

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1533 - L2 Version 3
Chandra X-Ray Center

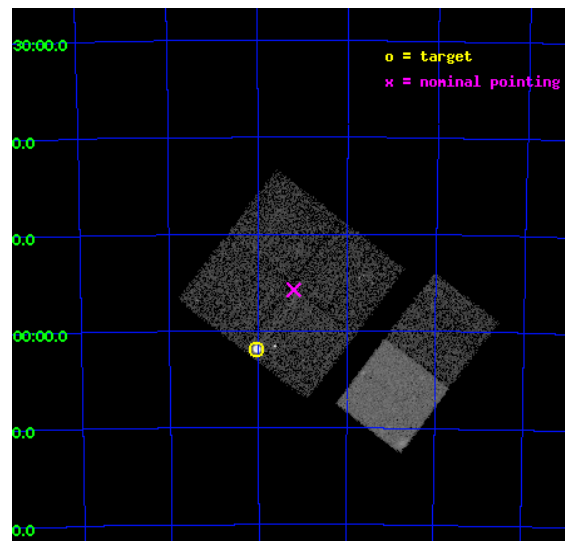
L2 Processing Date : Sep 17 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

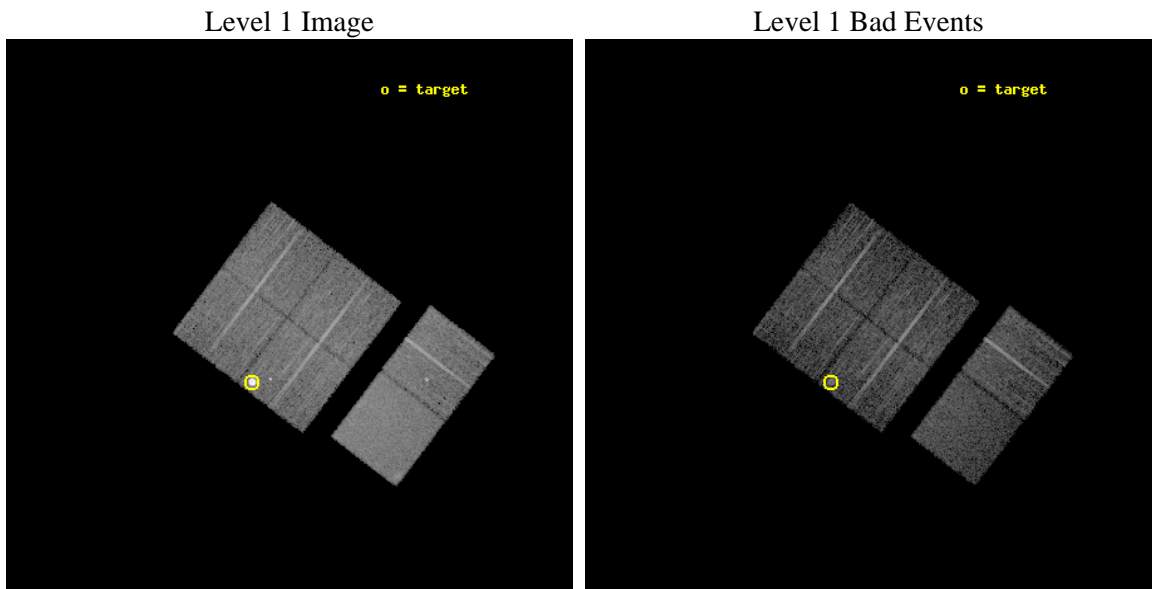
seq_num	590142	Sequence number
obs_id	1533	Observation id
title	ACIS CALIBRATION OBSERVATION OF THE SUPERNOVA REMNANT E0102-72 (JUNE 2001)	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip I3, T=120, Offsets=-7,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.799459851356	Nominal RA [deg]
dec_nom	-71.9294943041	Nominal Dec [deg]
roll_nom	127.3437270632	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7510.4000069797	Sum of GTIs [s]
livetime	7415.2987998714	Livetime [s]
ontime0	7510.4000069797	Sum of GTIs [s]
ontime1	7510.4000069797	Sum of GTIs [s]
ontime2	7510.4000069797	Sum of GTIs [s]
ontime3	7510.4000069797	Sum of GTIs [s]
ontime6	7510.4000069797	Sum of GTIs [s]
ontime7	7510.4000069797	Sum of GTIs [s]
l2events	74695	Number of level 2 events



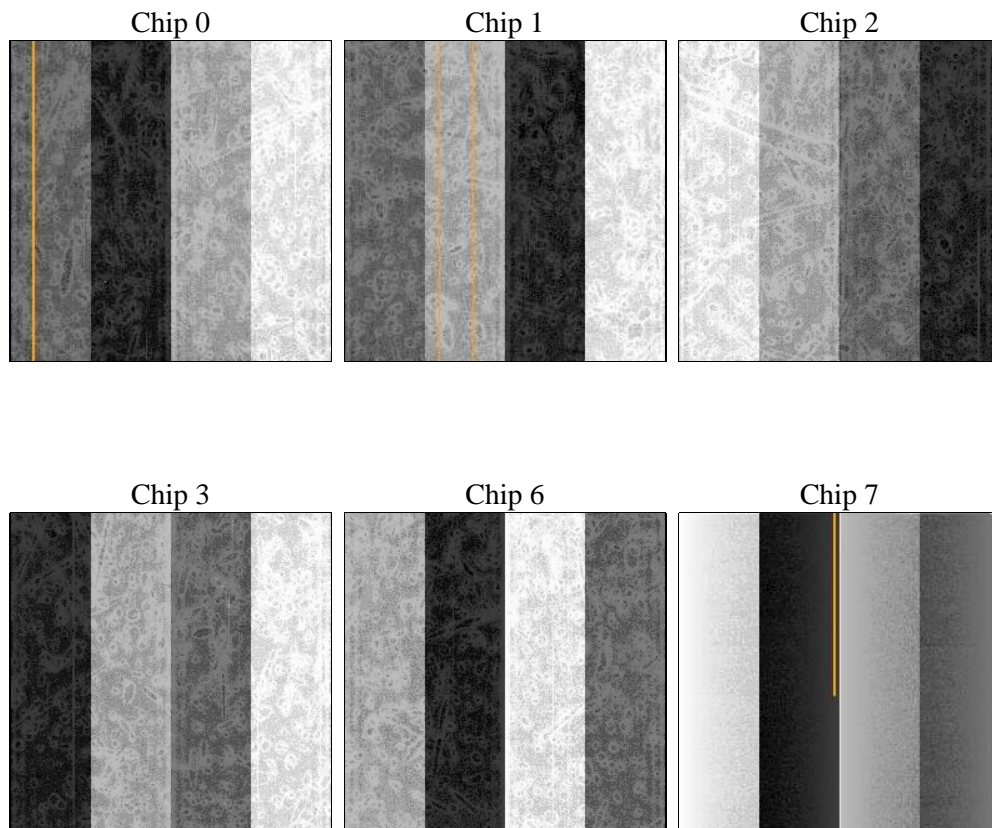
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7755.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7510.4000069797	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	7510.4000069797	Sum of GTIs [s]
date	2012-09-17T17:58:26	Date and time of file creation	ontime1	7510.4000069797	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7510.4000069797	Sum of GTIs [s]
			ontime3	7510.4000069797	Sum of GTIs [s]
			ontime6	7510.4000069797	Sum of GTIs [s]
			ontime7	7510.4000069797	Sum of GTIs [s]
			l1events	326195	Number of level 1 events

