

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19975 - L2 Version 1
Chandra X-Ray Center

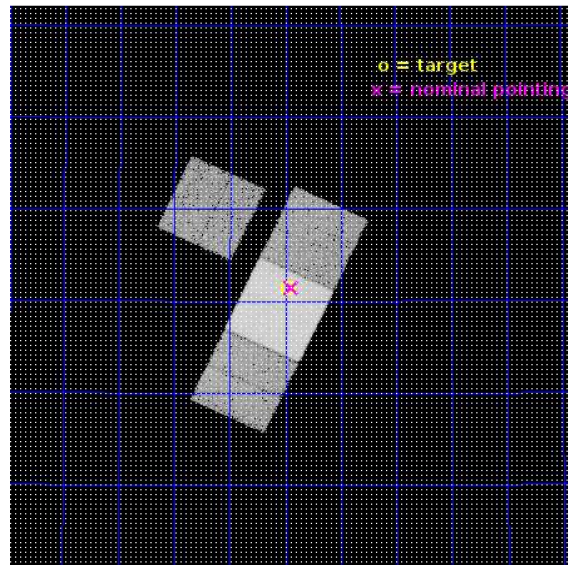
L2 Processing Date : Jan 2 2017

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1 Front

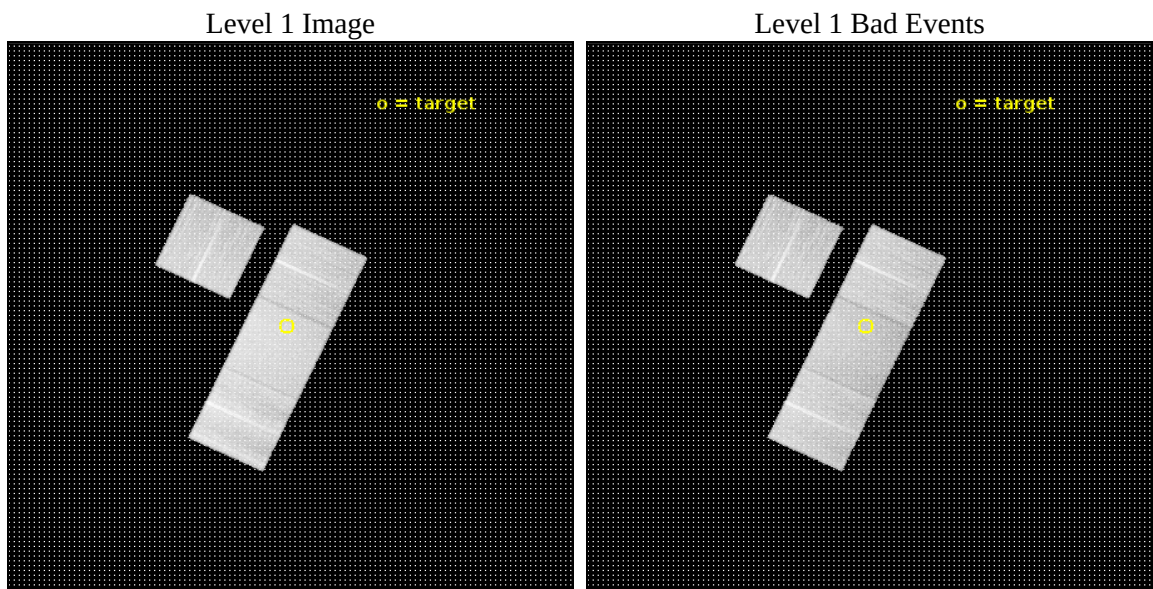
seq_num	703347	Sequence number
obs_id	19975	Observation id
title	A quadruple quasar coincident with a giant Ly-alpha nebula and a protocluster at z=2	Proposal title
observer	Cristian Vignali	Principal investigator
object	SDSSJ084158.47+392121.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.49375	Observer's specified target RA [deg]
dec_targ	39.355833	Observer's specified target Dec [deg]
ra_nom	130.48611295811	Nominal RA [deg]
dec_nom	39.357794382662	Nominal Dec [deg]
roll_nom	115.16147201229	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26116.091252446	Sum of GTIs [s]
livetime	25774.865293846	Livetime [s]
ontime2	26112.827052355	Sum of GTIs [s]
ontime6	26106.627051592	Sum of GTIs [s]
ontime7	26116.091252446	Sum of GTIs [s]
ontime8	26116.00917244	Sum of GTIs [s]
l2events	152998	Number of level 2 events



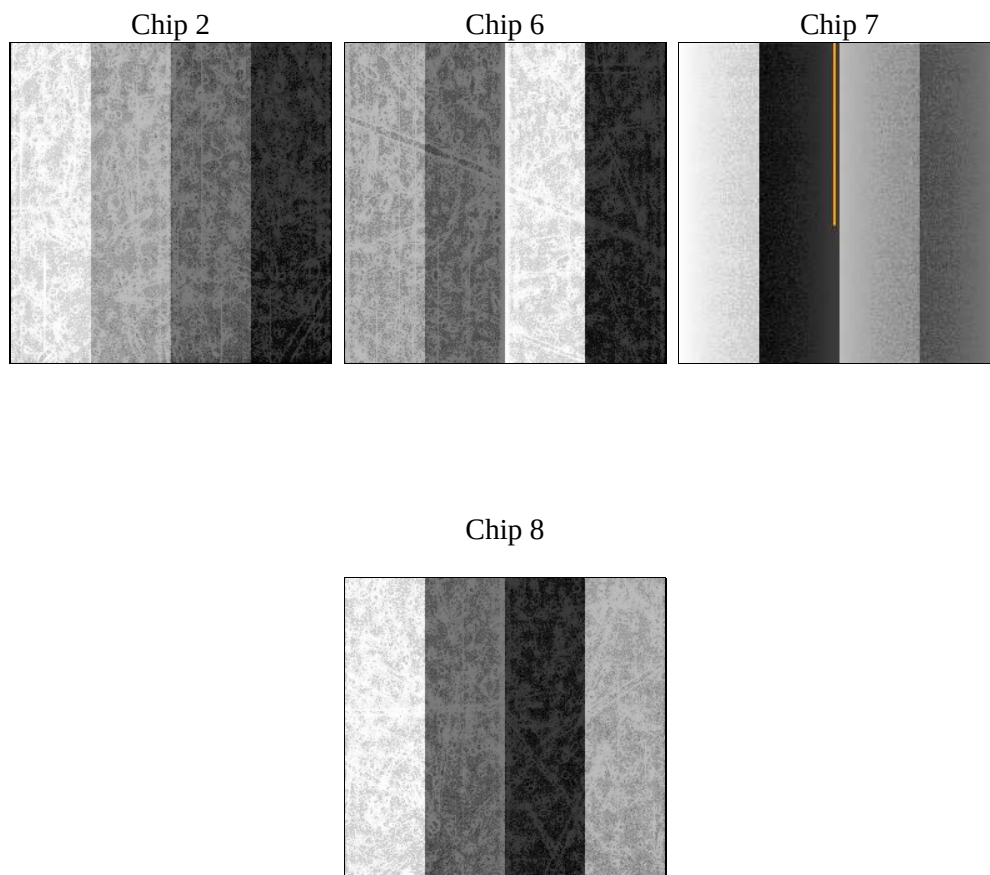
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	26116.091252446	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	26112.827052355	Sum of GTIs [s]
date	2017-01-02T12:35:34	Date and time of file creation	ontime6	26106.627051592	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	26116.091252446	Sum of GTIs [s]
			ontime8	26116.00917244	Sum of GTIs [s]
			l1events	836831	Number of level 1 events

