

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9180 - L2 Version 2
Chandra X-Ray Center

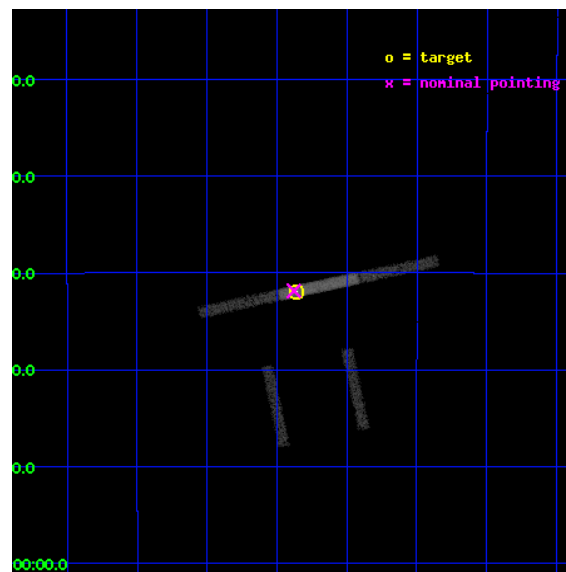
L2 Processing Date : May 11 2012

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1 Front

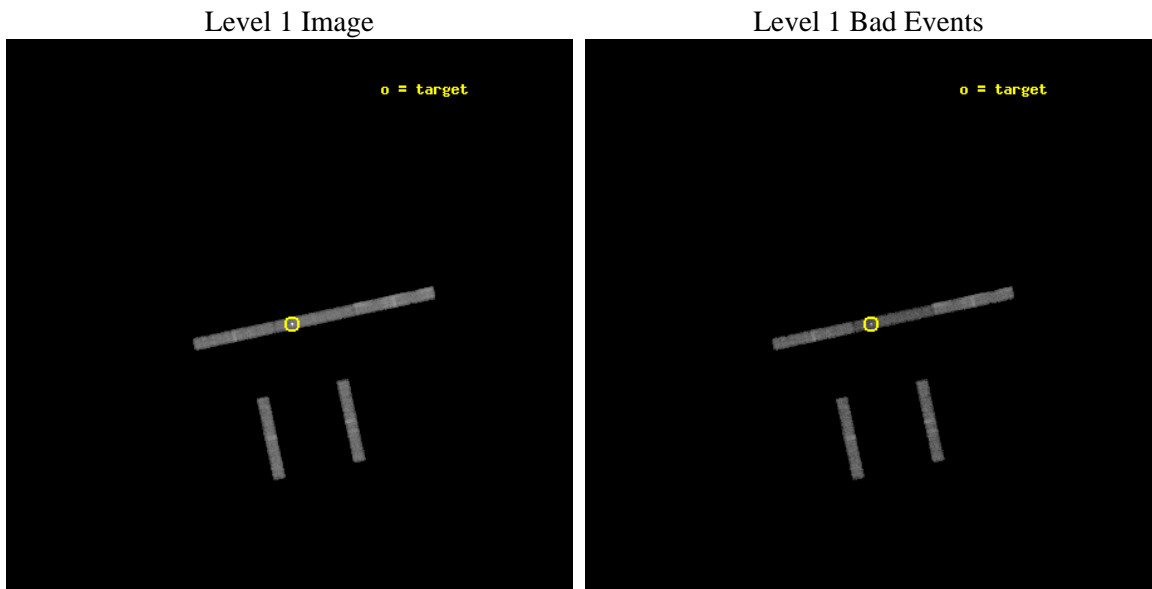
seq_num	701622	Sequence number
obs_id	9180	Observation id
title	Studying the Optical and X-ray Emission Regions of Quasar RX J1131-1231 by Monitoring Microlensing Events	Proposal title
observer	Dr. George Chartas	Principal investigator
object	RX J1131-1231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96964863225	Nominal RA [deg]
dec_nom	-12.530886960136	Nominal Dec [deg]
roll_nom	347.90079187497	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15157.099741817	Sum of GTIs [s]
livetime	14317.674915351	Livetime [s]
ontime2	15157.099741817	Sum of GTIs [s]
ontime3	15156.358721733	Sum of GTIs [s]
ontime6	15157.099741817	Sum of GTIs [s]
ontime7	15157.099741817	Sum of GTIs [s]
ontime8	15157.099741817	Sum of GTIs [s]
l2events	25801	Number of level 2 events



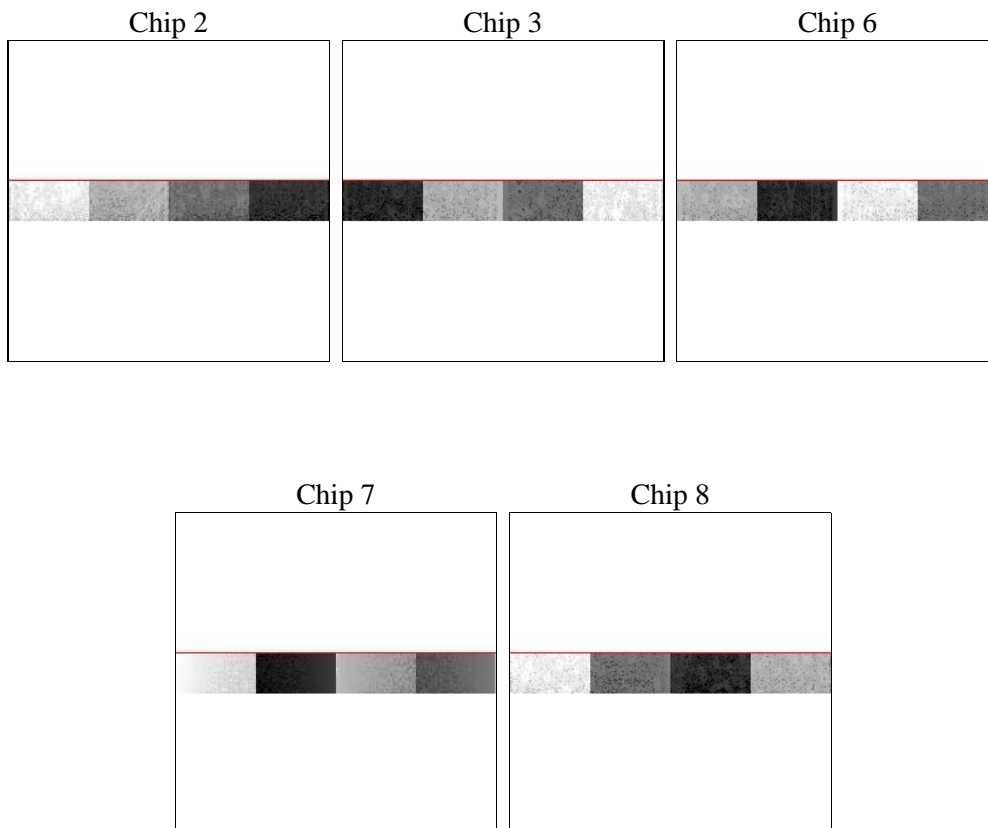
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15157.099741817	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	15157.099741817	Sum of GTIs [s]
date	2012-05-11T13:07:31	Date and time of file creation	ontime3	15156.358721733	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15157.099741817	Sum of GTIs [s]
			ontime7	15157.099741817	Sum of GTIs [s]
			ontime8	15157.099741817	Sum of GTIs [s]
			l1events	127864	Number of level 1 events

