

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19521 - L2 Version 1
Chandra X-Ray Center

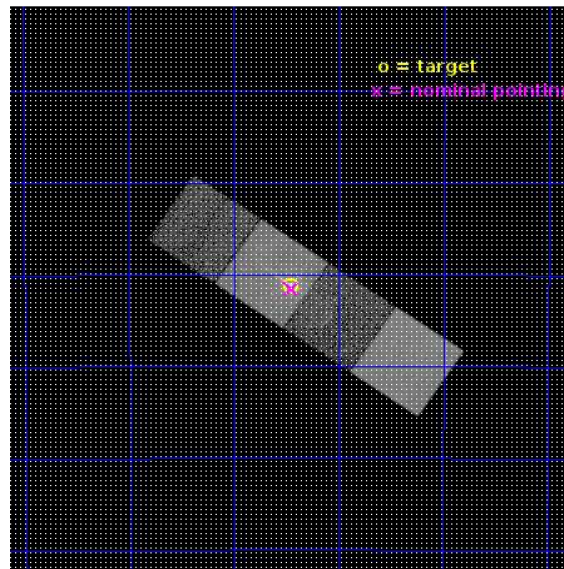
L2 Processing Date : Sep 18 2017

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1 Front

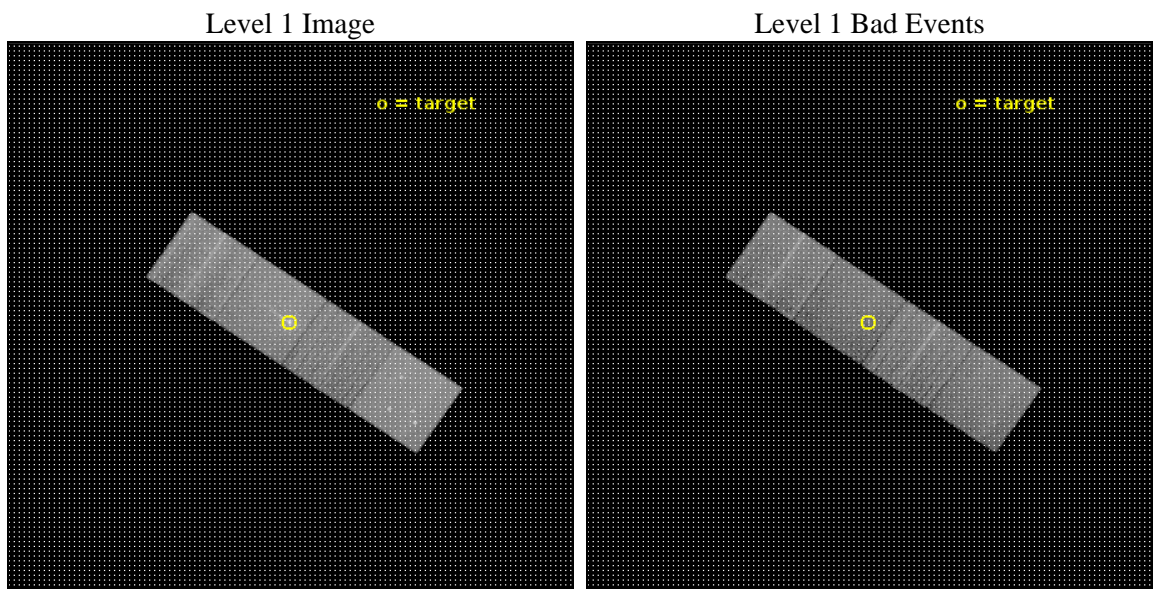
seq_num	703369	Sequence number
obs_id	19521	Observation id
title	Temporal variability and proper motions in the inner jet of Centaurus A	Proposal title
observer	Paul Nulsen	Principal investigator
object	Centaurus A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.365	Observer's specified target RA [deg]
dec_targ	-43.019167	Observer's specified target Dec [deg]
ra_nom	201.36338070149	Nominal RA [deg]
dec_nom	-43.025610841732	Nominal Dec [deg]
roll_nom	214.15551626547	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15065.744734406	Sum of GTIs [s]
livetime	14868.899688212	Livetime [s]
ontime5	15065.703694463	Sum of GTIs [s]
ontime6	15065.6626544	Sum of GTIs [s]
ontime7	15065.744734406	Sum of GTIs [s]
ontime8	15065.621614456	Sum of GTIs [s]
l2events	179433	Number of level 2 events



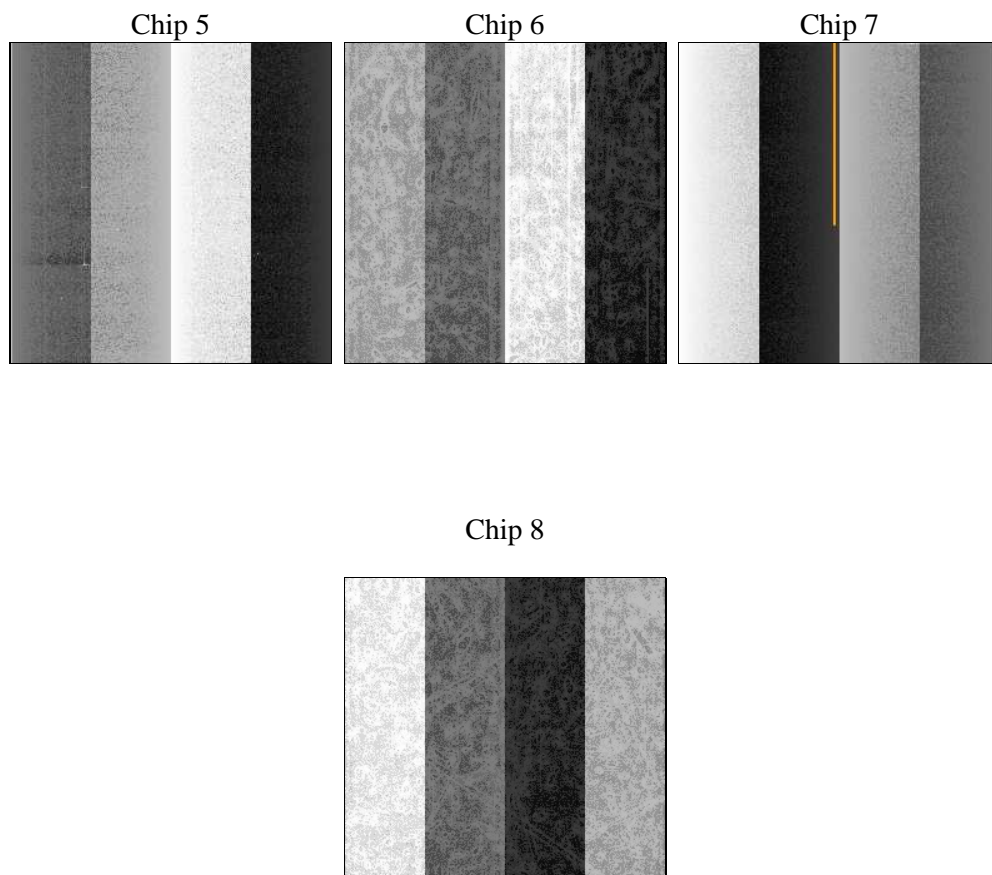
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15065.744734406	Sum of GTIs [s]
caldsver	4.7.6	 	ontime5	15065.703694463	Sum of GTIs [s]
date	2017-09-18T15:11:32	Date and time of file creation	ontime6	15065.6626544	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	15065.744734406	Sum of GTIs [s]
			ontime8	15065.621614456	Sum of GTIs [s]
			l1events	555839	Number of level 1 events

