

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9325 - L2 Version 2  
Chandra X-Ray Center

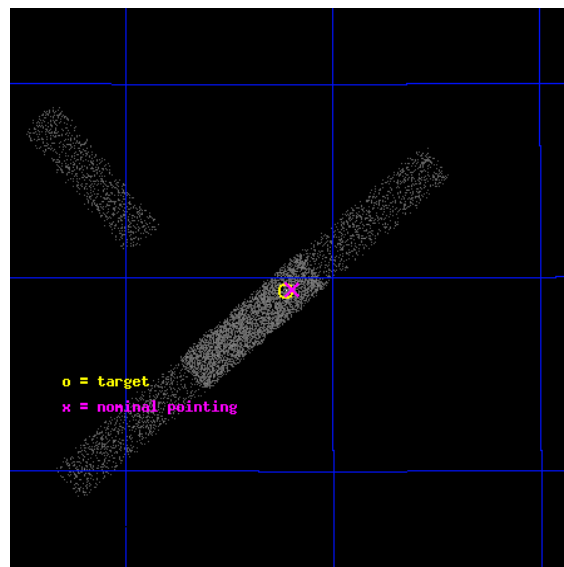
L2 Processing Date : May 31 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

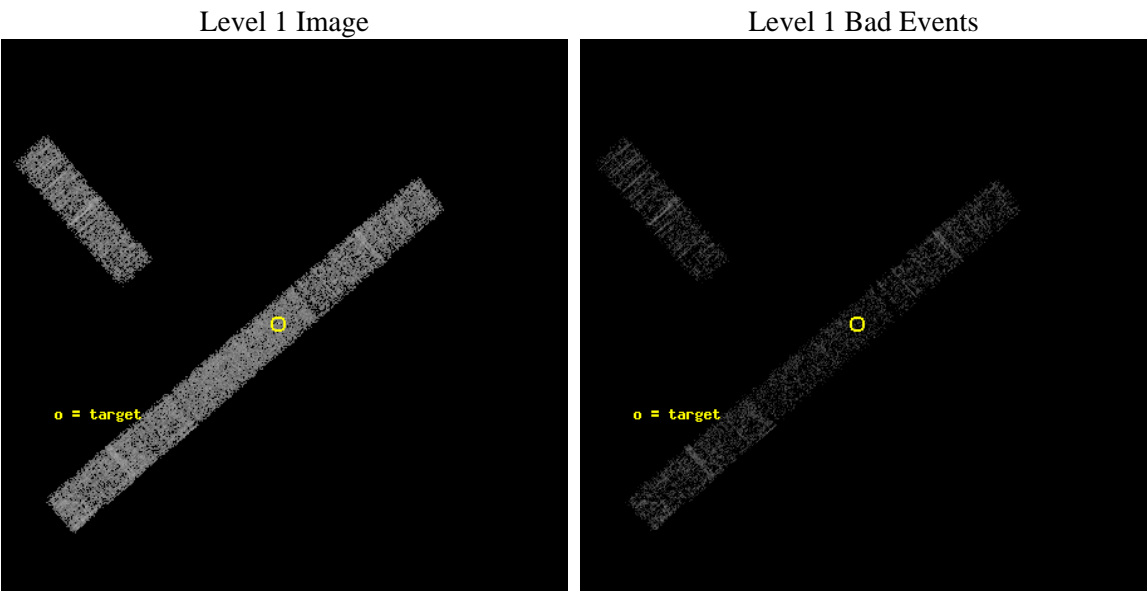
seq_num	701765	Sequence number
obs_id	9325	Observation id
title	Orientation effects in the X-ray and multi-wavelength properties of high-z, 3CRR quasars.	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	3CRR 268.4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.306667	Observer's specified target RA [deg]
dec_targ	43.655722	Observer's specified target Dec [deg]
ra_nom	182.29981231881	Nominal RA [deg]
dec_nom	43.656332294089	Nominal Dec [deg]
roll_nom	139.24123446061	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3142.0	Sum of GTIs [s]
livetime	3018.1357104434	Livetime [s]
ontime3	3142.0	Sum of GTIs [s]
ontime6	3142.0	Sum of GTIs [s]
ontime7	3142.0	Sum of GTIs [s]
ontime8	3142.0	Sum of GTIs [s]
l2events	8243	Number of level 2 events



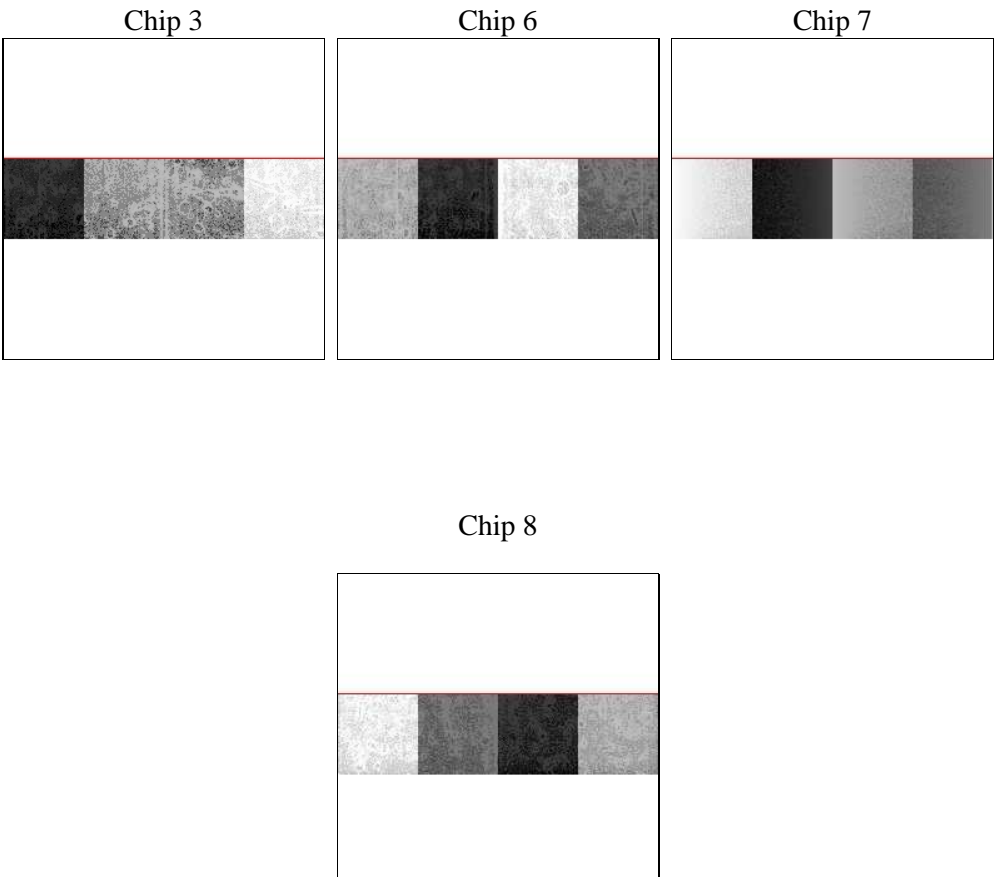
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3142.0	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime3	3142.0	Sum of GTIs [s]
date	2012-05-31T14:16:52	Date and time of file creation	ontime6	3142.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	3142.0	Sum of GTIs [s]
			ontime8	3142.0	Sum of GTIs [s]
			l1events	50800	Number of level 1 events

