

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19770 - L2 Version 1
Chandra X-Ray Center

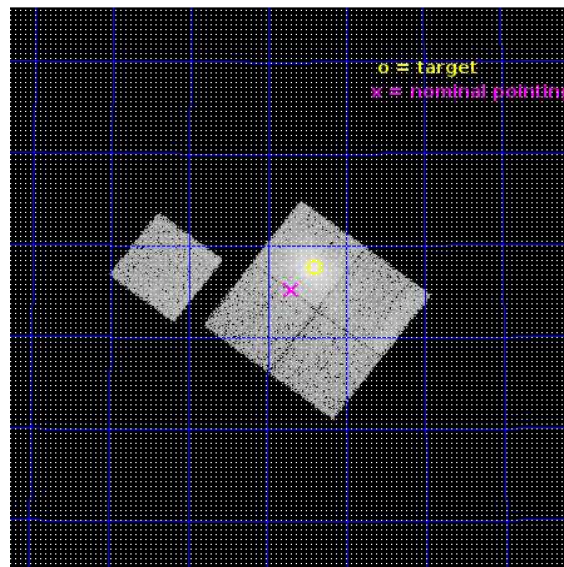
L2 Processing Date : Jul 27 2017

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

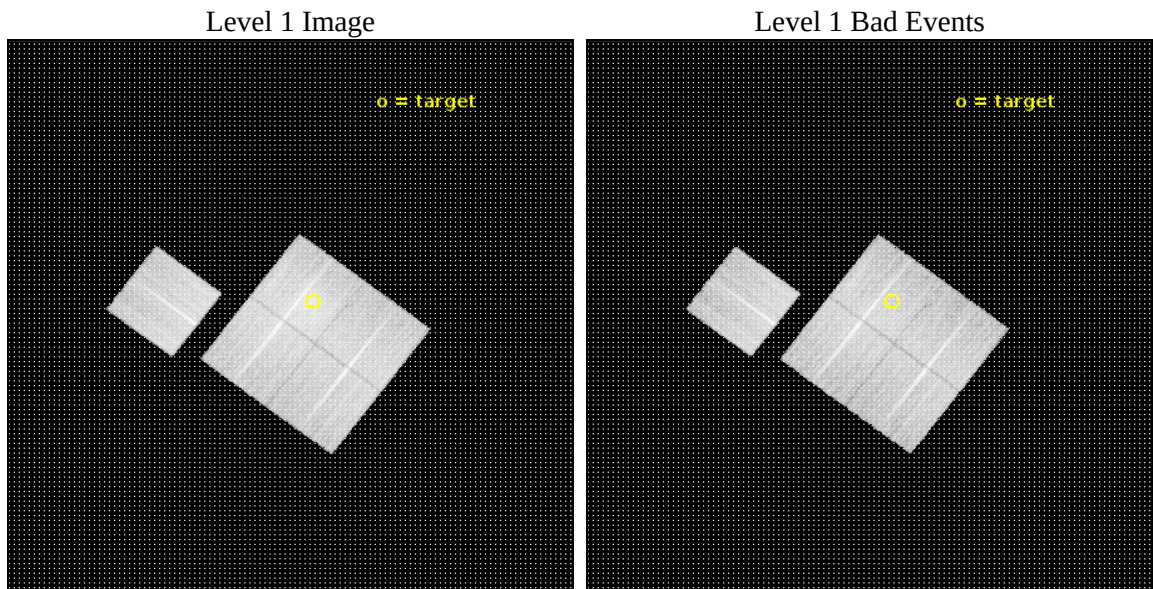
seq_num	801707	Sequence number
obs_id	19770	Observation id
title	Probing the Planck Cluster Sample	Proposal title
observer	Ralph Kraft	Principal investigator
object	A1132_G149.21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	164.600417	Observer's specified target RA [deg]
dec_targ	56.794444	Observer's specified target Dec [deg]
ra_nom	164.6744100122	Nominal RA [deg]
dec_nom	56.753468083337	Nominal Dec [deg]
roll_nom	307.10579378427	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20068.347579479	Sum of GTIs [s]
livetime	19806.139844251	Livetime [s]
ontime0	20061.942528963	Sum of GTIs [s]
ontime1	20061.983519197	Sum of GTIs [s]
ontime2	20065.165569305	Sum of GTIs [s]
ontime3	20068.347579479	Sum of GTIs [s]
ontime6	20068.183419466	Sum of GTIs [s]
l2events	86389	Number of level 2 events



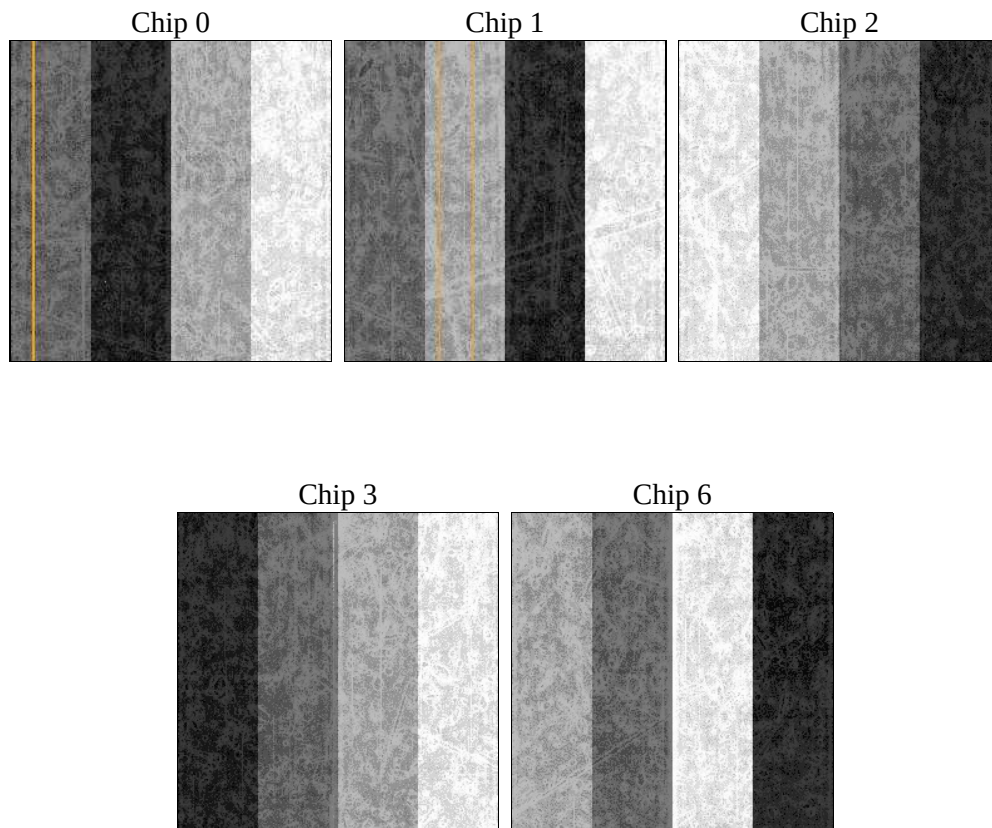
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20068.347579479	Sum of GTIs [s]
caldbver	4.7.5	 	ontime0	20061.942528963	Sum of GTIs [s]
date	2017-07-27T13:39:41	Date and time of file creation	ontime1	20061.983519197	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20065.165569305	Sum of GTIs [s]
			ontime3	20068.347579479	Sum of GTIs [s]
			ontime6	20068.183419466	Sum of GTIs [s]
			l1events	681695	Number of level 1 events