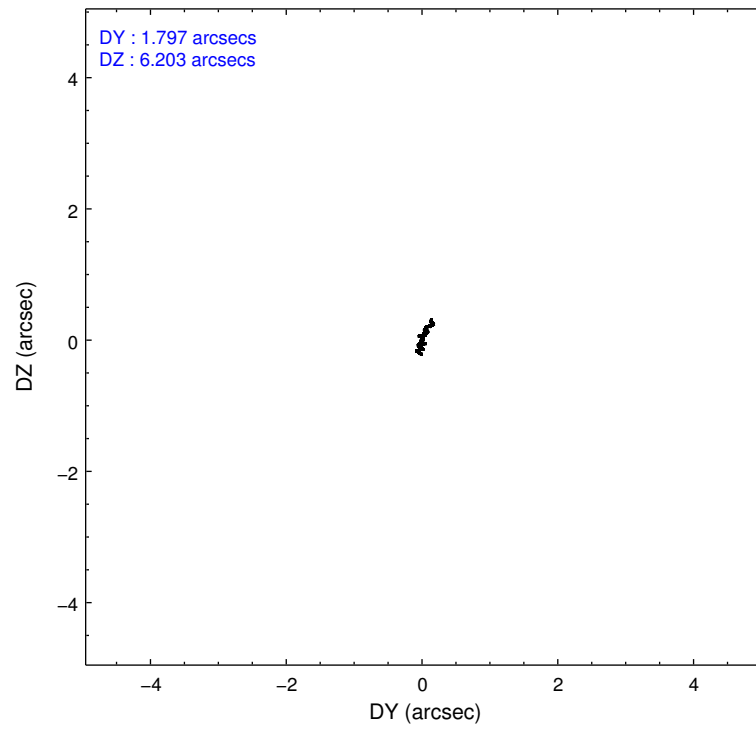
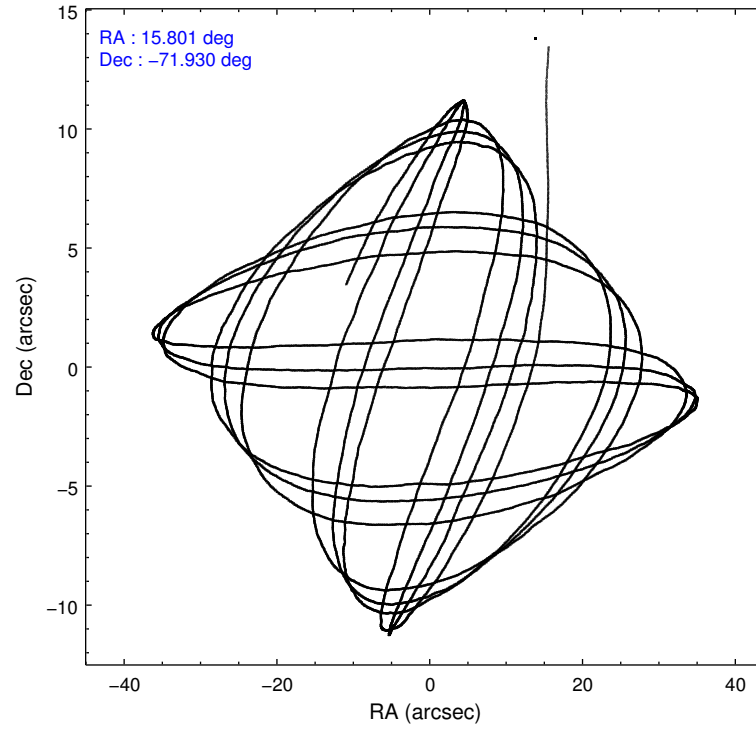
2.1.4 Events