### 2.1.4 Events

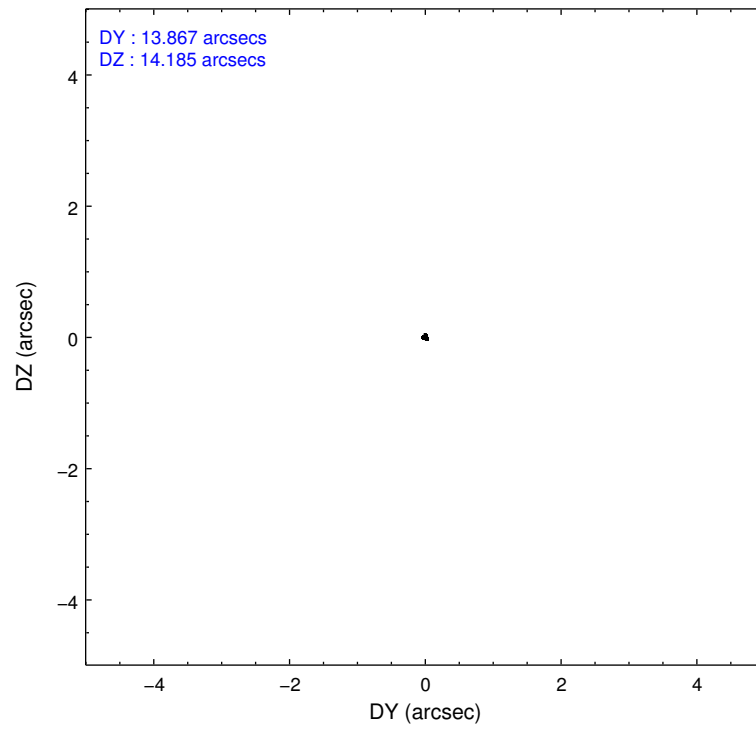
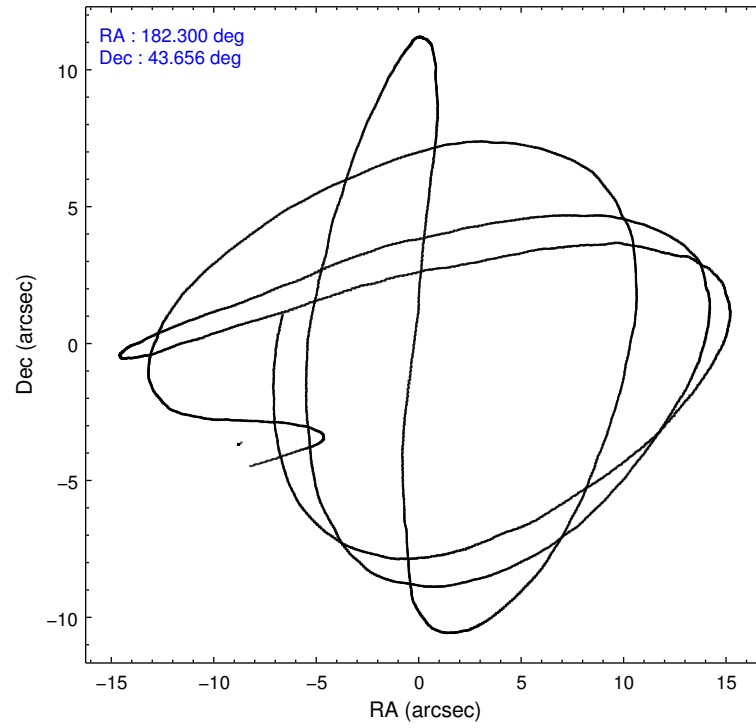
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	11315	10878	13874	14733
rejected events	10225	9706	8458	11996
rejected %	90%	89%	60%	81%

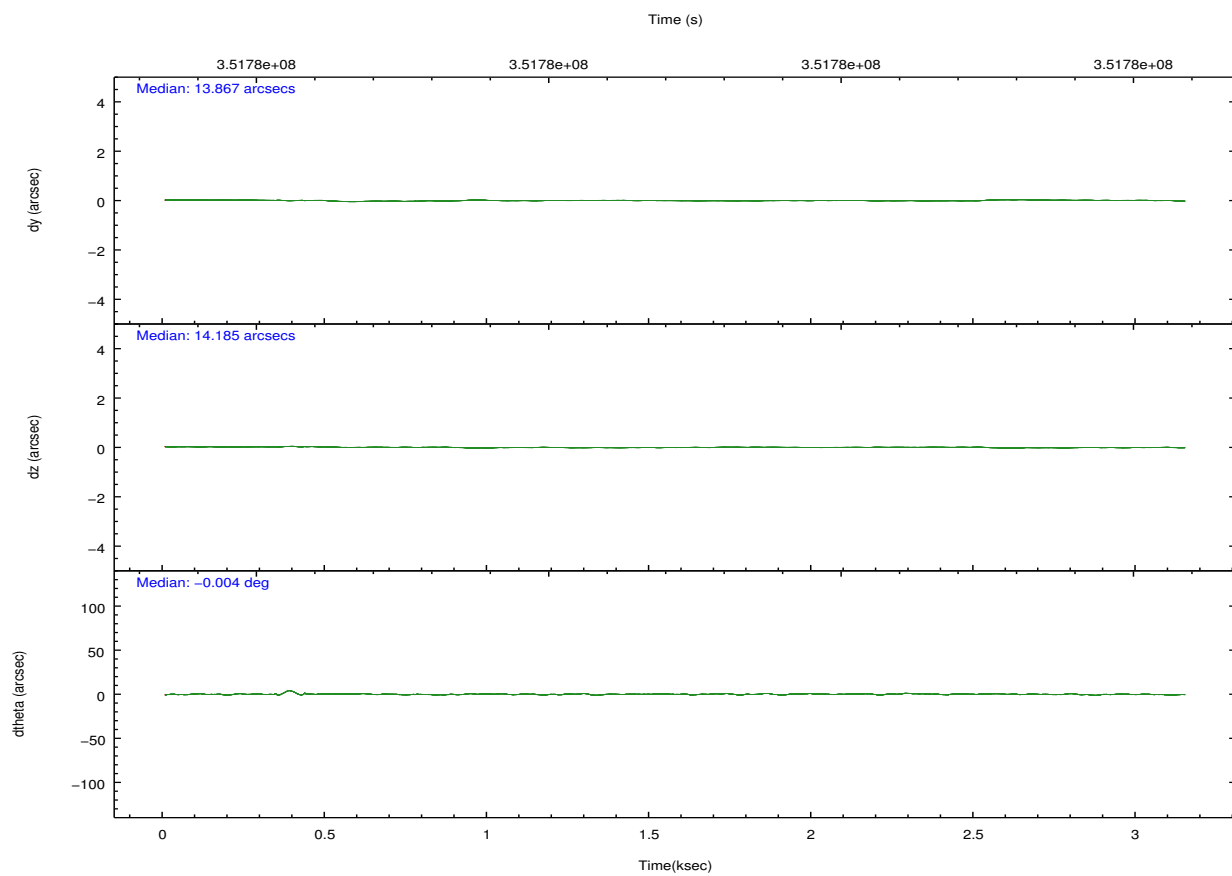
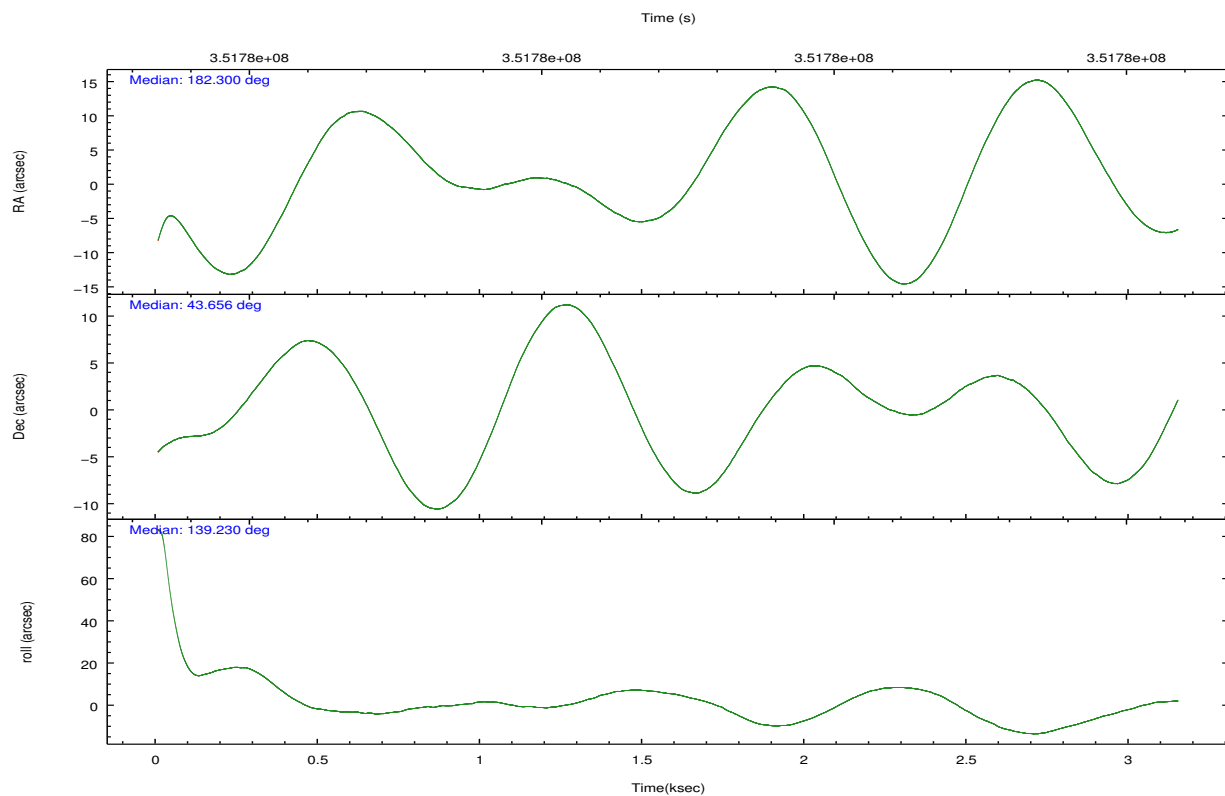
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	471	494	681	968
	4%	4%	4%	6%
grade 1 events	4	6	22	4
	0%	0%	0%	0%
grade 2 events	209	265	1316	689
	1%	2%	9%	4%
grade 3 events	182	205	626	375
	1%	1%	4%	2%
grade 4 events	179	179	619	331
	1%	1%	4%	2%
grade 5 events	449	476	1311	599
	3%	4%	9%	4%
grade 6 events	208	241	3008	909
	1%	2%	21%	6%
grade 7 events	9613	9012	6291	10858
	84%	82%	45%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	182.337265	182.2998123188147	CCD I2 on	N	N
[deg] Pointing Dec	43.651752	43.65633229408874	CCD I3 on	O1	Y
[deg] Pointing Roll	139.058418	139.2412344606069	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O2	Y
[s] Observation start time (MET)	351779001.184000	351778054.21417	CCD S5 on	N	N
Observation start date	2009-02-23T12:22:15	2009-02-23T12:07:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351782001.184000	351782769.21441	On-chip summing requested	N	N
Observation end date	2009-02-23T13:12:15	2009-02-23T13:26:09	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

