

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5131 - L2 Version 3
Chandra X-Ray Center

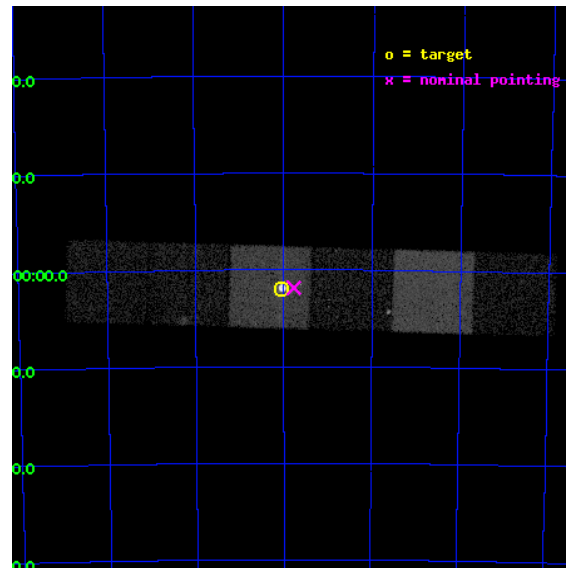
L2 Processing Date : Nov 13 2012

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1 Front

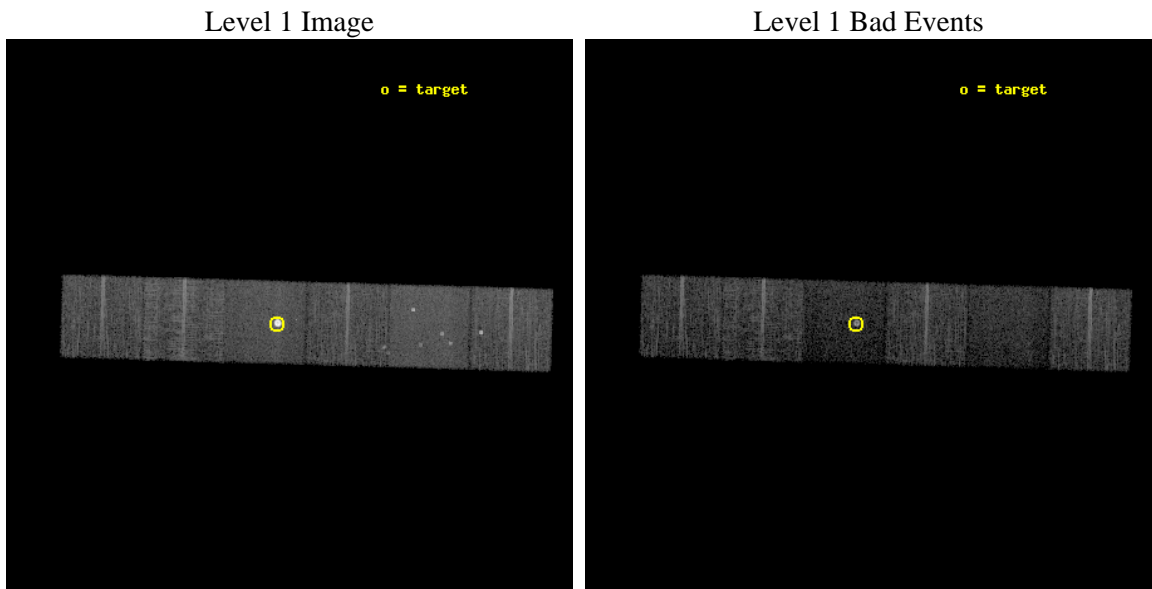
seq_num	590329	Sequence number
obs_id	5131	Observation id
title	AO5B ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S3,-120,-1,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.942702357997	Nominal RA [deg]
dec_nom	-72.030913754571	Nominal Dec [deg]
roll_nom	181.65513679216	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8115.1999697685	Sum of GTIs [s]
livetime	8012.4404213645	Livetime [s]
ontime4	8115.1999697685	Sum of GTIs [s]
ontime5	8115.1999697685	Sum of GTIs [s]
ontime6	8115.1999697685	Sum of GTIs [s]
ontime7	8115.1999697685	Sum of GTIs [s]
ontime8	8115.1999697685	Sum of GTIs [s]
ontime9	8111.9589994848	Sum of GTIs [s]
l2events	117824	Number of level 2 events



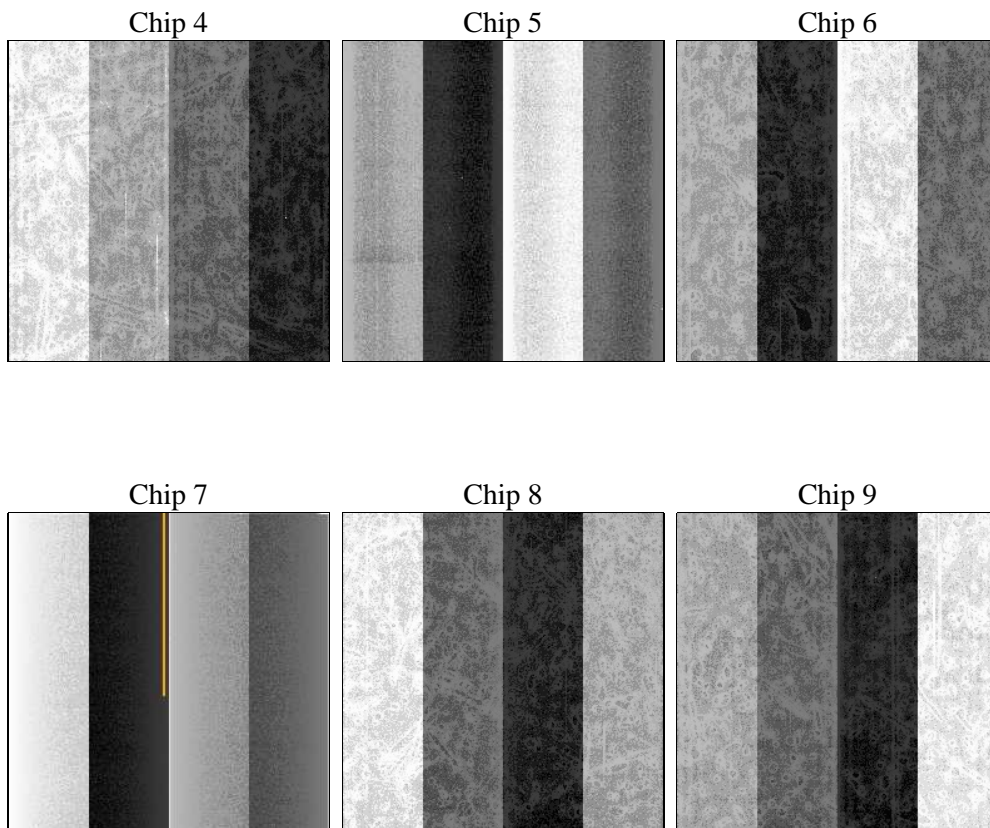
2 OBI

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	8115.1999697685	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	8115.1999697685	Sum of GTIs [s]
date	2012-11-14T01:17:19	Date and time of file creation	ontime5	8115.1999697685	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	8115.1999697685	Sum of GTIs [s]
			ontime7	8115.1999697685	Sum of GTIs [s]
			ontime8	8115.1999697685	Sum of GTIs [s]
			ontime9	8111.9589994848	Sum of GTIs [s]
			l1events	367020	Number of level 1 events

