

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10735 - L2 Version 2
Chandra X-Ray Center

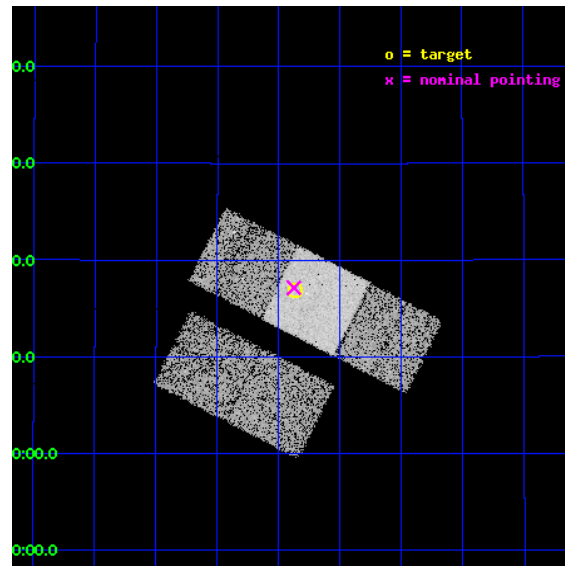
L2 Processing Date : May 25 2012

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1 Front

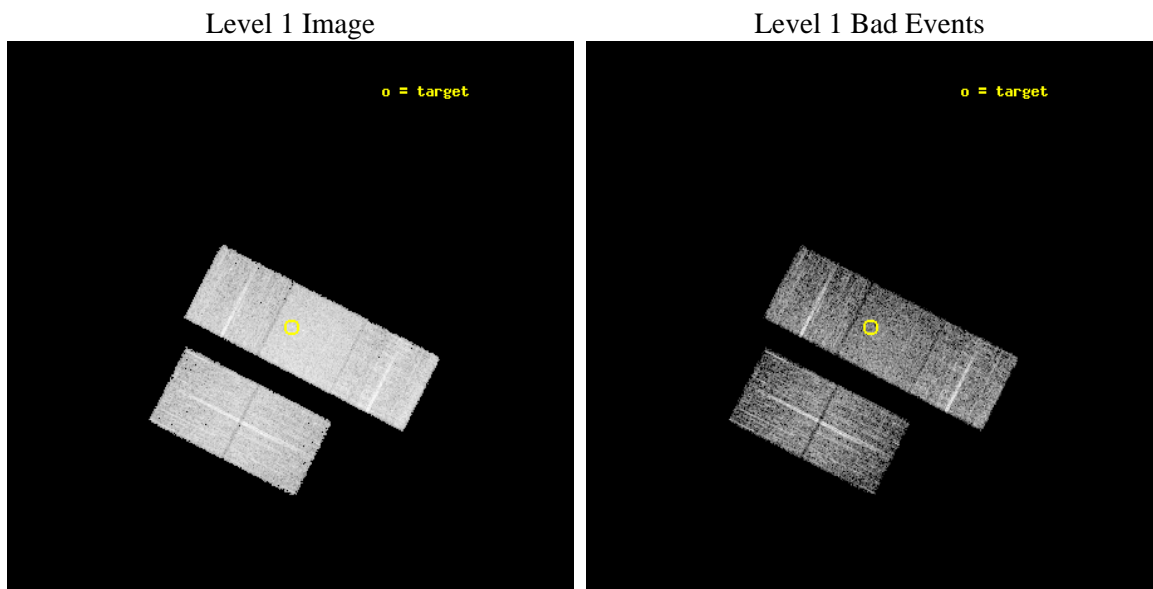
seq_num	701965	Sequence number
obs_id	10735	Observation id
title	A Chandra Snapshot Survey of Bright Mini-BAL Quasars	Proposal titl
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J151451.77+311654.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.715833	Observer's specified target RA [deg]
dec_targ	31.281667	Observer's specified target Dec [deg]
ra_nom	228.71883229912	Nominal RA [deg]
dec_nom	31.285852683538	Nominal Dec [deg]
roll_nom	27.109288706874	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4191.2000322342	Sum of GTIs [s]
livetime	4136.4389182965	Livetime [s]
ontime2	4184.9181015491	Sum of GTIs [s]
ontime3	4191.2000322342	Sum of GTIs [s]
ontime6	4191.2000322342	Sum of GTIs [s]
ontime7	4191.2000322342	Sum of GTIs [s]
ontime8	4191.2000322342	Sum of GTIs [s]
l2events	50211	Number of level 2 events



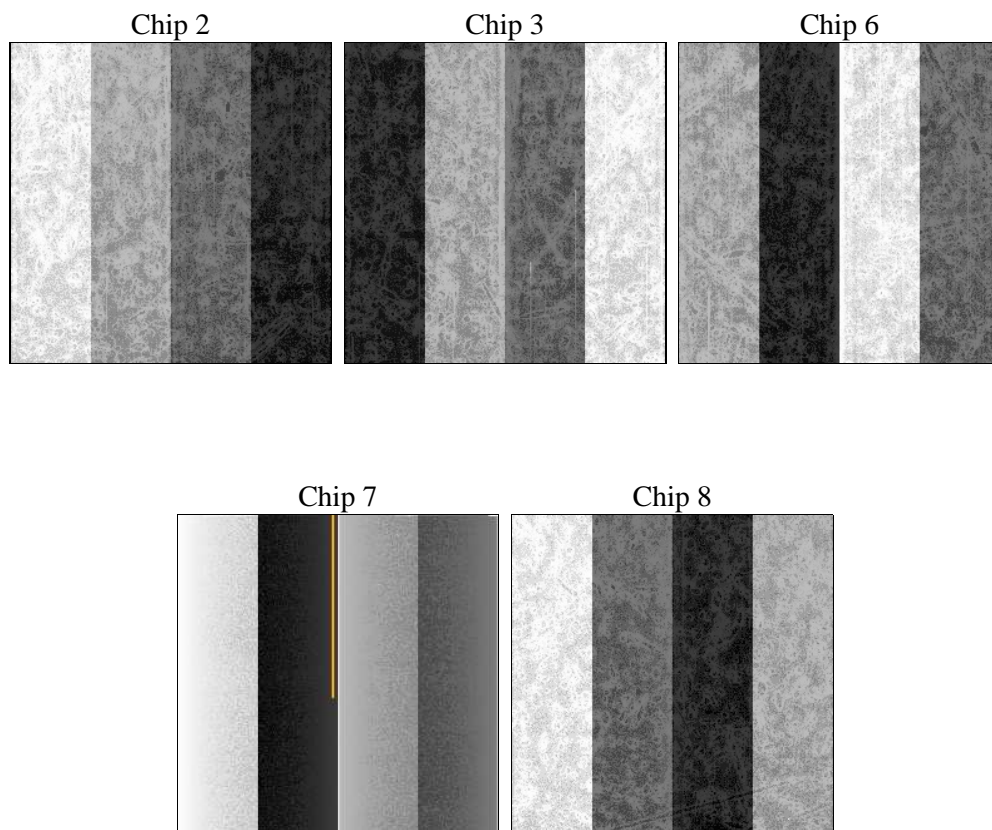
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4015.379000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4191.2000322342	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	4184.9181015491	Sum of GTIs [s]
date	2012-05-25T18:12:02	Date and time of file creation	ontime3	4191.2000322342	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4191.2000322342	Sum of GTIs [s]
			ontime7	4191.2000322342	Sum of GTIs [s]
			ontime8	4191.2000322342	Sum of GTIs [s]
			l1events	251231	Number of level 1 events

