

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17705 - L2 Version 1
Chandra X-Ray Center

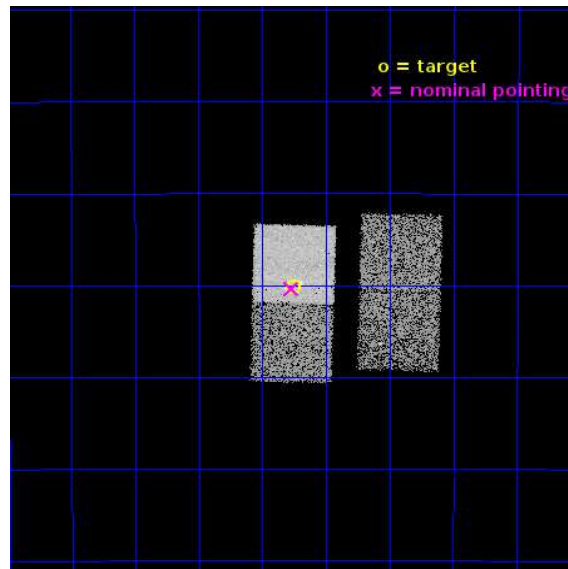
L2 Processing Date : Jul 27 2015

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1 Front

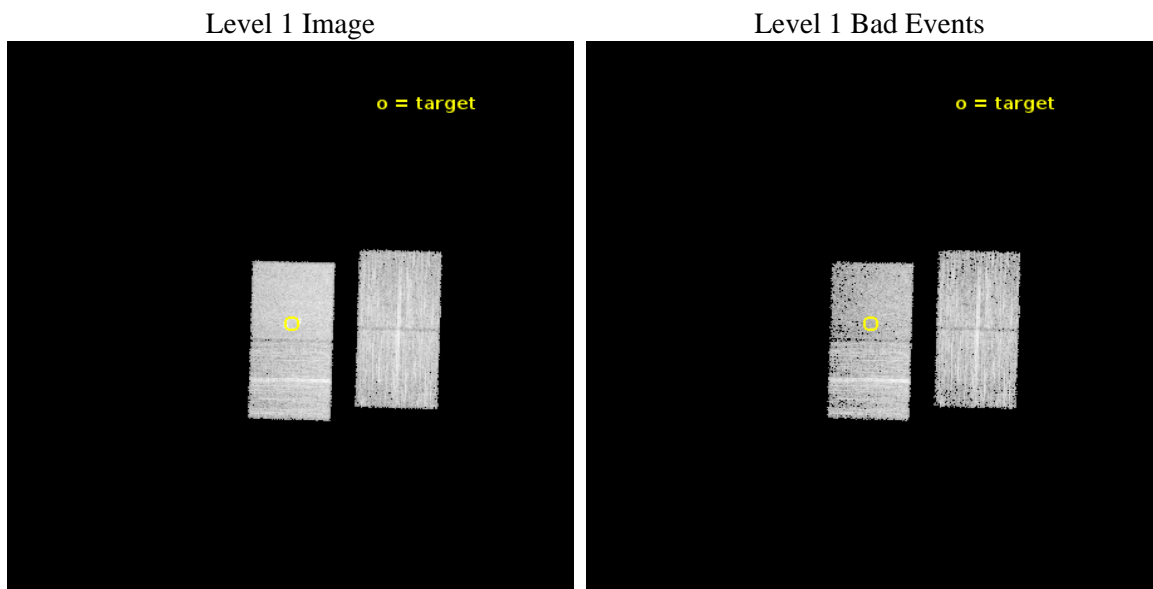
seq_num	502465	Sequence number
obs_id	17705	Observation id
title	Nonuniform expansion and brightening of the youngest Galactic SNR G1.9+0.3	Proposal title
observer	Dr. Kazimierz Borkowski	Principal investigator
object	G1.9+0.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.189167	Observer's specified target RA [deg]
dec_targ	-27.168889	Observer's specified target Dec [deg]
ra_nom	267.19317770653	Nominal RA [deg]
dec_nom	-27.17298688793	Nominal Dec [deg]
roll_nom	271.55845860634	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.800077558	Sum of GTIs [s]
livetime	9937.2437920015	Livetime [s]
ontime2	10065.659097314	Sum of GTIs [s]
ontime3	10068.800077558	Sum of GTIs [s]
ontime6	10068.800077558	Sum of GTIs [s]
ontime7	10068.800077558	Sum of GTIs [s]
l2events	45251	Number of level 2 events



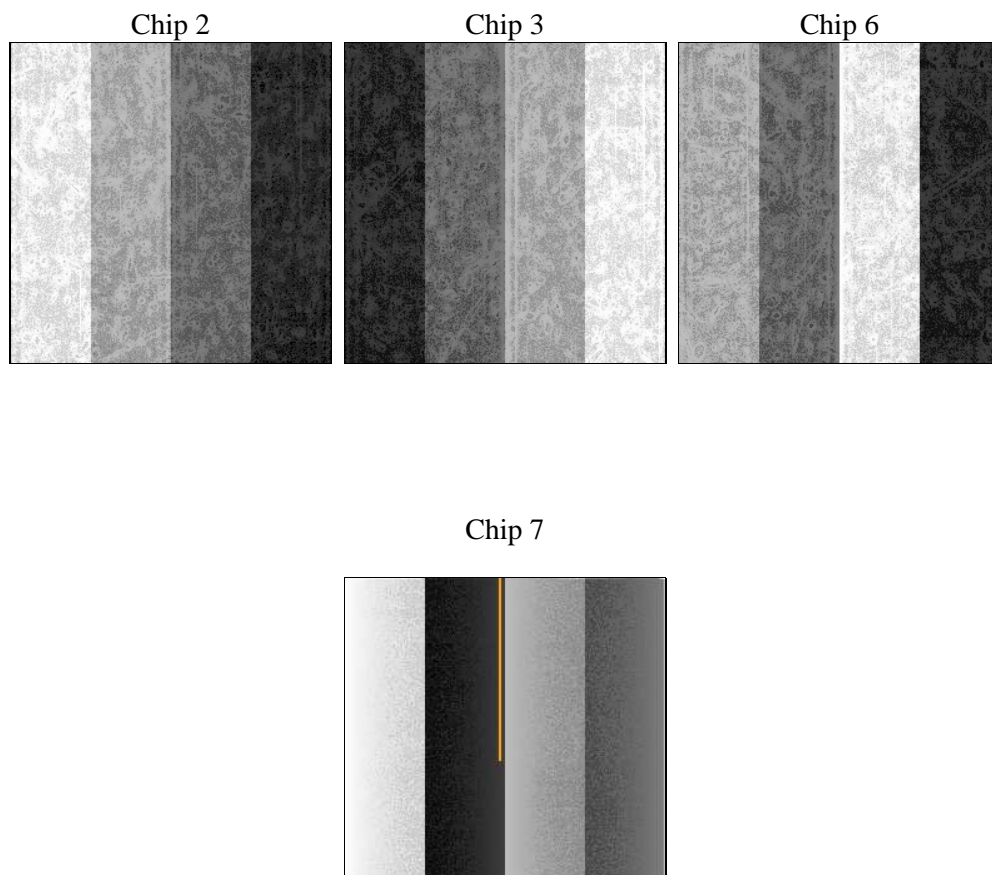
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	10068.800077558	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	10065.659097314	Sum of GTIs [s]
date	2015-07-27T10:35:58	Date and time of file creation	ontime3	10068.800077558	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10068.800077558	Sum of GTIs [s]
			ontime7	10068.800077558	Sum of GTIs [s]
			l1events	209425	Number of level 1 events

