

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13507 - L2 Version 1
Chandra X-Ray Center

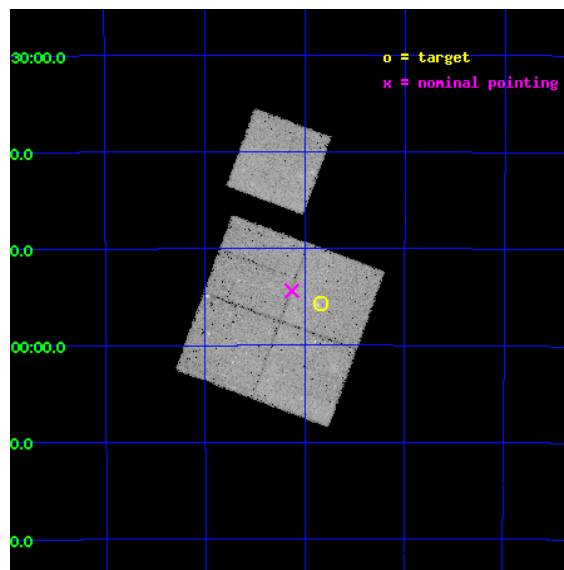
L2 Processing Date : Aug 20 2012

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1 Front

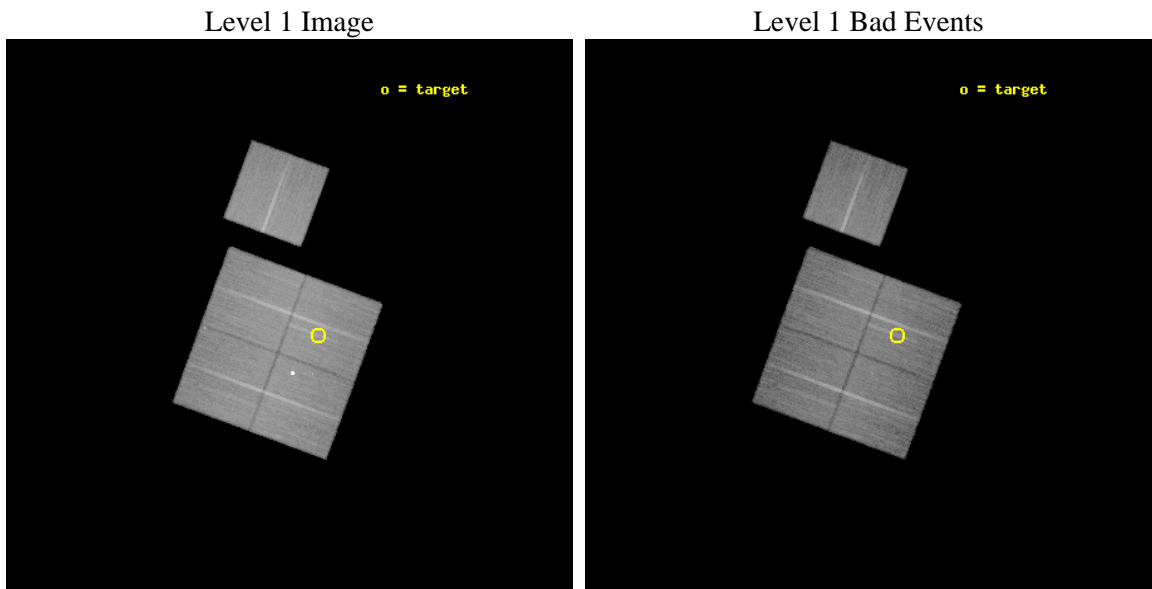
seq_num	801148	Sequence number
obs_id	13507	Observation id
title	Cosmology and Cluster Evolution from the 80 Most Massive Clusters in 2000 deg ² from the South Pole Telescope Survey	Proposal title
observer	Dr Bradford Benson	Principal investigator
object	SPT-CLJ2236-4555	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.21	Observer's specified target RA [deg]
dec_targ	-45.9271	Observer's specified target Dec [deg]
ra_nom	339.28224552939	Nominal RA [deg]
dec_nom	-45.906184435912	Nominal Dec [deg]
roll_nom	20.260577171339	Nominal Roll [deg]
revision	1	Processing version of data
ontime	48282.459320962	Sum of GTIs [s]
livetime	47651.613444905	Livetime [s]
ontime0	48285.600371361	Sum of GTIs [s]
ontime1	48285.600371361	Sum of GTIs [s]
ontime2	48282.459341049	Sum of GTIs [s]
ontime3	48282.459320962	Sum of GTIs [s]
ontime6	48285.600371361	Sum of GTIs [s]
l2events	122096	Number of level 2 events



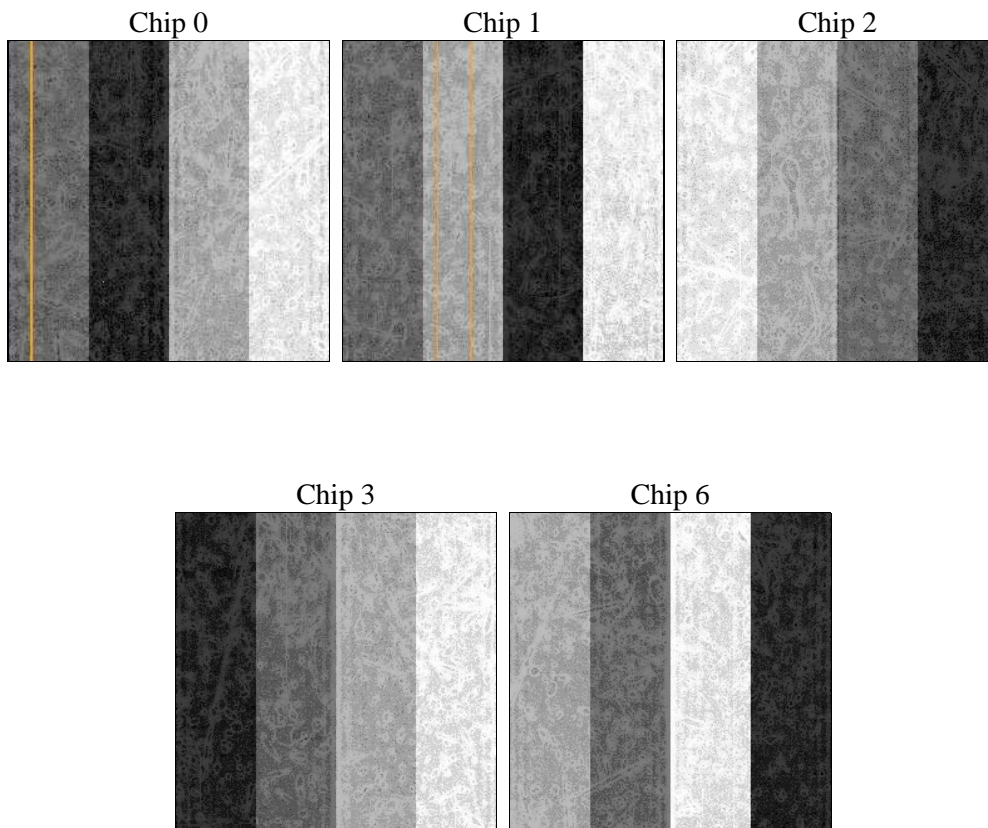
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	48282.459320962	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime0	48285.600371361	Sum of GTIs [s]
date	2012-08-20T20:58:02	Date and time of file creation	ontime1	48285.600371361	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	48282.459341049	Sum of GTIs [s]
			ontime3	48282.459320962	Sum of GTIs [s]
			ontime6	48285.600371361	Sum of GTIs [s]
			l1events	1179190	Number of level 1 events