2.1.4 Events

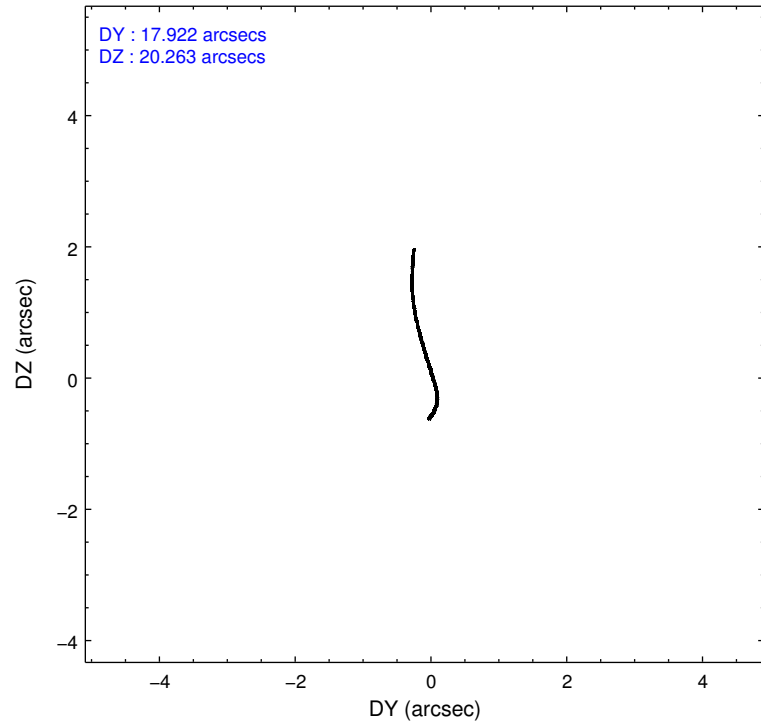
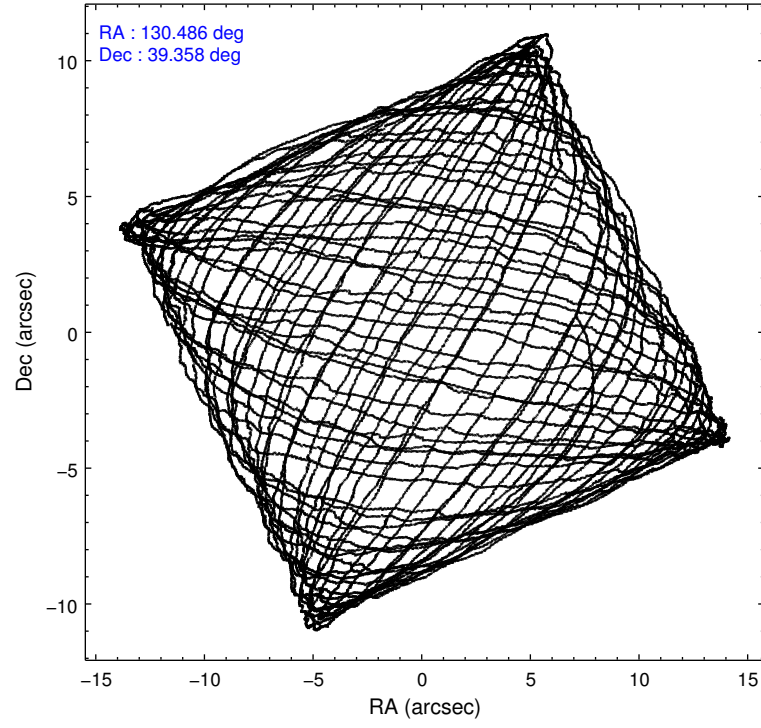
	ccd 2	ccd 6	ccd 7	ccd 8
level 1 events	180496	182727	232977	240631
rejected events	161410	162114	131407	175179
rejected %	89%	88%	56%	72%

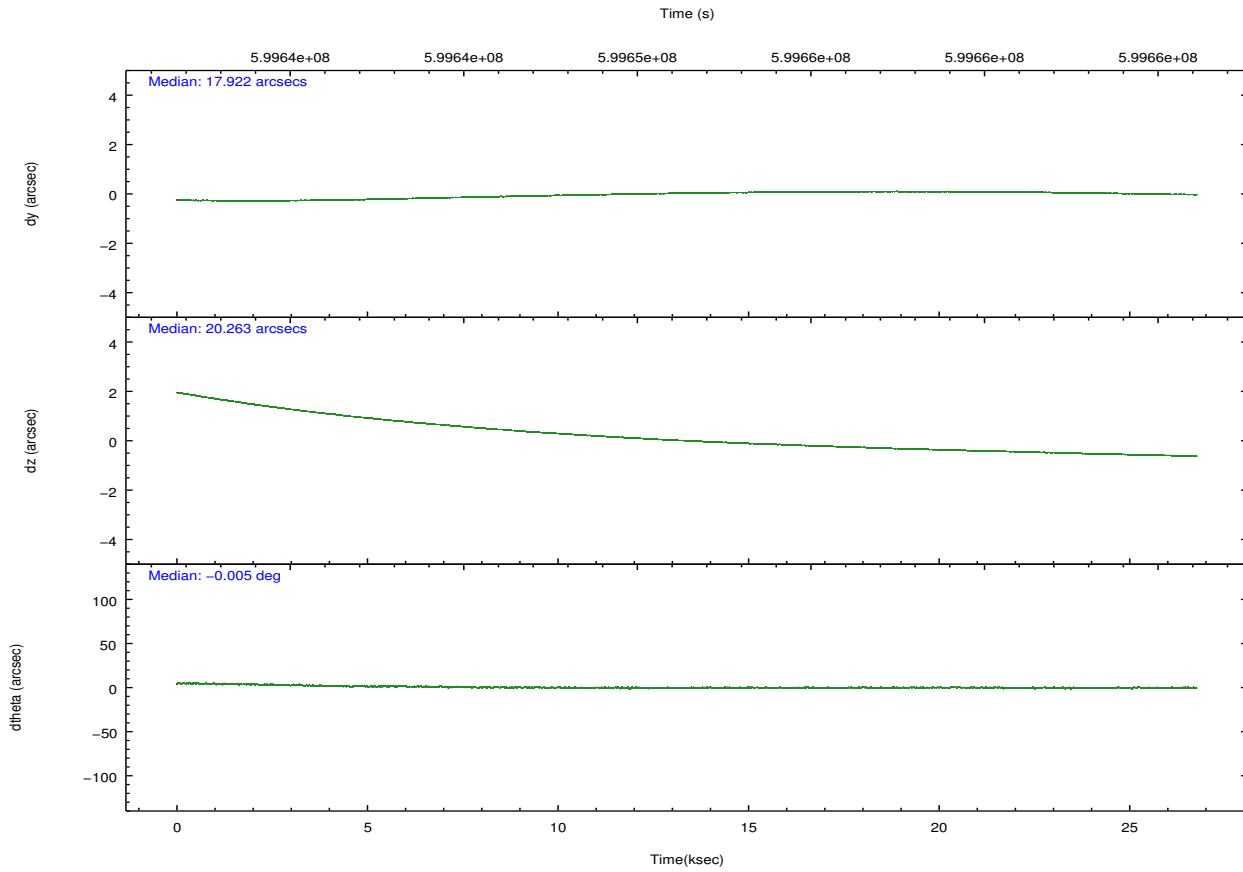
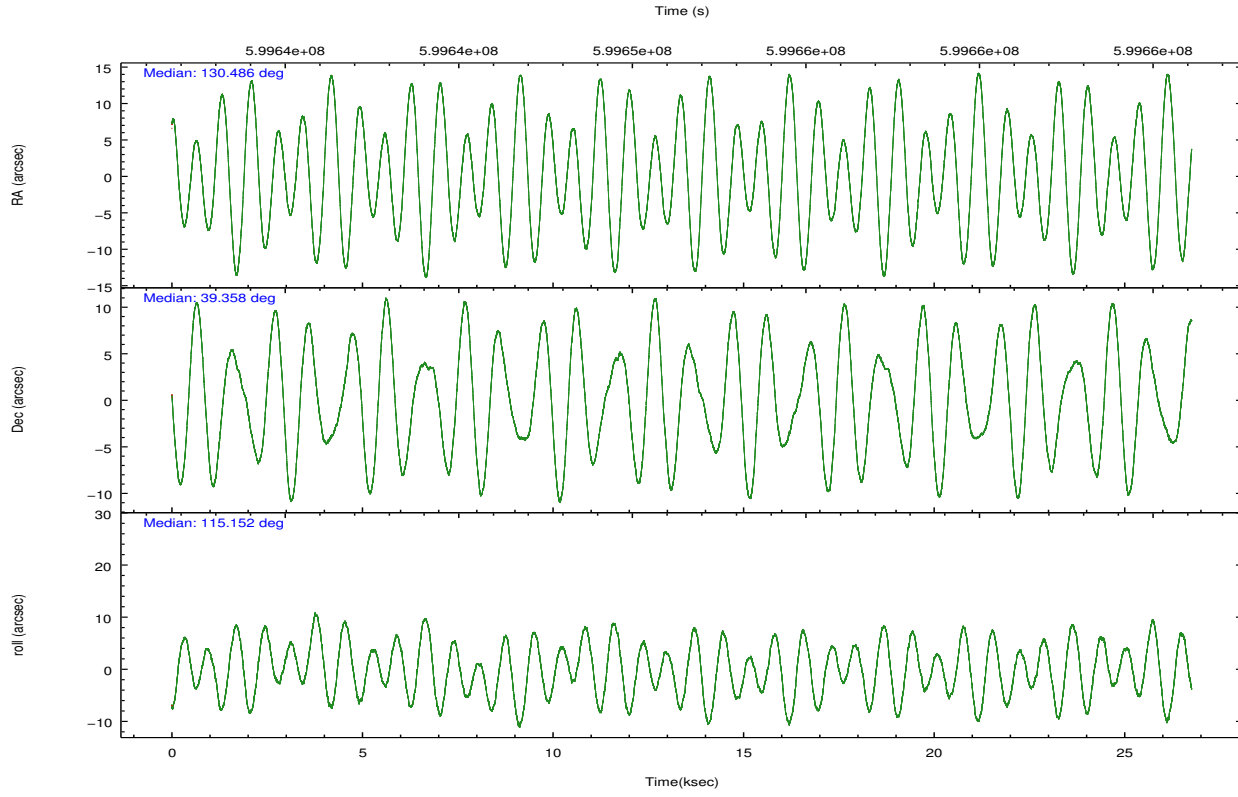
	ccd 2	ccd 6	ccd 7	ccd 8
grade 0 events	6563	6805	8510	18081
	3%	3%	3%	7%
grade 1 events	107	94	292	170
	0%	0%	0%	0%
grade 2 events	4754	4812	21311	16117
	2%	2%	9%	6%
grade 3 events	1963	2178	8129	6913
	1%	1%	3%	2%
grade 4 events	1972	2045	8186	6588
	1%	1%	3%	2%
grade 5 events	7143	8662	23243	13182
	3%	4%	9%	5%
grade 6 events	3839	4781	55459	17762
	2%	2%	23%	7%
grade 7 events	154155	153350	107847	161818
	85%	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2678	ACIS-2678	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	130.515522	130.4861129581111	CCD I2 on	O2	Y
[deg] Pointing Dec	39.342423	39.35779438266168	CCD I3 on	O1	N
[deg] Pointing Roll	114.986196	115.1614720122908	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	599638803.184000	599637614.48963	CCD S5 on	N	N
Observation start date	2017-01-01T06:18:54	2017-01-01T06:00:14	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	599664803.184000	599665677.45375	On-chip summing requested	N	N
Observation end date	2017-01-01T13:32:14	2017-01-01T13:47:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



