

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10493 - L2 Version 2
Chandra X-Ray Center

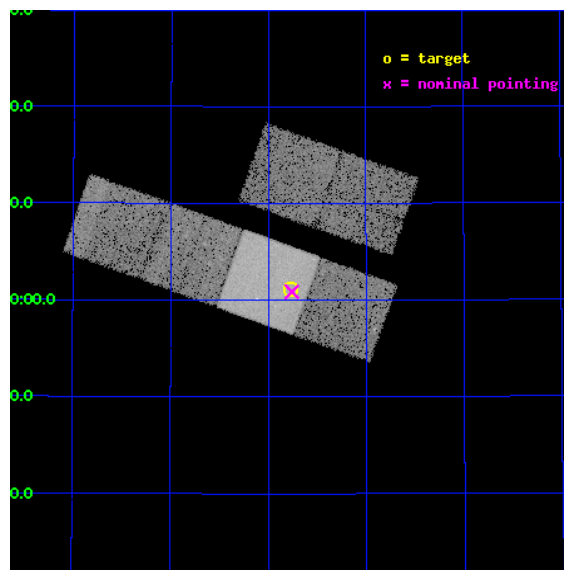
L2 Processing Date : Jun 6 2012

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1 Front

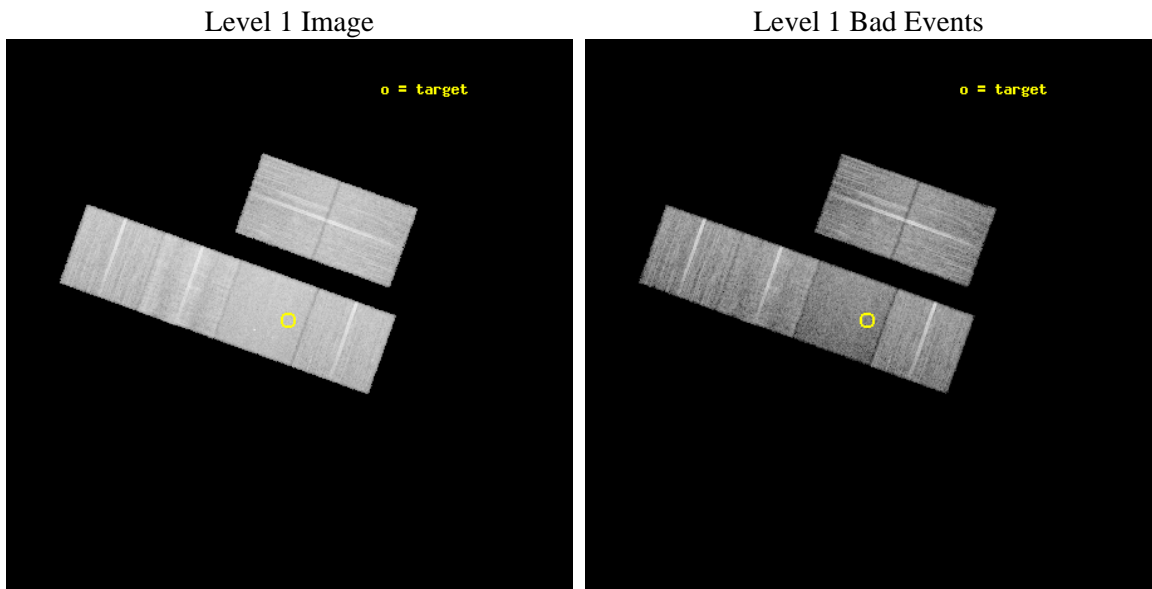
seq_num	900864	Sequence number
obs_id	10493	Observation id
title	Identifying the host galaxies for optically dark gamma-ray bursts	
observer	Dr Andrew Levan	Principal investigator
object	GRB090417B	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	209.69425	Observer's specified target RA [deg]
dec_targ	47.018167	Observer's specified target Dec [deg]
ra_nom	209.68977255481	Nominal RA [deg]
dec_nom	47.014381068731	Nominal Dec [deg]
roll_nom	199.60727459982	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13878.385900497	Sum of GTIs [s]
liveltime	13702.649421665	Livetime [s]
ontime2	13878.221740484	Sum of GTIs [s]
ontime3	13878.303820491	Sum of GTIs [s]
ontime6	13878.344860494	Sum of GTIs [s]
ontime7	13878.385900497	Sum of GTIs [s]
ontime8	13878.262780488	Sum of GTIs [s]
ontime9	13878.399948359	Sum of GTIs [s]
l2events	117532	Number of level 2 events



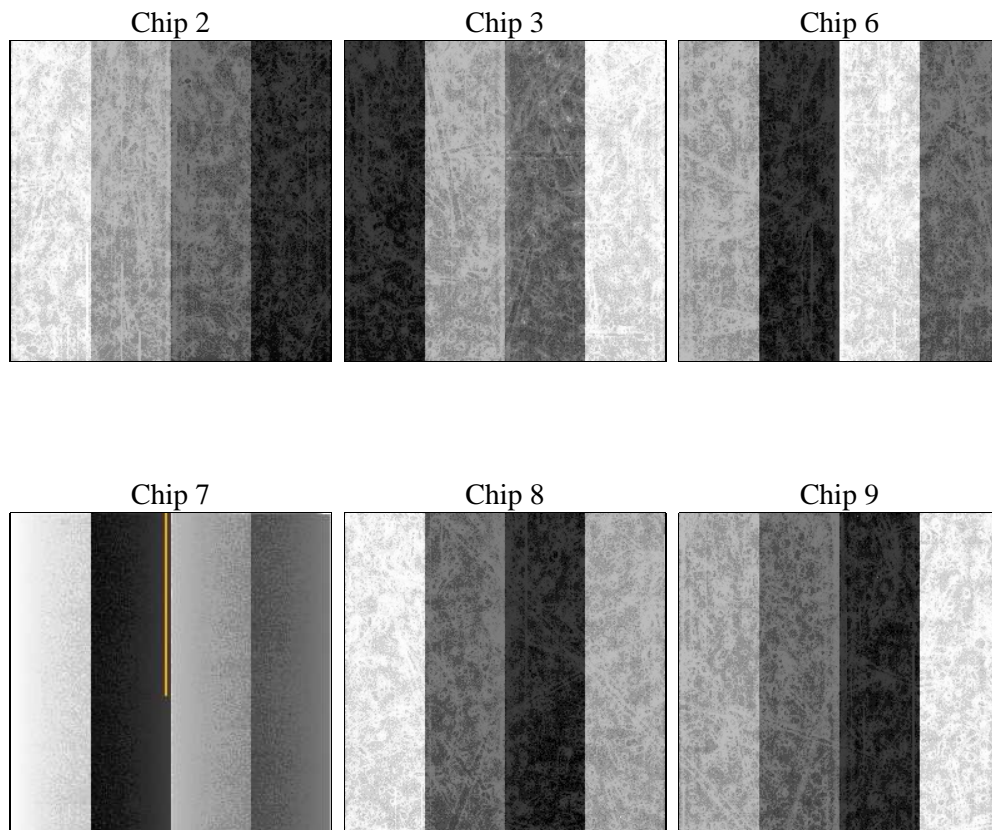
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13838.169000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13878.385900497	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	13878.221740484	Sum of GTIs [s]
date	2012-06-07T00:06:10	Date and time of file creation	ontime3	13878.303820491	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	13878.344860494	Sum of GTIs [s]
			ontime7	13878.385900497	Sum of GTIs [s]
			ontime8	13878.262780488	Sum of GTIs [s]
			ontime9	13878.399948359	Sum of GTIs [s]
			l1events	786629	Number of level 1 events

