

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14210 - L2 Version 2
Chandra X-Ray Center

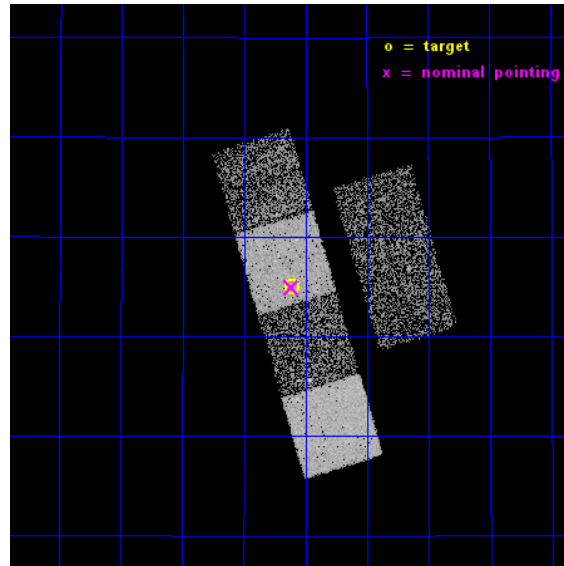
L2 Processing Date : Dec 2 2014

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1 Front

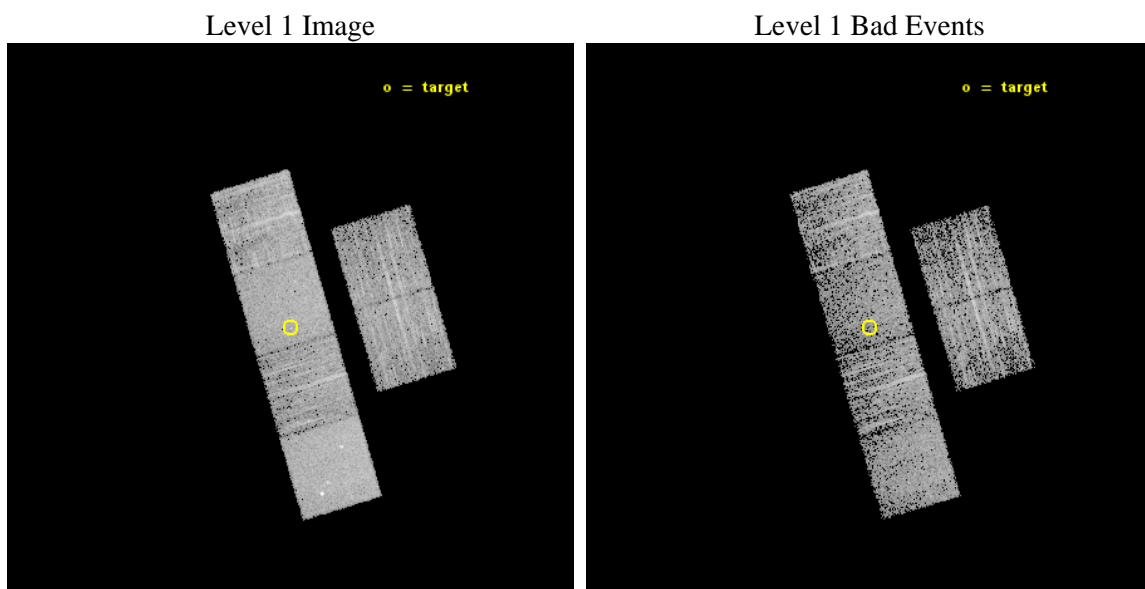
seq_num	702706	Sequence number
obs_id	14210	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	PSS 0926+3055	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.65125	Observer's specified target RA [deg]
dec_targ	30.918028	Observer's specified target Dec [deg]
ra_nom	141.65353337447	Nominal RA [deg]
dec_nom	30.915799331009	Nominal Dec [deg]
roll_nom	253.41972054695	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4962.5639789701	Sum of GTIs [s]
liveltime	4899.725005771	Livetime [s]
ontime2	4962.6050189734	Sum of GTIs [s]
ontime3	4962.4408589602	Sum of GTIs [s]
ontime5	4962.5229389668	Sum of GTIs [s]
ontime6	4962.4818989635	Sum of GTIs [s]
ontime7	4962.5639789701	Sum of GTIs [s]
ontime8	4962.3998189569	Sum of GTIs [s]
l2events	45394	Number of level 2 events



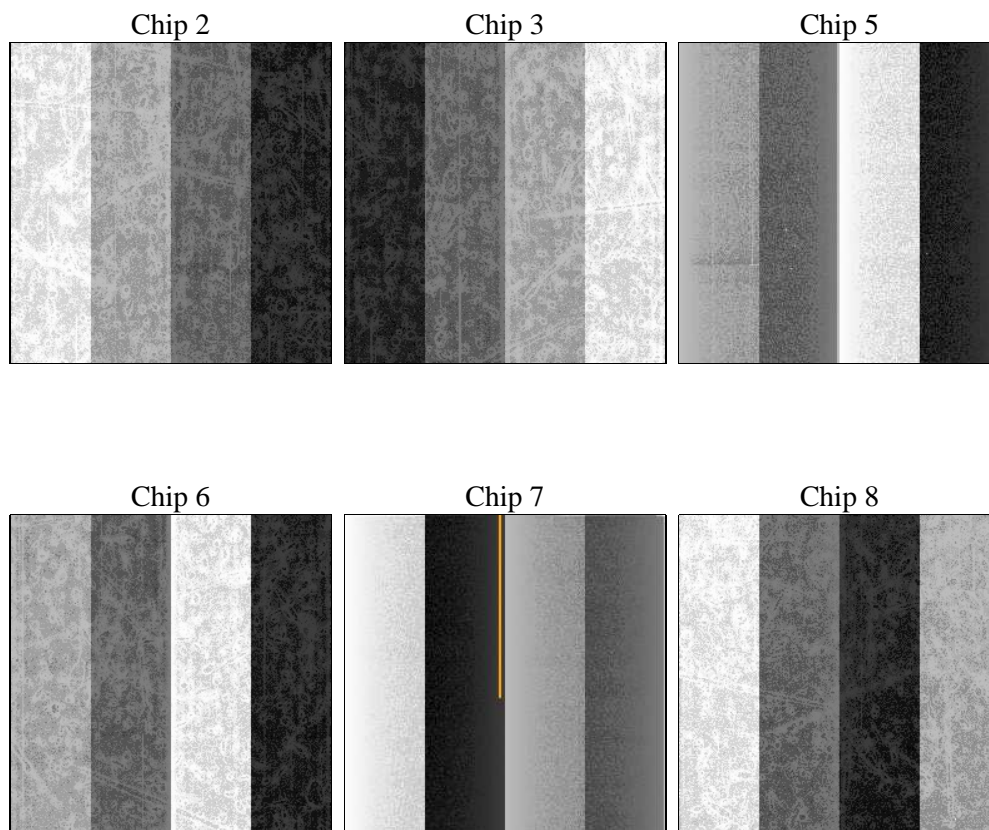
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	4962.5639789701	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	4962.6050189734	Sum of GTIs [s]
date	2014-12-03T03:55:42	Date and time of file creation	ontime3	4962.4408589602	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4962.5229389668	Sum of GTIs [s]
			ontime6	4962.4818989635	Sum of GTIs [s]
			ontime7	4962.5639789701	Sum of GTIs [s]
			ontime8	4962.3998189569	Sum of GTIs [s]
			l1events	186619	Number of level 1 events

