

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19511 - L2 Version 1
Chandra X-Ray Center

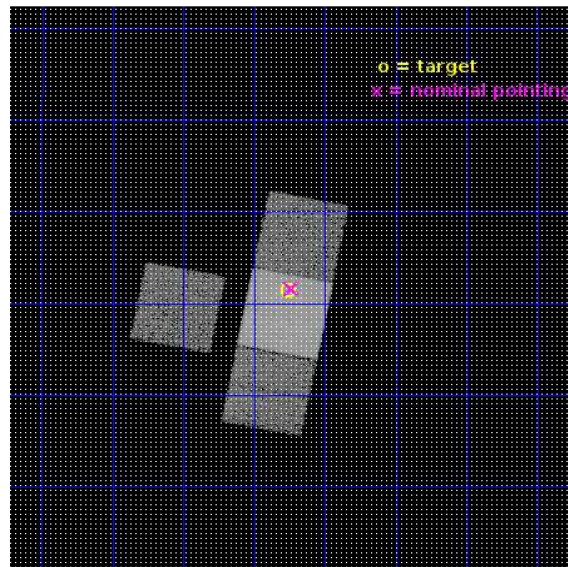
L2 Processing Date : Sep 29 2016

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1 Front

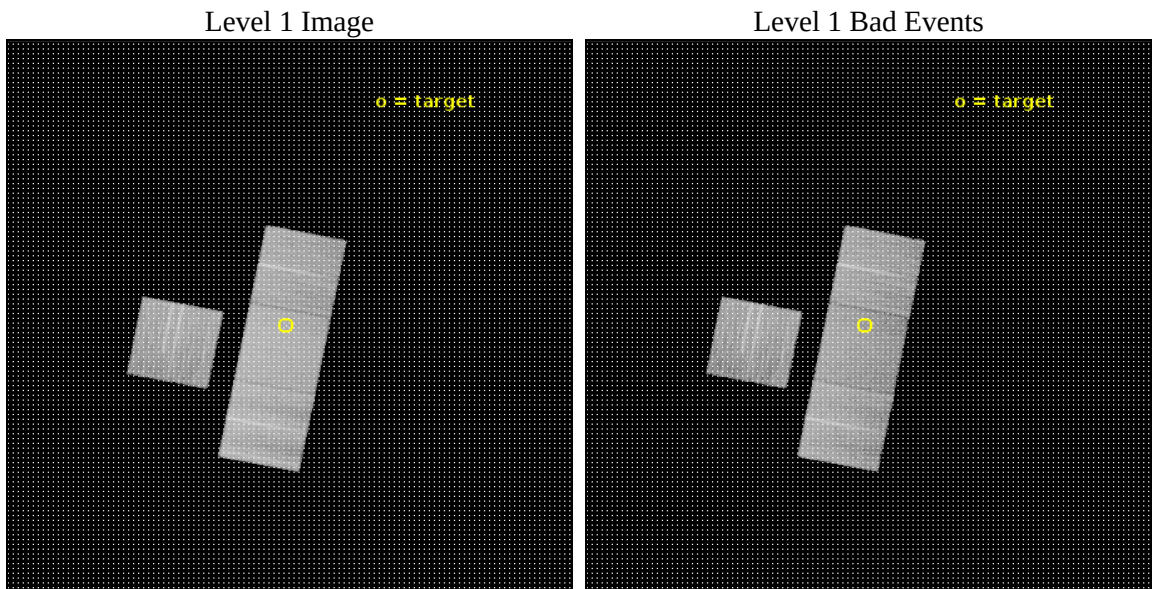
seq_num	703359	Sequence number
obs_id	19511	Observation id
title	Extreme rotation measures and high-redshift clusters	Proposal titl
observer	Mark Birkinshaw	Principal investigator
object	PKS 0226+08	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.314167	Observer's specified target RA [deg]
dec_targ	8.857111	Observer's specified target Dec [deg]
ra_nom	37.309242741518	Nominal RA [deg]
dec_nom	8.8599571314503	Nominal Dec [deg]
roll_nom	101.1573830267	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20289.408179879	Sum of GTIs [s]
livetime	20024.312125164	Livetime [s]
ontime3	20289.326099873	Sum of GTIs [s]
ontime6	20289.367139935	Sum of GTIs [s]
ontime7	20289.408179879	Sum of GTIs [s]
ontime8	20270.438878536	Sum of GTIs [s]
l2events	114618	Number of level 2 events



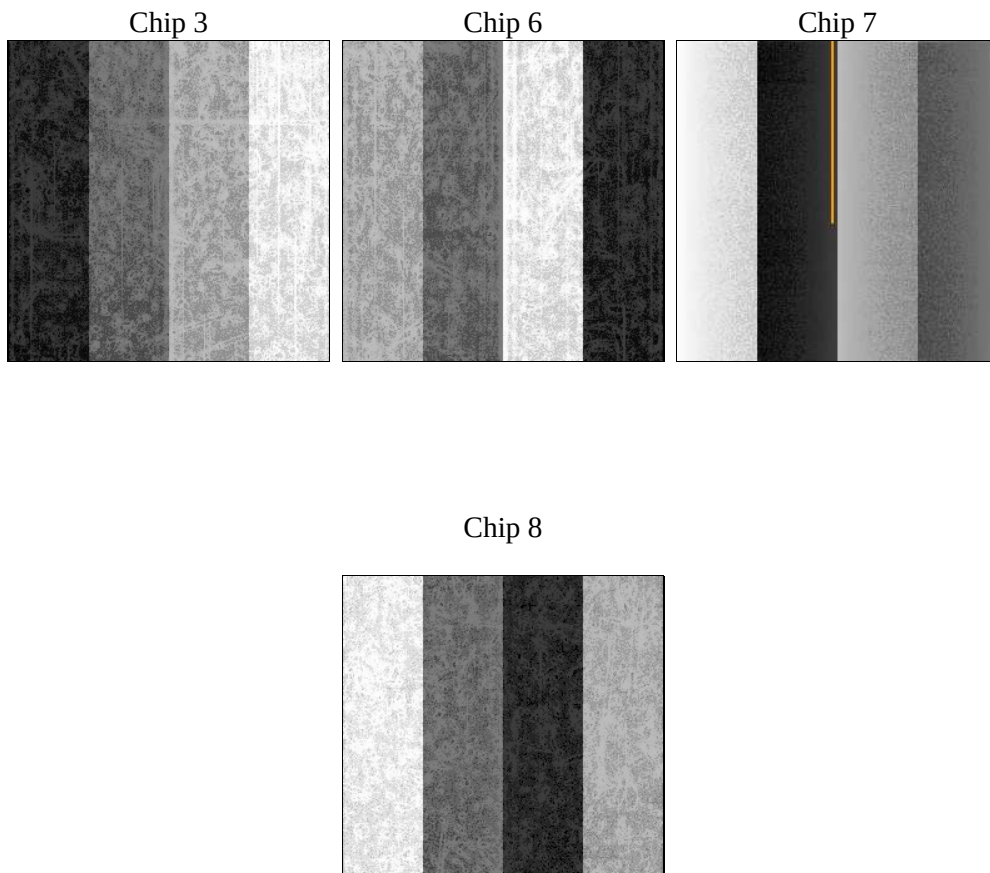
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	20289.408179879	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	20289.326099873	Sum of GTIs [s]
date	2016-09-29T12:37:36	Date and time of file creation	ontime6	20289.367139935	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20289.408179879	Sum of GTIs [s]
			ontime8	20270.438878536	Sum of GTIs [s]
			l1events	600367	Number of level 1 events