2.1.4 Events

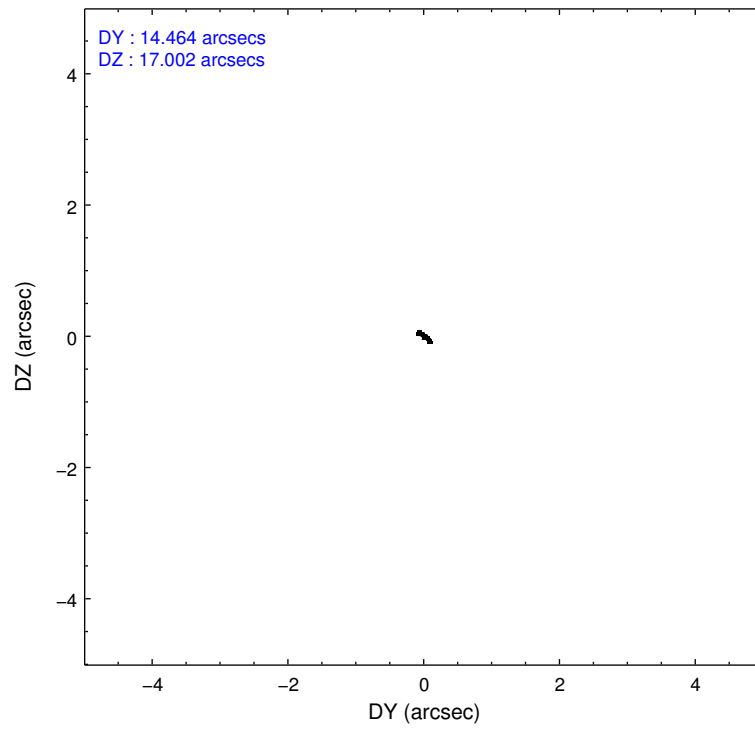
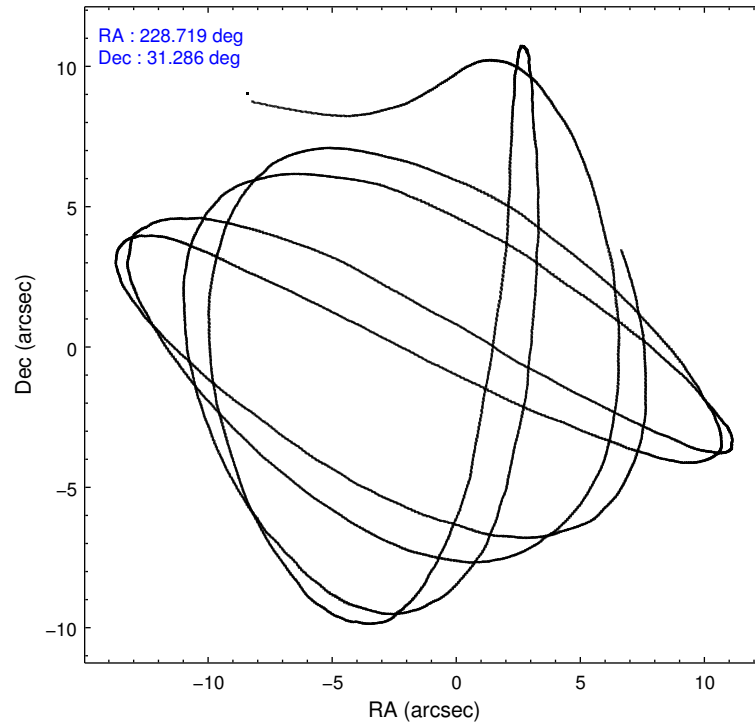
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	43903	43025	44068	62258	57977
rejected events	37200	36347	37139	36271	44046
rejected %	84%	84%	84%	58%	75%

