

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10256 - L2 Version 2
Chandra X-Ray Center

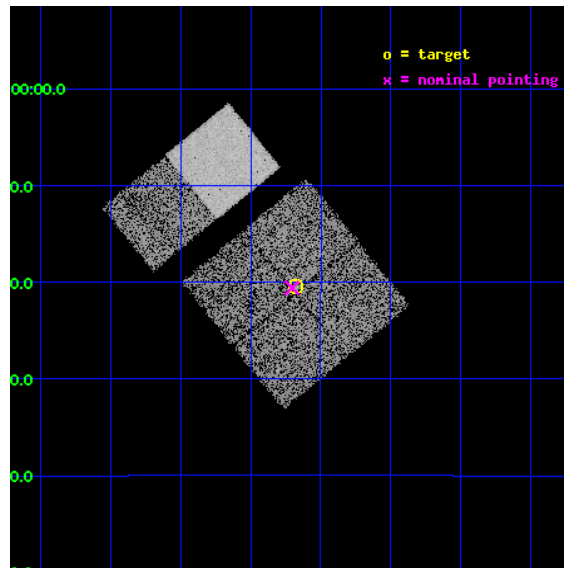
L2 Processing Date : May 25 2012

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1 Front

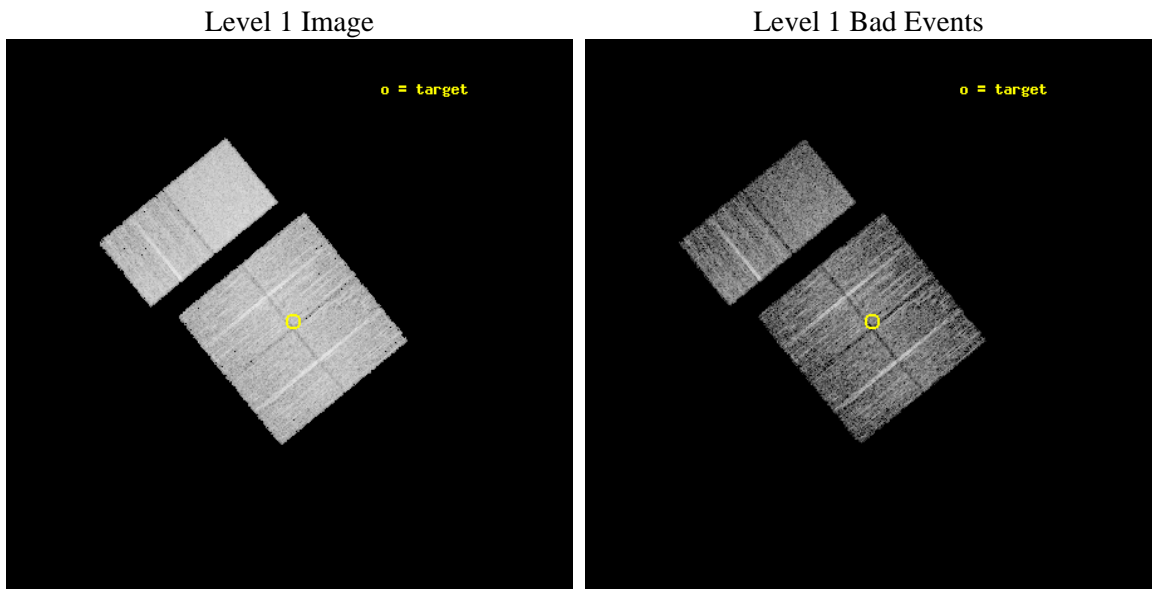
seq_num	701799	Sequence number
obs_id	10256	Observation id
title	Zeroing in on the sources of Ultrahigh Energy Cosmic Rays	Proposal
observer	Prof. Glennys Farrar	Principal investigator
object	NGC 1204	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	46.16875	Observer's specified target RA [deg]
dec_targ	-12.340278	Observer's specified target Dec [deg]
ra_nom	46.176560147448	Nominal RA [deg]
dec_nom	-12.343300466206	Nominal Dec [deg]
roll_nom	320.87726997613	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4950.3590013385	Sum of GTIs [s]
livetime	4887.6745749152	Livetime [s]
ontime0	4953.599981606	Sum of GTIs [s]
ontime1	4953.599981606	Sum of GTIs [s]
ontime2	4953.599981606	Sum of GTIs [s]
ontime3	4950.3590013385	Sum of GTIs [s]
ontime6	4953.599981606	Sum of GTIs [s]
ontime7	4953.599981606	Sum of GTIs [s]
l2events	53517	Number of level 2 events



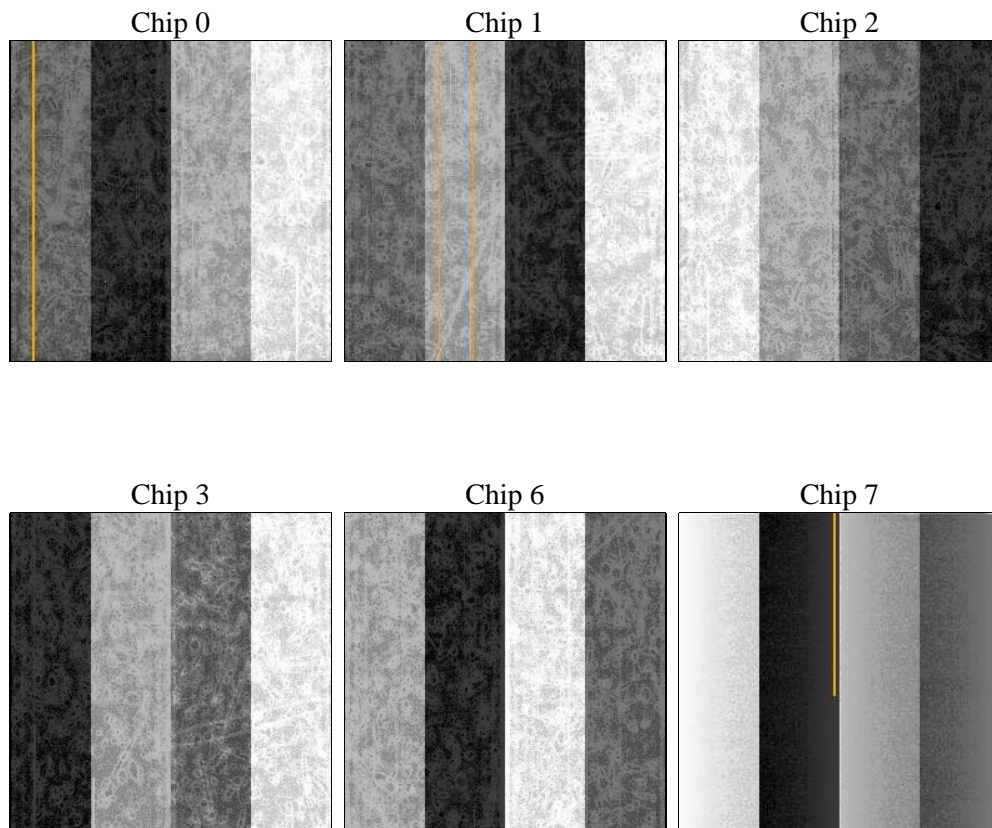
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4950.3590013385	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4953.599981606	Sum of GTIs [s]
date	2012-05-25T18:28:39	Date and time of file creation	ontime1	4953.599981606	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4953.599981606	Sum of GTIs [s]
			ontime3	4950.3590013385	Sum of GTIs [s]
			ontime6	4953.599981606	Sum of GTIs [s]
			ontime7	4953.599981606	Sum of GTIs [s]
			l1events	300057	Number of level 1 events

