

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19568 - L2 Version 1
Chandra X-Ray Center

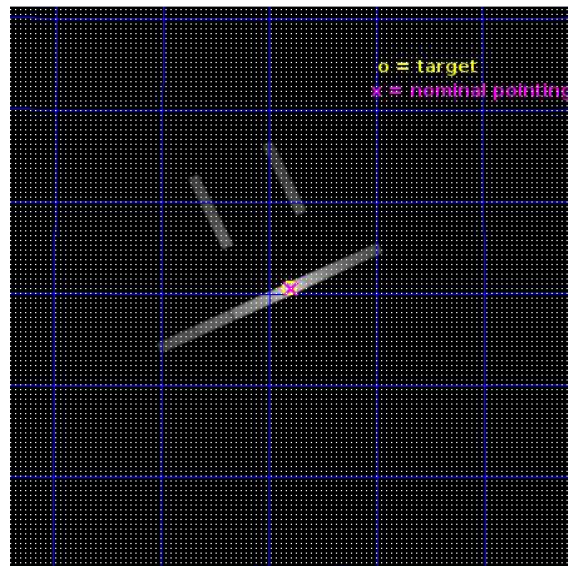
L2 Processing Date : Nov 2 2016

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1 Front

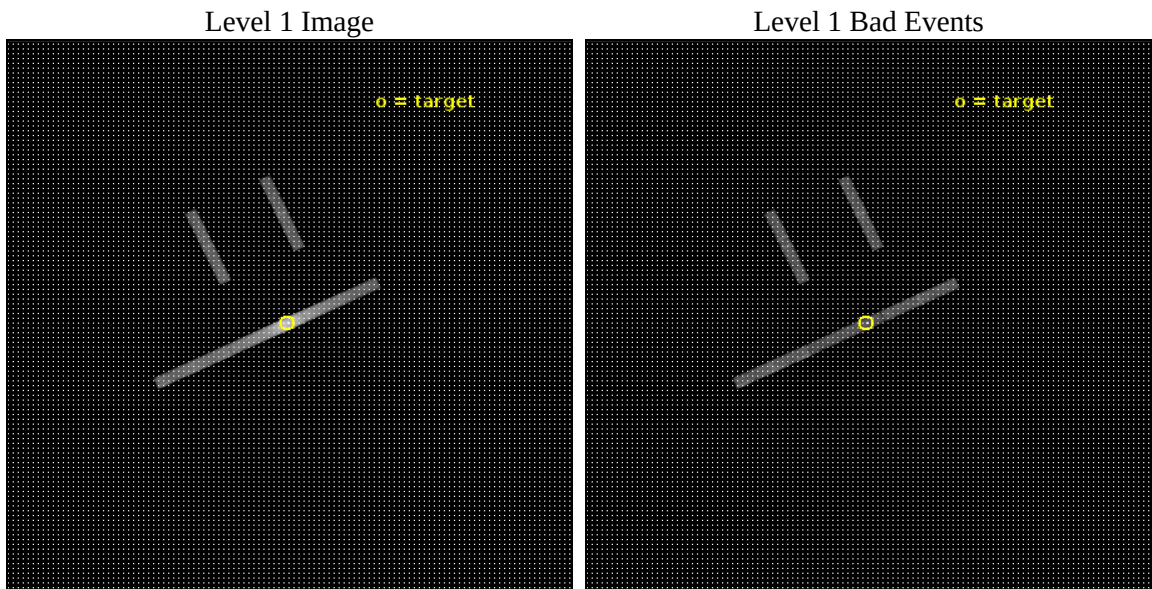
seq_num	801661	Sequence number
obs_id	19568	Observation id
title	Perseus and NGC 1275: Inner Bubbles and Inner Disks	Proposal title
observer	Jon Miller	Principal investigator
object	Perseus Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511694	Observer's specified target Dec [deg]
ra_nom	49.947643347246	Nominal RA [deg]
dec_nom	41.509501383123	Nominal Dec [deg]
roll_nom	154.65874830911	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30170.702055216	Sum of GTIs [s]
livetime	28499.799523172	Livetime [s]
ontime2	30170.702055216	Sum of GTIs [s]
ontime3	30170.702055216	Sum of GTIs [s]
ontime6	30170.702055216	Sum of GTIs [s]
ontime7	30170.702055216	Sum of GTIs [s]
ontime8	30170.702055216	Sum of GTIs [s]
l2events	512155	Number of level 2 events



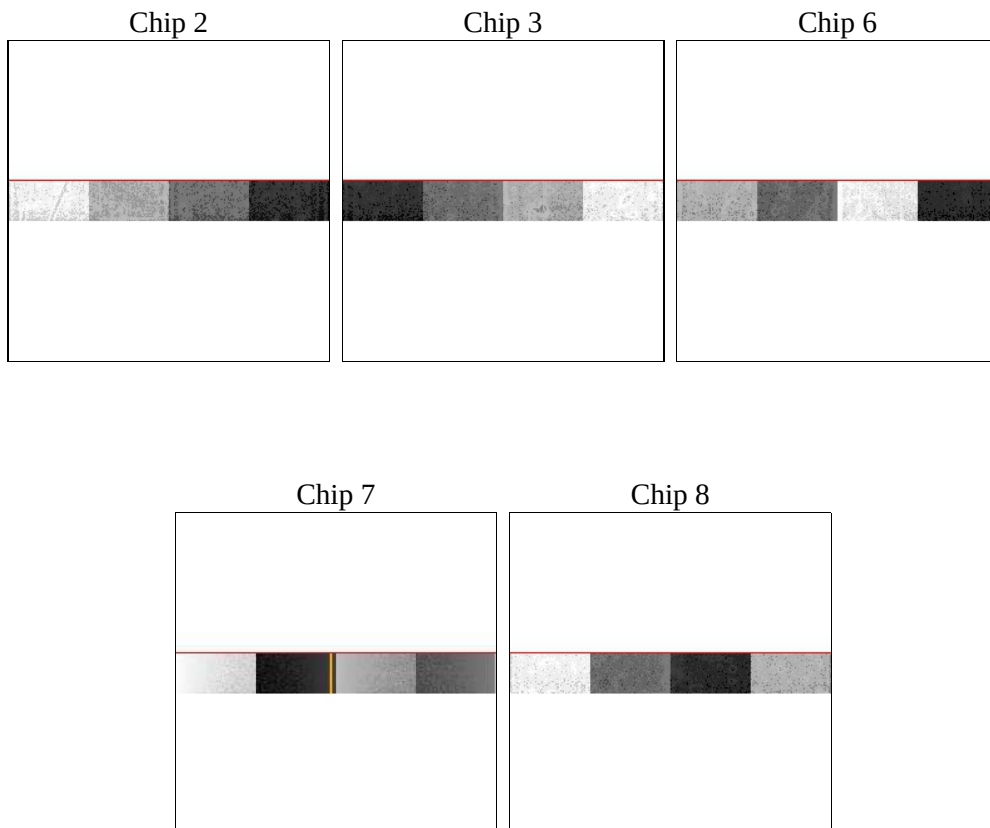
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30100.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30170.702055216	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	30170.702055216	Sum of GTIs [s]
date	2016-11-02T03:55:35	Date and time of file creation	ontime3	30170.702055216	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	30170.702055216	Sum of GTIs [s]
			ontime7	30170.702055216	Sum of GTIs [s]
			ontime8	30170.702055216	Sum of GTIs [s]
			l1events	696273	Number of level 1 events