## 2.3 Aspect





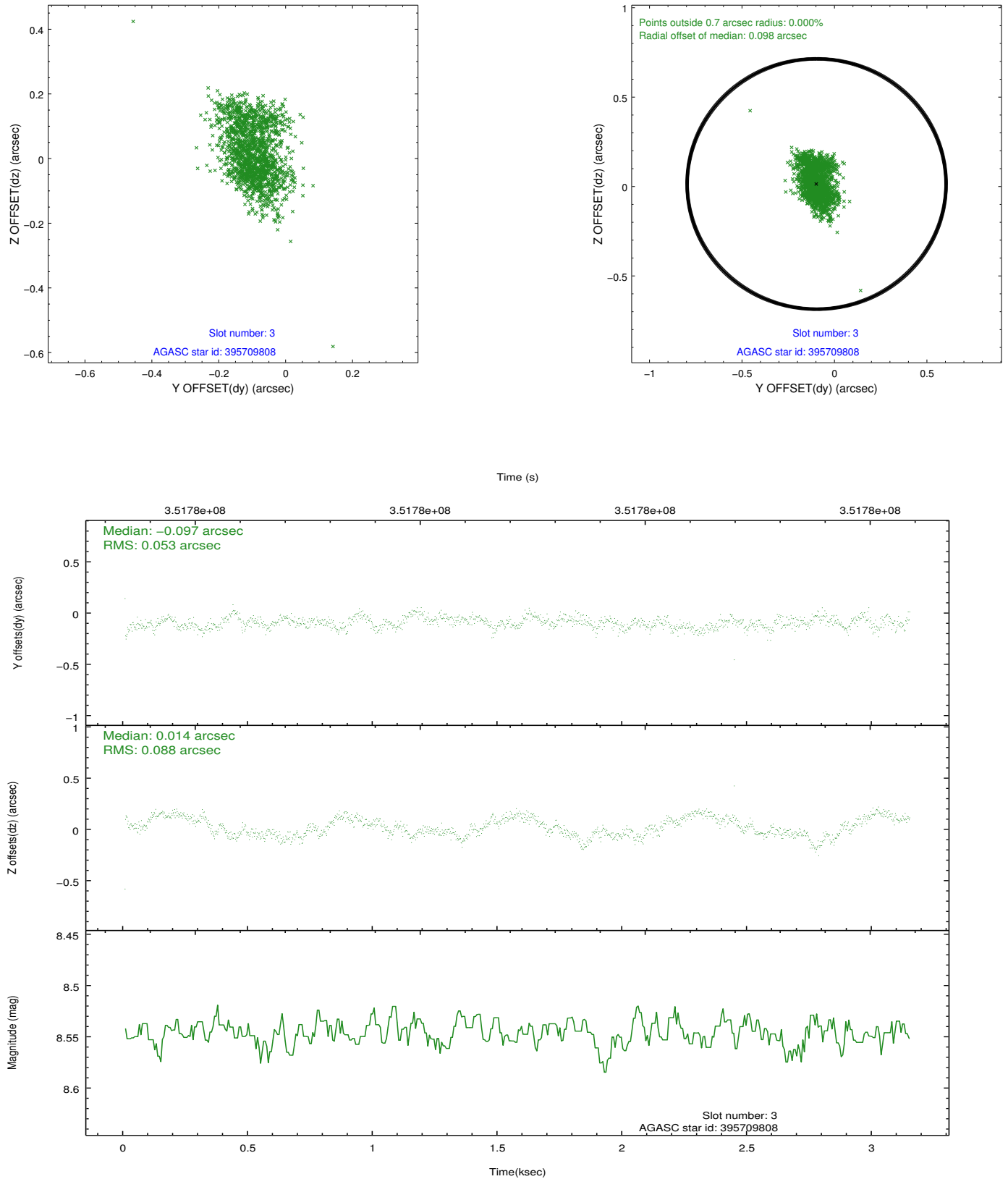
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	768	-0.129	-0.089	0.005	0.010	0.000000	0.000000	-766.95	-1735.57
1	FID	ACIS-S-4	7.05	768	0.145	0.064	0.006	0.011	0.000000	0.000000	2145.69	170.94
2	FID	ACIS-S-6	7.19	768	-0.044	0.032	0.006	0.011	0.000000	0.000000	397.73	810.62
3	GUIDE	395709808	8.55	1534	-0.097	0.014	0.110	0.174	182.156296	44.413388	2148.87	-1766.68
4	GUIDE	395715072	9.52	1534	-0.026	-0.245	0.104	0.177	182.150841	42.961754	-1255.01	2195.92
5	GUIDE	395715448	9.35	1535	0.118	0.174	0.136	0.226	182.849040	43.704154	-880.21	-1017.35
6	GUIDE	395709312	10.14	1535	0.096	-0.127	0.196	0.310	182.365524	44.516002	1983.72	-2398.35
7	GUIDE	395712224	10.31	1521	-0.092	0.175	0.199	0.331	182.545374	42.904010	-2176.64	1671.89

