

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18802 - L2 Version 1
Chandra X-Ray Center

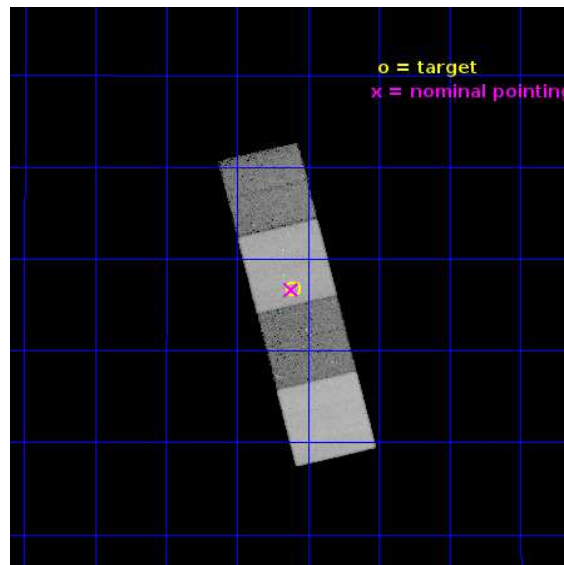
L2 Processing Date : Apr 4 2016

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1 Front

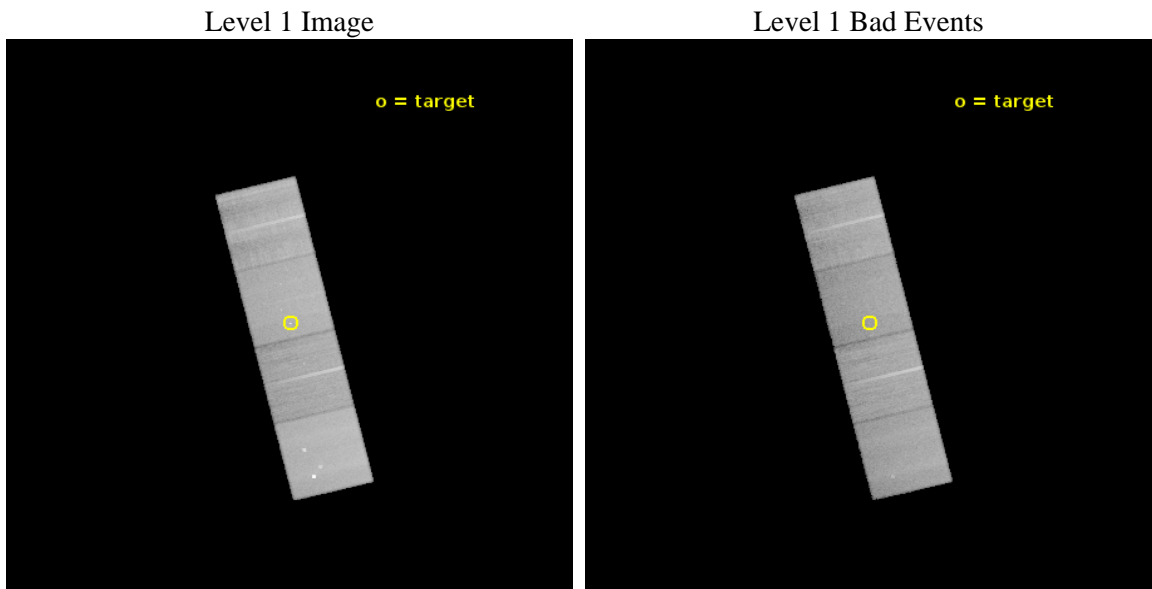
seq_num	502662	Sequence number
obs_id	18802	Observation id
title	SN2005ip awakens: an unprecedented glimpse of explosive mass-loss 10,000 years before core-collapse	Proposal title
observer	Jon Mauerhan	Principal investigator
object	SN 2005ip	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.026667	Observer's specified target RA [deg]
dec_targ	8.445667	Observer's specified target Dec [deg]
ra_nom	143.02900912647	Nominal RA [deg]
dec_nom	8.4442437586067	Nominal Dec [deg]
roll_nom	256.13855375609	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36062.176778316	Sum of GTIs [s]
livetime	35590.997890119	Livetime [s]
ontime5	36062.135738373	Sum of GTIs [s]
ontime6	36062.09469831	Sum of GTIs [s]
ontime7	36062.176778316	Sum of GTIs [s]
ontime8	36055.771547198	Sum of GTIs [s]
l2events	332557	Number of level 2 events



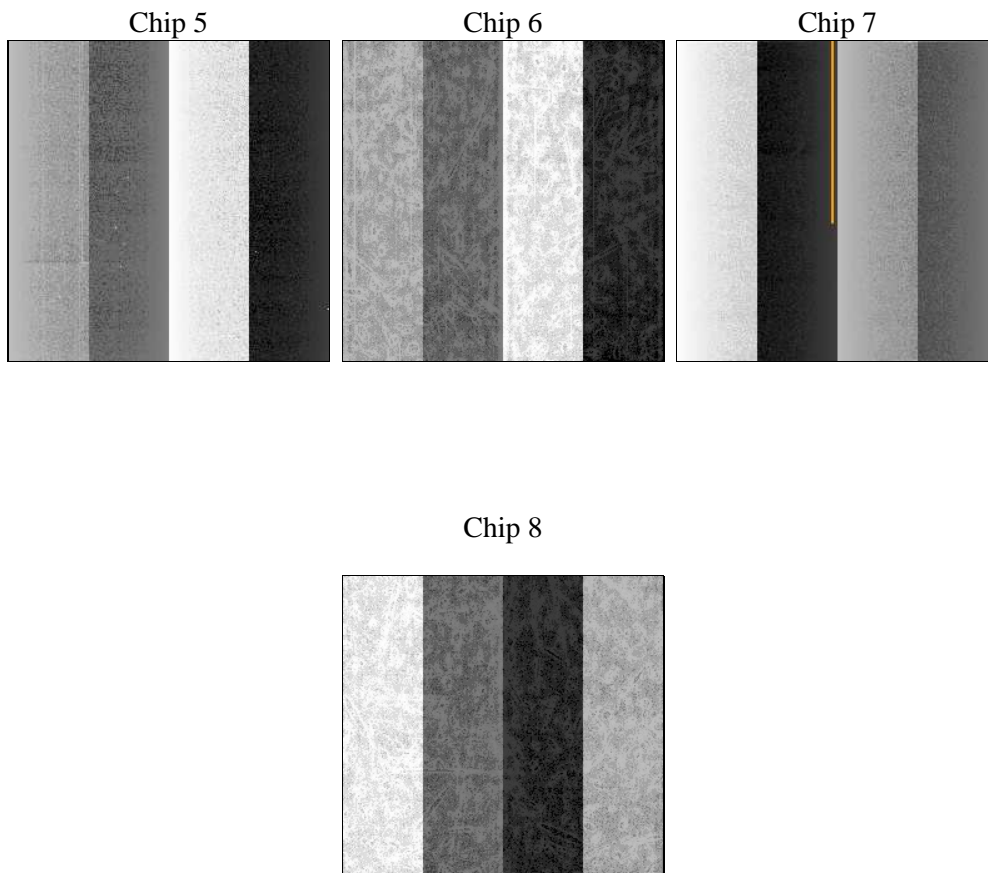
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	36062.176778316	Sum of GTIs [s]
caldsver	4.7.1	 	ontime5	36062.135738373	Sum of GTIs [s]
date	2016-04-04T20:24:14	Date and time of file creation	ontime6	36062.09469831	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	36062.176778316	Sum of GTIs [s]
			ontime8	36055.771547198	Sum of GTIs [s]
			l1events	1183709	Number of level 1 events

