

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9747 - L2 Version 2
Chandra X-Ray Center

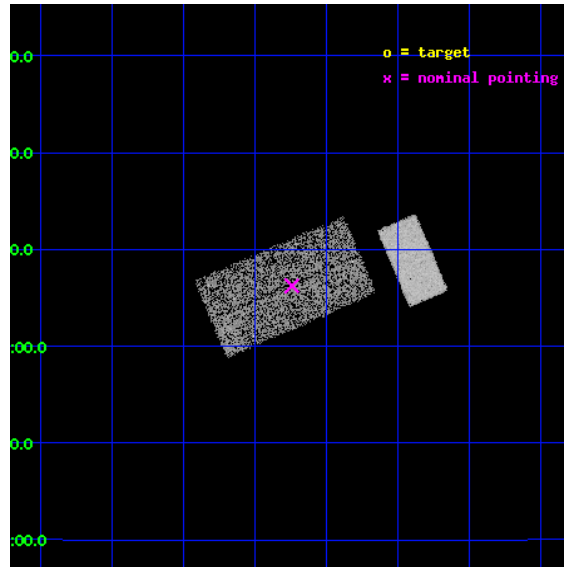
L2 Processing Date : May 3 2012

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1 Front

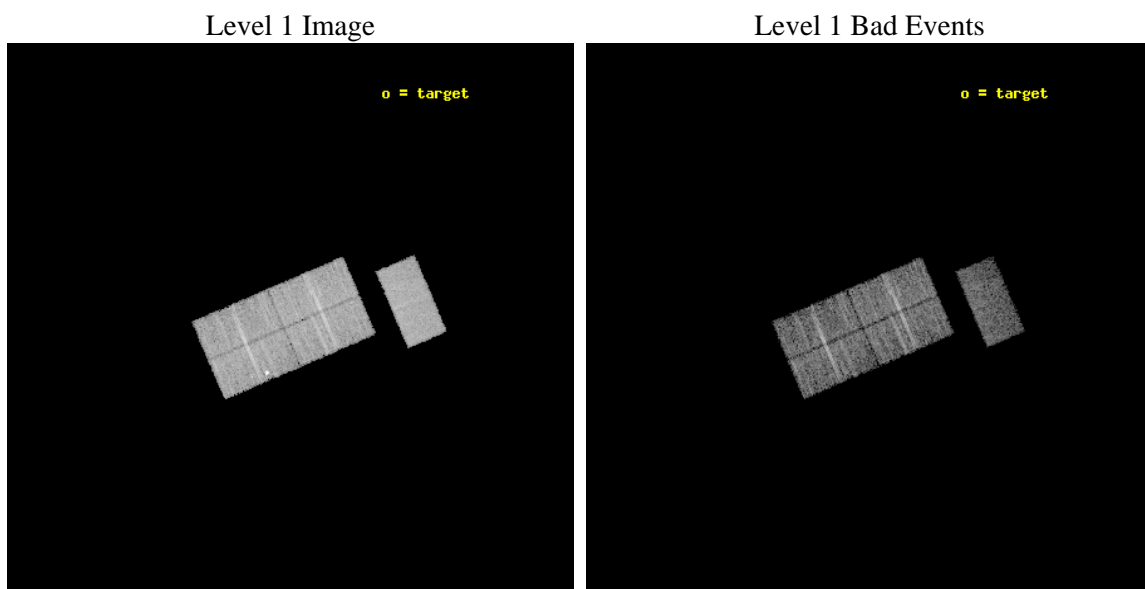
seq_num	100069	Sequence number
obs_id	9747	Observation id
title	Solar wind charge exchange induced X-rays at Venus during the Messenger flyby	Proposal title
observer	Dr. Konrad Dennerl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.733292	Observer's specified target RA [deg]
dec_targ	4.922889	Observer's specified target Dec [deg]
ra_nom	171.05997489845	Nominal RA [deg]
dec_nom	4.1040099771044	Nominal Dec [deg]
roll_nom	66.822366009975	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6890.4000455737	Sum of GTIs [s]
livetime	6736.8009831577	Livetime [s]
ontime0	6890.4000455737	Sum of GTIs [s]
ontime1	6890.4000455737	Sum of GTIs [s]
ontime2	6888.5590354204	Sum of GTIs [s]
ontime3	6890.4000455737	Sum of GTIs [s]
ontime7	6890.4000455737	Sum of GTIs [s]
l2events	24530	Number of level 2 events



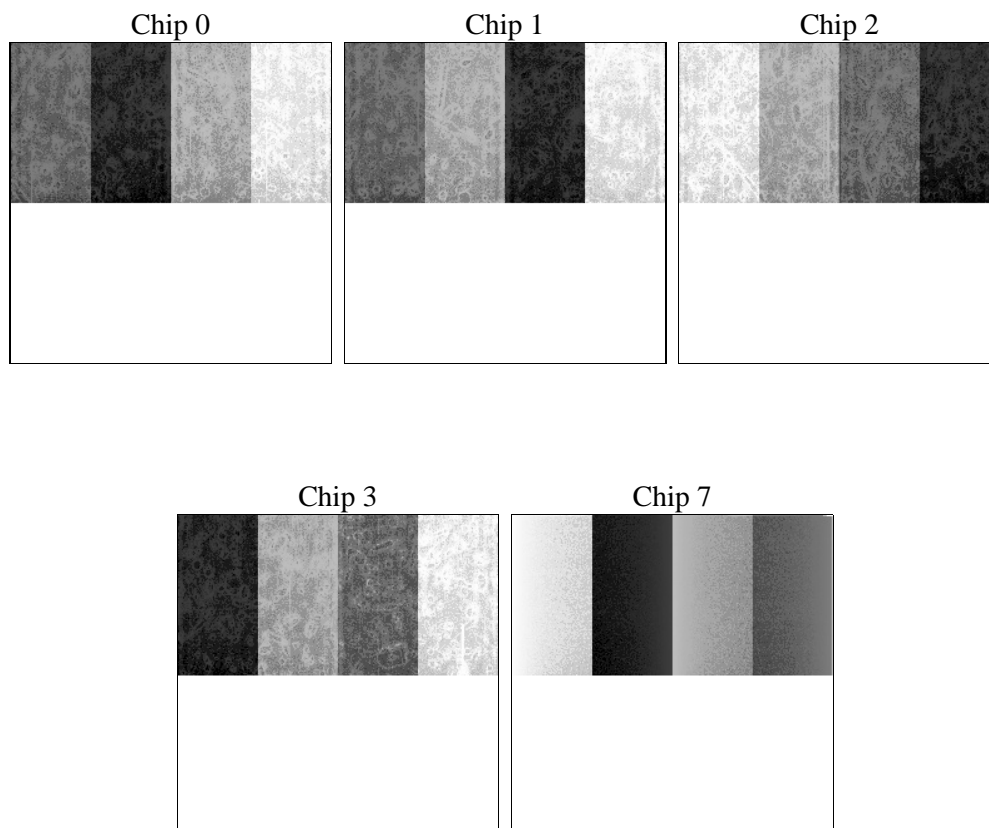
2 OBI

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	6890.4000455737	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	6890.4000455737	Sum of GTIs [s]
date	2012-05-03T14:49:00	Date and time of file creation	ontime1	6890.4000455737	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6888.5590354204	Sum of GTIs [s]
			ontime3	6890.4000455737	Sum of GTIs [s]
			ontime7	6890.4000455737	Sum of GTIs [s]
			l1events	164747	Number of level 1 events

