

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17563 - L2 Version 1
Chandra X-Ray Center

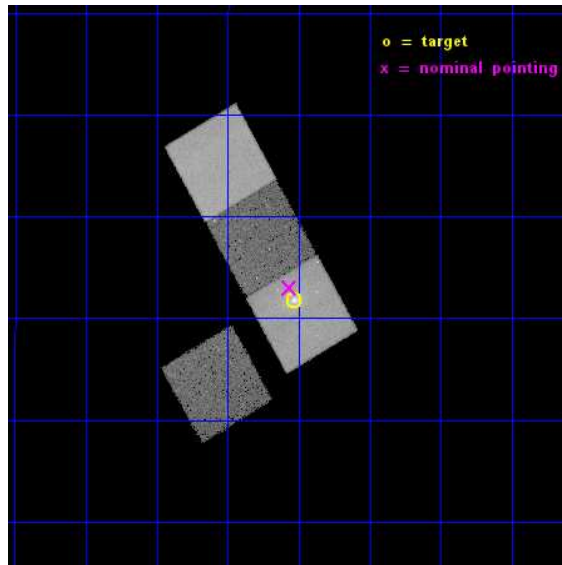
L2 Processing Date : Dec 29 2014

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1 Front

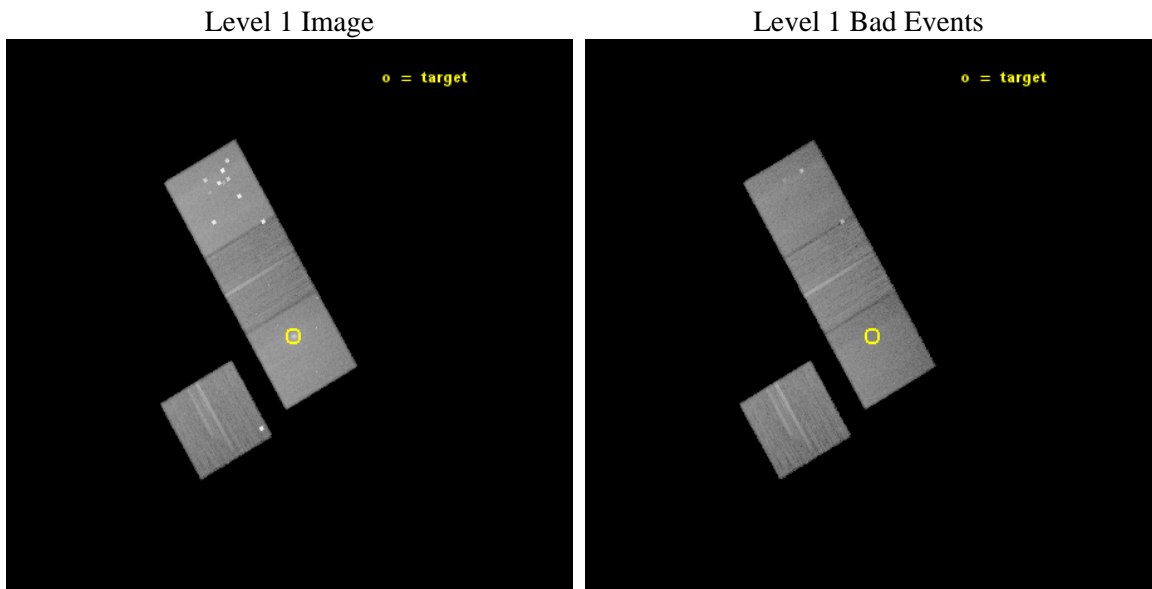
seq_num	801477	Sequence number
obs_id	17563	Observation id
title	X-ray Imaging of a Gas Rich BCG in the RXJ0821.0+0752 Cluster	Prop
observer	Dr. Brian McNamara	Principal investigator
object	RXJ0821.0+0752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.259167	Observer's specified target RA [deg]
dec_targ	7.863667	Observer's specified target Dec [deg]
ra_nom	125.26669724329	Nominal RA [deg]
dec_nom	7.8834534124457	Nominal Dec [deg]
roll_nom	60.155601463763	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37823.100290895	Sum of GTIs [s]
livetime	37328.913640633	Livetime [s]
ontime3	37823.100290895	Sum of GTIs [s]
ontime5	37823.100290895	Sum of GTIs [s]
ontime6	37823.100290895	Sum of GTIs [s]
ontime7	37823.100290895	Sum of GTIs [s]
l2events	284541	Number of level 2 events



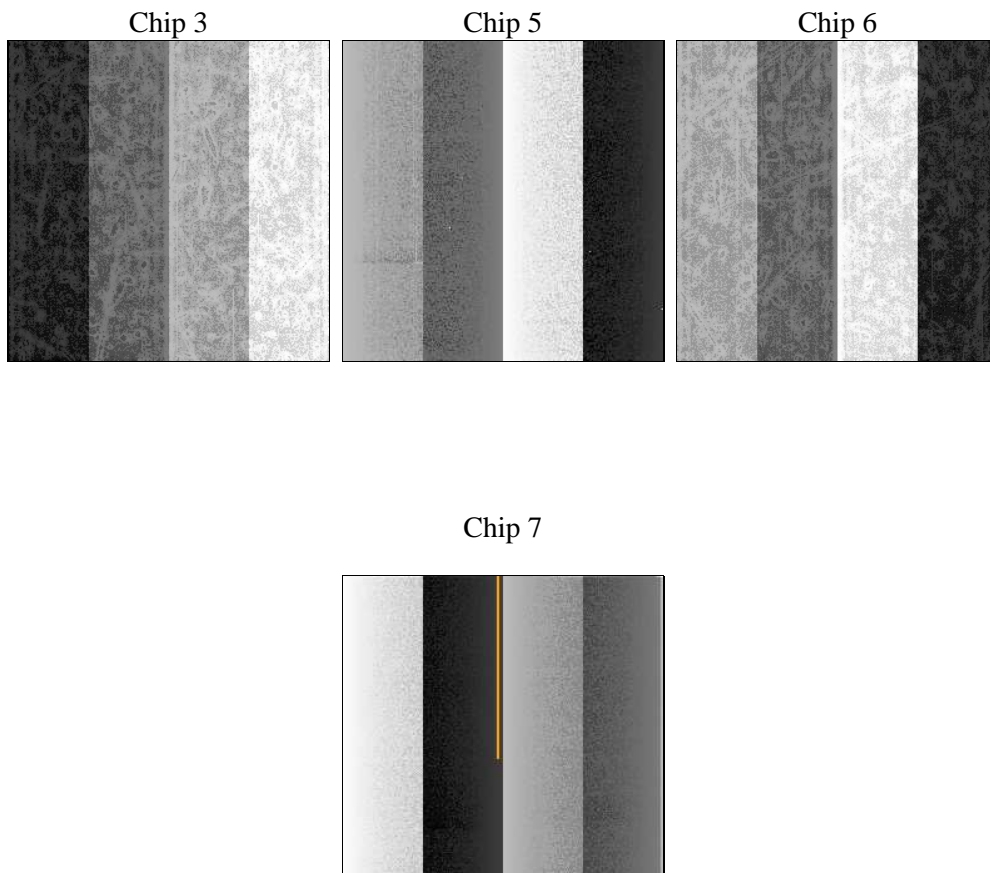
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	37749.158000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	37823.100290895	Sum of GTIs [s]
caldsver	4.6.5	 	ontime3	37823.100290895	Sum of GTIs [s]
date	2014-12-29T14:30:37	Date and time of file creation	ontime5	37823.100290895	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	37823.100290895	Sum of GTIs [s]
			ontime7	37823.100290895	Sum of GTIs [s]
			l1events	977855	Number of level 1 events

