

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3547 - L2 Version 3
Chandra X-Ray Center

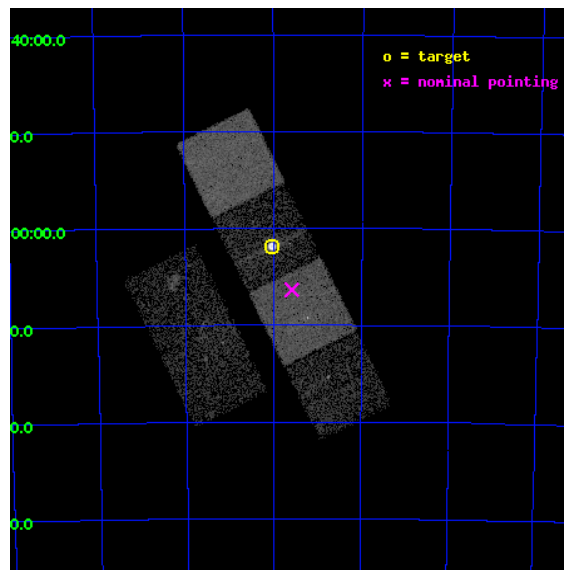
L2 Processing Date : Nov 3 2012

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1 Front

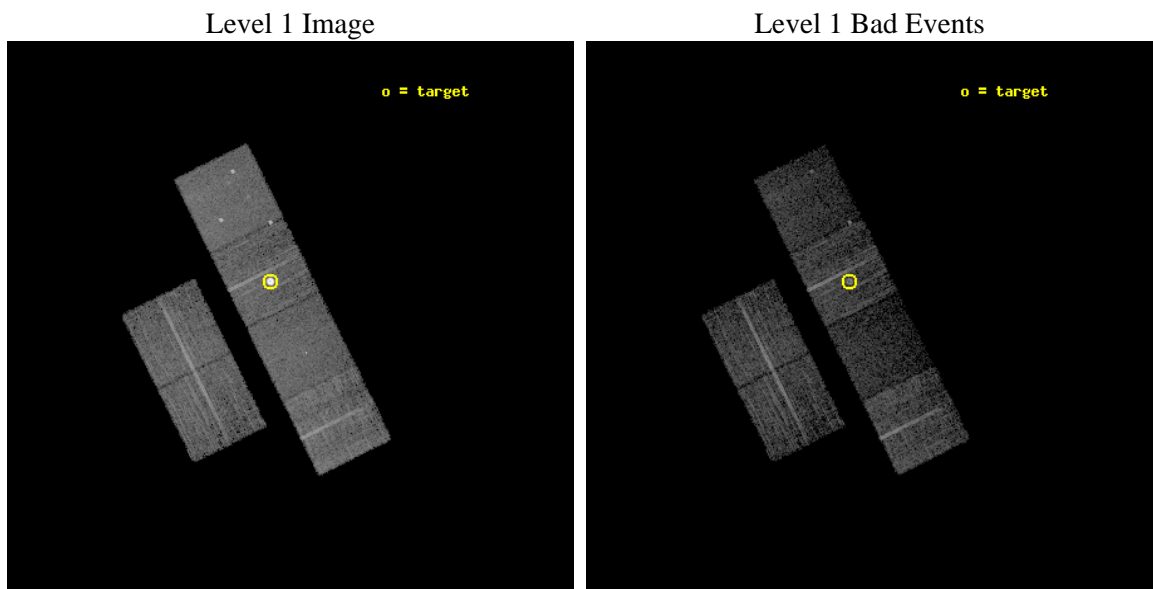
seq_num	590302	Sequence number
obs_id	3547	Observation id
title	AO4B ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S2,-120,5.15,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.896284178365	Nominal RA [deg]
dec_nom	-72.105999945196	Nominal Dec [deg]
roll_nom	63.645000418955	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7753.5999711156	Sum of GTIs [s]
livetime	7655.4192196239	Livetime [s]
ontime2	7753.5999711156	Sum of GTIs [s]
ontime3	7753.5999711156	Sum of GTIs [s]
ontime5	7753.5999711156	Sum of GTIs [s]
ontime6	7753.5999711156	Sum of GTIs [s]
ontime7	7753.5999711156	Sum of GTIs [s]
ontime8	7750.3590008318	Sum of GTIs [s]
l2events	82491	Number of level 2 events



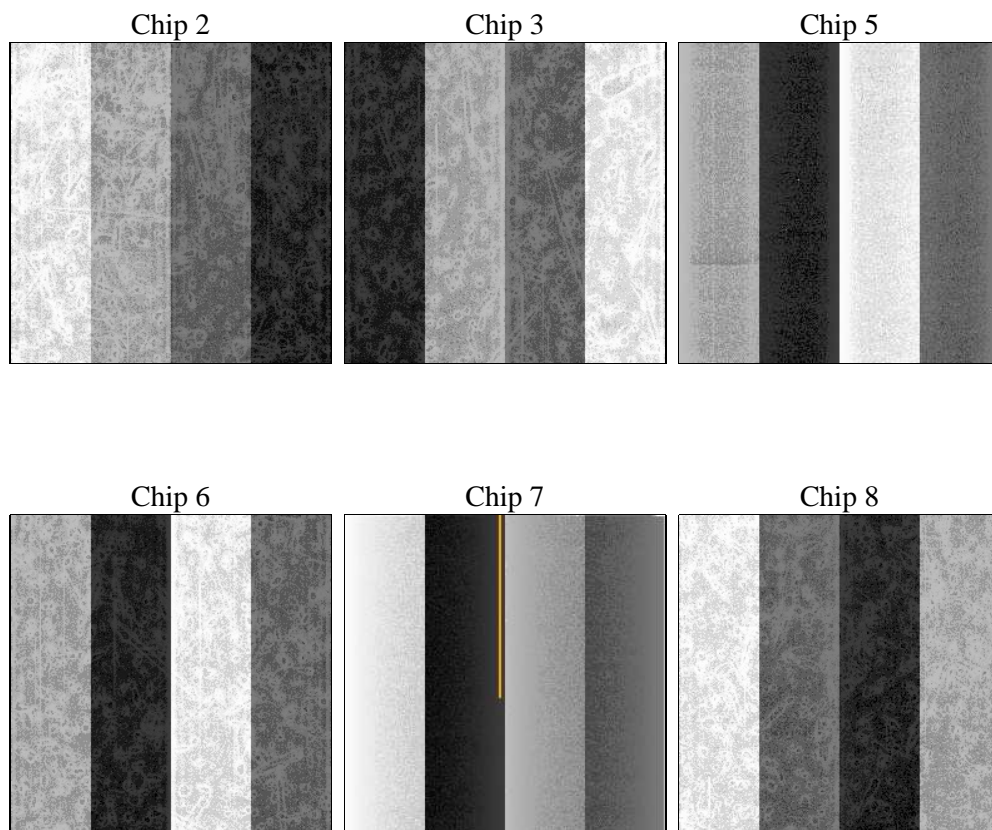
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7753.5999711156	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	7753.5999711156	Sum of GTIs [s]
date	2012-11-03T14:25:42	Date and time of file creation	ontime3	7753.5999711156	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7753.5999711156	Sum of GTIs [s]
			ontime6	7753.5999711156	Sum of GTIs [s]
			ontime7	7753.5999711156	Sum of GTIs [s]
			ontime8	7750.3590008318	Sum of GTIs [s]
			l1events	277921	Number of level 1 events

