

V&V Reference Report

L2 ASCDS Version : 10

Observation 15318 - L2 Version 2
Chandra X-Ray Center

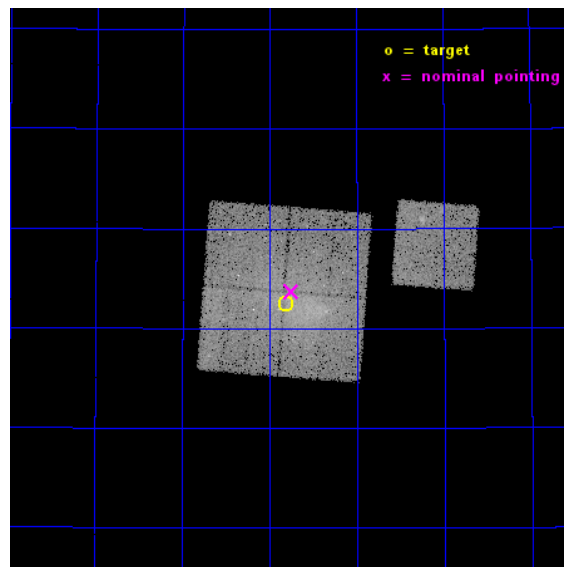
L2 Processing Date : Dec 3 2014

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1 Front

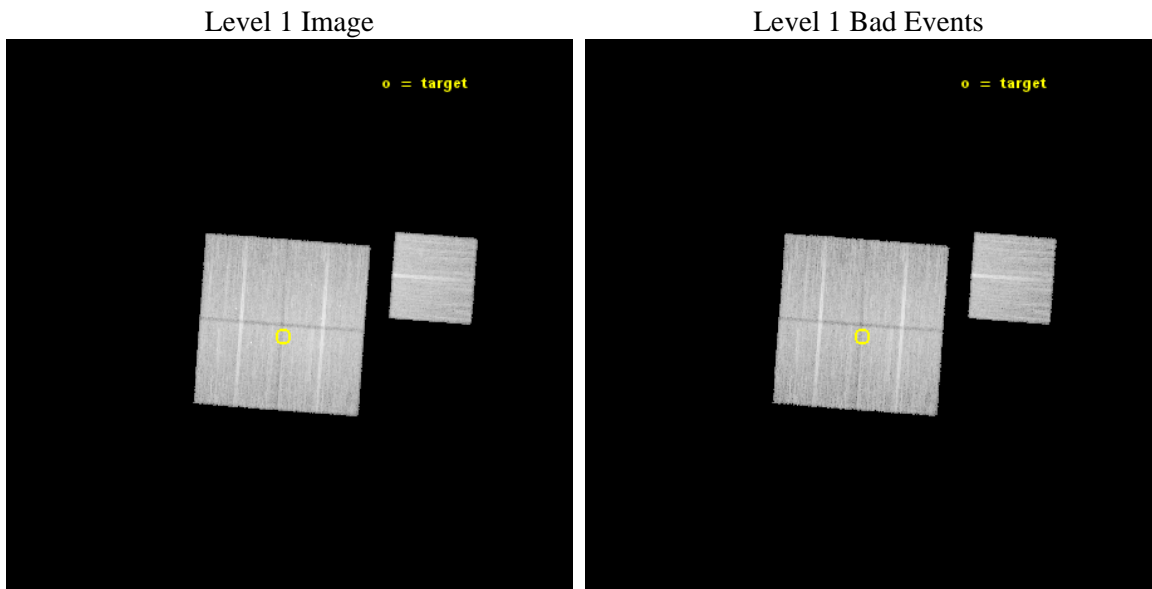
seq_num	801351	Sequence number
obs_id	15318	Observation id
title	Radio Relics (Type A)	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	ZwCl0008.8+5215	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	2.95375	Observer's specified target RA [deg]
dec_targ	52.541806	Observer's specified target Dec [deg]
ra_nom	2.9377472763067	Nominal RA [deg]
dec_nom	52.562186727637	Nominal Dec [deg]
roll_nom	94.302508979139	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29338.359235406	Sum of GTIs [s]
livetime	28955.031973409	Livetime [s]
ontime0	29341.500225663	Sum of GTIs [s]
ontime1	29338.359235406	Sum of GTIs [s]
ontime2	29341.500225663	Sum of GTIs [s]
ontime3	29341.500225663	Sum of GTIs [s]
ontime6	29338.359255314	Sum of GTIs [s]
l2events	84017	Number of level 2 events



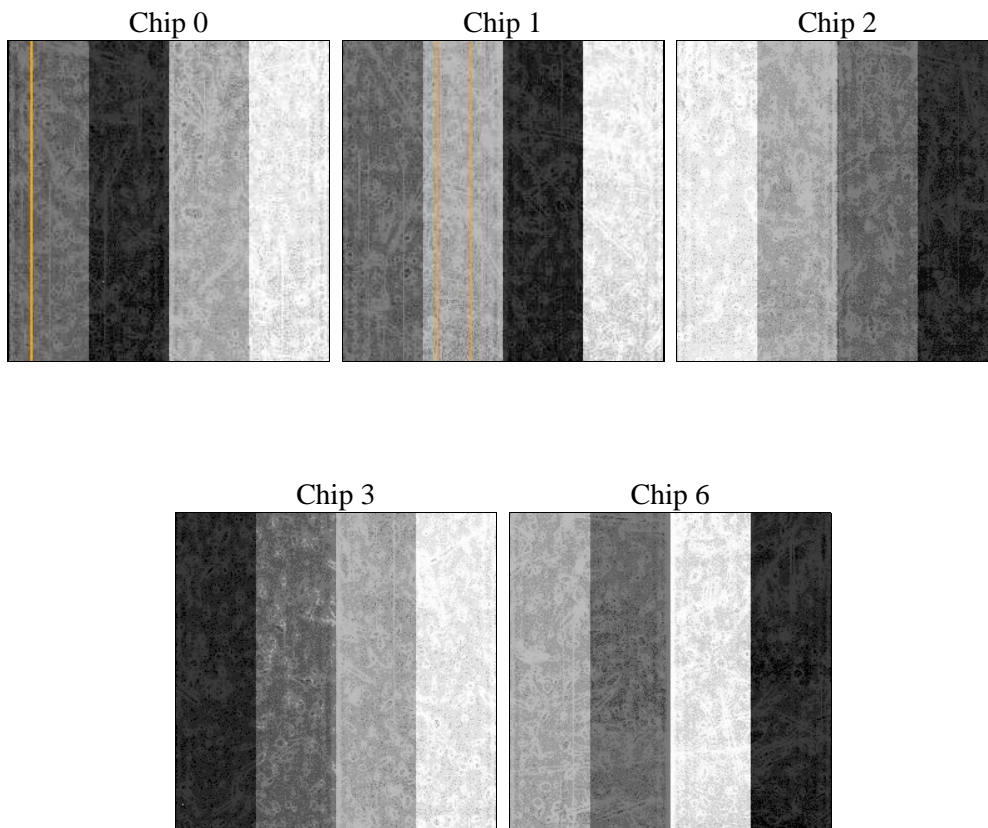
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29254.653000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	29338.359235406	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	29341.500225663	Sum of GTIs [s]
date	2014-12-03T16:46:05	Date and time of file creation	ontime1	29338.359235406	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	29341.500225663	Sum of GTIs [s]
			ontime3	29341.500225663	Sum of GTIs [s]
			ontime6	29338.359255314	Sum of GTIs [s]
			l1events	676175	Number of level 1 events

