

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18766 - L2 Version 1
Chandra X-Ray Center

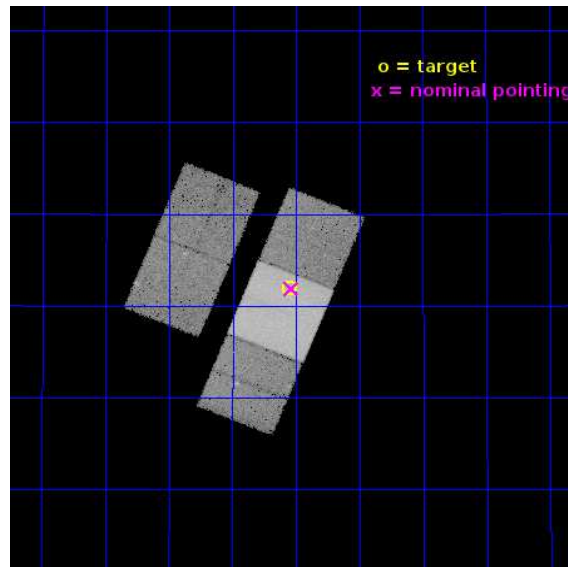
L2 Processing Date : Feb 16 2016

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1 Front

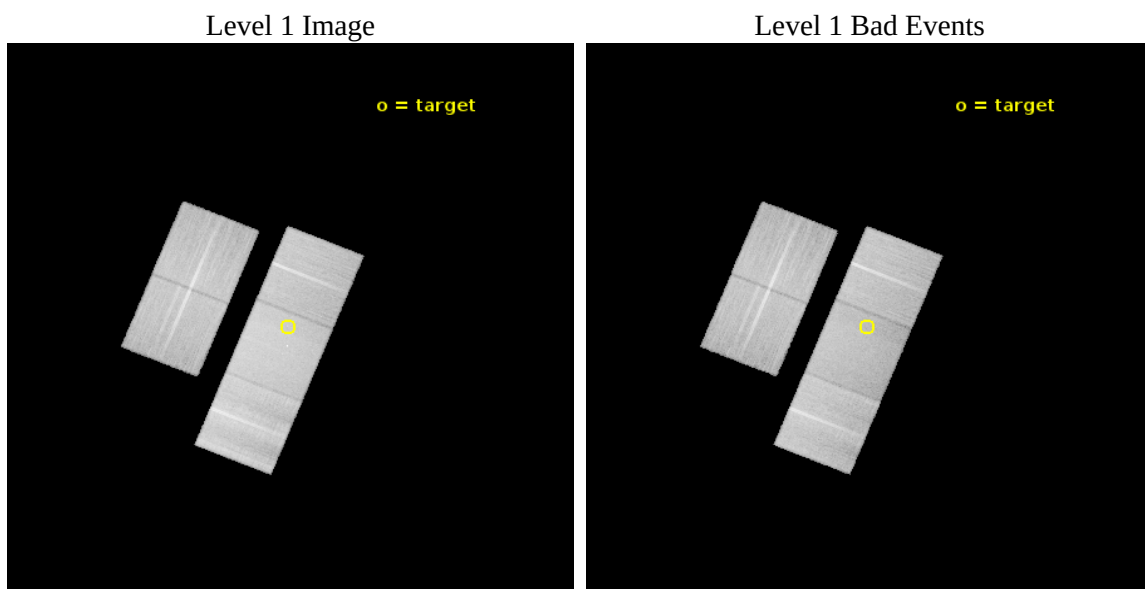
seq_num	502478	Sequence number
obs_id	18766	Observation id
title	The Burst of the Century	Proposal title
observer	Dr. Andrew Fruchter	Principal investigator
object	GRB 130427A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.136667	Observer's specified target RA [deg]
dec_targ	27.698944	Observer's specified target Dec [deg]
ra_nom	173.13409175242	Nominal RA [deg]
dec_nom	27.698200198014	Nominal Dec [deg]
roll_nom	112.15785131676	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41059.500315905	Sum of GTIs [s]
livetime	40523.027716713	Livetime [s]
ontime2	41053.218195438	Sum of GTIs [s]
ontime3	41056.359235764	Sum of GTIs [s]
ontime6	41056.359225631	Sum of GTIs [s]
ontime7	41059.500315905	Sum of GTIs [s]
ontime8	41059.500315905	Sum of GTIs [s]
l2events	227102	Number of level 2 events



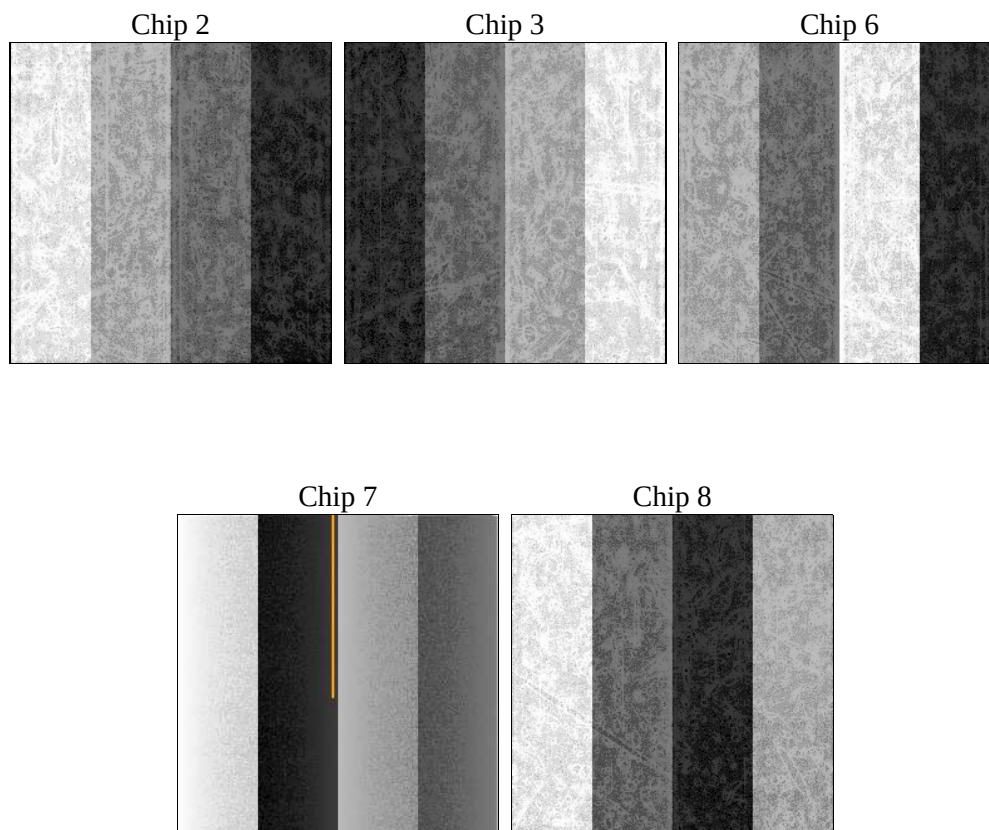
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	41059.500315905	Sum of GTIs [s]
caldsver	4.7.0	 	ontime2	41053.218195438	Sum of GTIs [s]
date	2016-02-16T18:45:17	Date and time of file creation	ontime3	41056.359235764	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	41056.359225631	Sum of GTIs [s]
			ontime7	41059.500315905	Sum of GTIs [s]
			ontime8	41059.500315905	Sum of GTIs [s]
			l1events	1394275	Number of level 1 events

