

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16947 - L2 Version 1
Chandra X-Ray Center

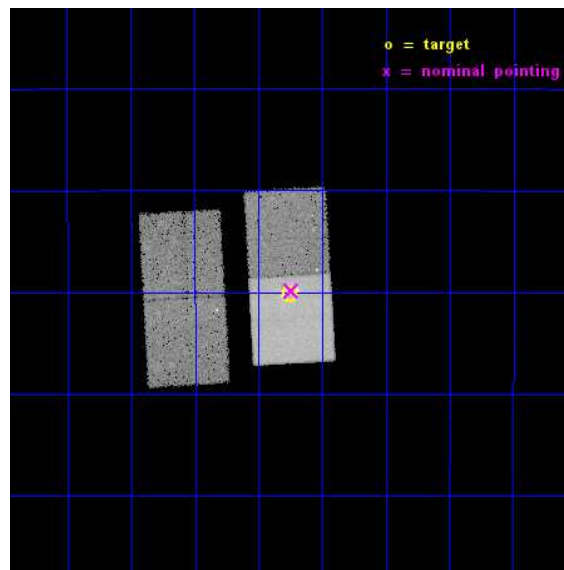
L2 Processing Date : May 5 2015

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

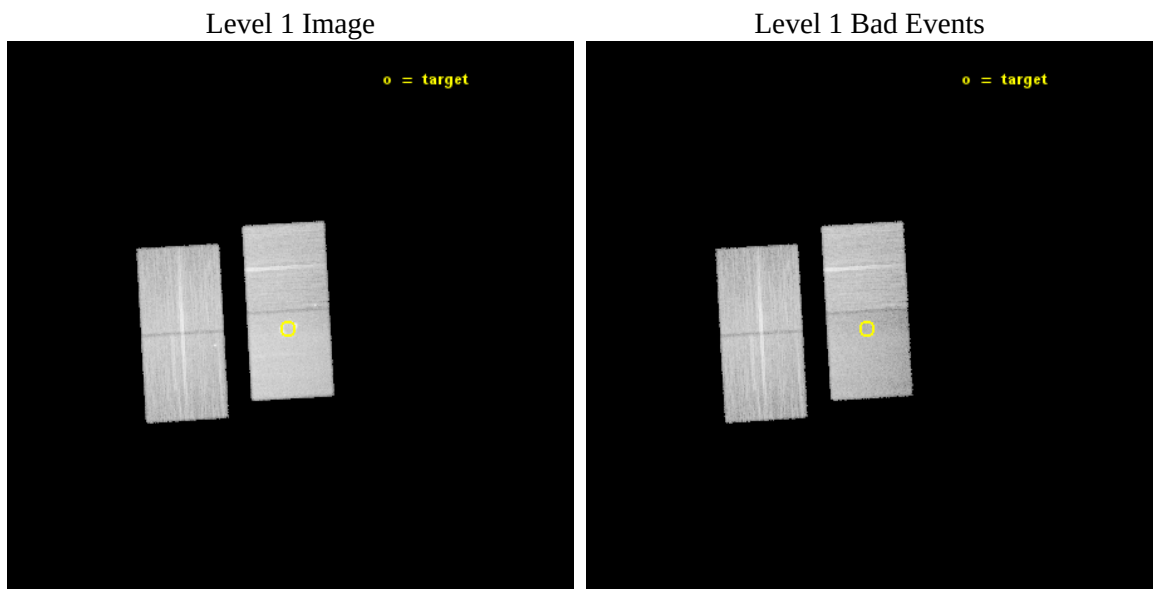
seq_num	502465	Sequence number
obs_id	16947	Observation id
title	Nonuniform expansion and brightening of the youngest Galactic SNR G1.9+0.3	Proposal title
observer	Dr. Kazimierz Borkowski	Principal investigator
object	G1.9+0.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.189167	Observer's specified target RA [deg]
dec_targ	-27.168889	Observer's specified target Dec [deg]
ra_nom	267.18561120789	Nominal RA [deg]
dec_nom	-27.164468165407	Nominal Dec [deg]
roll_nom	86.655009376517	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39277.000302196	Sum of GTIs [s]
livetime	38763.81737794	Livetime [s]
ontime2	39270.718201756	Sum of GTIs [s]
ontime3	39277.000302196	Sum of GTIs [s]
ontime6	39273.859241843	Sum of GTIs [s]
ontime7	39277.000302196	Sum of GTIs [s]
l2events	164147	Number of level 2 events



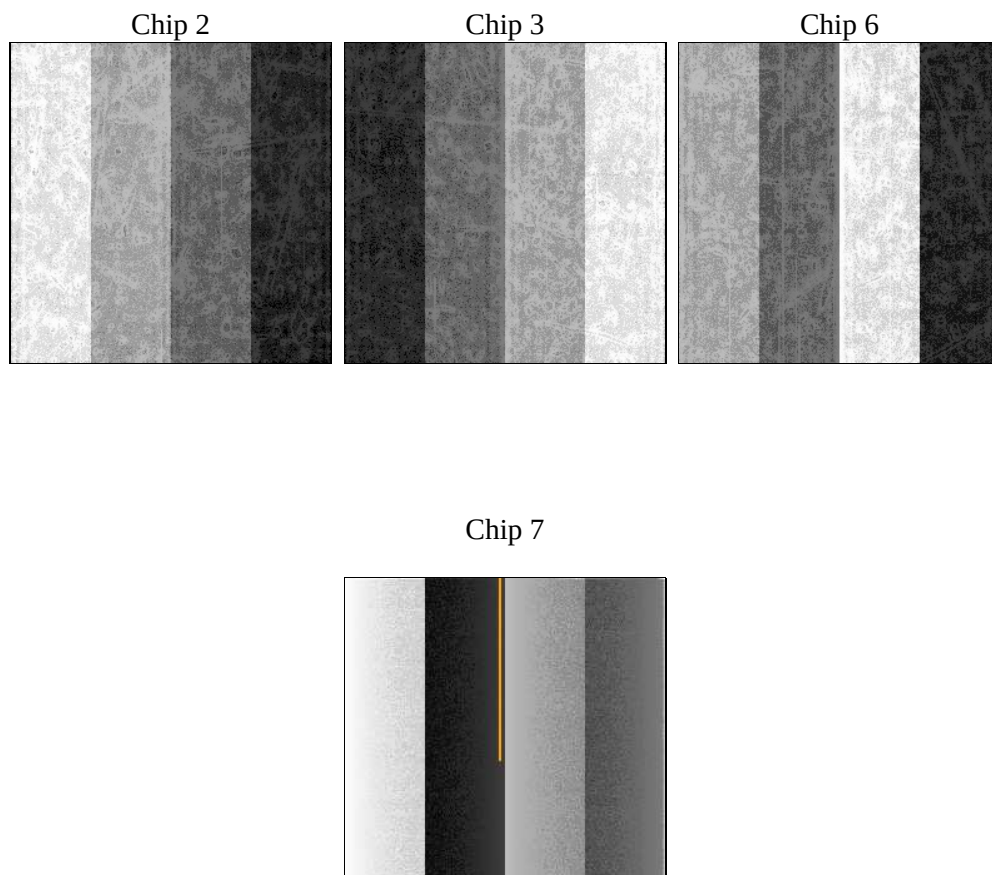
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39207.516000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	39277.000302196	Sum of GTIs [s]
caldbver	4.6.7	 	ontime2	39270.718201756	Sum of GTIs [s]
date	2015-05-05T14:17:00	Date and time of file creation	ontime3	39277.000302196	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	39273.859241843	Sum of GTIs [s]
			ontime7	39277.000302196	Sum of GTIs [s]
			l1events	756593	Number of level 1 events

