

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11739 - L2 Version 2
Chandra X-Ray Center

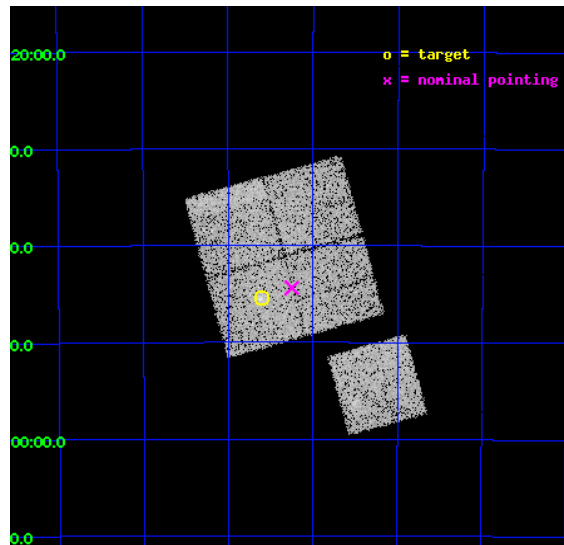
L2 Processing Date : Jun 29 2012

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1 Front

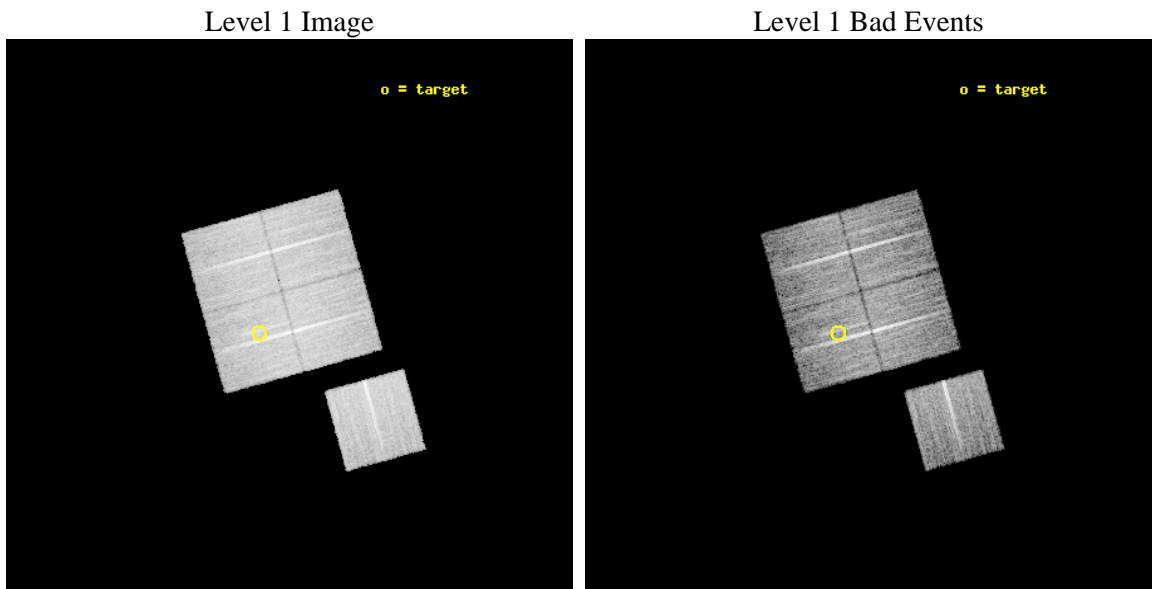
seq_num	800879	Sequence number
obs_id	11739	Observation id
title	Chandra Observations of a Complete Sample of SZE Selected Galaxy Clusters	Proposal title
observer	Dr Joseph Mohr	Principal investigator
object	SPT-CL 0547-5345	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.65	Observer's specified target RA [deg]
dec_targ	-53.756	Observer's specified target Dec [deg]
ra_nom	86.562258898408	Nominal RA [deg]
dec_nom	-53.739578936048	Nominal Dec [deg]
roll_nom	164.47702234608	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12947.499911785	Sum of GTIs [s]
livetime	12778.331293627	Livetime [s]
ontime0	12947.376791775	Sum of GTIs [s]
ontime1	12947.417831779	Sum of GTIs [s]
ontime2	12947.458871782	Sum of GTIs [s]
ontime3	12947.499911785	Sum of GTIs [s]
ontime6	12944.194761574	Sum of GTIs [s]
l2events	45375	Number of level 2 events



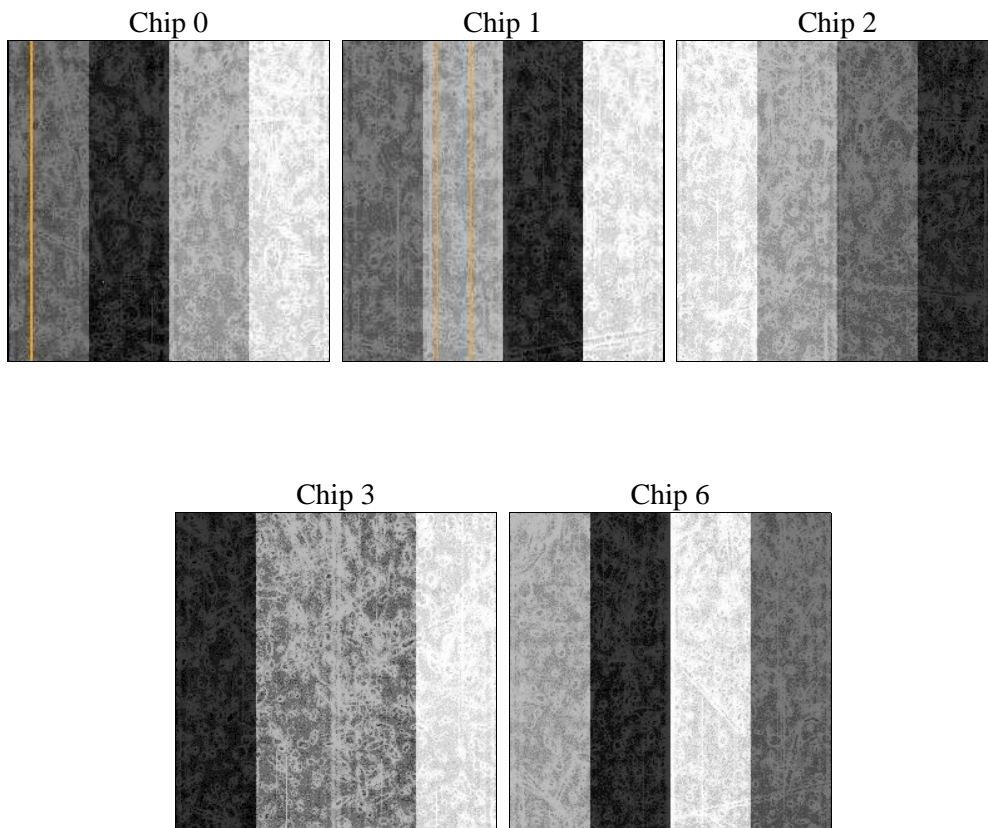
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	12947.499911785	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	12947.376791775	Sum of GTIs [s]
date	2012-06-29T11:22:06	Date and time of file creation	ontime1	12947.417831779	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	12947.458871782	Sum of GTIs [s]
			ontime3	12947.499911785	Sum of GTIs [s]
			ontime6	12944.194761574	Sum of GTIs [s]
			l1events	465875	Number of level 1 events