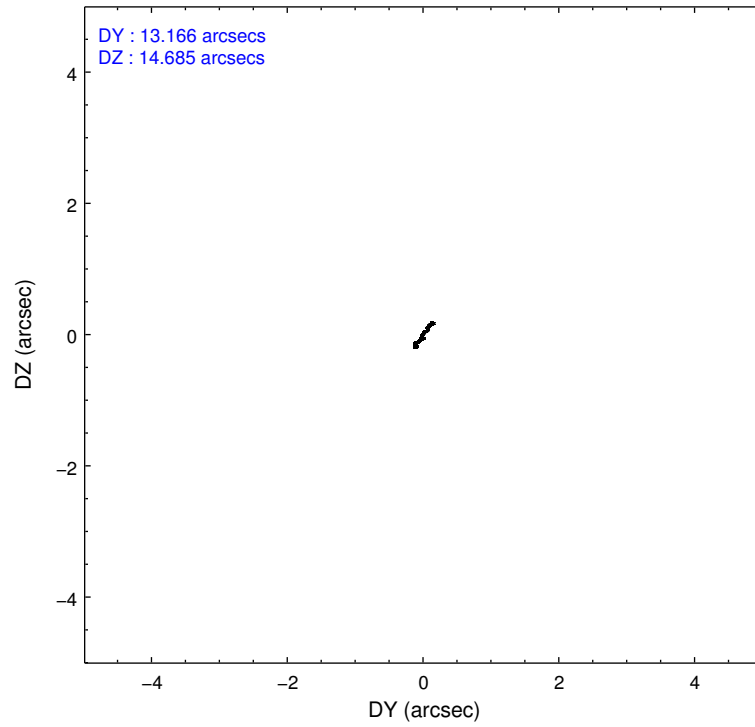
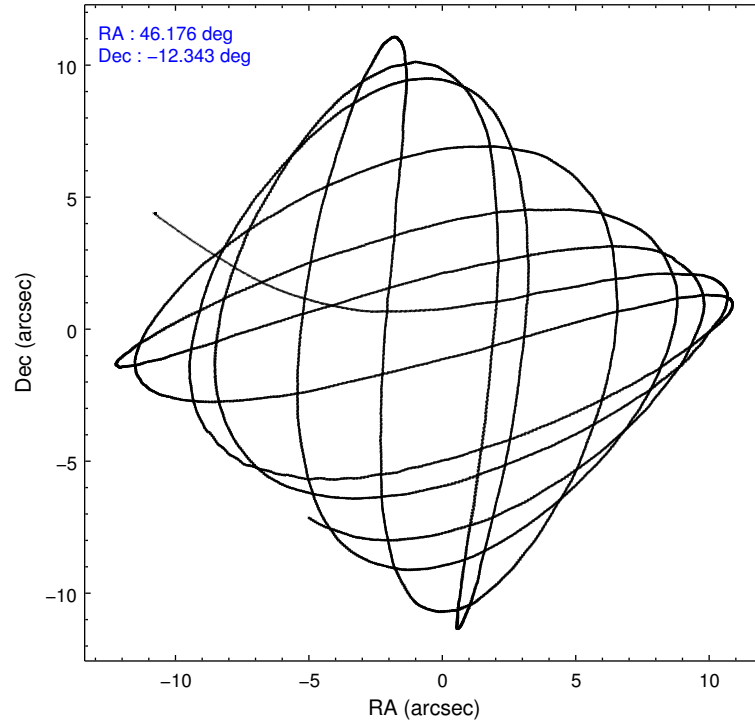
2.1.4 Events

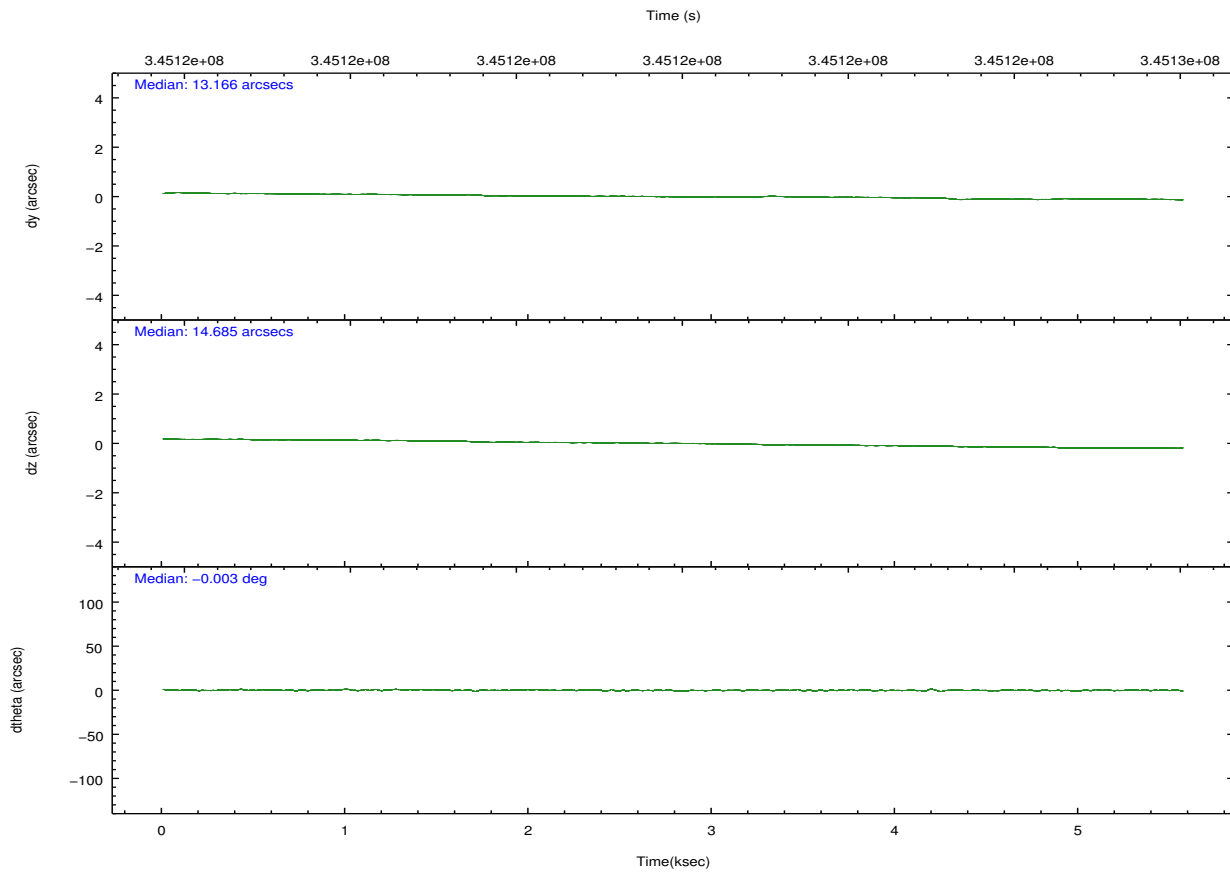
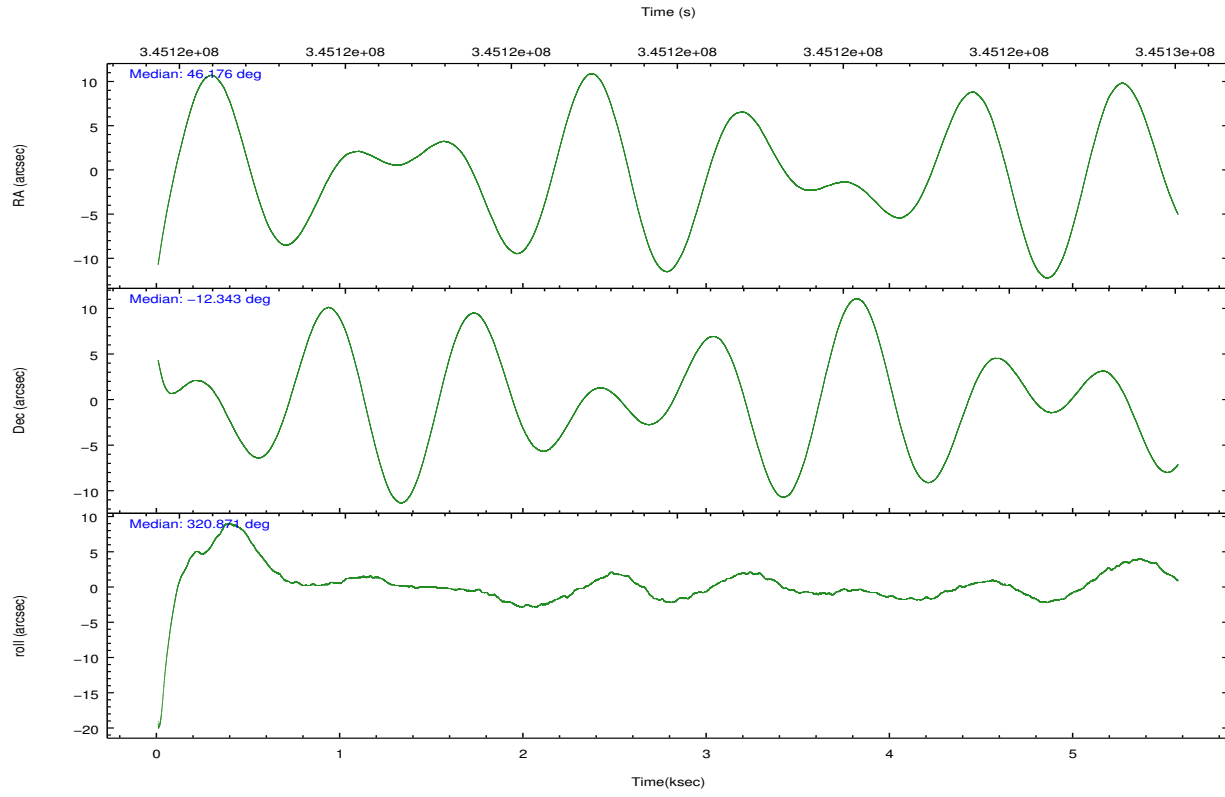
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	43705	44833	46286	47450	49414	68369	grade 0 events	2584	2431	2377	2634	2228	2367
rejected events	37508	38629	40723	41536	43406	40010		5%	5%	5%	5%	4%	3%
rejected %	85%	86%	87%	87%	87%	58%	grade 1 events	42	25	24	36	34	73
								0%	0%	0%	0%	0%	0%
							grade 2 events	1390	1484	1173	1172	1456	5796
								3%	3%	2%	2%	2%	8%
							grade 3 events	584	543	516	541	558	2391
								1%	1%	1%	1%	1%	3%
							grade 4 events	544	539	481	537	511	2266
								1%	1%	1%	1%	1%	3%
							grade 5 events	2013	2183	2003	2432	2305	6482
								4%	4%	4%	5%	4%	9%
							grade 6 events	1104	1212	1016	1034	1258	15553
								2%	2%	2%	2%	2%	22%
							grade 7 events	35444	36416	38696	39064	41064	33441
								81%	81%	83%	82%	83%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	46.148628	46.17656014744797	CCD I2 on	Y	Y
[deg] Pointing Dec	-12.339028	-12.34330046620632	CCD I3 on	Y	Y
[deg] Pointing Roll	320.662647	320.8772699761295	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	345120735.184000	345119582.64702	CCD S5 on	N	N
Observation start date	2008-12-08T10:51:10	2008-12-08T10:33:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	345125735.184000	345126701.78487	On-chip summing requested	N	N
Observation end date	2008-12-08T12:14:30	2008-12-08T12:31:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



