

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9753 - L2 Version 2
Chandra X-Ray Center

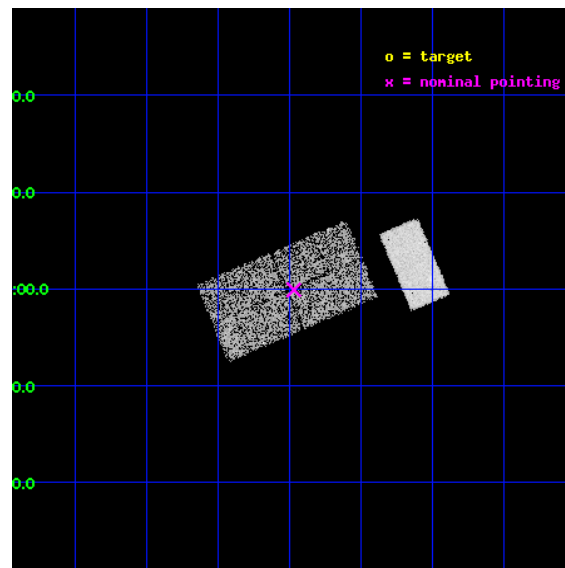
L2 Processing Date : May 3 2012

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1 Front

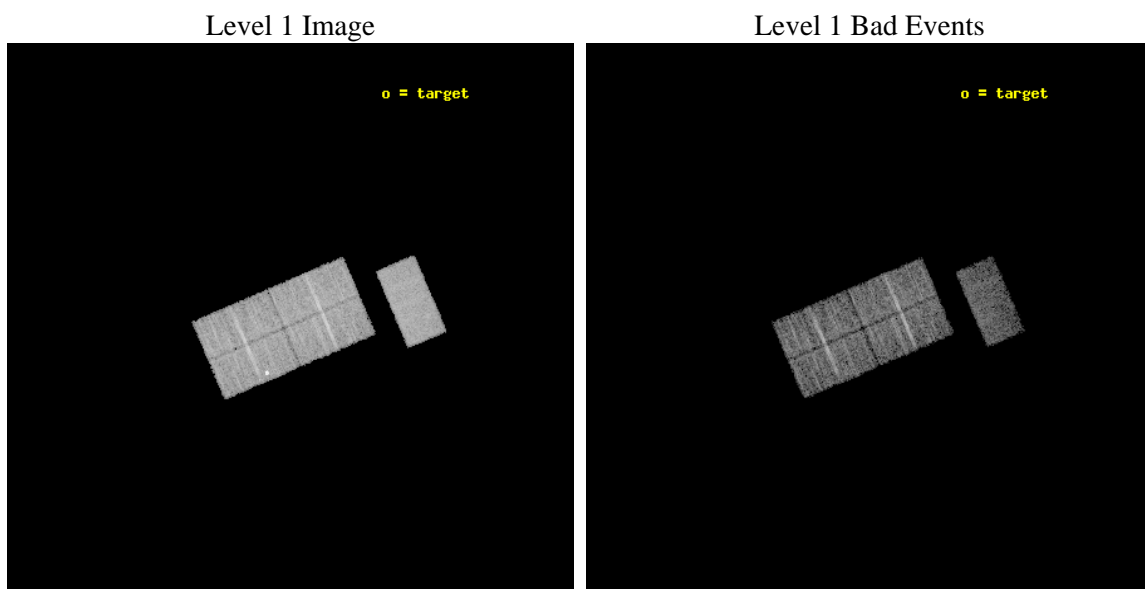
seq_num	100069	Sequence number
obs_id	9753	Observation id
title	Solar wind charge exchange induced X-rays at Venus during the Messenger flyby	Proposal title
observer	Dr. Konrad Dennerl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.733292	Observer's specified target RA [deg]
dec_targ	4.922889	Observer's specified target Dec [deg]
ra_nom	171.36781279125	Nominal RA [deg]
dec_nom	3.9985512285997	Nominal Dec [deg]
roll_nom	66.771914905804	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6886.8000455499	Sum of GTIs [s]
livetime	6733.2812334277	Livetime [s]
ontime0	6886.8000455499	Sum of GTIs [s]
ontime1	6886.8000455499	Sum of GTIs [s]
ontime2	6886.8000455499	Sum of GTIs [s]
ontime3	6886.8000455499	Sum of GTIs [s]
ontime7	6886.8000455499	Sum of GTIs [s]
l2events	24370	Number of level 2 events



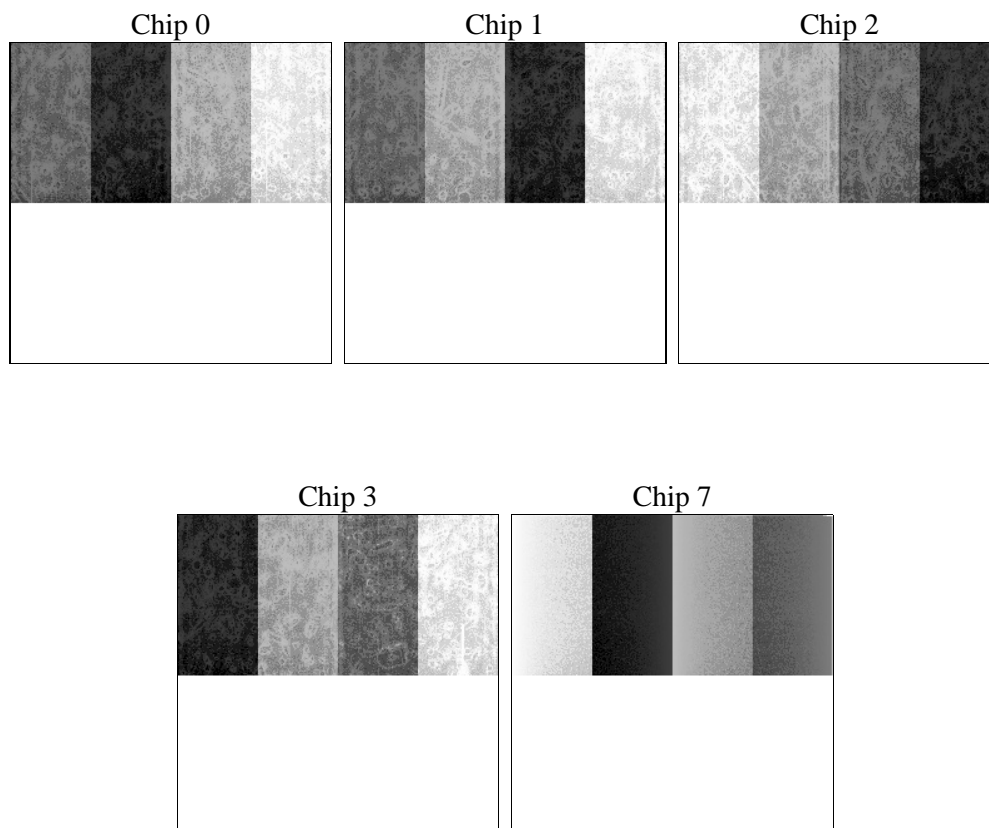
2 OBI

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	6886.8000455499	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	6886.8000455499	Sum of GTIs [s]
date	2012-05-03T15:09:50	Date and time of file creation	ontime1	6886.8000455499	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6886.8000455499	Sum of GTIs [s]
			ontime3	6886.8000455499	Sum of GTIs [s]
			ontime7	6886.8000455499	Sum of GTIs [s]
			l1events	158006	Number of level 1 events