2.1.4 Events

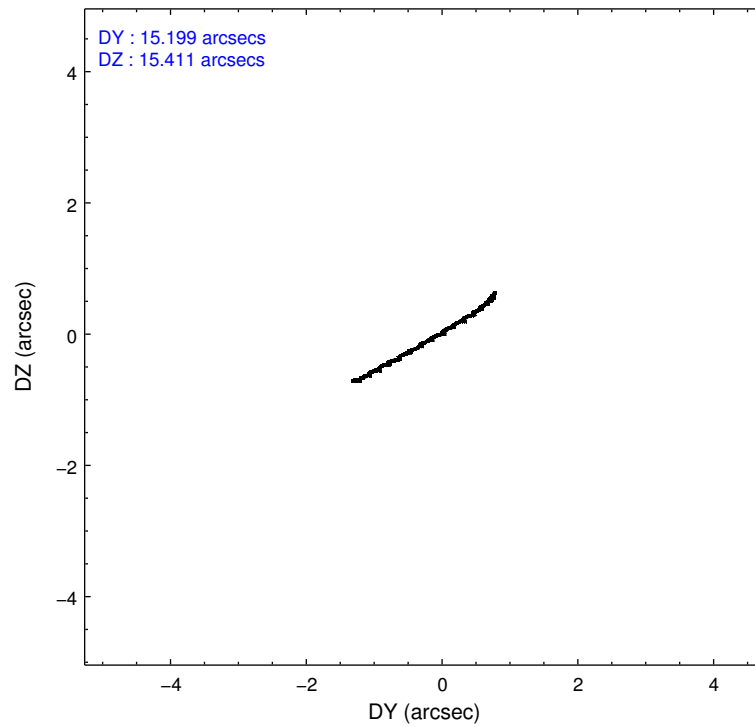
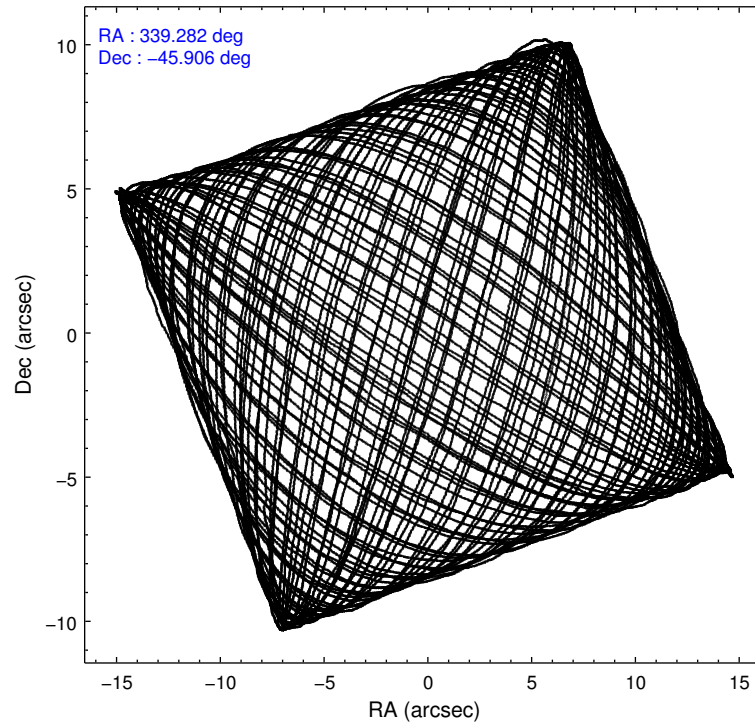
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	213936	243373	244198	236446	241237
rejected events	185200	197267	216478	208999	212086
rejected %	86%	81%	88%	88%	87%

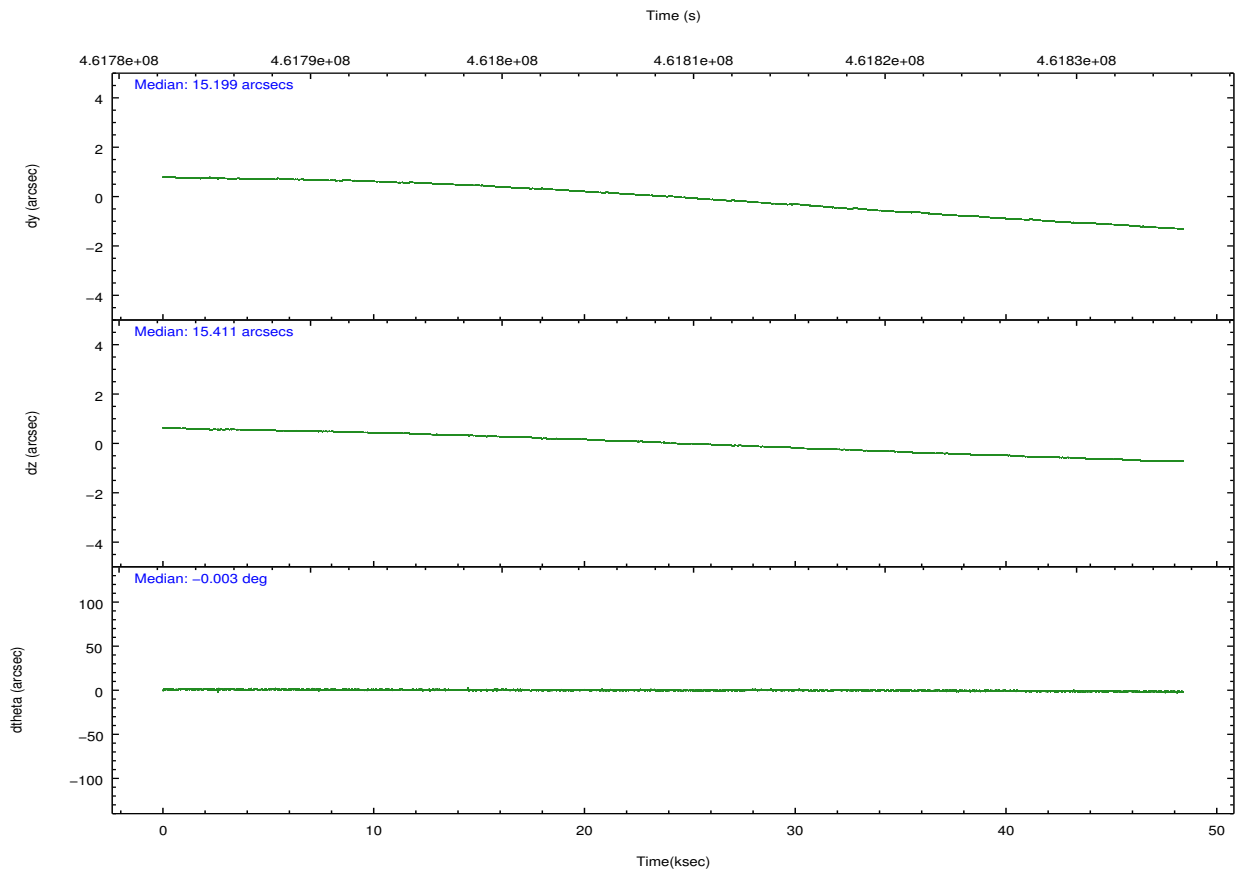
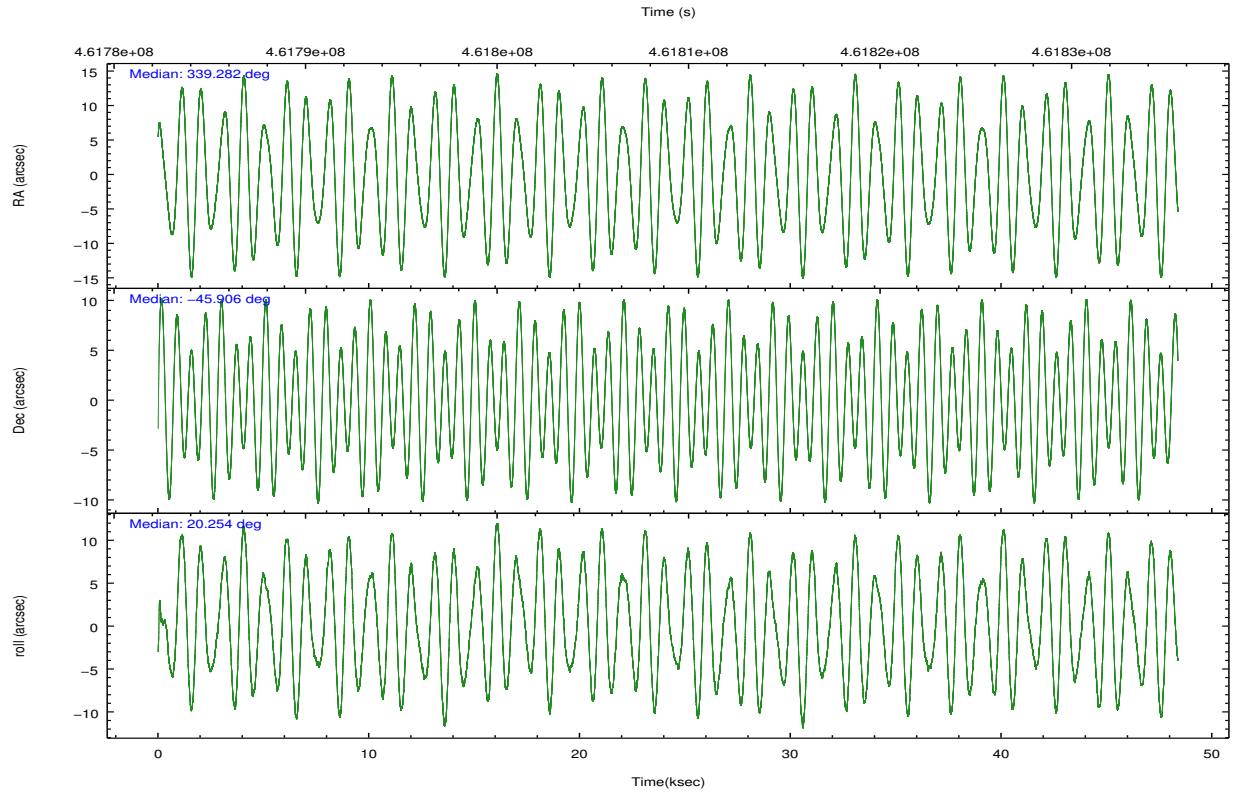
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10027	25937	9880	9659	10065
	4%	10%	4%	4%	4%
grade 1 events	145	217	146	151	130
	0%	0%	0%	0%	0%
grade 2 events	7065	6905	6734	6083	6545
	3%	2%	2%	2%	2%
grade 3 events	2996	3164	2782	2952	3128
	1%	1%	1%	1%	1%
grade 4 events	2842	3245	2859	2988	2929
	1%	1%	1%	1%	1%
grade 5 events	10975	11838	10417	12666	12352
	5%	4%	4%	5%	5%
grade 6 events	5807	6856	5466	5766	6484
	2%	2%	2%	2%	2%
grade 7 events	174079	185211	205914	196181	199604
	81%	76%	84%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	339.257086	339.2822455293868	CCD I2 on	Y	Y
[deg] Pointing Dec	-45.927414	-45.90618443591245	CCD I3 on	Y	Y
[deg] Pointing Roll	20.033812	20.26057717133851	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	461784930.184000	461783908.28075	CCD S5 on	N	N
Observation start date	2012-08-19T17:34:23	2012-08-19T17:18:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	461833130.184000	461833768.89592	On-chip summing requested	N	N
Observation end date	2012-08-20T06:57:43	2012-08-20T07:09:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