2.1.4 Events

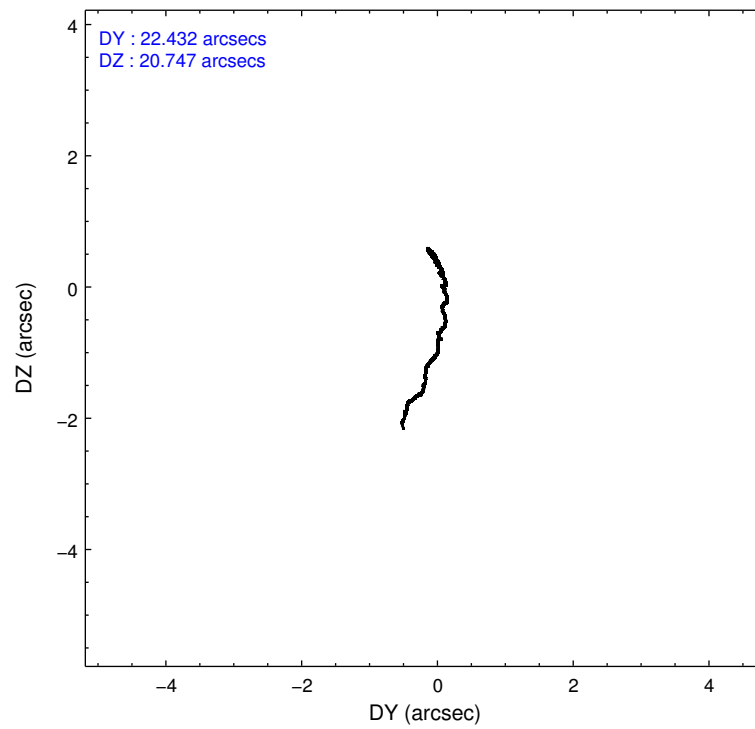
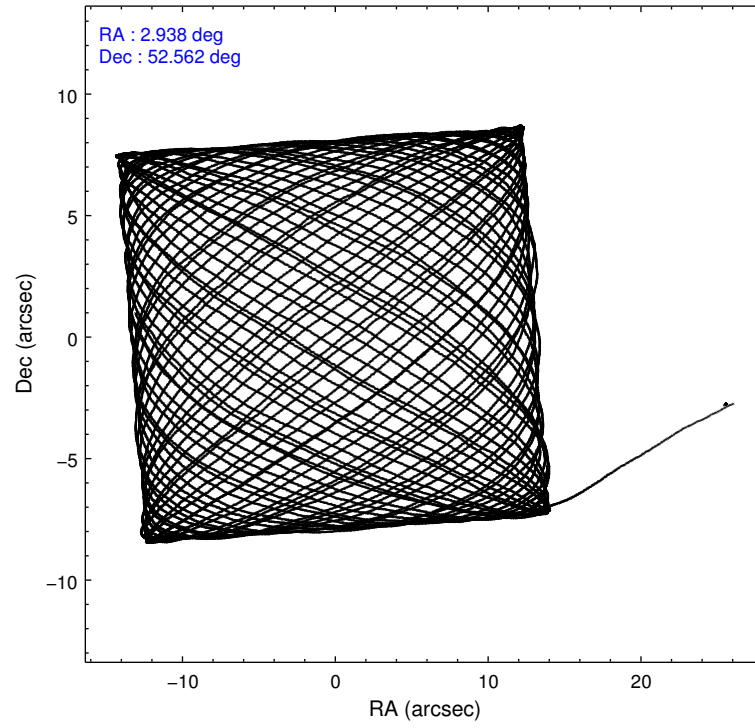
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	128141	130977	141578	141142	134337
rejected events	109637	109317	123257	118555	118080
rejected %	85%	83%	87%	83%	87%

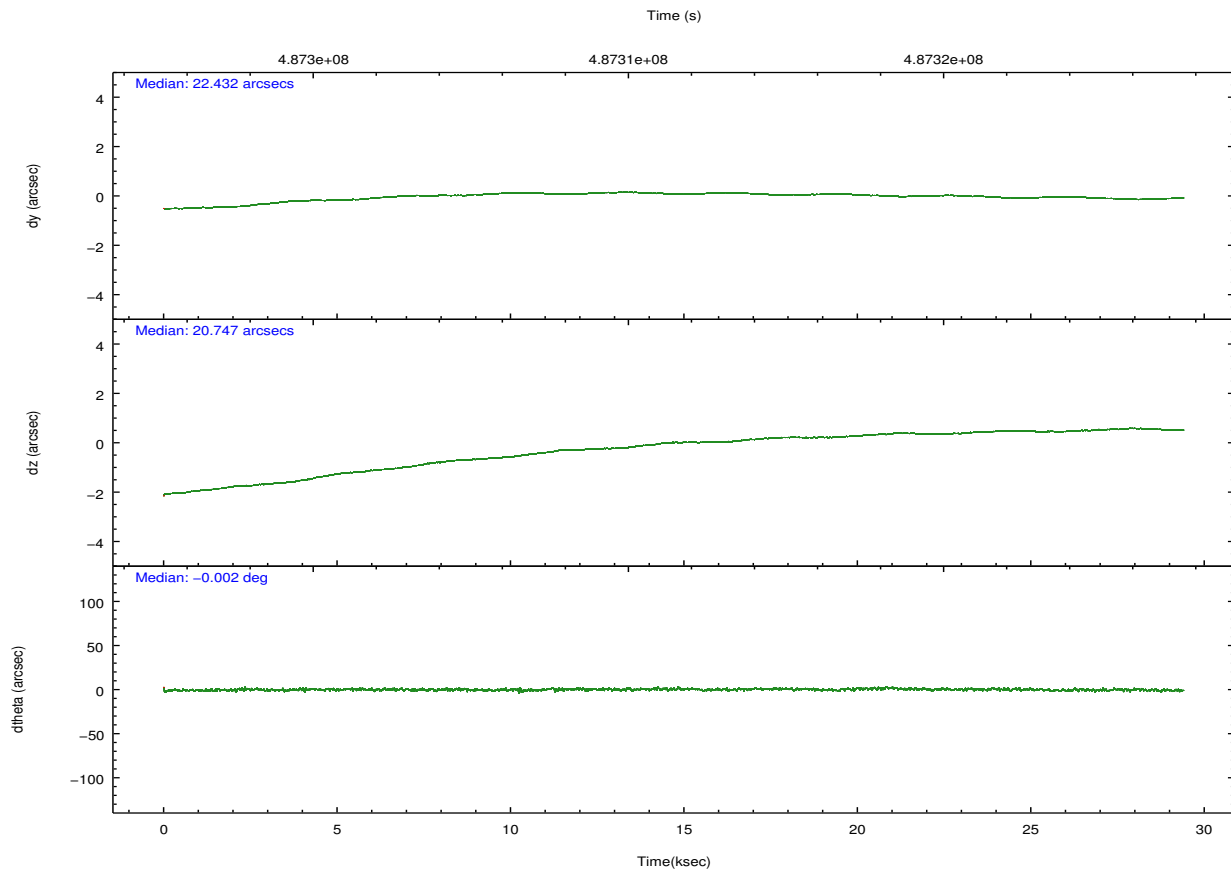
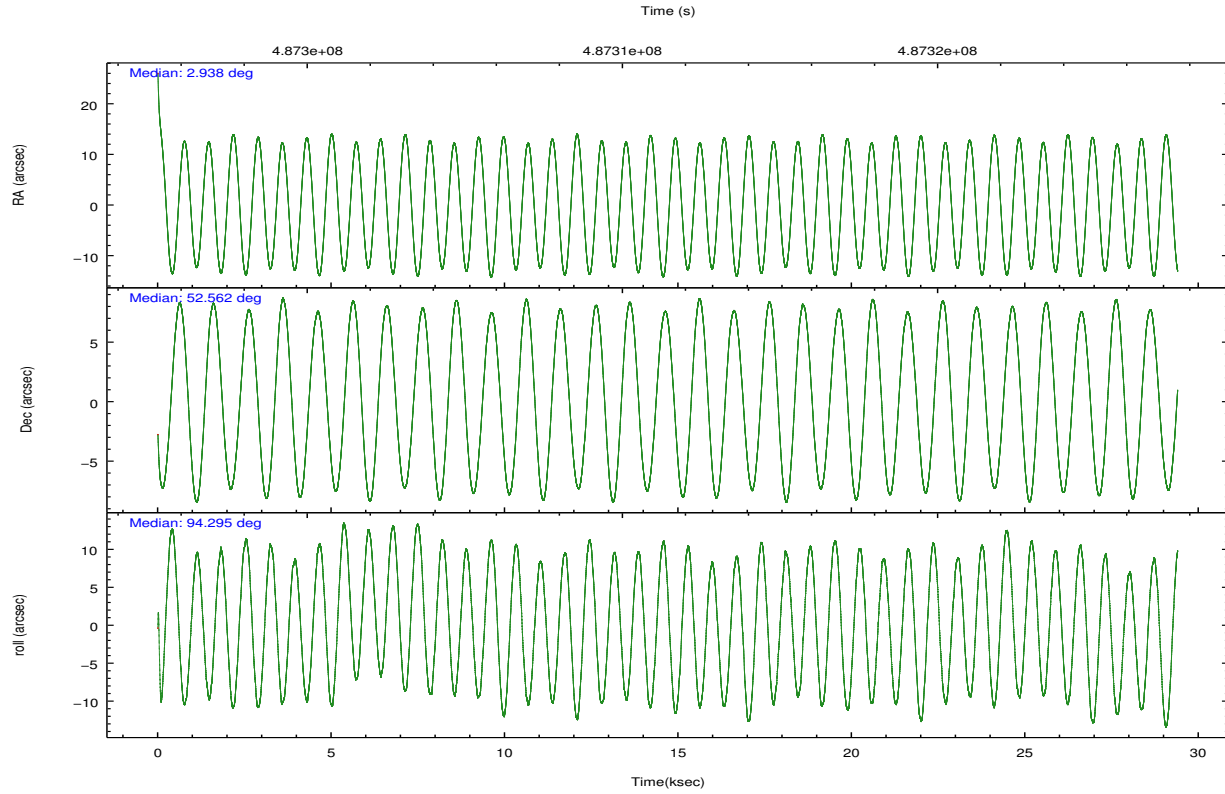
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7371	9156	7484	11212	5553
	5%	6%	5%	7%	4%
grade 1 events	80	64	74	103	64
	0%	0%	0%	0%	0%
grade 2 events	4297	4842	4198	4218	3634
	3%	3%	2%	2%	2%
grade 3 events	1782	1884	1691	1892	1643
	1%	1%	1%	1%	1%
grade 4 events	1693	1824	1724	1846	1658
	1%	1%	1%	1%	1%
grade 5 events	6550	6839	6019	7355	7135
	5%	5%	4%	5%	5%
grade 6 events	3361	3955	3225	3423	3770
	2%	3%	2%	2%	2%
grade 7 events	103007	102413	117163	111093	110880
	80%	78%	82%	78%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	2.963363	2.937747276306709	CCD I2 on	Y	Y
[deg] Pointing Dec	52.539549	52.5621867276366	CCD I3 on	Y	Y
[deg] Pointing Roll	94.073476	94.30250897913908	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	487296889.184000	487295811.66873	CCD S5 on	N	N
Observation start date	2013-06-11T00:13:42	2013-06-10T23:56:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	487326143.184000	487326380.75792	On-chip summing requested	N	N
Observation end date	2013-06-11T08:21:16	2013-06-11T08:26:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



