

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14826 - L2 Version 2
Chandra X-Ray Center

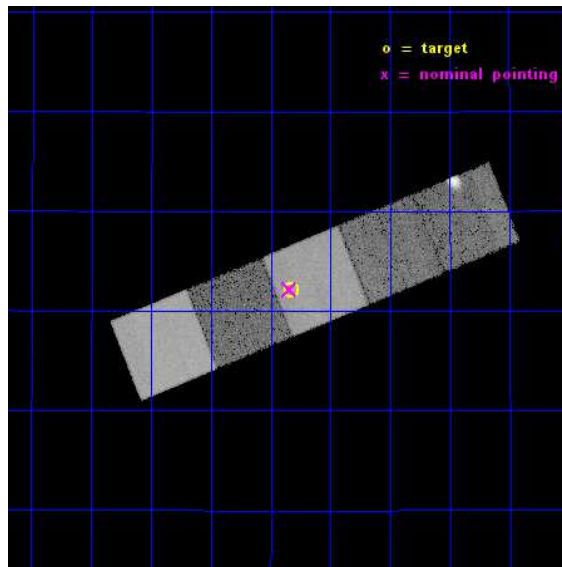
L2 Processing Date : Nov 30 2014

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1 Front

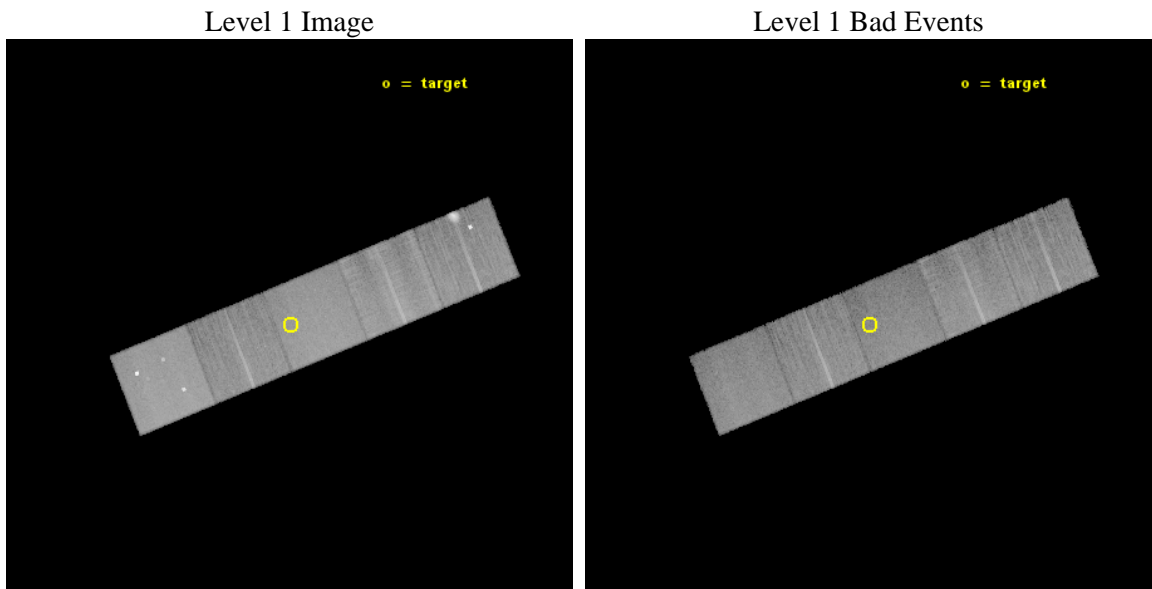
seq_num	501952	Sequence number
obs_id	14826	Observation id
title	Searching for X-ray counterparts of radio-quiet Fermi pulsars	Prop
observer	Dr. Martino Marelli	Principal investigator
object	PSR J2028+3332	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.082917	Observer's specified target RA [deg]
dec_targ	33.534611	Observer's specified target Dec [deg]
ra_nom	307.08587550326	Nominal RA [deg]
dec_nom	33.536365065855	Nominal Dec [deg]
roll_nom	337.99491751125	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25063.500192761	Sum of GTIs [s]
livetime	24736.027111263	Livetime [s]
ontime5	25063.500192761	Sum of GTIs [s]
ontime6	25063.500192761	Sum of GTIs [s]
ontime7	25063.500192761	Sum of GTIs [s]
ontime8	25063.500192761	Sum of GTIs [s]
ontime9	25063.500192761	Sum of GTIs [s]
l2events	238870	Number of level 2 events



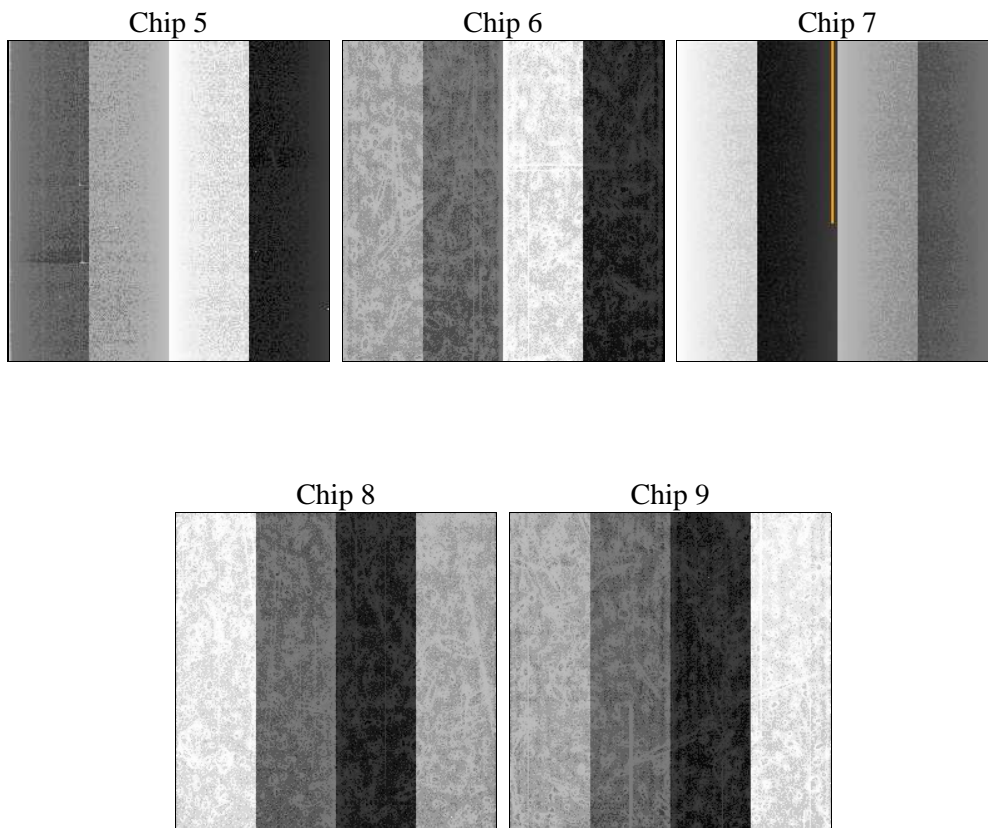
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25063.500192761	Sum of GTIs [s]
caldbver	4.6.4	 	ontime5	25063.500192761	Sum of GTIs [s]
date	2014-11-30T22:17:46	Date and time of file creation	ontime6	25063.500192761	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	25063.500192761	Sum of GTIs [s]
			ontime8	25063.500192761	Sum of GTIs [s]
			ontime9	25063.500192761	Sum of GTIs [s]
			l1events	901746	Number of level 1 events

