

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7907 - L2 Version 2  
Chandra X-Ray Center

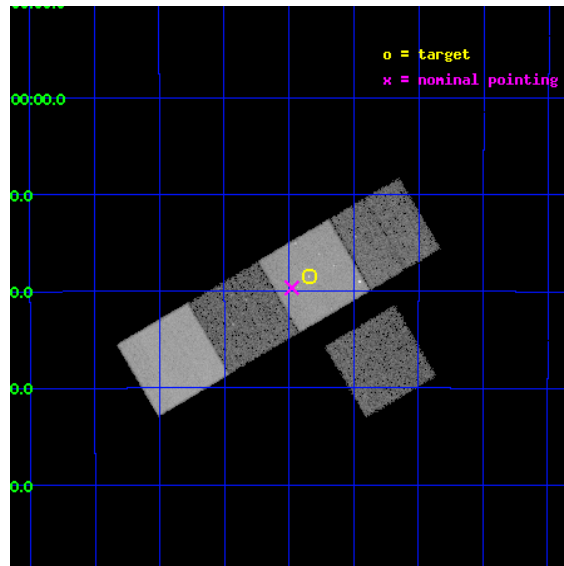
L2 Processing Date : Apr 30 2012

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# 1 Front

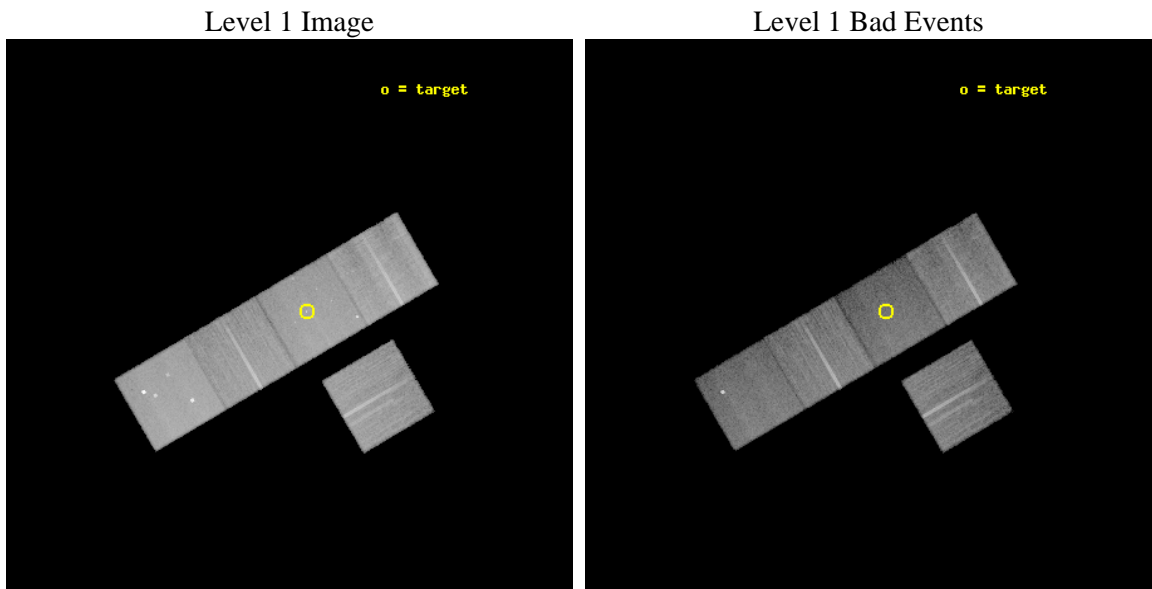
seq_num	800625	Sequence number
obs_id	7907	Observation id
title	IGM in galaxy groups with dominant elliptical galaxy; optically selected fossils	Proposal title
observer	Dr Habib Khosroshahi	Principal investigator
object	Group ID 2515	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.08625	Observer's specified target RA [deg]
dec_targ	-25.308056	Observer's specified target Dec [deg]
ra_nom	333.11946202892	Nominal RA [deg]
dec_nom	-25.327618969155	Nominal Dec [deg]
roll_nom	329.60740597239	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20171.65917486	Sum of GTIs [s]
livetime	19908.101597581	Livetime [s]
ontime3	20174.800155163	Sum of GTIs [s]
ontime5	20174.800155163	Sum of GTIs [s]
ontime6	20168.518184662	Sum of GTIs [s]
ontime7	20171.65917486	Sum of GTIs [s]
ontime8	20171.65917486	Sum of GTIs [s]
l2events	233731	Number of level 2 events



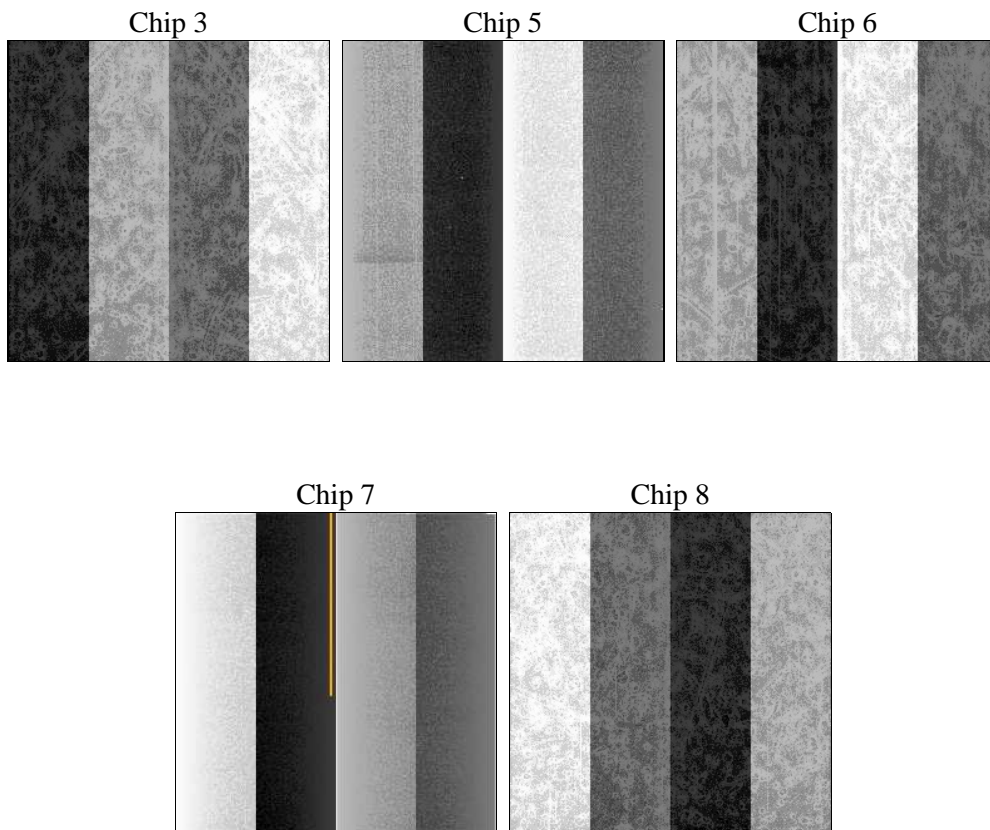
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20171.65917486	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime3	20174.800155163	Sum of GTIs [s]
date	2012-04-30T13:34:58	Date and time of file creation	ontime5	20174.800155163	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20168.518184662	Sum of GTIs [s]
			ontime7	20171.65917486	Sum of GTIs [s]
			ontime8	20171.65917486	Sum of GTIs [s]
			l1events	963902	Number of level 1 events