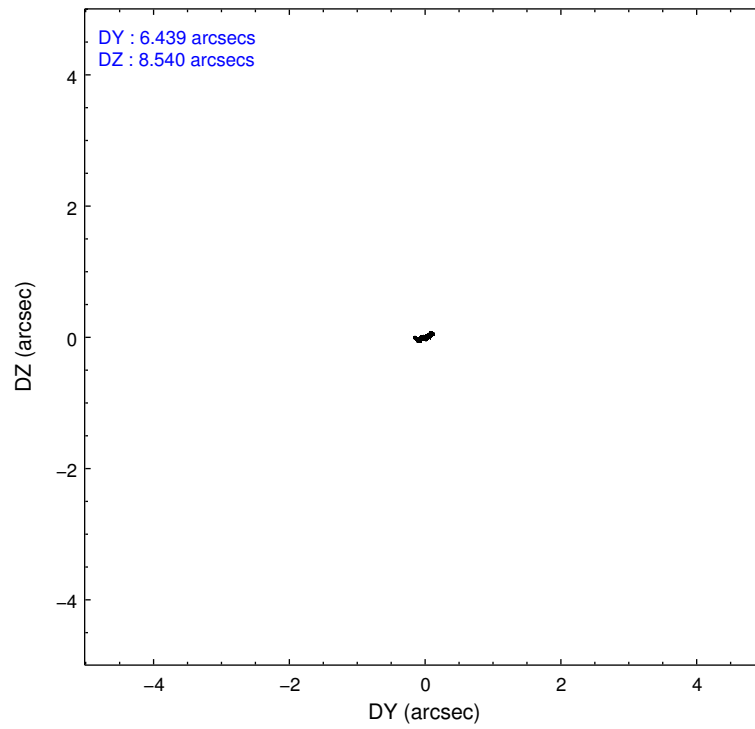
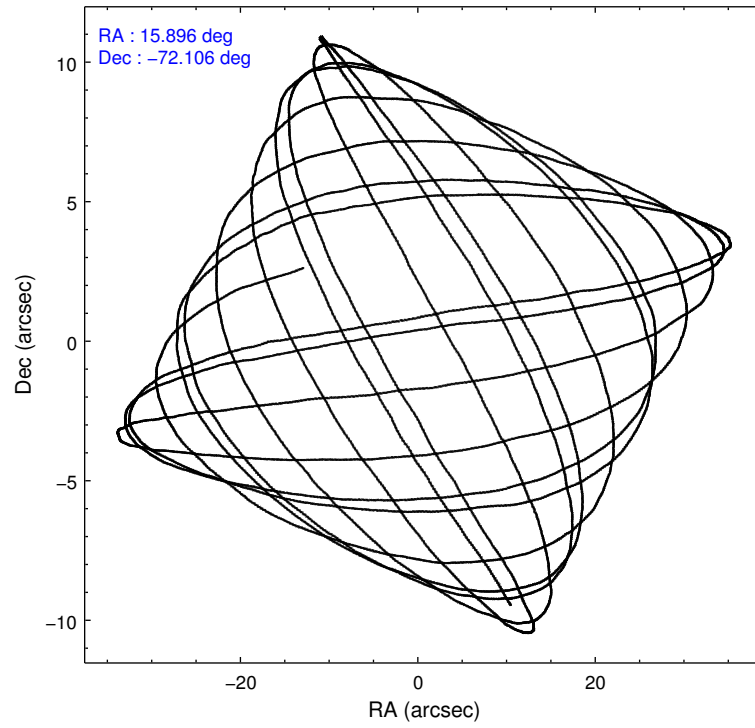
2.1.4 Events

