

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7406 - L2 Version 2
Chandra X-Ray Center

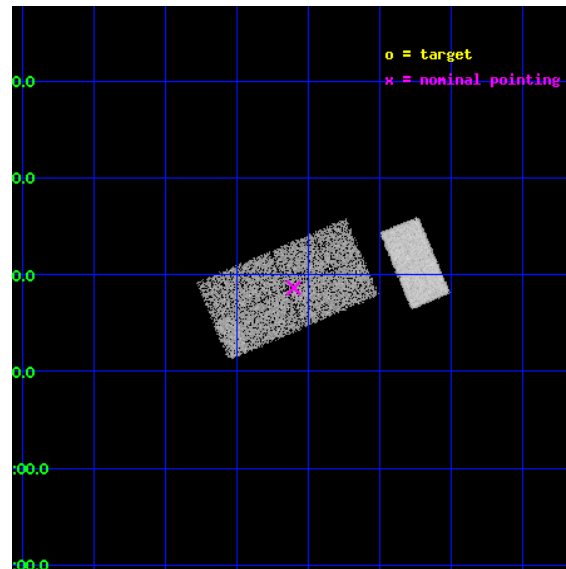
L2 Processing Date : May 3 2012

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1 Front

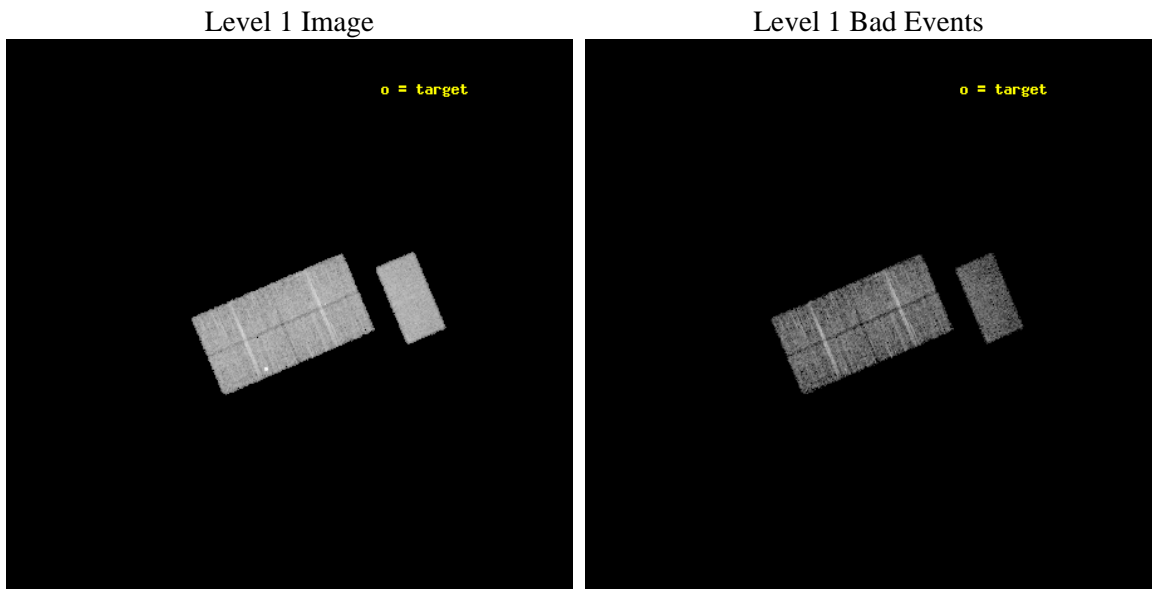
seq_num	100069	Sequence number
obs_id	7406	Observation id
title	Solar wind charge exchange induced X-rays at Venus during the Messenger flyby	Proposal title
observer	Dr. Konrad Dennerl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.733292	Observer's specified target RA [deg]
dec_targ	4.922889	Observer's specified target Dec [deg]
ra_nom	170.52463753949	Nominal RA [deg]
dec_nom	4.3105980915221	Nominal Dec [deg]
roll_nom	66.912750213185	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6732.0000445247	Sum of GTIs [s]
livetime	6581.9319950378	Livetime [s]
ontime0	6732.0000445247	Sum of GTIs [s]
ontime1	6732.0000445247	Sum of GTIs [s]
ontime2	6732.0000445247	Sum of GTIs [s]
ontime3	6732.0000445247	Sum of GTIs [s]
ontime7	6732.0000445247	Sum of GTIs [s]
l2events	32255	Number of level 2 events



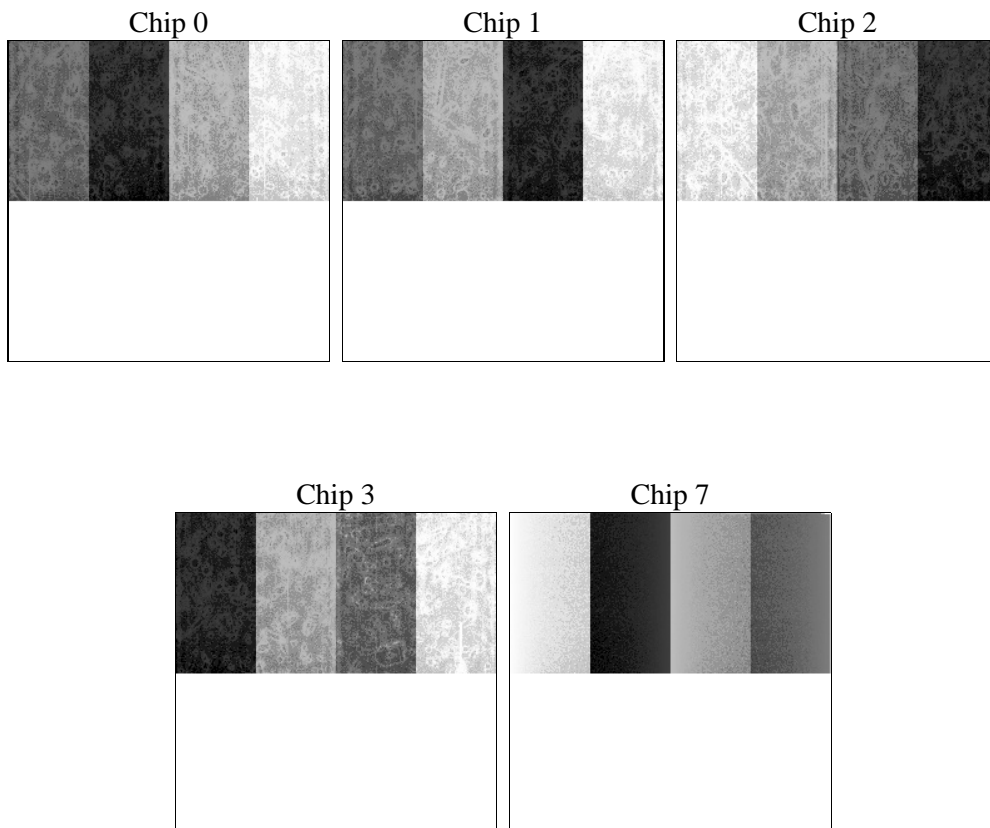
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	6732.0000445247	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	6732.0000445247	Sum of GTIs [s]
date	2012-05-03T14:48:50	Date and time of file creation	ontime1	6732.0000445247	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6732.0000445247	Sum of GTIs [s]
			ontime3	6732.0000445247	Sum of GTIs [s]
			ontime7	6732.0000445247	Sum of GTIs [s]
			l1events	189164	Number of level 1 events