2.1.4 Events

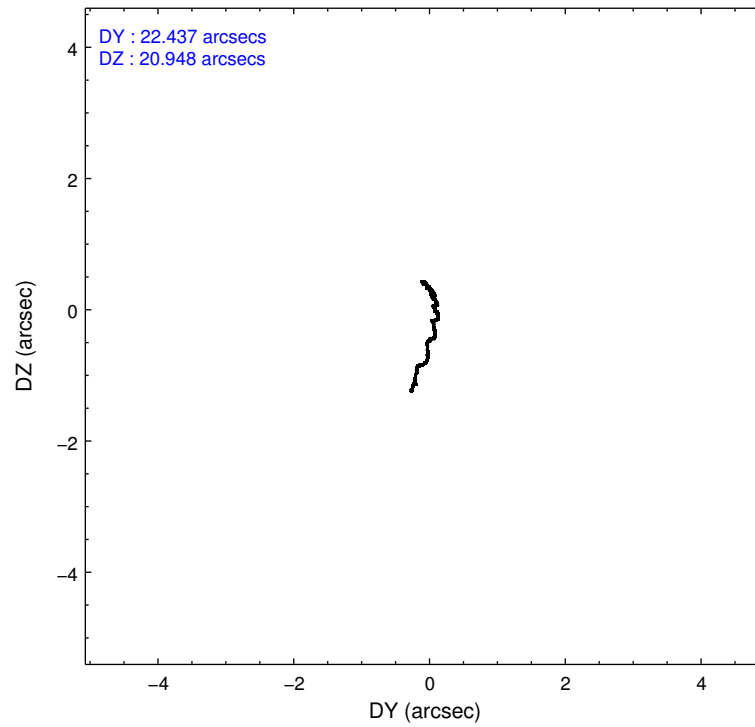
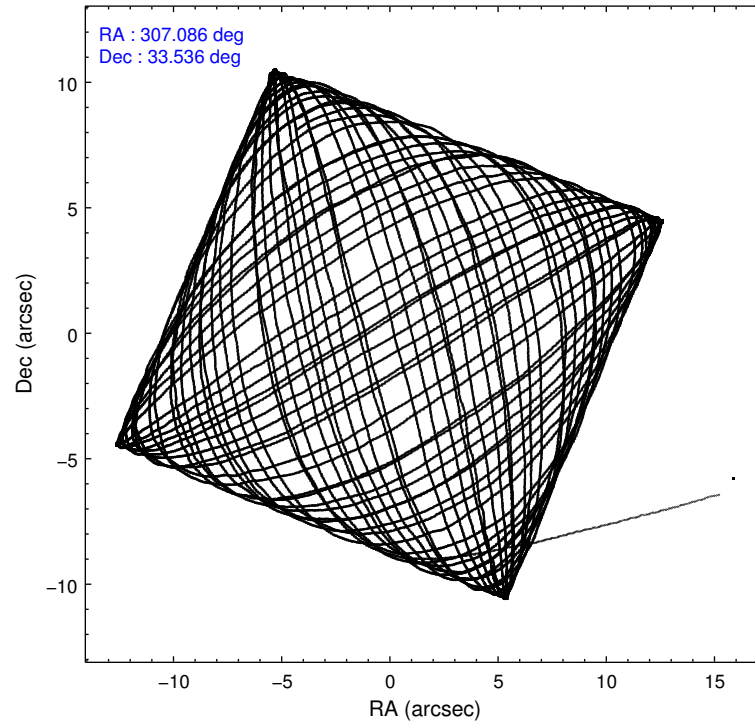
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	233506	141450	184022	185032	157736
rejected events	116159	124879	103749	136946	122258
rejected %	49%	88%	56%	74%	77%

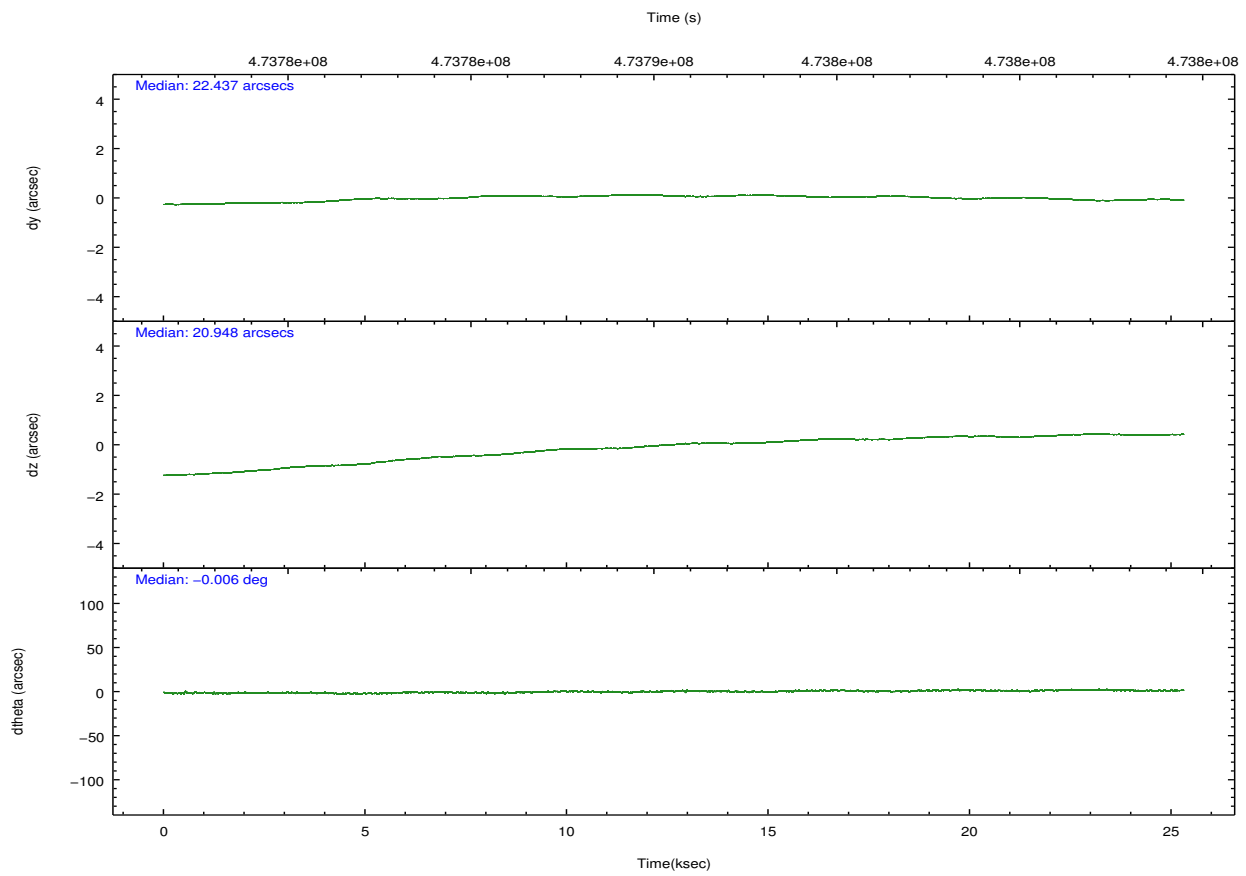
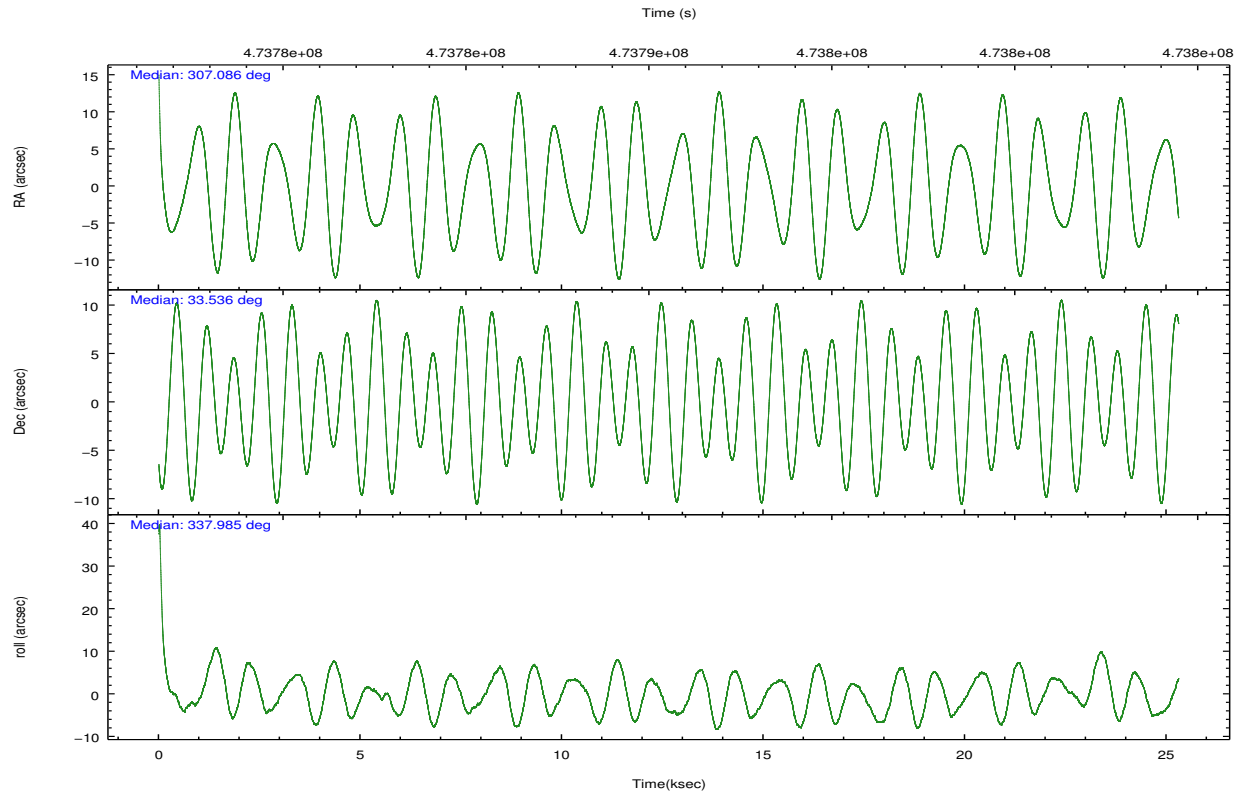
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	14522	5613	7059	14255	15239
	6%	3%	3%	7%	9%
grade 1 events	469	79	199	161	122
	0%	0%	0%	0%	0%
grade 2 events	37093	3792	16505	11453	11631
	15%	2%	8%	6%	7%
grade 3 events	3918	1753	6908	4992	2316
	1%	1%	3%	2%	1%
grade 4 events	3824	1670	6861	4638	2149
	1%	1%	3%	2%	1%
grade 5 events	17239	7099	19096	10582	7750
	7%	5%	10%	5%	4%
grade 6 events	58000	3747	42946	12750	4148
	24%	2%	23%	6%	2%
grade 7 events	98441	117697	84448	126201	114381
	42%	83%	45%	68%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	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	307.053458	307.0858755032573	CCD I2 on	N	N
[deg] Pointing Dec	33.532191	33.53636506585465	CCD I3 on	N	N
[deg] Pointing Roll	337.856175	337.9949175112517	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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	Y	Y
[s] Observation start time (MET)	473778202.184000	473777180.23733	CCD S5 on	O2	Y
Observation start date	2013-01-05T13:02:15	2013-01-05T12:46:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	473803202.184000	473803884.05127	On-chip summing requested	N	N
Observation end date	2013-01-05T19:58:55	2013-01-05T20:11:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