2.1.4 Events

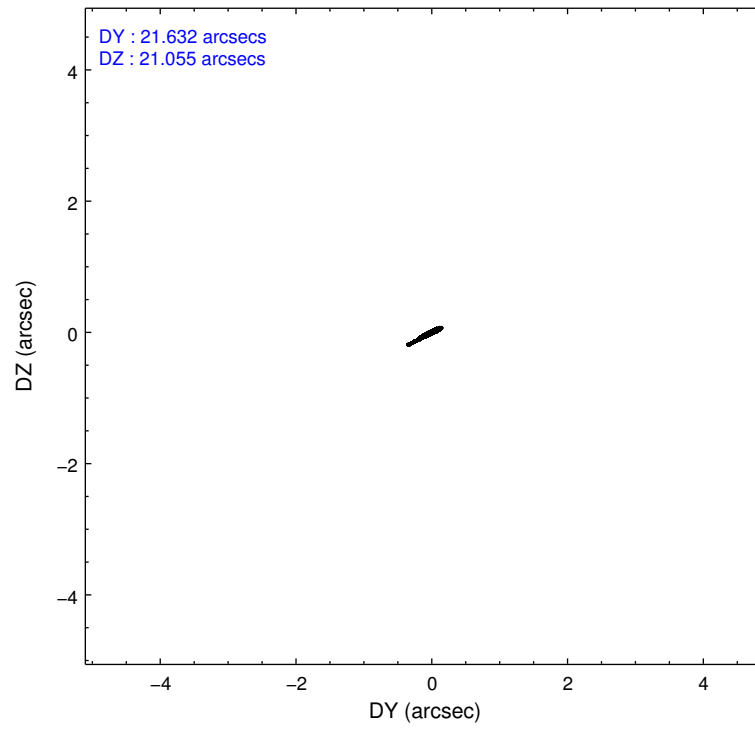
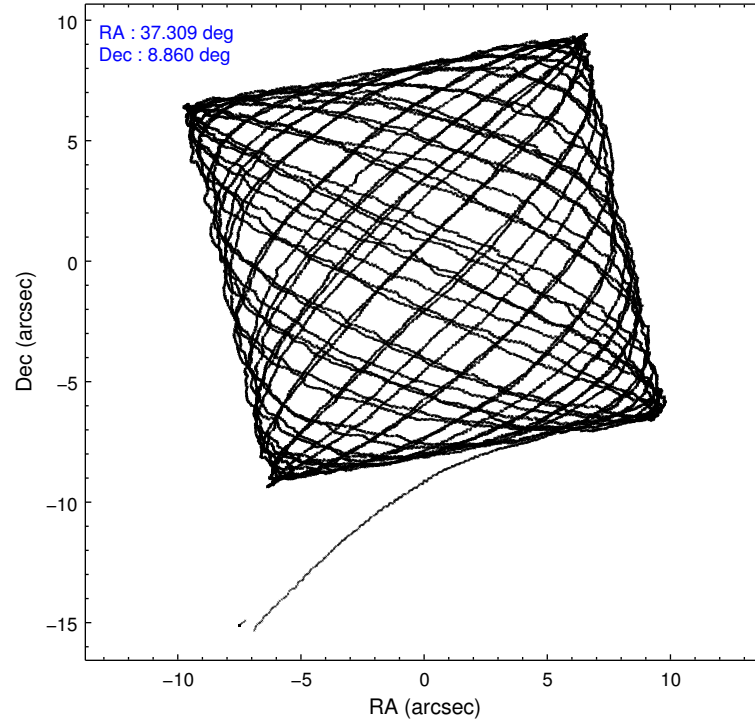
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	124478	132183	172524	171182
rejected events	111047	116895	96293	123780
rejected %	89%	88%	55%	72%

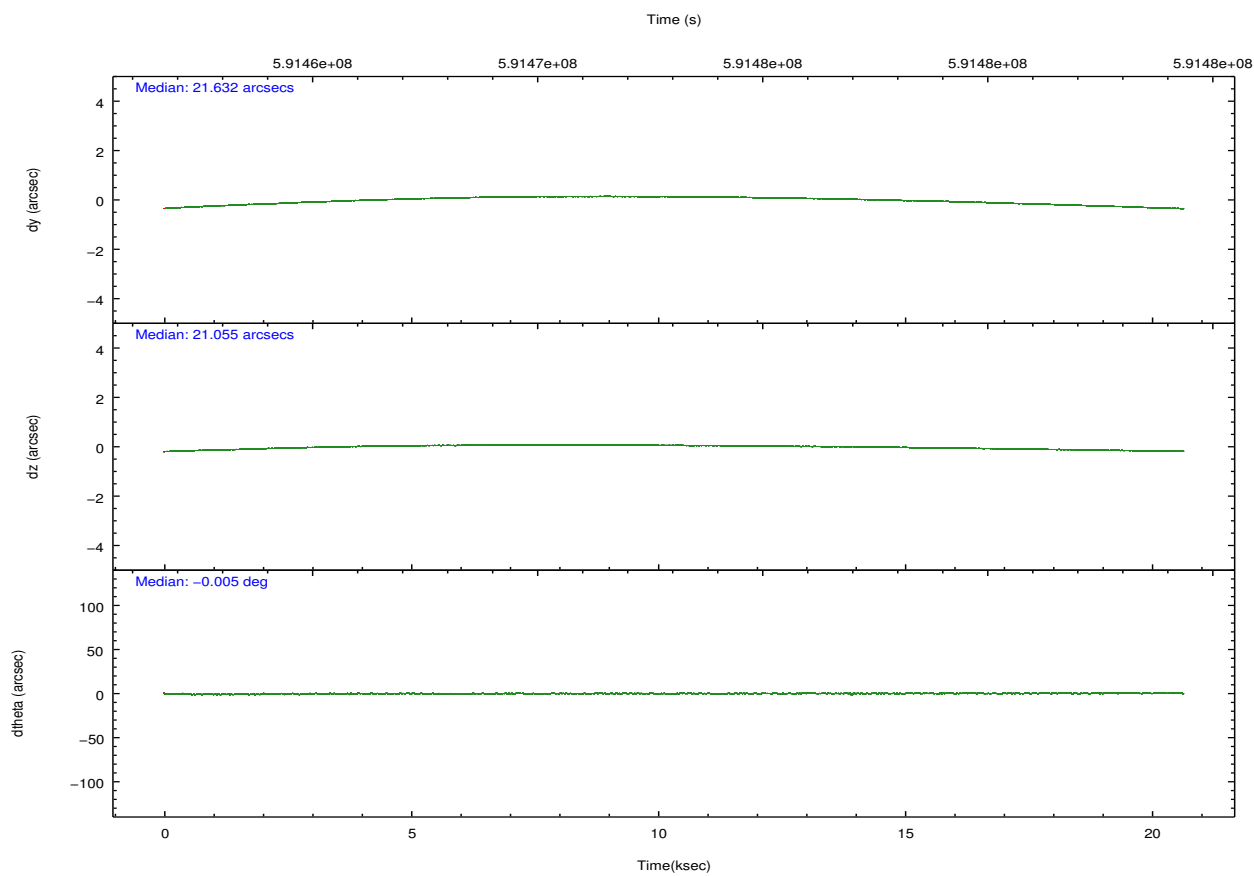
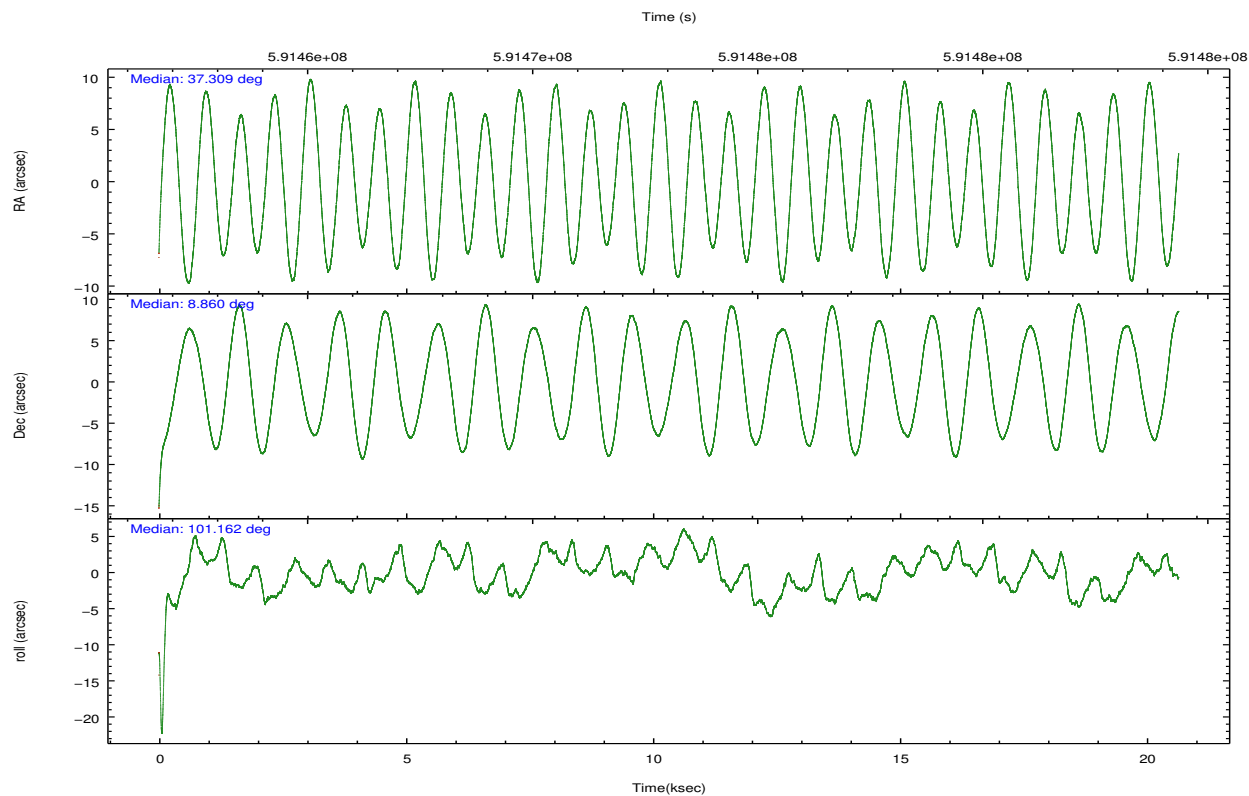
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4641	5074	6665	13368
	3%	3%	3%	7%
grade 1 events	64	64	204	146
	0%	0%	0%	0%
grade 2 events	2903	3620	16333	11461
	2%	2%	9%	6%
grade 3 events	1483	1494	6277	5119
	1%	1%	3%	2%
grade 4 events	1541	1569	6274	4673
	1%	1%	3%	2%
grade 5 events	6374	6428	17368	9388
	5%	4%	10%	5%
grade 6 events	2866	3533	40717	12791
	2%	2%	23%	7%
grade 7 events	104606	110401	78686	114236
	84%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	37.327803	37.30924274151755	CCD I2 on	N	N
[deg] Pointing Dec	8.839553	8.859957131450269	CCD I3 on	O1	Y
[deg] Pointing Roll	100.997894	101.1573830267049	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	O2	Y
[s] Observation start time (MET)	591462850.184000	591461499.5927	CCD S5 on	N	N
Observation start date	2016-09-28T15:13:02	2016-09-28T14:51:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	591483350.184000	591484458.56902	On-chip summing requested	N	N
Observation end date	2016-09-28T20:54:42	2016-09-28T21:14:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