2.1.4 Events

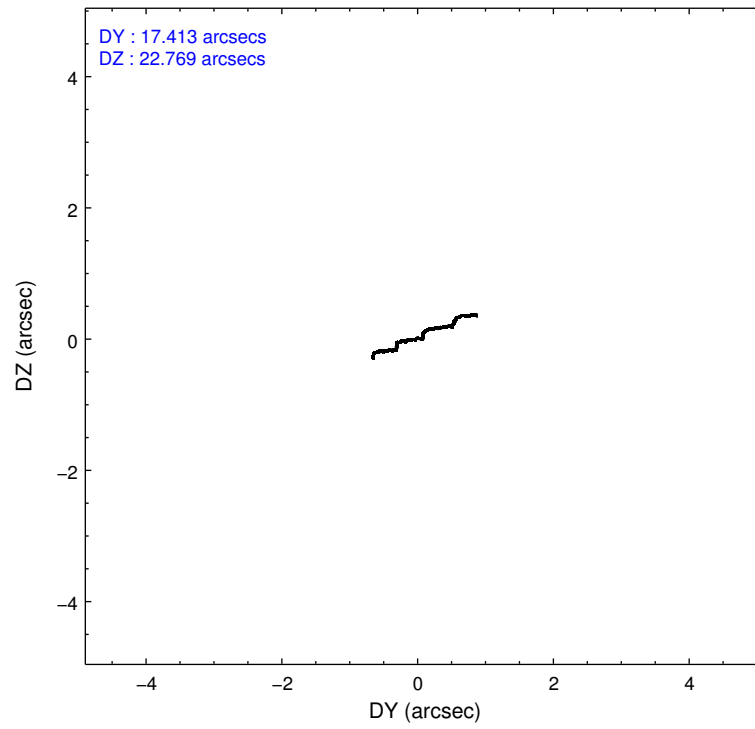
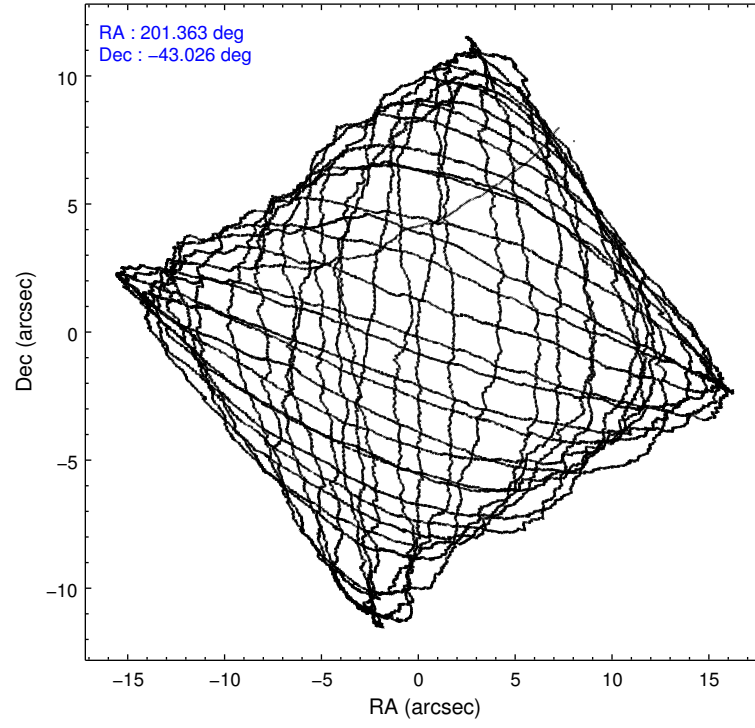
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	162466	105849	153231	134293
rejected events	81125	91146	72878	94894
rejected %	49%	86%	47%	70%

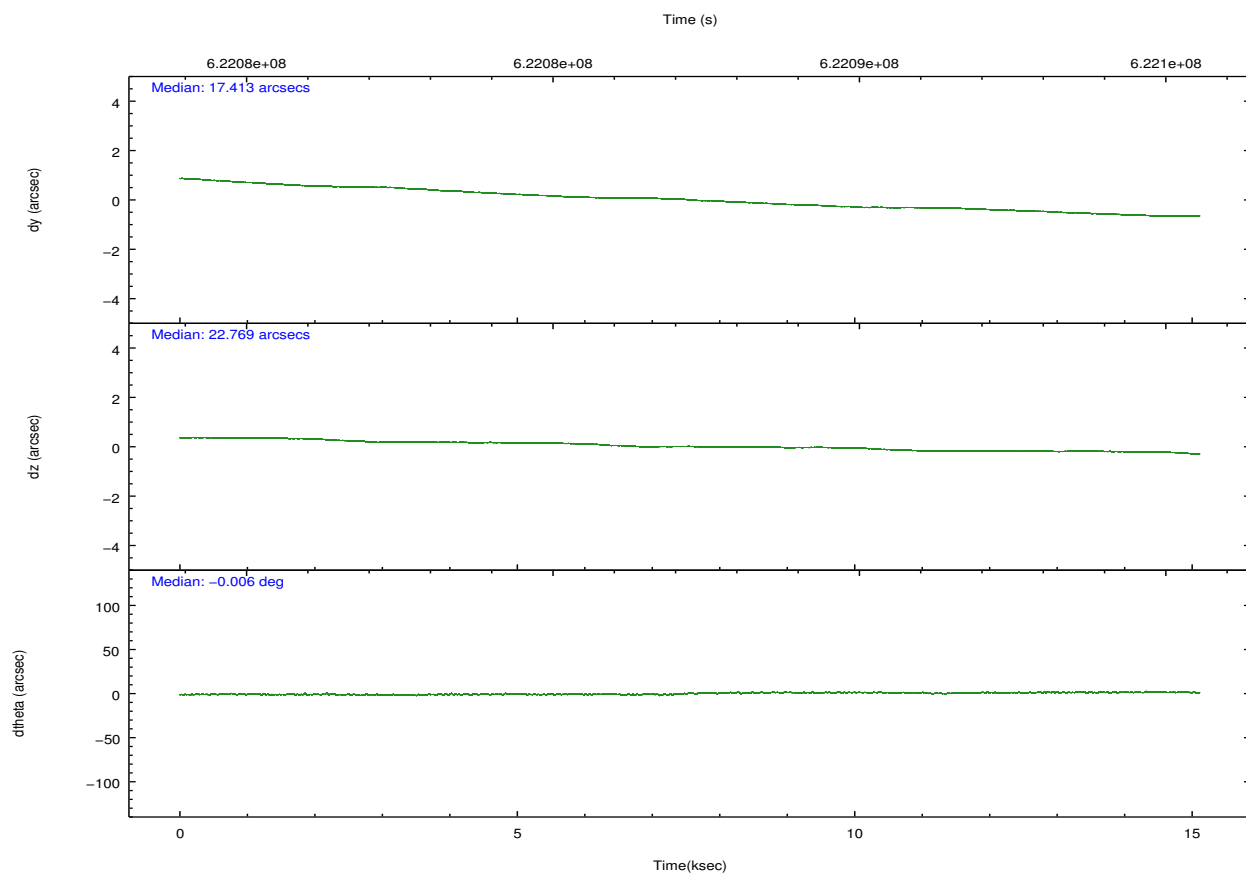
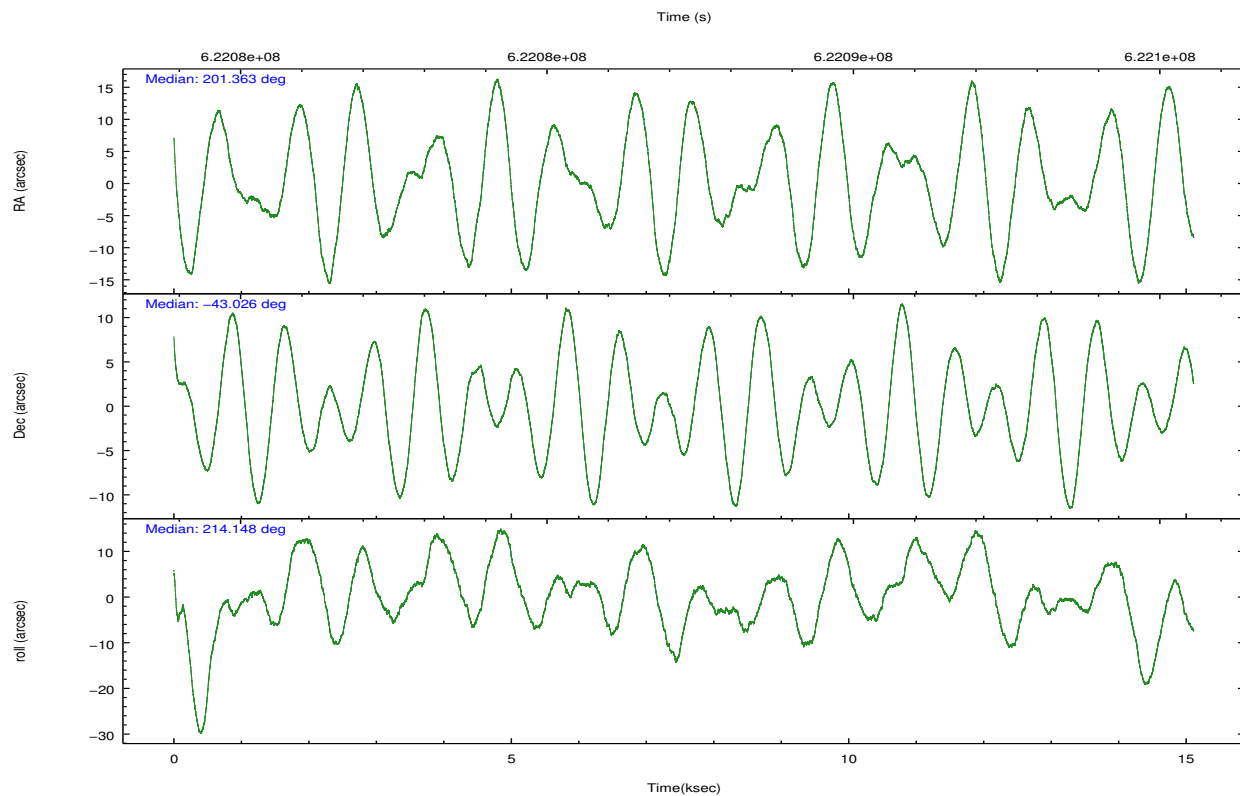
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9663	6209	10422	11692
	5%	5%	6%	8%
grade 1 events	512	59	302	112
	0%	0%	0%	0%
grade 2 events	24600	3088	17774	9793
	15%	2%	11%	7%
grade 3 events	2733	1333	7241	3767
	1%	1%	4%	2%
grade 4 events	2538	1258	7160	3674
	1%	1%	4%	2%
grade 5 events	11583	4963	13838	7181
	7%	4%	9%	5%
grade 6 events	41841	2820	37780	10480
	25%	2%	24%	7%
grade 7 events	68996	86119	58714	87594
	42%	81%	38%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	201.379308	201.363380701487	CCD I2 on	N	N
[deg] Pointing Dec	-43.000771	-43.02561084173154	CCD I3 on	O1	N
[deg] Pointing Roll	214.009764	214.1555162654678	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	622079786.184000	622078026.89473	CCD S5 on	N	N
Observation start date	2017-09-17T23:55:17	2017-09-17T23:27:06	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	622094786.184000	622095771.69576	On-chip summing requested	N	N
Observation end date	2017-09-18T04:05:17	2017-09-18T04:22:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