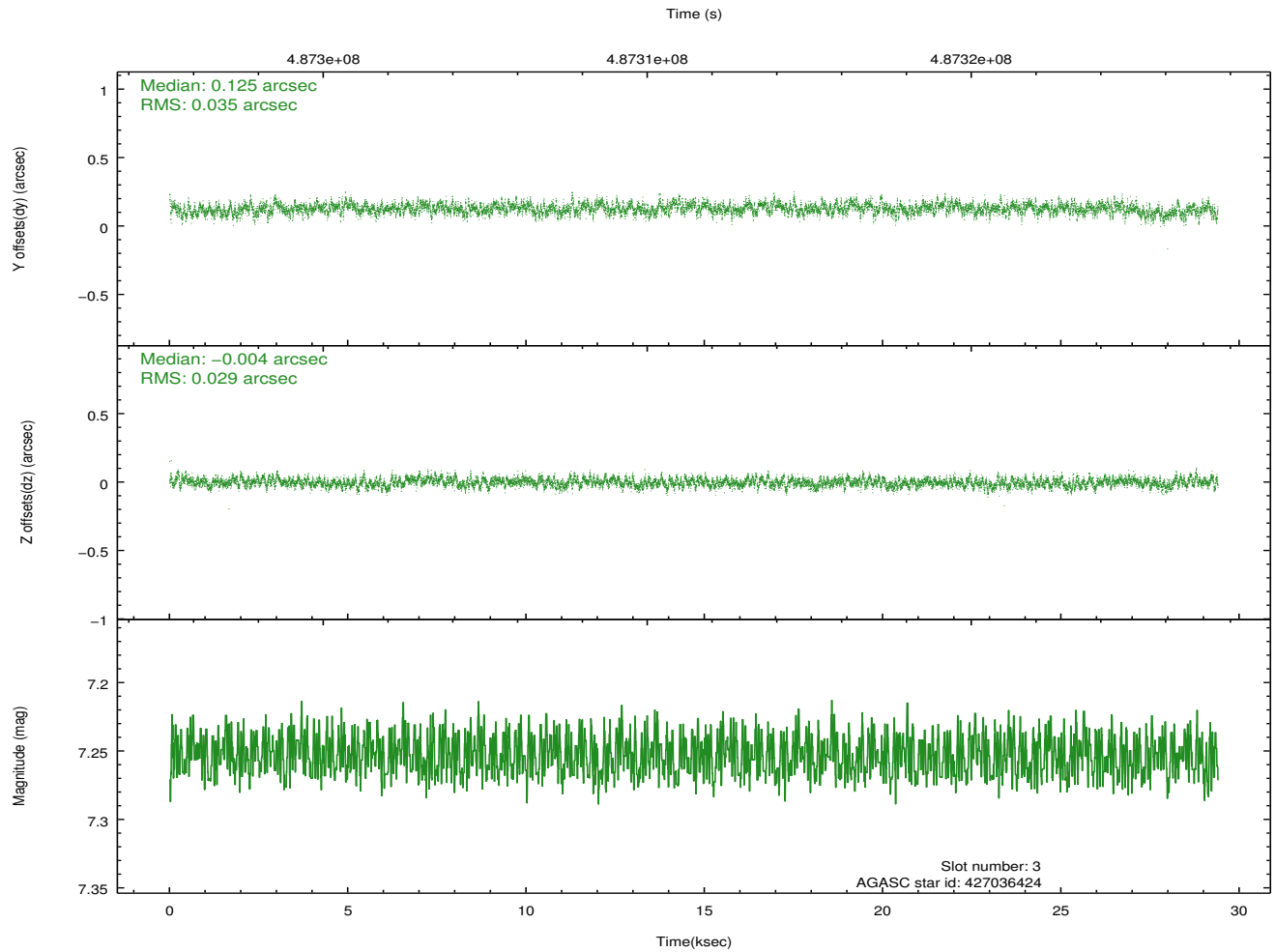
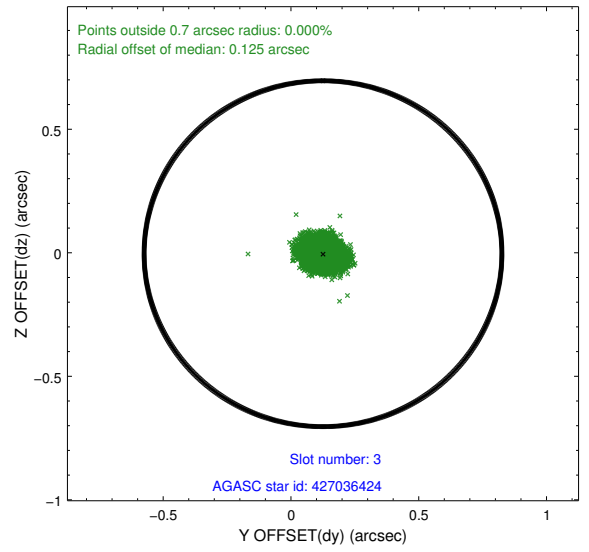
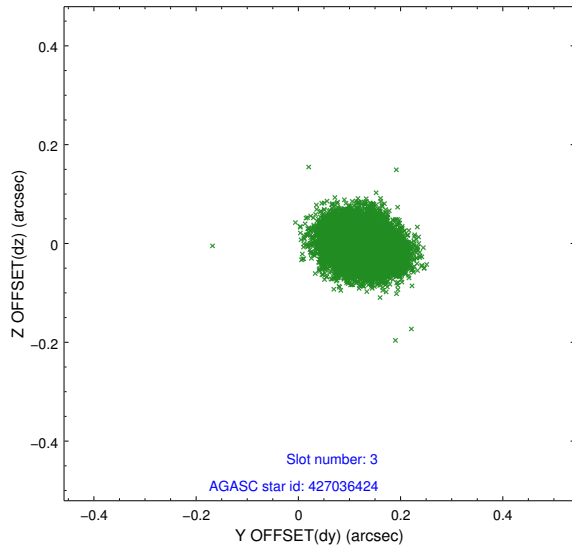


