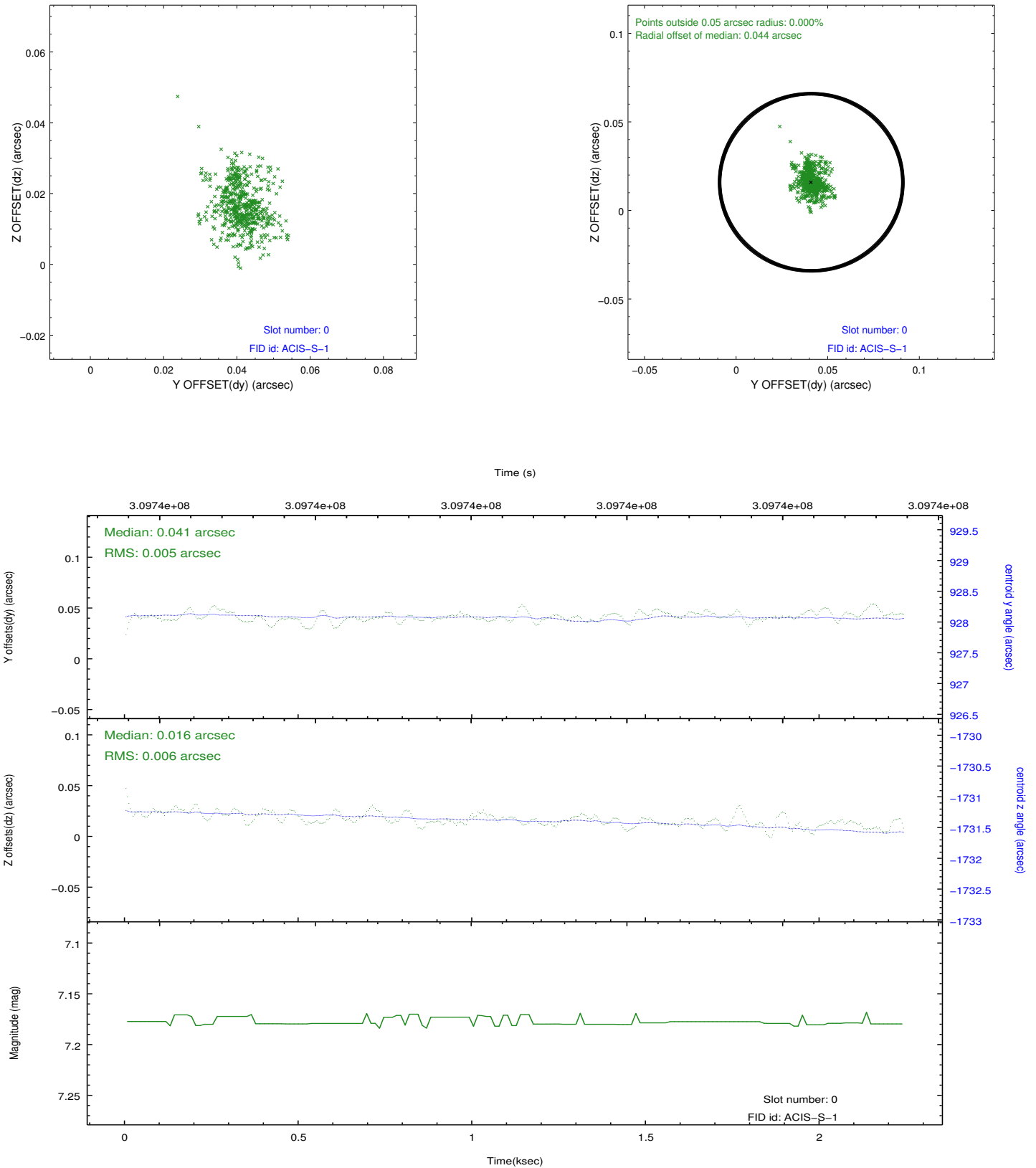


## 2.4.5 Slot 7

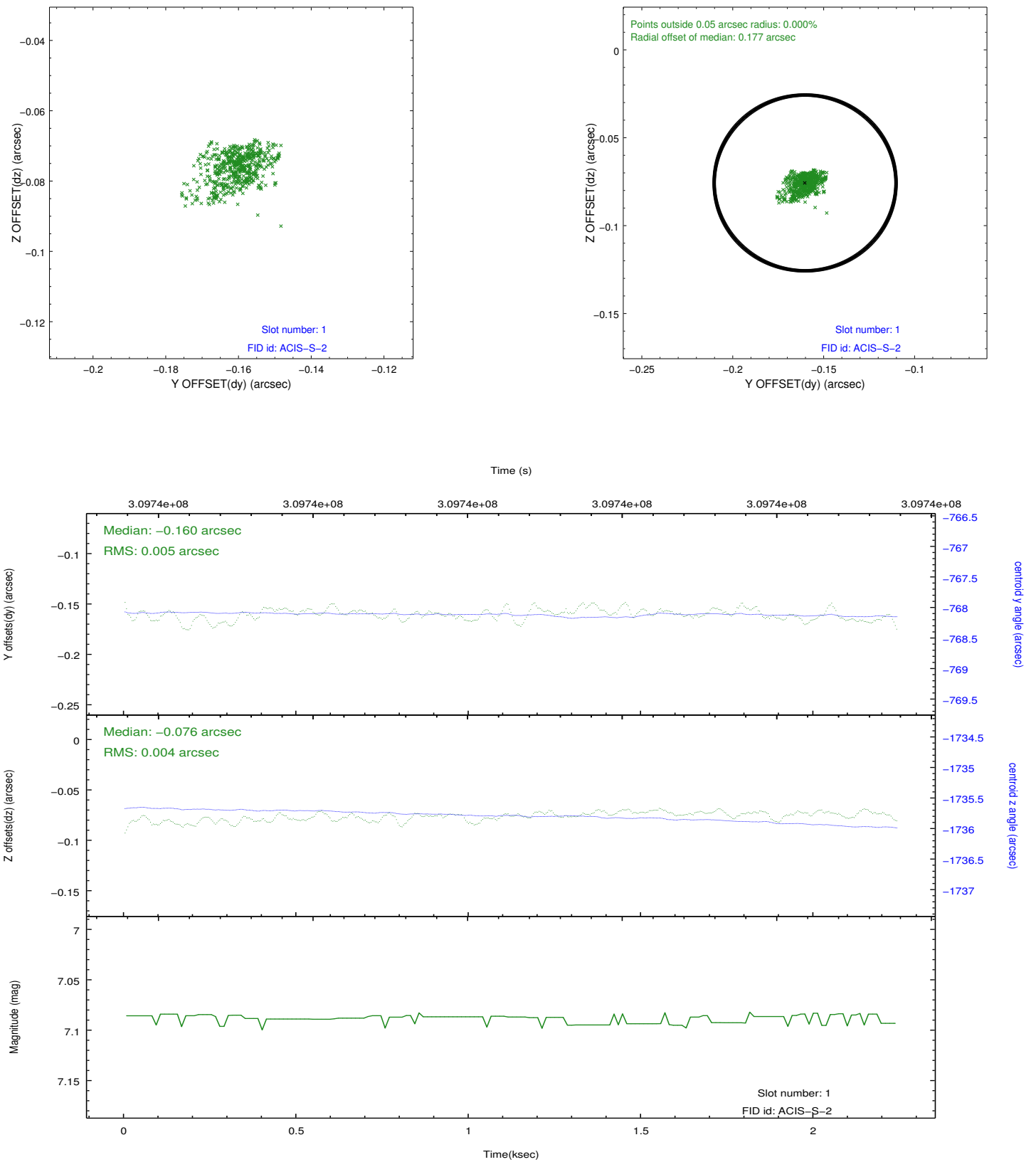


## 2.5 FID Slots