2.1.4 Events

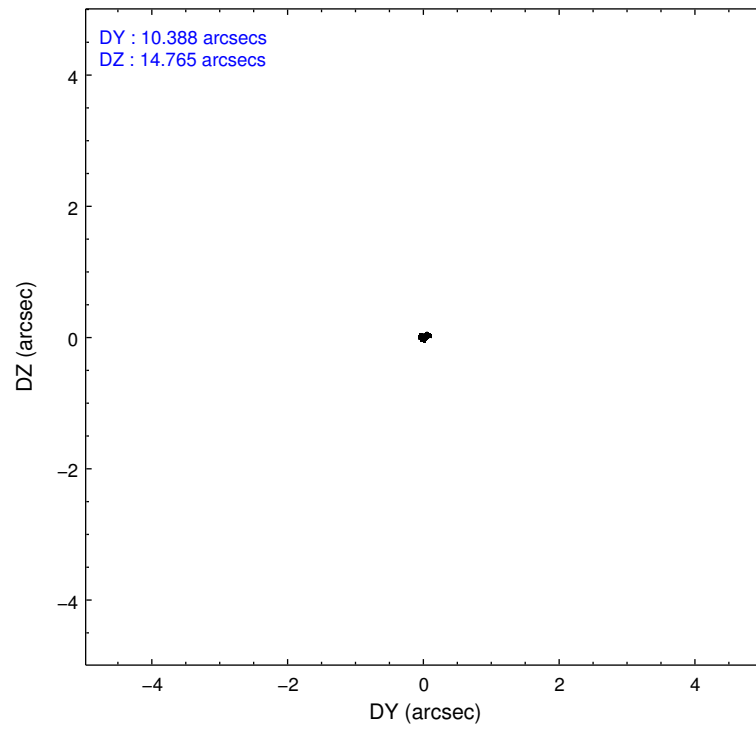
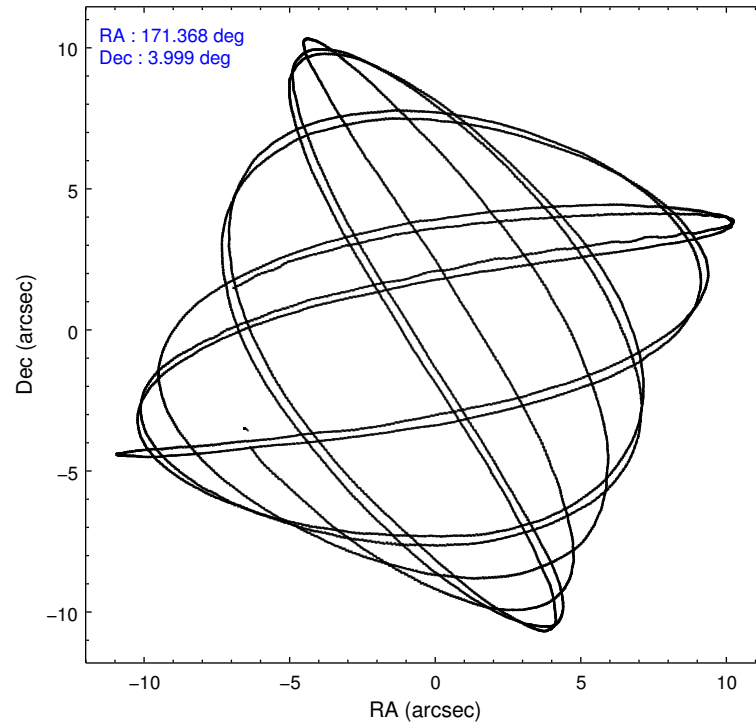
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	30154	31120	32827	30403	33502
rejected events	27242	26311	29821	27432	18393
rejected %	90%	84%	90%	90%	54%

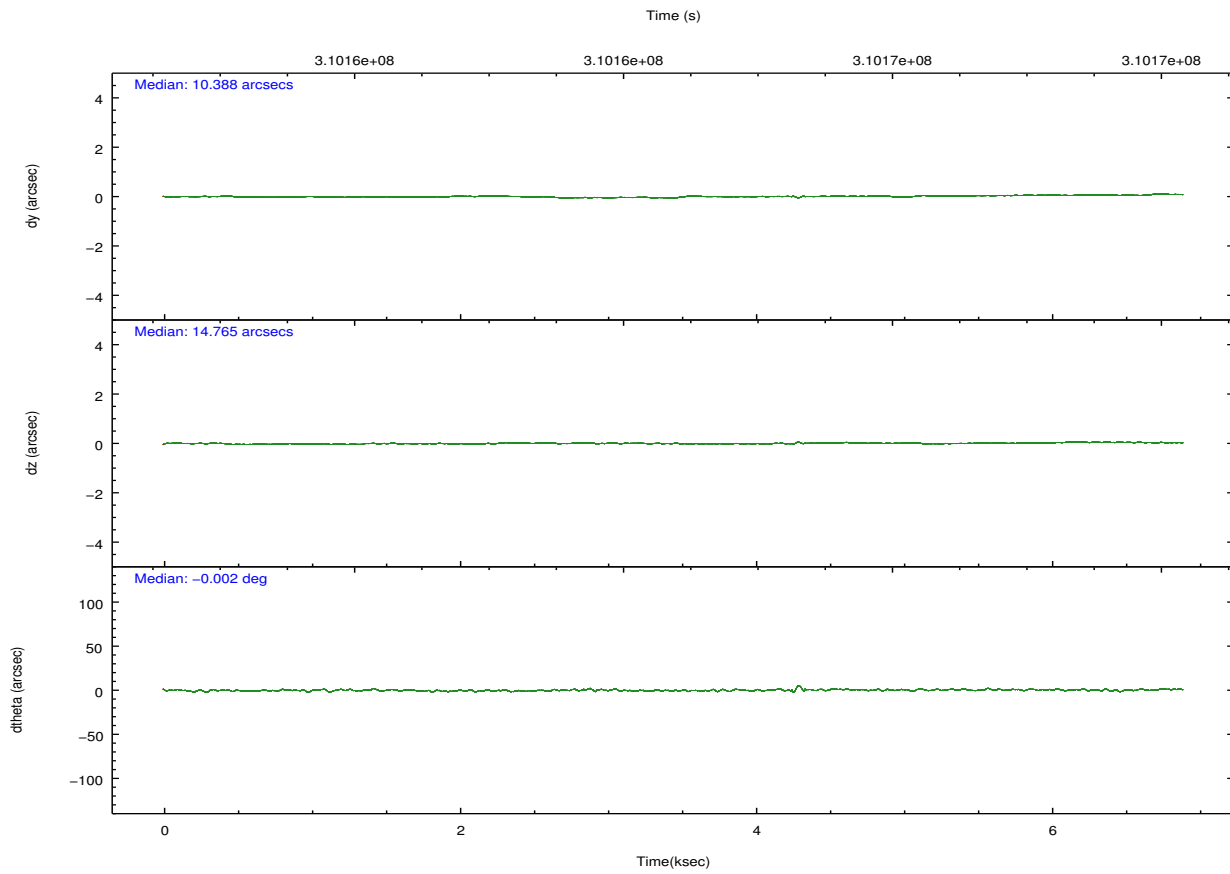
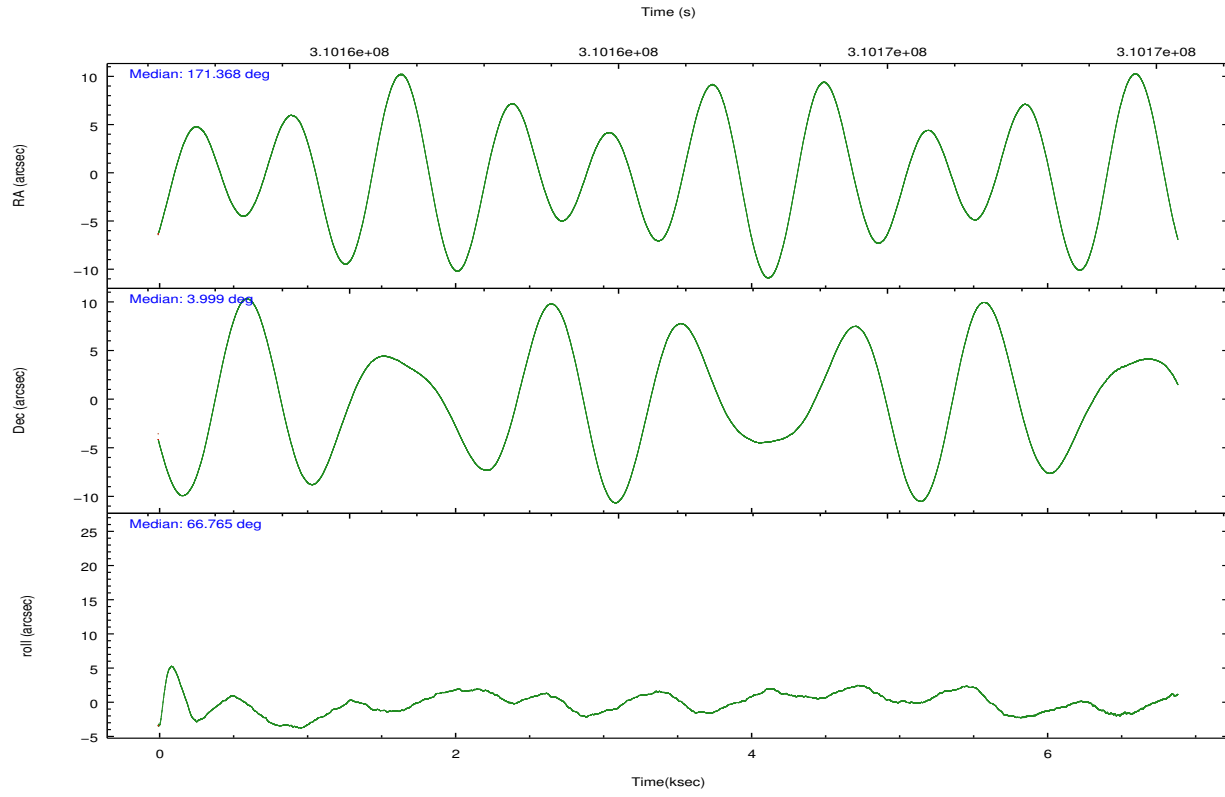
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	978	2767	1054	1052	1589
	3%	8%	3%	3%	4%
grade 1 events	22	16	13	22	54
	0%	0%	0%	0%	0%
grade 2 events	727	746	666	615	3279
	2%	2%	2%	2%	9%
grade 3 events	369	428	427	421	1535
	1%	1%	1%	1%	4%
grade 4 events	367	409	413	378	1496
	1%	1%	1%	1%	4%
grade 5 events	1072	1196	966	1258	3680
	3%	3%	2%	4%	10%
grade 6 events	560	588	529	586	7611
	1%	1%	1%	1%	22%
grade 7 events	26059	24970	28759	26071	14258
	86%	80%	87%	85%	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	171.371116	171.3678127912475	CCD I2 on	Y	Y
[deg] Pointing Dec	3.971266	3.998551228599749	CCD I3 on	Y	Y
[deg] Pointing Roll	66.563019	66.771914905804	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)	310161109.184000	310160733.34329	On-chip summing requested	N	N
Observation start date	2007-10-30T19:50:44	2007-10-30T19:45:33	Subarray requested	CUSTOM	1/2
[s] Observation end time (MET)	310167809.184000	310168789.33118	Subarray start row	513	513
Observation end date	2007-10-30T21:42:24	2007-10-30T21:59:49	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



