

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18017 - L2 Version 1
Chandra X-Ray Center

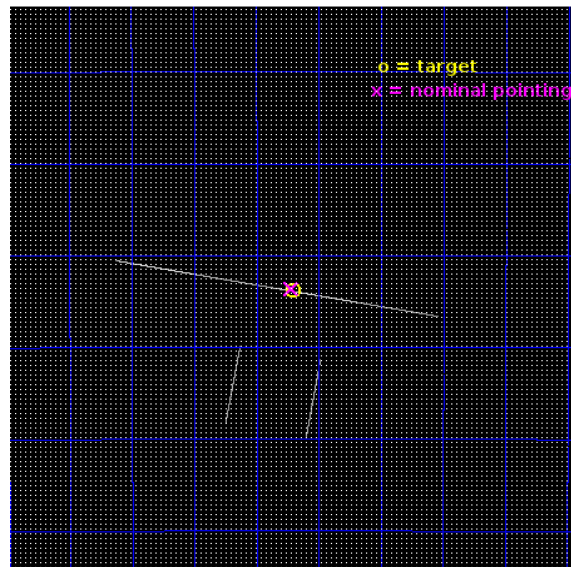
L2 Processing Date : Dec 31 2016

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1 Front

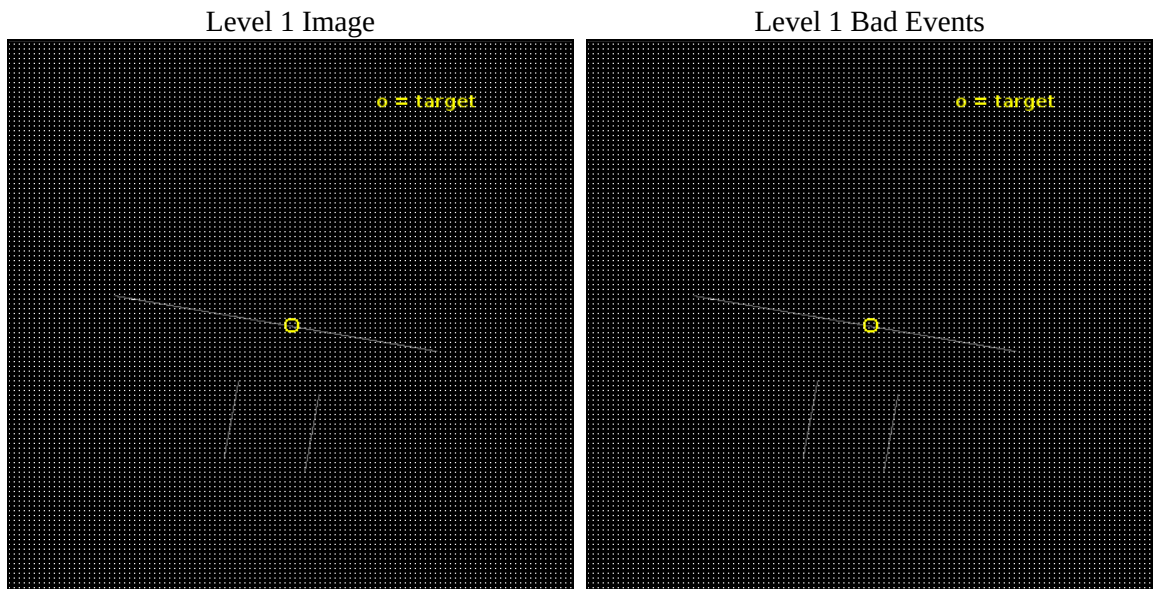
seq_num	502636	Sequence number
obs_id	18017	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	
observer	Victoria Kaspi	Principal investigator
object	SGR 0755-2933	Source name
ra_targ	118.926965	Observer's specified target RA [deg]
dec_targ	-29.564901	Observer's specified target Dec [deg]
ra_nom	118.92979436041	Nominal RA [deg]
dec_nom	-29.560707403602	Nominal Dec [deg]
roll_nom	10.158020133875	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40075.75	Sum of GTIs [s]
livetime	39919.204101562	Livetime [s]
ontime2	34577.412352443	Sum of GTIs [s]
ontime3	35131.129728556	Sum of GTIs [s]
ontime5	39836.425761342	Sum of GTIs [s]
ontime6	34964.187162399	Sum of GTIs [s]
ontime7	40075.75	Sum of GTIs [s]
ontime8	35040.704836965	Sum of GTIs [s]
l2events	518800	Number of level 2 events



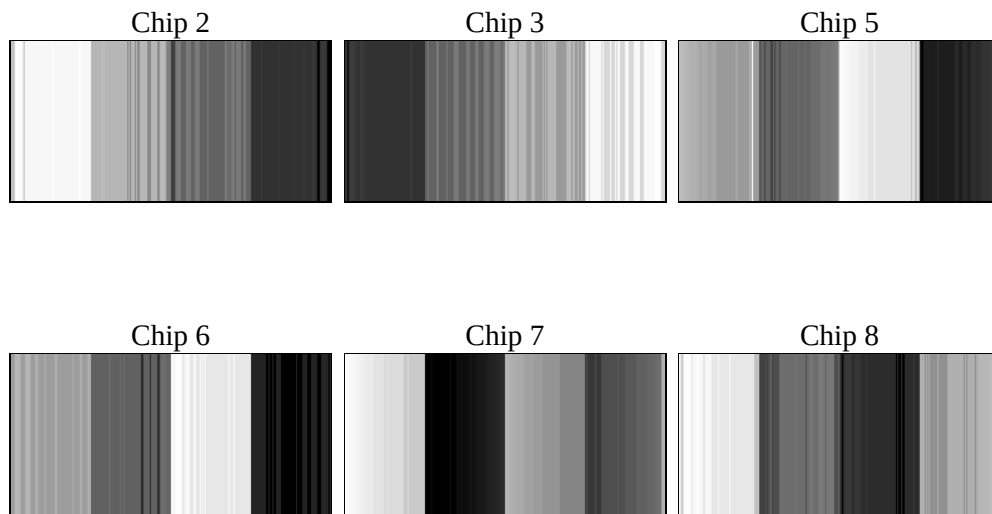
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40075.75	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	34577.412352443	Sum of GTIs [s]
date	2016-12-31T07:15:01	Date and time of file creation	ontime3	35131.129728556	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	39836.425761342	Sum of GTIs [s]
			ontime6	34964.187162399	Sum of GTIs [s]
			ontime7	40075.75	Sum of GTIs [s]
			ontime8	35040.704836965	Sum of GTIs [s]
			l1events	6306010	Number of level 1 events