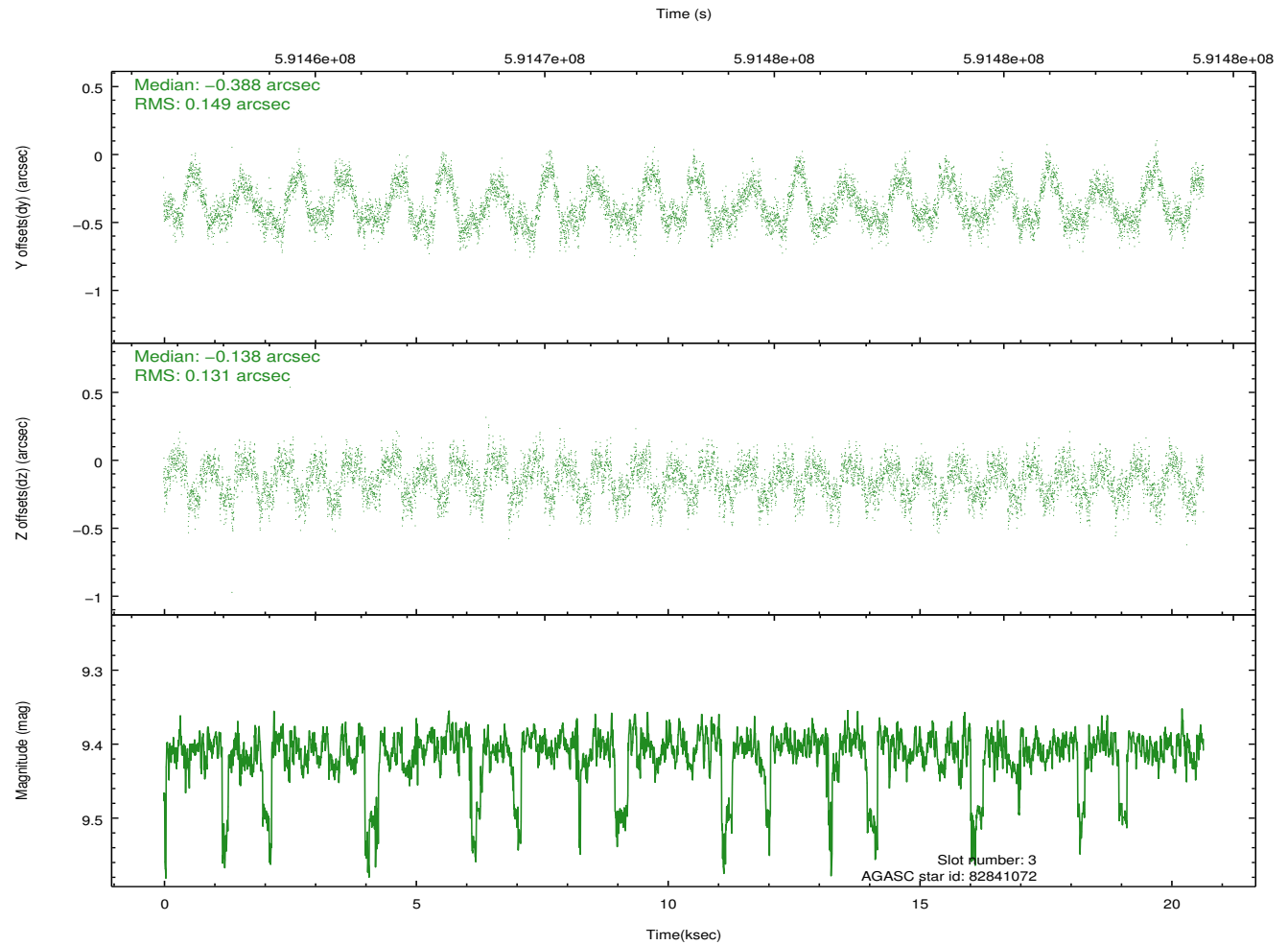
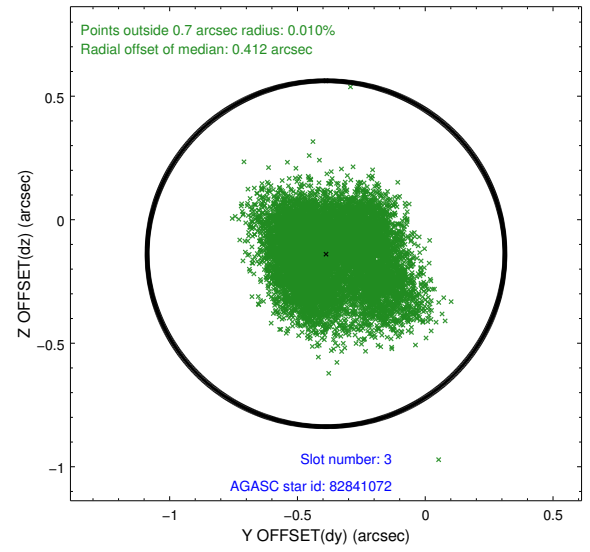
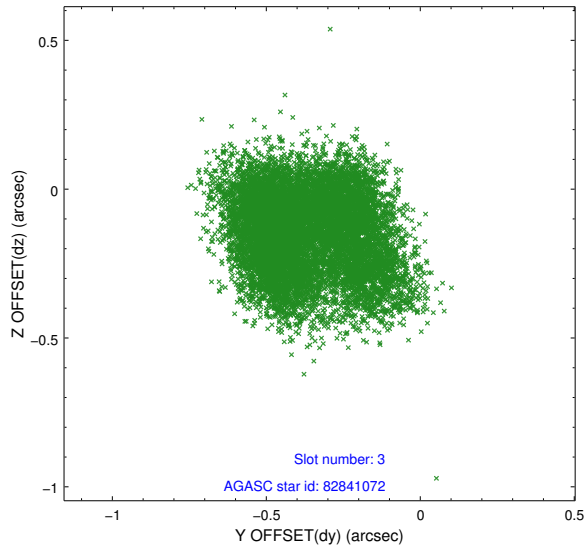


