

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 17605 - L2 Version 1
Chandra X-Ray Center

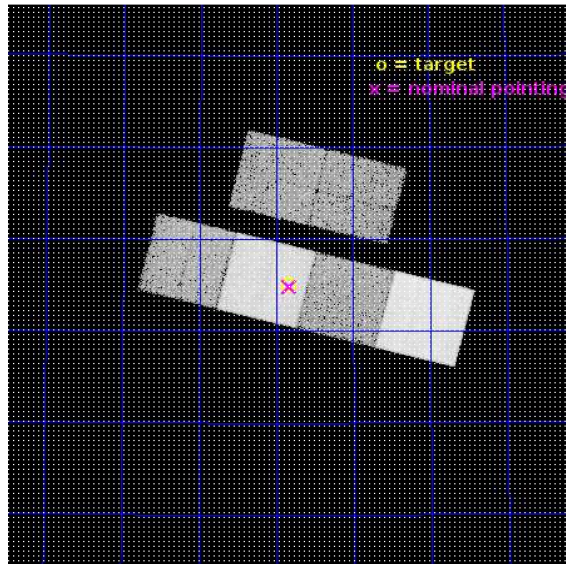
L2 Processing Date : Jun 17 2016

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1 Front

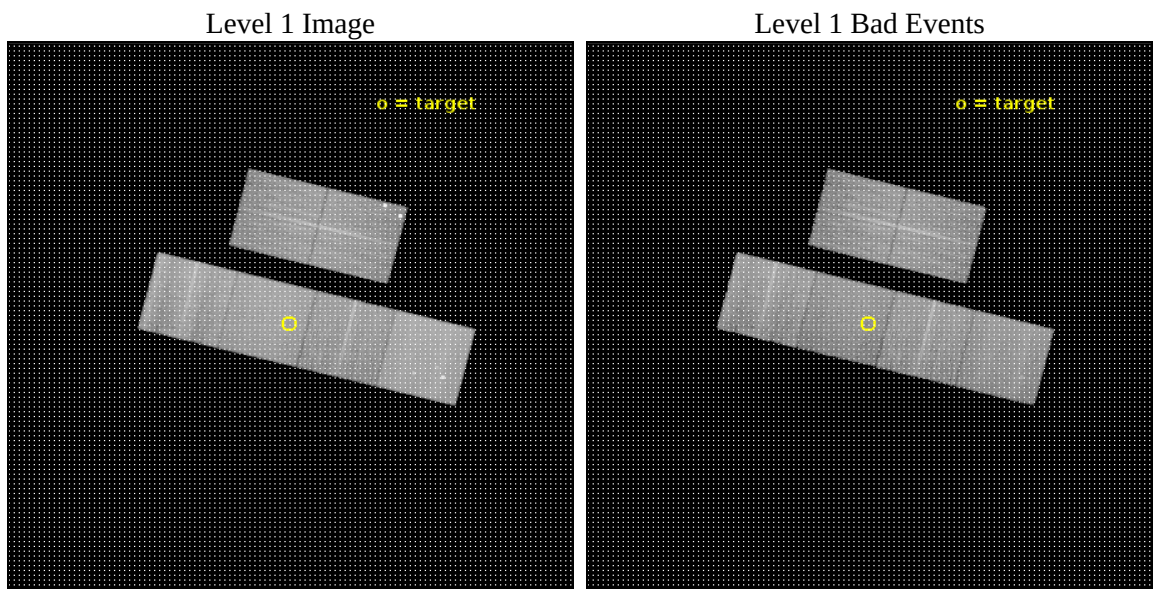
seq_num	703124	Sequence number
obs_id	17605	Observation id
title	X-Ray Production in the Unique Relativistic Tidal Disruption Event Sw1644+57	Proposal title
observer	Dr Bevin Zauderer	Principal investigator
object	Sw1644+57	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.207917	Observer's specified target RA [deg]
