

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18332 - L2 Version 1
Chandra X-Ray Center

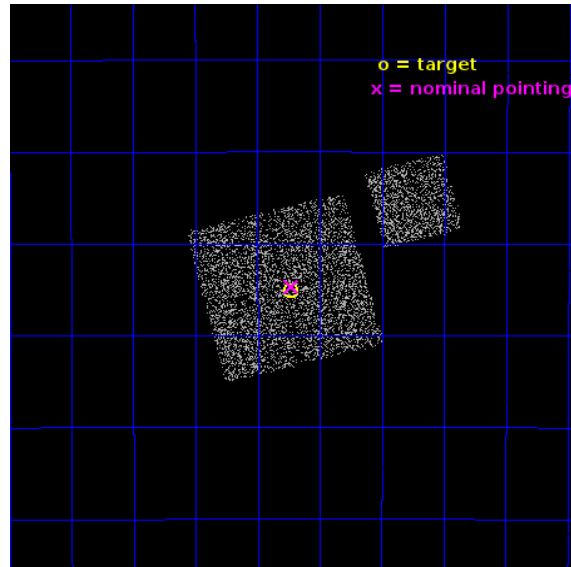
L2 Processing Date : May 22 2016

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1 Front

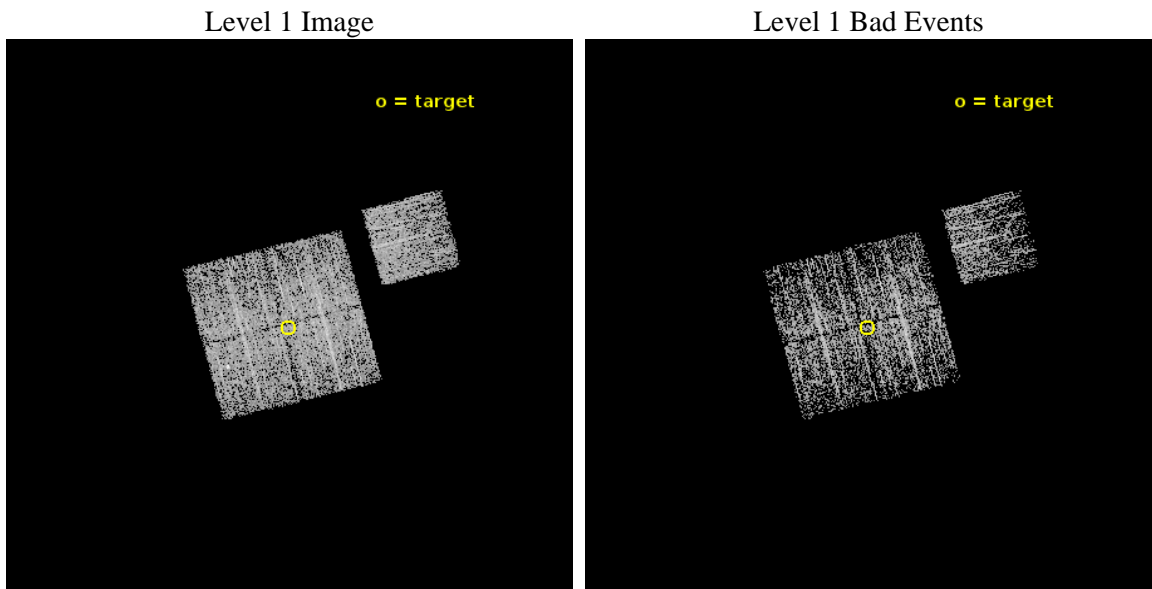
seq_num	300363	Sequence number
obs_id	18332	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.18304	Observer's specified target RA [deg]
dec_targ	-29.75233	Observer's specified target Dec [deg]
ra_nom	266.18197229775	Nominal RA [deg]
dec_nom	-29.745015634064	Nominal Dec [deg]
roll_nom	75.634027156776	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1949.9000151157	Sum of GTIs [s]
livetime	1924.4231359227	Livetime [s]
ontime0	1949.9000151157	Sum of GTIs [s]
ontime1	1949.9000151157	Sum of GTIs [s]
ontime2	1949.9000151157	Sum of GTIs [s]
ontime3	1949.9000151157	Sum of GTIs [s]
ontime6	1949.9000151157	Sum of GTIs [s]
l2events	7351	Number of level 2 events



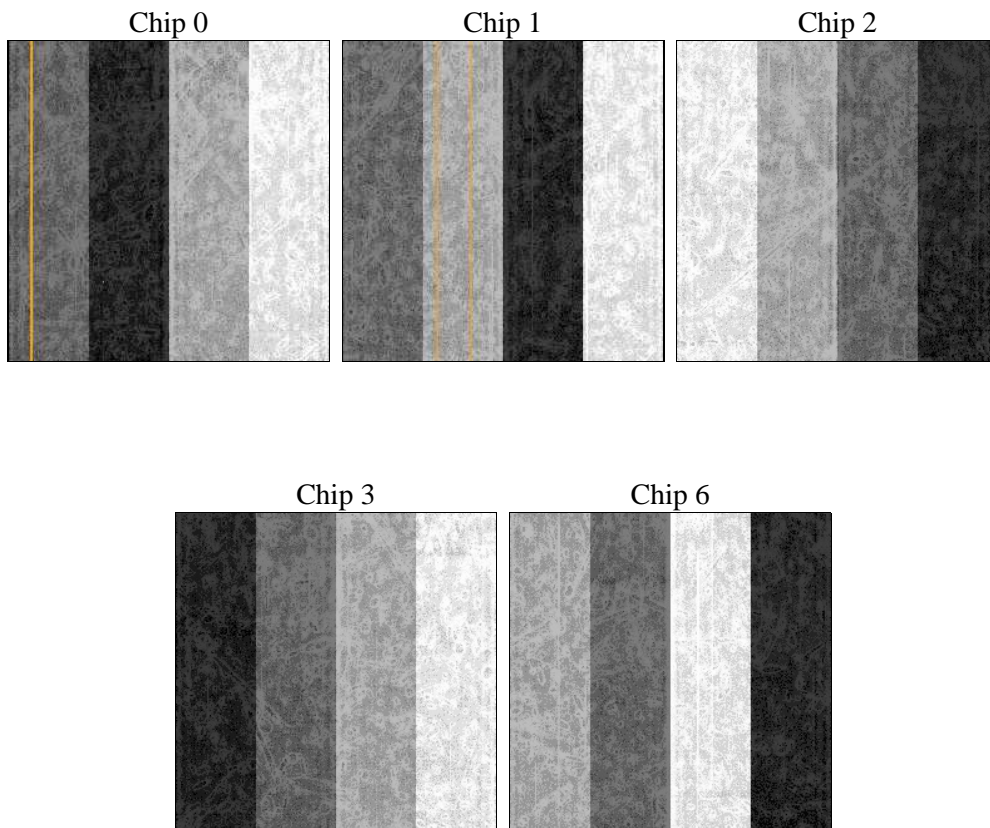
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1949.9000151157	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1949.9000151157	Sum of GTIs [s]
date	2016-05-22T07:33:07	Date and time of file creation	ontime1	1949.9000151157	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1949.9000151157	Sum of GTIs [s]
			ontime3	1949.9000151157	Sum of GTIs [s]
			ontime6	1949.9000151157	Sum of GTIs [s]
			l1events	60323	Number of level 1 events