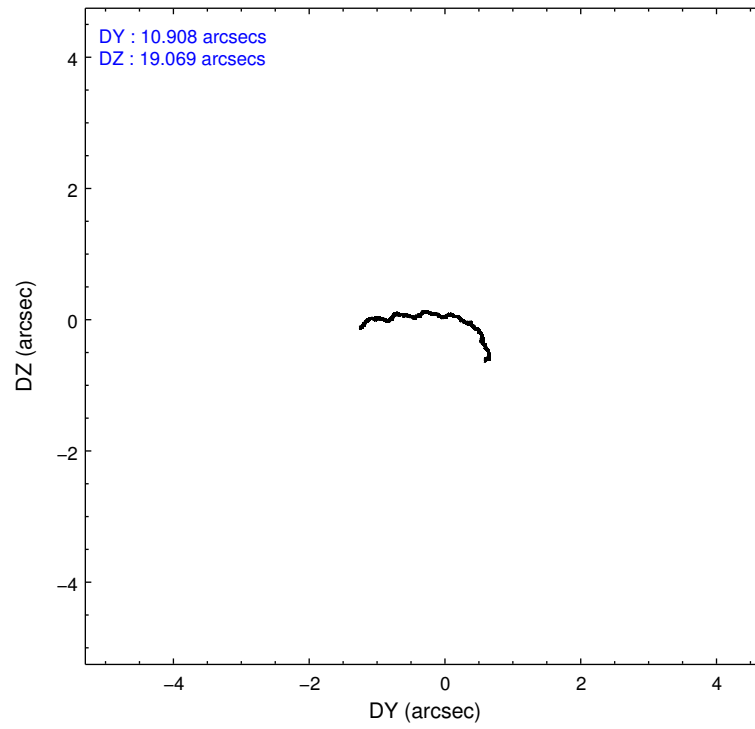
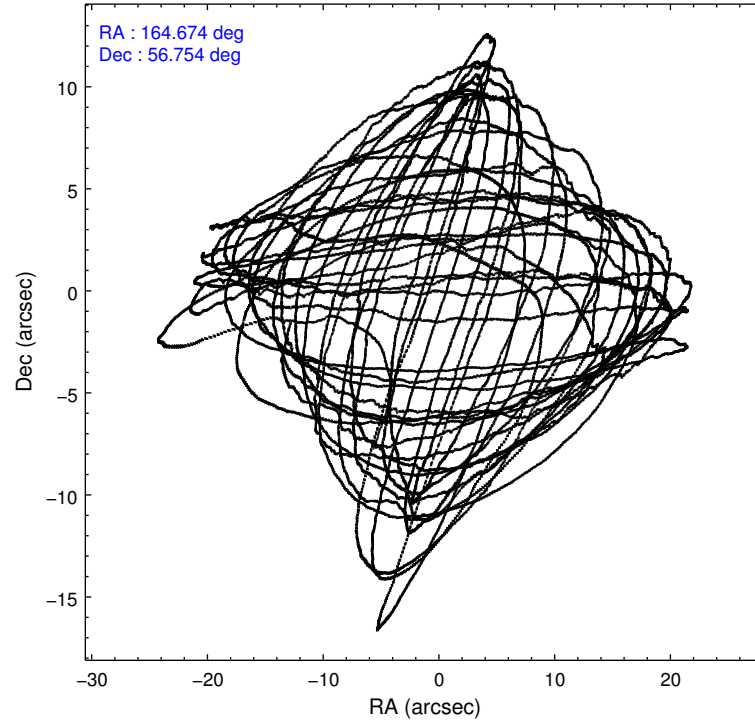
2.1.4 Events

