

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19431 - L2 Version 1
Chandra X-Ray Center

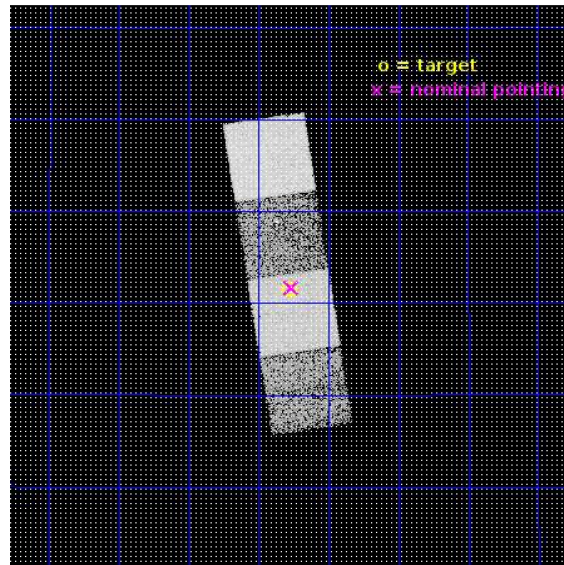
L2 Processing Date : Feb 7 2017

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1 Front

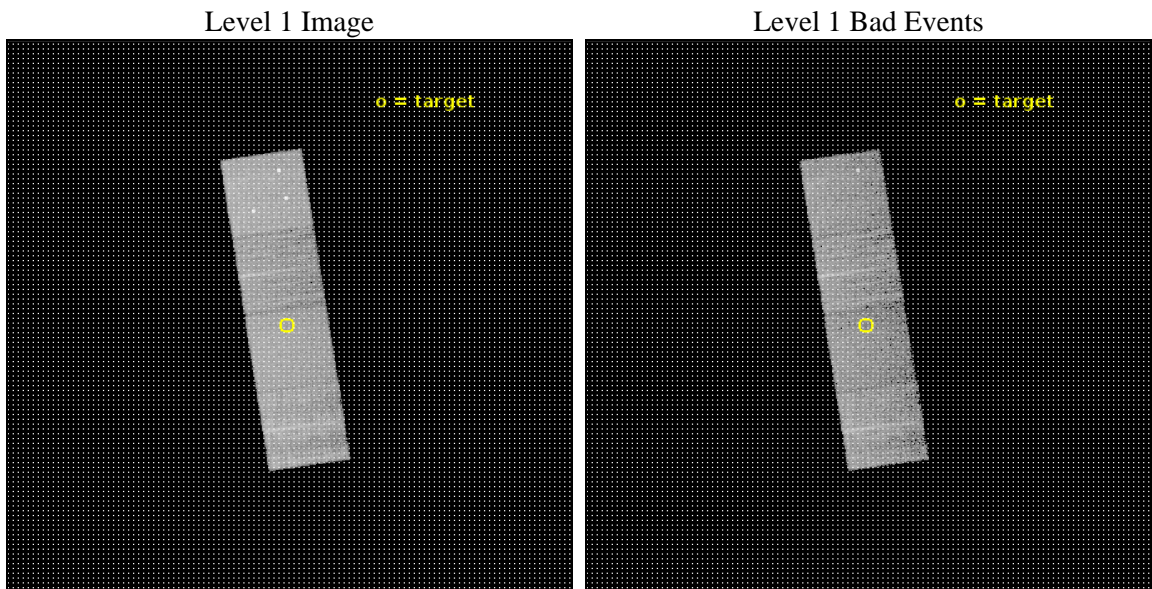
seq_num	601388	Sequence number
obs_id	19431	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4206	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.82	Observer's specified target RA [deg]
dec_targ	13.023972	Observer's specified target Dec [deg]
ra_nom	183.81642100316	Nominal RA [deg]
dec_nom	13.028031328195	Nominal Dec [deg]
roll_nom	81.377207764849	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8065.2741686106	Sum of GTIs [s]
livetime	7959.8954240292	Livetime [s]
ontime5	8065.2331286669	Sum of GTIs [s]
ontime6	8065.192088604	Sum of GTIs [s]
ontime7	8065.2741686106	Sum of GTIs [s]
ontime8	8065.1510486603	Sum of GTIs [s]
l2events	84487	Number of level 2 events



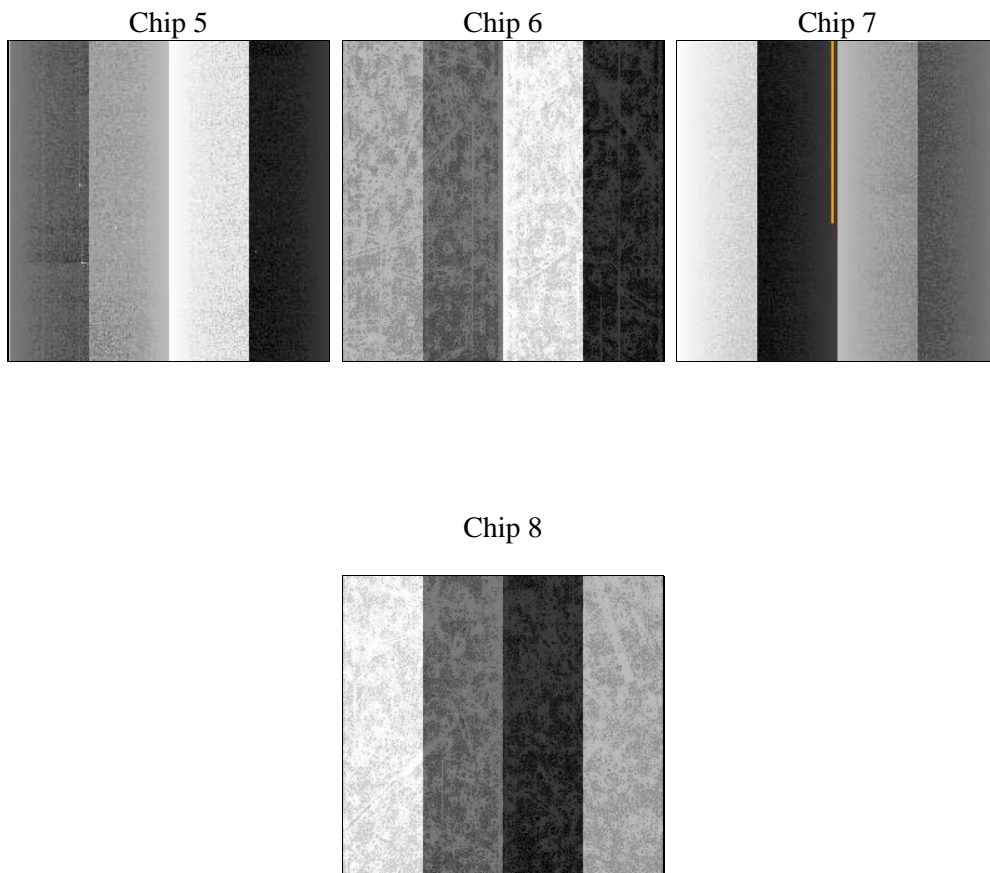
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	8065.2741686106	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	8065.2331286669	Sum of GTIs [s]
date	2017-02-07T06:06:44	Date and time of file creation	ontime6	8065.192088604	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	8065.2741686106	Sum of GTIs [s]
			ontime8	8065.1510486603	Sum of GTIs [s]
			l1events	297607	Number of level 1 events

