

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6766 - L2 Version 2
Chandra X-Ray Center

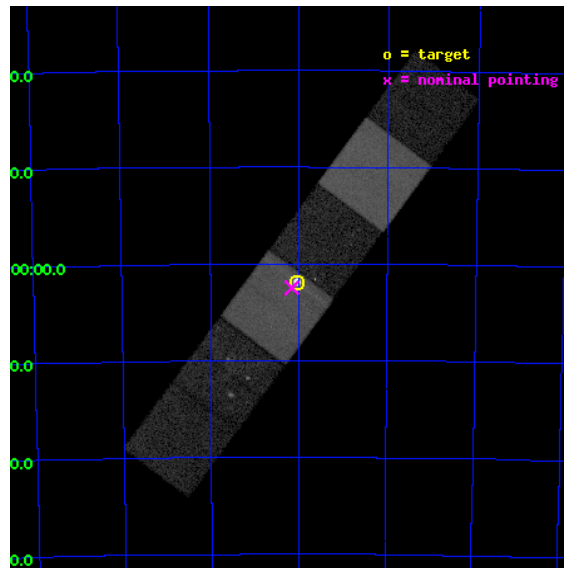
L2 Processing Date : Apr 2 2012

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1 Front

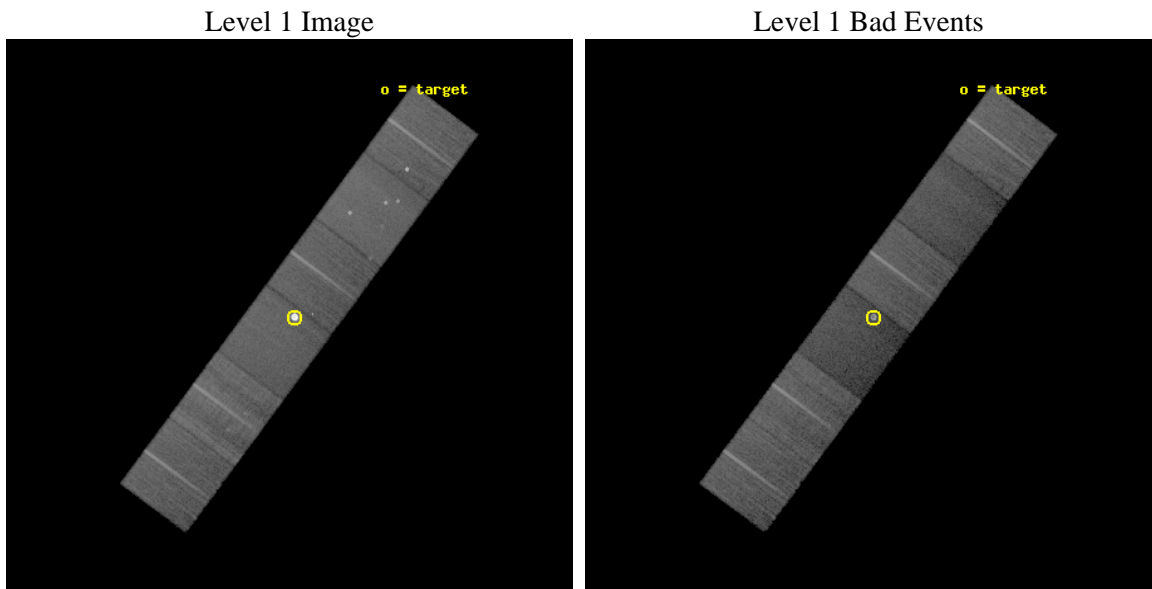
seq_num	590449	Sequence number
obs_id	6766	Observation id
title	AO7 ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S3,-120,-1,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.038687294286	Nominal RA [deg]
dec_nom	-72.041200204446	Nominal Dec [deg]
roll_nom	126.57966456937	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19948.53379333	Sum of GTIs [s]
livetime	19695.933446874	Livetime [s]
ontime4	19945.333853066	Sum of GTIs [s]
ontime5	19948.492753327	Sum of GTIs [s]
ontime6	19948.451713324	Sum of GTIs [s]
ontime7	19948.53379333	Sum of GTIs [s]
ontime8	19948.41067332	Sum of GTIs [s]
ontime9	19948.369633347	Sum of GTIs [s]
l2events	331395	Number of level 2 events



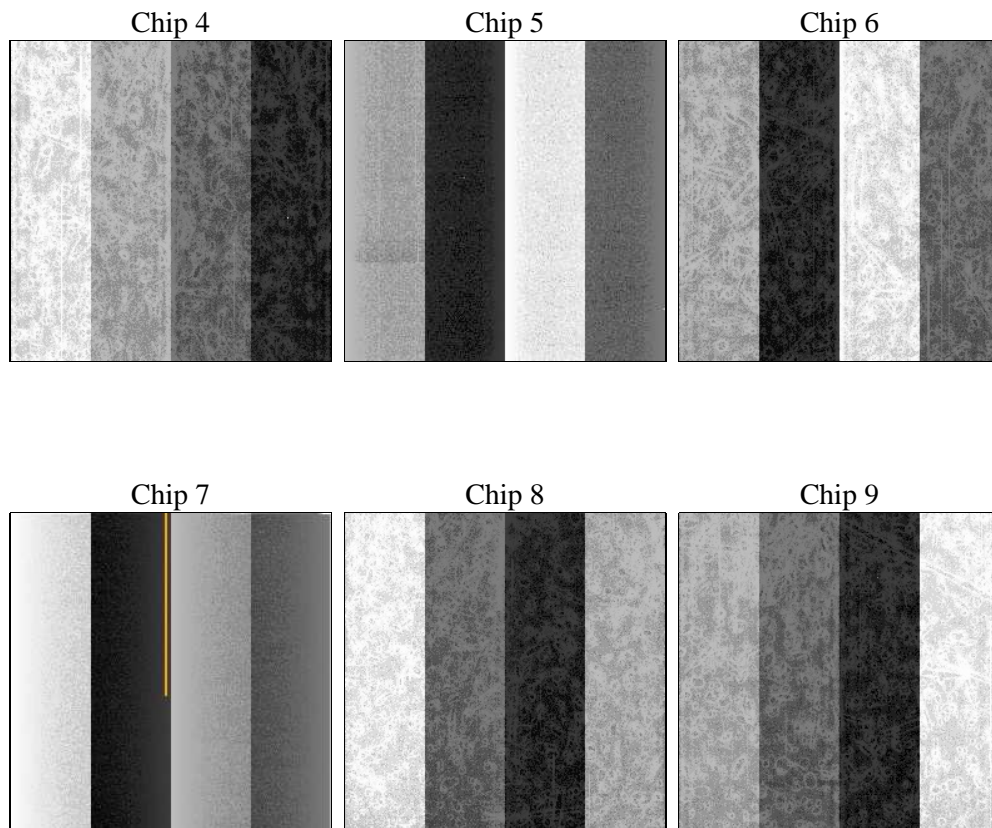
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	19948.53379333	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	19945.333853066	Sum of GTIs [s]
date	2012-04-02T20:35:38	Date and time of file creation	ontime5	19948.492753327	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	19948.451713324	Sum of GTIs [s]
			ontime7	19948.53379333	Sum of GTIs [s]
			ontime8	19948.41067332	Sum of GTIs [s]
			ontime9	19948.369633347	Sum of GTIs [s]
			l1events	1067637	Number of level 1 events

