

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15002 - L2 Version 2
Chandra X-Ray Center

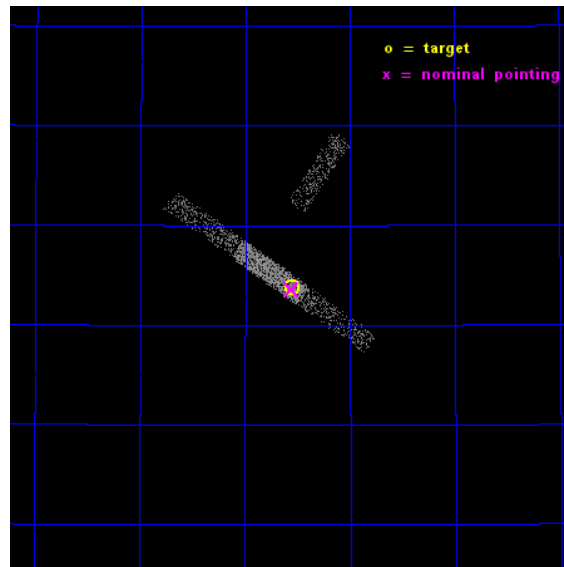
L2 Processing Date : Dec 1 2014

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1 Front

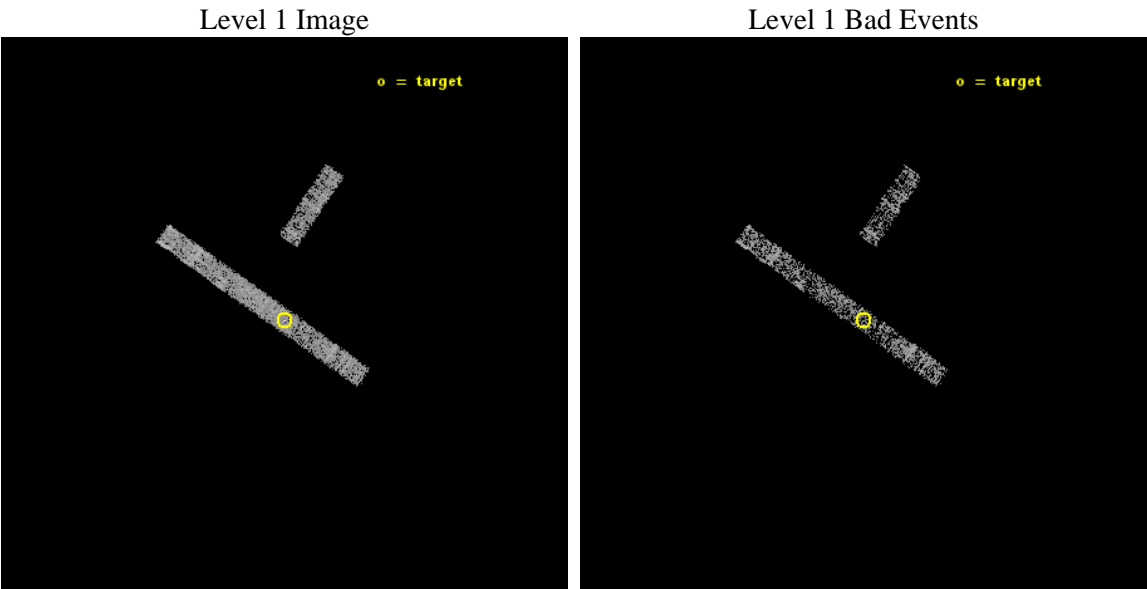
seq_num	702810	Sequence number
obs_id	15002	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C216	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	137.389583	Observer's specified target RA [deg]
dec_targ	42.89625	Observer's specified target Dec [deg]
ra_nom	137.38971075815	Nominal RA [deg]
dec_nom	42.893145579666	Nominal Dec [deg]
roll_nom	214.60892915535	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2084.8990294337	Sum of GTIs [s]
livetime	2002.7078973274	Livetime [s]
ontime3	2084.8169494271	Sum of GTIs [s]
ontime6	2084.8579894304	Sum of GTIs [s]
ontime7	2084.8990294337	Sum of GTIs [s]
ontime8	2084.7759094238	Sum of GTIs [s]
l2events	3227	Number of level 2 events



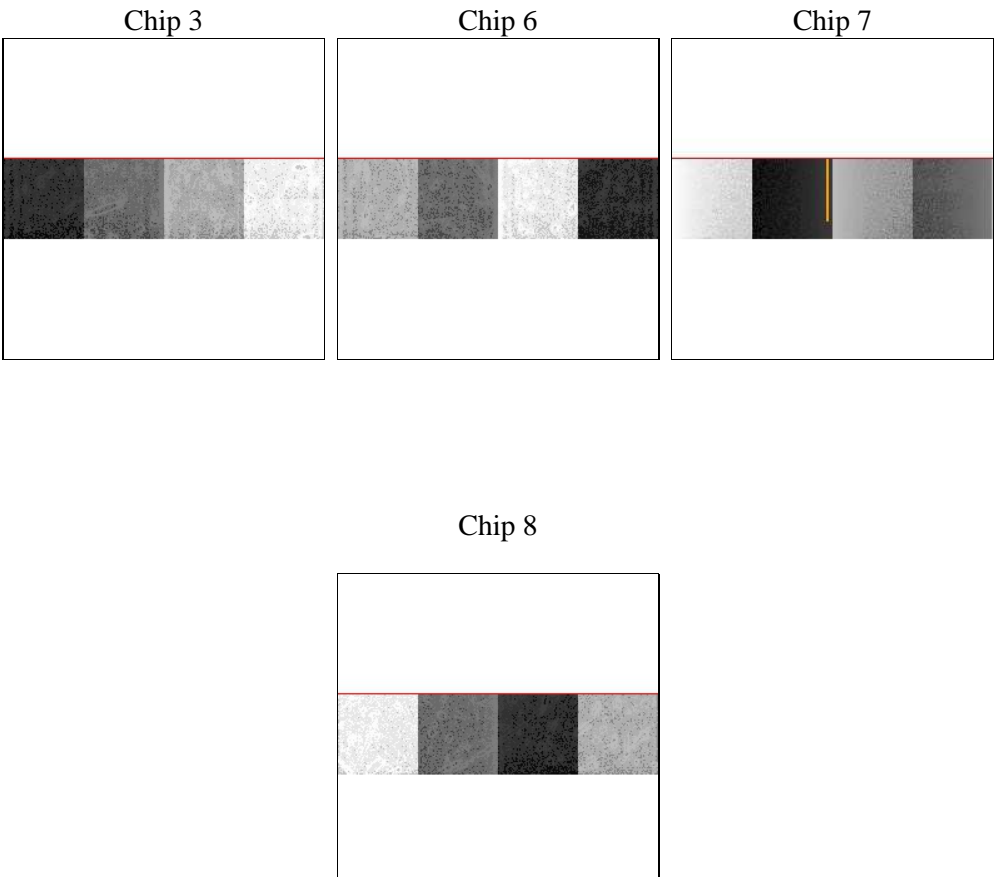
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2084.8990294337	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	2084.8169494271	Sum of GTIs [s]
date	2014-12-01T17:05:36	Date and time of file creation	ontime6	2084.8579894304	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	2084.8990294337	Sum of GTIs [s]
			ontime8	2084.7759094238	Sum of GTIs [s]
			l1events	15605	Number of level 1 events

