

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17265 - L2 Version 1
Chandra X-Ray Center

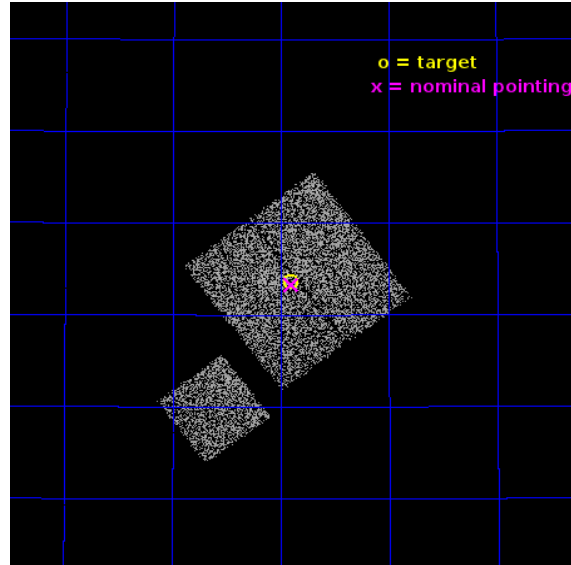
L2 Processing Date : Dec 7 2015

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1 Front

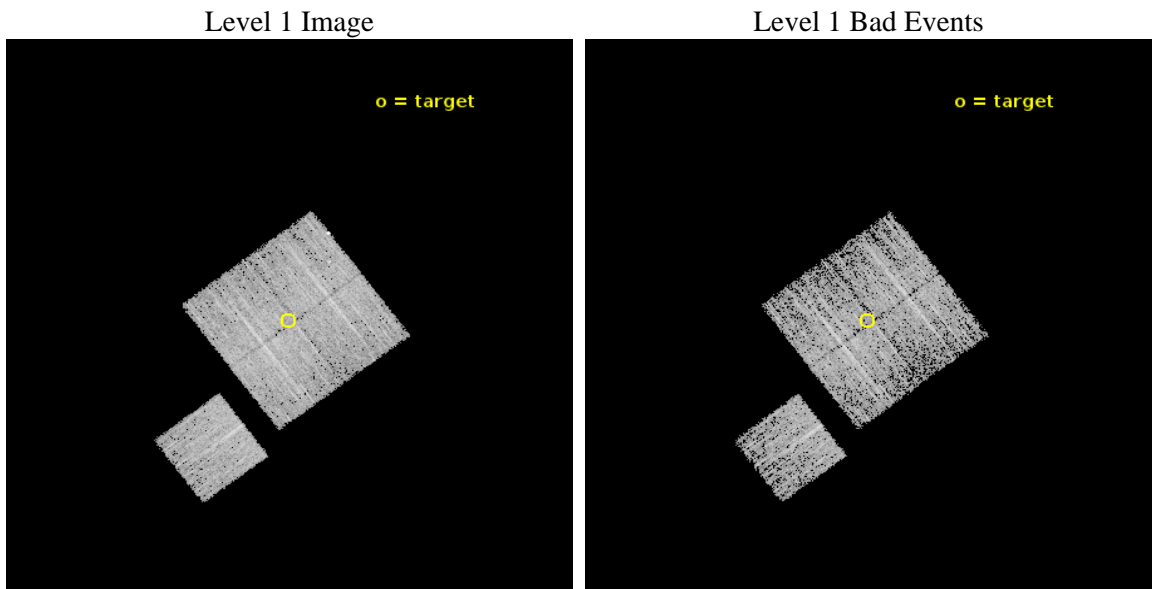
seq_num	801510	Sequence number
obs_id	17265	Observation id
title	Perseus: A New, Low-Redshift Anchor for Cluster Cosmology	Proposal
observer	Prof. Steven Allen	Principal investigator
object	Perseus cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.72778	Observer's specified target RA [deg]
dec_targ	41.060869	Observer's specified target Dec [deg]
ra_nom	50.725666789165	Nominal RA [deg]
dec_nom	41.054768550456	Nominal Dec [deg]
roll_nom	233.04935318416	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5074.7000391483	Sum of GTIs [s]
livetime	5008.395347197	Livetime [s]
ontime0	5074.7000391483	Sum of GTIs [s]
ontime1	5074.7000391483	Sum of GTIs [s]
ontime2	5074.7000391483	Sum of GTIs [s]
ontime3	5074.7000391483	Sum of GTIs [s]
ontime6	5074.7000391483	Sum of GTIs [s]
l2events	15317	Number of level 2 events



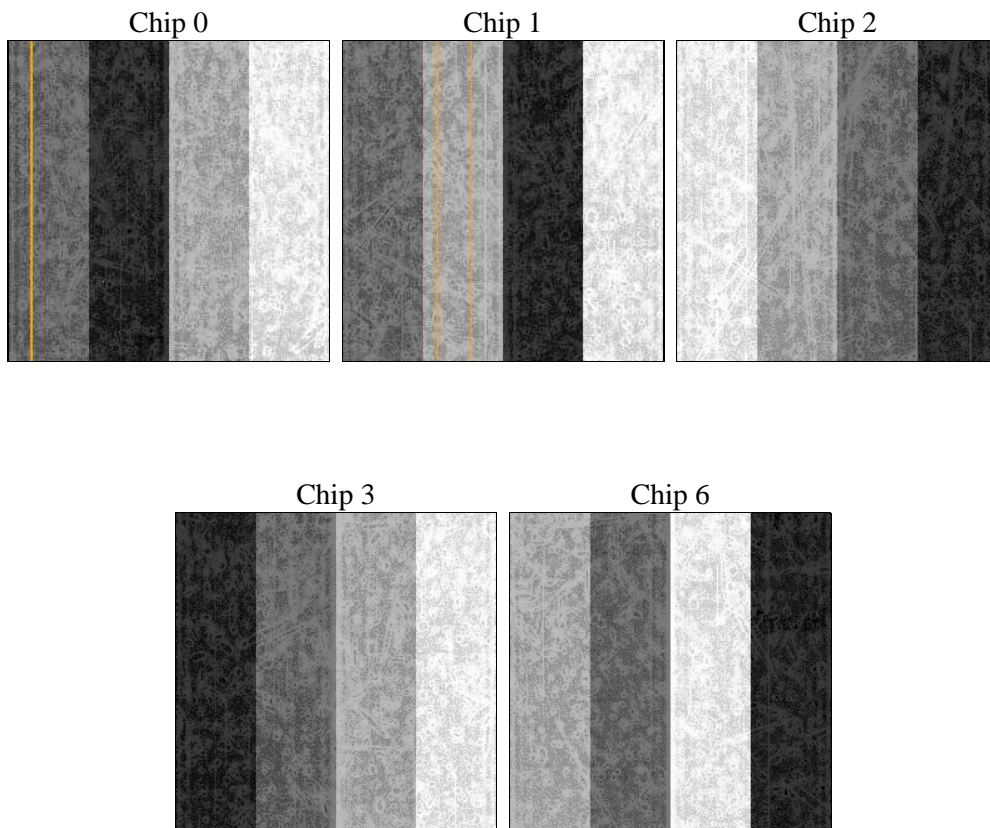
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	5074.7000391483	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	5074.7000391483	Sum of GTIs [s]
date	2015-12-07T20:37:30	Date and time of file creation	ontime1	5074.7000391483	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5074.7000391483	Sum of GTIs [s]
			ontime3	5074.7000391483	Sum of GTIs [s]
			ontime6	5074.7000391483	Sum of GTIs [s]
			l1events	138503	Number of level 1 events

