

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10796 - L2 Version 2
Chandra X-Ray Center

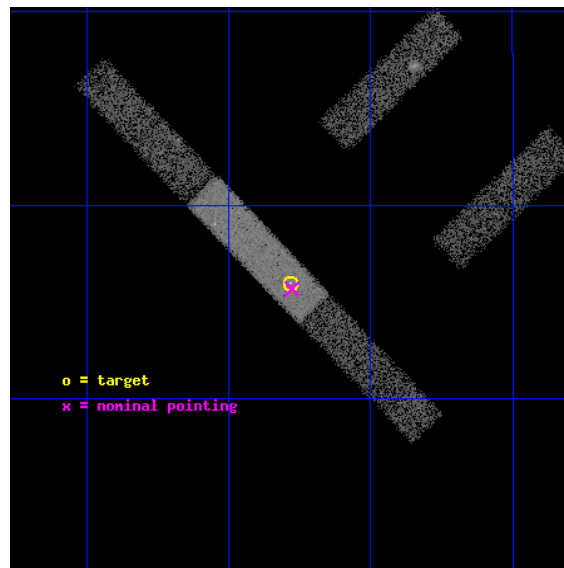
L2 Processing Date : Jun 3 2012

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1 Front

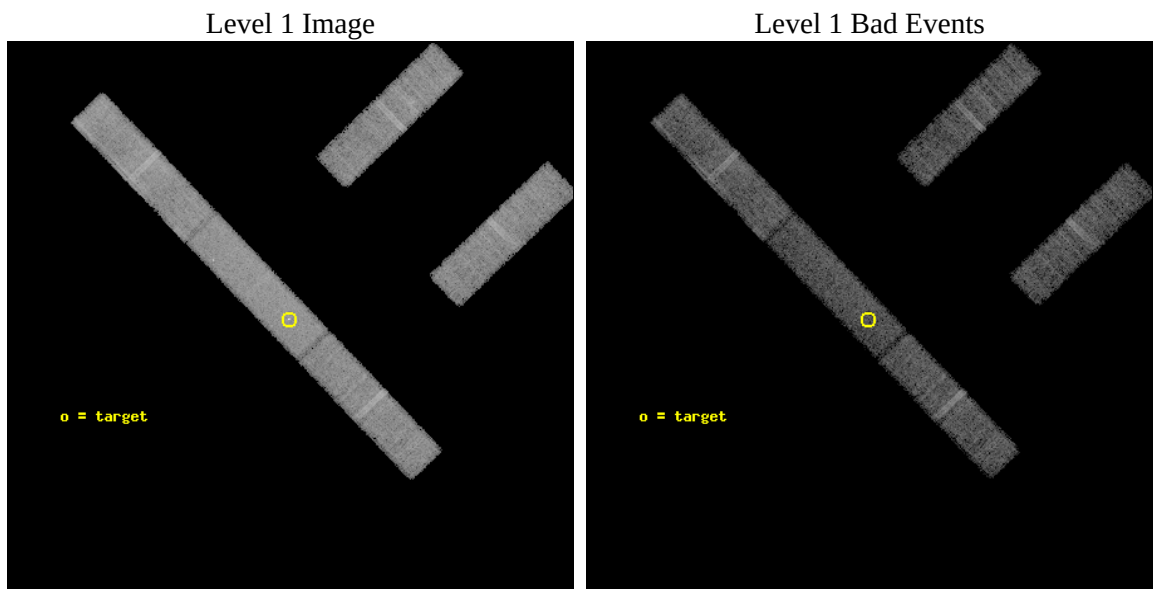
seq_num	701960	Sequence number
obs_id	10796	Observation id
title	Studying the Optical and X-ray Emission Regions of Quasar PG 1115+080 by Monitoring Microlensing Events	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PG 1115+080	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.570417	Observer's specified target RA [deg]
dec_targ	7.766111	Observer's specified target Dec [deg]
ra_nom	169.56937652906	Nominal RA [deg]
dec_nom	7.7613846701068	Nominal Dec [deg]
roll_nom	226.15674396466	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15154.0	Sum of GTIs [s]
livetime	14556.597248905	Livetime [s]
ontime2	15154.0	Sum of GTIs [s]
ontime3	15154.0	Sum of GTIs [s]
ontime6	15154.0	Sum of GTIs [s]
ontime7	15154.0	Sum of GTIs [s]
ontime8	15152.958979905	Sum of GTIs [s]
l2events	45609	Number of level 2 events



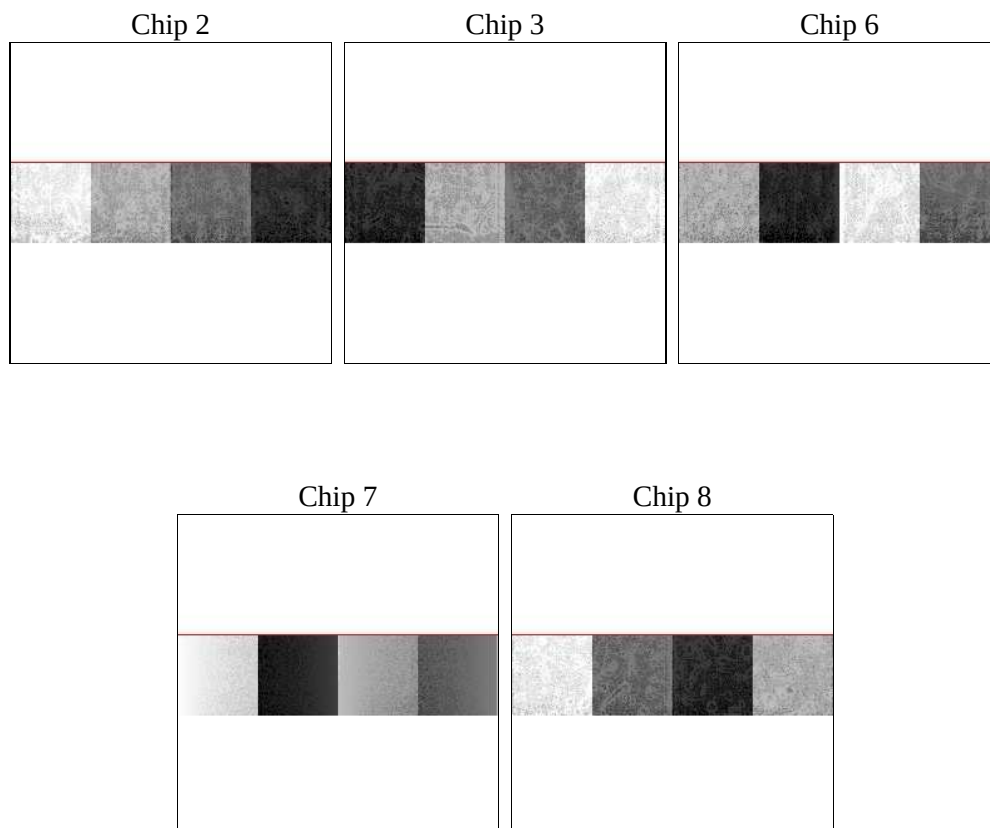
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.556000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15154.0	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	15154.0	Sum of GTIs [s]
date	2012-06-03T06:31:04	Date and time of file creation	ontime3	15154.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15154.0	Sum of GTIs [s]
			ontime7	15154.0	Sum of GTIs [s]
			ontime8	15152.958979905	Sum of GTIs [s]
			l1events	282287	Number of level 1 events