2.1.4 Events

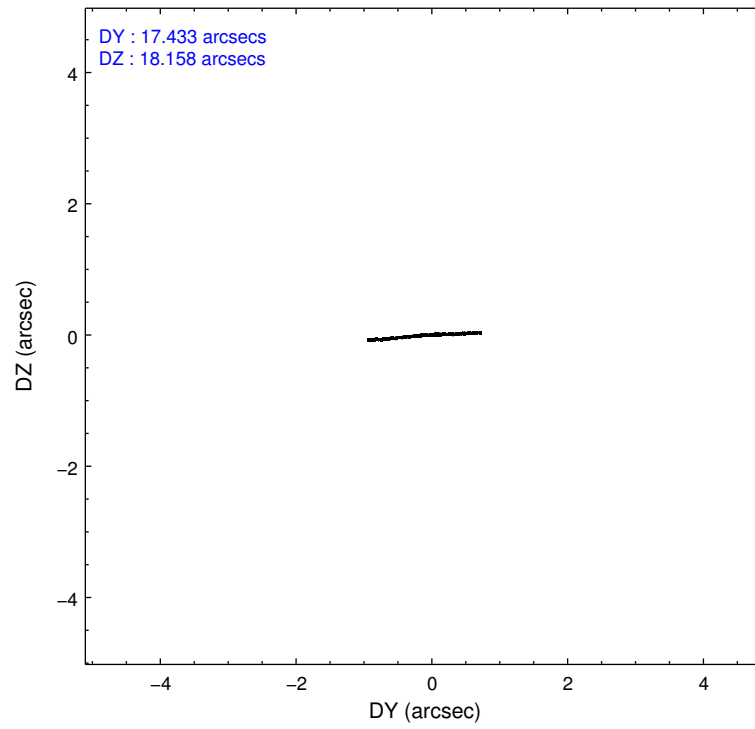
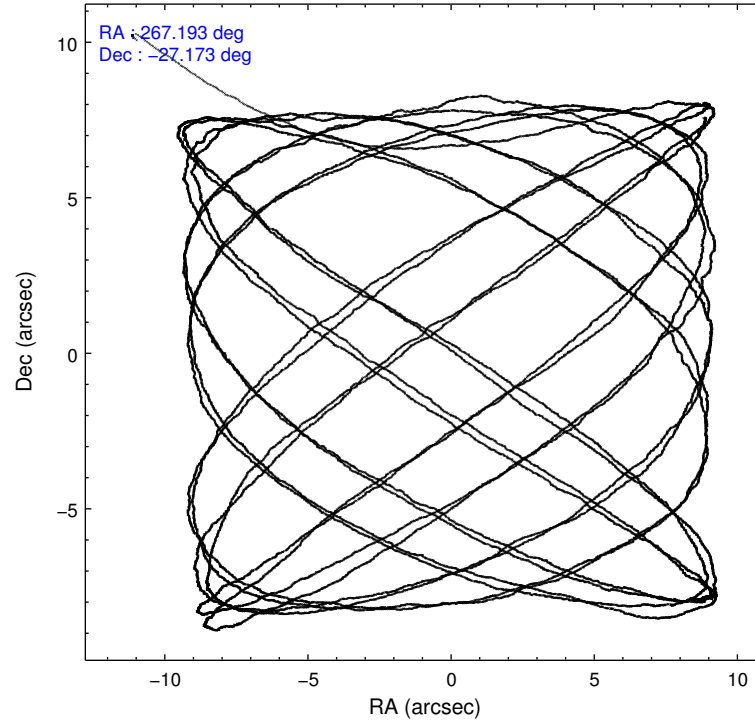
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	50573	47571	51439	59842
rejected events	44464	41684	44720	30067
rejected %	87%	87%	86%	50%

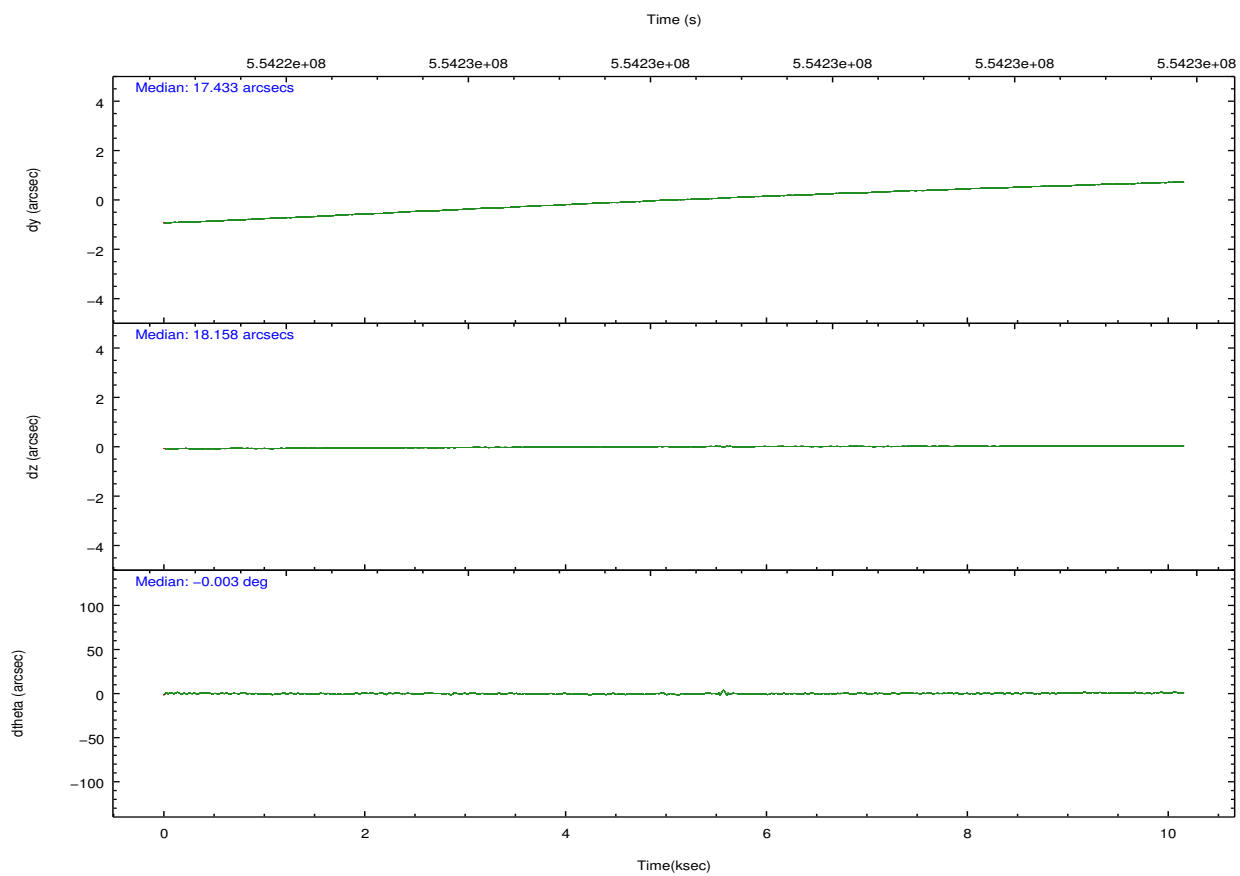
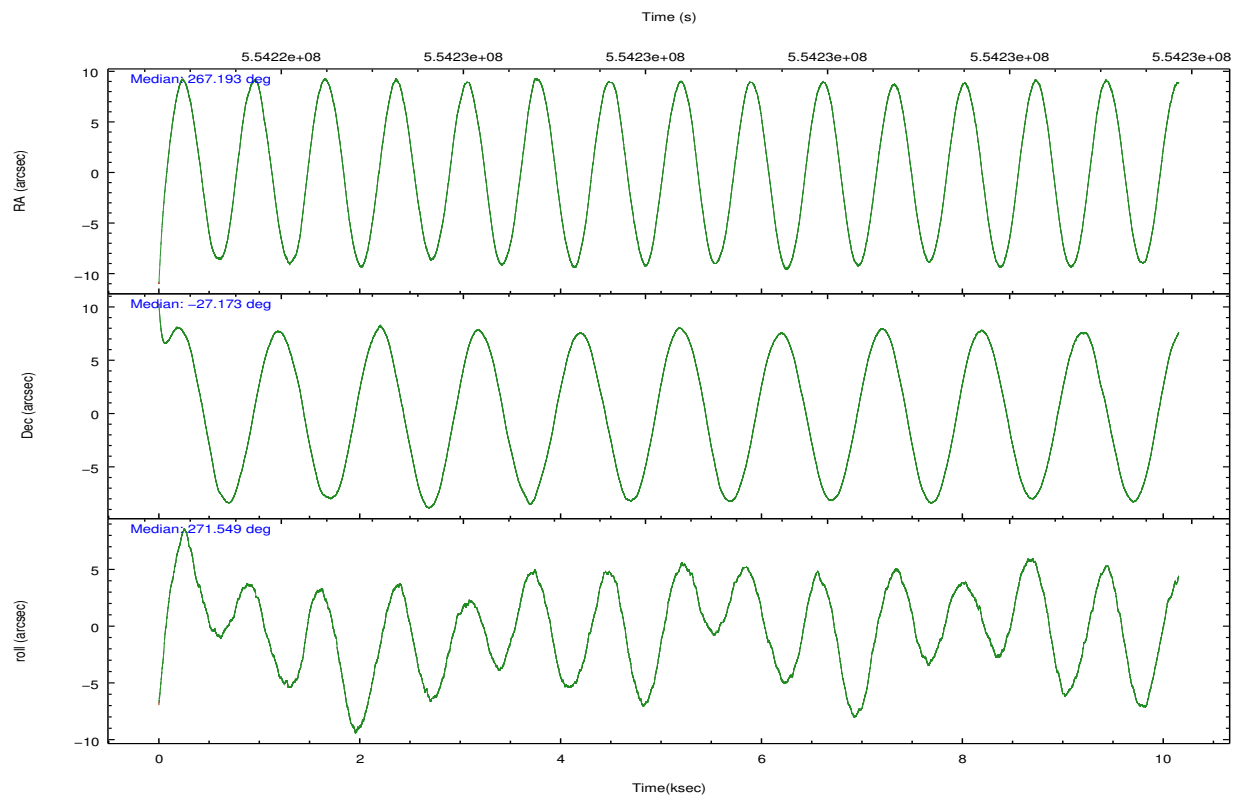
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2447	2441	2633	3114
	4%	5%	5%	5%
grade 1 events	30	36	26	81
	0%	0%	0%	0%
grade 2 events	1470	1323	1459	6537
	2%	2%	2%	10%
grade 3 events	530	552	634	2660
	1%	1%	1%	4%
grade 4 events	587	567	641	2535
	1%	1%	1%	4%
grade 5 events	1831	2113	2267	6140
	3%	4%	4%	10%
grade 6 events	1075	1007	1354	14939
	2%	2%	2%	24%
grade 7 events	42603	39532	42425	23836
	84%	83%	82%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	267.176656	267.1931777065251	CCD I2 on	O1	Y
[deg] Pointing Dec	-27.149823	-27.17298688792971	CCD I3 on	O2	Y
[deg] Pointing Roll	271.394291	271.5584586063395	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	554223322.184000	554221748.19723	CCD S5 on	N	N
Observation start date	2015-07-25T14:54:14	2015-07-25T14:29:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	554233322.184000	554234400.28544	On-chip summing requested	N	N
Observation end date	2015-07-25T17:40:54	2015-07-25T18:00:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