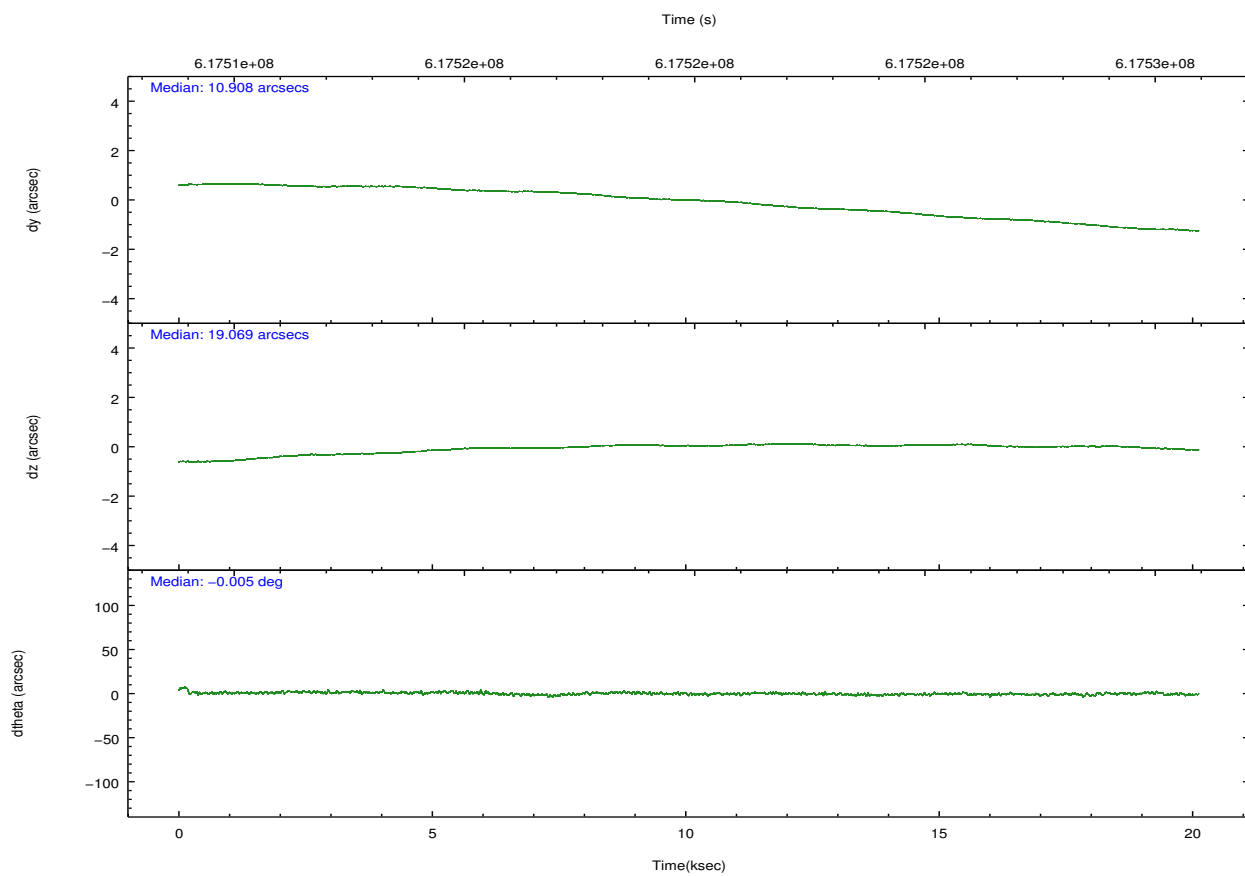
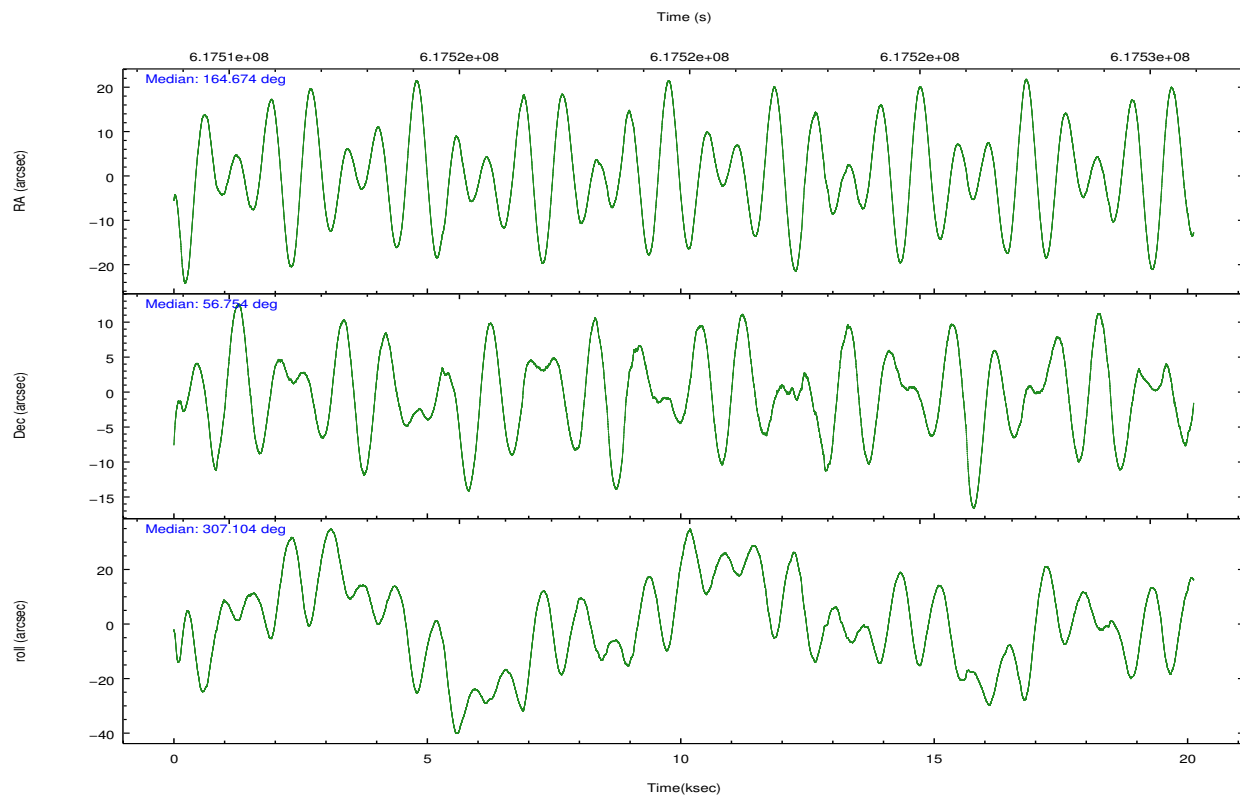
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	124397	129500	135502	155424	136872	grade 0 events	5442	7062	6395	19924	5249
rejected events	108641	110763	119095	122356	121127		4%	5%	4%	12%	3%
rejected %	87%	85%	87%	78%	88%	grade 1 events	66	87	99	142	61
							0%	0%	0%	0%	0%
						grade 2 events	3955	4600	3908	5179	3623
							3%	3%	2%	3%	2%
						grade 3 events	1612	1704	1484	2078	1641
							1%	1%	1%	1%	1%
						grade 4 events	1481	1674	1630	2139	1570
							1%	1%	1%	1%	1%
						grade 5 events	5955	6310	5703	6732	6396
							4%	4%	4%	4%	4%
						grade 6 events	3274	3701	2996	3758	3670
							2%	2%	2%	2%	2%
						grade 7 events	102612	104362	113287	115472	114662
							82%	80%	83%	74%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	164.627980	164.6744100122	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.764118	56.75346808333708	Alternating exposures requested	N	N
[deg] Pointing Roll	306.935941	307.1057937842738	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.842463	-225.8433433320239			
[mm] SIM translation stage offset	-7.75	-7.749109670905796			
[s] Observation start time (MET)	617509918.184000	617508875.4152499			
Observation start date	2017-07-27T02:30:49	2017-07-27T02:14:35			
[s] Observation end time (MET)	617529918.184000	617531031.81654			
Observation end date	2017-07-27T08:04:09	2017-07-27T08:23:51			
Read mode	TIMED	TIMED			