2.1.4 Events

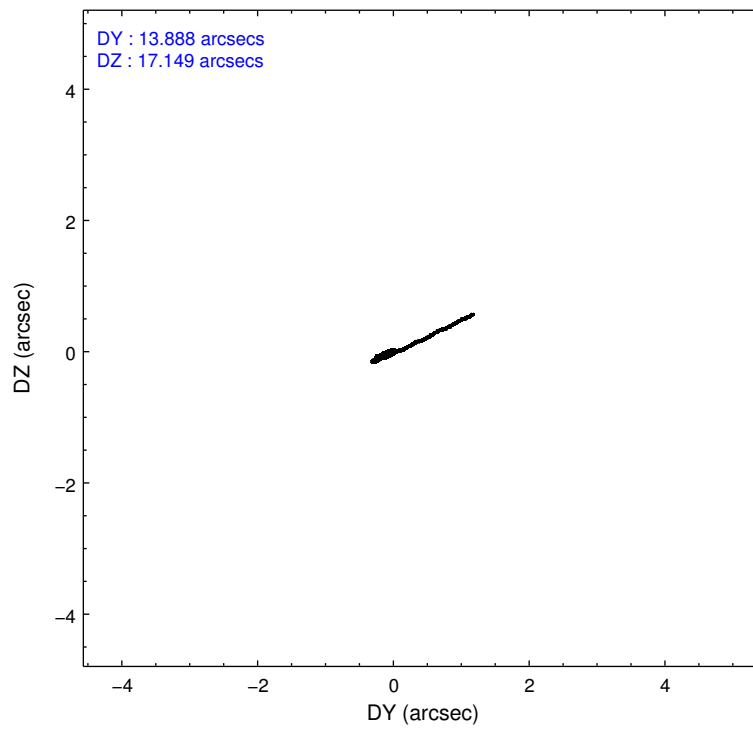
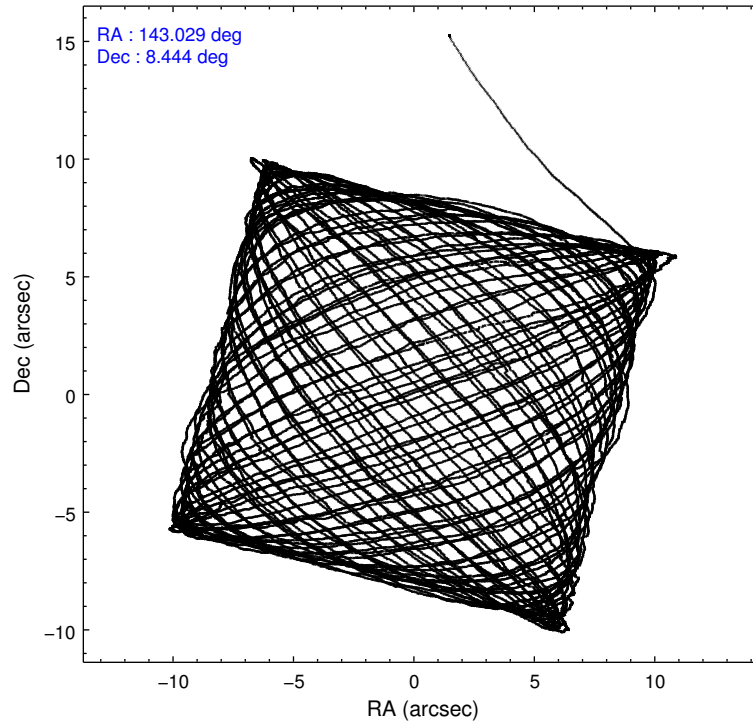
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	365234	232897	294892	290686
rejected events	189097	207189	168828	218541
rejected %	51%	88%	57%	75%

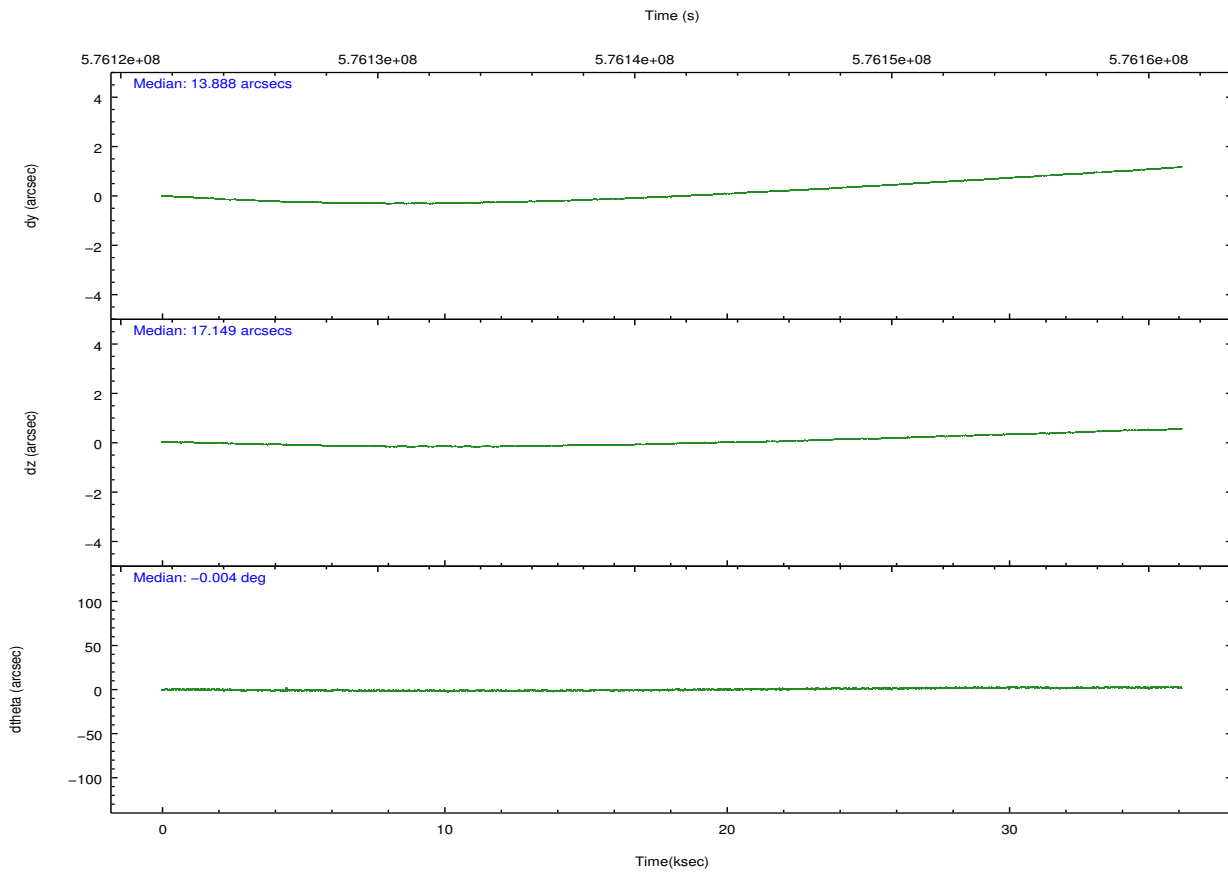
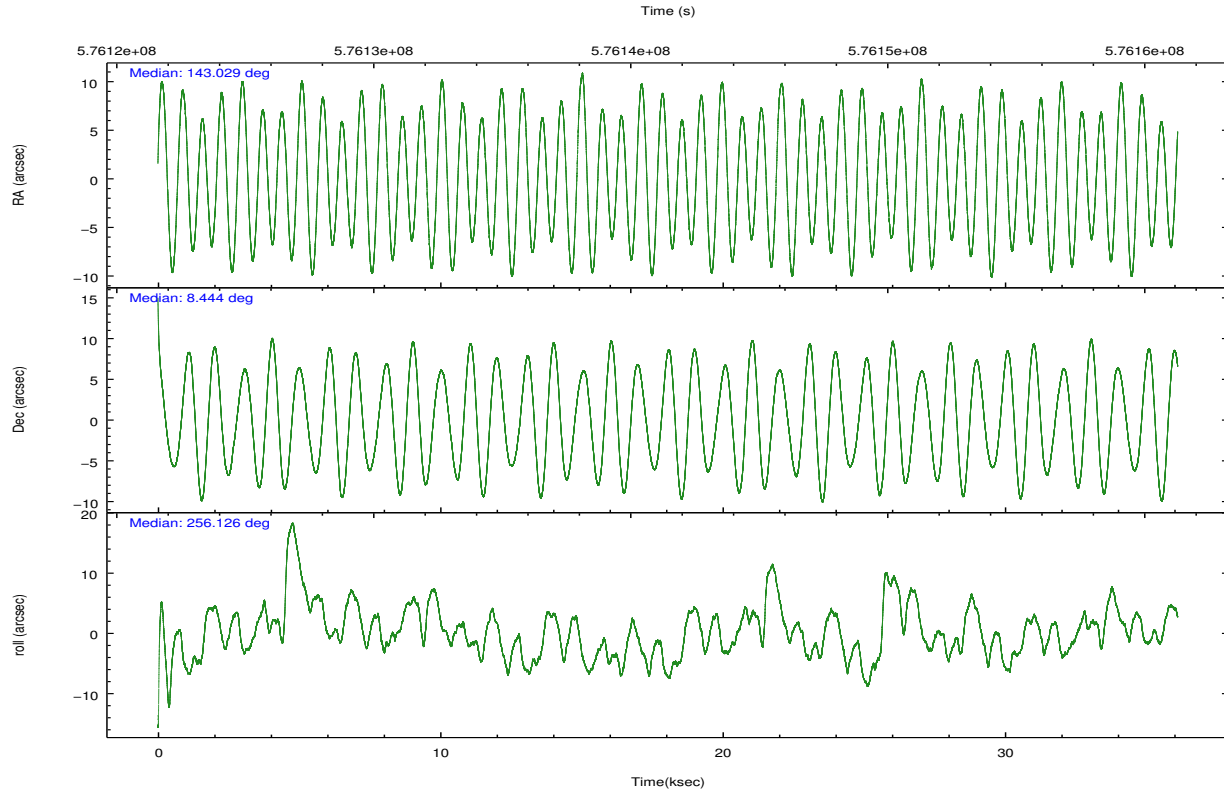
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15670	8160	10139	19996
	4%	3%	3%	6%
grade 1 events	1146	92	348	215
	0%	0%	0%	0%
grade 2 events	54053	6296	26706	17981
	14%	2%	9%	6%
grade 3 events	4910	2378	9460	7456
	1%	1%	3%	2%
grade 4 events	4882	2382	9224	7079
	1%	1%	3%	2%
grade 5 events	23525	10207	27919	15756
	6%	4%	9%	5%
grade 6 events	96634	6495	70545	19667
	26%	2%	23%	6%
grade 7 events	164414	196887	140551	202536
	45%	84%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	143.020941	143.0290091264728	CCD I2 on	N	N
[deg] Pointing Dec	8.470497	8.444243758606669	CCD I3 on	O1	N
[deg] Pointing Roll	255.983119	256.1385537560864	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	576123487.184000	576122245.5880899	CCD S5 on	N	N
Observation start date	2016-04-04T02:16:59	2016-04-04T01:57:25	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	576159487.184000	576160728.70279	On-chip summing requested	N	N
Observation end date	2016-04-04T12:16:59	2016-04-04T12:38:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