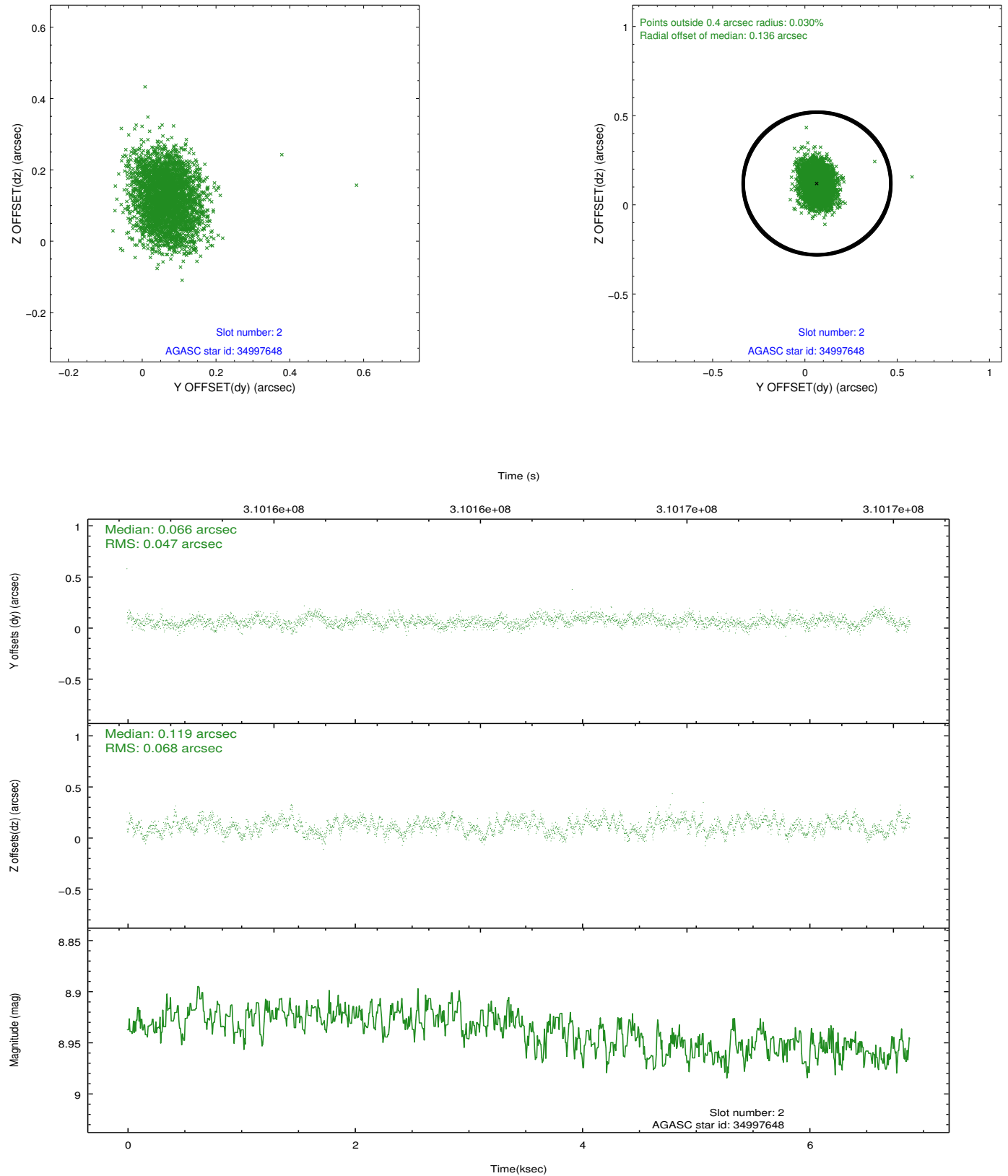


Slot Statistics

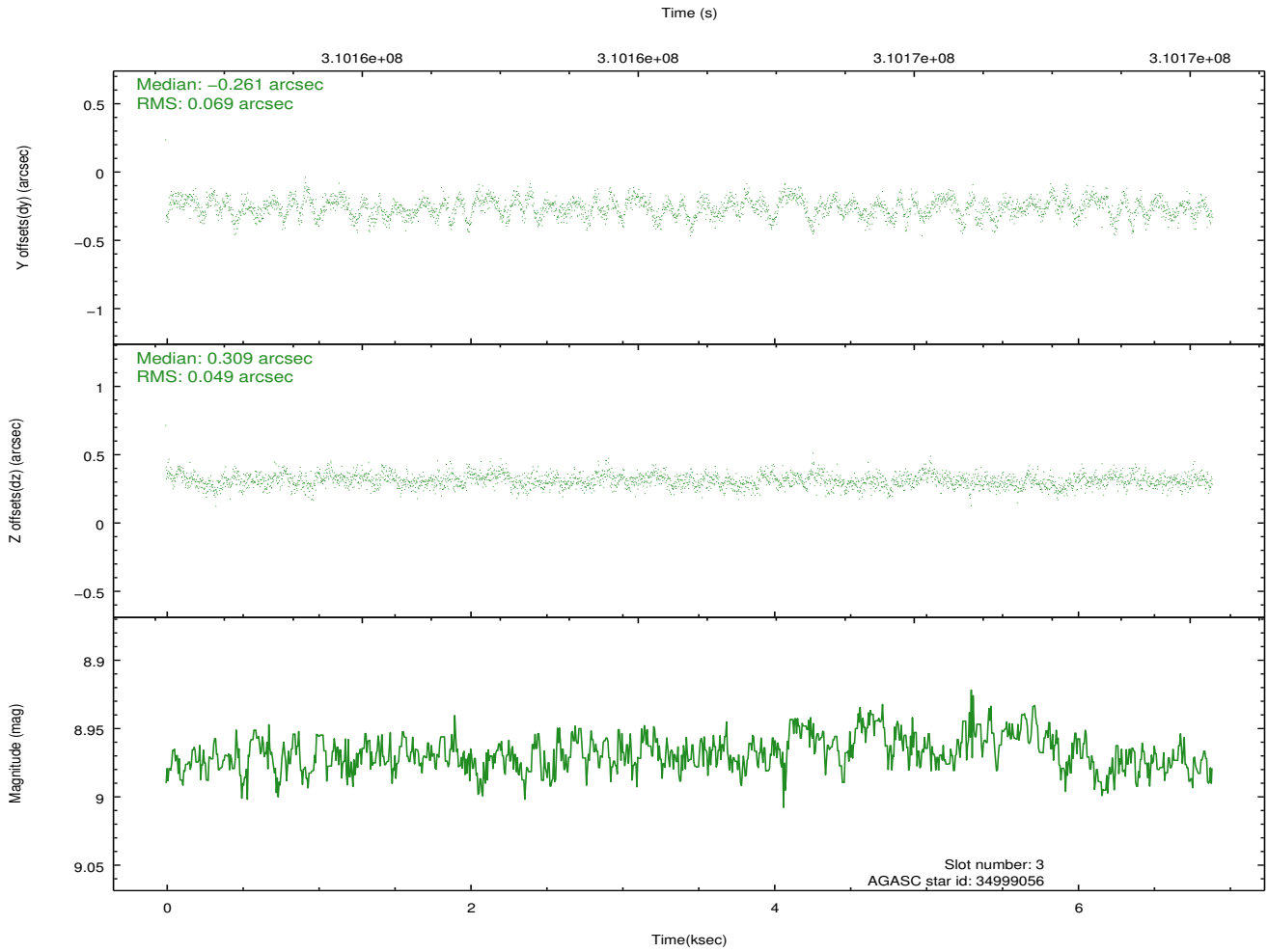
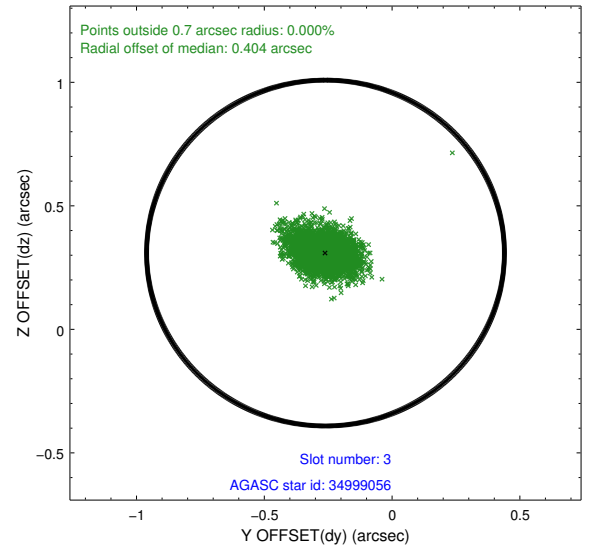
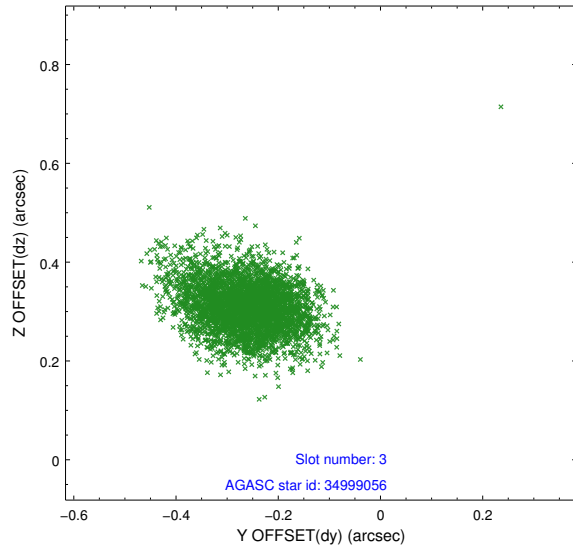
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1681	0.009	-0.051	0.007	0.014	0.000000	0.000000	-764.97	-844.78
1	FID	ACIS-I-5	7.22	1679	-0.073	0.099	0.007	0.014	0.000000	0.000000	-1819.54	1058.79
2	GUIDE	34997648	8.94	3362	0.066	0.119	0.088	0.140	171.624680	3.491643	-1221.37	-1521.77
3	GUIDE	34999056	8.97	3359	-0.261	0.309	0.088	0.147	172.207718	4.225388	2035.27	-2390.60
4	GUIDE	35000464	8.75	3362	0.070	-0.097	0.086	0.142	170.965623	3.618933	-1743.45	832.50
5	GUIDE	35001864	10.44	3348	0.128	-0.021	0.232	0.391	171.014259	3.416350	-2343.15	382.69
6	GUIDE	35002728	8.24	3362	-0.004	-0.403	0.093	0.140	170.760736	4.138149	-320.79	2251.35
7	GUIDE	35005552	7.08	3361	-0.003	0.076	0.067	0.109	171.414379	3.301138	-2151.91	-1100.99