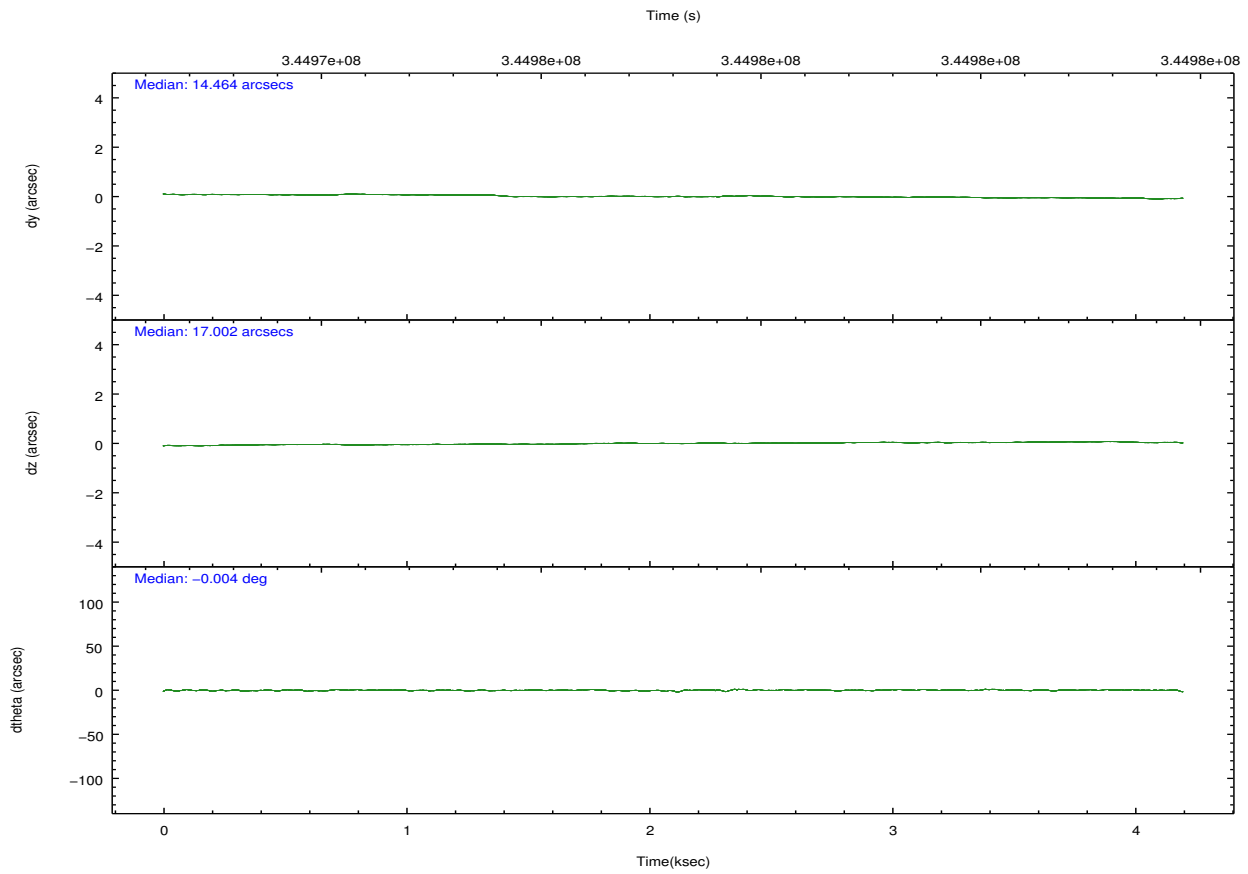
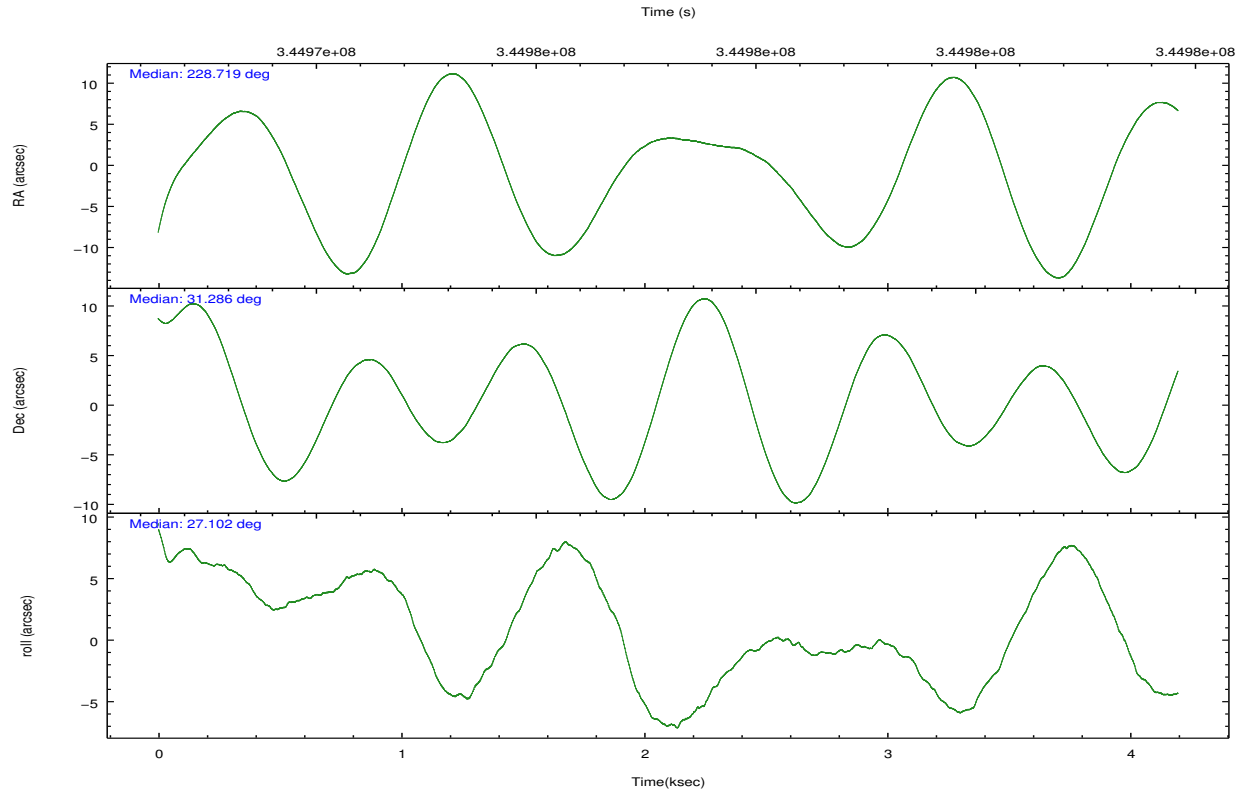
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3459	3364	3144	2431	5136
	7%	7%	7%	3%	8%
grade 1 events	51	40	29	70	42
	0%	0%	0%	0%	0%
grade 2 events	1319	1259	1503	5431	3053
	3%	2%	3%	8%	5%
grade 3 events	586	569	554	2232	1421
	1%	1%	1%	3%	2%
grade 4 events	566	565	593	2248	1327
	1%	1%	1%	3%	2%
grade 5 events	1731	2015	2093	5563	2857
	3%	4%	4%	8%	4%
grade 6 events	1015	1154	1346	14592	3435
	2%	2%	3%	23%	5%
grade 7 events	35176	34059	34806	29691	40706
	80%	79%	78%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	228.701778	228.7188322991175	CCD I2 on	O1	Y
[deg] Pointing Dec	31.262654	31.28585268353755	CCD I3 on	O2	Y
[deg] Pointing Roll	26.961528	27.10928870687419	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	344973682.184000	344972600.20225	CCD S5 on	N	N
Observation start date	2008-12-06T18:00:17	2008-12-06T17:43:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	344977697.184000	344977928.15252	On-chip summing requested	N	N
Observation end date	2008-12-06T19:07:12	2008-12-06T19:12:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