2.1.4 Events

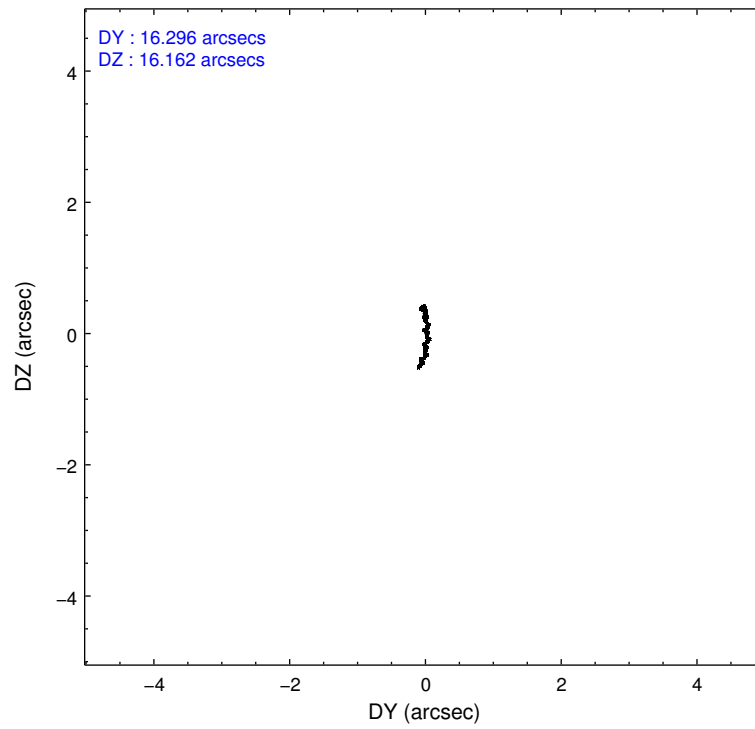
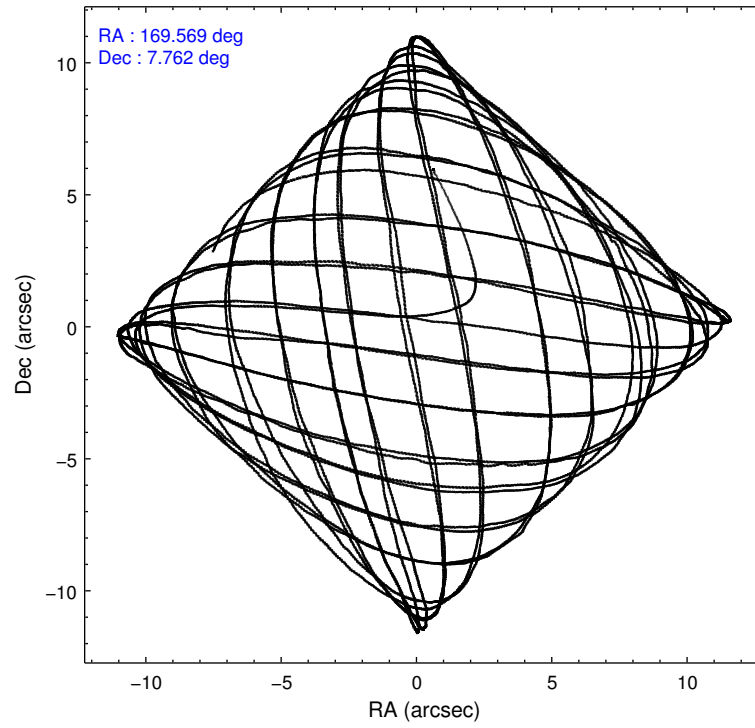
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	47953	50816	51251	65664	66603
rejected events	42482	44837	45470	38991	53667
rejected %	88%	88%	88%	59%	80%

