

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18945 - L2 Version 1
Chandra X-Ray Center

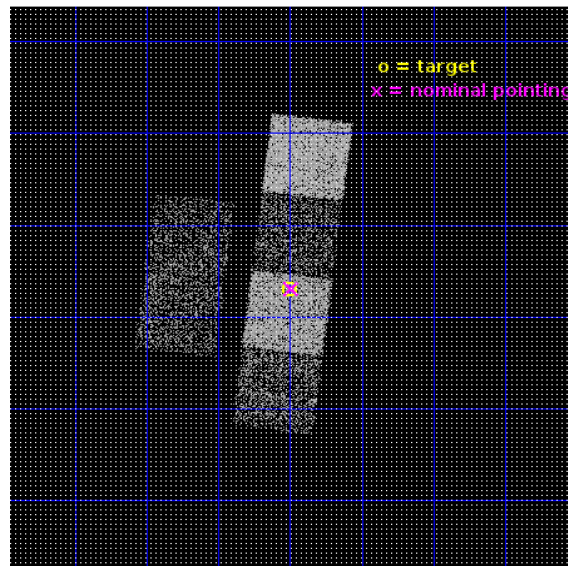
L2 Processing Date : Apr 7 2017

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1 Front

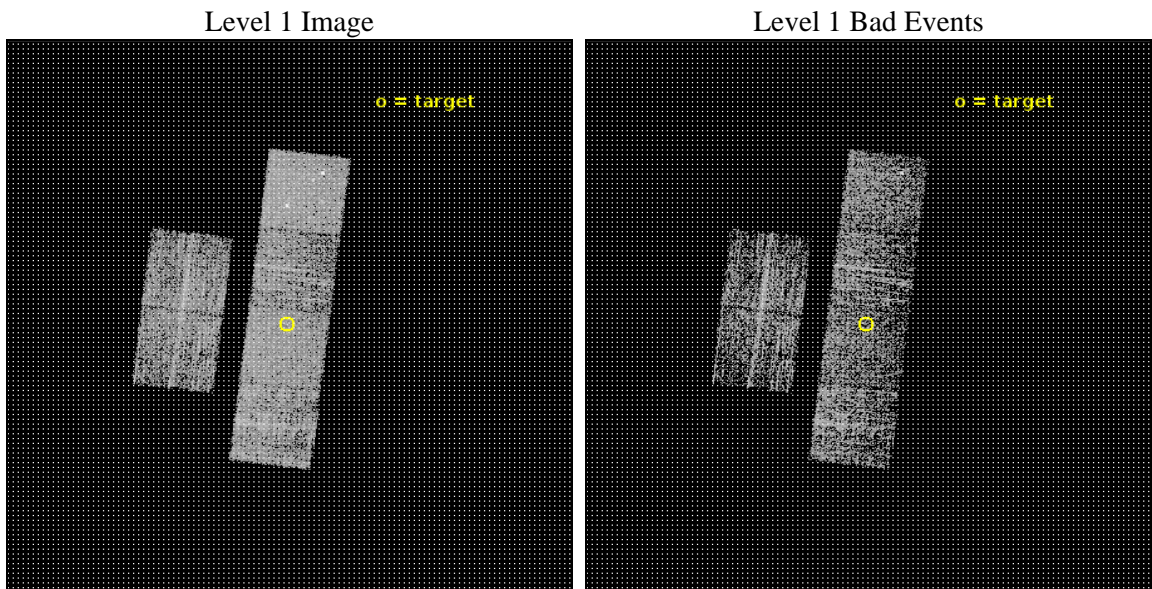
seq_num	201138	Sequence number
obs_id	18945	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J20125995+0112584	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	303.25125	Observer's specified target RA [deg]
dec_targ	1.215778	Observer's specified target Dec [deg]
ra_nom	303.24752527787	Nominal RA [deg]
dec_nom	1.2176568834904	Nominal Dec [deg]
roll_nom	97.048690312848	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1951.233009696	Sum of GTIs [s]
livetime	1926.5253224358	Livetime [s]
ontime2	1951.2740496397	Sum of GTIs [s]
ontime3	1951.1098896265	Sum of GTIs [s]
ontime5	1951.1919696331	Sum of GTIs [s]
ontime6	1951.1509296894	Sum of GTIs [s]
ontime7	1951.233009696	Sum of GTIs [s]
ontime8	1951.0688496828	Sum of GTIs [s]
l2events	22898	Number of level 2 events



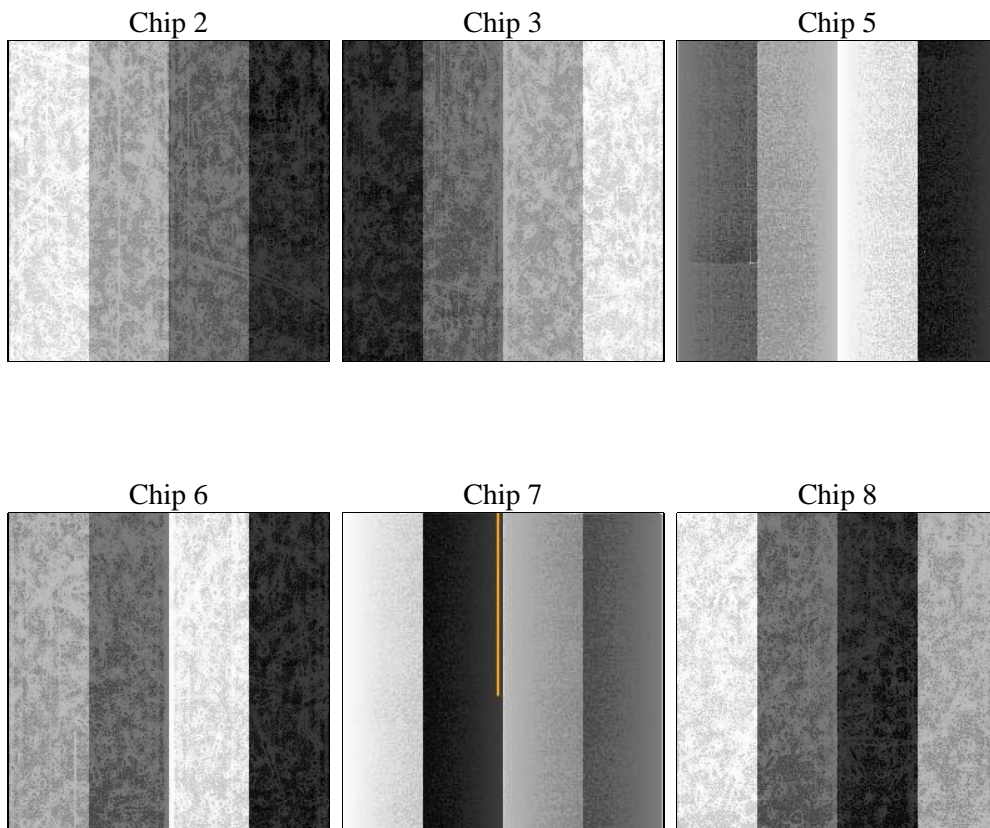
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.334000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	1951.233009696	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	1951.2740496397	Sum of GTIs [s]
date	2017-04-07T22:25:09	Date and time of file creation	ontime3	1951.1098896265	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	1951.1919696331	Sum of GTIs [s]
			ontime6	1951.1509296894	Sum of GTIs [s]
			ontime7	1951.233009696	Sum of GTIs [s]
			ontime8	1951.0688496828	Sum of GTIs [s]
			l1events	97630	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13643	12795	22340	13662	17543	17647
rejected events	12159	11347	11386	12075	9851	13080
rejected %	89%	88%	50%	88%	56%	74%

