

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 6076 - L2 Version 3
Chandra X-Ray Center

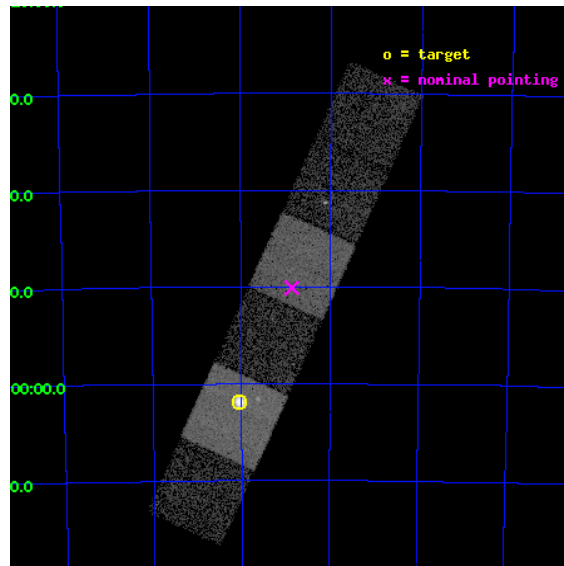
L2 Processing Date : Dec 14 2012

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

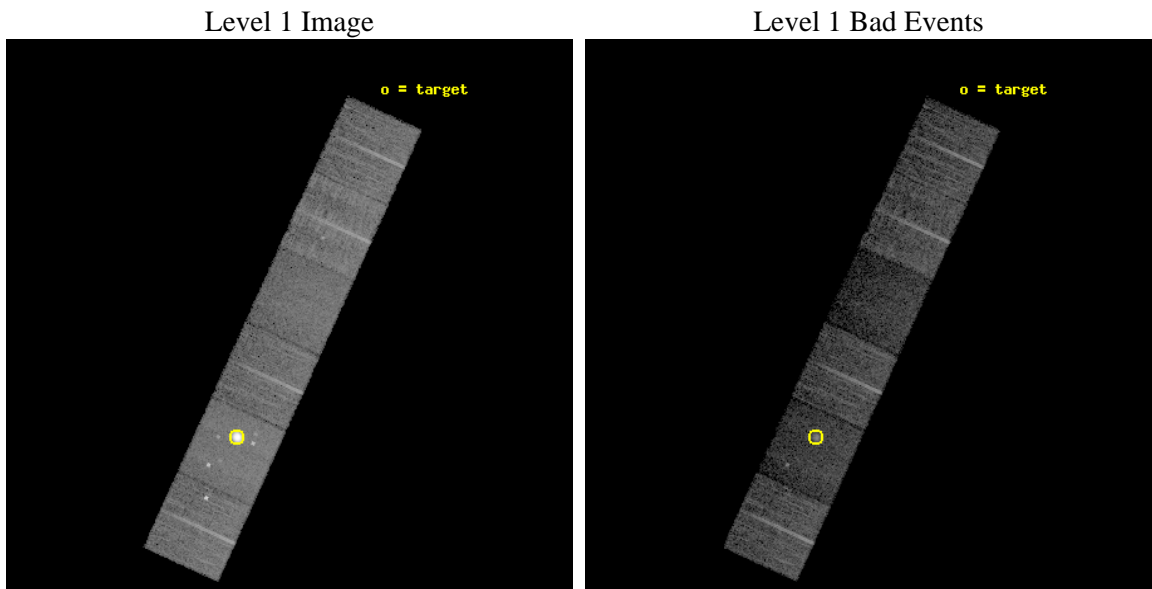
seq_num	590403	Sequence number
obs_id	6076	Observation id
title	AO6A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S1,-120,13.29,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.714500814533	Nominal RA [deg]
dec_nom	-71.834746707245	Nominal Dec [deg]
roll_nom	294.49589055218	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7951.9999703765	Sum of GTIs [s]
livetime	7851.3069586321	Livetime [s]
ontime4	7948.7590000927	Sum of GTIs [s]
ontime5	7951.9999703765	Sum of GTIs [s]
ontime6	7951.9999703765	Sum of GTIs [s]
ontime7	7951.9999703765	Sum of GTIs [s]
ontime8	7951.9999703765	Sum of GTIs [s]
ontime9	7951.9999703765	Sum of GTIs [s]
l2events	111066	Number of level 2 events



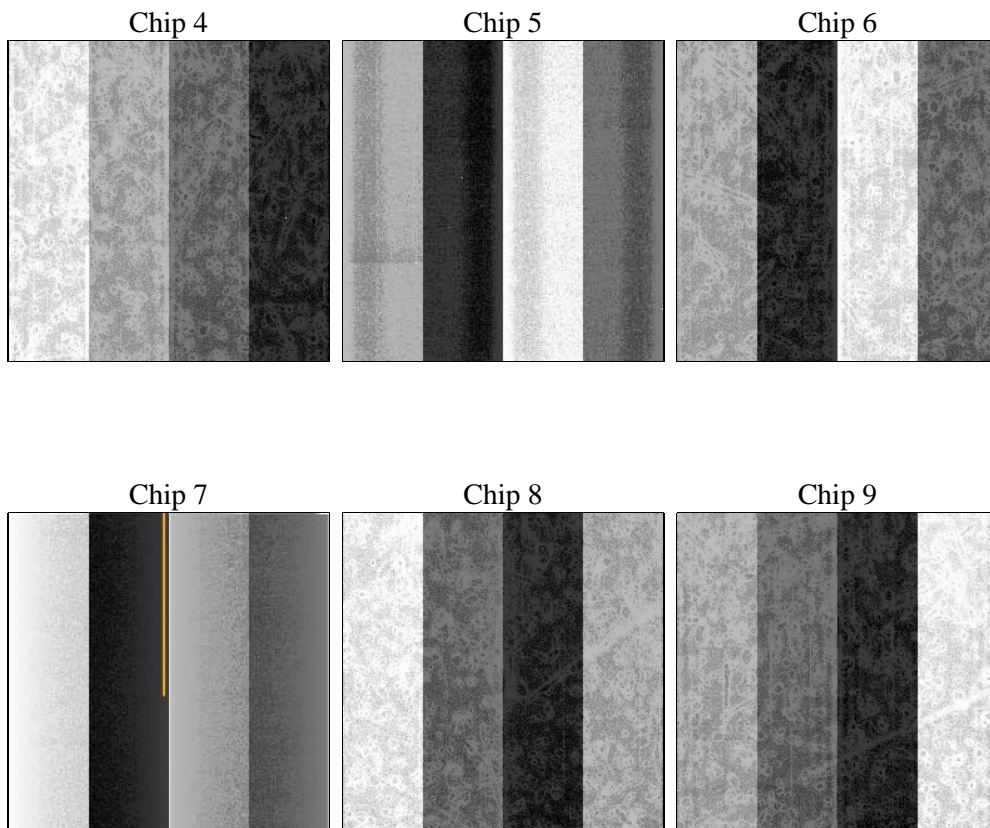
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	7951.9999703765	Sum of GTIs [s]
caldsver	4.5.5	 	ontime4	7948.7590000927	Sum of GTIs [s]
date	2012-12-14T20:39:23	Date and time of file creation	ontime5	7951.9999703765	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7951.9999703765	Sum of GTIs [s]
			ontime7	7951.9999703765	Sum of GTIs [s]
			ontime8	7951.9999703765	Sum of GTIs [s]
			ontime9	7951.9999703765	Sum of GTIs [s]
			l1events	364727	Number of level 1 events