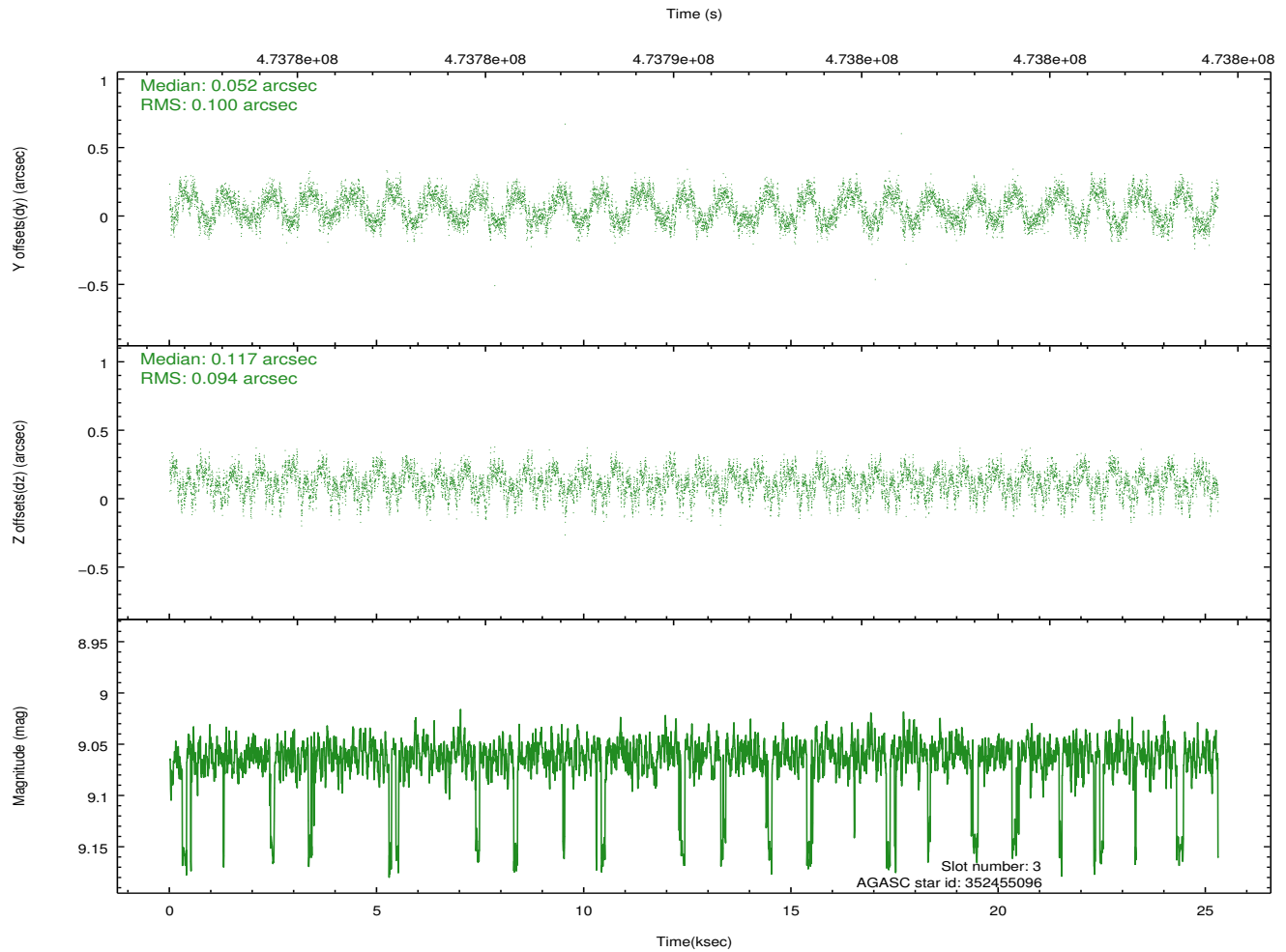
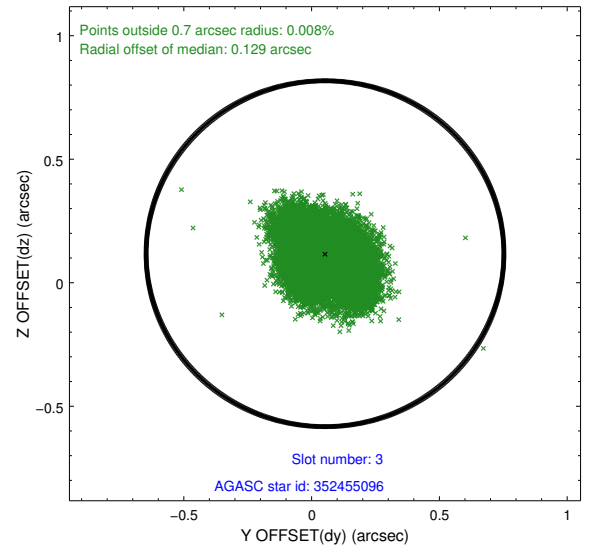
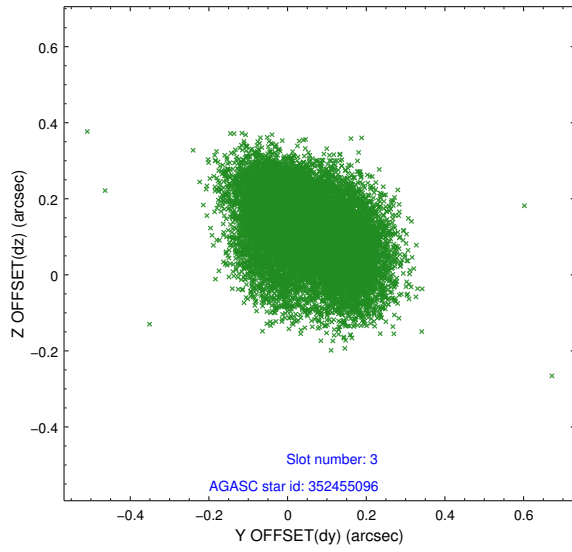
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	6172	0.093	-0.095	0.015	0.054	0.000000	0.000000	920.57	-1737.96
1	FID		ACIS-S-5	7.06	6172	-0.180	0.044	0.011	0.020	0.000000	0.000000	-1828.67	159.56
2	FID		ACIS-S-6	7.16	6172	0.067	0.059	0.014	0.045	0.000000	0.000000	385.93	803.70
3	GUIDE	used	352455096	9.06	12267	0.052	0.117	0.150	0.227	307.531879	33.327351	1610.37	-137.18
4	GUIDE	used	352456008	9.20	12289	0.063	-0.170	0.220	0.314	307.303665	33.508737	727.64	205.76
5	GUIDE	used	352462224	8.92	12242	-0.089	0.192	0.102	0.163	307.179924	32.781608	1373.71	-2357.81
6	GUIDE	used	352989544	8.88	12276	0.127	-0.118	0.077	0.127	307.981922	33.910018	2052.18	2316.97
7	GUIDE	used	352990848	6.56	12341	-0.170	-0.022	0.111	0.173	306.782397	34.329074	-1828.32	2354.41

