

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17675 - L2 Version 1
Chandra X-Ray Center

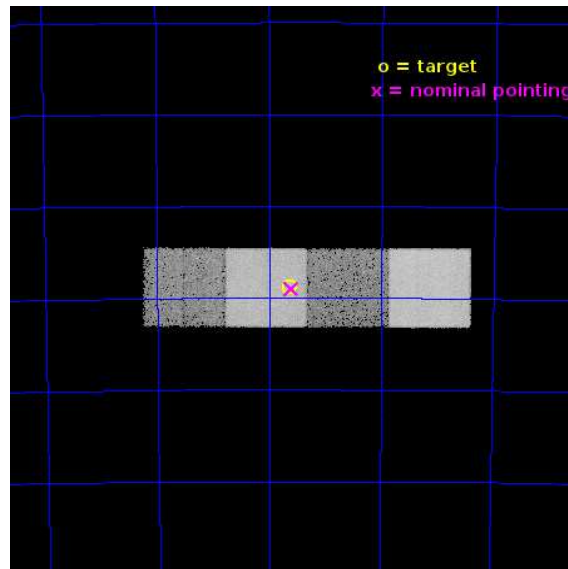
L2 Processing Date : Jun 19 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

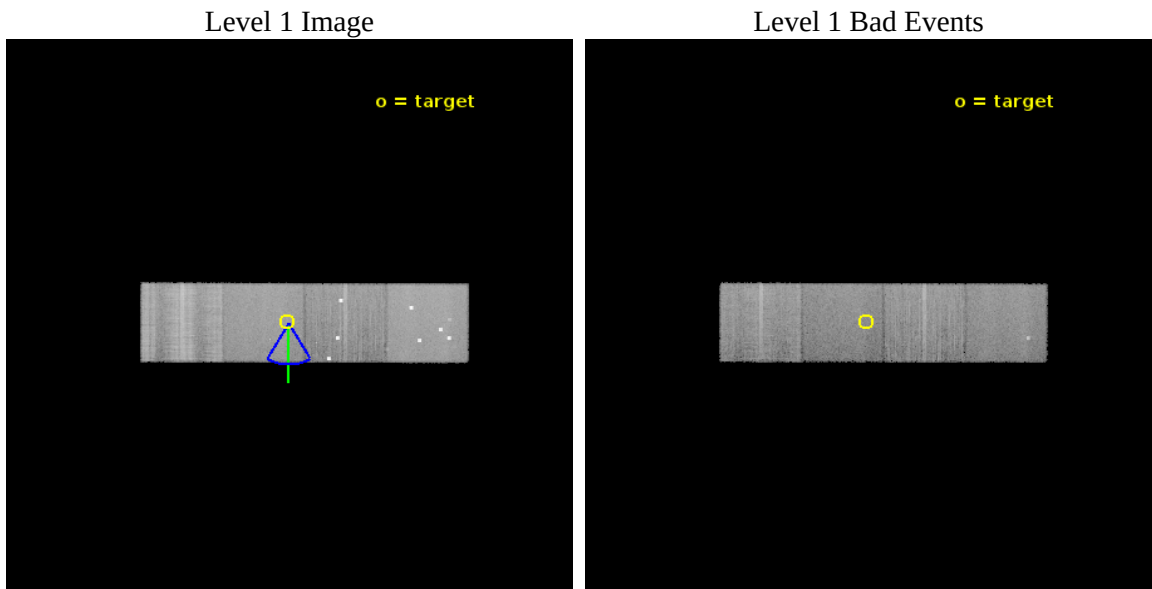
seq_num	502272	Sequence number
obs_id	17675	Observation id
title	The possible PWN candidate in the LMC SNR [HP99] 456	Proposal titl
observer	Dr Manami Sasaki	Principal investigator
object	[HP99] 456	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	85.412083	Observer's specified target RA [deg]
dec_targ	-66.98	Observer's specified target Dec [deg]
ra_nom	85.401253760819	Nominal RA [deg]
dec_nom	-66.98341967667	Nominal Dec [deg]
roll_nom	180.14664302413	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22664.100174427	Sum of GTIs [s]
livetime	22367.97702058	Livetime [s]
ontime5	22664.100174427	Sum of GTIs [s]
ontime6	22664.100174427	Sum of GTIs [s]
ontime7	22664.100174427	Sum of GTIs [s]
ontime8	22660.959164143	Sum of GTIs [s]
l2events	187852	Number of level 2 events



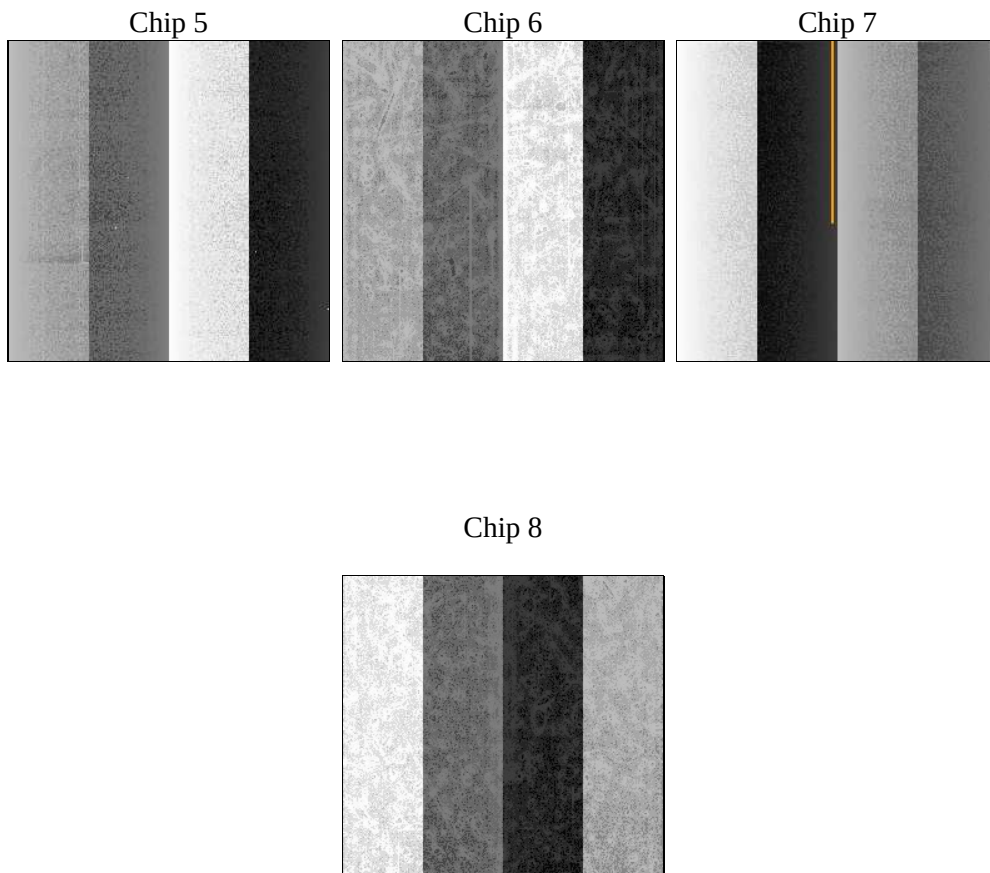
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22598.920000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	22664.100174427	Sum of GTIs [s]
caldsver	4.6.7	 	ontime5	22664.100174427	Sum of GTIs [s]
date	2015-06-19T16:02:27	Date and time of file creation	ontime6	22664.100174427	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	22664.100174427	Sum of GTIs [s]
			ontime8	22660.959164143	Sum of GTIs [s]
			l1events	758608	Number of level 1 events