2.1.4 Events

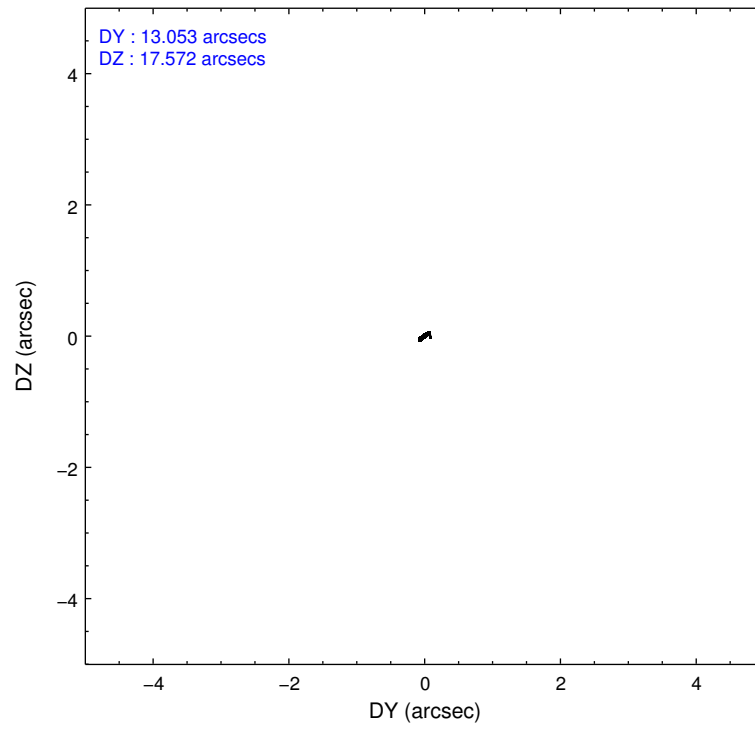
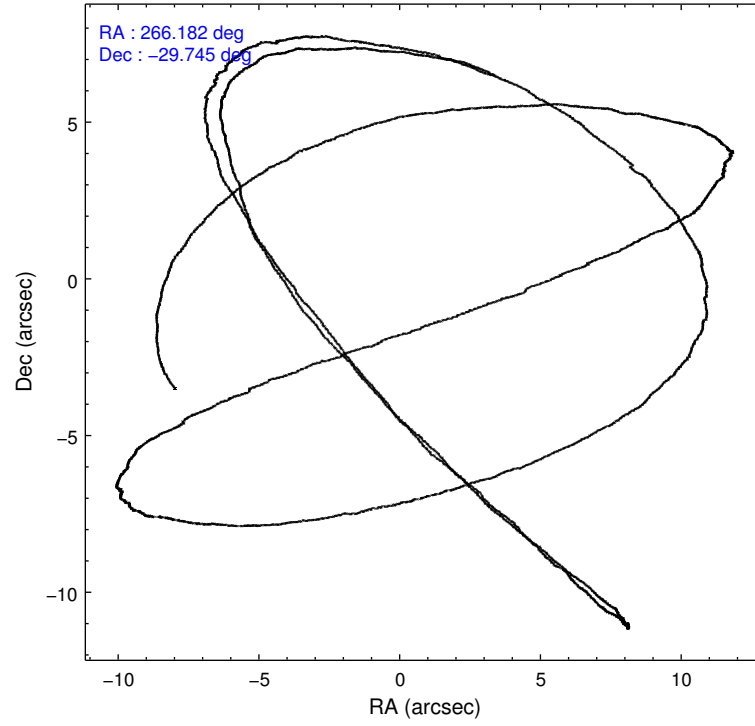
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11625	11501	12417	12916	11864
rejected events	9862	9489	10758	11339	10103
rejected %	84%	82%	86%	87%	85%

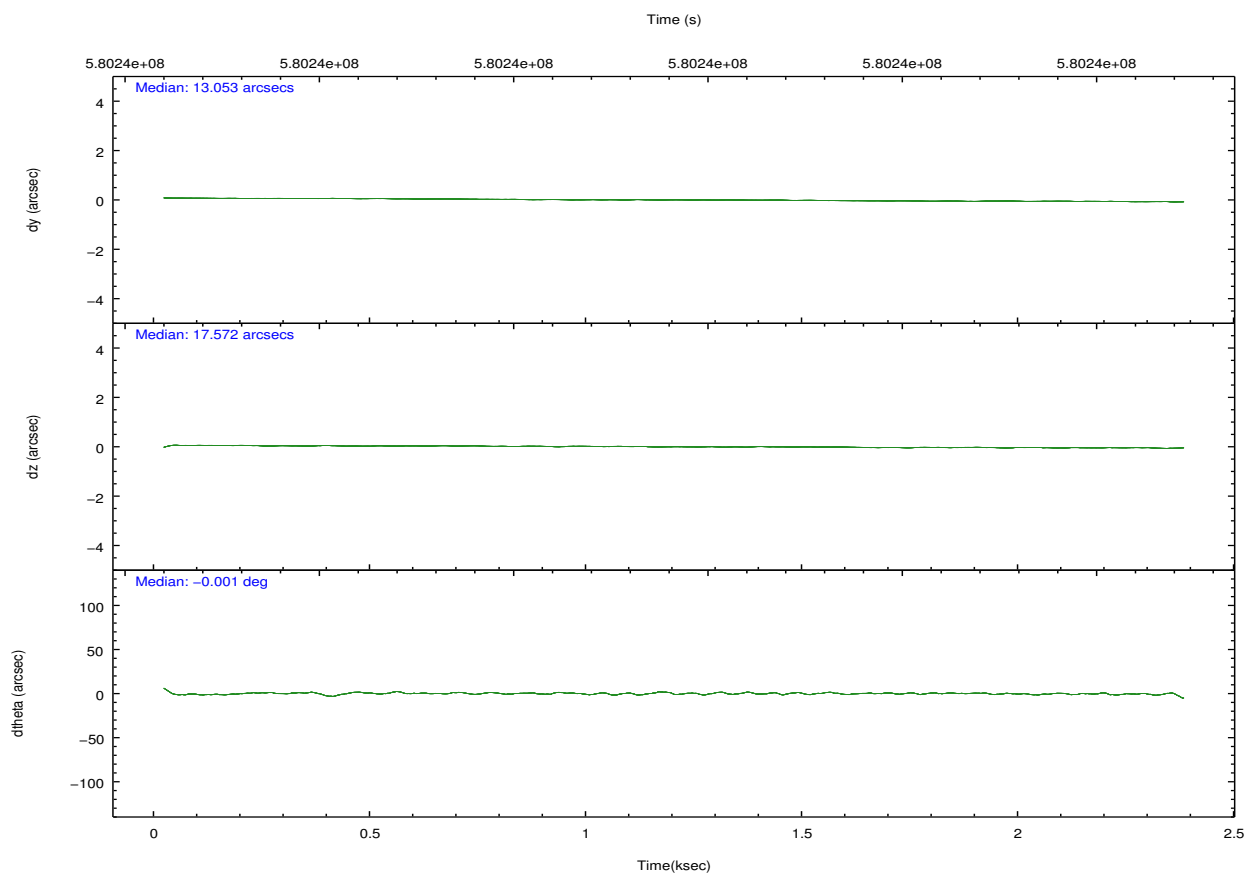
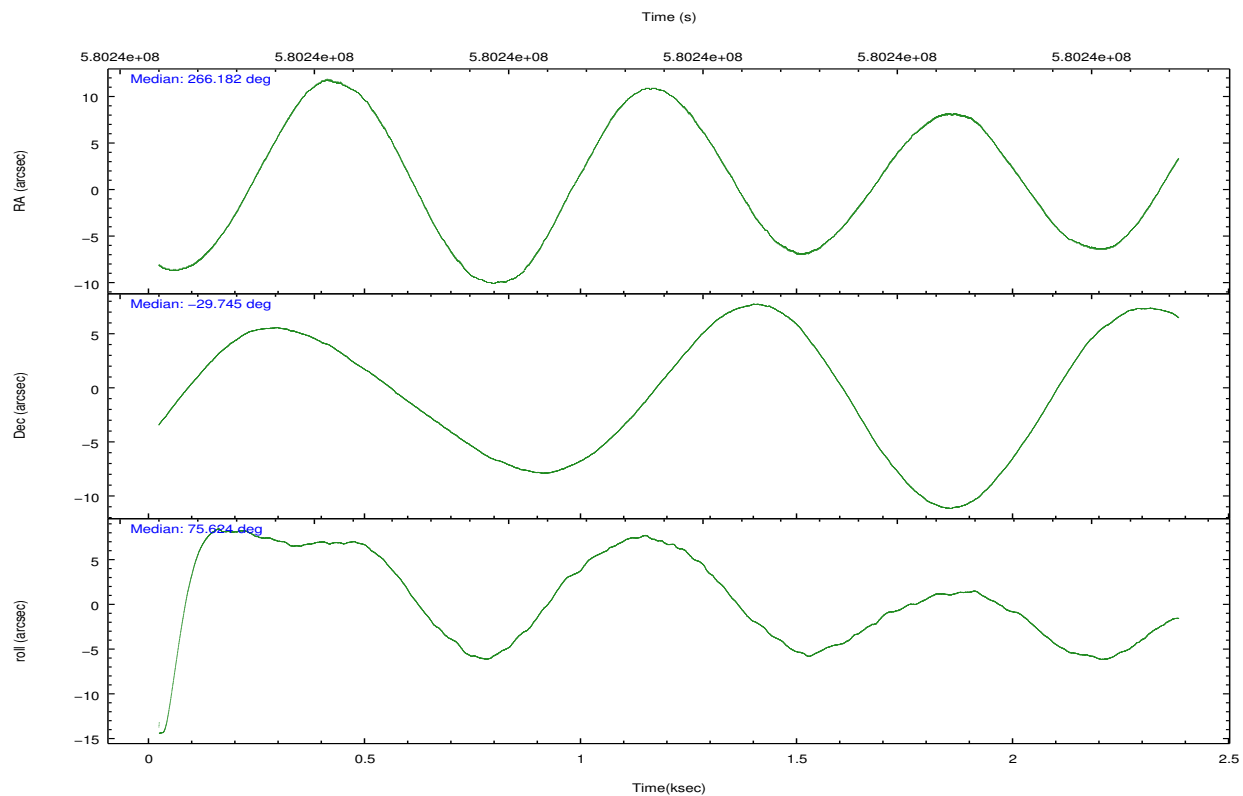
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	757	962	766	694	733
	6%	8%	6%	5%	6%
grade 1 events	7	10	5	8	1
	0%	0%	0%	0%	0%
grade 2 events	374	420	323	308	392
	3%	3%	2%	2%	3%
grade 3 events	152	151	143	121	145
	1%	1%	1%	0%	1%
grade 4 events	157	144	141	157	144
	1%	1%	1%	1%	1%
grade 5 events	522	553	482	615	558
	4%	4%	3%	4%	4%
grade 6 events	327	339	289	305	352
	2%	2%	2%	2%	2%
grade 7 events	9329	8922	10268	10708	9539
	80%	77%	82%	82%	80%