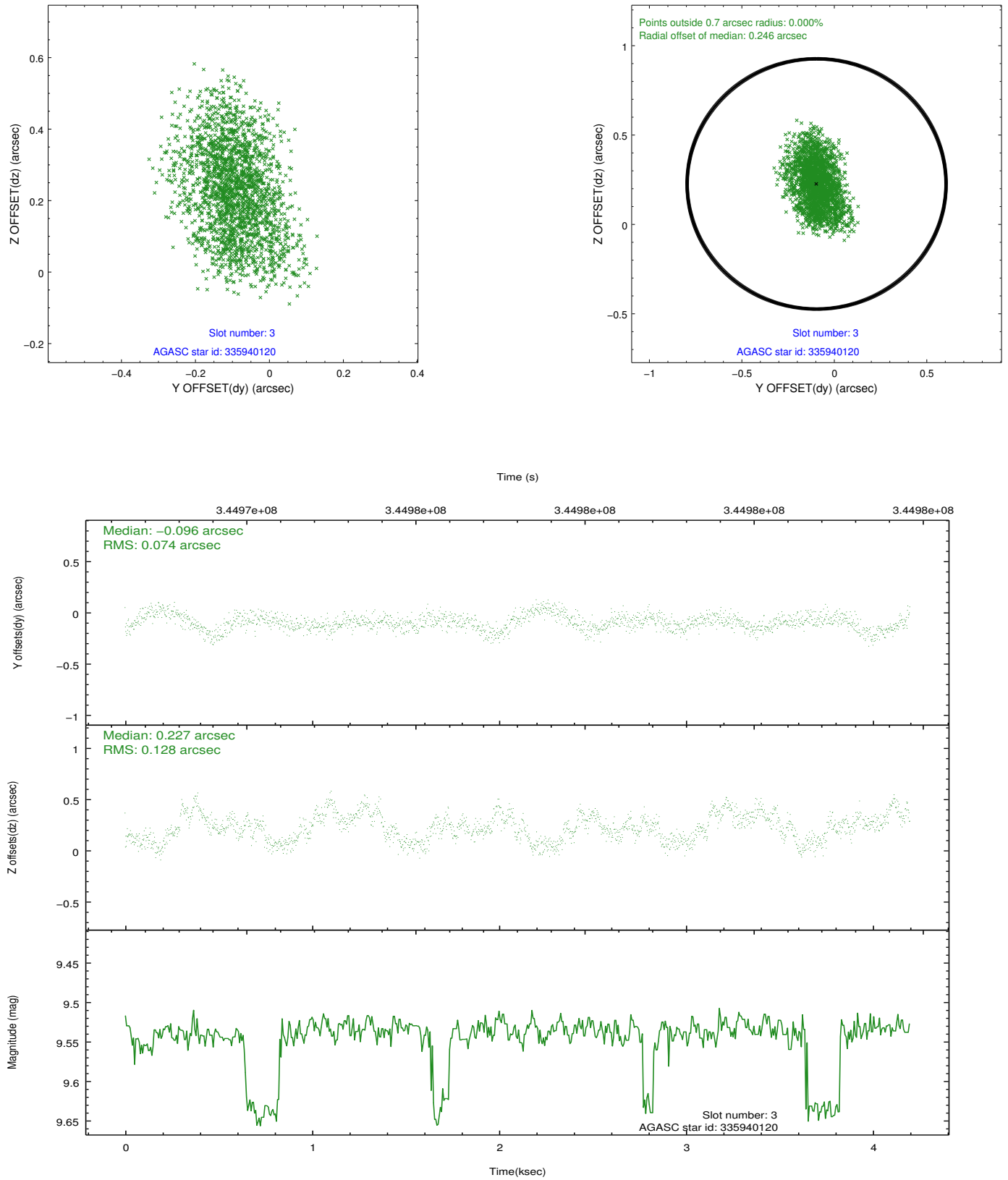


Slot Statistics

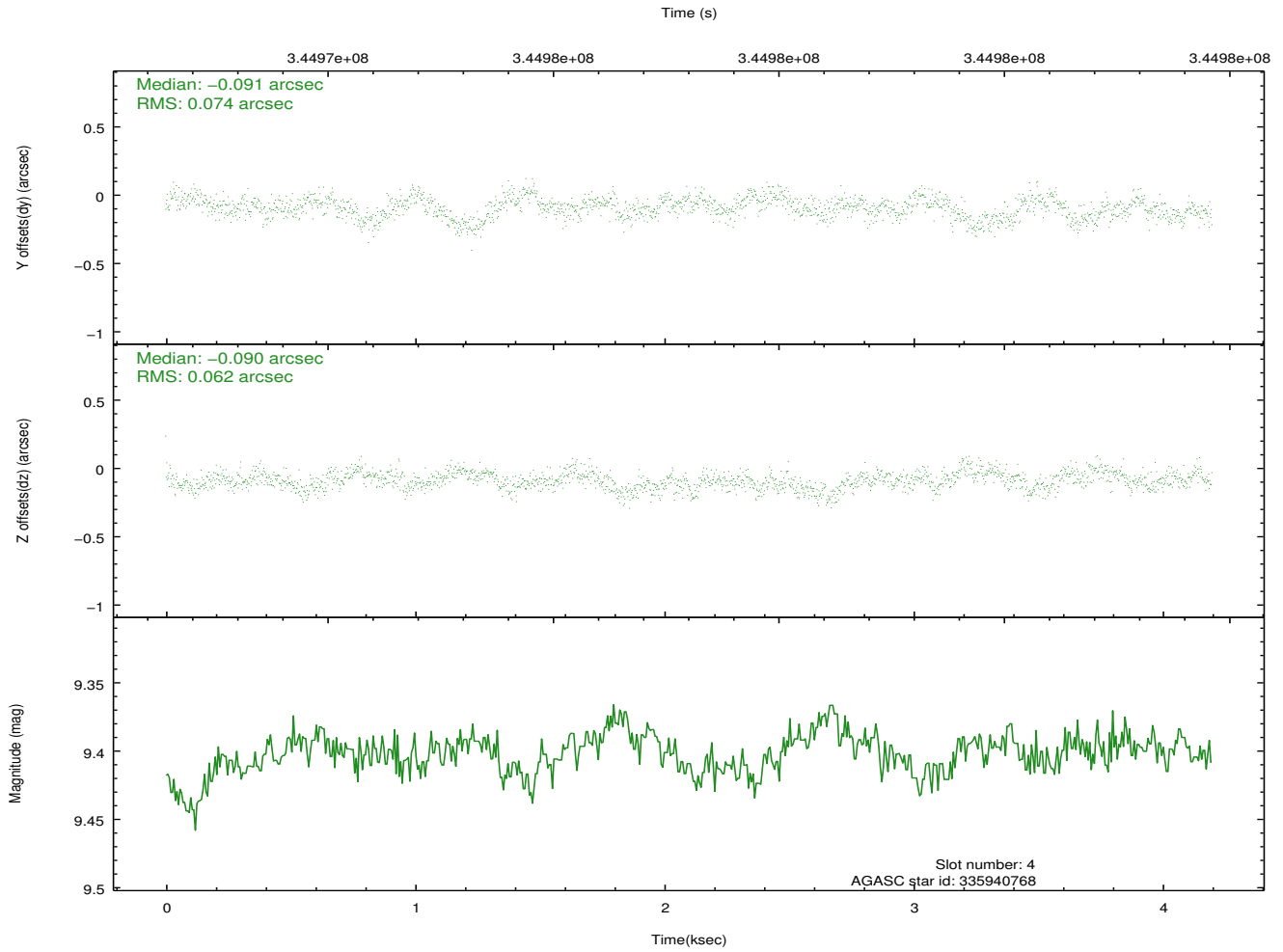
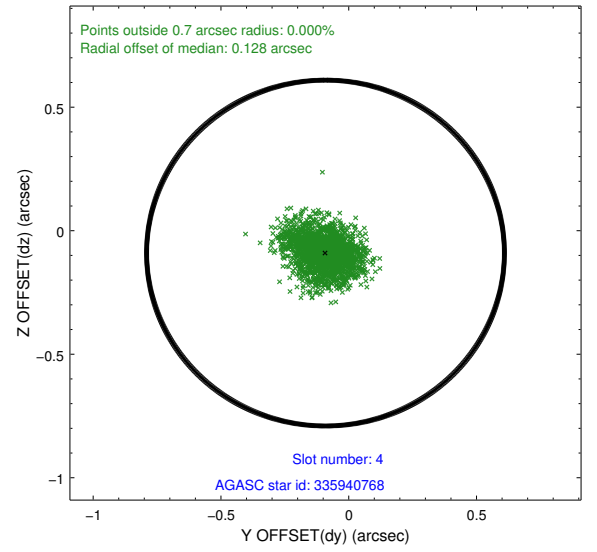
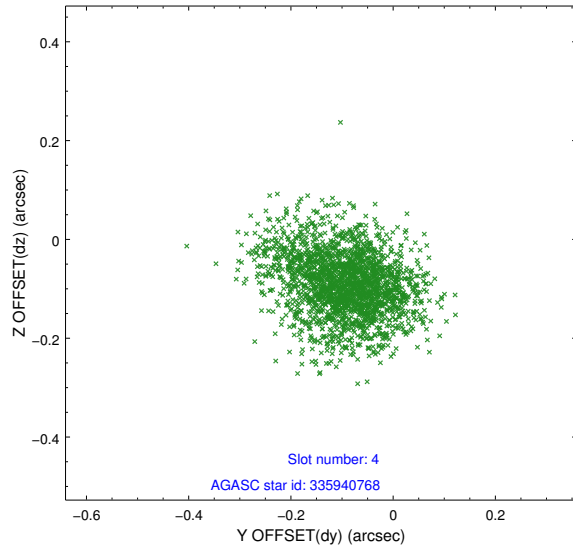
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	1024	0.166	-0.083	0.006	0.010	0.000000	0.000000	928.74	-1734.11
1	FID	ACIS-S-2	6.94	1024	-0.059	0.004	0.007	0.012	0.000000	0.000000	-766.57	-1740.07
2	FID	ACIS-S-5	7.05	1024	-0.130	0.085	0.006	0.012	0.000000	0.000000	-1821.35	162.13
3	GUIDE	335940120	9.54	2034	-0.096	0.227	0.163	0.256	229.134476	30.782253	410.25	-2145.62
4	GUIDE	335940768	9.40	2047	-0.091	-0.090	0.102	0.169	229.145415	31.874300	2208.58	1349.34
5	GUIDE	335942440	8.18	2048	0.098	-0.138	0.075	0.120	228.094264	31.469494	-1321.61	1514.01
6	GUIDE	335945296	8.33	2048	0.115	0.028	0.086	0.136	229.051853	30.927573	417.09	-1562.79
7	GUIDE	335946016	10.09	2039	-0.015	0.005	0.213	0.343	229.328038	31.575403	2225.26	137.05