2.1.4 Events

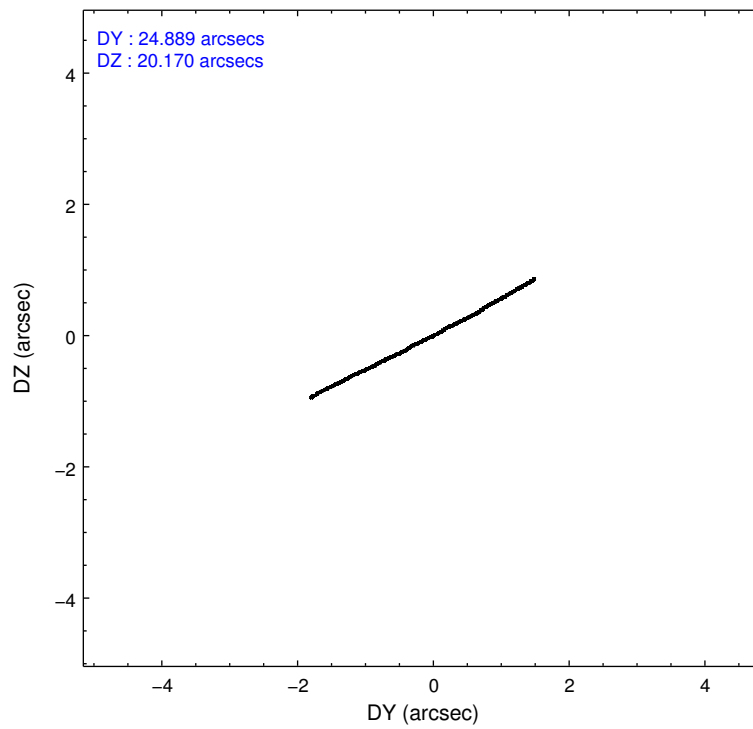
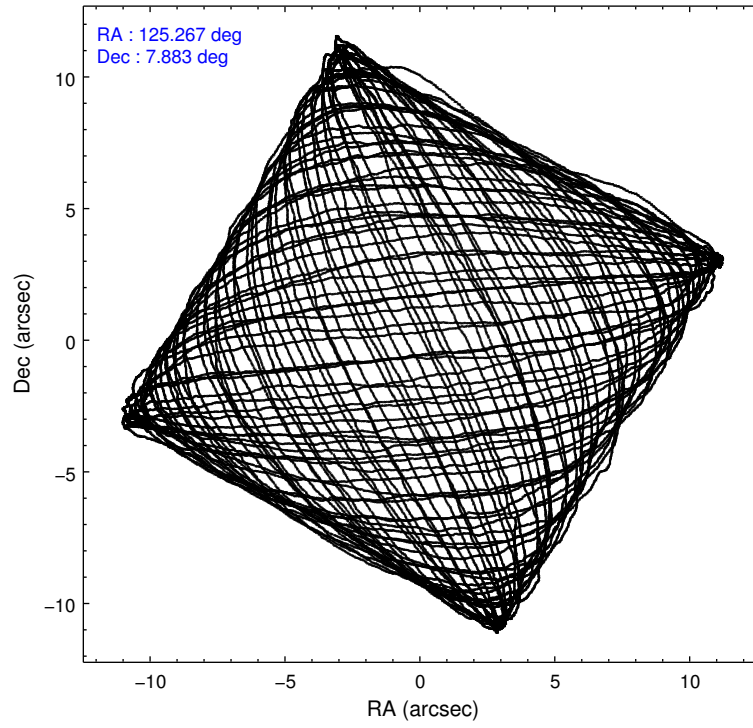
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	178763	362630	180466	255996
rejected events	147719	156121	157872	136944
rejected %	82%	43%	87%	53%

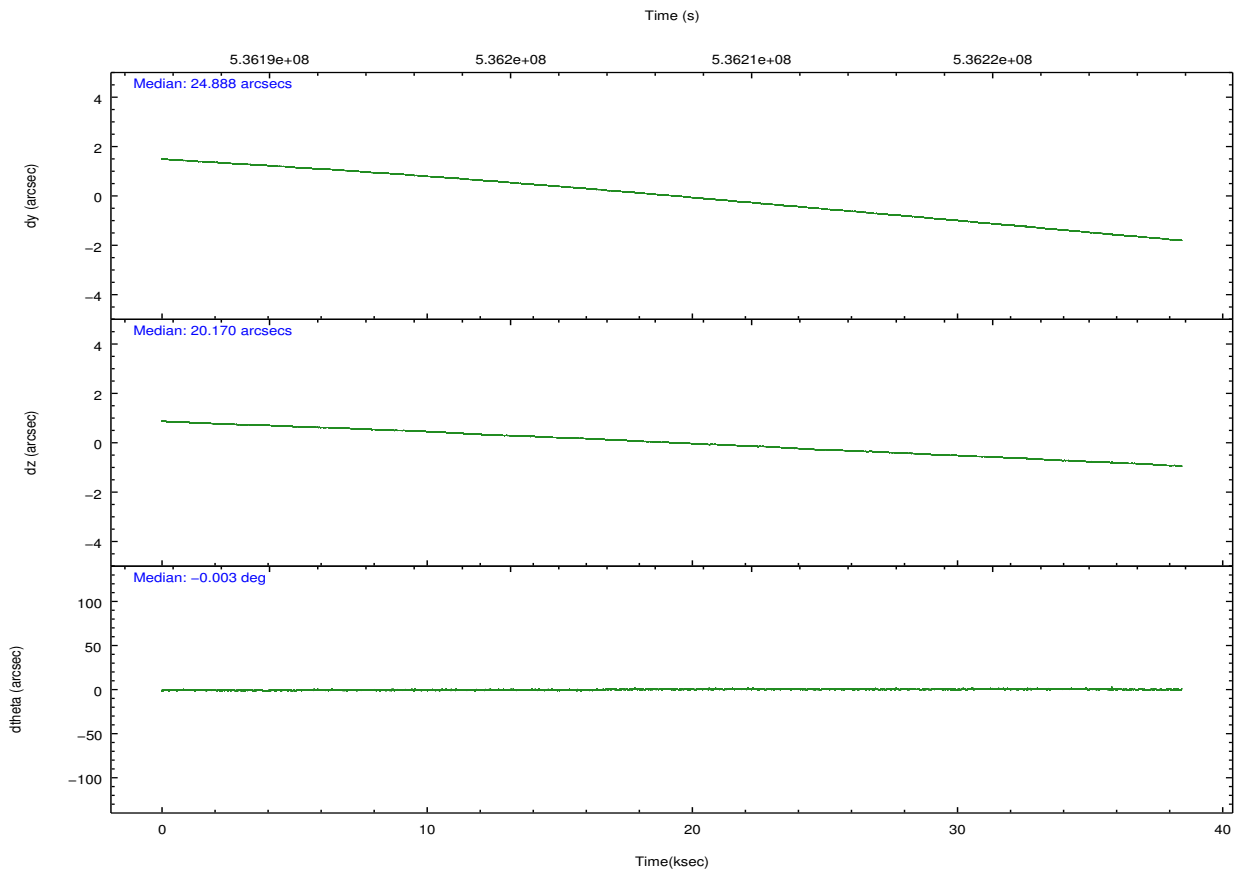
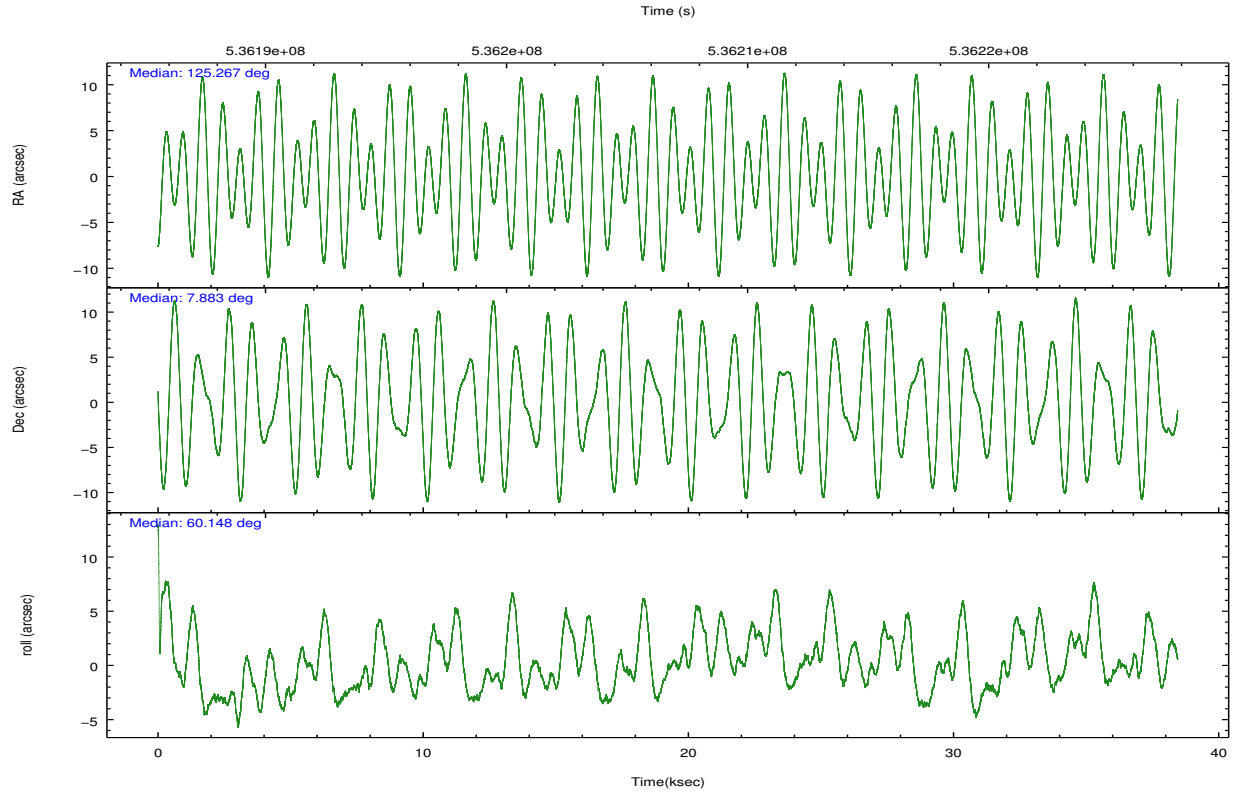
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	18468	58584	7910	13851
	10%	16%	4%	5%
grade 1 events	124	1318	92	282
	0%	0%	0%	0%
grade 2 events	4214	53612	5065	25571
	2%	14%	2%	9%
grade 3 events	2104	6423	2137	10158
	1%	1%	1%	3%
grade 4 events	2102	7084	2199	9900
	1%	1%	1%	3%
grade 5 events	9114	21477	9122	23734
	5%	5%	5%	9%
grade 6 events	4158	80823	5287	59579
	2%	22%	2%	23%
grade 7 events	138479	133309	148654	112921
	77%	36%	82%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	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	125.267145	125.2666972432852	CCD I2 on	O1	N
[deg] Pointing Dec	7.856024	7.88345341244566	CCD I3 on	O2	Y
[deg] Pointing Roll	59.998903	60.1556014637632	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	N	N
[s] Observation start time (MET)	536188159.184000	536187016.71188	CCD S5 on	N	N
Observation start date	2014-12-28T21:08:12	2014-12-28T20:50:16	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	536225908.184000	536226134.30156	On-chip summing requested	N	N
Observation end date	2014-12-29T07:37:21	2014-12-29T07:42:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