2.4 Star Slots

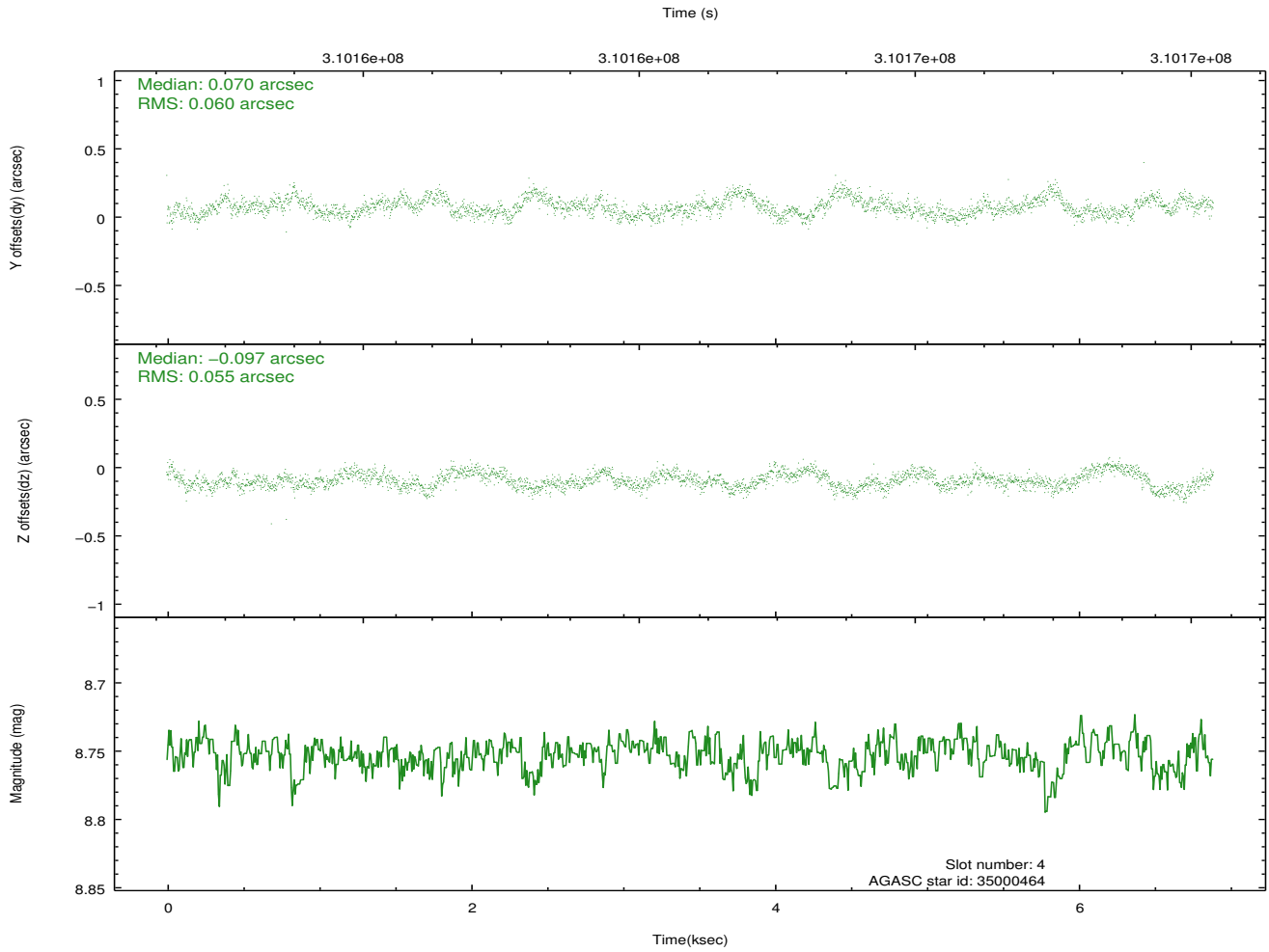
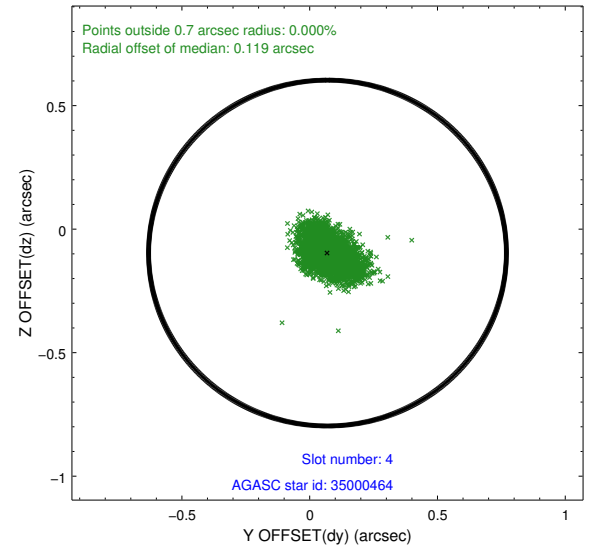
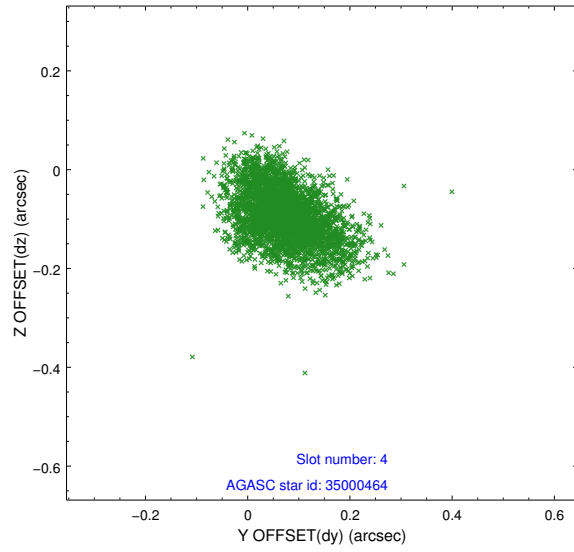
2.4.1 Slot 2



