

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5124 - L2 Version 3
Chandra X-Ray Center

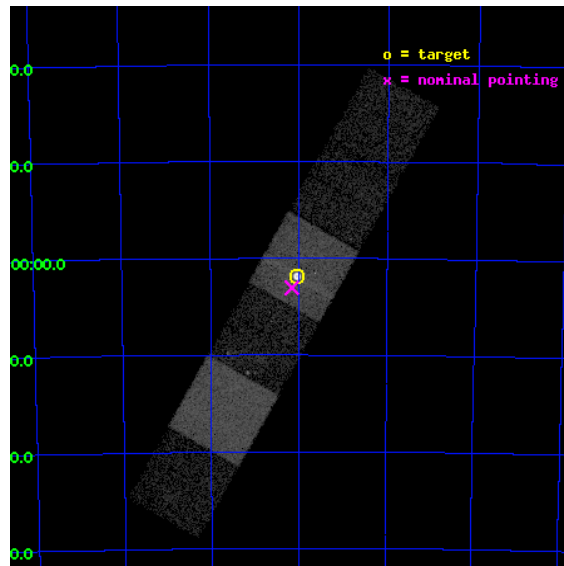
L2 Processing Date : Nov 9 2012

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1 Front

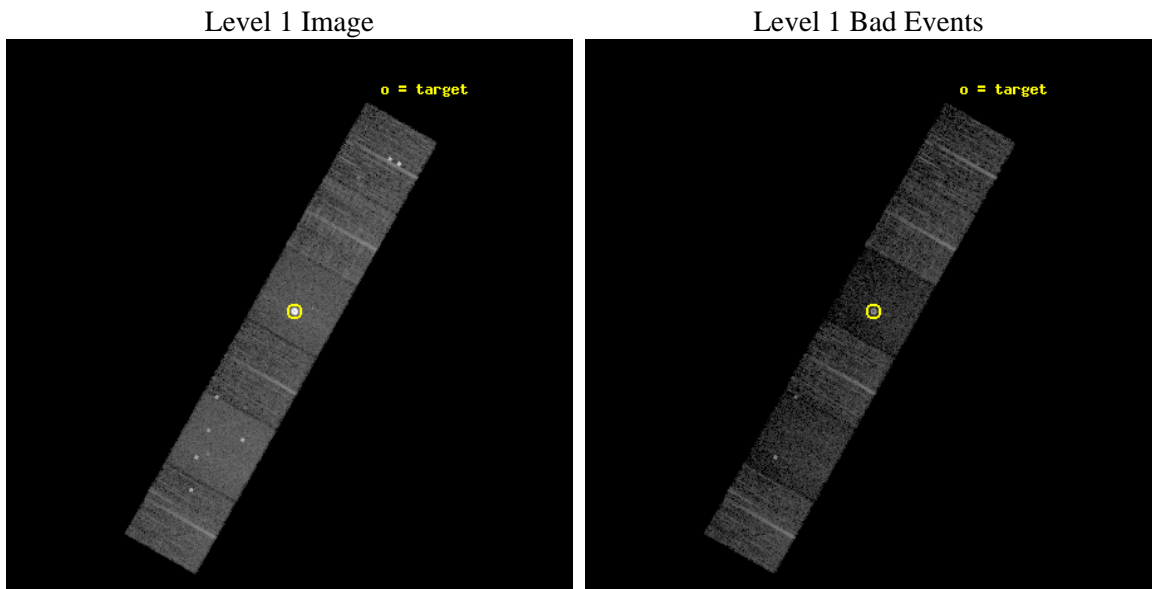
seq_num	590322	Sequence number
obs_id	5124	Observation id
title	AO5A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S3,-120,-1,0,0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.038218374614	Nominal RA [deg]
dec_nom	-72.050941235675	Nominal Dec [deg]
roll_nom	299.48974596028	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8003.1999701858	Sum of GTIs [s]
livetime	7901.8586332148	Livetime [s]
ontime4	8003.1999701858	Sum of GTIs [s]
ontime5	8003.1999701858	Sum of GTIs [s]
ontime6	7999.9590198398	Sum of GTIs [s]
ontime7	8003.1999701858	Sum of GTIs [s]
ontime8	7996.7180296183	Sum of GTIs [s]
ontime9	8003.1999701858	Sum of GTIs [s]
l2events	122311	Number of level 2 events



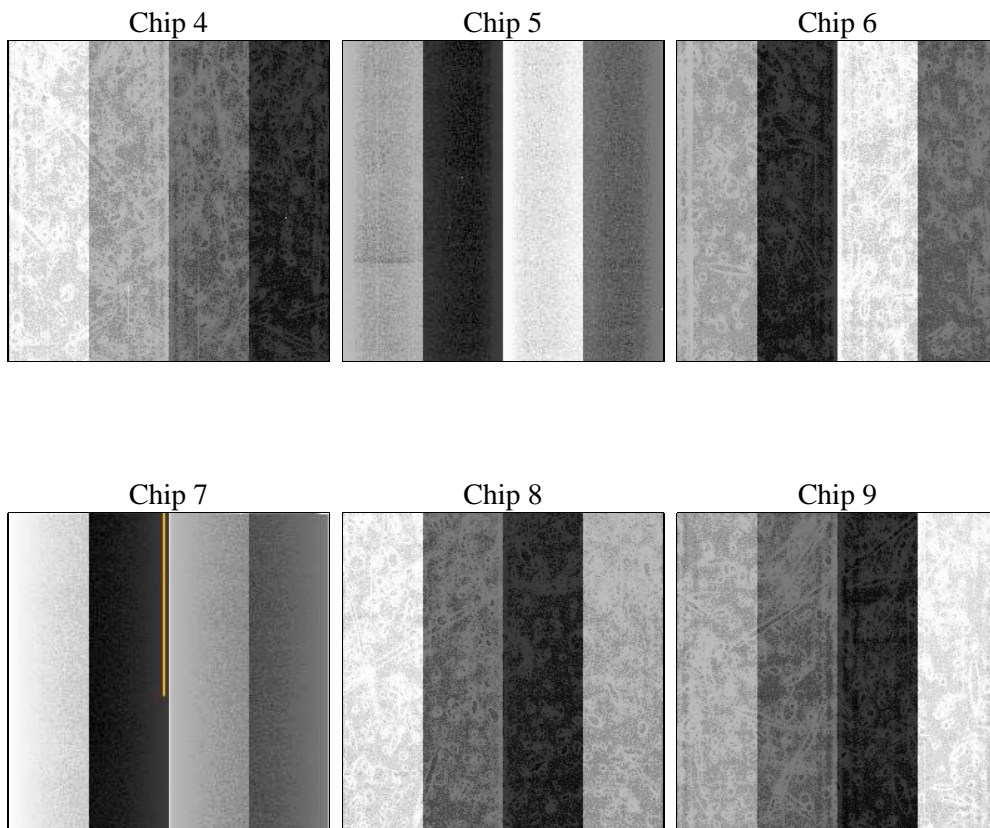
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8250.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8003.1999701858	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	8003.1999701858	Sum of GTIs [s]
date	2012-11-09T07:45:32	Date and time of file creation	ontime5	8003.1999701858	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7999.9590198398	Sum of GTIs [s]
			ontime7	8003.1999701858	Sum of GTIs [s]
			ontime8	7996.7180296183	Sum of GTIs [s]
			ontime9	8003.1999701858	Sum of GTIs [s]
			l1events	325813	Number of level 1 events

