

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19391 - L2 Version 1
Chandra X-Ray Center

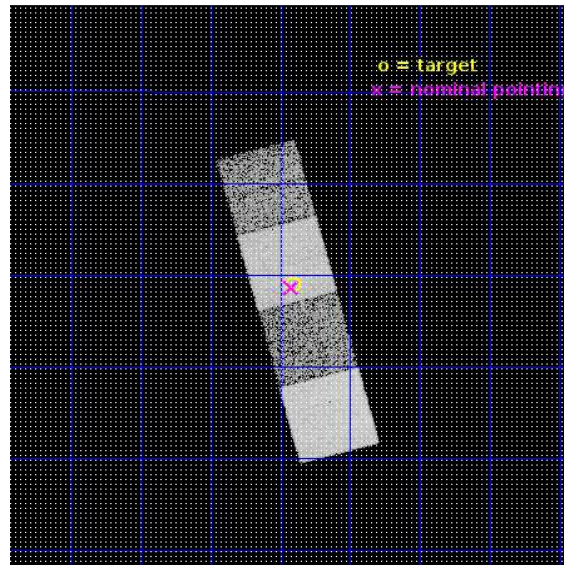
L2 Processing Date : Jul 25 2017

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1 Front

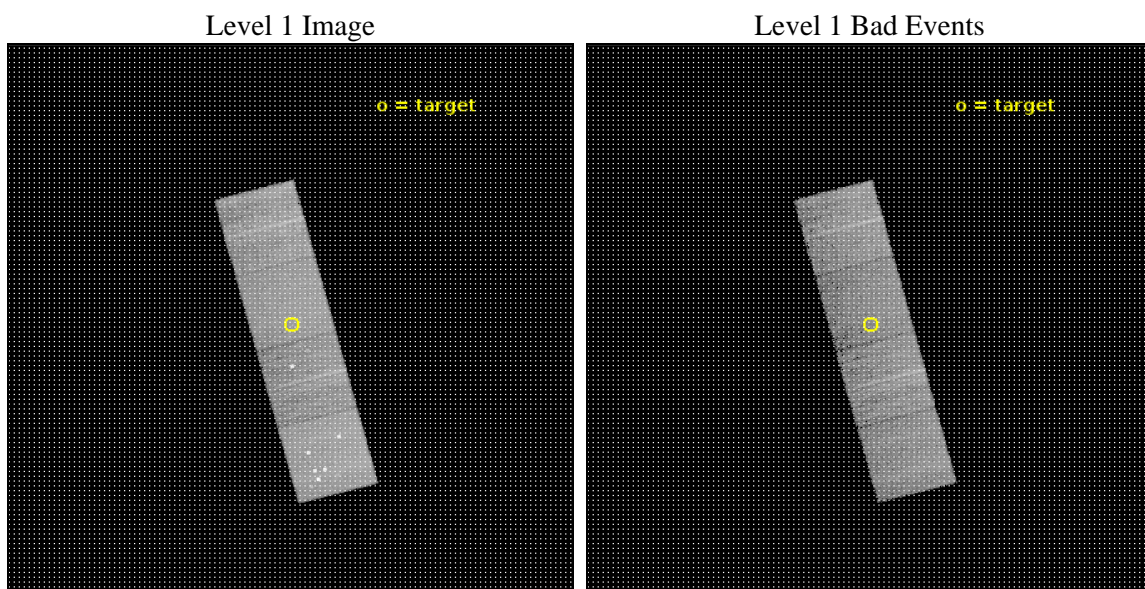
seq_num	601348	Sequence number
obs_id	19391	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4216	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.976667	Observer's specified target RA [deg]
dec_targ	13.149389	Observer's specified target Dec [deg]
ra_nom	183.98012413387	Nominal RA [deg]
dec_nom	13.143748614121	Nominal Dec [deg]
roll_nom	255.011469911	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9661.9444693327	Sum of GTIs [s]
livetime	9535.7040518208	Livetime [s]
ontime5	9661.903429389	Sum of GTIs [s]
ontime6	9661.8623893261	Sum of GTIs [s]
ontime7	9661.9444693327	Sum of GTIs [s]
ontime8	9658.6803491116	Sum of GTIs [s]
l2events	97573	Number of level 2 events



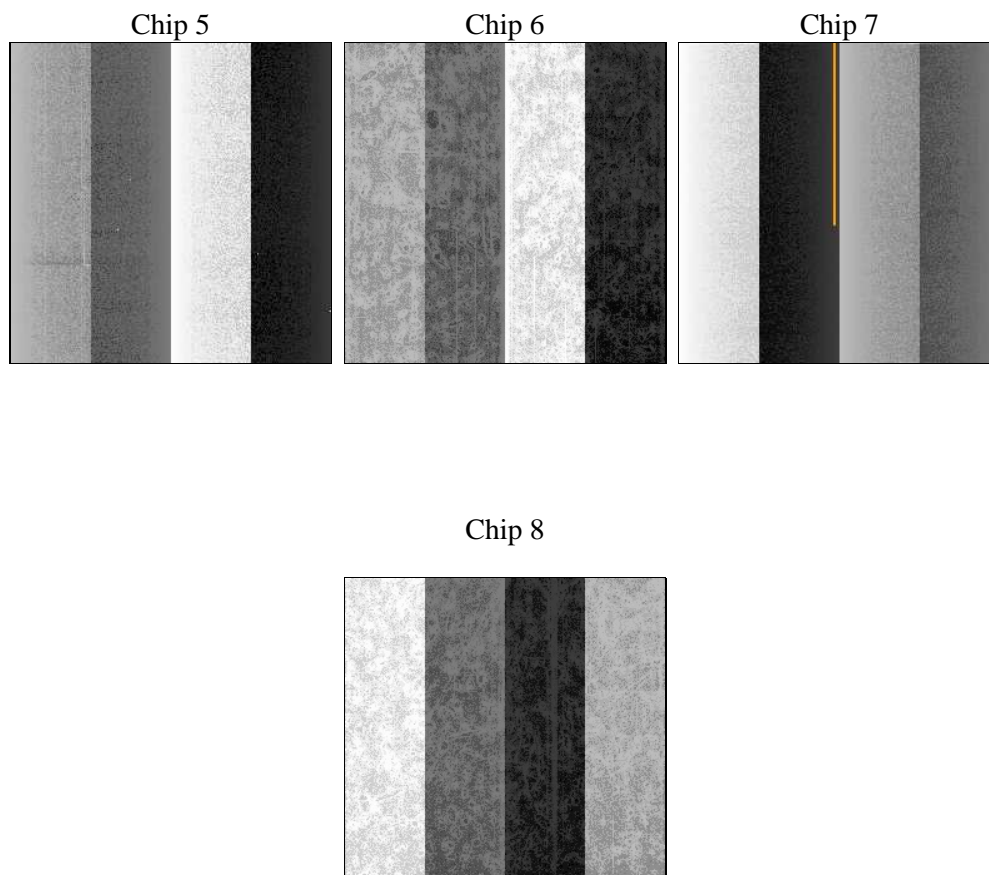
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9601.483000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	9661.9444693327	Sum of GTIs [s]
caldsver	4.7.5	 	ontime5	9661.903429389	Sum of GTIs [s]
date	2017-07-25T10:46:33	Date and time of file creation	ontime6	9661.8623893261	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	9661.9444693327	Sum of GTIs [s]
			ontime8	9658.6803491116	Sum of GTIs [s]
			l1events	366945	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	120469	72927	84912	88637
rejected events	54941	62116	48030	66810
rejected %	45%	85%	56%	75%

