

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20534 - L2 Version 1
Chandra X-Ray Center

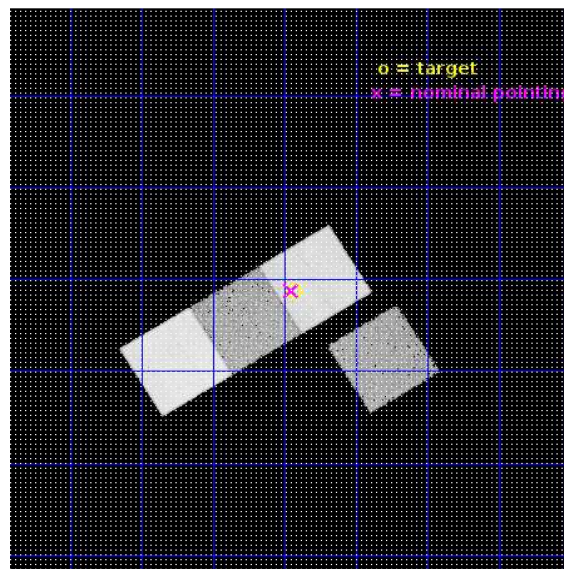
L2 Processing Date : Nov 17 2017

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1 Front

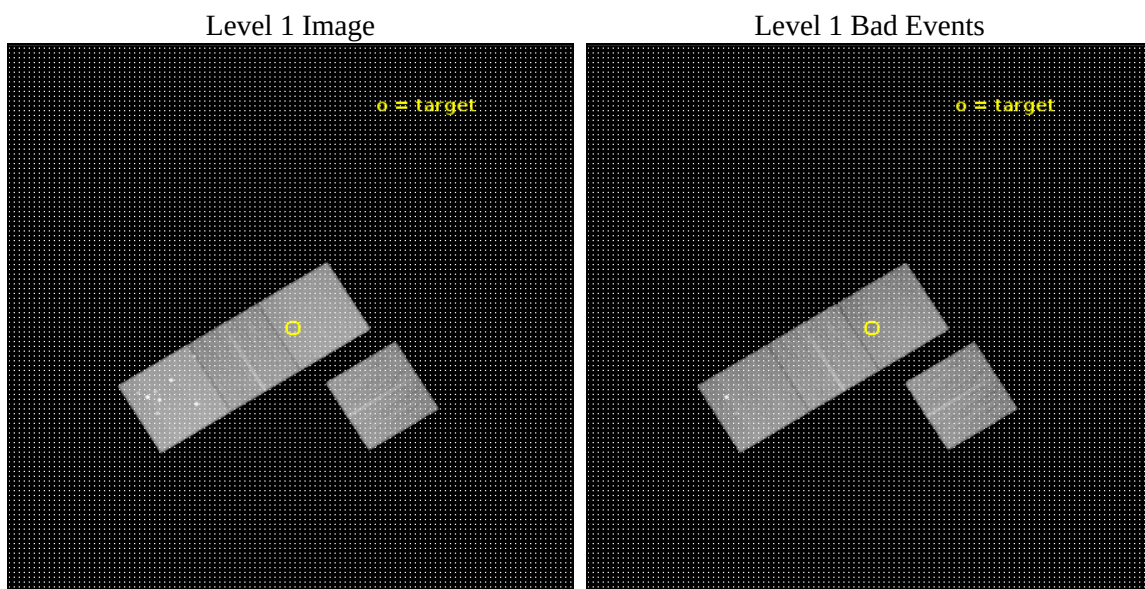
seq_num	801748	Sequence number
obs_id	20534	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Ben Maughan	Principal investigator
object	XXL-N0058	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.982083	Observer's specified target RA [deg]
dec_targ	-4.522	Observer's specified target Dec [deg]
ra_nom	36.988388013629	Nominal RA [deg]
dec_nom	-4.5203930605221	Nominal Dec [deg]
roll_nom	328.33344459014	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31968.943026543	Sum of GTIs [s]
livetime	31551.245250707	Livetime [s]
ontime3	31959.396716118	Sum of GTIs [s]
ontime5	31968.901986599	Sum of GTIs [s]
ontime6	31965.719886303	Sum of GTIs [s]
ontime7	31968.943026543	Sum of GTIs [s]
l2events	328053	Number of level 2 events



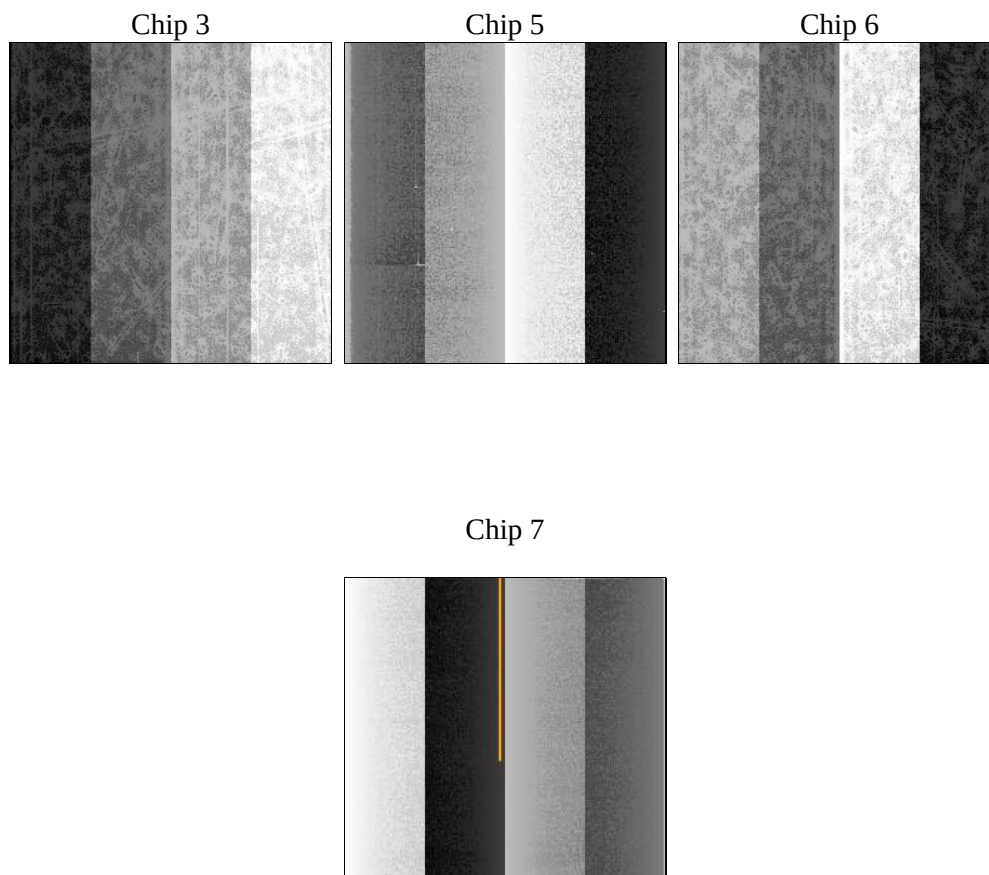
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31900.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	31968.943026543	Sum of GTIs [s]
caldsver	4.7.6	 	ontime3	31959.396716118	Sum of GTIs [s]
date	2017-11-17T13:26:37	Date and time of file creation	ontime5	31968.901986599	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	31965.719886303	Sum of GTIs [s]
			ontime7	31968.943026543	Sum of GTIs [s]
			l1events	1111052	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	205431	393400	223800	288421
rejected events	182586	192350	198670	163147
rejected %	88%	48%	88%	56%