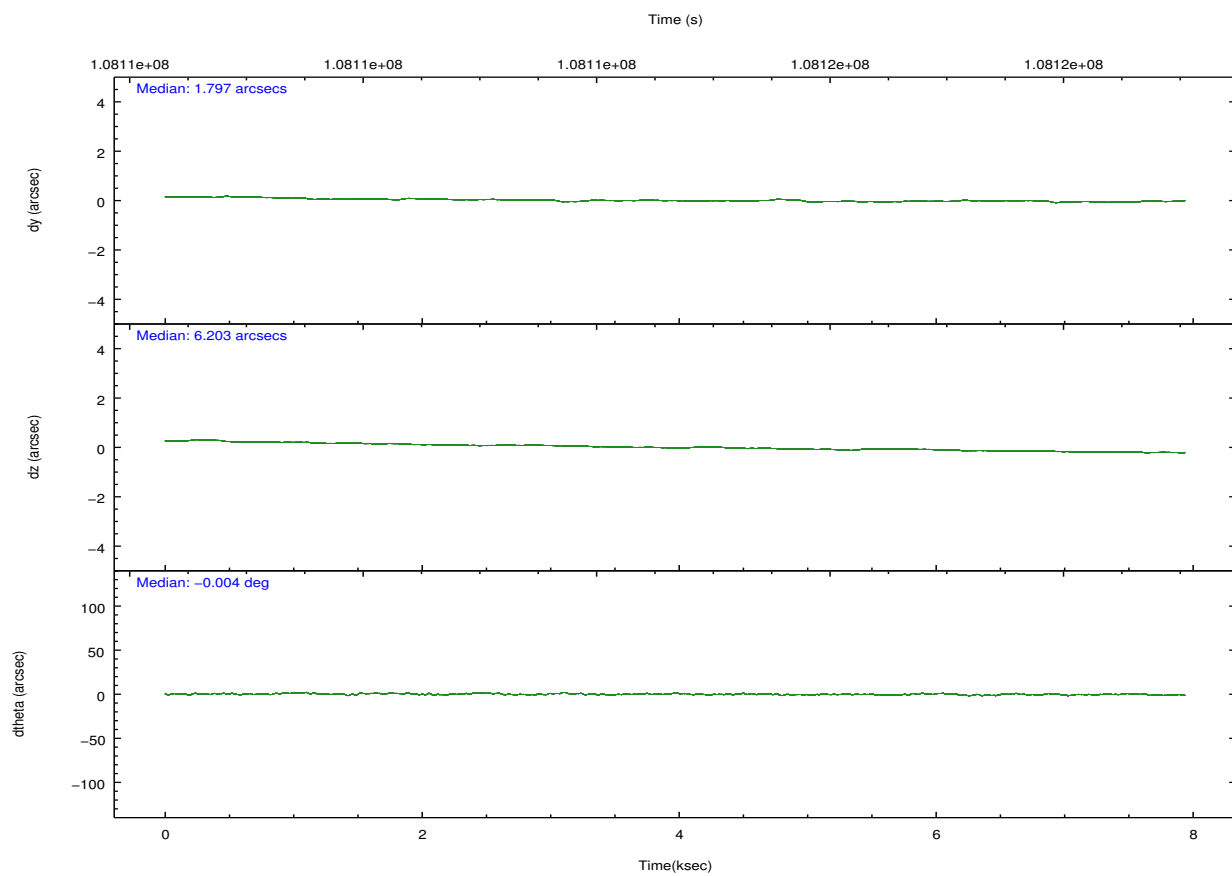
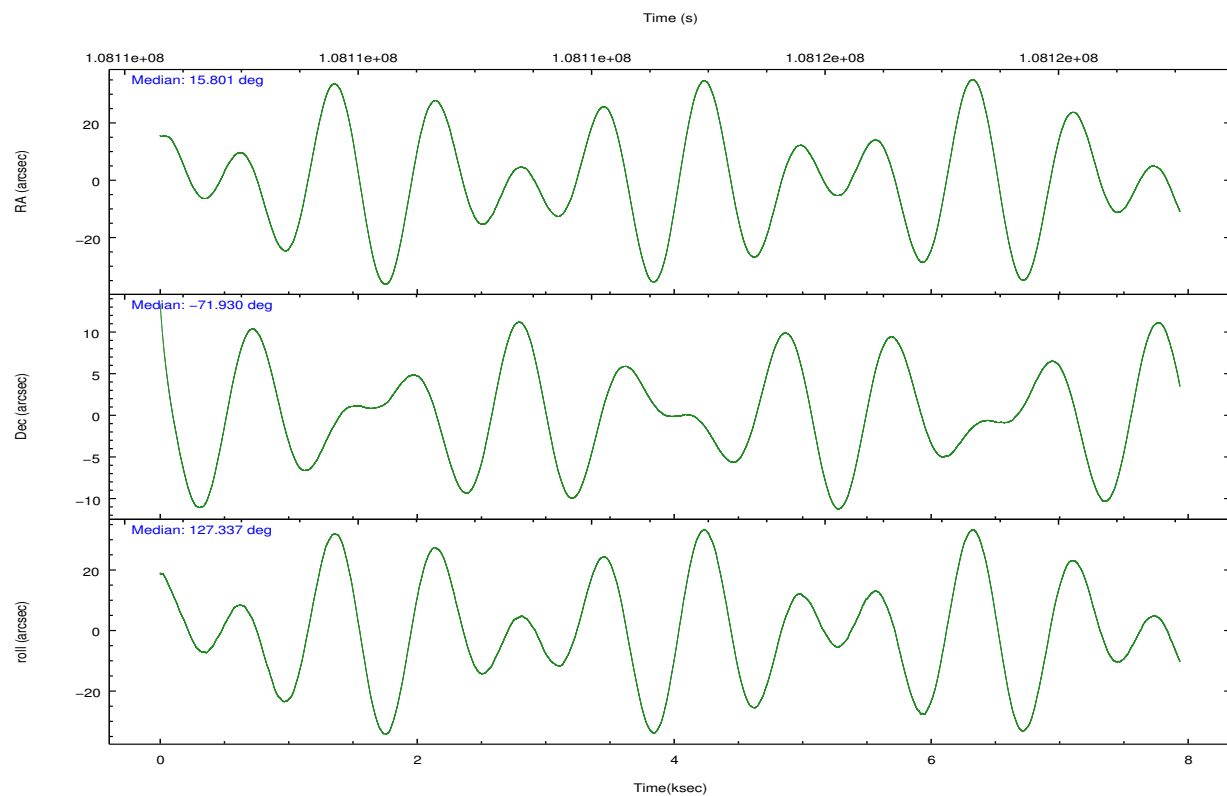
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	44717	44530	48376	72721	52443	63408	grade 0 events	2443	2479	2534	22978	2933	2839
rejected events	39058	38589	42712	43446	46044	36370		5%	5%	5%	31%	5%	4%
rejected %	87%	86%	88%	59%	87%	57%	grade 1 events	27	22	29	193	28	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	1225	1201	1116	3013	1169	5348
								2%	2%	2%	4%	2%	8%
							grade 3 events	506	586	494	989	549	2514
								1%	1%	1%	1%	1%	3%
							grade 4 events	510	564	523	1033	533	2537
								1%	1%	1%	1%	1%	4%
							grade 5 events	1734	1831	1700	1947	2158	5999
								3%	4%	3%	2%	4%	9%
							grade 6 events	978	1115	1001	1278	1219	13816
								2%	2%	2%	1%	2%	21%
							grade 7 events	37294	36732	40979	41290	43854	30295
								83%	82%	84%	56%	83%	47%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.881139	15.79945985135647	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.940039	-71.92949430409973	Alternating exposures requested	N	N
[deg] Pointing Roll	127.212687	127.343727063198	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	107740864.184000	107740864.184000			
[s] Window stop time (MET)	110246464.184000	110246464.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	108110885.184000	108110100.42			
Observation start date	2001-06-05T06:47:01	2001-06-05T06:35:00			
[s] Observation end time (MET)	108118640.184000	108118773.97033			
Observation end date	2001-06-05T08:56:16	2001-06-05T08:59:33			
Read mode	TIMED	TIMED			

