

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1230 - L2 Version 3
Chandra X-Ray Center

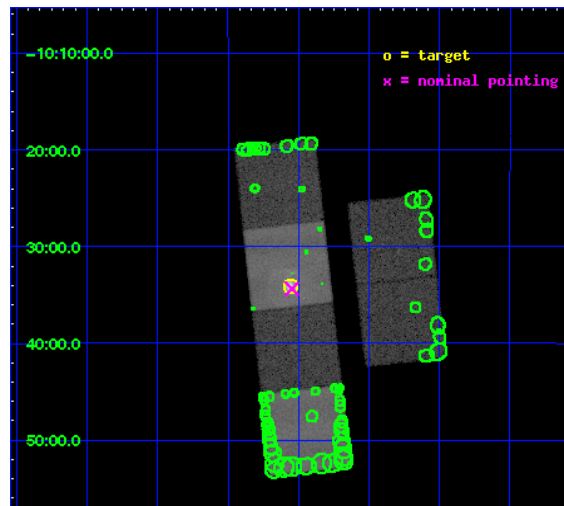
L2 Processing Date : Dec 16 2009

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1 Front

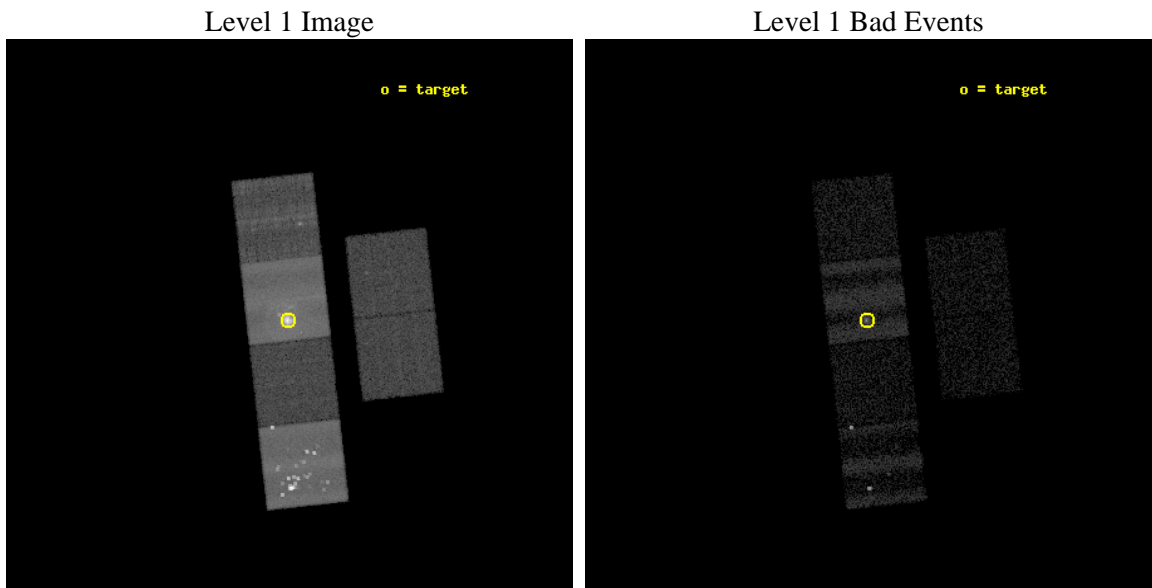
seq_num	580180	Sequence number
obs_id	1230	Observation id
title	ACIS CHIP RESPONSE TO A CONTINUUM SOURCE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S3, T=100, Offsets=0,0,0 Std Cand]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA
dec_targ	-10.568528	Observer's specified target Dec
ra_nom	278.38678693465	Nominal RA
dec_nom	-10.573081378866	Nominal Dec
roll_nom	263.67593458495	Nominal Roll
revision	3	Processing version of data
ontime	14745.477083221	Sum of GTIs [s]
livetime	14558.760973733	Livetime [s]
ontime2	14745.477023378	Sum of GTIs [s]
ontime3	14745.477003448	Sum of GTIs [s]
ontime5	14748.717963666	Sum of GTIs [s]
ontime6	14748.717963666	Sum of GTIs [s]
ontime7	14745.477083221	Sum of GTIs [s]
ontime8	14745.477003448	Sum of GTIs [s]
l2events	334853	Number of level 2 events



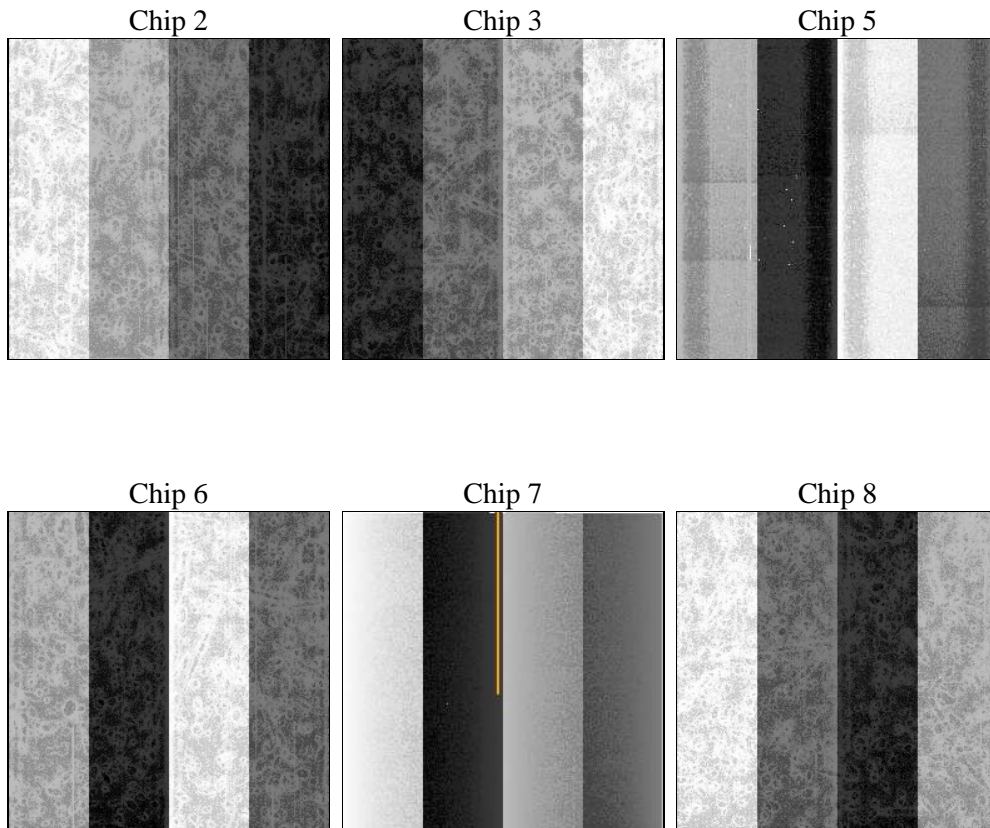
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	14745.477083221	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	14745.477023378	Sum of GTIs [s]
date	2009-12-16T08:33:45	Date and time of file creation	ontime3	14745.477003448	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	14748.717963666	Sum of GTIs [s]
			ontime6	14748.717963666	Sum of GTIs [s]
			ontime7	14745.477083221	Sum of GTIs [s]
			ontime8	14745.477003448	Sum of GTIs [s]
			l1events	483057	Number of level 1 events