2.3 Aspect



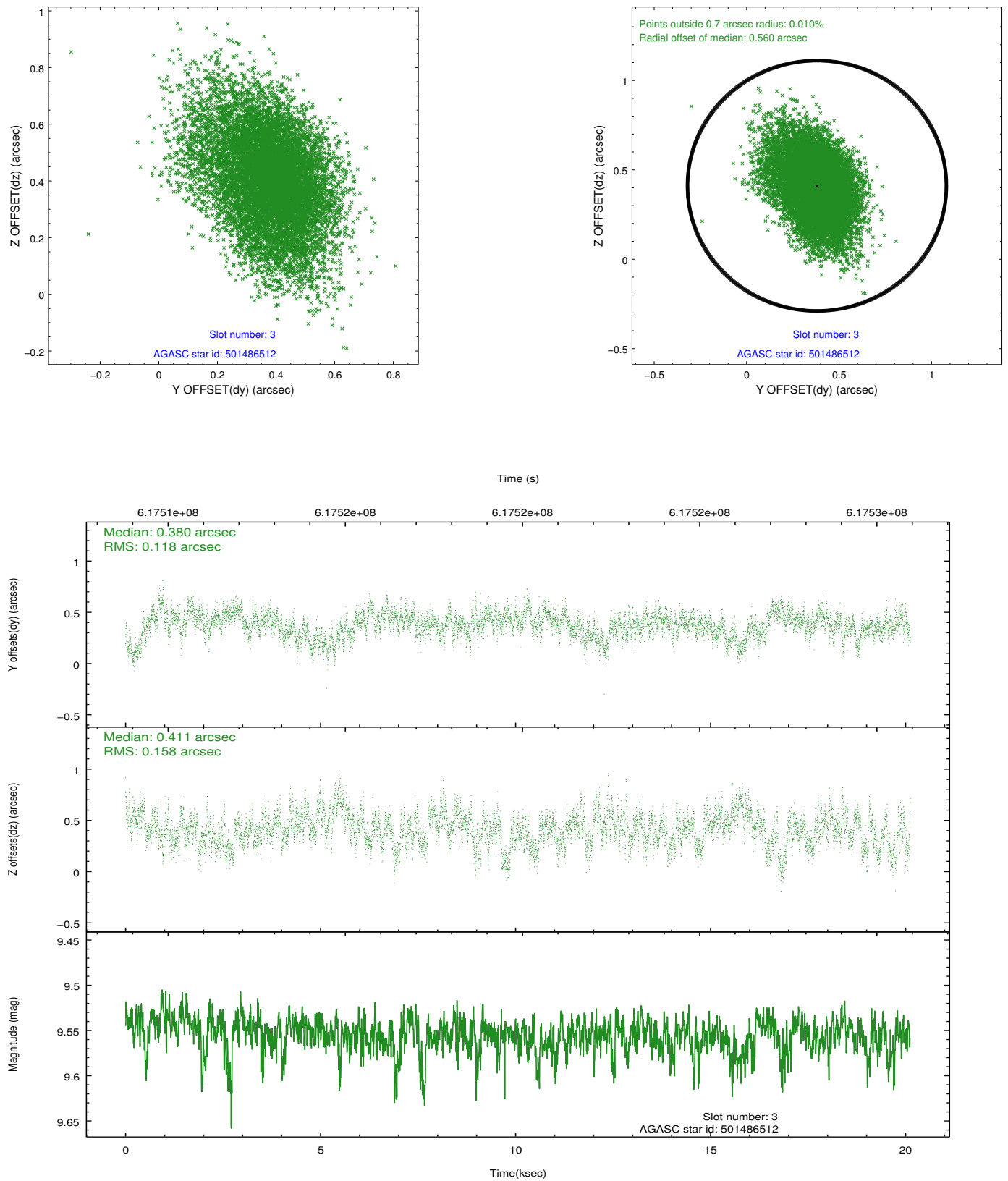


Slot Statistics

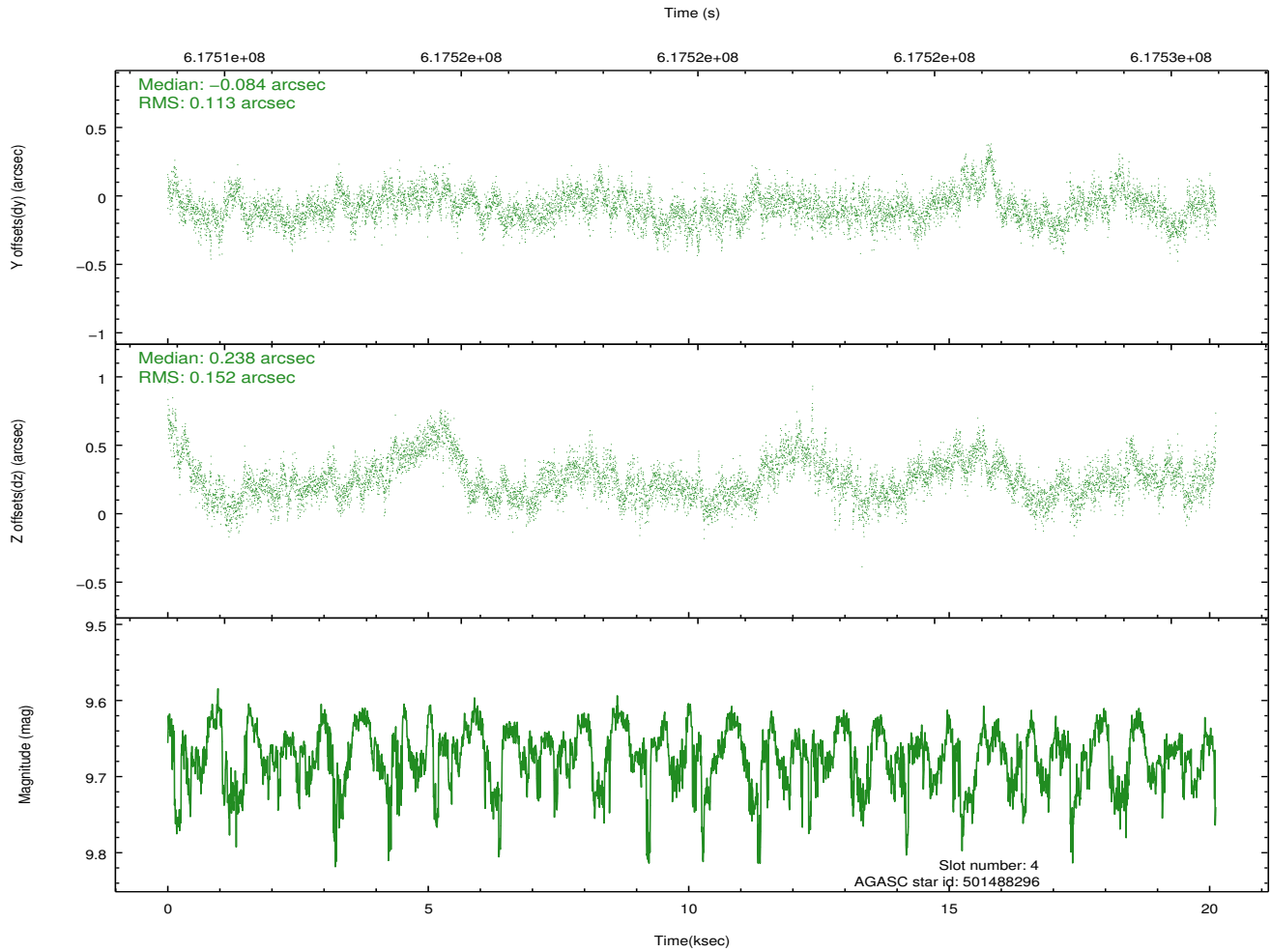
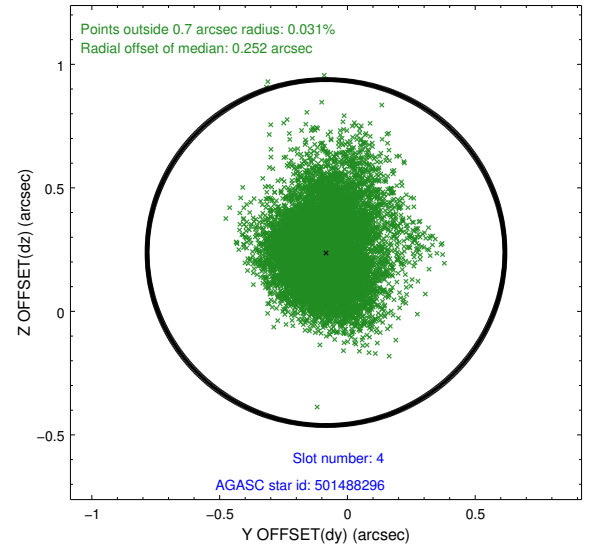
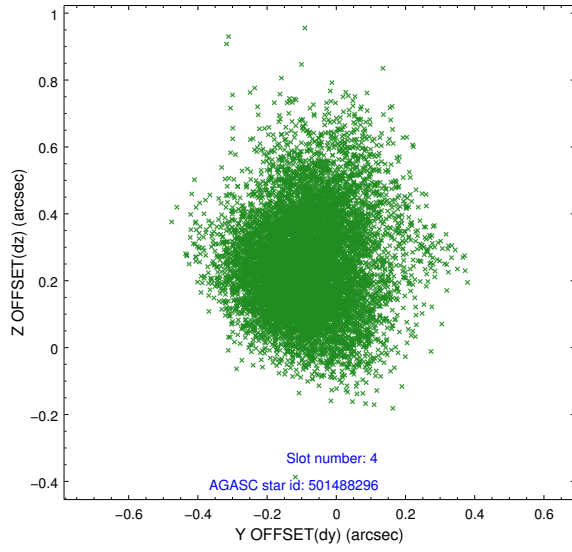
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	4908	0.125	-0.111	0.011	0.019	0.000000	0.000000	928.82	-1001.83
1	FID		ACIS-I-2	7.05	4906	-0.370	-0.042	0.022	0.031	0.000000	0.000000	-766.07	-1007.40
2	FID		ACIS-I-4	7.03	4908	0.144	0.219	0.017	0.032	0.000000	0.000000	2148.09	899.22
3	GUIDE	used	501486512	9.55	9803	0.380	0.411	0.208	0.350	163.579075	56.729186	-1156.17	-1722.07
4	GUIDE	used	501488296	9.67	9800	-0.084	0.238	0.197	0.338	164.354320	57.421227	-2210.75	997.60
5	GUIDE	used	501618176	9.26	9803	-0.283	-0.152	0.178	0.315	165.848262	56.648427	1765.79	1692.75
6	GUIDE	used	501618520	7.52	9815	-0.421	-0.381	0.100	0.189	165.086776	56.452025	1444.44	56.54
7	GUIDE	used	501485152	8.57	9812	0.413	-0.111	0.223	0.389	164.438686	55.839977	2430.14	-2304.45

