

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18330 - L2 Version 1
Chandra X-Ray Center

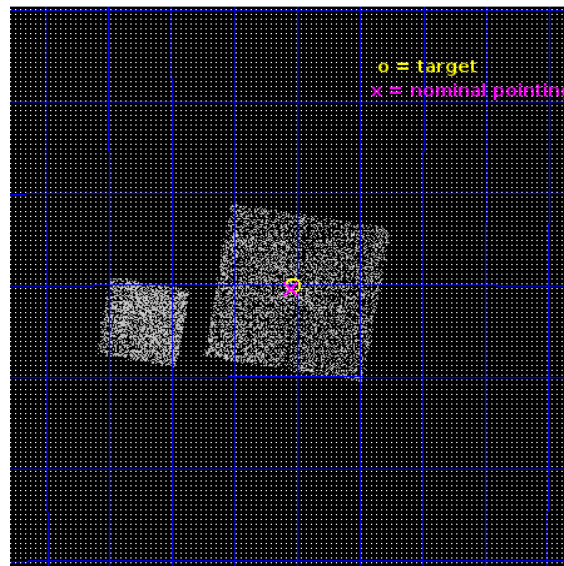
L2 Processing Date : Jul 15 2016

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1 Front

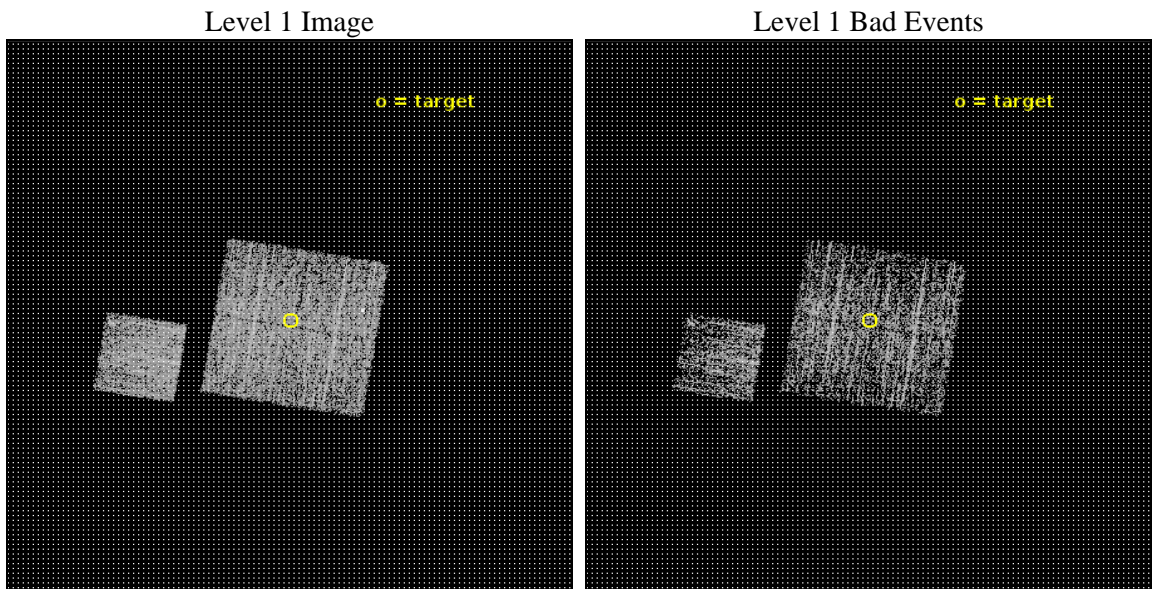
seq_num	300361	Sequence number
obs_id	18330	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.25725	Observer's specified target RA [deg]
dec_targ	-28.83488	Observer's specified target Dec [deg]
ra_nom	266.26136155281	Nominal RA [deg]
dec_nom	-28.840425068897	Nominal Dec [deg]
roll_nom	279.53905830072	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.7656246424	Sum of GTIs [s]
livetime	1930.2121069427	Livetime [s]
ontime0	1952.5014344454	Sum of GTIs [s]
ontime1	1955.6835446358	Sum of GTIs [s]
ontime2	1955.7245846987	Sum of GTIs [s]
ontime3	1955.7656246424	Sum of GTIs [s]
ontime6	1955.6014646292	Sum of GTIs [s]
l2events	9976	Number of level 2 events



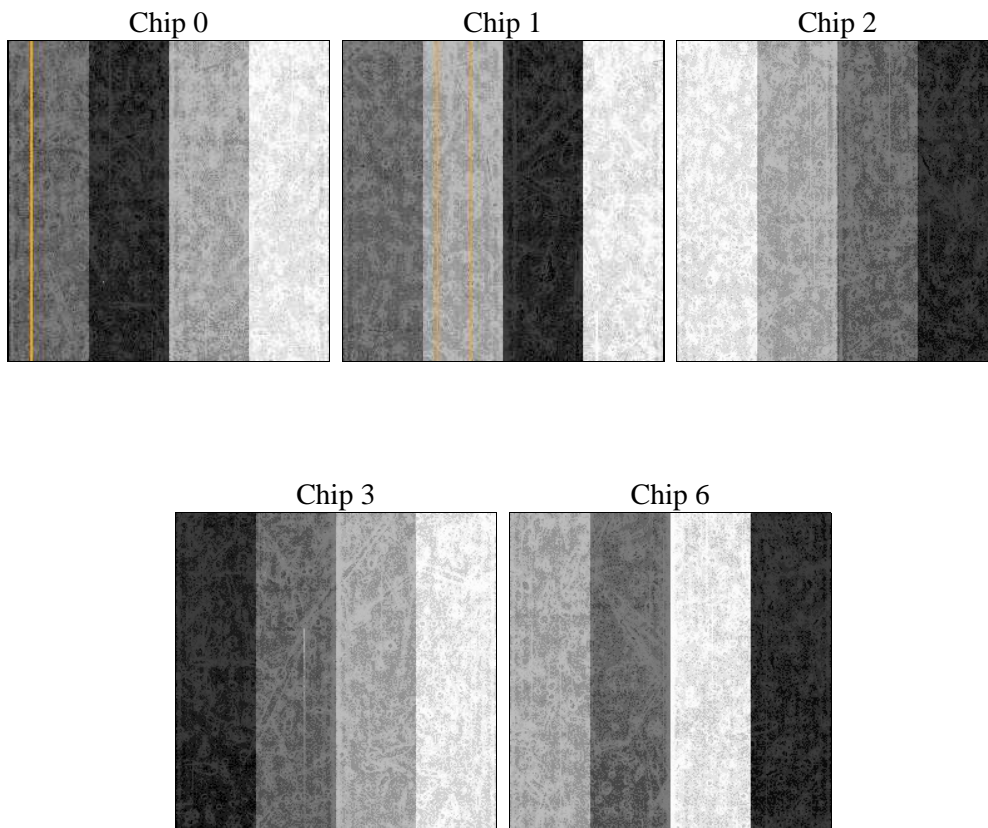
2 OBI

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	10.5	Processing system revision	ontime	1955.7656246424	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1952.5014344454	Sum of GTIs [s]
date	2016-07-16T03:28:08	Date and time of file creation	ontime1	1955.6835446358	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.7245846987	Sum of GTIs [s]
			ontime3	1955.7656246424	Sum of GTIs [s]
			ontime6	1955.6014646292	Sum of GTIs [s]
			l1events	61296	Number of level 1 events