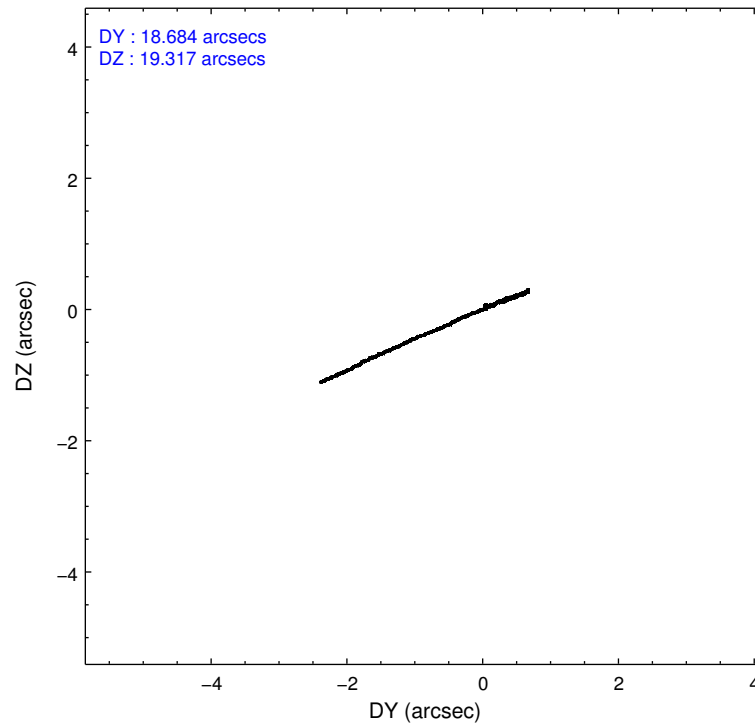
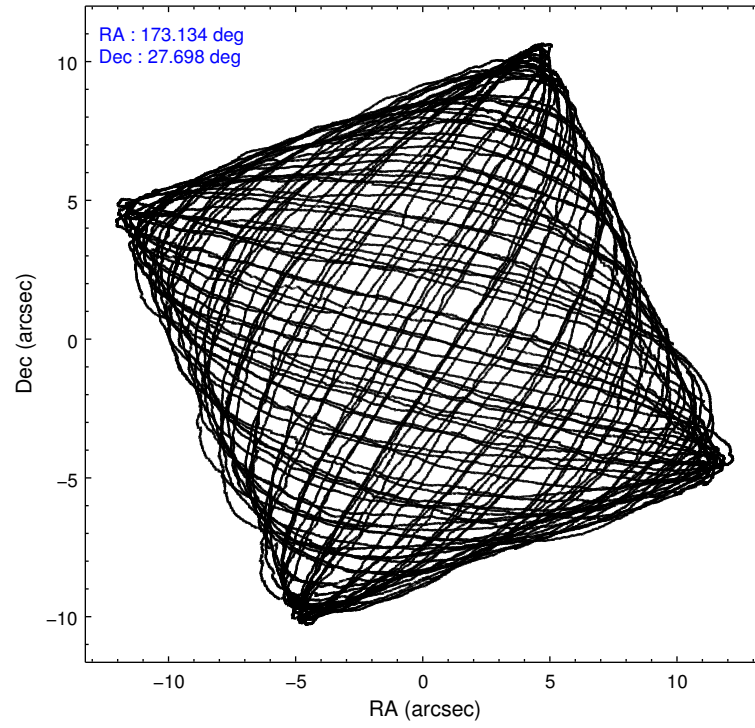
2.1.4 Events

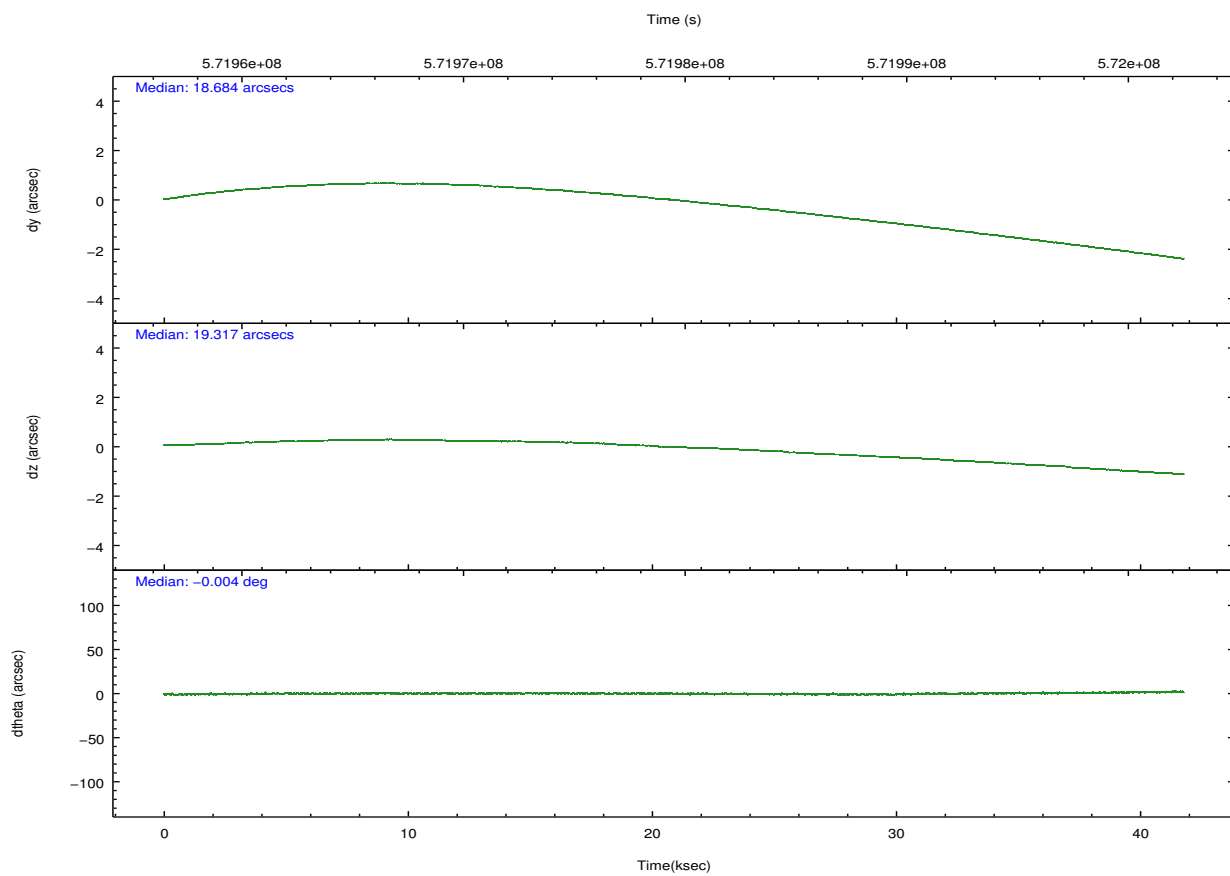
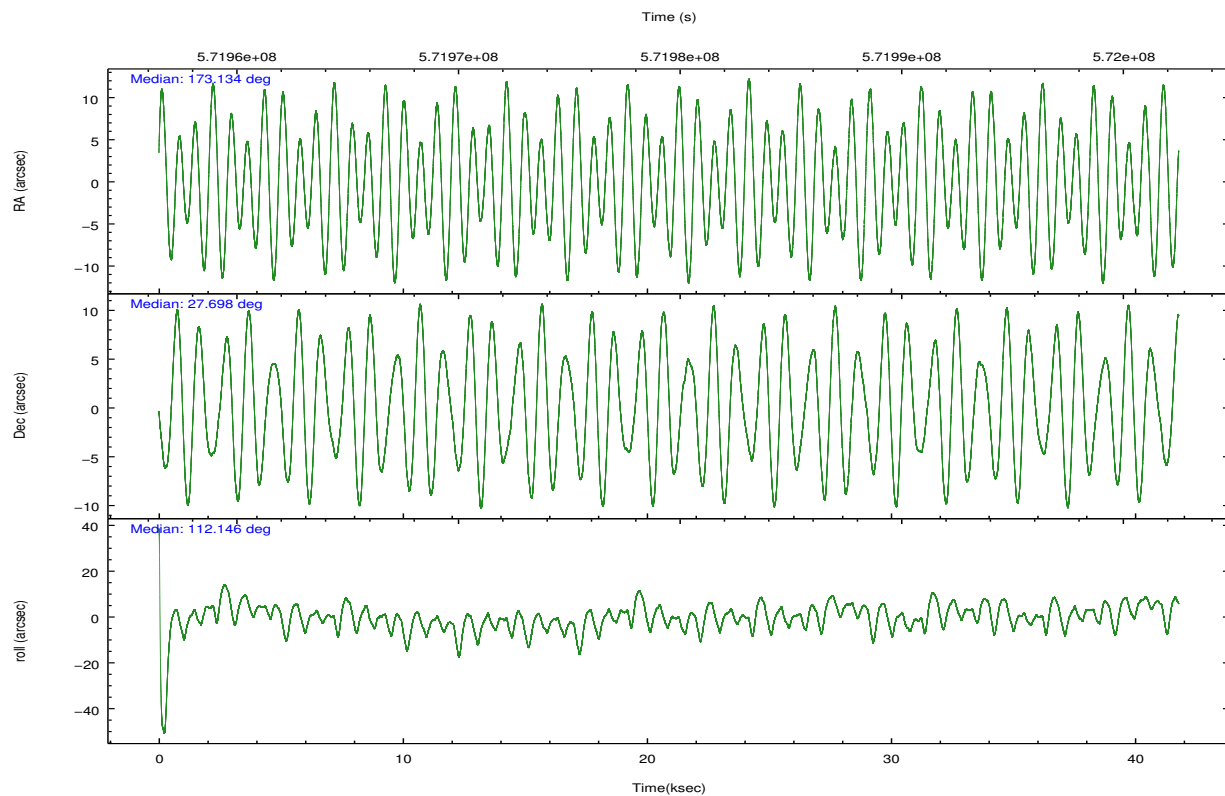
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	247203	243382	253390	322201	328099	grade 0 events	8680	8847	8869	11280	22854
rejected events	222239	217966	225161	186374	245644		3%	3%	3%	3%	6%
rejected %	89%	89%	88%	57%	74%	grade 1 events	141	129	120	444	237
							0%	0%	0%	0%	0%
						grade 2 events	5953	5569	6928	28550	20446
							2%	2%	2%	8%	6%
						grade 3 events	2688	2758	2813	10215	8347
							1%	1%	1%	3%	2%
						grade 4 events	2576	2794	2673	10176	7967
							1%	1%	1%	3%	2%
						grade 5 events	9666	12006	11867	30747	17785
							3%	4%	4%	9%	5%
						grade 6 events	5076	5451	6948	75633	22849
							2%	2%	2%	23%	6%
						grade 7 events	212423	205828	213172	155156	227614
							85%	84%	84%	48%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	173.158818	173.134091752415	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.681663	27.6982001980141	Alternating exposures requested	N	N
[deg] Pointing Roll	111.989706	112.1578513167591	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	571959358.184000	571958118.34001			
Observation start date	2016-02-15T21:34:50	2016-02-15T21:15:18			
[s] Observation end time (MET)	572000358.184000	572000875.70494			
Observation end date	2016-02-16T08:58:10	2016-02-16T09:07:55			
Read mode	TIMED	TIMED			