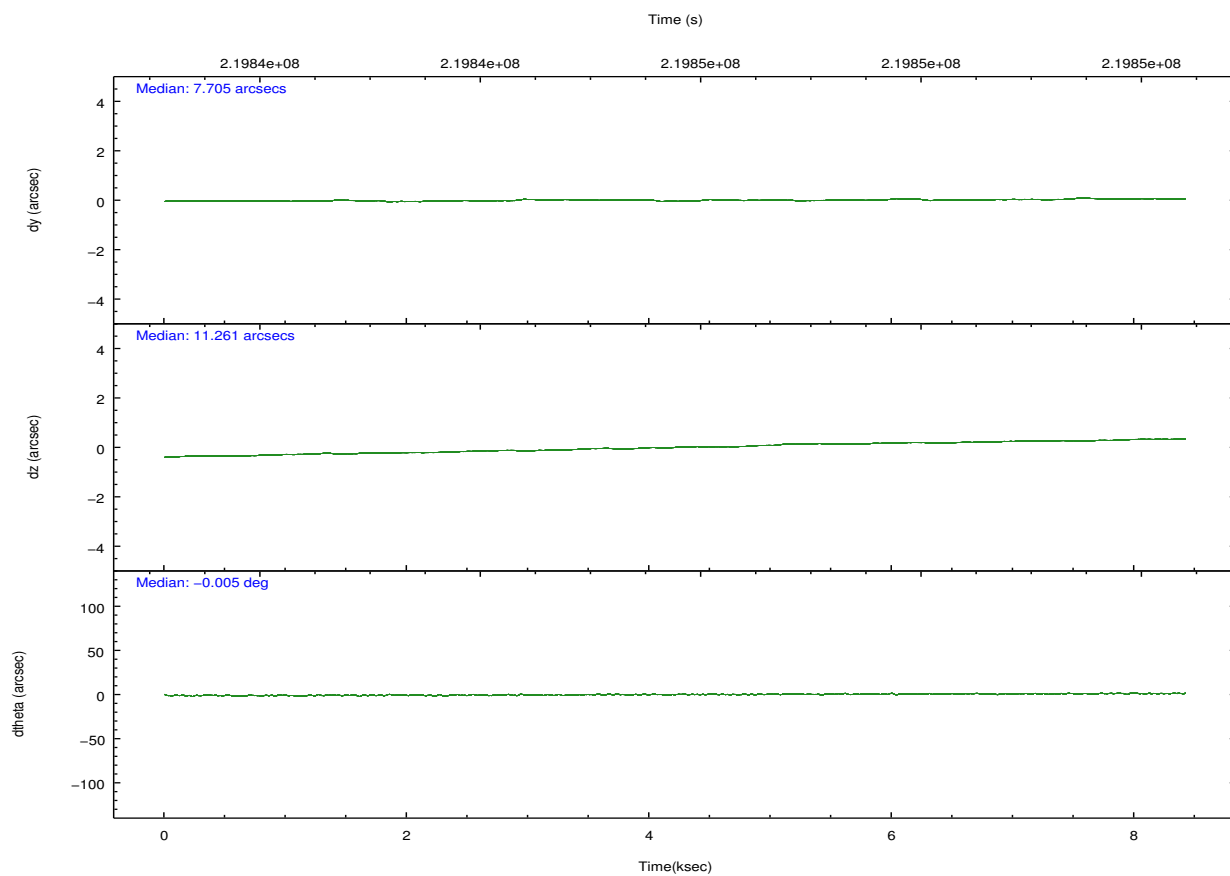
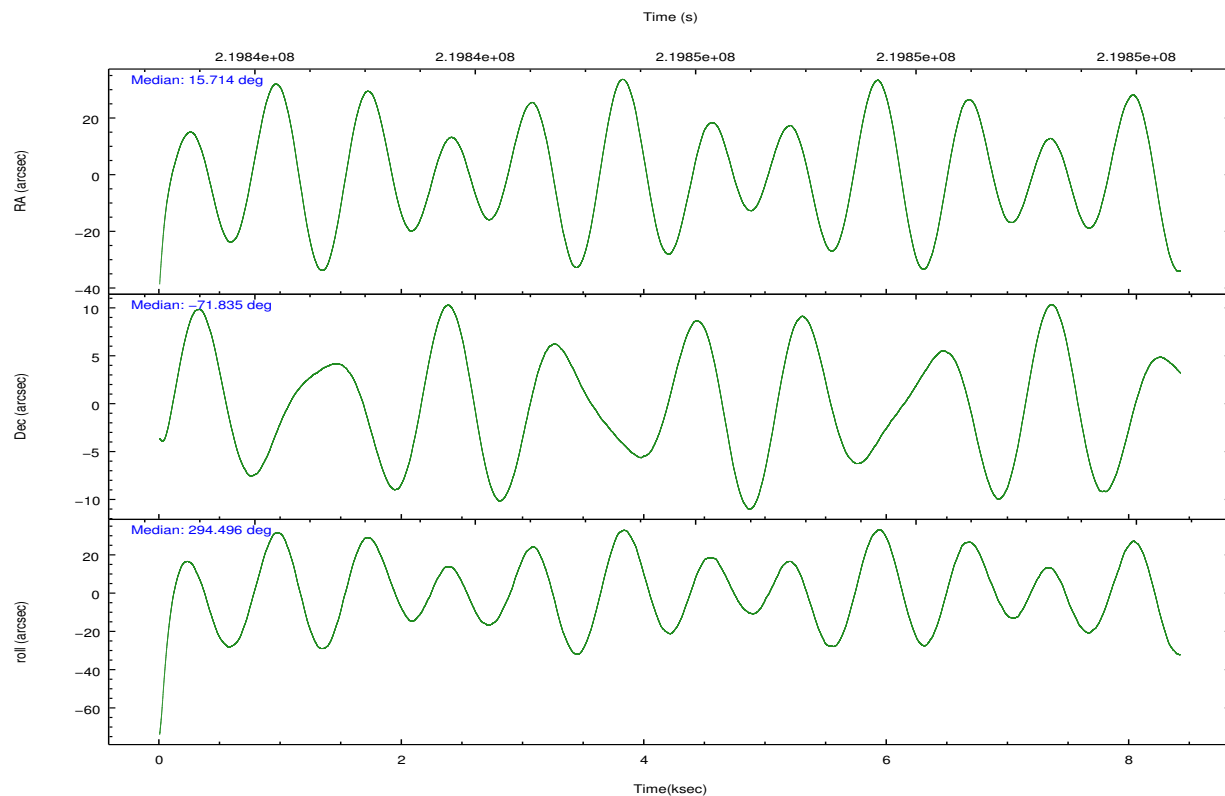
2.1.4 Events