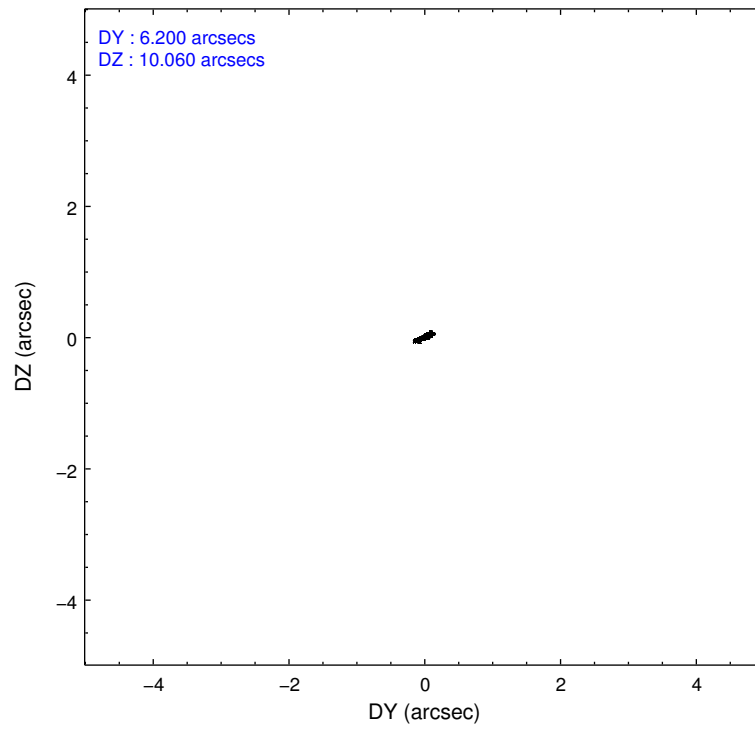
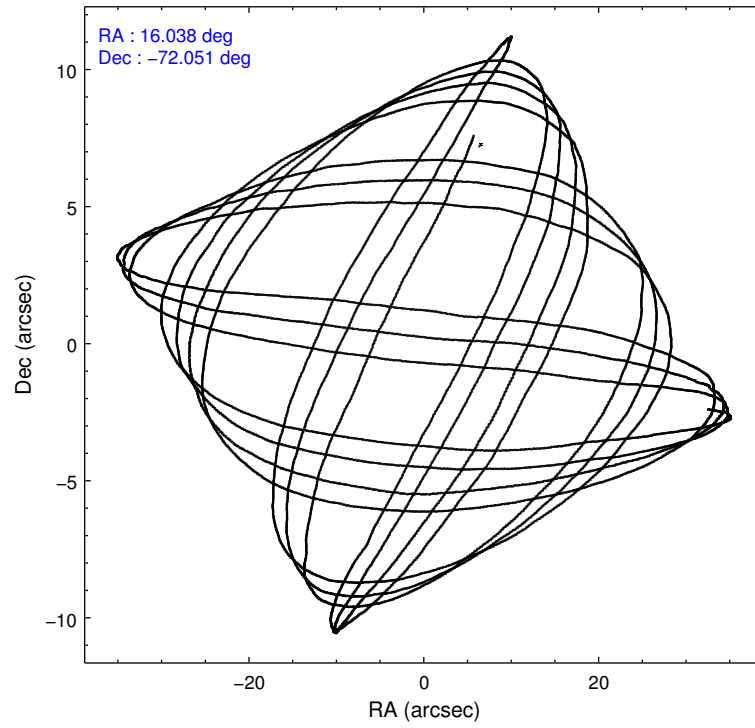
2.1.4 Events

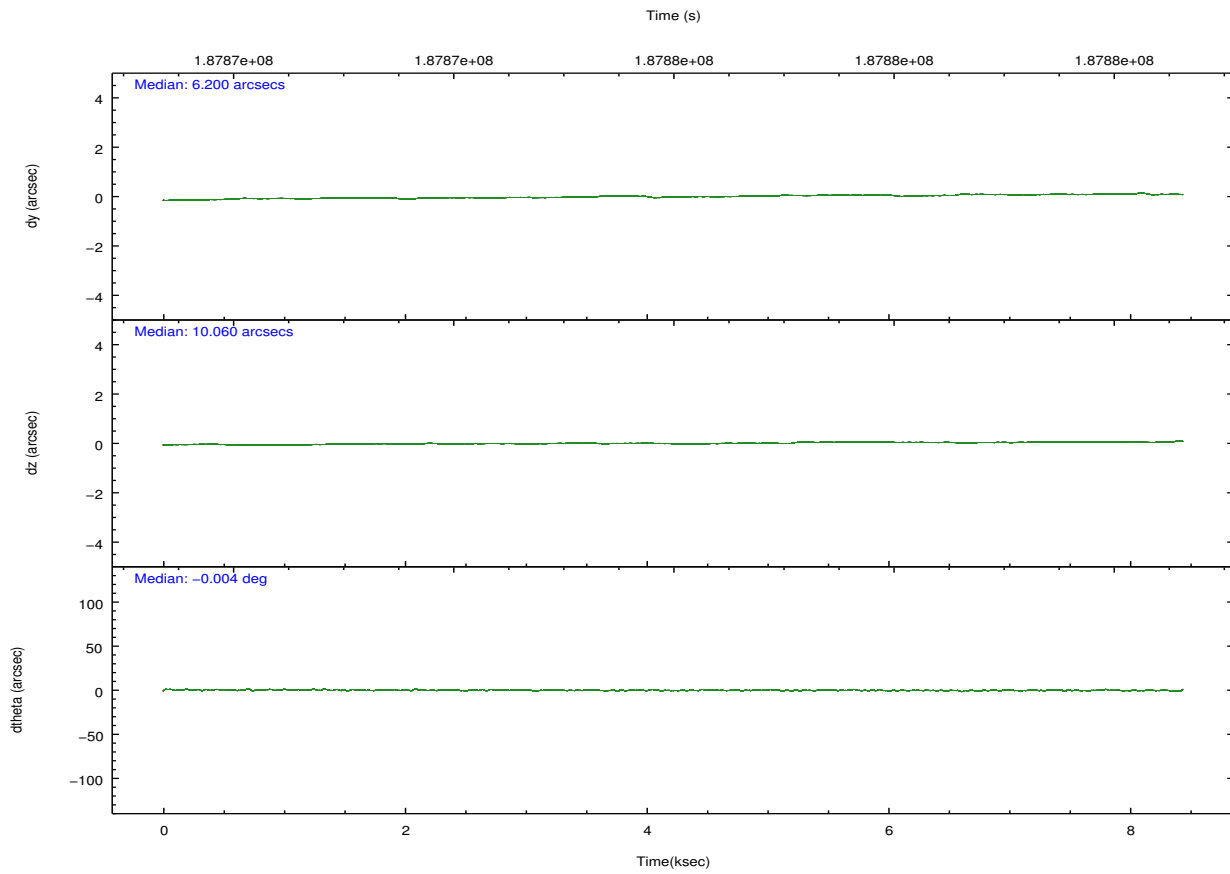
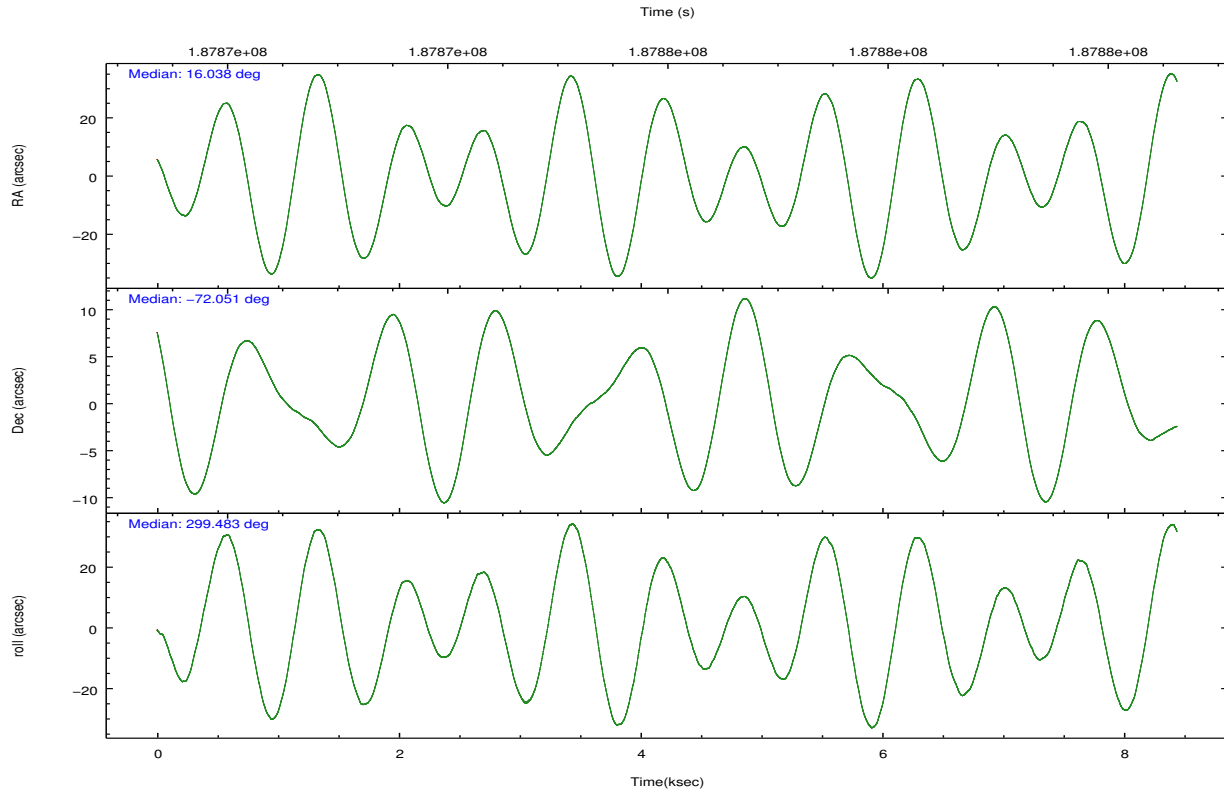
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	43435	54612	37157	98955	48119	43535	grade 0 events	3643	6011	2746	23239	3607	9132
rejected events	37353	22664	31846	19692	37077	31840		8%	11%	7%	23%	7%	20%
rejected %	85%	41%	85%	19%	77%	73%	grade 1 events	48	714	24	423	25	47
								0%	1%	0%	0%	0%	0%
							grade 2 events	965	8621	892	19631	2371	844
								2%	15%	2%	19%	4%	1%
							grade 3 events	461	1572	454	8912	1186	481
								1%	2%	1%	9%	2%	1%
							grade 4 events	411	1568	493	8856	1092	458
								0%	2%	1%	8%	2%	1%
							grade 5 events	1287	4005	1347	4891	1896	1398
								2%	7%	3%	4%	3%	3%
							grade 6 events	608	14204	733	18694	2810	789
								1%	26%	1%	18%	5%	1%
							grade 7 events	36012	17917	30468	14309	35132	30386
								82%	32%	81%	14%	73%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	15.961463	16.03821837461409	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.037352	-72.05094123567481	Alternating exposures requested	N	N
[deg] Pointing Roll	299.260103	299.4897459602762	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	181353664.184000	181353664.184000			
[s] Window stop time (MET)	189216064.184000	189216064.184000			
[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)	187871958.184000	187871582.63575			
Observation start date	2003-12-15T10:38:14	2003-12-15T10:33:02			
[s] Observation end time (MET)	187880208.184000	187880342.28613			
Observation end date	2003-12-15T12:55:44	2003-12-15T12:59:02			
Read mode	TIMED	TIMED			