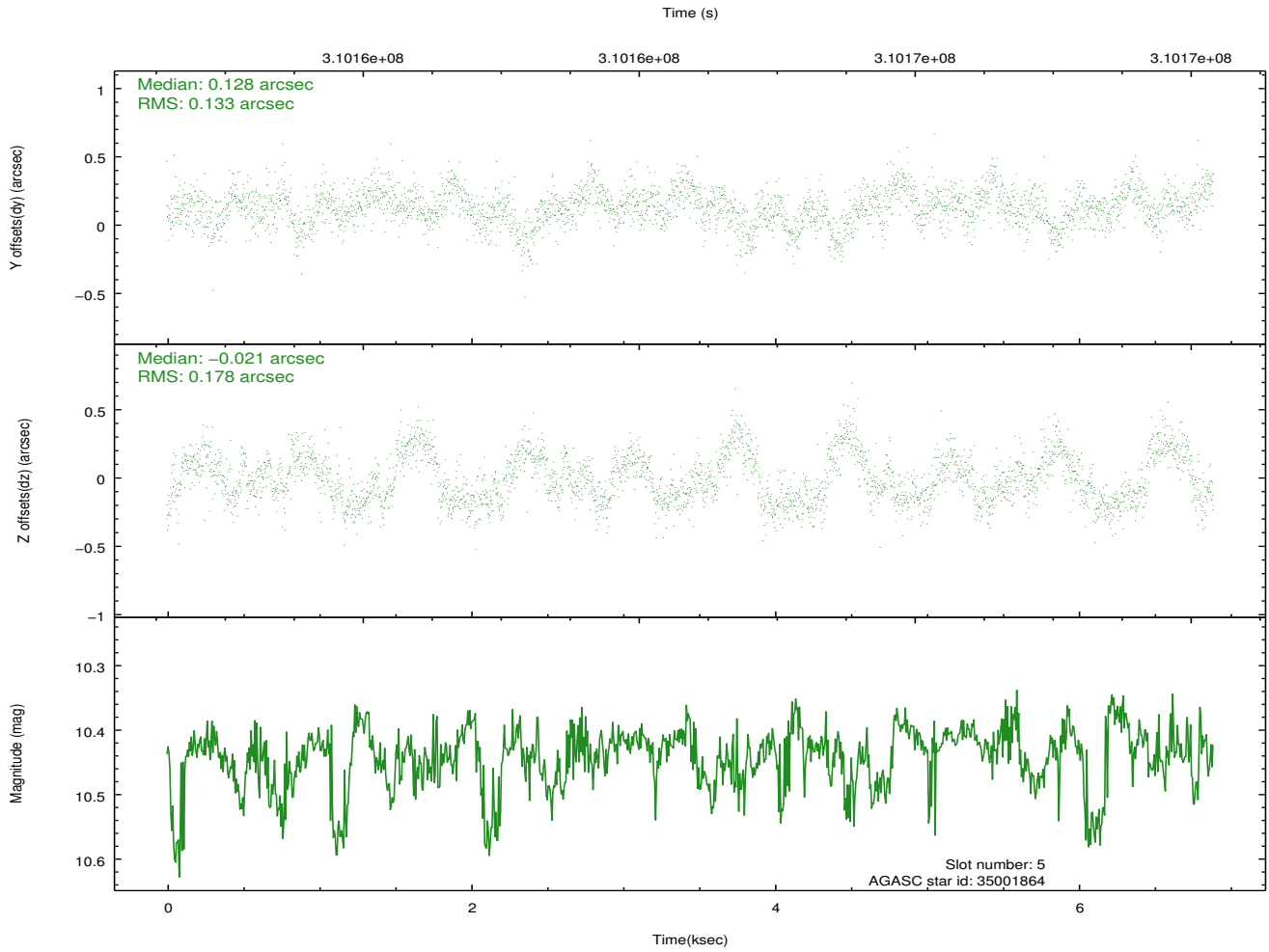
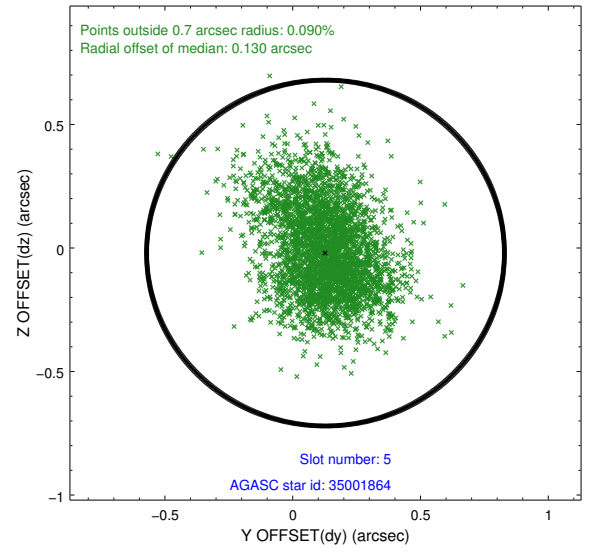
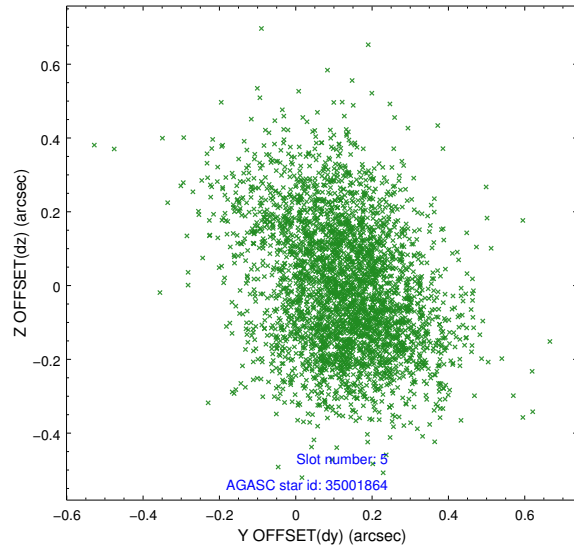
2.4.2 Slot 3