2.1.4 Events

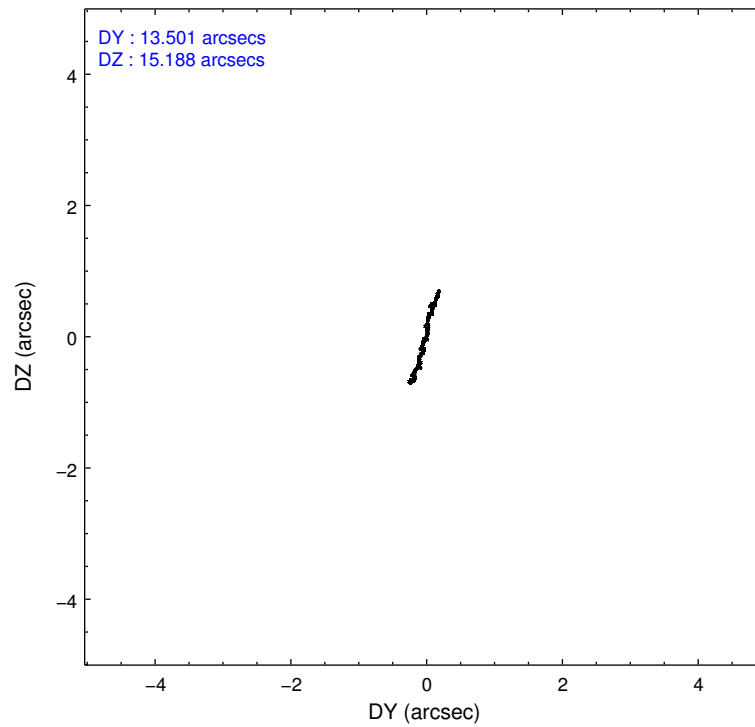
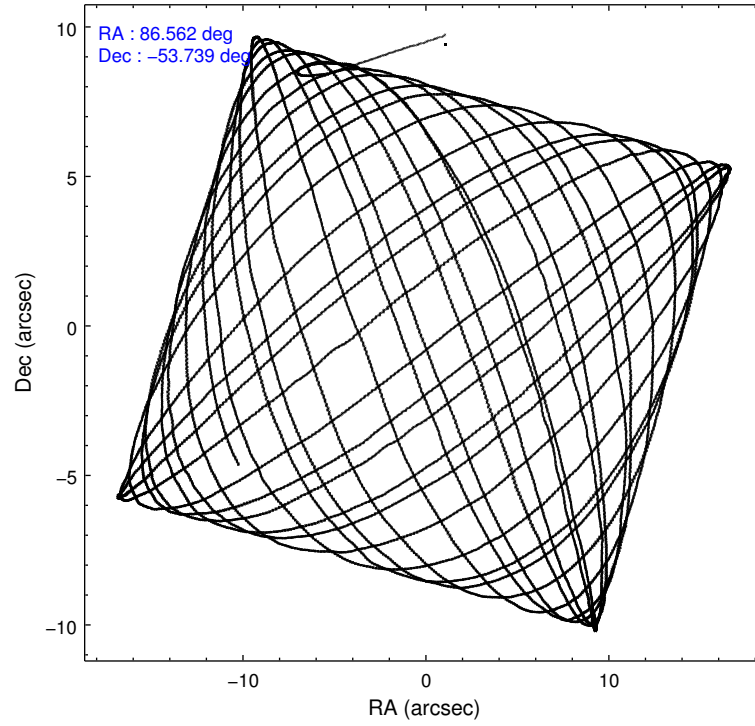
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	90117	90243	96606	93435	95474
rejected events	79553	78485	86115	83222	84599
rejected %	88%	86%	89%	89%	88%

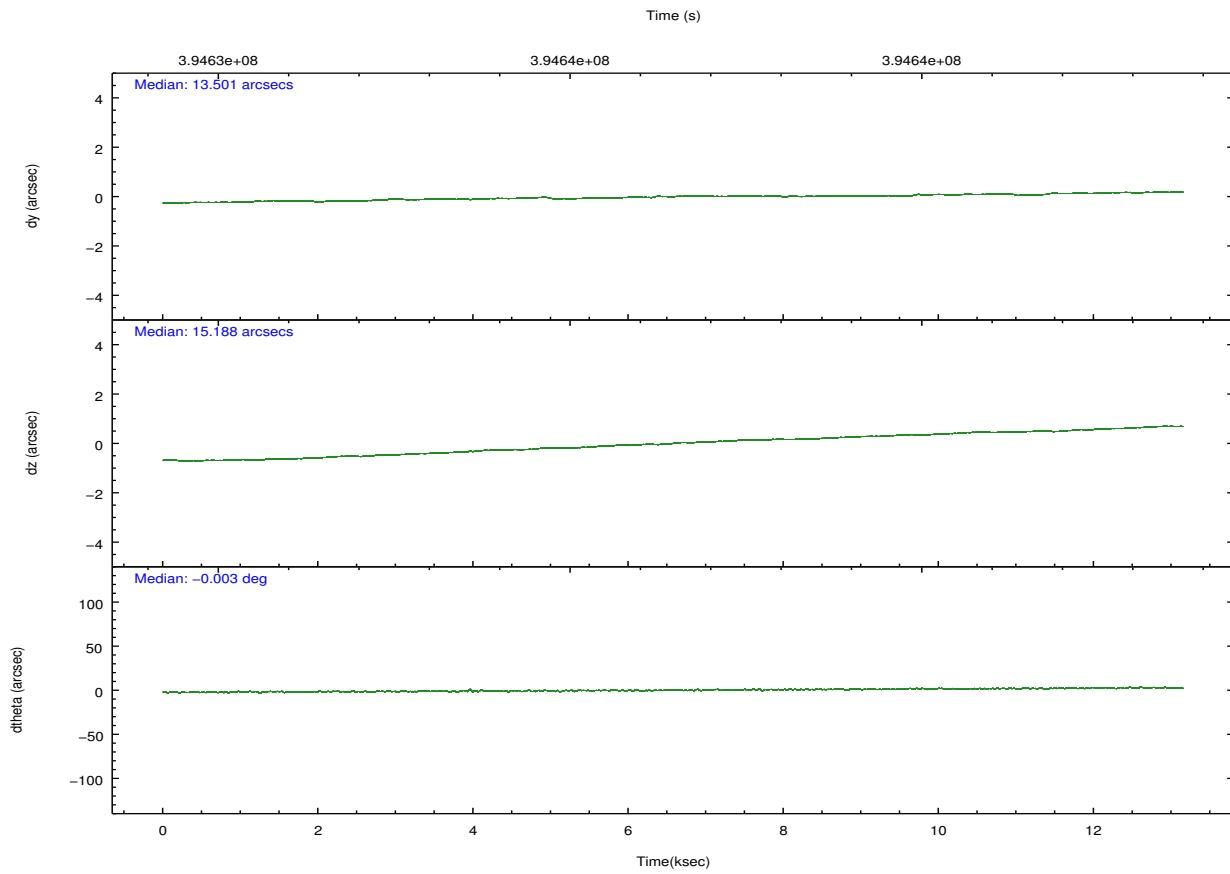
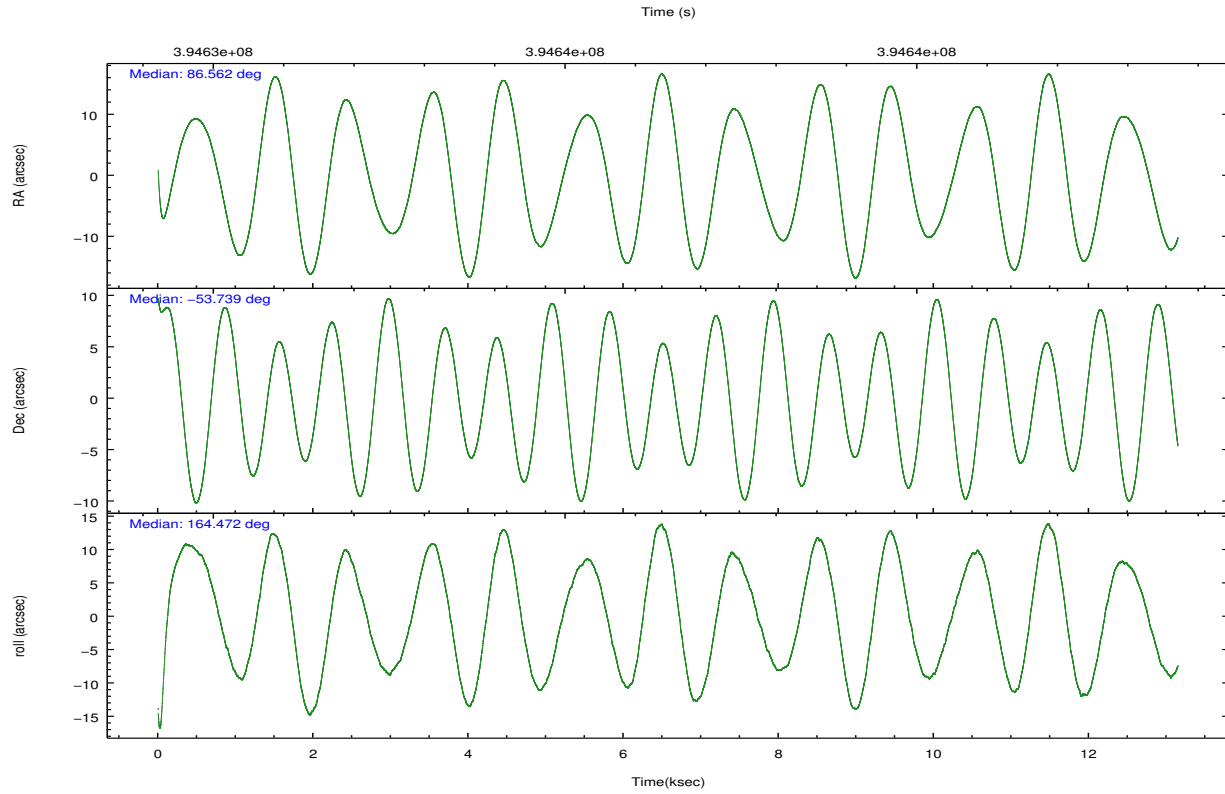
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3635	4366	3768	3889	3886
	4%	4%	3%	4%	4%
grade 1 events	46	47	54	73	46
	0%	0%	0%	0%	0%
grade 2 events	2682	2680	2582	2161	2359
	2%	2%	2%	2%	2%
grade 3 events	1138	1160	1041	1110	1111
	1%	1%	1%	1%	1%
grade 4 events	1037	1171	1061	1070	1054
	1%	1%	1%	1%	1%
grade 5 events	3768	4071	3824	4385	4195
	4%	4%	3%	4%	4%
grade 6 events	2079	2384	2046	1986	2469
	2%	2%	2%	2%	2%
grade 7 events	75732	74364	82230	78761	80354
	84%	82%	85%	84%	84%