2.1.4 Events

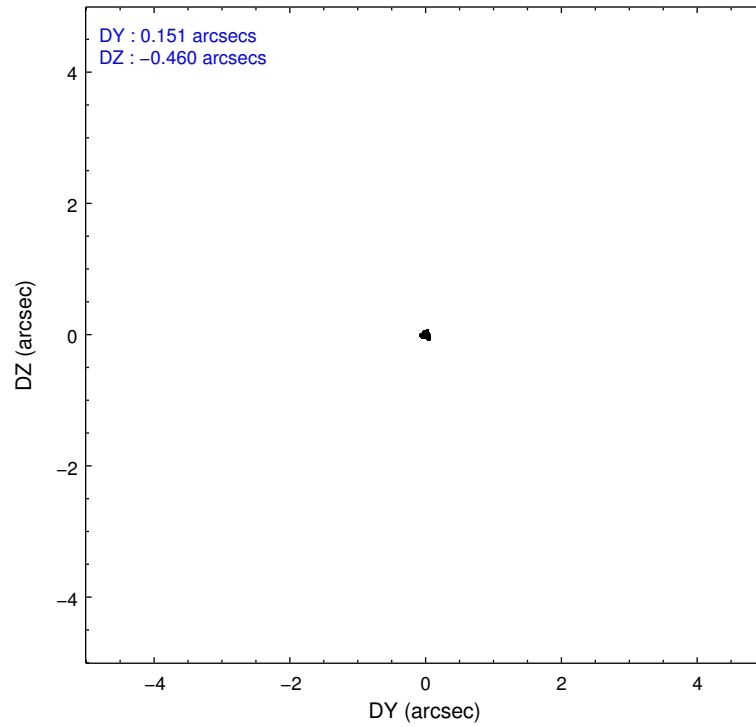
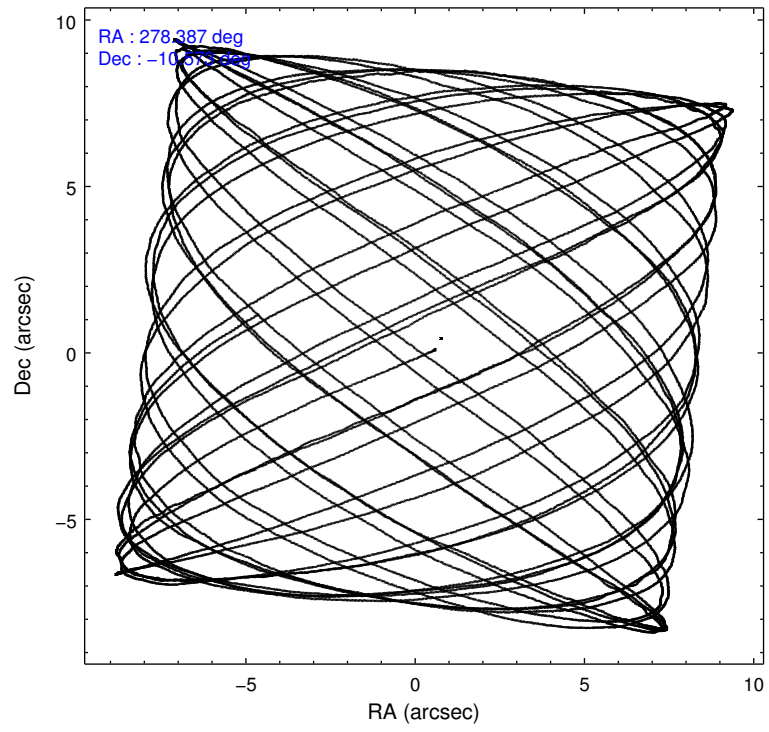
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30224	30846	173902	33506	167822	46757
rejected events	7595	8050	13537	8524	18332	9725
rejected %	25%	26%	7%	25%	10%	20%