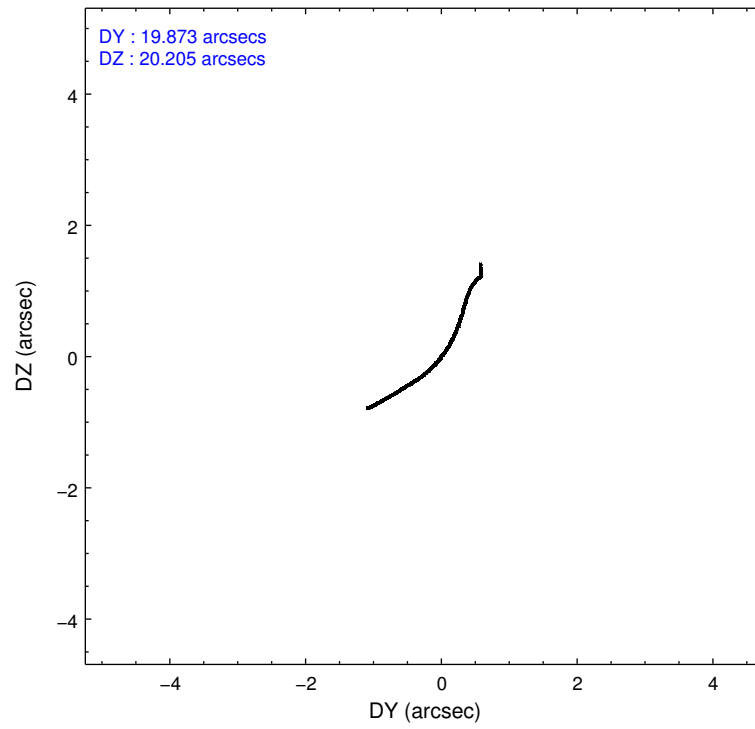
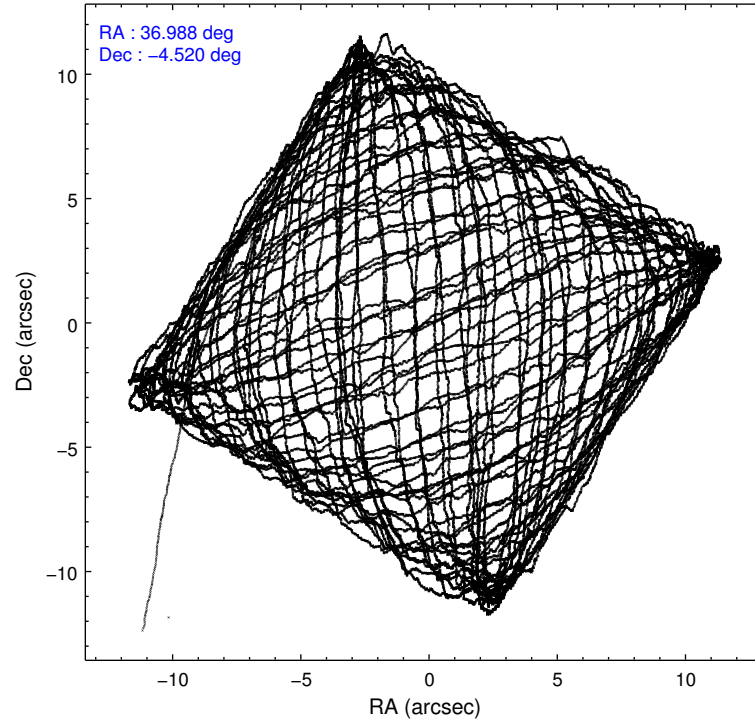
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7934	37340	8324	10824
	3%	9%	3%	3%
grade 1 events	125	764	118	423
	0%	0%	0%	0%
grade 2 events	5094	58211	5778	26306
	2%	14%	2%	9%
grade 3 events	2527	6155	2645	10098
	1%	1%	1%	3%
grade 4 events	2349	5458	2580	10094
	1%	1%	1%	3%
grade 5 events	10501	25998	10654	29216
	5%	6%	4%	10%
grade 6 events	4942	93907	5805	67962
	2%	23%	2%	23%
grade 7 events	171959	165567	187896	133498
	83%	42%	83%	46%

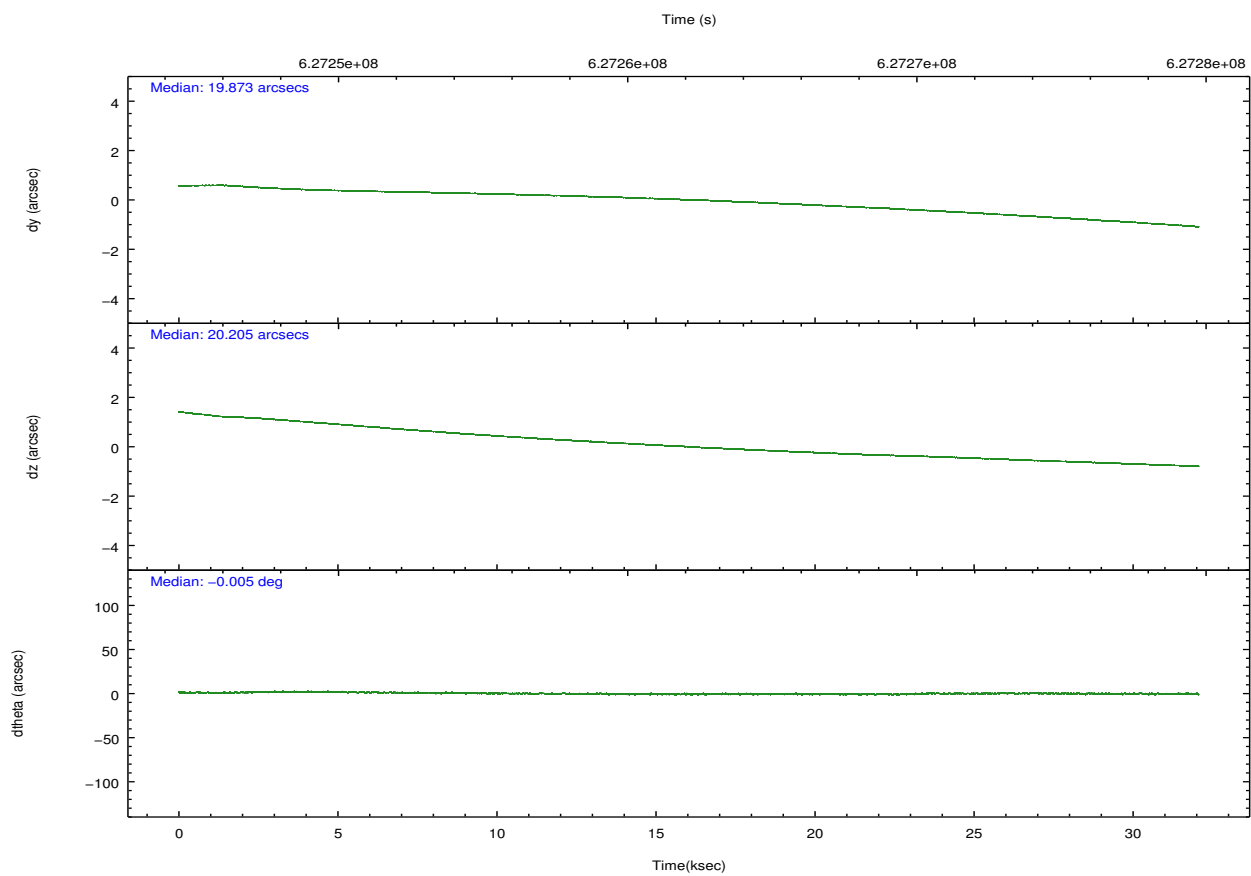
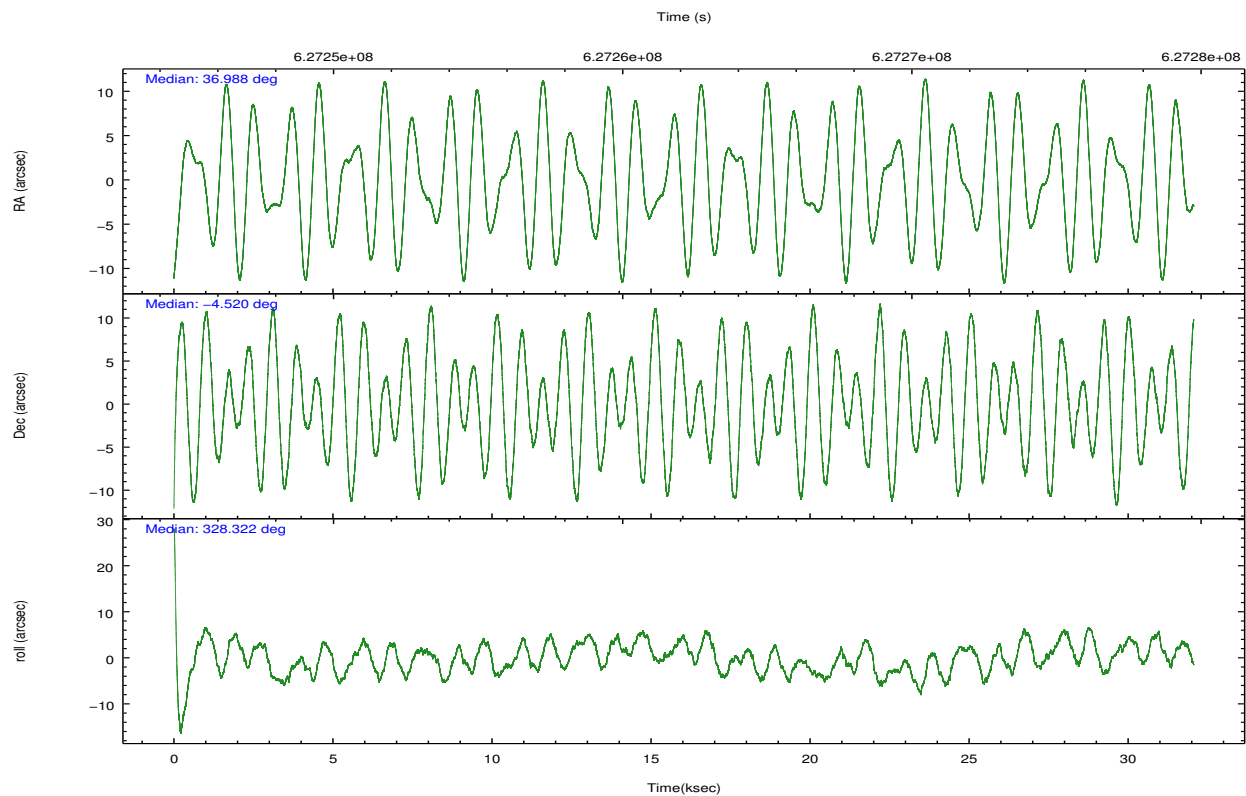
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3567	ACIS-3567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	36.960866	36.98838801362882
[deg] Pointing Dec	-4.519964	-4.520393060522132
[deg] Pointing Roll	328.174625	328.3334445901436
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	627246273.184000	627244524.8350199
Observation start date	2017-11-16T19:03:24	2017-11-16T18:35:24
[s] Observation end time (MET)	627278173.184000	627279128.32455
Observation end date	2017-11-17T03:55:04	2017-11-17T04:12:08
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