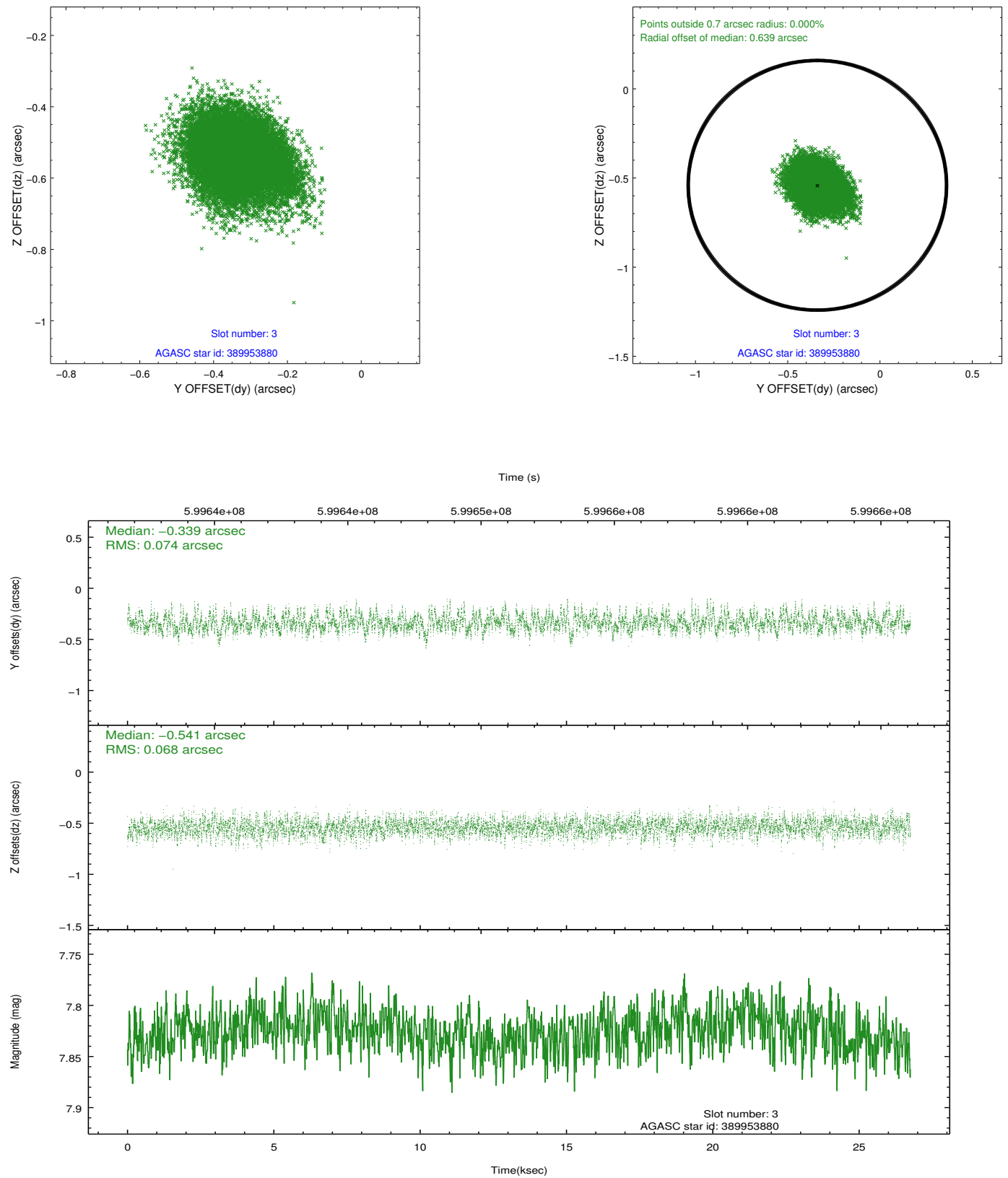


Slot Statistics

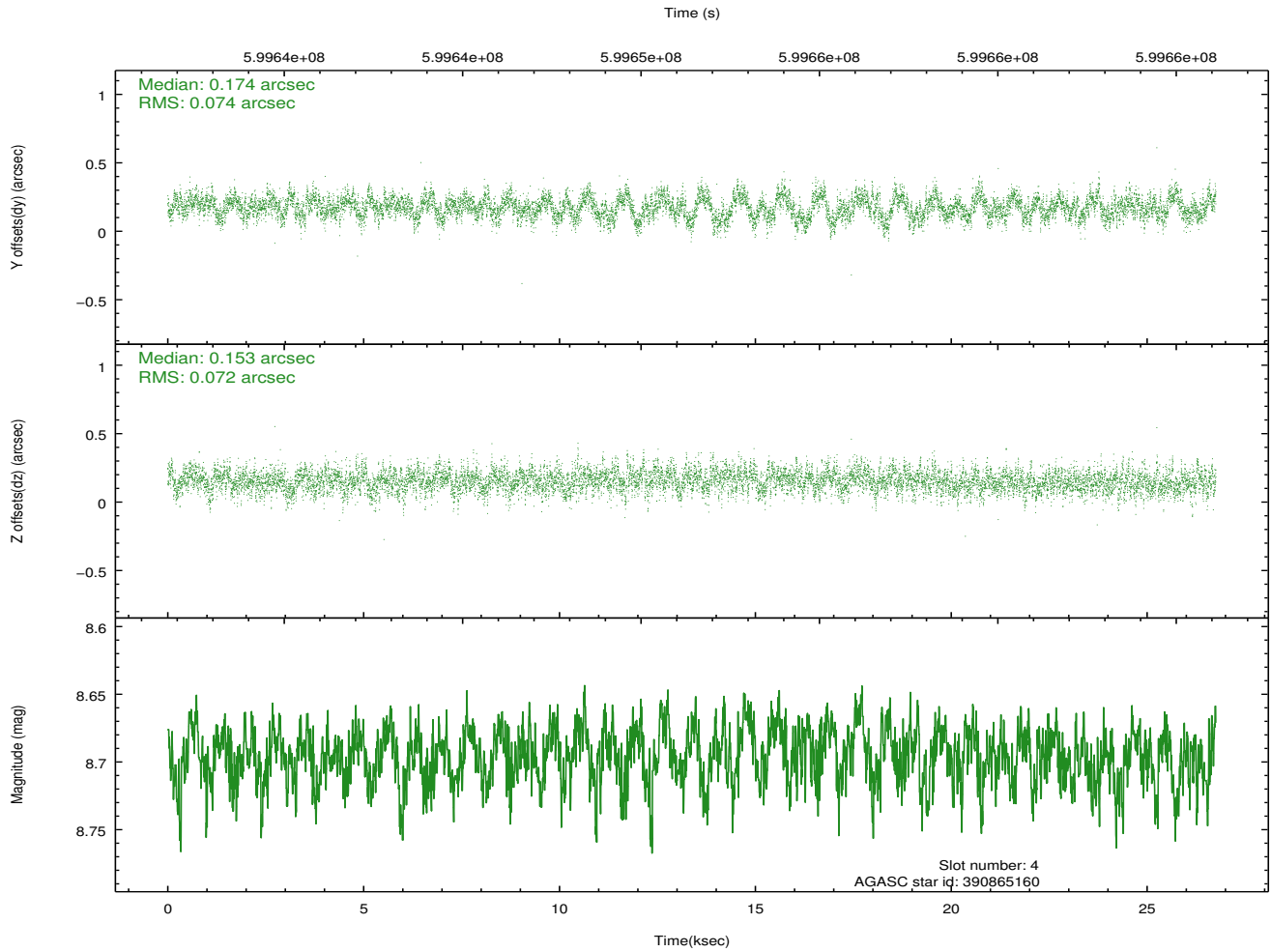
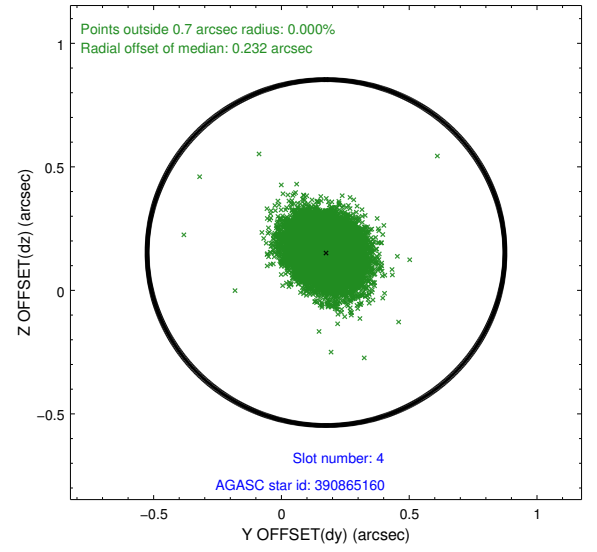
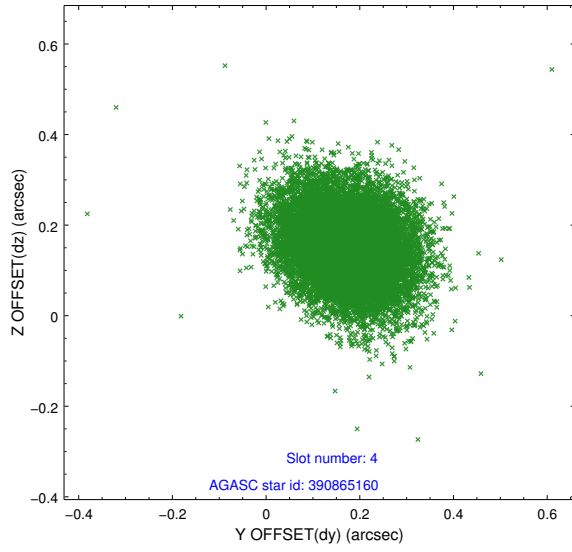
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	6527	-0.188	-0.090	0.012	0.028	0.000000	0.000000	-771.09	-1742.10
1	FID		ACIS-S-4	7.11	6527	0.462	0.114	0.019	0.047	0.000000	0.000000	2142.76	166.51
2	FID		ACIS-S-5	7.11	6527	-0.303	-0.016	0.018	0.029	0.000000	0.000000	-1823.94	160.12
3	GUIDE	used	389953880	7.83	13050	-0.339	-0.541	0.107	0.172	129.484084	39.644812	2208.92	2124.86
4	GUIDE	used	390865160	8.69	13043	0.174	0.153	0.110	0.177	130.458997	39.150226	-559.92	435.65
5	GUIDE	used	390866656	7.99	13046	0.002	0.308	0.091	0.157	131.112779	39.862716	1006.03	-2288.98
6	GUIDE	used	390867952	8.92	13042	-0.007	0.231	0.109	0.179	130.507524	39.576875	774.79	-336.08
7	GUIDE	used	390870832	6.63	13051	0.169	-0.149	0.090	0.153	130.673915	39.061455	-1103.01	25.57

