

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1266 - L2 Version 2

Chandra X-Ray Center

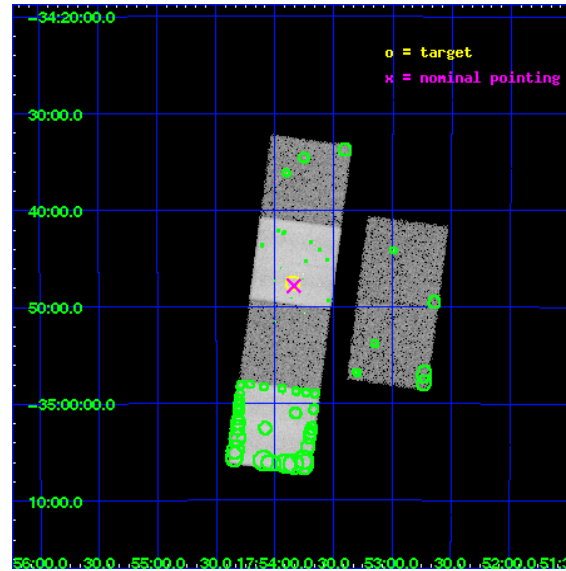
L2 Processing Date : Dec 14 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
3	Point Sources	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

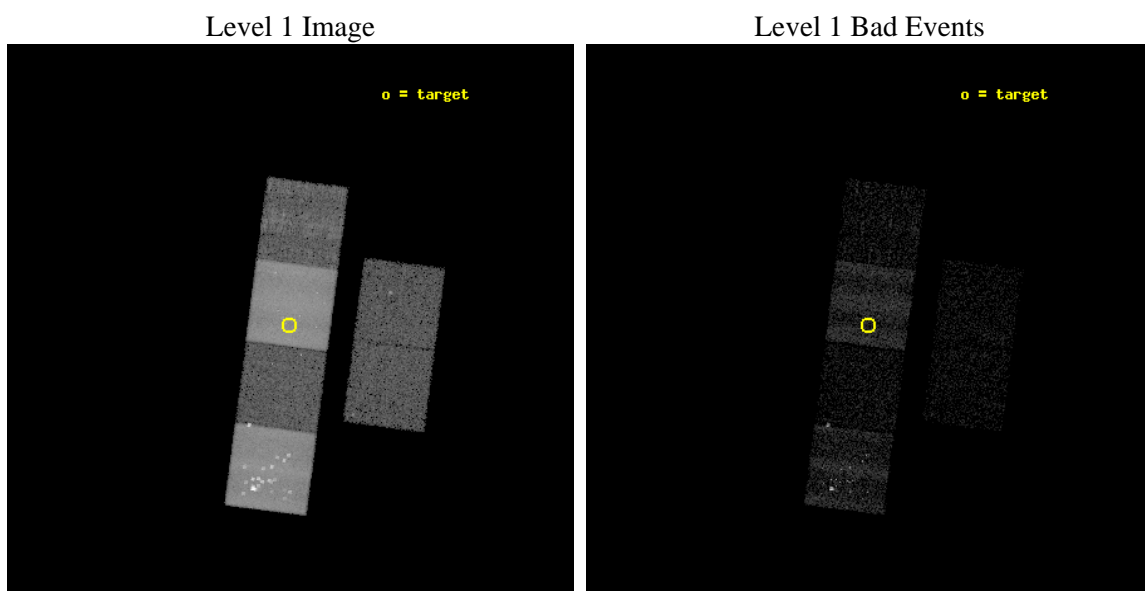
seq_num	280216	Sequence number
obs_id	1266	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	M7 ACA Field Distortion	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.461734	Observer's specified target RA
dec_targ	-34.79229	Observer's specified target Dec
ra_nom	268.45974770173	Nominal RA
dec_nom	-34.797410006976	Nominal Dec
roll_nom	277.43591087388	Nominal Roll
revision	2	Processing version of data
ontime	5438.7021207064	Sum of GTIs [s]
livetime	5369.8339996608	Livetime [s]
ontime2	5438.6200706363	Sum of GTIs [s]
ontime3	5438.579000704	Sum of GTIs [s]
ontime5	5438.6610807031	Sum of GTIs [s]
ontime6	5438.4969207048	Sum of GTIs [s]
ontime7	5438.7021207064	Sum of GTIs [s]
ontime8	5438.5379906371	Sum of GTIs [s]
l2events	236734	Number of level 2 events



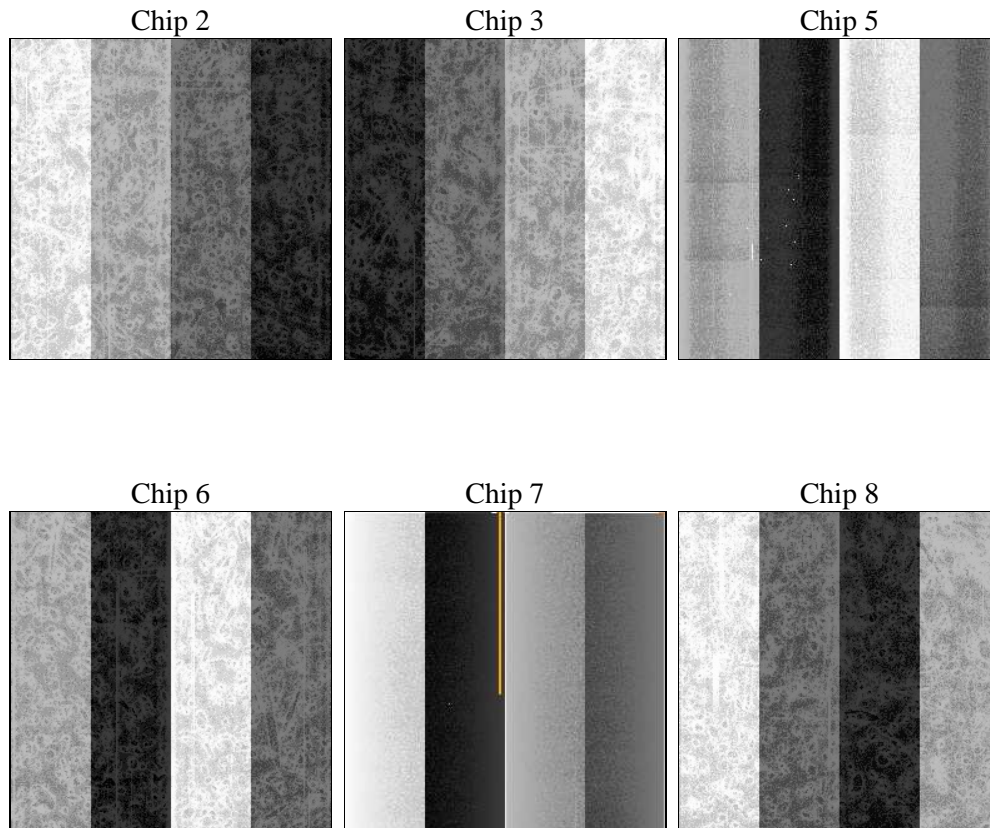
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10800.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	5438.7021207064	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	5438.6200706363	Sum of GTIs [s]
date	2009-12-14T07:52:28	Date and time of file creation	ontime3	5438.579000704	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5438.6610807031	Sum of GTIs [s]
			ontime6	5438.4969207048	Sum of GTIs [s]
			ontime7	5438.7021207064	Sum of GTIs [s]
			ontime8	5438.5379906371	Sum of GTIs [s]
			l1events	320613	Number of level 1 events