2.1.4 Events

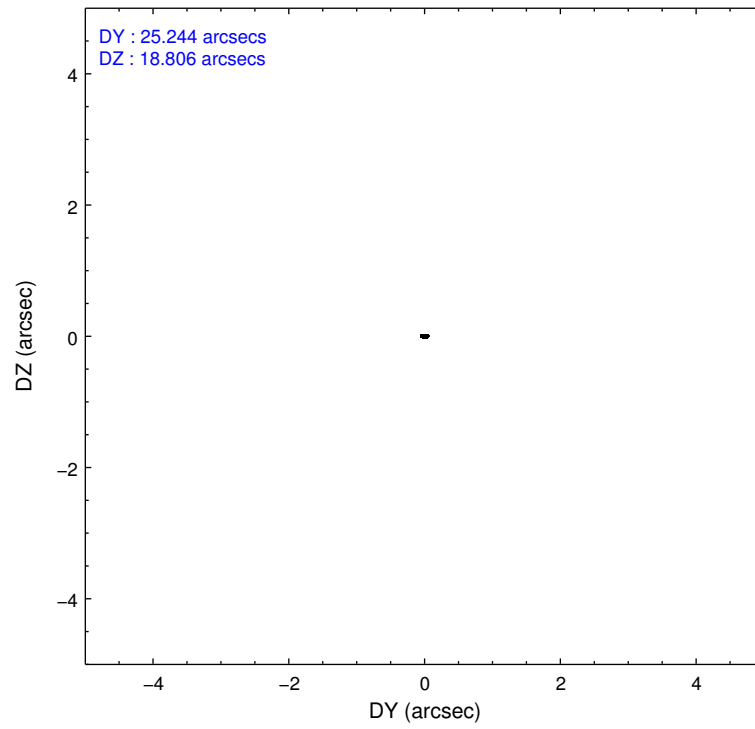
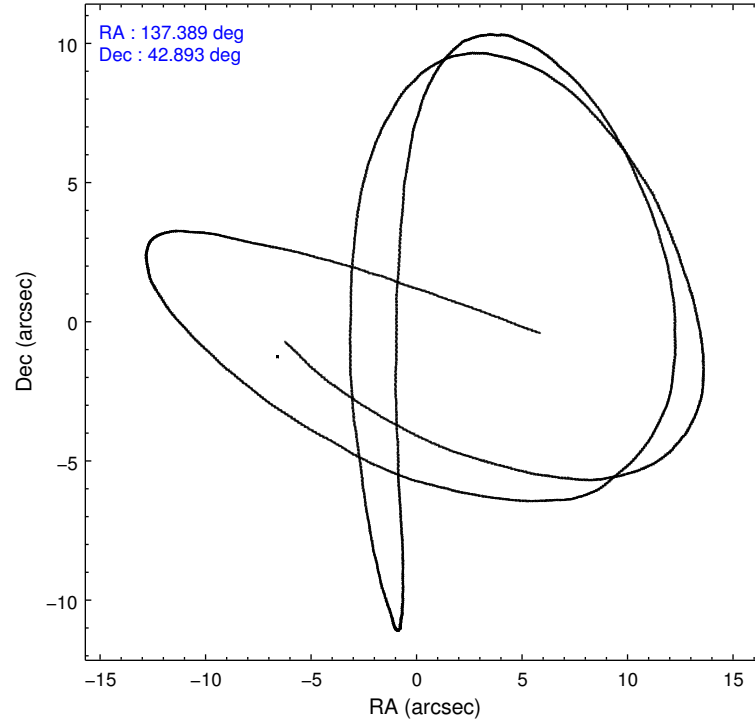
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	3029	3487	4464	4625
rejected events	2659	3028	2293	3315
rejected %	87%	86%	51%	71%

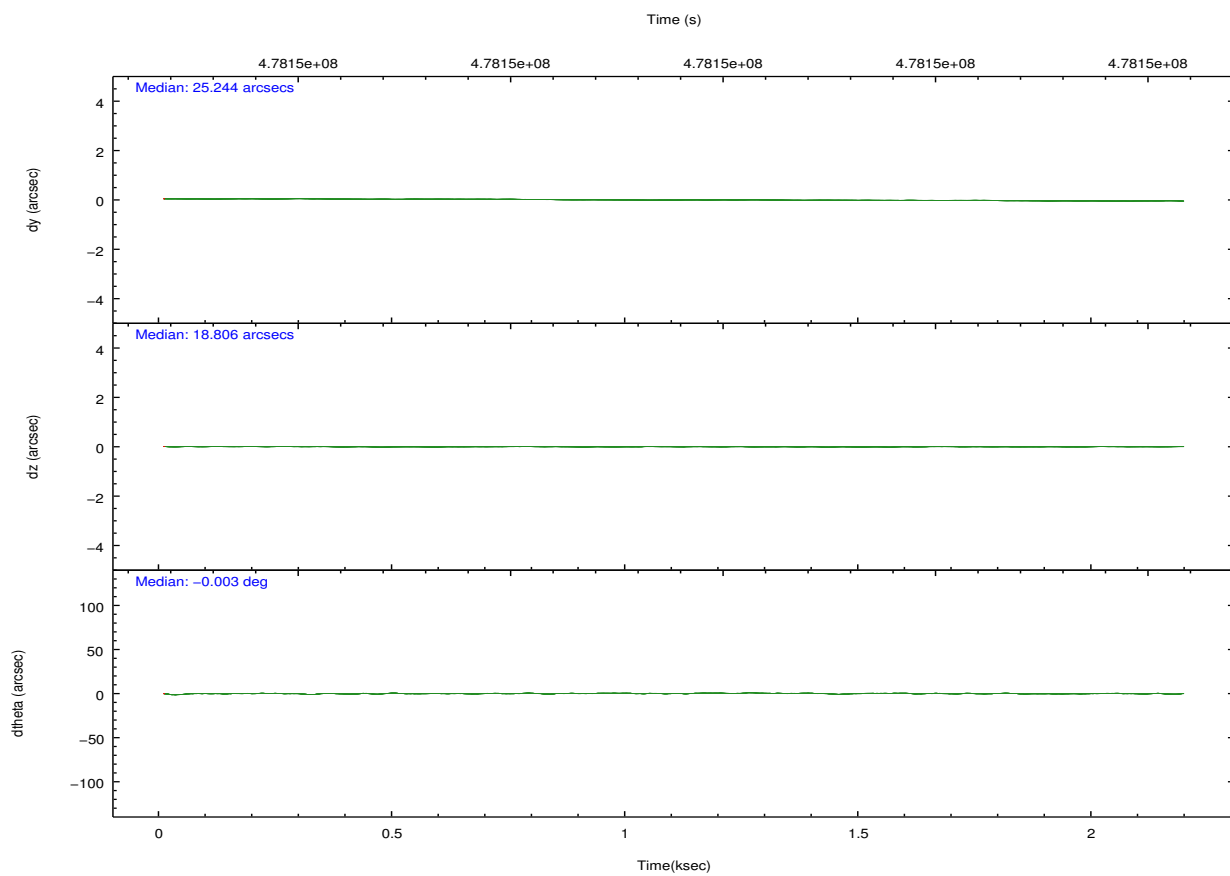
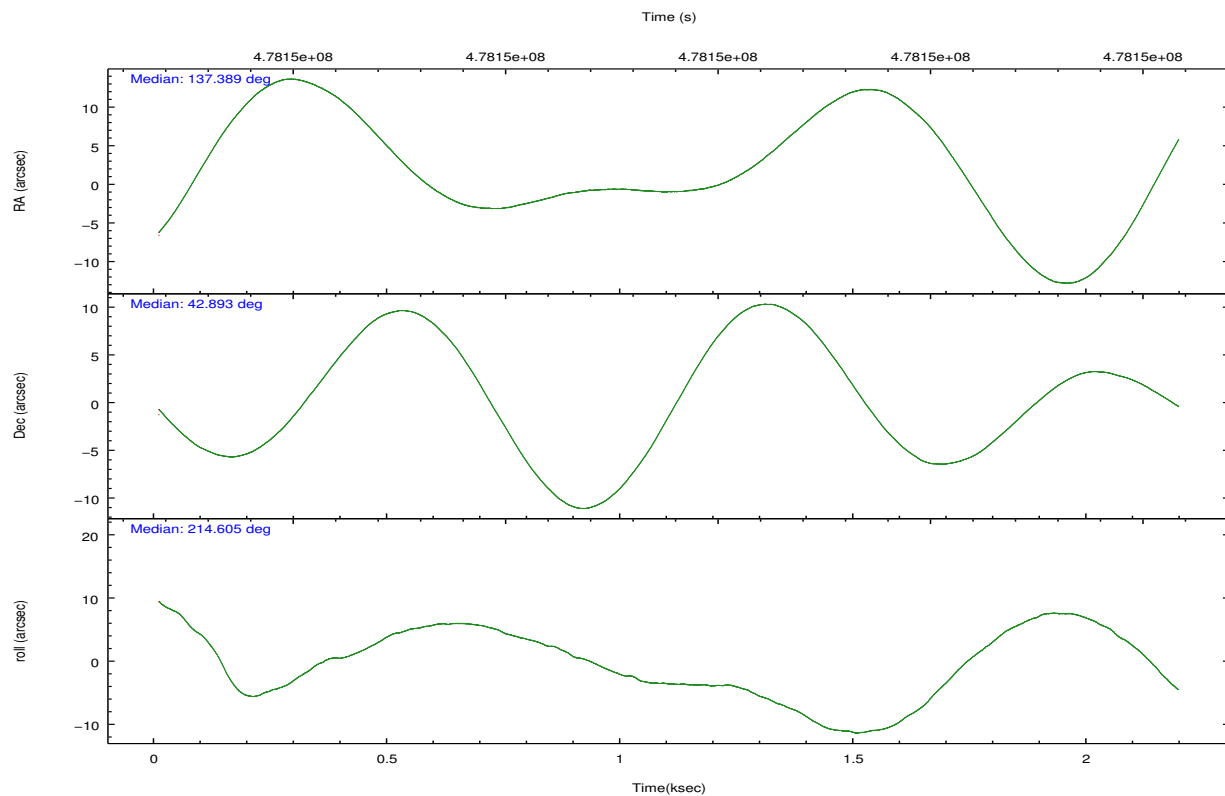
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	127	133	245	308
	4%	3%	5%	6%
grade 1 events	0	0	8	2
	0%	0%	0%	0%
grade 2 events	70	92	462	267
	2%	2%	10%	5%
grade 3 events	61	75	224	139
	2%	2%	5%	3%
grade 4 events	43	68	218	165
	1%	1%	4%	3%
grade 5 events	126	153	445	204
	4%	4%	9%	4%
grade 6 events	69	91	1023	431
	2%	2%	22%	9%
grade 7 events	2533	2875	1839	3109
	83%	82%	41%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	137.405286	137.3897107581452	CCD I2 on	N	N
[deg] Pointing Dec	42.918089	42.8931455796657	CCD I3 on	O1	Y
[deg] Pointing Roll	214.441690	214.6089291553519	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	O3	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	O2	Y
[s] Observation start time (MET)	478149480.184000	478148522.5733	CCD S5 on	N	N
Observation start date	2013-02-25T03:16:53	2013-02-25T03:02:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478151480.184000	478151840.49848	On-chip summing requested	N	N
Observation end date	2013-02-25T03:50:13	2013-02-25T03:57:20	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



