

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16150 - L2 Version 1
Chandra X-Ray Center

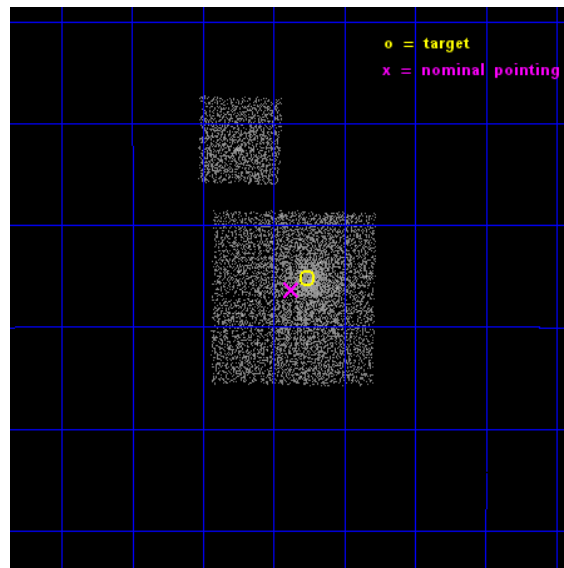
L2 Processing Date : Dec 10 2014

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1 Front

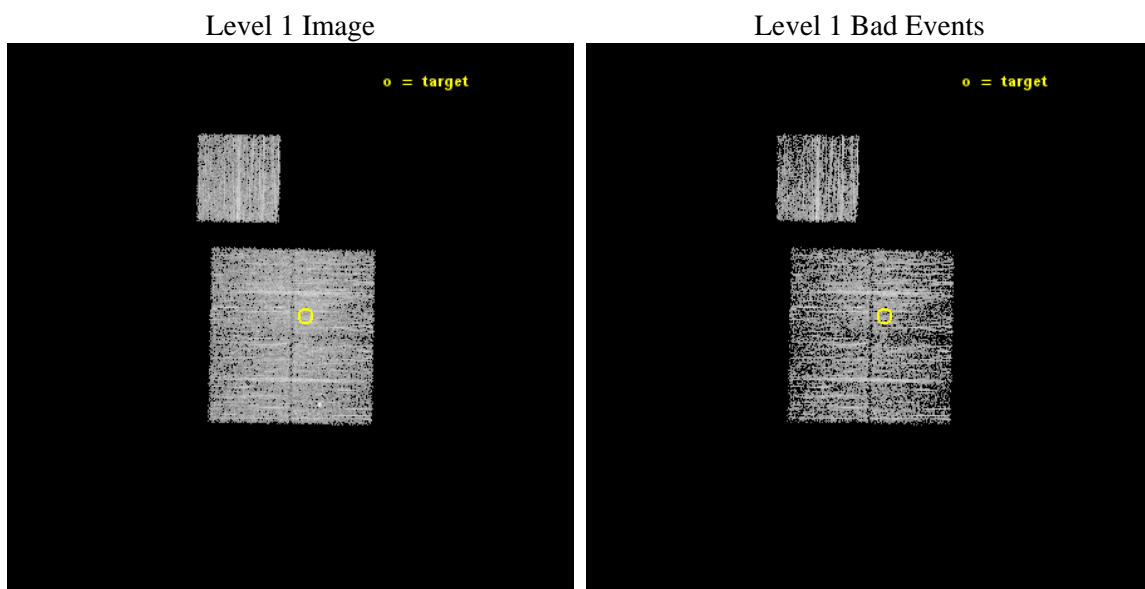
seq_num	801403	Sequence number
obs_id	16150	Observation id
title	Setting the Scale: Supporting precision cluster cosmology with Chandra observations of low-z lensing clusters	Proposal title
observer	Dr Adam Mantz	Principal investigator
object	RXJ0507.7-0915	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	76.940417	Observer's specified target RA [deg]
dec_targ	-9.254444	Observer's specified target Dec [deg]
ra_nom	76.968818097297	Nominal RA [deg]
dec_nom	-9.2724123861271	Nominal Dec [deg]
roll_nom	1.0792266795538	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5126.6353164315	Sum of GTIs [s]
livetime	5059.6520518483	Livetime [s]
ontime0	5126.5121964216	Sum of GTIs [s]
ontime1	5126.5532364249	Sum of GTIs [s]
ontime2	5126.5942764282	Sum of GTIs [s]
ontime3	5126.6353164315	Sum of GTIs [s]
ontime6	5126.4711564183	Sum of GTIs [s]
l2events	12059	Number of level 2 events



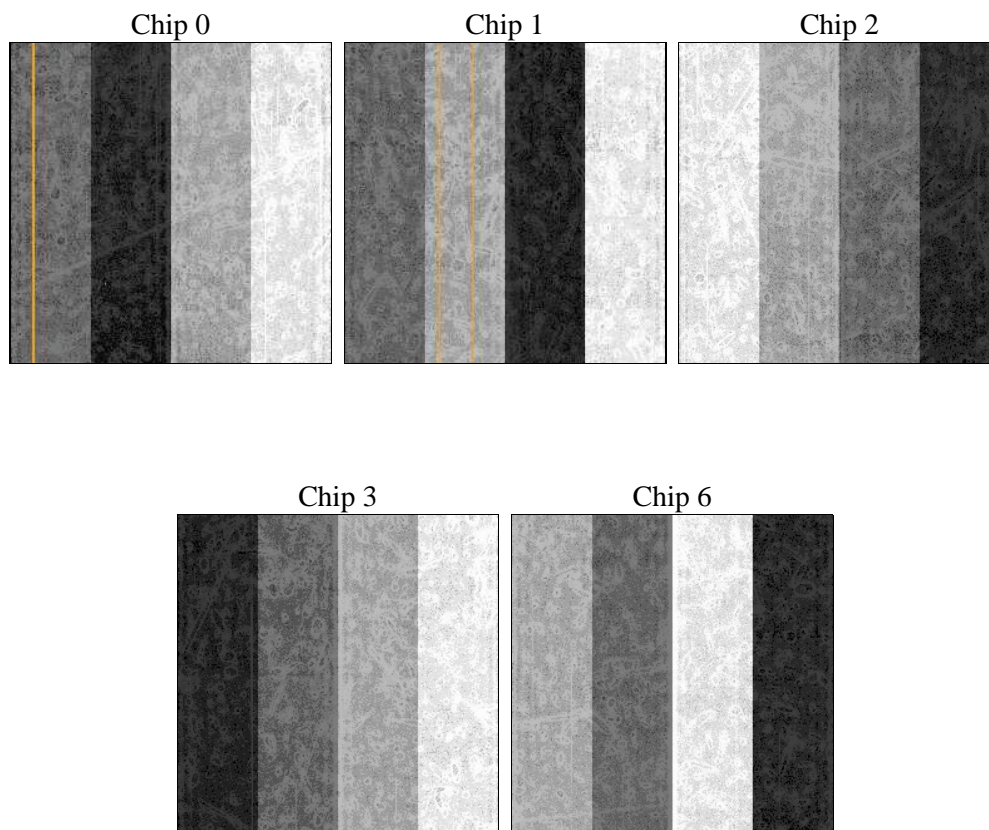
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5126.6353164315	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5126.5121964216	Sum of GTIs [s]
date	2014-12-10T12:02:34	Date and time of file creation	ontime1	5126.5532364249	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5126.5942764282	Sum of GTIs [s]
			ontime3	5126.6353164315	Sum of GTIs [s]
			ontime6	5126.4711564183	Sum of GTIs [s]
			l1events	101859	Number of level 1 events