2.4 Star Slots

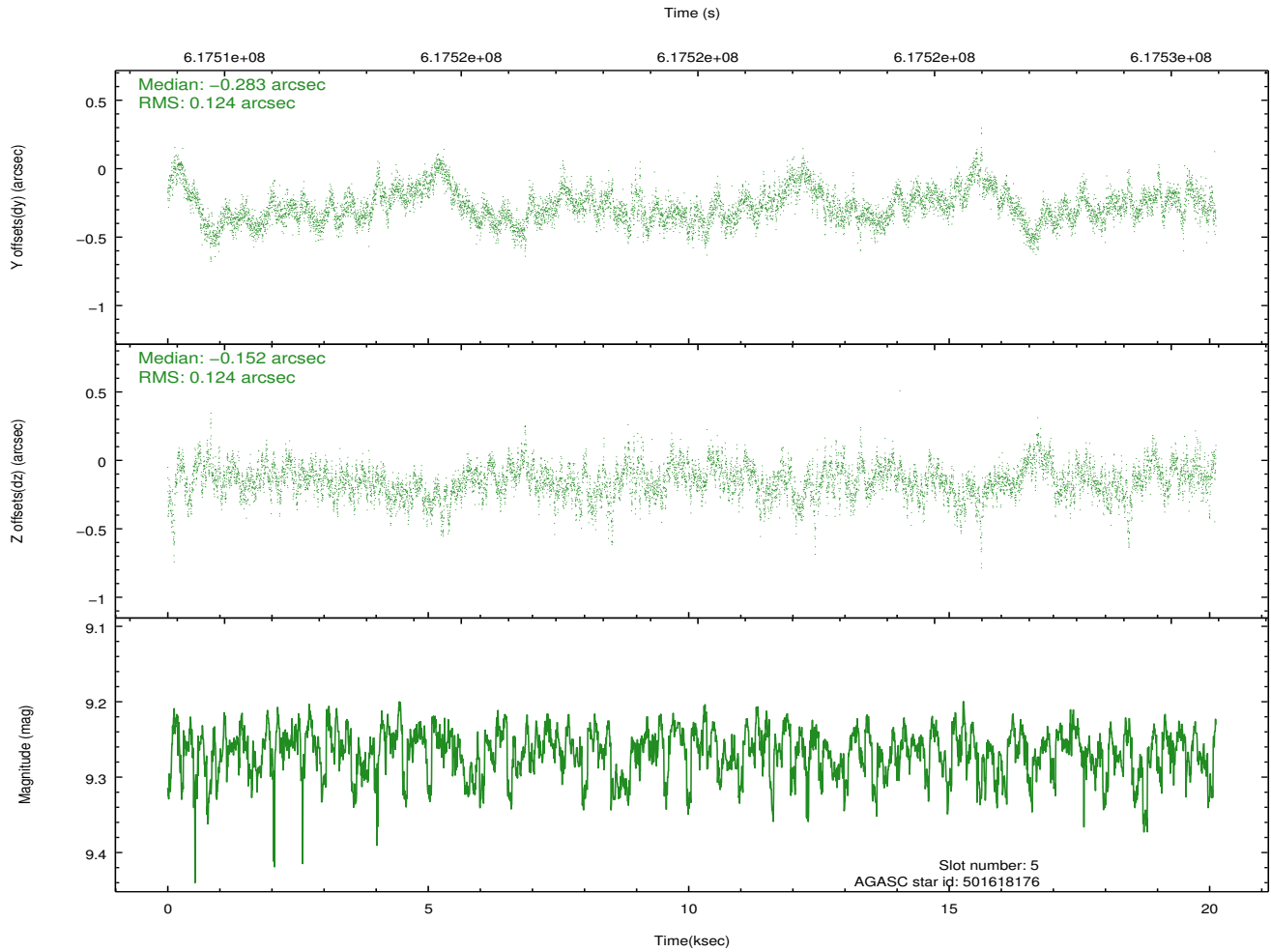
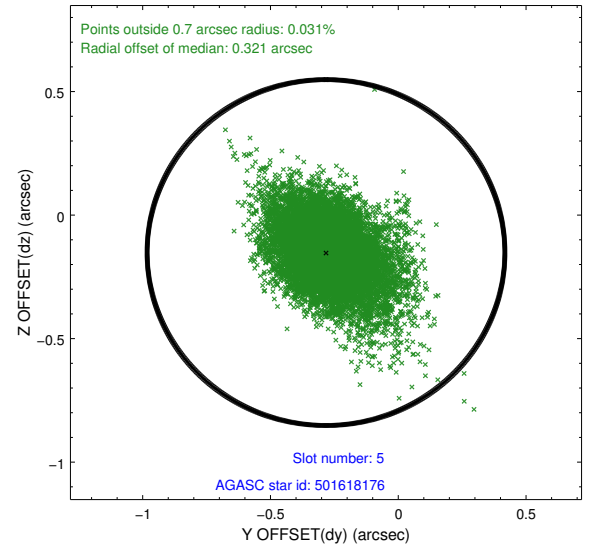
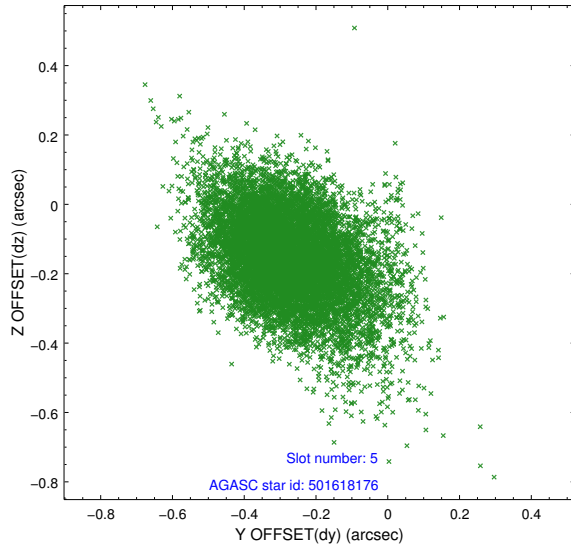
2.4.1 Slot 3