2.4 Star Slots

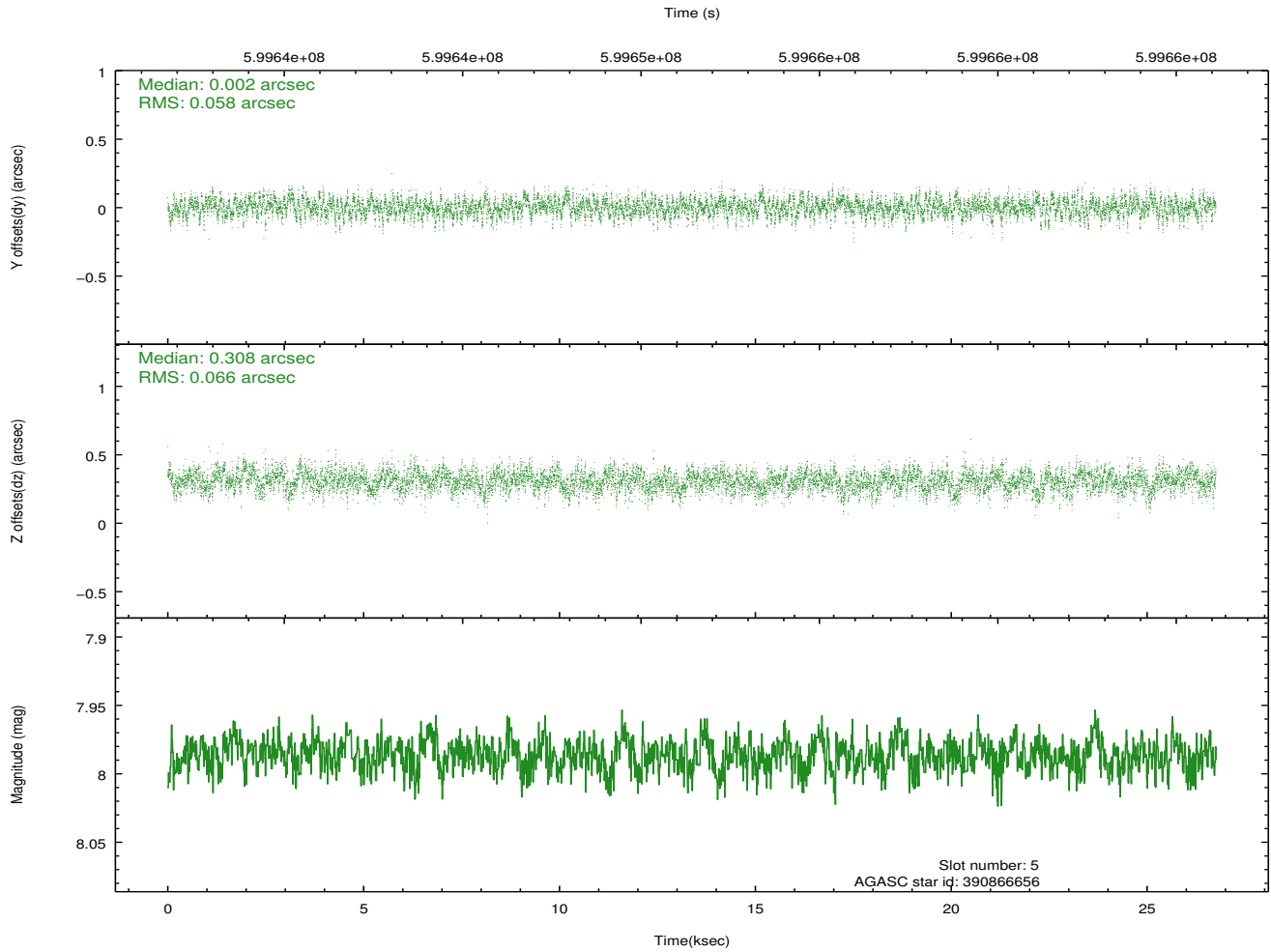
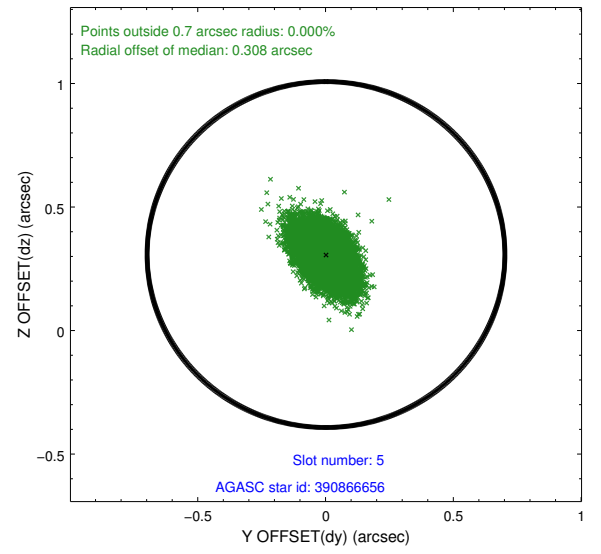
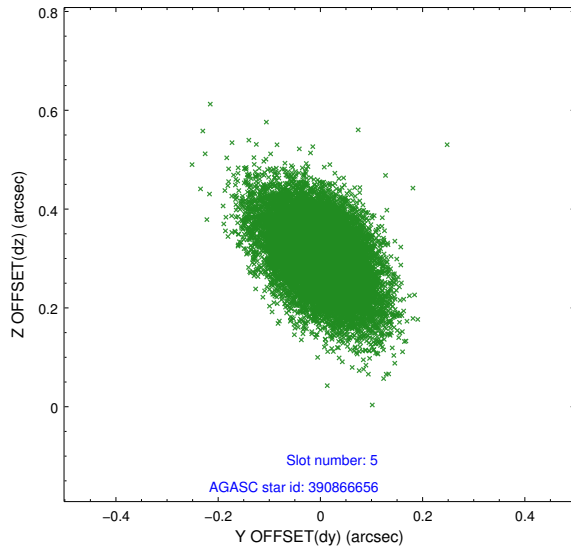
