

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1051 - L2 Version 4

Chandra X-Ray Center

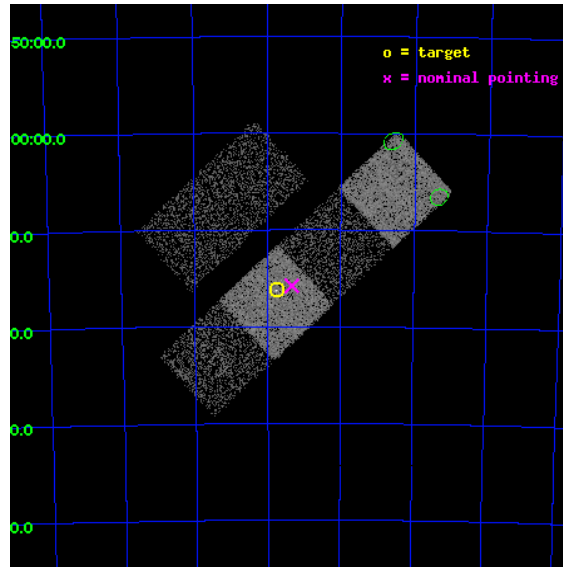
L2 Processing Date : Jul 10 2010

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1 Front

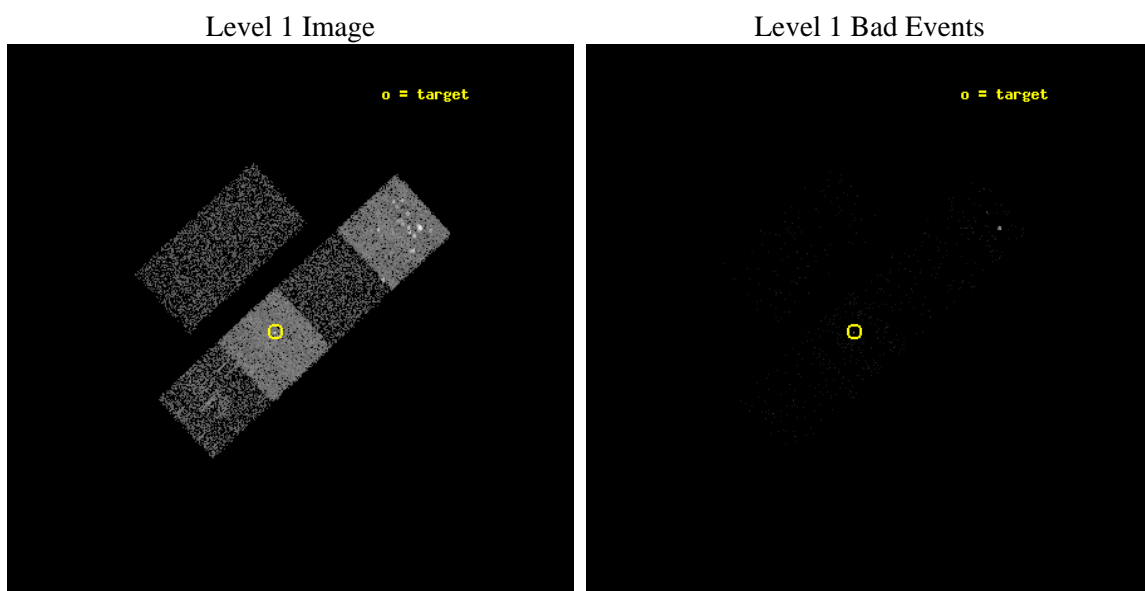
seq_num	780001	Sequence number
obs_id	1051	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.834134681158	Nominal RA
dec_nom	-75.262984506357	Nominal Dec
roll_nom	137.04073391379	Nominal Roll
revision	4	Processing version of data
ontime	1033.4030052572	Sum of GTIs [s]
livetime	1020.3174341641	Livetime [s]
ontime2	1033.3209252581	Sum of GTIs [s]
ontime3	1033.2798852548	Sum of GTIs [s]
ontime5	1033.3619652539	Sum of GTIs [s]
ontime6	1033.1978052557	Sum of GTIs [s]
ontime7	1033.4030052572	Sum of GTIs [s]
ontime8	1033.238845259	Sum of GTIs [s]
l2events	29672	Number of level 2 events



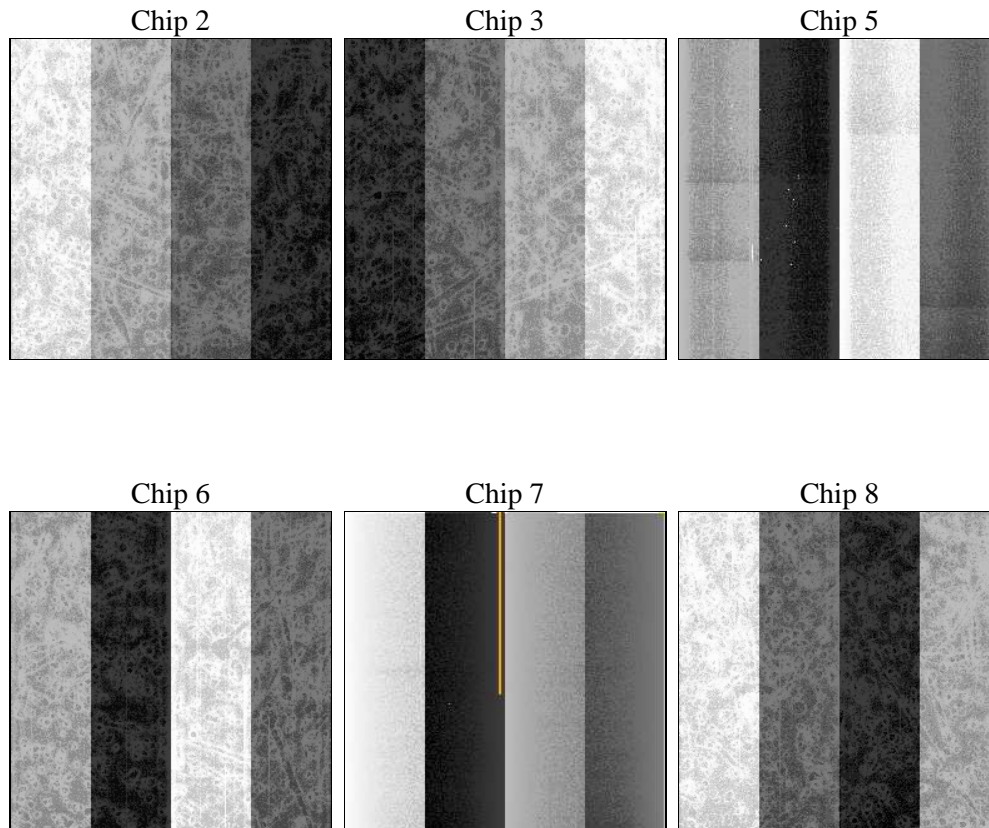
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	1033.4030052572	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	1033.3209252581	Sum of GTIs [s]
date	2009-12-14T05:36:33	Date and time of file creation	ontime3	1033.2798852548	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1033.3619652539	Sum of GTIs [s]
			ontime6	1033.1978052557	Sum of GTIs [s]
			ontime7	1033.4030052572	Sum of GTIs [s]
			ontime8	1033.238845259	Sum of GTIs [s]
			l1events	41334	Number of level 1 events