2.1.4 Events

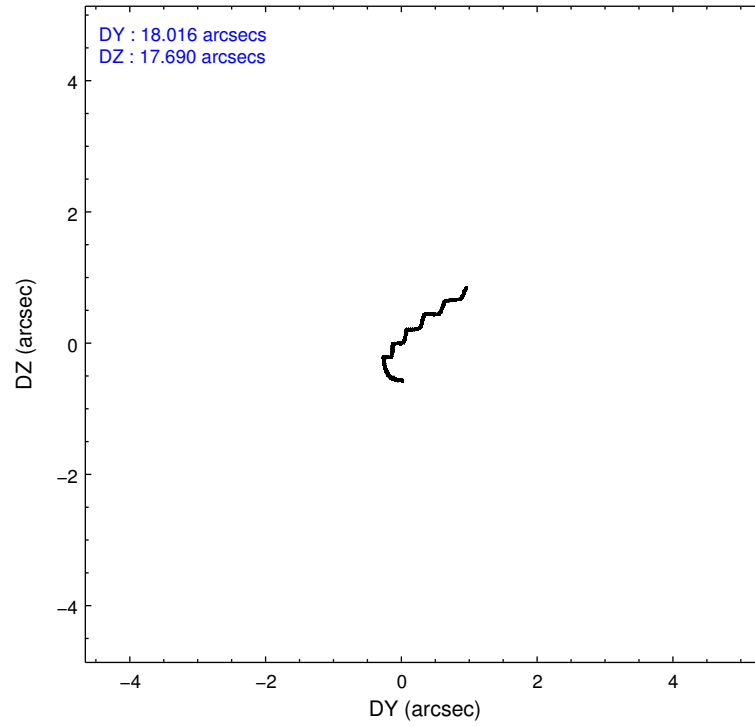
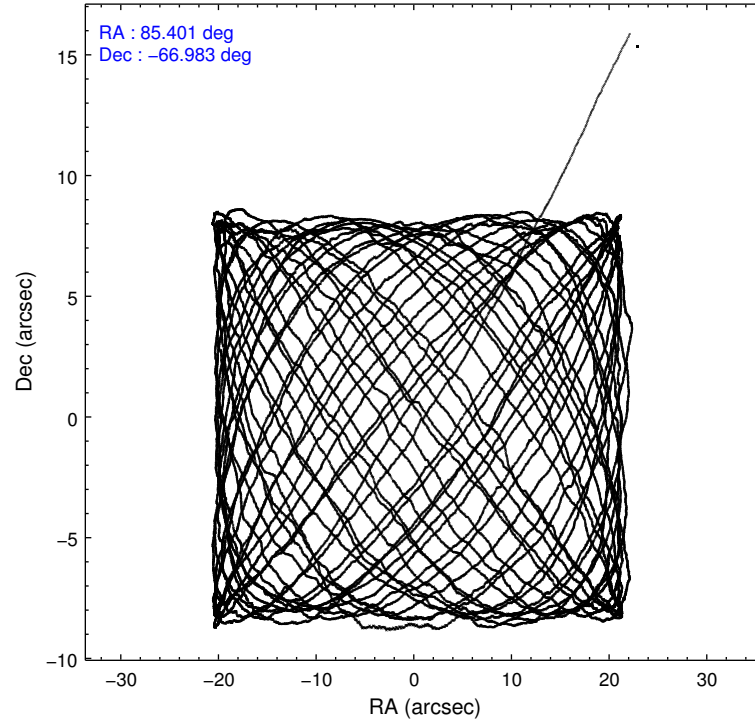
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	221356	152896	161666	222690
rejected events	104350	116129	90290	124742
rejected %	47%	75%	55%	56%

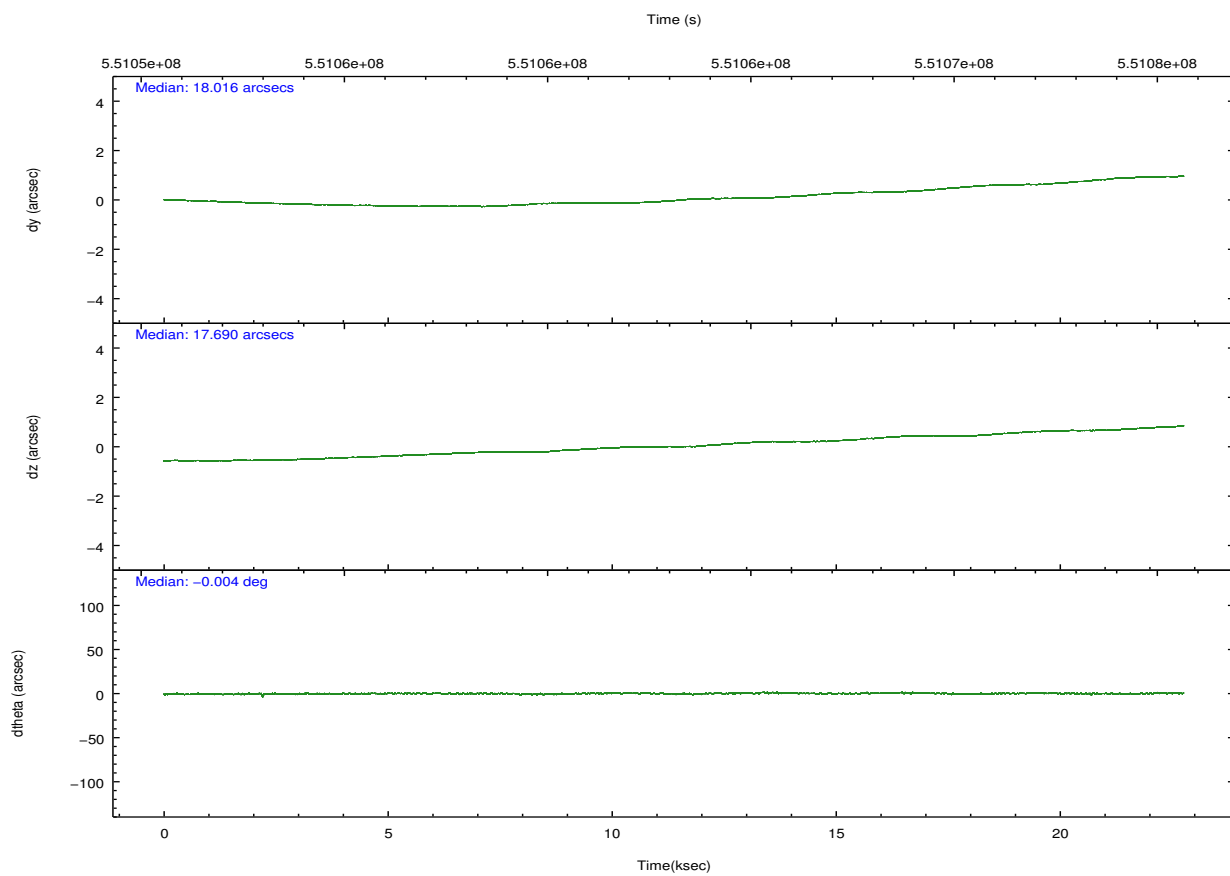
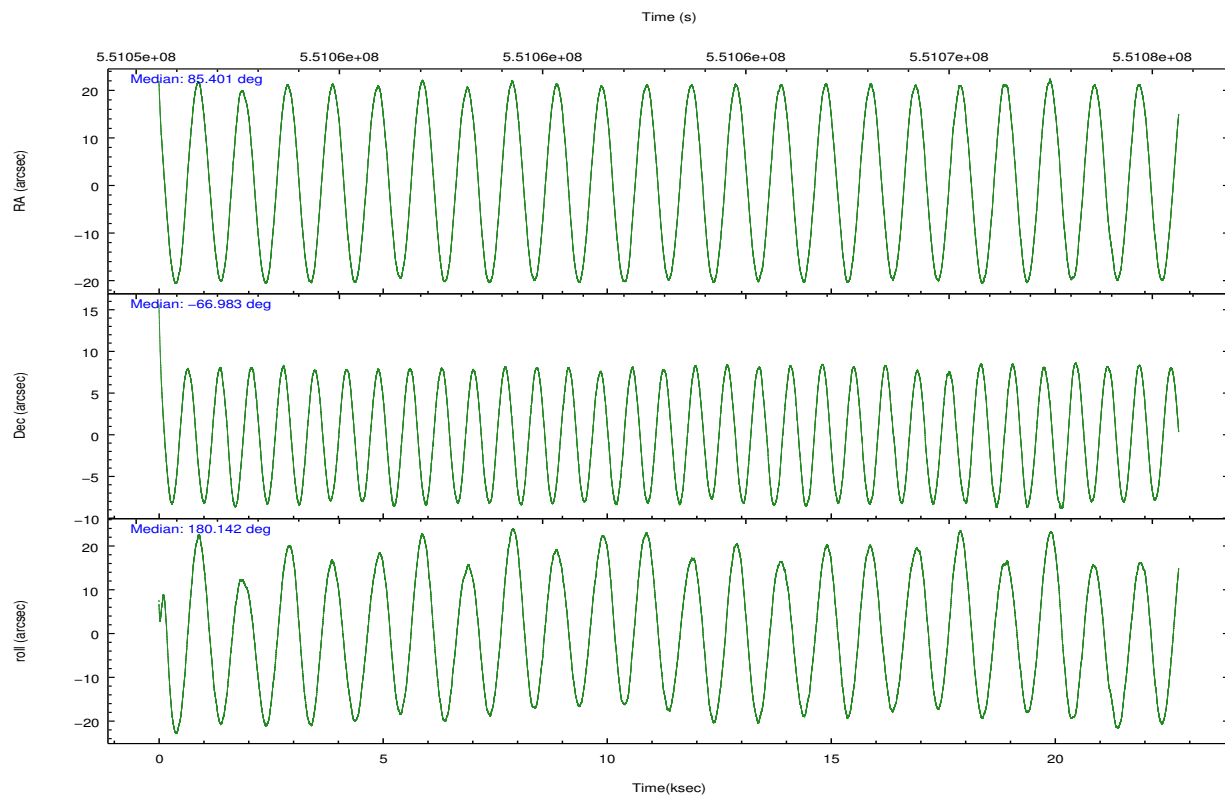
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	29406	19649	6542	31091
	13%	12%	4%	13%
grade 1 events	1427	126	201	255
	0%	0%	0%	0%
grade 2 events	30584	10833	15457	16371
	13%	7%	9%	7%
grade 3 events	3450	1435	5907	14970
	1%	0%	3%	6%
grade 4 events	3318	1446	5995	14044
	1%	0%	3%	6%
grade 5 events	14091	5923	16143	9485
	6%	3%	9%	4%
grade 6 events	50270	3413	37480	21473
	22%	2%	23%	9%
grade 7 events	88810	110071	73941	115001
	40%	71%	45%	51%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	85.461500	85.40125376081919	Subarray requested	NONE	NONE
[deg] Pointing Dec	-66.969326	-66.98341967667044	Alternating exposures requested	N	N
[deg] Pointing Roll	180.045478	180.1466430241256	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	180.000000	180.000000			
[deg] Roll tolerance	30.000000	30.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	551051867.184000	551050862.34389			
Observation start date	2015-06-18T21:56:40	2015-06-18T21:41:02			
[s] Observation end time (MET)	551074466.184000	551074692.05773			
Observation end date	2015-06-19T04:13:19	2015-06-19T04:18:12			
Read mode	TIMED	TIMED			