2.3 Aspect



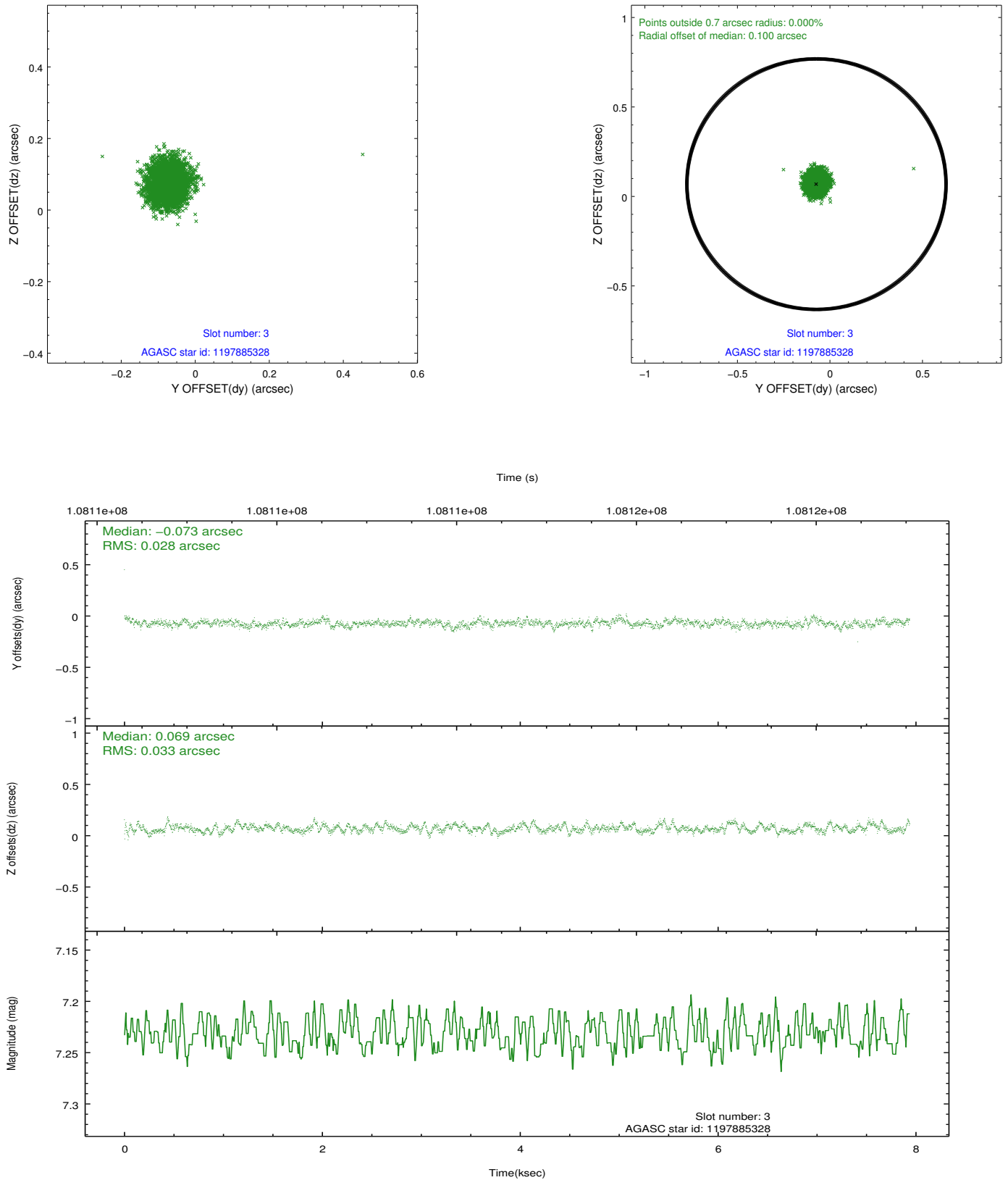


Slot Statistics

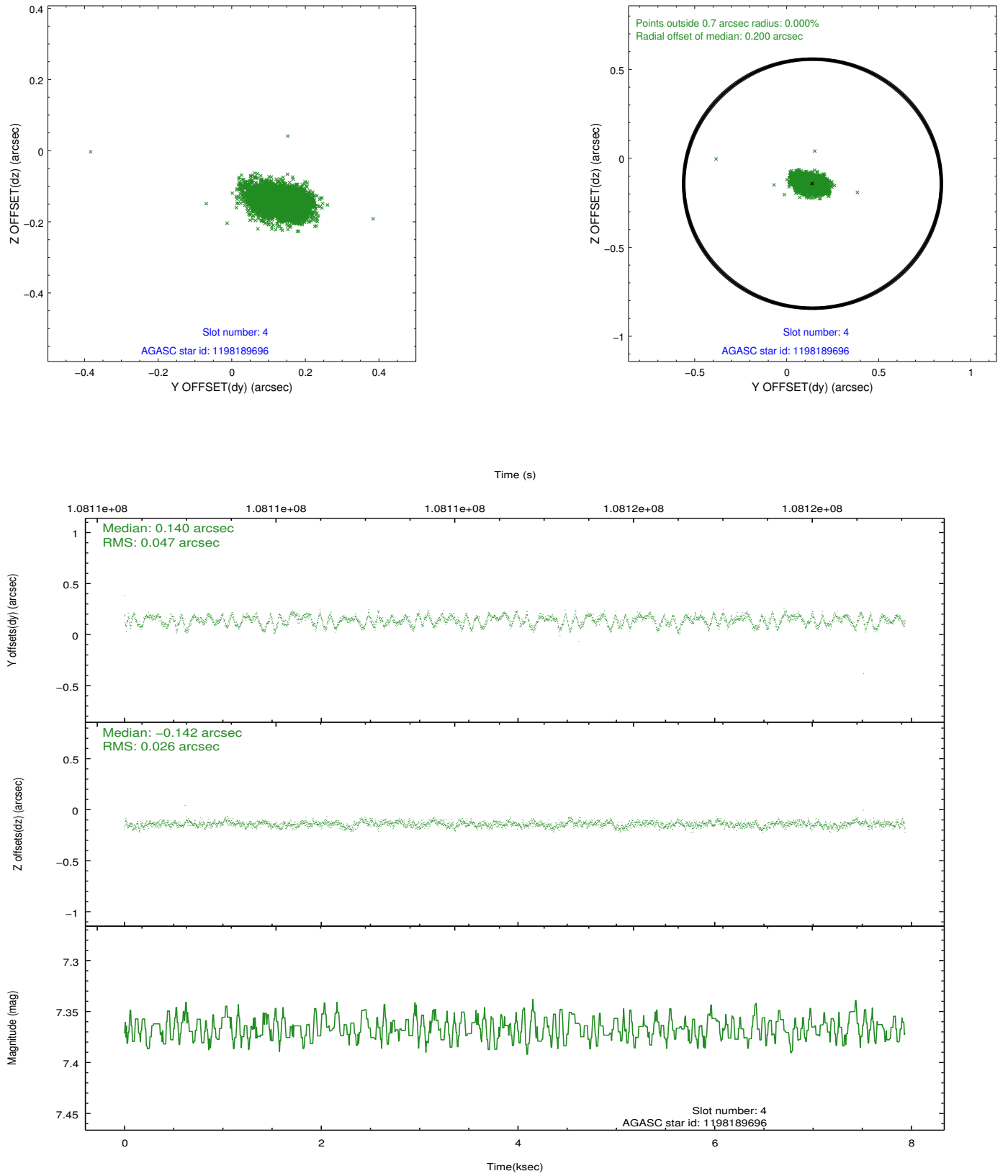
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1936	0.037	-0.045	0.010	0.016	0.000000	0.000000	938.08	-829.61
1	FID	ACIS-I-5	7.23	1936	0.102	0.123	0.012	0.021	0.000000	0.000000	-1809.63	1067.61
2	FID	ACIS-I-6	7.25	1935	-0.228	-0.007	0.011	0.021	0.000000	0.000000	402.51	1712.86
3	GUIDE	1197885328	7.23	3872	-0.073	0.069	0.046	0.074	16.283090	-71.733943	316.39	-807.71
4	GUIDE	1198189696	7.37	3873	0.140	-0.142	0.055	0.093	15.223750	-72.697522	-1748.31	2212.83
5	GUIDE	1197750936	7.57	3873	-0.075	0.068	0.045	0.075	15.387940	-71.549550	1458.01	-399.08
6	GUIDE	1197884536	8.50	3873	0.008	0.039	0.065	0.107	17.160729	-71.835289	-578.70	-1361.28
7	GUIDE	1197884712	8.31	3872	0.004	-0.033	0.056	0.089	16.087398	-72.252690	-1032.81	501.47

