

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1510 - L2 Version 3
Chandra X-Ray Center

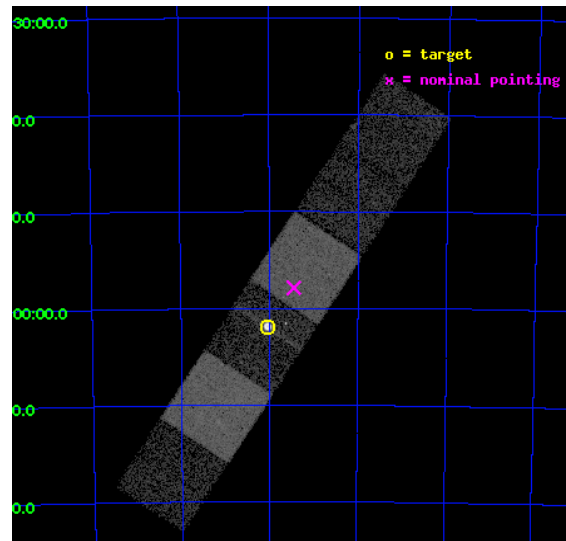
L2 Processing Date : Sep 4 2012

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

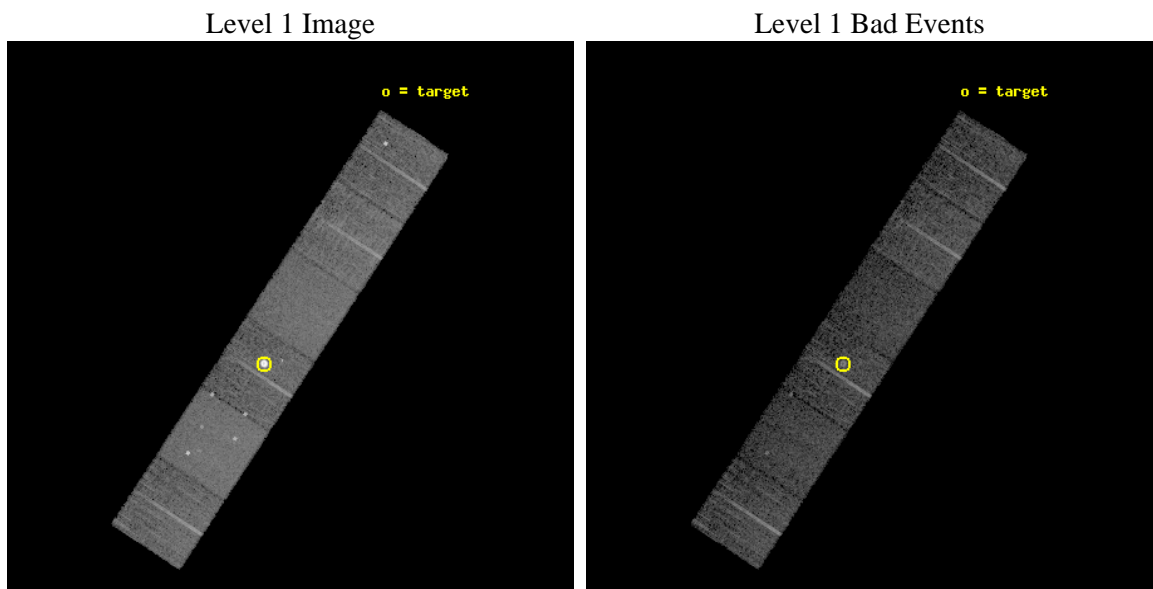
seq_num	590133	Sequence number
obs_id	1510	Observation id
title	ACIS CALIBRATION OBSERVATION OF THE SUPERNOVA REMNANT E0102-72 (DEC 2000)	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip S2, T=120, Offsets=5,0,0]	Source name
dtcycle	0	
cycle	P	events from which 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	15.860533486561	Nominal RA [deg]
dec_nom	-71.964653522298	Nominal Dec [deg]
roll_nom	303.29434115319	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7753.6000072062	Sum of GTIs [s]
livetime	7655.4192552575	Livetime [s]
ontime4	7753.6000072062	Sum of GTIs [s]
ontime5	7753.6000072062	Sum of GTIs [s]
ontime6	7753.6000072062	Sum of GTIs [s]
ontime7	7753.6000072062	Sum of GTIs [s]
ontime8	7753.6000072062	Sum of GTIs [s]
ontime9	7753.6000072062	Sum of GTIs [s]
l2events	105878	Number of level 2 events



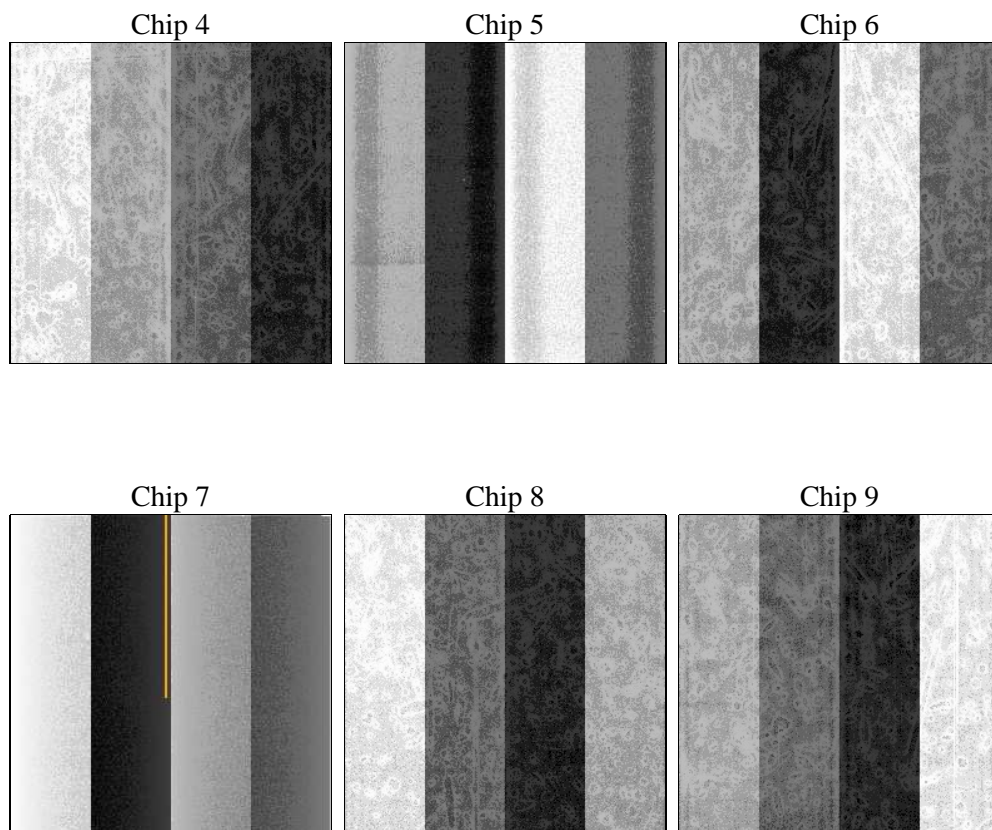
2 OBI

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	7753.6000072062	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime4	7753.6000072062	Sum of GTIs [s]
date	2012-09-04T06:15:04	Date and time of file creation	ontime5	7753.6000072062	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7753.6000072062	Sum of GTIs [s]
			ontime7	7753.6000072062	Sum of GTIs [s]
			ontime8	7753.6000072062	Sum of GTIs [s]
			ontime9	7753.6000072062	Sum of GTIs [s]
			l1events	369119	Number of level 1 events