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	266.190851	266.181972297754	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.771773	-29.74501563406432	CCD I3 on	Y	Y
[deg] Pointing Roll	75.429720	75.63402715677613	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)	580241933.184000	580241556.82358	CCD S5 on	N	N
Observation start date	2016-05-21T18:17:45	2016-05-21T18:12:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580244113.184000	580244247.44874	On-chip summing requested	N	N
Observation end date	2016-05-21T18:54:05	2016-05-21T18:57:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



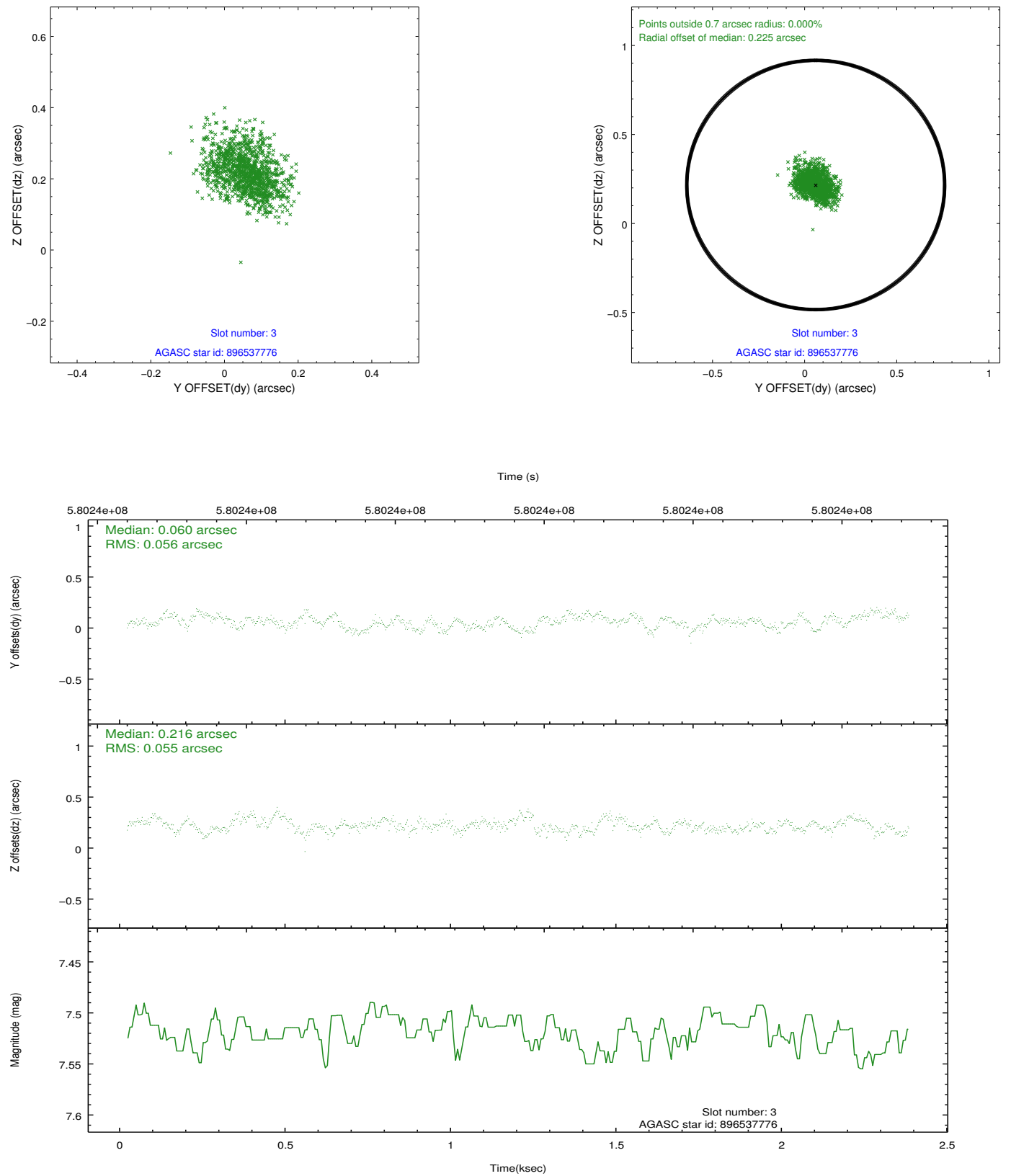


Slot Statistics

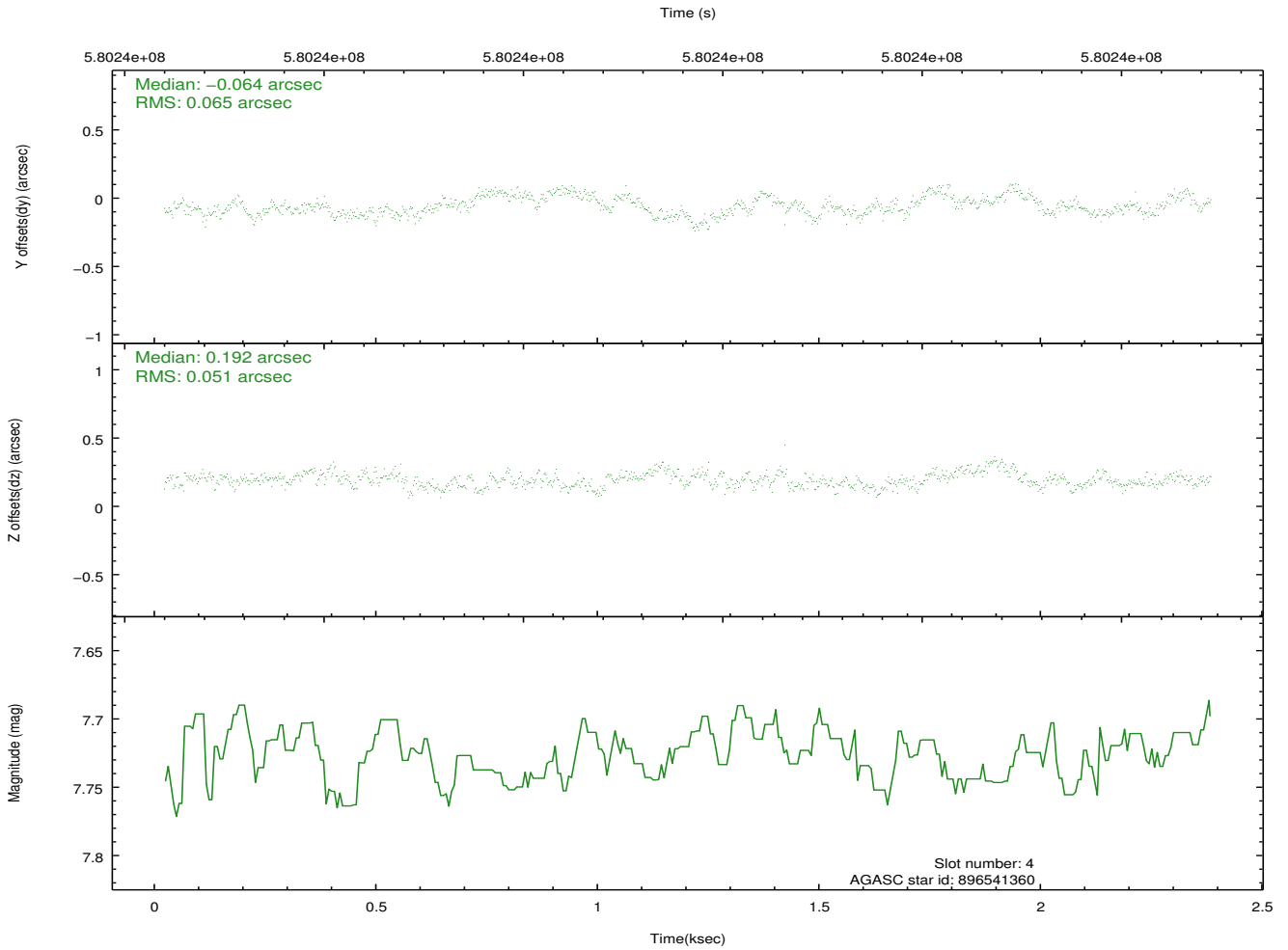
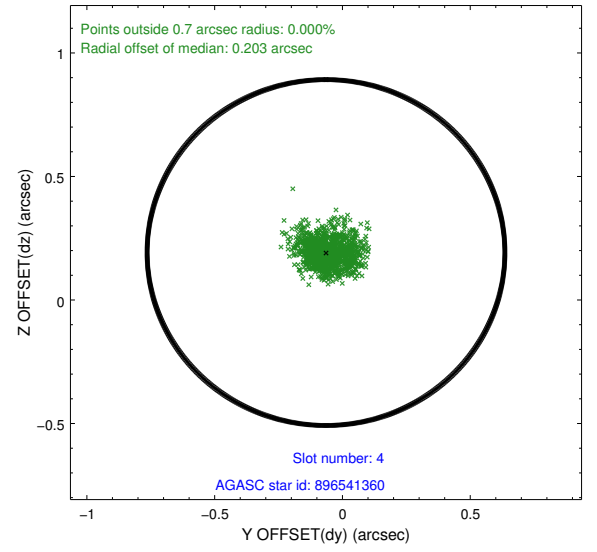
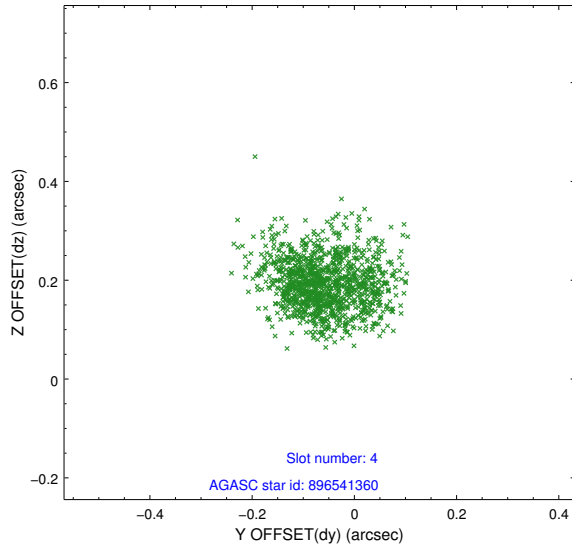
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	576	-0.024	-0.026	0.008	0.014	0.000000	0.000000	926.41	-841.29
1	FID		ACIS-I-2	7.15	576	-0.334	-0.151	0.006	0.010	0.000000	0.000000	-766.46	-849.20
2	FID		ACIS-I-4	7.18	576	0.259	0.245	0.006	0.012	0.000000	0.000000	2145.37	1057.36
3	GUIDE	used	896537776	7.52	1153	0.060	0.216	0.084	0.134	266.655684	-29.665673	732.50	-1312.25
4	GUIDE	used	896541360	7.73	1153	-0.064	0.192	0.088	0.143	266.684478	-29.453744	1494.54	-1211.77
5	GUIDE	used	966791536	9.30	1153	0.171	-0.204	0.142	0.261	265.423122	-30.013043	-1449.79	2093.62
6	GUIDE	used	966924920	8.06	1153	-0.008	0.096	0.098	0.160	265.875401	-30.176961	-1661.84	583.85
7	GUIDE	used	896540808	7.48	1151	-0.170	-0.288	0.110	0.166	265.985401	-29.308604	1448.78	1043.38