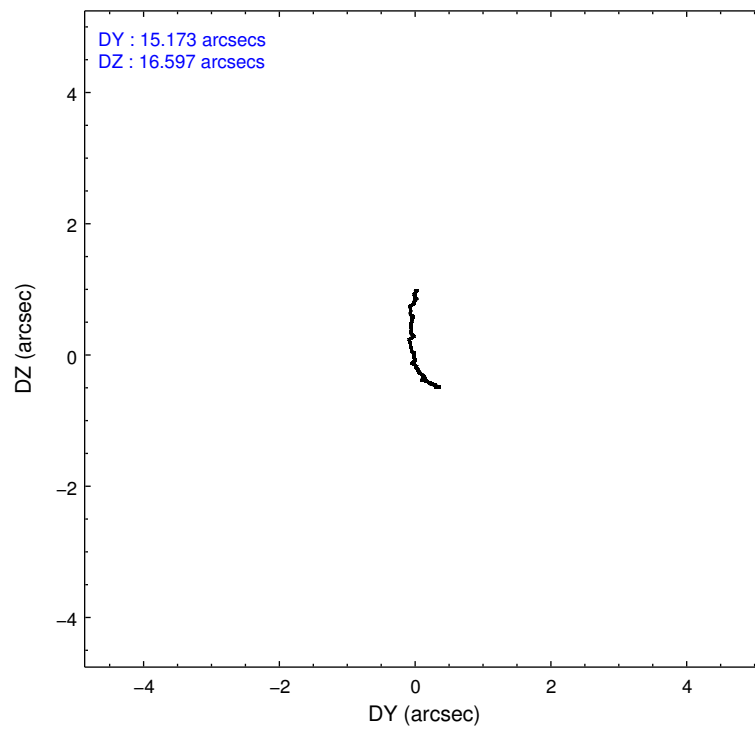
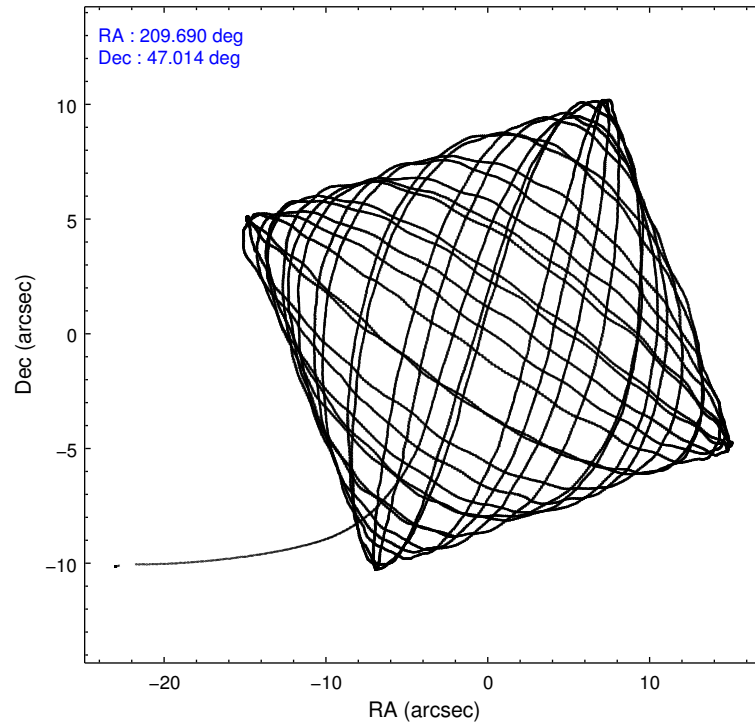
2.1.4 Events

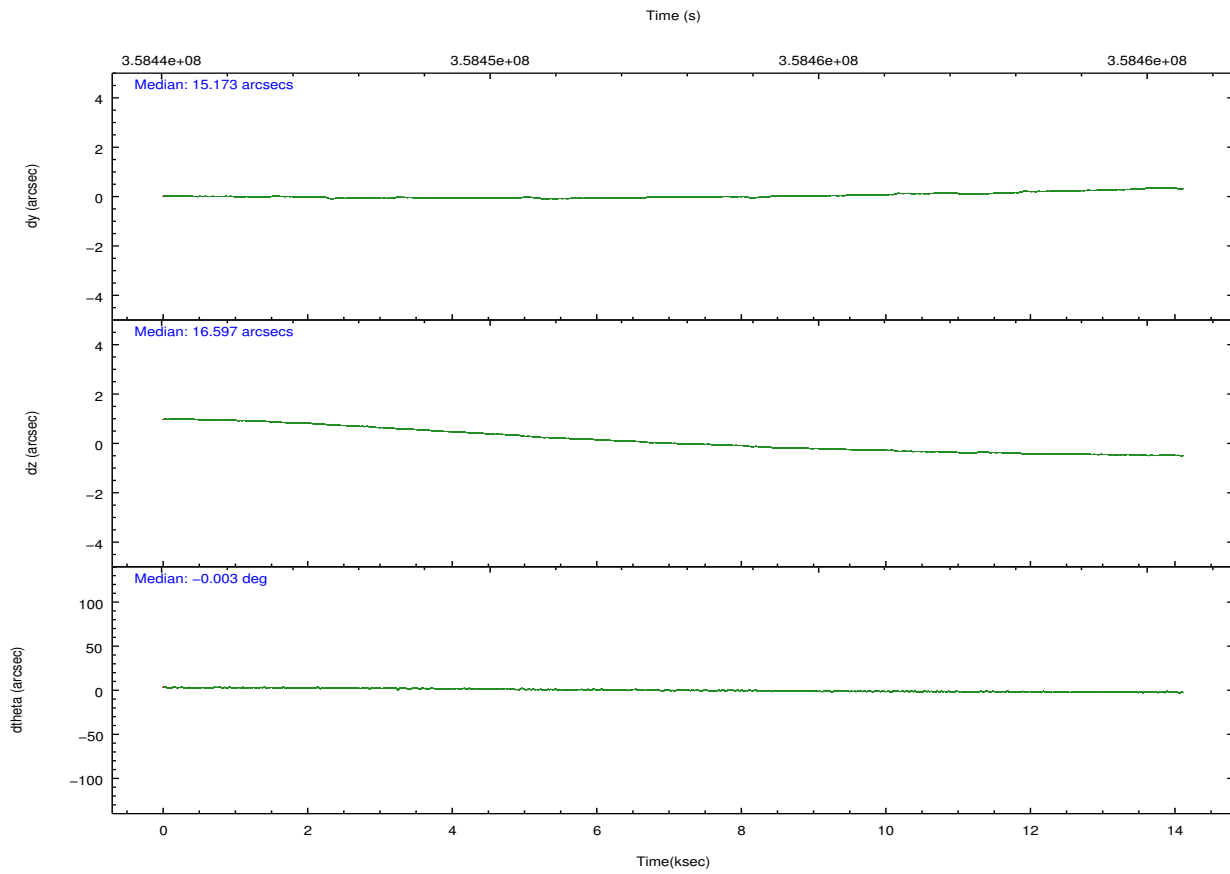
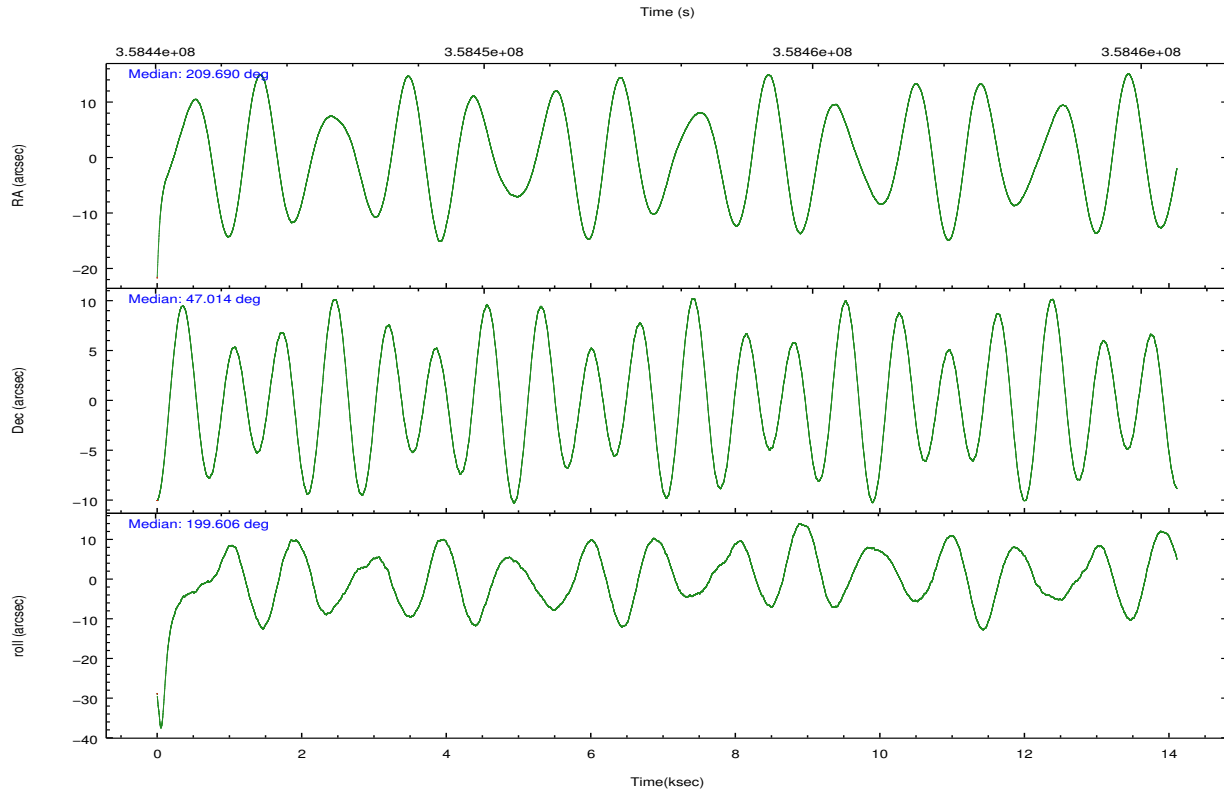
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	125953	119744	122465	138419	154203	125845	grade 0 events	4161	4023	4456	5969	11775	5091
rejected events	113971	108306	109723	75102	115052	112110		3%	3%	3%	4%	7%	4%
rejected %	90%	90%	89%	54%	74%	89%	grade 1 events	70	78	47	181	148	94
								0%	0%	0%	0%	0%	0%
							grade 2 events	2962	2522	2823	13001	9208	2989
								2%	2%	2%	9%	5%	2%
							grade 3 events	1302	1312	1323	5758	4144	1447
								1%	1%	1%	4%	2%	1%
							grade 4 events	1325	1324	1381	5731	3789	1391
								1%	1%	1%	4%	2%	1%
							grade 5 events	4015	5084	5074	14668	7228	5758
								3%	4%	4%	10%	4%	4%
							grade 6 events	2236	2265	2764	32880	10242	2821
								1%	1%	2%	23%	6%	2%
							grade 7 events	109882	103136	104597	60231	107669	106254
								87%	86%	85%	43%	69%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-236789	ACIS-236789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	209.715380	209.6897725548134	CCD I2 on	O3	Y
[deg] Pointing Dec	47.035444	47.01438106873116	CCD I3 on	O2	Y
[deg] Pointing Roll	199.431944	199.6072745998223	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	358446000.184000	358444951.28327	CCD S5 on	O1	Y
Observation start date	2009-05-11T16:18:54	2009-05-11T16:02:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	358459838.184000	358460064.39653	On-chip summing requested	N	N
Observation end date	2009-05-11T20:09:32	2009-05-11T20:14:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