2.1.4 Events

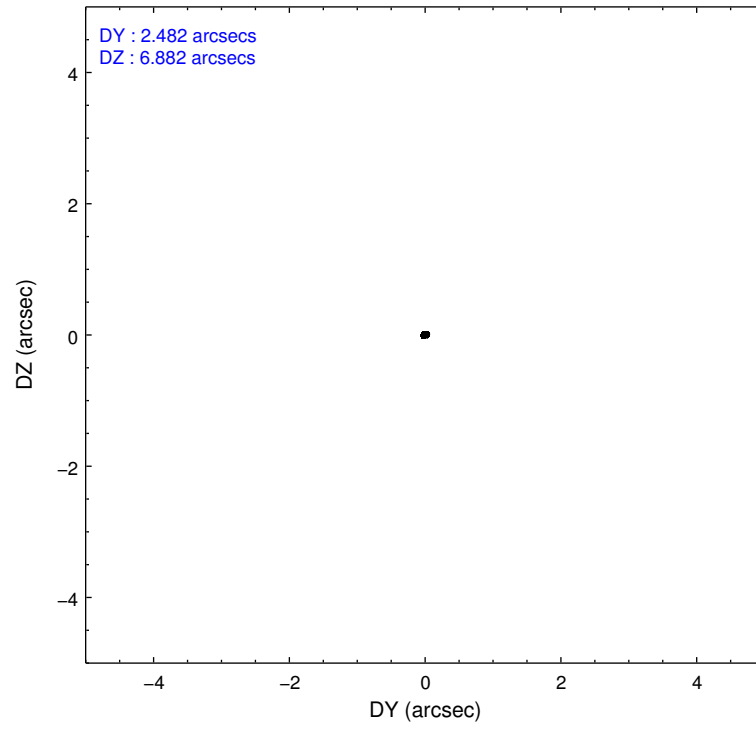
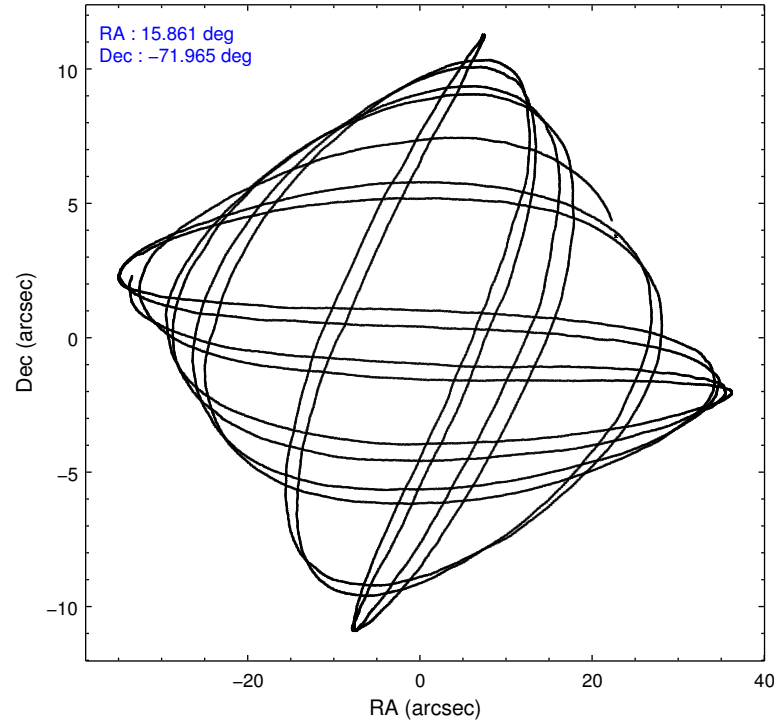
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	51081	68642	81773	58406	60588	48629	grade 0 events	2292	5010	34502	2779	3499	4545
rejected events	45592	34396	40631	32891	49299	40852		4%	7%	42%	4%	5%	9%
rejected %	89%	50%	49%	56%	81%	84%	grade 1 events	29	294	336	58	30	43
								0%	0%	0%	0%	0%	0%
							grade 2 events	1301	10538	3341	5036	2418	1049
								2%	15%	4%	8%	3%	2%
							grade 3 events	494	1519	1098	2407	1209	541
								0%	2%	1%	4%	1%	1%
							grade 4 events	481	1482	1018	2362	1079	553
								0%	2%	1%	4%	1%	1%
							grade 5 events	1565	4967	1977	5516	2402	1881
								3%	7%	2%	9%	3%	3%
							grade 6 events	926	15724	1219	12954	3095	1093
								1%	22%	1%	22%	5%	2%
							grade 7 events	43993	29108	38282	27294	46856	38924
								86%	42%	46%	46%	77%	80%