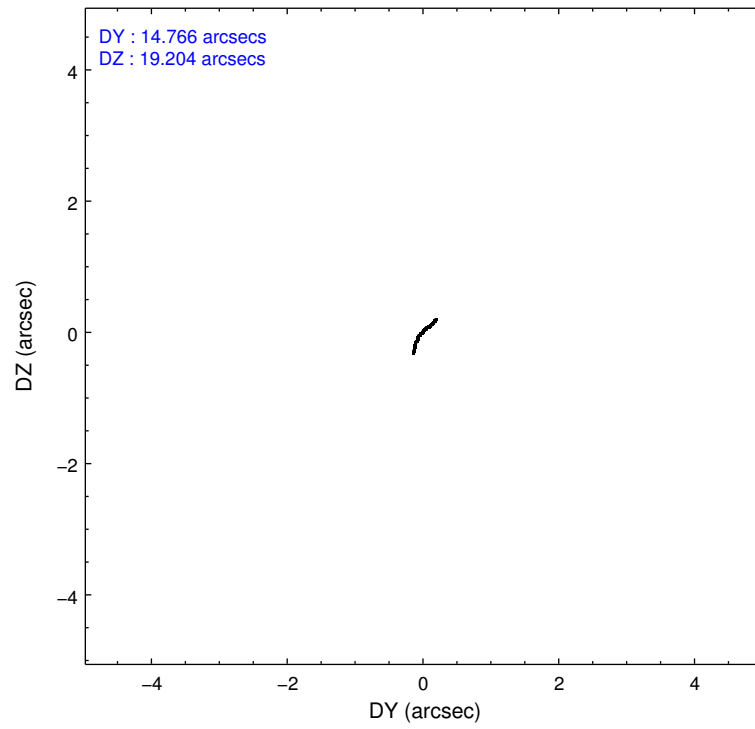
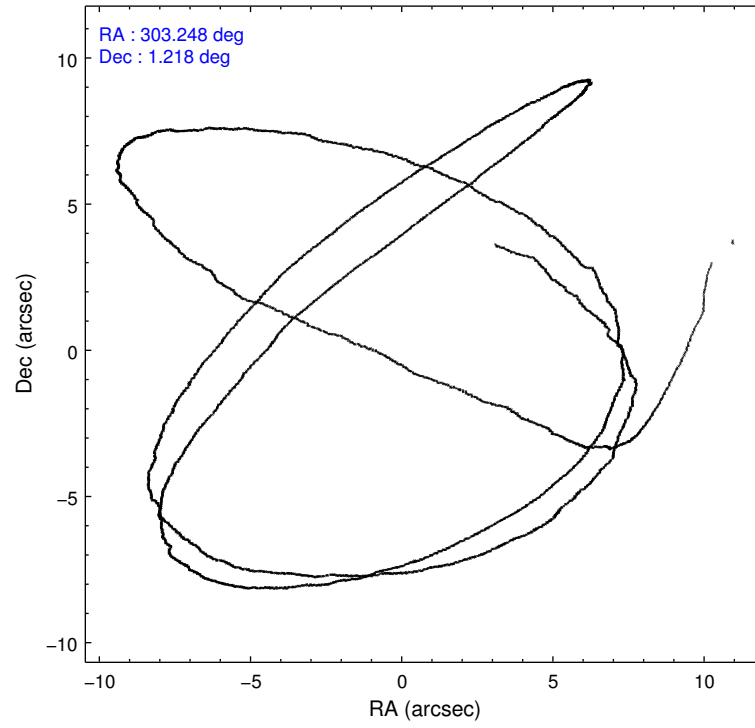
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	517	562	1314	580	647	1447
	3%	4%	5%	4%	3%	8%
grade 1 events	17	12	51	2	20	14
	0%	0%	0%	0%	0%	0%
grade 2 events	349	294	3582	355	1671	1108
	2%	2%	16%	2%	9%	6%
grade 3 events	157	161	334	167	690	485
	1%	1%	1%	1%	3%	2%
grade 4 events	159	151	317	152	640	434
	1%	1%	1%	1%	3%	2%
grade 5 events	549	653	1647	628	1804	924
	4%	5%	7%	4%	10%	5%
grade 6 events	303	281	5441	336	4070	1104
	2%	2%	24%	2%	23%	6%
grade 7 events	11592	10681	9654	11442	8001	12131
	84%	83%	43%	83%	45%	68%

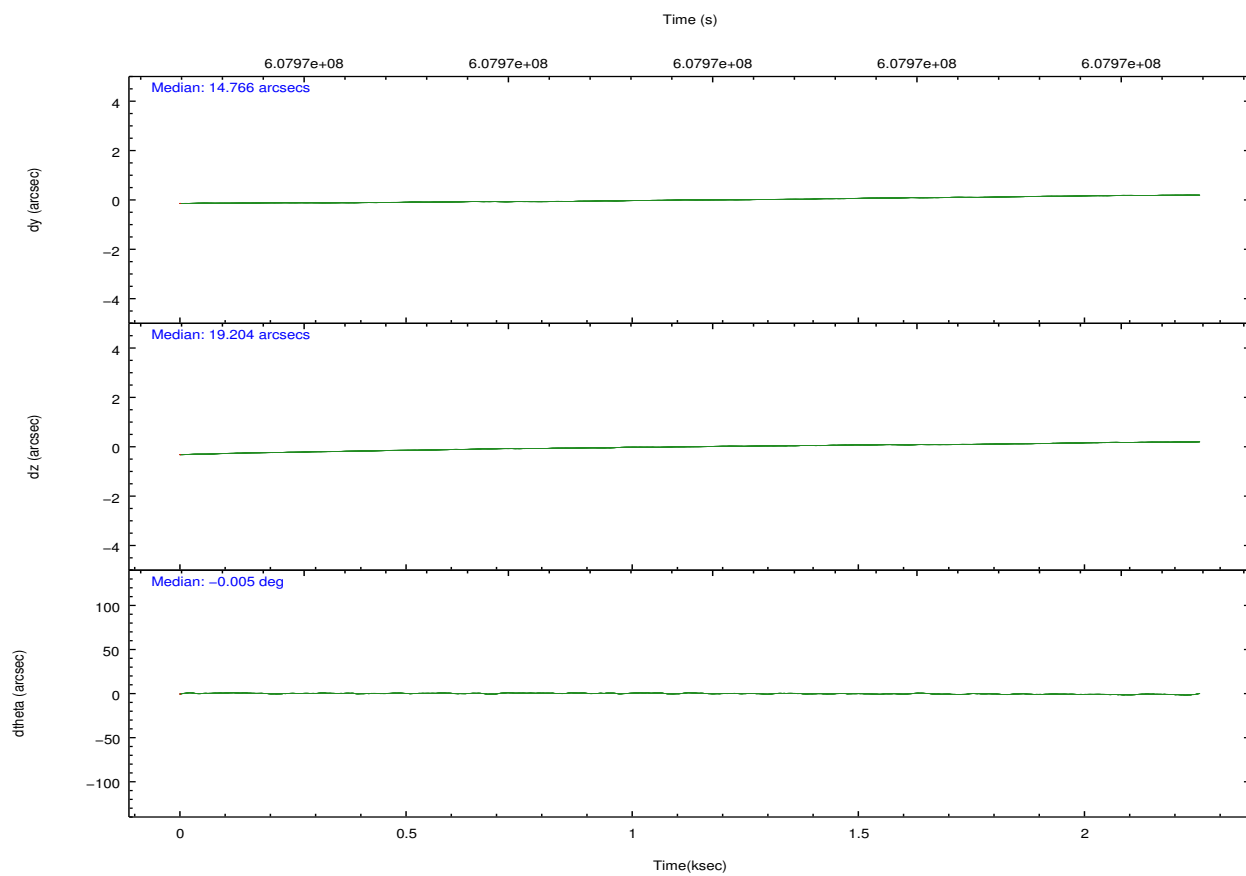
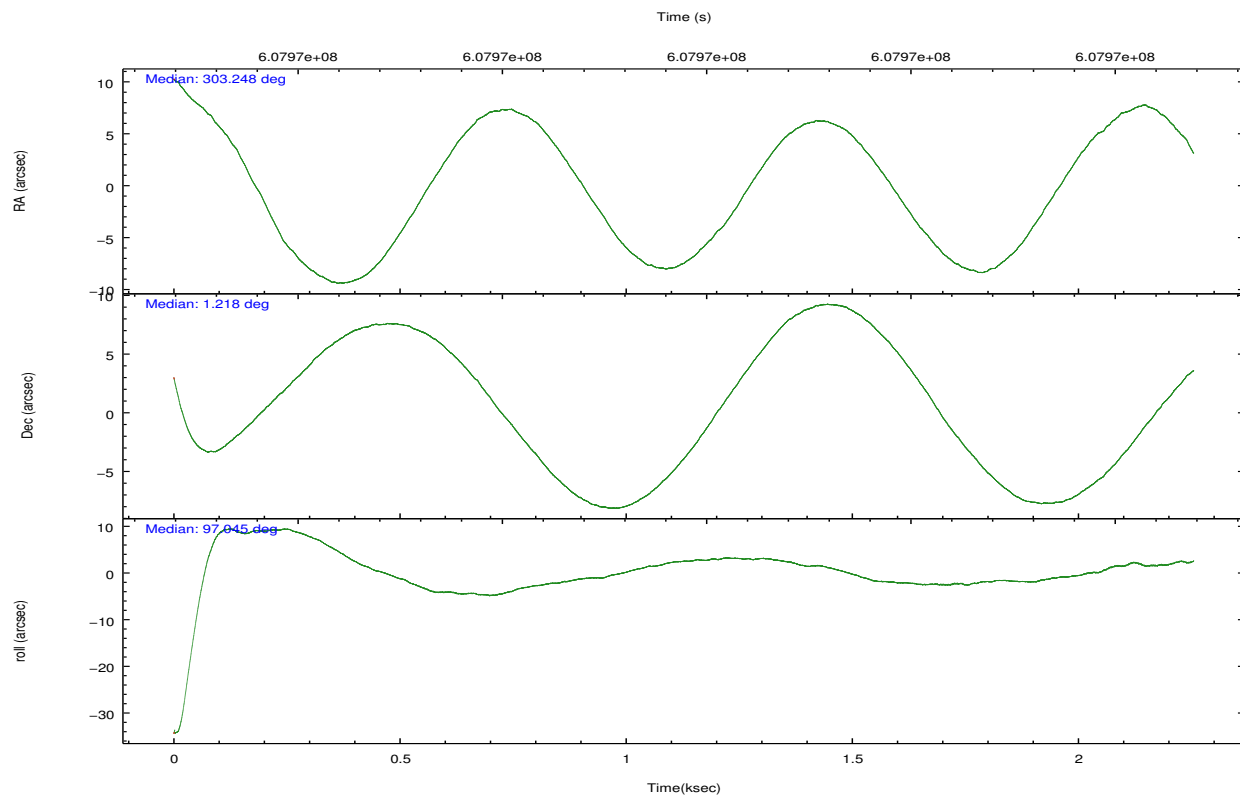
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	303.264227	303.2475252778698
[deg] Pointing Dec	1.196019	1.217656883490374
[deg] Pointing Roll	96.892003	97.04869031284821
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	607966056.184000	607965051.68483
Observation start date	2017-04-07T15:26:27	2017-04-07T15:10:51
[s] Observation end time (MET)	607968056.184000	607968278.8975199
Observation end date	2017-04-07T15:59:47	2017-04-07T16:04:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