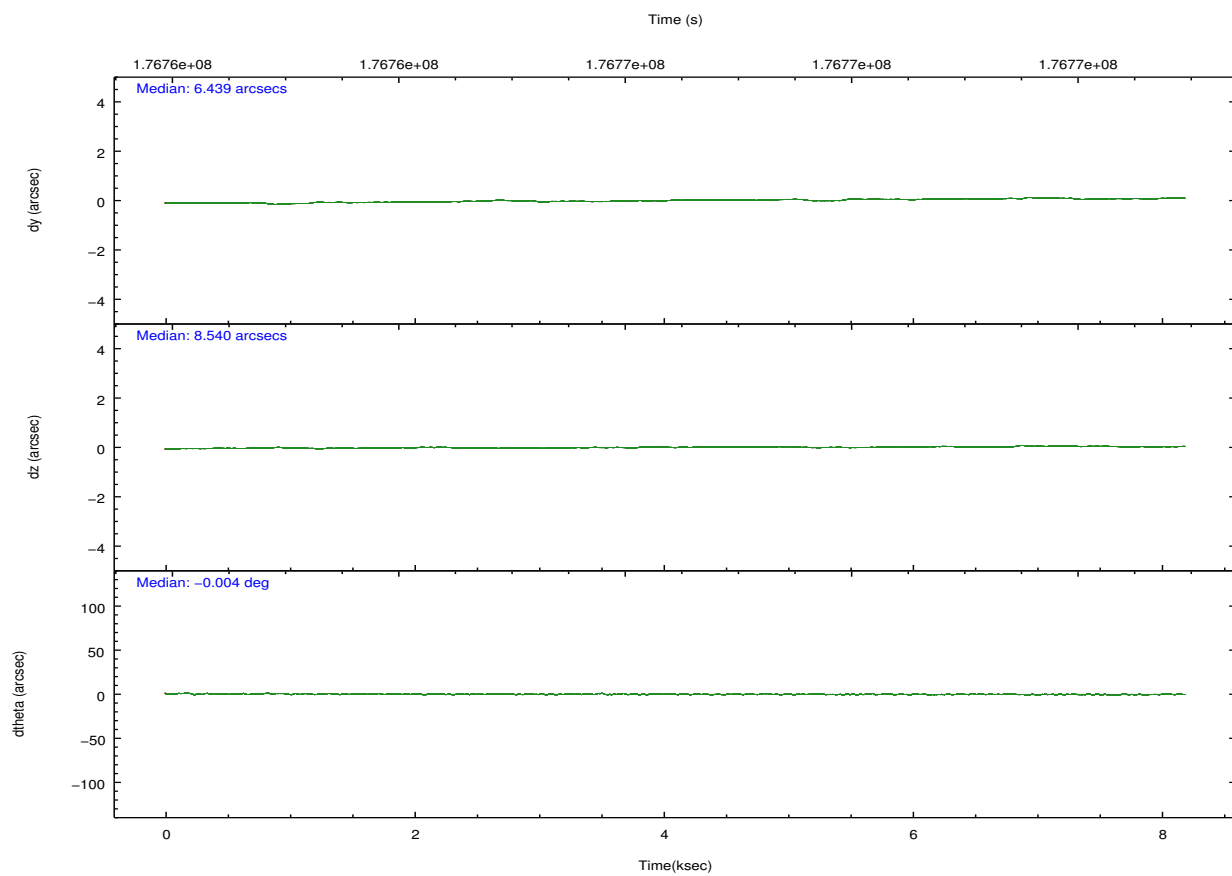
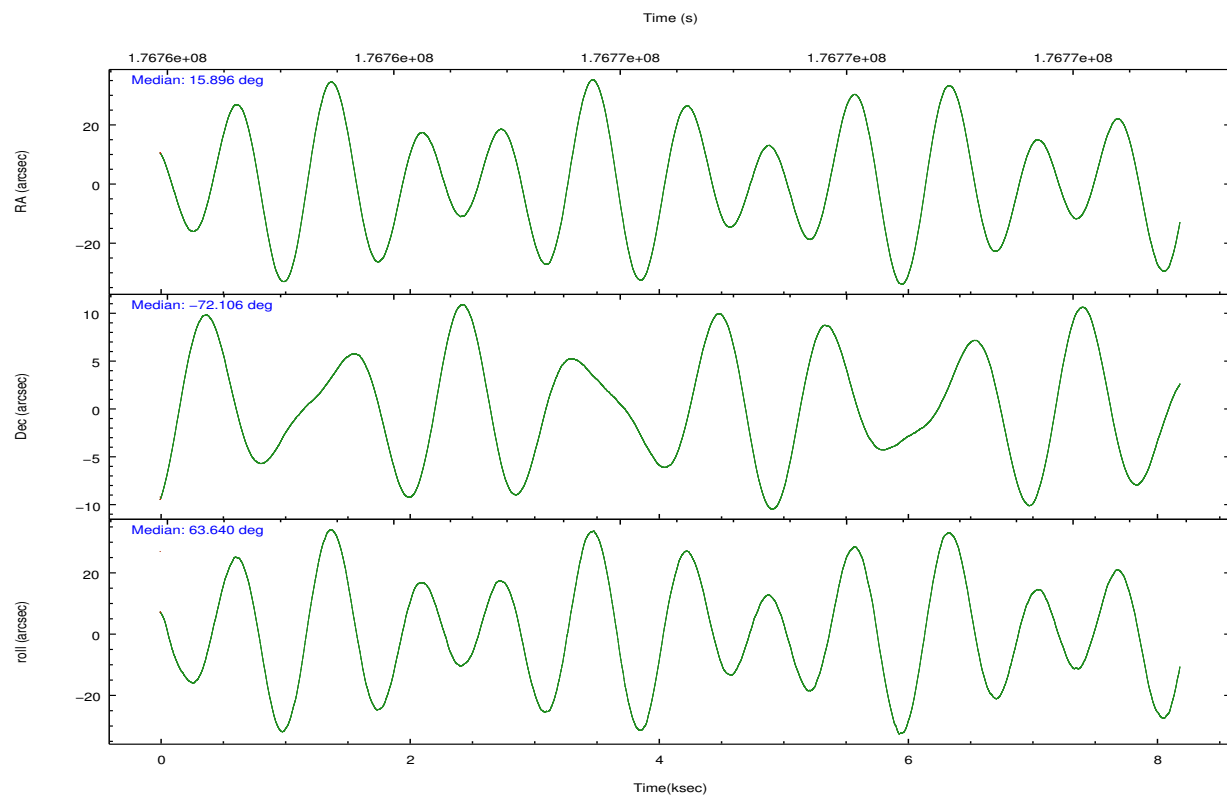
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40914	37076	47031	68213	36610	48077	grade 0 events	1715	1588	3933	27934	2234	3072
rejected events	36835	33295	21556	34689	17899	37679		4%	4%	8%	40%	6%	6%
rejected %	90%	89%	45%	50%	48%	78%	grade 1 events	27	18	260	258	55	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	929	748	7191	2825	4028	2302
								2%	2%	15%	4%	11%	4%
							grade 3 events	441	386	1198	956	1901	1230
								1%	1%	2%	1%	5%	2%
							grade 4 events	382	413	1289	917	1816	1103
								0%	1%	2%	1%	4%	2%
							grade 5 events	1049	1117	3995	1330	3902	1840
								2%	3%	8%	1%	10%	3%
							grade 6 events	613	647	11887	915	8744	2702
								1%	1%	25%	1%	23%	5%
							grade 7 events	35758	32159	17278	33078	13930	35800
								87%	86%	36%	48%	38%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.903279	15.89628417836452	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.133169	-72.10599994519607	Alternating exposures requested	N	N
[deg] Pointing Roll	63.495027	63.64500041895523	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	174614464.184000	174614464.184000			
[s] Window stop time (MET)	177292864.184000	177292864.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	176762533.184000	176762157.58247			
Observation start date	2003-08-08T20:41:09	2003-08-08T20:35:57			
[s] Observation end time (MET)	176770533.184000	176770667.13284			
Observation end date	2003-08-08T22:54:29	2003-08-08T22:57:47			
Read mode	TIMED	TIMED			

