

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9752 - L2 Version 2
Chandra X-Ray Center

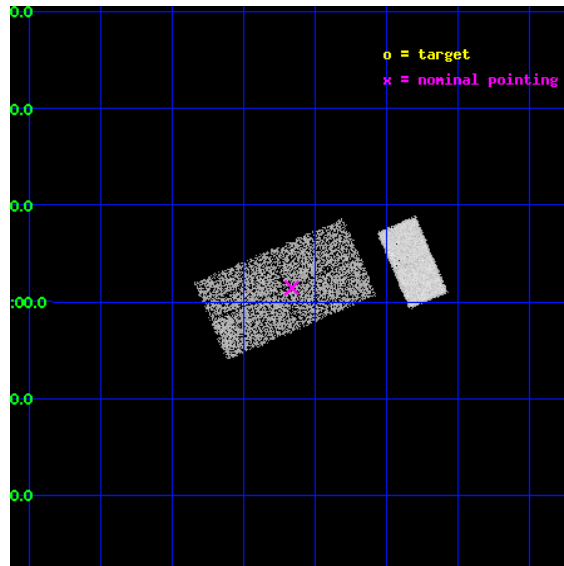
L2 Processing Date : May 3 2012

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1 Front

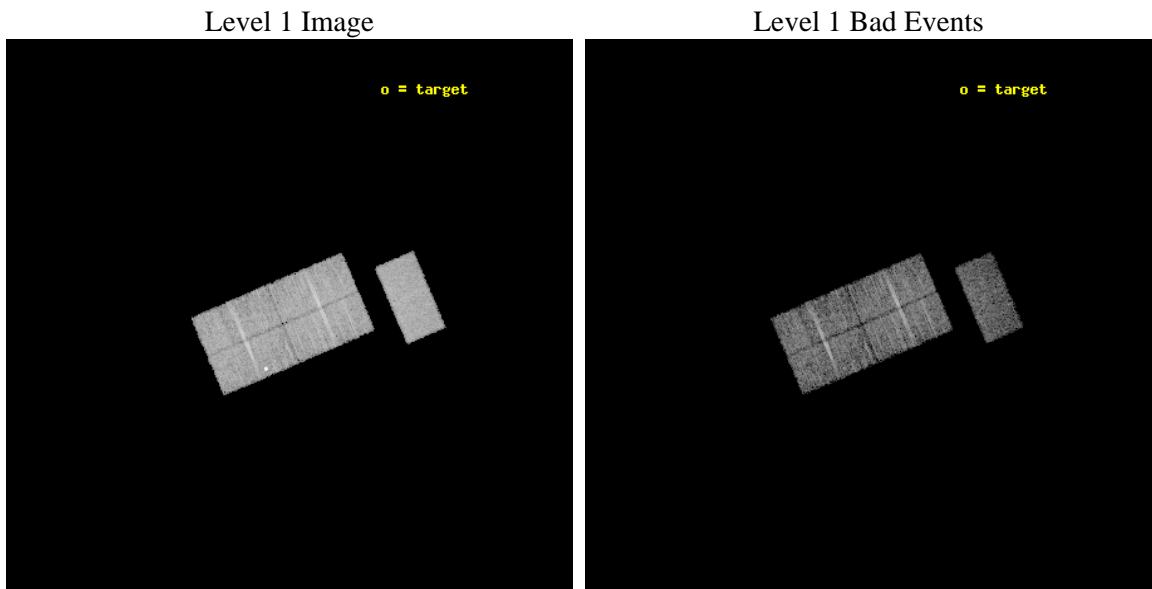
seq_num	100069	Sequence number
obs_id	9752	Observation id
title	Solar wind charge exchange induced X-rays at Venus during the Messenger flyby	Proposal title
observer	Dr. Konrad Dennerl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.733292	Observer's specified target RA [deg]
dec_targ	4.922889	Observer's specified target Dec [deg]
ra_nom	171.29061420412	Nominal RA [deg]
dec_nom	4.0241093316477	Nominal Dec [deg]
roll_nom	66.784445338828	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6885.0000455379	Sum of GTIs [s]
livetime	6731.5213585627	Livetime [s]
ontime0	6883.1590653658	Sum of GTIs [s]
ontime1	6885.0000455379	Sum of GTIs [s]
ontime2	6885.0000455379	Sum of GTIs [s]
ontime3	6885.0000455379	Sum of GTIs [s]
ontime7	6885.0000455379	Sum of GTIs [s]
l2events	24295	Number of level 2 events



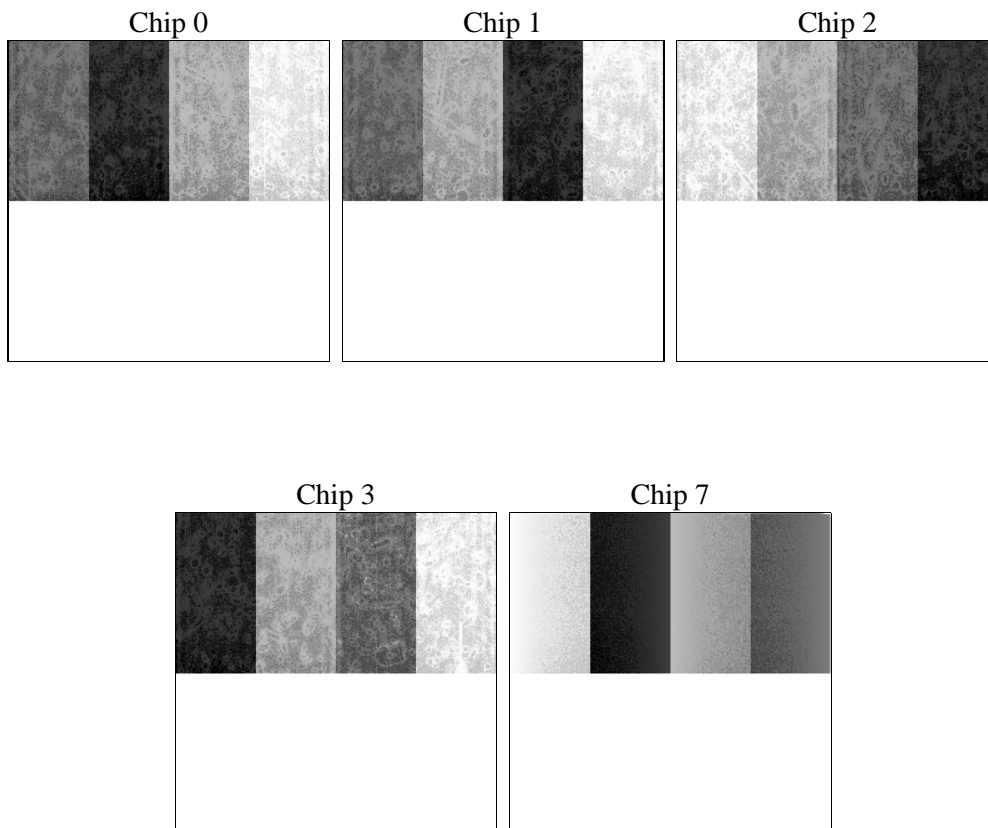
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	6885.0000455379	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	6883.1590653658	Sum of GTIs [s]
date	2012-05-03T15:09:27	Date and time of file creation	ontime1	6885.0000455379	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6885.0000455379	Sum of GTIs [s]
			ontime3	6885.0000455379	Sum of GTIs [s]
			ontime7	6885.0000455379	Sum of GTIs [s]
			l1events	164186	Number of level 1 events