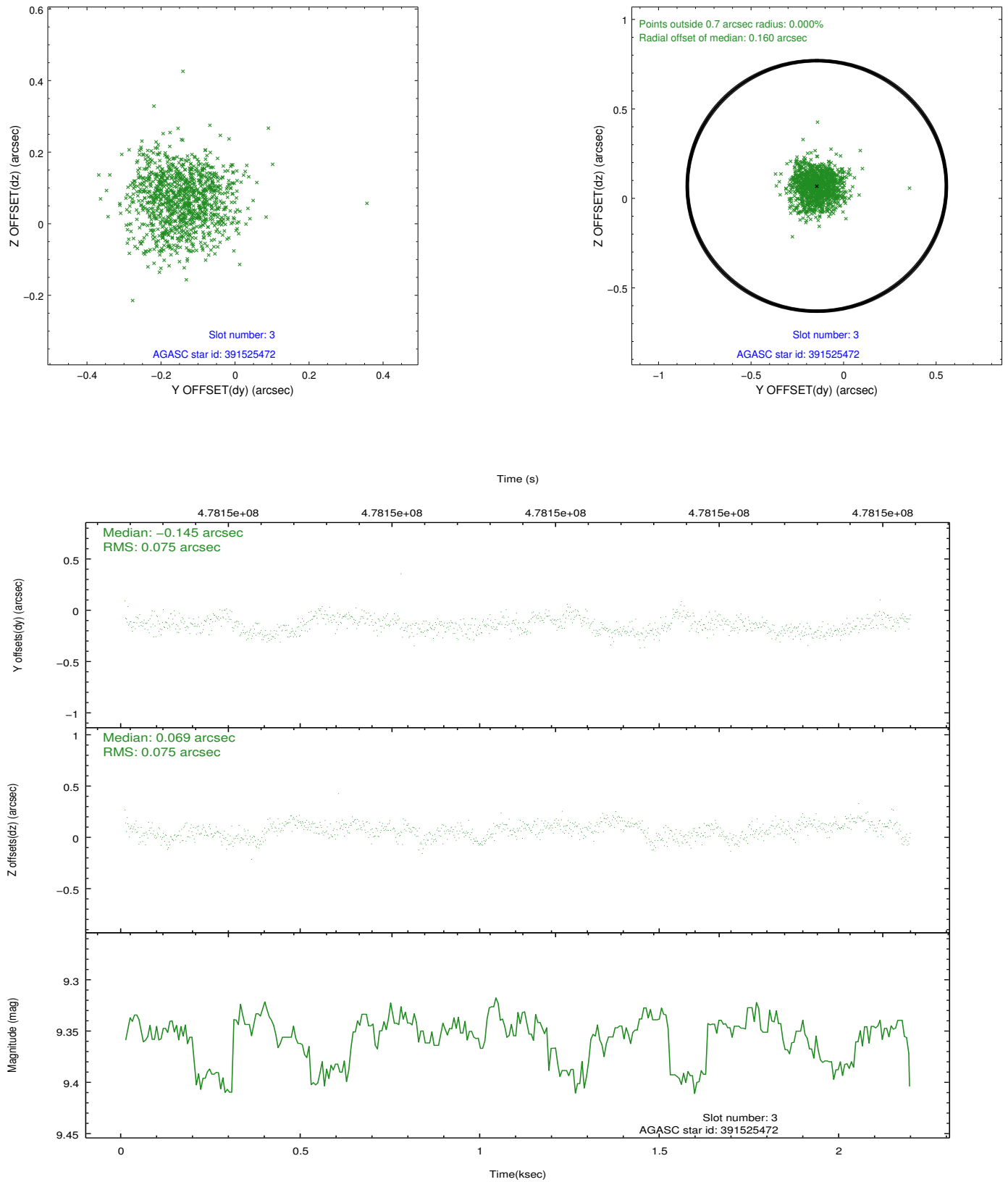


Slot Statistics

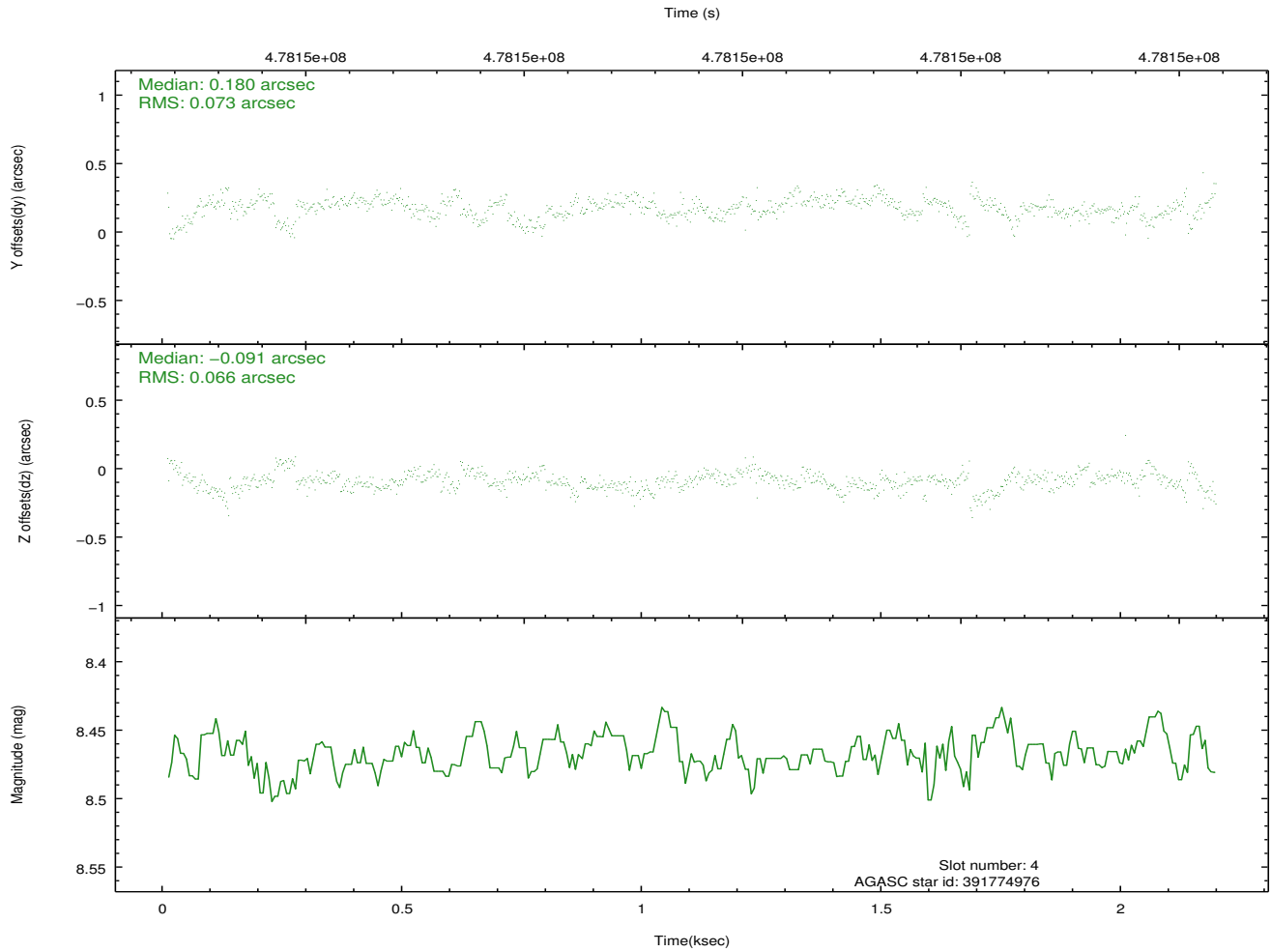
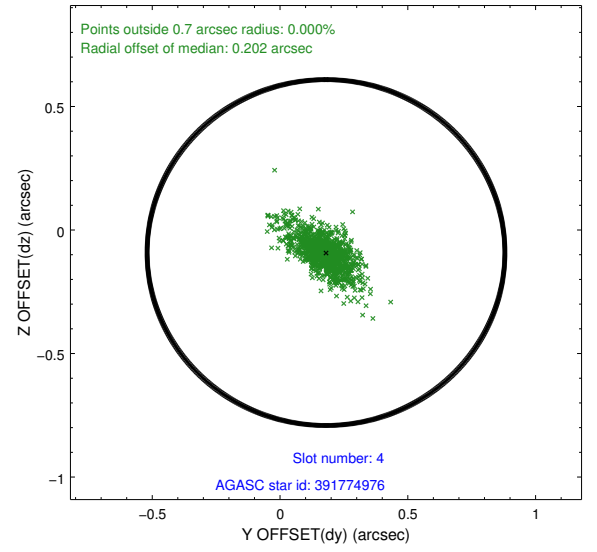
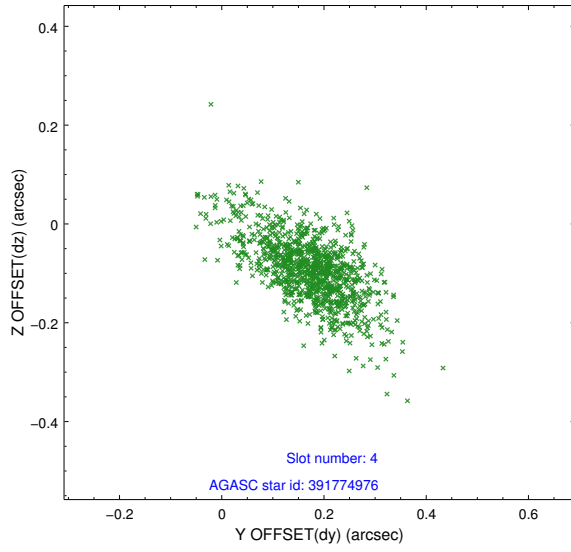
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	534	-0.182	-0.067	0.007	0.011	0.000000	0.000000	-778.70	-1740.34
1	FID		ACIS-S-4	7.09	534	0.370	0.106	0.006	0.010	0.000000	0.000000	2133.77	165.18
2	FID		ACIS-S-5	7.11	534	-0.219	-0.031	0.007	0.012	0.000000	0.000000	-1827.76	162.15
3	GUIDE	used	391525472	9.35	1066	-0.145	0.069	0.111	0.175	137.155231	42.047942	2322.30	2205.00
4	GUIDE	used	391774976	8.47	1066	0.180	-0.091	0.093	0.192	136.194181	43.054753	2338.80	-2224.13
5	GUIDE	used	391907880	9.09	1065	-0.048	-0.051	0.216	0.353	136.970627	42.628007	1540.71	205.61
6	GUIDE	used	391909432	9.07	1067	0.010	-0.153	0.155	0.222	137.529253	42.940387	-313.14	118.35
7	GUIDE	used	391905936	9.12	1066	0.023	0.251	0.119	0.190	138.045295	43.404901	-2375.31	-503.70