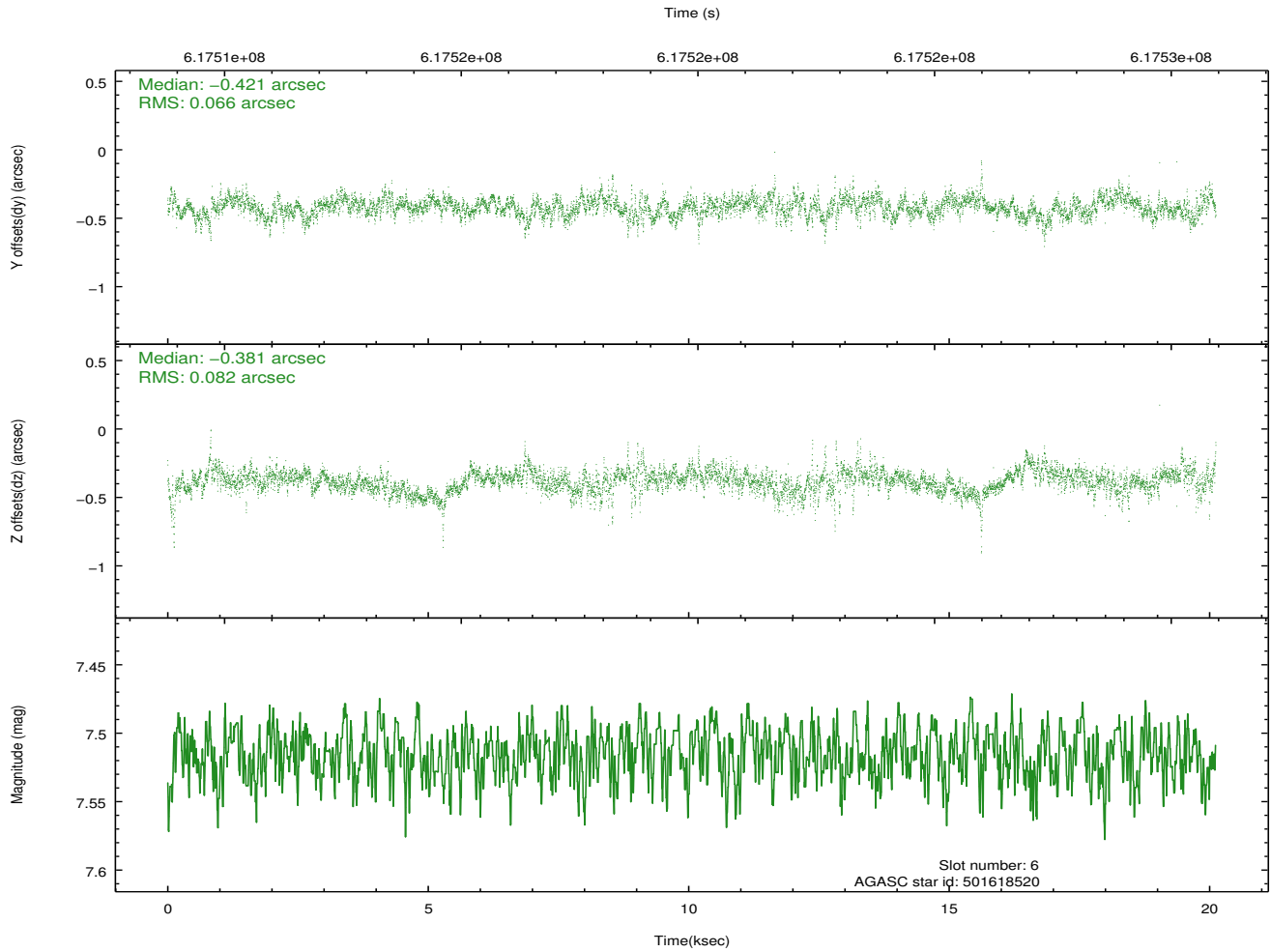
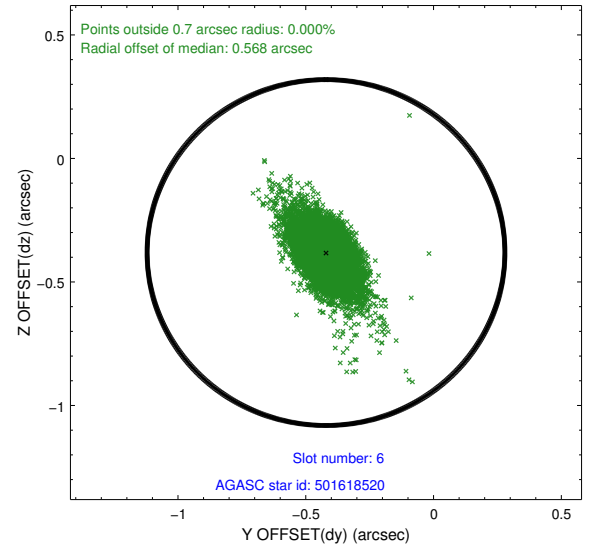
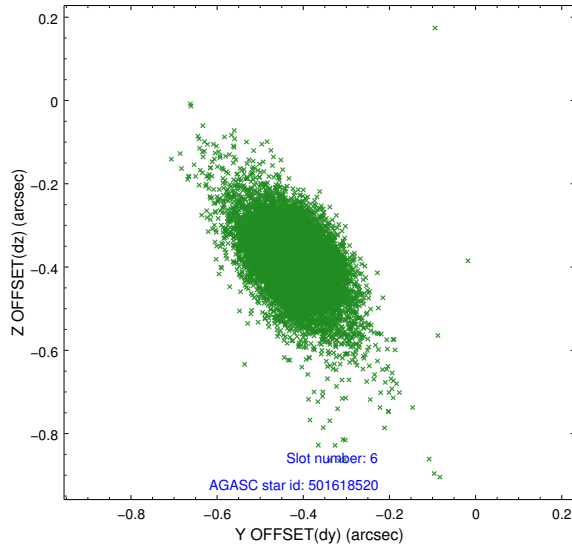
2.4.2 Slot 4