2.1.4 Events

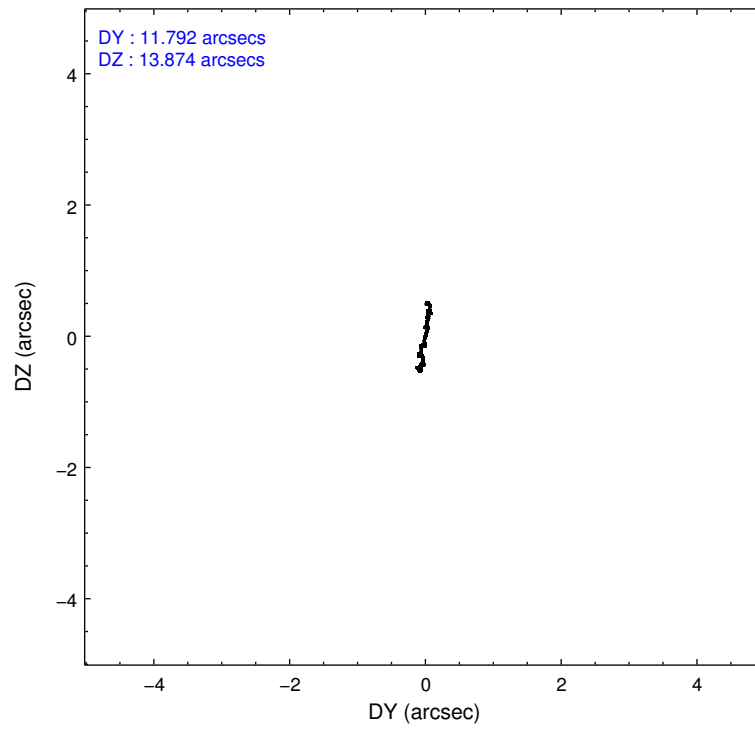
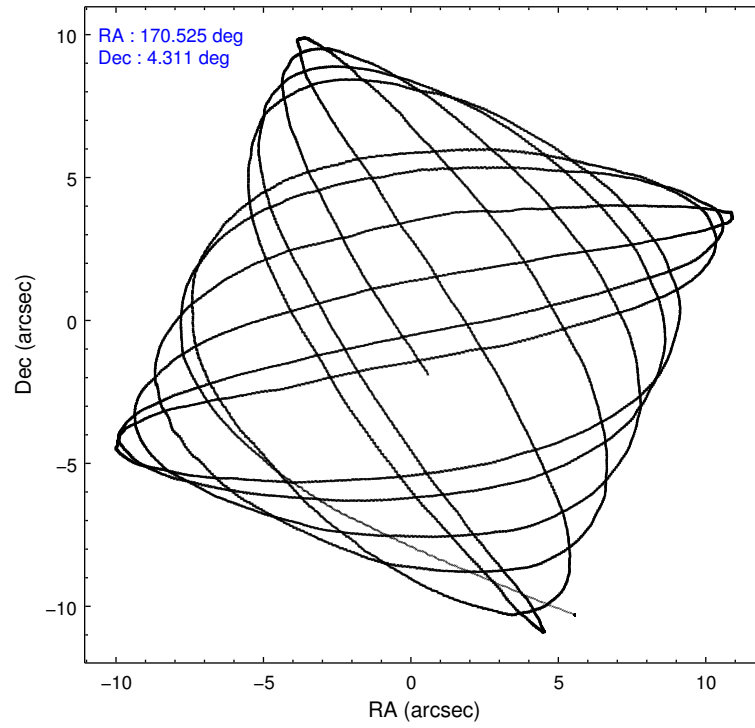
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	35759	36860	38848	35553	42144
rejected events	31382	30470	34504	31272	24578
rejected %	87%	82%	88%	87%	58%