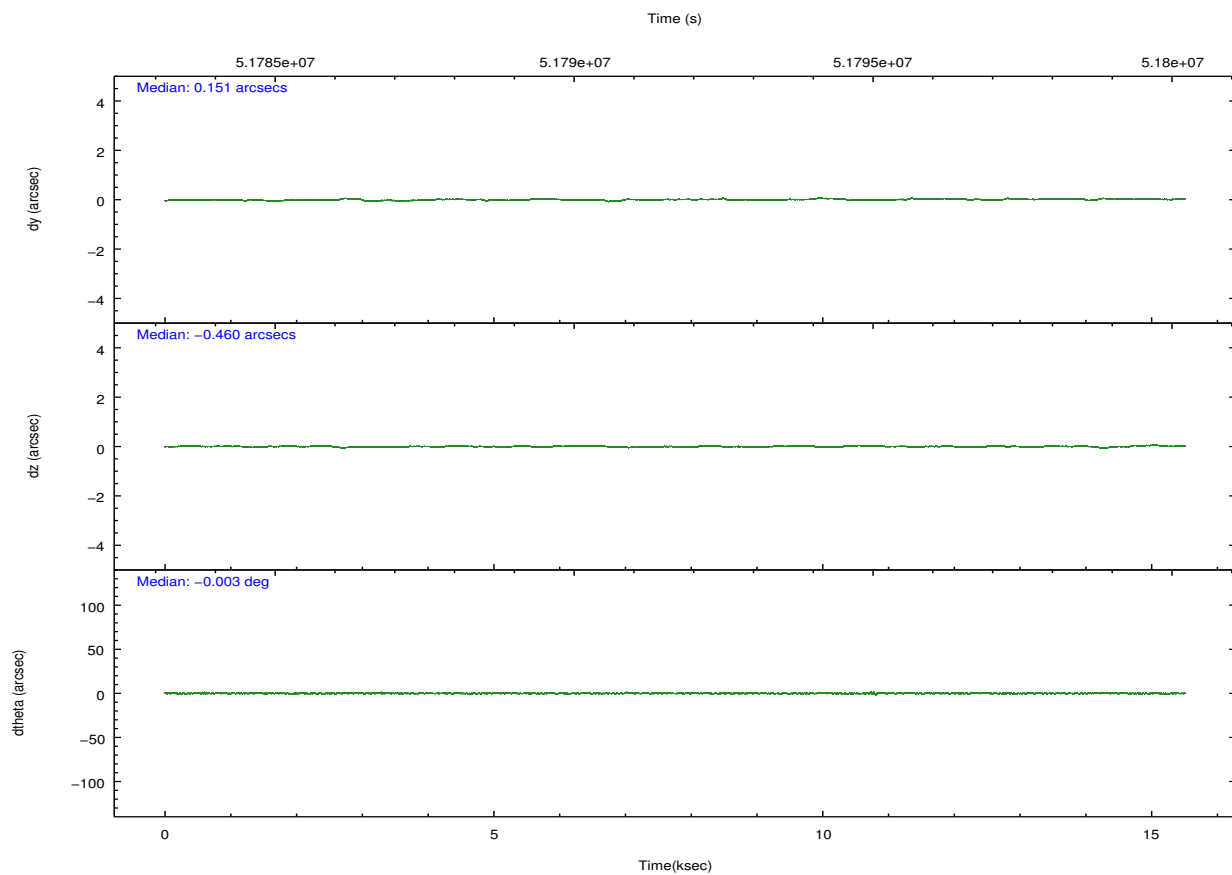
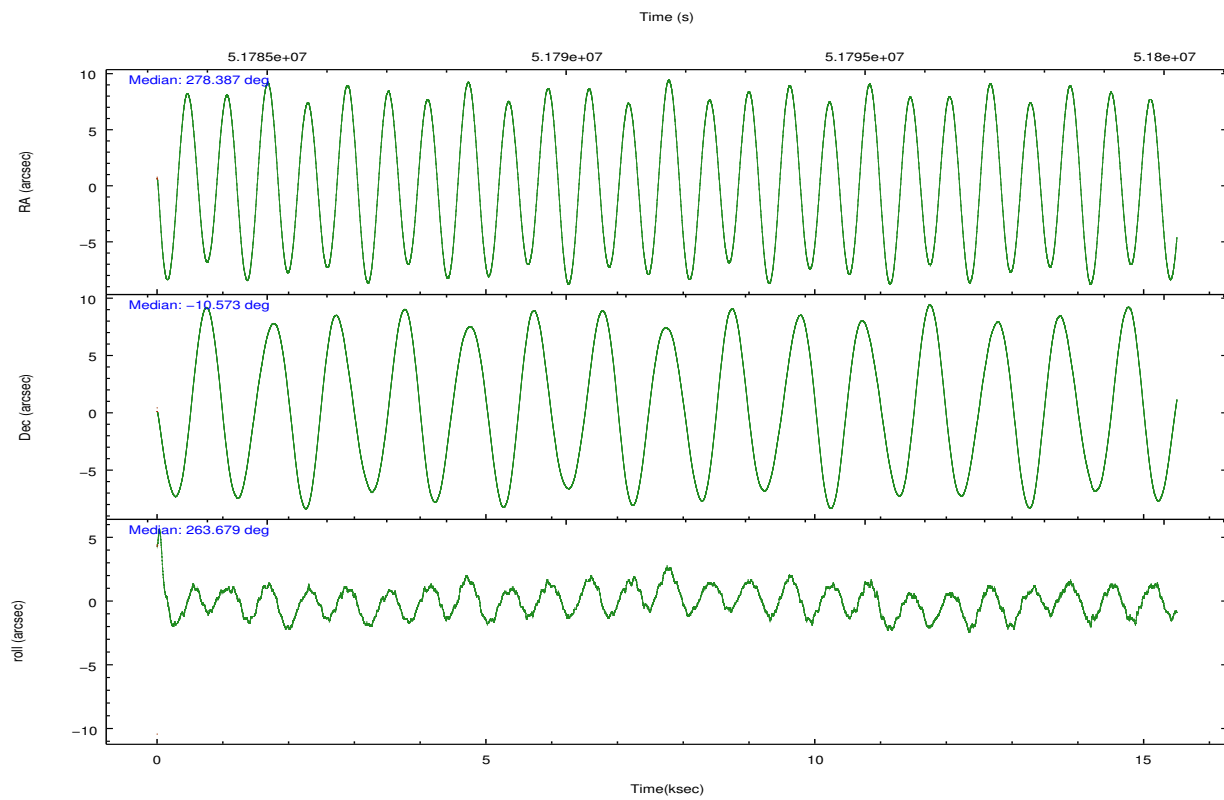
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5746	5864	47525	5988	13180	9605
	19%	19%	27%	17%	7%	20%
grade 1 events	39	44	1198	46	167	90
	0%	0%	0%	0%	0%	0%
grade 2 events	5098	5066	27090	5744	22388	9390
	16%	16%	15%	17%	13%	20%
grade 3 events	1983	1972	6565	1924	15279	3106
	6%	6%	3%	5%	9%	6%
grade 4 events	1862	1791	5790	1690	12131	2656
	6%	5%	3%	5%	7%	5%
grade 5 events	7553	8004	12132	8472	18139	9632
	24%	25%	6%	25%	10%	20%
grade 6 events	7943	8105	73429	9641	86538	12278
	26%	26%	42%	28%	51%	26%
grade 7 events	0	0	173	1	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
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	278.375965	278.3867869346548	Subarray requested	NONE	NONE
Pointing Dec	-10.547559	-10.57308137886599	Alternating exposures requested	N	N
Pointing Roll	263.517321	263.6759345849464	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.865731118321573			
SIM defocus (mm)	0	-0.1814636570216768			
SIM translation stage pos (mm)	-190.132523	-190.1199515274594			
SIM translation stage offset (mm)	0	-0.012571055548392			
Observation start time	51784441.184000	51783768.335455			
Observation start date	1999-08-23T08:32:57	1999-08-23T08:22:48			
Observation end time	51799441.184000	51799568.711023			
Observation end date	1999-08-23T12:42:57	1999-08-23T12:46:08			
Read mode	TIMED	TIMED			

2.3 Aspect



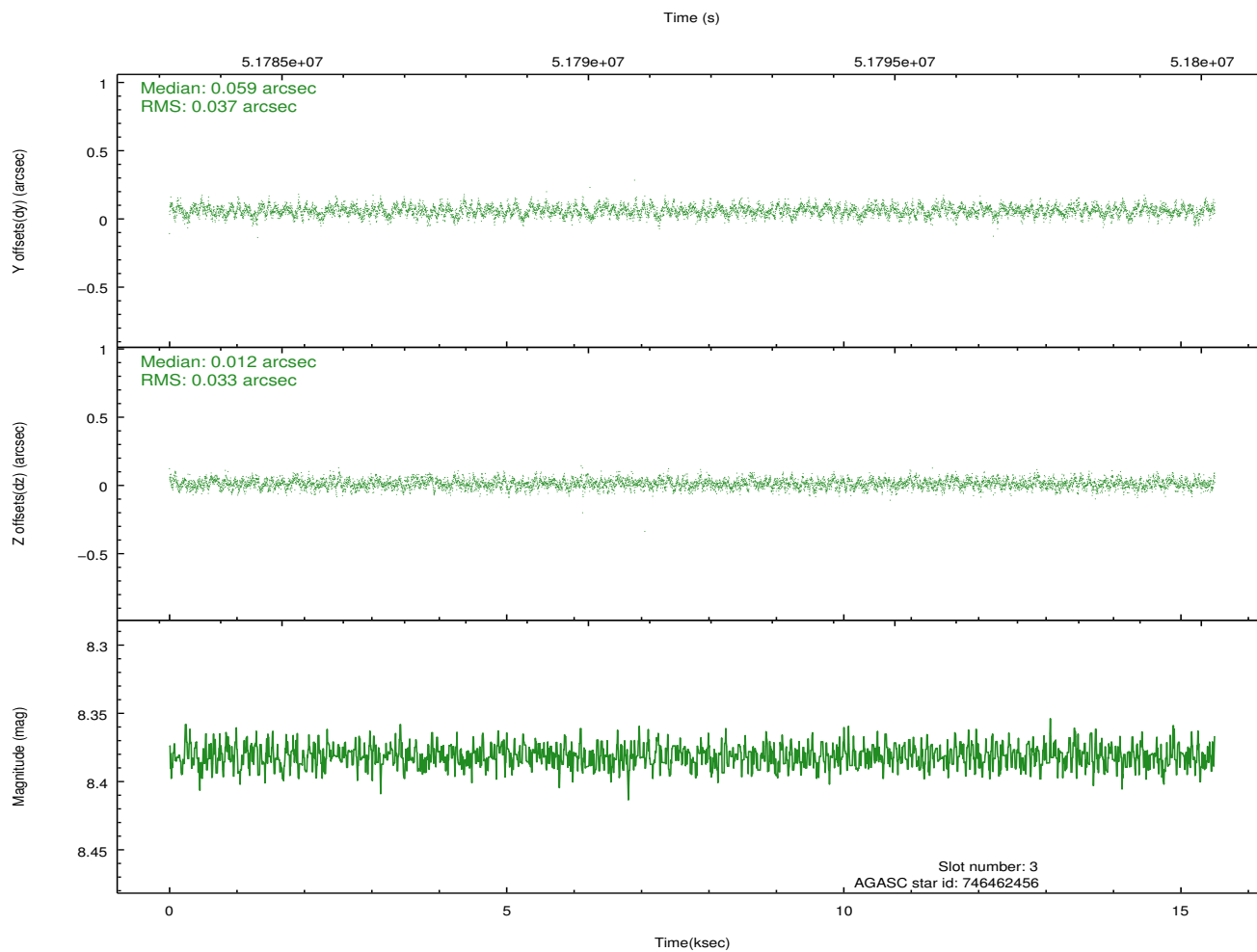
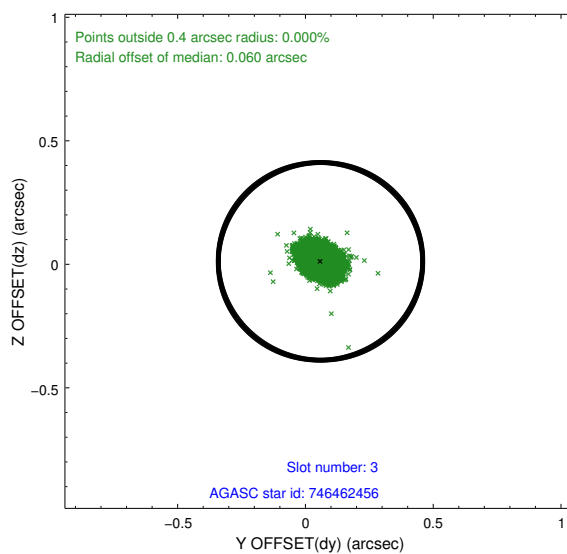
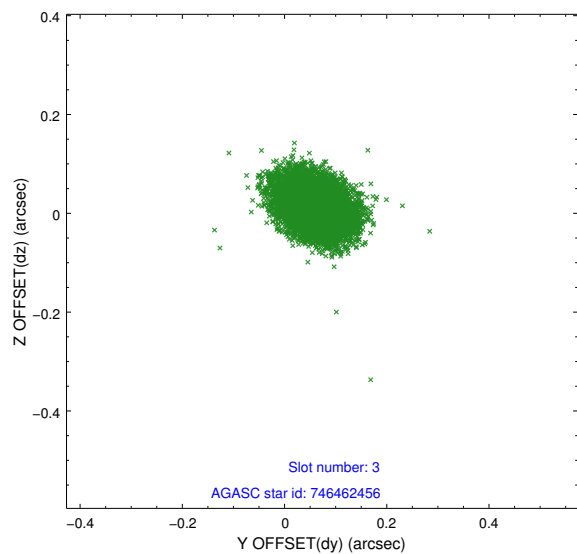