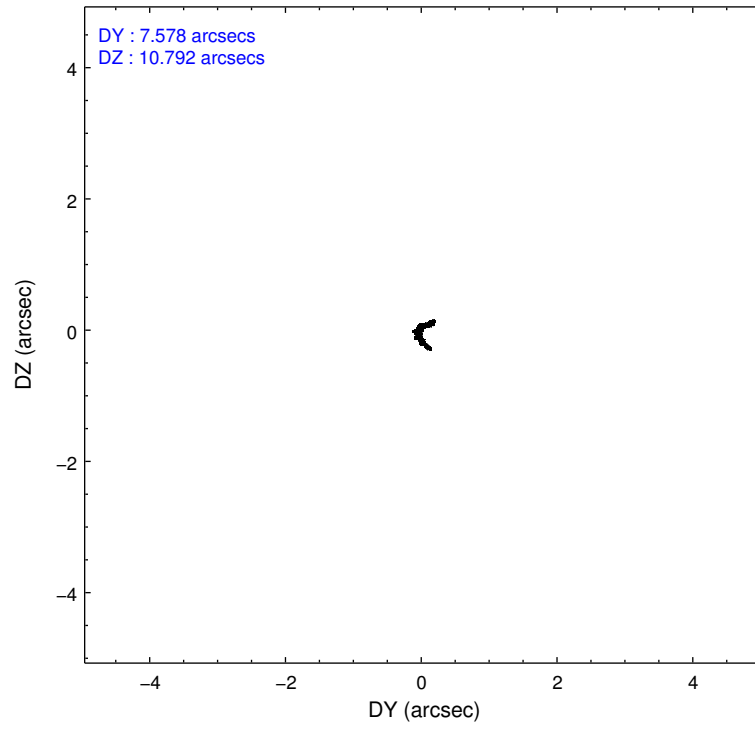
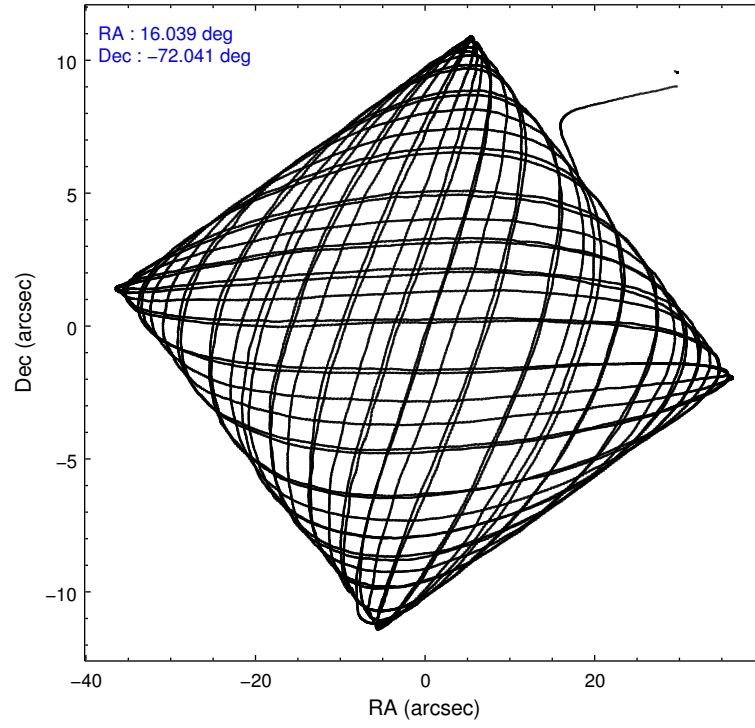
2.1.4 Events

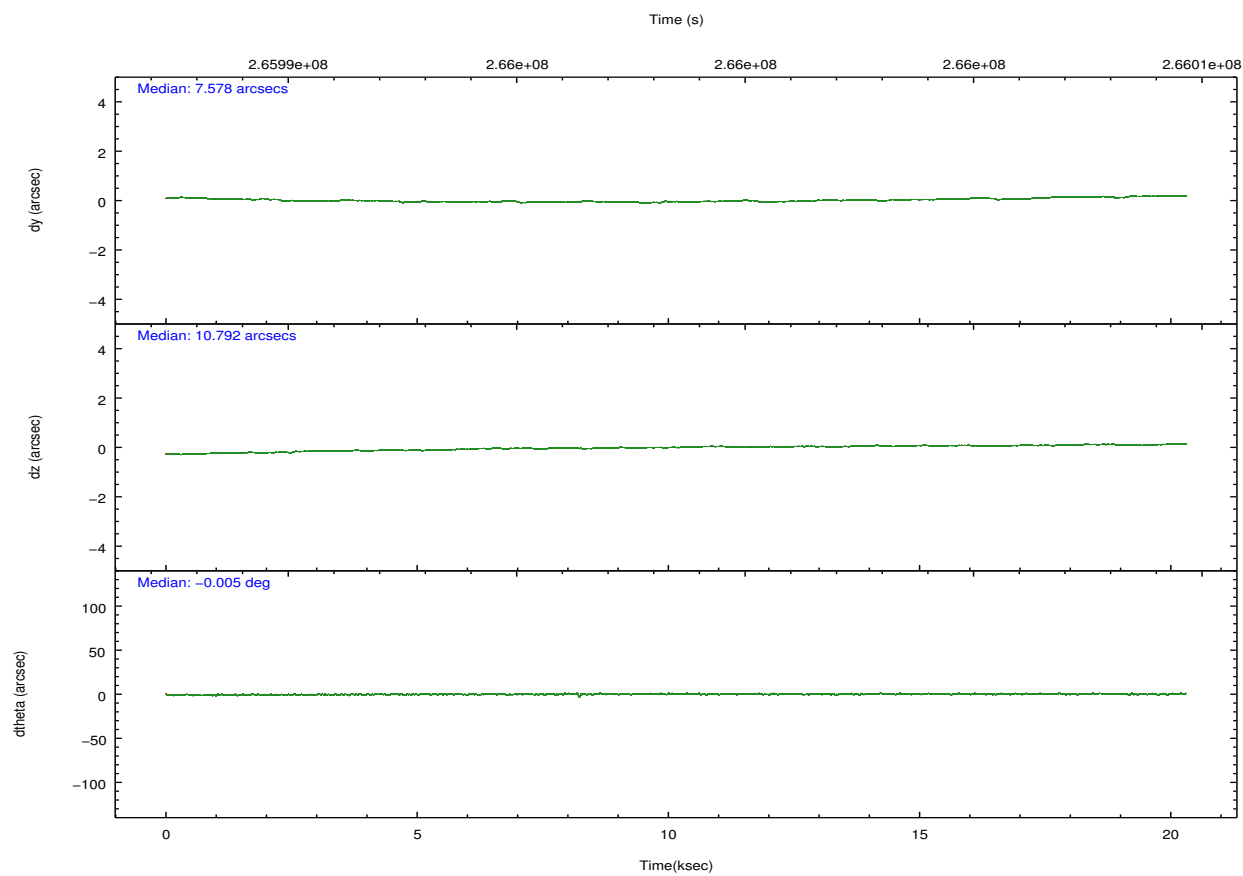
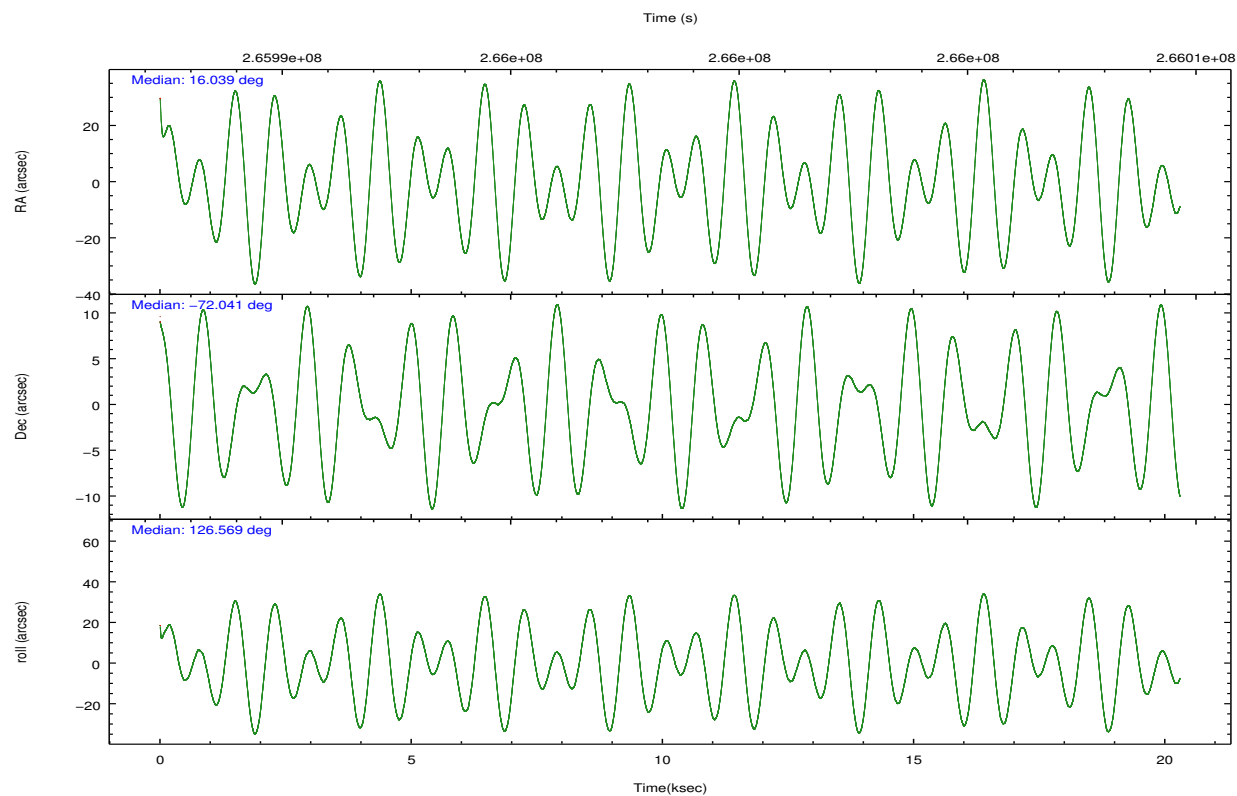
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	168363	174841	141728	270107	175982	136616	grade 0 events	10300	11865	6046	47616	12864	4862
rejected events	149179	81448	126440	71560	133201	122723		6%	6%	4%	17%	7%	3%
rejected %	88%	46%	89%	26%	75%	89%	grade 1 events	191	230	76	919	157	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	3400	27636	3227	51843	9605	3085
								2%	15%	2%	19%	5%	2%
							grade 3 events	1650	4160	1621	23018	4686	1586
								0%	2%	1%	8%	2%	1%
							grade 4 events	1537	4030	1577	22404	4324	1549
								0%	2%	1%	8%	2%	1%
							grade 5 events	4647	14058	4643	16442	7105	5134
								2%	8%	3%	6%	4%	3%
							grade 6 events	2302	45720	2822	53735	11306	2813
								1%	26%	1%	19%	6%	2%
							grade 7 events	144336	67142	121716	54130	125935	117492
								85%	38%	85%	20%	71%	86%