2.1.4 Events

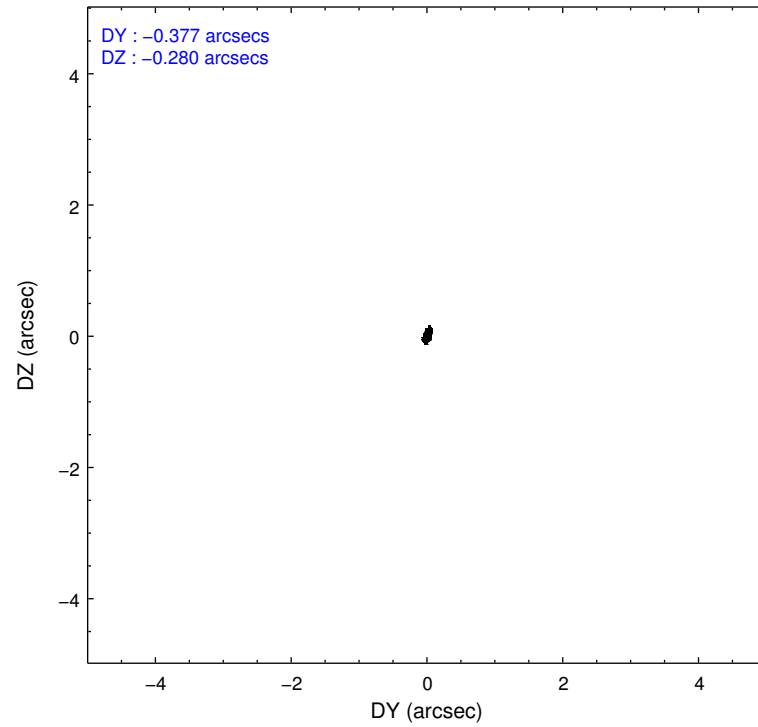
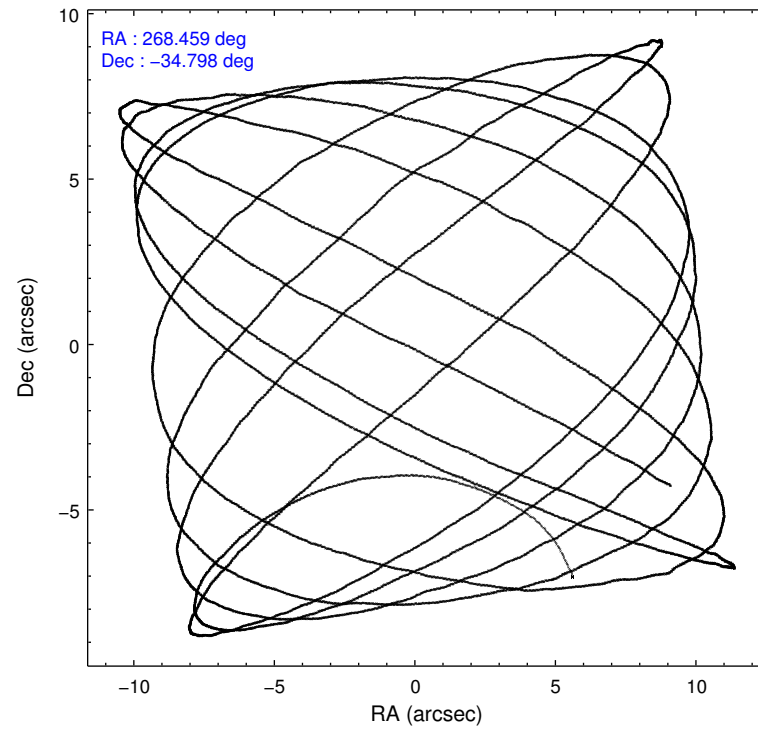
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	16672	16931	128585	20737	112147	25541
rejected events	4821	5156	14592	5889	14191	6385
rejected %	28%	30%	11%	28%	12%	24%