2.1.4 Events

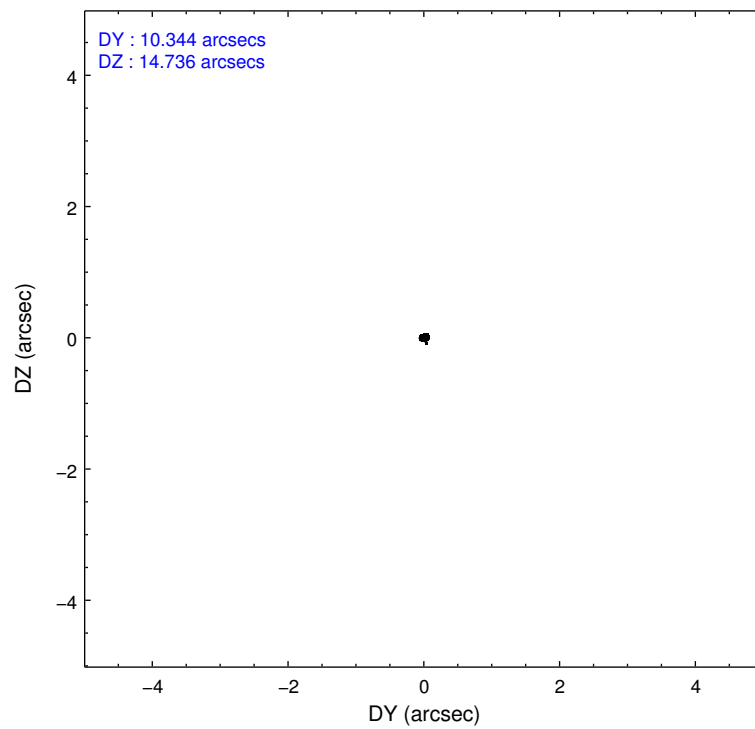
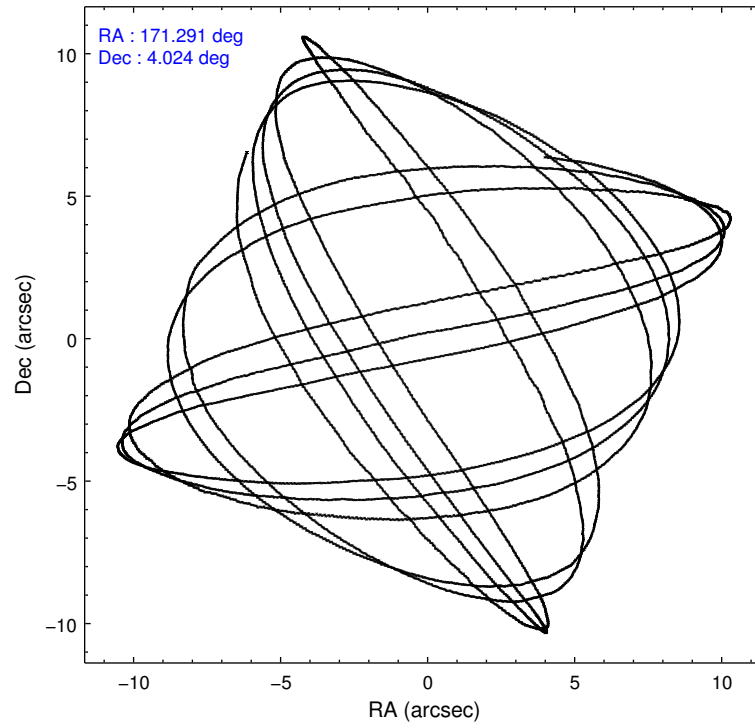
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	30568	31979	33730	33748	34161
rejected events	27515	27300	30776	30881	19160
rejected %	90%	85%	91%	91%	56%

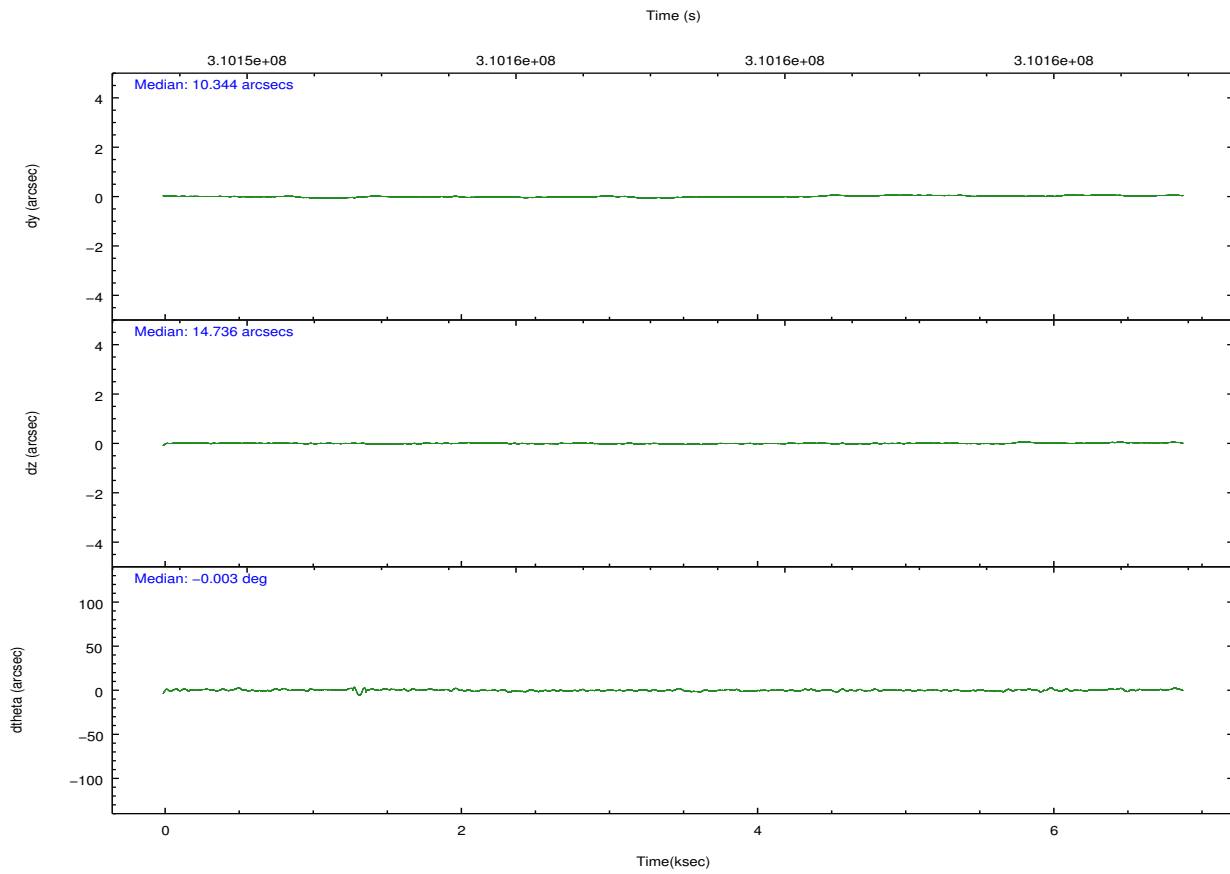
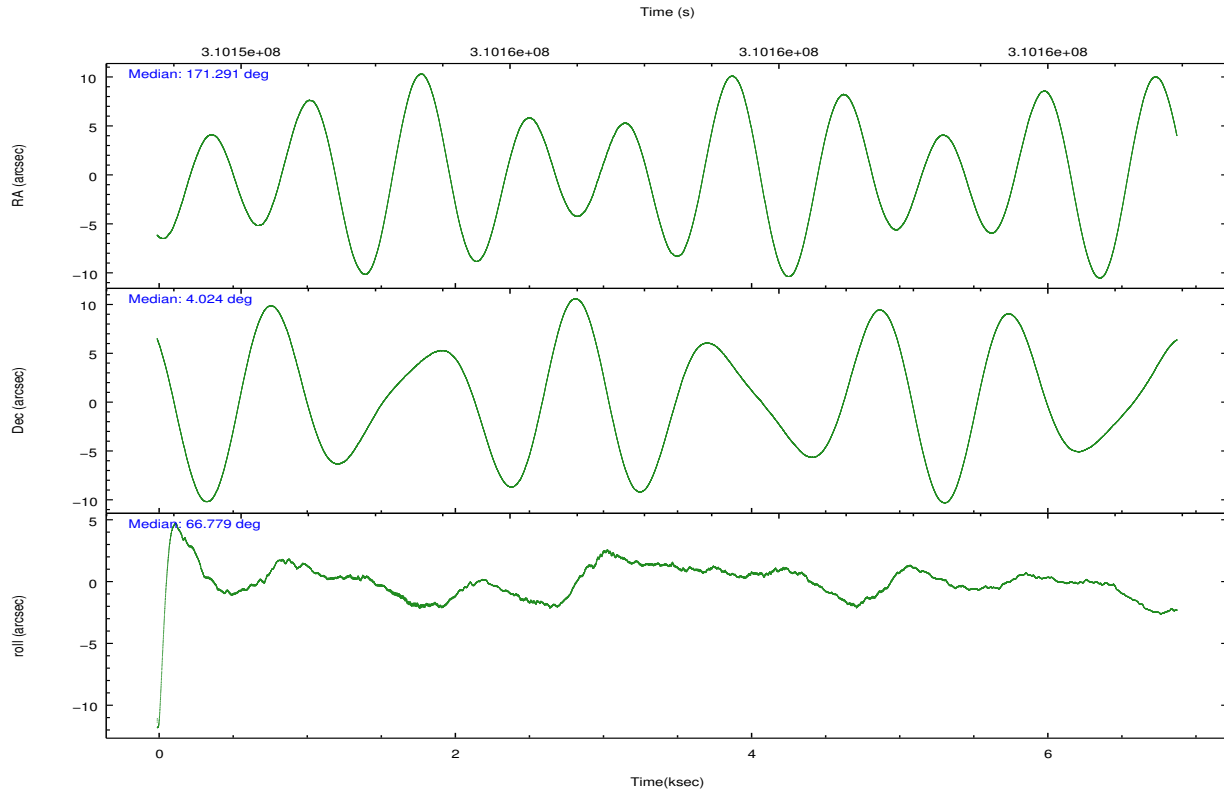
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1065	2724	1104	1023	1508
	3%	8%	3%	3%	4%
grade 1 events	21	19	31	20	53
	0%	0%	0%	0%	0%
grade 2 events	720	750	663	625	3316
	2%	2%	1%	1%	9%
grade 3 events	434	386	396	402	1611
	1%	1%	1%	1%	4%
grade 4 events	357	395	394	406	1535
	1%	1%	1%	1%	4%
grade 5 events	1082	1170	1031	1382	3778
	3%	3%	3%	4%	11%
grade 6 events	616	638	534	563	7752
	2%	1%	1%	1%	22%
grade 7 events	26273	25897	29577	29327	14608
	85%	80%	87%	86%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	171.293958	171.2906142041177	CCD I2 on	Y	Y
[deg] Pointing Dec	3.996856	4.024109331647663	CCD I3 on	Y	Y
[deg] Pointing Roll	66.575530	66.78444533882839	CCD S0 on	N	N
[s] Window start time (MET)	309398465.184000	309398465.184000	CCD S1 on	N	N
[s] Window stop time (MET)	310608065.184000	310608065.184000	CCD S2 on	O1	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	O2	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S5 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	Number of optional ACIS chips dropped	1	1
[s] Observation start time (MET)	310153899.184000	310153522.98044	On-chip summing requested	N	N
Observation start date	2007-10-30T17:50:34	2007-10-30T17:45:22	Subarray requested	CUSTOM	1/2
[s] Observation end time (MET)	310160599.184000	310160733.34329	Subarray start row	513	513
Observation end date	2007-10-30T19:42:14	2007-10-30T19:45:33	Subarray row count	512	512
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.8