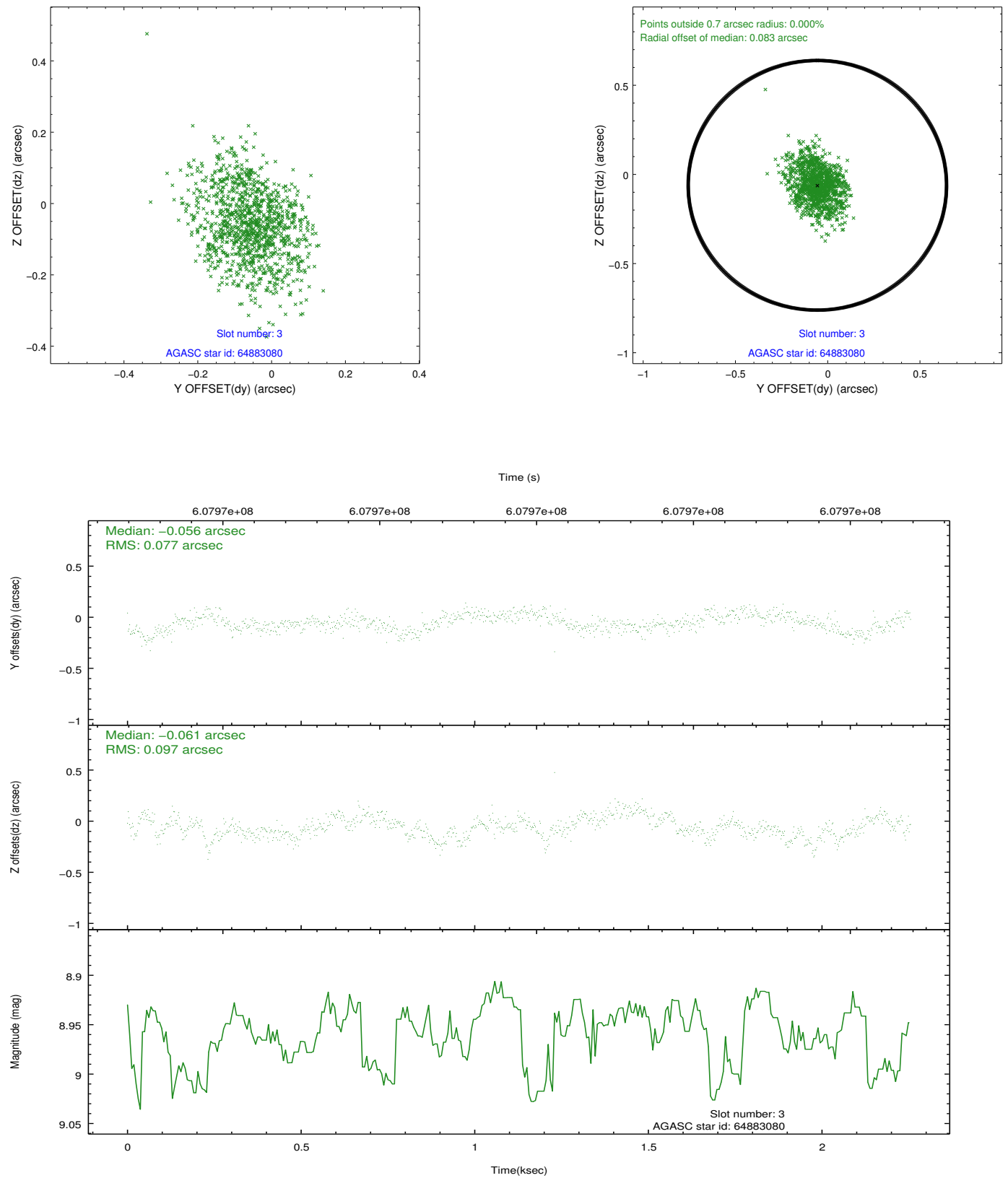


Slot Statistics

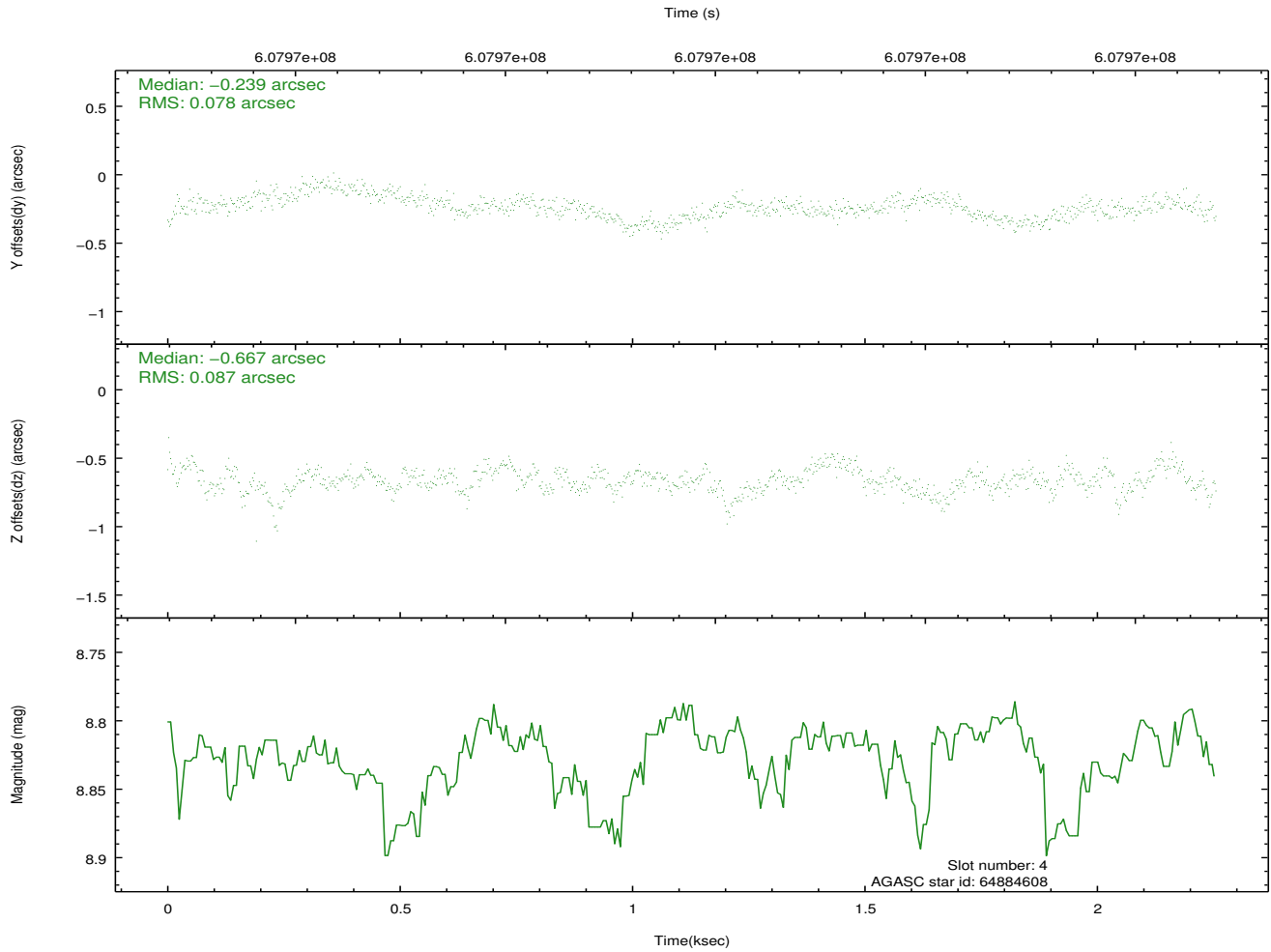
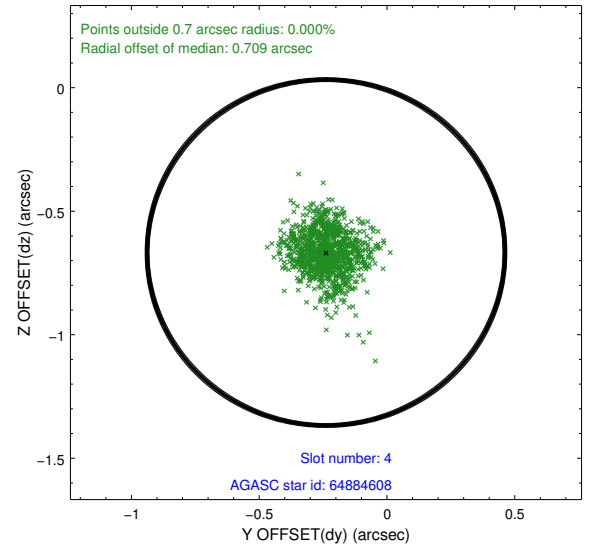
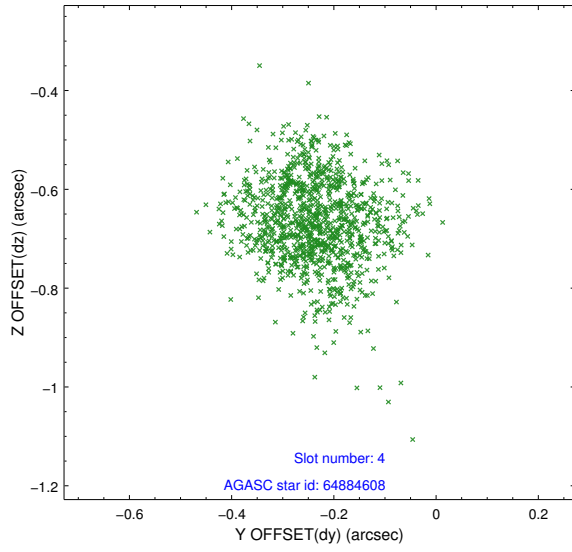
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	551	-0.203	-0.117	0.010	0.015	0.000000	0.000000	-767.92	-1740.75
1	FID		ACIS-S-4	7.13	551	0.500	0.130	0.007	0.011	0.000000	0.000000	2144.72	165.01
2	FID		ACIS-S-5	7.11	551	-0.329	-0.004	0.009	0.015	0.000000	0.000000	-1817.21	161.79
3	GUIDE	used	64883080	8.96	1099	-0.056	-0.061	0.135	0.212	303.057347	1.615419	1588.54	558.29
4	GUIDE	used	64884608	8.82	1100	-0.239	-0.667	0.122	0.197	302.878517	1.455372	1095.08	1266.27
5	GUIDE	used	64886616	7.60	1101	0.031	-0.351	0.099	0.159	302.875759	1.068831	-285.42	1444.18
6	GUIDE	used	65026728	9.35	1096	0.390	0.926	0.160	0.255	303.904219	1.127873	-519.09	-2254.97
7	GUIDE	used	64890112	9.23	1098	-0.133	0.155	0.133	0.214	302.746067	0.630758	-1796.71	2094.34