### 2.1.4 Events

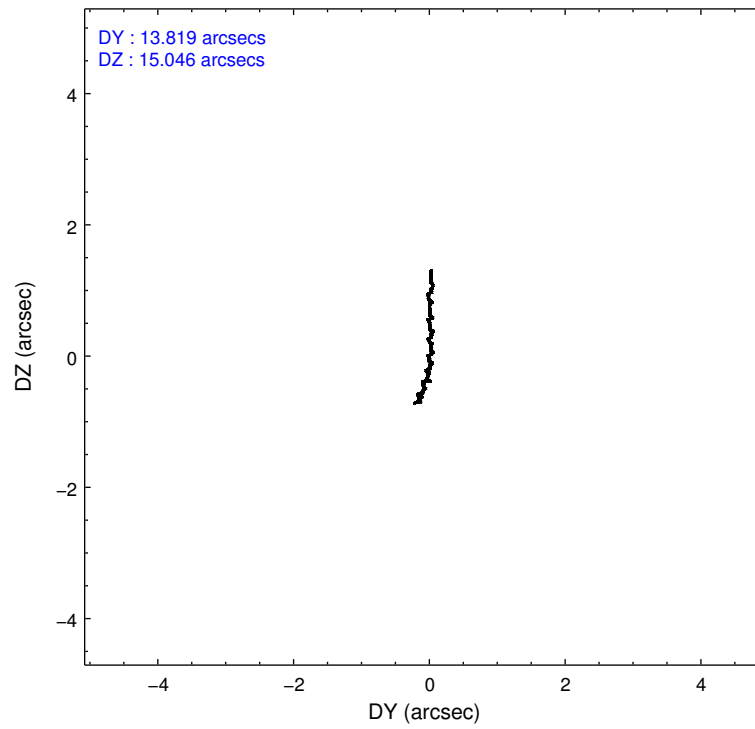
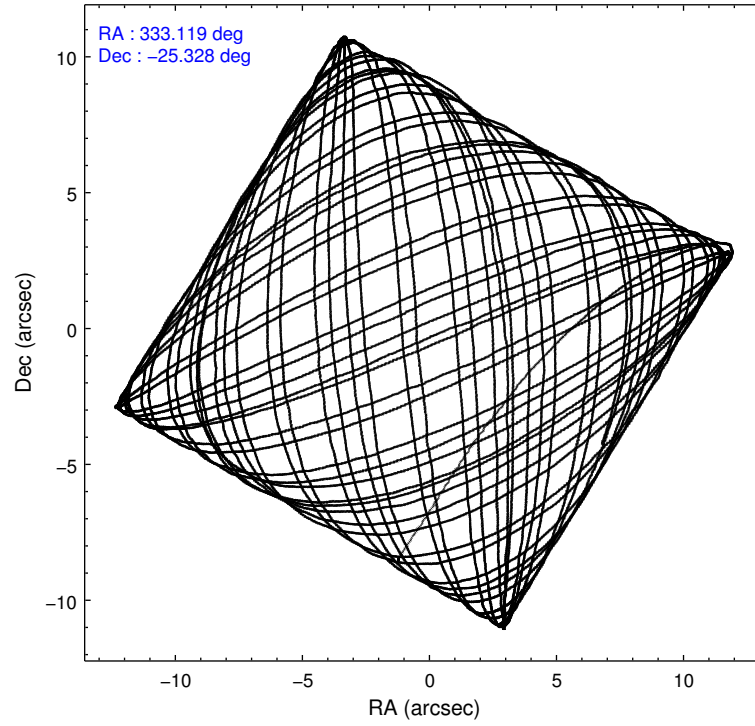
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	164303	236849	169793	186653	206304
rejected events	149381	118223	152903	100930	156363
rejected %	90%	49%	90%	54%	75%

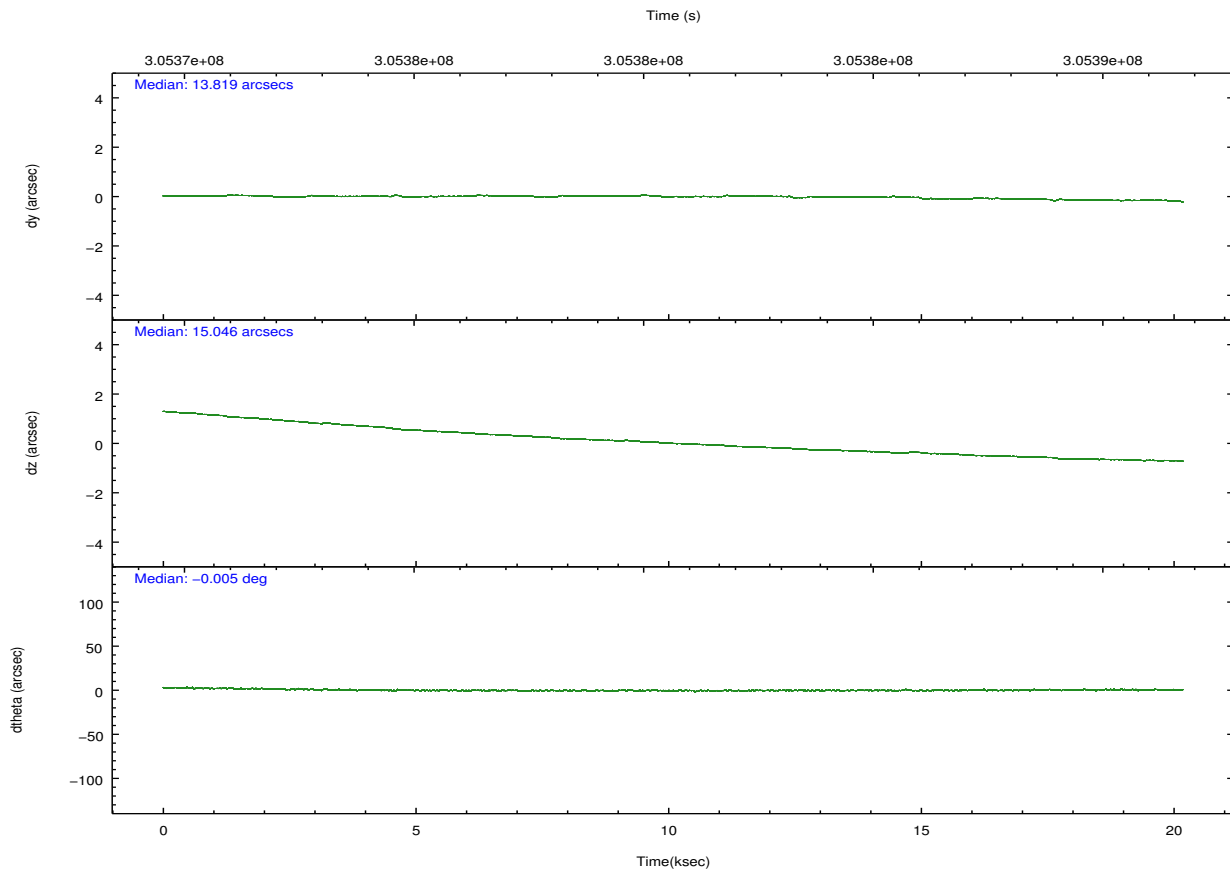
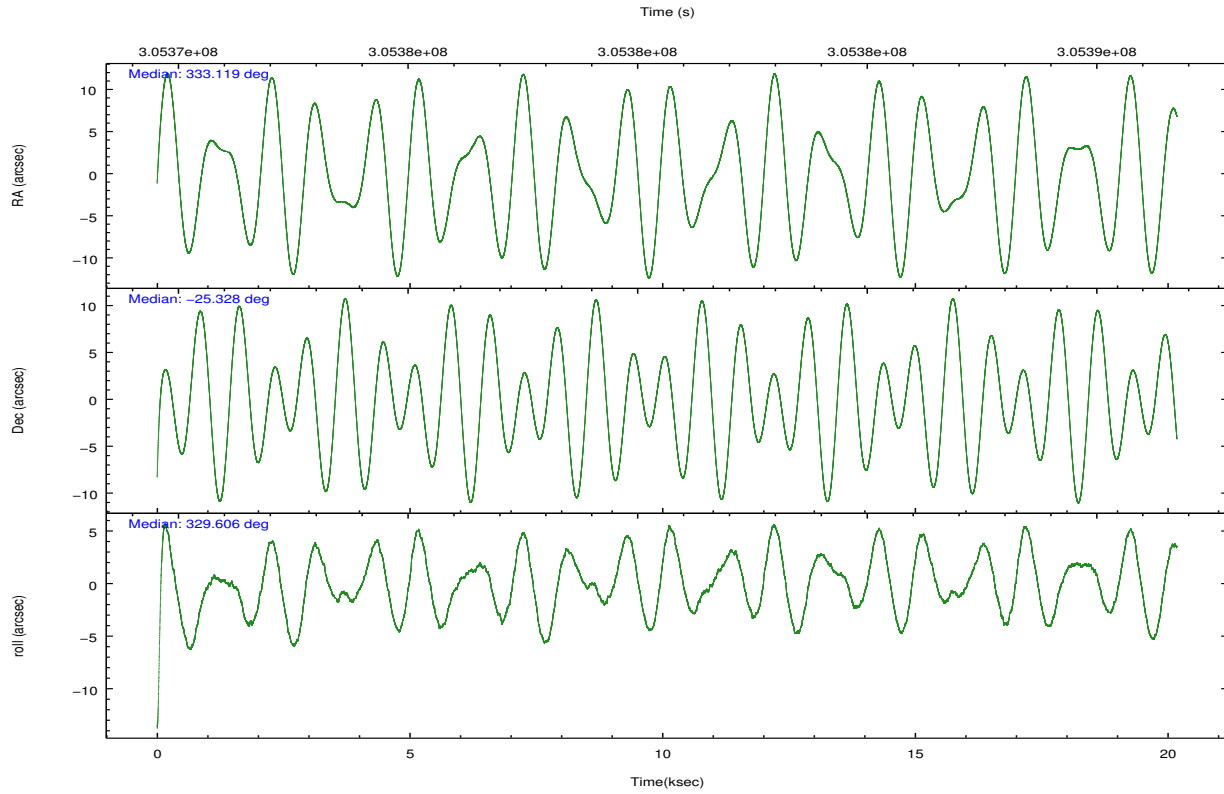
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5326	17199	5996	9051	15412
	3%	7%	3%	4%	7%
grade 1 events	93	682	88	251	171
	0%	0%	0%	0%	0%
grade 2 events	3274	34400	3668	17541	11243
	1%	14%	2%	9%	5%
grade 3 events	1798	5098	1869	7943	5574
	1%	2%	1%	4%	2%
grade 4 events	1685	4652	1806	8043	5221
	1%	1%	1%	4%	2%
grade 5 events	6471	19198	6800	19376	9630
	3%	8%	4%	10%	4%
grade 6 events	3031	58705	3758	44140	12965
	1%	24%	2%	23%	6%
grade 7 events	142625	96915	145808	80308	146088
	86%	40%	85%	43%	70%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	333.089190	333.1194620289152	CCD I2 on	N	N
[deg] Pointing Dec	-25.327822	-25.32761896915547	CCD I3 on	O1	Y
[deg] Pointing Roll	329.437834	329.6074059723908	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	O2	Y
[s] Observation start time (MET)	305370736.184000	305369620.19994	CCD S5 on	N	N
Observation start date	2007-09-05T09:11:11	2007-09-05T08:53:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	305390736.184000	305391775.57601	On-chip summing requested	N	N
Observation end date	2007-09-05T14:44:31	2007-09-05T15:02:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