2.3 Aspect



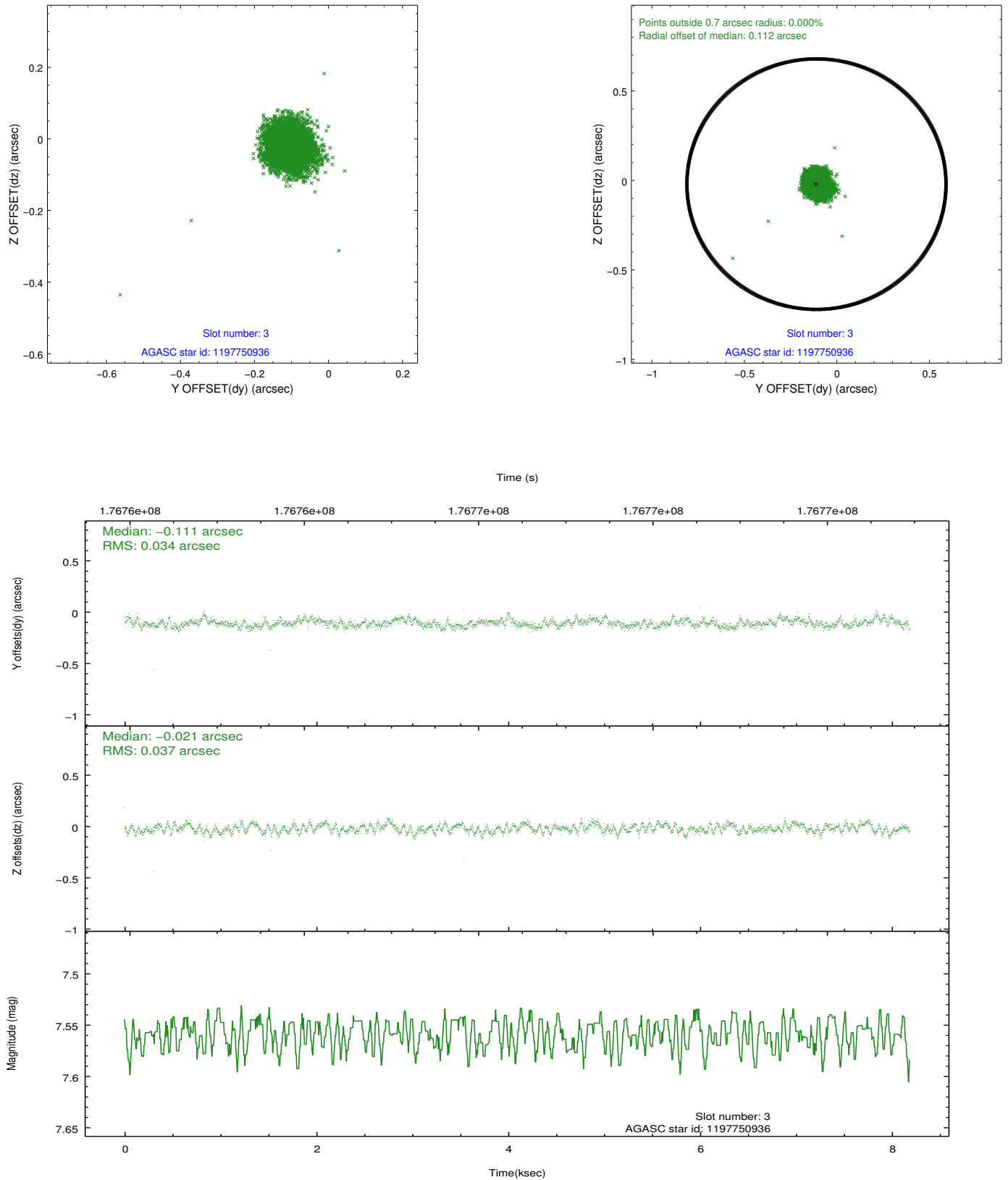


Slot Statistics

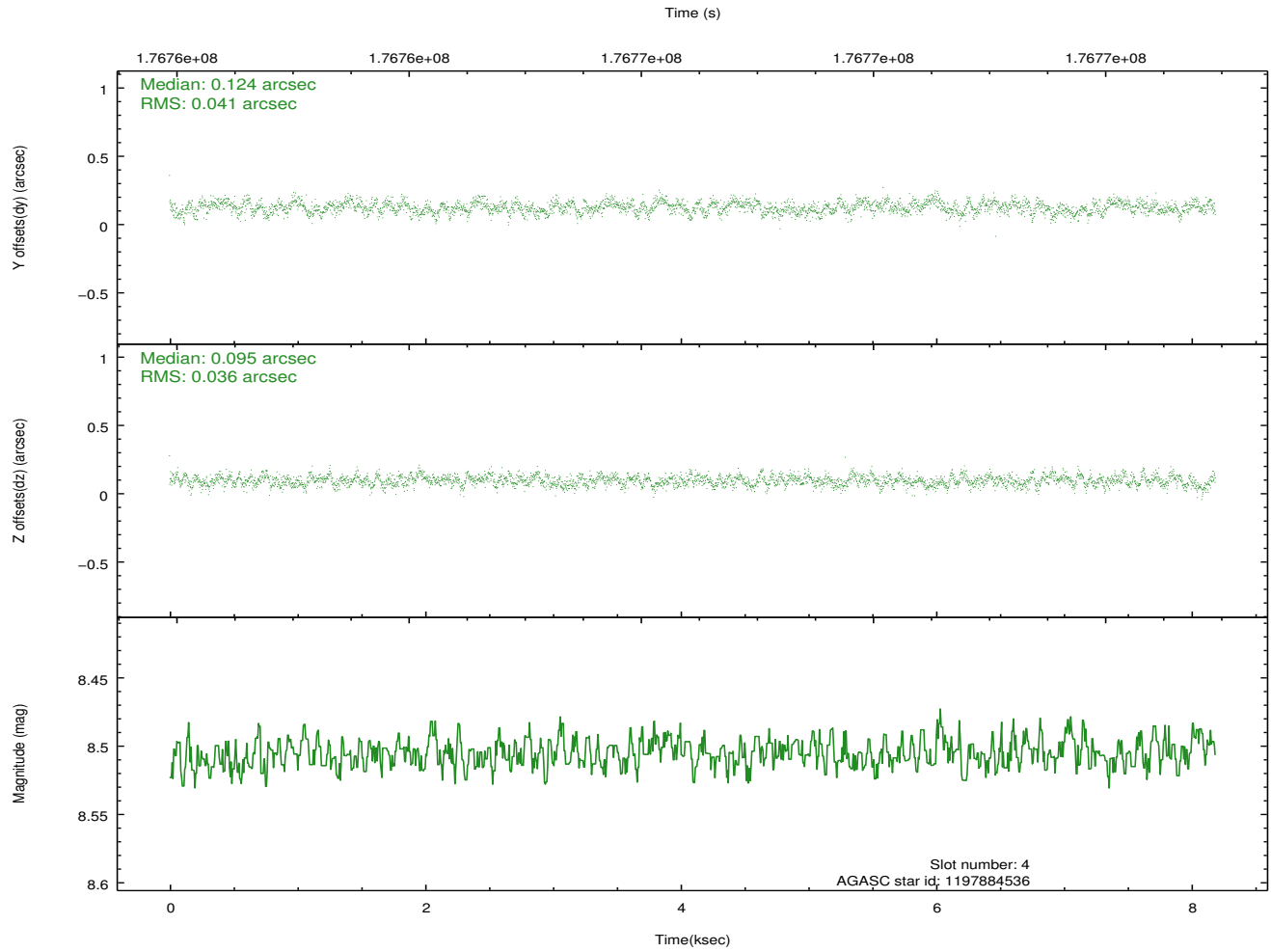
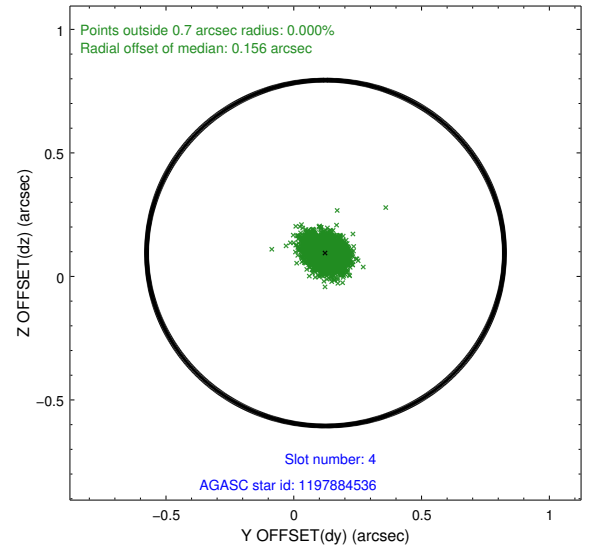
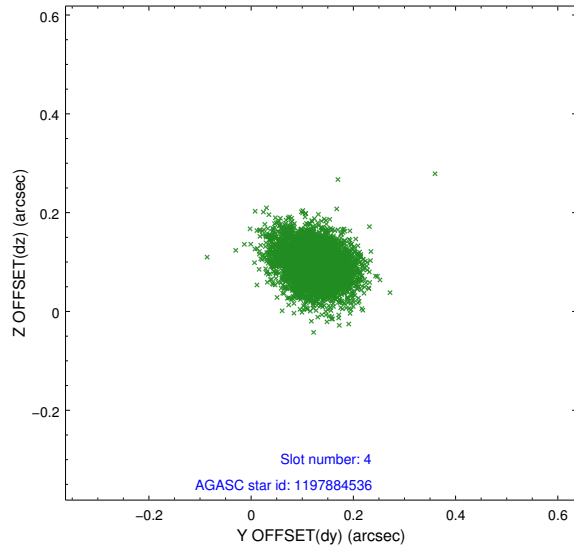
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1998	-0.032	-0.041	0.006	0.011	0.000000	0.000000	-759.22	-1729.78
1	FID	ACIS-S-4	7.20	1998	0.057	0.026	0.005	0.010	0.000000	0.000000	2153.85	178.04
2	FID	ACIS-S-5	7.22	1998	-0.056	0.023	0.006	0.010	0.000000	0.000000	-1811.19	172.52
3	GUIDE	1197750936	7.56	3995	-0.111	-0.021	0.054	0.084	15.387940	-71.549550	1615.82	1461.94
4	GUIDE	1197884536	8.51	3995	0.124	0.095	0.057	0.094	17.160729	-71.835289	1577.05	-790.30
5	GUIDE	1197885104	9.35	3993	-0.024	0.063	0.093	0.153	17.845067	-72.189368	742.65	-2018.91
6	GUIDE	1197885328	7.24	3995	-0.027	-0.189	0.054	0.086	16.283090	-71.733943	1476.88	256.39
7	GUIDE	1198189696	7.35	3994	0.031	0.055	0.061	0.092	15.223750	-72.697522	-2145.88	-257.62