2.4 Star Slots

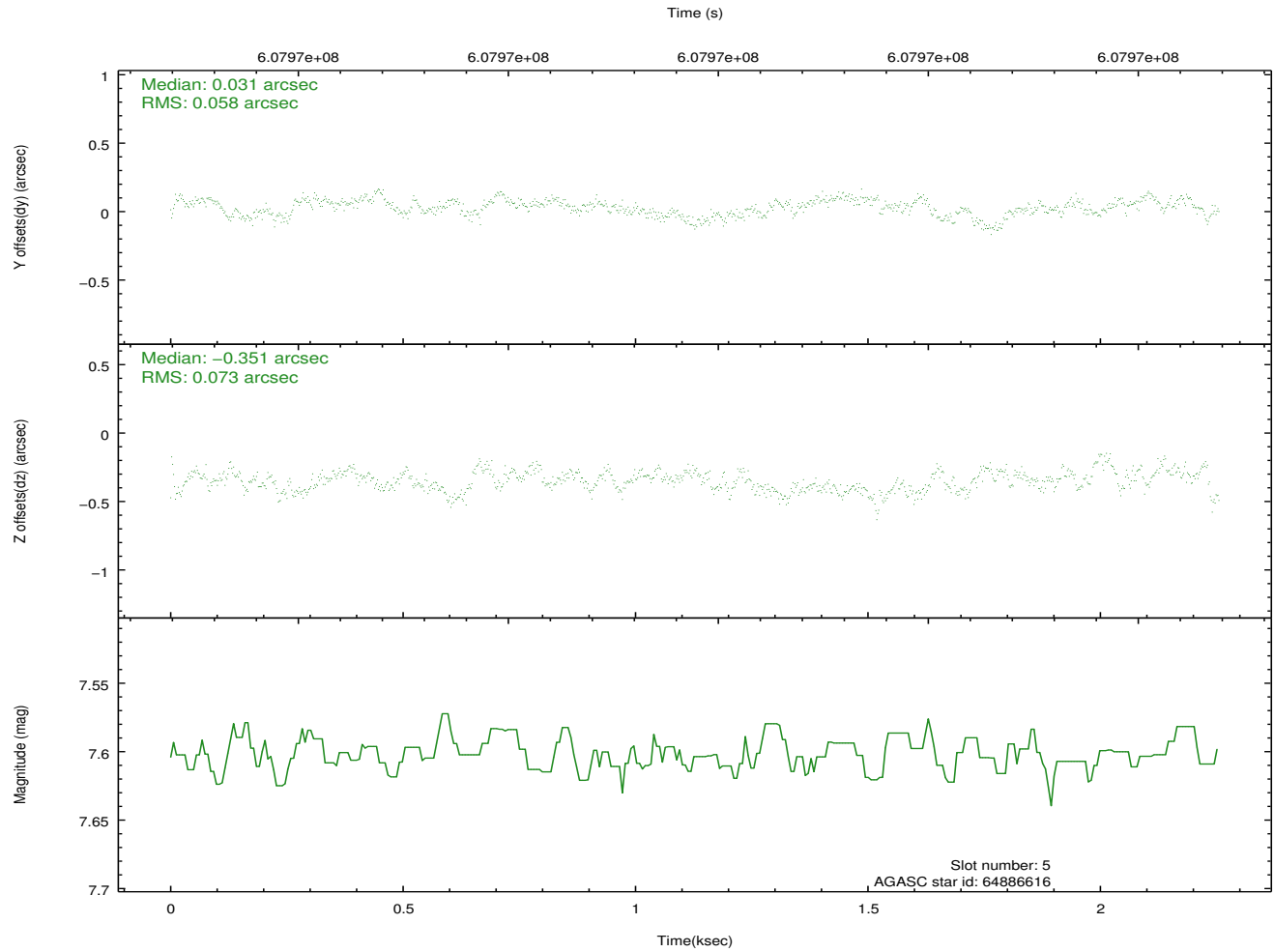
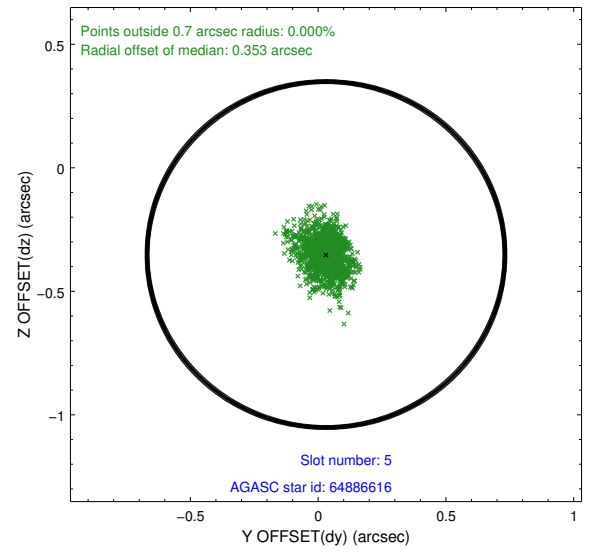
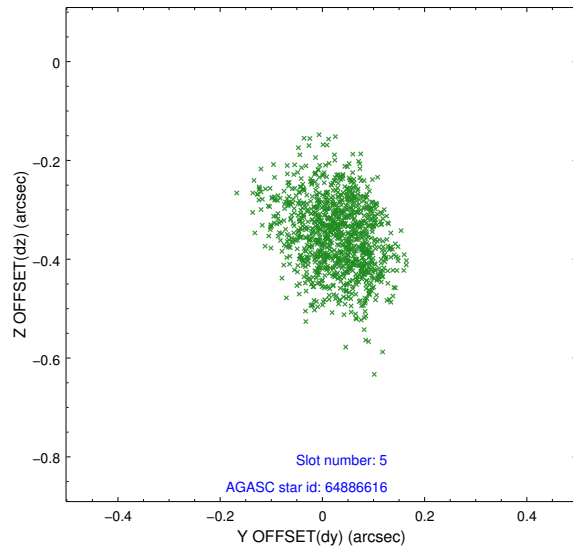