2.3 Aspect



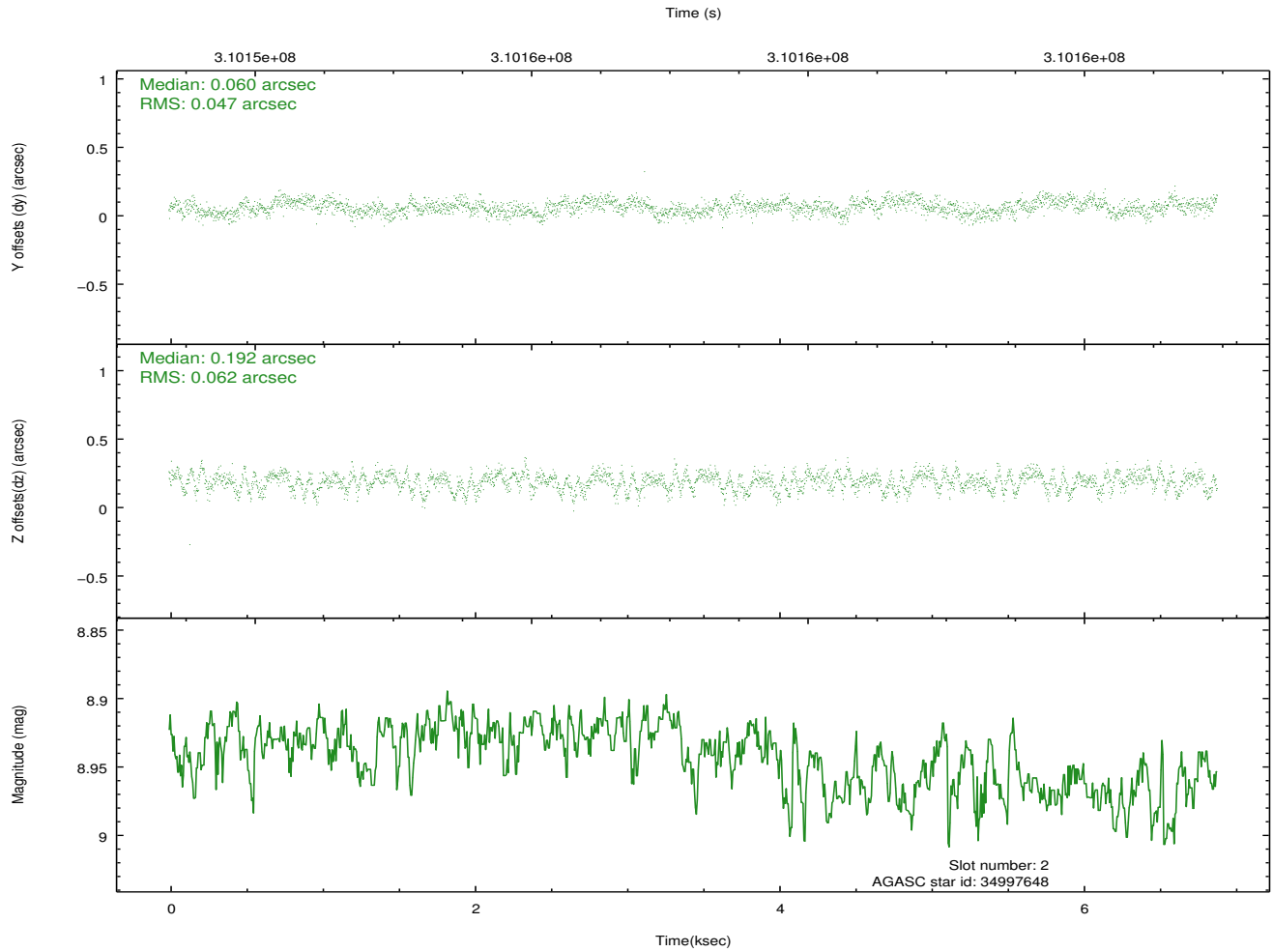
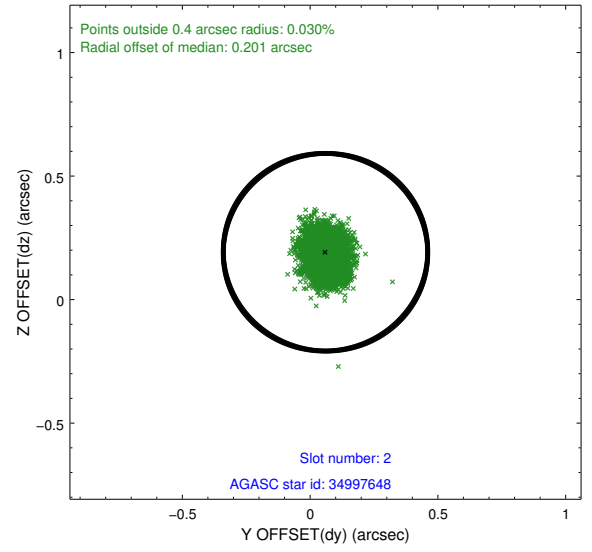
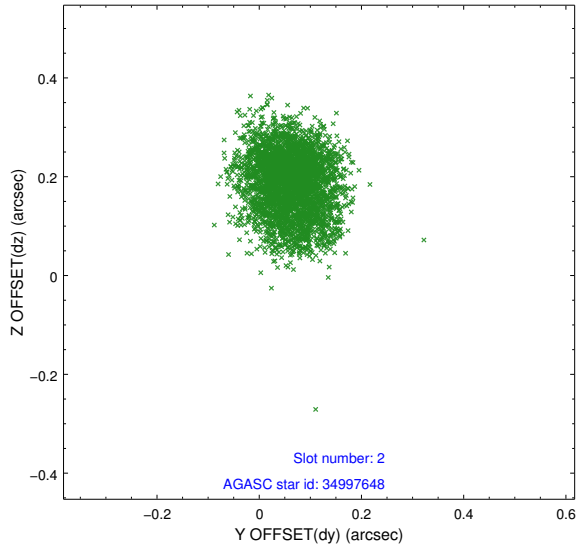