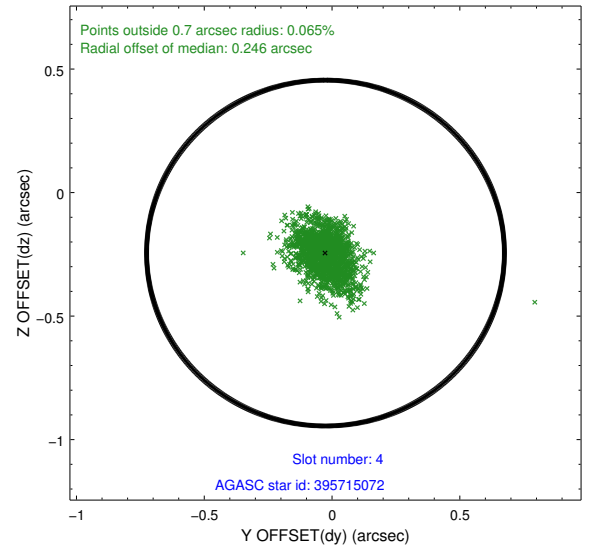
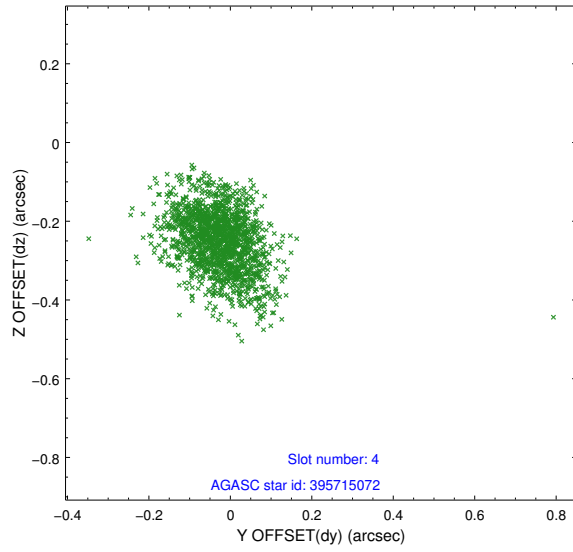