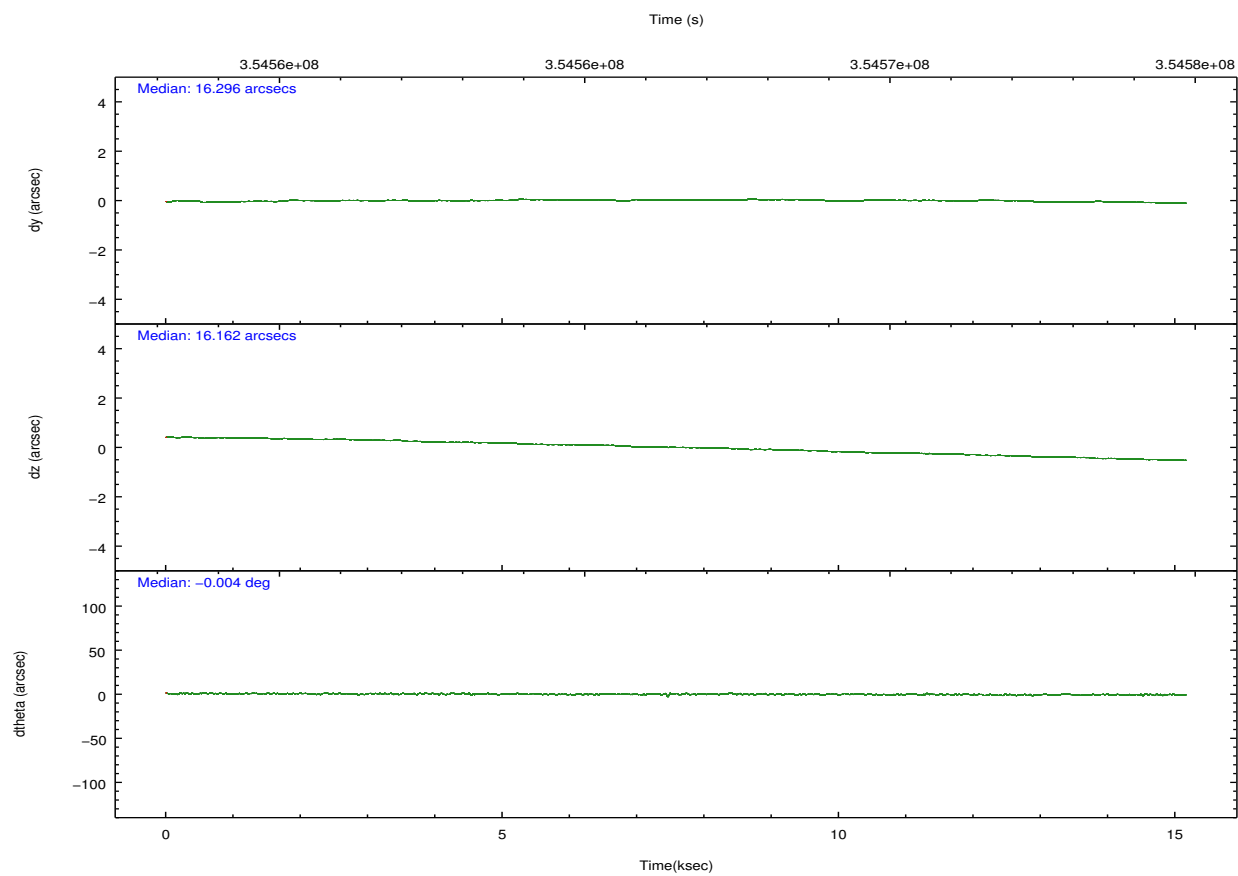
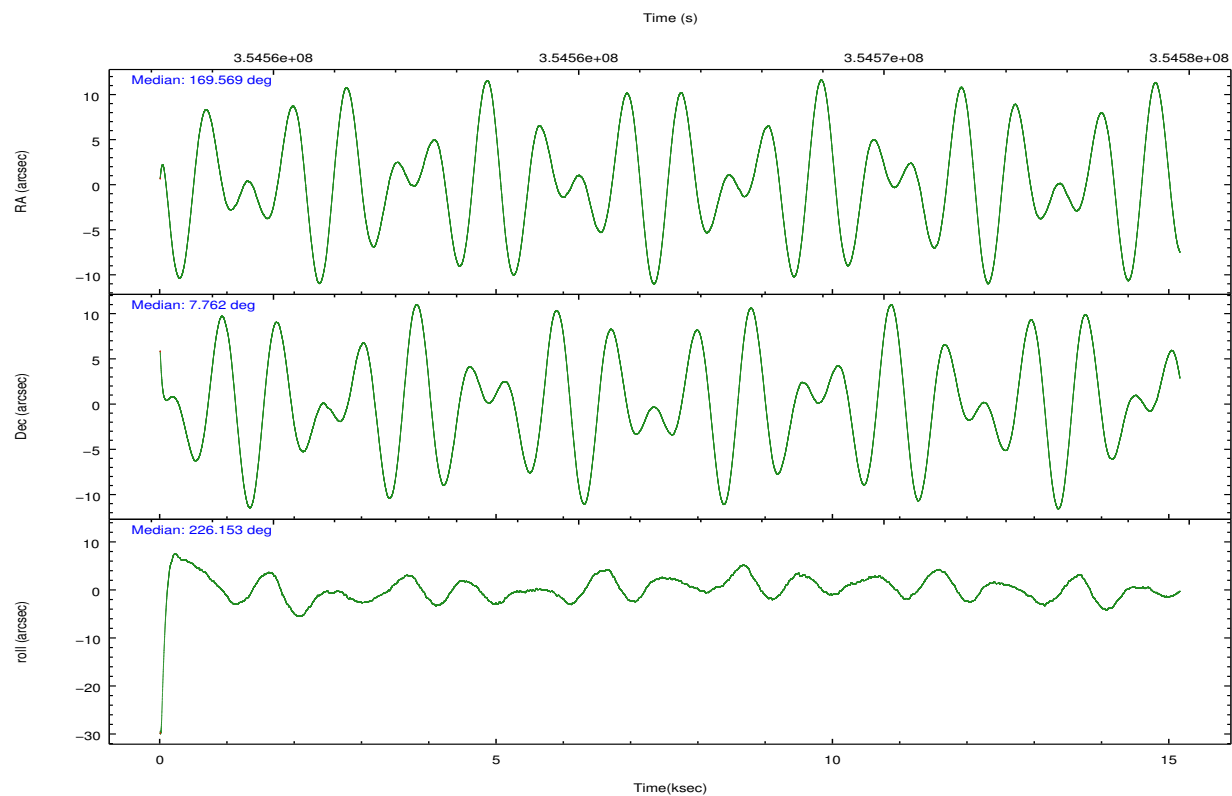
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2288	2738	2215	2967	4065
	4%	5%	4%	4%	6%
grade 1 events	16	26	22	82	26
	0%	0%	0%	0%	0%
grade 2 events	1090	1120	1175	6088	3023
	2%	2%	2%	9%	4%
grade 3 events	831	835	849	2879	1499
	1%	1%	1%	4%	2%
grade 4 events	795	792	772	2761	1442
	1%	1%	1%	4%	2%
grade 5 events	1740	2143	2252	5978	2899
	3%	4%	4%	9%	4%
grade 6 events	944	945	1204	14033	3827
	1%	1%	2%	21%	5%
grade 7 events	40249	42217	42762	30876	49822
	83%	83%	83%	47%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	169.575623	169.5693765290621	CCD I2 on	O1	Y
[deg] Pointing Dec	7.788013	7.76138467010678	CCD I3 on	O2	Y
[deg] Pointing Roll	225.999289	226.1567439646576	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	354559076.184000	354557717.51472	CCD S5 on	N	N
Observation start date	2009-03-27T16:36:50	2009-03-27T16:15:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	354574077.184000	354574303.55304	On-chip summing requested	N	N
Observation end date	2009-03-27T20:46:51	2009-03-27T20:51:43	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