2.4 Star Slots

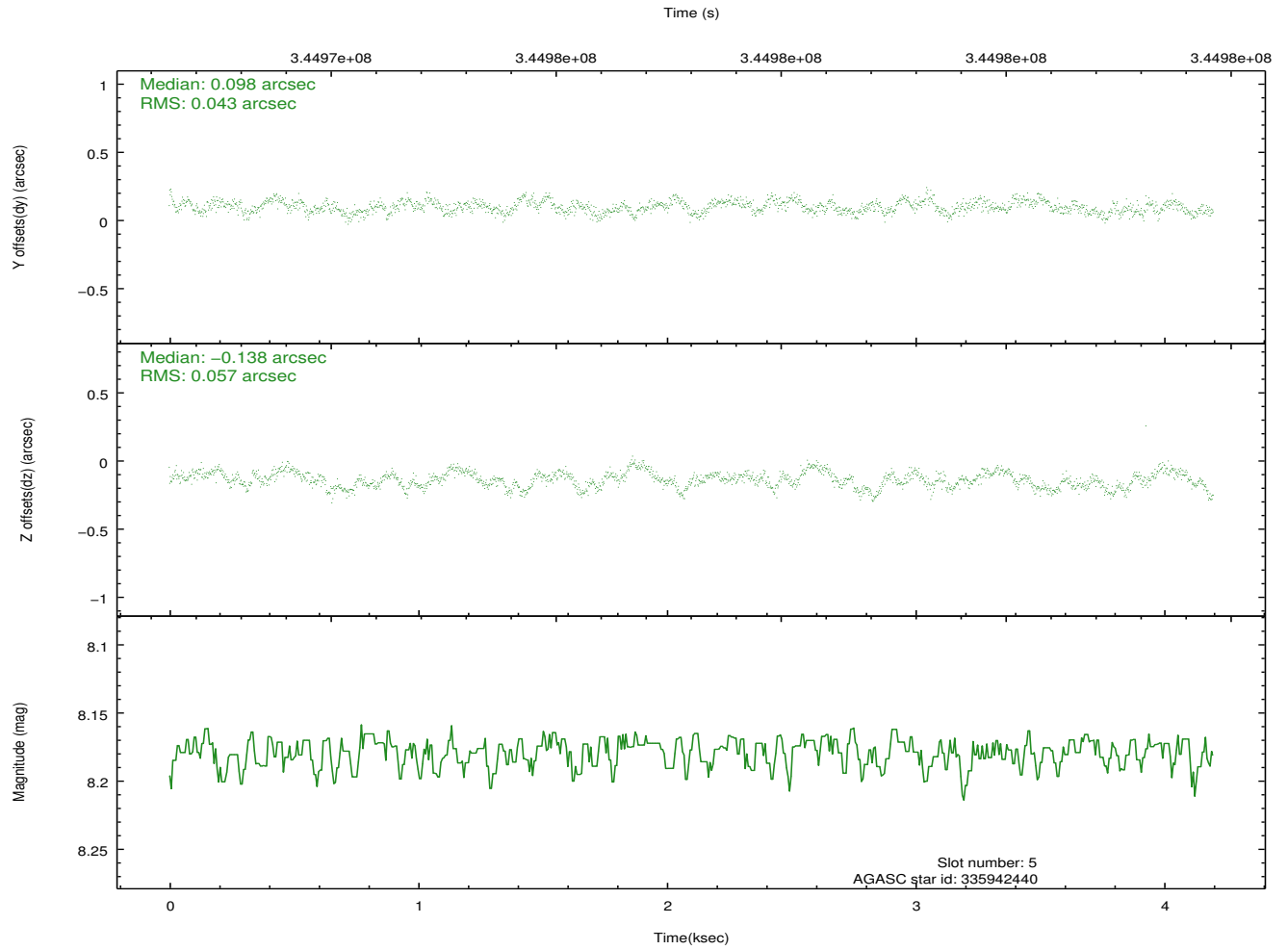
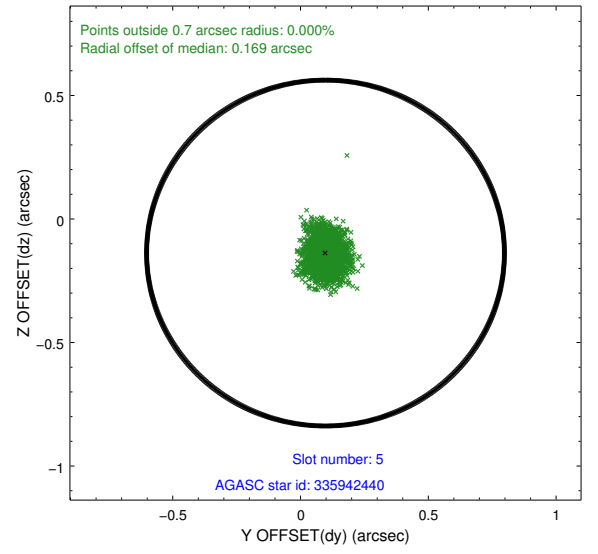
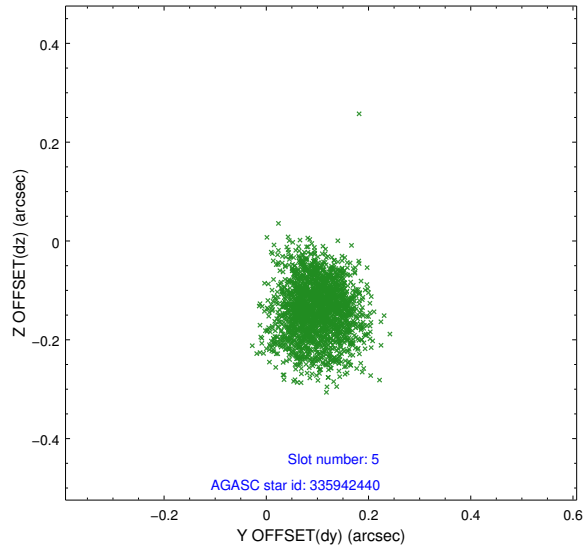
2.4.1 Slot 3