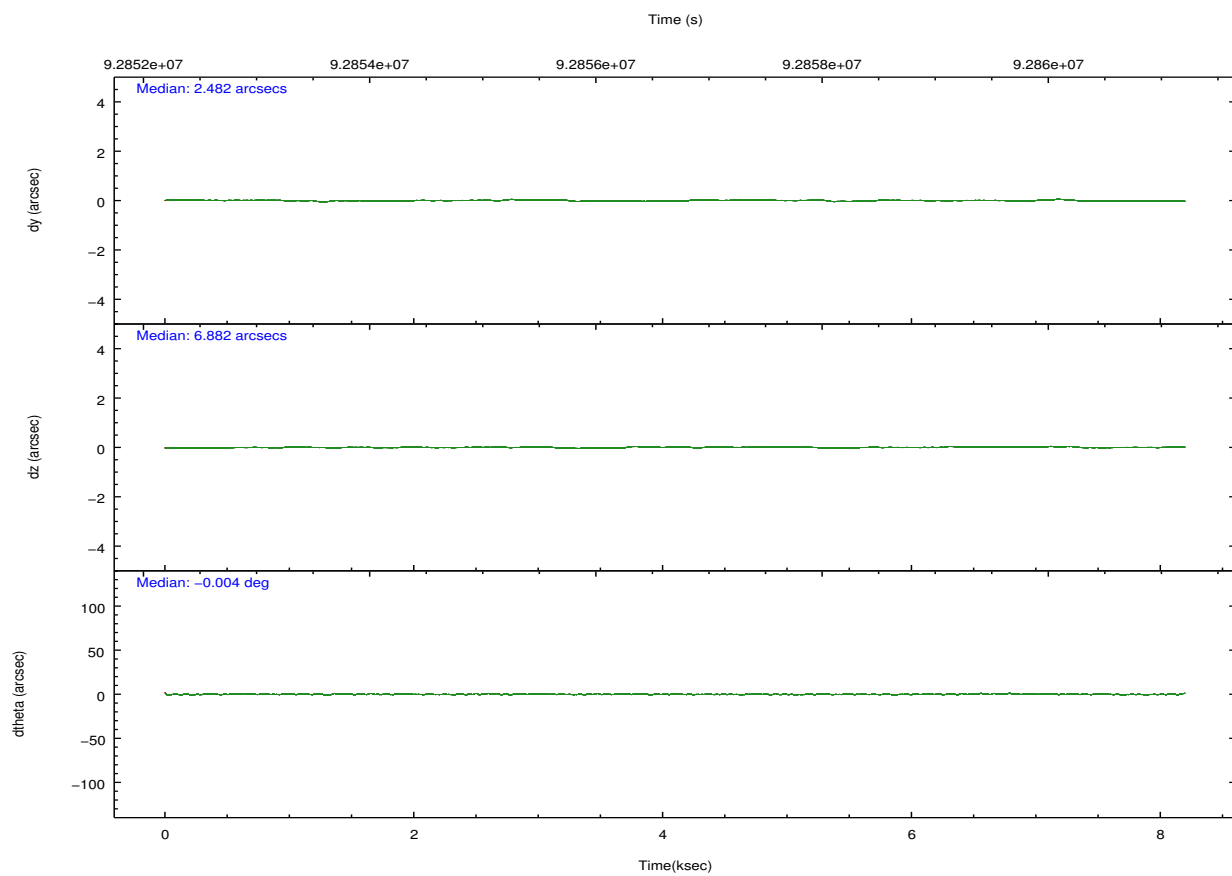
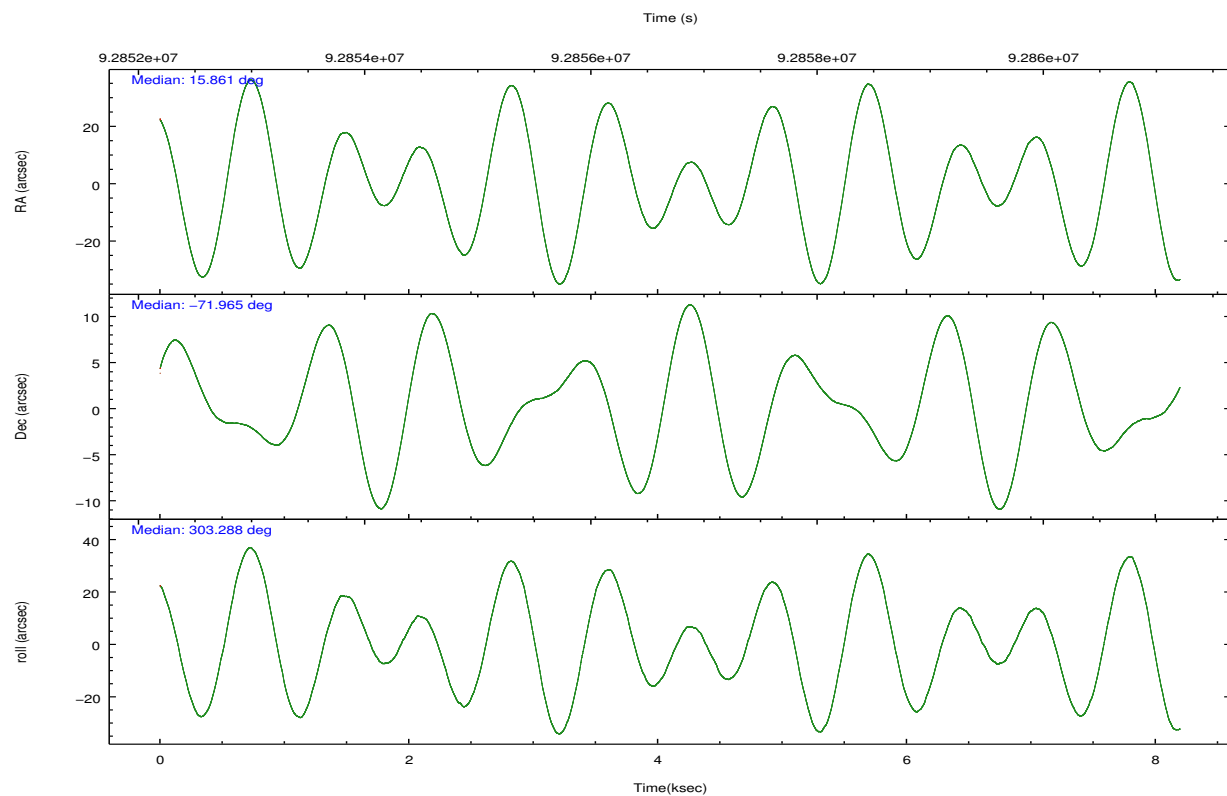
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	15.781446	15.86053348656132
[deg] Pointing Dec	-71.952581	-71.96465352229774
[deg] Pointing Roll	303.062517	303.2943411531855
[s] Window start time (MET)	92016064.184000	92016064.184000
[s] Window stop time (MET)	94608064.184000	94608064.184000
[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)	92852798.184000	92852422.35579699
Observation start date	2000-12-10T16:25:34	2000-12-10T16:20:22
[s] Observation end time (MET)	92860798.184000	92860931.906122
Observation end date	2000-12-10T18:38:54	2000-12-10T18:42:11
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



