

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4285 - L2 Version 3
Chandra X-Ray Center

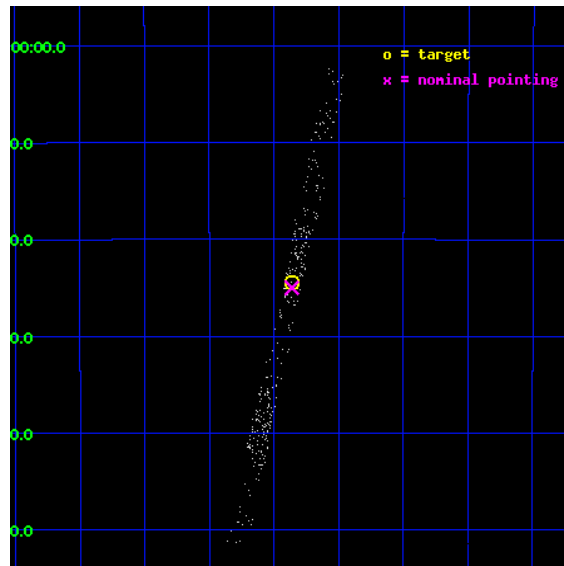
L2 Processing Date : Oct 11 2012

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1 Front

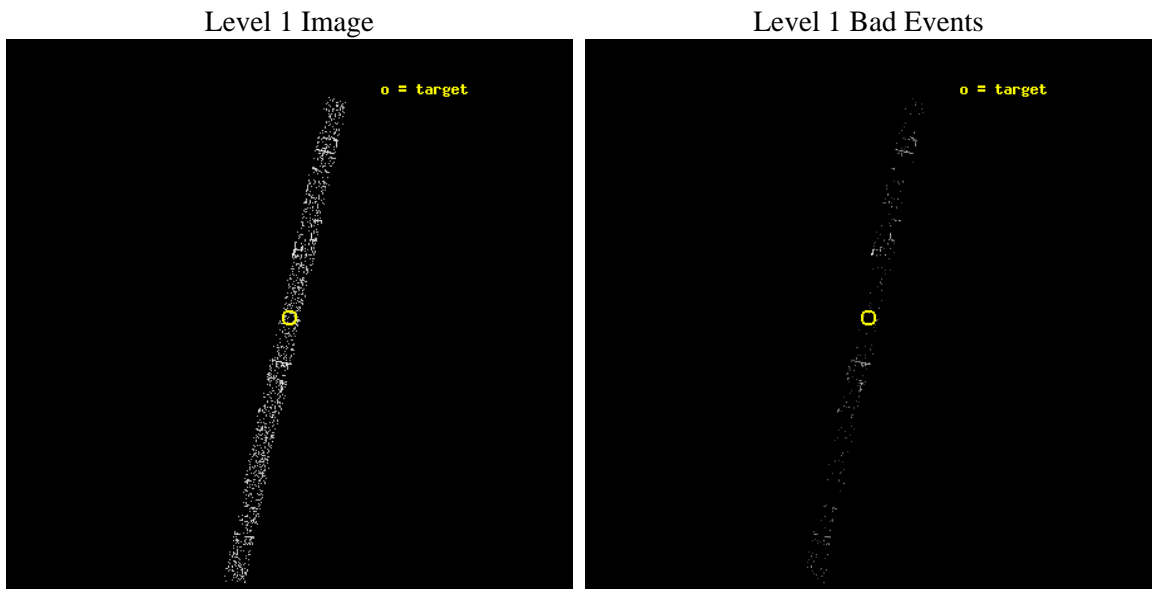
seq_num	400315	Sequence number
obs_id	4285	Observation id
title	V4641 SGR DURING OUTBURST: FAST JETS & VARIABLE CORE	Proposal titl
observer	DR. Michael Rupen	Principal investigator
object	V4641SGR	Source name
dtycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	274.84	Observer's specified target RA [deg]
dec_targ	-25.407111	Observer's specified target Dec [deg]
ra_nom	274.84036537682	Nominal RA [deg]
dec_nom	-25.416795637706	Nominal Dec [deg]
roll_nom	282.15679738191	Nominal Roll [deg]
revision	3	Processing version of data
ontime	373.37485313416	Sum of GTIs [s]
livetime	79.176413665068	Livetime [s]
ontime4	373.37485313416	Sum of GTIs [s]
ontime5	373.37485313416	Sum of GTIs [s]
ontime6	373.37485313416	Sum of GTIs [s]
ontime7	373.37485313416	Sum of GTIs [s]
ontime8	373.37485313416	Sum of GTIs [s]
ontime9	373.37485313416	Sum of GTIs [s]
l2events	314	Number of level 2 events



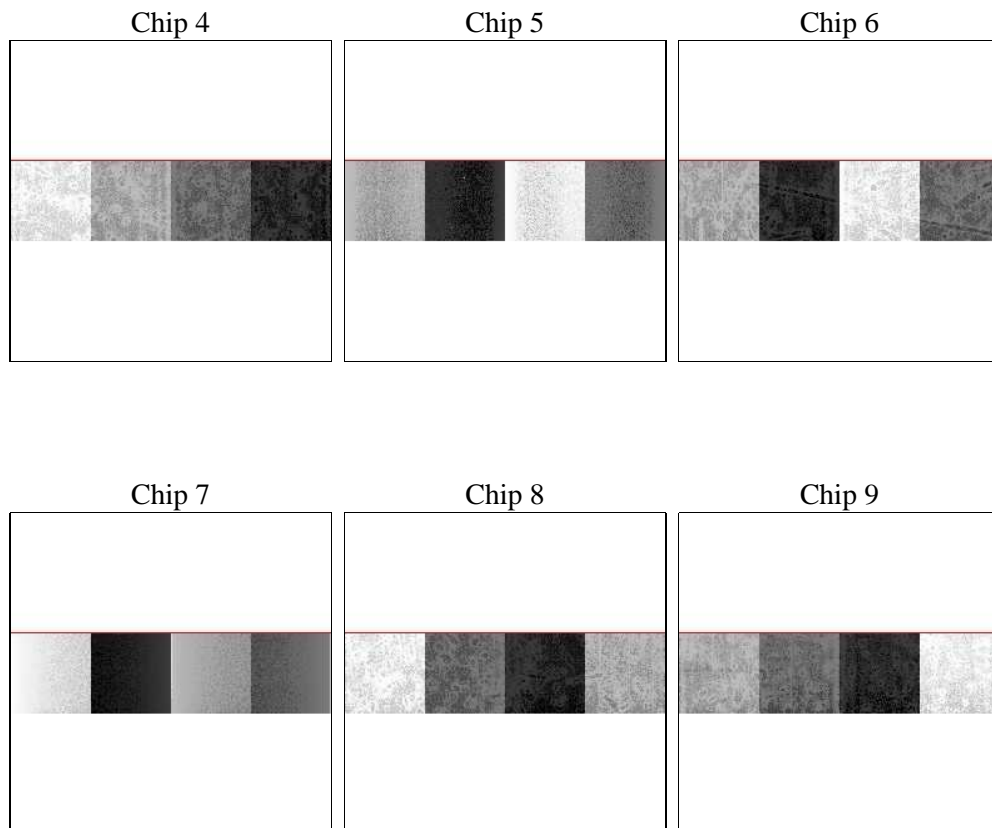
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	373.37485313416	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	373.37485313416	Sum of GTIs [s]
date	2012-10-11T21:13:44	Date and time of file creation	ontime5	373.37485313416	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	373.37485313416	Sum of GTIs [s]
			ontime7	373.37485313416	Sum of GTIs [s]
			ontime8	373.37485313416	Sum of GTIs [s]
			ontime9	373.37485313416	Sum of GTIs [s]
			l1events	2244	Number of level 1 events