2.3 Aspect



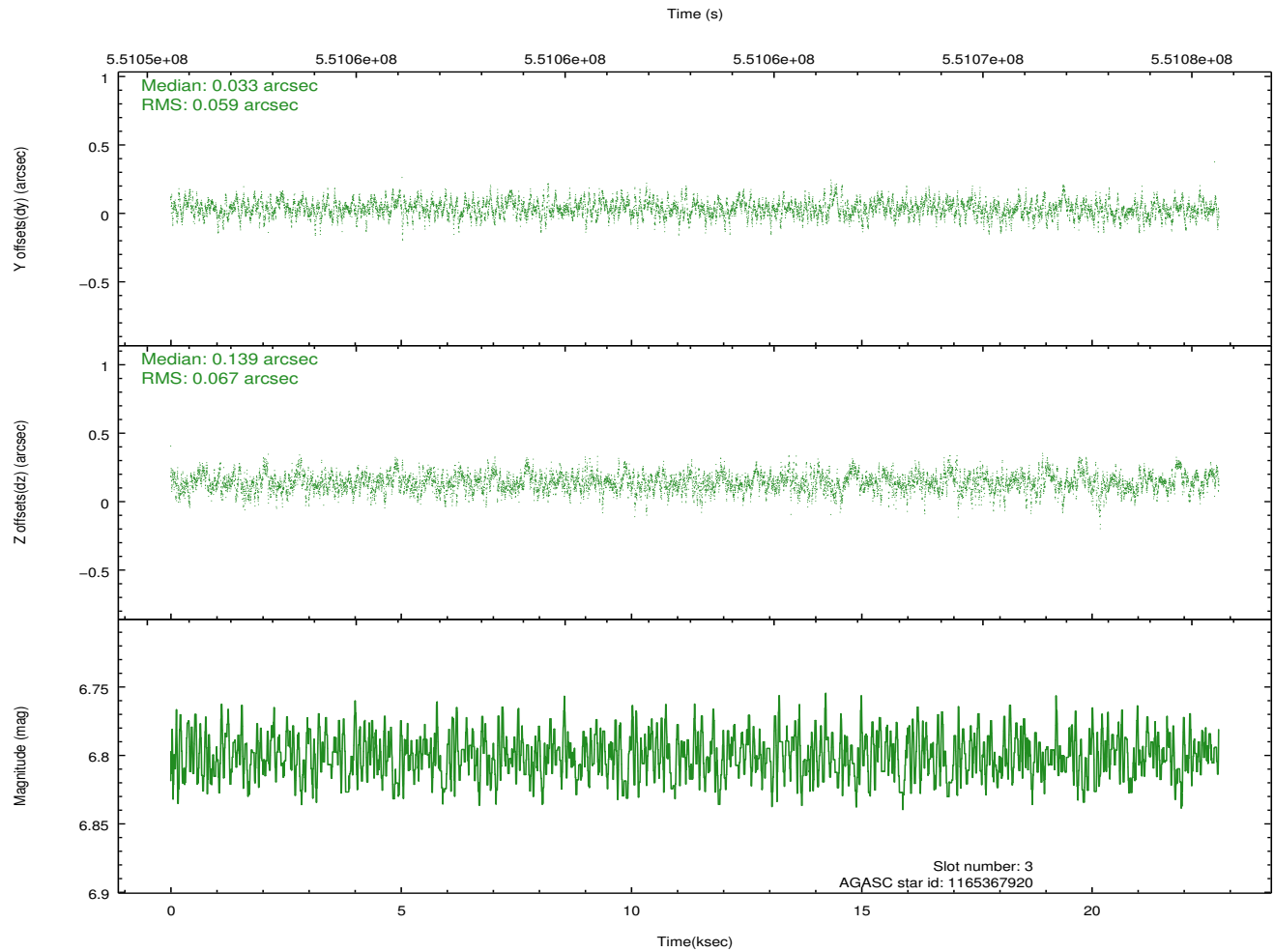
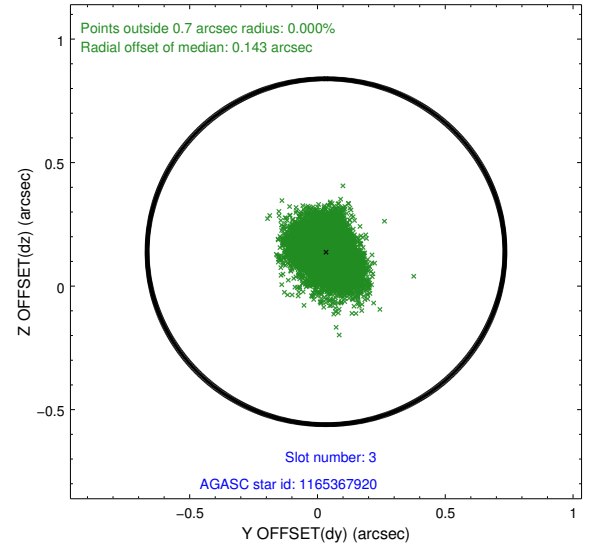
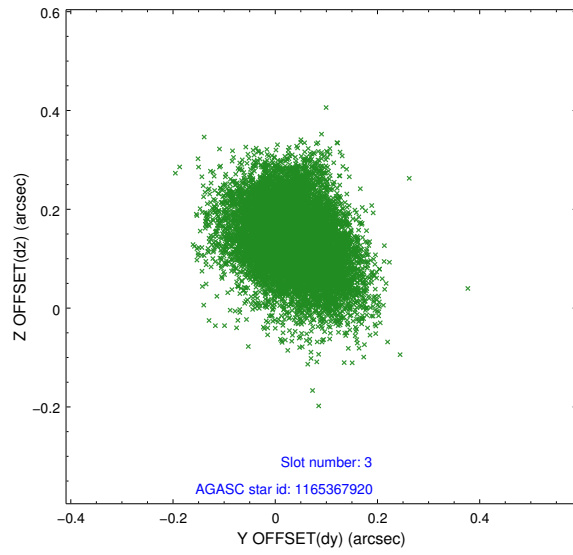