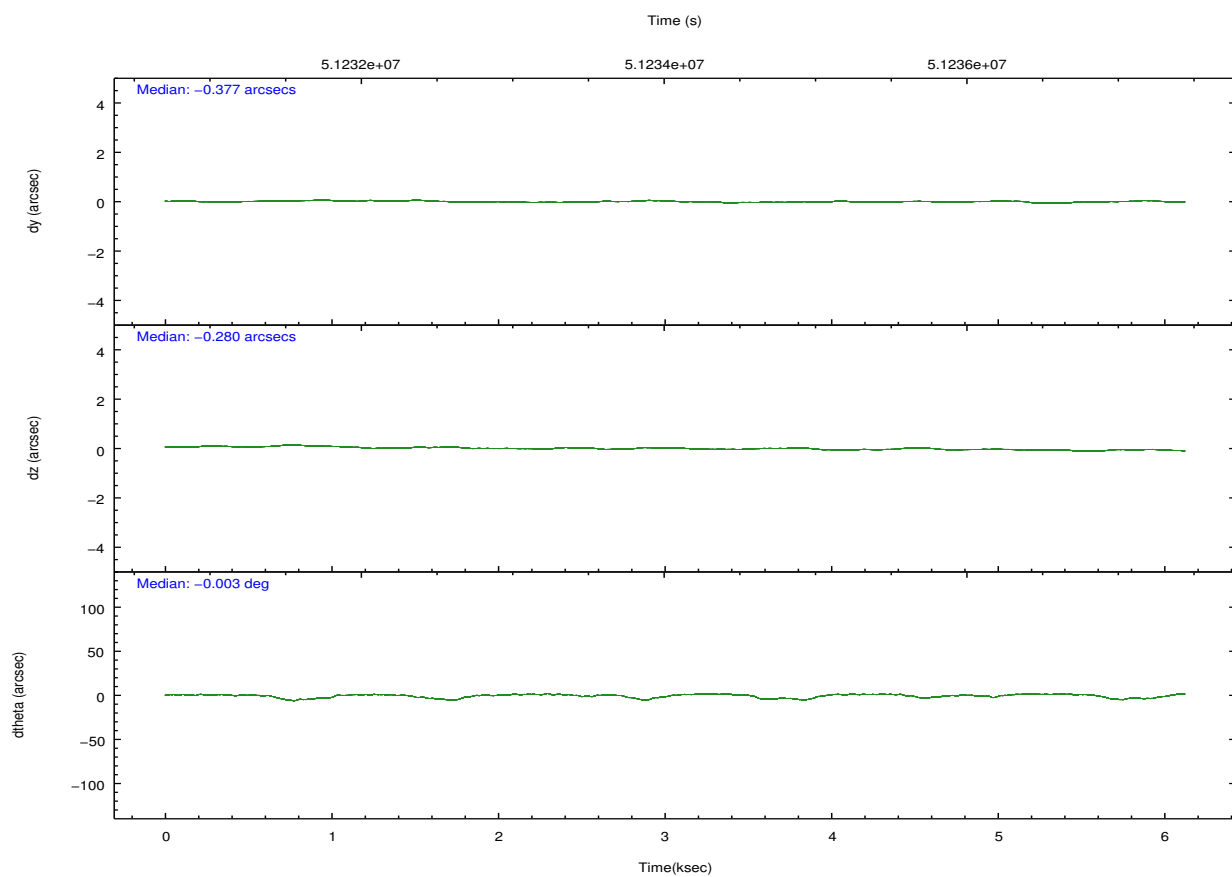
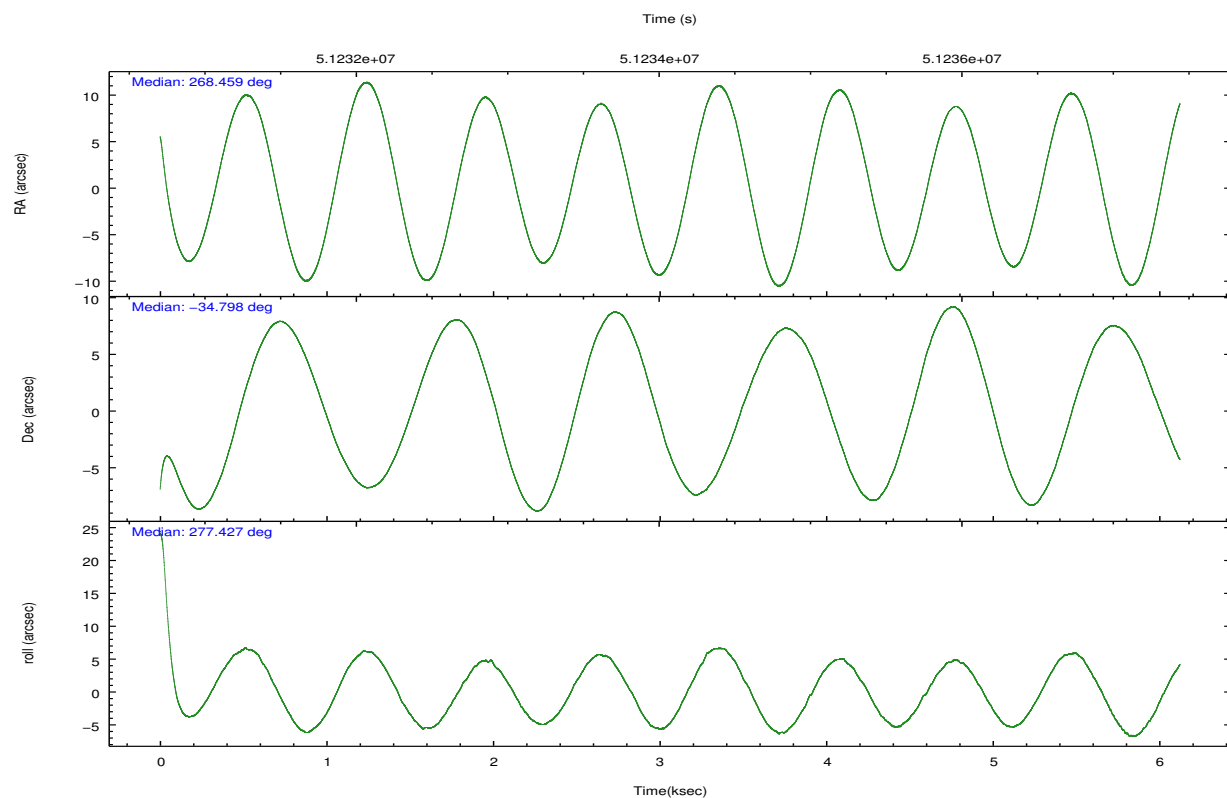
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4956	4815	26494	7008	8461	7672
	29%	28%	20%	33%	7%	30%
grade 1 events	40	45	243	46	54	66
	0%	0%	0%	0%	0%	0%
grade 2 events	2490	2501	17912	2930	13161	4444
	14%	14%	13%	14%	11%	17%
grade 3 events	1016	1019	7794	1148	7714	1671
	6%	6%	6%	5%	6%	6%
grade 4 events	932	972	7048	1043	6734	1511
	5%	5%	5%	5%	6%	5%
grade 5 events	3546	3920	5738	4359	8030	4501
	21%	23%	4%	21%	7%	17%
grade 6 events	3692	3659	62869	4203	67982	5676
	22%	21%	48%	20%	60%	22%
grade 7 events	0	0	487	0	11	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	268.439830	268.4597477017293	Subarray requested	NONE	NONE
Pointing Dec	-34.775093	-34.79741000697562	Alternating exposures requested	N	N
Pointing Roll	277.267878	277.4359108738806	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	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51231470.184000	51230104.881984			
Observation start date	1999-08-16T22:56:46	1999-08-16T22:35:04			
Observation end time	51242270.184000	51237687.319751			
Observation end date	1999-08-17T01:56:46	1999-08-17T00:41:27			
Read mode	TIMED	TIMED			

