

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16152 - L2 Version 1
Chandra X-Ray Center

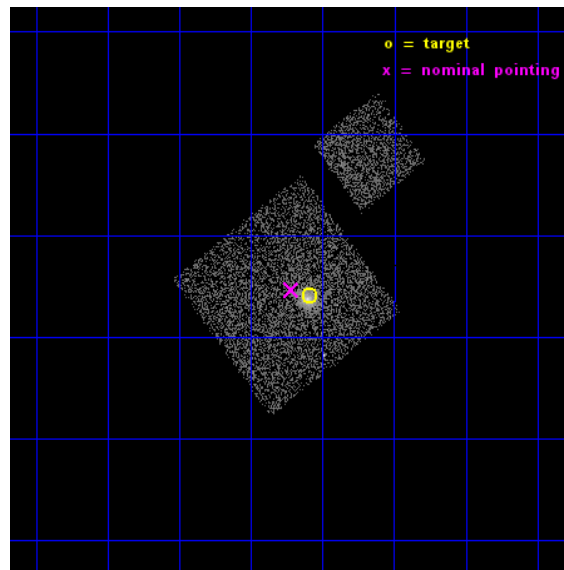
L2 Processing Date : Feb 4 2015

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1 Front

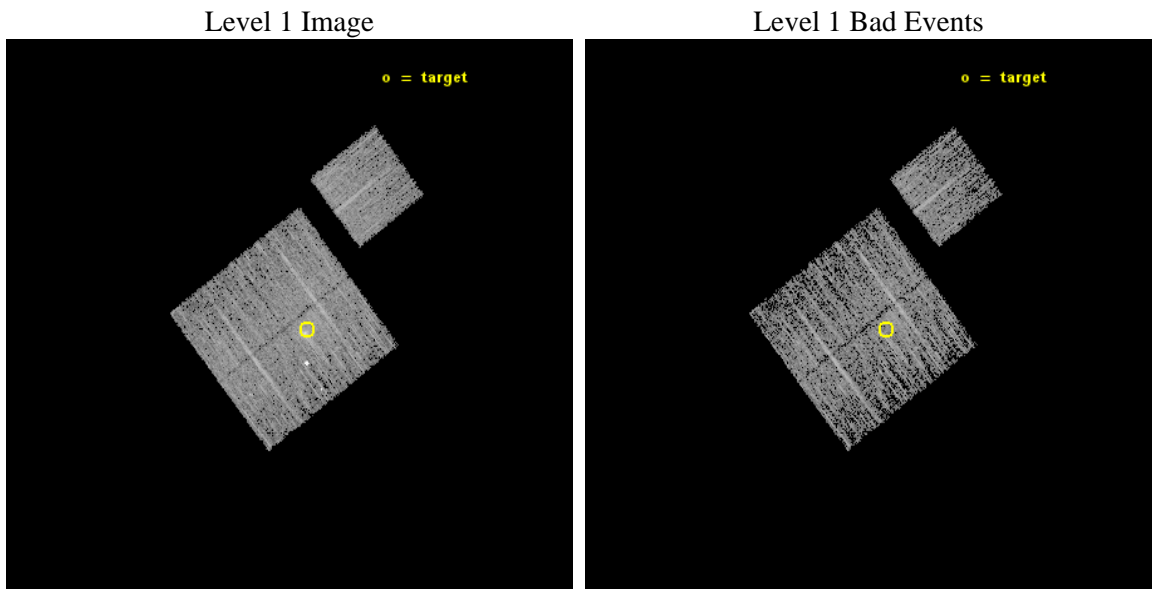
seq_num	801405	Sequence number
obs_id	16152	Observation id
title	Setting the Scale: Supporting precision cluster cosmology with Chandra observations of low-z lensing clusters	Proposal title
observer	Dr Adam Mantz	Principal investigator
object	RXJ1050.5-0236	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.647917	Observer's specified target RA [deg]
dec_targ	-2.6	Observer's specified target Dec [deg]
ra_nom	162.6794974306	Nominal RA [deg]
dec_nom	-2.5891591207593	Nominal Dec [deg]
roll_nom	52.480647307145	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6106.7977318764	Sum of GTIs [s]
livetime	6027.0079237503	Livetime [s]
ontime0	6106.6746119261	Sum of GTIs [s]
ontime1	6106.7156518698	Sum of GTIs [s]
ontime2	6106.7566919327	Sum of GTIs [s]
ontime3	6106.7977318764	Sum of GTIs [s]
ontime6	6106.6335718632	Sum of GTIs [s]
l2events	13957	Number of level 2 events



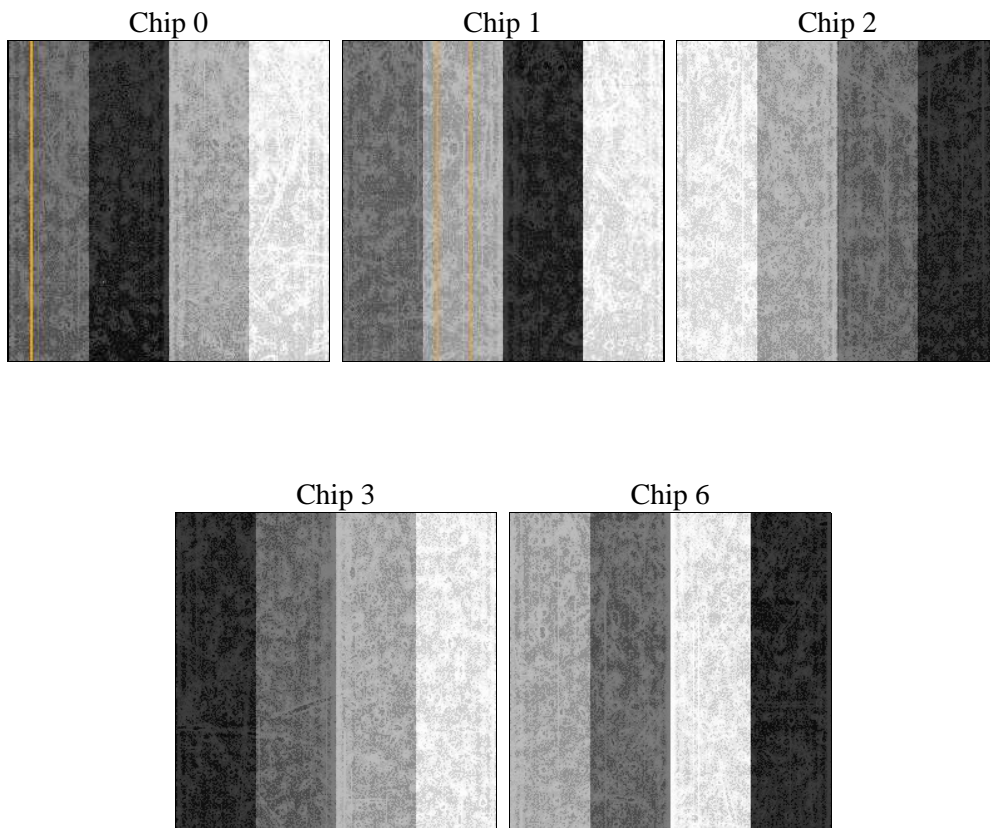
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	6106.7977318764	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	6106.6746119261	Sum of GTIs [s]
date	2015-02-04T05:12:24	Date and time of file creation	ontime1	6106.7156518698	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6106.7566919327	Sum of GTIs [s]
			ontime3	6106.7977318764	Sum of GTIs [s]
			ontime6	6106.6335718632	Sum of GTIs [s]
			l1events	128520	Number of level 1 events