2.4 Star Slots

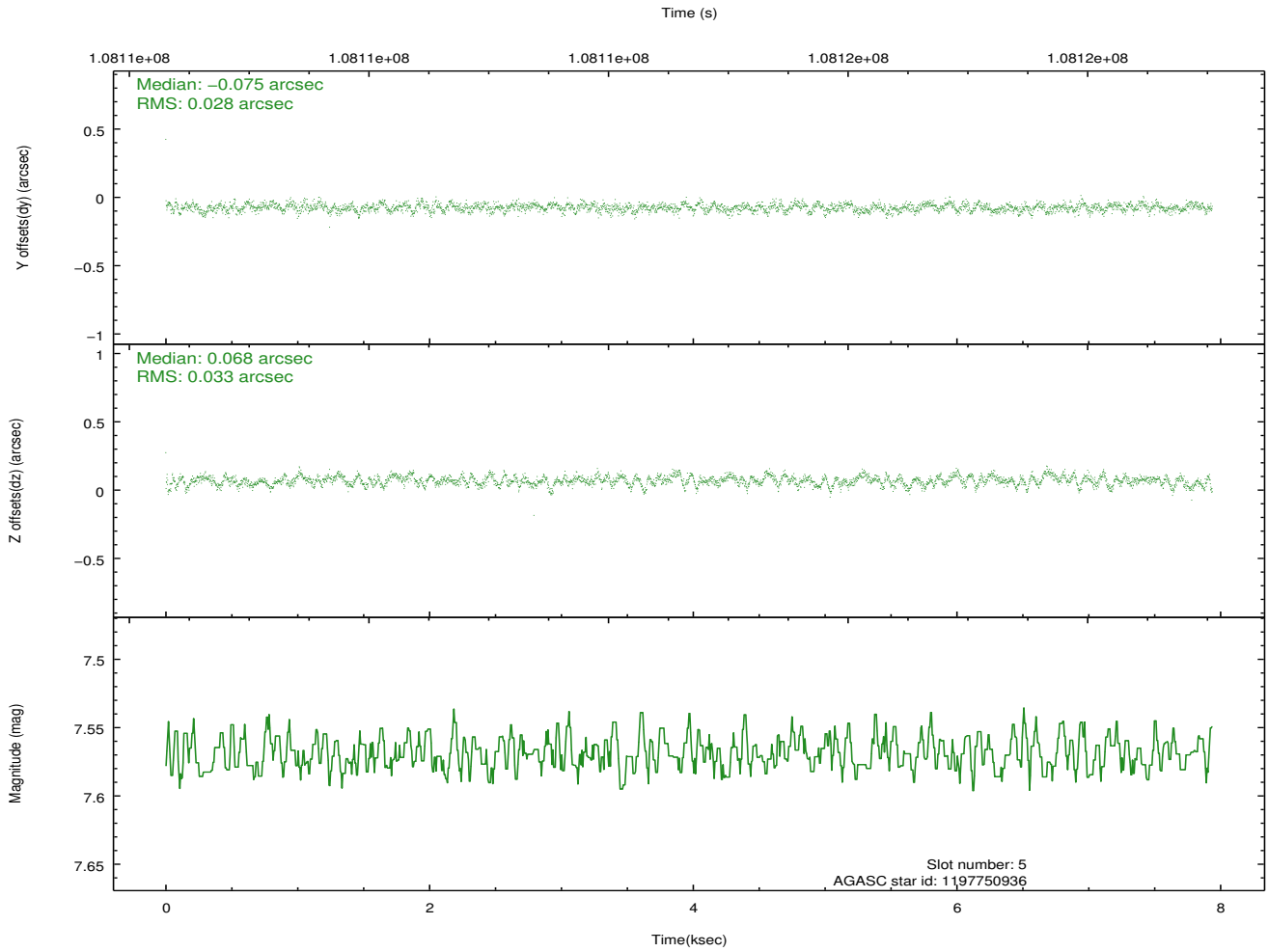
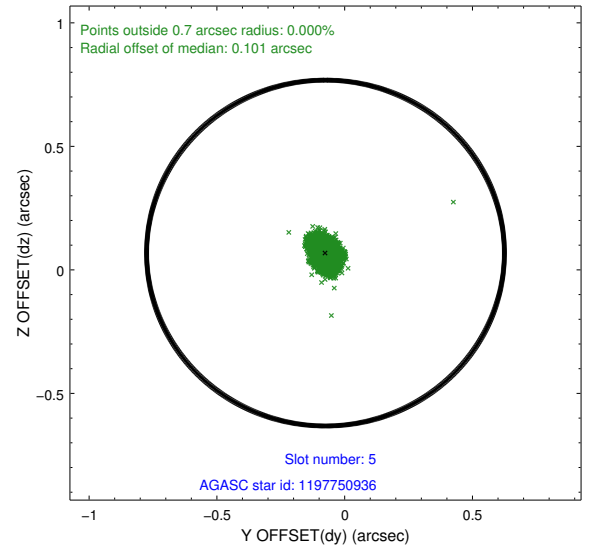
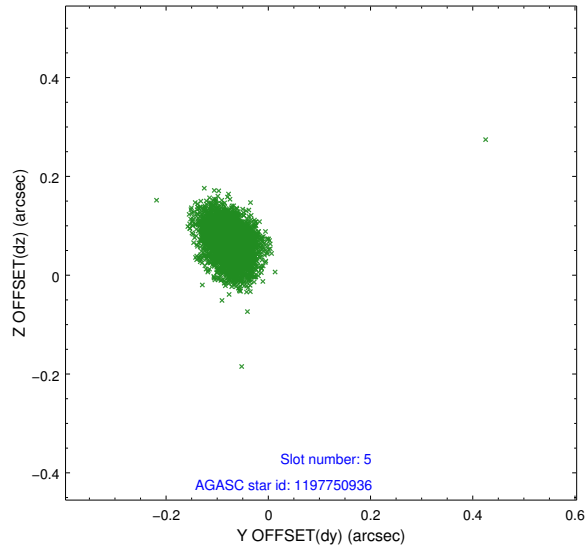
2.4.1 Slot 3