2.1.4 Events

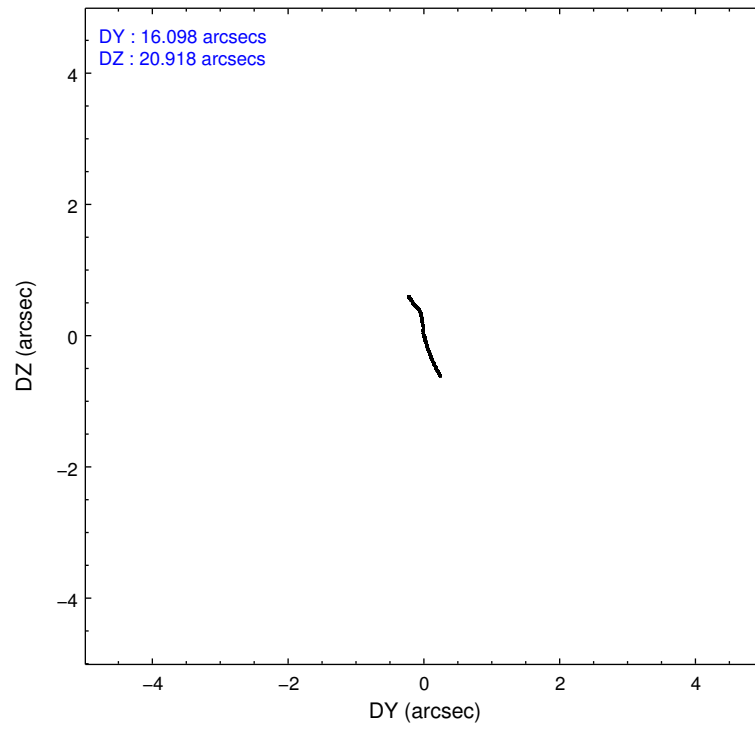
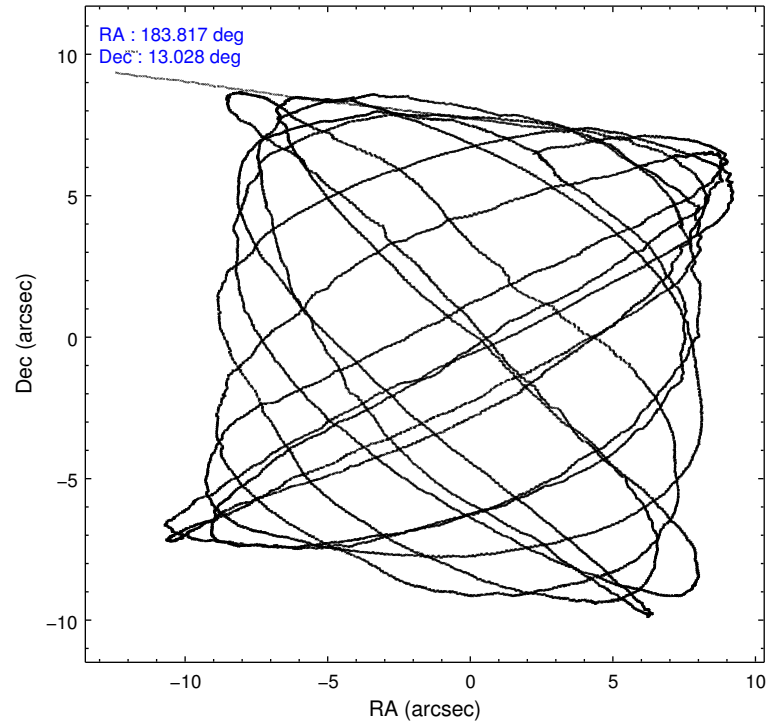
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	92784	56793	71900	76130
rejected events	46072	50185	40244	54646
rejected %	49%	88%	55%	71%