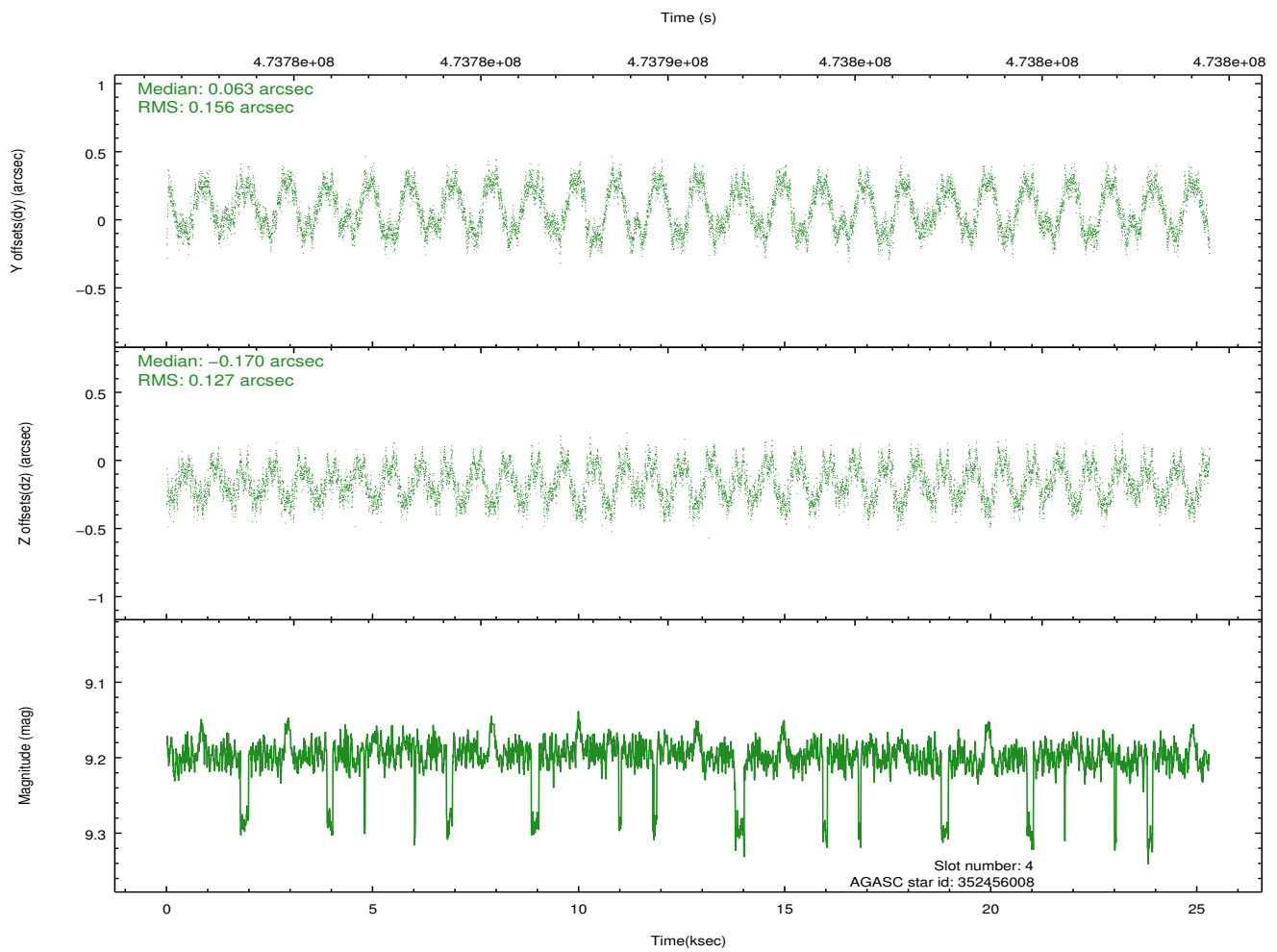
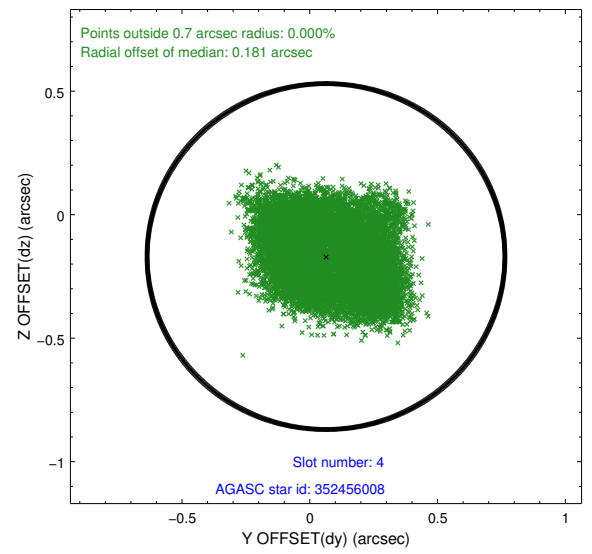
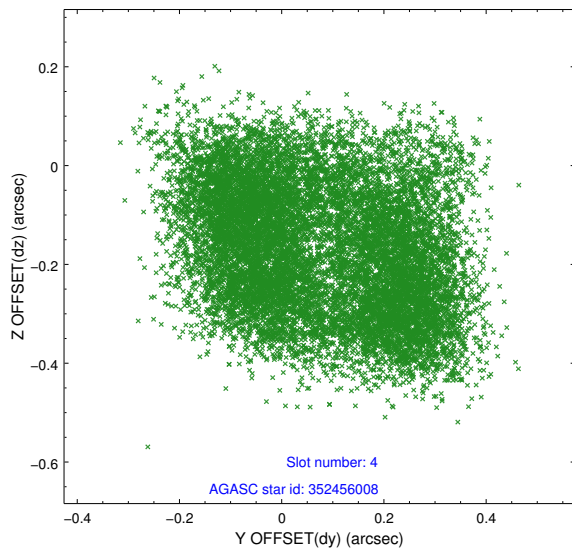
∞