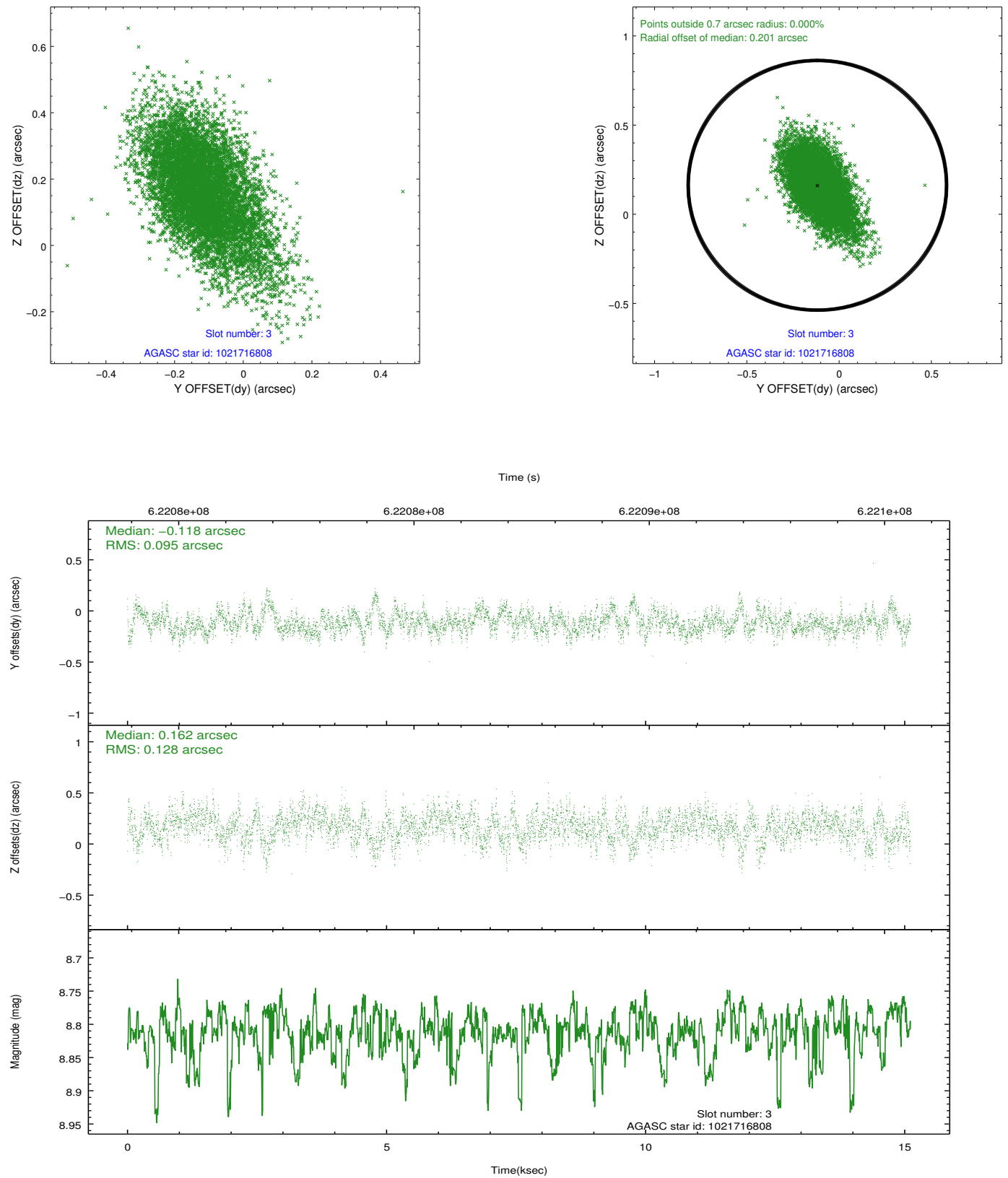


Slot Statistics

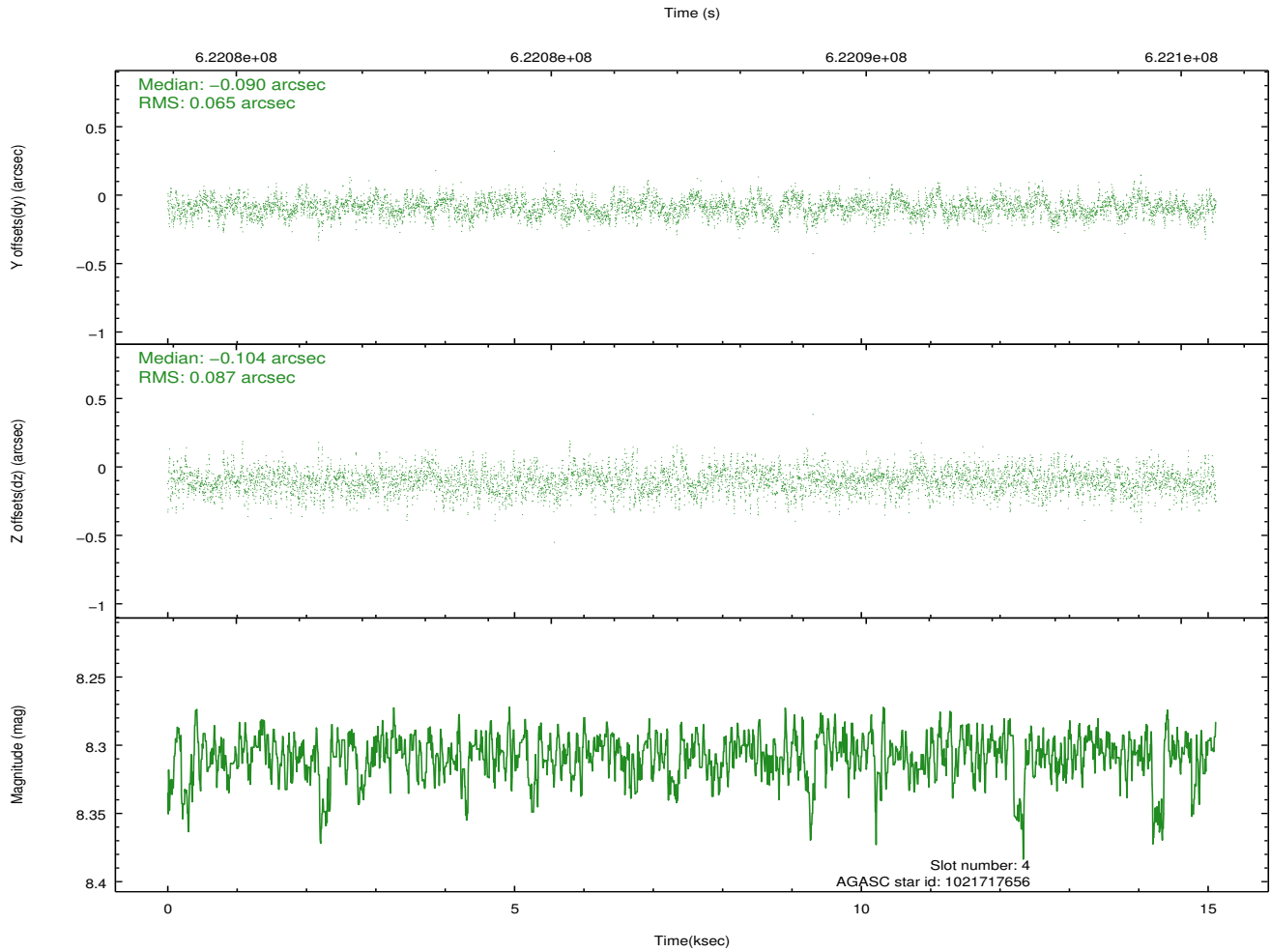
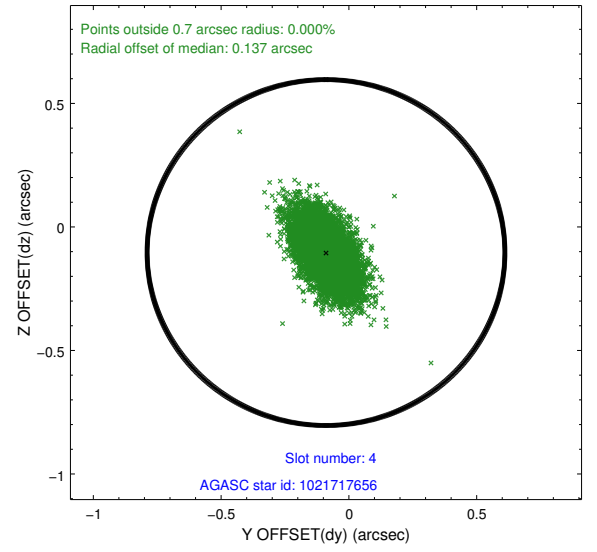
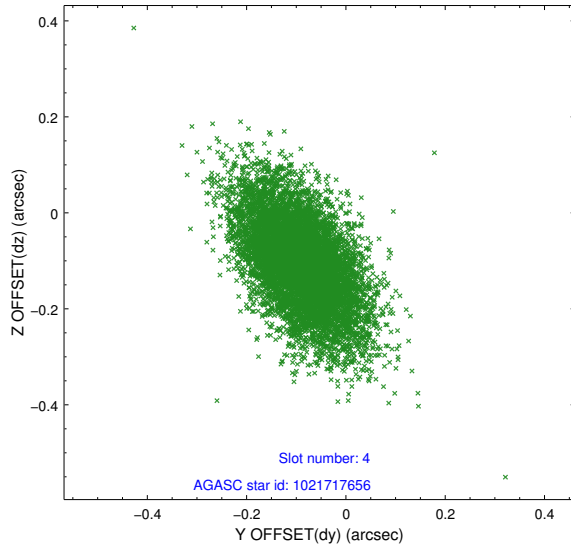
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.04	3686	0.049	-0.019	0.012	0.019	0.000000	0.000000	925.65	-1740.03
1	FID		ACIS-S-4	7.06	3685	0.327	-0.006	0.015	0.024	0.000000	0.000000	2143.46	163.86
2	FID		ACIS-S-5	7.06	3686	-0.405	0.036	0.015	0.026	0.000000	0.000000	-1823.34	157.75
3	GUIDE	used	1021716808	8.81	7366	-0.118	0.162	0.162	0.293	200.901189	-42.531395	109.29	-2106.78
4	GUIDE	used	1021717656	8.31	7371	-0.090	-0.104	0.112	0.197	201.139642	-43.082878	688.54	-106.80
5	GUIDE	used	1021719704	7.57	7370	-0.058	-0.098	0.140	0.244	200.511976	-43.050426	1998.45	-1117.64
6	GUIDE	used	1021721304	9.61	7358	0.289	0.005	0.267	0.390	201.117326	-42.480412	-469.39	-1941.03
7	GUIDE	used	1022235840	9.40	7362	0.004	0.033	0.223	0.367	201.679306	-43.544276	446.32	2060.98