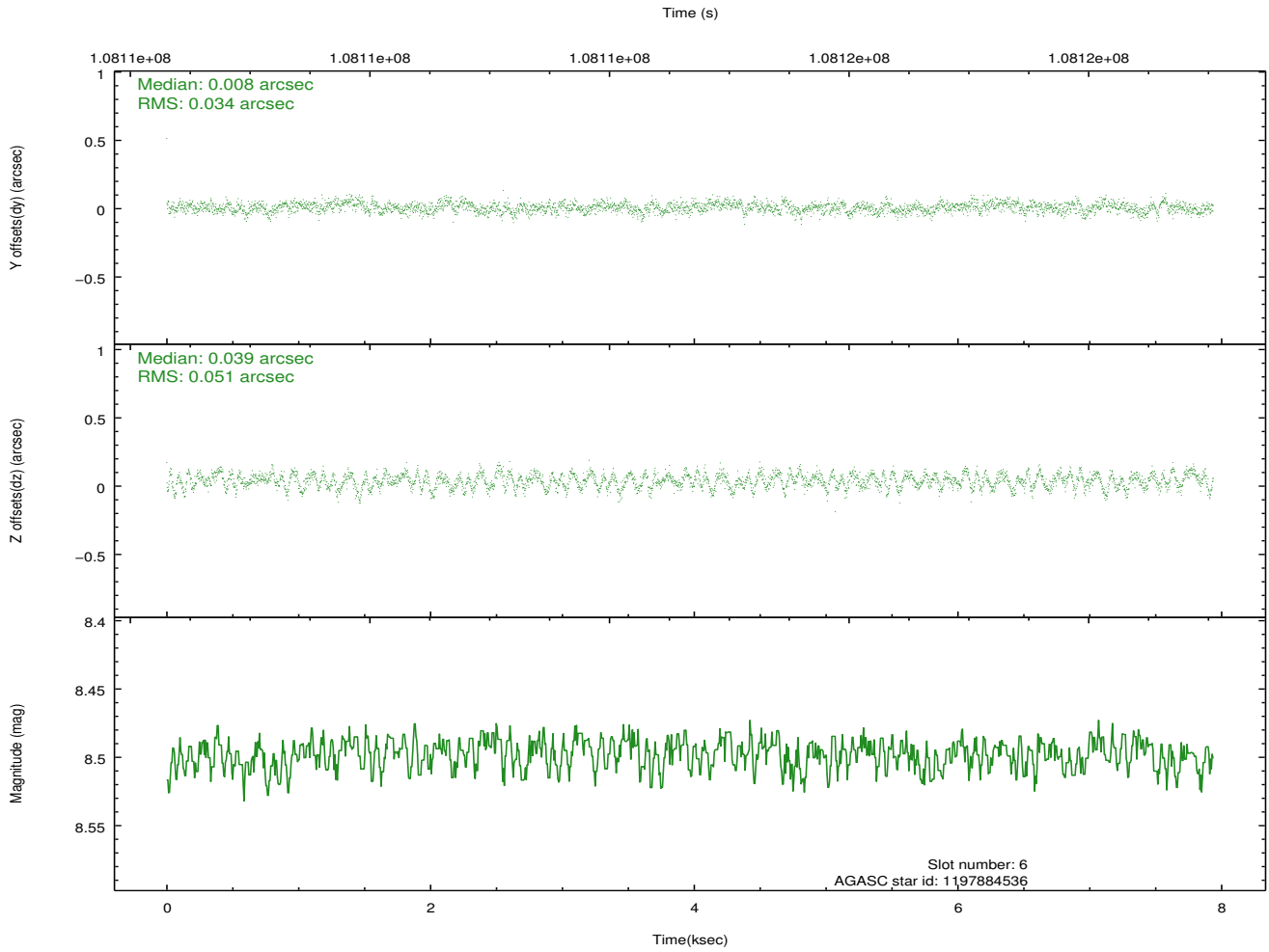
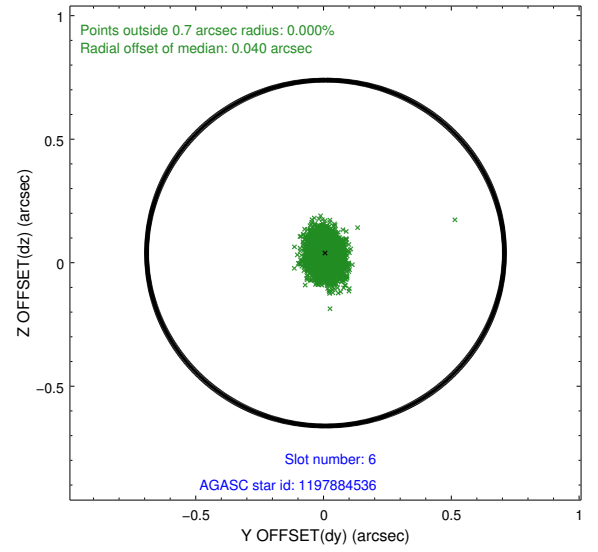
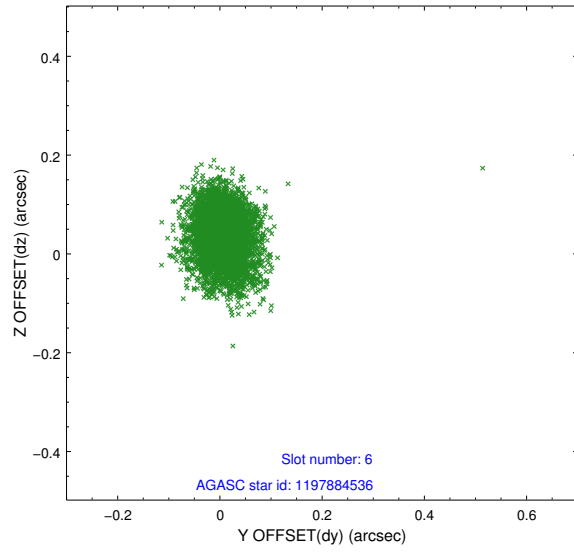
2.4.2 Slot 4