2.1.4 Events

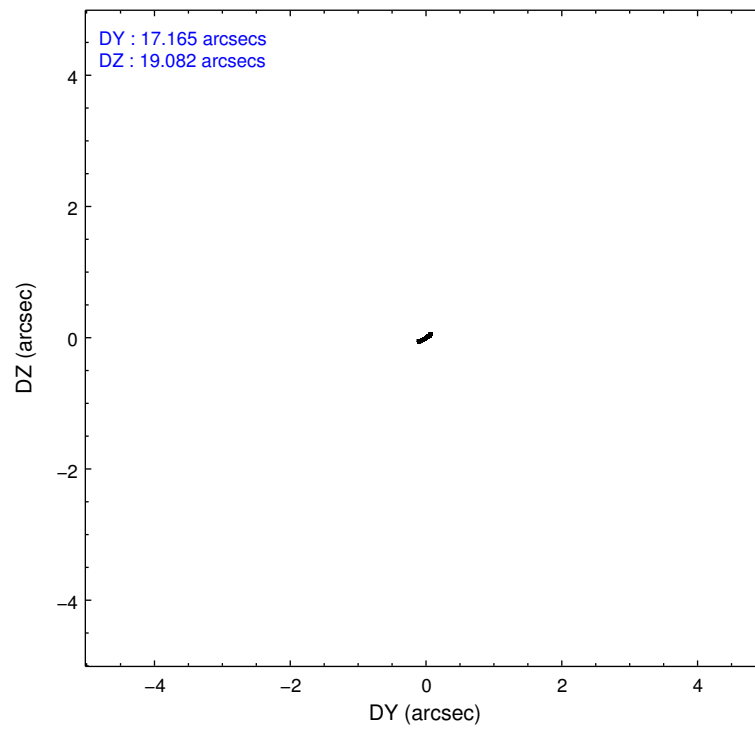
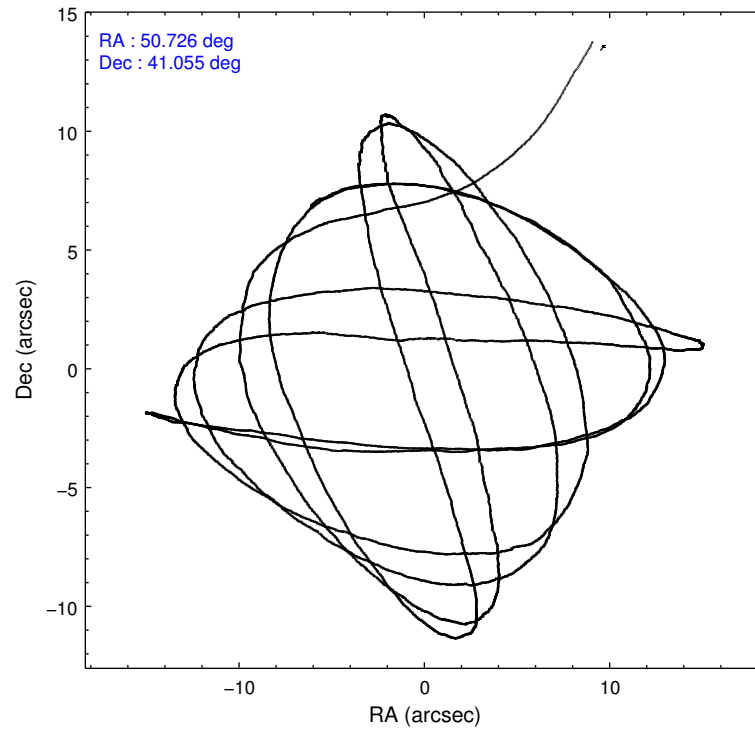
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	26177	28424	28928	27049	27925
rejected events	22418	23806	25576	23697	24584
rejected %	85%	83%	88%	87%	88%

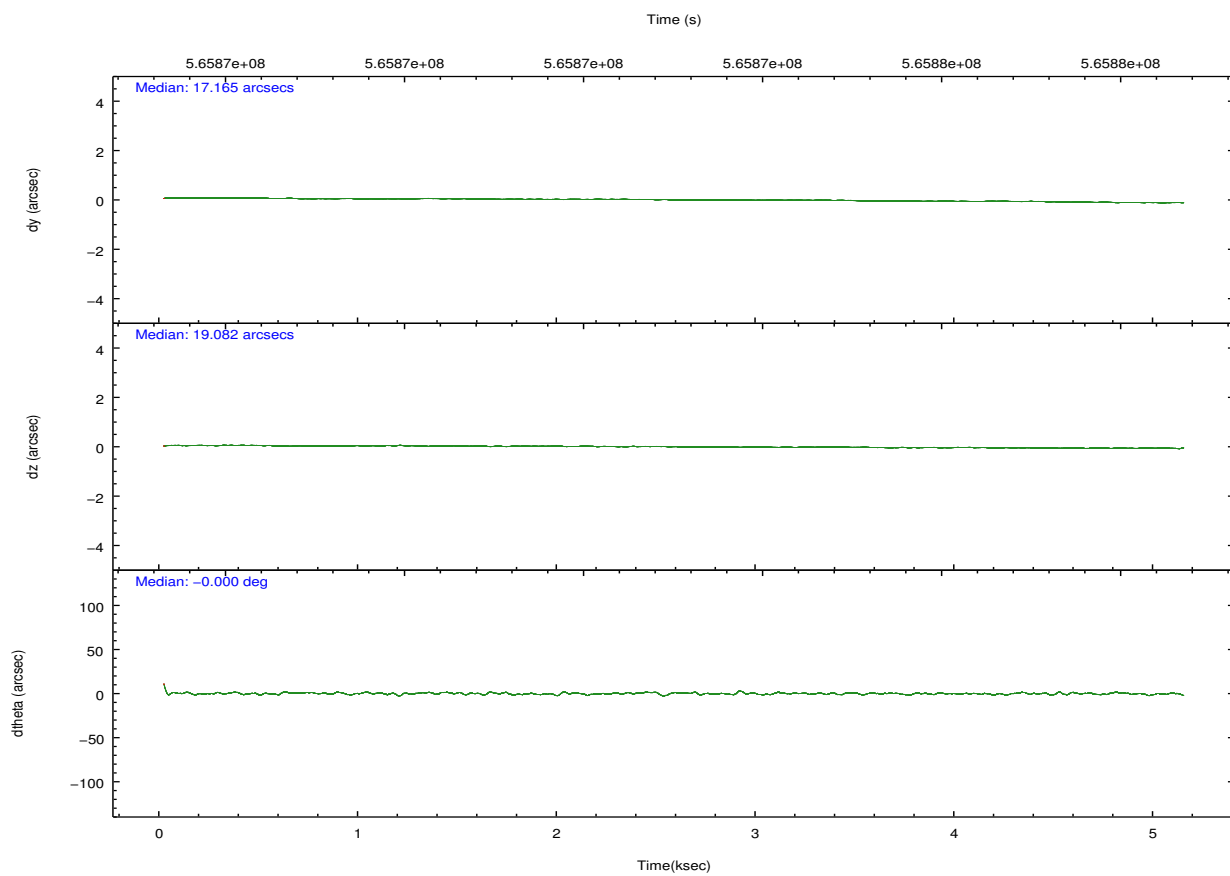
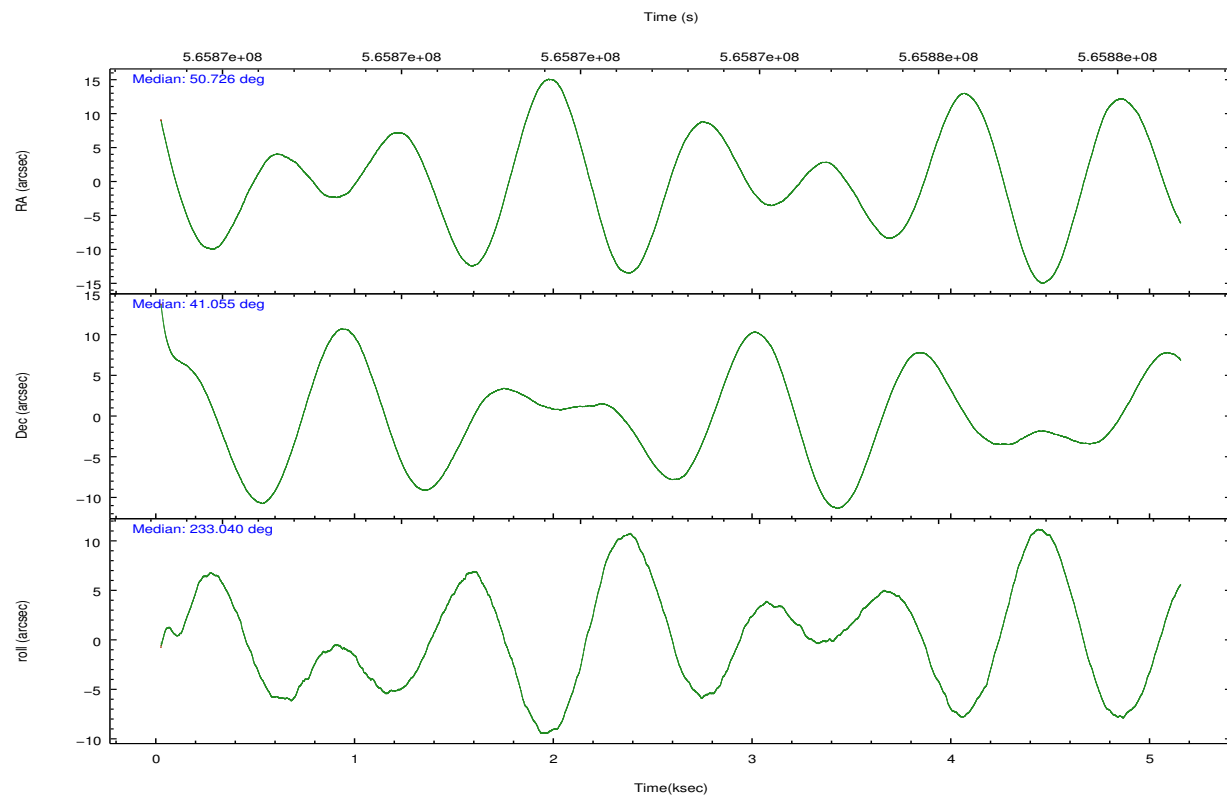
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1521	1678	1321	1360	1117
	5%	5%	4%	5%	4%
grade 1 events	18	11	15	20	11
	0%	0%	0%	0%	0%
grade 2 events	855	1405	733	651	787
	3%	4%	2%	2%	2%
grade 3 events	367	351	328	308	308
	1%	1%	1%	1%	1%
grade 4 events	334	338	357	339	345
	1%	1%	1%	1%	1%
grade 5 events	1254	1279	1121	1438	1333
	4%	4%	3%	5%	4%
grade 6 events	688	850	615	695	787
	2%	2%	2%	2%	2%
grade 7 events	21140	22512	24438	22238	23237
	80%	79%	84%	82%	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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	50.729942	50.72566678916523	CCD I2 on	Y	Y
[deg] Pointing Dec	41.082122	41.05476855045561	CCD I3 on	Y	Y
[deg] Pointing Roll	232.837845	233.0493531841556	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	565871068.184000	565869496.53188	CCD S5 on	N	N
Observation start date	2015-12-07T10:23:20	2015-12-07T09:58:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	565876068.184000	565876218.99476	On-chip summing requested	N	N
Observation end date	2015-12-07T11:46:40	2015-12-07T11:50:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