2.1.4 Events

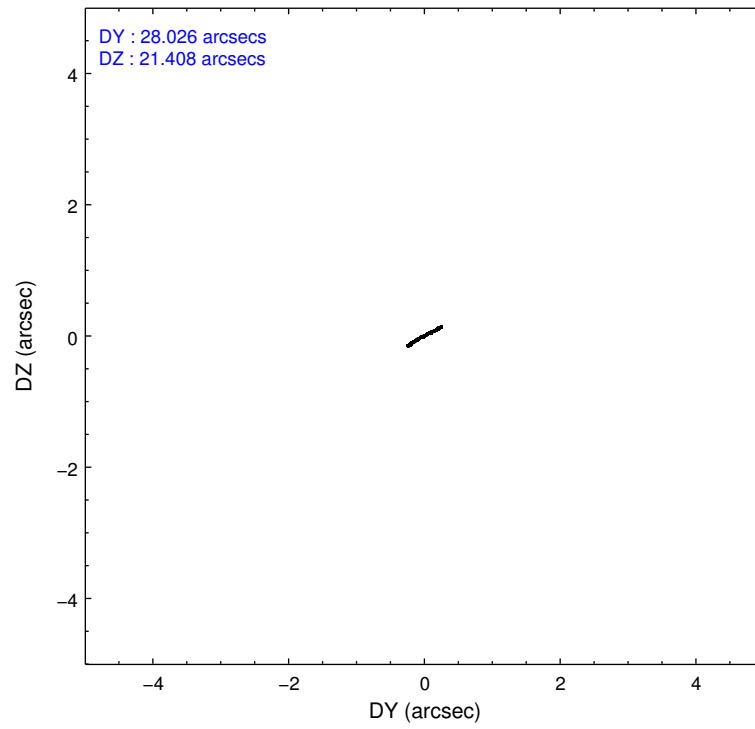
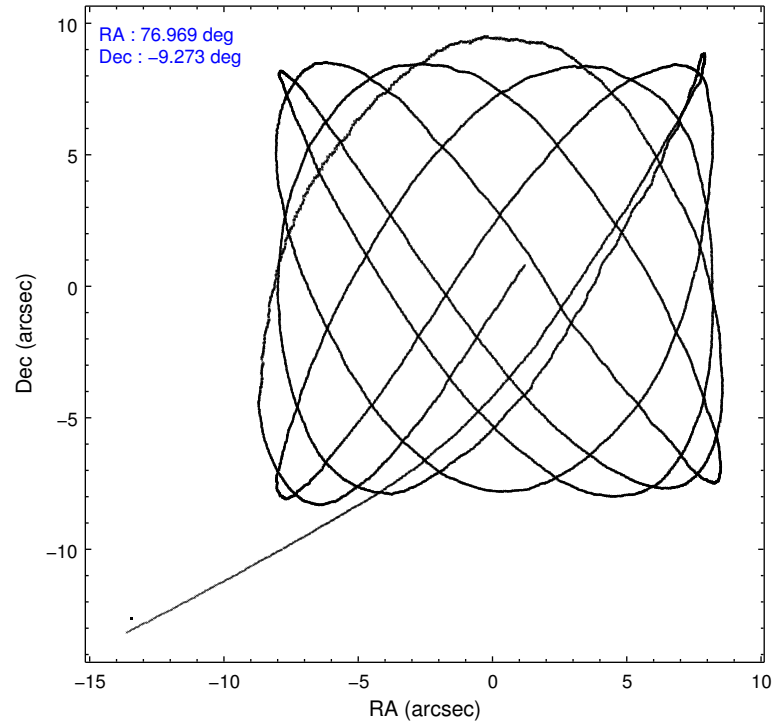
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	19238	19302	19703	22266	21350
rejected events	16772	16099	17079	18568	18981
rejected %	87%	83%	86%	83%	88%

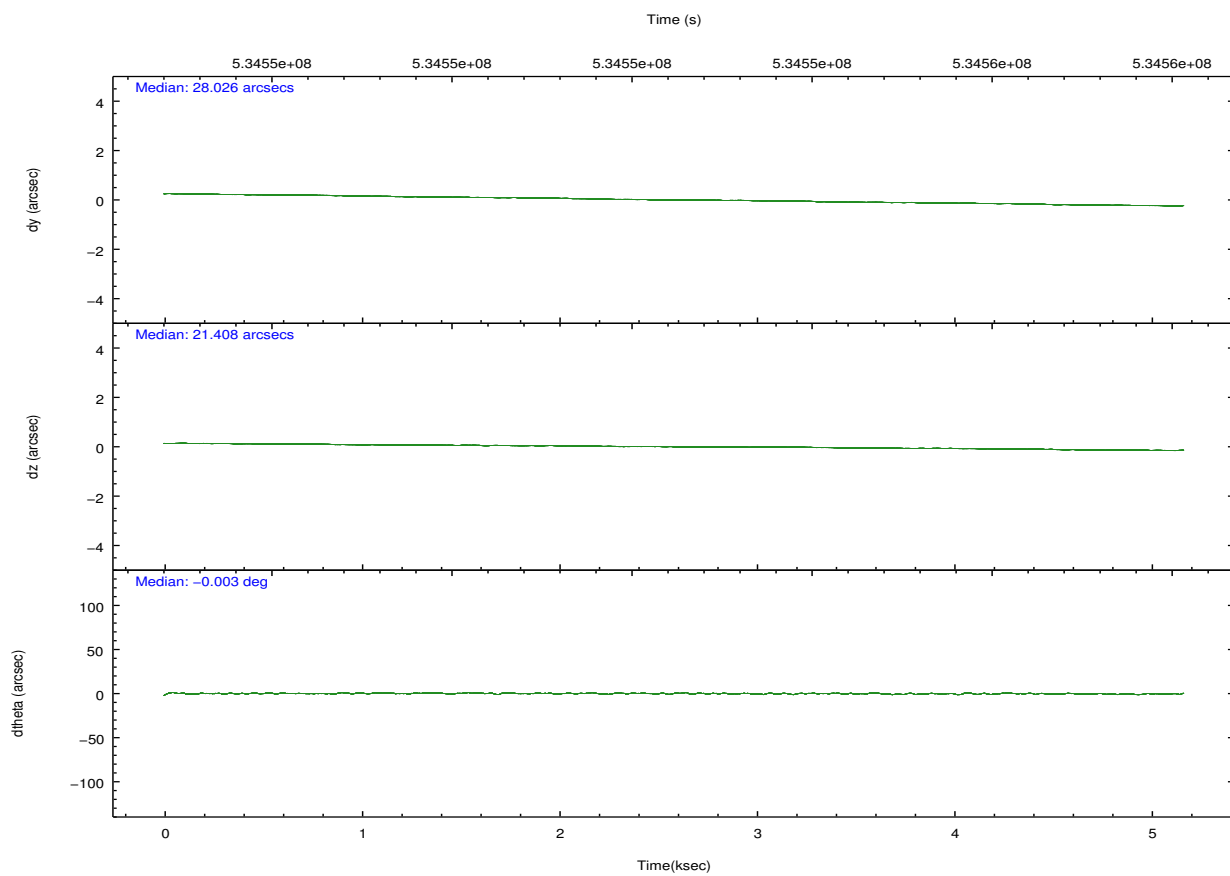
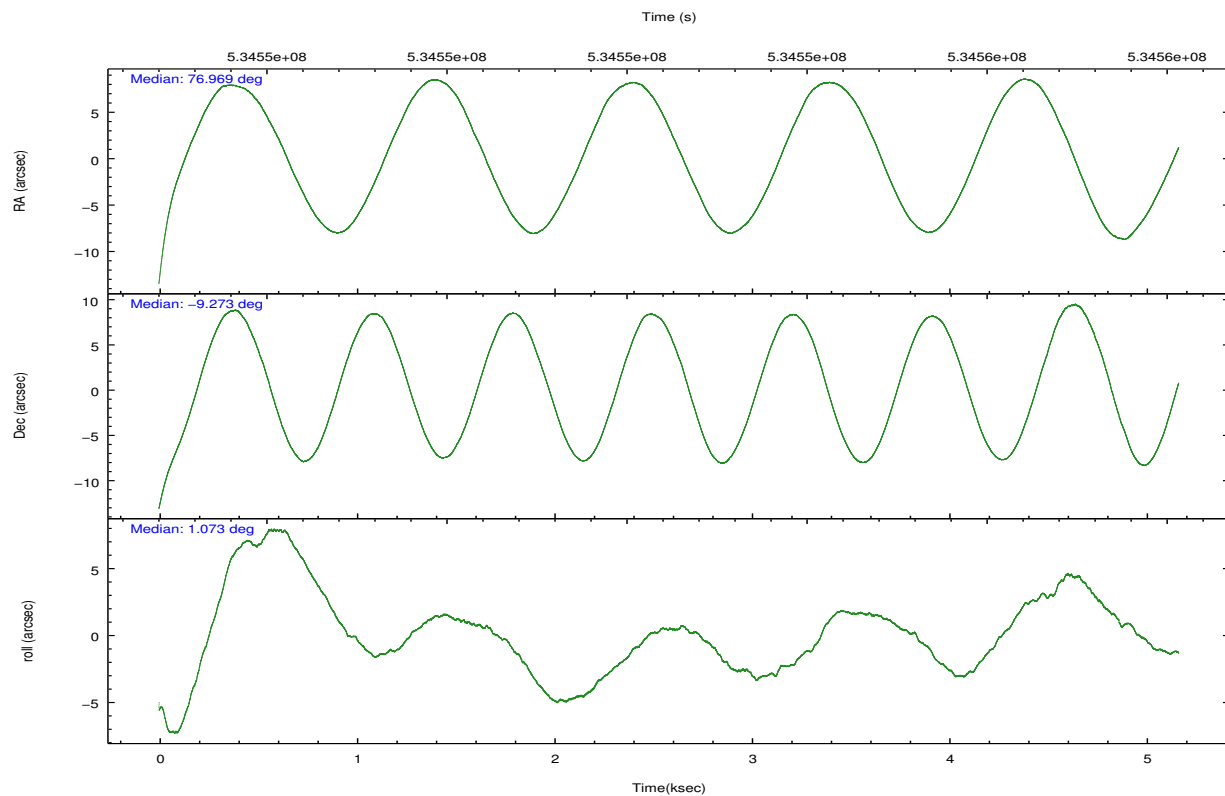
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1019	1515	1142	2077	923
	5%	7%	5%	9%	4%
grade 1 events	11	17	12	18	8
	0%	0%	0%	0%	0%
grade 2 events	585	652	622	657	514
	3%	3%	3%	2%	2%
grade 3 events	242	277	244	295	244
	1%	1%	1%	1%	1%
grade 4 events	237	250	242	254	221
	1%	1%	1%	1%	1%
grade 5 events	670	753	661	770	706
	3%	3%	3%	3%	3%
grade 6 events	385	513	377	420	468
	2%	2%	1%	1%	2%
grade 7 events	16089	15325	16403	17775	18266
	83%	79%	83%	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	76.944962	76.96881809729652	CCD I2 on	Y	Y
[deg] Pointing Dec	-9.286718	-9.272412386127105	CCD I3 on	Y	Y
[deg] Pointing Roll	0.866678	1.079226679553816	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	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	534550816.184000	534549501.2206	CCD S5 on	N	N
Observation start date	2014-12-09T22:19:09	2014-12-09T21:58:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	534555816.184000	534556397.93348	On-chip summing requested	N	N
Observation end date	2014-12-09T23:42:29	2014-12-09T23:53:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