dec_targ	57.58325	Observer's specified target Dec [deg]
ra_nom	251.20741872379	Nominal RA [deg]
dec_nom	57.580588270944	Nominal Dec [deg]
roll_nom	194.1570469445	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24931.200371504	Sum of GTIs [s]
livetime	24615.506500633	Livetime [s]
ontime2	24931.200371504	Sum of GTIs [s]
ontime3	24927.959351182	Sum of GTIs [s]
ontime5	24931.200371504	Sum of GTIs [s]
ontime6	24931.200371504	Sum of GTIs [s]
ontime7	24931.200371504	Sum of GTIs [s]
ontime8	24931.200371504	Sum of GTIs [s]
l2events	252658	Number of level 2 events



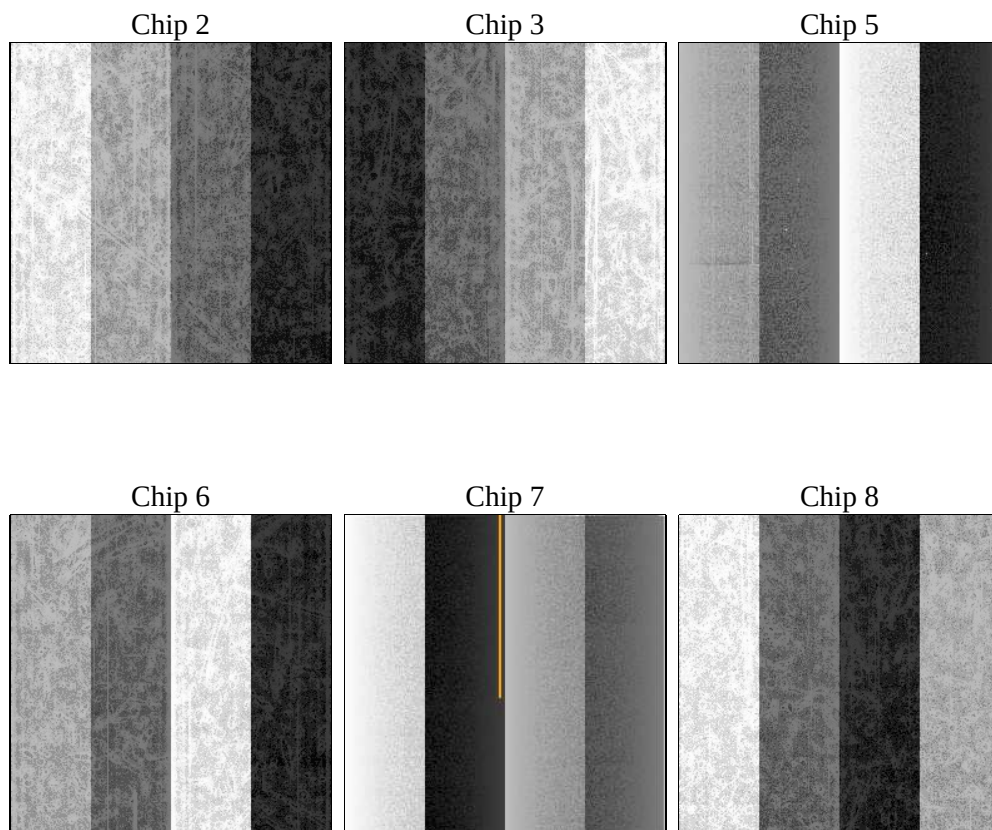
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	24931.200371504	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	24931.200371504	Sum of GTIs [s]
date	2016-06-17T05:56:58	Date and time of file creation	ontime3	24927.959351182	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	24931.200371504	Sum of GTIs [s]
			ontime6	24931.200371504	Sum of GTIs [s]
			ontime7	24931.200371504	Sum of GTIs [s]
			ontime8	24931.200371504	Sum of GTIs [s]
