

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 16769 - L2 Version 1
Chandra X-Ray Center

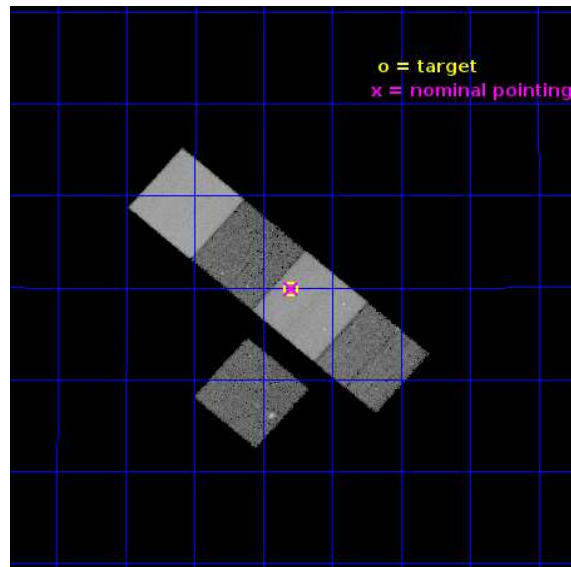
L2 Processing Date : Dec 21 2015

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1 Front

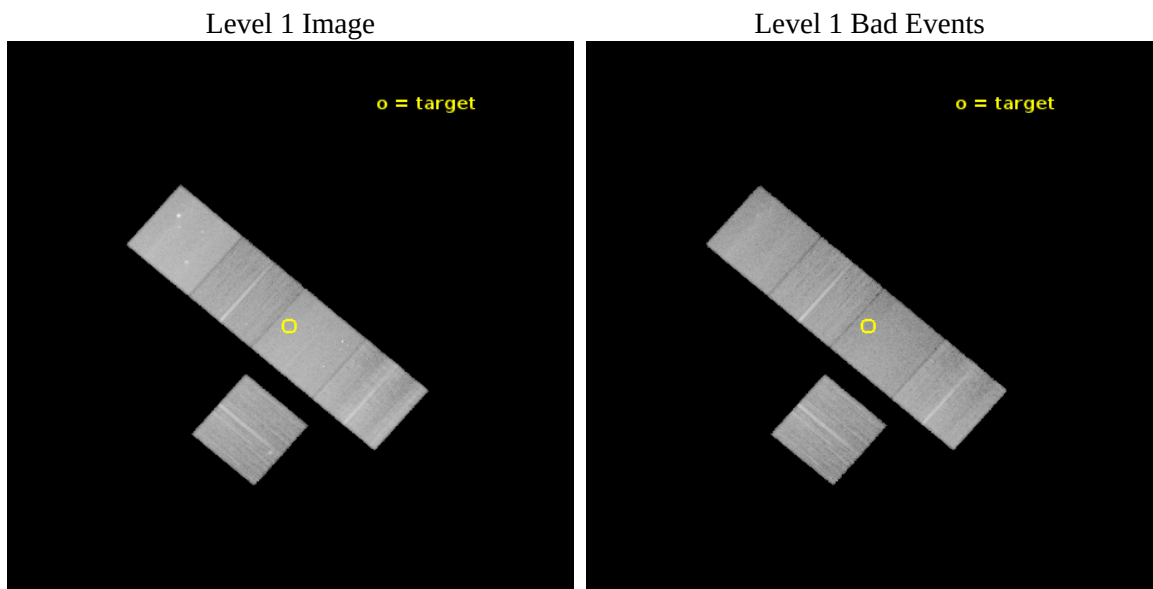
seq_num	502287	Sequence number
obs_id	16769	Observation id
title	Mapping the Zoo of engine driven explosions with late-time X-rays	
observer	Dr Raffaella Margutti	Principal investigator
object	GRB150518A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.201042	Observer's specified target RA [deg]
dec_targ	16.329806	Observer's specified target Dec [deg]
ra_nom	234.19937463779	Nominal RA [deg]
dec_nom	16.331582538458	Nominal Dec [deg]
roll_nom	40.834946411792	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35033.100269556	Sum of GTIs [s]
livetime	34575.367023541	Livetime [s]
ontime3	35033.100269556	Sum of GTIs [s]
ontime5	35033.100269556	Sum of GTIs [s]
ontime6	35029.959329247	Sum of GTIs [s]
ontime7	35033.100269556	Sum of GTIs [s]
ontime8	35033.100269556	Sum of GTIs [s]
l2events	315065	Number of level 2 events



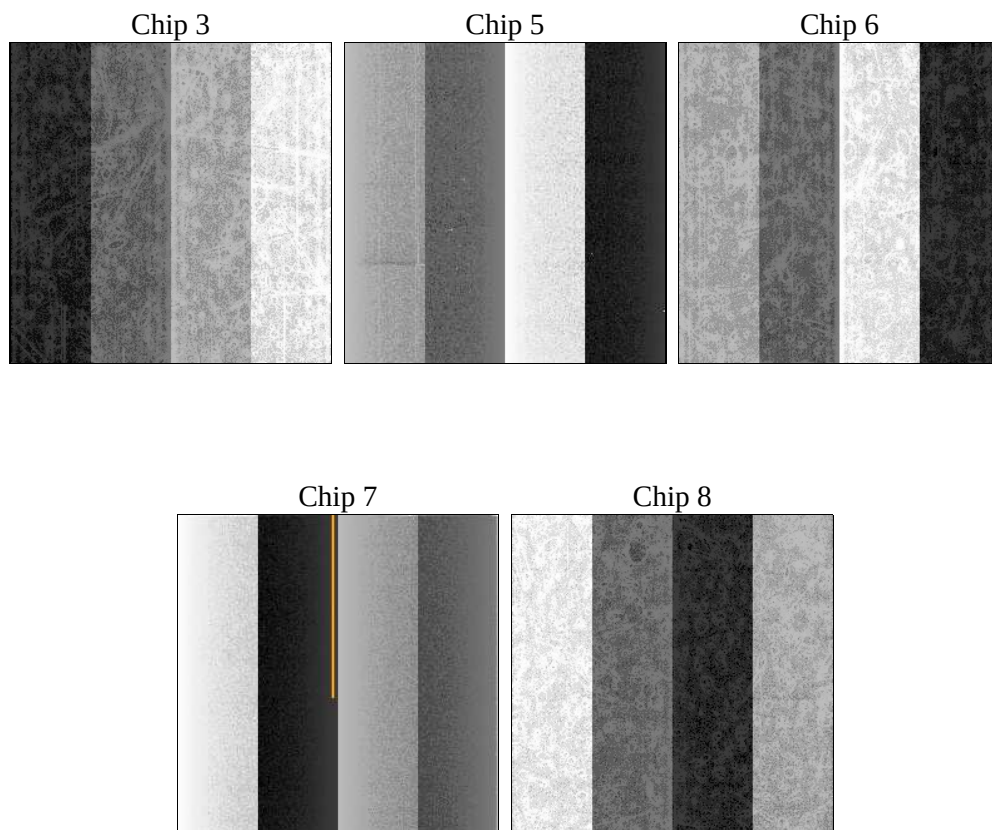
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	35033.100269556	Sum of GTIs [s]
caldsver	4.7.0	 	ontime3	35033.100269556	Sum of GTIs [s]
date	2015-12-21T16:17:58	Date and time of file creation	ontime5	35033.100269556	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	35029.959329247	Sum of GTIs [s]
			ontime7	35033.100269556	Sum of GTIs [s]
			ontime8	35033.100269556	Sum of GTIs [s]
			l1events	1213839	Number of level 1 events