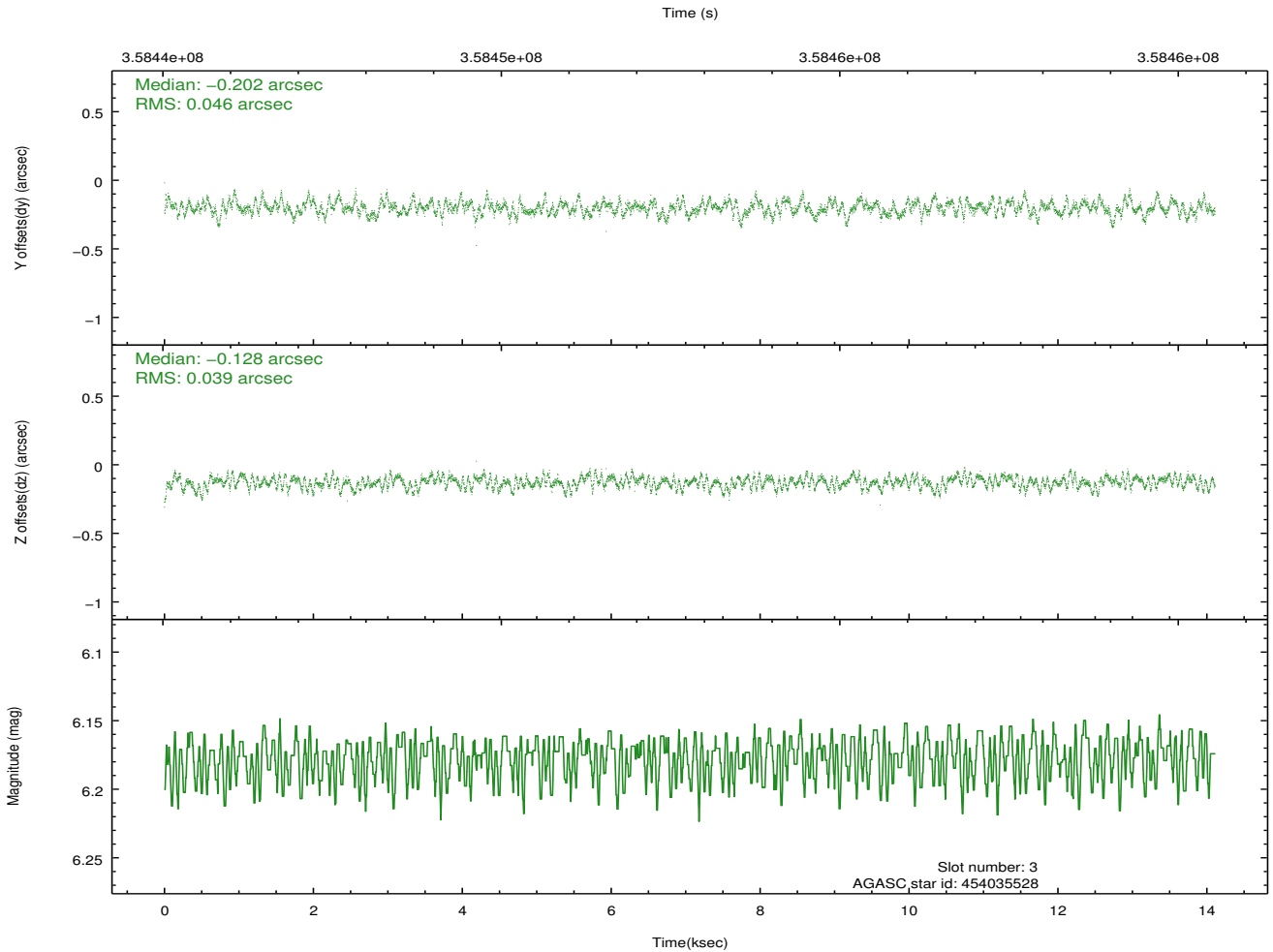
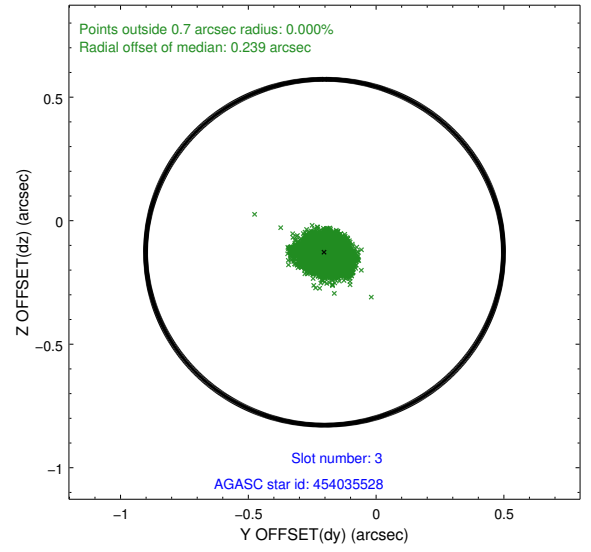
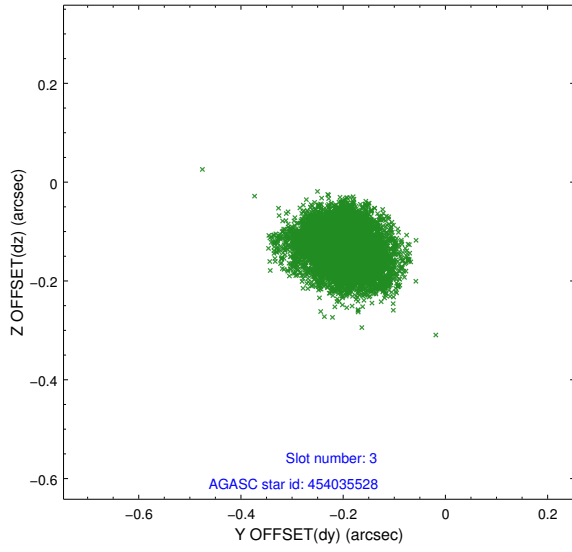