2.3 Aspect



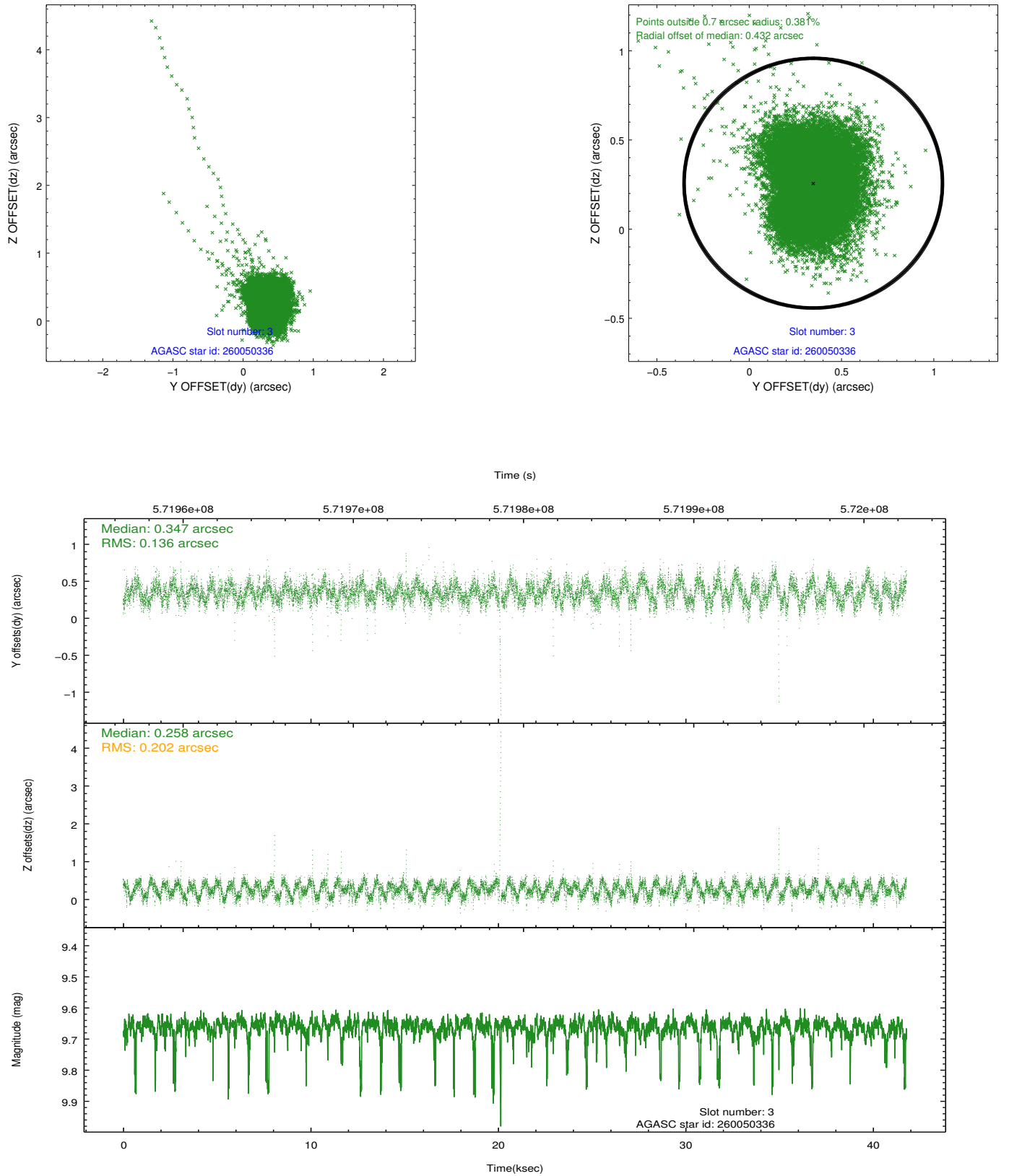


Slot Statistics

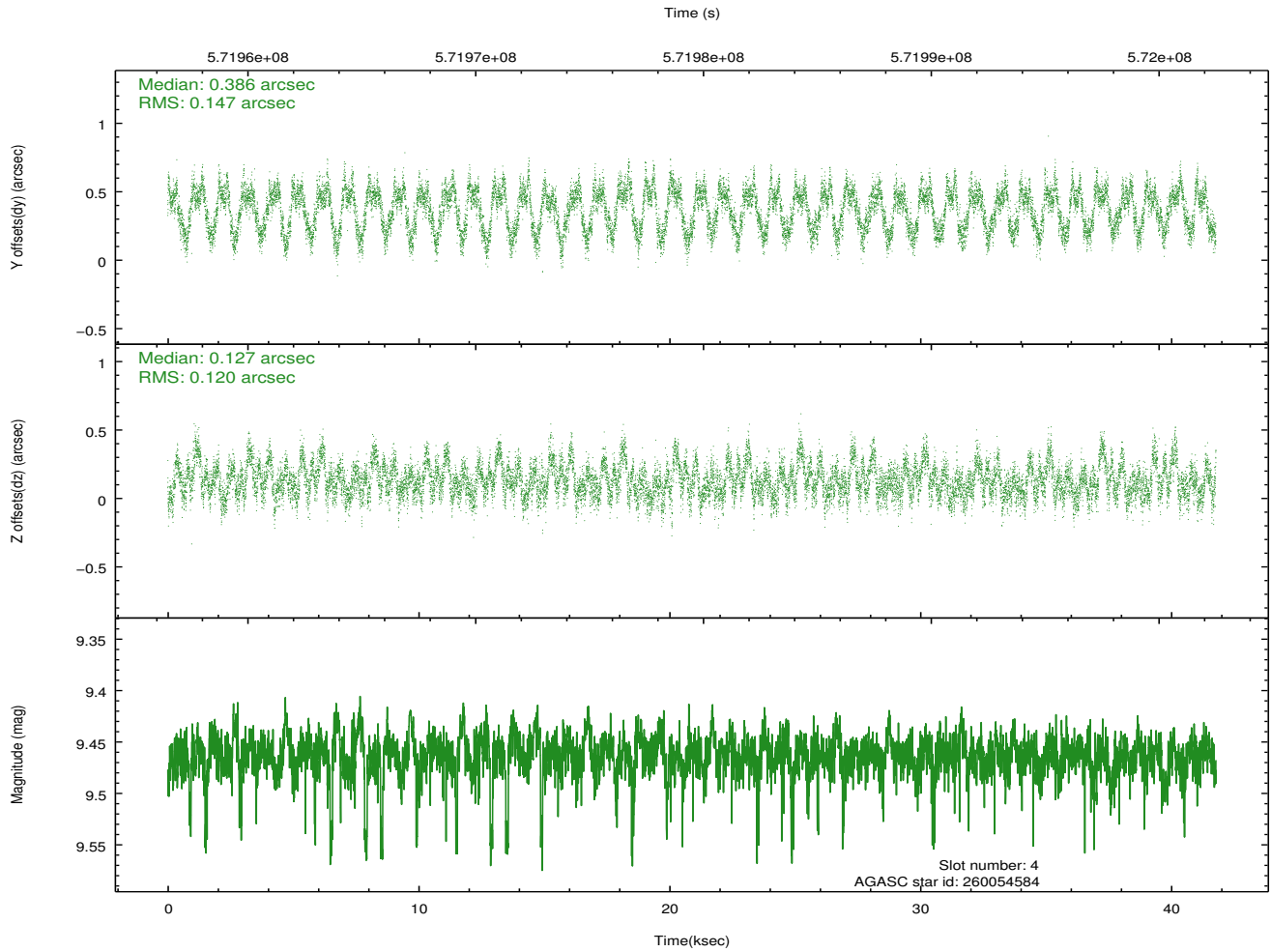
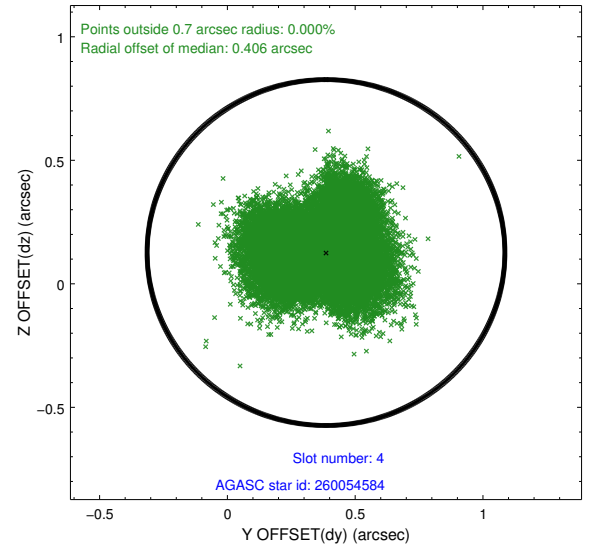
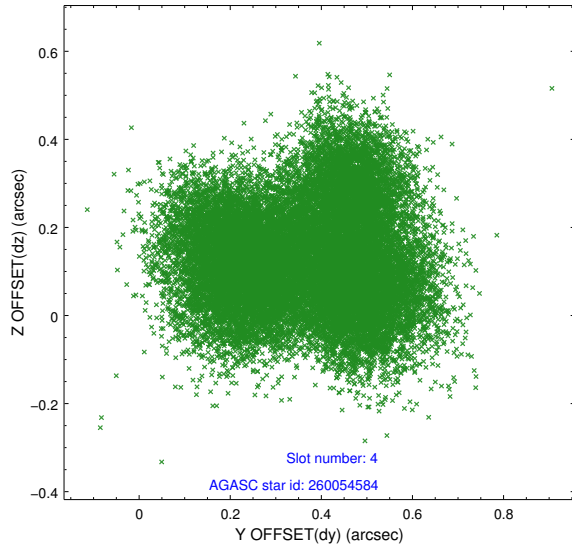
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	10191	-0.194	-0.141	0.023	0.030	0.000000	0.000000	-771.59	-1740.73
1	FID		ACIS-S-4	7.23	10190	0.476	0.130	0.027	0.052	0.000000	0.000000	2142.35	168.02
2	FID		ACIS-S-5	7.24	10191	-0.306	0.016	0.016	0.030	0.000000	0.000000	-1824.53	161.58
3	GUIDE	used	260050336	9.66	20197	0.347	0.258	0.231	0.358	173.719338	27.205891	-2255.06	-1023.91
4	GUIDE	used	260054584	9.46	20352	0.386	0.127	0.208	0.306	173.745505	27.752896	-456.98	-1830.25
5	GUIDE	used	260055088	8.20	20373	0.005	0.154	0.091	0.151	173.495126	27.260186	-1808.10	-430.29
6	GUIDE	used	260055768	8.99	20369	-0.008	0.026	0.136	0.218	172.801335	27.536211	-56.63	1253.79
7	GUIDE	used	260060264	7.77	20379	-0.701	-0.570	0.093	0.152	172.398353	28.089889	2273.44	1687.16