## 2.4 Star Slots

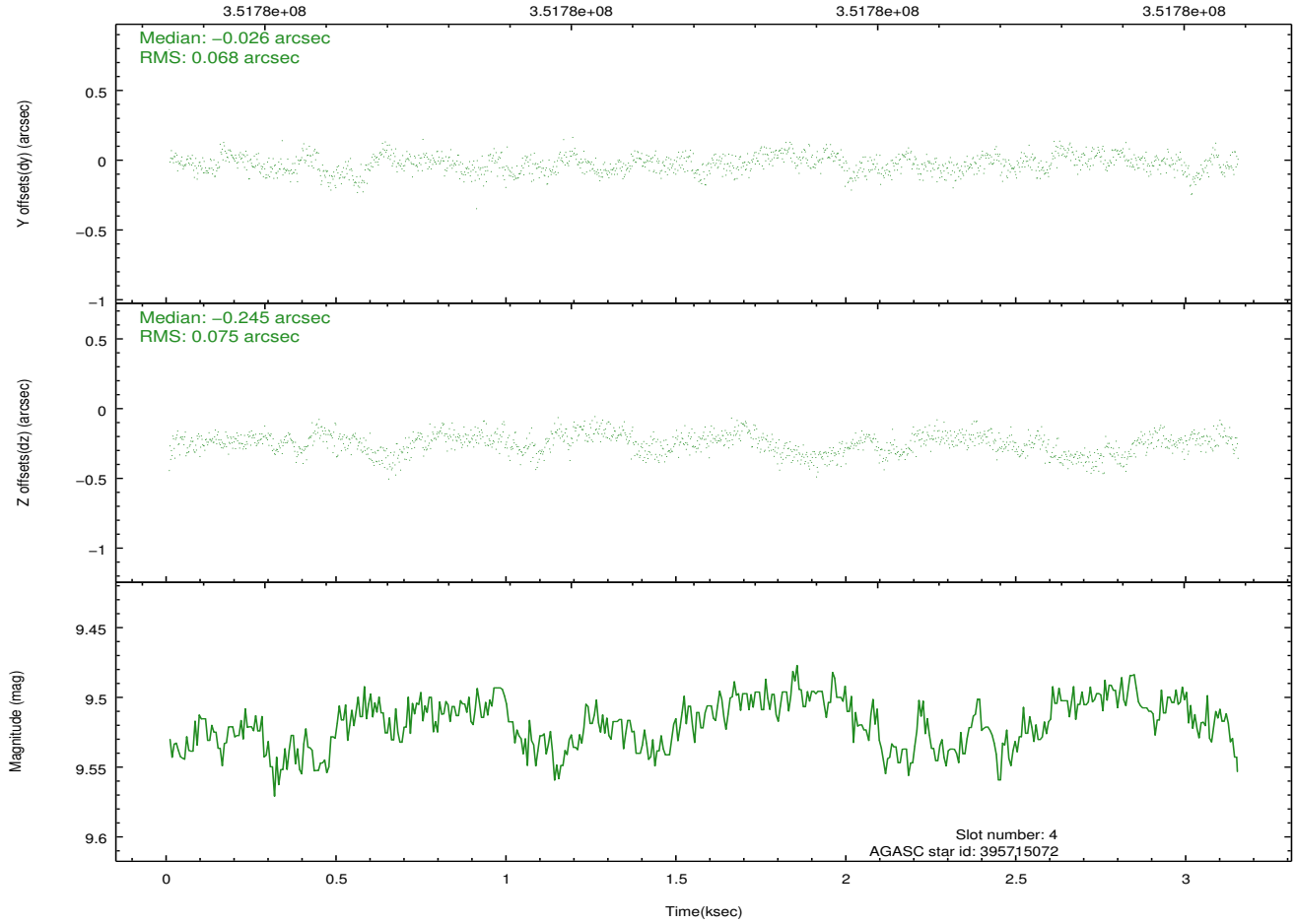
### 2.4.1 Slot 3



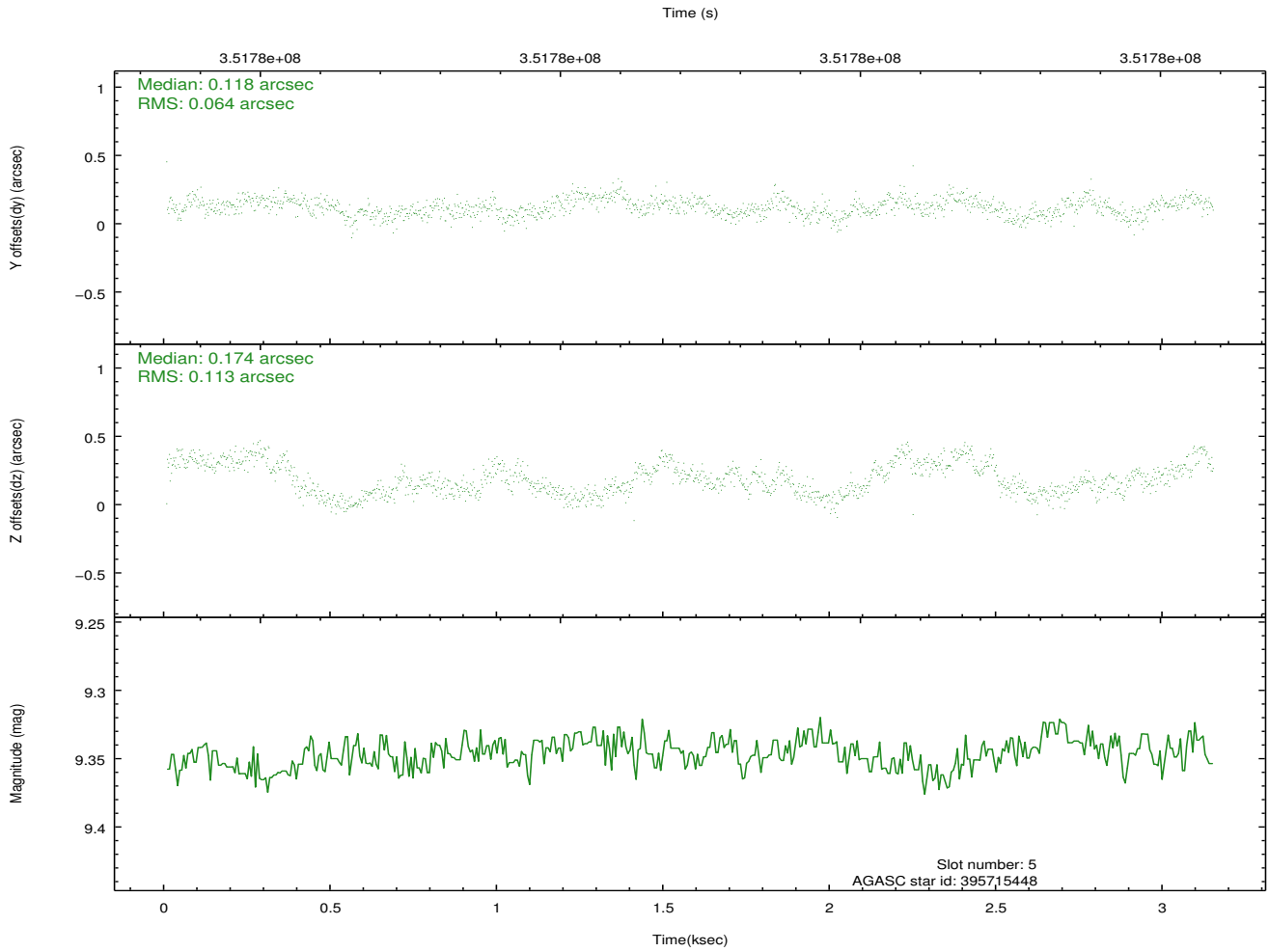
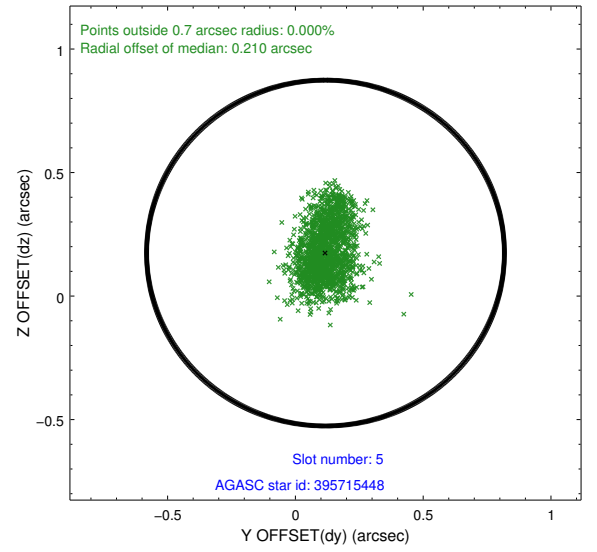
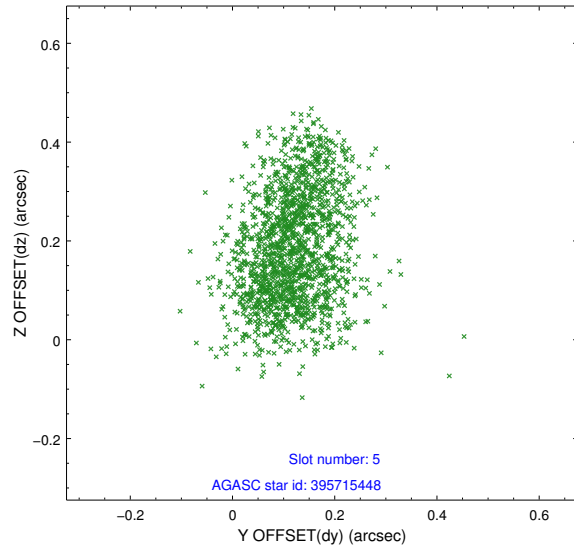
## 2.4.2 Slot 4