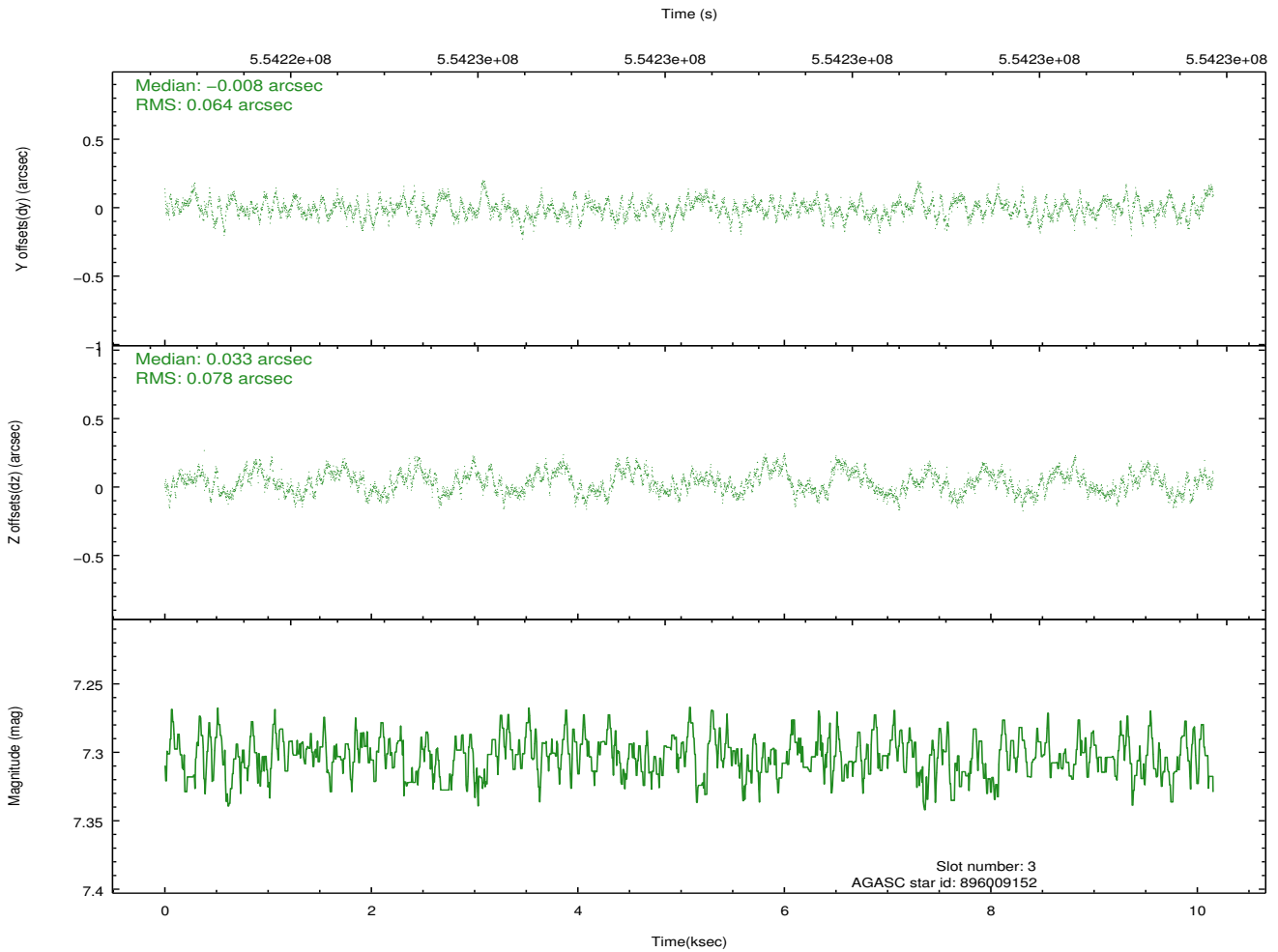
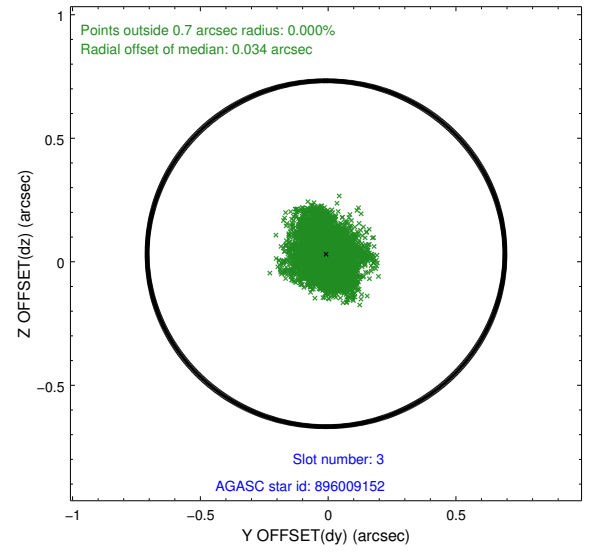
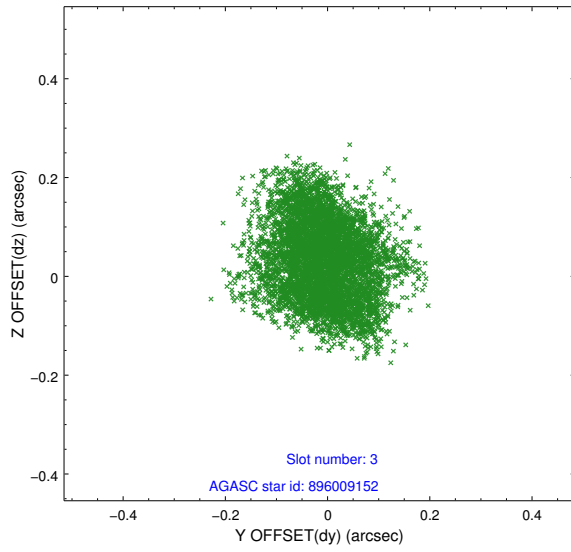