2.3 Aspect



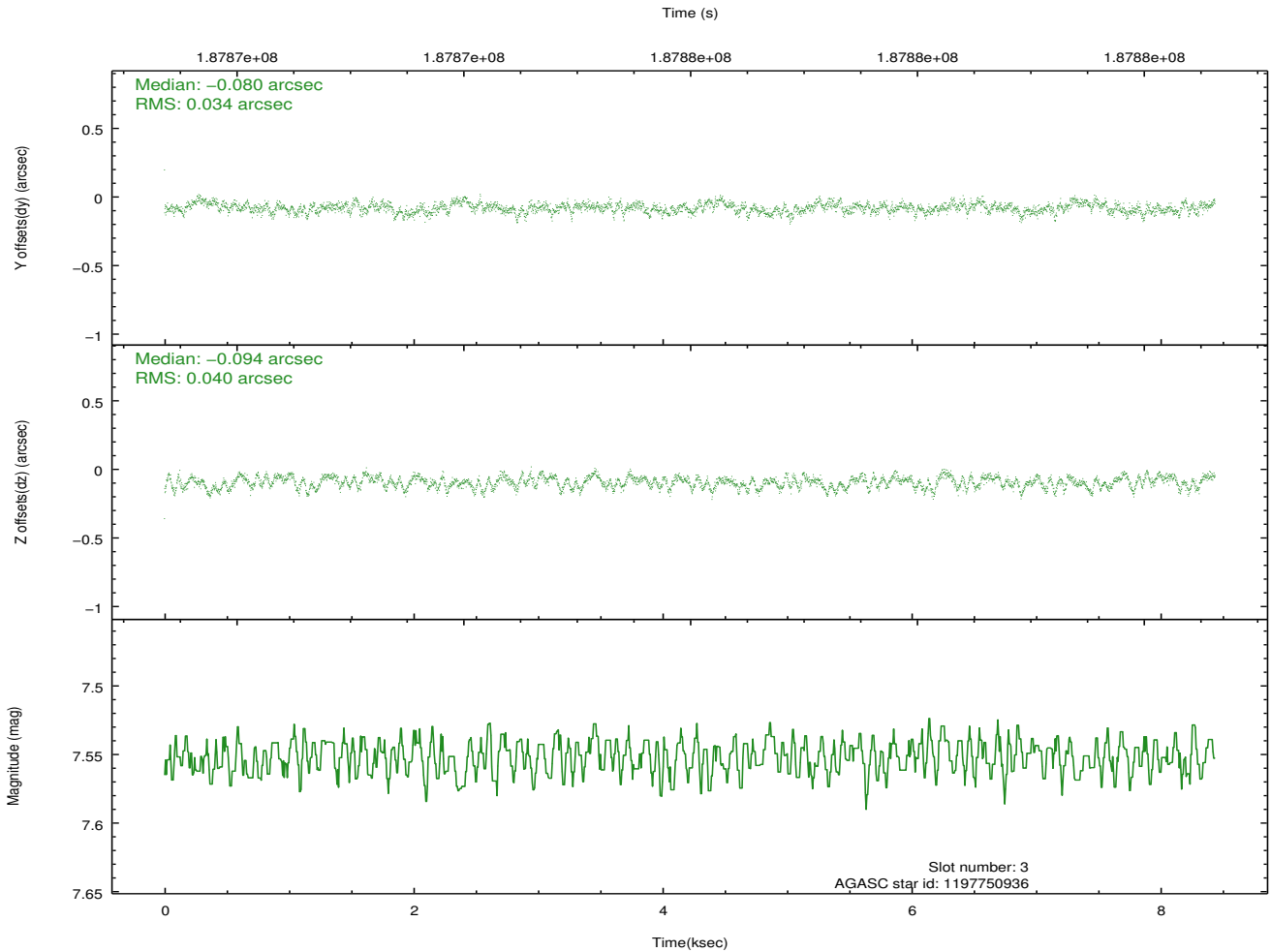
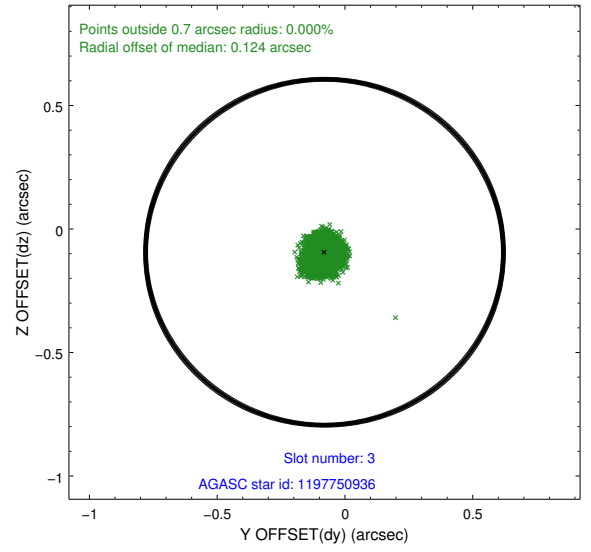
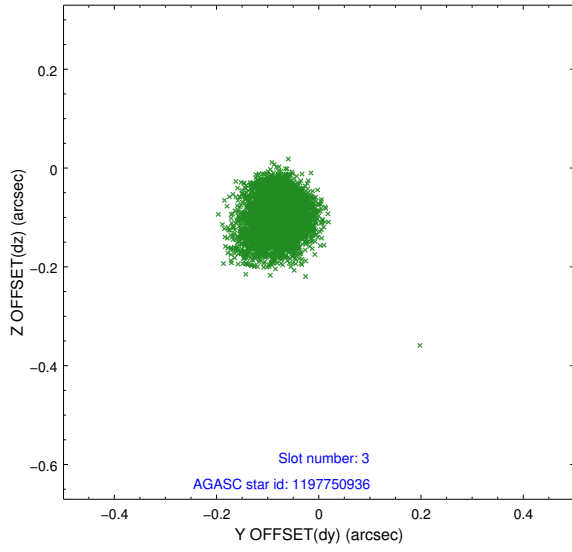


