

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 17760 - L2 Version 1  
Chandra X-Ray Center

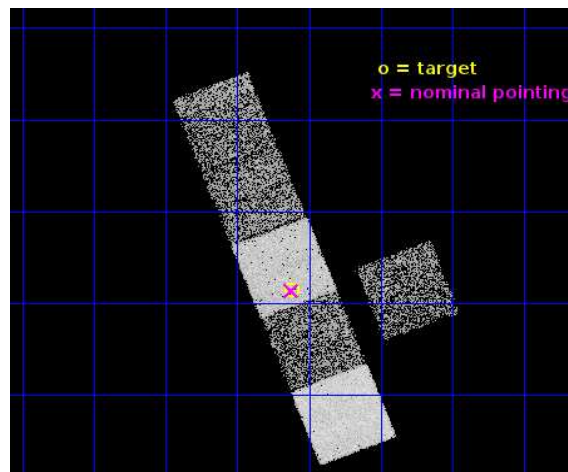
L2 Processing Date : Apr 27 2016

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# 1 Front

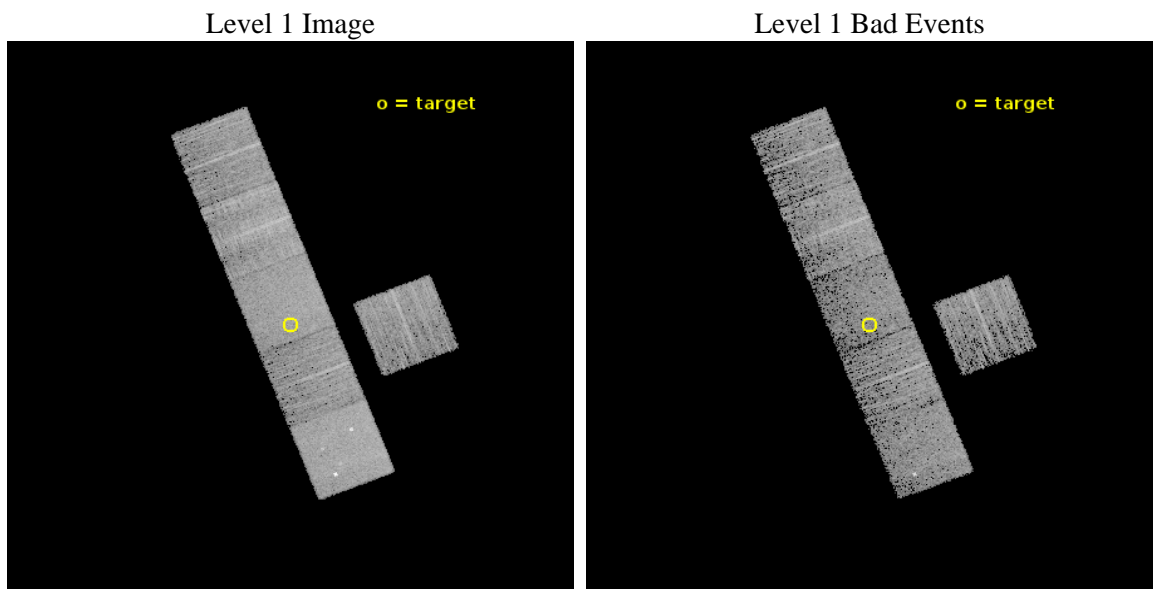
seq_num	201069	Sequence number
obs_id	17760	Observation id
title	Understanding the Rotation/Activity Relation: A New Low-Mass, Extreme-Spin Sample	Proposal title
observer	Peter Williams	Principal investigator
object	2MASS J11280702+0141304	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.02875	Observer's specified target RA [deg]
dec_targ	1.691694	Observer's specified target Dec [deg]
ra_nom	172.03089021037	Nominal RA [deg]
dec_nom	1.6899374337798	Nominal Dec [deg]
roll_nom	248.57992436029	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5653.4891858101	Sum of GTIs [s]
livetime	5581.9013016169	Livetime [s]
ontime2	5653.3250257969	Sum of GTIs [s]
ontime5	5653.4481457472	Sum of GTIs [s]
ontime6	5653.4071058035	Sum of GTIs [s]
ontime7	5653.4891858101	Sum of GTIs [s]
ontime8	5650.1250854731	Sum of GTIs [s]
ontime9	5653.5302257538	Sum of GTIs [s]
l2events	58463	Number of level 2 events



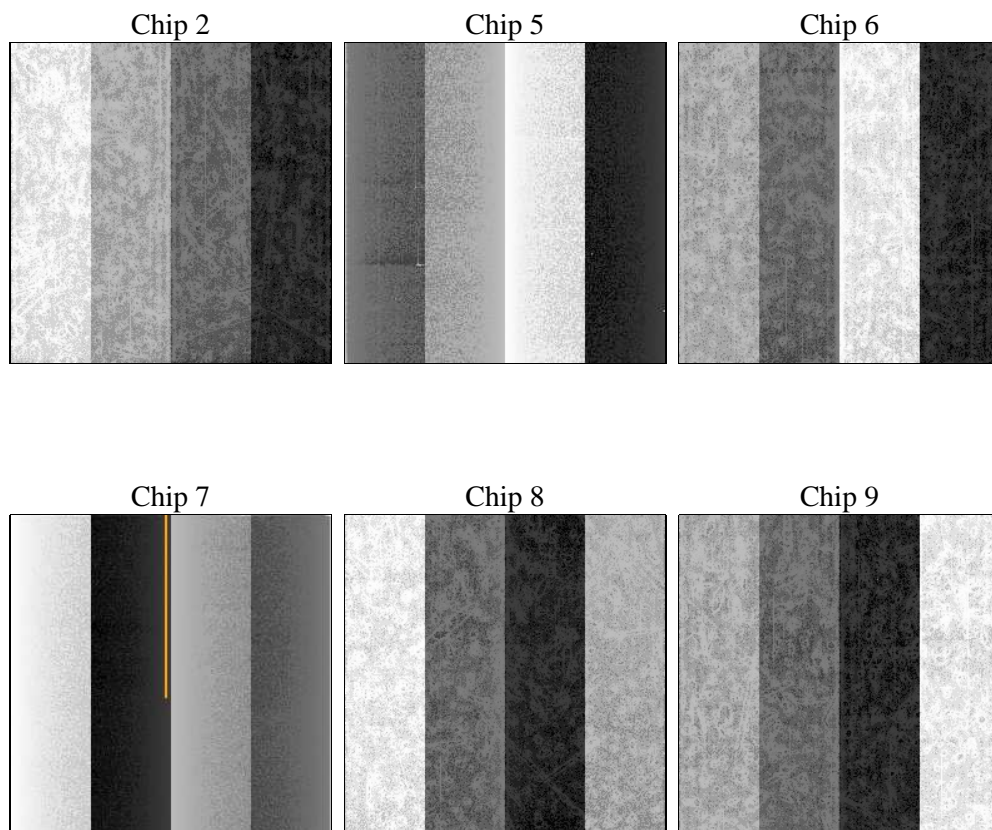
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5900.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	5653.4891858101	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime2	5653.3250257969	Sum of GTIs [s]
date	2016-04-27T20:53:54	Date and time of file creation	ontime5	5653.4481457472	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5653.4071058035	Sum of GTIs [s]
			ontime7	5653.4891858101	Sum of GTIs [s]
			ontime8	5650.1250854731	Sum of GTIs [s]
			ontime9	5653.5302257538	Sum of GTIs [s]
			l1events	252160	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	33555	56716	33778	44456	48856	34799	grade 0 events	1313	2675	1331	1698	3394	1477
rejected events	29769	28872	29861	24932	36874	30554		3%	4%	3%	3%	6%	4%
rejected %	88%	50%	88%	56%	75%	87%	grade 1 events	18	122	20	45	46	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	948	9044	933	4059	2936	980
								2%	15%	2%	9%	6%	2%
							grade 3 events	387	860	348	1585	1187	434
								1%	1%	1%	3%	2%	1%
							grade 4 events	376	849	366	1624	1160	402
								1%	1%	1%	3%	2%	1%
							grade 5 events	1448	4044	1644	4521	2336	1931
								4%	7%	4%	10%	4%	5%
							grade 6 events	763	14448	942	10581	3309	955
								2%	25%	2%	23%	6%	2%
							grade 7 events	28302	24674	28194	20343	34488	28590
								84%	43%	83%	45%	70%	82%