Slot Statistics

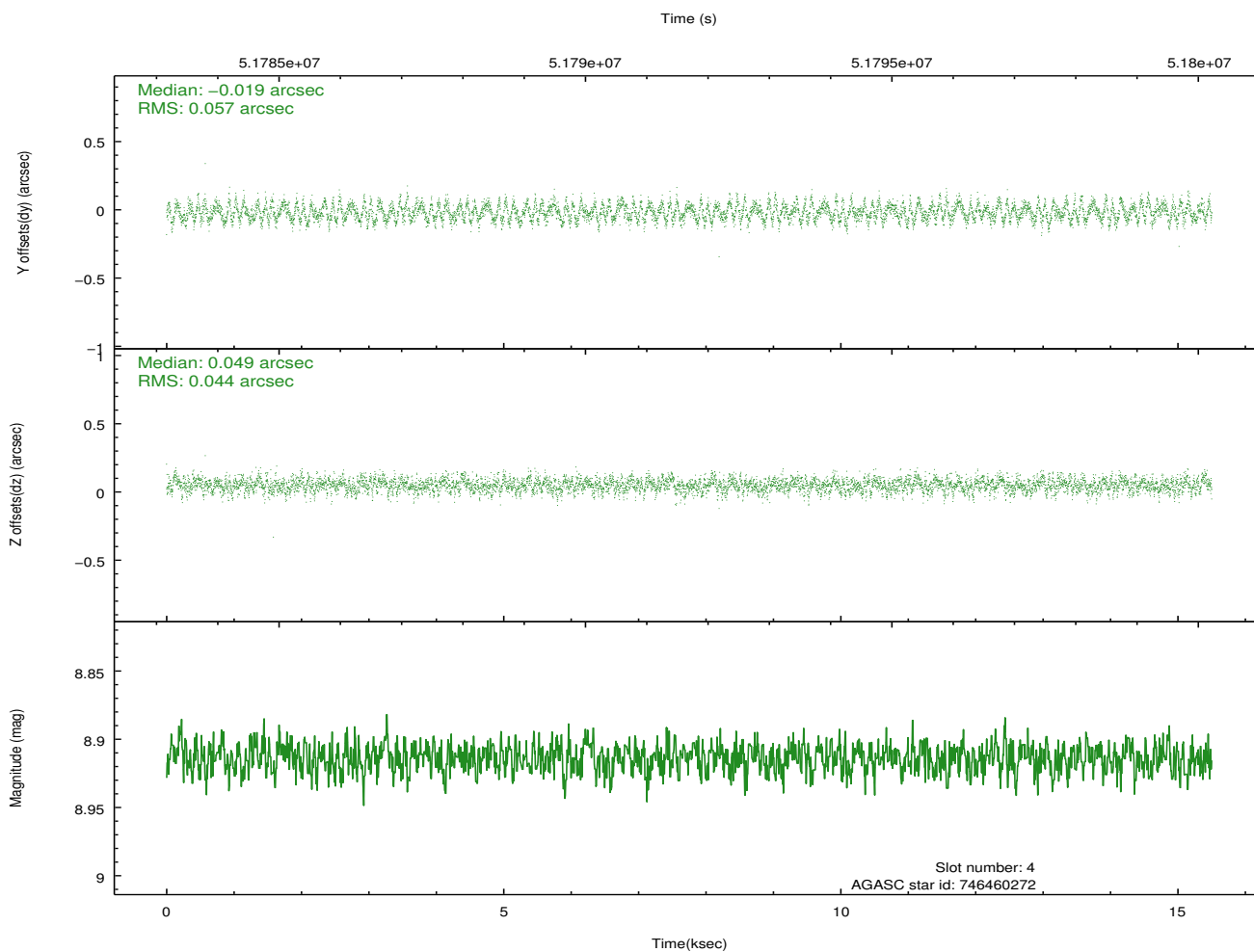
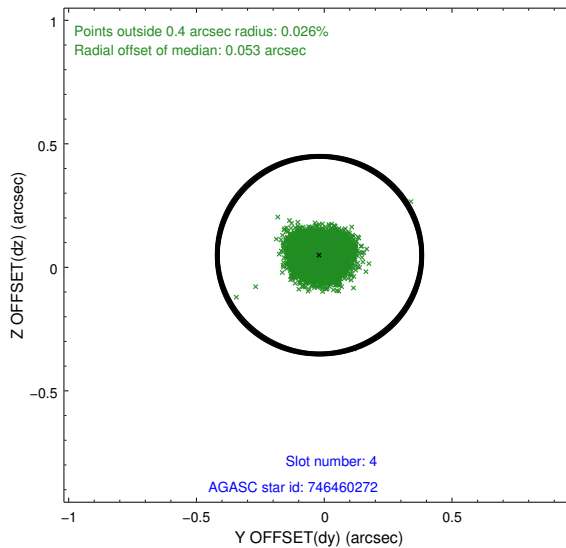
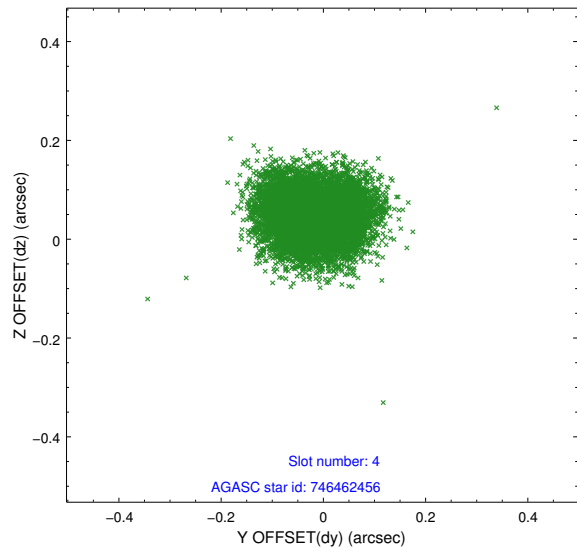
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	7558	-0.030	-0.031	0.007	0.011	0.000000	0.000000	-752.77	-1720.90
1	FID	ACIS-S-4	7.22	7556	0.138	0.023	0.006	0.011	0.000000	0.000000	2160.64	187.47
2	FID	ACIS-S-5	7.25	7557	-0.140	0.017	0.007	0.011	0.000000	0.000000	-1805.57	181.31
3	GUIDE	746462456	8.38	7555	0.059	0.012	0.052	0.086	278.652171	-10.530173	-172.06	964.96
4	GUIDE	746460272	8.91	7555	-0.019	0.049	0.077	0.120	278.847488	-10.152127	-1601.84	1500.57
5	GUIDE	746460328	9.80	7548	-0.075	-0.069	0.108	0.181	278.603974	-9.898096	-2414.40	540.43
6	GUIDE	746461728	9.79	7547	0.033	-0.002	0.101	0.158	278.986921	-10.530755	-302.32	2142.69
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

