

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17693 - L2 Version 1
Chandra X-Ray Center

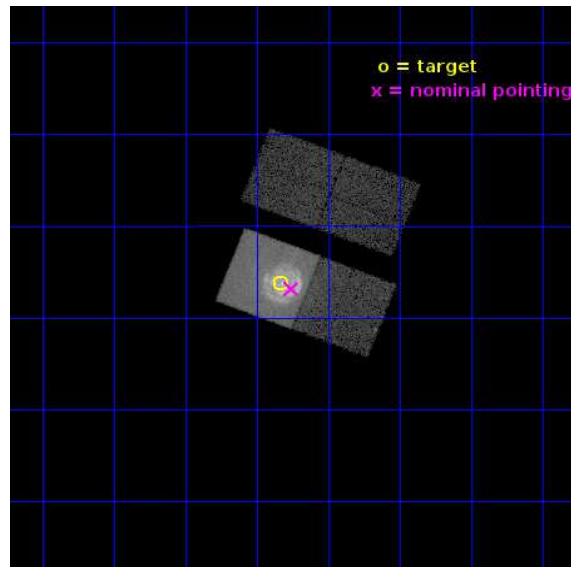
L2 Processing Date : Jul 10 2015

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1 Front

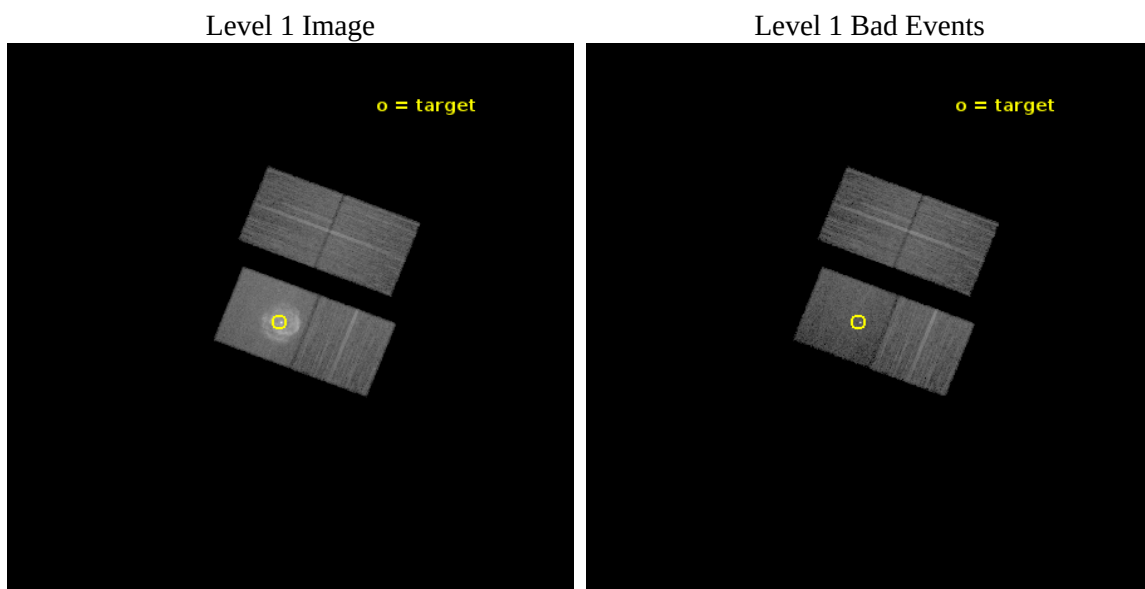
seq_num	502466	Sequence number
obs_id	17693	Observation id
title	Expansion of Kes 73, a shell supernova remnant containing a magnetar	
observer	Dr. Kazimierz Borkowski	Principal investigator
object	Kes 73	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.333333	Observer's specified target RA [deg]
dec_targ	-4.936389	Observer's specified target Dec [deg]
ra_nom	280.3150311056	Nominal RA [deg]
dec_nom	-4.9470738826089	Nominal Dec [deg]
roll_nom	201.15503999107	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23076.296646357	Sum of GTIs [s]
livetime	22774.787842149	Livetime [s]
ontime2	23076.173526406	Sum of GTIs [s]
ontime3	23073.073546171	Sum of GTIs [s]
ontime6	23076.255606413	Sum of GTIs [s]
ontime7	23076.296646357	Sum of GTIs [s]
l2events	199090	Number of level 2 events



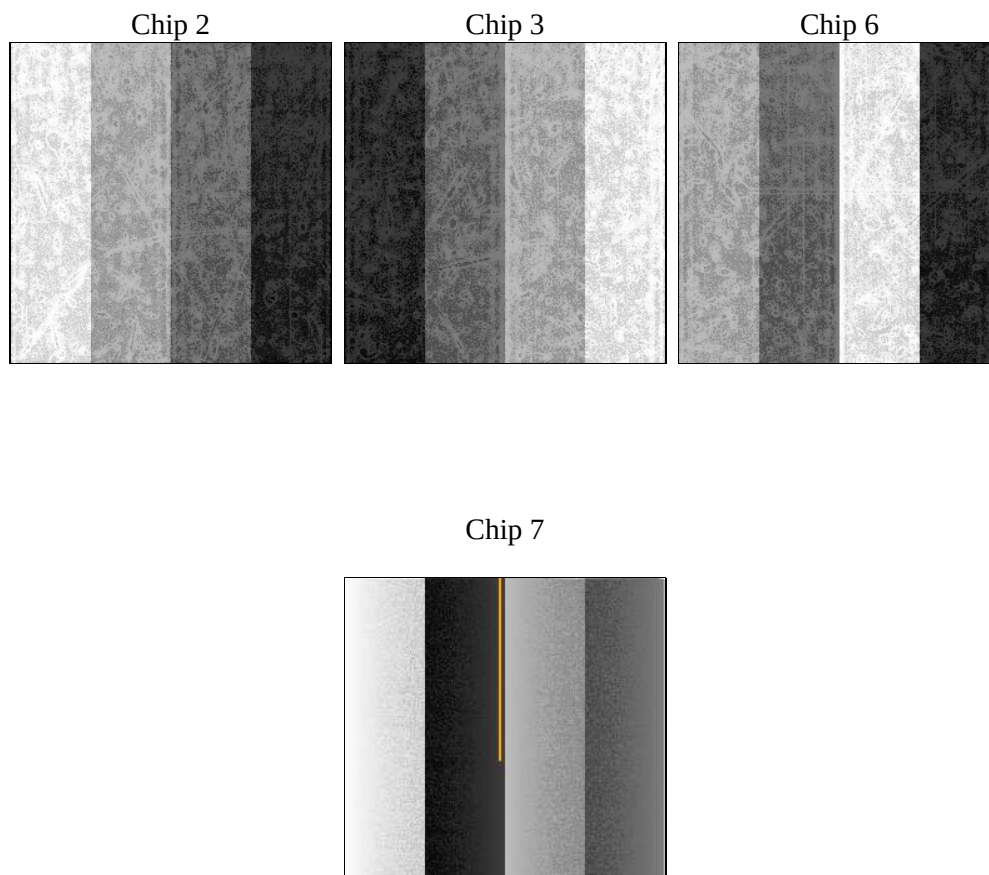
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	23076.296646357	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	23076.173526406	Sum of GTIs [s]
date	2015-07-10T22:45:38	Date and time of file creation	ontime3	23073.073546171	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	23076.255606413	Sum of GTIs [s]
			ontime7	23076.296646357	Sum of GTIs [s]
			l1events	570653	Number of level 1 events