2.4 Star Slots

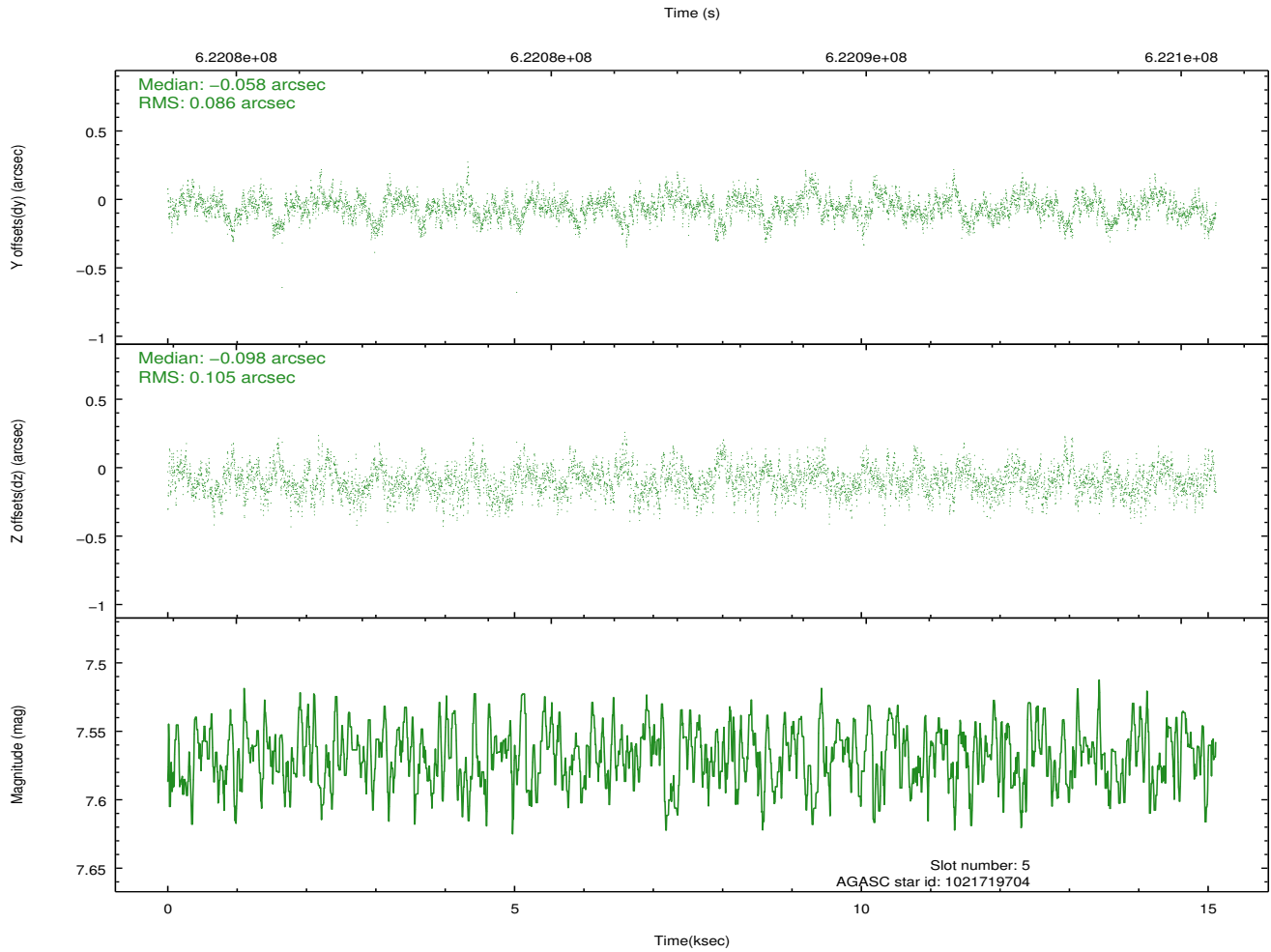
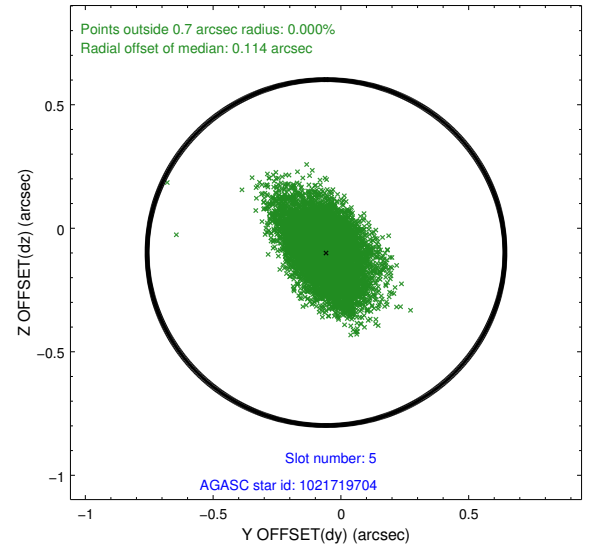
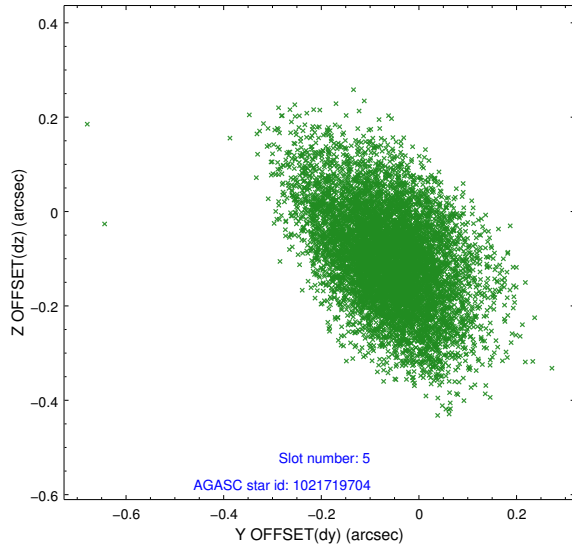
2.4.1 Slot 3