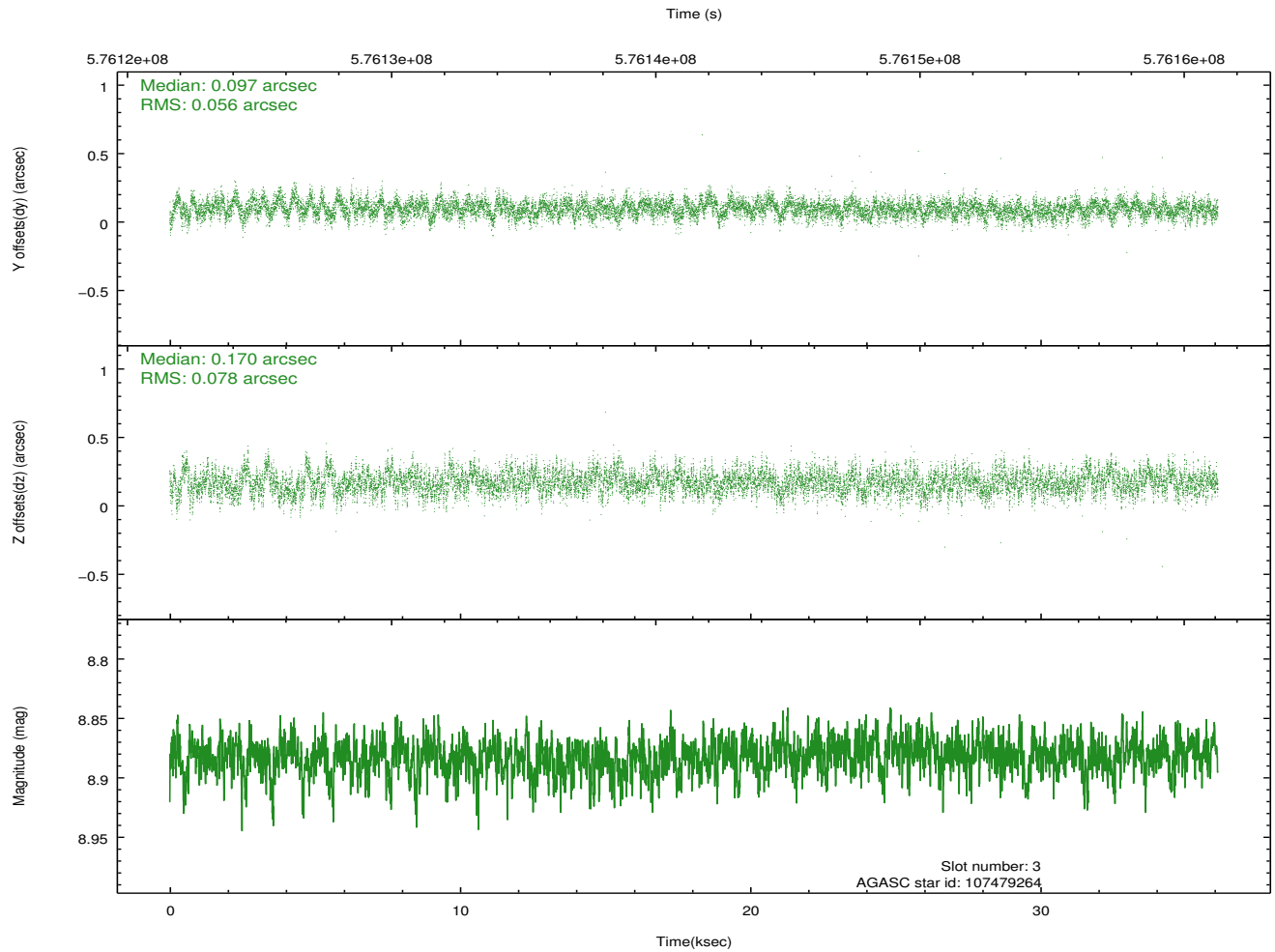
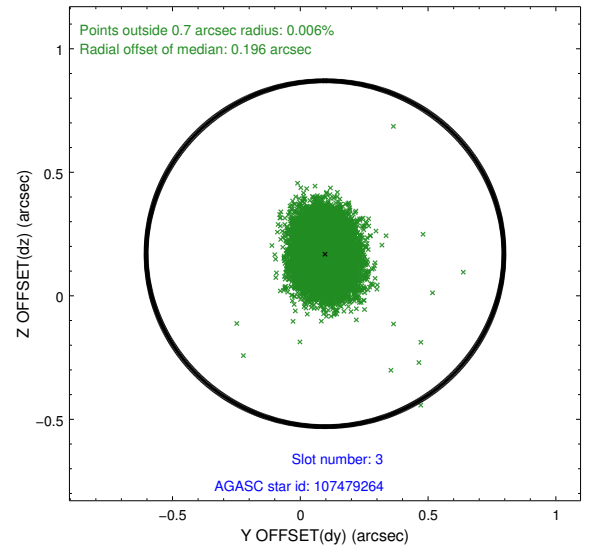
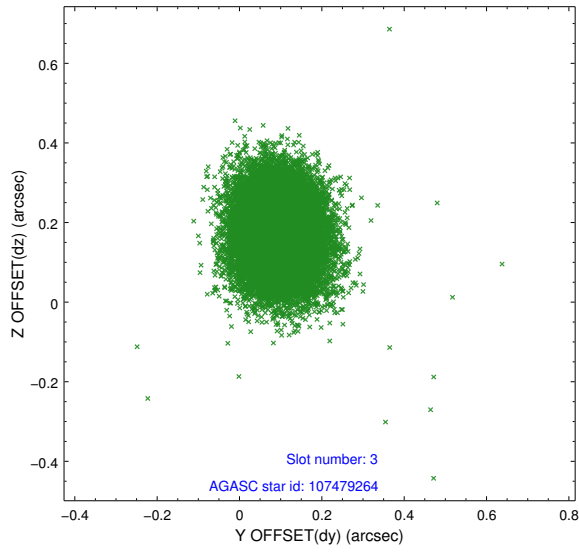
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	8809	-0.149	-0.113	0.018	0.036	0.000000	0.000000	-767.16	-1738.72
1	FID		ACIS-S-4	7.22	8808	0.437	0.102	0.014	0.027	0.000000	0.000000	2146.69	169.94
2	FID		ACIS-S-5	7.24	8808	-0.316	0.018	0.010	0.016	0.000000	0.000000	-1820.12	163.56
3	GUIDE	used	107479264	8.88	17608	0.097	0.170	0.100	0.166	142.772854	8.692324	-560.48	-1049.95
4	GUIDE	used	107484488	9.40	17603	-0.114	0.098	0.190	0.305	142.581095	8.602790	-83.08	-1634.49
5	GUIDE	used	107491640	9.01	17598	0.066	0.058	0.113	0.185	142.816148	8.056486	1623.21	-347.19
6	GUIDE	used	107623072	9.17	17606	0.056	-0.059	0.227	0.354	143.239017	8.173662	849.33	1012.40
7	GUIDE	used	107621720	9.41	17158	-0.093	-0.277	0.199	0.306	143.667025	8.263663	163.09	2413.10