2.1.4 Events

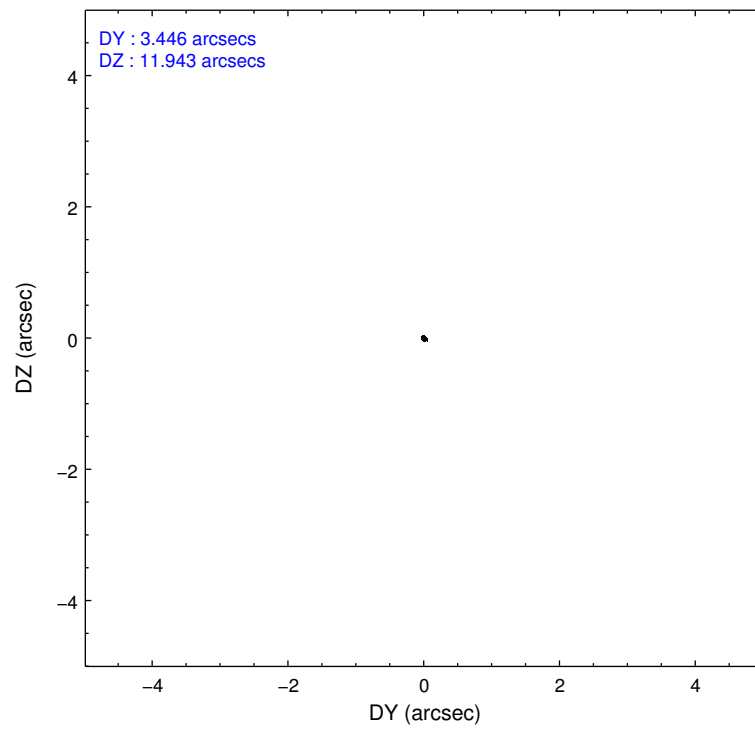
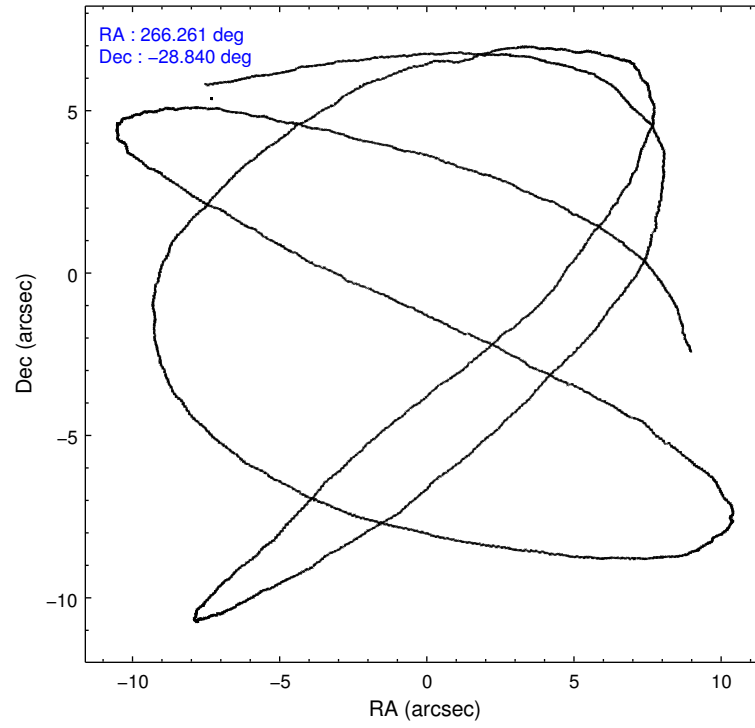
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11286	11945	13032	11260	13773
rejected events	9492	9595	10700	9421	10264
rejected %	84%	80%	82%	83%	74%

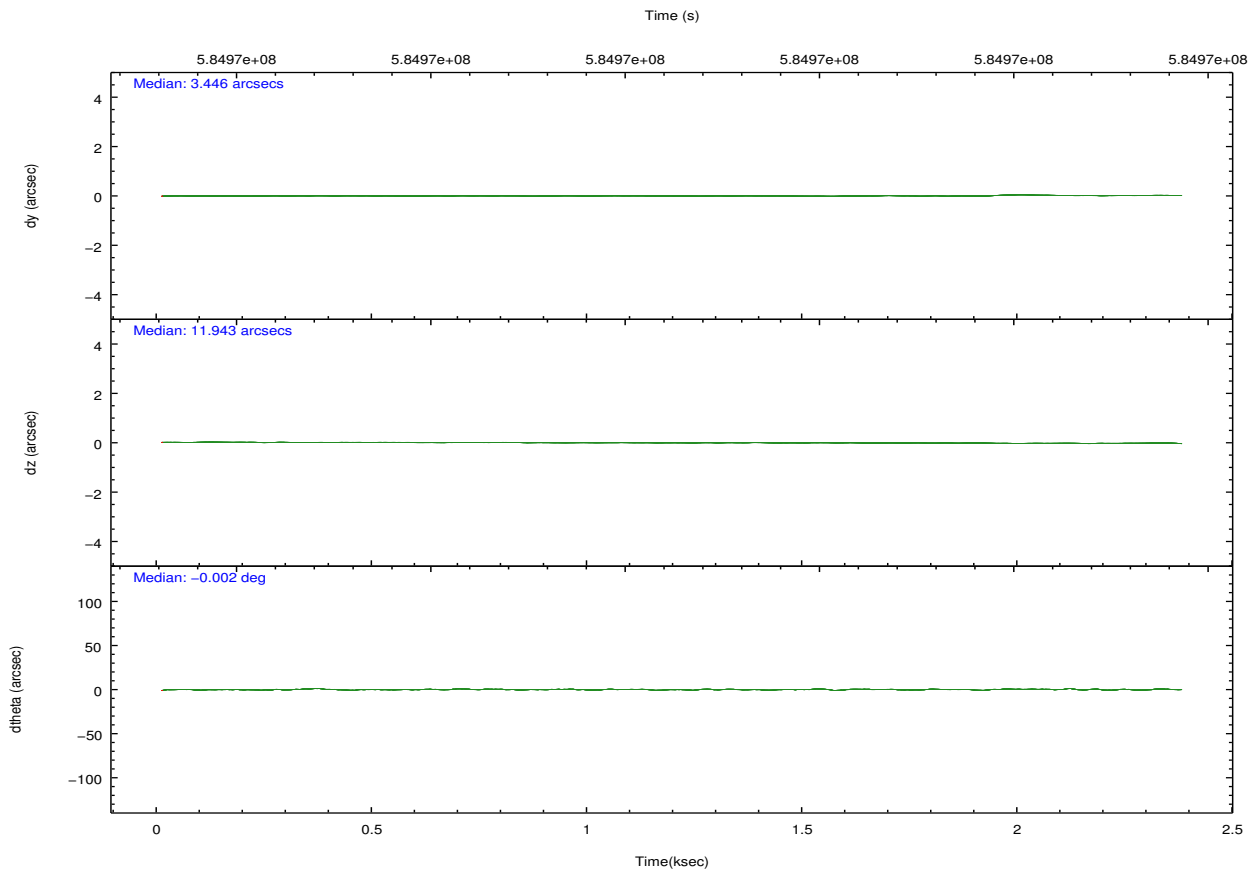
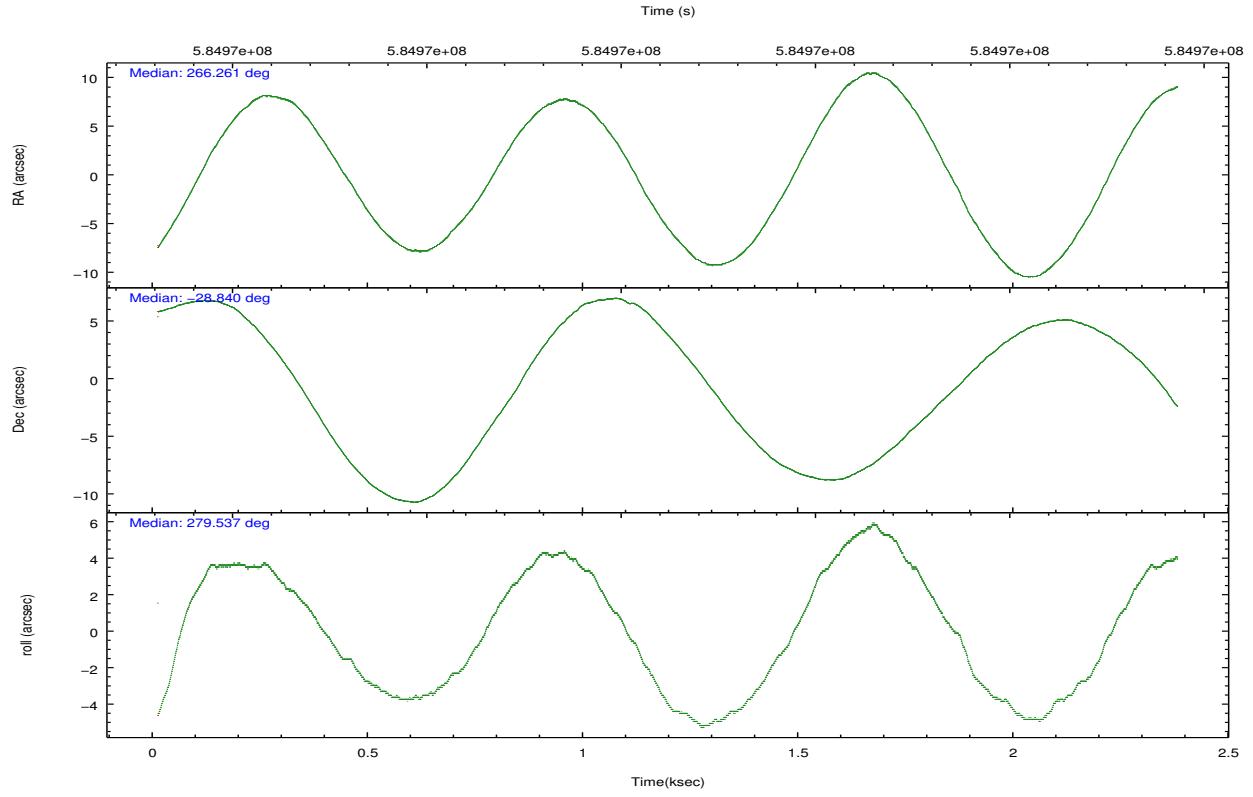
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	736	1299	1194	859	2006
	6%	10%	9%	7%	14%
grade 1 events	5	15	10	9	16
	0%	0%	0%	0%	0%
grade 2 events	381	381	441	366	627
	3%	3%	3%	3%	4%
grade 3 events	158	155	193	146	206
	1%	1%	1%	1%	1%
grade 4 events	172	152	160	165	199
	1%	1%	1%	1%	1%
grade 5 events	512	535	458	555	549
	4%	4%	3%	4%	3%
grade 6 events	350	365	348	305	483
	3%	3%	2%	2%	3%
grade 7 events	8972	9043	10228	8855	9687
	79%	75%	78%	78%	70%