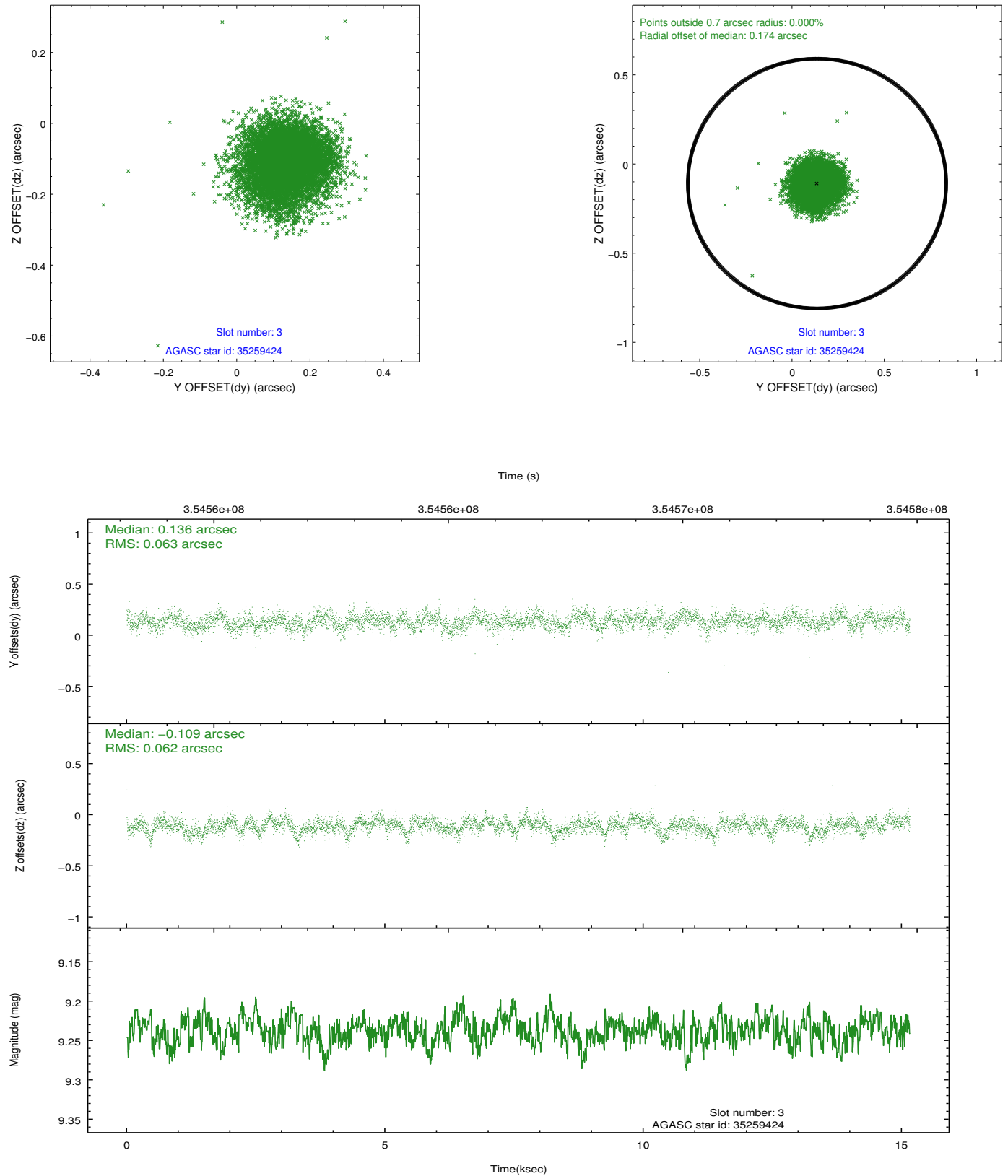


Slot Statistics

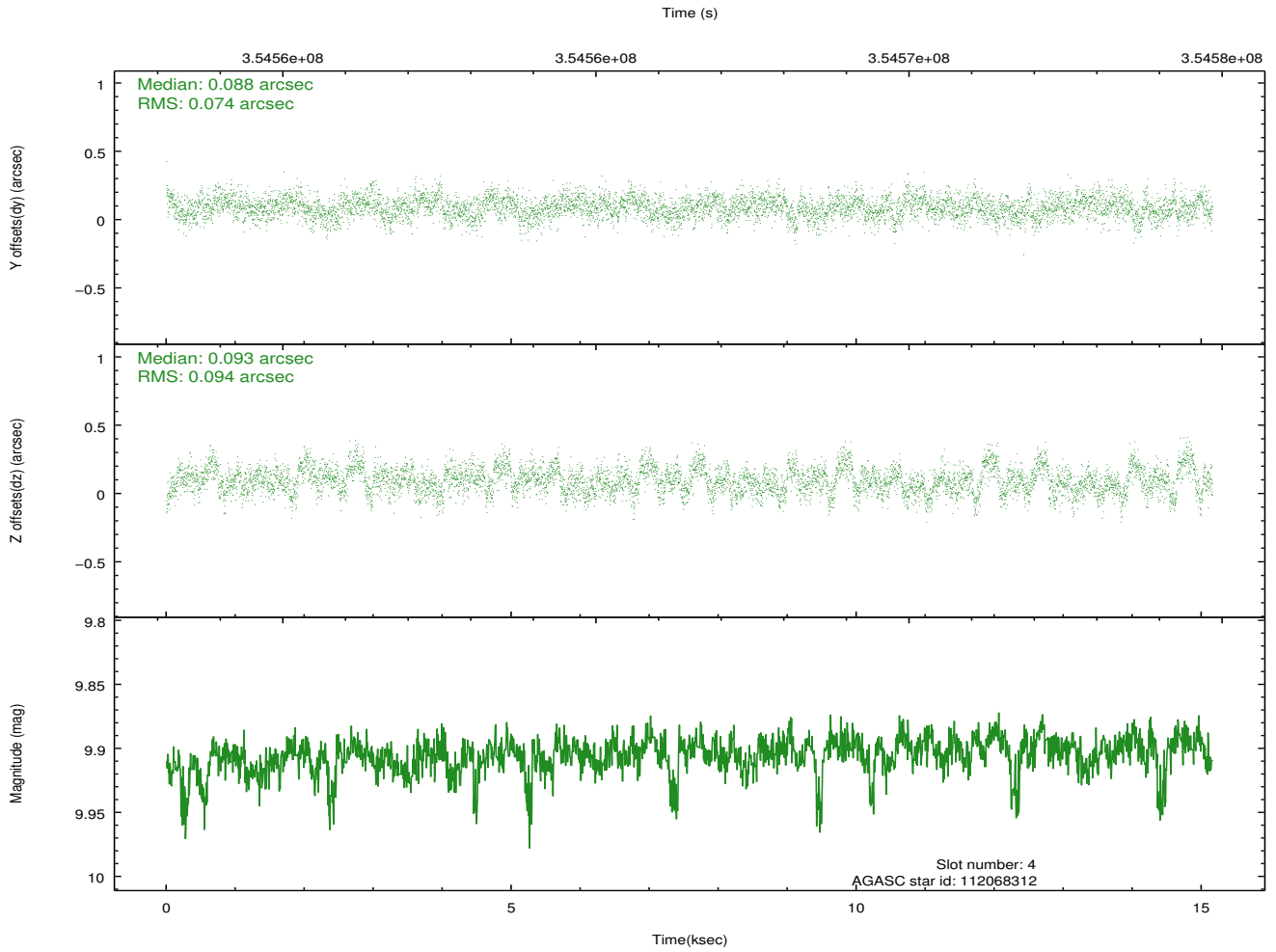
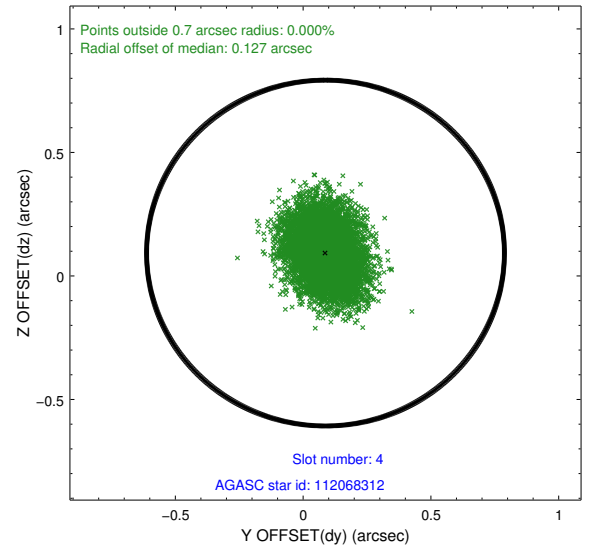
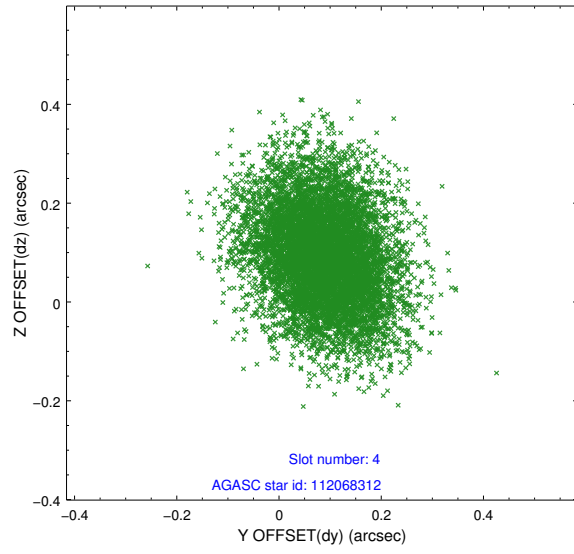
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.90	3698	0.121	-0.076	0.010	0.022	0.000000	0.000000	926.82	-1733.28
1	FID	ACIS-S-2	6.84	3698	-0.113	0.009	0.008	0.013	0.000000	0.000000	-769.15	-1738.02
2	FID	ACIS-S-6	7.05	3698	-0.028	0.071	0.008	0.015	0.000000	0.000000	392.25	807.90
3	GUIDE	35259424	9.24	7386	0.136	-0.109	0.092	0.150	169.225147	7.406887	1856.38	53.03
4	GUIDE	112068312	9.90	7387	0.088	0.093	0.126	0.208	169.673636	8.146330	-1169.69	-644.37
5	GUIDE	112068528	8.78	7384	-0.028	-0.006	0.089	0.146	169.984852	7.578312	-471.81	1574.74
6	GUIDE	112075960	9.92	7384	-0.012	0.035	0.266	0.368	169.538050	8.627791	-2081.37	-2195.87
7	GUIDE	112069576	10.34	7378	-0.153	-0.013	0.198	0.314	170.424865	7.836421	-2232.18	2056.17