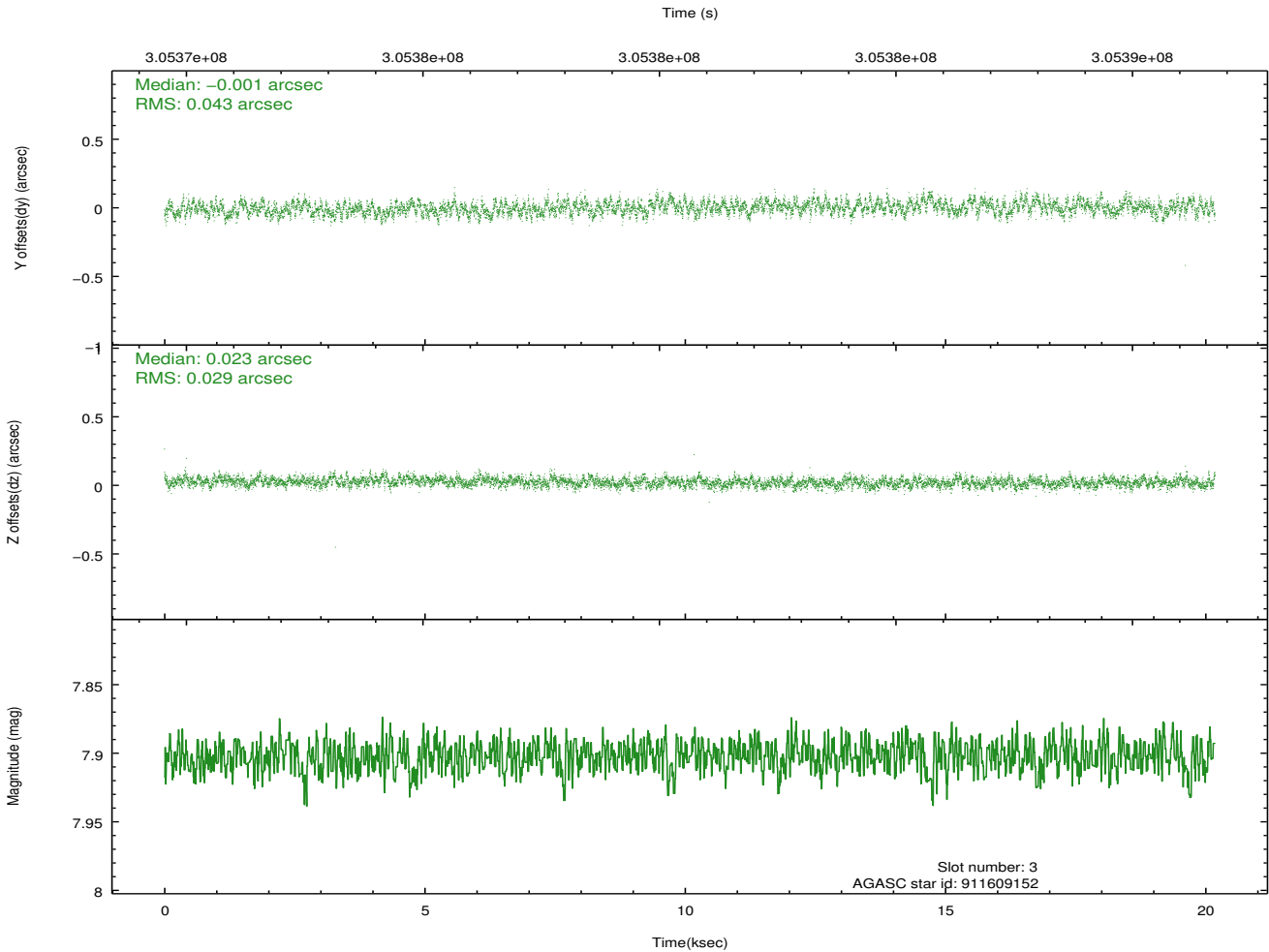
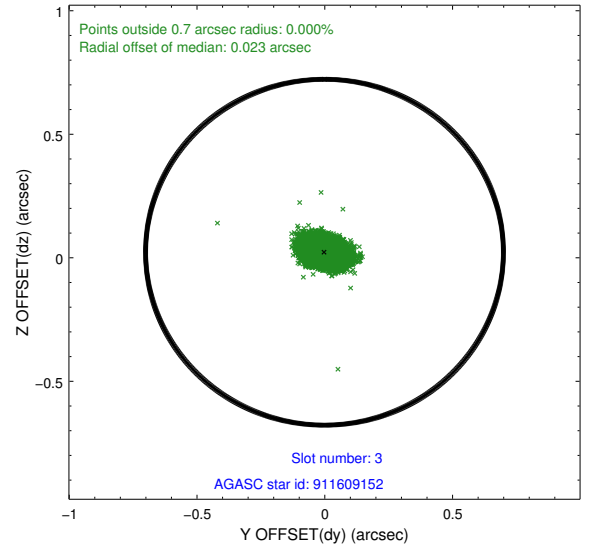
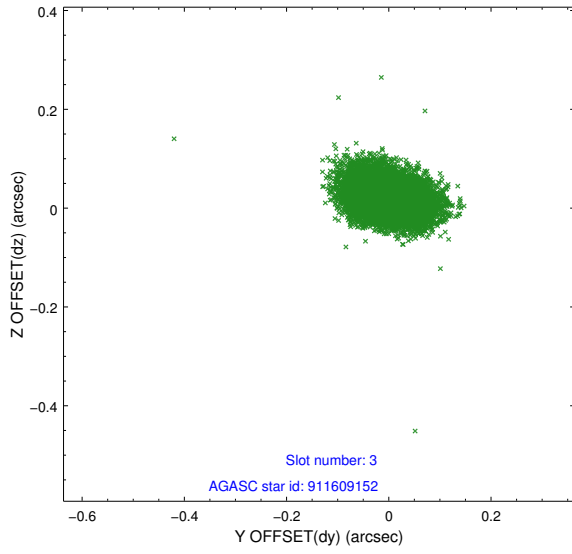