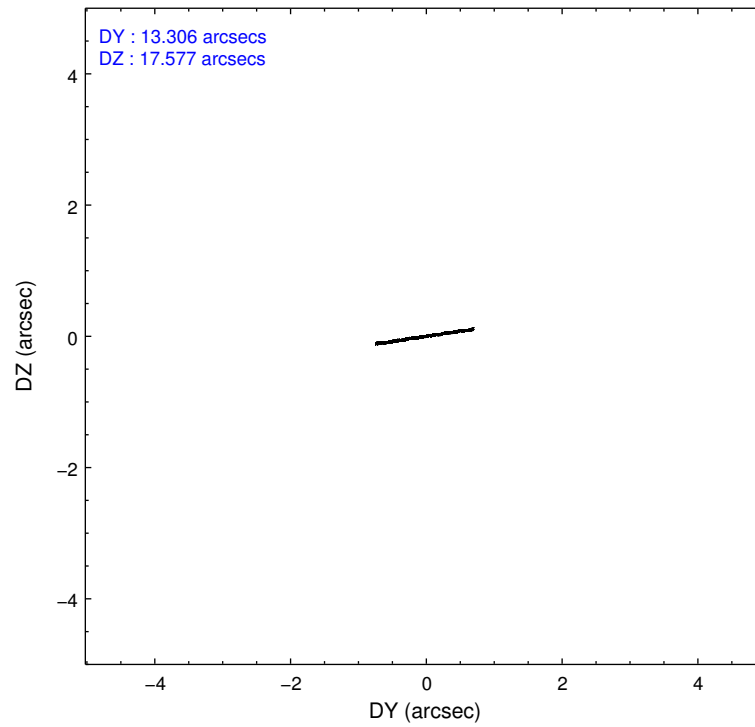
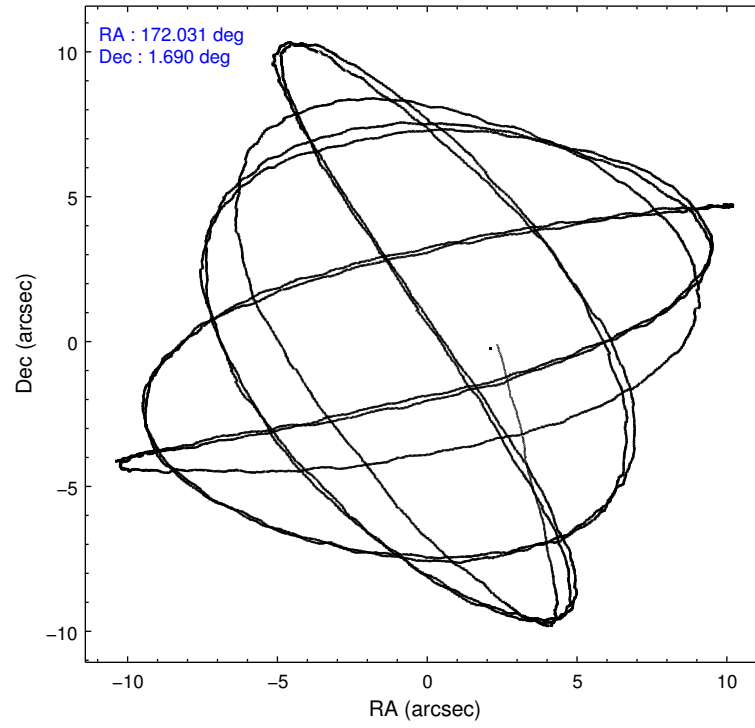


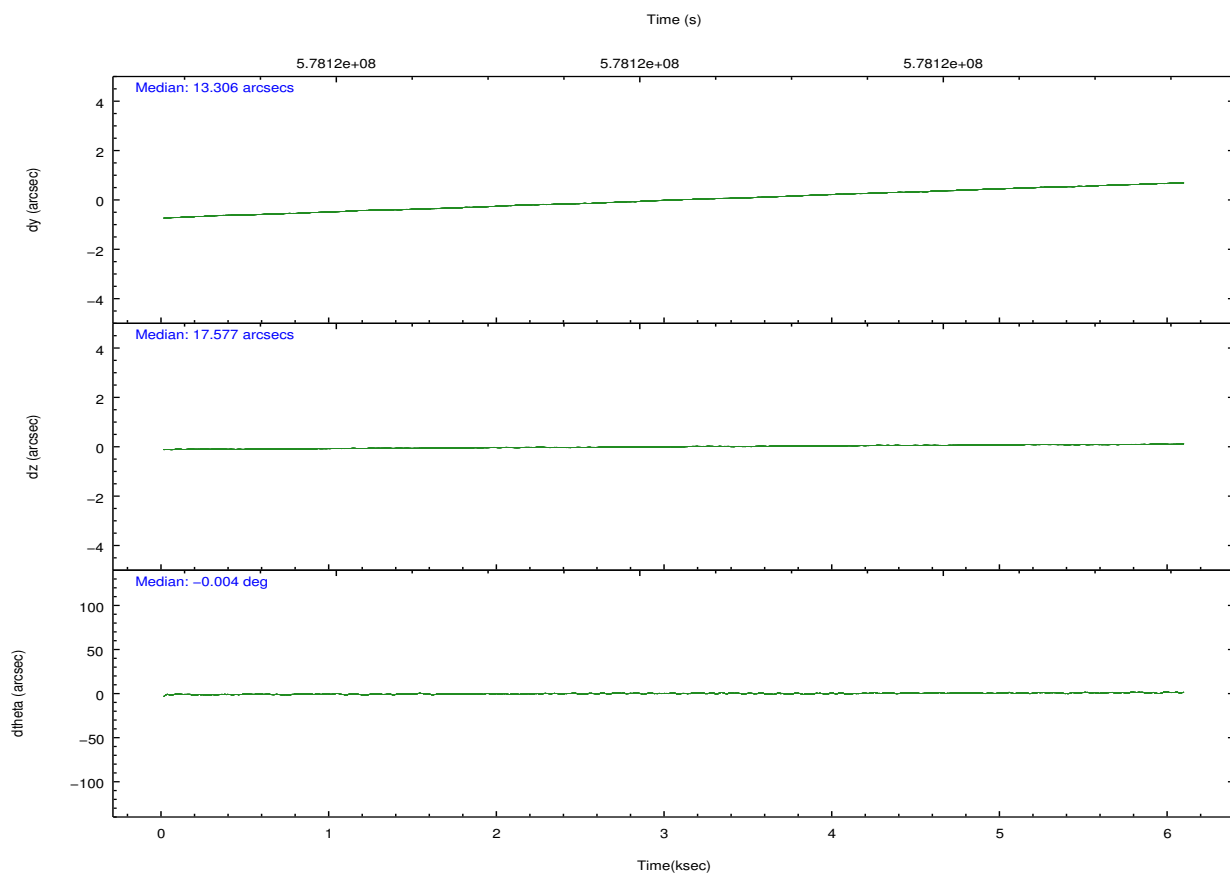
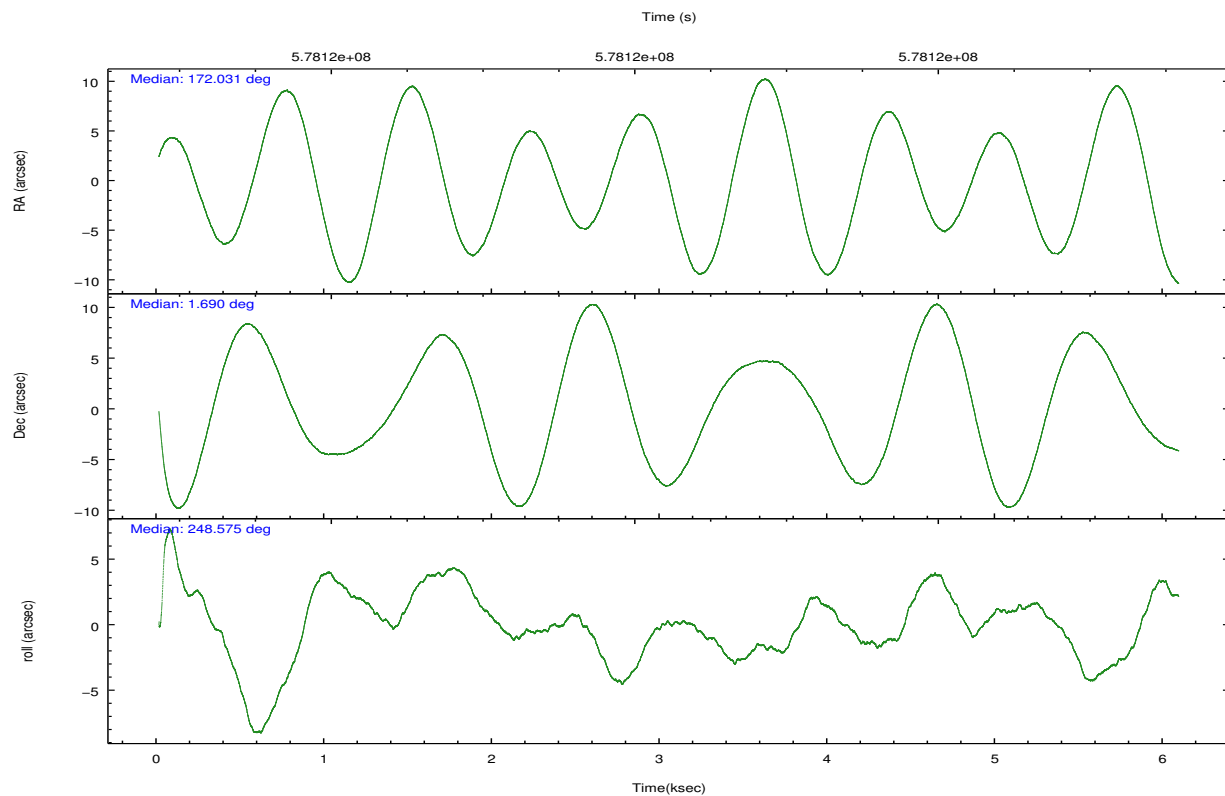
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-256789	ACIS-256789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	172.026407	172.0308902103732
[deg] Pointing Dec	1.717050	1.689937433779776
[deg] Pointing Roll	248.423452	248.5799243602867
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	578117383.184000	578116641.5020601
Observation start date	2016-04-27T04:08:35	2016-04-27T03:57:21
[s] Observation end time (MET)	578123283.184000	578123781.65247
Observation end date	2016-04-27T05:46:55	2016-04-27T05:56:21
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O3	Y
CCD S2 on	O5	Y
CCD S3 on	Y	Y
CCD S4 on	O4	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