Slot Statistics

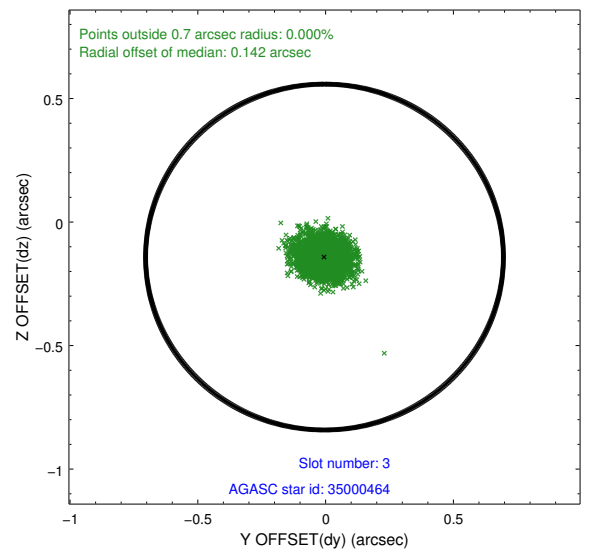
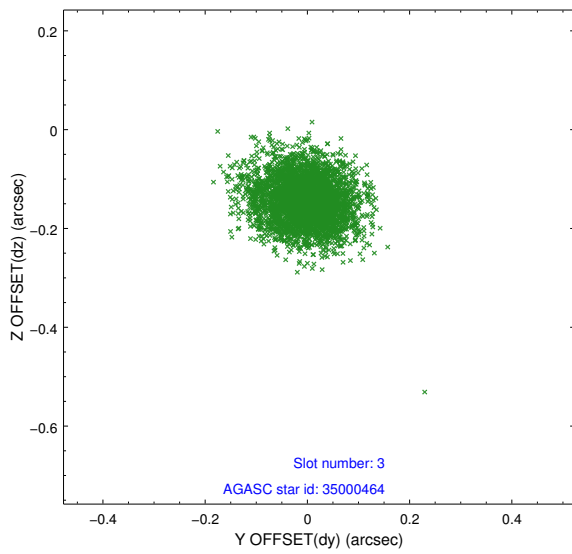
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1679	0.005	-0.044	0.008	0.016	0.000000	0.000000	-764.92	-844.75
1	FID	ACIS-I-5	7.23	1680	-0.069	0.093	0.008	0.016	0.000000	0.000000	-1819.49	1058.80
2	GUIDE	34997648	8.94	3359	0.060	0.192	0.084	0.133	171.624680	3.491643	-1195.72	-1812.61
3	GUIDE	35000464	8.77	3356	-0.004	-0.142	0.074	0.121	170.965623	3.618933	-1718.46	541.79
4	GUIDE	35002728	8.22	3360	-0.119	-0.267	0.074	0.117	170.760736	4.138149	-294.48	1960.49
5	GUIDE	35002848	9.93	3358	0.117	0.222	0.117	0.190	171.207329	3.477909	-1837.62	-455.99
6	GUIDE	35005552	7.08	3360	0.001	0.030	0.056	0.096	171.414379	3.301138	-2126.65	-1392.61
7	GUIDE	35005744	6.63	3358	-0.060	-0.023	0.102	0.156	171.458567	3.860108	-217.45	-737.75