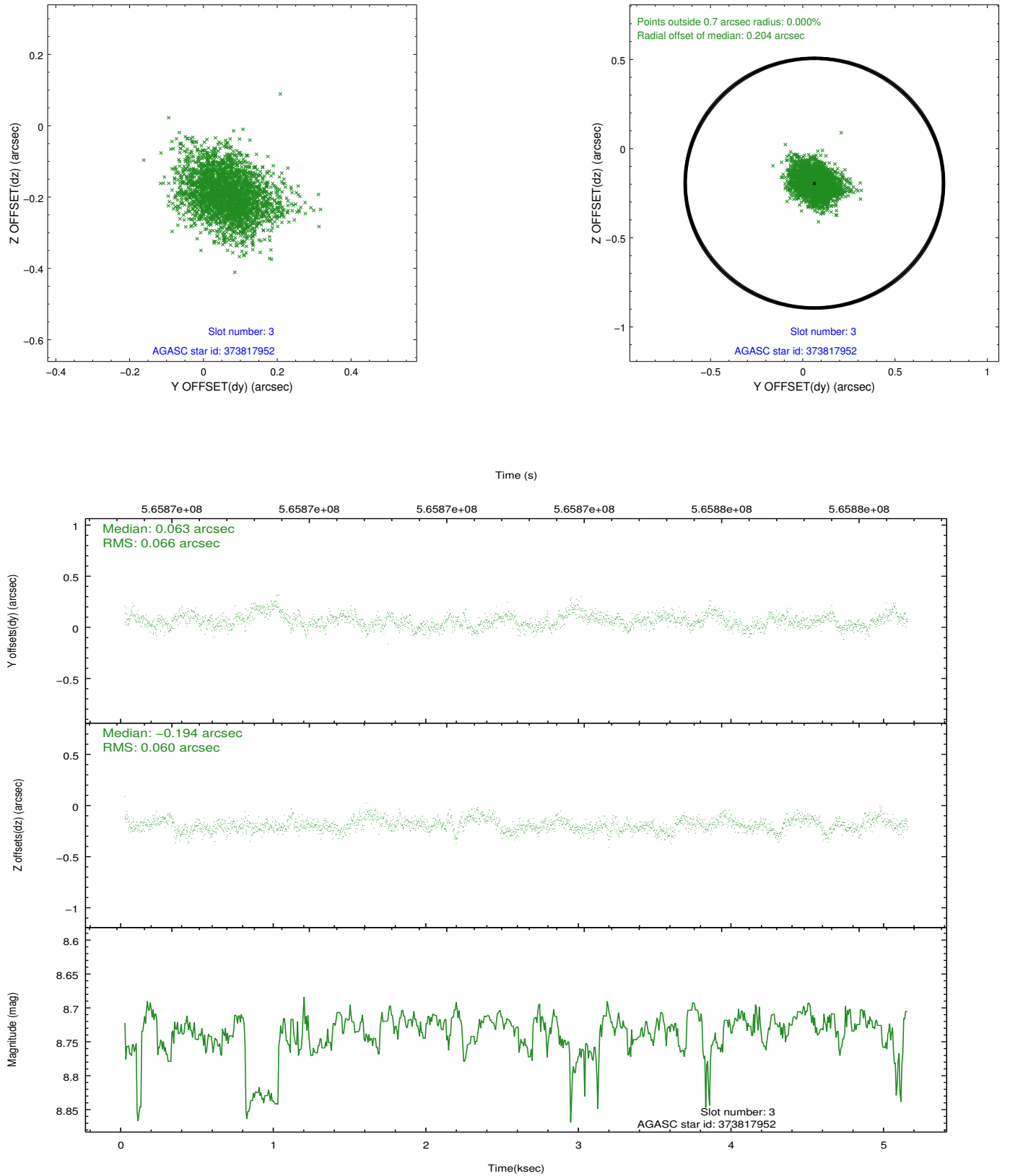


Slot Statistics

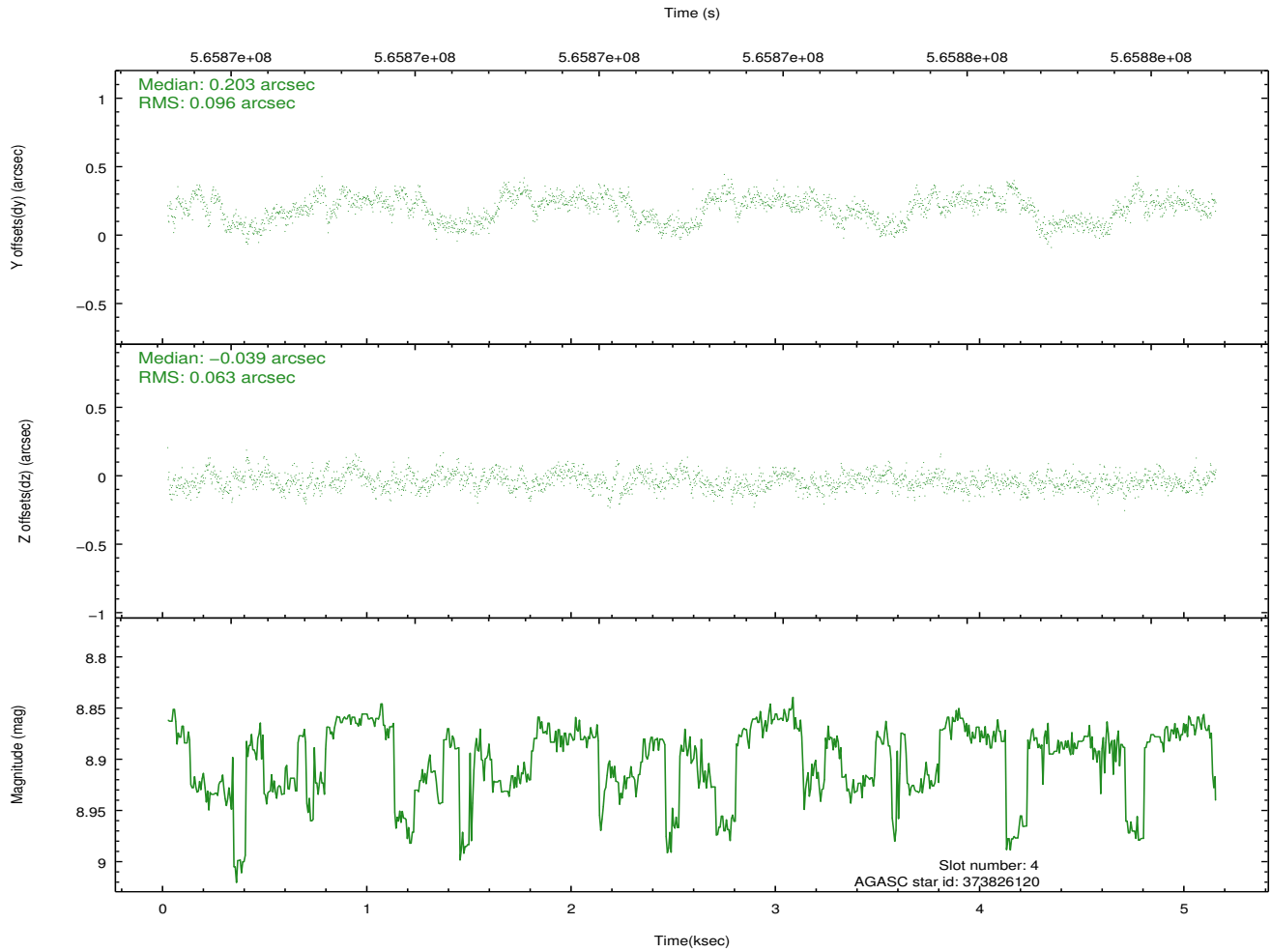
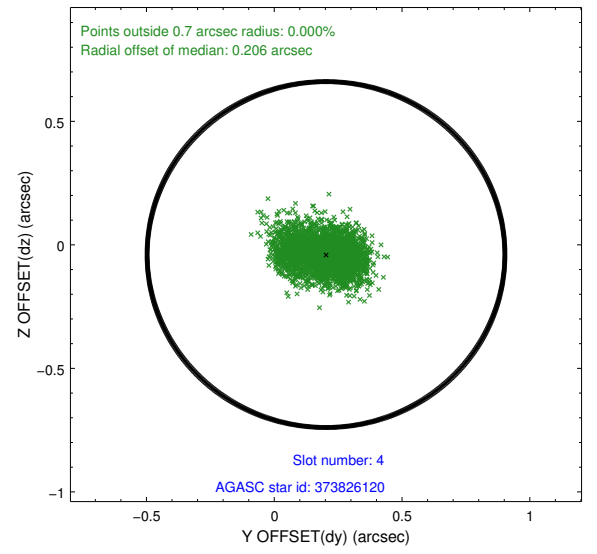
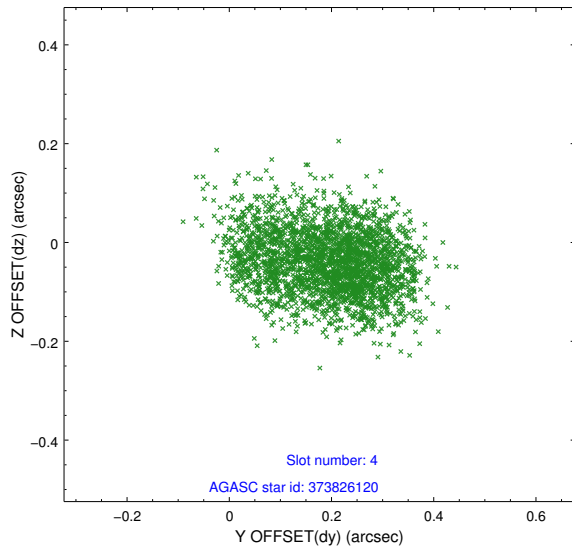
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	1252	-0.067	0.006	0.009	0.014	0.000000	0.000000	922.14	-842.81
1	FID		ACIS-I-2	7.16	1252	-0.270	-0.151	0.007	0.011	0.000000	0.000000	-771.50	-849.94
2	FID		ACIS-I-4	7.20	1252	0.239	0.212	0.006	0.010	0.000000	0.000000	2141.85	1056.55
3	GUIDE	used	373817952	8.73	2504	0.063	-0.194	0.094	0.154	49.913424	40.978510	1630.46	-1548.70
4	GUIDE	used	373826120	8.89	2503	0.203	-0.039	0.124	0.194	49.738165	41.186341	1313.73	-2377.16
5	GUIDE	used	376046208	8.17	2504	-0.162	-0.013	0.092	0.158	51.749247	41.273134	-2226.18	1772.23
6	GUIDE	used	376070440	6.96	2504	-0.116	-0.079	0.089	0.152	51.289107	41.257301	-1421.19	822.79
7	GUIDE	used	376057824	8.32	2500	0.023	0.324	0.096	0.151	50.665569	41.926280	-2317.25	-1971.84