	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	57705	105884	48279	44845	60779	47235	grade 0 events	4584	25609	1977	2260	3837	1791
rejected events	49959	28514	43181	22824	46798	42351		7%	24%	4%	5%	6%	3%
rejected %	86%	26%	89%	50%	76%	89%	grade 1 events	60	399	21	40	38	24
								0%	0%	0%	0%	0%	0%
							grade 2 events	1186	21647	1008	4526	3257	1026
								2%	20%	2%	10%	5%	2%
							grade 3 events	589	5394	560	2089	1507	556
								1%	5%	1%	4%	2%	1%
							grade 4 events	569	5583	537	2166	1441	535
								0%	5%	1%	4%	2%	1%
							grade 5 events	1567	5599	1611	4849	2554	1839
								2%	5%	3%	10%	4%	3%
							grade 6 events	821	19208	1017	10995	3942	981
								1%	18%	2%	24%	6%	2%
							grade 7 events	48329	22445	41548	17920	44203	40483
								83%	21%	86%	39%	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	15.642791	15.71450081453333	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.819267	-71.83474670724486	Alternating exposures requested	N	N
[deg] Pointing Roll	294.271184	294.4958905521841	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	220838464.184000	220838464.184000			
[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)	219841980.184000	219840899.45067			
Observation start date	2004-12-19T11:11:56	2004-12-19T10:54:59			
[s] Observation end time (MET)	219849980.184000	219850114.20109			
Observation end date	2004-12-19T13:25:16	2004-12-19T13:28:34			
Read mode	TIMED	TIMED			

