

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18128 - L2 Version 1
Chandra X-Ray Center

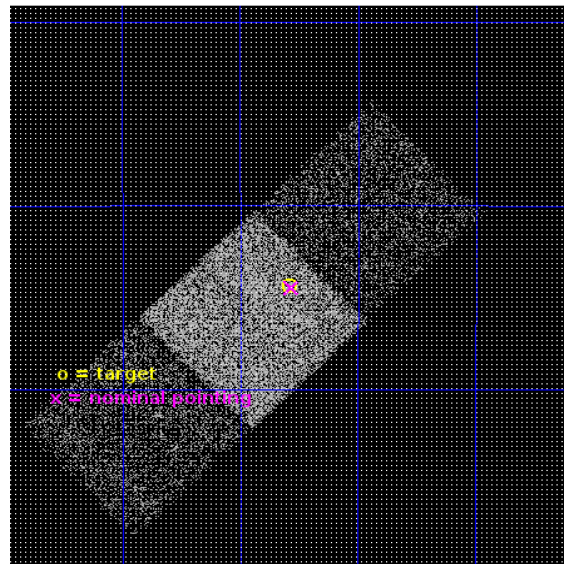
L2 Processing Date : Jul 1 2016

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1 Front

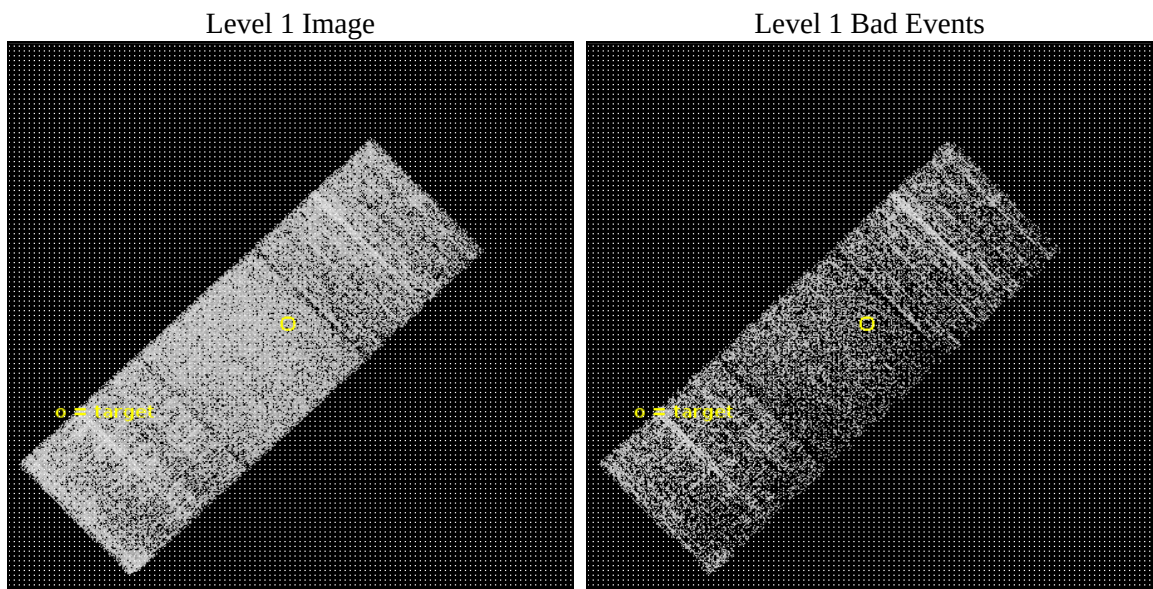
seq_num	703194	Sequence number
obs_id	18128	Observation id
title	X-RAYING FORNAX	Proposal title
observer	Elena Gallo	Principal investigator
object	fcc177	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.197917	Observer's specified target RA [deg]
dec_targ	-34.739611	Observer's specified target Dec [deg]
ra_nom	54.195515704164	Nominal RA [deg]
dec_nom	-34.741184835418	Nominal Dec [deg]
roll_nom	136.00382730645	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4984.2900624275	Sum of GTIs [s]
livetime	4919.1666433809	Livetime [s]
ontime6	4984.2490224838	Sum of GTIs [s]
ontime7	4984.2900624275	Sum of GTIs [s]
ontime8	4984.2079824209	Sum of GTIs [s]
l2events	24222	Number of level 2 events



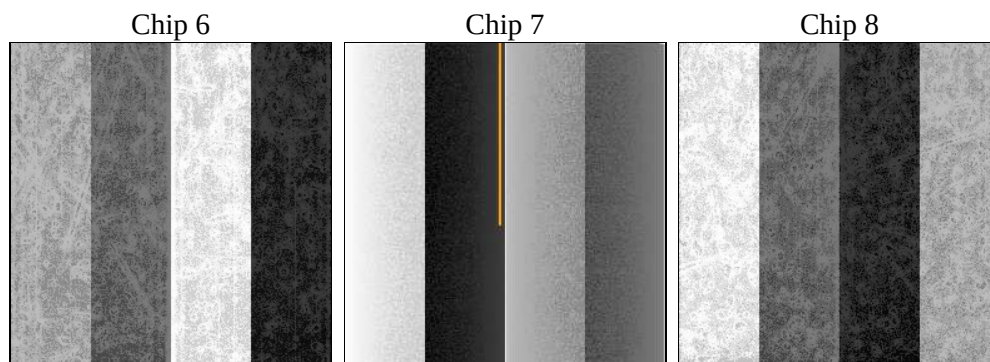
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4870.380000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	4984.2900624275	Sum of GTIs [s]
caldbver	4.7.2	 	ontime6	4984.2490224838	Sum of GTIs [s]
date	2016-07-01T14:15:25	Date and time of file creation	ontime7	4984.2900624275	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	4984.2079824209	Sum of GTIs [s]
			l1events	114863	Number of level 1 events