2.1.4 Events

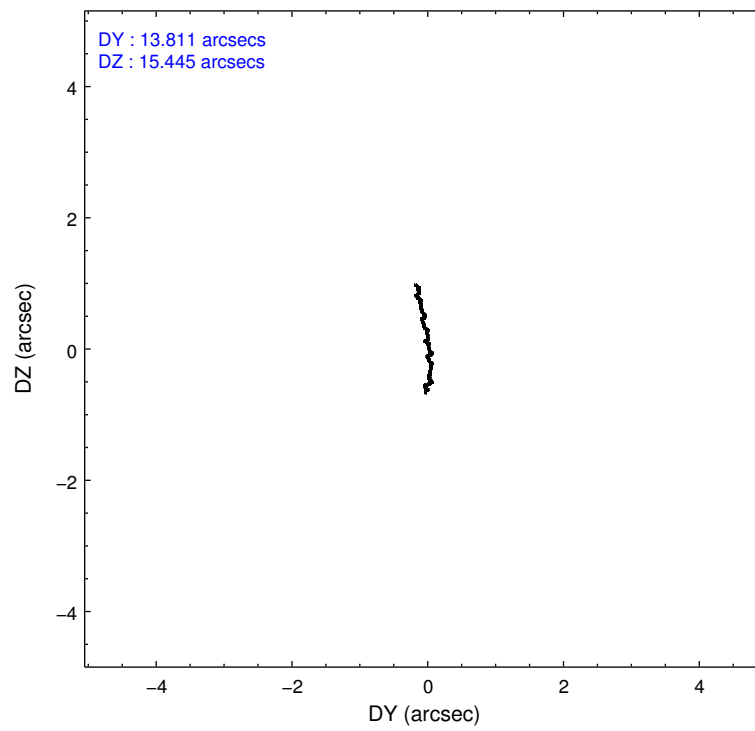
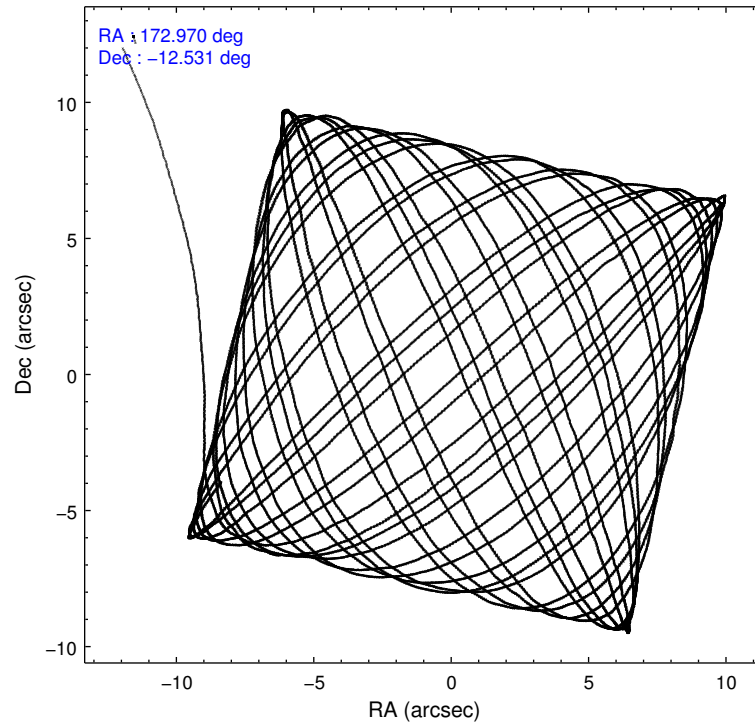
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	20643	20319	22209	31996	32697
rejected events	18671	18440	20003	12372	26436
rejected %	90%	90%	90%	38%	80%

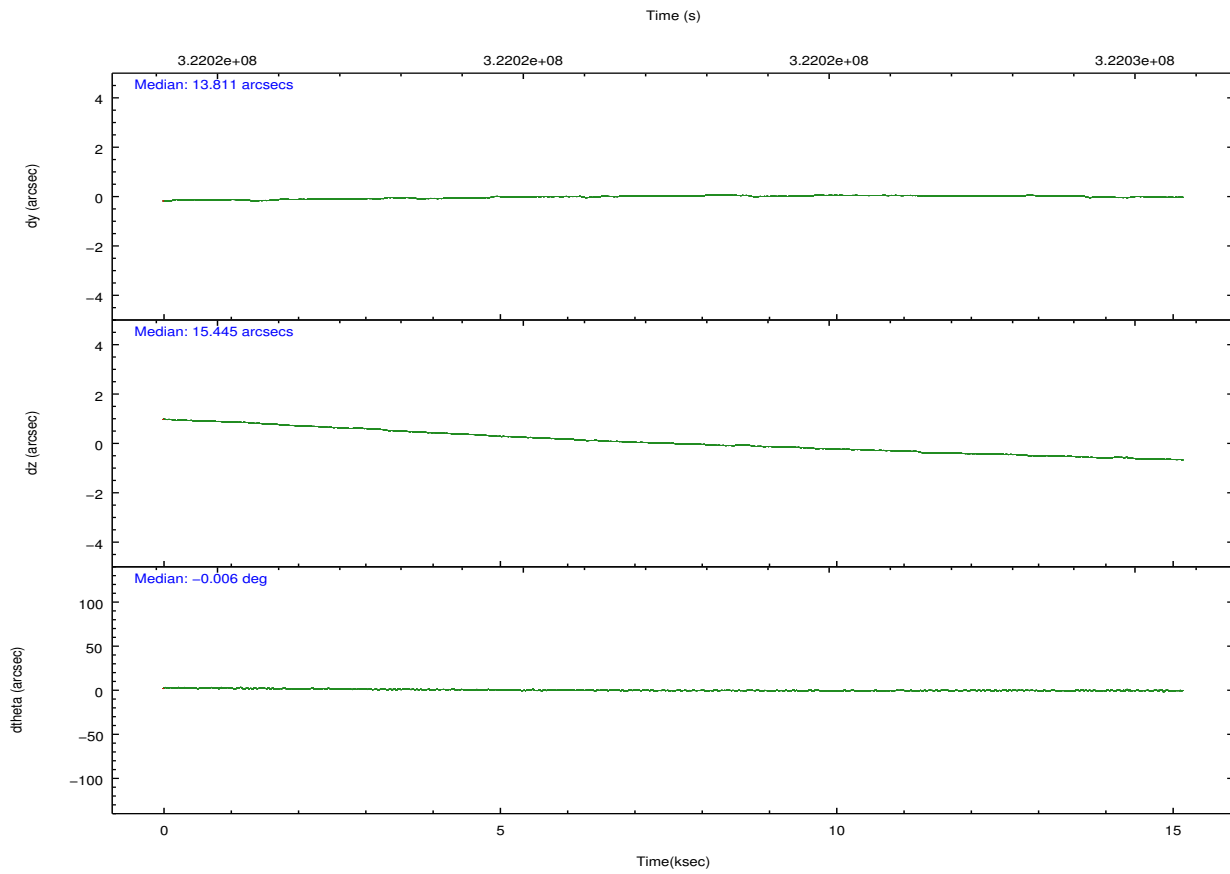
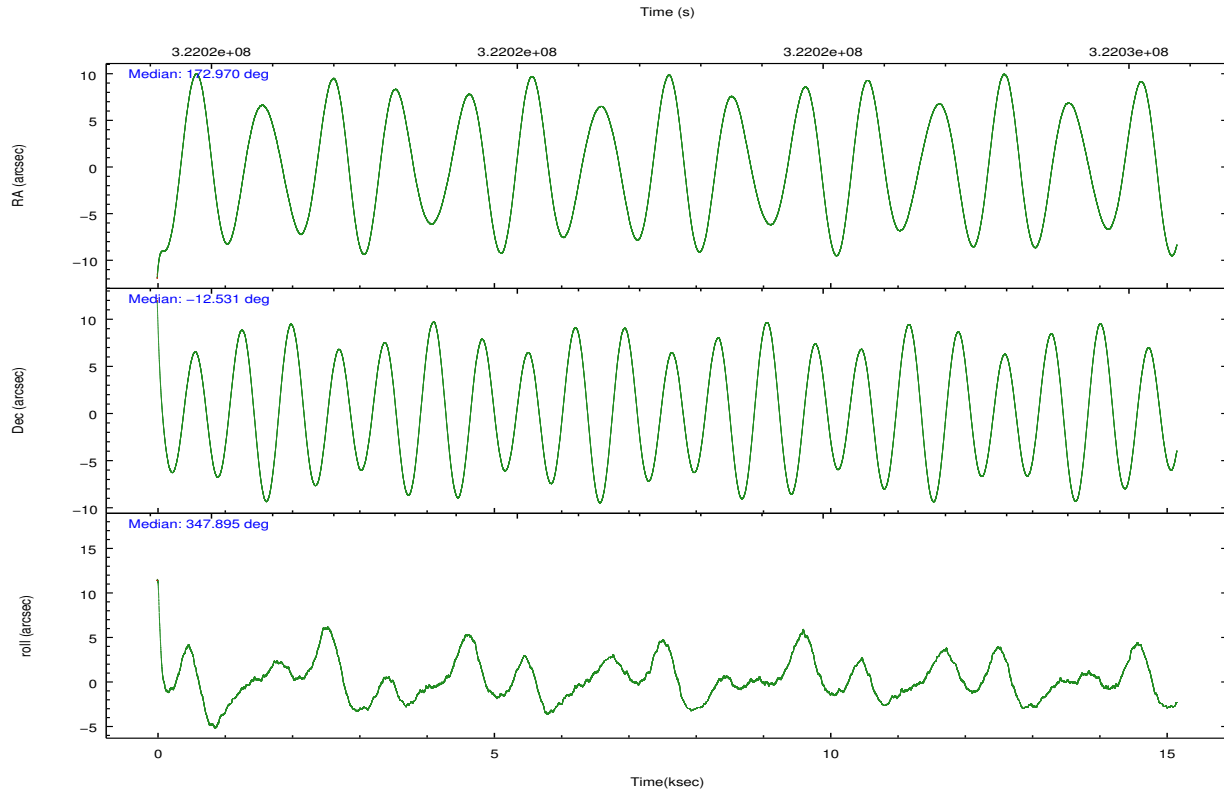
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	622	543	697	4102	1610
	3%	2%	3%	12%	4%
grade 1 events	7	2	1	128	11
	0%	0%	0%	0%	0%
grade 2 events	397	367	393	4907	1404
	1%	1%	1%	15%	4%
grade 3 events	391	409	444	2364	761
	1%	2%	1%	7%	2%
grade 4 events	405	393	424	2327	703
	1%	1%	1%	7%	2%
grade 5 events	555	670	739	2394	998
	2%	3%	3%	7%	3%
grade 6 events	336	323	396	6707	2328
	1%	1%	1%	20%	7%
grade 7 events	17930	17612	19115	9067	24882
	86%	86%	86%	28%	76%