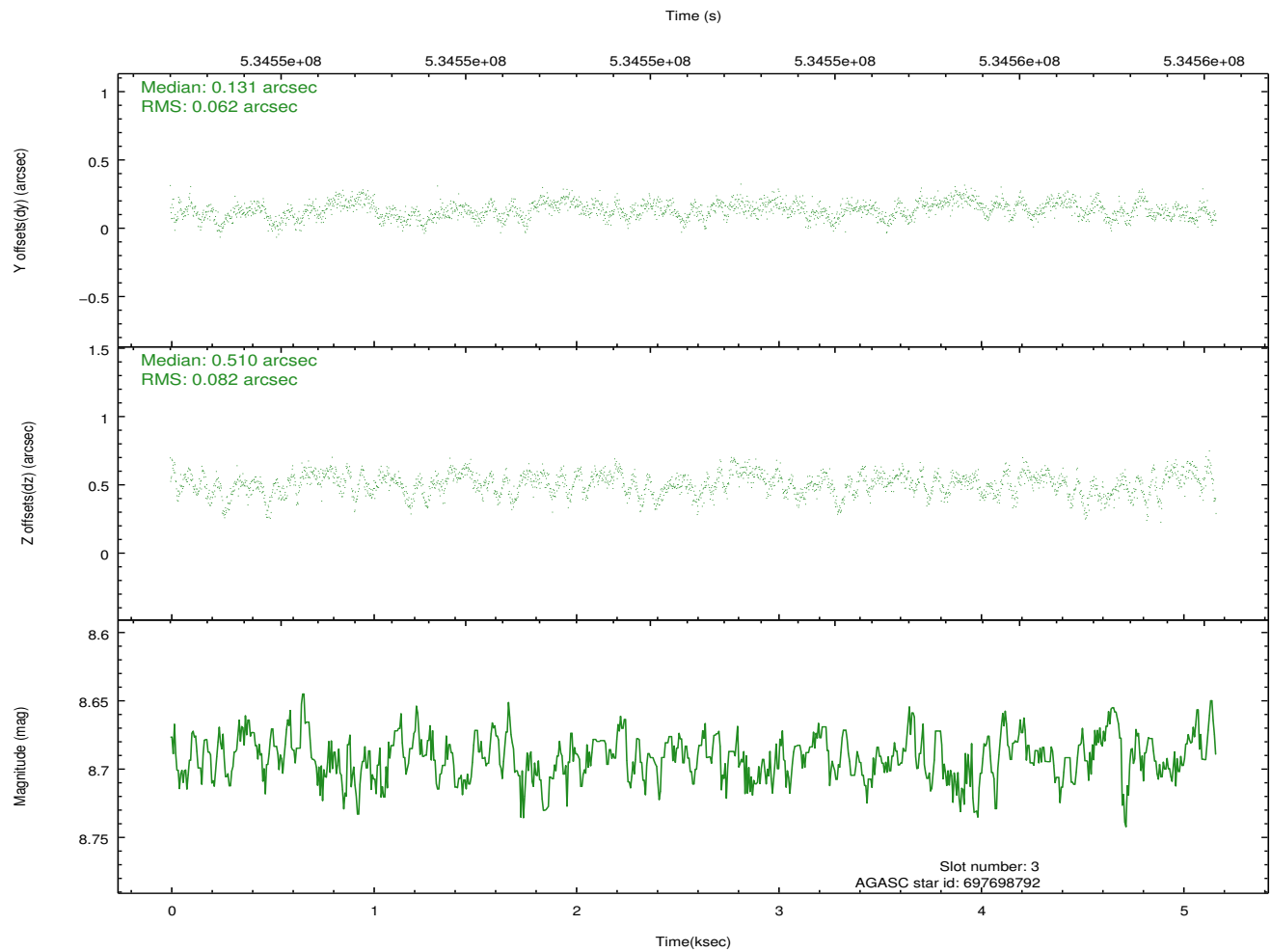
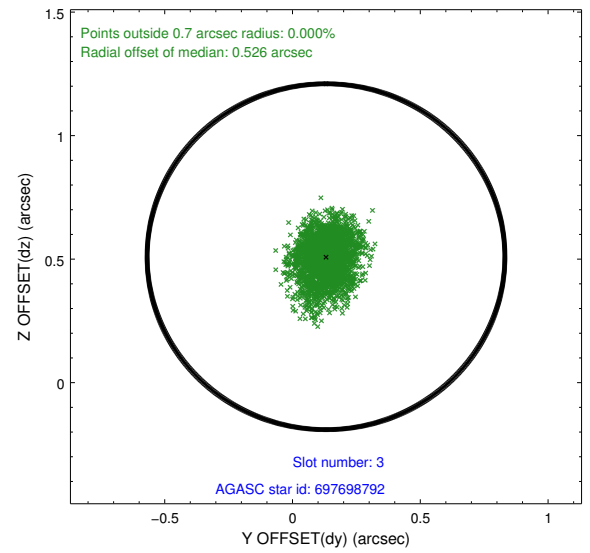
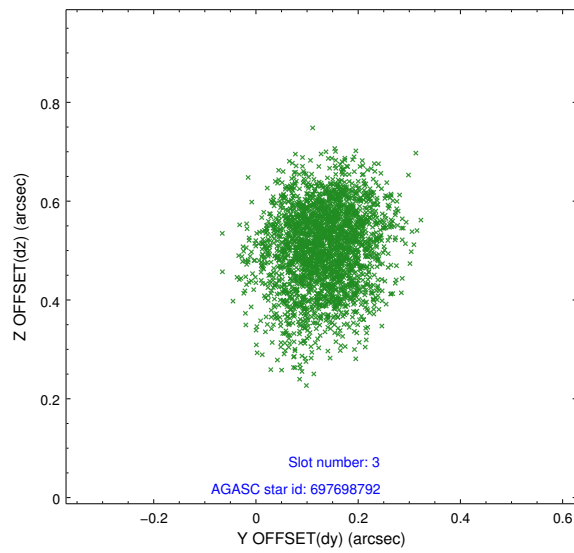