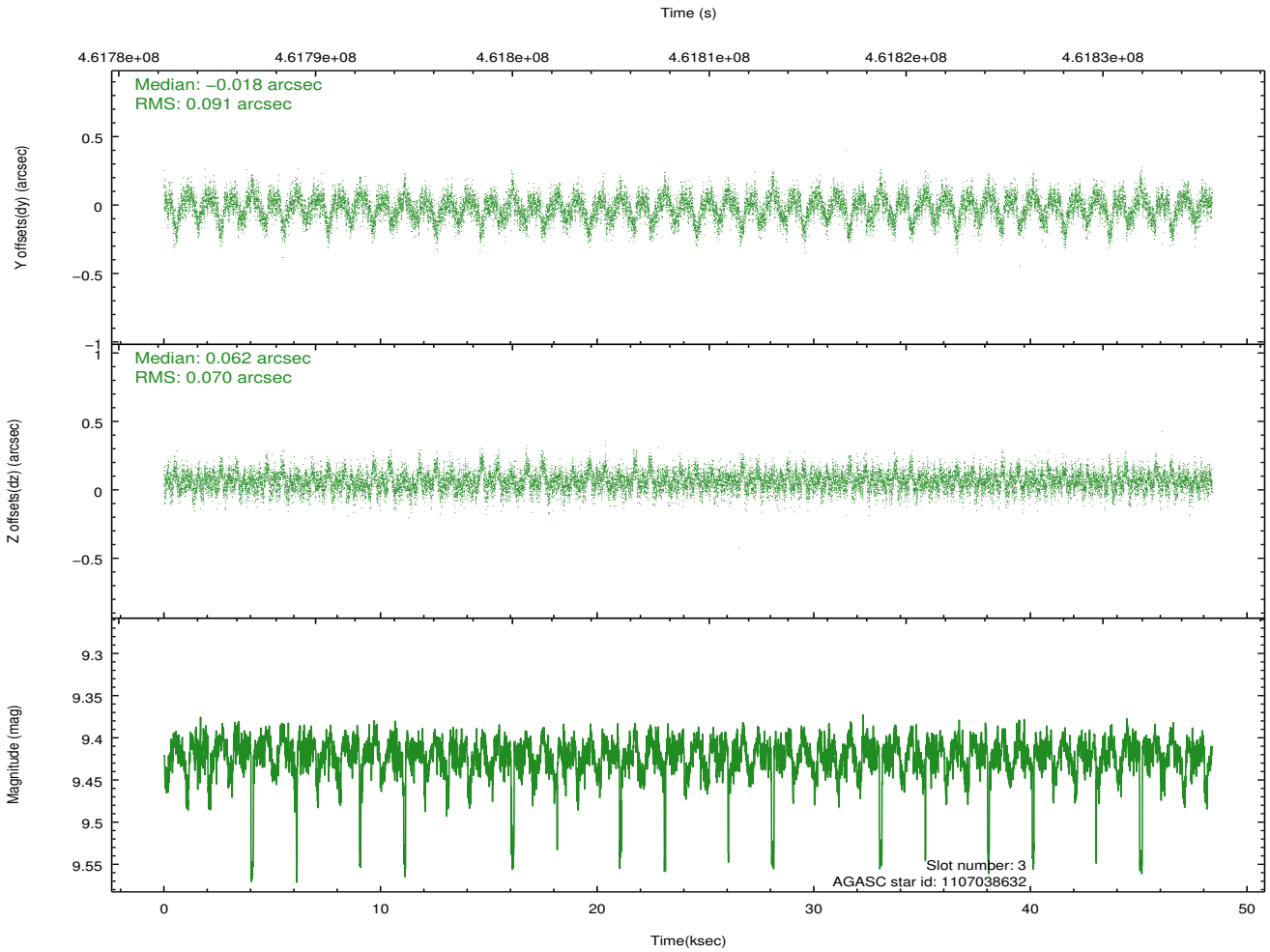
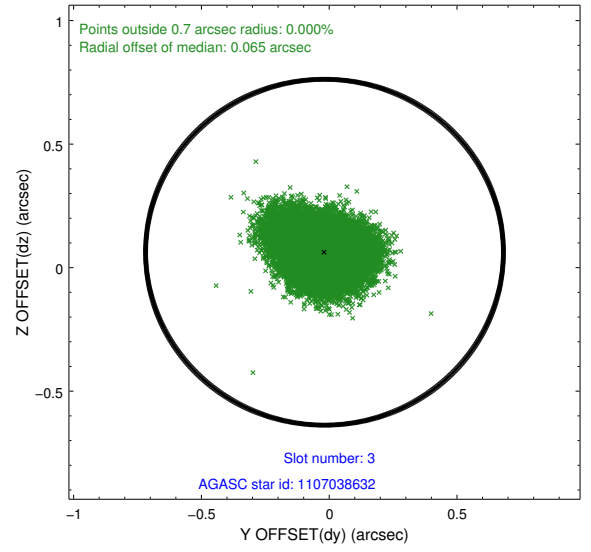
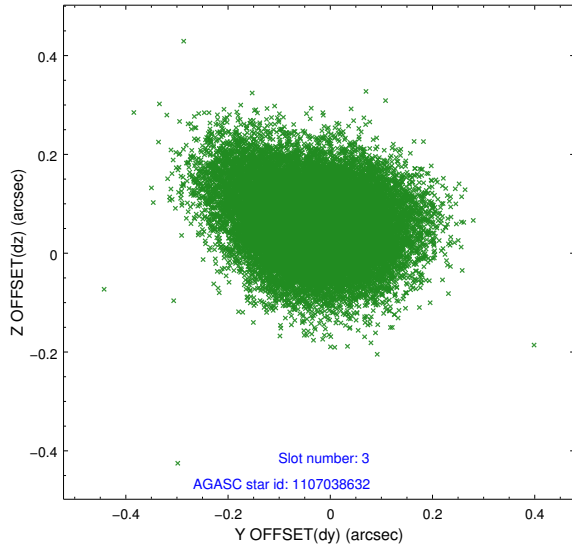
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.12	11801	0.148	-0.122	0.028	0.044	0.000000	0.000000	924.37	-998.20
1	FID	ACIS-I-5	7.11	11801	-0.332	0.104	0.019	0.026	0.000000	0.000000	-1824.26	899.46
2	FID	ACIS-I-6	7.12	11800	0.097	0.086	0.023	0.034	0.000000	0.000000	389.83	1543.98
3	GUIDE	1107038632	9.42	23544	-0.018	0.062	0.120	0.202	339.933443	-46.000331	1496.89	-832.49
4	GUIDE	1107040400	8.83	23585	0.005	-0.083	0.129	0.195	340.244581	-46.201992	1969.27	-1786.42
5	GUIDE	1107043216	9.07	23583	0.136	0.191	0.130	0.205	339.154589	-46.459613	-894.54	-1713.28
6	GUIDE	1107044288	9.51	23508	-0.112	-0.222	0.133	0.211	339.195865	-45.354685	560.57	1989.61
7	GUIDE	1107045064	8.02	23598	0.007	0.058	0.071	0.115	338.698960	-45.784562	-1141.40	958.80