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	266.241138	266.2613615528094	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.819430	-28.84042506889723	CCD I3 on	Y	Y
[deg] Pointing Roll	279.320613	279.5390583007209	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)	584968140.184000	584967764.4443901	CCD S5 on	N	N
Observation start date	2016-07-15T11:07:52	2016-07-15T11:02:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584970320.184000	584970703.6320601	On-chip summing requested	N	N
Observation end date	2016-07-15T11:44:12	2016-07-15T11:51:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





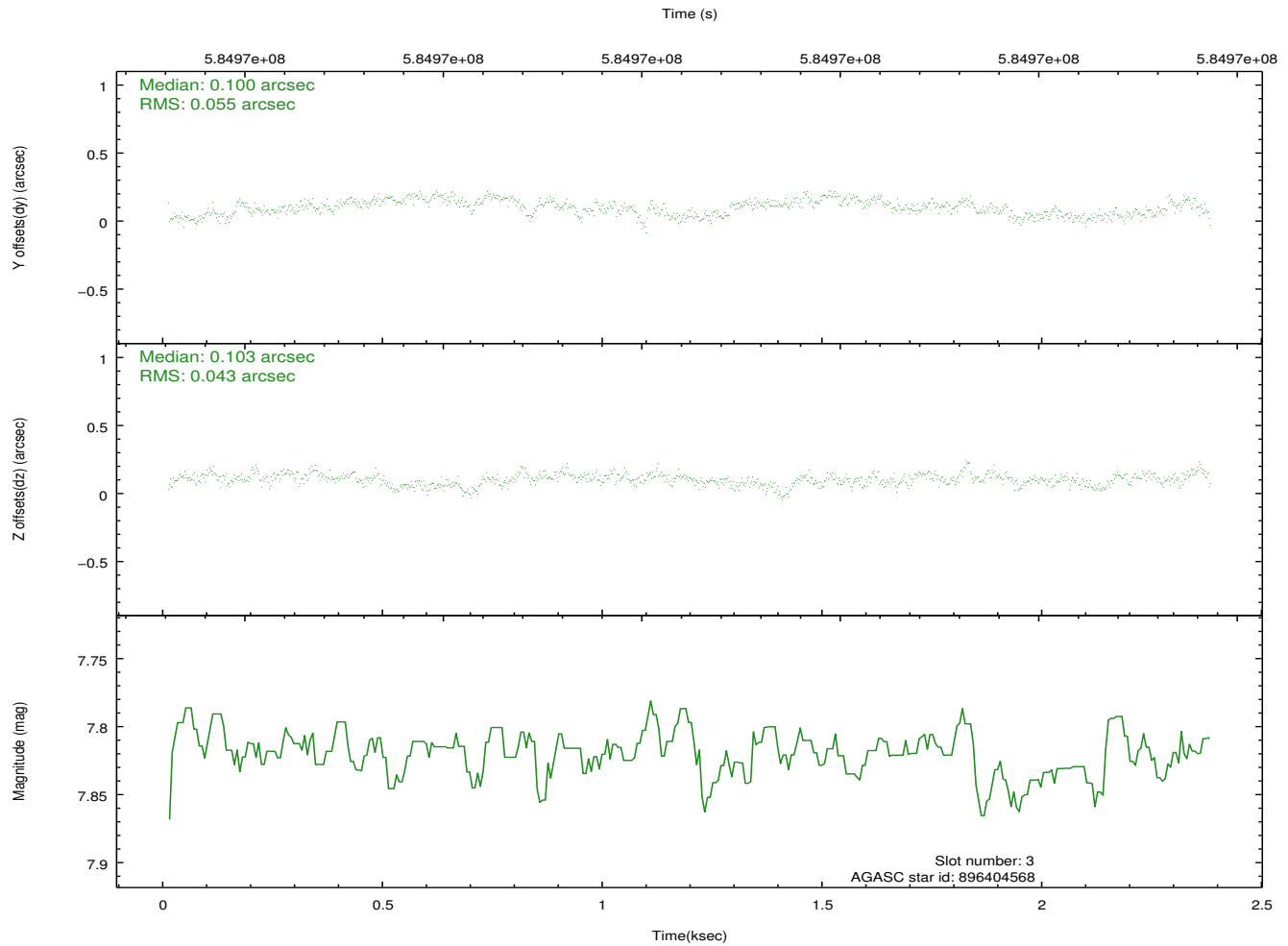
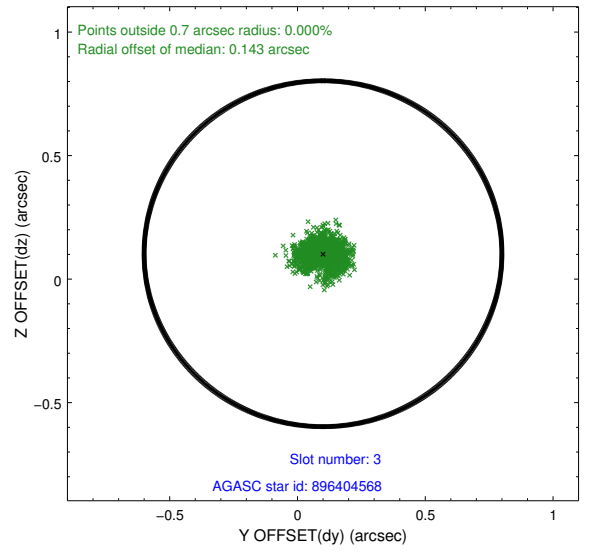
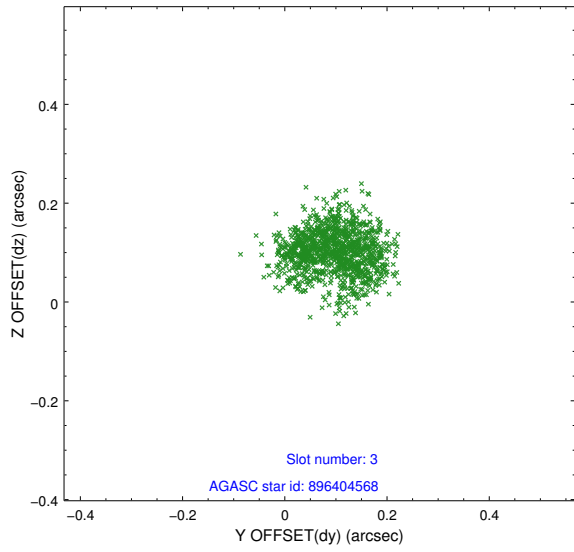
Slot Statistics