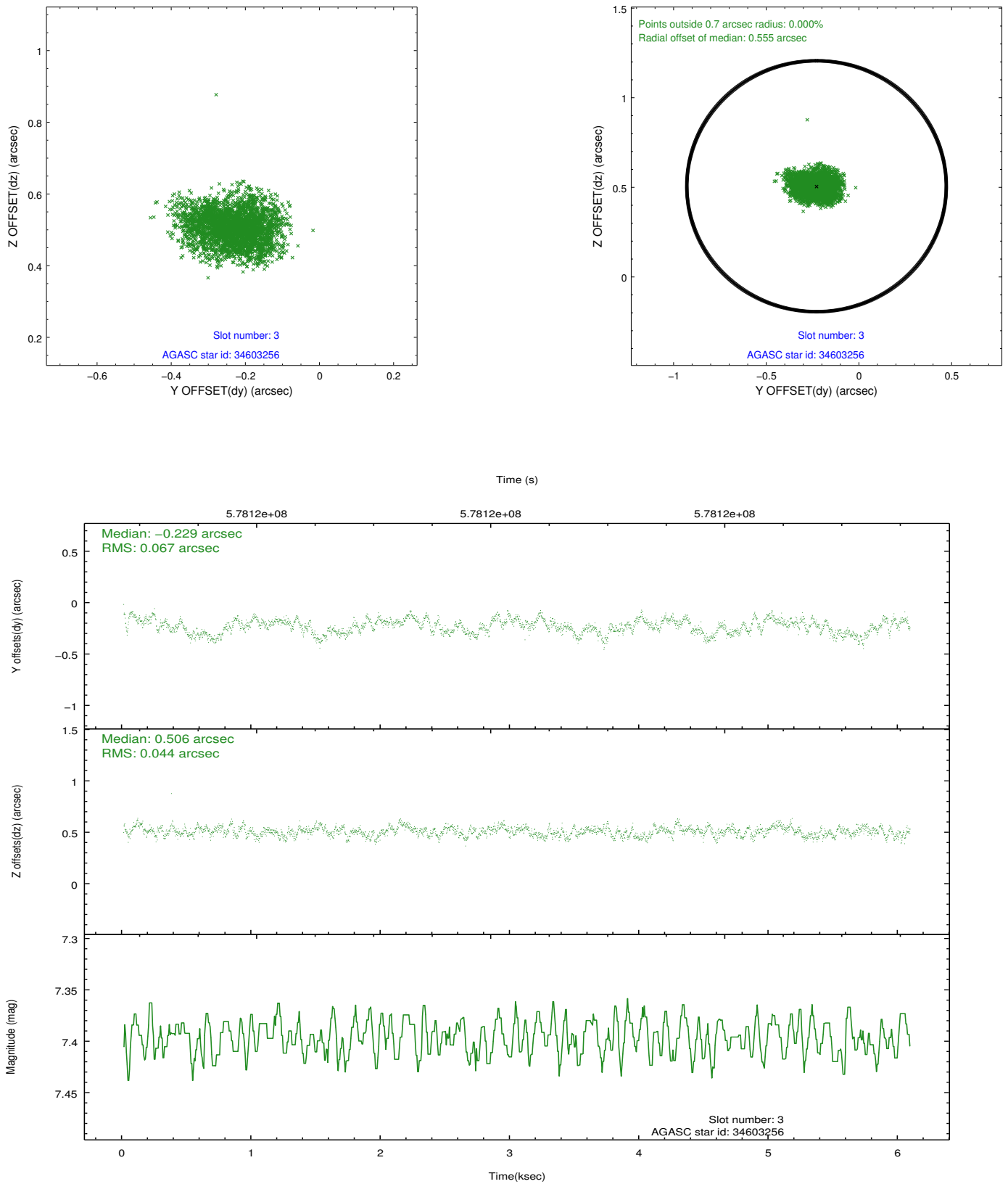


### Slot Statistics

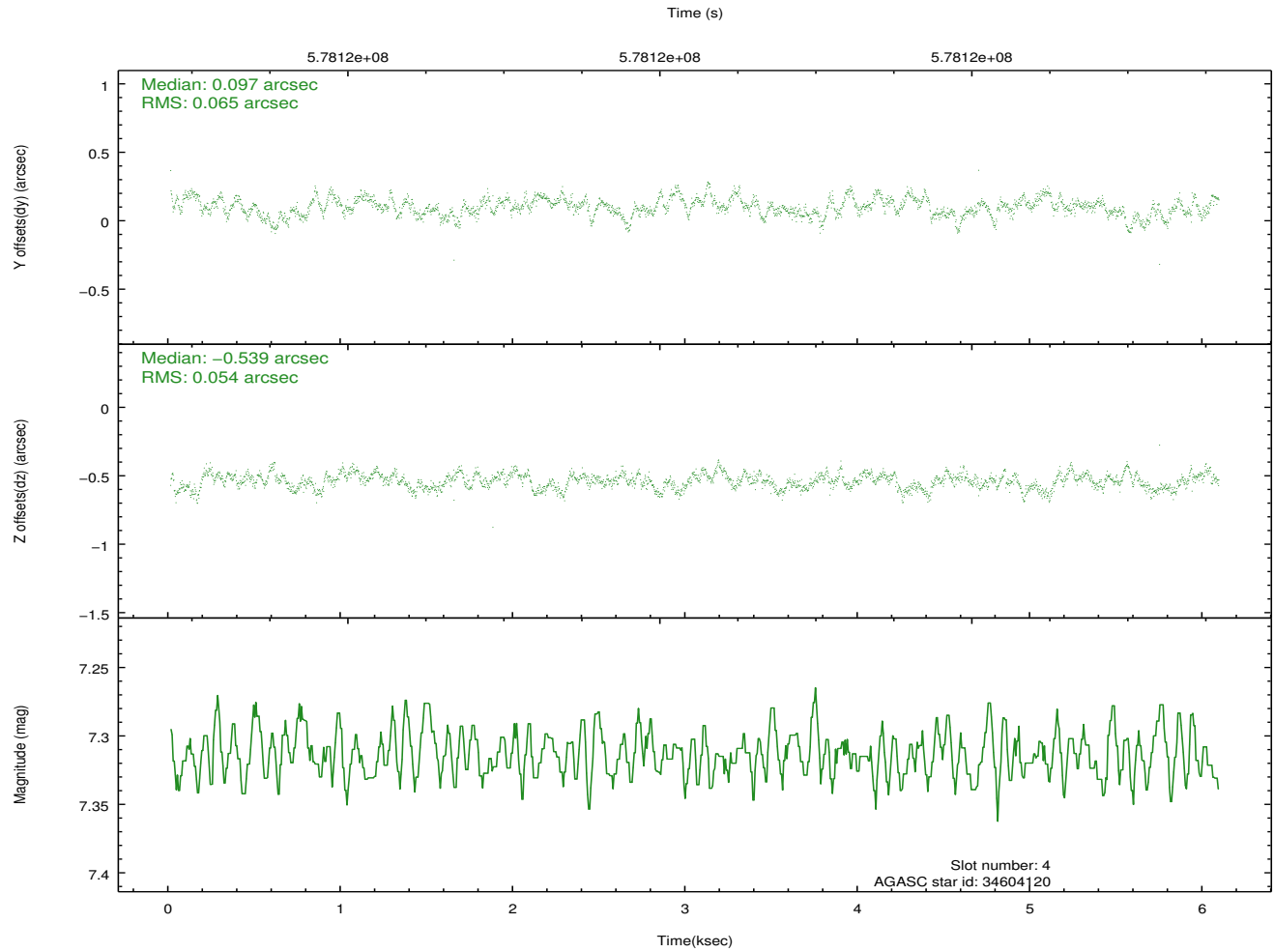
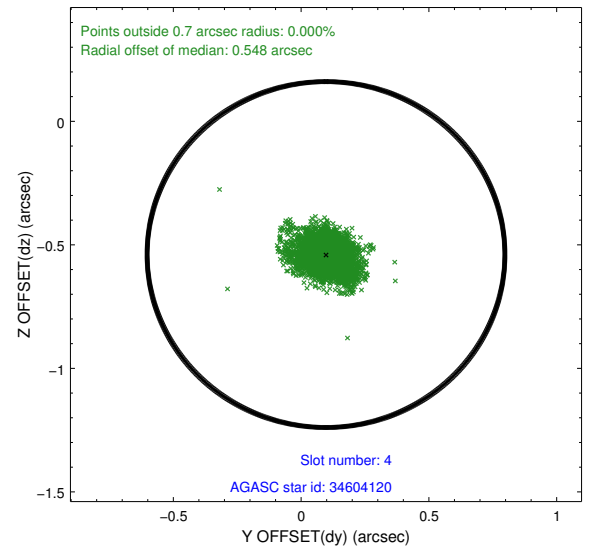
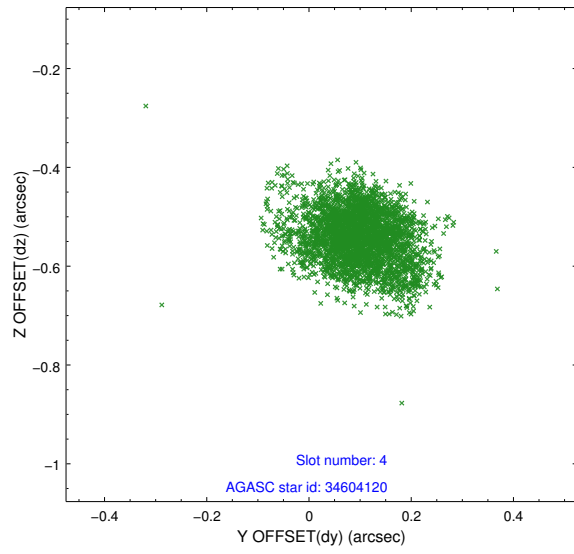
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	1484	-0.121	-0.123	0.015	0.026	0.000000	0.000000	-766.35	-1739.14
1	FID		ACIS-S-4	7.21	1484	0.411	0.093	0.022	0.031	0.000000	0.000000	2147.02	168.53
2	FID		ACIS-S-5	7.23	1484	-0.319	0.039	0.010	0.017	0.000000	0.000000	-1818.13	163.27
3	GUIDE	used	34603256	7.40	2967	-0.229	0.506	0.088	0.135	171.844574	1.373841	1391.18	-152.70
4	GUIDE	used	34604120	7.31	2968	0.097	-0.539	0.088	0.148	171.889486	1.301499	1573.34	91.12
5	GUIDE	used	34605440	7.74	2967	-0.086	-0.352	0.071	0.116	172.196073	1.203825	1494.34	1246.85
6	GUIDE	used	34608640	8.84	2965	0.133	0.660	0.103	0.184	171.454140	1.872320	238.35	-2119.64
7	GUIDE	used	34608656	8.32	2967	0.081	-0.268	0.128	0.186	172.166117	1.871159	-700.23	262.11