2.1.4 Events

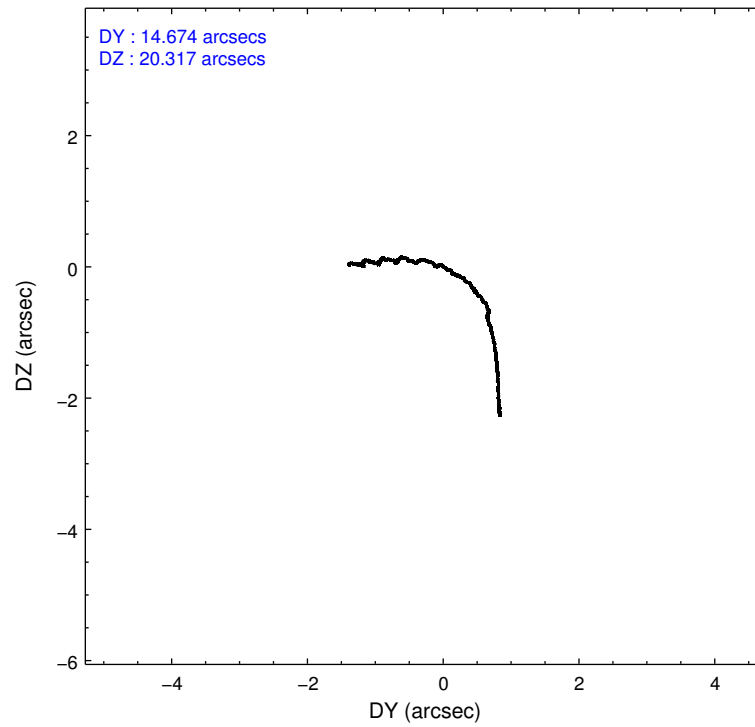
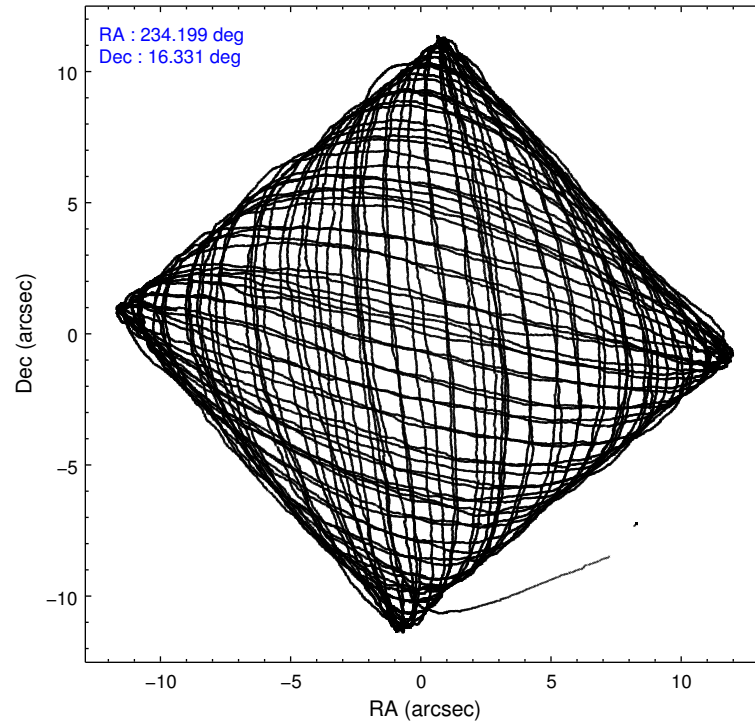
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	189448	312016	196576	257198	258601
rejected events	167549	162819	173889	145701	190107
rejected %	88%	52%	88%	56%	73%

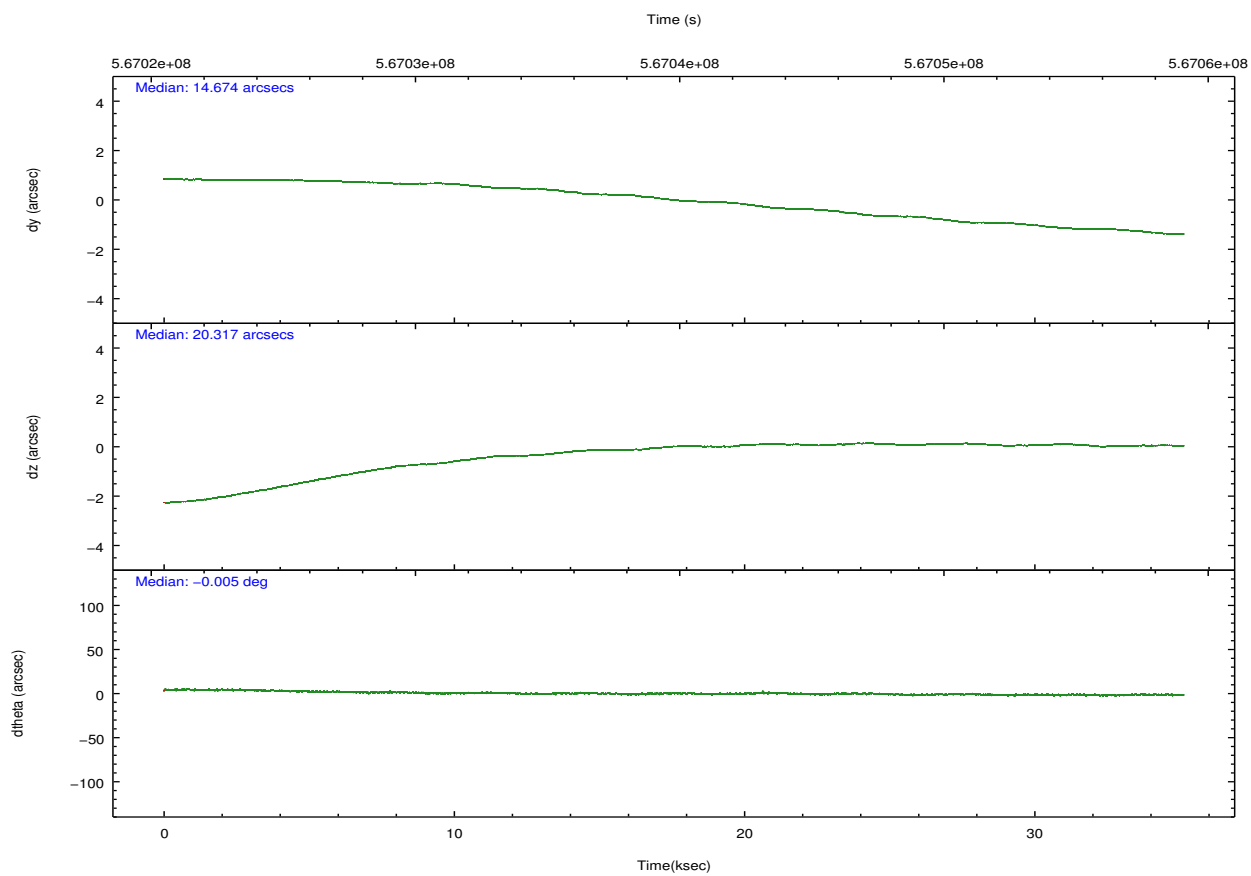
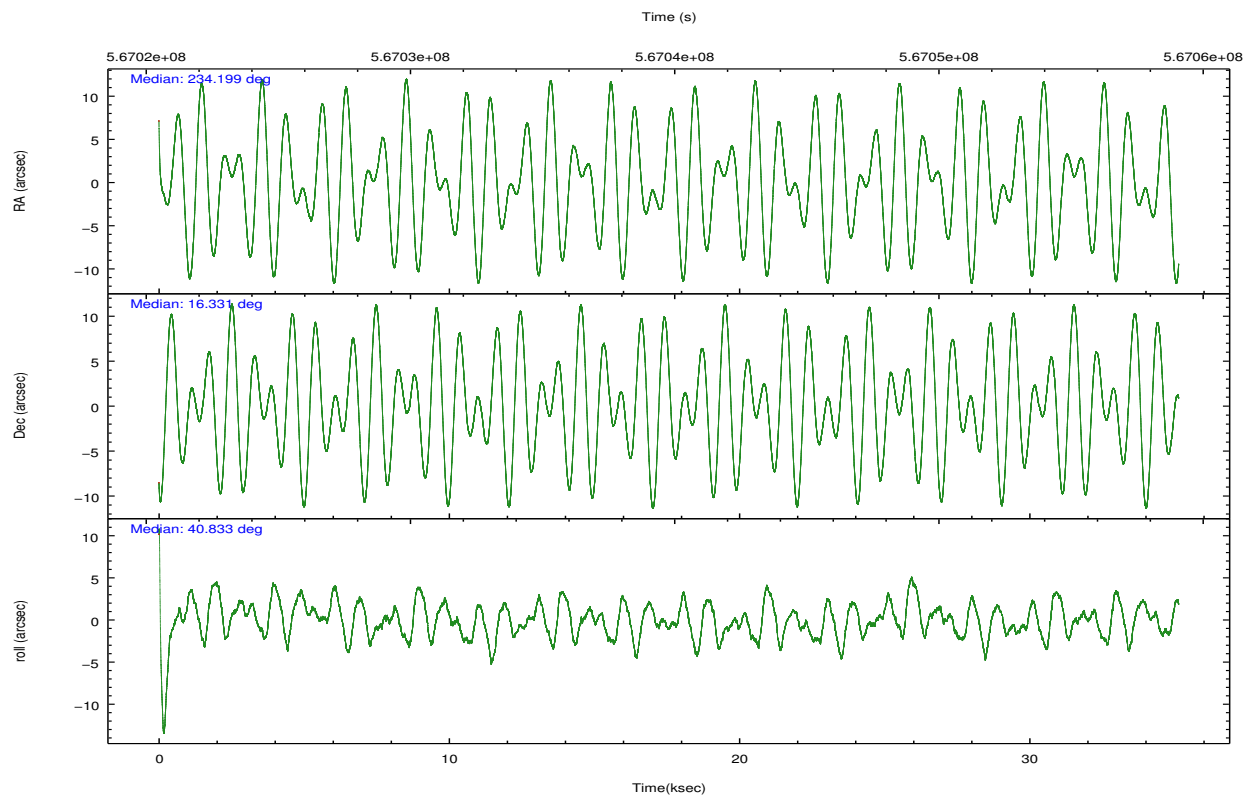
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	8367	11410	7652	9928	20205
	4%	3%	3%	3%	7%
grade 1 events	94	777	102	307	209
	0%	0%	0%	0%	0%
grade 2 events	4588	45984	5321	23332	16371
	2%	14%	2%	9%	6%
grade 3 events	2168	4896	2193	8822	6847
	1%	1%	1%	3%	2%
grade 4 events	2306	4673	2261	8895	6605
	1%	1%	1%	3%	2%
grade 5 events	9534	21824	9285	25179	13969
	5%	6%	4%	9%	5%
grade 6 events	4474	82244	5260	60527	18470
	2%	26%	2%	23%	7%
grade 7 events	157917	140208	164502	120208	175925
	83%	44%	83%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	234.190349	234.1993746377928	CCD I2 on	N	N
[deg] Pointing Dec	16.305546	16.33158253845783	CCD I3 on	O1	Y
[deg] Pointing Roll	40.680846	40.83494641179241	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	567022335.184000	567021140.47219	CCD S5 on	N	N
Observation start date	2015-12-20T18:11:07	2015-12-20T17:52:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	567057335.184000	567057876.98678	On-chip summing requested	N	N
Observation end date	2015-12-21T03:54:27	2015-12-21T04:04:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