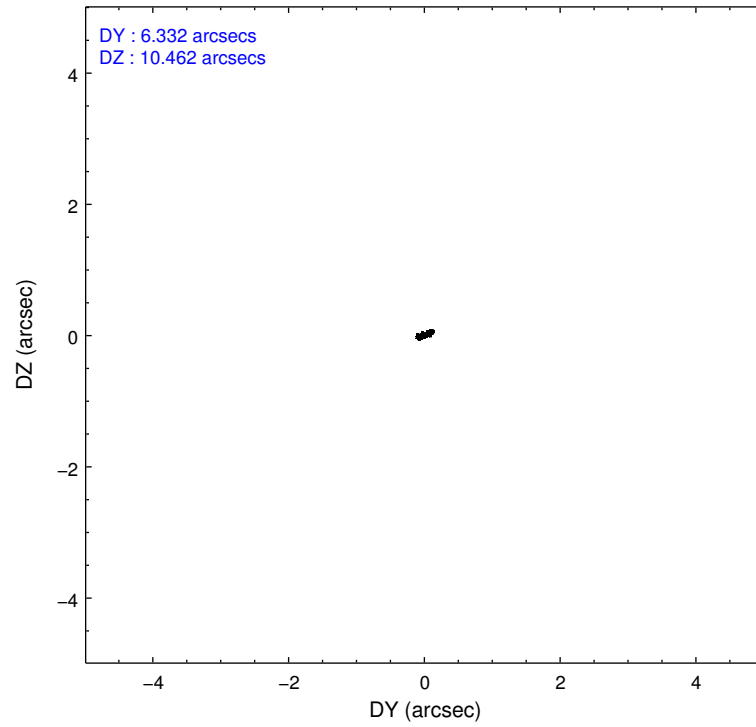
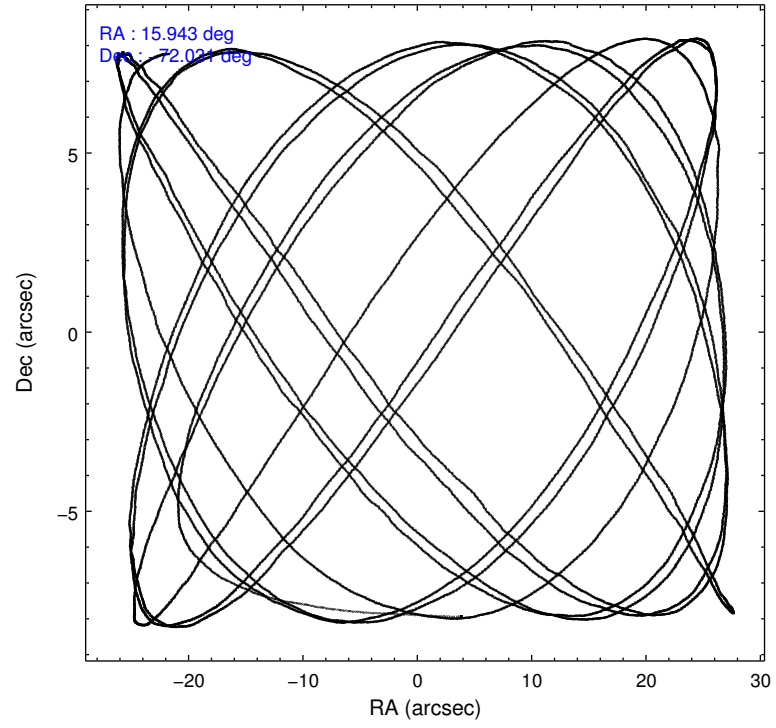
2.1.4 Events