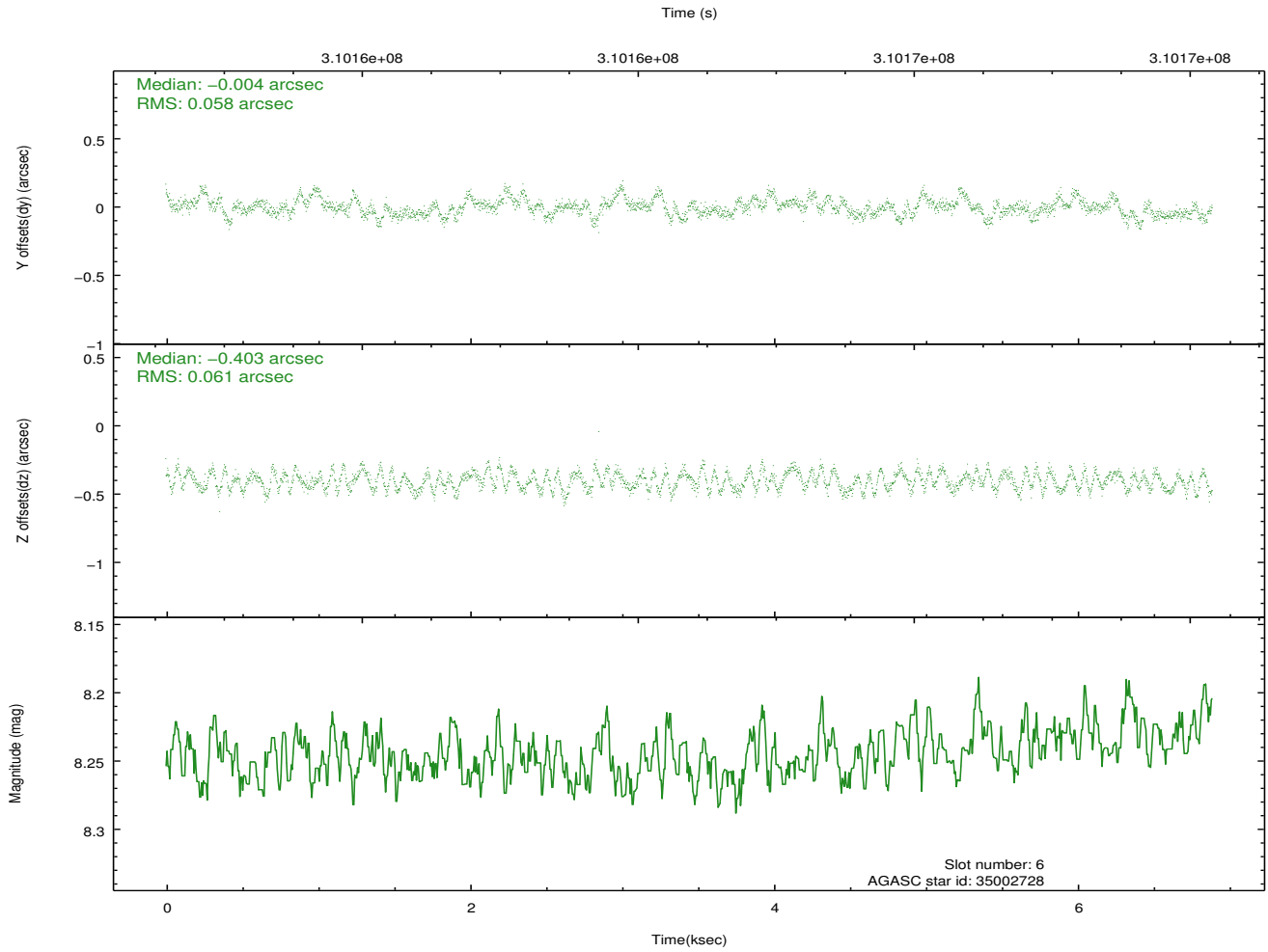
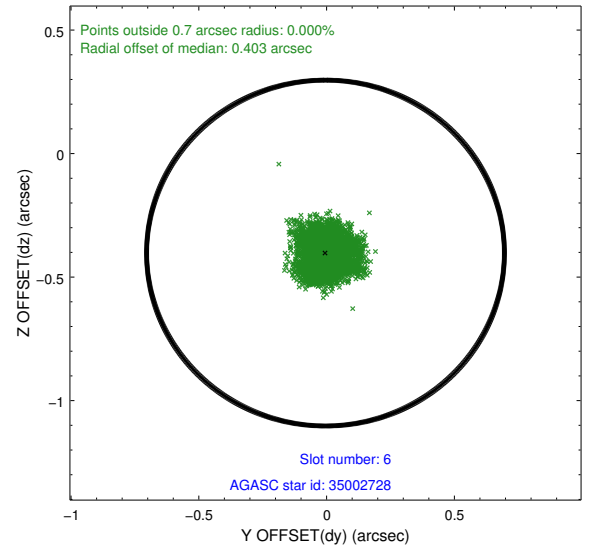
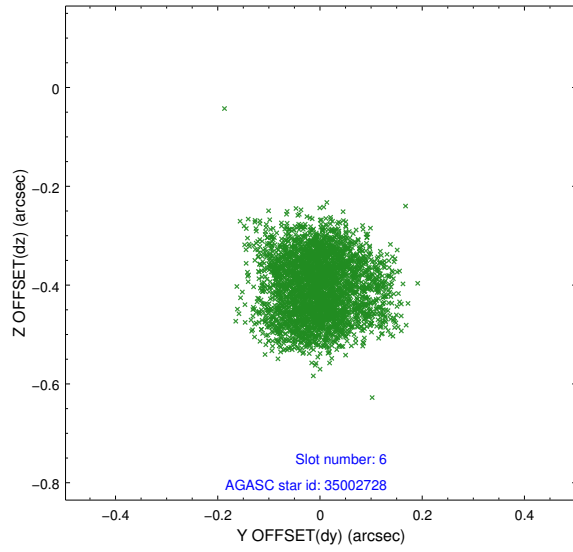
2.4.3 Slot 4