Slot Statistics

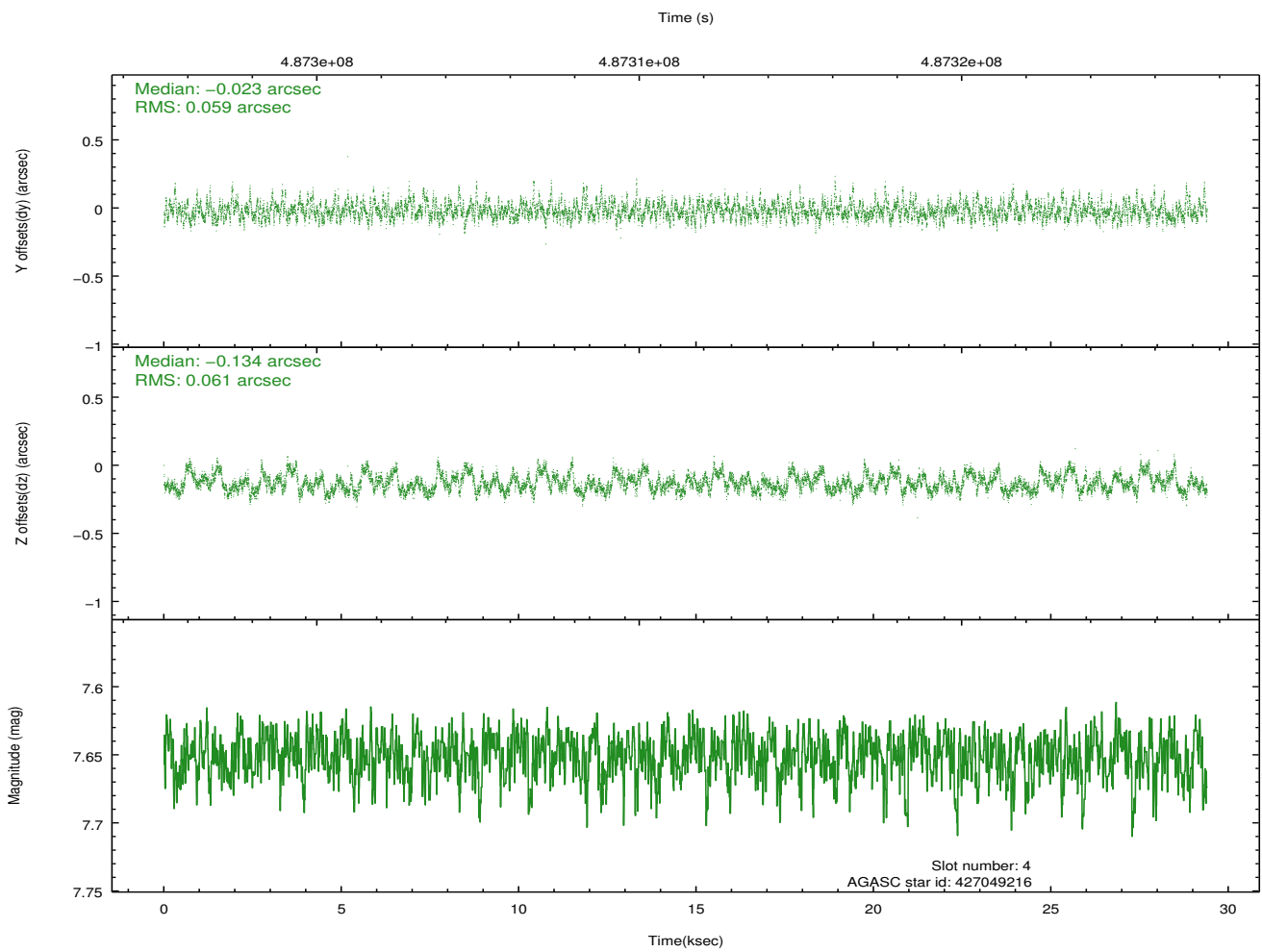
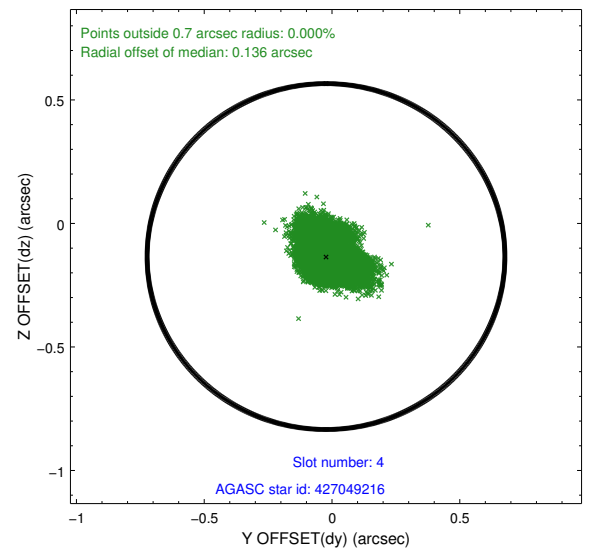
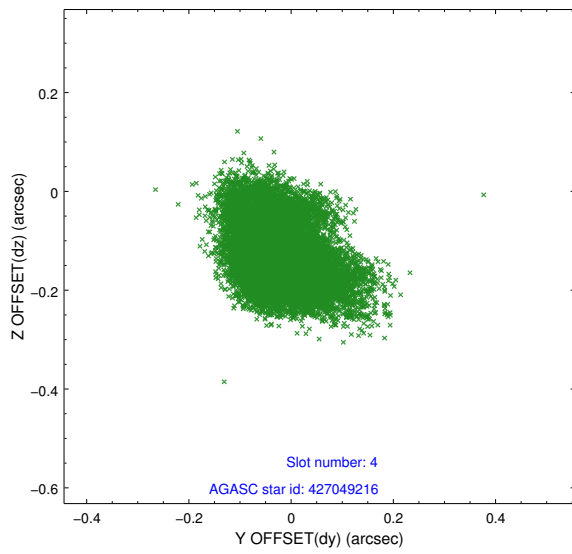
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	7170	-0.065	-0.000	0.041	0.077	0.000000	0.000000	916.81	-844.15
1	FID		ACIS-I-2	6.99	7170	-0.196	-0.100	0.021	0.041	0.000000	0.000000	-777.36	-850.75
2	FID		ACIS-I-4	7.00	7171	0.165	0.168	0.022	0.039	0.000000	0.000000	2136.88	1055.78
3	GUIDE	used	427036424	7.25	14342	0.125	-0.004	0.048	0.079	2.620815	51.912344	-2196.31	919.13
4	GUIDE	used	427049216	7.65	14342	-0.023	-0.134	0.088	0.149	2.568599	52.255138	-957.09	940.34
5	GUIDE	used	478817384	8.27	14338	0.064	0.374	0.079	0.126	3.580009	52.860975	1065.25	-1418.74
6	GUIDE	used	478818512	8.16	14339	0.001	0.177	0.084	0.133	3.766666	52.639607	245.02	-1776.38
7	GUIDE	used	478686592	8.79	14333	-0.176	-0.423	0.085	0.135	1.932115	53.105725	2207.31	2077.17