2.4 Star Slots

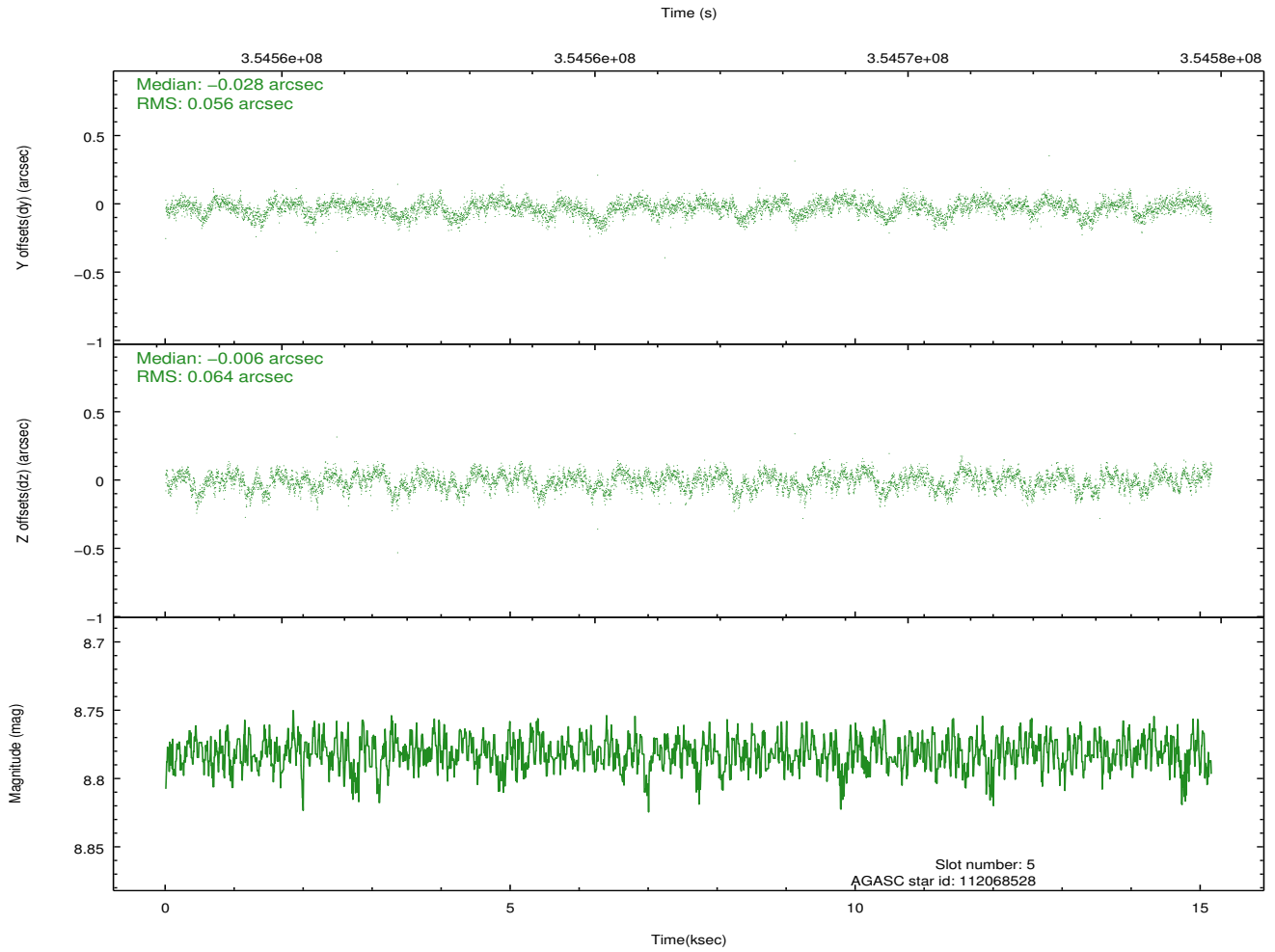
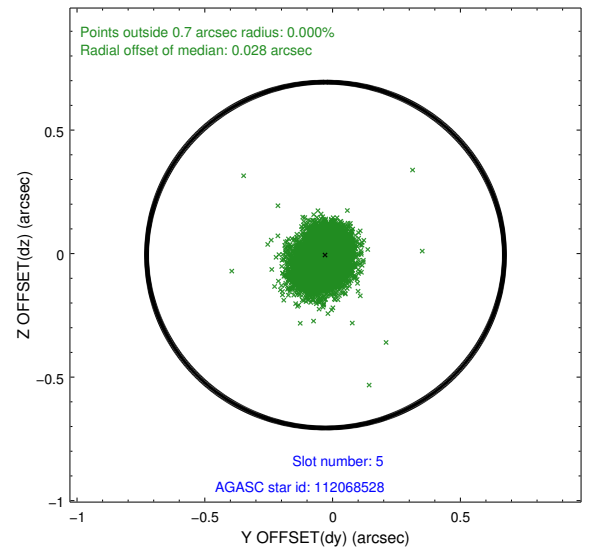
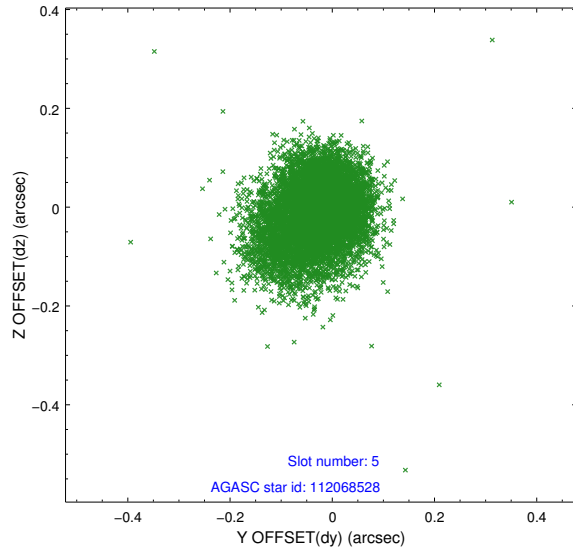
2.4.1 Slot 3