2.1.4 Events

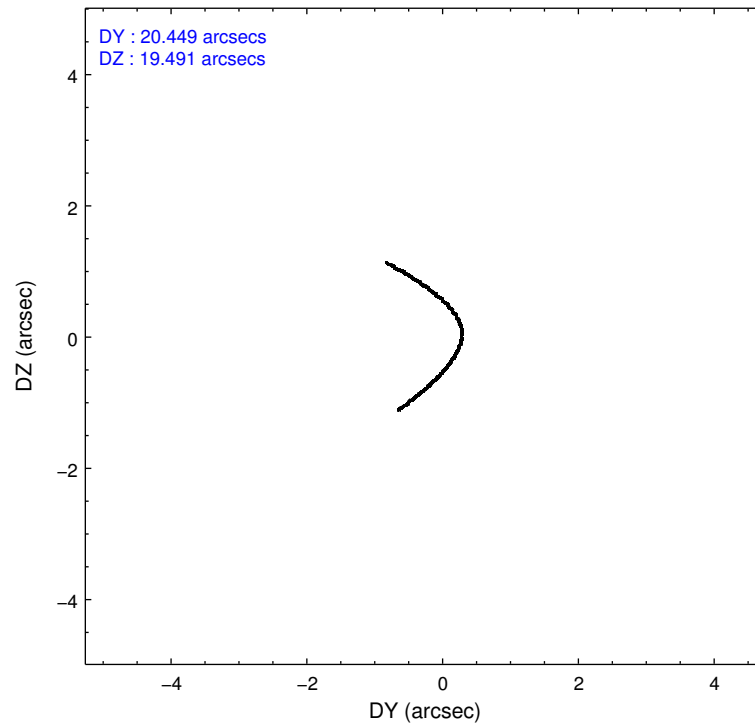
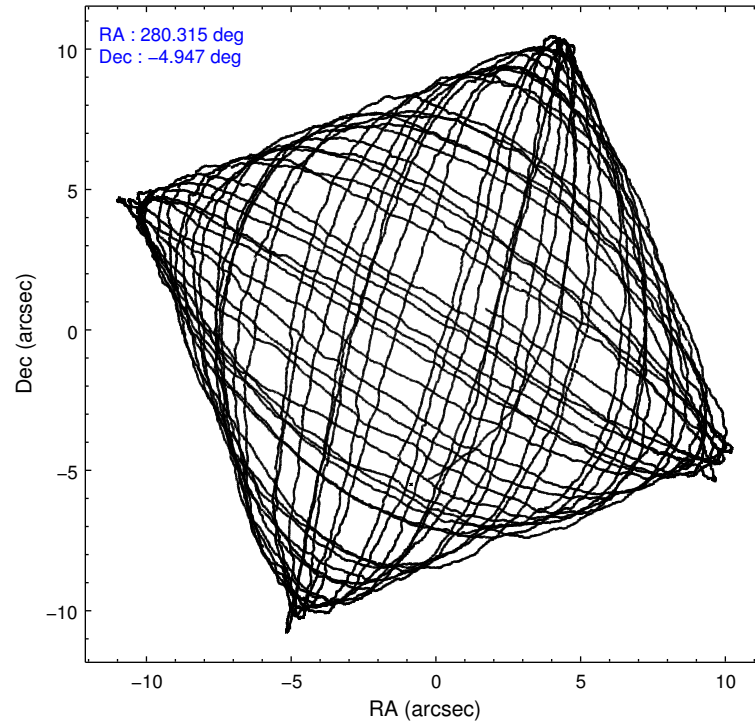
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	112143	105593	115858	237059
rejected events	98406	92432	98170	74444
rejected %	87%	87%	84%	31%

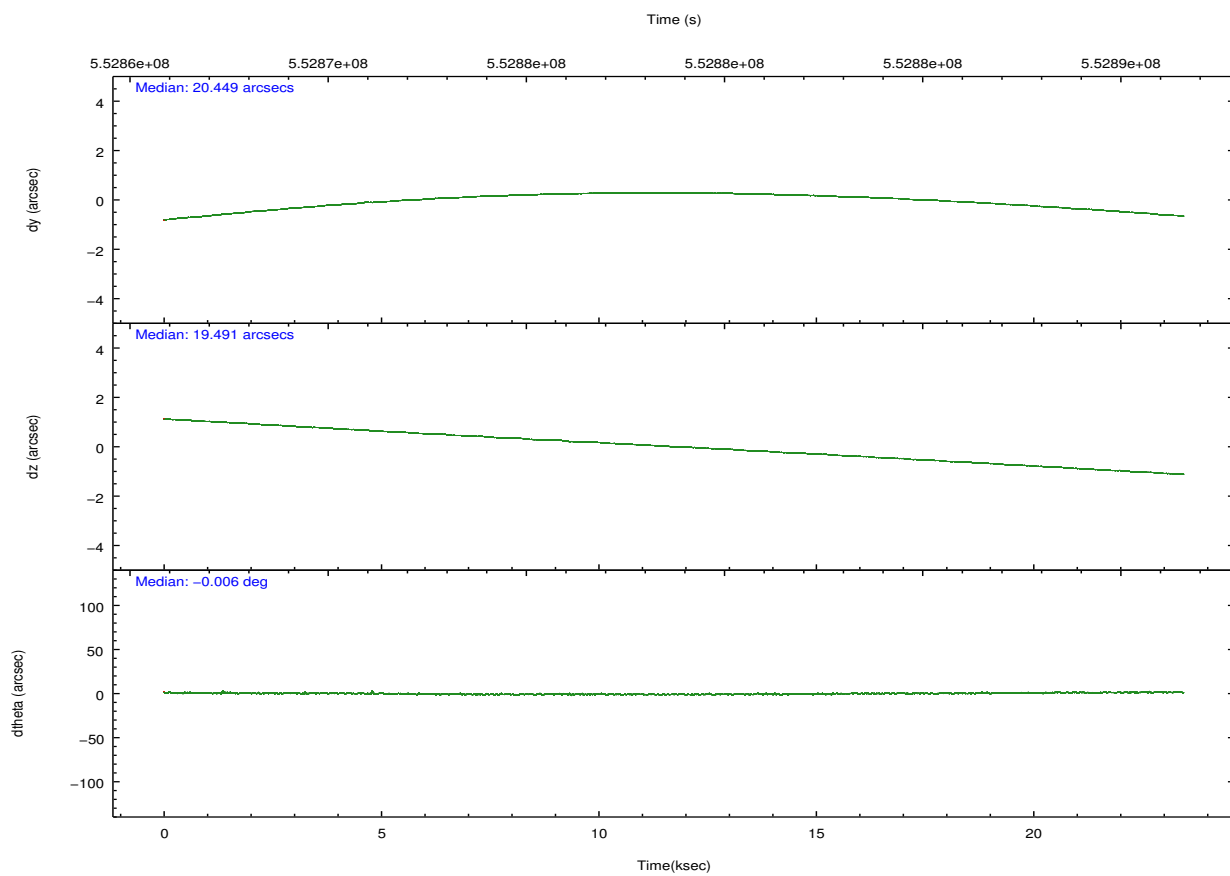
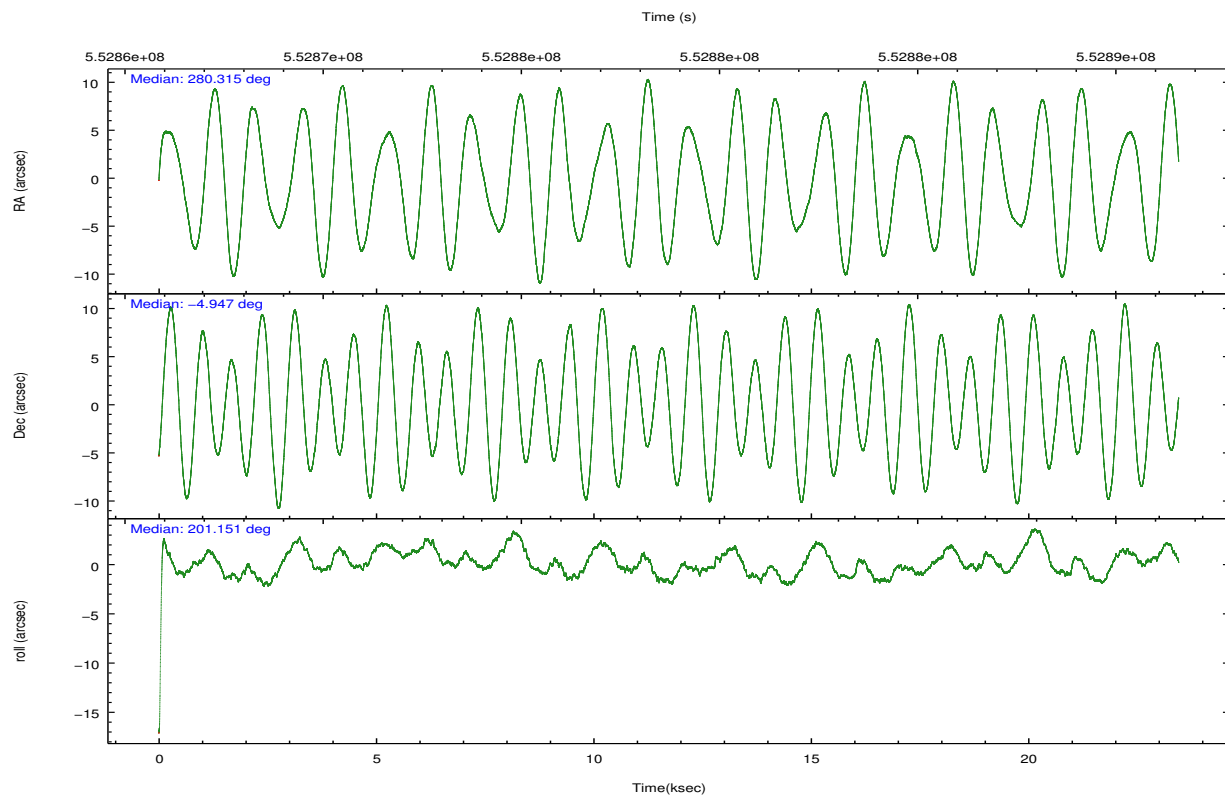
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5641	5341	8278	29076
	5%	5%	7%	12%
grade 1 events	57	81	73	370
	0%	0%	0%	0%
grade 2 events	3289	2818	3554	40365
	2%	2%	3%	17%
grade 3 events	1212	1242	1463	17120
	1%	1%	1%	7%
grade 4 events	1280	1316	1506	16692
	1%	1%	1%	7%
grade 5 events	3852	5061	4980	15339
	3%	4%	4%	6%
grade 6 events	2315	2444	2889	59392
	2%	2%	2%	25%
grade 7 events	94497	87290	93115	58705
	84%	82%	80%	24%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	280.331995	280.3150311055962	CCD I2 on	O1	Y
[deg] Pointing Dec	-4.925473	-4.947073882608941	CCD I3 on	O2	Y
[deg] Pointing Roll	200.999877	201.1550399910675	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	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	N	N
[s] Observation start time (MET)	552867457.184000	552866445.971	CCD S5 on	N	N
Observation start date	2015-07-09T22:16:29	2015-07-09T22:00:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	552890457.184000	552891514.90991	On-chip summing requested	N	N
Observation end date	2015-07-10T04:39:49	2015-07-10T04:58:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