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	172.943147	172.9696486322489	CCD I2 on	O1	Y
[deg] Pointing Dec	-12.539633	-12.53088696013558	CCD I3 on	O2	Y
[deg] Pointing Roll	347.738393	347.9007918749713	CCD S0 on	N	N
[s] Window start time (MET)	318211265.184000	318211265.184000	CCD S1 on	N	N
[s] Window stop time (MET)	323395265.184000	323395265.184000	CCD S2 on	O4	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.01257209746719923	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	322015026.184000	322013685.80483	On-chip summing requested	N	N
Observation start date	2008-03-16T00:36:01	2008-03-16T00:14:45	Subarray requested	CUSTOM	1/8
[s] Observation end time (MET)	322030026.184000	322030814.58066	Subarray start row	449	449
Observation end date	2008-03-16T04:46:01	2008-03-16T05:00:14	Subarray row count	128	128
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect



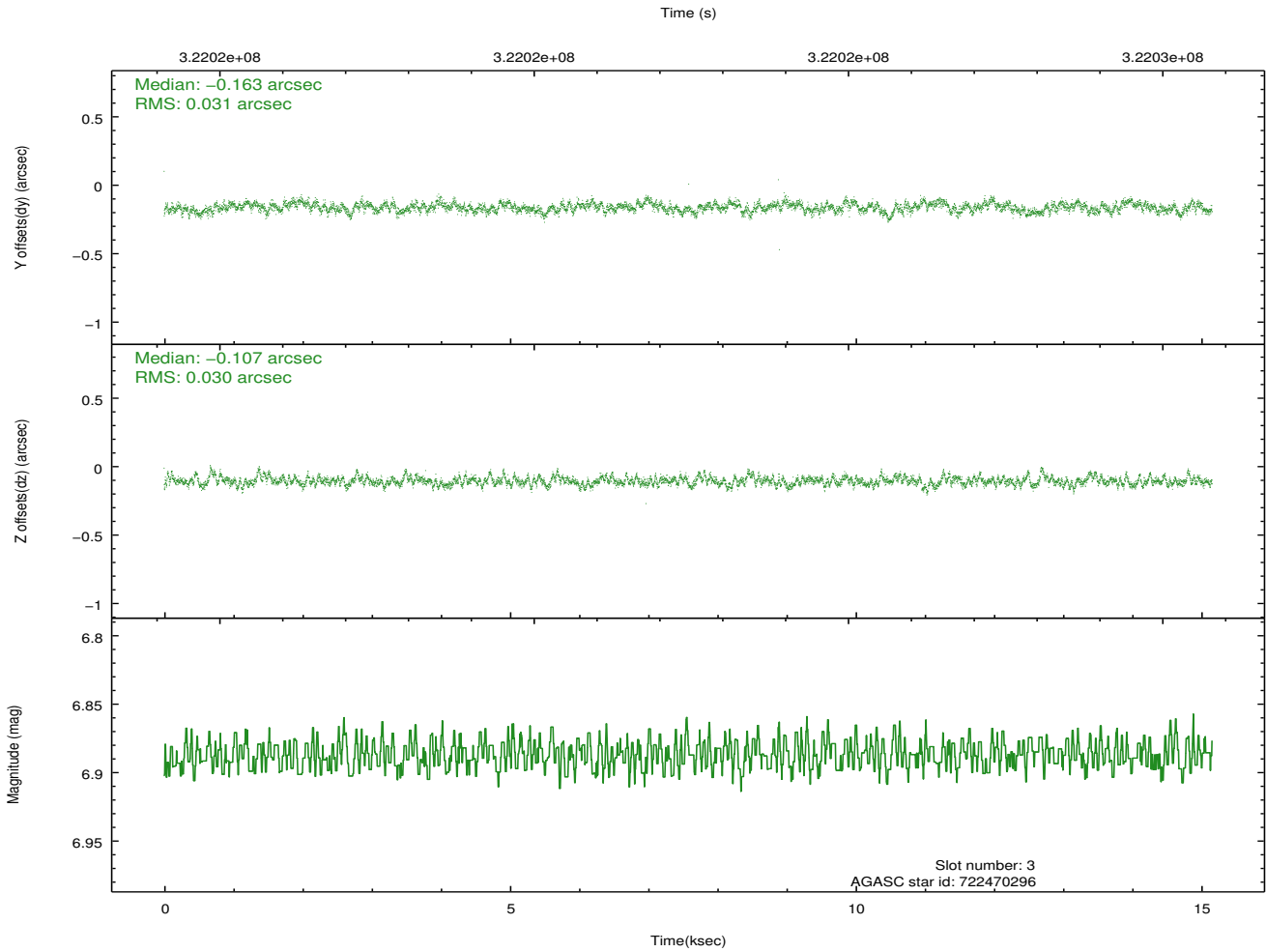
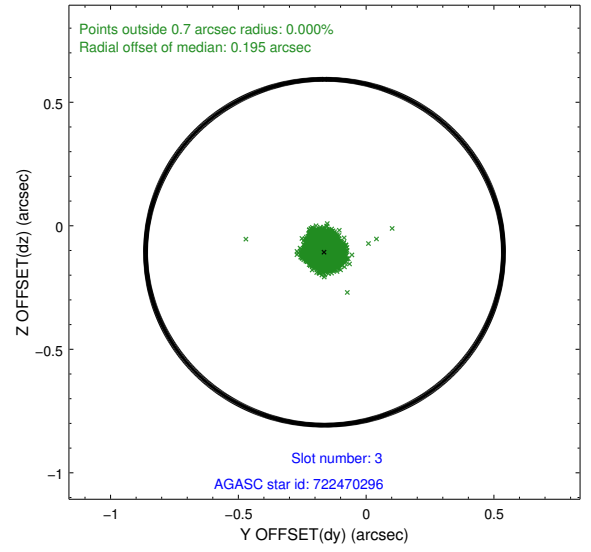
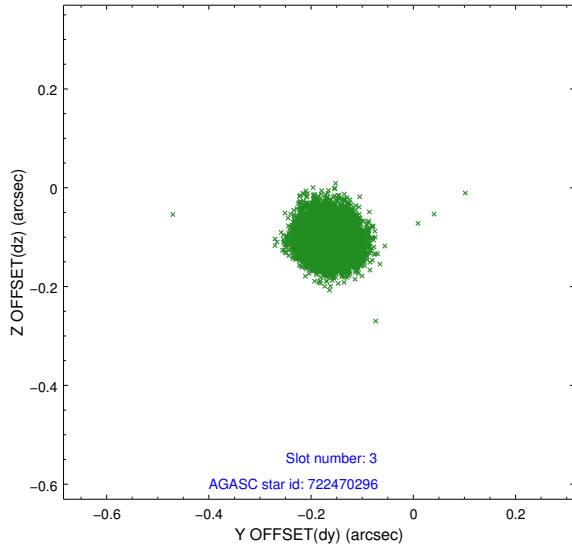