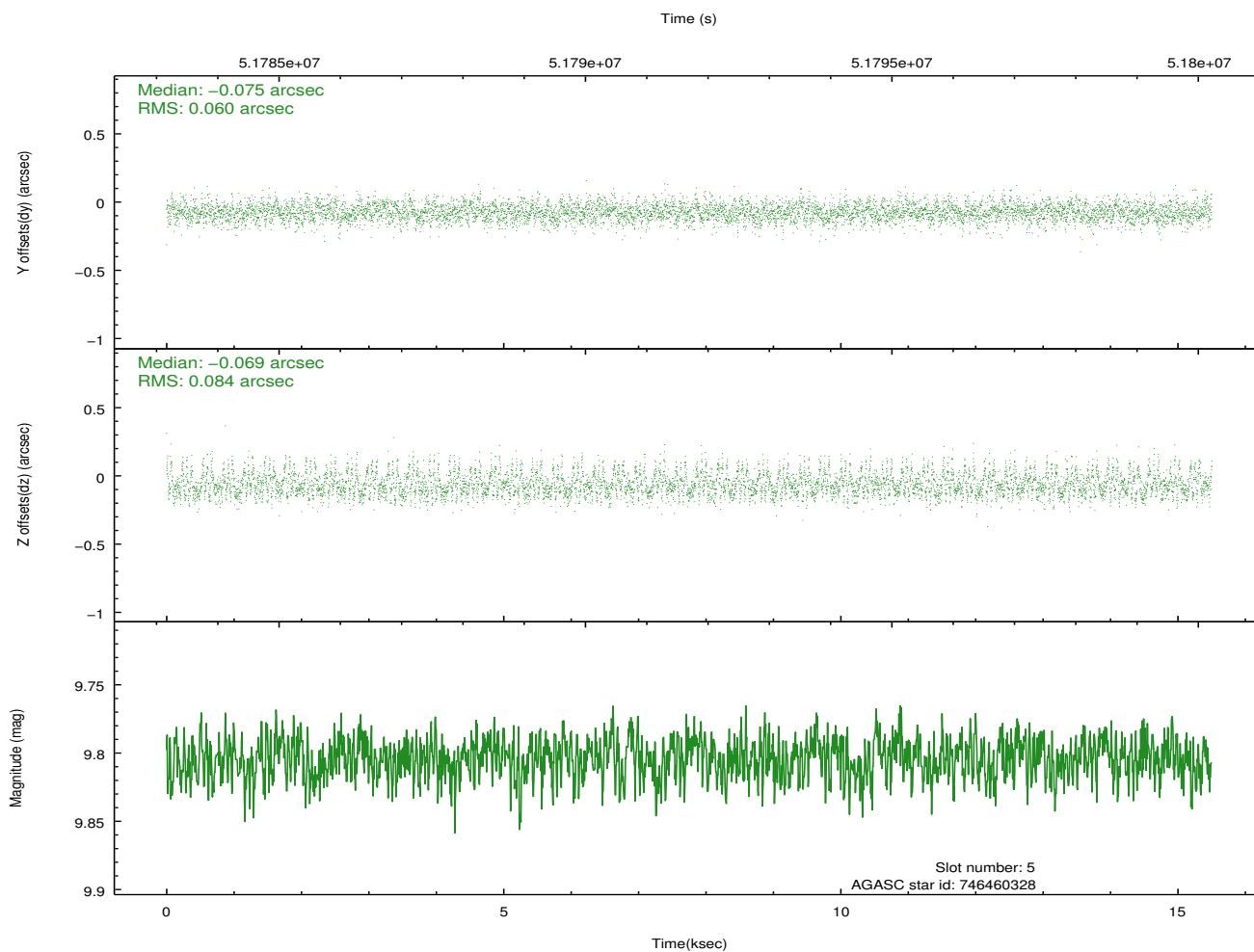
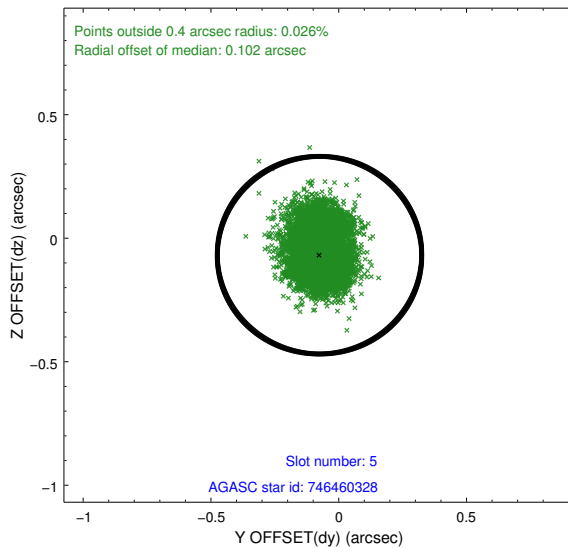
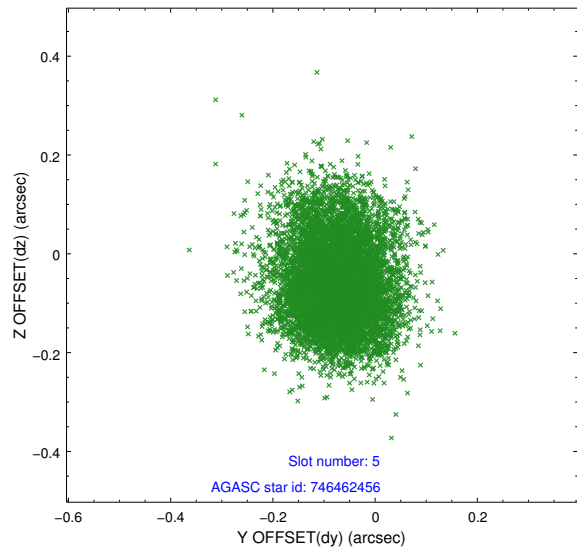
2.4.1 Slot 3