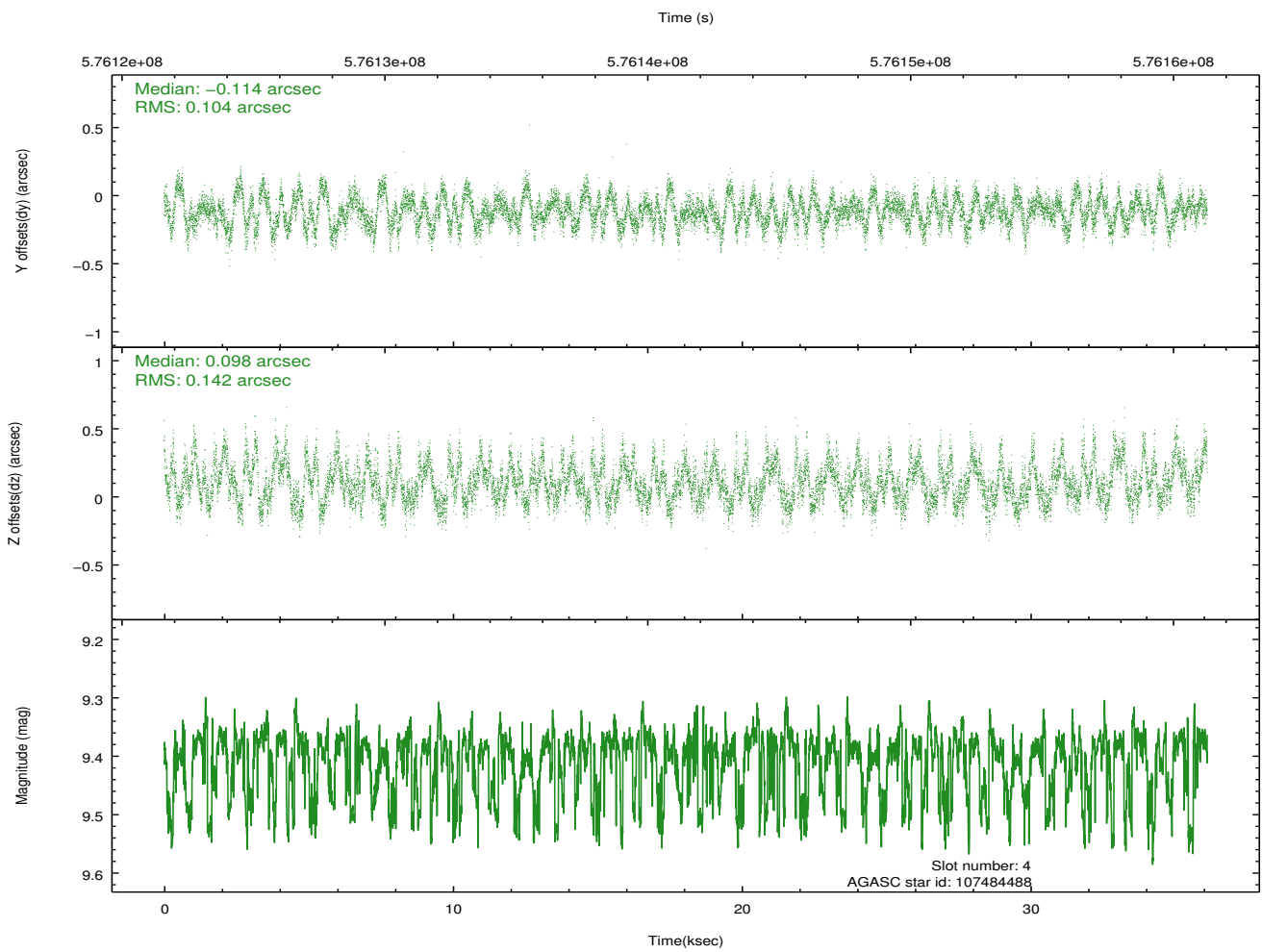
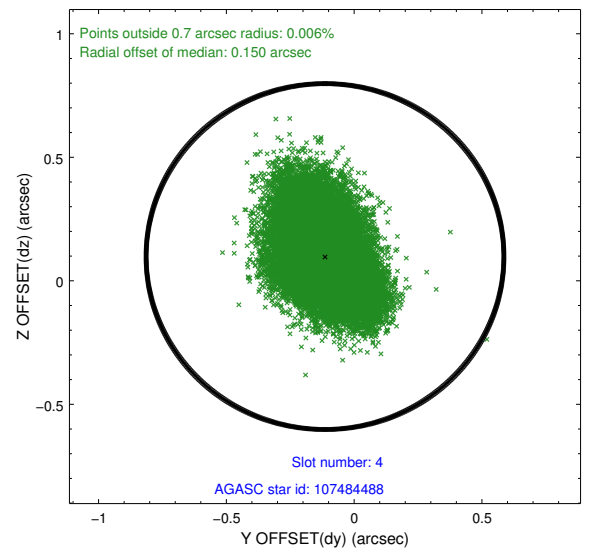
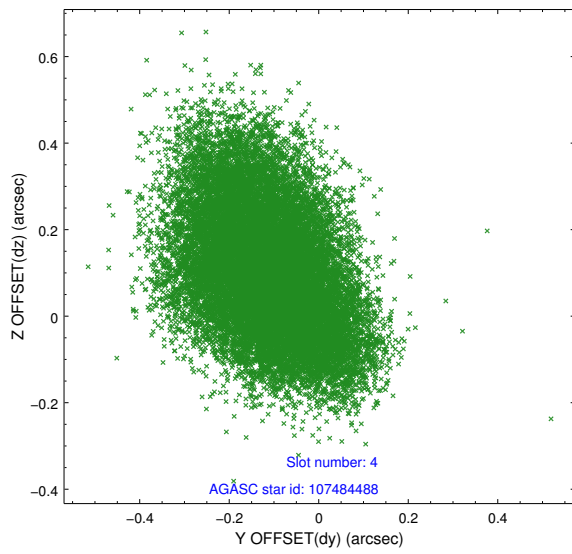
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2.4 Star Slots