2.1.4 Events

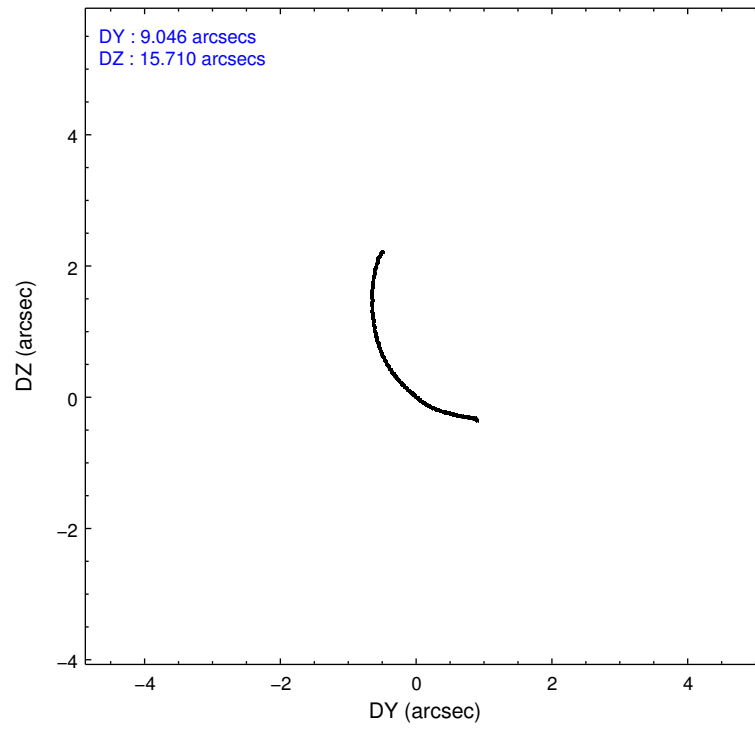
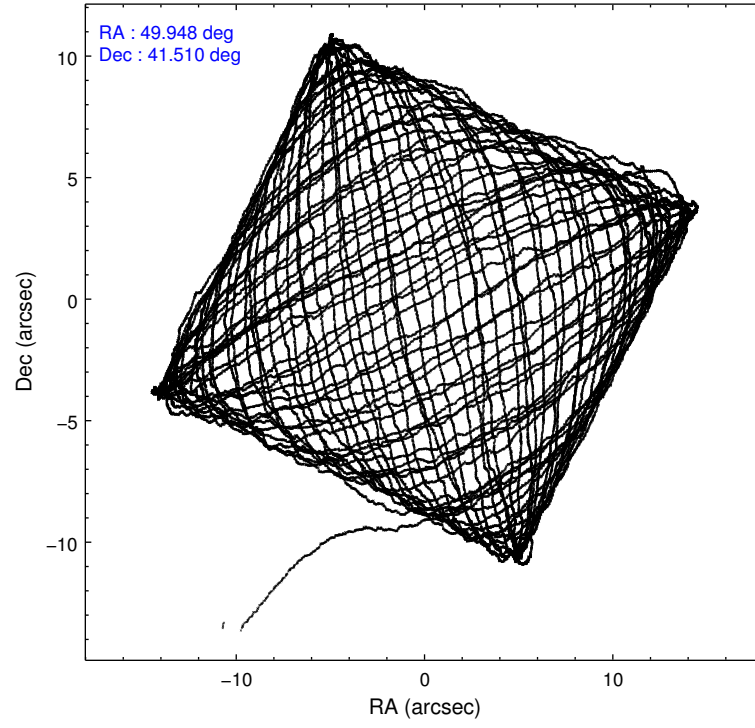
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	36528	41715	99853	453491	64686
rejected events	27203	28822	29970	41534	37903
rejected %	74%	69%	30%	9%	58%

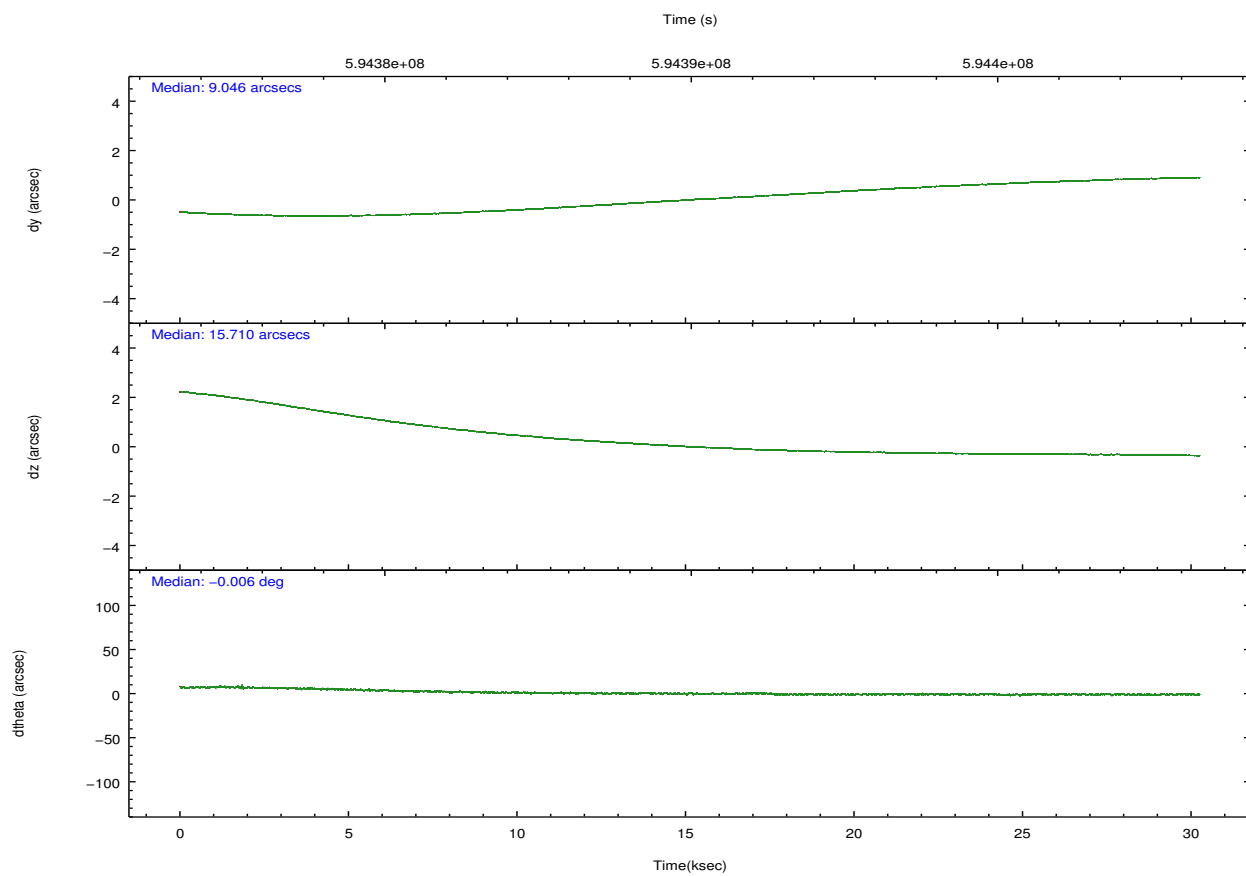
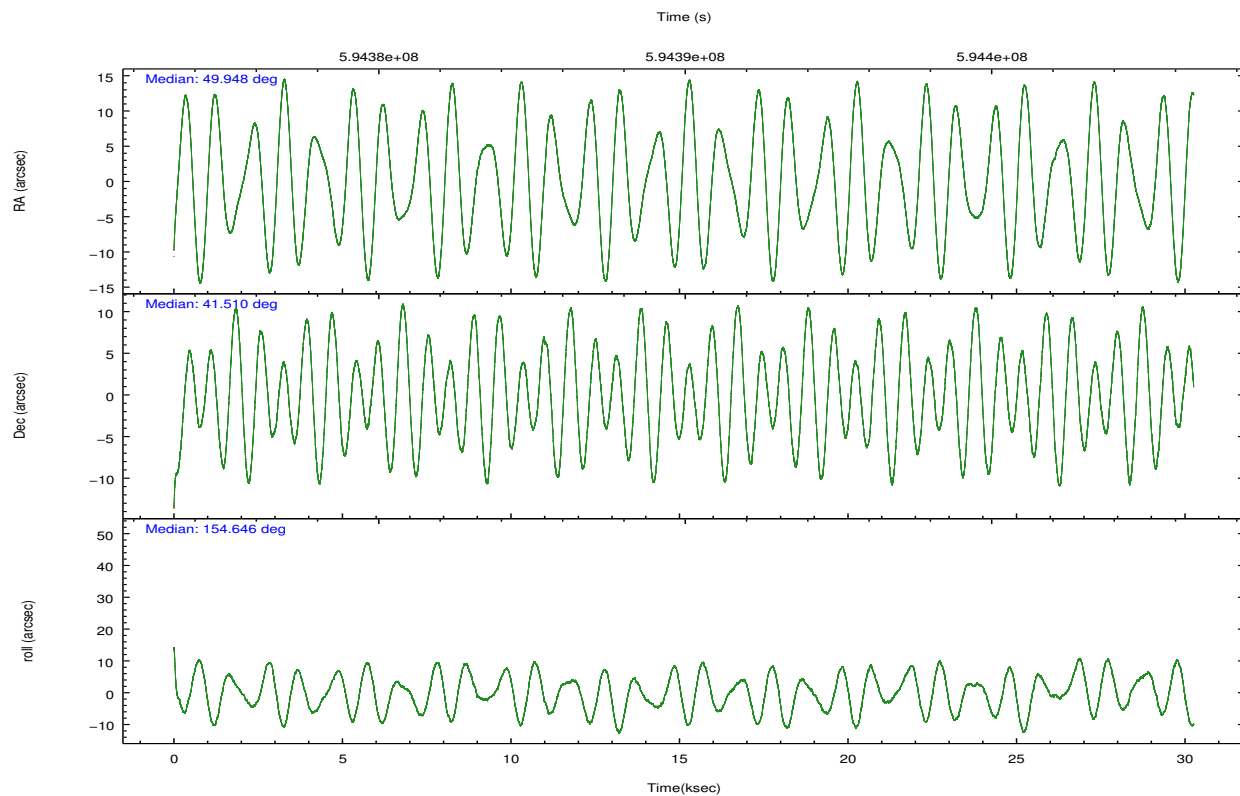
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5623	8494	53696	105955	14898
	15%	20%	53%	23%	23%
grade 1 events	22	23	110	1154	33
	0%	0%	0%	0%	0%
grade 2 events	1348	1734	7830	106564	4344
	3%	4%	7%	23%	6%
grade 3 events	804	871	2877	47230	1707
	2%	2%	2%	10%	2%
grade 4 events	792	865	2713	46929	1596
	2%	2%	2%	10%	2%
grade 5 events	1026	1355	1495	11104	1944
	2%	3%	1%	2%	3%
grade 6 events	758	930	2768	105311	4238
	2%	2%	2%	23%	6%
grade 7 events	26155	27443	28364	29244	35926
	71%	65%	28%	6%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	49.984128	49.94764334724582	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	41.512091	41.50950138312318	Subarray start row	449	449
[deg] Pointing Roll	154.477939	154.658748309112	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.7
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	594374974.184000	594373701.06057			
Observation start date	2016-11-01T08:08:26	2016-11-01T07:48:21			
[s] Observation end time (MET)	594405074.184000	594406105.92493			
Observation end date	2016-11-01T16:30:06	2016-11-01T16:48:25			
Read mode	TIMED	TIMED			