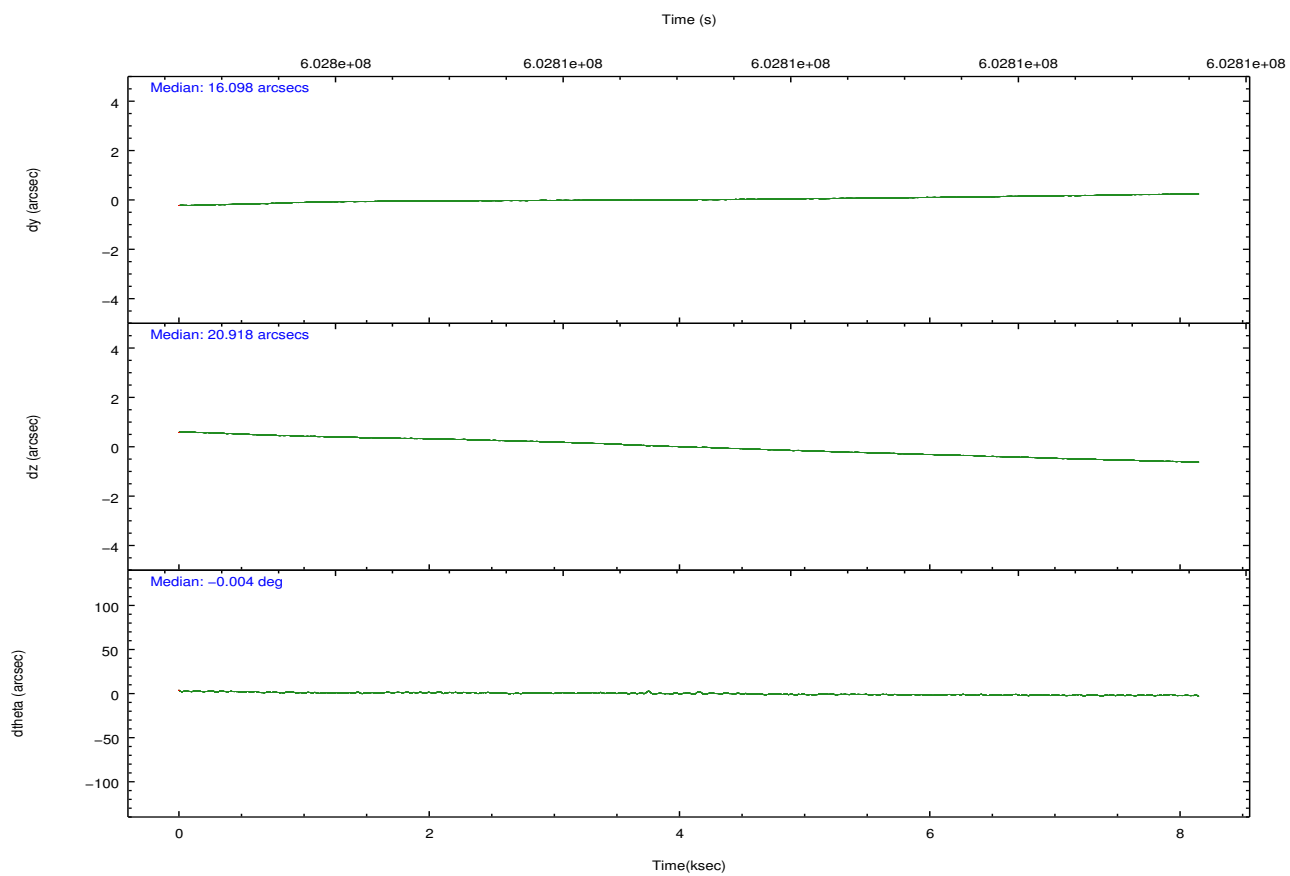
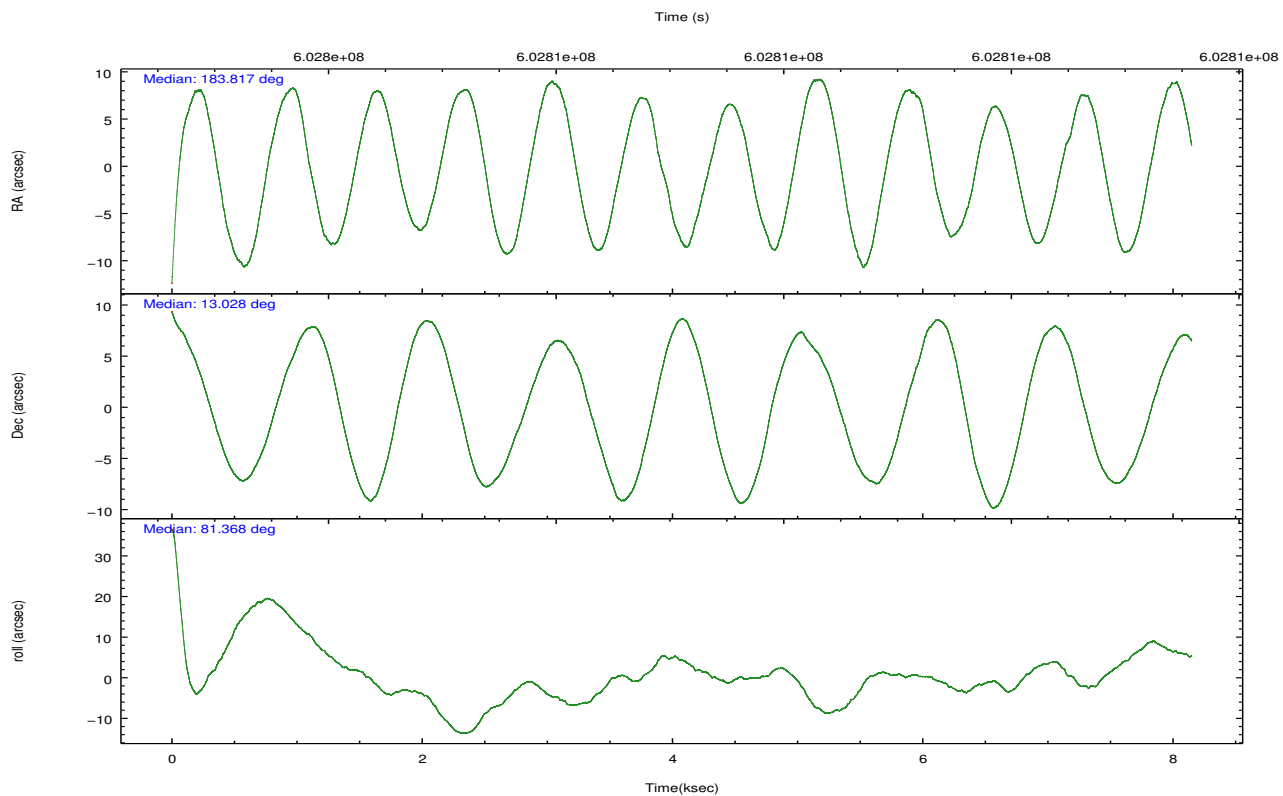
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6313	2305	2714	6257
	6%	4%	3%	8%
grade 1 events	222	36	105	65
	0%	0%	0%	0%
grade 2 events	14089	1566	6716	5186
	15%	2%	9%	6%
grade 3 events	1509	650	2544	2189
	1%	1%	3%	2%
grade 4 events	1507	627	2635	2140
	1%	1%	3%	2%
grade 5 events	6799	2709	7406	4049
	7%	4%	10%	5%
grade 6 events	23311	1463	17058	5713
	25%	2%	23%	7%
grade 7 events	39034	47437	32722	50531
	42%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	183.826996	183.8164210031595	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.002561	13.02803132819516	Alternating exposures requested	N	N
[deg] Pointing Roll	81.218151	81.3772077648492	[s] Primary exposure time	0.000000	3.1
[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)	602803169.184000	602802027.47287			
Observation start date	2017-02-06T21:18:20	2017-02-06T21:00:27			
[s] Observation end time (MET)	602811169.184000	602812169.84846			
Observation end date	2017-02-06T23:31:40	2017-02-06T23:49:29			
Read mode	TIMED	TIMED			