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	86.607241	86.56225889840786	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.732636	-53.73957893604762	CCD I3 on	Y	Y
[deg] Pointing Roll	164.304626	164.4770223460782	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	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	394630143.184000	394629020.84637	CCD S5 on	N	N
Observation start date	2010-07-04T11:27:57	2010-07-04T11:10:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	394643043.184000	394643274.4971	On-chip summing requested	N	N
Observation end date	2010-07-04T15:02:57	2010-07-04T15:07:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



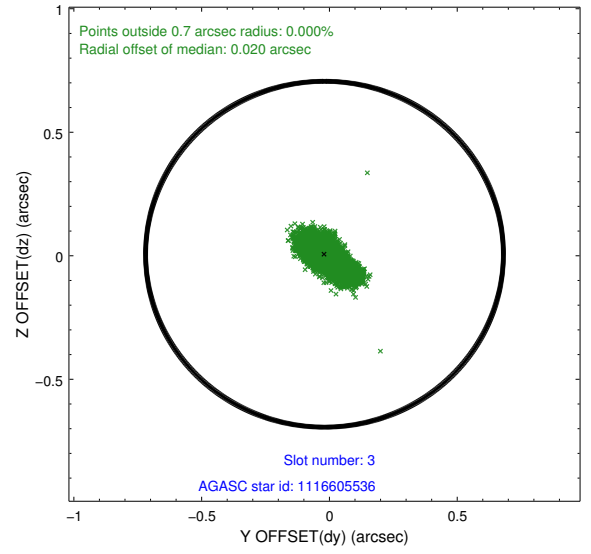
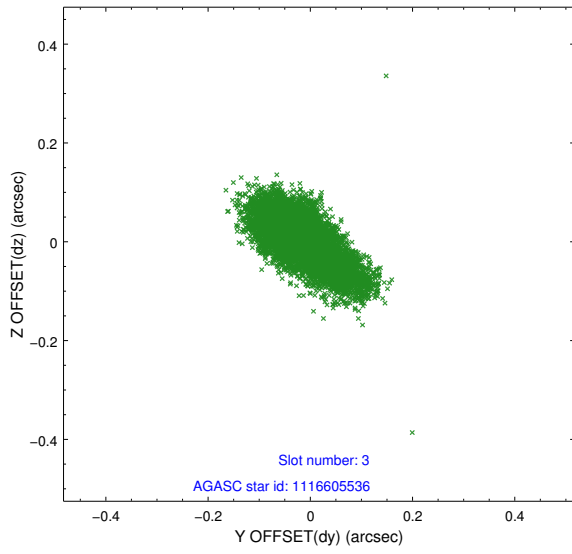


Slot Statistics

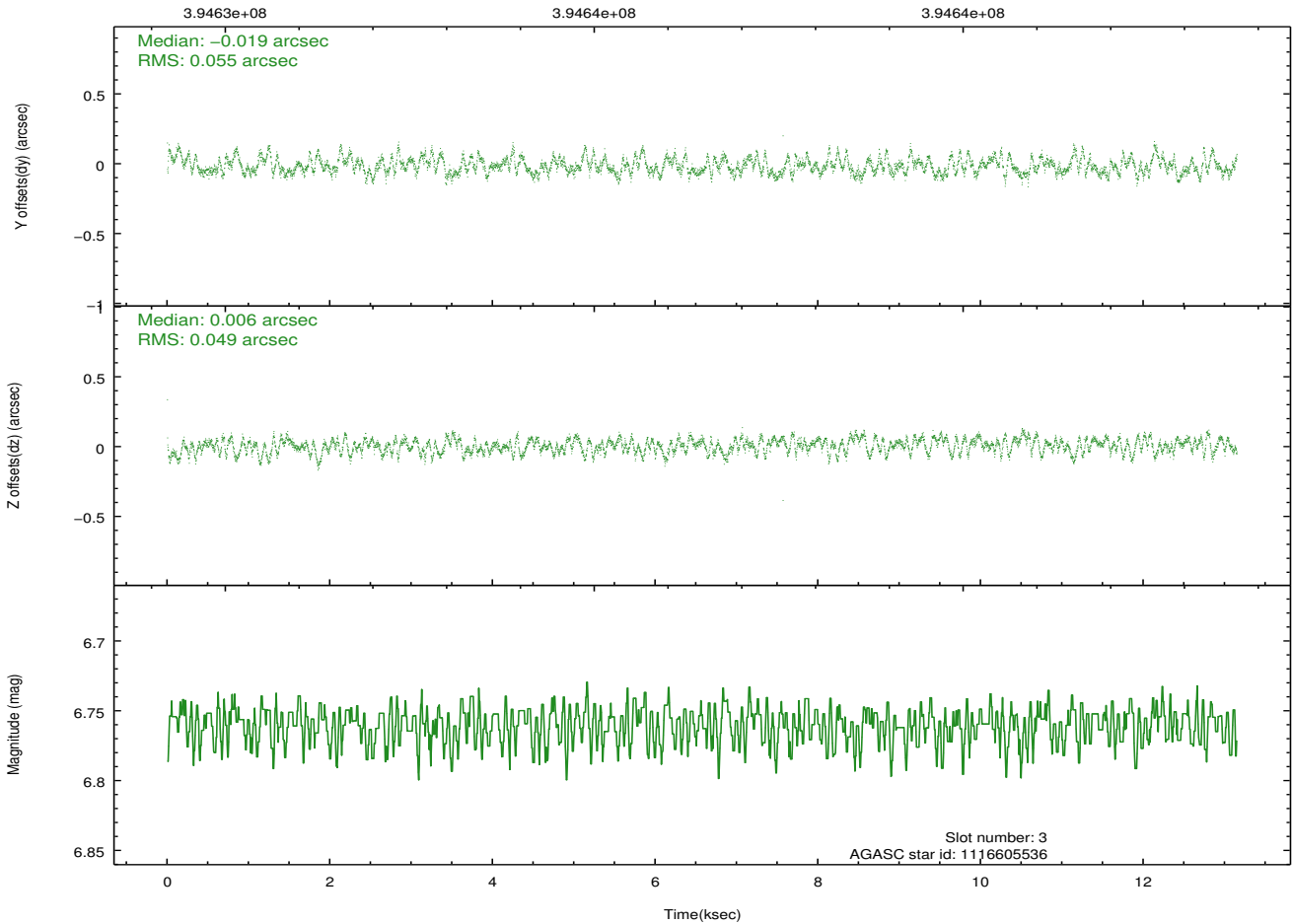
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	3207	0.104	-0.075	0.014	0.024	0.000000	0.000000	926.00	-997.91
1	FID	ACIS-I-5	7.01	3207	-0.271	0.085	0.012	0.020	0.000000	0.000000	-1822.30	899.47
2	FID	ACIS-I-6	7.03	3207	0.076	0.060	0.012	0.018	0.000000	0.000000	391.09	1544.40
3	GUIDE	1116605536	6.76	6415	-0.019	0.006	0.076	0.134	86.616629	-53.219322	480.02	-1782.72
4	GUIDE	1116606160	8.86	6410	-0.010	0.094	0.077	0.123	86.001781	-53.377531	1596.24	-872.73
5	GUIDE	1116606912	8.59	6407	0.058	-0.176	0.076	0.127	86.539686	-54.008936	-131.09	996.44
6	GUIDE	1116737688	7.71	6411	-0.073	0.042	0.062	0.099	87.142567	-53.676424	-1046.11	-497.92
7	GUIDE	1116740808	8.30	6410	0.039	0.041	0.066	0.105	87.655884	-53.417264	-1863.03	-1685.19