2.4 Star Slots

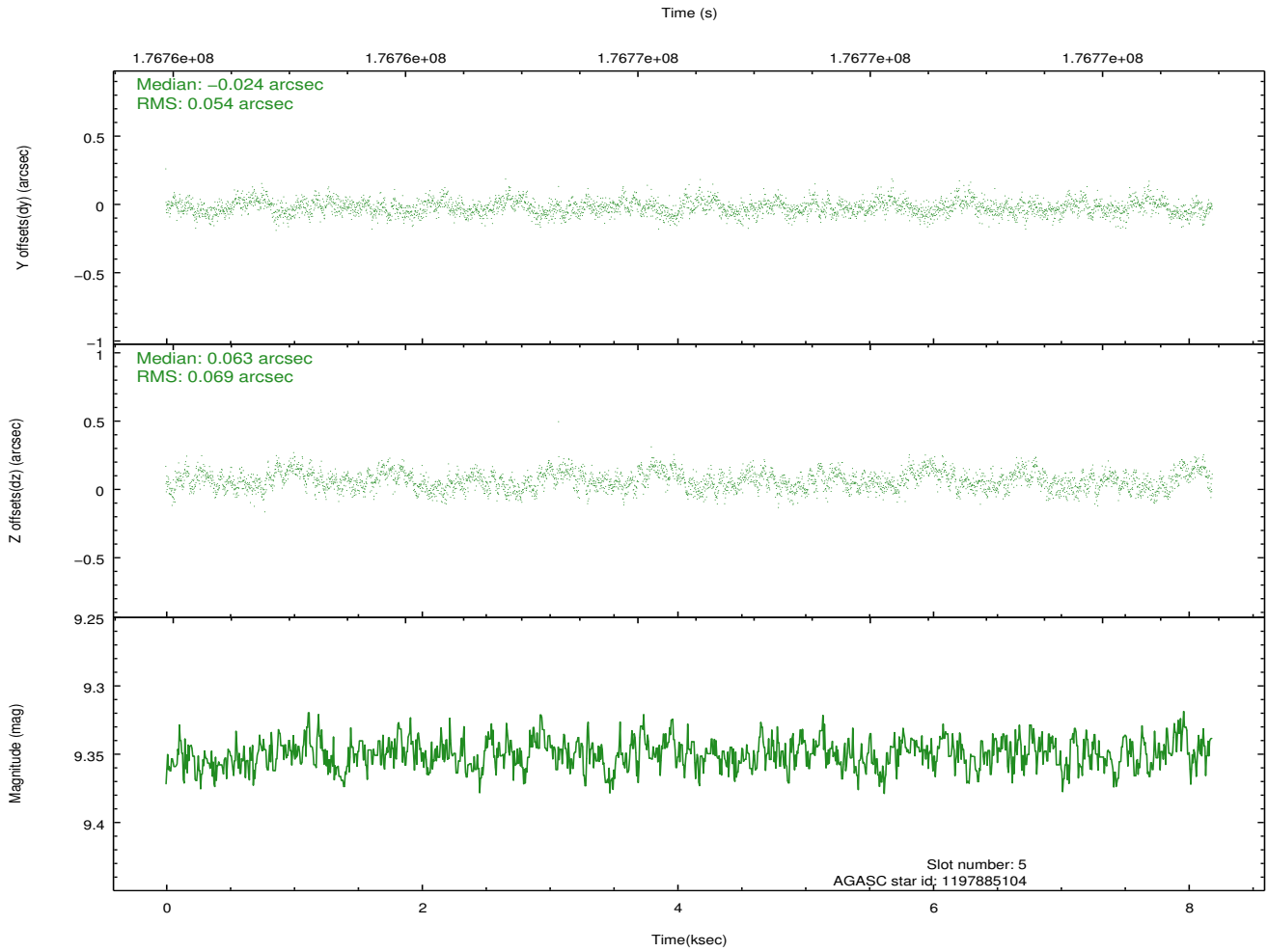
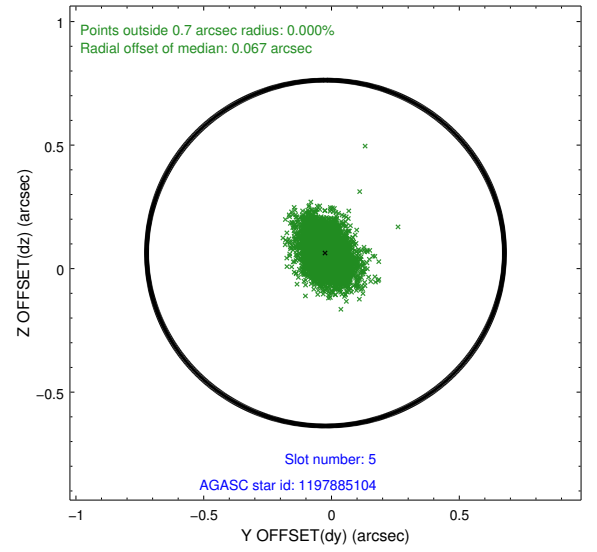
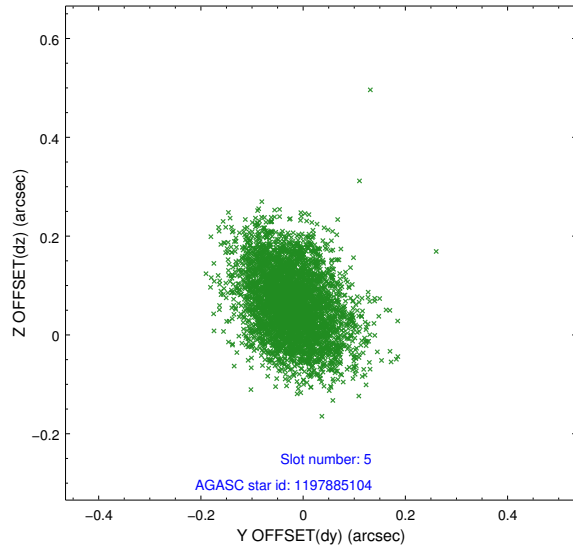
2.4.1 Slot 3