2.4 Star Slots

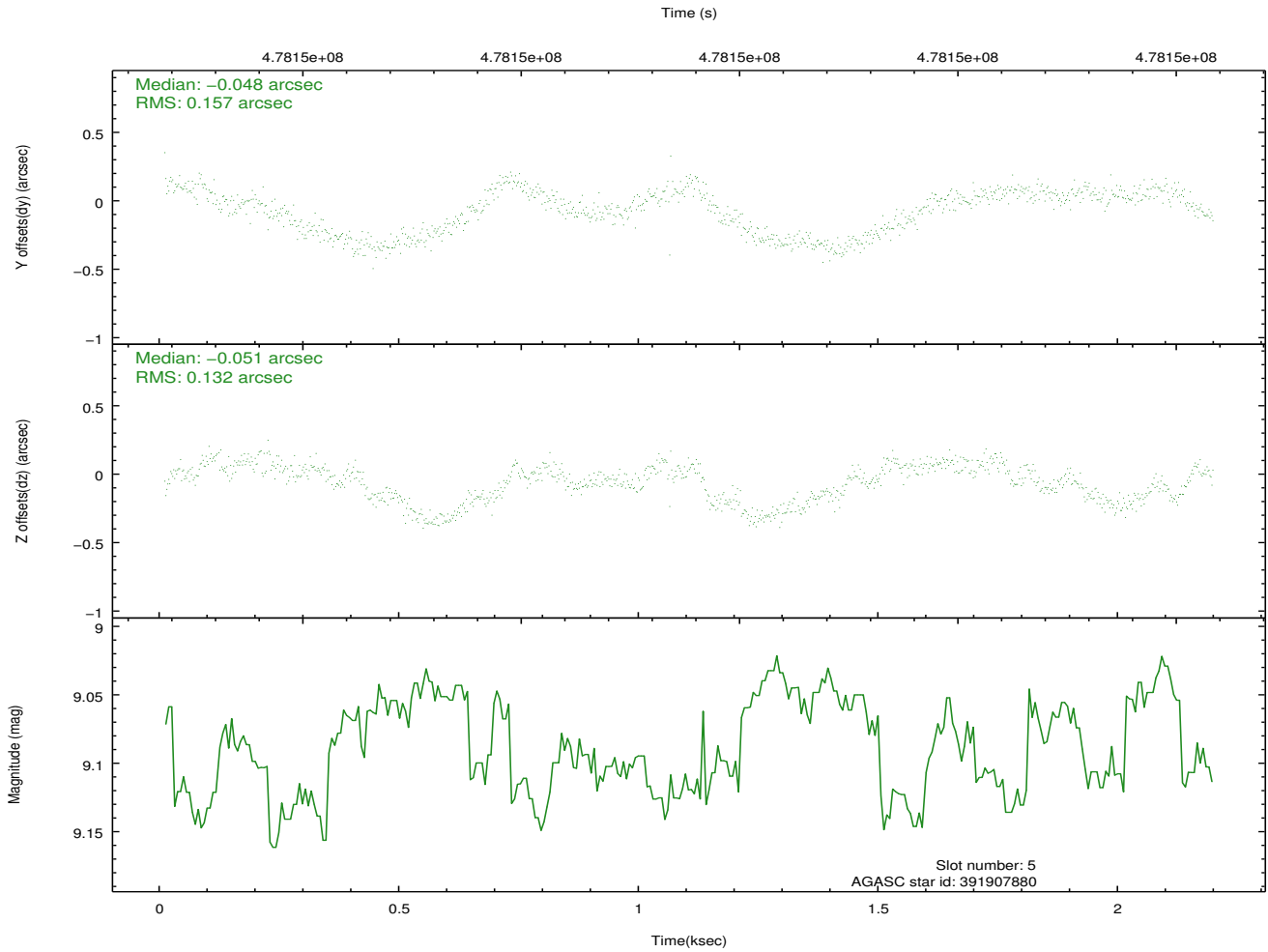
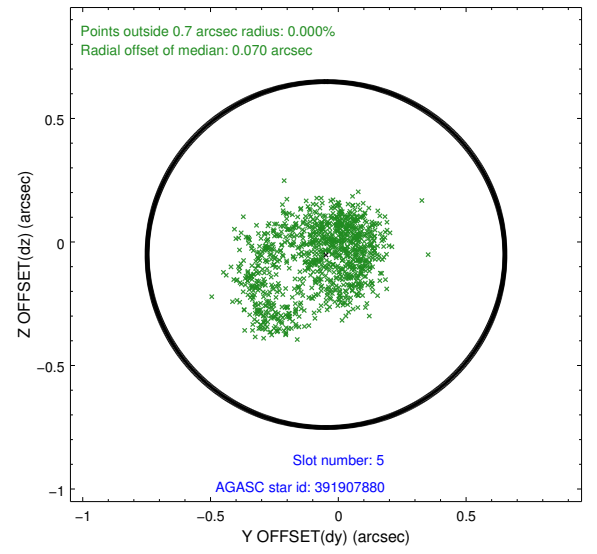
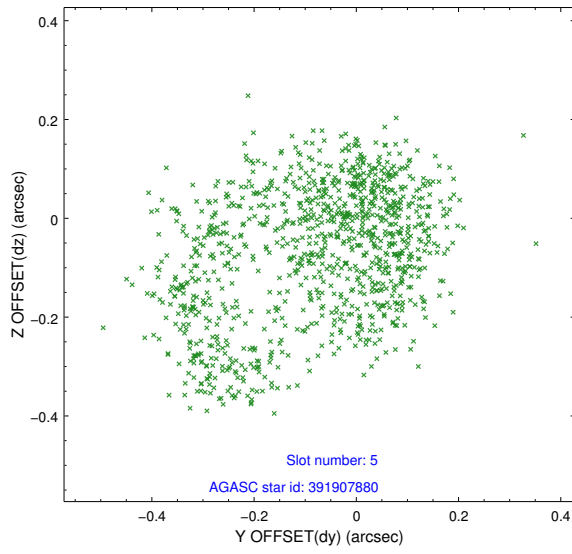