2.4 Star Slots

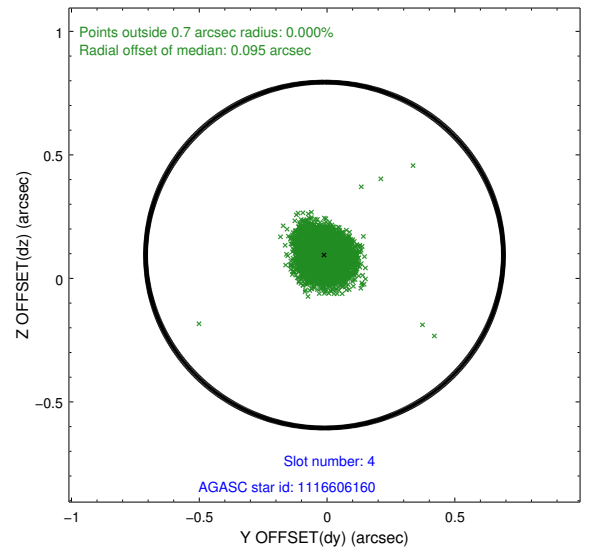
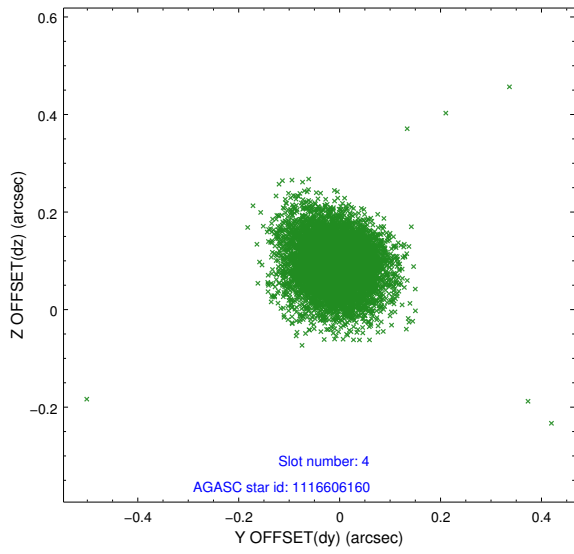
2.4.1 Slot 3



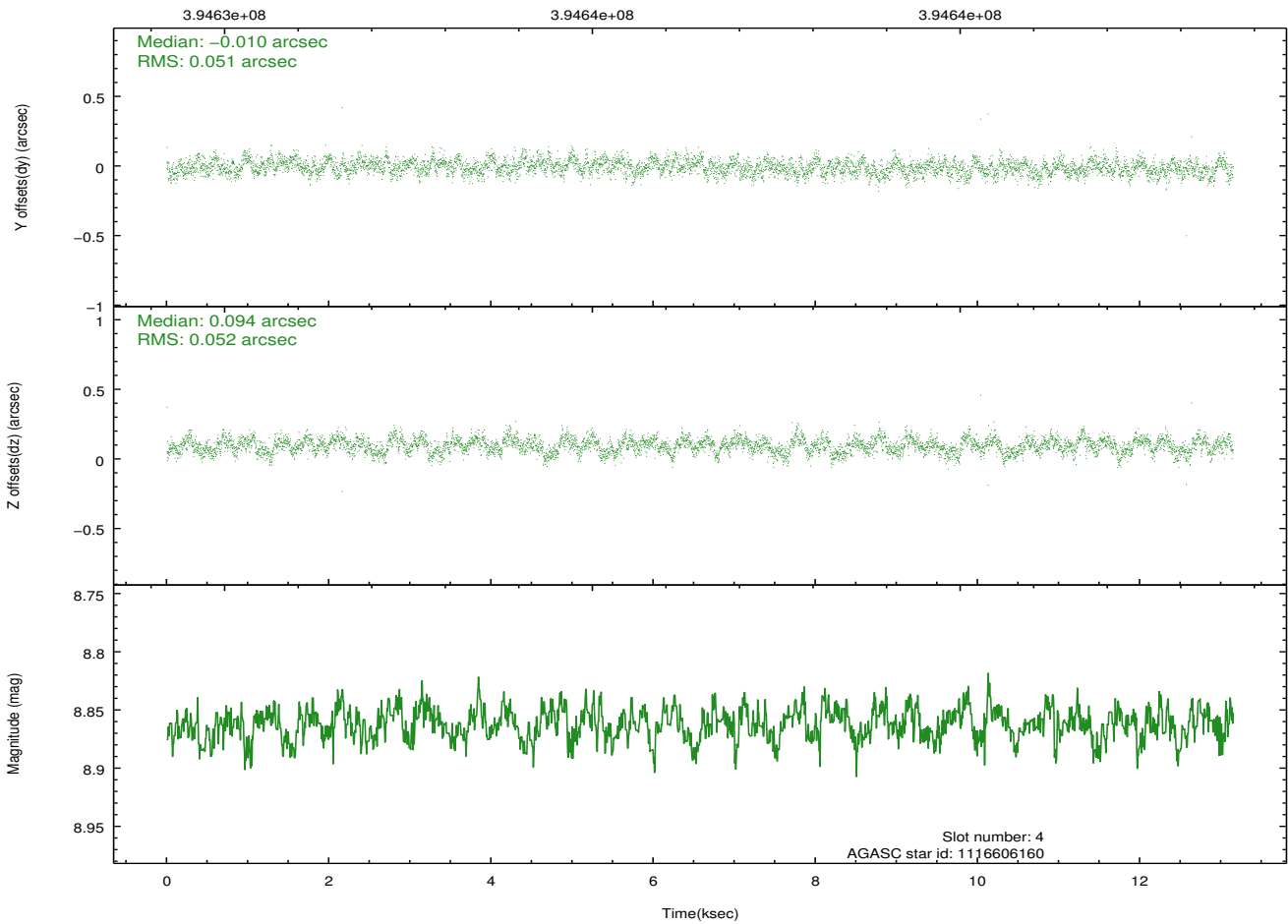
Time (s)



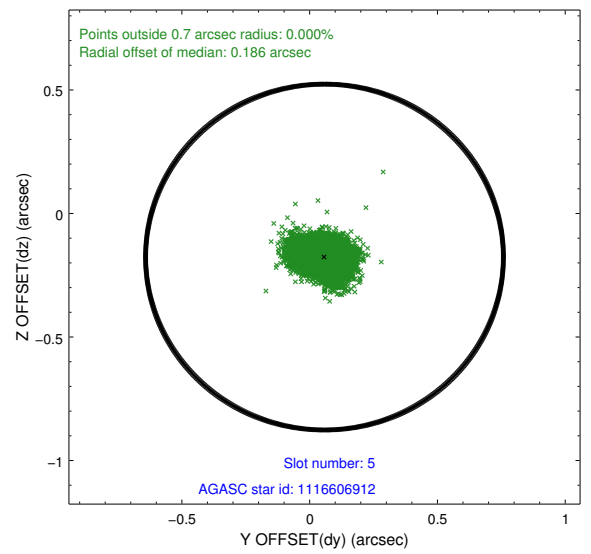
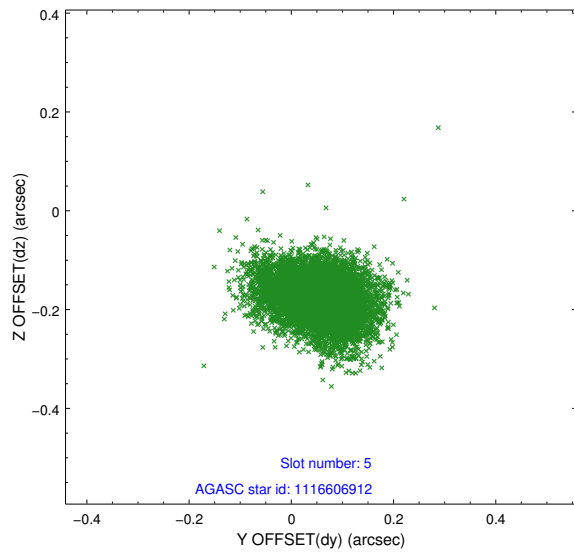
2.4.2 Slot 4