2.4 Star Slots

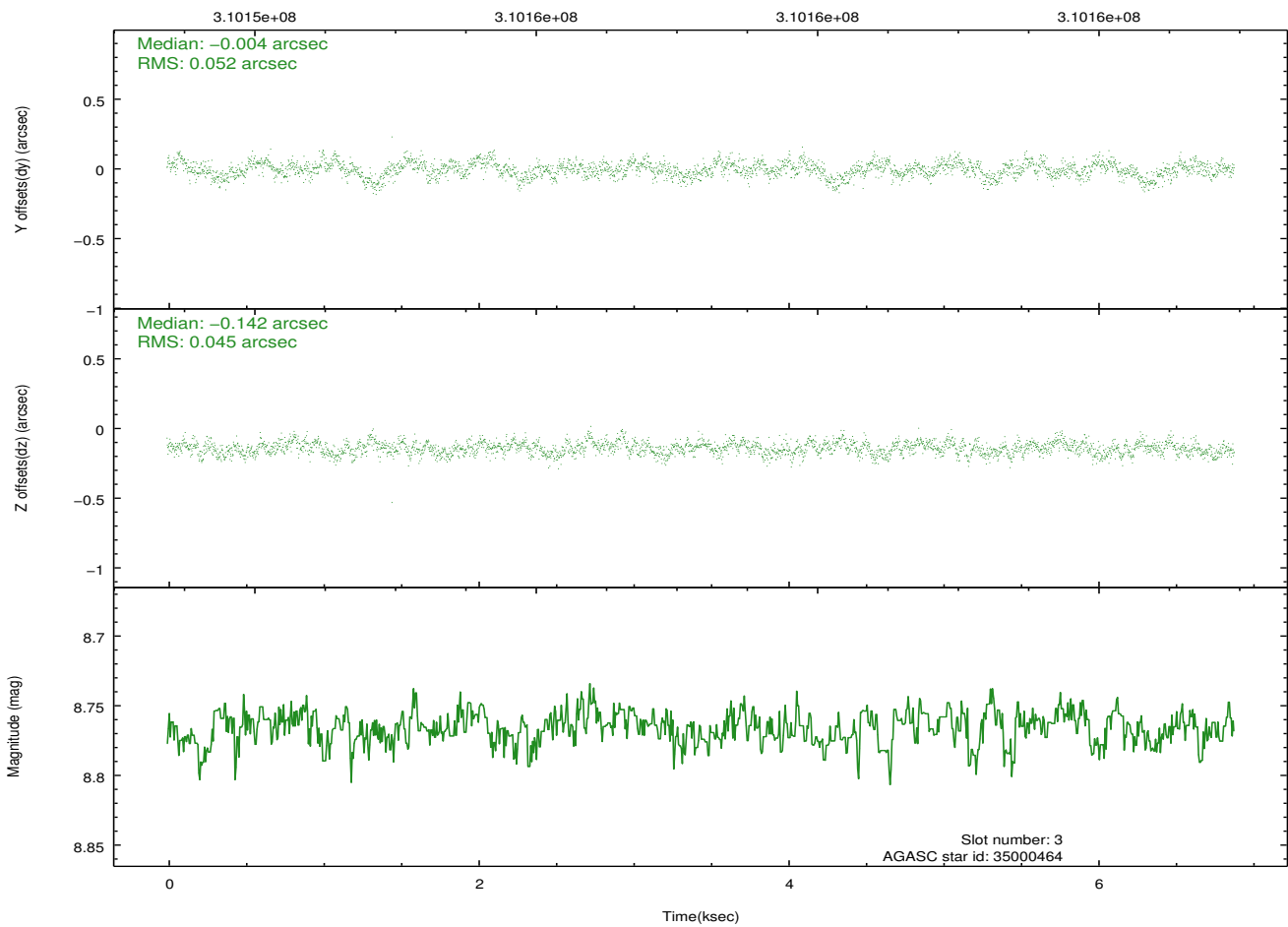
2.4.1 Slot 2



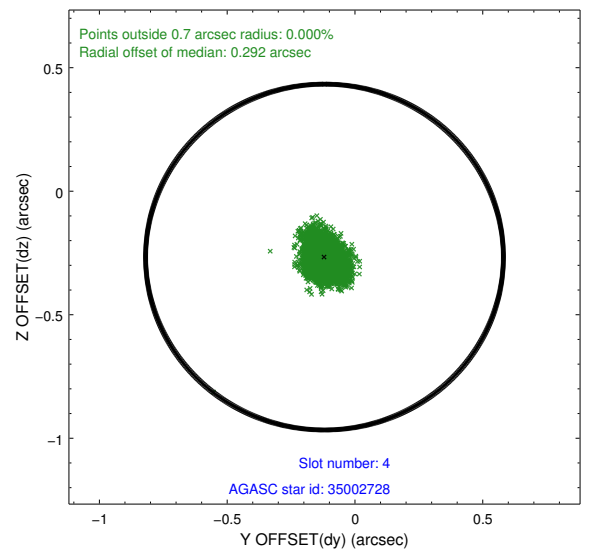
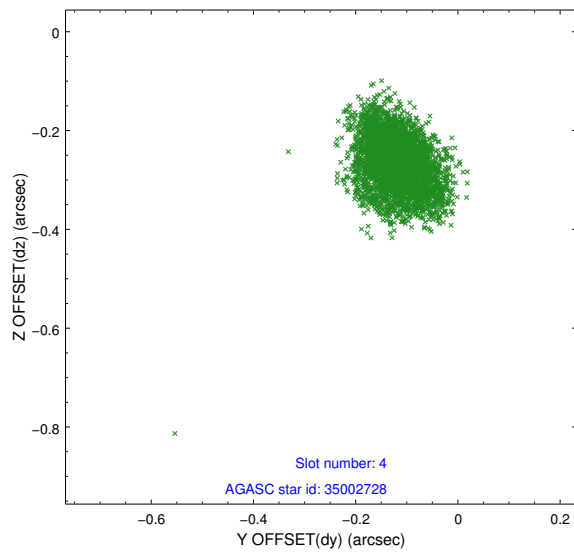
2.4.2 Slot 3



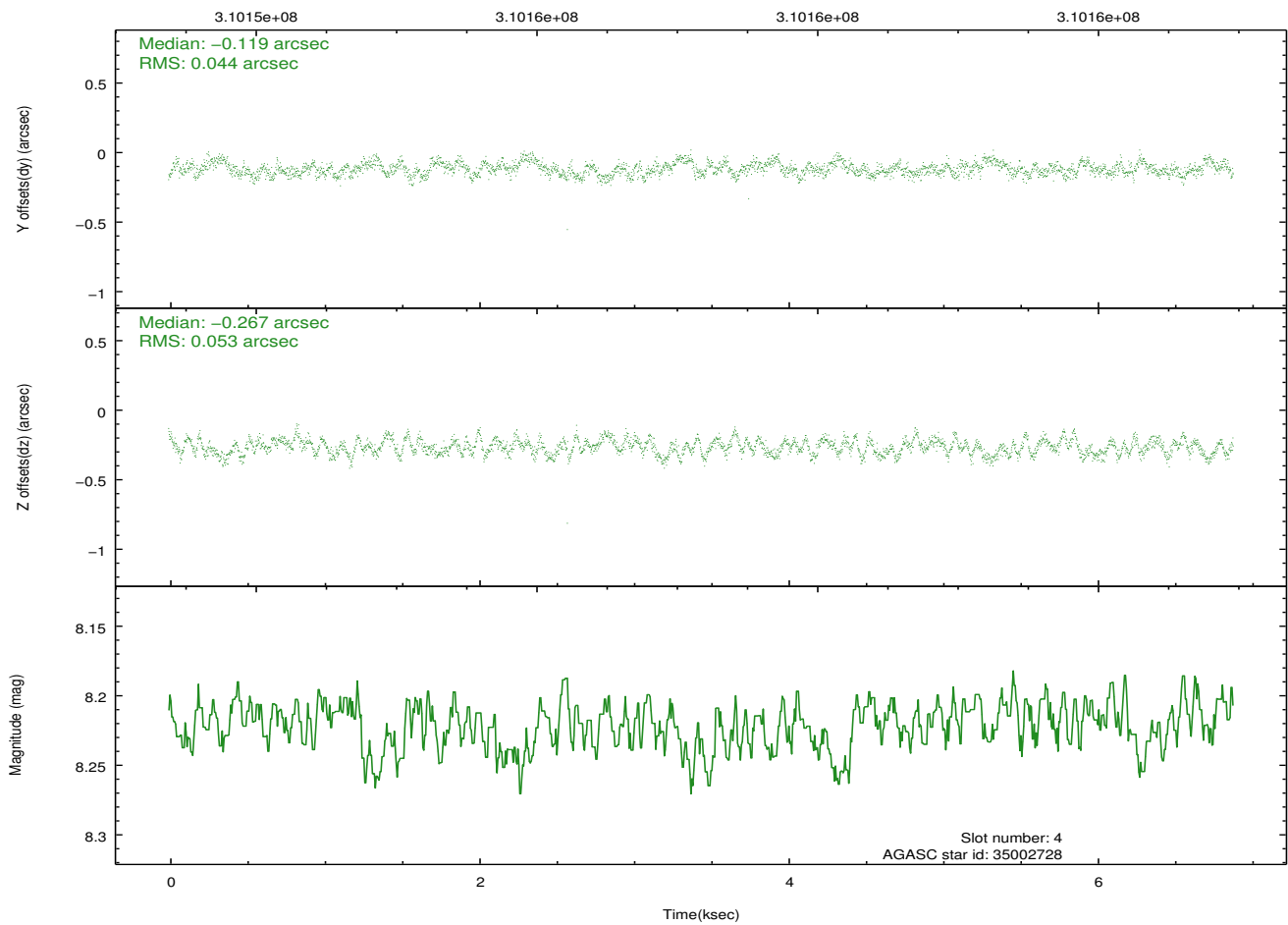
Time (s)



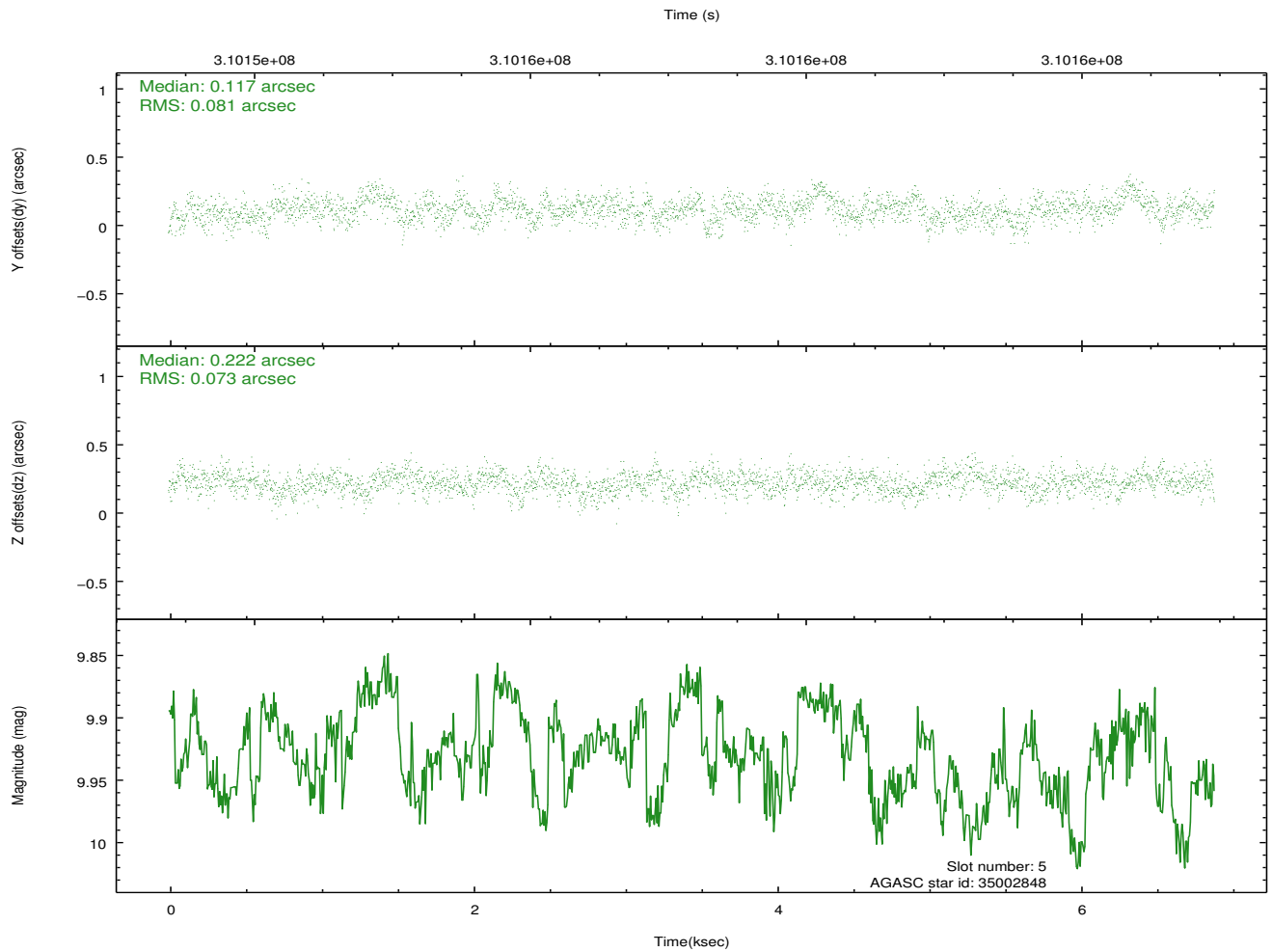
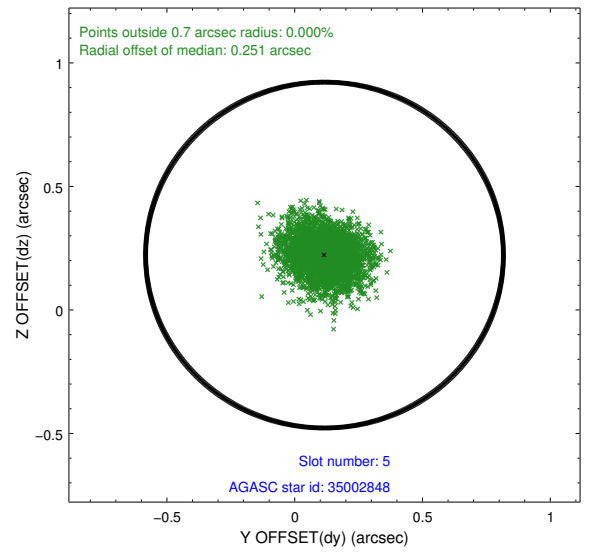
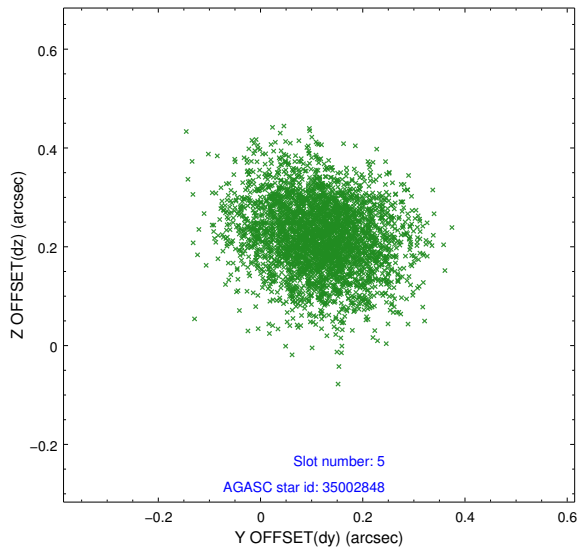
2.4.3 Slot 4