2.4.1 Slot 3



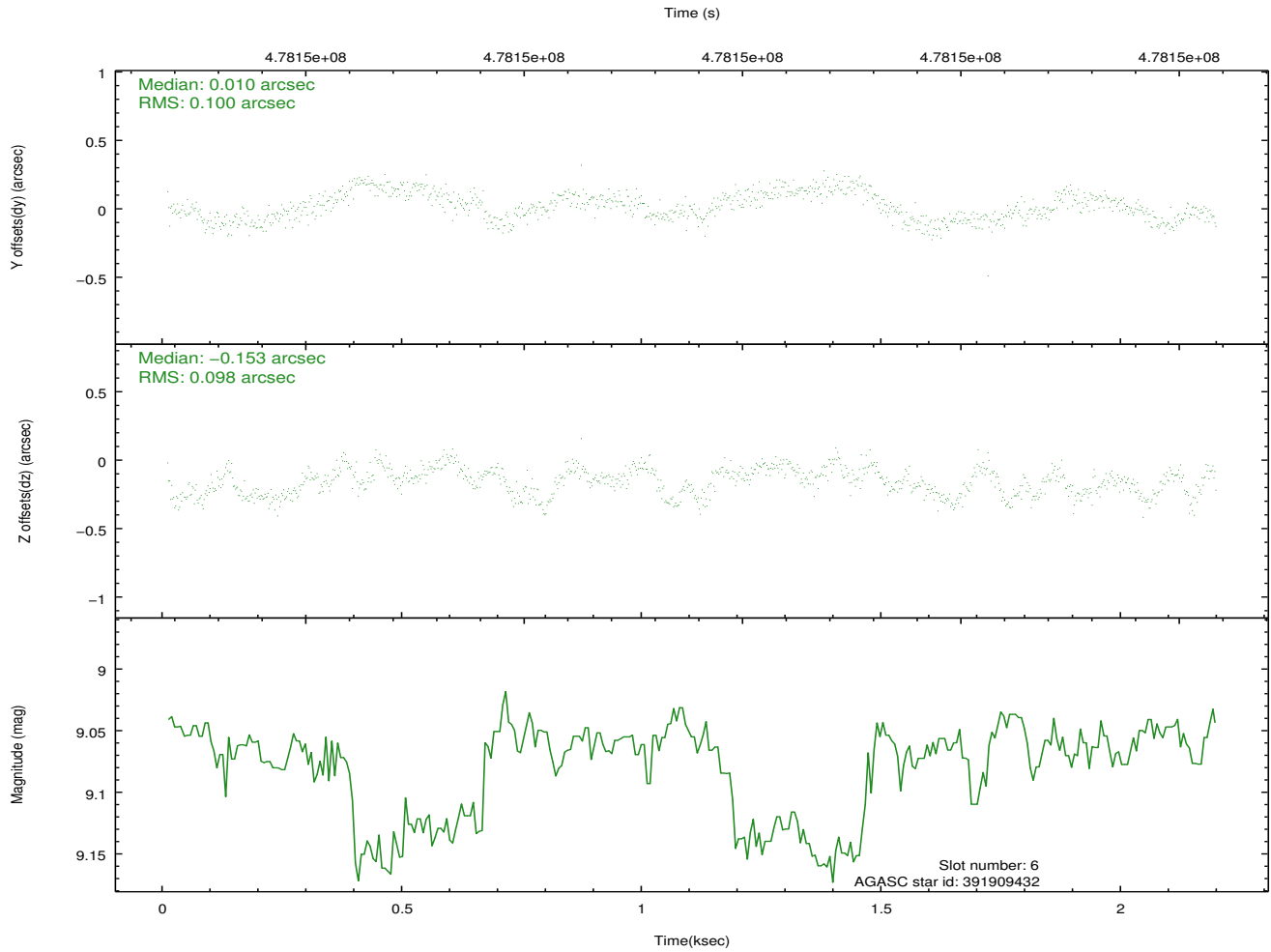
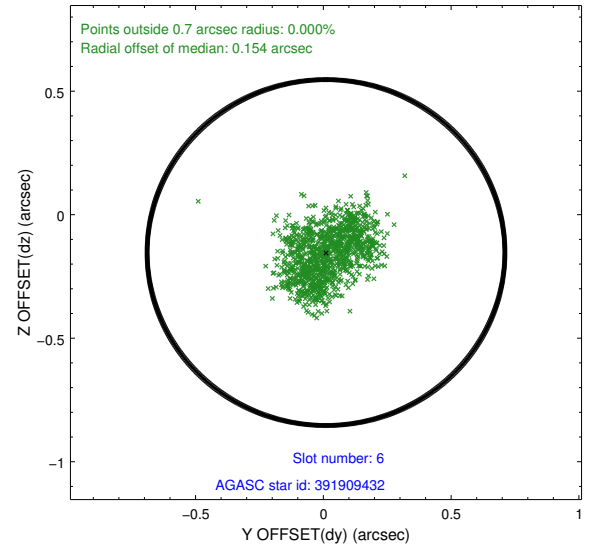
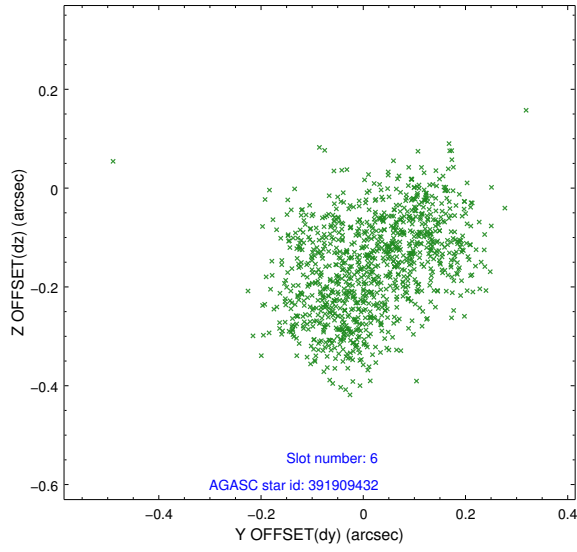
2.4.2 Slot 4