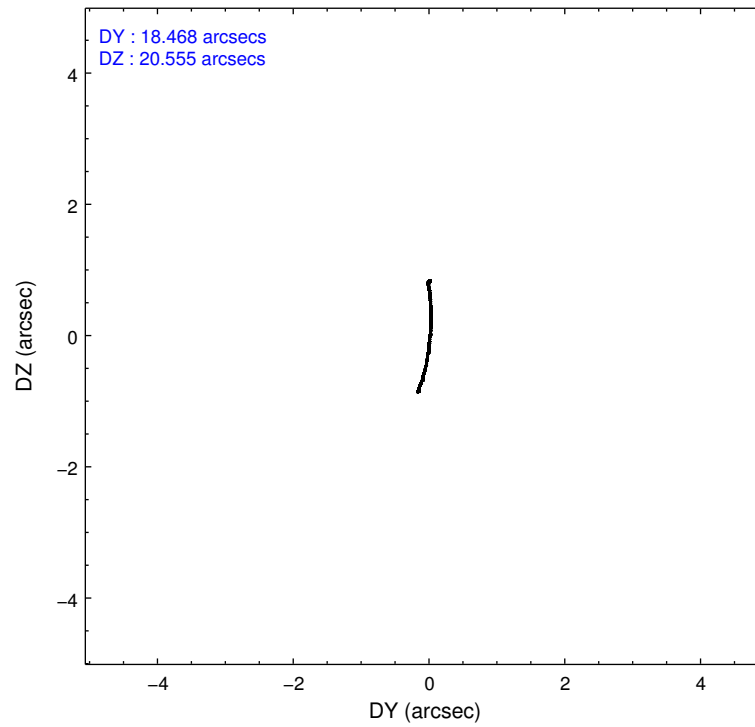
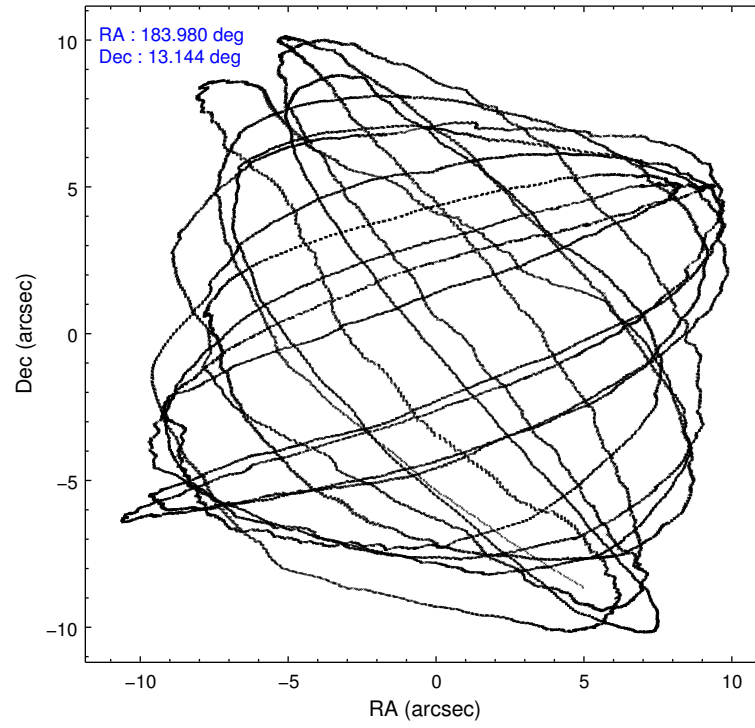
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16473	5381	3202	6279
	13%	7%	3%	7%
grade 1 events	324	42	117	67
	0%	0%	0%	0%
grade 2 events	17152	2138	7567	5163
	14%	2%	8%	5%
grade 3 events	2064	664	2985	2356
	1%	0%	3%	2%
grade 4 events	1698	700	2997	2122
	1%	0%	3%	2%
grade 5 events	6834	2908	8185	4591
	5%	3%	9%	5%
grade 6 events	28186	1933	20145	5911
	23%	2%	23%	6%
grade 7 events	47738	59161	39714	62148
	39%	81%	46%	70%

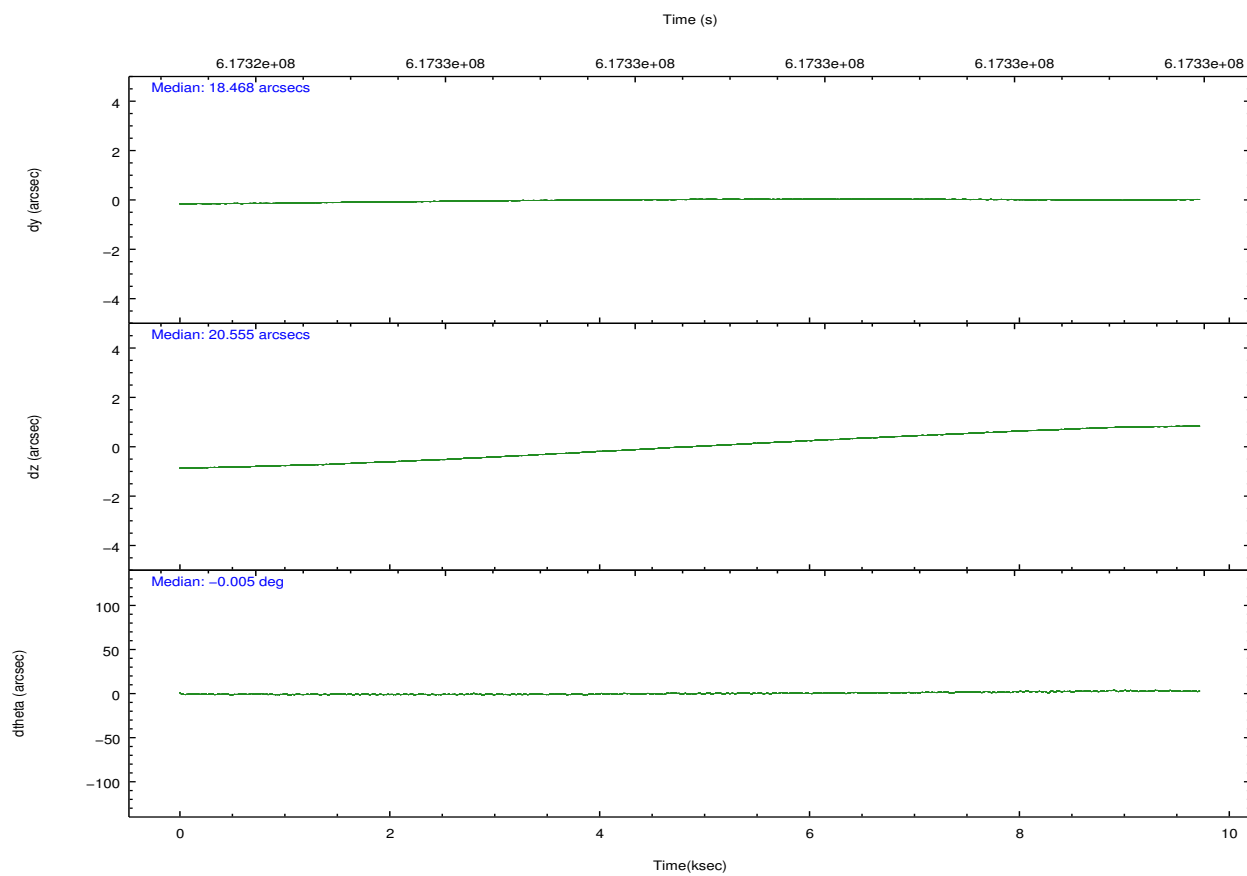
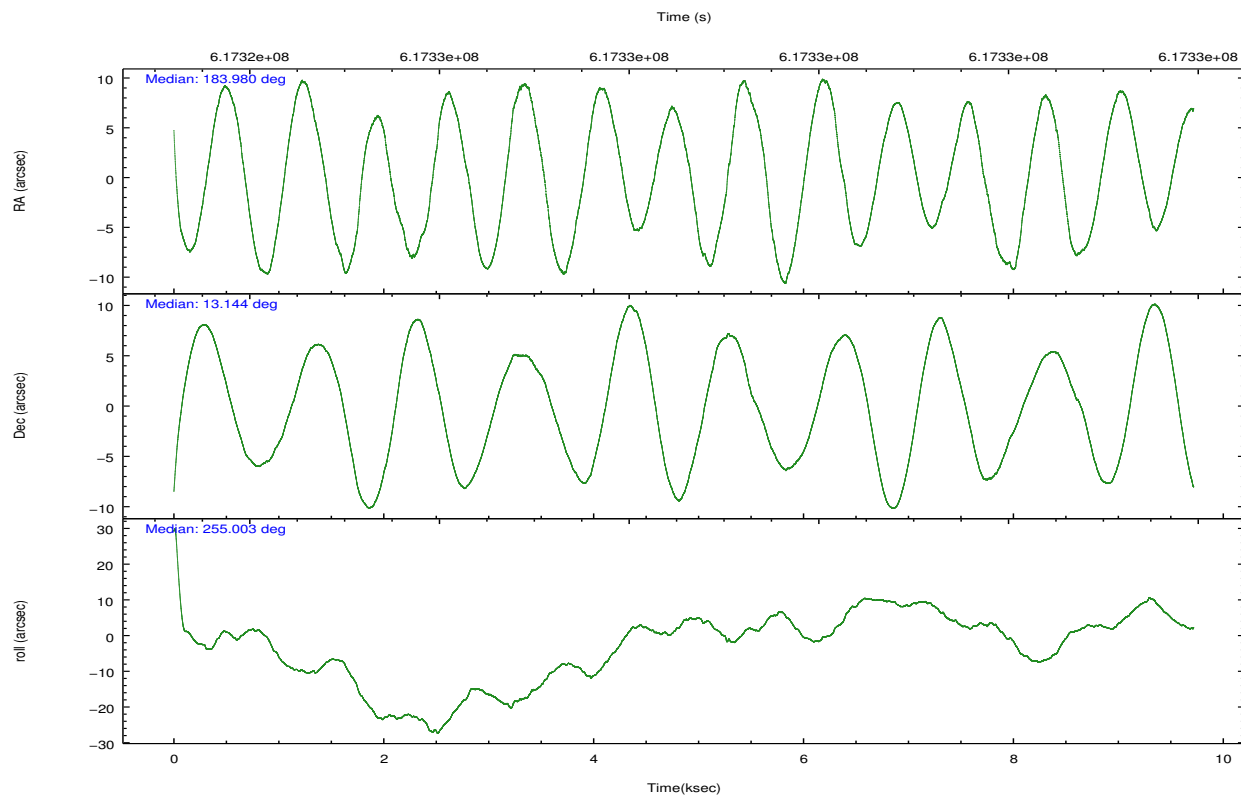
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	183.972437	183.9801241338711
[deg] Pointing Dec	13.170096	13.14374861412089
[deg] Pointing Roll	254.856542	255.0114699109998
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	617323833.184000	617322521.6919301
Observation start date	2017-07-24T22:49:24	2017-07-24T22:28:41
[s] Observation end time (MET)	617333435.184000	617333659.85508
Observation end date	2017-07-25T01:29:26	2017-07-25T01:34:19
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.1

