

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20812 - L2 Version 1
Chandra X-Ray Center

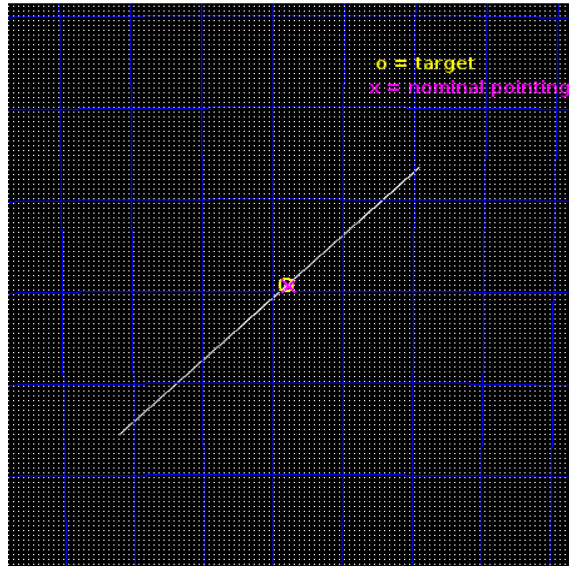
L2 Processing Date : Oct 20 2017

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1 Front

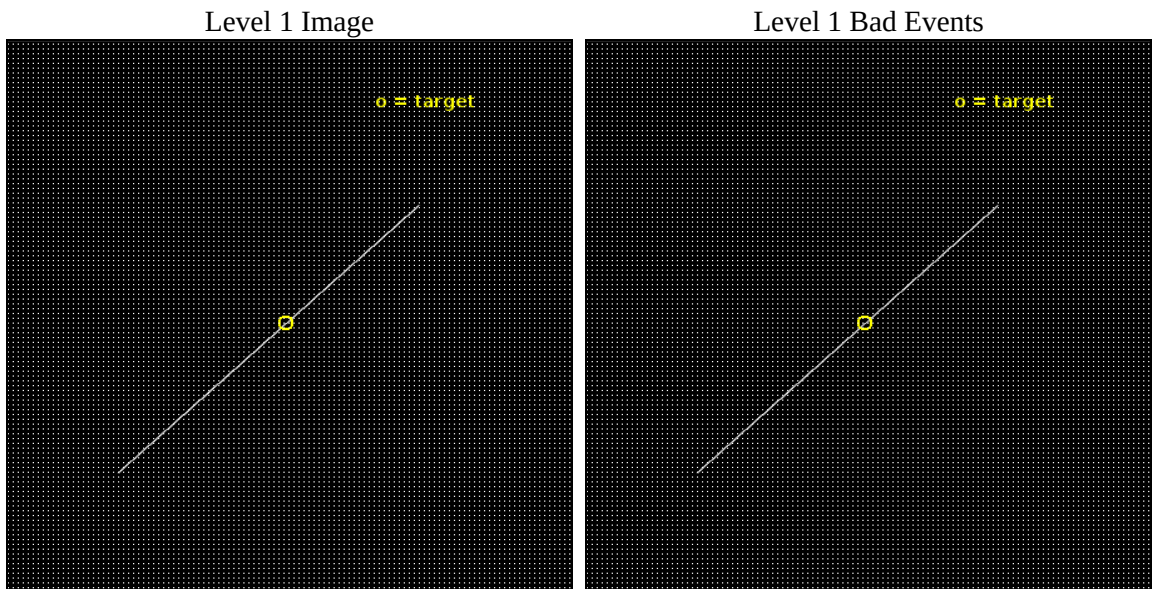
seq_num	502672	Sequence number
obs_id	20812	Observation id
title	Search for the most energetic radio-quiet pulsar	Proposal title
observer	Martino Marelli	Principal investigator
object	CXOU J111148.6-603926	Source name
ra_targ	167.9525	Observer's specified target RA [deg]
dec_targ	-60.657111	Observer's specified target Dec [deg]
ra_nom	167.93976061859	Nominal RA [deg]
dec_nom	-60.657544321416	Nominal Dec [deg]
roll_nom	137.14552215772	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33528.0	Sum of GTIs [s]
livetime	33397.03125	Livetime [s]
ontime5	33528.0	Sum of GTIs [s]
ontime6	33528.0	Sum of GTIs [s]
ontime7	33528.0	Sum of GTIs [s]
ontime8	33528.0	Sum of GTIs [s]
ontime9	33528.0	Sum of GTIs [s]
l2events	441928	Number of level 2 events



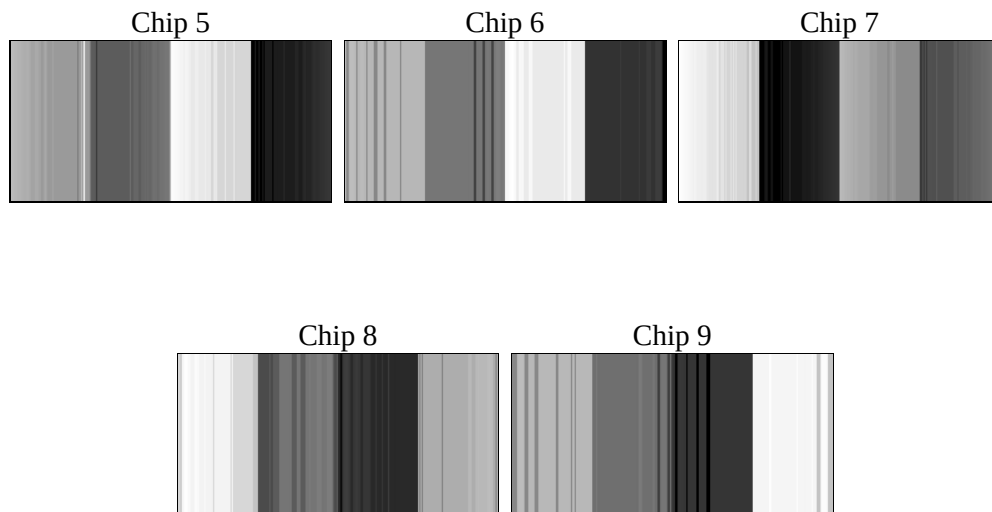
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33432.177000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	33528.0	Sum of GTIs [s]
caldsver	4.7.6	 	ontime5	33528.0	Sum of GTIs [s]
date	2017-10-20T18:56:39	Date and time of file creation	ontime6	33528.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	33528.0	Sum of GTIs [s]
			ontime8	33528.0	Sum of GTIs [s]
			ontime9	33528.0	Sum of GTIs [s]
			l1events	2485703	Number of level 1 events