2.1.4 Events

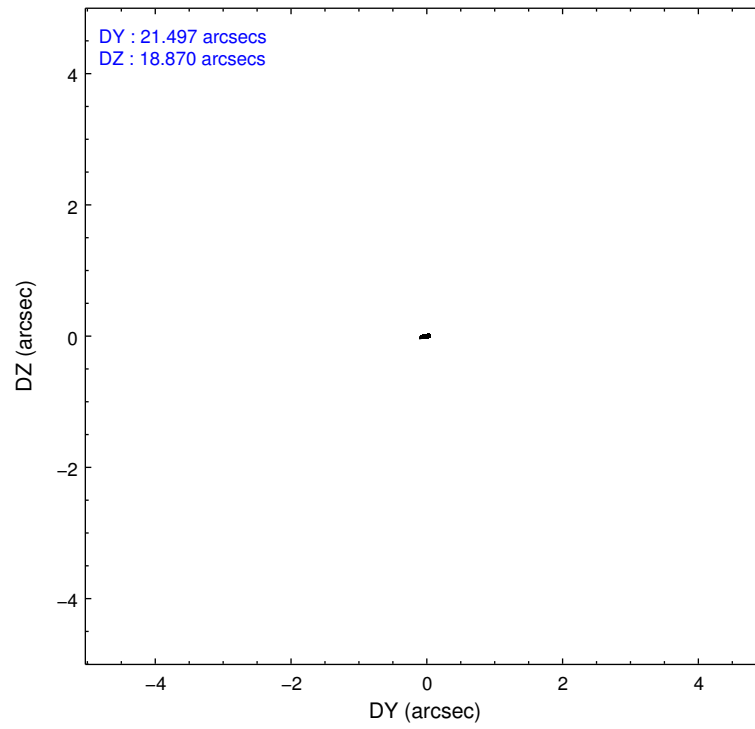
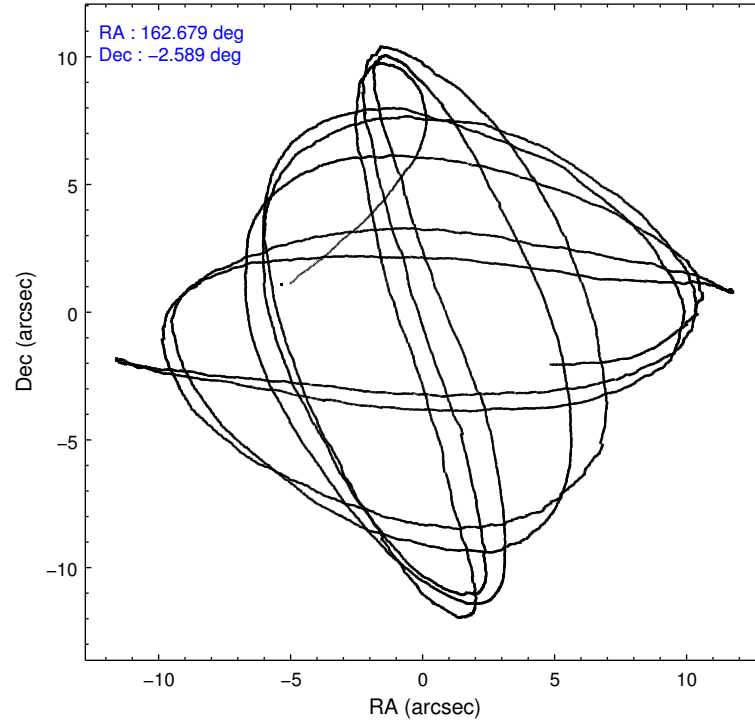
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23510	26557	25000	28087	25366
rejected events	20678	21289	22234	23380	22600
rejected %	87%	80%	88%	83%	89%

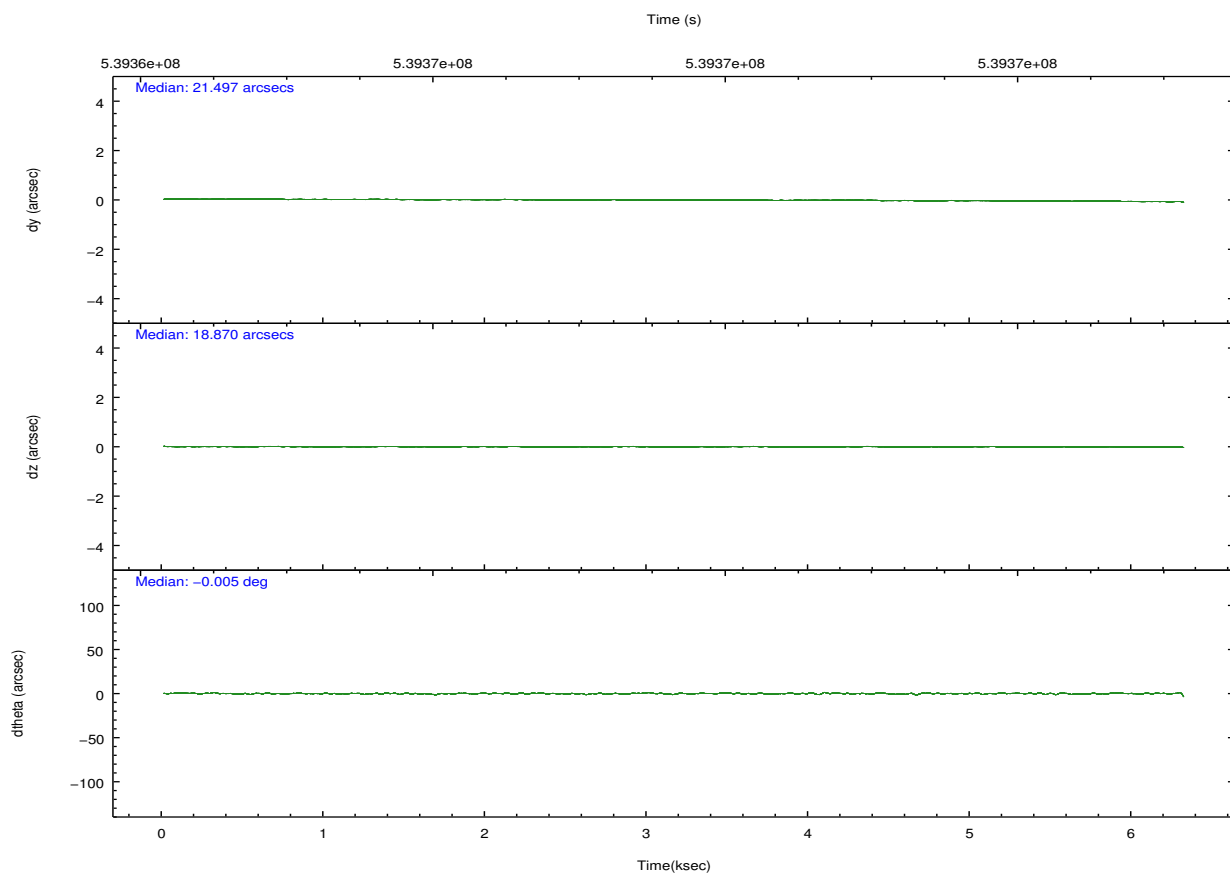
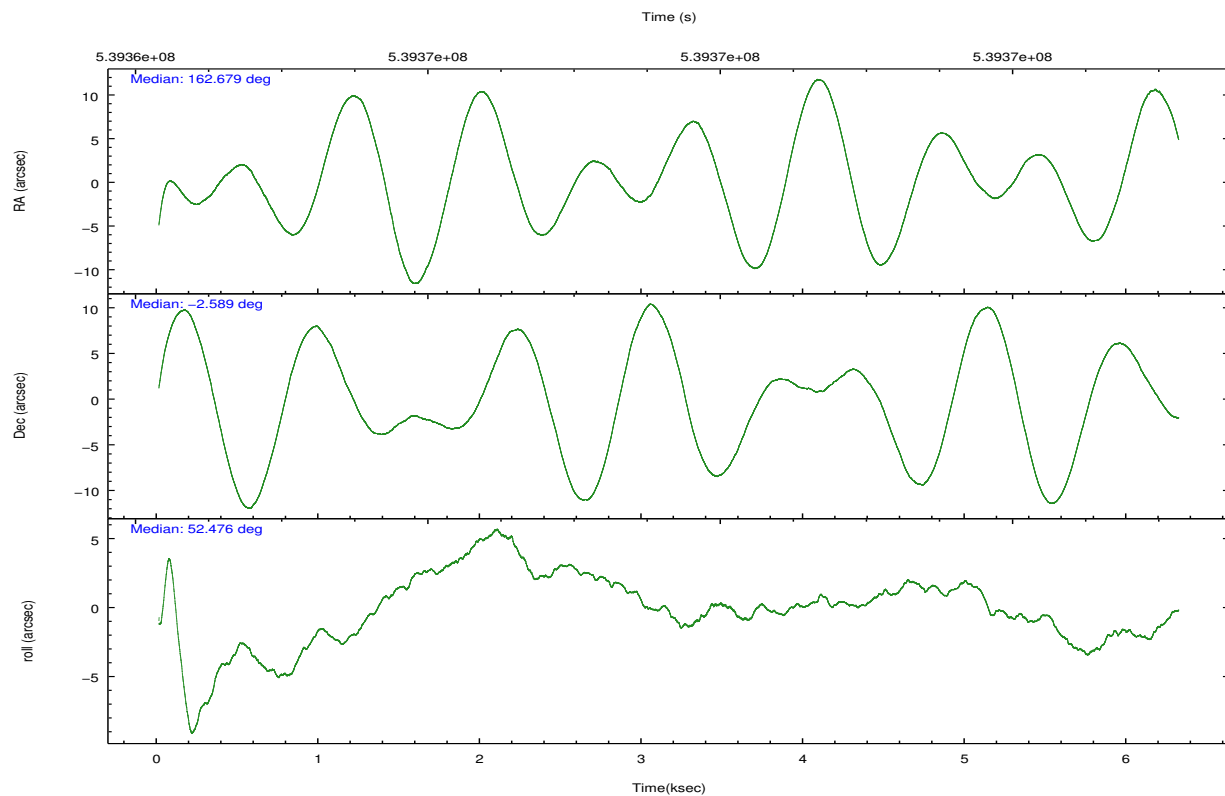
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1043	3348	1096	2662	1021
	4%	12%	4%	9%	4%
grade 1 events	16	17	13	28	12
	0%	0%	0%	0%	0%
grade 2 events	712	714	680	796	619
	3%	2%	2%	2%	2%
grade 3 events	273	315	262	352	269
	1%	1%	1%	1%	1%
grade 4 events	249	299	268	361	265
	1%	1%	1%	1%	1%
grade 5 events	849	919	715	947	864
	3%	3%	2%	3%	3%
grade 6 events	556	599	461	543	594
	2%	2%	1%	1%	2%
grade 7 events	19812	20346	21505	22398	21722
	84%	76%	86%	79%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	162.675973	162.6794974305976	CCD I2 on	Y	Y
[deg] Pointing Dec	-2.616621	-2.589159120759265	CCD I3 on	Y	Y
[deg] Pointing Roll	52.271809	52.480647307145	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5899487761303	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.002504226799430853	CCD S4 on	N	N
[s] Observation start time (MET)	539364807.184000	539363778.88921	CCD S5 on	N	N
Observation start date	2015-02-03T15:32:20	2015-02-03T15:16:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539370807.184000	539371860.50216	On-chip summing requested	N	N
Observation end date	2015-02-03T17:12:20	2015-02-03T17:31:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