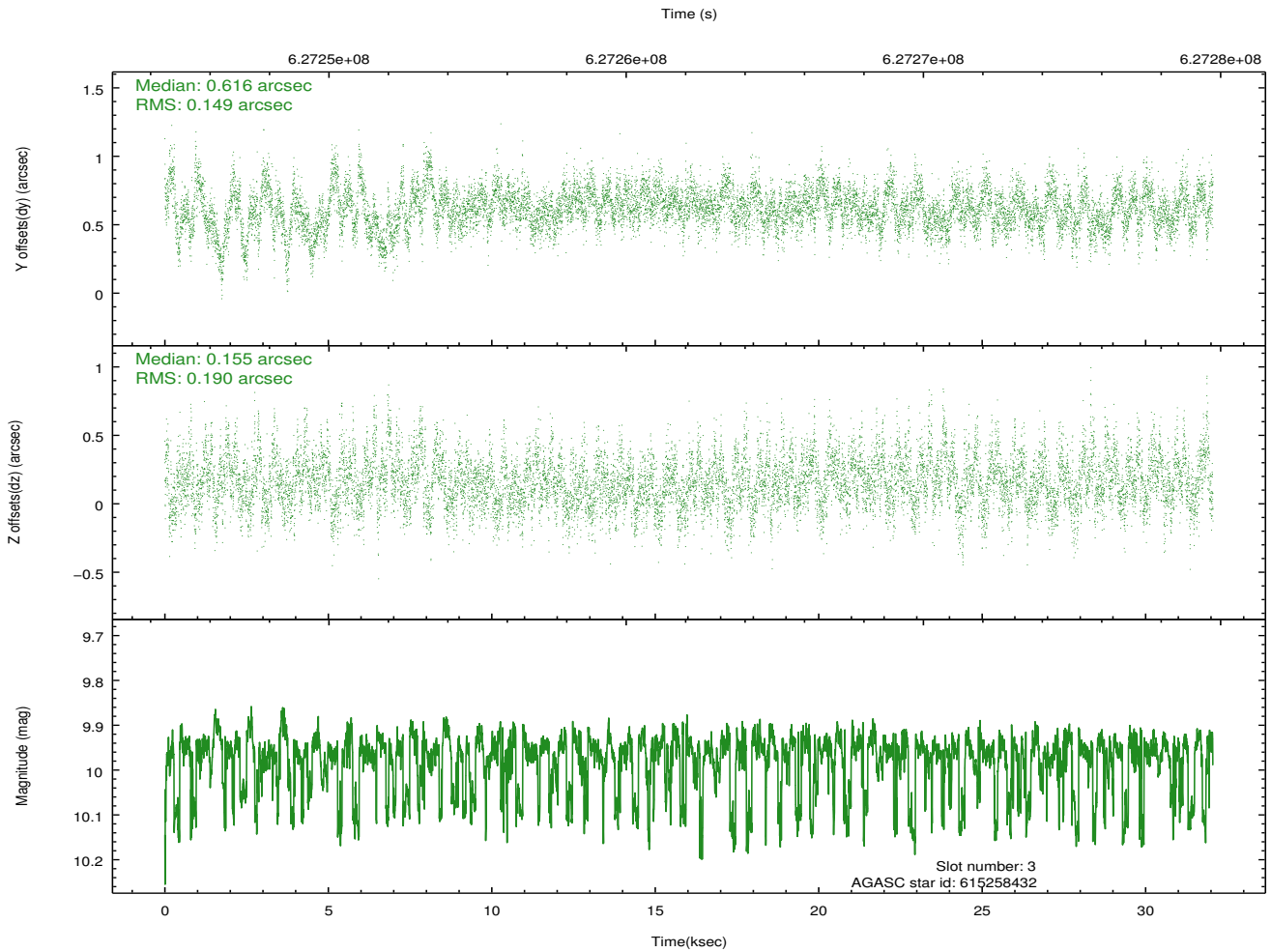
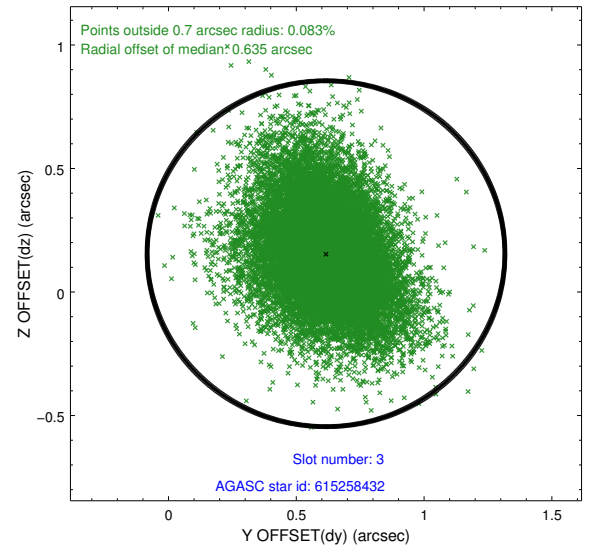
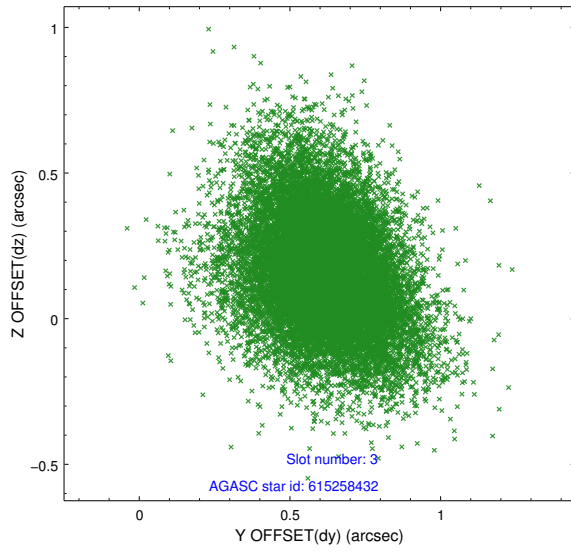