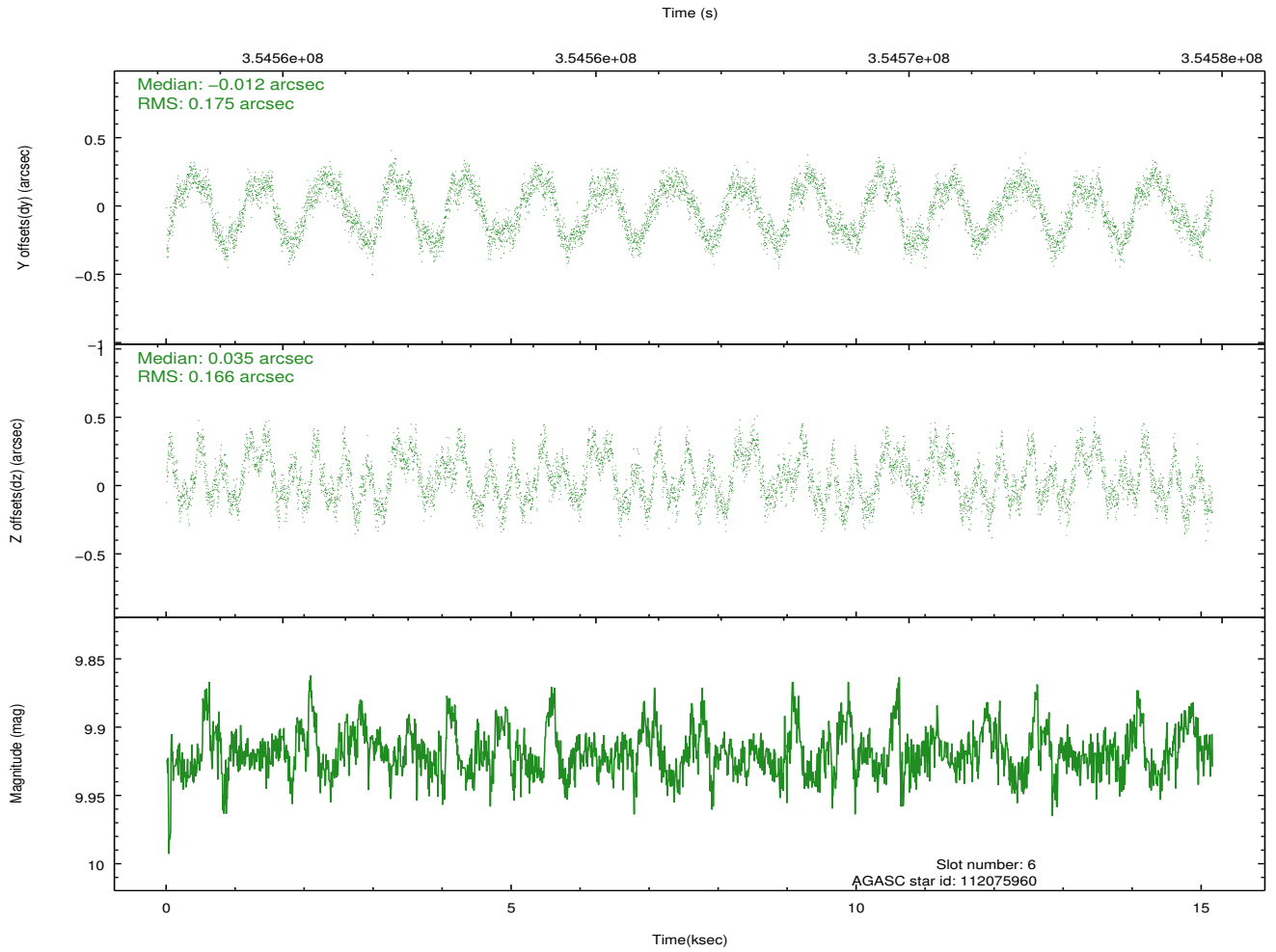
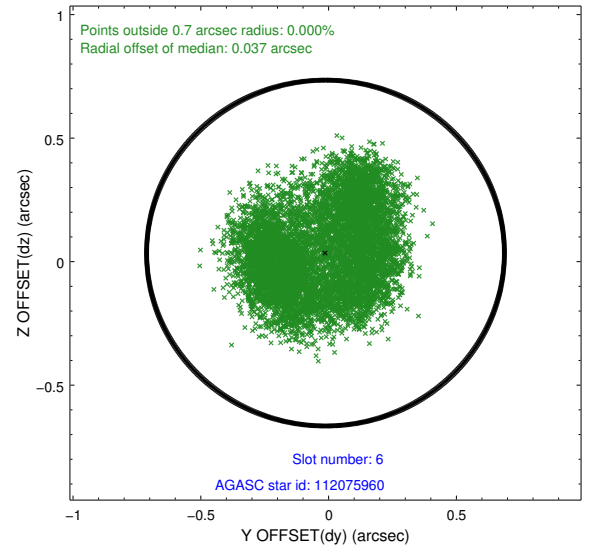
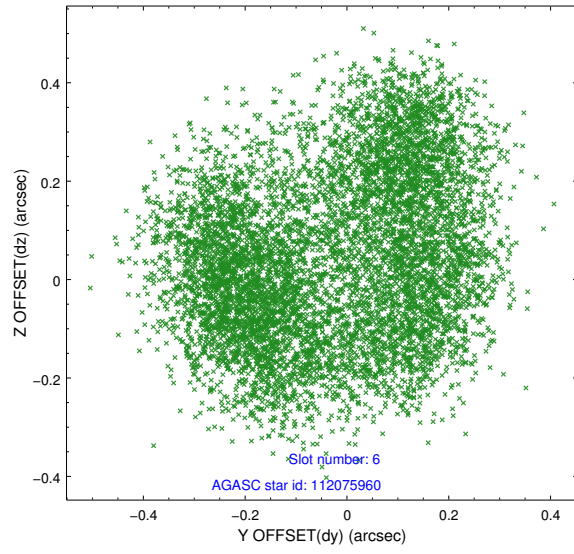
2.4.2 Slot 4