2.3 Aspect

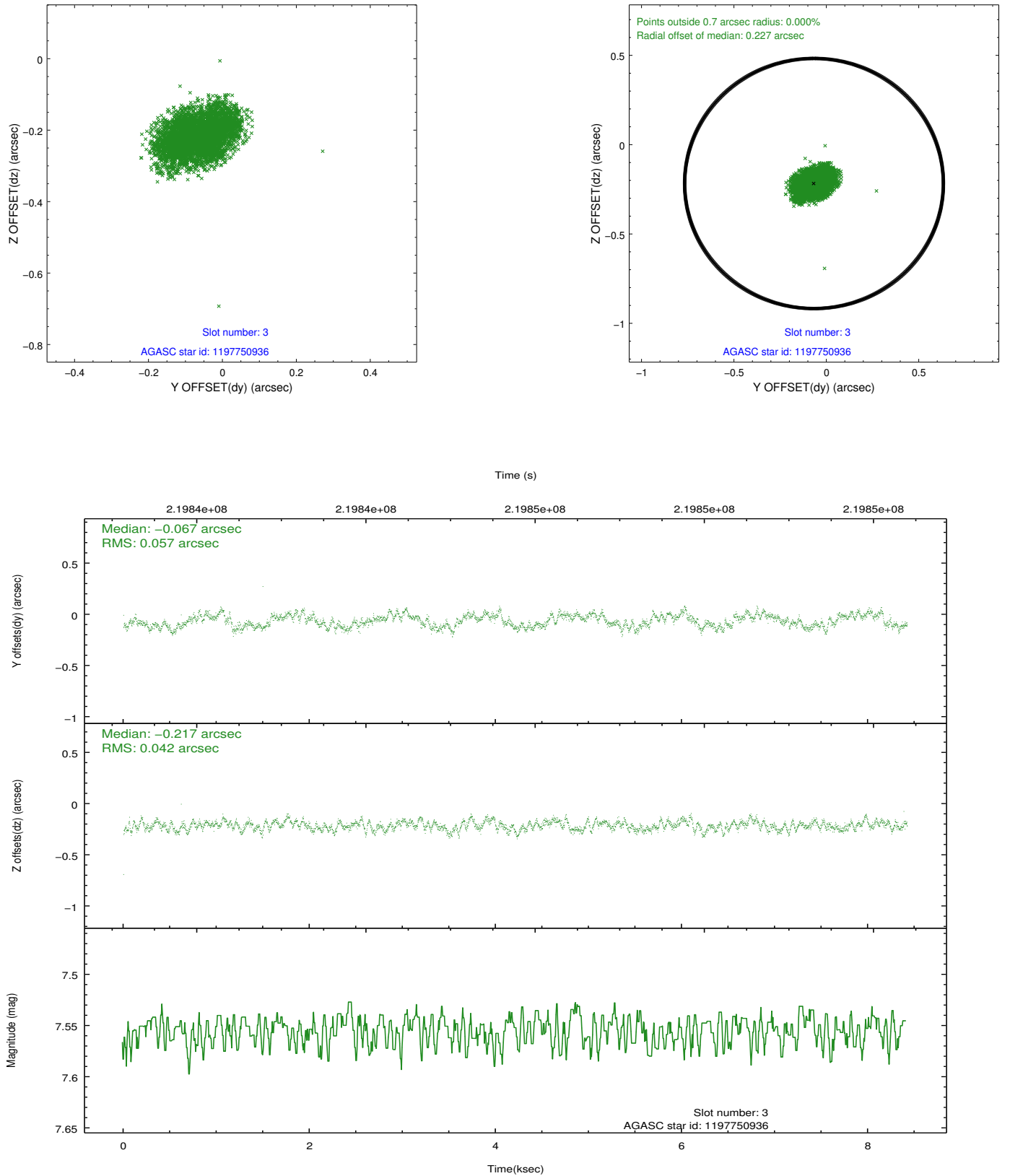


Slot Statistics

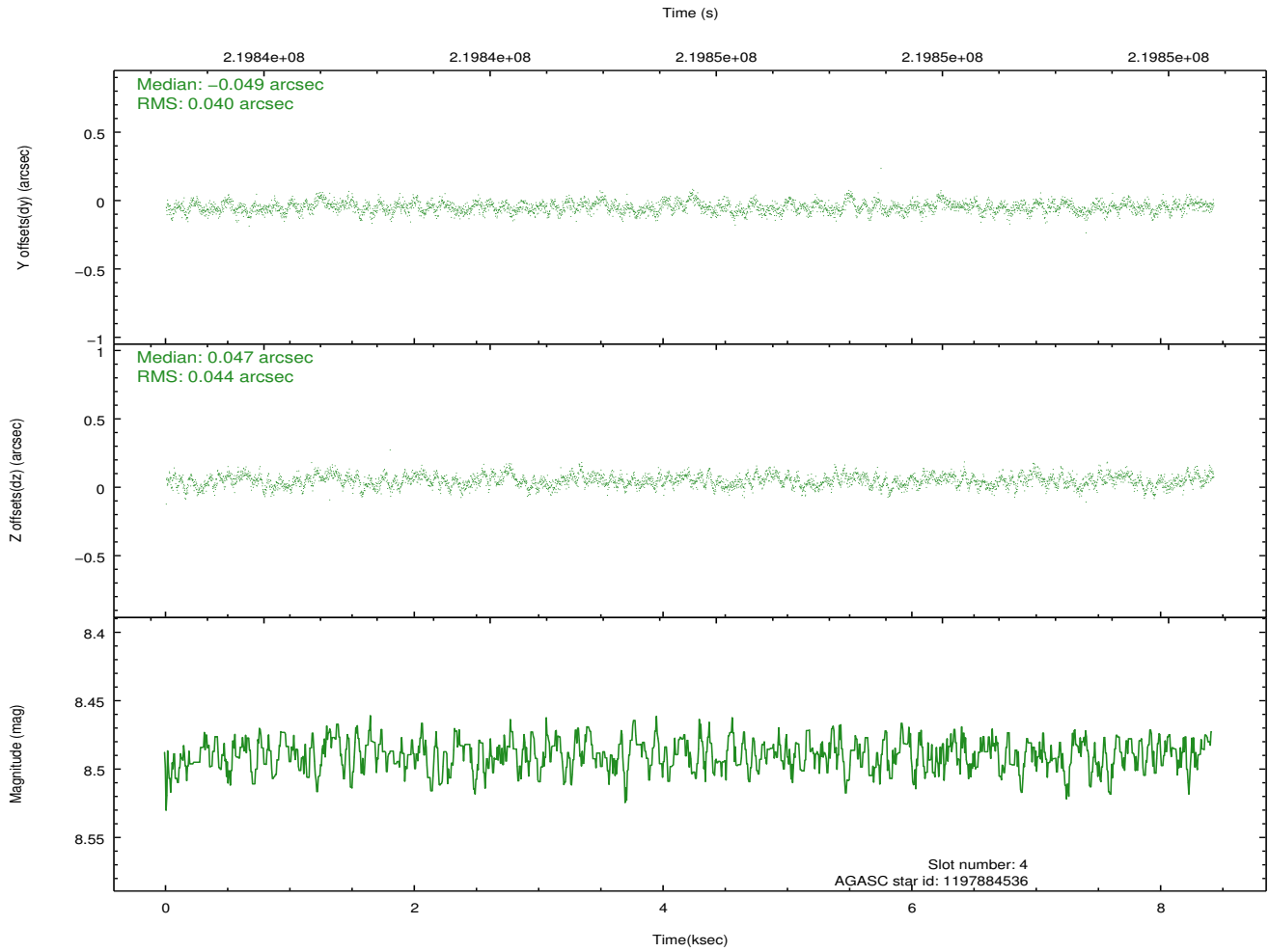
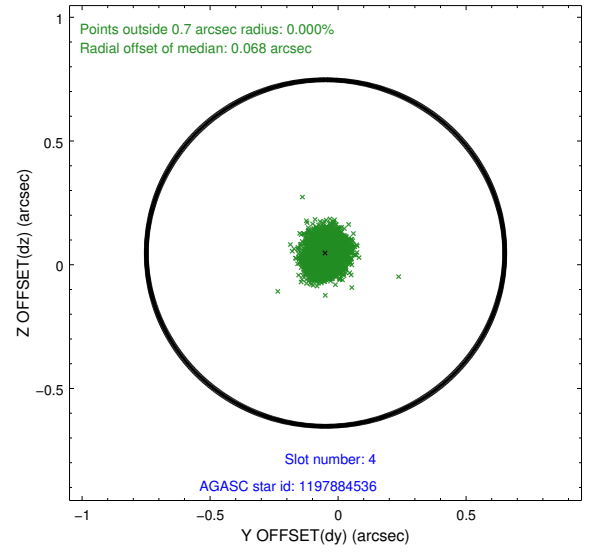
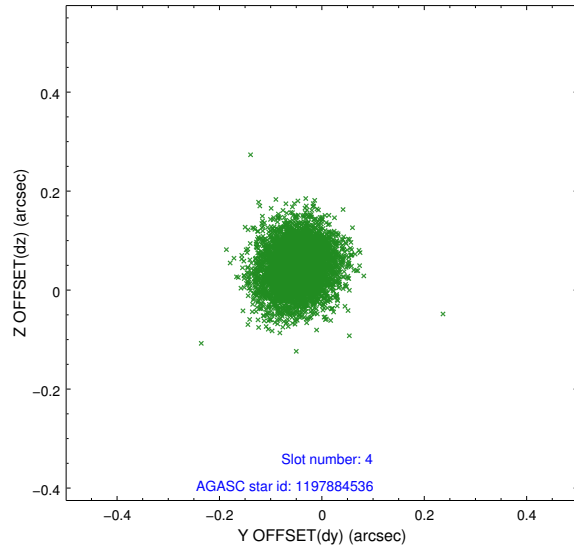
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2054	-0.032	-0.008	0.009	0.014	0.000000	0.000000	-760.48	-1732.55
1	FID	ACIS-S-4	7.20	2054	0.081	0.018	0.008	0.013	0.000000	0.000000	2152.58	175.31
2	FID	ACIS-S-5	7.23	2054	-0.079	-0.001	0.007	0.012	0.000000	0.000000	-1812.55	169.66
3	GUIDE	1197750936	7.55	4107	-0.067	-0.217	0.076	0.117	15.387940	-71.549550	-1003.33	134.13
4	GUIDE	1197884536	8.49	4109	-0.049	0.047	0.064	0.103	17.160729	-71.835289	772.52	1520.58
5	GUIDE	1197884712	8.31	4108	0.140	0.102	0.060	0.097	16.087398	-72.252690	1625.43	-196.70
6	GUIDE	1197885104	9.36	4044	0.133	0.048	0.111	0.179	17.845067	-72.189368	2252.94	1644.10
7	GUIDE	1197750896	9.81	4102	-0.158	0.020	0.106	0.174	12.910875	-71.532544	-2156.11	-2443.20