2.4 Star Slots

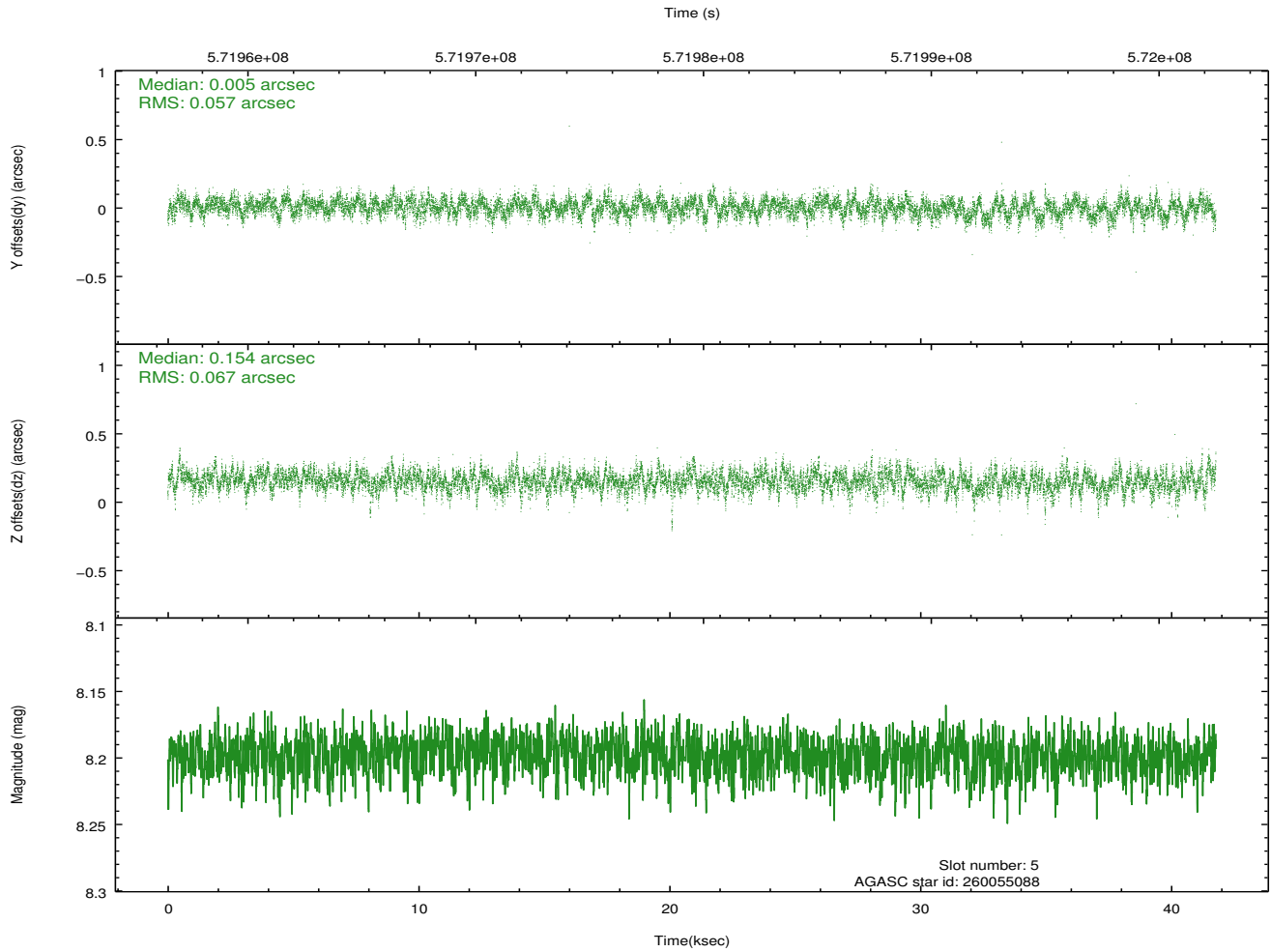
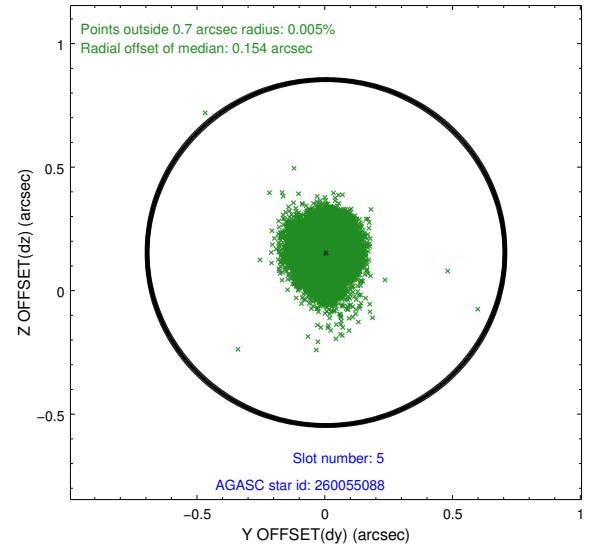
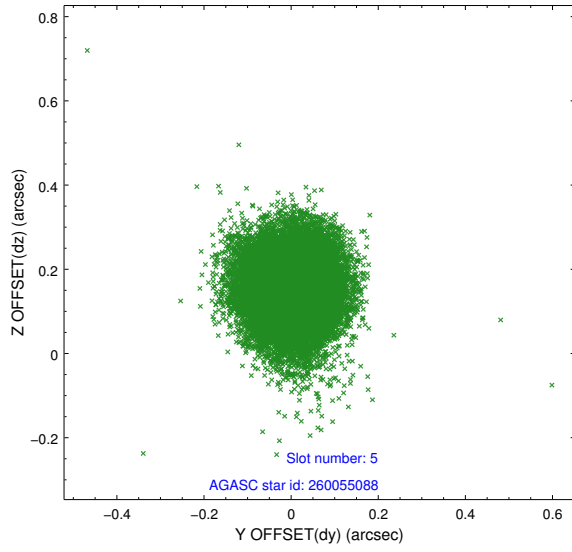
2.4.1 Slot 3



