

V&V Reference Report

L2 ASCDS Version : 10

Observation 14888 - L2 Version 2
Chandra X-Ray Center

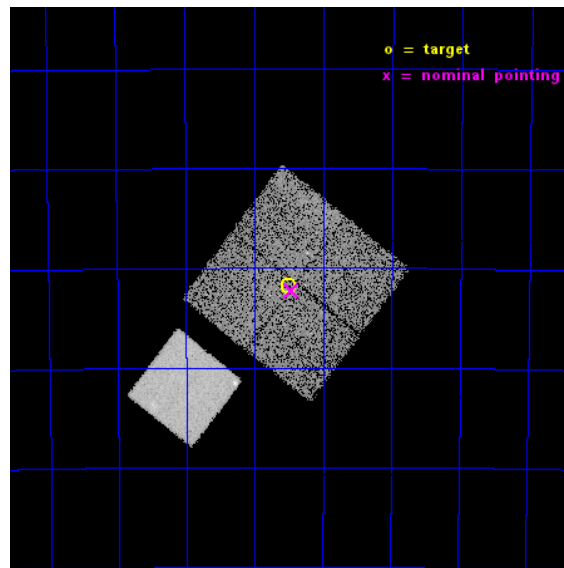
L2 Processing Date : Dec 6 2014

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1 Front

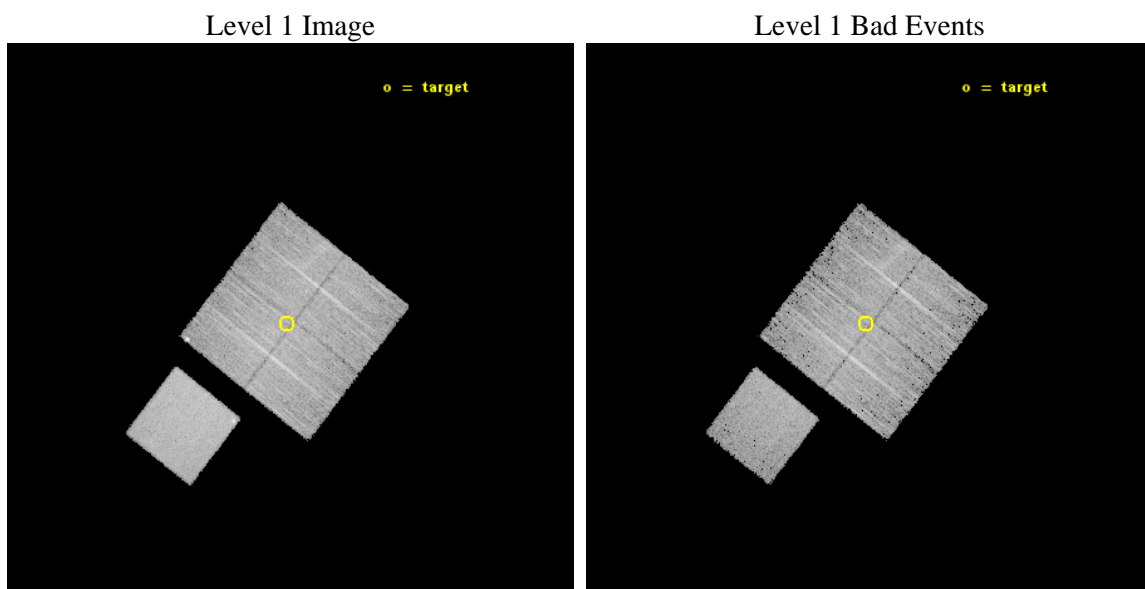
seq_num	502012	Sequence number
obs_id	14888	Observation id
title	Chandra observations of 4 Fermi-LAT-detected Supernova Remnants with pulsar-like gamma-ray emission	Proposal title
observer	Dr Pablo Saz Parkinson	Principal investigator
object	G311.5-0.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.375	Observer's specified target RA [deg]
dec_targ	-61.364389	Observer's specified target Dec [deg]
ra_nom	211.36538507423	Nominal RA [deg]
dec_nom	-61.371024520783	Nominal Dec [deg]
roll_nom	217.93718526207	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13066.459130168	Sum of GTIs [s]
livetime	12895.736222245	Livetime [s]
ontime0	13069.600100517	Sum of GTIs [s]
ontime1	13060.177020252	Sum of GTIs [s]
ontime2	13069.600100517	Sum of GTIs [s]
ontime3	13066.459130168	Sum of GTIs [s]
ontime7	13069.600100517	Sum of GTIs [s]
l2events	63489	Number of level 2 events



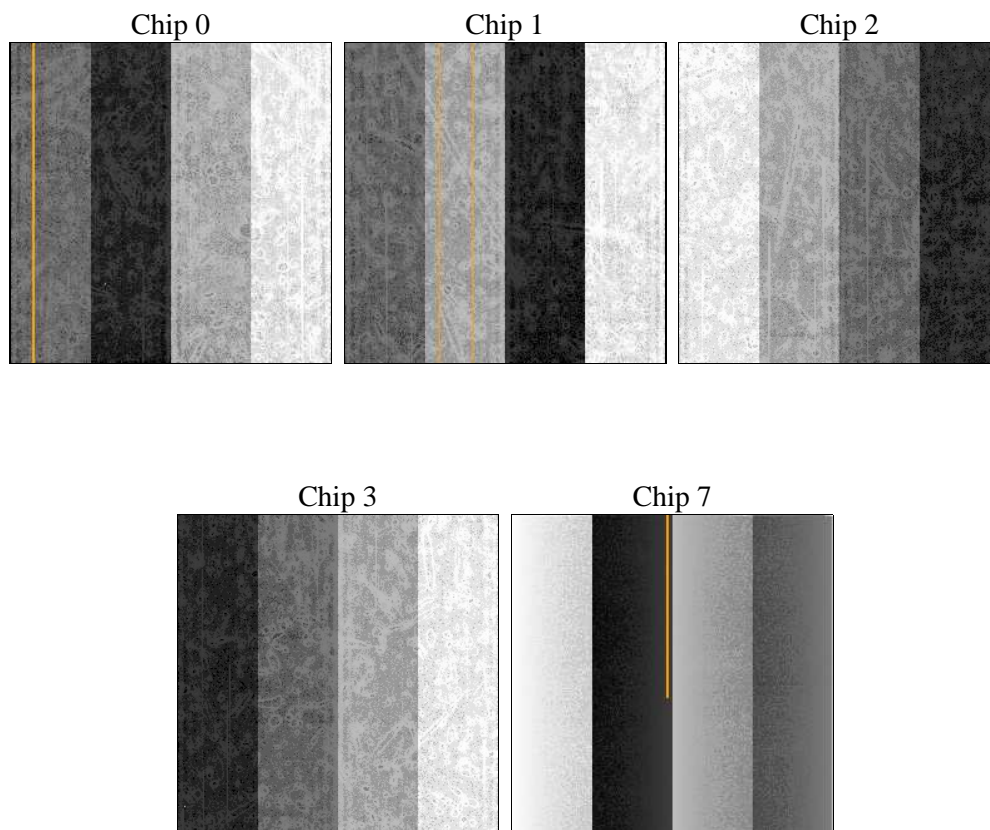
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	13066.459130168	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	13069.600100517	Sum of GTIs [s]
date	2014-12-06T14:47:17	Date and time of file creation	ontime1	13060.177020252	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	13069.600100517	Sum of GTIs [s]
			ontime3	13066.459130168	Sum of GTIs [s]
			ontime7	13069.600100517	Sum of GTIs [s]
			l1events	321285	Number of level 1 events