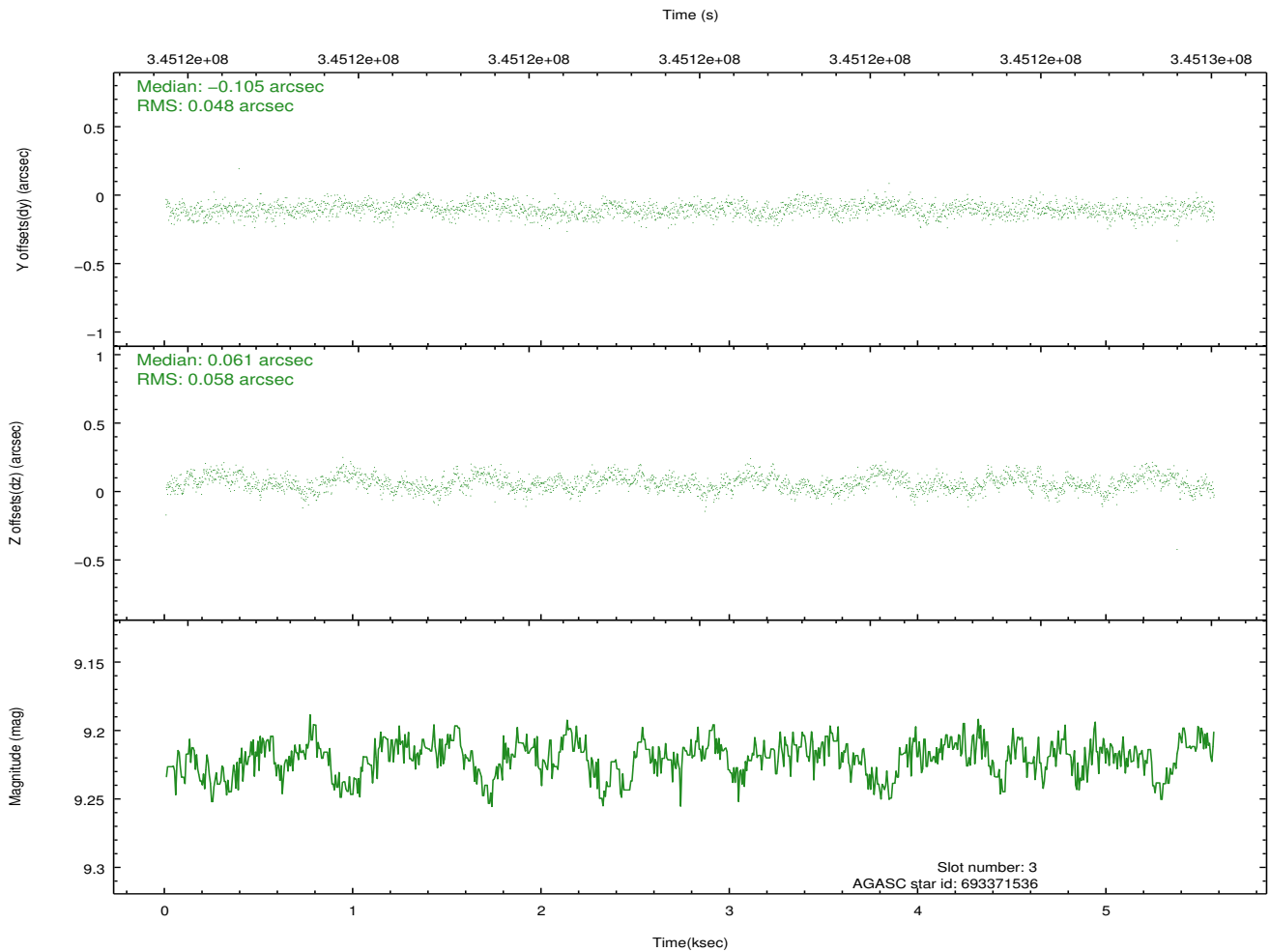
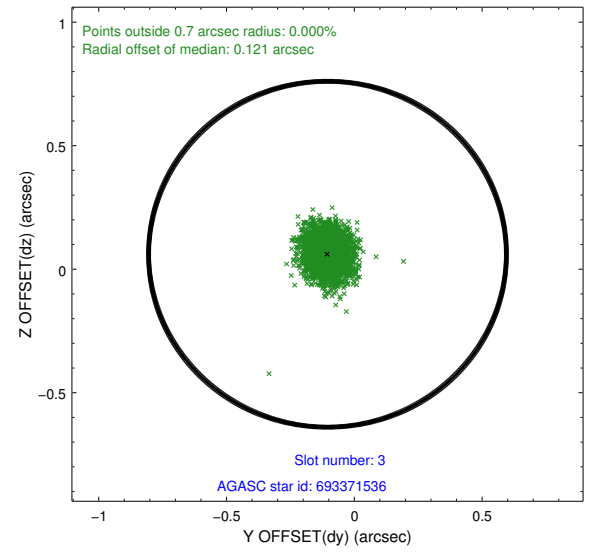
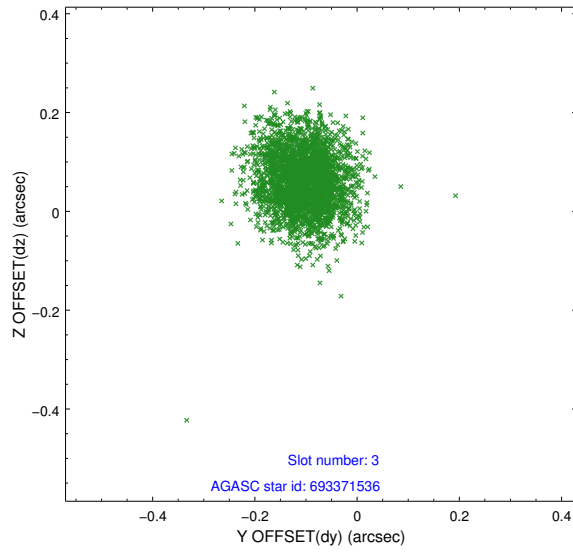