Slot Statistics

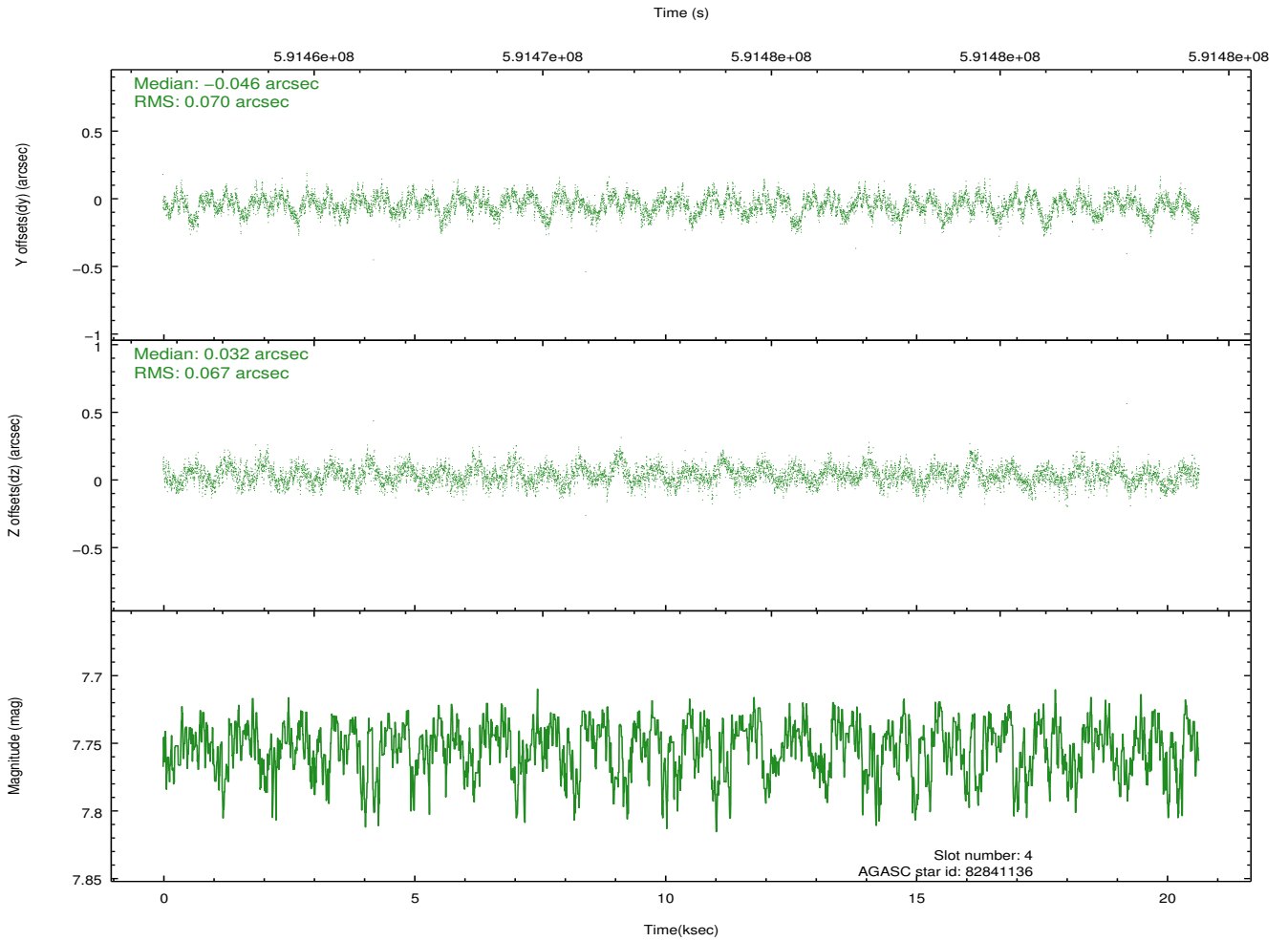
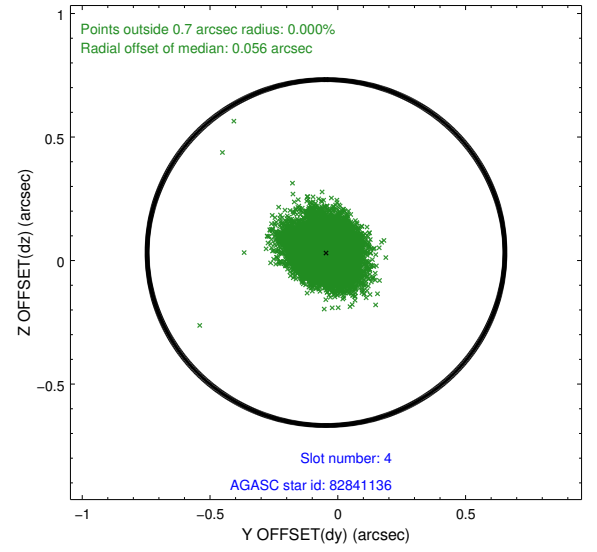
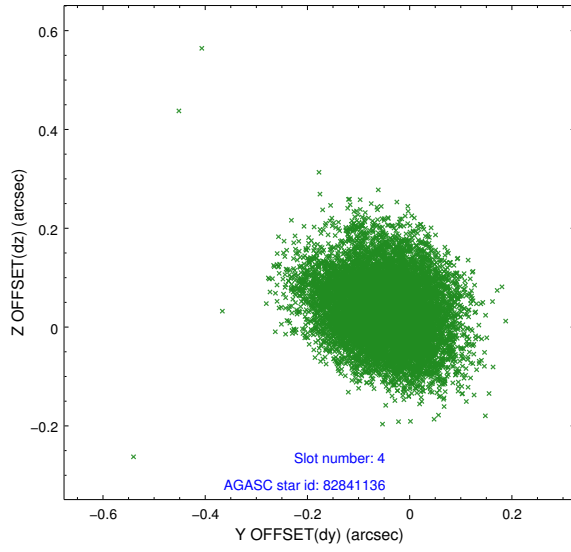
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	5036	-0.227	-0.141	0.009	0.015	0.000000	0.000000	-774.94	-1742.68
1	FID		ACIS-S-4	7.13	5037	0.504	0.147	0.009	0.017	0.000000	0.000000	2138.95	165.96
2	FID		ACIS-S-5	7.13	5037	-0.308	0.002	0.010	0.019	0.000000	0.000000	-1827.67	159.62
3	GUIDE	used	82841072	9.41	10057	-0.388	-0.138	0.214	0.332	36.989901	9.123129	1230.58	983.69
4	GUIDE	used	82841136	7.75	10066	-0.046	0.032	0.104	0.166	37.248353	8.379356	-1571.74	594.03
5	GUIDE	used	82841328	8.03	10072	-0.164	-0.603	0.108	0.178	37.227918	8.770441	-176.26	395.73
6	GUIDE	used	82847928	7.23	10073	0.154	0.182	0.113	0.181	37.396929	9.006341	543.08	-355.69
7	GUIDE	used	82838688	8.24	10069	0.421	0.539	0.089	0.144	37.867330	8.347926	-2102.07	-1548.27