2.4.1 Slot 3



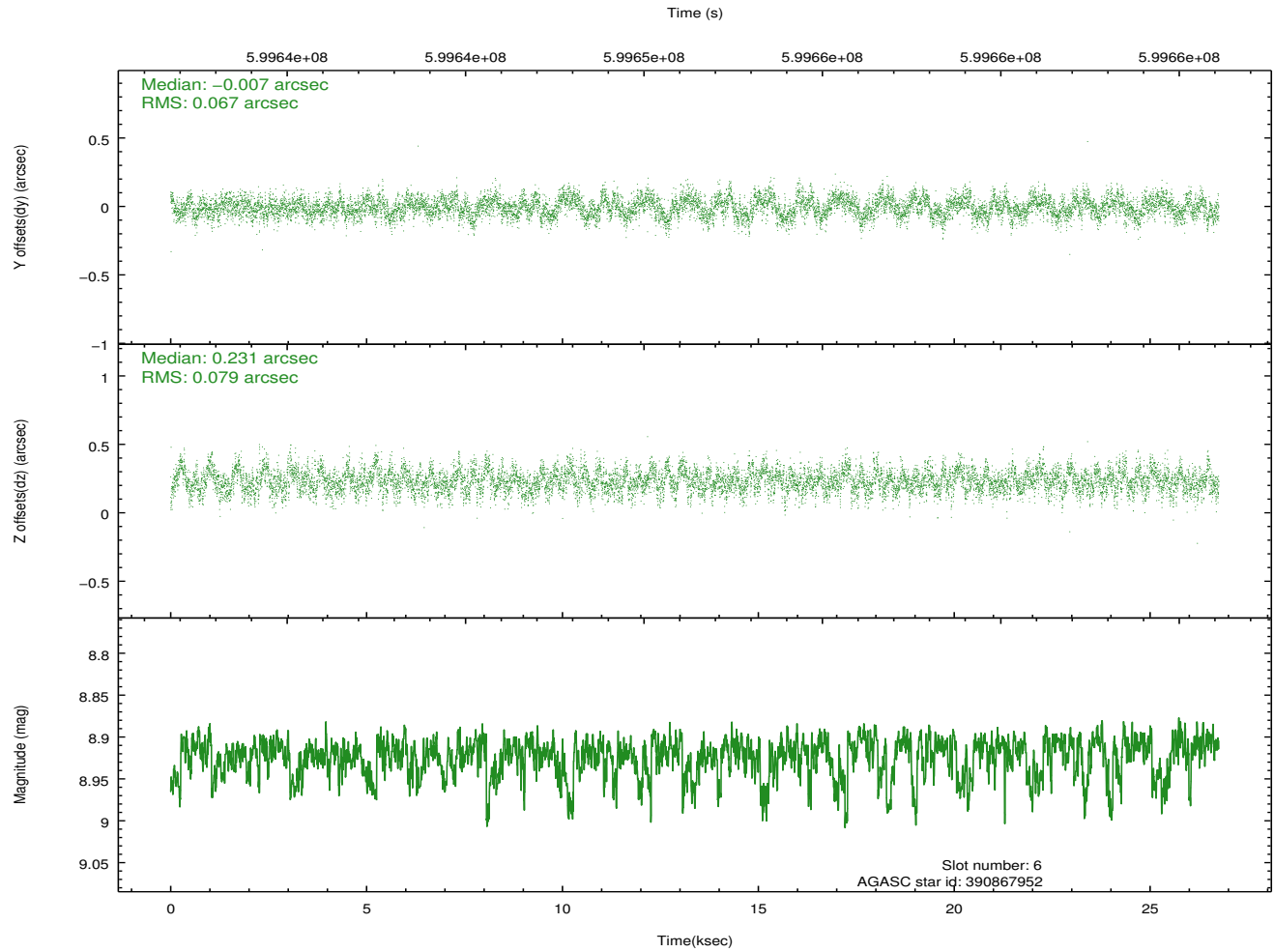
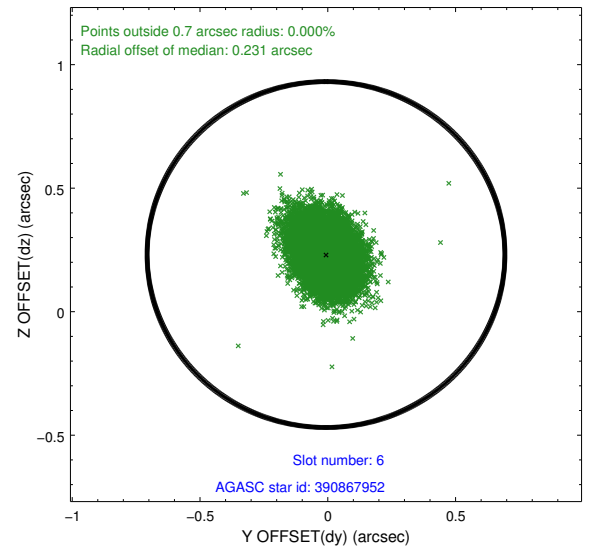
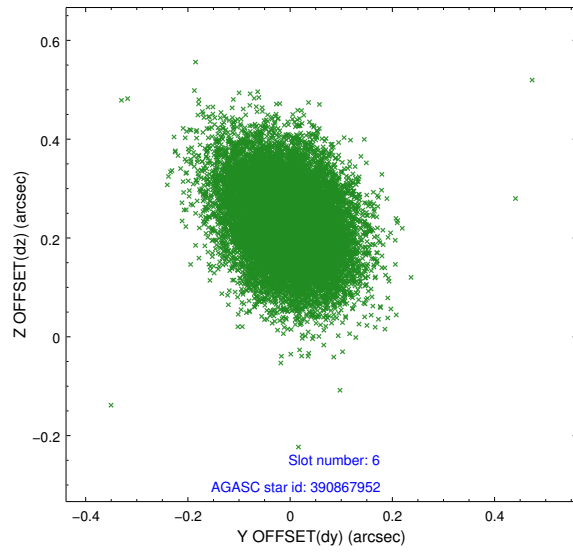
2.4.2 Slot 4