Slot Statistics

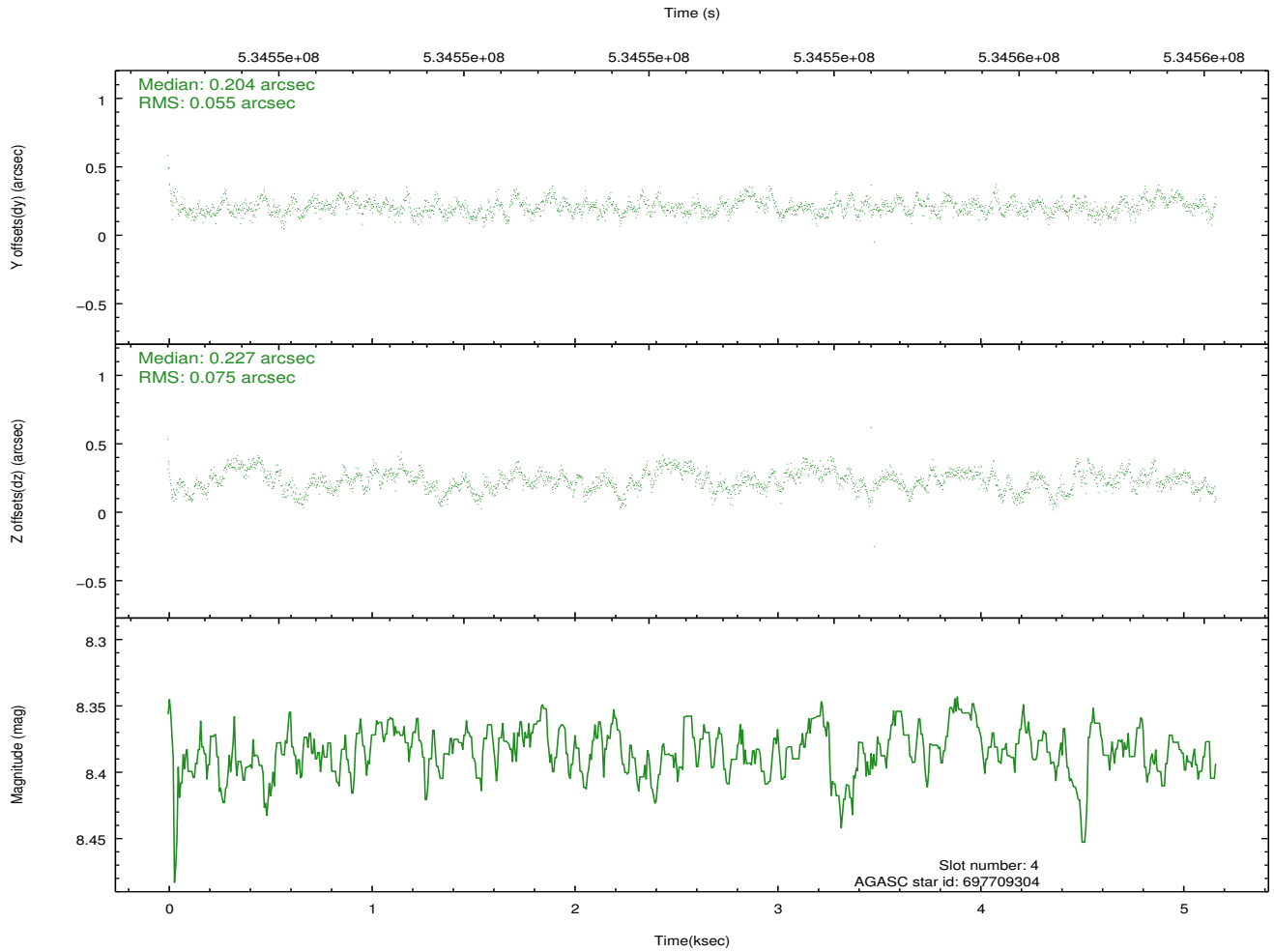
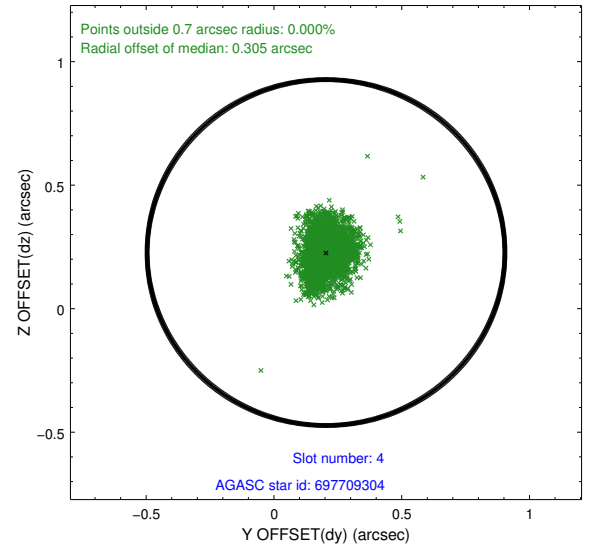
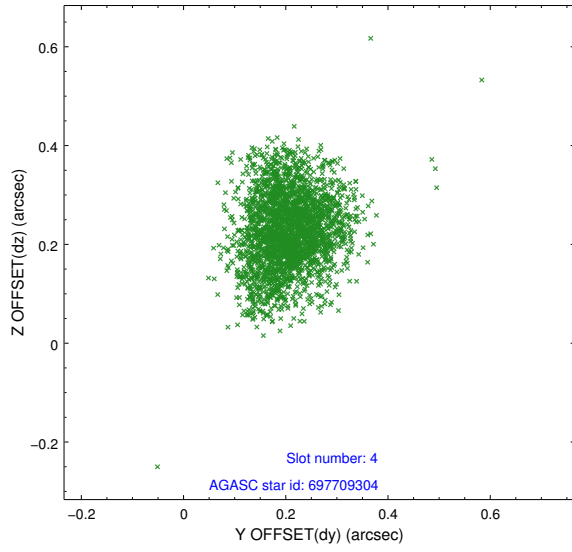
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	1260	0.062	-0.045	0.006	0.011	0.000000	0.000000	911.15	-845.19
1	FID		ACIS-I-5	7.25	1261	-0.313	0.032	0.006	0.011	0.000000	0.000000	-1836.74	1051.71
2	FID		ACIS-I-6	7.25	1260	0.160	0.084	0.007	0.012	0.000000	0.000000	375.44	1697.65
3	GUIDE	used	697698792	8.69	2520	0.131	0.510	0.111	0.177	76.371077	-9.826561	-2064.07	-1913.45
4	GUIDE	used	697709304	8.38	2520	0.204	0.227	0.098	0.159	76.429303	-9.430457	-1838.94	-491.36
5	GUIDE	used	698622792	8.94	2517	-0.296	-0.217	0.119	0.194	77.035840	-9.106586	332.27	643.52
6	GUIDE	used	698627528	7.53	2521	-0.276	-0.657	0.116	0.184	76.859458	-8.653152	-269.76	2285.22
7	GUIDE	used	699148080	9.21	2519	0.231	0.128	0.136	0.210	76.608640	-9.688479	-1214.28	-1426.64