2.1.4 Events

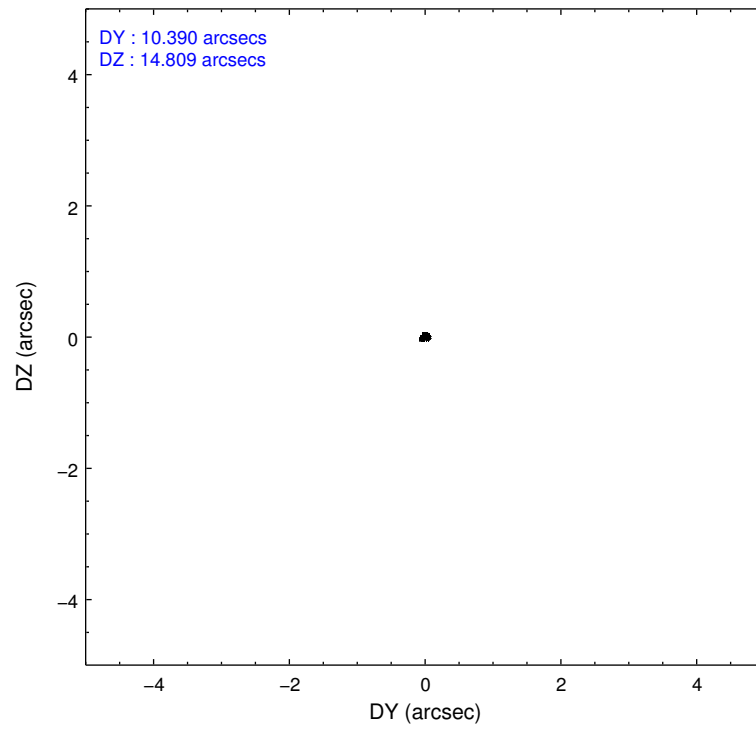
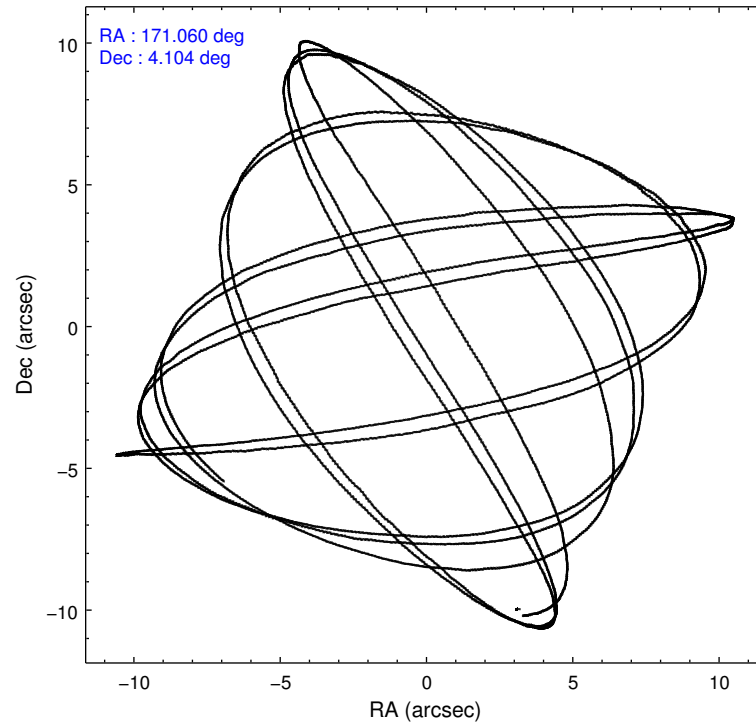
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	29872	32792	34929	32265	34889
rejected events	26977	28027	31836	29328	19808
rejected %	90%	85%	91%	90%	56%

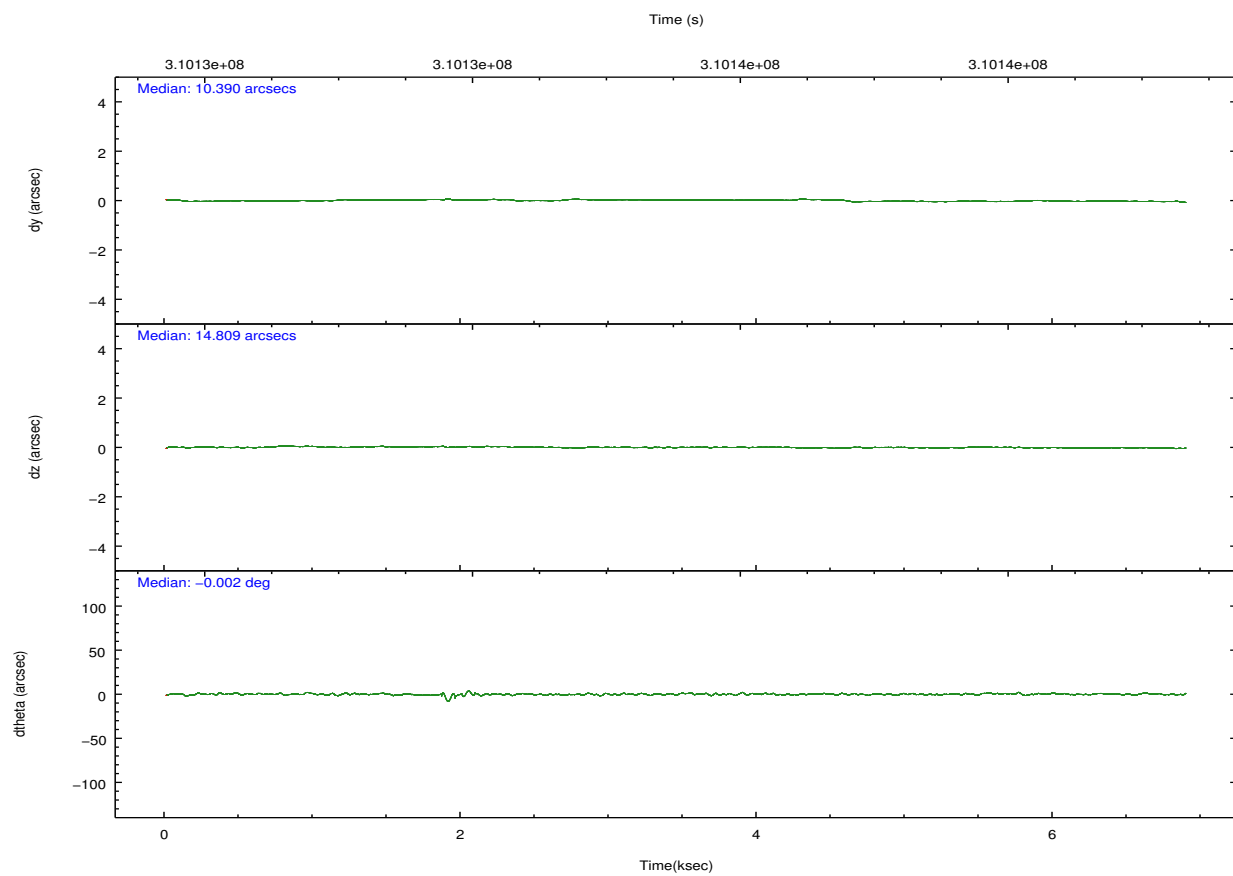
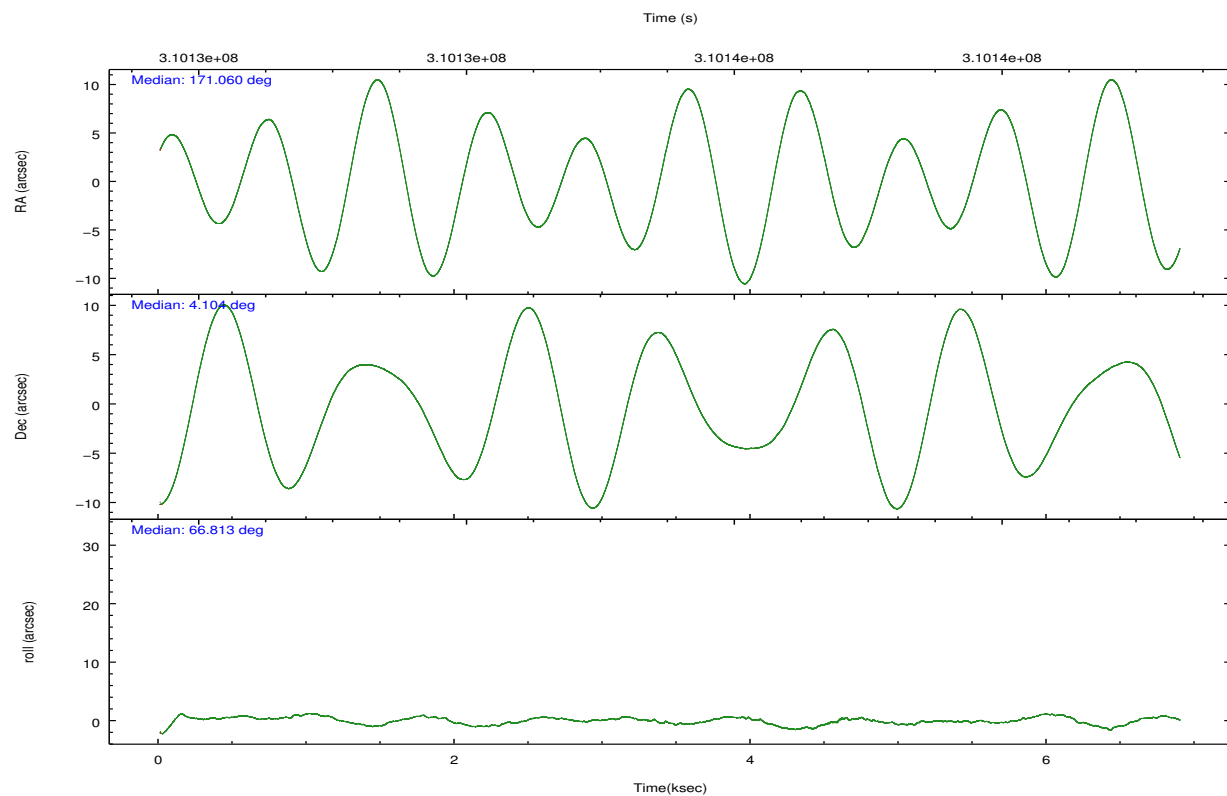
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1046	2765	1068	1030	1627
	3%	8%	3%	3%	4%
grade 1 events	28	18	20	24	67
	0%	0%	0%	0%	0%
grade 2 events	723	796	706	627	3334
	2%	2%	2%	1%	9%
grade 3 events	412	396	439	444	1566
	1%	1%	1%	1%	4%
grade 4 events	361	403	430	408	1509
	1%	1%	1%	1%	4%
grade 5 events	1090	1191	1039	1258	3838
	3%	3%	2%	3%	11%
grade 6 events	508	648	572	566	7781
	1%	1%	1%	1%	22%
grade 7 events	25704	26575	30655	27908	15167
	86%	81%	87%	86%	43%