2.1.4 Events

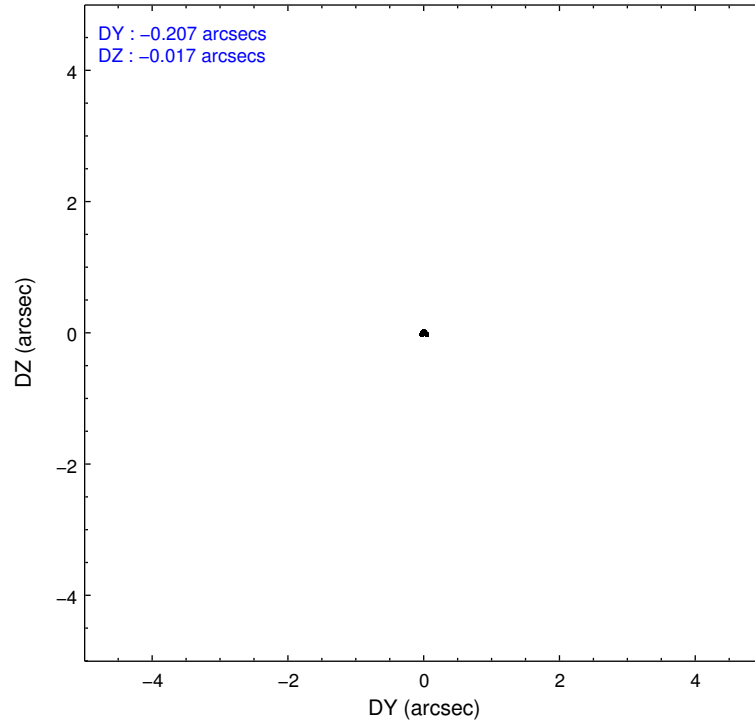
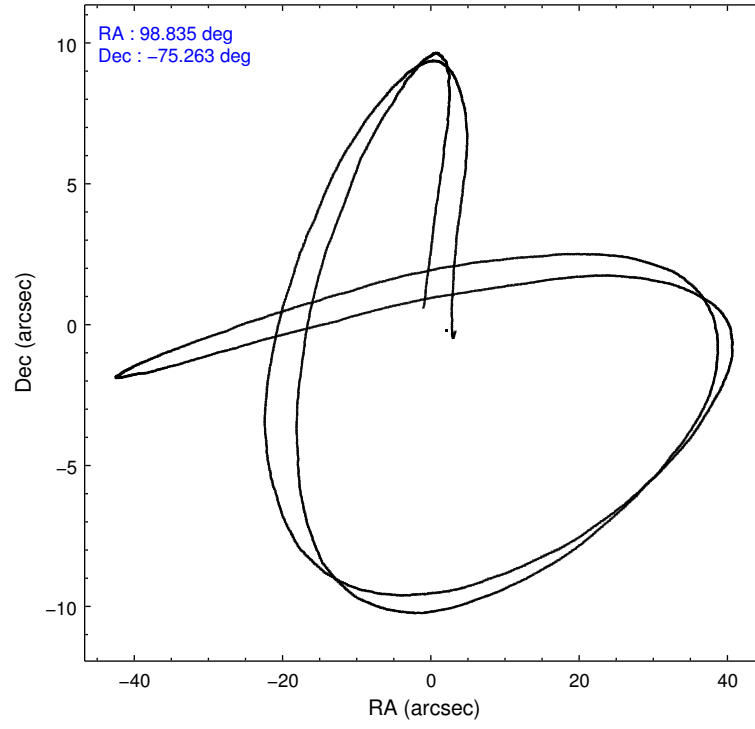
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	2617	2514	16571	2778	13105	3749
rejected events	757	704	1242	826	1526	838
rejected %	28%	28%	7%	29%	11%	22%