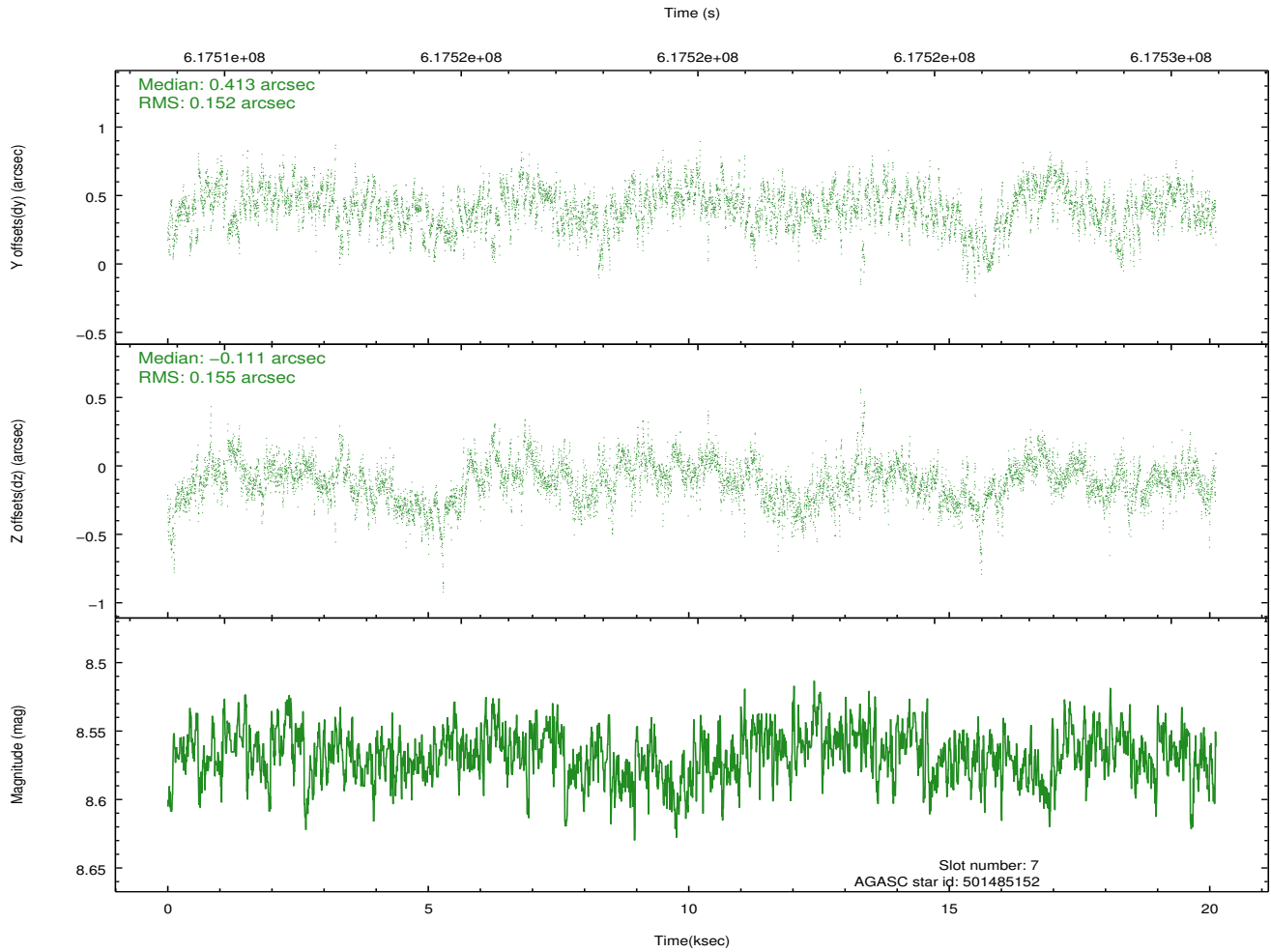
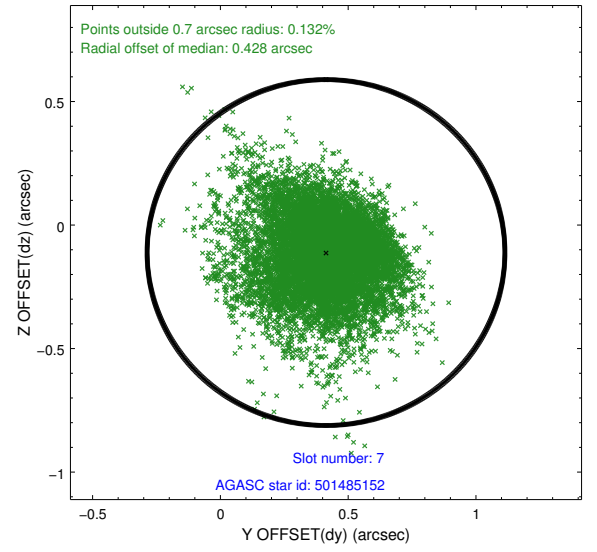
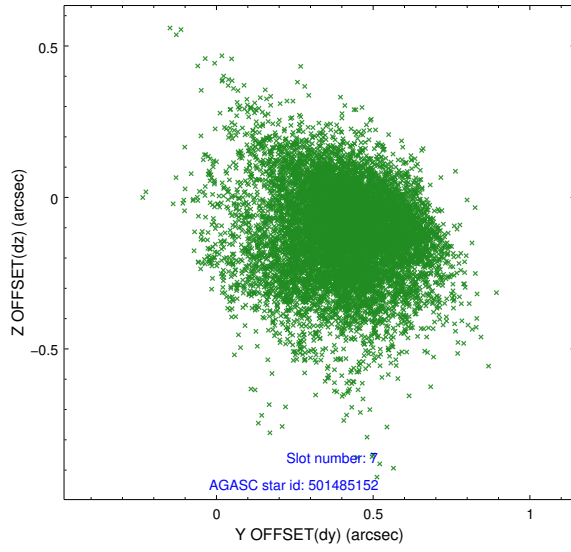
2.4.3 Slot 5