2.1.4 Events

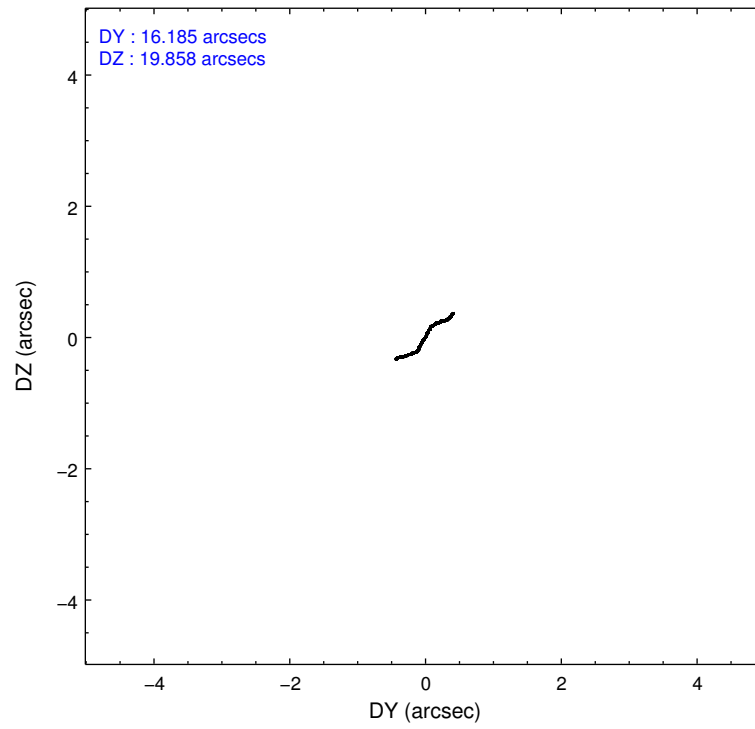
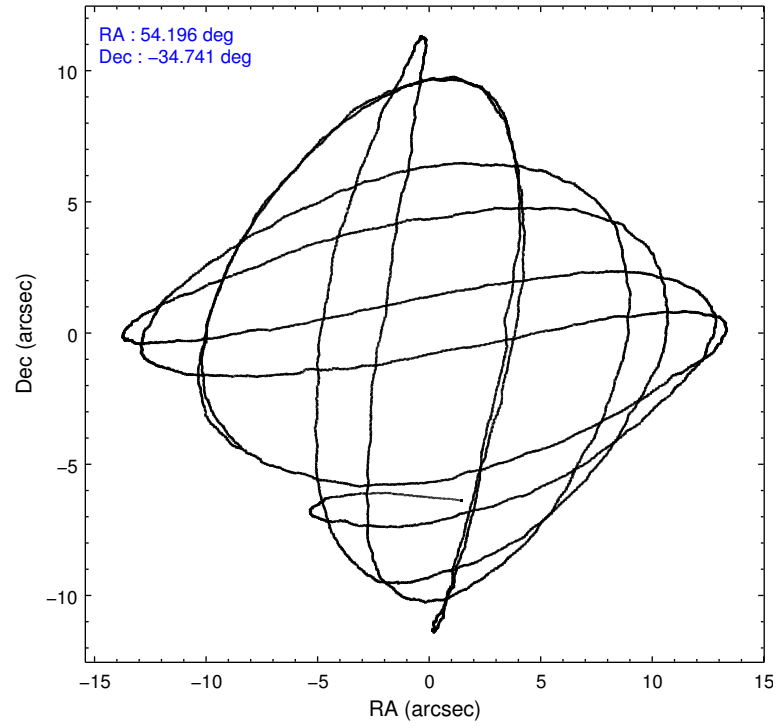
	ccd 6	ccd 7	ccd 8
level 1 events	33220	40640	41003
rejected events	29510	22912	30092
rejected %	88%	56%	73%

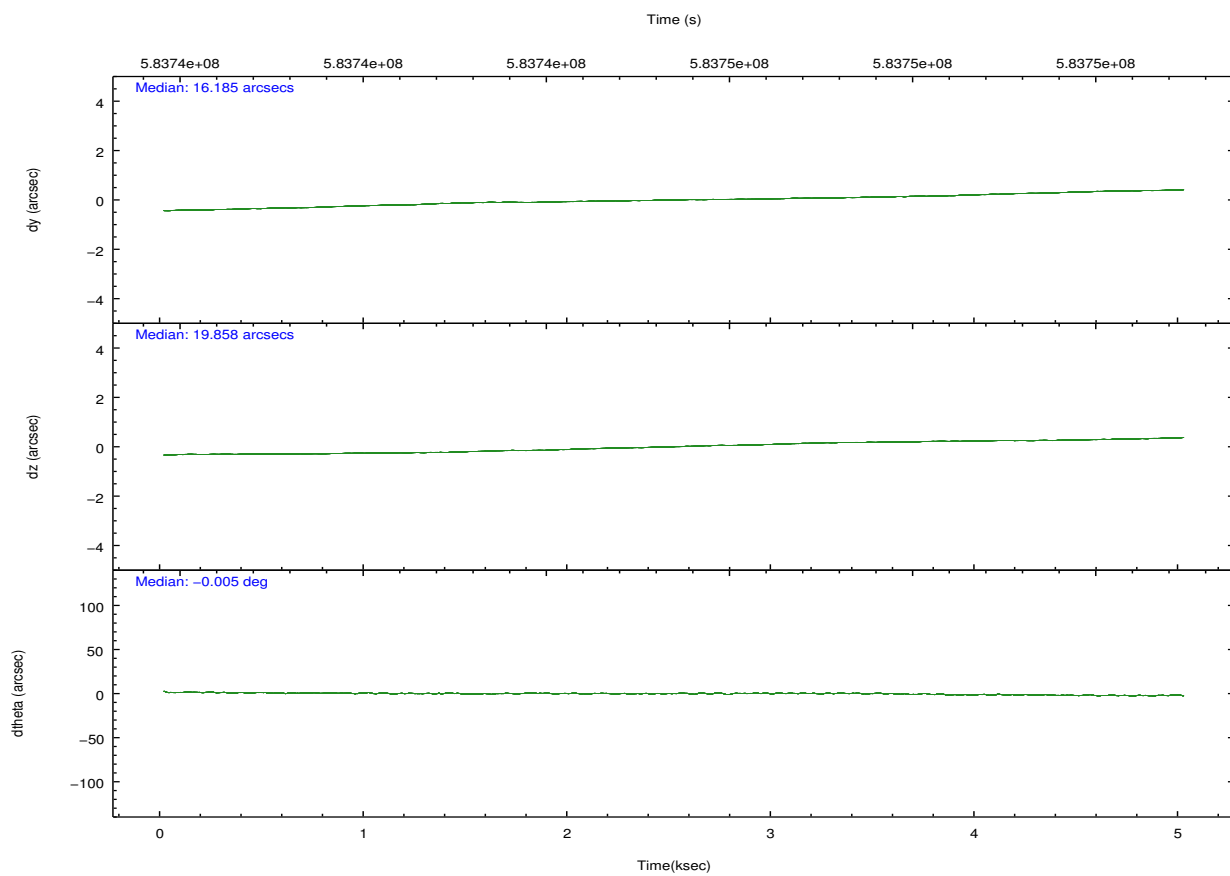
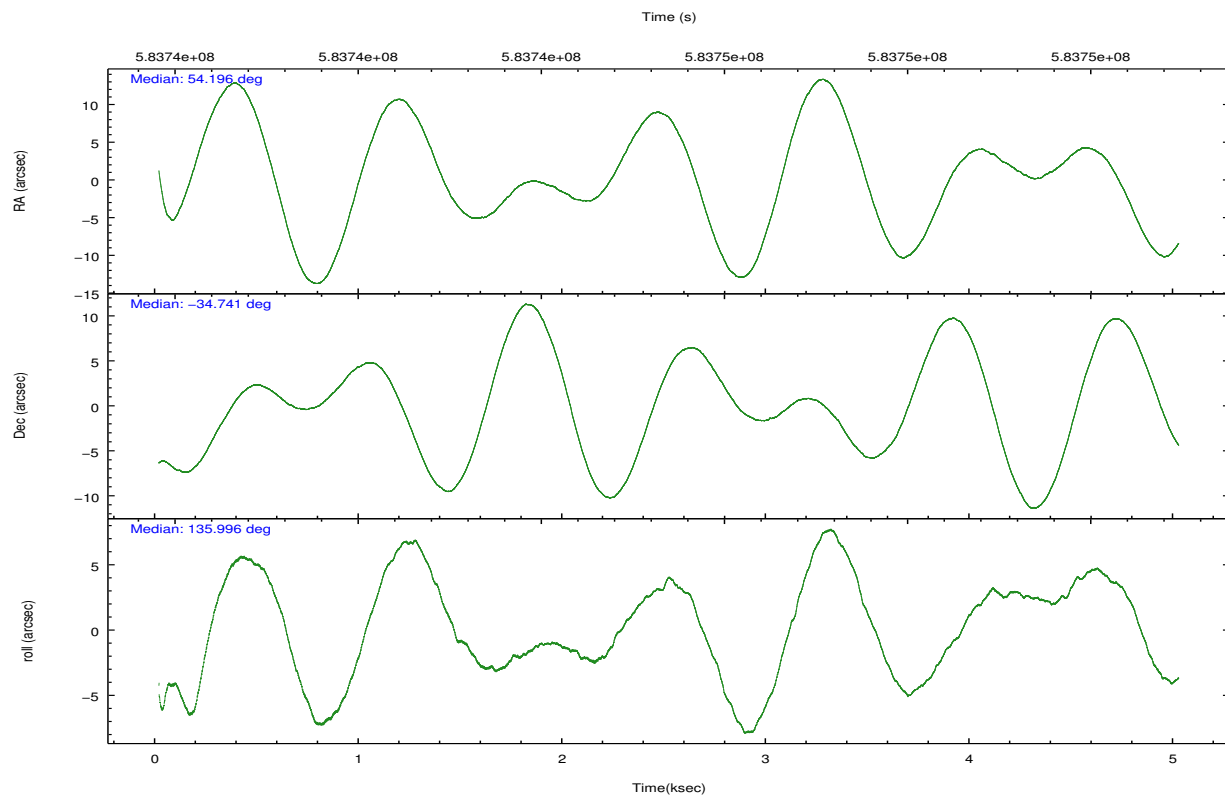
	ccd 6	ccd 7	ccd 8
grade 0 events	1197	1554	3281
	3%	3%	8%
grade 1 events	11	51	33
	0%	0%	0%
grade 2 events	858	3679	2703
	2%	9%	6%
grade 3 events	395	1346	1091
	1%	3%	2%
grade 4 events	378	1329	1038
	1%	3%	2%
grade 5 events	1456	3917	2259
	4%	9%	5%
grade 6 events	884	9831	2799
	2%	24%	6%
grade 7 events	28041	18933	27799
	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	54.228037	54.19551570416384	CCD I2 on	N	N
[deg] Pointing Dec	-34.747438	-34.741184835418	CCD I3 on	N	N
[deg] Pointing Roll	135.865760	136.0038273064523	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	583743328.184000	583741679.87406	CCD S5 on	N	N
Observation start date	2016-07-01T06:54:20	2016-07-01T06:27:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	583748199.184000	583748418.22445	On-chip summing requested	N	N
Observation end date	2016-07-01T08:15:31	2016-07-01T08:20:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