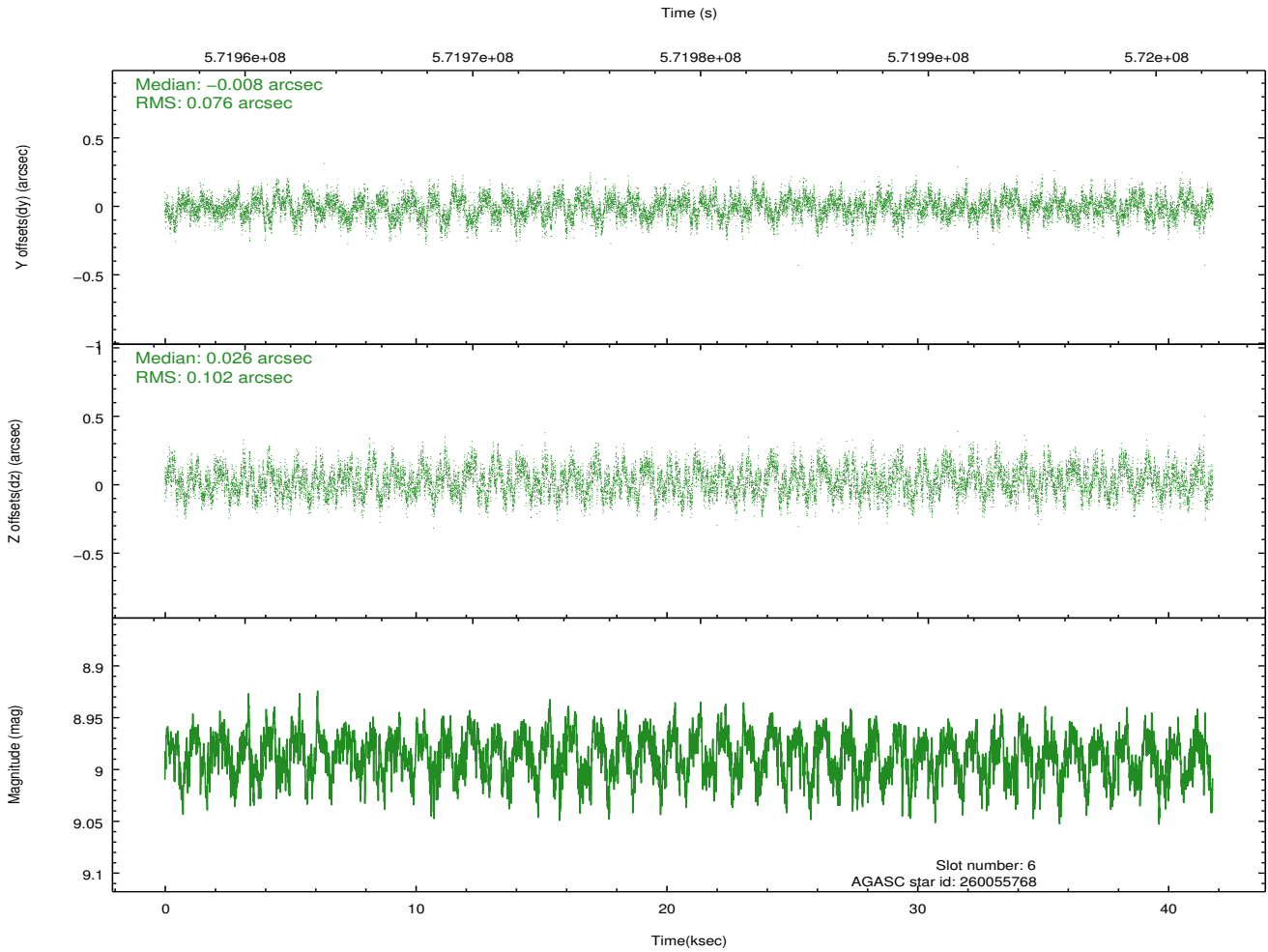
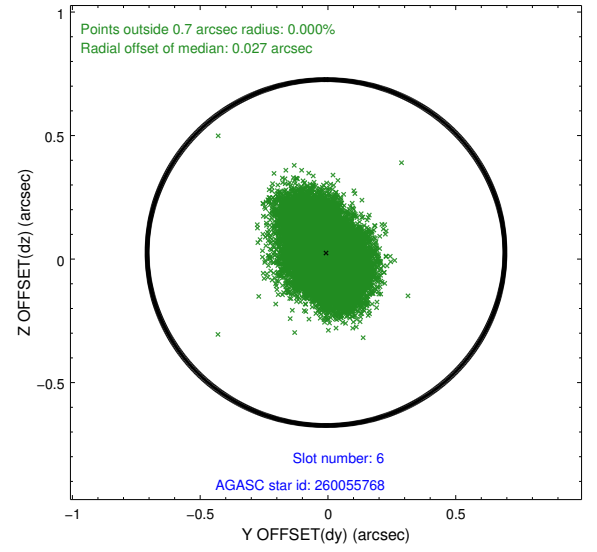
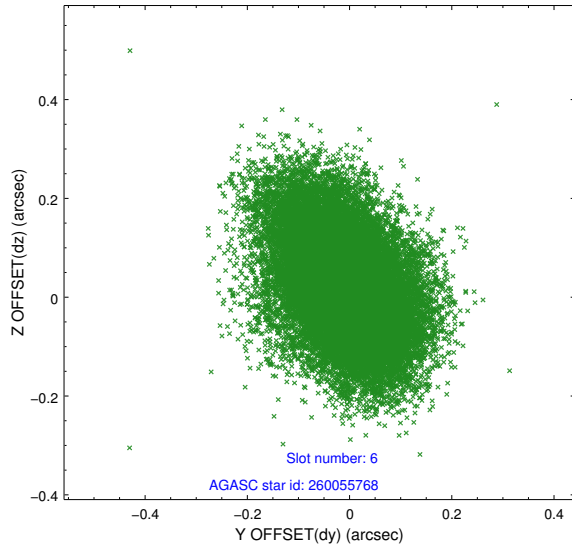
2.4.2 Slot 4