2.4 Star Slots

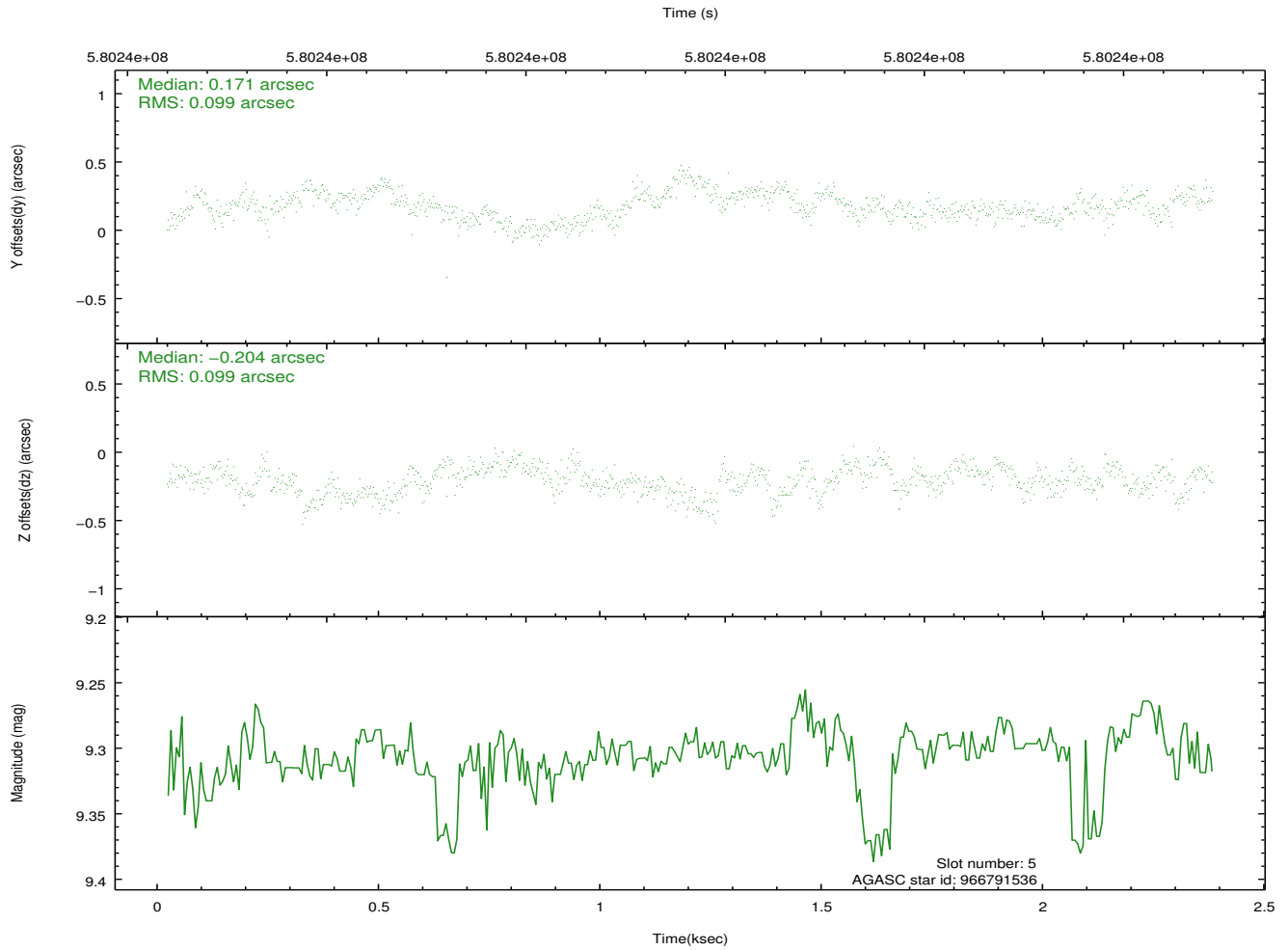
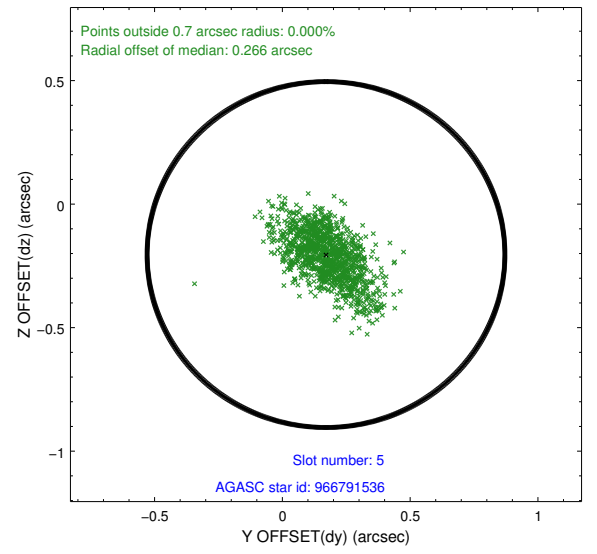
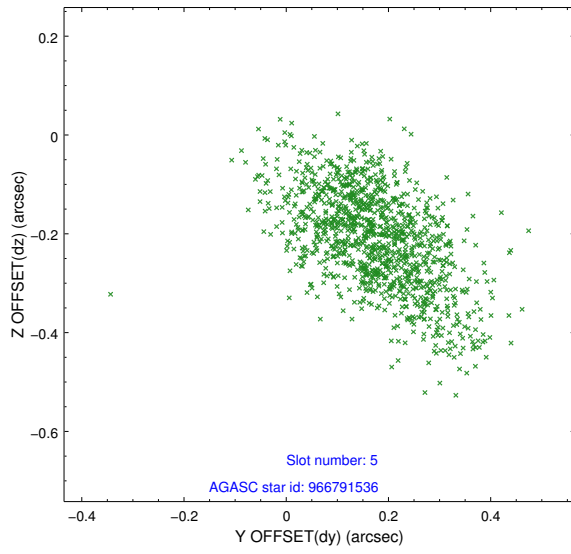
2.4.1 Slot 3