Slot Statistics

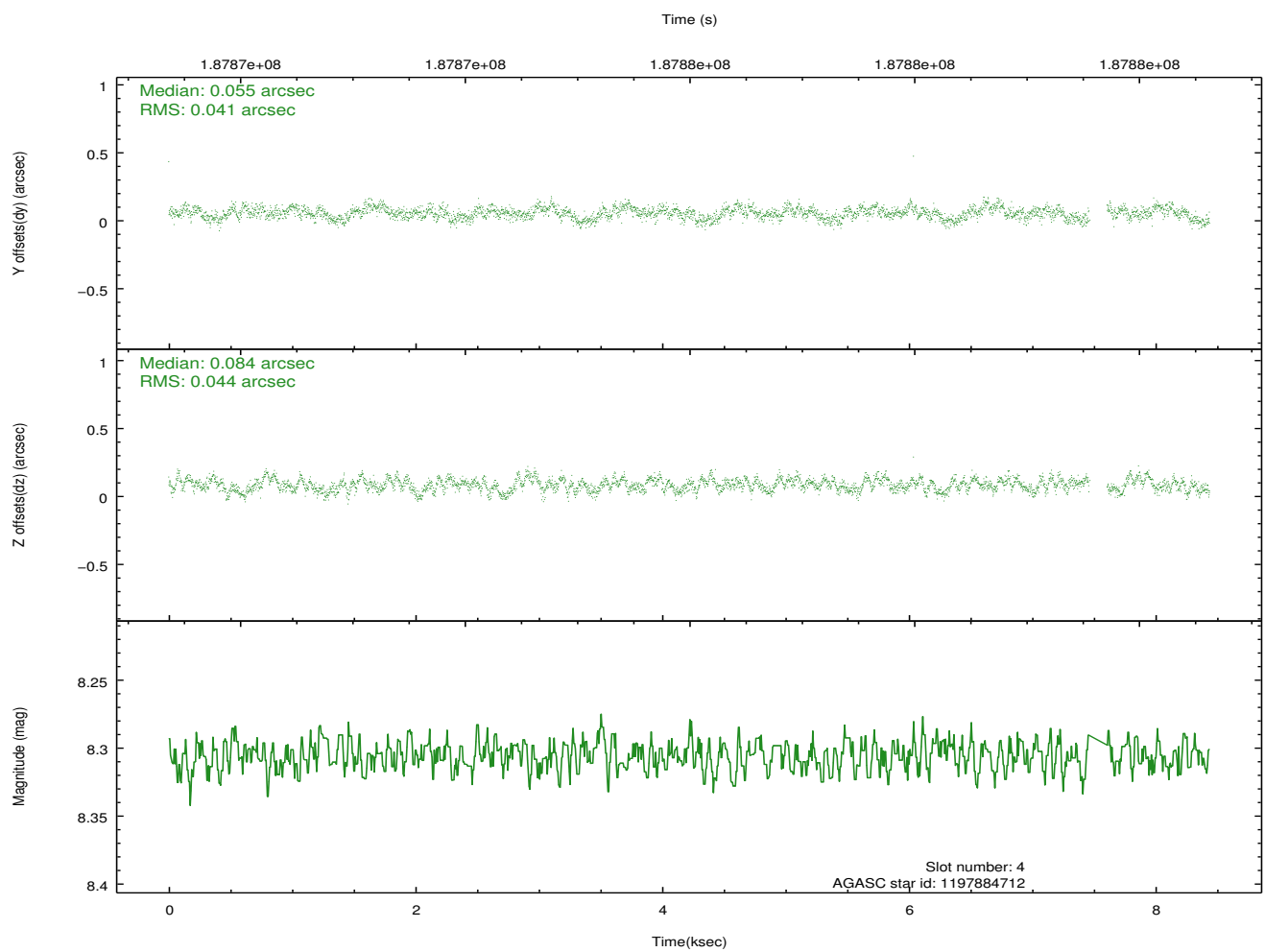
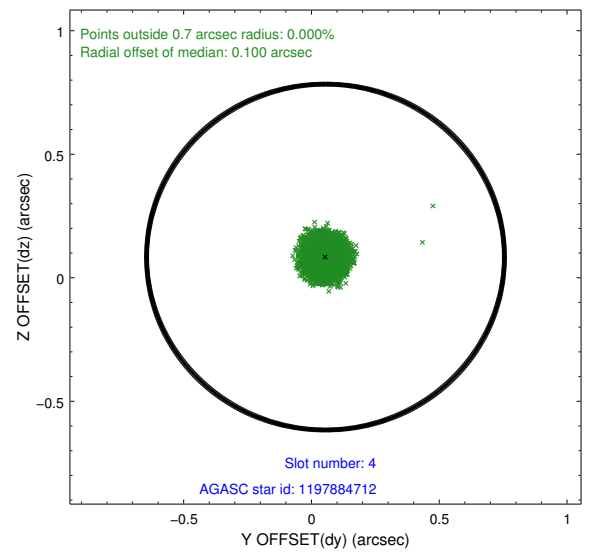
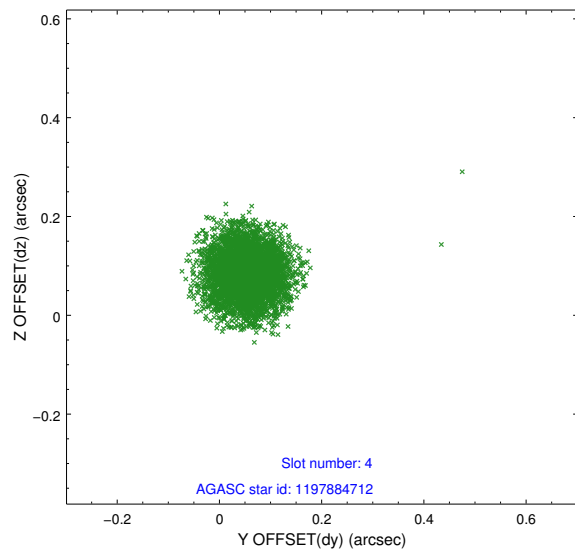
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2059	-0.064	-0.045	0.005	0.010	0.000000	0.000000	-758.98	-1731.36
1	FID	ACIS-S-4	7.20	2059	0.048	0.034	0.006	0.010	0.000000	0.000000	2154.10	176.53
2	FID	ACIS-S-6	7.35	2059	-0.012	0.018	0.007	0.011	0.000000	0.000000	403.89	814.65
3	GUIDE	1197750936	7.55	4117	-0.080	-0.094	0.056	0.088	15.387940	-71.549550	-1848.57	286.55
4	GUIDE	1197884712	8.31	4042	0.055	0.084	0.064	0.101	16.087398	-72.252690	743.75	-258.03
5	GUIDE	1197885104	9.35	4115	0.149	-0.001	0.086	0.140	17.845067	-72.189368	1519.75	1525.82
6	GUIDE	1197885328	7.24	4117	-0.035	-0.026	0.048	0.075	16.283090	-71.733943	-774.34	850.85
7	GUIDE	1198189696	7.38	4115	-0.085	0.042	0.051	0.084	15.223750	-72.697522	1691.65	-1852.53