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	16.120232	16.03868729428621	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.051680	-72.04120020444606	Alternating exposures requested	N	N
[deg] Pointing Roll	126.500616	126.5796645693694	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	262828865.184000	262828865.184000			
[s] Window stop time (MET)	268012865.184000	268012865.184000			
[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)	265988638.184000	265987621.32027			
Observation start date	2006-06-06T13:42:53	2006-06-06T13:27:01			
[s] Observation end time (MET)	266008638.184000	266009407.18379			
Observation end date	2006-06-06T19:16:13	2006-06-06T19:30:07			
Read mode	TIMED	TIMED			

2.3 Aspect



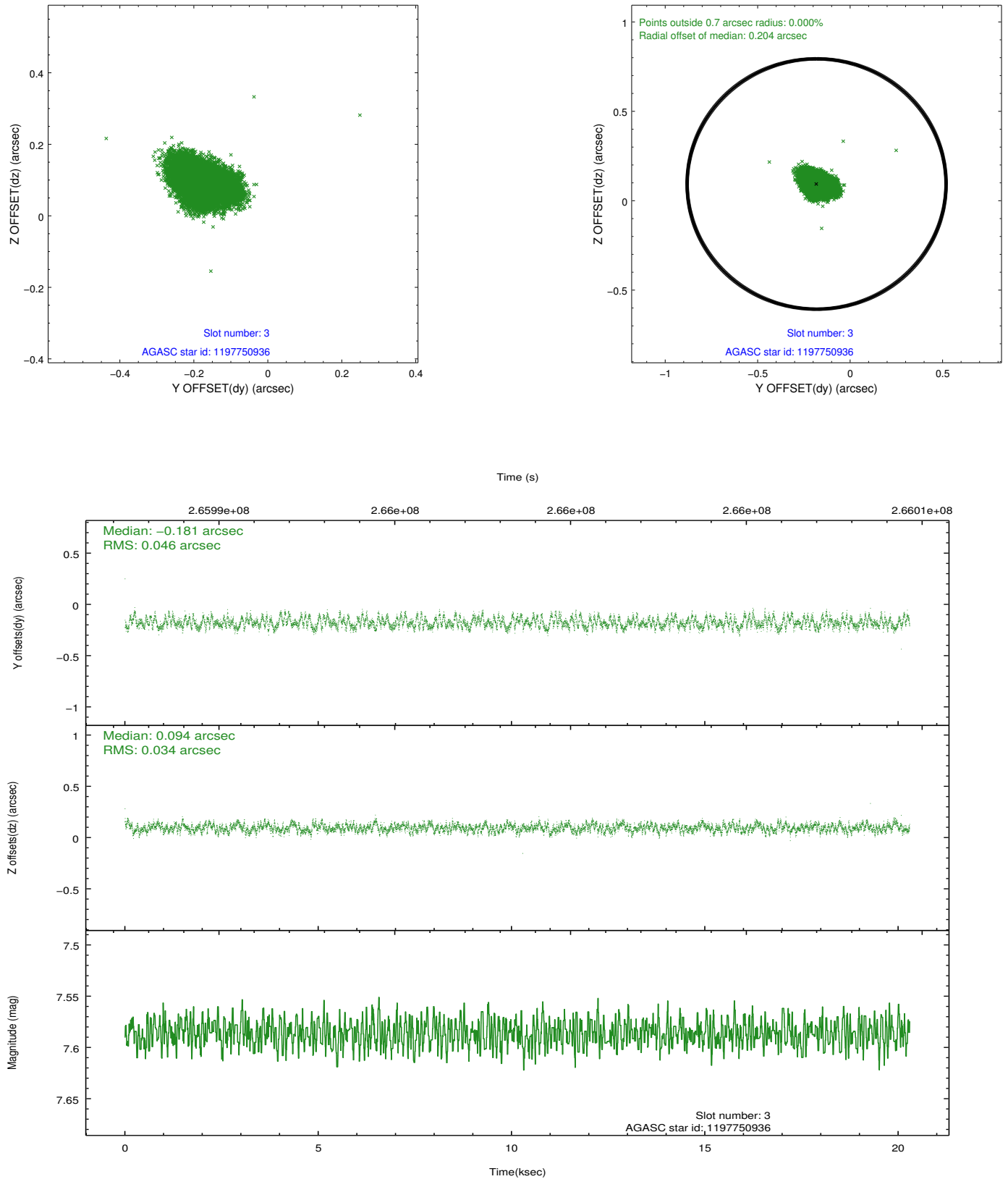


Slot Statistics

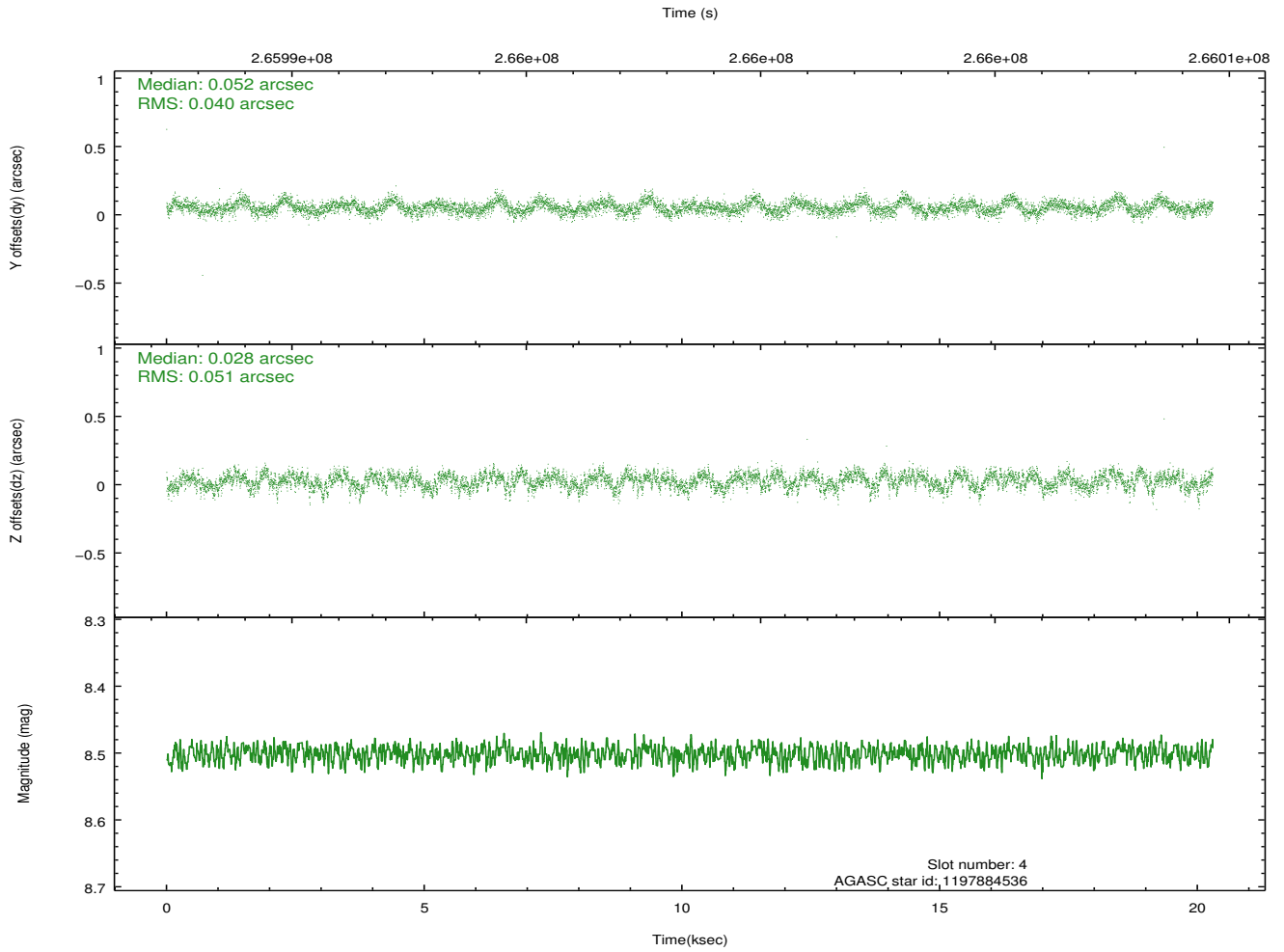
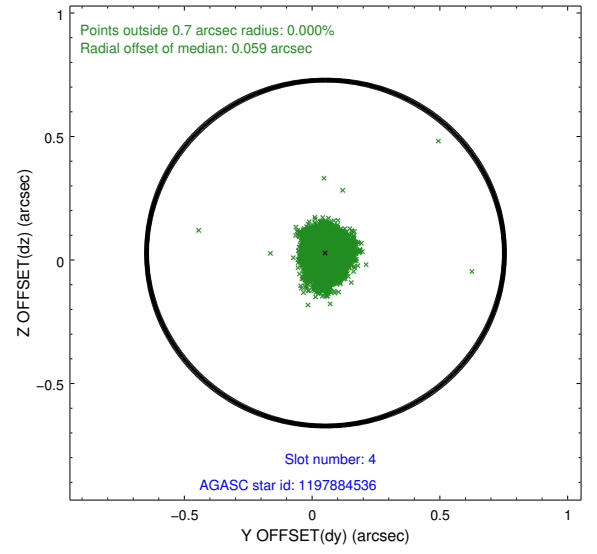
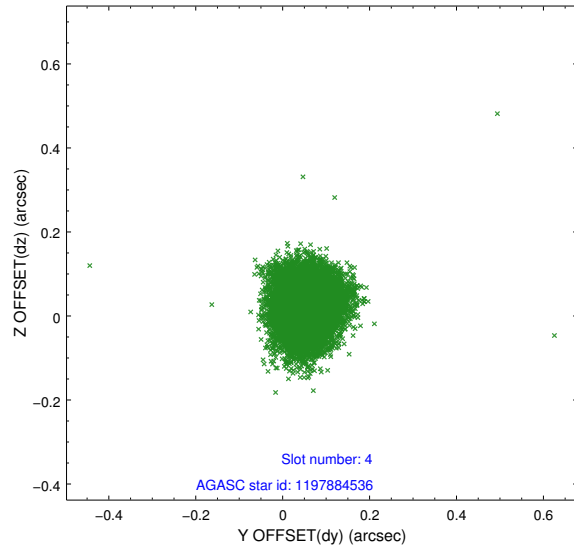
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4950	-0.051	-0.022	0.007	0.011	0.000000	0.000000	-760.37	-1732.07
1	FID	ACIS-S-4	7.21	4951	0.120	0.031	0.006	0.011	0.000000	0.000000	2152.95	176.34
2	FID	ACIS-S-5	7.23	4951	-0.100	-0.000	0.008	0.013	0.000000	0.000000	-1813.08	170.10
3	GUIDE	1197750936	7.59	9902	-0.181	0.094	0.062	0.097	15.387940	-71.549550	1945.25	-400.75
4	GUIDE	1197884536	8.50	9902	0.052	0.028	0.069	0.109	17.160729	-71.835289	-75.66	-1395.77
5	GUIDE	1197884712	8.30	9901	0.062	-0.020	0.053	0.084	16.087398	-72.252690	-560.04	459.43
6	GUIDE	1197885328	7.24	9900	-0.101	0.061	0.051	0.081	16.283090	-71.733943	810.14	-828.14
7	GUIDE	1198189696	7.36	9901	0.161	-0.166	0.057	0.090	15.223750	-72.697522	-1303.80	2158.61