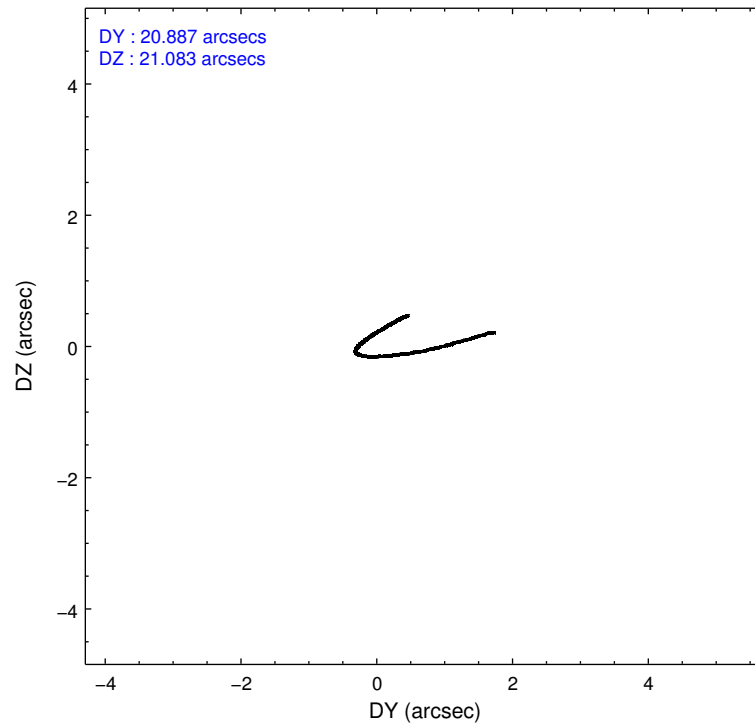
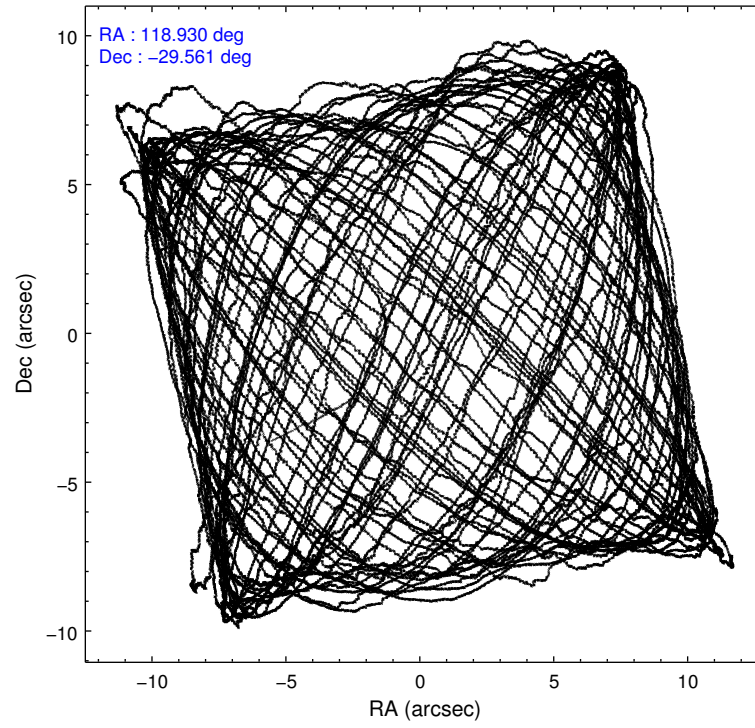
2.1.4 Events

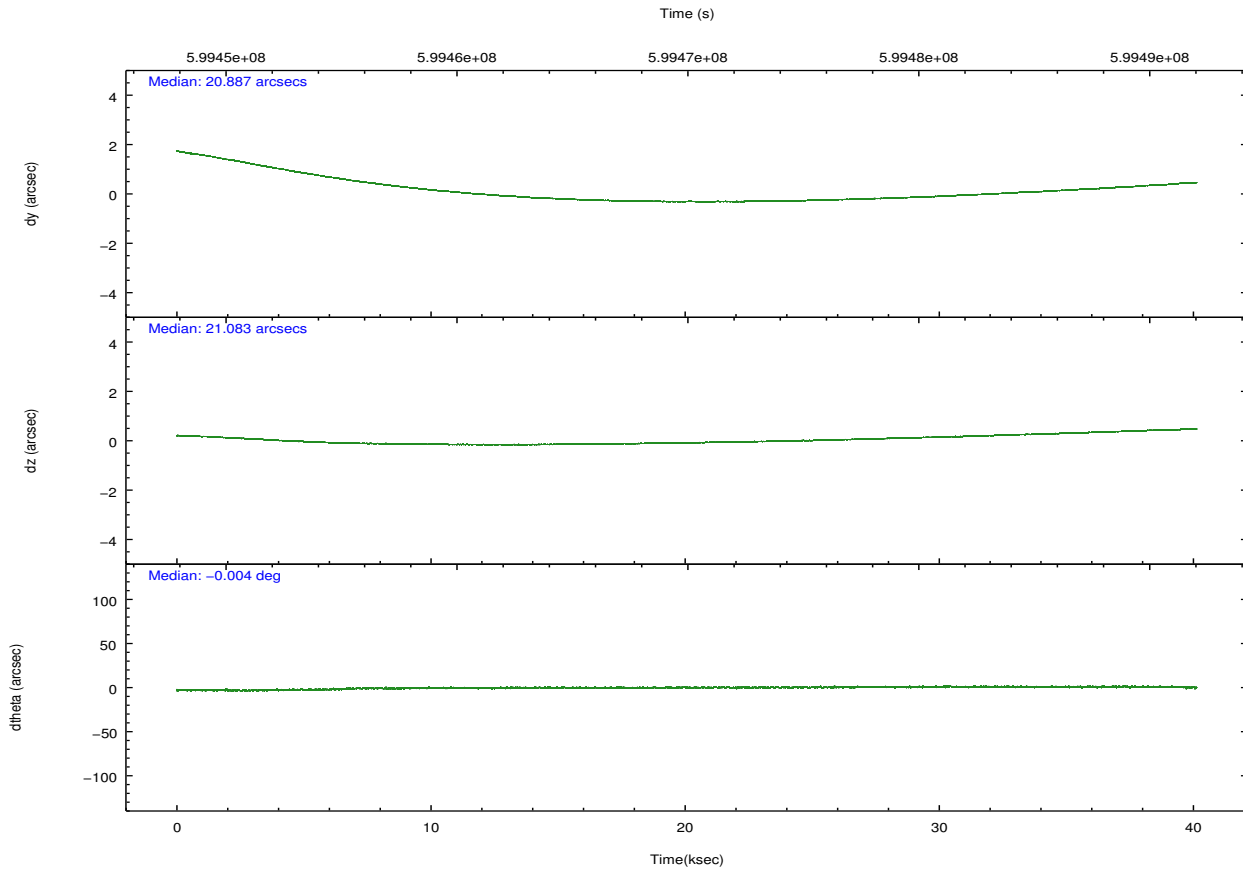
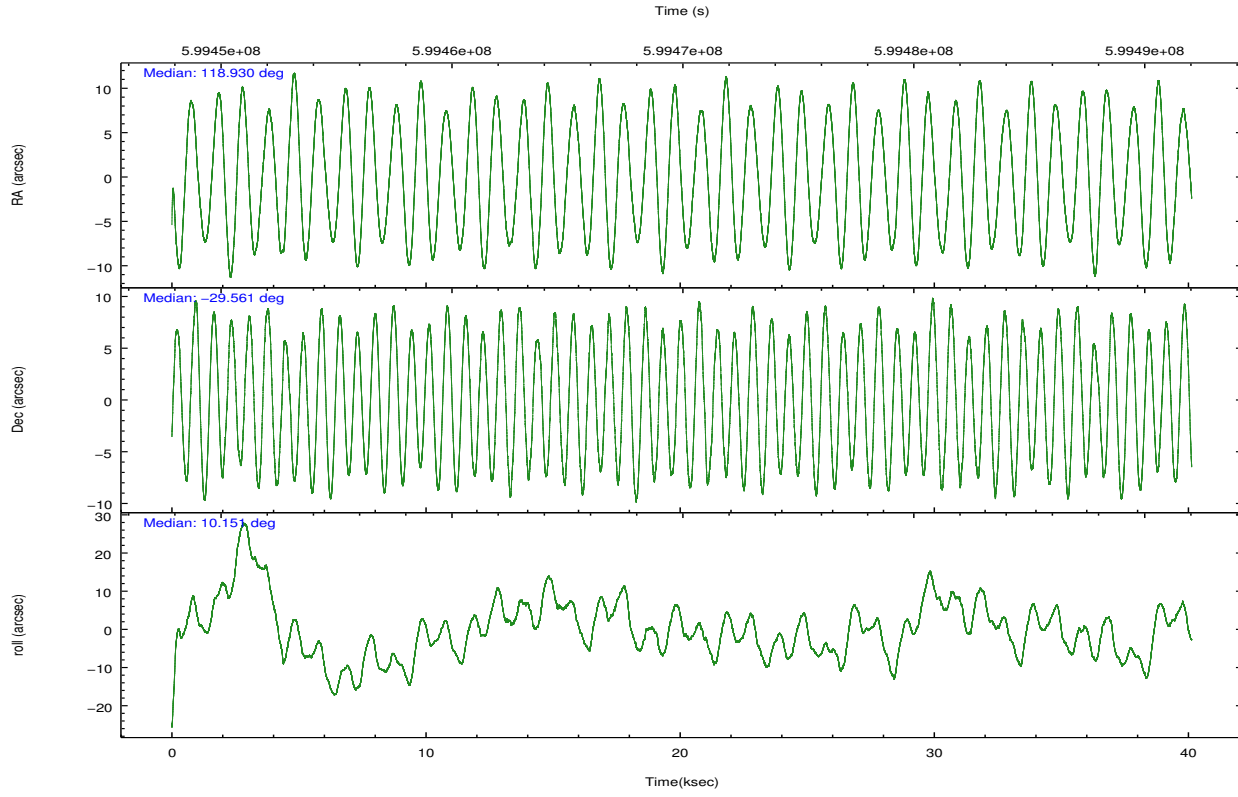
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	428711	429774	3808223	416190	544441	678671	grade 0 events	4484	4546	473247	4659	11654	23381
rejected events	392880	391171	1781949	373965	371654	570293		1%	1%	12%	1%	2%	3%
rejected %	91%	91%	46%	89%	68%	84%	grade 1 events	236	222	1032	187	500	484
								0%	0%	0%	0%	0%	0%
							grade 2 events	13492	13719	1406770	15610	46858	33209
								3%	3%	36%	3%	8%	4%
							grade 3 events	4421	5411	5562	5501	8176	11081
								1%	1%	0%	1%	1%	1%
							grade 4 events	4531	4841	5442	4917	7975	10559
								1%	1%	0%	1%	1%	1%
							grade 5 events	10497	11986	31238	12532	33410	18458
								2%	2%	0%	3%	6%	2%
							grade 6 events	9005	10164	135367	11543	98144	30153
								2%	2%	3%	2%	18%	4%
							grade 7 events	382045	378885	1749565	361241	337724	551346
								89%	88%	45%	86%	62%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	118.905954	118.9297943604092	CCD I2 on	O2	Y
[deg] Pointing Dec	-29.578697	-29.56070740360151	CCD I3 on	O3	Y
[deg] Pointing Roll	9.989635	10.15802013387458	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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)	599449996.184000	599448603.45371	CCD S5 on	N	N
Observation start date	2016-12-30T01:52:08	2016-12-30T01:30:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	599489996.184000	599490758.11865	On-chip summing requested	N	N
Observation end date	2016-12-30T12:58:48	2016-12-30T13:12:38	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