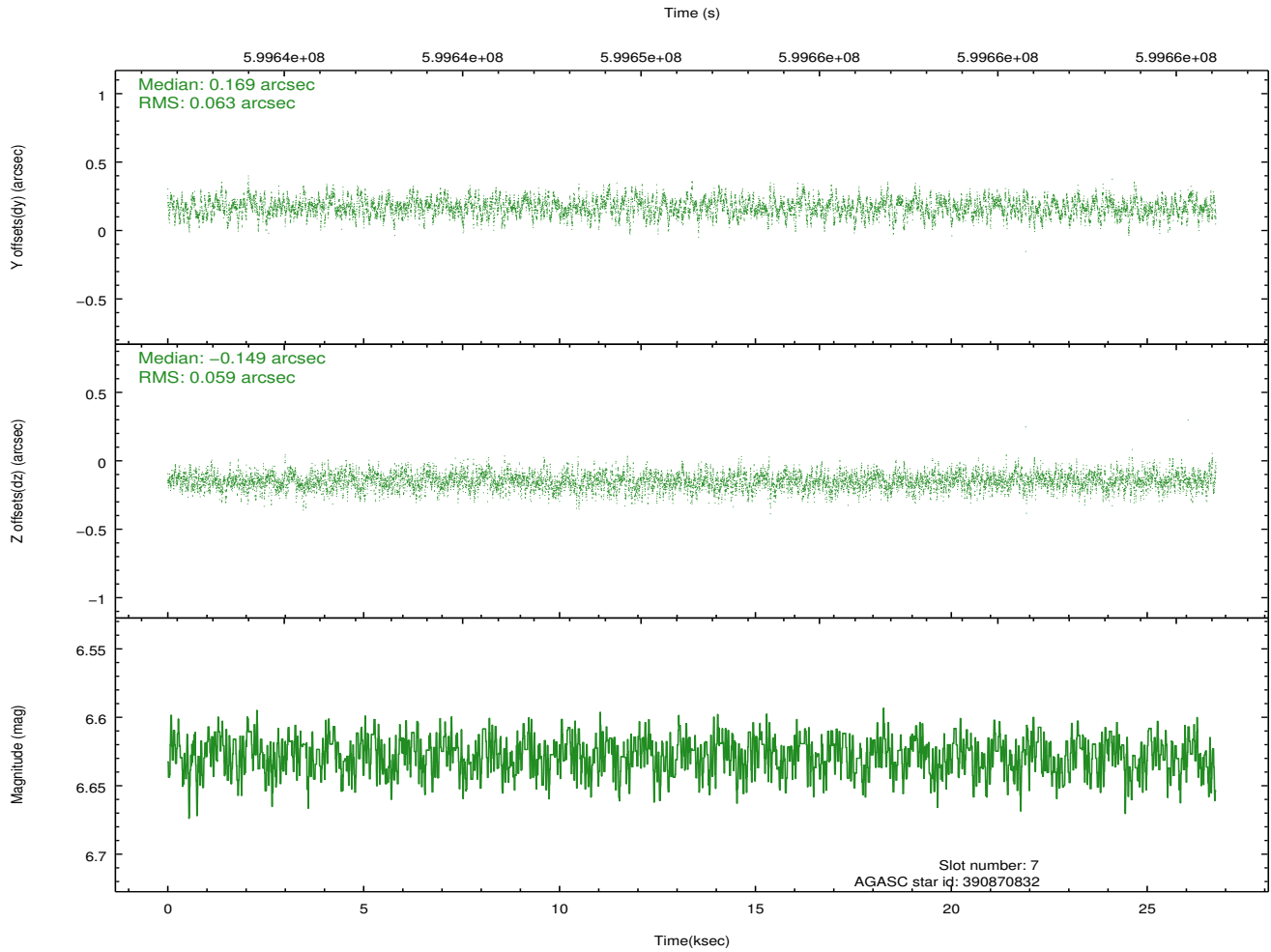
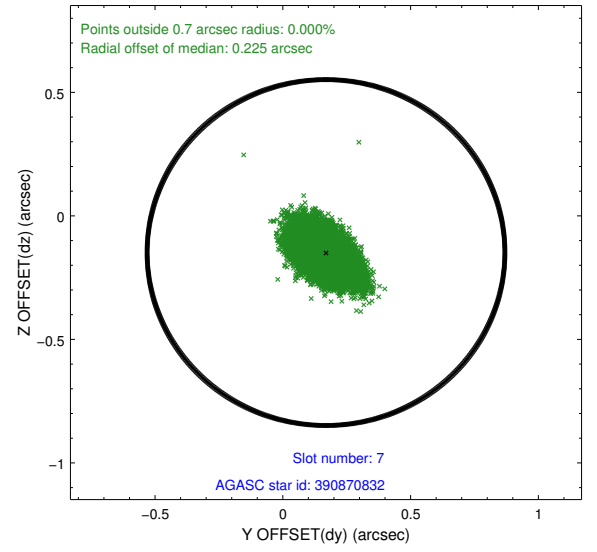
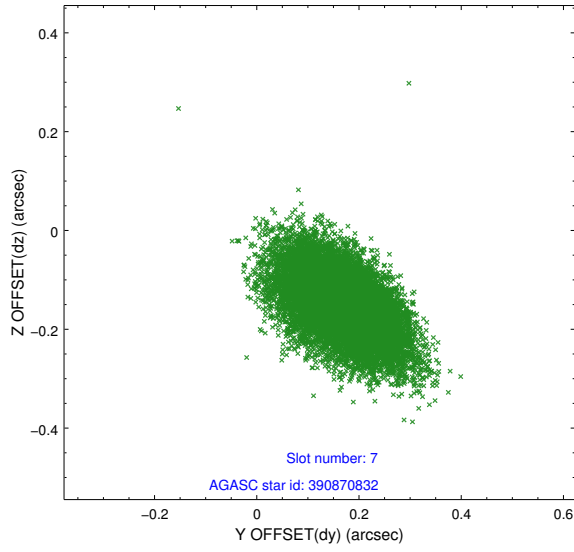
2.4.3 Slot 5