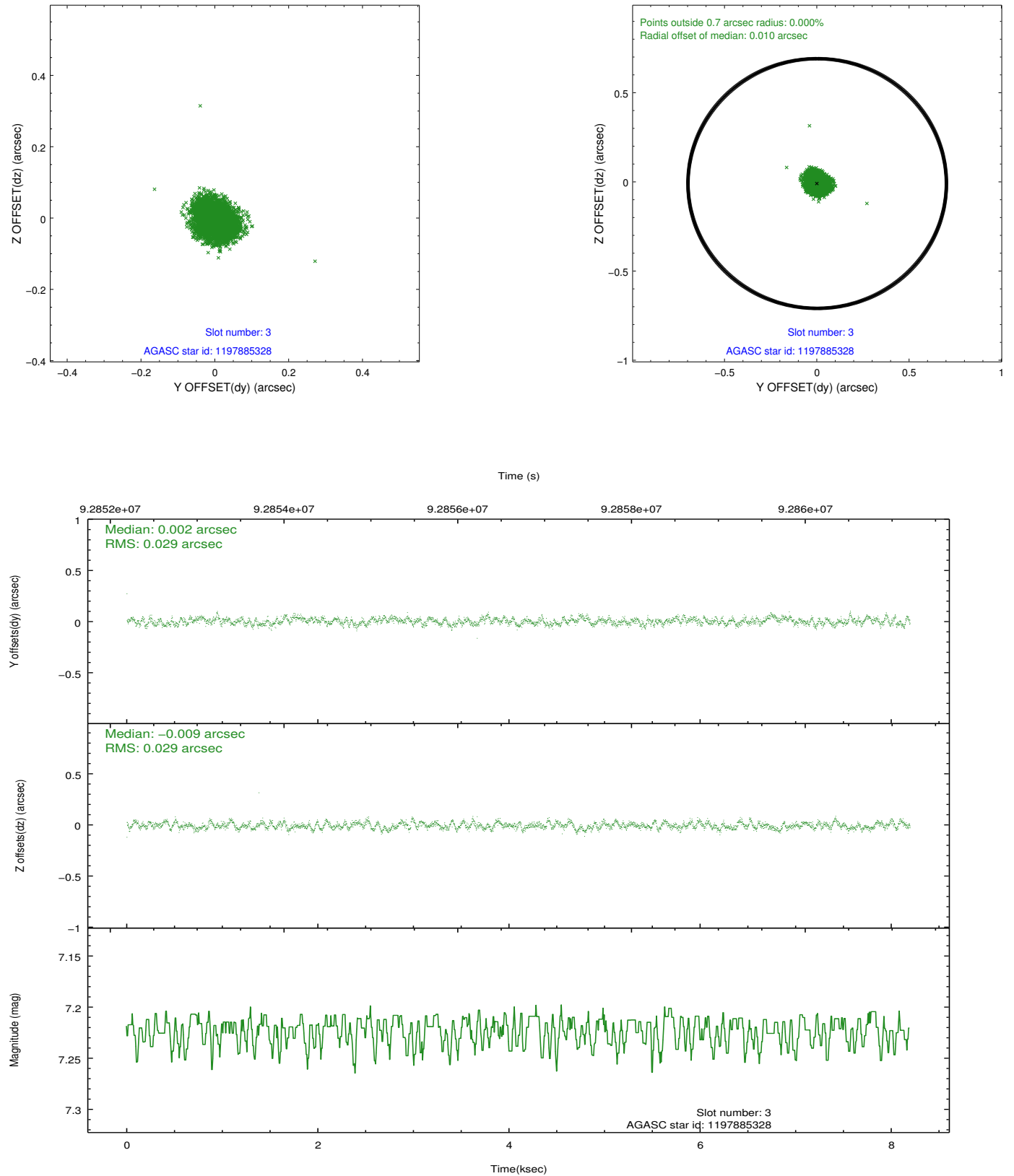


Slot Statistics

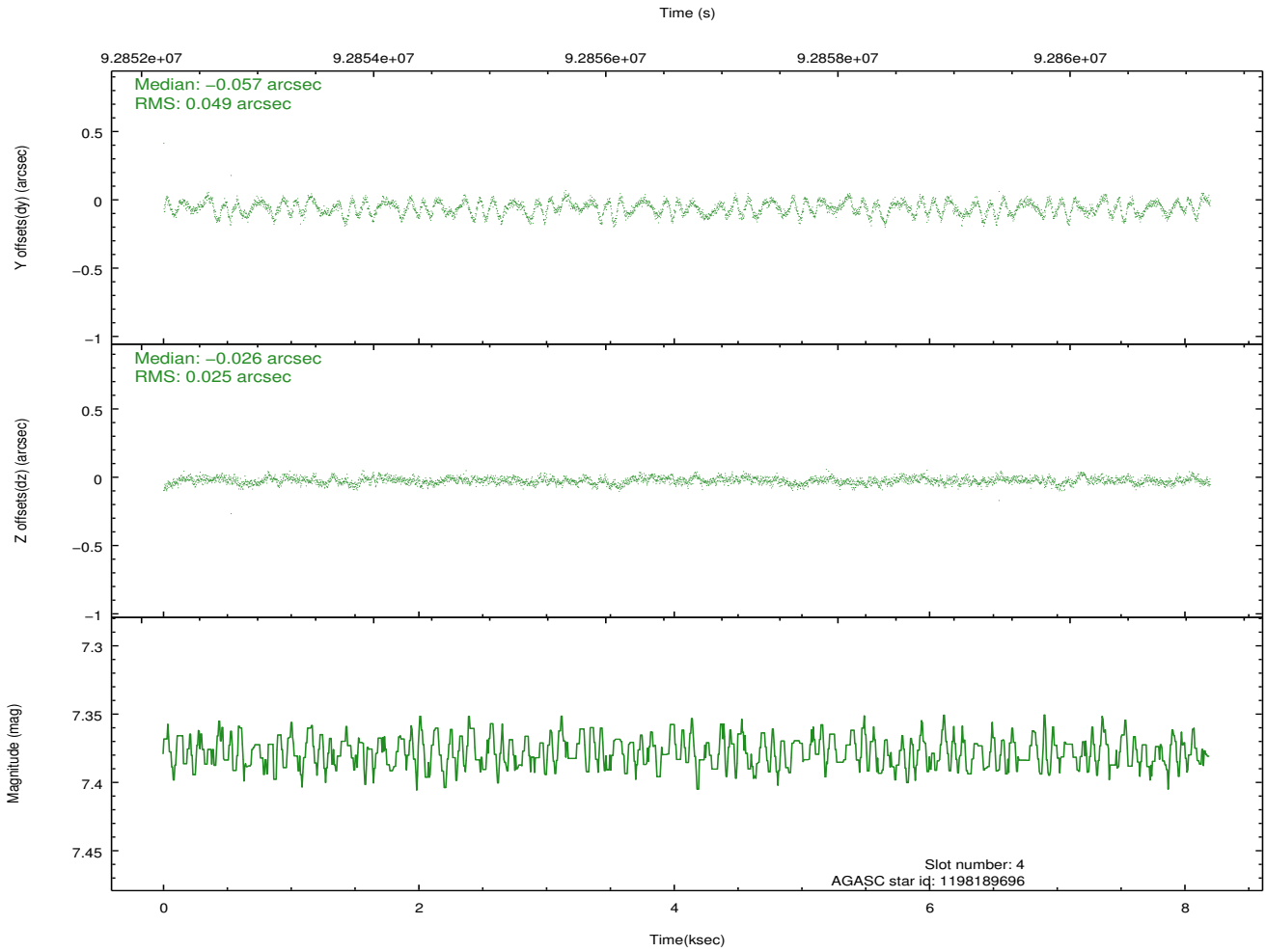
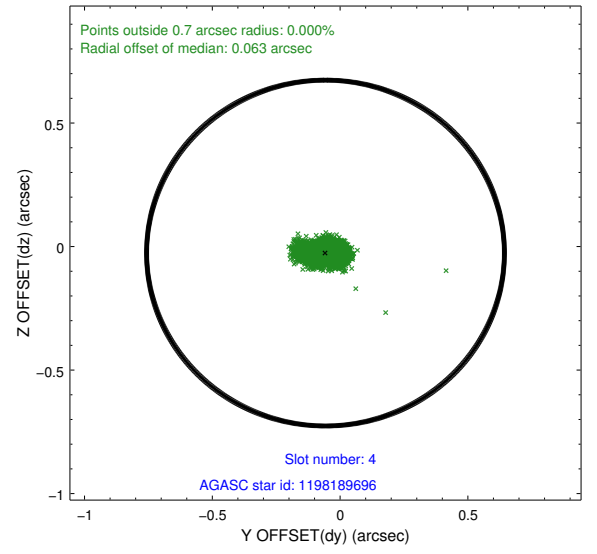
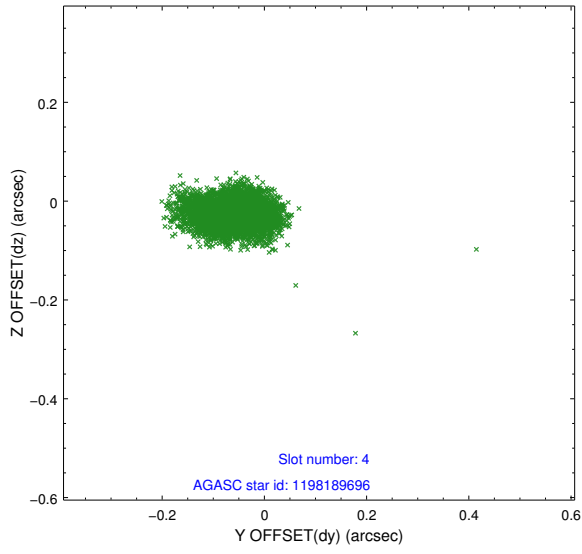
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2000	-0.023	-0.004	0.007	0.011	0.000000	0.000000	-755.14	-1728.04
1	FID	ACIS-S-4	7.20	2000	-0.022	0.012	0.005	0.010	0.000000	0.000000	2157.84	179.74
2	FID	ACIS-S-5	7.23	2000	0.013	0.001	0.006	0.012	0.000000	0.000000	-1807.06	174.19
3	GUIDE	1197885328	7.22	3999	0.002	-0.009	0.045	0.069	16.283090	-71.733943	-349.09	902.39
4	GUIDE	1198189696	7.38	3999	-0.057	-0.026	0.058	0.094	15.223750	-72.697522	1924.11	-1964.81
5	GUIDE	1197750936	7.55	3998	-0.088	-0.050	0.050	0.075	15.387940	-71.549550	-1459.09	414.14
6	GUIDE	1197884536	8.49	3999	0.021	0.071	0.069	0.108	17.160729	-71.835289	504.76	1517.98
7	GUIDE	1197884712	8.30	3997	0.127	0.013	0.055	0.089	16.087398	-72.252690	1089.49	-308.15