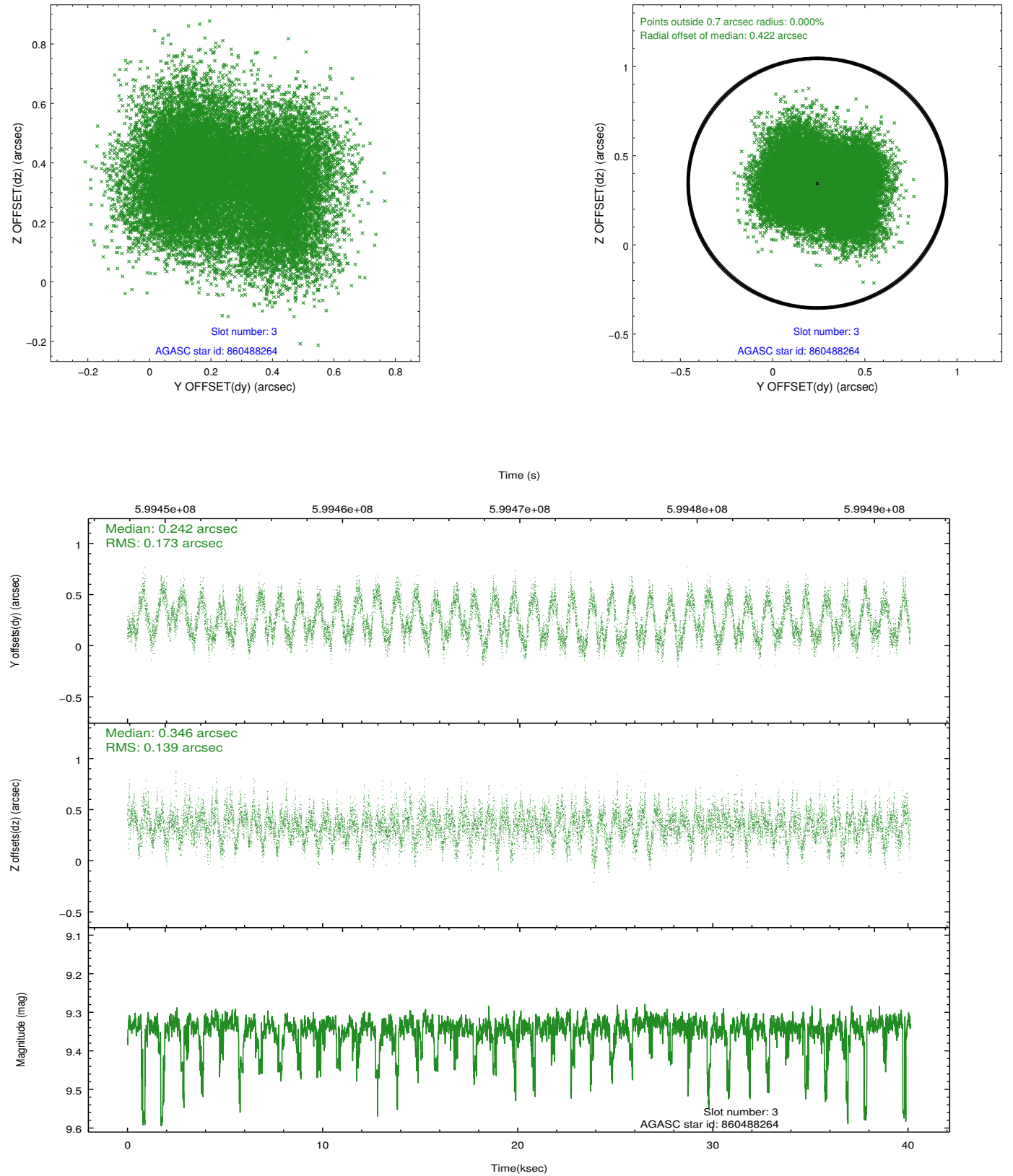


Slot Statistics

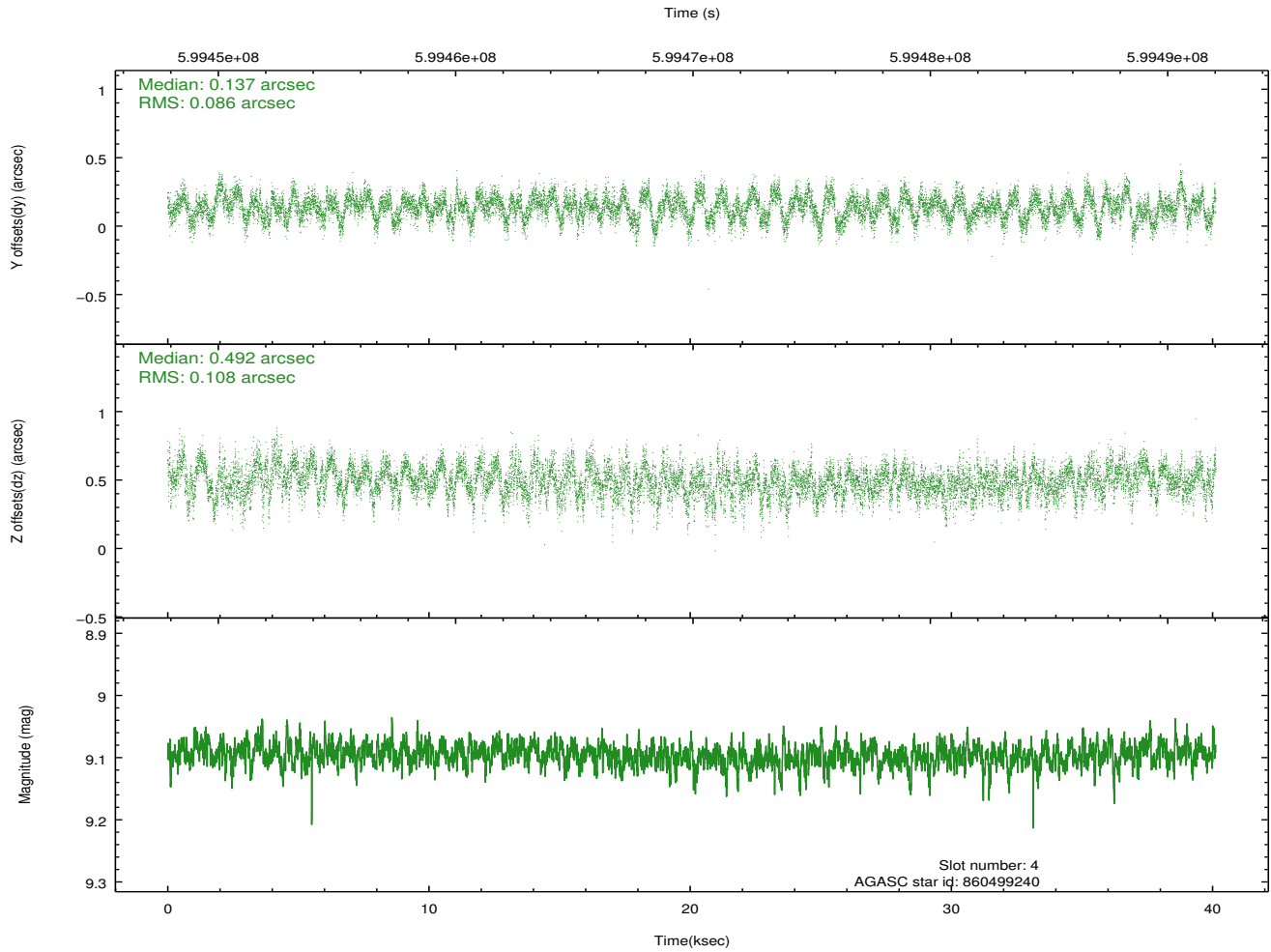
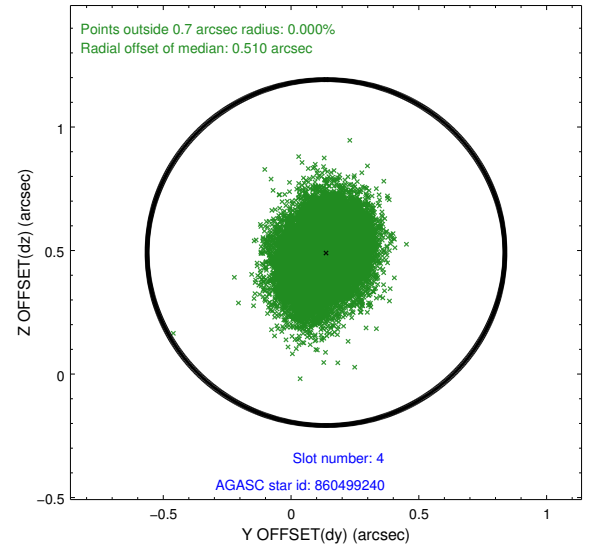
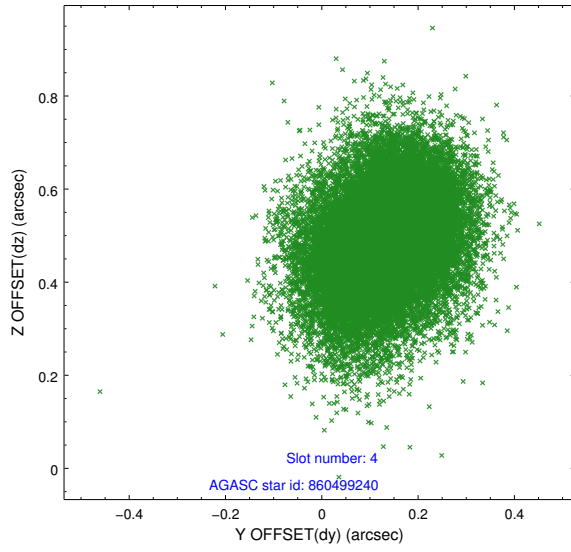
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	9788	-0.250	-0.144	0.015	0.029	0.000000	0.000000	-774.42	-1742.83
1	FID		ACIS-S-4	7.23	9788	0.526	0.159	0.010	0.019	0.000000	0.000000	2139.61	165.96
2	FID		ACIS-S-5	7.22	9788	-0.306	-0.007	0.015	0.032	0.000000	0.000000	-1827.32	159.46
3	GUIDE	used	860488264	9.34	19558	0.242	0.346	0.243	0.365	118.898007	-29.863694	-201.55	-1005.82
4	GUIDE	used	860499240	9.10	19562	0.137	0.492	0.147	0.235	118.745825	-29.763474	-607.61	-568.29
5	GUIDE	used	860639000	9.15	19558	-0.250	0.028	0.145	0.244	119.656952	-29.664574	2258.97	-719.25
6	GUIDE	used	860497680	8.88	19560	0.109	-0.496	0.136	0.233	118.416268	-29.122994	-1232.19	1878.96
7	GUIDE	used	860510912	8.96	19555	-0.232	-0.365	0.131	0.217	119.267458	-29.244029	1327.10	987.71