2.4.1 Slot 3



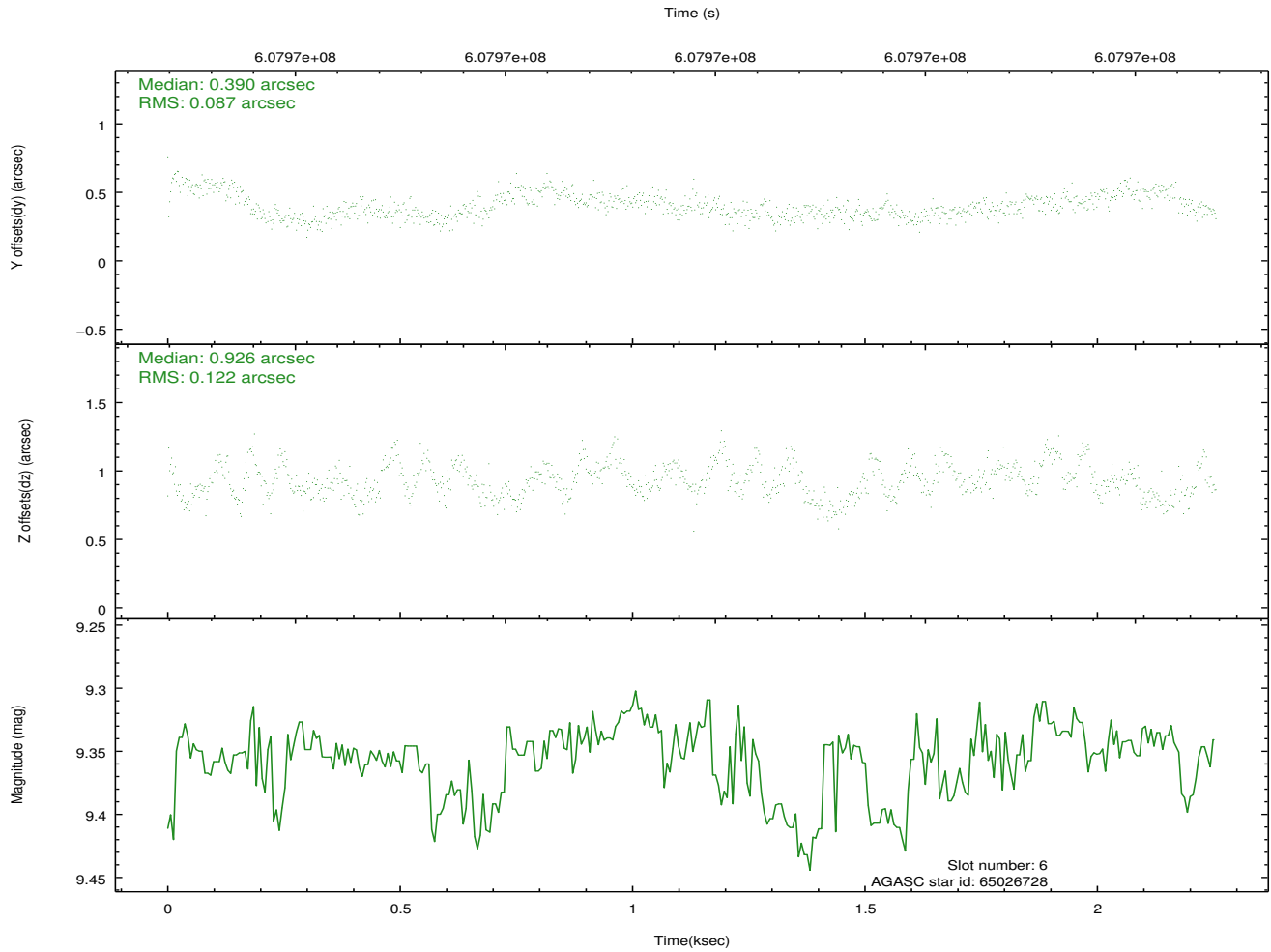
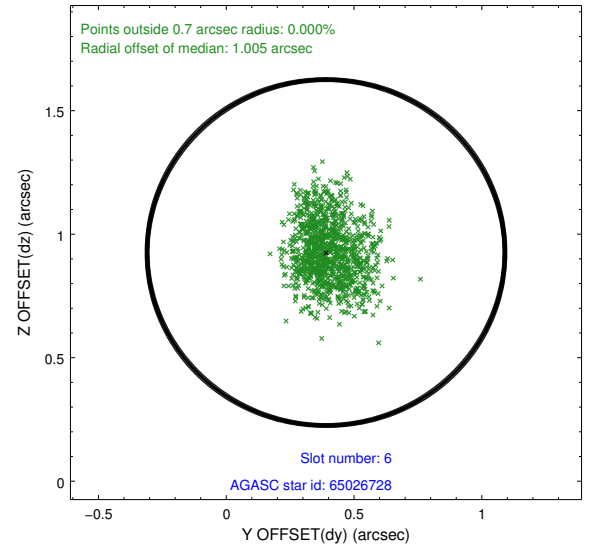
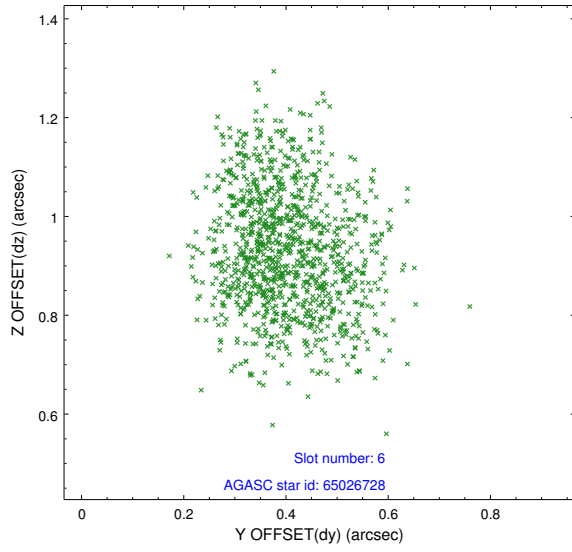
2.4.2 Slot 4