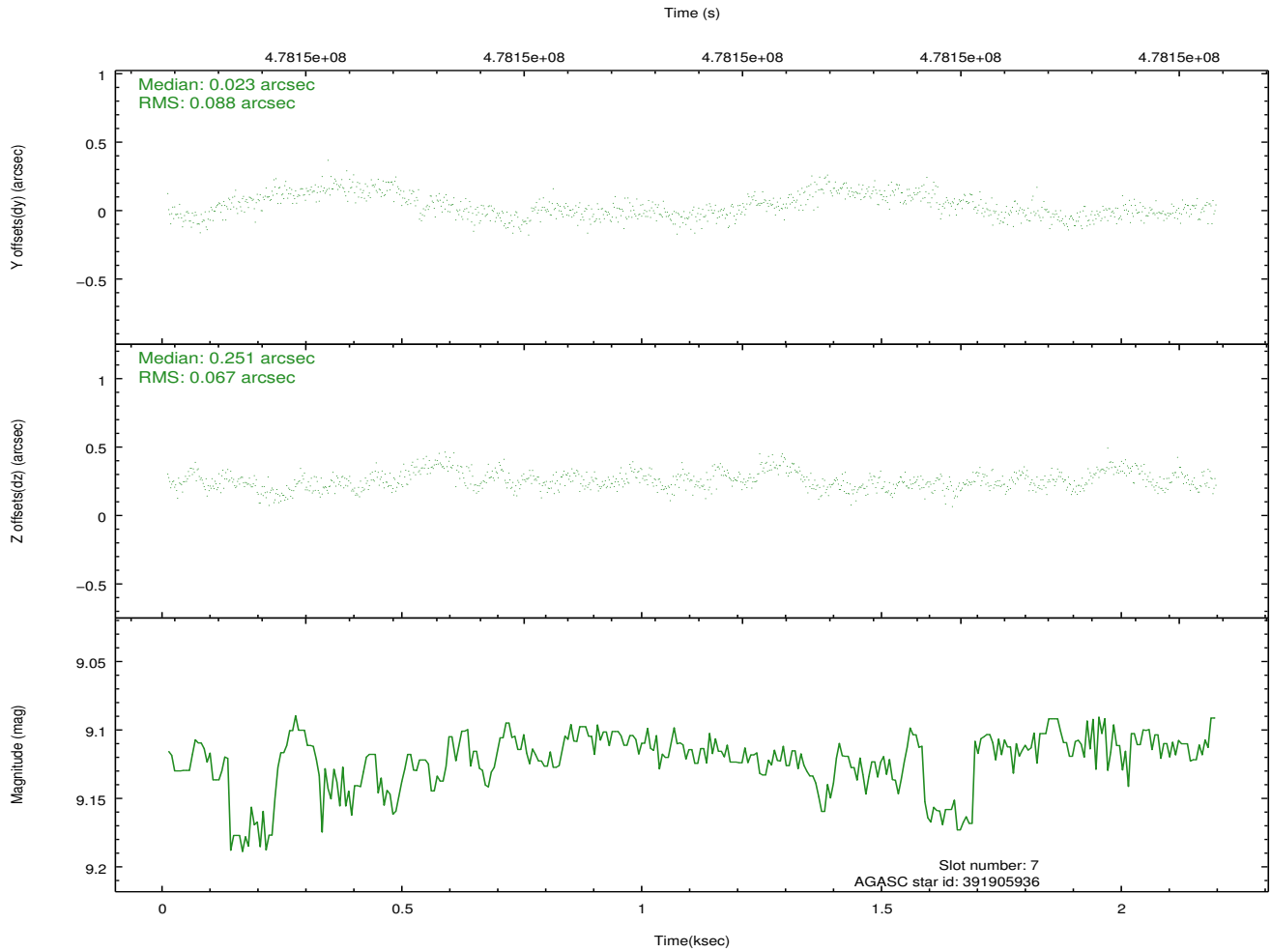
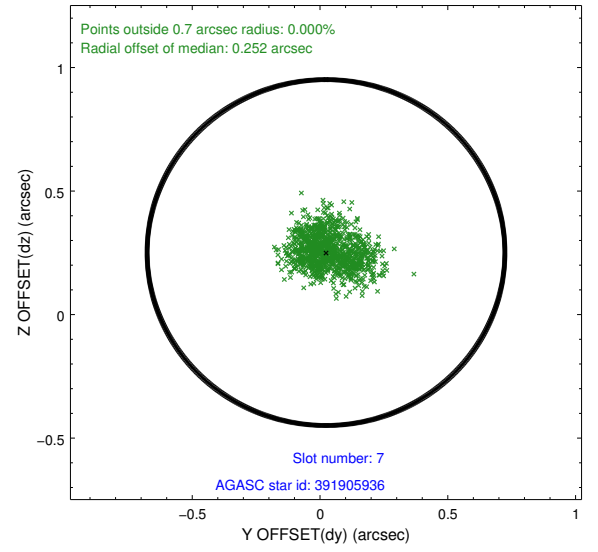
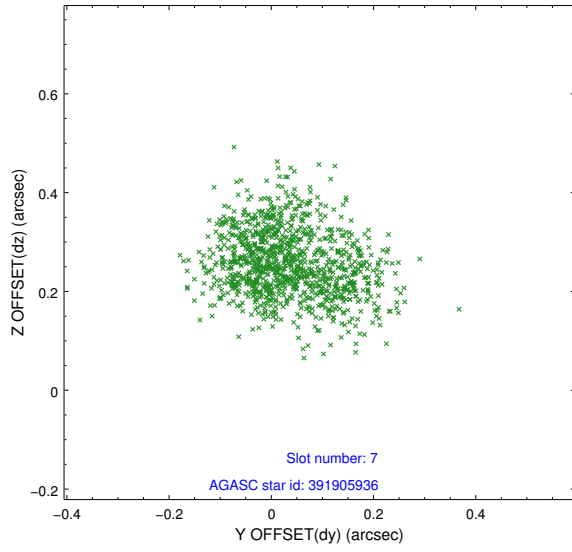
2.4.3 Slot 5