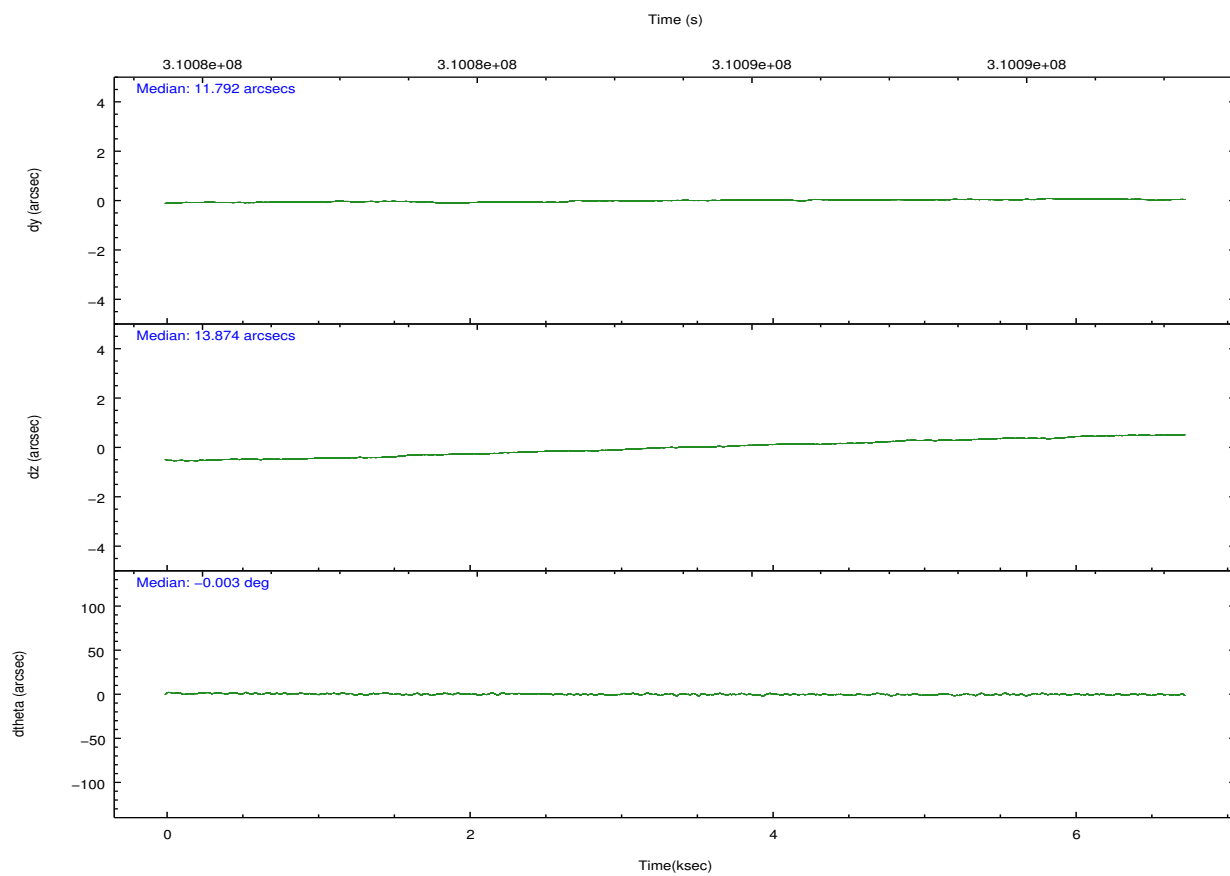
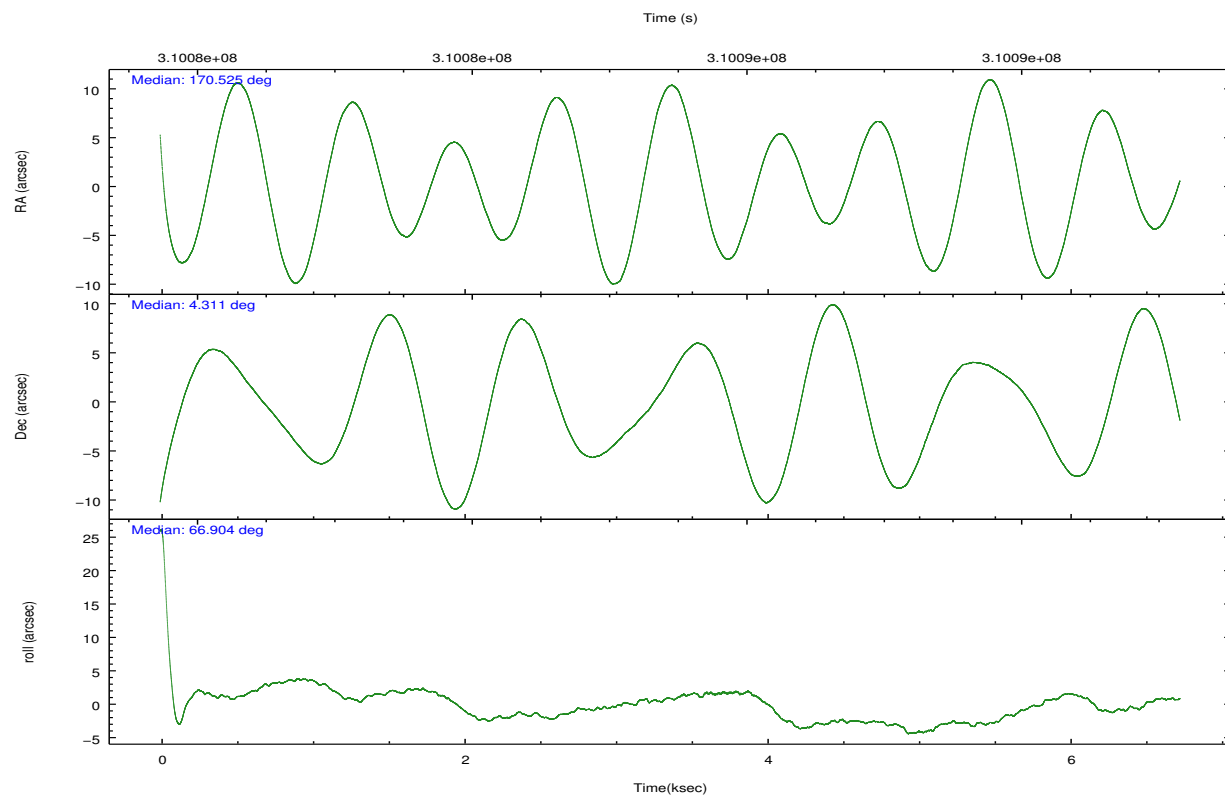
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2531	4793	2650	2686	2232
	7%	13%	6%	7%	5%
grade 1 events	26	26	30	21	64
	0%	0%	0%	0%	0%
grade 2 events	1043	1187	956	915	4278
	2%	3%	2%	2%	10%
grade 3 events	578	574	536	545	2009
	1%	1%	1%	1%	4%
grade 4 events	516	542	545	489	2110
	1%	1%	1%	1%	5%
grade 5 events	1116	1253	1129	1371	4029
	3%	3%	2%	3%	9%
grade 6 events	813	897	779	851	11250
	2%	2%	2%	2%	26%
grade 7 events	29136	27588	32223	28675	16172
	81%	74%	82%	80%	38%

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	170.528099	170.5246375394872	CCD I2 on	Y	Y
[deg] Pointing Dec	4.283223	4.31059809152214	CCD I3 on	Y	Y
[deg] Pointing Roll	66.703759	66.91275021318518	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)	310082199.184000	310080931.96444	On-chip summing requested	N	N
Observation start date	2007-10-29T21:55:34	2007-10-29T21:35:31	Subarray requested	CUSTOM	1/2
[s] Observation end time (MET)	310088799.184000	310088933.11483	Subarray start row	513	513
Observation end date	2007-10-29T23:45:34	2007-10-29T23:48:53	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