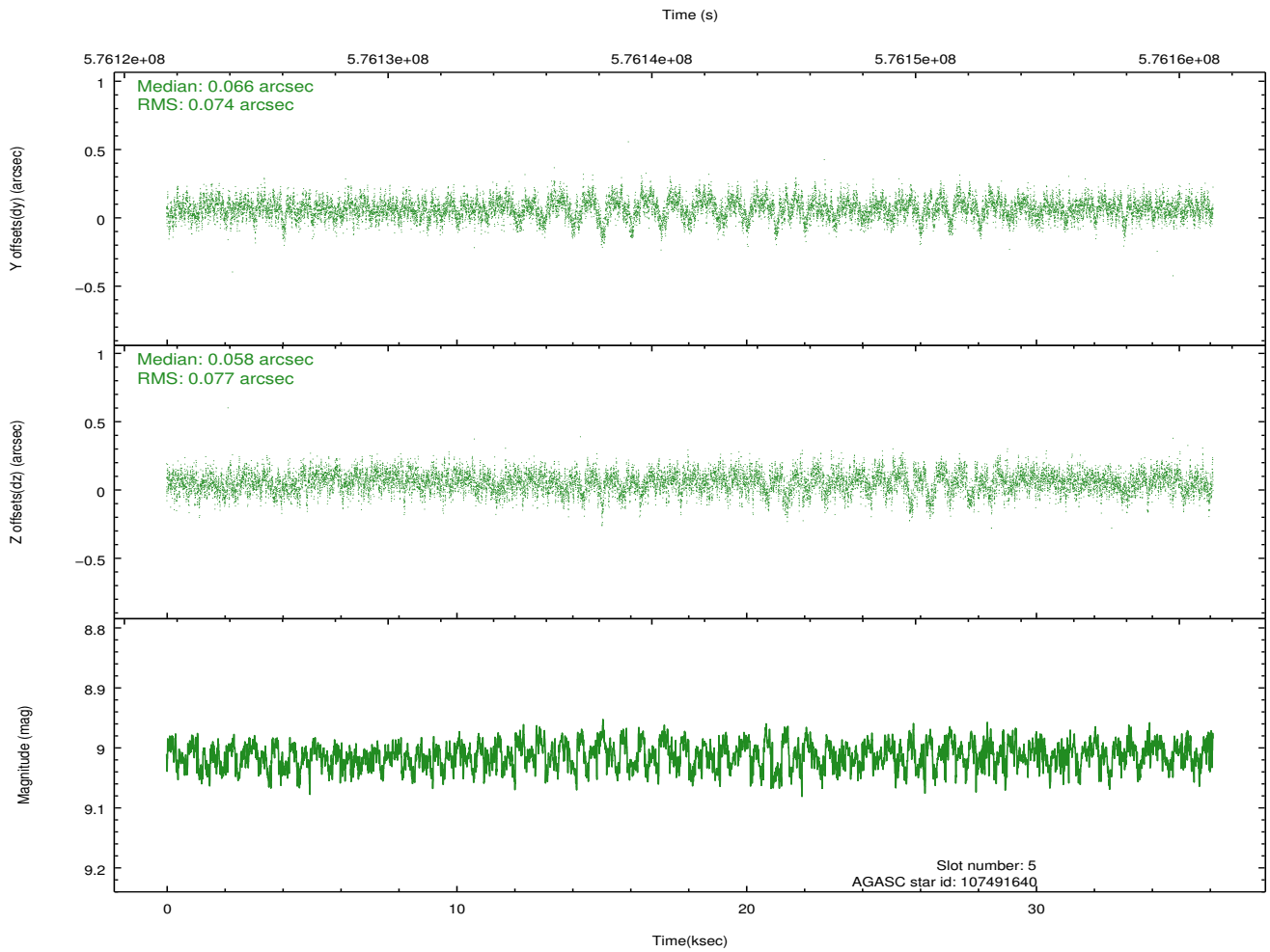
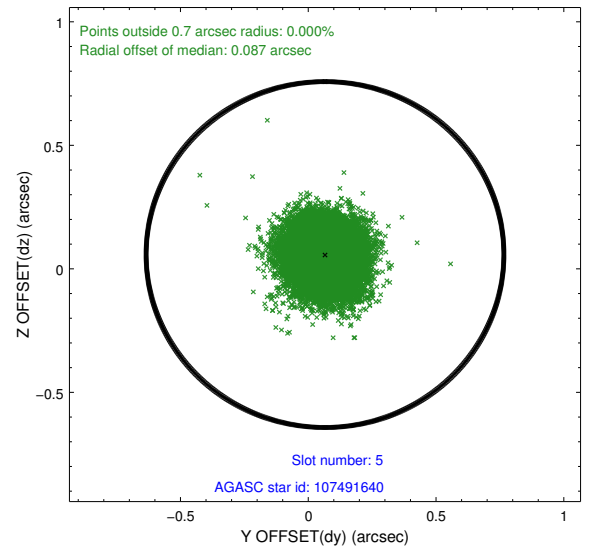
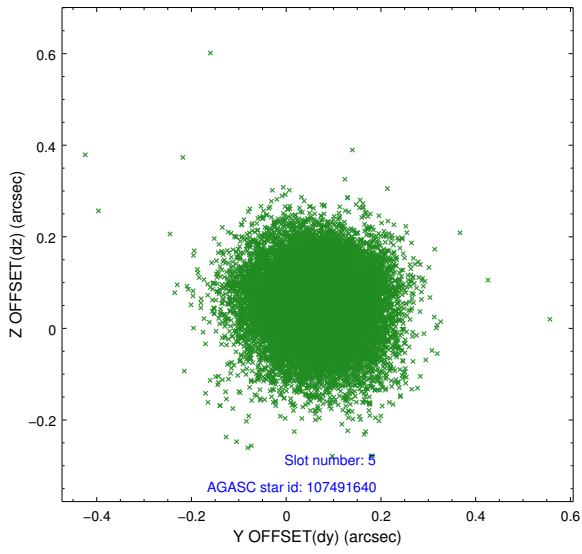
2.4.1 Slot 3



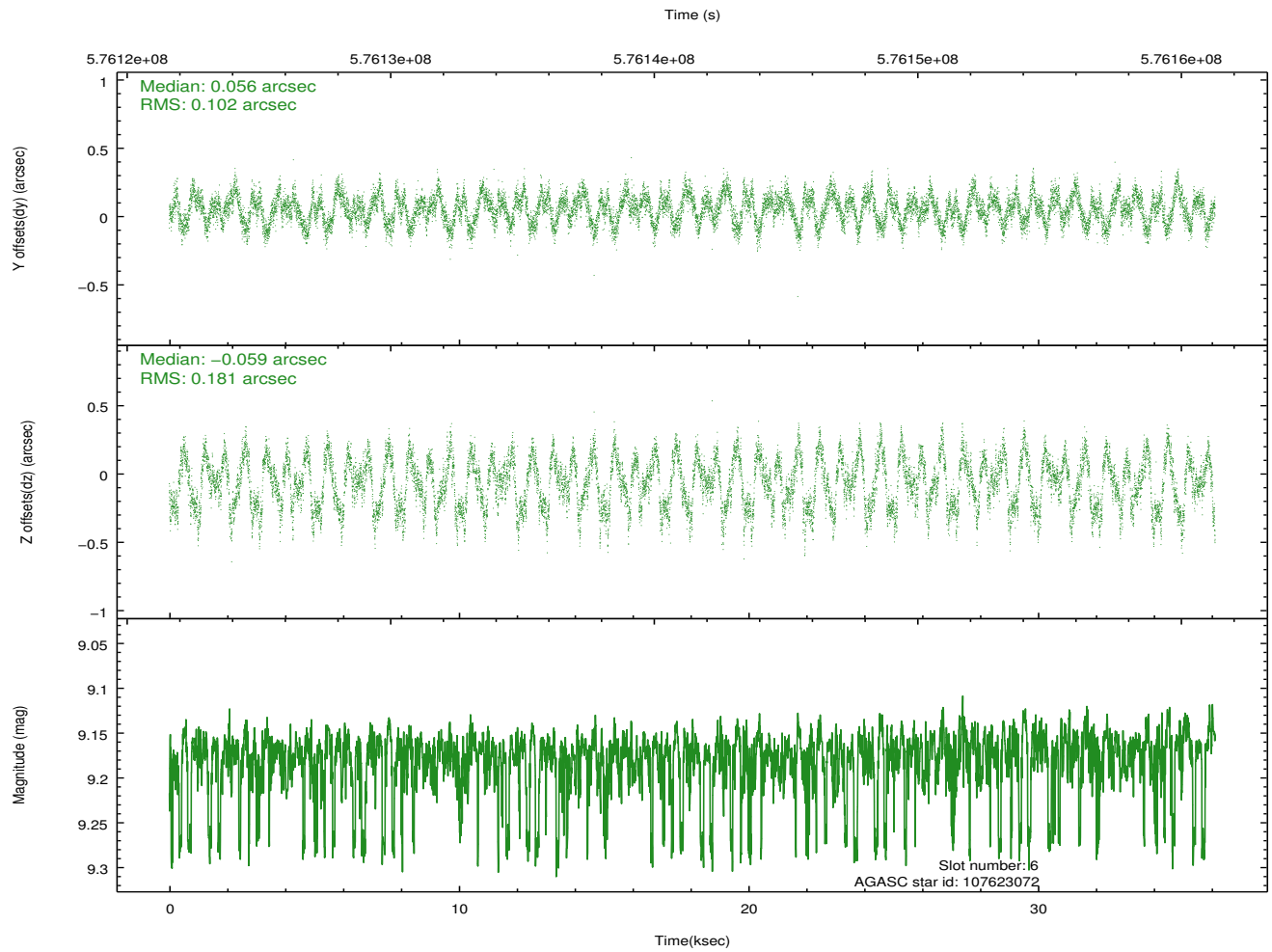
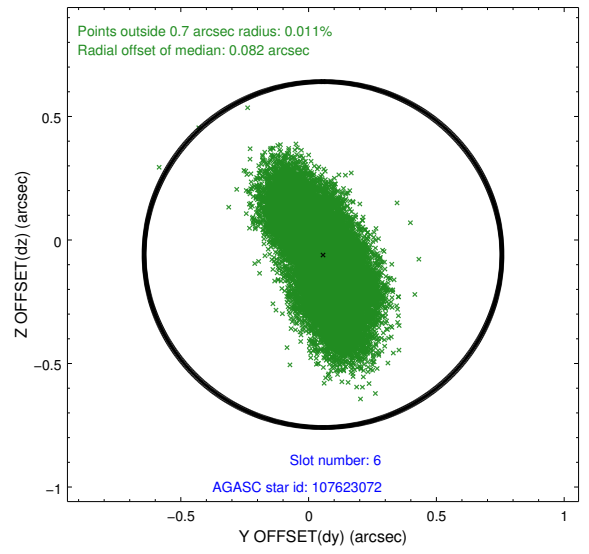
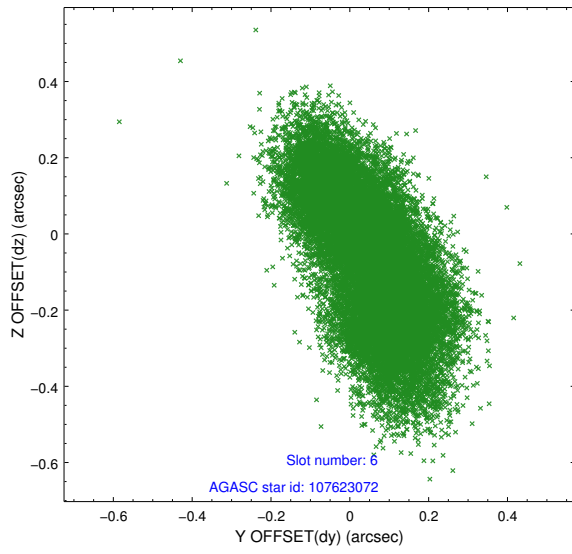
2.4.2 Slot 4