Slot Statistics

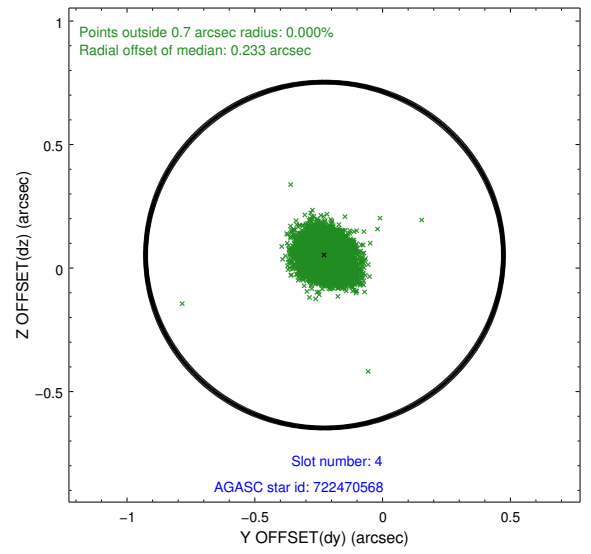
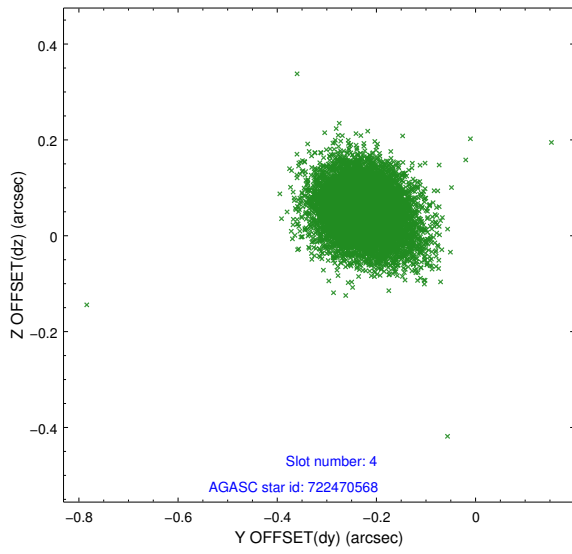
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.20	3698	0.036	-0.050	0.025	0.052	0.000000	0.000000	929.36	-1732.48
1	FID	ACIS-S-4	7.19	3698	0.133	0.023	0.015	0.021	0.000000	0.000000	2147.00	171.46
2	FID	ACIS-S-5	7.22	3698	-0.196	0.040	0.012	0.037	0.000000	0.000000	-1819.39	165.37
3	GUIDE	722470296	6.89	7394	-0.163	-0.107	0.045	0.073	172.921689	-12.381367	-194.79	540.95
4	GUIDE	722470568	8.87	7387	-0.227	0.053	0.078	0.125	173.210269	-12.342558	767.45	892.82
5	GUIDE	722473176	9.45	7373	0.128	0.065	0.147	0.228	172.599746	-12.066793	-1542.42	1406.10
6	GUIDE	722871728	9.65	7386	0.193	-0.137	0.149	0.236	173.202235	-12.568355	911.87	92.29
7	GUIDE	722873464	7.32	7390	0.073	0.125	0.057	0.095	172.661543	-13.050266	-573.47	-2006.60

2.4 Star Slots

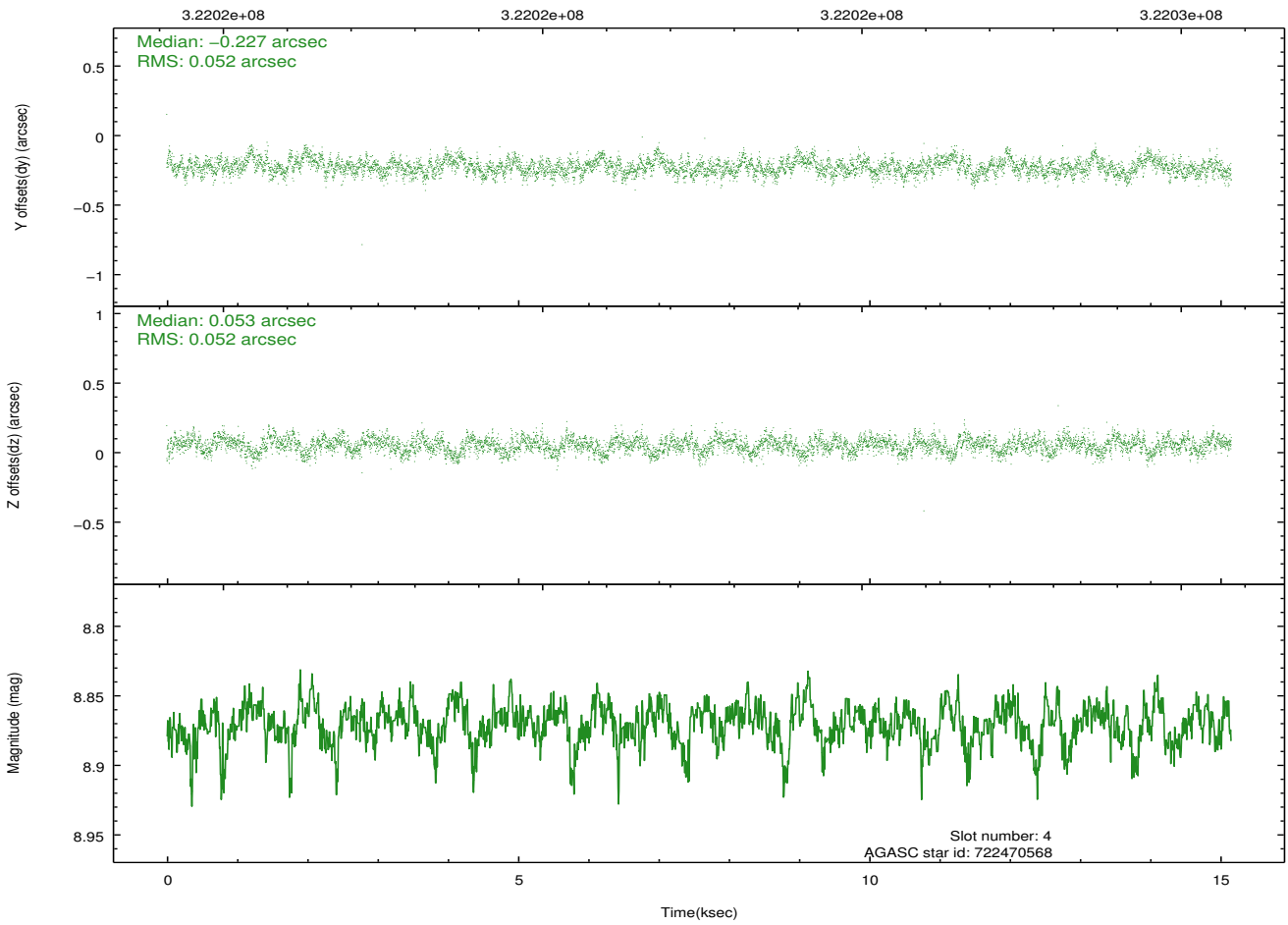
2.4.1 Slot 3



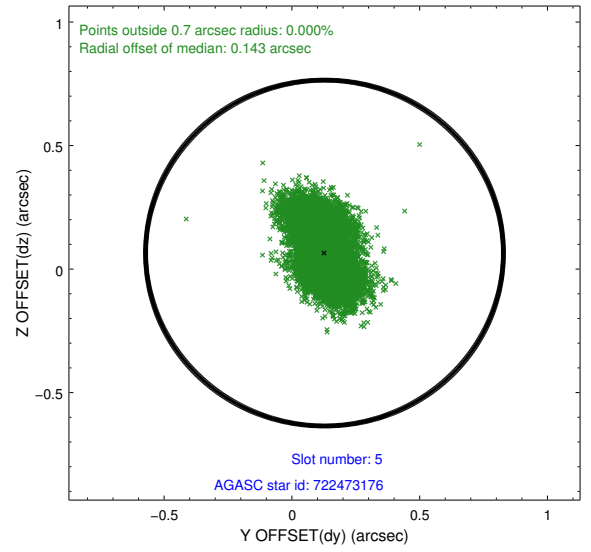
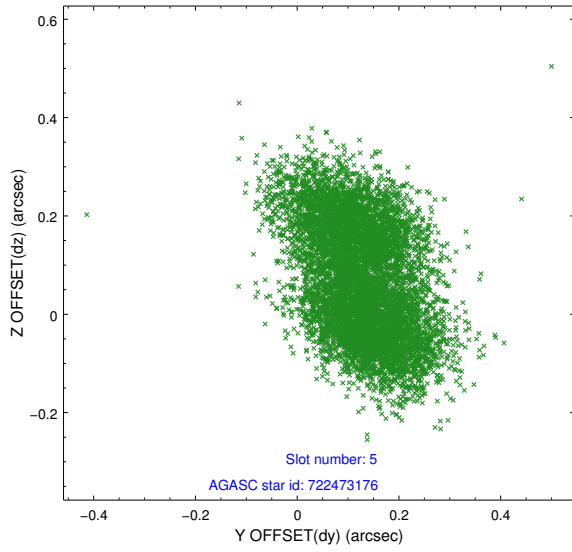
2.4.2 Slot 4