### Slot Statistics

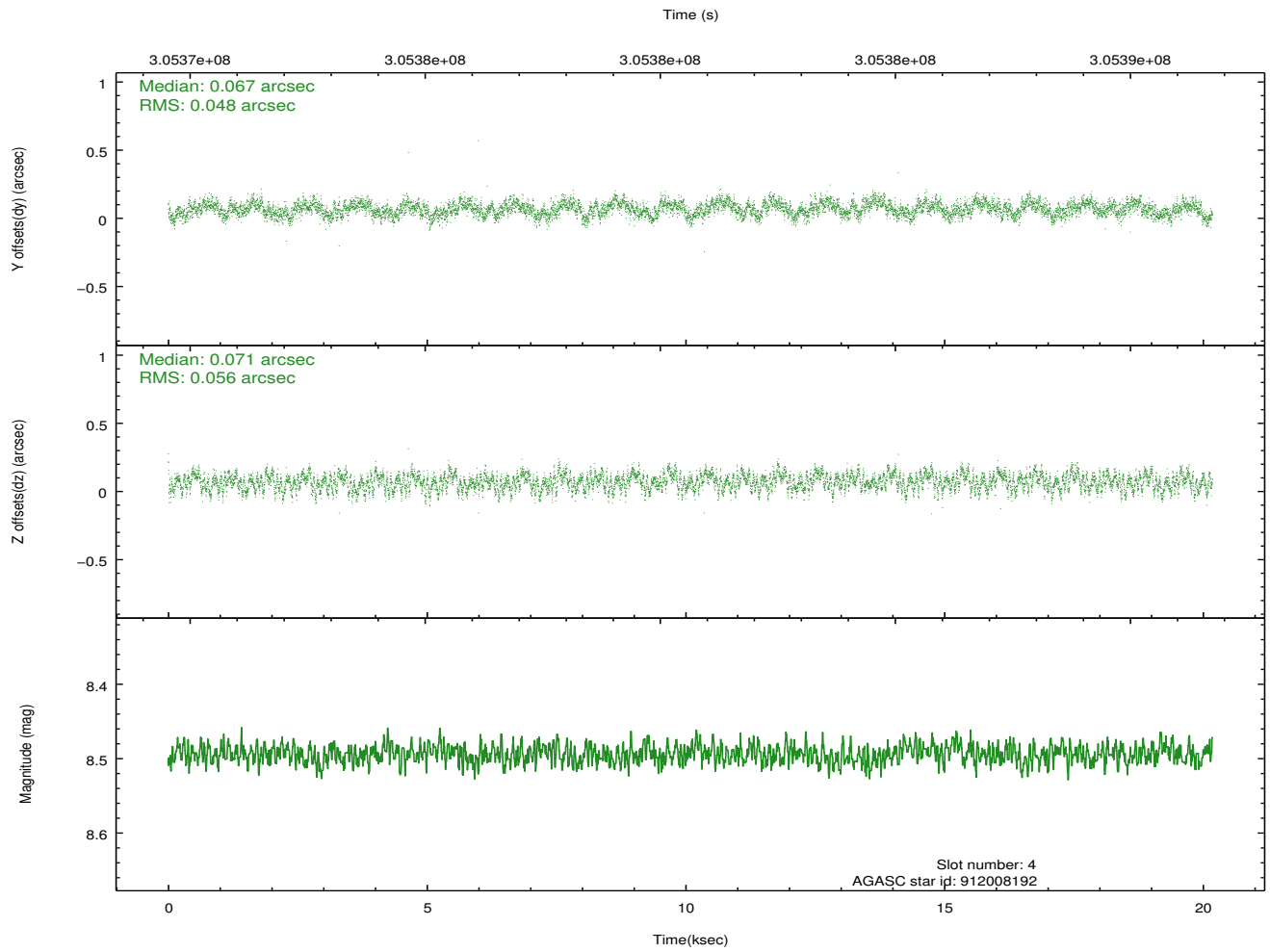
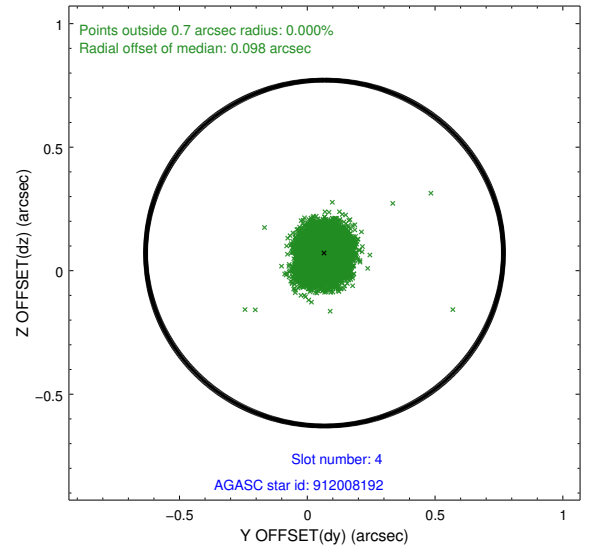
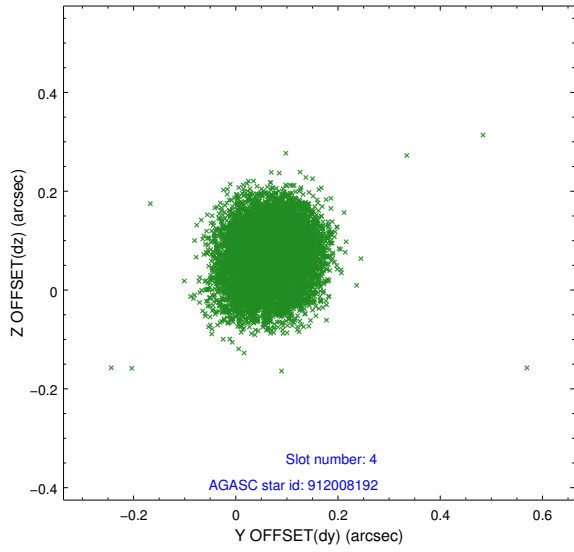
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	4921	-0.066	-0.037	0.010	0.021	0.000000	0.000000	-766.78	-1736.57
1	FID	ACIS-S-4	7.19	4921	0.204	0.042	0.012	0.019	0.000000	0.000000	2146.67	171.83
2	FID	ACIS-S-5	7.22	4921	-0.168	0.004	0.014	0.022	0.000000	0.000000	-1819.51	165.63
3	GUIDE	911609152	7.90	9843	-0.001	0.023	0.054	0.090	332.728888	-24.714318	-2136.48	1301.16
4	GUIDE	912008192	8.49	9840	0.067	0.071	0.079	0.123	332.795514	-25.369864	-745.09	-616.75
5	GUIDE	912009136	8.59	9842	-0.073	0.010	0.061	0.099	333.894738	-25.248823	2117.89	1571.87
6	GUIDE	912011520	9.25	9834	0.136	0.018	0.104	0.159	332.654645	-25.555541	-796.75	-1425.46
7	GUIDE	912006008	7.91	9842	-0.131	-0.120	0.048	0.079	333.738308	-25.615826	2344.11	174.08