2.1.4 Events

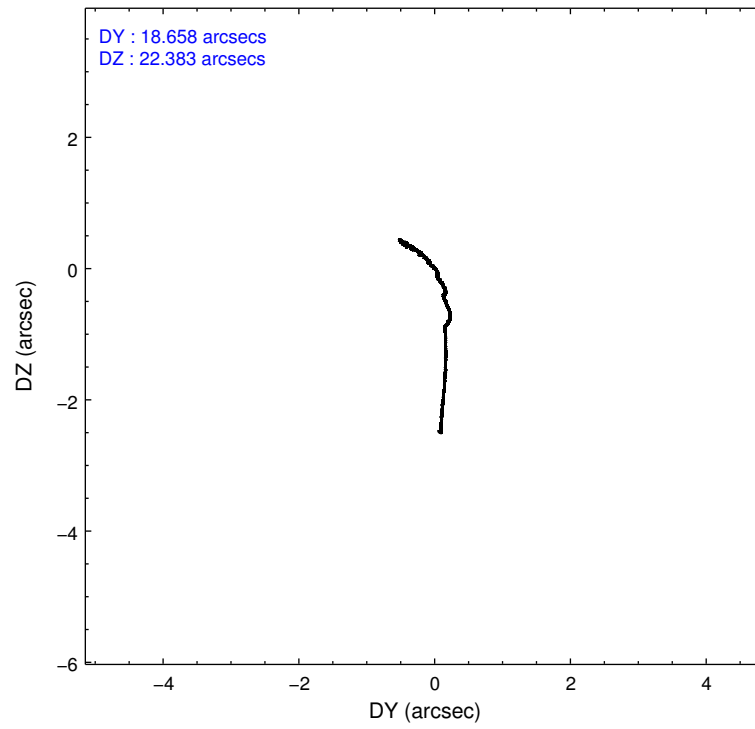
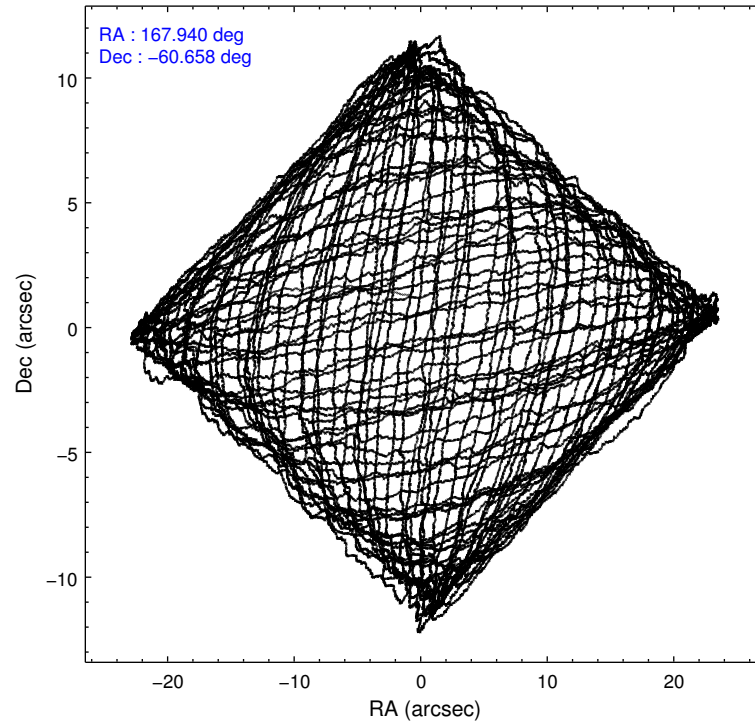
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	531004	401555	455416	658385	439343
rejected events	314926	358867	306684	544490	395928
rejected %	59%	89%	67%	82%	90%

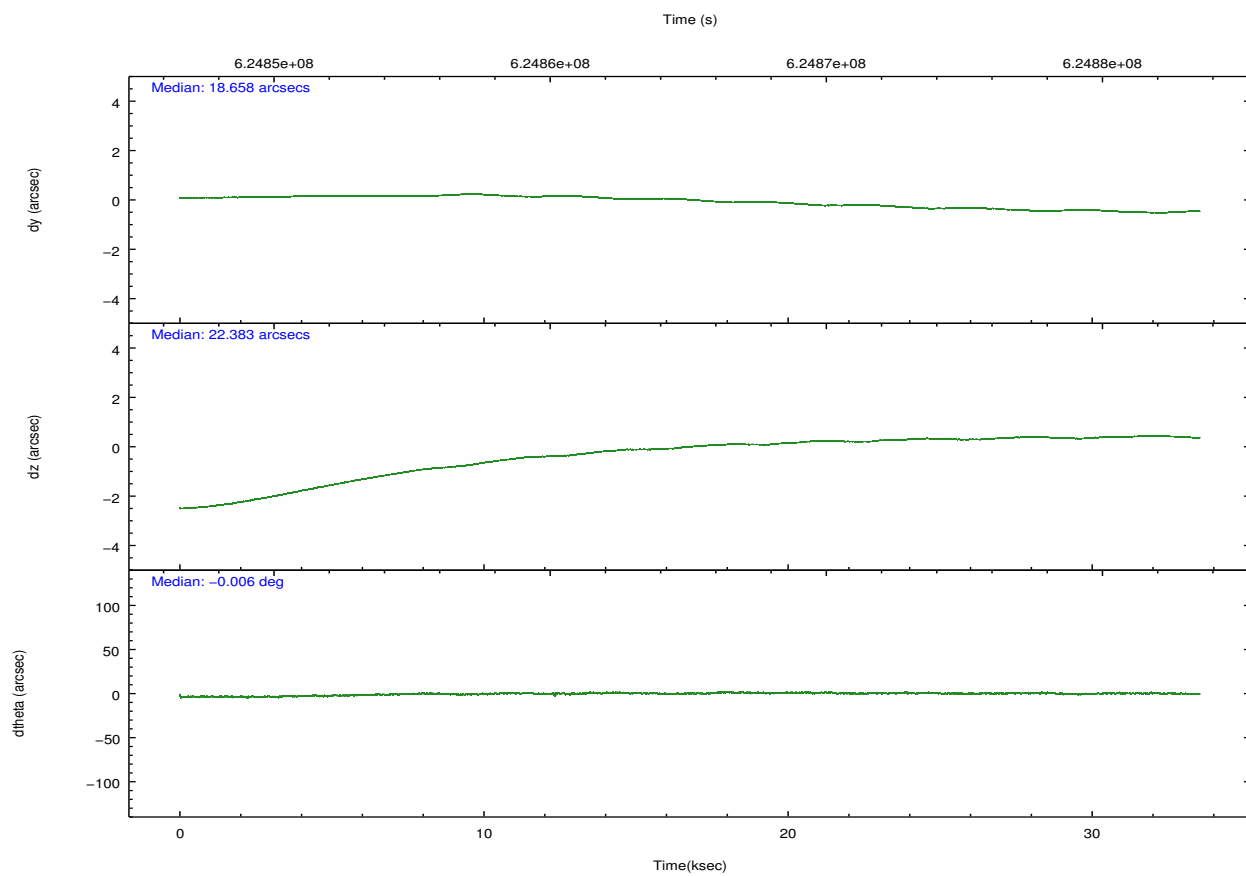
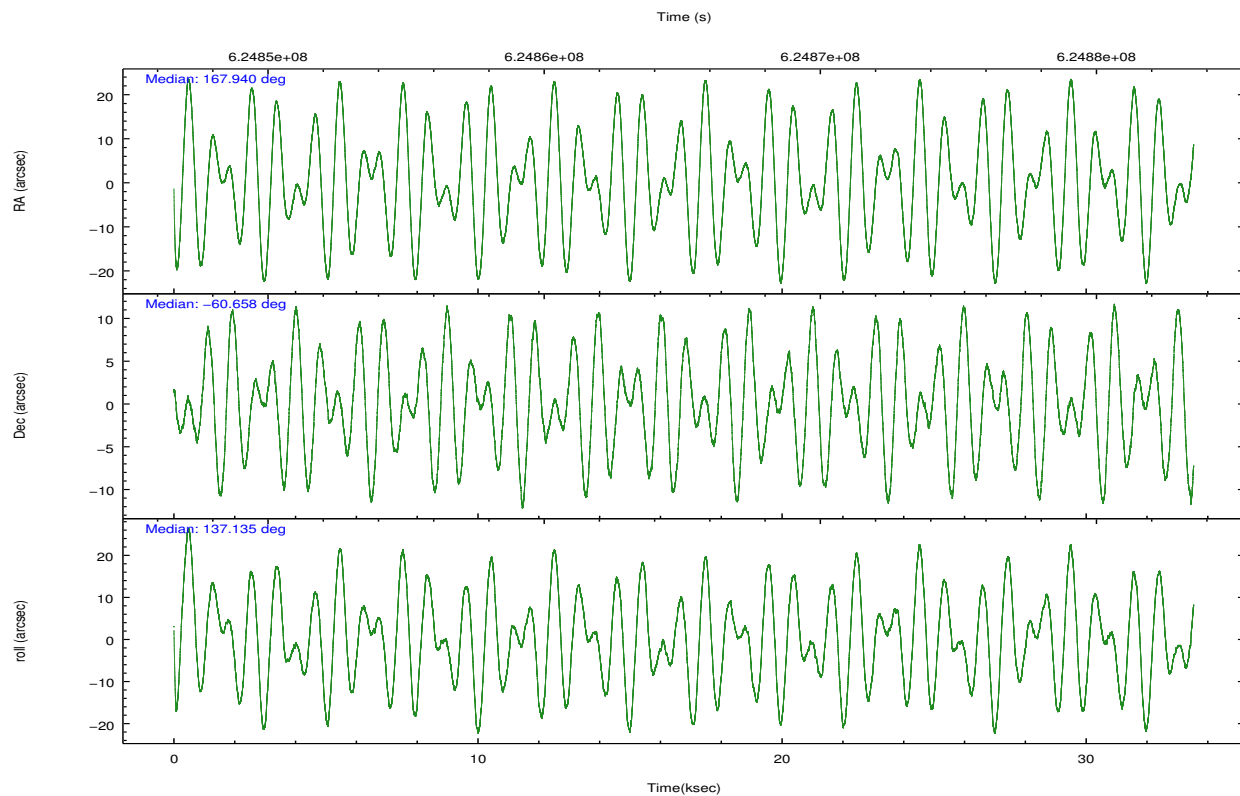
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	26382	4850	11429	24561	5211
	4%	1%	2%	3%	1%
grade 1 events	545	210	379	536	260
	0%	0%	0%	0%	0%
grade 2 events	67082	17215	41270	35170	17003
	12%	4%	9%	5%	3%
grade 3 events	4506	4998	7524	11496	4708
	0%	1%	1%	1%	1%
grade 4 events	4499	4771	7119	10871	4905
	0%	1%	1%	1%	1%
grade 5 events	26371	11997	28433	17839	13380
	4%	2%	6%	2%	3%
grade 6 events	113626	10857	81410	31805	11592
	21%	2%	17%	4%	2%
grade 7 events	287993	346657	277852	526107	382284
	54%	86%	61%	79%	87%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	167.994537	167.9397606185928	CCD I2 on	N	N
[deg] Pointing Dec	-60.663280	-60.6575443214163	CCD I3 on	N	N
[deg] Pointing Roll	137.036654	137.1455221577187	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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)	624848381.184000	624847073.78194	CCD S5 on	O1	Y
Observation start date	2017-10-20T00:58:32	2017-10-20T00:37:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	624881813.184000	624882880.62154	On-chip summing requested	N	N
Observation end date	2017-10-20T10:15:44	2017-10-20T10:34:40	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