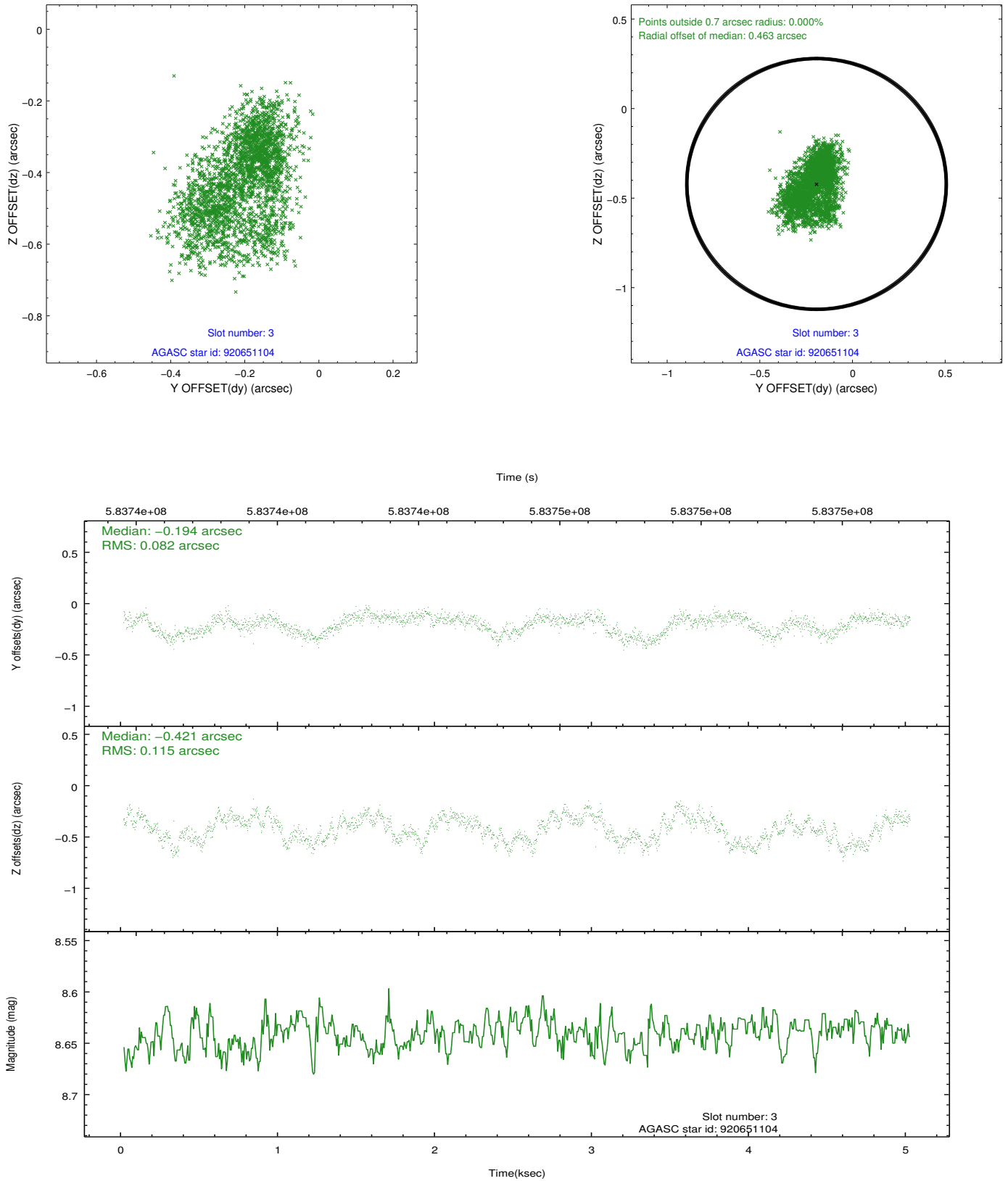


Slot Statistics

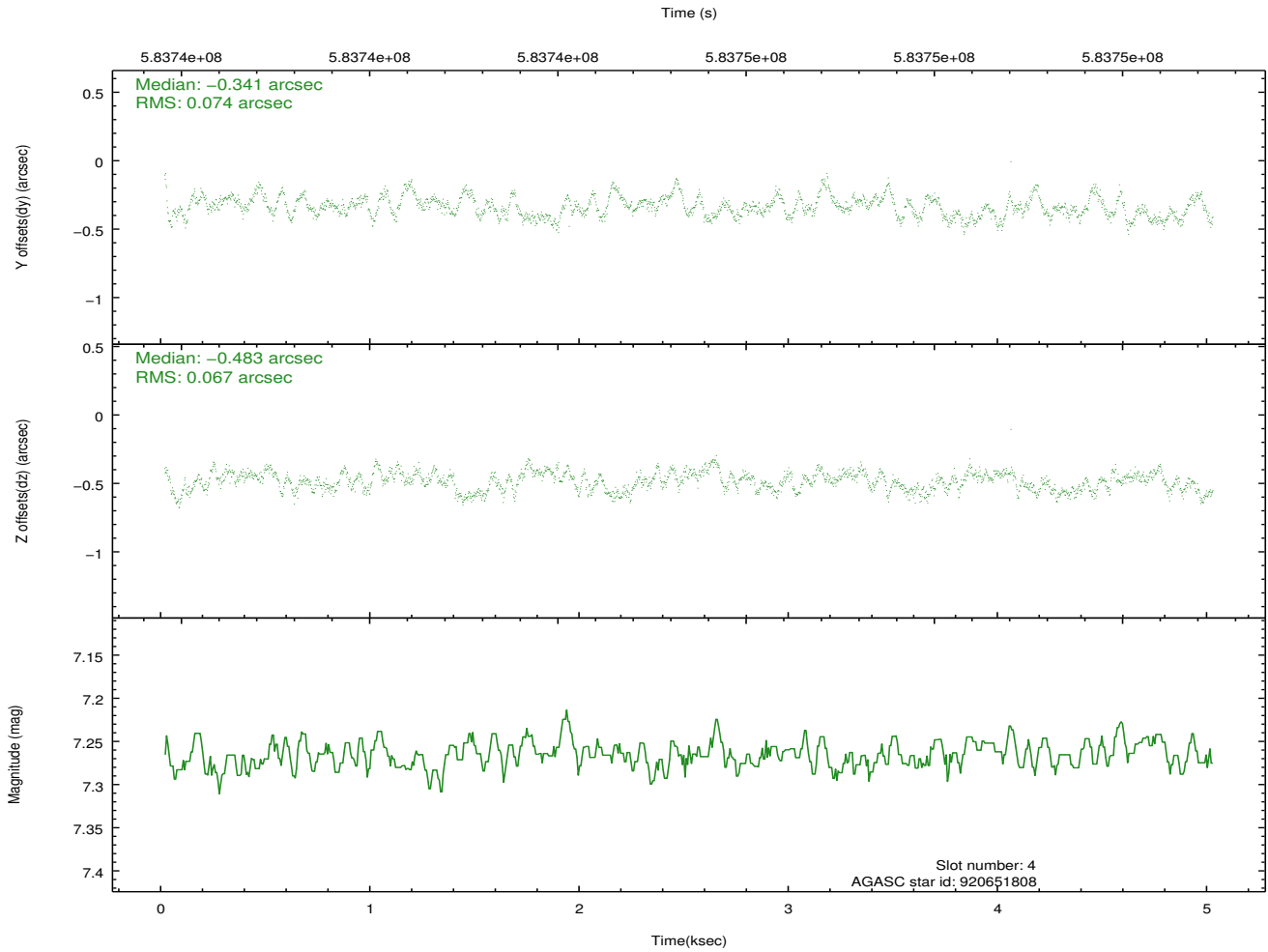
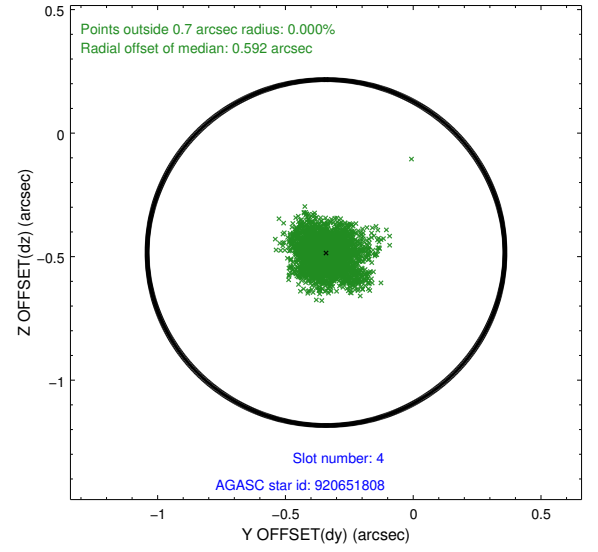
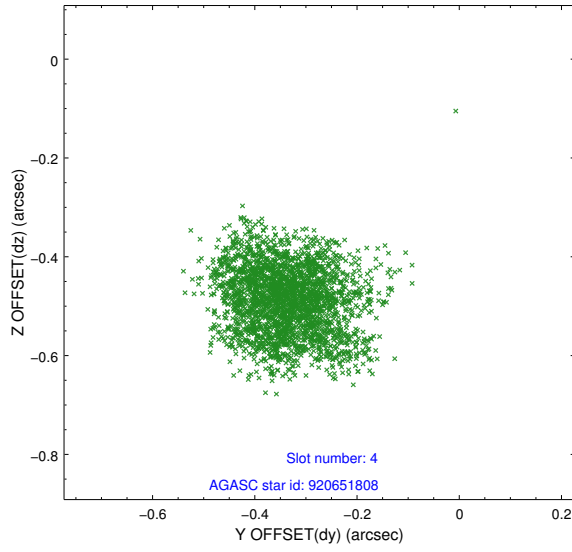
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1222	-0.207	-0.107	0.011	0.019	0.000000	0.000000	-769.36	-1741.43
1	FID		ACIS-S-4	7.23	1222	0.467	0.128	0.009	0.017	0.000000	0.000000	2144.01	166.06
2	FID		ACIS-S-5	7.23	1222	-0.291	-0.013	0.010	0.016	0.000000	0.000000	-1820.76	160.92
3	GUIDE	used	920651104	8.64	2444	-0.194	-0.421	0.154	0.233	53.495721	-34.796351	1425.55	1639.65
4	GUIDE	used	920651808	7.27	2445	-0.341	-0.483	0.107	0.168	53.624364	-34.832415	1063.44	1466.72
5	GUIDE	used	921575528	7.95	2443	0.206	0.524	0.093	0.143	55.012292	-34.549755	-1179.95	-2121.11
6	GUIDE	used	921575736	8.51	2443	0.233	0.212	0.091	0.150	54.586331	-34.827401	-961.61	-530.22
7	GUIDE	used	921569984	8.97	2440	0.118	0.179	0.147	0.239	54.380660	-33.949644	1672.94	-2378.23