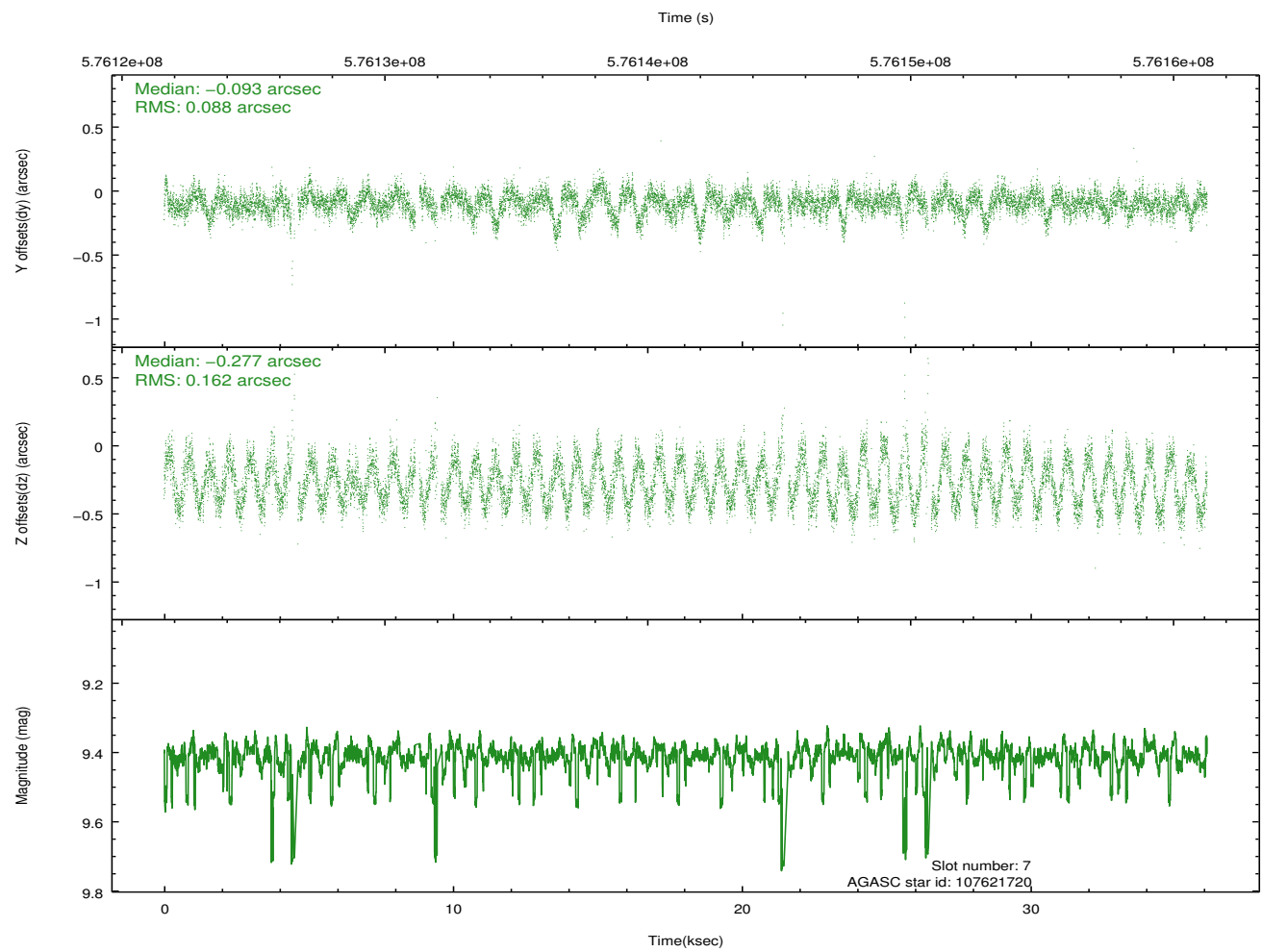
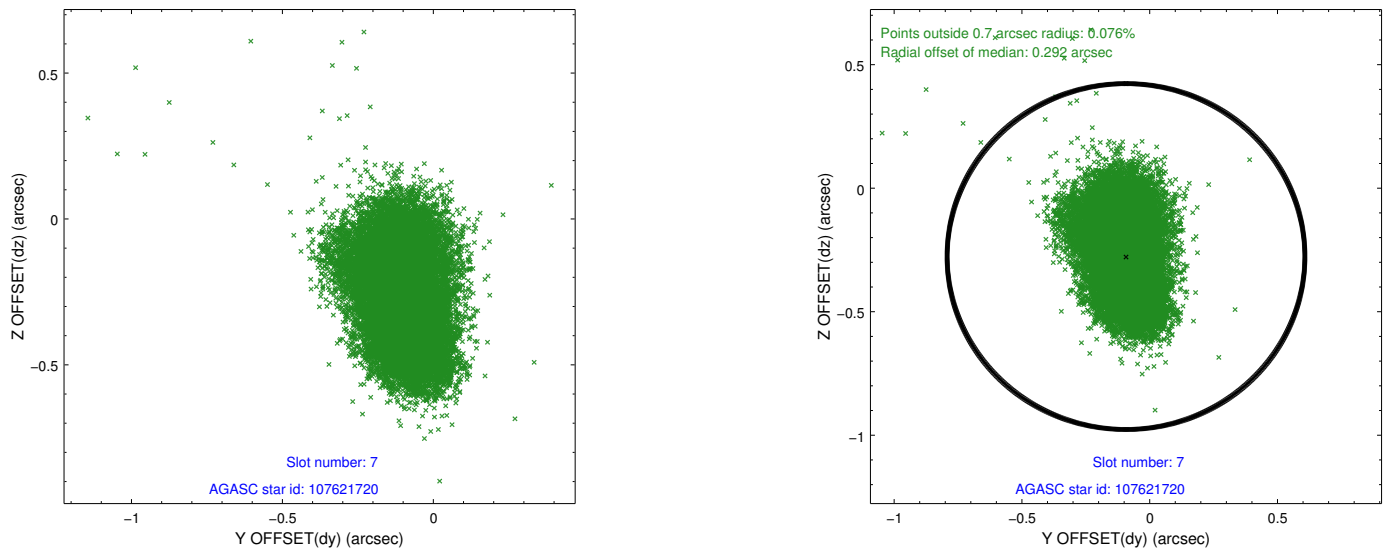
2.4.3 Slot 5