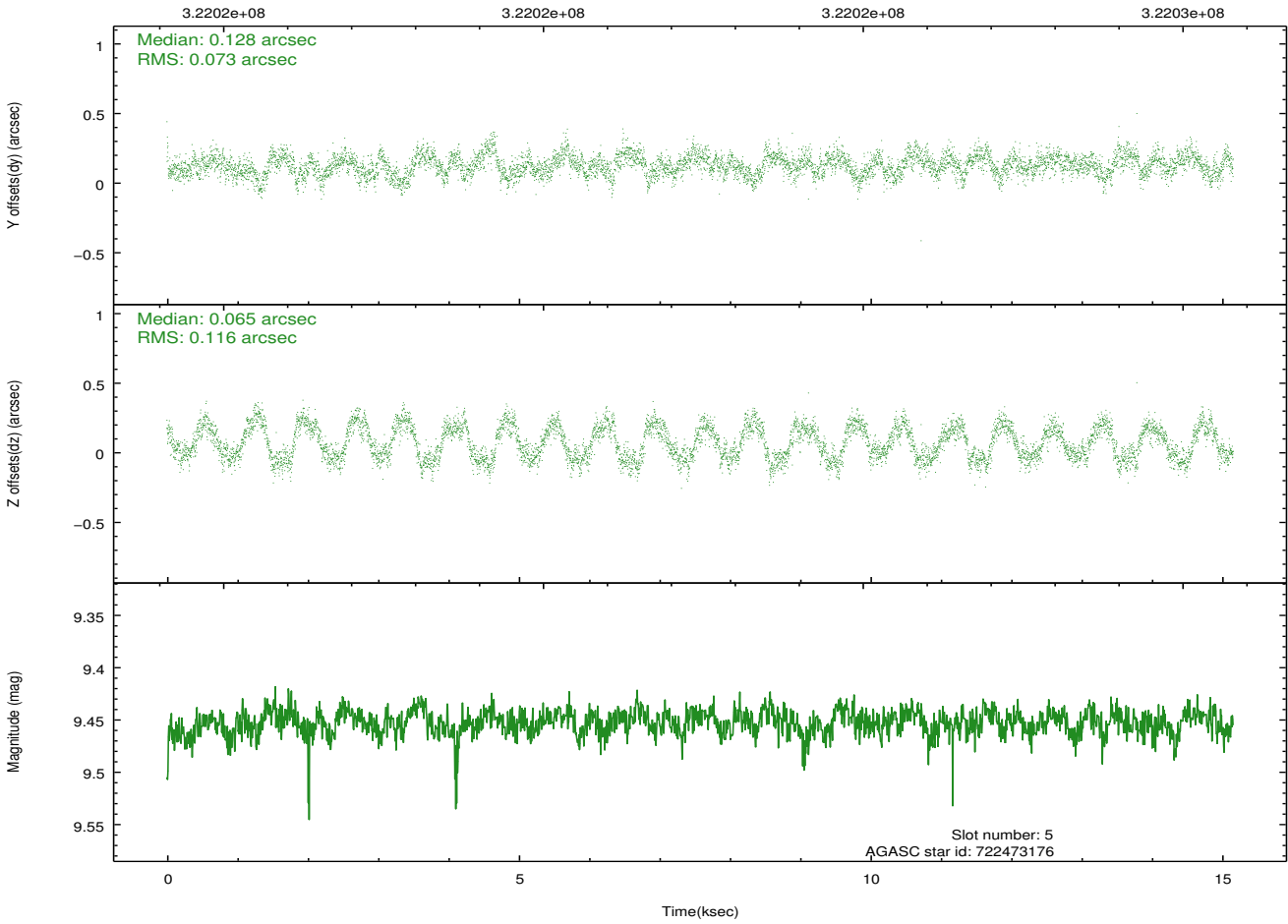
Time (s)



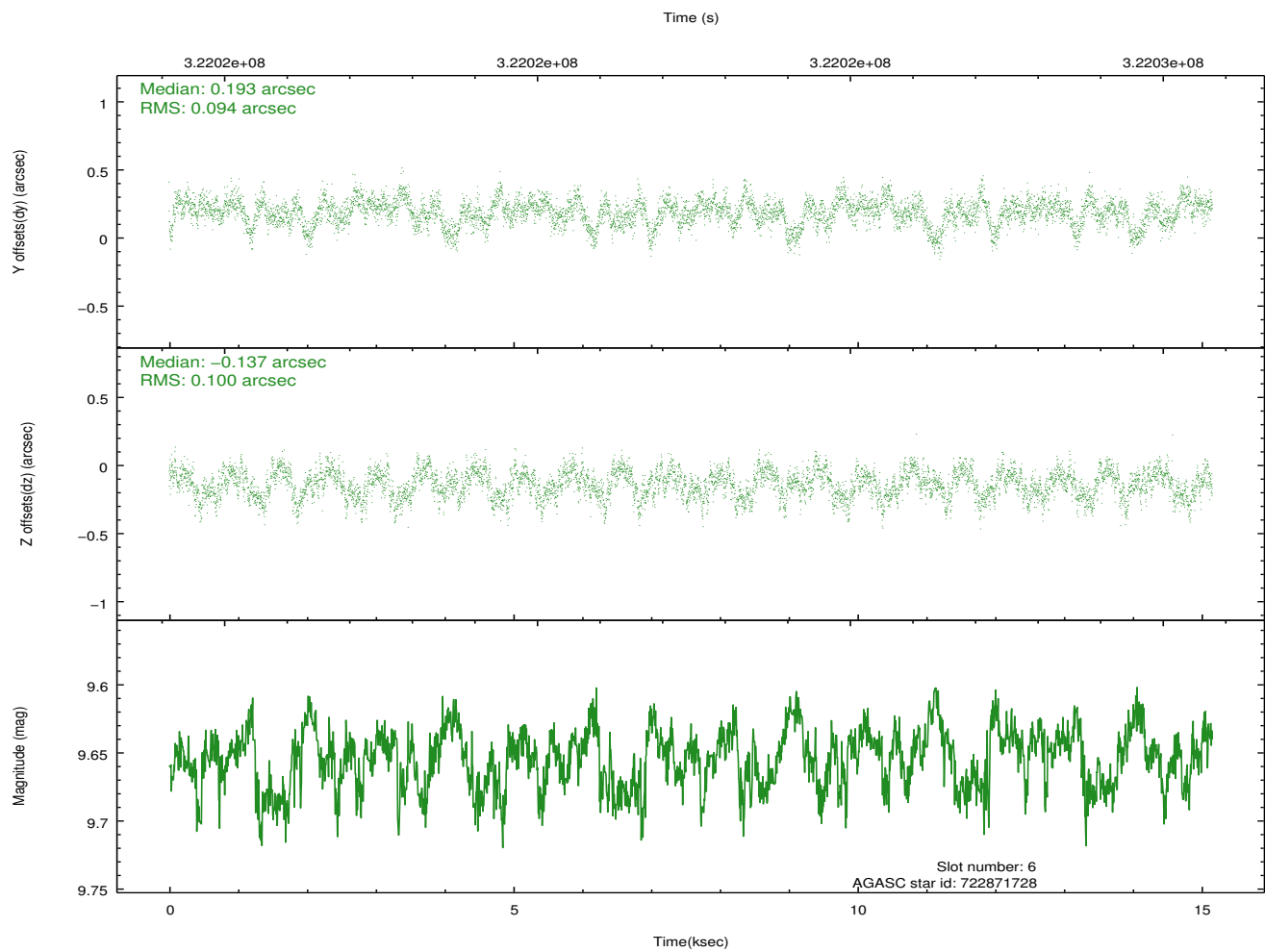
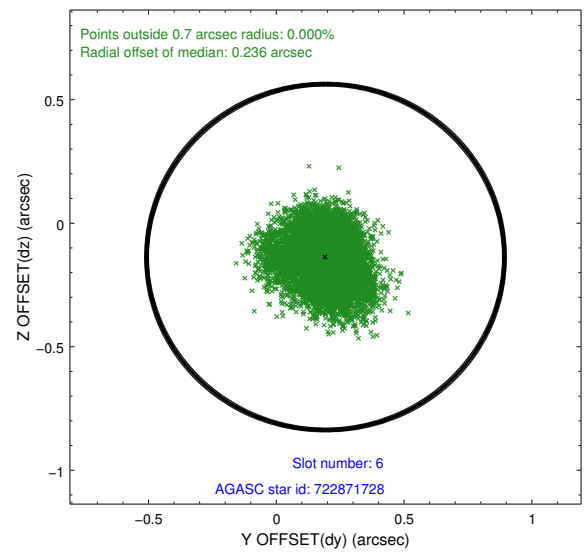
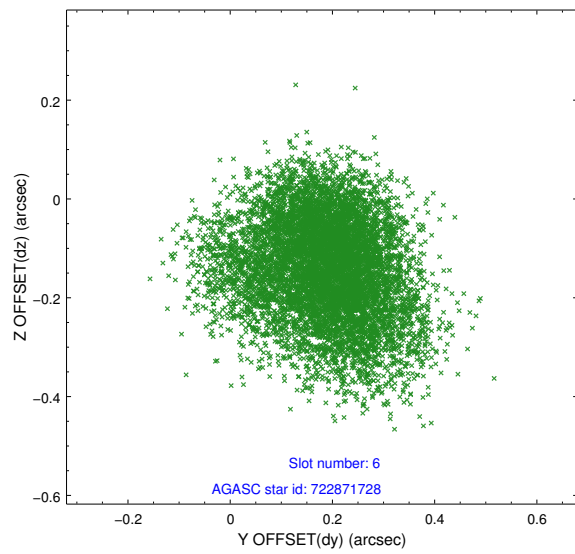
2.4.3 Slot 5