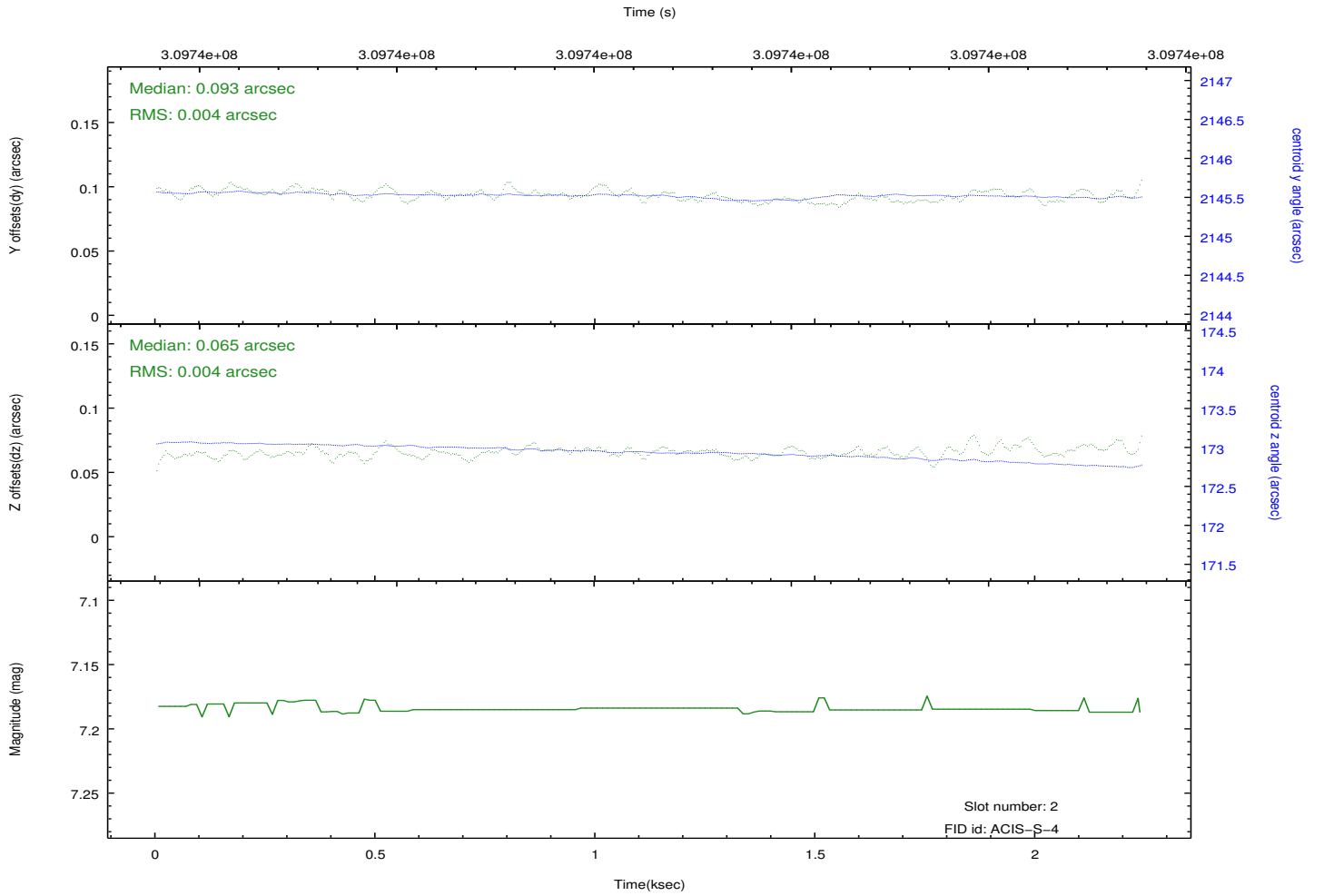
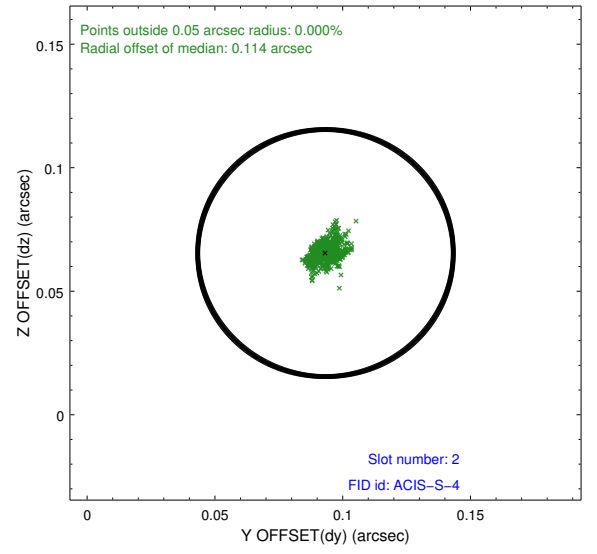
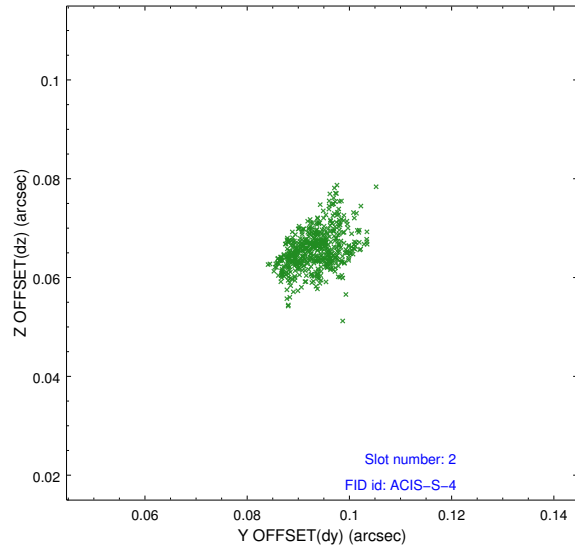
### 2.5.1 Slot 0



## 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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.23039999

### A.2 Comments