2.3 Aspect



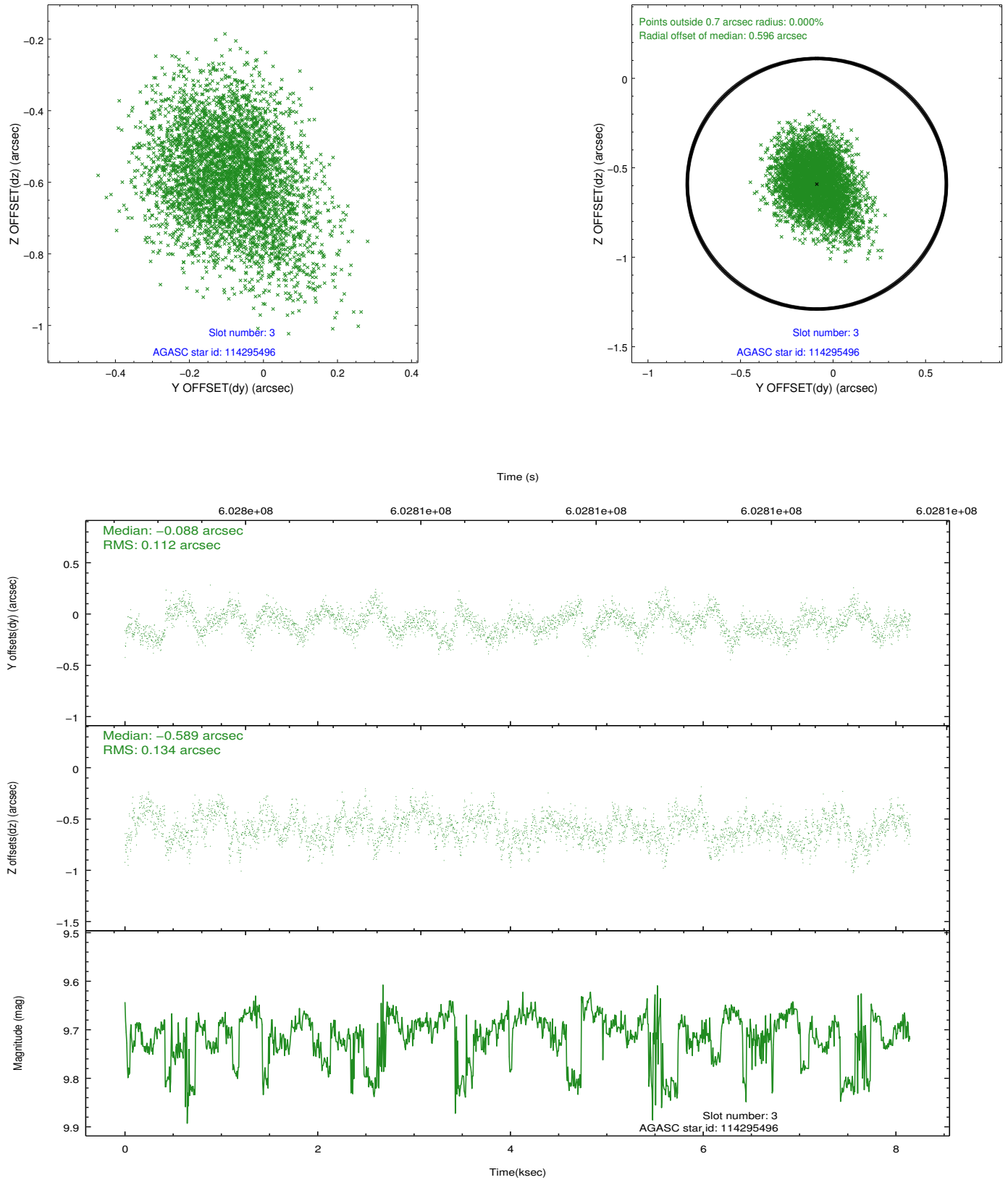


Slot Statistics

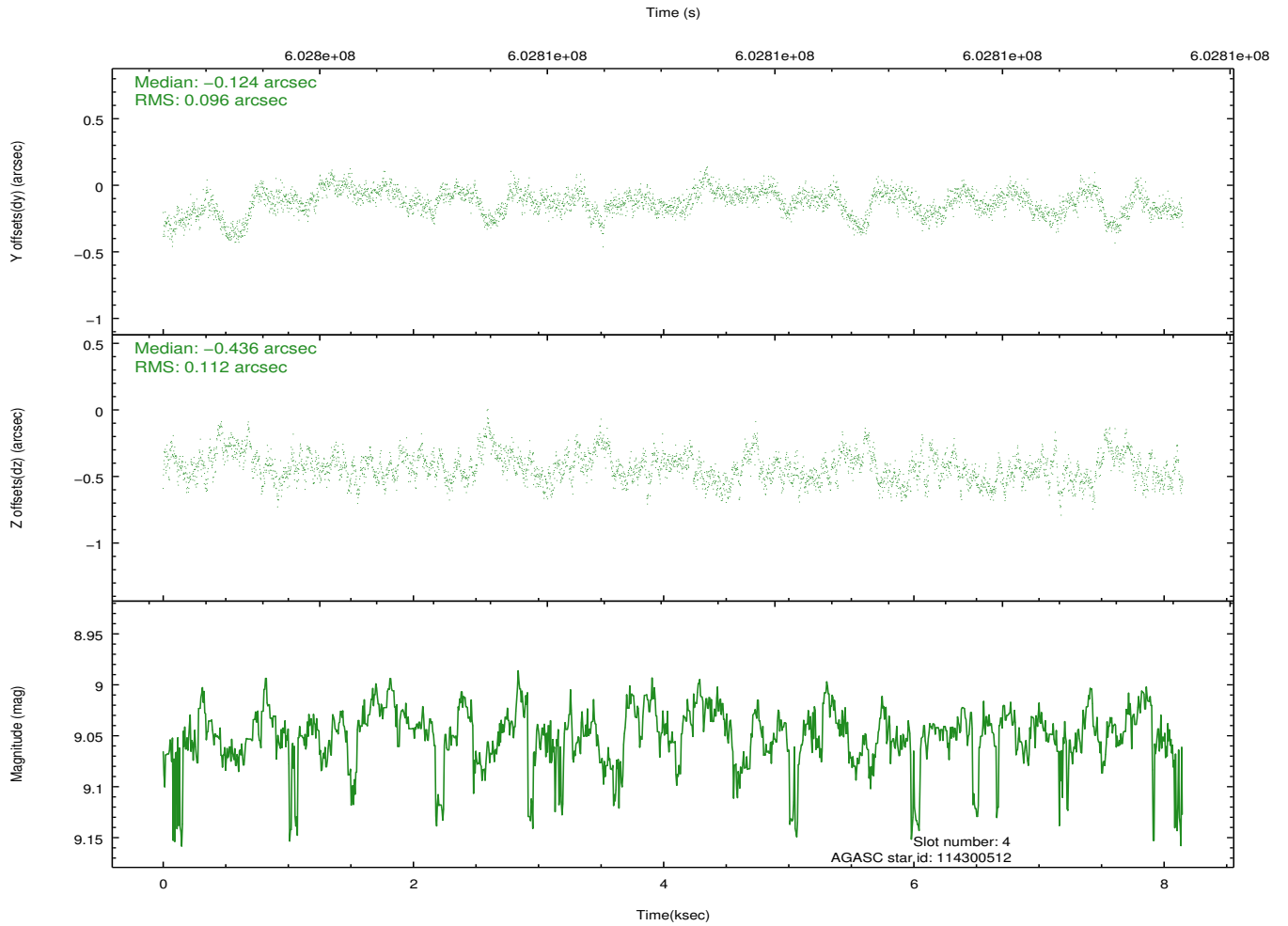
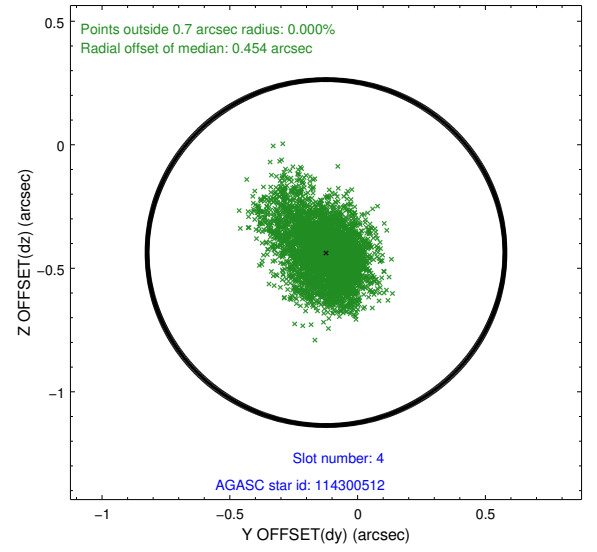
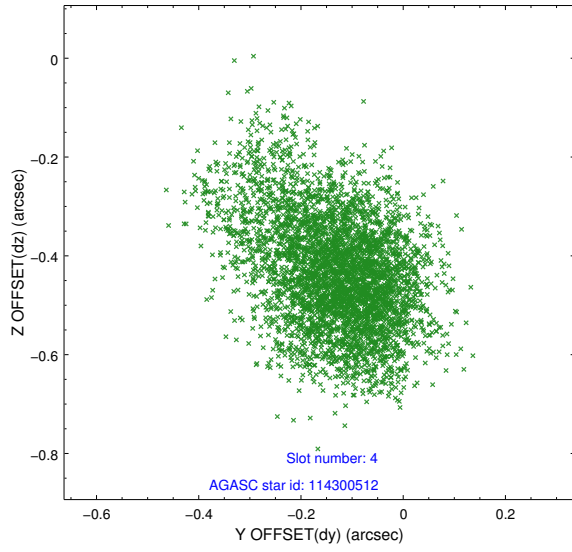
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	1988	-0.198	-0.065	0.012	0.018	0.000000	0.000000	-769.31	-1742.52
1	FID		ACIS-S-4	7.05	1988	0.395	0.113	0.009	0.015	0.000000	0.000000	2144.23	165.45
2	FID		ACIS-S-5	7.04	1986	-0.227	-0.039	0.012	0.017	0.000000	0.000000	-1821.31	159.72
3	GUIDE	used	114295496	9.71	3969	-0.088	-0.589	0.186	0.308	183.211405	12.908034	-663.11	2083.29
4	GUIDE	used	114300512	9.05	3968	-0.124	-0.436	0.153	0.266	183.274843	13.061330	-84.81	1947.06
5	GUIDE	used	115216896	8.50	3974	-0.221	0.099	0.110	0.177	184.169439	13.297075	1231.54	-1022.58
6	GUIDE	used	115217776	8.79	3974	0.214	0.480	0.111	0.187	184.204027	12.539164	-1444.56	-1563.53
7	GUIDE	used	115218080	9.46	3969	0.224	0.441	0.140	0.236	184.130022	12.510081	-1588.75	-1322.86