## 2.4 Star Slots

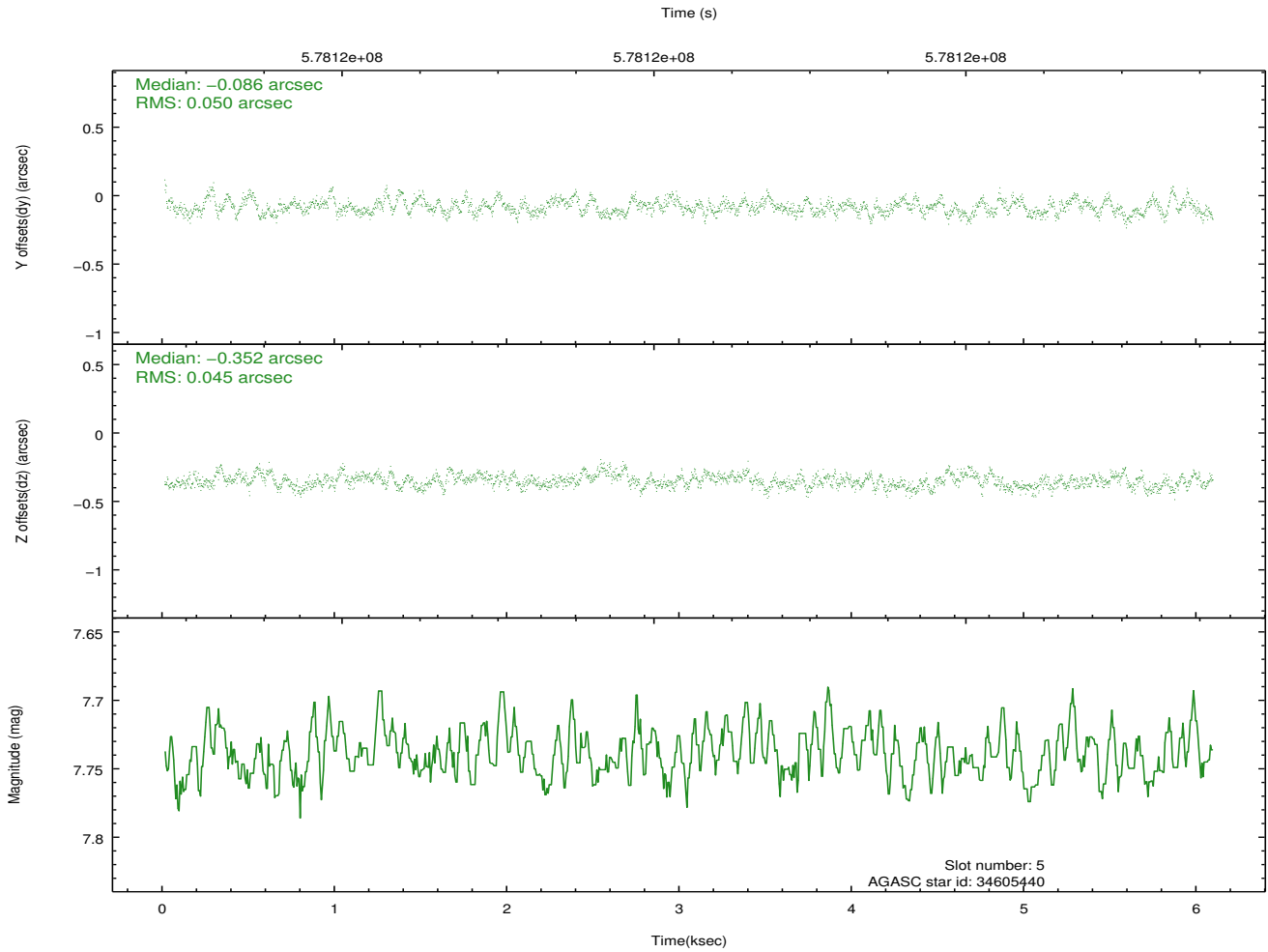
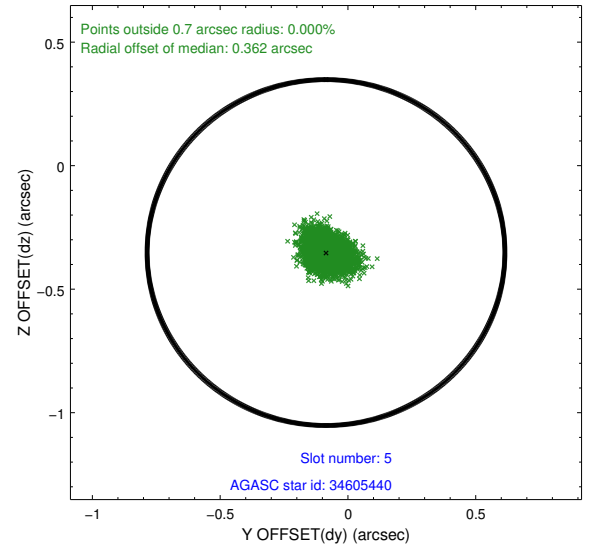
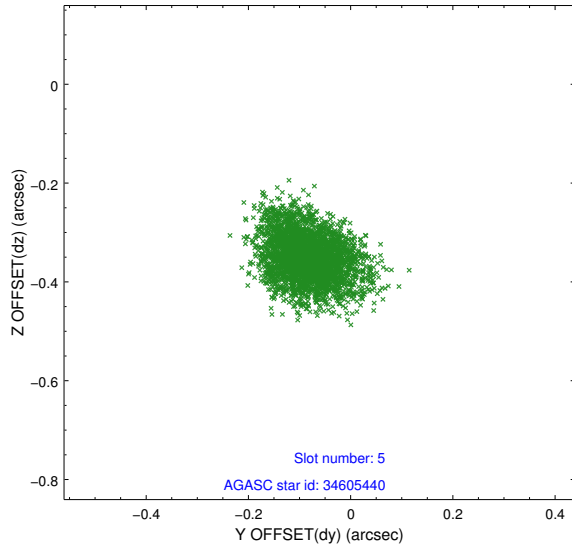
### 2.4.1 Slot 3