2.3 Aspect



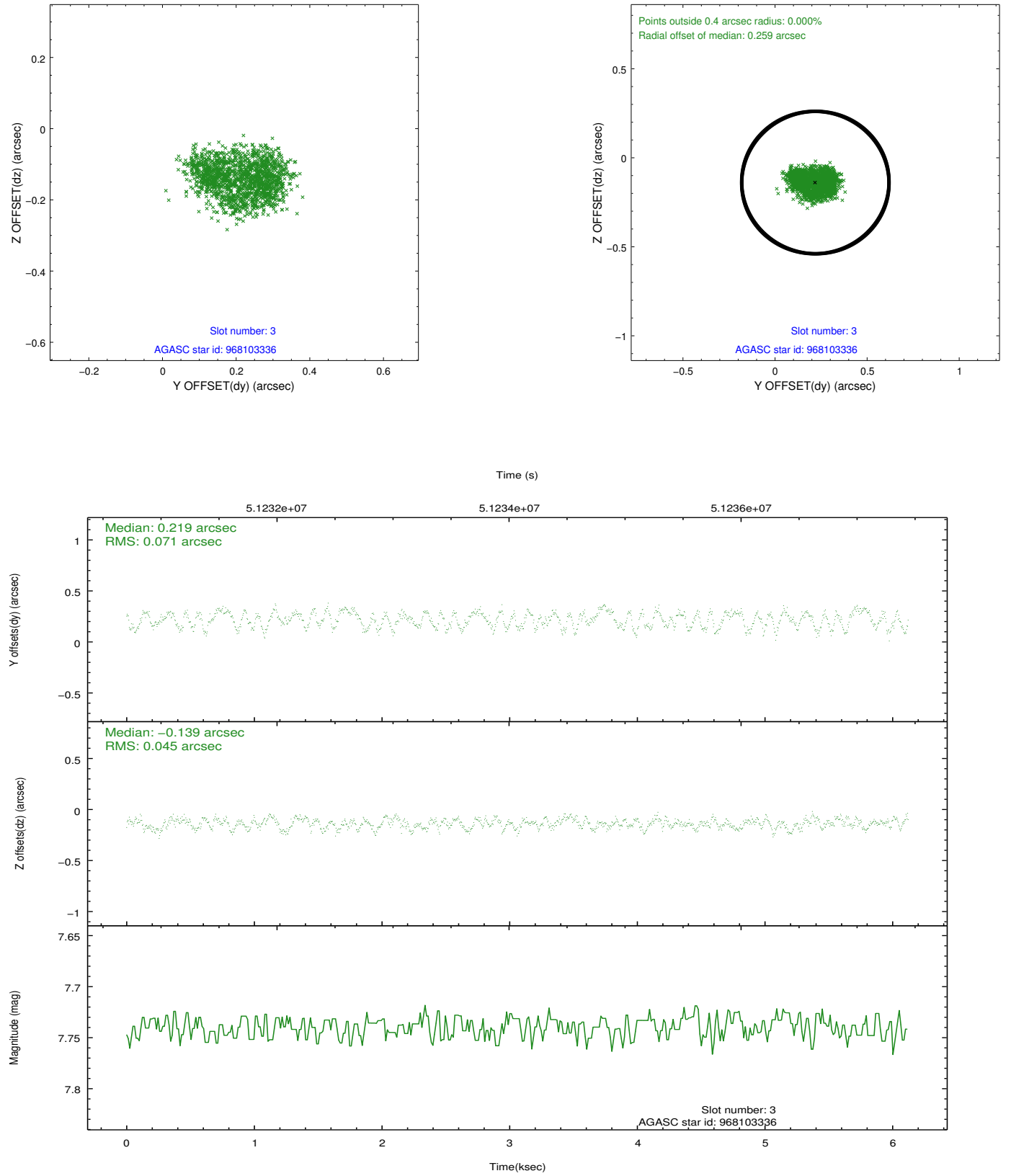


Slot Statistics

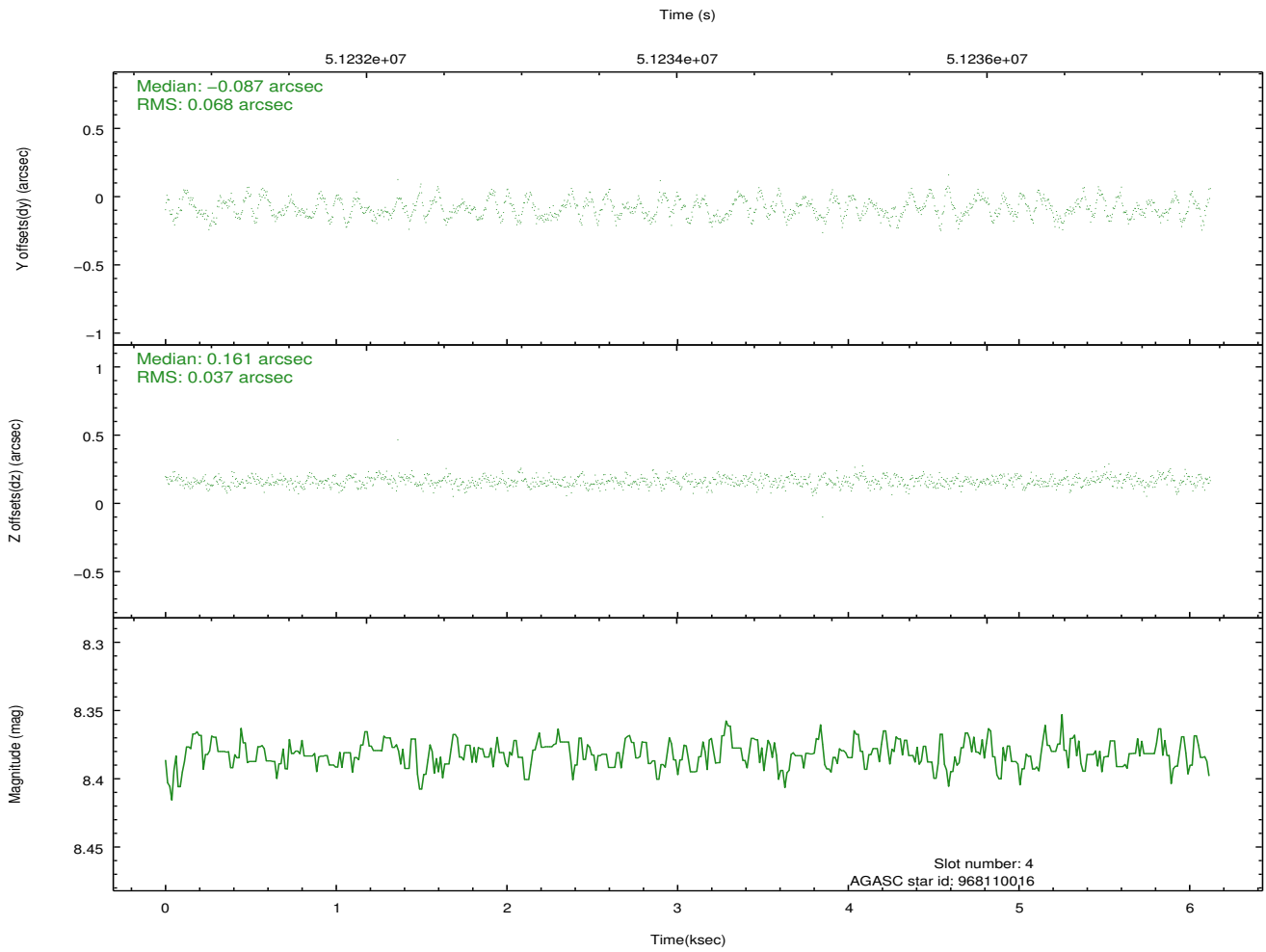
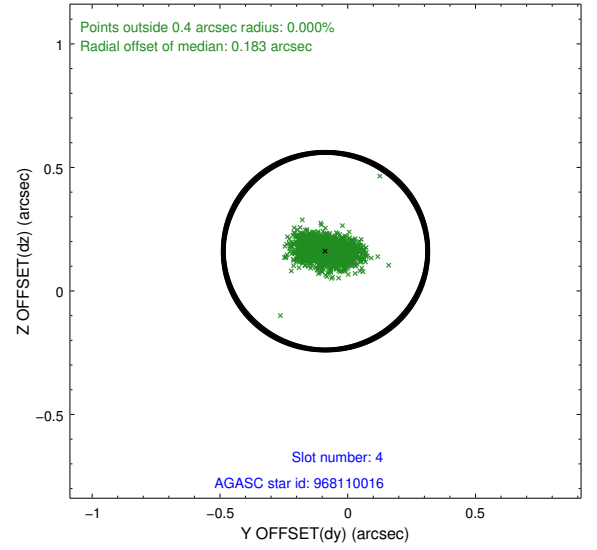
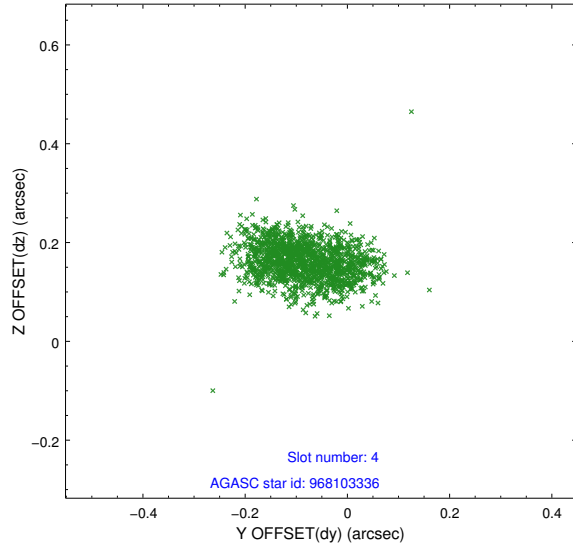
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1494	-0.016	-0.010	0.016	0.058	0.000000	0.000000	-752.20	-1720.80
1	FID	ACIS-S-4	7.21	1494	0.134	0.010	0.021	0.062	0.000000	0.000000	2160.78	186.62
2	FID	ACIS-S-5	7.24	1494	-0.149	0.009	0.030	0.067	0.000000	0.000000	-1803.89	181.44
3	GUIDE	968103336	7.74	1494	0.219	-0.139	0.092	0.135	267.964976	-35.365352	1934.56	-1650.96
4	GUIDE	968110016	8.38	1494	-0.087	0.161	0.083	0.132	268.984118	-34.286625	-1535.08	1827.72
5	GUIDE	968111920	9.06	1492	-0.004	0.079	0.090	0.143	269.096741	-34.497809	-739.45	2061.04
6	GUIDE	968104032	9.83	1491	-0.127	-0.098	0.114	0.185	267.925162	-34.188077	-2287.49	-1251.60
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