2.4 Star Slots

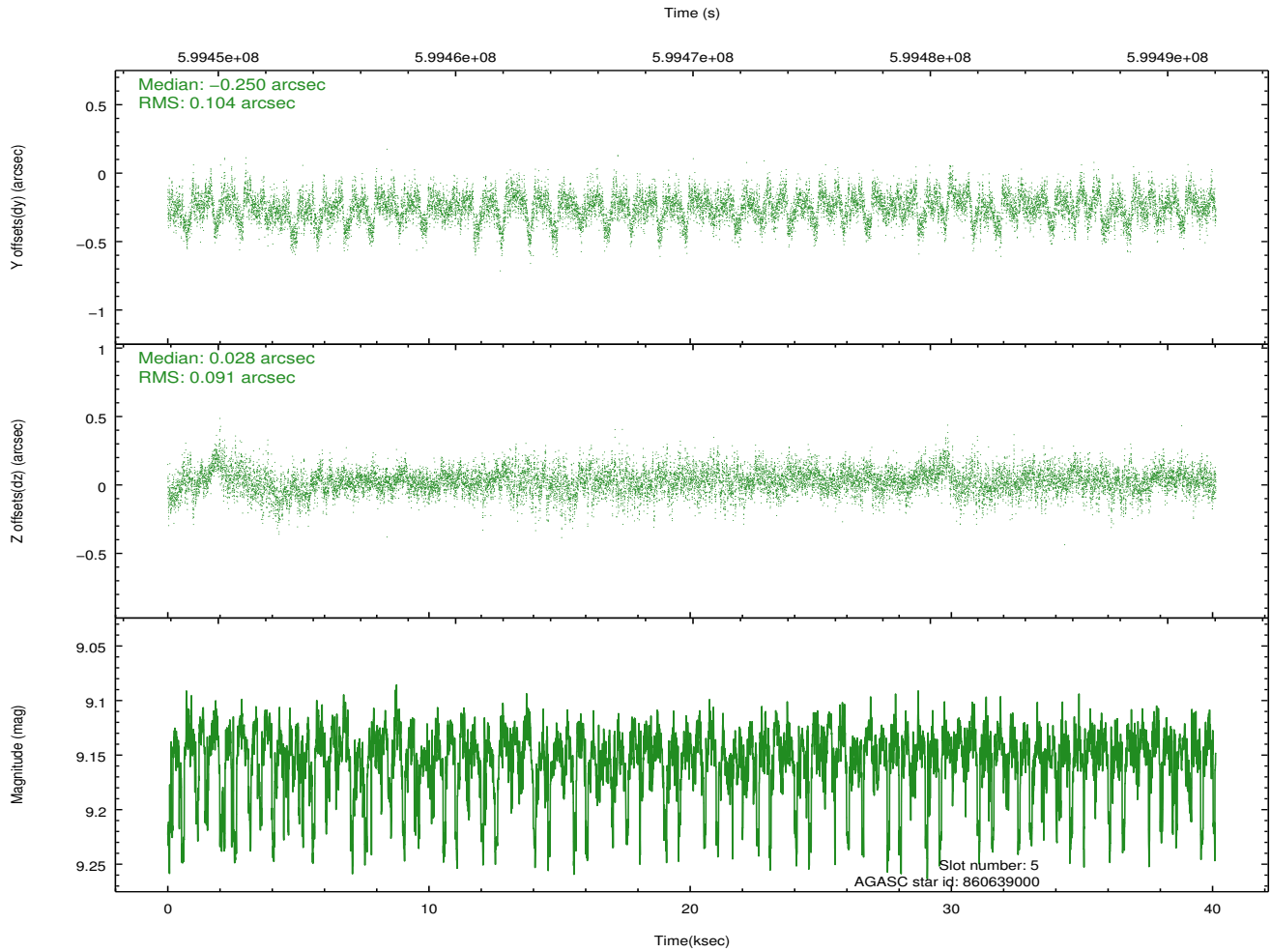
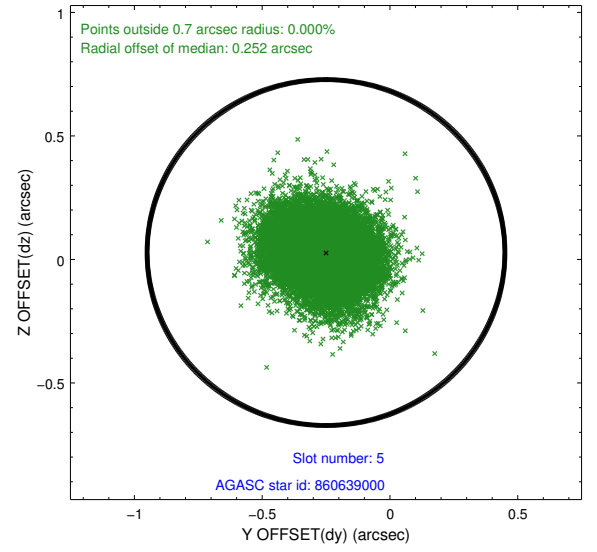
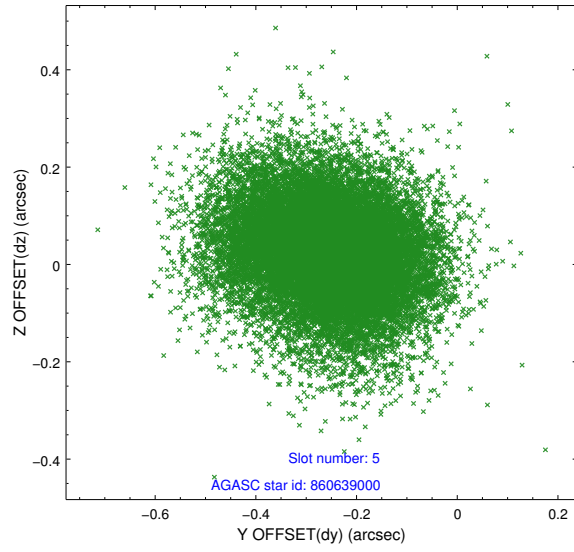