## 2.4 Star Slots

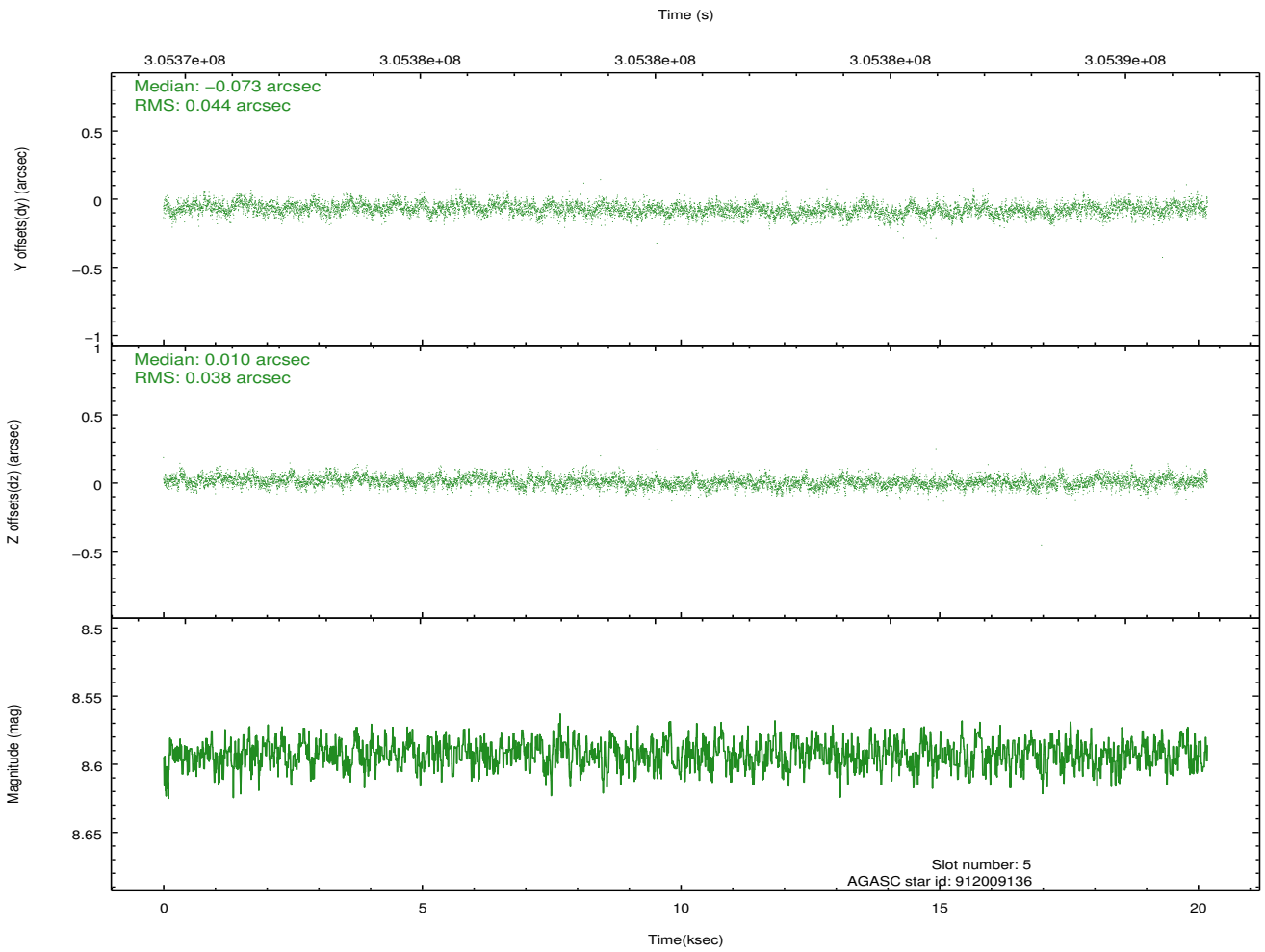
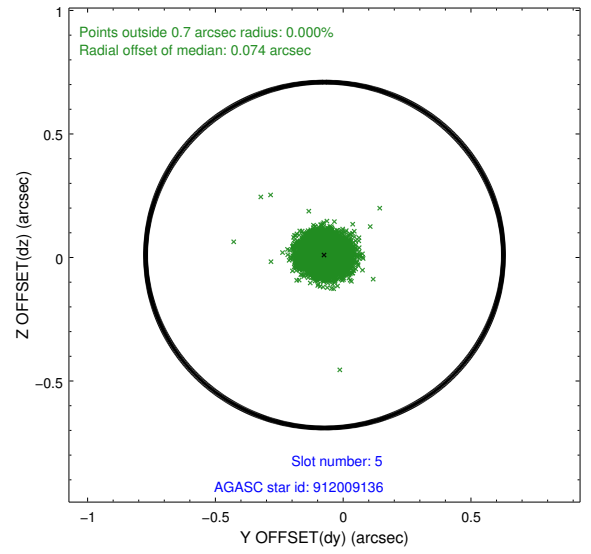
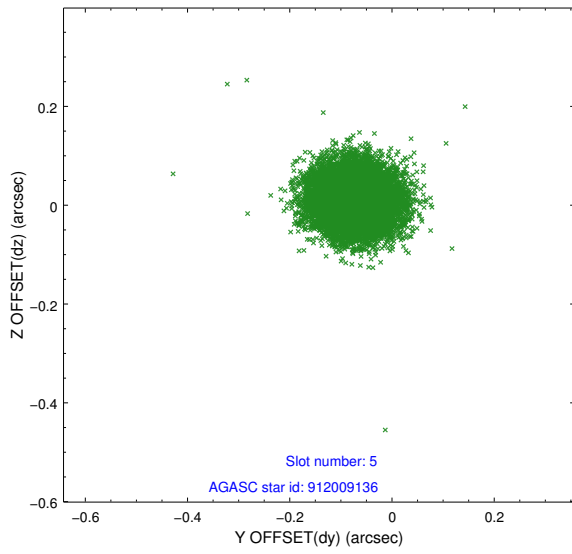
### 2.4.1 Slot 3



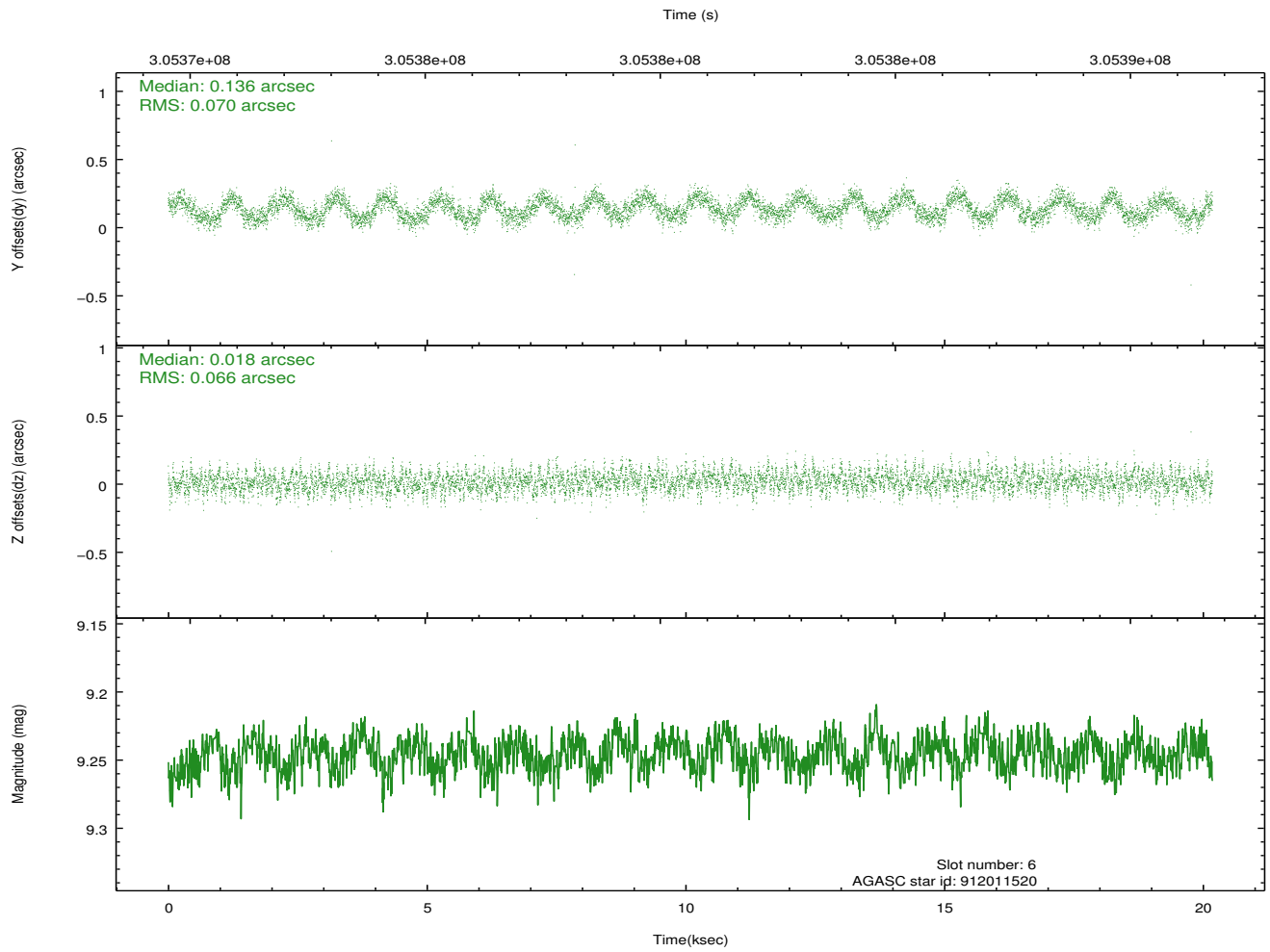
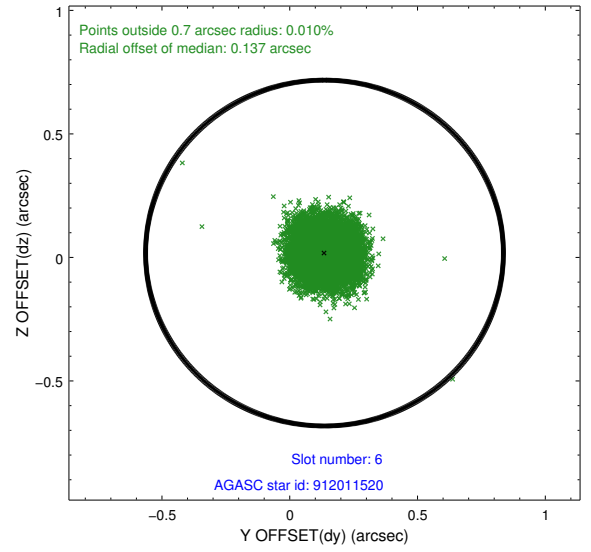
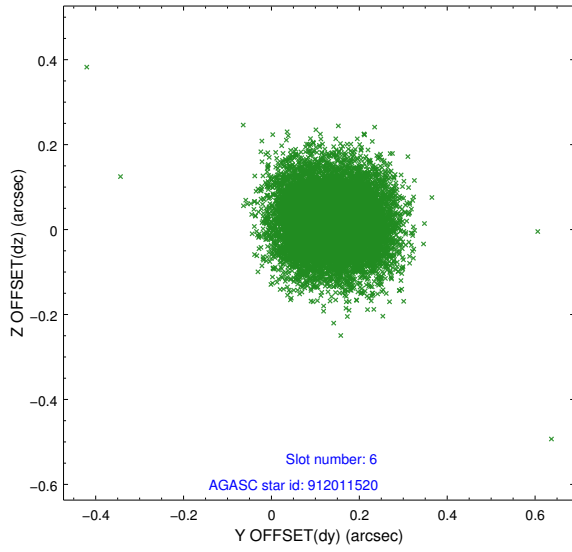
### 2.4.2 Slot 4