2.4 Star Slots

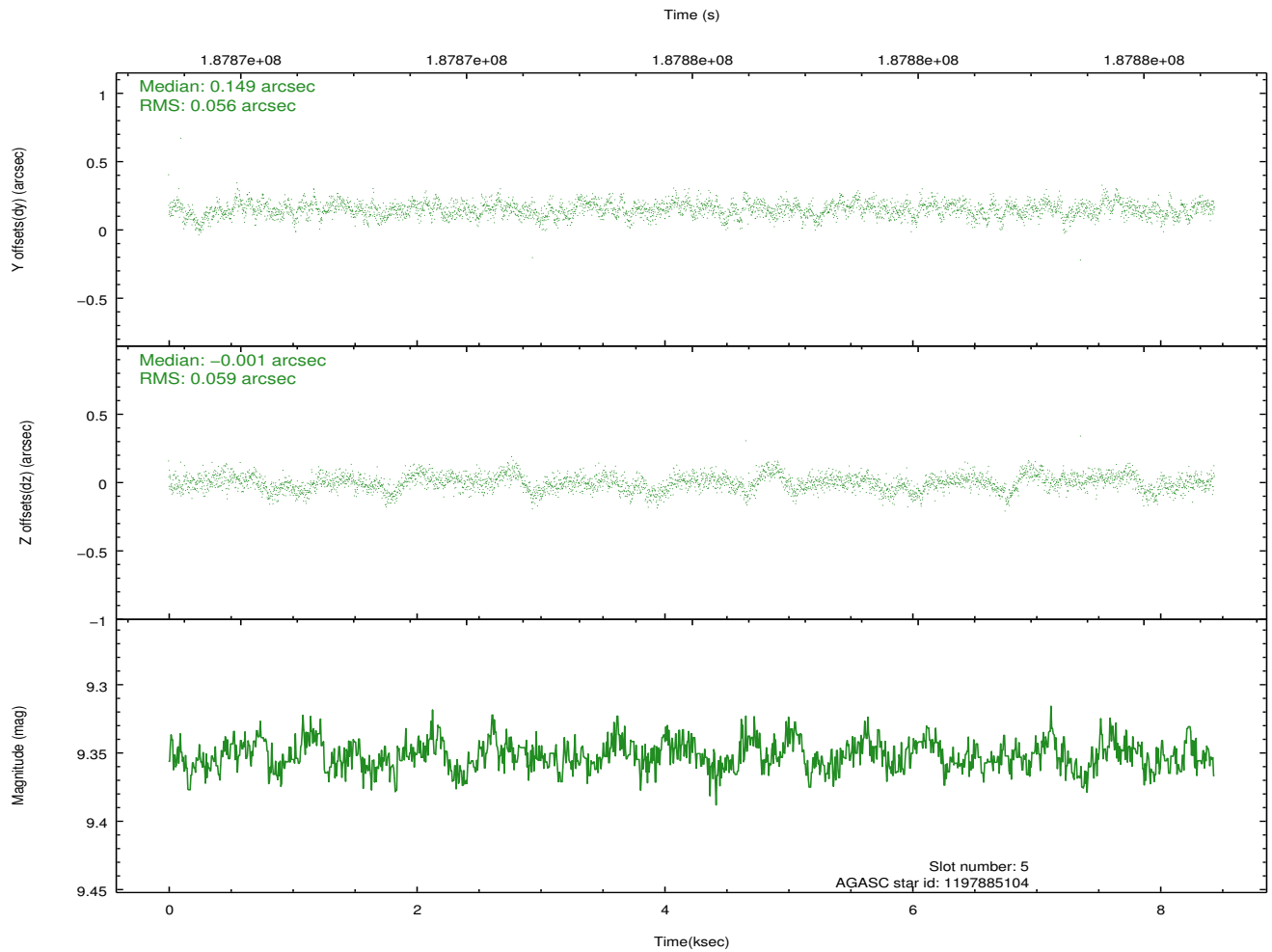
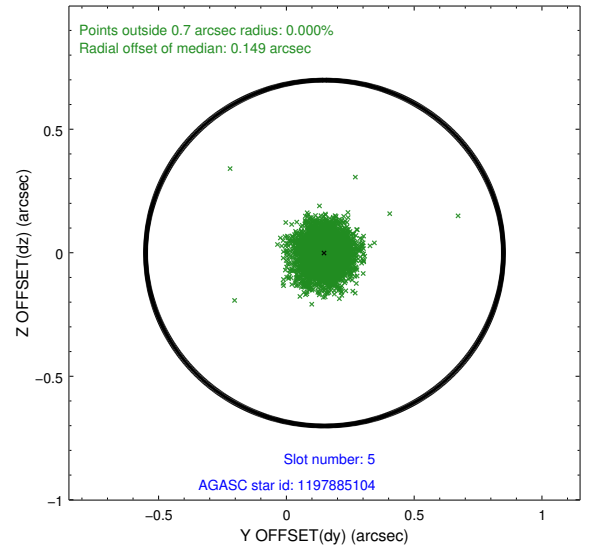
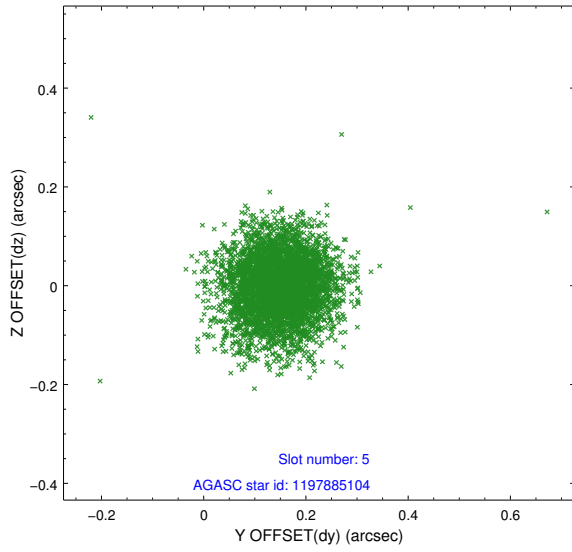
2.4.1 Slot 3



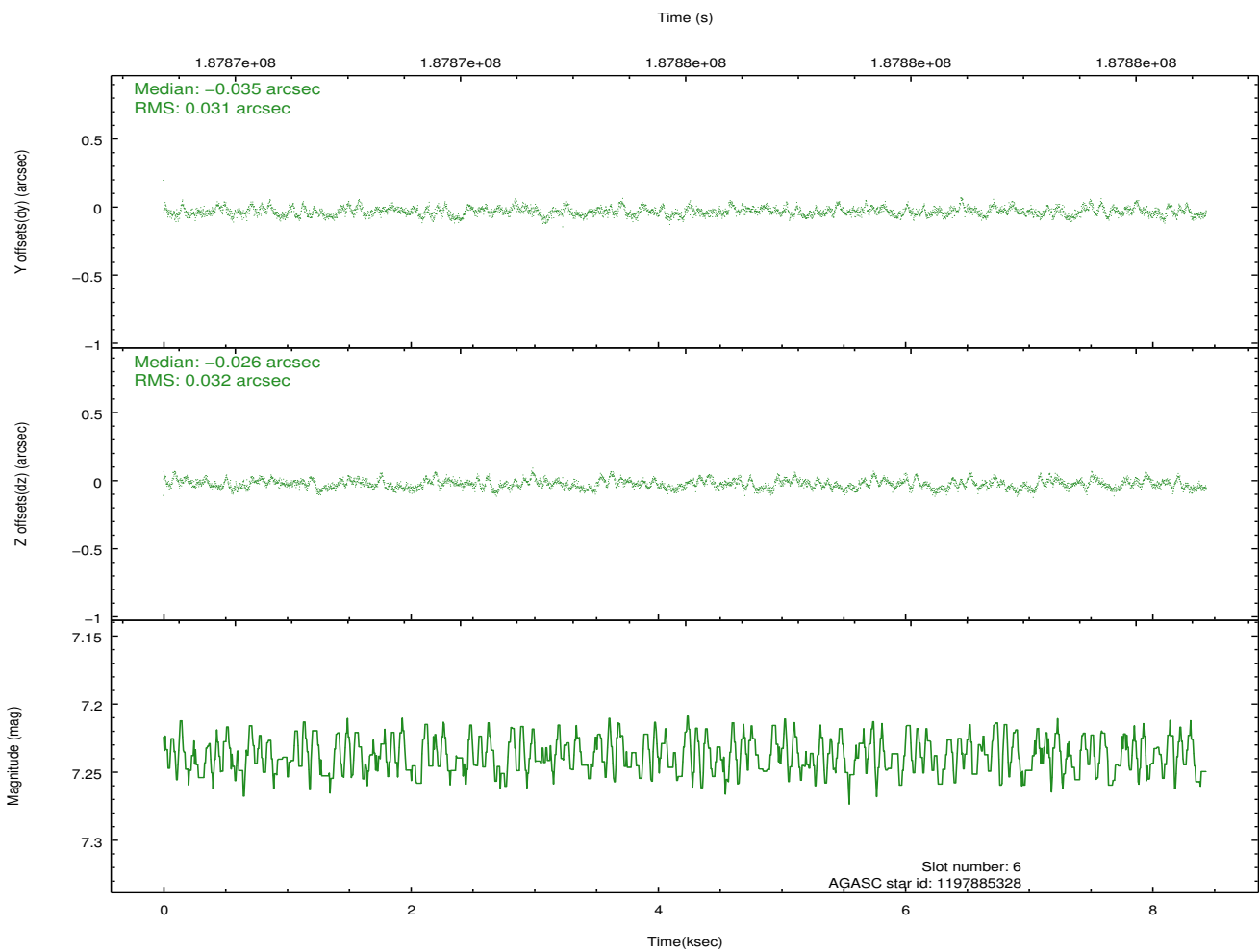
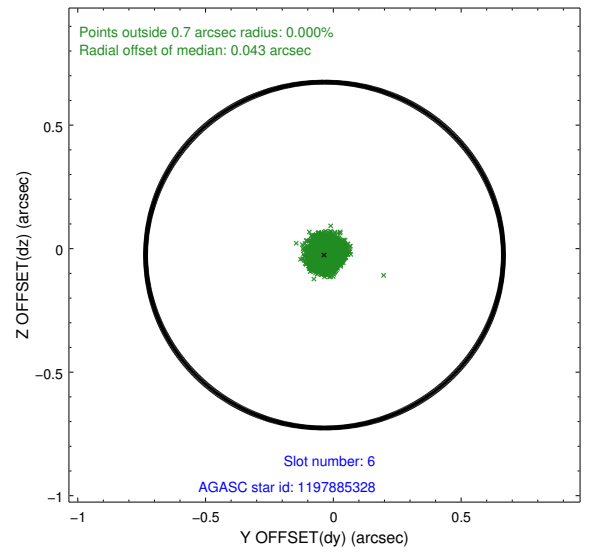
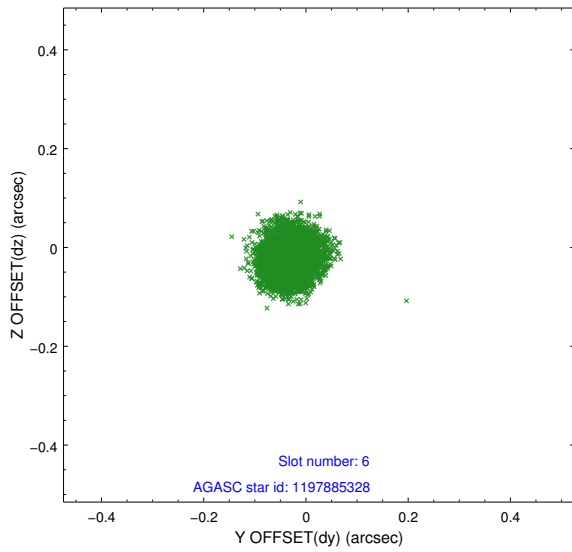
2.4.2 Slot 4