2.4 Star Slots

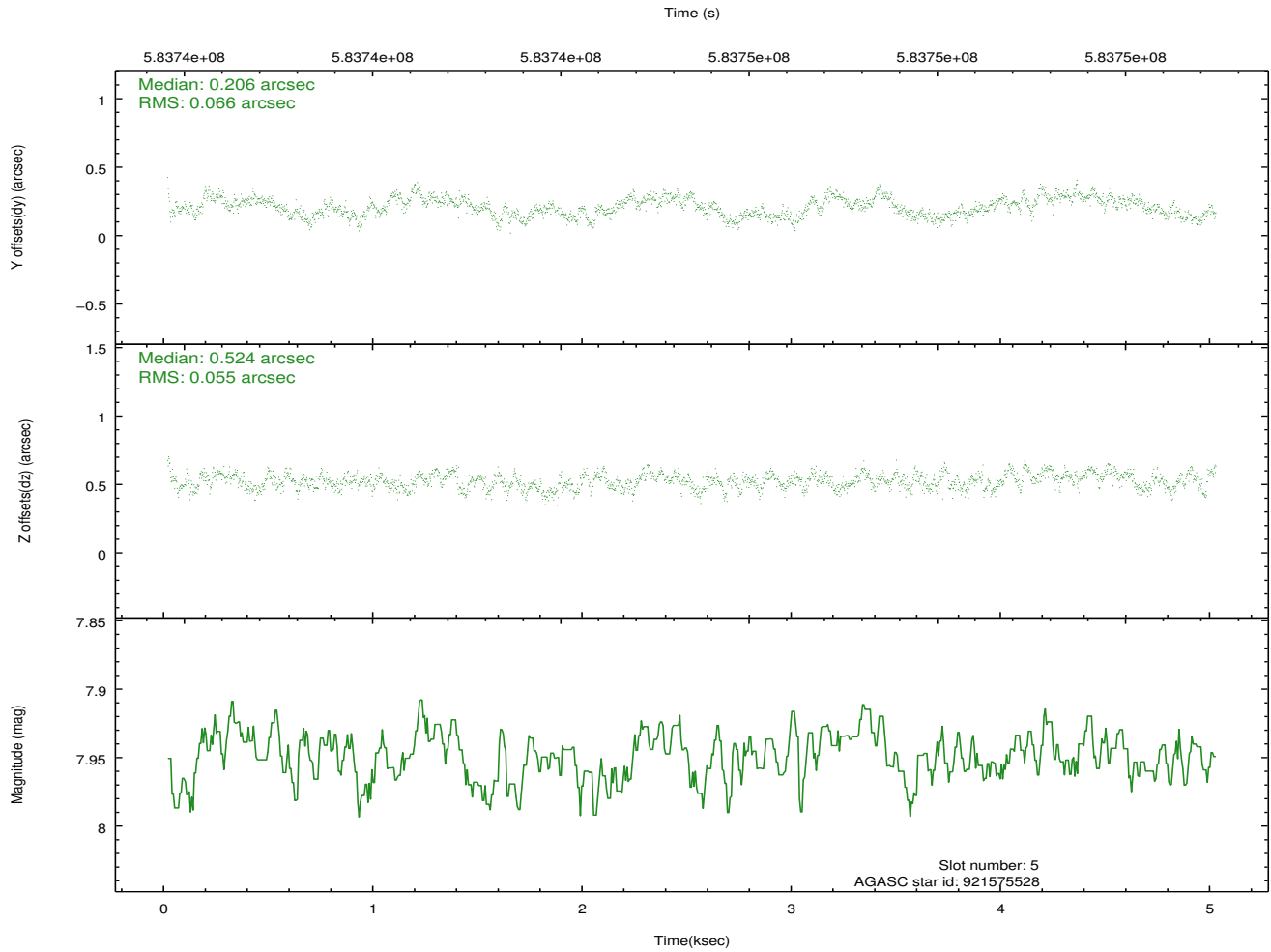
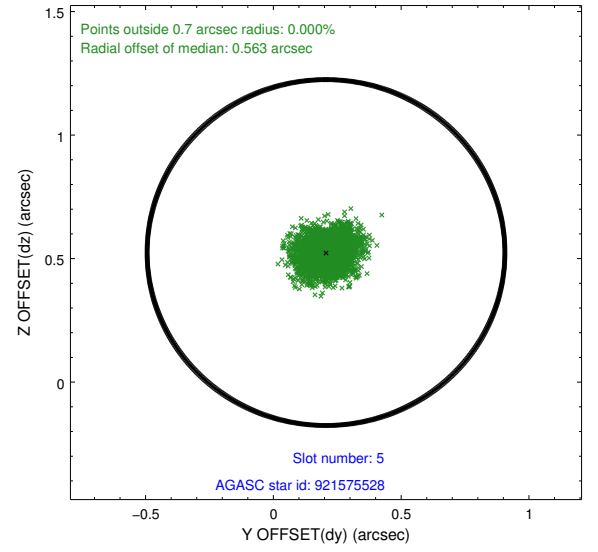
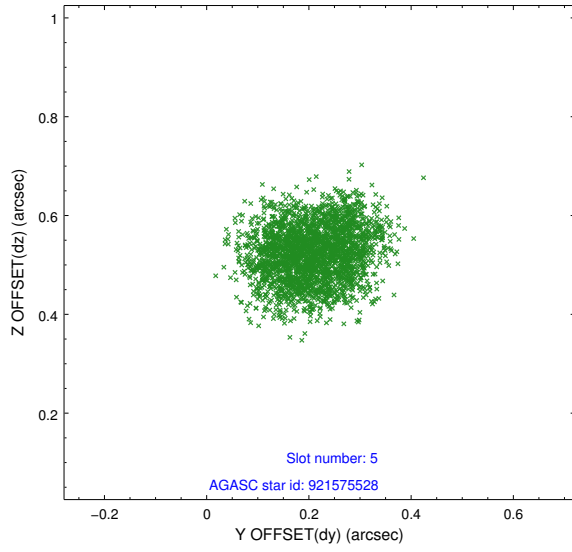