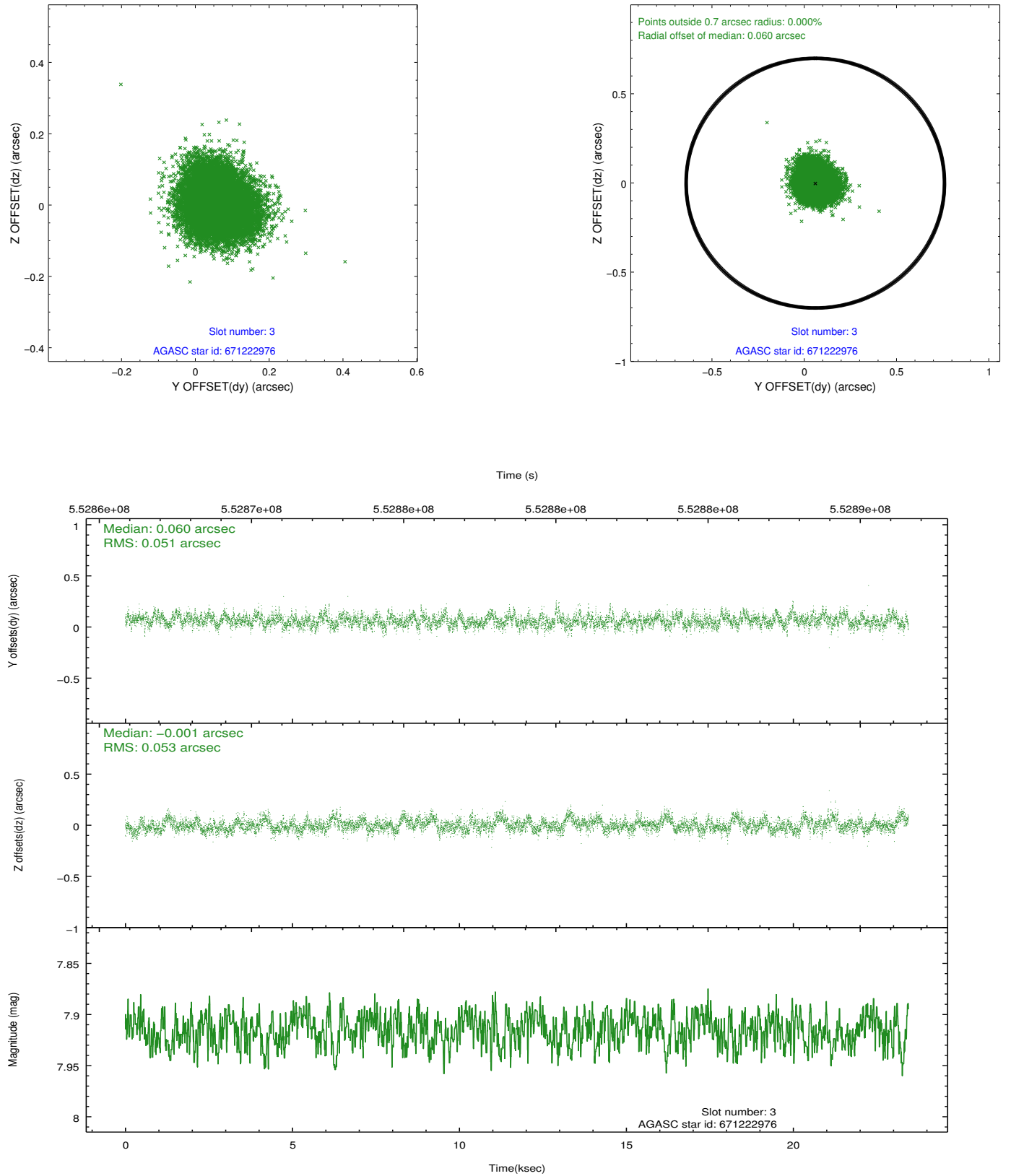


Slot Statistics

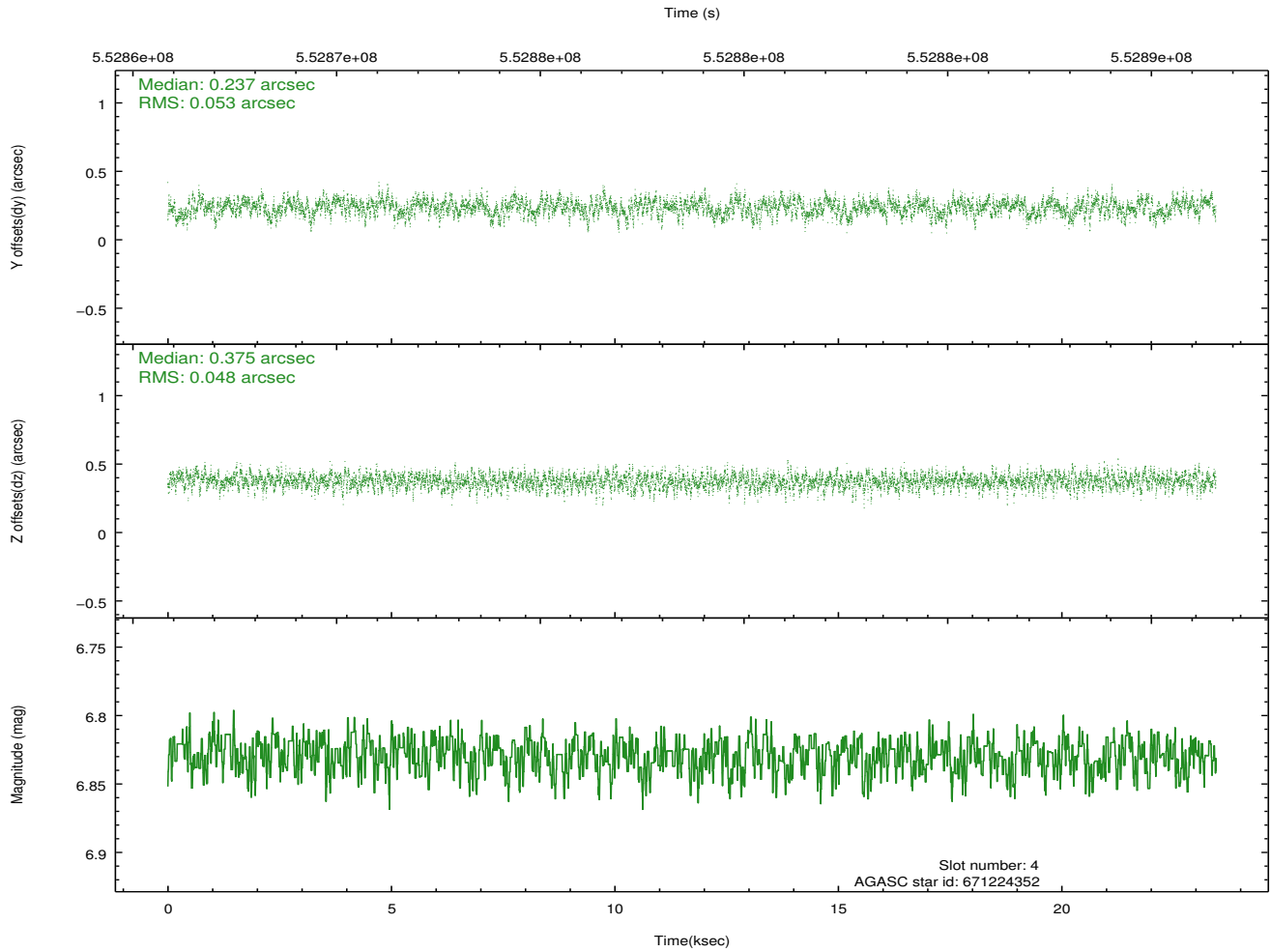
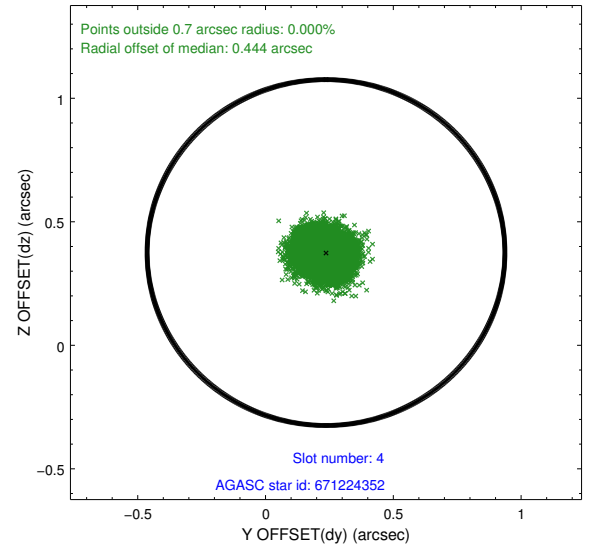
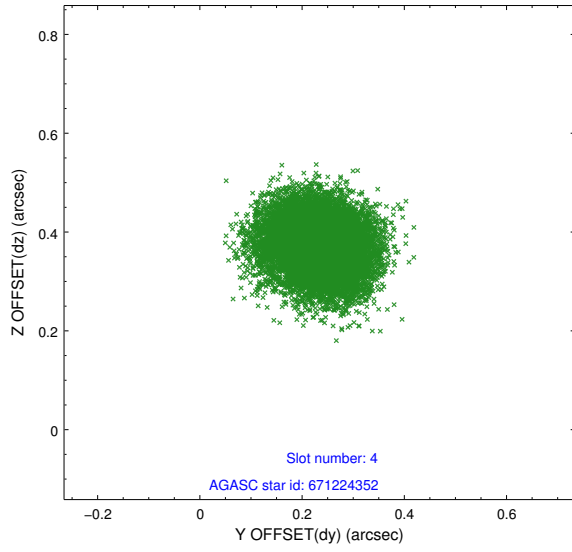
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	5721	0.094	-0.033	0.023	0.030	0.000000	0.000000	922.66	-1736.59
1	FID		ACIS-S-5	7.09	5721	-0.213	0.052	0.015	0.025	0.000000	0.000000	-1826.59	160.87
2	FID		ACIS-S-6	7.20	5719	0.099	-0.007	0.033	0.043	0.000000	0.000000	388.04	804.95
3	GUIDE	used	671222976	7.91	11441	0.060	-0.001	0.078	0.126	281.033634	-5.005625	-2245.03	1172.36
4	GUIDE	used	671224352	6.83	11440	0.237	0.375	0.076	0.123	280.197595	-4.496426	-102.75	-1614.21
5	GUIDE	used	671224408	8.92	11438	0.182	0.398	0.102	0.163	280.545473	-4.404085	-1386.87	-1477.13
6	GUIDE	used	671761568	8.39	11438	-0.242	-0.380	0.101	0.159	280.250283	-5.657644	1217.67	2355.58
7	GUIDE	used	671763744	7.51	11434	-0.235	-0.389	0.117	0.178	280.132895	-5.707615	1674.99	2373.31