2.1.4 Events

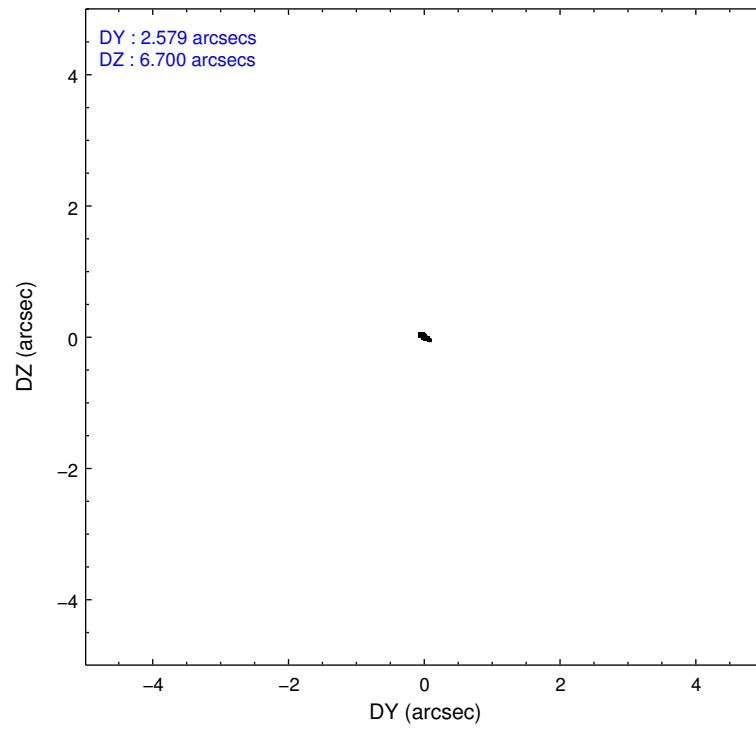
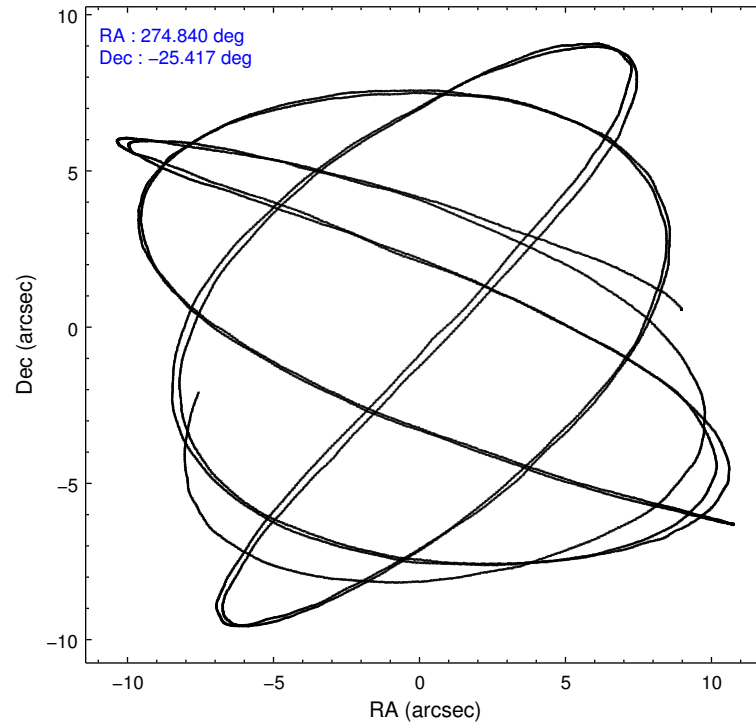
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	338	312	459	281	480	374
rejected events	313	195	419	185	417	337
rejected %	92%	62%	91%	65%	86%	90%

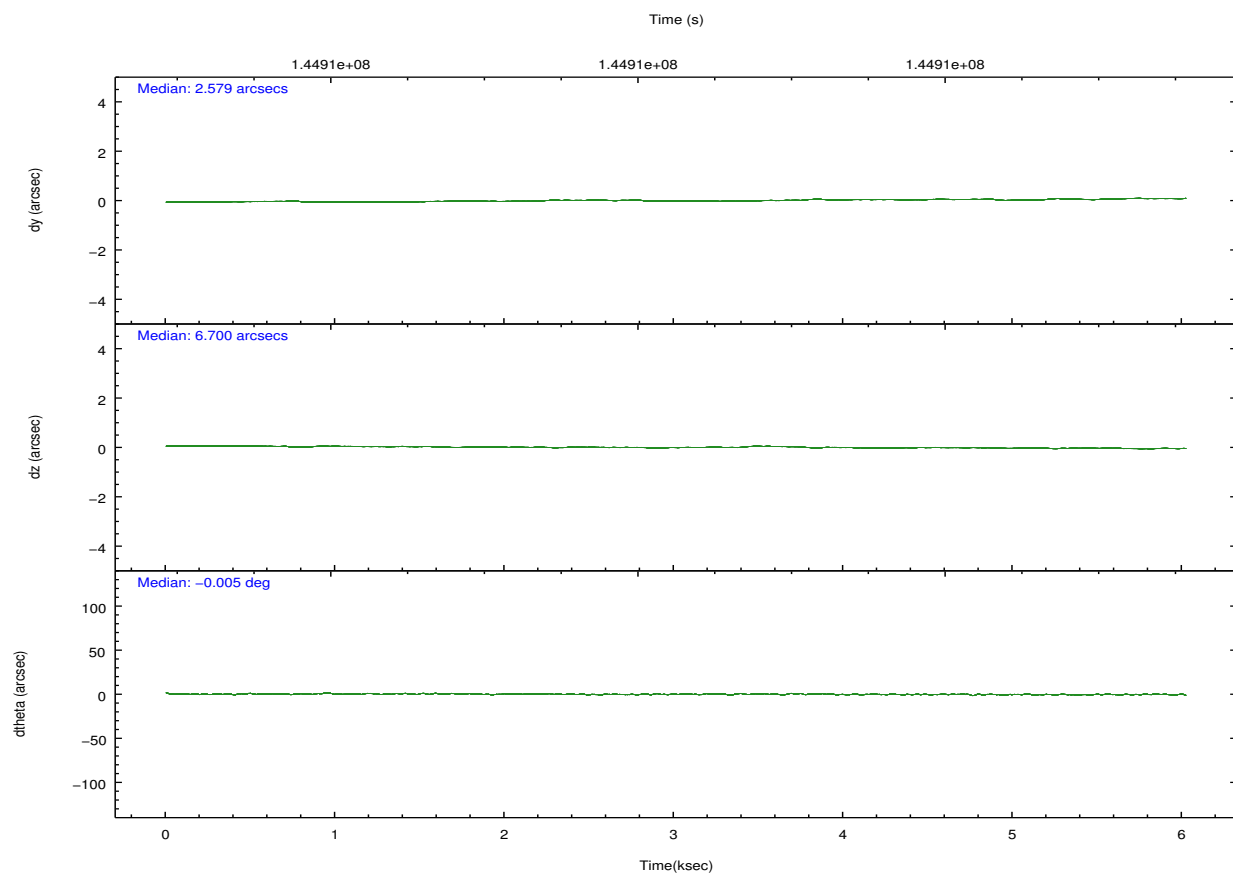
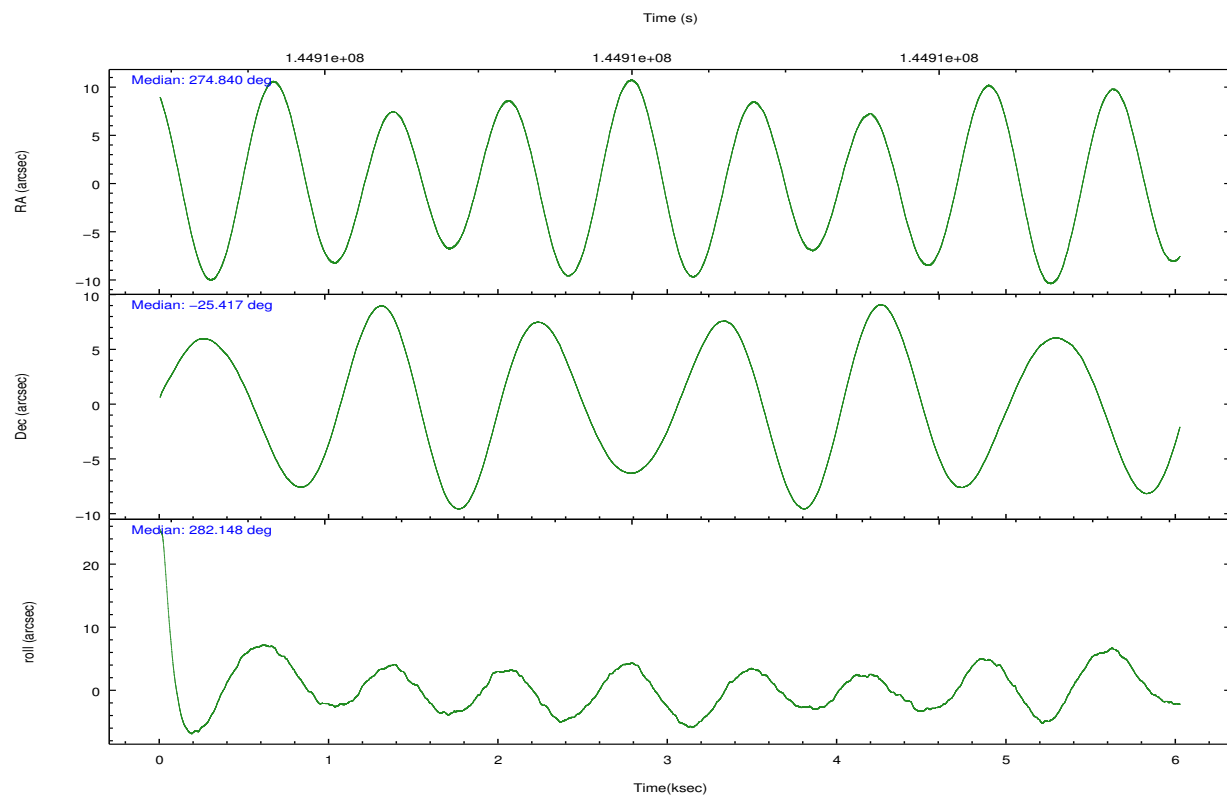
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9	8	8	15	19	16
	2%	2%	1%	5%	3%	4%
grade 1 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	4	34	12	23	12	5
	1%	10%	2%	8%	2%	1%
grade 3 events	2	8	7	9	6	5
	0%	2%	1%	3%	1%	1%
grade 4 events	4	12	6	19	9	2
	1%	3%	1%	6%	1%	0%
grade 5 events	3	30	12	24	18	9
	0%	9%	2%	8%	3%	2%
grade 6 events	6	55	7	32	18	9
	1%	17%	1%	11%	3%	2%
grade 7 events	310	165	407	159	398	328
	91%	52%	88%	56%	82%	87%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	274.819853	274.8403653768183	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-25.396841	-25.41679563770612	Subarray start row	385	385
[deg] Pointing Roll	281.991357	282.1567973819131	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	Y	Y
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.200000	0.3
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	[s] Secondary exposure time	0.000000	3.2
[mm] SIM translation stage offset	0	0.00754346686406393	Duty cycle	5	5
[s] Observation start time (MET)	144908260.184000	144906880.29628			
Observation start date	2002-08-05T04:16:36	2002-08-05T03:54:40			
[s] Observation end time (MET)	144913260.184000	144914877.34661			
Observation end date	2002-08-05T05:39:56	2002-08-05T06:07:57			
Read mode	TIMED	TIMED			