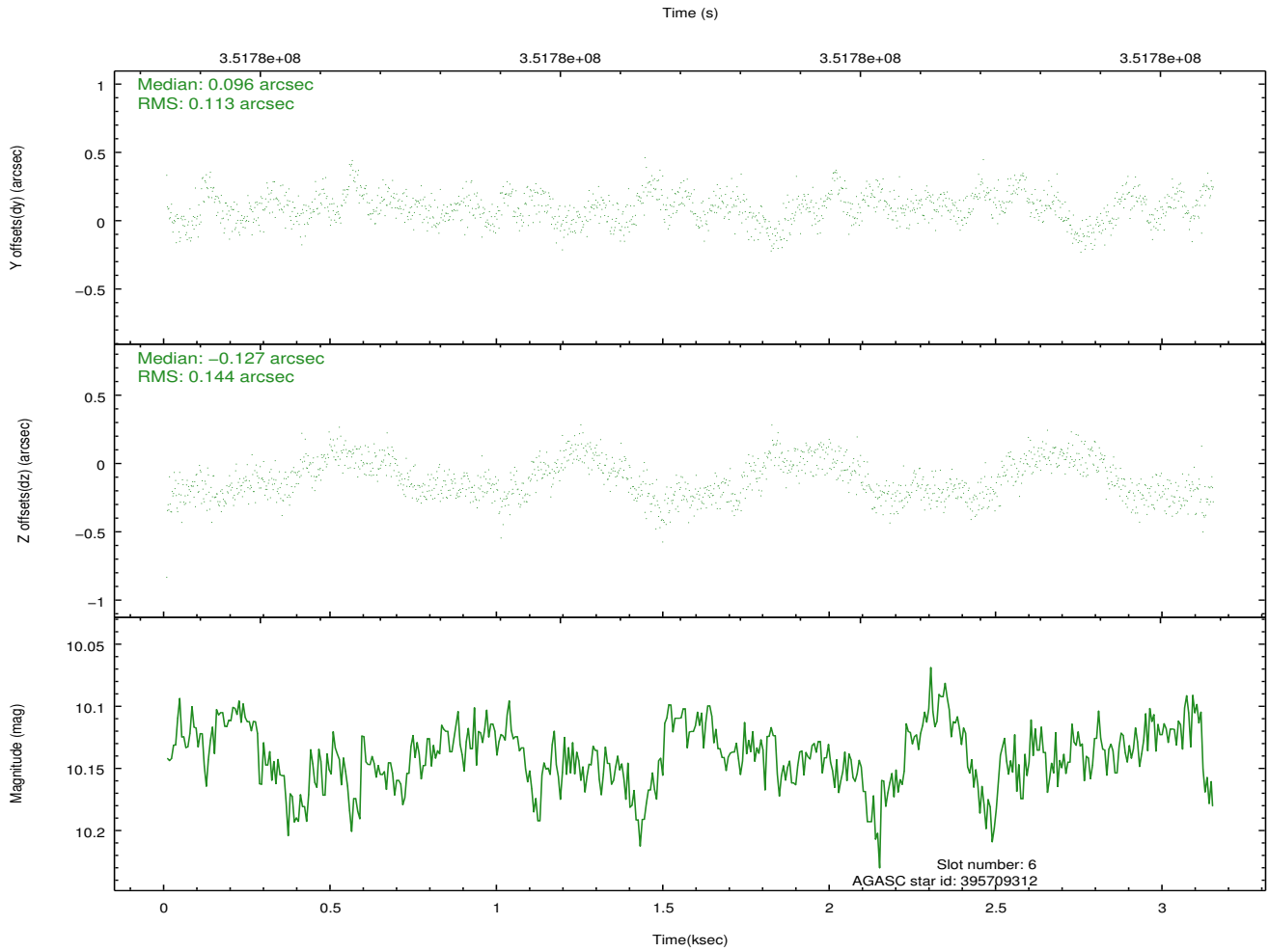
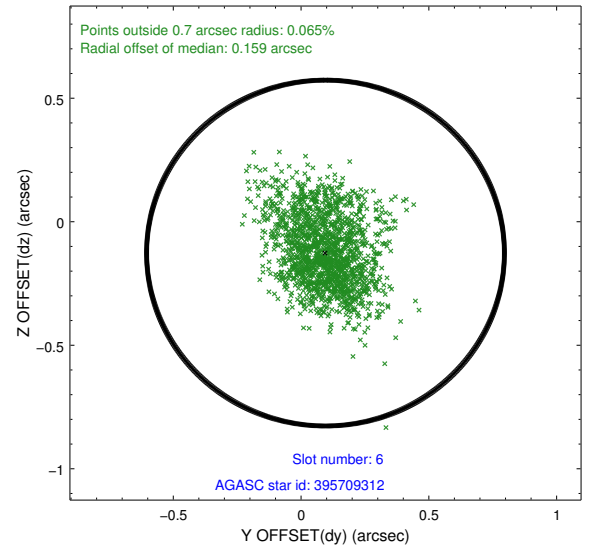
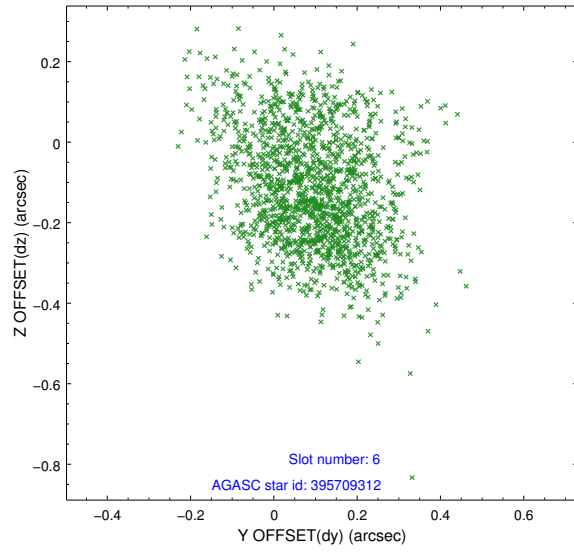
Time (s)



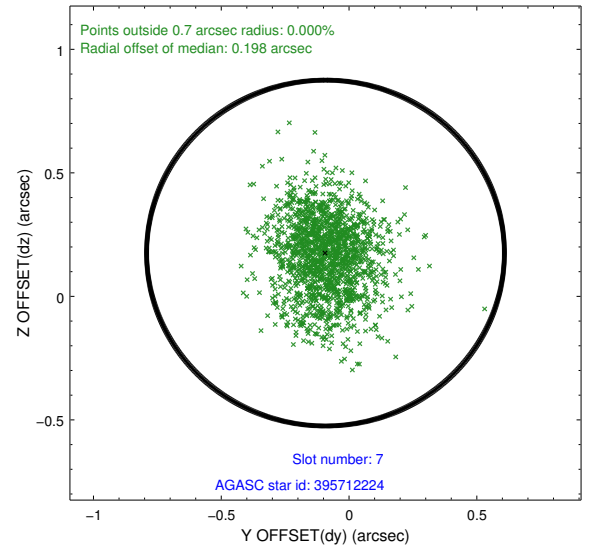
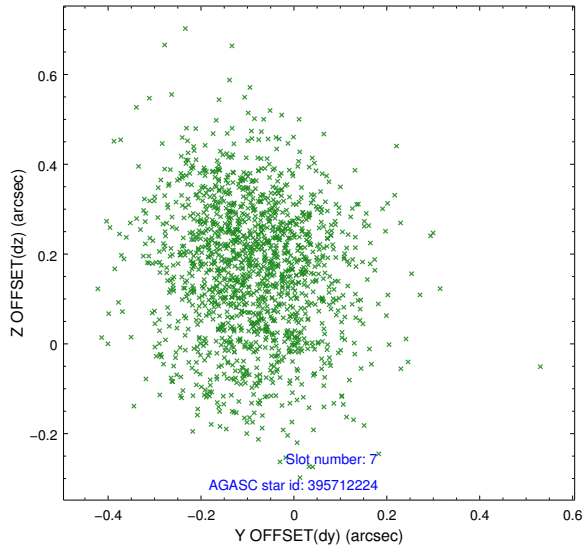
### 2.4.3 Slot 5