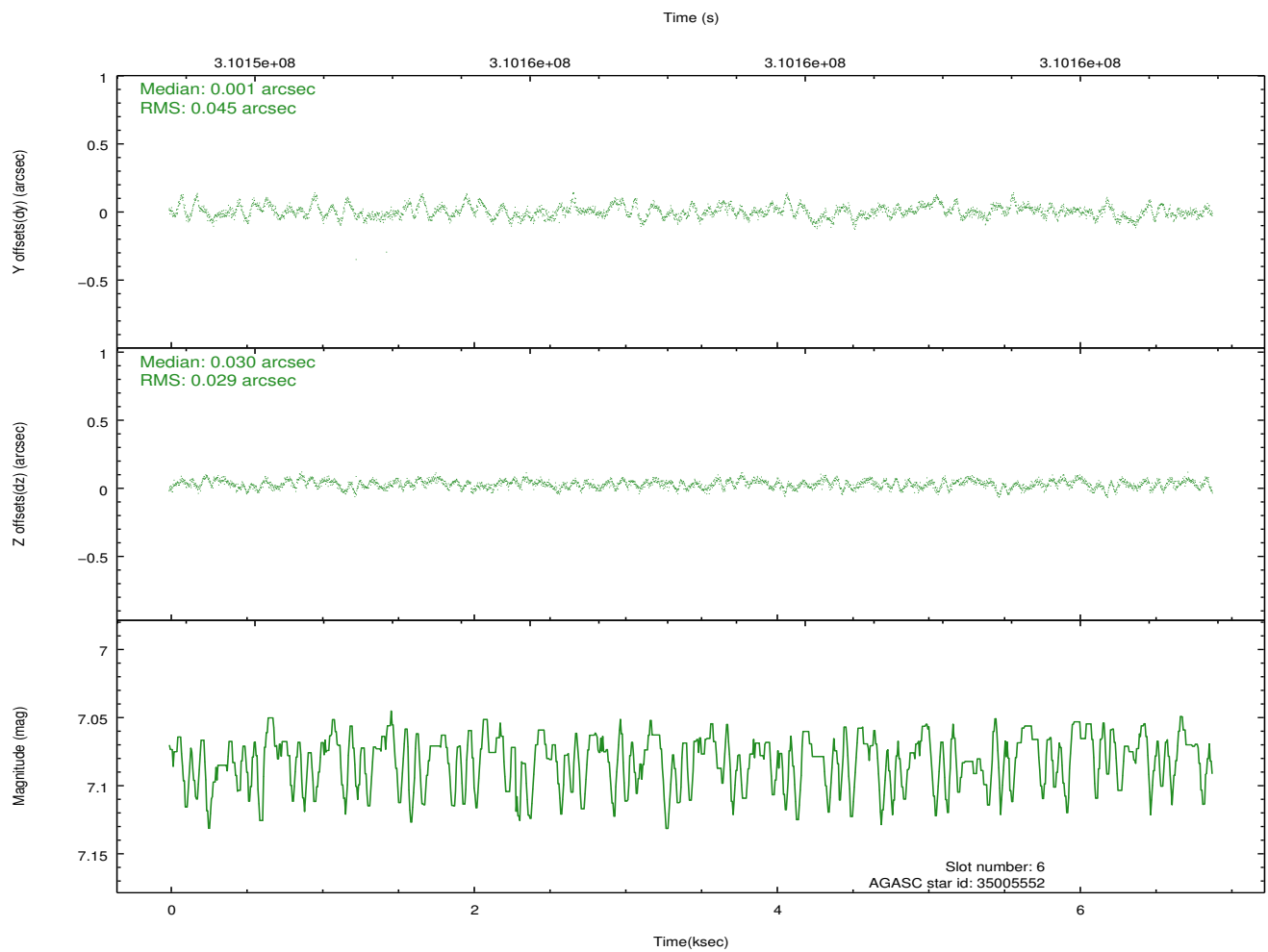
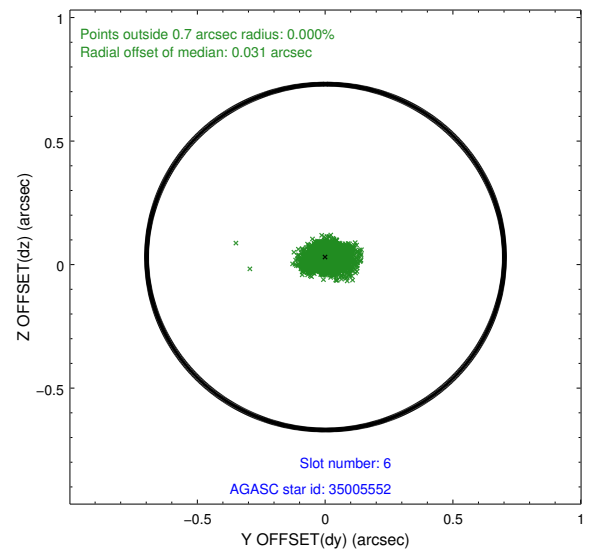
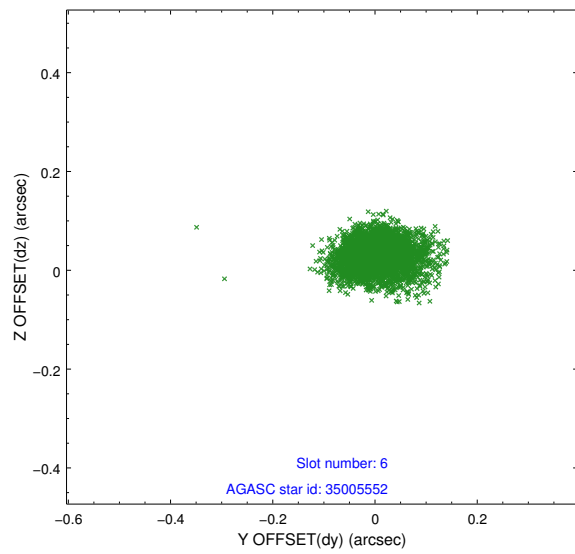
Time (s)