2.1.4 Events

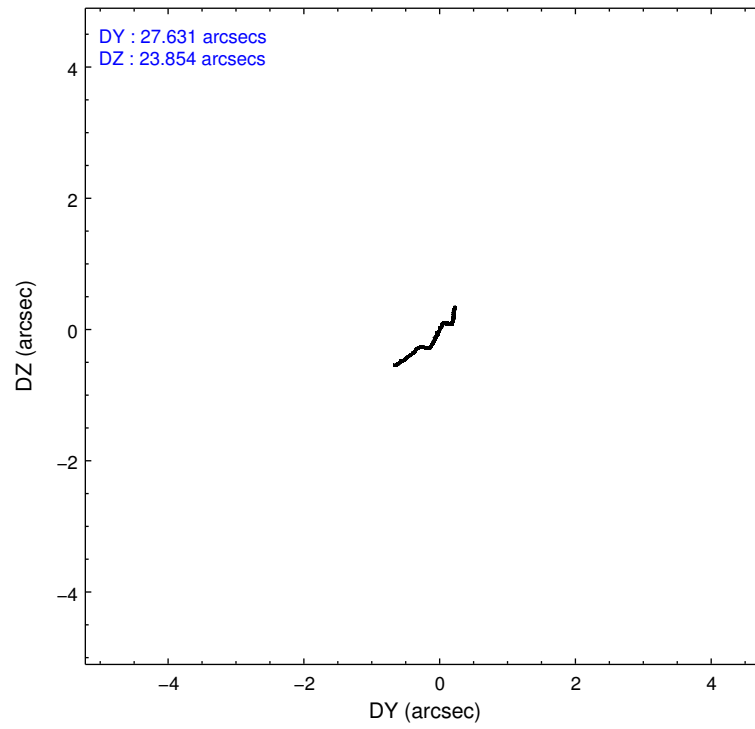
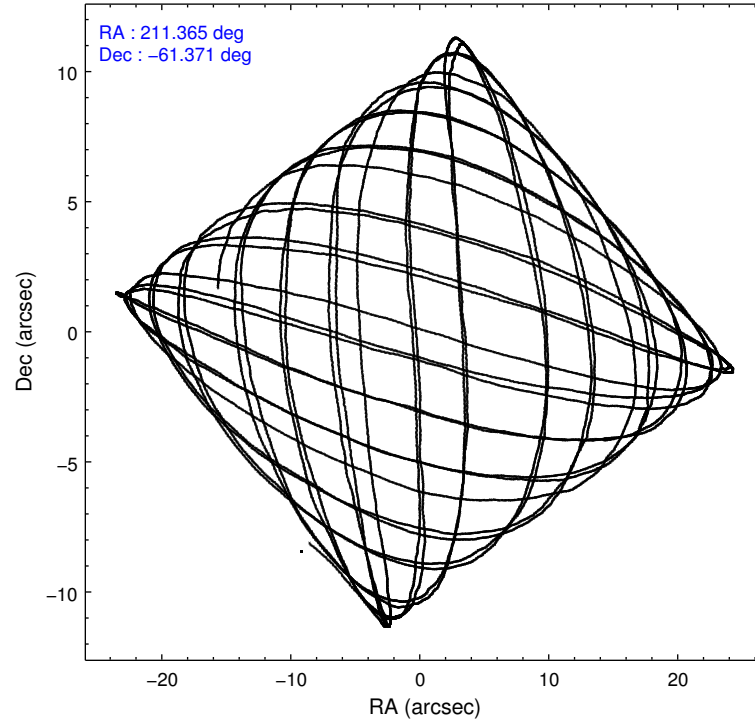
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	56754	56945	61269	60344	85973
rejected events	49166	48409	53955	52281	47425
rejected %	86%	85%	88%	86%	55%

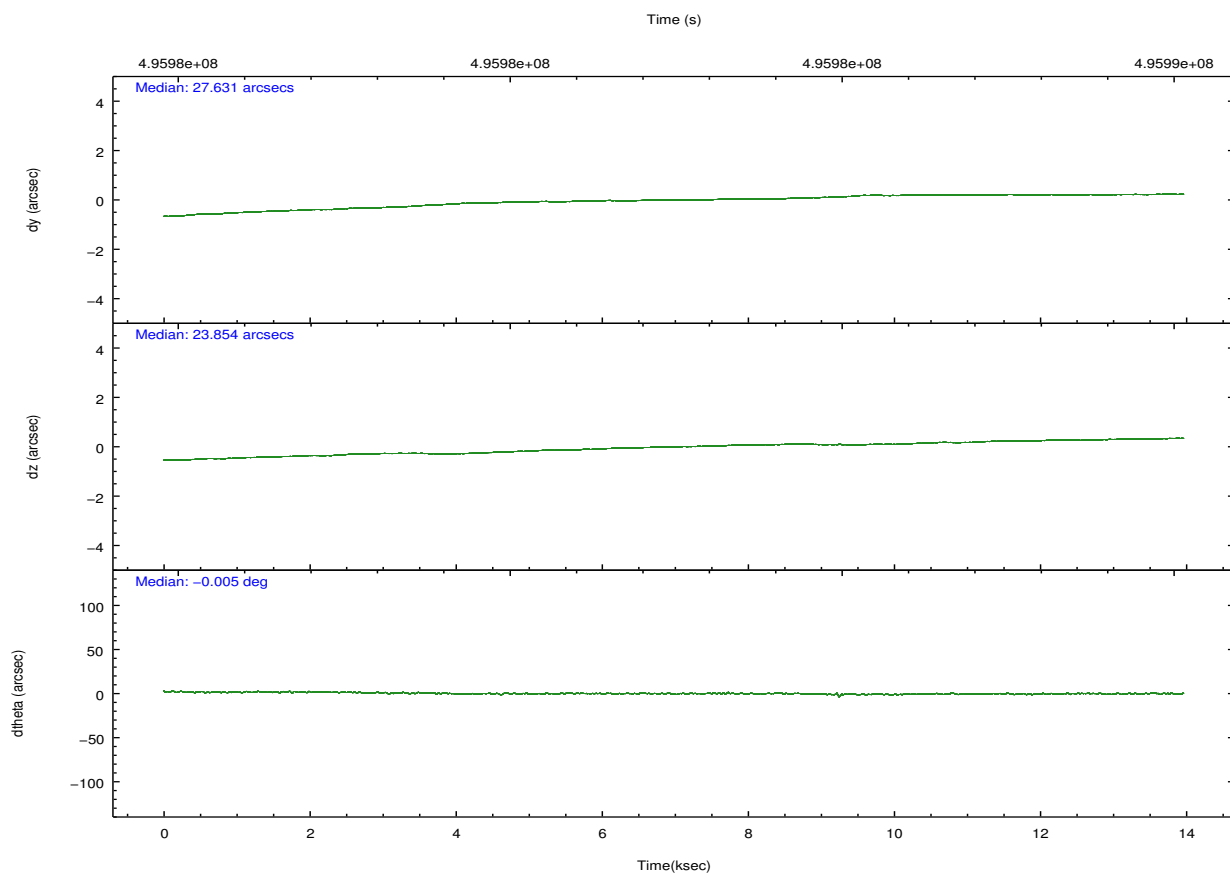
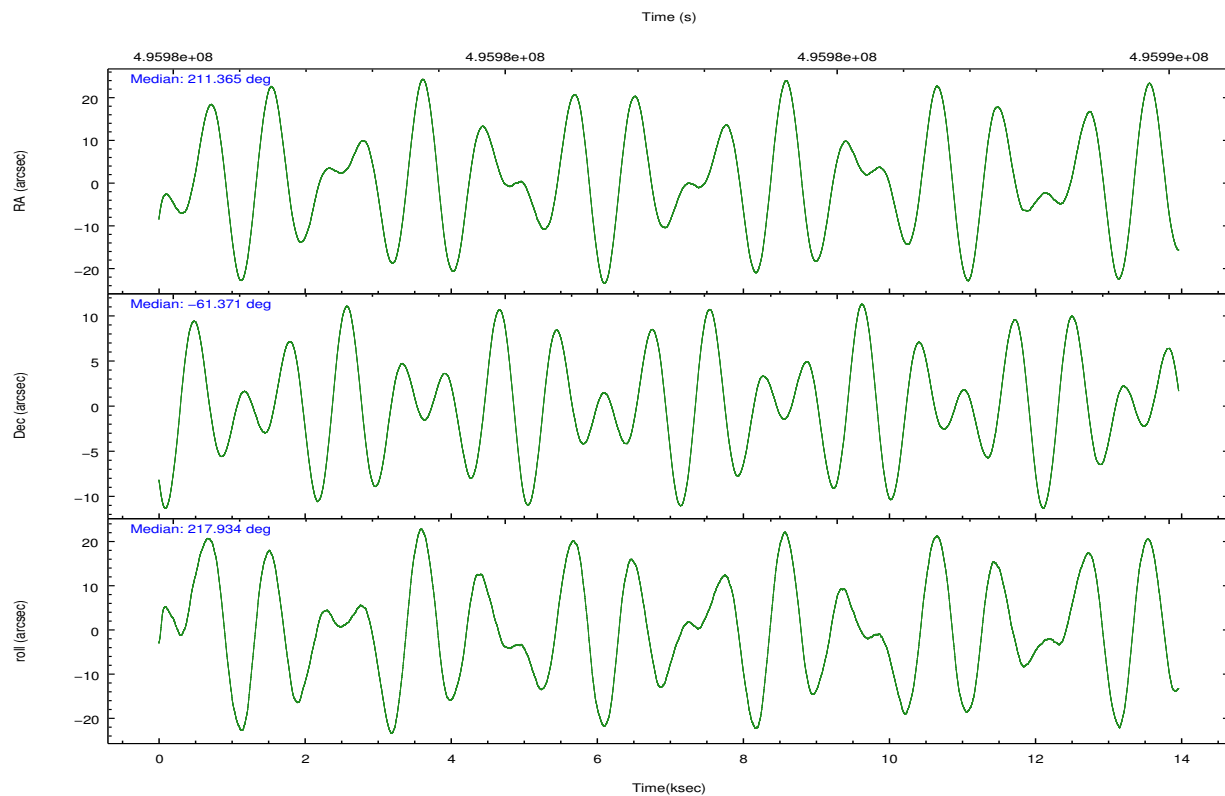
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2763	3136	2706	3508	3858
	4%	5%	4%	5%	4%
grade 1 events	53	33	37	45	110
	0%	0%	0%	0%	0%
grade 2 events	1853	2015	1708	1570	8093
	3%	3%	2%	2%	9%
grade 3 events	732	841	713	736	3326
	1%	1%	1%	1%	3%
grade 4 events	725	820	704	768	3286
	1%	1%	1%	1%	3%
grade 5 events	2911	3073	2795	3195	8784
	5%	5%	4%	5%	10%
grade 6 events	1522	1726	1487	1485	20008
	2%	3%	2%	2%	23%
grade 7 events	46195	45301	51119	49037	38508
	81%	79%	83%	81%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	211.386699	211.3653850742288	CCD I2 on	Y	Y
[deg] Pointing Dec	-61.345492	-61.3710245207828	CCD I3 on	Y	Y
[deg] Pointing Roll	217.747212	217.9371852620652	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	495976449.184000	495974974.01641	CCD S5 on	N	N
Observation start date	2013-09-19T11:13:02	2013-09-19T10:49:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	495989449.184000	495989901.09223	On-chip summing requested	N	N
Observation end date	2013-09-19T14:49:42	2013-09-19T14:58:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