2.3 Aspect



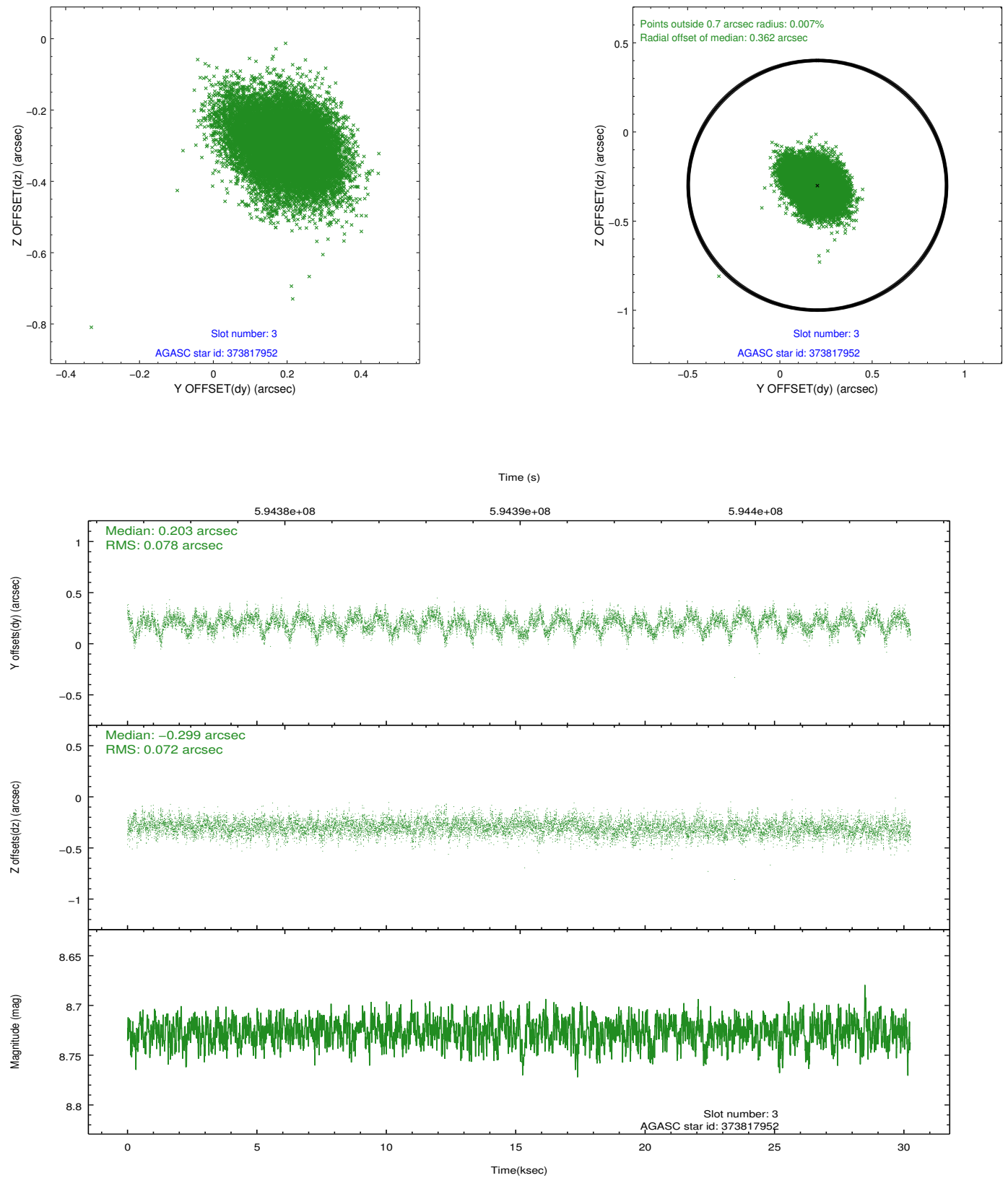


Slot Statistics

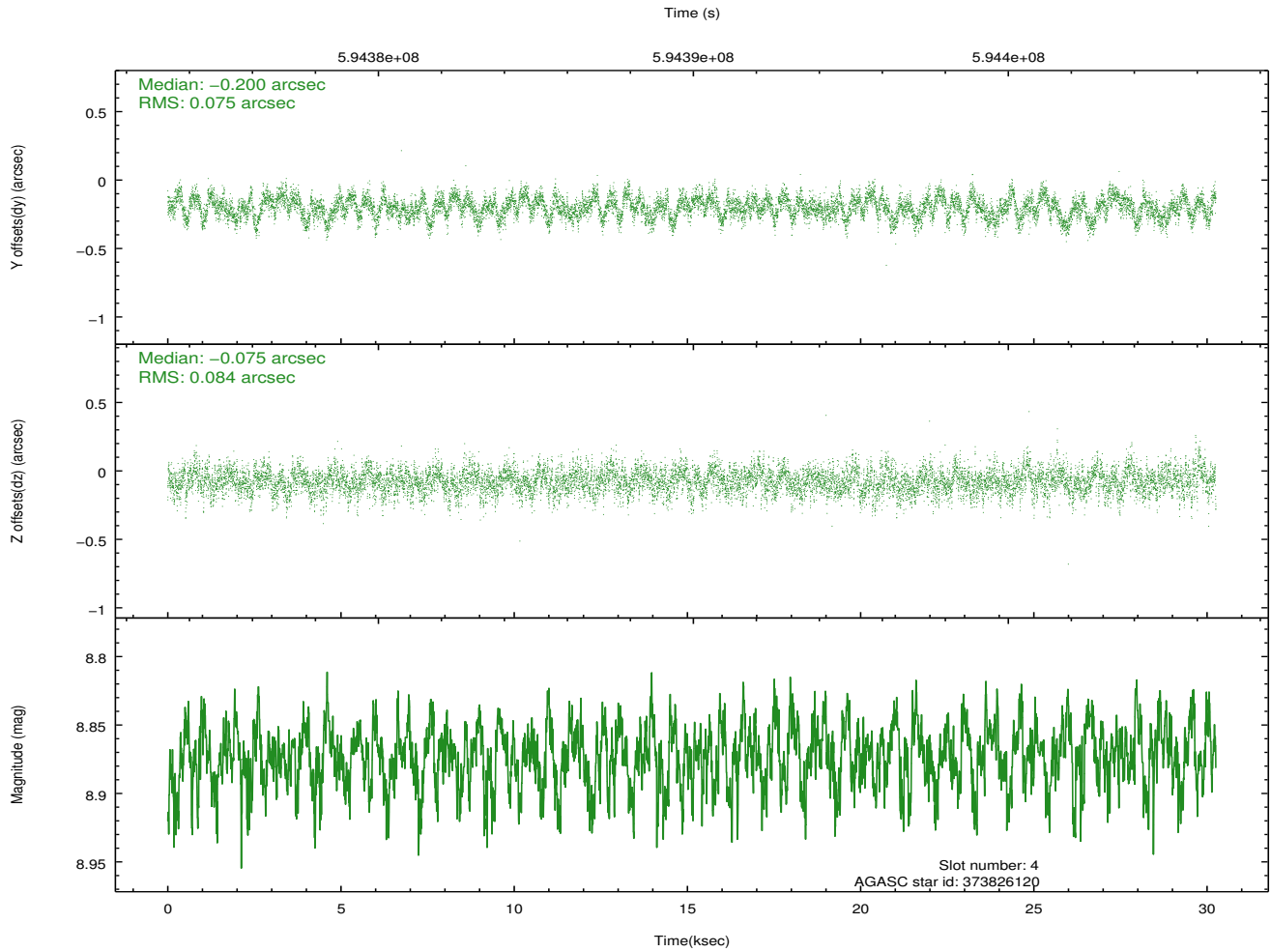
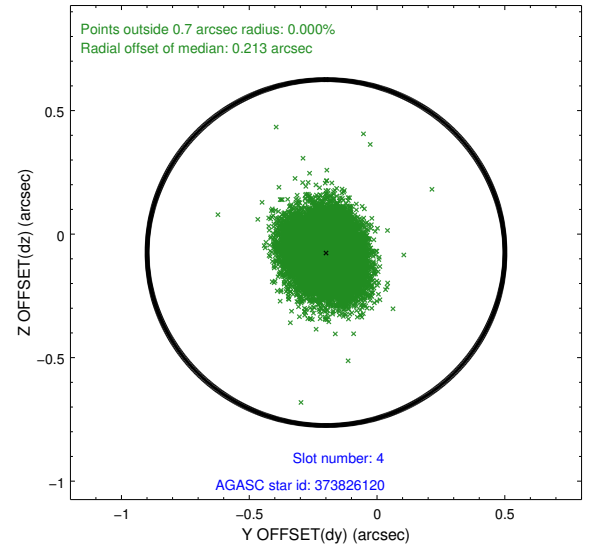
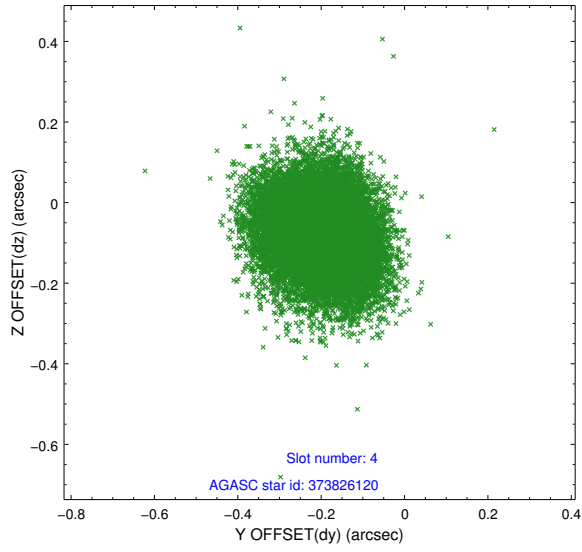
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.10	7379	0.268	0.001	0.016	0.024	0.000000	0.000000	2151.72	171.30
1	FID		ACIS-S-5	7.11	7380	-0.331	-0.008	0.027	0.054	0.000000	0.000000	-1814.96	164.68
2	FID		ACIS-S-6	7.23	7378	0.030	0.021	0.018	0.033	0.000000	0.000000	399.65	808.50
3	GUIDE	used	373817952	8.73	14748	0.203	-0.299	0.112	0.185	49.913424	40.978510	-654.24	1816.16
4	GUIDE	used	373826120	8.87	14750	-0.200	-0.075	0.119	0.192	49.738165	41.186341	96.33	1344.88
5	GUIDE	used	376057824	8.32	14748	0.176	0.256	0.095	0.162	50.665569	41.926280	-1001.21	-2137.68
6	GUIDE	used	374357808	8.65	14751	-0.149	0.062	0.116	0.198	49.921429	42.176083	1181.20	-2084.67
7	GUIDE	used	374352808	8.75	14751	-0.022	0.063	0.119	0.199	49.969955	42.208621	1115.24	-2246.01