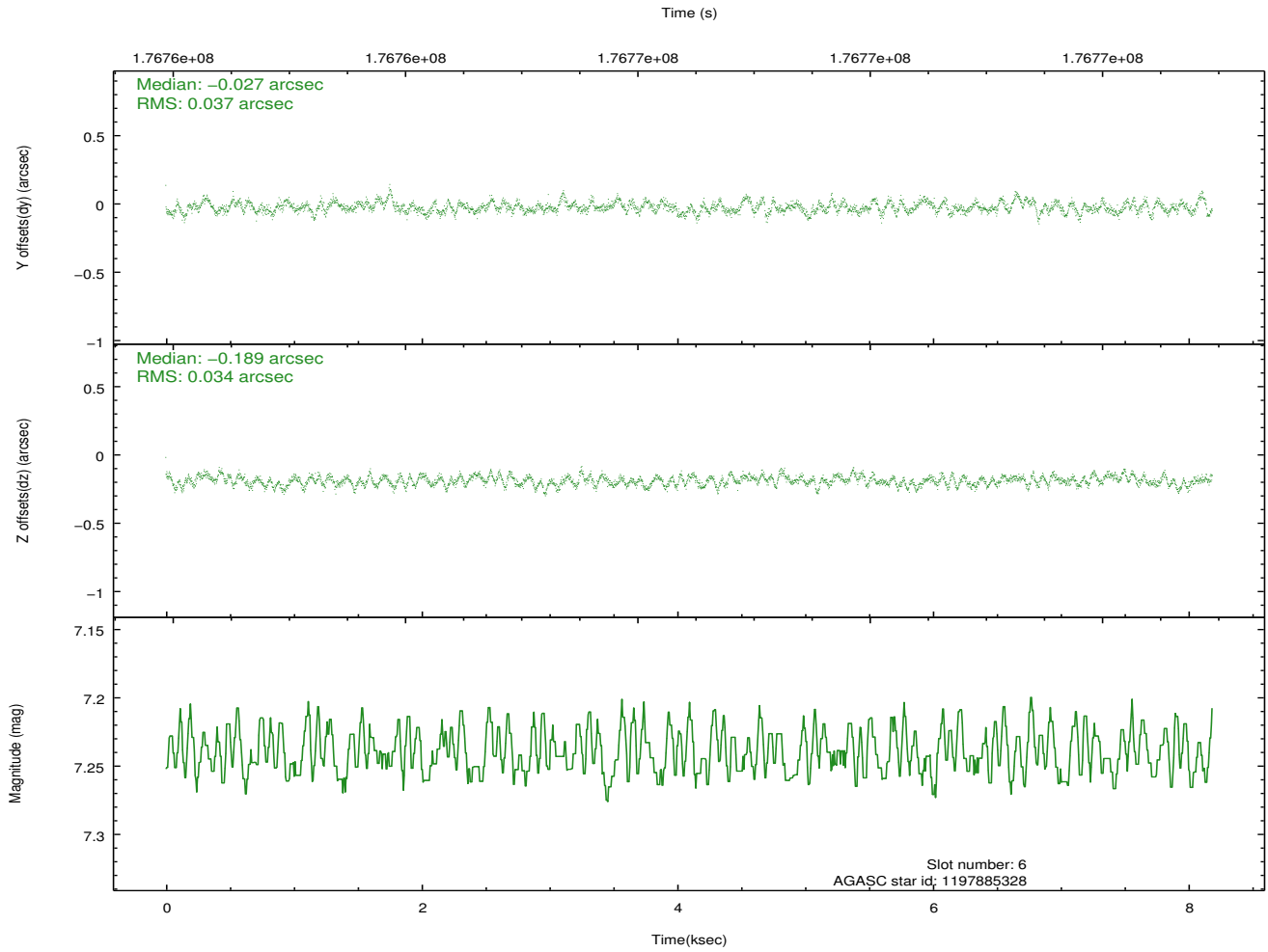
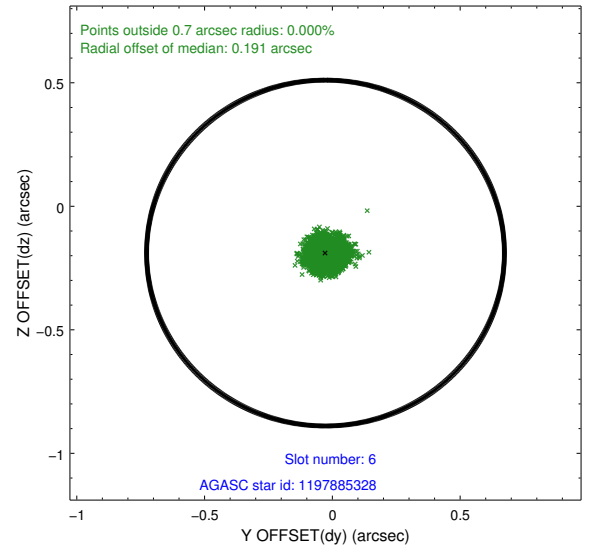
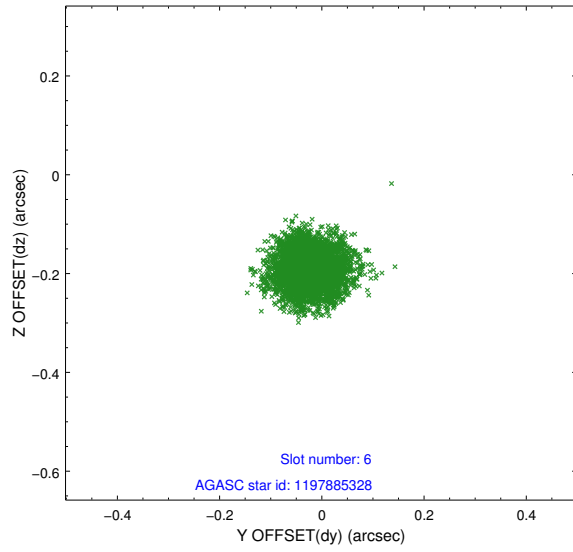
2.4.2 Slot 4