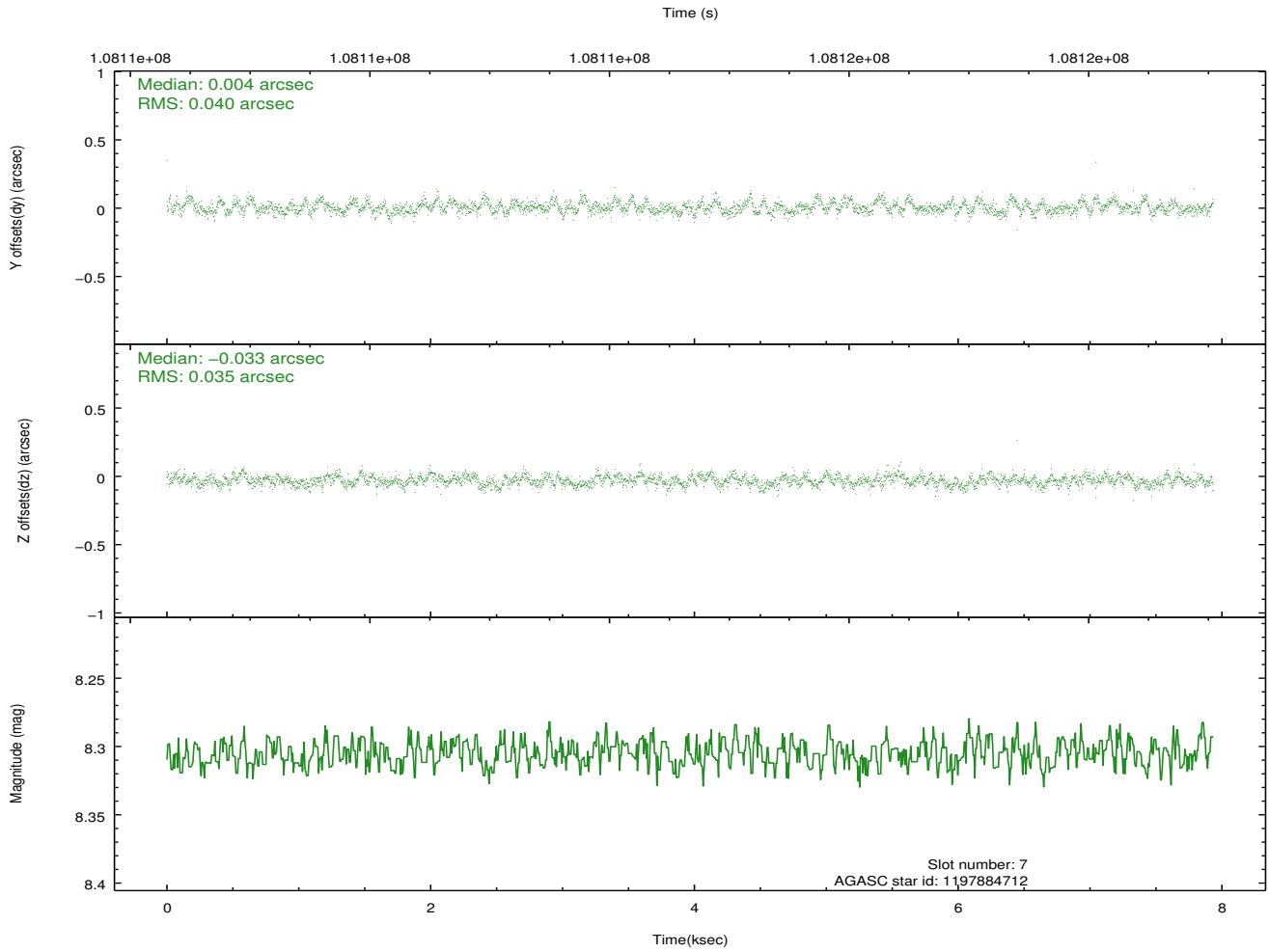
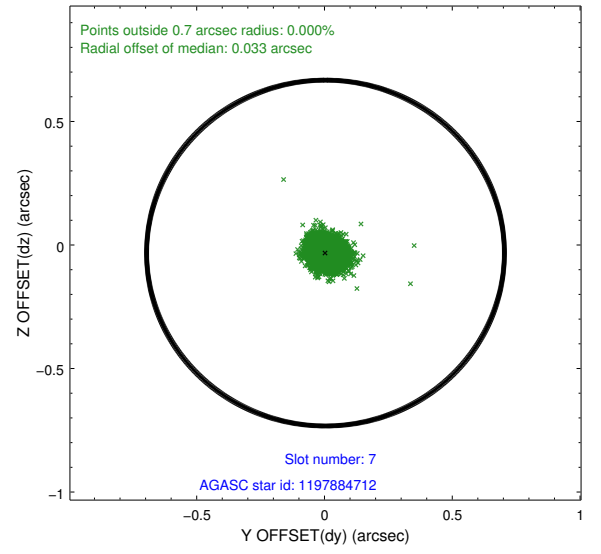
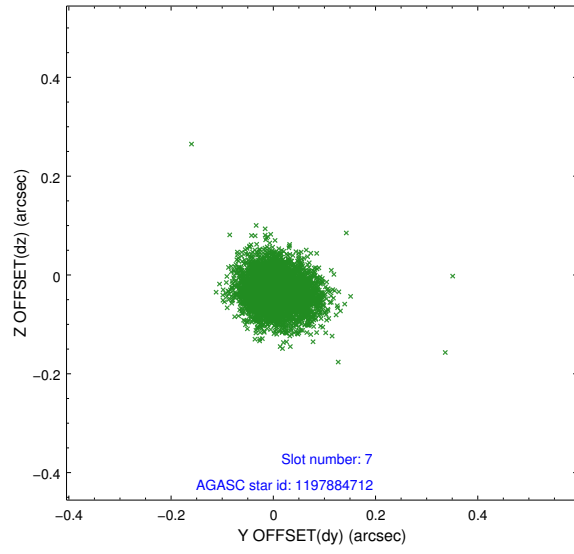
2.4.3 Slot 5



