

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12340 - L2 Version 2
Chandra X-Ray Center

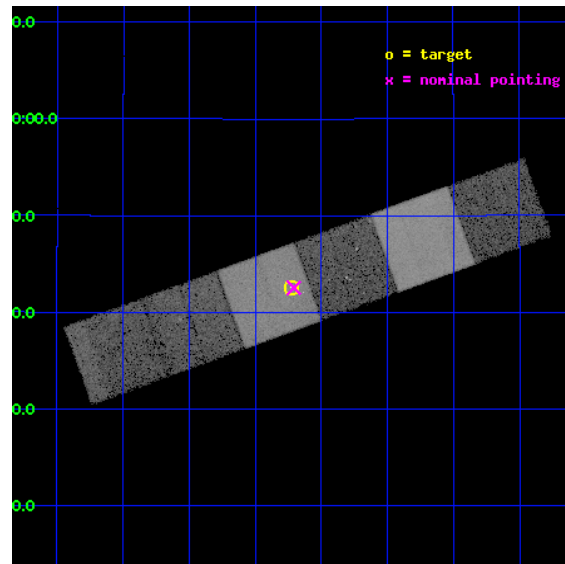
L2 Processing Date : Mar 18 2012

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1 Front

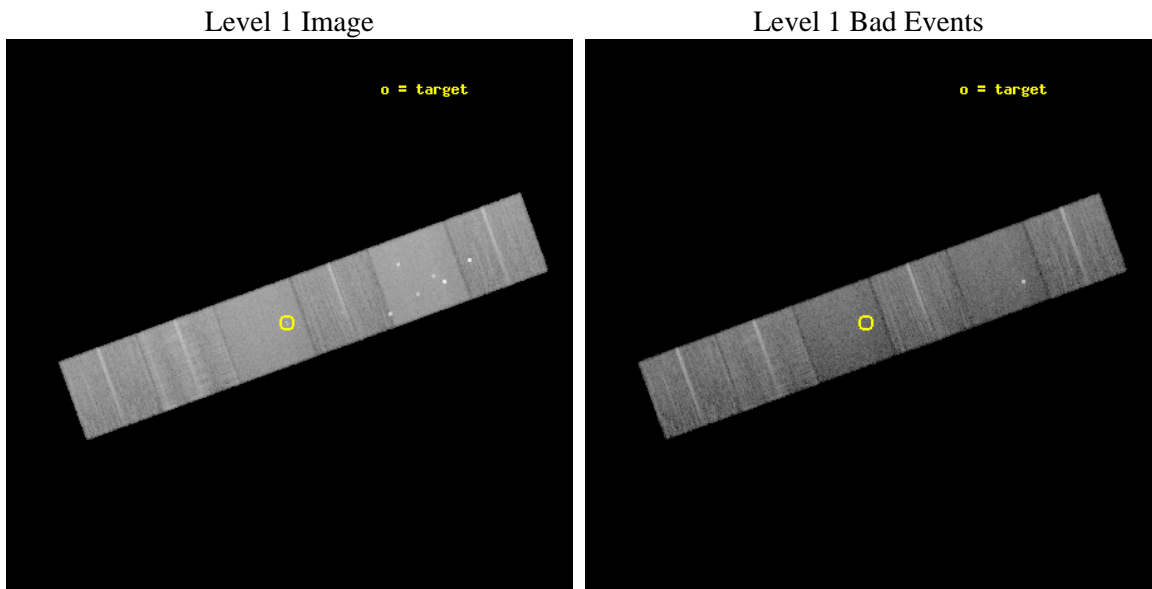
seq_num	200676	Sequence number
obs_id	12340	Observation id
title	Making planetary transits visible in X-rays	Proposal title
observer	Dr. Katja Poppenhaeager	Principal investigator
object	HD 189733	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	300.182083	Observer's specified target RA [deg]
dec_targ	22.710111	Observer's specified target Dec [deg]
ra_nom	300.17697496593	Nominal RA [deg]
dec_nom	22.70912528686	Nominal Dec [deg]
roll_nom	160.03900612208	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19490.645608544	Sum of GTIs [s]
livetime	19243.843317991	Livetime [s]
ontime4	19490.686648548	Sum of GTIs [s]
ontime5	19490.604568541	Sum of GTIs [s]
ontime6	19490.563528538	Sum of GTIs [s]
ontime7	19490.645608544	Sum of GTIs [s]
ontime8	19490.522488534	Sum of GTIs [s]
ontime9	19487.240428329	Sum of GTIs [s]
l2events	206898	Number of level 2 events



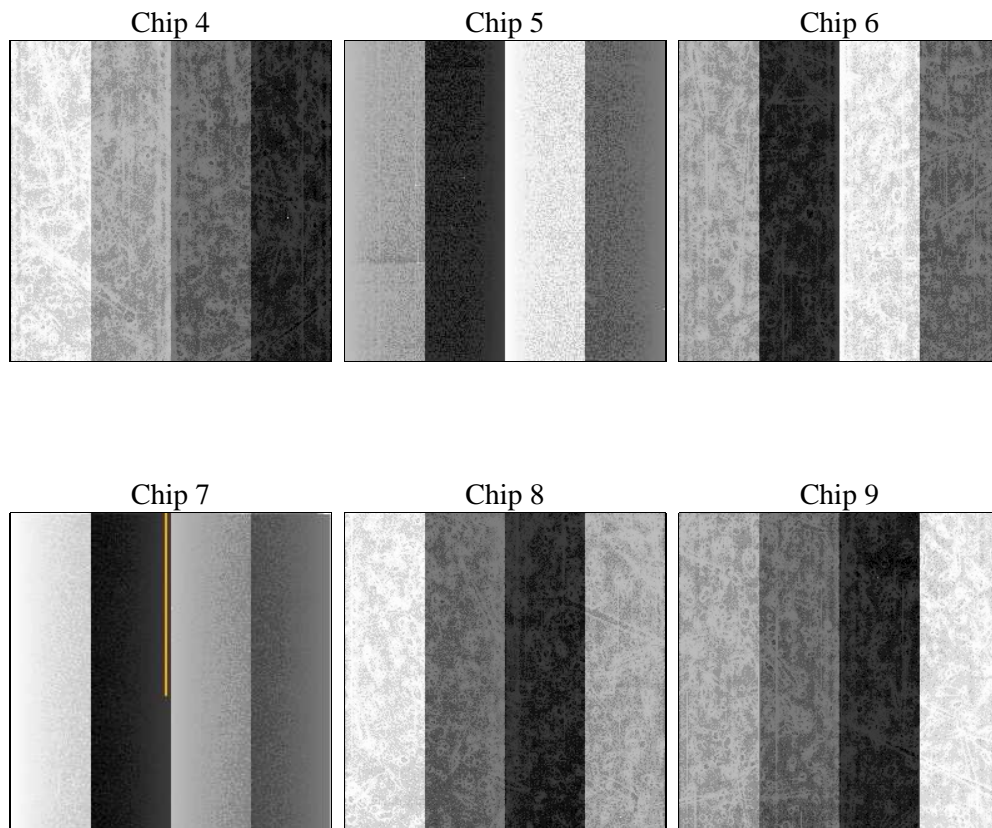
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19440.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19490.645608544	Sum of GTIs [s]
caldsver	4.4.8	 	ontime4	19490.686648548	Sum of GTIs [s]
date	2012-03-18T18:59:37	Date and time of file creation	ontime5	19490.604568541	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	19490.563528538	Sum of GTIs [s]
			ontime7	19490.645608544	Sum of GTIs [s]
			ontime8	19490.522488534	Sum of GTIs [s]
			ontime9	19487.240428329	Sum of GTIs [s]
			l1events	892927	Number of level 1 events