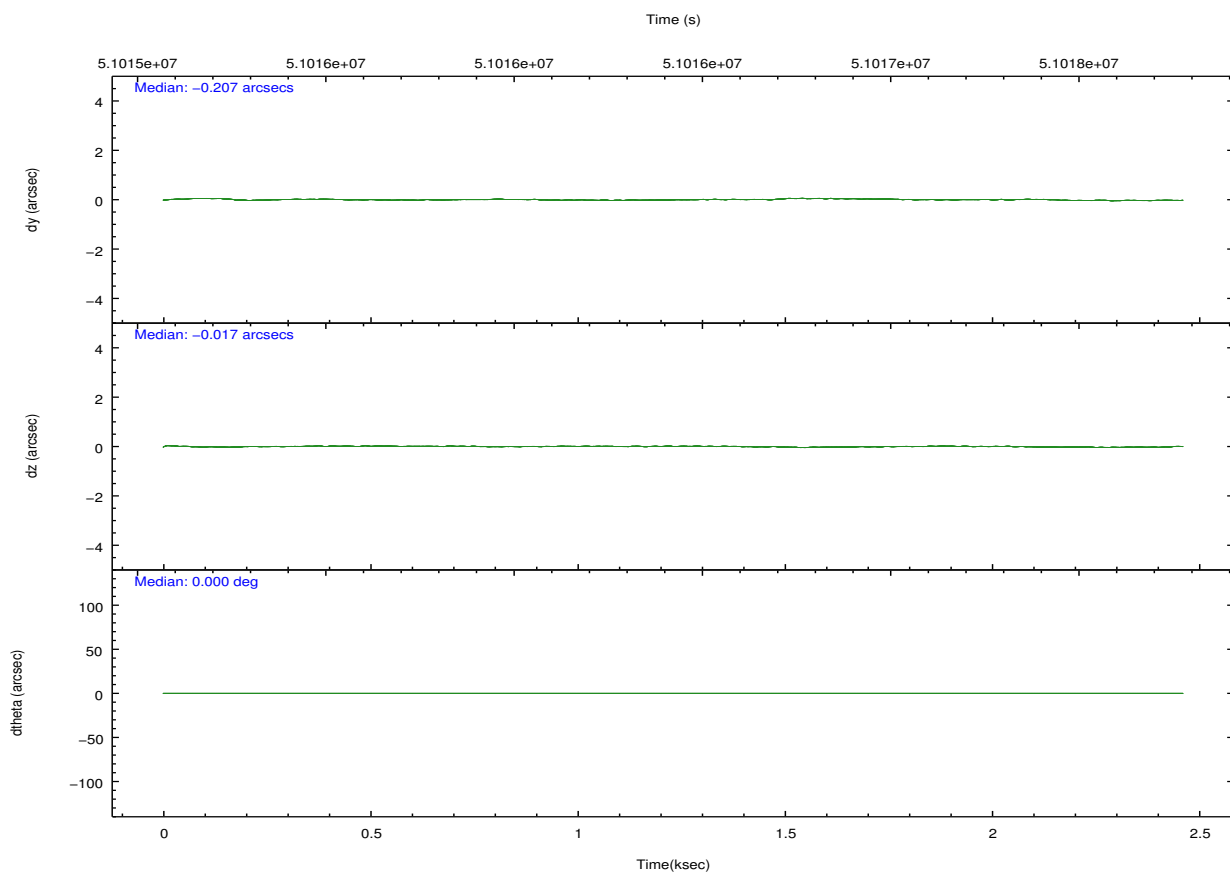
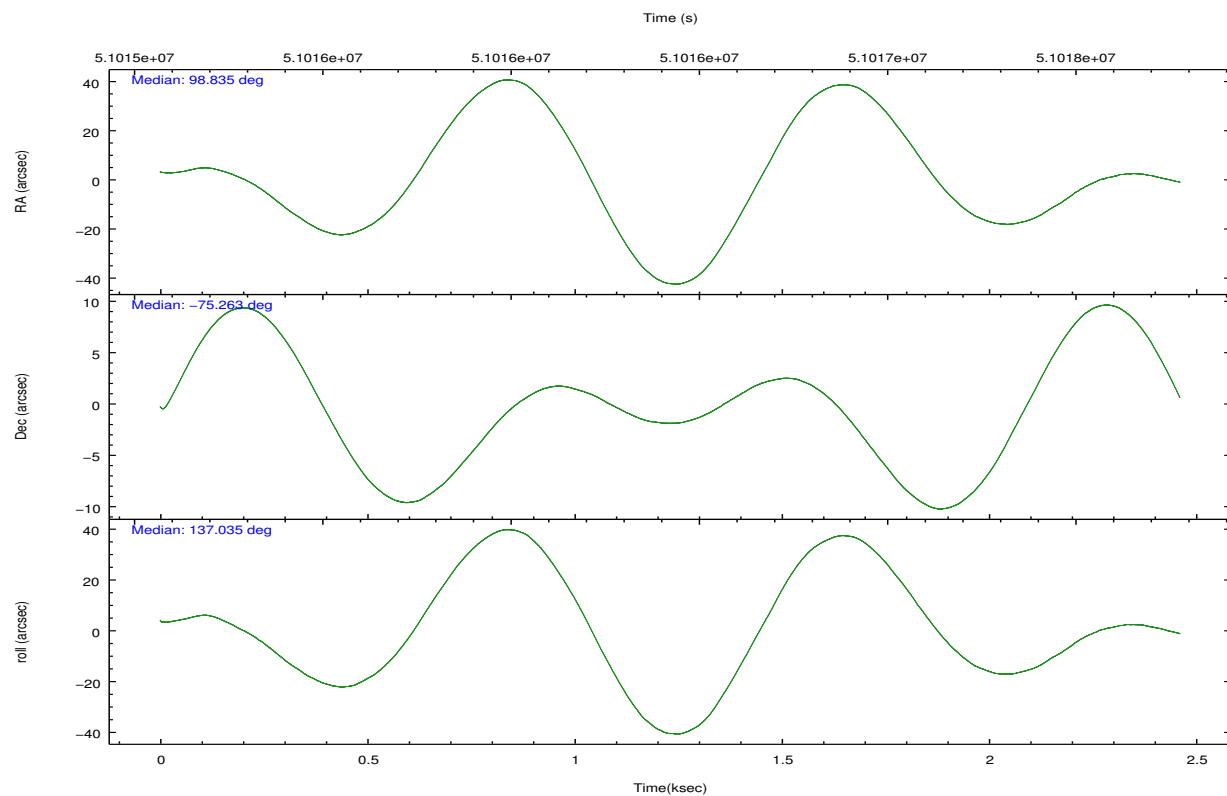
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	459	450	3868	481	938	825
	17%	17%	23%	17%	7%	22%
grade 1 events	5	4	38	2	23	8
	0%	0%	0%	0%	0%	0%
grade 2 events	385	353	2520	400	1593	632
	14%	14%	15%	14%	12%	16%
grade 3 events	180	196	853	193	899	259
	6%	7%	5%	6%	6%	6%
grade 4 events	175	181	710	154	793	296
	6%	7%	4%	5%	6%	7%
grade 5 events	749	697	1010	816	1458	823
	28%	27%	6%	29%	11%	21%
grade 6 events	664	633	7451	732	7401	906
	25%	25%	44%	26%	56%	24%
grade 7 events	0	0	121	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Observation mode	POINTING	POINTING	Number of optional ACIS chips dropped	0	0
Pointing RA	98.940010	98.83413468115762	On-chip summing requested	N	N
Pointing Dec	-75.270007	-75.26298450635727	Subarray requested	NONE	NONE
Pointing Roll	136.986496	137.0407339137924	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	0.255451383487682	Primary exposure time	0.000000	3.2
SIM defocus (mm)	0	0.9397188447875782			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51015664.184000	51014998.374398			
Observation start date	1999-08-14T11:00:00	1999-08-14T10:49:58			
Observation end time	51017664.184000	51017778.174496			
Observation end date	1999-08-14T11:33:20	1999-08-14T11:36:18			
Read mode	TIMED	TIMED			