2.4.1 Slot 3



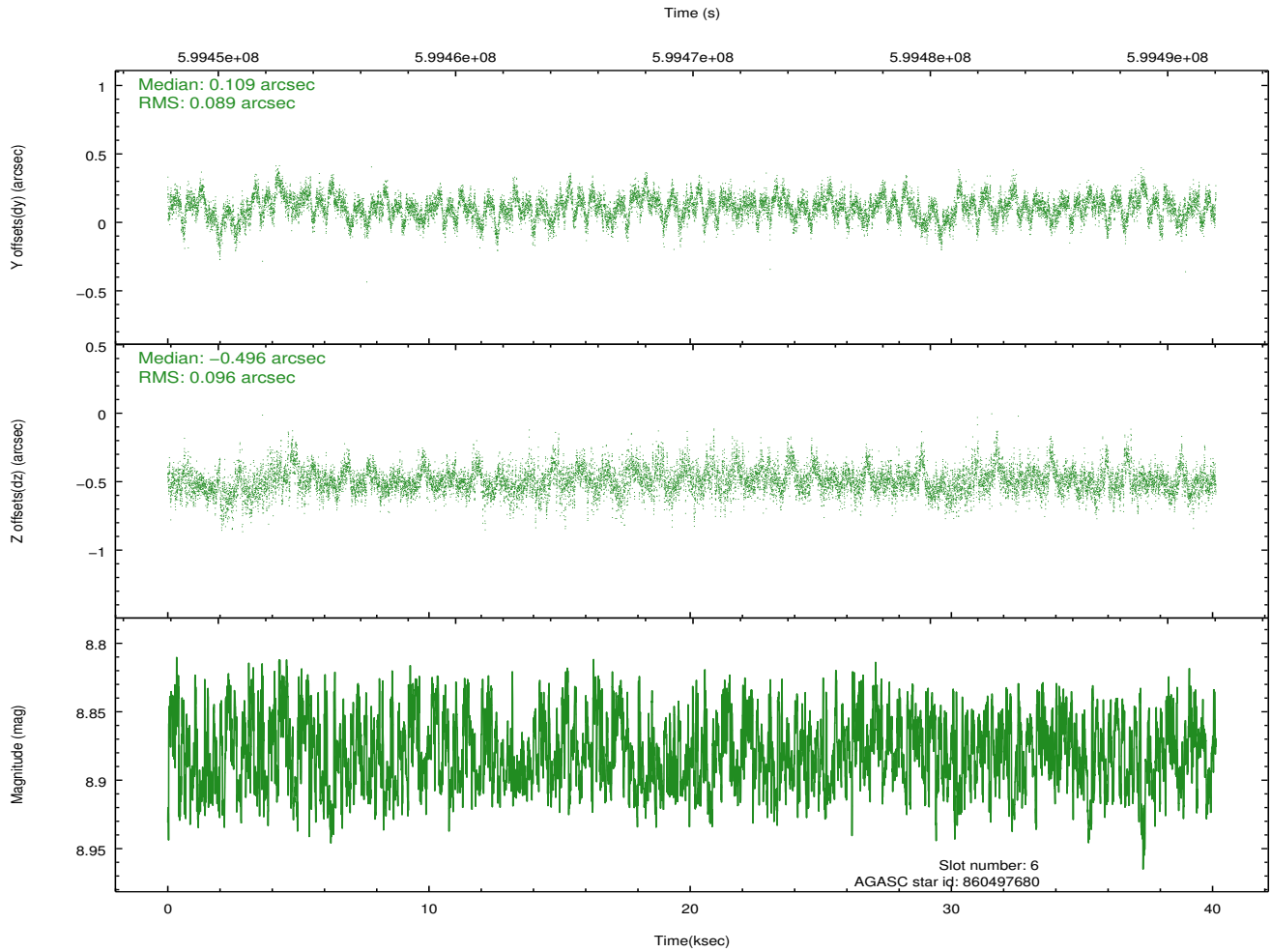
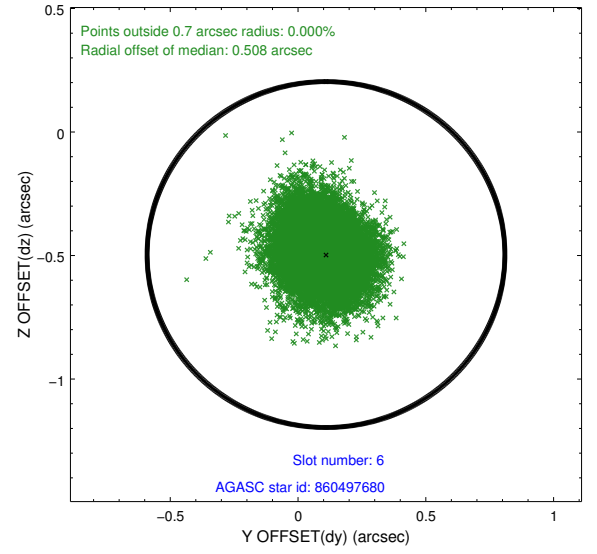
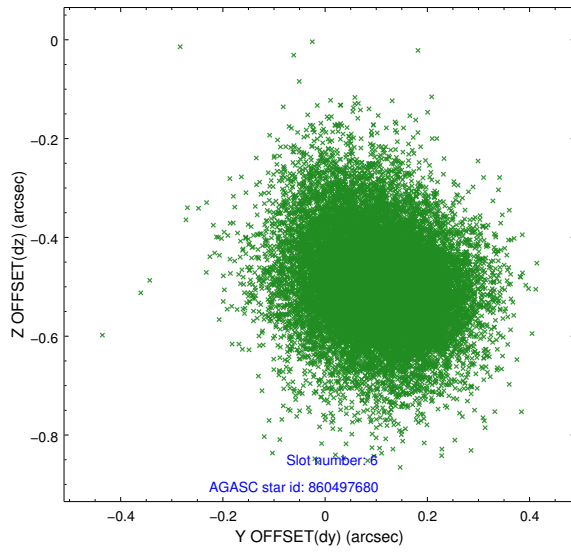
2.4.2 Slot 4