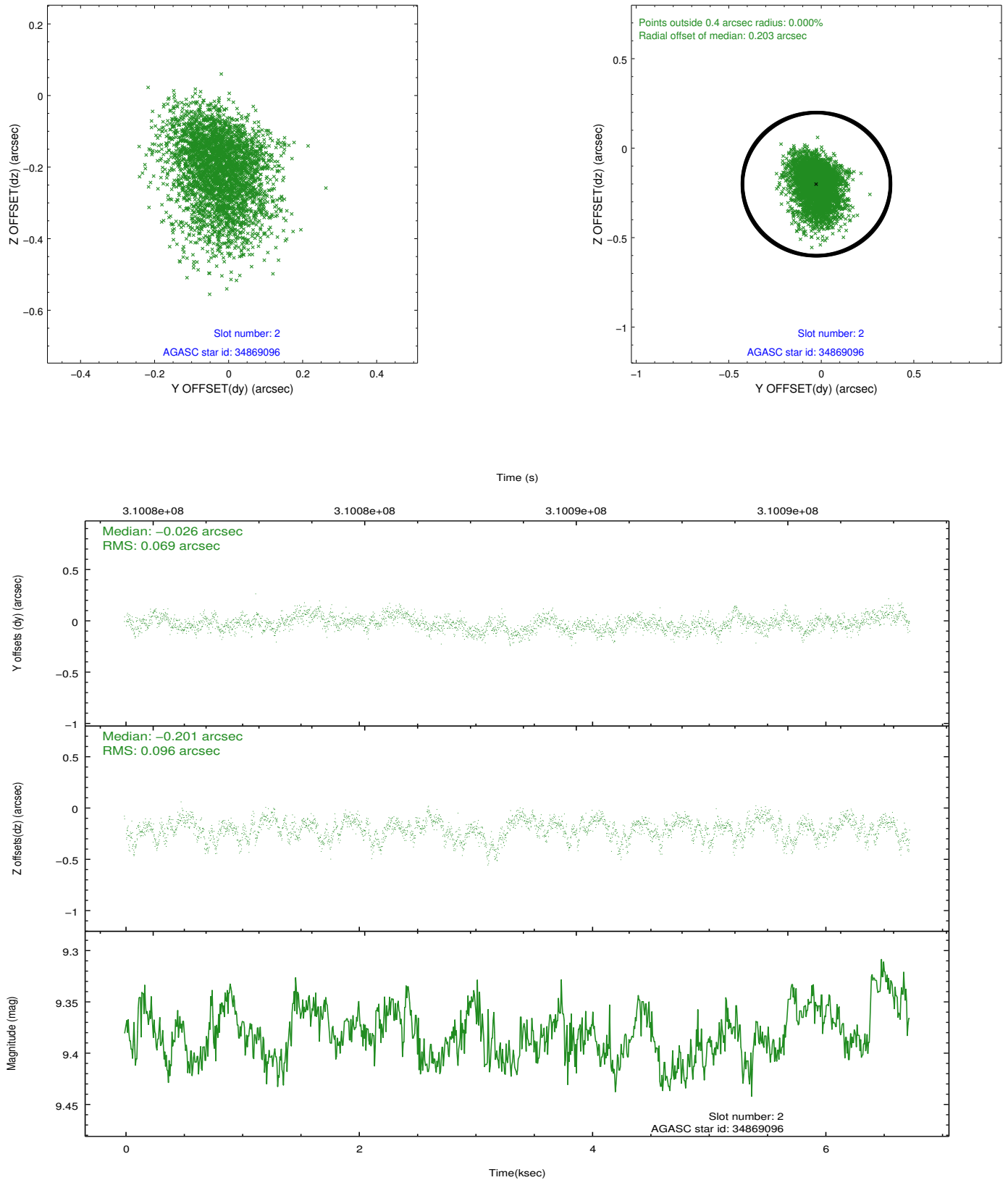


Slot Statistics

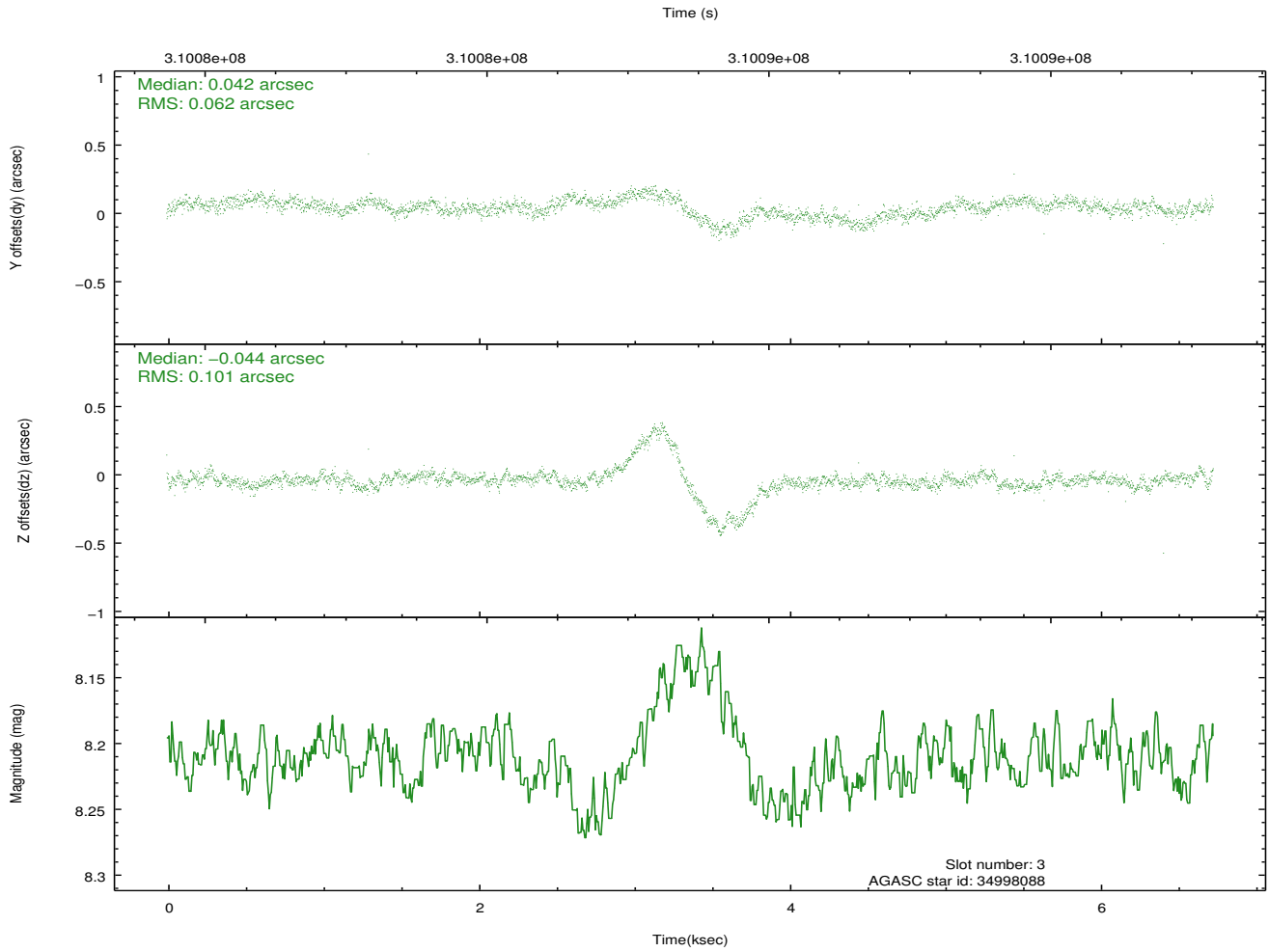
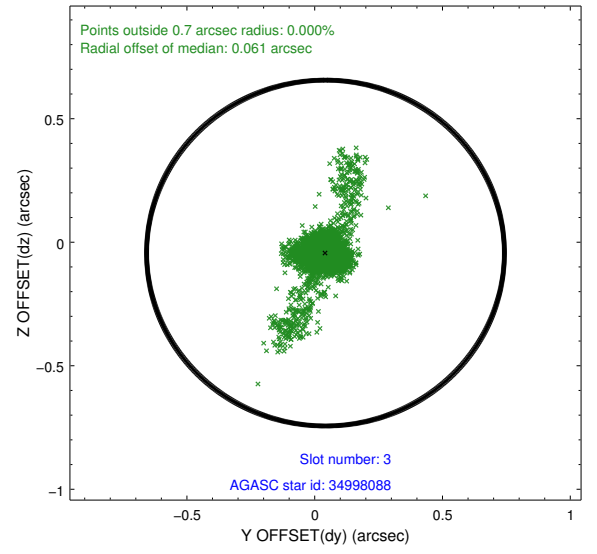
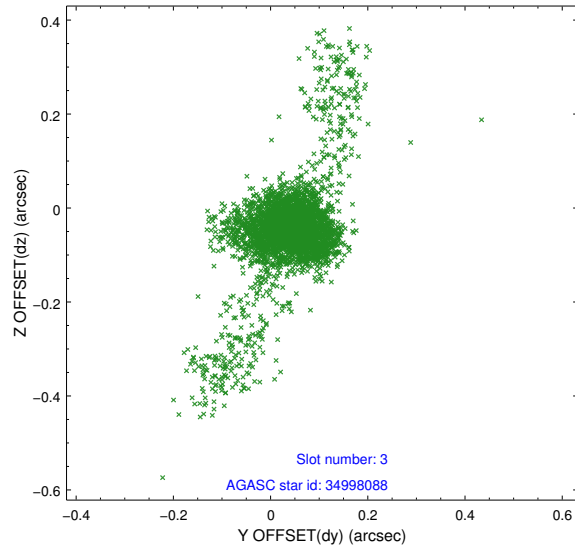
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1642	0.012	-0.057	0.009	0.017	0.000000	0.000000	-766.38	-843.86
1	FID	ACIS-I-5	7.23	1643	-0.076	0.105	0.009	0.017	0.000000	0.000000	-1820.99	1059.69
2	GUIDE	34869096	9.38	3276	-0.026	-0.201	0.123	0.207	169.946995	4.431637	-334.18	2127.23
3	GUIDE	34998088	8.21	3283	0.042	-0.044	0.078	0.310	170.391115	4.208300	-442.71	346.24
4	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	BAD	35000776	7.22	2466	-0.257	-0.077	0.087	0.132	170.371940	3.937464	-1365.25	22.45
6	GUIDE	35002728	8.20	3216	0.142	0.036	0.072	0.125	170.760736	4.138149	-149.41	-972.60
7	GUIDE	35000464	8.77	3281	0.040	0.283	0.118	0.180	170.965623	3.618933	-1575.34	-2389.16