2.4 Star Slots

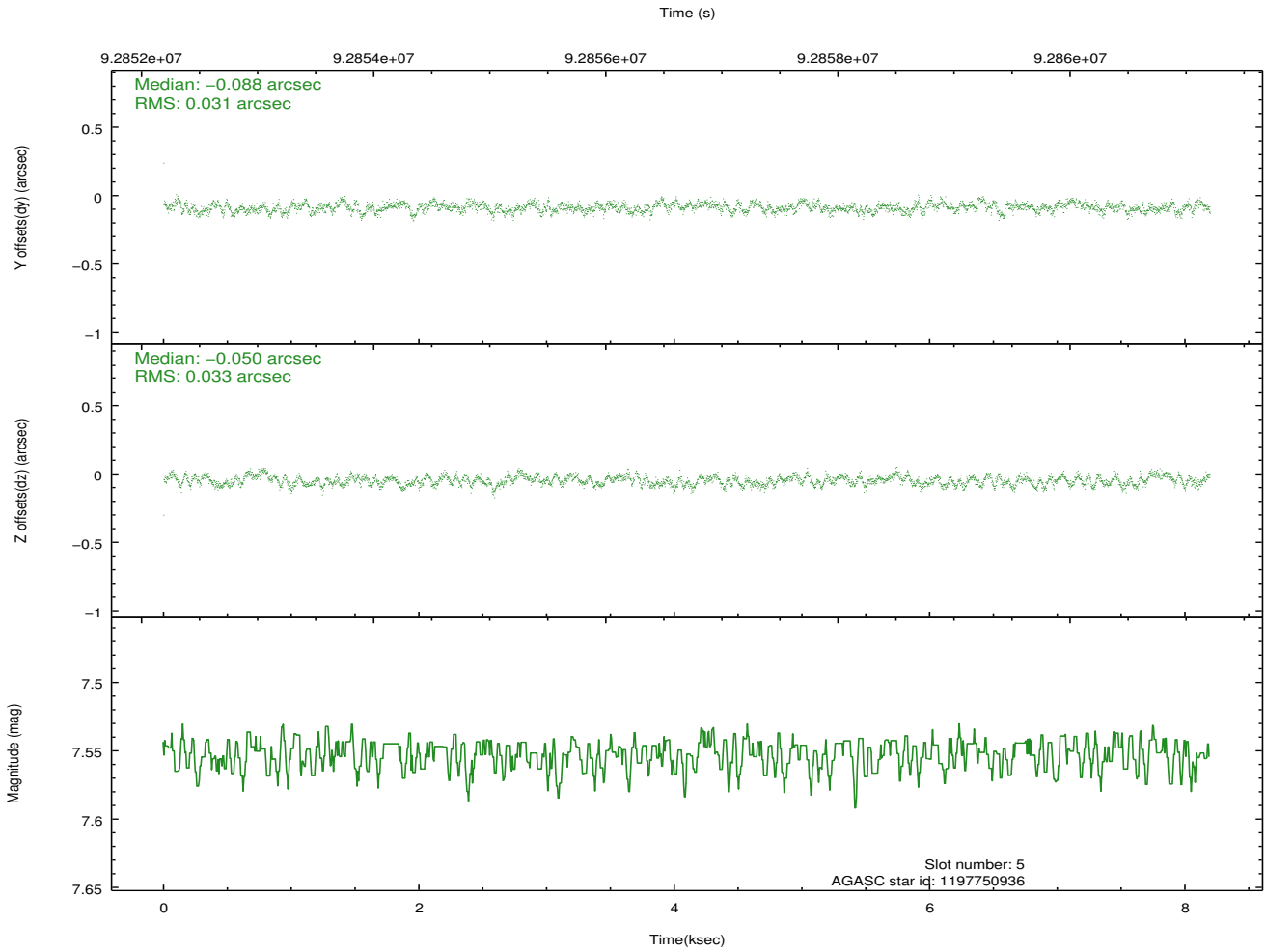
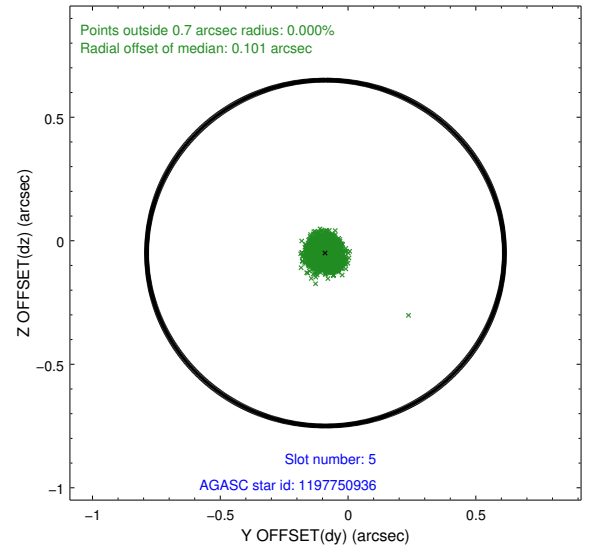
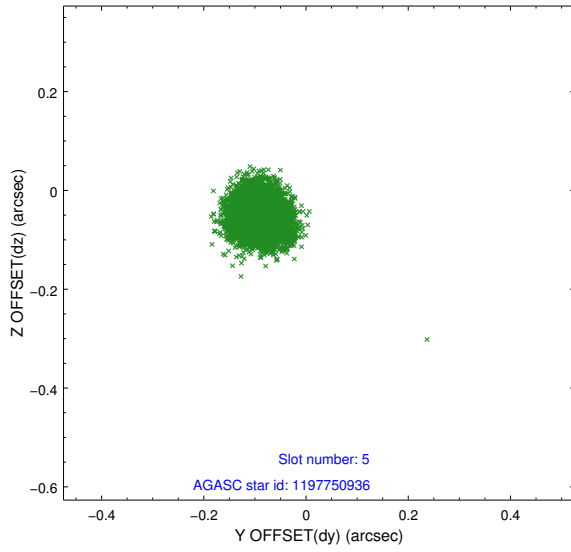
2.4.1 Slot 3