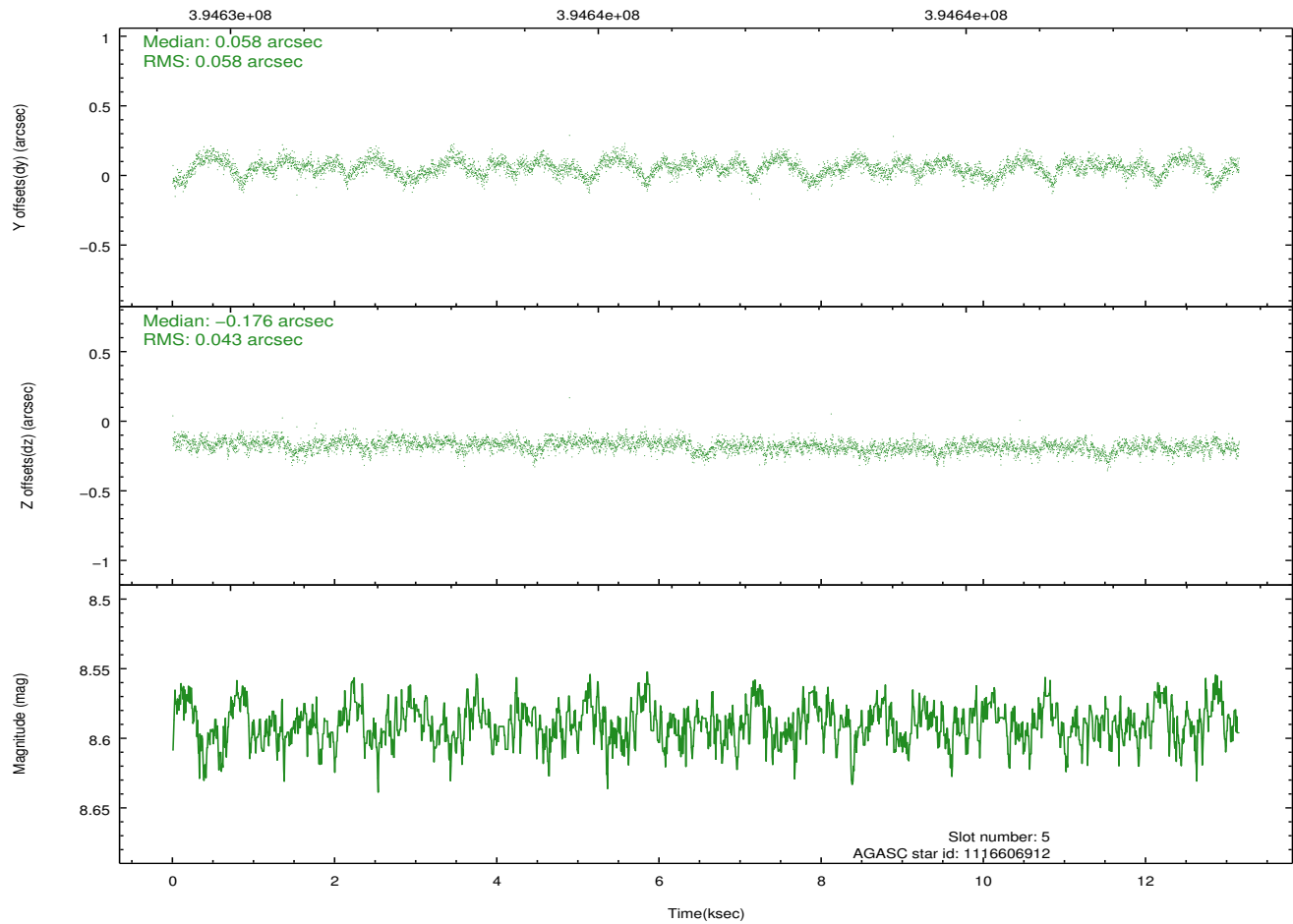
Time (s)



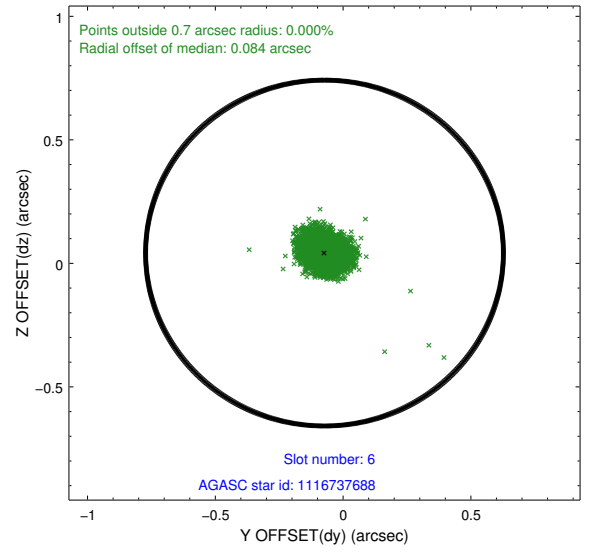
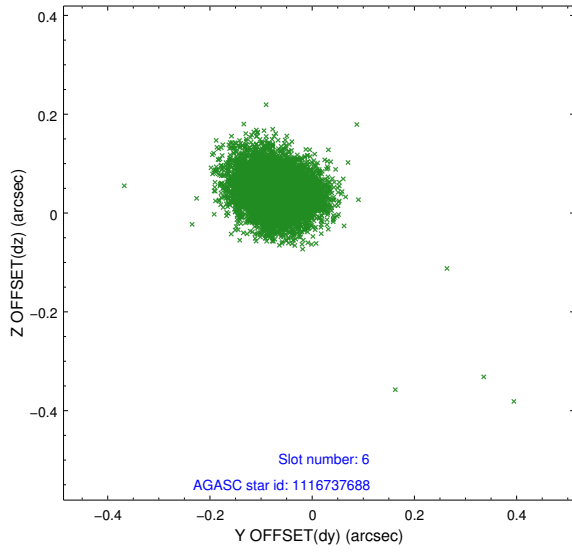
2.4.3 Slot 5



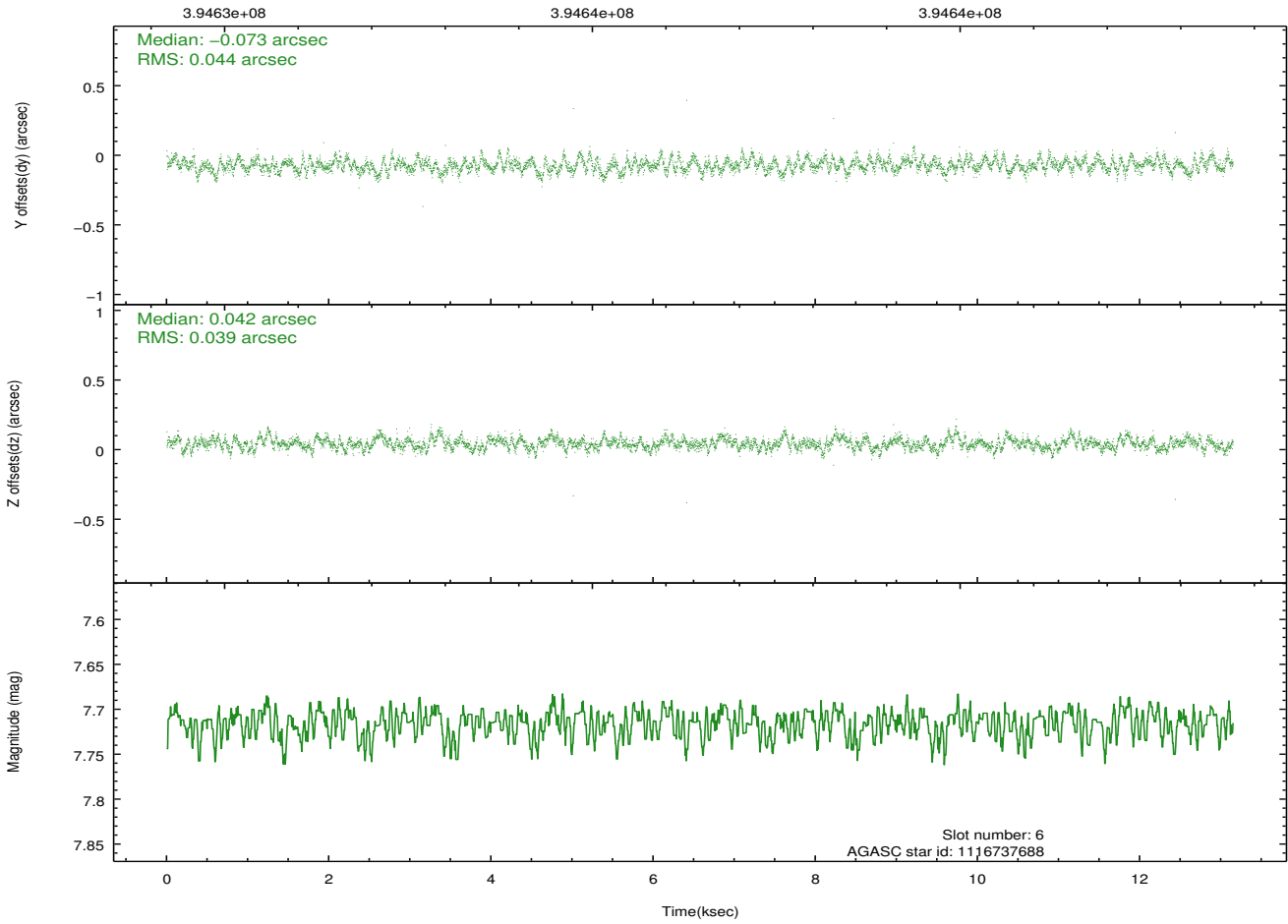
Time (s)