2.1.4 Events

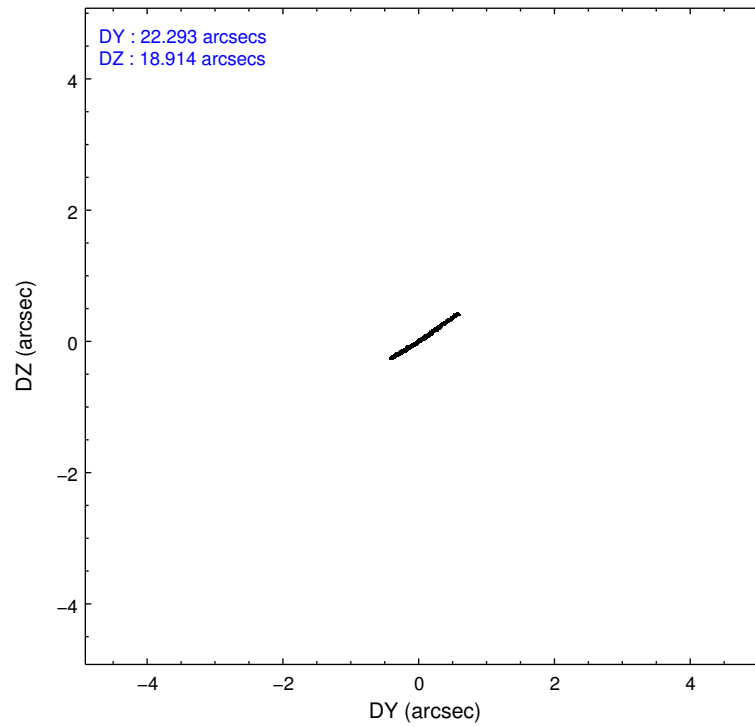
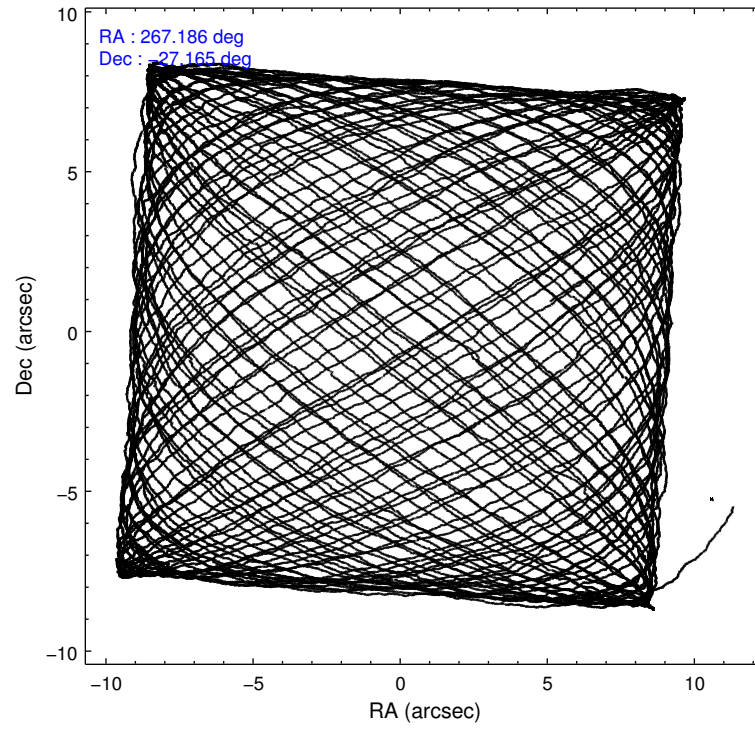
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	181563	171184	186079	217767
rejected events	159913	149808	160890	110679
rejected %	88%	87%	86%	50%

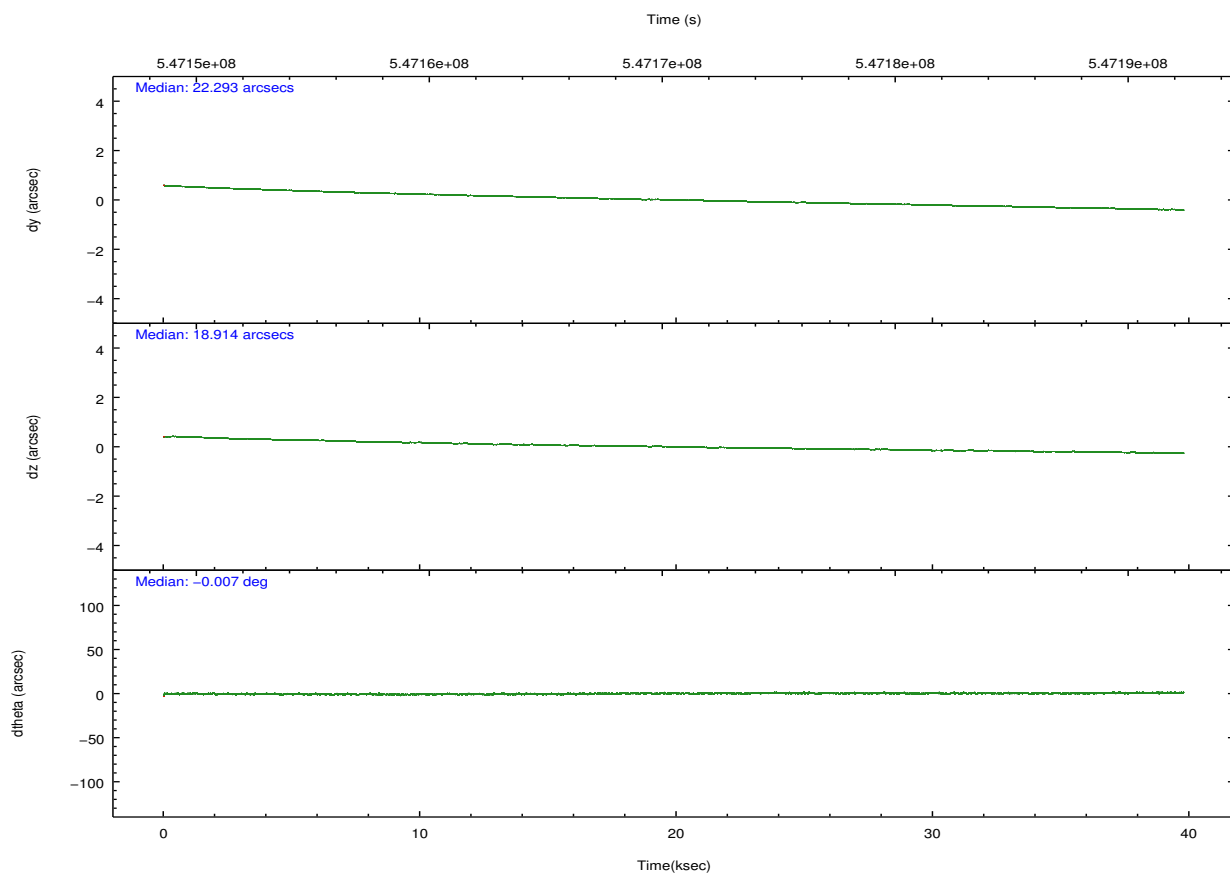
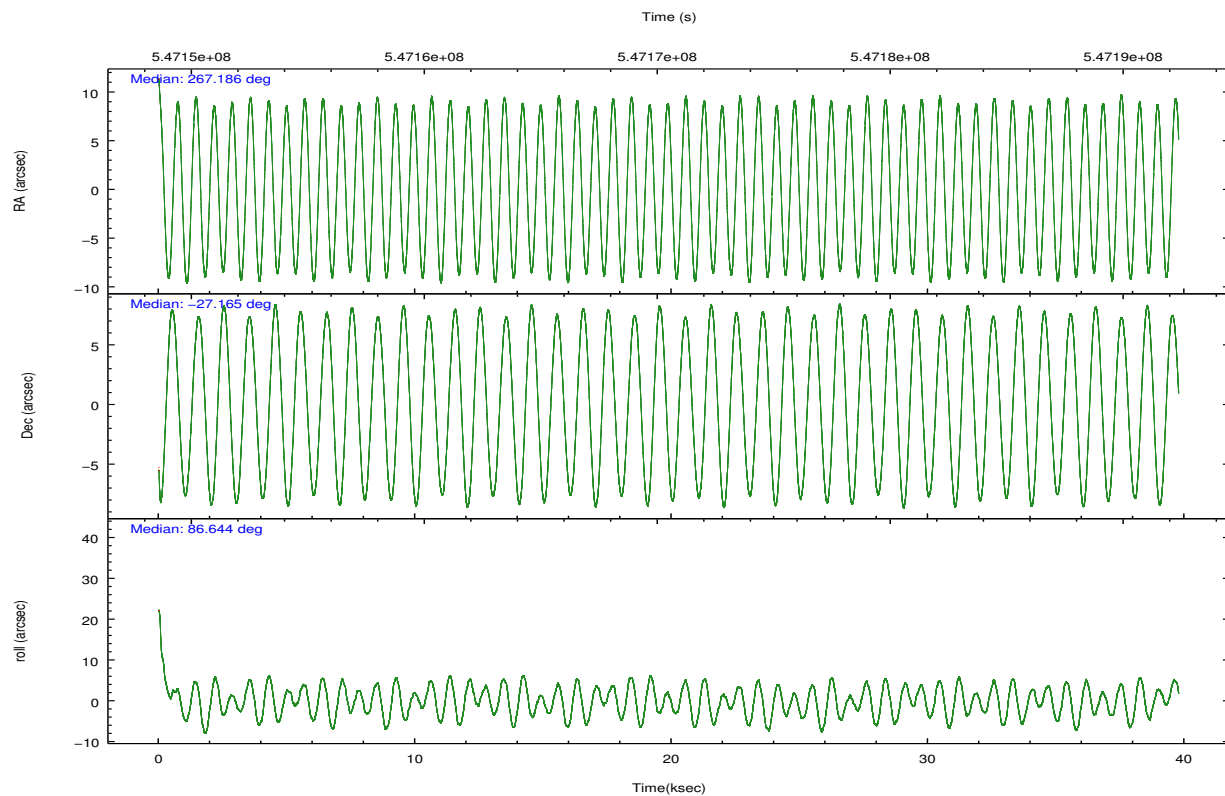
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	8971	8693	10518	10802
	4%	5%	5%	4%
grade 1 events	109	83	107	287
	0%	0%	0%	0%
grade 2 events	4771	4346	5436	23560
	2%	2%	2%	10%
grade 3 events	2153	2136	2183	9073
	1%	1%	1%	4%
grade 4 events	2037	2107	2150	8935
	1%	1%	1%	4%
grade 5 events	5956	7756	7798	20953
	3%	4%	4%	9%
grade 6 events	3720	4096	4903	54731
	2%	2%	2%	25%
grade 7 events	153846	141967	152984	89426
	84%	82%	82%	41%