Slot Statistics

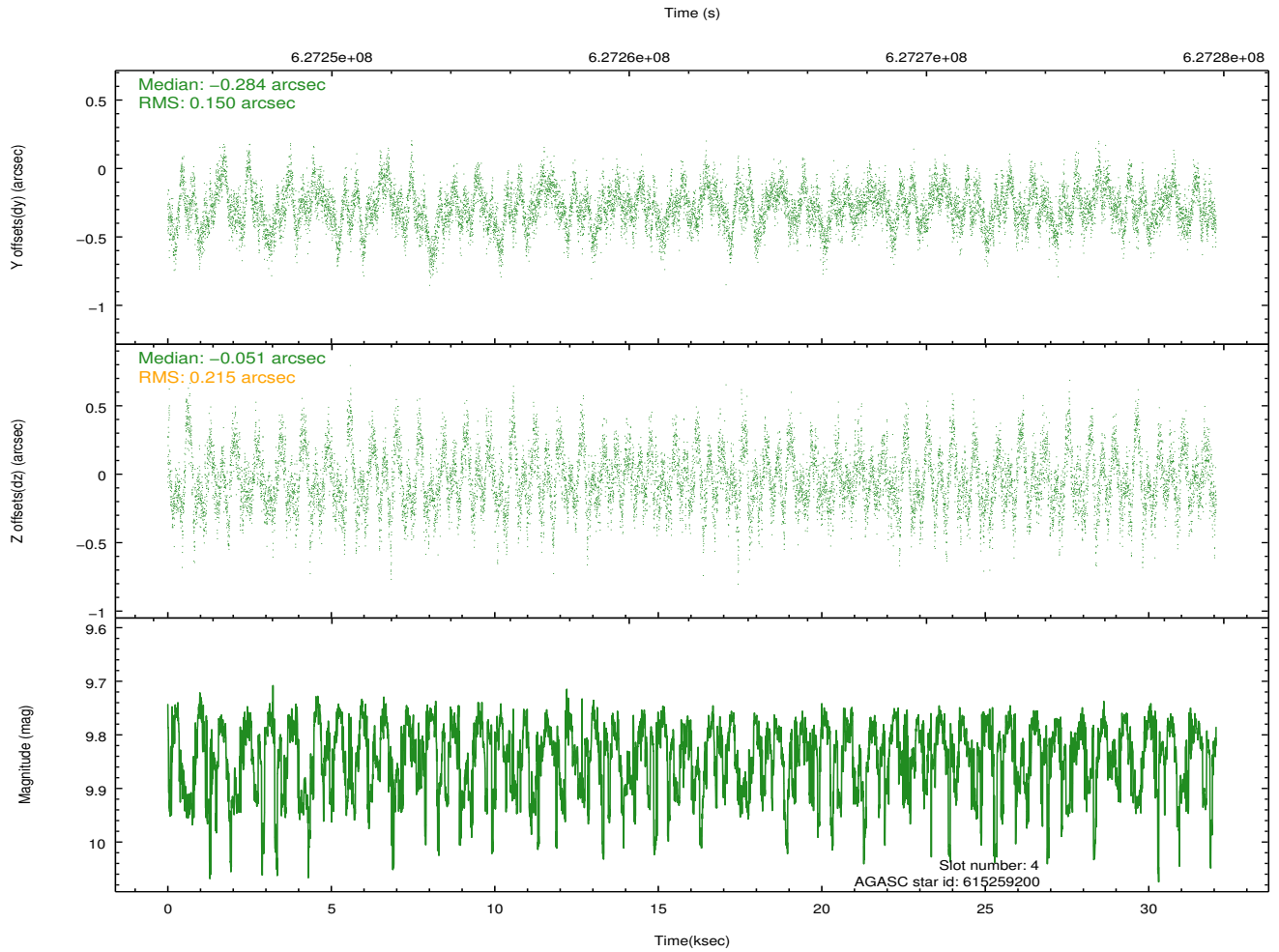
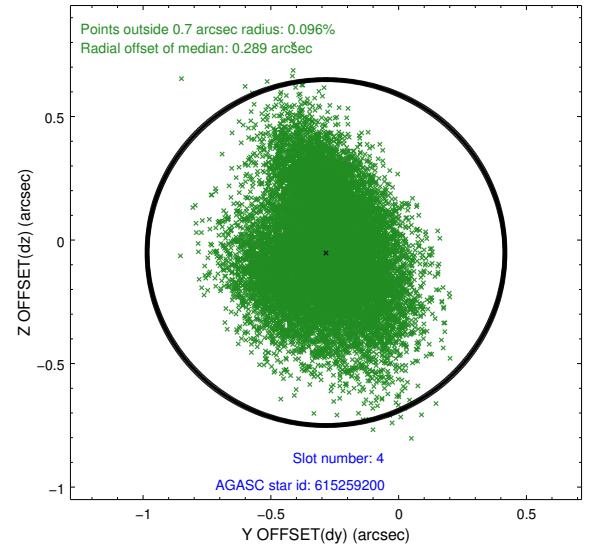
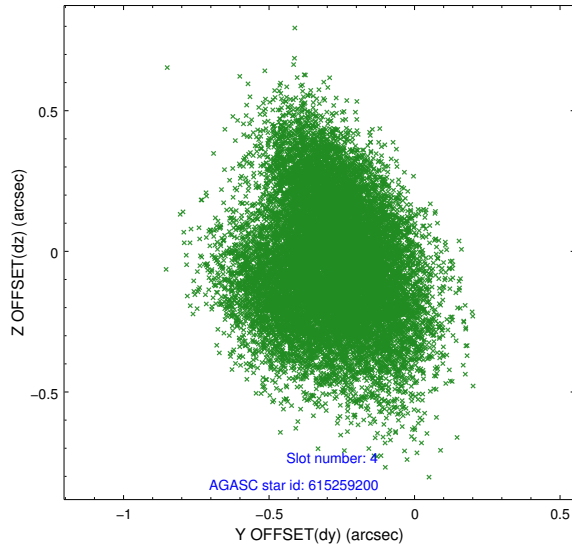
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	7820	-0.265	-0.095	0.018	0.036	0.000000	0.000000	-773.11	-1741.95
1	FID		ACIS-S-4	7.07	7820	0.549	0.153	0.010	0.020	0.000000	0.000000	2140.92	166.76
2	FID		ACIS-S-5	7.06	7820	-0.312	-0.051	0.018	0.043	0.000000	0.000000	-1825.96	160.24
3	GUIDE	used	615258432	9.96	15595	0.616	0.155	0.250	0.431	36.673522	-4.852705	-242.35	-1561.01
4	GUIDE	used	615259200	9.83	15611	-0.284	-0.051	0.280	0.451	36.972731	-4.892663	744.34	-1117.19
5	GUIDE	used	615651688	9.26	15620	-0.195	-0.111	0.244	0.384	36.942546	-5.027086	910.47	-1581.71
6	GUIDE	used	615652208	9.23	15577	0.043	-0.142	0.233	0.401	37.091780	-5.282014	1847.30	-2082.97
7	GUIDE	used	615254552	9.15	15630	-0.179	0.112	0.175	0.296	36.600600	-3.877551	-2318.52	1281.88