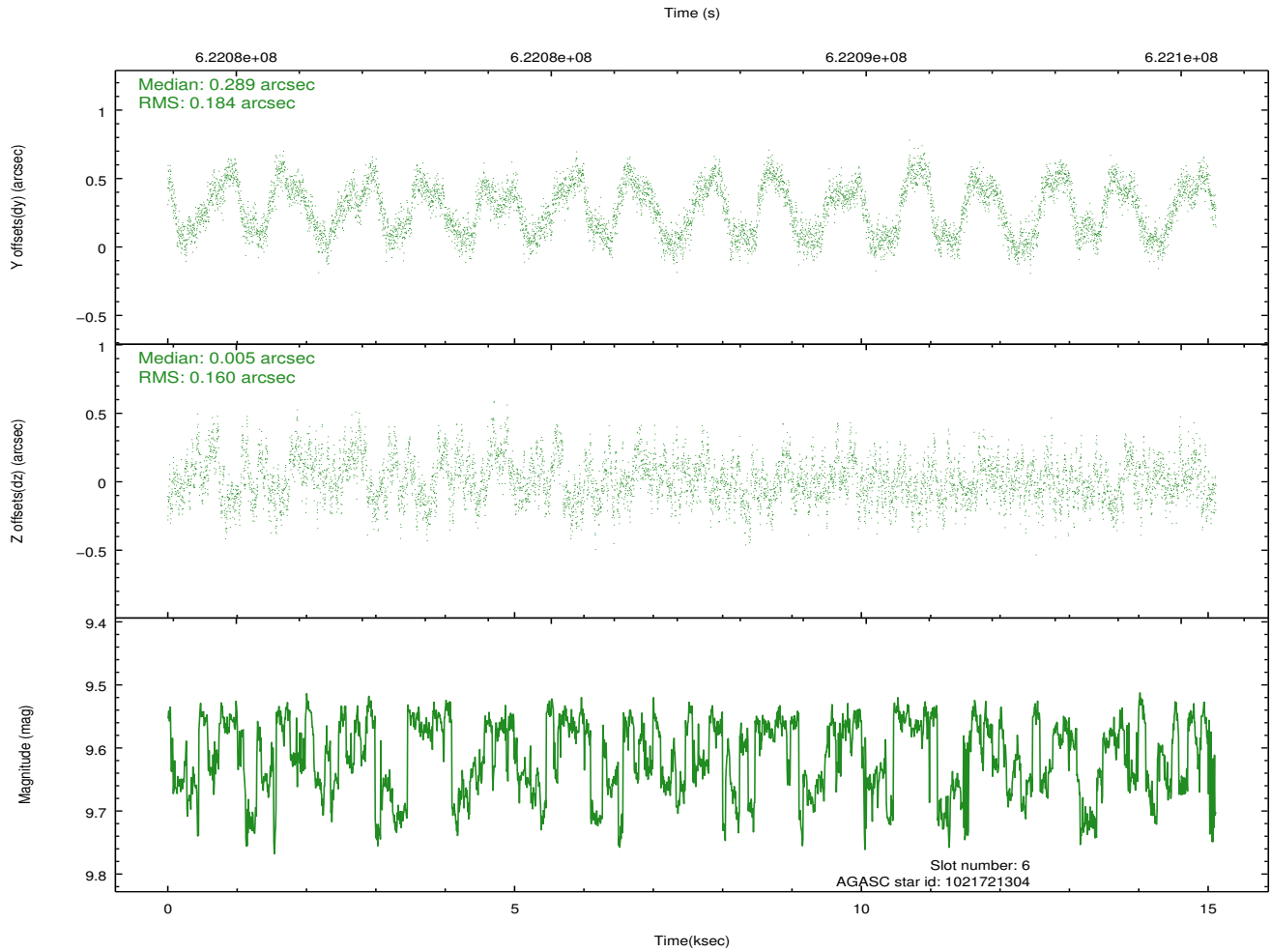
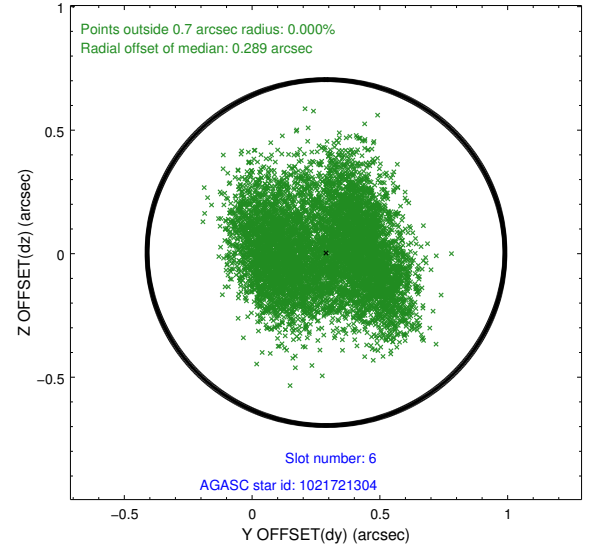
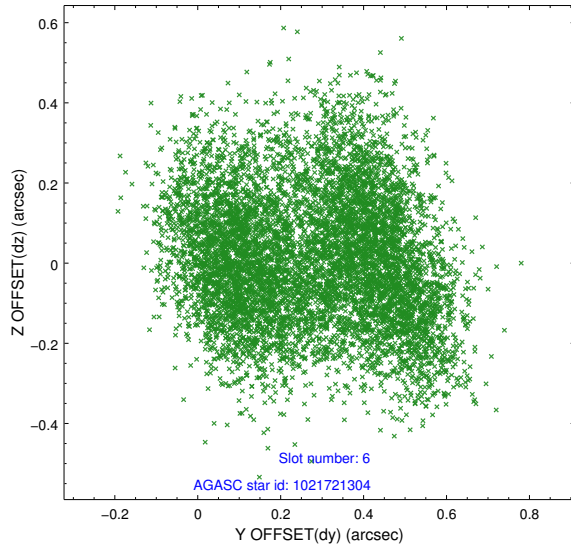
2.4.2 Slot 4