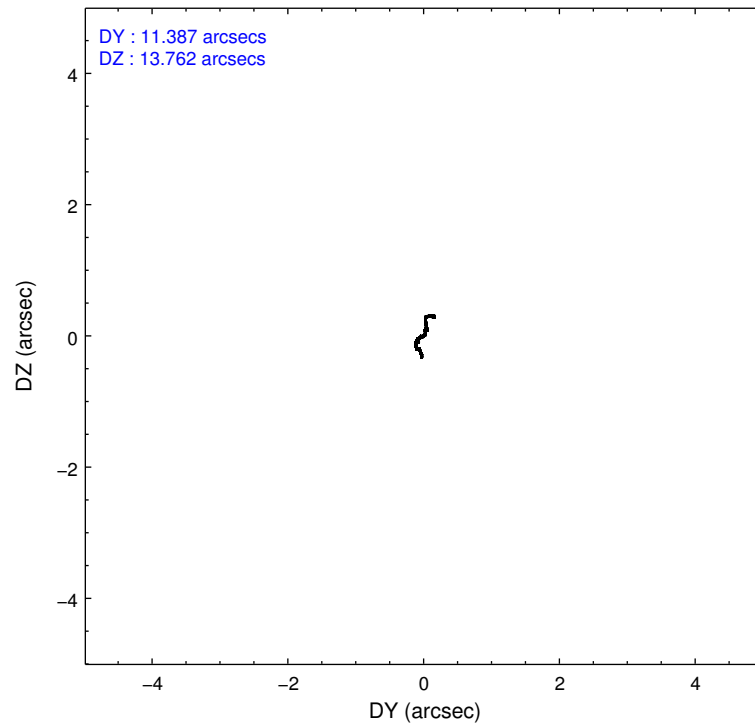
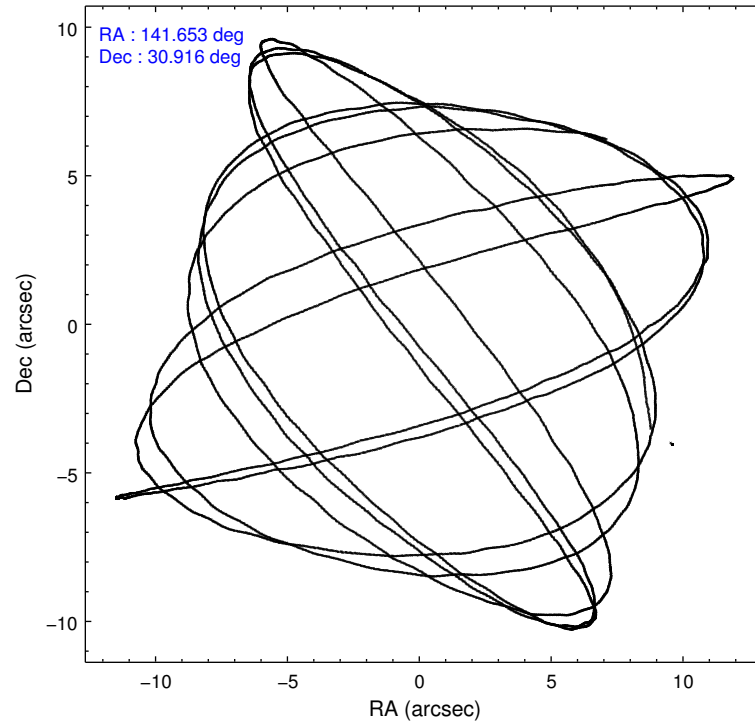
2.1.4 Events

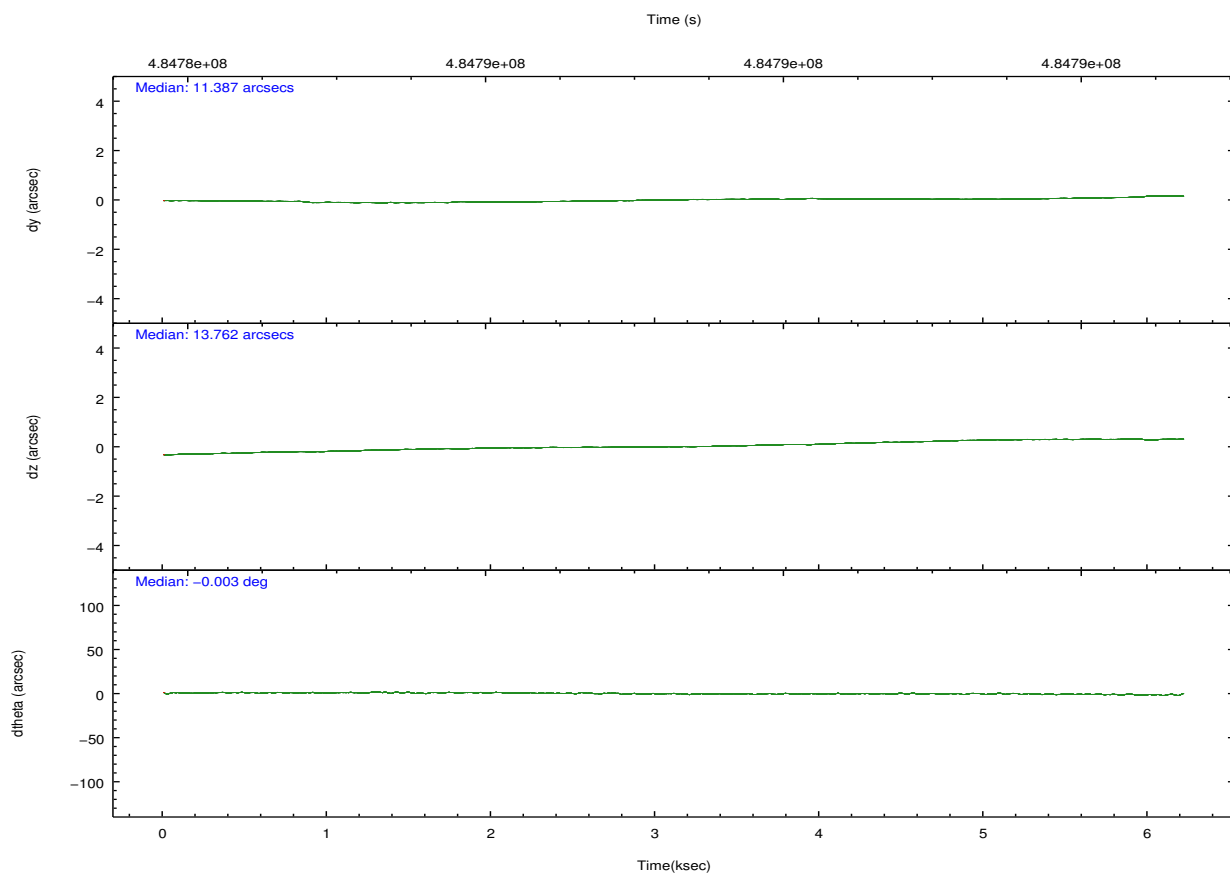
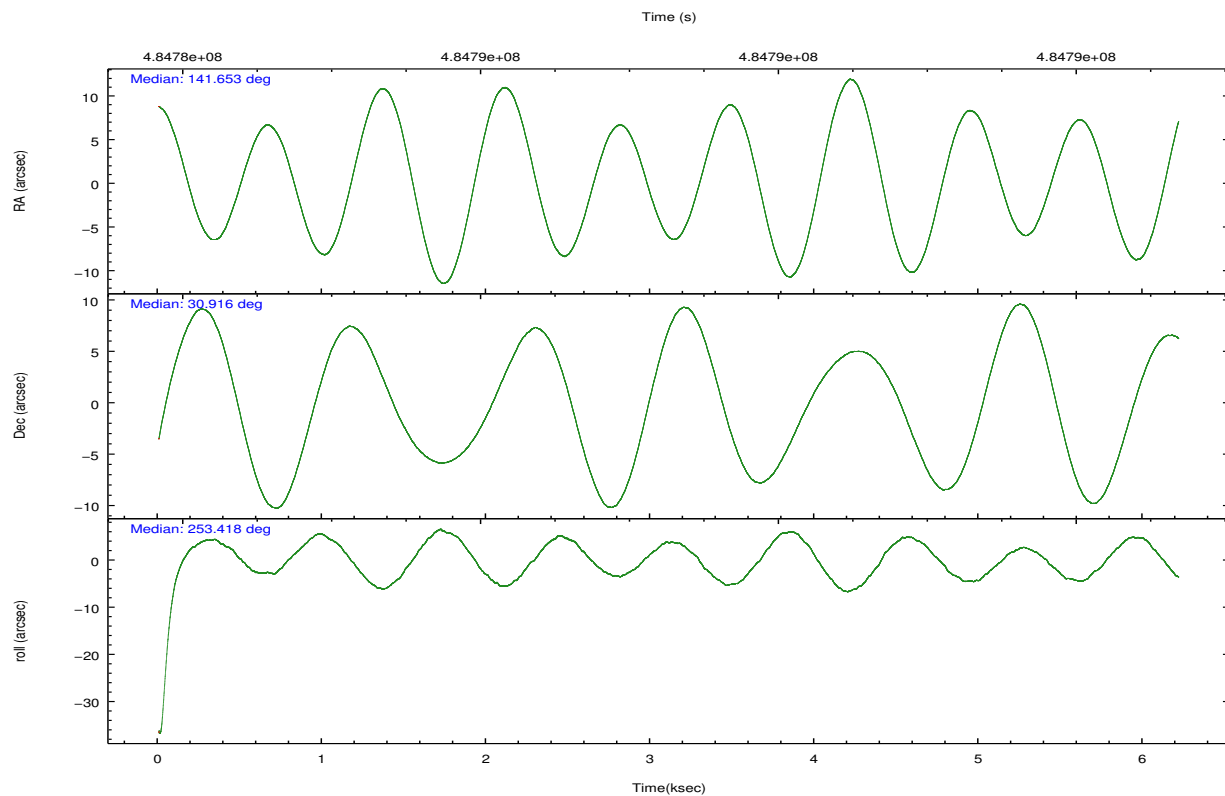
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	26219	23277	42936	26006	34392	33789	grade 0 events	1126	1013	2145	1191	1444	2589
rejected events	23262	20498	22033	22649	19106	25026		4%	4%	4%	4%	4%	7%
rejected %	88%	88%	51%	87%	55%	74%	grade 1 events	18	8	73	8	44	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	694	600	6460	754	3095	2177
								2%	2%	15%	2%	8%	6%
							grade 3 events	304	297	628	350	1267	781
								1%	1%	1%	1%	3%	2%
							grade 4 events	298	276	594	319	1350	791
								1%	1%	1%	1%	3%	2%
							grade 5 events	1179	1279	3045	1289	3490	1919
								4%	5%	7%	4%	10%	5%
							grade 6 events	542	595	11106	745	8149	2445
								2%	2%	25%	2%	23%	7%
							grade 7 events	22058	19209	18885	21350	15553	23060
								84%	82%	43%	82%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	141.645740	141.6535333744728	CCD I2 on	O2	Y
[deg] Pointing Dec	30.942244	30.91579933100919	CCD I3 on	O1	Y
[deg] Pointing Roll	253.267173	253.4197205469532	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	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)	484785384.184000	484783910.65752	CCD S5 on	N	N
Observation start date	2013-05-12T22:35:17	2013-05-12T22:11:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	484790384.184000	484790805.83289	On-chip summing requested	N	N
Observation end date	2013-05-12T23:58:37	2013-05-13T00:06:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