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	579	0.123	-0.096	0.006	0.011	0.000000	0.000000	936.46	-835.56
1	FID		ACIS-I-5	7.23	579	-0.254	0.107	0.005	0.010	0.000000	0.000000	-1810.51	1060.74
2	FID		ACIS-I-6	7.24	579	0.040	0.060	0.007	0.011	0.000000	0.000000	398.94	1708.32
3	GUIDE	used	896404568	7.82	1156	0.100	0.103	0.077	0.115	265.687293	-28.431080	-1658.36	-1504.64
4	GUIDE	used	896533888	7.00	1157	-0.141	-0.186	0.067	0.106	266.666434	-29.392757	2254.65	980.14
5	GUIDE	used	896538696	6.77	1157	-0.164	-0.183	0.068	0.105	266.298470	-28.325572	-1722.10	467.65
6	GUIDE	used	896540808	7.49	1157	0.028	0.072	0.067	0.108	265.985401	-29.308604	1608.28	-1077.27
7	GUIDE	used	896402656	8.80	1156	0.175	0.198	0.097	0.147	265.739192	-28.230753	-2343.14	-1229.43

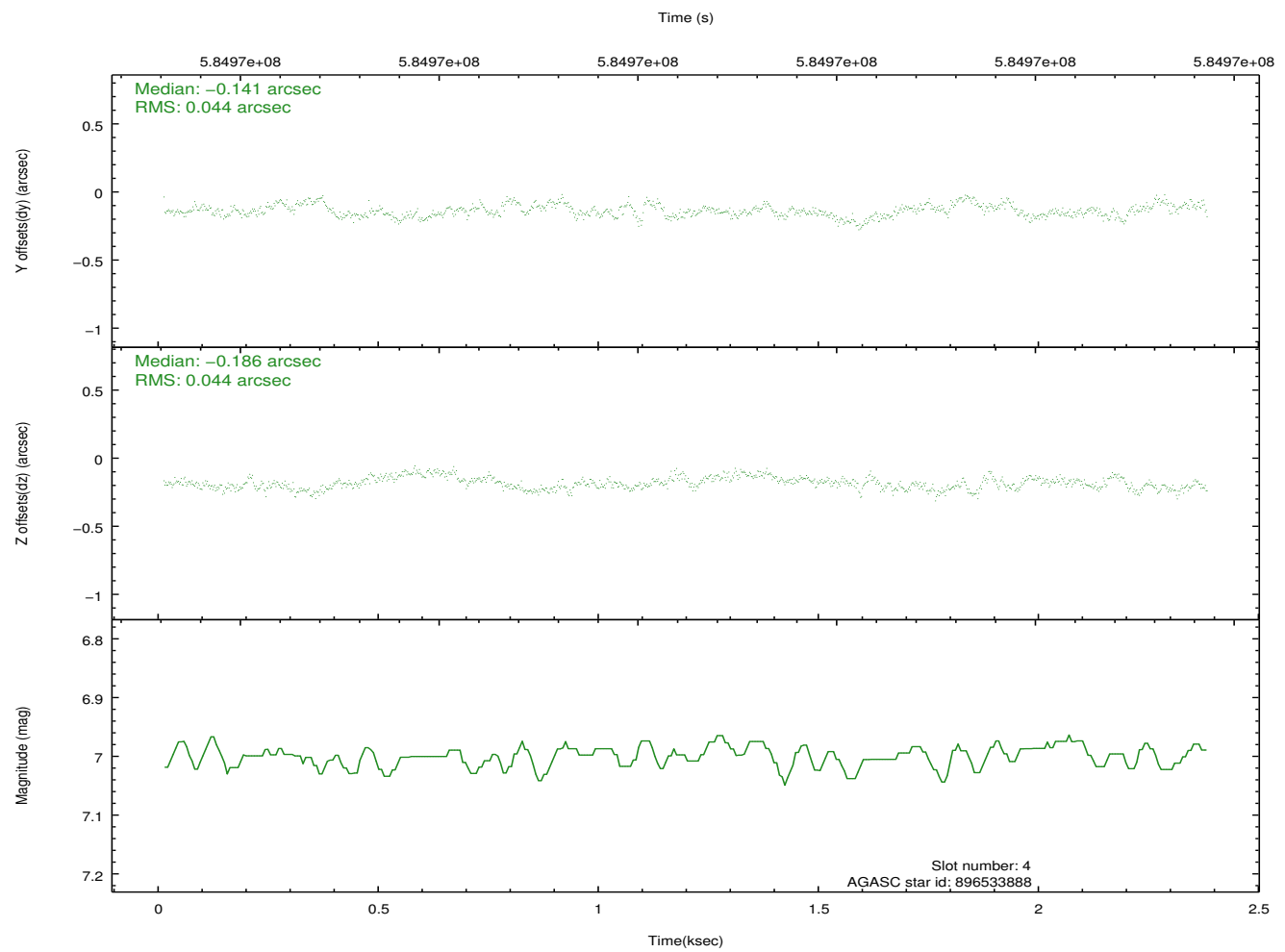
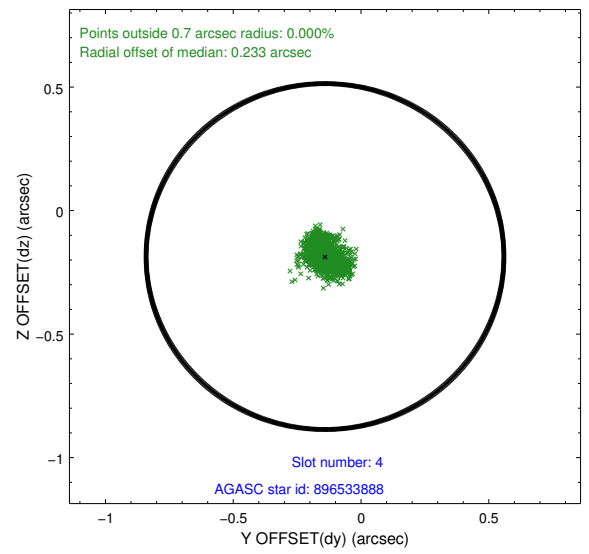
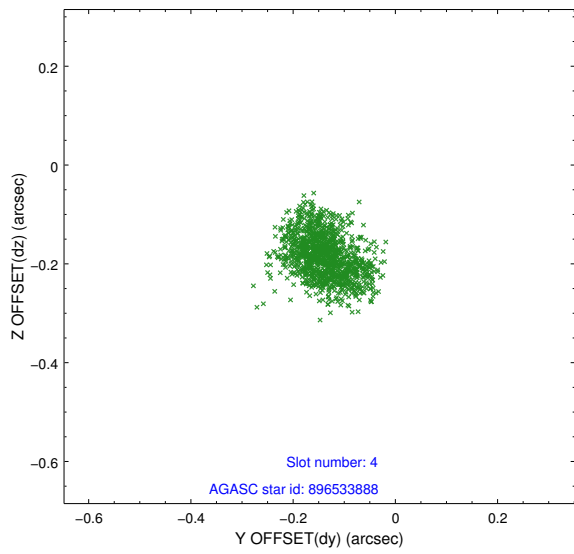
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2.4 Star Slots