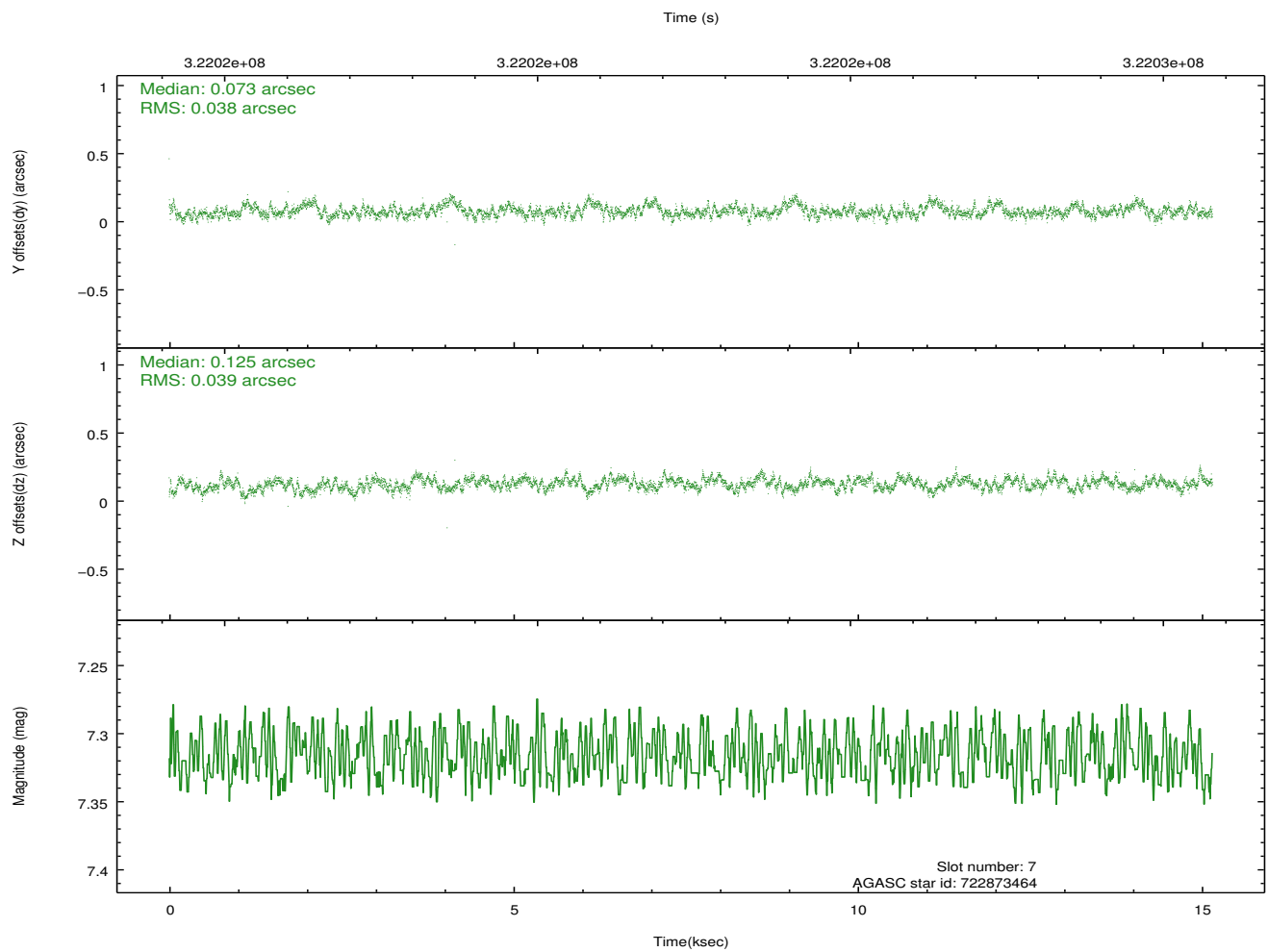
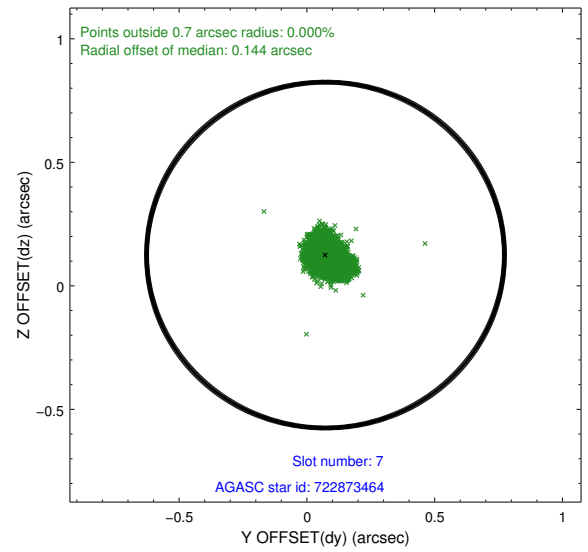
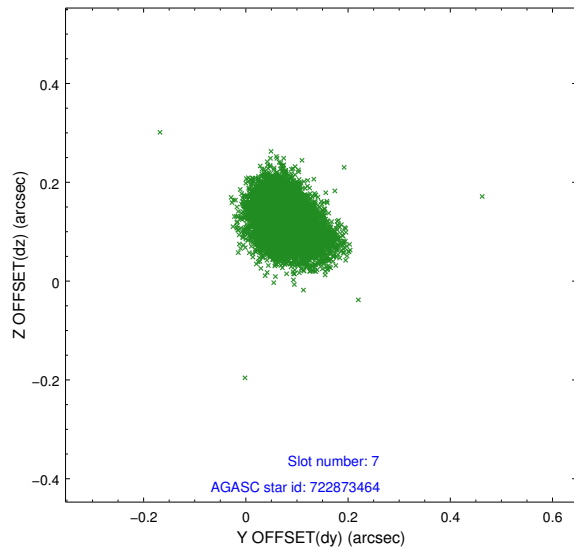
Time (s)