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	171.063367	171.0599748984547	CCD I2 on	Y	Y
[deg] Pointing Dec	4.076681	4.104009977104366	CCD I3 on	Y	Y
[deg] Pointing Roll	66.613446	66.82236600997481	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)	310132269.184000	310131892.9169	On-chip summing requested	N	N
Observation start date	2007-10-30T11:50:04	2007-10-30T11:44:52	Subarray requested	CUSTOM	1/2
[s] Observation end time (MET)	310138969.184000	310139102.76725	Subarray start row	513	513
Observation end date	2007-10-30T13:41:44	2007-10-30T13:45:02	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



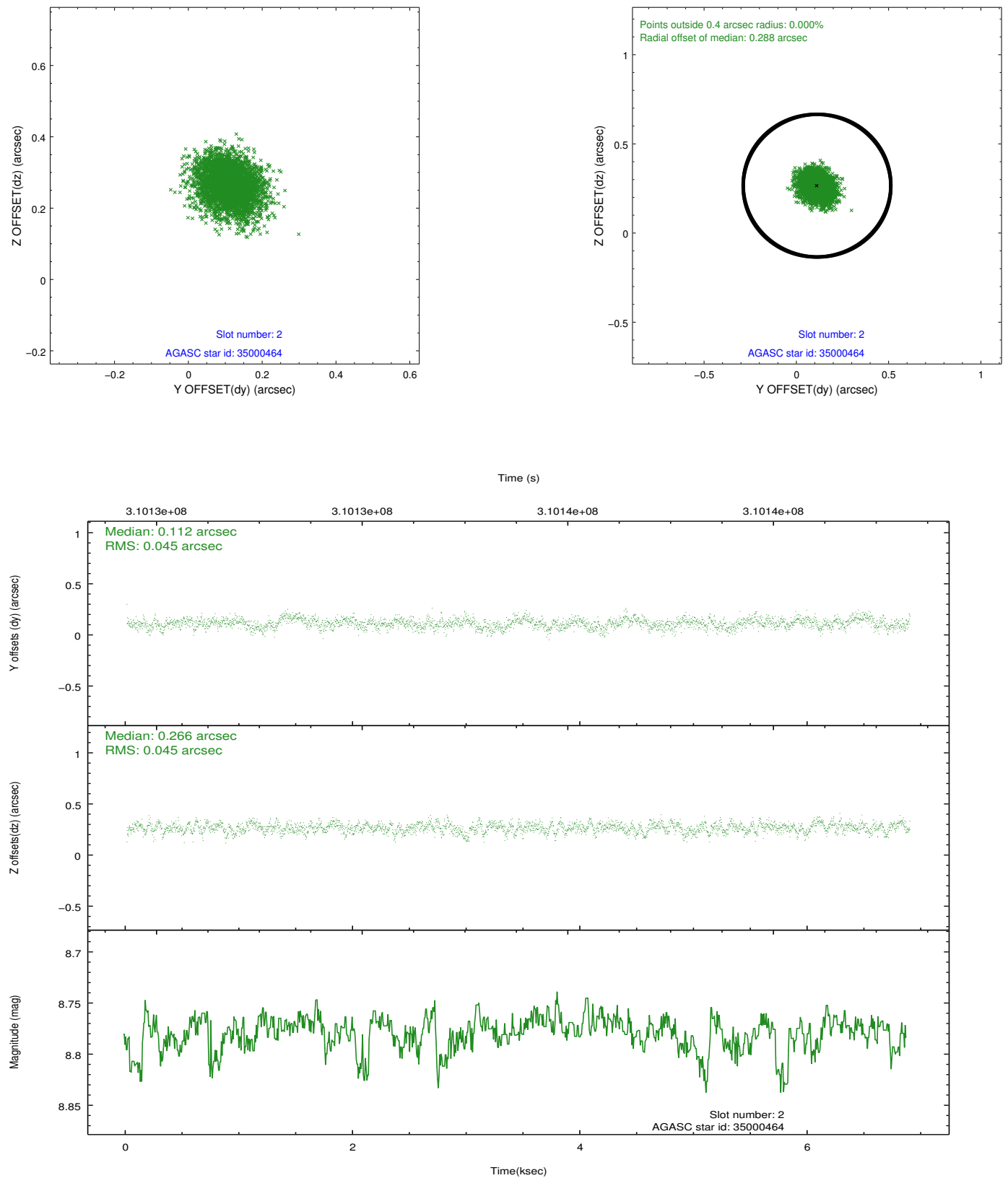


Slot Statistics

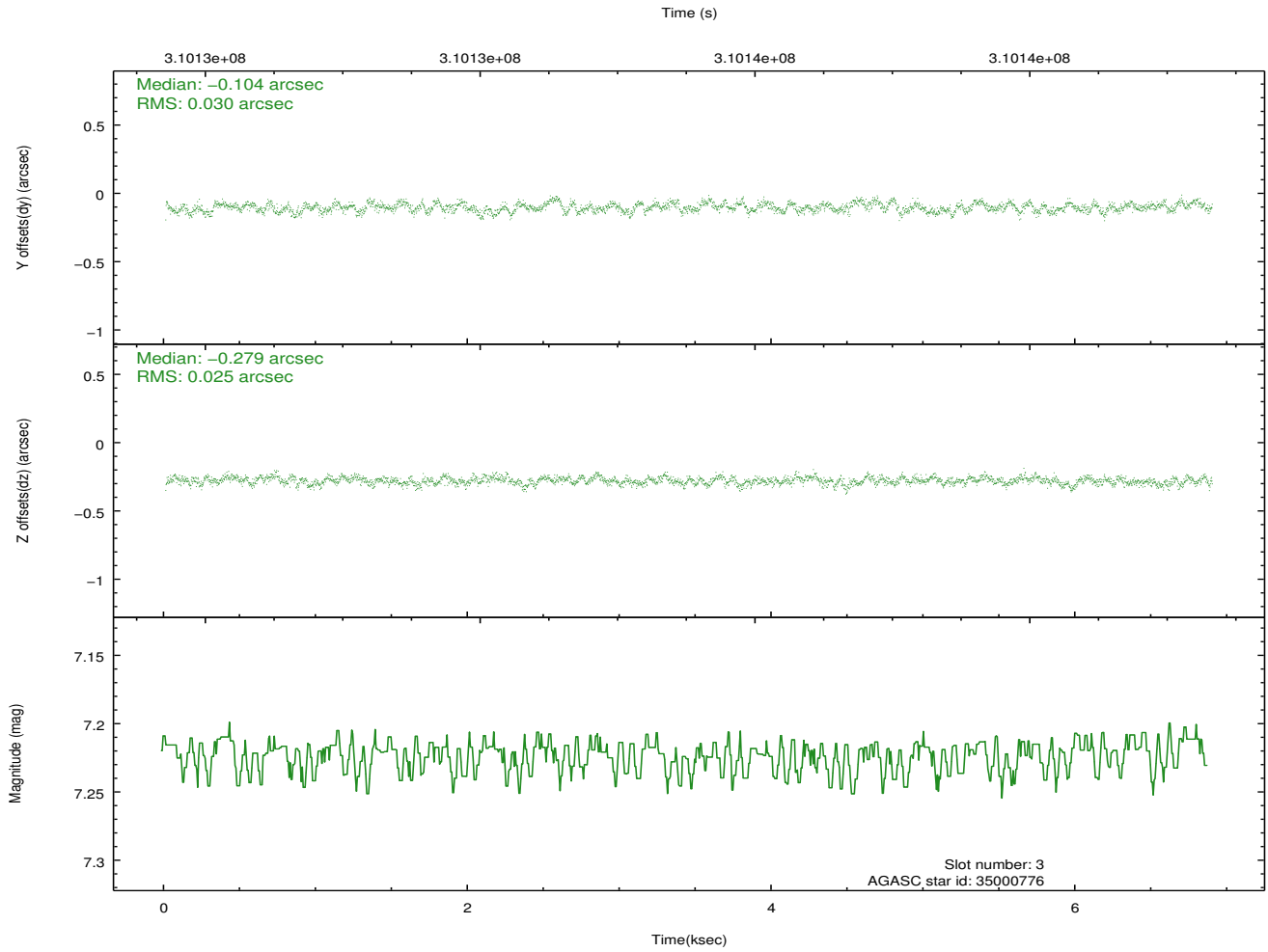
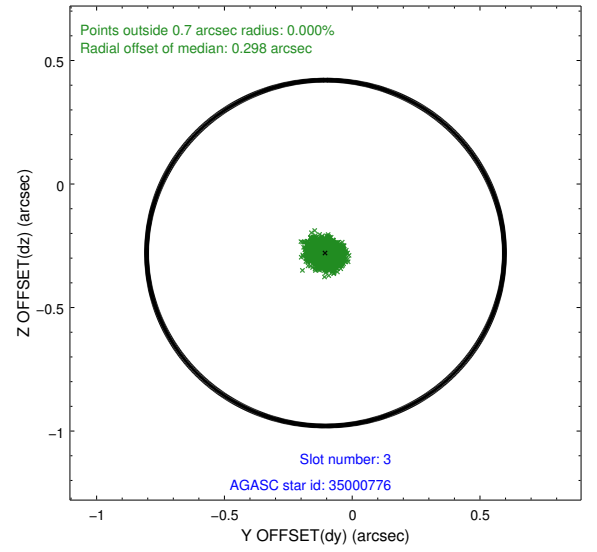