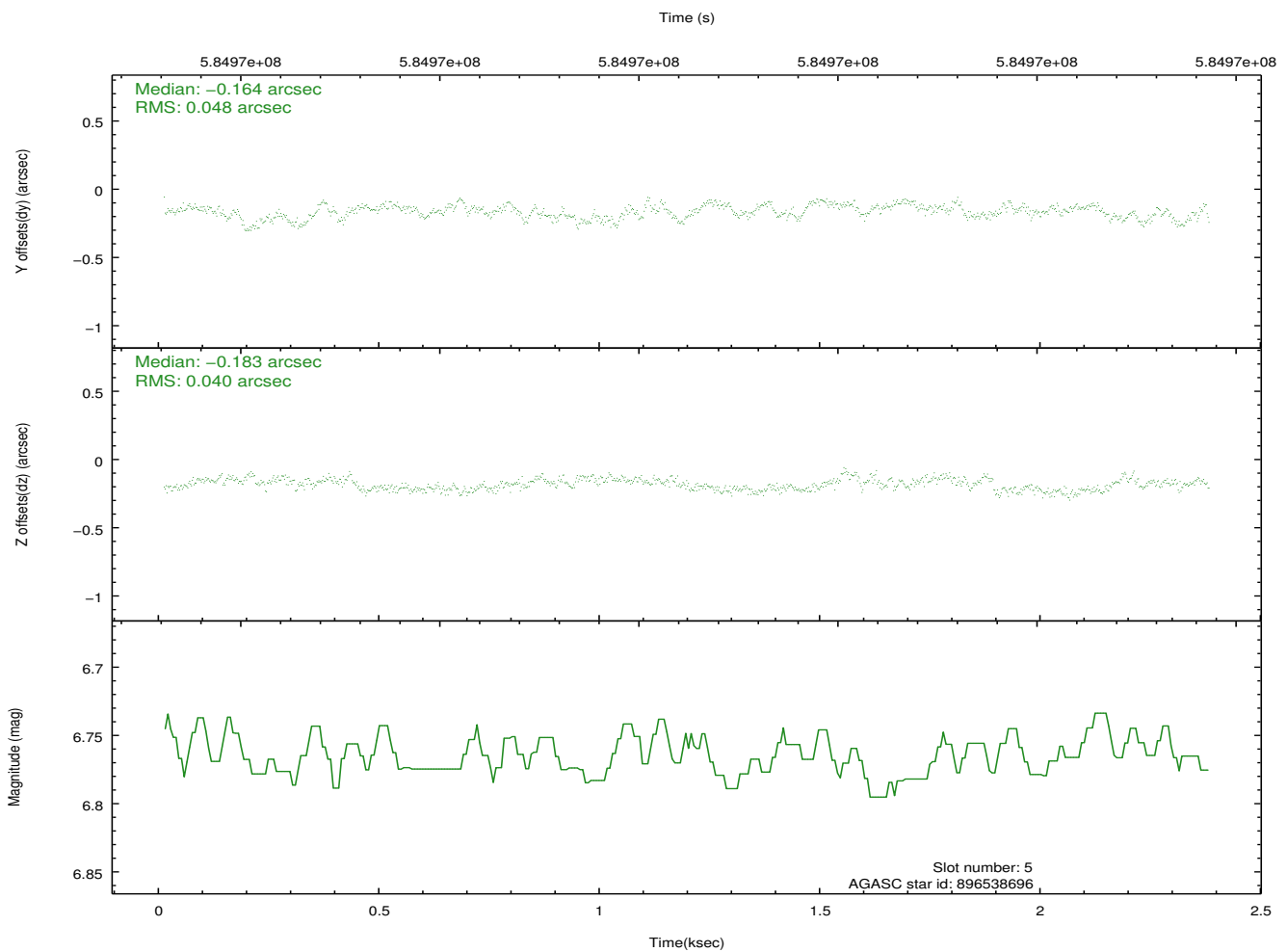
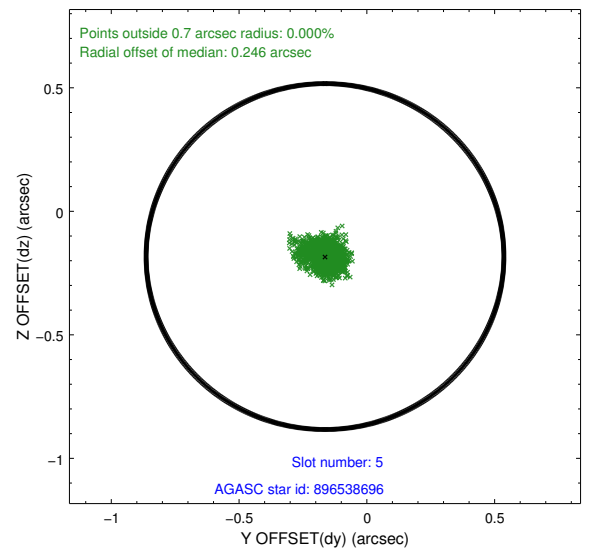
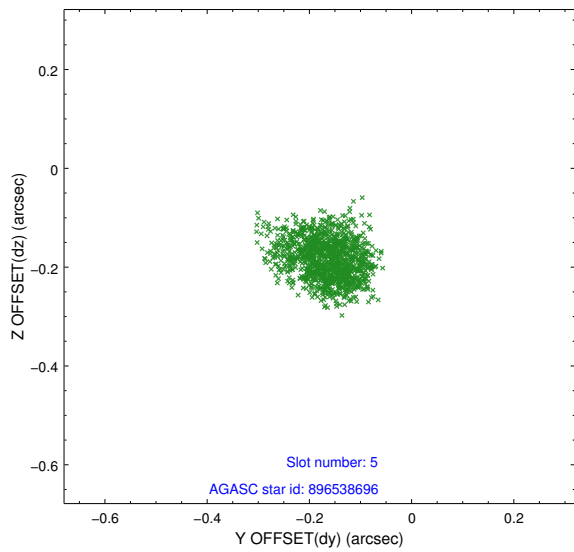
2.4.1 Slot 3



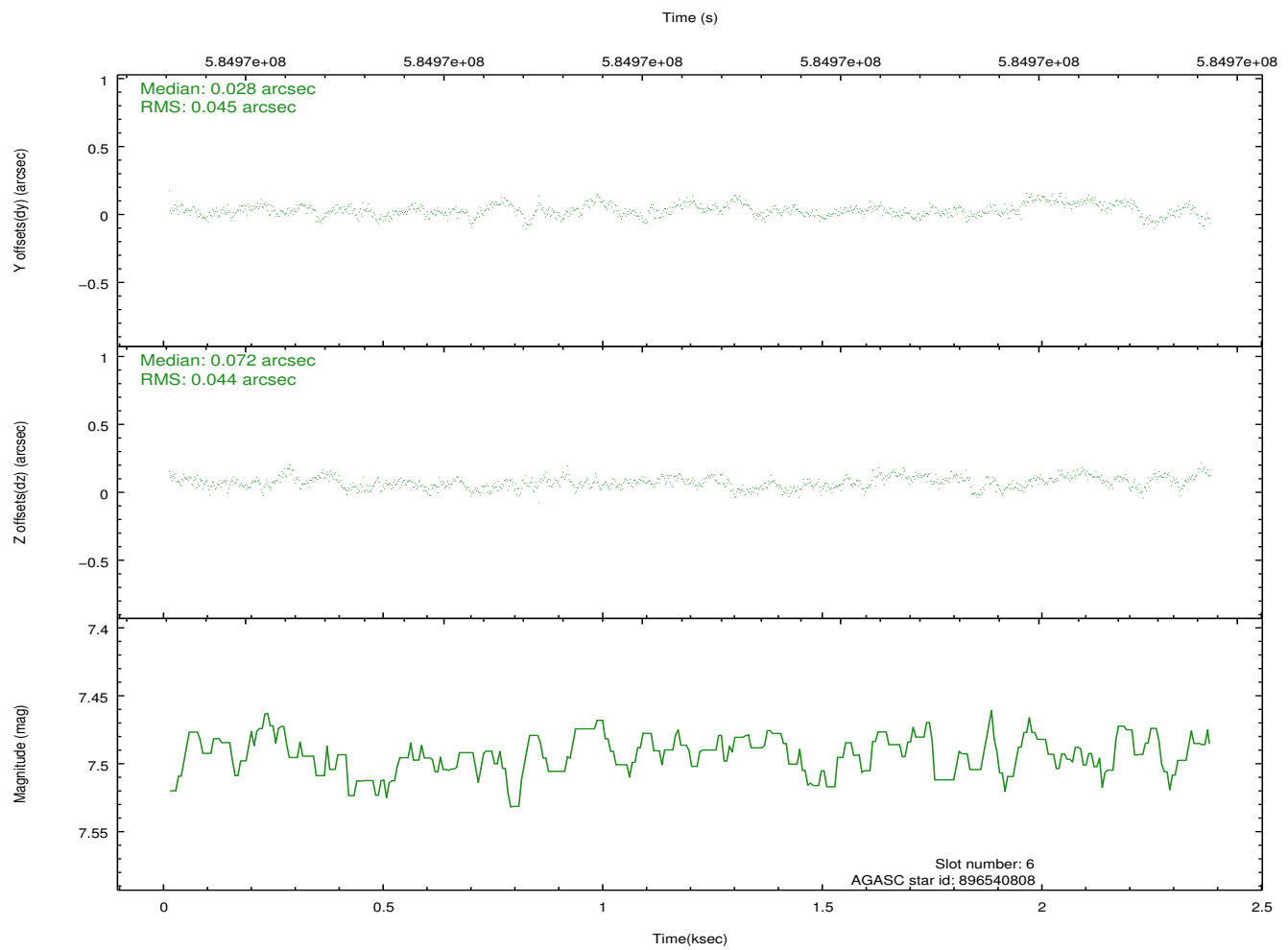
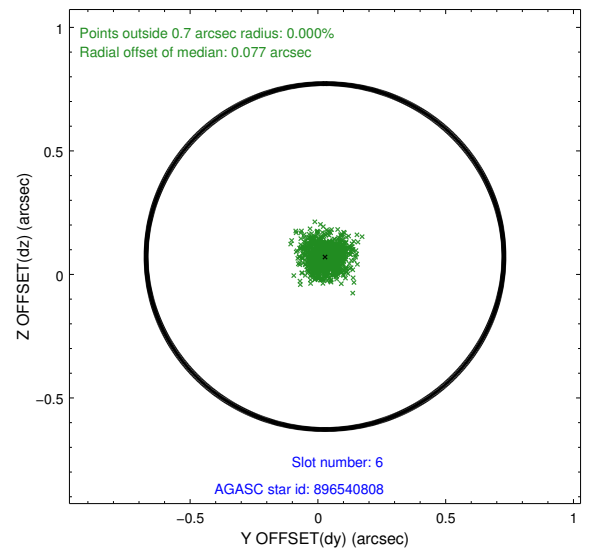
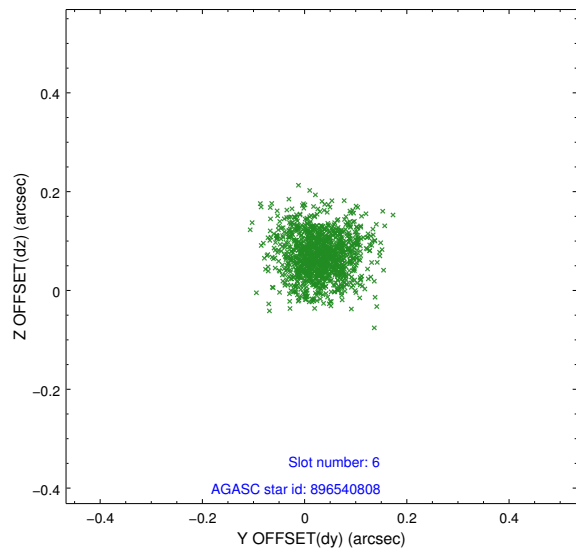
2.4.2 Slot 4