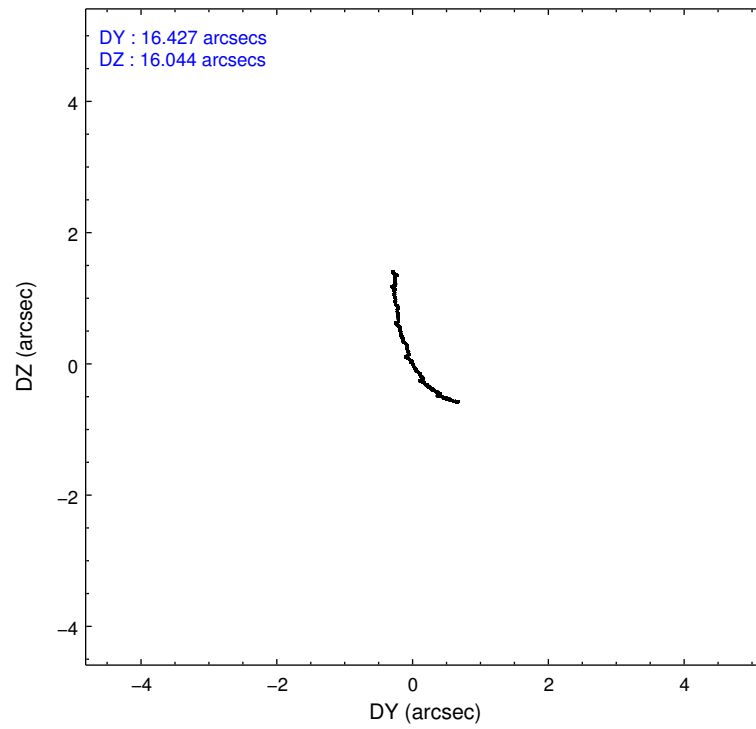
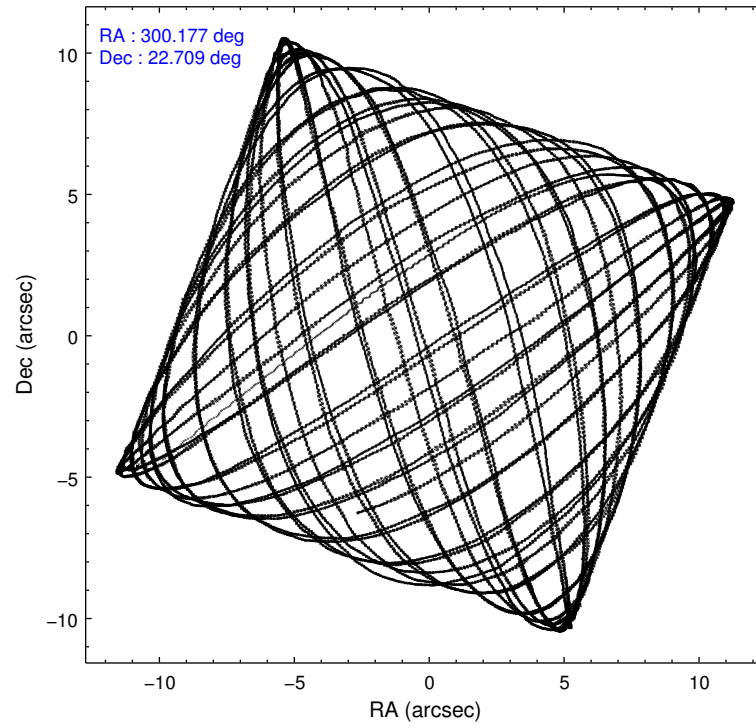
2.1.4 Events