Slot Statistics

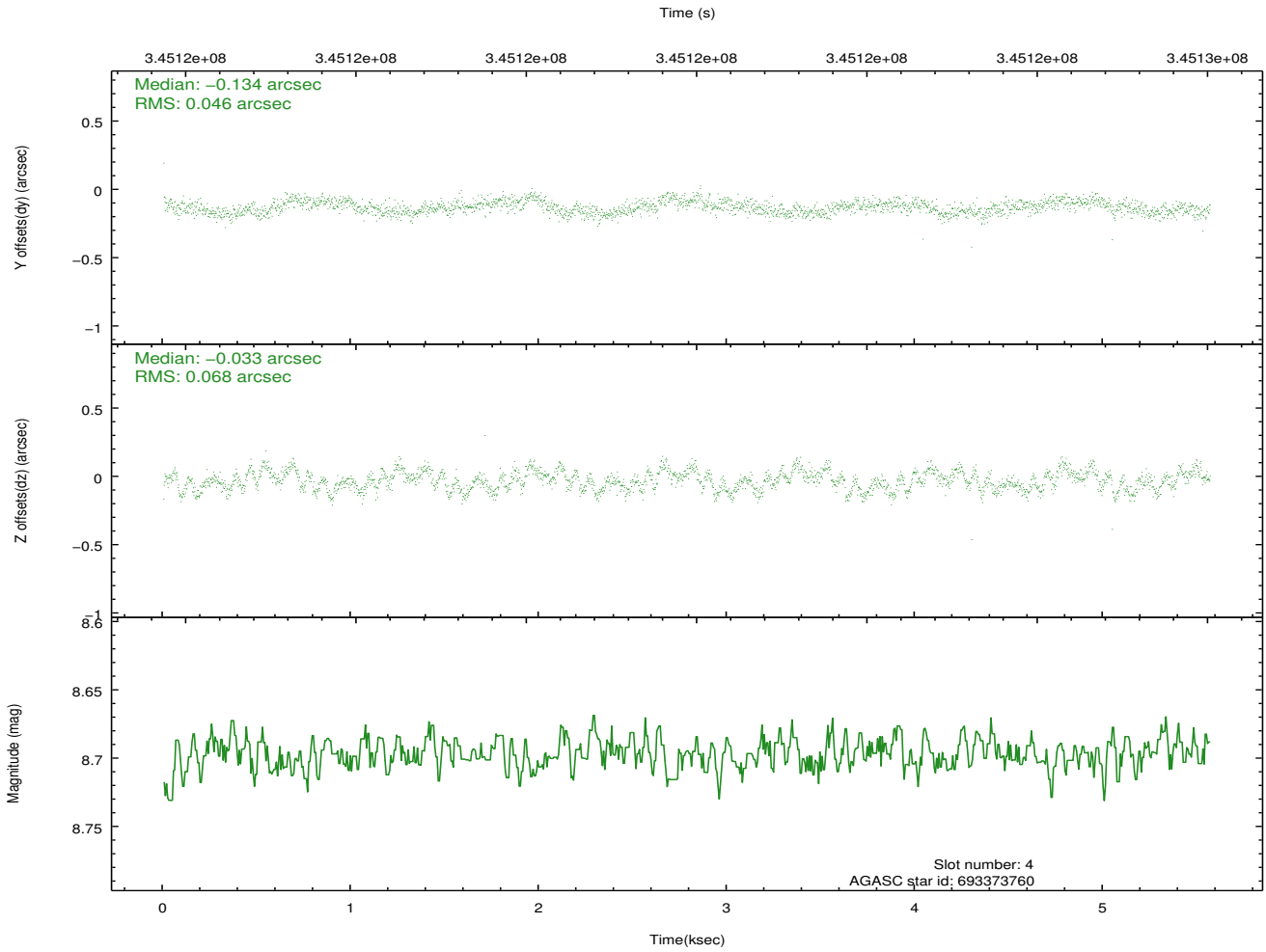
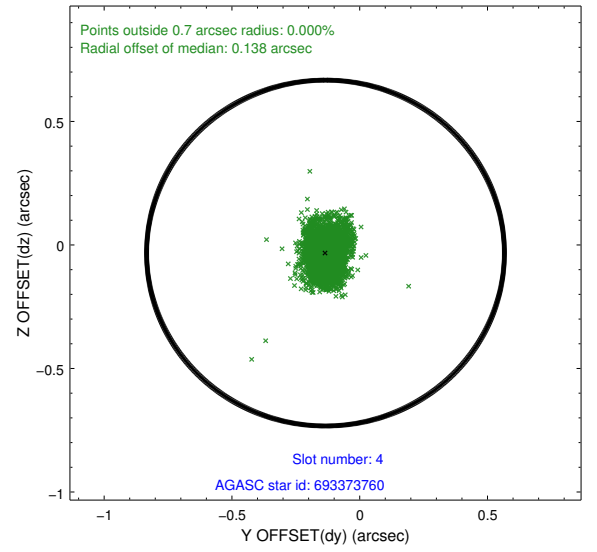
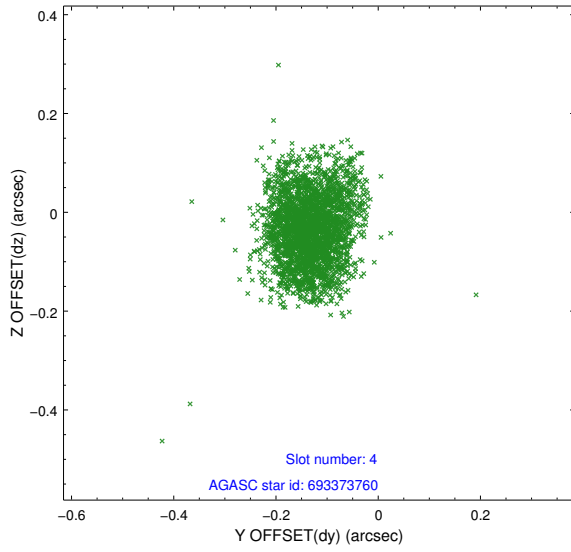
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	1358	0.018	0.024	0.008	0.014	0.000000	0.000000	926.37	-838.23
1	FID	ACIS-I-5	7.02	1358	-0.186	0.034	0.007	0.012	0.000000	0.000000	-1821.37	1058.69
2	FID	ACIS-I-6	7.03	1358	0.077	0.012	0.008	0.012	0.000000	0.000000	390.76	1704.42
3	GUIDE	693371536	9.22	2714	-0.105	0.061	0.079	0.129	45.841562	-11.909170	-1817.06	510.83
4	GUIDE	693373760	8.70	2715	-0.134	-0.033	0.086	0.140	45.624318	-12.416484	-1248.40	-1385.47
5	GUIDE	693765240	8.96	2715	0.071	-0.022	0.097	0.153	45.570643	-12.629061	-906.67	-2097.09
6	GUIDE	694294296	8.72	2716	0.088	-0.027	0.077	0.122	46.207081	-12.171597	-222.68	595.52
7	GUIDE	694682096	9.12	2713	0.077	0.023	0.080	0.134	46.324816	-12.723455	1355.92	-677.85