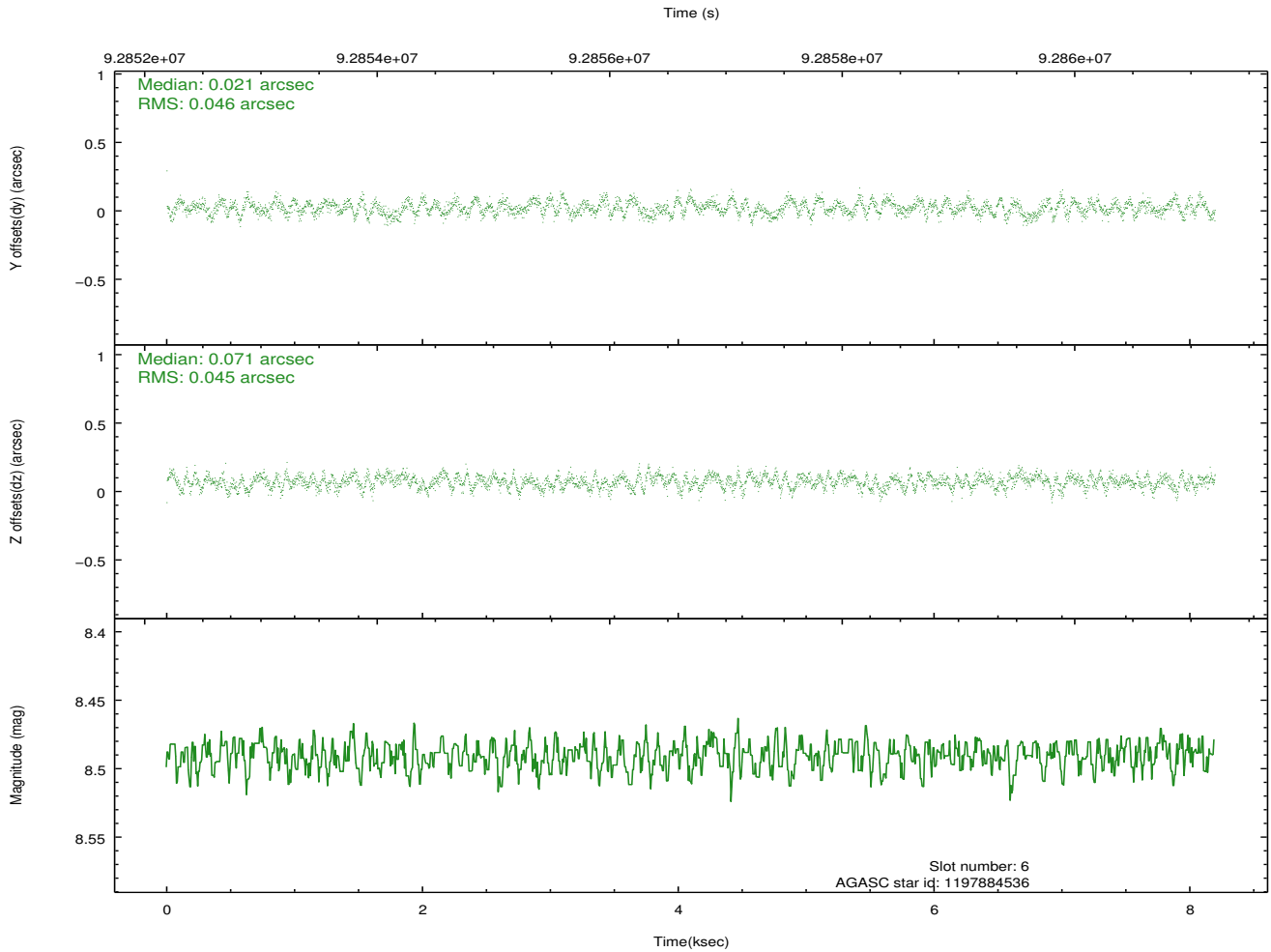
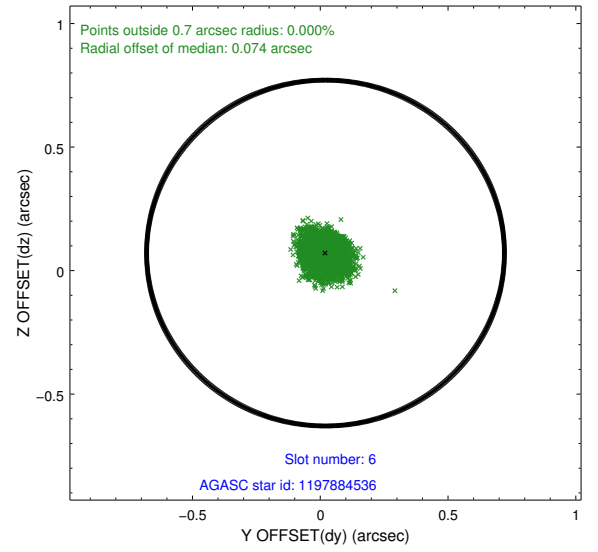
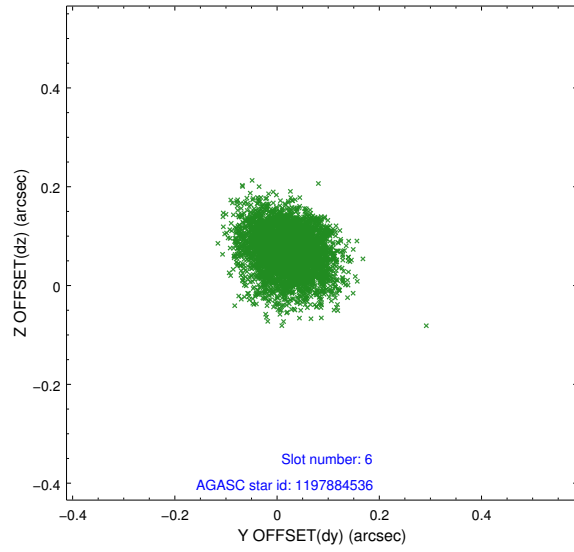
2.4.2 Slot 4