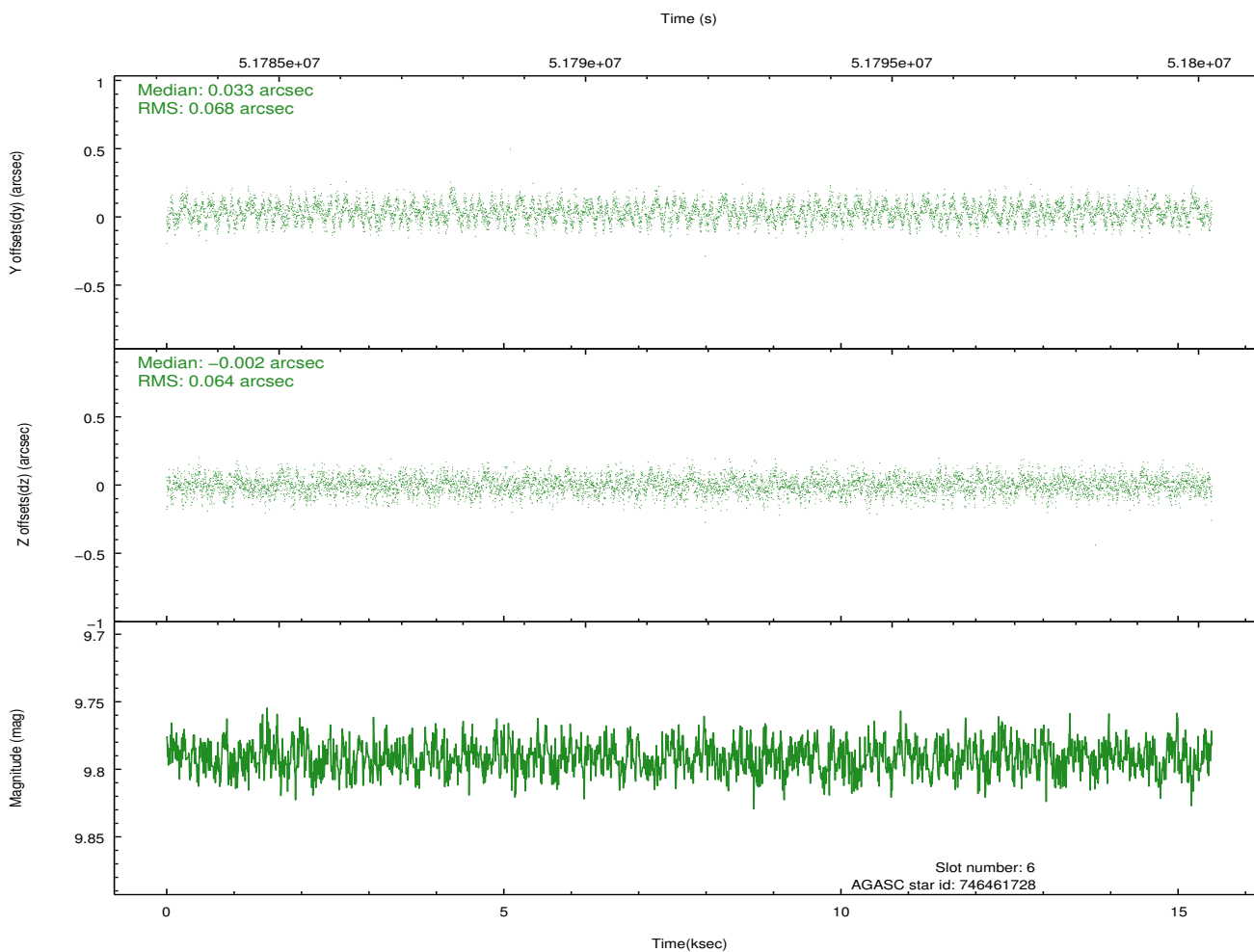
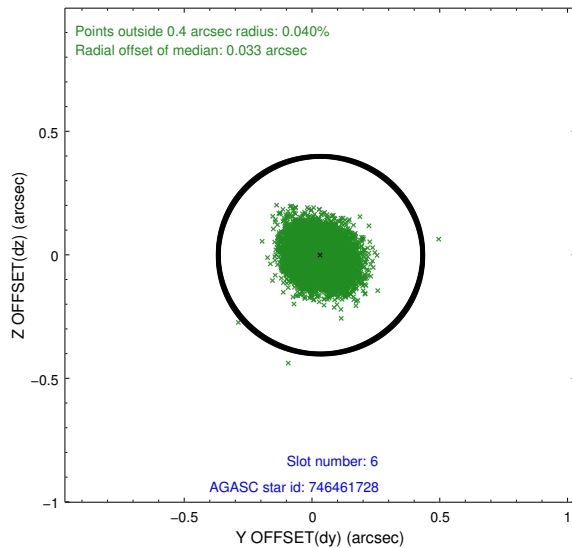
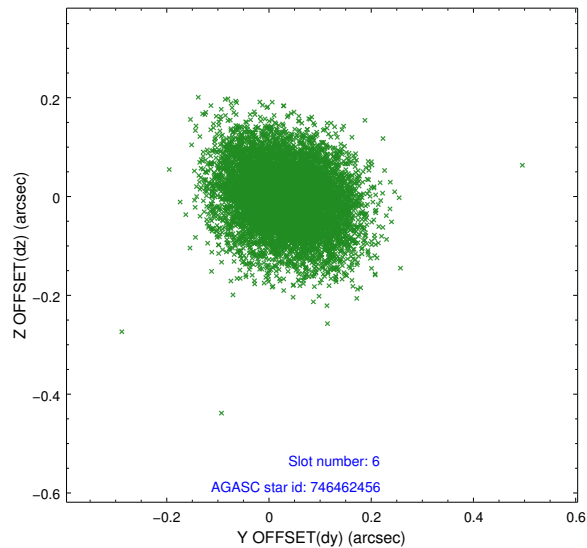
2.4.2 Slot 4