2.4 Star Slots

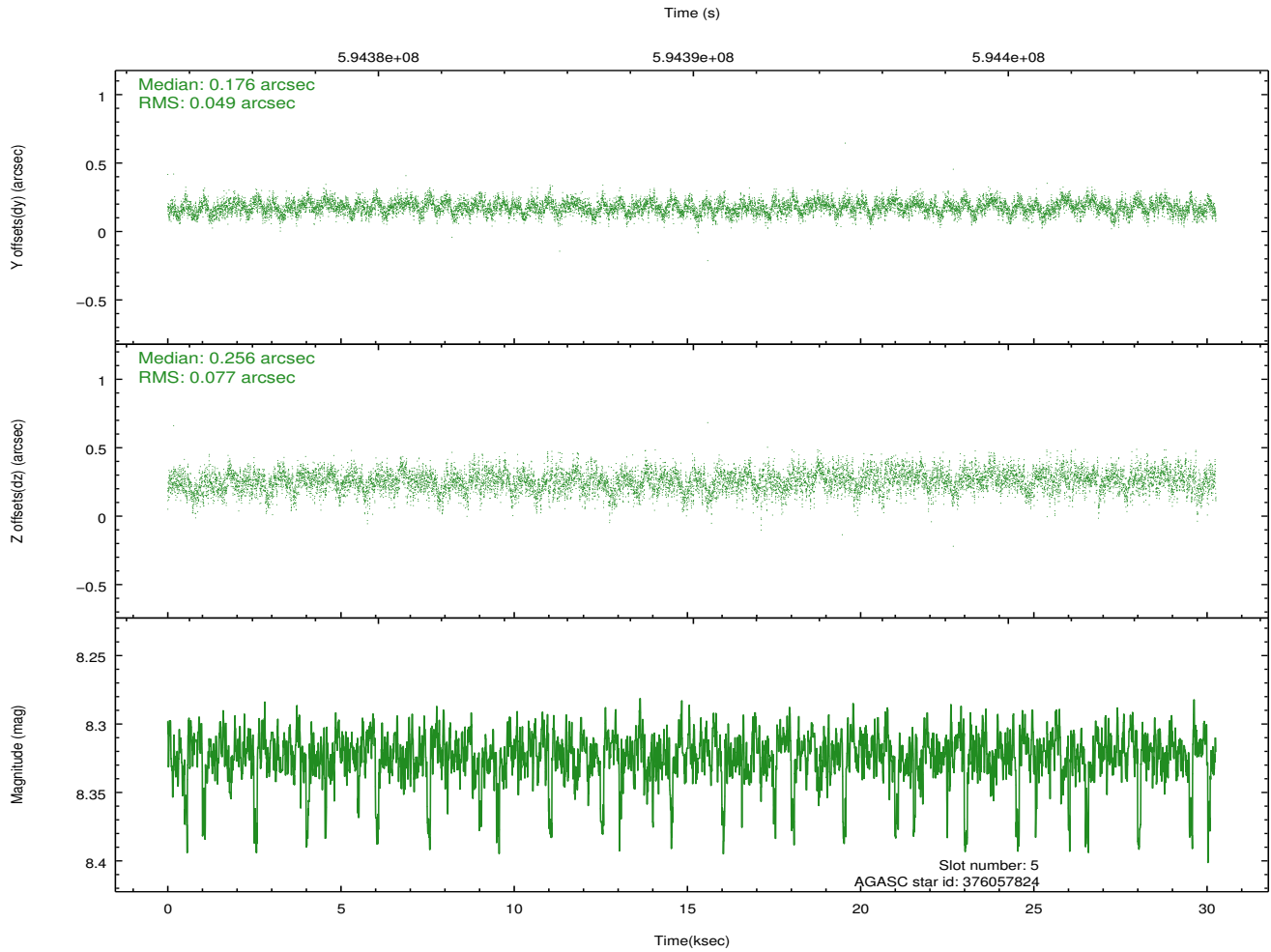
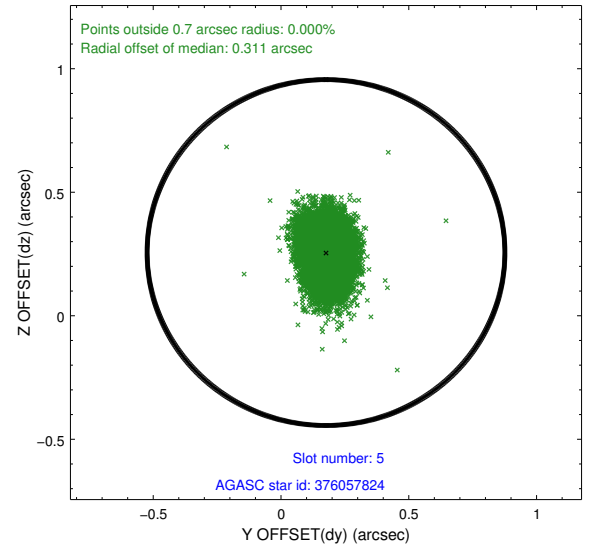
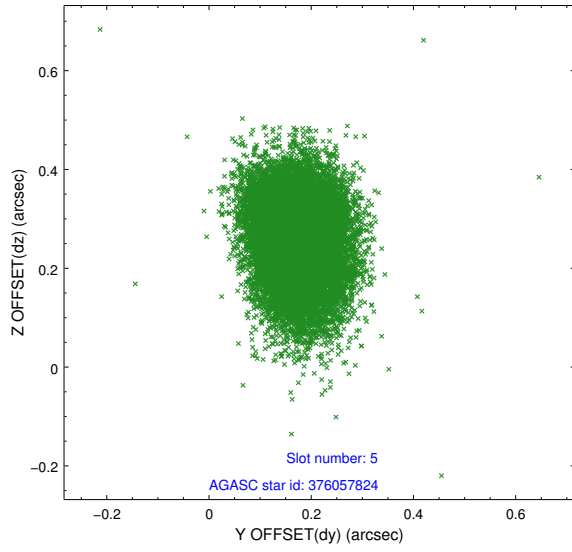
2.4.1 Slot 3