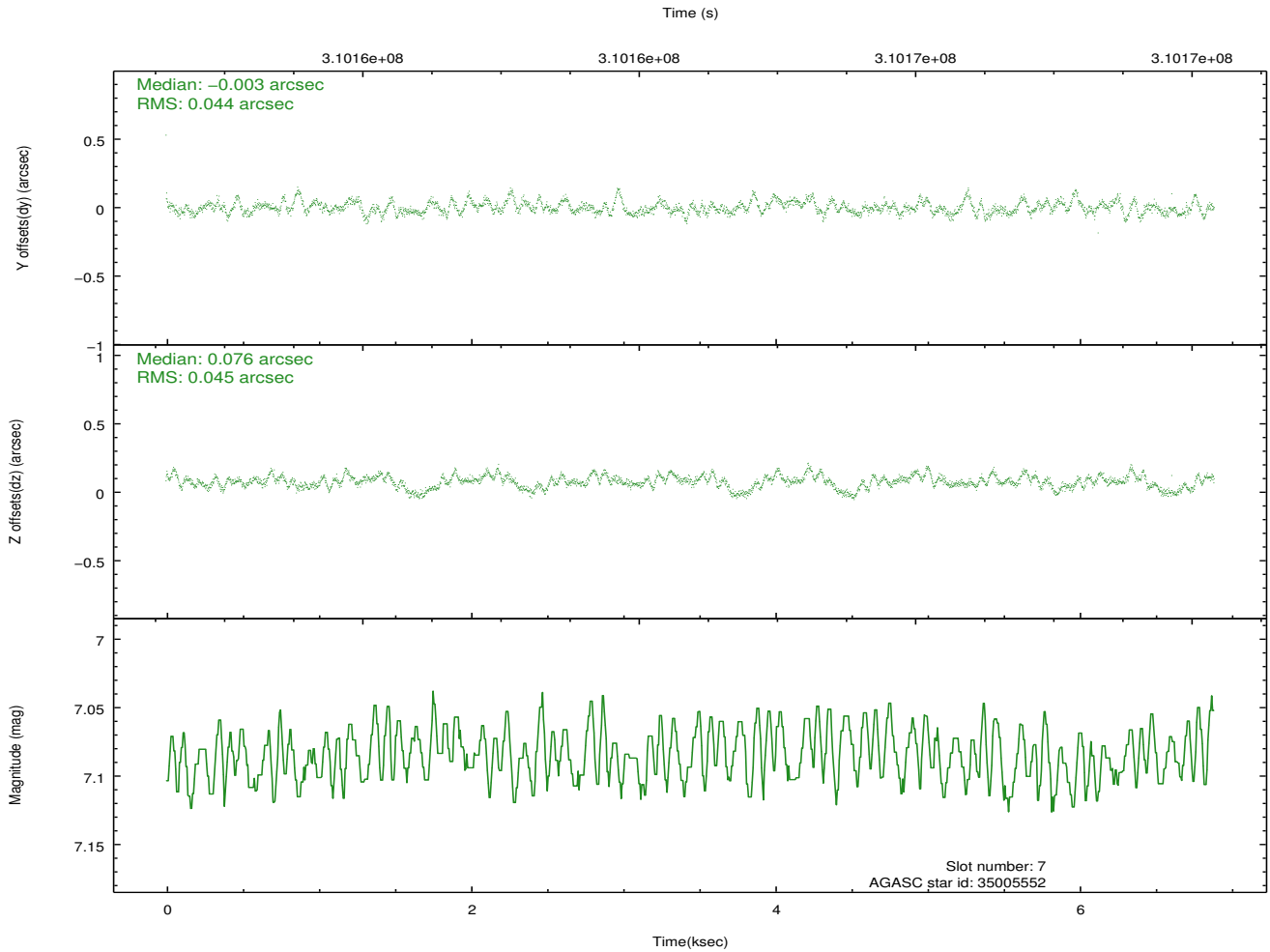
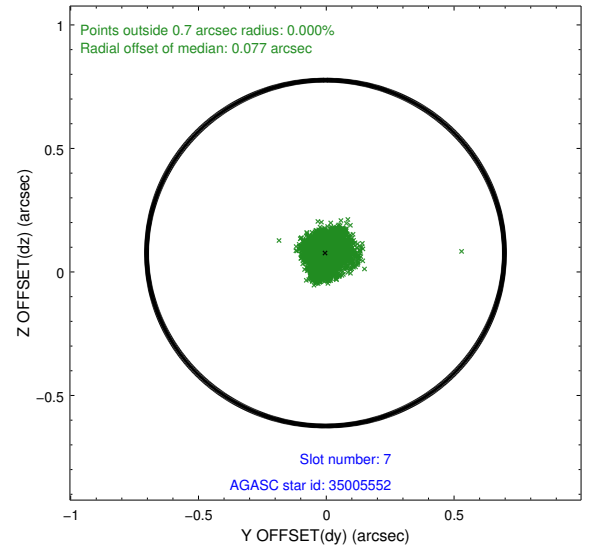
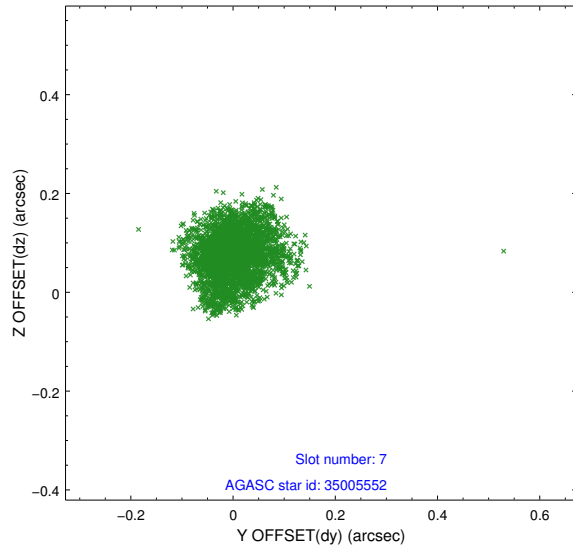
2.4.4 Slot 5