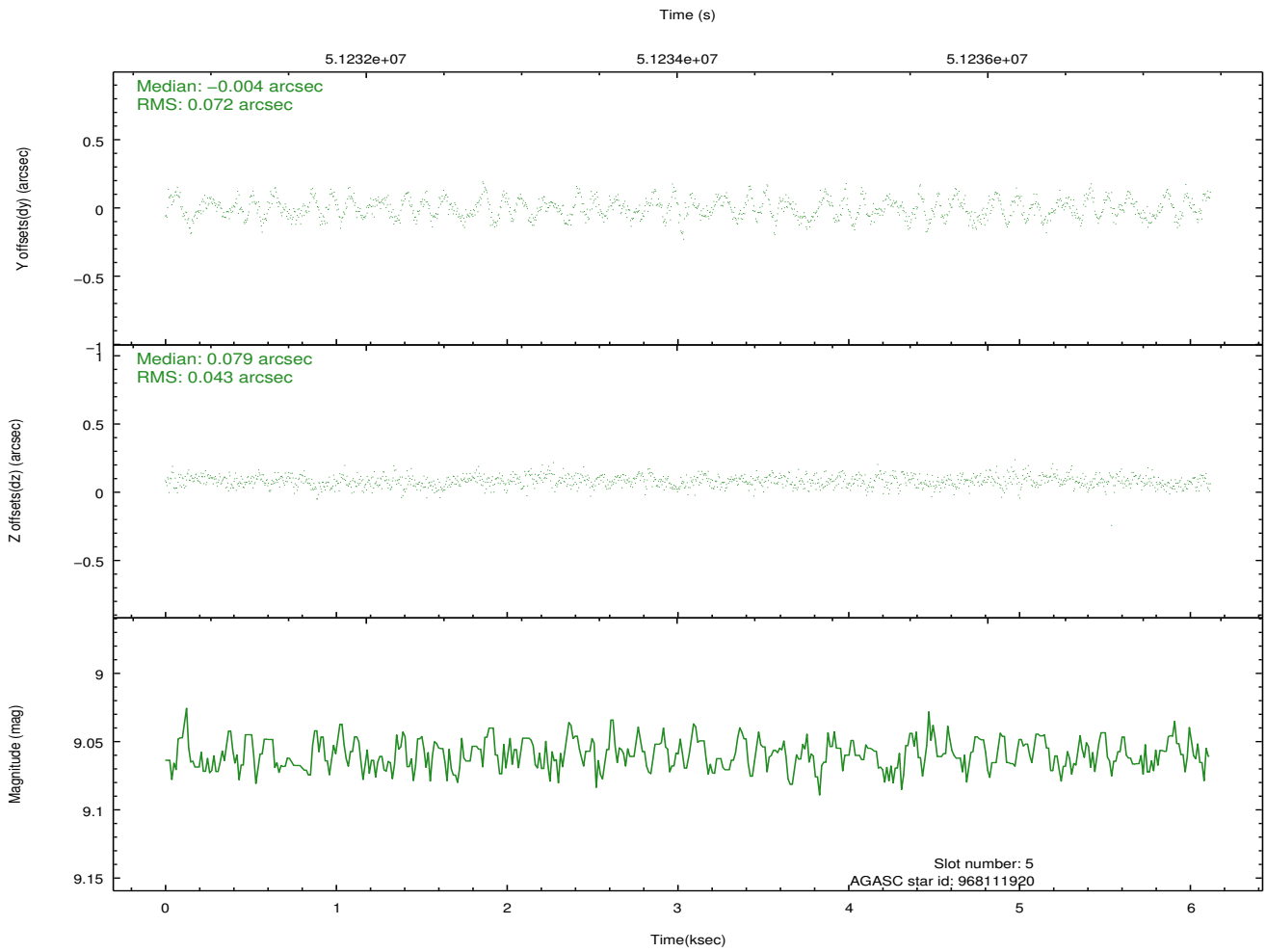
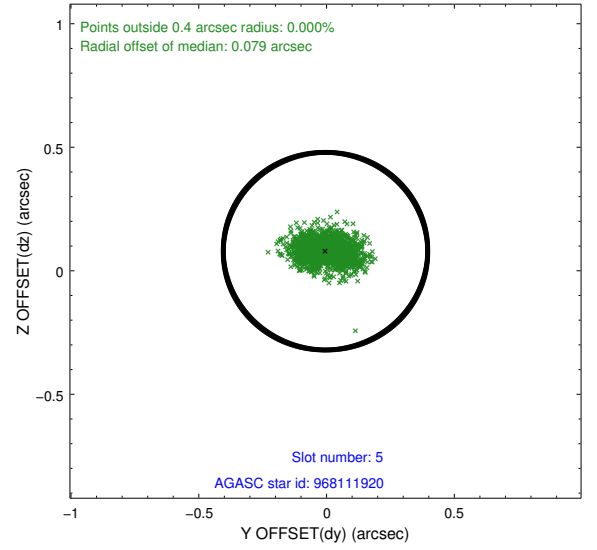
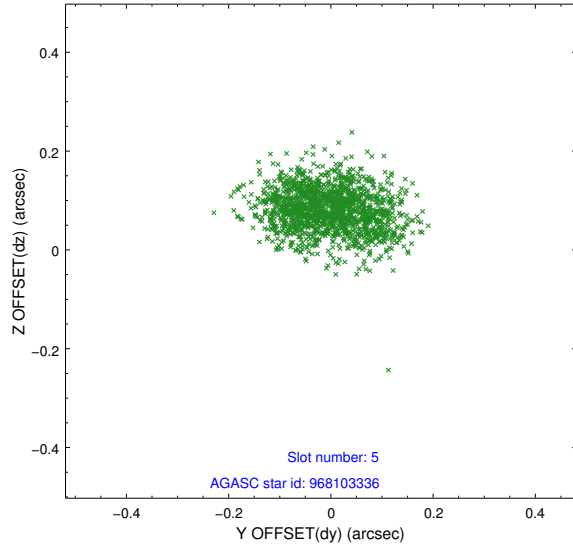
2.4.1 Slot 3