2.4 Star Slots

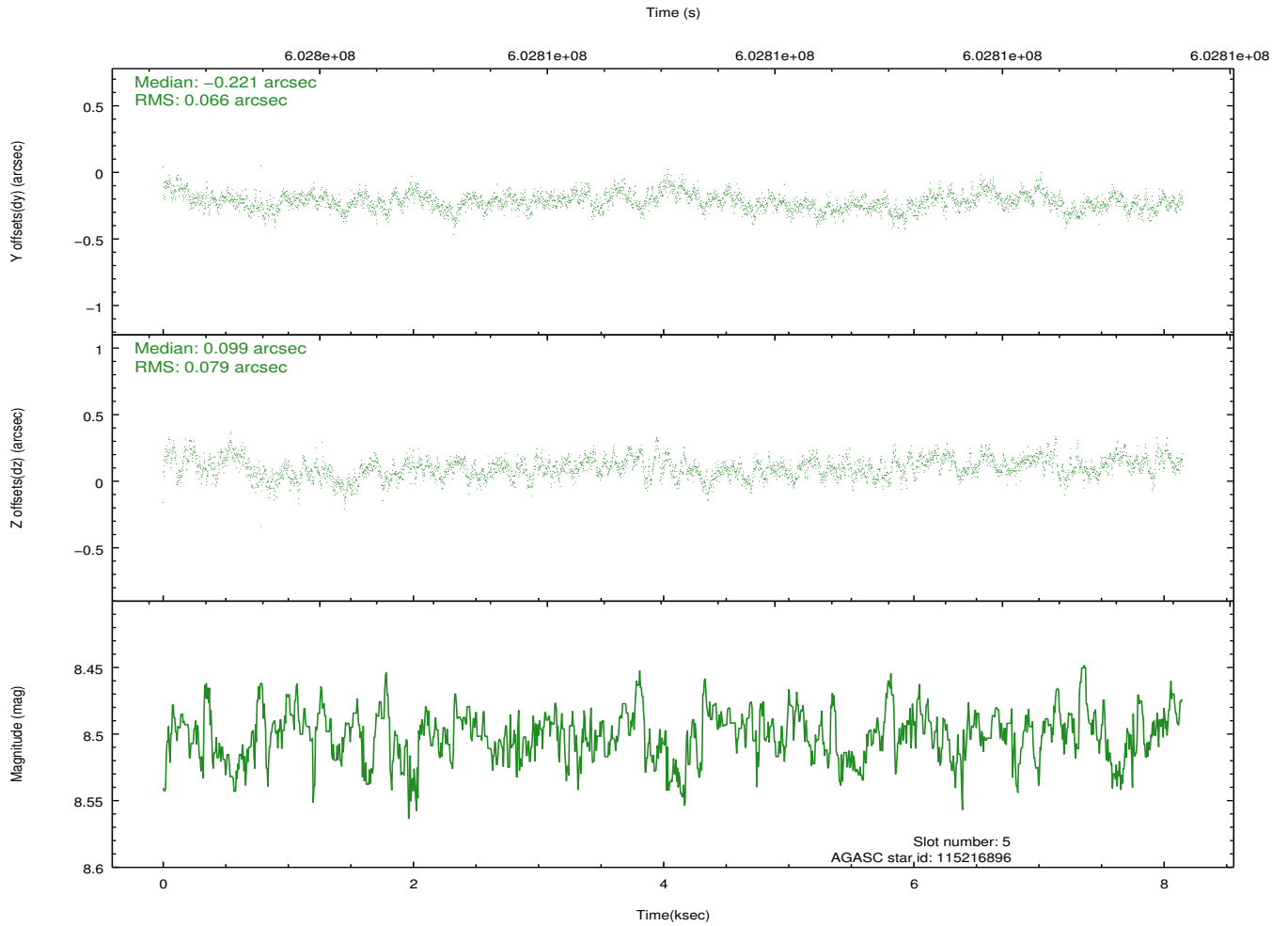
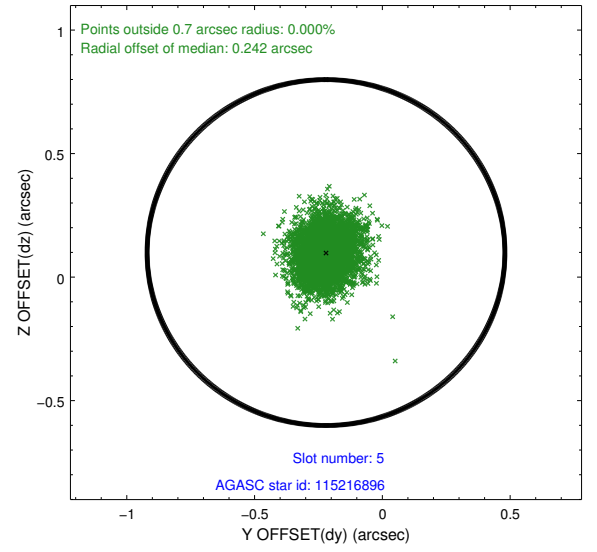
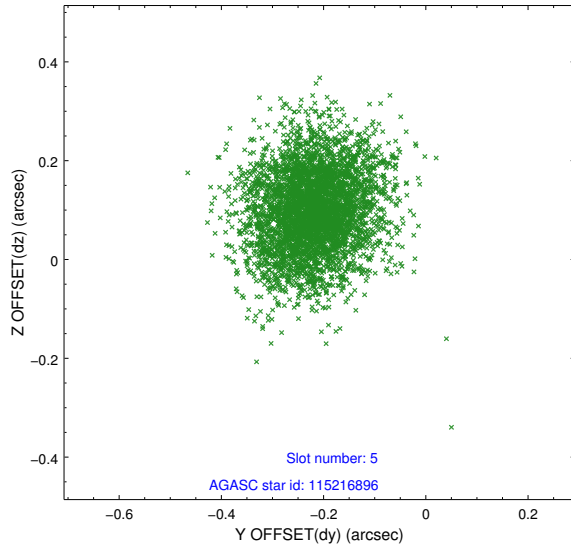
2.4.1 Slot 3