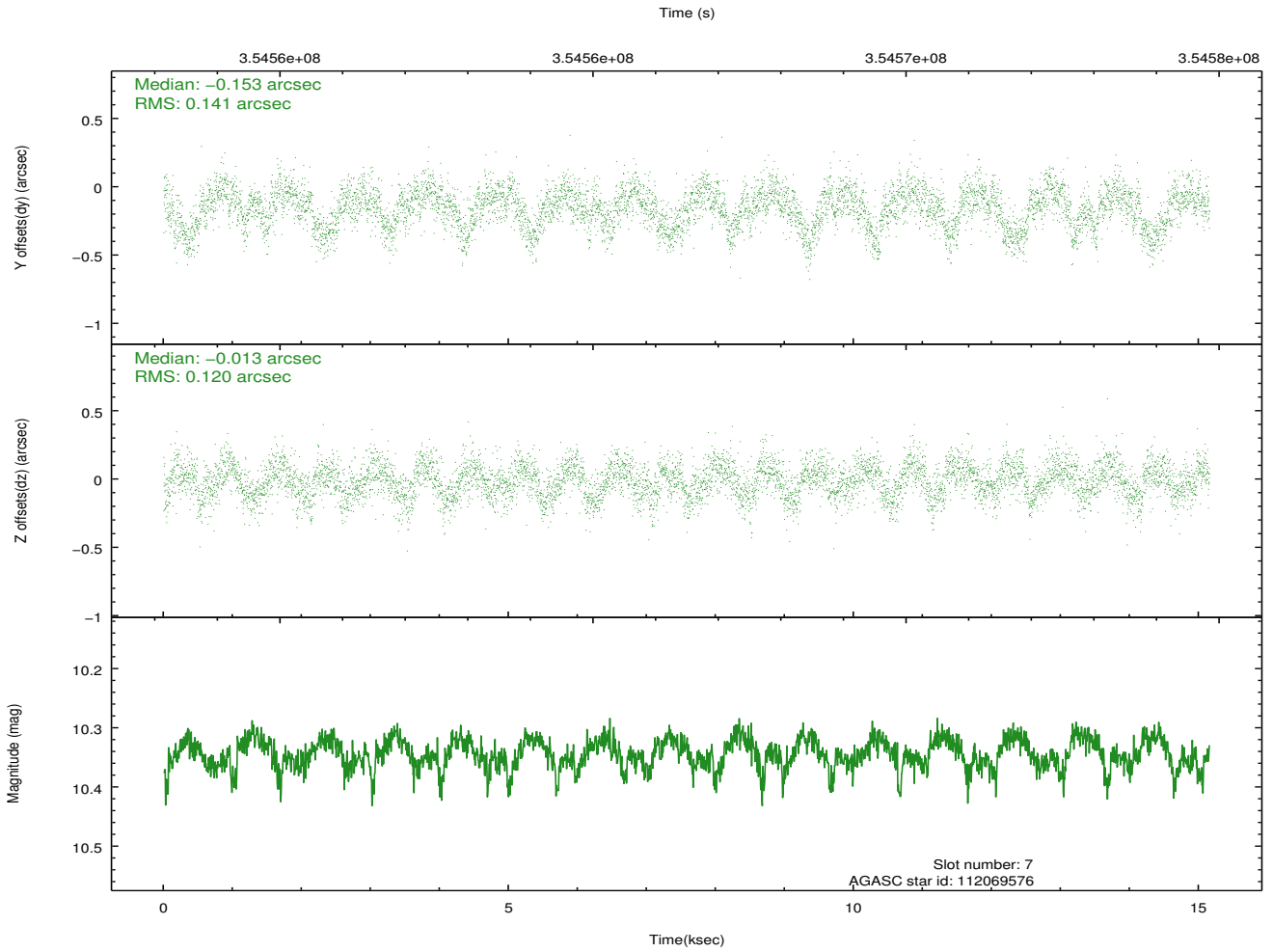
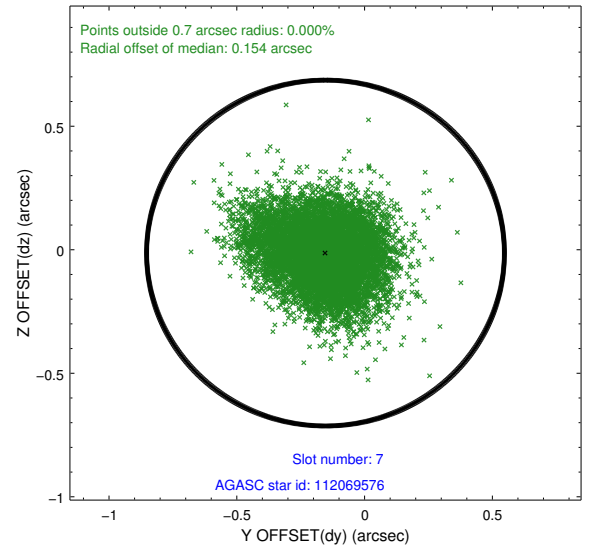
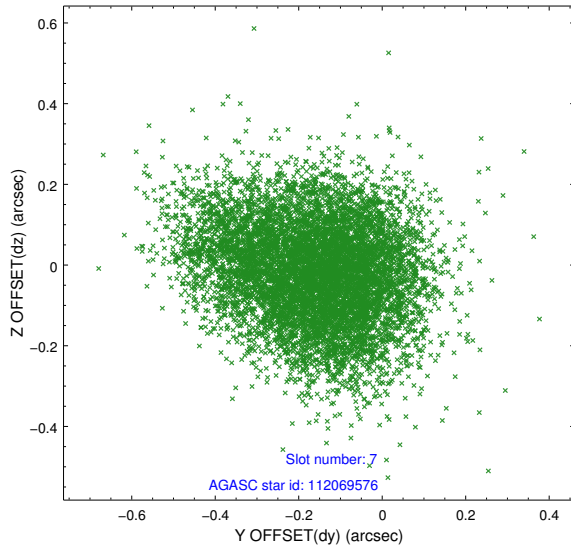
2.4.3 Slot 5