2.3 Aspect



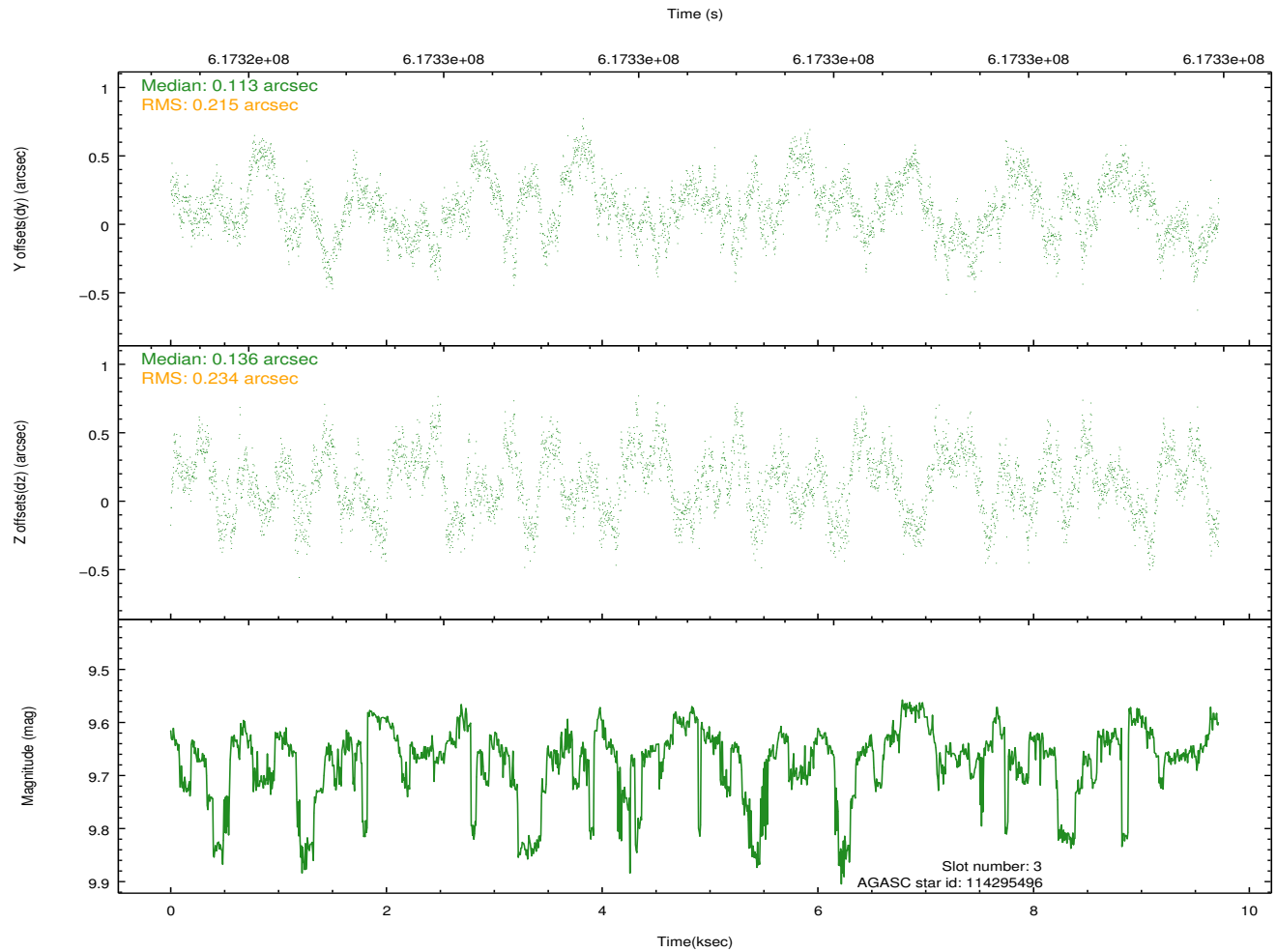
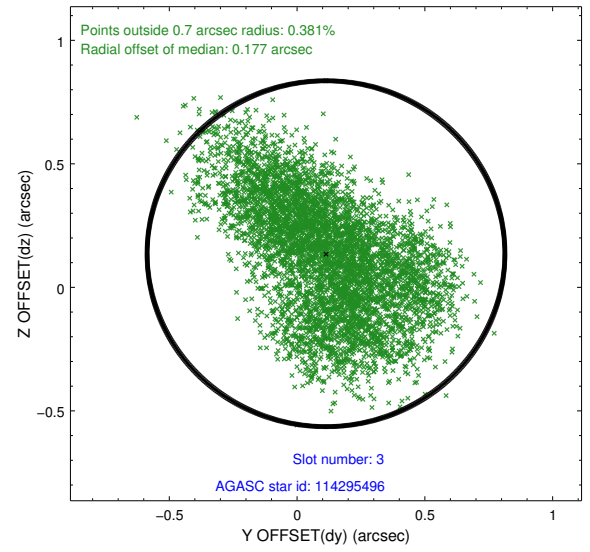
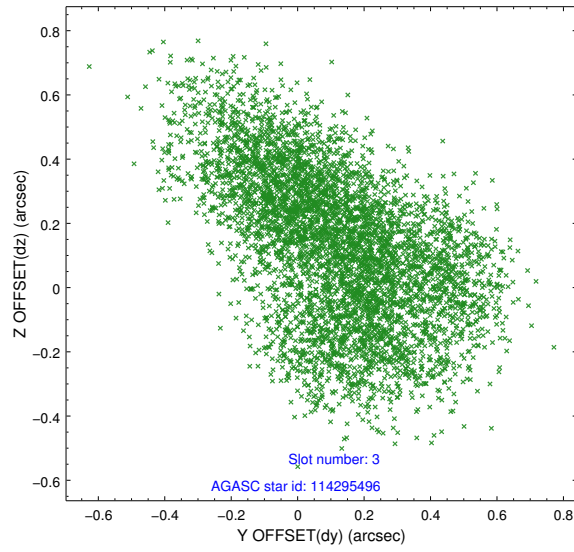