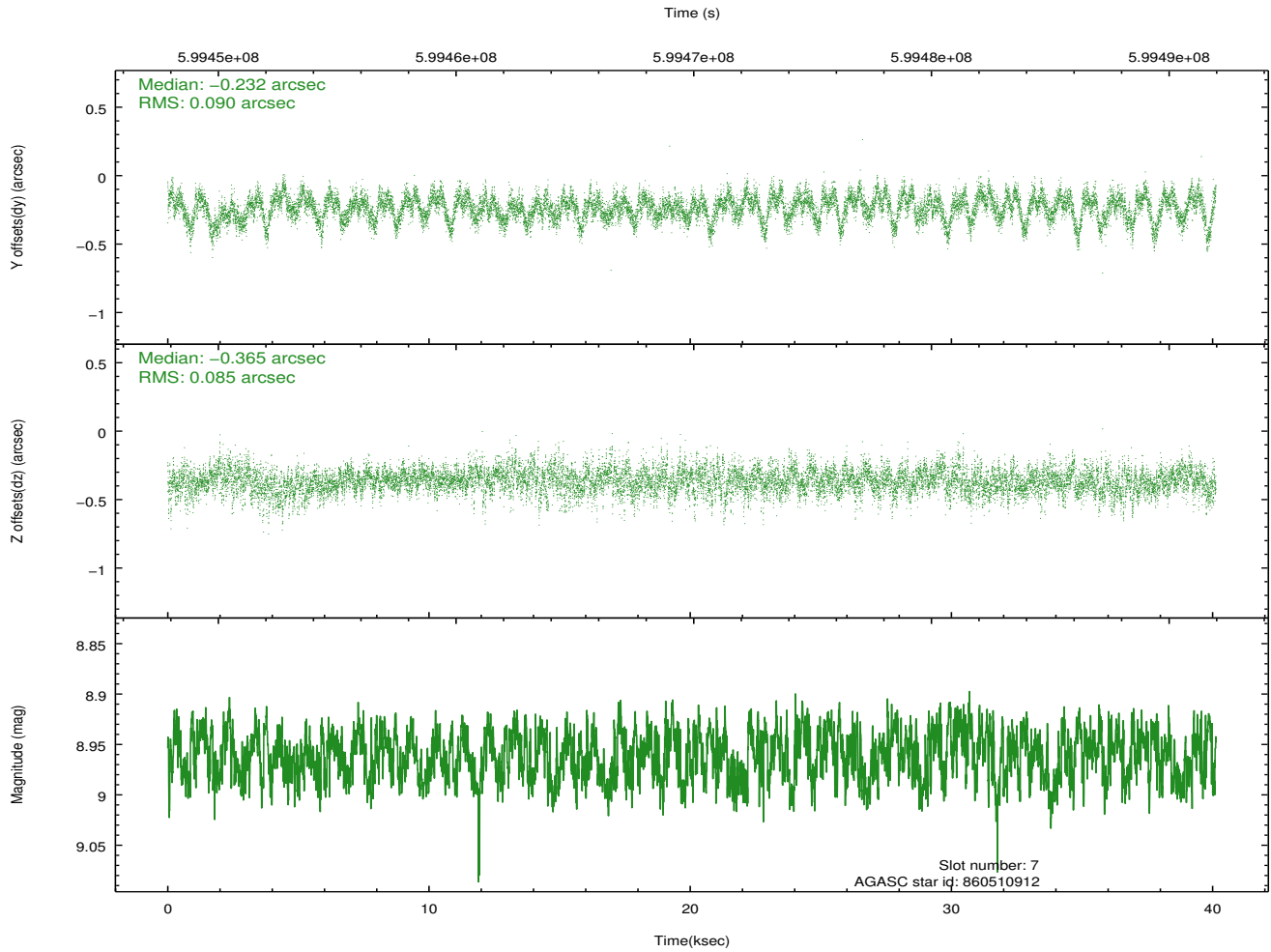
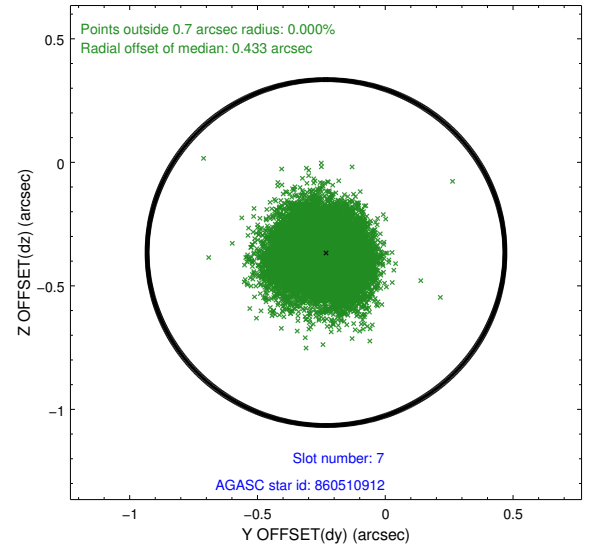
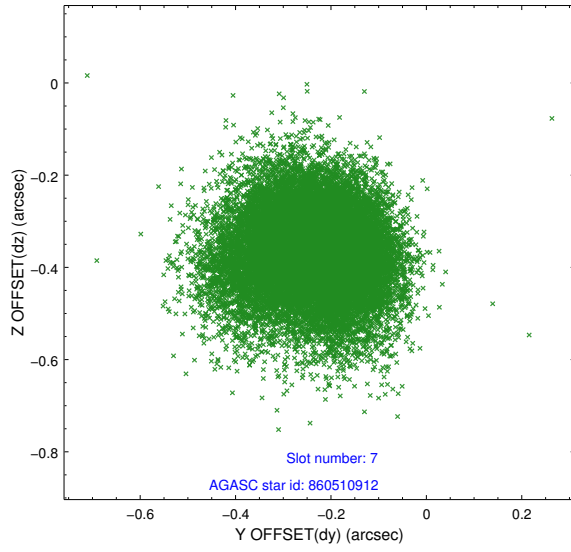
2.4.3 Slot 5