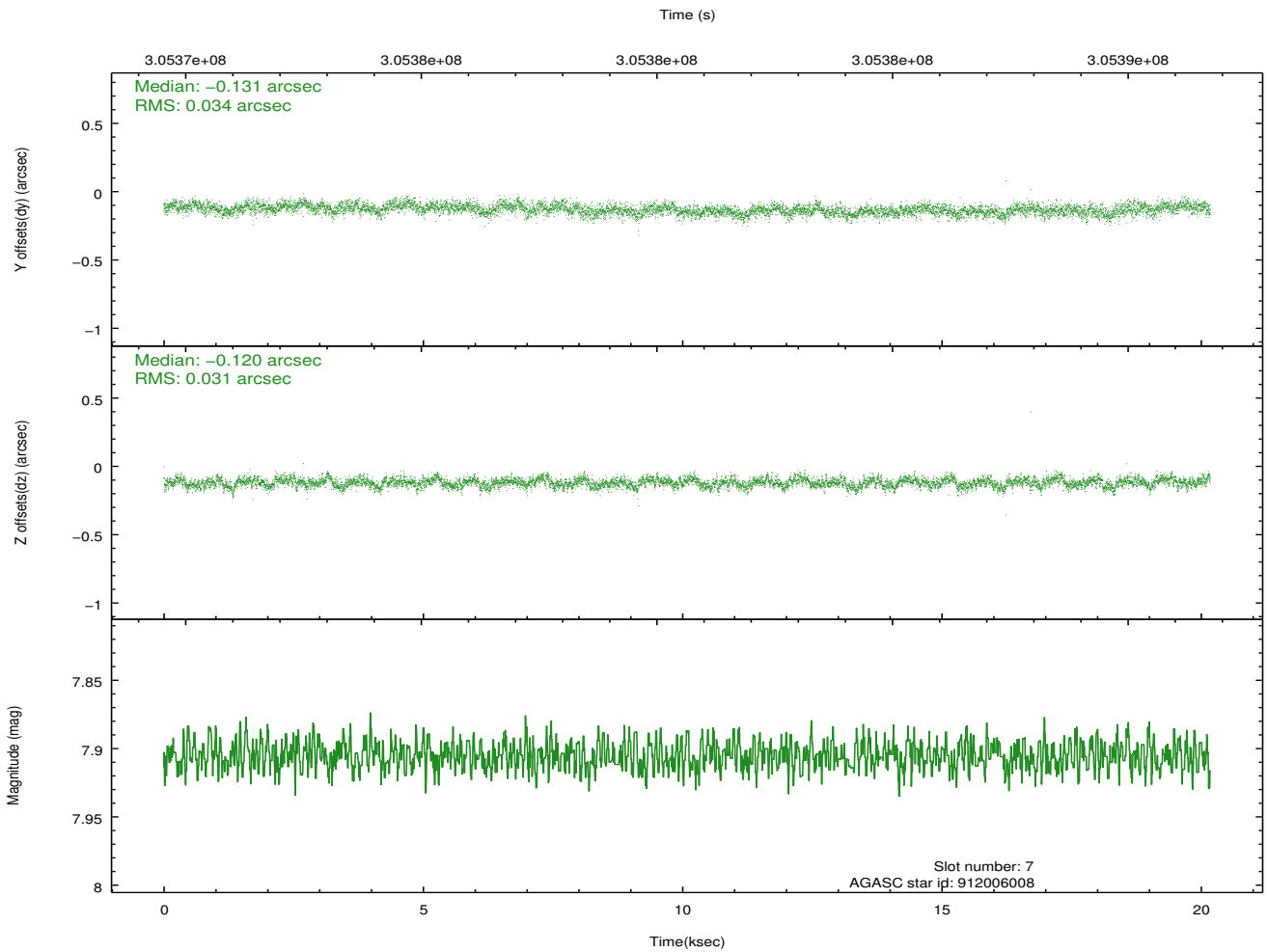
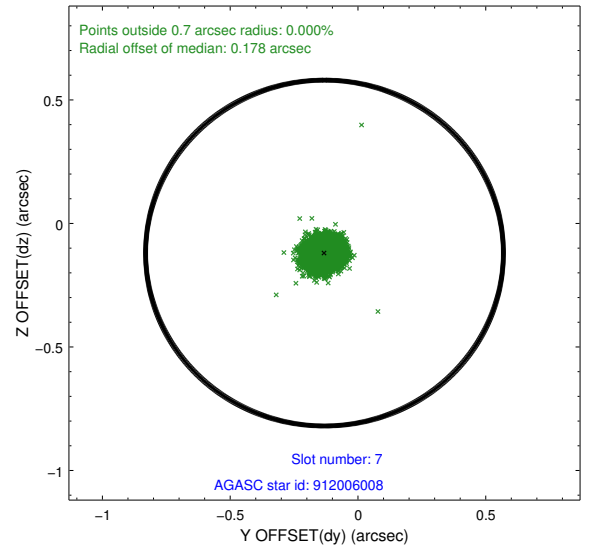
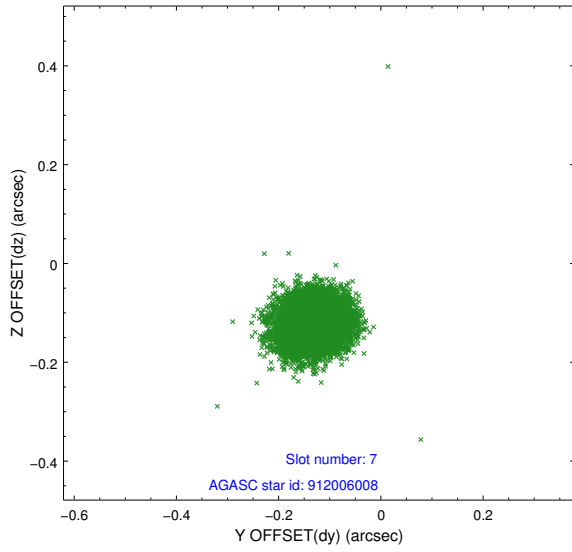
### 2.4.3 Slot 5