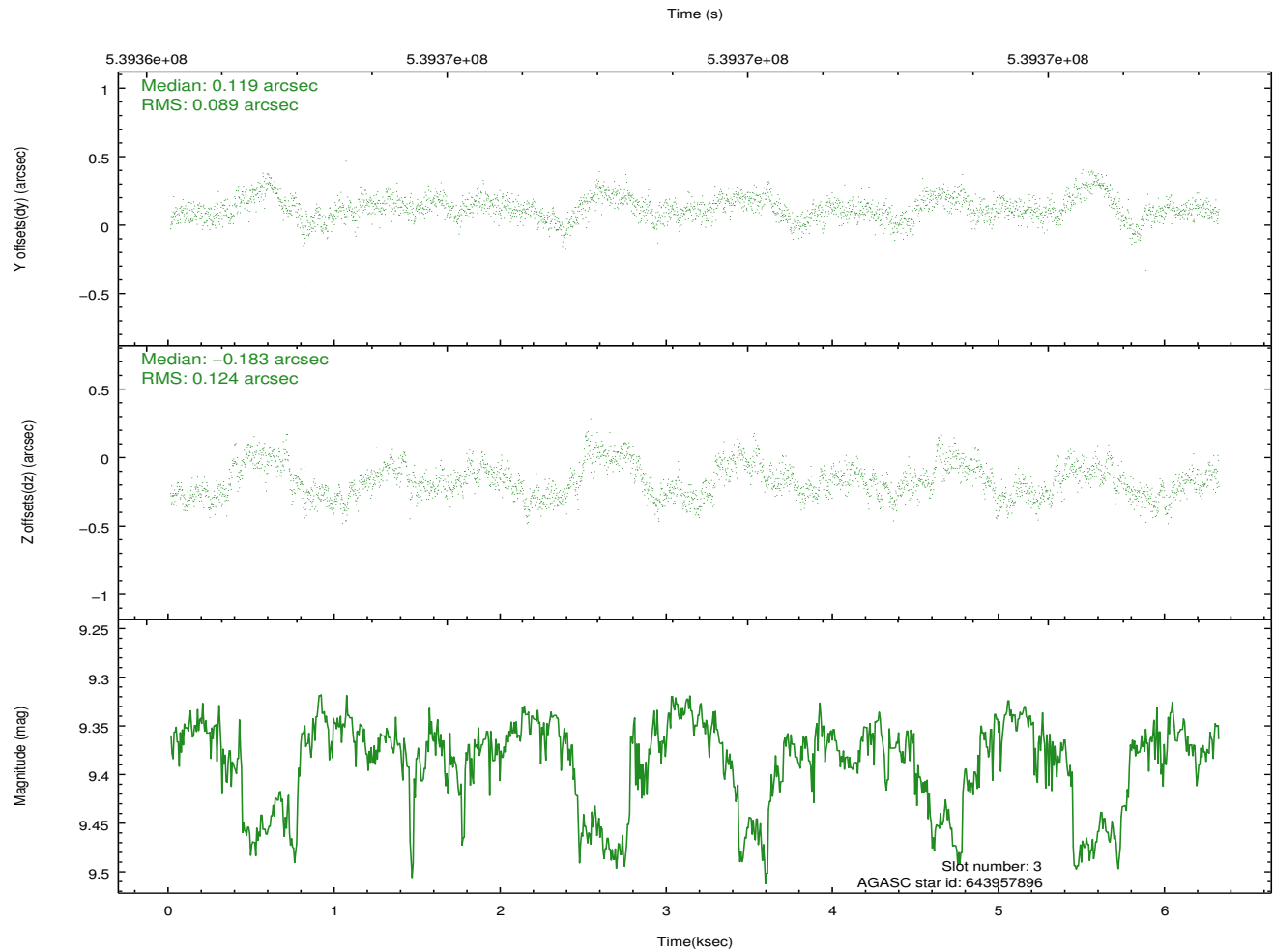
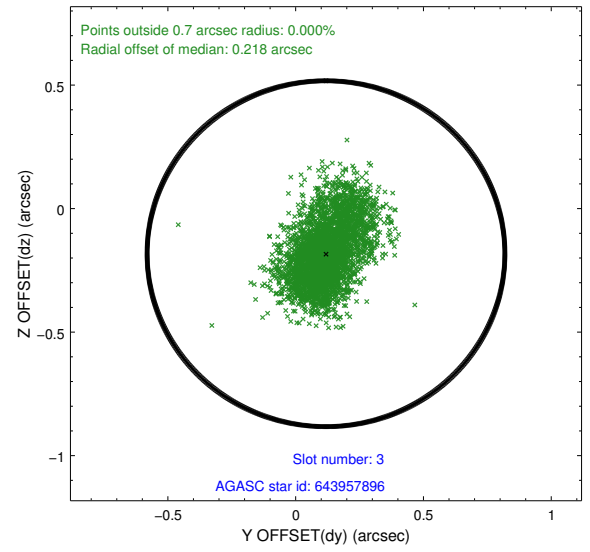
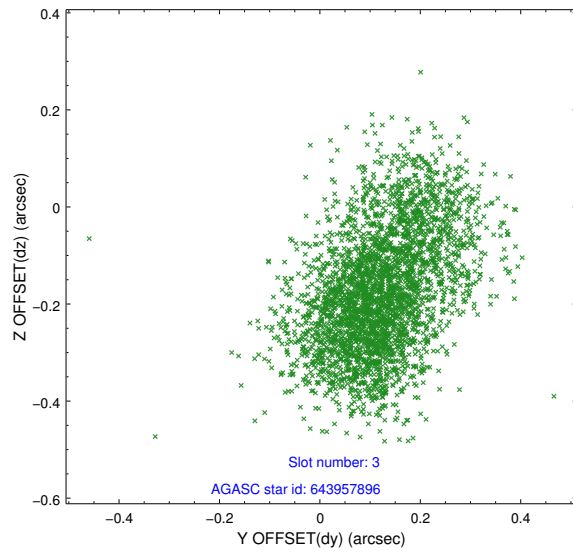