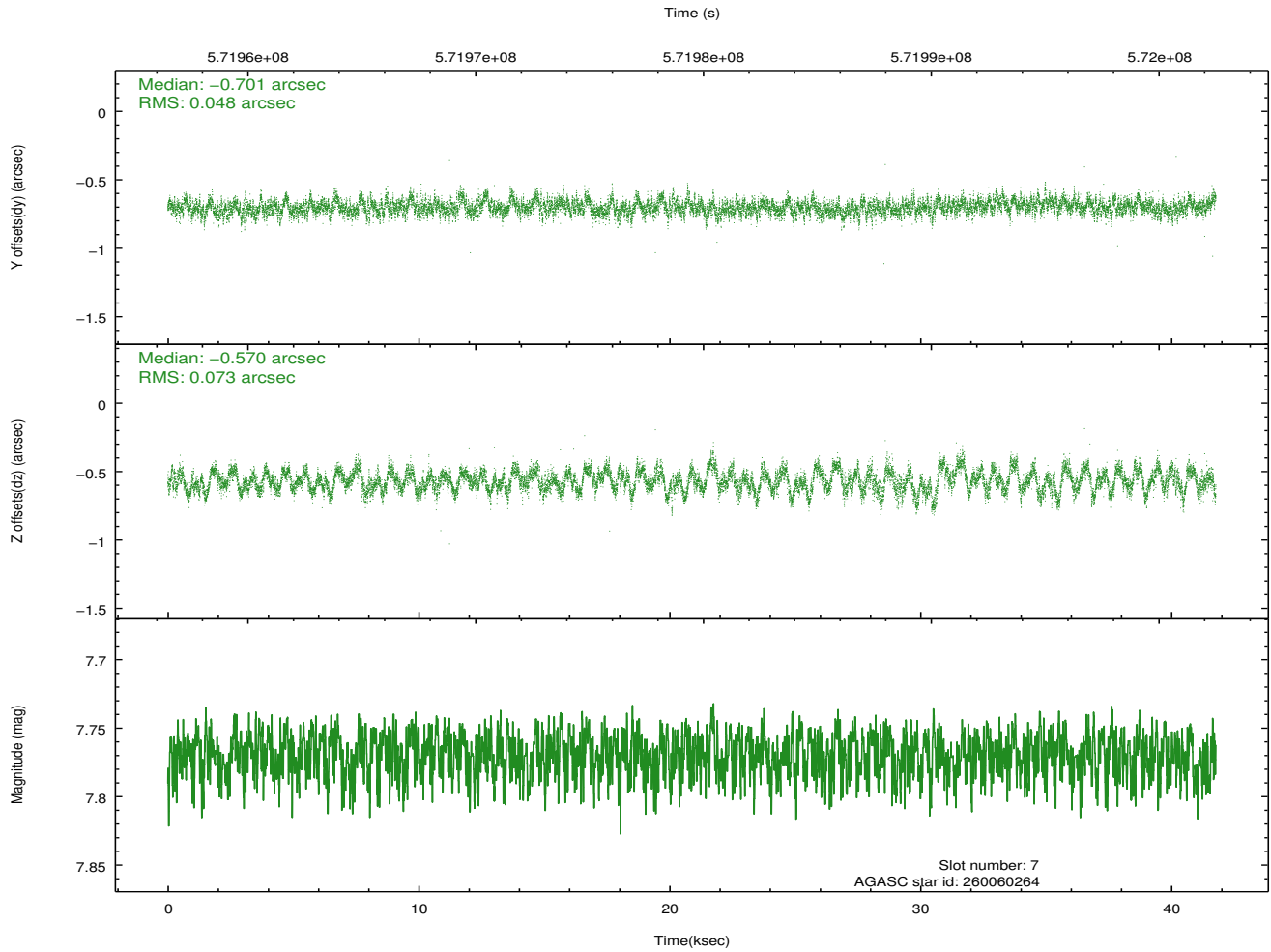
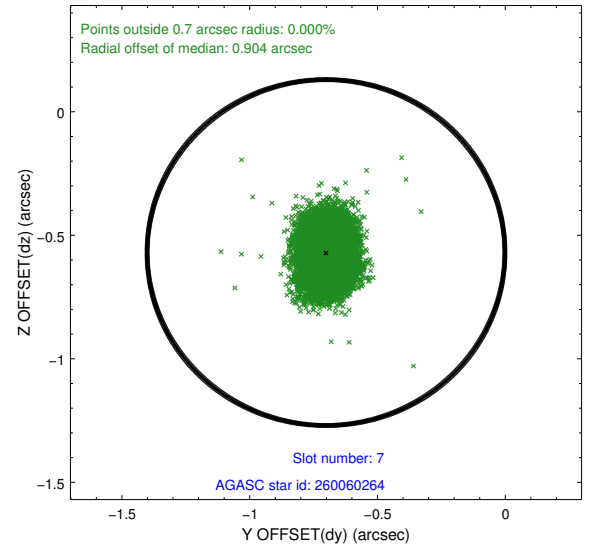
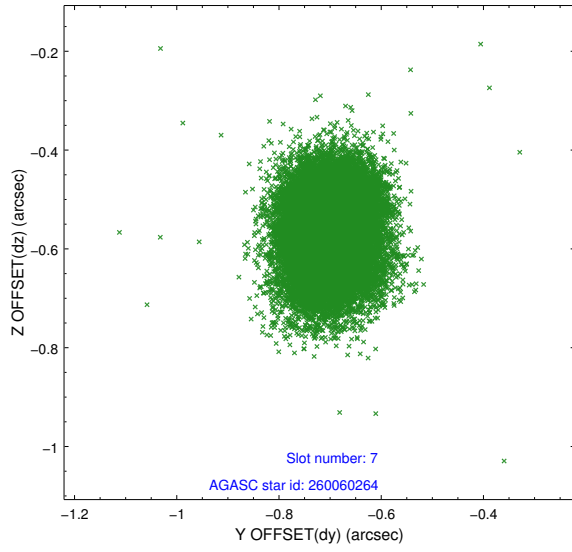
2.4.3 Slot 5