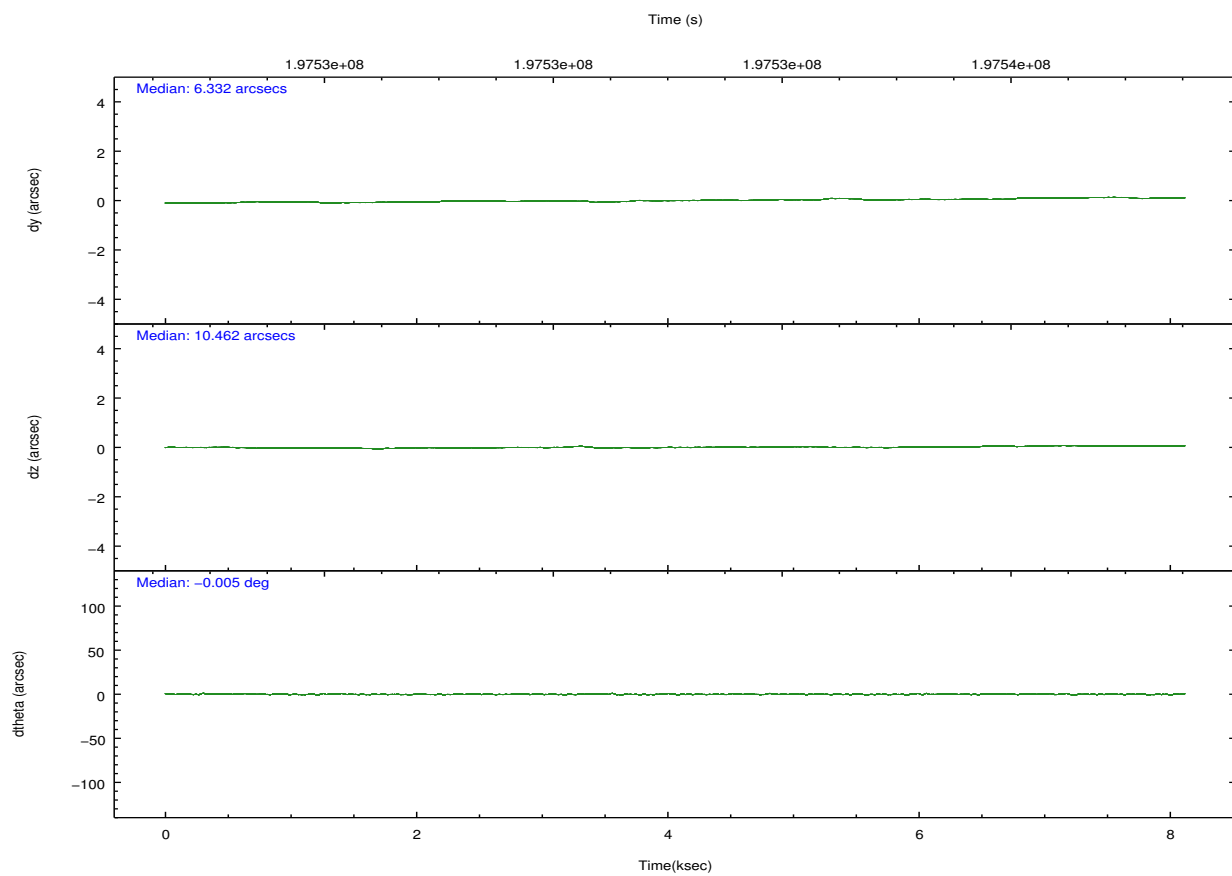
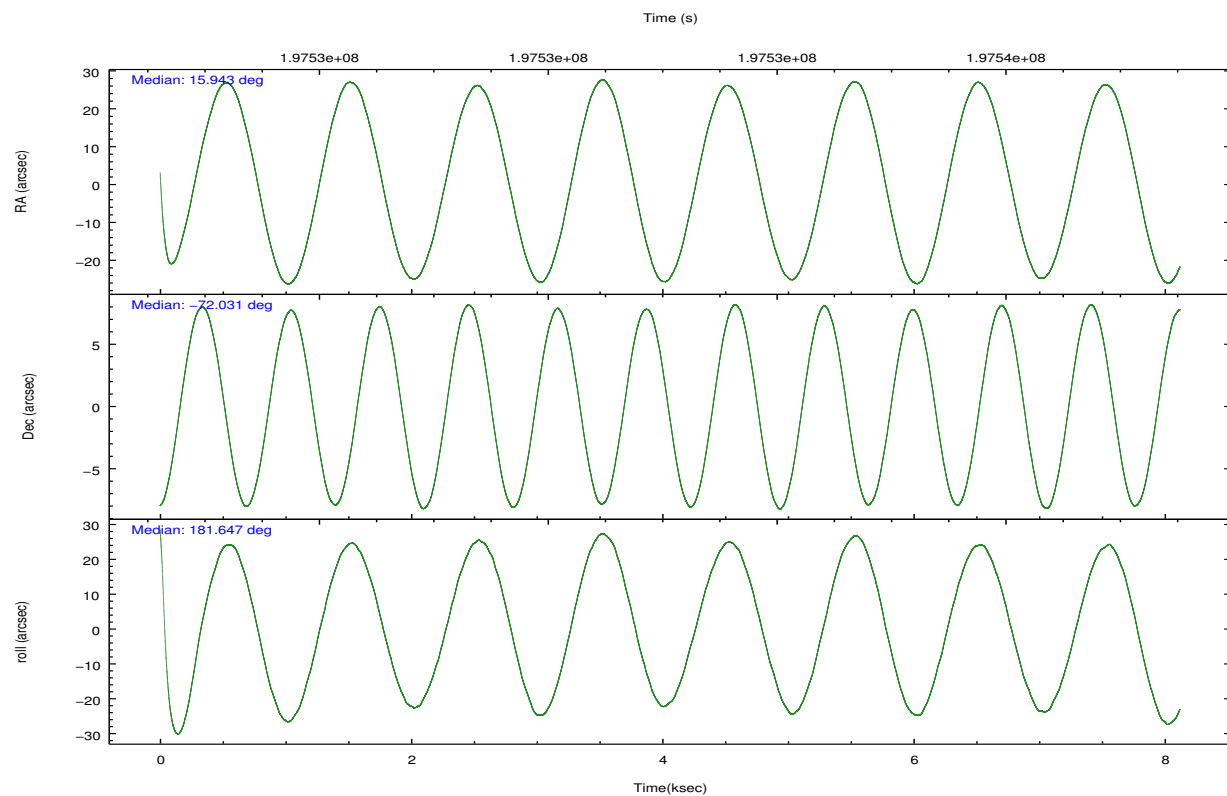
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	56205	57829	47199	103586	57690	44511	grade 0 events	4410	5808	2292	23760	3659	1734
rejected events	49379	28317	42126	26729	45503	40200		7%	10%	4%	22%	6%	3%
rejected %	87%	48%	89%	25%	78%	90%	grade 1 events	44	119	28	463	41	22
								0%	0%	0%	0%	0%	0%
							grade 2 events	1162	8529	1109	20125	3103	947
								2%	14%	2%	19%	5%	2%
							grade 3 events	529	1519	533	9040	1381	542
								0%	2%	1%	8%	2%	1%
							grade 4 events	488	1439	546	9023	1250	530
								0%	2%	1%	8%	2%	1%
							grade 5 events	1553	4694	1583	5650	2303	1704
								2%	8%	3%	5%	3%	3%
							grade 6 events	745	14607	910	18017	3908	956
								1%	25%	1%	17%	6%	2%
							grade 7 events	47274	21114	40198	17508	42045	38076
								84%	36%	85%	16%	72%	85%

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	16.017243	15.94270235799723	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.016304	-72.03091375457085	Alternating exposures requested	N	N
[deg] Pointing Roll	181.569356	181.655136792163	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	197164864.184000	197164864.184000			
[s] Window stop time (MET)	199670464.184000	199670464.184000			
[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)	197529125.184000	197527772.37032			
Observation start date	2004-04-05T05:11:01	2004-04-05T04:49:32			
[s] Observation end time (MET)	197537125.184000	197537596.99576			
Observation end date	2004-04-05T07:24:21	2004-04-05T07:33:16			
Read mode	TIMED	TIMED			