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	267.199811	267.1856112078938	CCD I2 on	O1	Y
[deg] Pointing Dec	-27.188841	-27.1644681654071	CCD I3 on	O2	Y
[deg] Pointing Roll	86.504860	86.6550093765165	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	547151184.184000	547150114.94999	CCD S5 on	N	N
Observation start date	2015-05-04T18:25:17	2015-05-04T18:08:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	547190391.184000	547190617.31477	On-chip summing requested	N	N
Observation end date	2015-05-05T05:18:44	2015-05-05T05:23:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



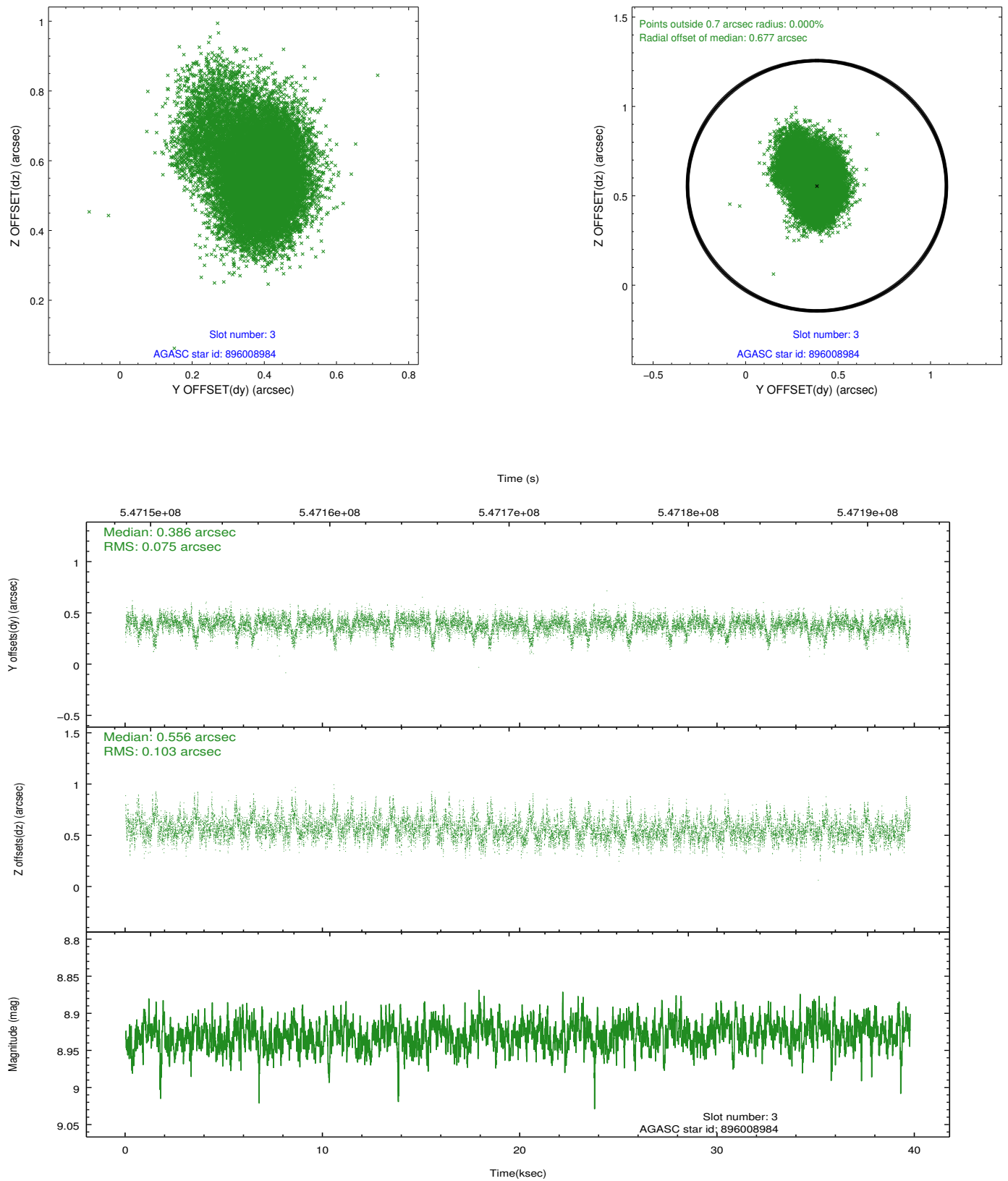


Slot Statistics

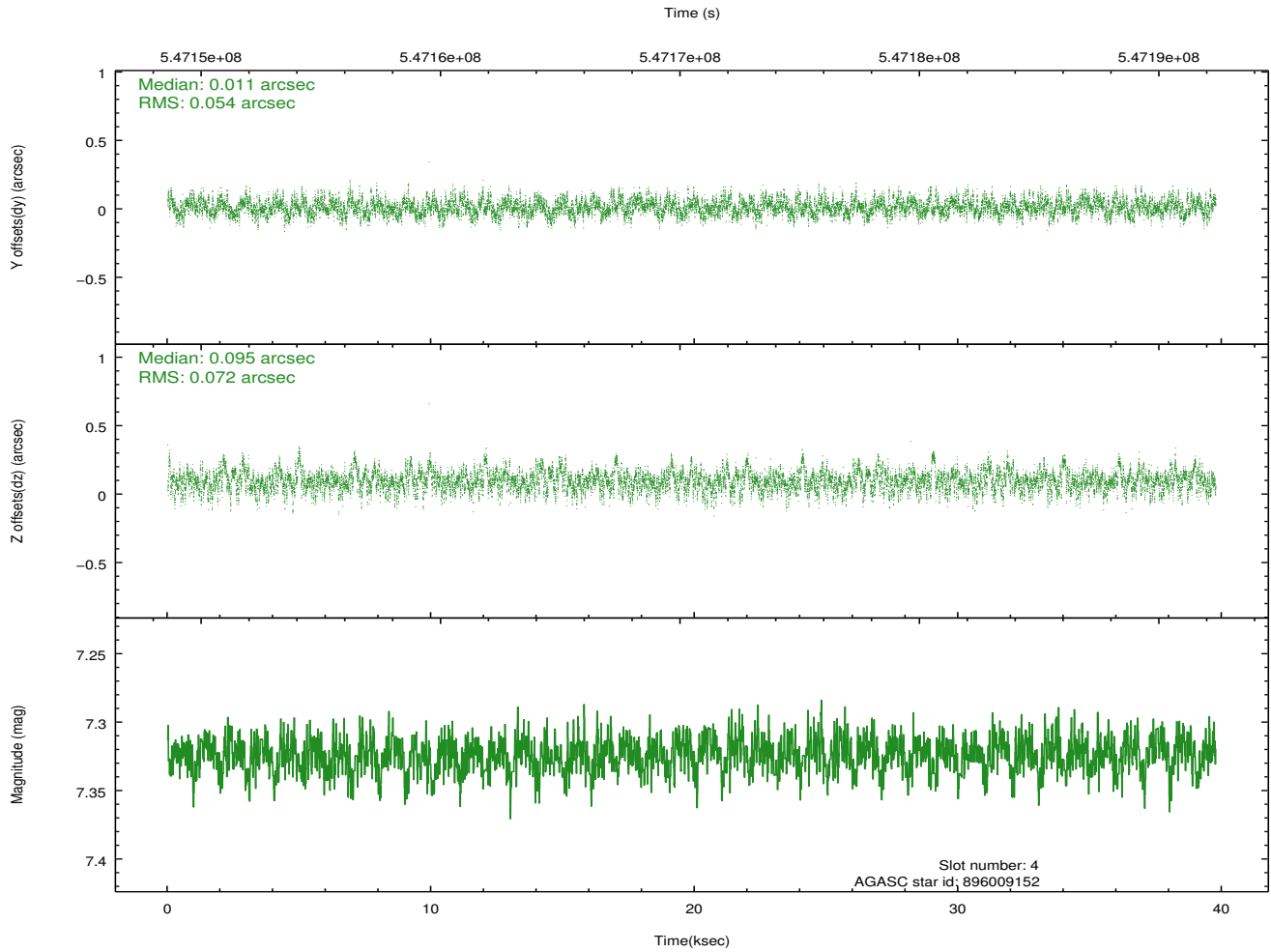
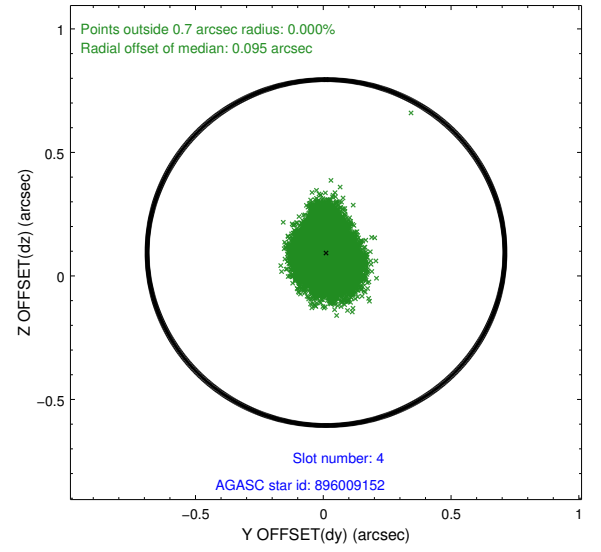
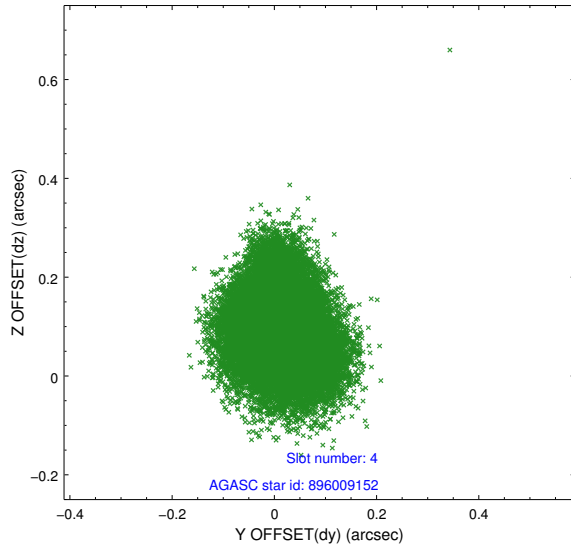
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.17	9701	0.134	-0.049	0.010	0.017	0.000000	0.000000	920.74	-1736.02
1	FID		ACIS-S-5	7.20	9698	-0.257	0.081	0.013	0.022	0.000000	0.000000	-1828.69	161.57
2	FID		ACIS-S-6	7.32	9700	0.101	-0.020	0.015	0.026	0.000000	0.000000	386.17	805.51
3	GUIDE	used	896008984	8.93	19391	0.386	0.556	0.129	0.234	267.790868	-27.829489	-2190.94	-2018.84
4	GUIDE	used	896009152	7.32	19398	0.011	0.095	0.096	0.156	267.588100	-27.061669	530.54	-1214.19
5	GUIDE	used	896014528	7.67	19400	-0.053	-0.425	0.078	0.122	266.628858	-27.438607	-1013.07	1765.28
6	GUIDE	used	897717296	8.24	19391	-0.325	0.346	0.091	0.148	267.921819	-26.875322	1261.53	-2244.93
7	GUIDE	used	896014680	8.75	19387	-0.015	-0.584	0.107	0.175	266.460330	-27.216583	-251.22	2355.91