2.4.4 Slot 6

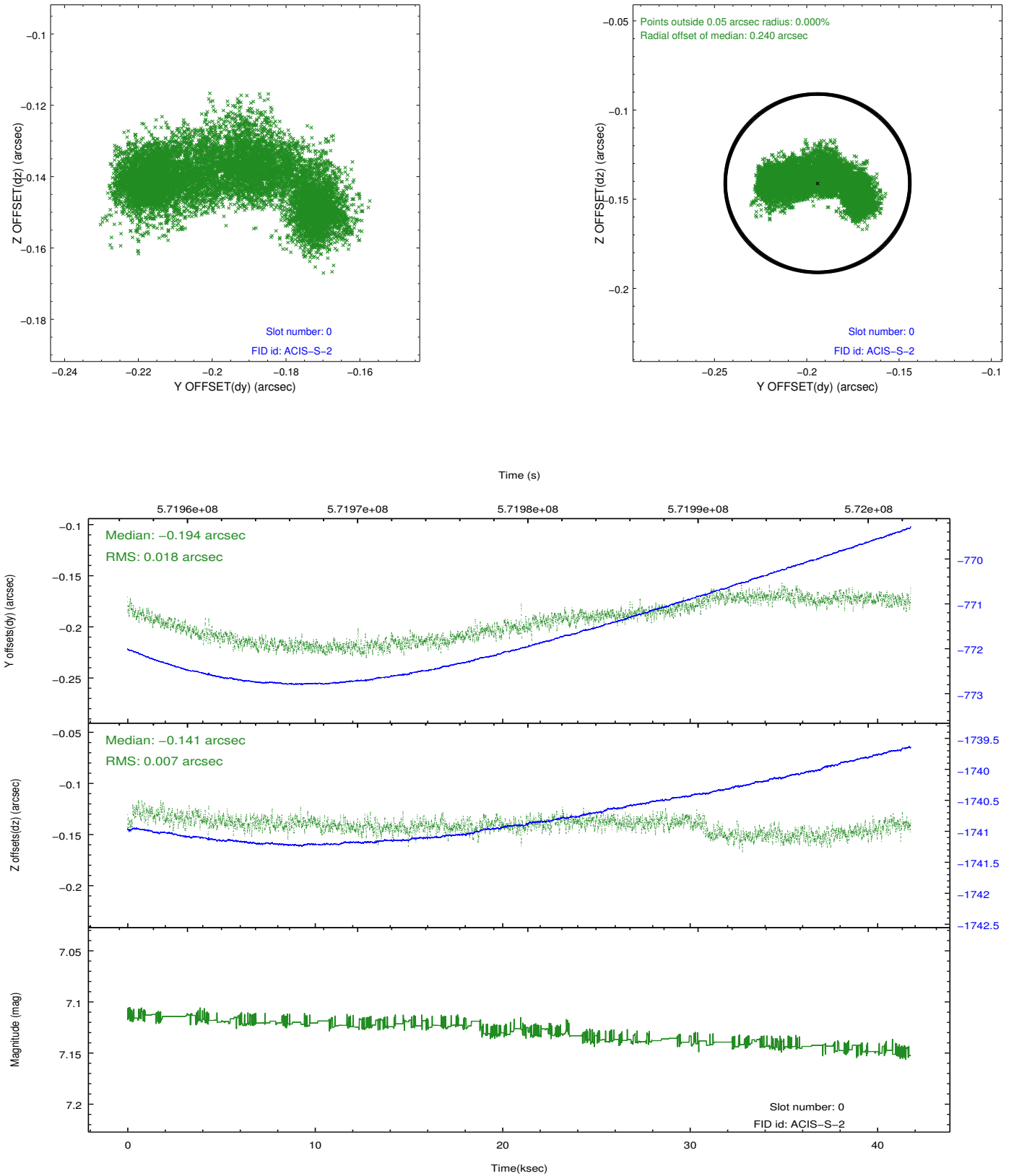


2.4.5 Slot 7

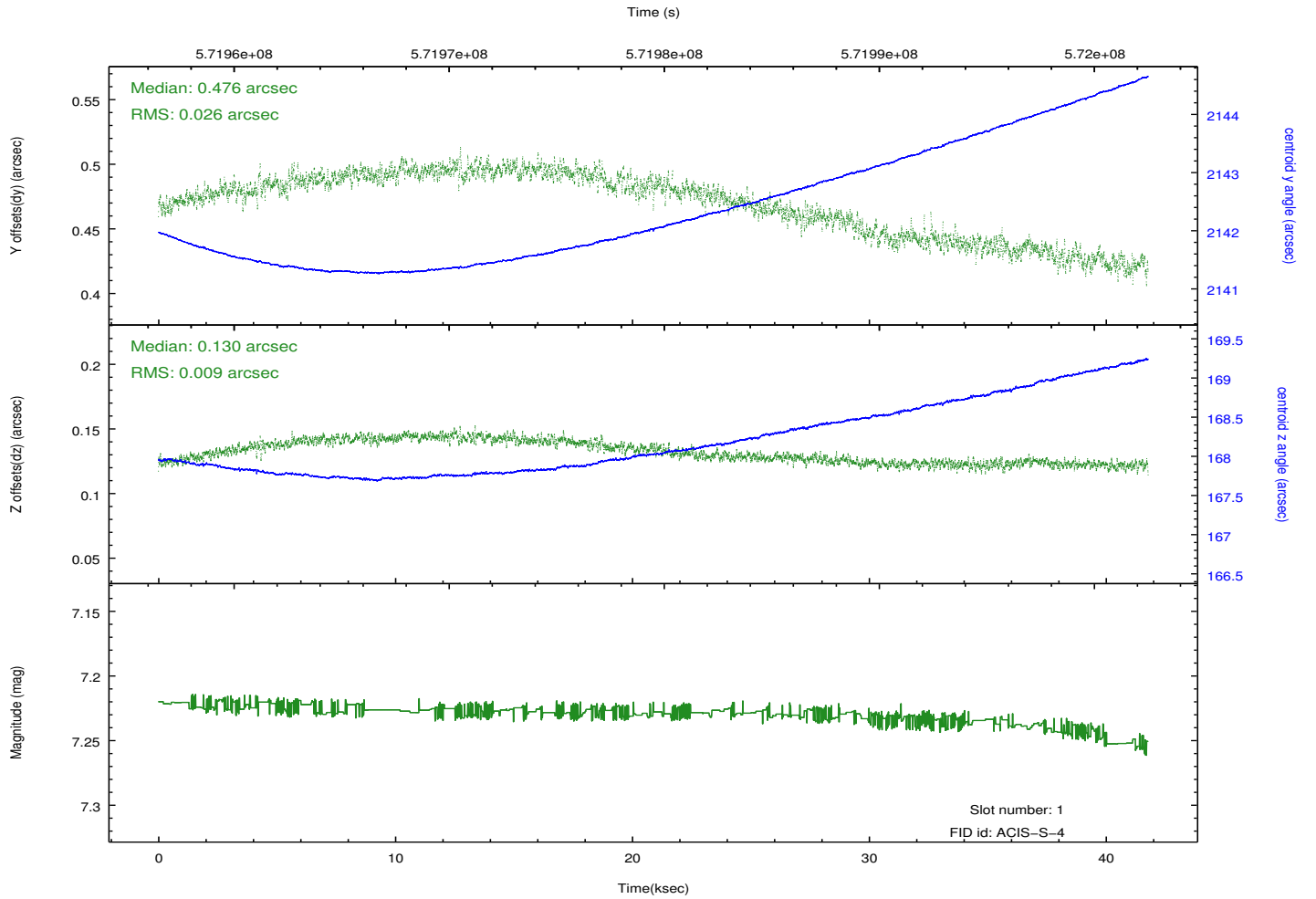
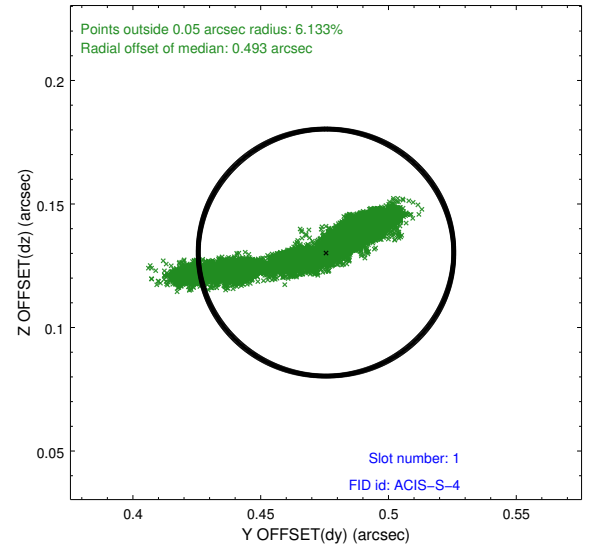
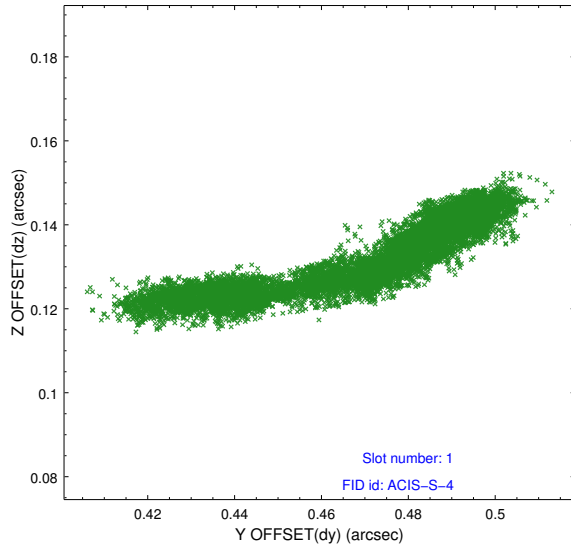


2.5 FID Slots