2.3 Aspect



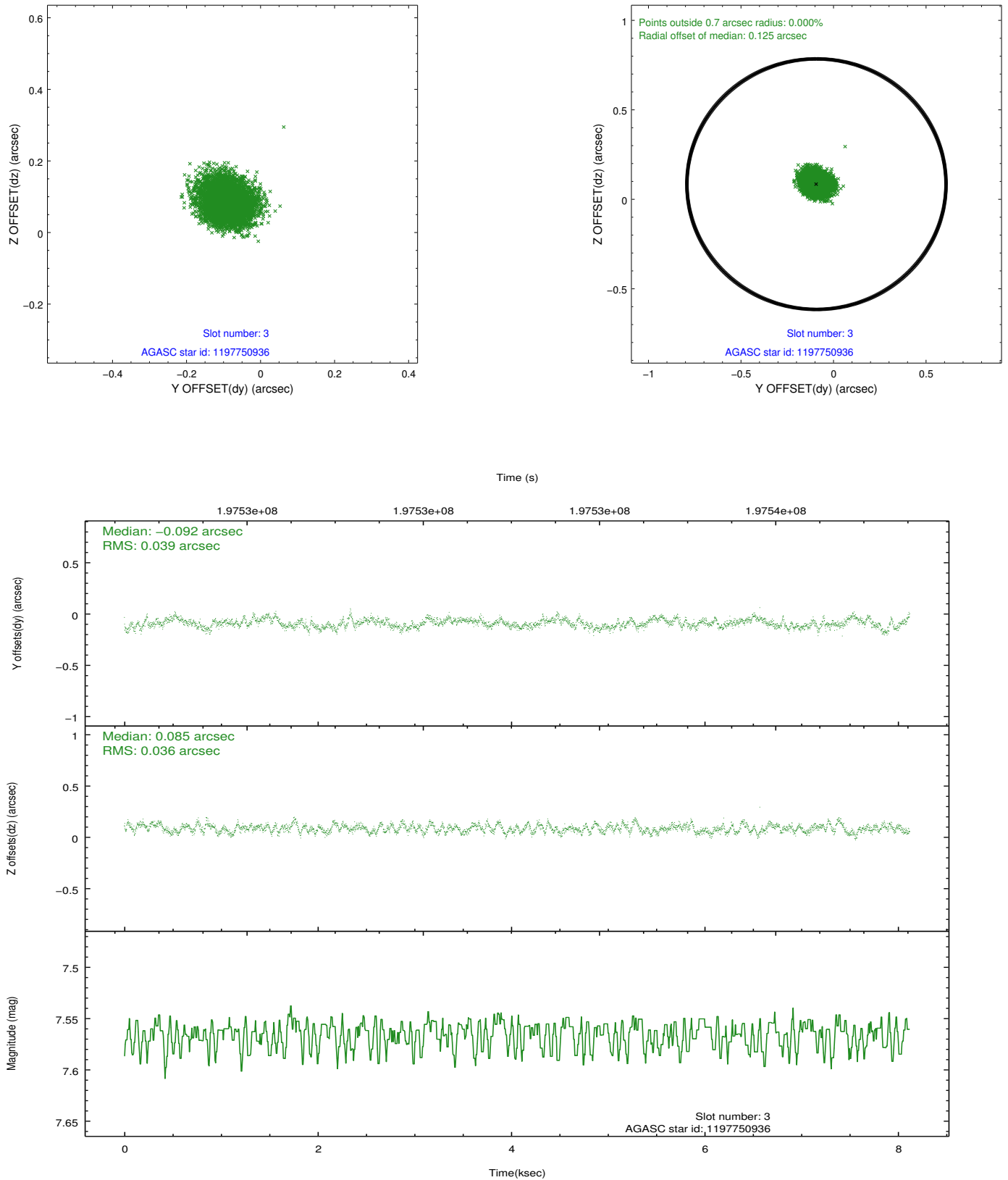


Slot Statistics

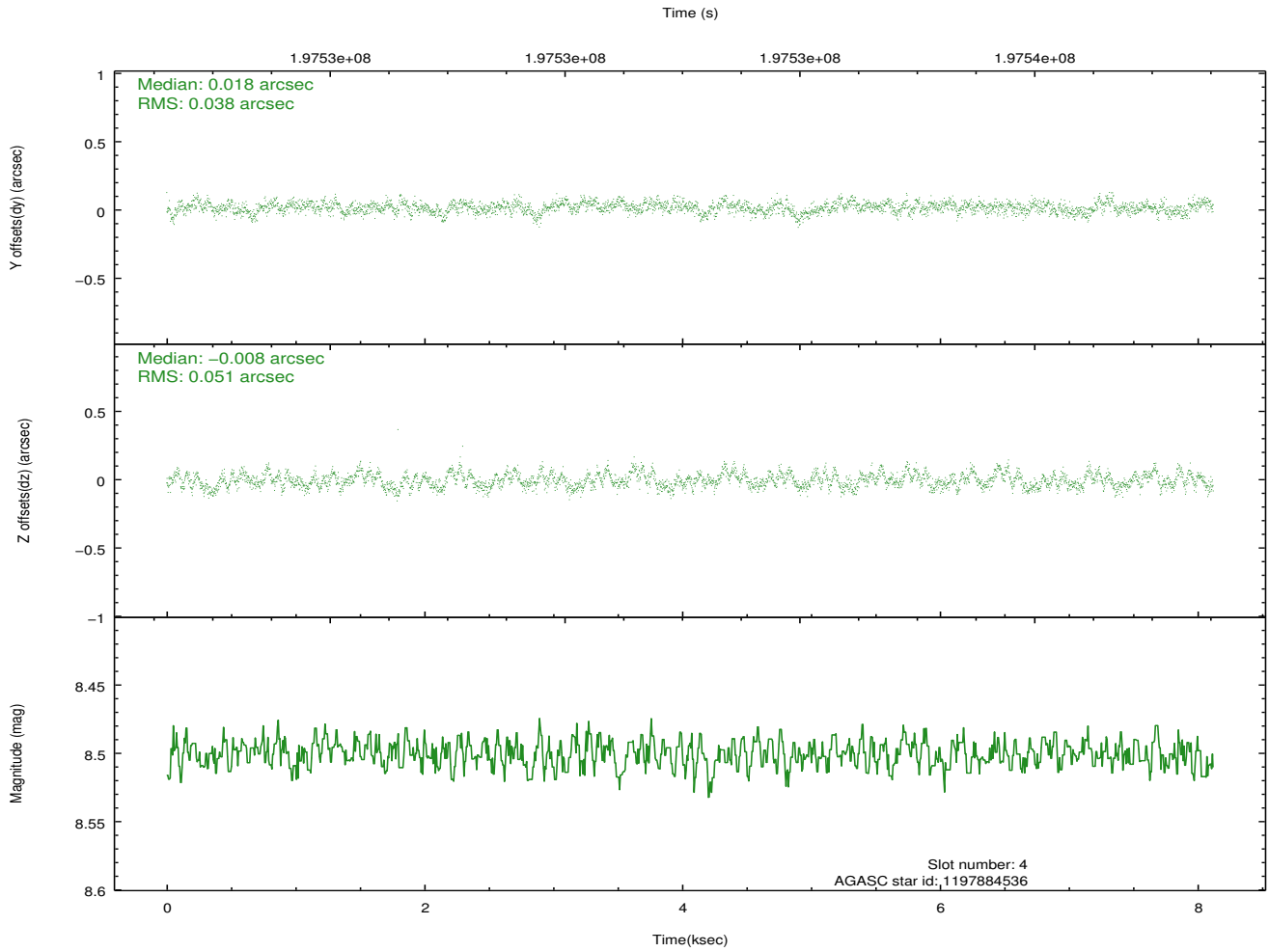
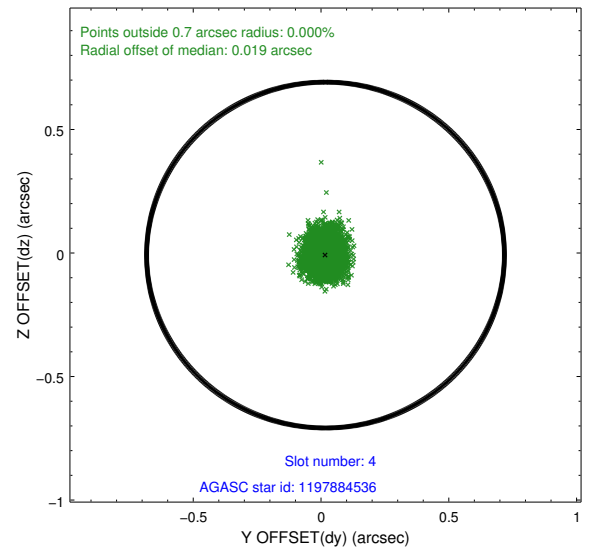
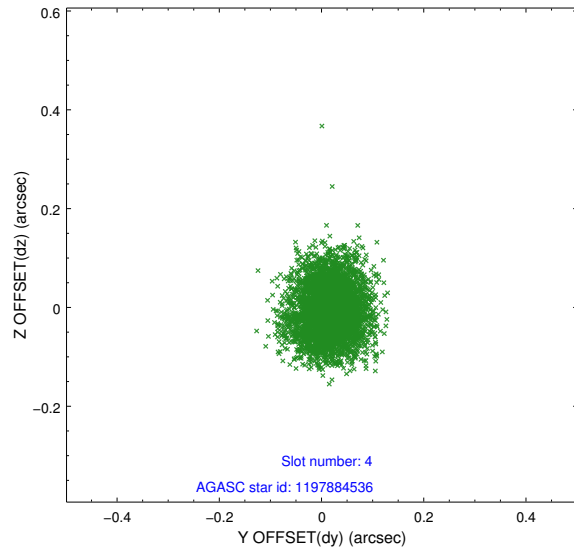
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1981	-0.061	-0.018	0.006	0.011	0.000000	0.000000	-759.10	-1731.76
1	FID	ACIS-S-4	7.21	1981	0.083	0.034	0.006	0.011	0.000000	0.000000	2153.97	176.12
2	FID	ACIS-S-5	7.23	1981	-0.053	-0.008	0.007	0.011	0.000000	0.000000	-1811.08	170.46
3	GUIDE	1197750936	7.56	3962	-0.092	0.085	0.058	0.090	15.387940	-71.549550	671.14	-1694.86
4	GUIDE	1197884536	8.50	3959	0.018	-0.008	0.067	0.108	17.160729	-71.835289	-1299.81	-604.38
5	GUIDE	1197884712	8.31	3962	-0.022	-0.044	0.060	0.098	16.087398	-72.252690	-53.95	852.99
6	GUIDE	1197885104	9.35	3959	0.082	-0.053	0.088	0.141	17.845067	-72.189368	-1993.40	708.94
7	GUIDE	1197885328	7.24	3961	0.017	0.019	0.054	0.084	16.283090	-71.733943	-328.26	-1006.93