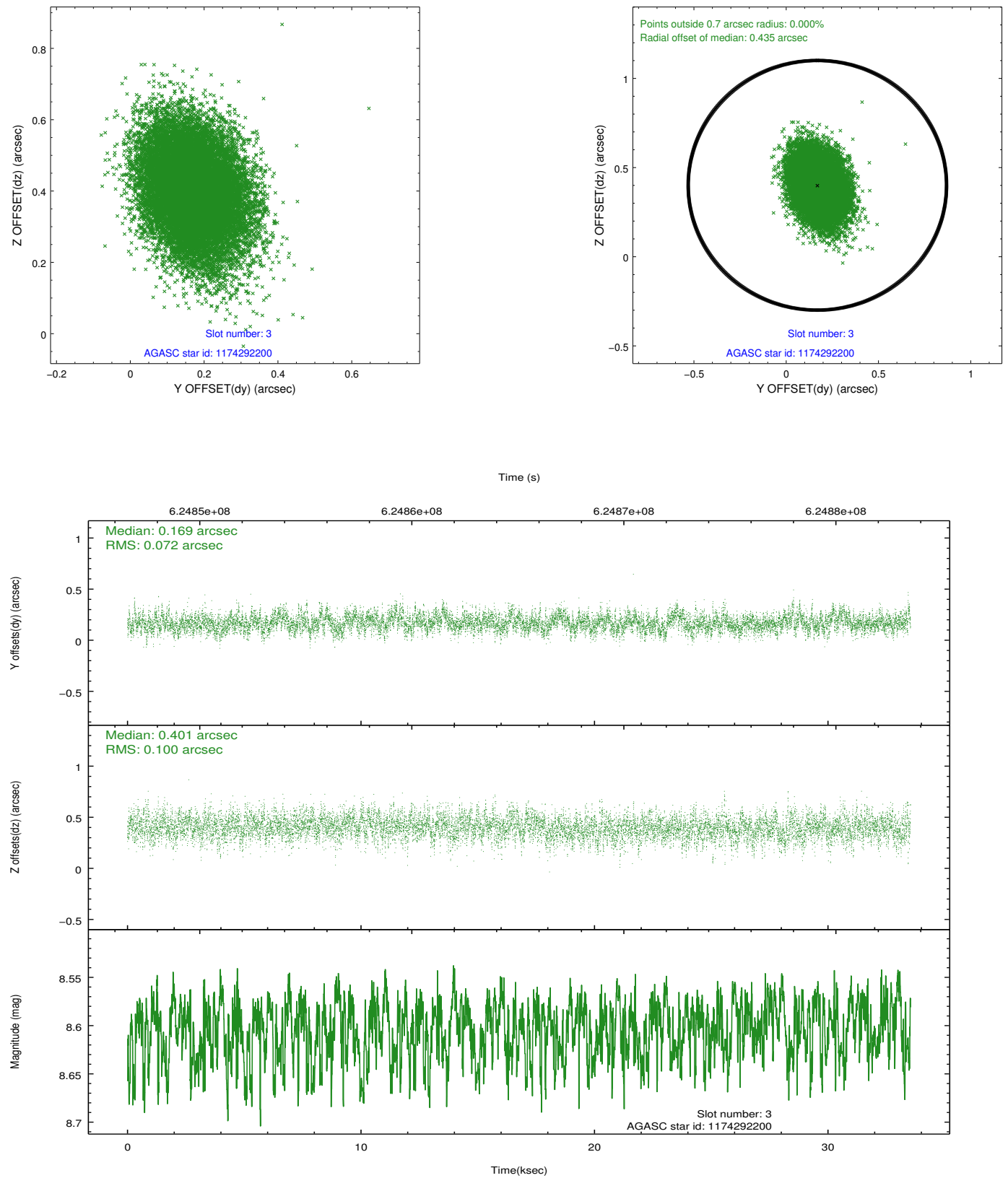


Slot Statistics

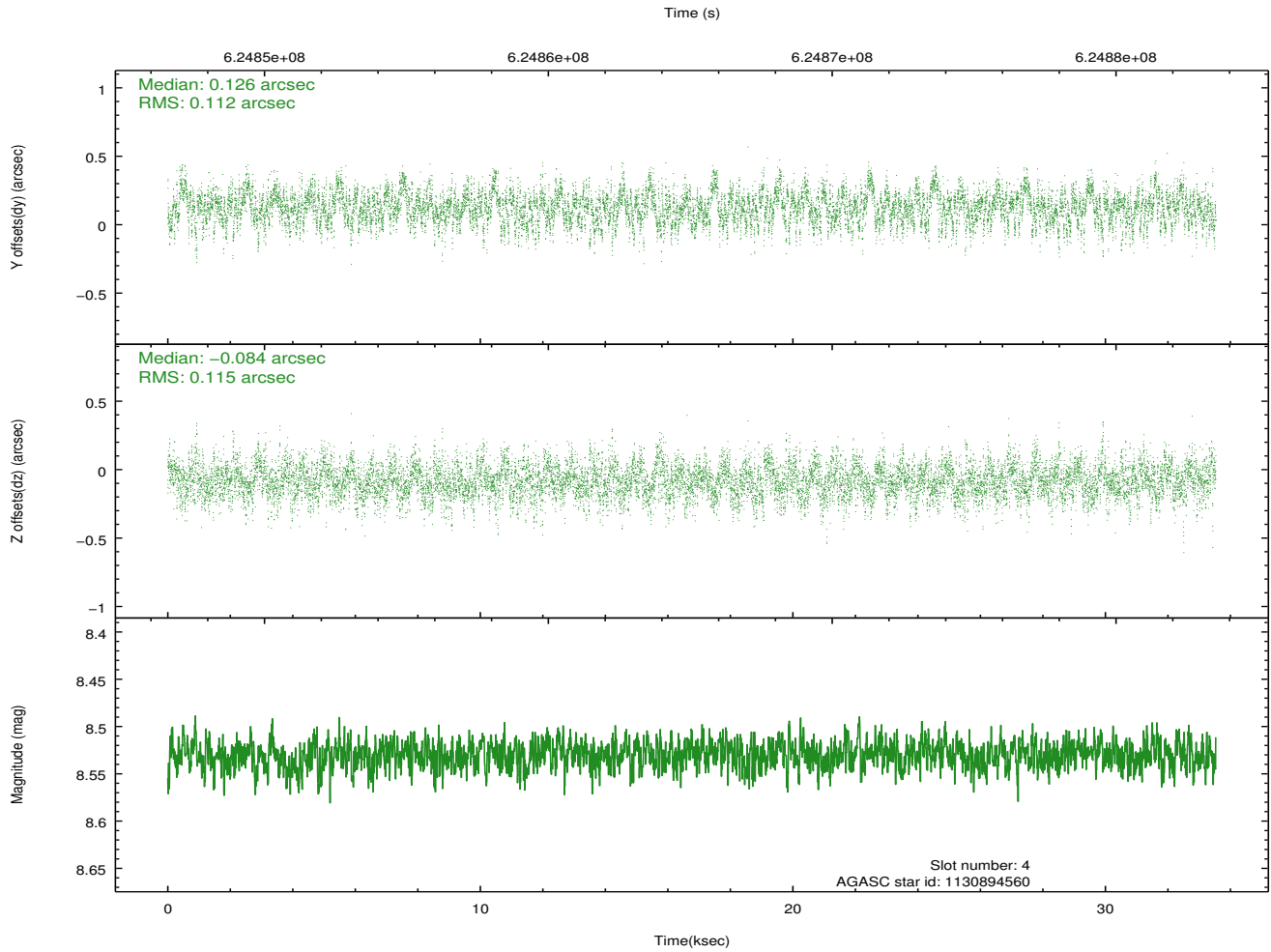
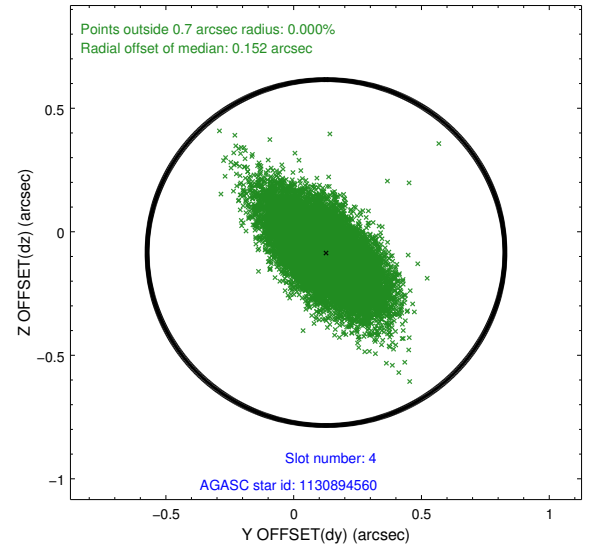
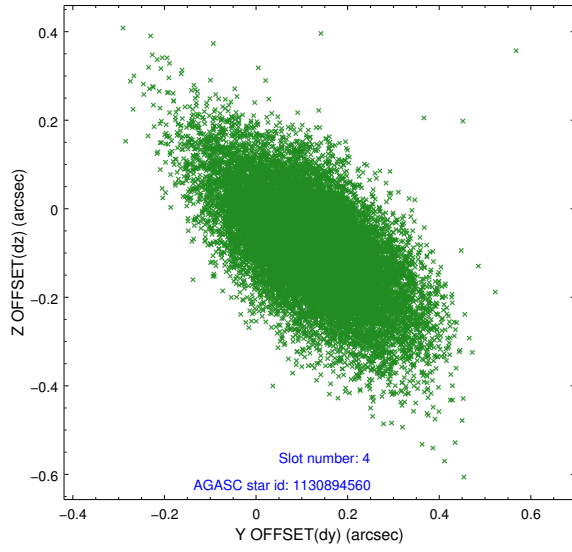
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.16	8179	0.058	-0.042	0.032	0.069	0.000000	0.000000	924.48	-1739.18
1	FID		ACIS-S-4	7.18	8179	0.366	0.003	0.034	0.073	0.000000	0.000000	2142.19	165.02
2	FID		ACIS-S-5	7.18	8178	-0.454	0.051	0.019	0.029	0.000000	0.000000	-1824.88	158.62
3	GUIDE	used	1174292200	8.60	16350	0.169	0.401	0.129	0.217	169.118665	-60.567864	-1231.89	-1594.96
4	GUIDE	used	1130894560	8.53	16348	0.126	-0.084	0.165	0.292	167.850967	-59.805728	2295.20	-2081.48
5	GUIDE	used	1174171768	8.74	16348	-0.268	-0.422	0.140	0.250	166.839003	-60.963190	729.48	2178.86
6	GUIDE	used	1174277360	8.31	16346	0.099	-0.157	0.118	0.213	167.516992	-60.979156	-166.45	1402.88
7	GUIDE	used	1174279704	6.01	16359	-0.124	0.268	0.107	0.193	168.374888	-60.091354	902.92	-1969.92