2.4 Star Slots

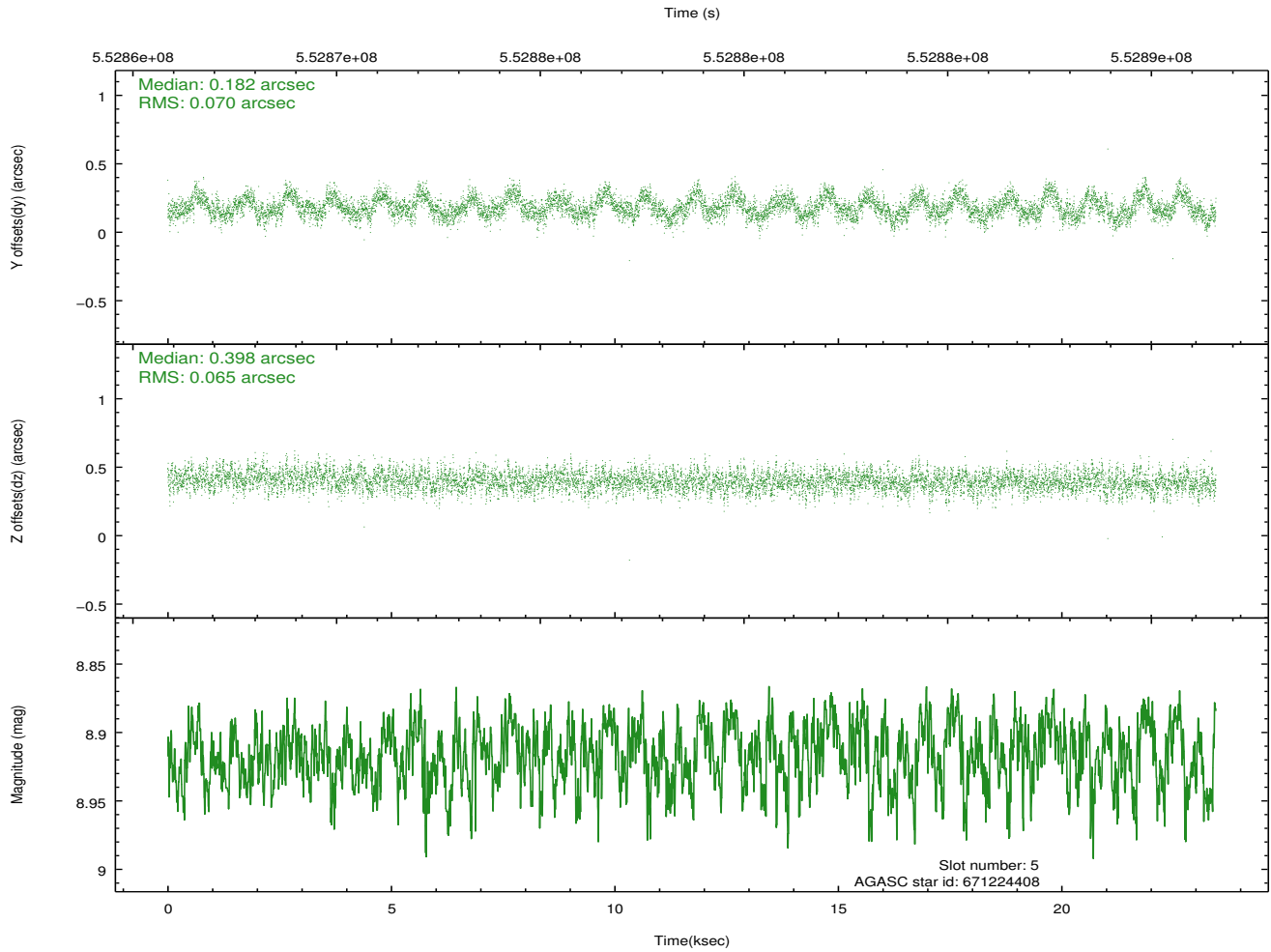
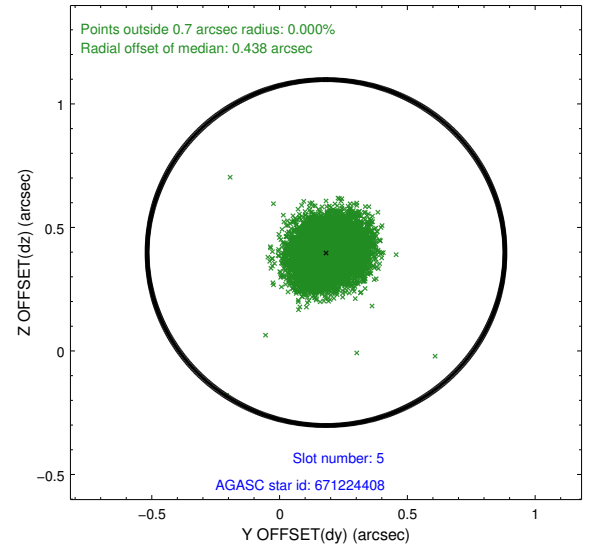
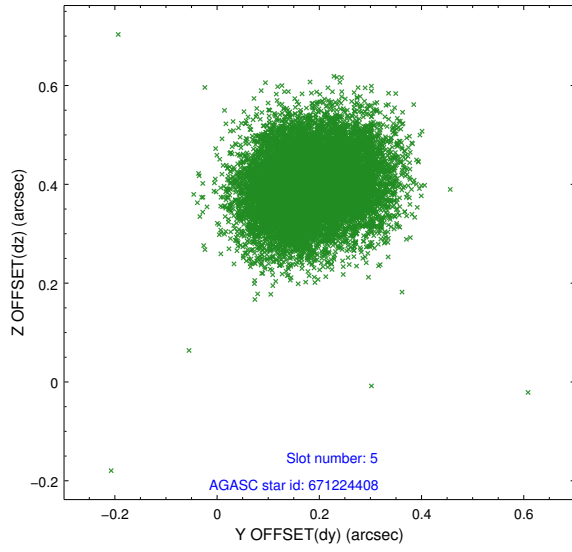