2.4 Star Slots

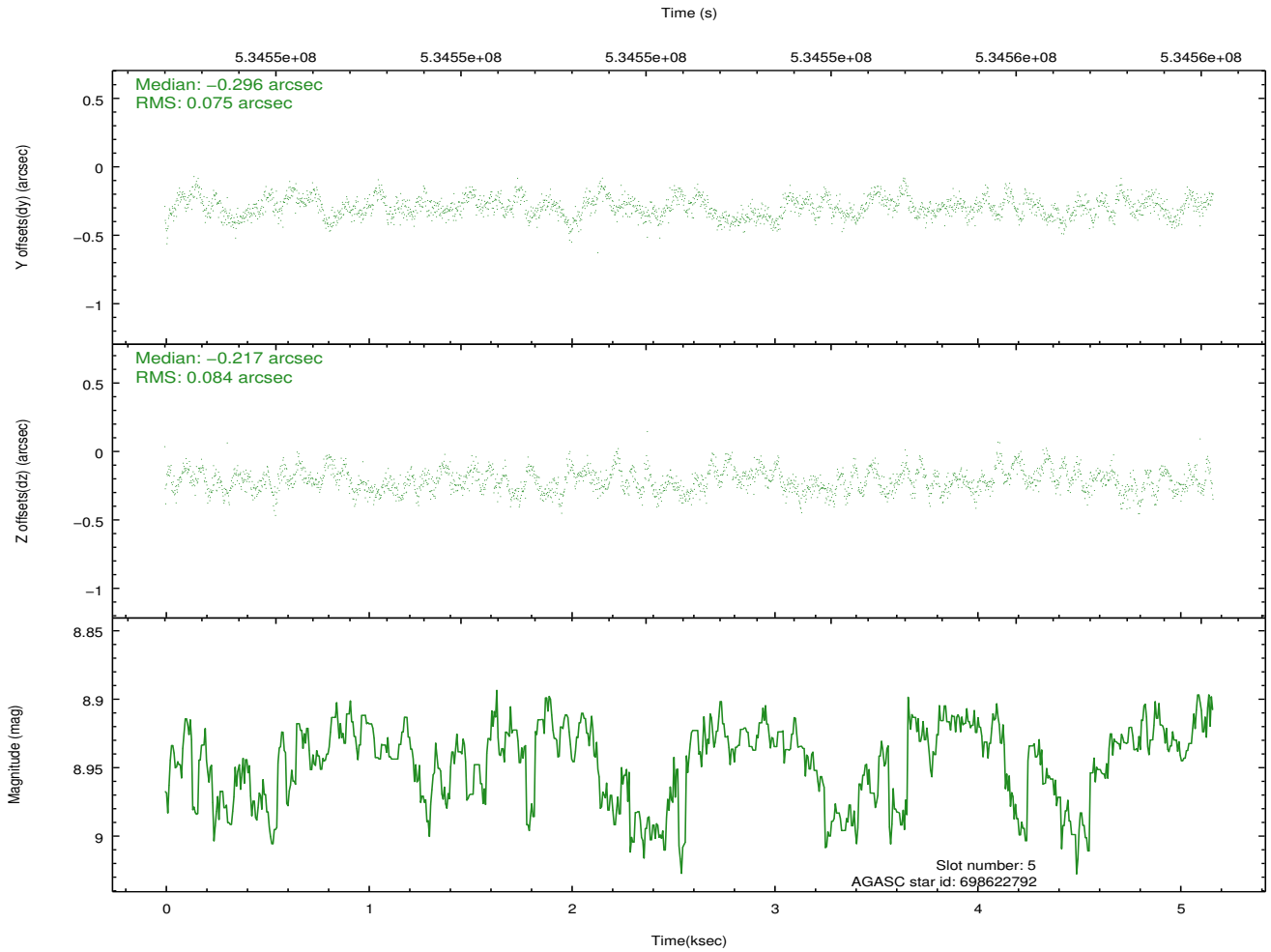
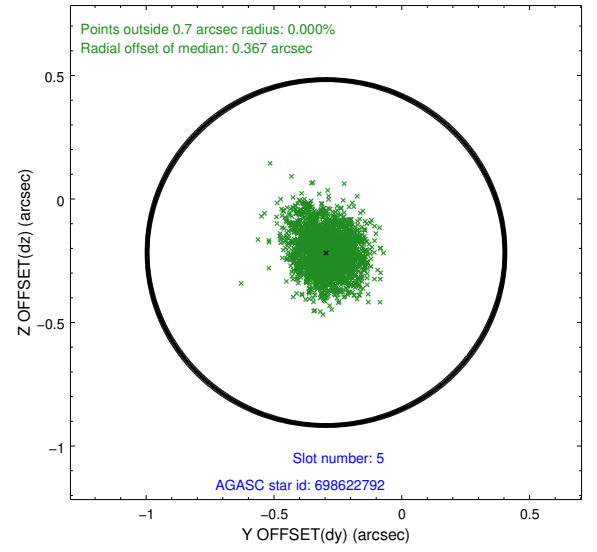
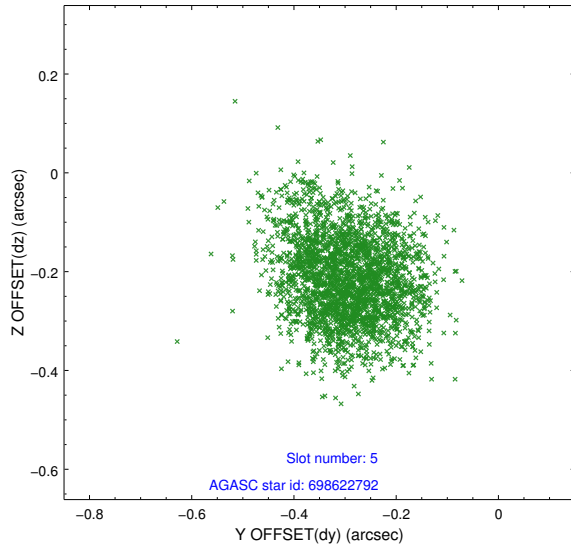
2.4.1 Slot 3