2.4 Star Slots

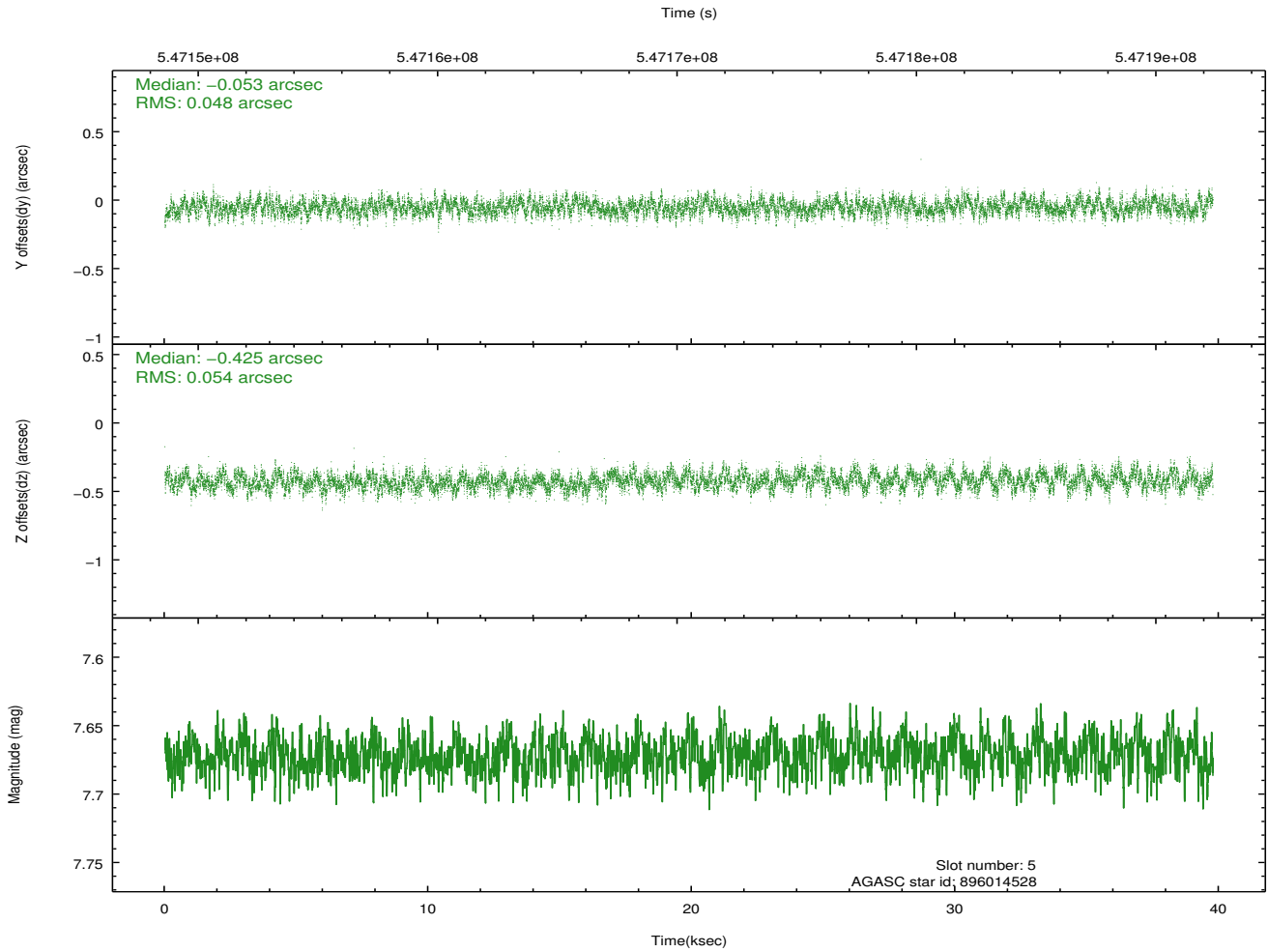
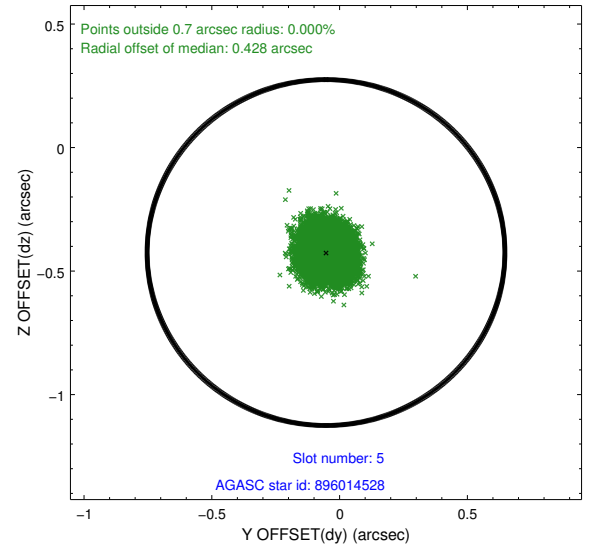
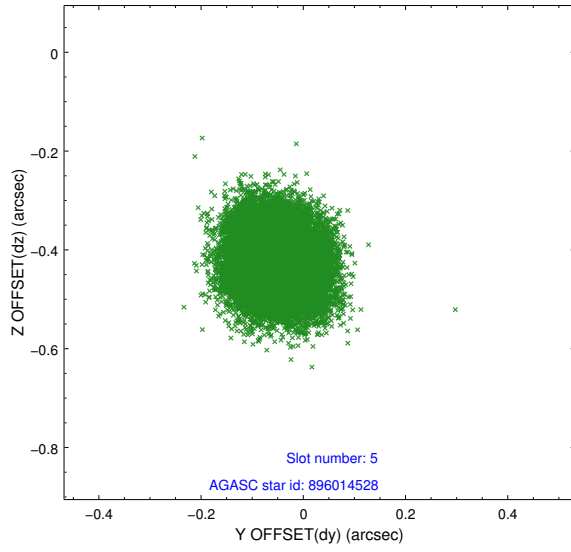
2.4.1 Slot 3