			l1events	1129756	Number of level 1 events

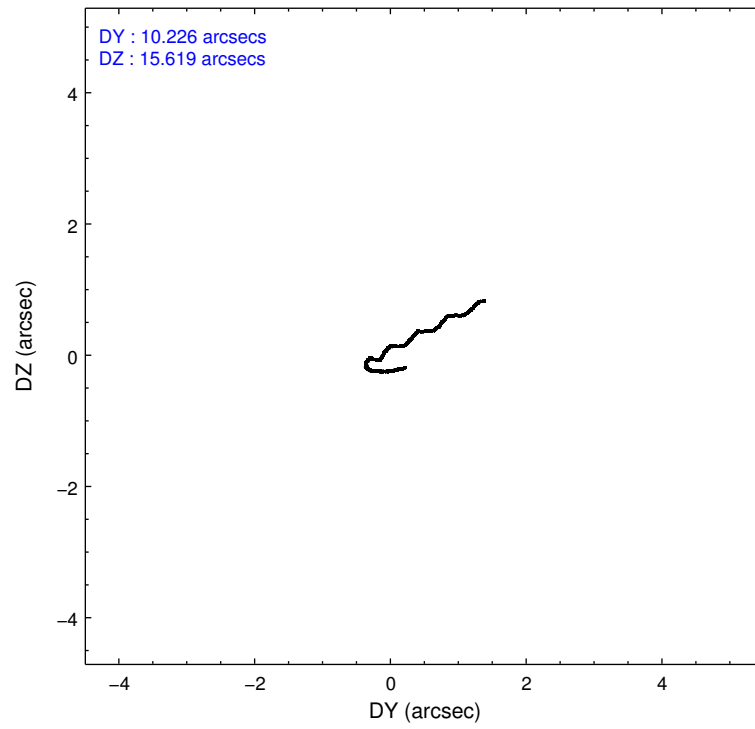
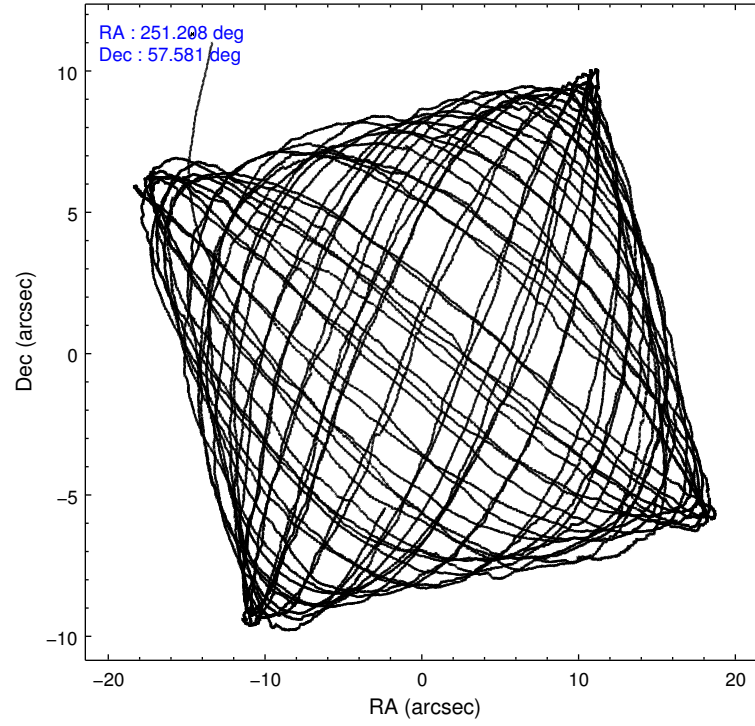
2.1.4 Events

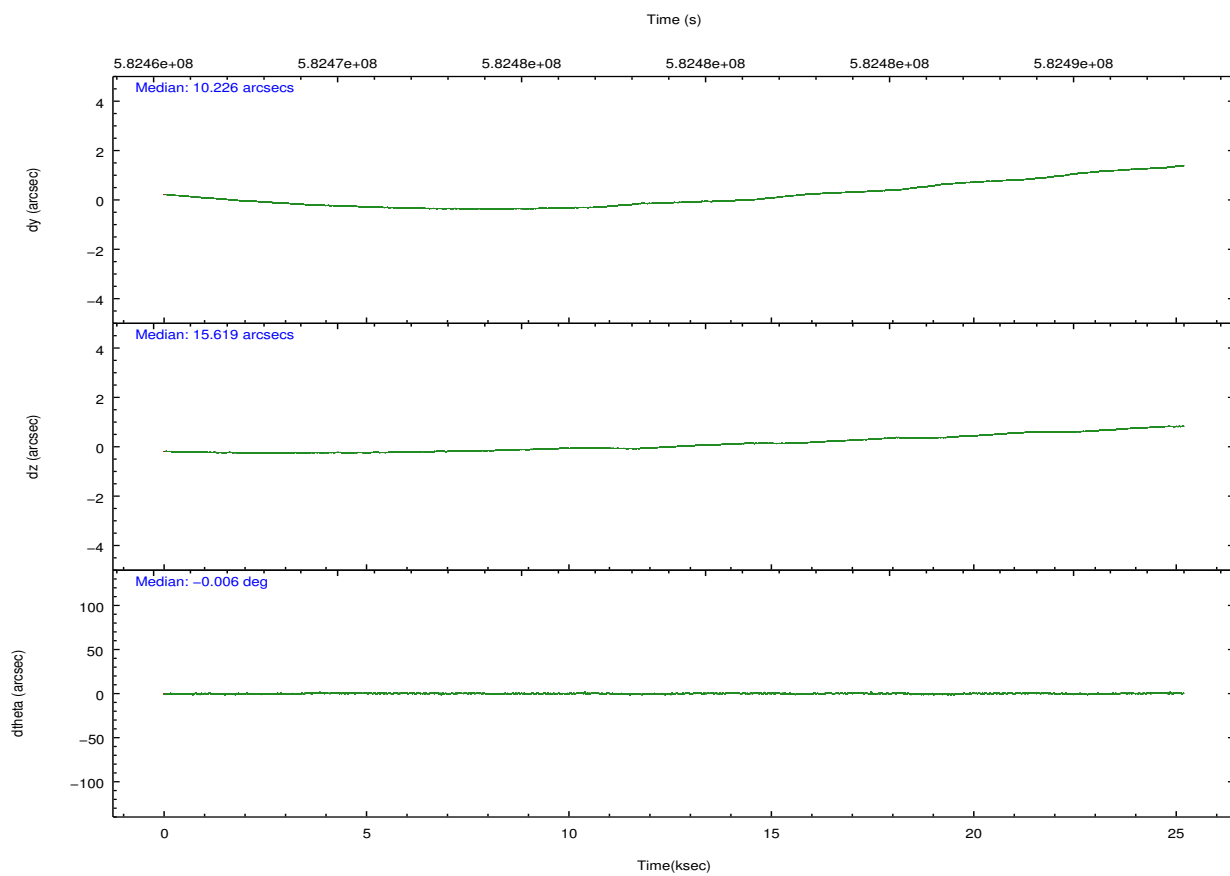
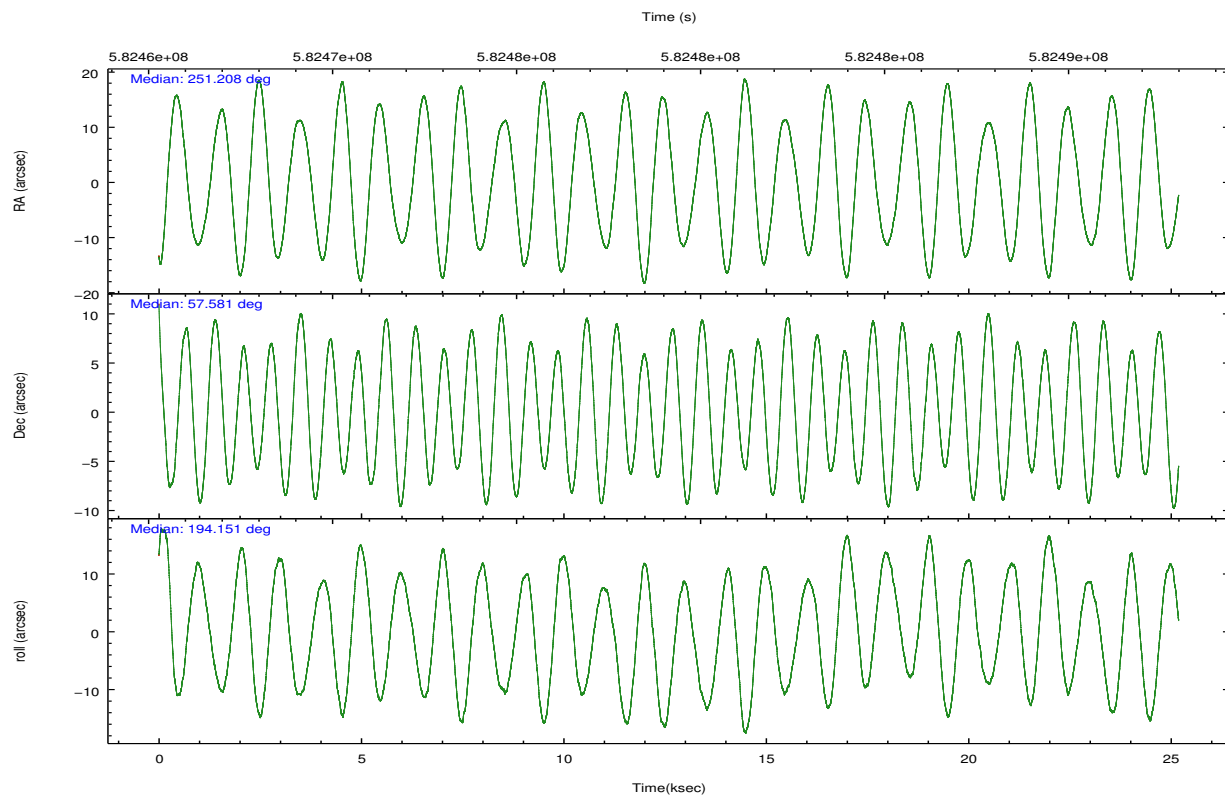
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	173837	151475	245082	159858	197931	201573	grade 0 events	5516	5438	8272	5695	6848	14303
rejected events	142999	135629	127568	142441	113607	150663		3%	3%	3%	3%	3%	7%
rejected %	82%	89%	52%	89%	57%	74%	grade 1 events	86	79	792	82	249	142
								0%	0%	0%	0%	0%	0%
							grade 2 events	18821	3503	37667	4113	17706	12578