2.3 Aspect



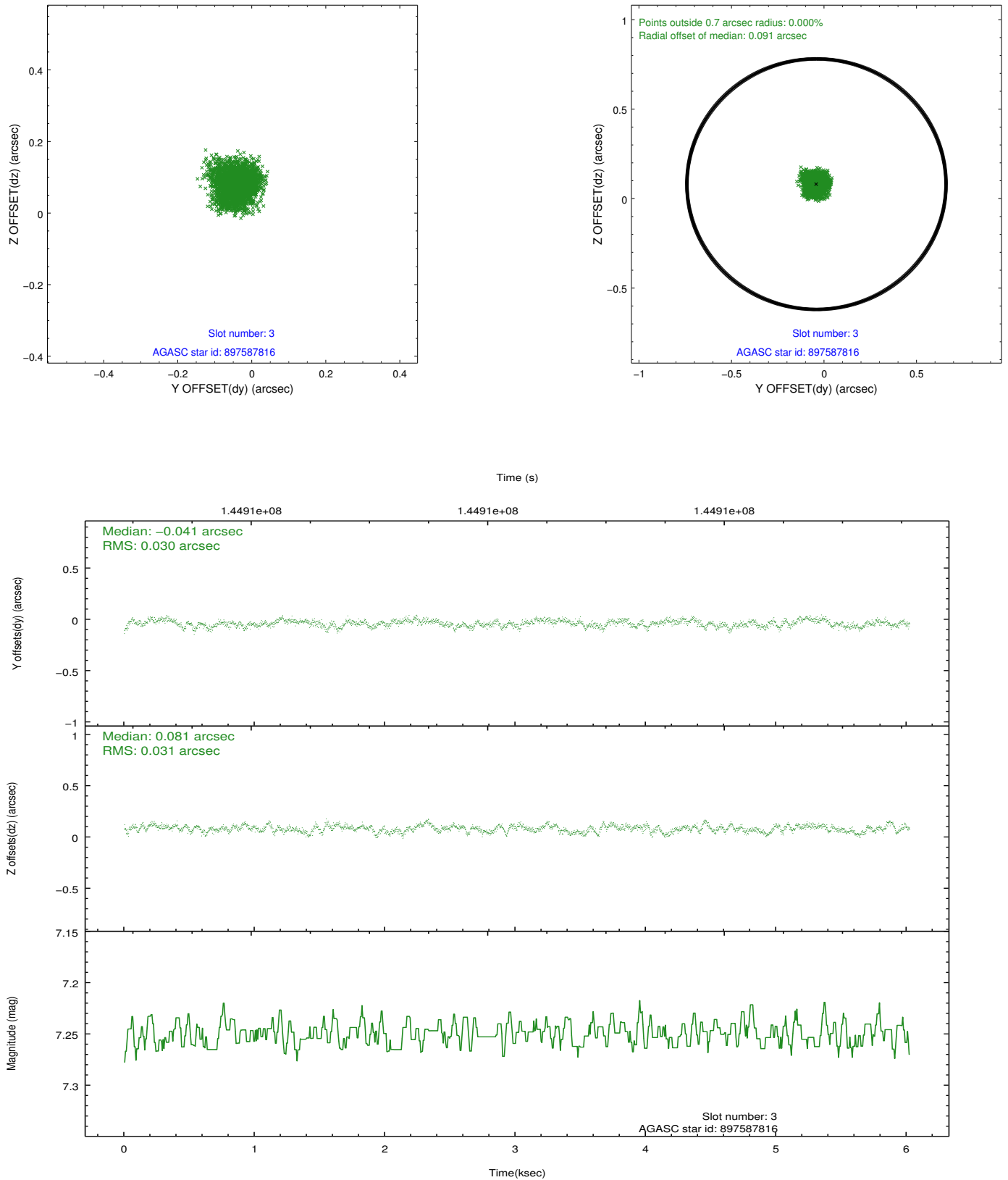


Slot Statistics

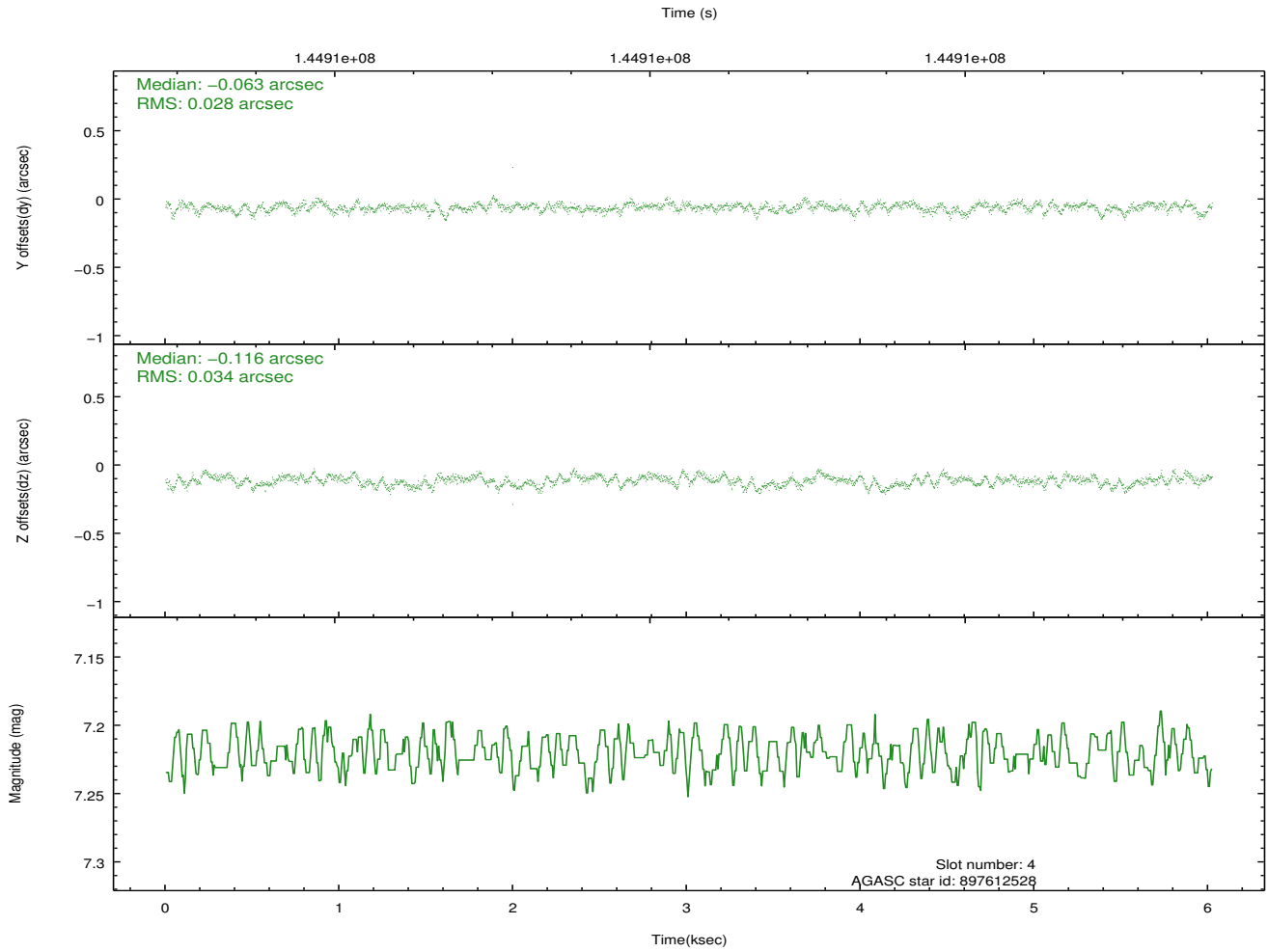
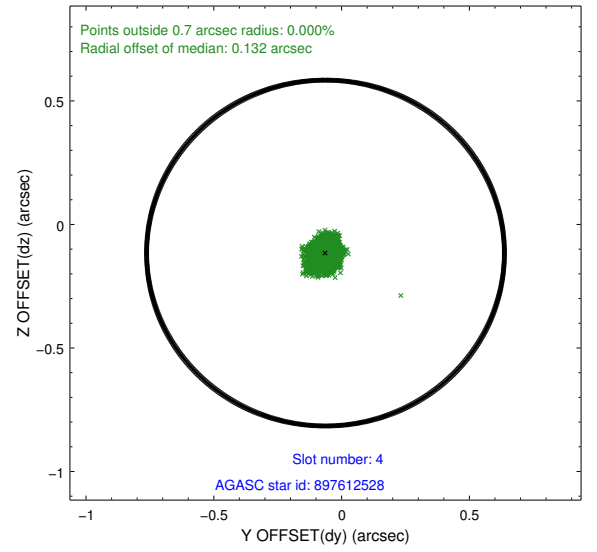
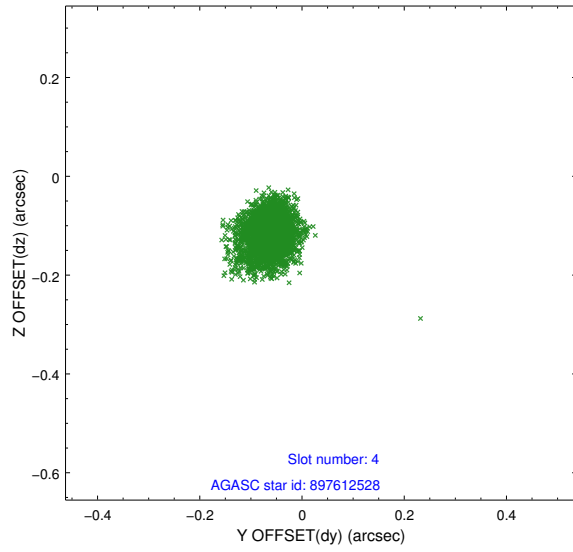
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1469	-0.027	0.006	0.008	0.013	0.000000	0.000000	-755.22	-1727.86
1	FID	ACIS-S-4	7.21	1469	-0.020	0.012	0.006	0.010	0.000000	0.000000	2157.60	179.64
2	FID	ACIS-S-5	7.24	1470	0.017	-0.008	0.007	0.012	0.000000	0.000000	-1806.77	174.37
3	GUIDE	897587816	7.25	2938	-0.041	0.081	0.047	0.075	274.674880	-25.935265	1798.20	-861.24
4	GUIDE	897612528	7.22	2938	-0.063	-0.116	0.047	0.075	274.400257	-25.341874	-475.03	-1294.90
5	GUIDE	897588456	9.11	2933	0.034	0.054	0.082	0.130	275.492900	-25.751784	1707.70	1868.30
6	GUIDE	897607632	9.05	2938	0.067	0.016	0.105	0.164	275.528210	-25.239953	-67.62	2373.26
7	GUIDE	897601280	9.71	2937	0.006	-0.028	0.109	0.179	274.221964	-25.156854	-1246.07	-1726.25

