

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9746 - L2 Version 2
Chandra X-Ray Center

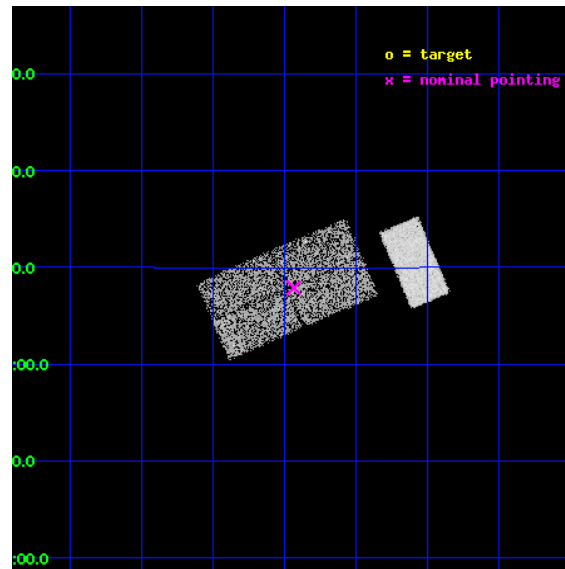
L2 Processing Date : May 3 2012

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1 Front

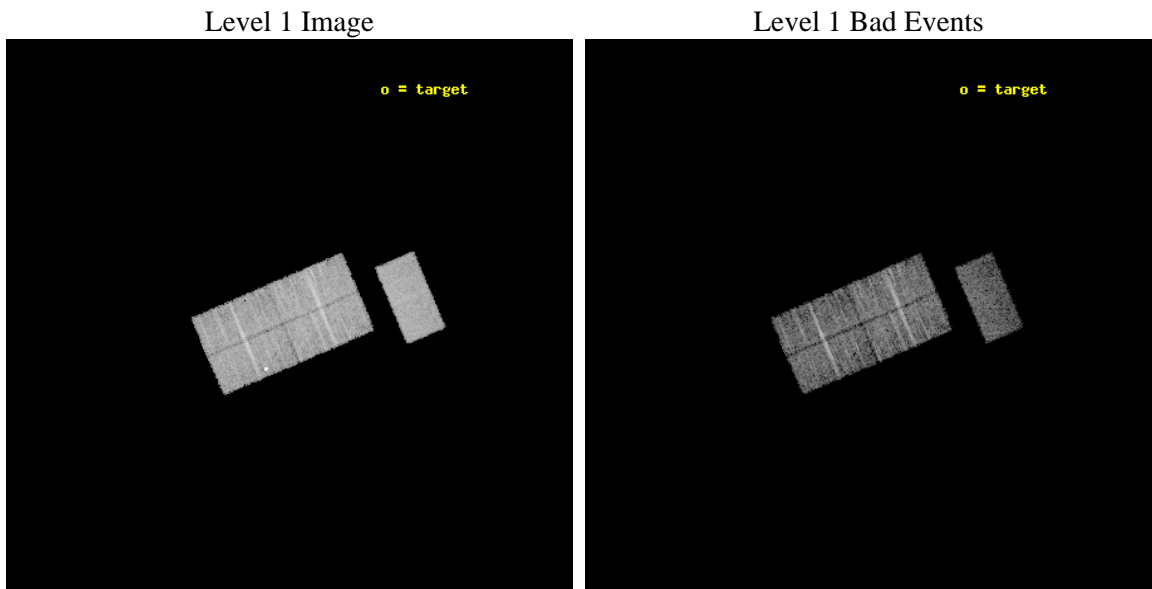
seq_num	100069	Sequence number
obs_id	9746	Observation id
title	Solar wind charge exchange induced X-rays at Venus during the Messenger flyby	Proposal title
observer	Dr. Konrad Dennerl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.733292	Observer's specified target RA [deg]
dec_targ	4.922889	Observer's specified target Dec [deg]
ra_nom	170.98332001338	Nominal RA [deg]
dec_nom	4.131655271811	Nominal Dec [deg]
roll_nom	66.835133052159	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6883.200045526	Sum of GTIs [s]
livetime	6729.7614836977	Livetime [s]
ontime0	6883.200045526	Sum of GTIs [s]
ontime1	6883.200045526	Sum of GTIs [s]
ontime2	6883.200045526	Sum of GTIs [s]
ontime3	6883.200045526	Sum of GTIs [s]
ontime7	6883.200045526	Sum of GTIs [s]
l2events	23942	Number of level 2 events



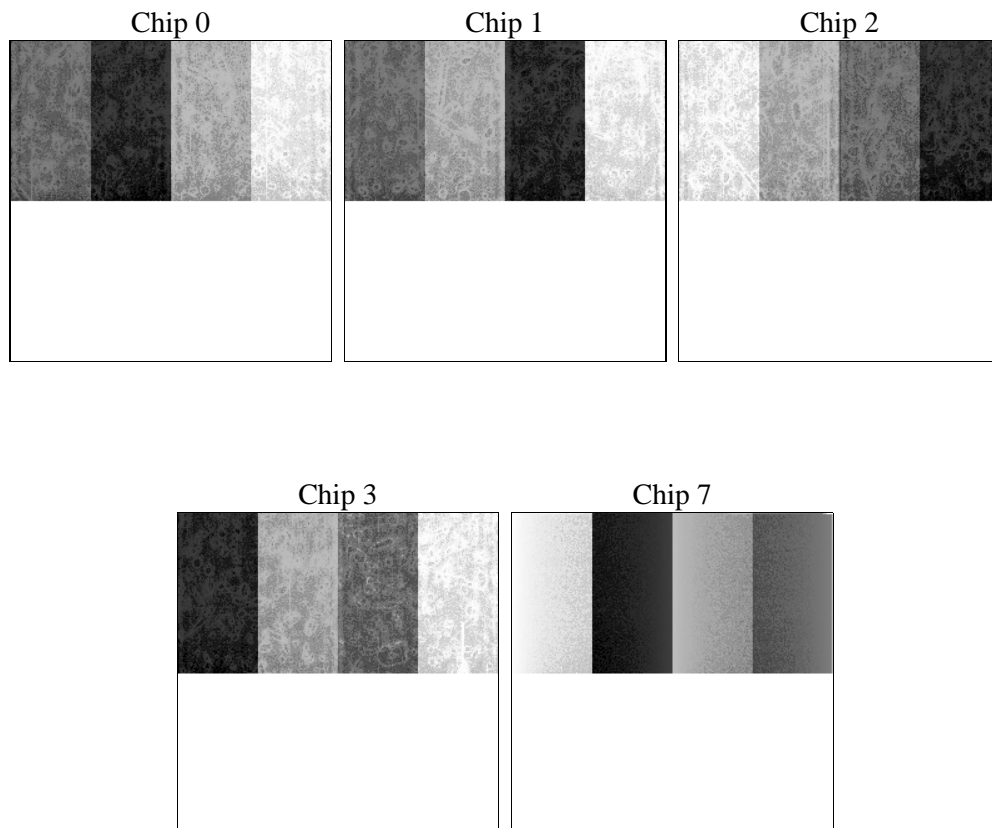
2 OBI

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	6883.200045526	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	6883.200045526	Sum of GTIs [s]
date	2012-05-03T15:09:26	Date and time of file creation	ontime1	6883.200045526	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6883.200045526	Sum of GTIs [s]
			ontime3	6883.200045526	Sum of GTIs [s]
			ontime7	6883.200045526	Sum of GTIs [s]
			l1events	161516	Number of level 1 events