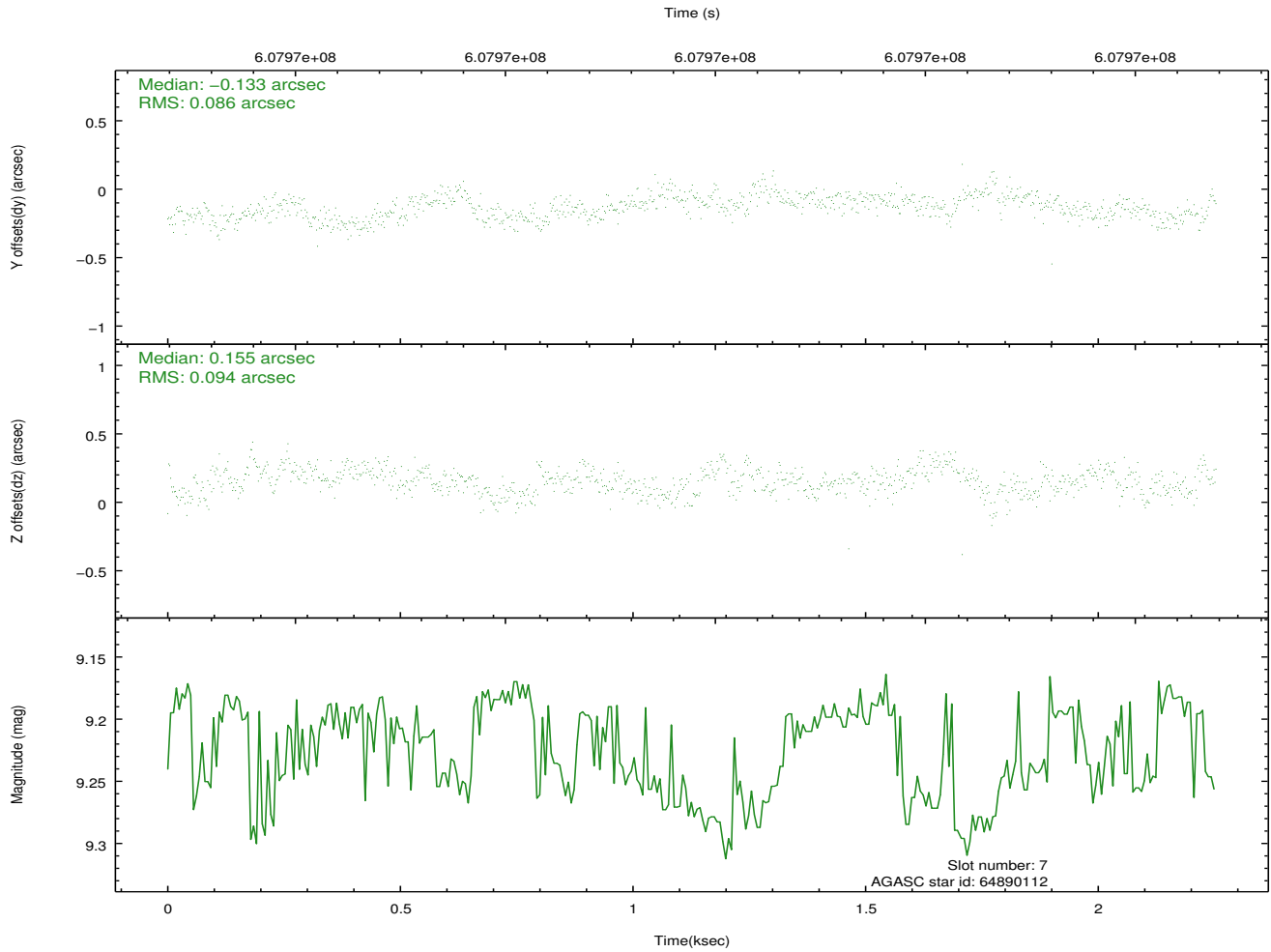
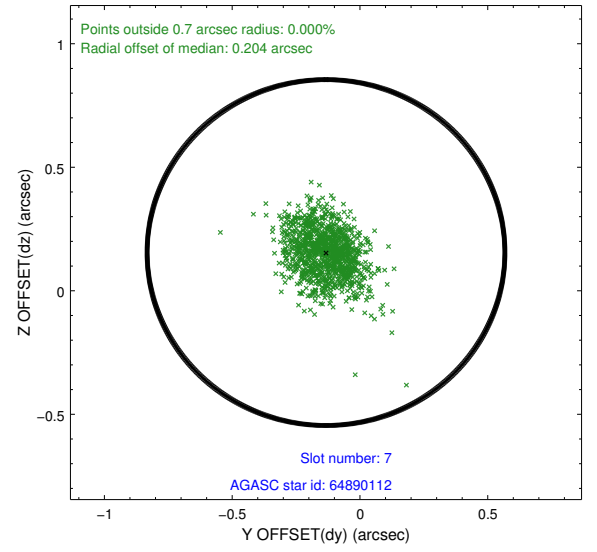
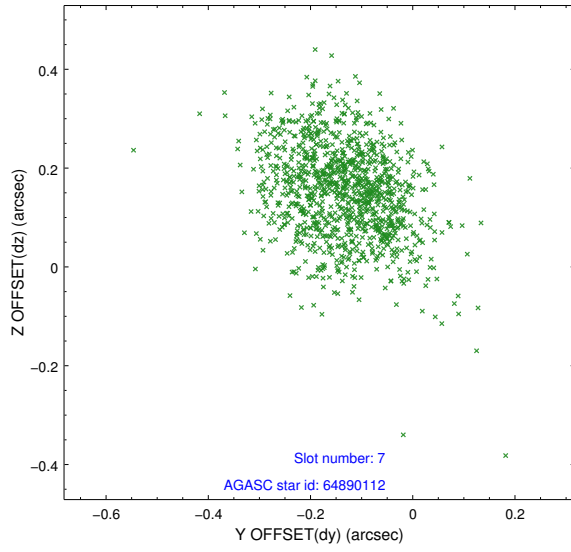
2.4.3 Slot 5