Slot Statistics

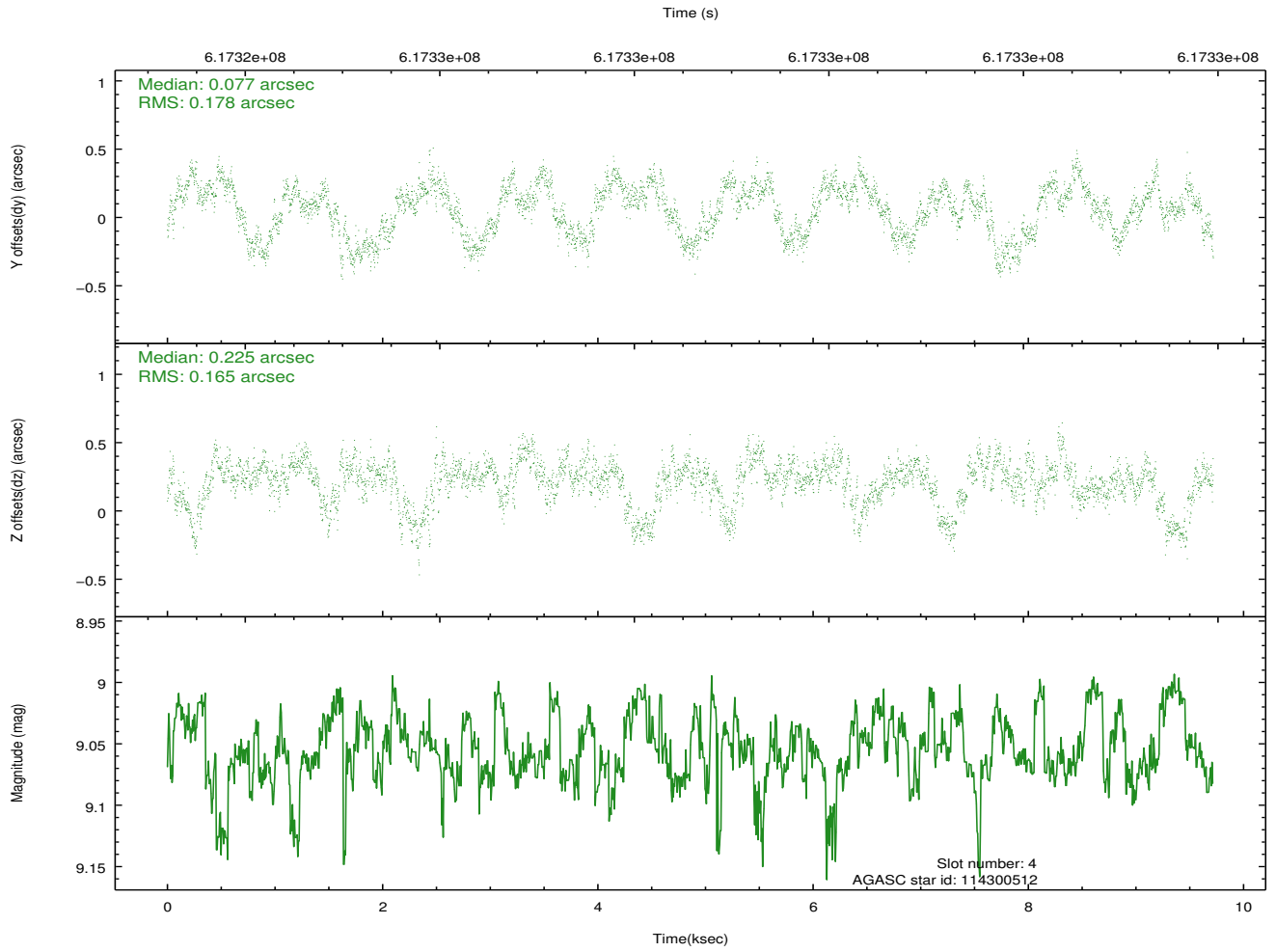
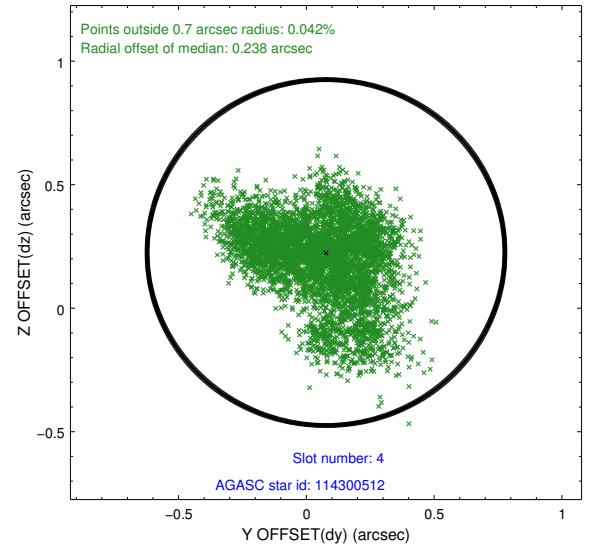
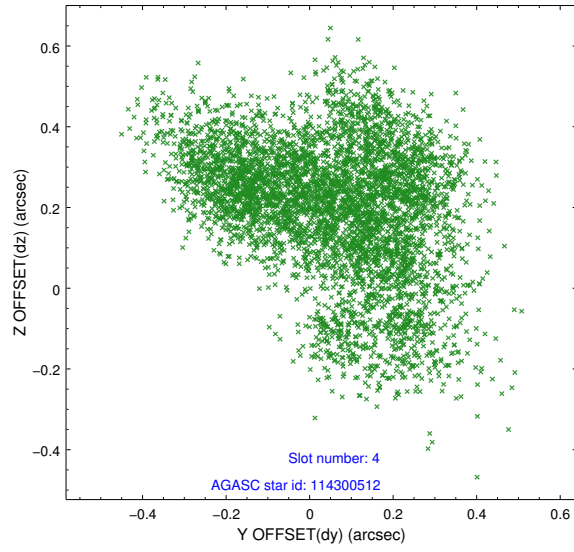
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	2371	-0.232	-0.114	0.012	0.032	0.000000	0.000000	-771.70	-1742.16
1	FID		ACIS-S-4	7.24	2371	0.534	0.143	0.010	0.023	0.000000	0.000000	2142.05	166.07
2	FID		ACIS-S-5	7.23	2371	-0.332	-0.019	0.013	0.028	0.000000	0.000000	-1823.98	160.13
3	GUIDE	used	114295496	9.66	4724	0.113	0.136	0.348	0.533	183.211405	12.908034	1604.94	-2332.41
4	GUIDE	used	114300512	9.06	4735	0.077	0.225	0.259	0.415	183.274843	13.061330	1015.14	-2260.49
5	GUIDE	used	115216896	8.50	4739	-0.003	0.118	0.159	0.259	184.169439	13.297075	-620.70	546.41
6	GUIDE	used	115217776	8.79	4739	-0.126	-0.169	0.138	0.249	184.204027	12.539164	1979.78	1379.10
7	GUIDE	used	115218080	9.47	4734	-0.036	-0.277	0.220	0.362	184.130022	12.510081	2149.61	1155.63