Slot Statistics

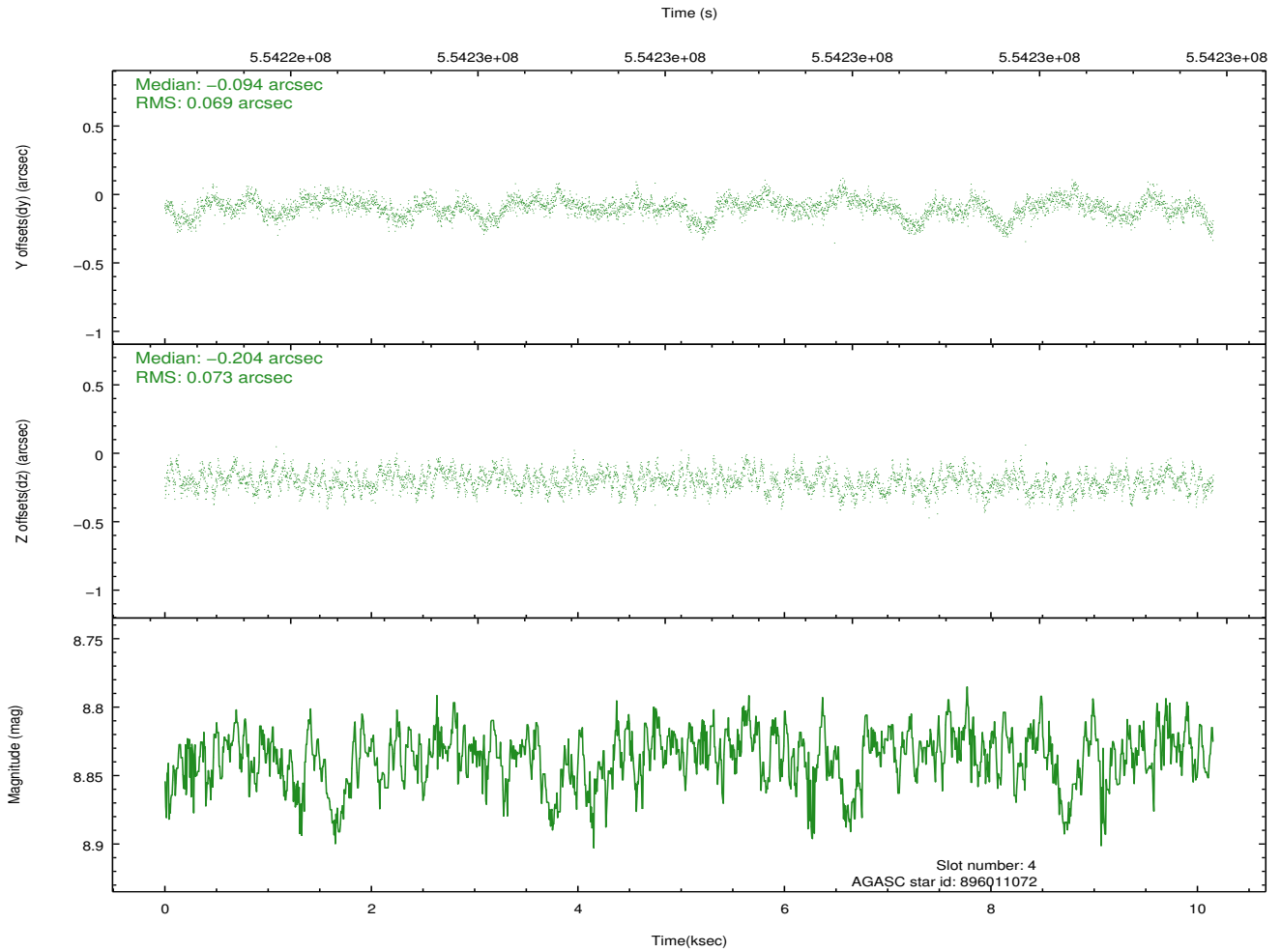
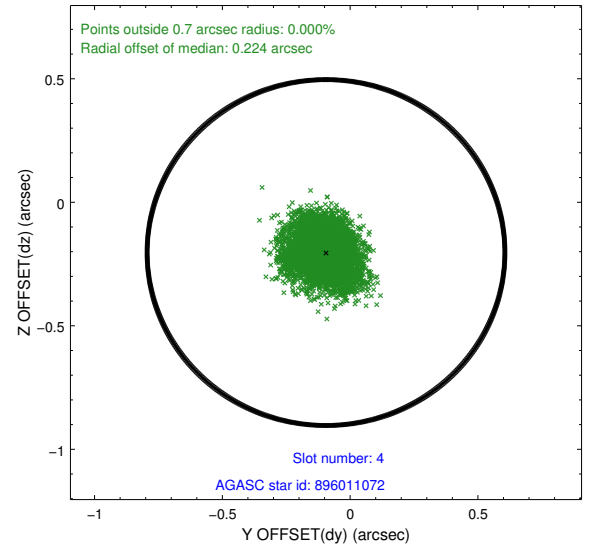
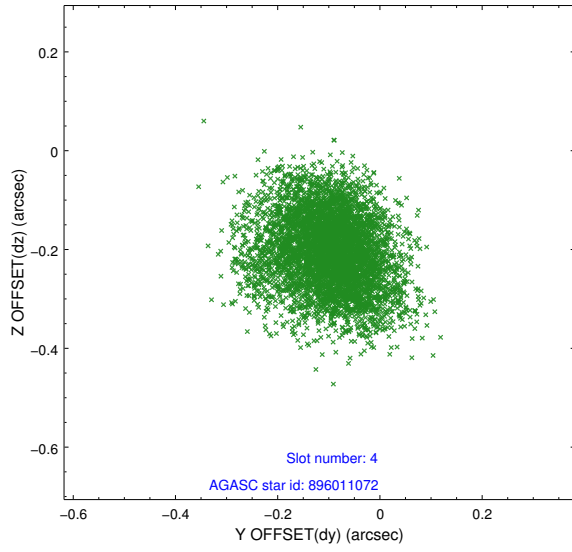
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	2477	-0.170	-0.097	0.013	0.022	0.000000	0.000000	-770.64	-1739.69
1	FID		ACIS-S-4	7.10	2477	0.212	0.093	0.012	0.019	0.000000	0.000000	2142.83	168.38
2	FID		ACIS-S-6	7.24	2477	-0.069	0.008	0.009	0.015	0.000000	0.000000	392.17	806.32
3	GUIDE	used	896009152	7.30	4954	-0.008	0.033	0.110	0.167	267.588100	-27.061669	-282.14	1326.01
4	GUIDE	used	896011072	8.83	4951	-0.094	-0.204	0.107	0.176	267.780553	-27.396374	940.57	1907.24
5	GUIDE	used	896012968	8.67	4946	-0.048	-0.143	0.126	0.192	266.634547	-27.600471	1584.42	-1768.08
6	GUIDE	used	896013040	7.34	4954	0.128	0.195	0.071	0.114	266.506589	-26.972299	-684.28	-2134.08
7	GUIDE	used	896014528	7.68	4951	0.026	0.111	0.075	0.120	266.628858	-27.438607	1001.19	-1775.26