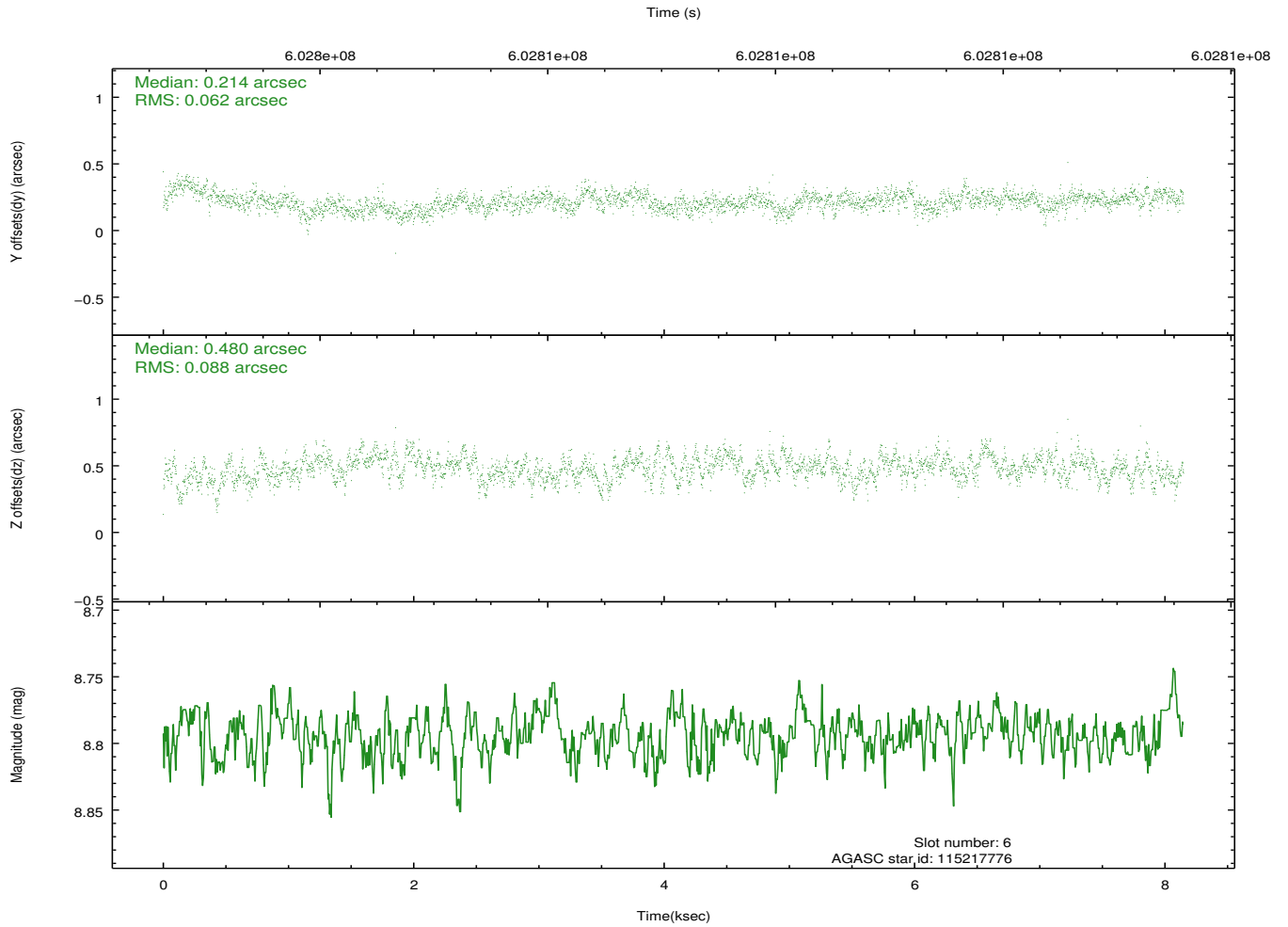
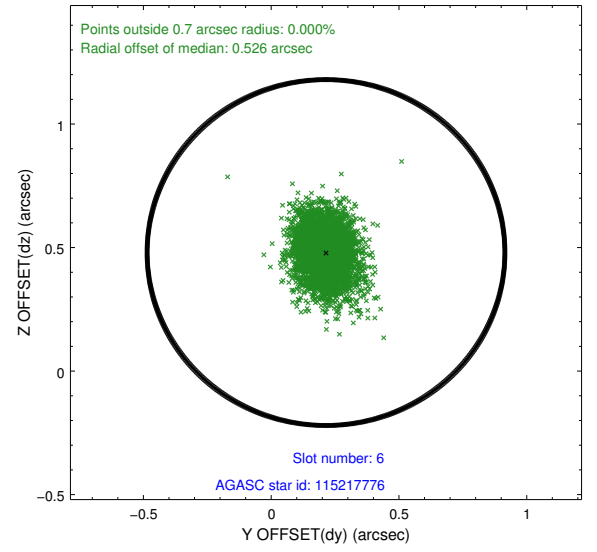
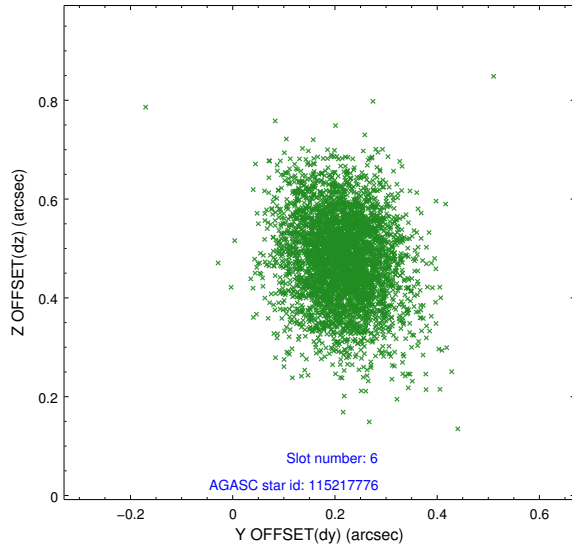
2.4.2 Slot 4