2.4 Star Slots

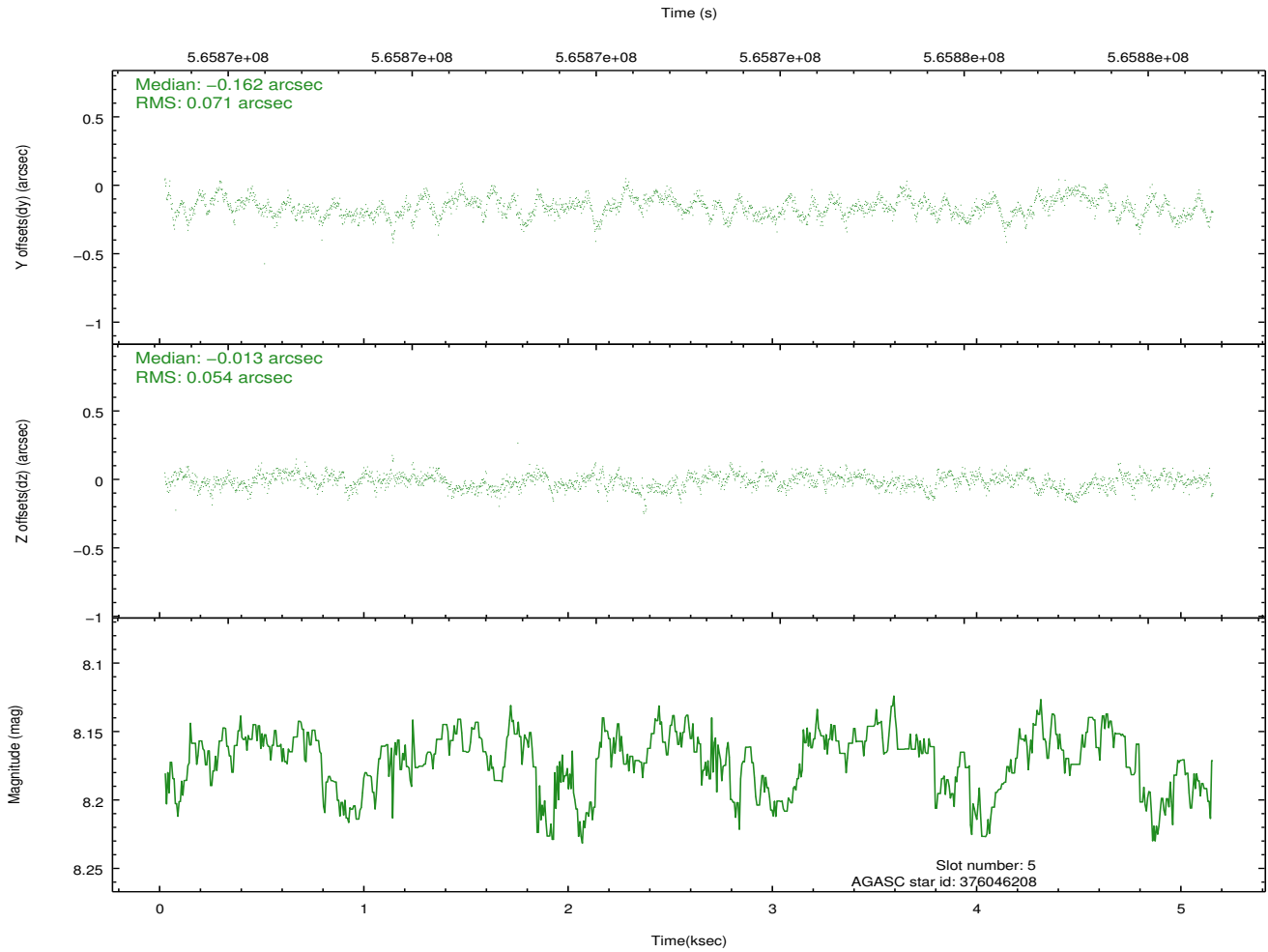
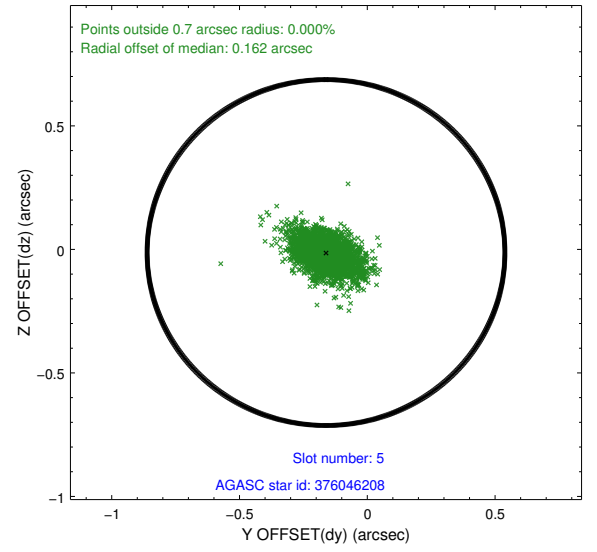
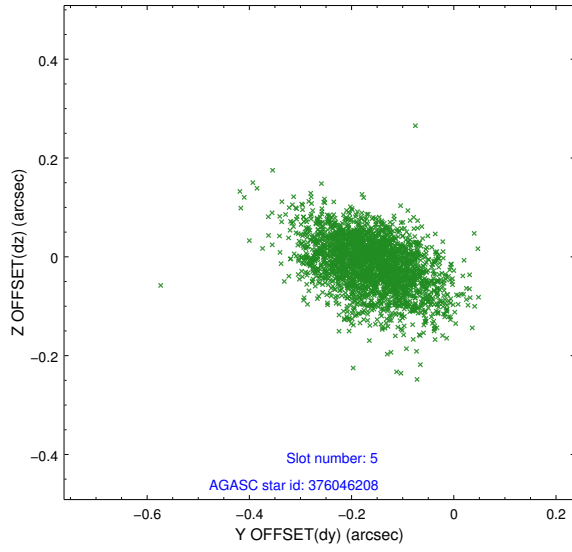
2.4.1 Slot 3