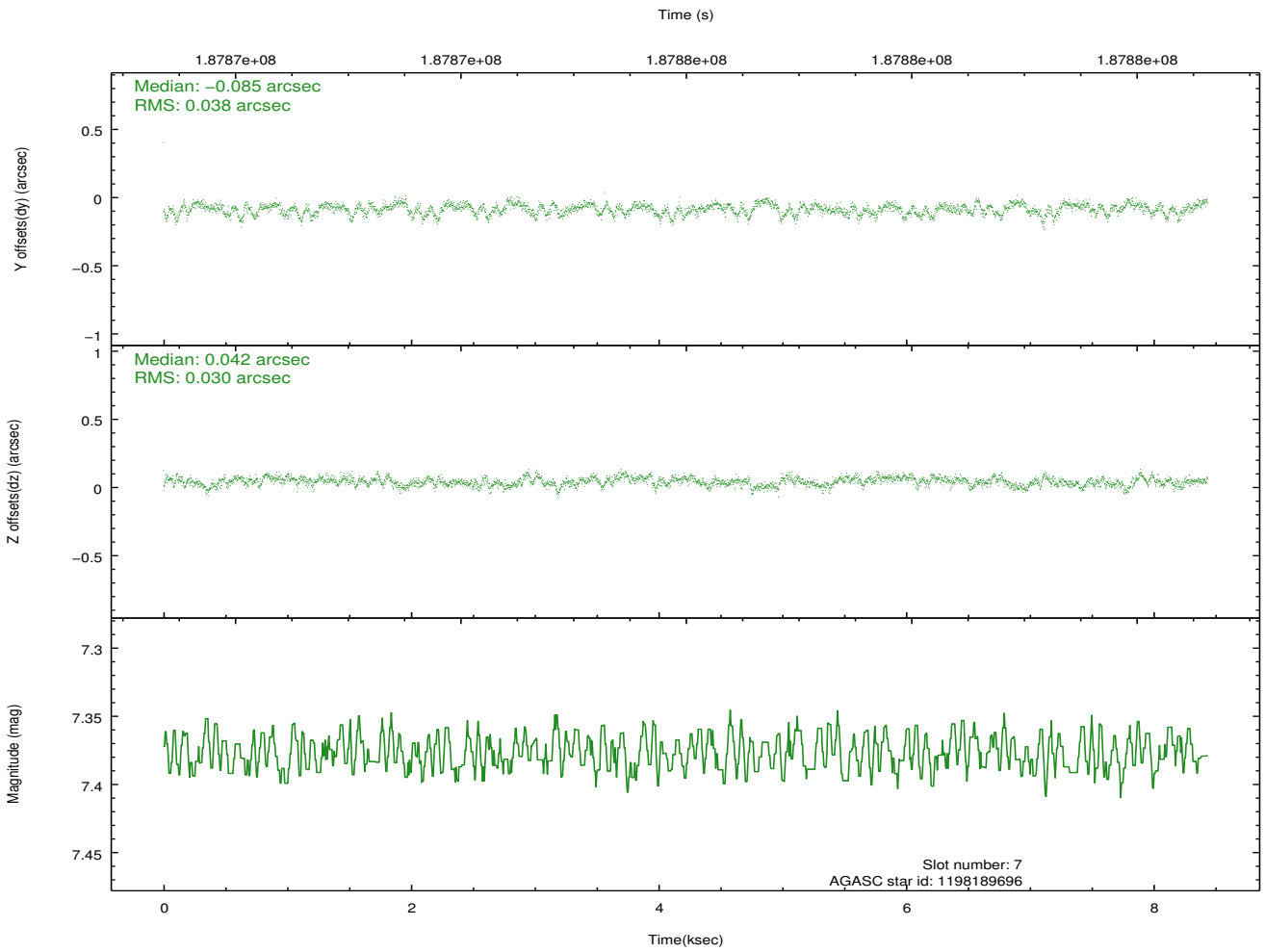
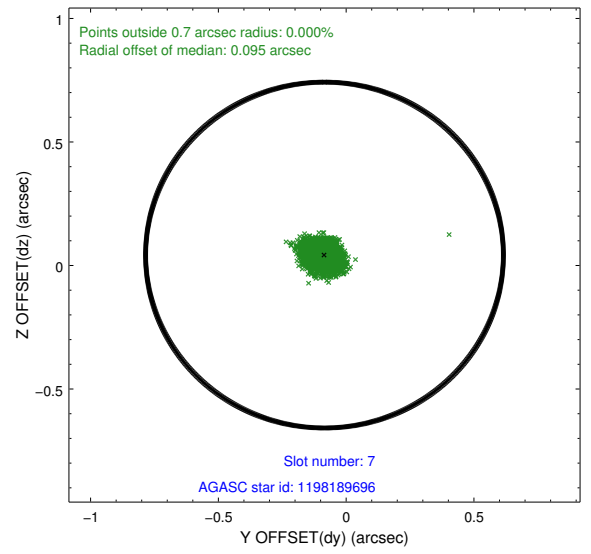
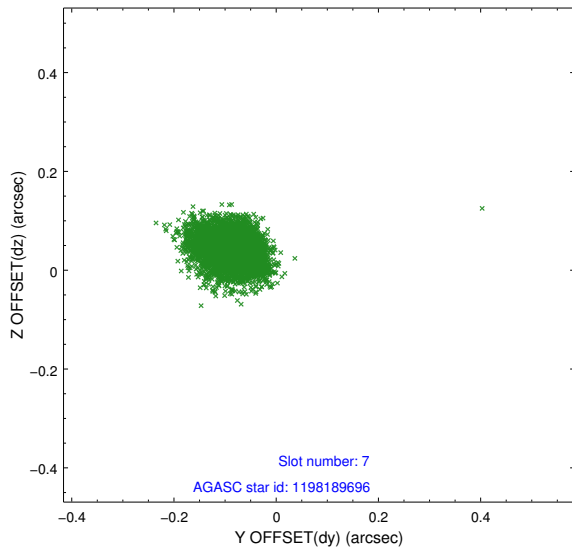
2.4.3 Slot 5