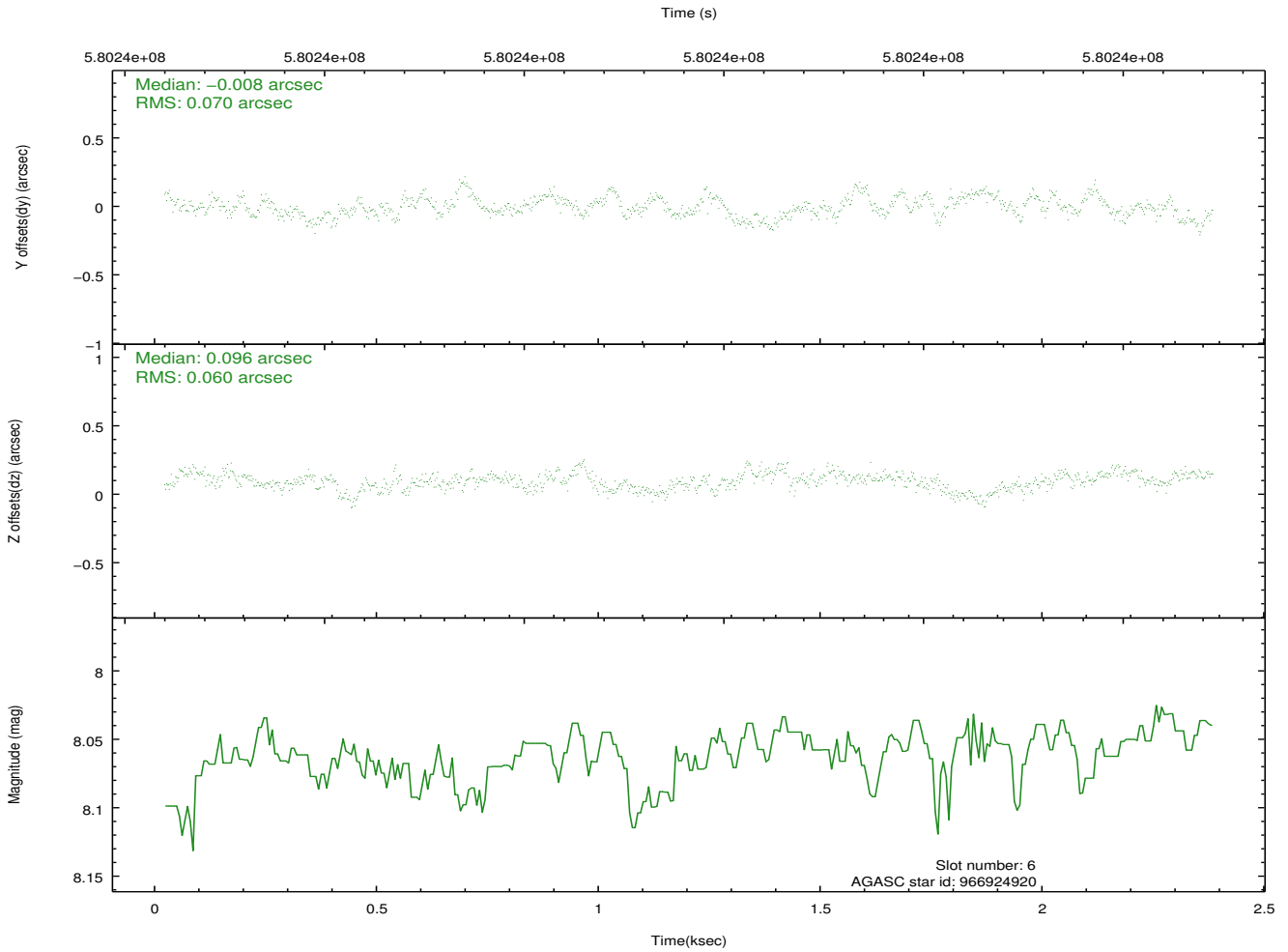
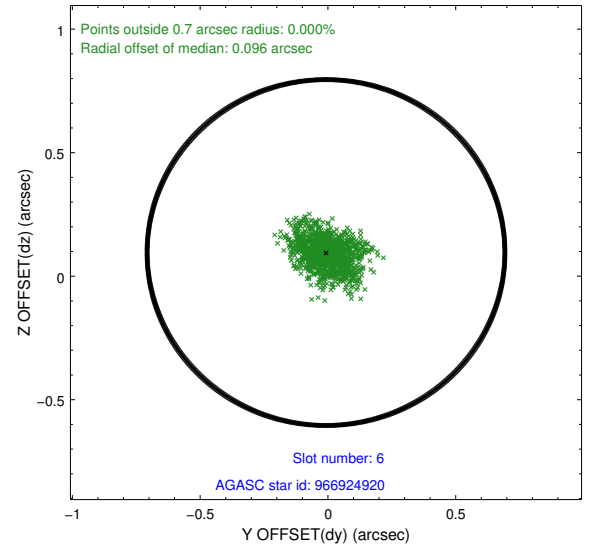
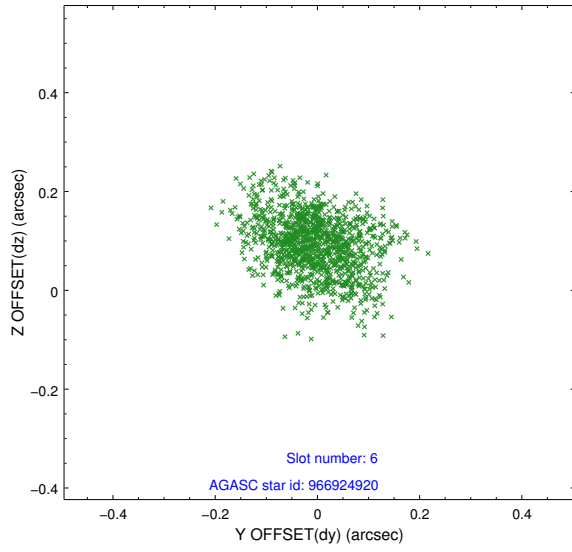
2.4.2 Slot 4