### 2.4.4 Slot 6

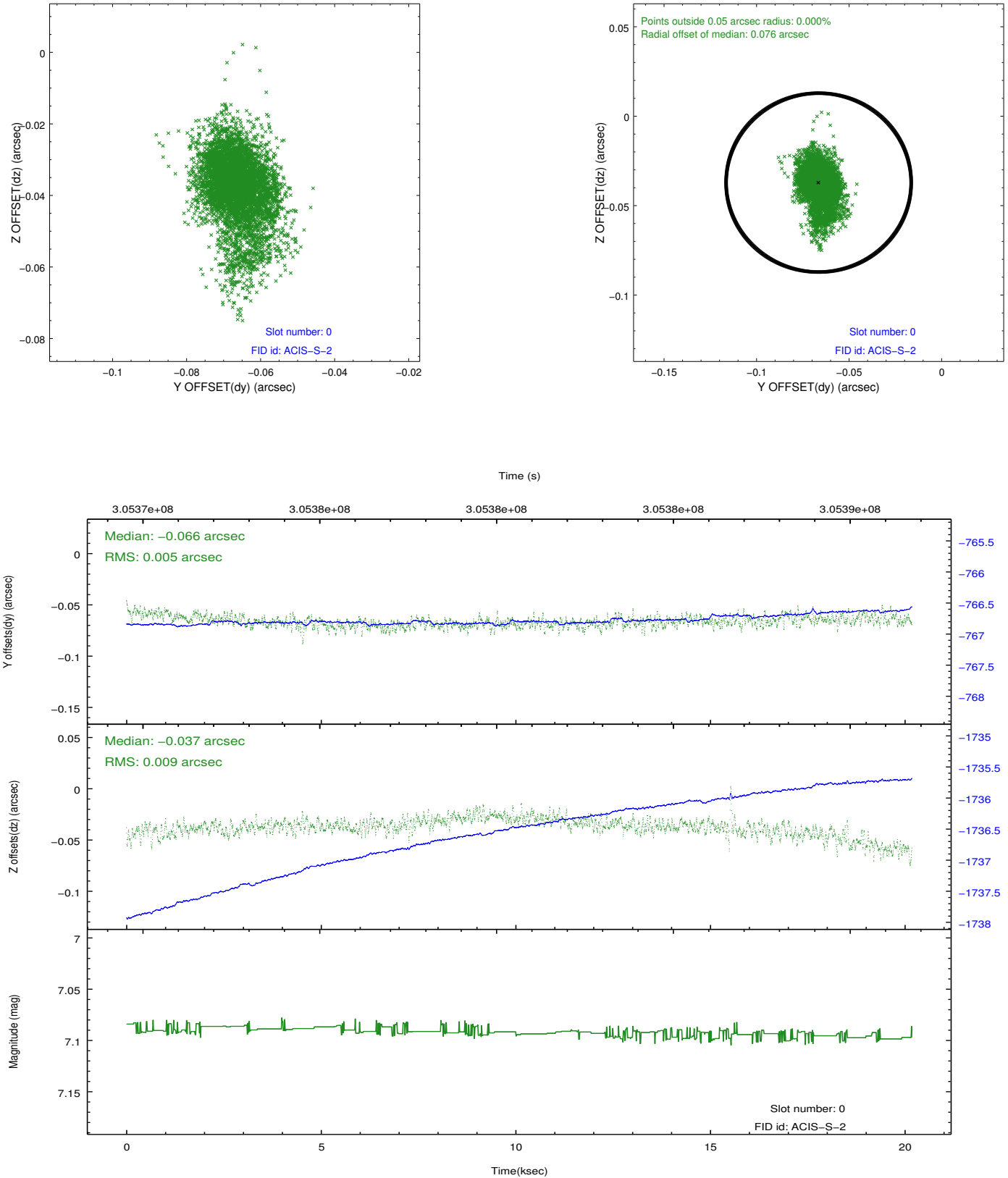


### 2.4.5 Slot 7

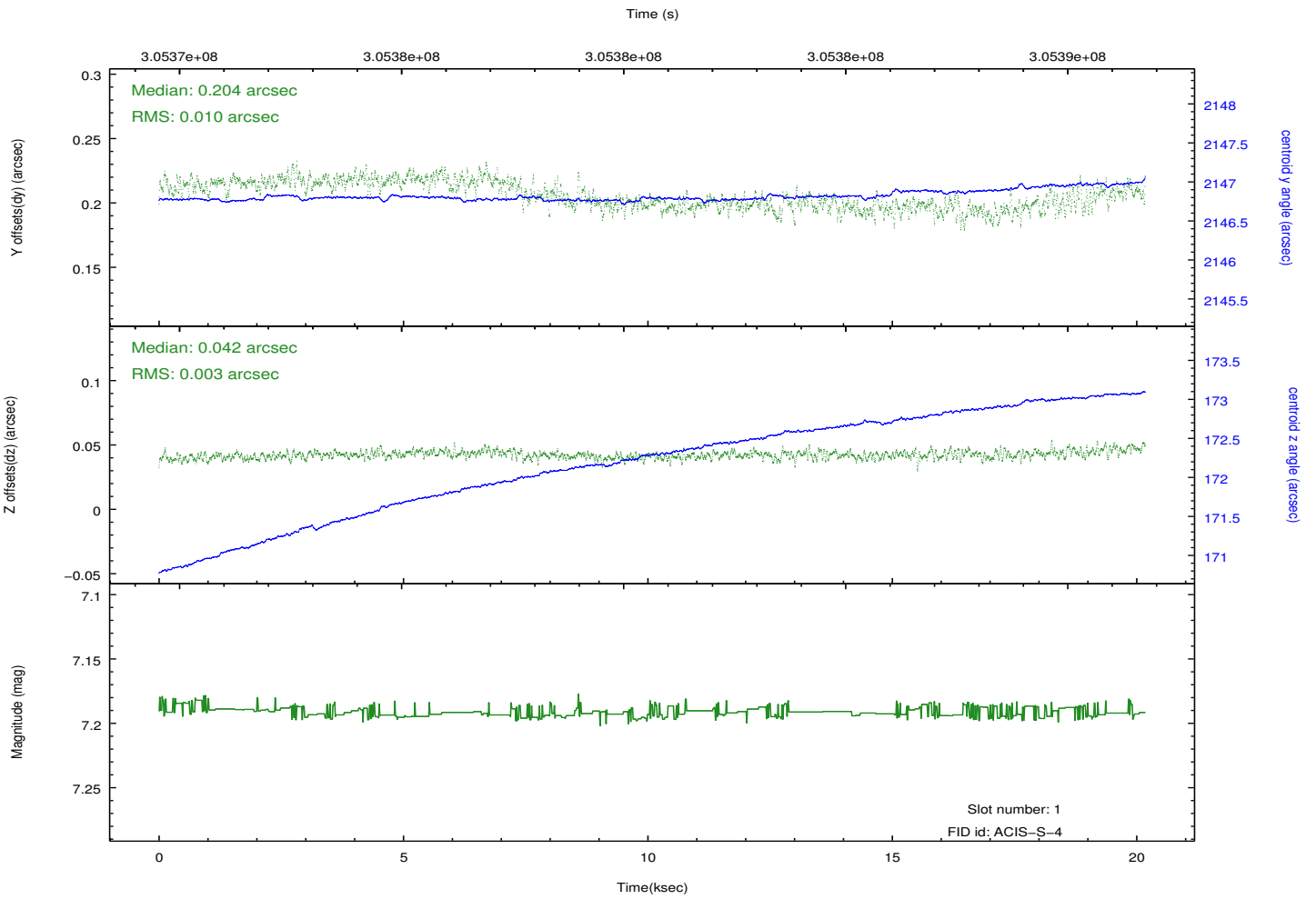
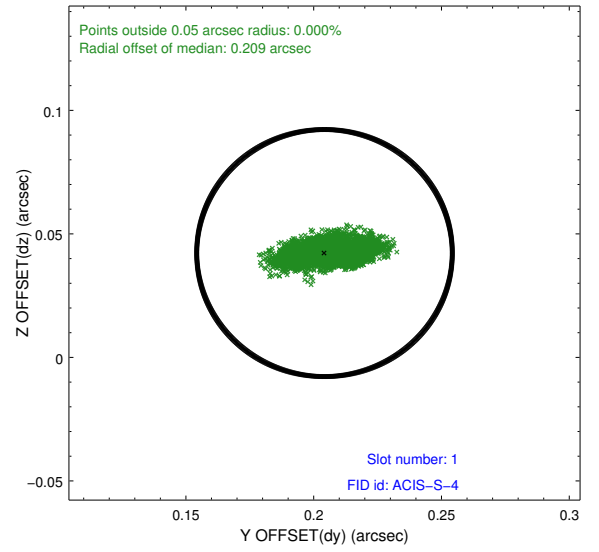
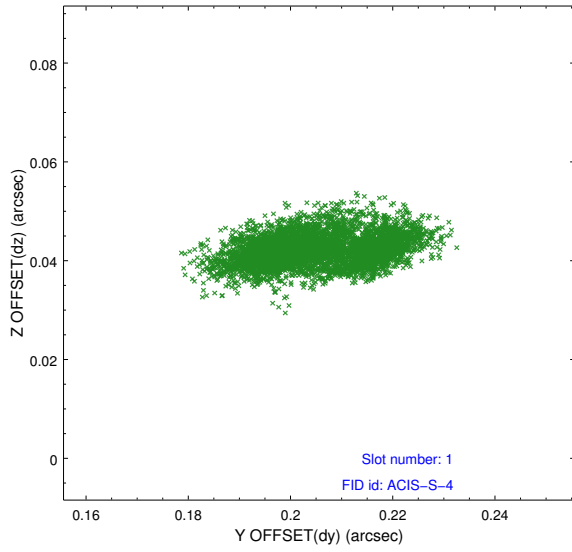