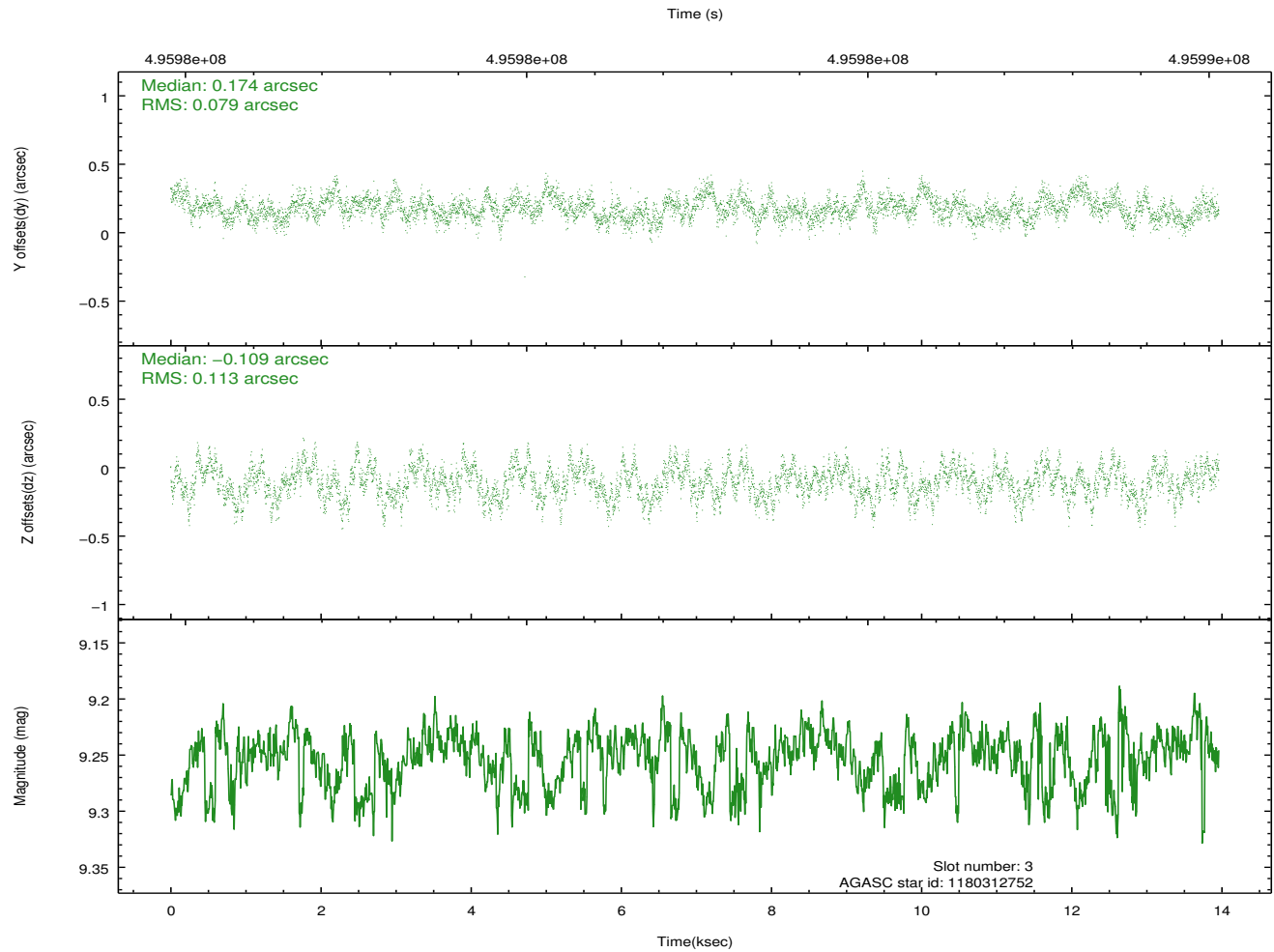
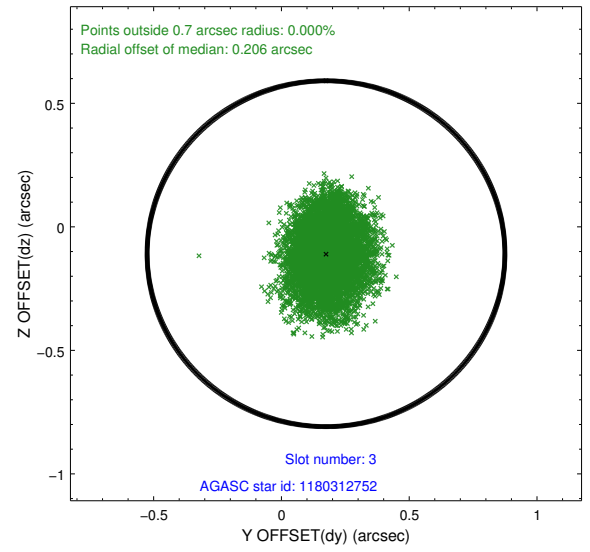
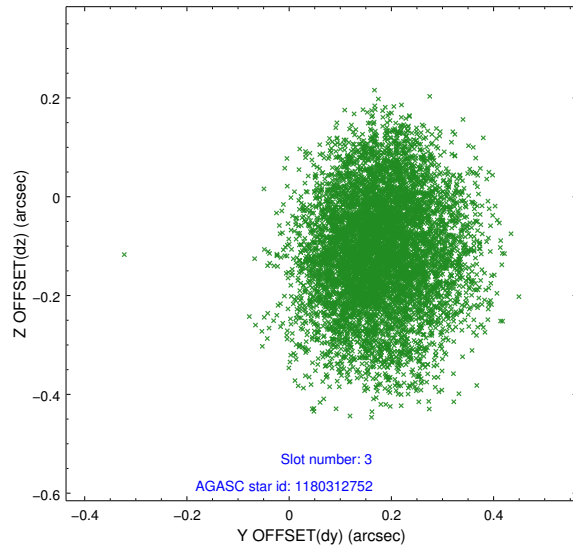