2.4.1 Slot 3



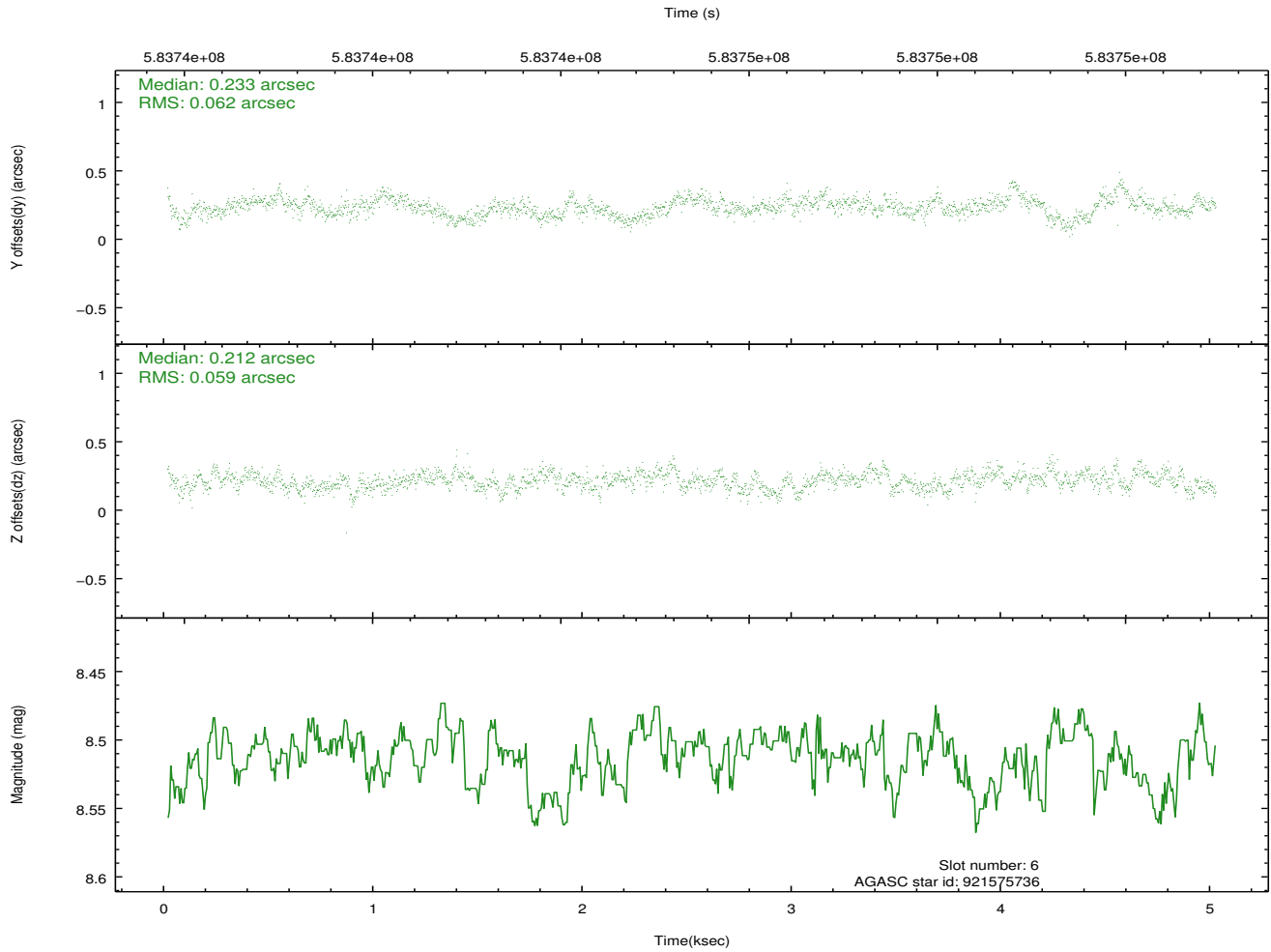
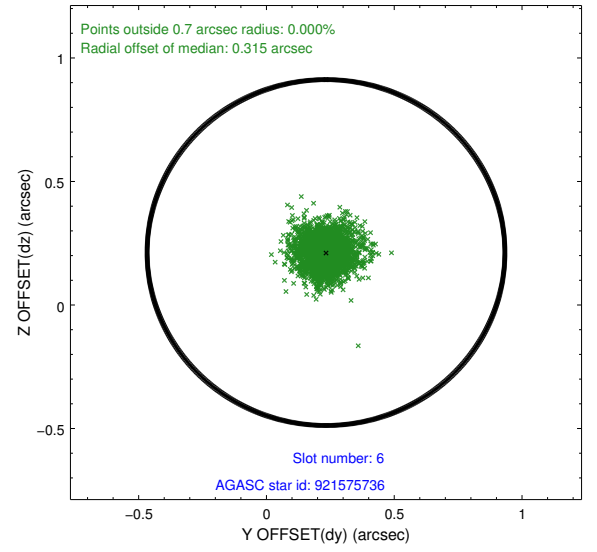
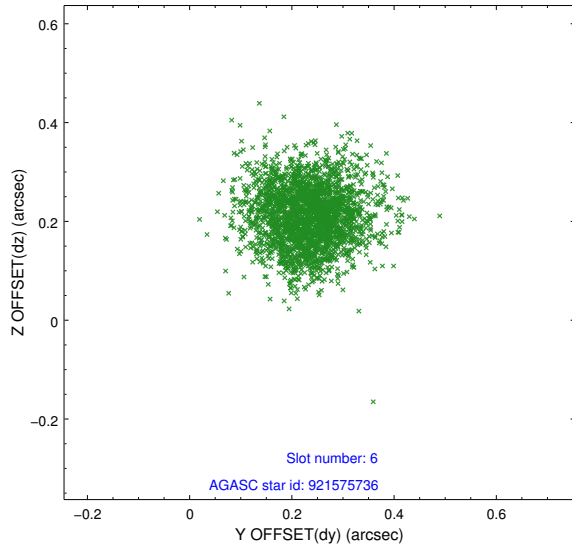
2.4.2 Slot 4