2.4 Star Slots

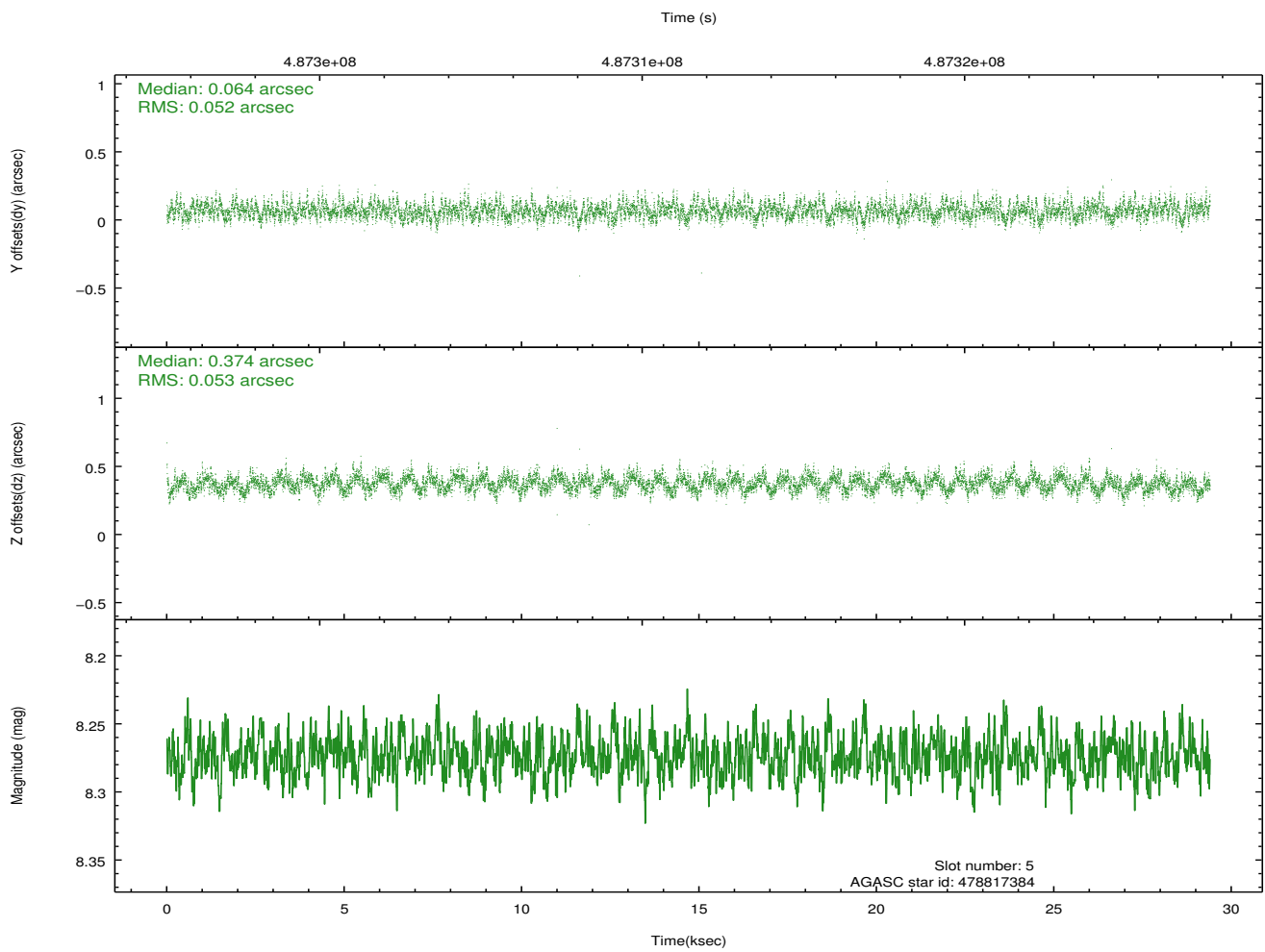
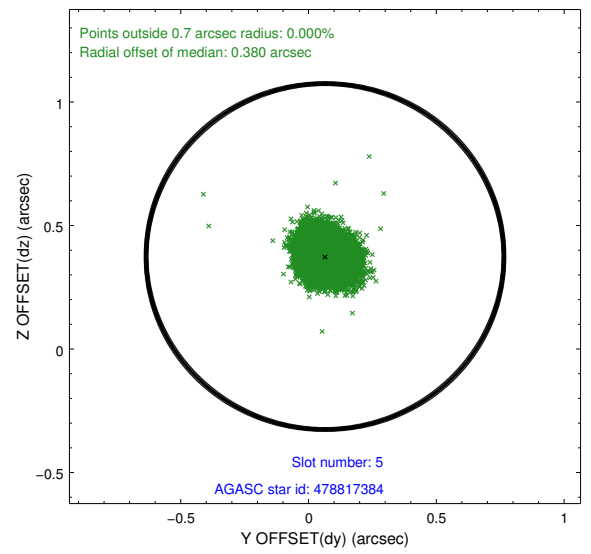
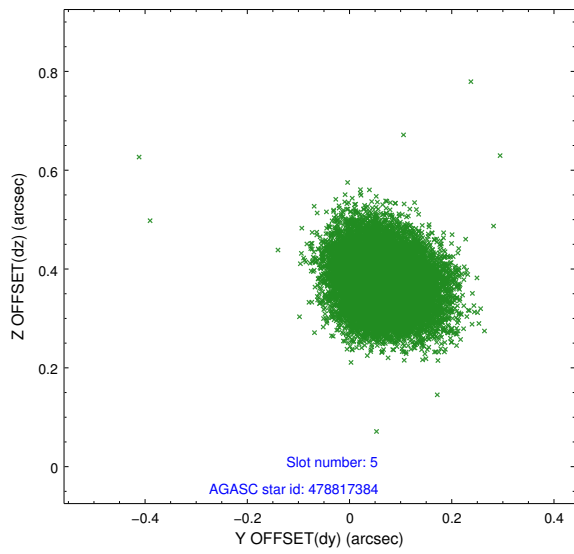
2.4.1 Slot 3



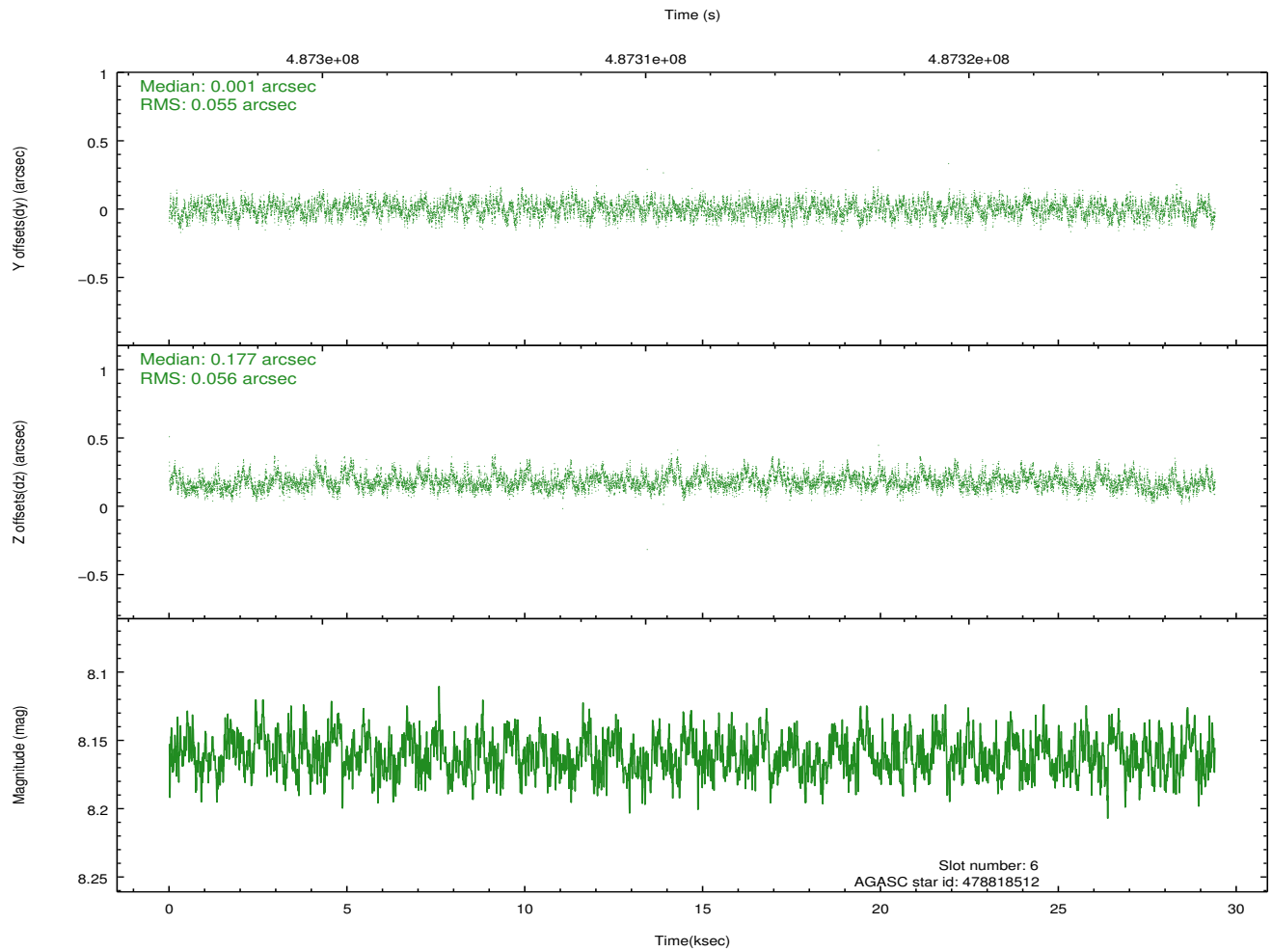
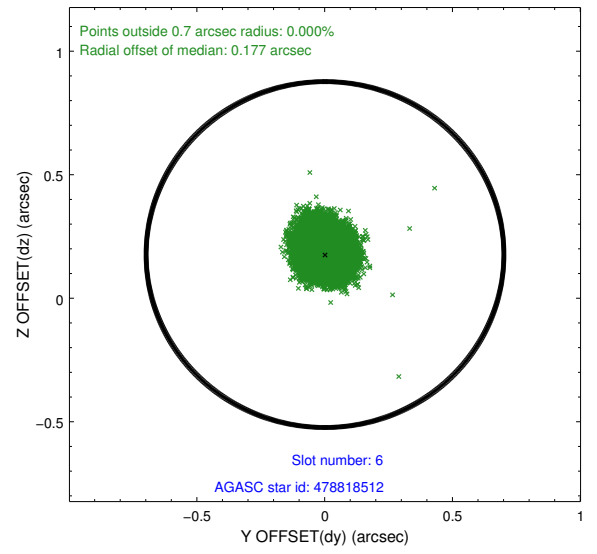
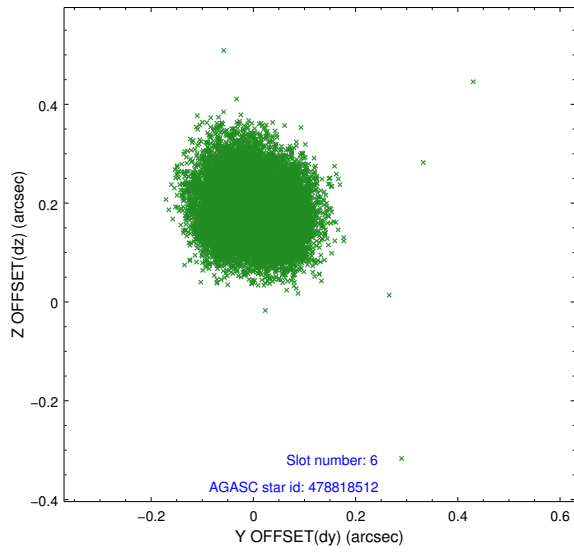
2.4.2 Slot 4