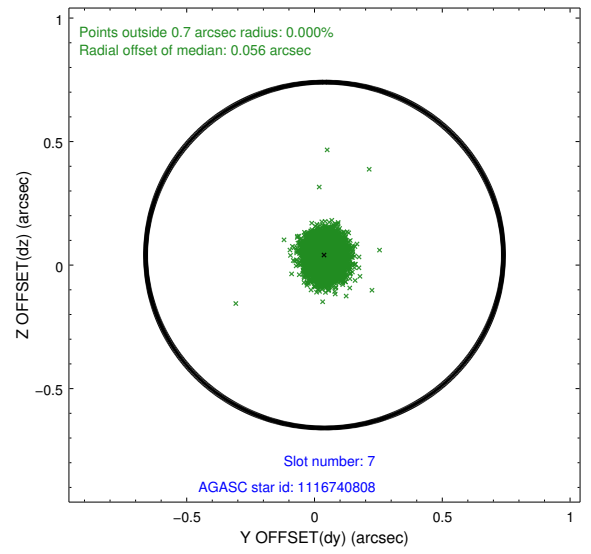
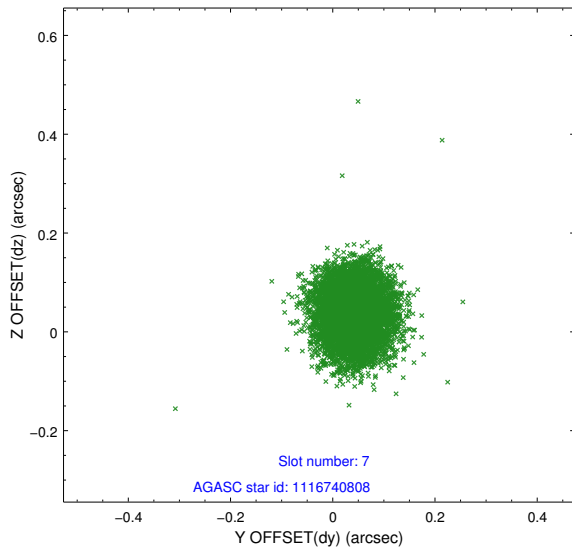
2.4.4 Slot 6



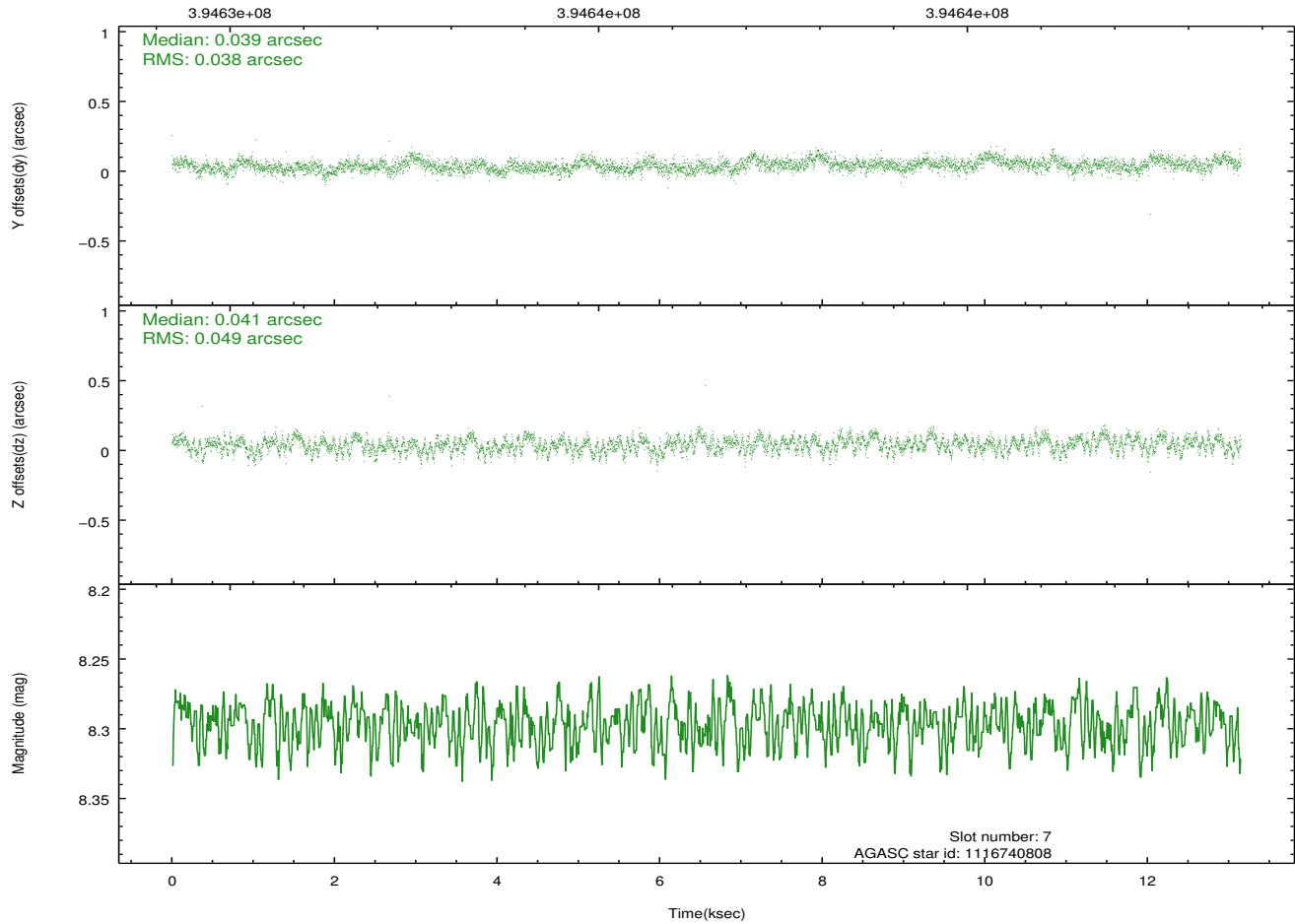
Time (s)