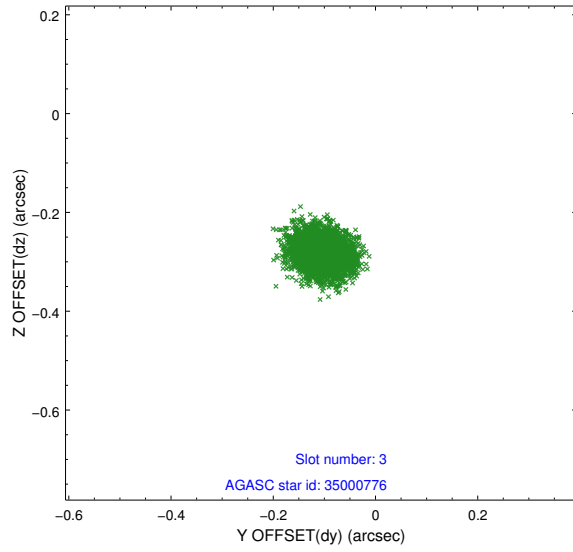
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1681	0.010	-0.053	0.007	0.014	0.000000	0.000000	-764.97	-844.83
1	FID	ACIS-I-5	7.23	1680	-0.073	0.101	0.007	0.014	0.000000	0.000000	-1819.54	1058.74
2	GUIDE	35000464	8.78	3361	0.112	0.266	0.067	0.111	170.965623	3.618933	-1652.91	-331.04
3	GUIDE	35000776	7.22	3362	-0.104	-0.279	0.043	0.068	170.371940	3.937464	-1445.68	2080.47
4	GUIDE	35002728	8.19	3361	0.082	-0.039	0.059	0.096	170.760736	4.138149	-228.66	1086.94
5	GUIDE	35005552	7.12	3362	-0.007	0.185	0.053	0.085	171.414379	3.301138	-2061.80	-2265.63
6	GUIDE	35005744	6.62	3362	-0.021	0.133	0.049	0.092	171.458567	3.860108	-152.73	-1612.10
7	GUIDE	34998088	8.26	3360	-0.071	-0.270	0.077	0.121	170.391115	4.208300	-523.06	2403.75