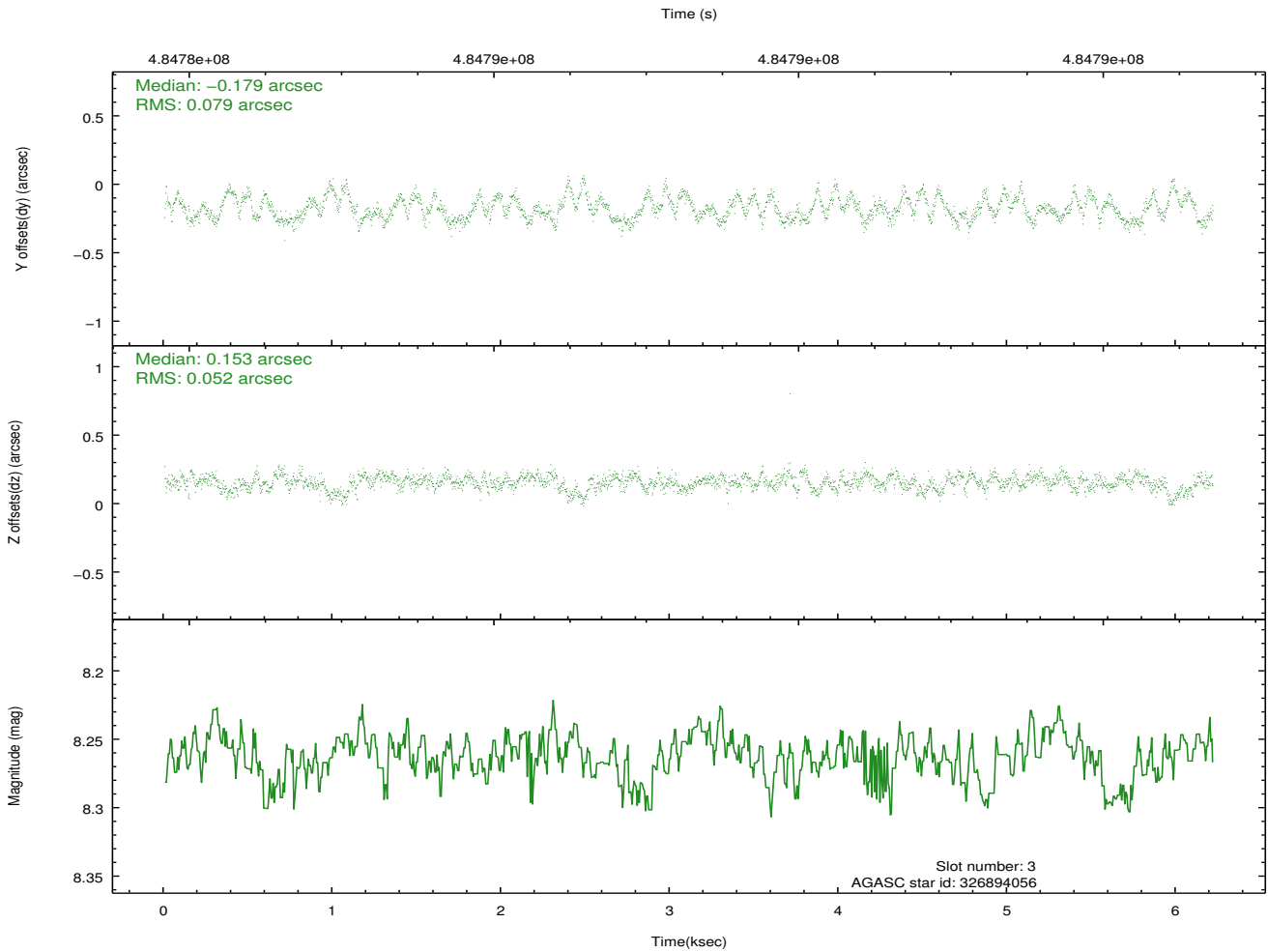
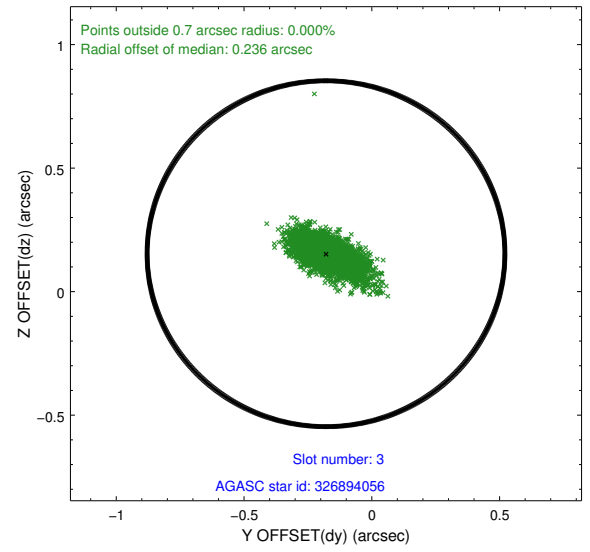
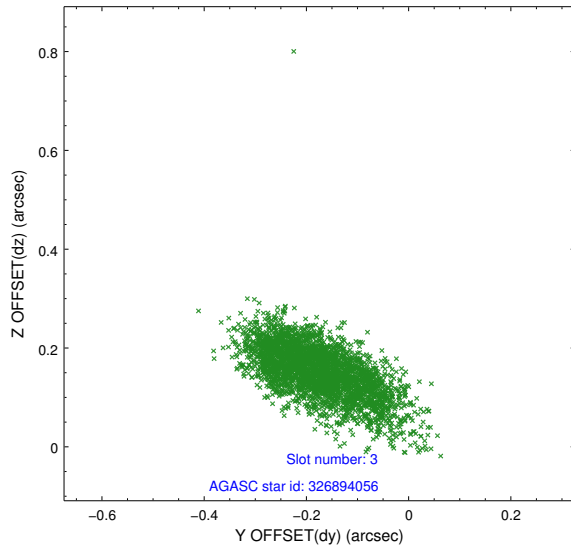