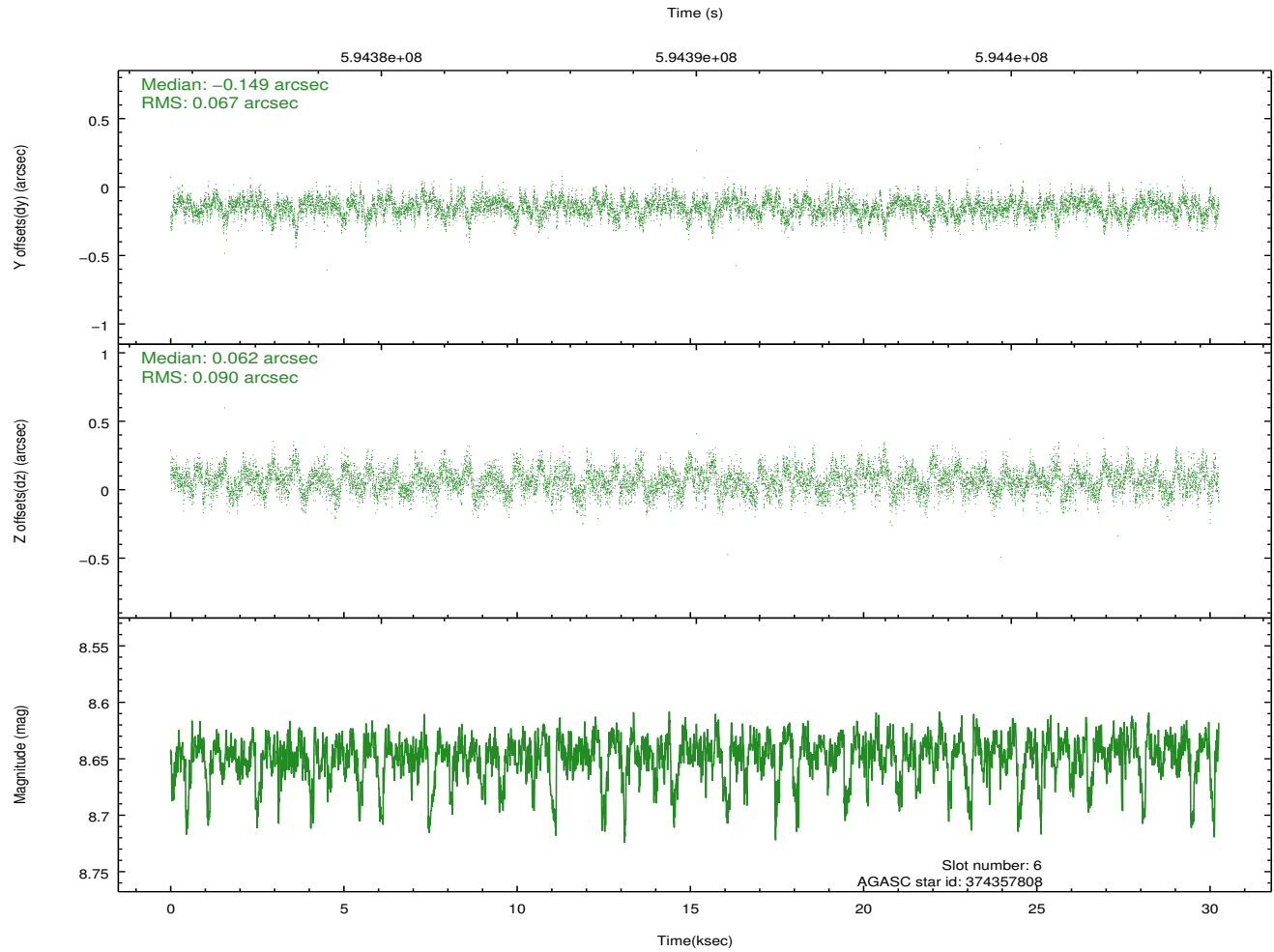
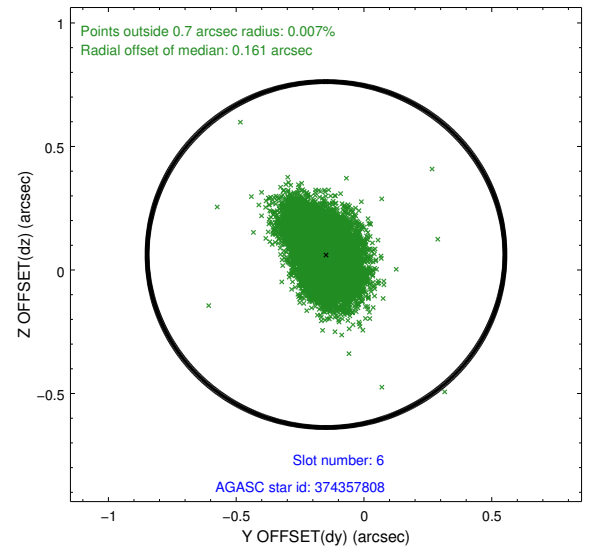
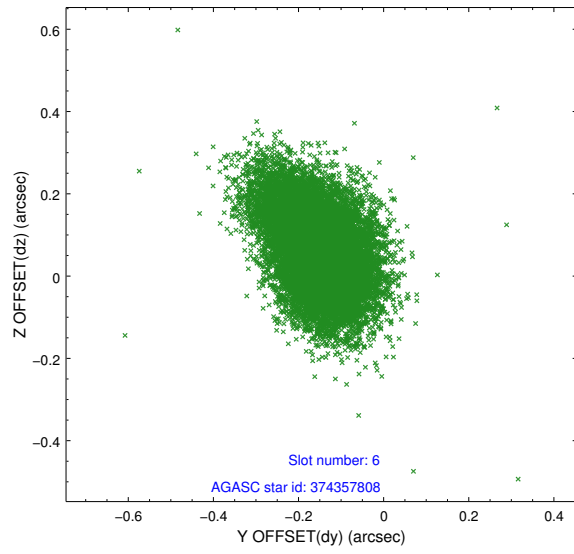
2.4.2 Slot 4