Slot Statistics

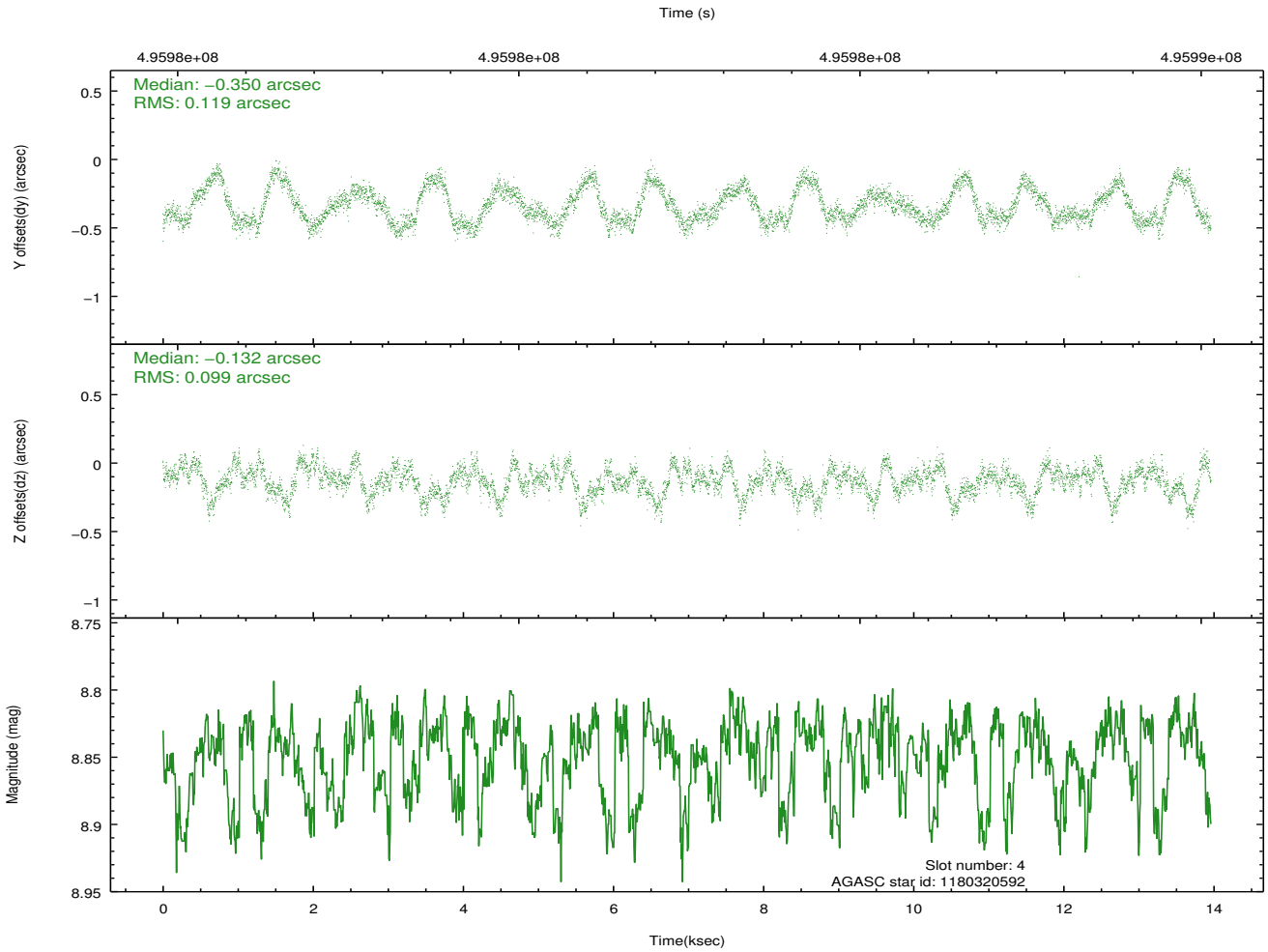
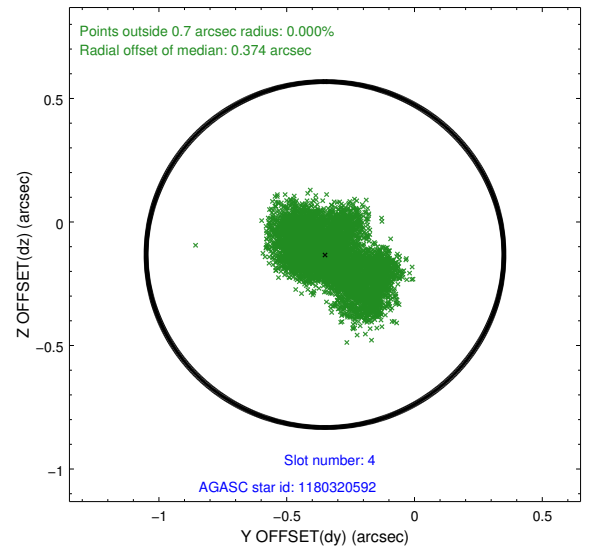
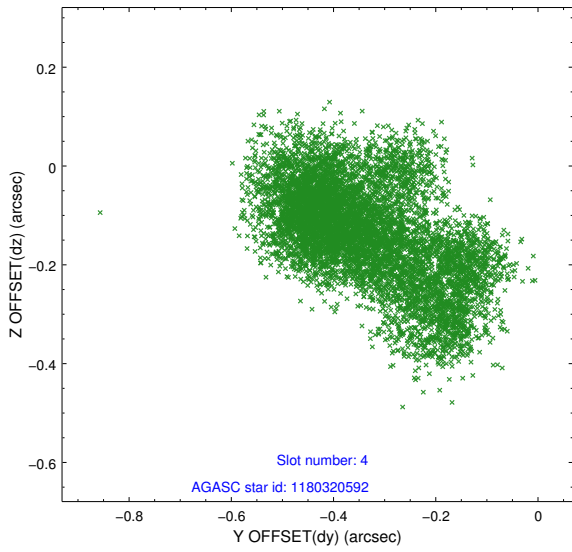
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	3406	0.010	0.071	0.009	0.018	0.000000	0.000000	911.59	-847.52
1	FID		ACIS-I-5	7.05	3406	-0.241	0.021	0.008	0.014	0.000000	0.000000	-1836.68	1049.63
2	FID		ACIS-I-6	7.07	3406	0.140	-0.022	0.009	0.016	0.000000	0.000000	376.77	1694.57
3	GUIDE	used	1180312752	9.25	6807	0.174	-0.109	0.148	0.238	211.133321	-61.111012	-167.31	-936.49
4	GUIDE	used	1180320592	8.85	6771	-0.350	-0.132	0.167	0.268	211.984318	-61.689247	-46.52	1606.75
5	GUIDE	used	1180327800	8.25	6810	0.020	0.156	0.102	0.158	212.001530	-60.775476	-2107.32	-956.60
6	GUIDE	used	1180334696	6.80	6812	-0.171	-0.090	0.070	0.113	210.072461	-61.481024	2099.49	-979.11
7	GUIDE	used	1180329144	9.59	6772	0.319	0.180	0.180	0.271	211.992404	-60.741070	-2170.86	-1064.12