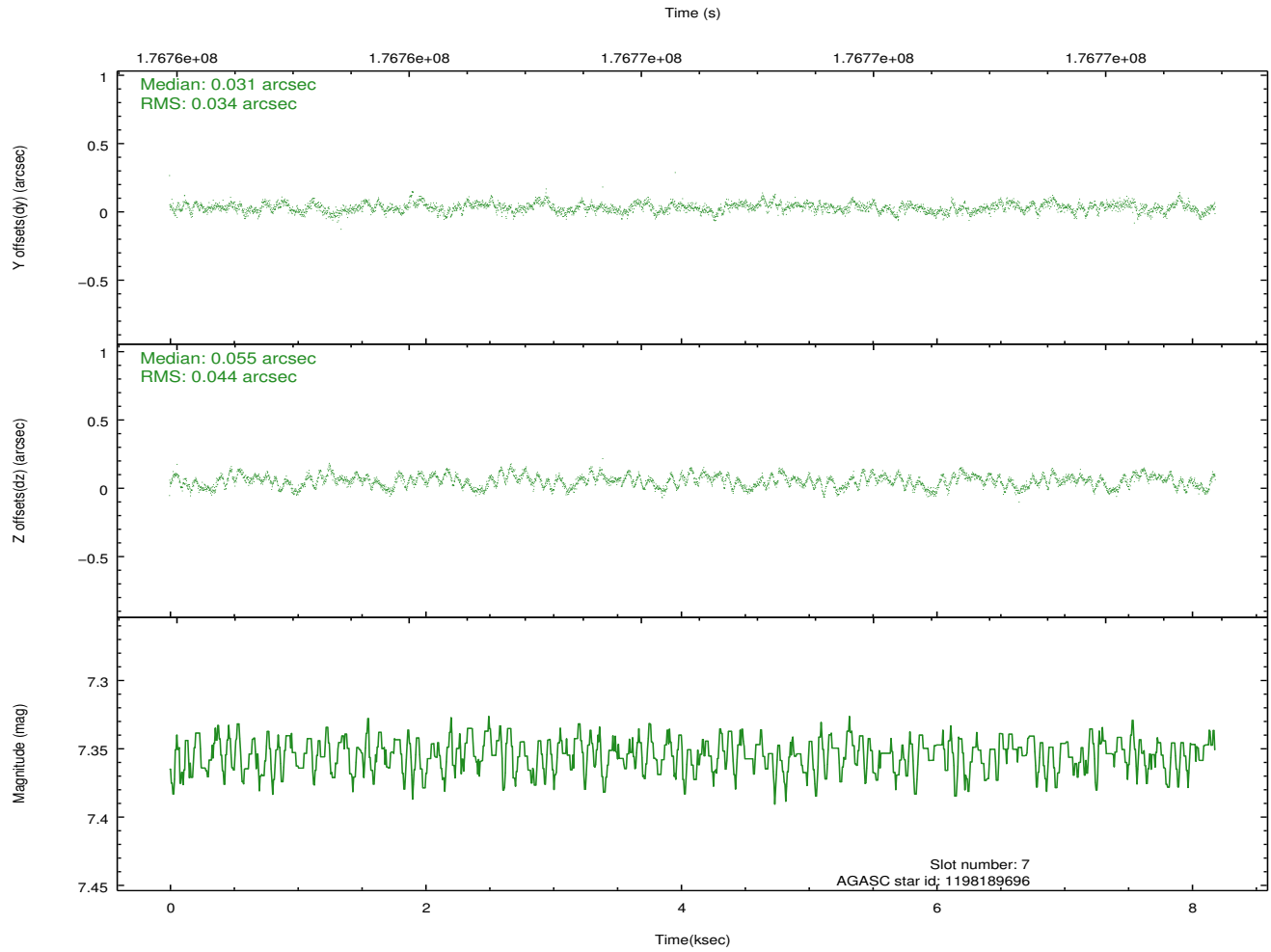
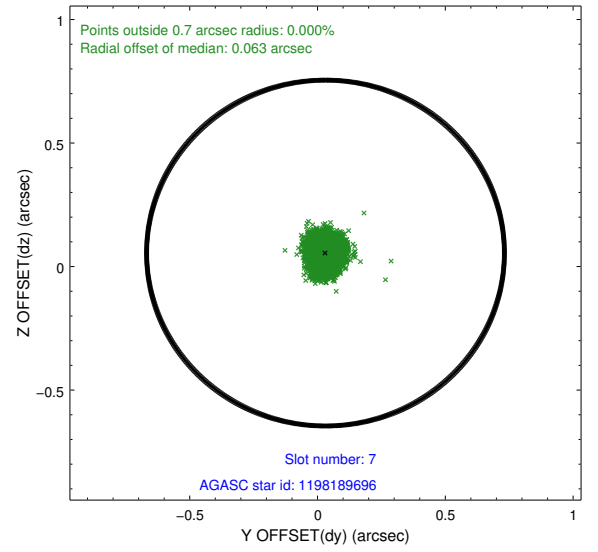
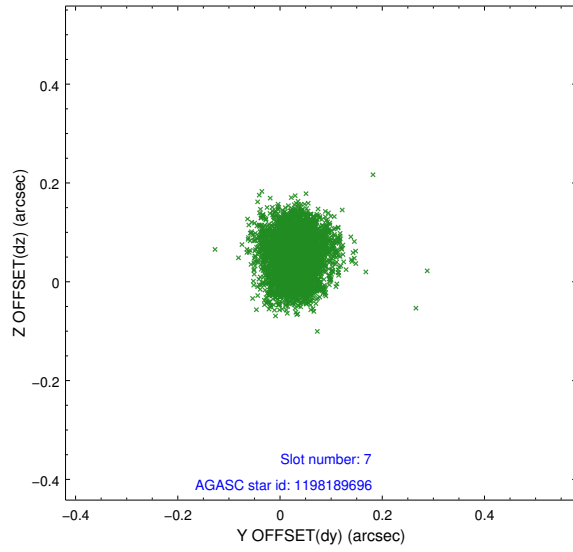
2.4.3 Slot 5