2.4 Star Slots

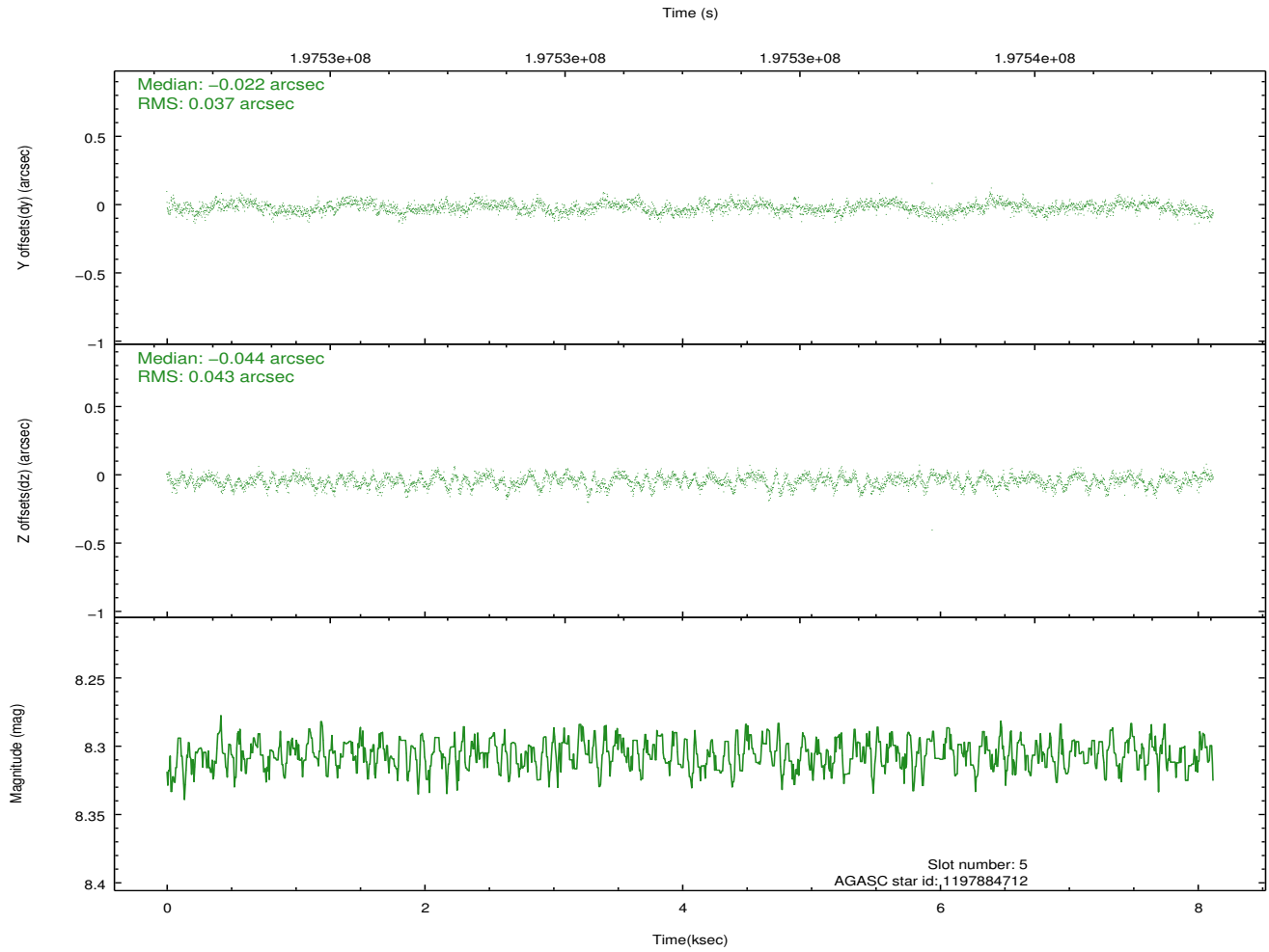
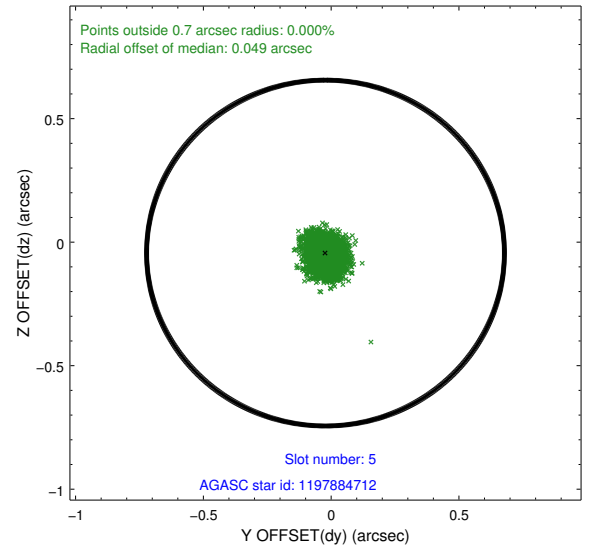
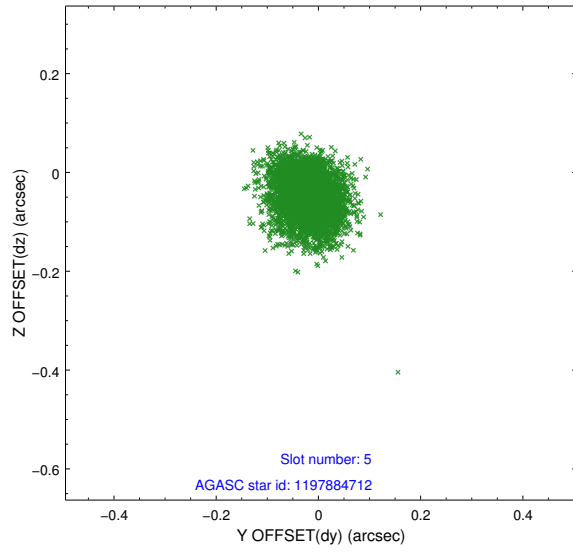
2.4.1 Slot 3