Slot Statistics

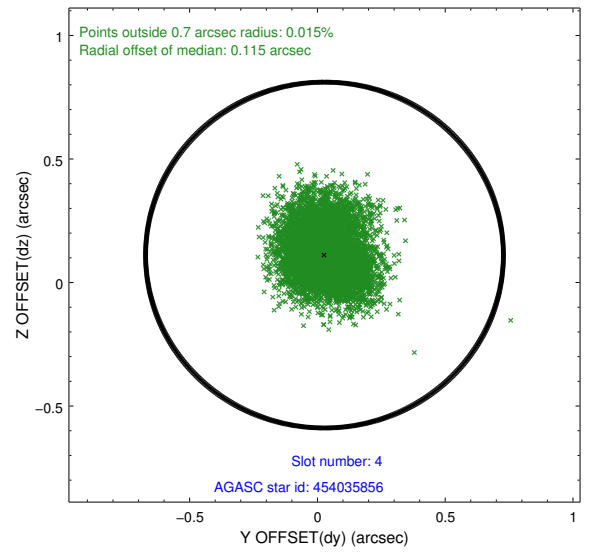
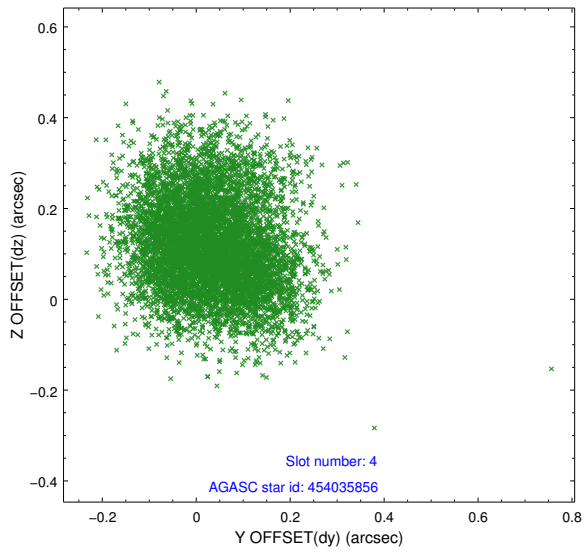
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	3442	-0.075	-0.020	0.016	0.024	0.000000	0.000000	-768.29	-1738.10
1	FID	ACIS-S-4	6.98	3442	0.173	0.042	0.007	0.013	0.000000	0.000000	2145.11	170.06
2	FID	ACIS-S-5	7.01	3442	-0.130	-0.013	0.017	0.024	0.000000	0.000000	-1820.74	164.11
3	GUIDE	454035528	6.18	6884	-0.202	-0.128	0.064	0.105	209.690409	46.596241	584.34	1470.60
4	GUIDE	454035856	9.76	6873	0.028	0.111	0.145	0.237	209.991646	47.261658	-907.28	-544.00
5	GUIDE	454036472	10.26	6846	0.106	-0.016	0.209	0.323	208.862921	47.107269	1880.34	-949.55
6	GUIDE	454038288	8.70	6879	0.042	-0.034	0.073	0.118	209.147045	46.392863	2099.34	1707.46
7	GUIDE	454164696	9.93	6864	0.031	0.062	0.183	0.291	210.087394	47.402180	-1294.03	-944.88