2.4.4 Slot 6

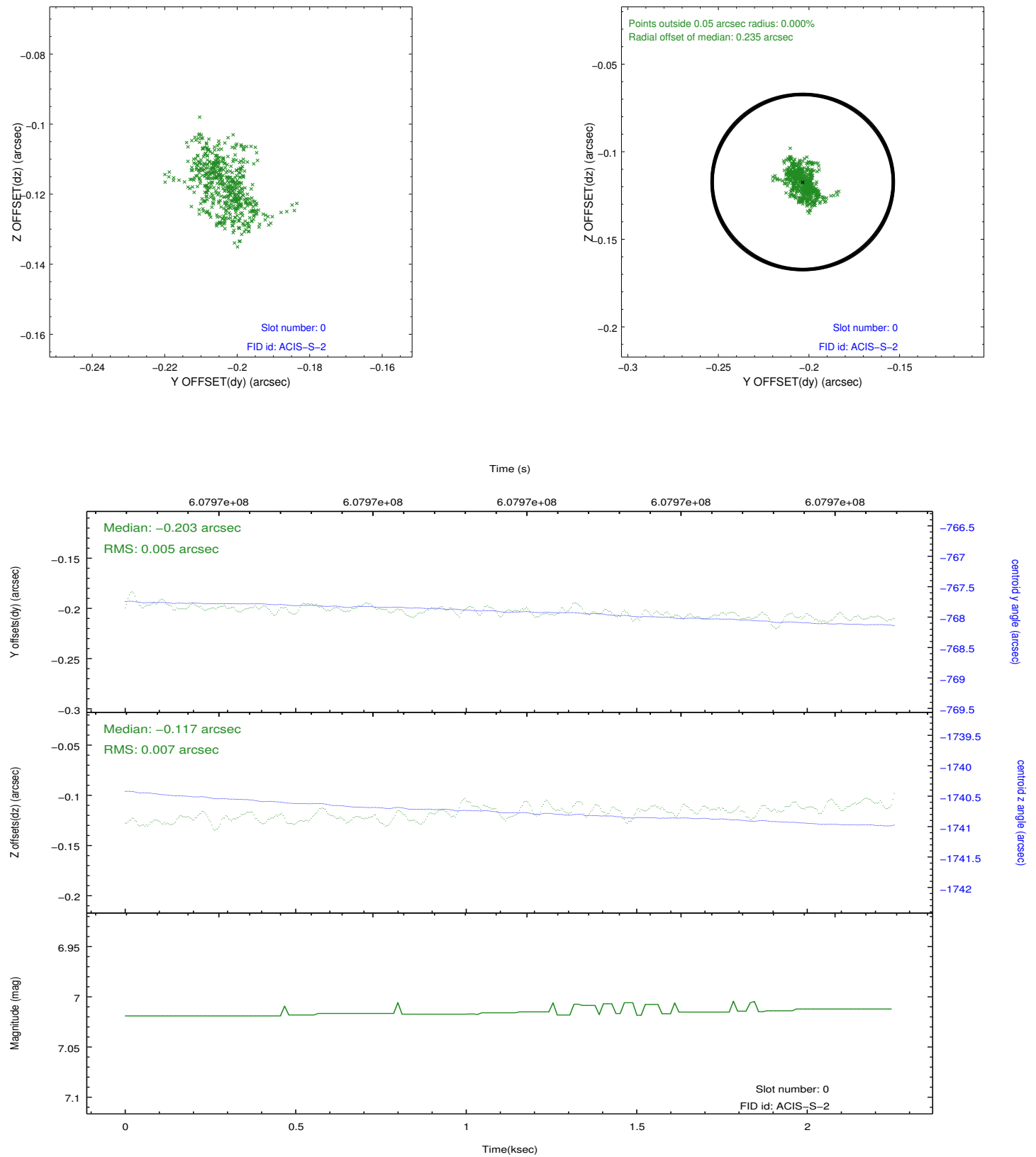


2.4.5 Slot 7

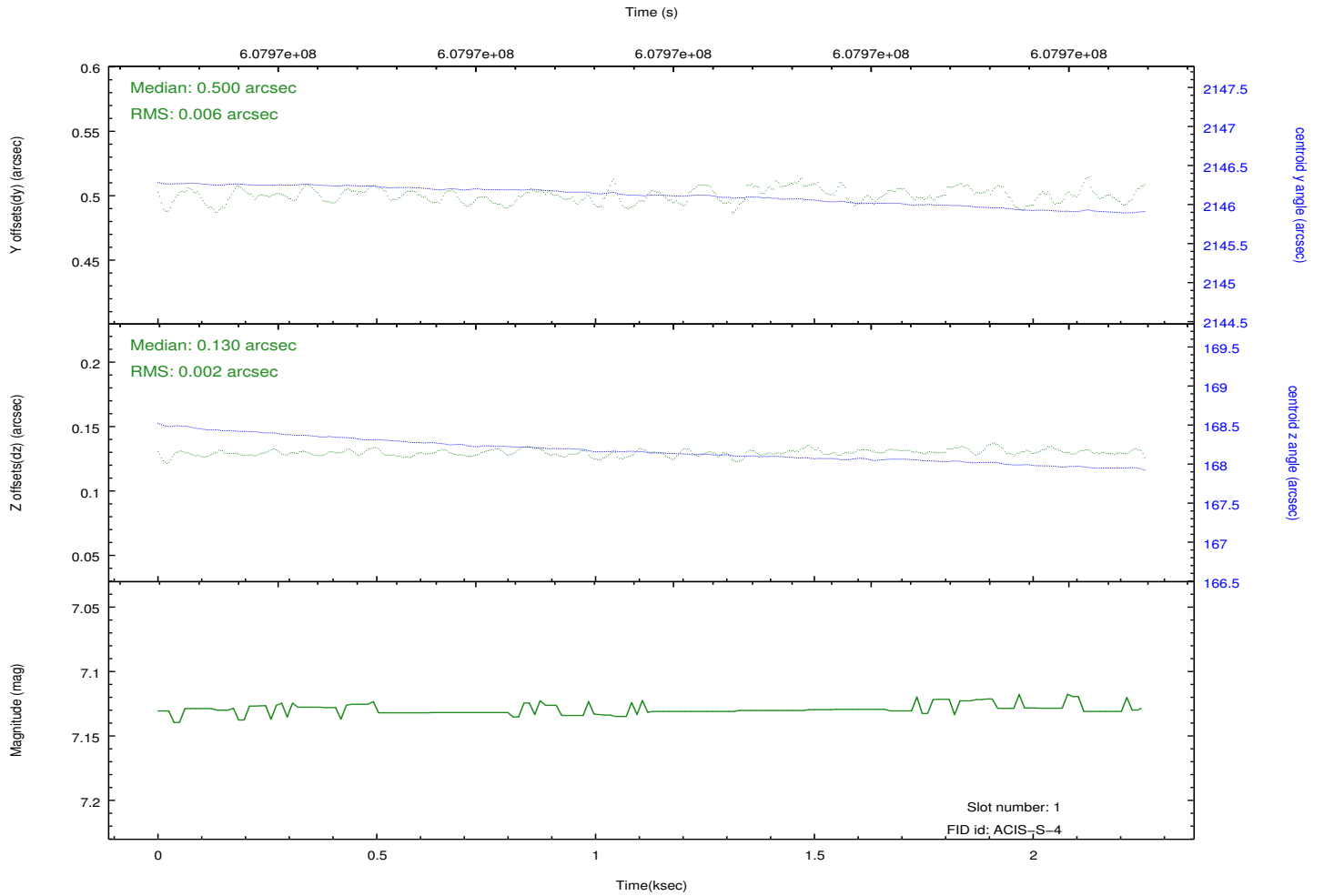
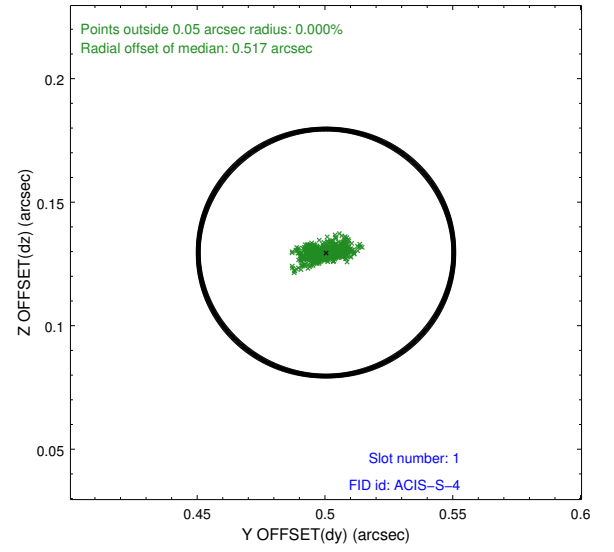
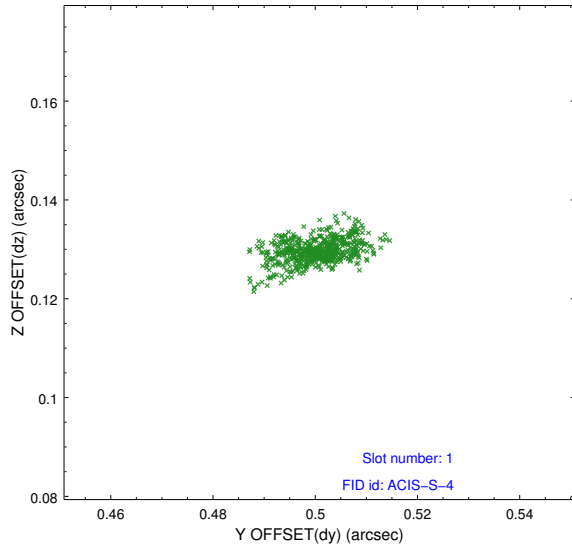