2.4 Star Slots

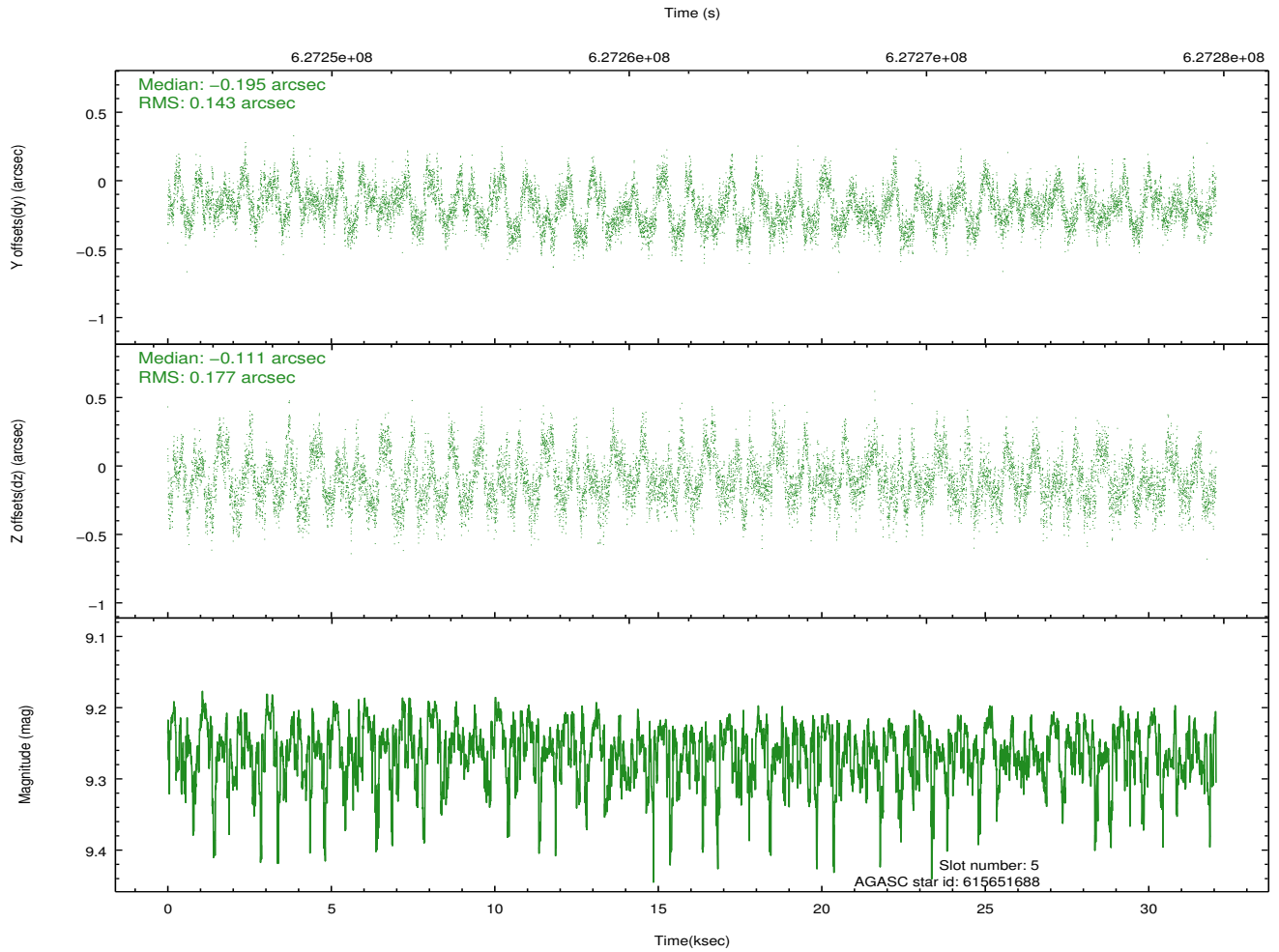
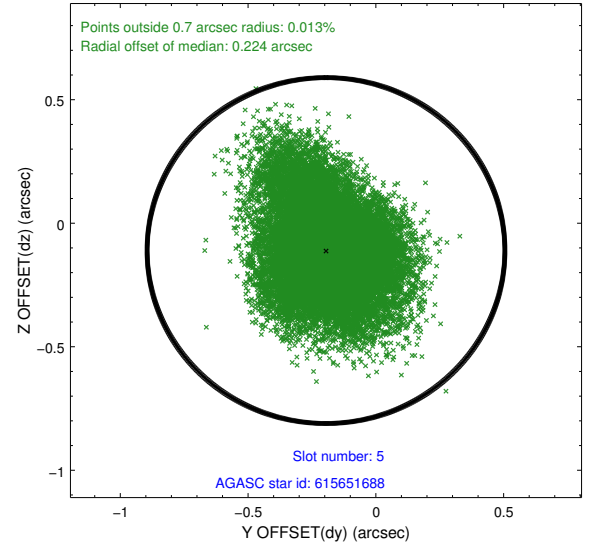
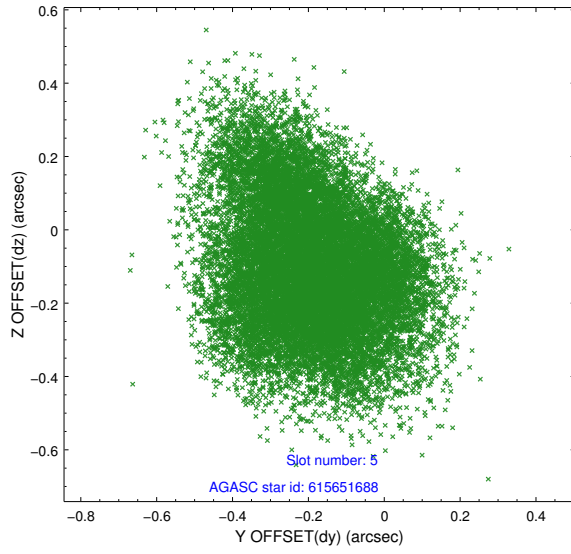
2.4.1 Slot 3