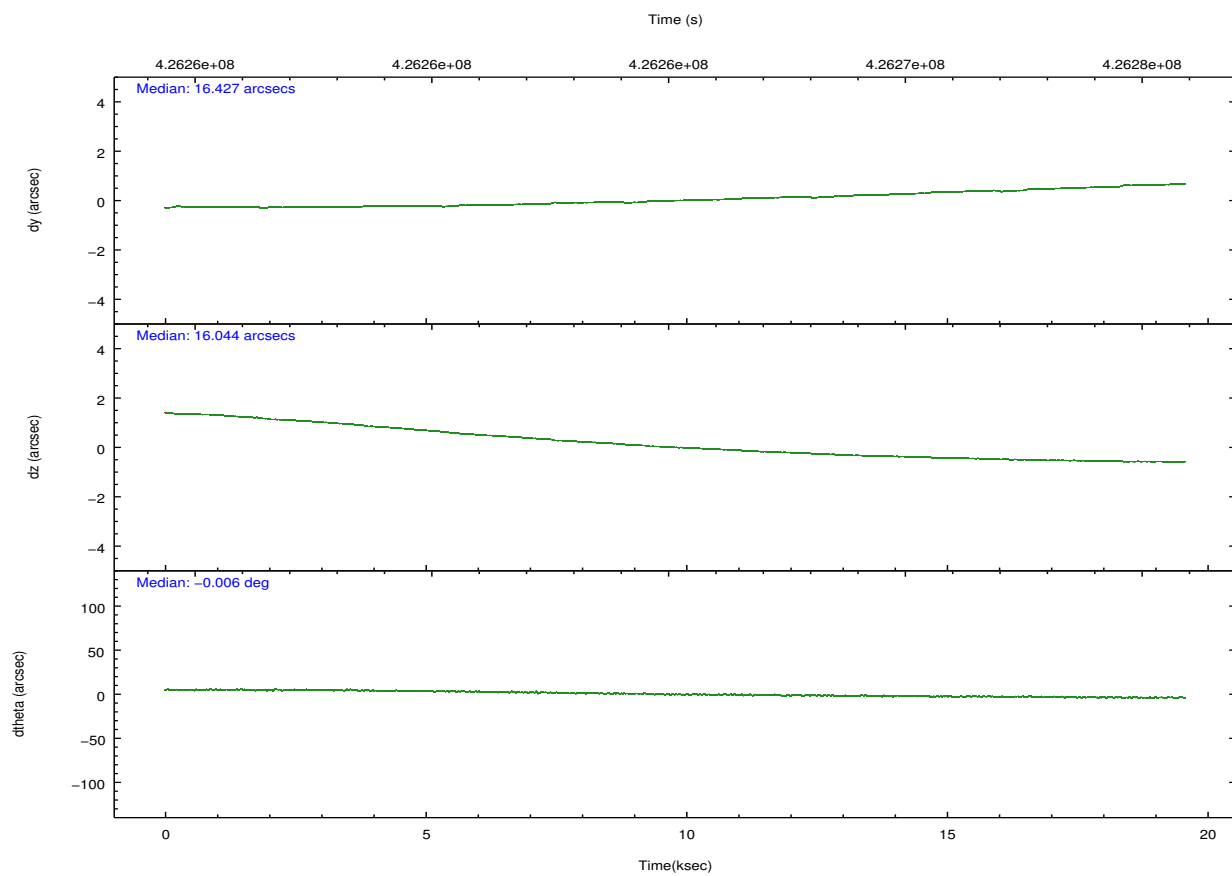
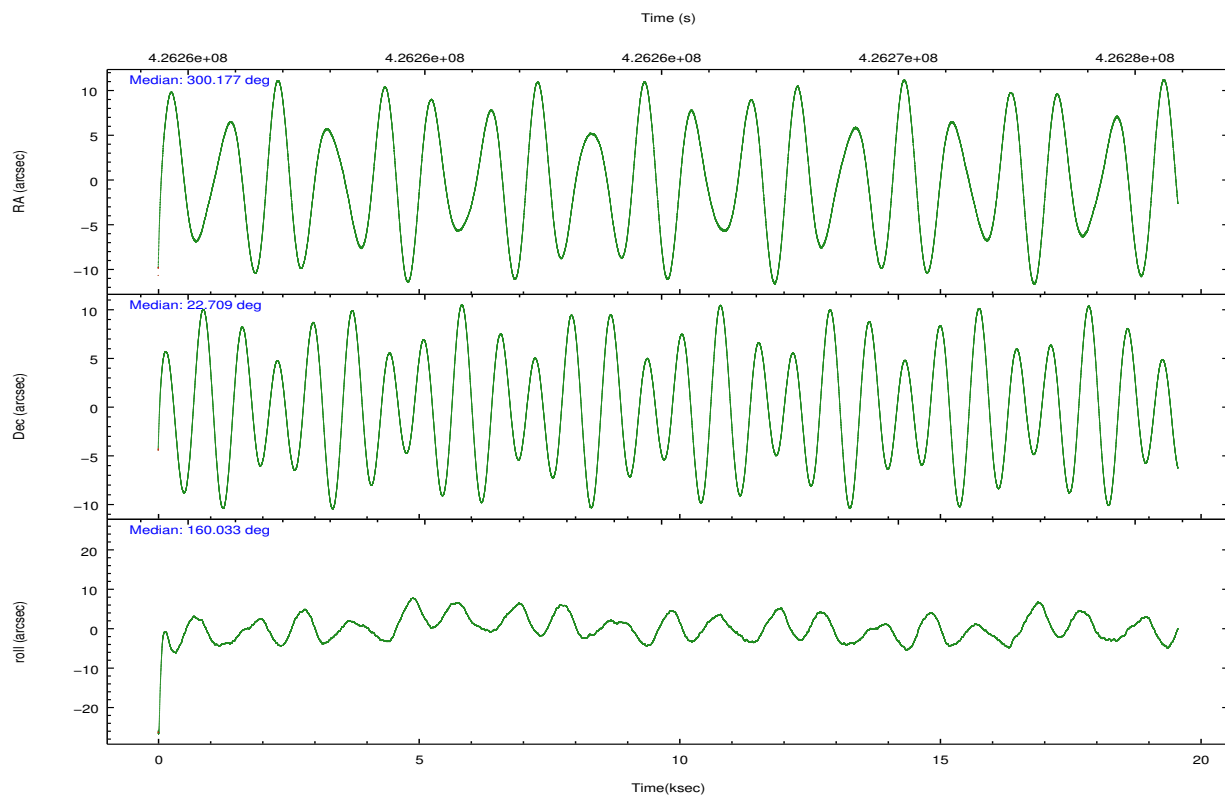
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	138175	195539	125030	155829	158828	119526	grade 0 events	10046	11713	5196	6672	12315	5501
rejected events	118691	97752	110554	85494	117208	104478		7%	5%	4%	4%	7%	4%
rejected %	85%	49%	88%	54%	73%	87%	grade 1 events	167	461	88	185	154	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	3714	30424	3207	14644	9569	3331
								2%	15%	2%	9%	6%	2%
							grade 3 events	1632	3494	1507	6298	4557	1512
								1%	1%	1%	4%	2%	1%
							grade 4 events	1523	3335	1462	6285	4178	1520
								1%	1%	1%	4%	2%	1%
							grade 5 events	5671	15186	5820	16304	8453	6318
								4%	7%	4%	10%	5%	5%
							grade 6 events	2574	48834	3107	36450	11005	3186
								1%	24%	2%	23%	6%	2%
							grade 7 events	112848	82092	104643	68991	108597	98061
								81%	41%	83%	44%	68%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	300.206055	300.1769749659296	CCD I2 on	N	N
[deg] Pointing Dec	22.714264	22.7091252868602	CCD I3 on	N	N
[deg] Pointing Roll	159.871170	160.039006122079	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
Phase constraints	Y	Y	CCD S5 on	O2	Y
[d] Phase period	2.218573	2.218573	Number of optional ACIS chips dropped	0	0
[d] Phase epoch (MJD)	55563.490403	55563.490403	On-chip summing requested	N	N
Phase start	0.947800	0.947800	Subarray requested	NONE	NONE
Phase end	0.052200	0.052200	Alternating exposures requested	N	N
Phase start error	0.010400	0.010400	[s] Primary exposure time	0.000000	3.2
Phase end error	0.010400	0.010400			
[s] Observation start time (MET)	426255477.184000	426254277.15372			
Observation start date	2011-07-05T12:16:51	2011-07-05T11:57:57			
[s] Observation end time (MET)	426274917.184000	426276364.87987			
Observation end date	2011-07-05T17:40:51	2011-07-05T18:06:04			
Read mode	TIMED	TIMED			