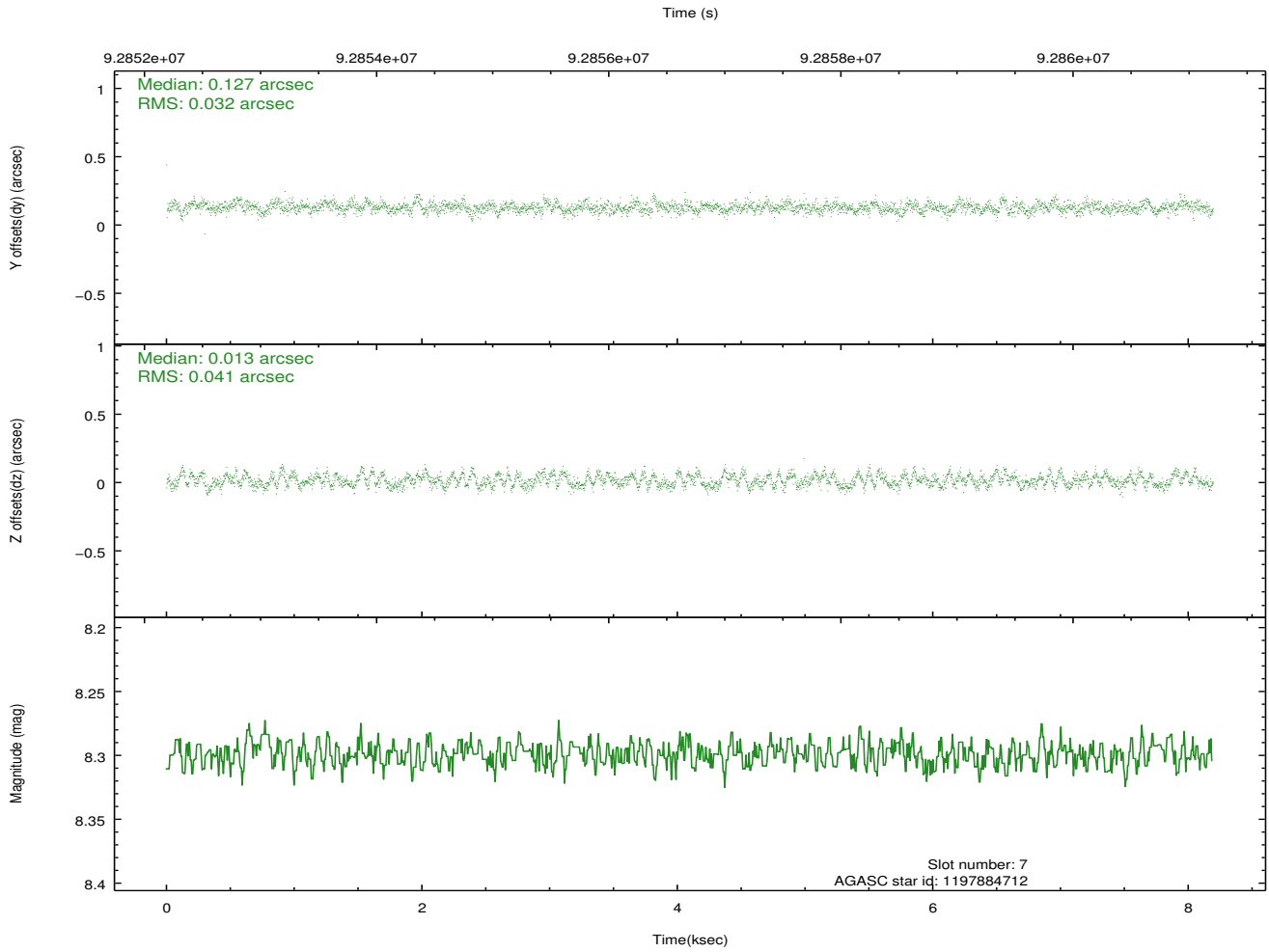
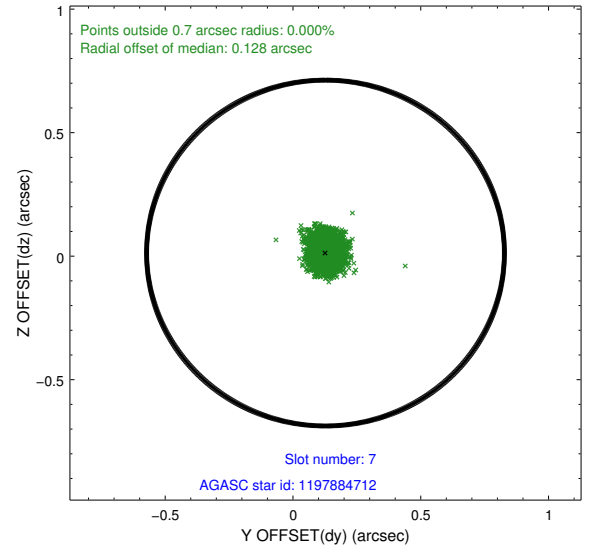
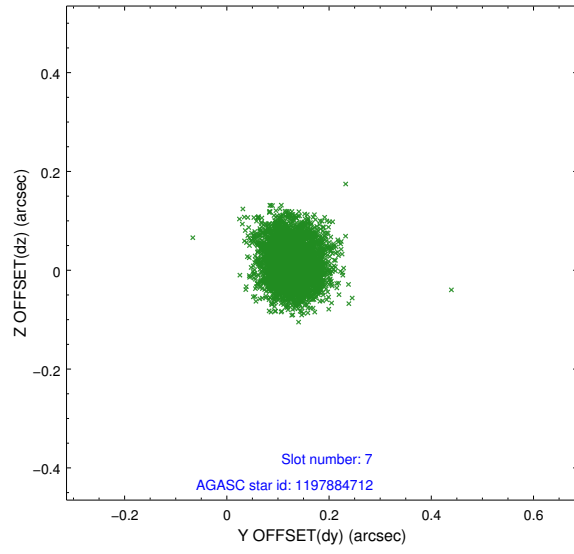
2.4.3 Slot 5