2.4 Star Slots

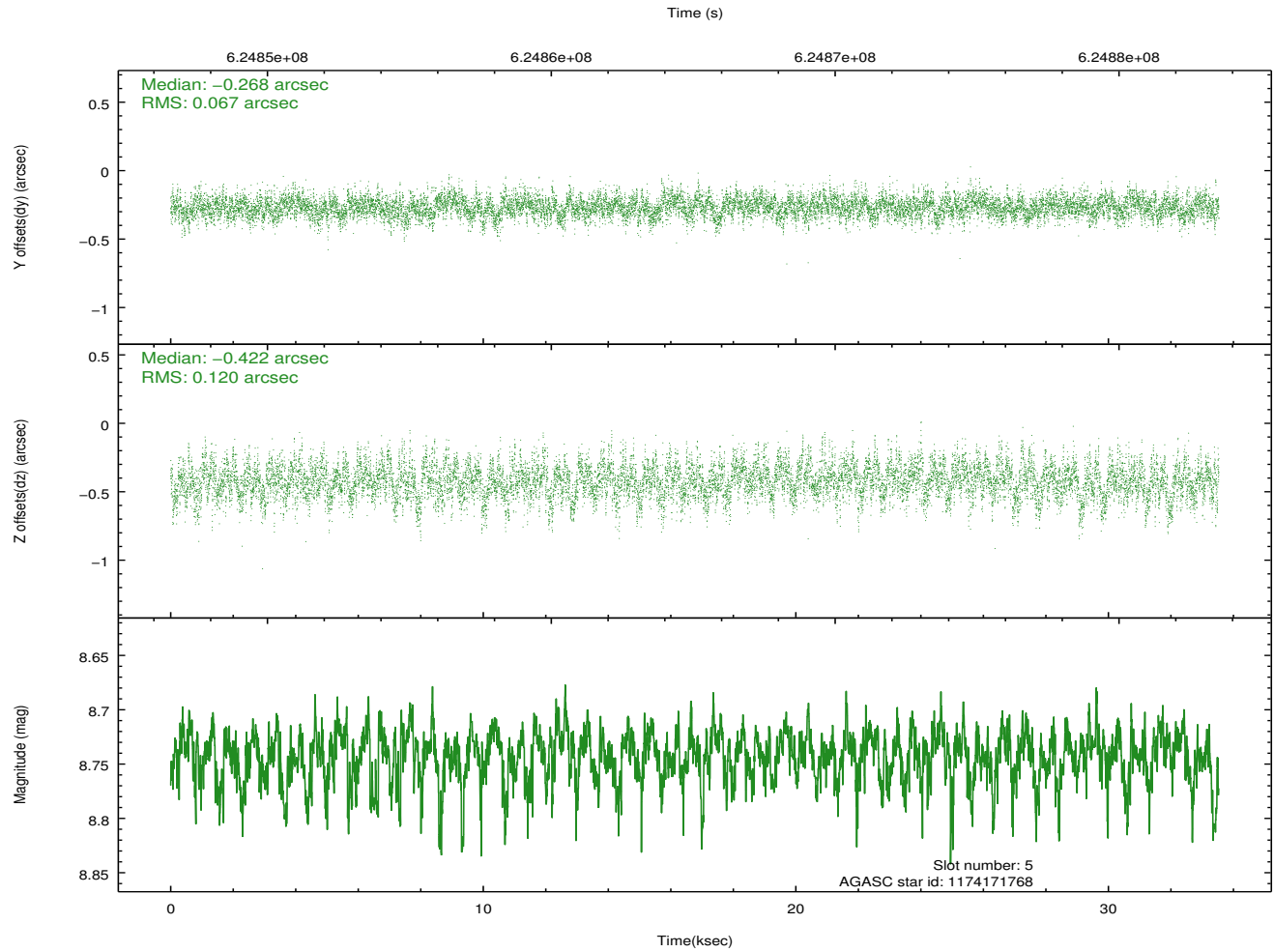
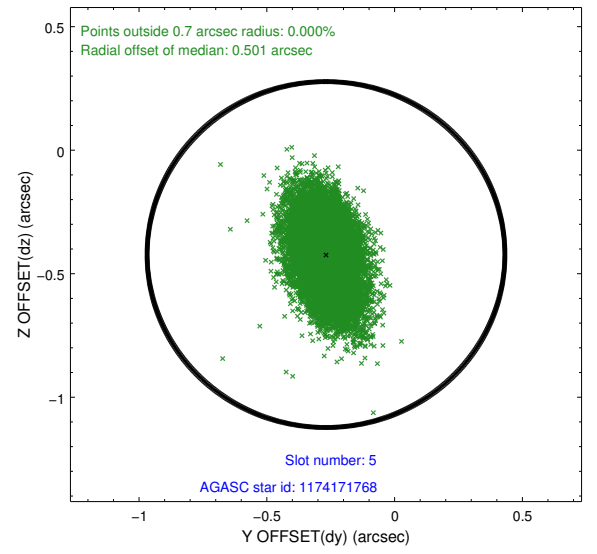
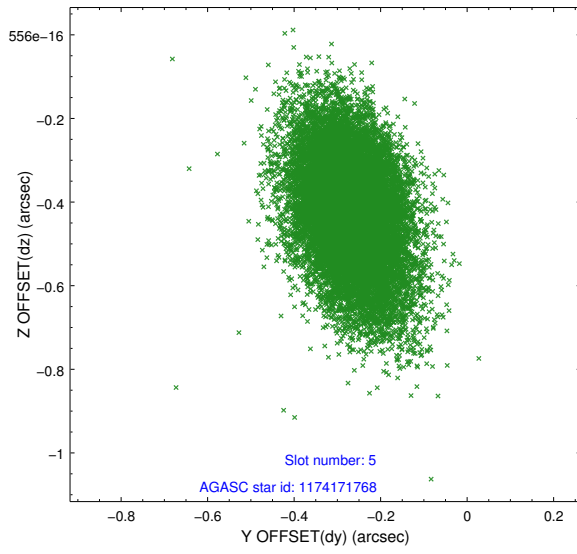
2.4.1 Slot 3