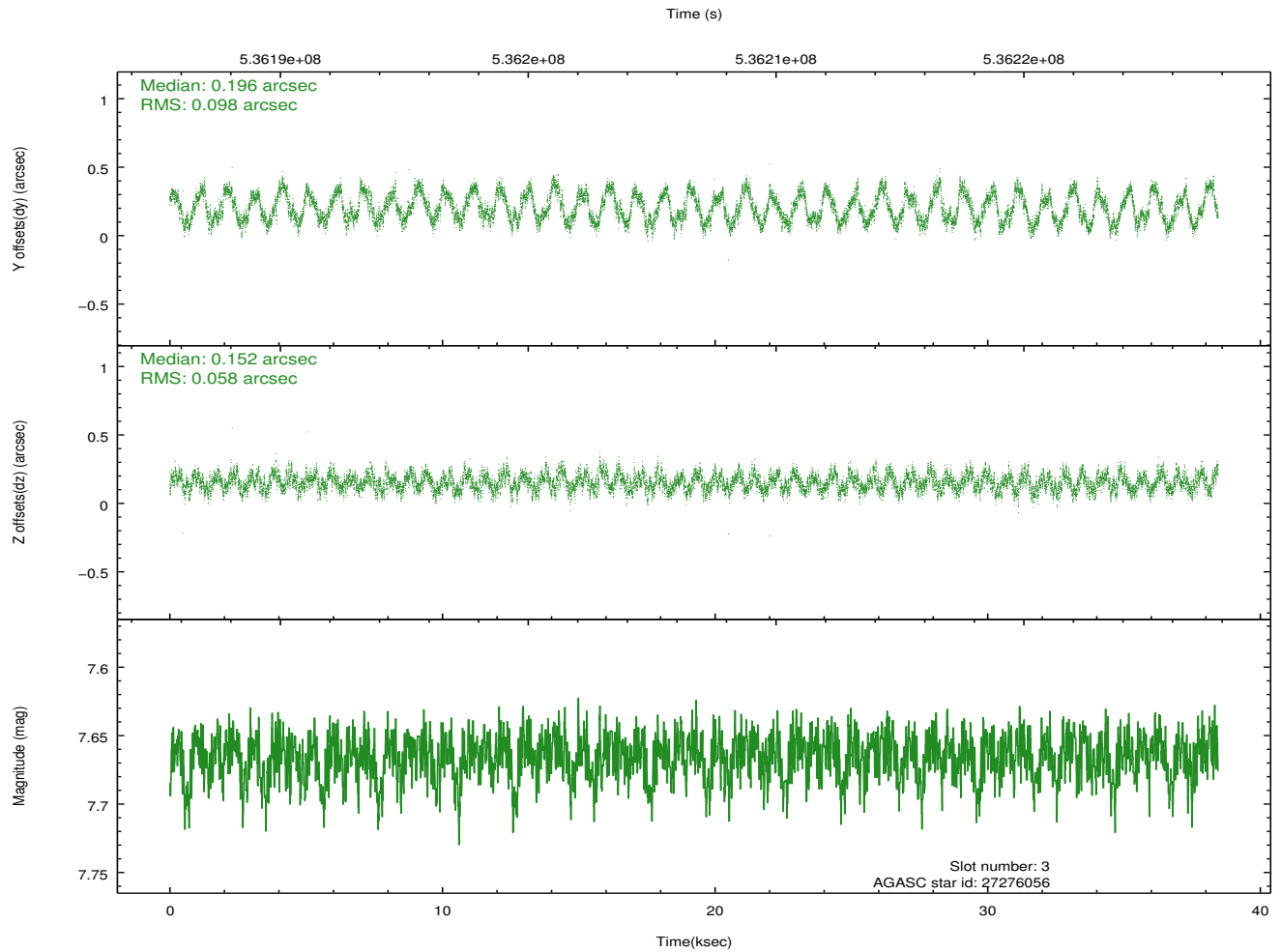
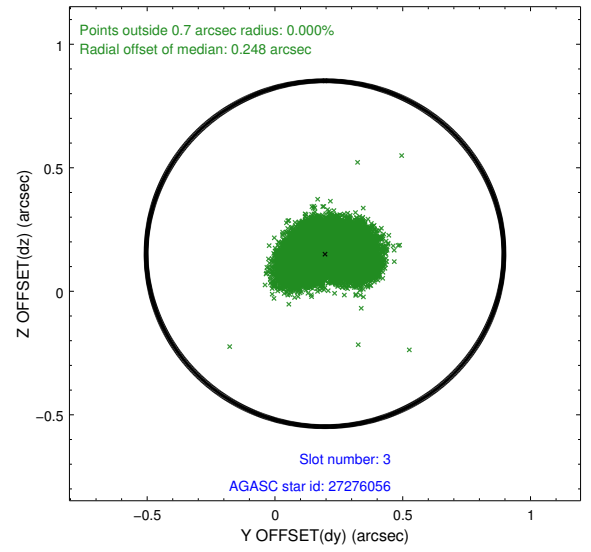
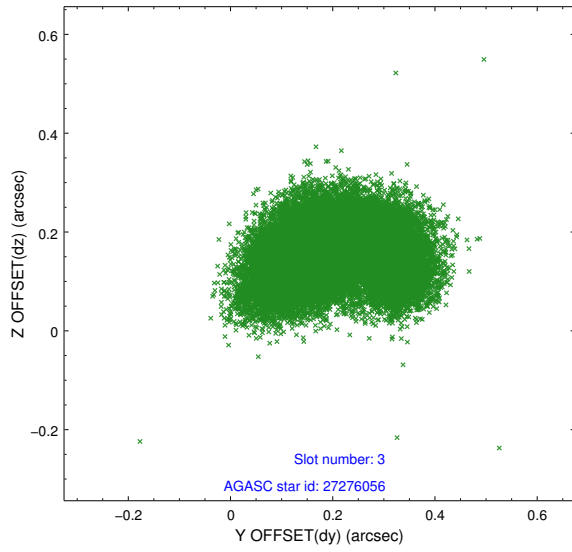
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	9380	-0.203	-0.067	0.022	0.069	0.000000	0.000000	-778.29	-1741.69
1	FID		ACIS-S-4	7.19	9379	0.385	0.115	0.011	0.031	0.000000	0.000000	2135.57	166.92
2	FID		ACIS-S-5	7.20	9380	-0.216	-0.042	0.026	0.065	0.000000	0.000000	-1831.11	160.51
3	GUIDE	used	27276056	7.67	18759	0.196	0.152	0.125	0.183	125.347486	7.386536	-1319.45	-1093.37
4	GUIDE	used	27396400	8.49	18756	0.190	0.256	0.096	0.153	125.683769	7.499330	-367.04	-1929.18
5	GUIDE	used	104214016	9.22	18752	-0.009	-0.047	0.133	0.220	125.978575	8.019253	1779.61	-1901.19
6	GUIDE	used	104217328	8.41	18755	-0.013	0.078	0.091	0.152	125.839356	7.722415	605.66	-2007.23
7	GUIDE	used	104202616	9.47	18734	-0.381	-0.442	0.170	0.259	125.143469	8.504755	1802.34	1549.05