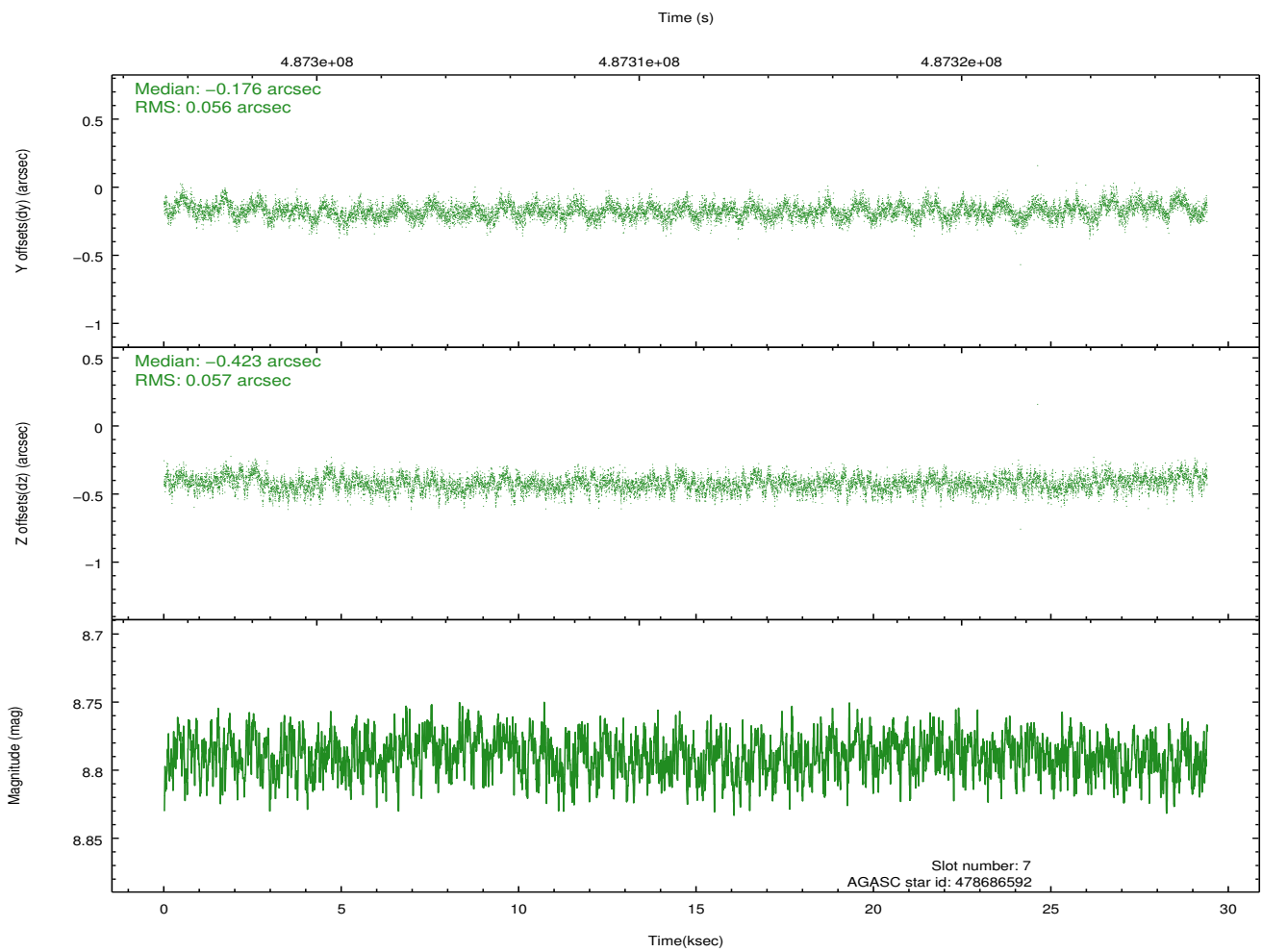
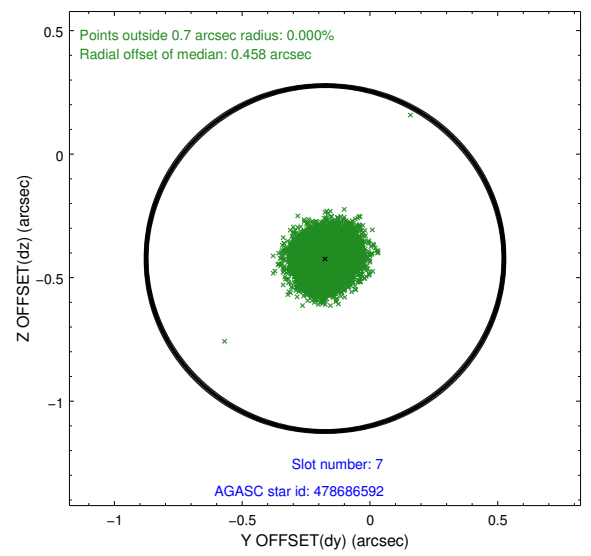
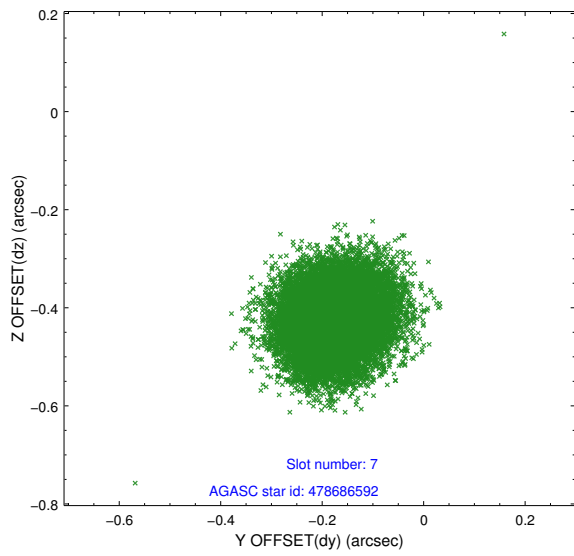
2.4.3 Slot 5