2.4 Star Slots

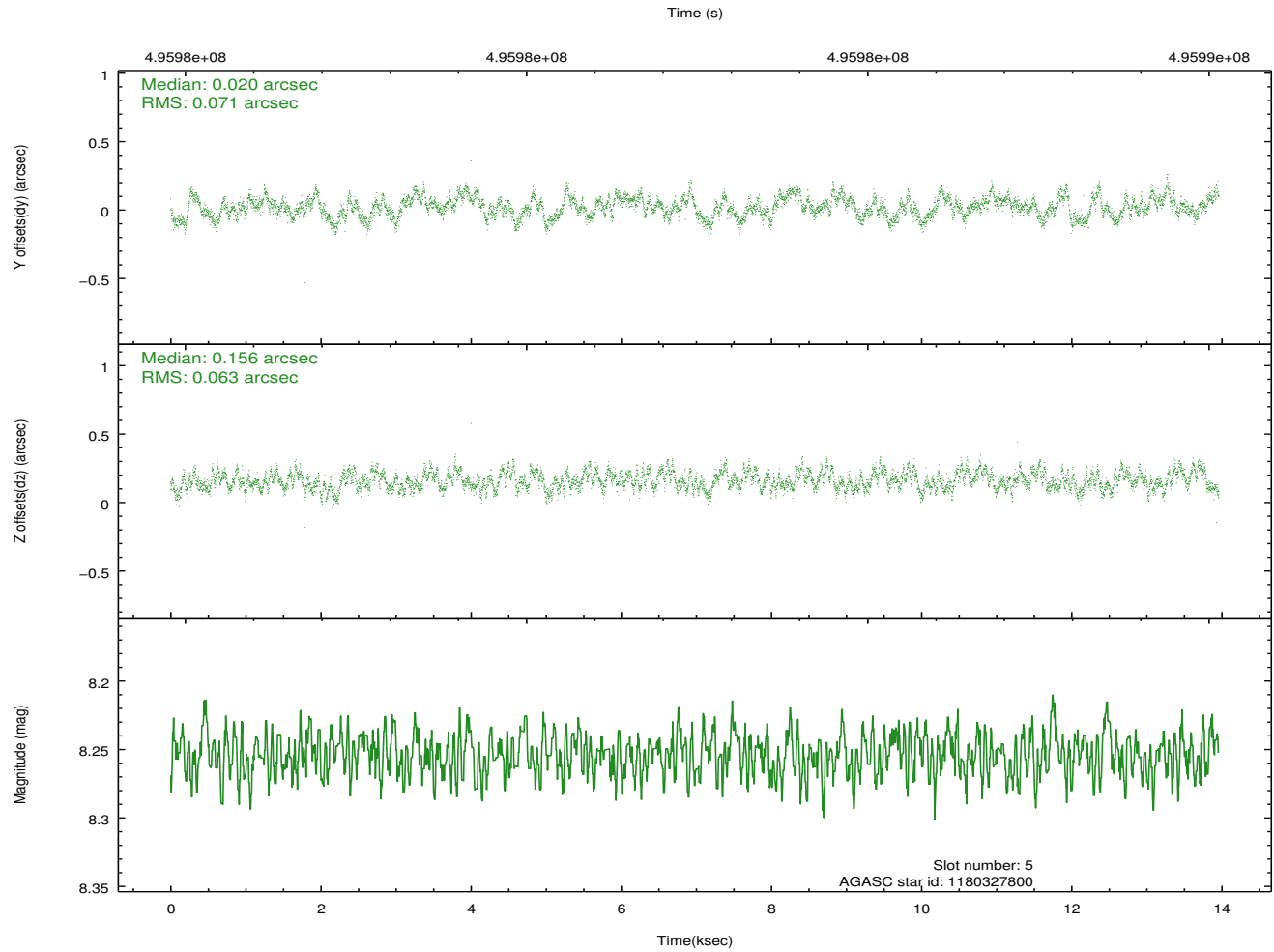
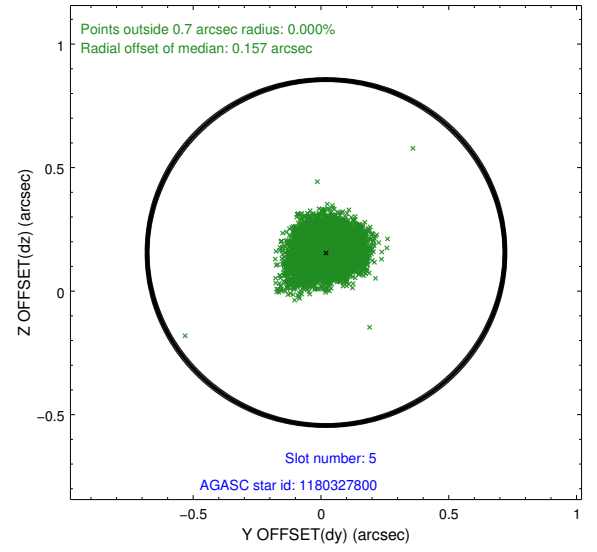
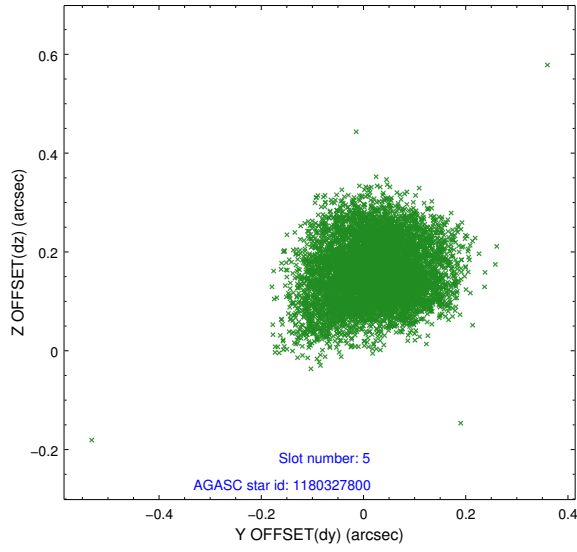
2.4.1 Slot 3



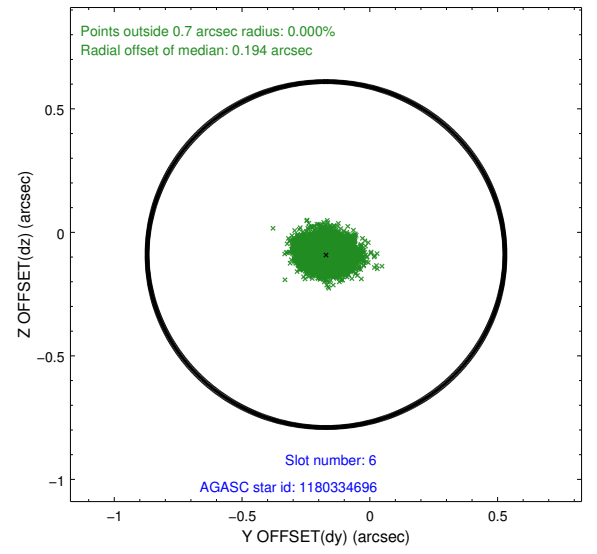
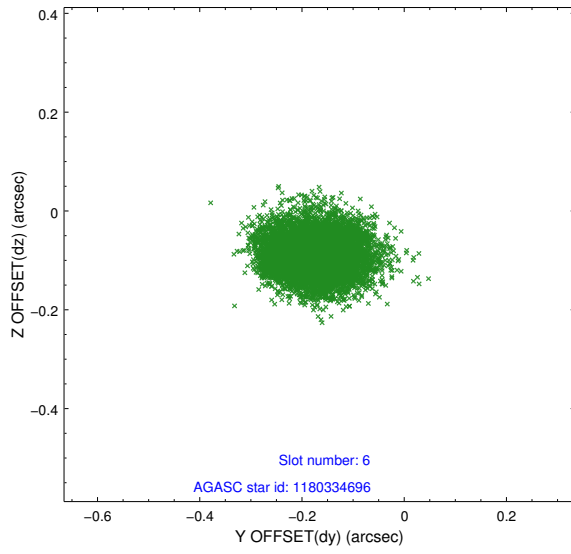
2.4.2 Slot 4