2.4 Star Slots

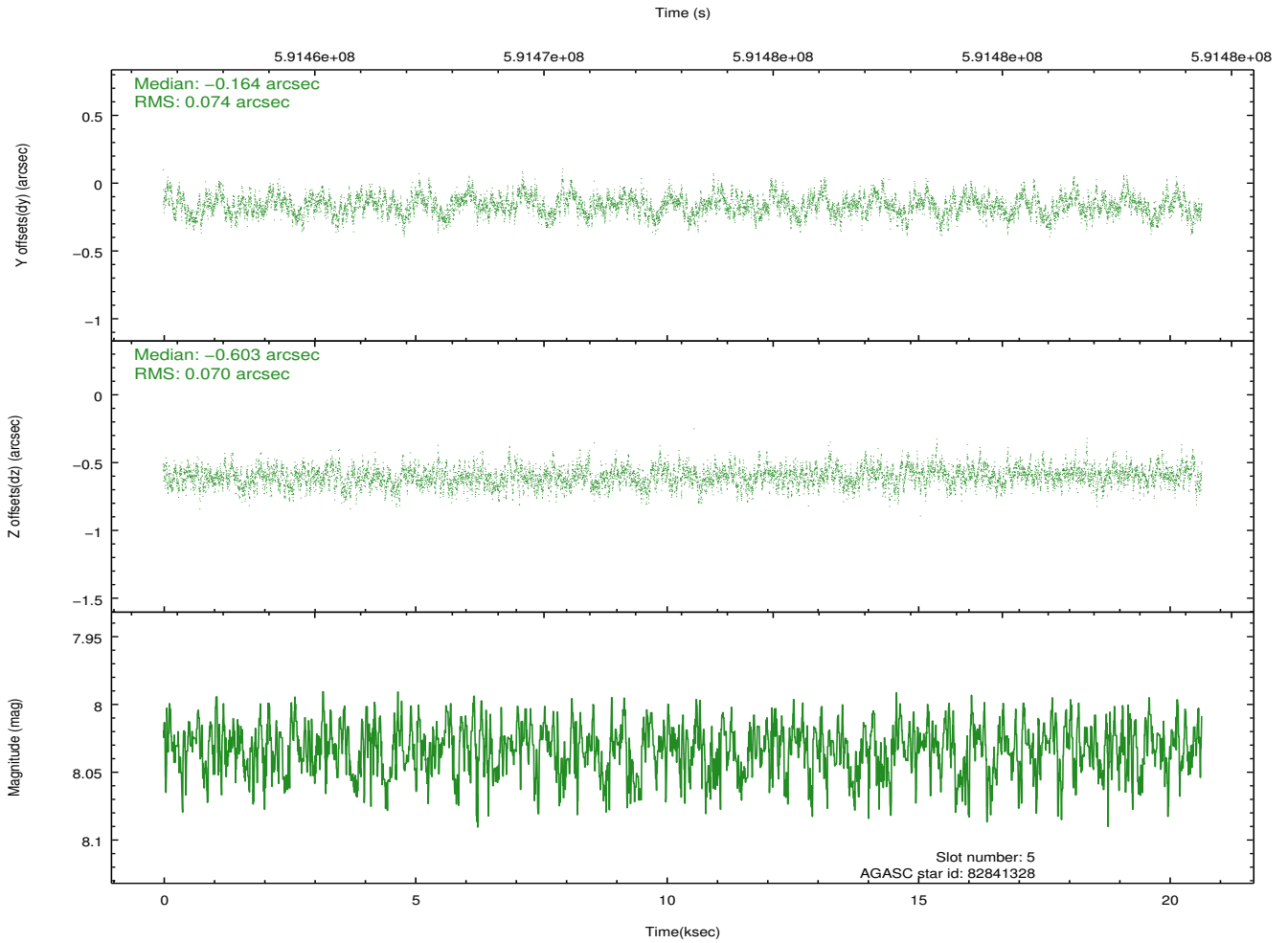
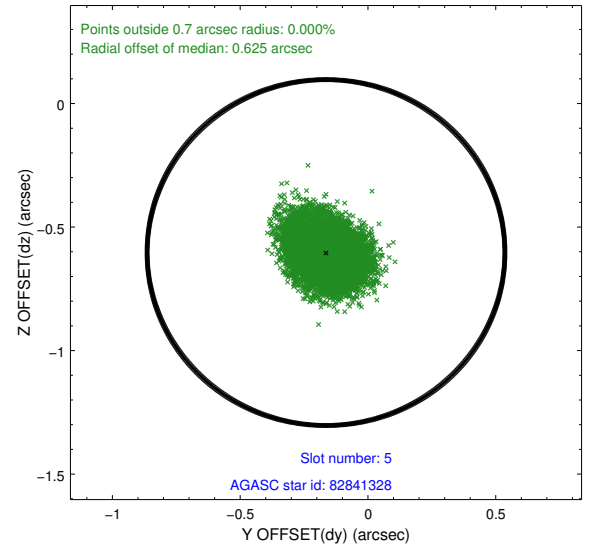
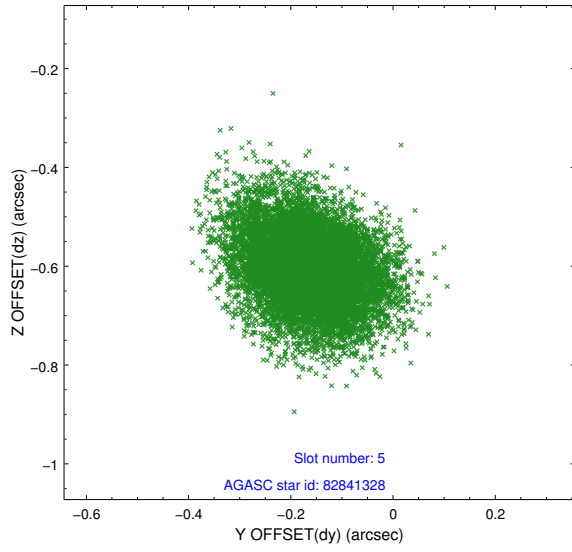
2.4.1 Slot 3