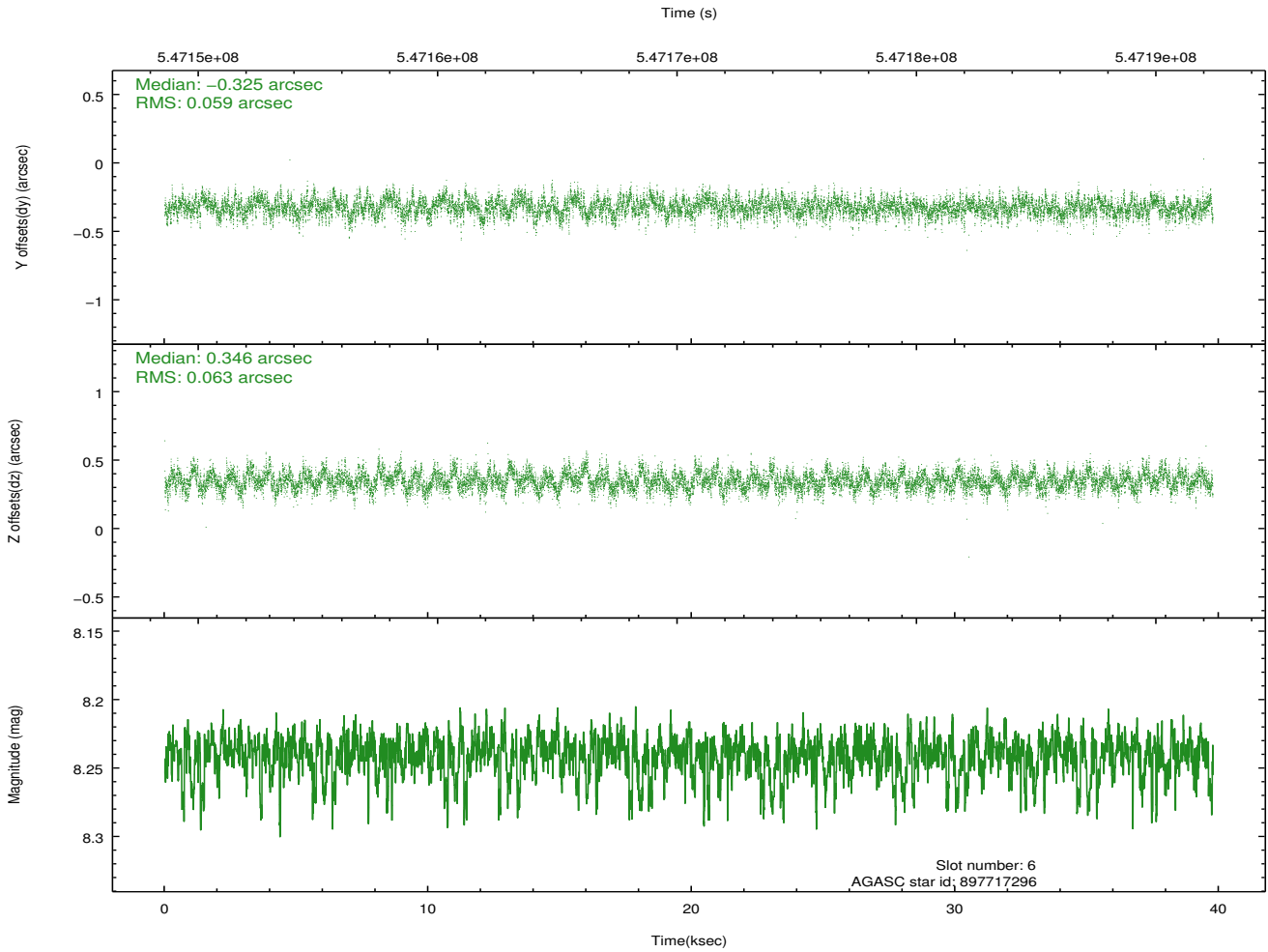
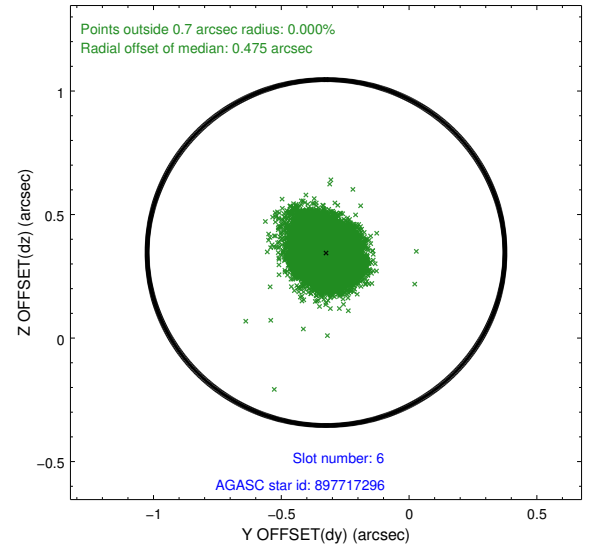
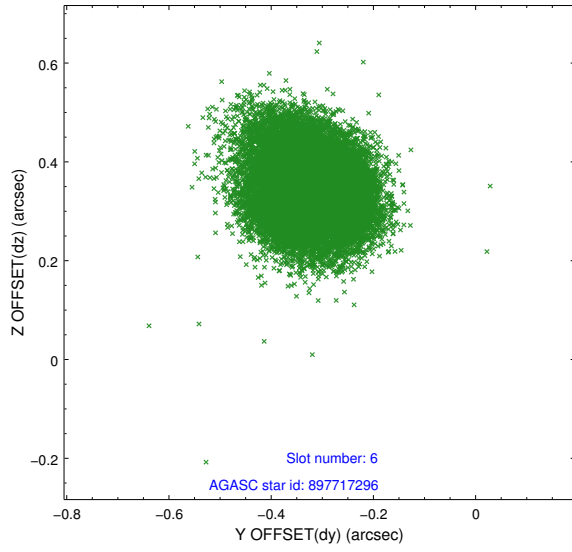
2.4.2 Slot 4