2.4 Star Slots

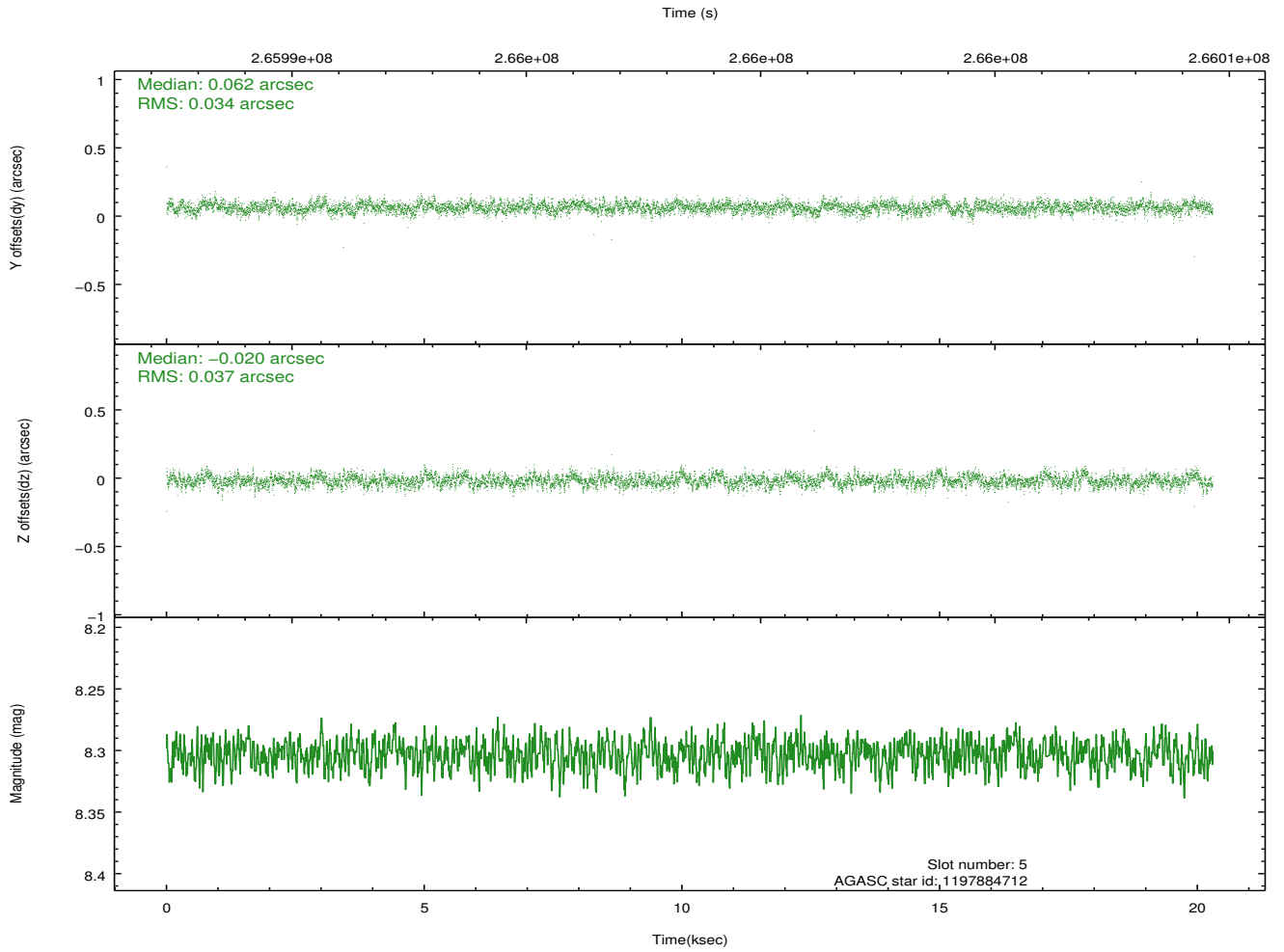
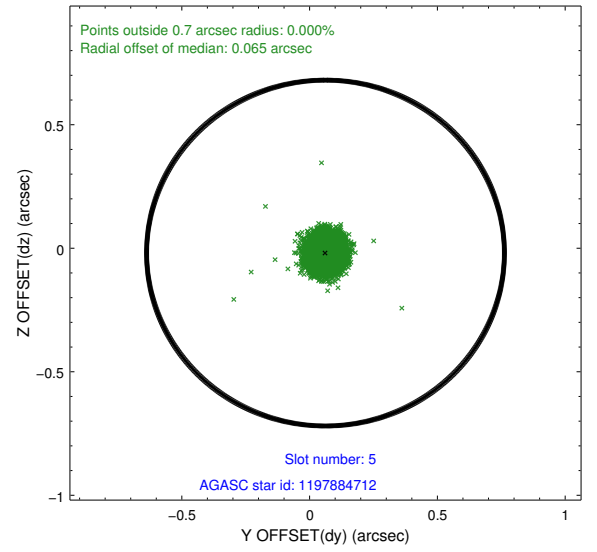
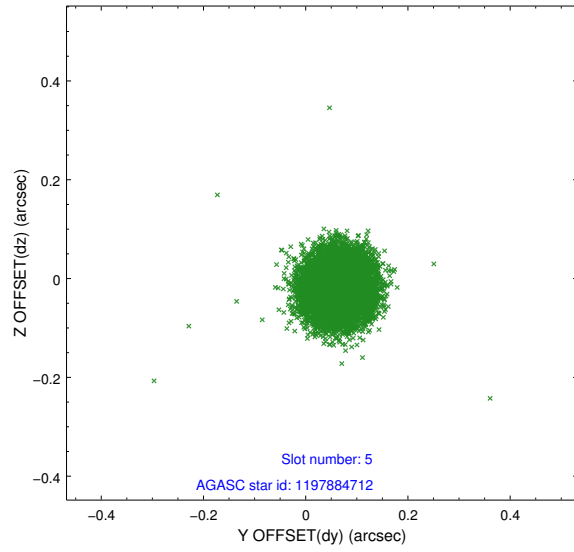
2.4.1 Slot 3