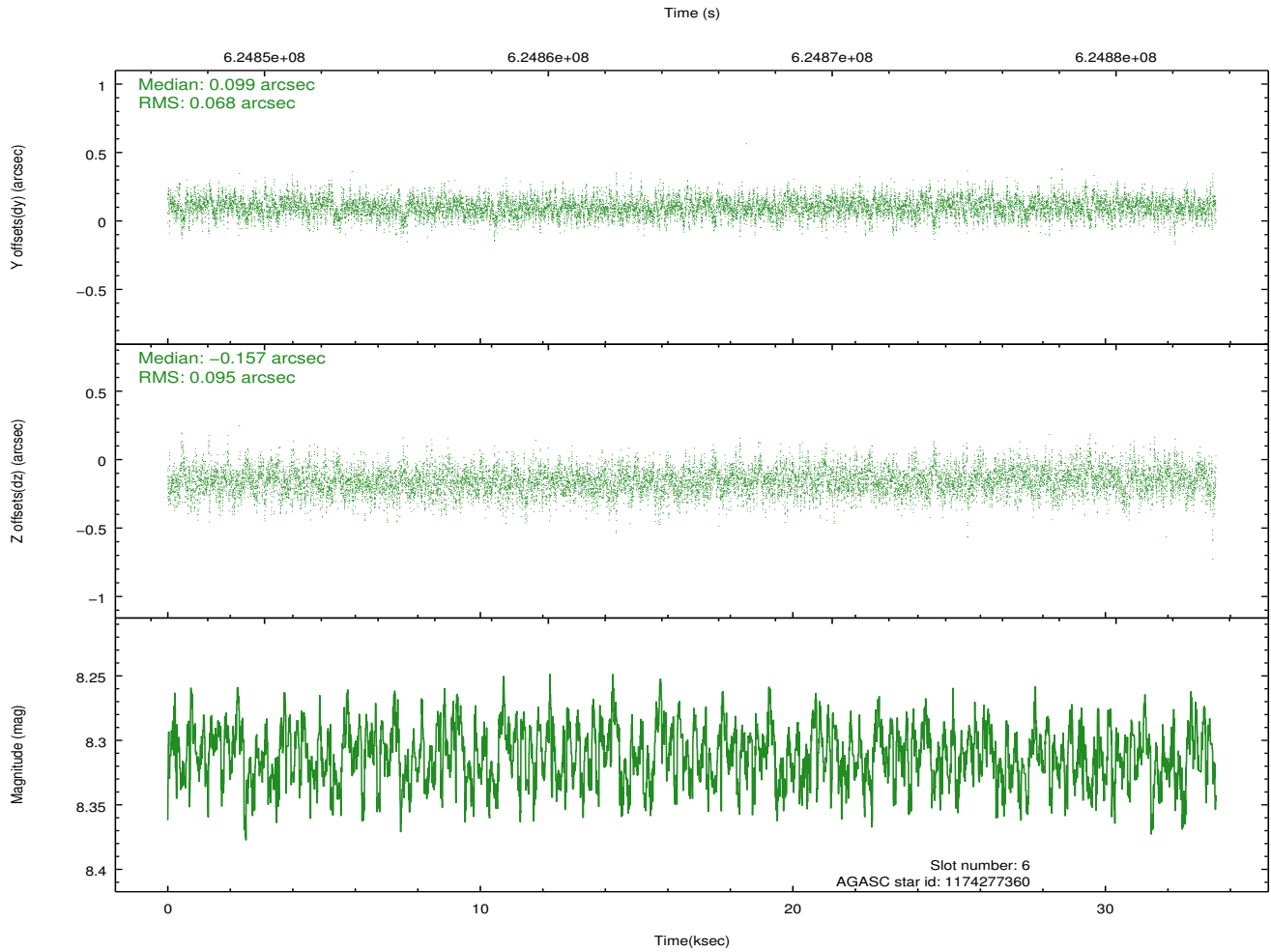
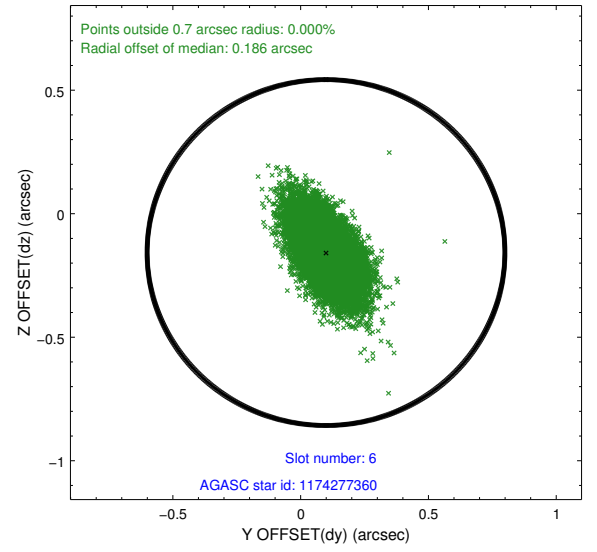
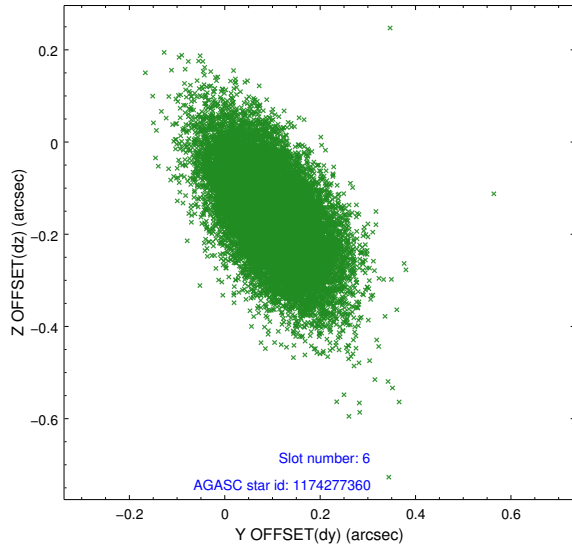
2.4.2 Slot 4