2.4.3 Slot 5

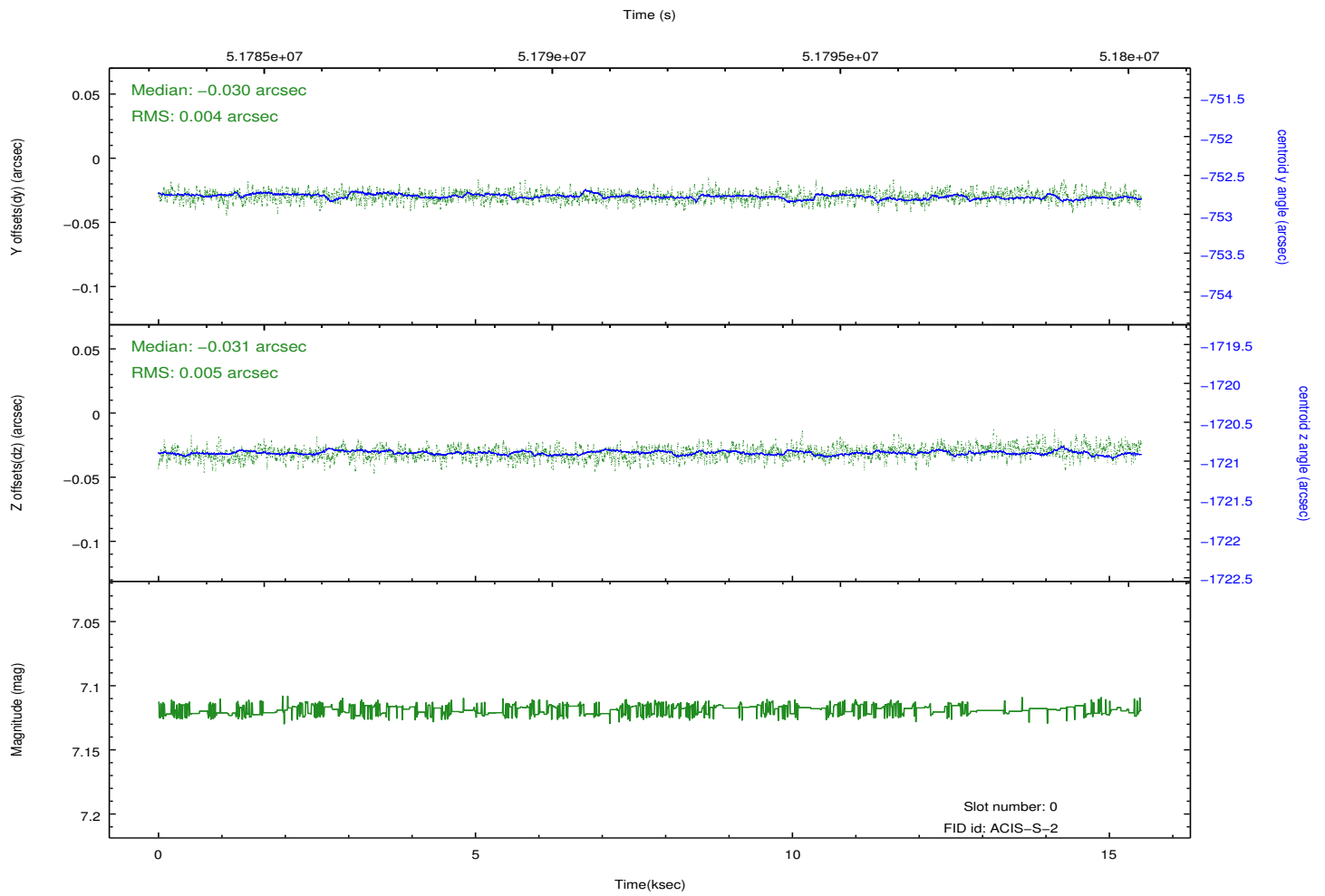
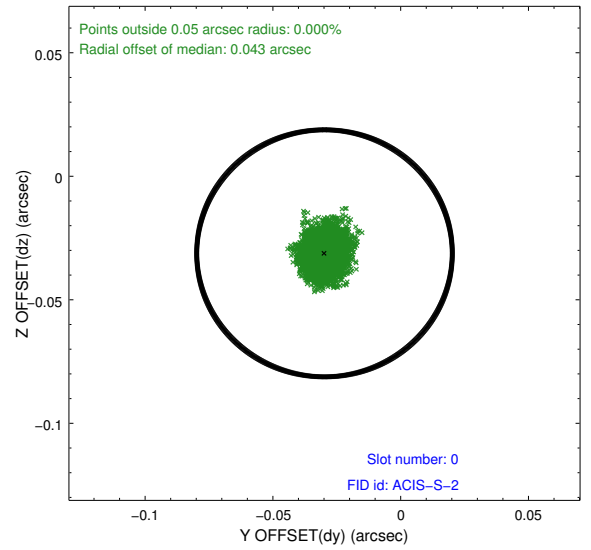
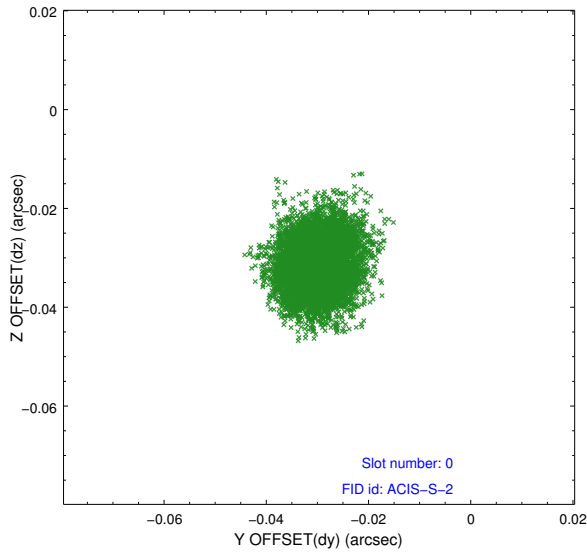


2.4.4 Slot 6

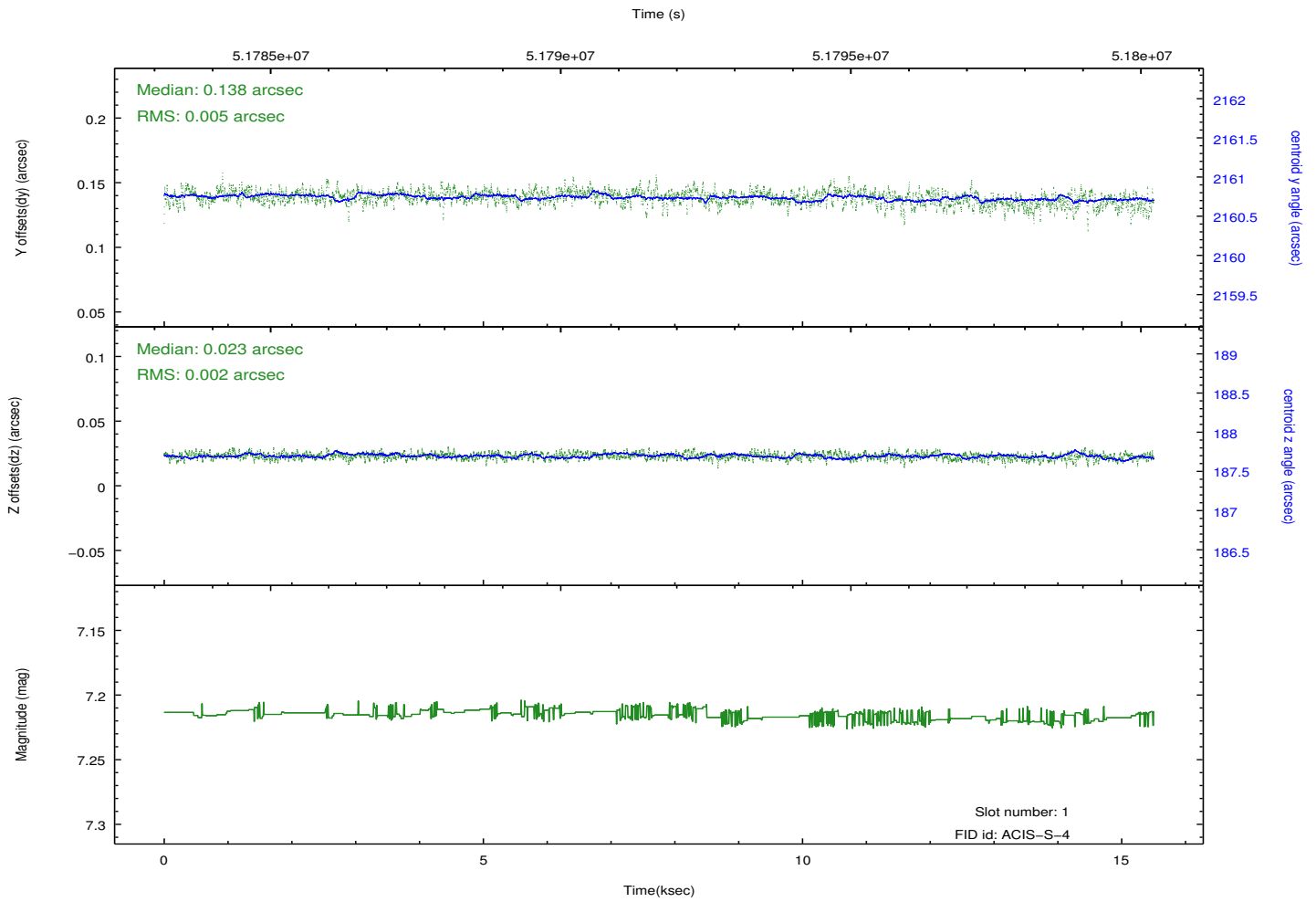
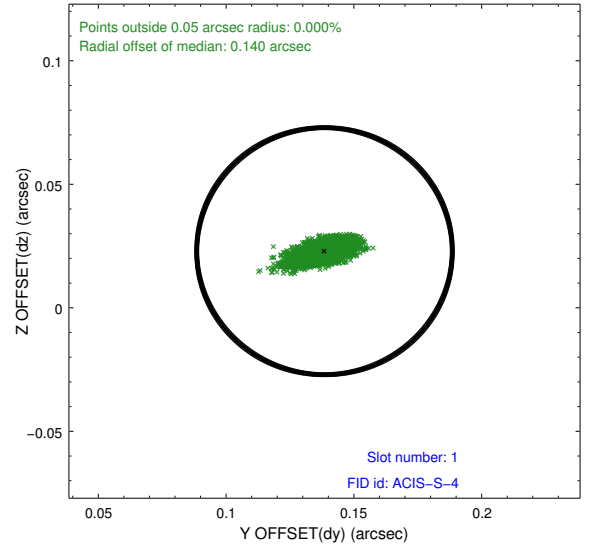
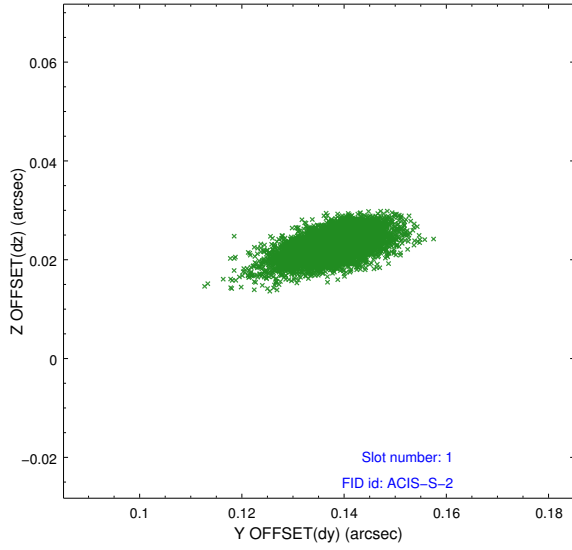