2.4 Star Slots

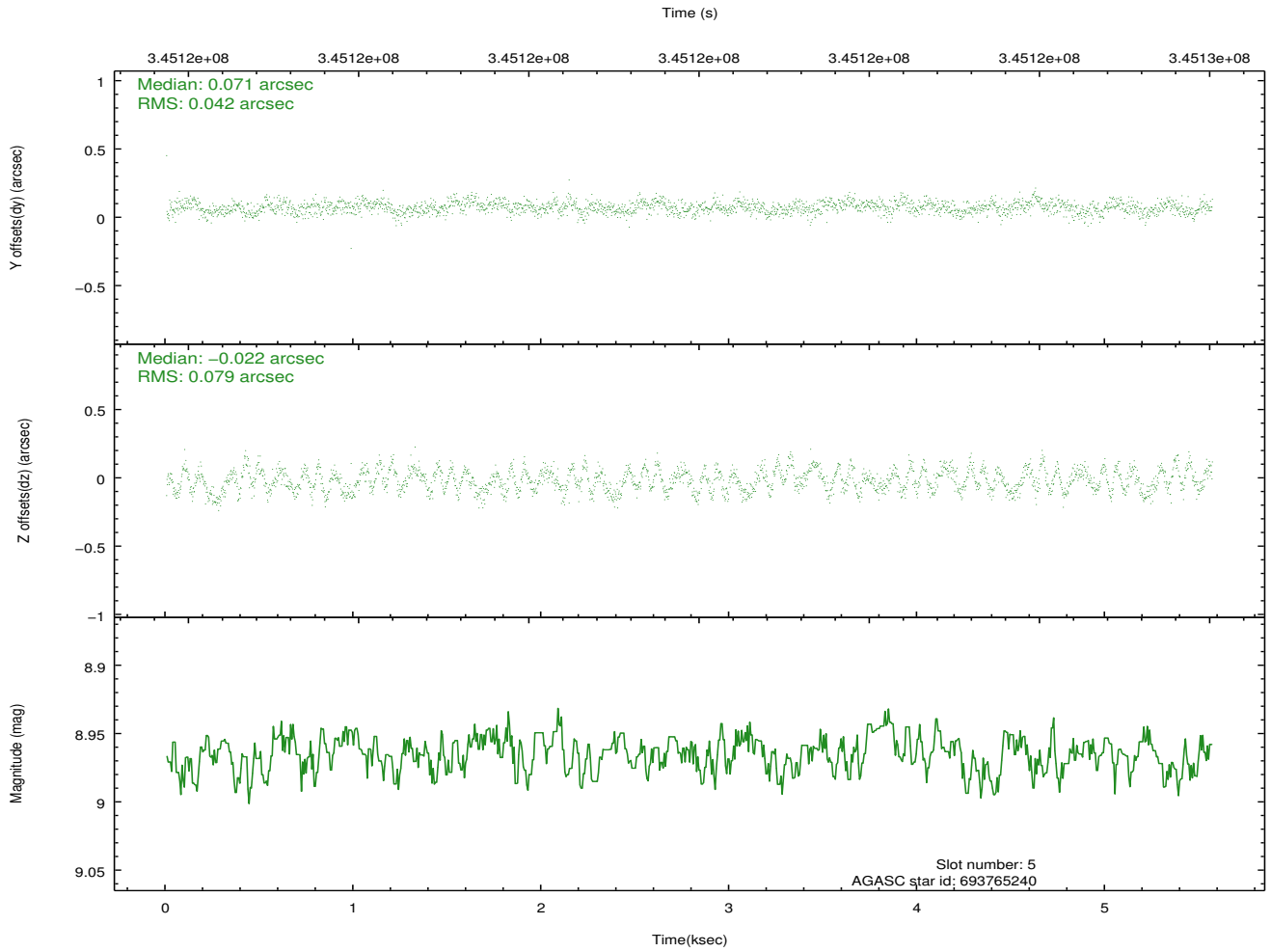
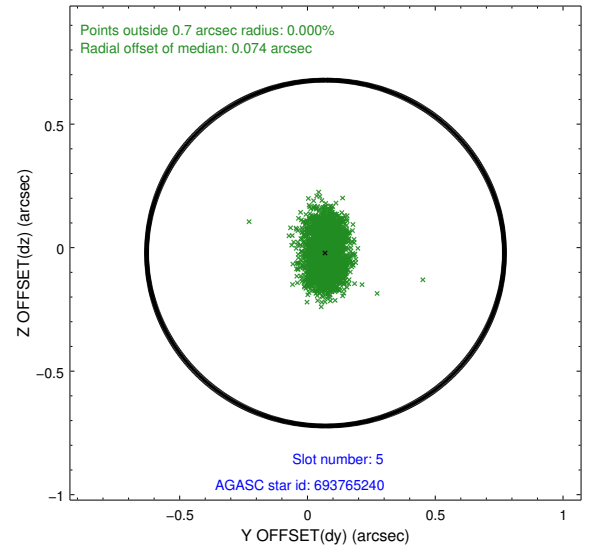
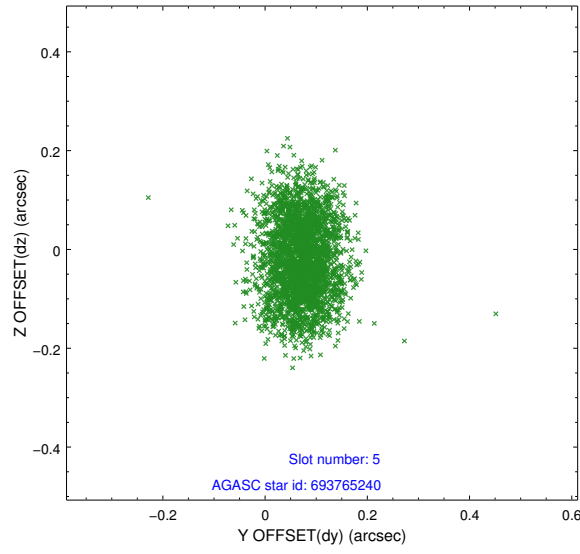
2.4.1 Slot 3