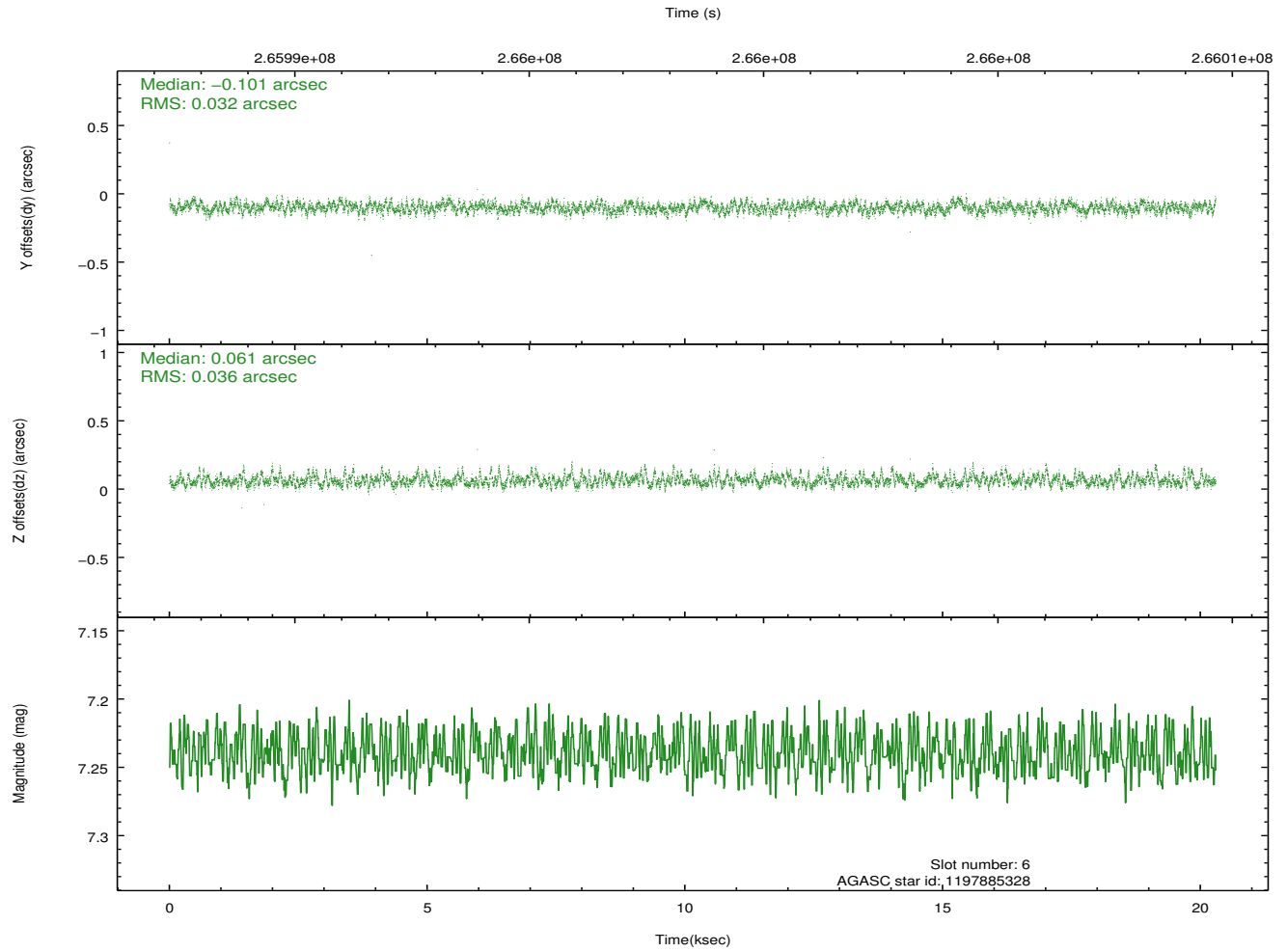
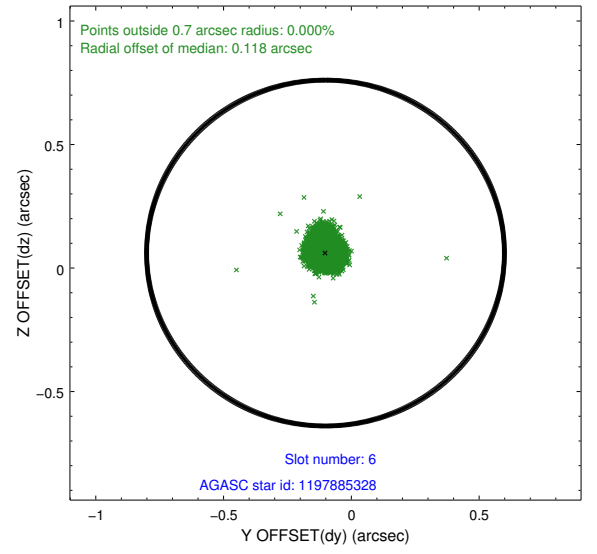
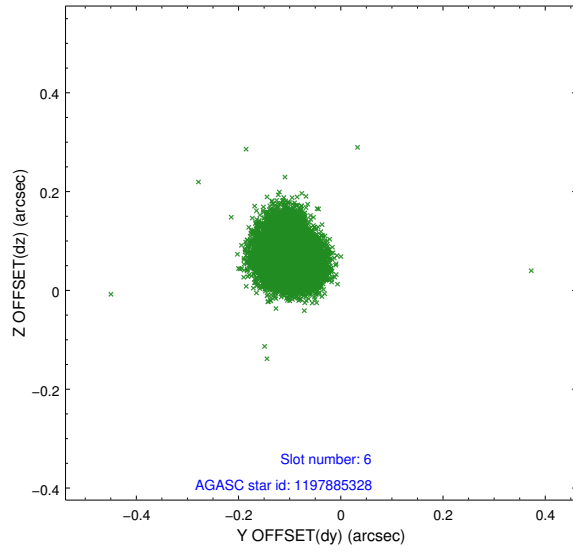
2.4.2 Slot 4