2.4 Star Slots

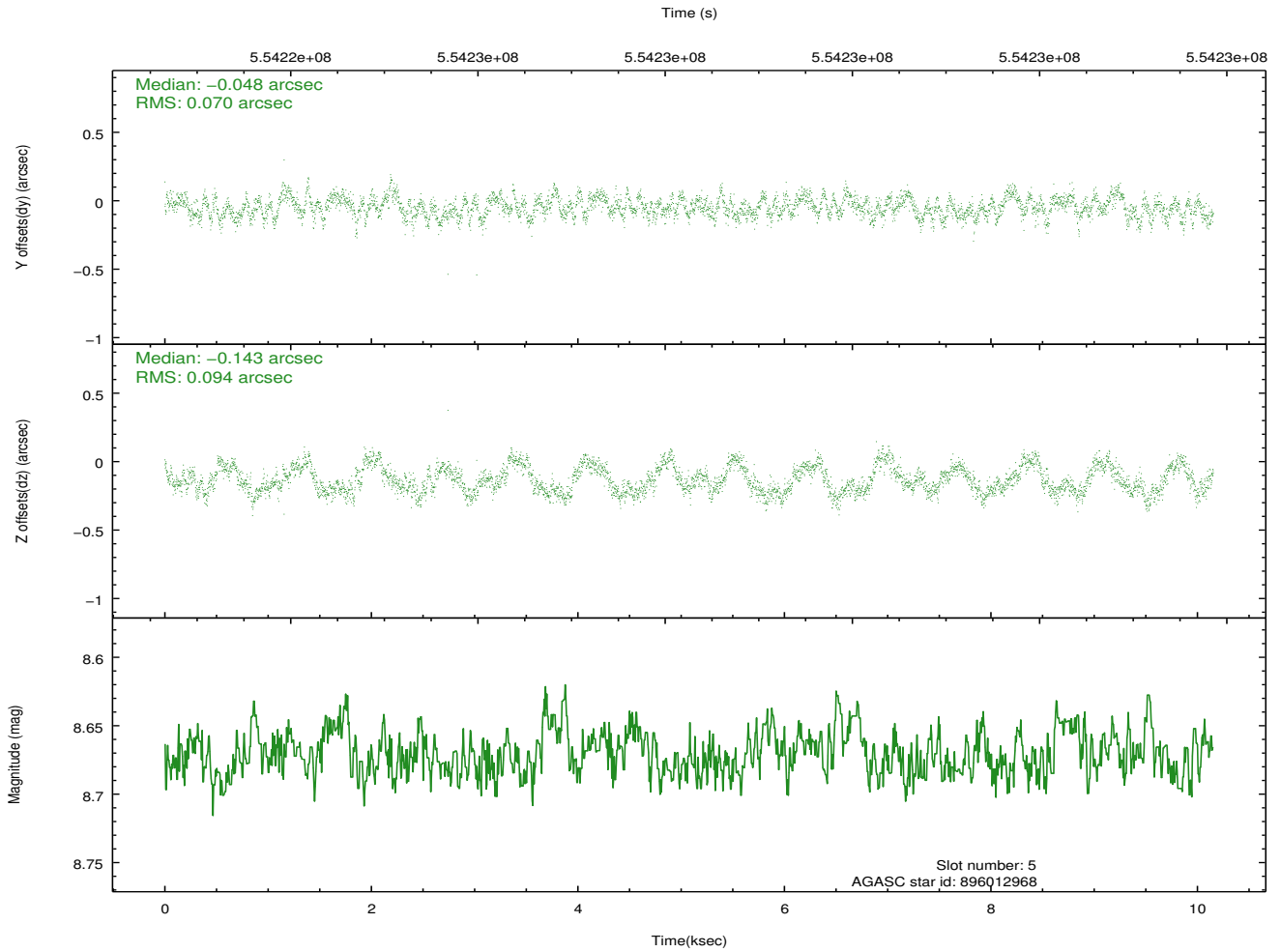
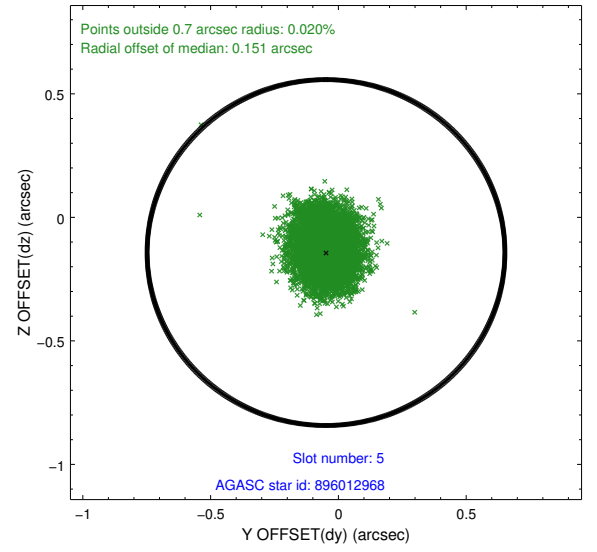
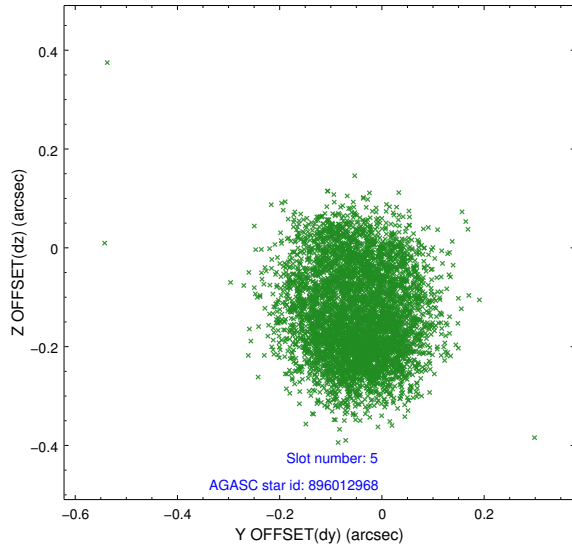
2.4.1 Slot 3