2.4 Star Slots

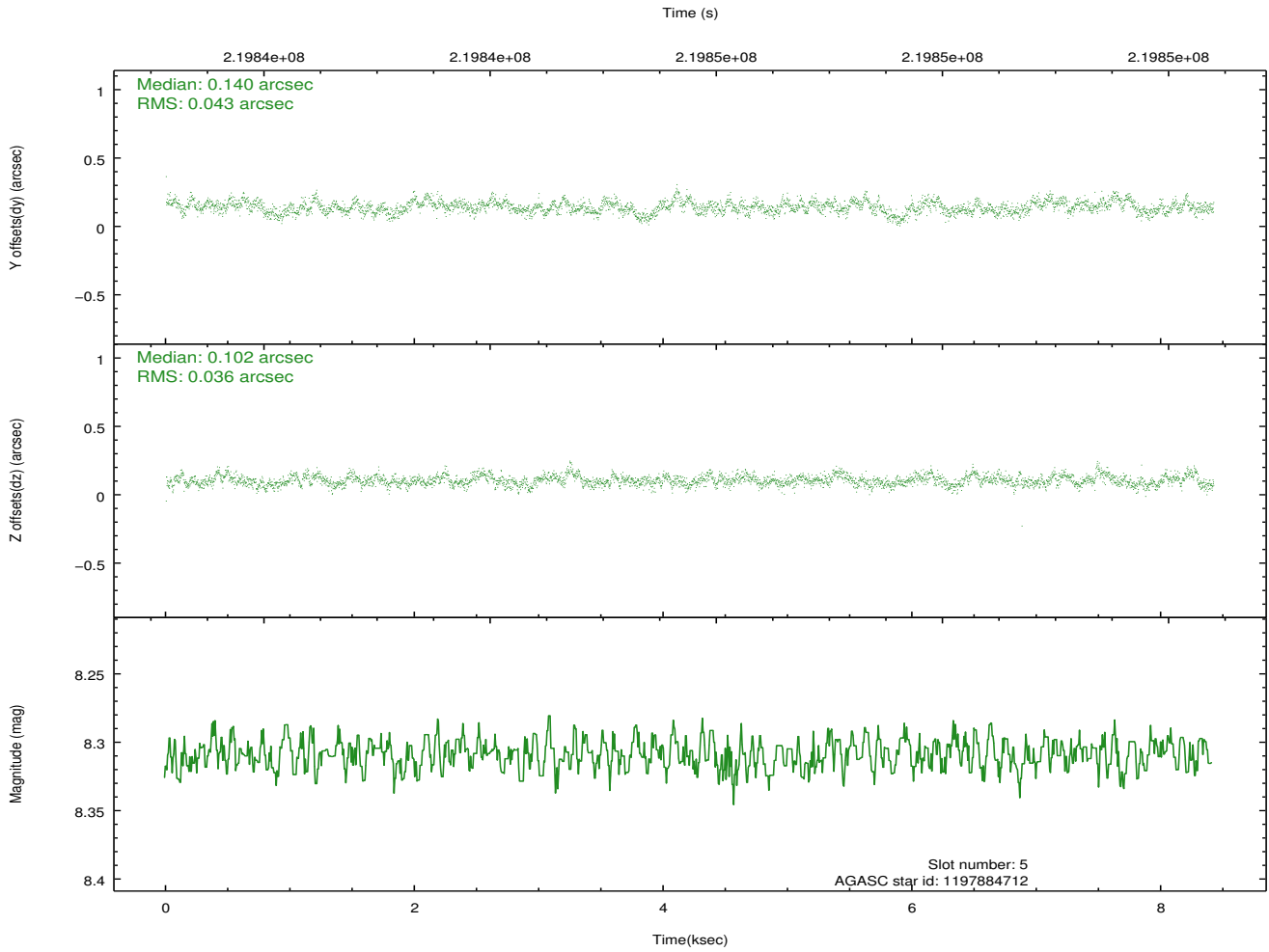
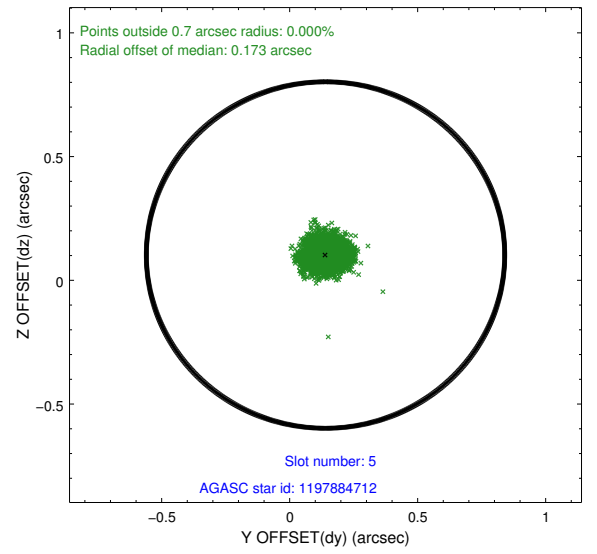
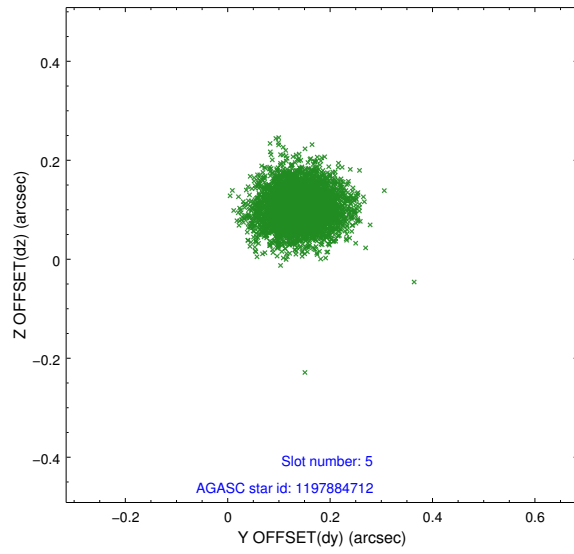
2.4.1 Slot 3