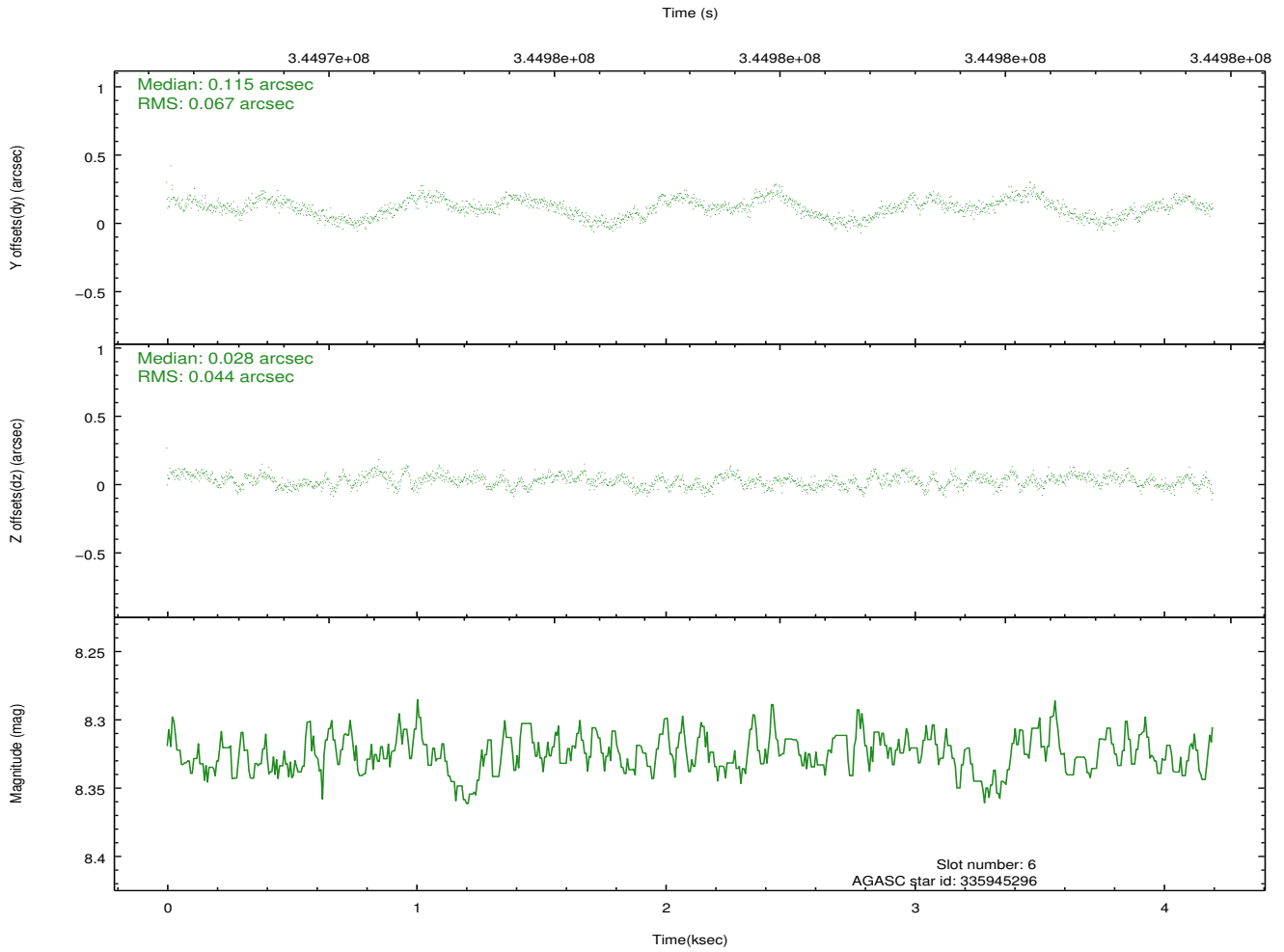
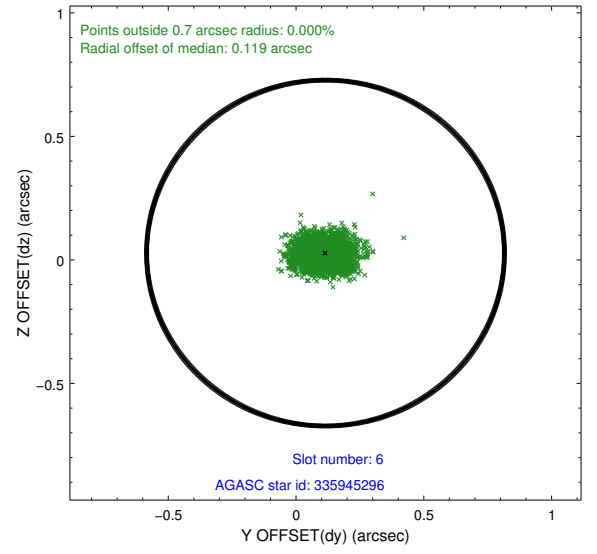
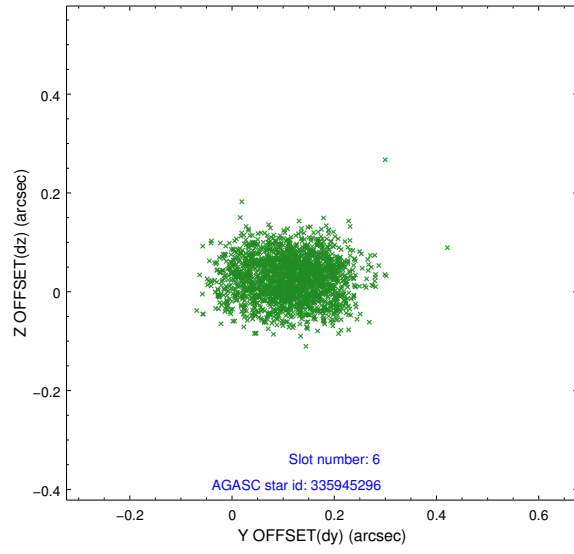
2.4.2 Slot 4