2.4.4 Slot 6

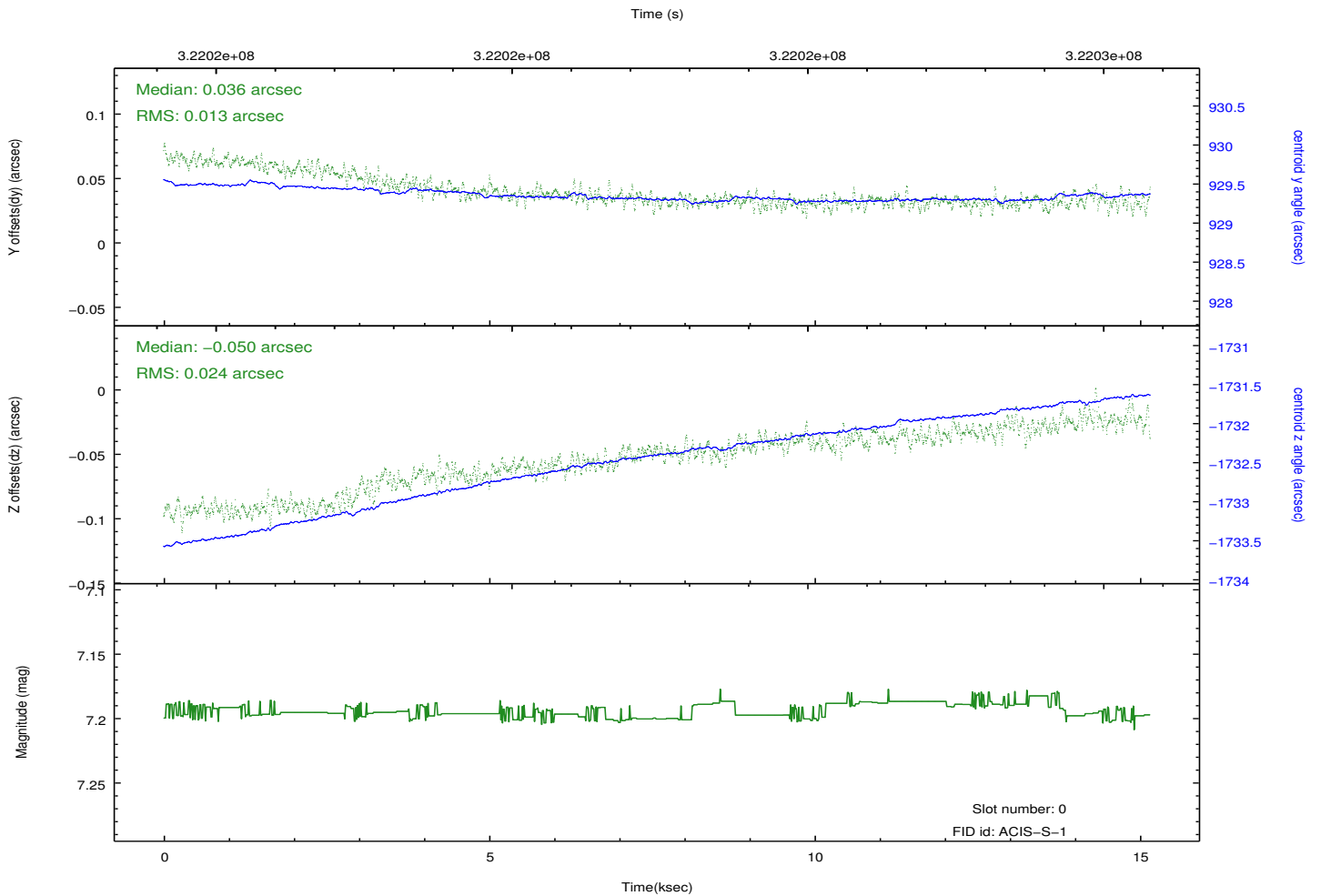
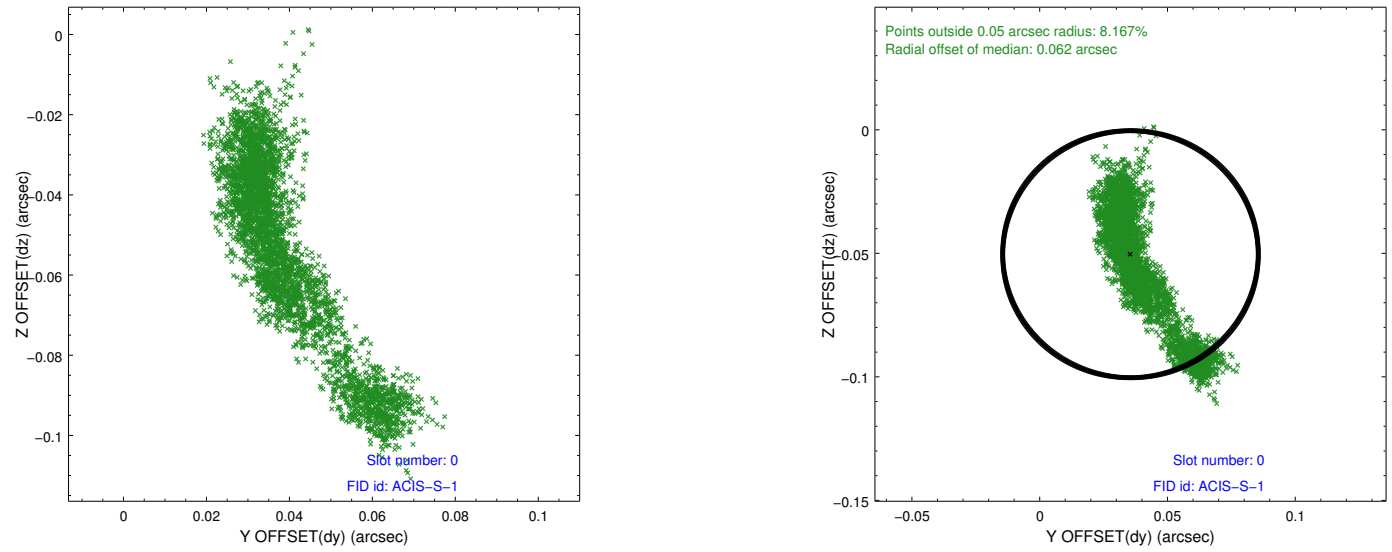


2.4.5 Slot 7

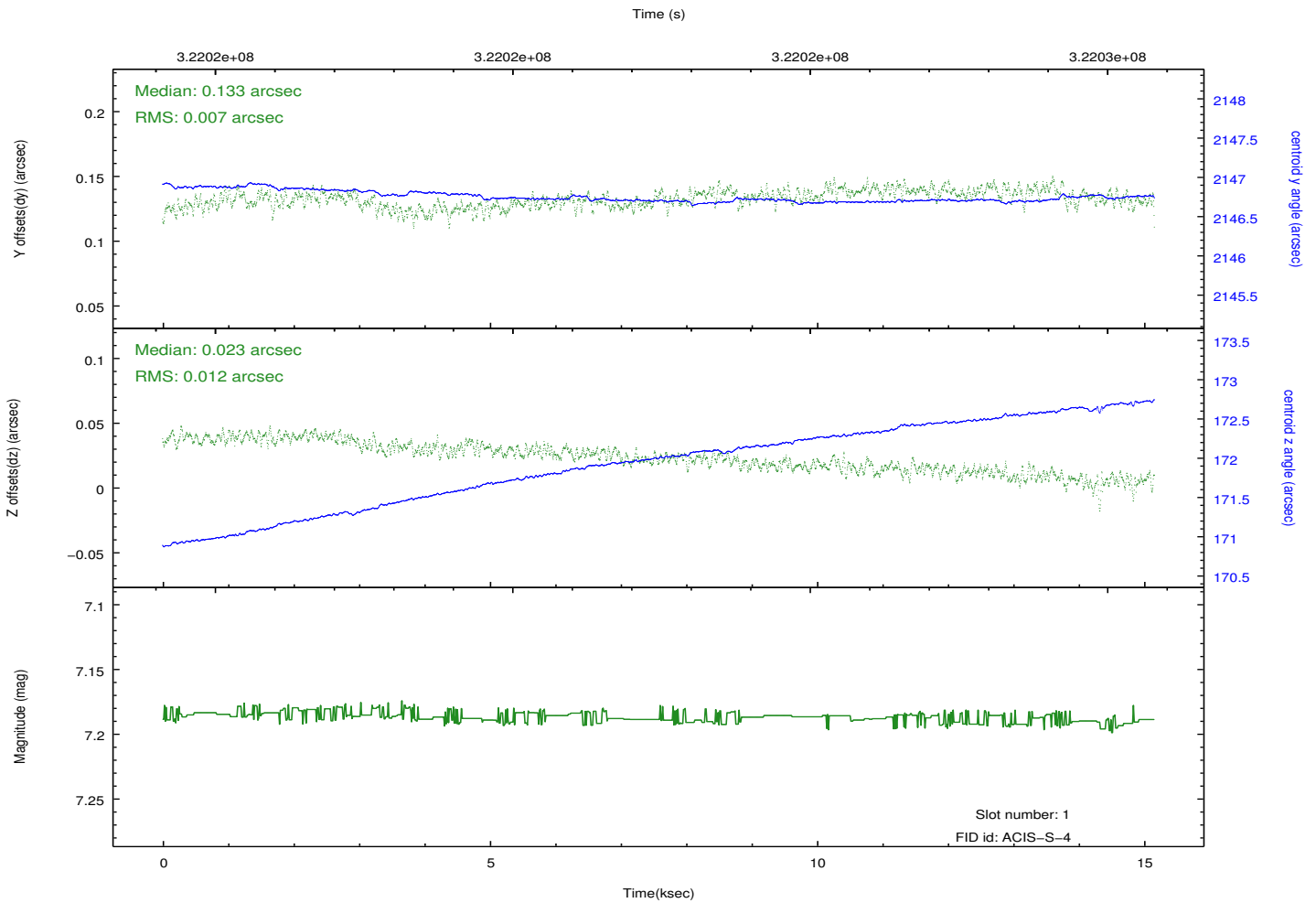
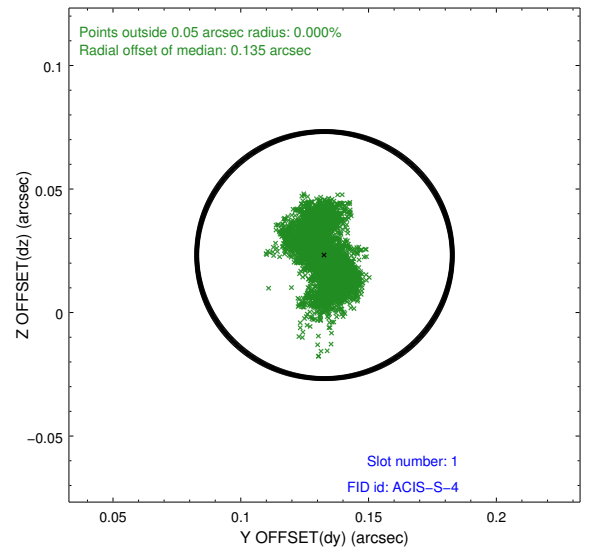
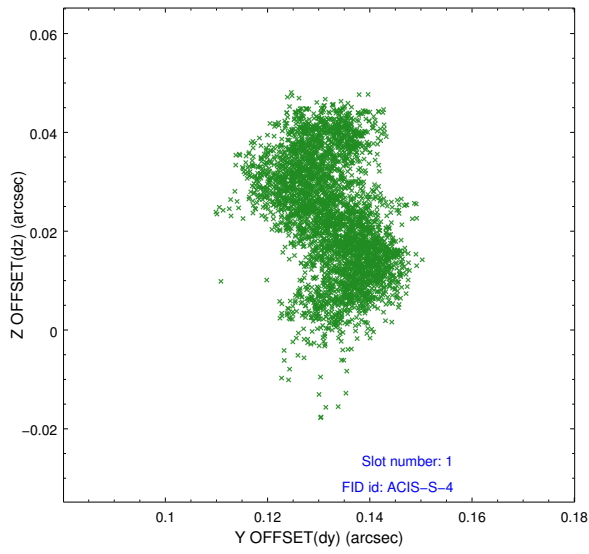