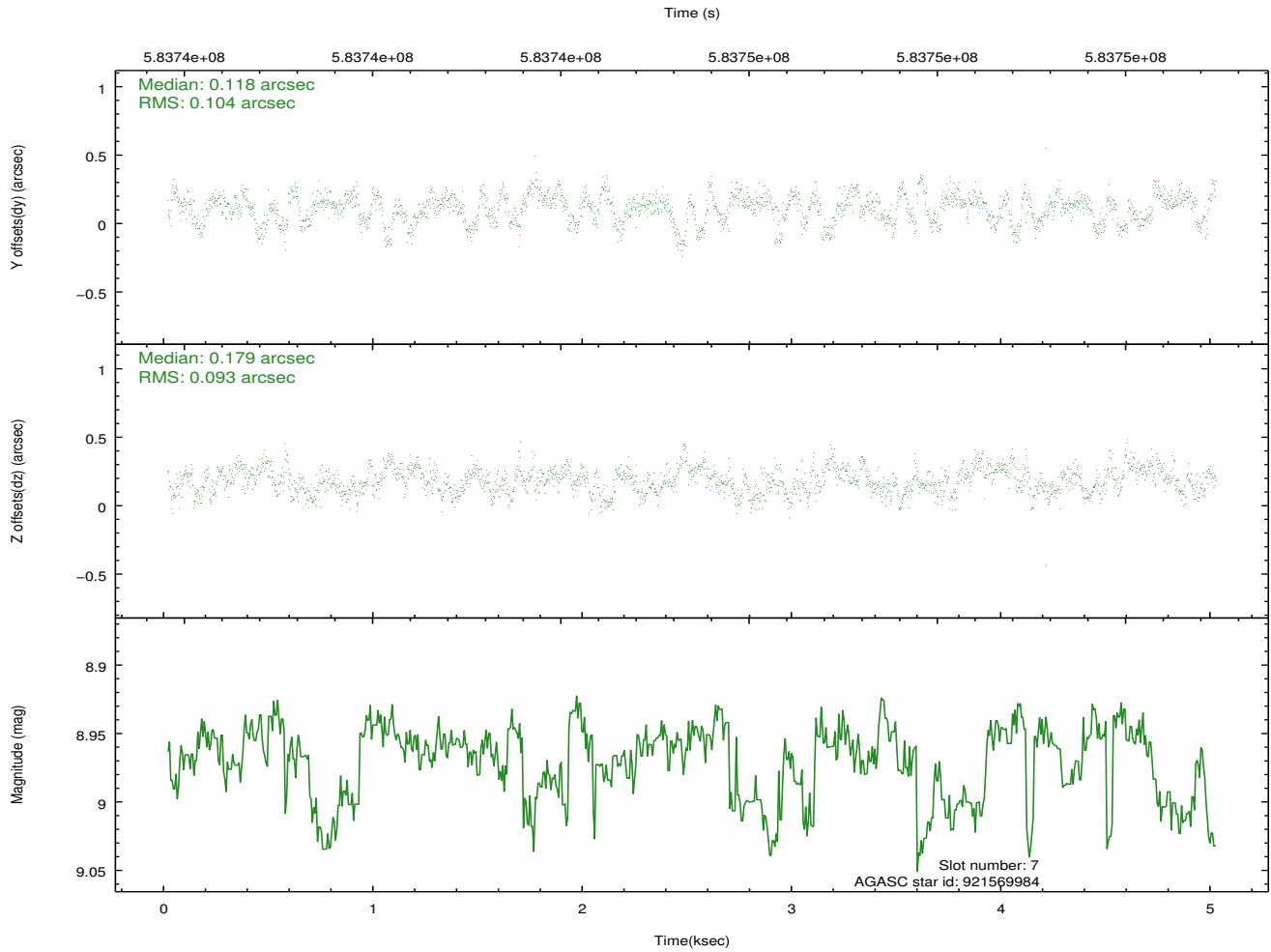
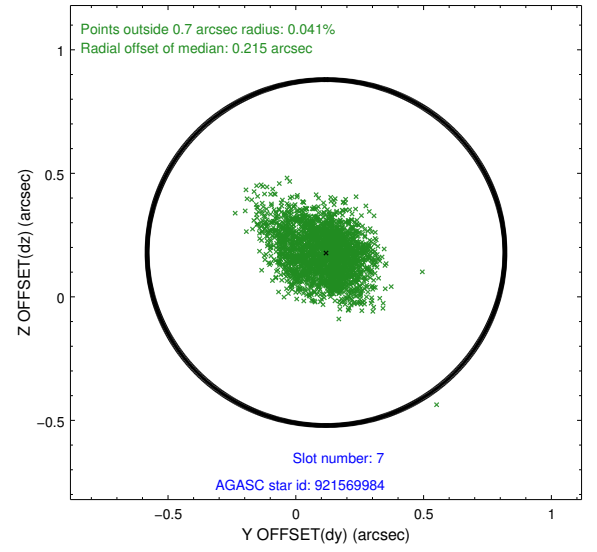
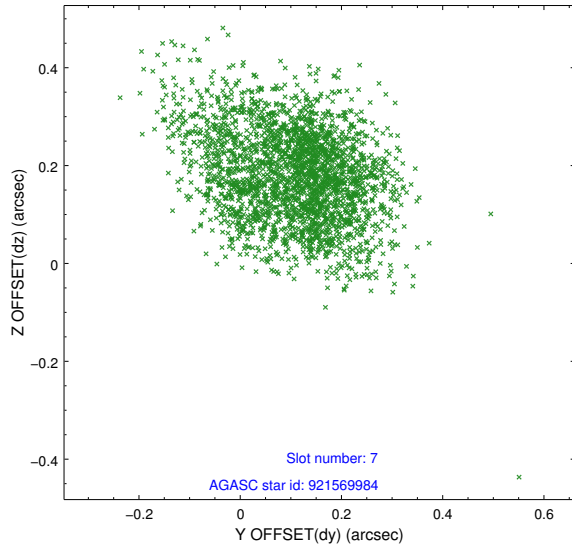
2.4.3 Slot 5