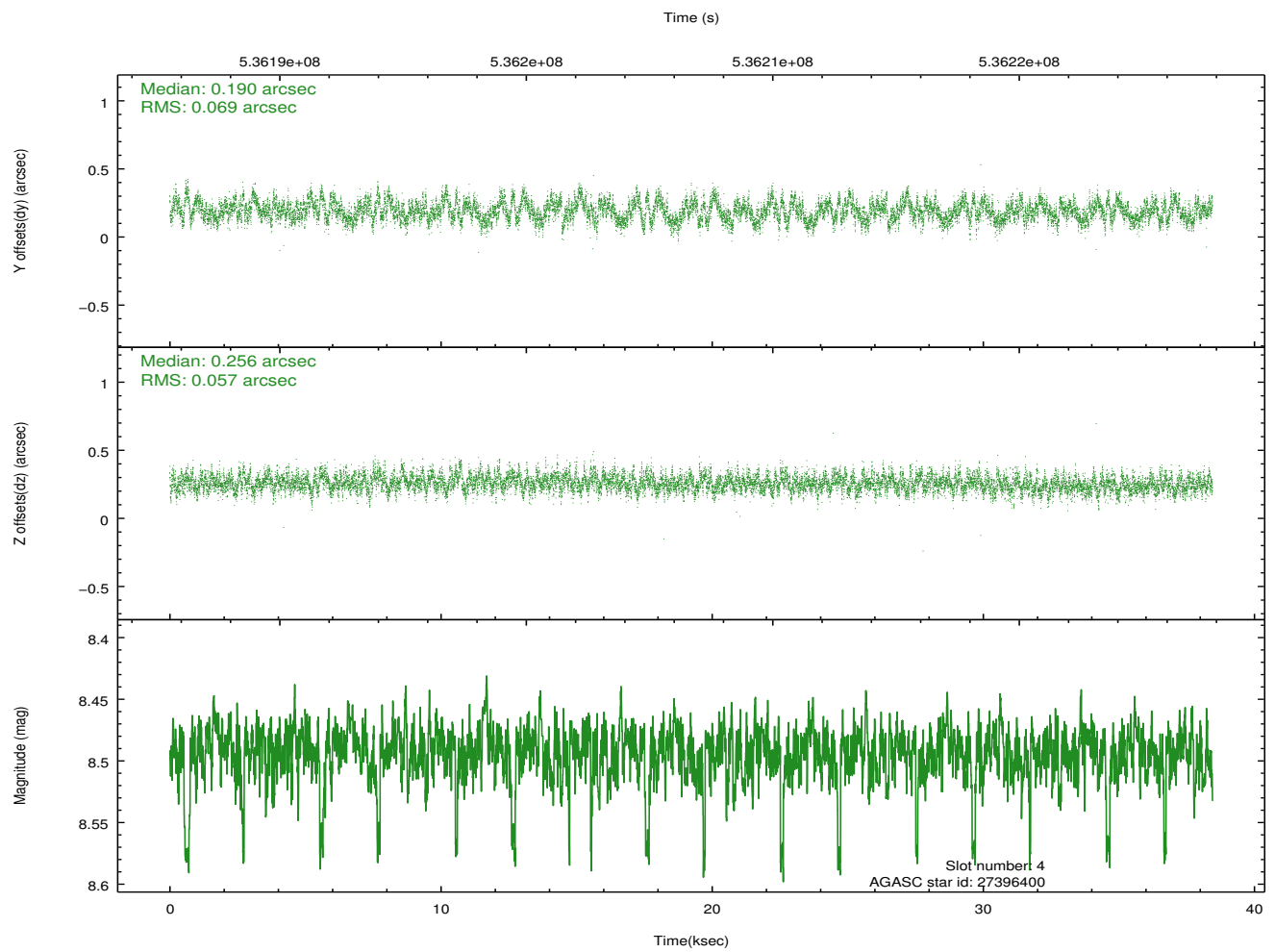
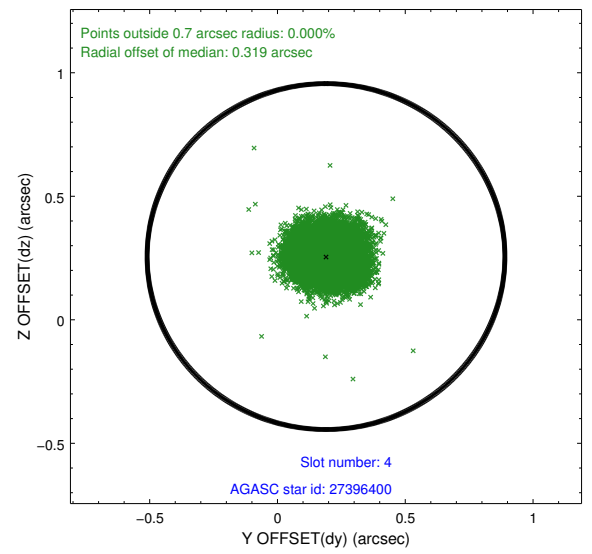
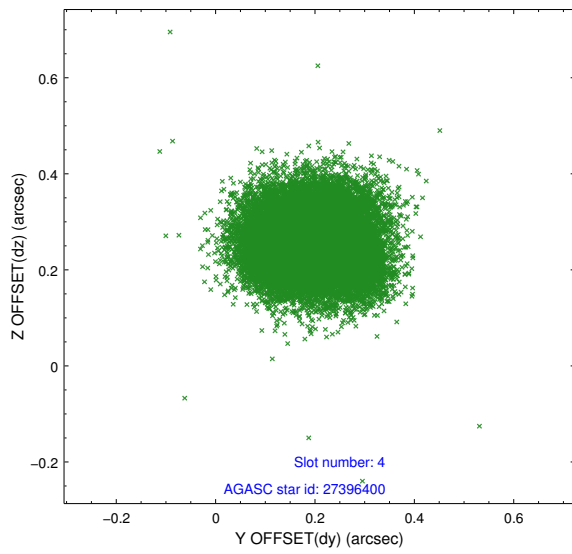
∞