Slot Statistics

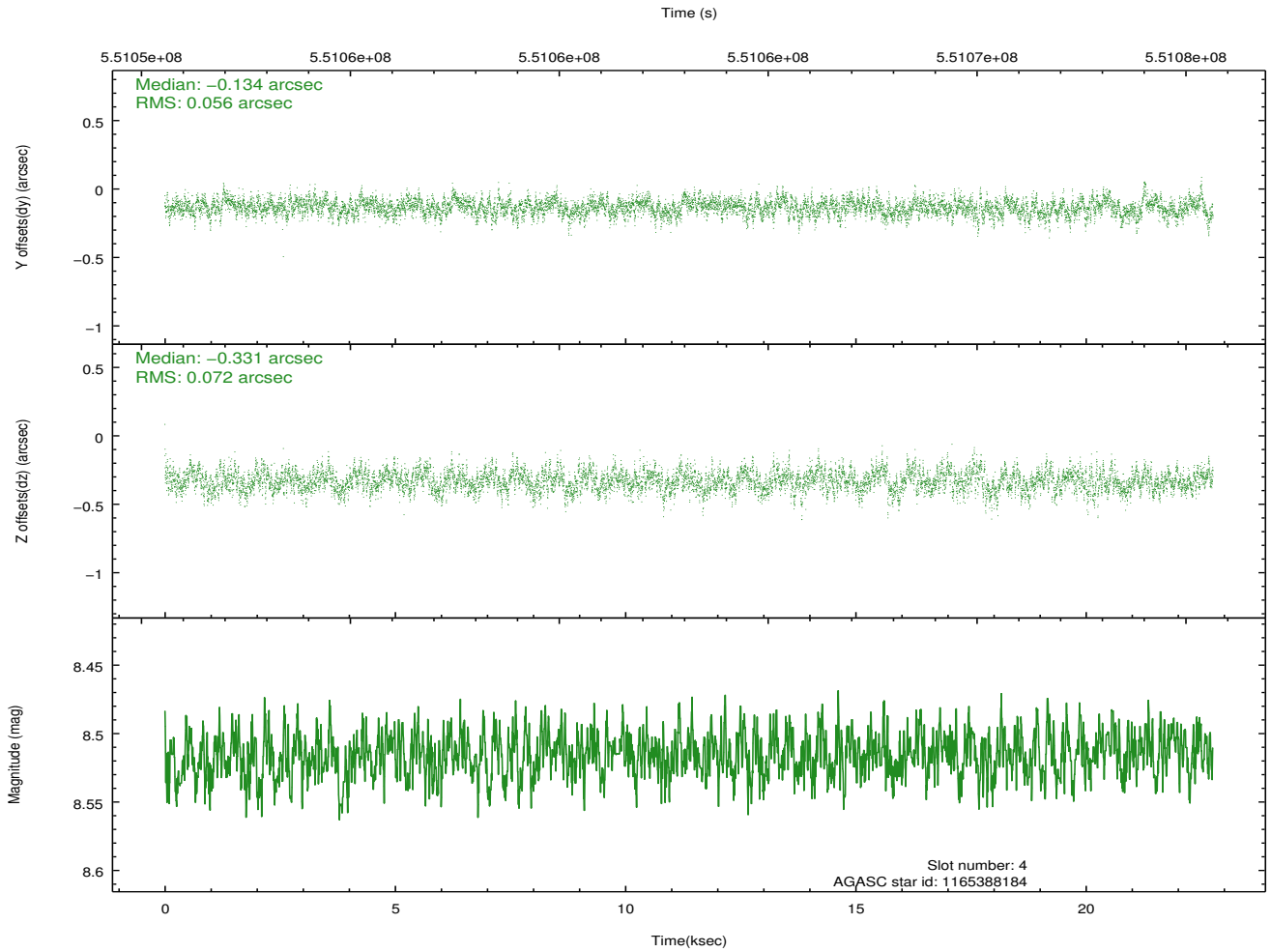
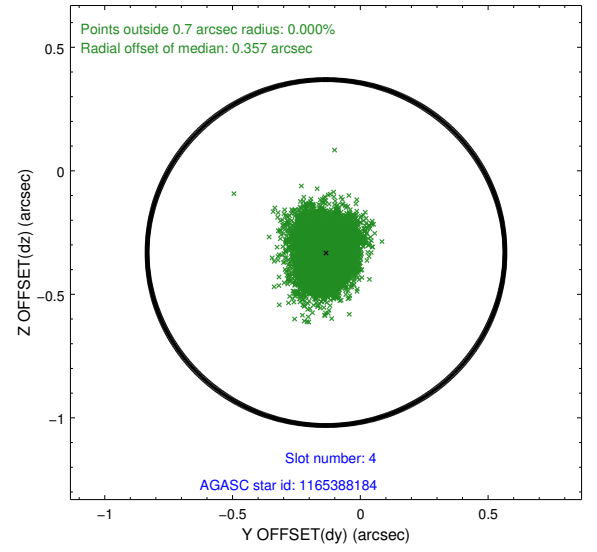
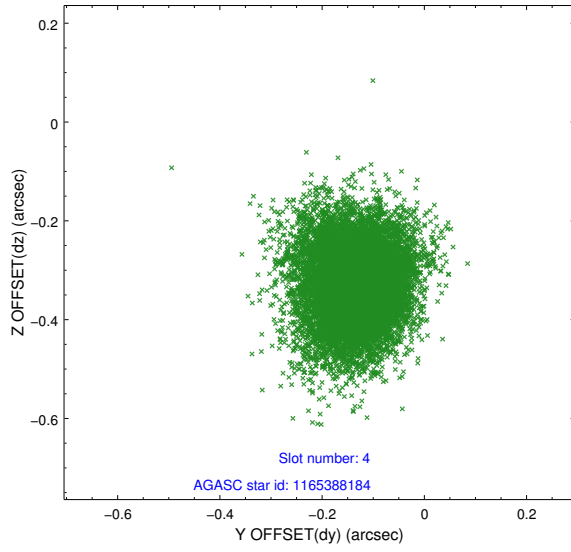
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	5551	-0.107	-0.097	0.019	0.030	0.000000	0.000000	-771.33	-1739.23
1	FID		ACIS-S-4	7.12	5551	0.348	0.077	0.016	0.032	0.000000	0.000000	2142.35	169.26
2	FID		ACIS-S-5	7.14	5550	-0.271	0.025	0.010	0.017	0.000000	0.000000	-1824.14	163.06
3	GUIDE	used	1165367920	6.80	11102	0.033	0.139	0.095	0.158	84.229085	-66.560284	1764.03	-1456.07
4	GUIDE	used	1165388184	8.52	11100	-0.134	-0.331	0.096	0.160	84.898446	-67.041721	790.90	263.75
5	GUIDE	used	1167076088	8.82	11098	0.225	0.385	0.142	0.218	86.804500	-66.699531	-1912.50	-948.55
6	GUIDE	used	1167077048	9.14	11096	-0.097	-0.200	0.127	0.211	86.693768	-67.426555	-1701.50	1663.22
7	GUIDE	used	1165375192	7.53	11101	-0.014	-0.003	0.103	0.174	84.093045	-66.290326	1979.20	-2423.63