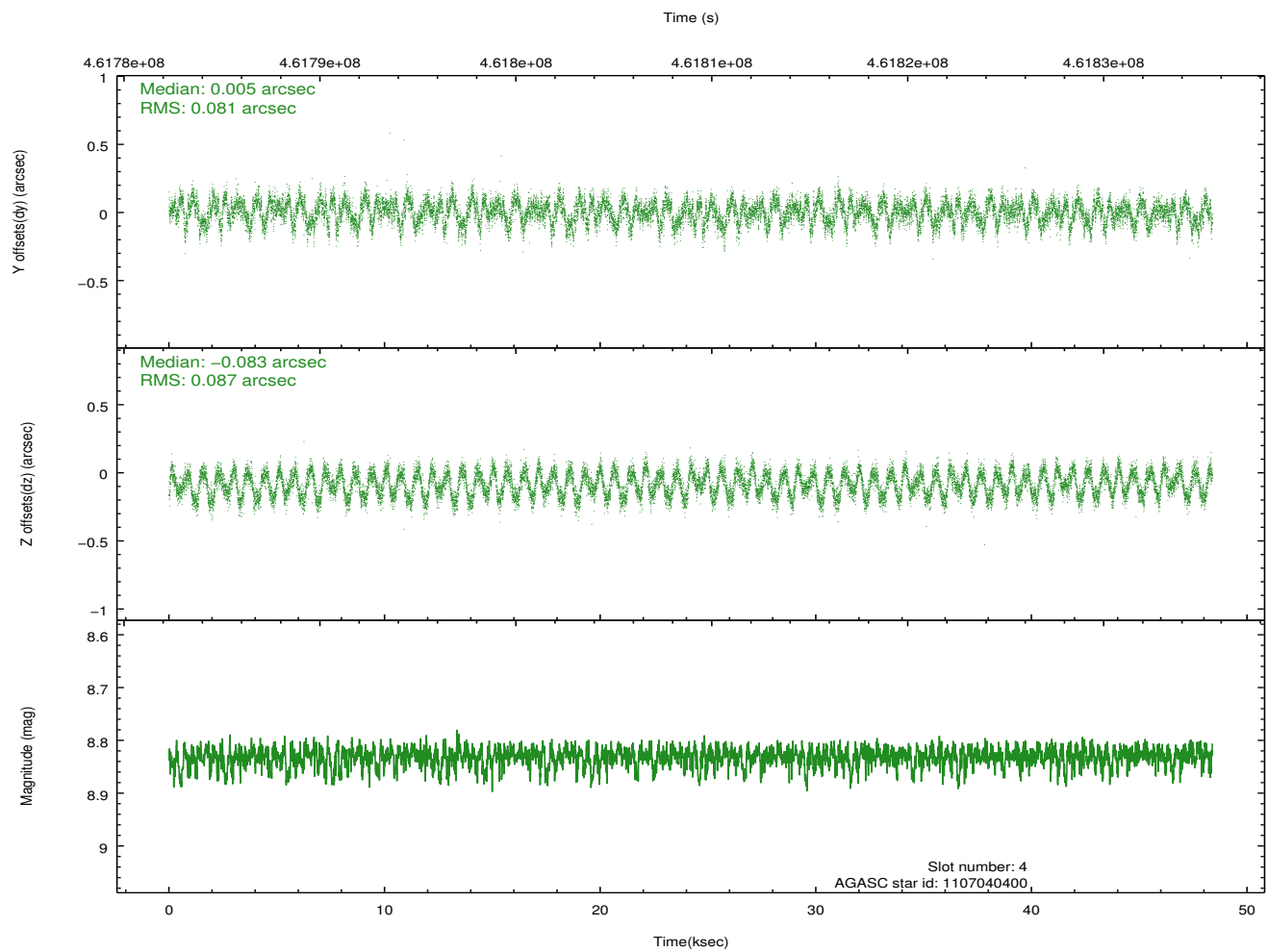
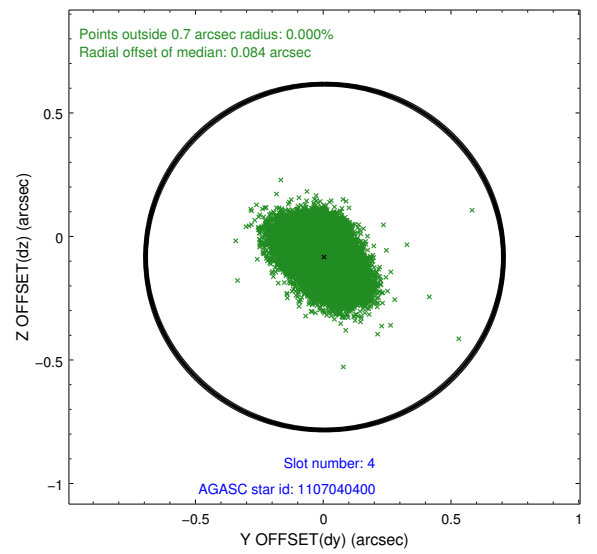
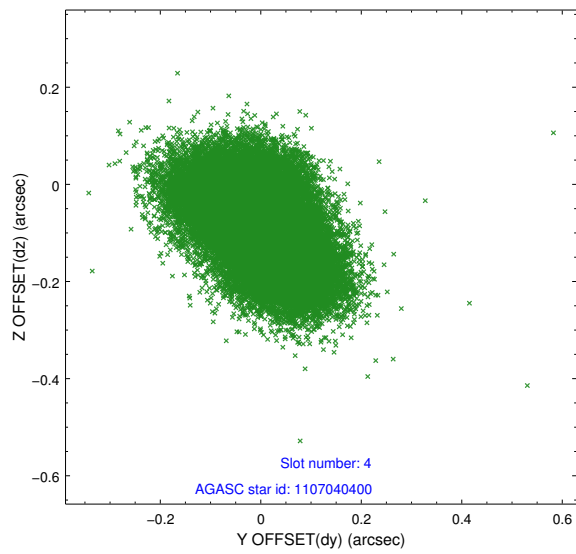
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2.4 Star Slots