Slot Statistics

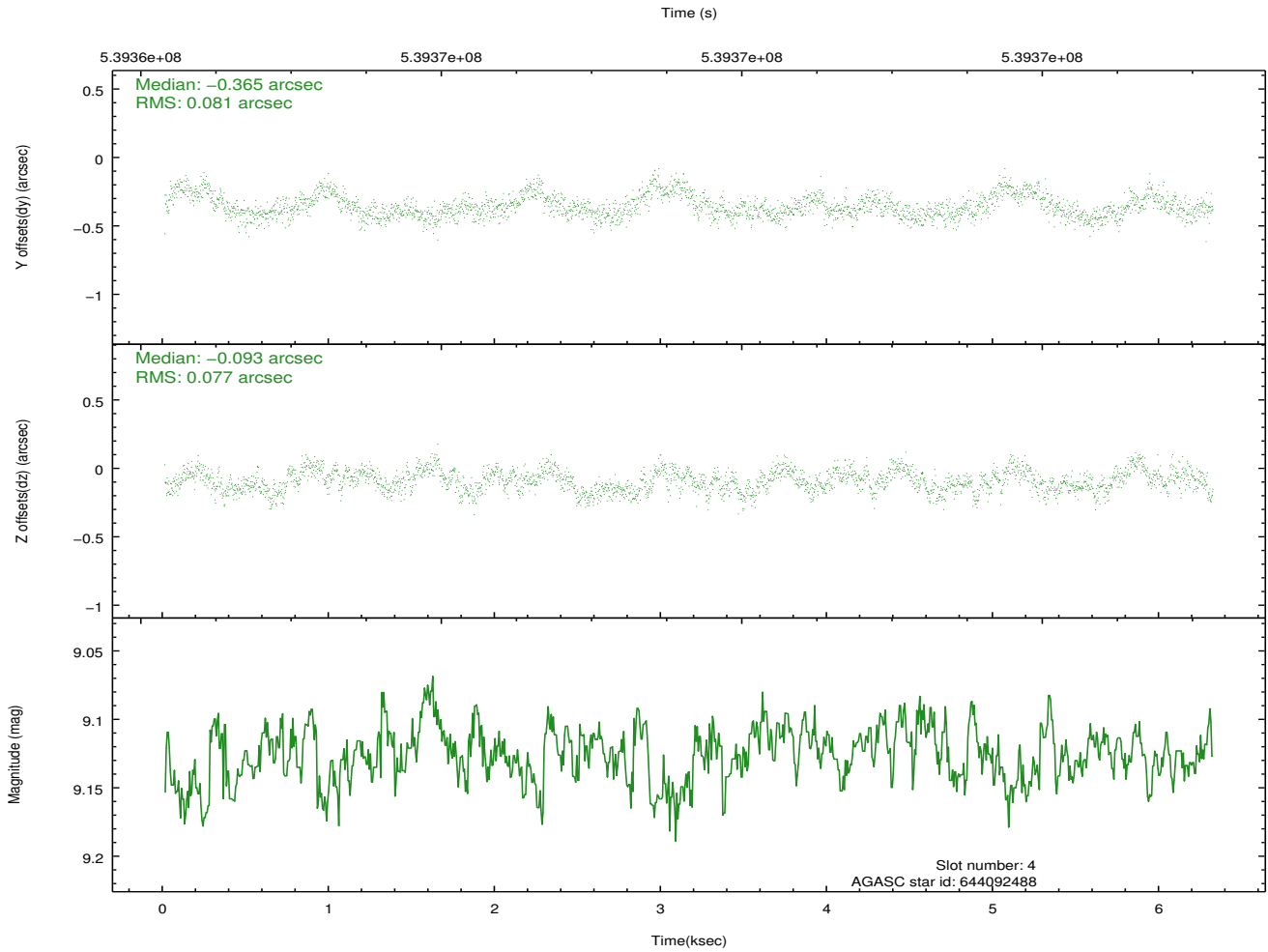
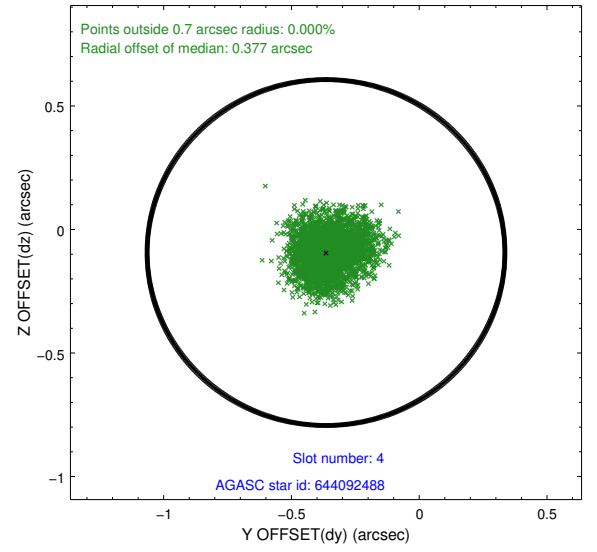
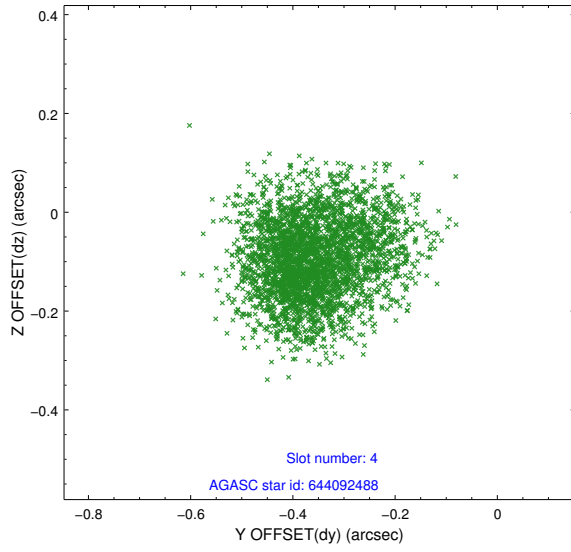
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.21	1540	0.048	0.031	0.006	0.011	0.000000	0.000000	917.88	-842.44
1	FID		ACIS-I-5	7.20	1540	-0.317	0.032	0.006	0.010	0.000000	0.000000	-1830.17	1054.45
2	FID		ACIS-I-6	7.21	1540	0.178	0.007	0.007	0.011	0.000000	0.000000	382.41	1700.09
3	GUIDE	used	643957896	9.38	3079	0.119	-0.183	0.164	0.269	162.396340	-2.429765	-83.78	1206.89
4	GUIDE	used	644092488	9.13	3080	-0.365	-0.093	0.121	0.191	162.738826	-2.056388	1733.00	1055.77
5	GUIDE	used	644353032	8.61	3078	0.188	-0.069	0.088	0.144	162.328305	-2.776141	-1219.07	635.58
6	GUIDE	used	644355120	8.48	3079	0.129	0.108	0.102	0.161	162.470500	-2.697282	-682.23	406.93
7	GUIDE	used	644481232	7.63	3079	-0.082	0.225	0.089	0.149	162.924700	-2.596613	603.94	-663.04