2.4 Star Slots

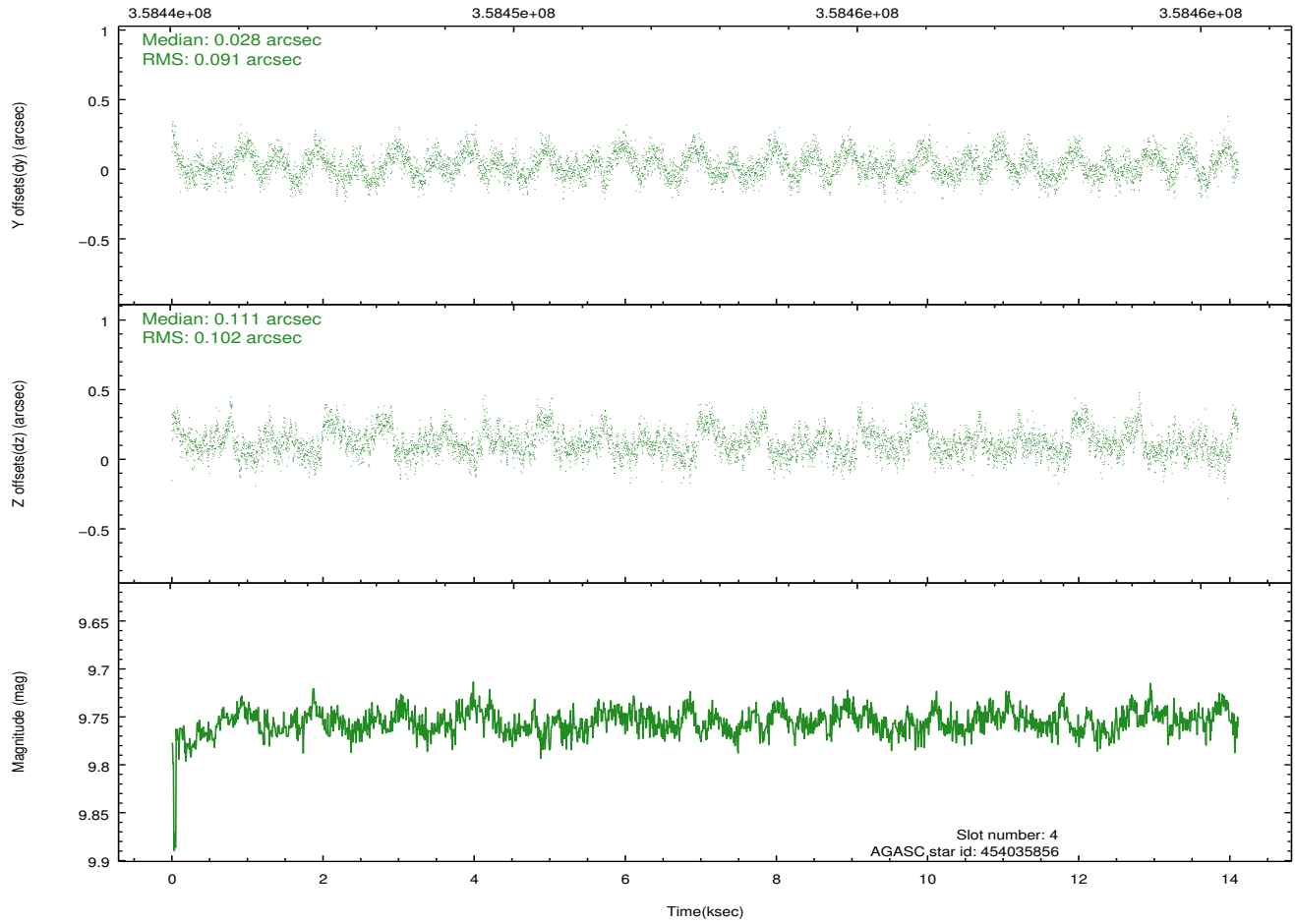
2.4.1 Slot 3



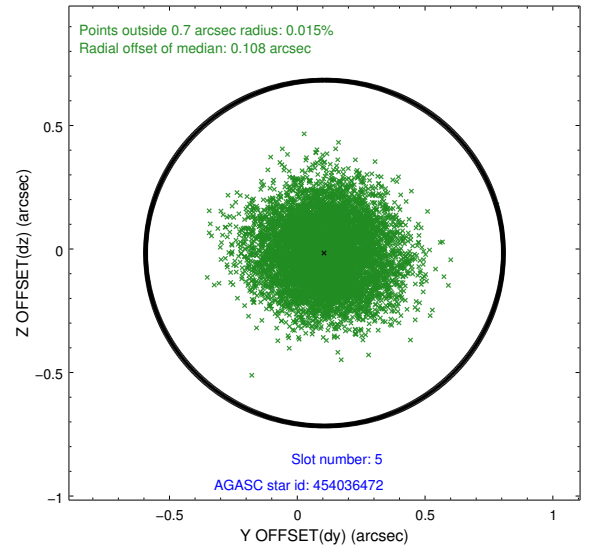
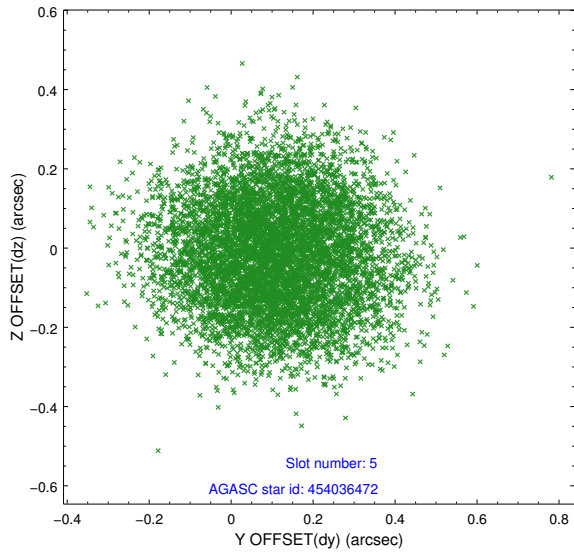
2.4.2 Slot 4



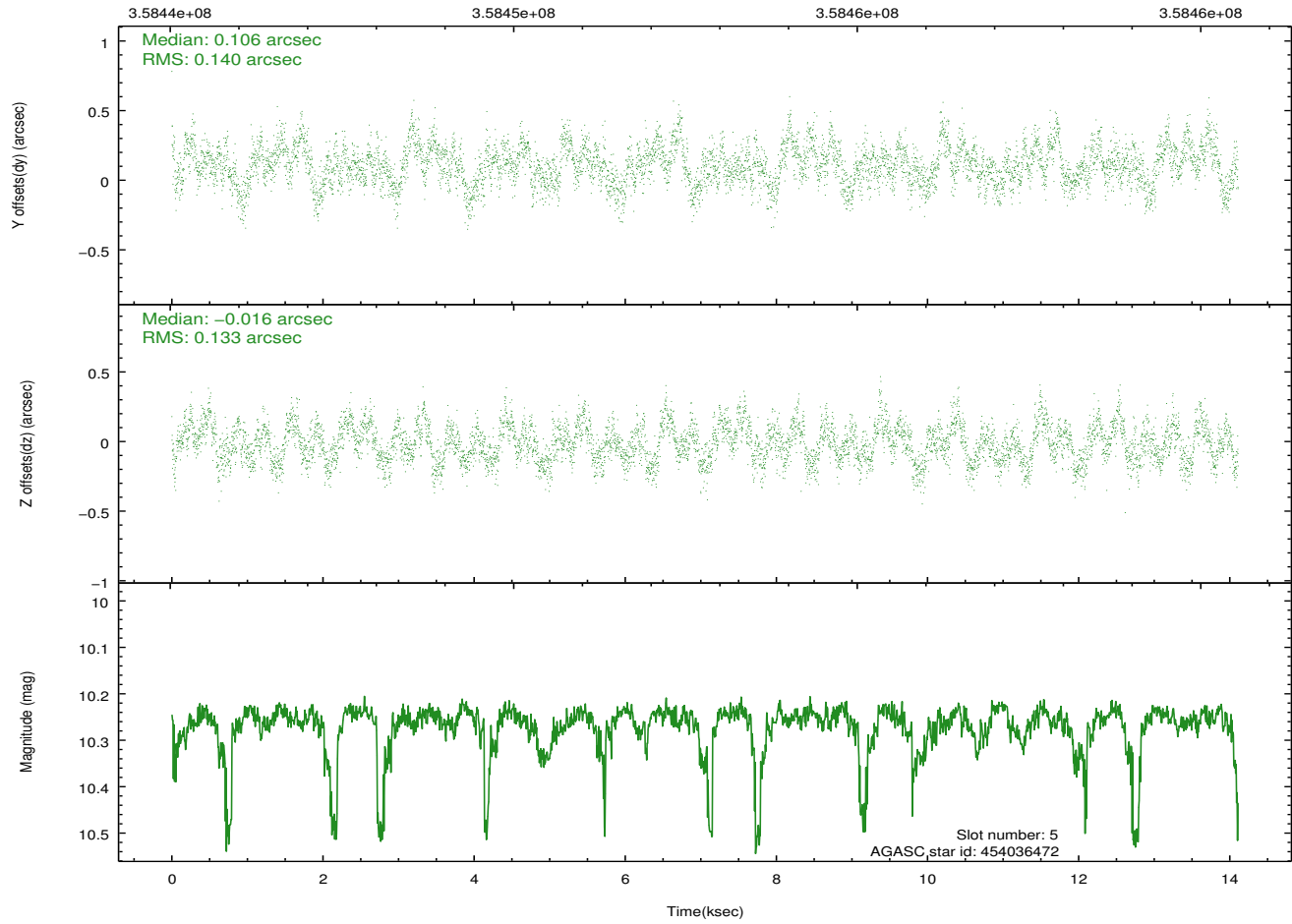
Time (s)



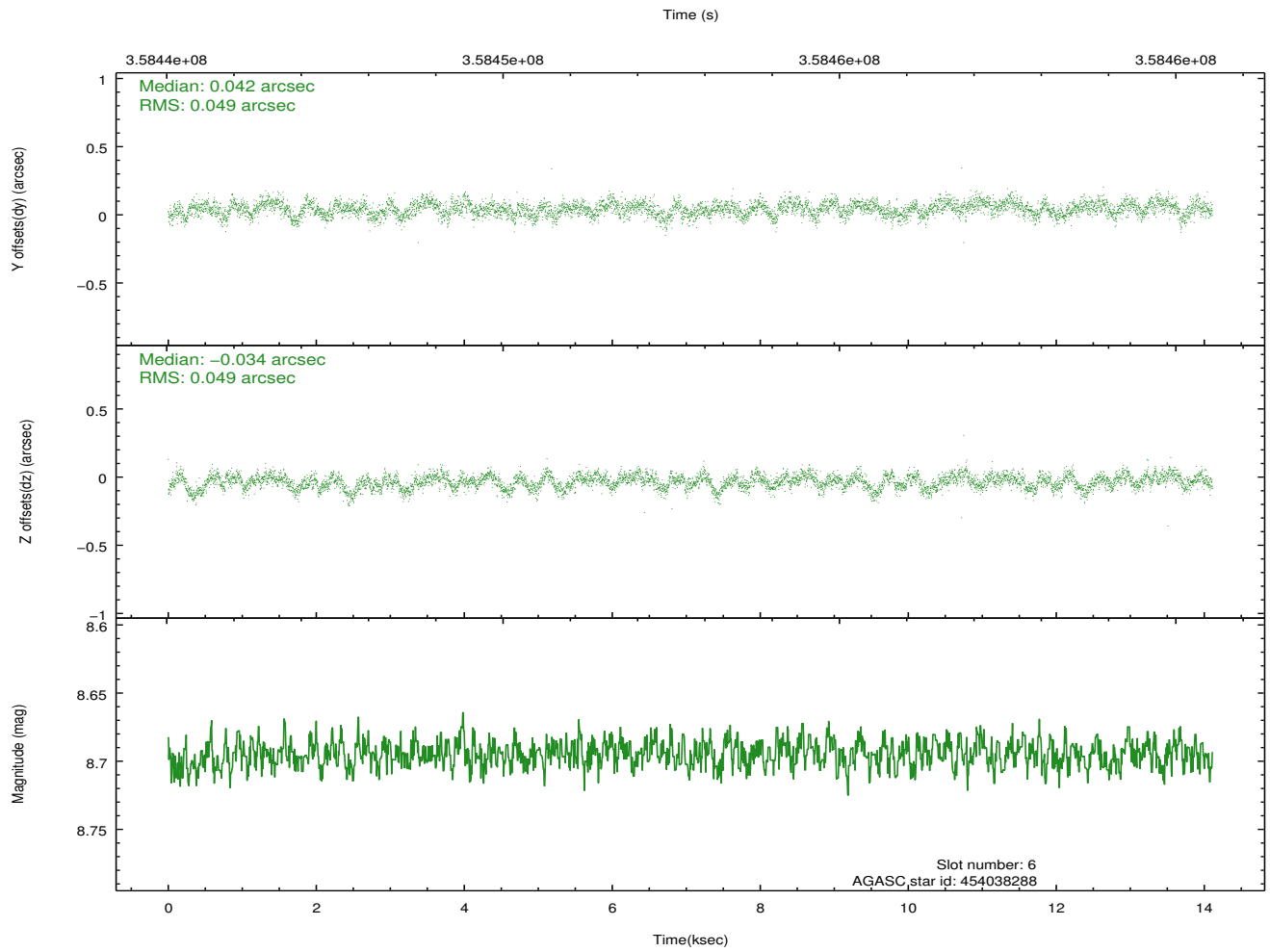
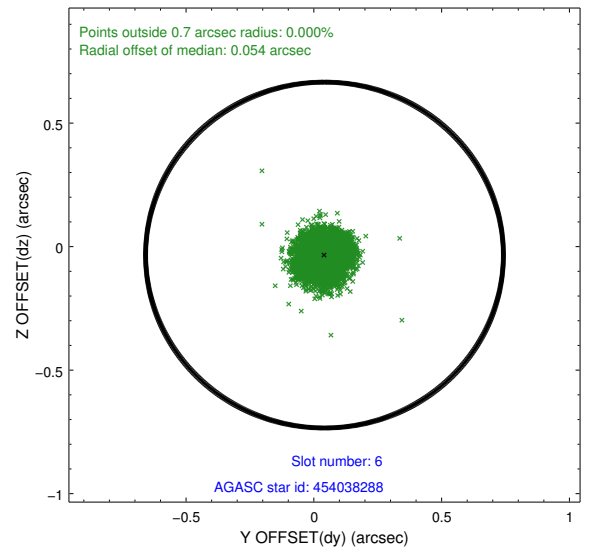
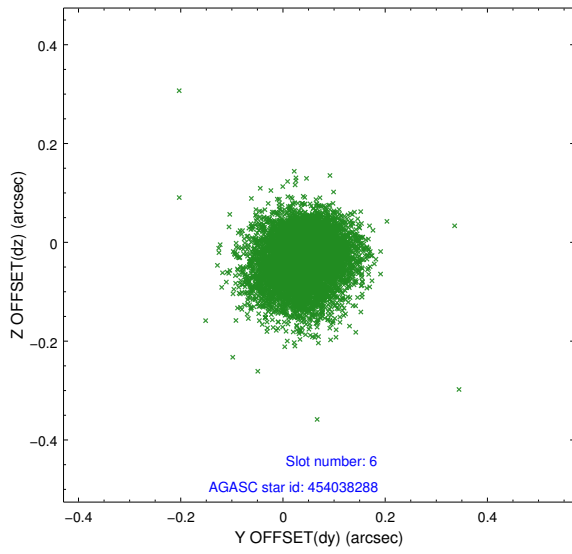
2.4.3 Slot 5