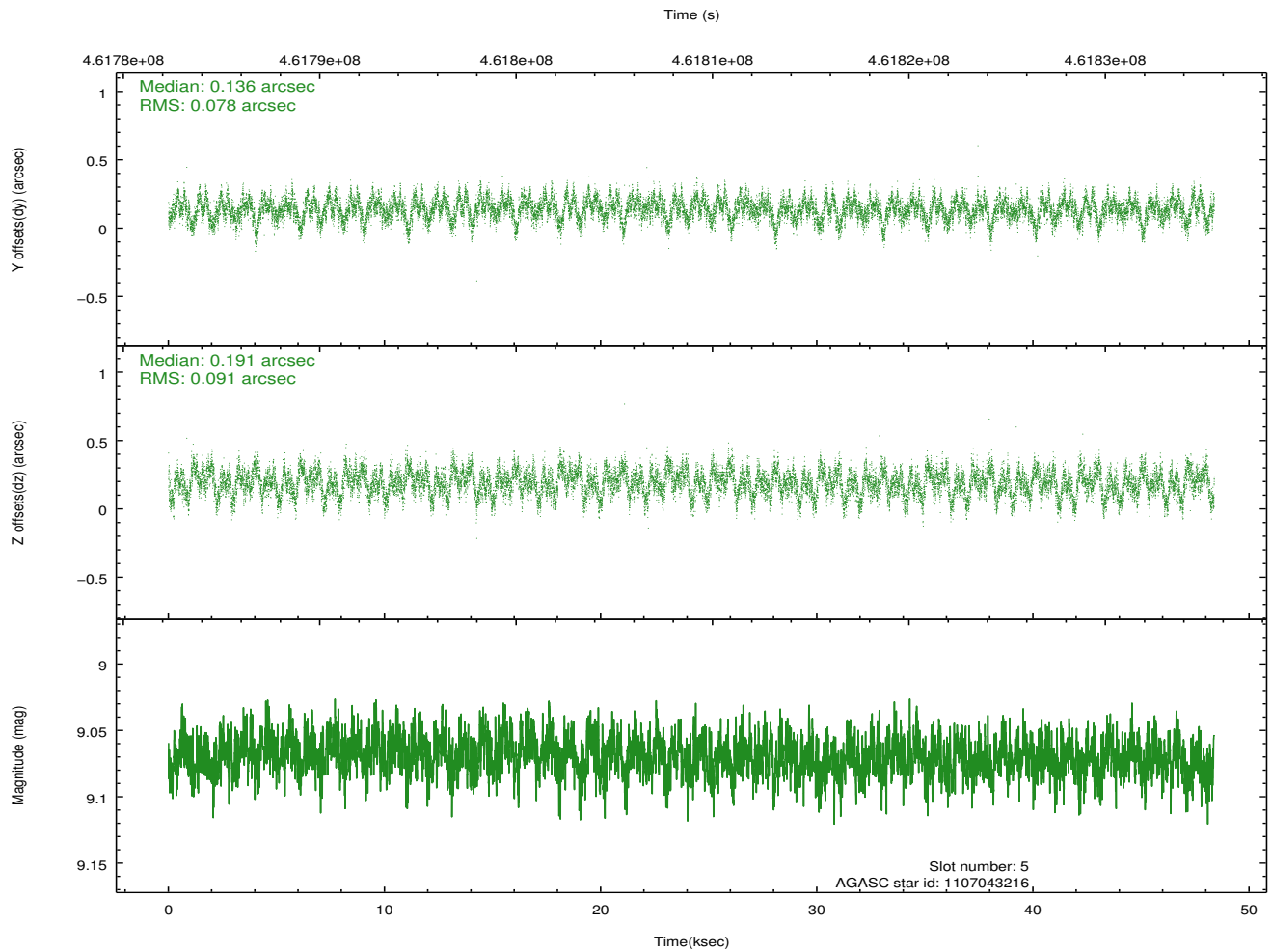
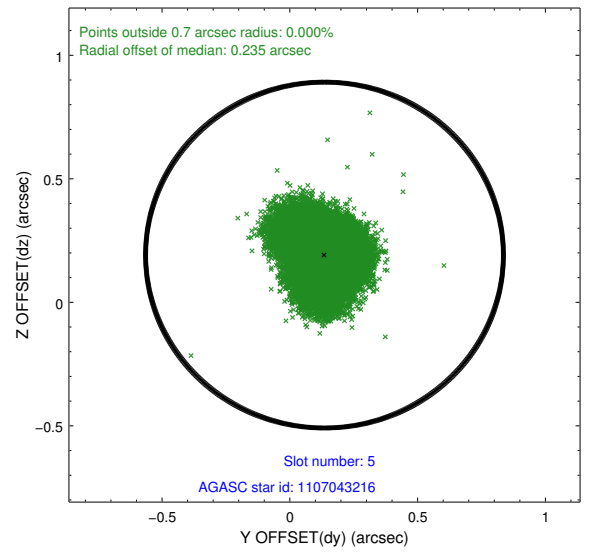
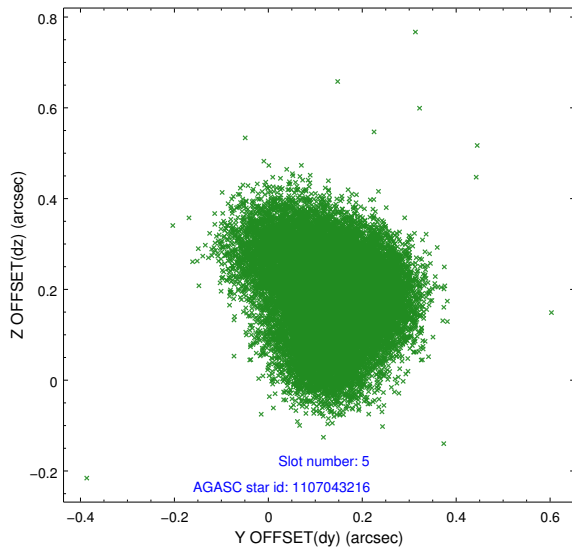
2.4.1 Slot 3



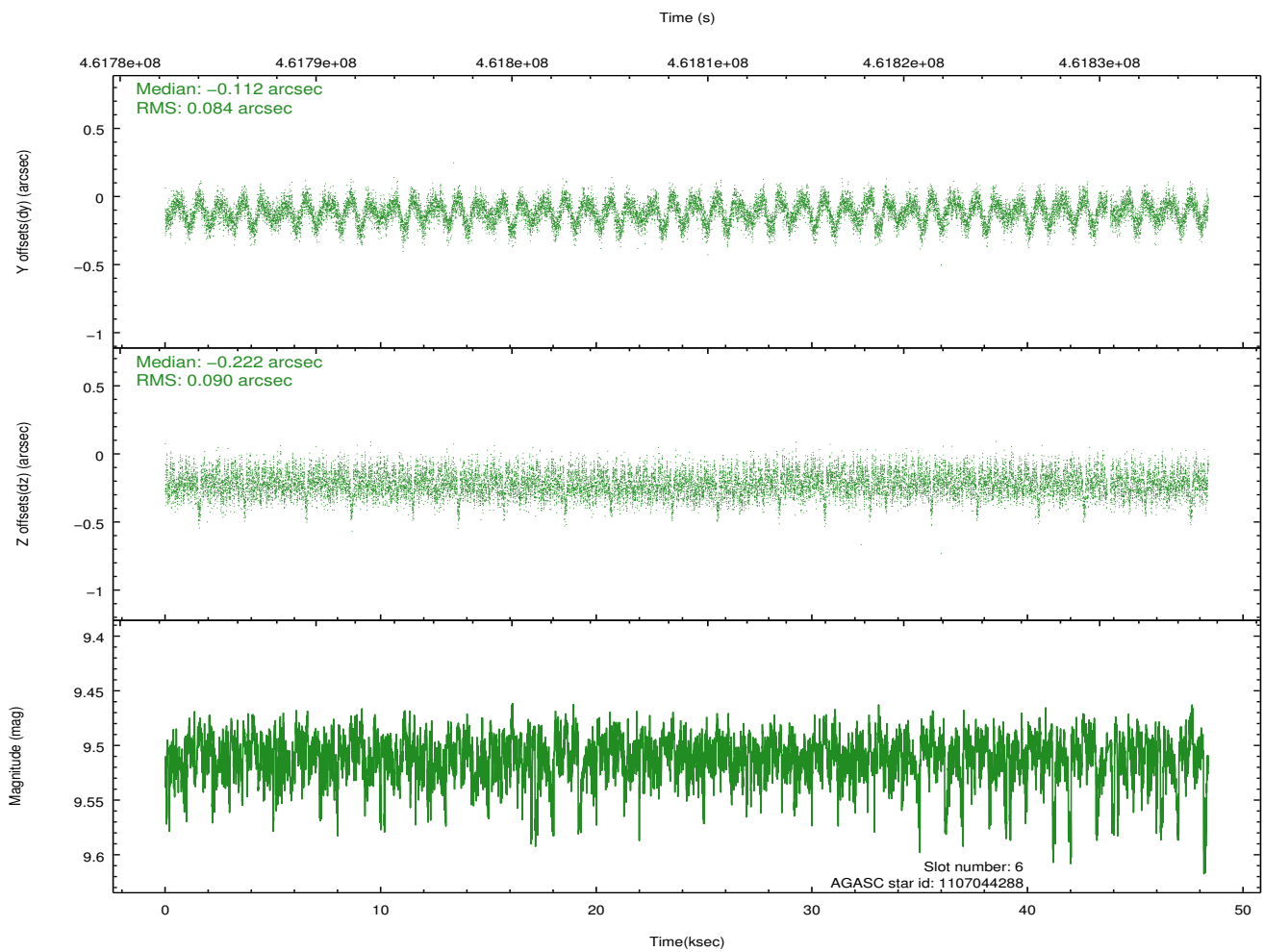
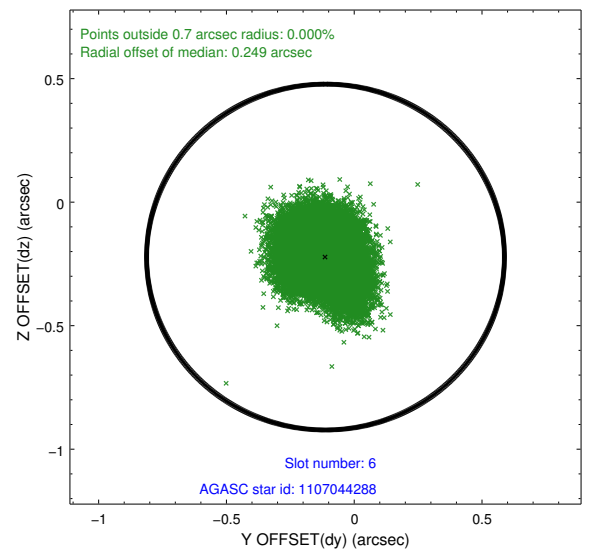
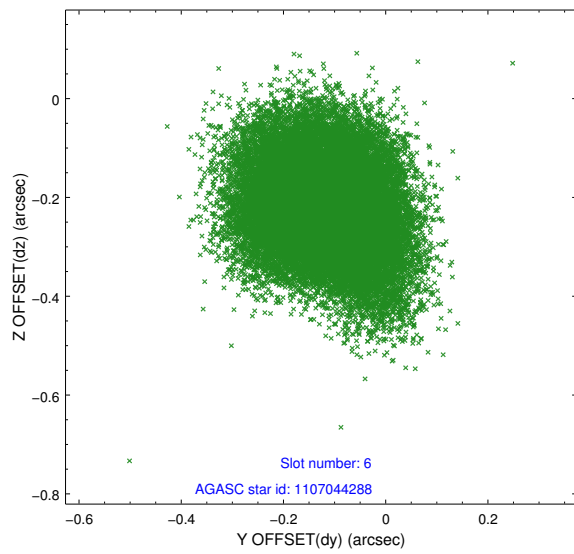
2.4.2 Slot 4