2.4 Star Slots

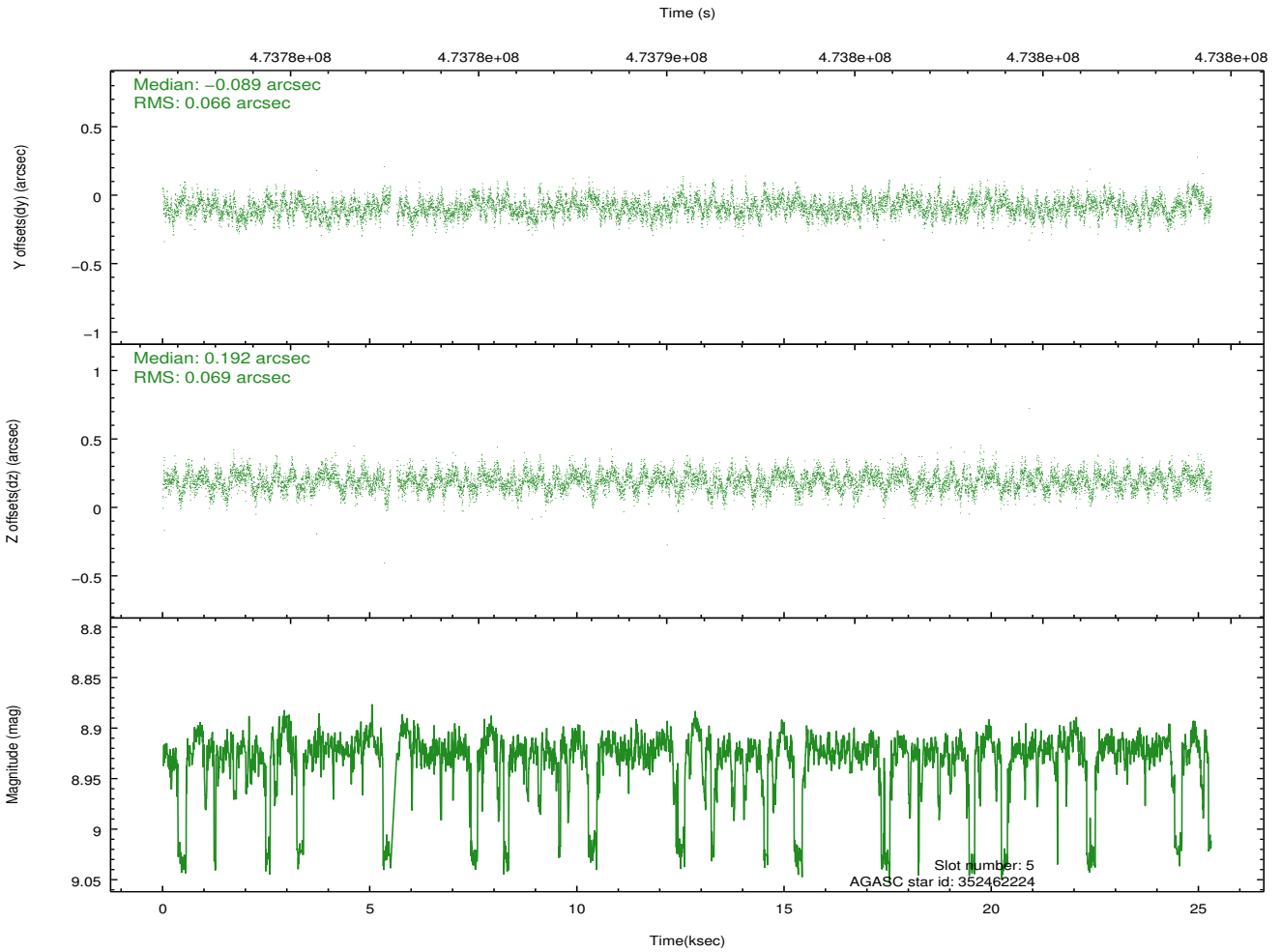
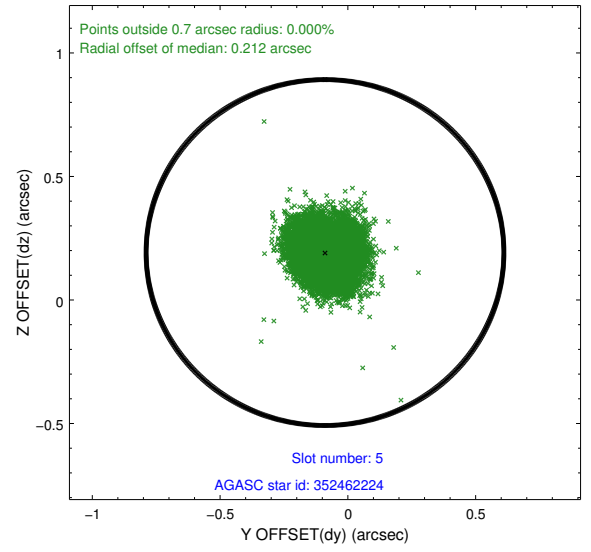
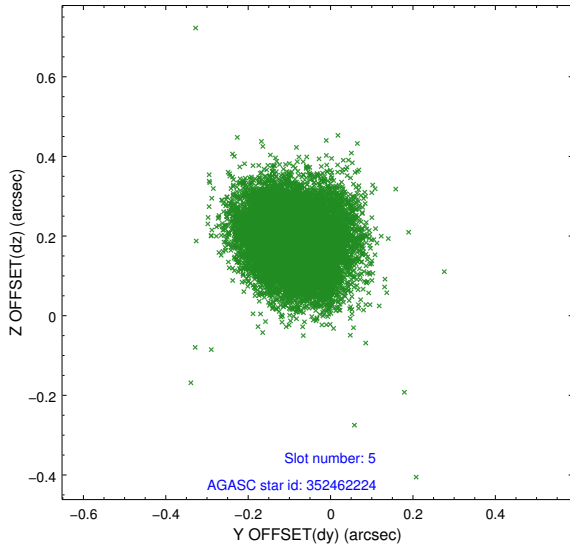
2.4.1 Slot 3



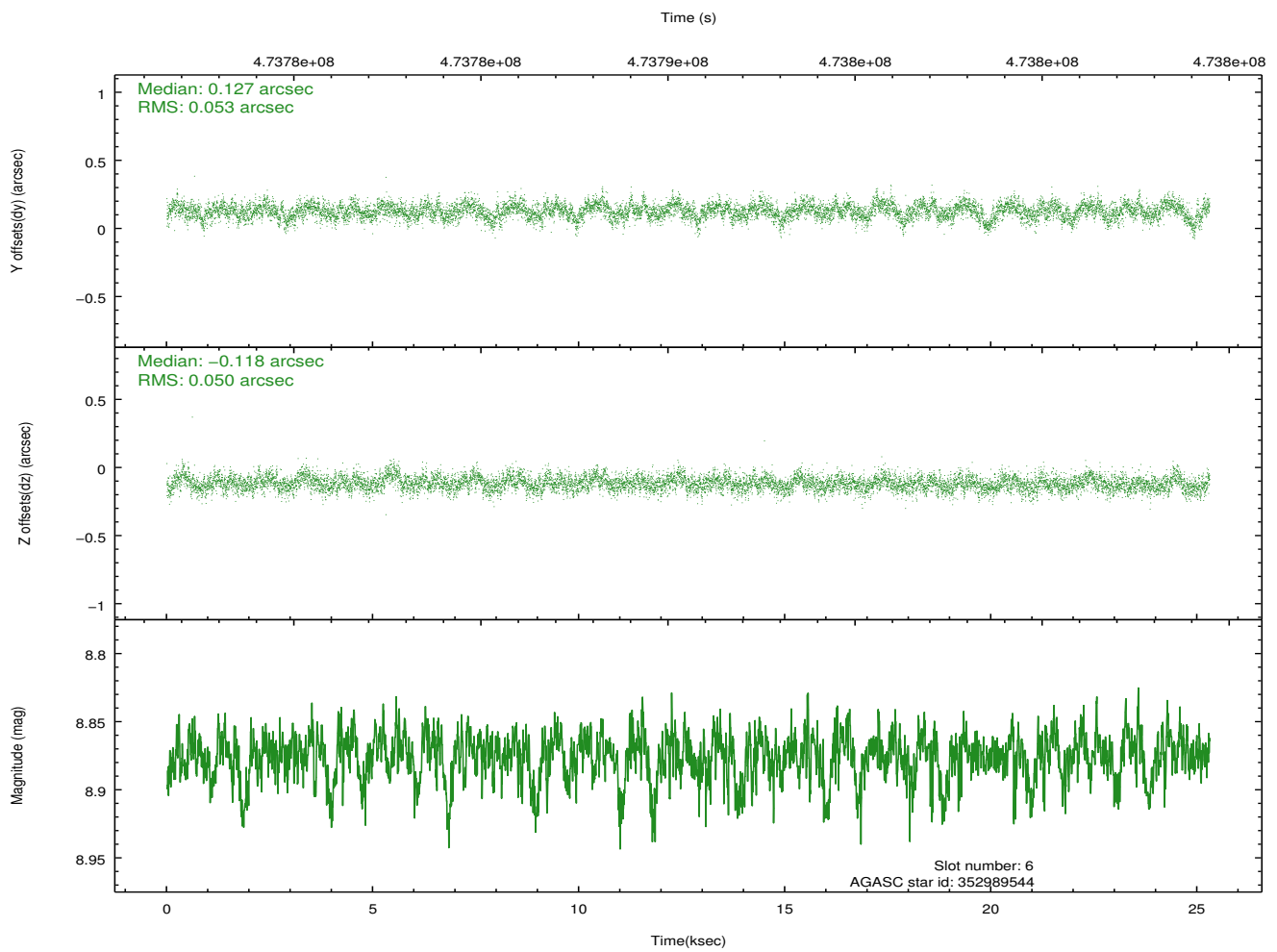
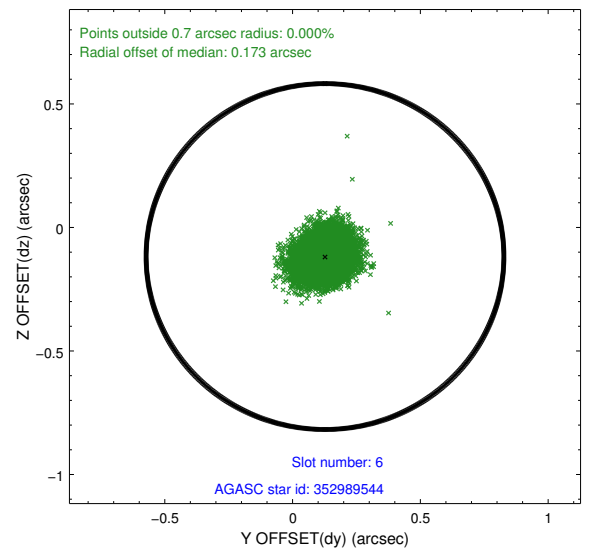
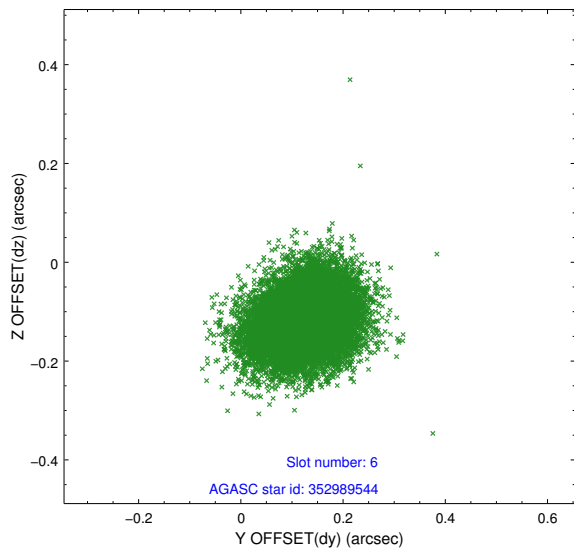
2.4.2 Slot 4