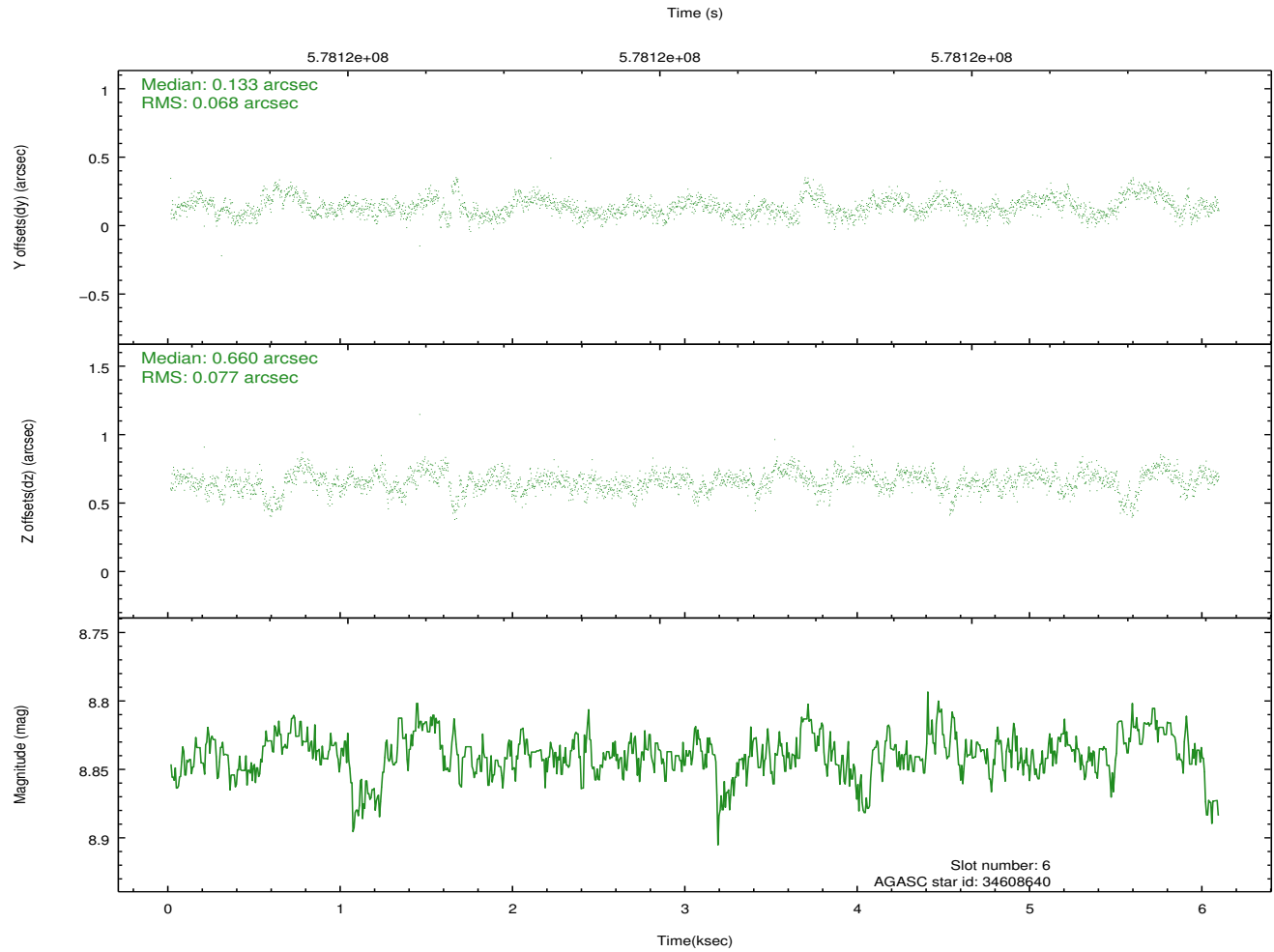
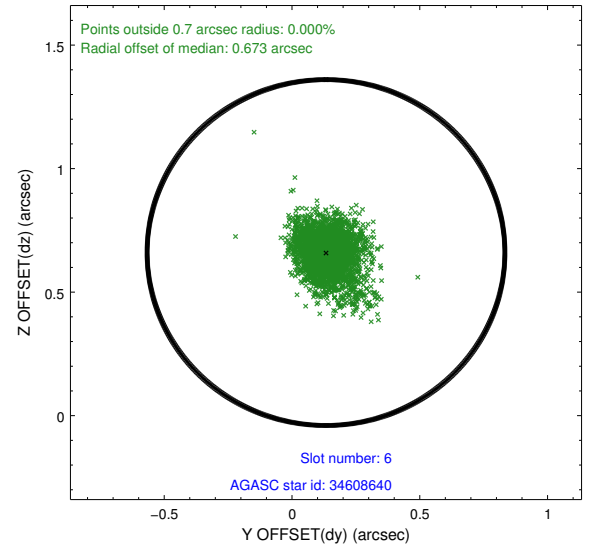
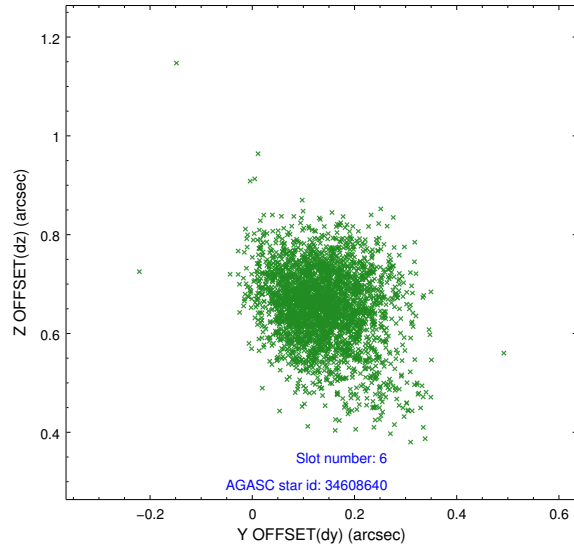