2.4 Star Slots

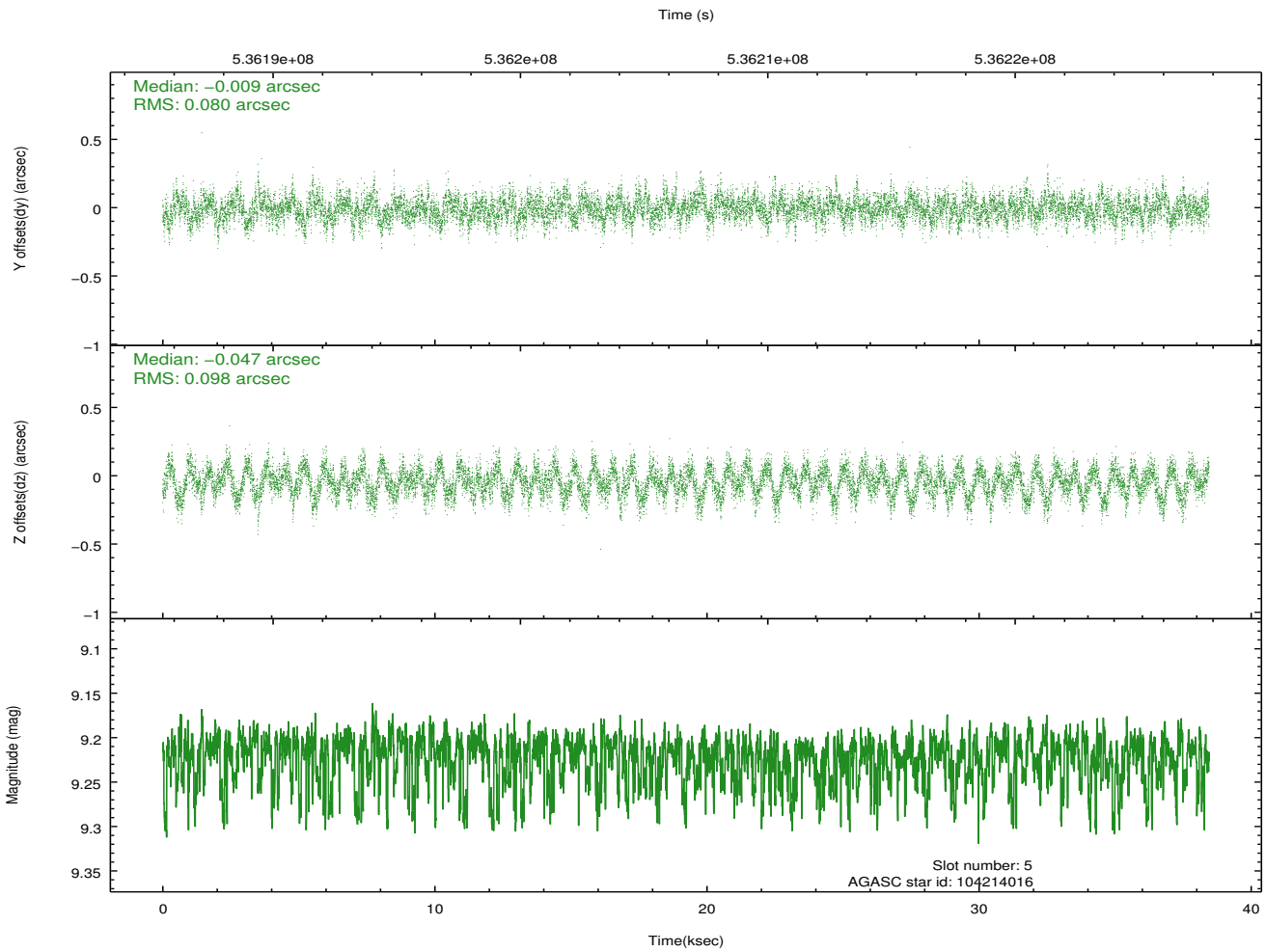
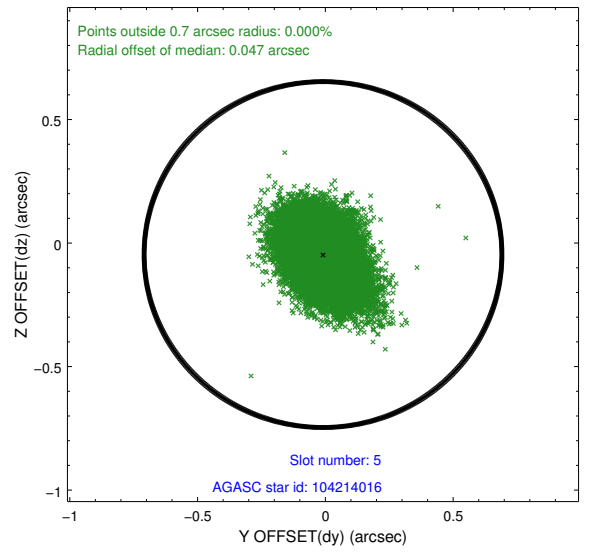
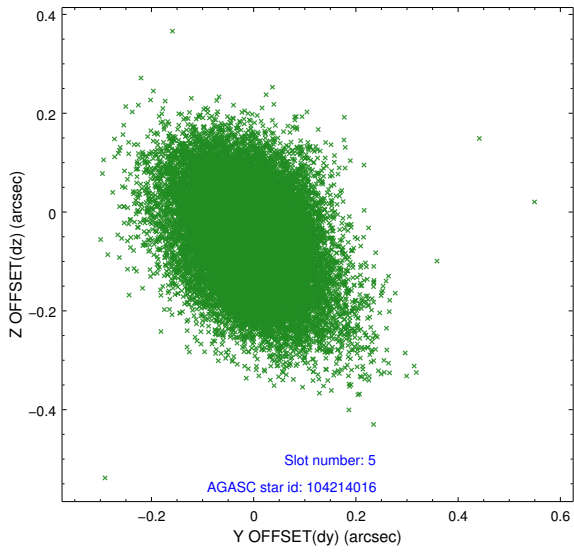
2.4.1 Slot 3



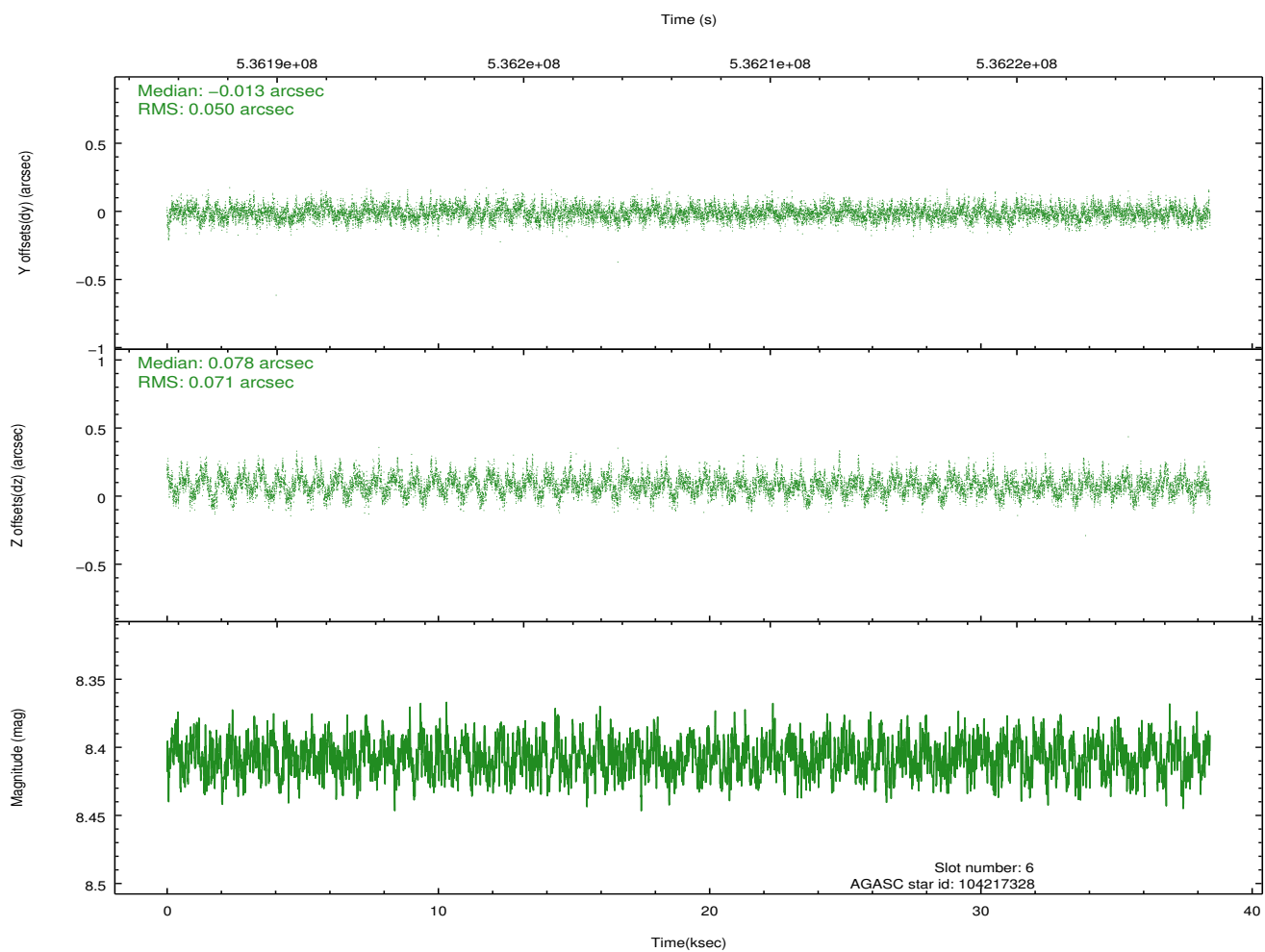
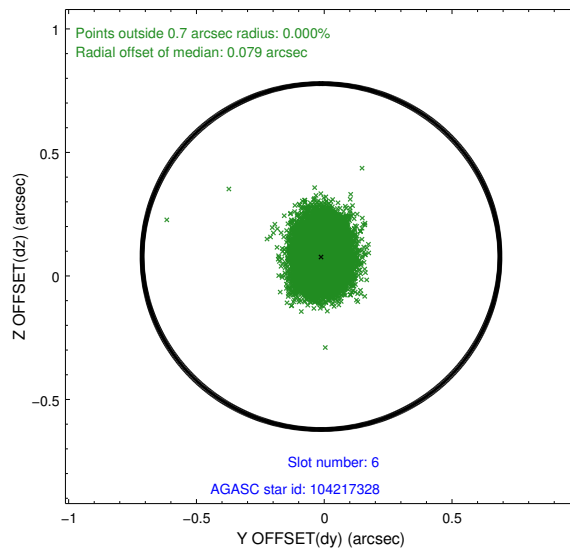
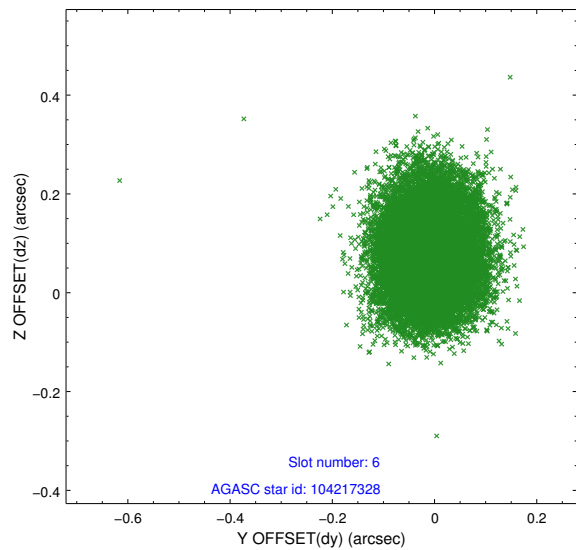
2.4.2 Slot 4