2.4 Star Slots

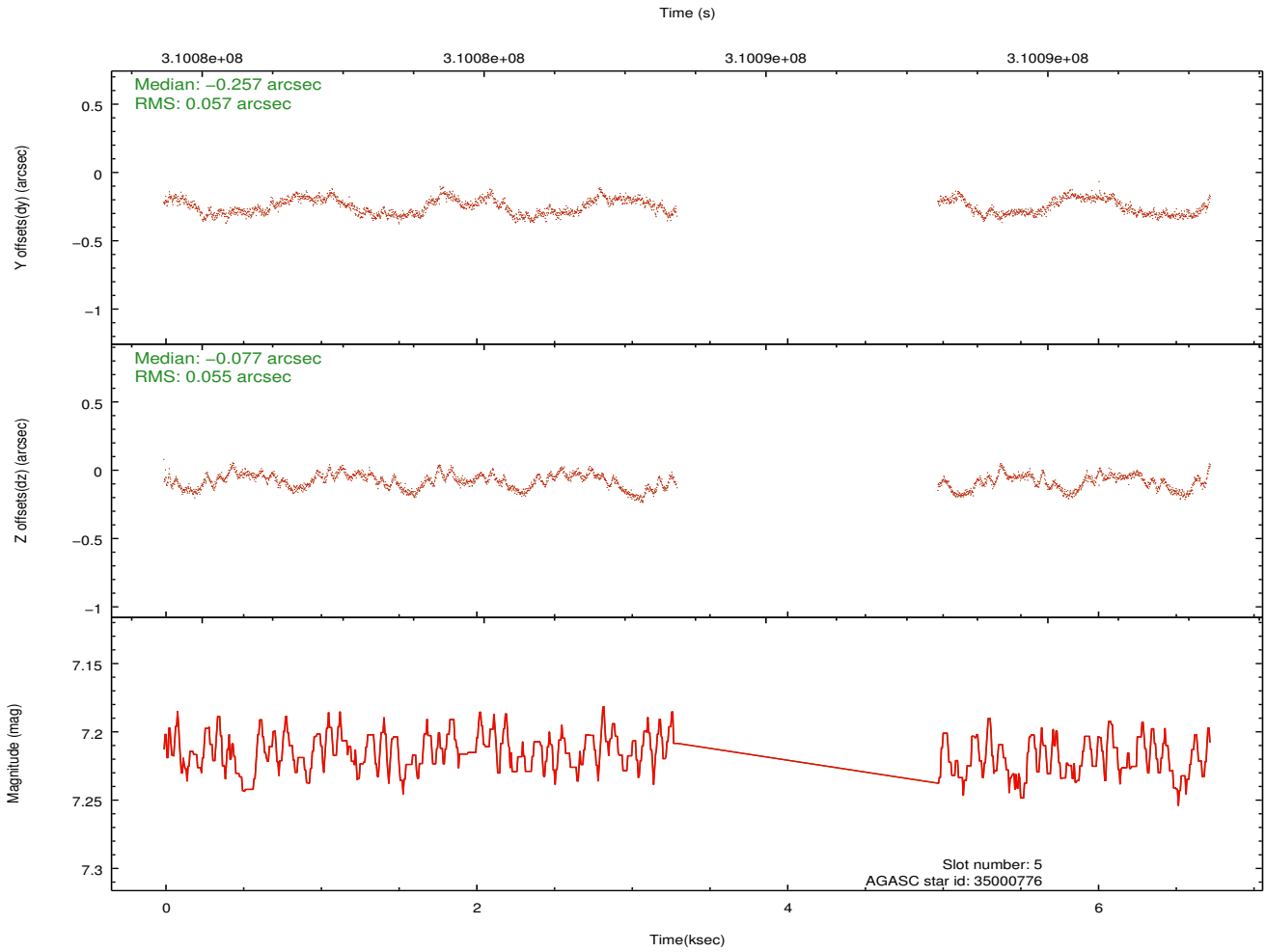
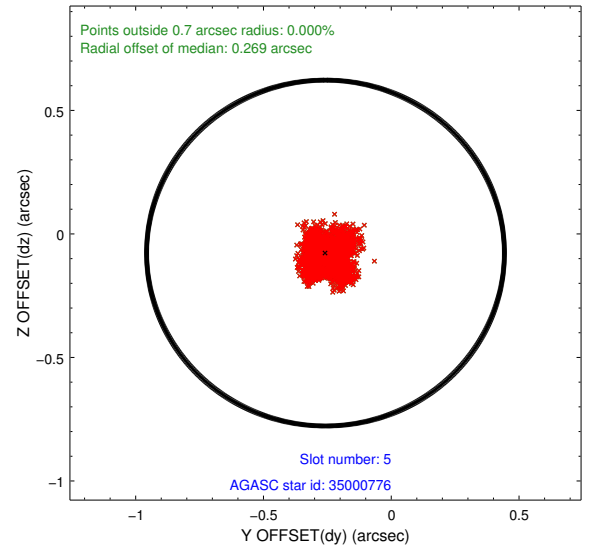
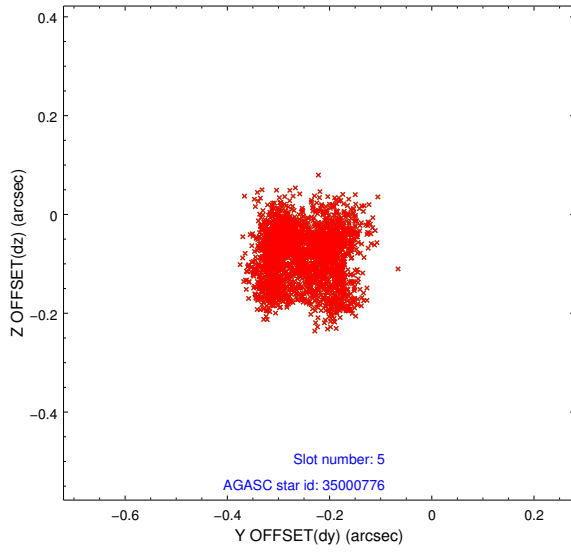
2.4.1 Slot 2