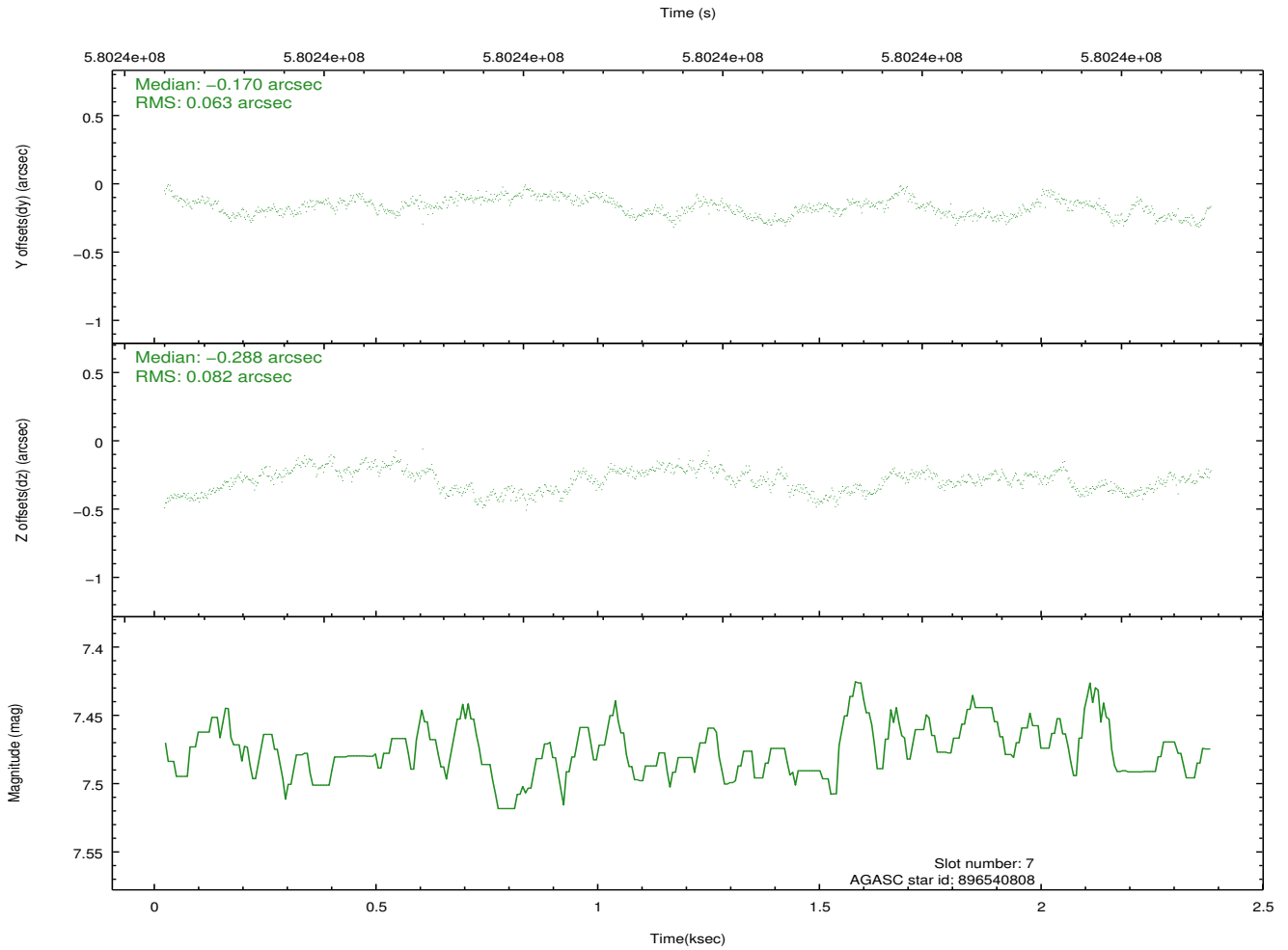
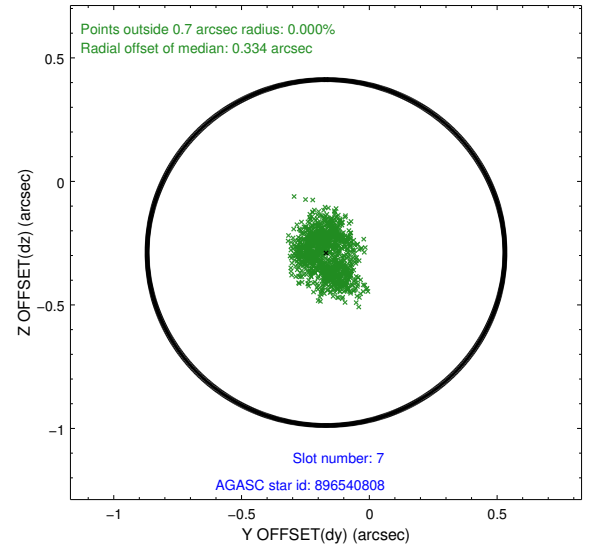
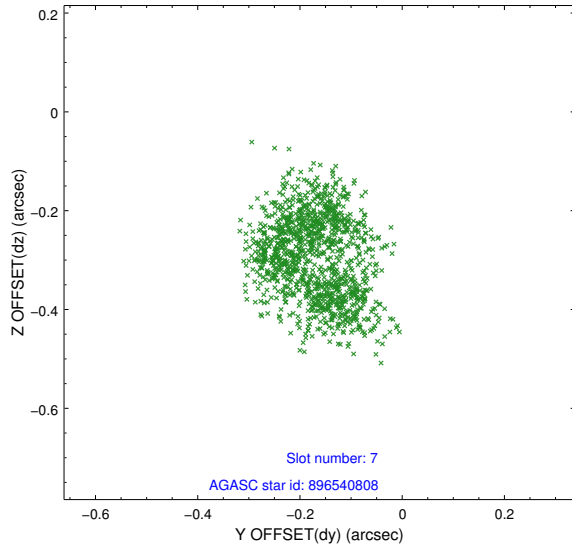
2.4.3 Slot 5