## 2.5 FID Slots

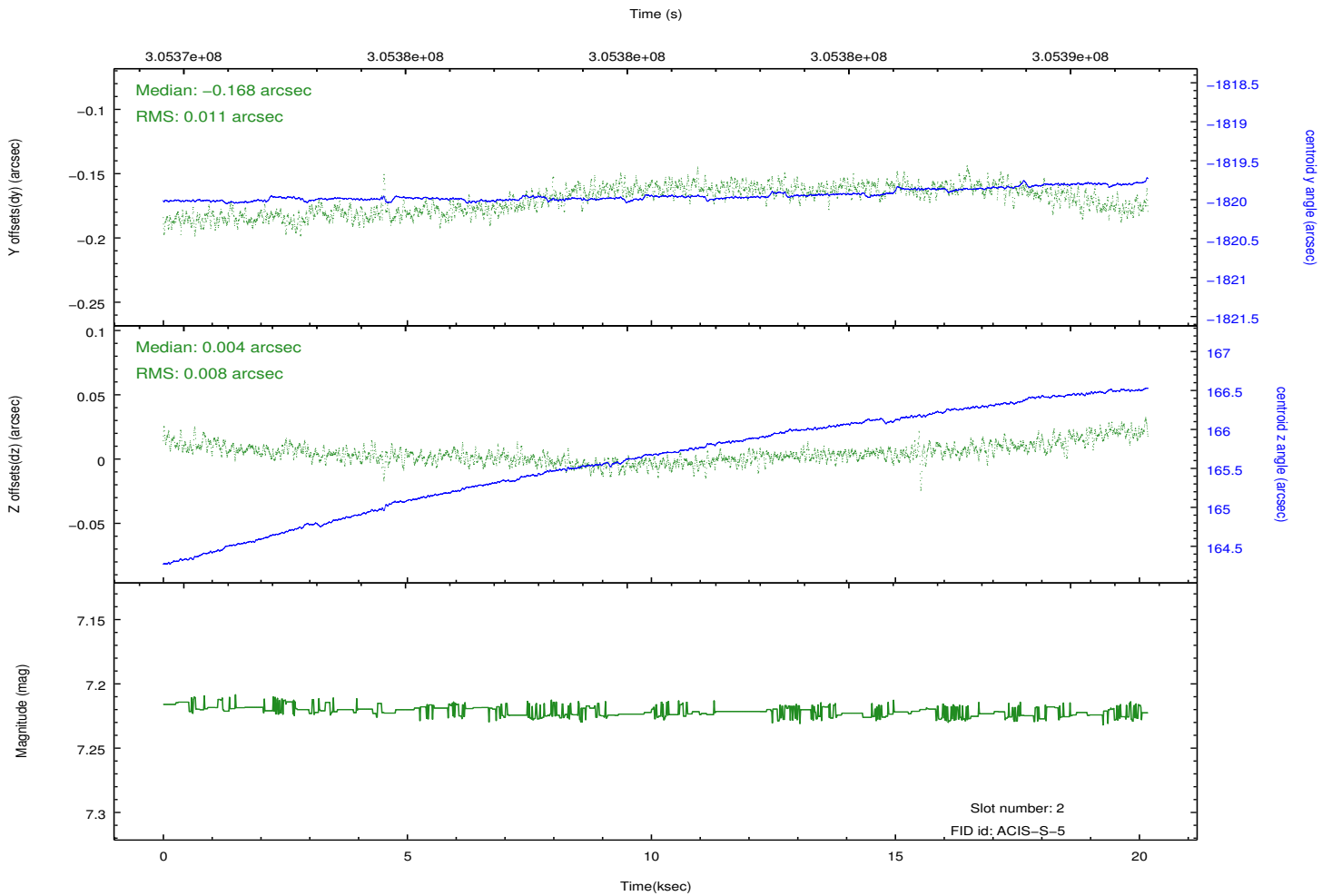
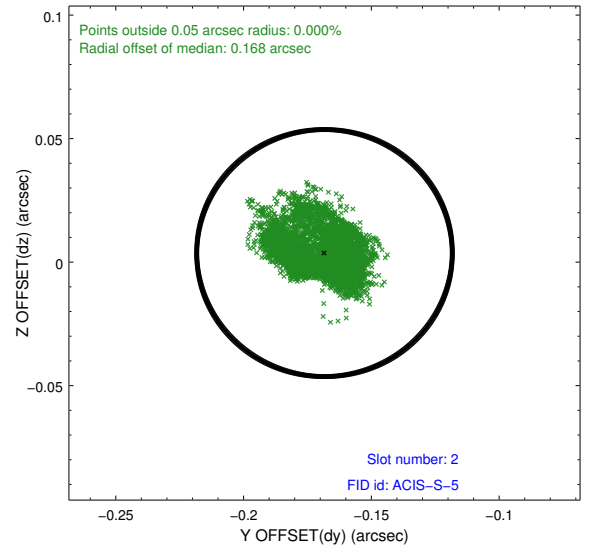
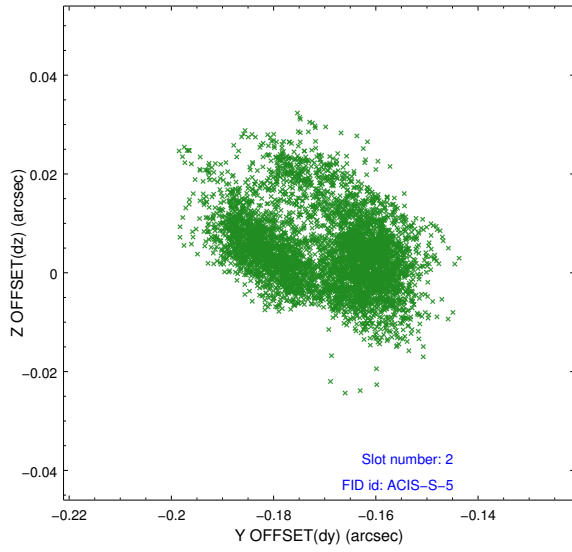
### 2.5.1 Slot 0



## 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)	2012.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1716591

### A.2 Comments