2.4 Star Slots

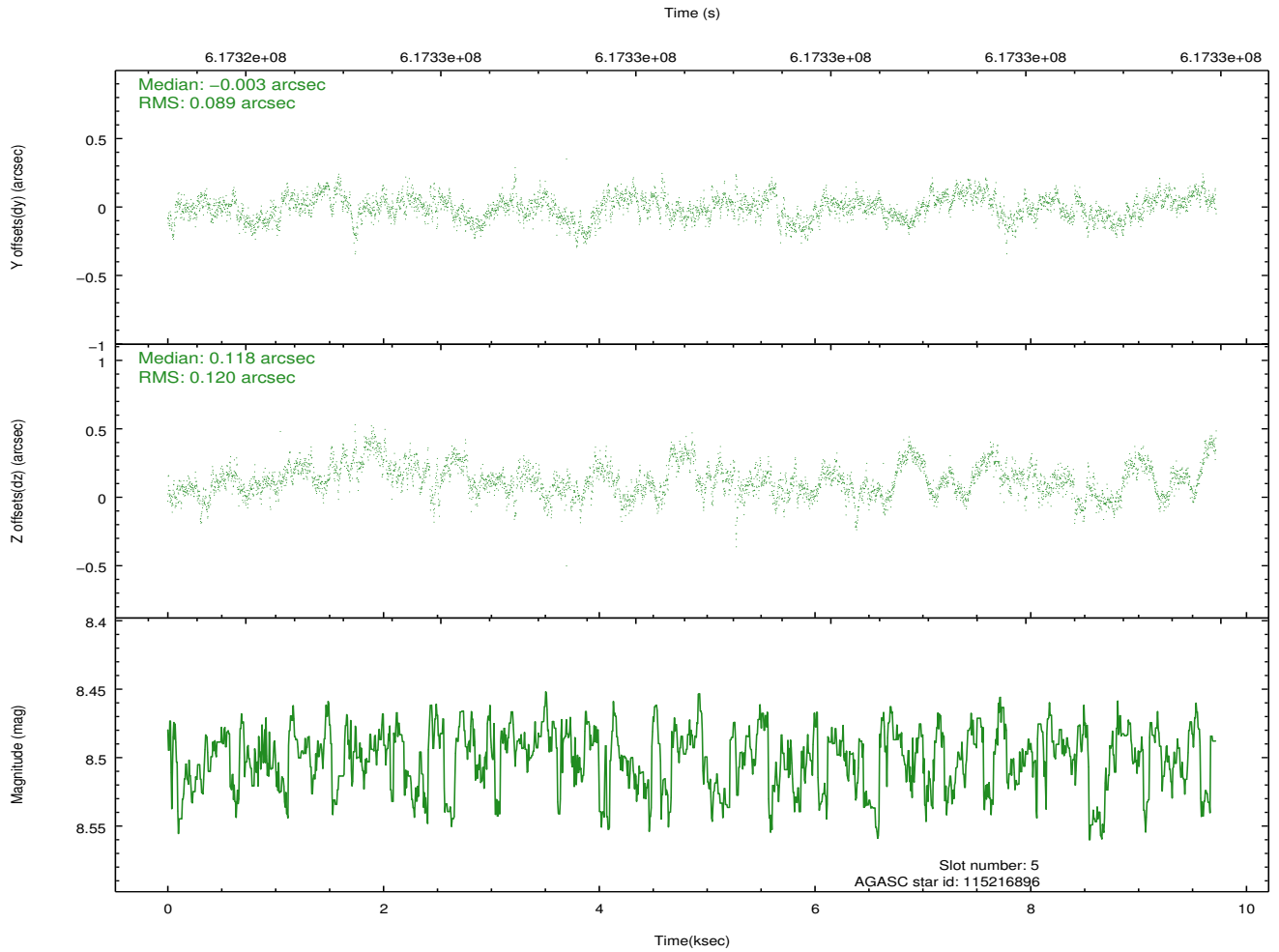
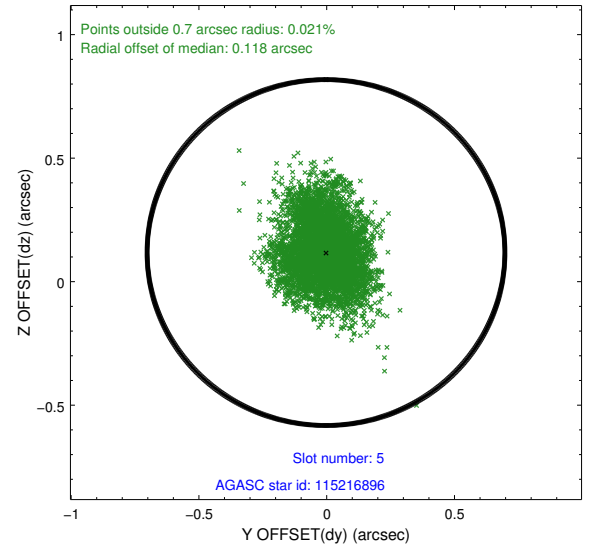
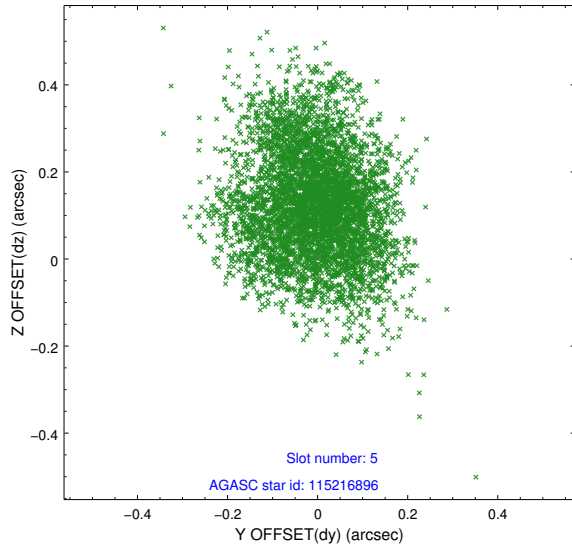
2.4.1 Slot 3



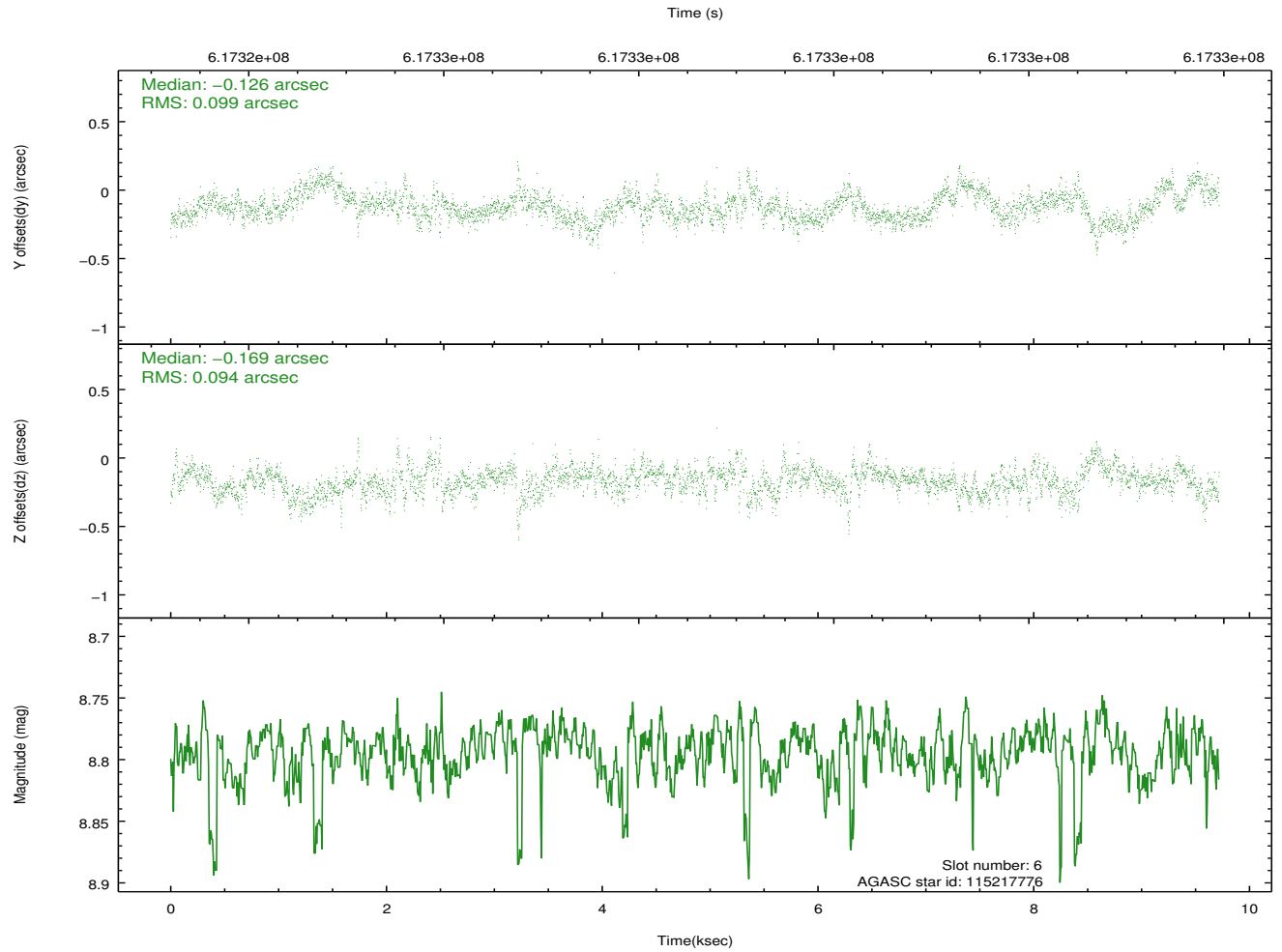
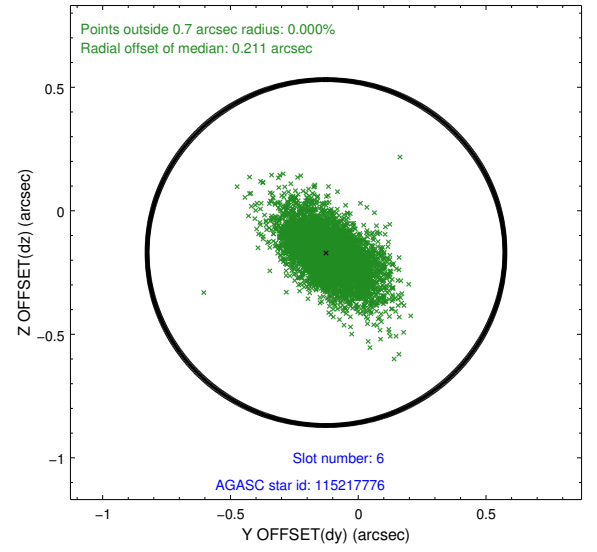
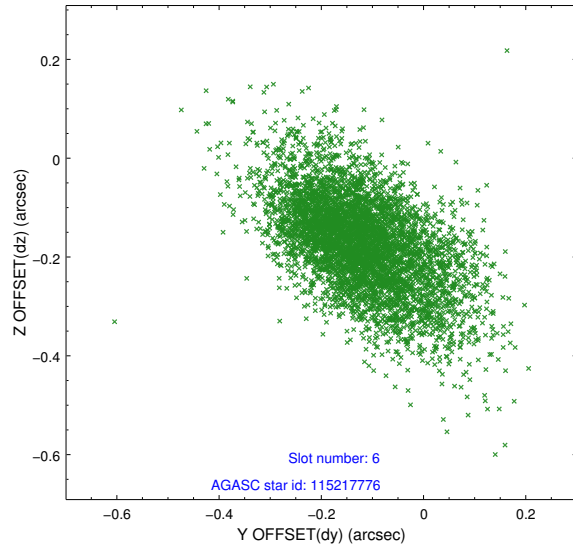
2.4.2 Slot 4