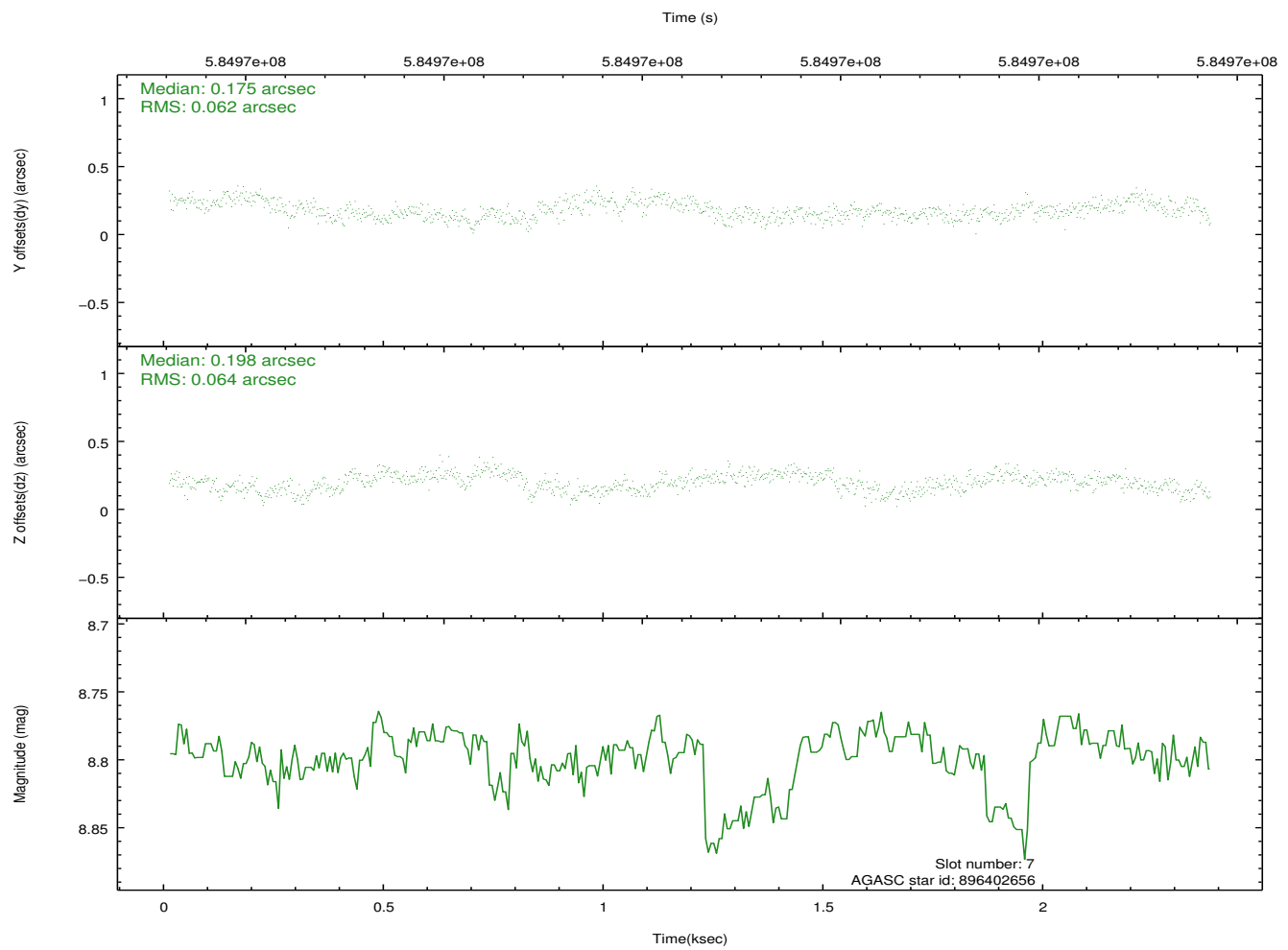
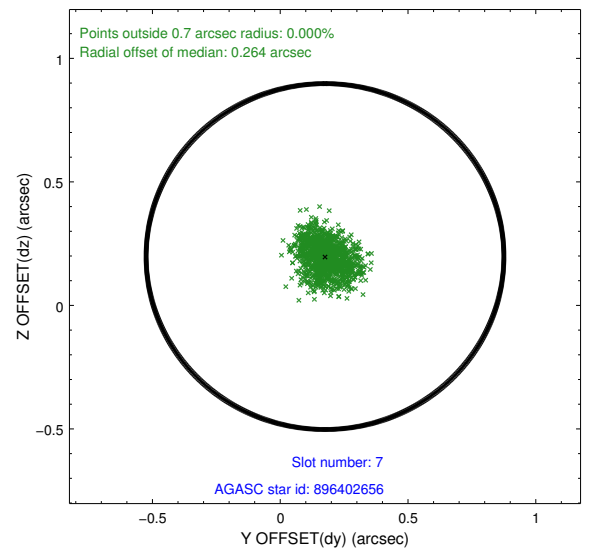
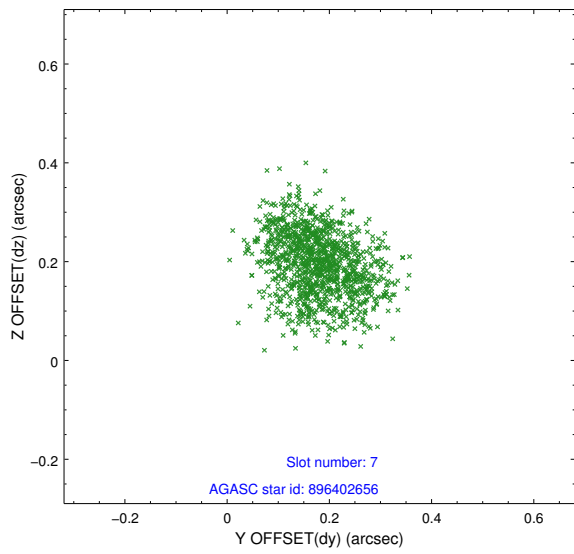
2.4.3 Slot 5