2.4 Star Slots

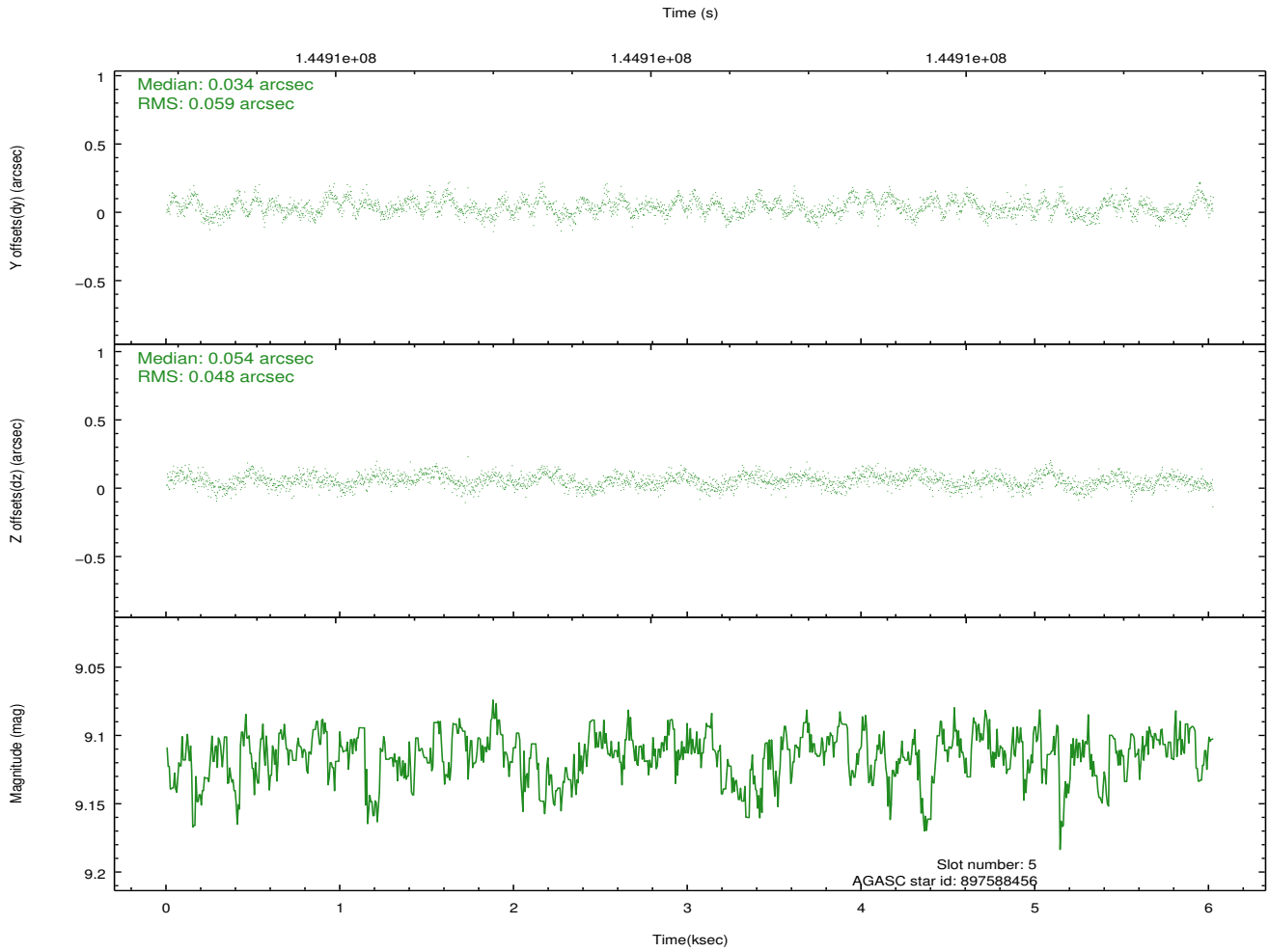
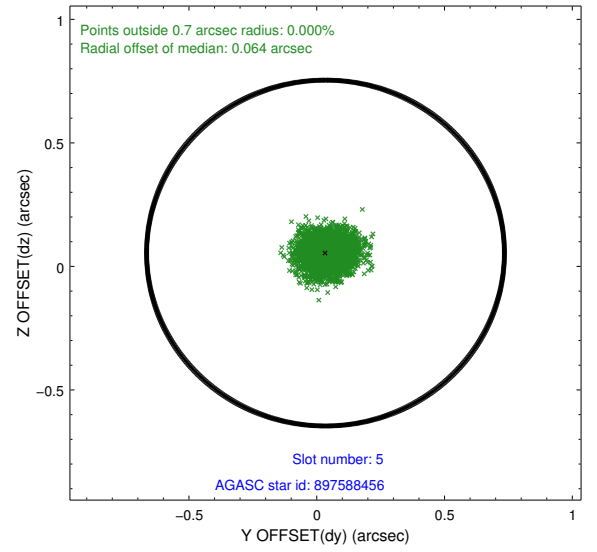
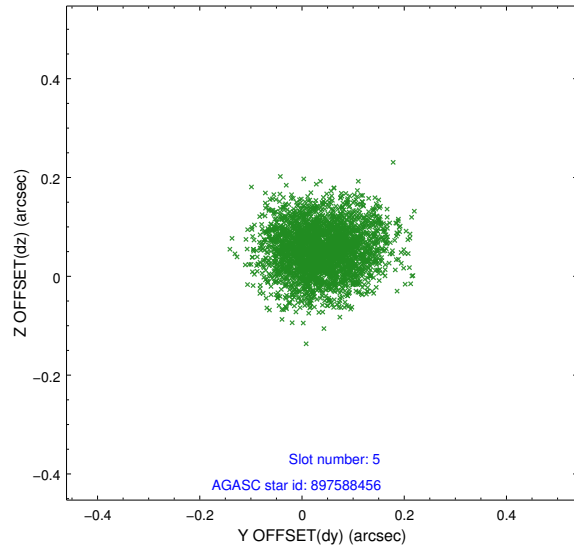