2.1.4 Events

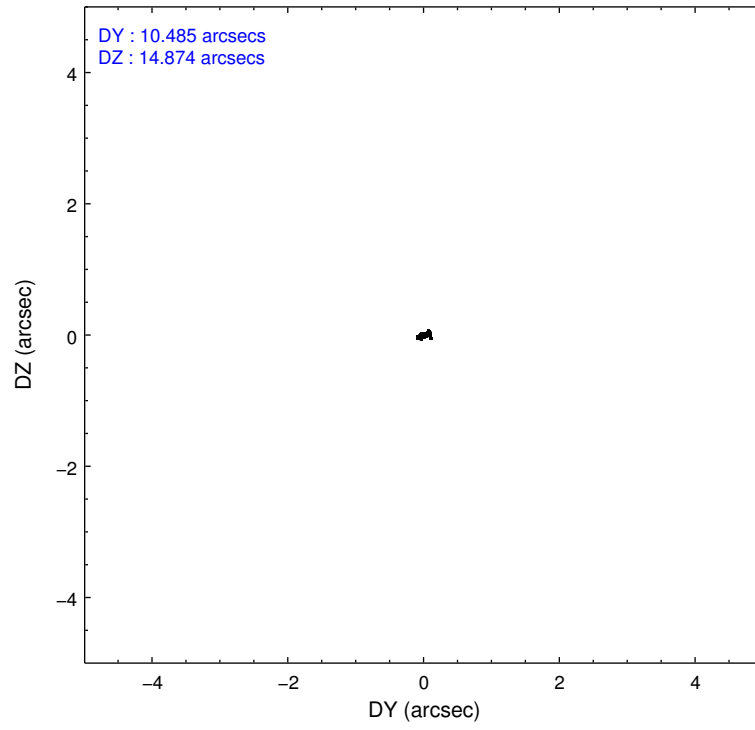
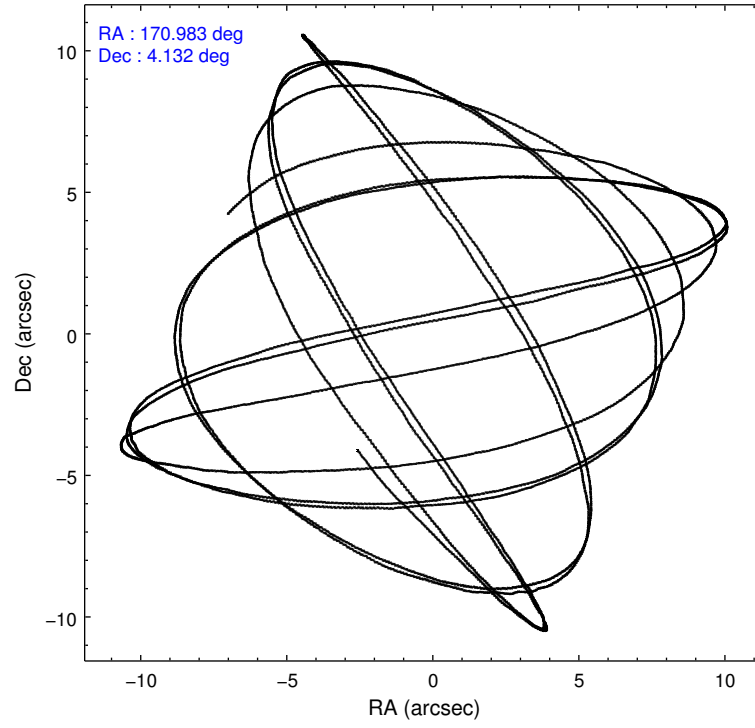
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	29163	30905	34744	32511	34193
rejected events	26220	26219	31718	29635	19265
rejected %	89%	84%	91%	91%	56%

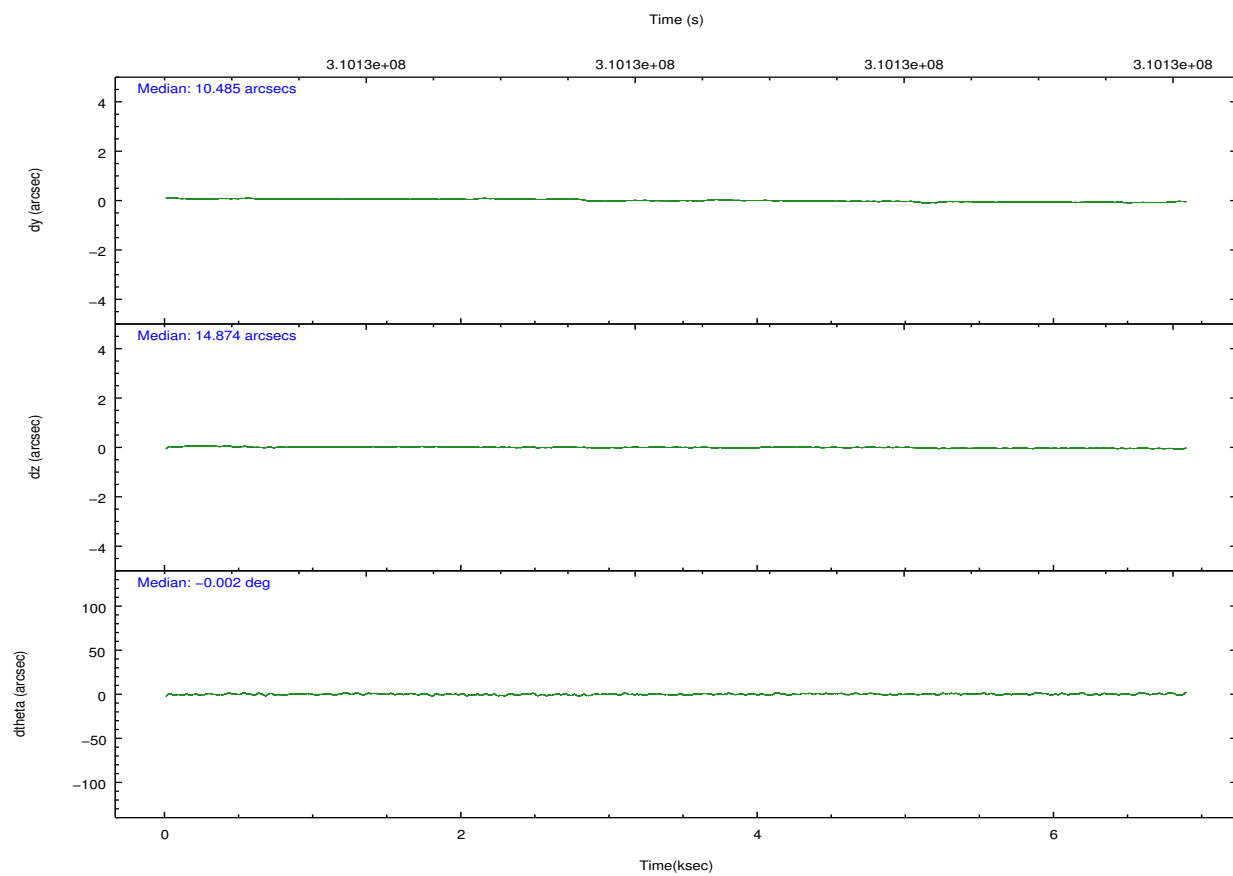
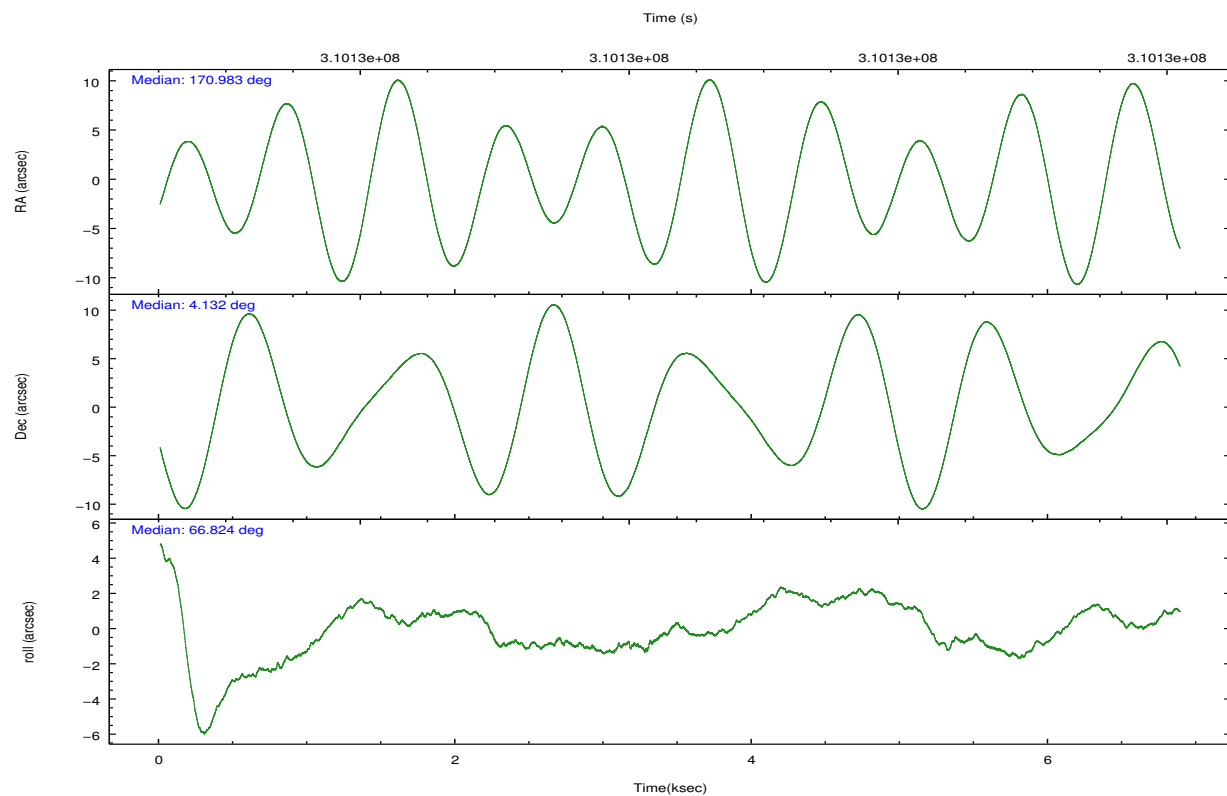
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1033	2700	1096	1020	1529
	3%	8%	3%	3%	4%
grade 1 events	17	28	17	27	61
	0%	0%	0%	0%	0%
grade 2 events	754	756	742	573	3307
	2%	2%	2%	1%	9%
grade 3 events	372	414	412	414	1549
	1%	1%	1%	1%	4%
grade 4 events	361	402	403	396	1563
	1%	1%	1%	1%	4%
grade 5 events	1053	1154	988	1264	3635
	3%	3%	2%	3%	10%
grade 6 events	549	616	531	604	7654
	1%	1%	1%	1%	22%
grade 7 events	25024	24835	30555	28213	14895
	85%	80%	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	170.986671	170.9833200133848	CCD I2 on	Y	Y
[deg] Pointing Dec	4.104376	4.131655271811019	CCD I3 on	Y	Y
[deg] Pointing Roll	66.626217	66.83513305215897	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)	310125059.184000	310124683.06655	On-chip summing requested	N	N
Observation start date	2007-10-30T09:49:54	2007-10-30T09:44:43	Subarray requested	CUSTOM	1/2
[s] Observation end time (MET)	310131759.184000	310131892.9169	Subarray start row	513	513
Observation end date	2007-10-30T11:41:34	2007-10-30T11:44:52	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