2.4.4 Slot 6

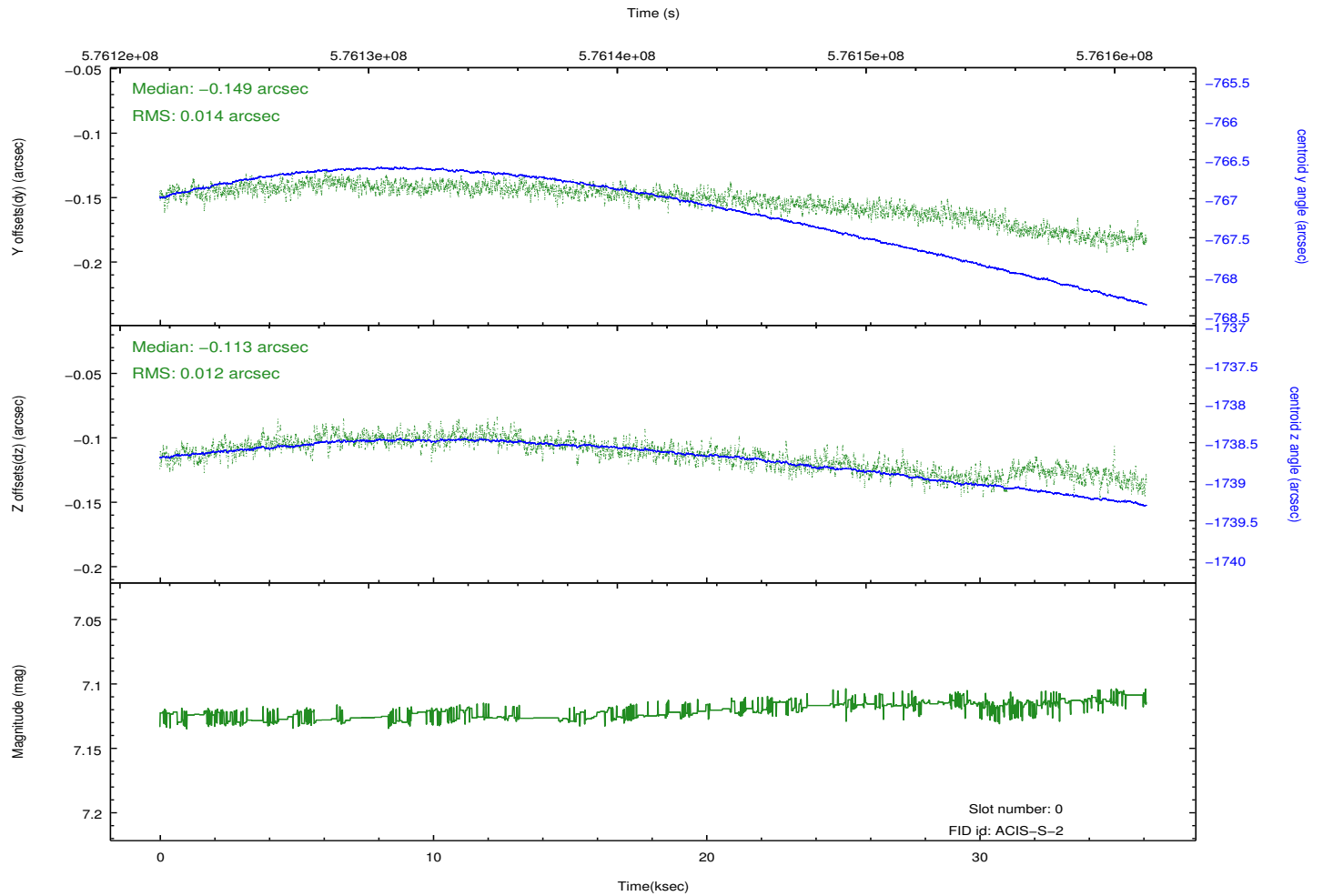
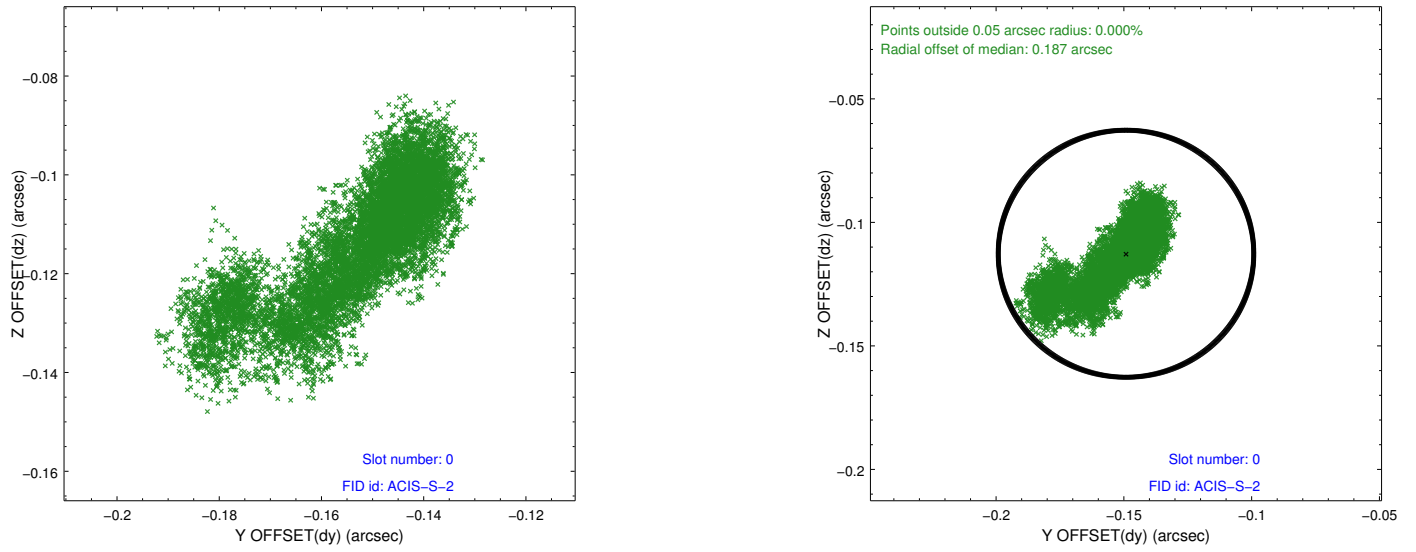


2.4.5 Slot 7

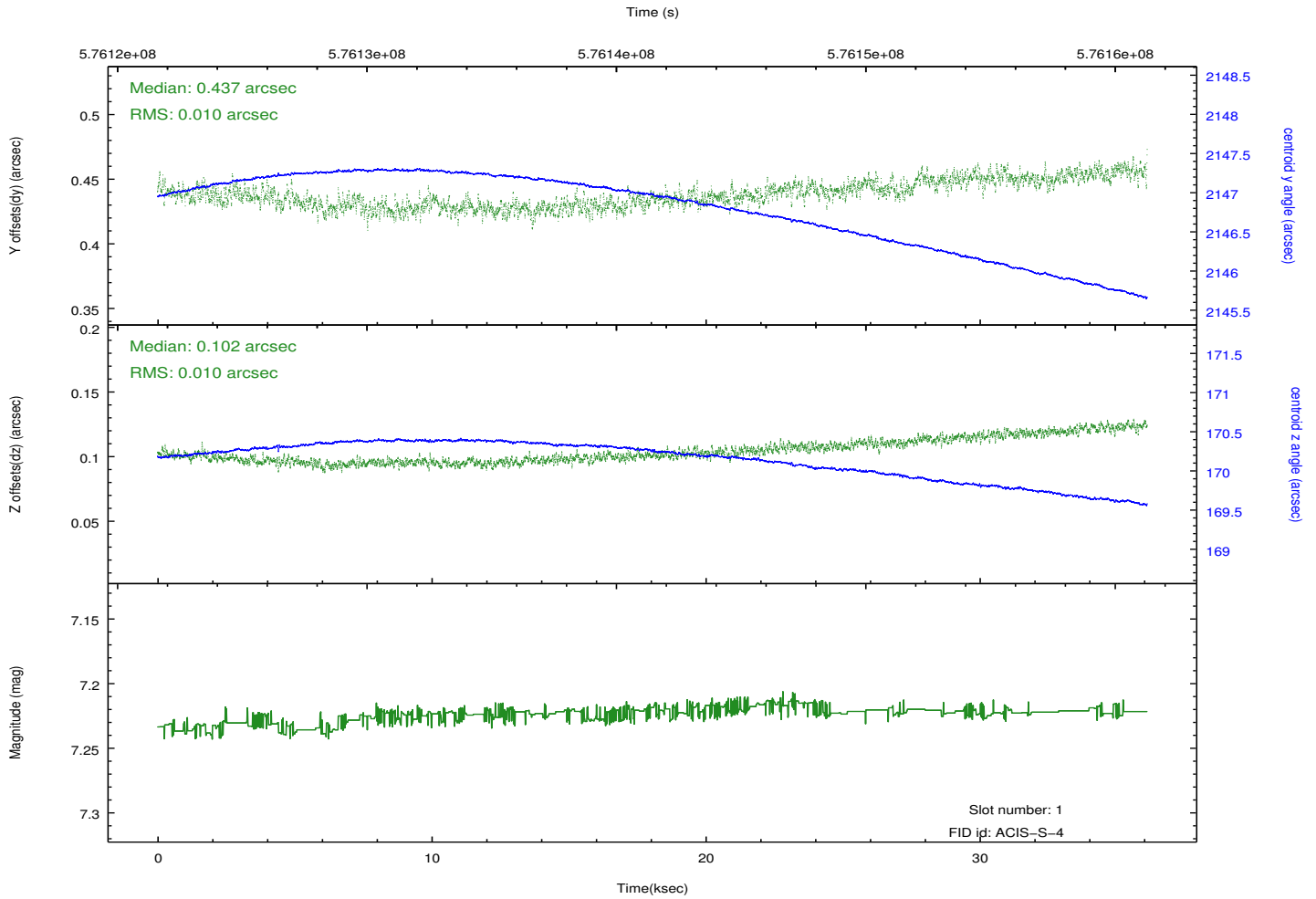
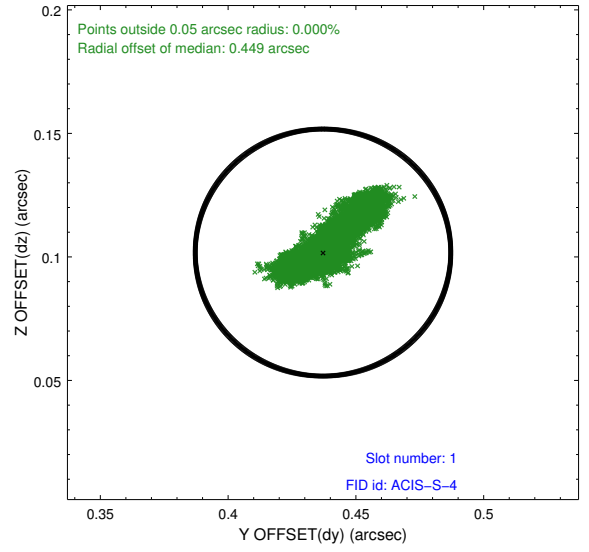
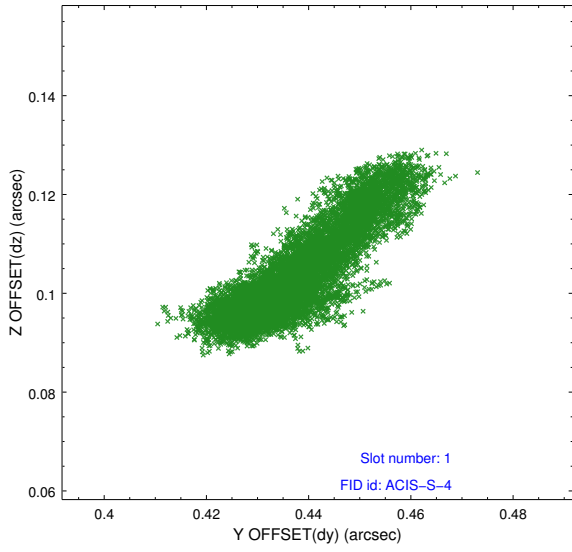