Slot Statistics

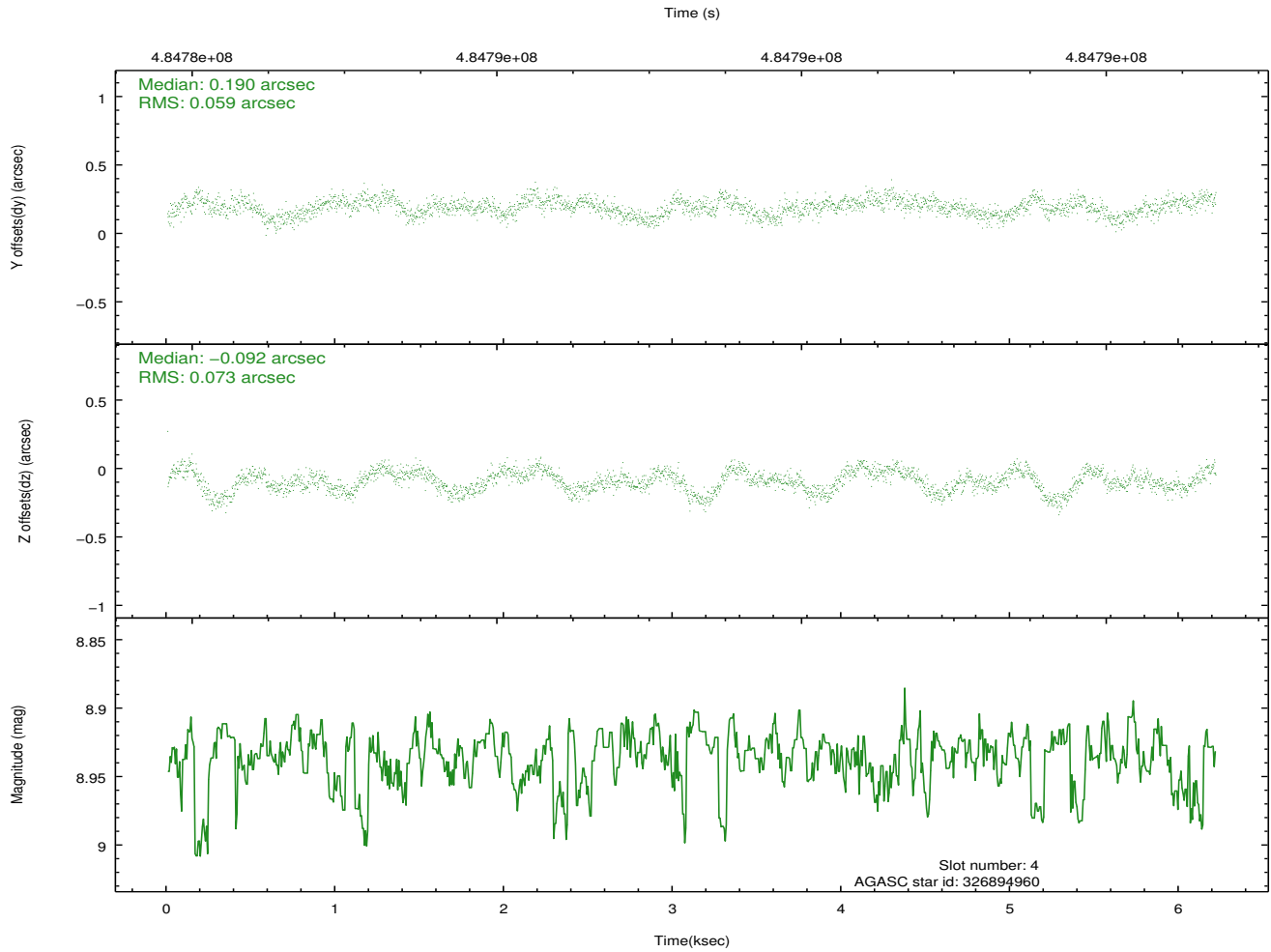
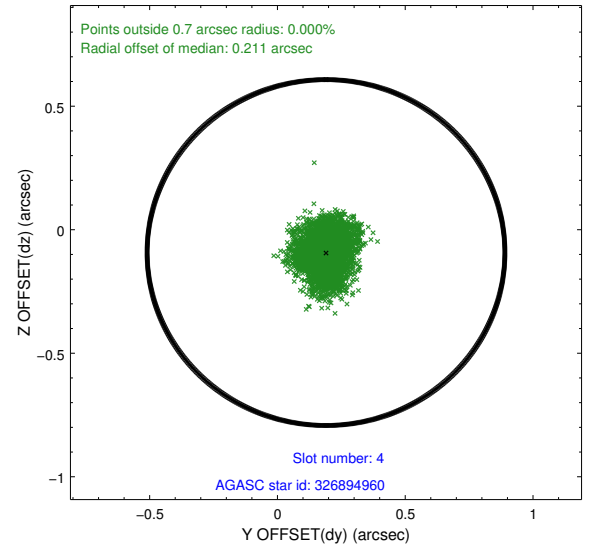
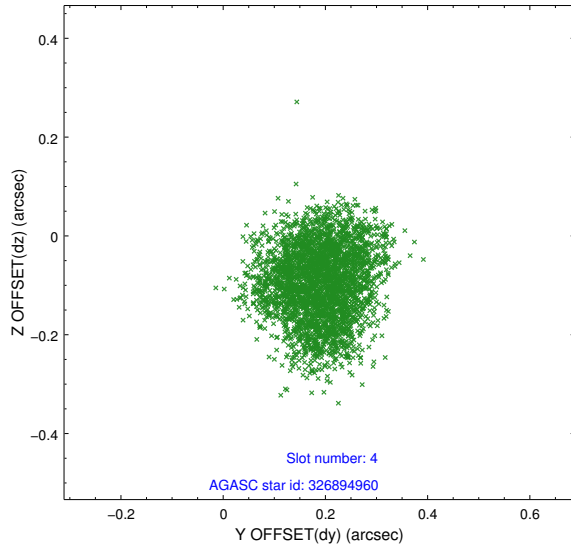
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	1516	-0.046	-0.028	0.007	0.012	0.000000	0.000000	-764.31	-1735.11
1	FID		ACIS-S-4	7.10	1516	0.151	0.030	0.006	0.010	0.000000	0.000000	2148.75	172.42
2	FID		ACIS-S-5	7.13	1516	-0.135	0.007	0.007	0.012	0.000000	0.000000	-1816.01	167.19
3	GUIDE	used	326894056	8.26	3029	-0.179	0.153	0.098	0.166	142.549029	31.327113	-2137.12	2258.27
4	GUIDE	used	326894960	8.93	3025	0.190	-0.092	0.102	0.155	141.736989	30.296358	2145.43	942.42
5	GUIDE	used	326898392	8.36	3031	-0.038	0.077	0.079	0.126	141.640946	31.182886	-824.04	-262.20
6	GUIDE	used	326899384	8.91	3032	-0.081	-0.143	0.075	0.120	141.976290	31.465042	-2095.02	429.97
7	GUIDE	used	326903944	7.62	3029	0.108	0.010	0.072	0.114	141.372366	30.493208	1793.26	-344.89