2.4.1 Slot 3



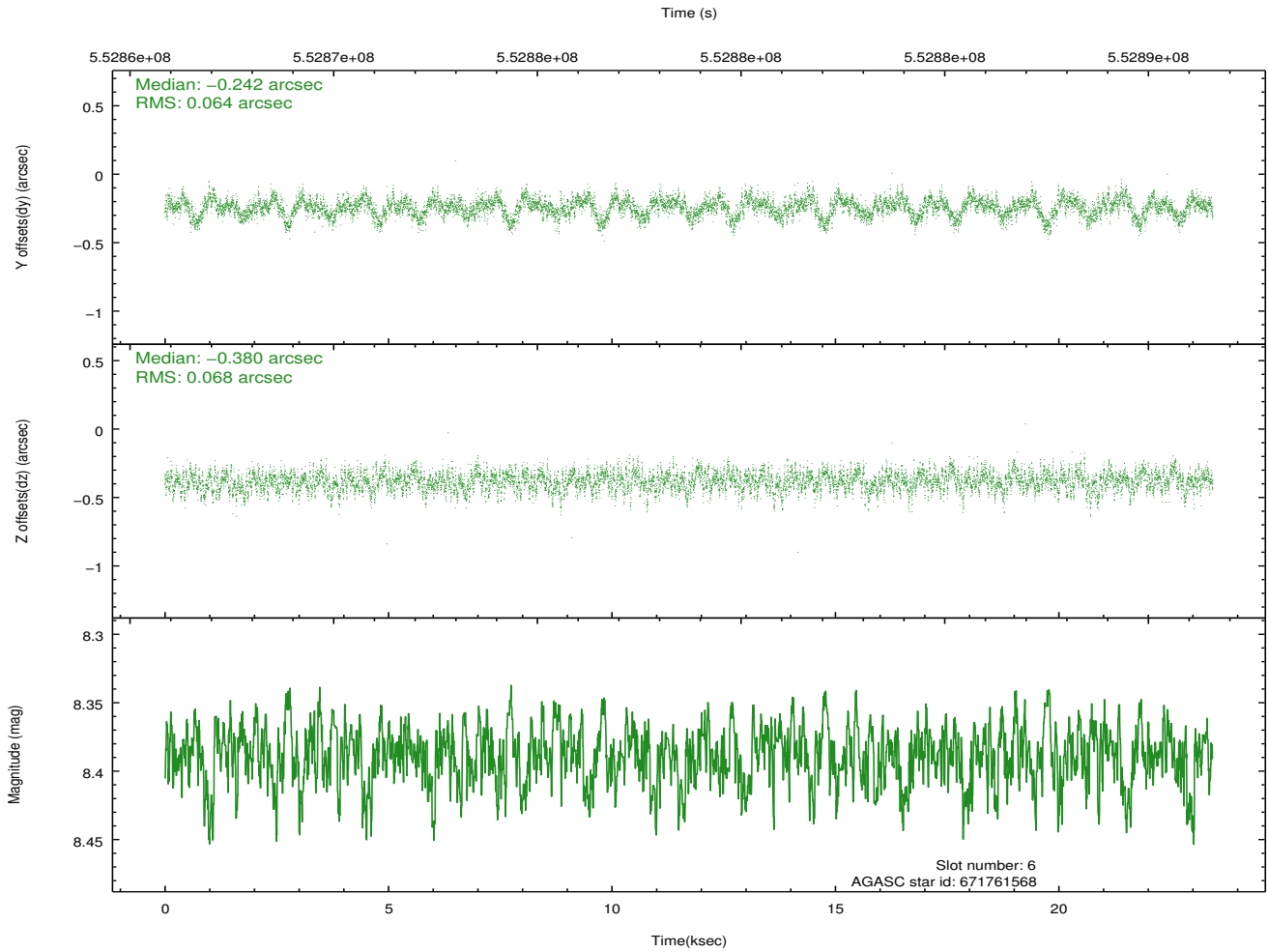
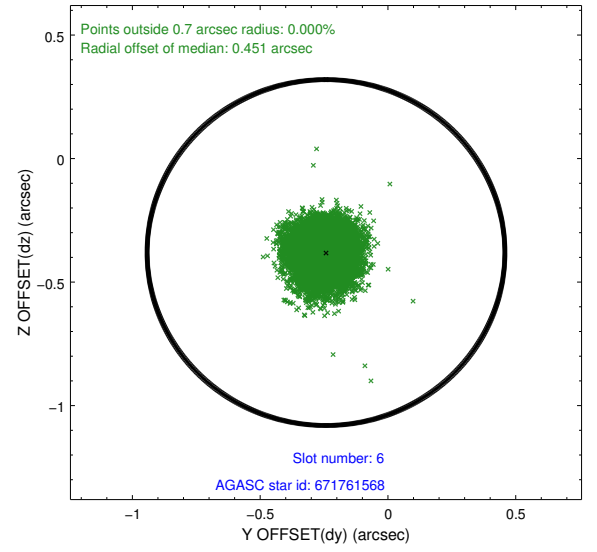
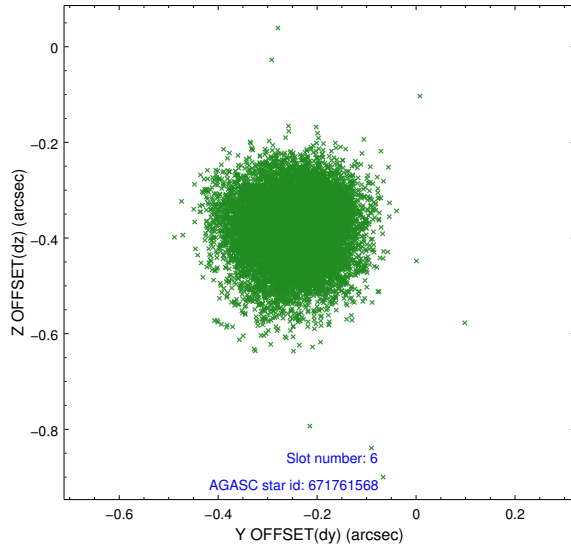
2.4.2 Slot 4