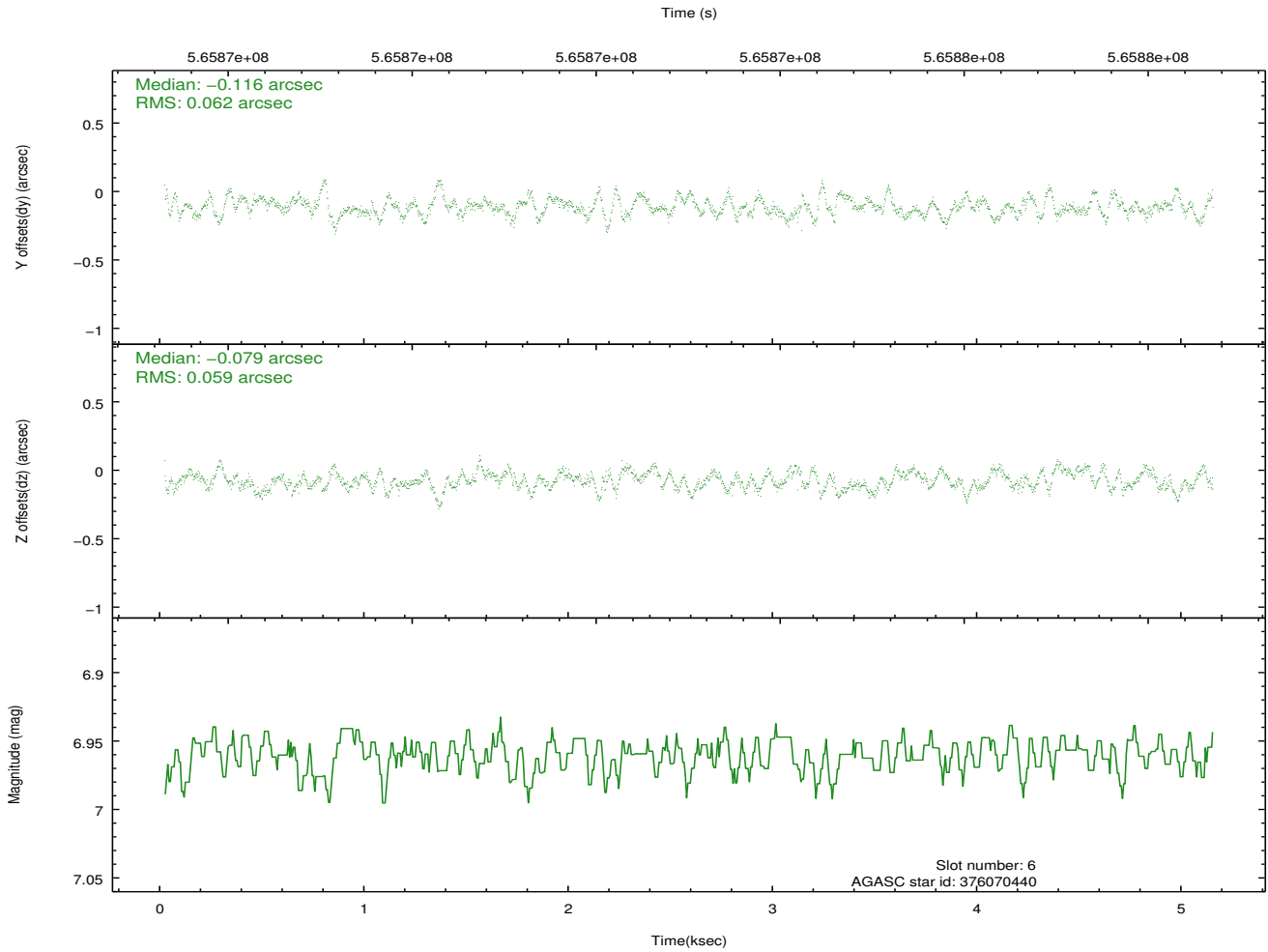
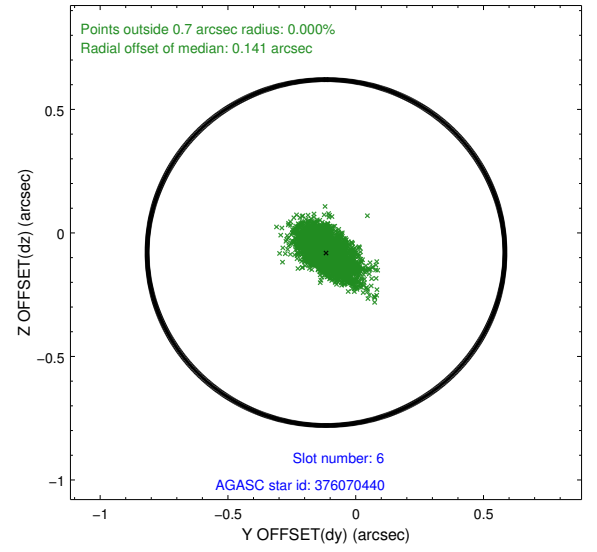
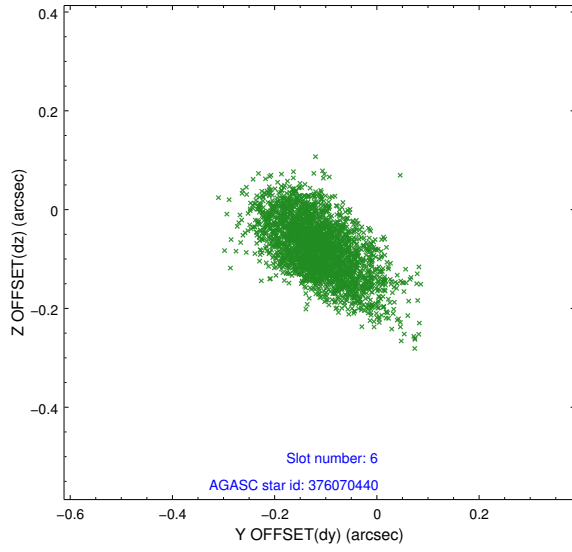
2.4.2 Slot 4