## 2.4.2 Slot 4



### 2.4.3 Slot 5

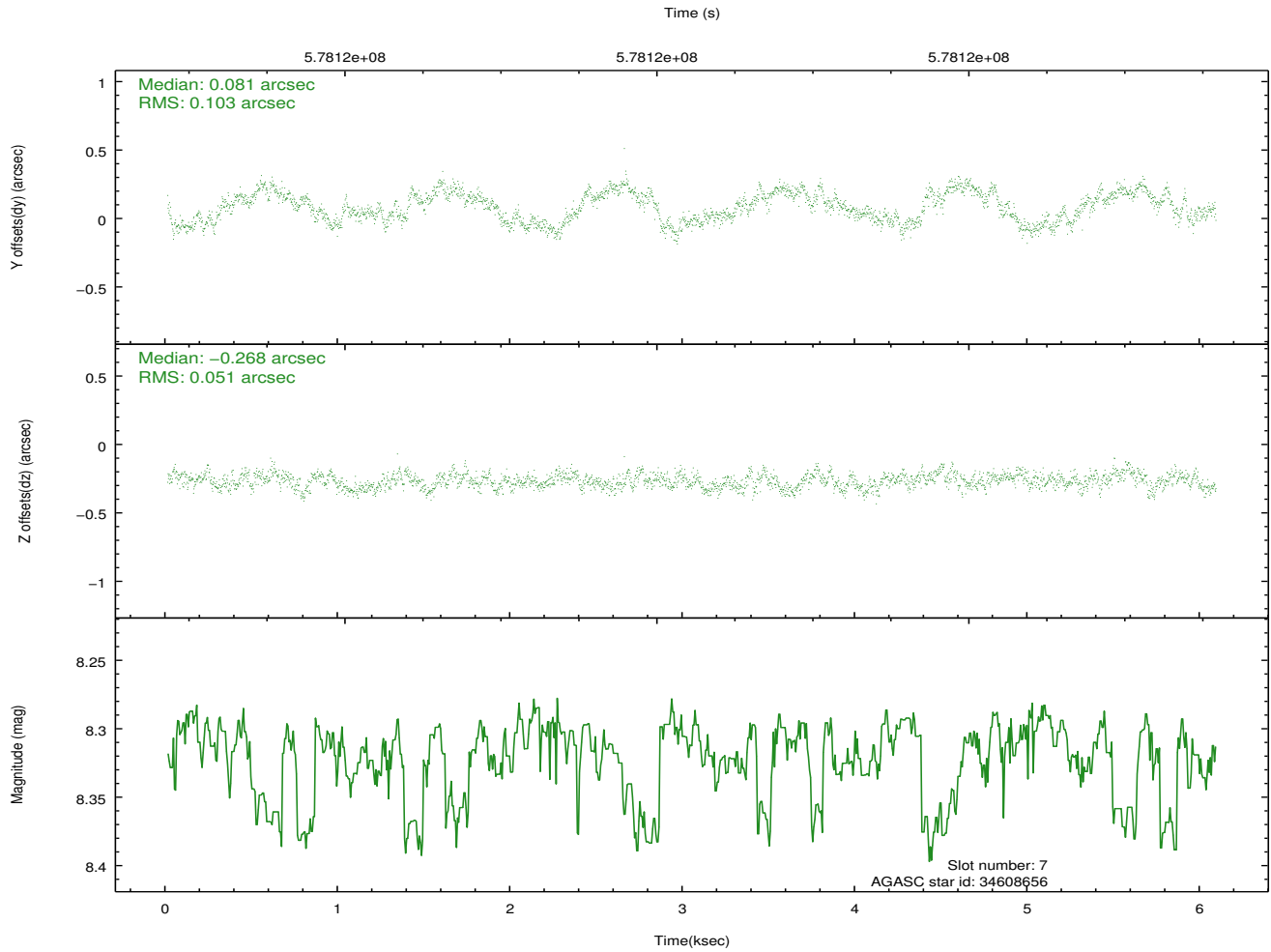
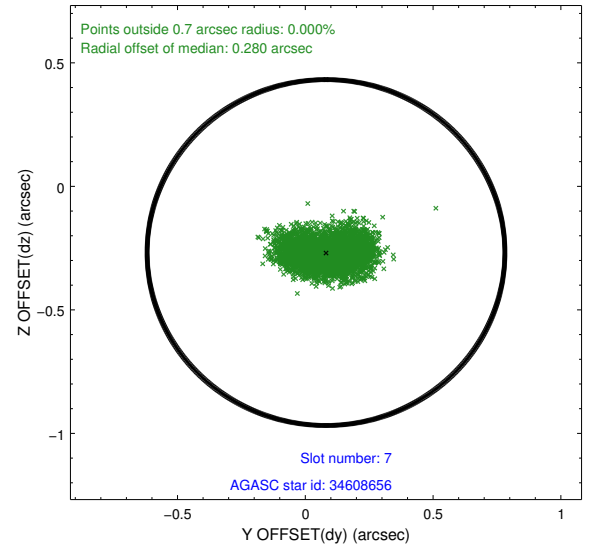
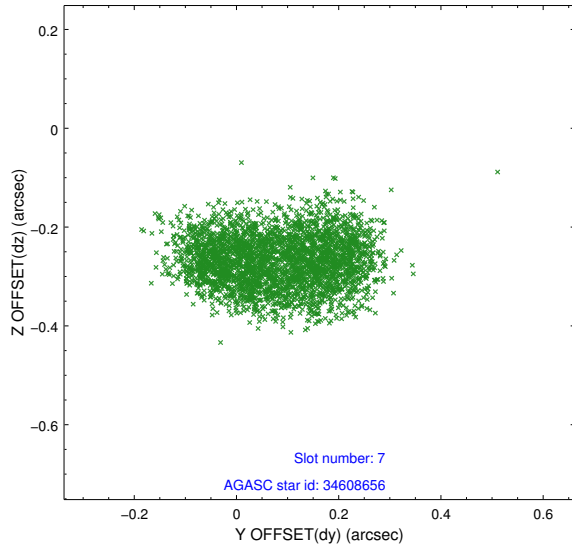