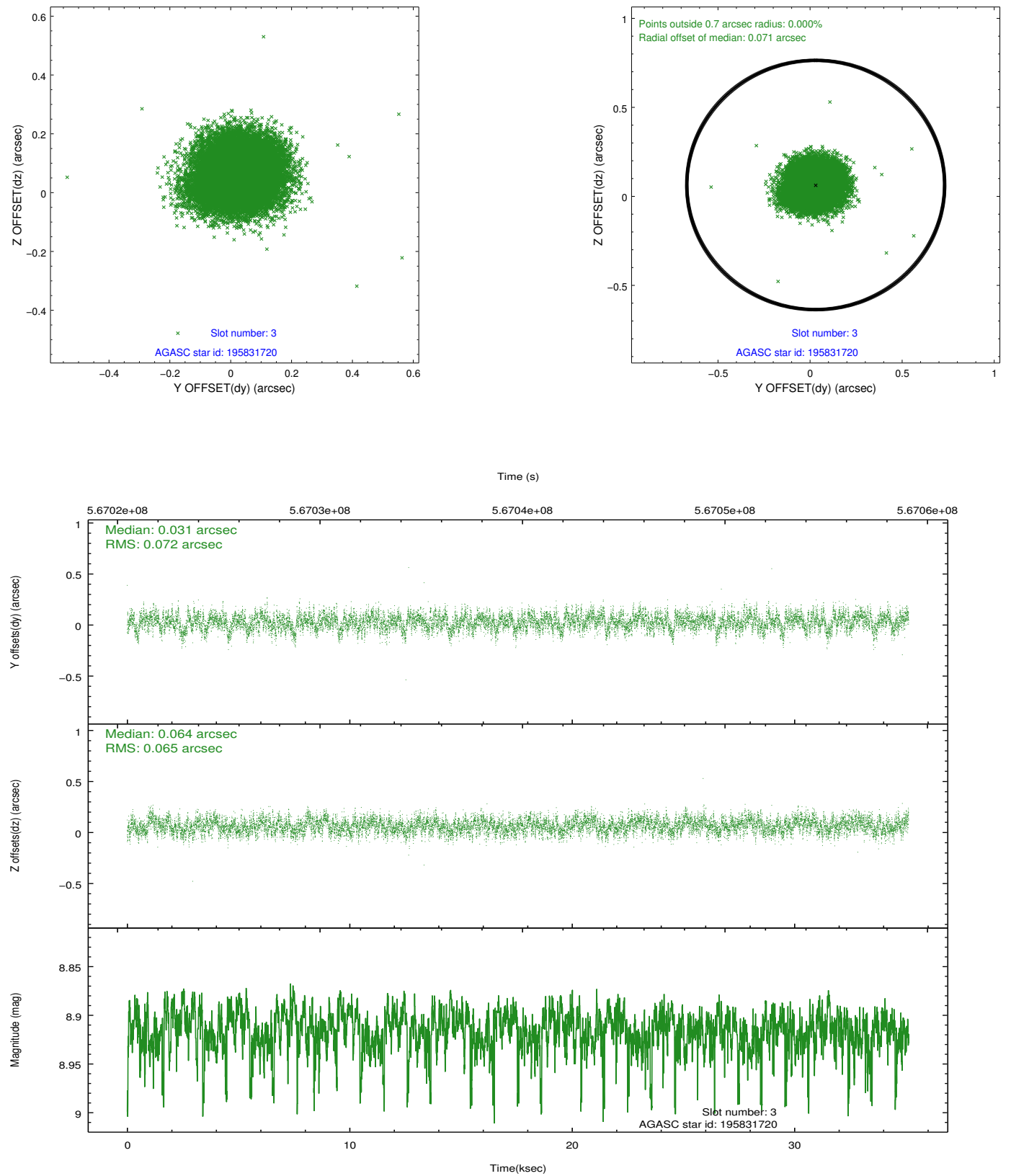


Slot Statistics

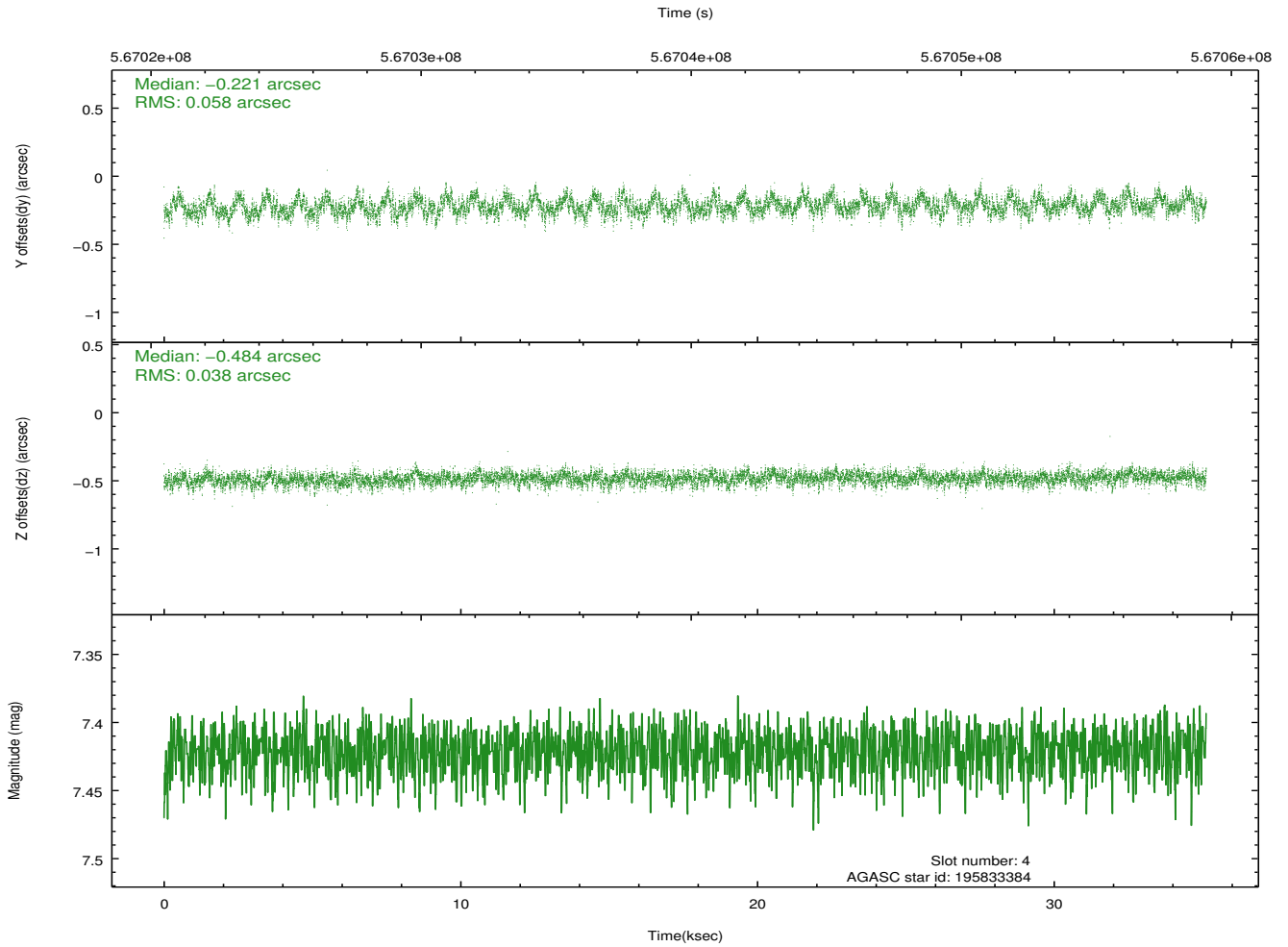
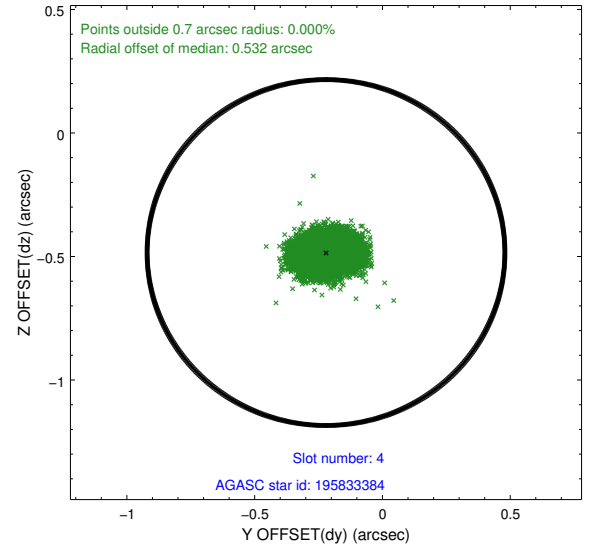
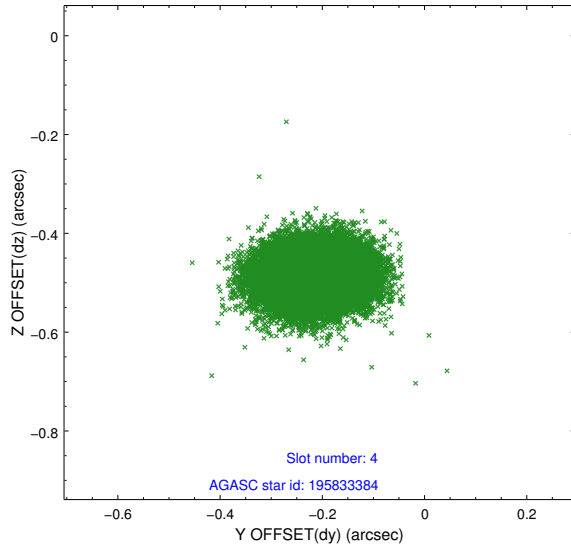
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	8570	-0.189	-0.095	0.041	0.060	0.000000	0.000000	-767.73	-1741.46
1	FID		ACIS-S-4	7.21	8570	0.439	0.123	0.020	0.056	0.000000	0.000000	2146.13	167.22
2	FID		ACIS-S-5	7.23	8569	-0.280	-0.011	0.016	0.047	0.000000	0.000000	-1820.63	160.78
3	GUIDE	used	195831720	8.92	17130	0.031	0.064	0.104	0.165	234.611496	16.424151	1381.96	-620.59
4	GUIDE	used	195833384	7.42	17138	-0.221	-0.484	0.073	0.120	234.388986	16.529654	1045.62	164.94
5	GUIDE	used	195833816	8.35	17130	0.155	0.140	0.099	0.161	234.028497	15.839299	-1518.63	-907.17
6	GUIDE	used	195835976	8.15	17136	0.015	0.047	0.073	0.119	233.999860	16.109518	-959.59	-105.25
7	GUIDE	used	195964064	7.28	17137	0.019	0.234	0.072	0.119	234.916442	16.314013	1925.68	-1607.34