2.4.4 Slot 6

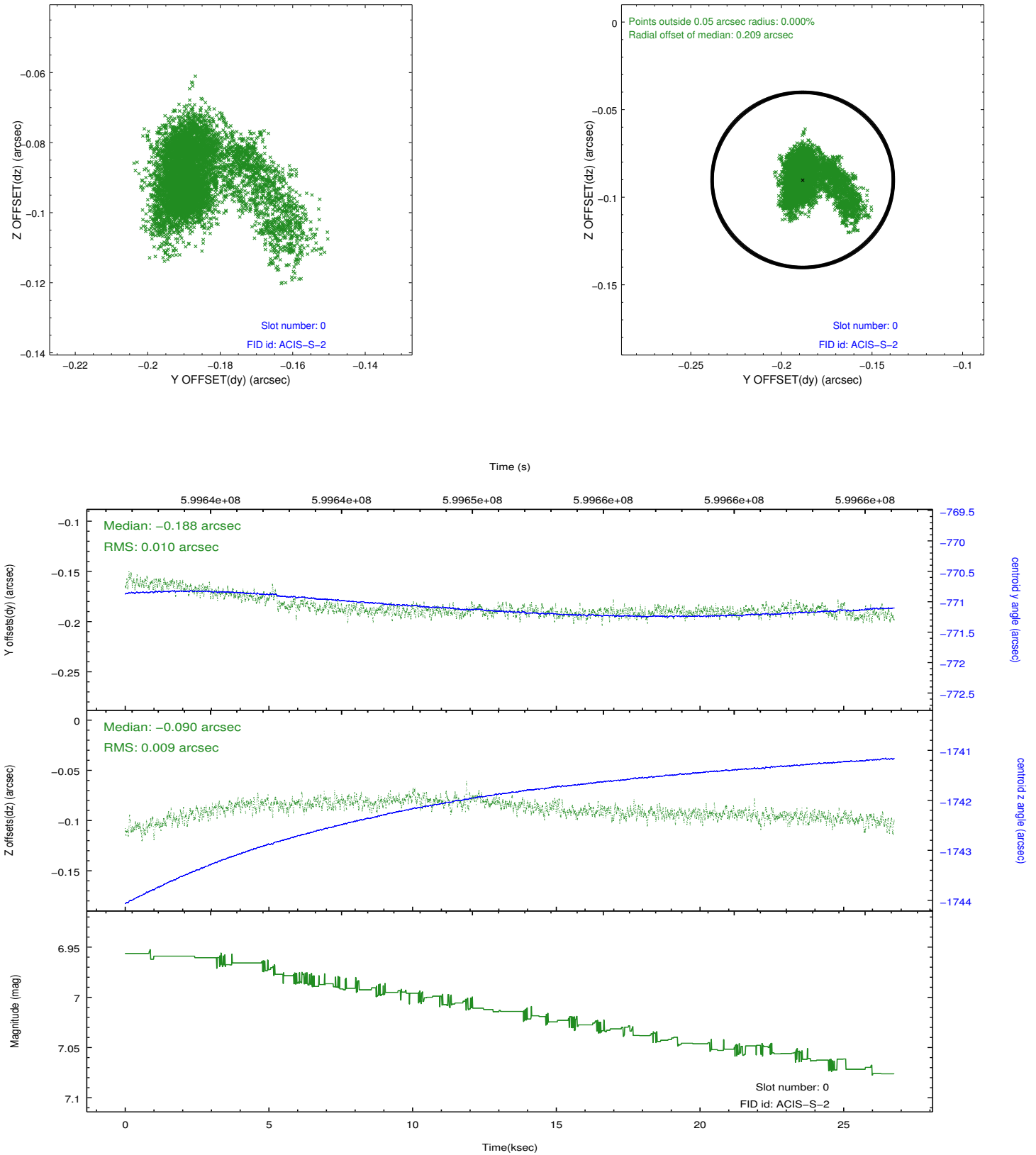


2.4.5 Slot 7

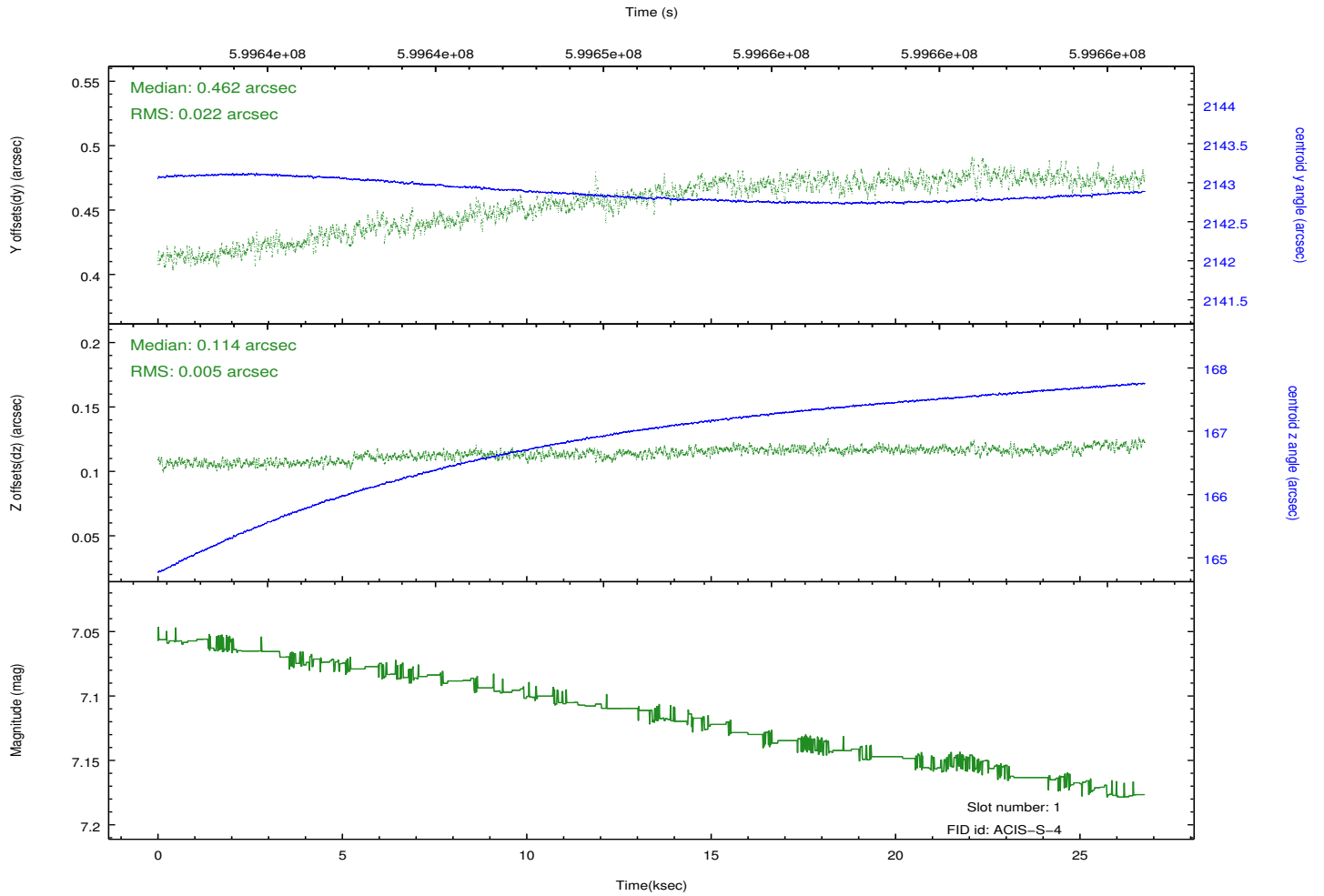
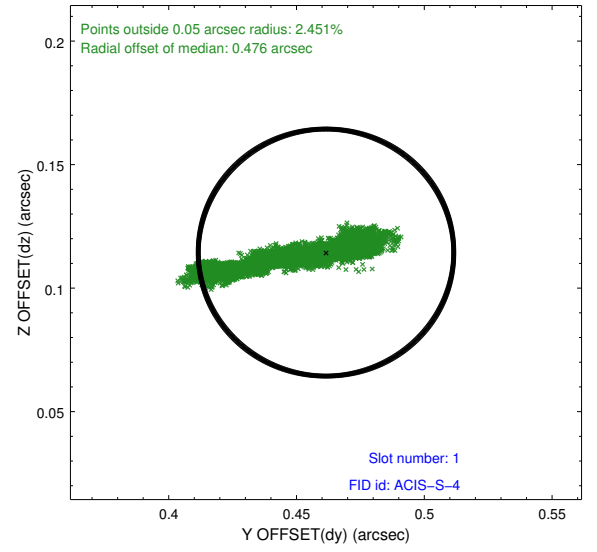
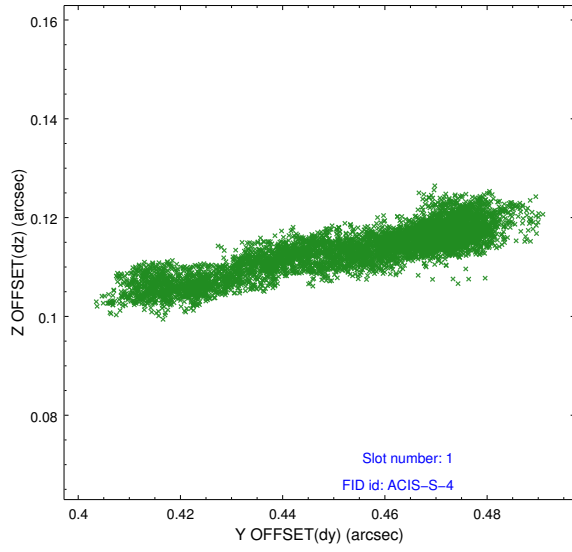