2.4.4 Slot 6

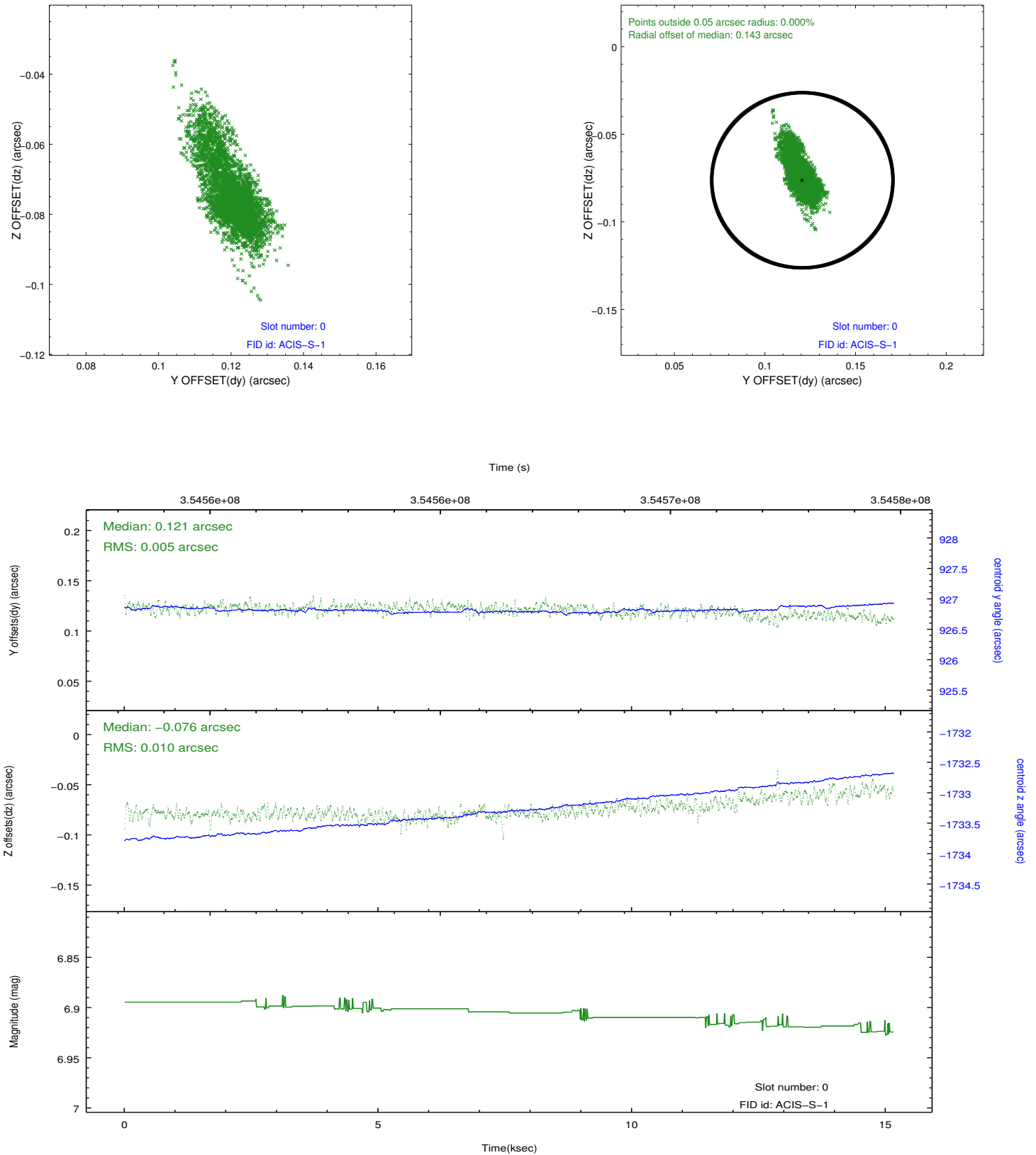


2.4.5 Slot 7

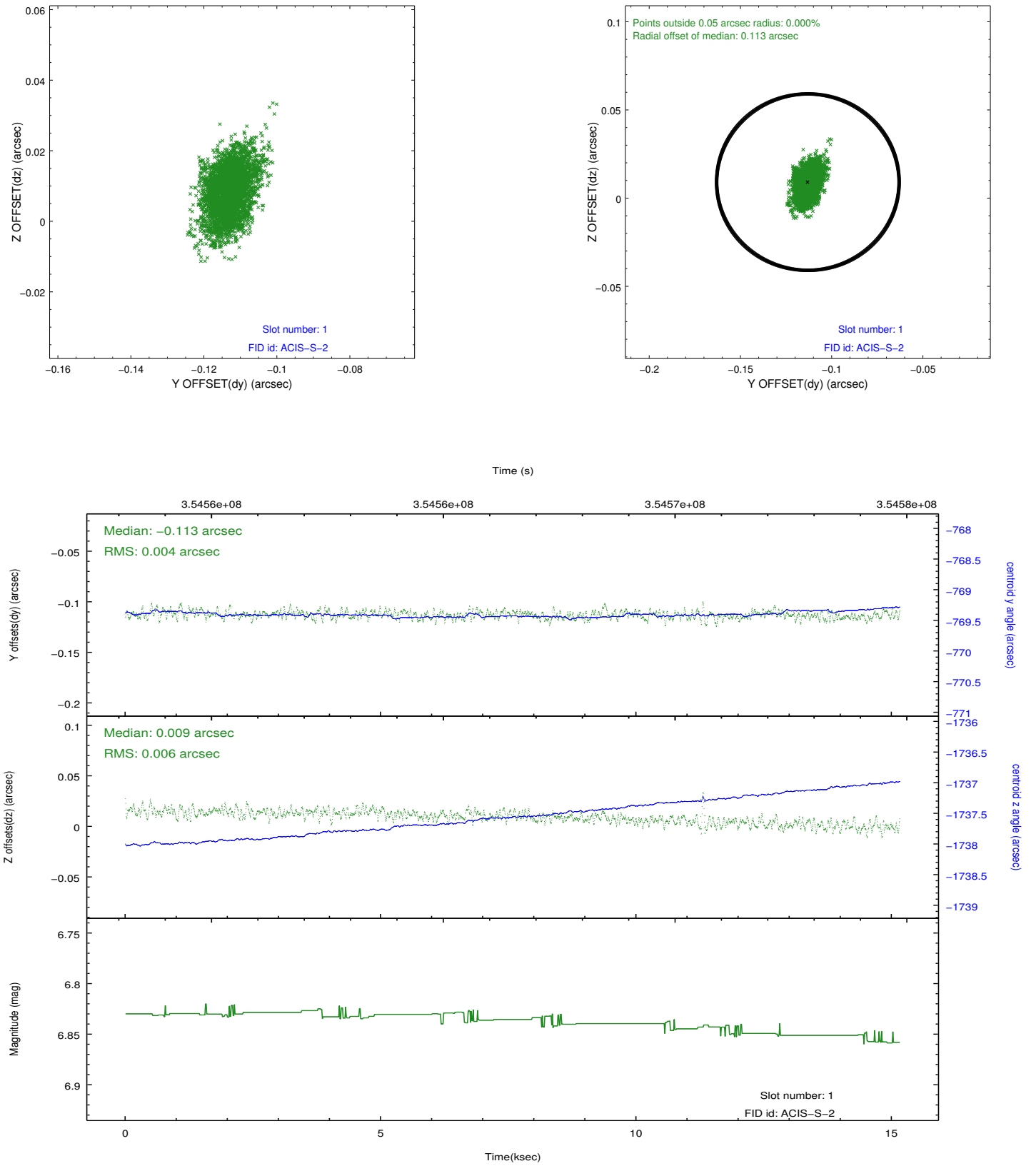


2.5 FID Slots

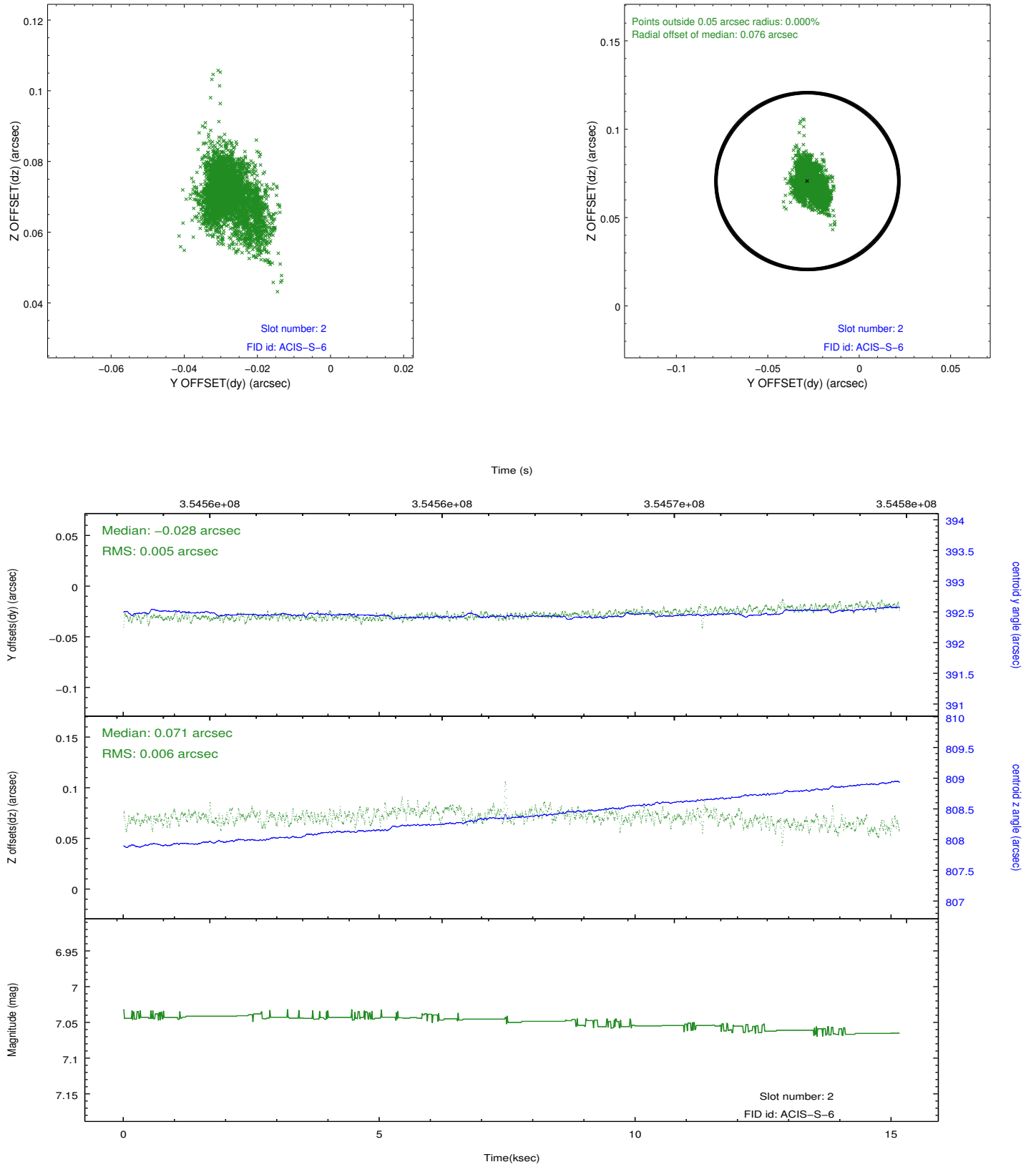
2.5.1 Slot 0



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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.154

A.2 Comments

Window constraint satisfied.