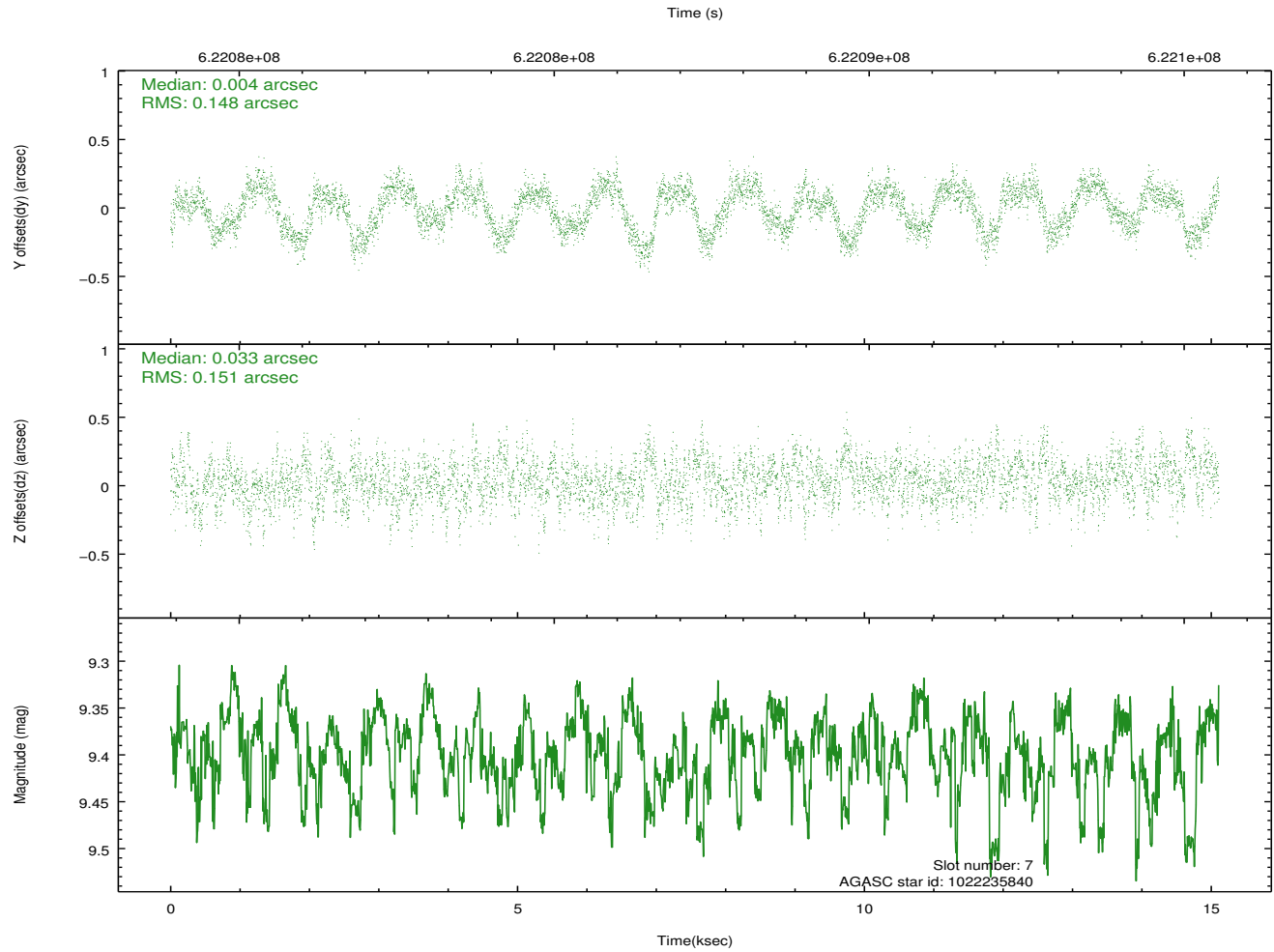
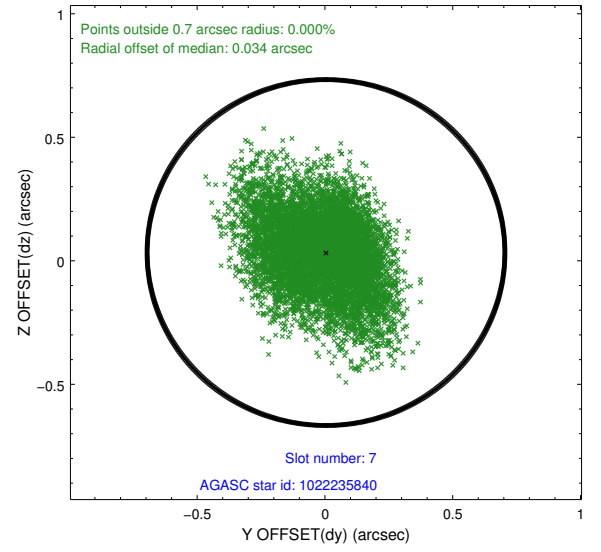
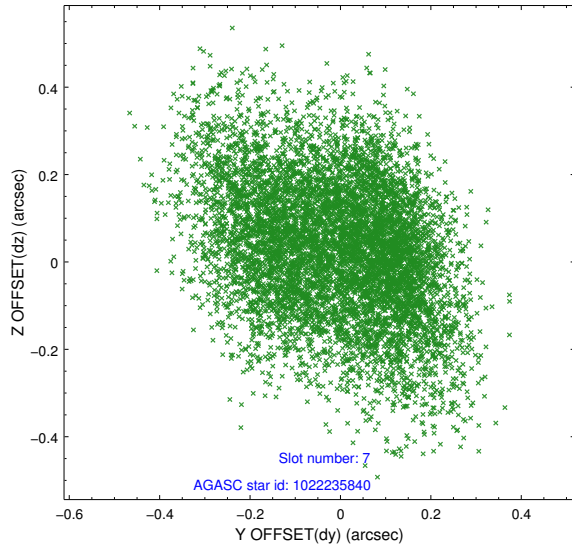
2.4.3 Slot 5