2.4 Star Slots

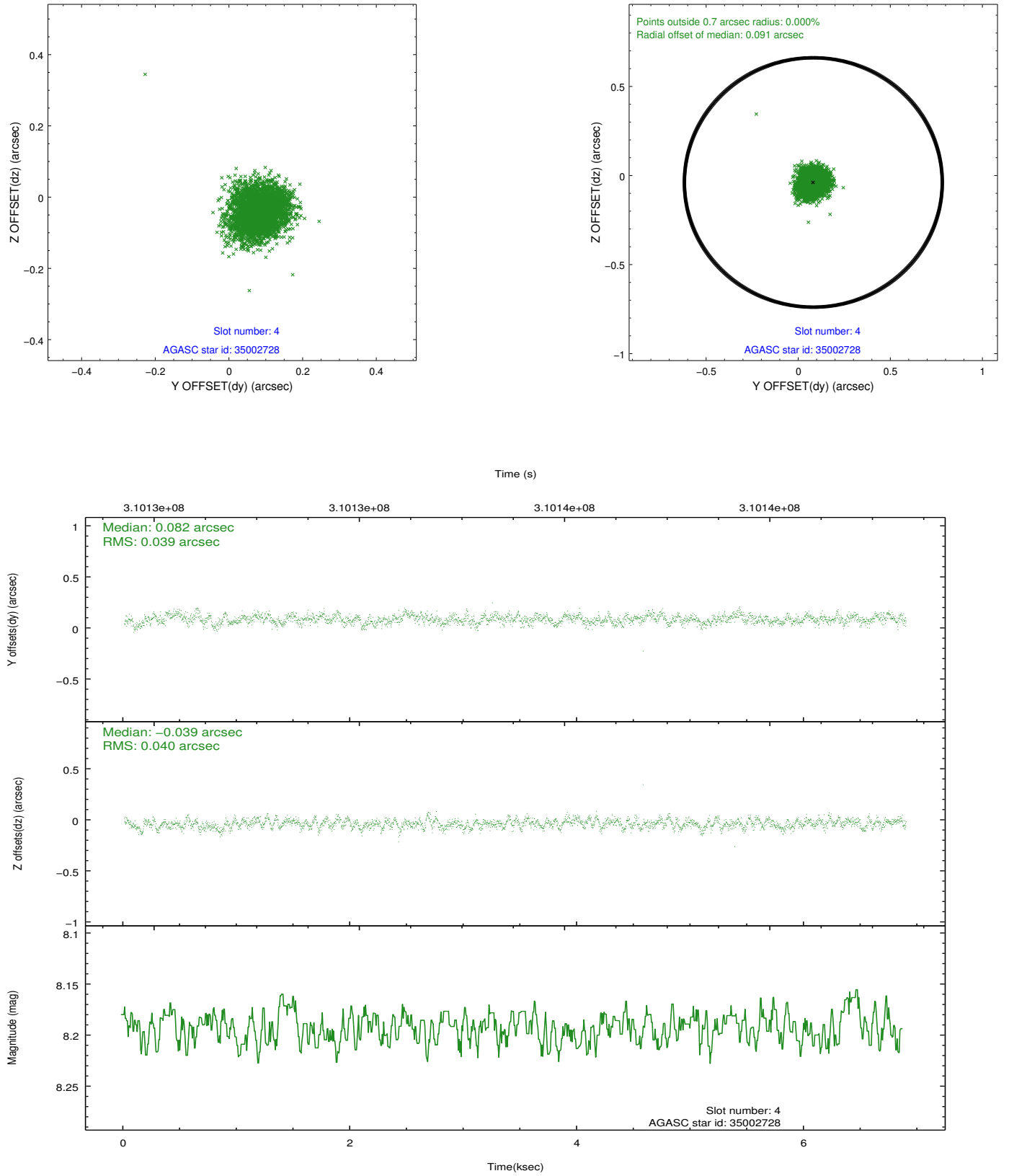
2.4.1 Slot 2



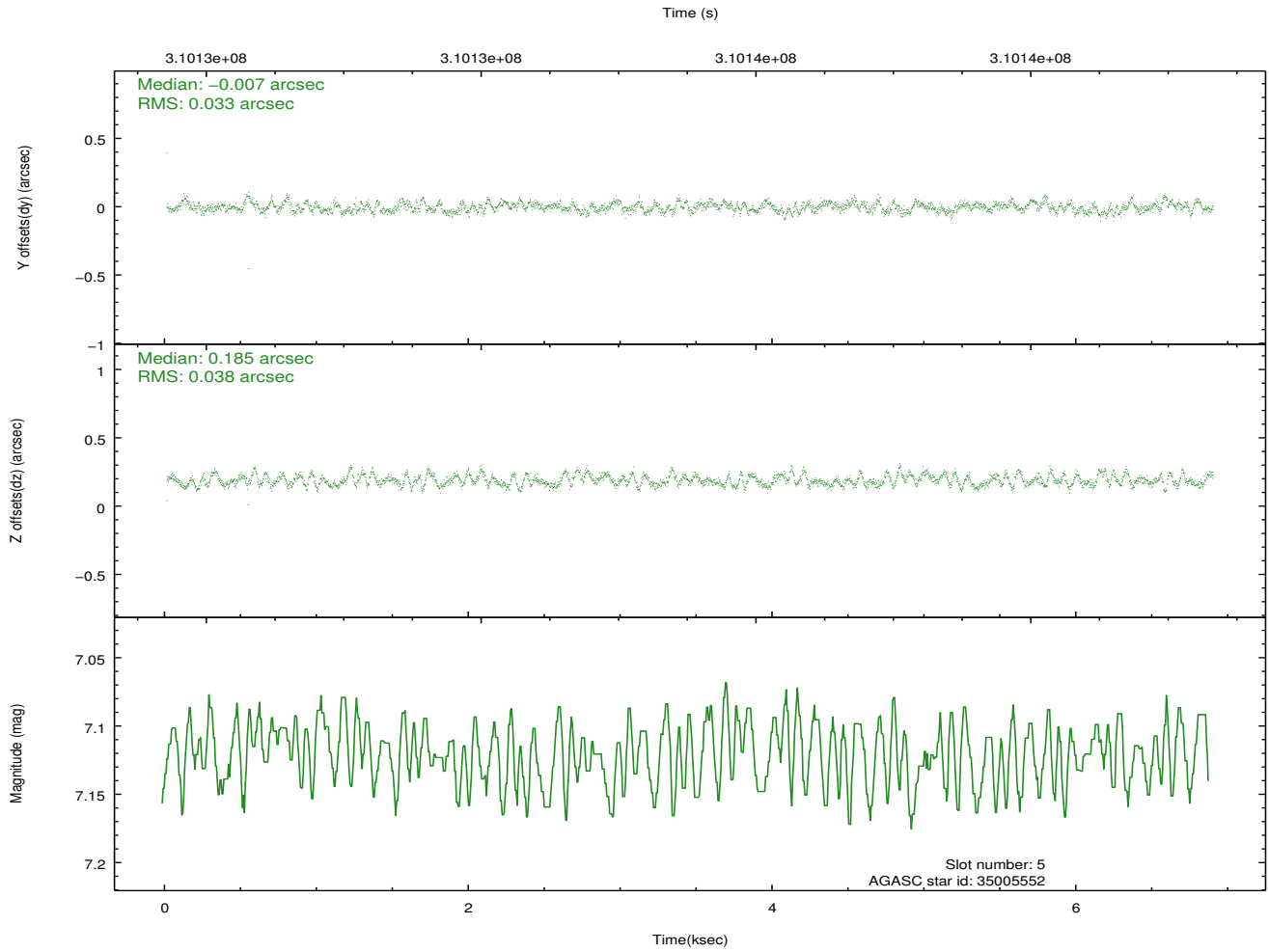
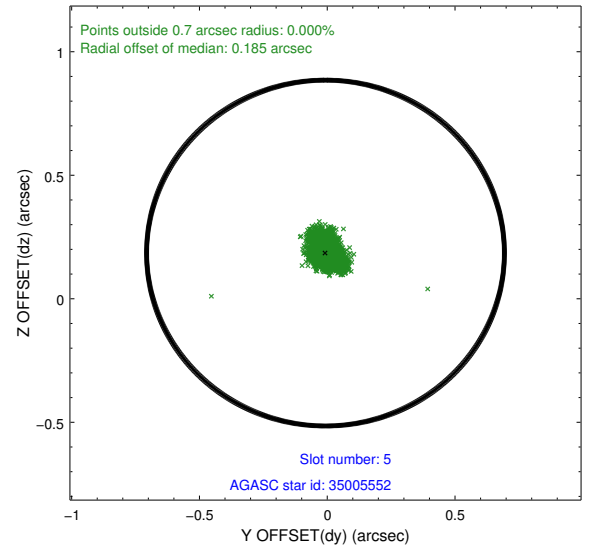
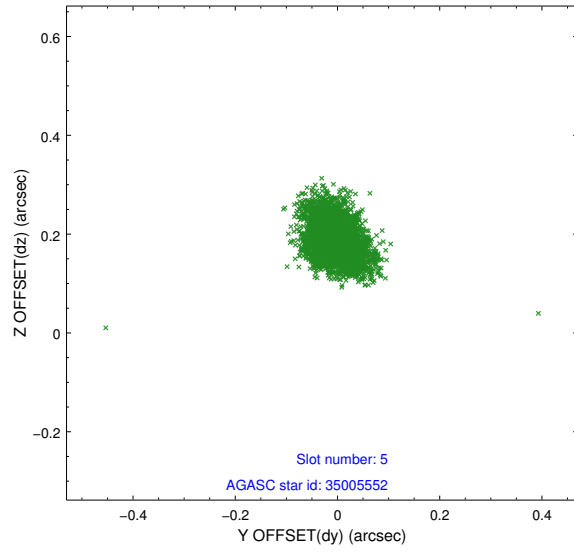
2.4.2 Slot 3