2.4.4 Slot 6

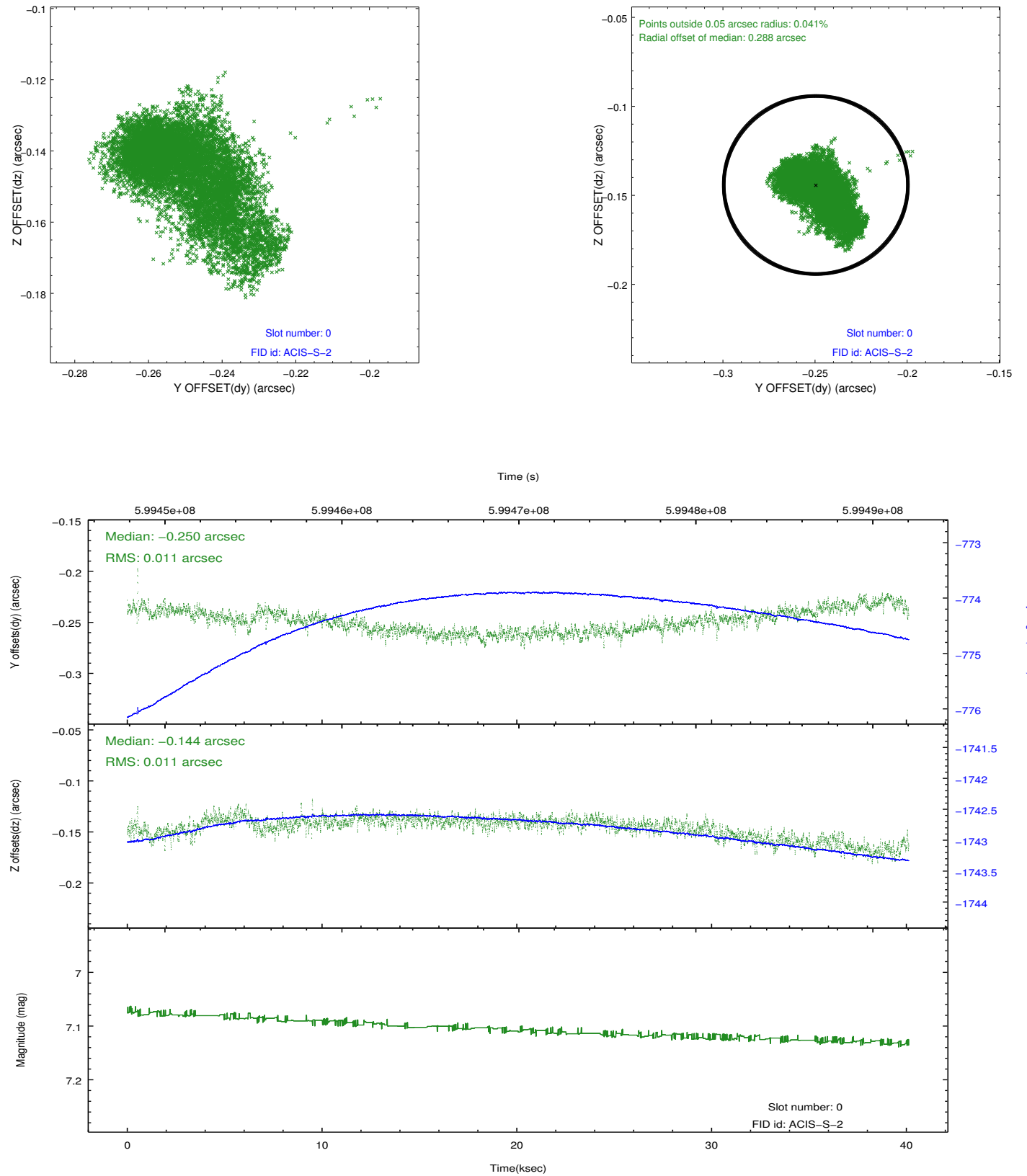


2.4.5 Slot 7

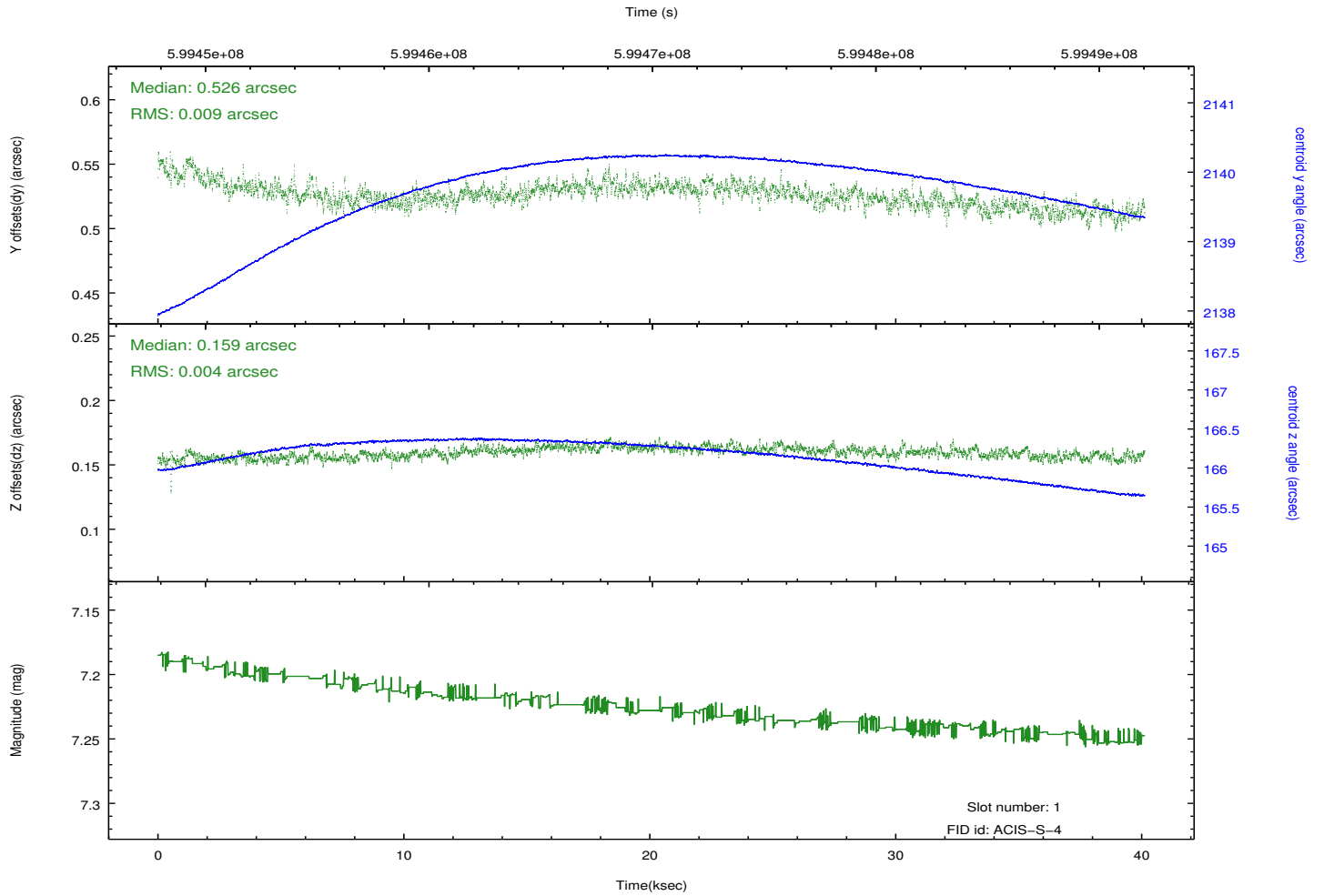
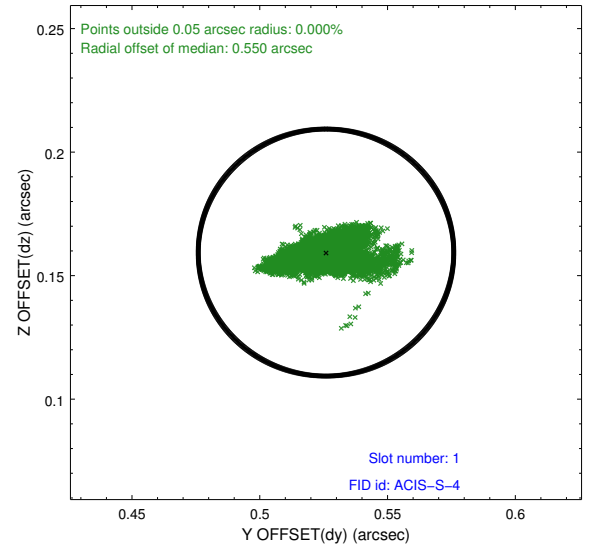
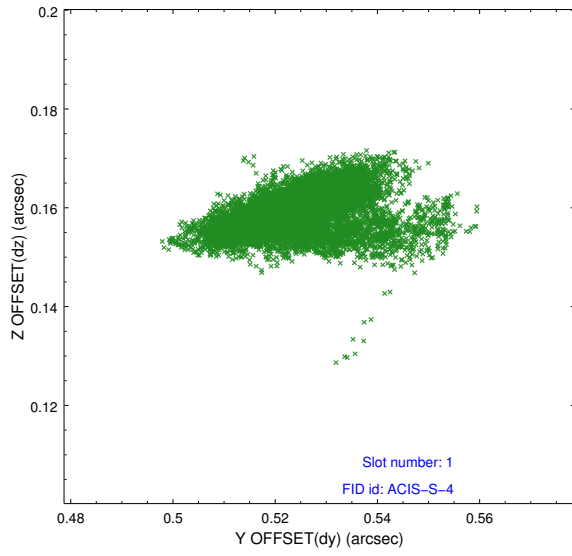