2.4.4 Slot 6

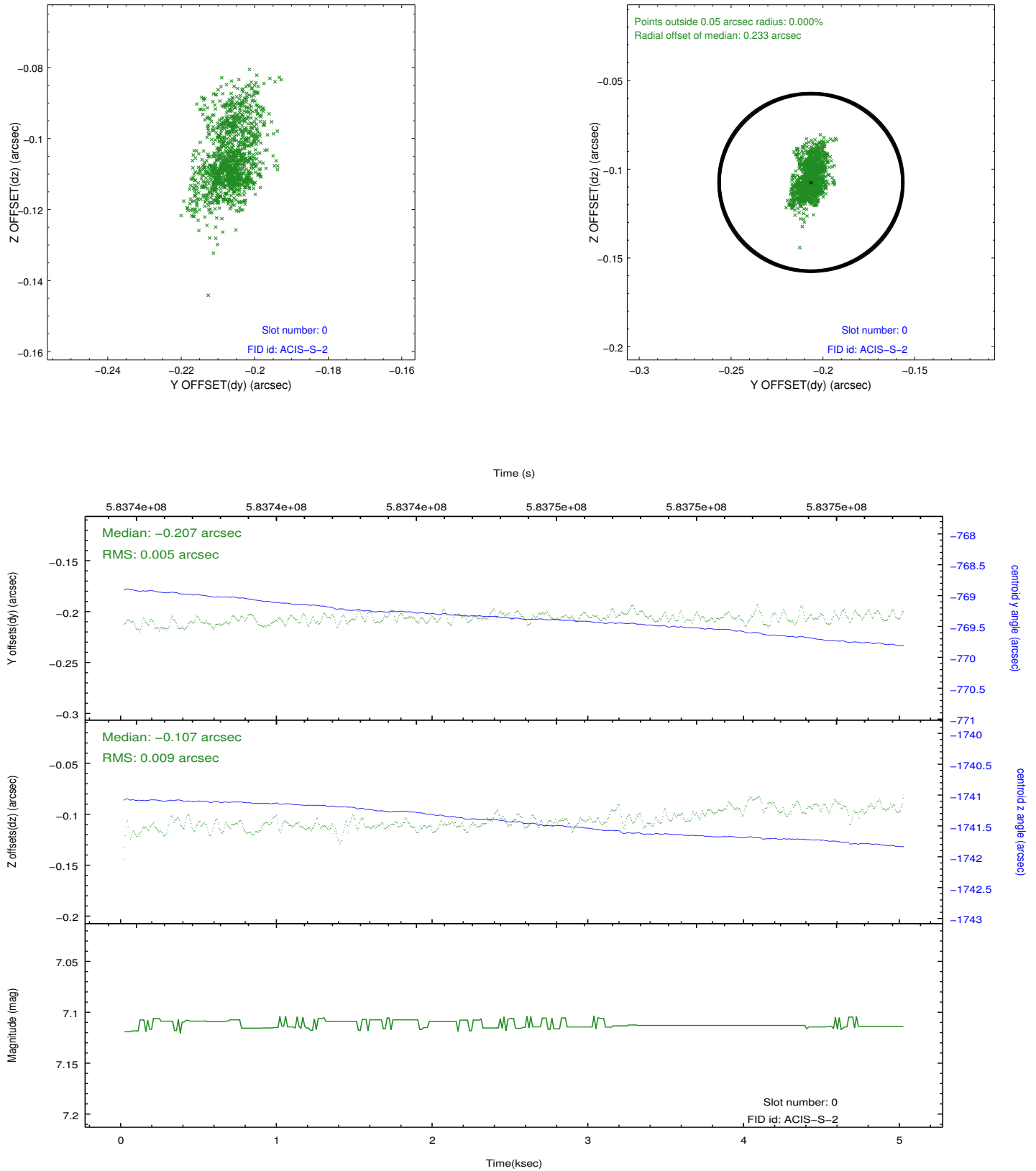


2.4.5 Slot 7

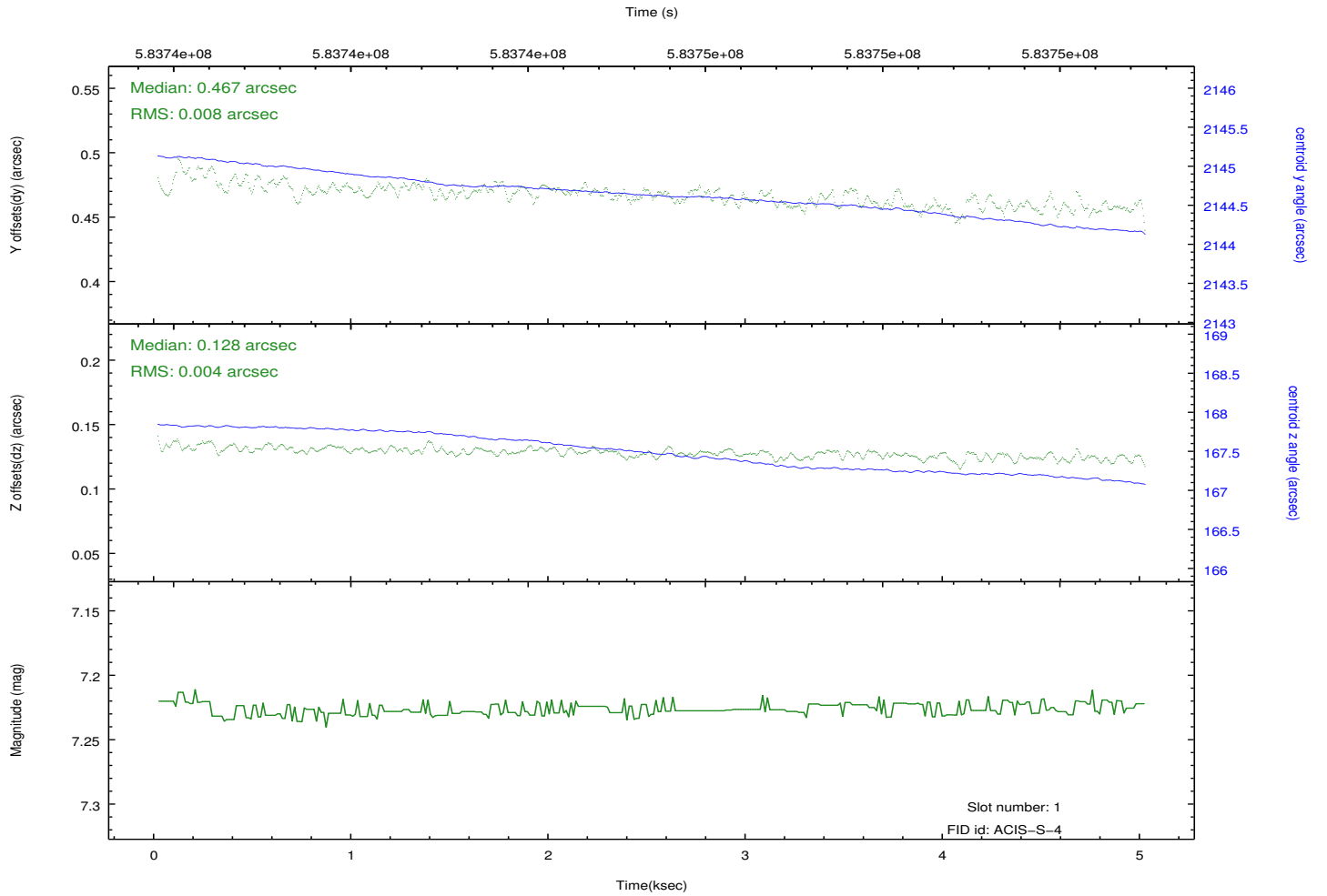
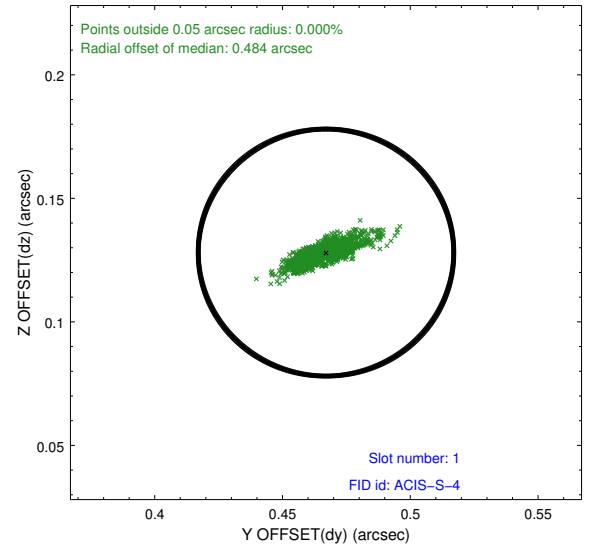
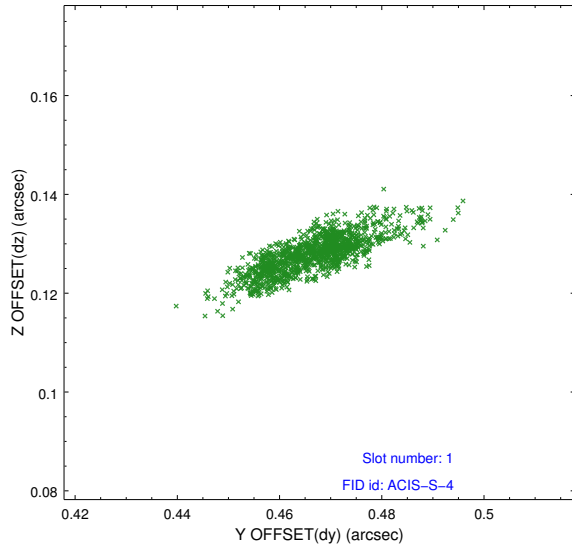


2.5 FID Slots