## 2.4.4 Slot 6



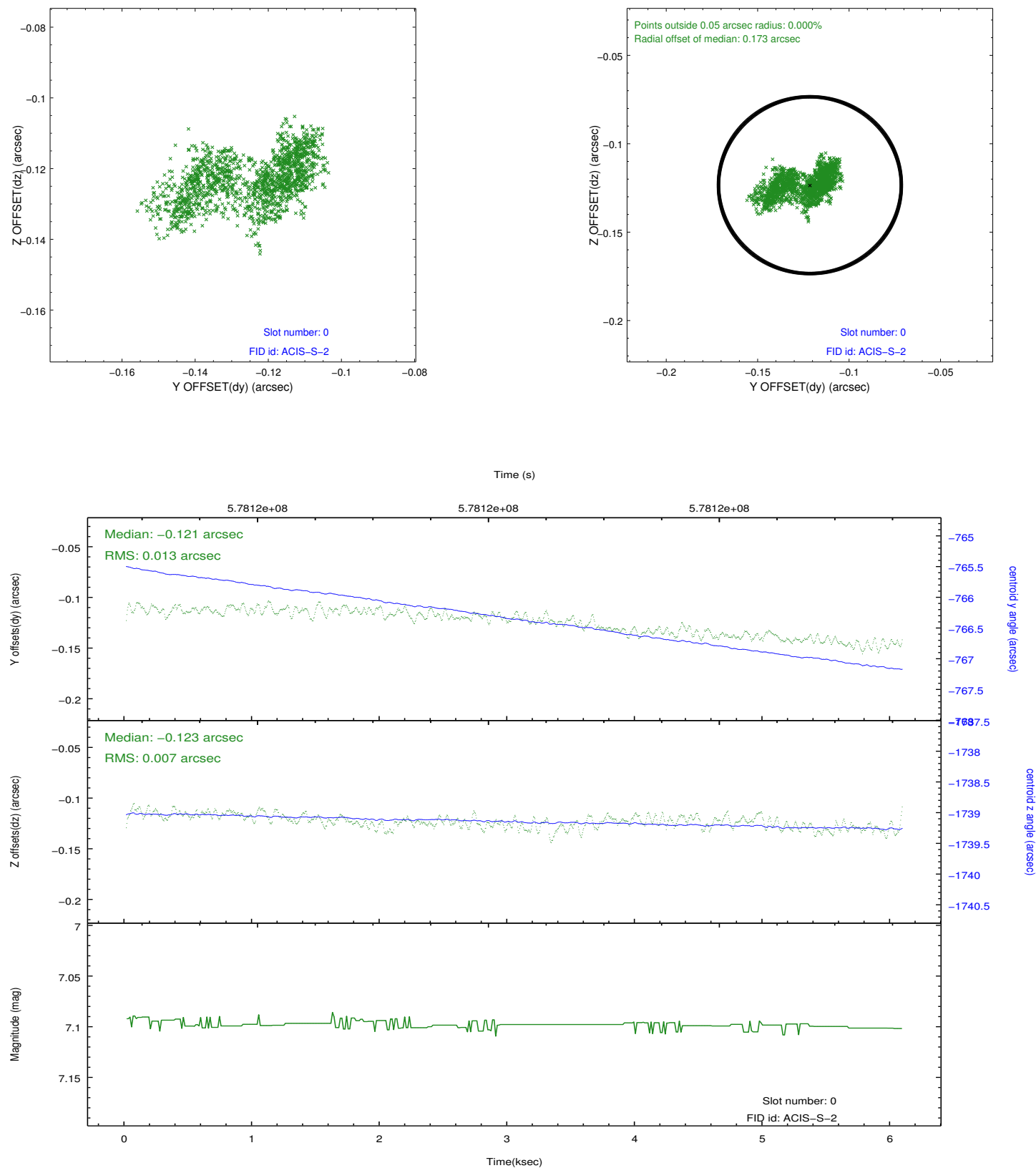


## 2.4.5 Slot 7

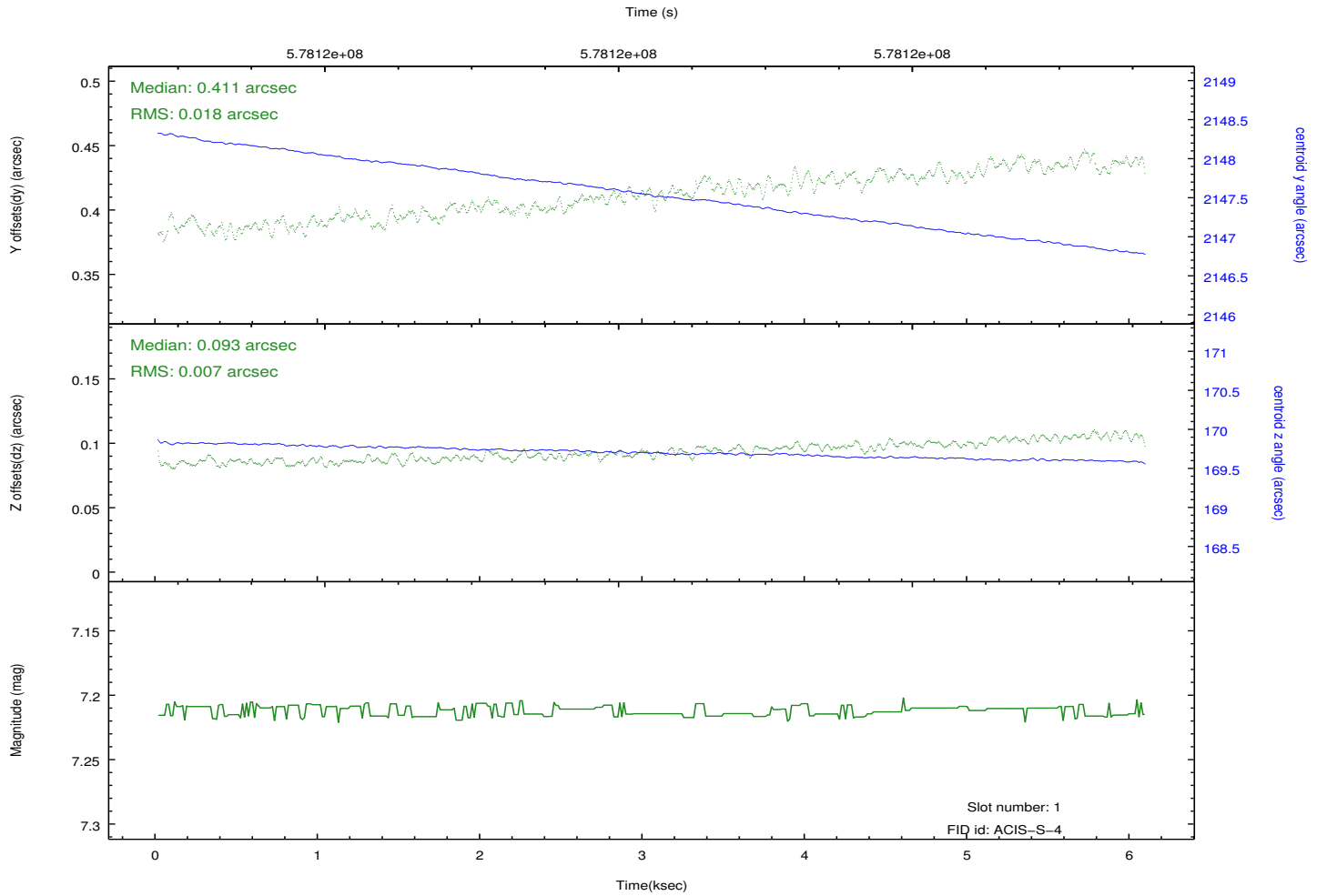
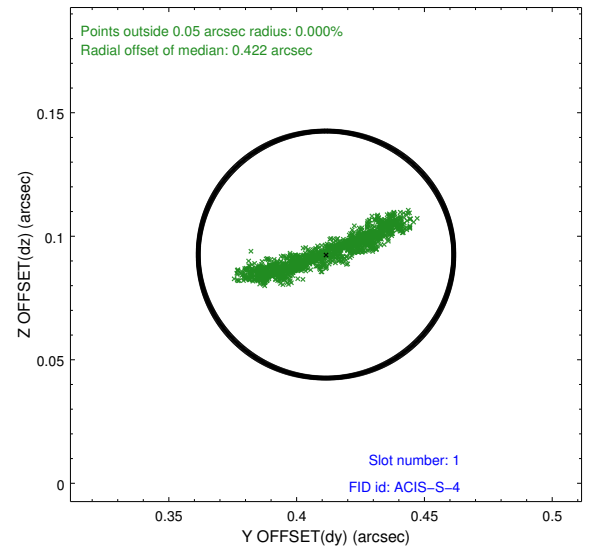
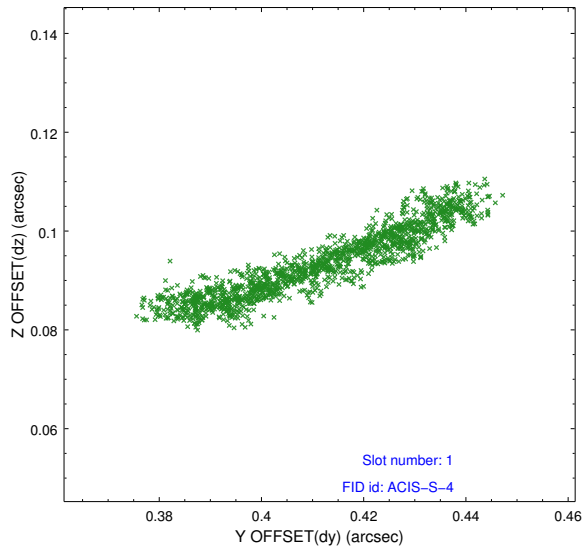