2.4 Star Slots

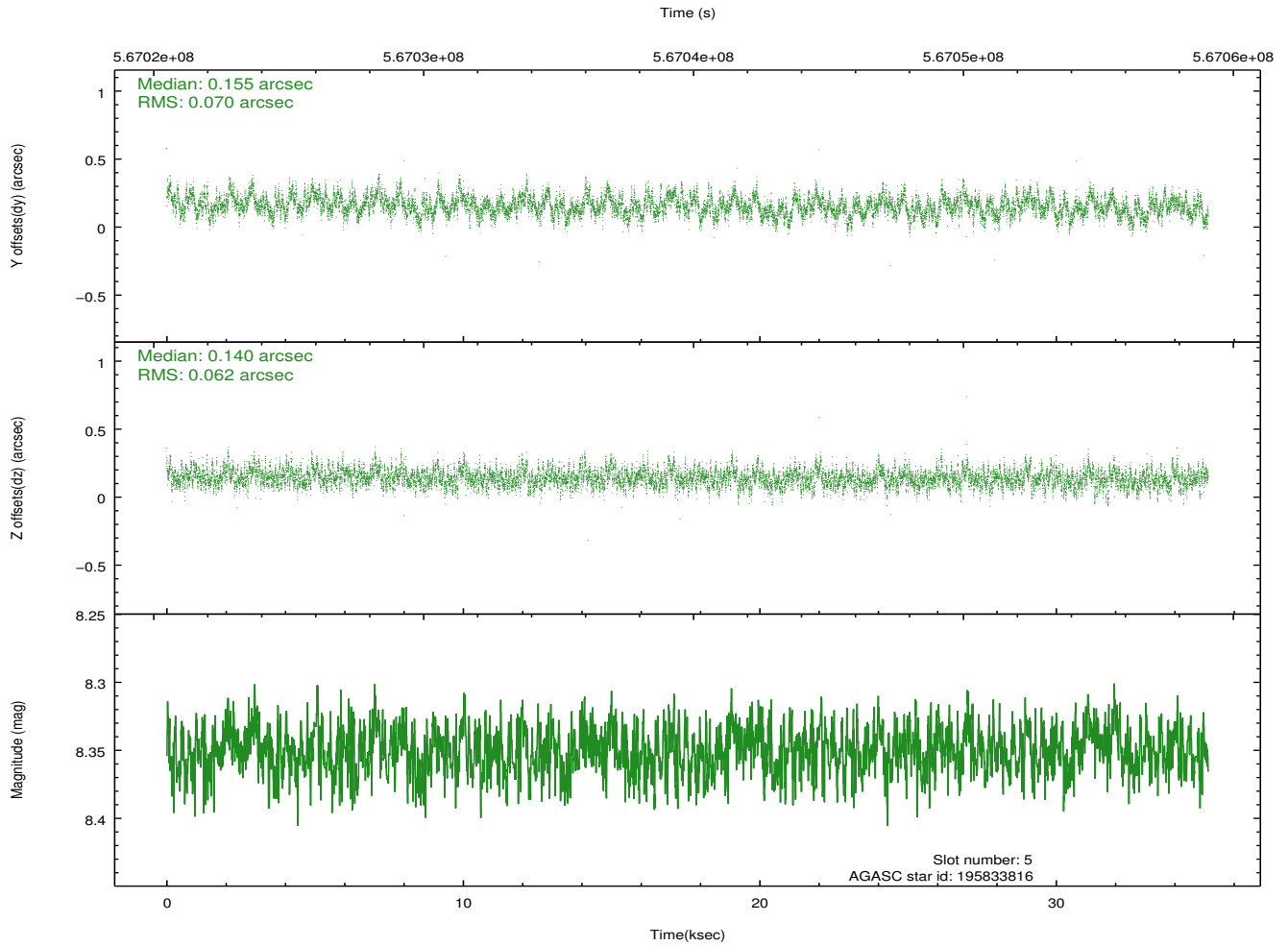
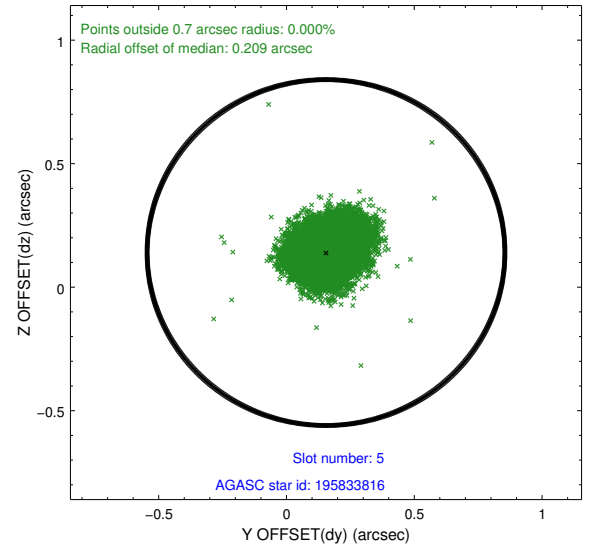
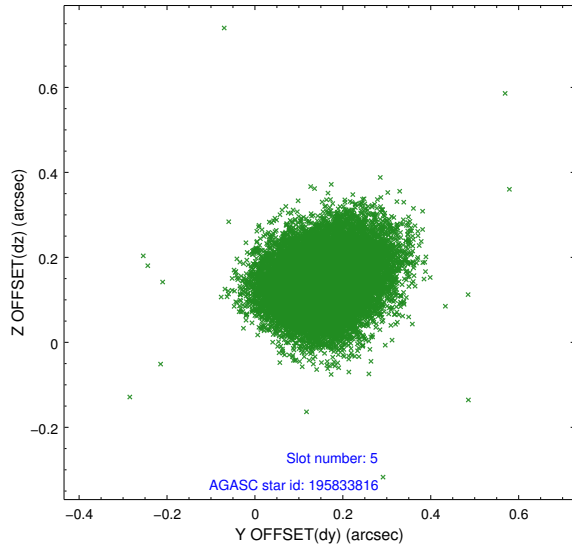
2.4.1 Slot 3