2.3 Aspect



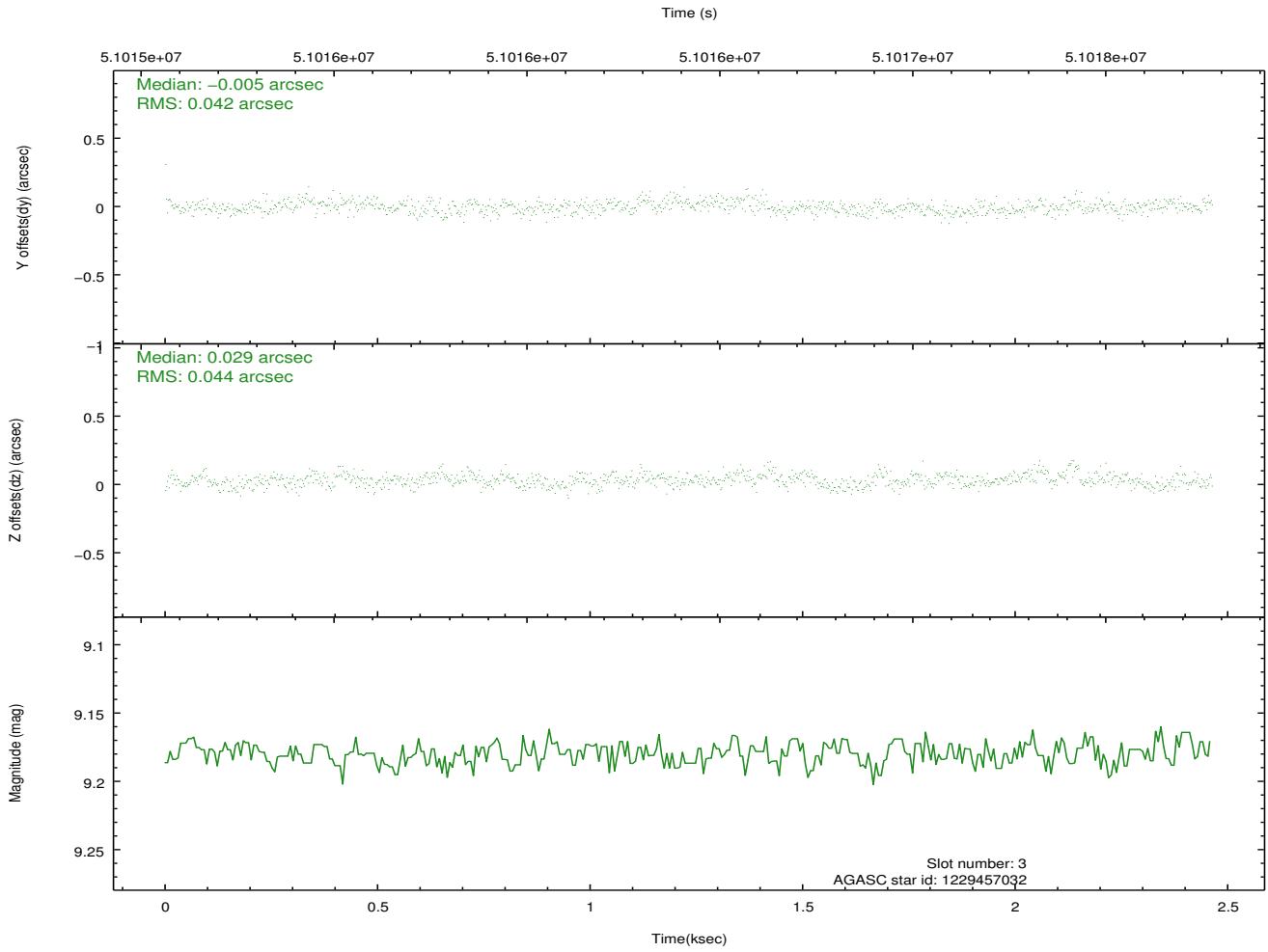
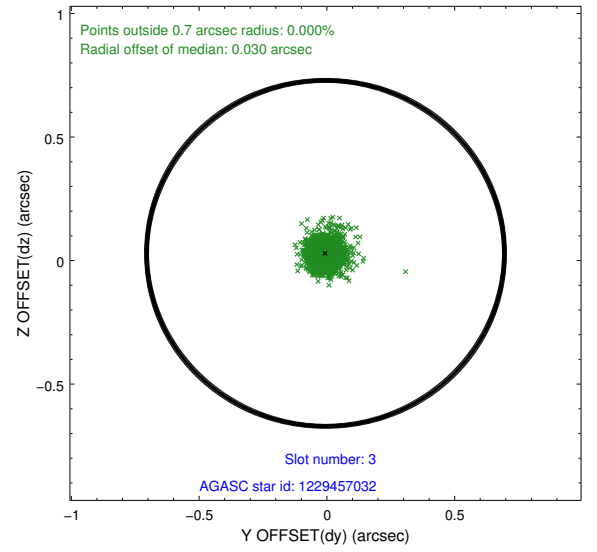
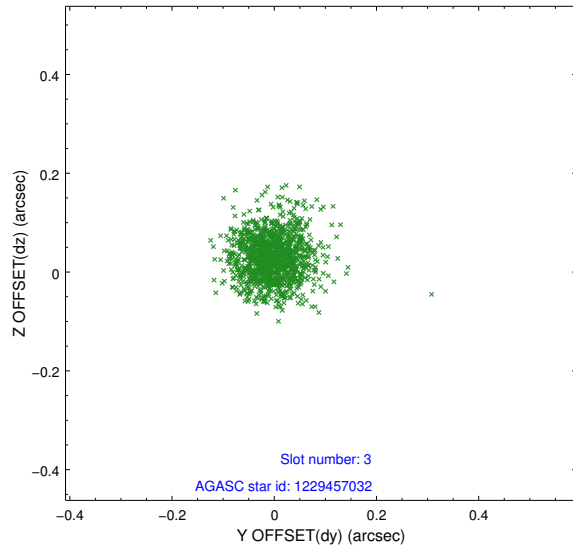