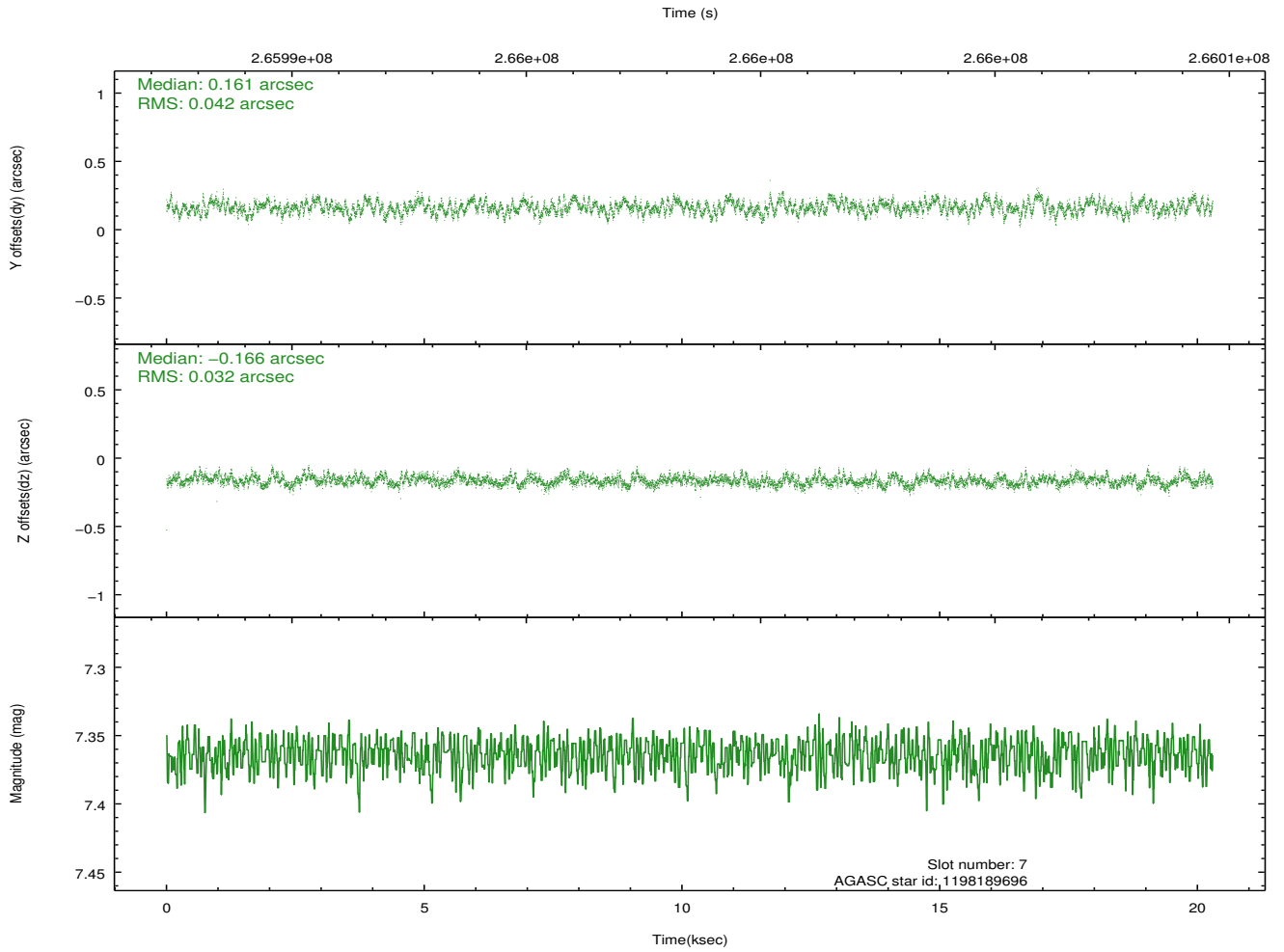
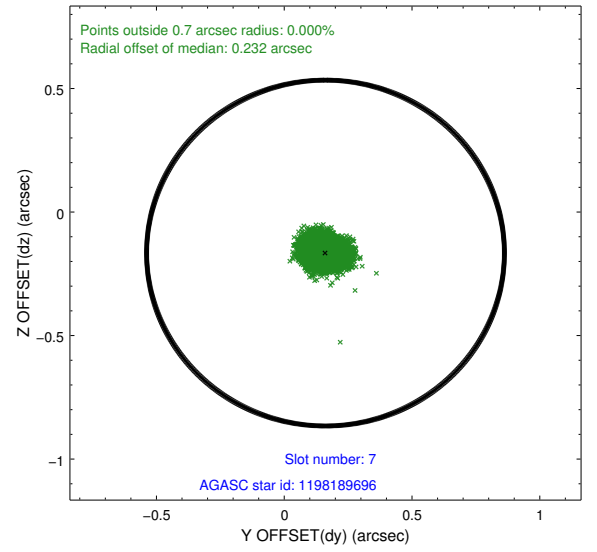
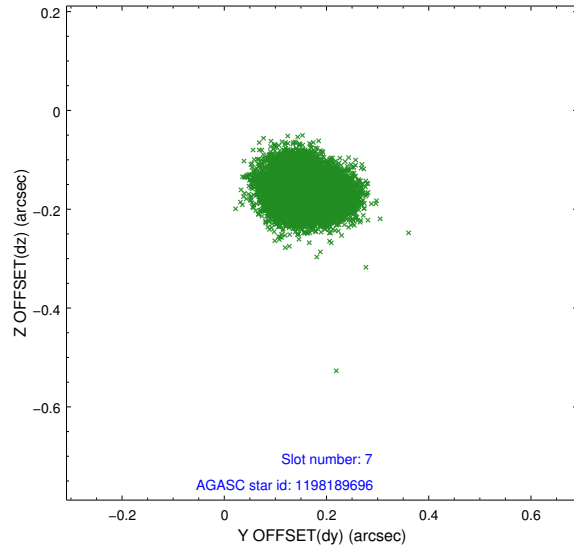
2.4.3 Slot 5