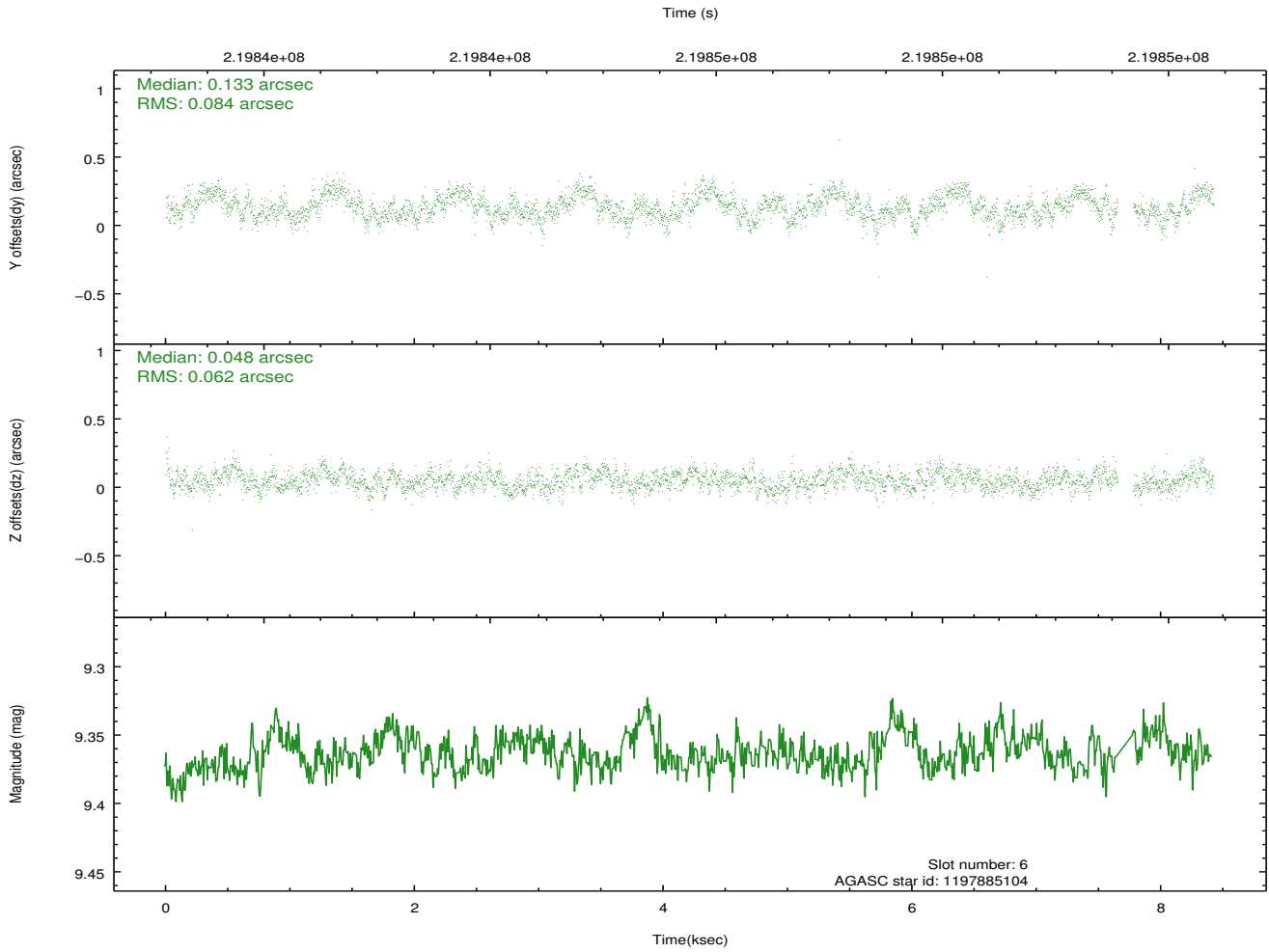
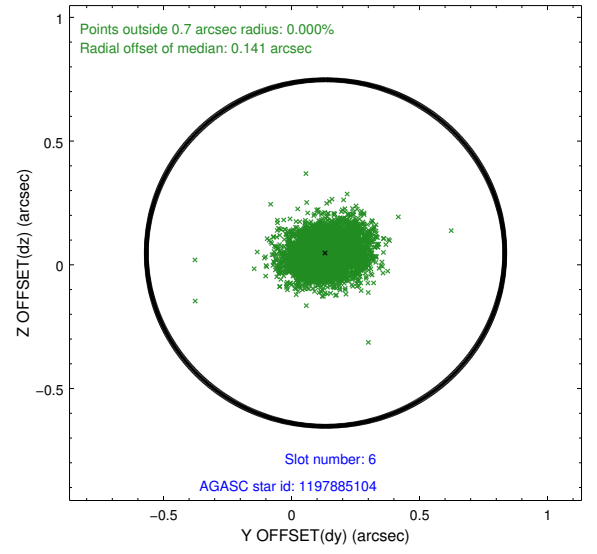
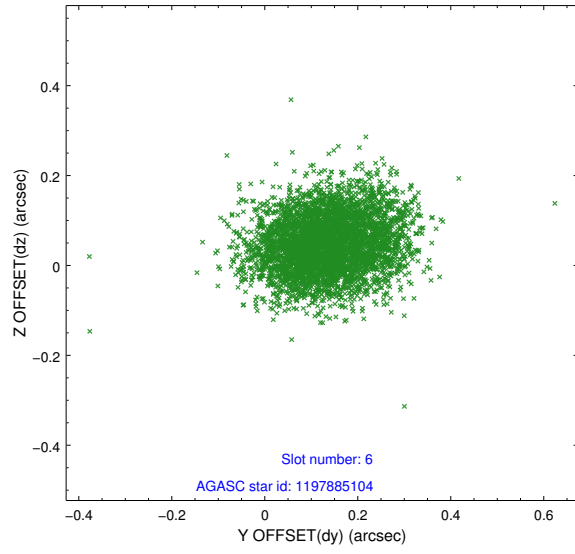
2.4.2 Slot 4