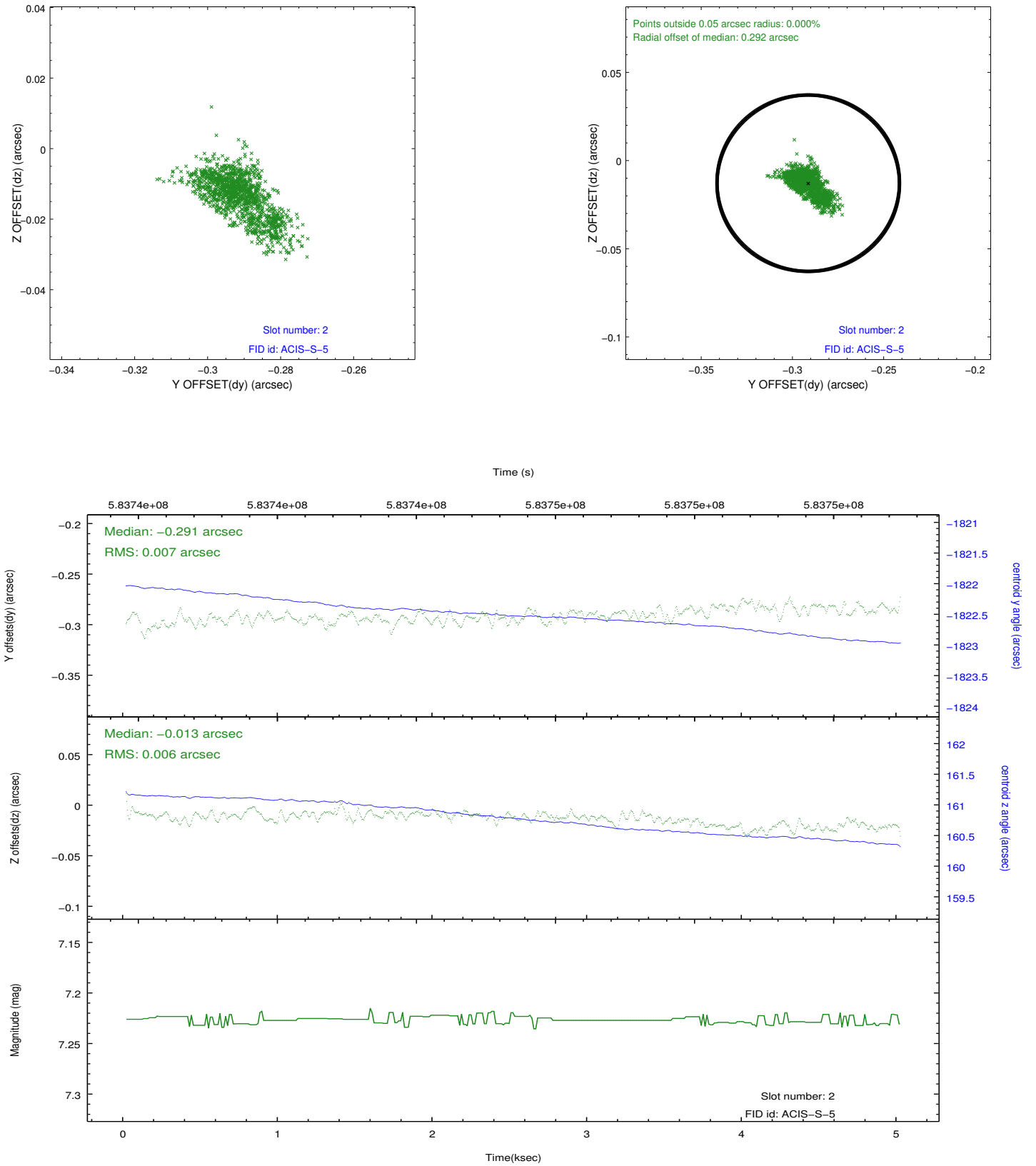
2.5.1 Slot 0



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)	2016.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9842900624275

A.2 Comments