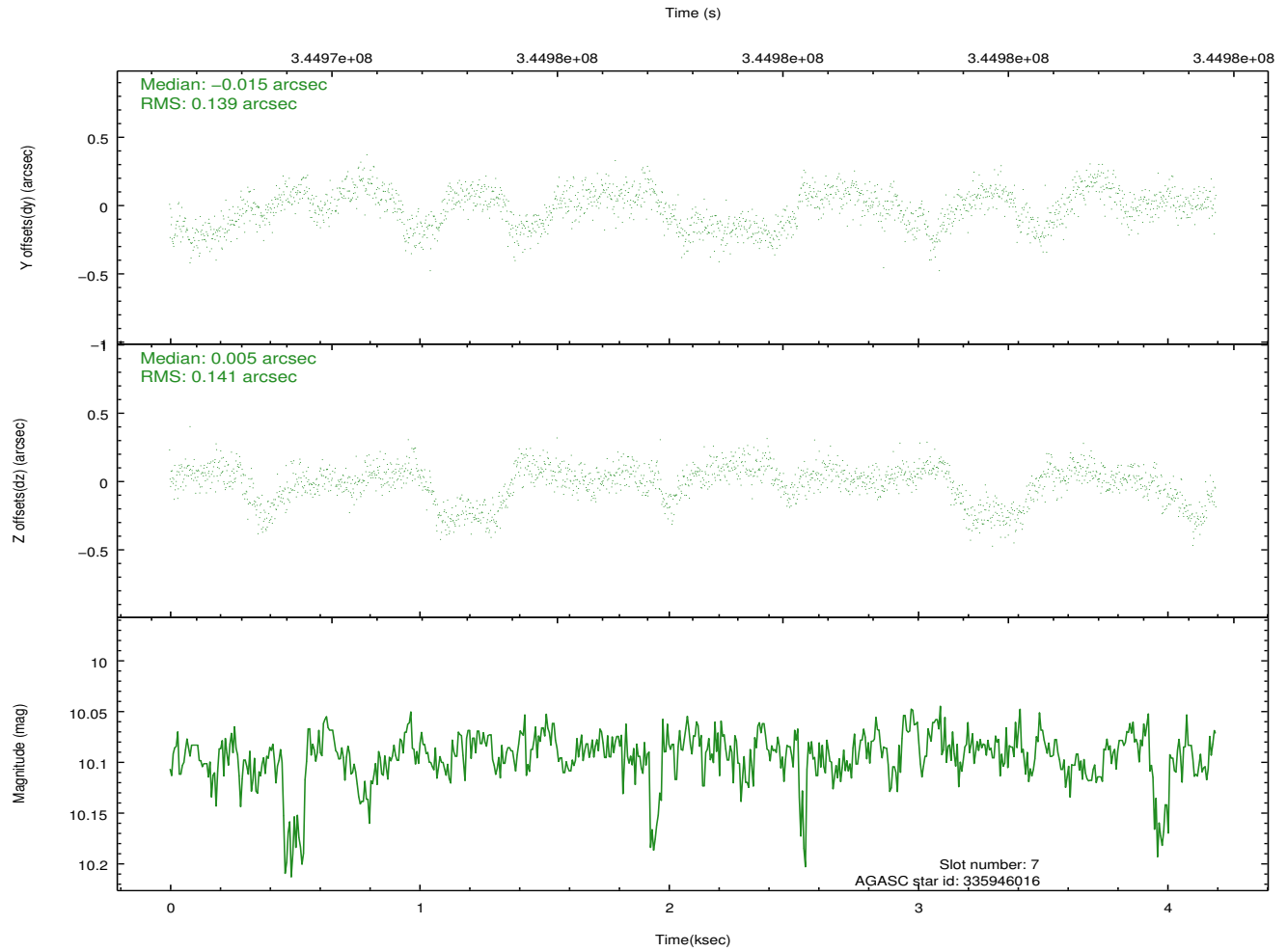
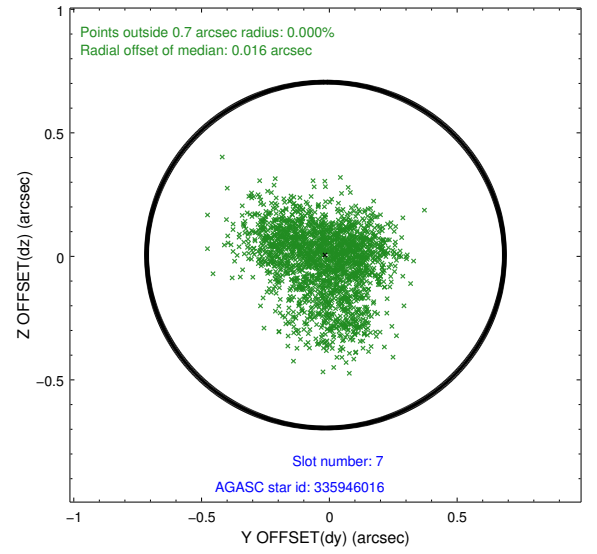
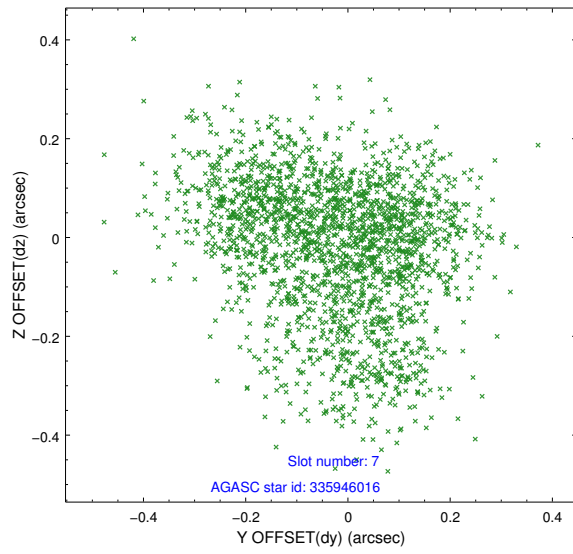
2.4.3 Slot 5