2.4.4 Slot 6

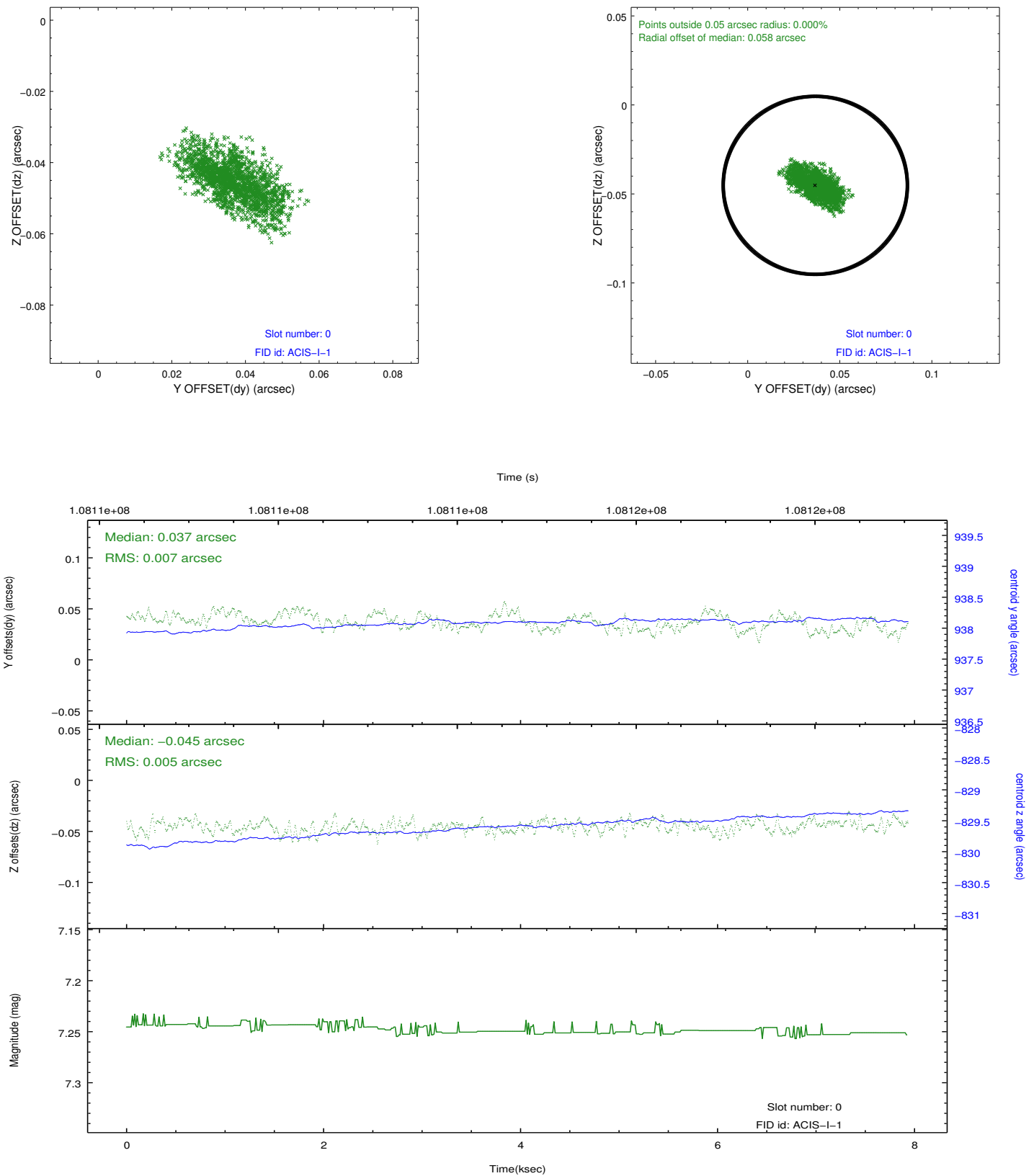


2.4.5 Slot 7

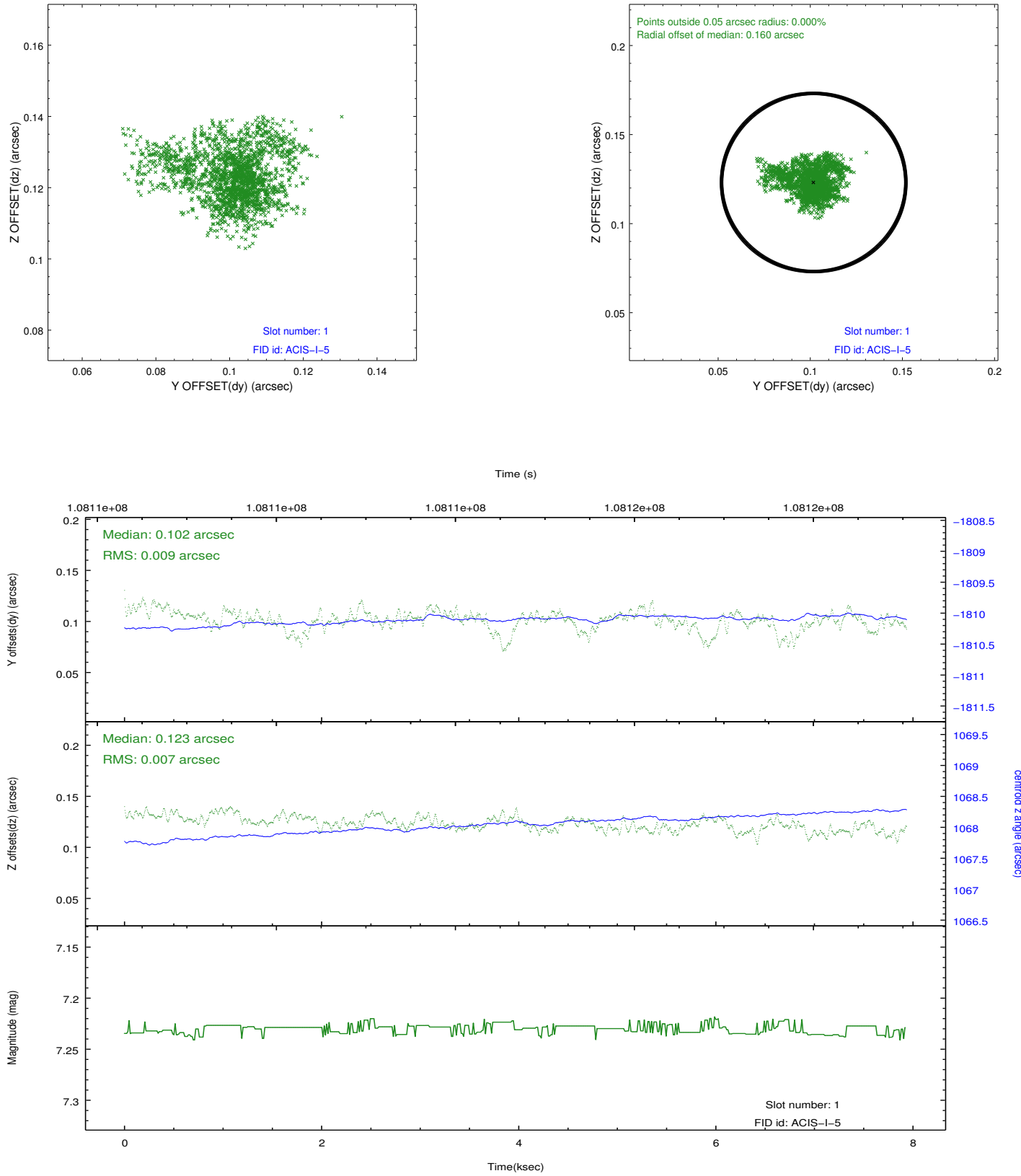


2.5 FID Slots

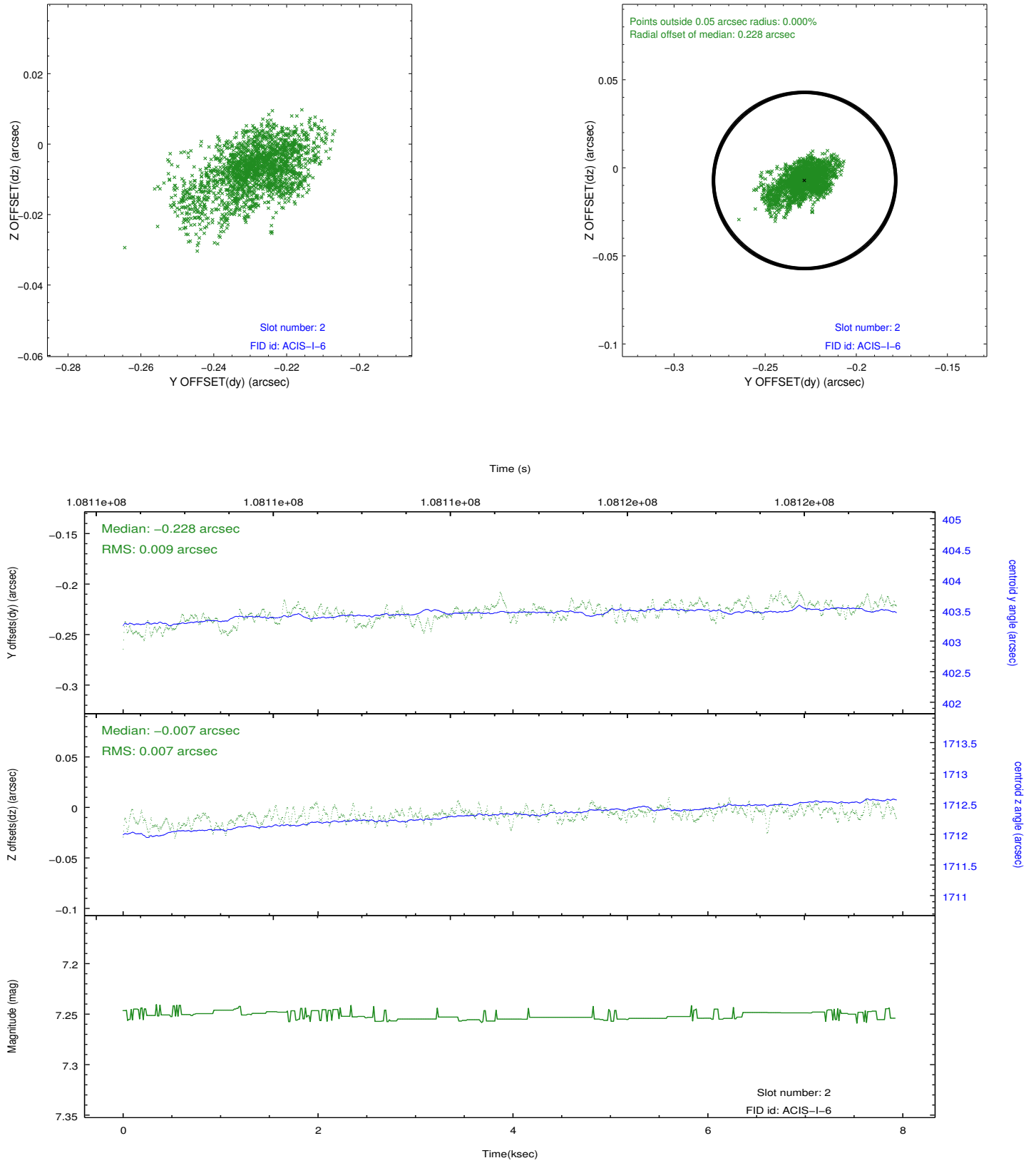
2.5.1 Slot 0



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)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.513

A.2 Comments

Window constraint OK.