2.4 Star Slots

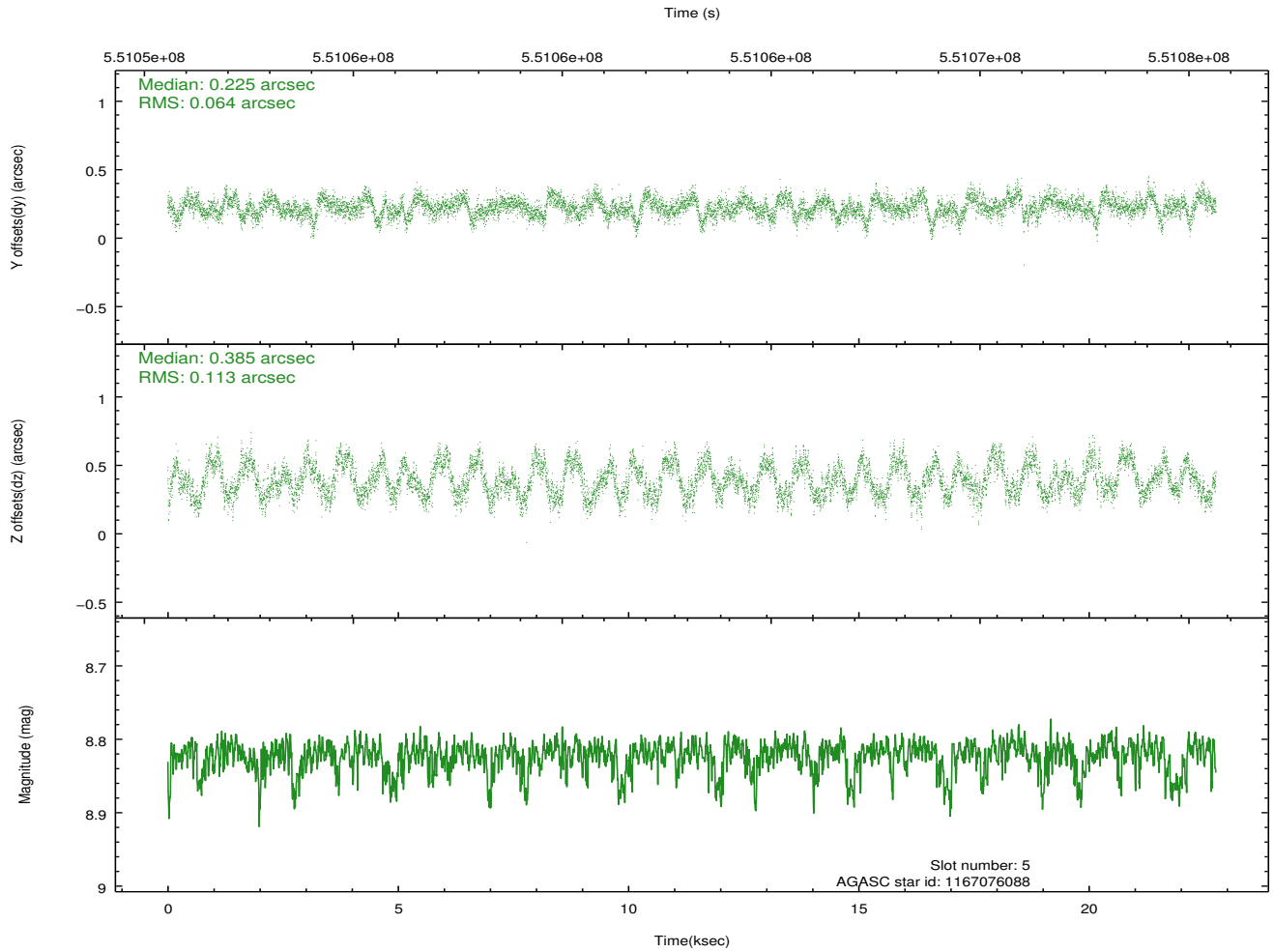
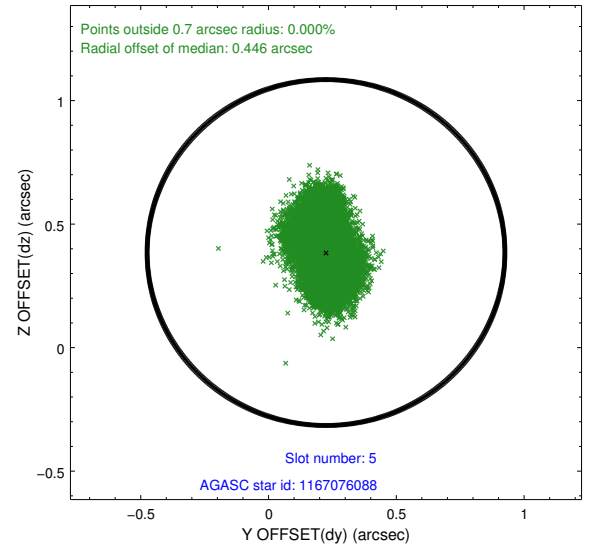
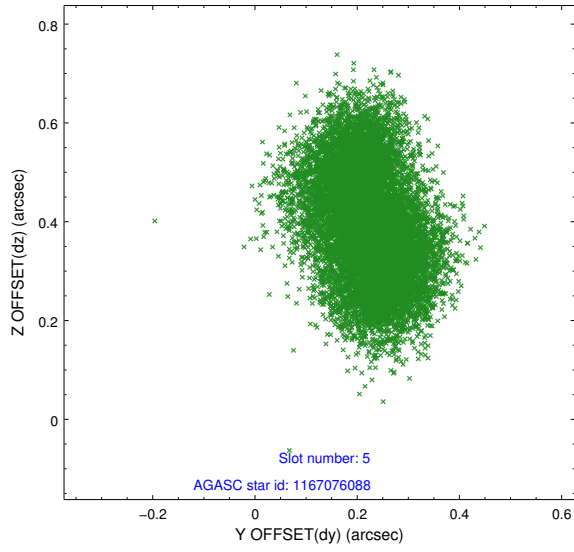
2.4.1 Slot 3