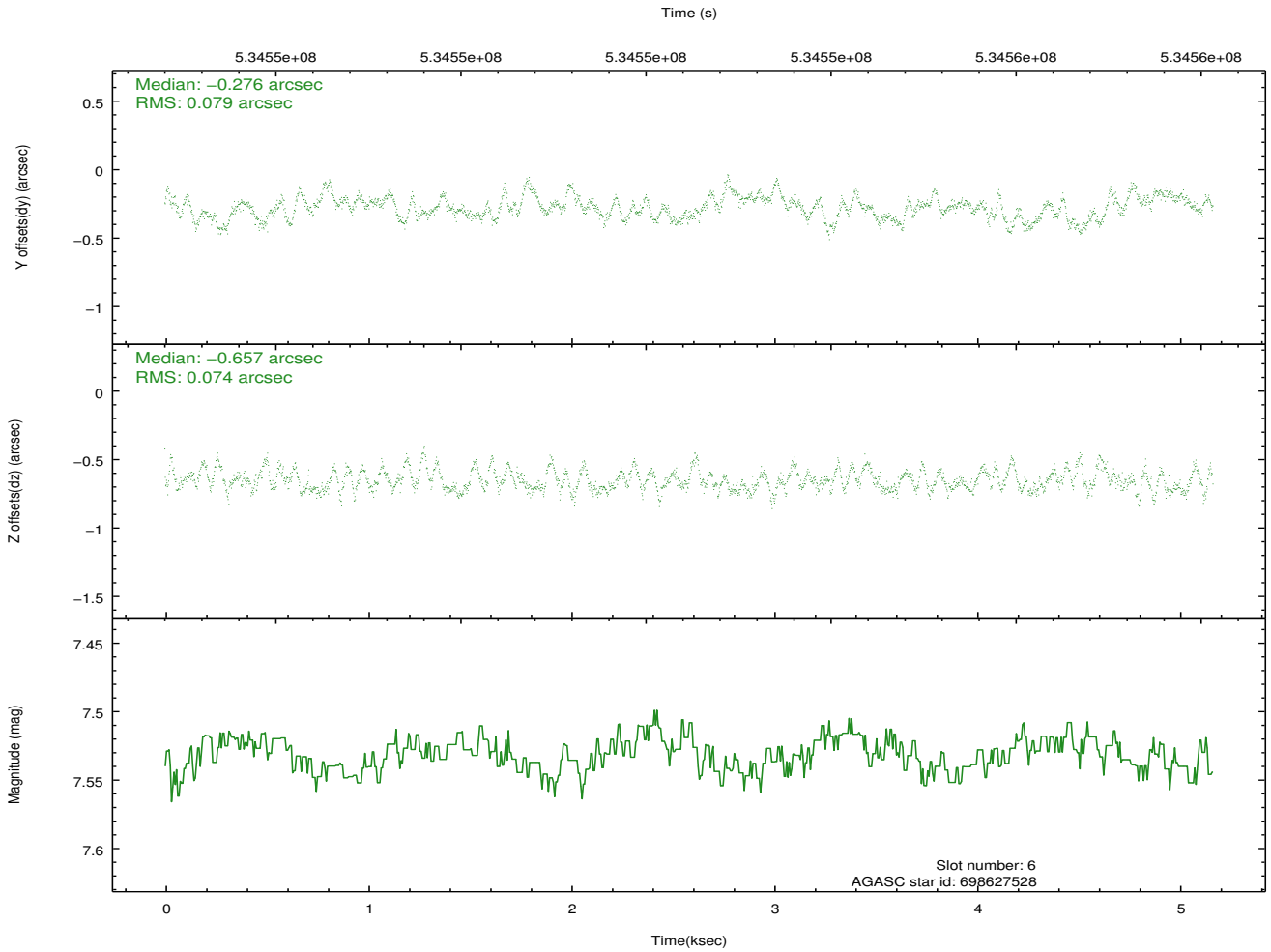
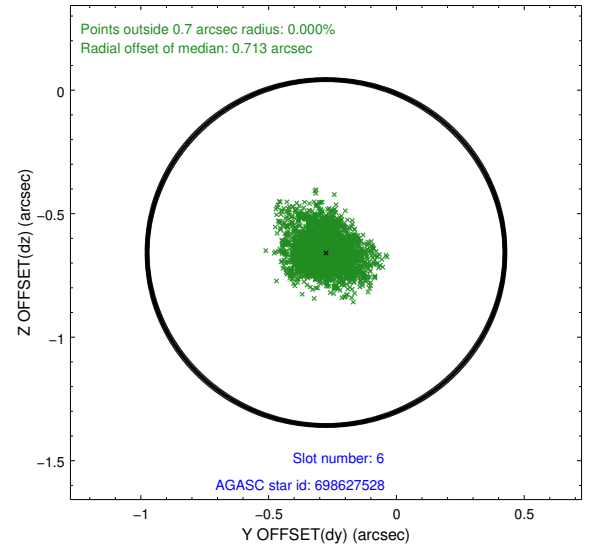
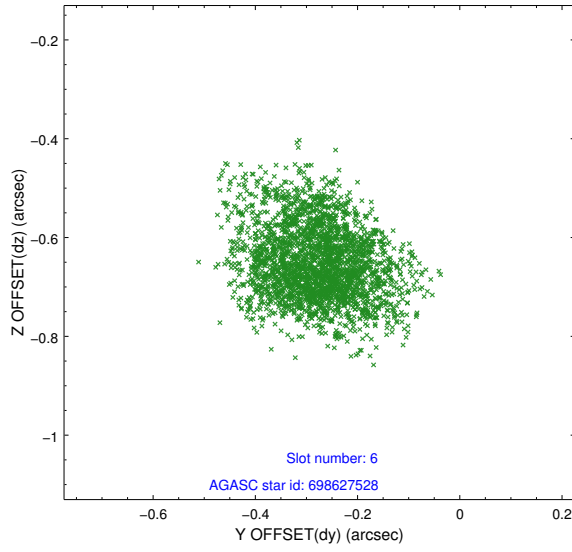
2.4.2 Slot 4



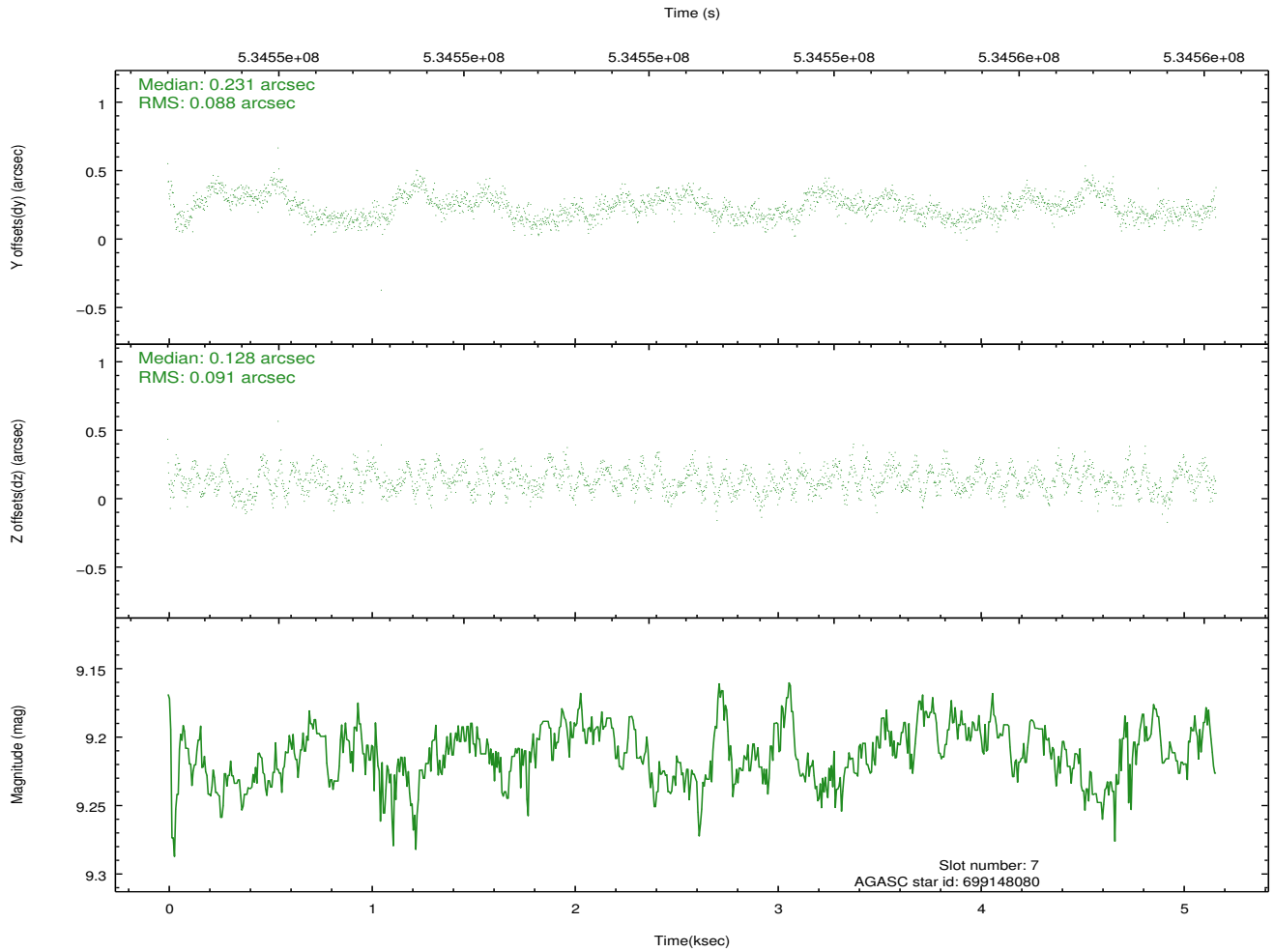
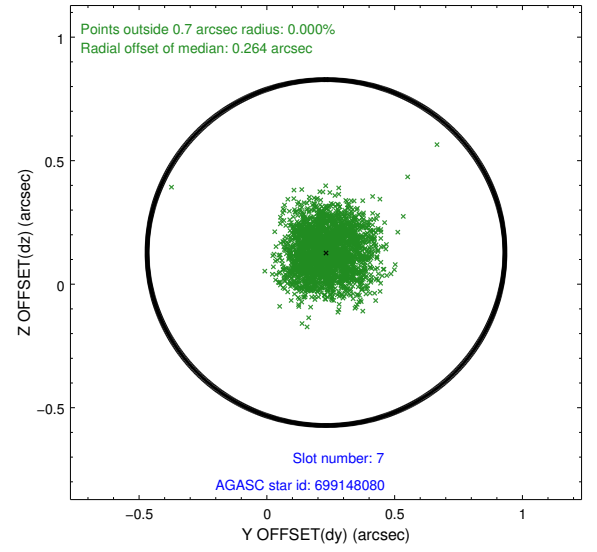
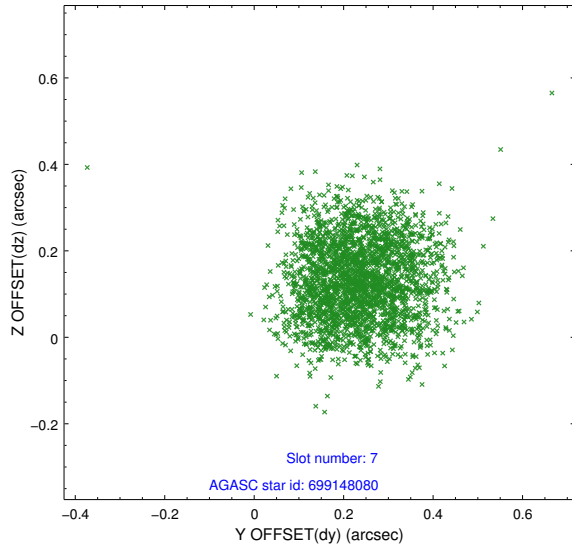
2.4.3 Slot 5