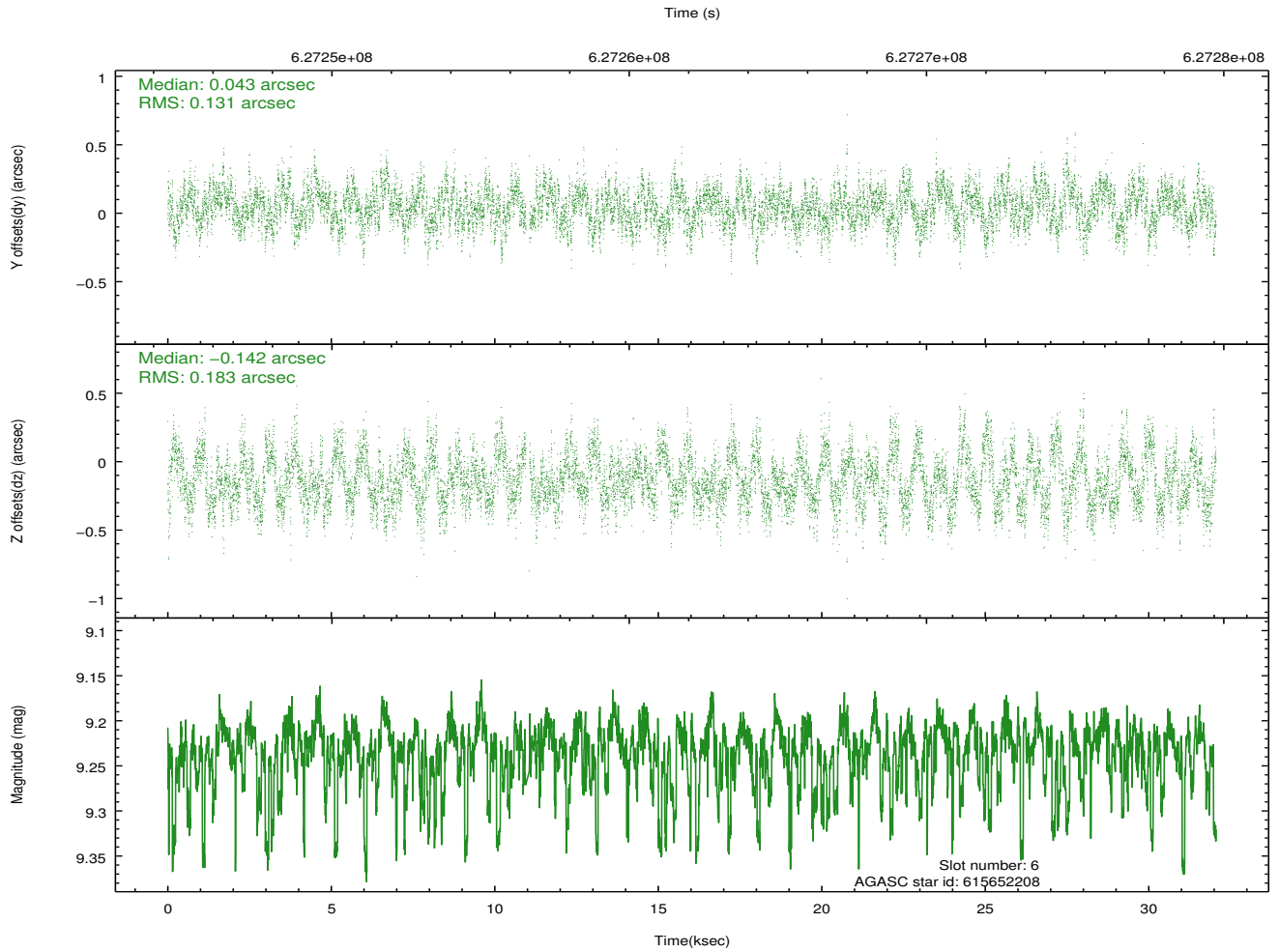
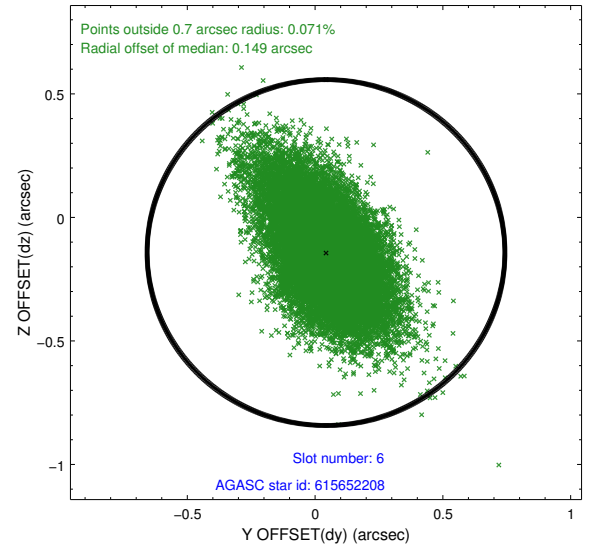
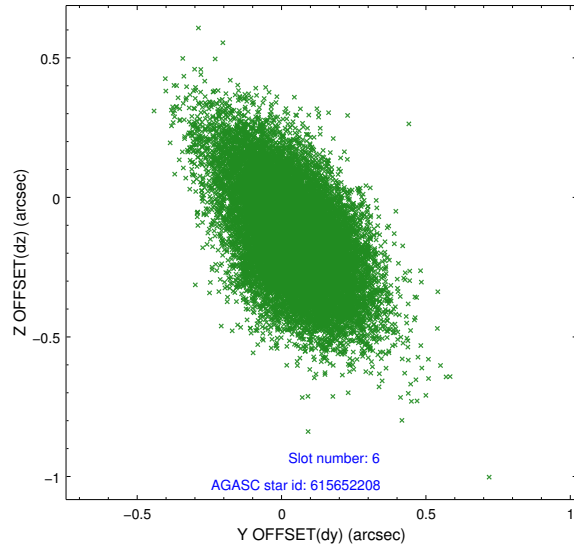
2.4.2 Slot 4



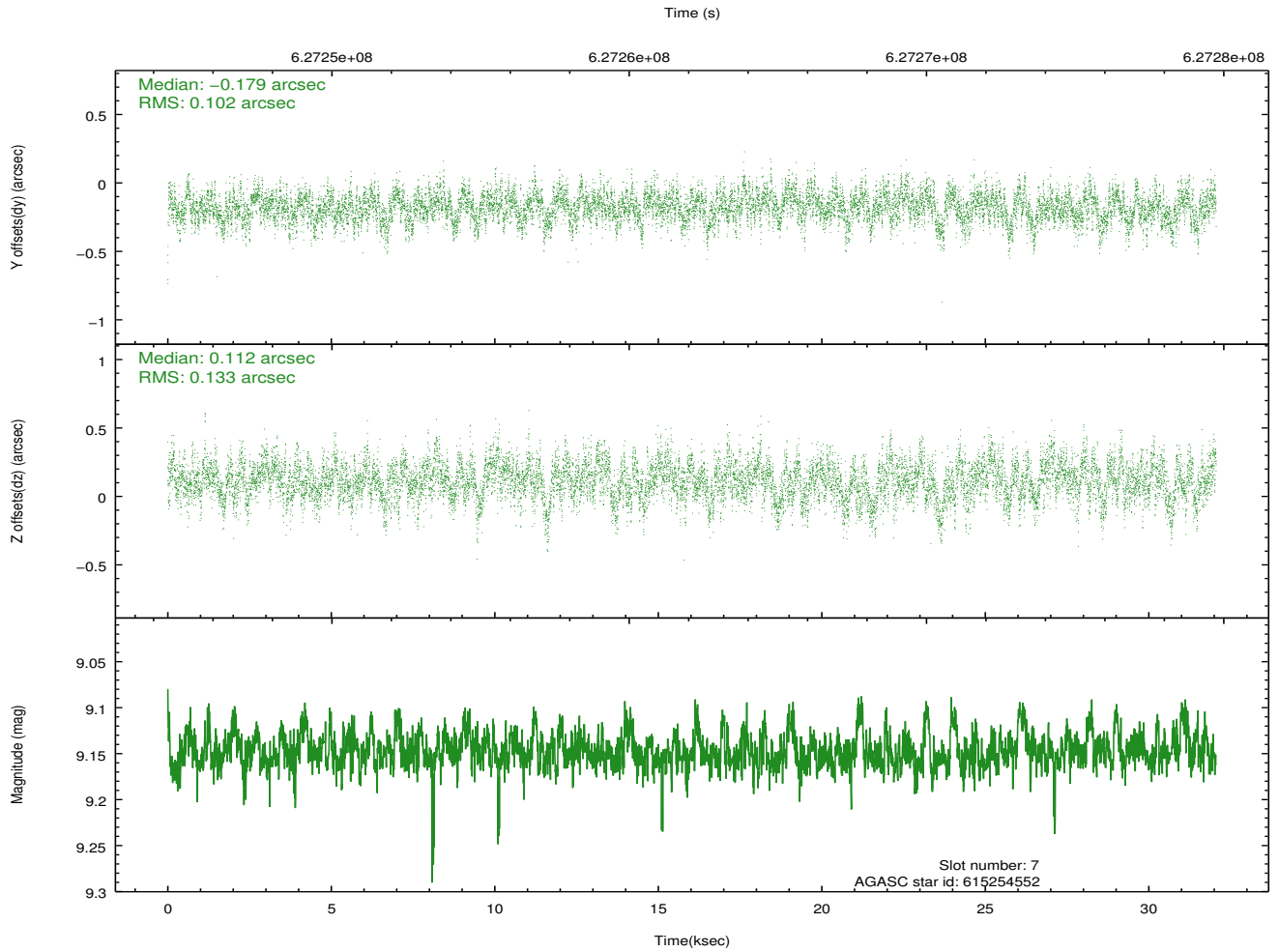
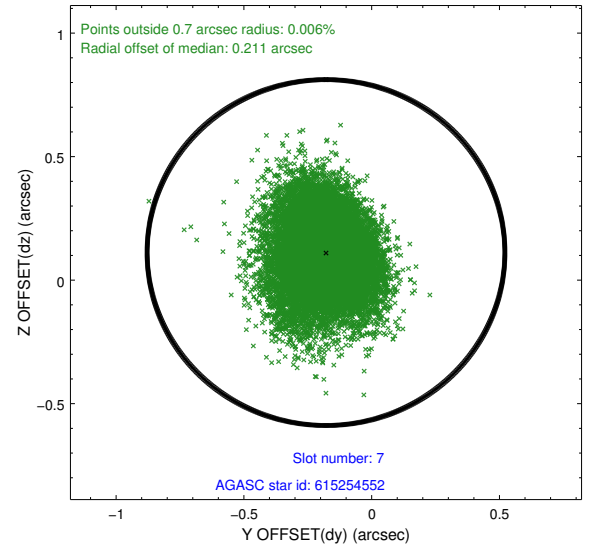
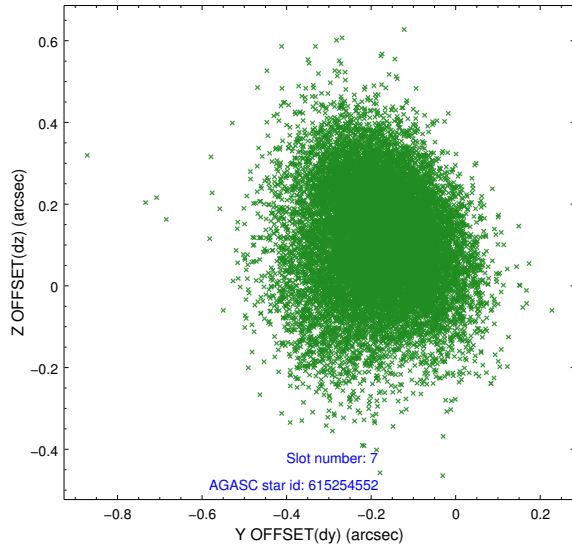
2.4.3 Slot 5