2.4 Star Slots

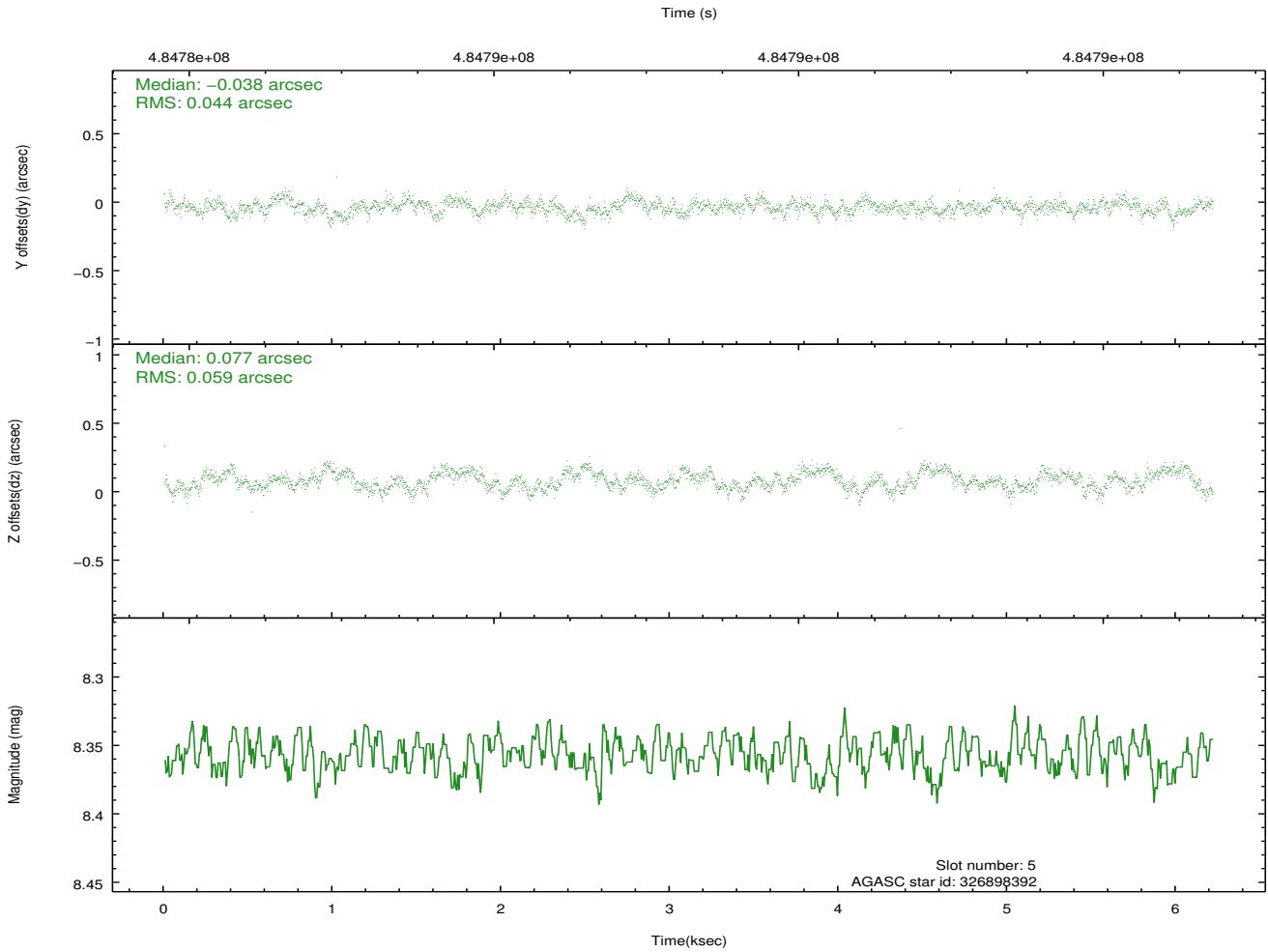
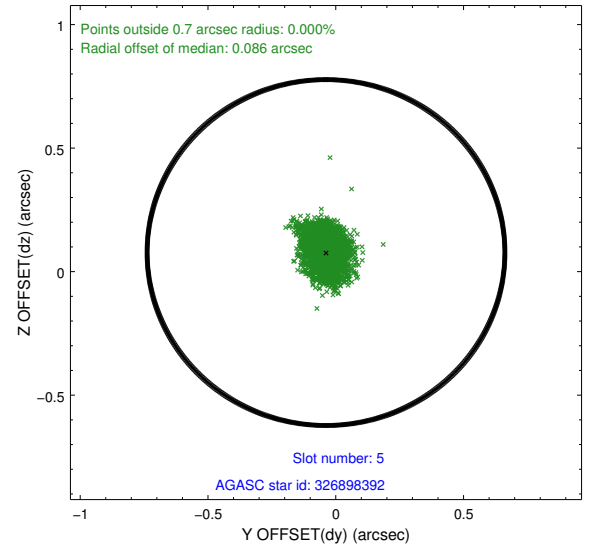
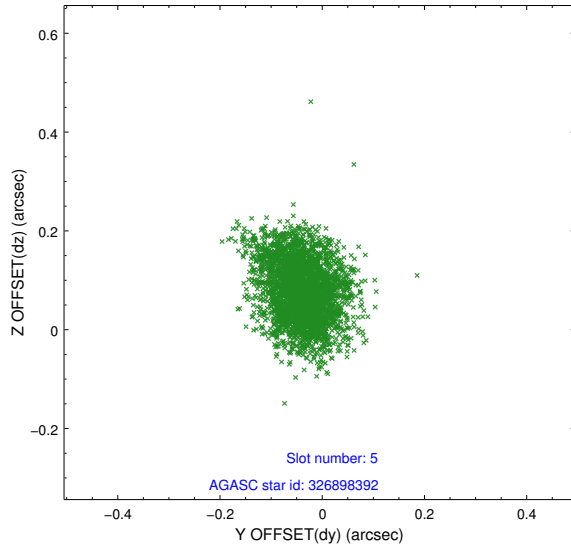
2.4.1 Slot 3