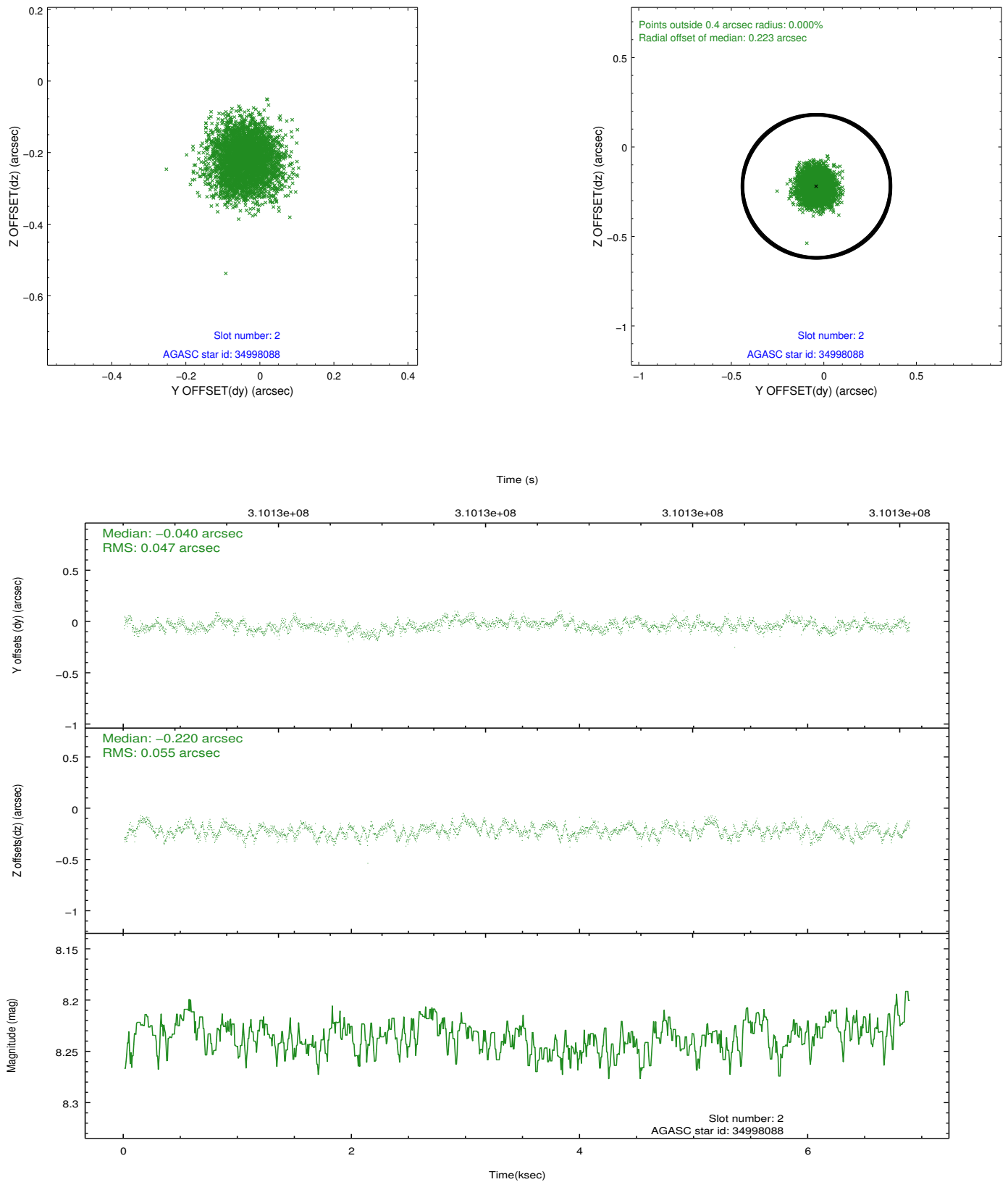


Slot Statistics

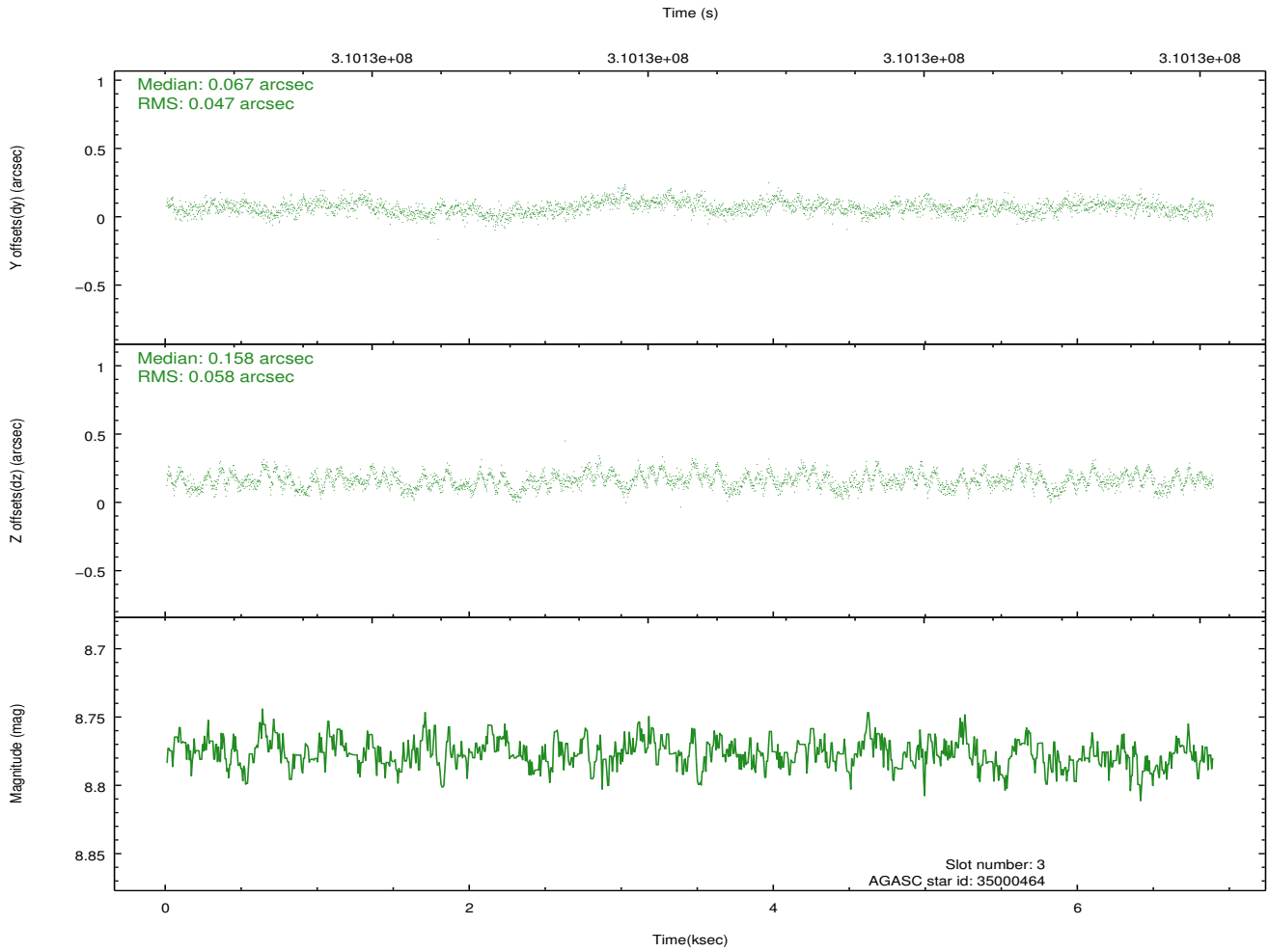
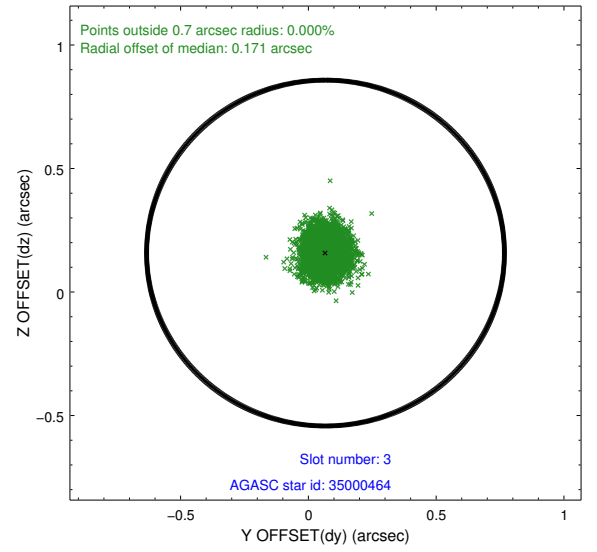
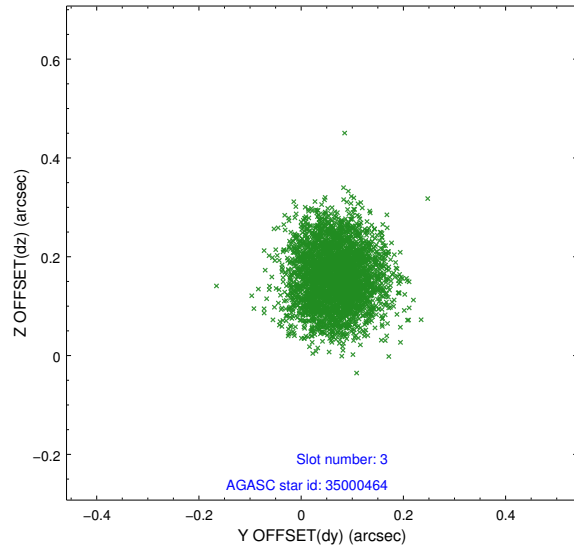
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1679	0.011	-0.055	0.007	0.014	0.000000	0.000000	-765.07	-844.89
1	FID	ACIS-I-5	7.23	1679	-0.075	0.103	0.007	0.015	0.000000	0.000000	-1819.64	1058.68
2	GUIDE	34998088	8.23	3358	-0.040	-0.220	0.078	0.123	170.391115	4.208300	-504.75	2112.27
3	GUIDE	35000464	8.78	3352	0.067	0.158	0.081	0.126	170.965623	3.618933	-1635.17	-622.42
4	GUIDE	35000776	7.21	3359	-0.120	-0.254	0.057	0.093	170.371940	3.937464	-1427.49	1788.49
5	GUIDE	35002728	8.20	3351	0.048	-0.122	0.088	0.294	170.760736	4.138149	-210.60	794.73
6	GUIDE	35002848	9.93	3340	0.095	0.333	0.118	0.194	171.207329	3.477909	-1755.08	-1621.84
7	GUIDE	35005744	6.63	3358	-0.053	0.103	0.066	0.104	171.458567	3.860108	-134.87	-1903.98