Slot Statistics

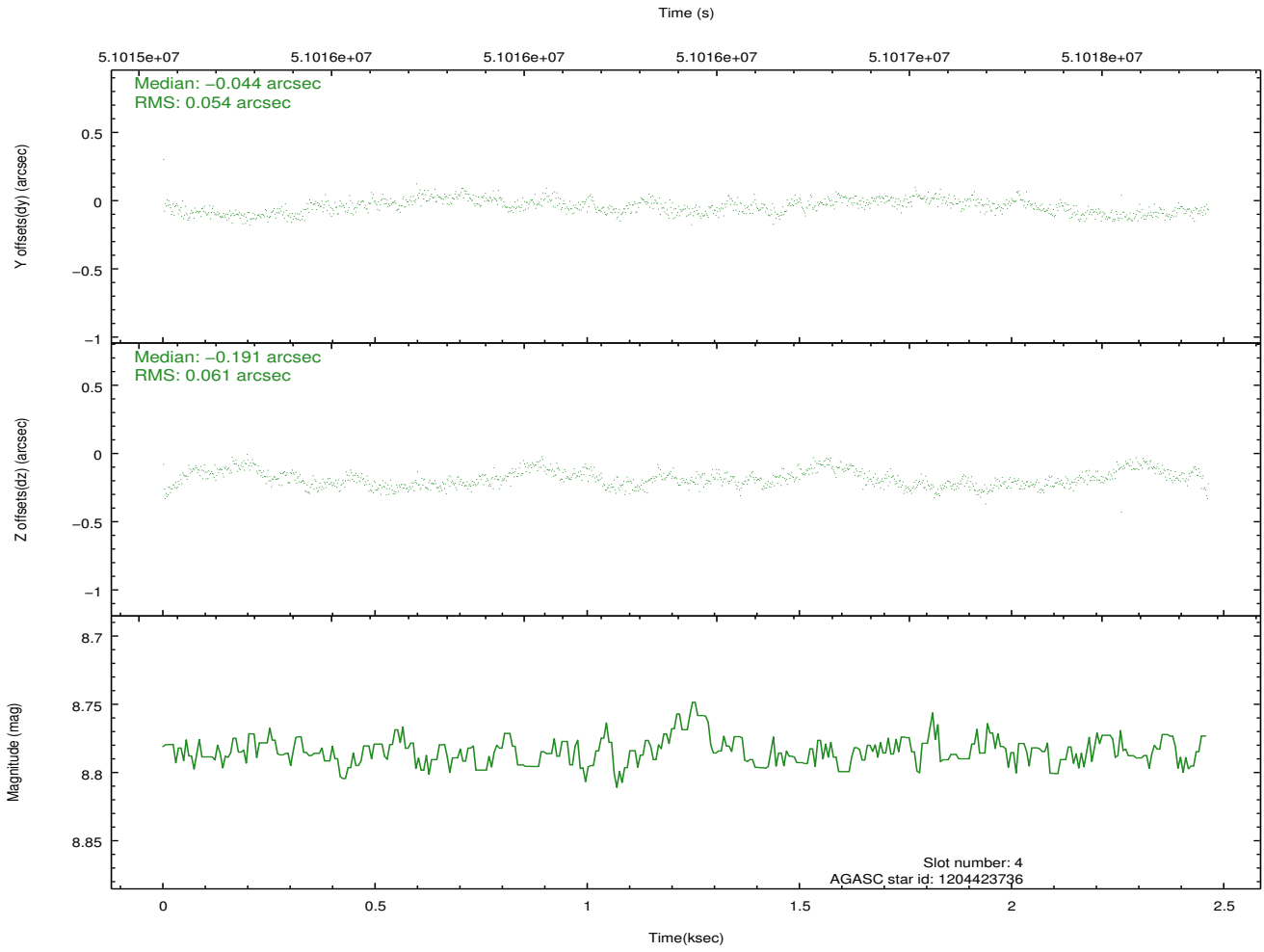
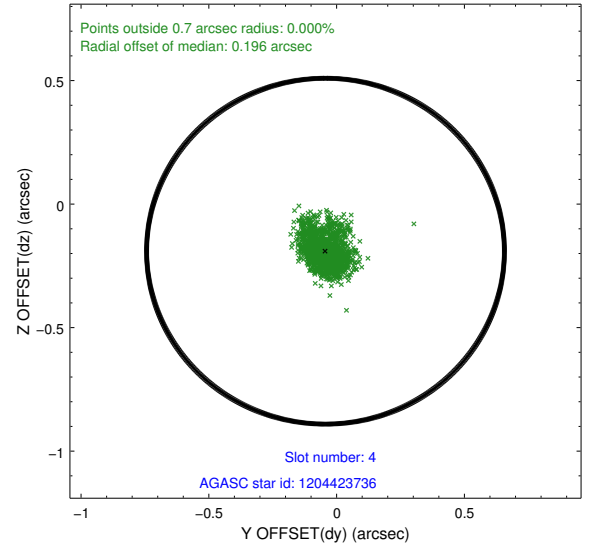
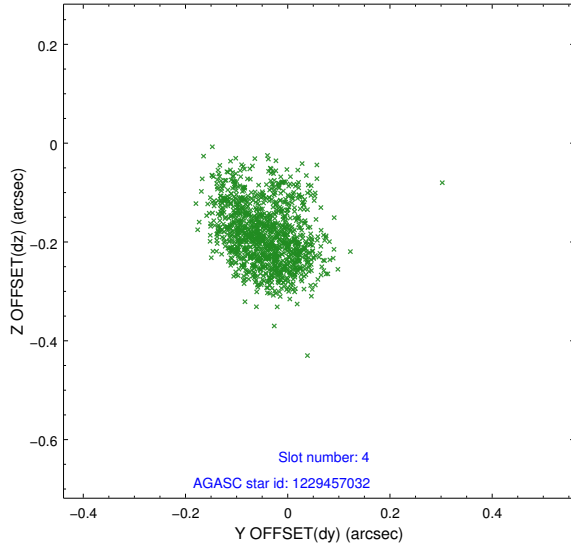
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
2	FID	ACIS-S-6	7.36	1197	-0.007	0.004	0.000	0.000	0.000000	0.000000	409.51	824.80
3	GUIDE	1229457032	9.18	1202	-0.005	0.029	0.064	0.106	100.958417	-75.581890	-2110.69	-389.19
4	GUIDE	1204423736	8.79	1202	-0.044	-0.191	0.087	0.137	99.272017	-74.796122	931.26	-1459.49
5	GUIDE	1229331616	9.91	1202	0.060	-0.104	0.109	0.178	96.182998	-75.347362	1604.88	1958.84
6	GUIDE	1204427552	9.96	1201	-0.031	0.316	0.111	0.171	98.426081	-74.700454	1754.59	-1161.03
7	GUIDE	1229333040	9.79	1198	0.019	-0.055	0.124	0.191	99.562583	-75.788185	-1676.59	991.09