2.4.4 Slot 6

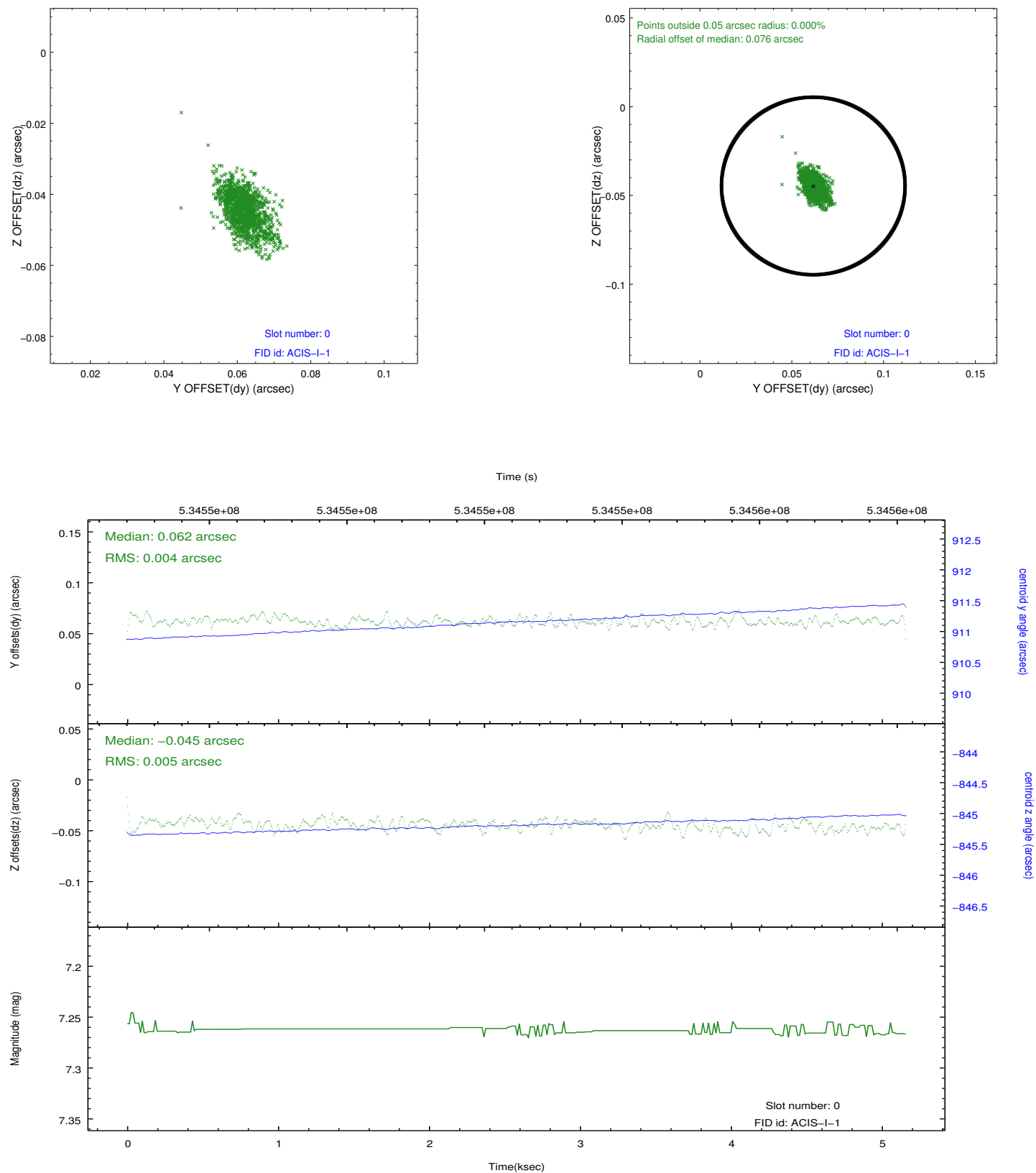


2.4.5 Slot 7

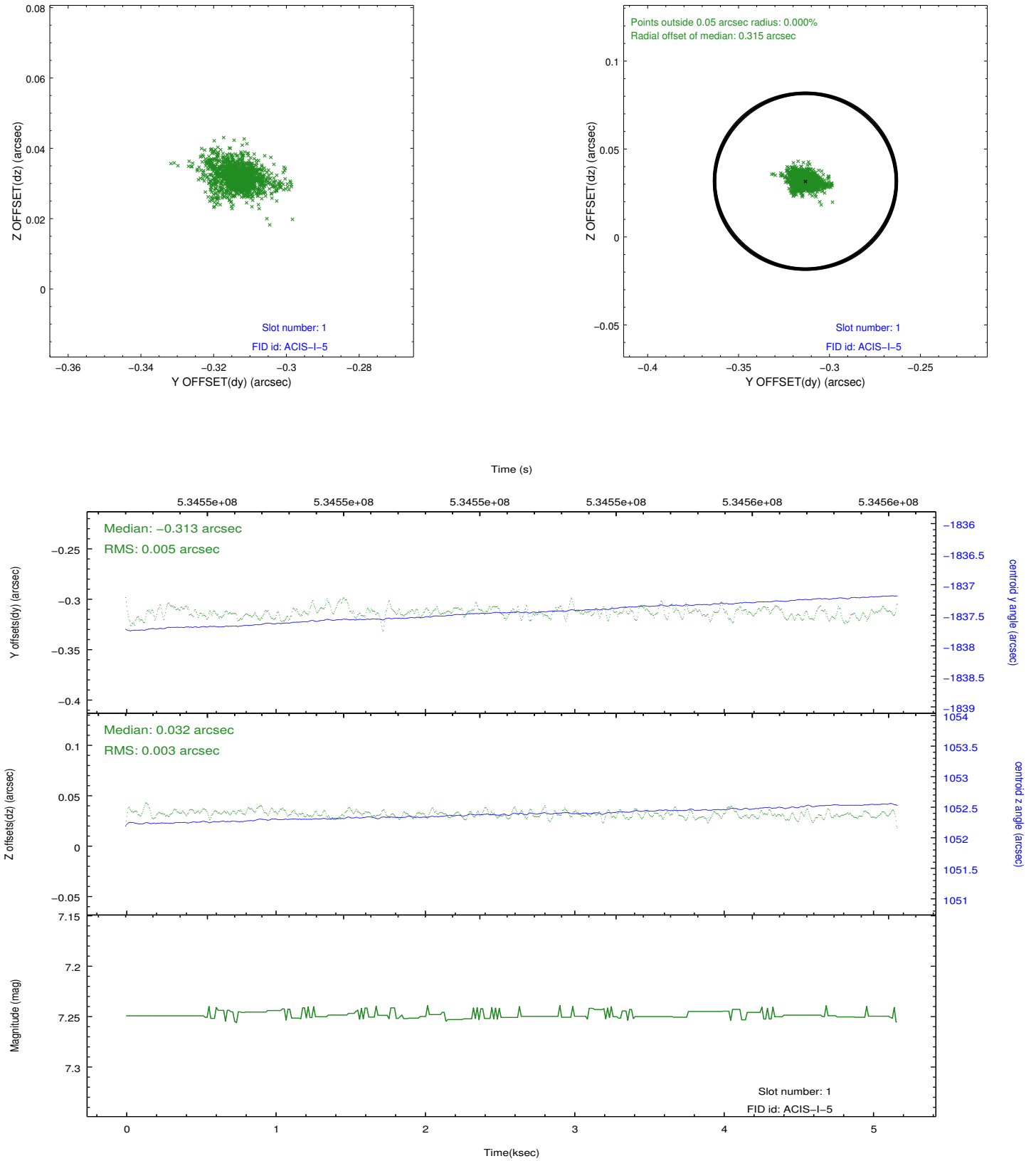


2.5 FID Slots

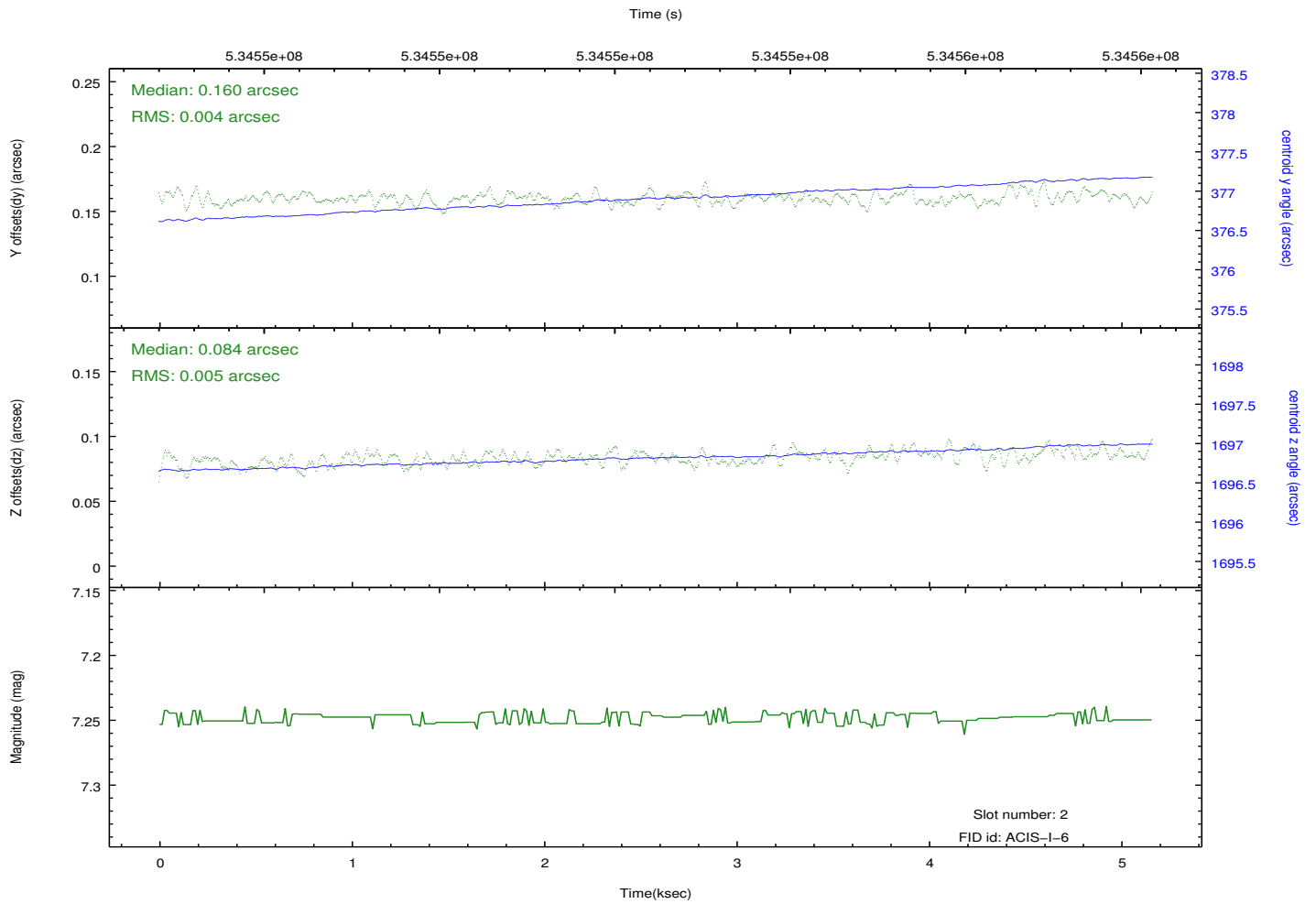