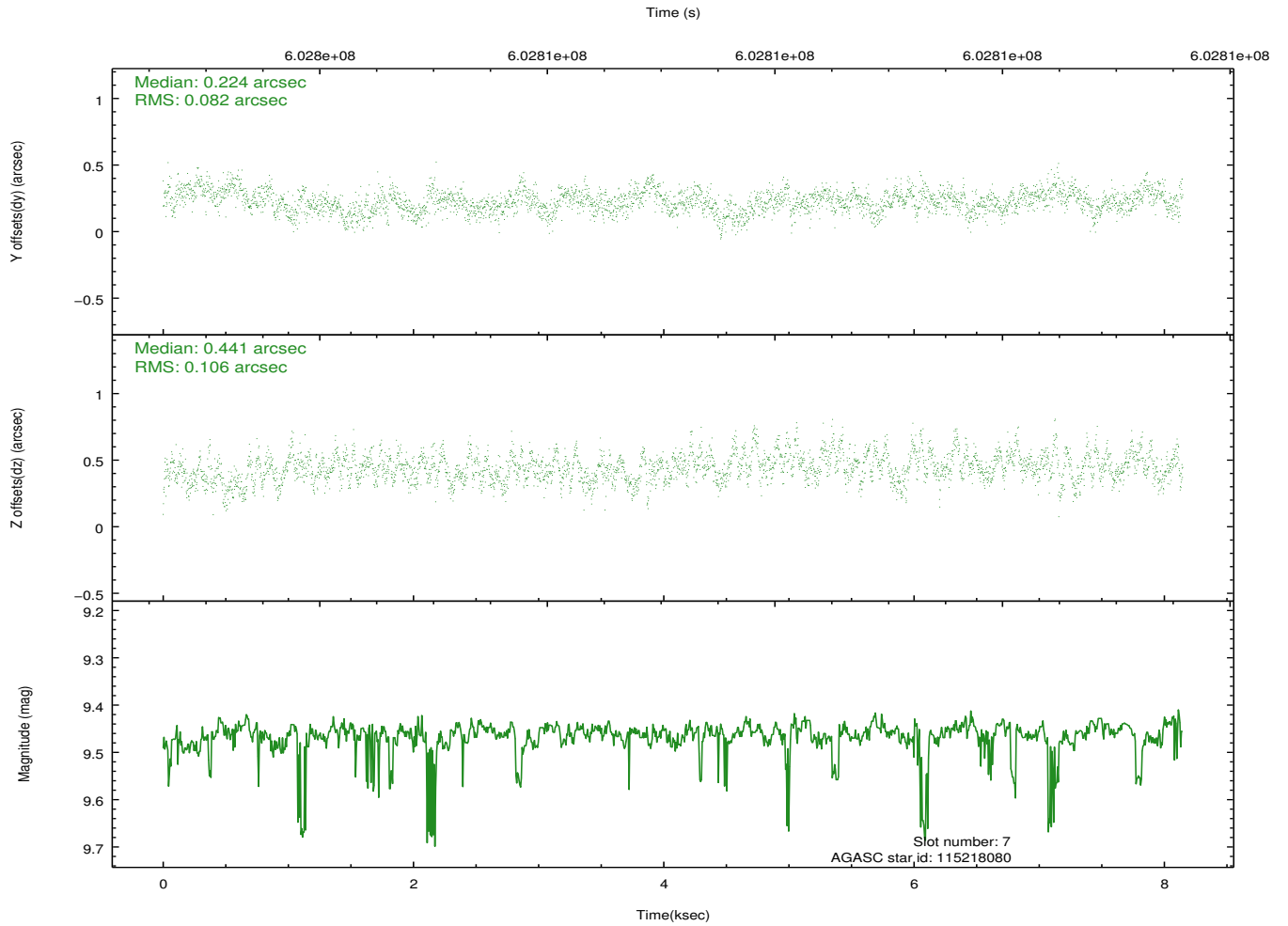
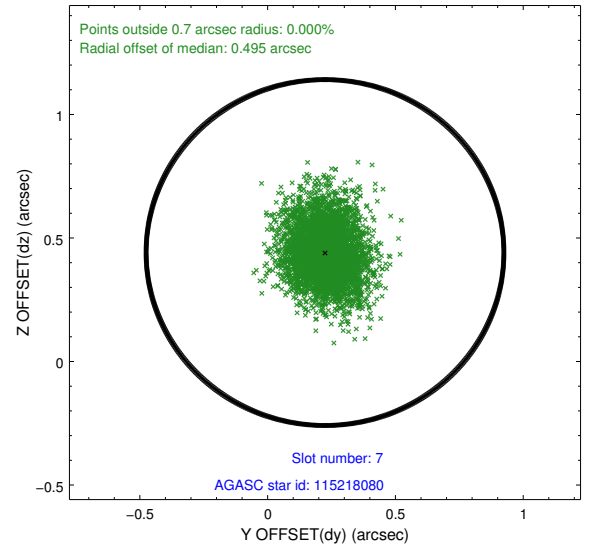
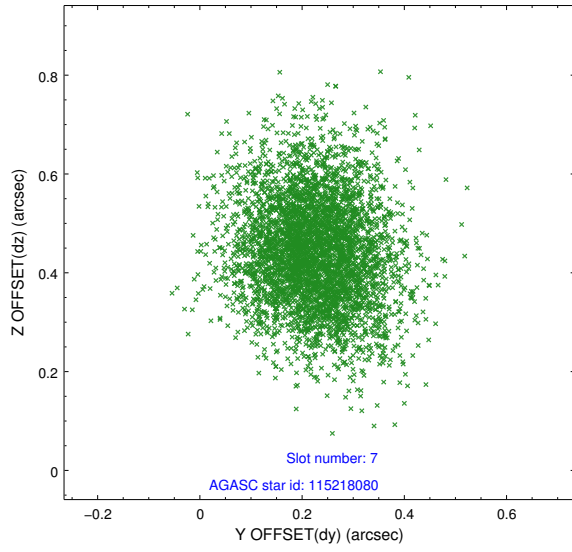
2.4.3 Slot 5