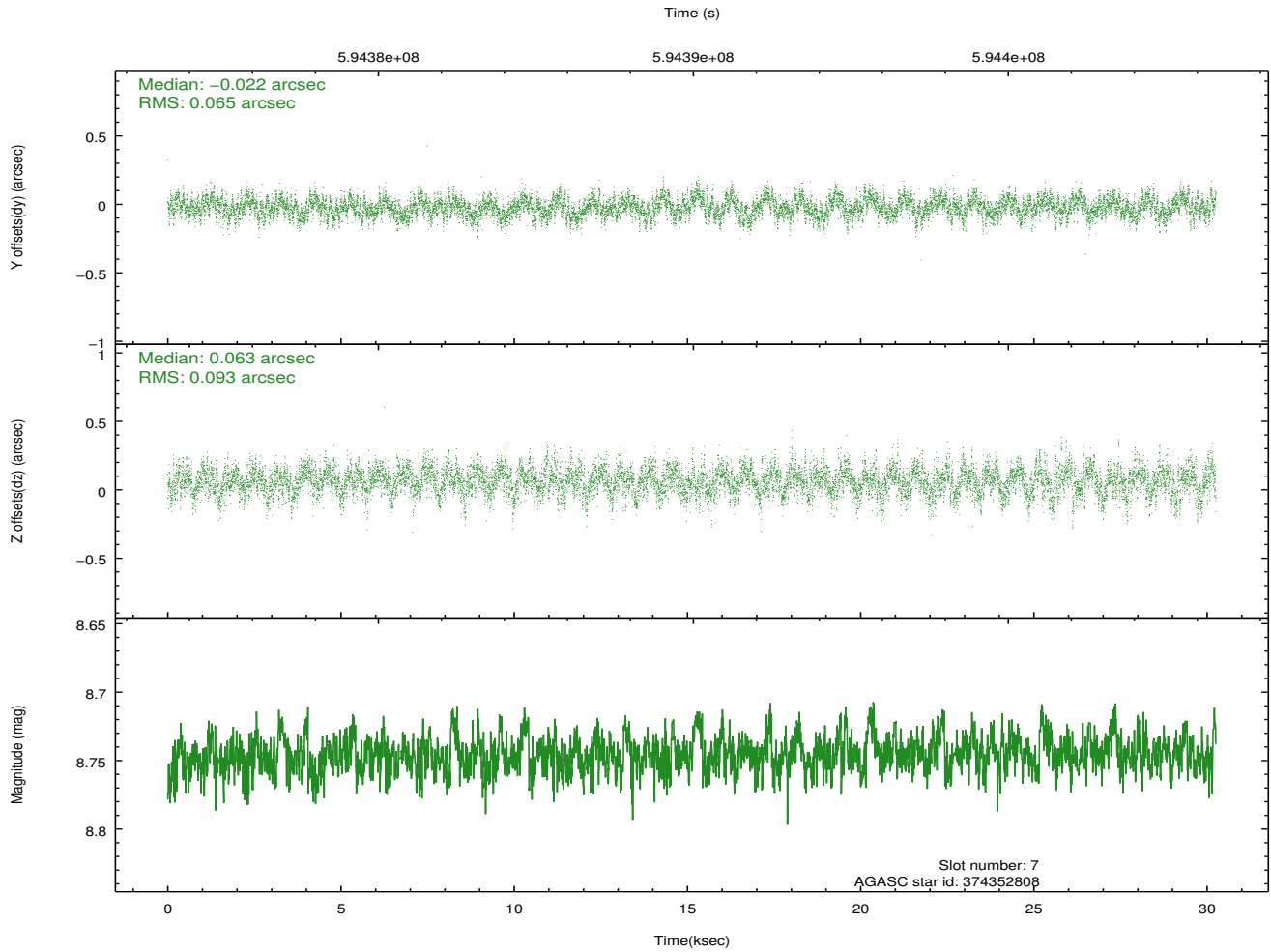
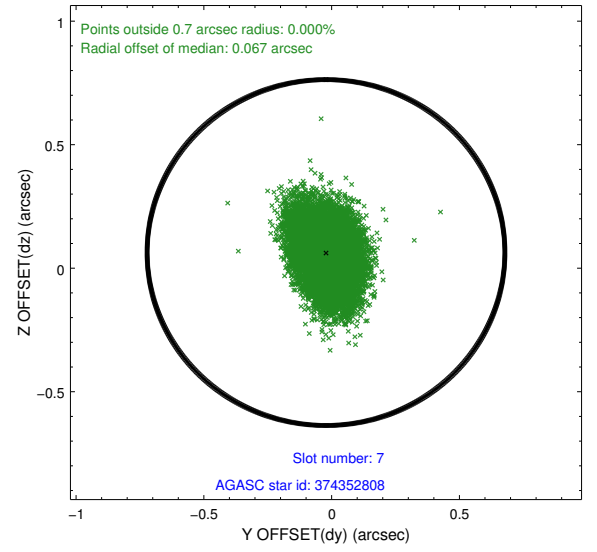
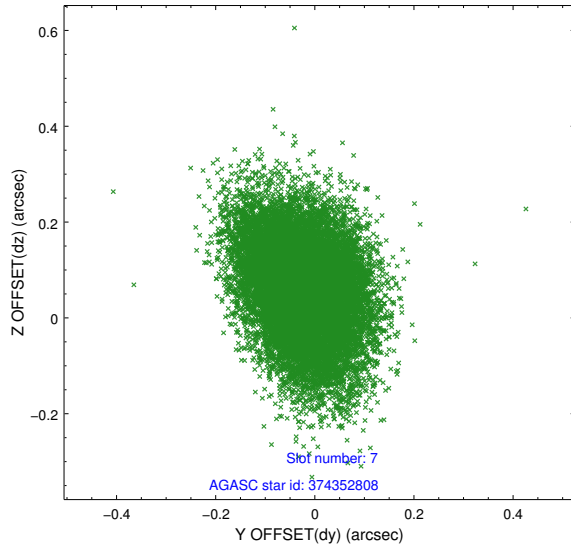
2.4.3 Slot 5