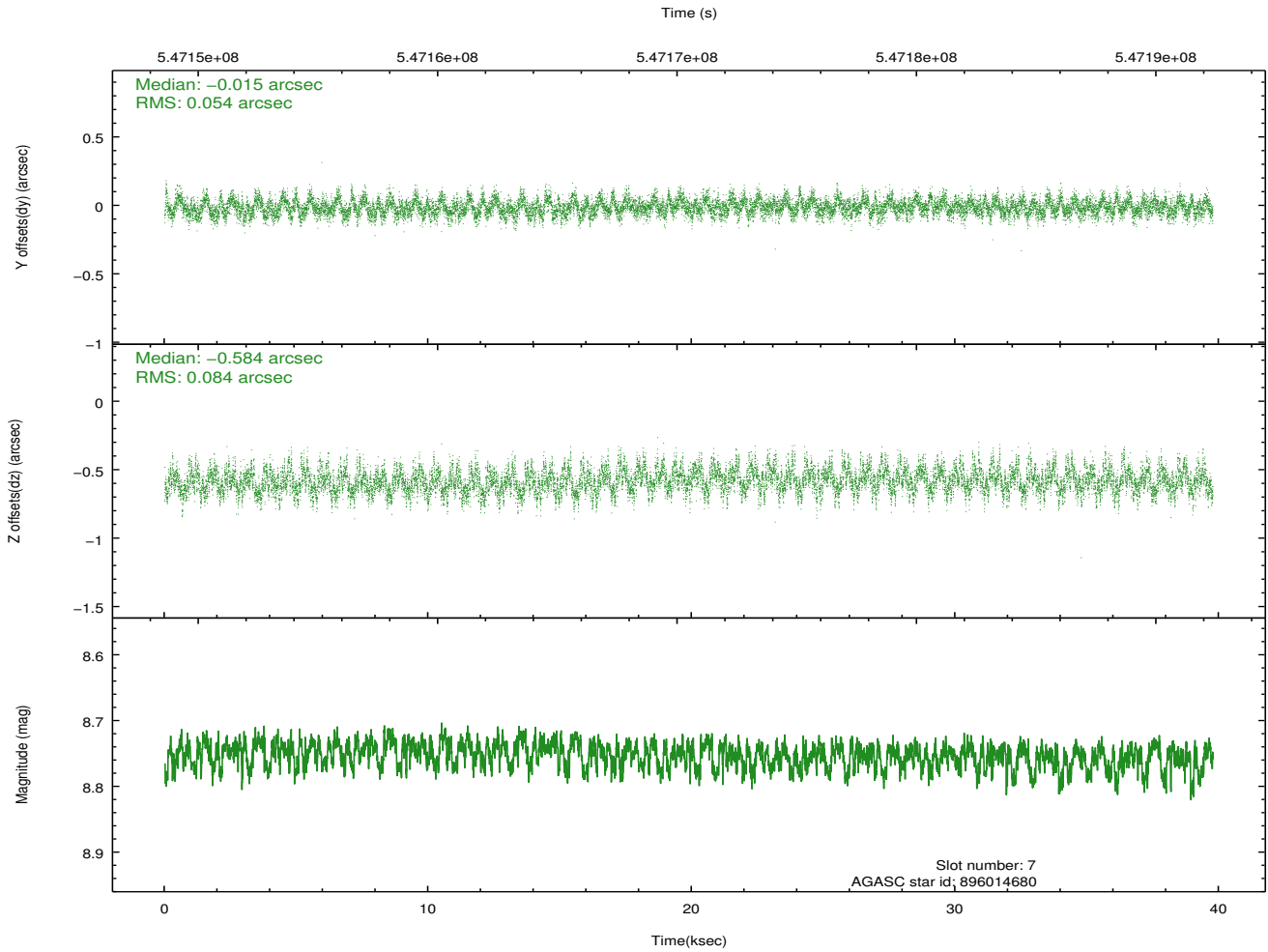
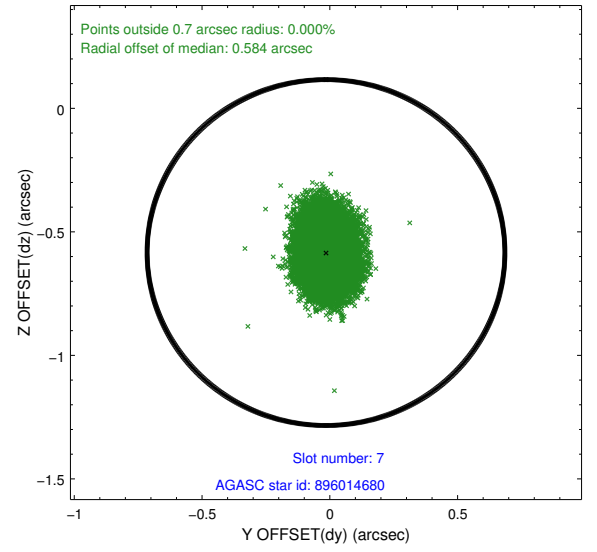
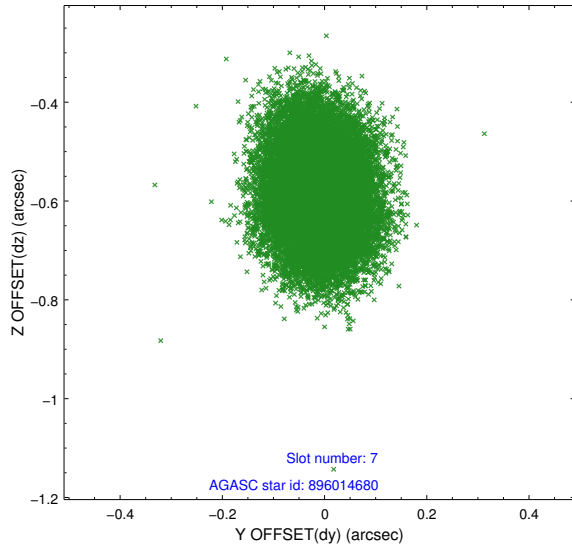
2.4.3 Slot 5