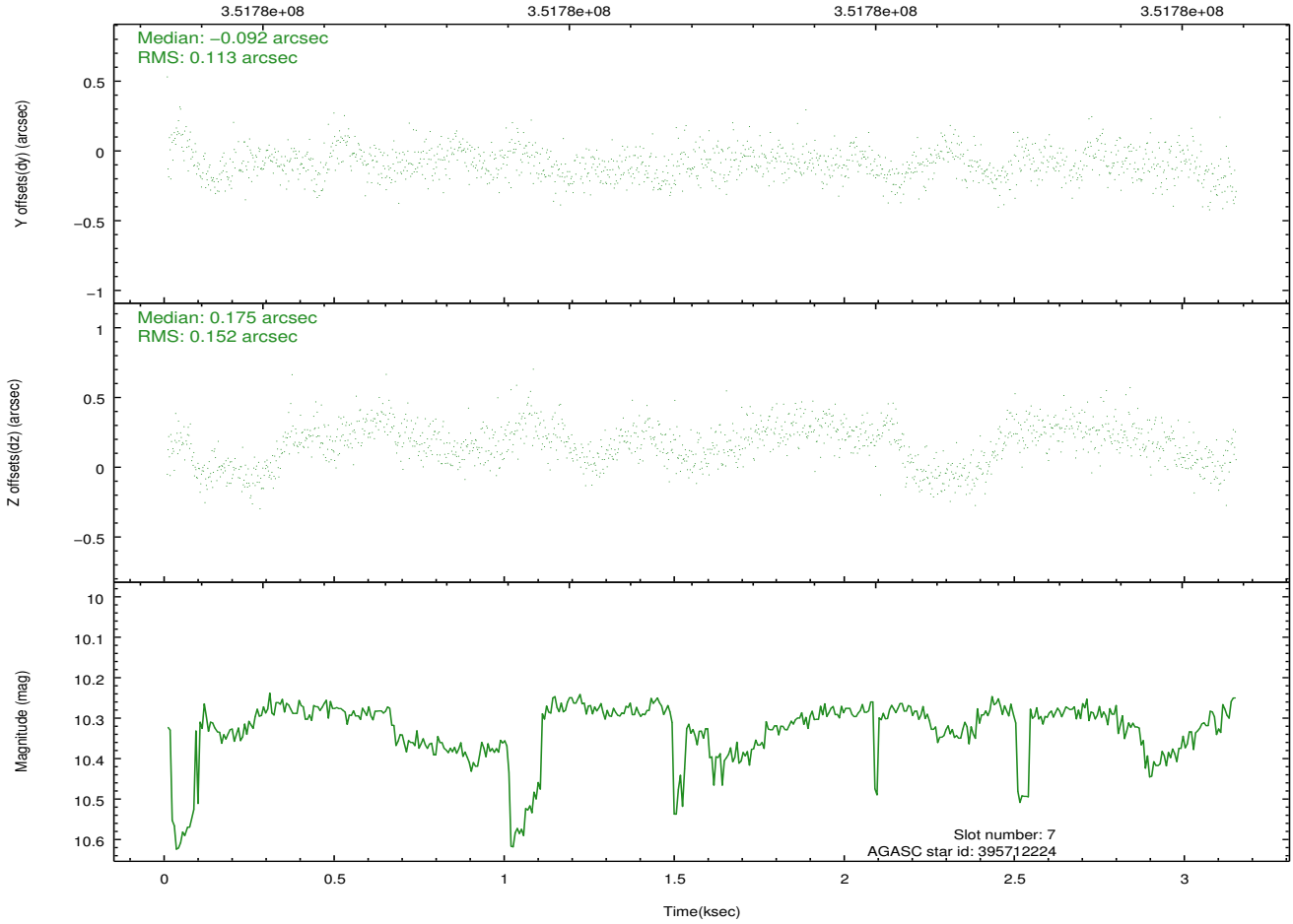
## 2.4.4 Slot 6



## 2.4.5 Slot 7

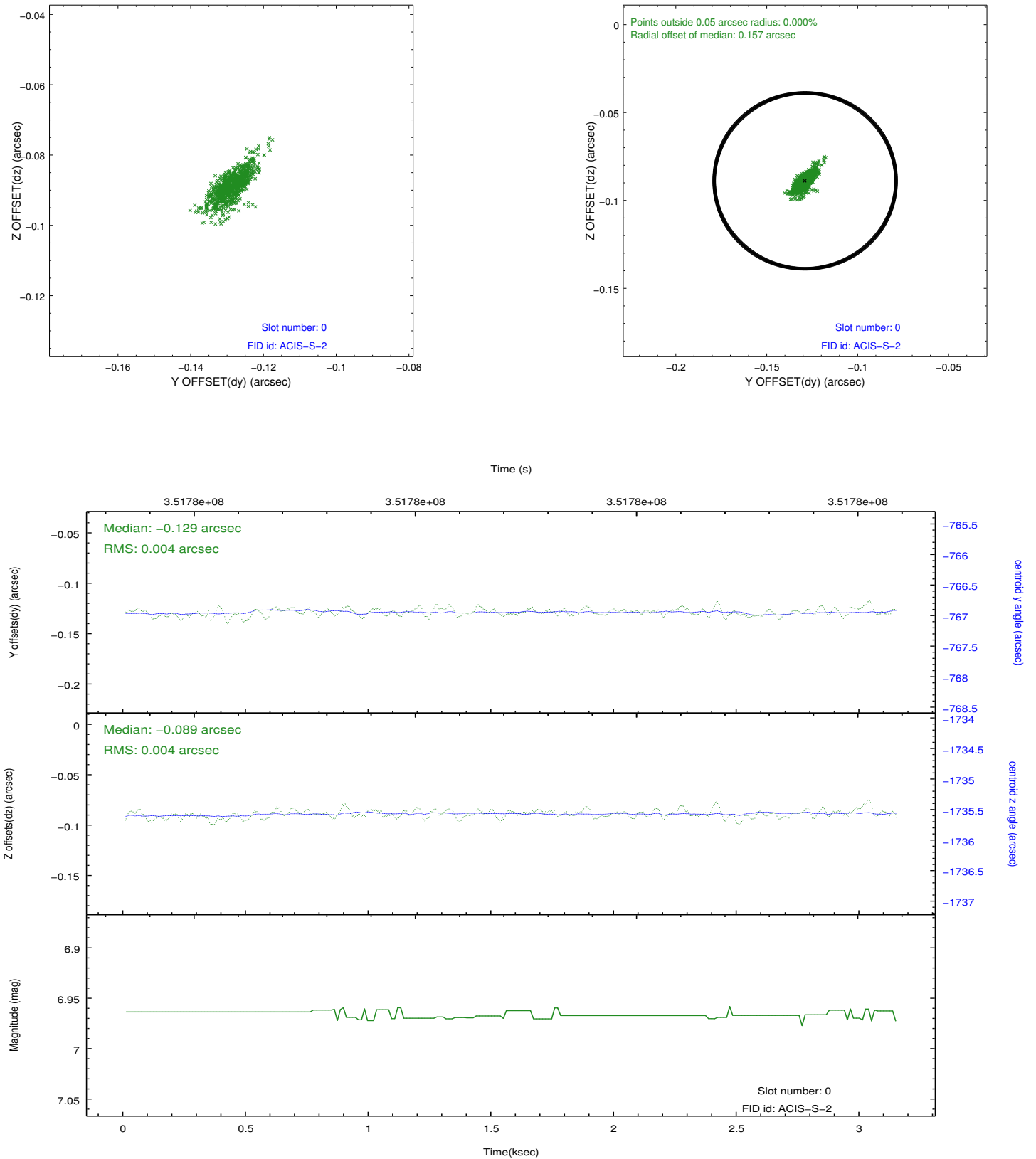


Time (s)