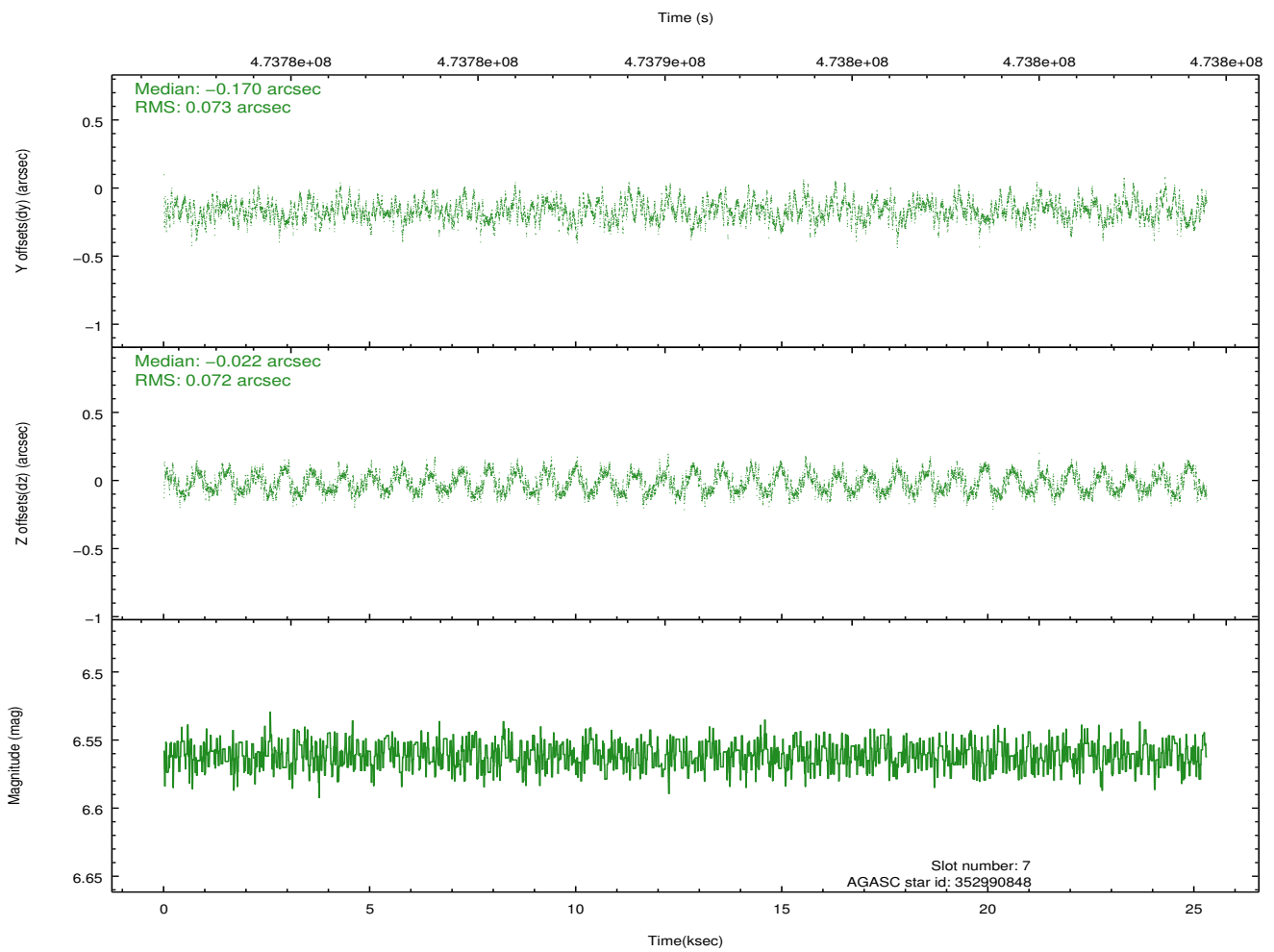
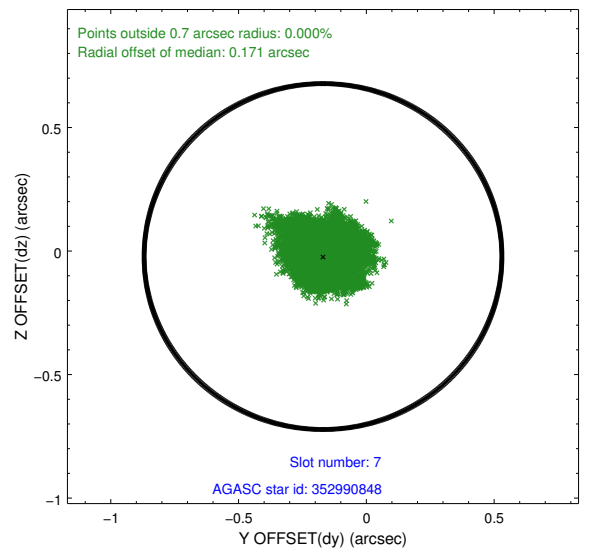
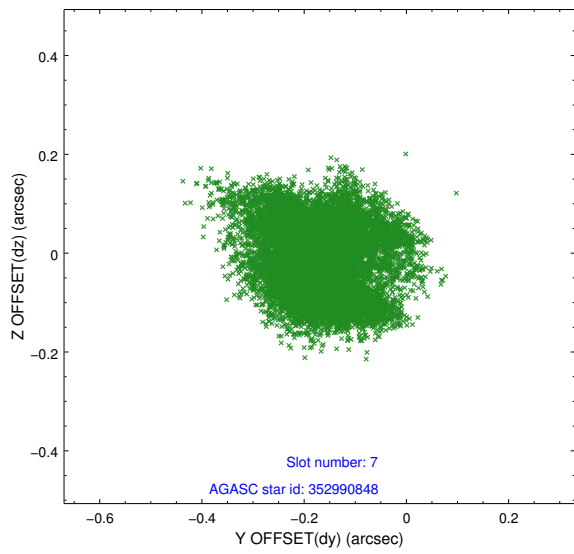
2.4.3 Slot 5