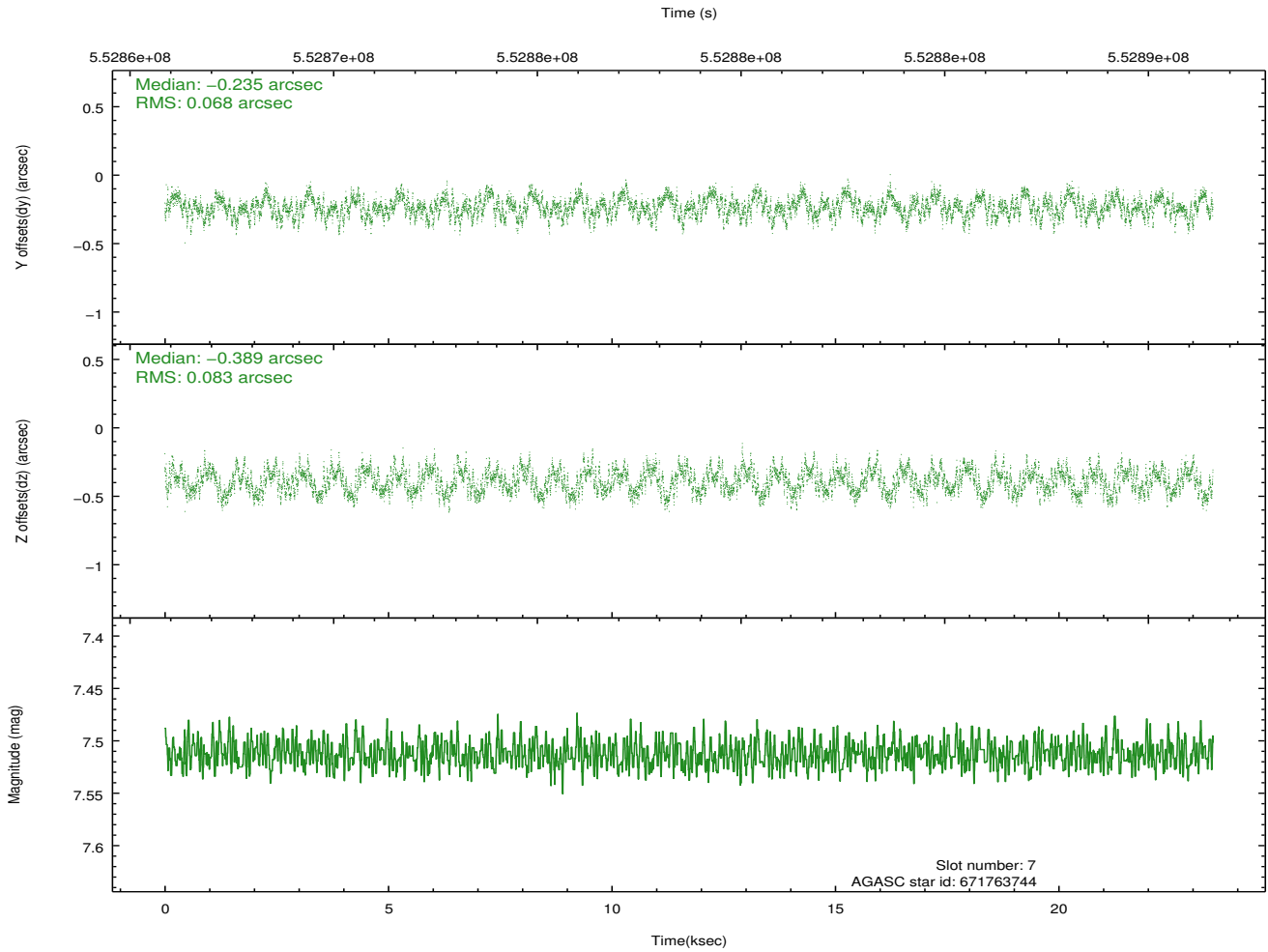
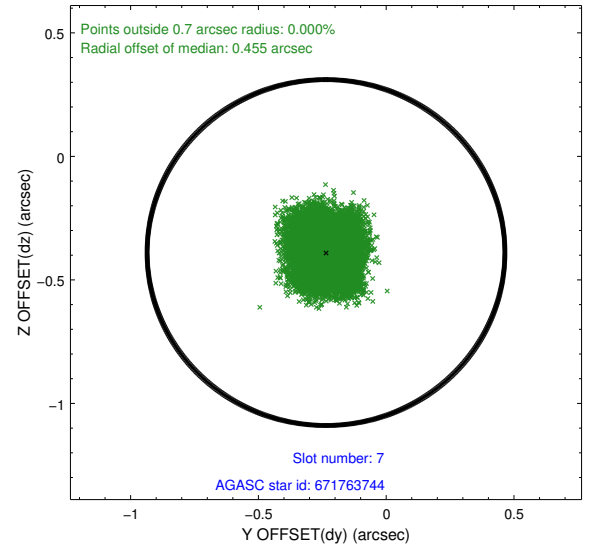
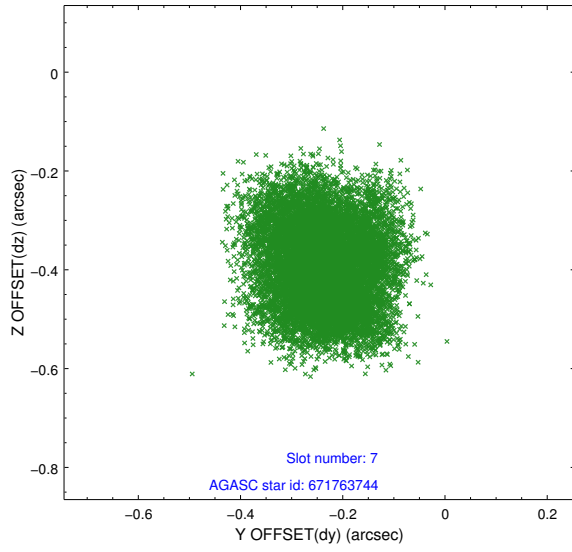
2.4.3 Slot 5