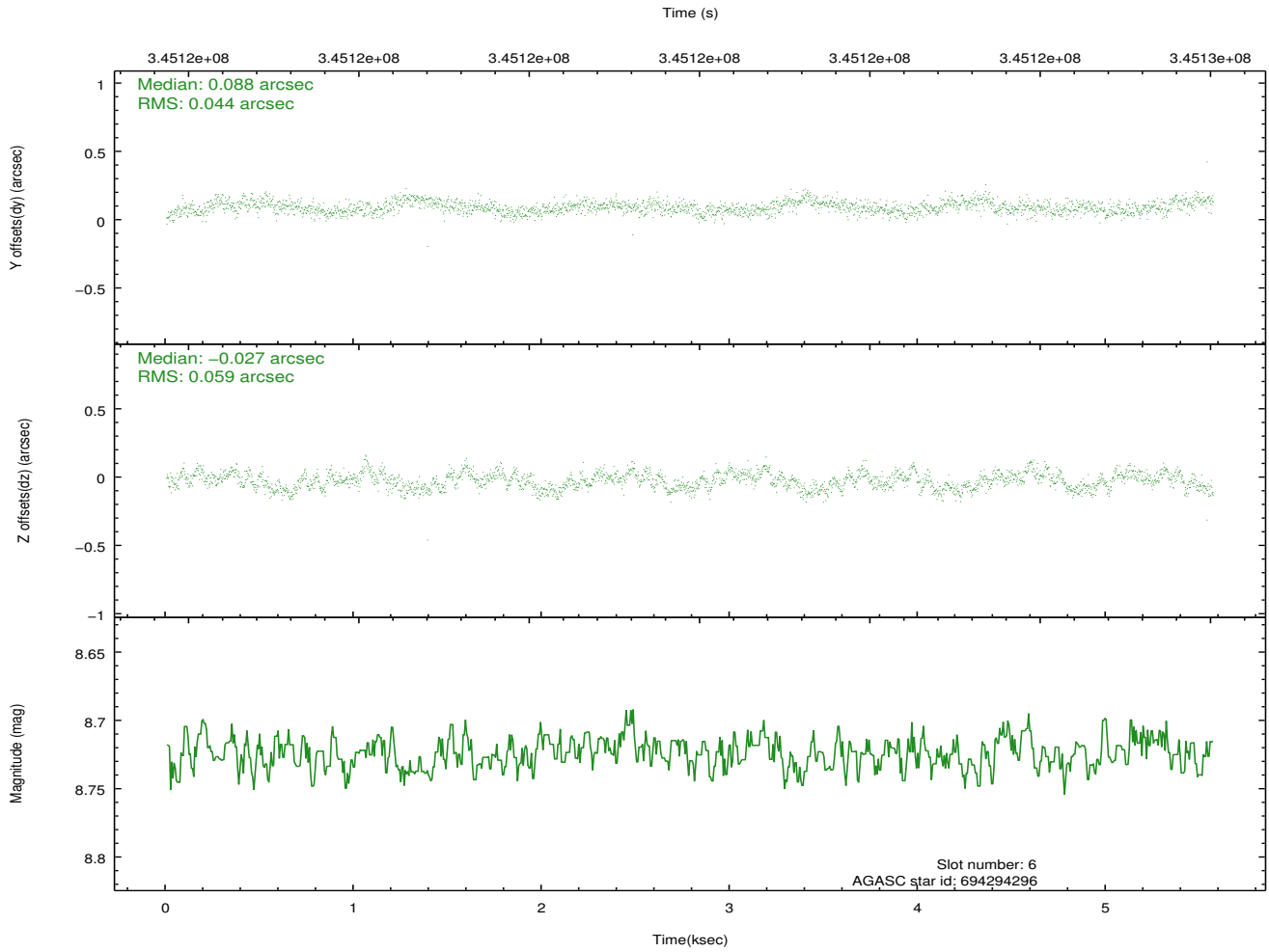
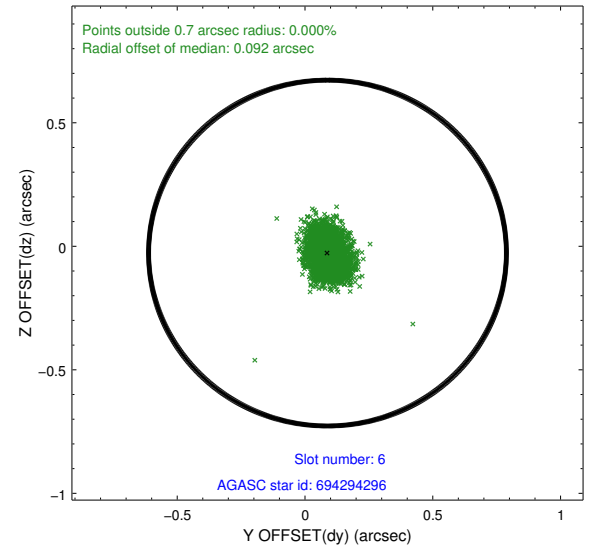
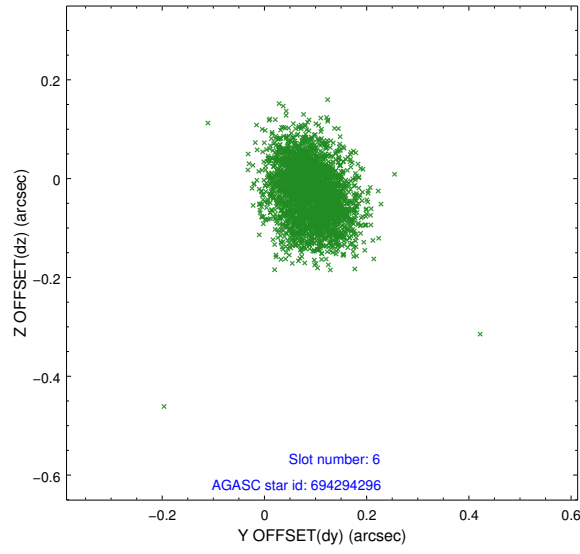
2.4.2 Slot 4