2.4.4 Slot 6

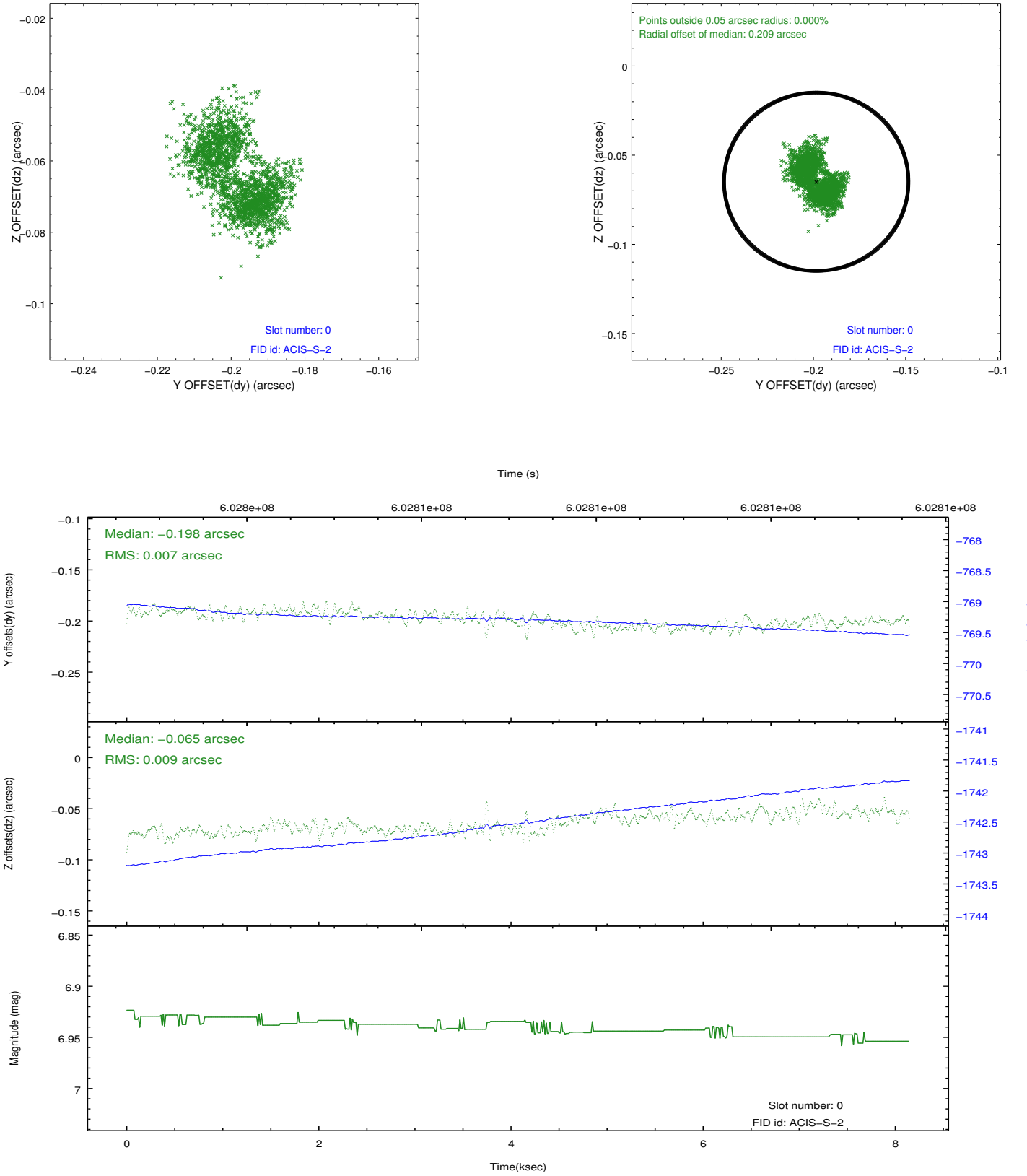


2.4.5 Slot 7

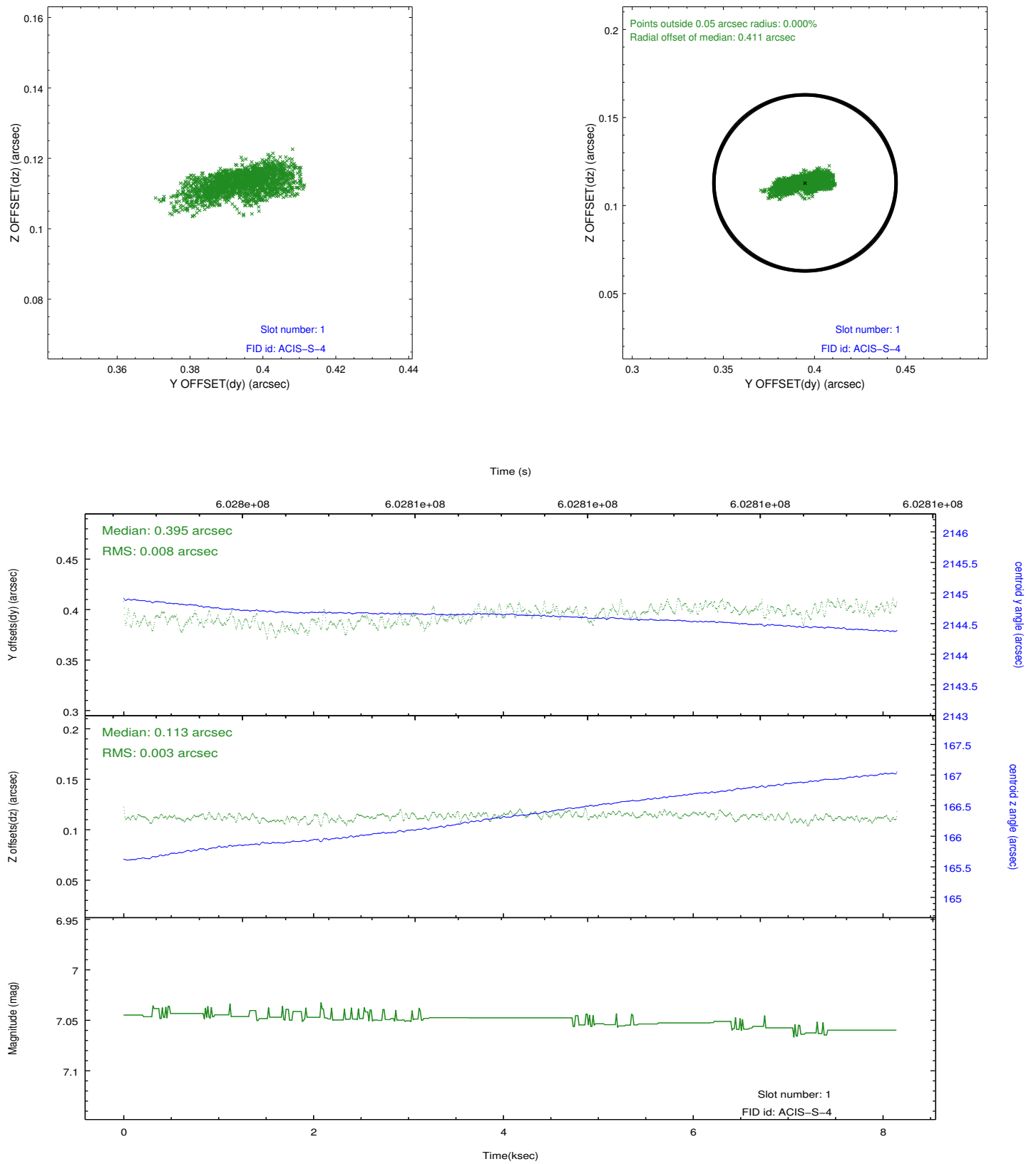


2.5 FID Slots

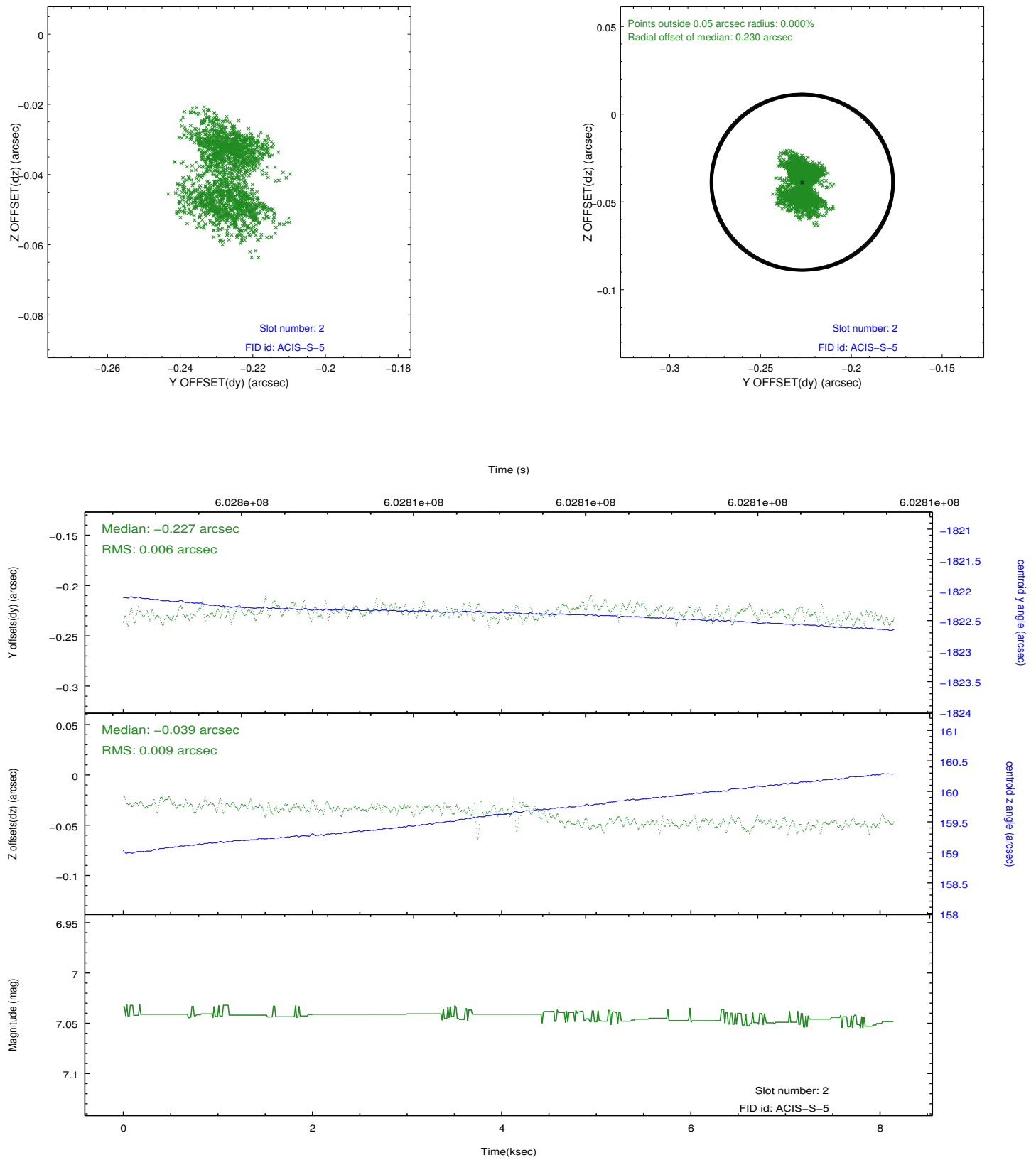
2.5.1 Slot 0



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)	2017.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0652741686106

A.2 Comments