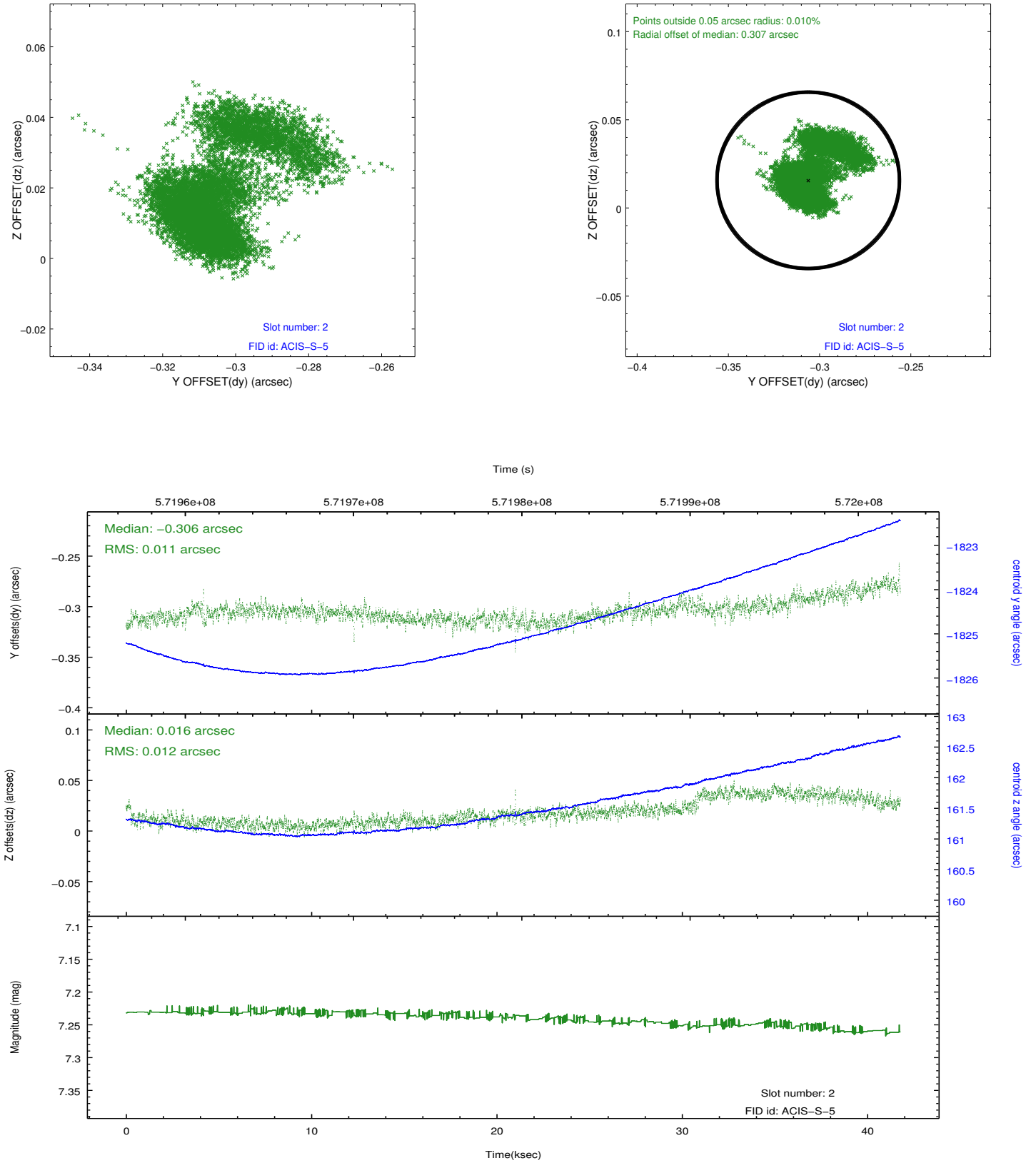
2.5.1 Slot 0



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)	2016.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.059500315905

A.2 Comments

Joint proposal with HST and NRAO.