2.3 Aspect



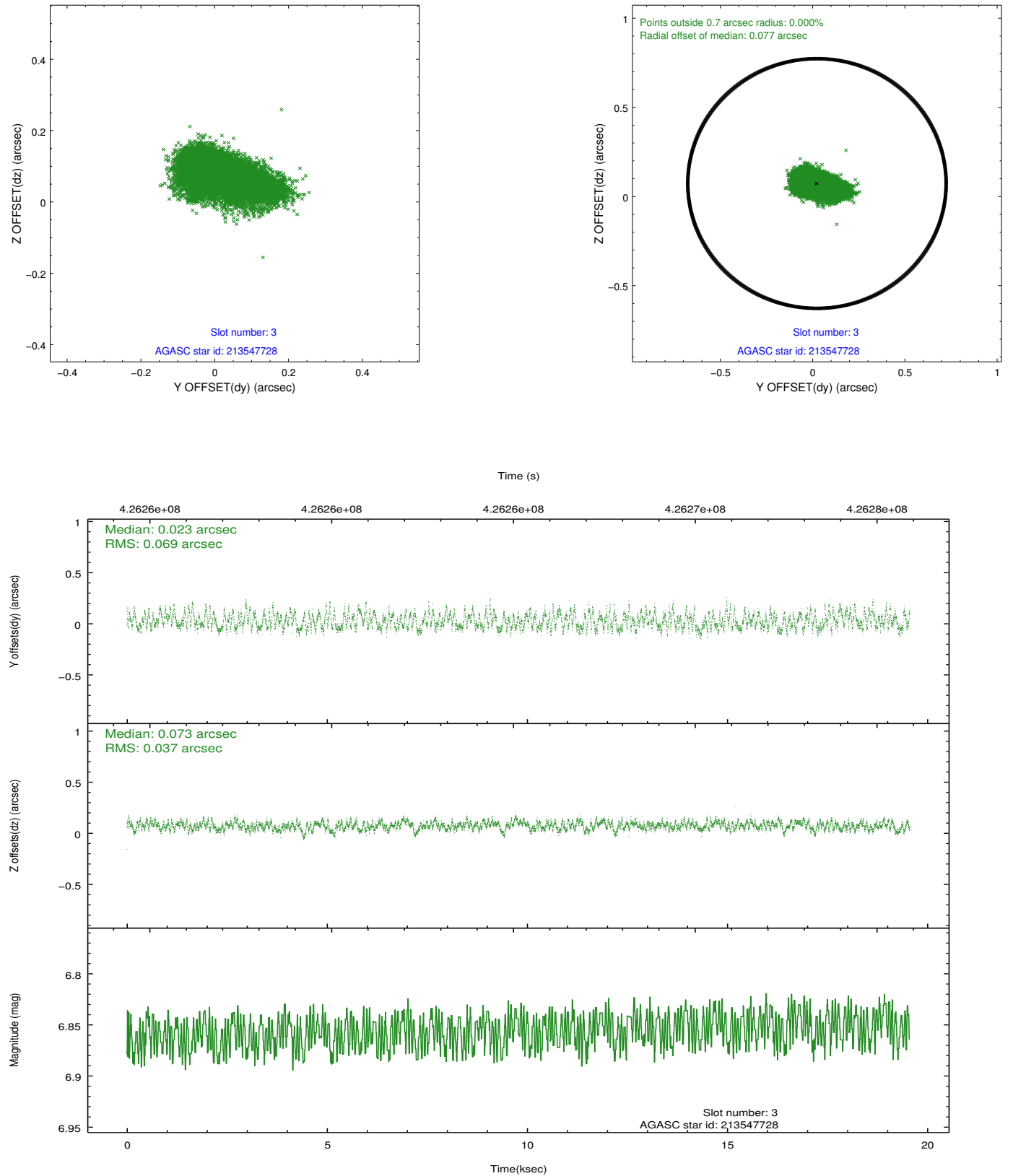


Slot Statistics

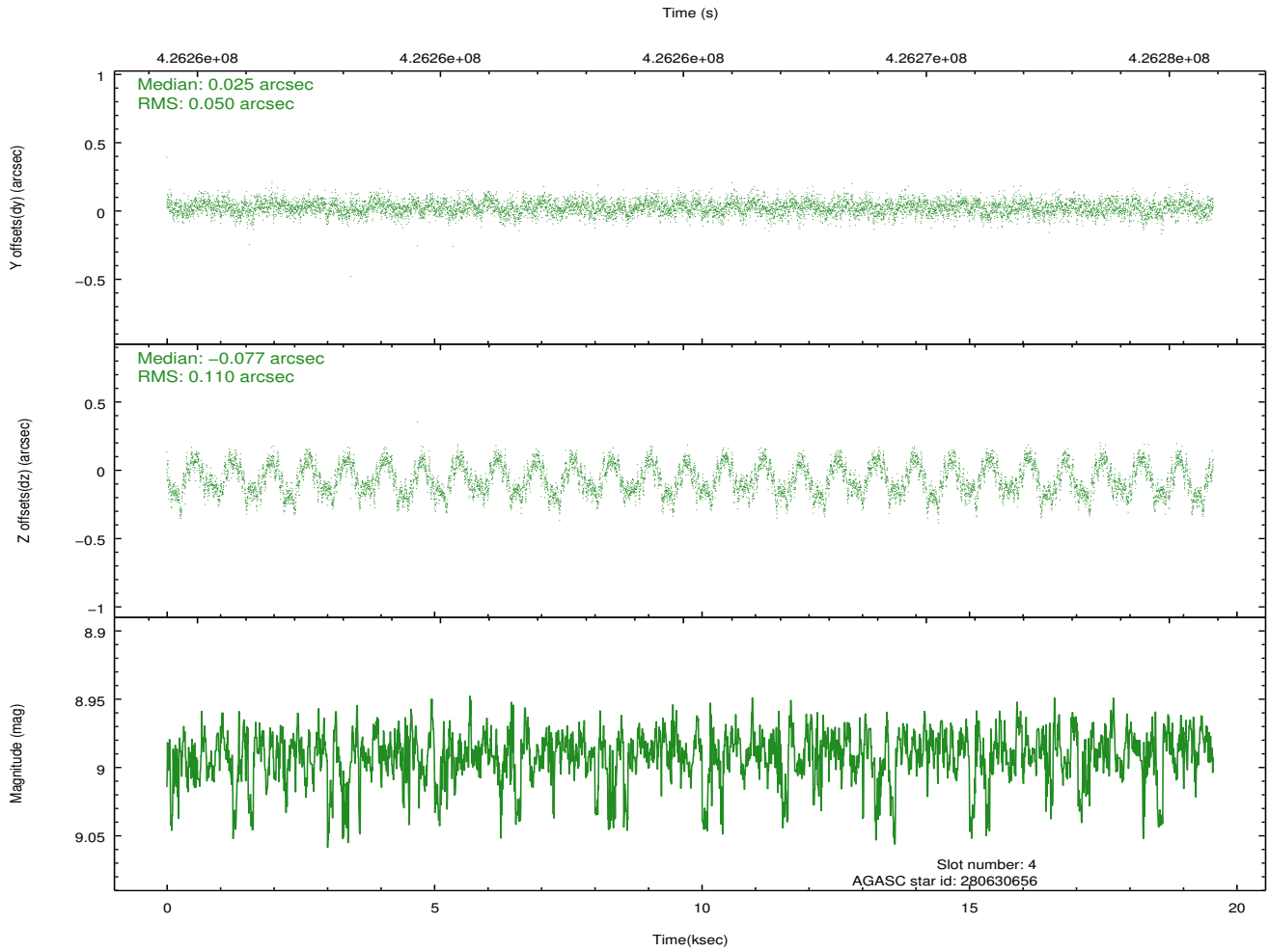
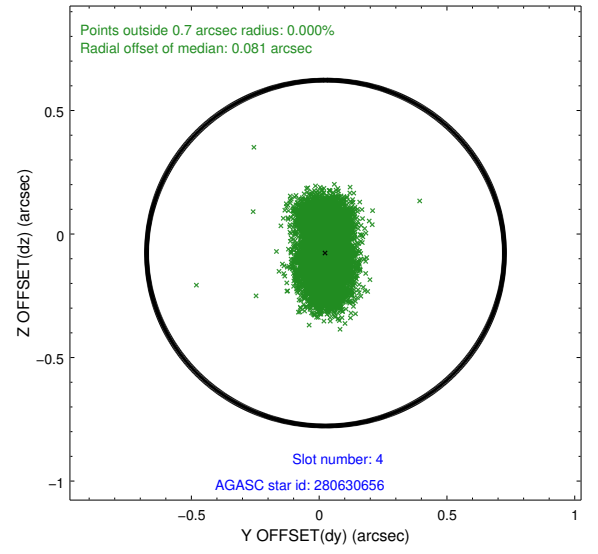
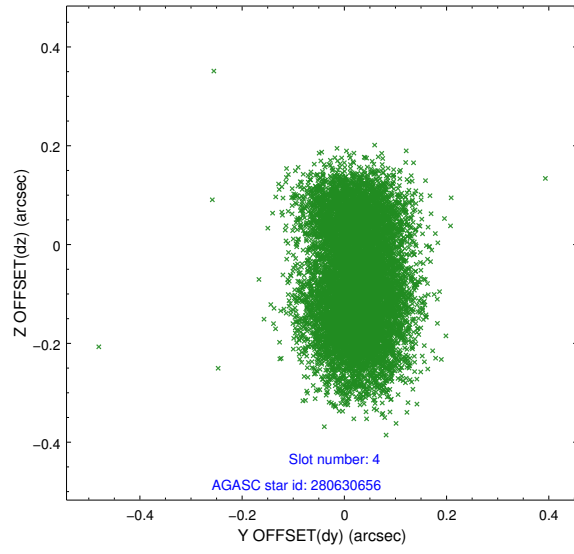
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	4772	0.078	-0.089	0.015	0.030	0.000000	0.000000	926.64	-1733.33
1	FID	ACIS-S-5	7.00	4771	-0.096	0.053	0.012	0.026	0.000000	0.000000	-1822.45	164.13
2	FID	ACIS-S-6	7.10	4772	-0.005	0.047	0.013	0.048	0.000000	0.000000	391.86	808.32
3	GUIDE	213547728	6.86	9544	0.023	0.073	0.083	0.136	300.592091	22.151462	-1904.87	1458.13
4	GUIDE	280630656	8.99	9532	0.025	-0.077	0.133	0.204	300.025585	22.704884	550.68	238.22
5	GUIDE	280632896	9.05	9542	-0.307	-0.222	0.097	0.161	299.532468	22.850727	2269.12	303.28
6	GUIDE	280636008	9.59	9502	0.111	0.227	0.131	0.216	299.863390	23.439311	1962.51	-2061.83
7	GUIDE	280640784	9.10	9527	0.148	-0.002	0.101	0.160	300.454026	22.565622	-957.10	218.03