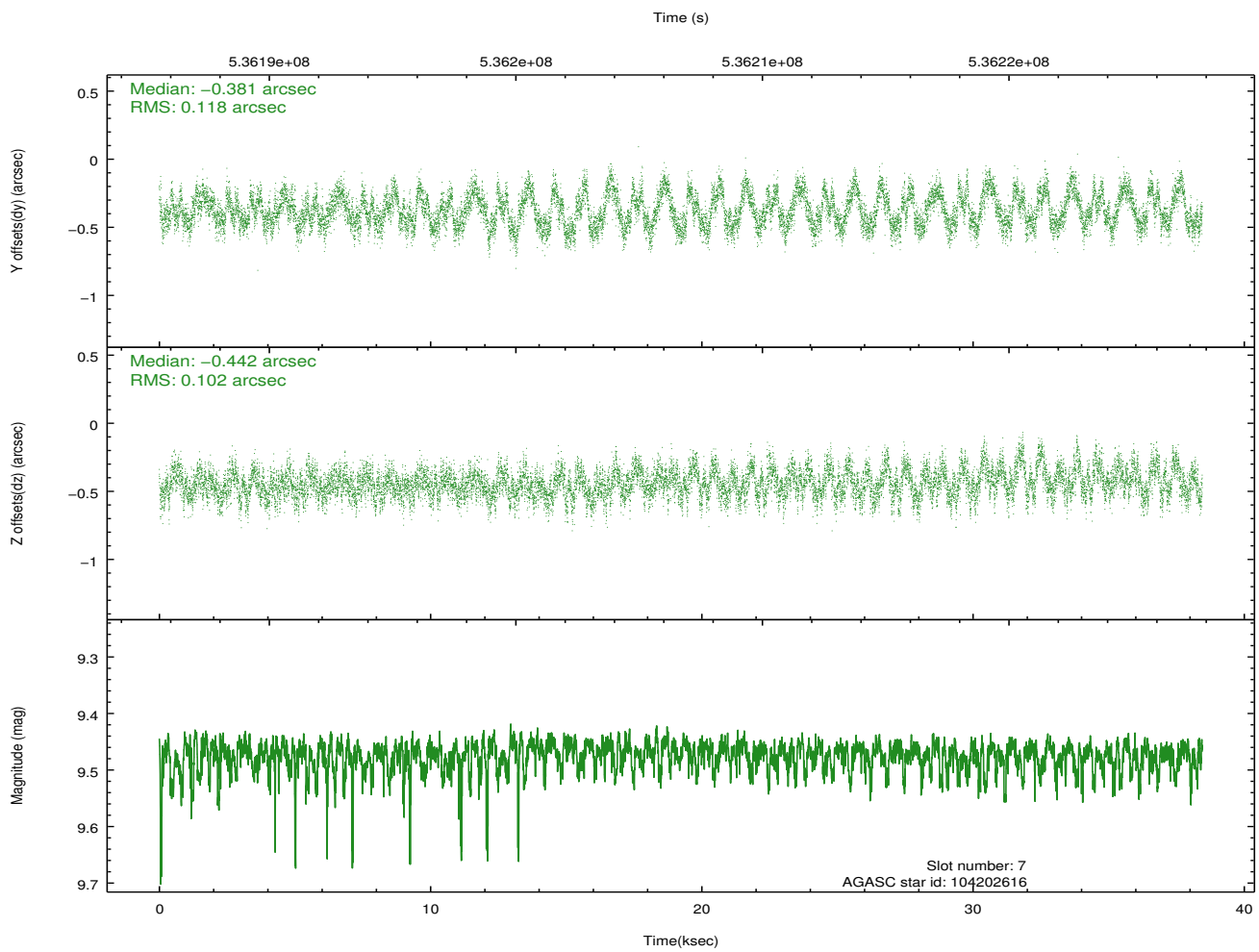
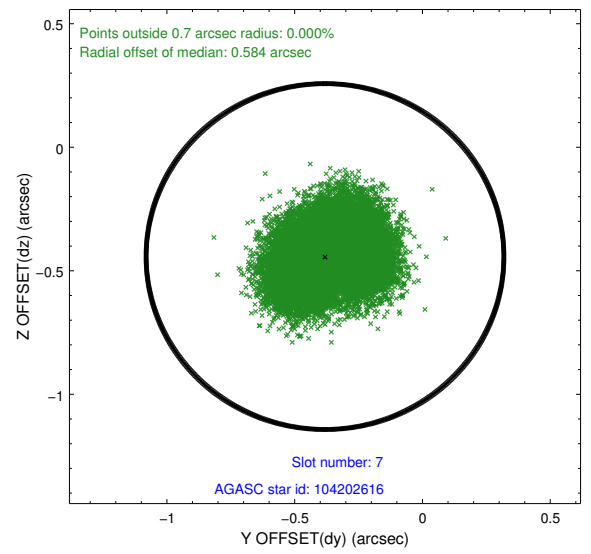
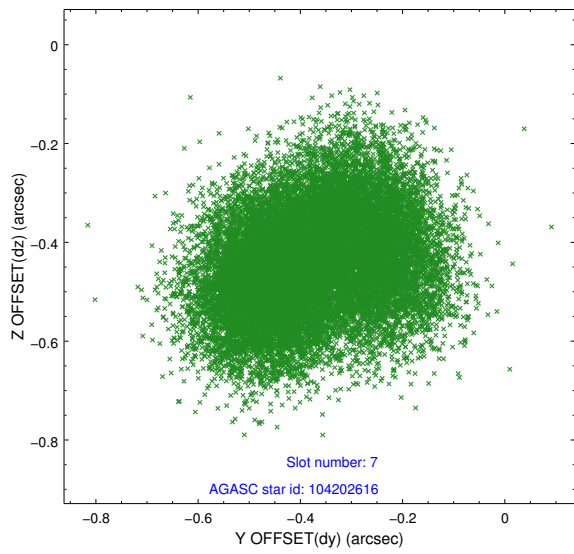
2.4.3 Slot 5