2.5 FID Slots

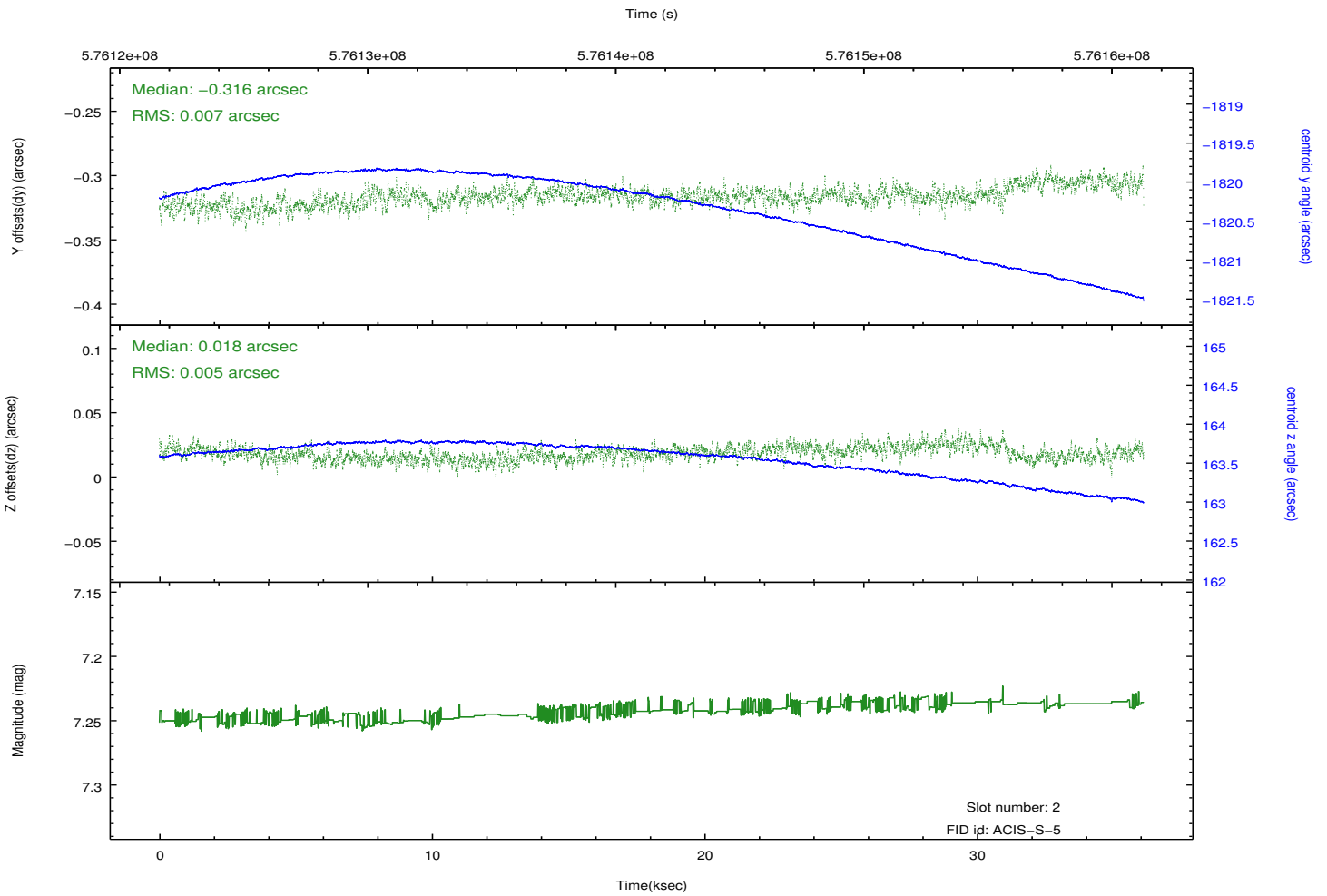
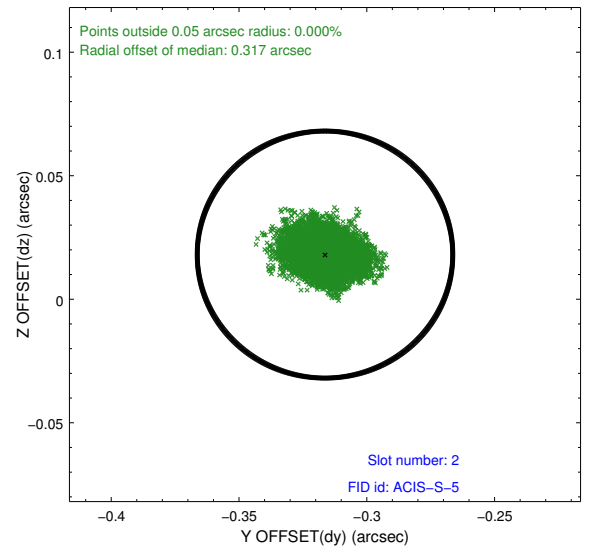
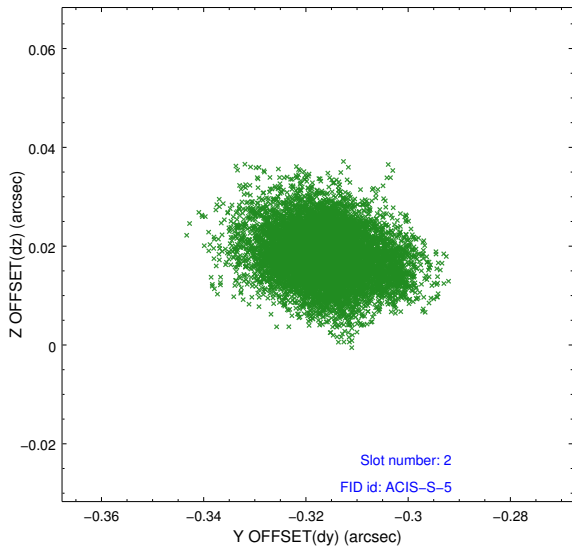
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.062176778316

A.2 Comments