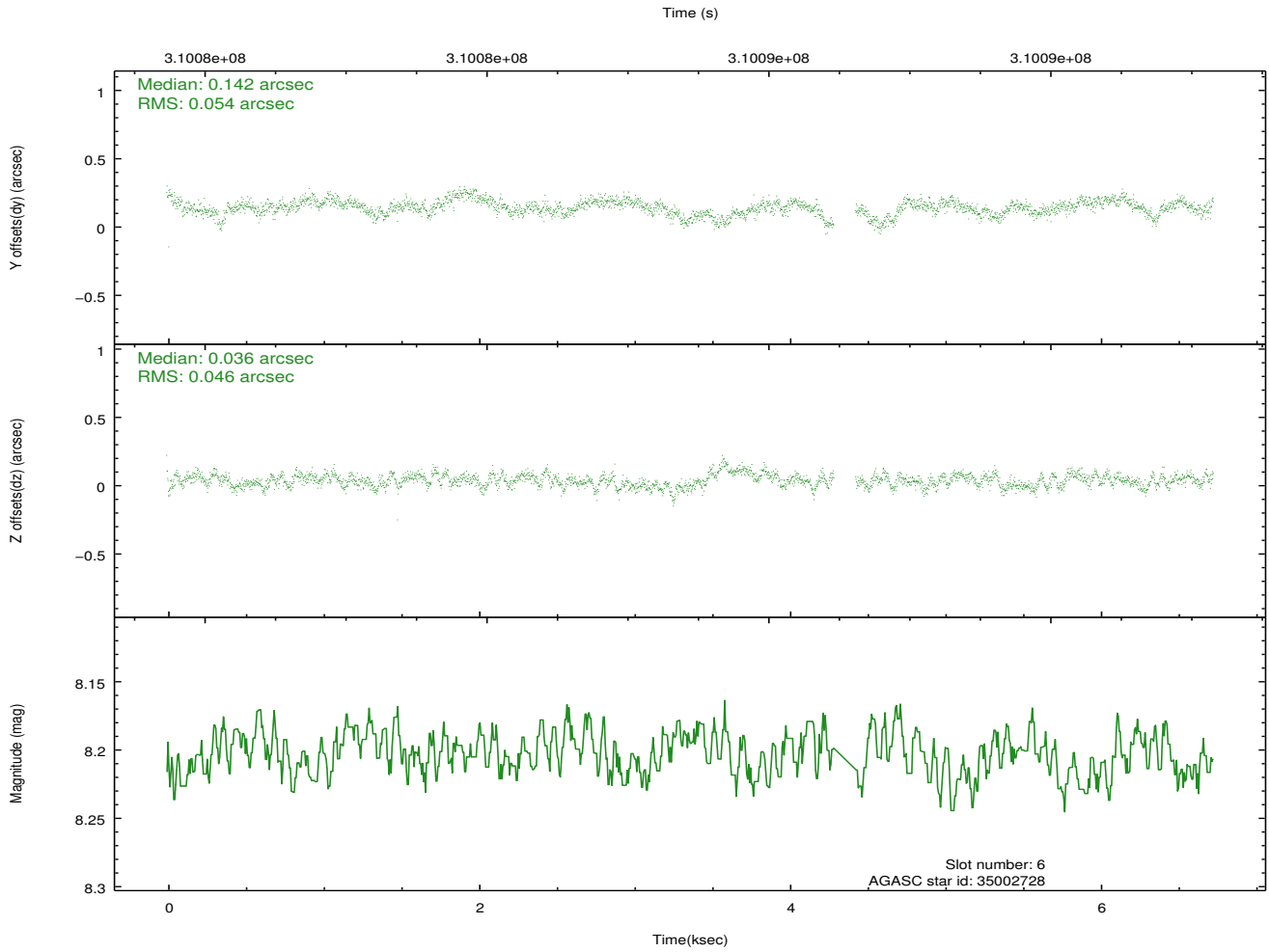
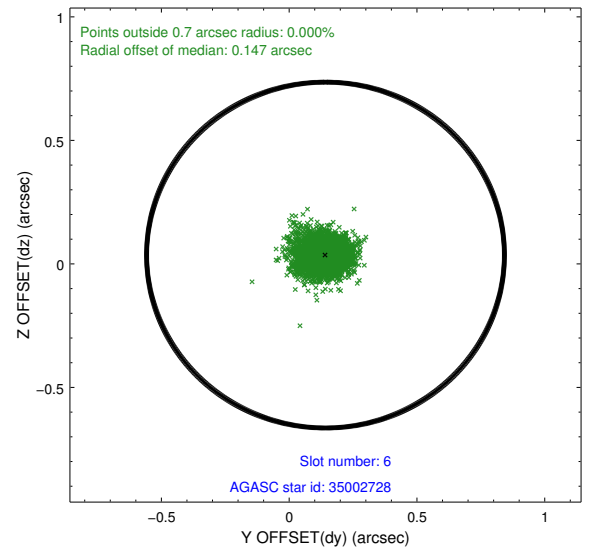
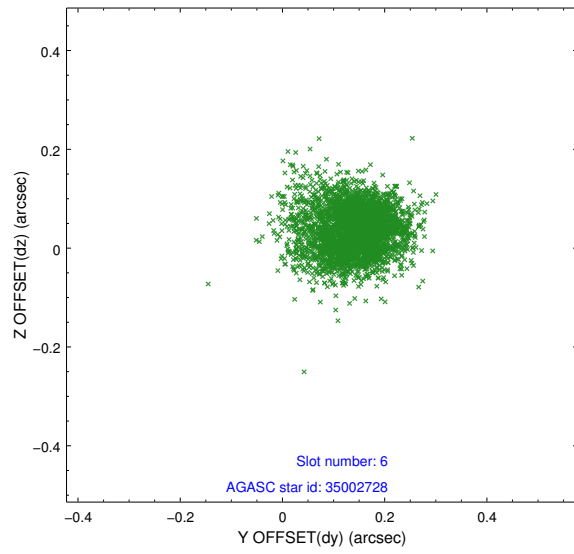
2.4.2 Slot 3