2.4.1 Slot 3



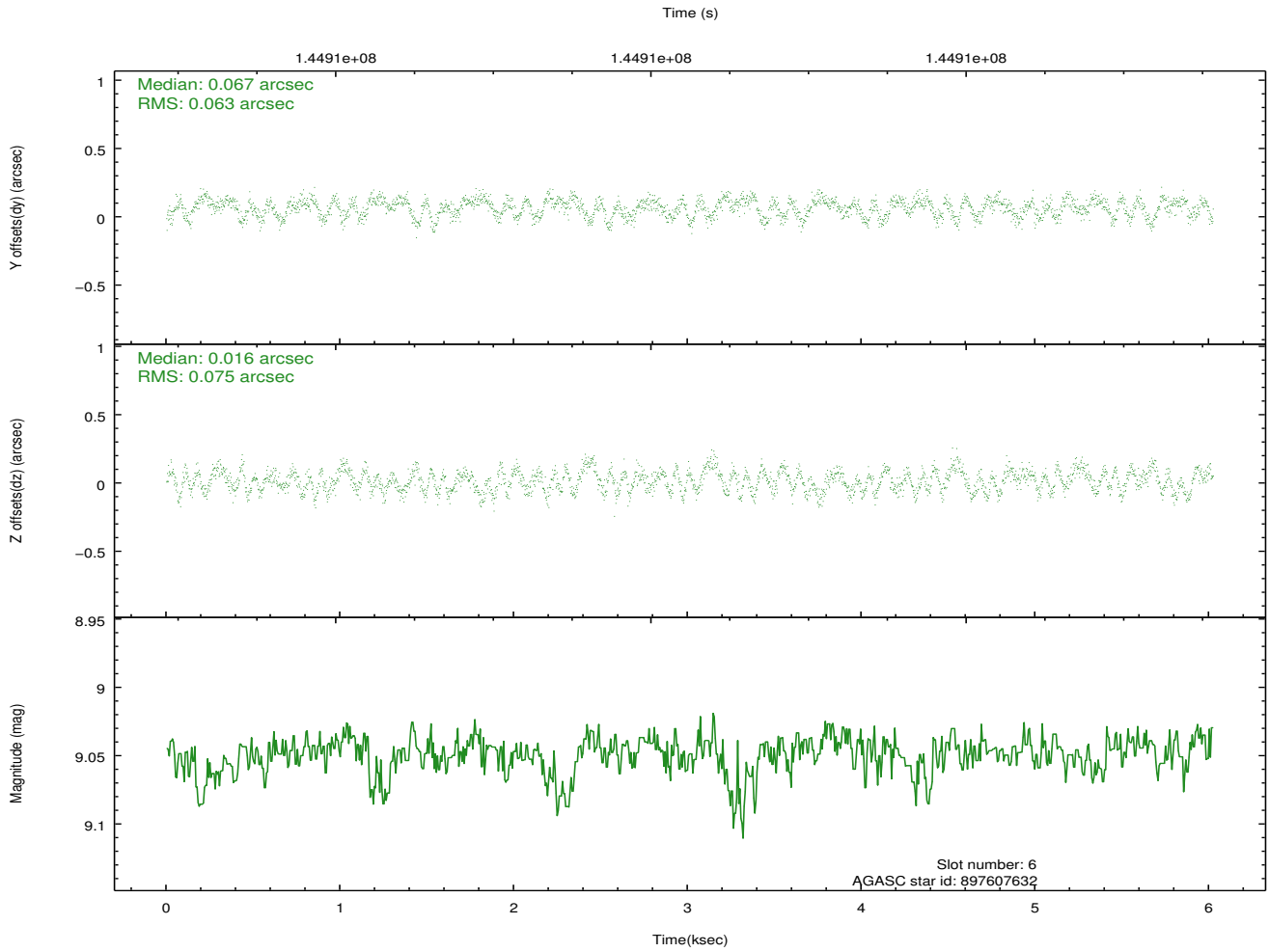
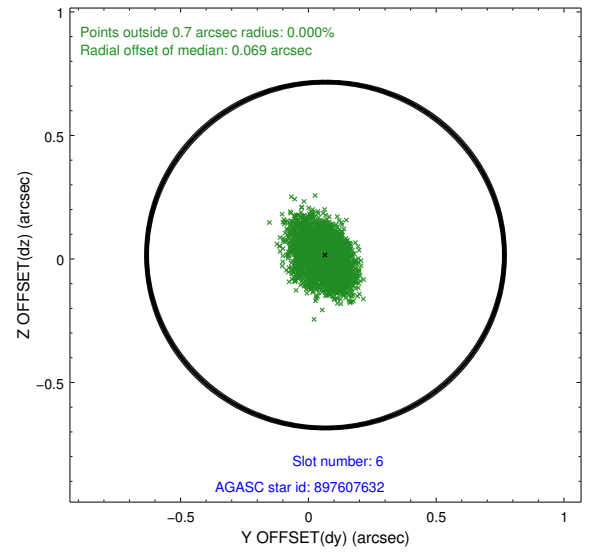
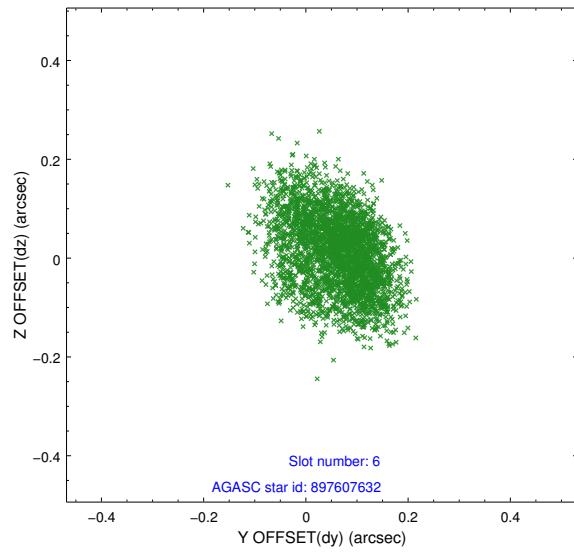
2.4.2 Slot 4