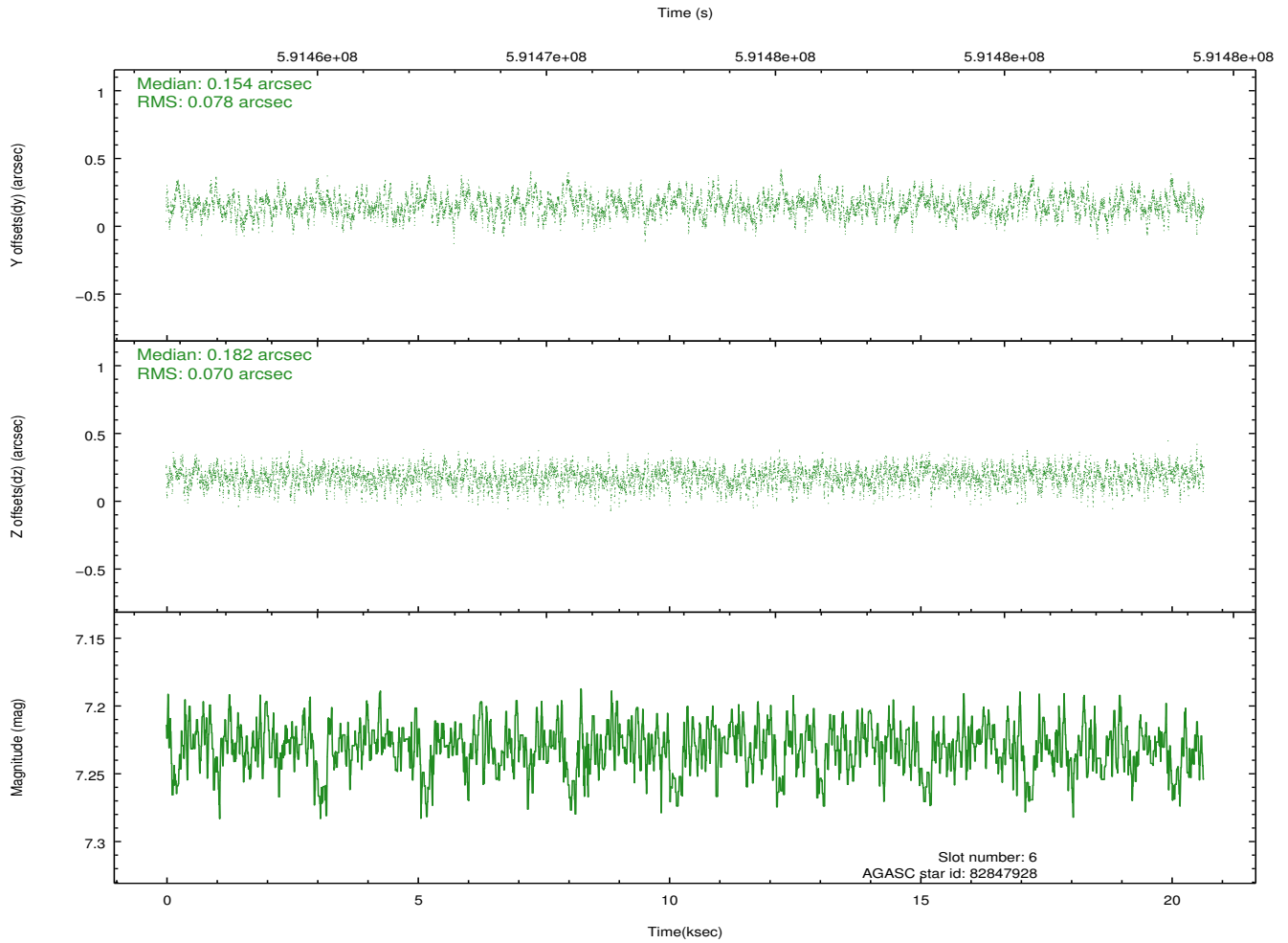
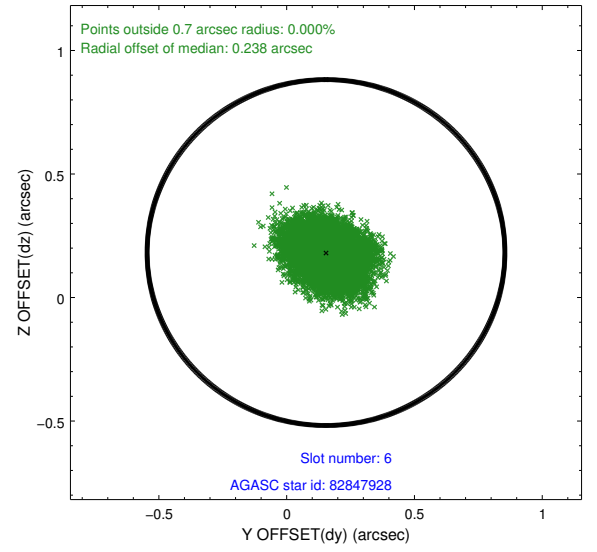
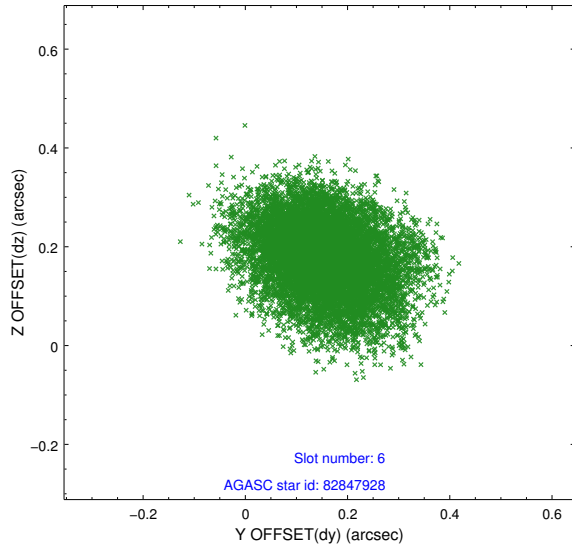
2.4.2 Slot 4