2.4.4 Slot 6

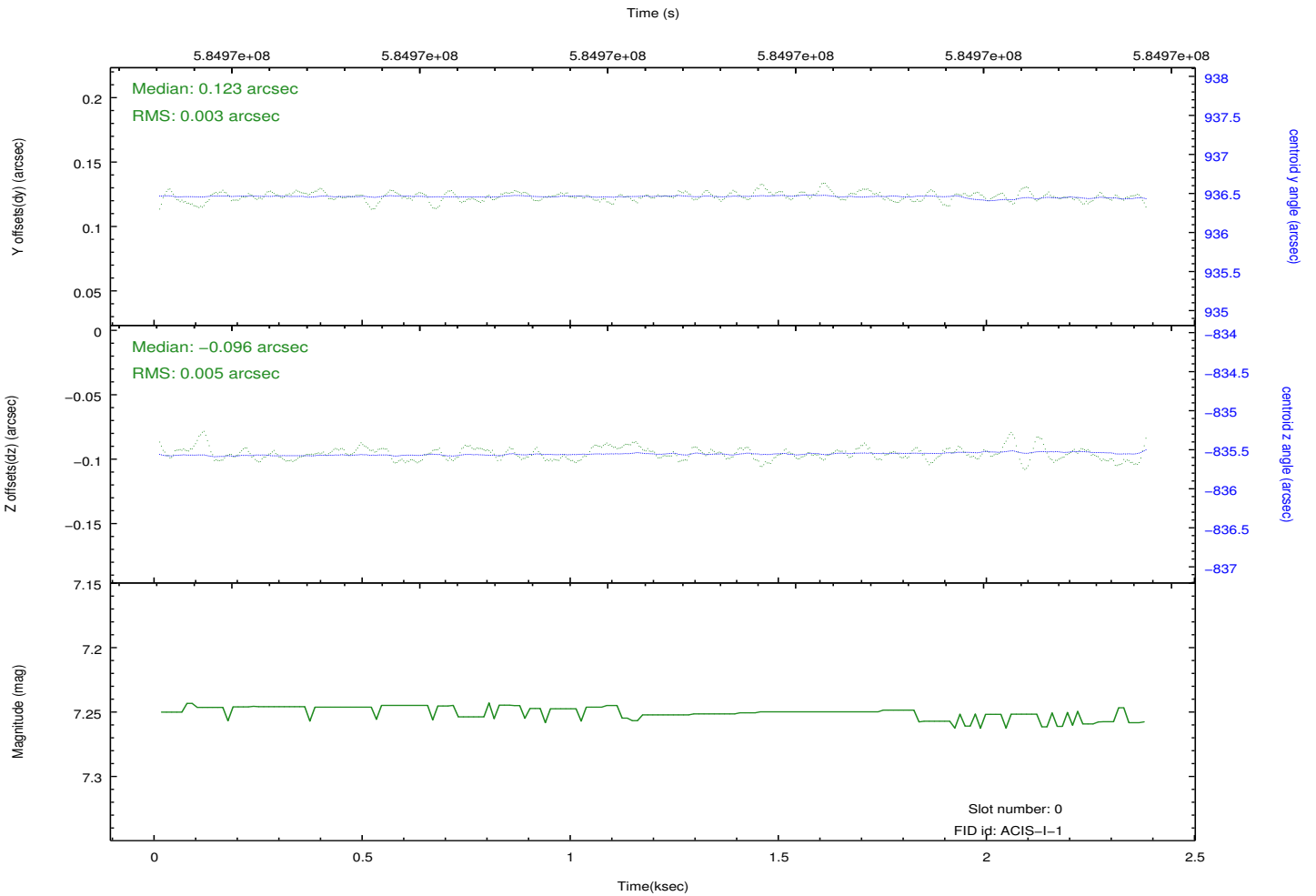
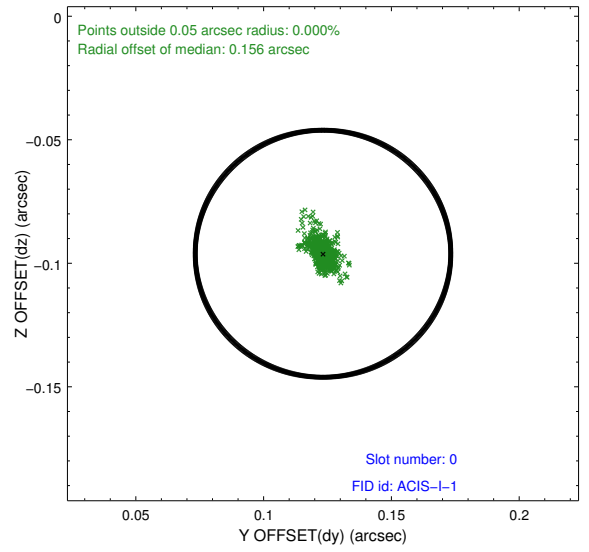
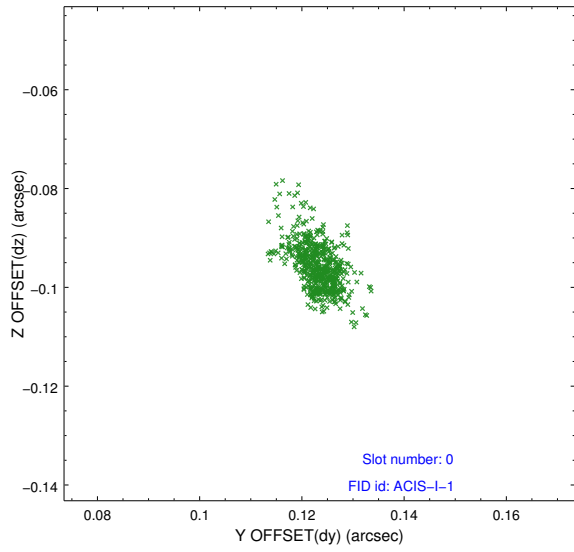


2.4.5 Slot 7

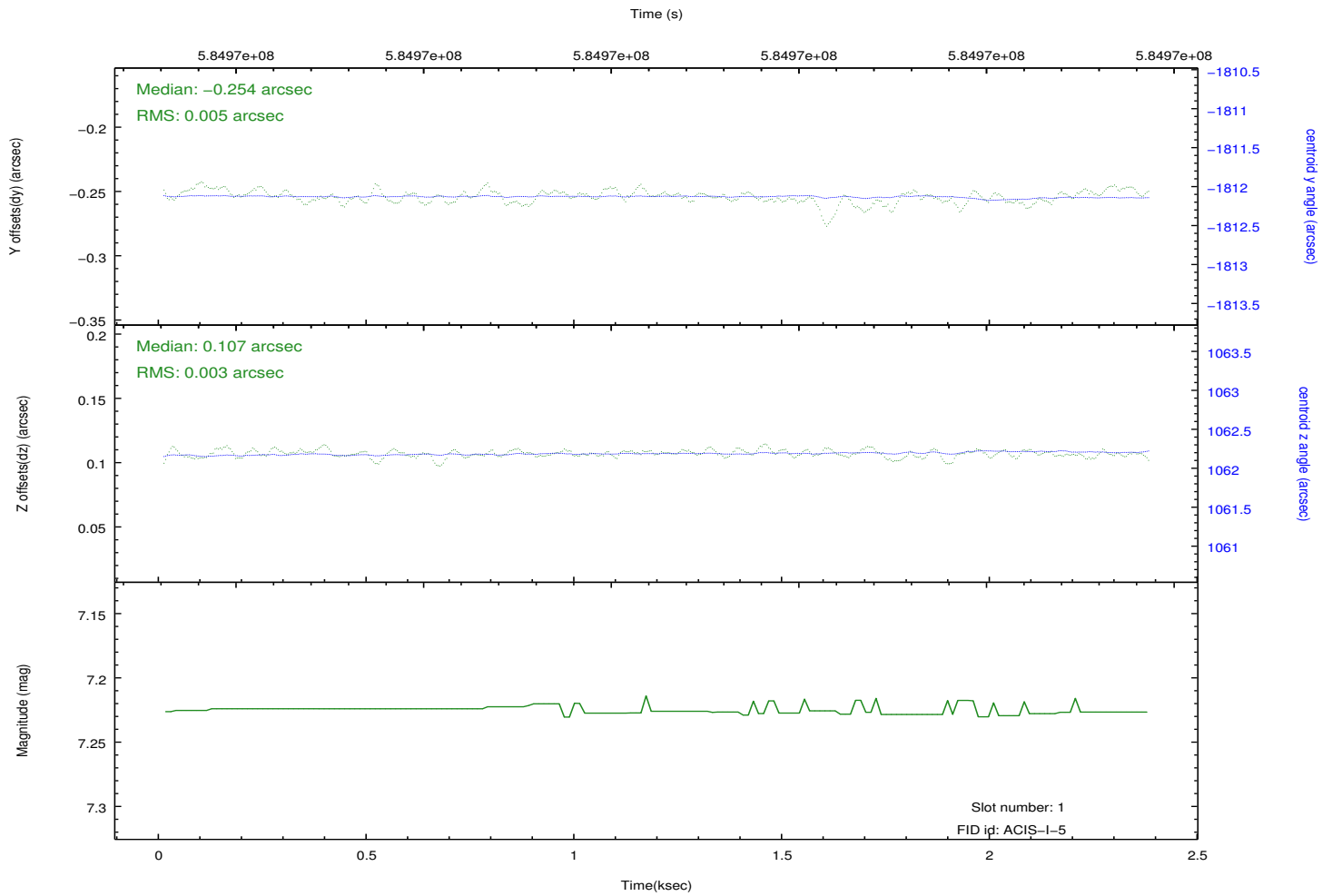
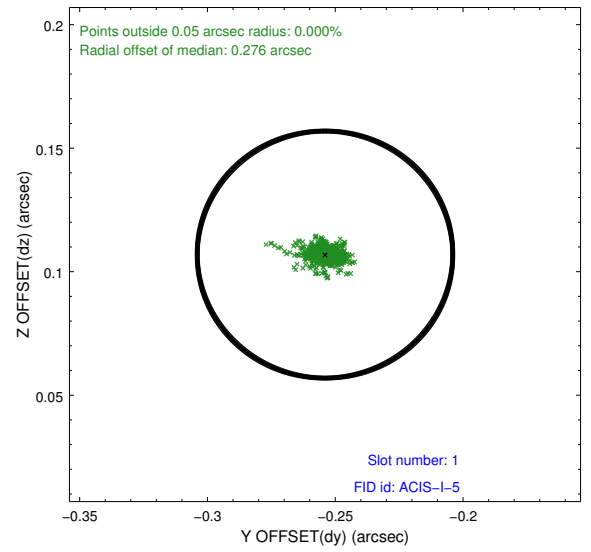
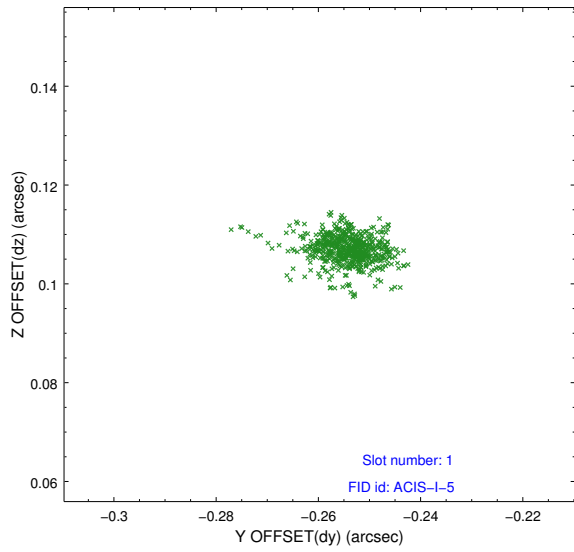