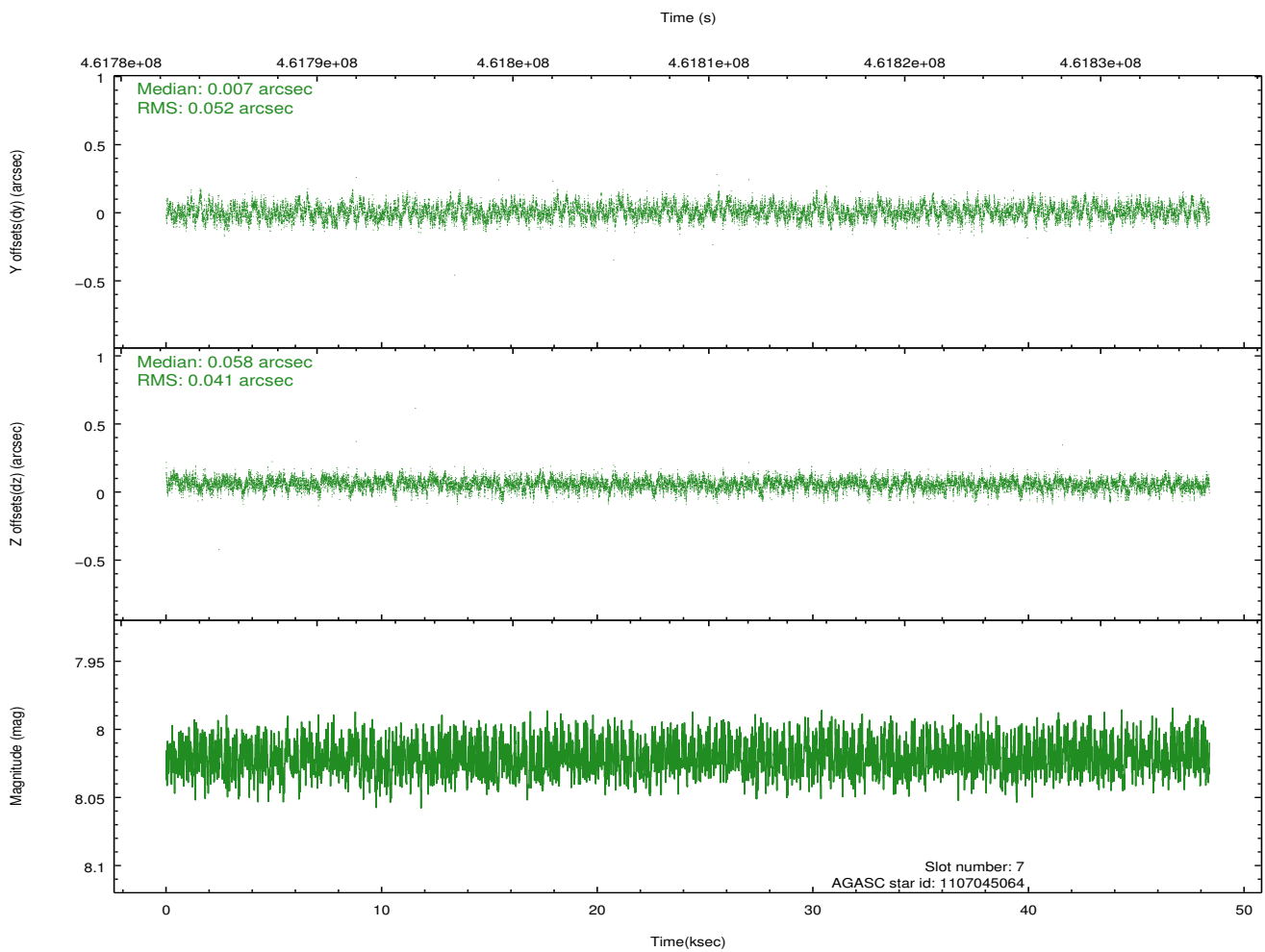
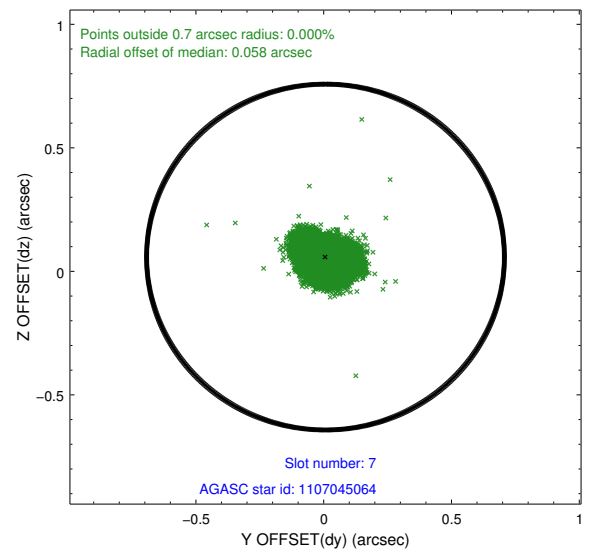
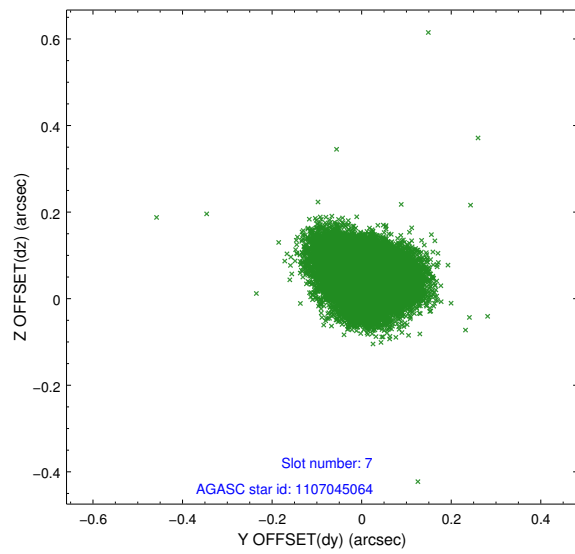
2.4.3 Slot 5