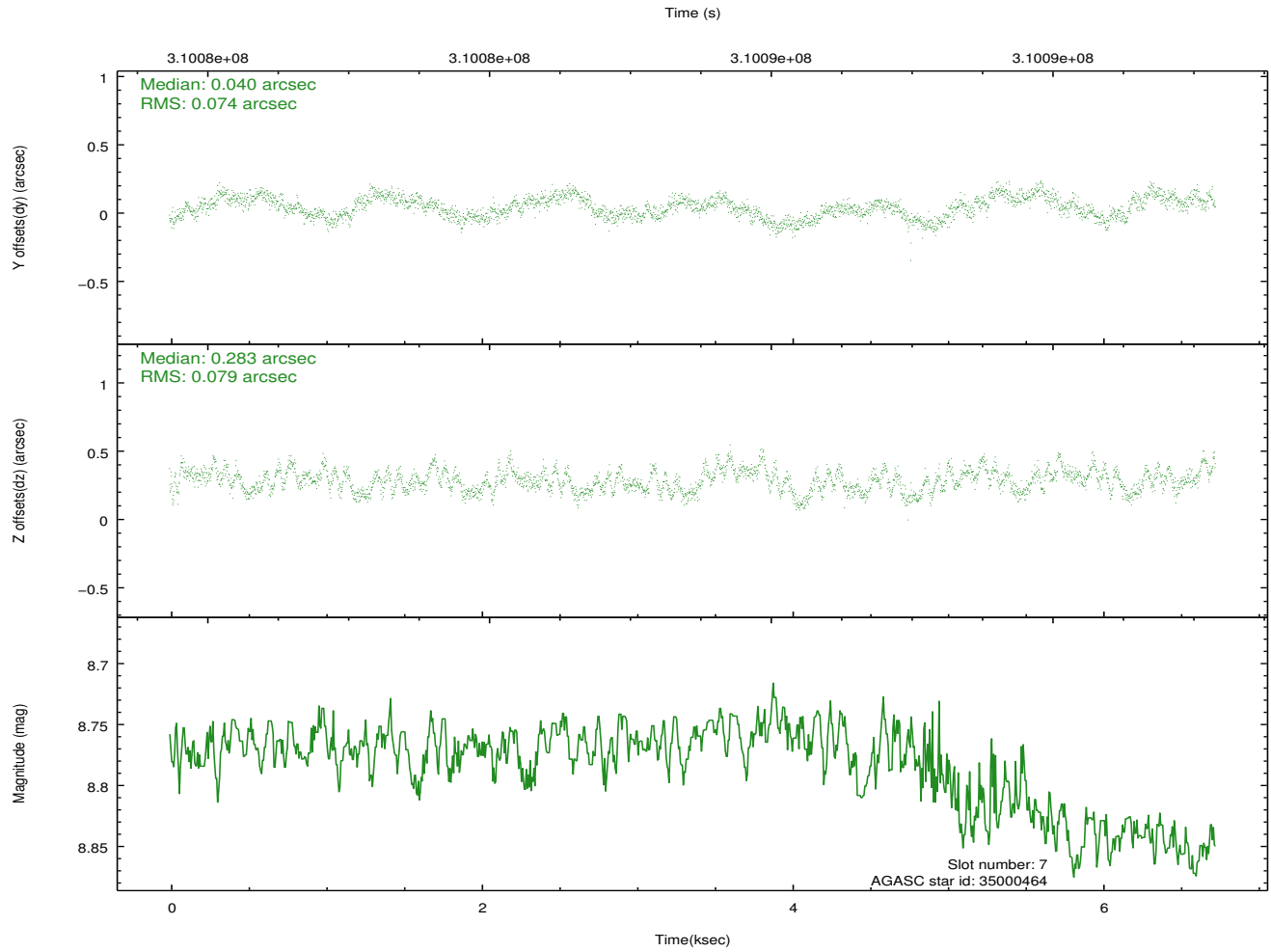
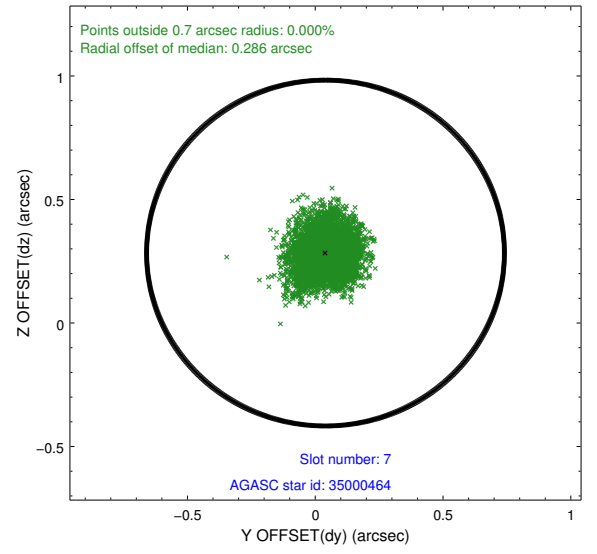
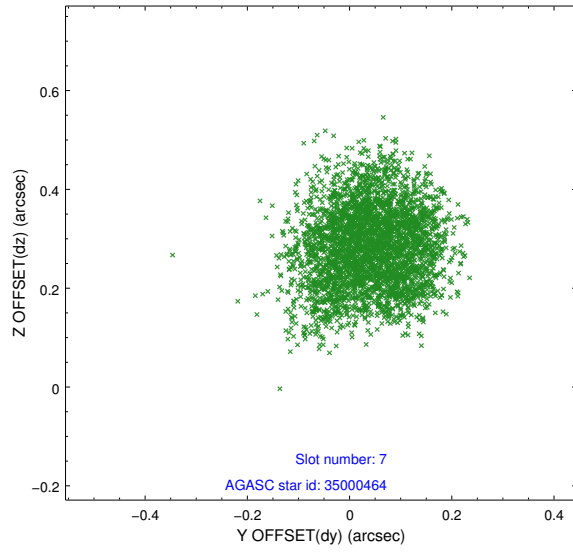
2.4.3 Slot 5