2.4.4 Slot 6

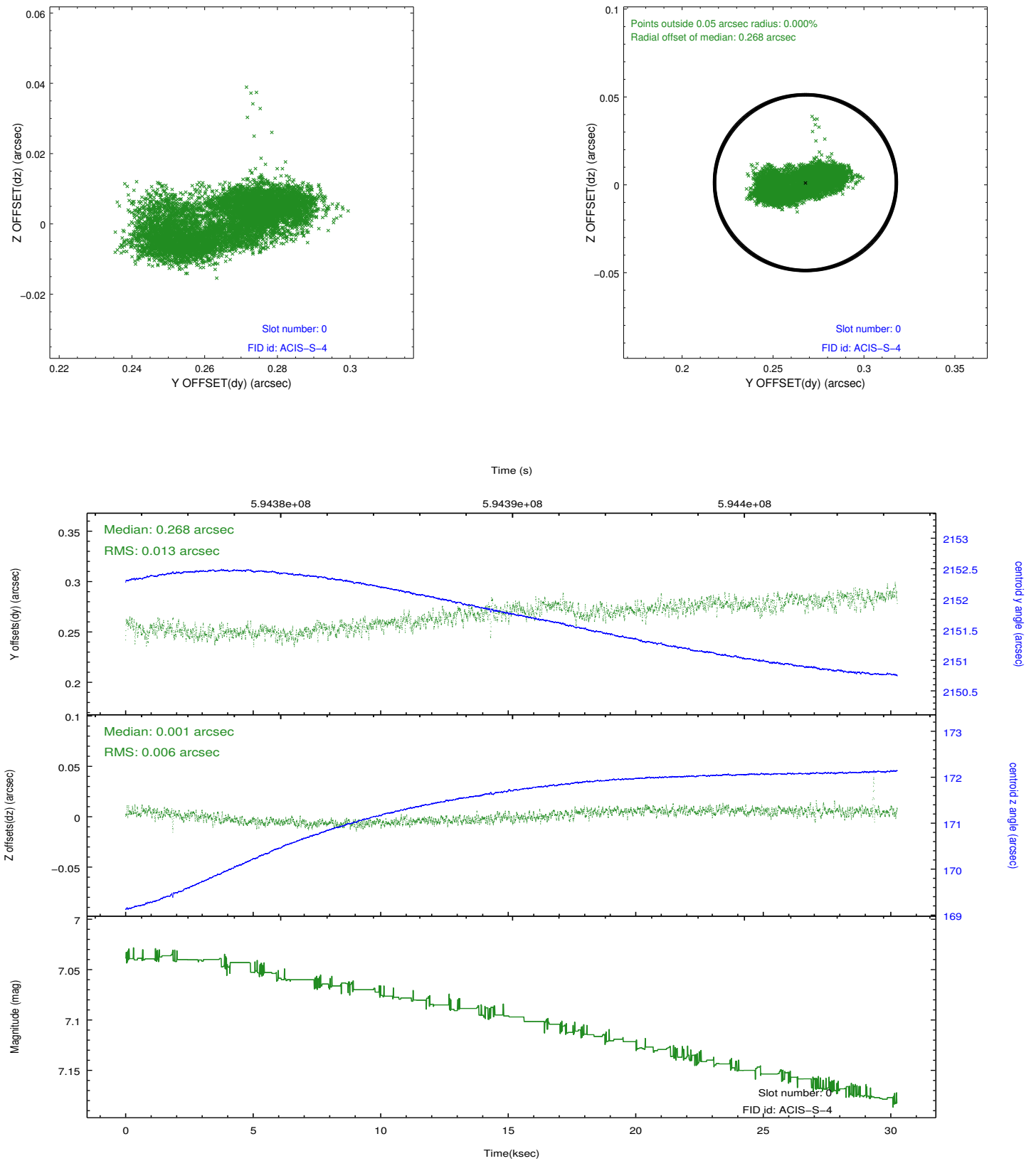


2.4.5 Slot 7

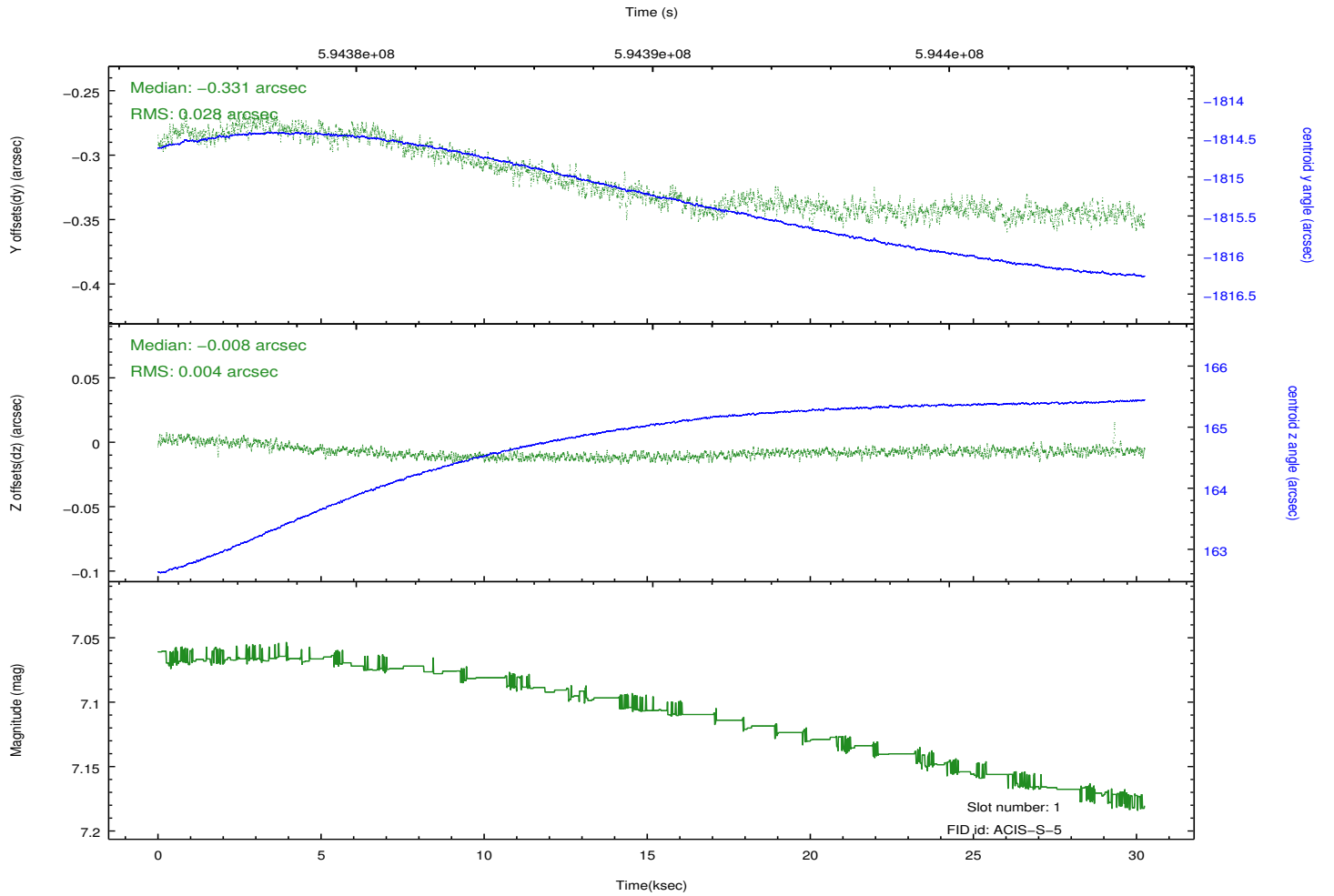
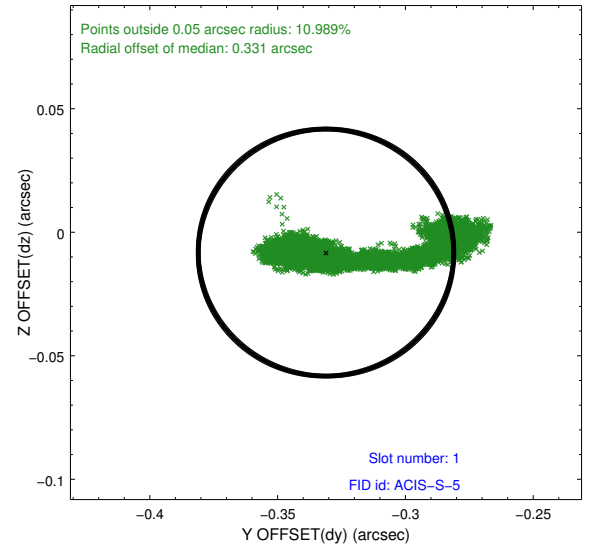