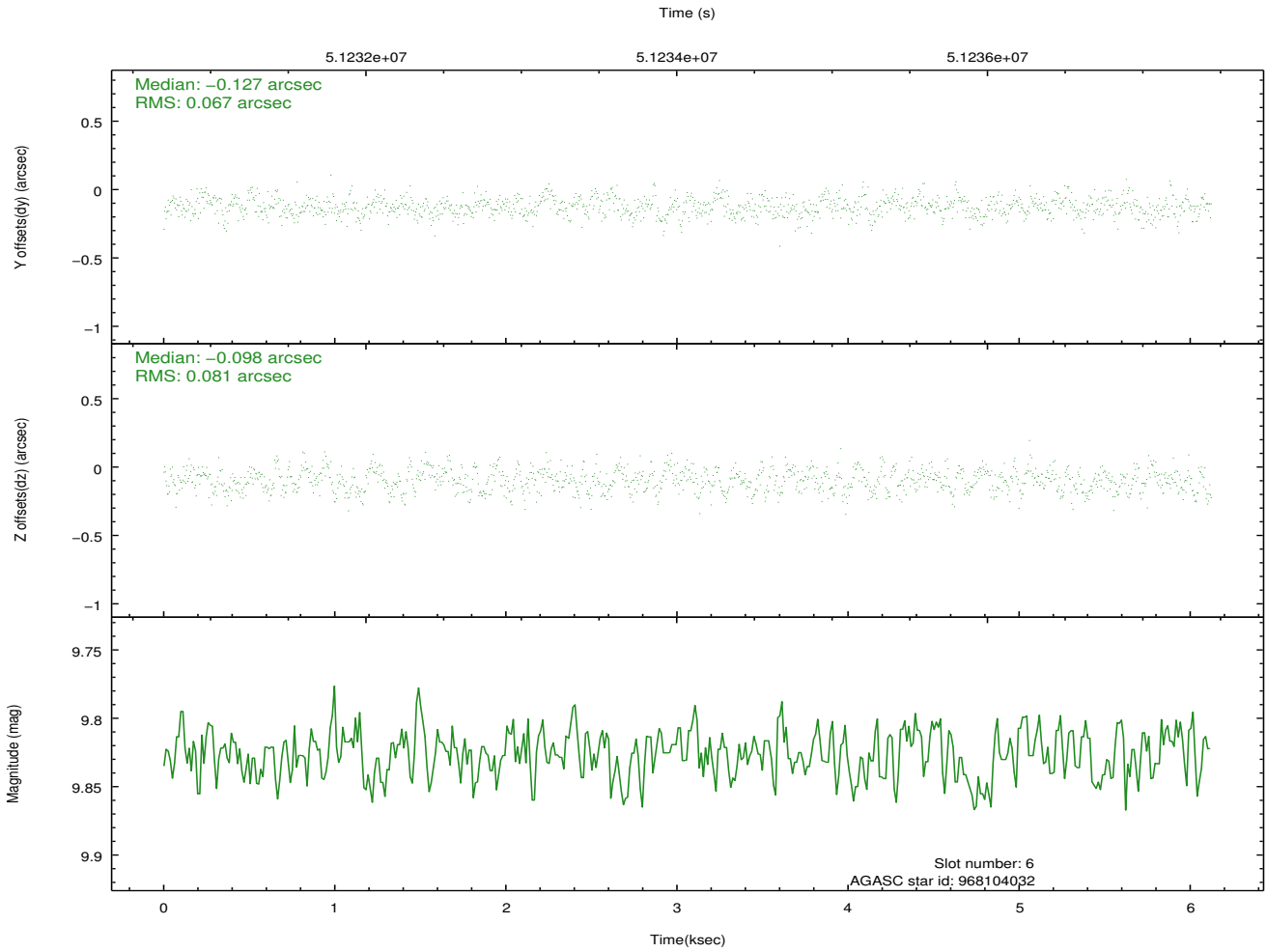
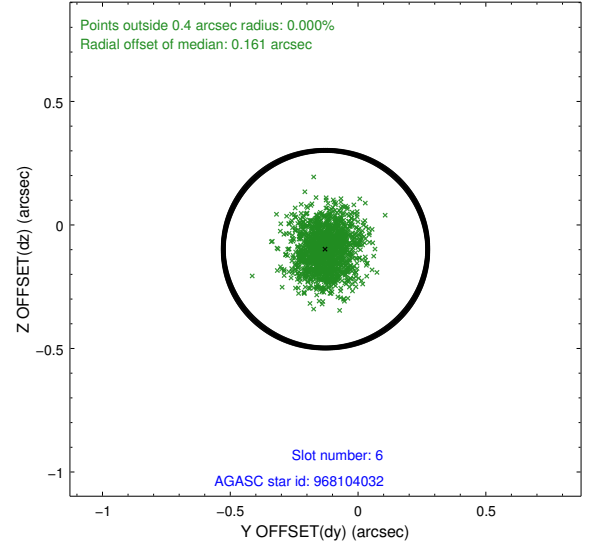
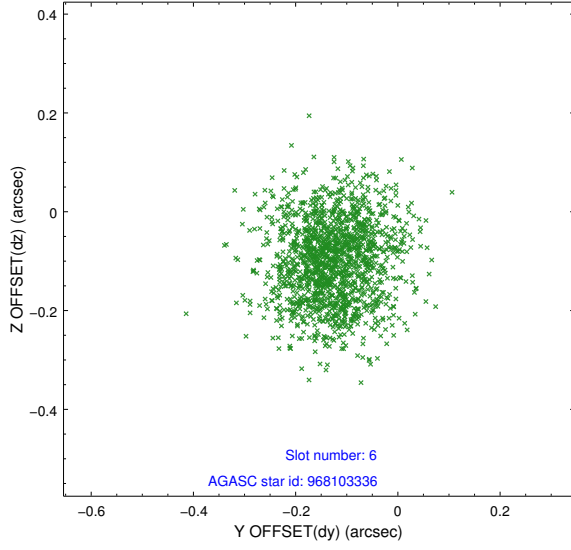
2.4.2 Slot 4