2.4 Star Slots

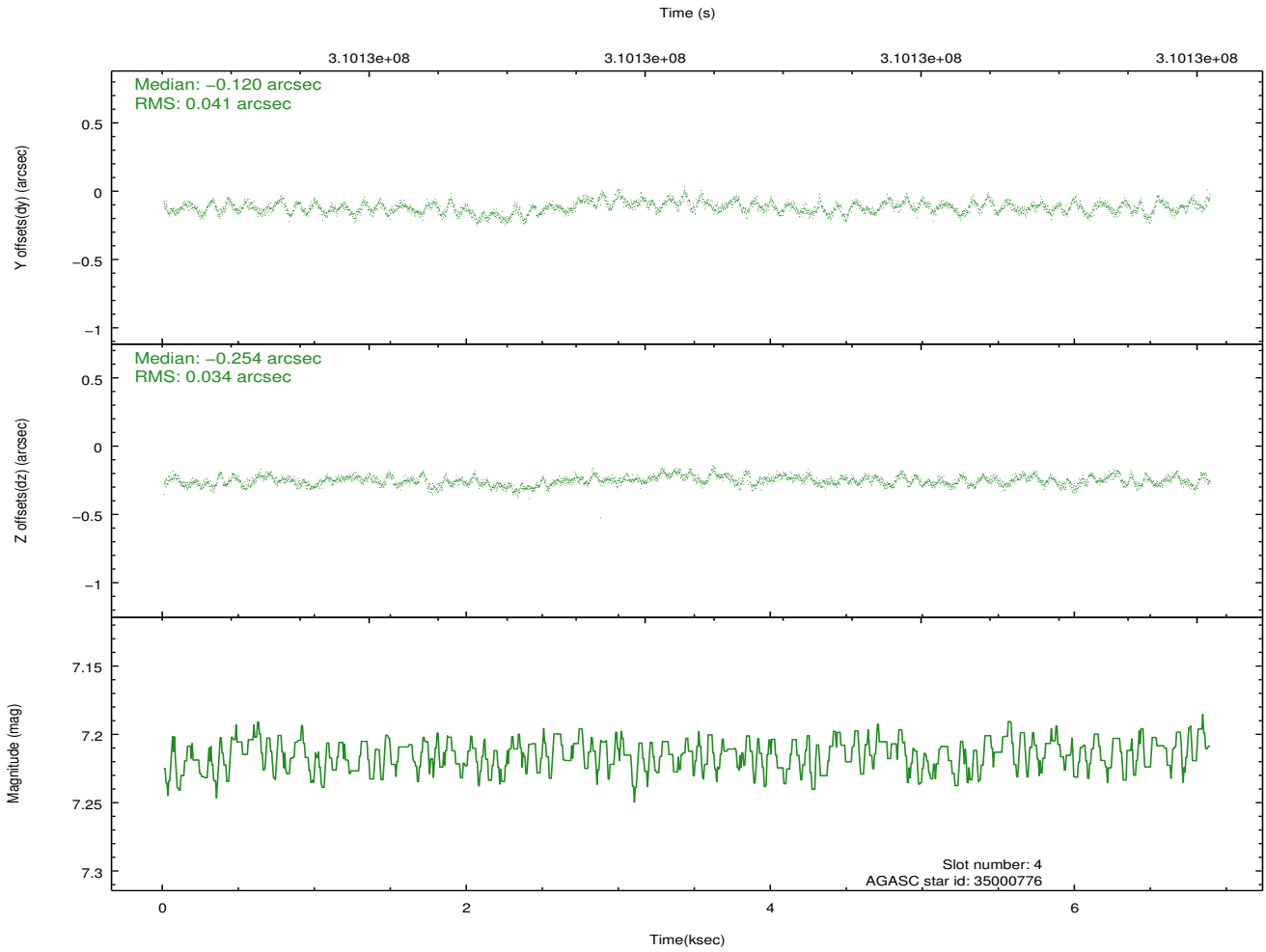
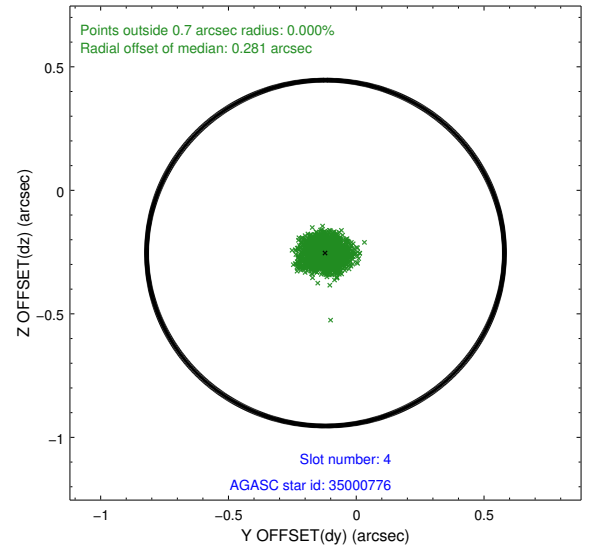
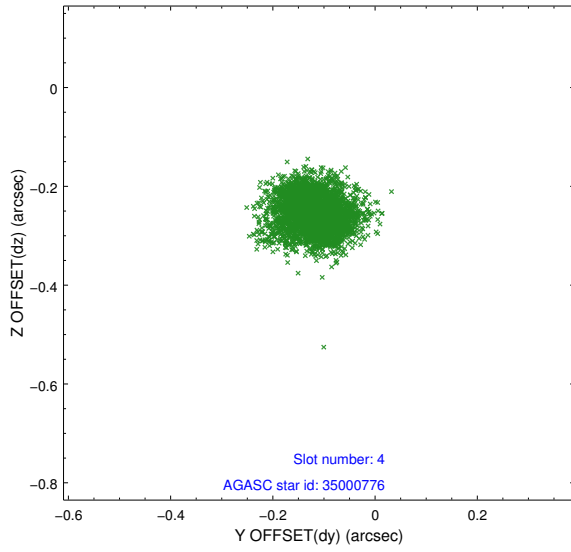