2.5 FID Slots

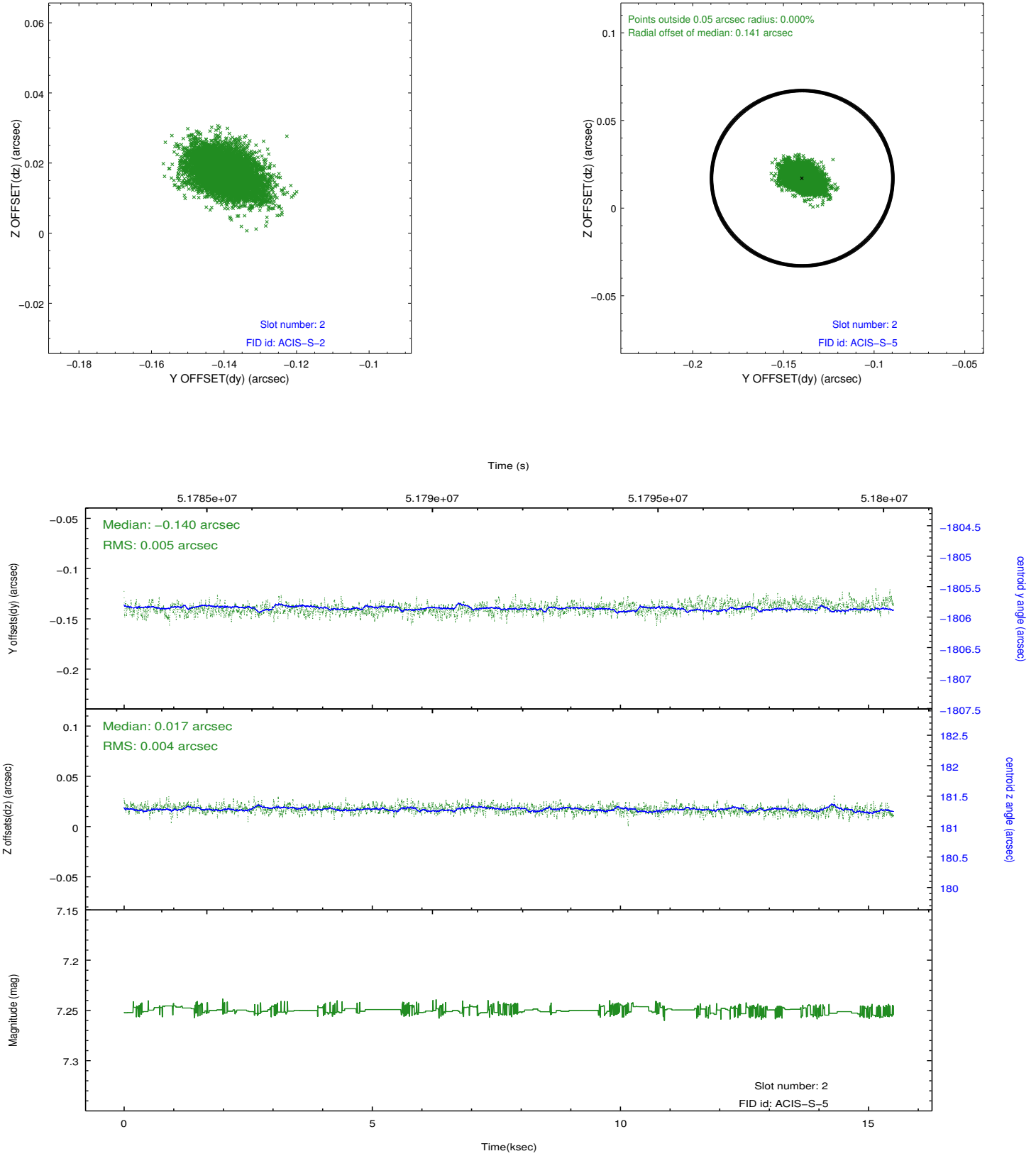
2.5.1 Slot 0



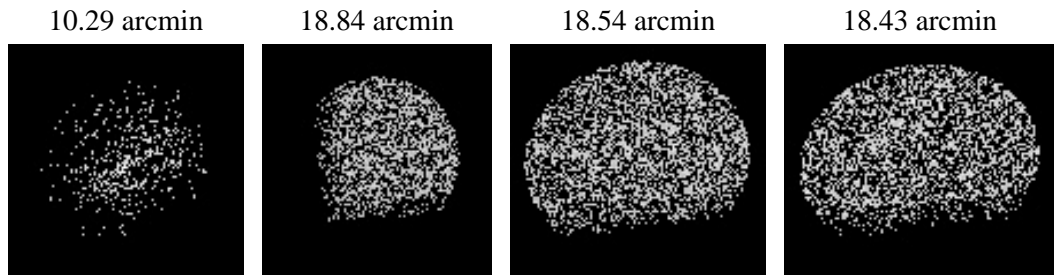
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.515

A.2 Comments

SIM focus position flagged

Charge time for this ObsId remains at original value of 12.515 ks, although with the current processing the charge time would have been 14.745 ksec.

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Slot 7 was not utilized in 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.