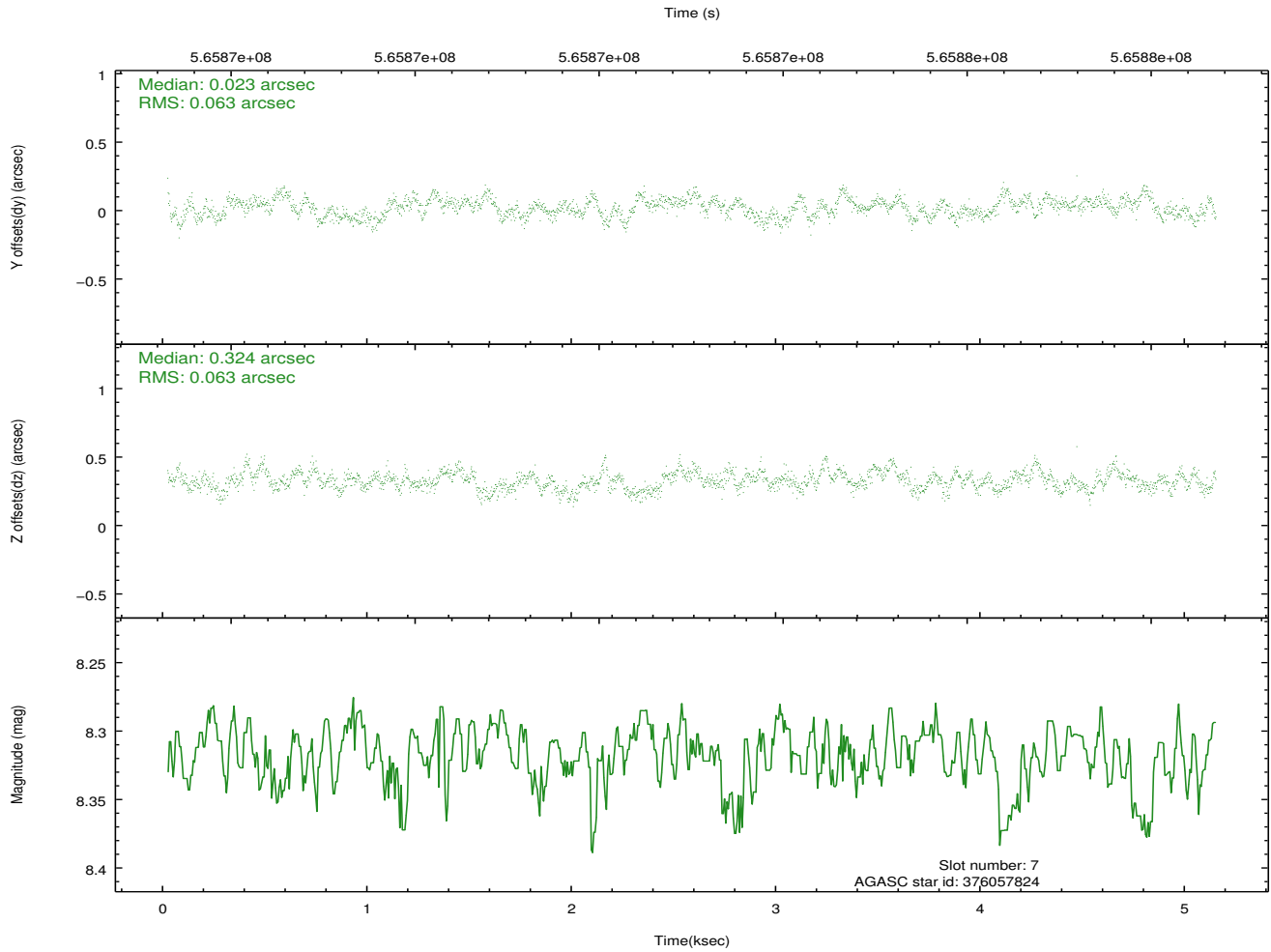
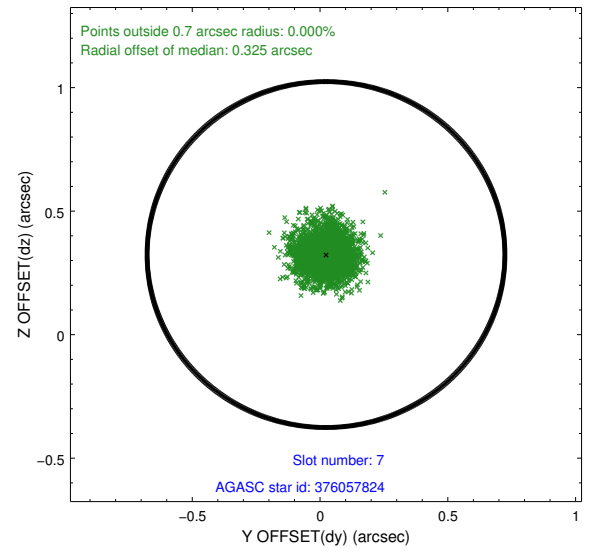
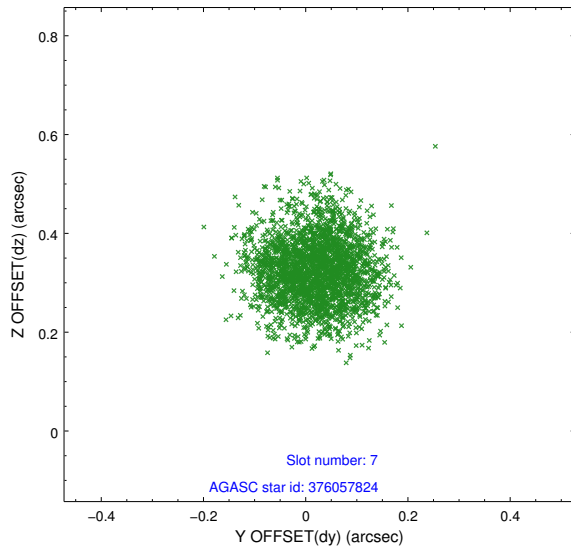
2.4.3 Slot 5