2.4.1 Slot 2



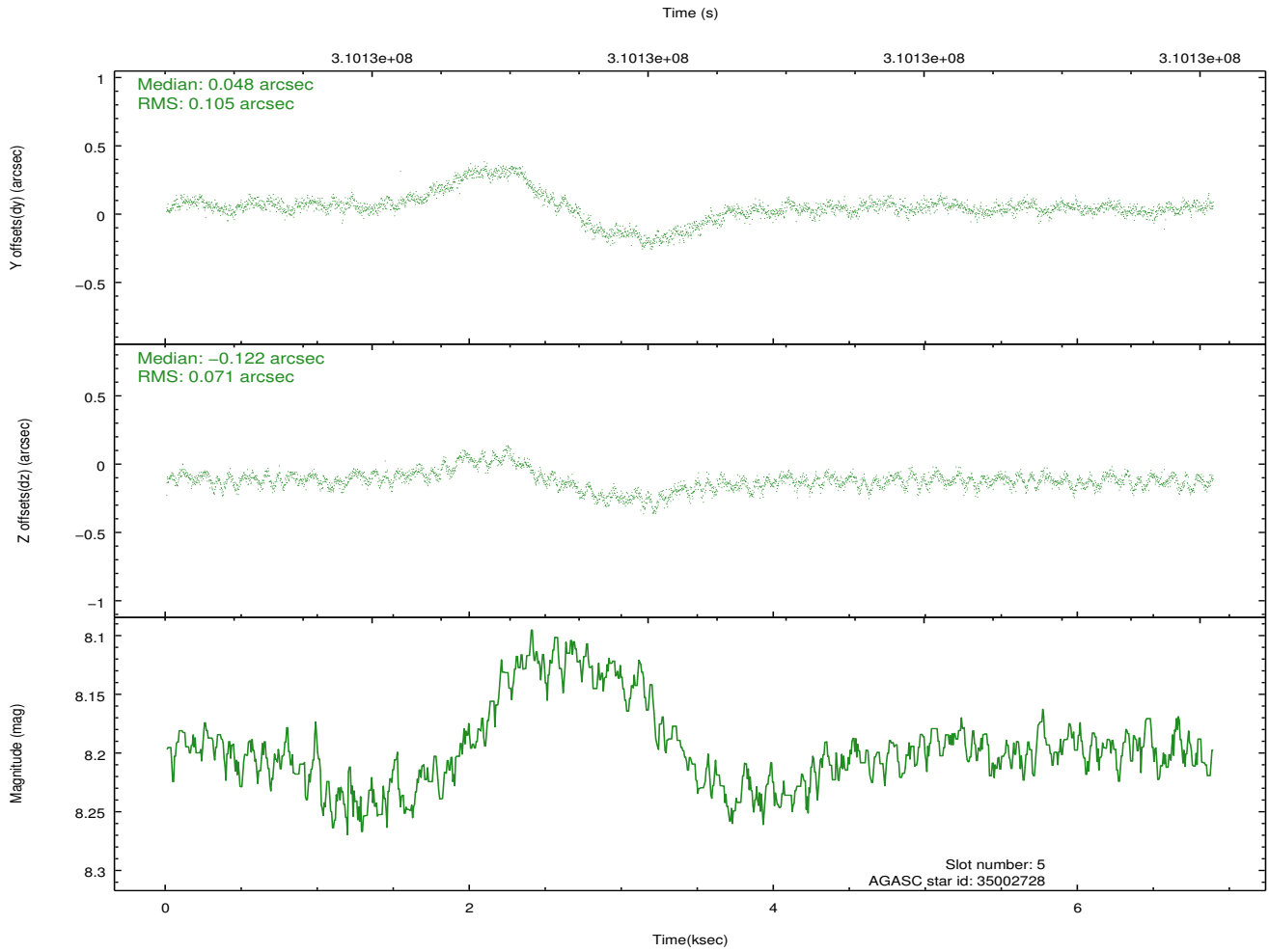
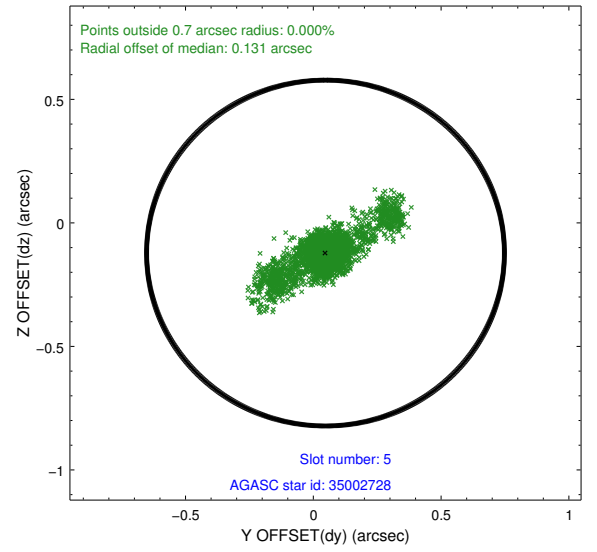
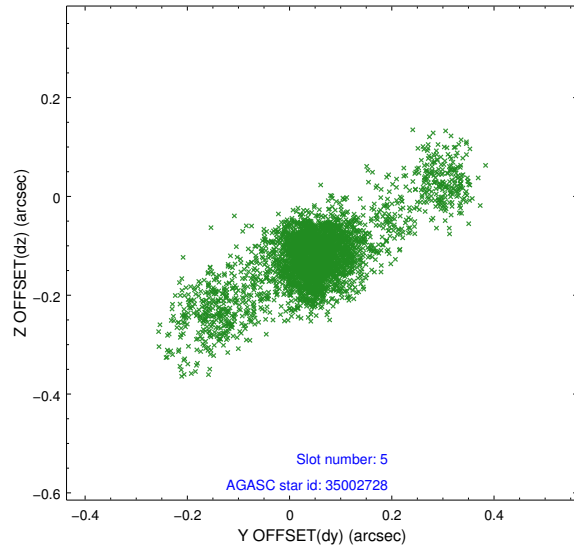
2.4.2 Slot 3