2.4 Star Slots

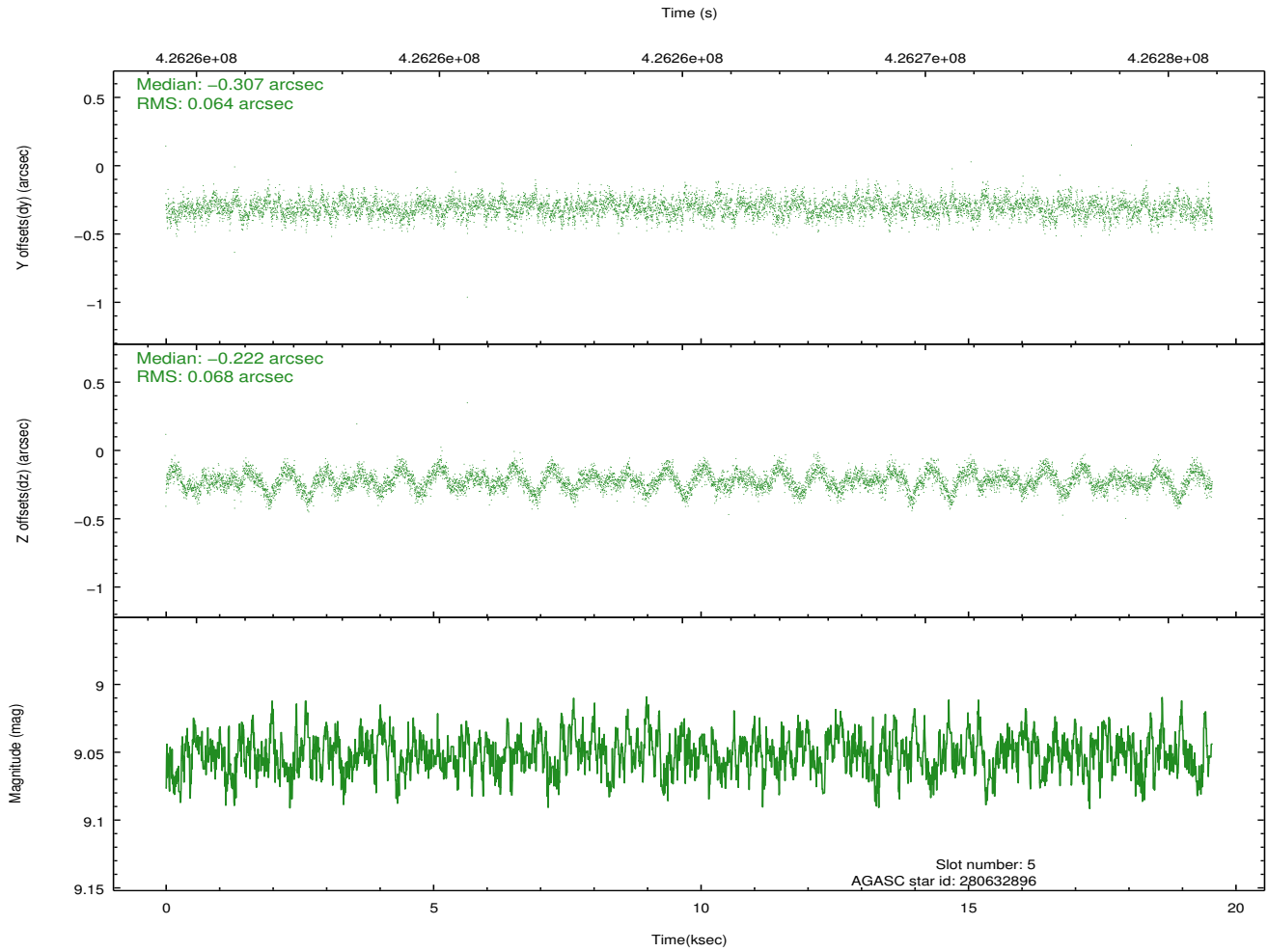
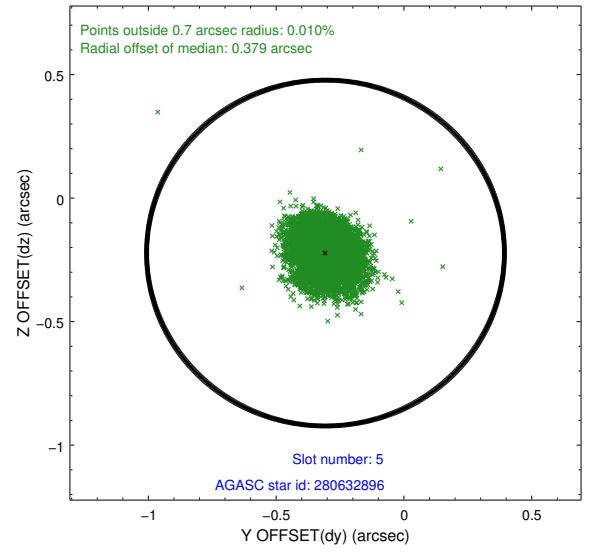
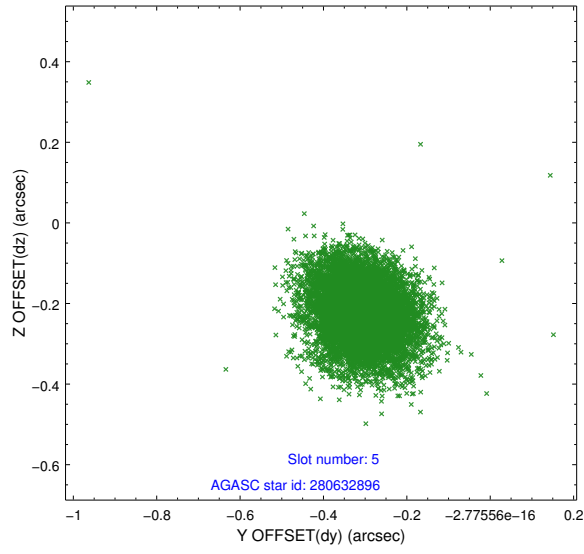
2.4.1 Slot 3