2.4.4 Slot 6

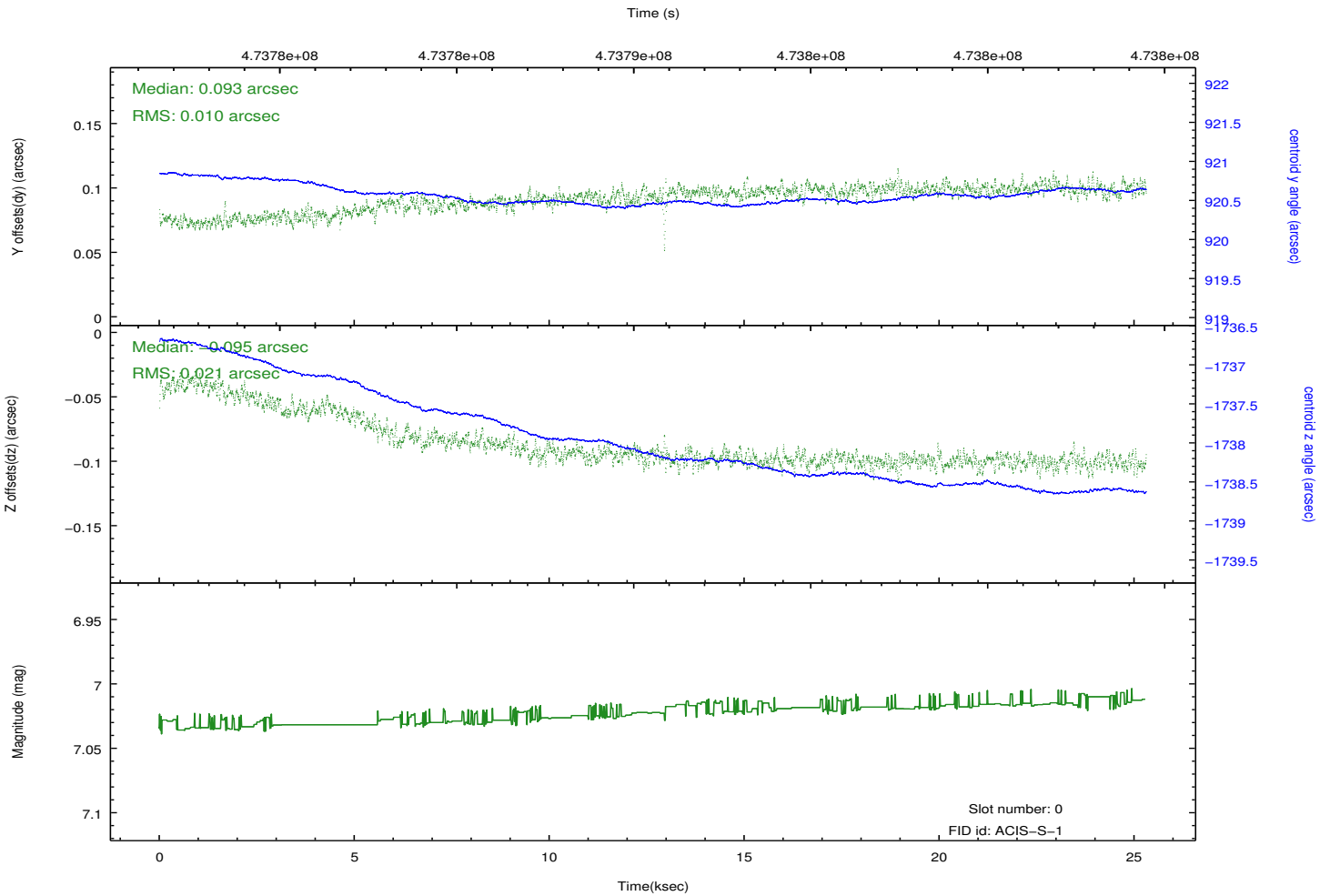
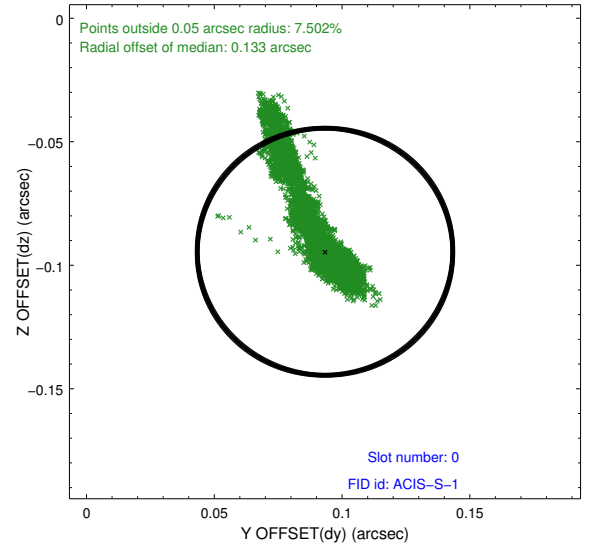
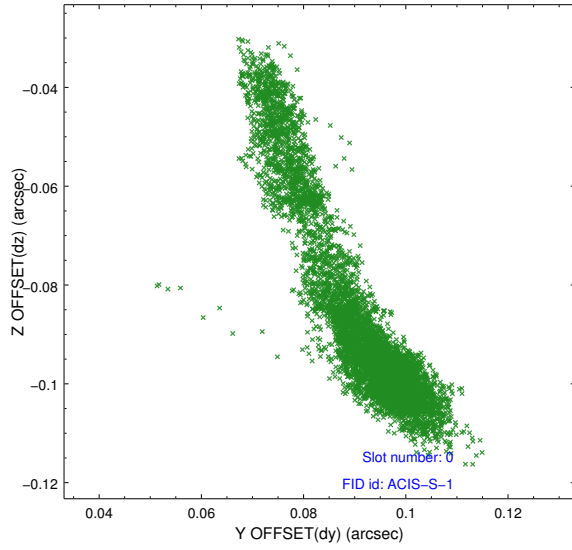


2.4.5 Slot 7

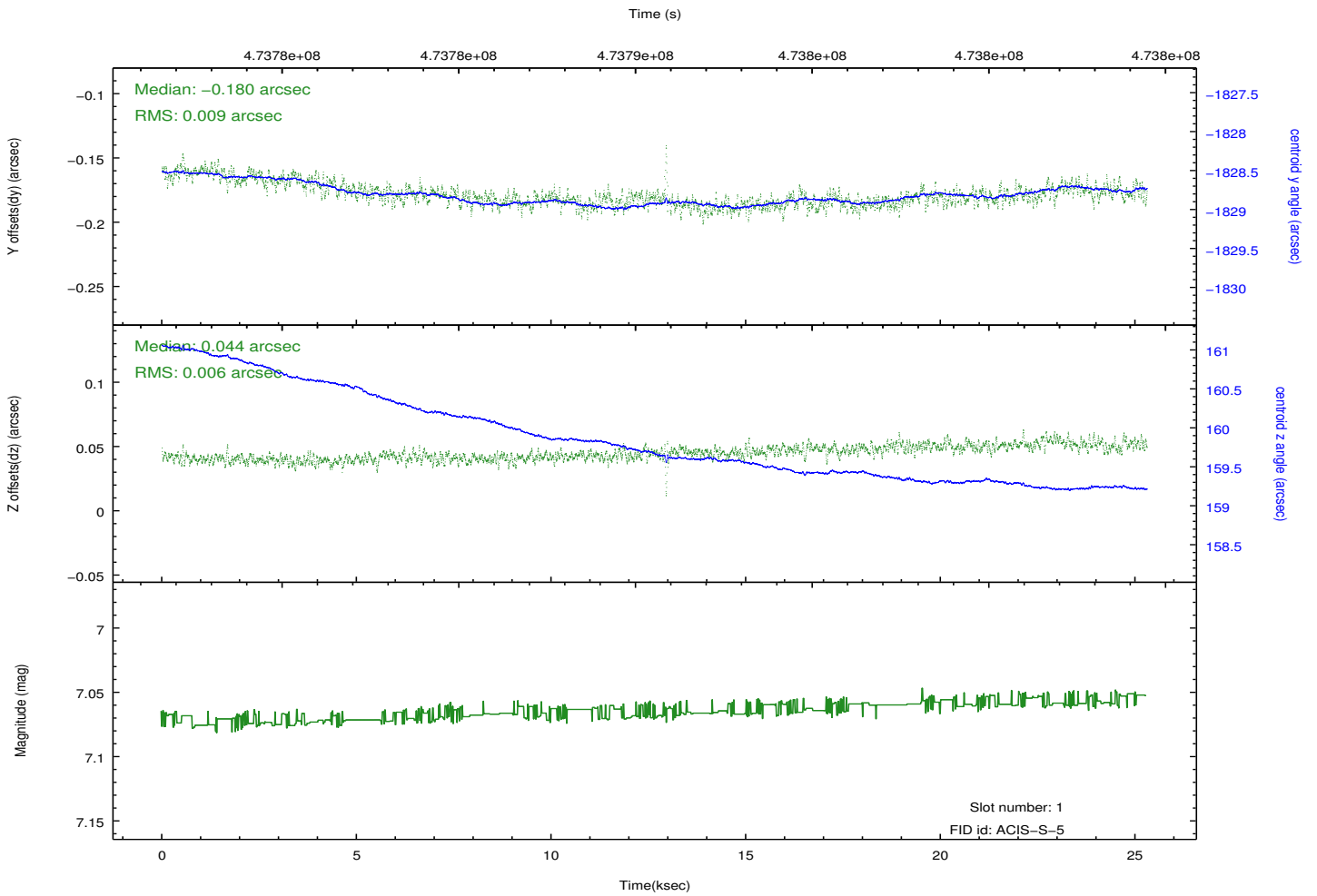
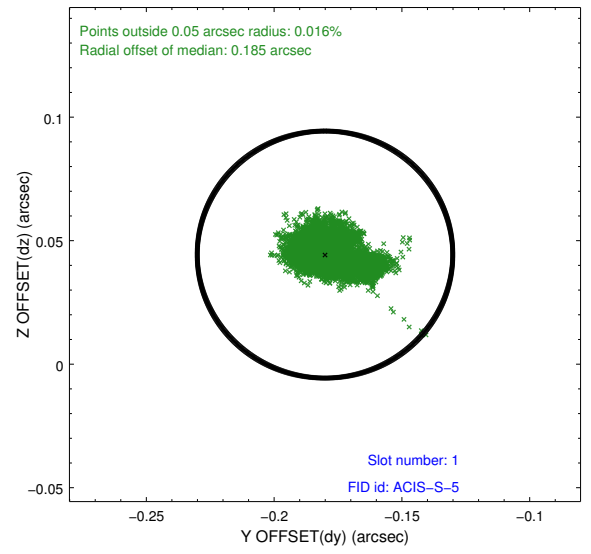
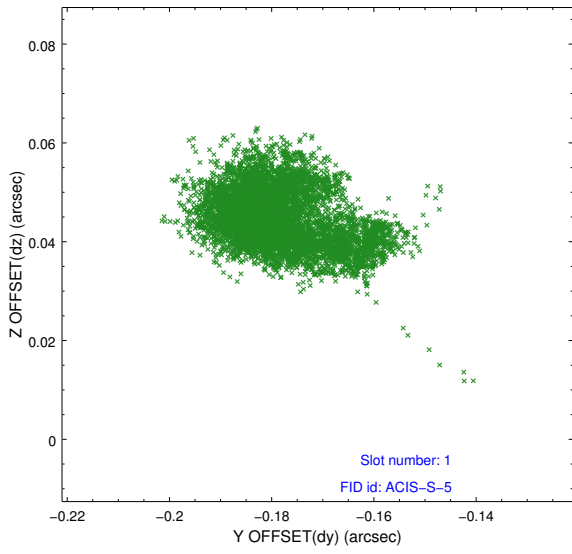