2.5 FID Slots

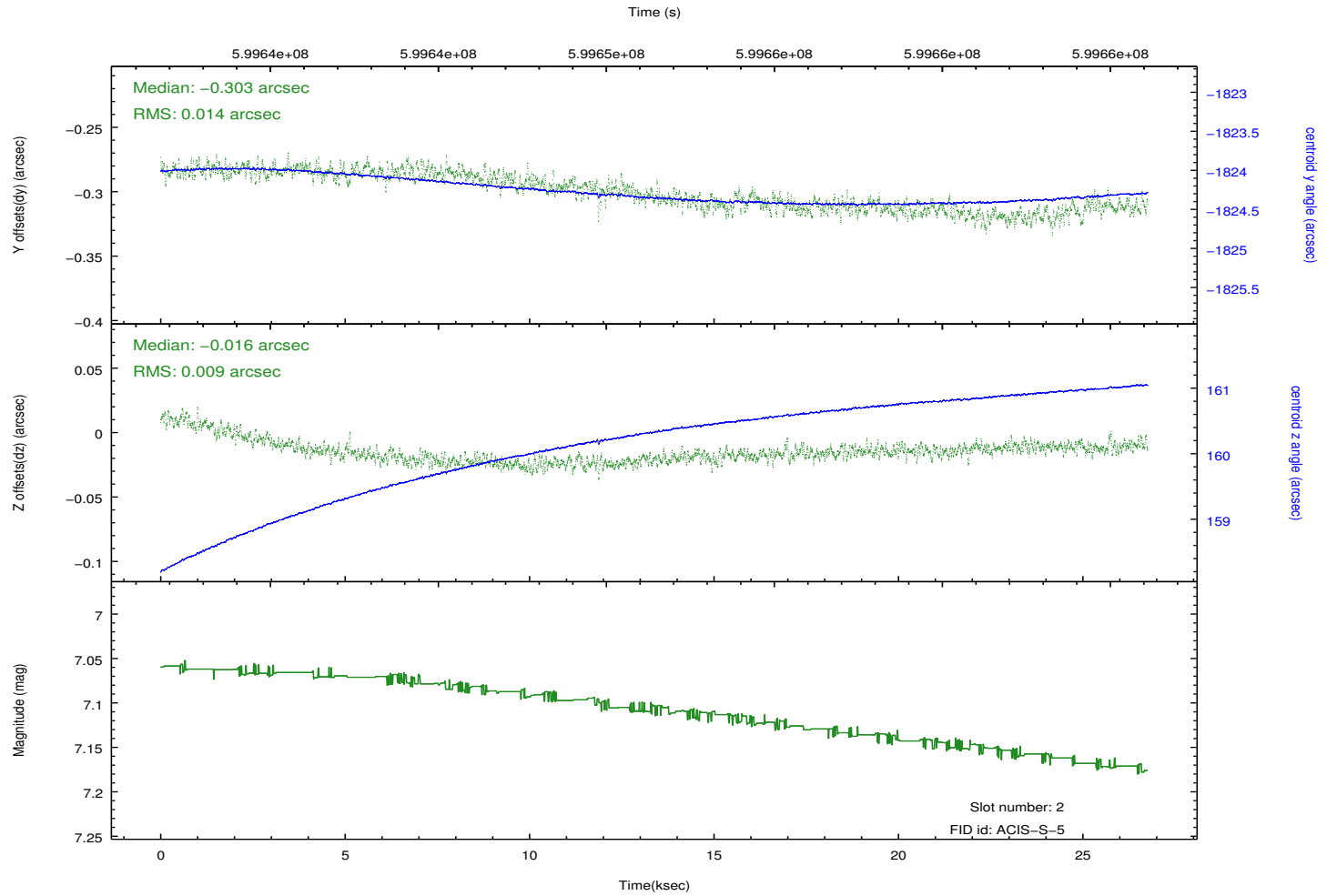
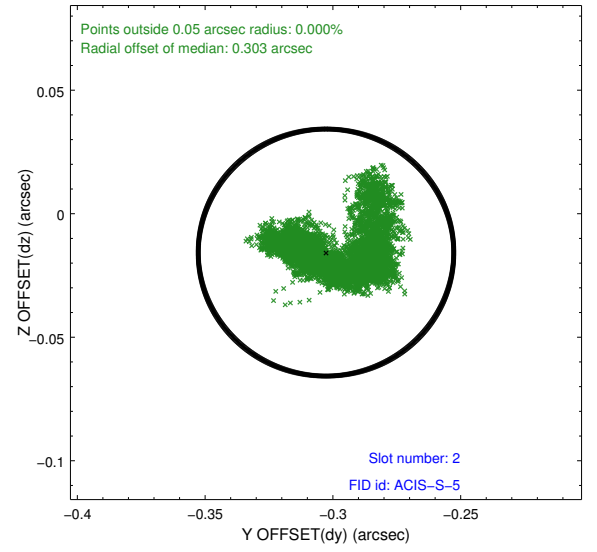
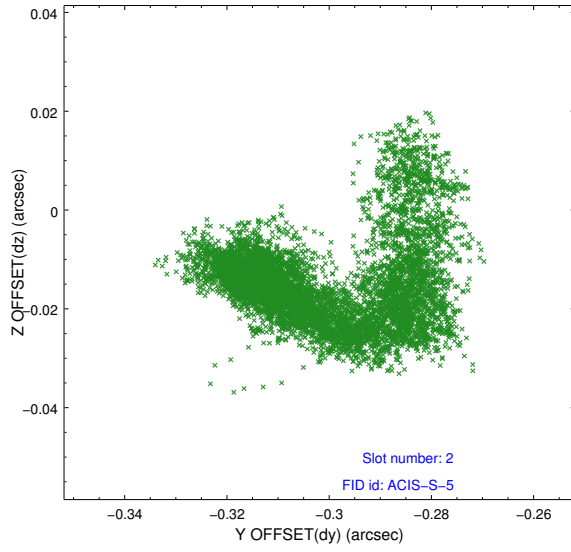
2.5.1 Slot 0



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)	2017.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.116091252446

A.2 Comments

One optional chip was dropped.