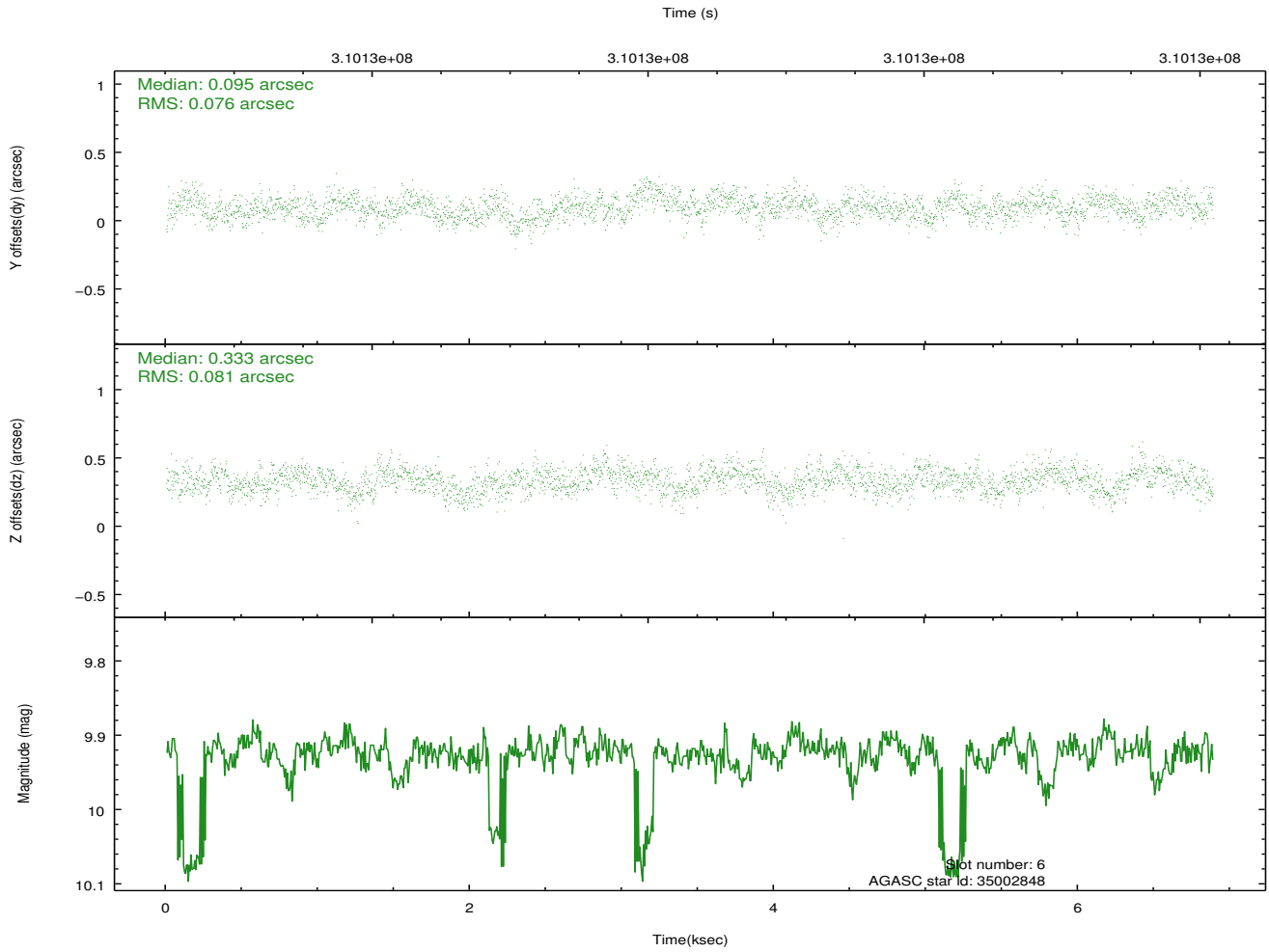
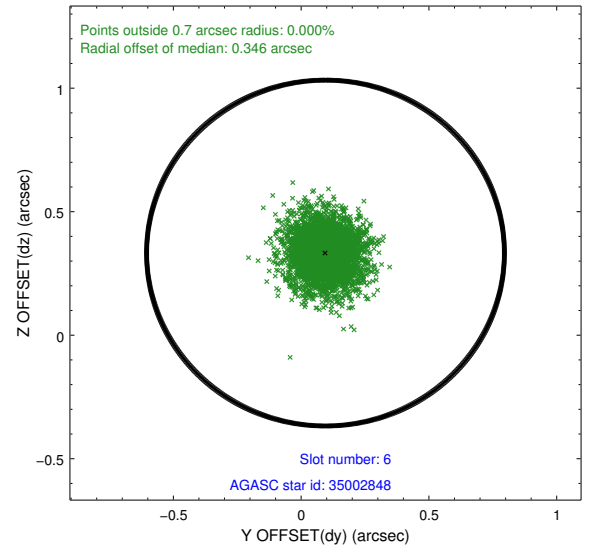
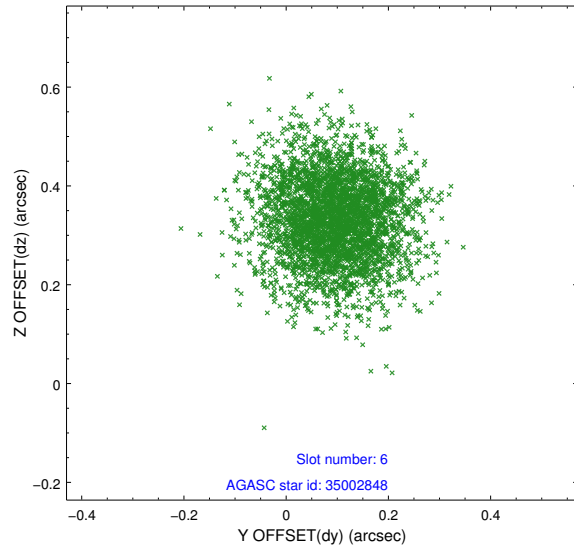
2.4.3 Slot 4