2.4 Star Slots

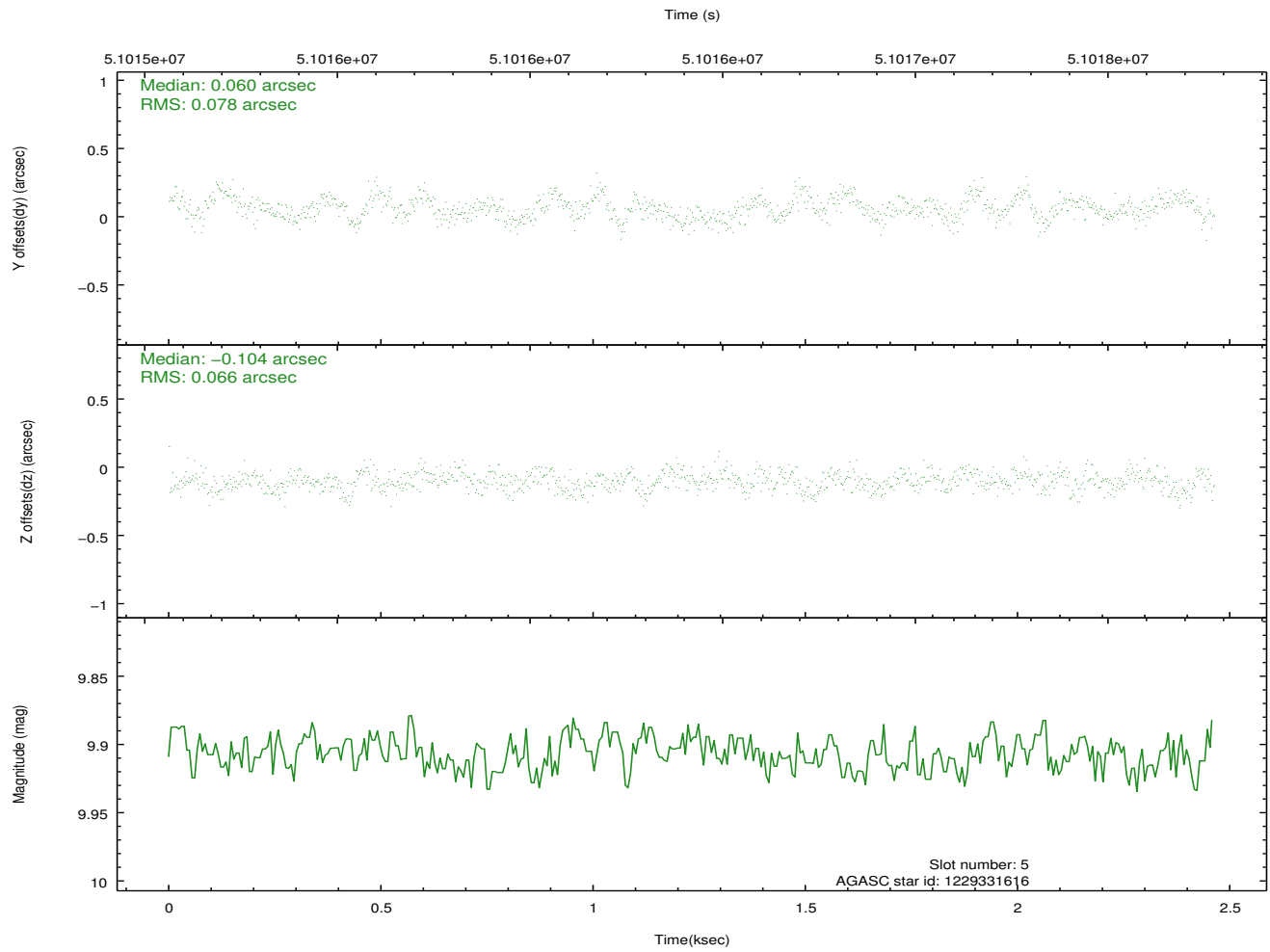
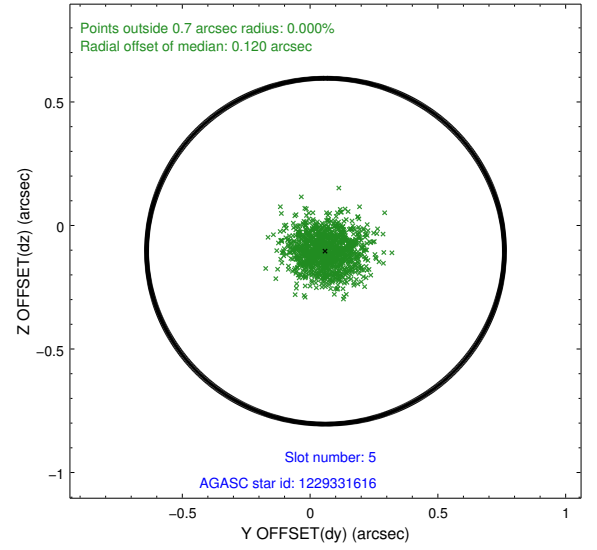
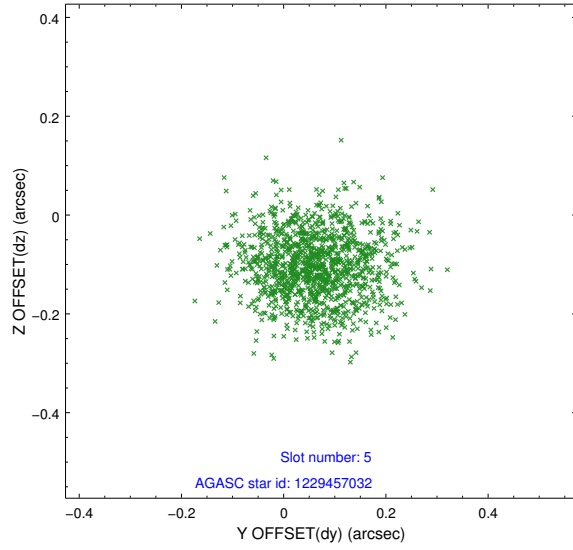
2.4.1 Slot 3