2.4 Star Slots

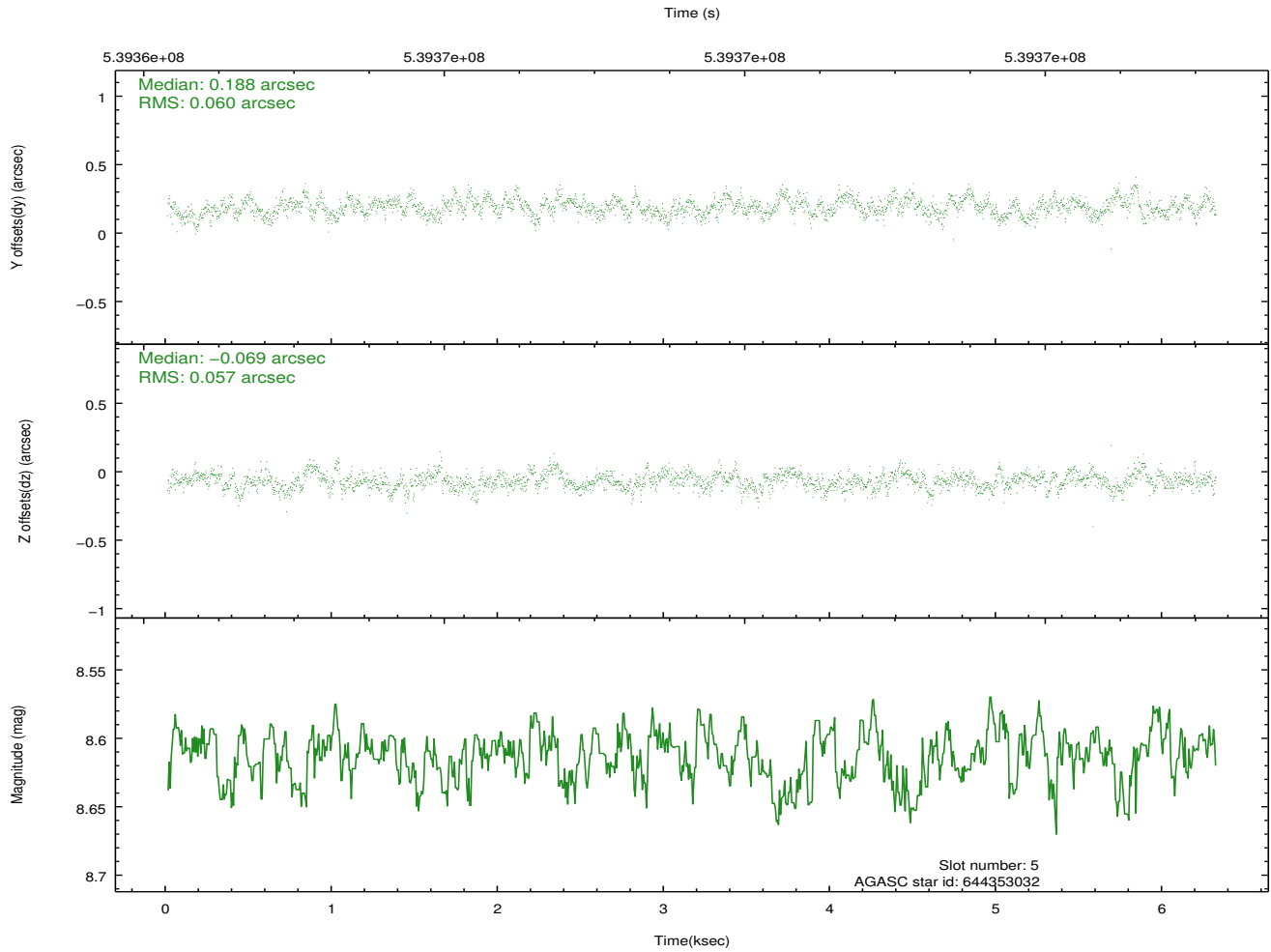
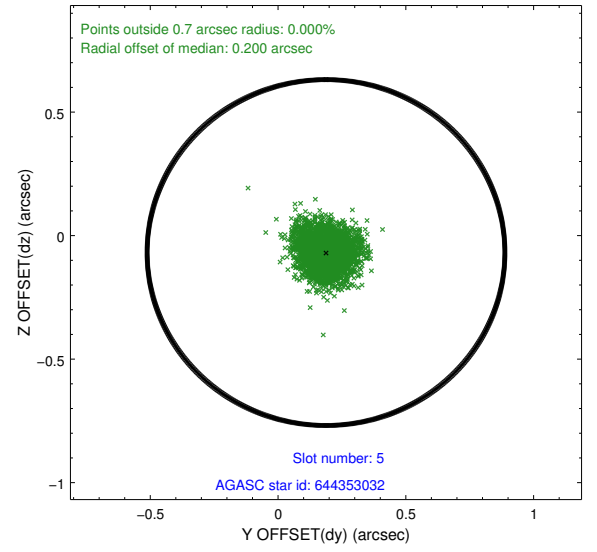
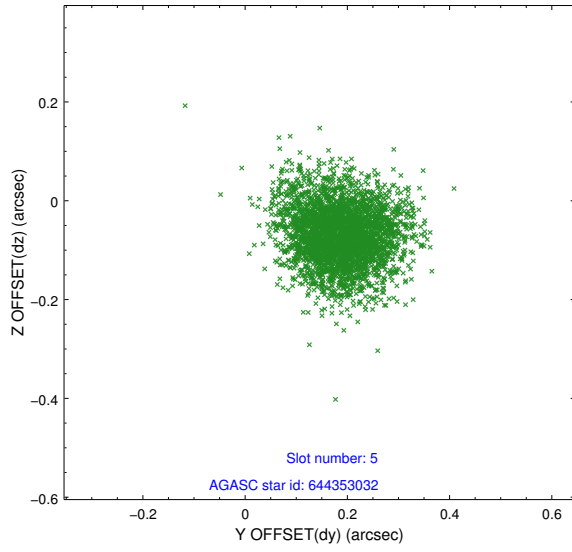
2.4.1 Slot 3