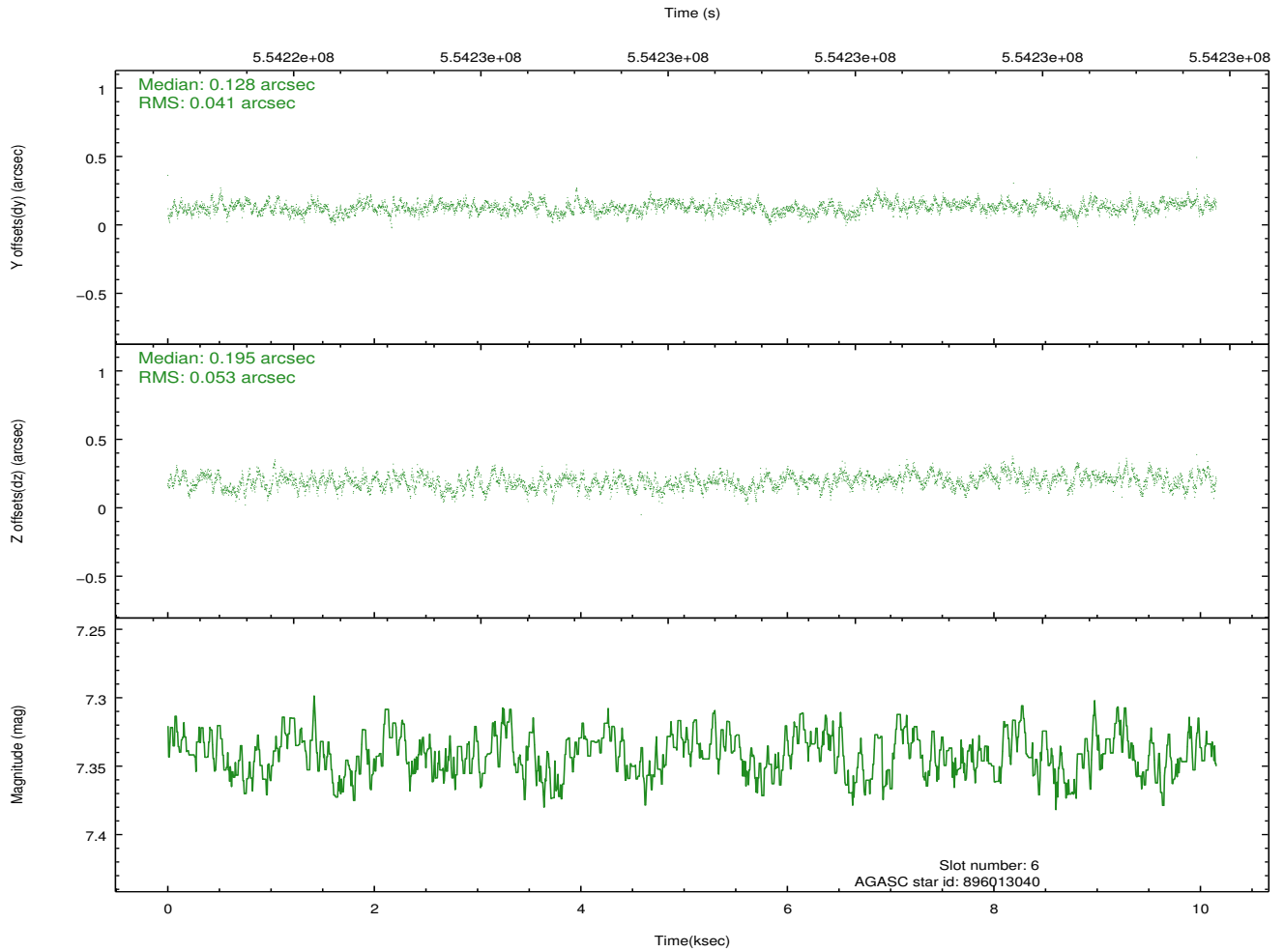
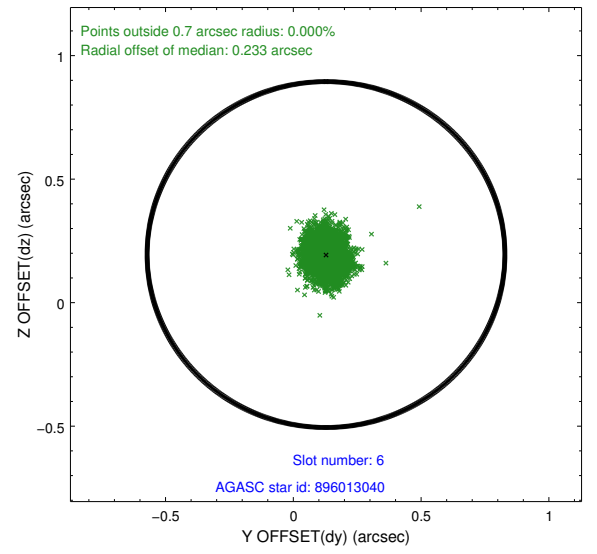
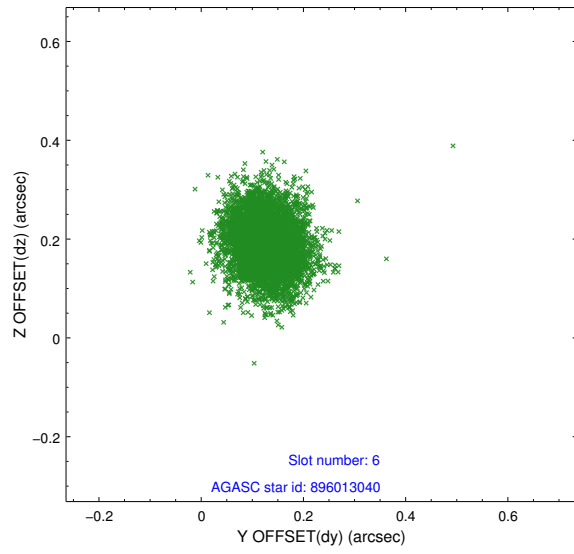
2.4.2 Slot 4



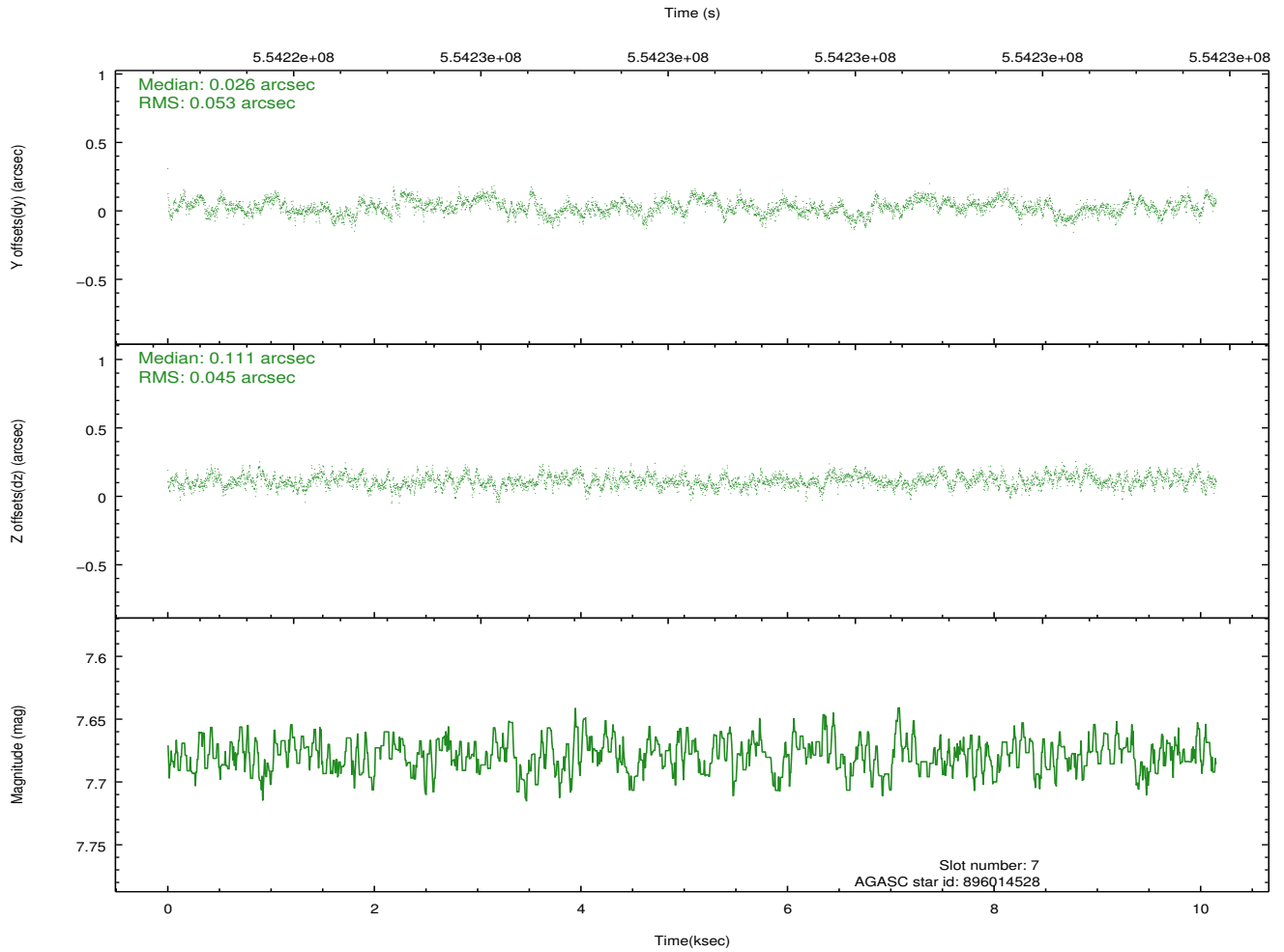
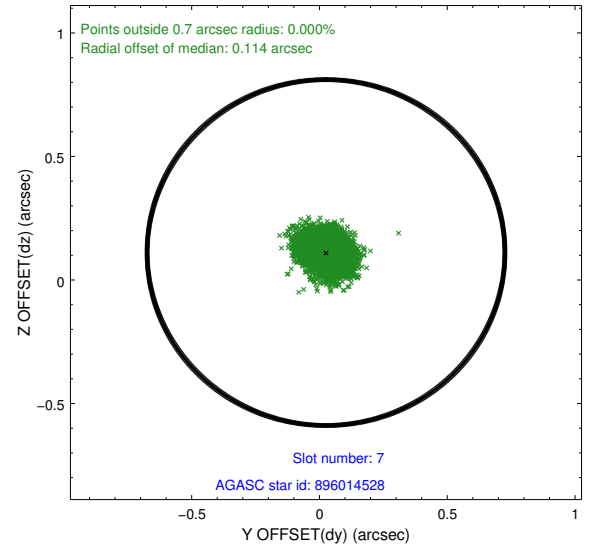
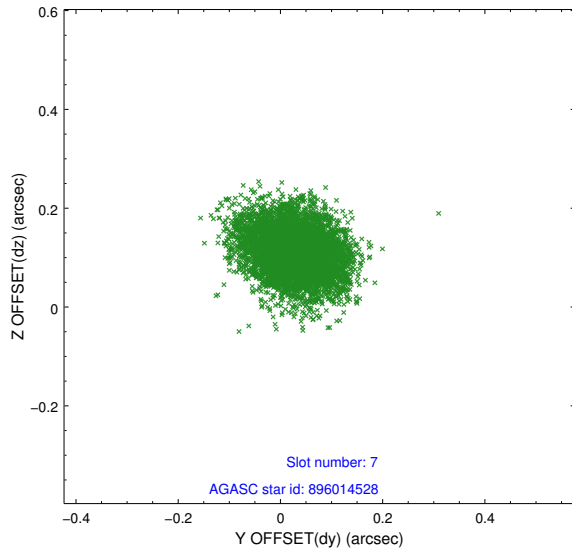
2.4.3 Slot 5