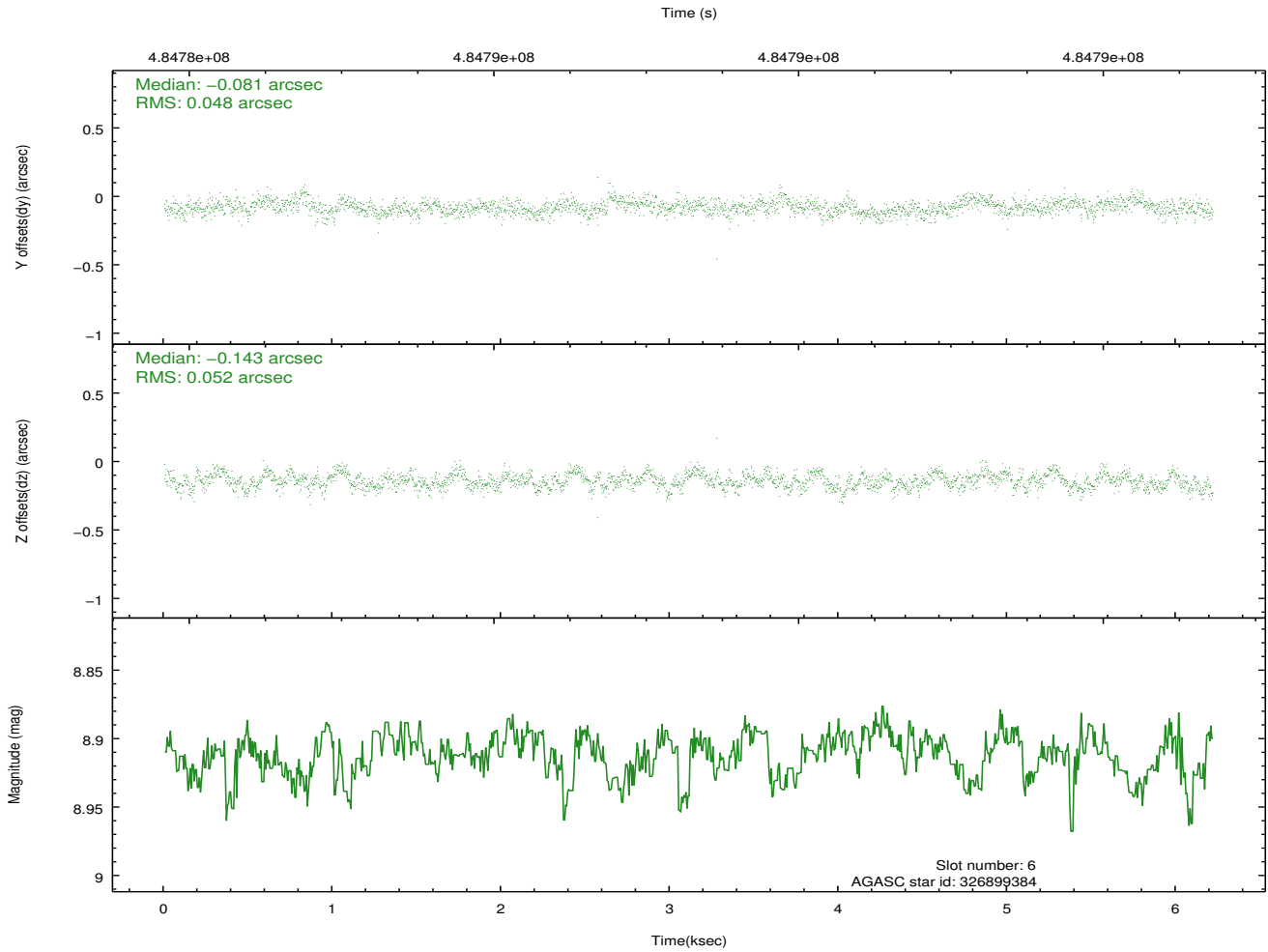
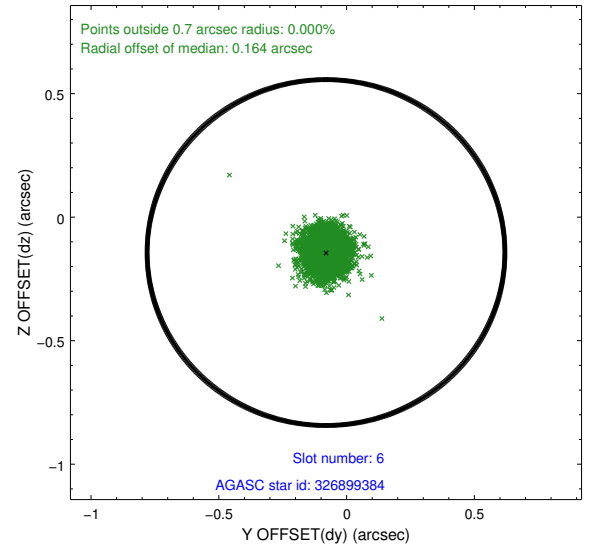
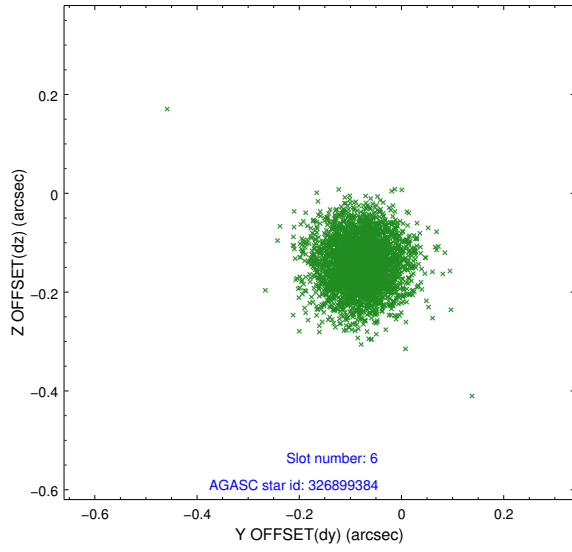
2.4.2 Slot 4