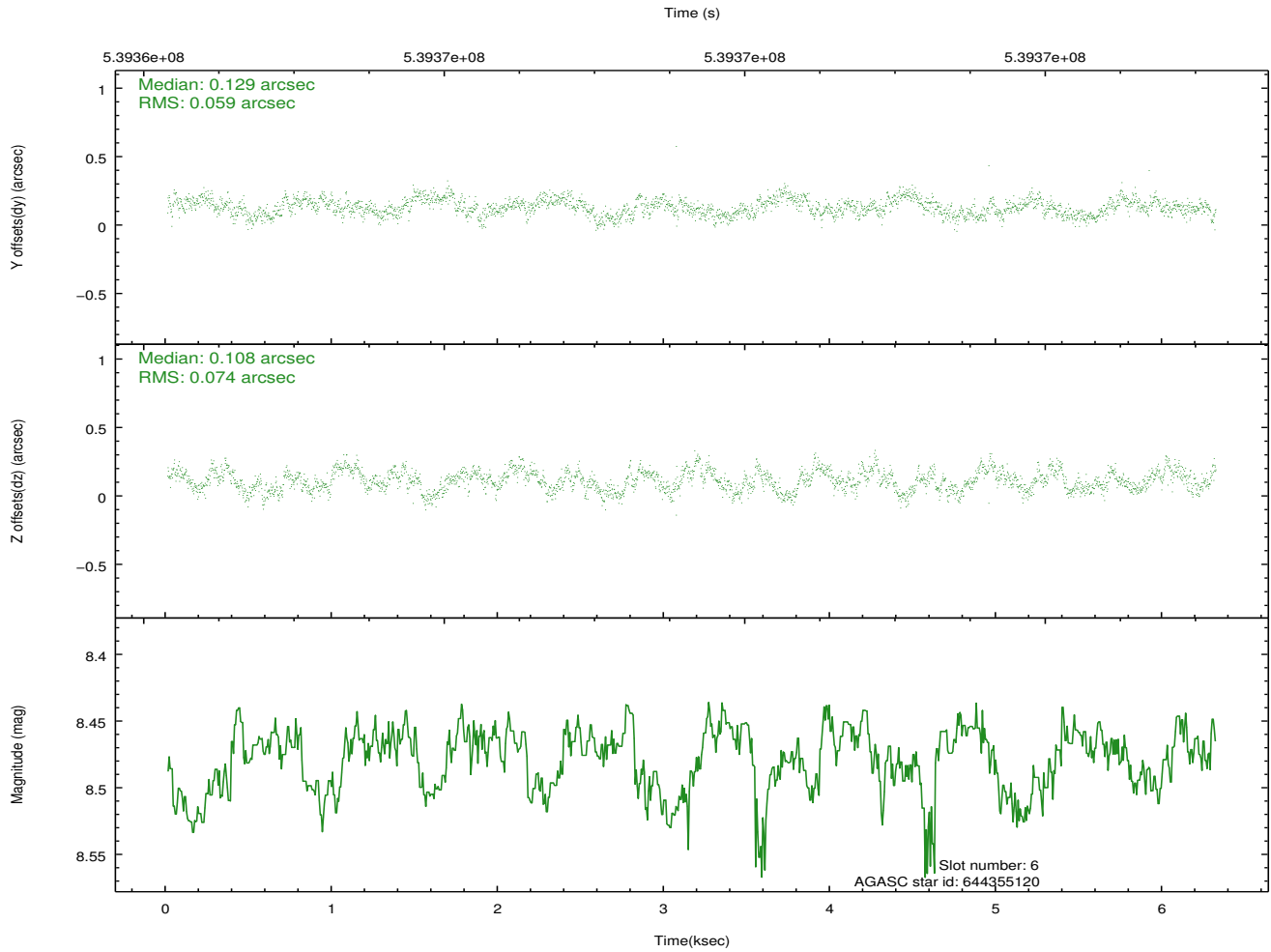
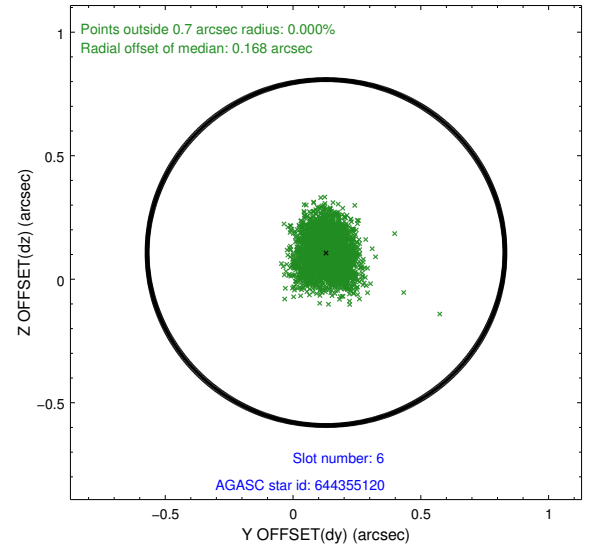
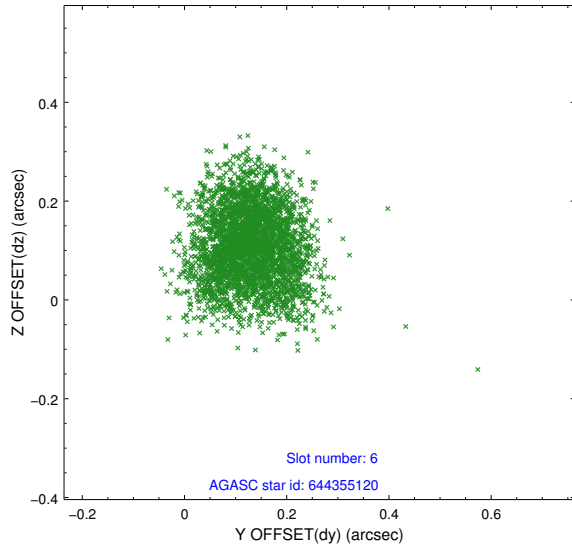
2.4.2 Slot 4



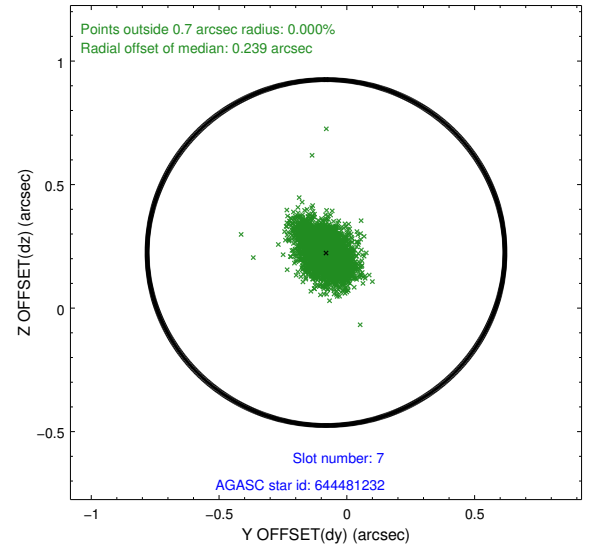
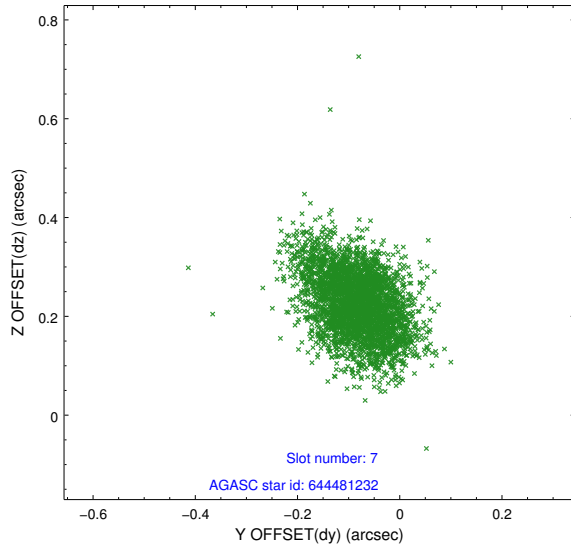
2.4.3 Slot 5