2.4.4 Slot 6

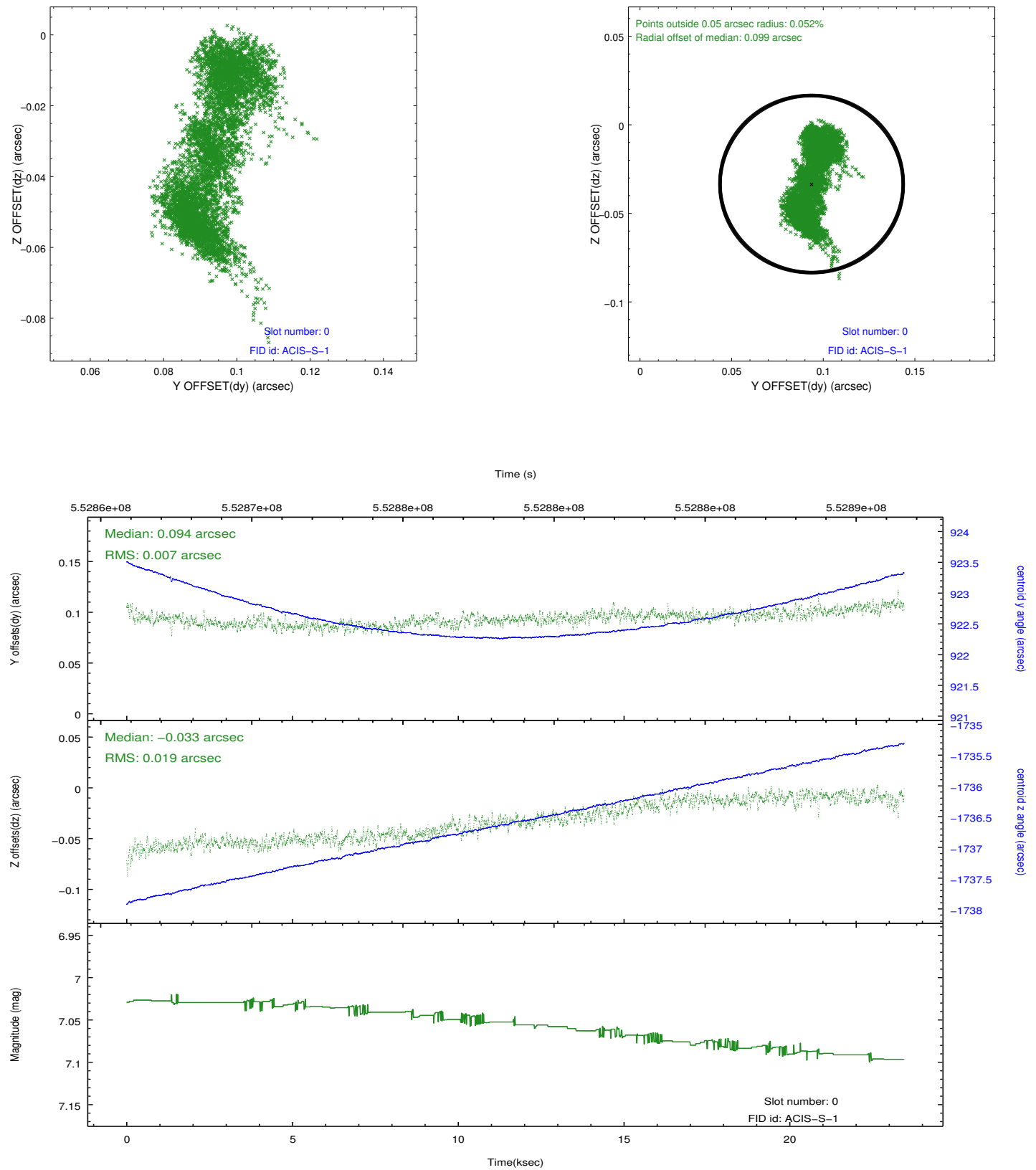


2.4.5 Slot 7

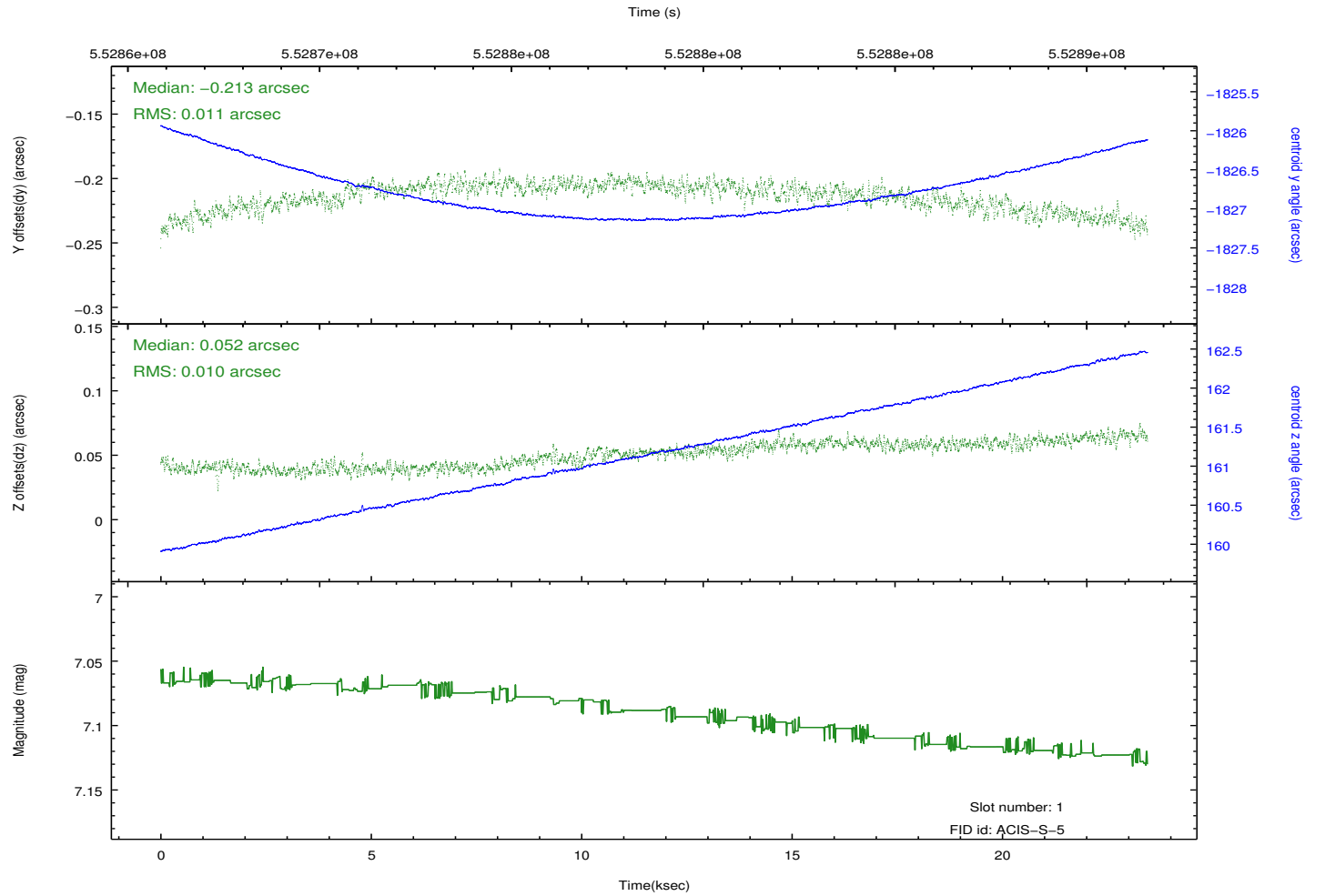
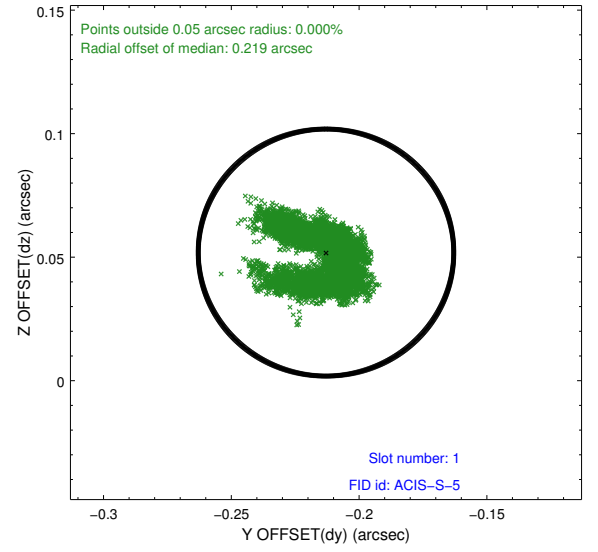
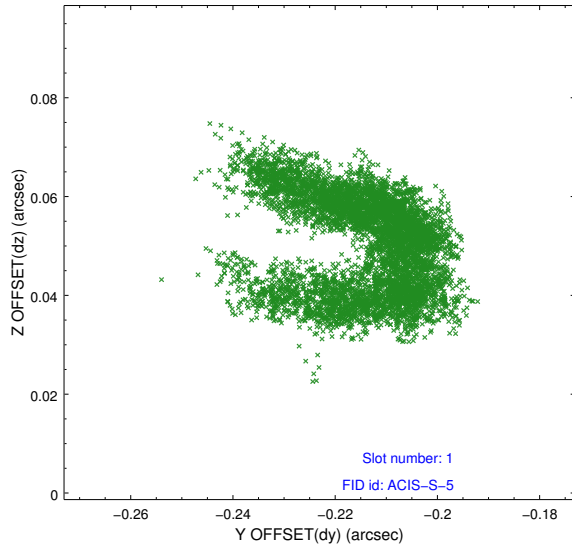