2.4.4 Slot 6

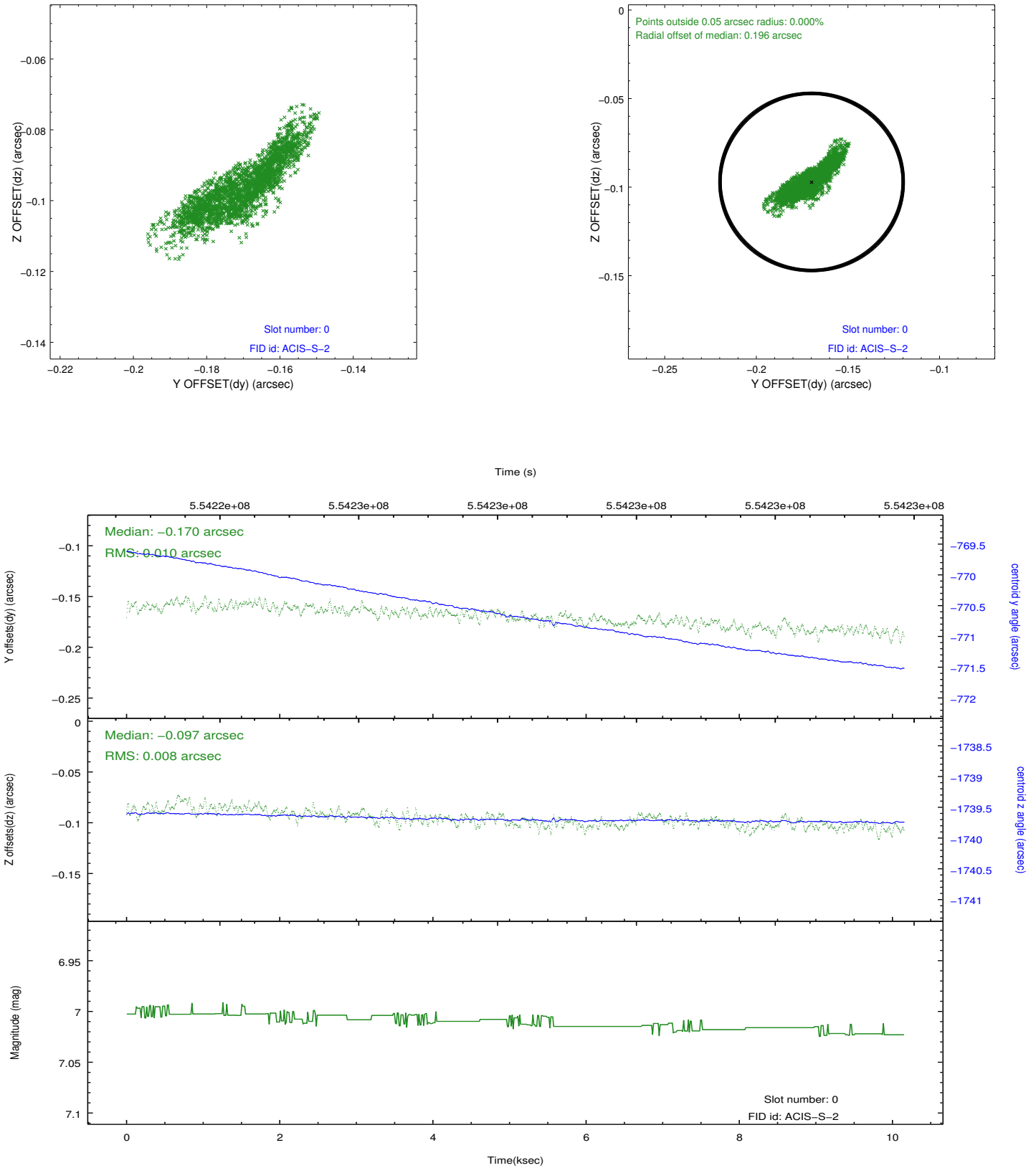


2.4.5 Slot 7

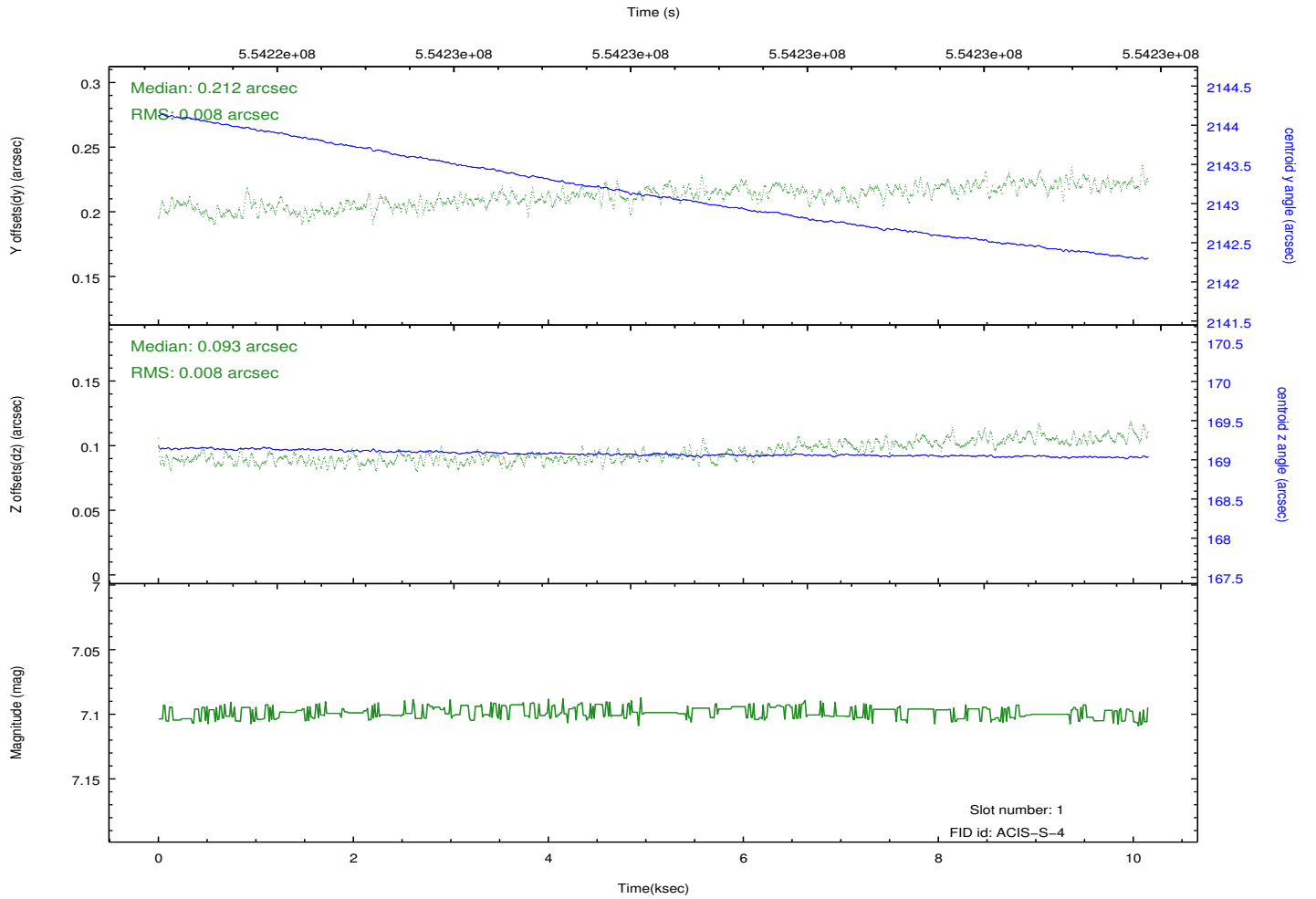
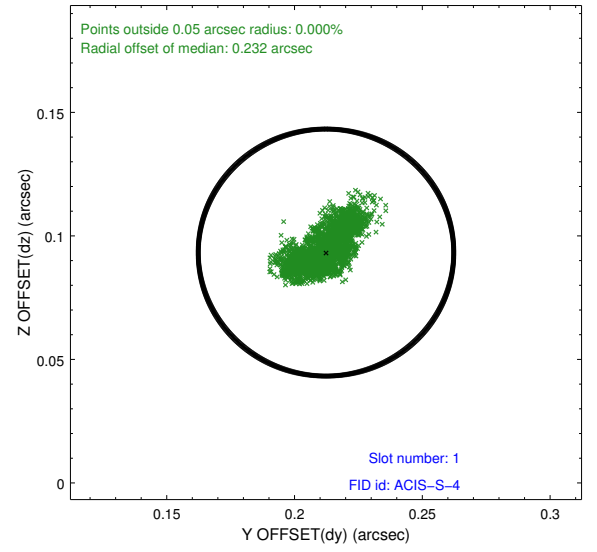
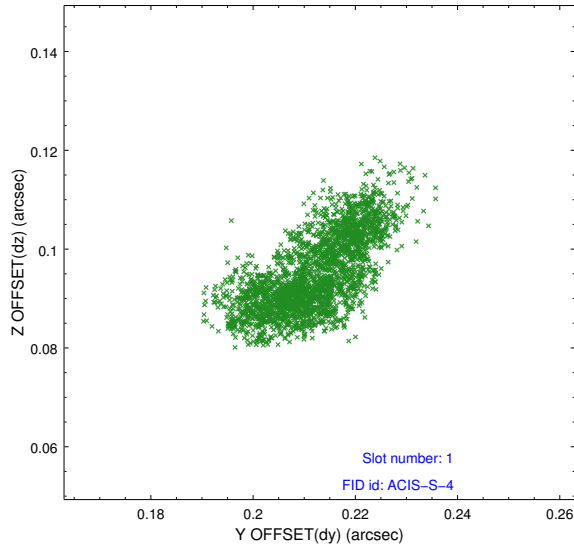