2.4.4 Slot 6

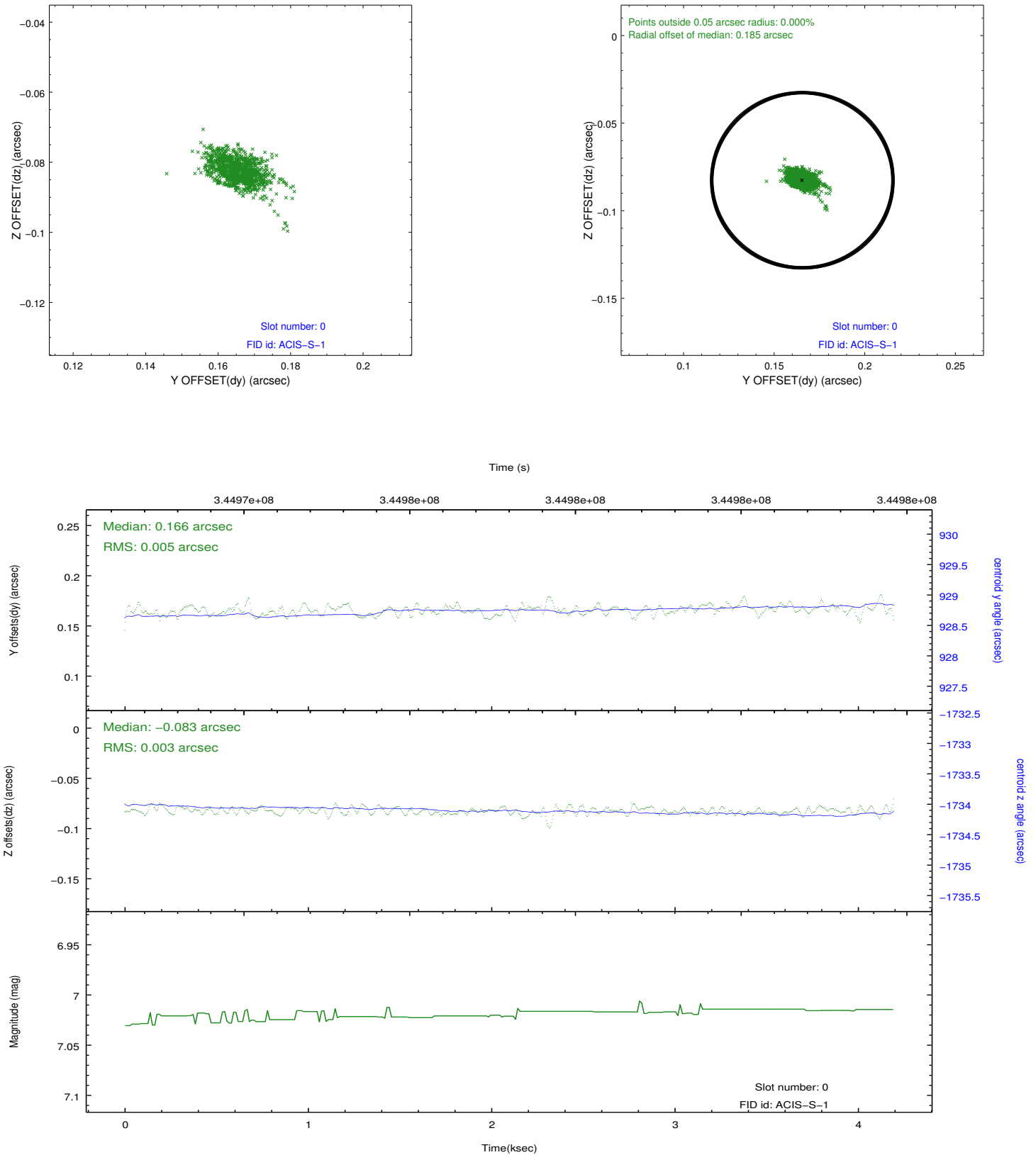


2.4.5 Slot 7

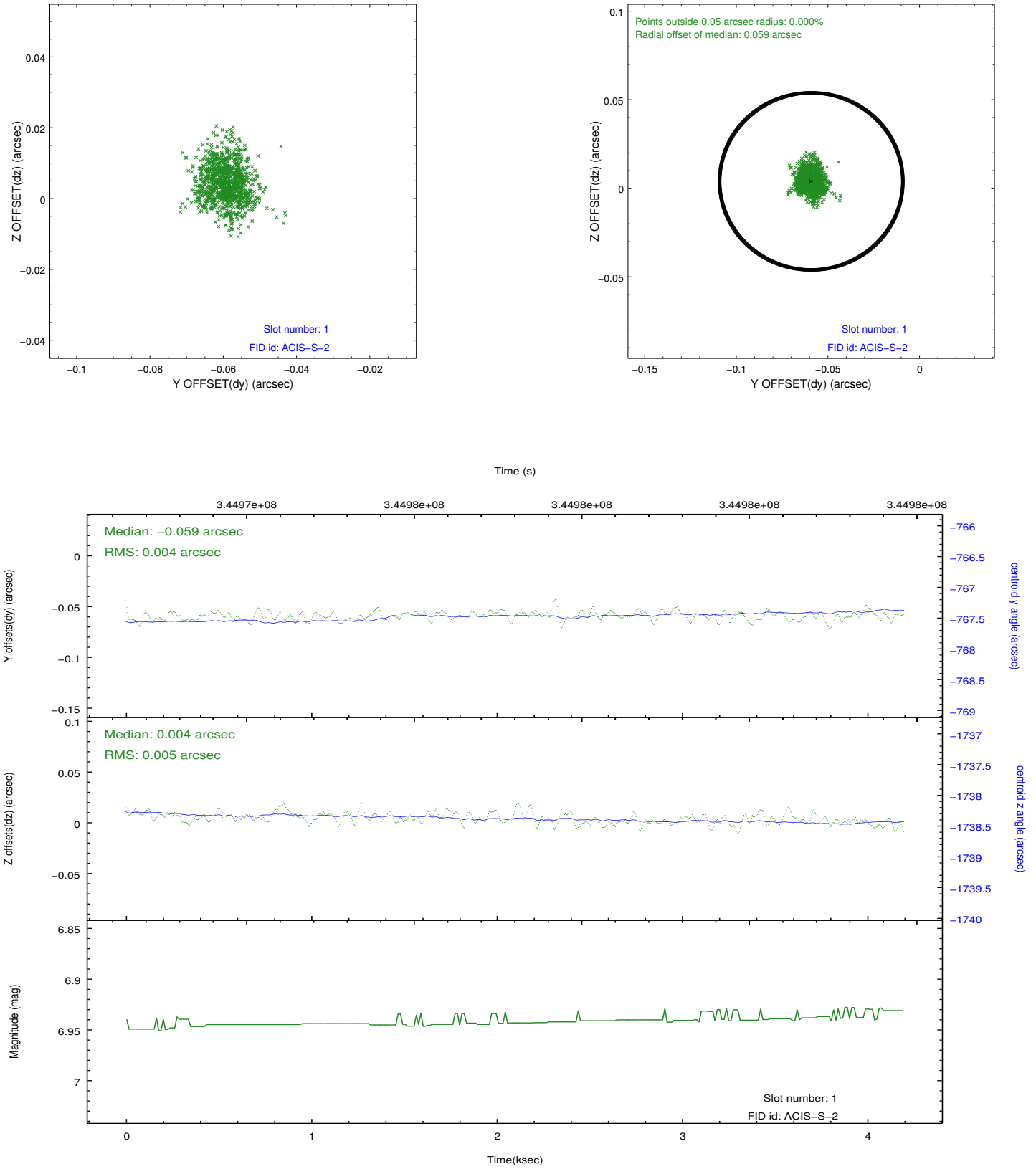


2.5 FID Slots

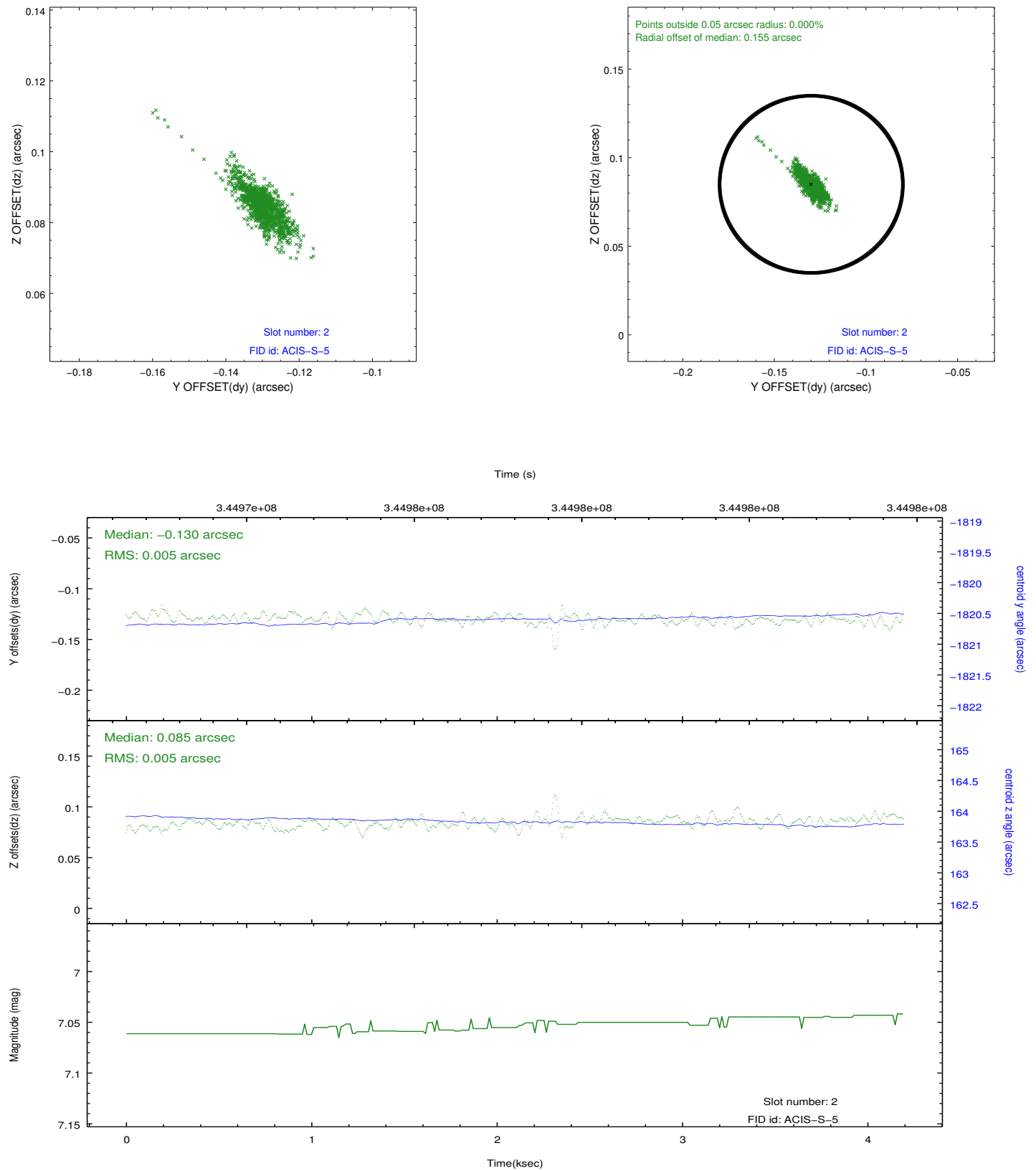
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.19120003

A.2 Comments

Increased count rate during last ~400 s of the observation is likely due to a high radiation environment of the spacecraft during that period.