2.5 FID Slots

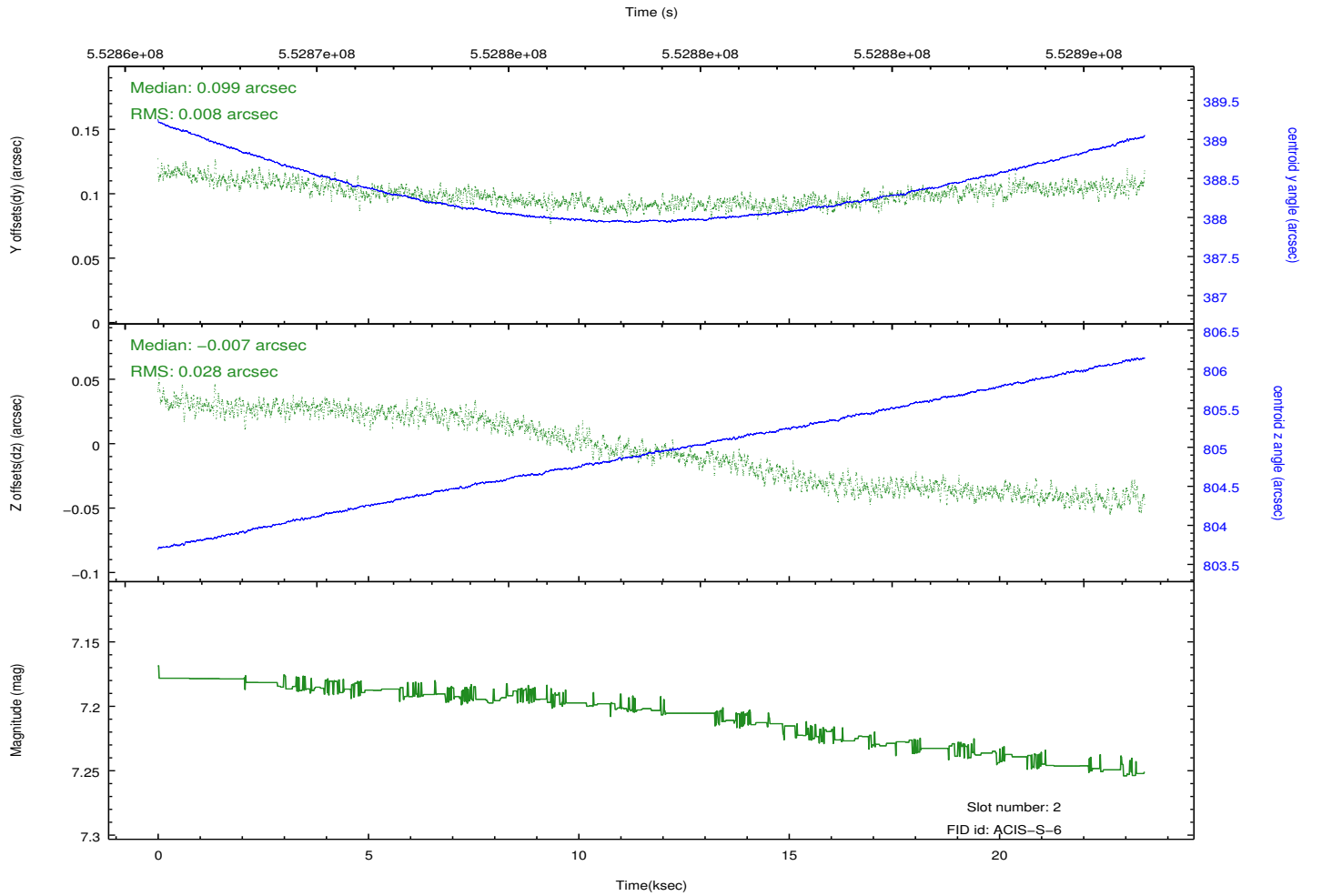
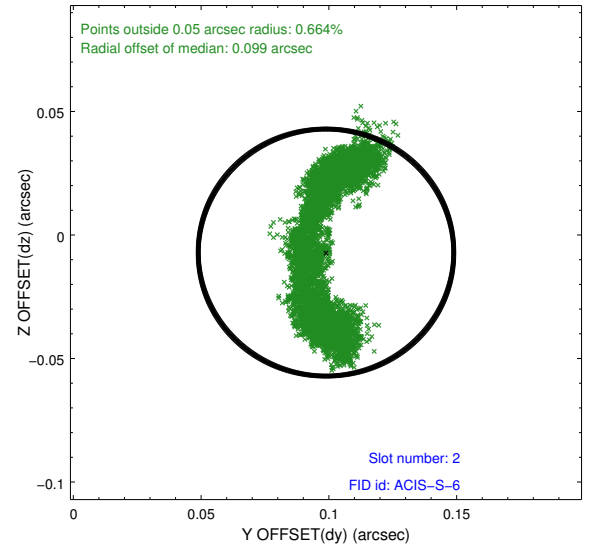
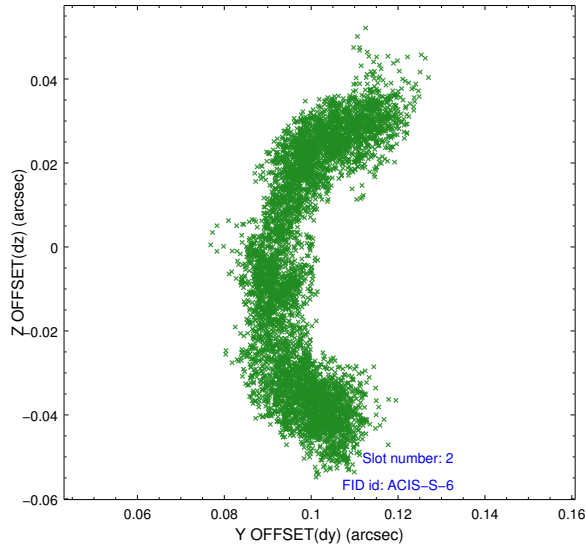
2.5.1 Slot 0



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)	2015.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.076296646357

A.2 Comments