2.5 FID Slots

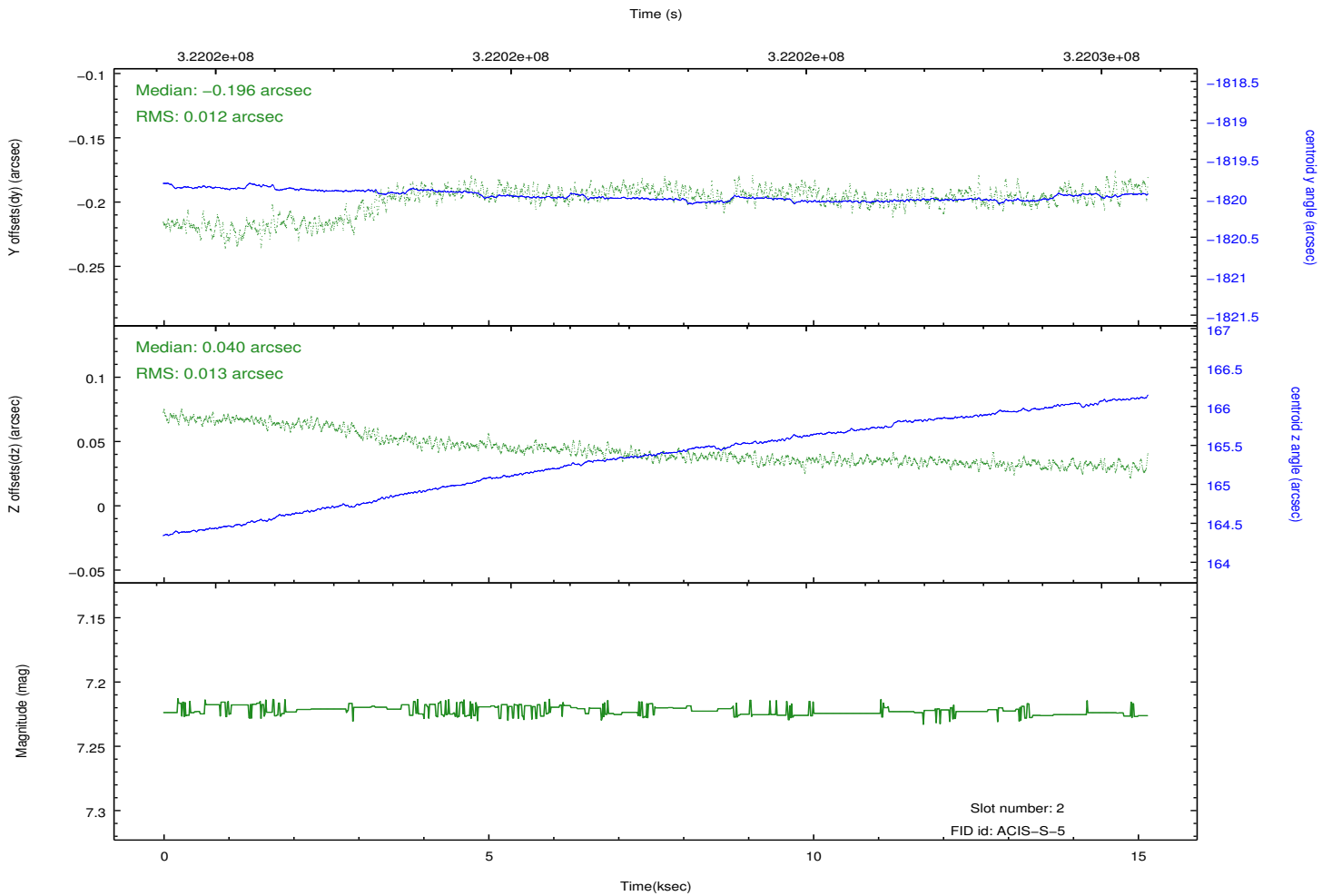
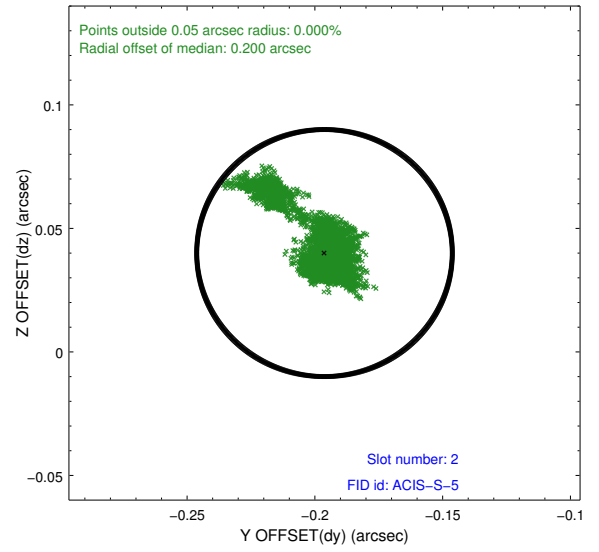
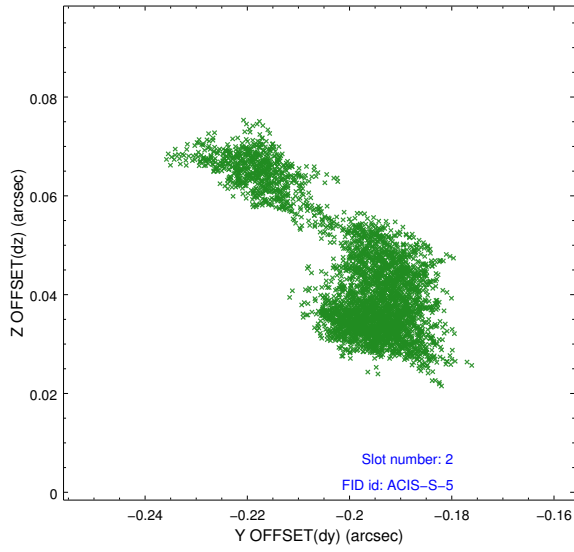
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1370998

A.2 Comments

Time constraint met.