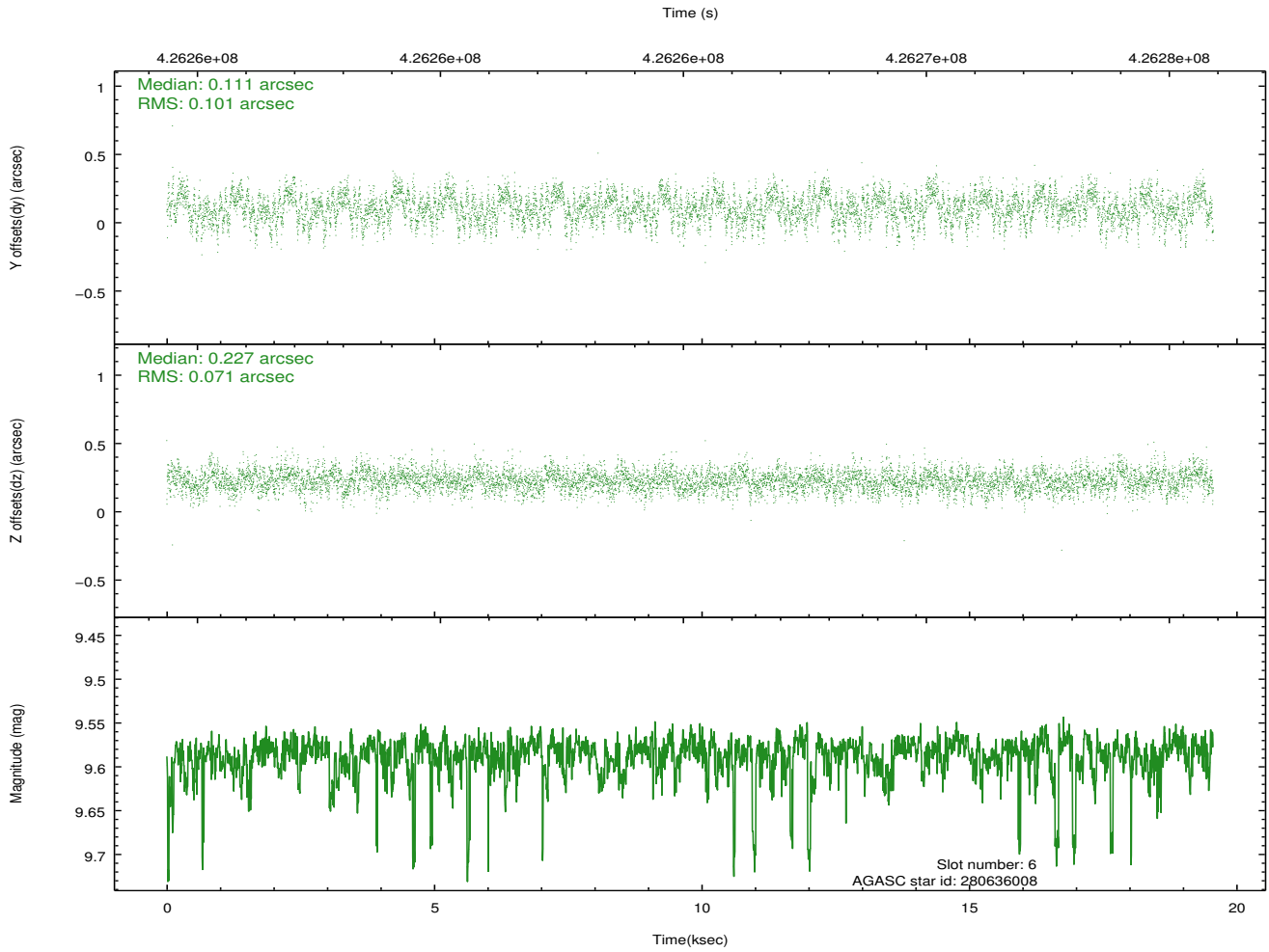
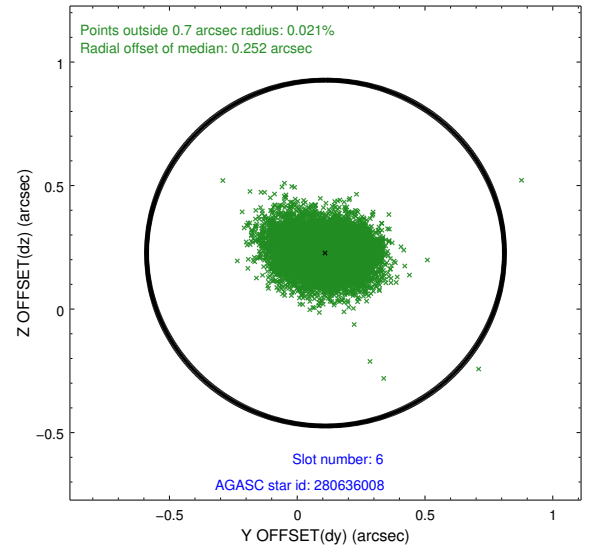
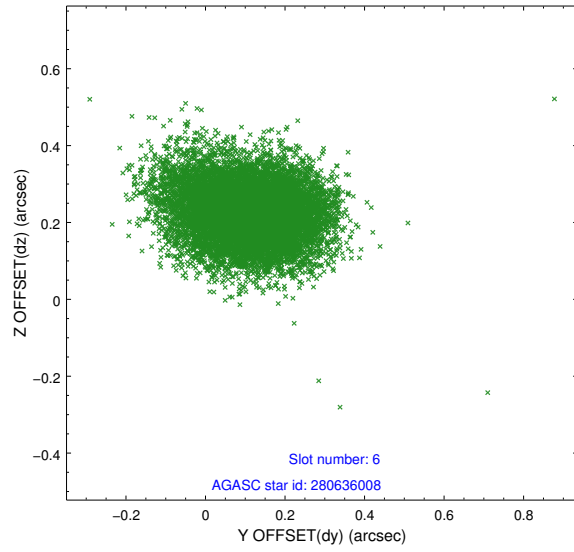
2.4.2 Slot 4