2.4.4 Slot 6

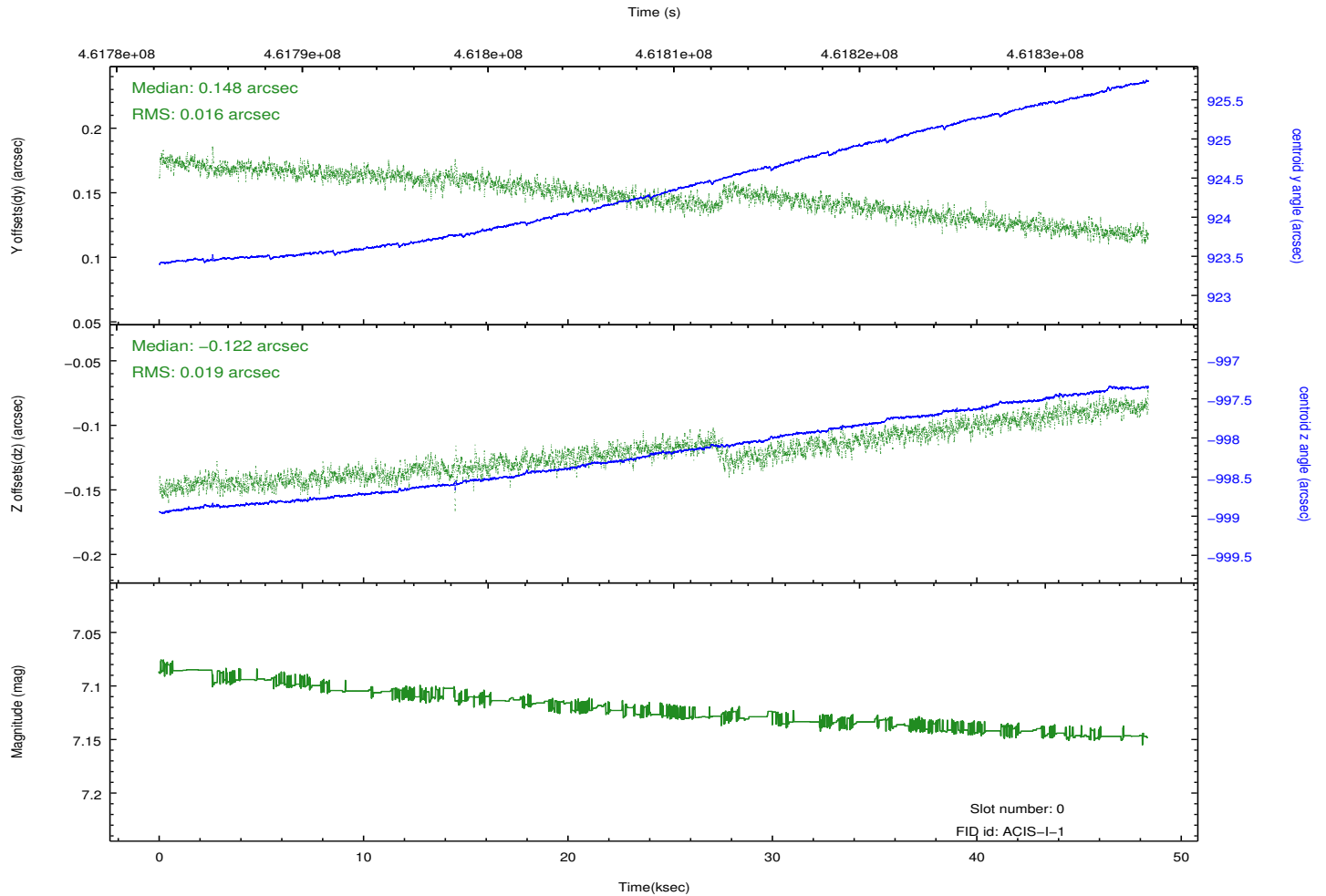
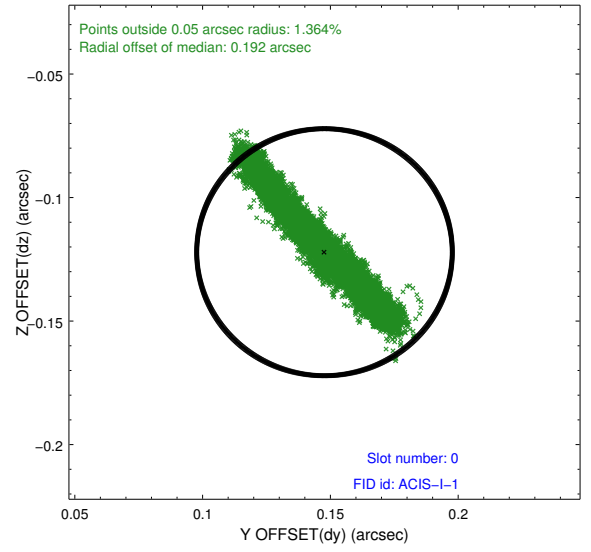
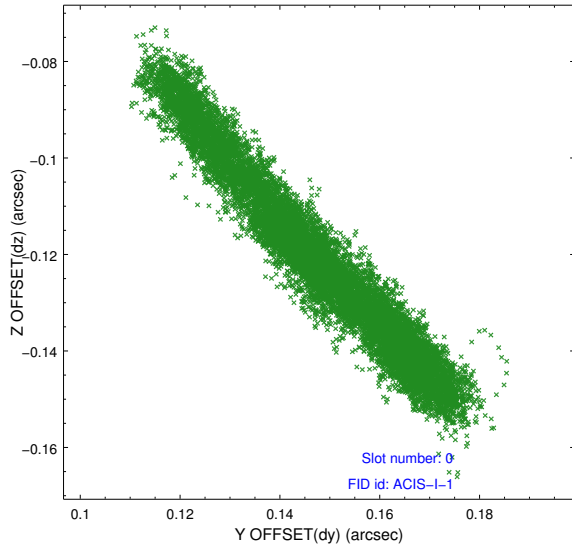


2.4.5 Slot 7

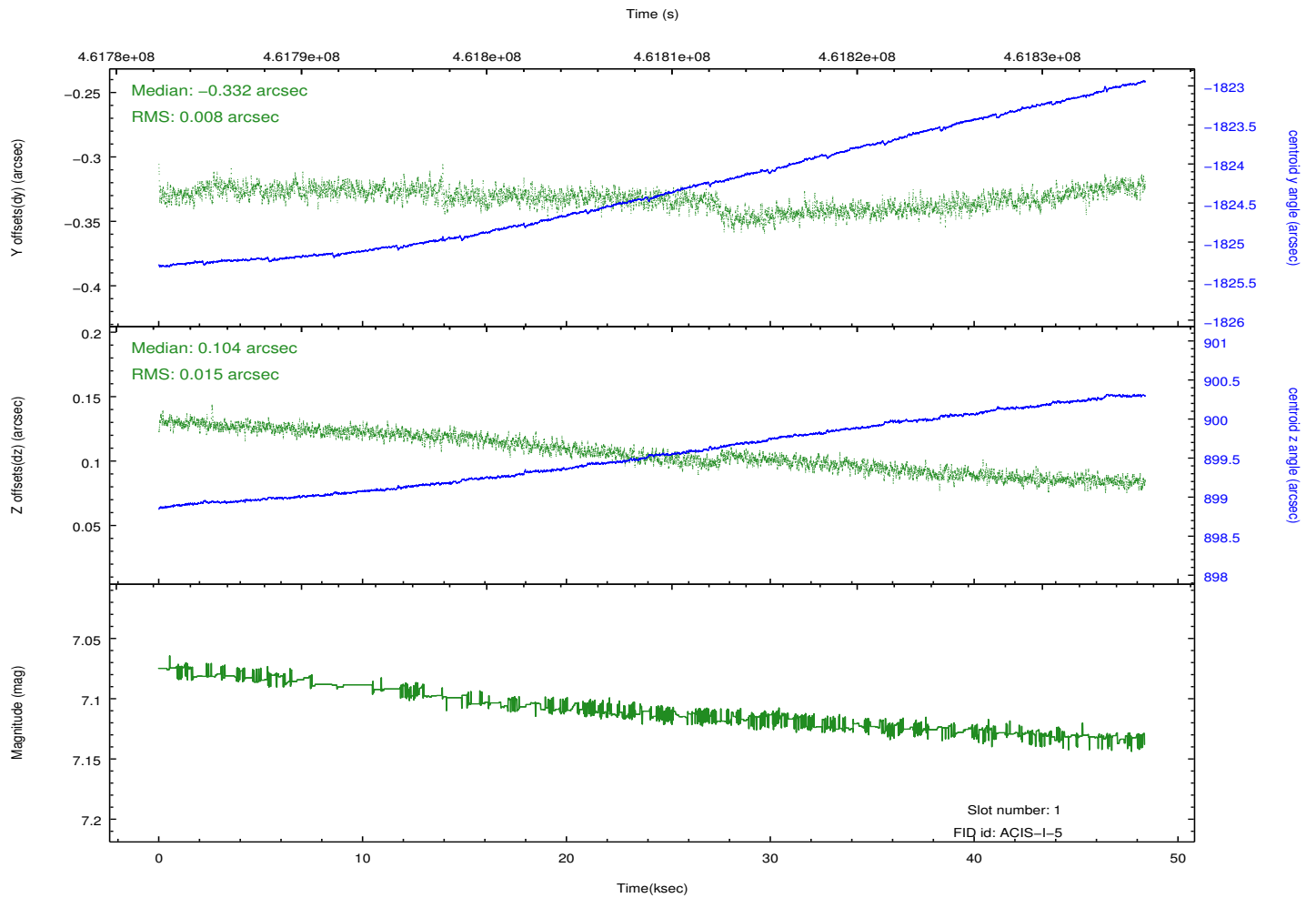
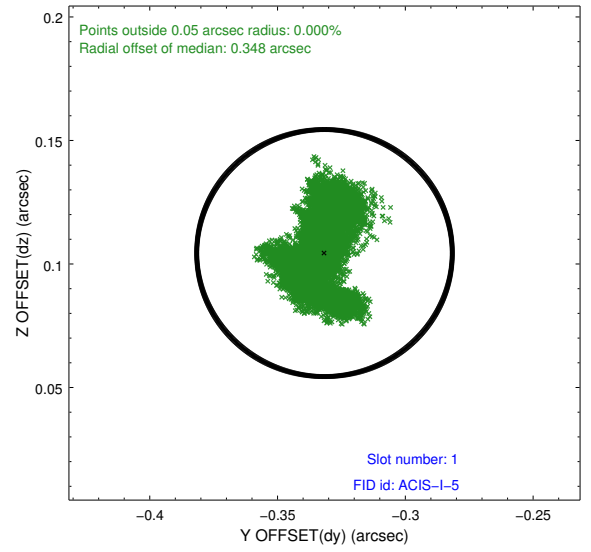
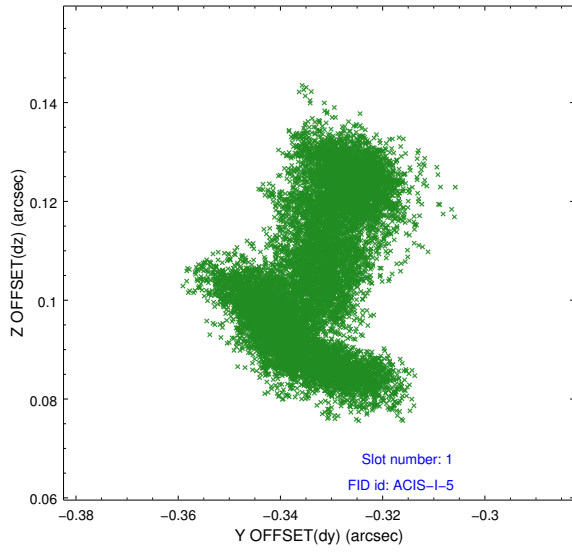