2.4.4 Slot 6

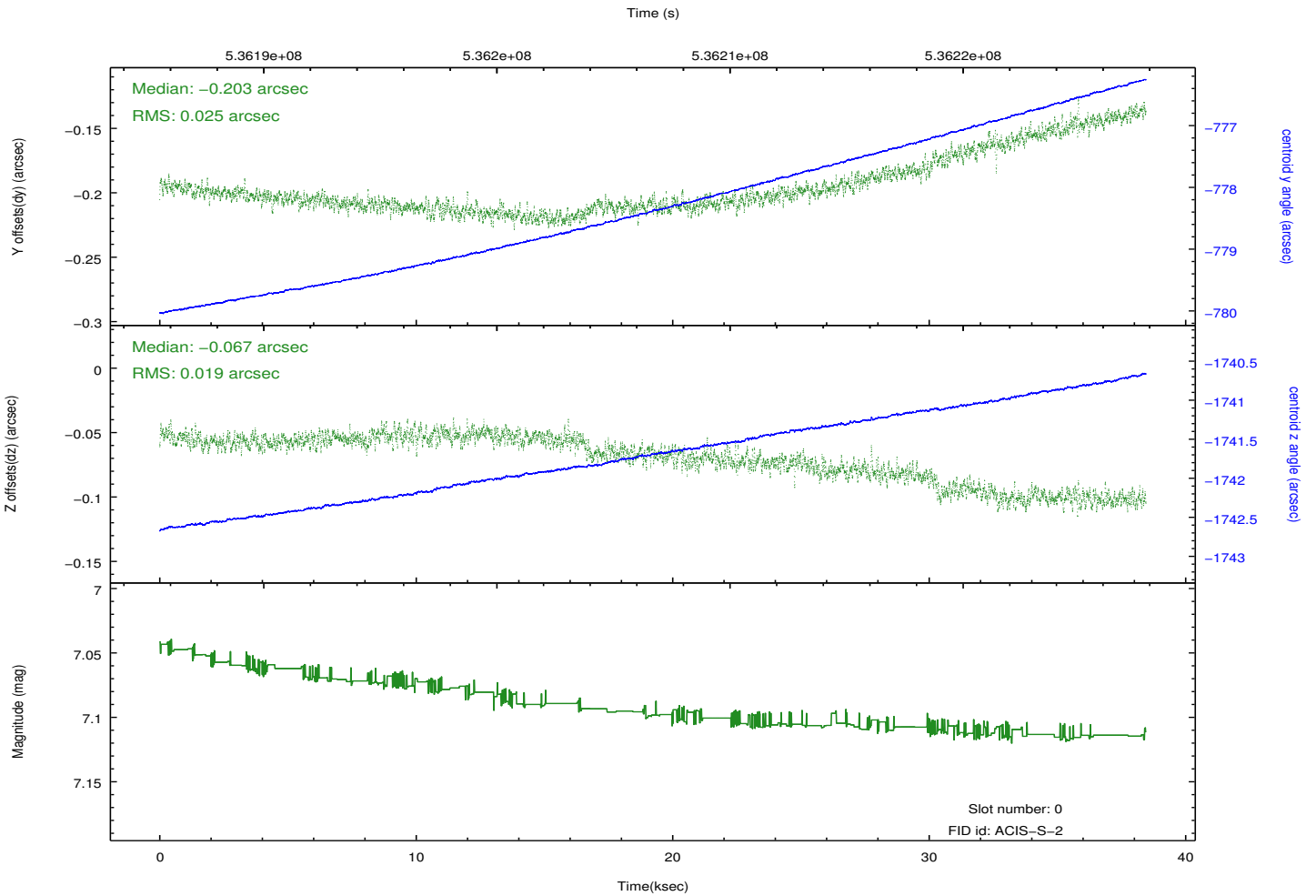
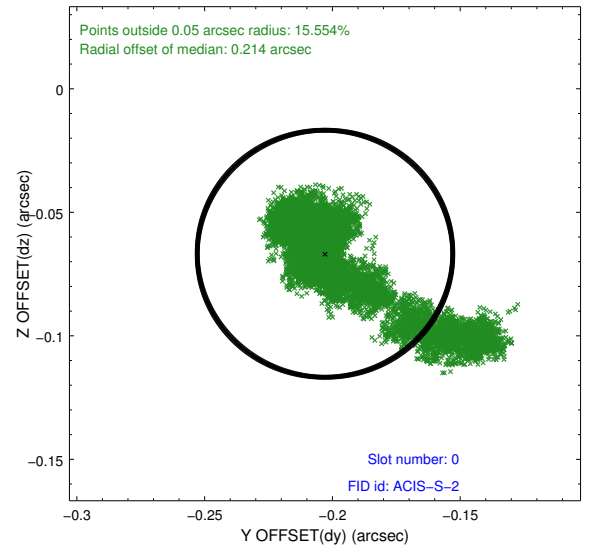
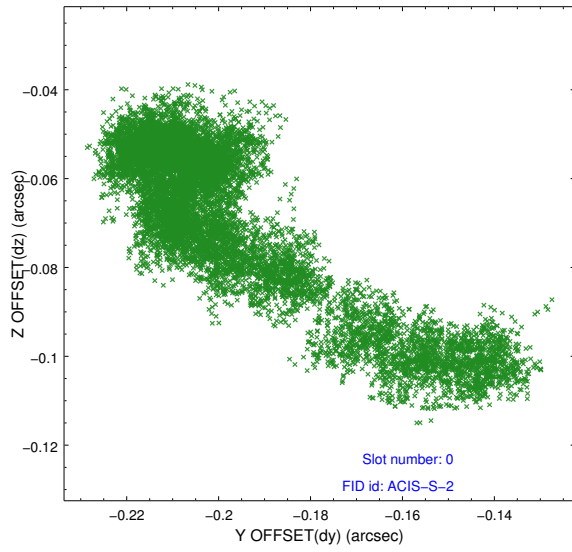


2.4.5 Slot 7

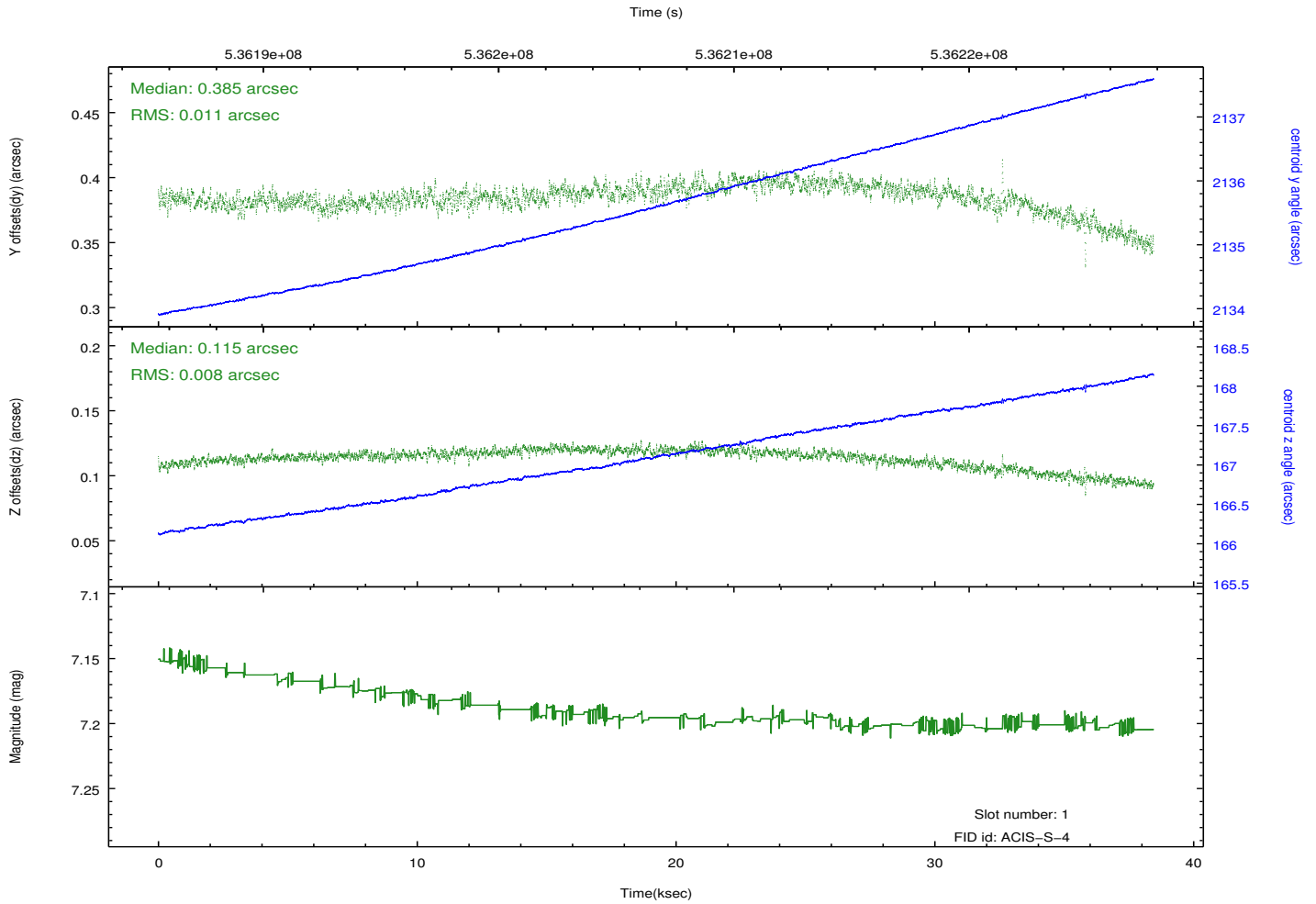
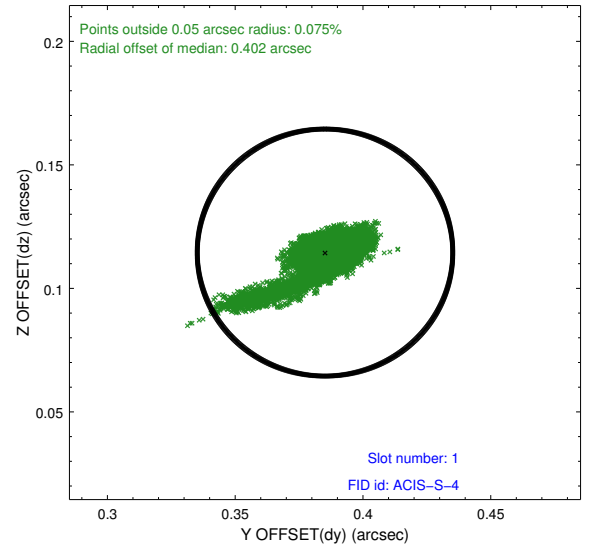
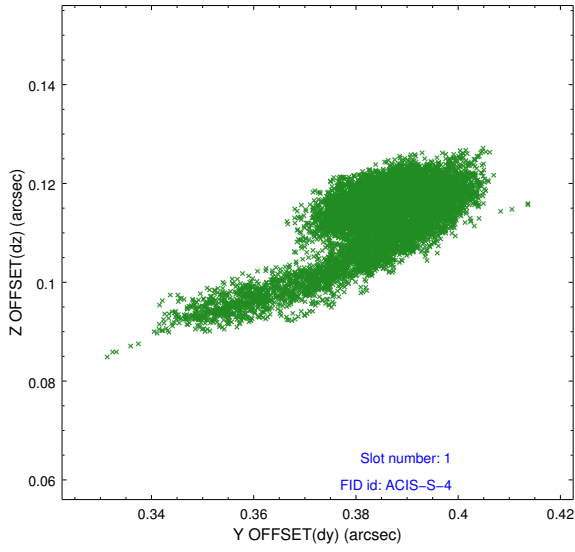