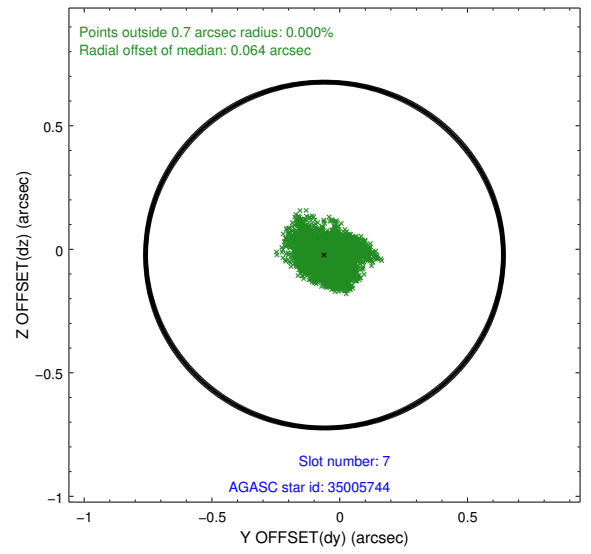
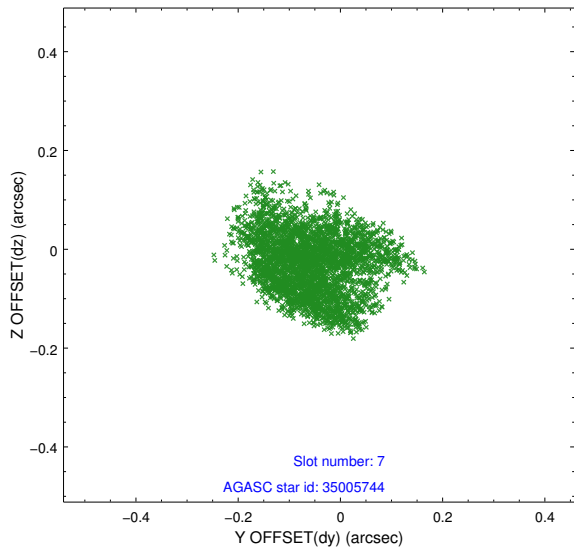
2.4.4 Slot 5