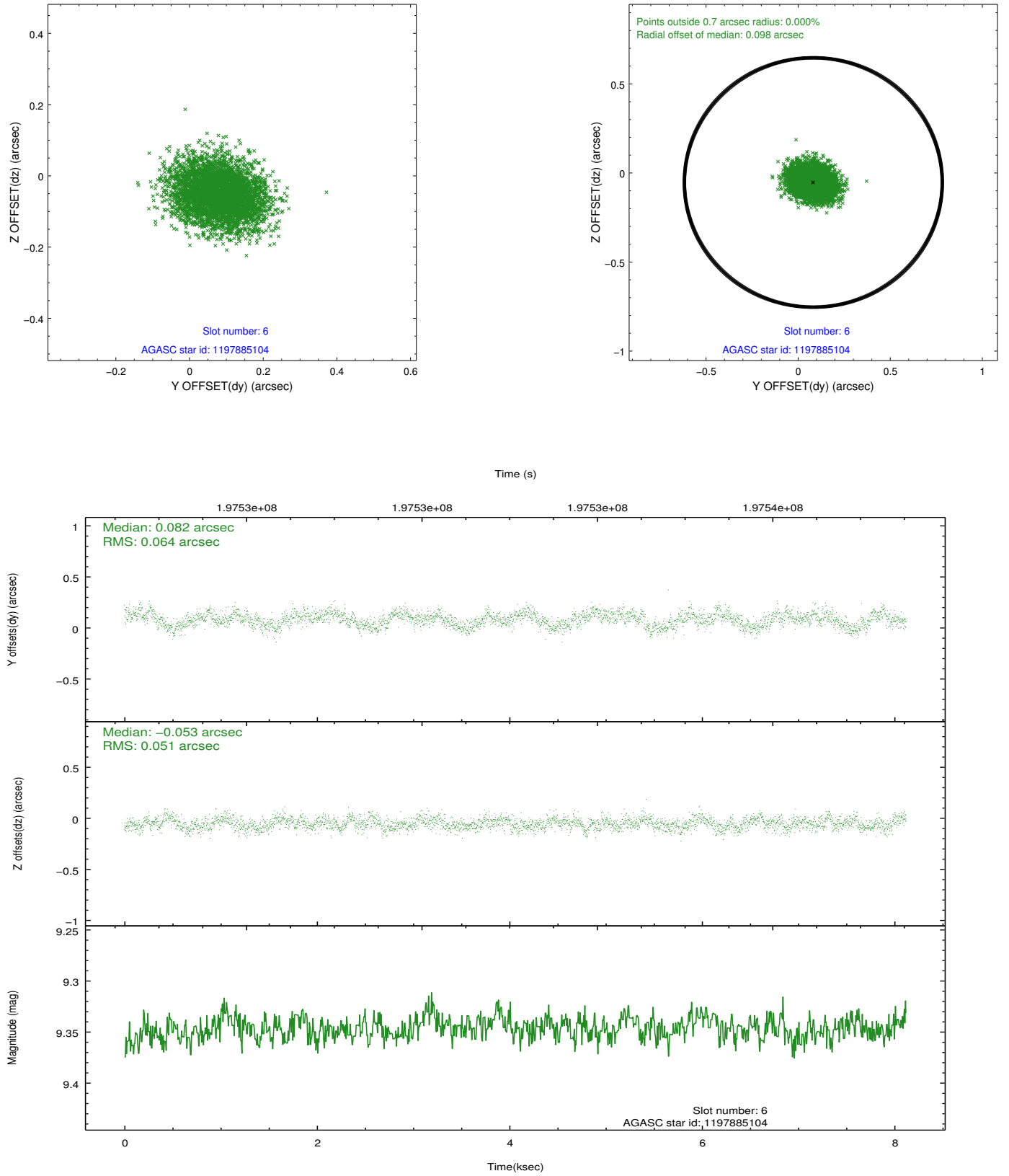
2.4.2 Slot 4



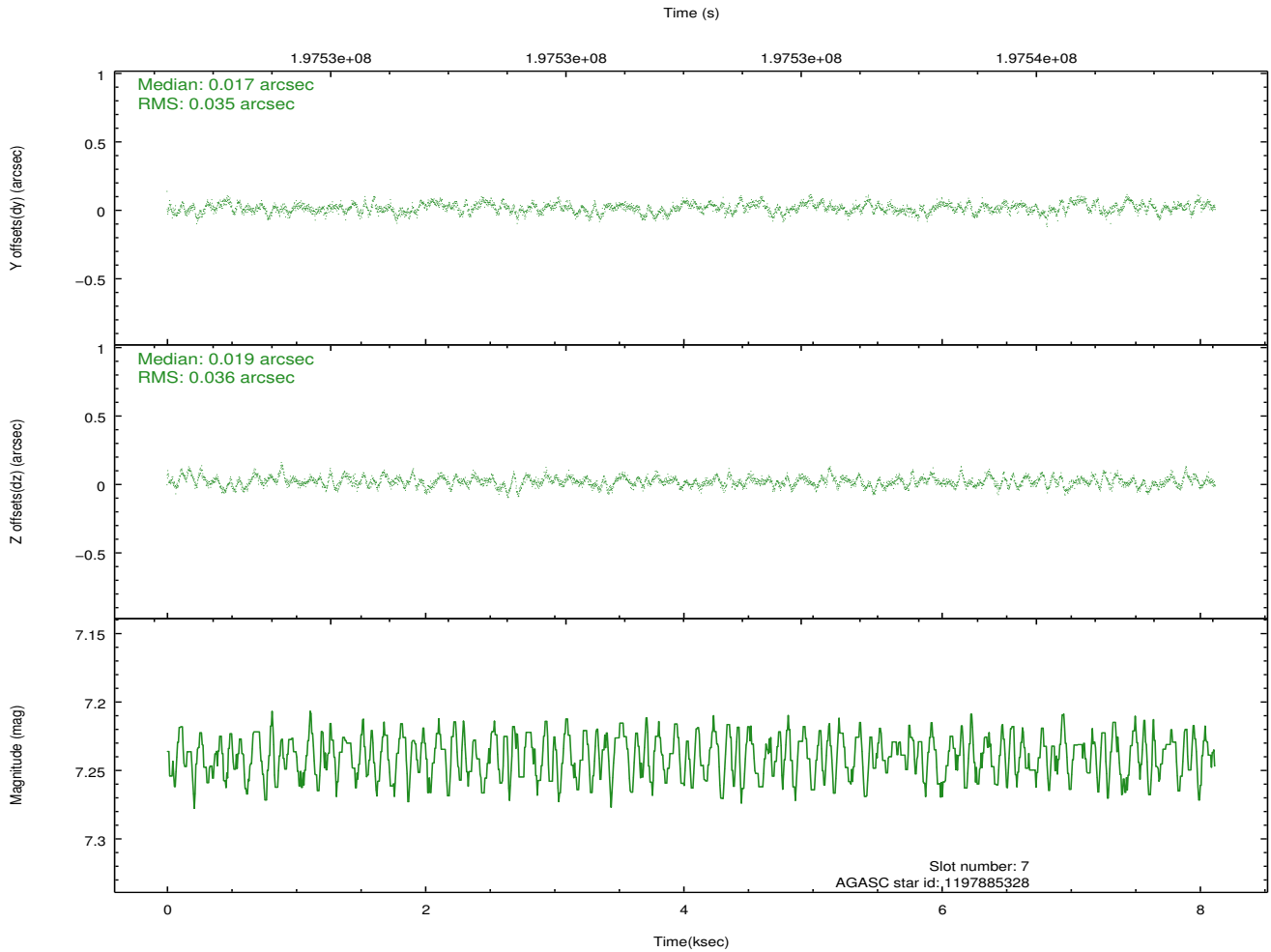
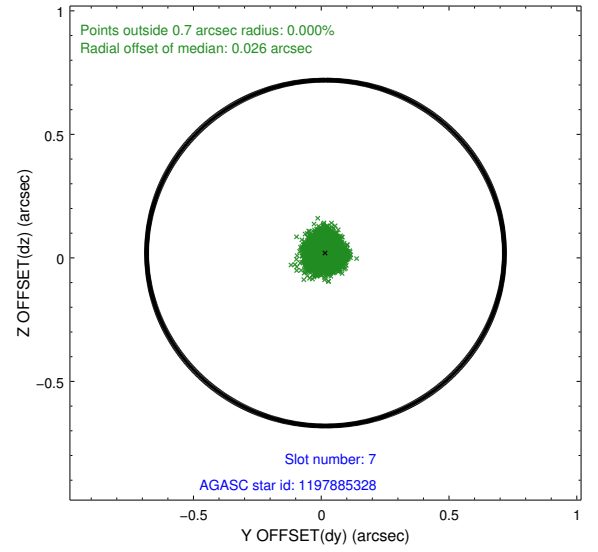
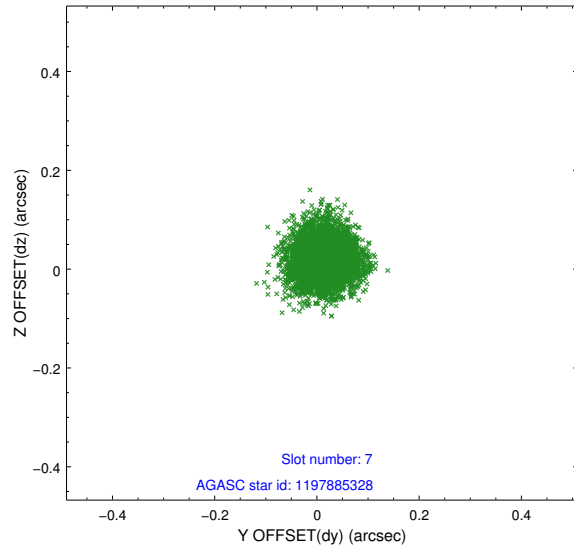
2.4.3 Slot 5