## 2.5 FID Slots

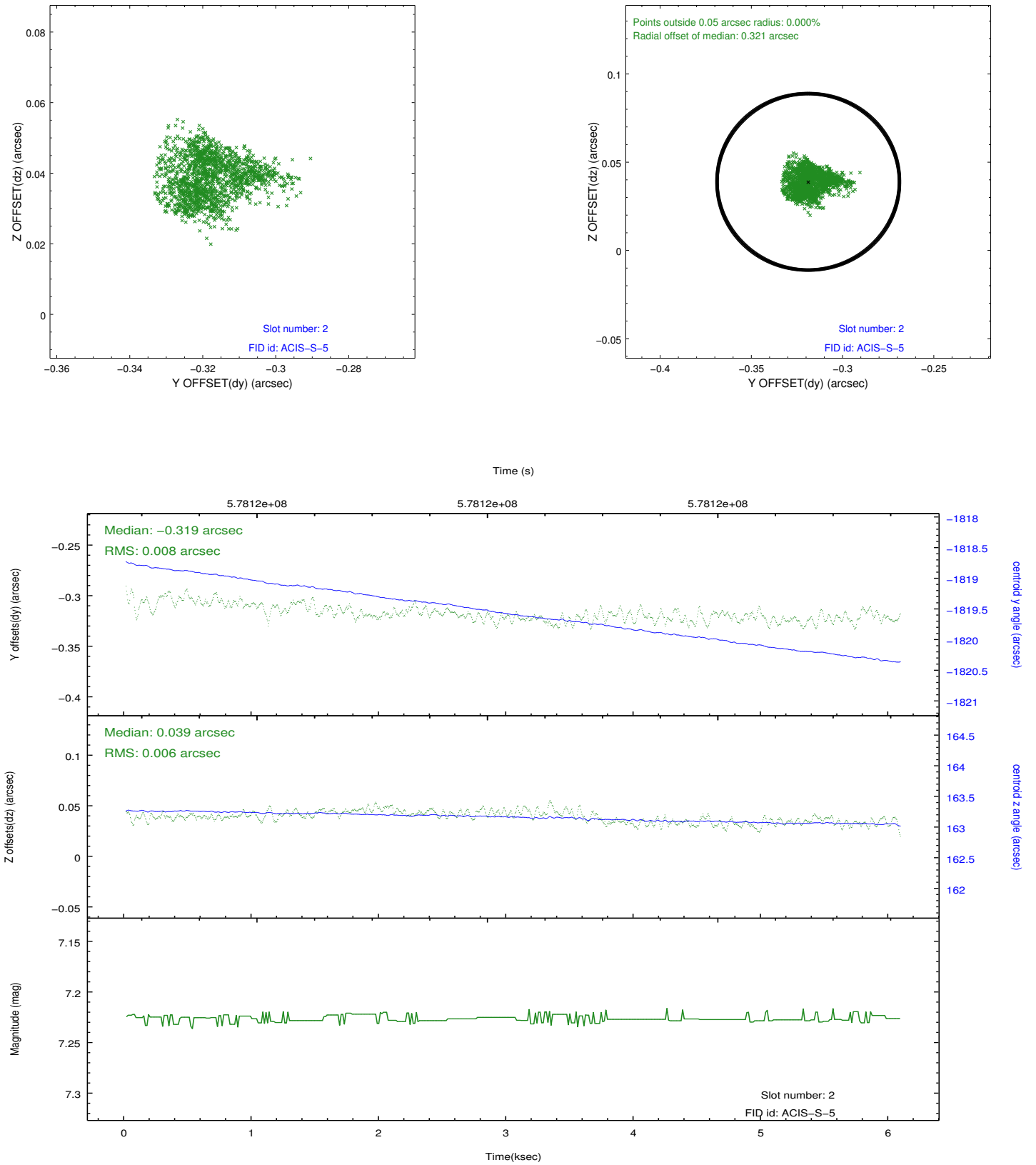
### 2.5.1 Slot 0



## 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)	2016.04.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.6534891858101

### A.2 Comments