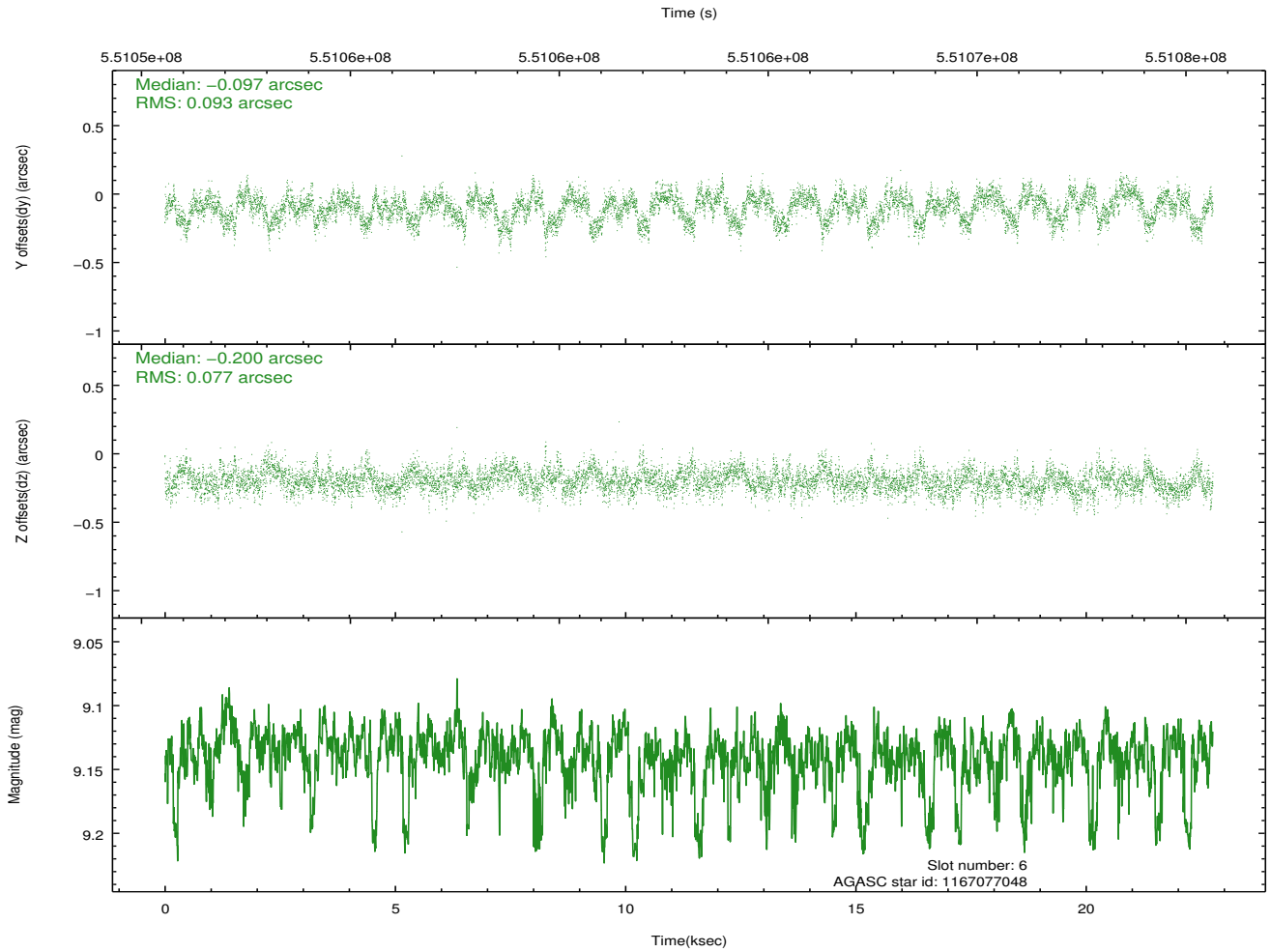
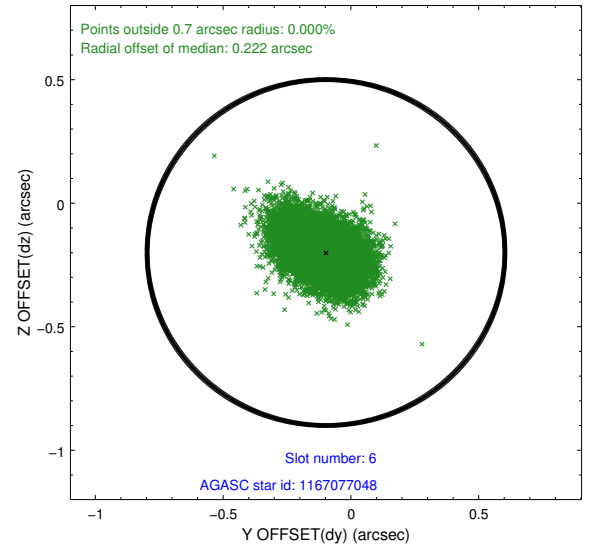
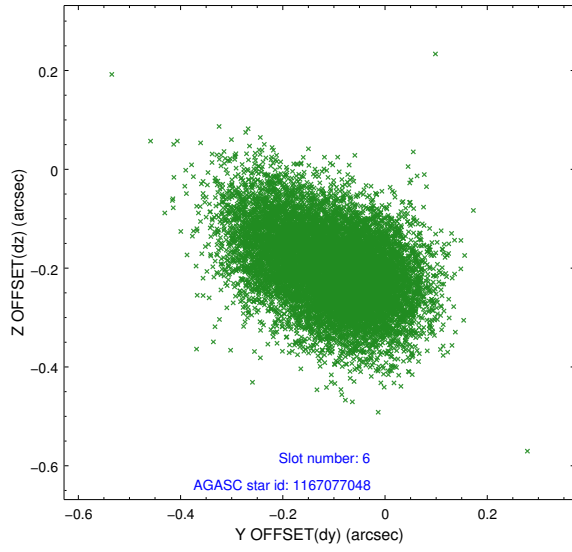
2.4.2 Slot 4