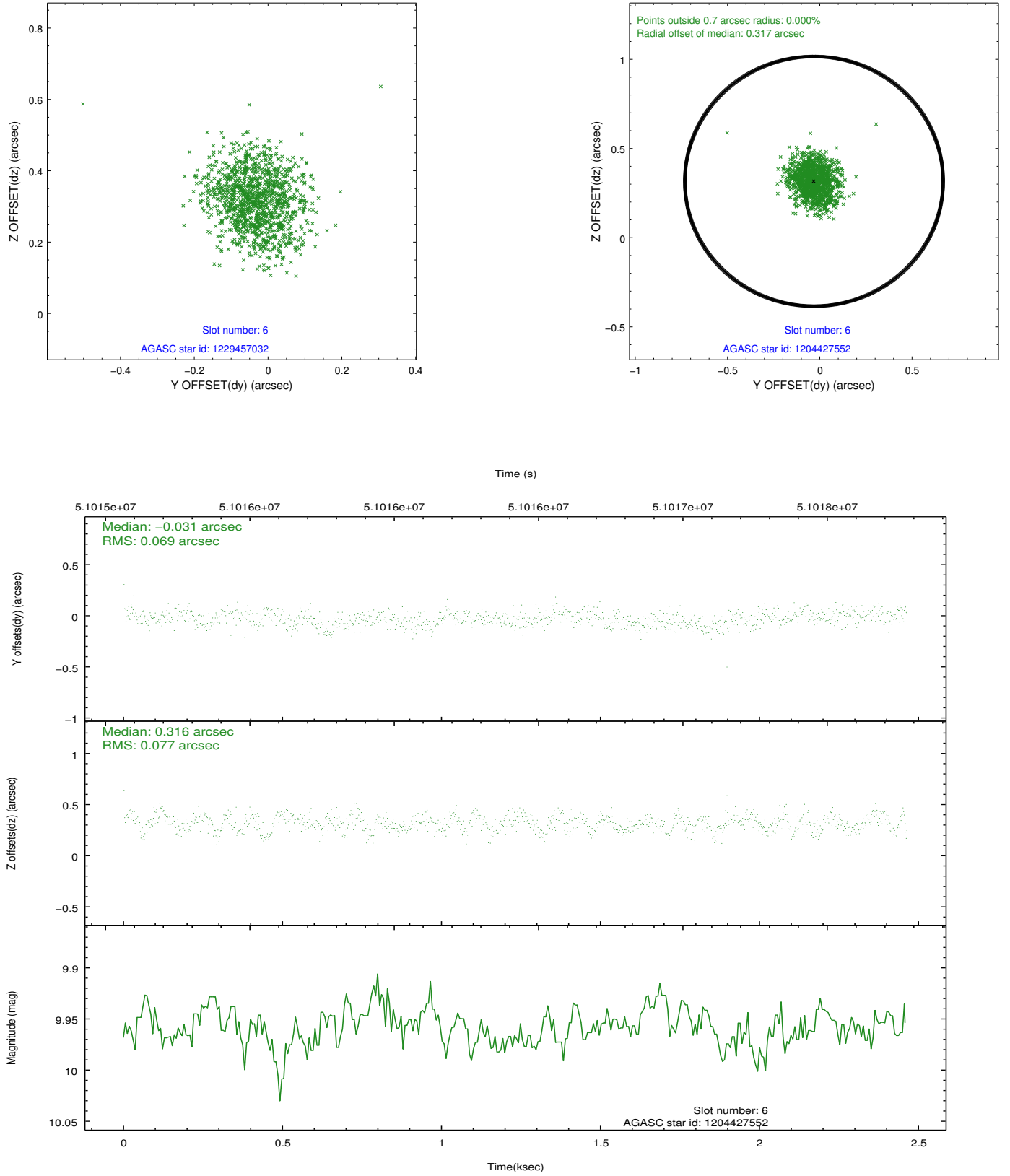
2.4.2 Slot 4



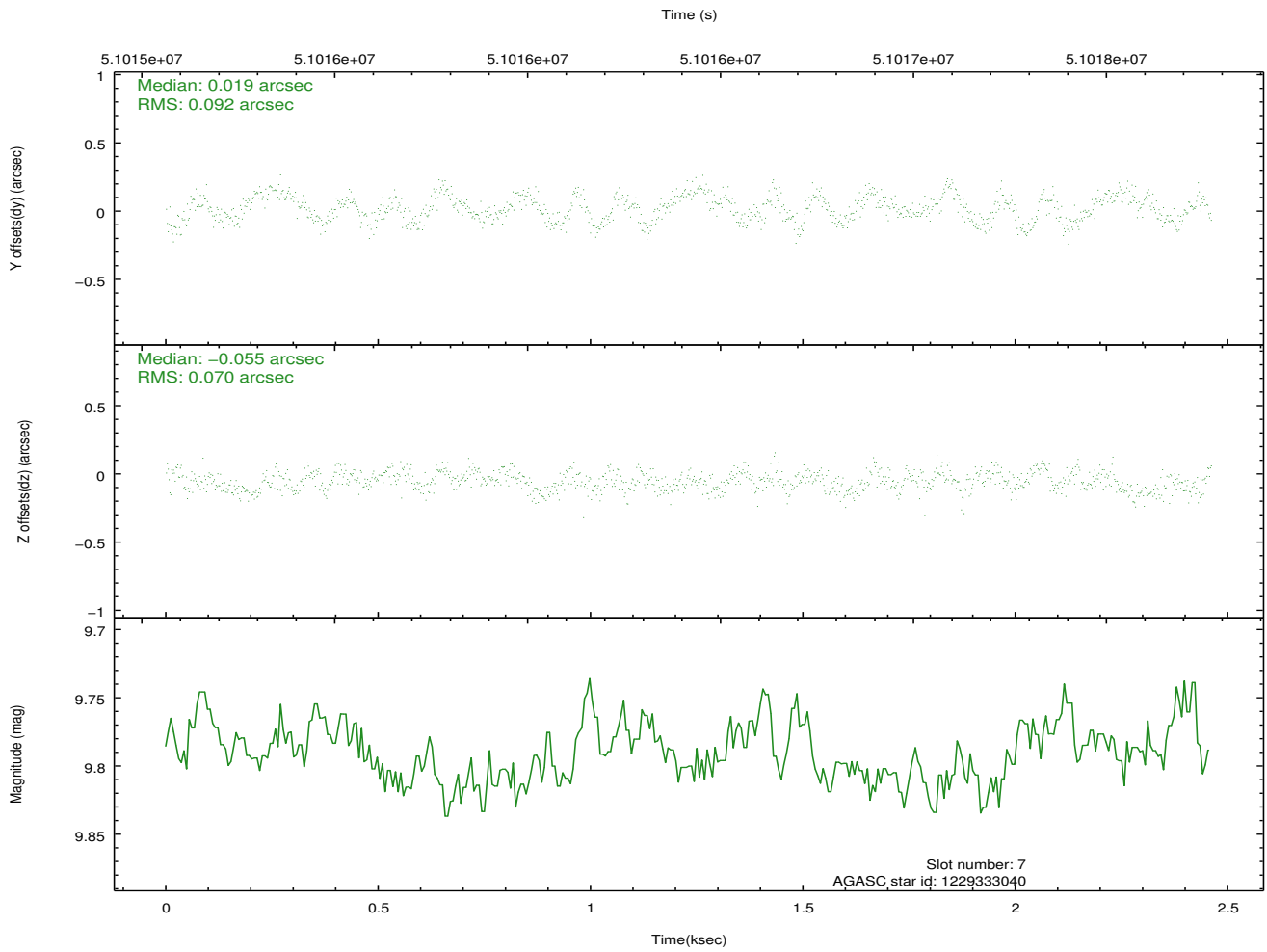
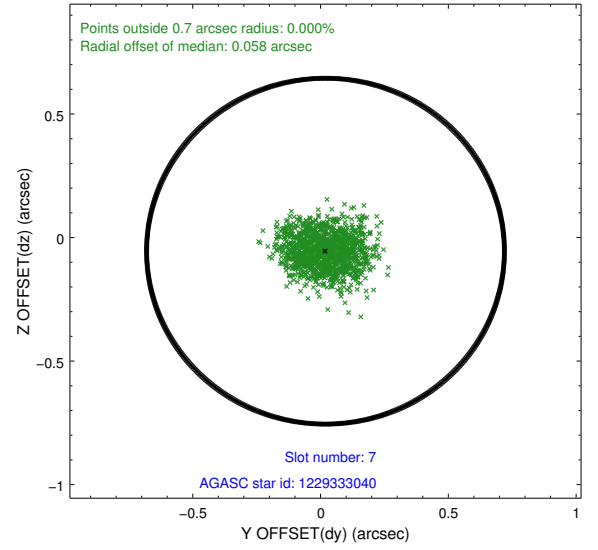
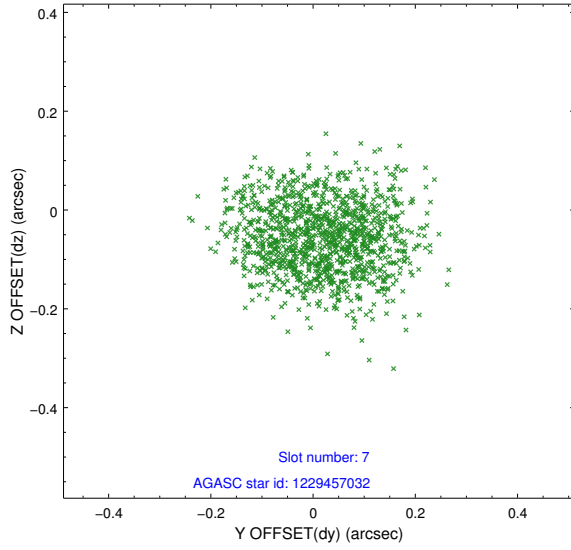
2.4.3 Slot 5