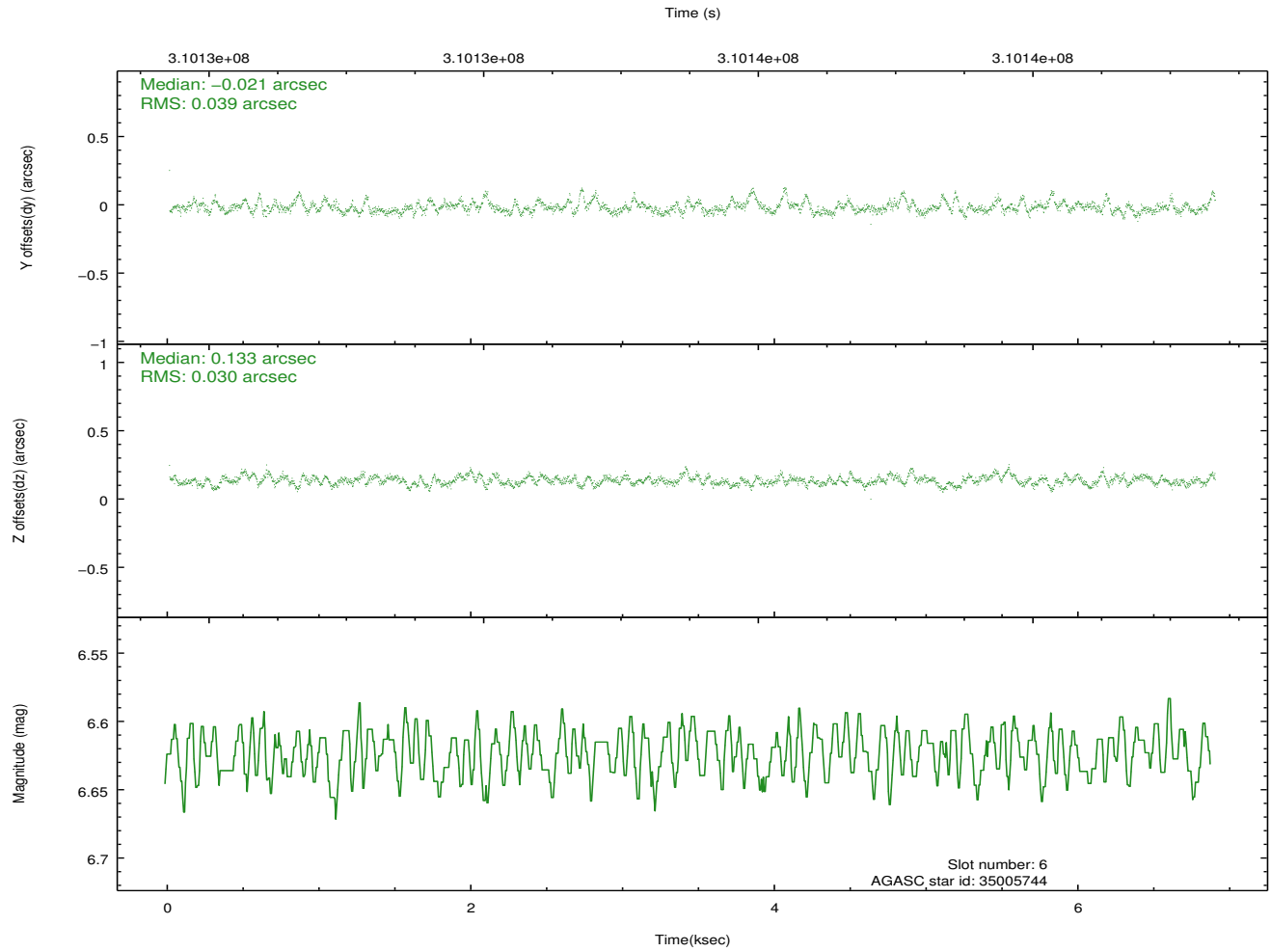
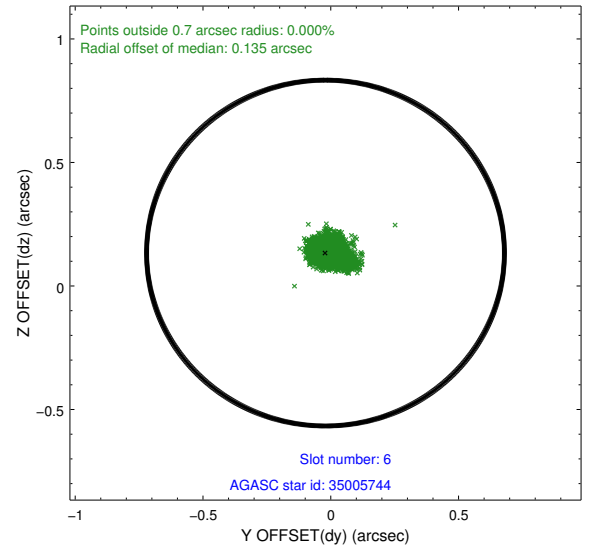
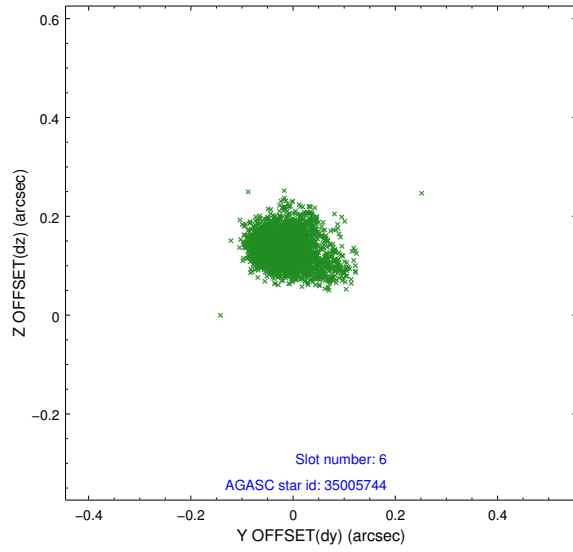
2.4.3 Slot 4