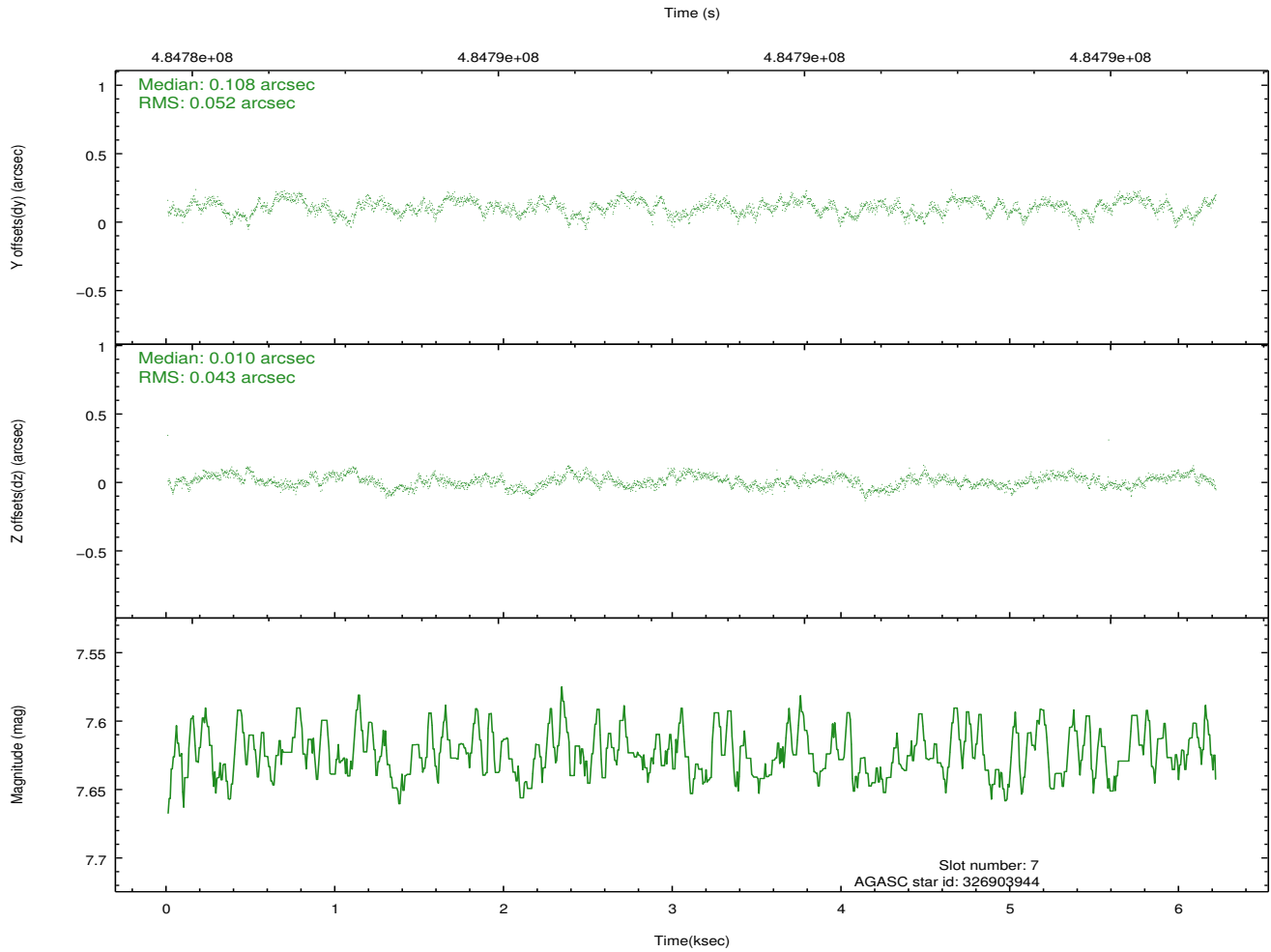
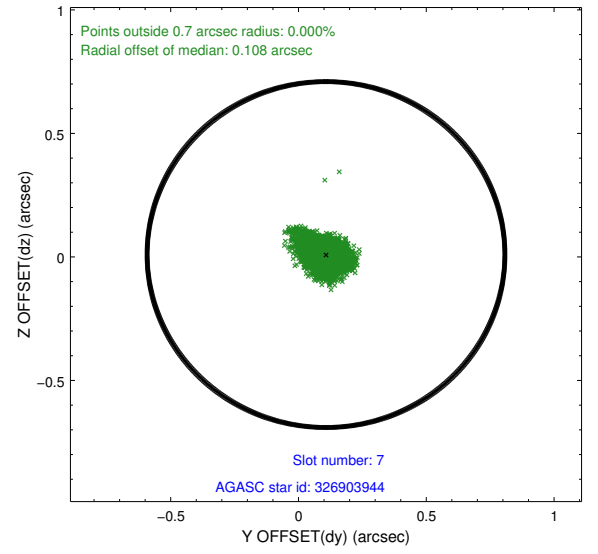
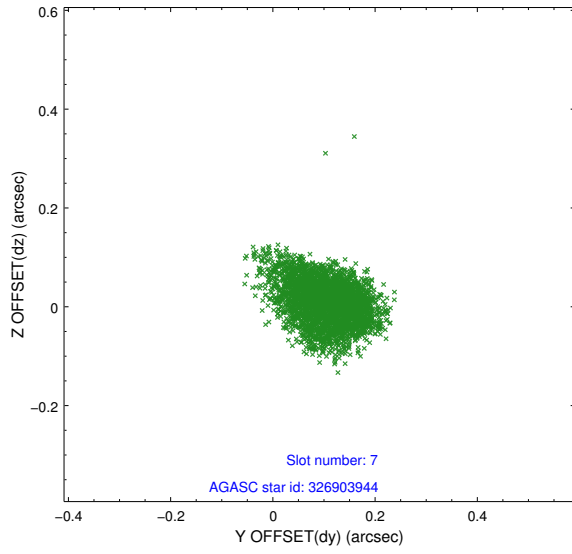
2.4.3 Slot 5