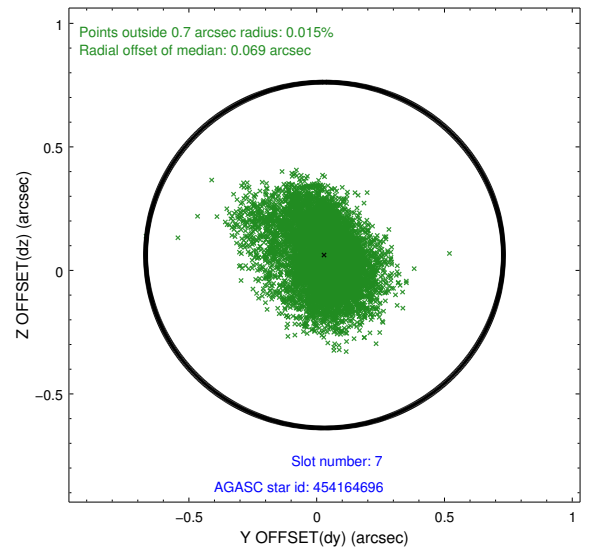
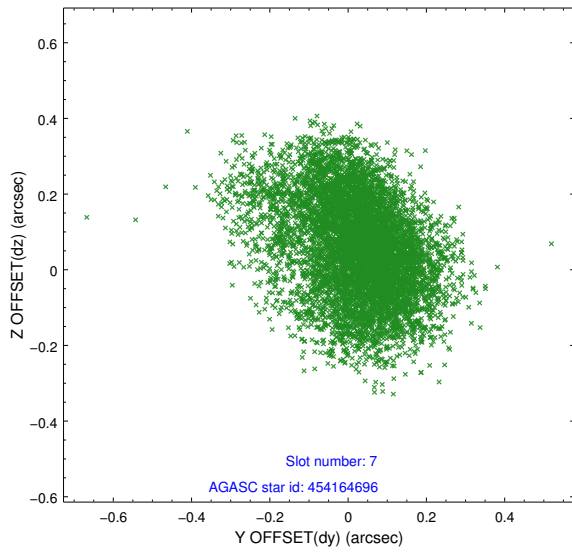
Time (s)