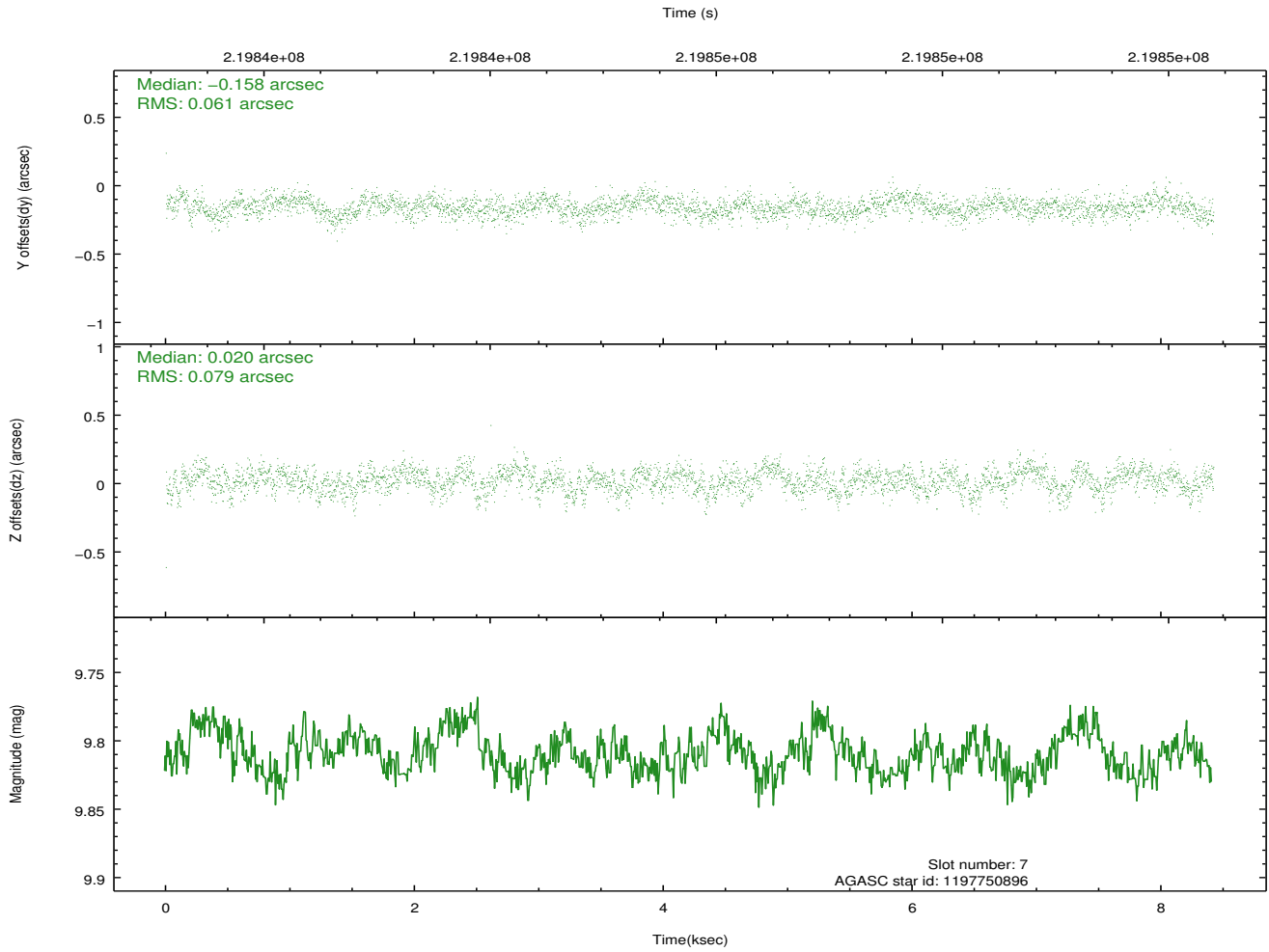
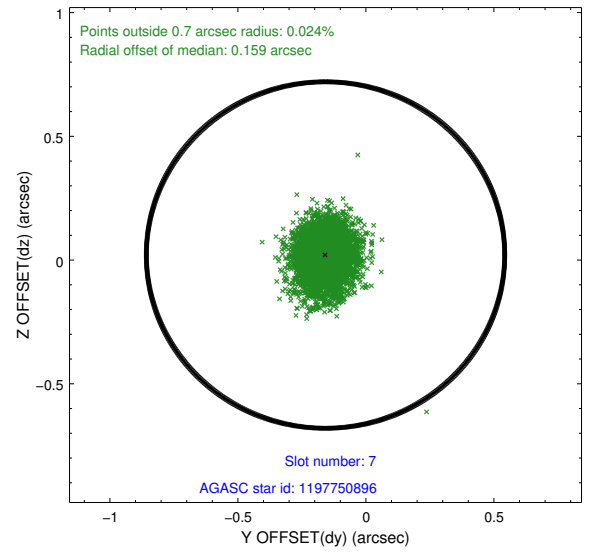
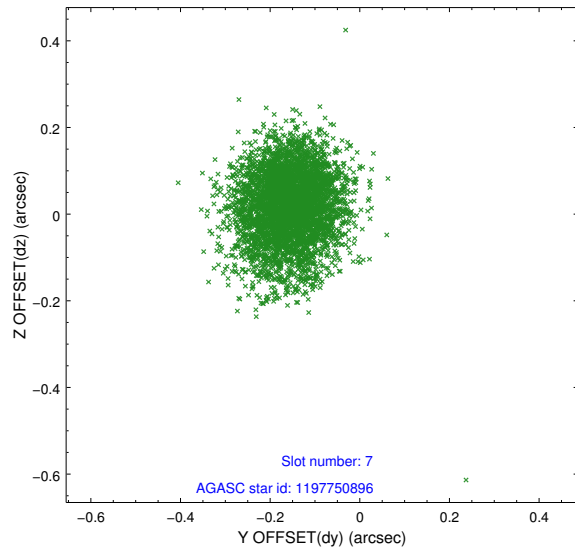
2.4.3 Slot 5