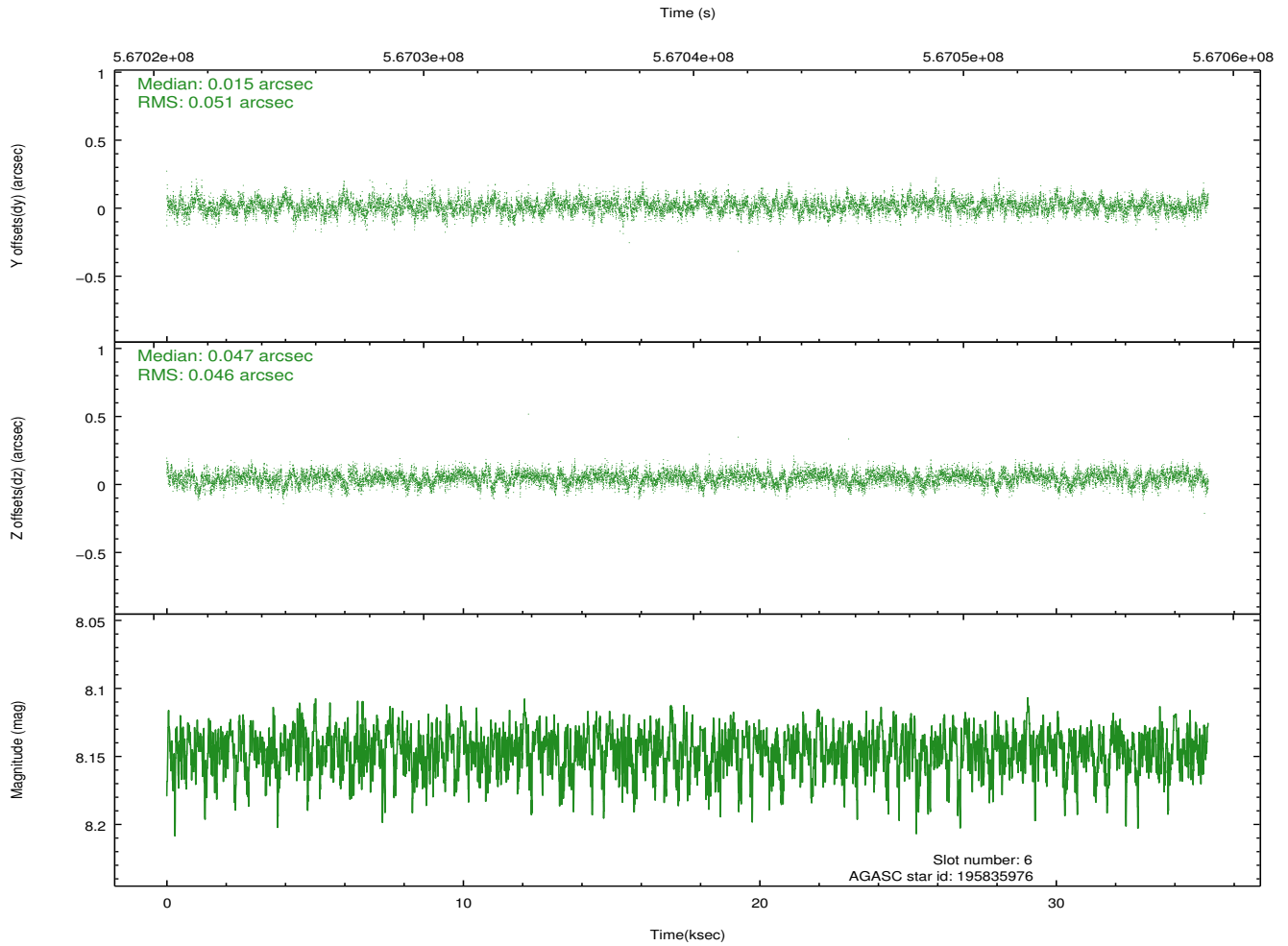
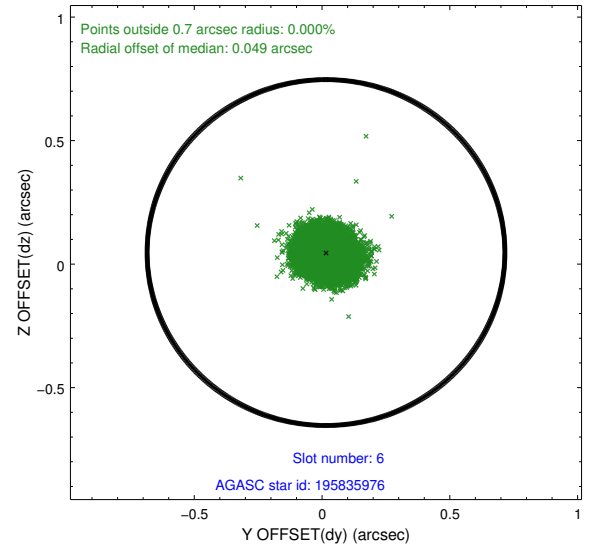
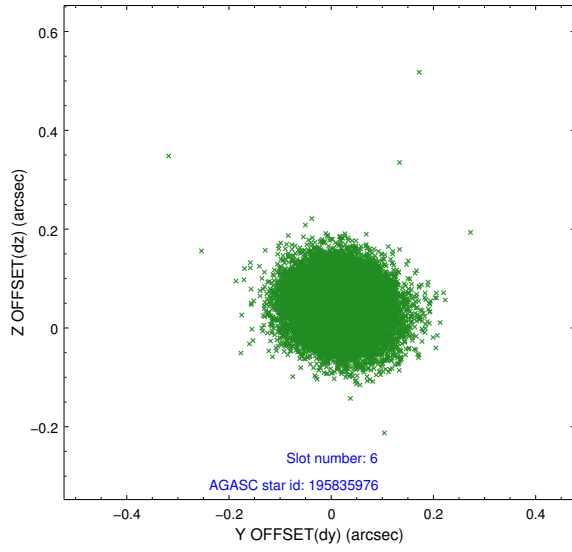
2.4.2 Slot 4