2.4.4 Slot 6

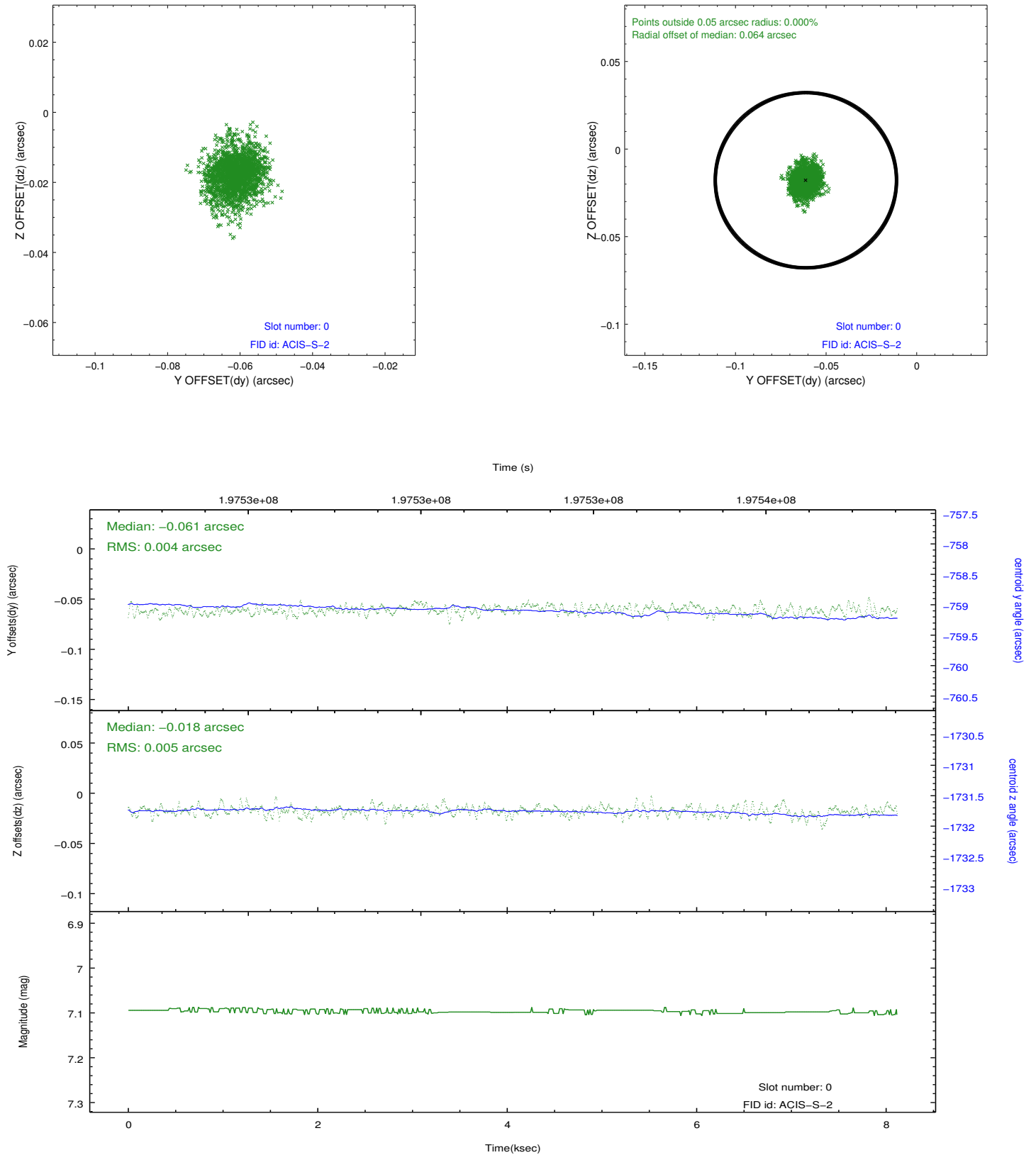


2.4.5 Slot 7

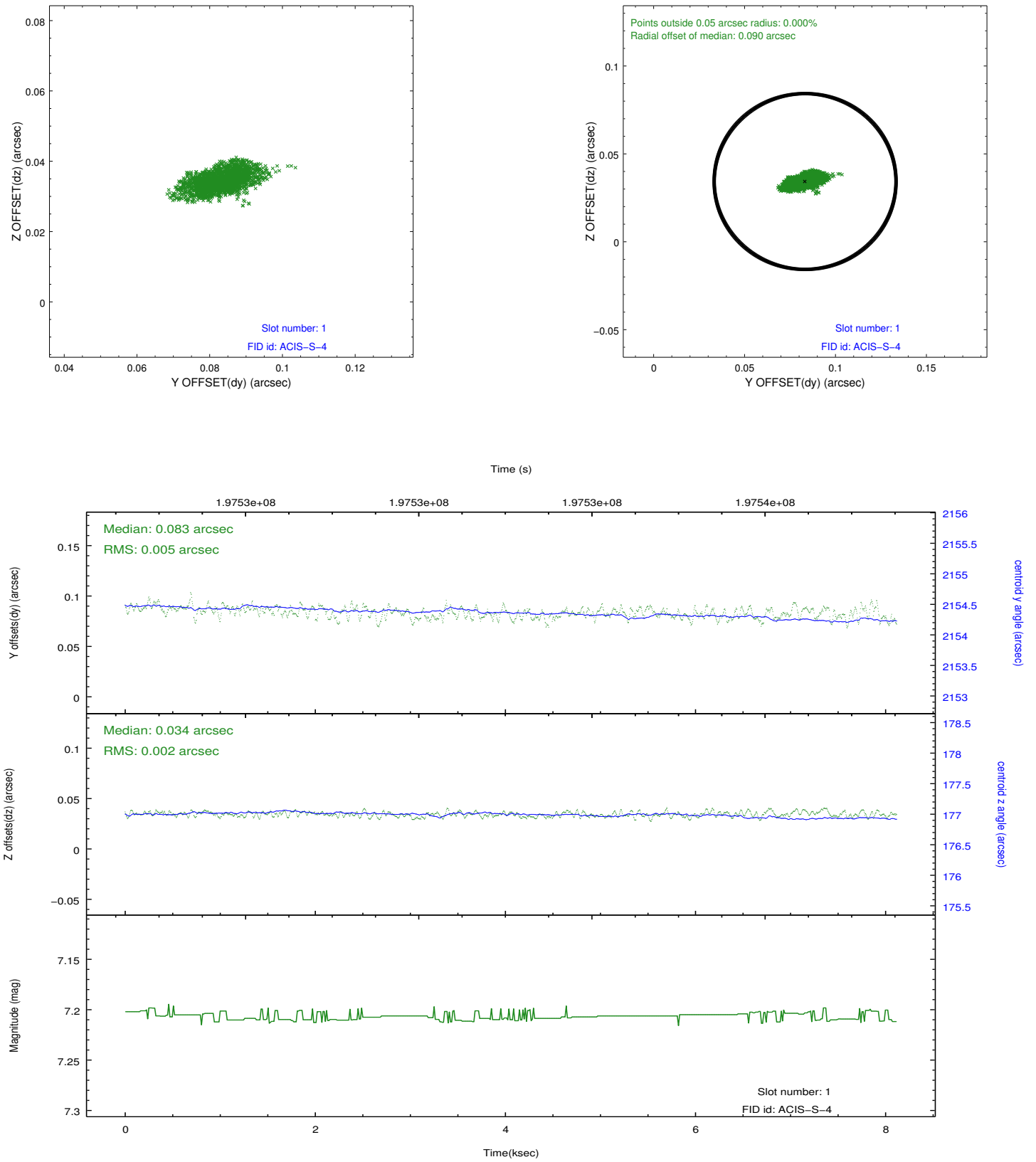


2.5 FID Slots