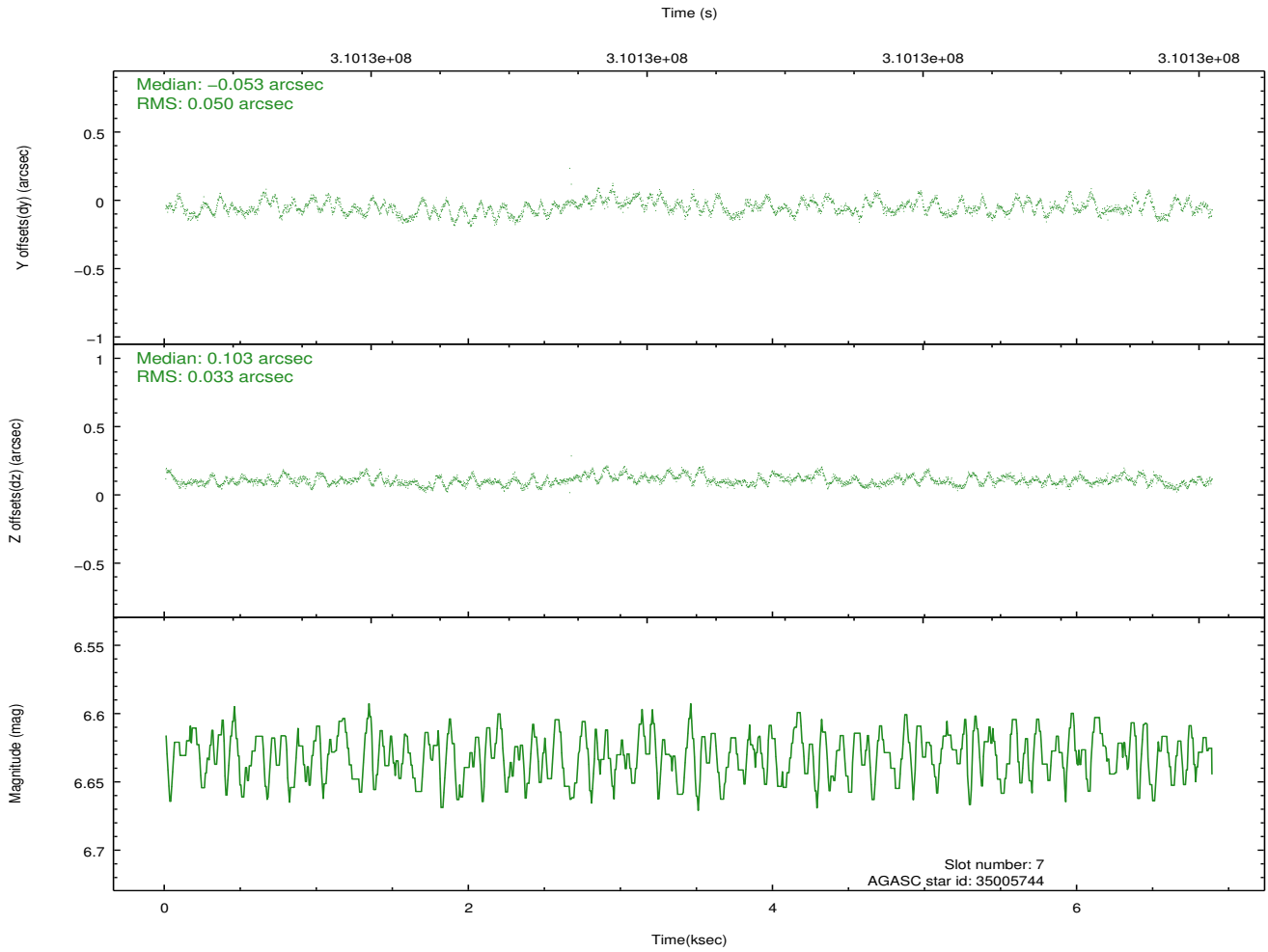
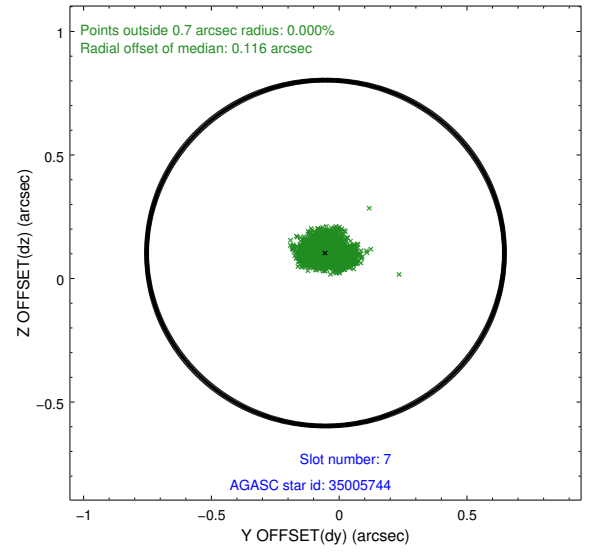
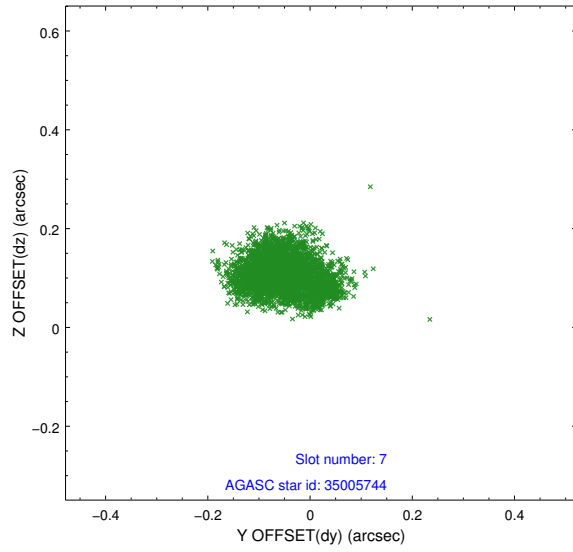
2.4.4 Slot 5