2.4.4 Slot 6

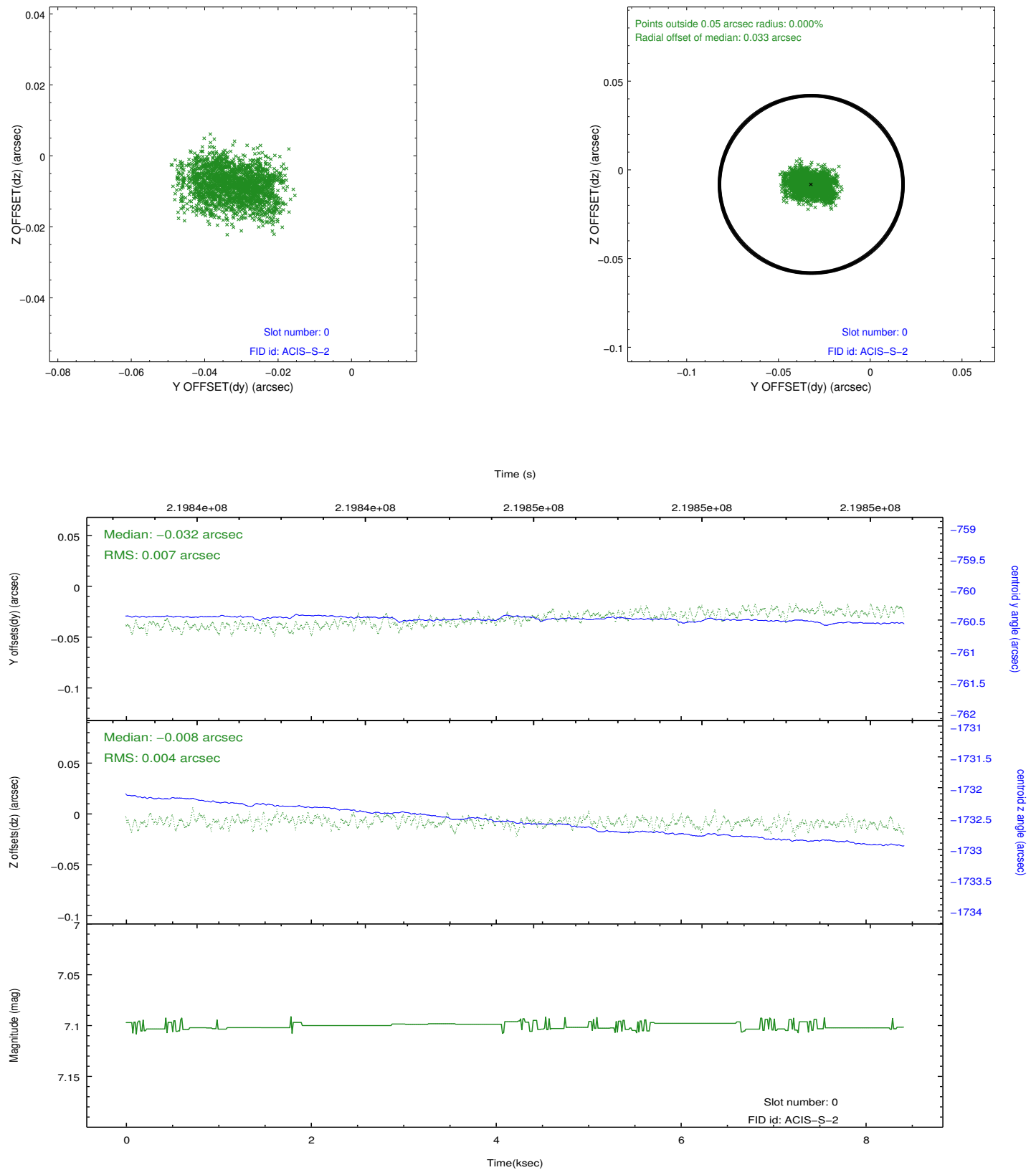


2.4.5 Slot 7

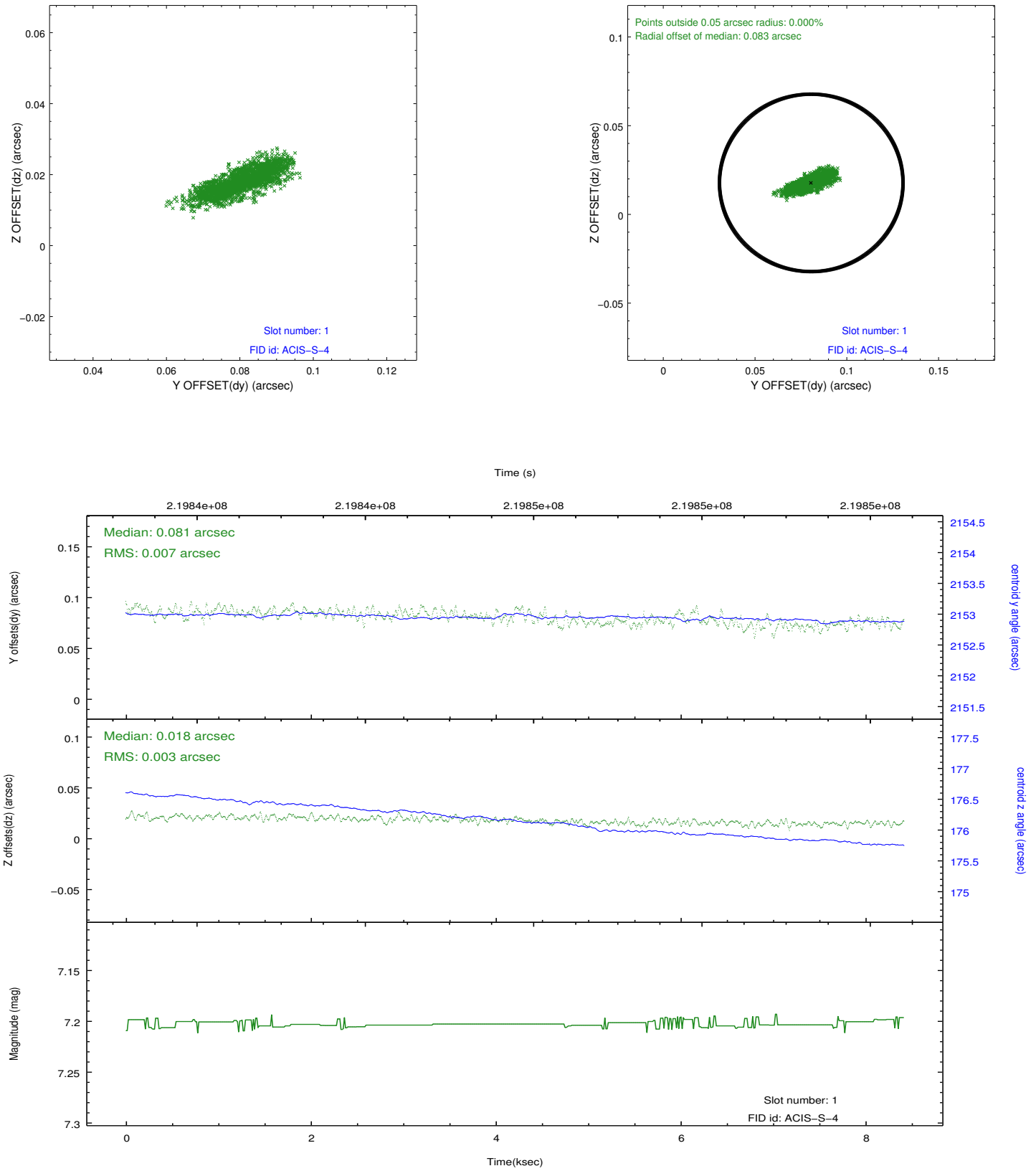


2.5 FID Slots

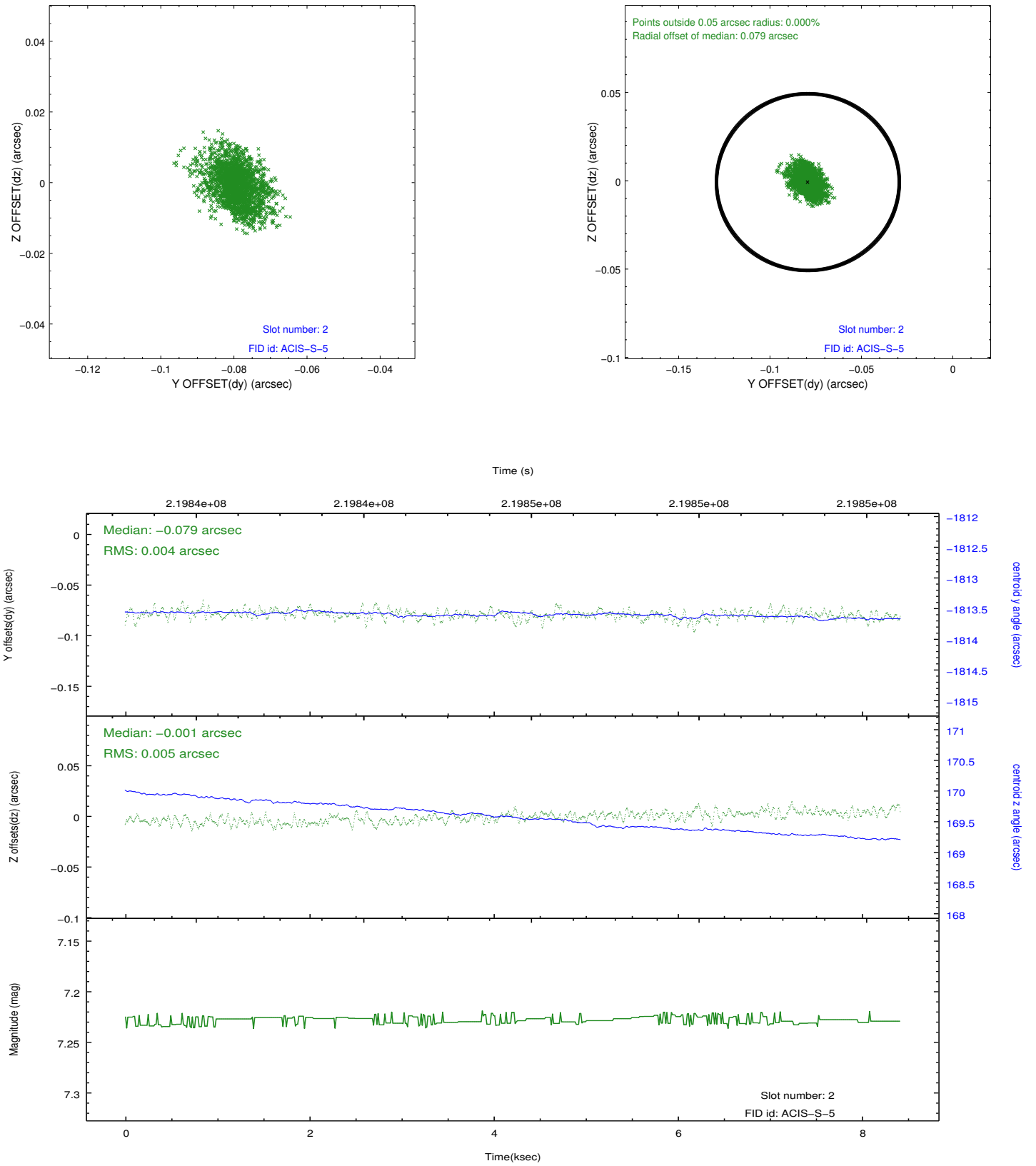
2.5.1 Slot 0



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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.951999

A.2 Comments

Window constraint met.