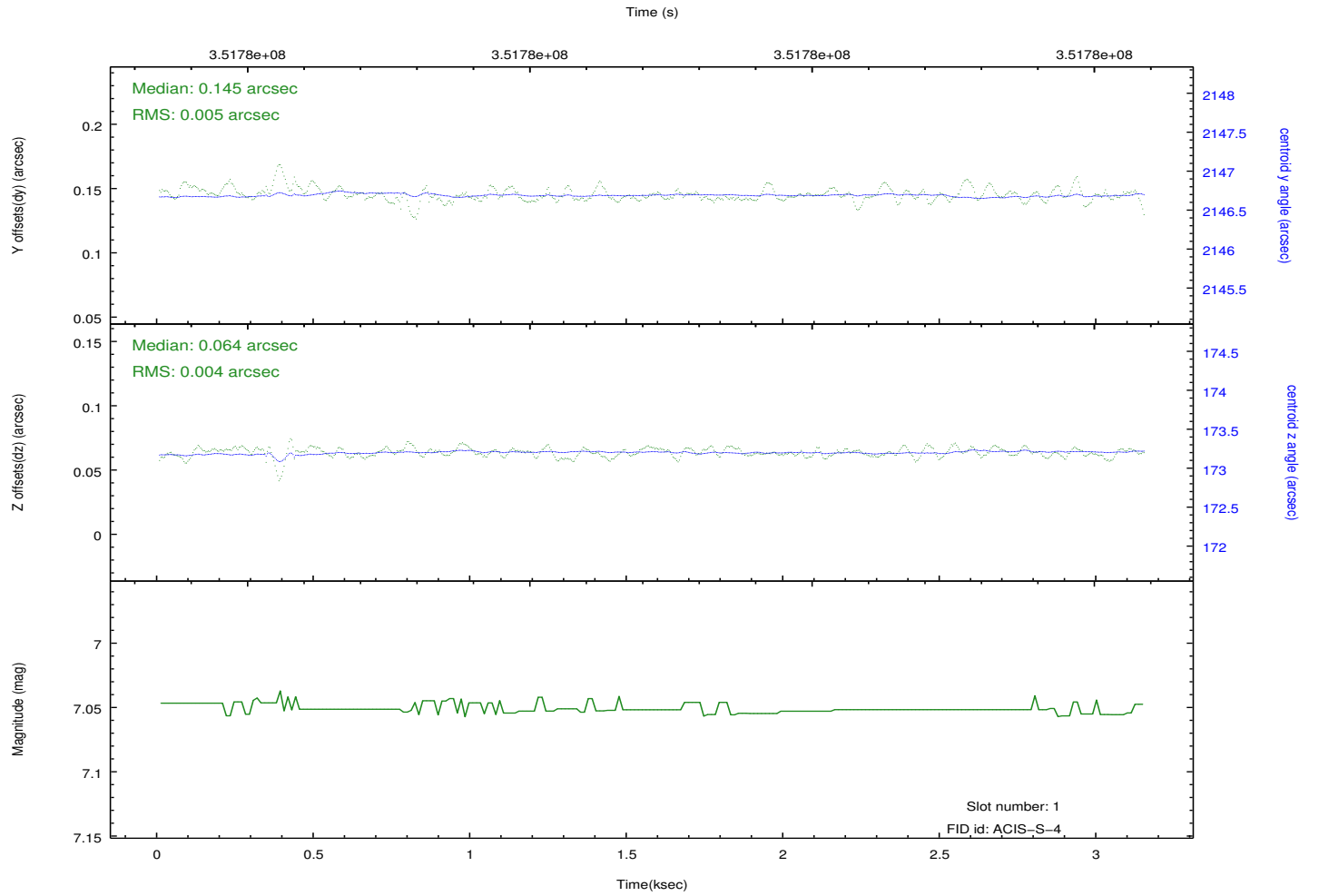
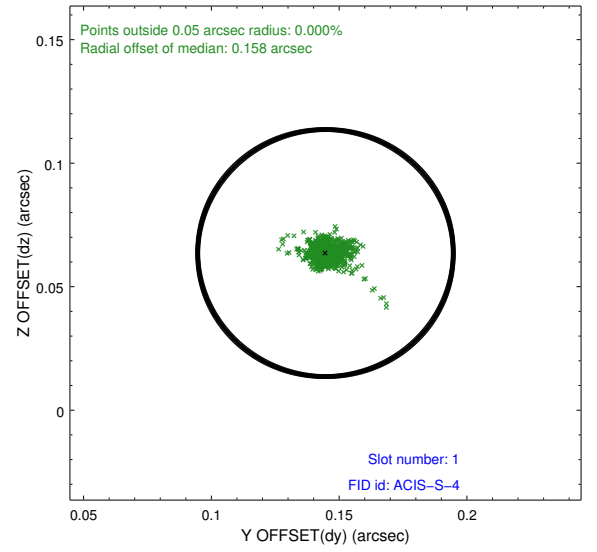
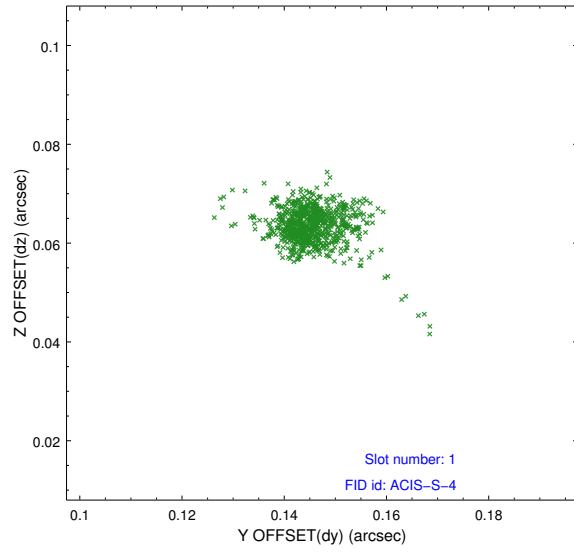


## 2.5 FID Slots

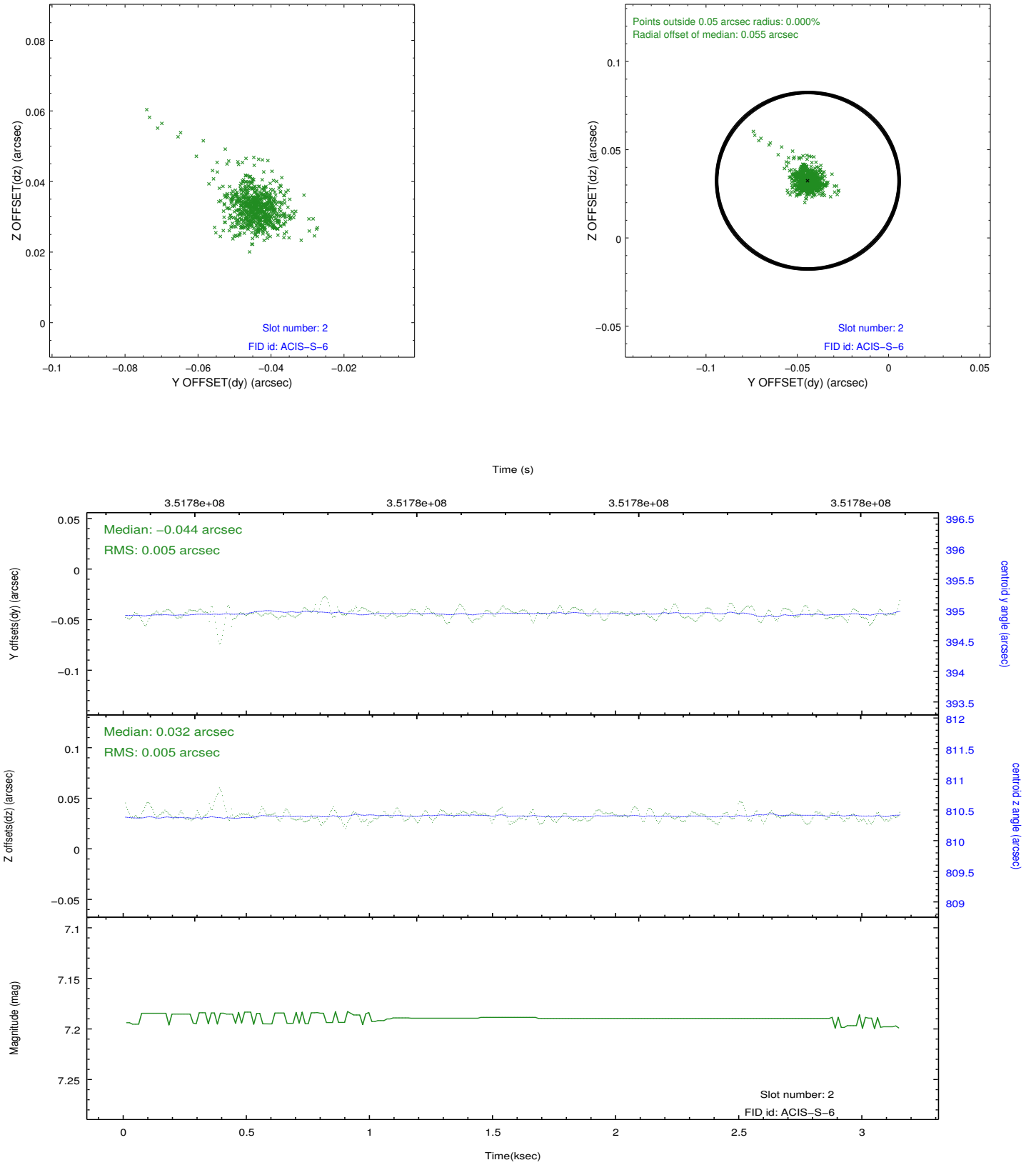
### 2.5.1 Slot 0



## 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)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.142

### A.2 Comments