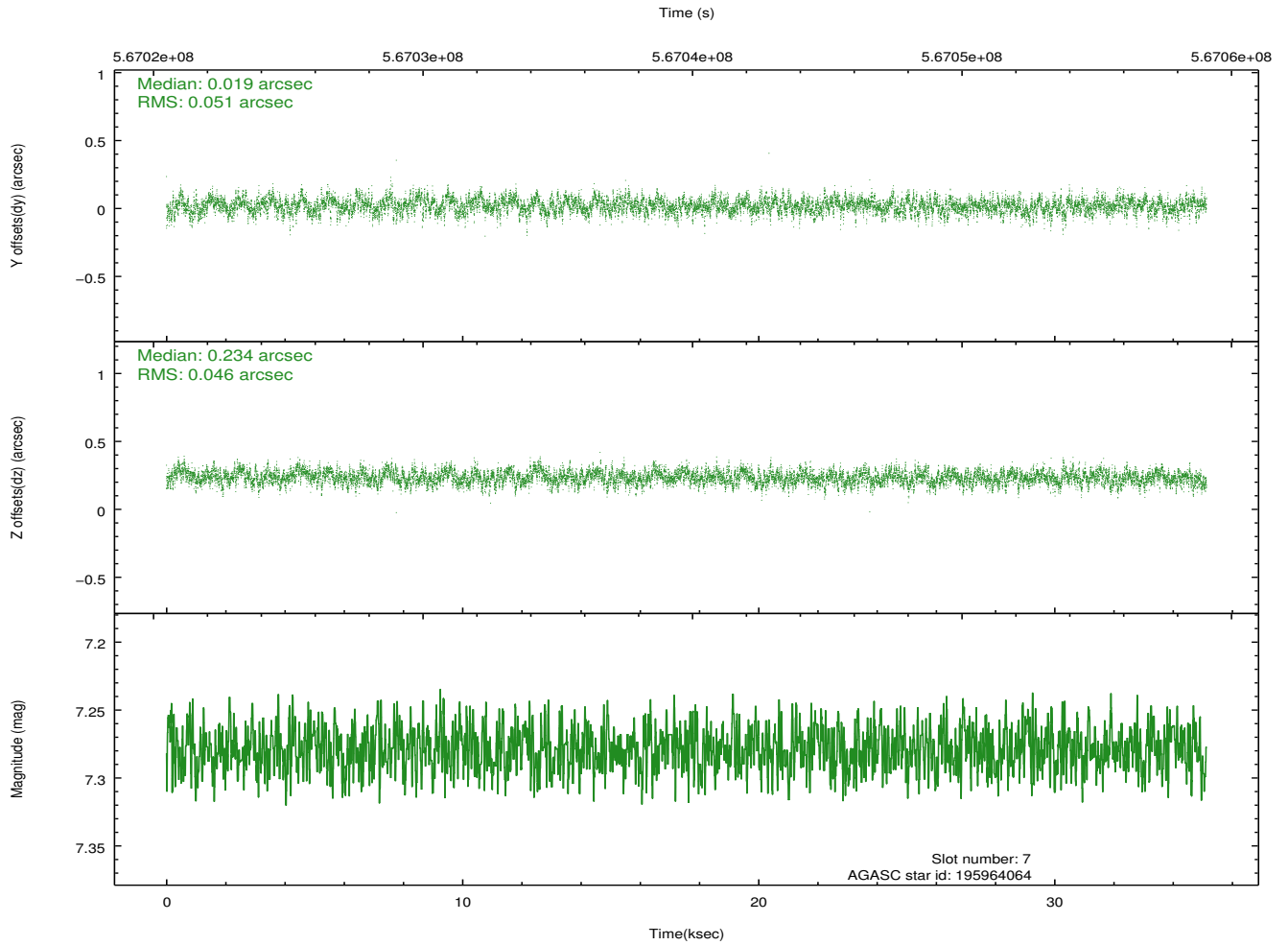
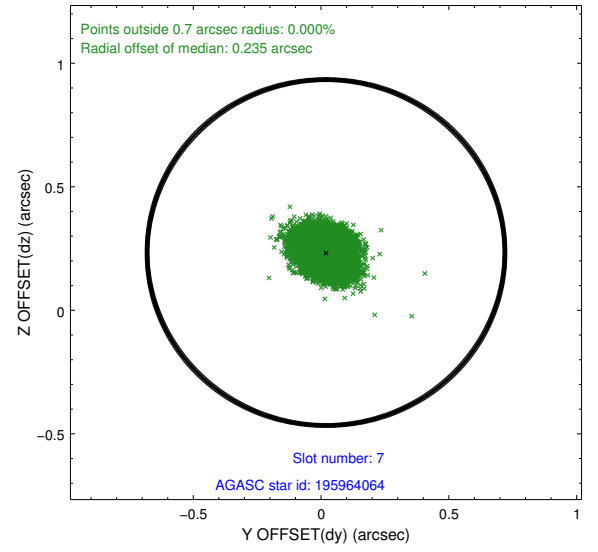
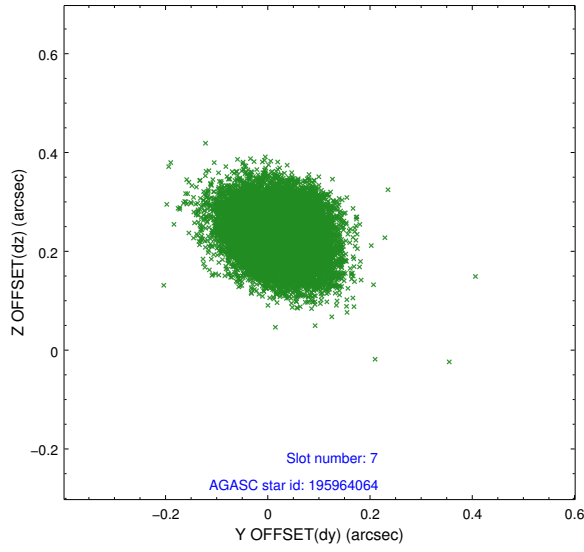
2.4.3 Slot 5