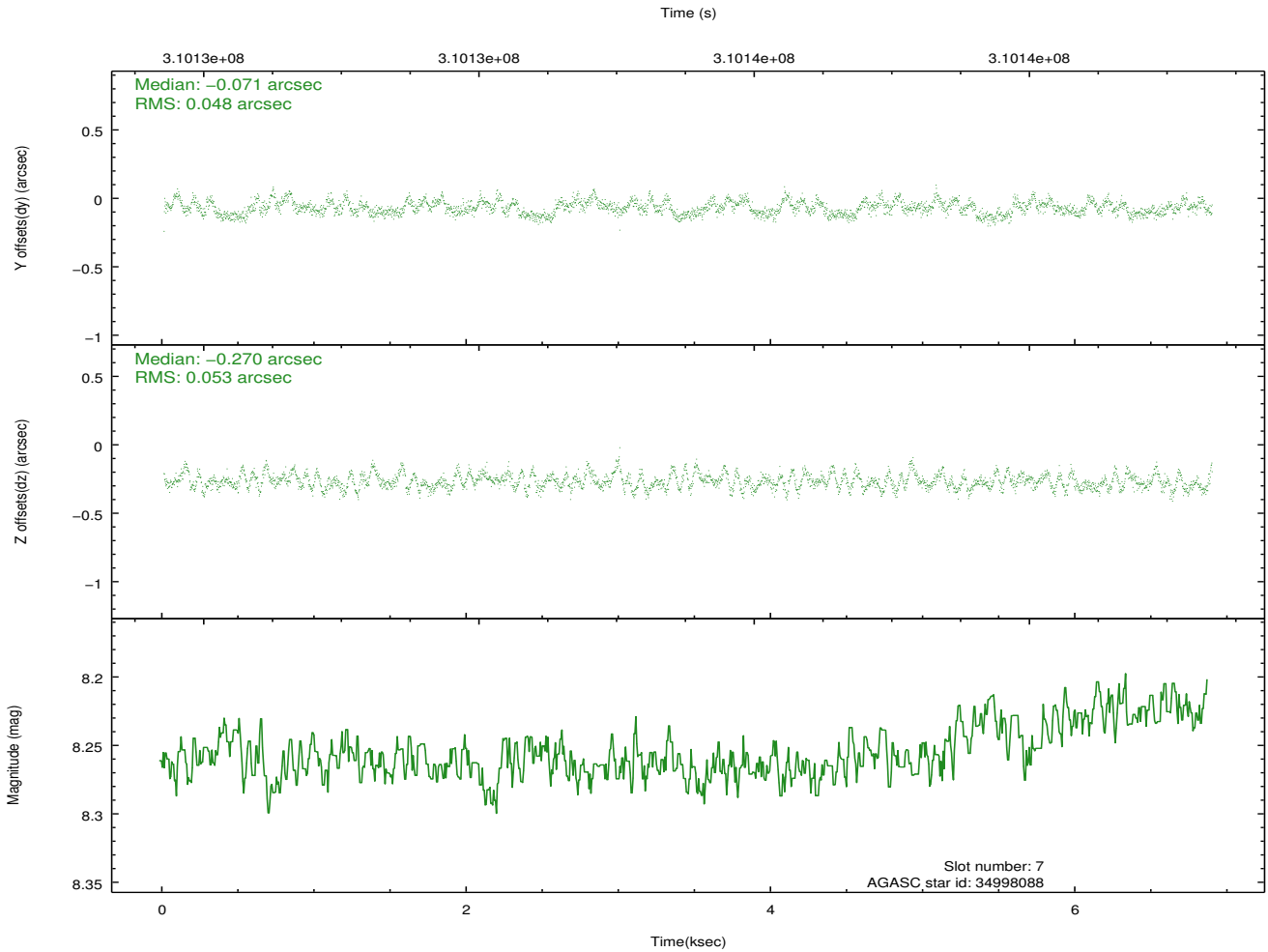
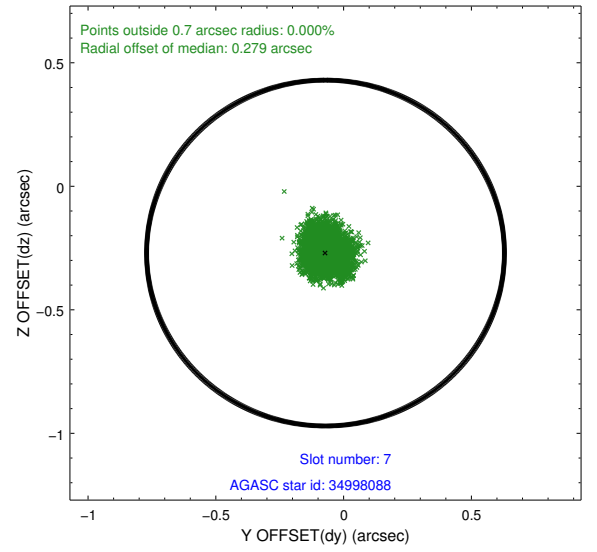
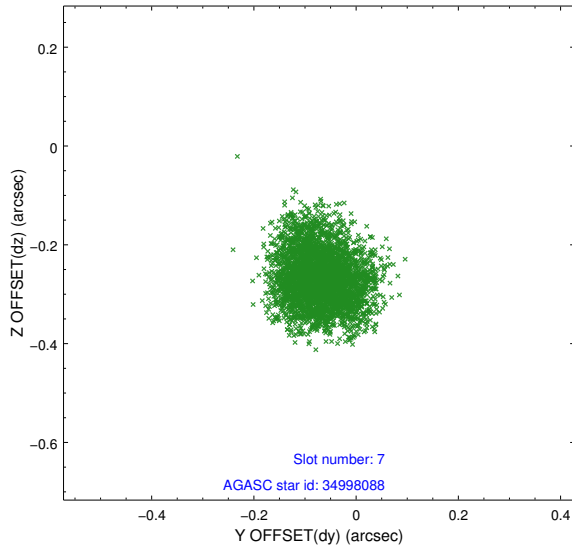
2.4.4 Slot 5