2.4.5 Slot 7

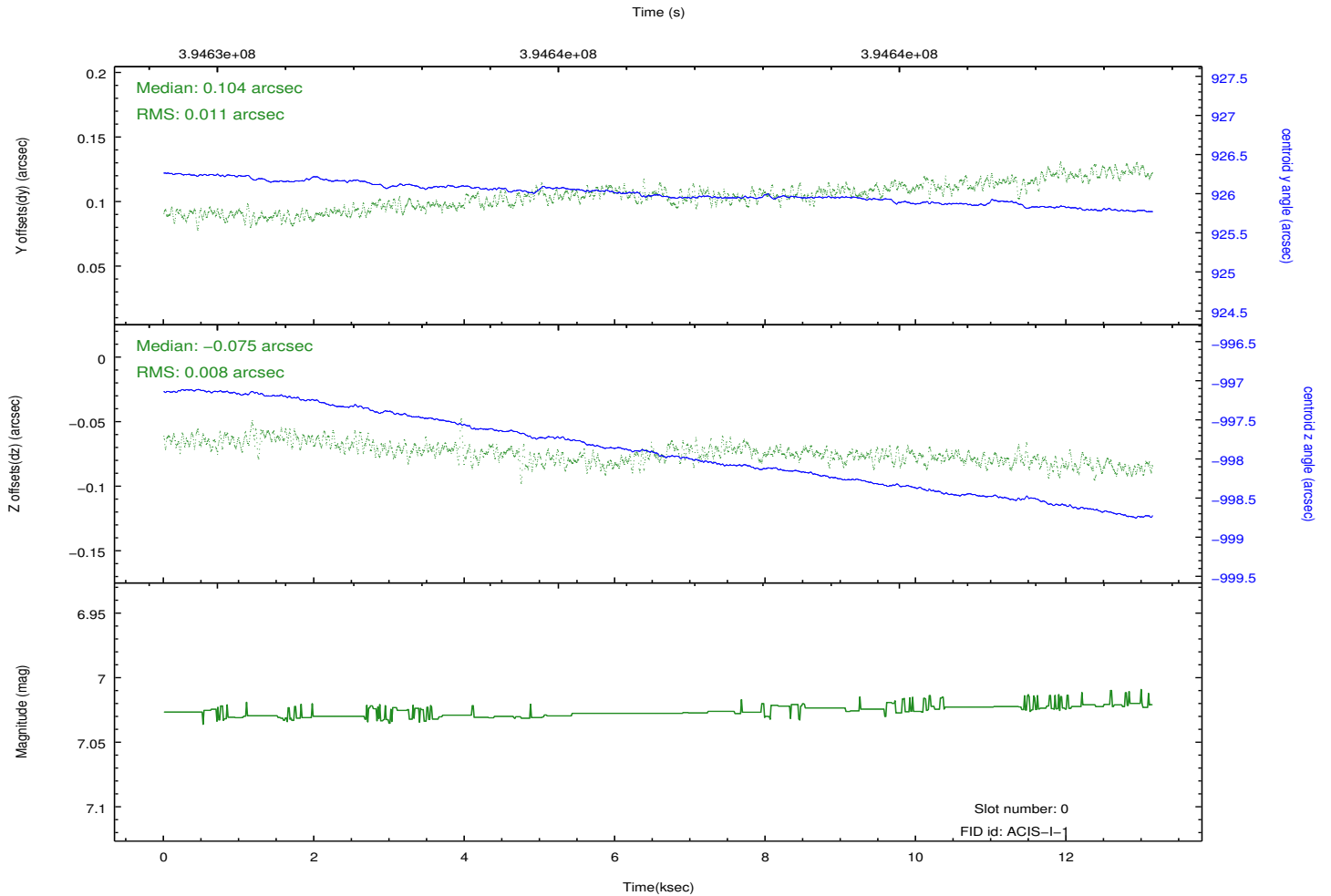
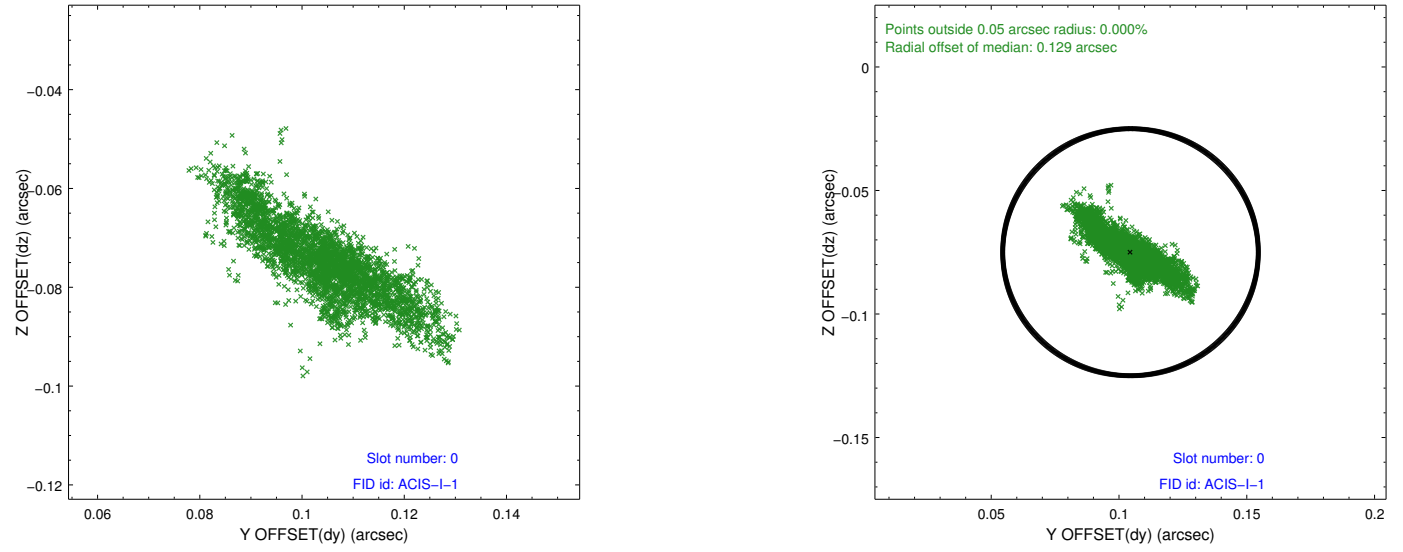


Time (s)

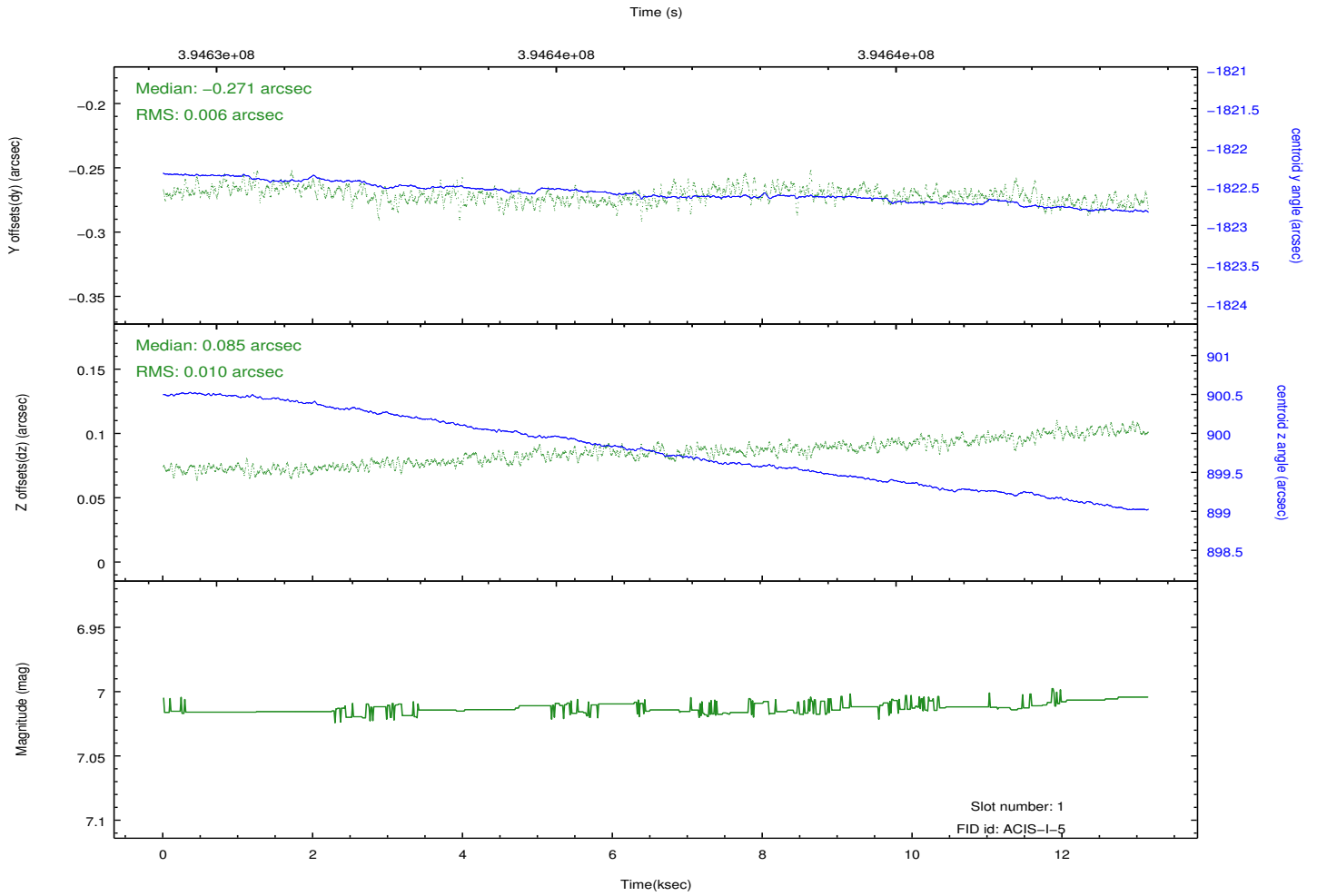
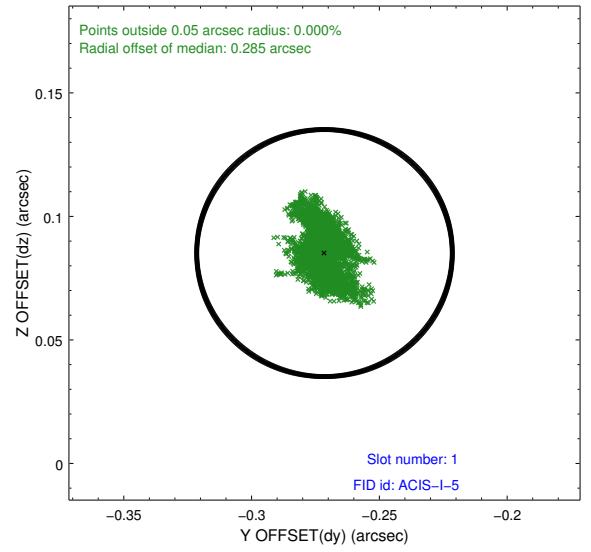
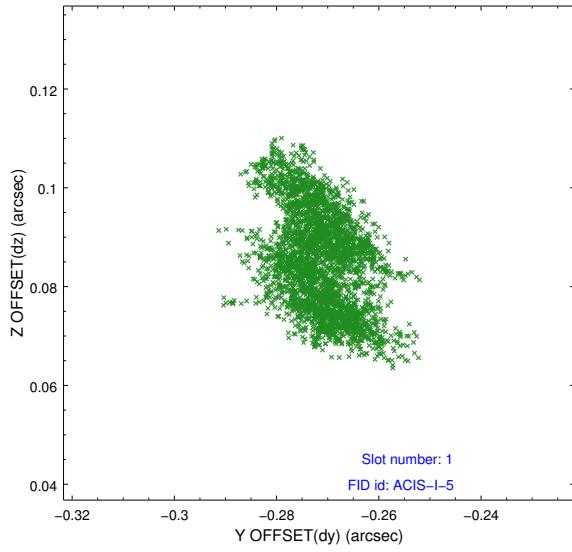