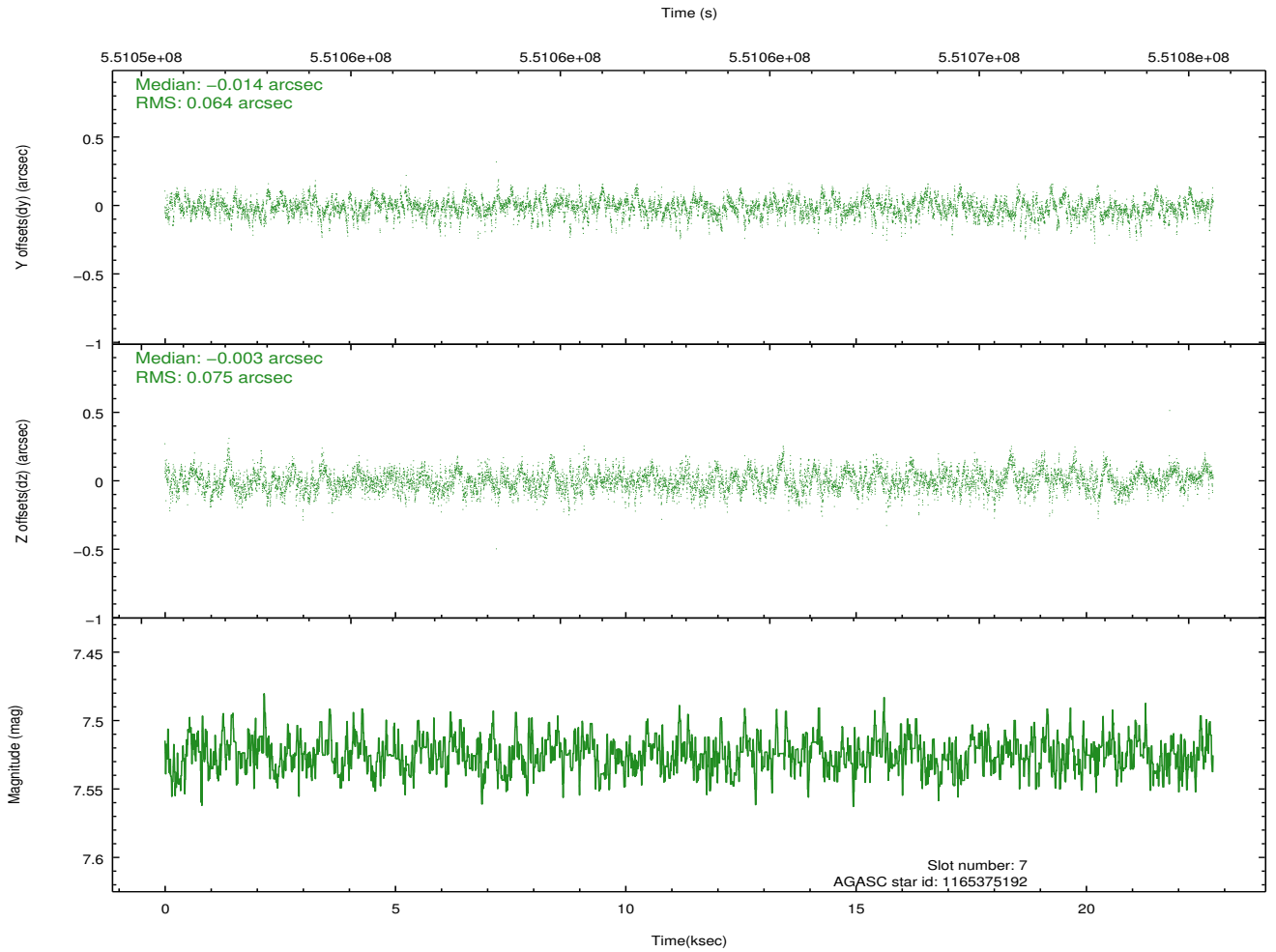
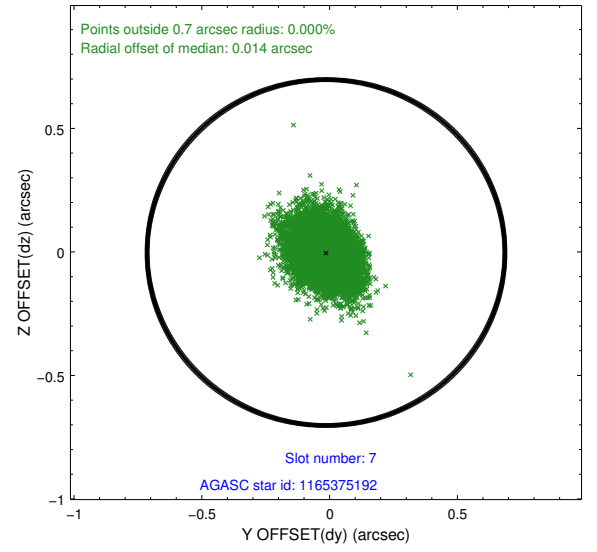
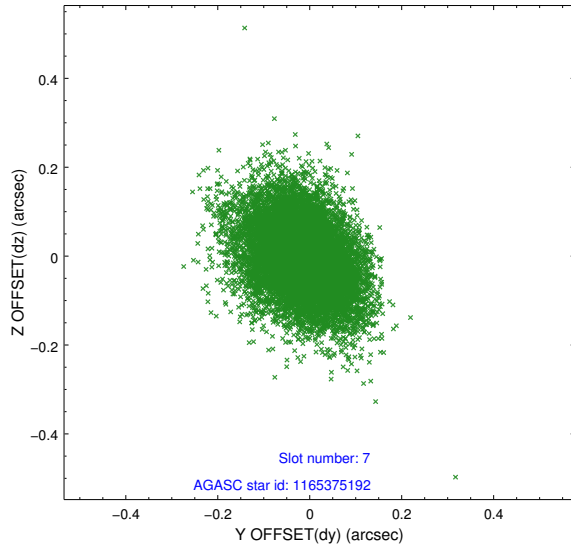
2.4.3 Slot 5