2.4.4 Slot 6

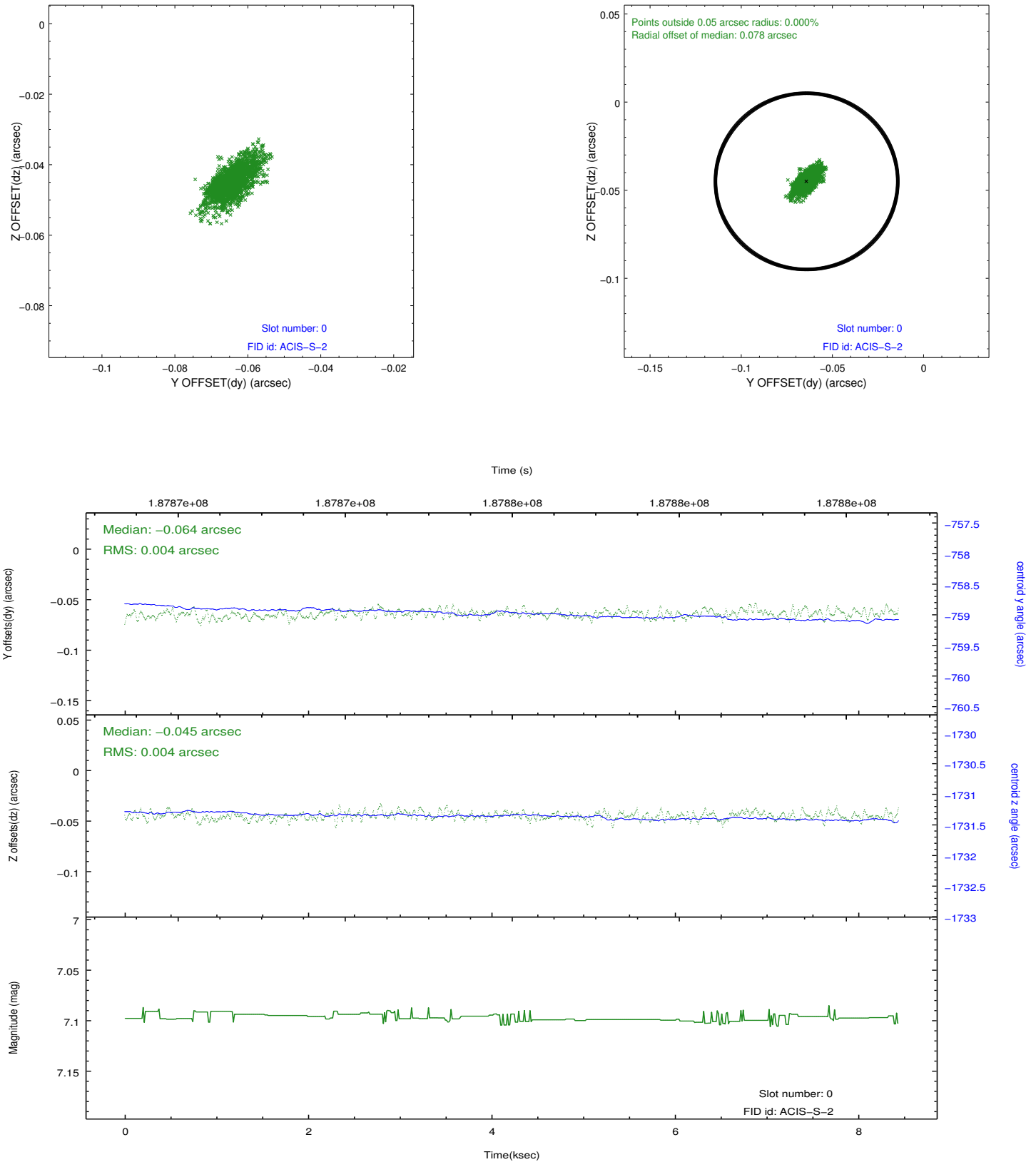


2.4.5 Slot 7

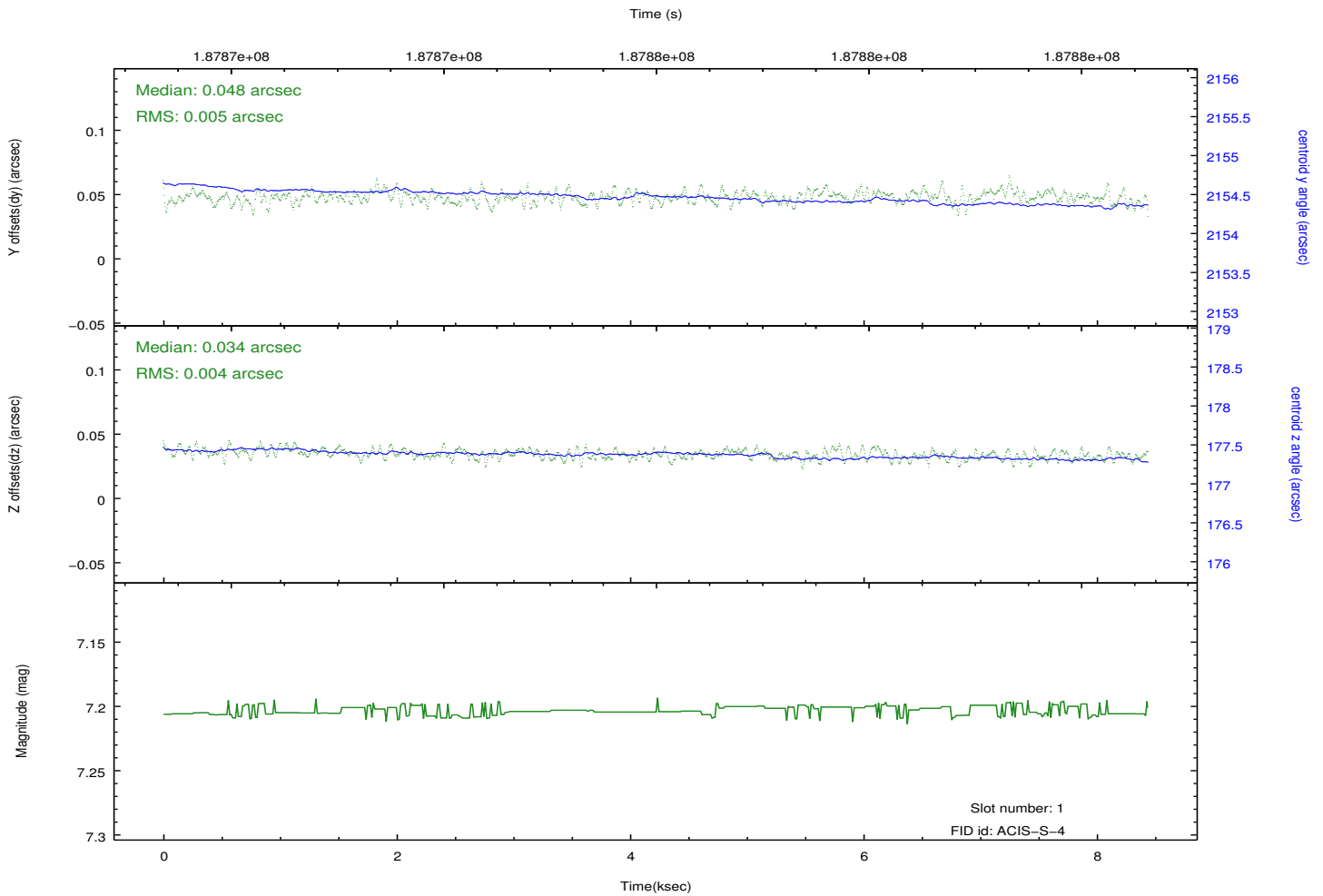
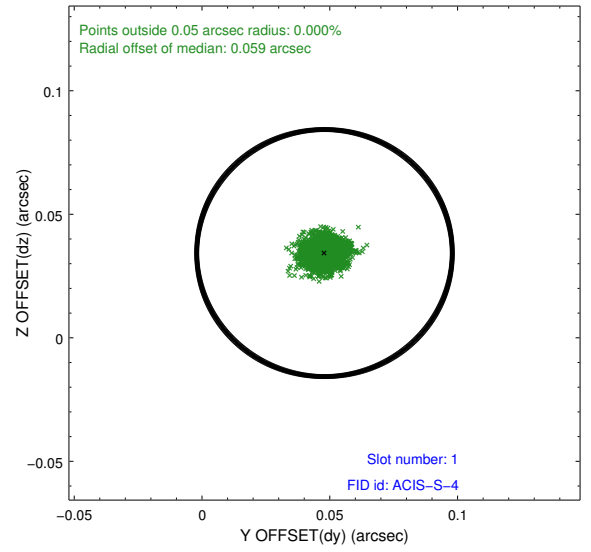
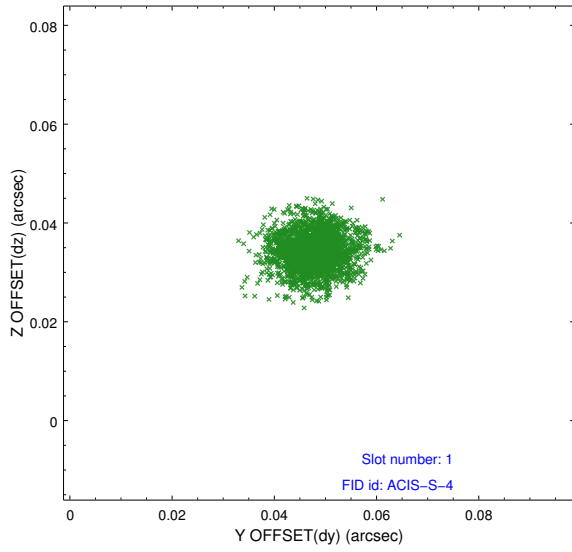