2.4.5 Slot 6

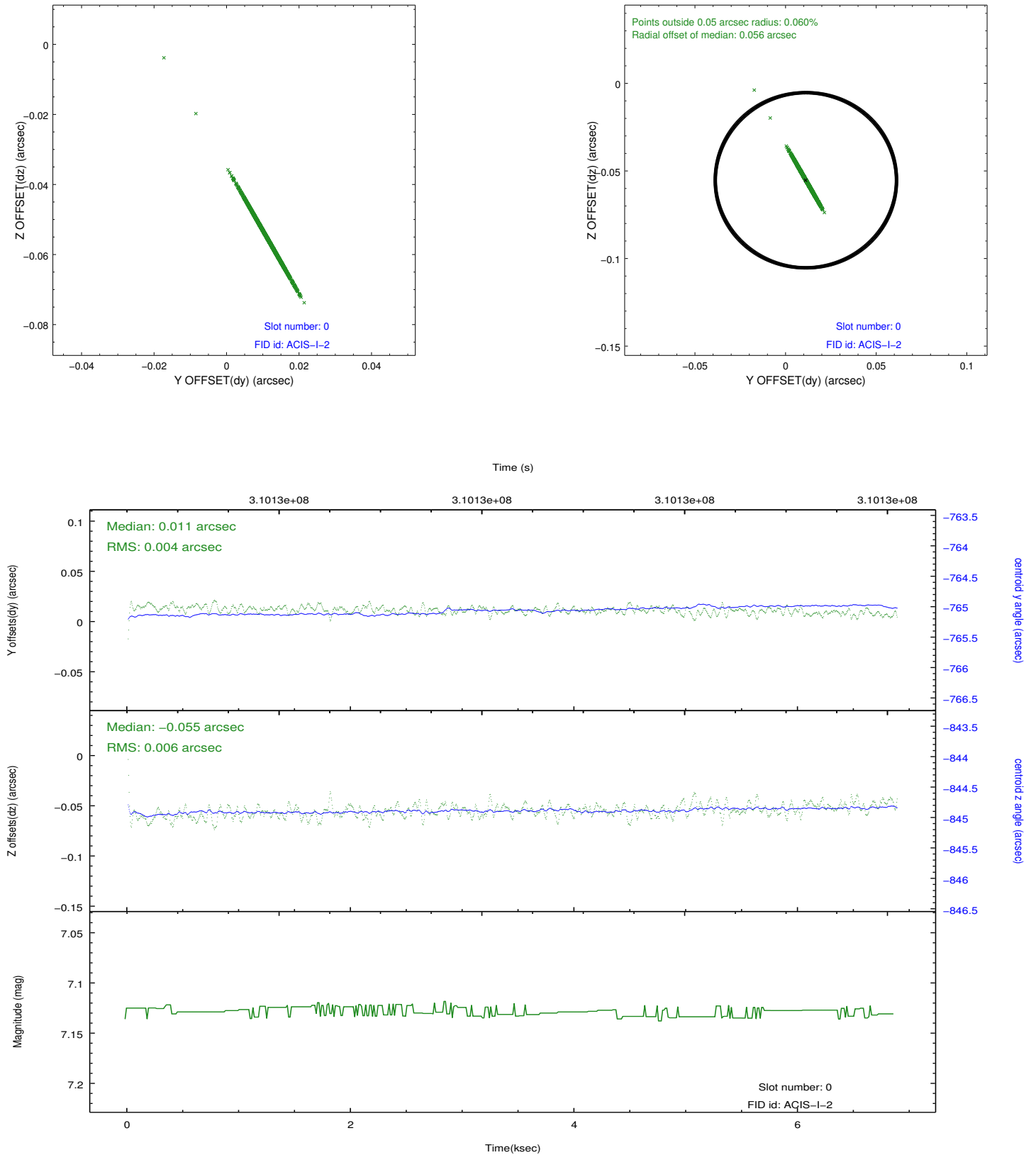


2.4.6 Slot 7

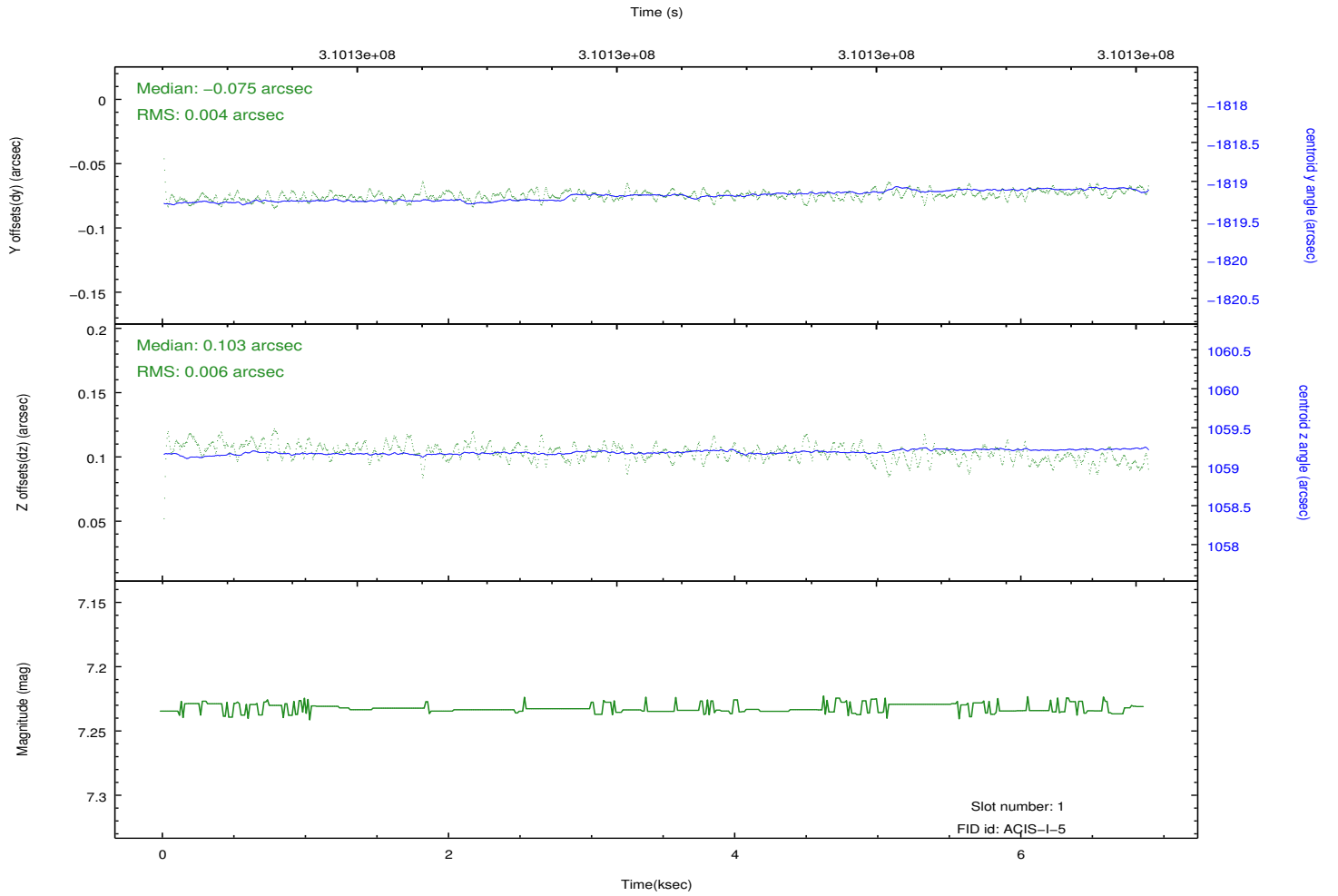
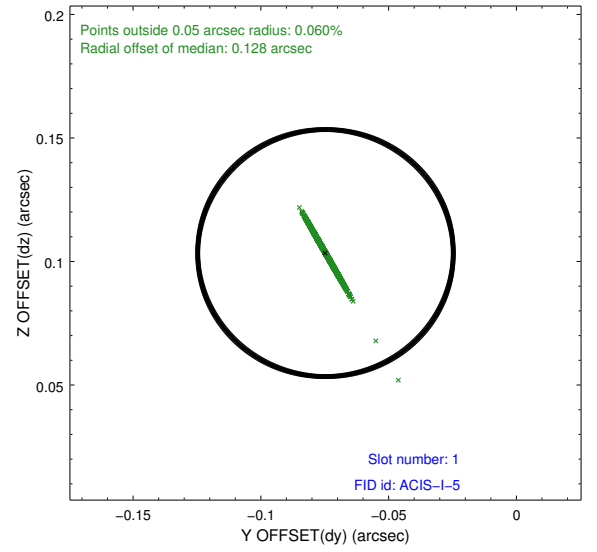
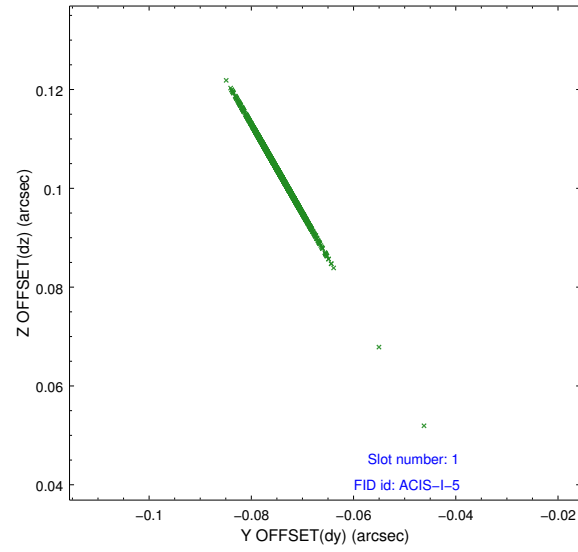


2.5 FID Slots

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	6.88320004

A.2 Comments

Window preference met.