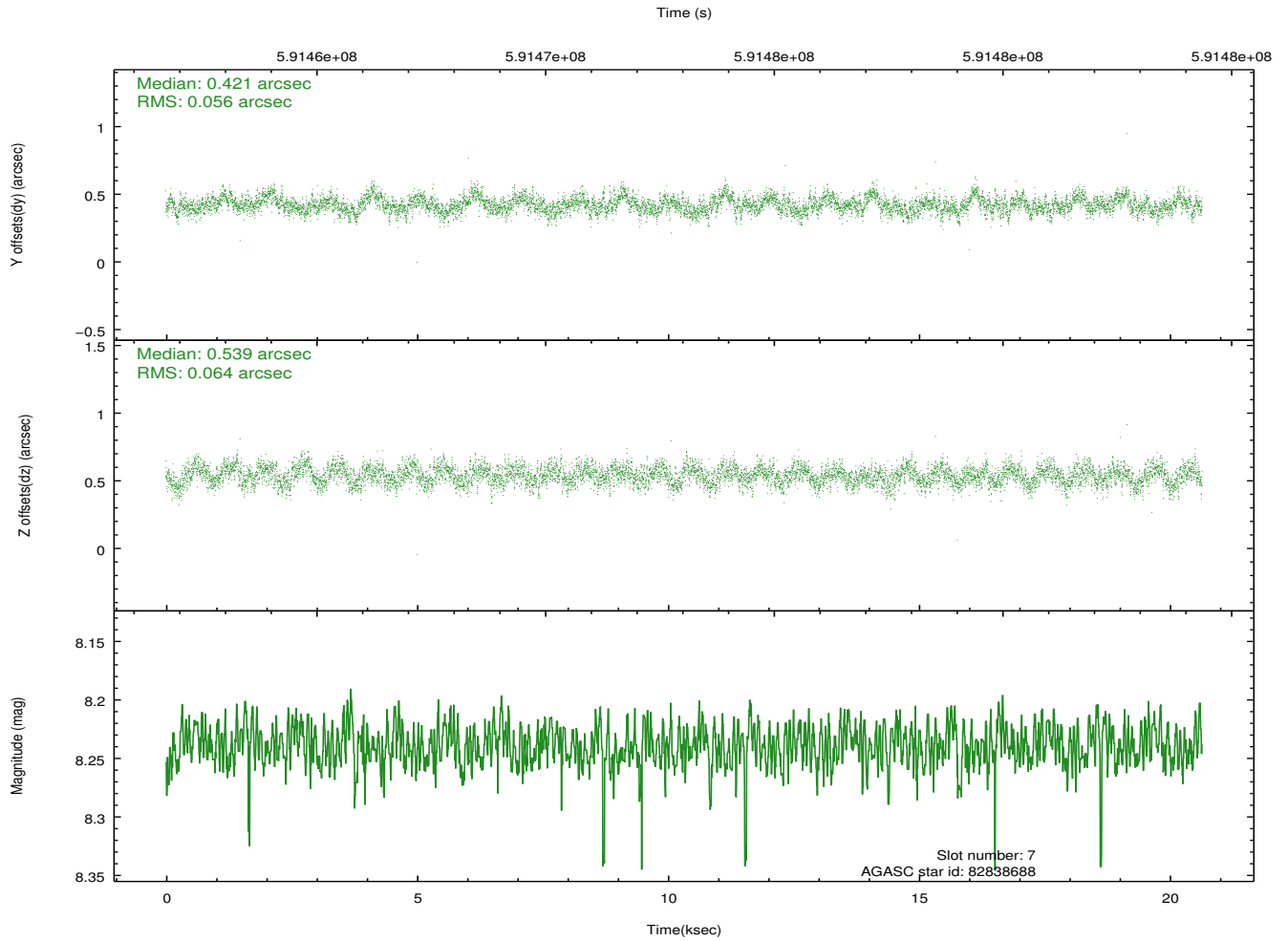
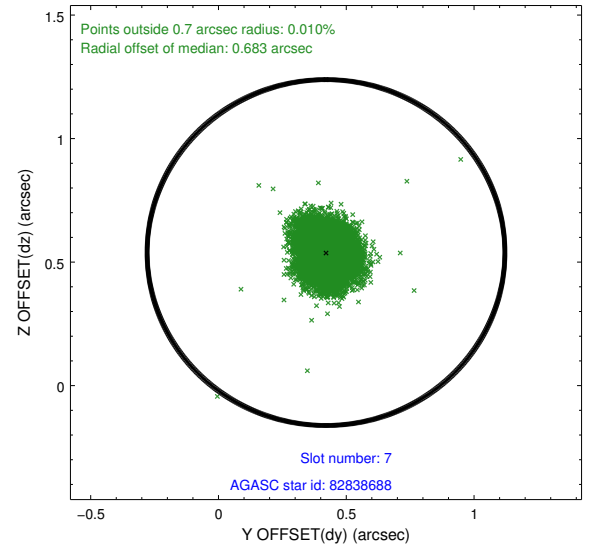
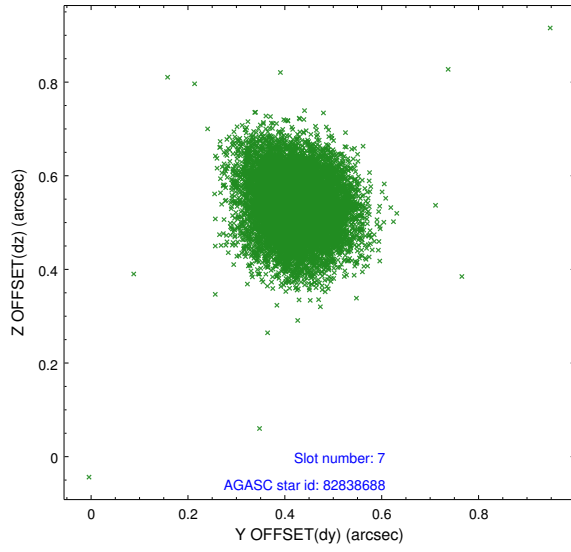
2.4.3 Slot 5