2.4.4 Slot 6

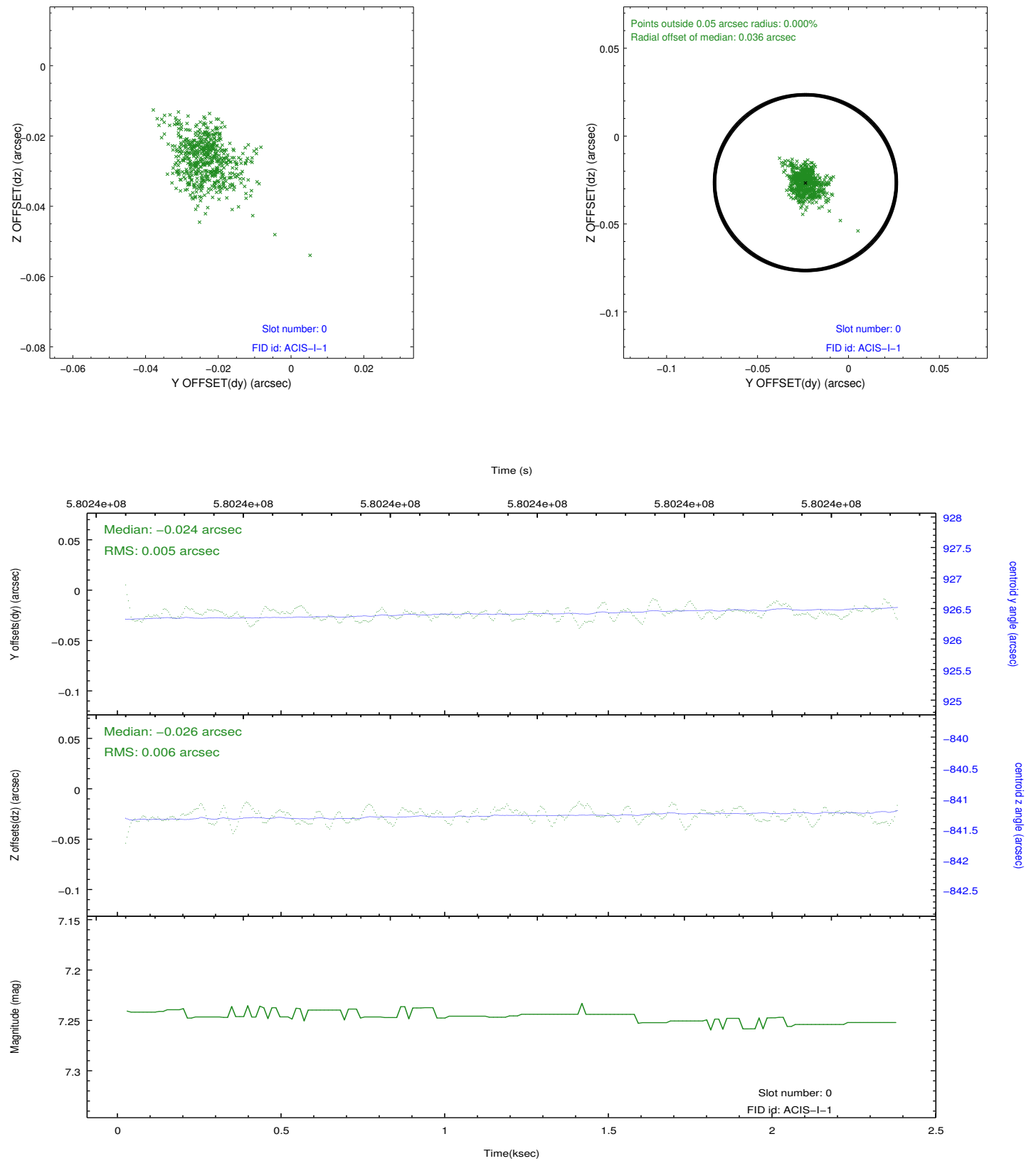


2.4.5 Slot 7

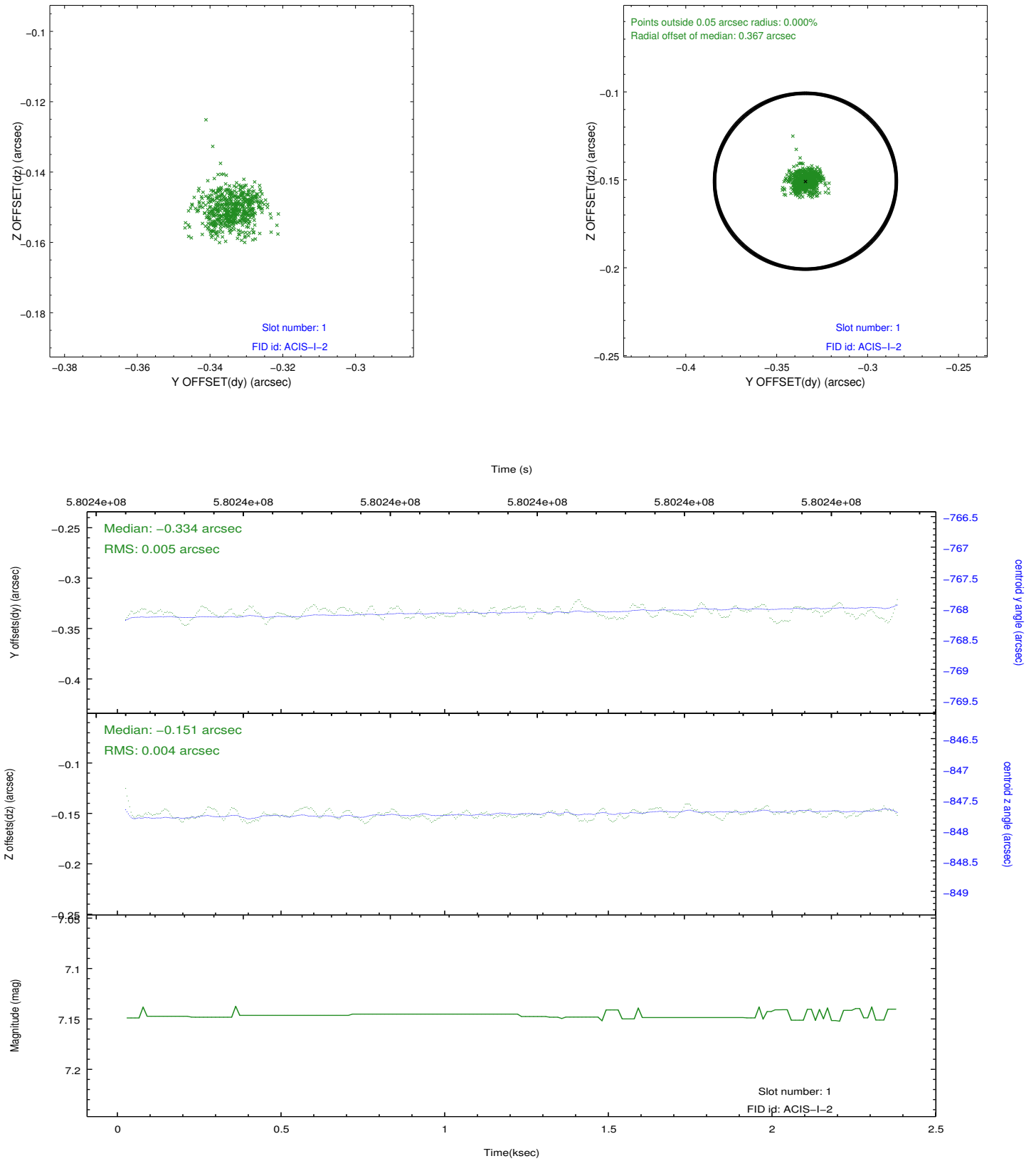


2.5 FID Slots

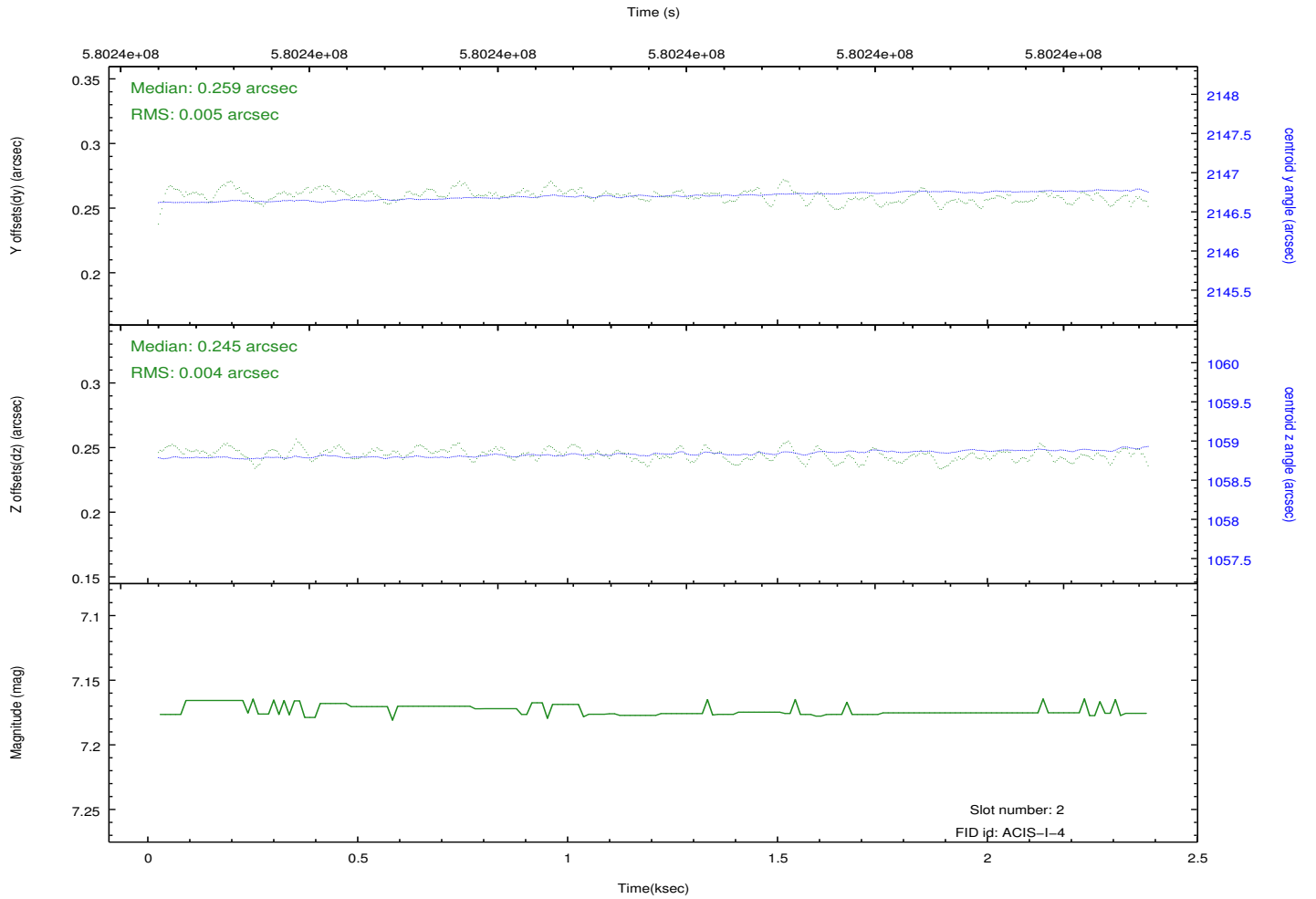