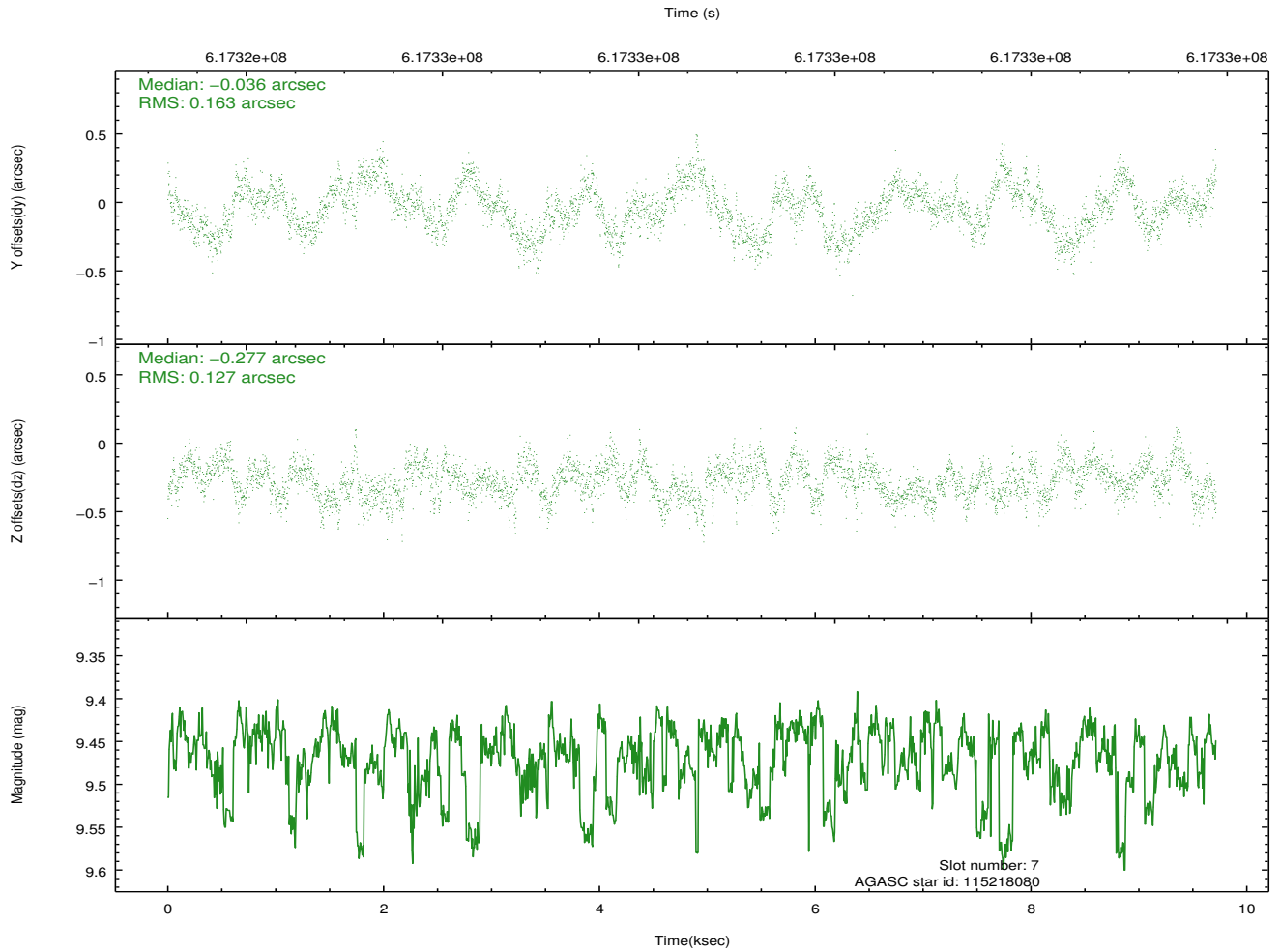
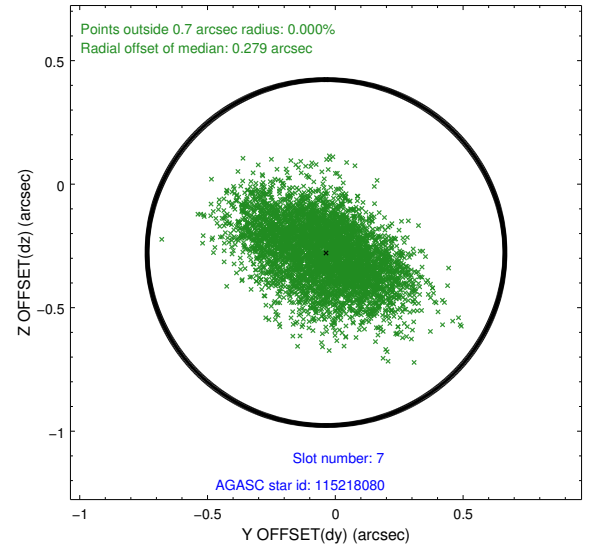
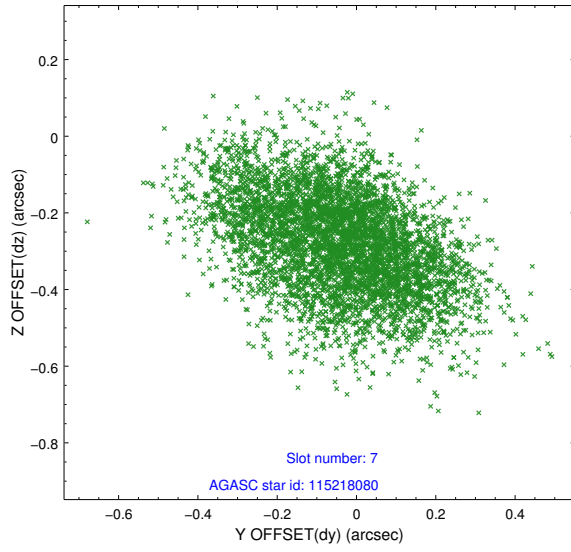
2.4.3 Slot 5