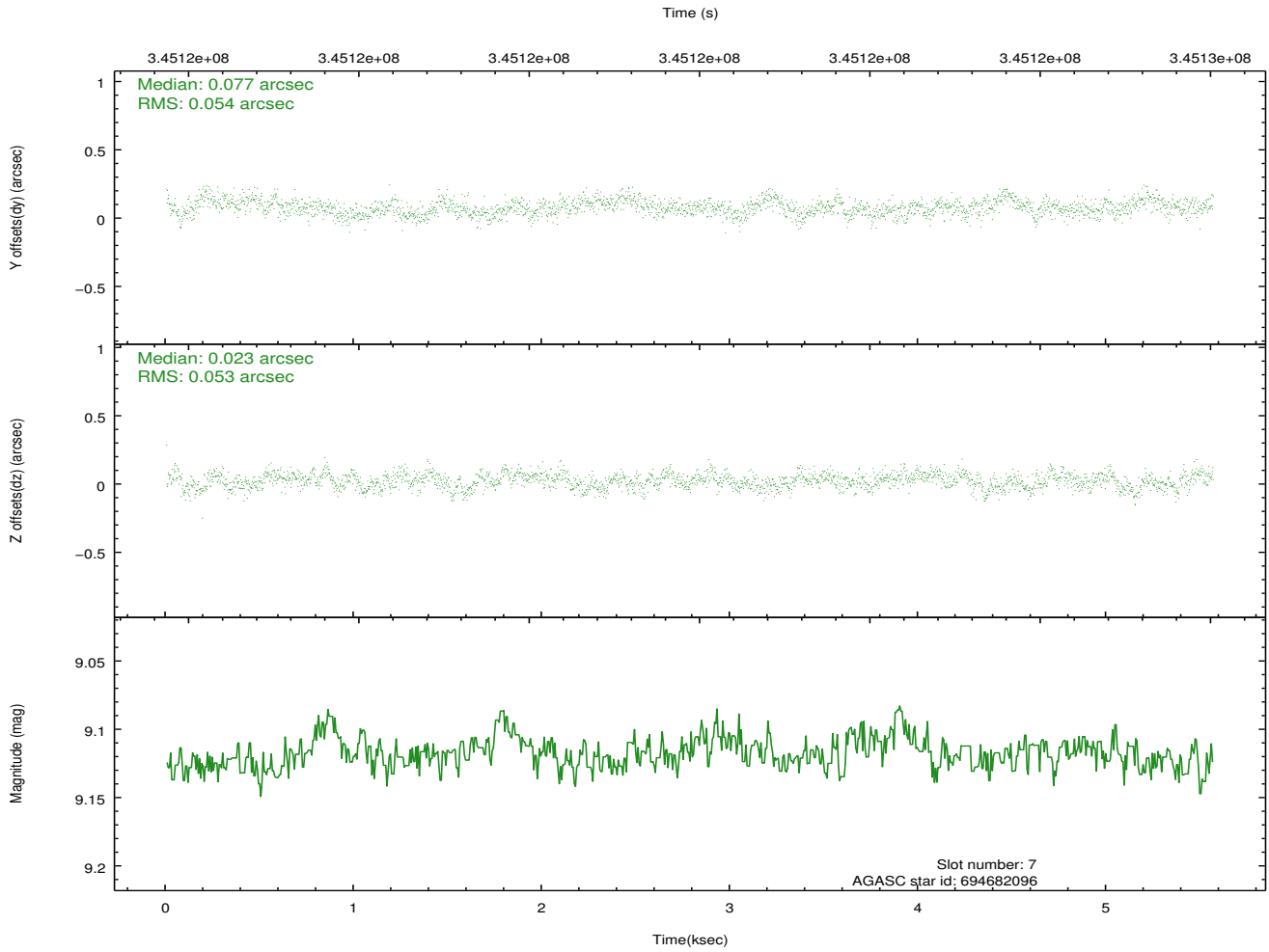
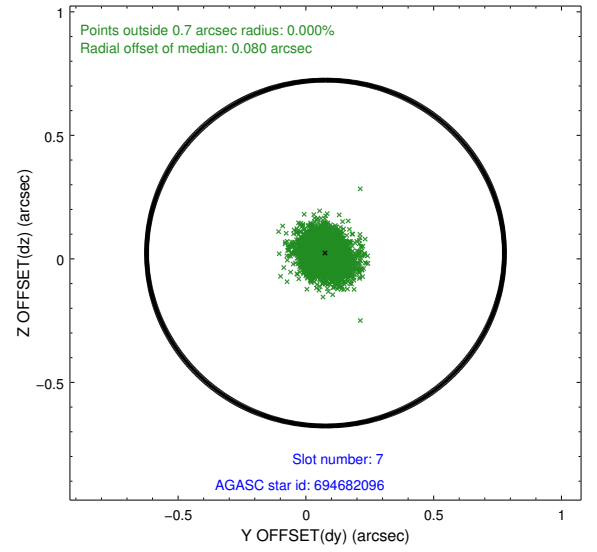
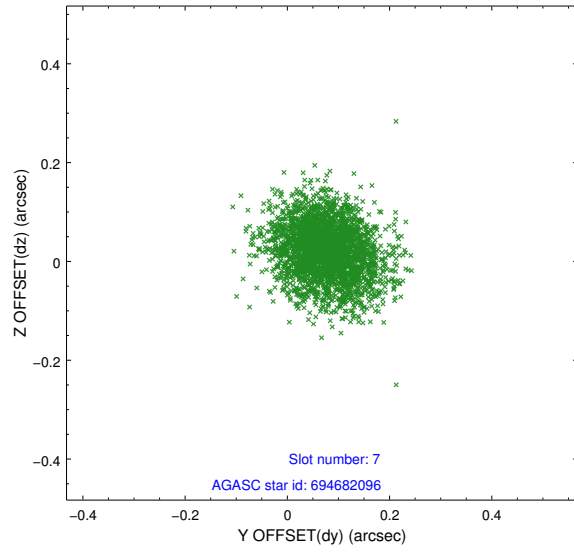
2.4.3 Slot 5