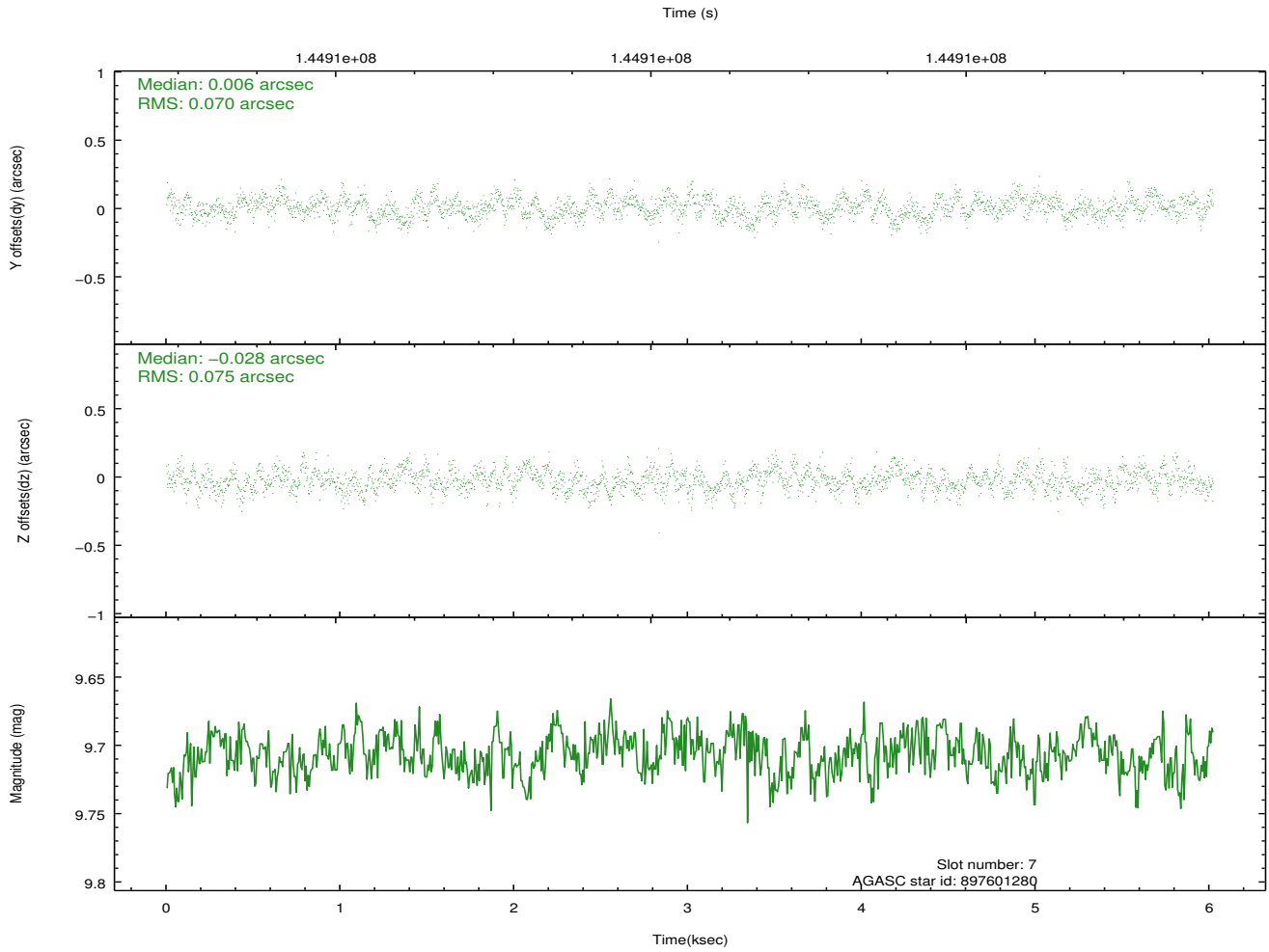
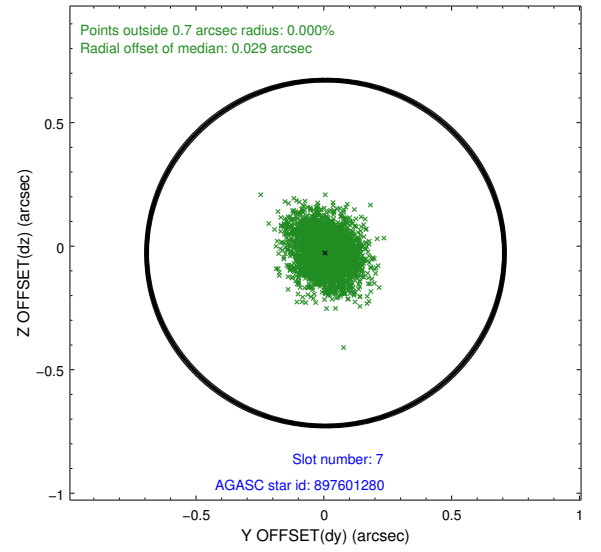
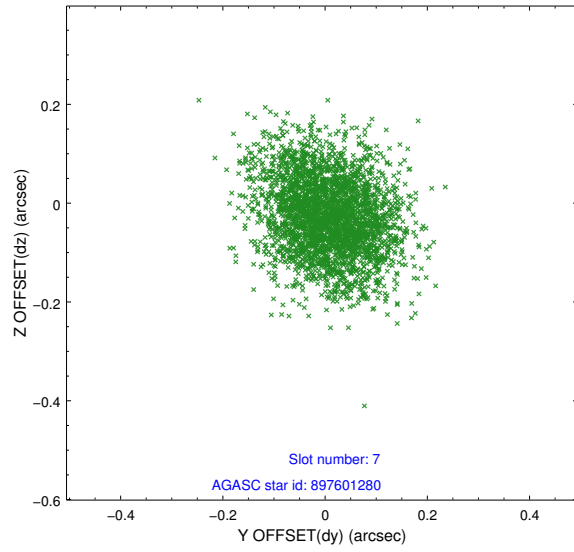
2.4.3 Slot 5