2.4.5 Slot 6

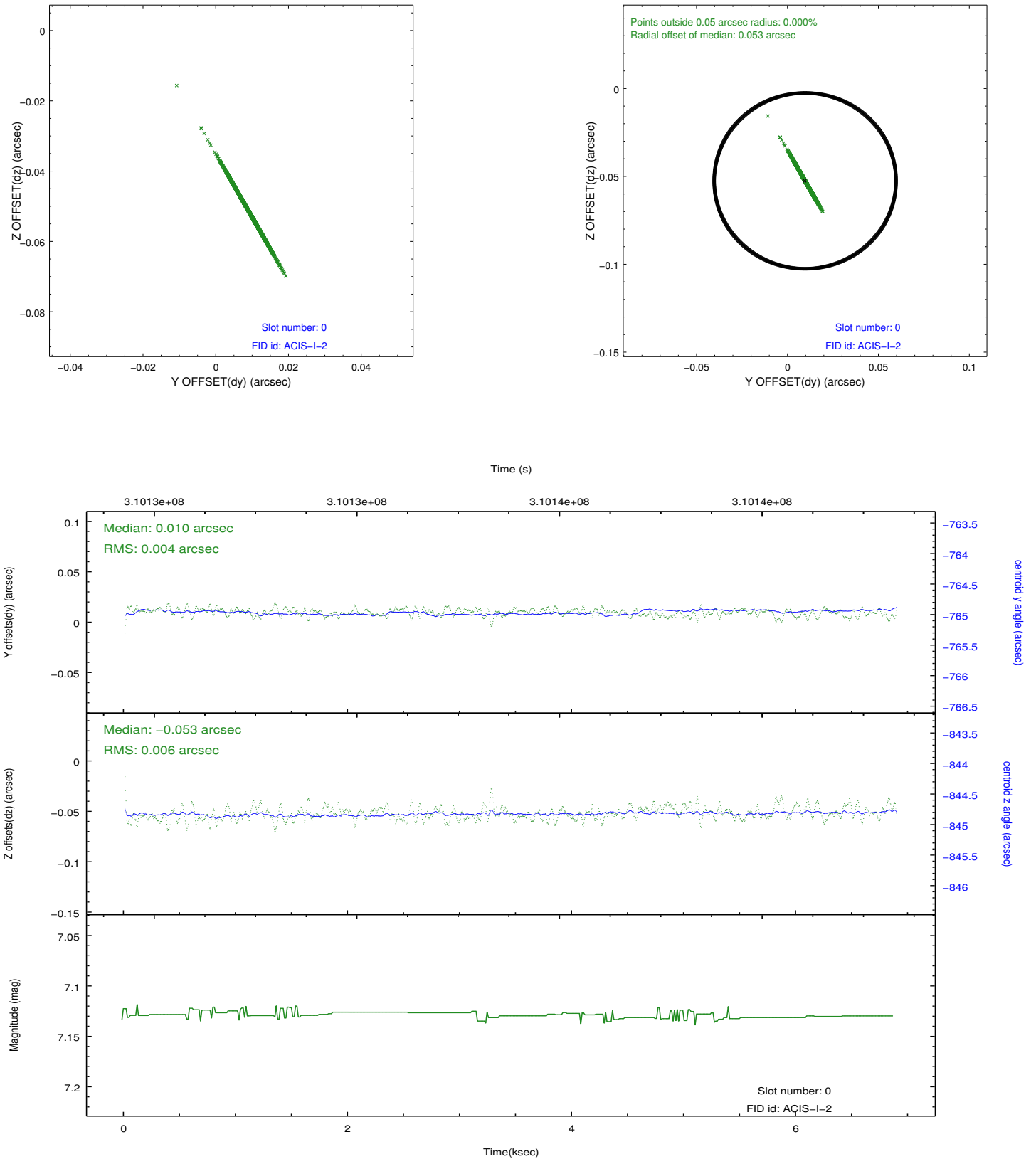


2.4.6 Slot 7

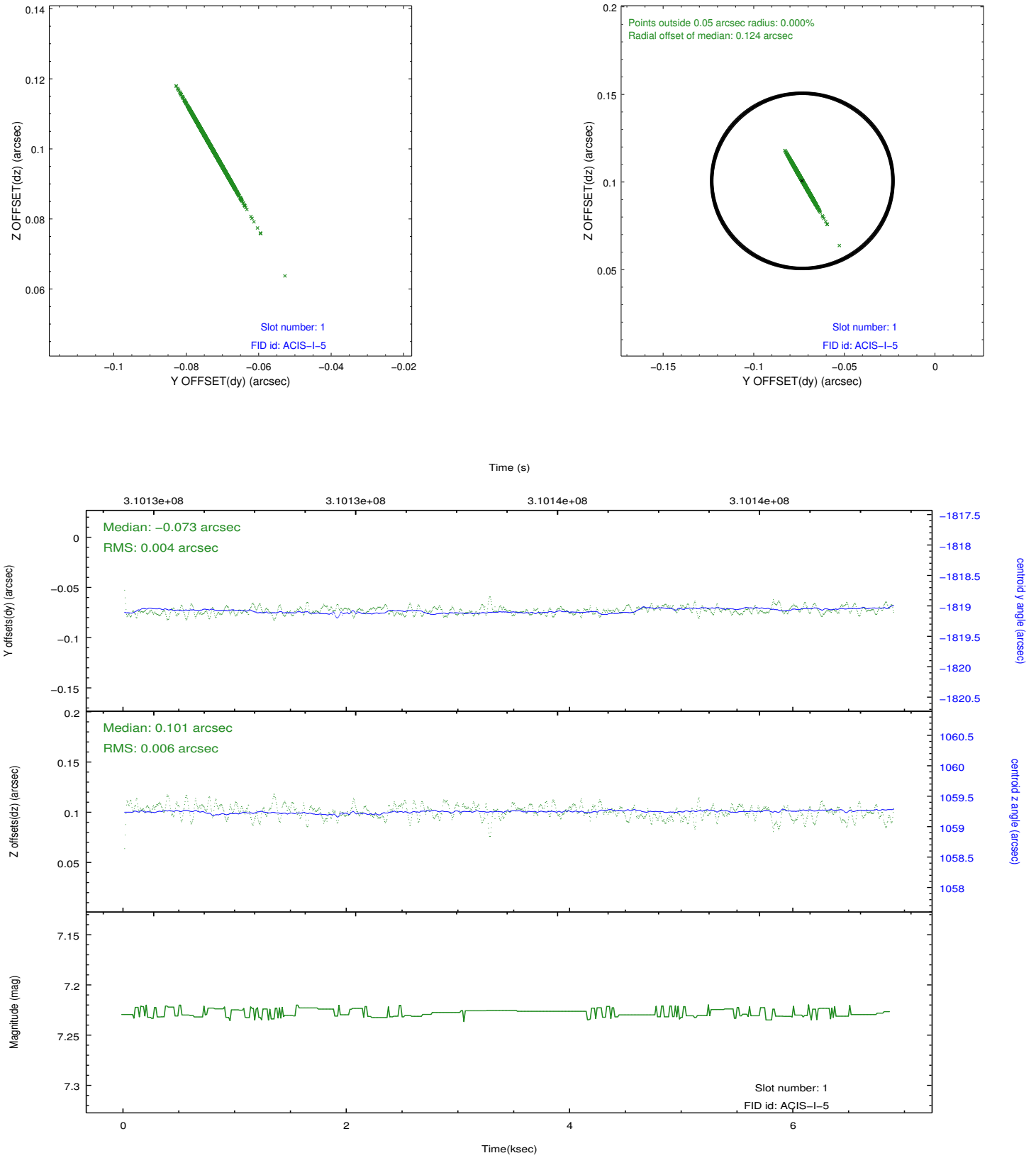


2.5 FID Slots

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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.89040004

A.2 Comments

Window preference met.