2.5 FID Slots

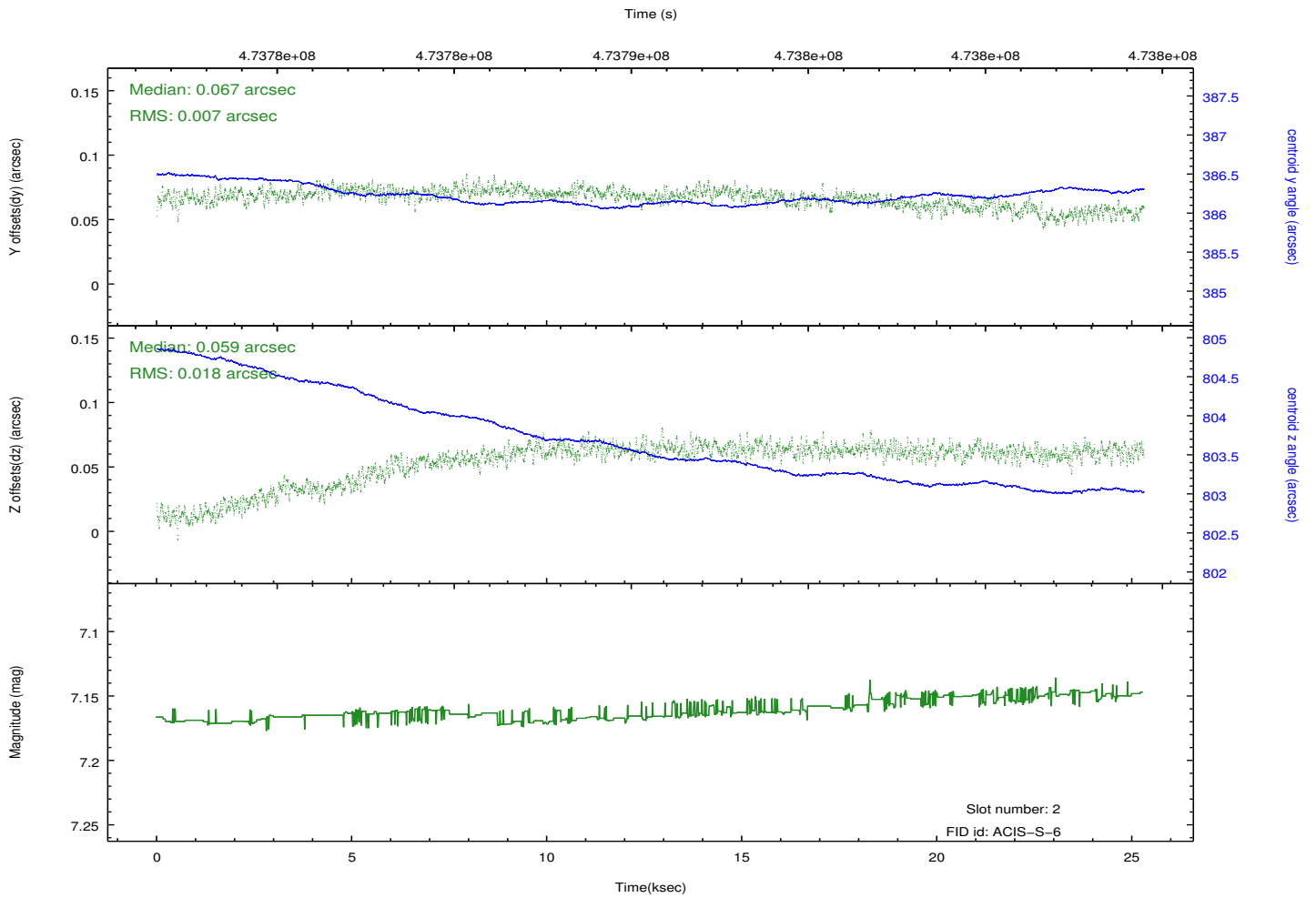
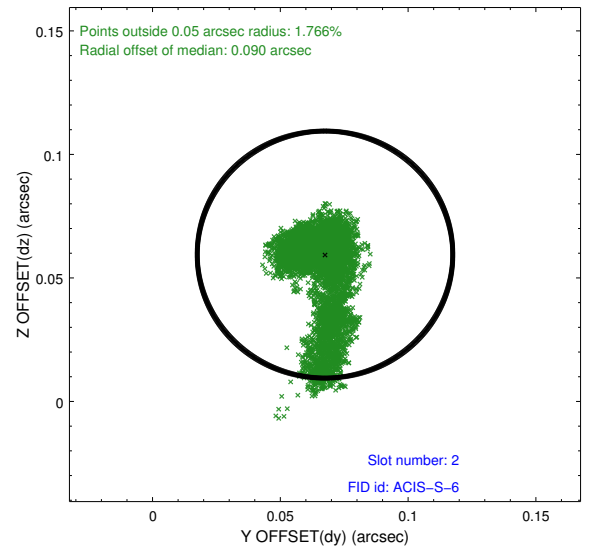
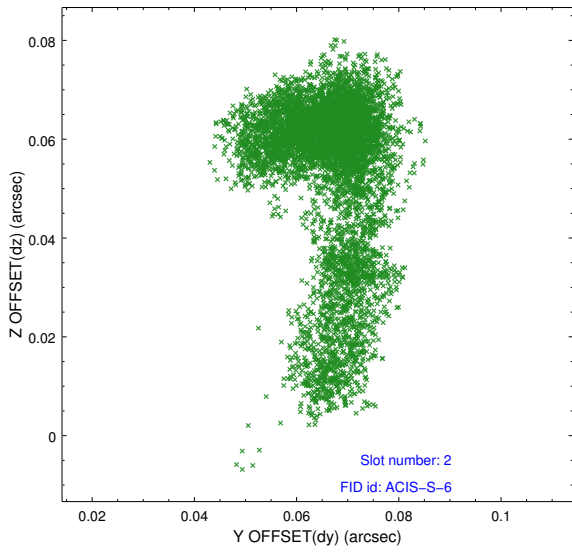
2.5.1 Slot 0



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)	2014.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.063500192761

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.