2.4.5 Slot 6

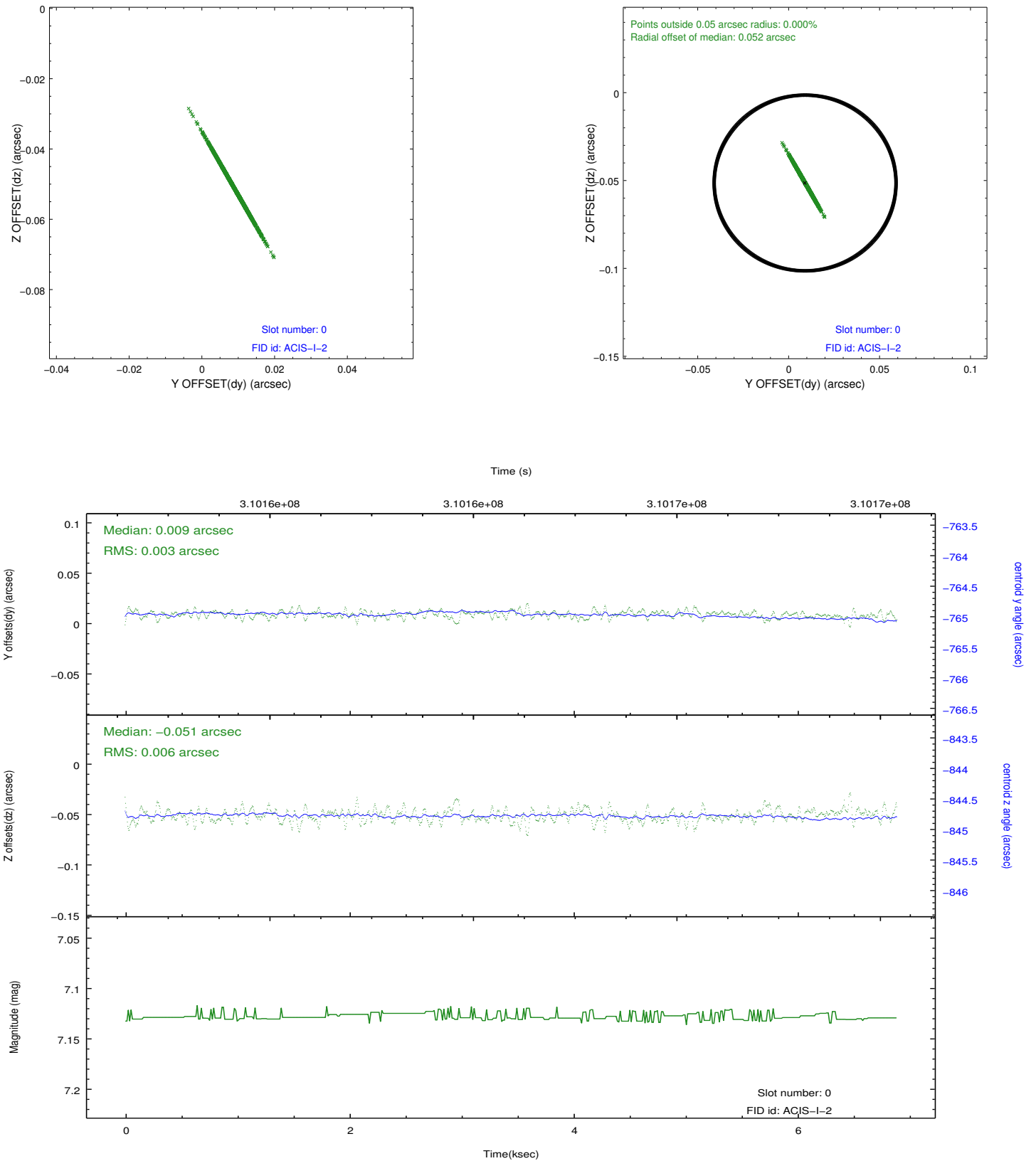


2.4.6 Slot 7

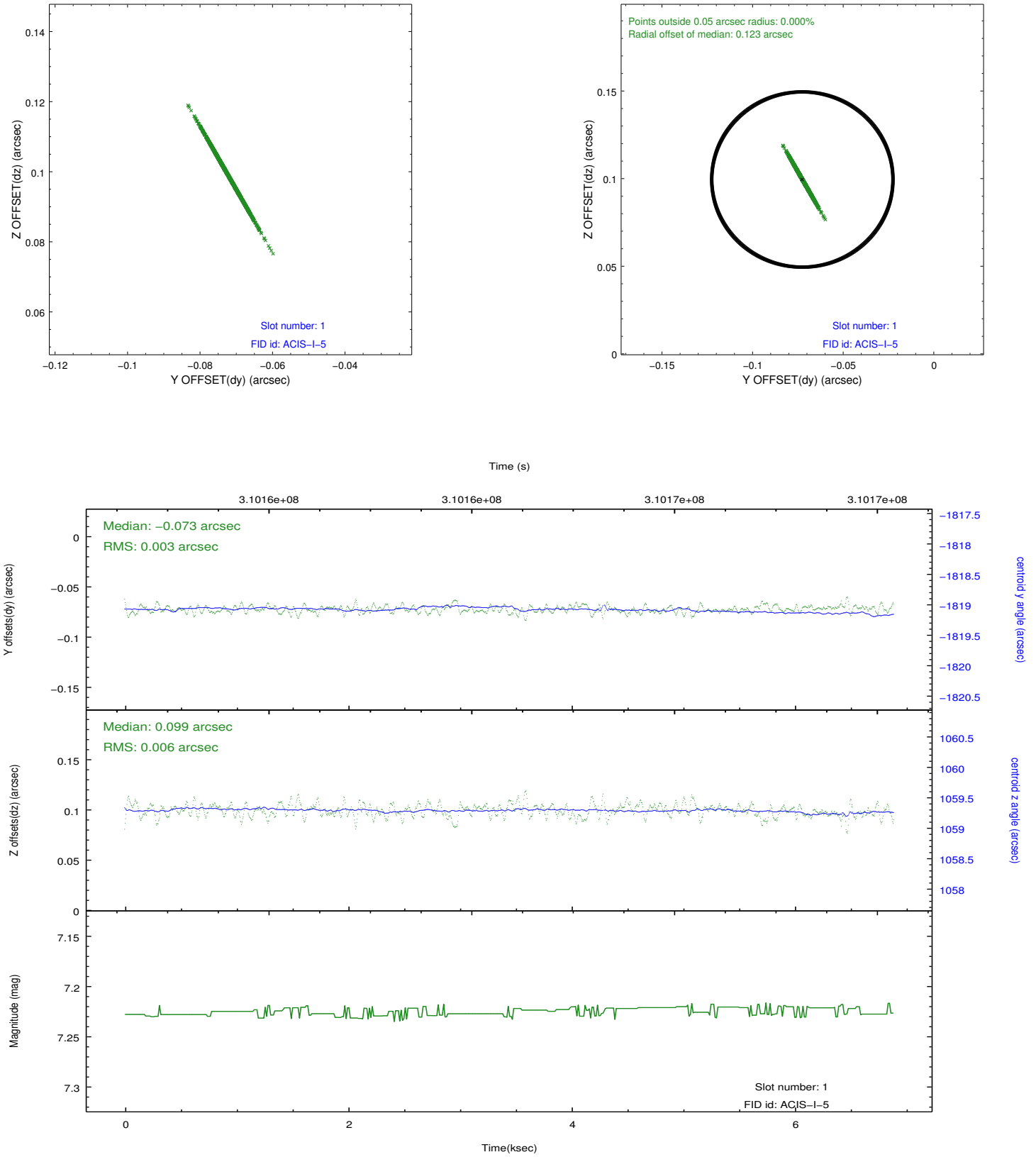


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.88680004

A.2 Comments

Window preference met.