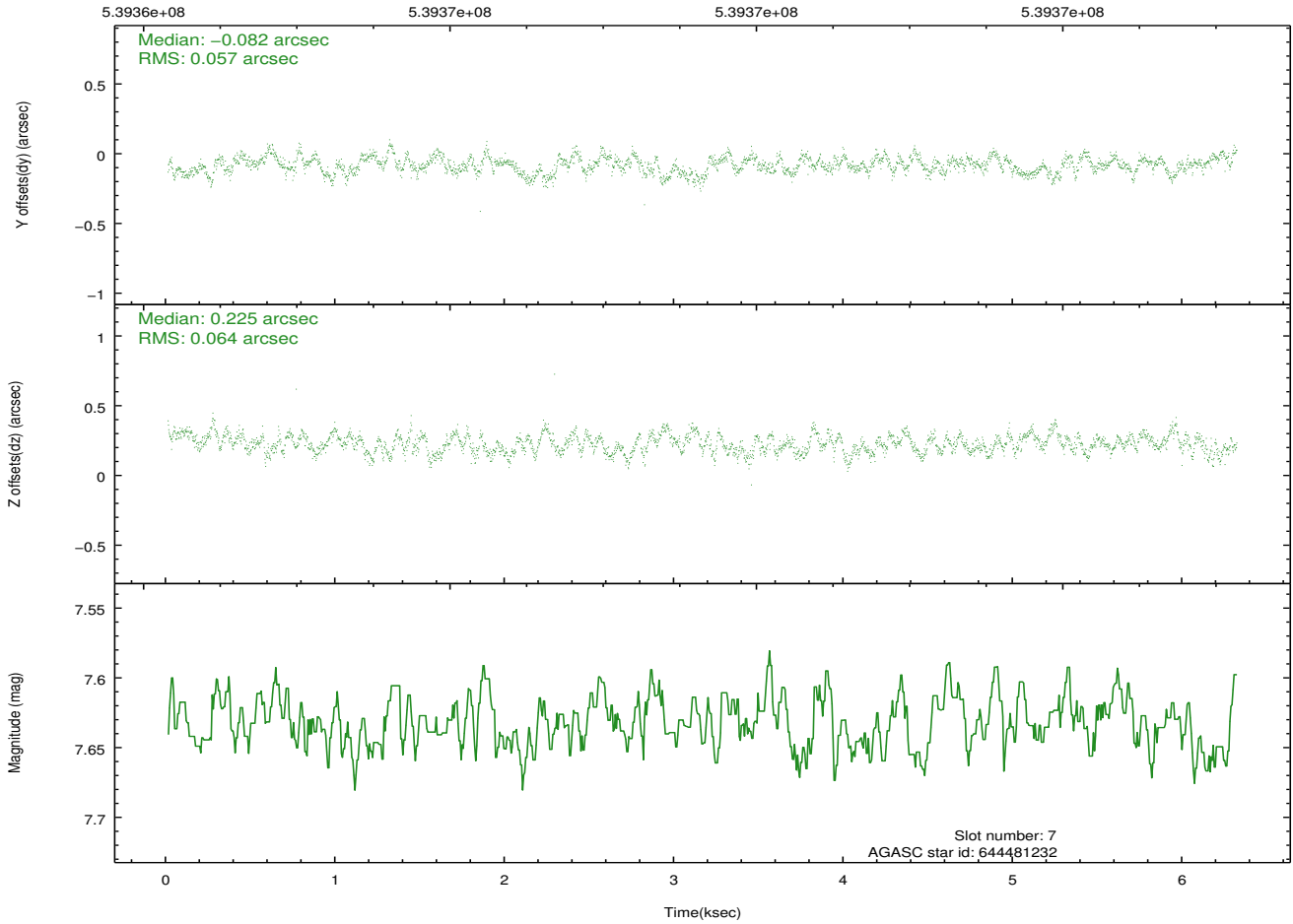
2.4.4 Slot 6



2.4.5 Slot 7

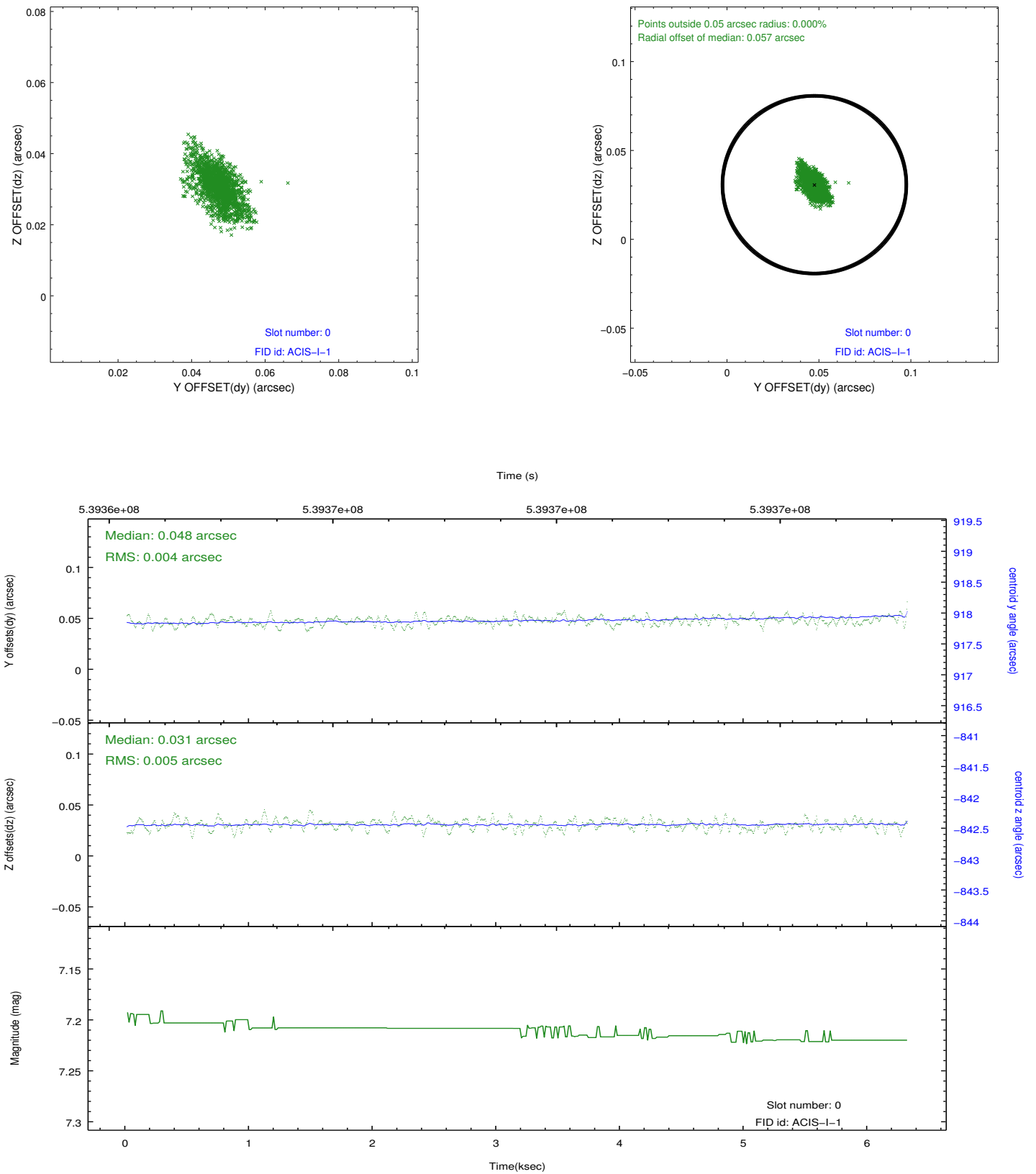


Time (s)