2.4.4 Slot 6

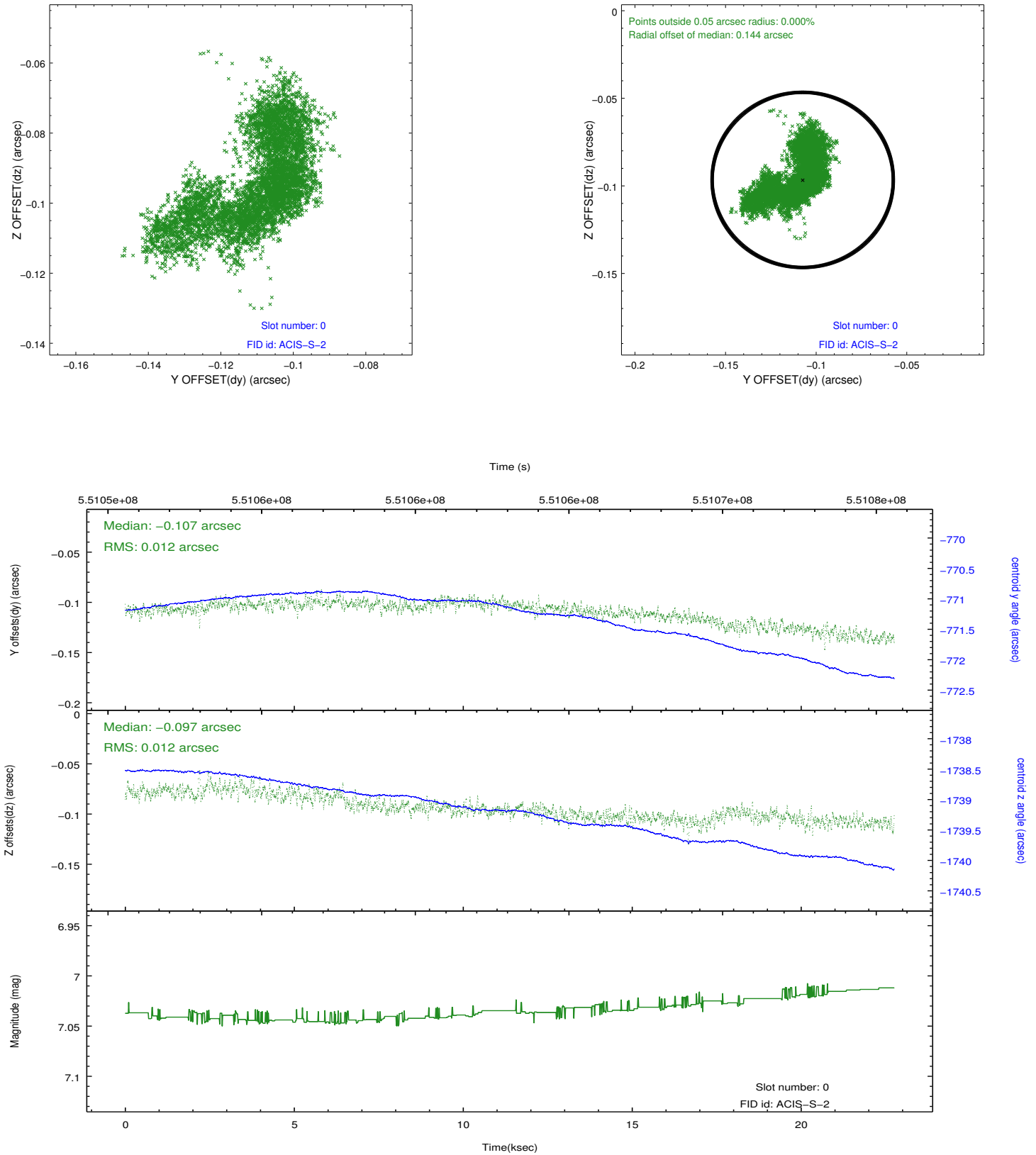


2.4.5 Slot 7

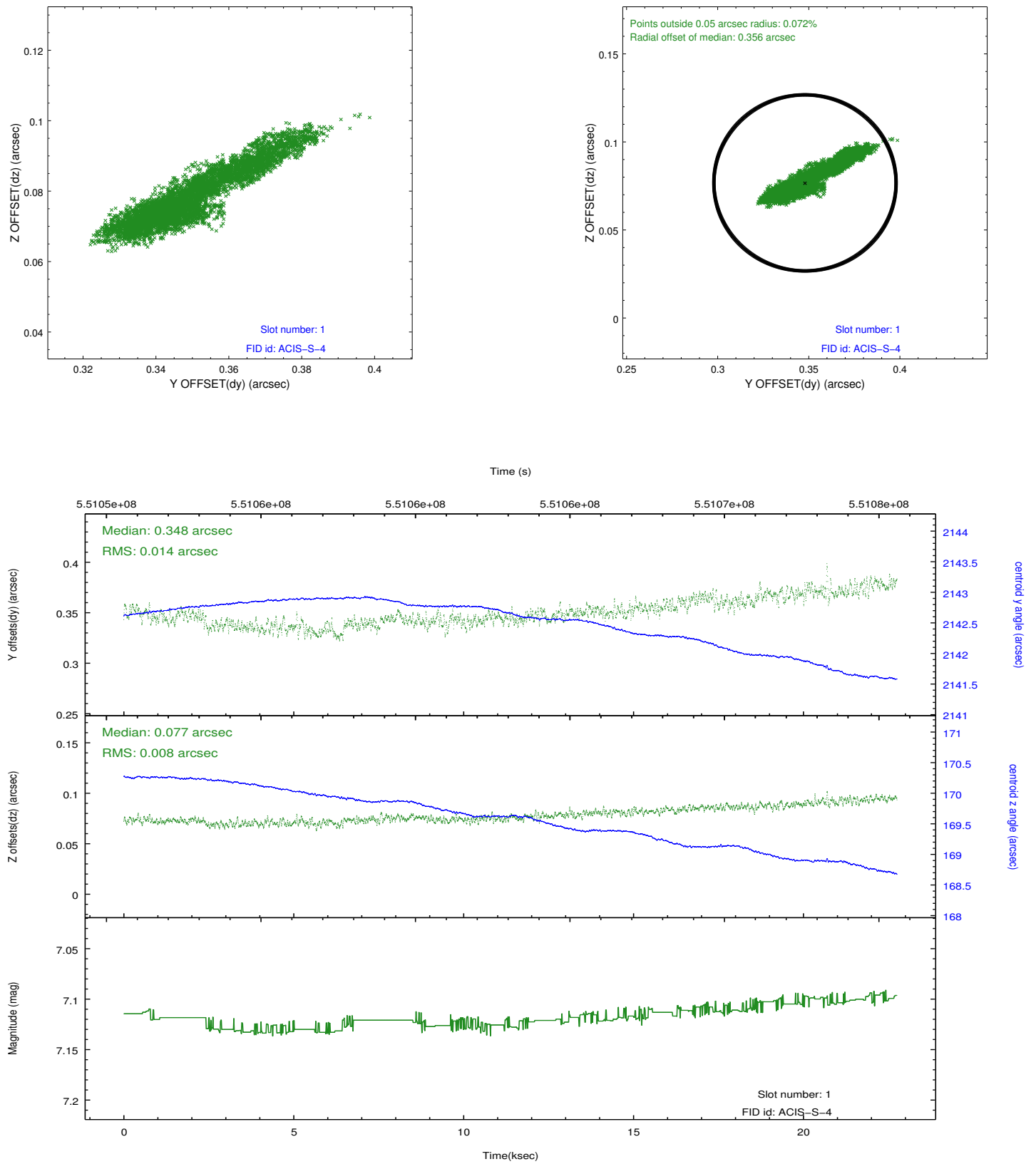


2.5 FID Slots

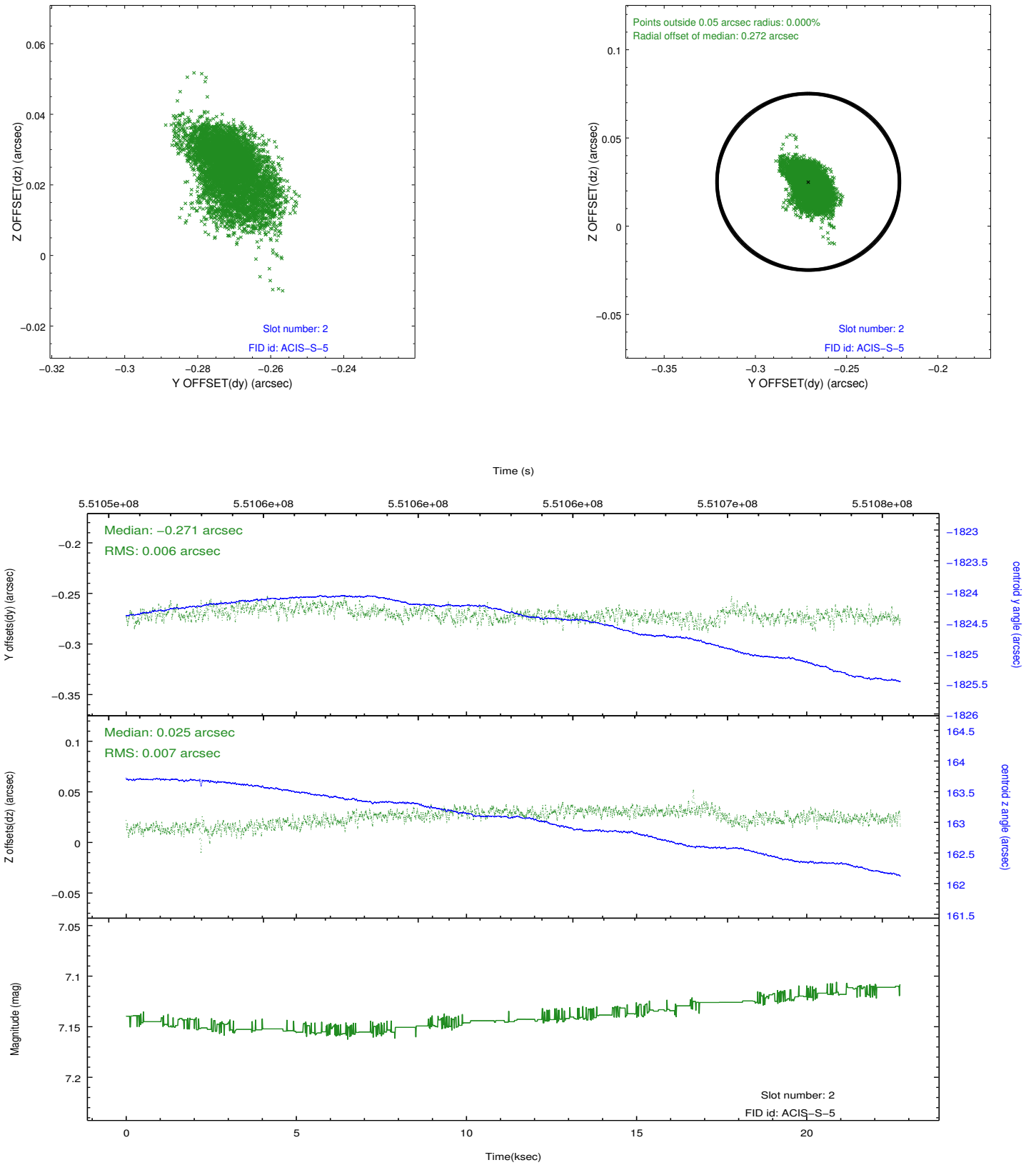
2.5.1 Slot 0



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)	2015.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.664100174427

A.2 Comments

Roll constraint met.