2.4.4 Slot 6

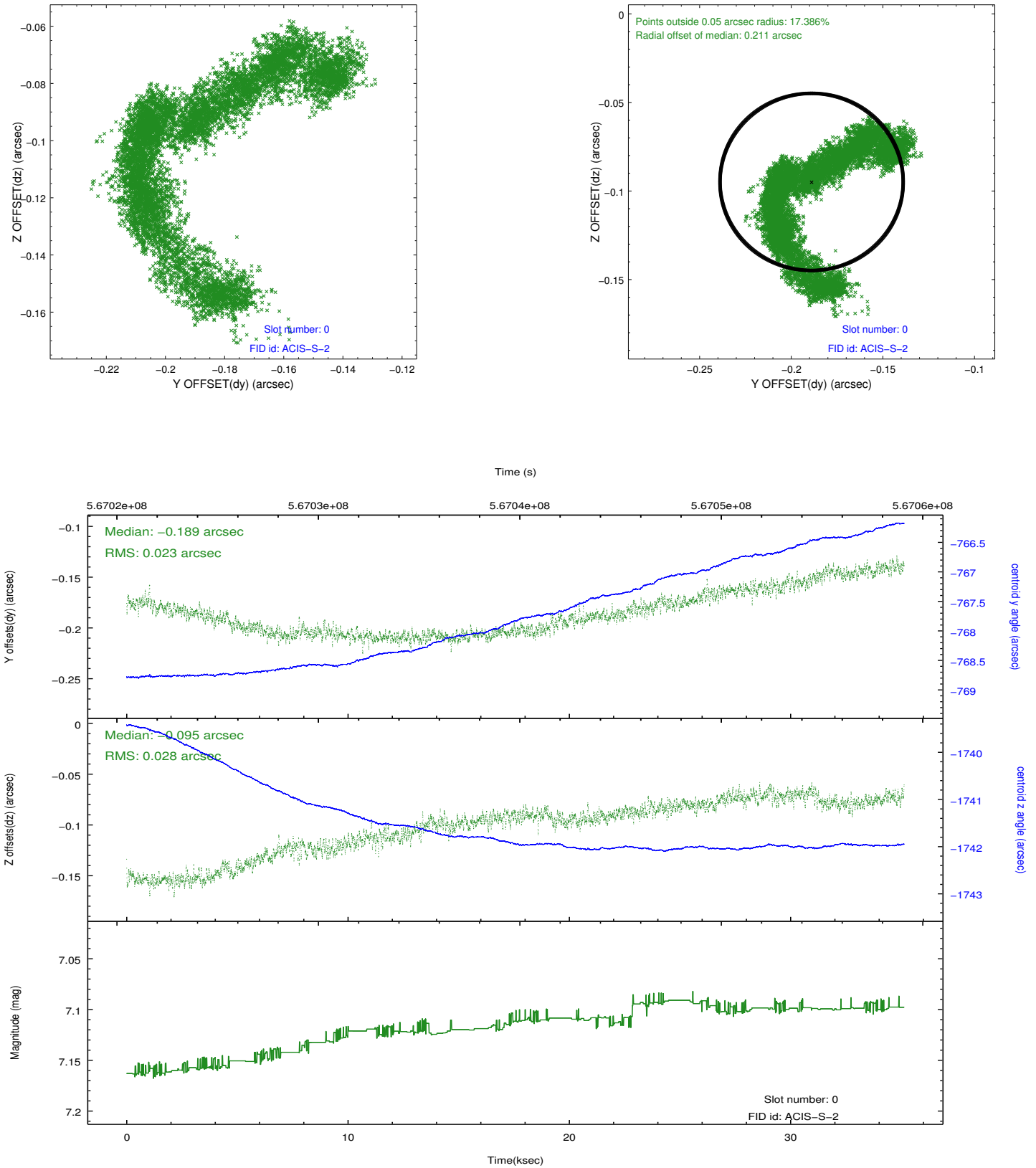


2.4.5 Slot 7

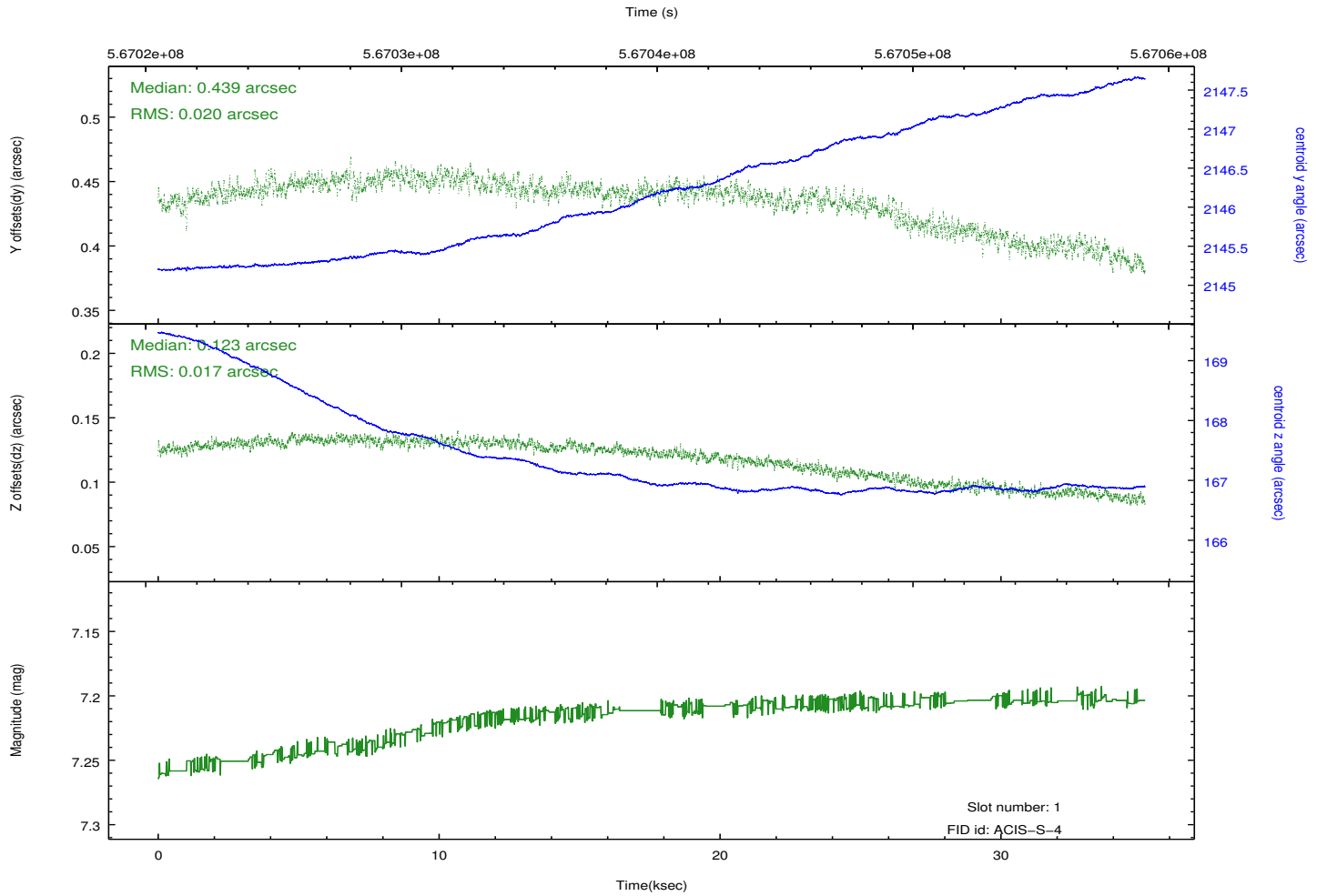
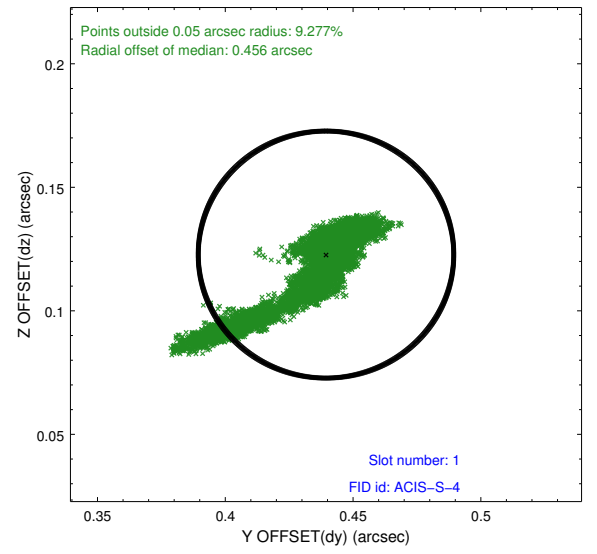
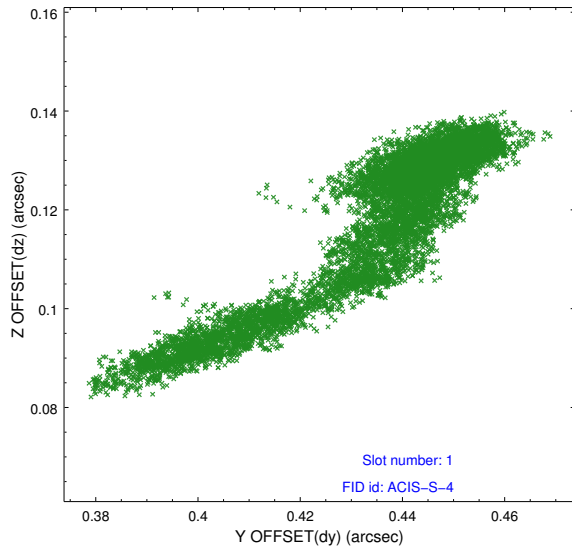


2.5 FID Slots