2.4.4 Slot 6

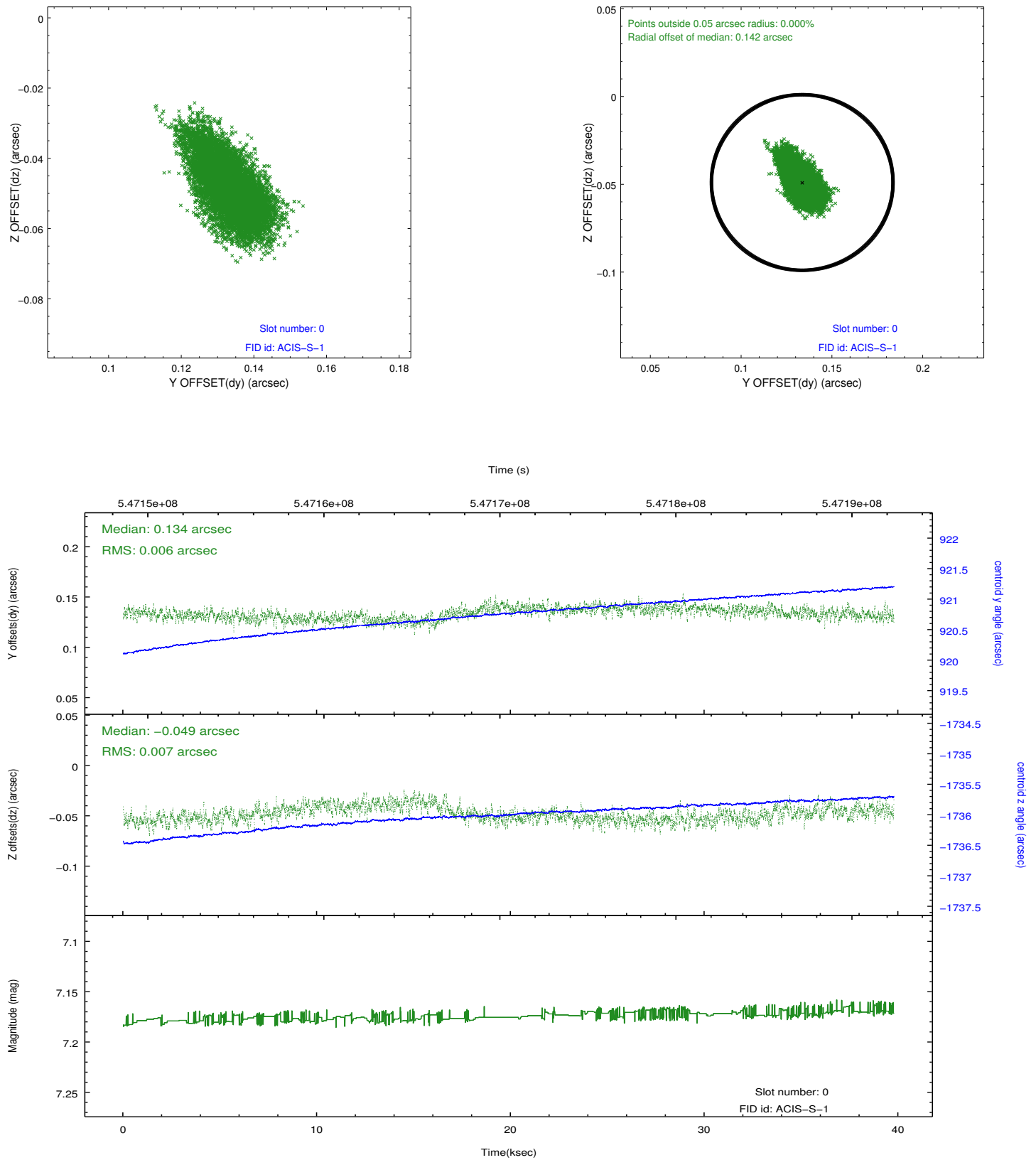


2.4.5 Slot 7

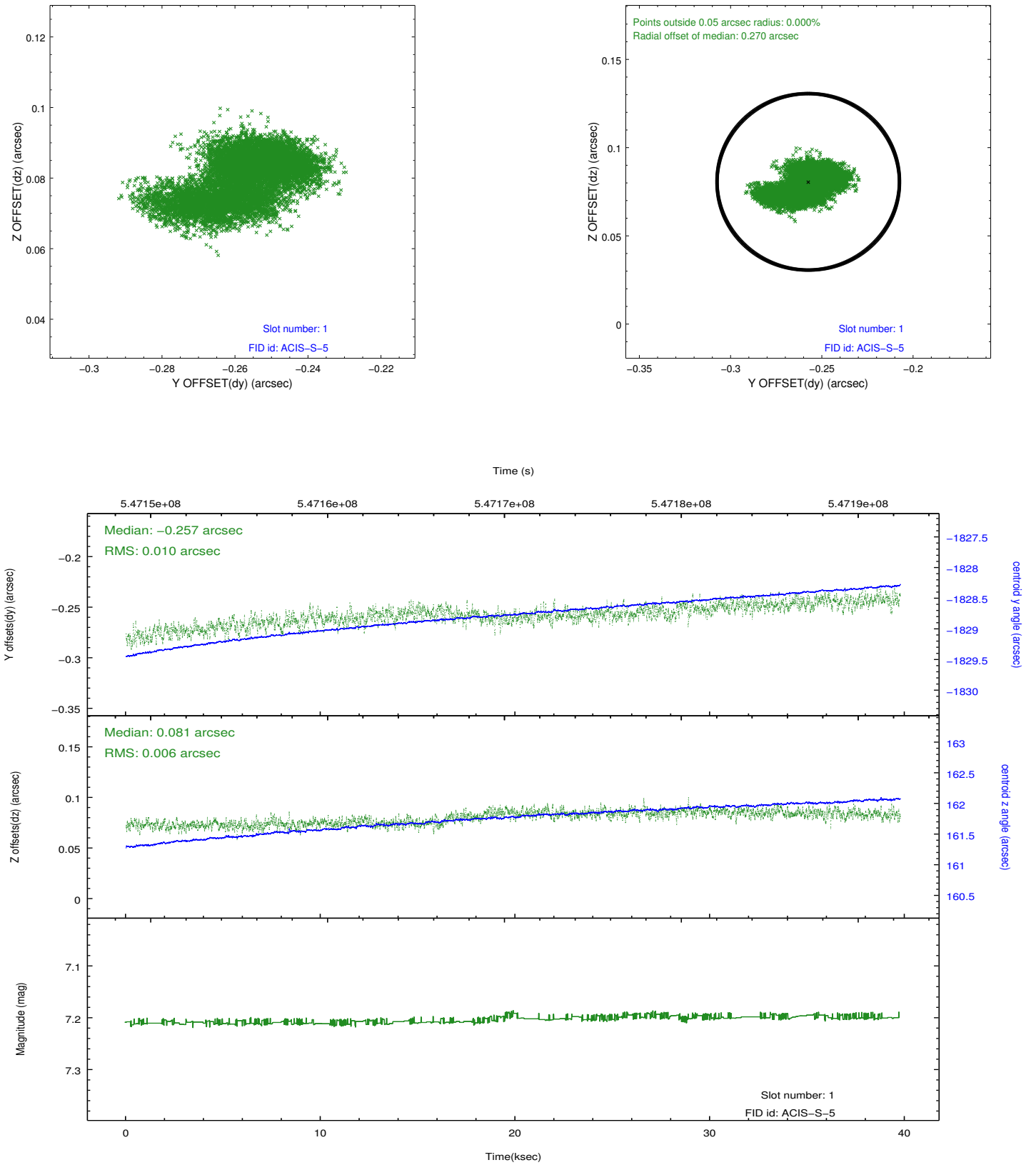


2.5 FID Slots

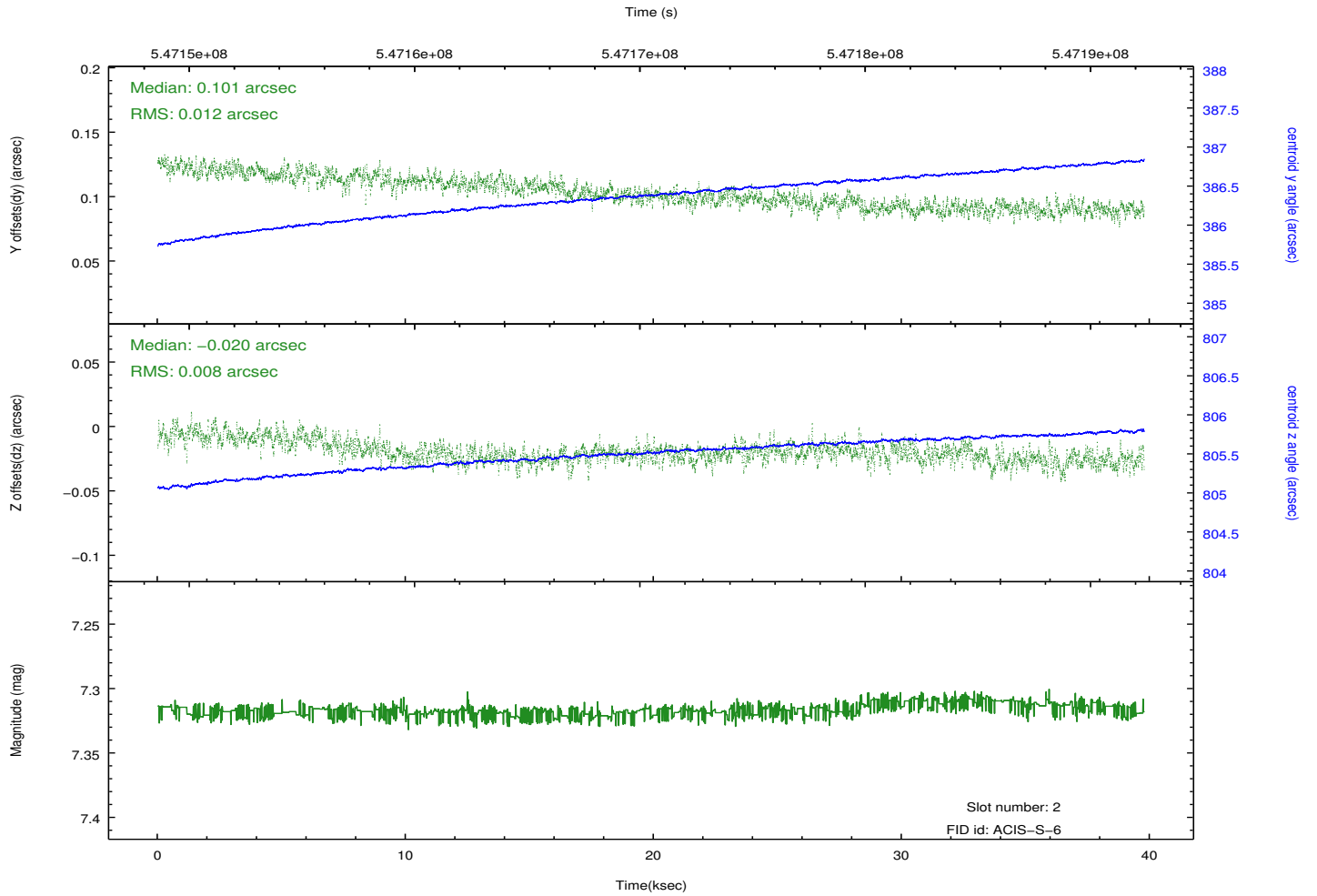
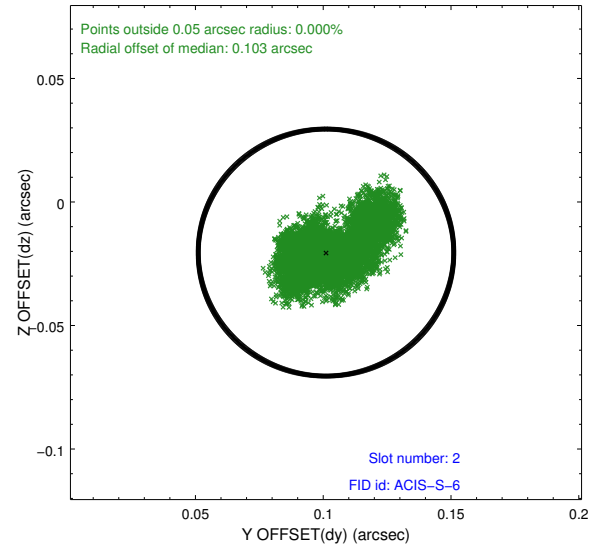
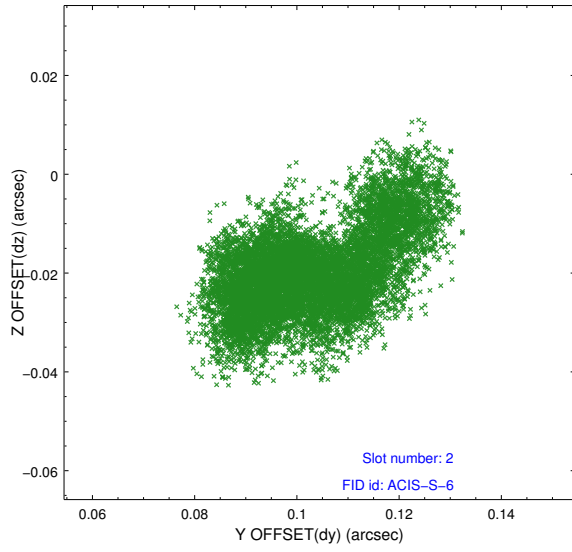
2.5.1 Slot 0



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)	2015.05.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.277000302196

A.2 Comments