2.4.4 Slot 6

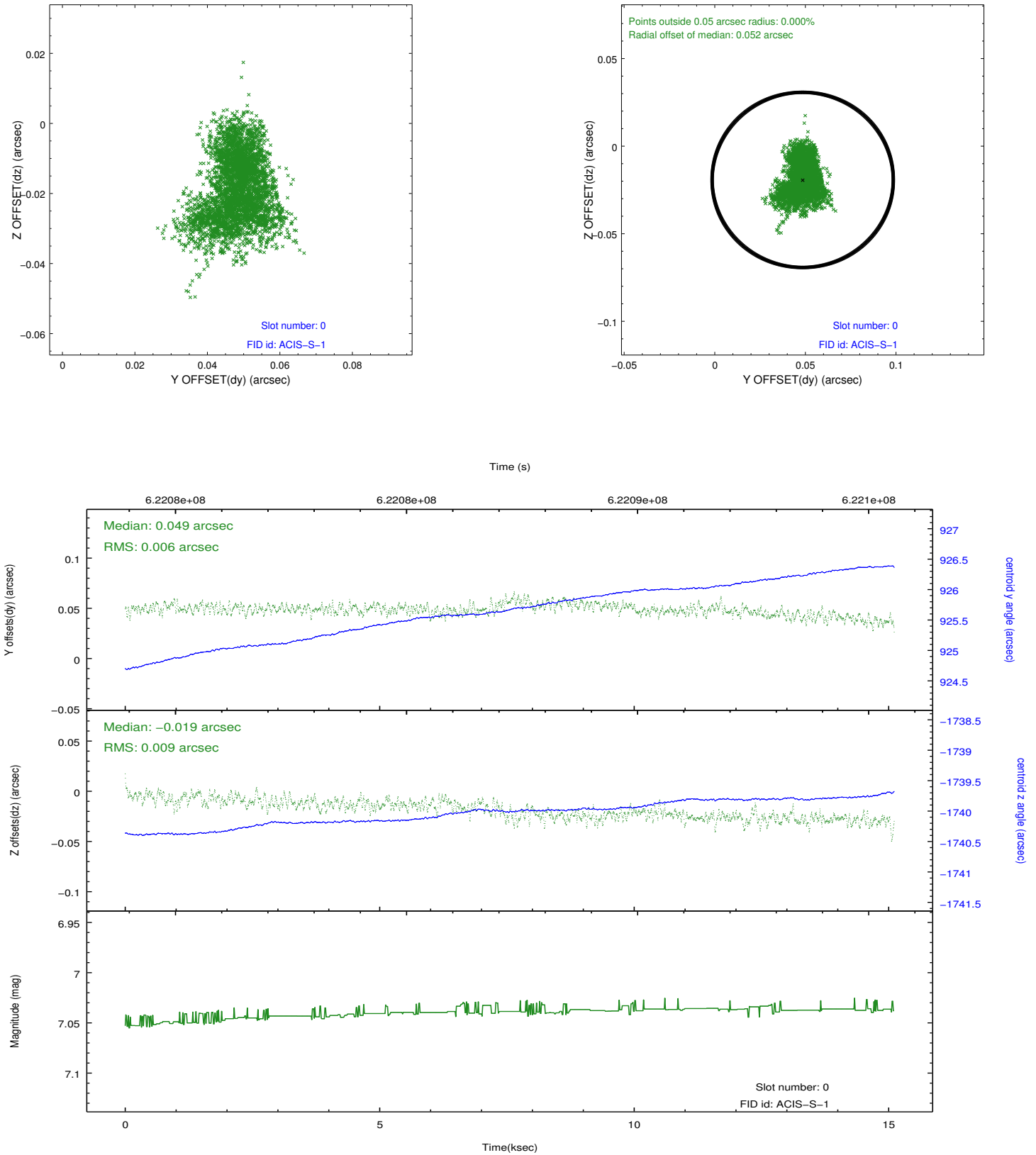


2.4.5 Slot 7

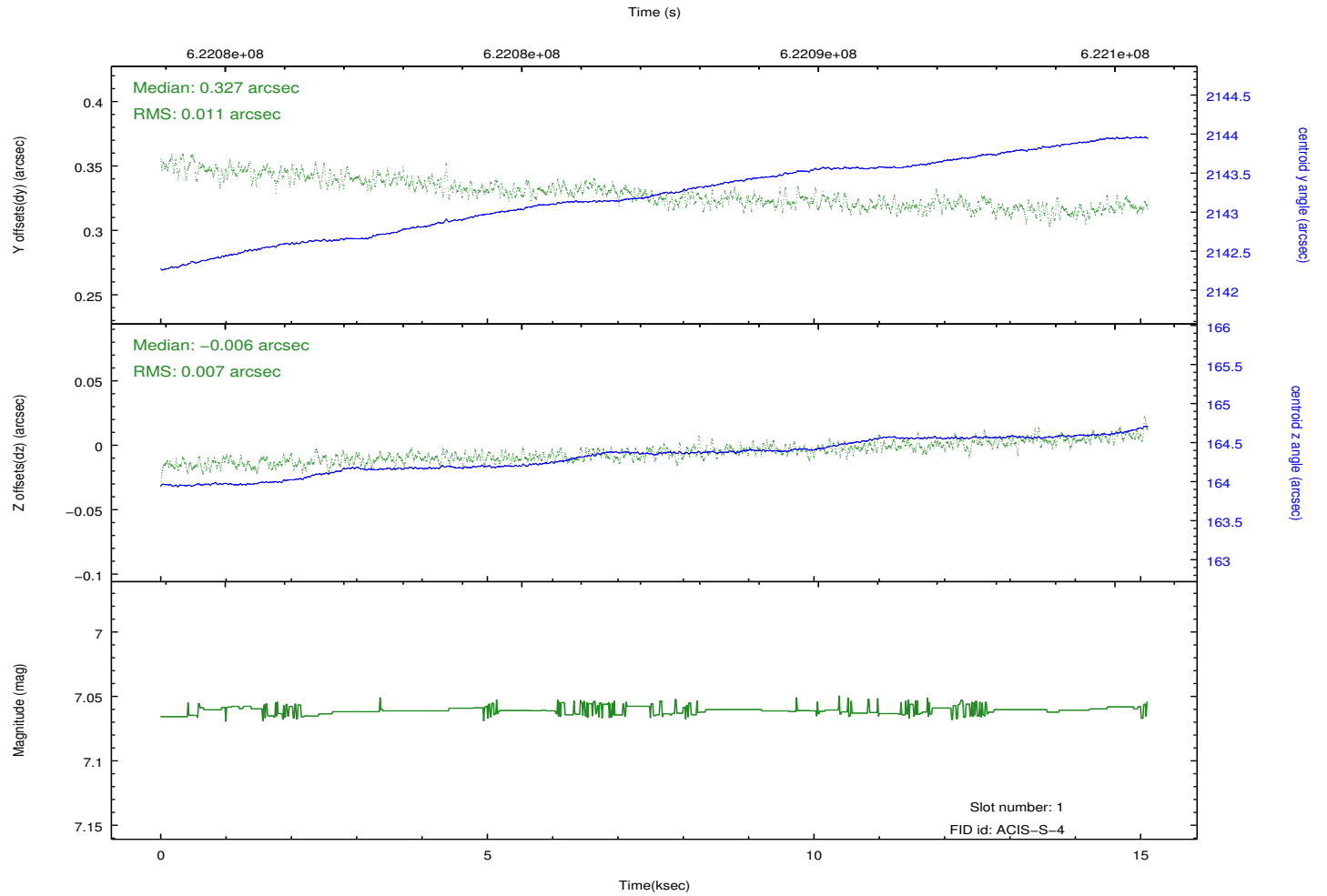
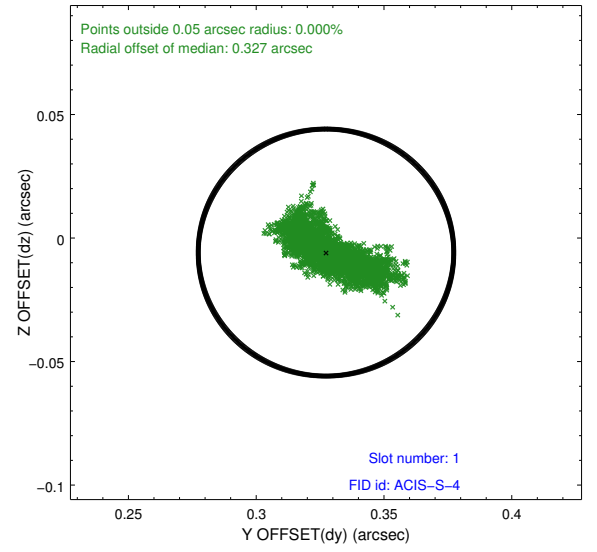
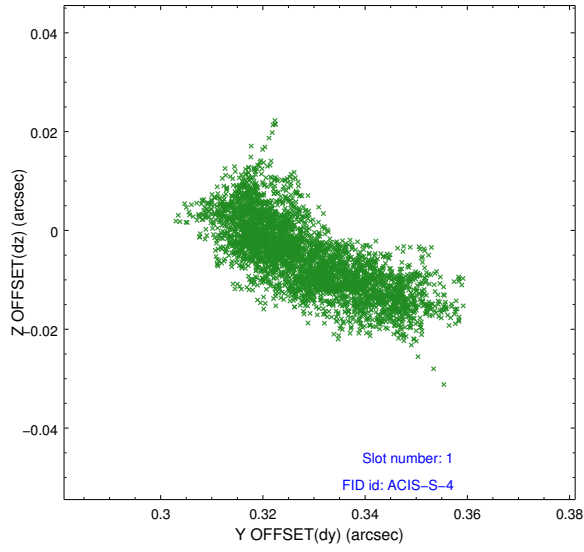