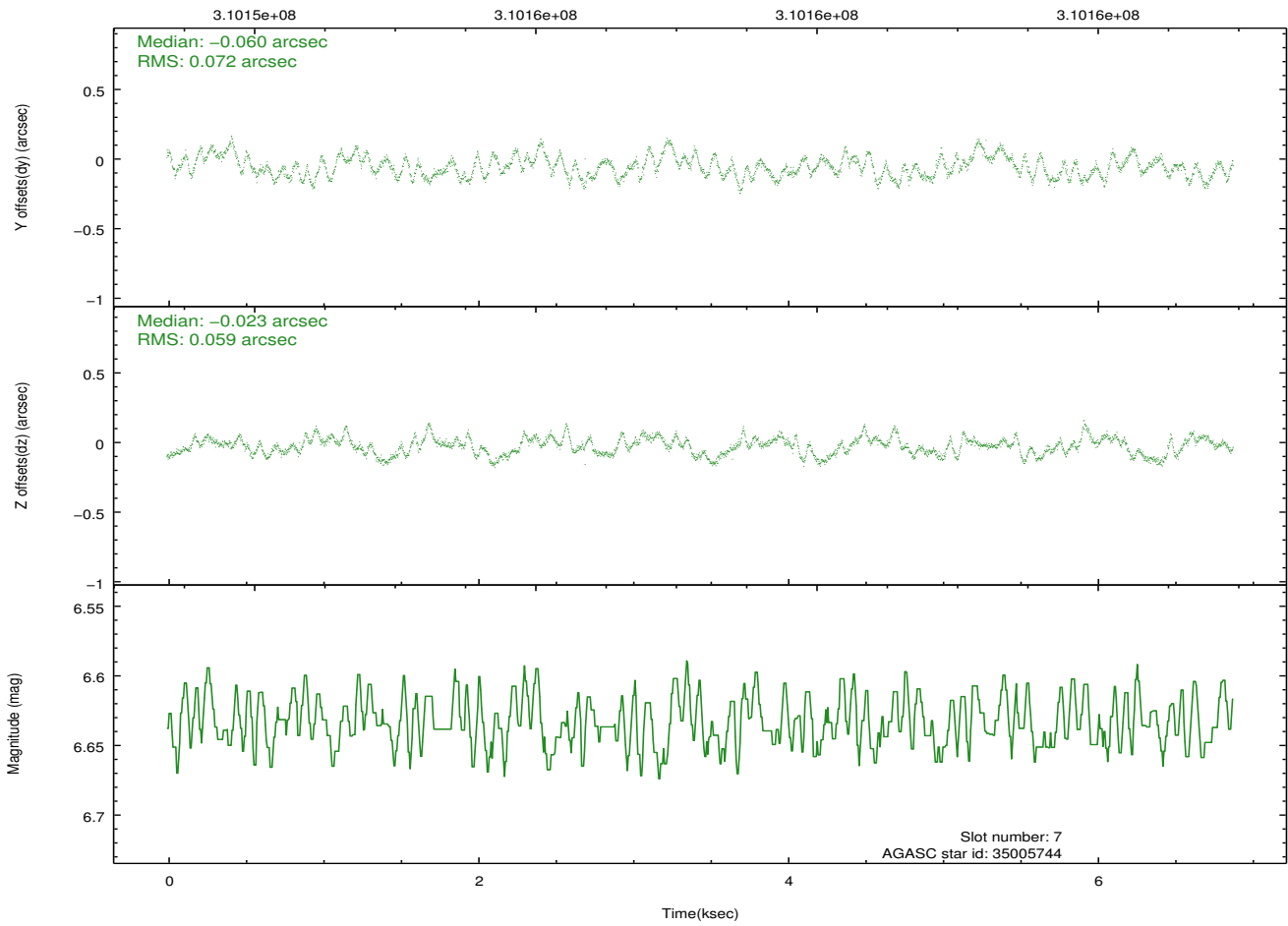
2.4.5 Slot 6



2.4.6 Slot 7

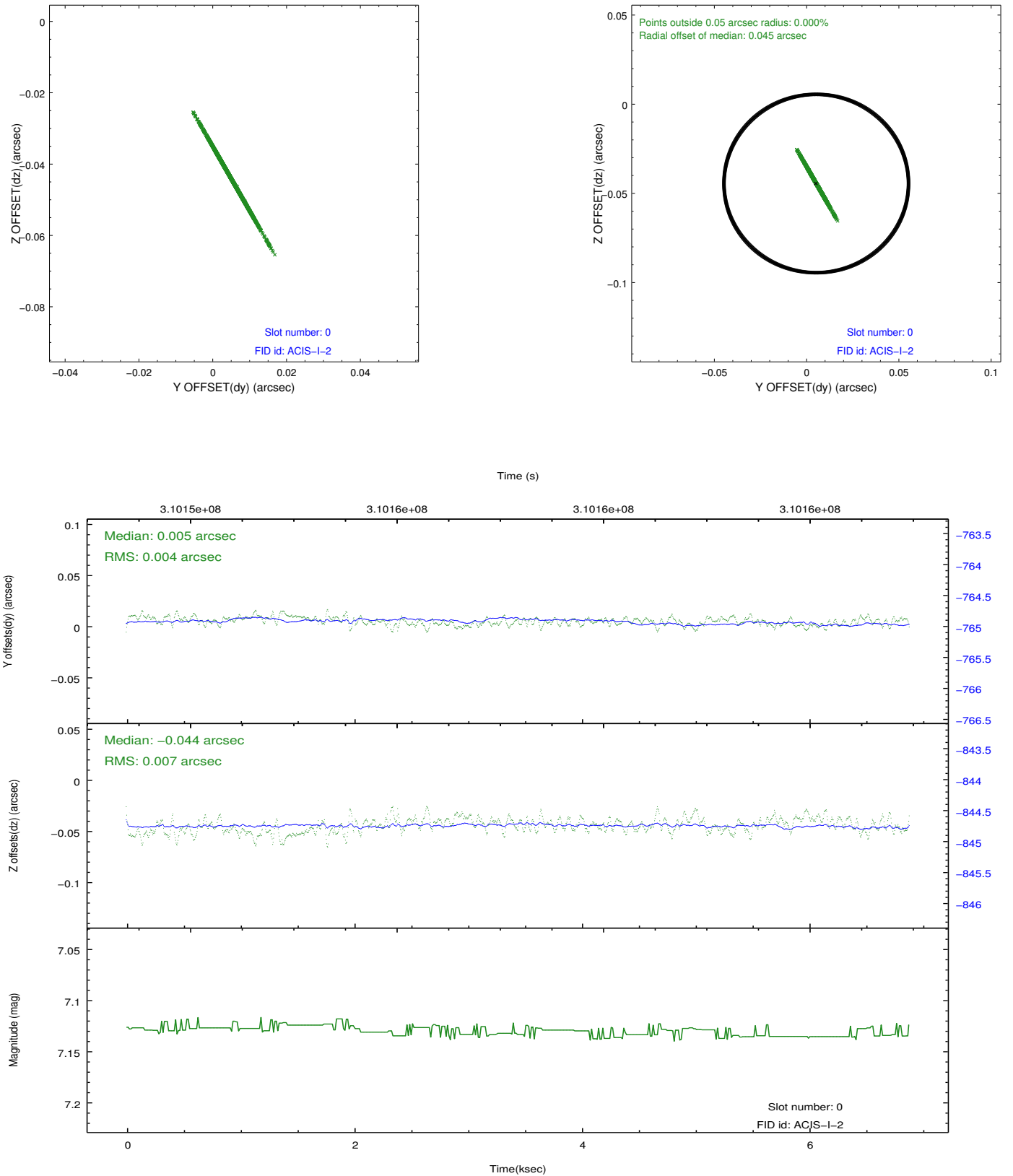


Time (s)

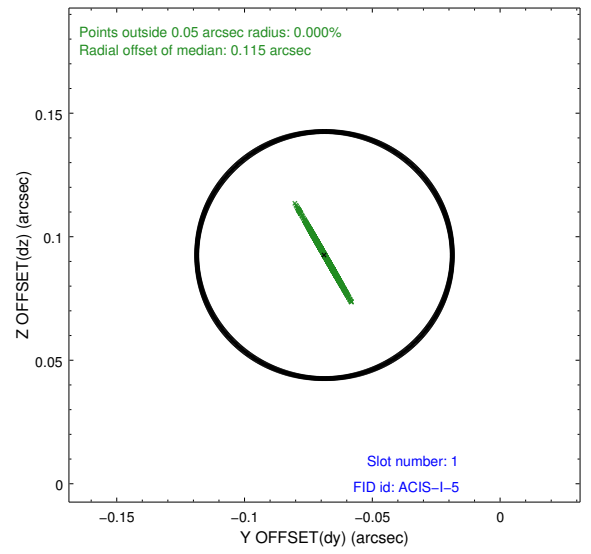
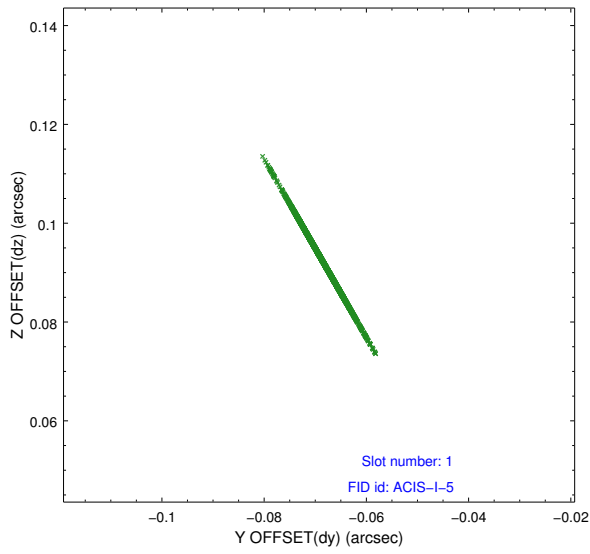


2.5 FID Slots

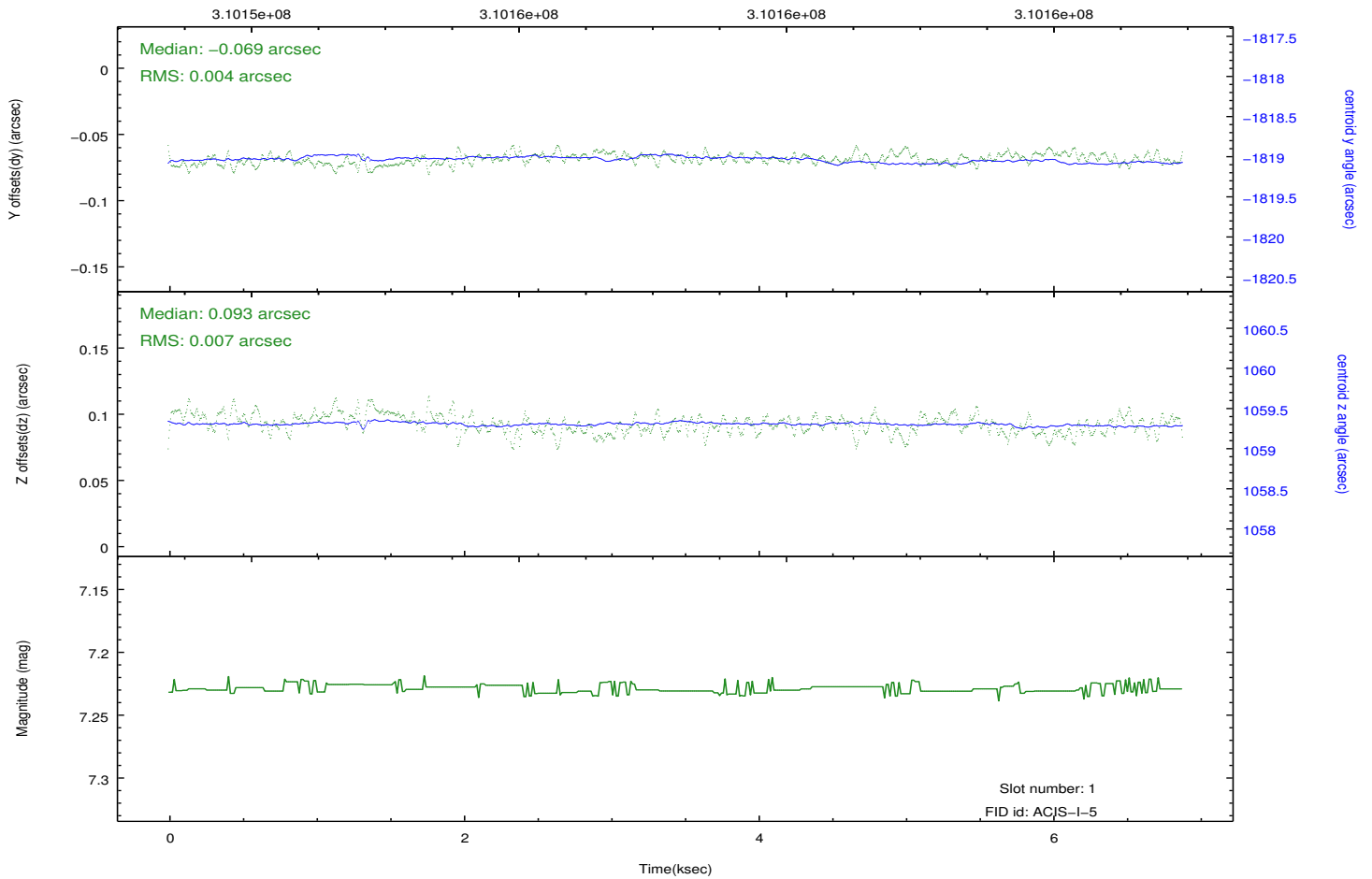
2.5.1 Slot 0



2.5.2 Slot 1



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.88500004

A.2 Comments

Window preference met.