2.4.4 Slot 6

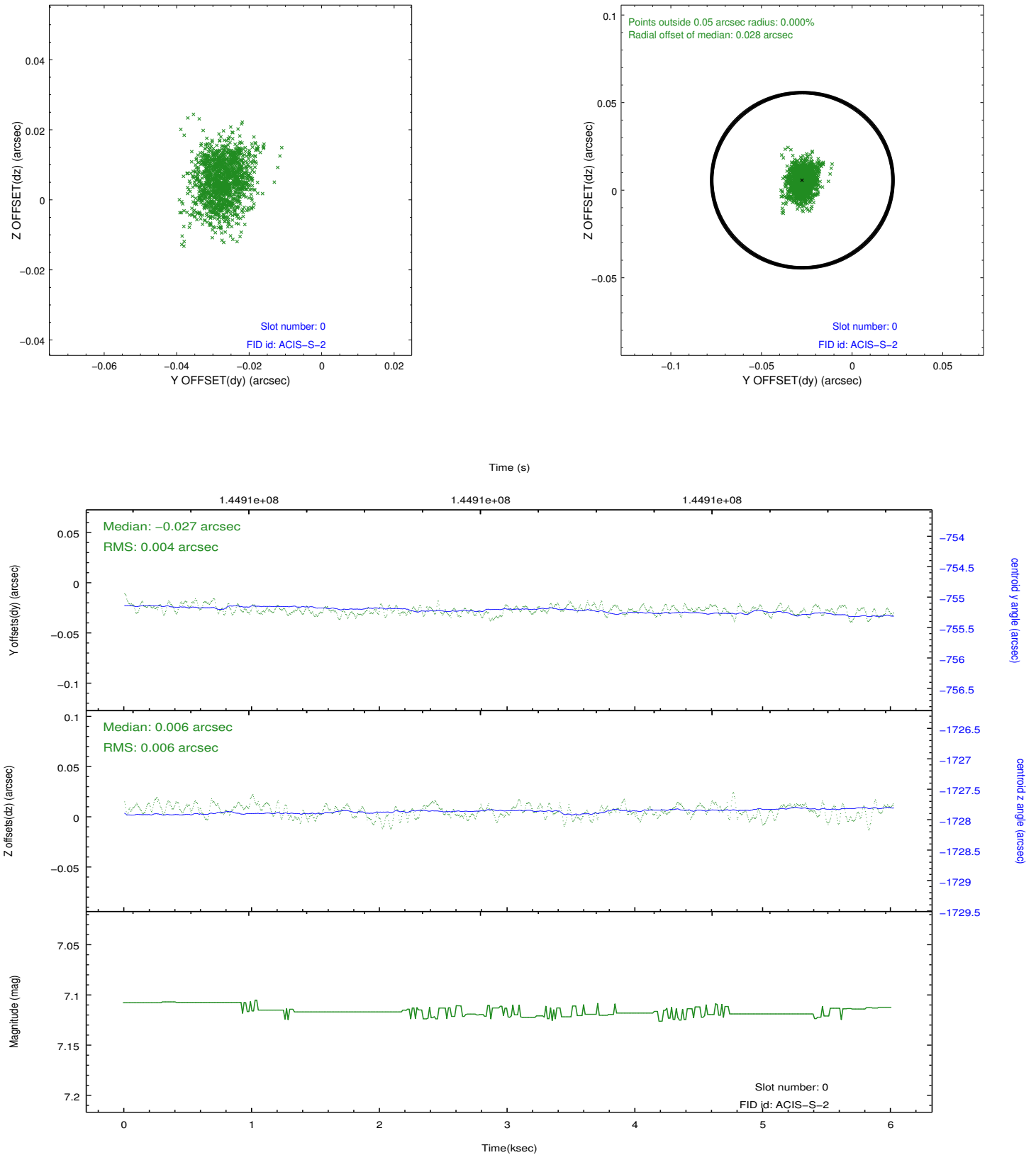


2.4.5 Slot 7

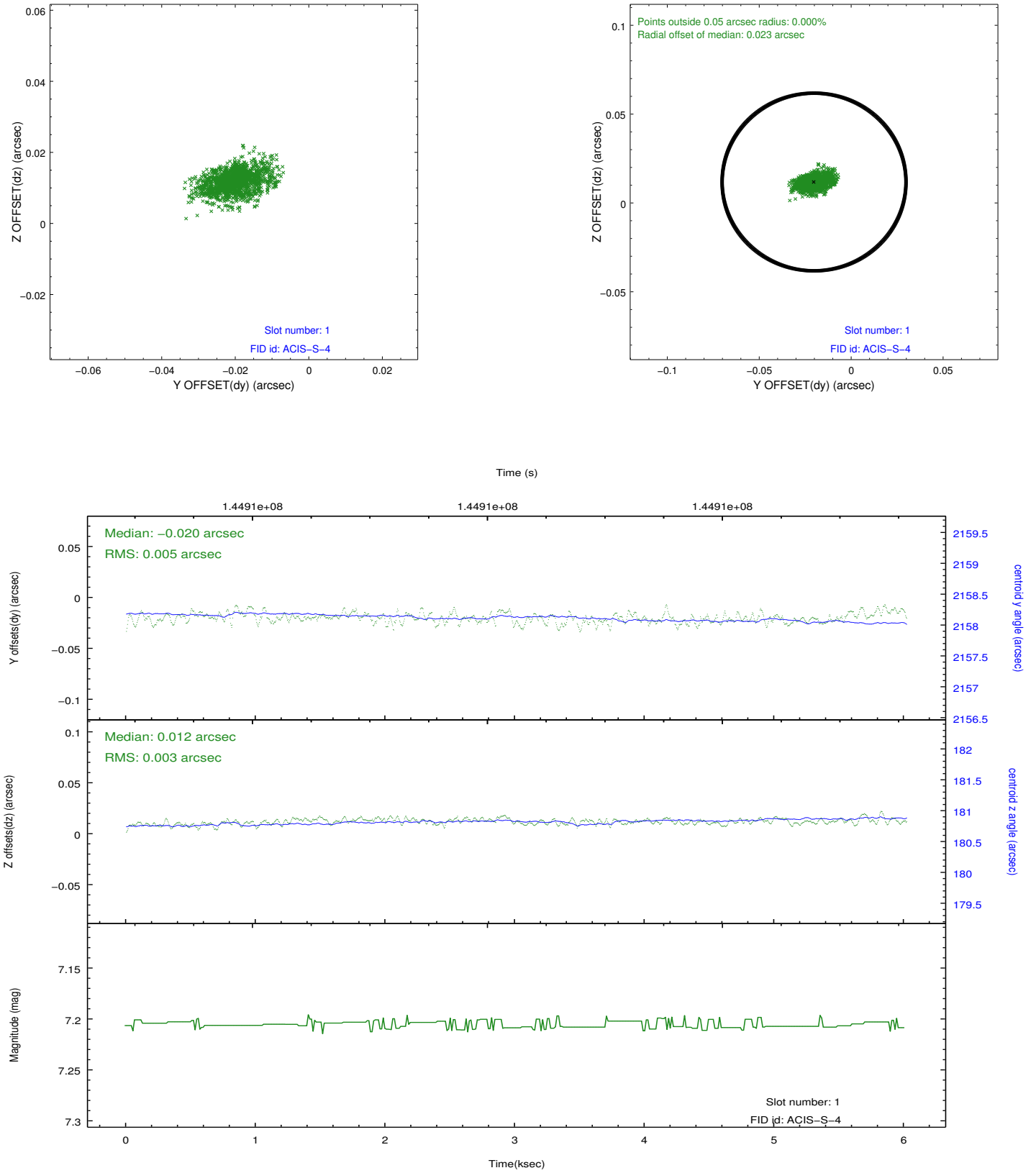


2.5 FID Slots

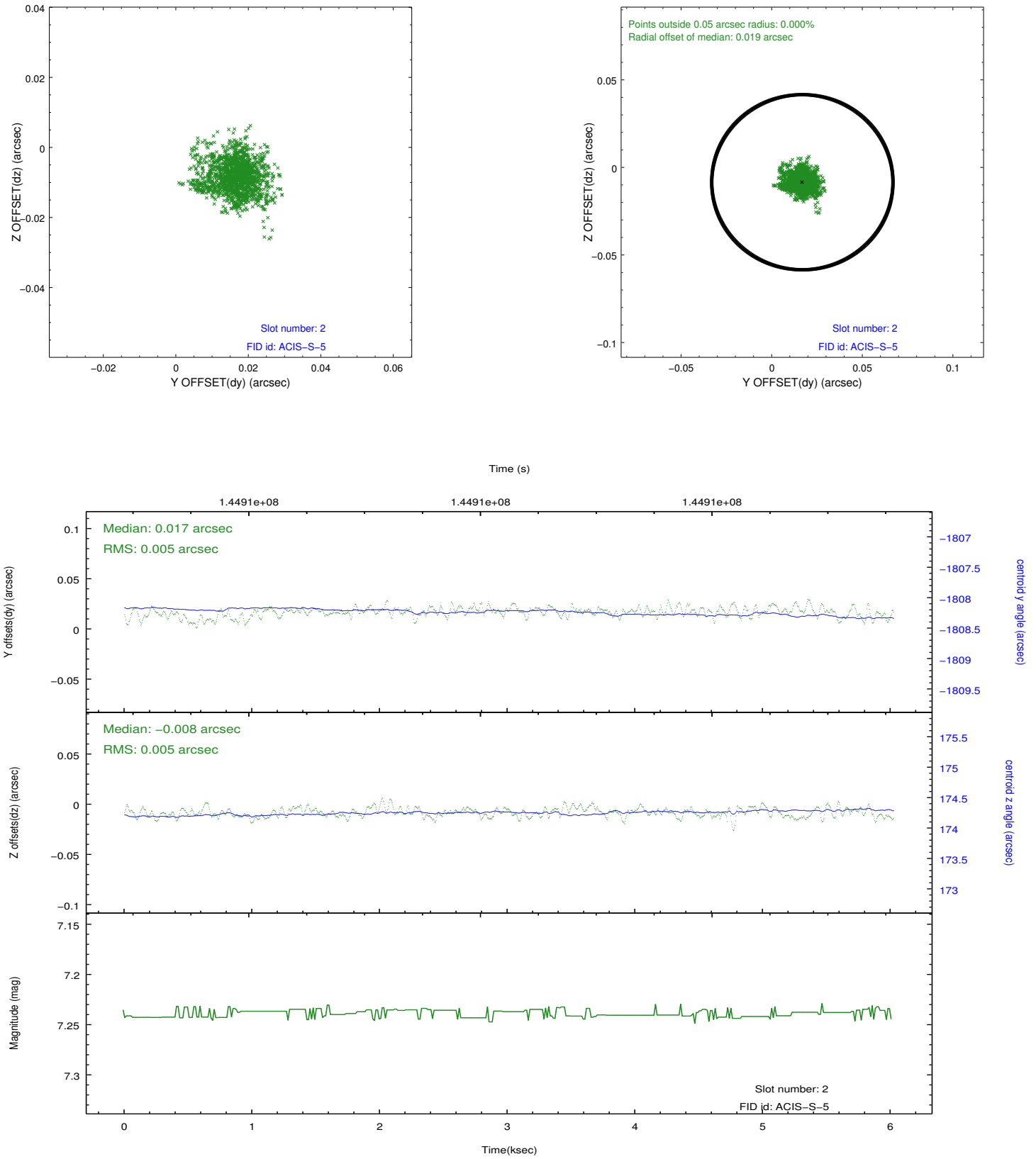
2.5.1 Slot 0



2.5.2 Slot 1



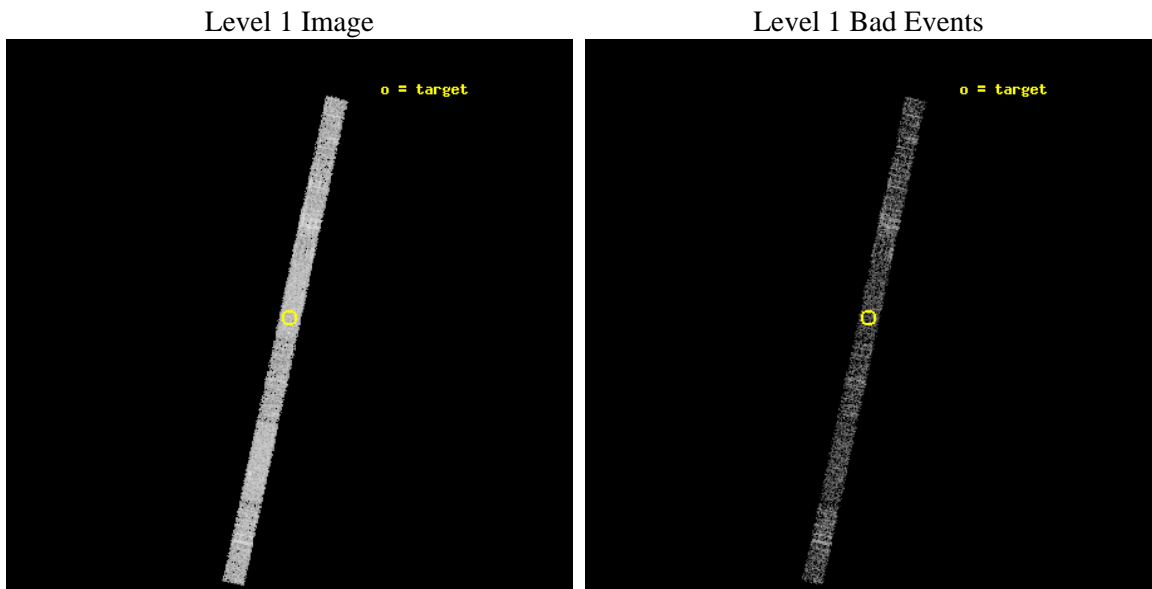
2.5.3 Slot 2



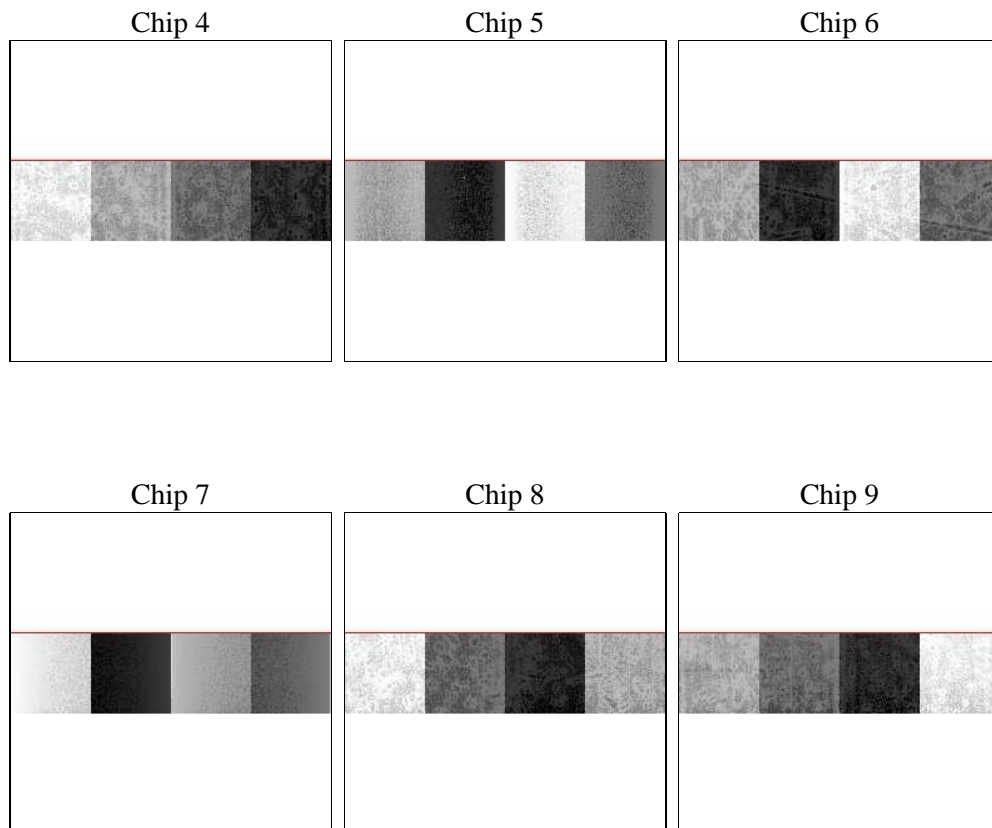
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4310.5973729193	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	4310.5973827839	Sum of GTIs [s]
date	2012-10-11T21:14:14	Date and time of file creation	ontime5	4310.5973231494	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4310.597363025	Sum of GTIs [s]
			ontime7	4310.5973729193	Sum of GTIs [s]
			ontime8	4310.5973331332	Sum of GTIs [s]
			ontime9	4310.5974527299	Sum of GTIs [s]
			l1events	38554	Number of level 1 events

3.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	5992	7530	4983	7347	7636	5066
rejected events	5106	3632	4129	3537	5603	4197
rejected %	85%	48%	82%	48%	73%	82%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	438	464	440	469	710	398
	7%	6%	8%	6%	9%	7%
grade 1 events	3	13	6	5	1	1
	0%	0%	0%	0%	0%	0%
grade 2 events	181	1170	151	809	375	185
	3%	15%	3%	11%	4%	3%
grade 3 events	68	201	60	374	217	70
	1%	2%	1%	5%	2%	1%
grade 4 events	77	195	68	356	216	72
	1%	2%	1%	4%	2%	1%
grade 5 events	226	591	218	709	313	241
	3%	7%	4%	9%	4%	4%
grade 6 events	124	1876	135	1810	515	145
	2%	24%	2%	24%	6%	2%
grade 7 events	4875	3020	3905	2815	5289	3954
	81%	40%	78%	38%	69%	78%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.687

A.2 Comments

Roll preference: 288 degrees. Observed roll: 282 degrees.