2.4.4 Slot 6

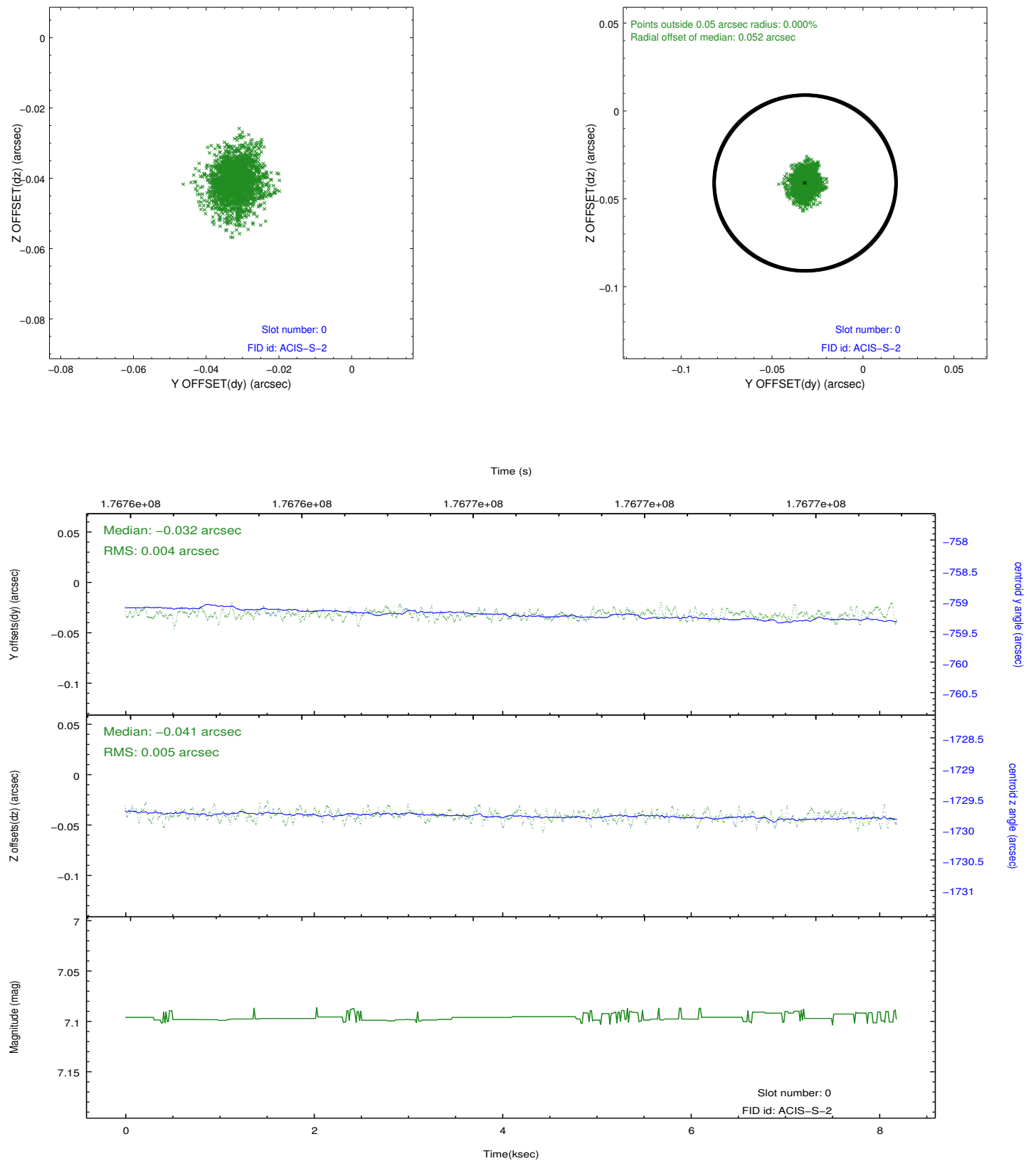


2.4.5 Slot 7

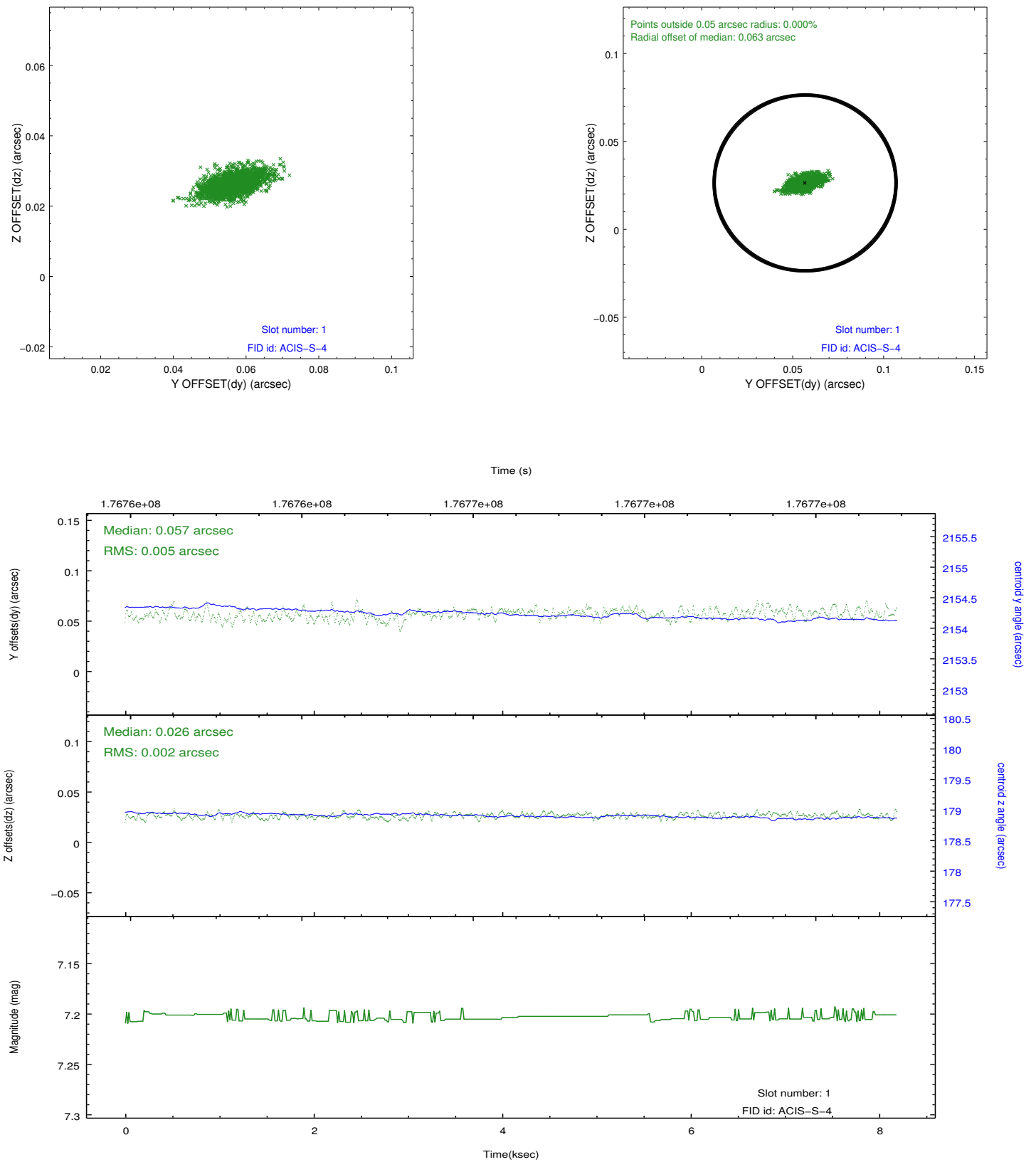


2.5 FID Slots

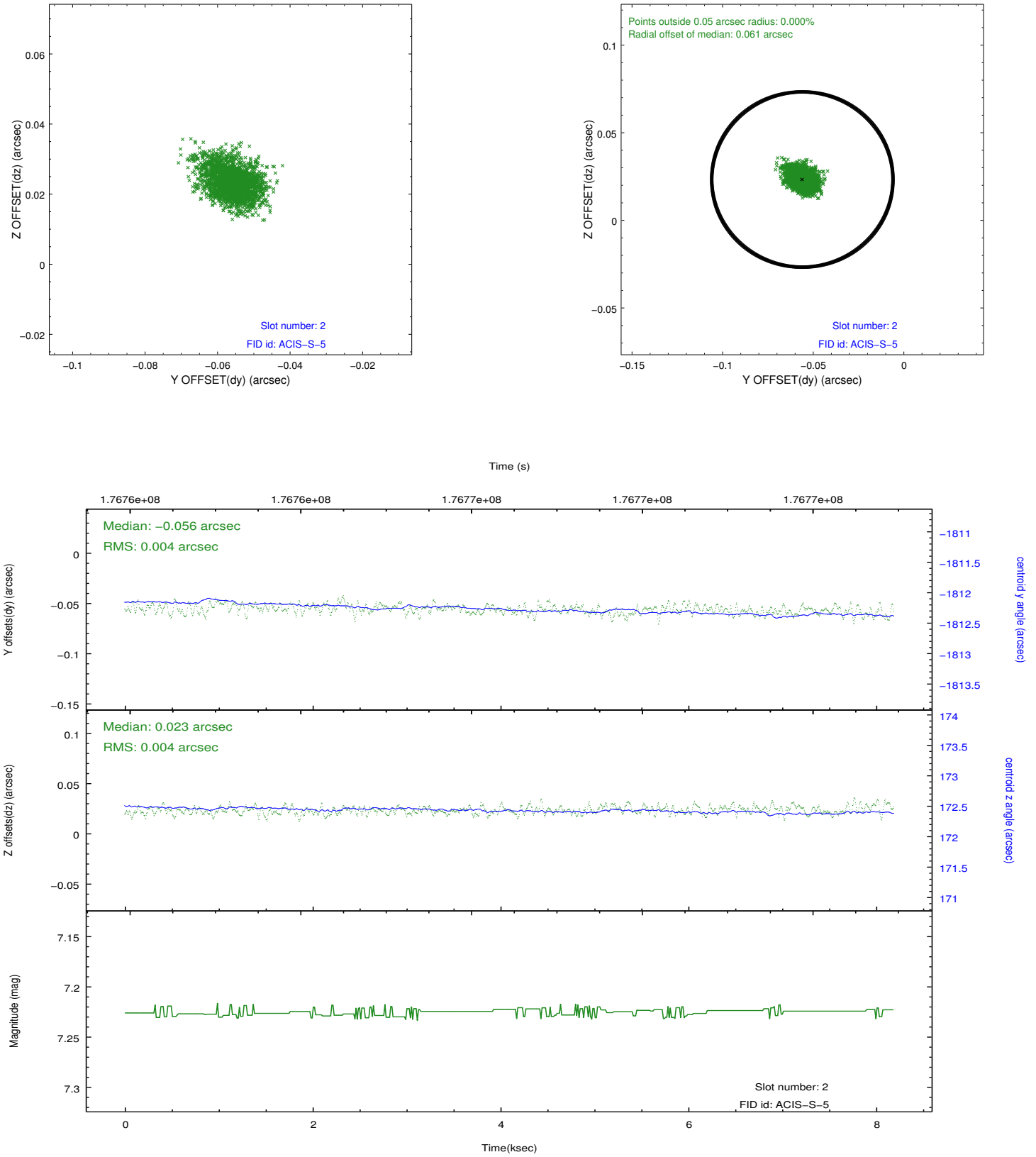
2.5.1 Slot 0



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)	2012.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756

A.2 Comments

Window constraint met.