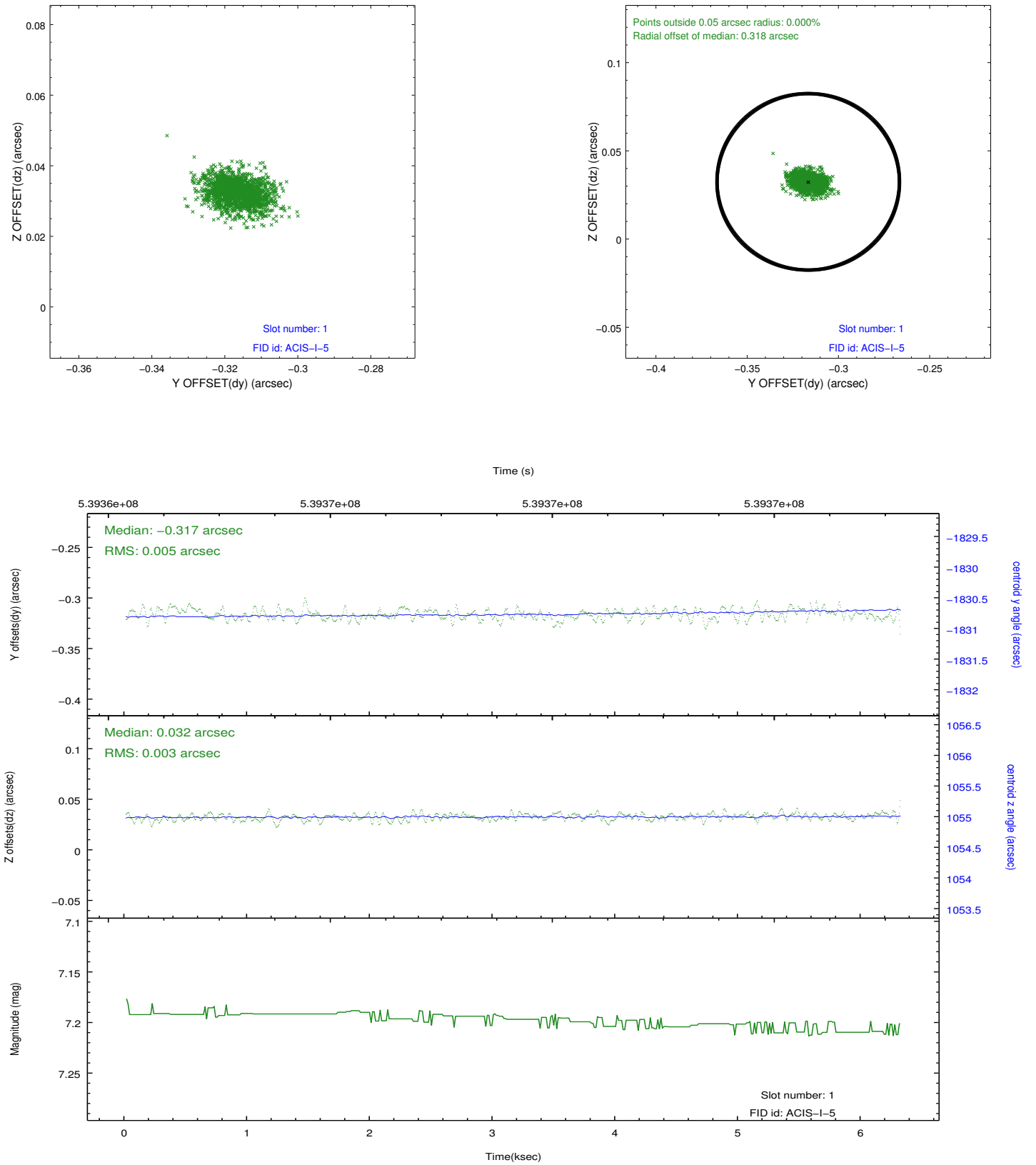


2.5 FID Slots

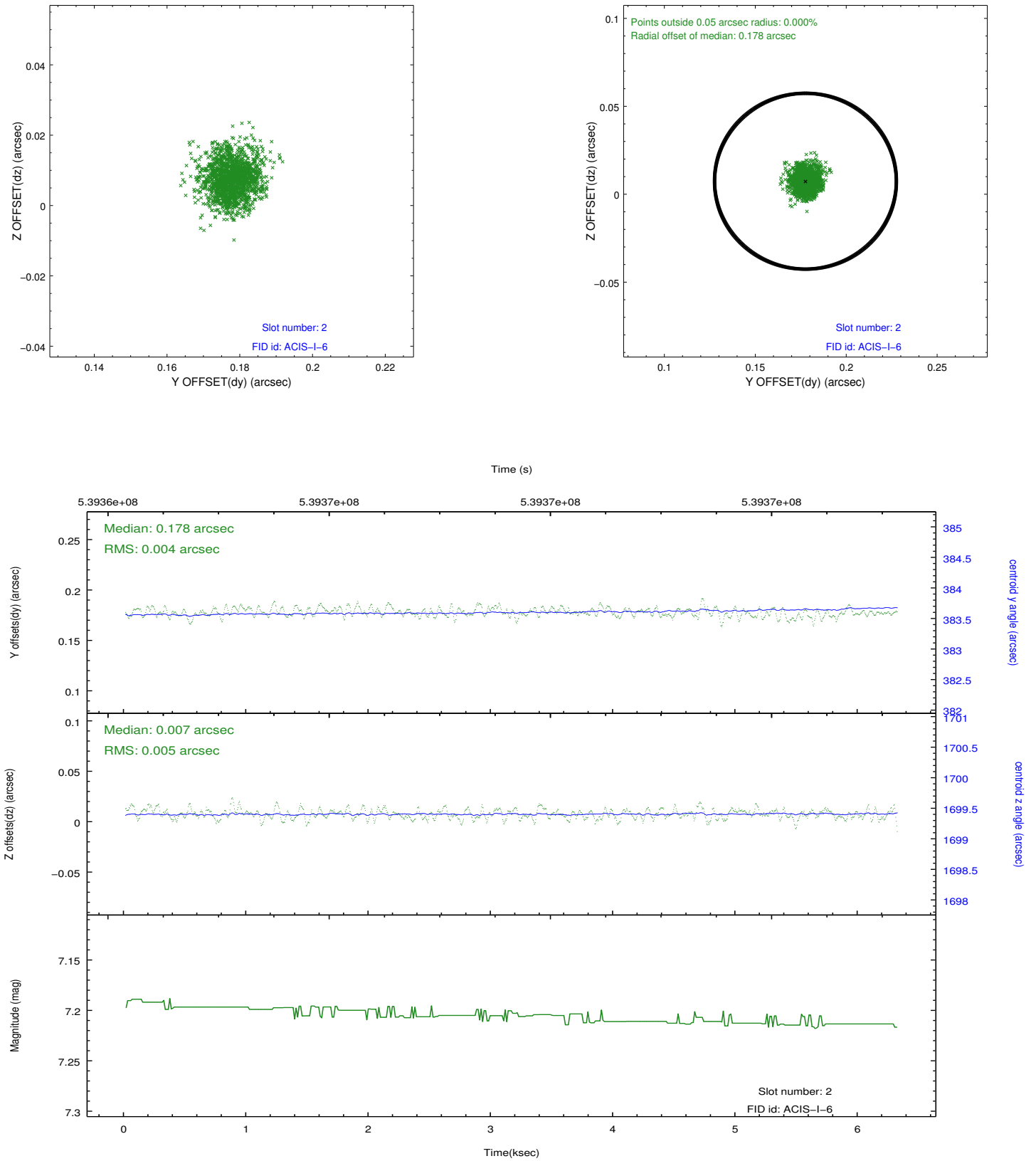
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1067977318764

A.2 Comments