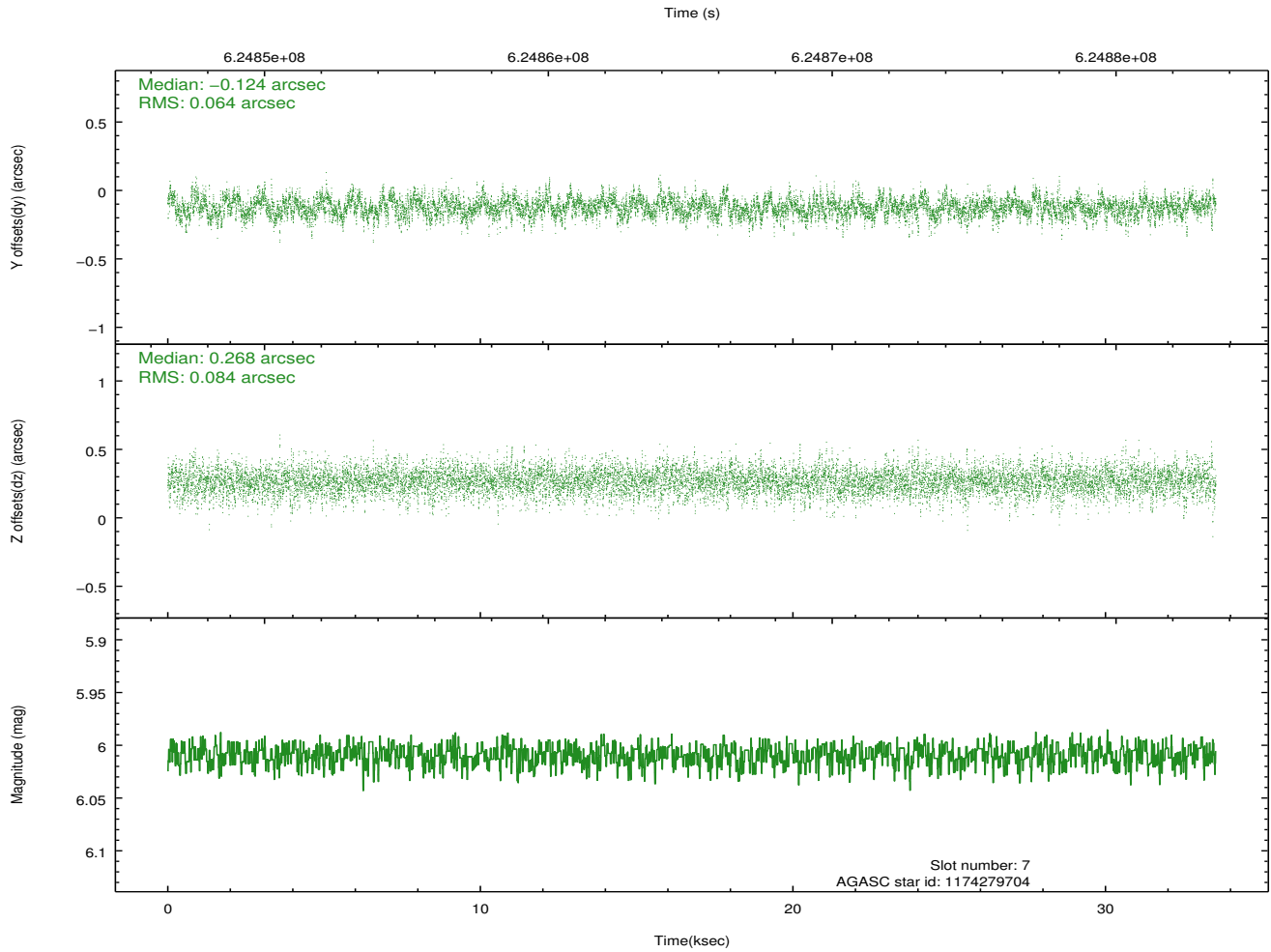
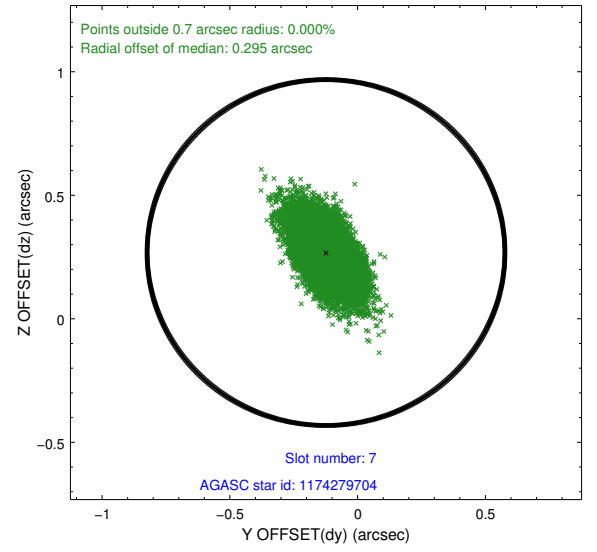
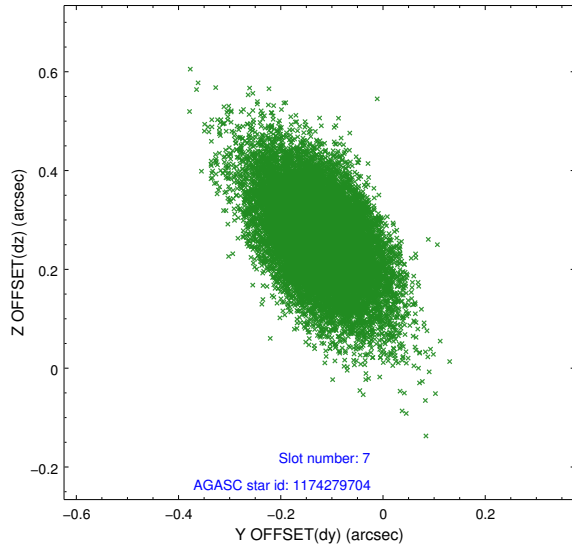
2.4.3 Slot 5