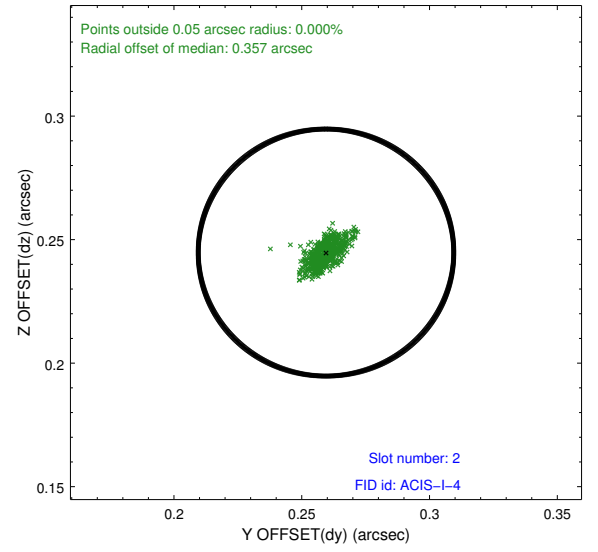
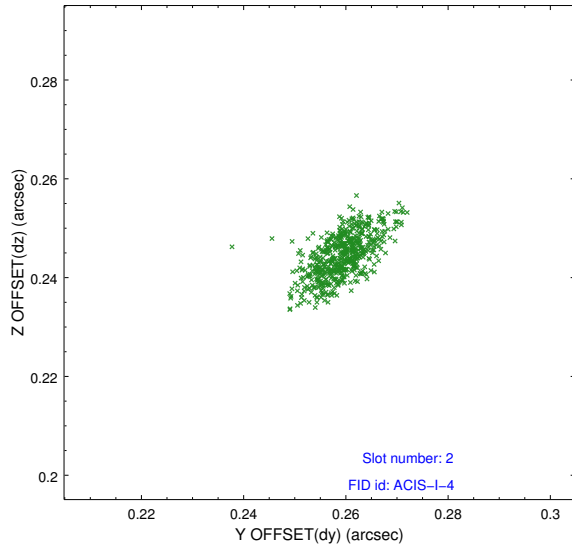
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9499000151157

A.2 Comments