2.4.4 Slot 6

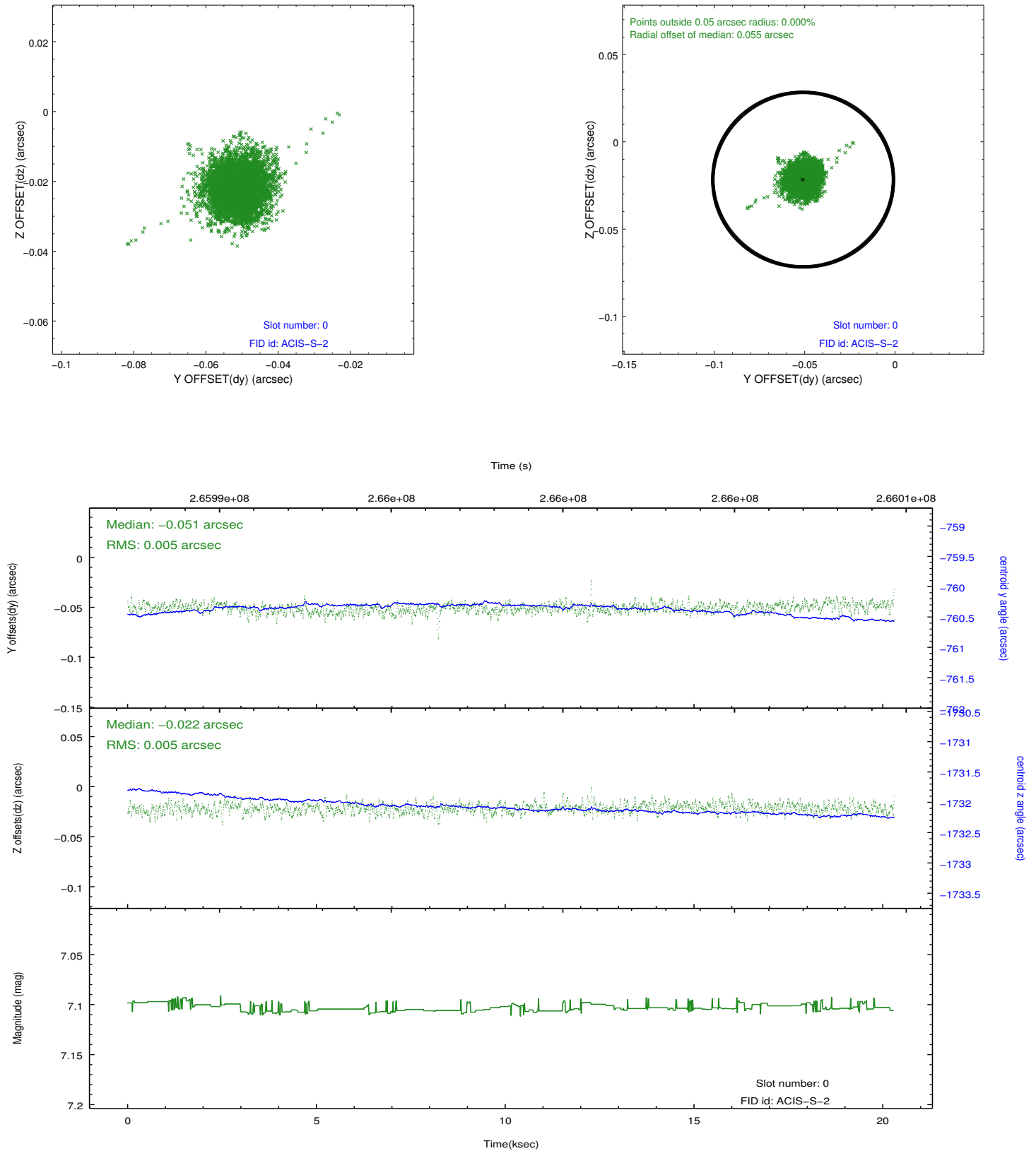


2.4.5 Slot 7

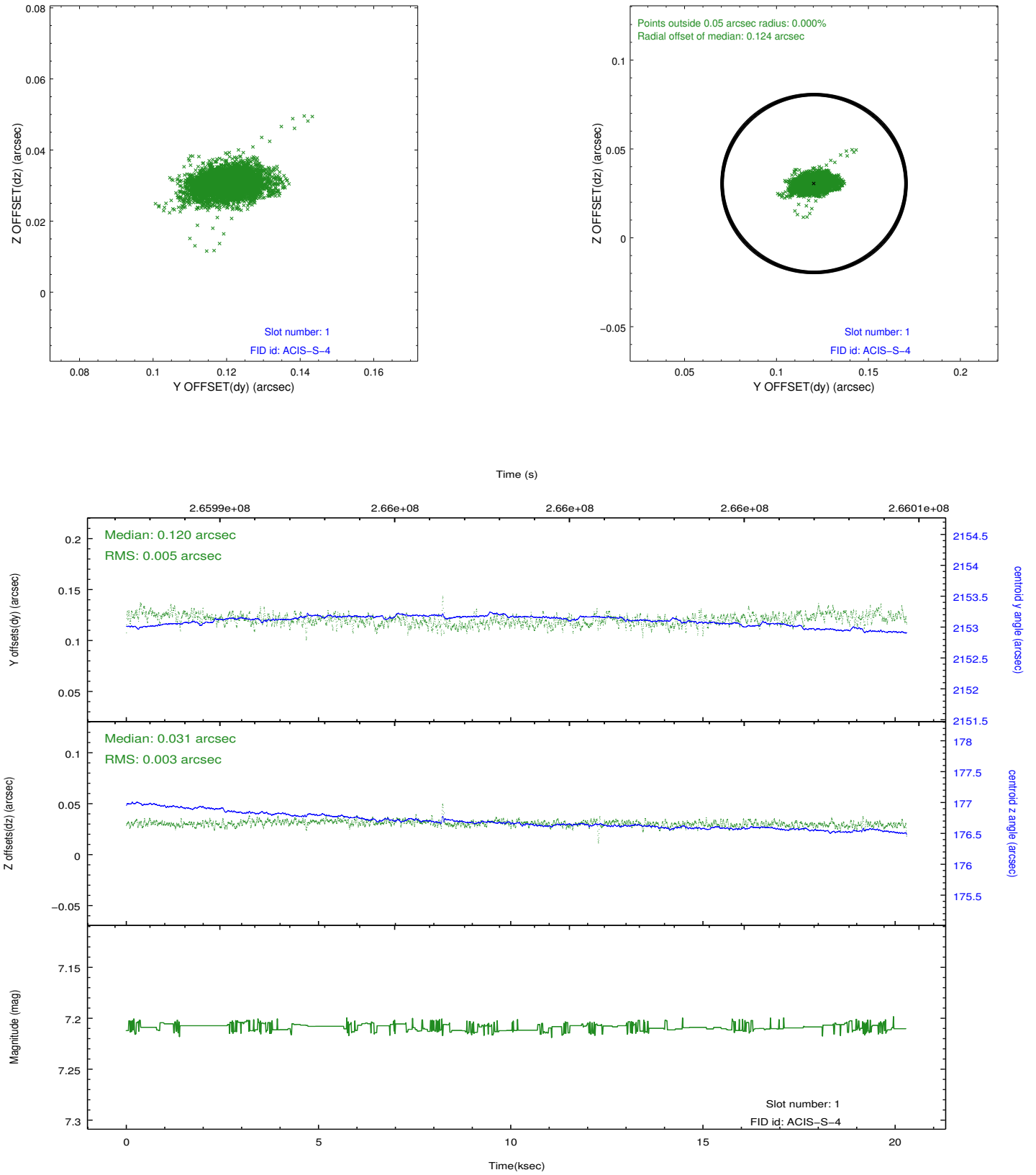


2.5 FID Slots

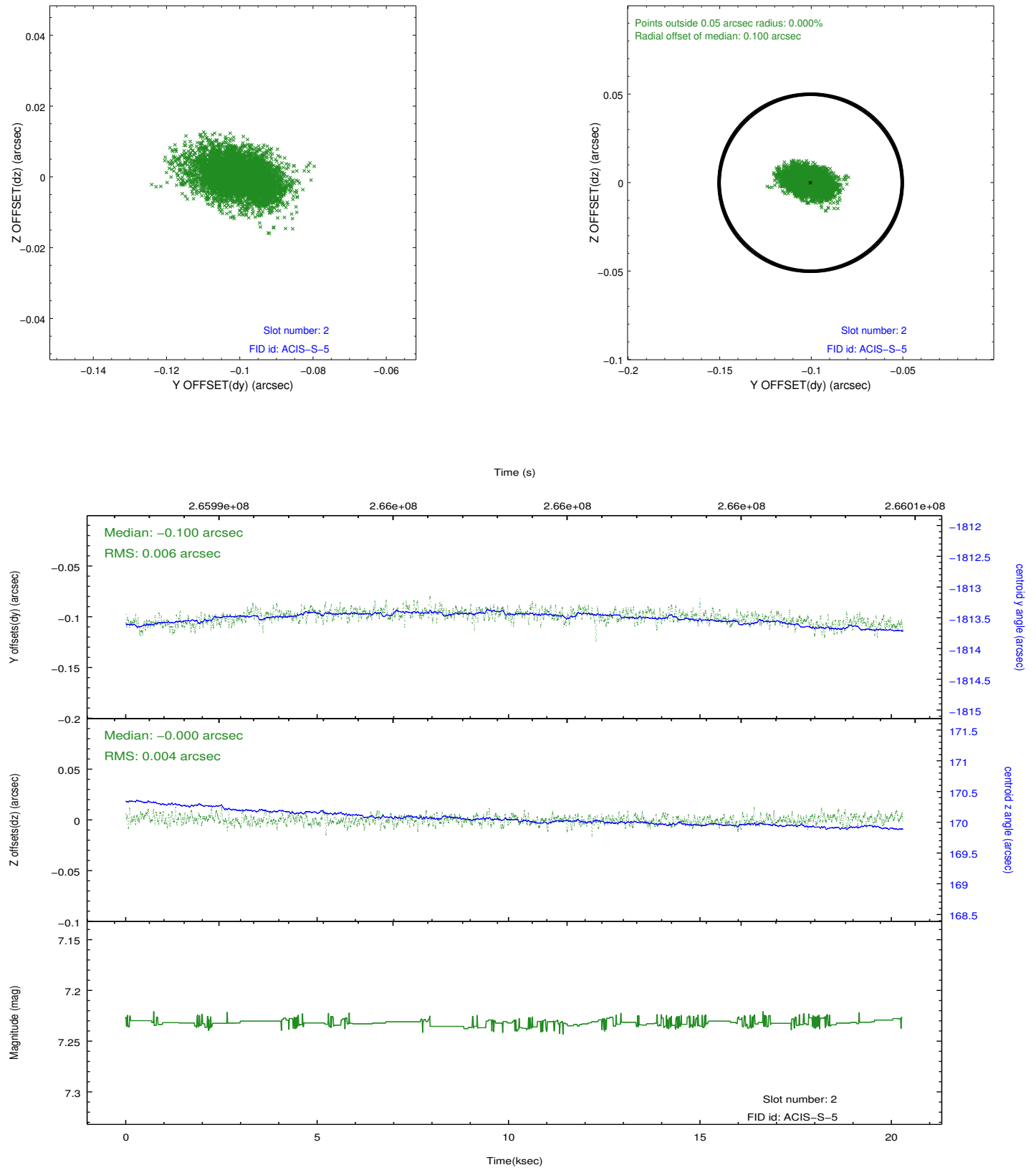
2.5.1 Slot 0



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)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.9487999

A.2 Comments

Window constraint met.