2.5 FID Slots

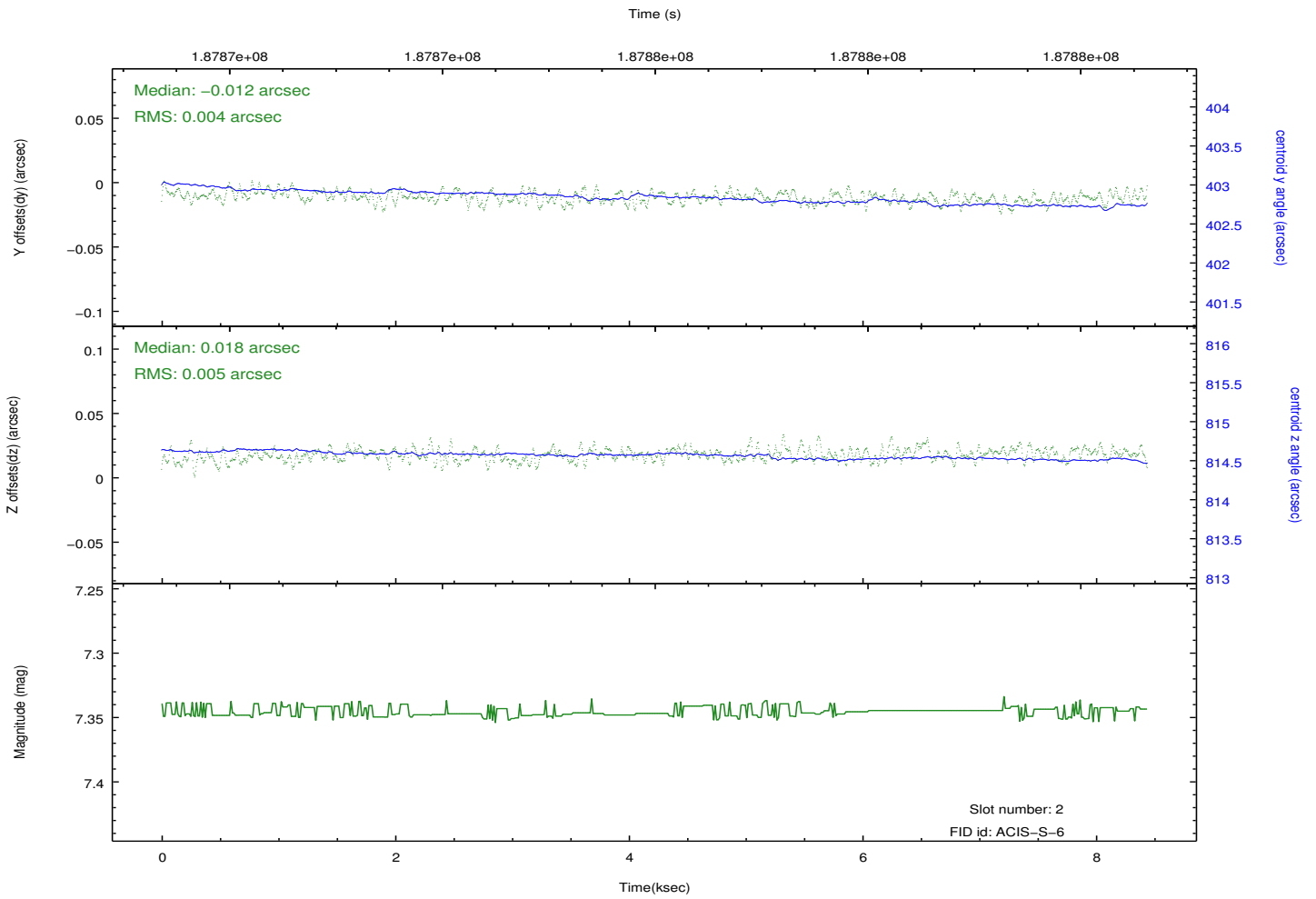
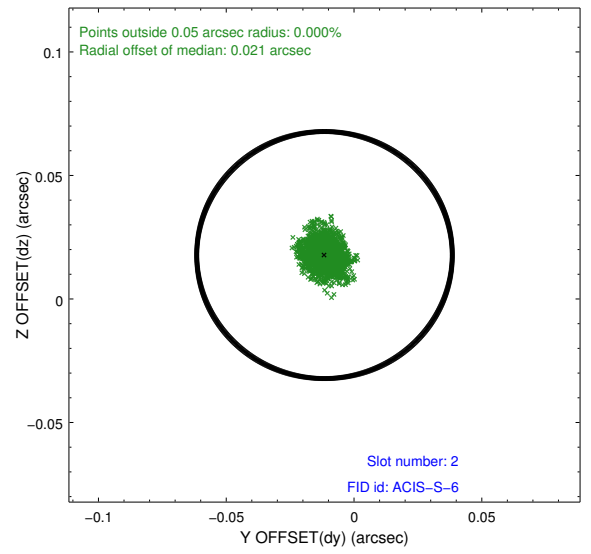
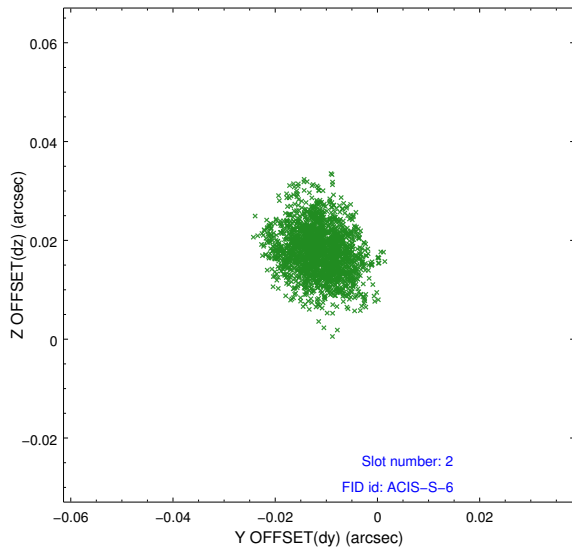
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.006

A.2 Comments

Window constraint met.