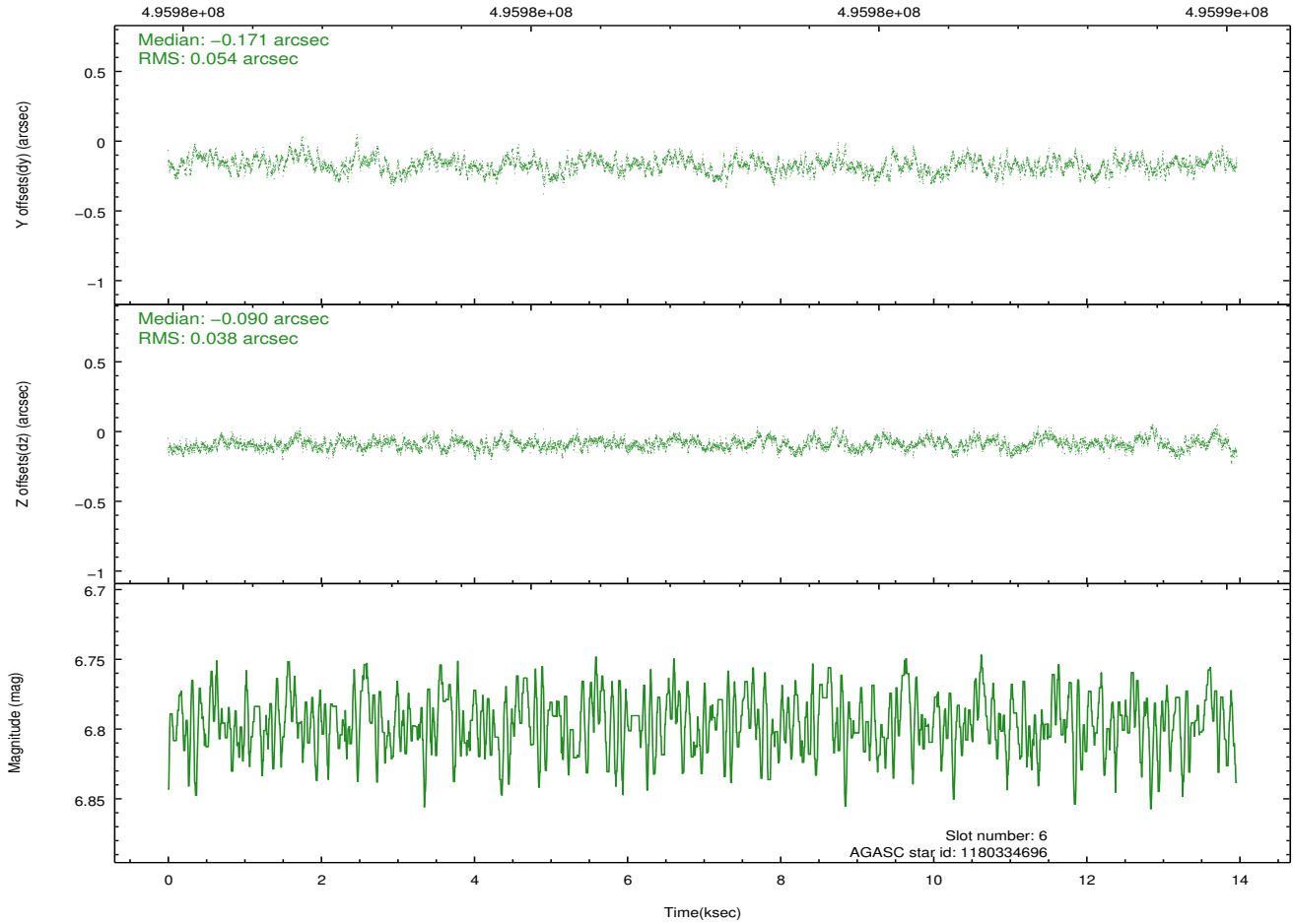
2.4.3 Slot 5



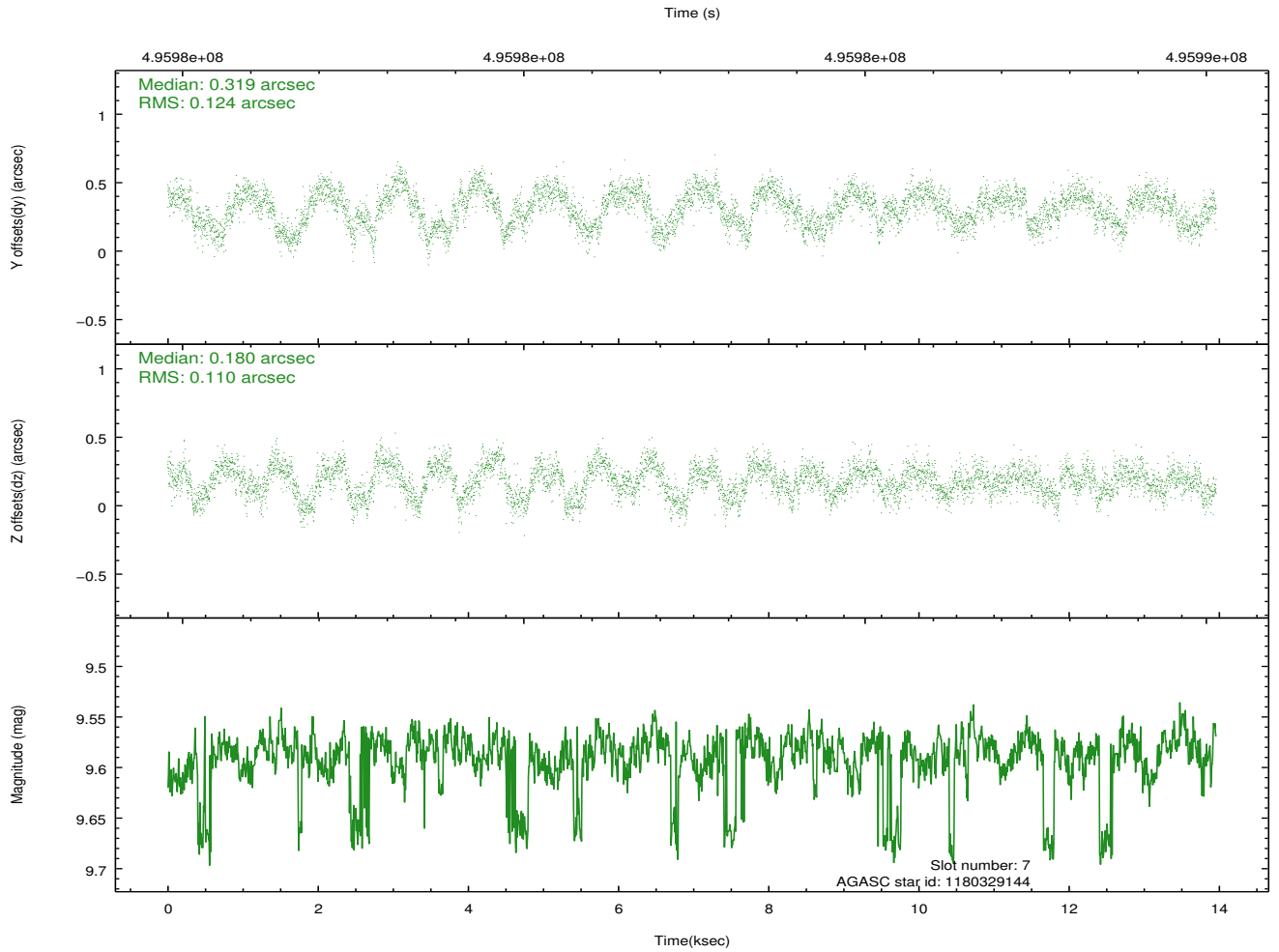
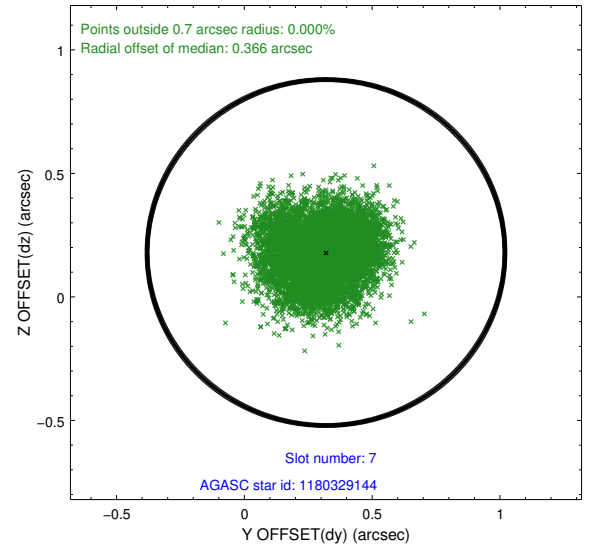
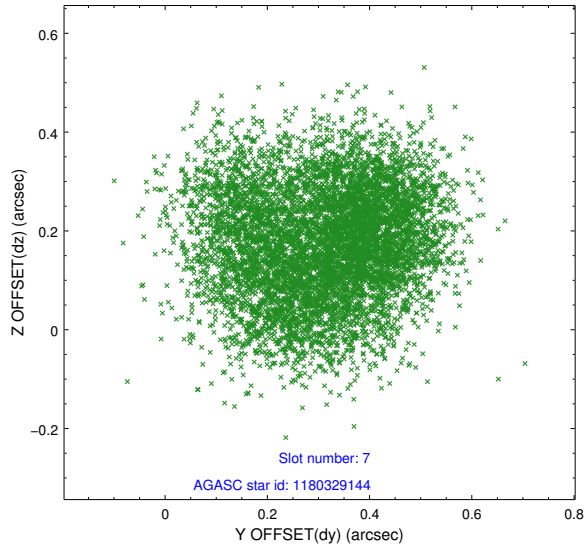
2.4.4 Slot 6