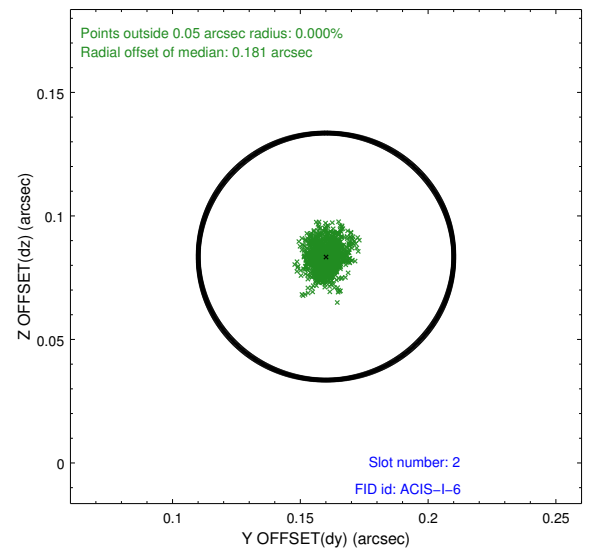
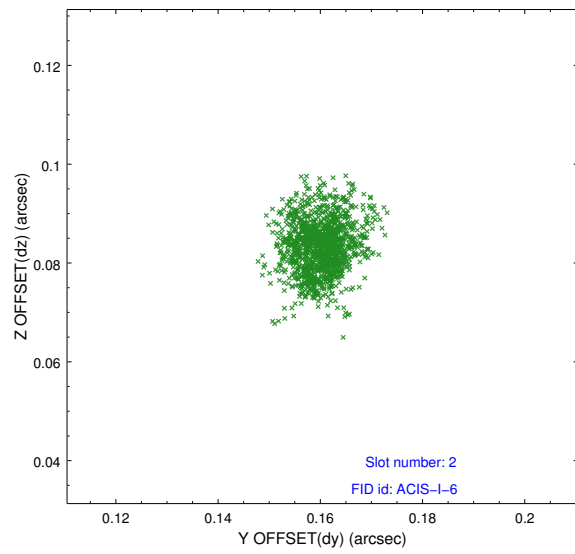
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1266353164315

A.2 Comments