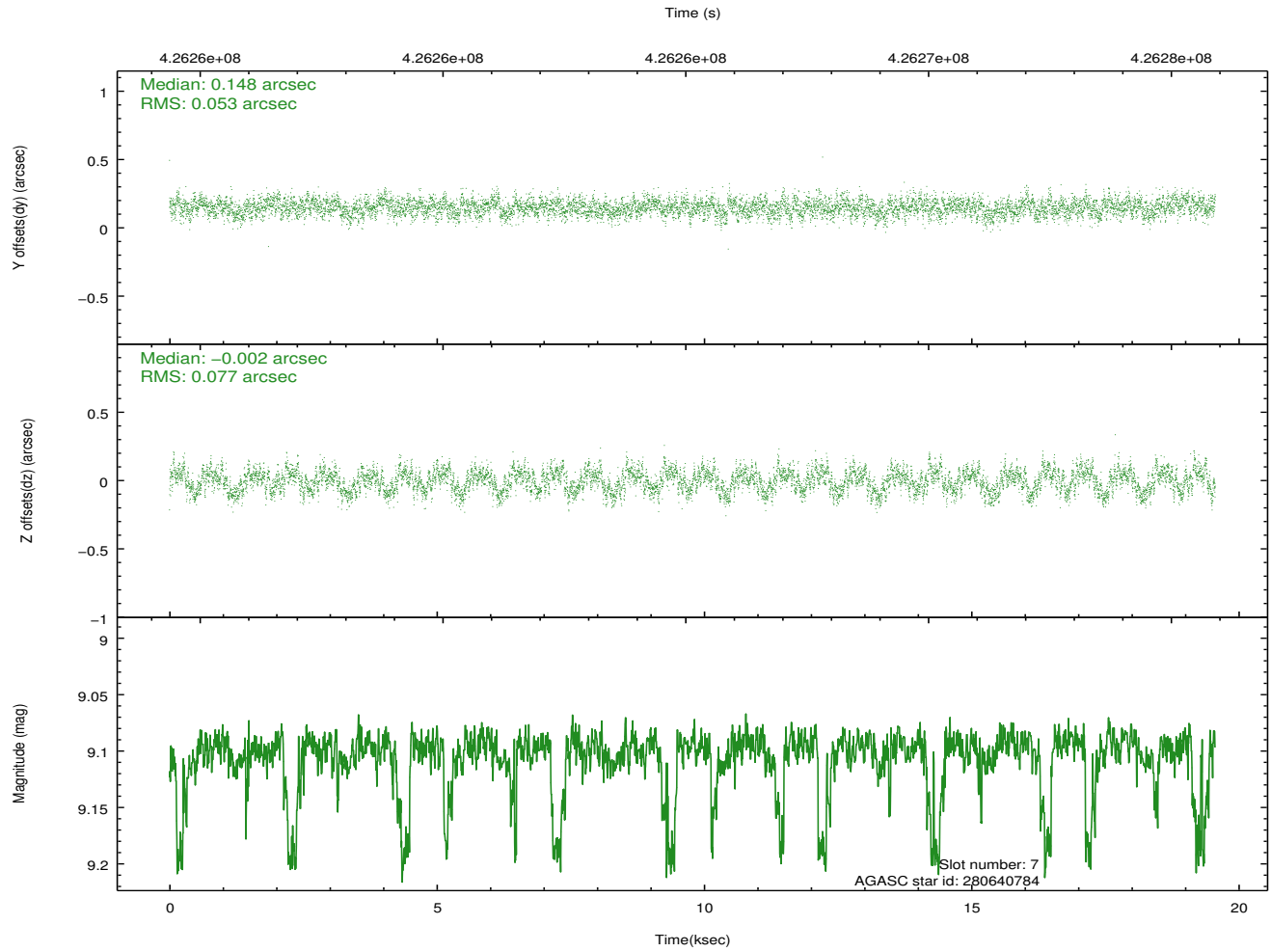
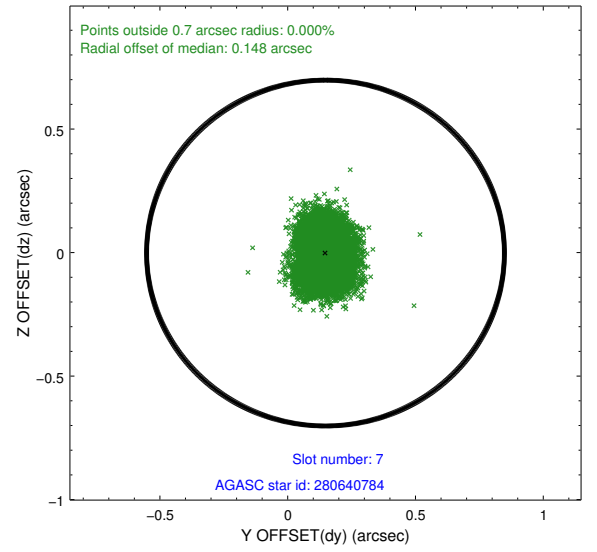
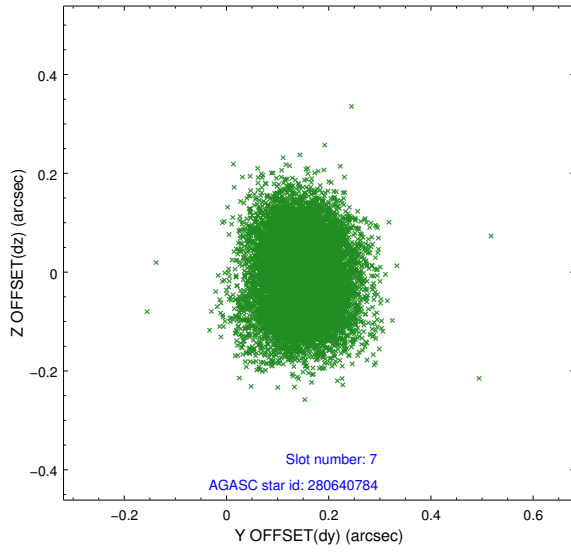
2.4.3 Slot 5