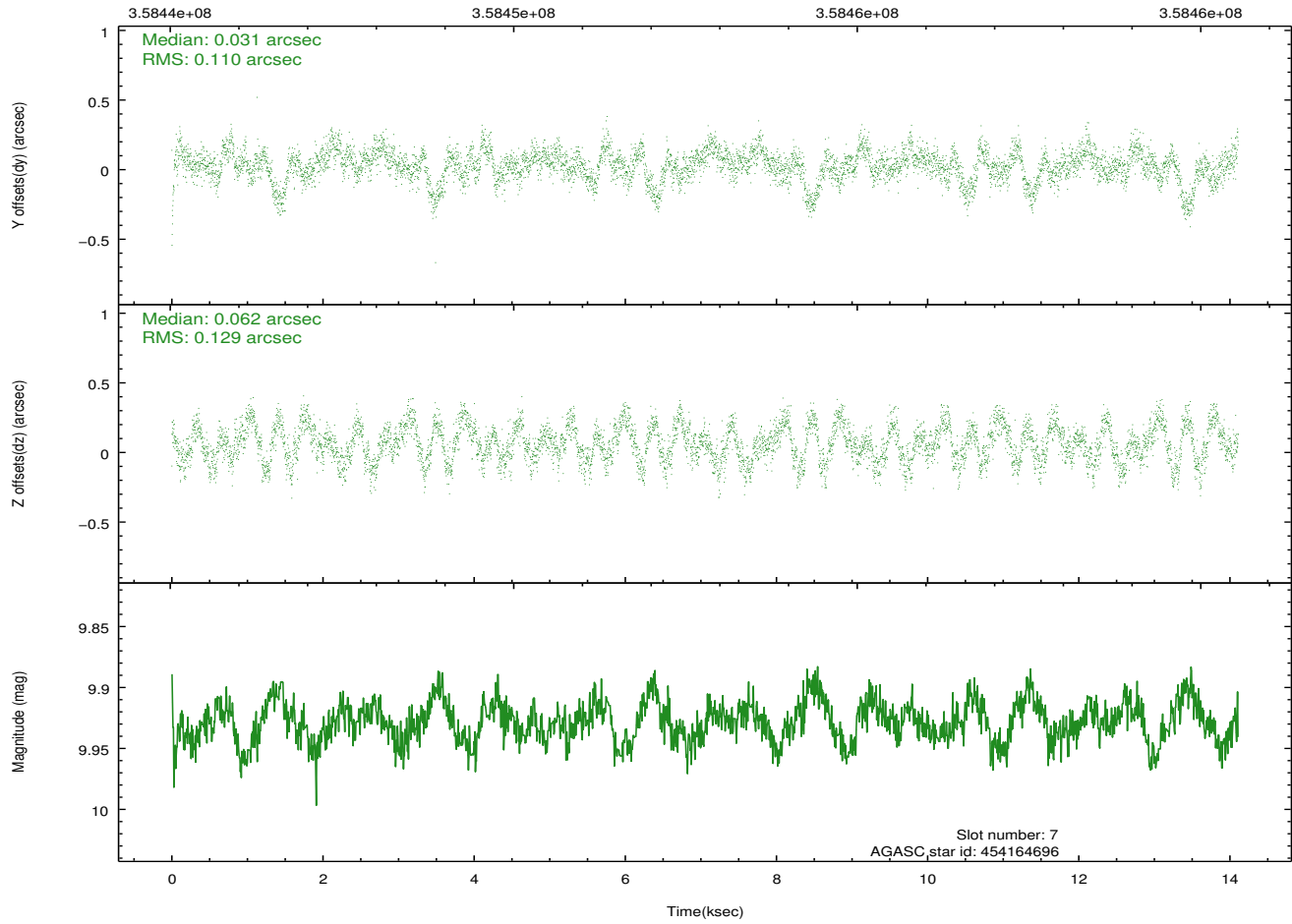
2.4.4 Slot 6



2.4.5 Slot 7

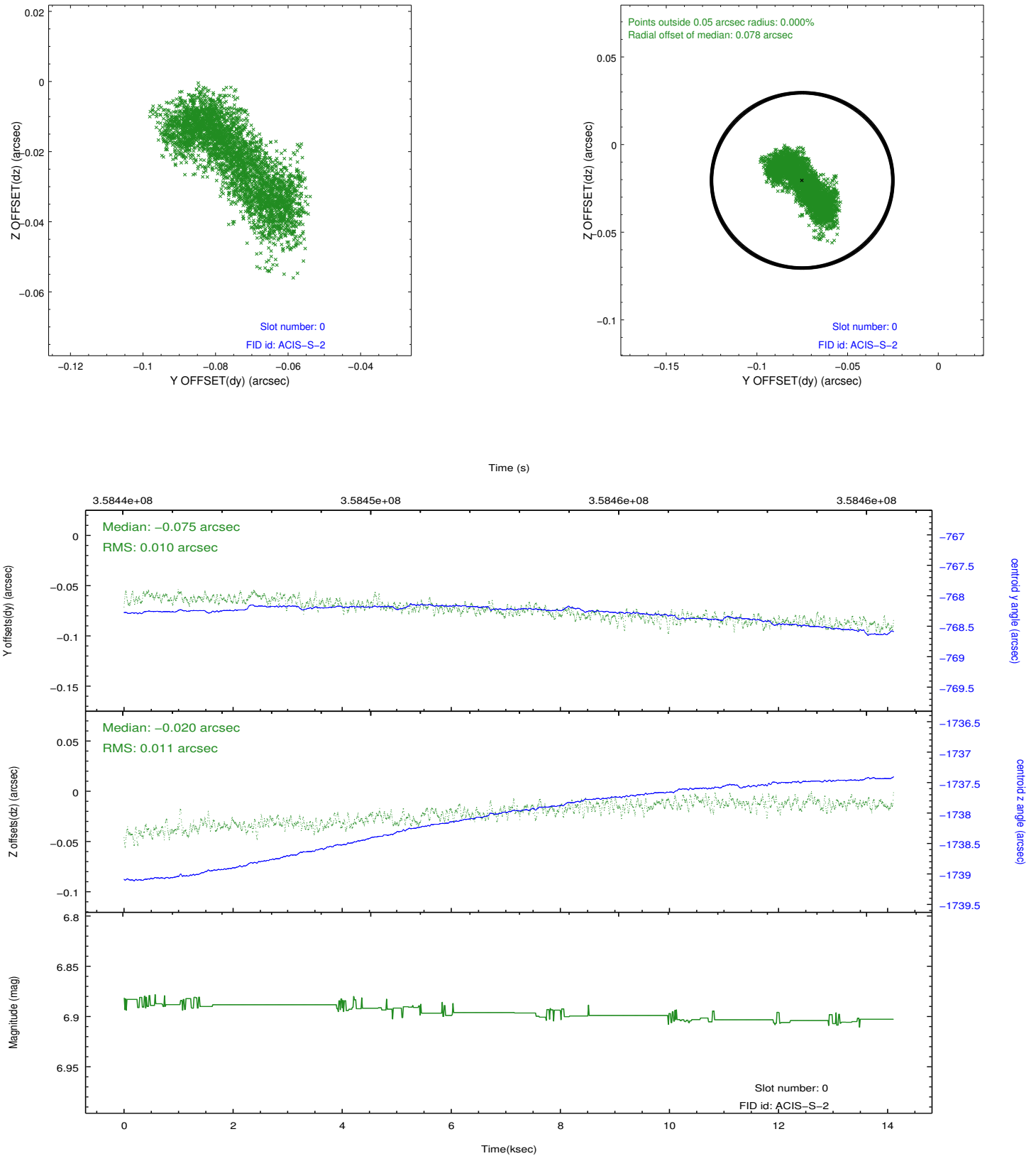


Time (s)

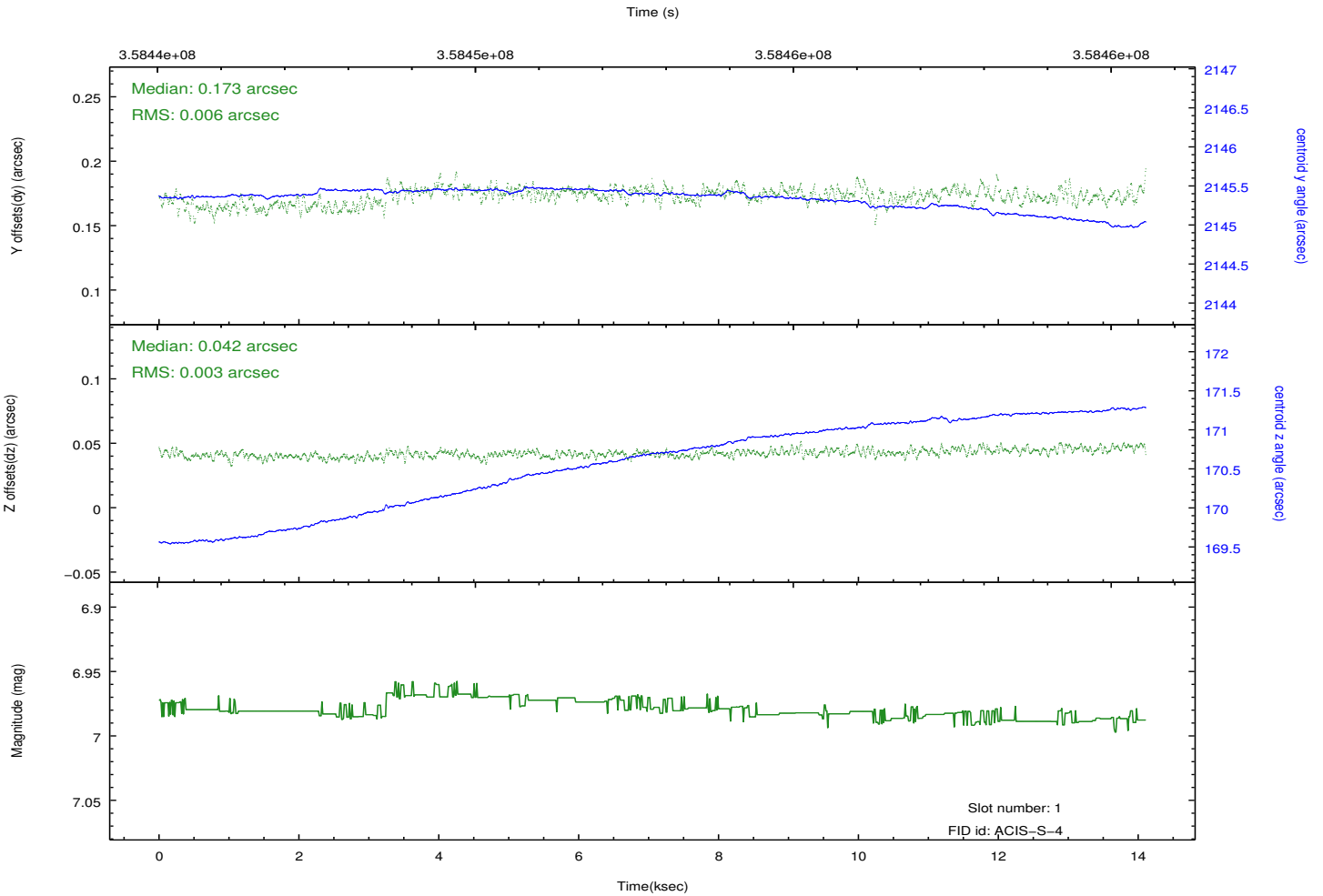
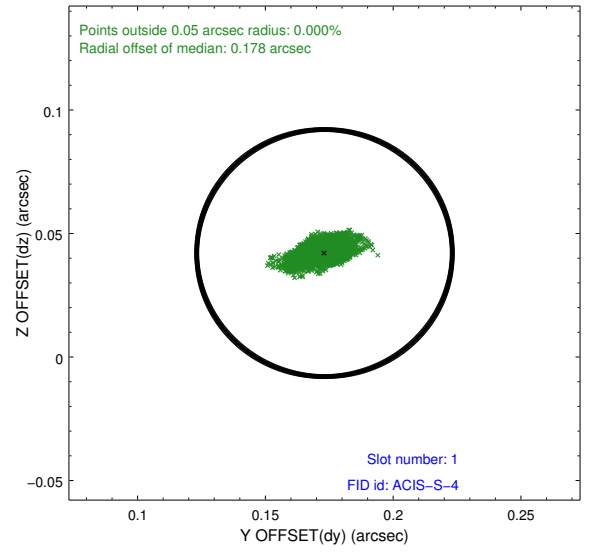
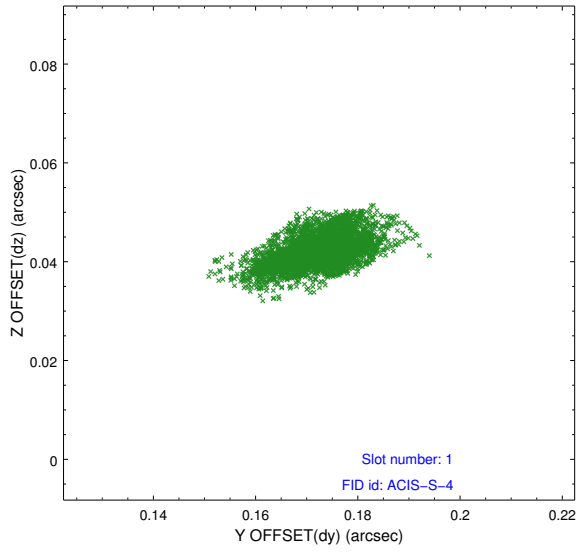