2.4.4 Slot 6

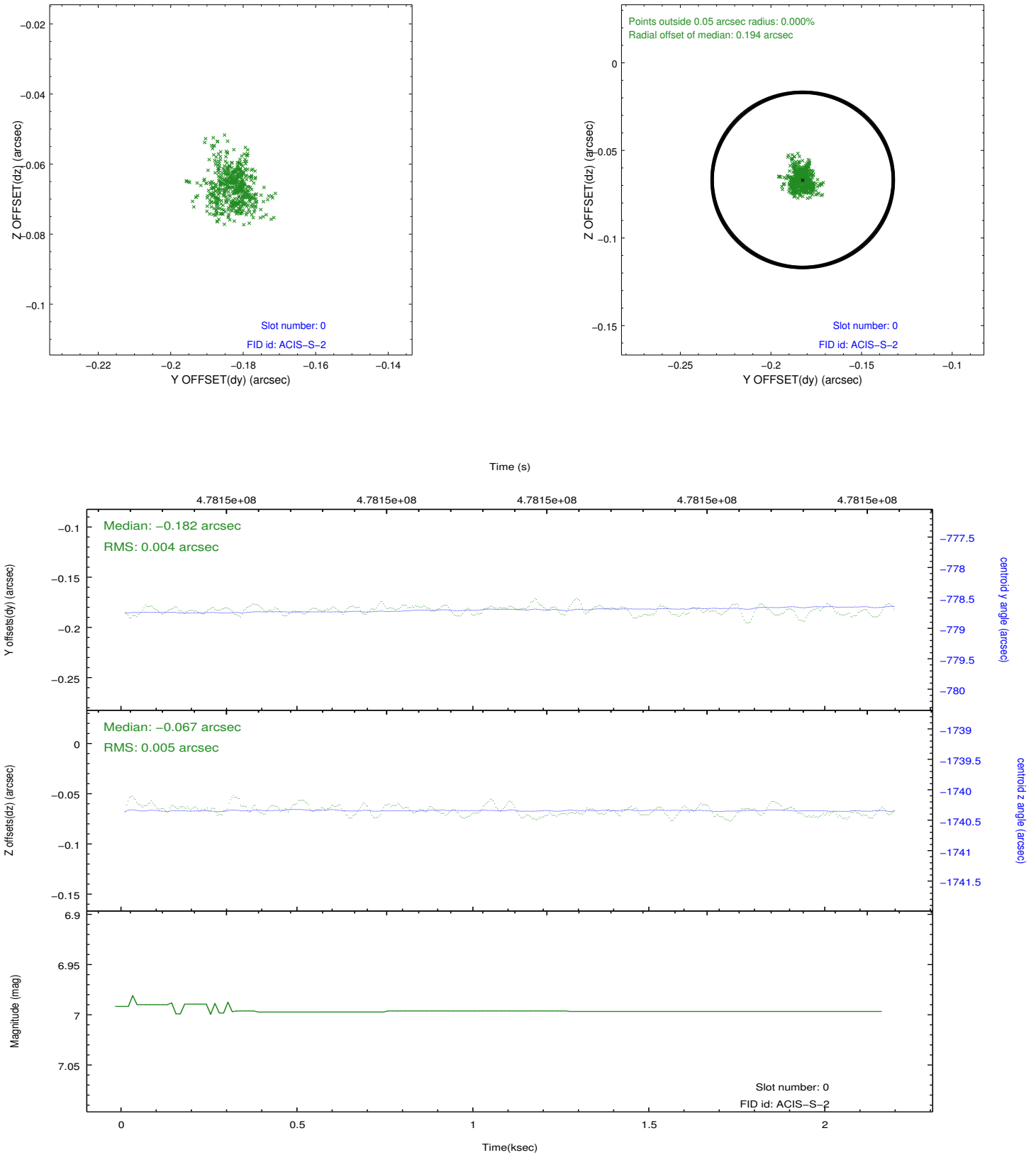


2.4.5 Slot 7

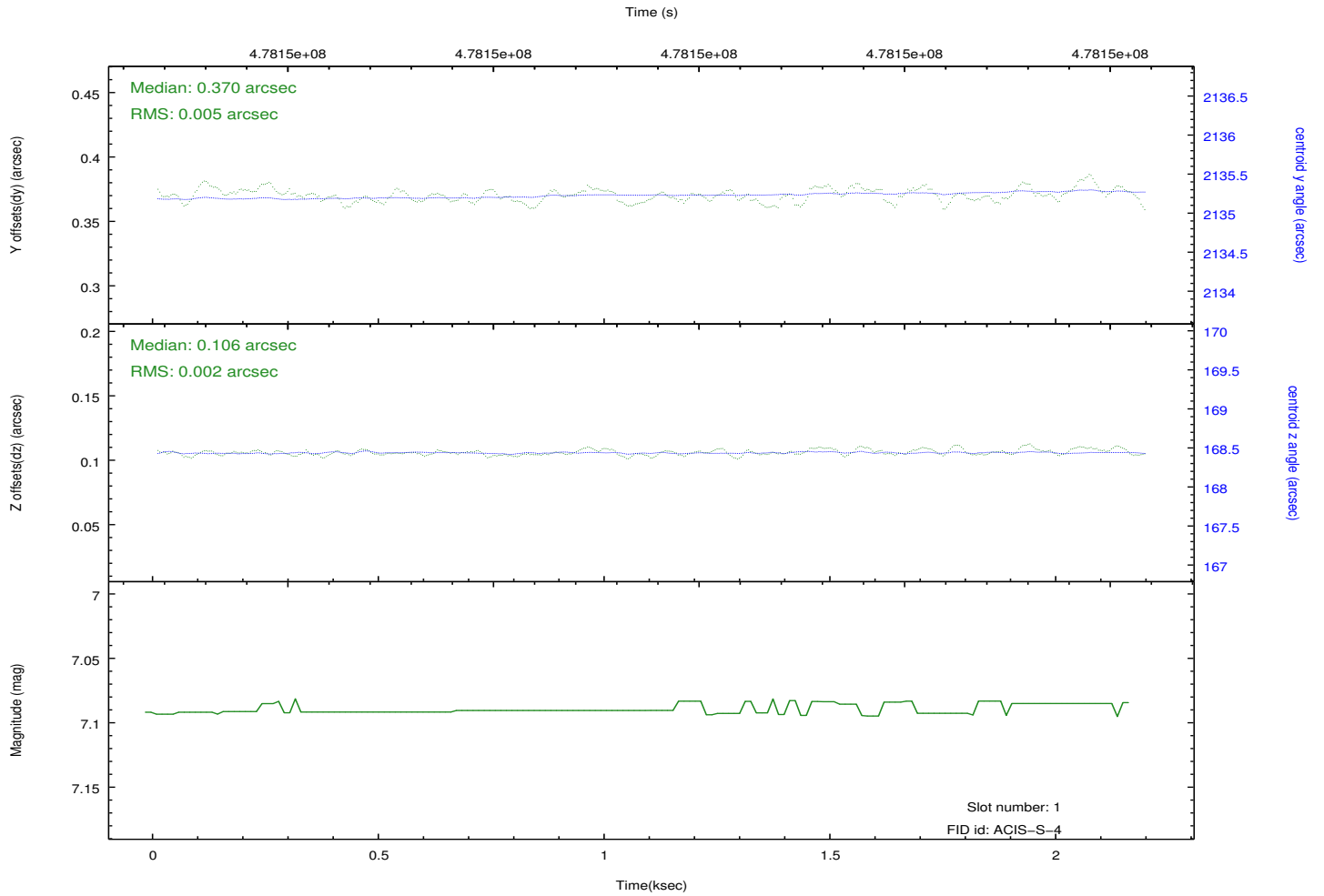
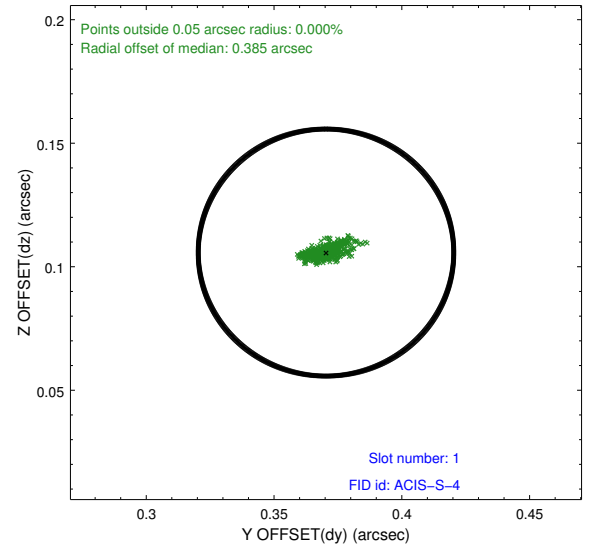
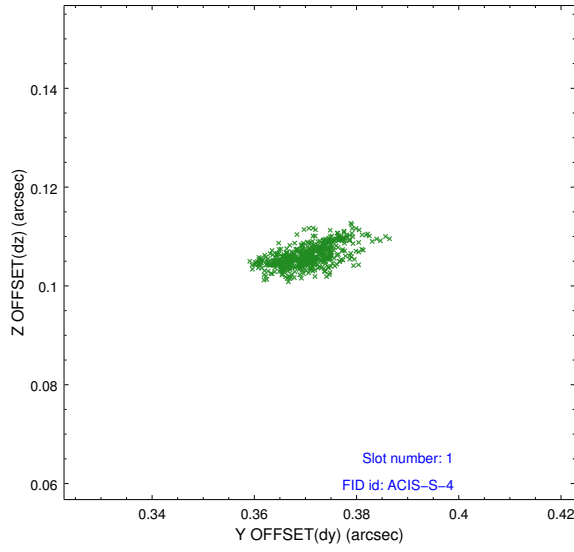