2.4.4 Slot 6

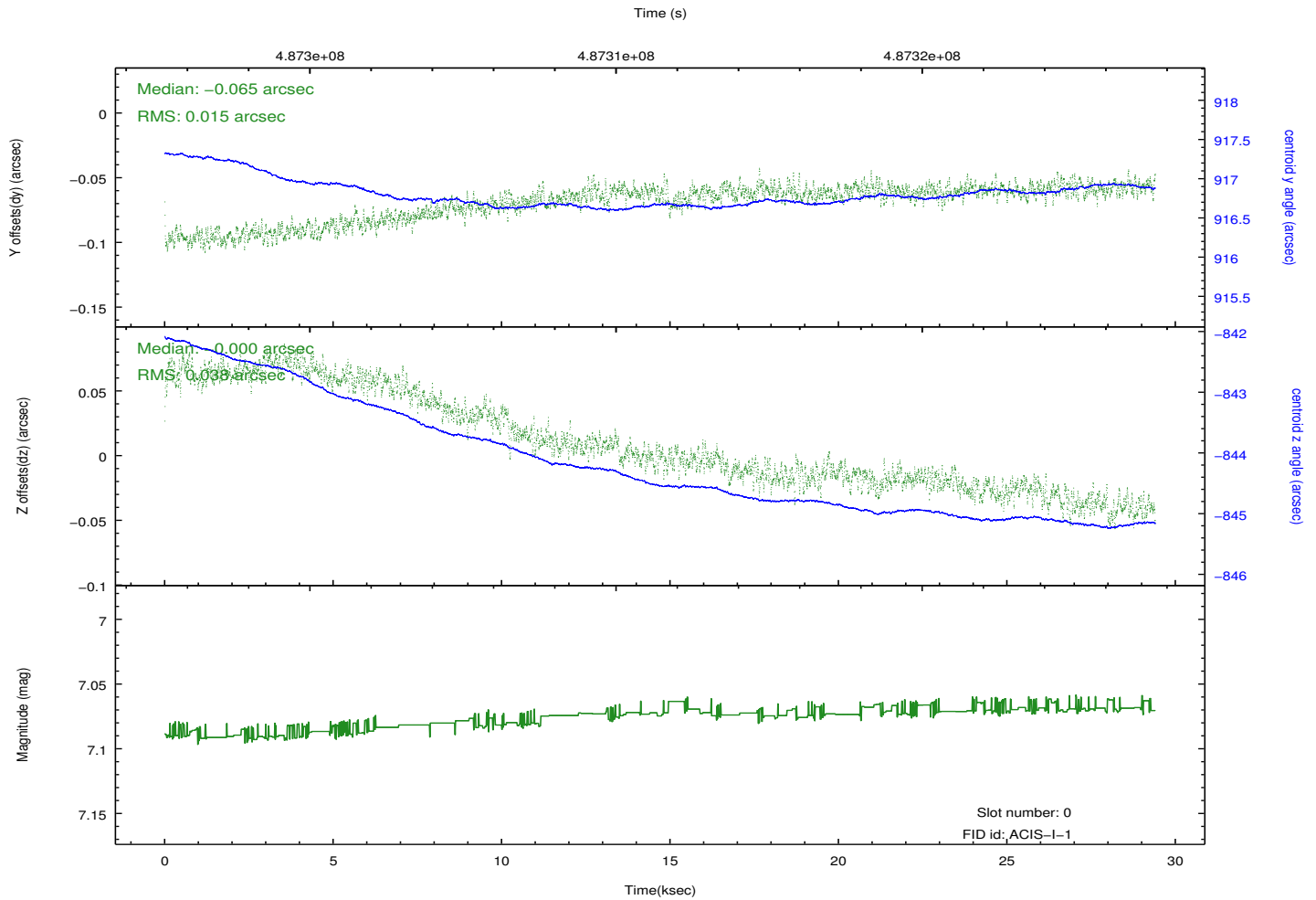
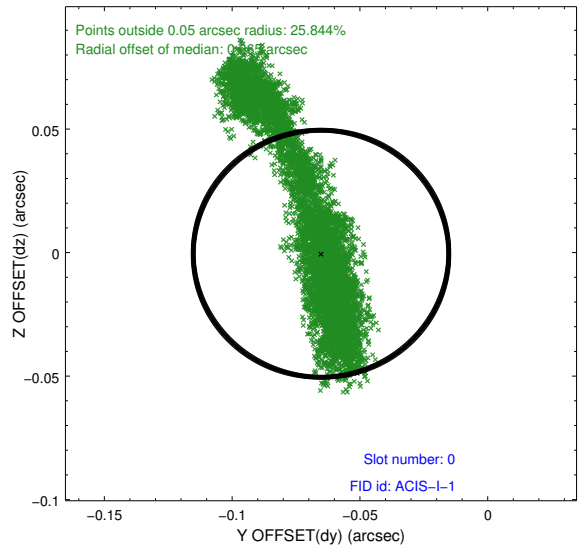
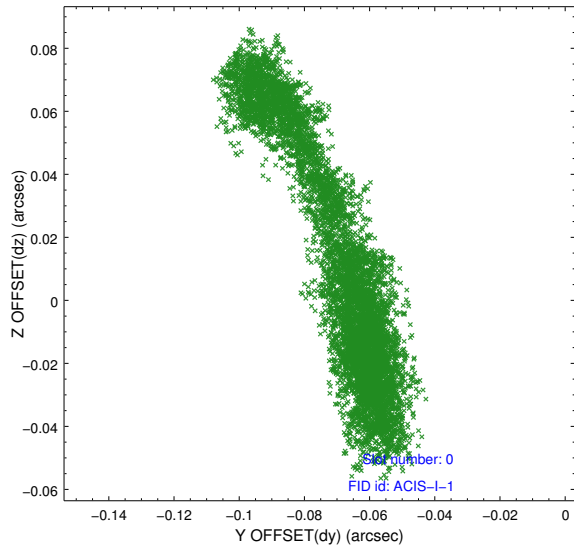


2.4.5 Slot 7

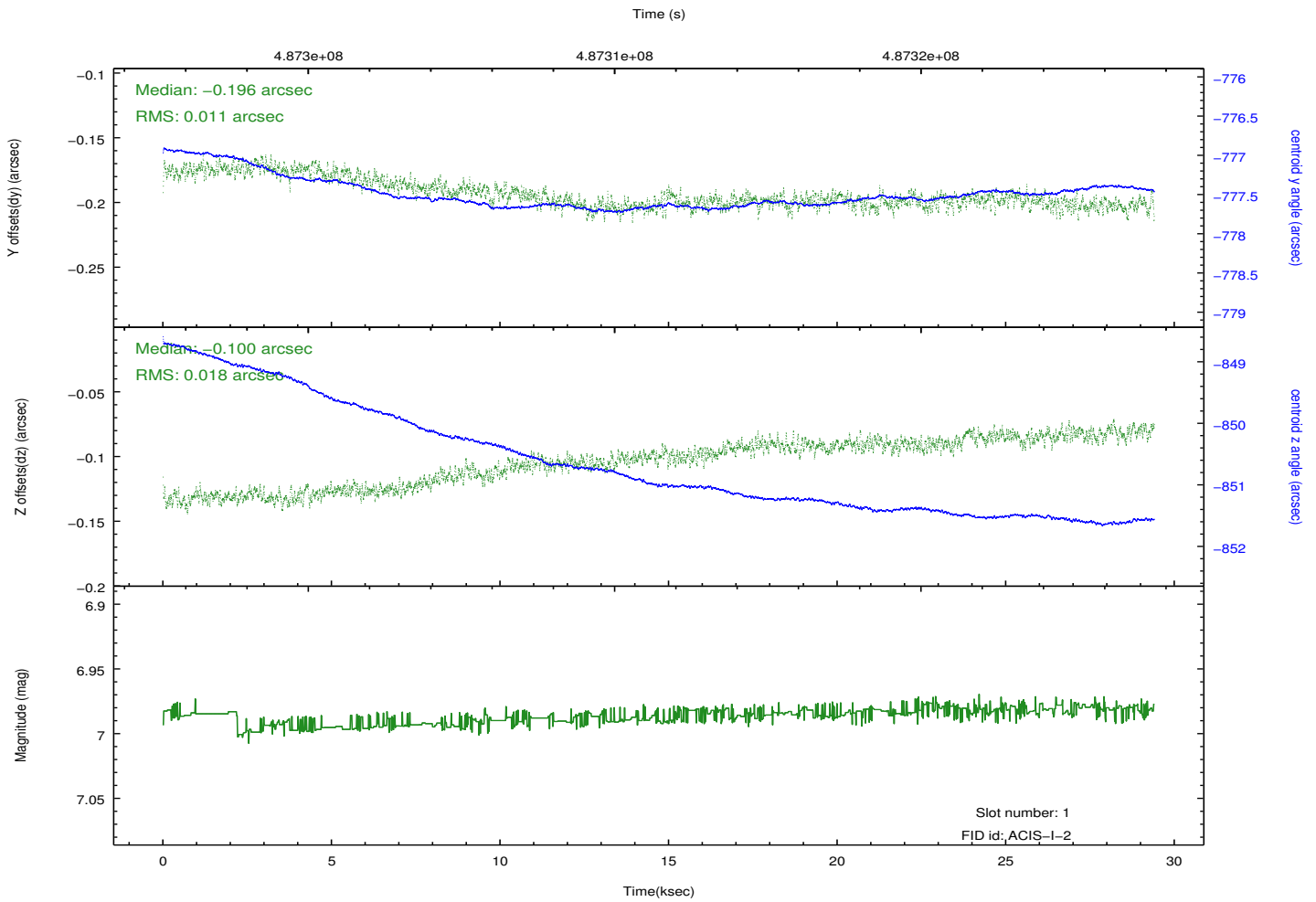
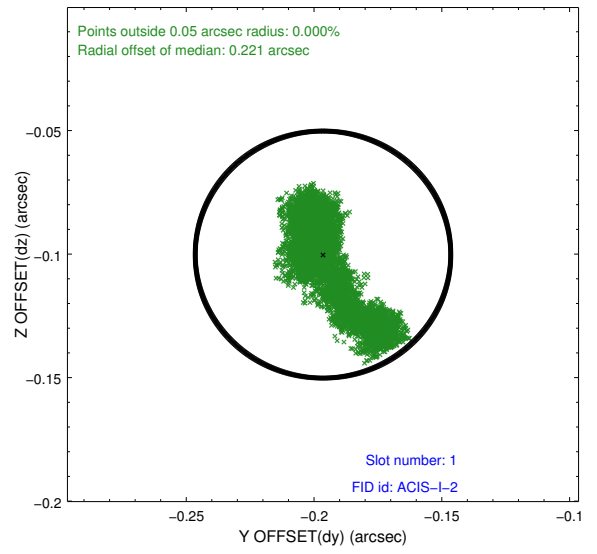
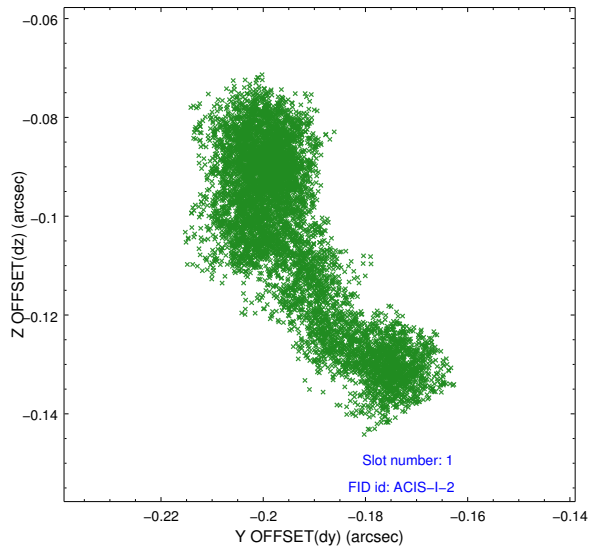