2.4.4 Slot 6

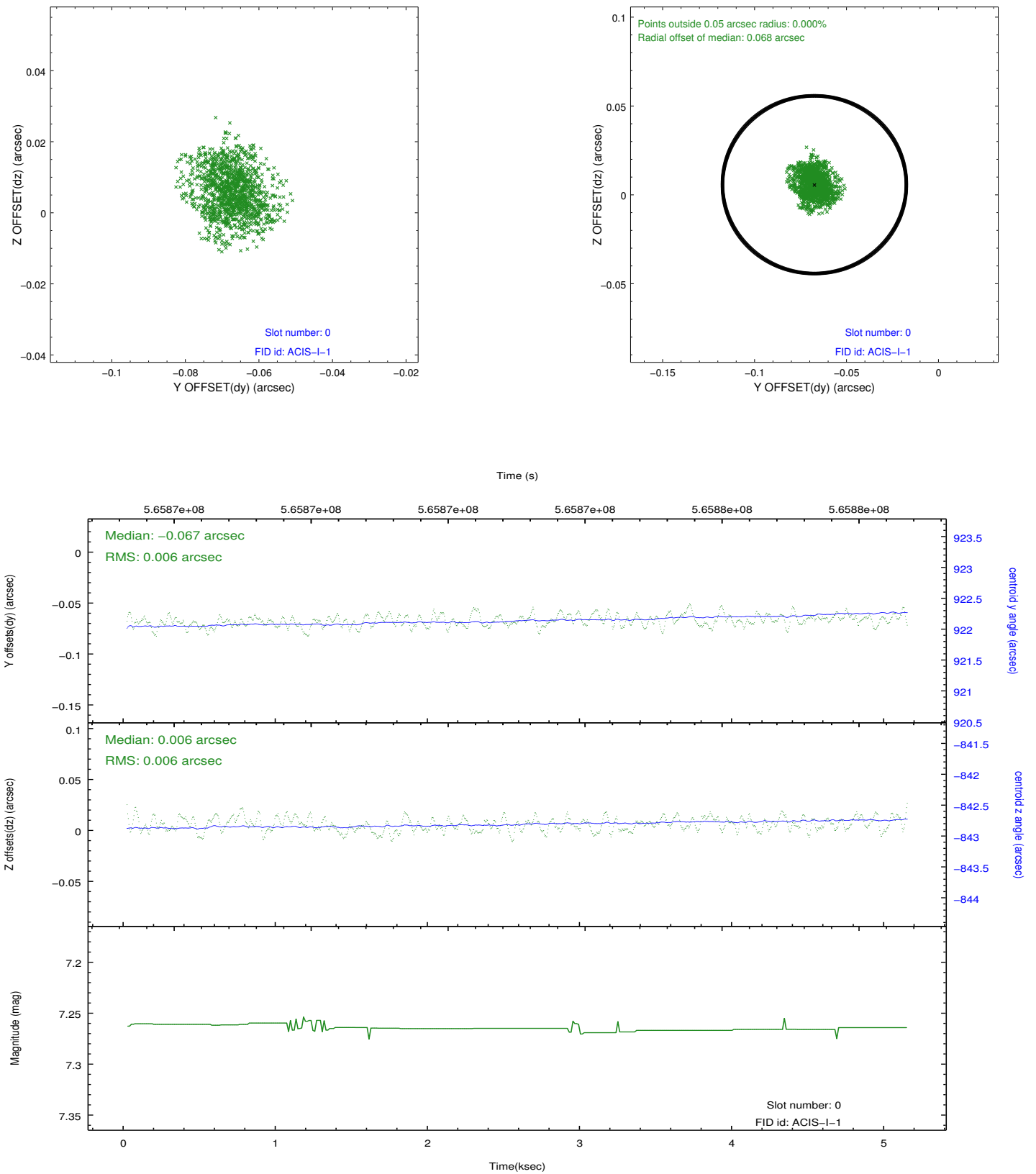


2.4.5 Slot 7

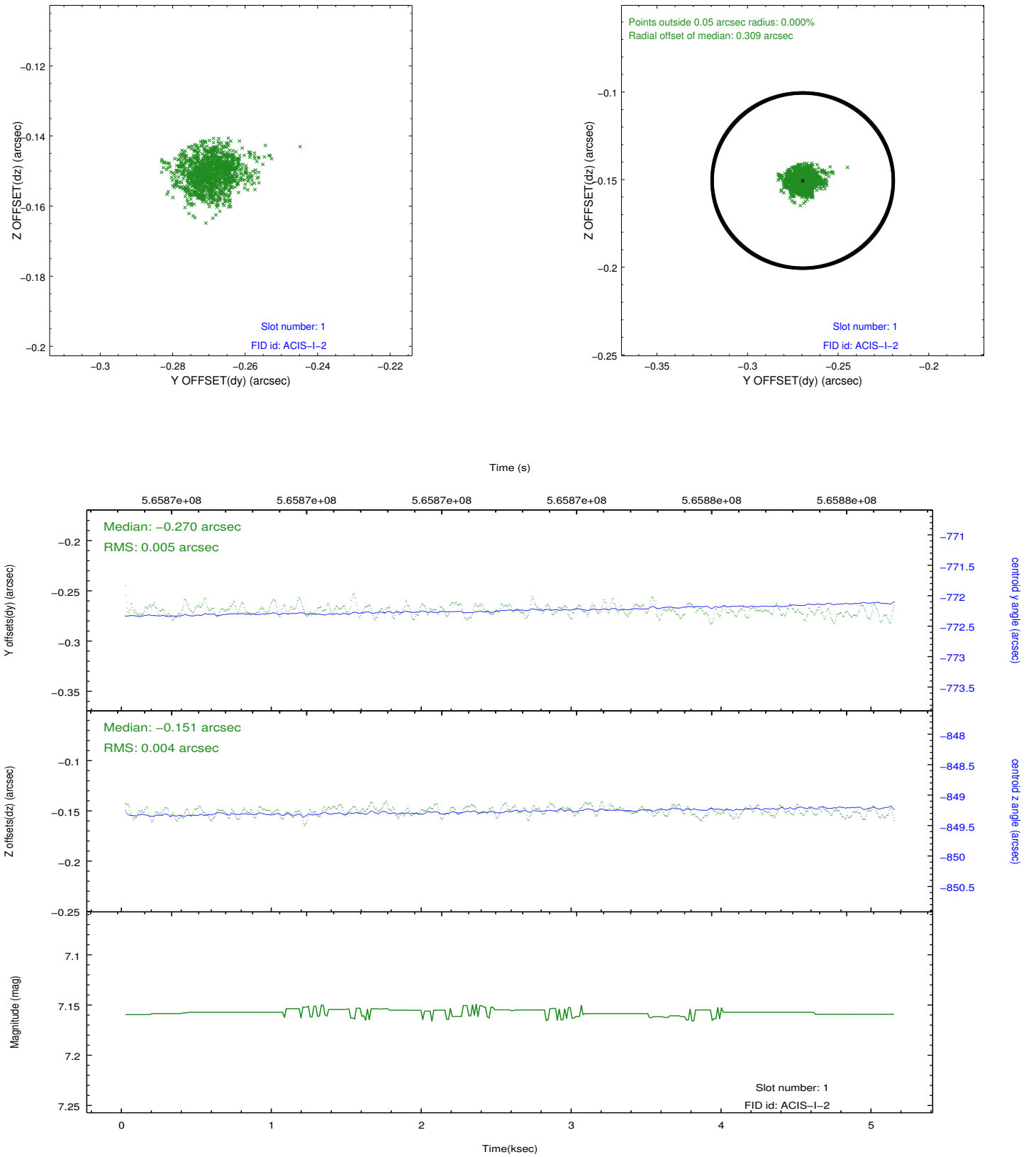


2.5 FID Slots

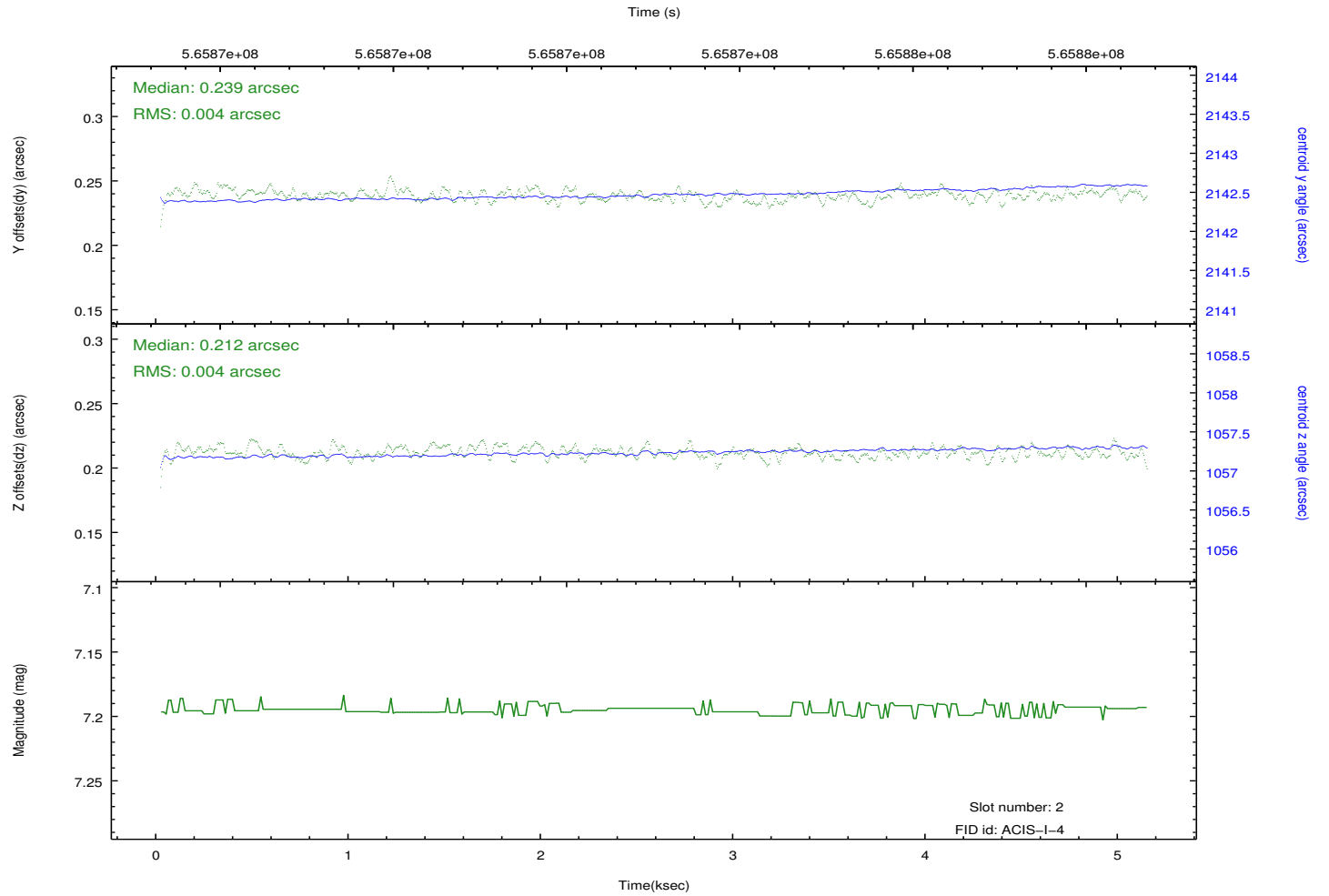
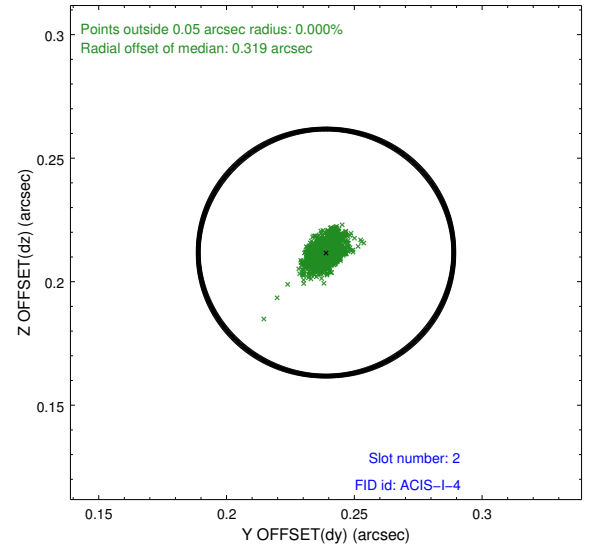
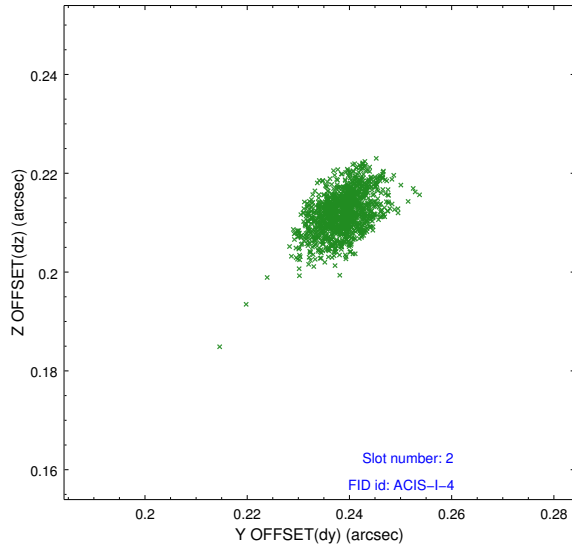
2.5.1 Slot 0



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)	2015.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0747000391483

A.2 Comments