2.4.4 Slot 6

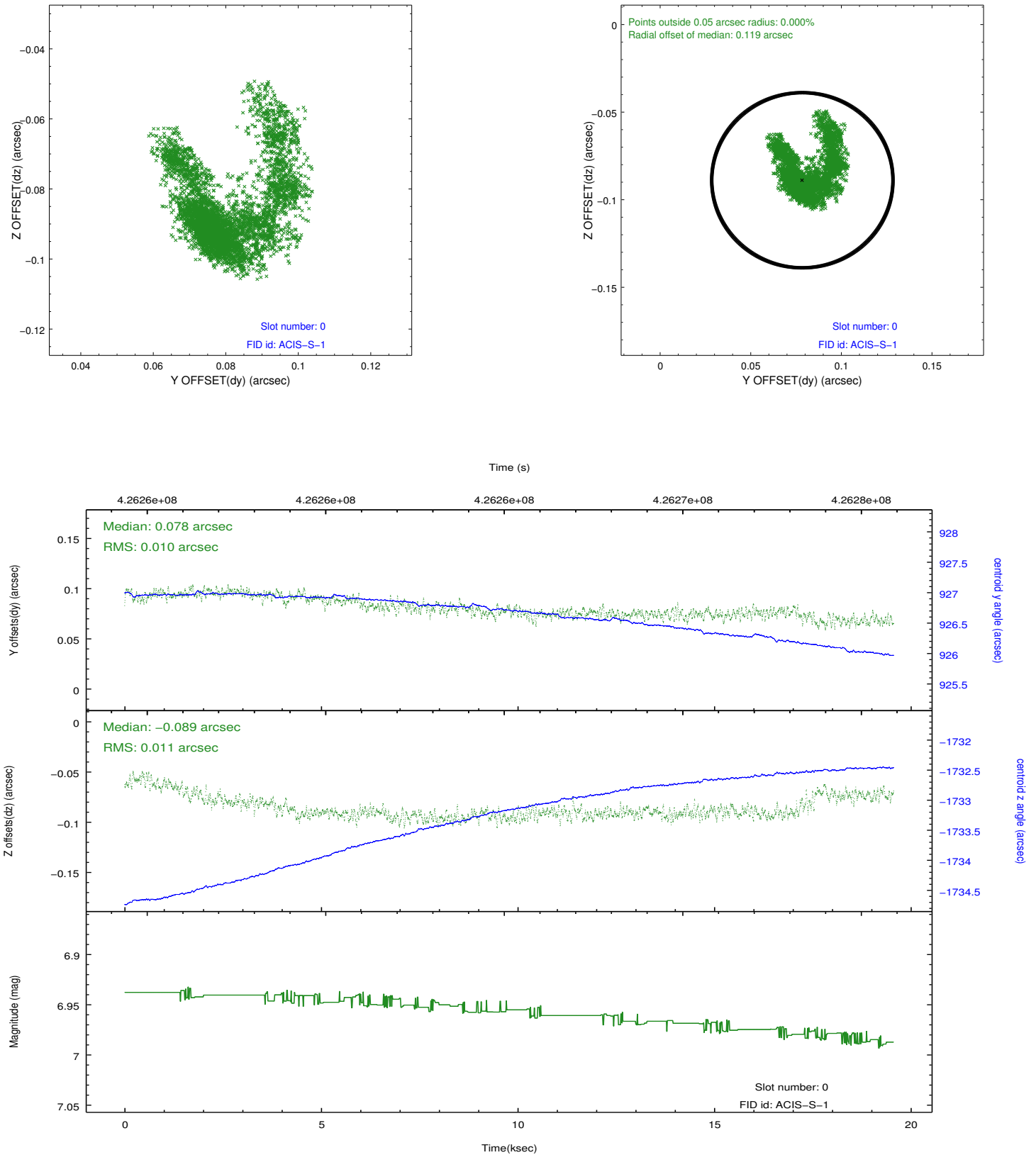


2.4.5 Slot 7

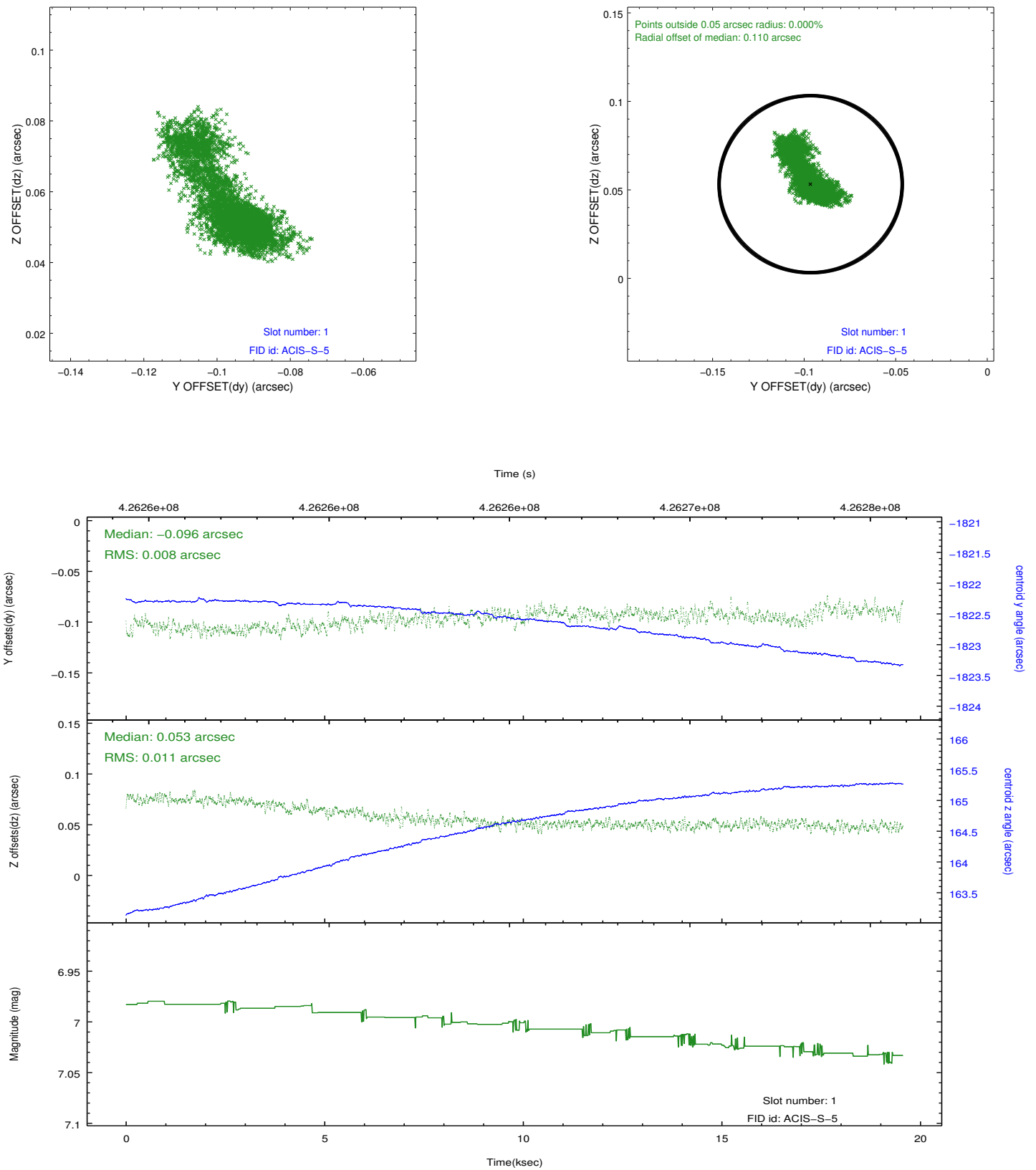


2.5 FID Slots

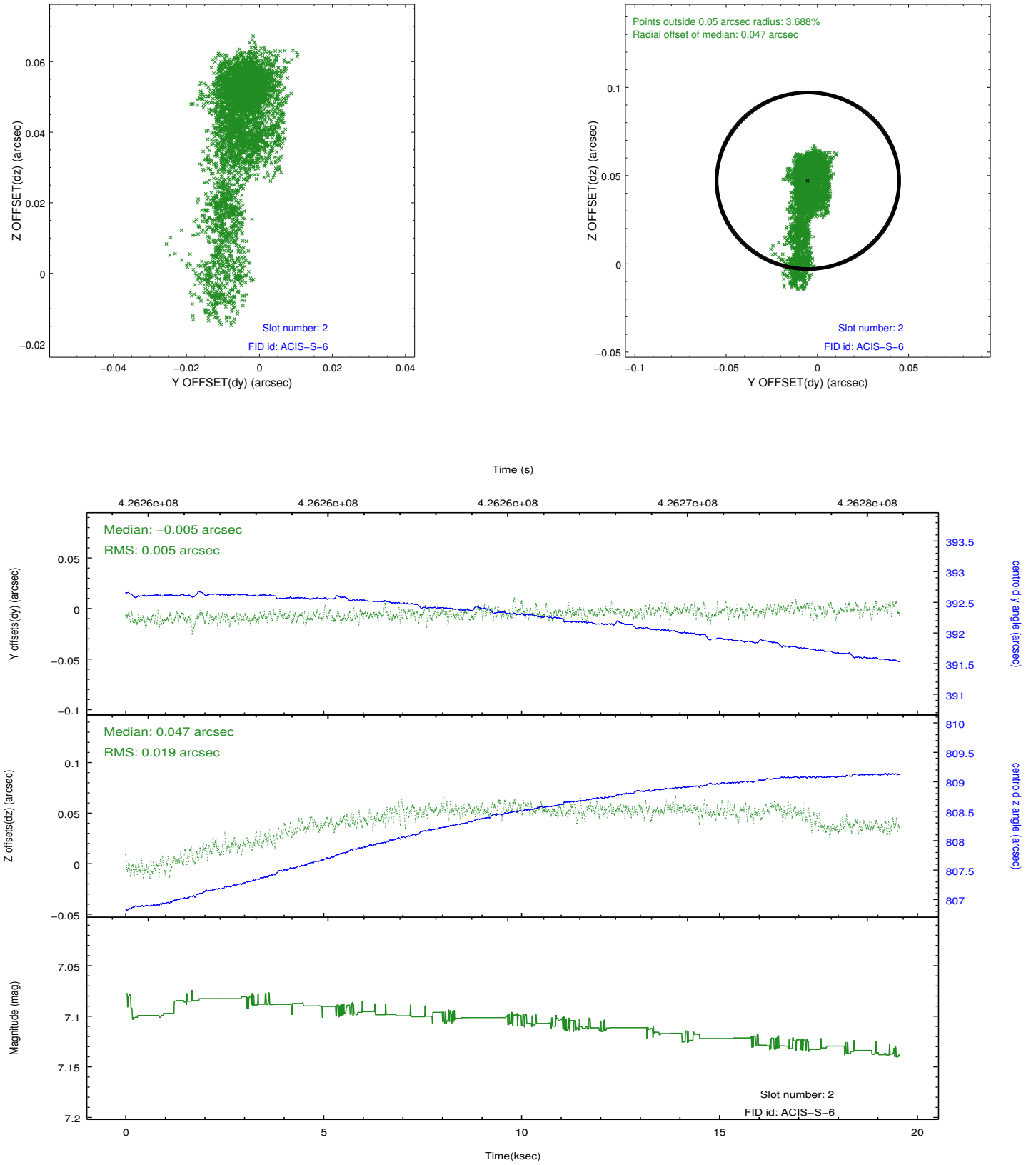
2.5.1 Slot 0



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)	2012.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.490645606697

A.2 Comments

Phase constraint met.