2.5 FID Slots

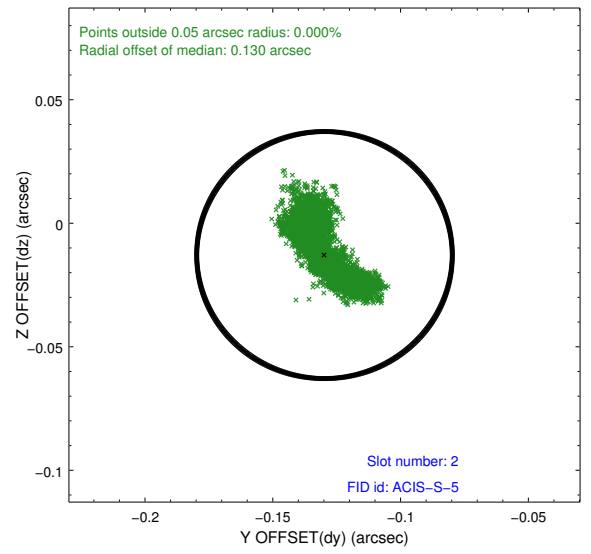
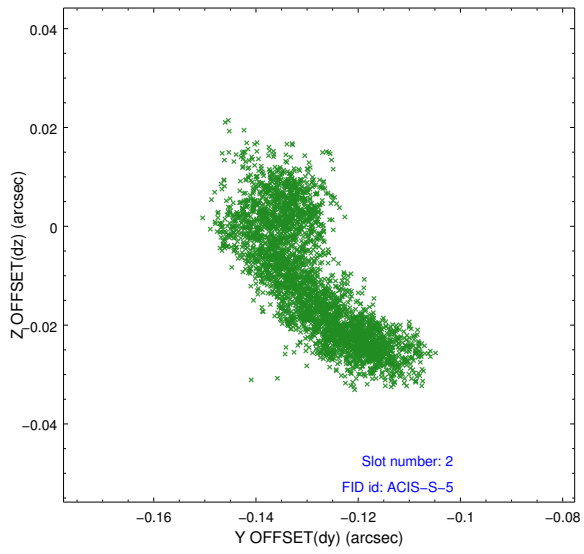
2.5.1 Slot 0



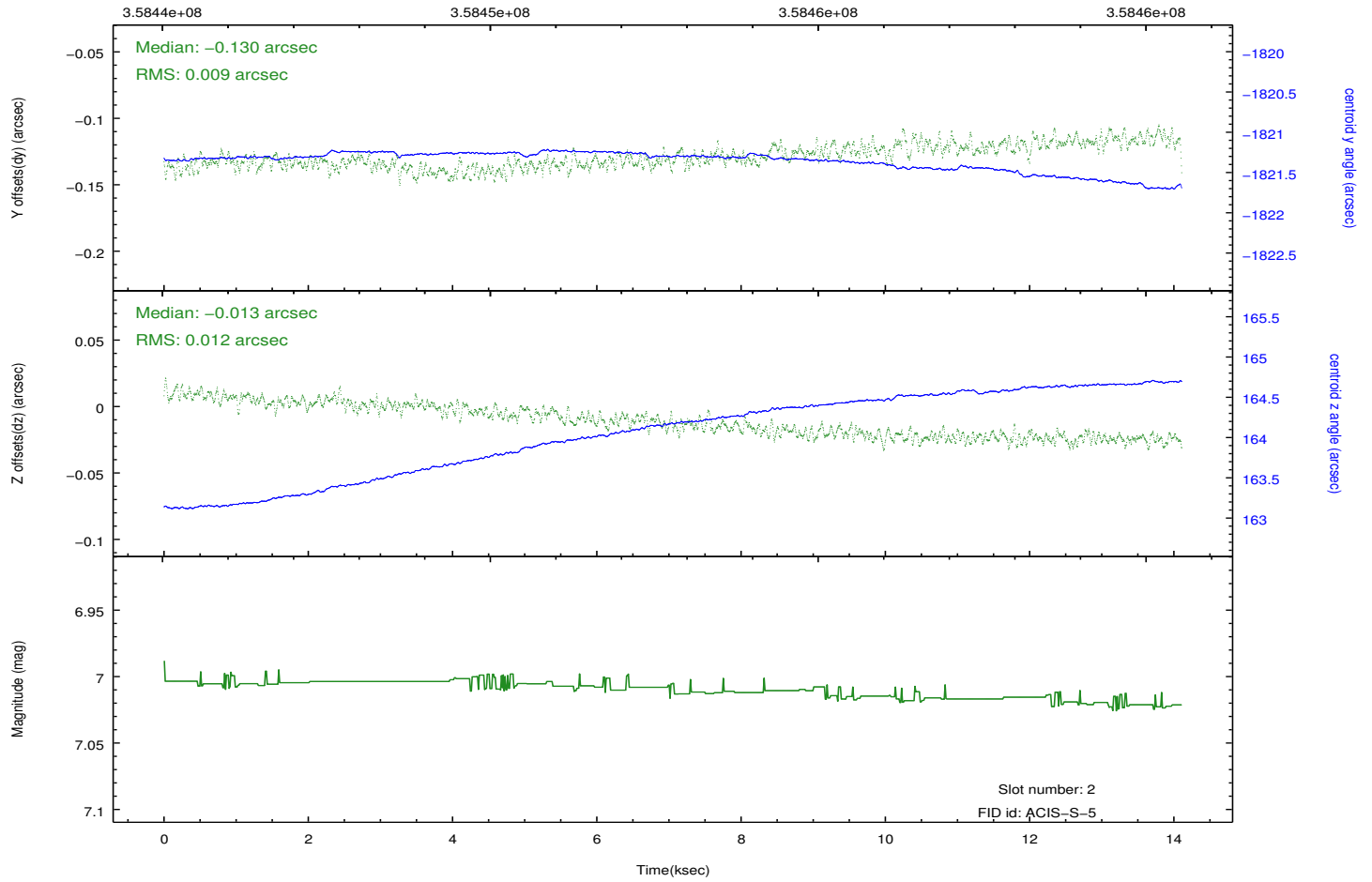
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.8783999

A.2 Comments

Joint proposal with HST.