Time (s)

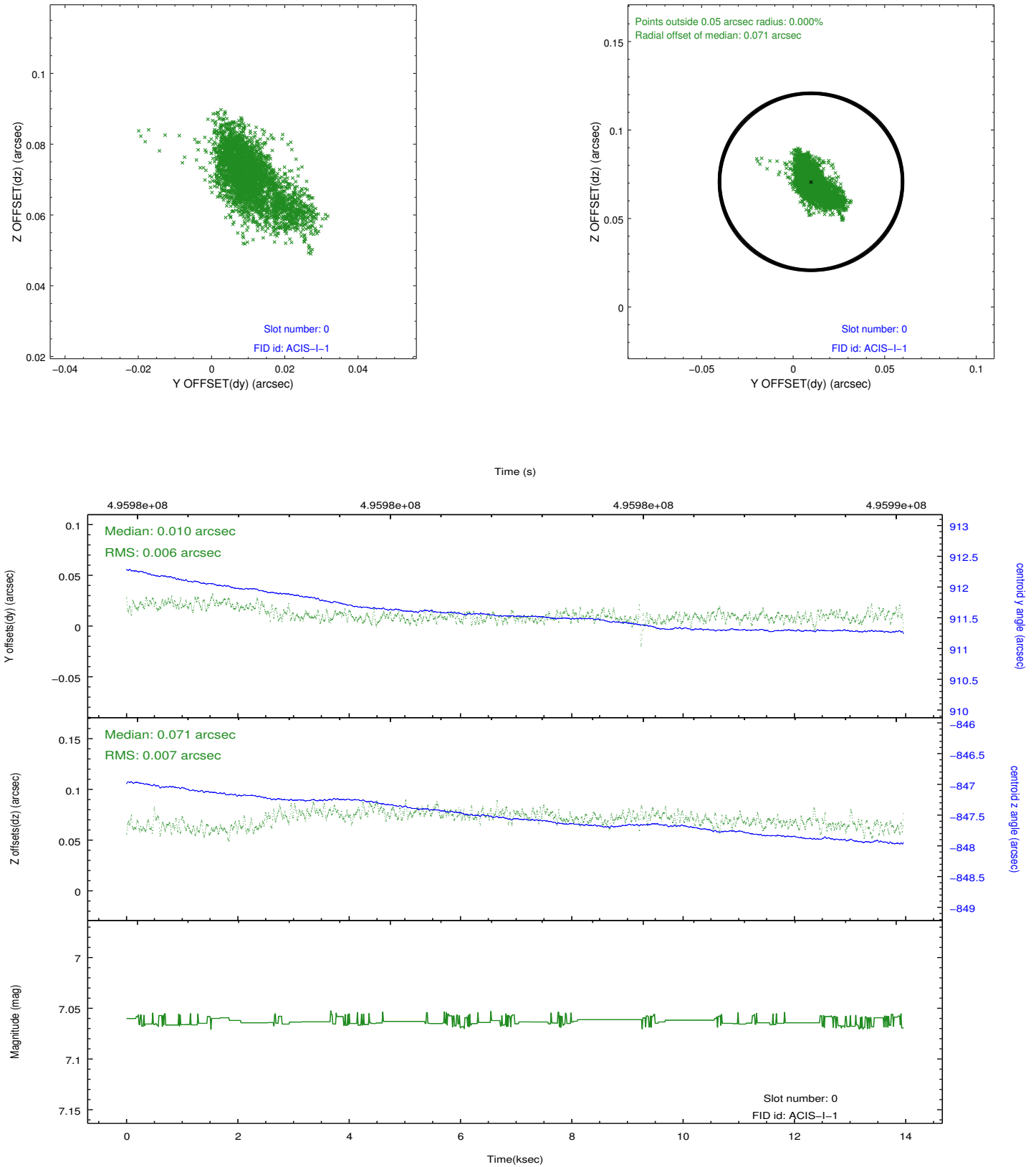


2.4.5 Slot 7

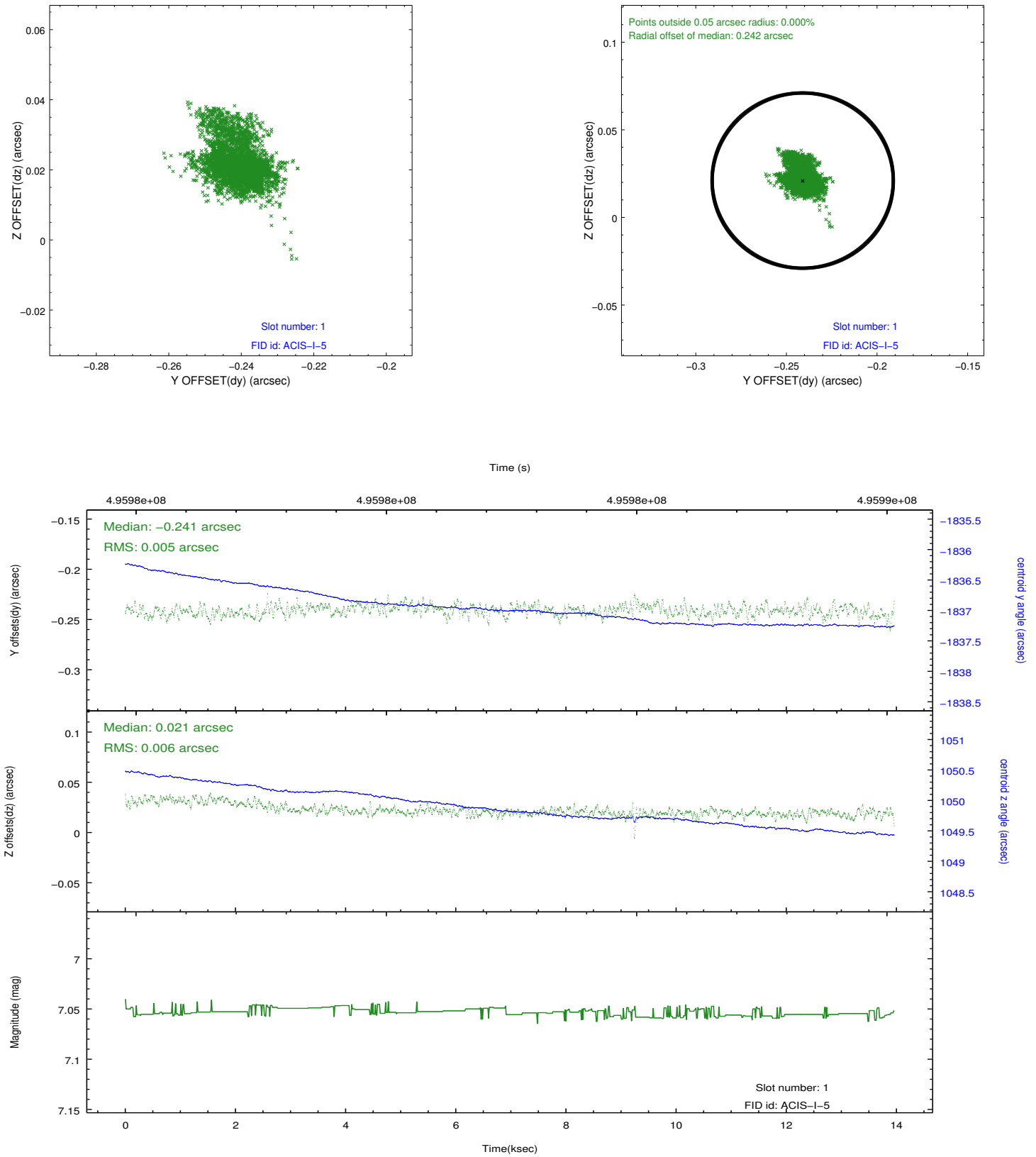


2.5 FID Slots

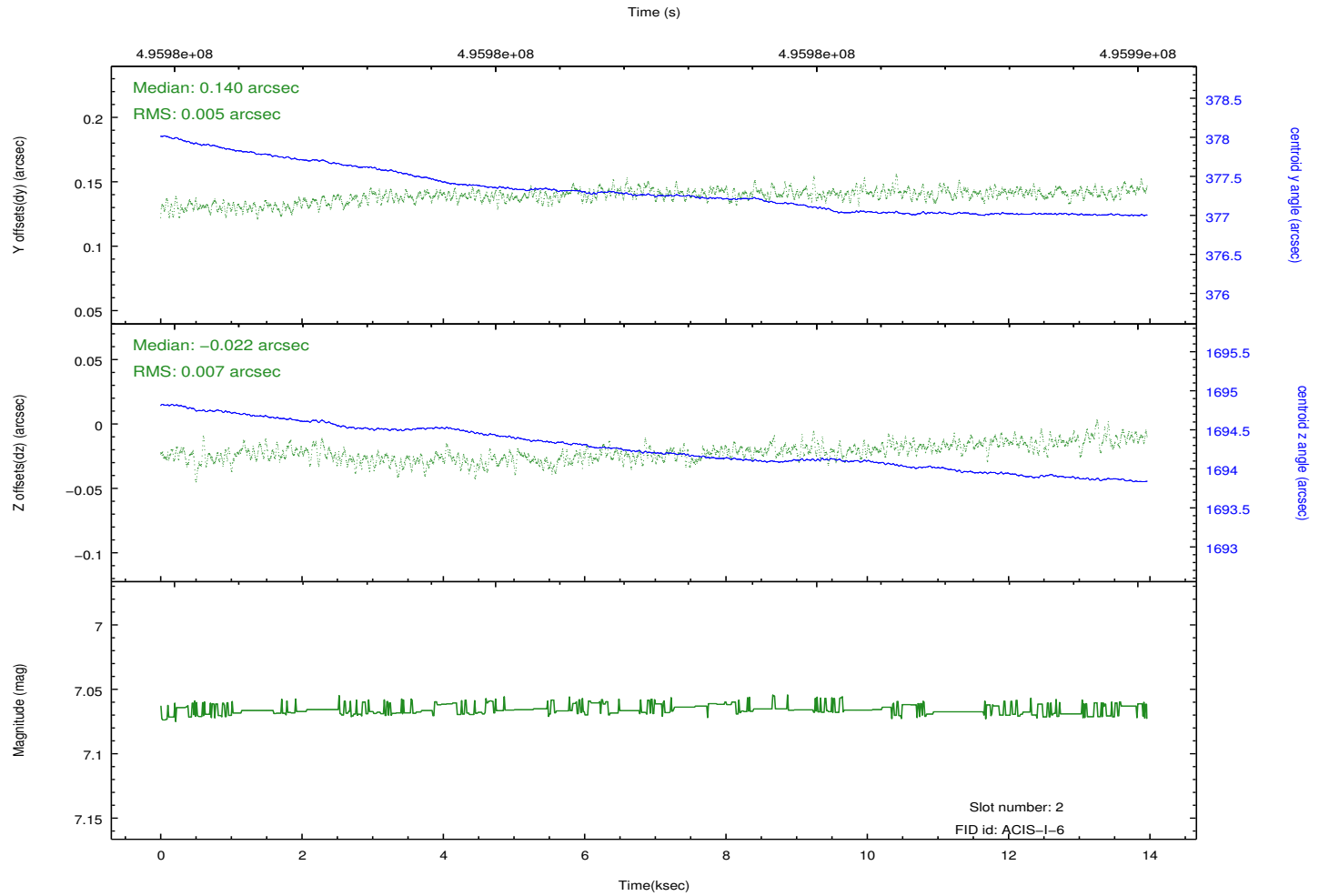