2.4.4 Slot 6

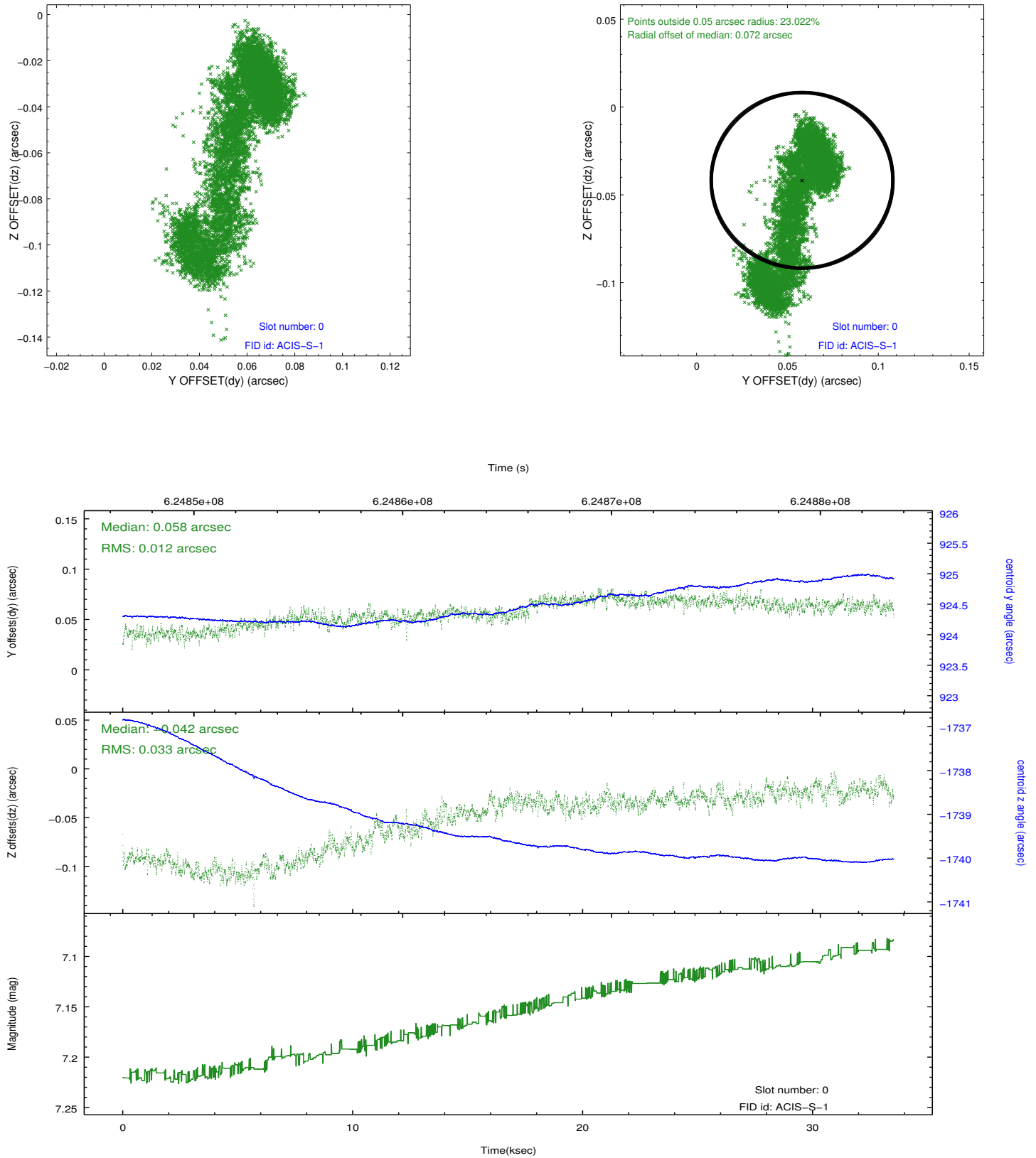


2.4.5 Slot 7

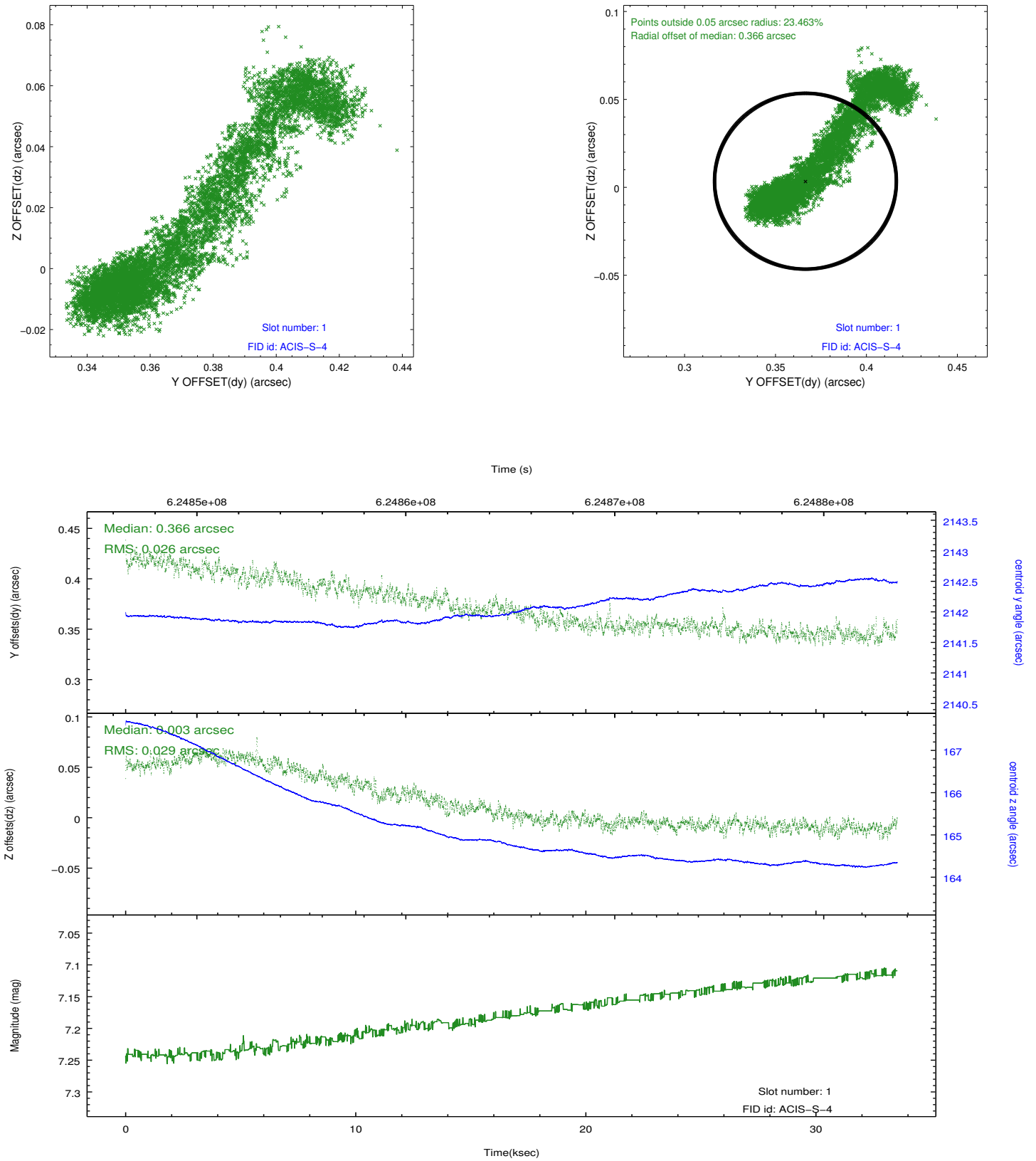


2.5 FID Slots

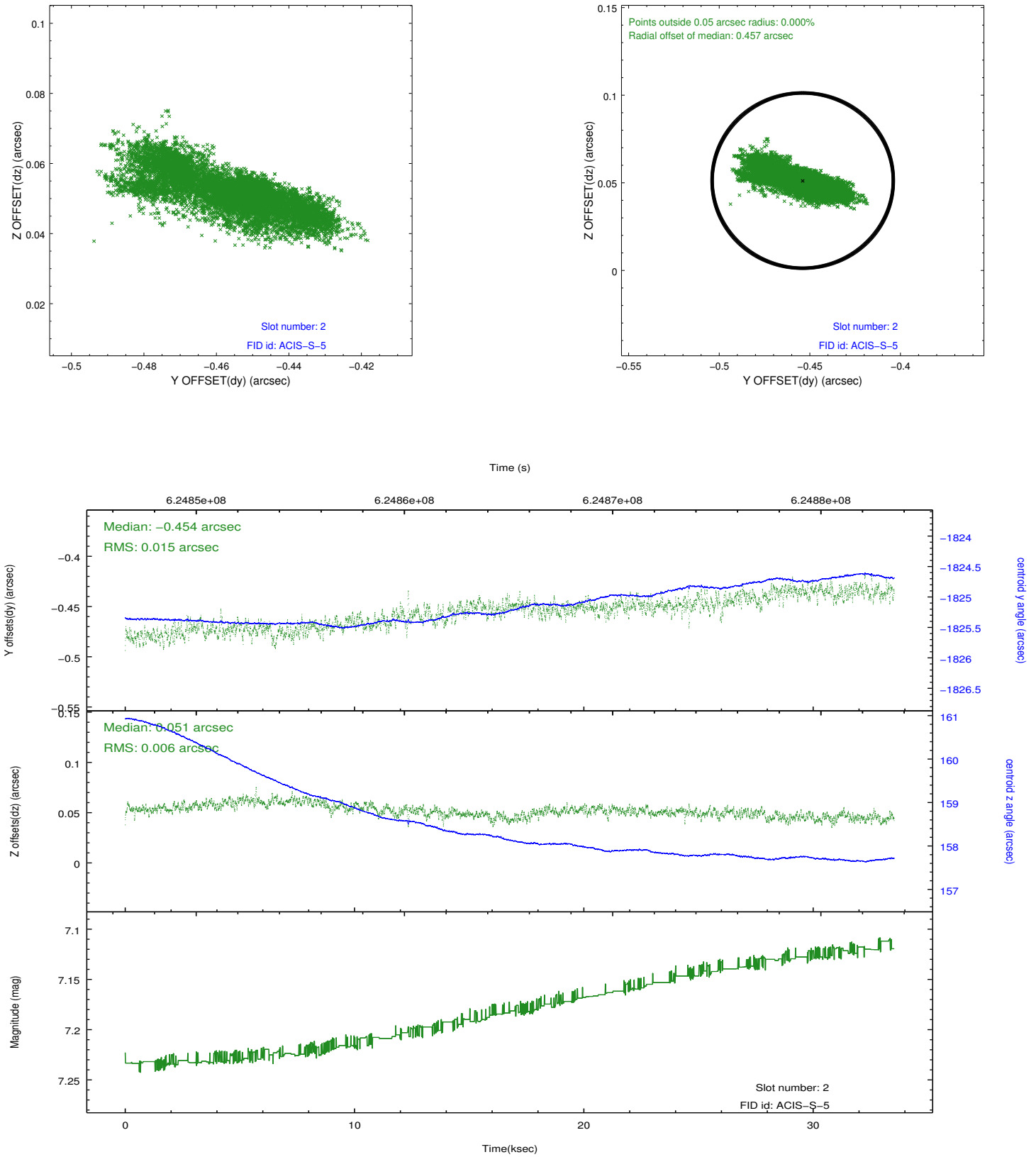
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2017.10.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.528

A.2 Comments