2.4.4 Slot 6

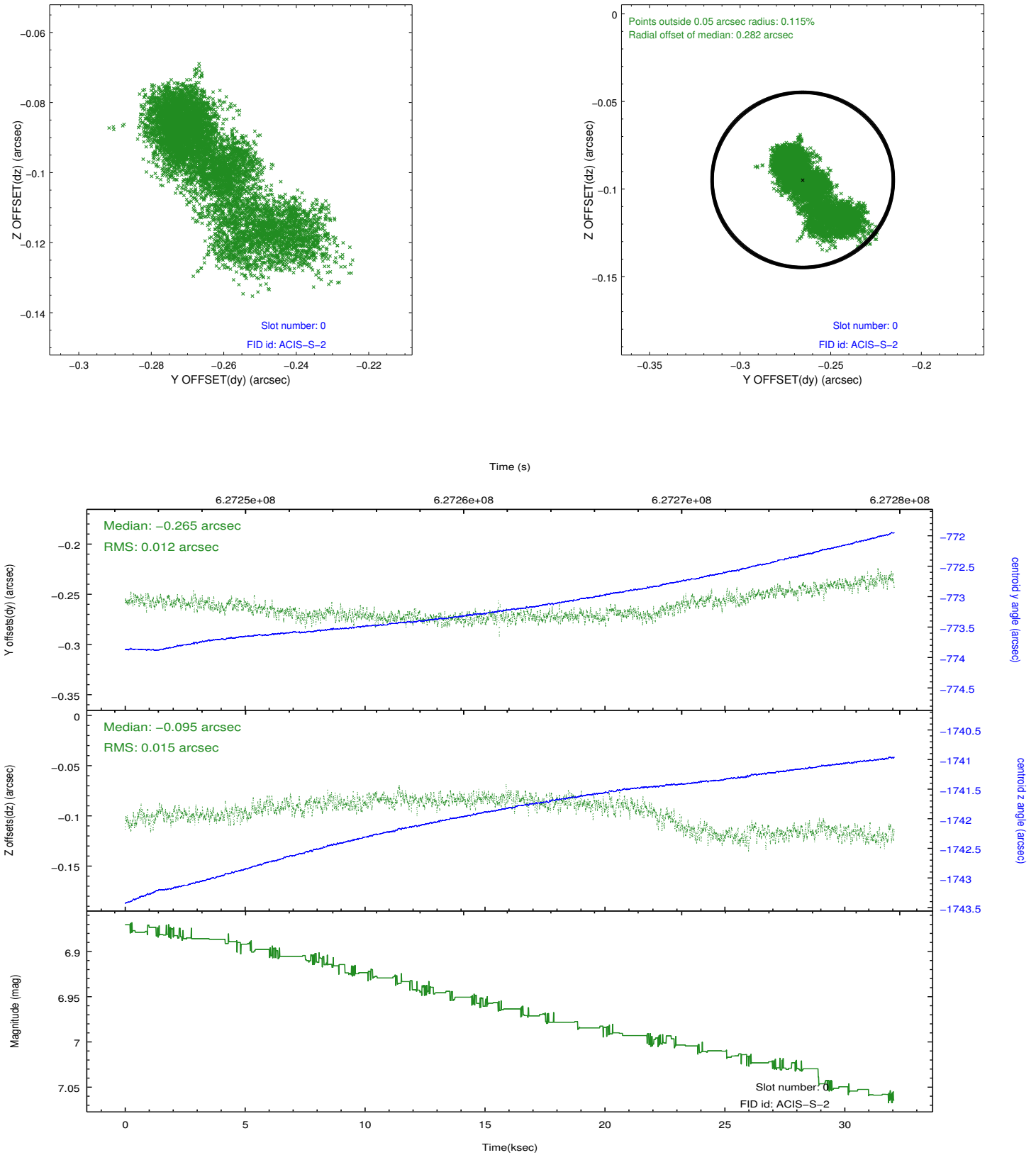


2.4.5 Slot 7

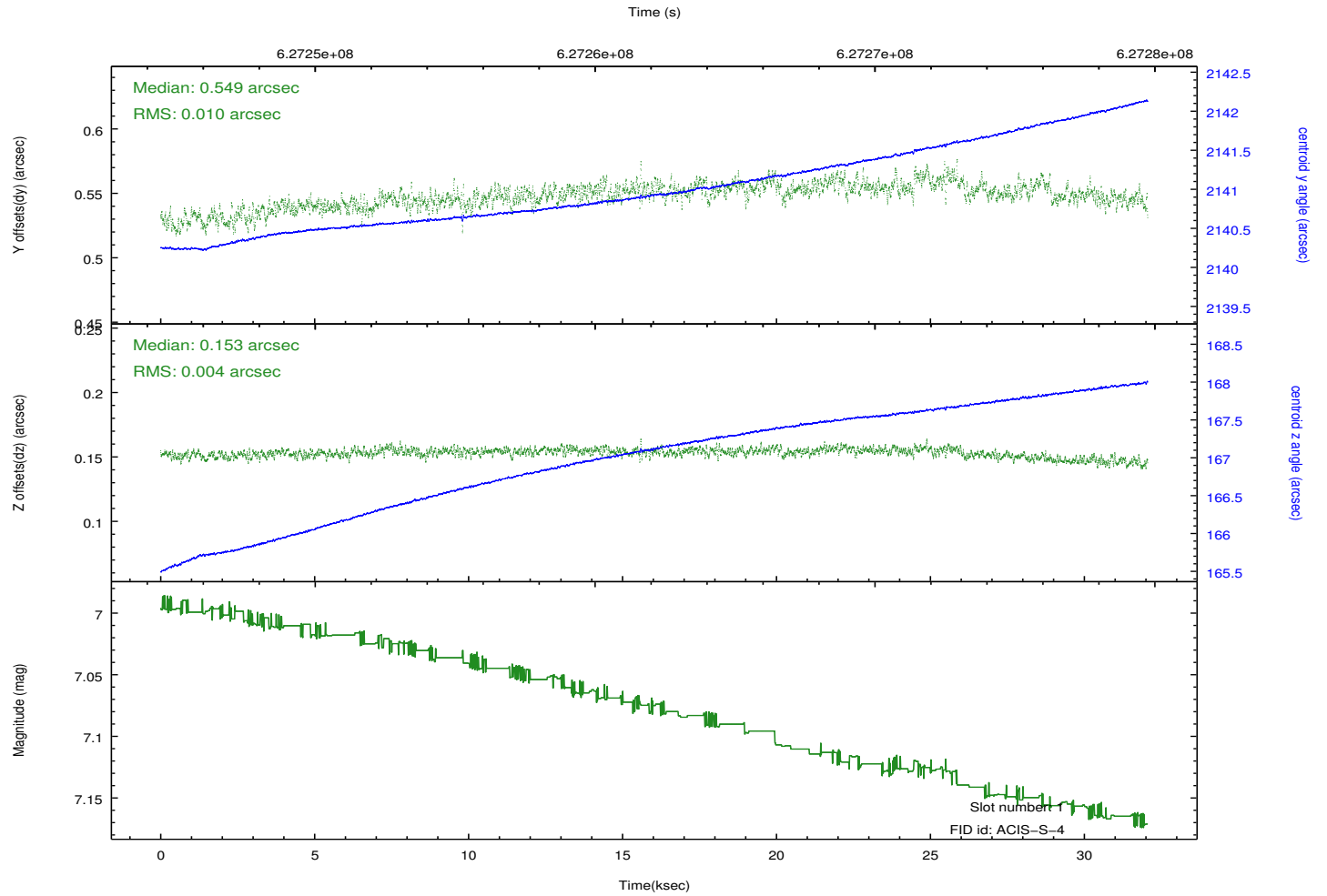
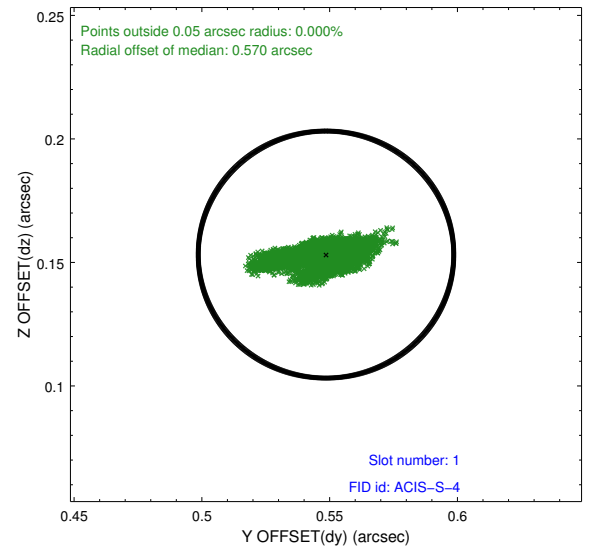
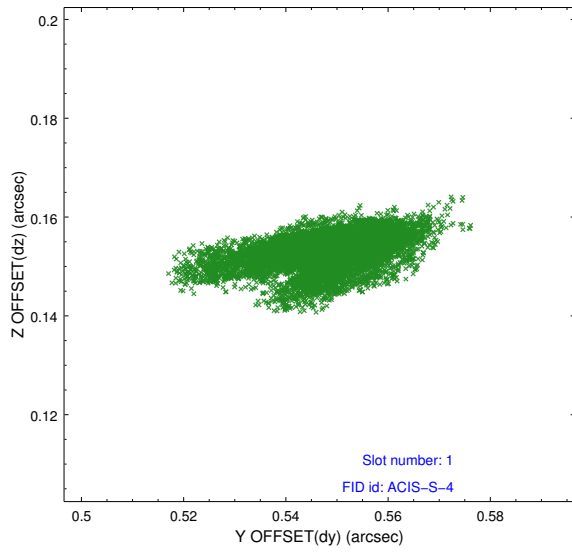


2.5 FID Slots