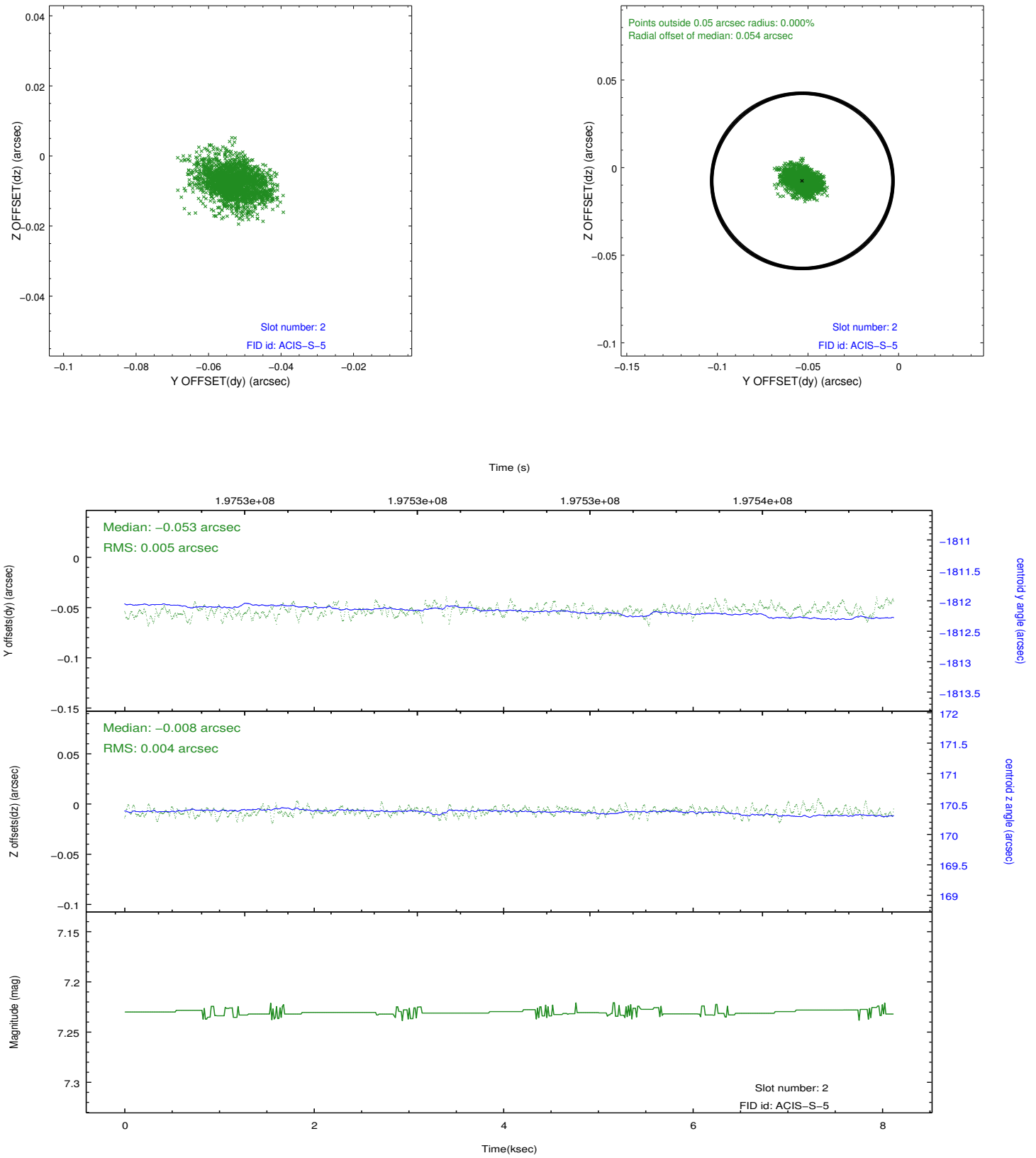
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.115

A.2 Comments

Window preference met.