2.4.4 Slot 6

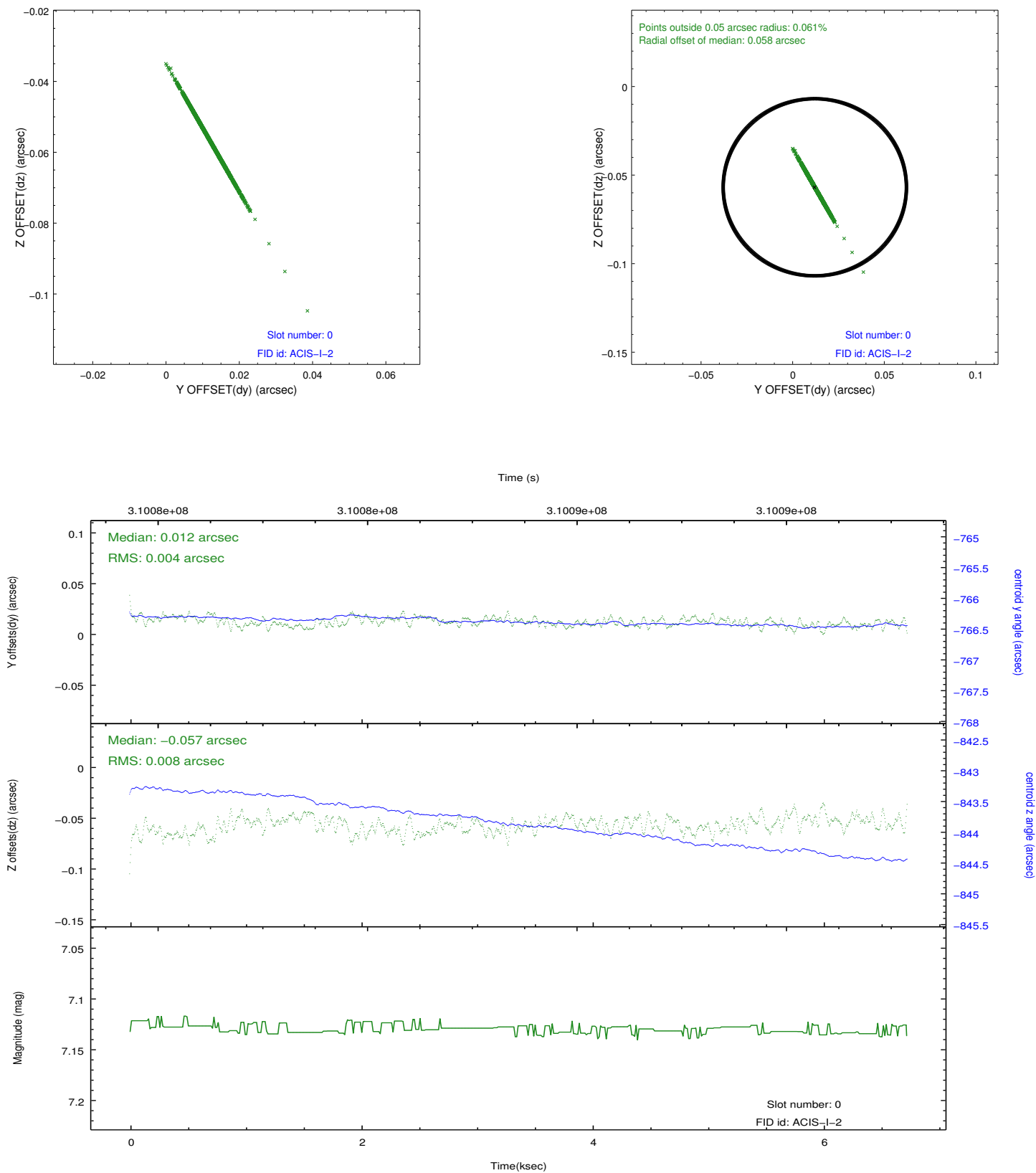


2.4.5 Slot 7

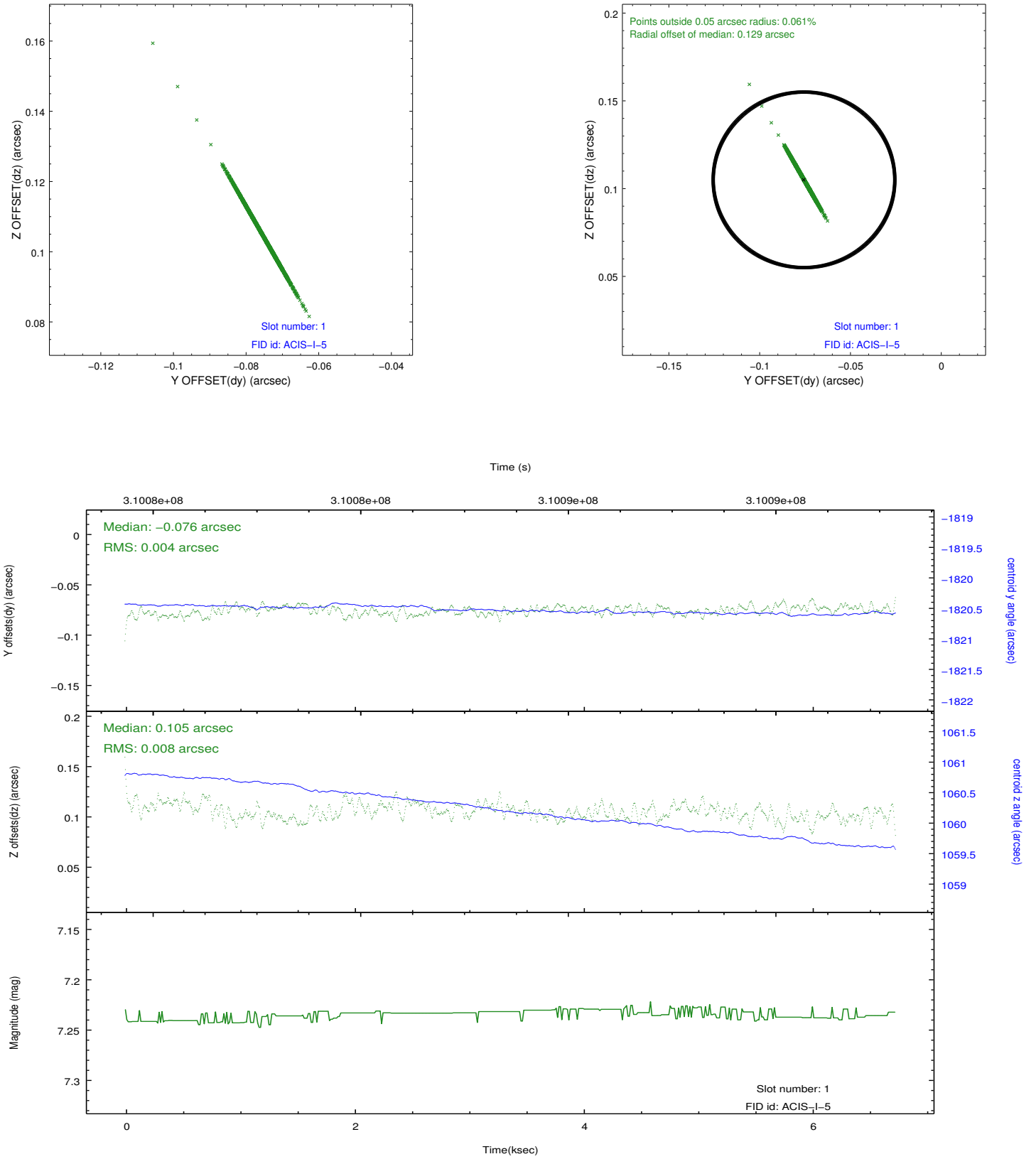


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



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	6.73200004

A.2 Comments

Window preference met.

Slot 4 was not utilized in this observation.