2.4.4 Slot 6

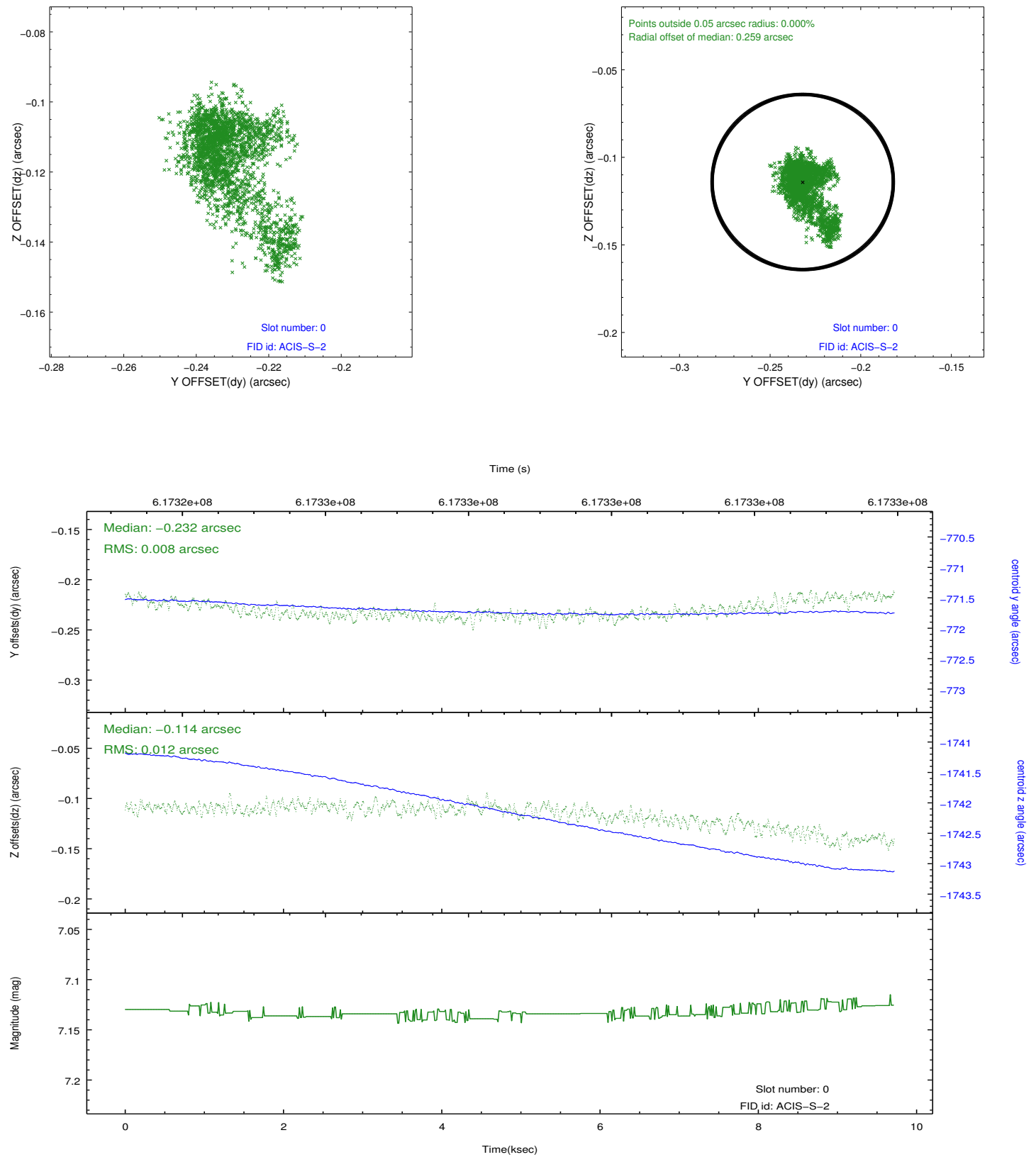


2.4.5 Slot 7

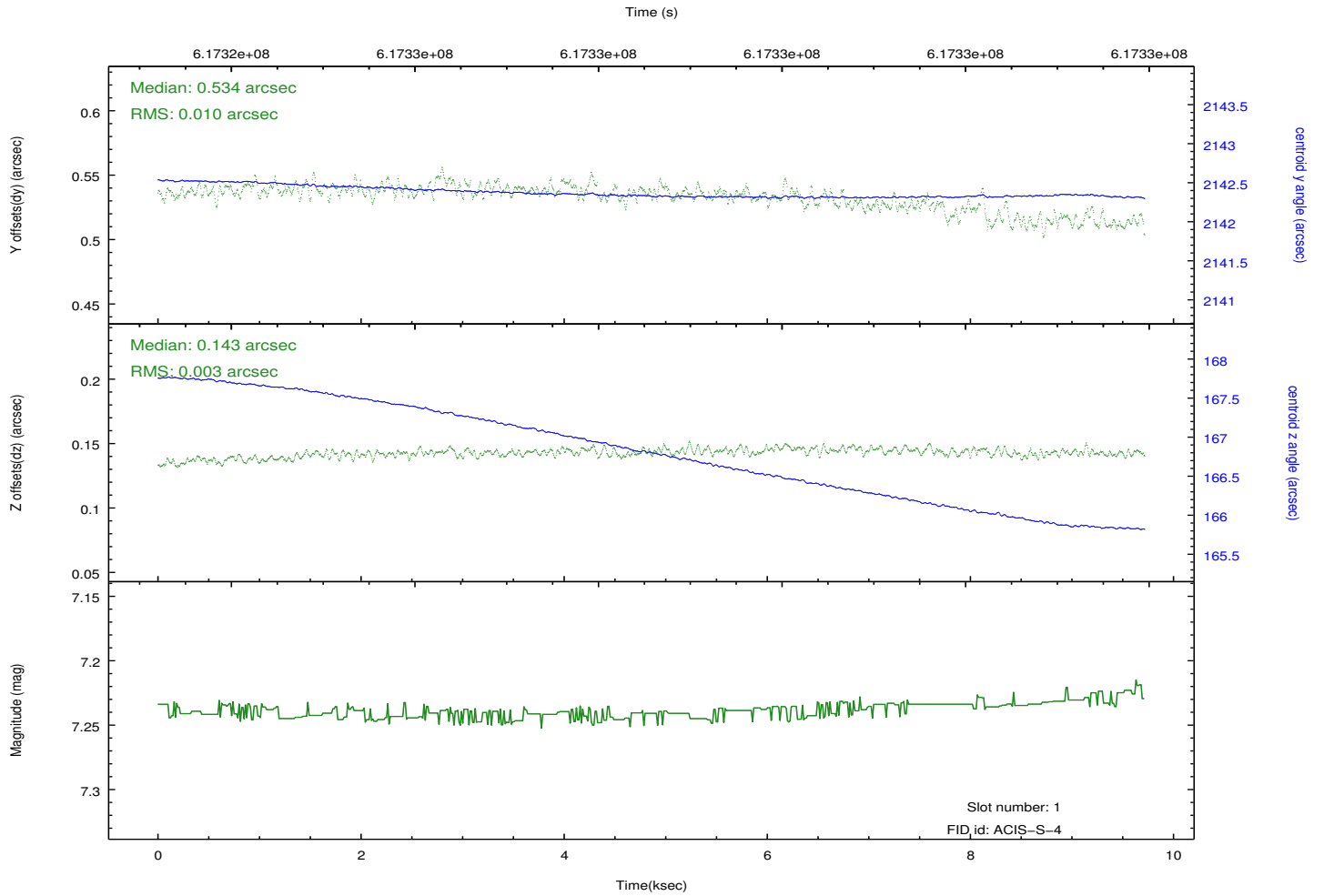
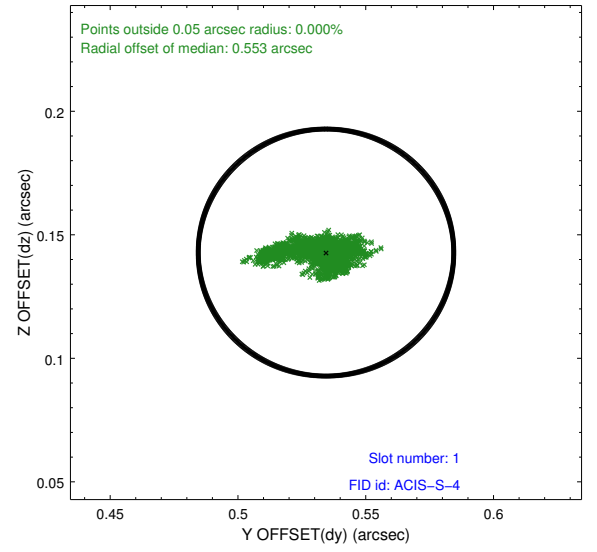
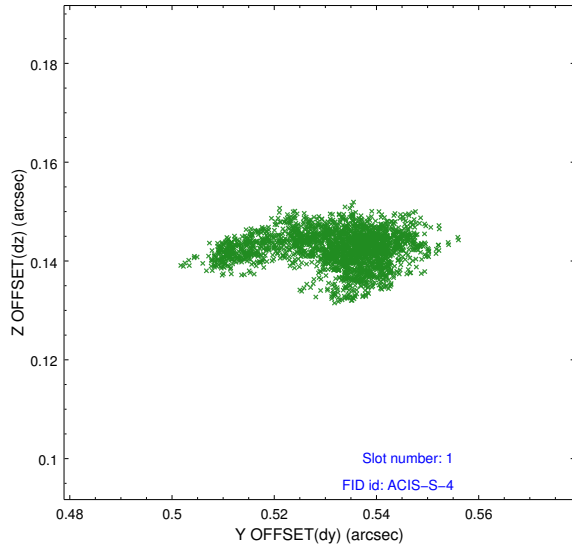