2.5 FID Slots

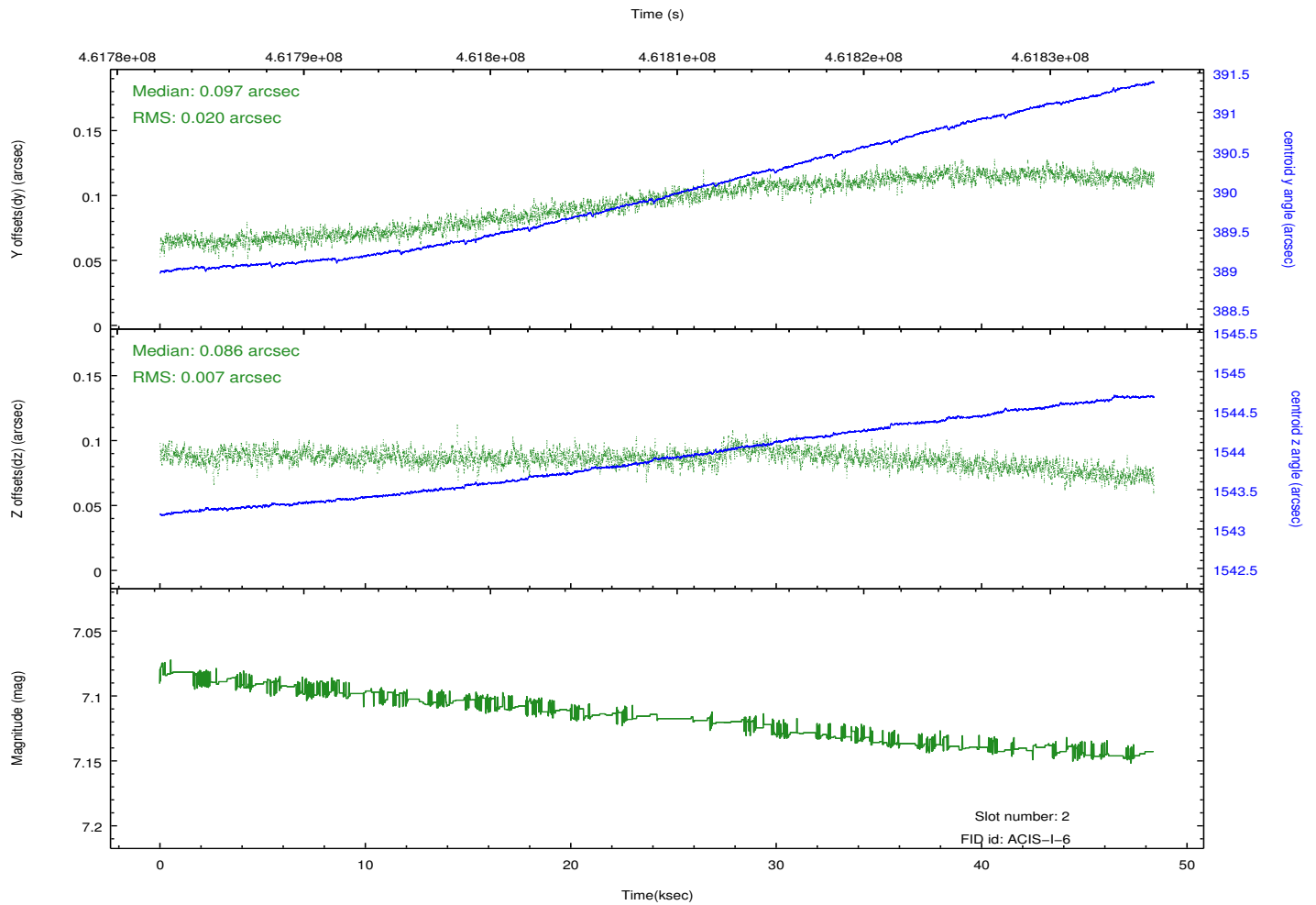
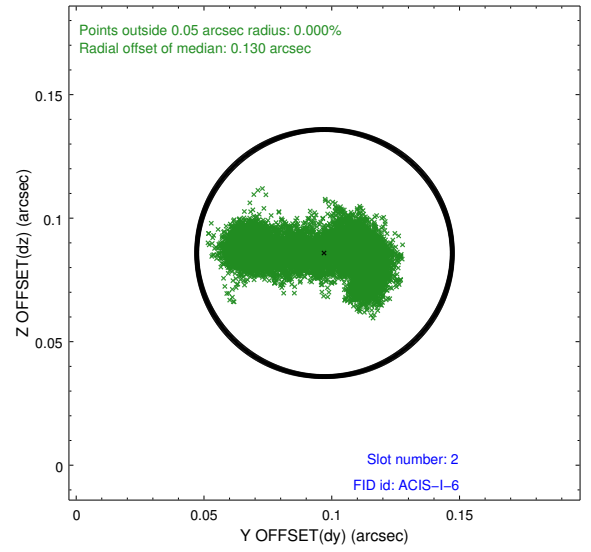
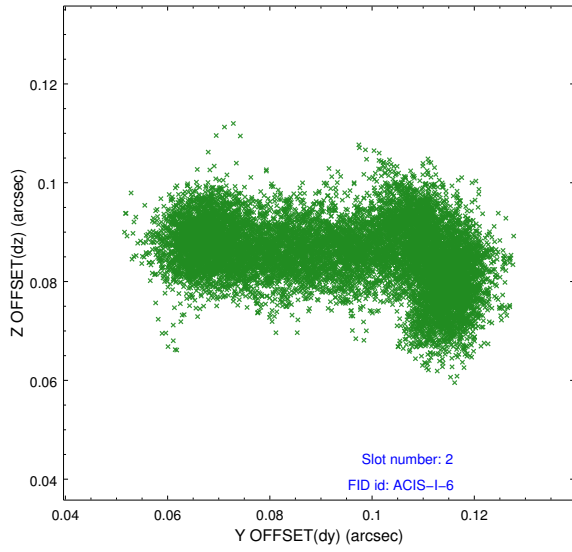
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.282459320962

A.2 Comments