2.4.4 Slot 6

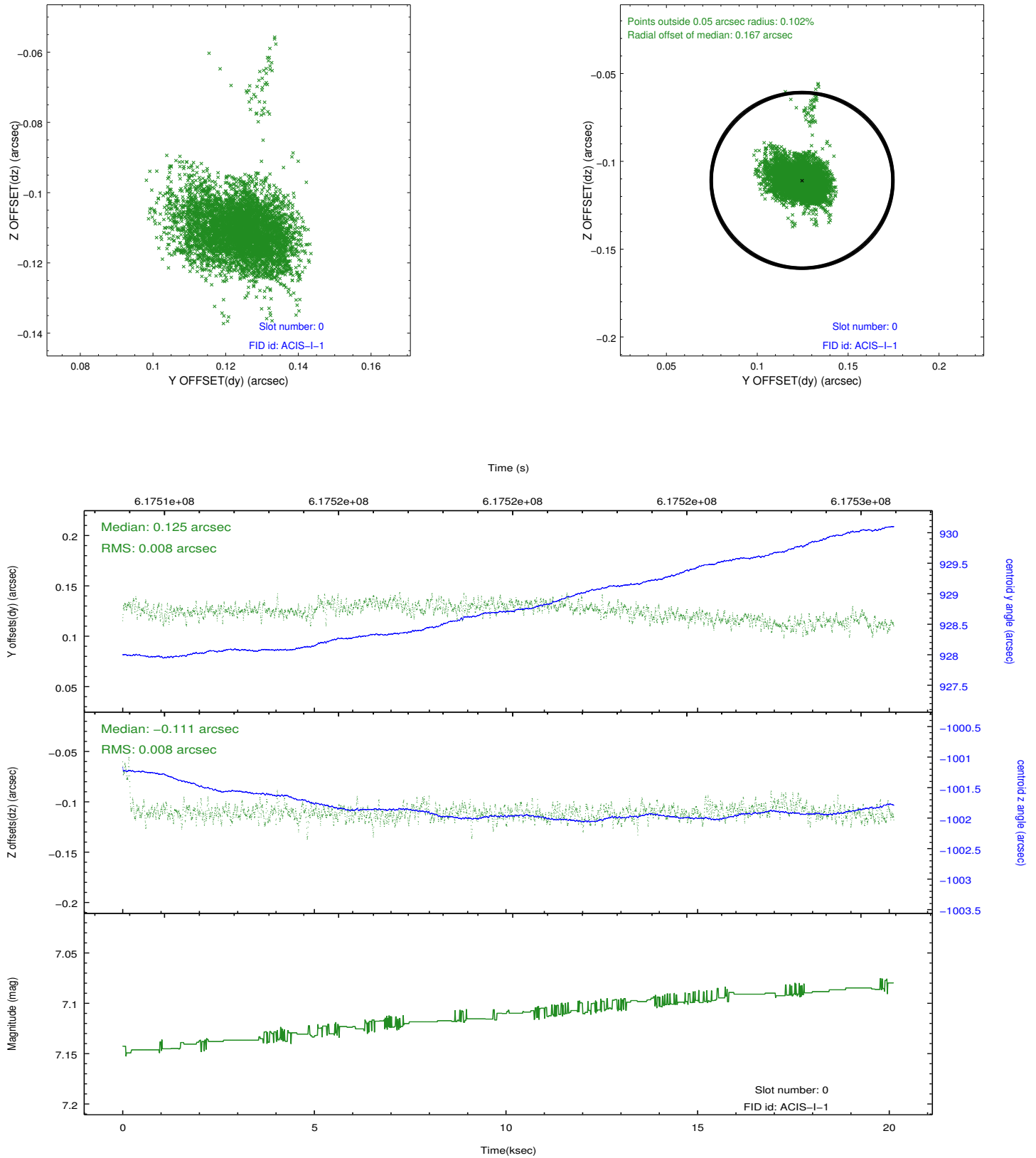


2.4.5 Slot 7

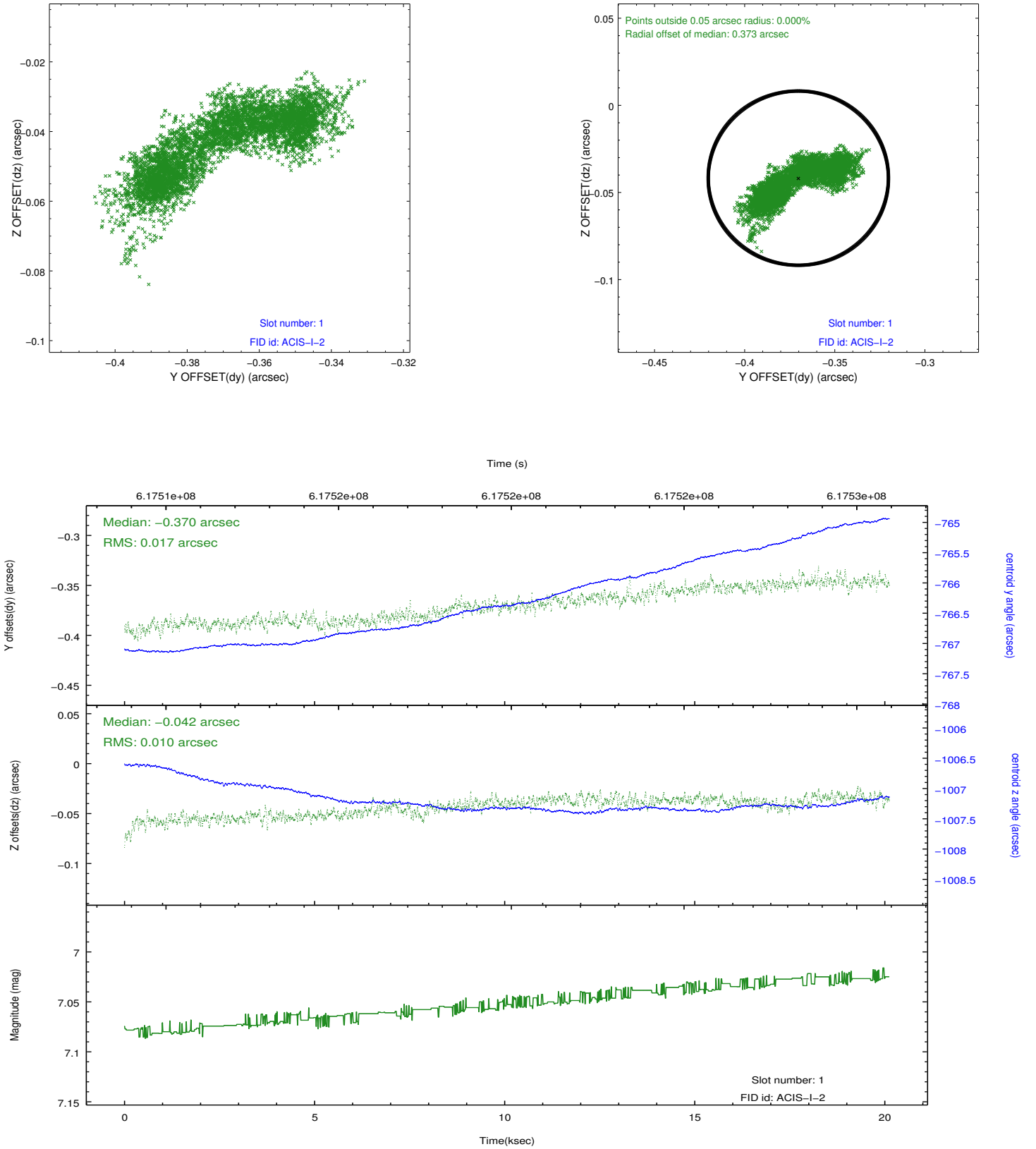


2.5 FID Slots

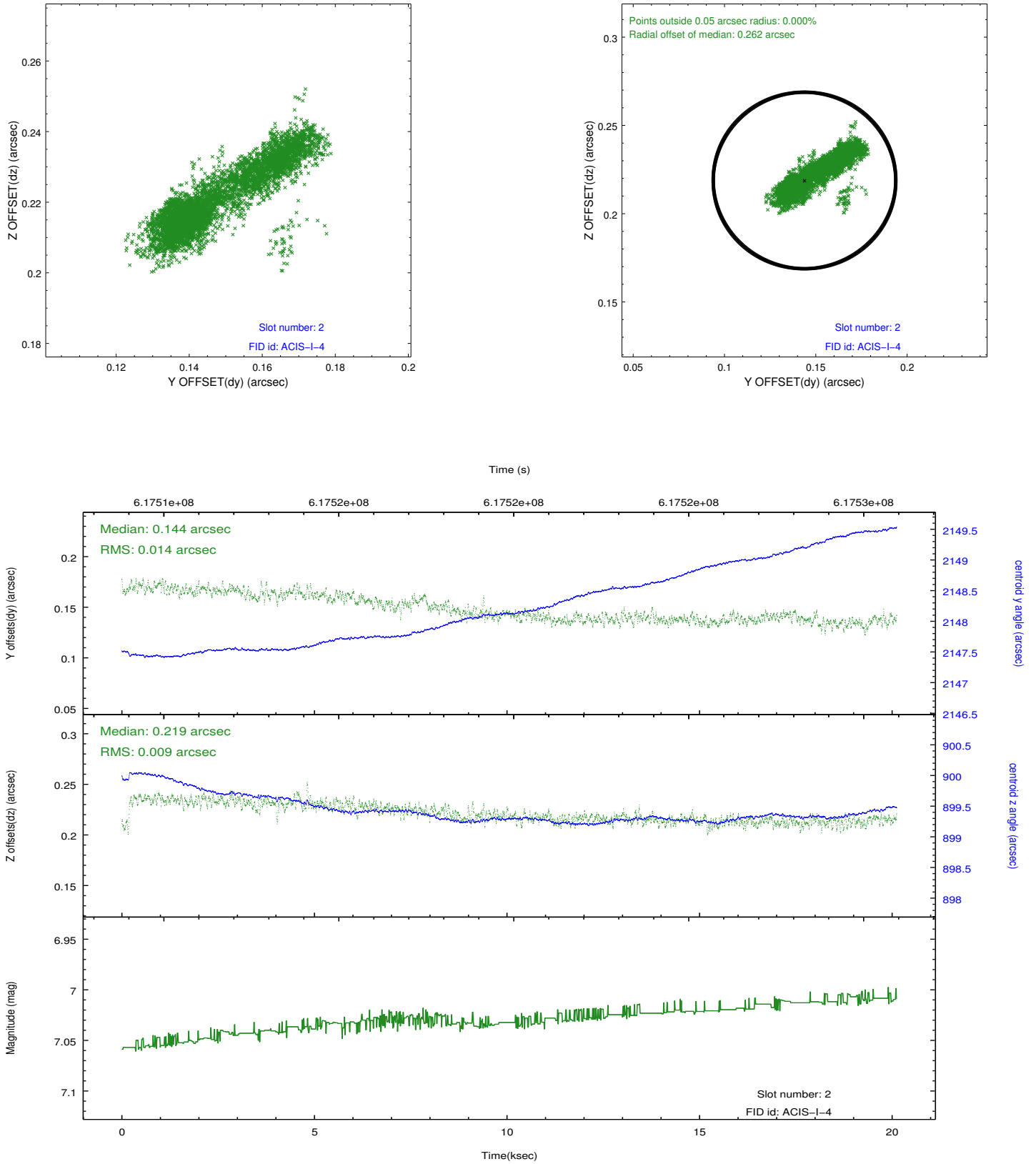
2.5.1 Slot 0



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)	2017.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.068347579479

A.2 Comments