2.5 FID Slots

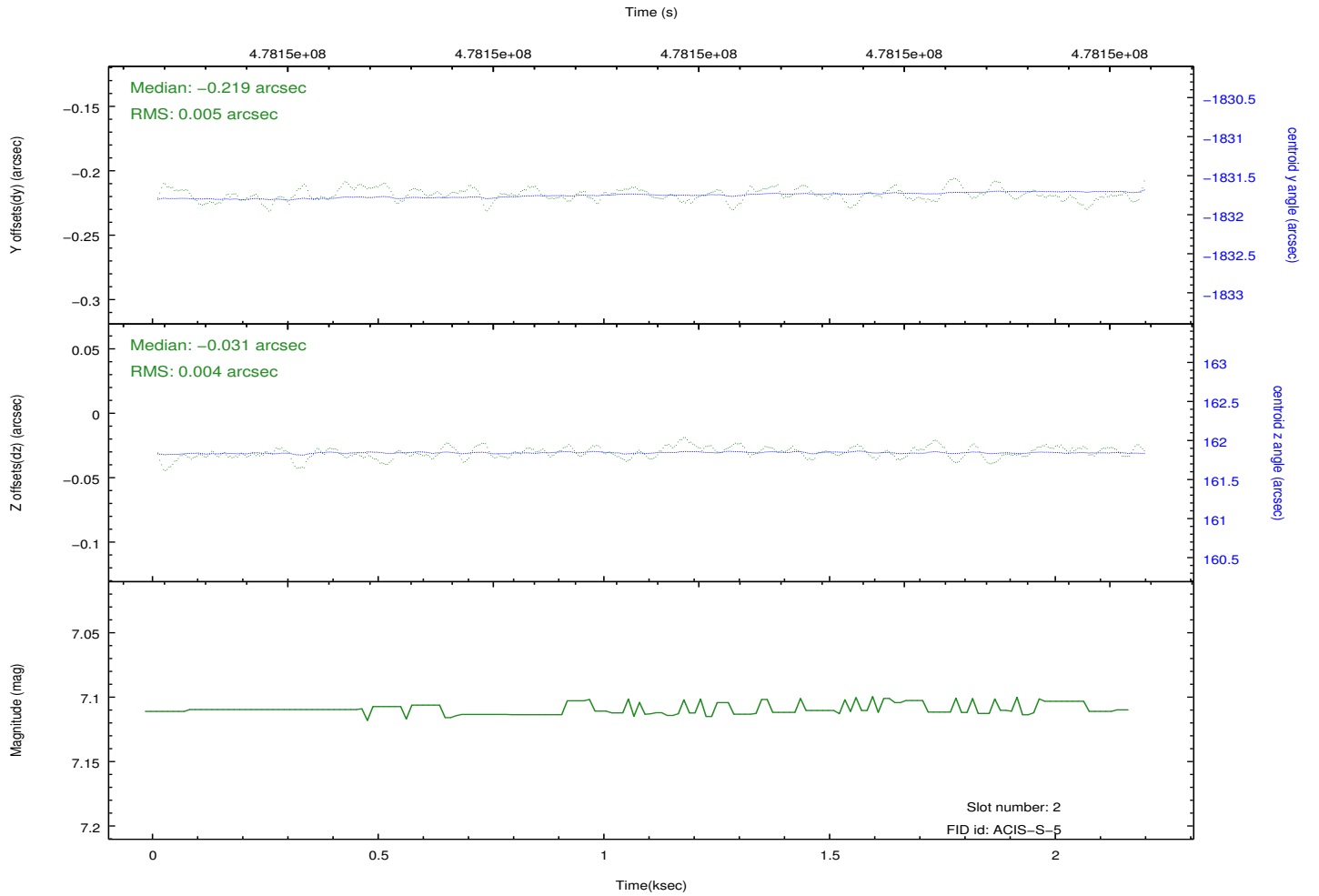
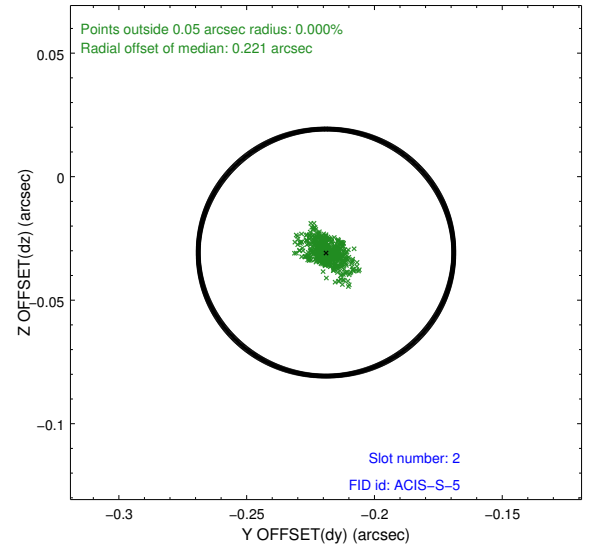
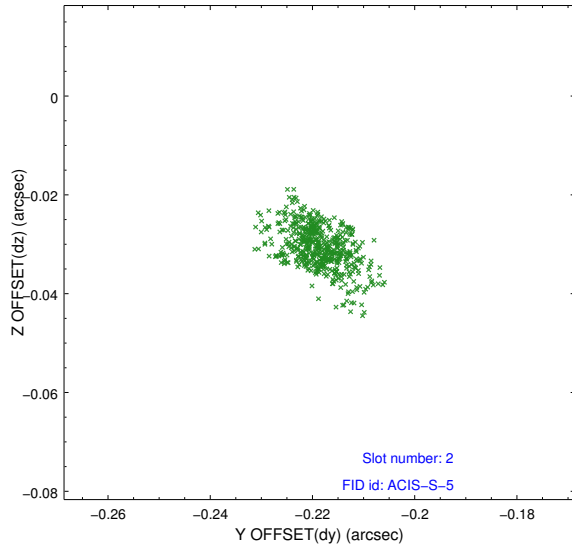
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0848990294337

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.