2.4.4 Slot 6

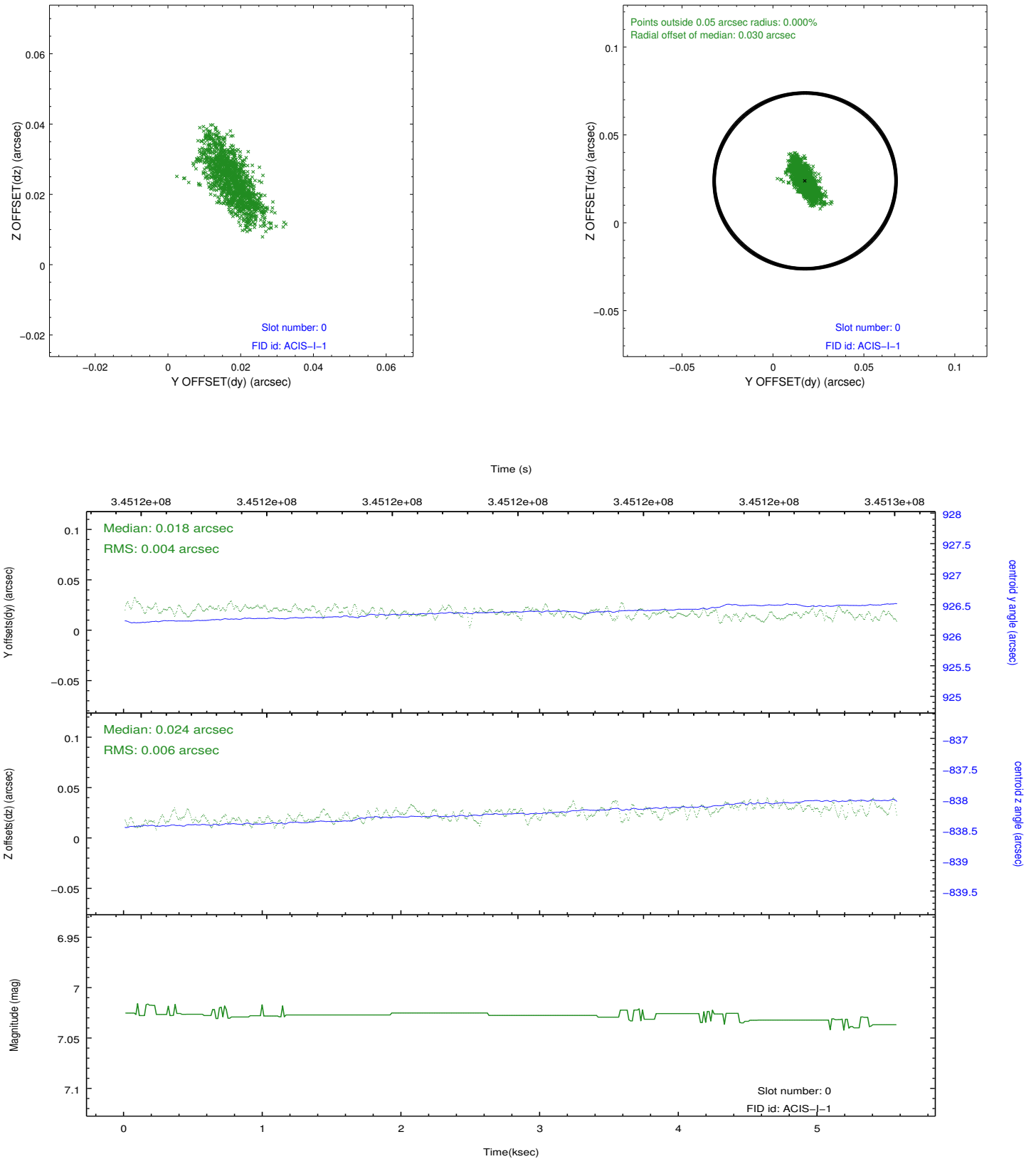


2.4.5 Slot 7

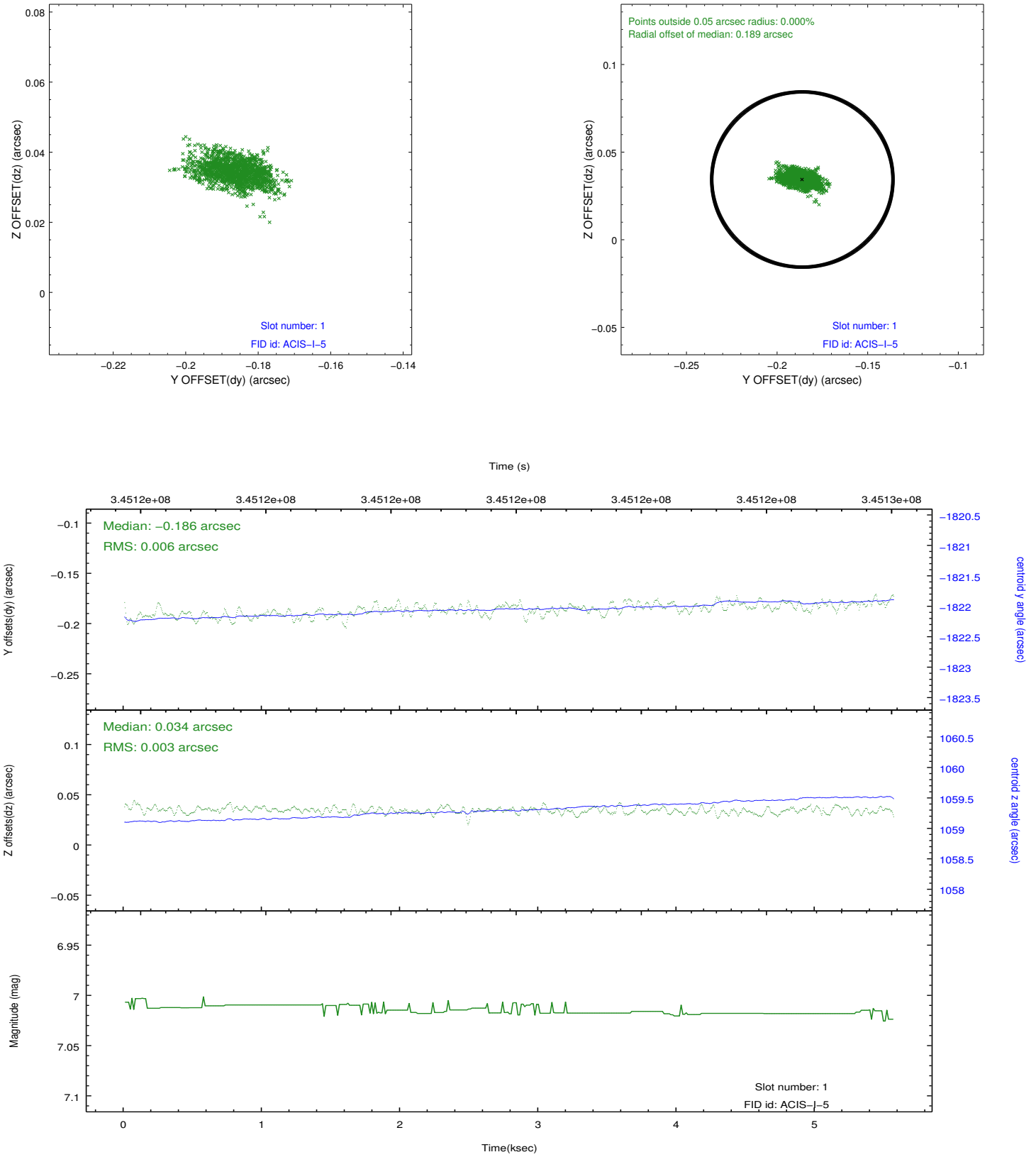


2.5 FID Slots

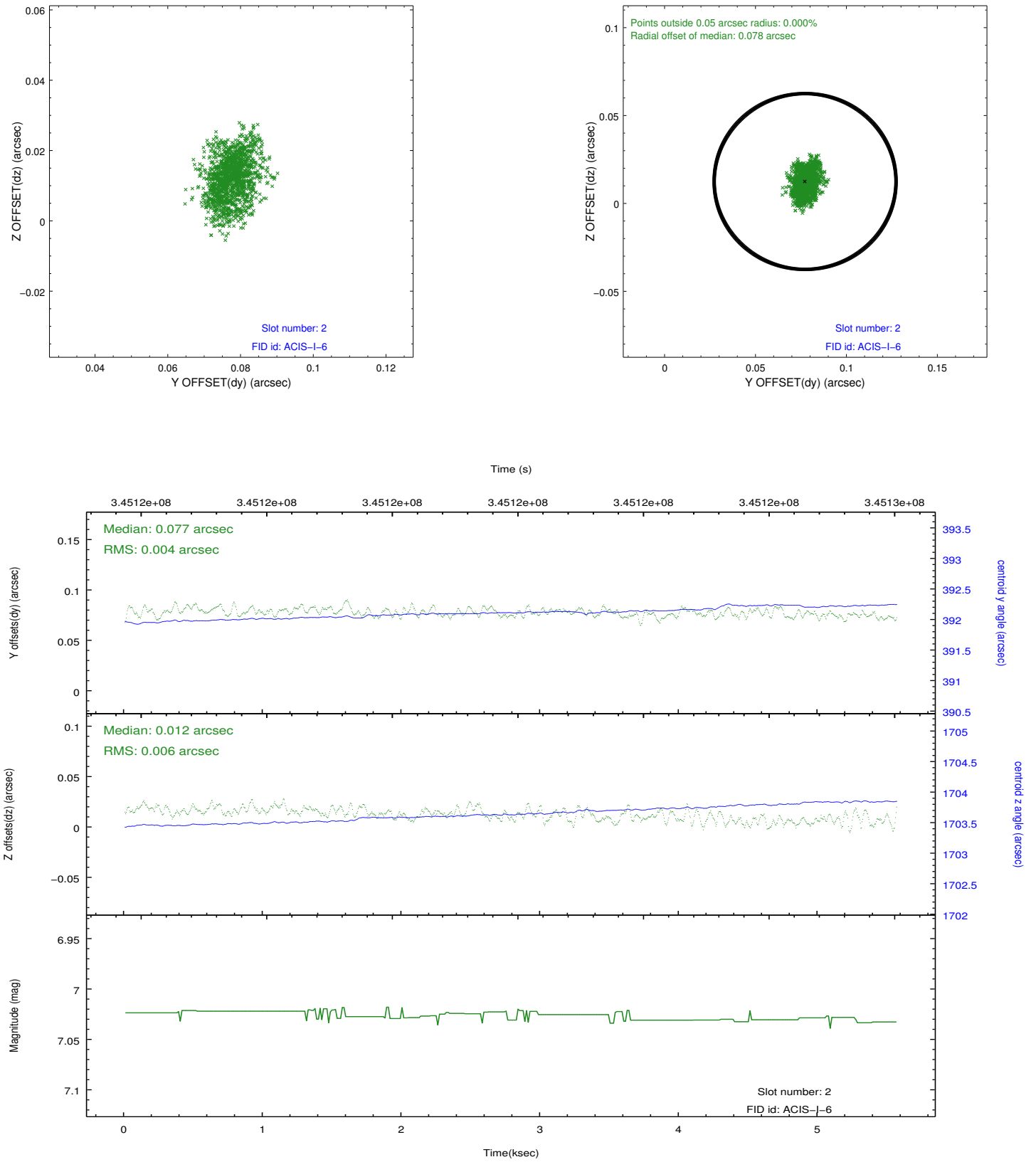
2.5.1 Slot 0



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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.950359

A.2 Comments