2.5 FID Slots

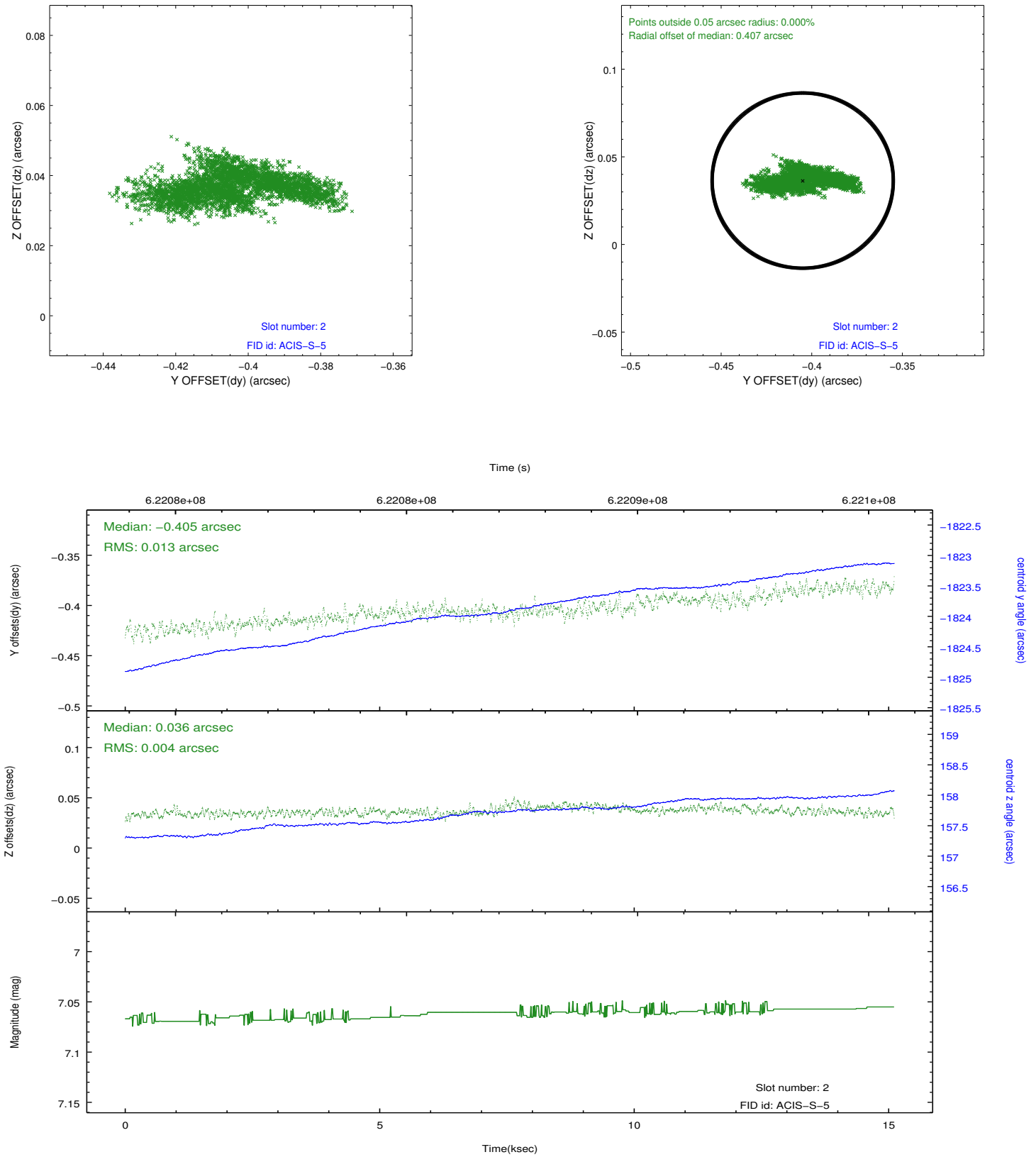
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.065744734406

A.2 Comments

Joint proposal with NRAO.
One optional chip was dropped.