2.4.4 Slot 6

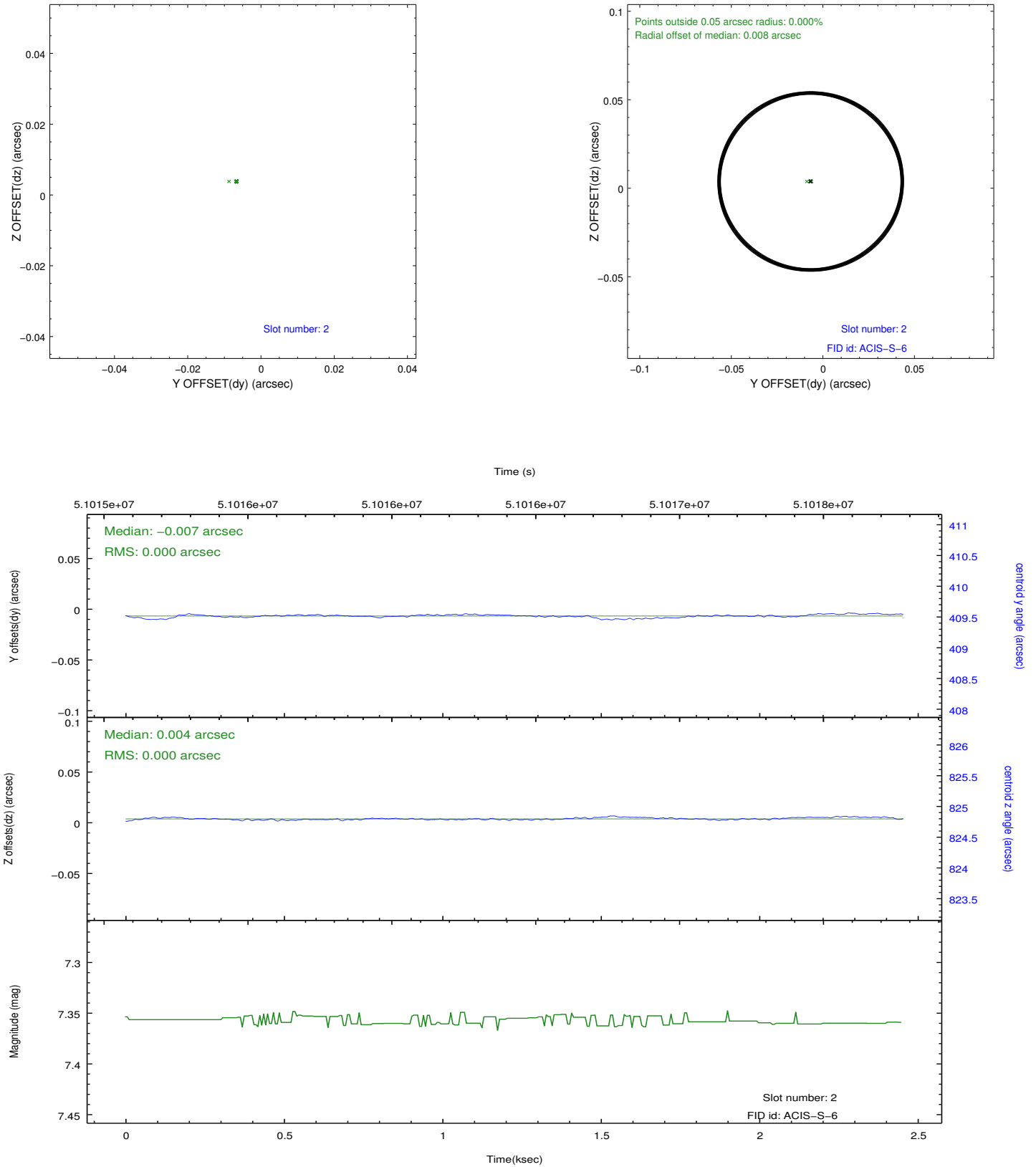


2.4.5 Slot 7

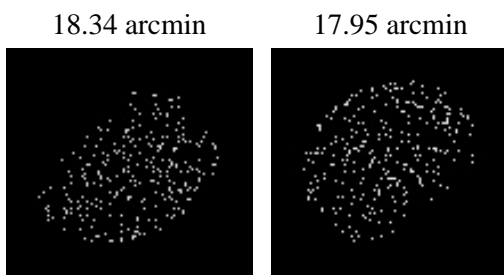


2.5 FID Slots

2.5.1 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.033

A.2 Comments

Due to operational issues that were later resolved, only 1 of 3 fid lights was acquired for this observation.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.