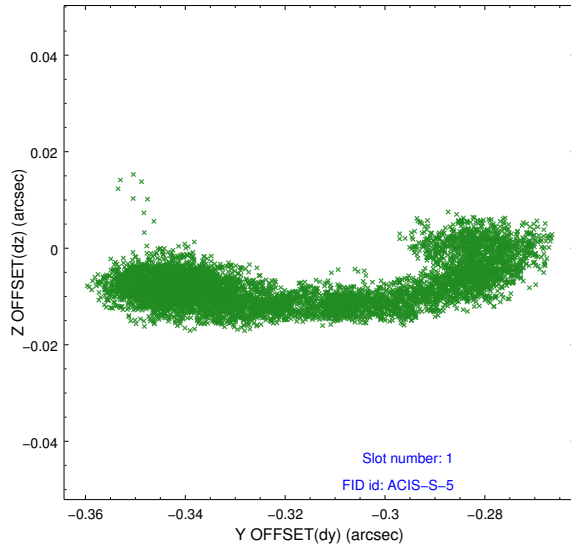


2.5 FID Slots

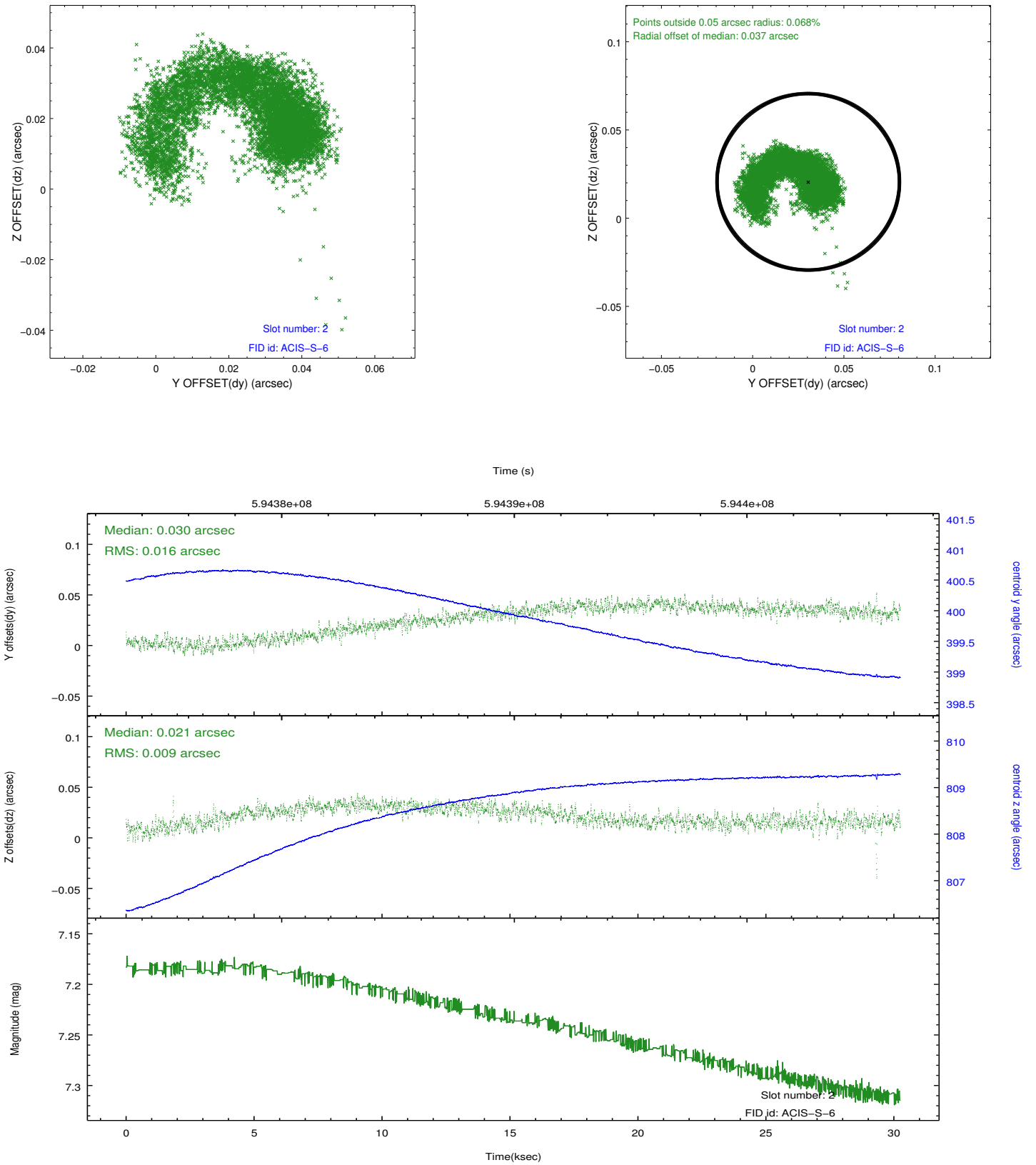
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.170702055216

A.2 Comments