2.5 FID Slots

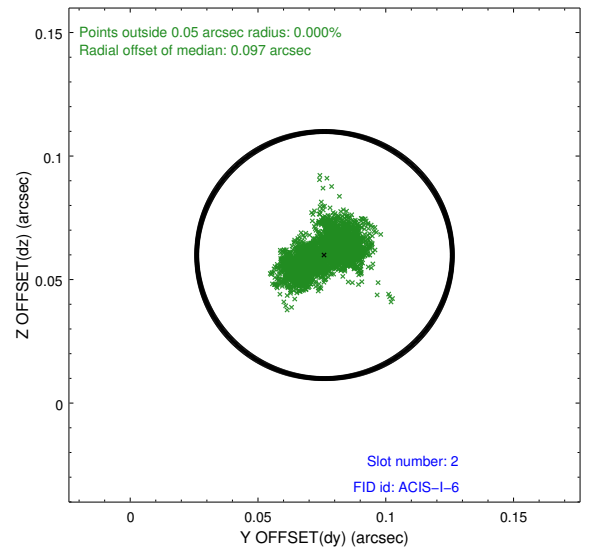
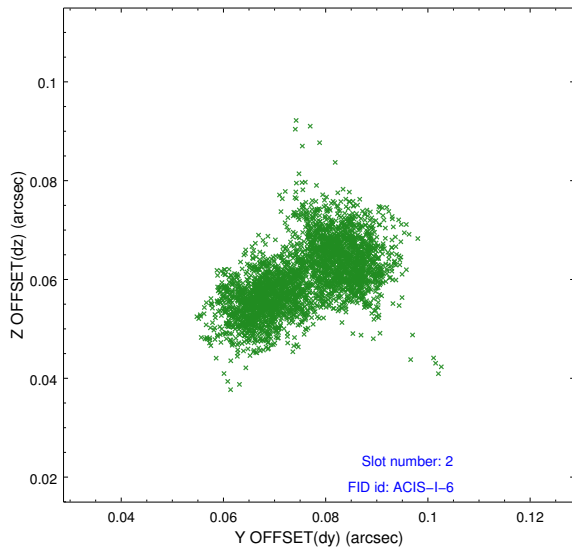
2.5.1 Slot 0



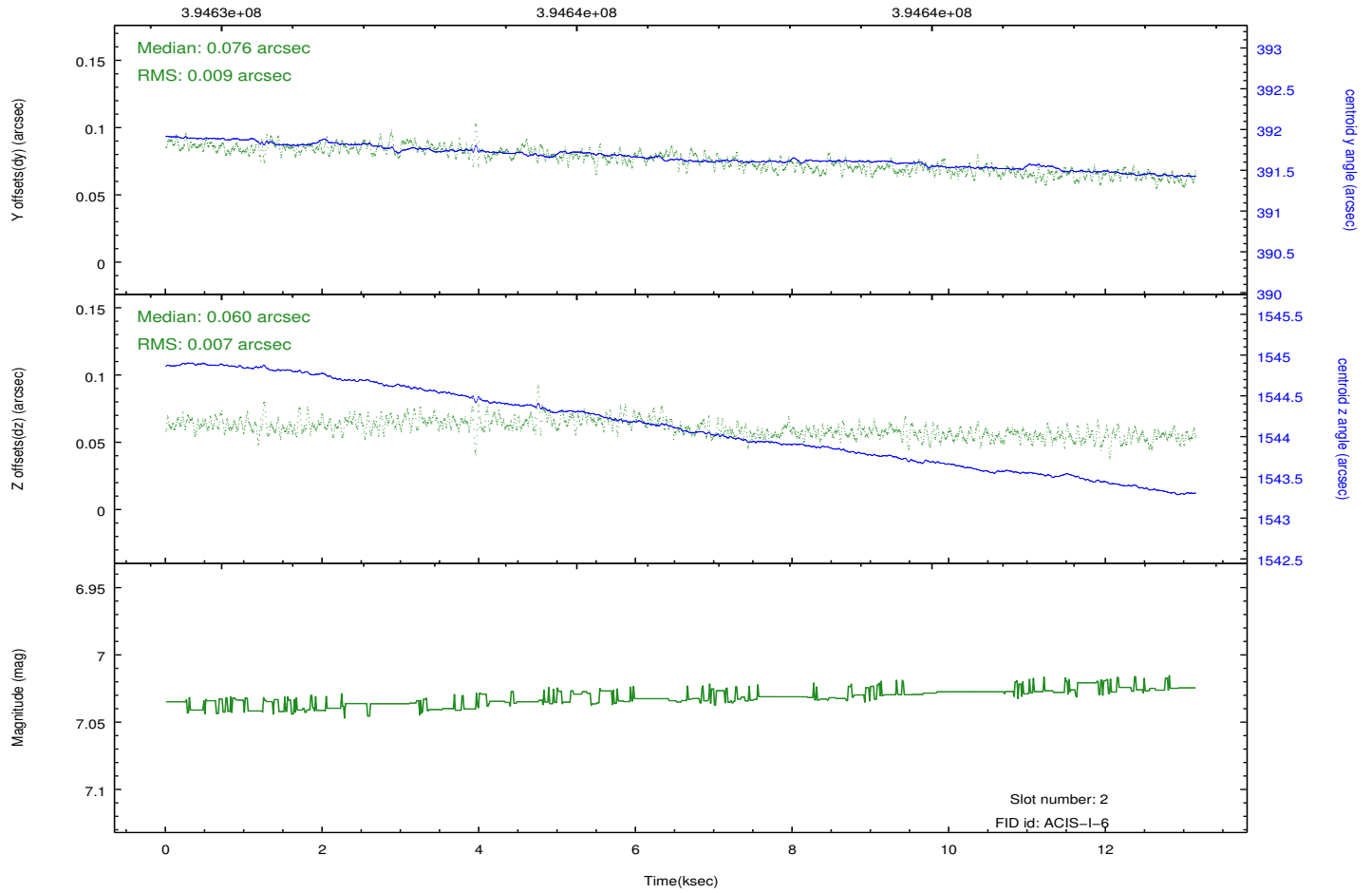
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.947499912381

A.2 Comments