2.5 FID Slots

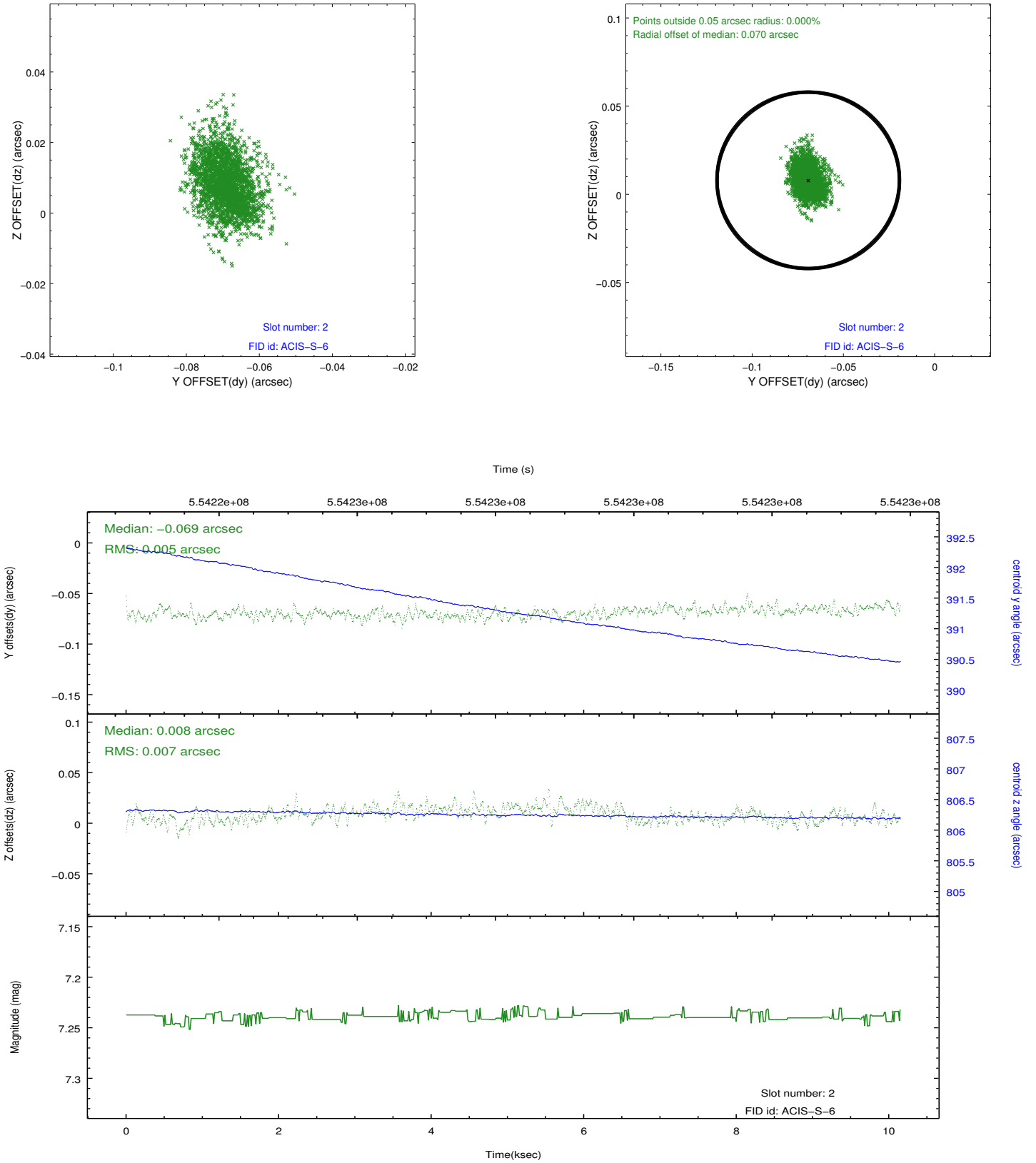
2.5.1 Slot 0



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)	2015.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068800077558

A.2 Comments