2.5 FID Slots

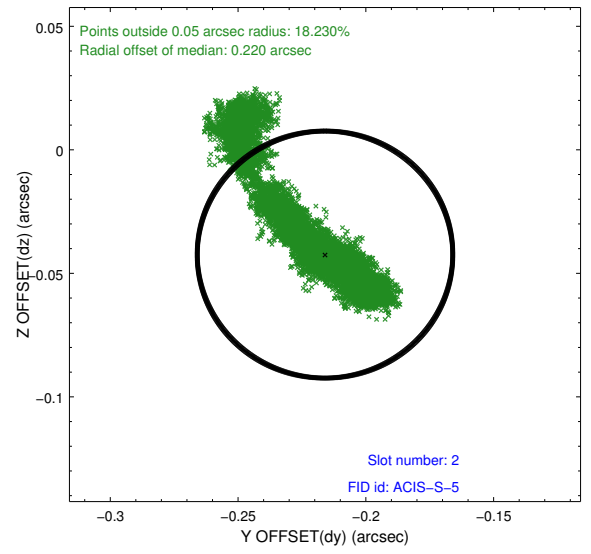
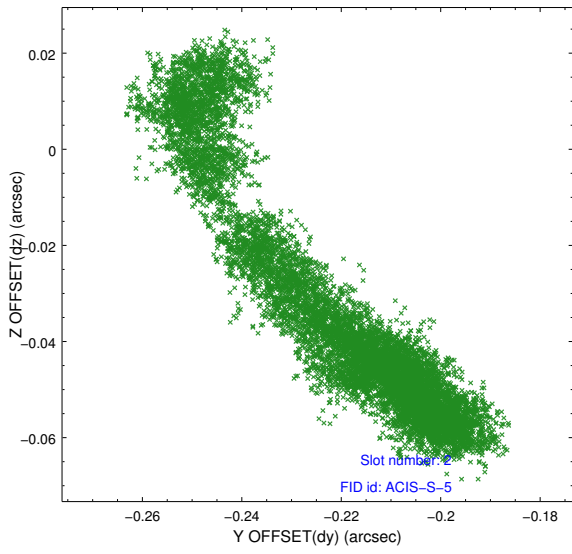
2.5.1 Slot 0



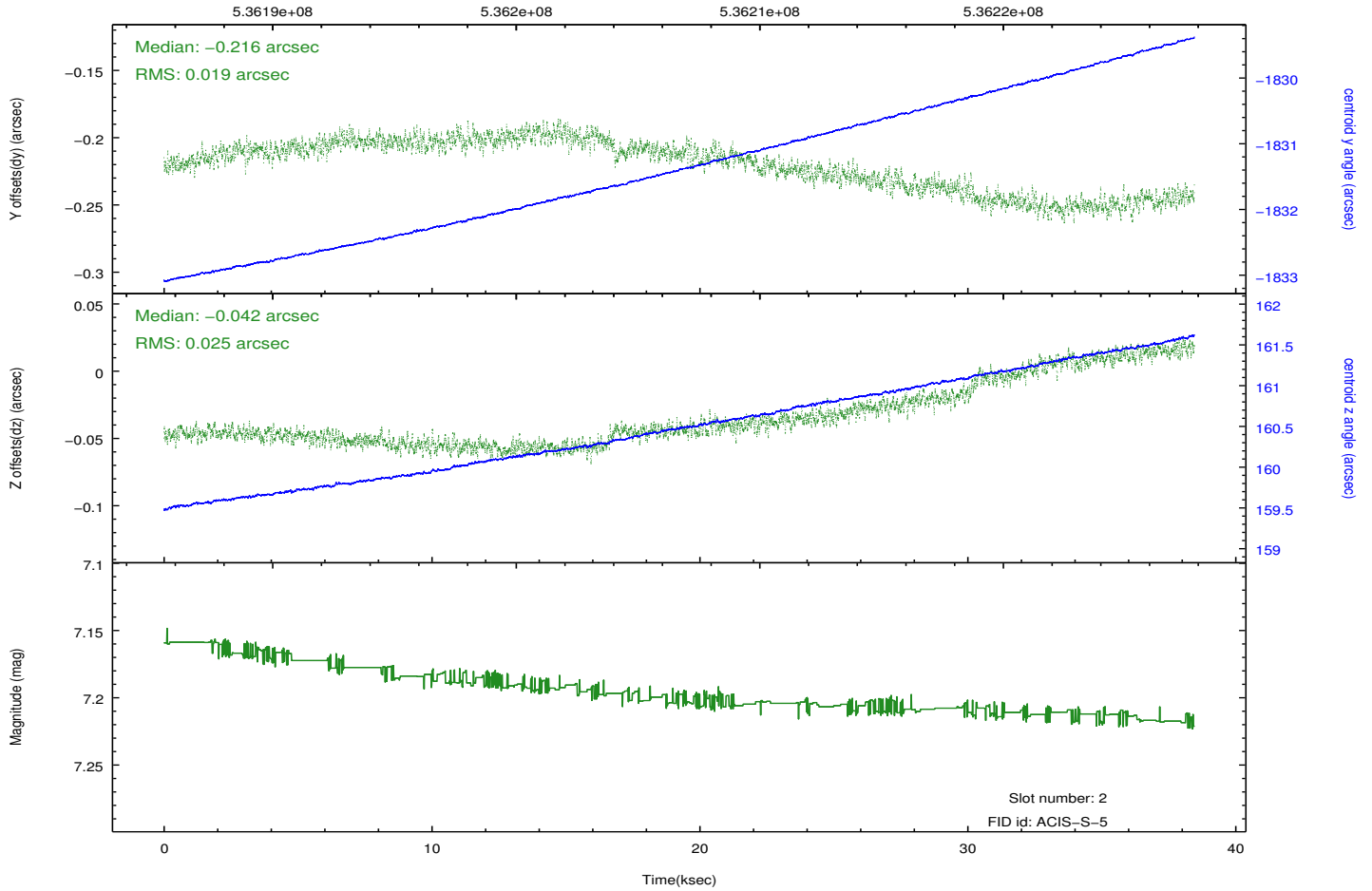
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.823100290895

A.2 Comments