2.4.4 Slot 6

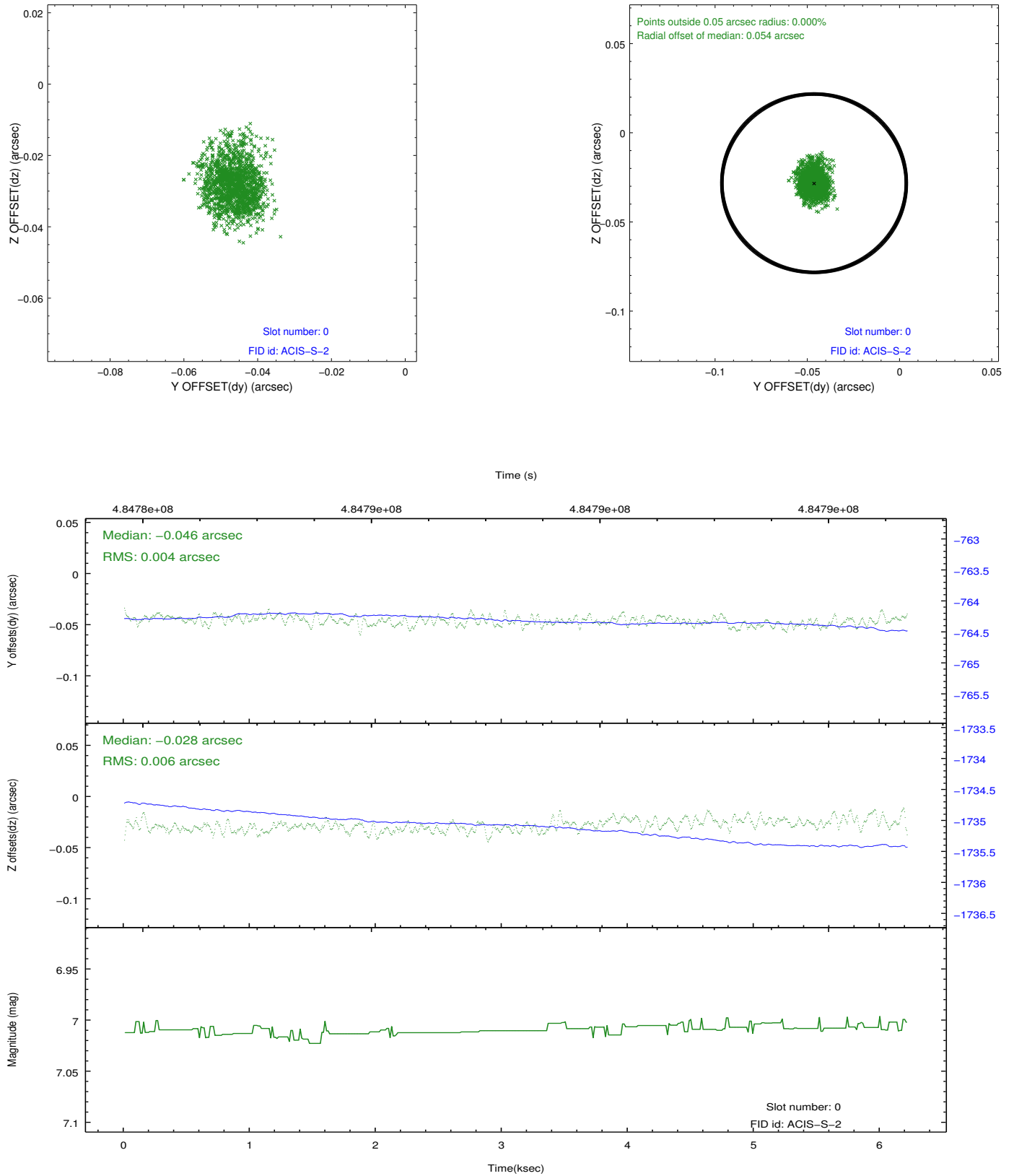


2.4.5 Slot 7

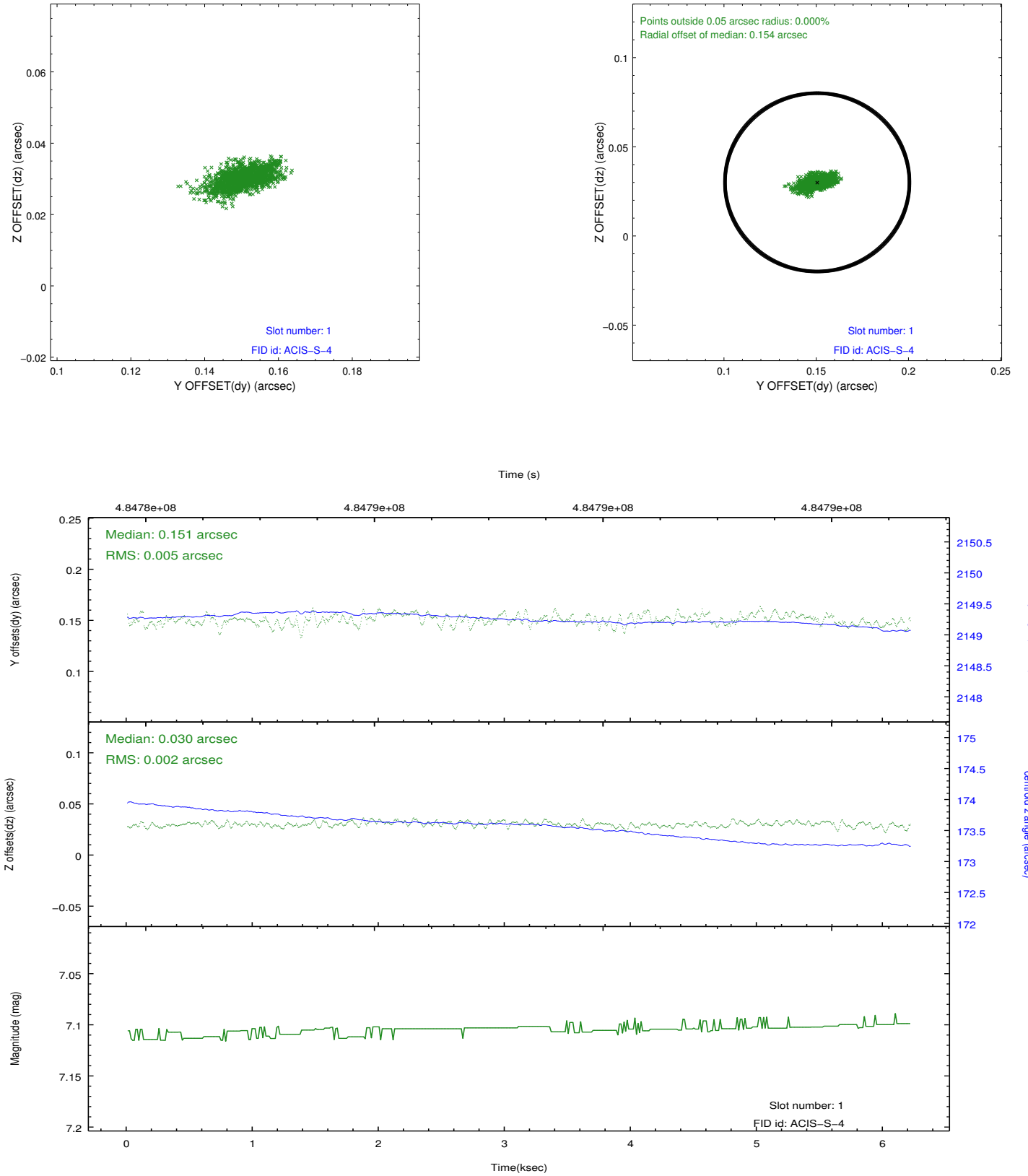


2.5 FID Slots

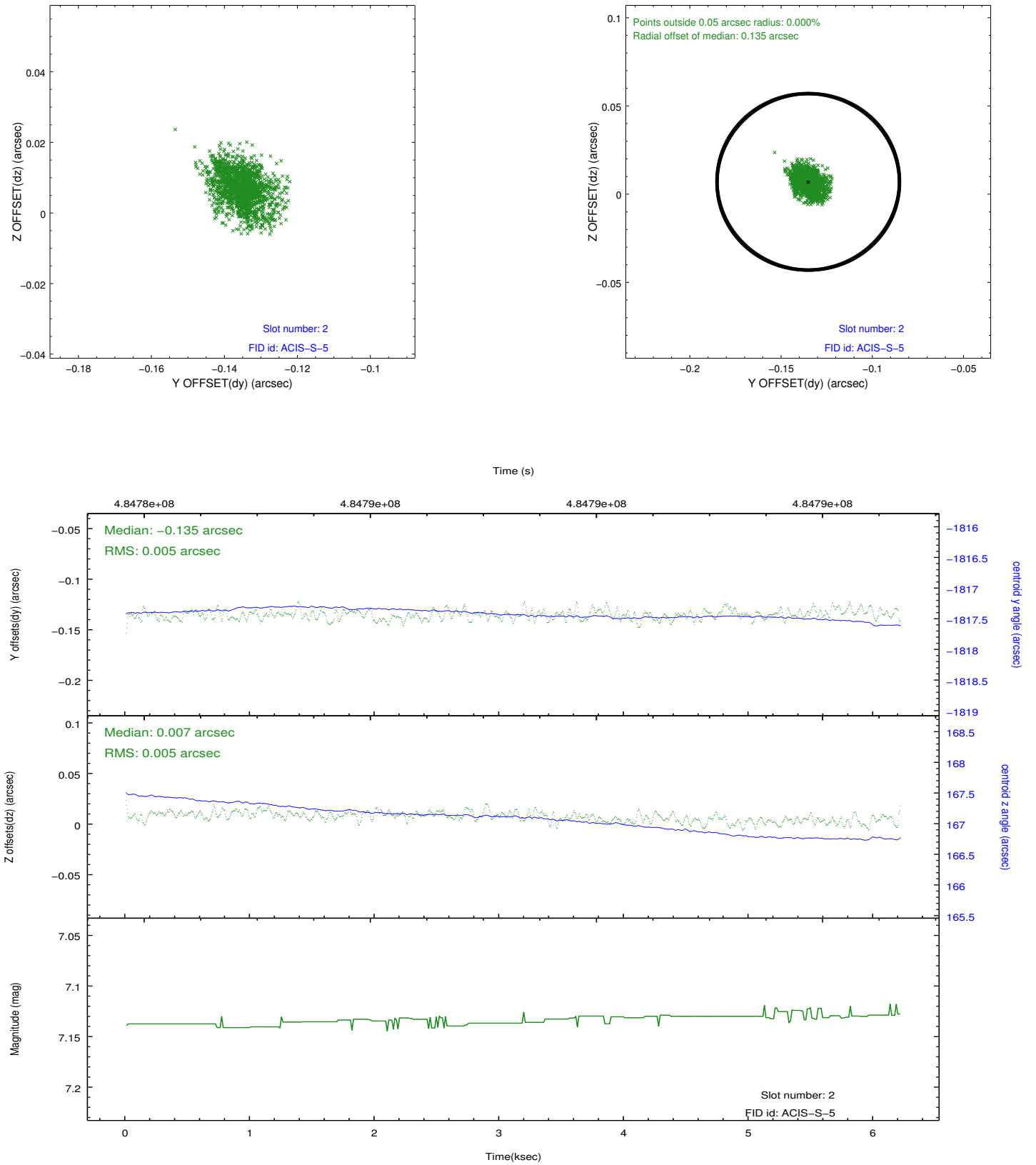
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9625639789701

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.