2.5 FID Slots

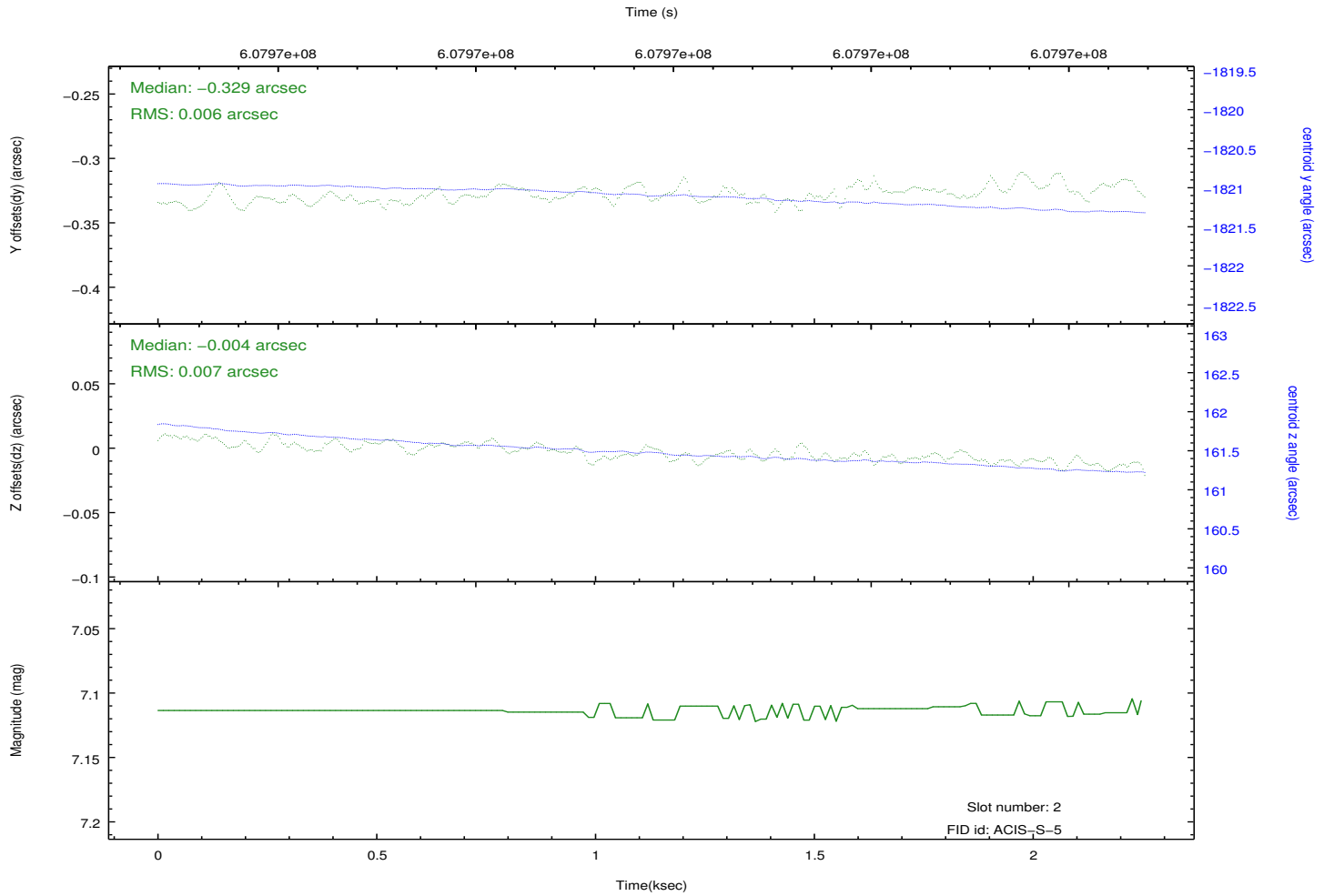
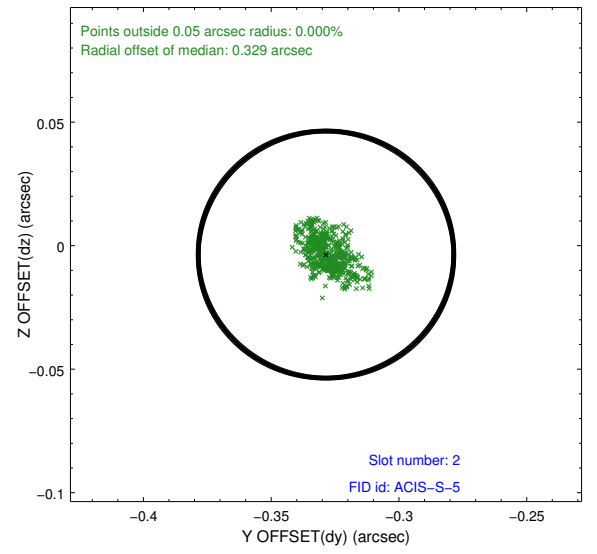
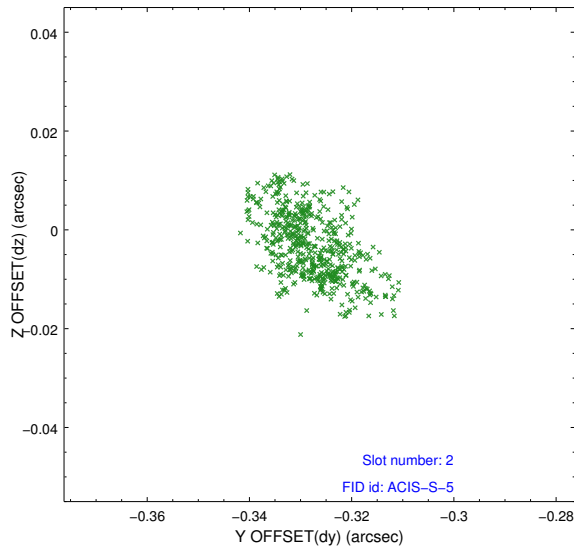
2.5.1 Slot 0



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)	2017.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.951233009696

A.2 Comments