2.5 FID Slots

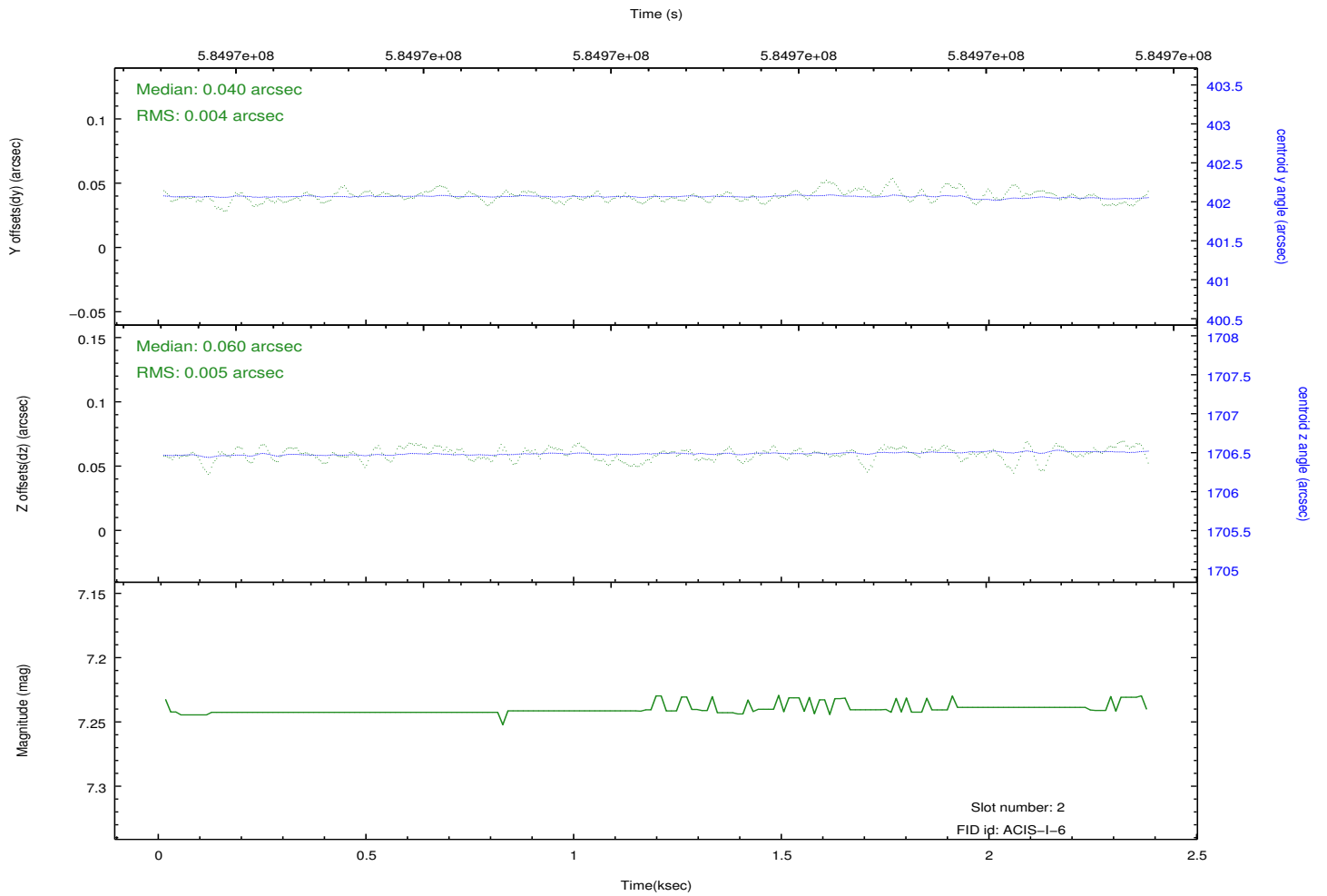
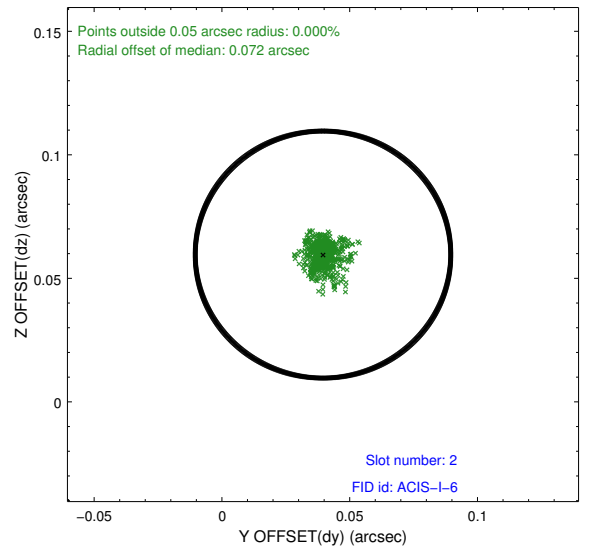
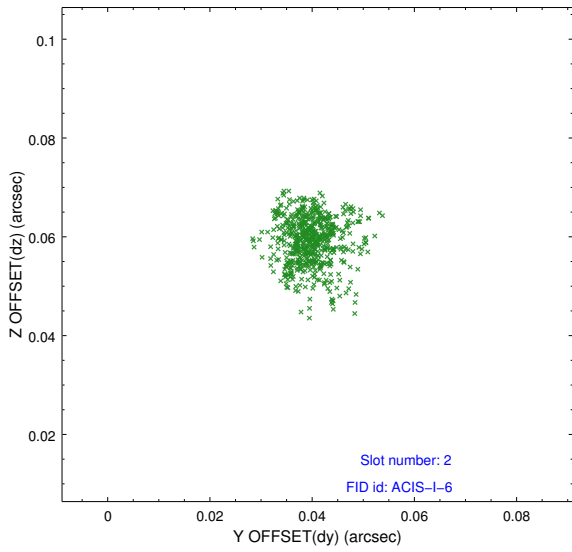
2.5.1 Slot 0



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)	2016.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9557656246424

A.2 Comments