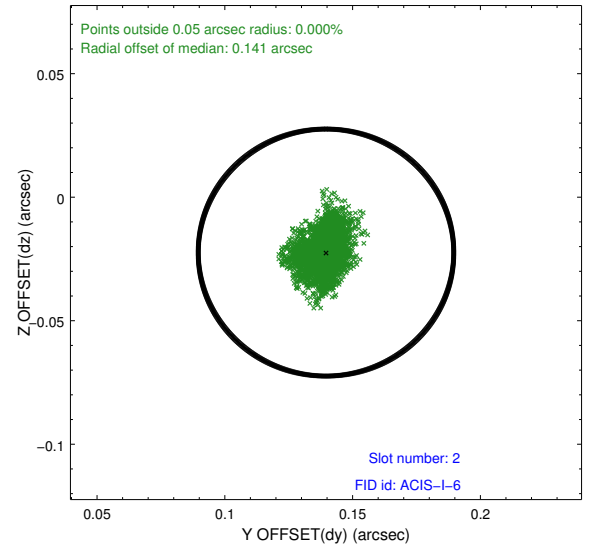
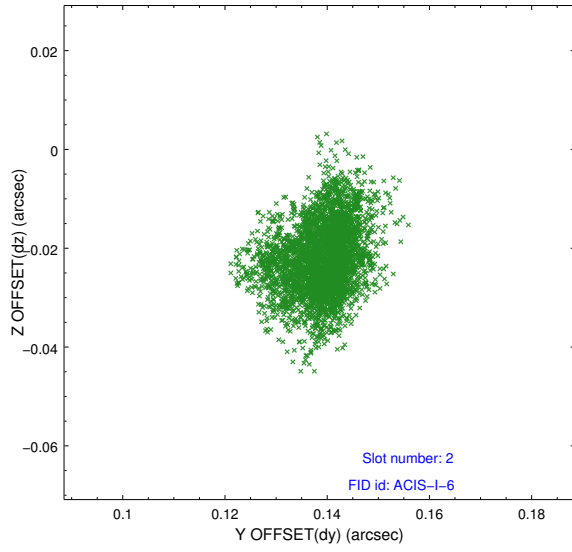
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.066459130168

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.