2.5 FID Slots

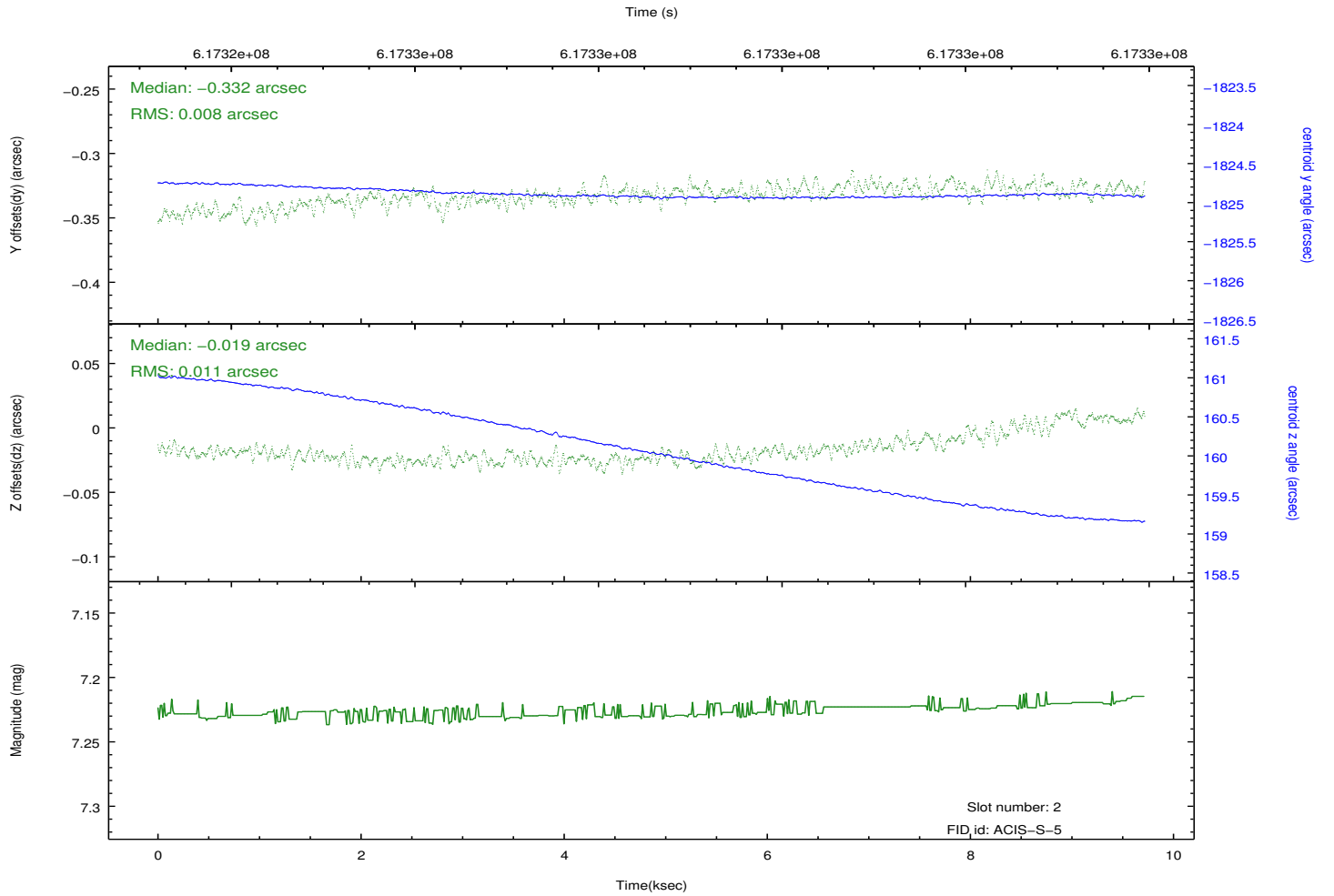
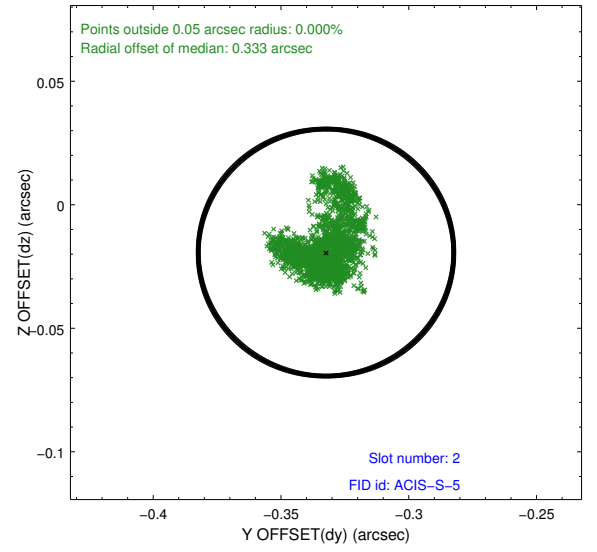
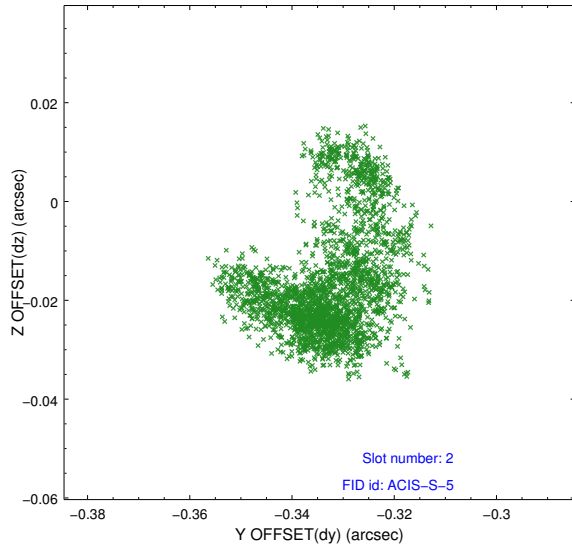
2.5.1 Slot 0



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)	2017.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.6619444693327

A.2 Comments