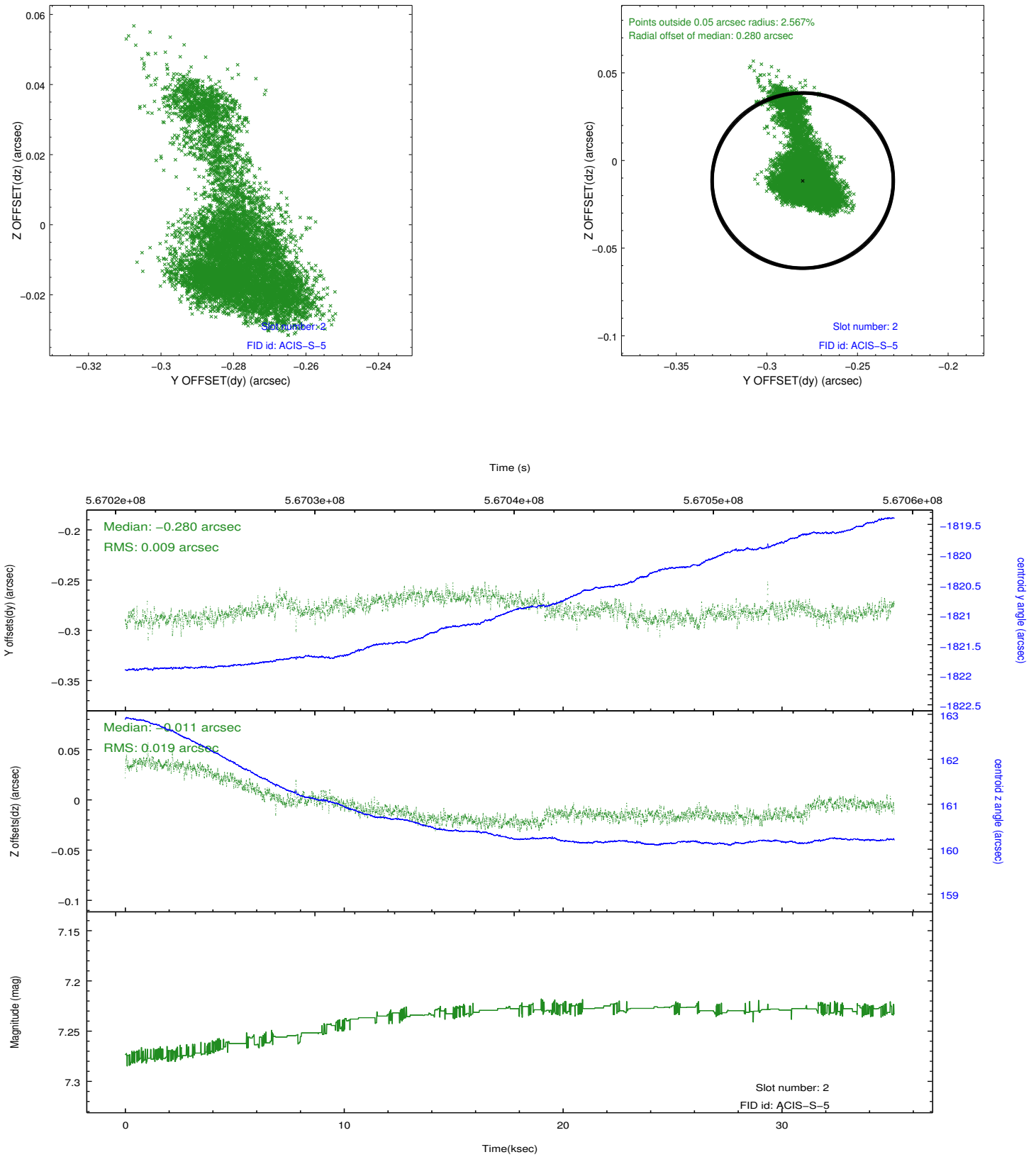
2.5.1 Slot 0



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)	2015.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.033100269556

A.2 Comments