2.4.4 Slot 6

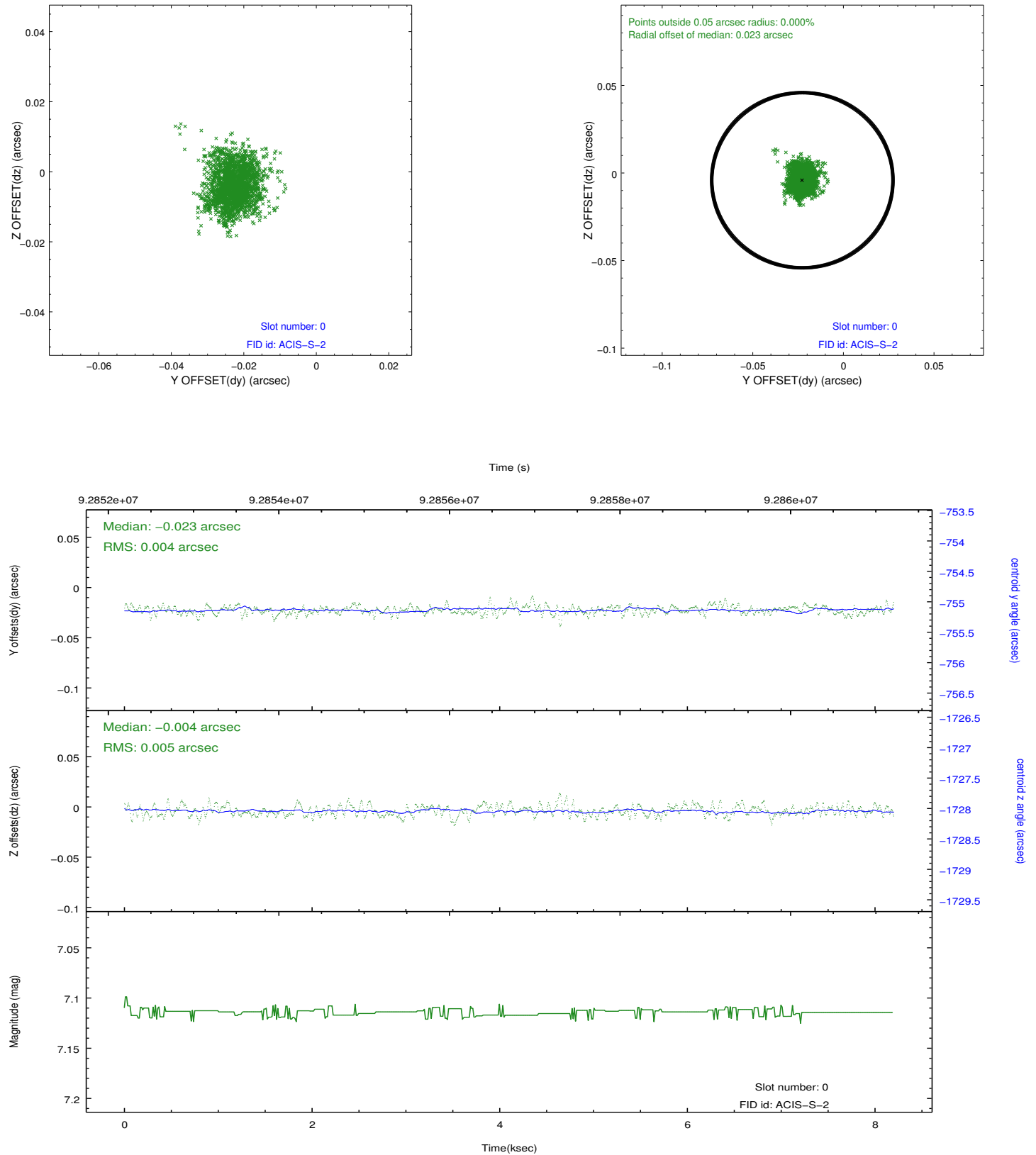


2.4.5 Slot 7

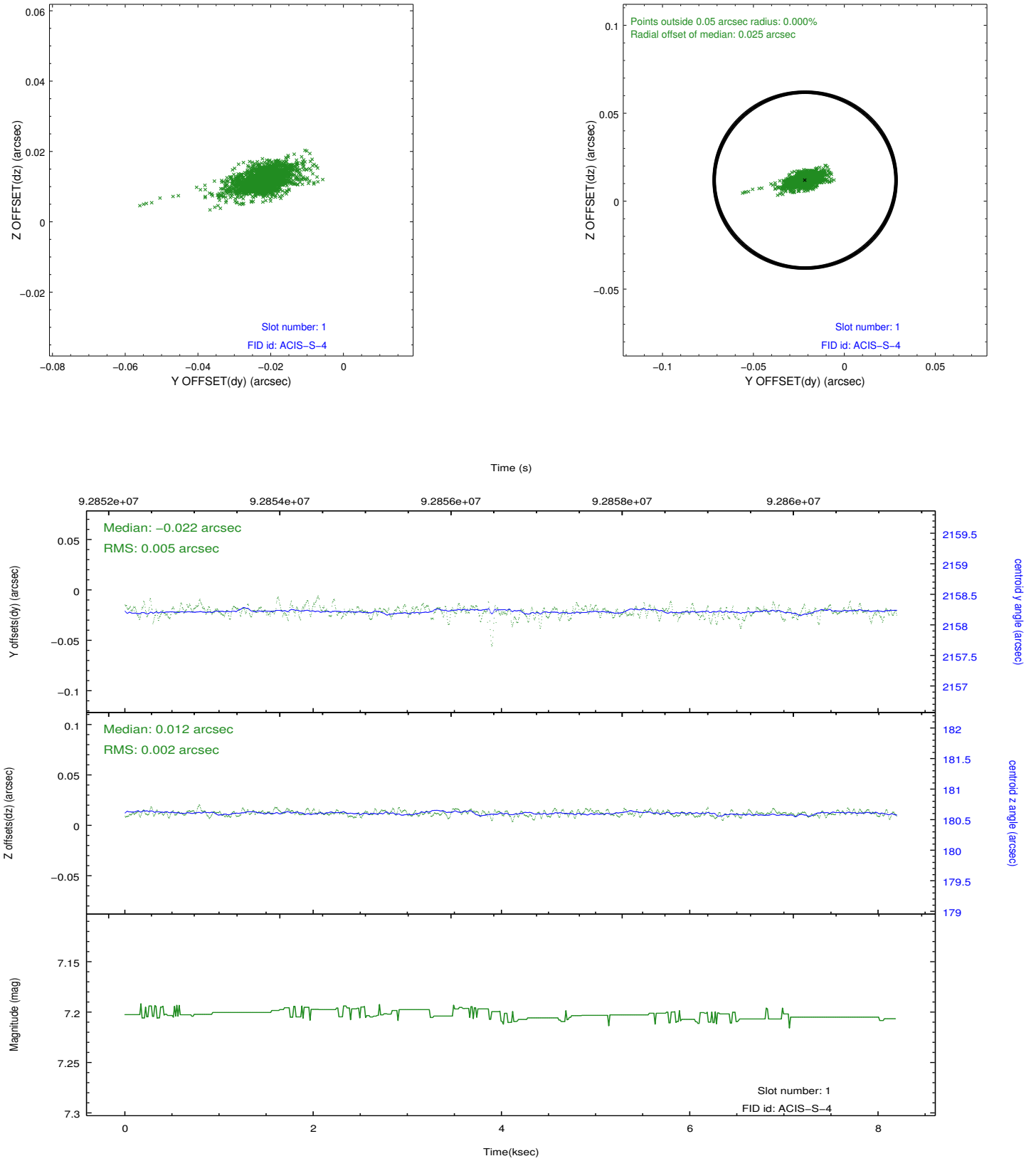


2.5 FID Slots

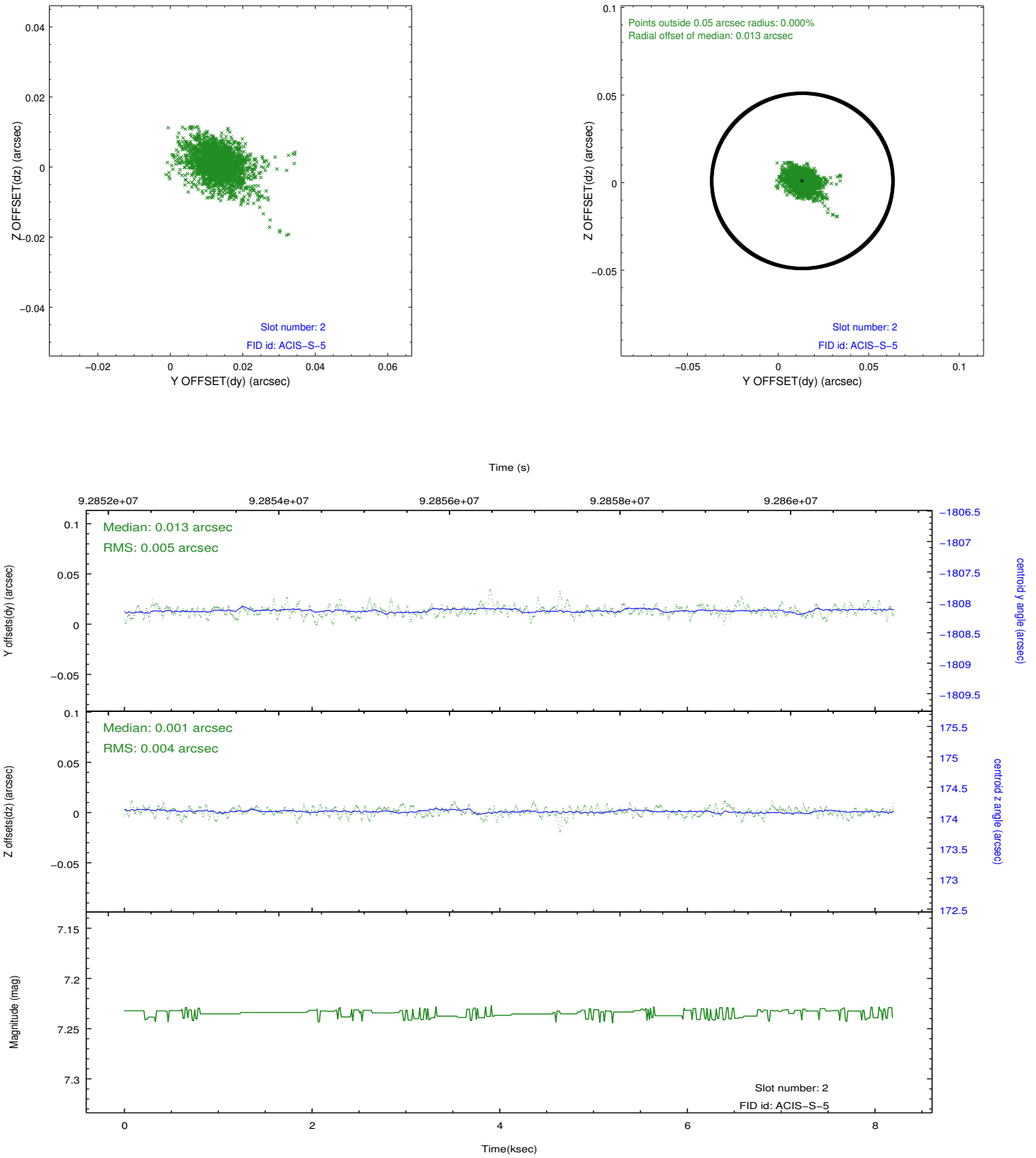
2.5.1 Slot 0



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)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756

A.2 Comments

Window preference met.