2.4.4 Slot 6

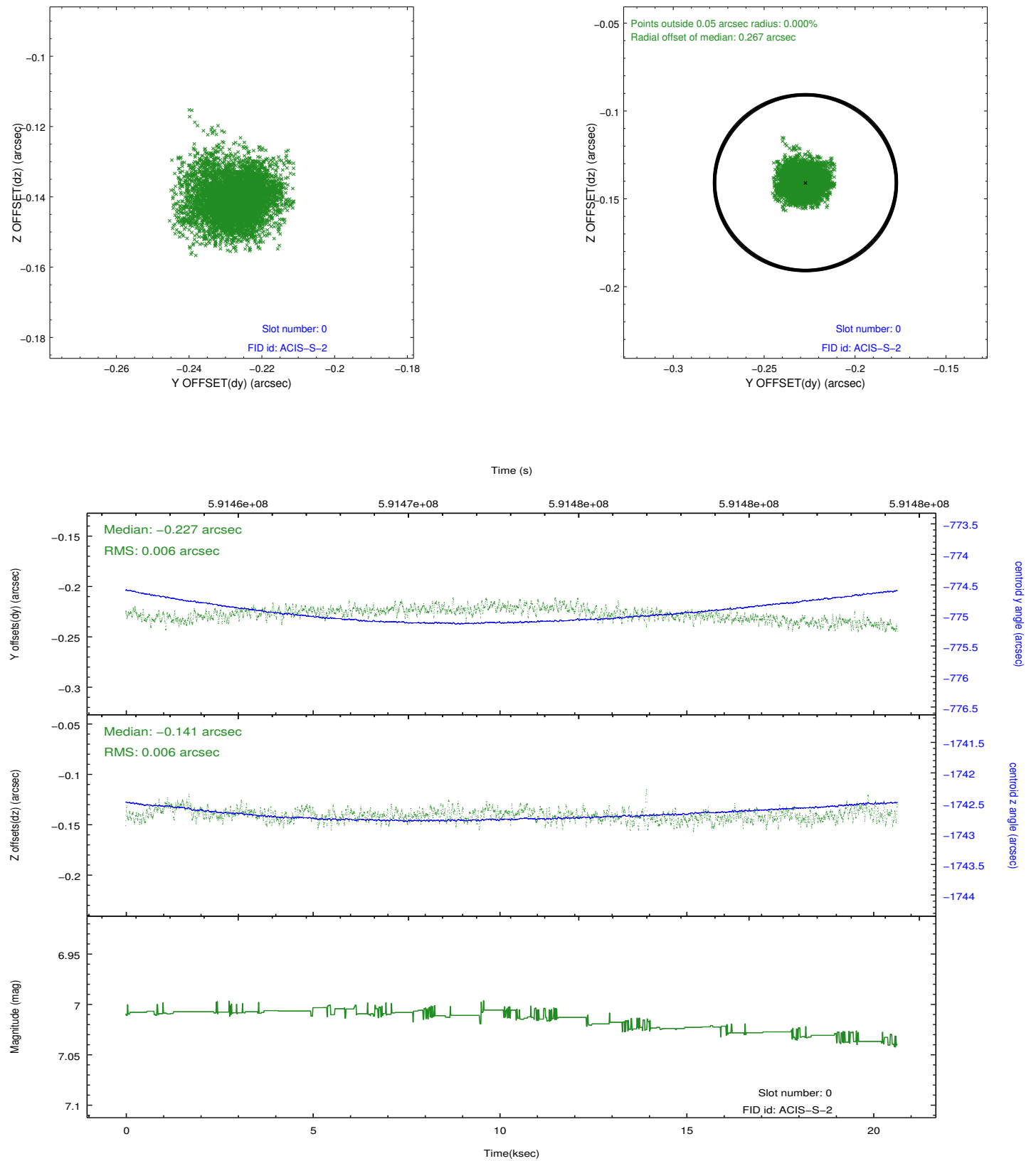


2.4.5 Slot 7

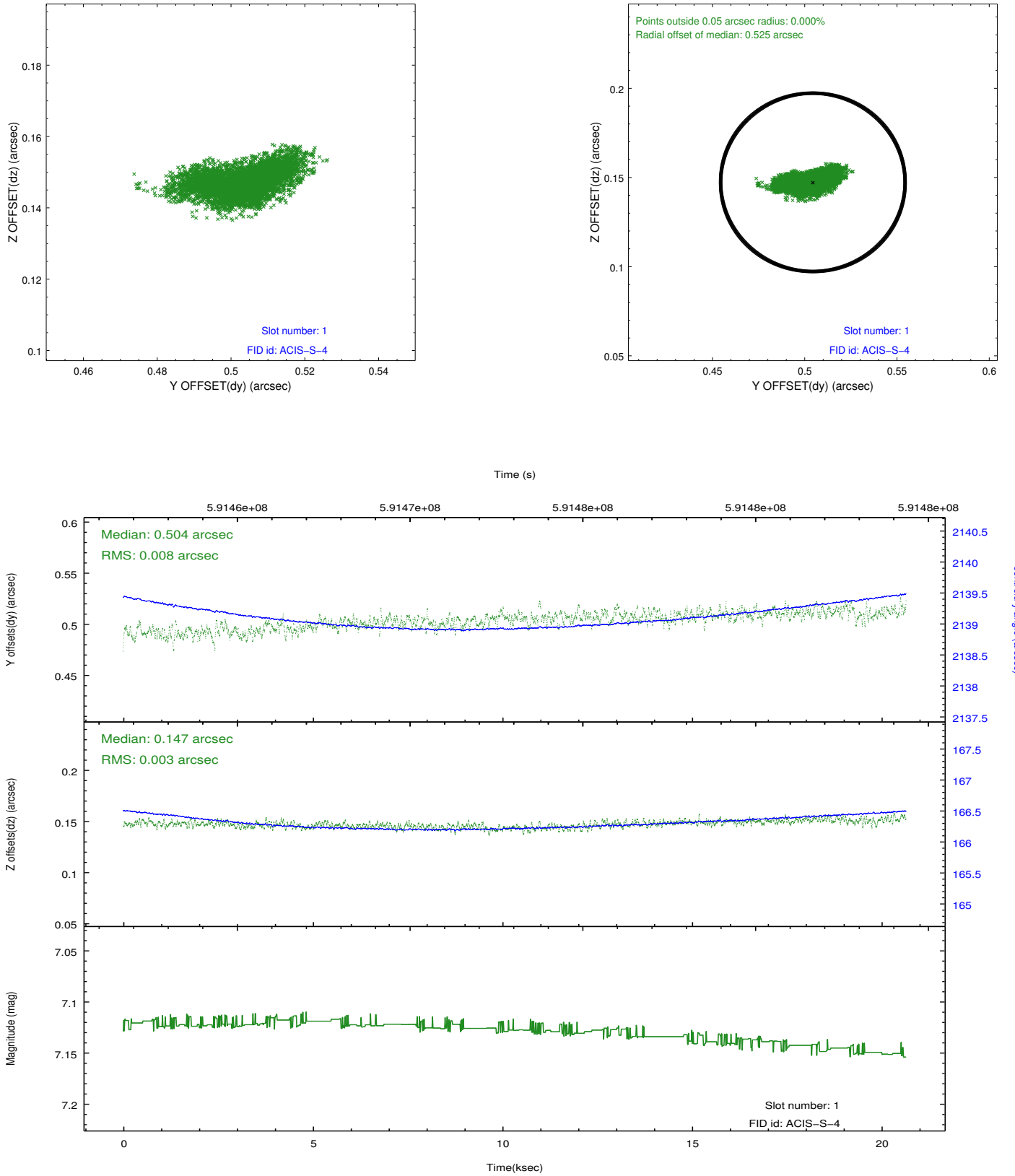


2.5 FID Slots

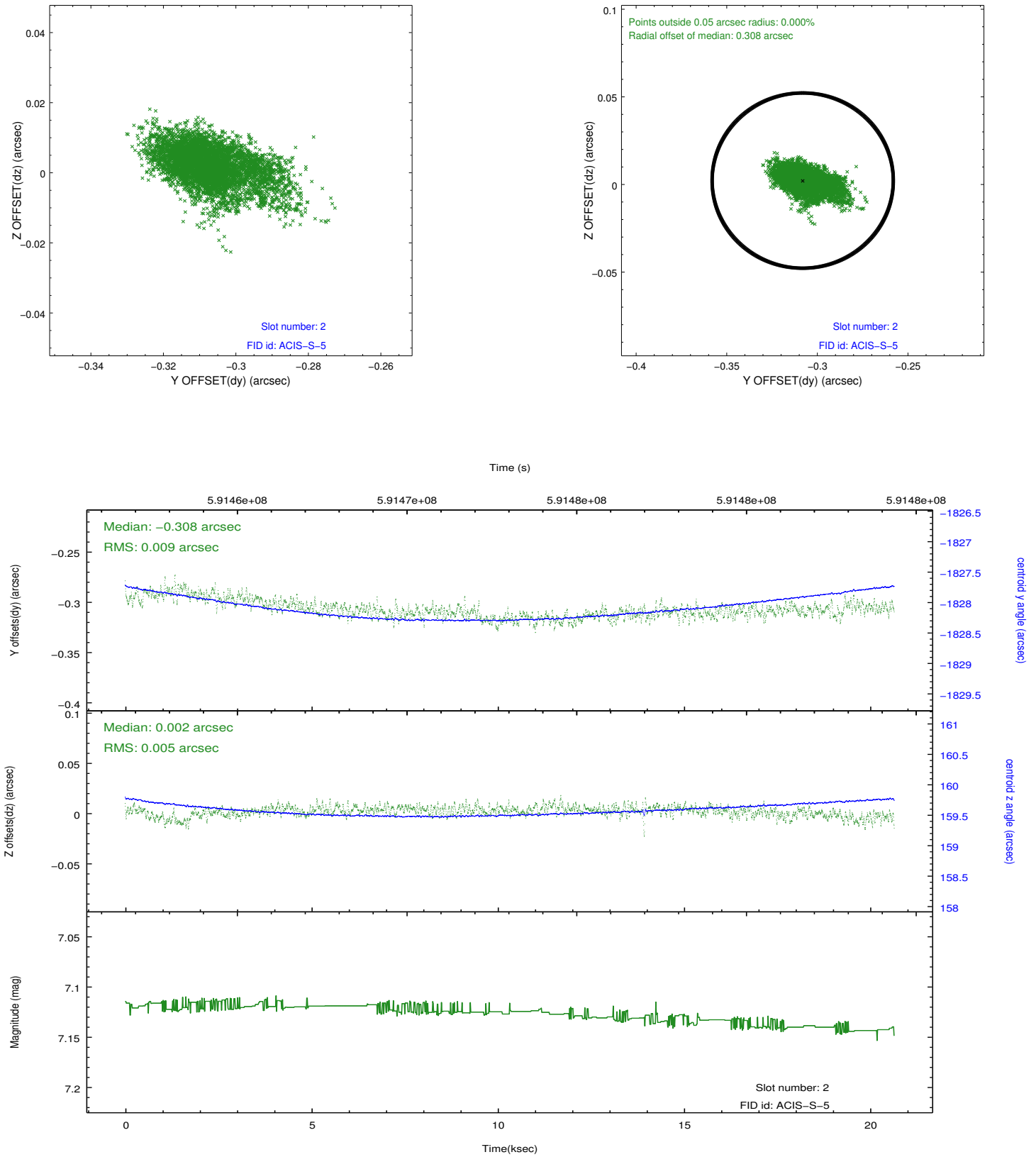
2.5.1 Slot 0



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)	2016.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.289408179879

A.2 Comments