2.4.3 Slot 5

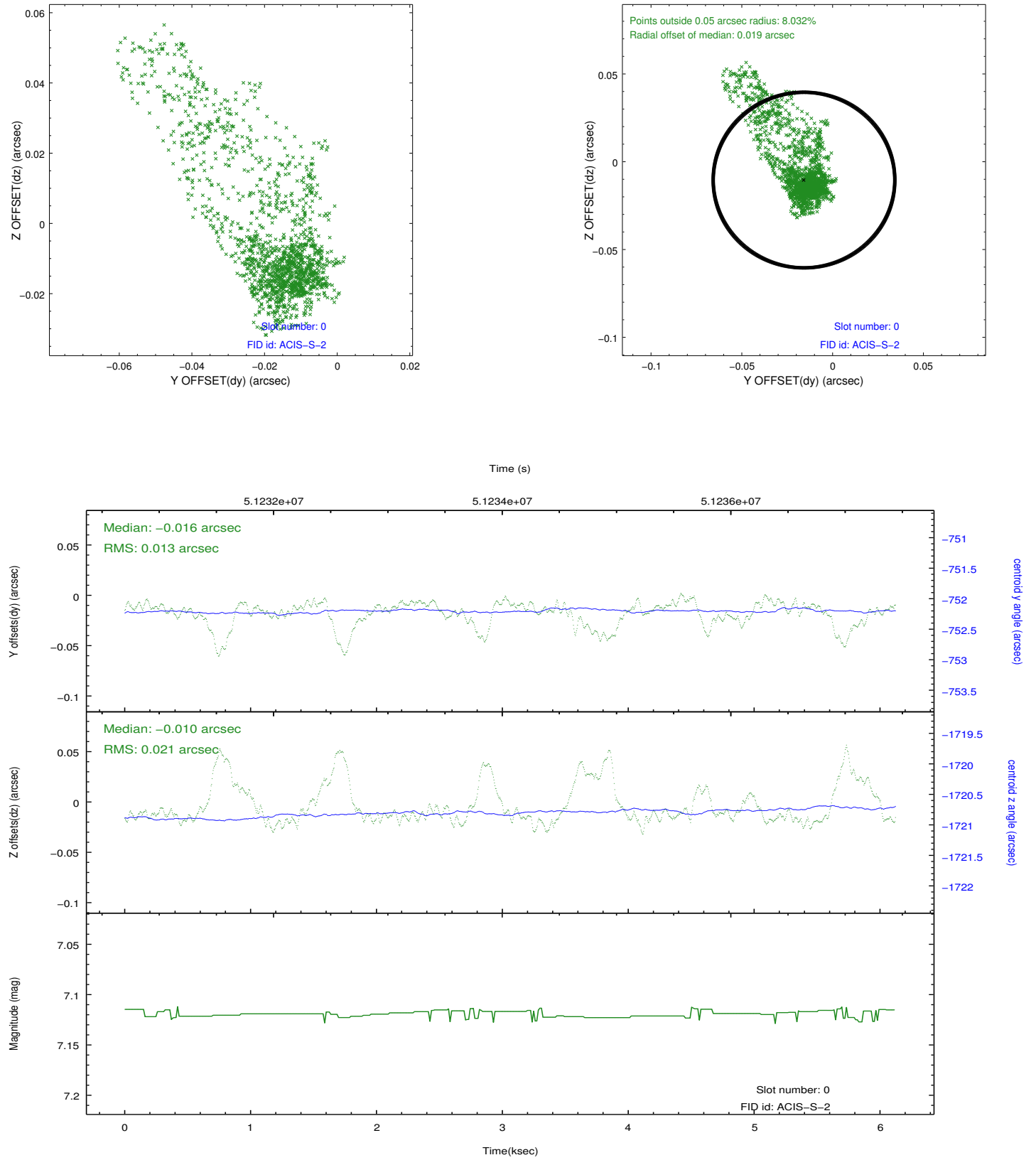


2.4.4 Slot 6

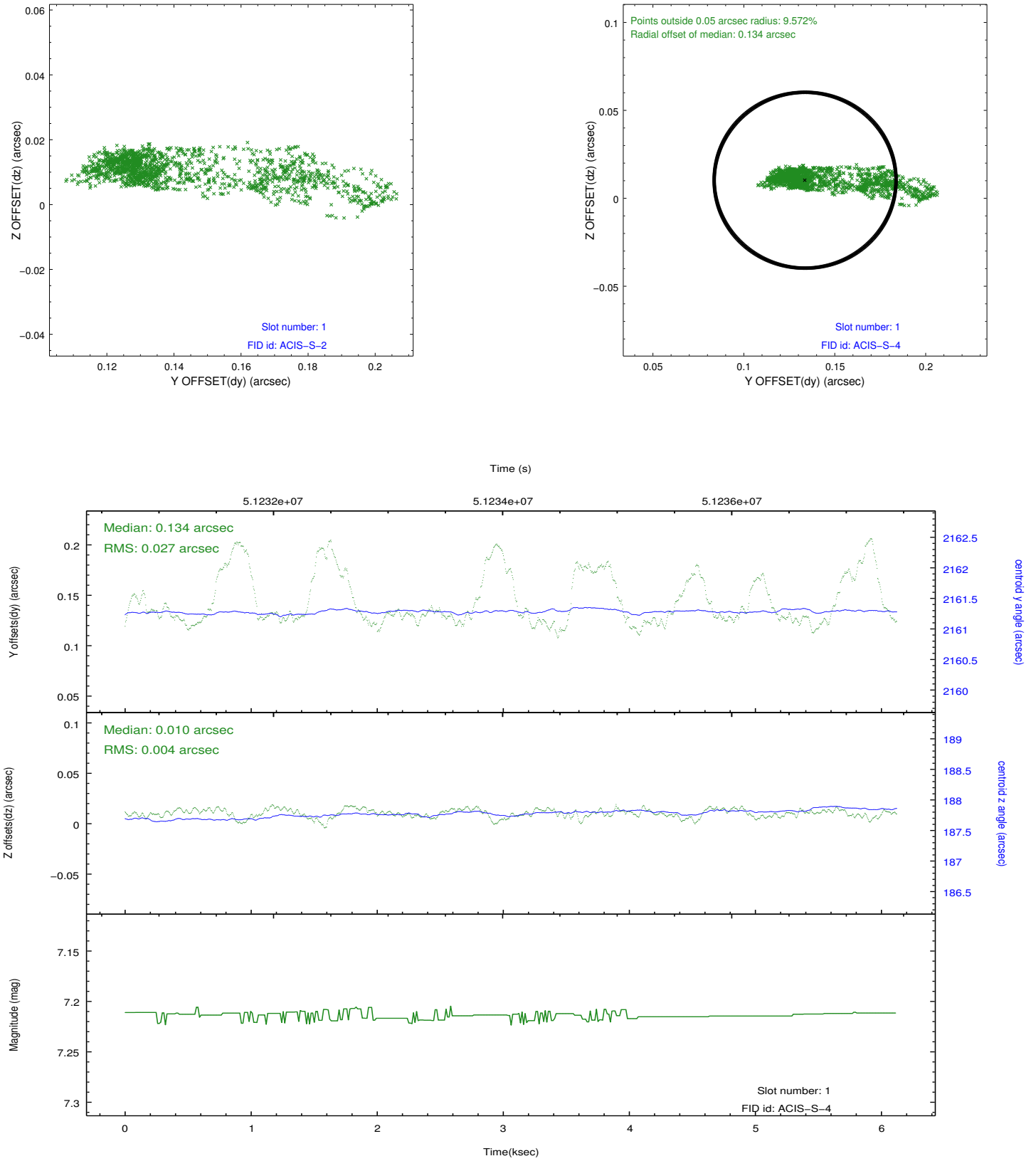


2.5 FID Slots

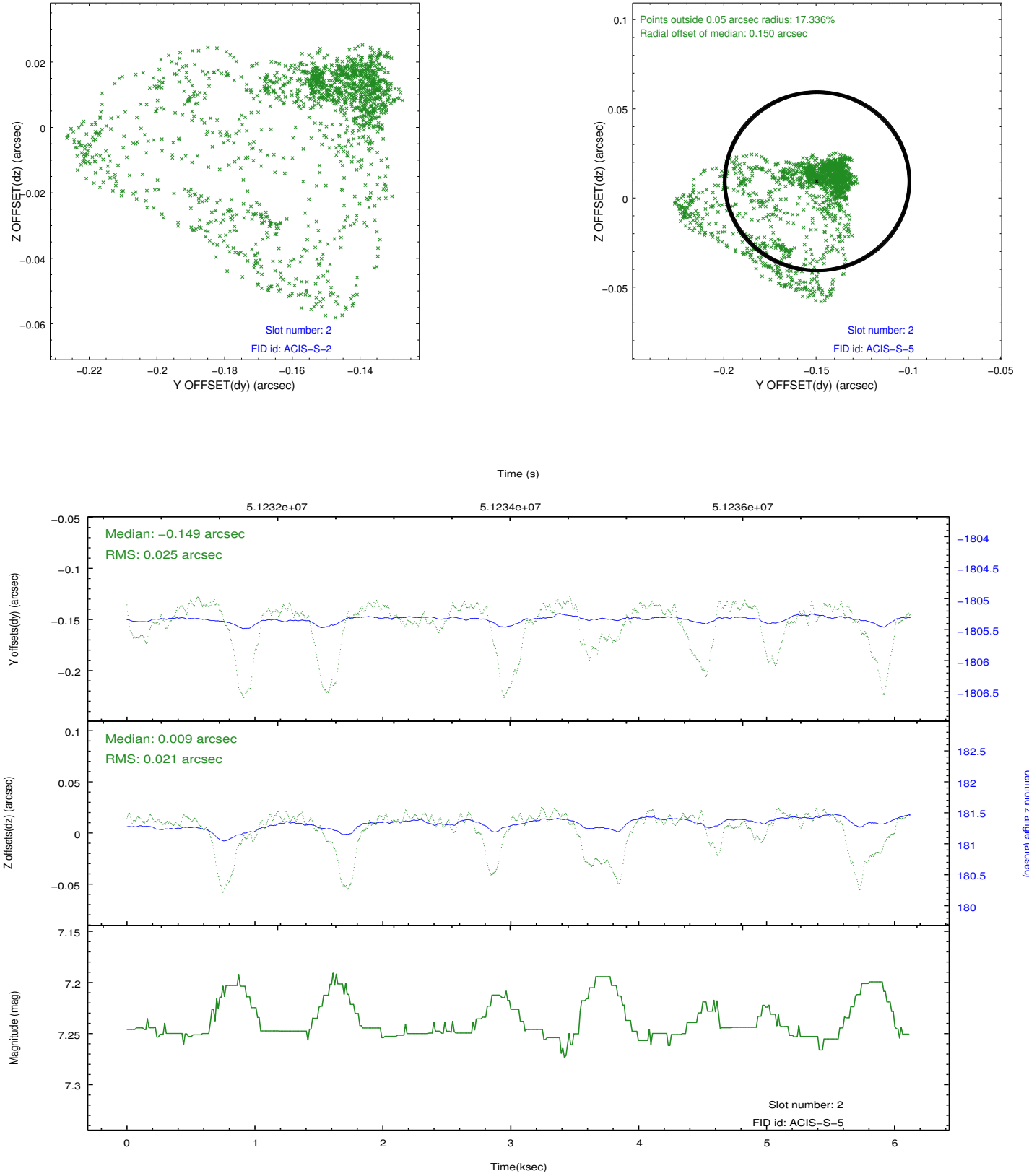
2.5.1 Slot 0



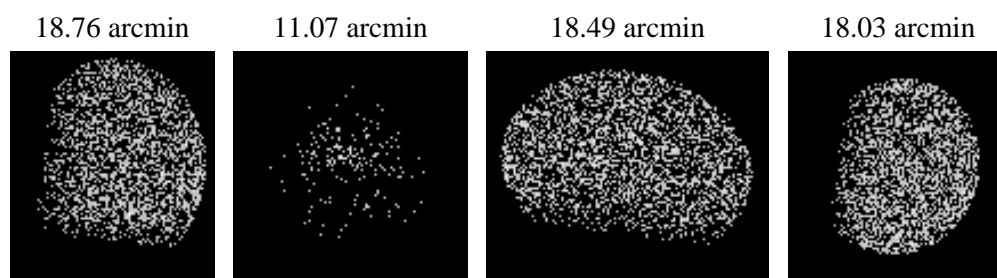
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.44

A.2 Comments

A high radiation environment existed throughout this observation. The result is a periodic enhanced count rate.

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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.