2.5 FID Slots

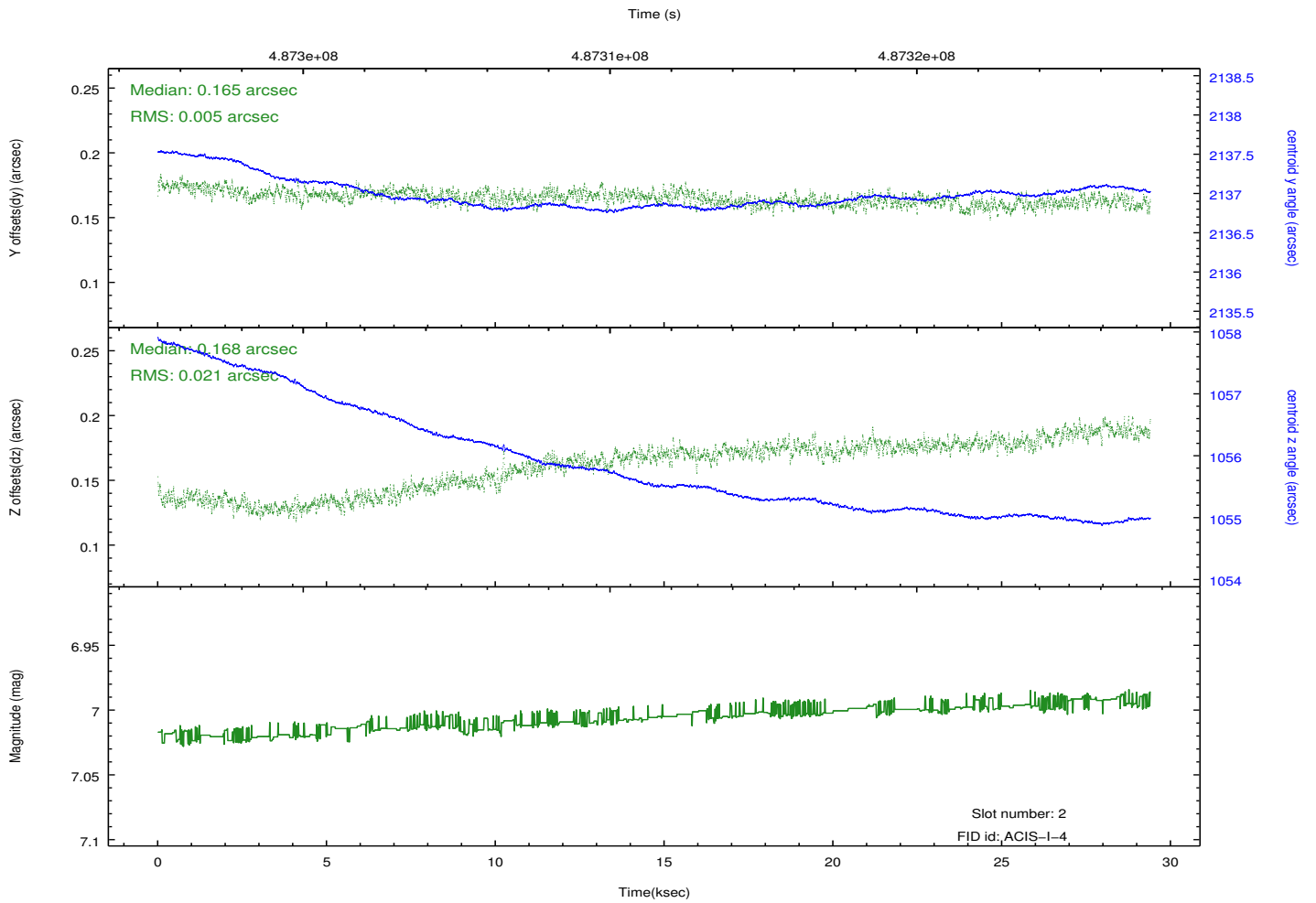
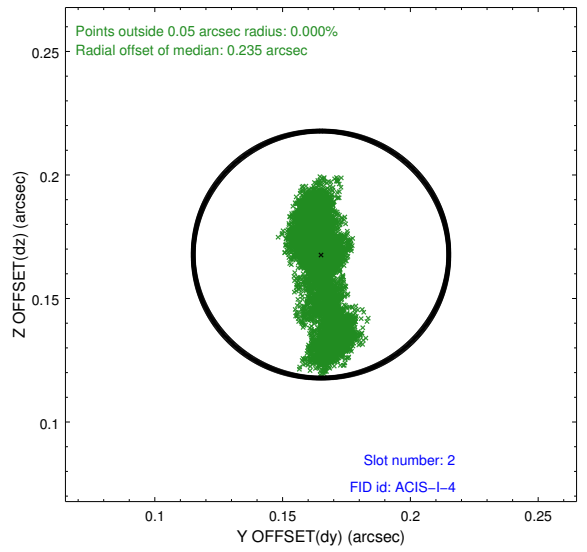
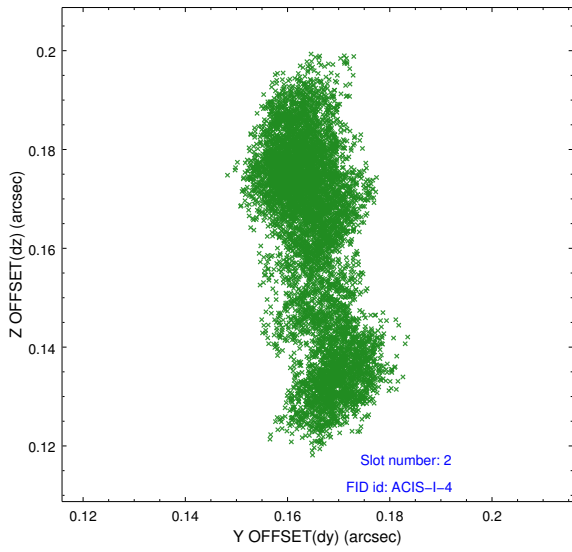
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.338359235406

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.