2.5 FID Slots

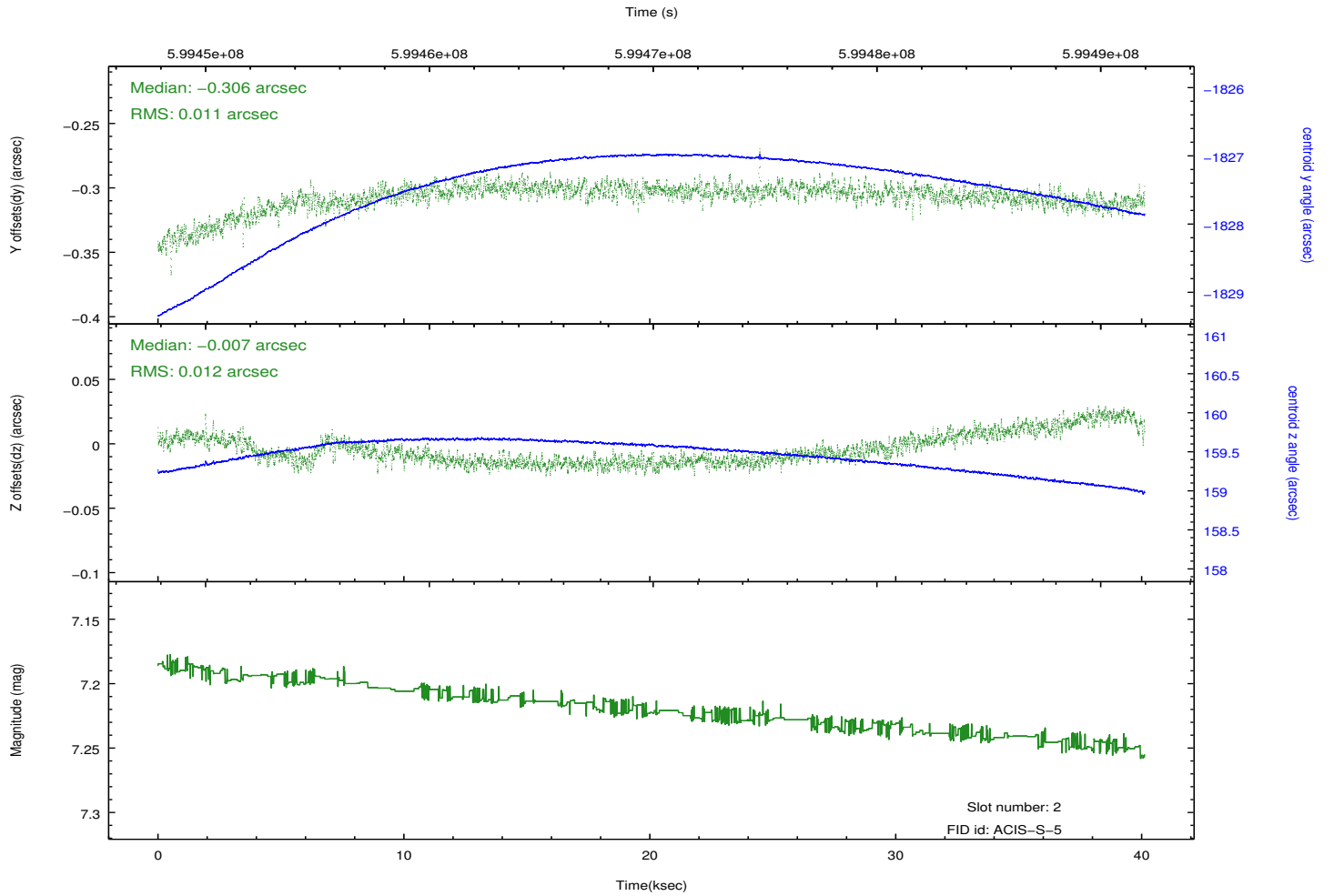
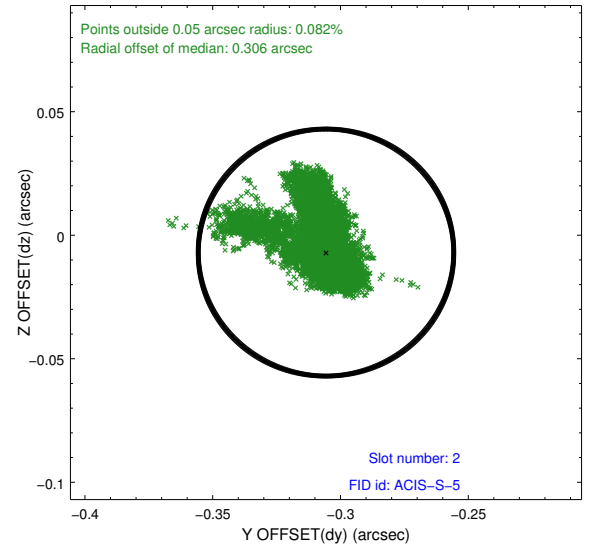
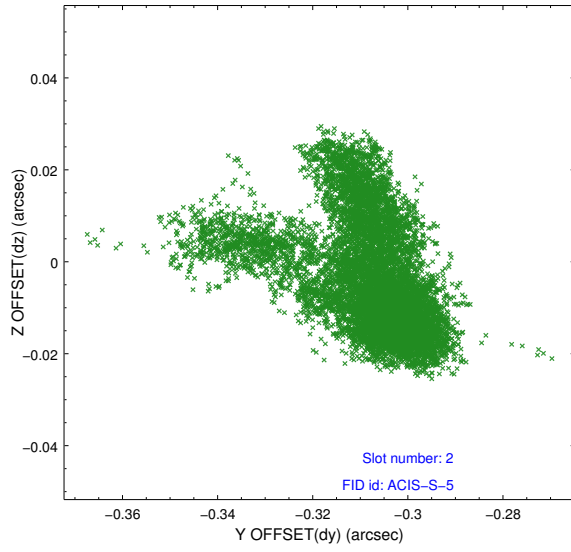
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.12.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.07575

A.2 Comments