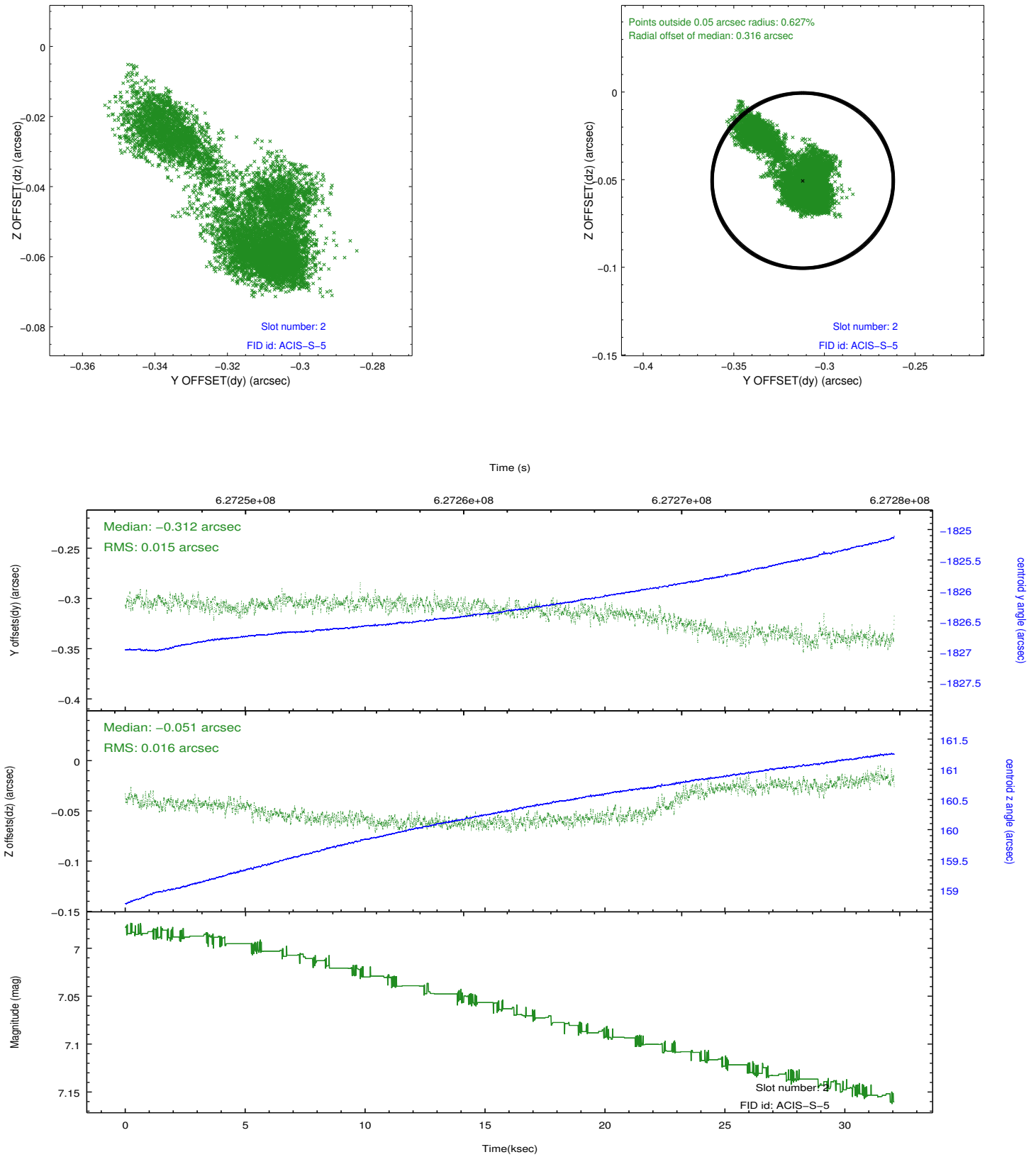
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.11.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.968943026543

A.2 Comments

Optional chip I2 not included.