								10%	2%	15%	2%	8%	6%
							grade 3 events	1578	1714	3411	1688	6447	5219
								0%	1%	1%	1%	3%	2%
							grade 4 events	1633	1701	3184	1548	6308	4829
								0%	1%	1%	0%	3%	2%
							grade 5 events	6164	7226	16151	7042	19002	10915
								3%	4%	6%	4%	9%	5%
							grade 6 events	3292	3497	65008	4374	47024	14006
								1%	2%	26%	2%	23%	6%
							grade 7 events	136747	128317	110597	135316	94347	139581
								78%	84%	45%	84%	47%	69%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	251.243708	251.2074187237868	CCD I2 on	O1	Y
[deg] Pointing Dec	57.599981	57.58058827094366	CCD I3 on	O2	Y
[deg] Pointing Roll	193.969785	194.1570469444977	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)	582466744.184000	582465680.87593	CCD S5 on	N	N
Observation start date	2016-06-16T12:17:56	2016-06-16T12:01:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	582491744.184000	582492565.60247	On-chip summing requested	N	N
Observation end date	2016-06-16T19:14:36	2016-06-16T19:29:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



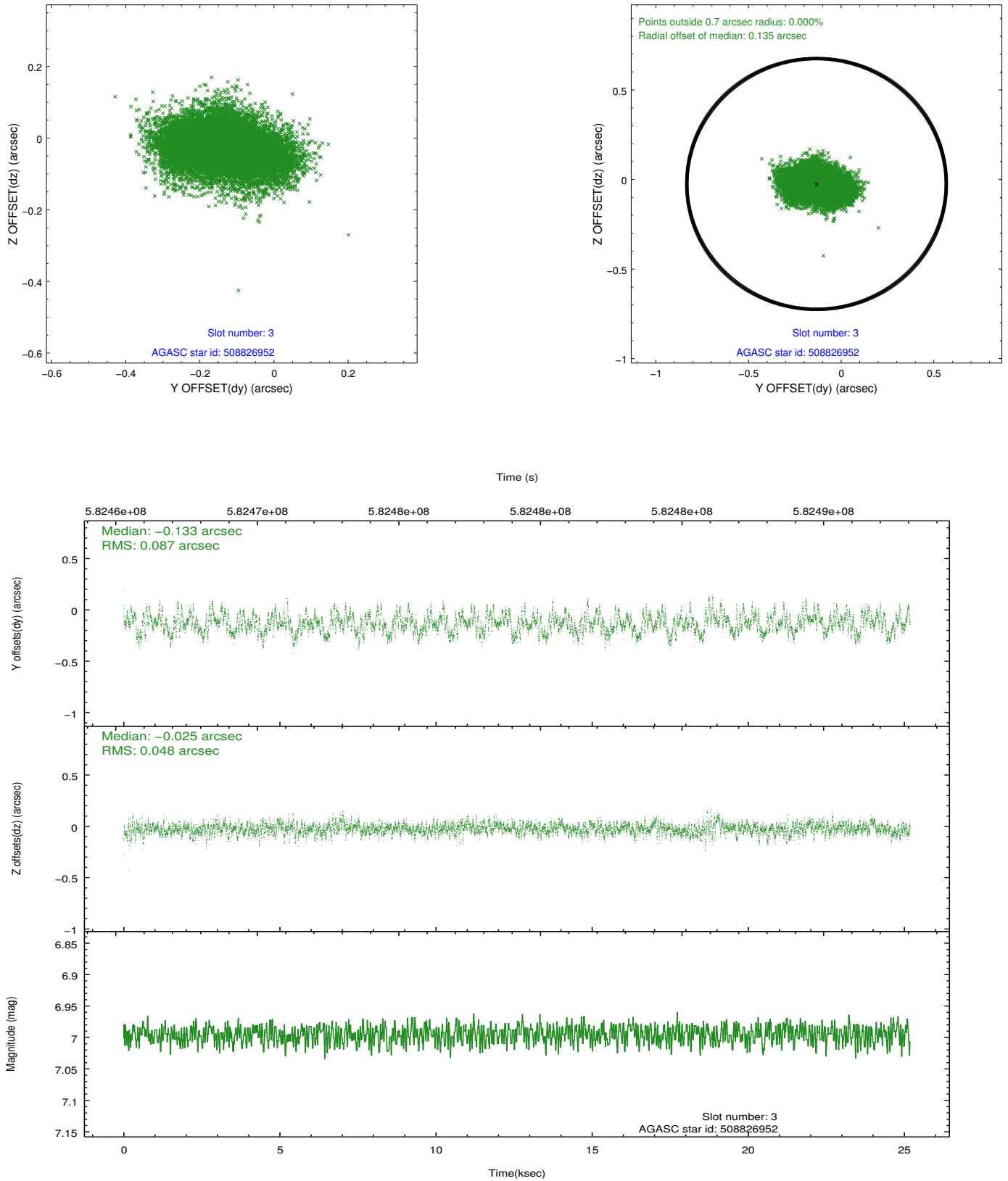


Slot Statistics

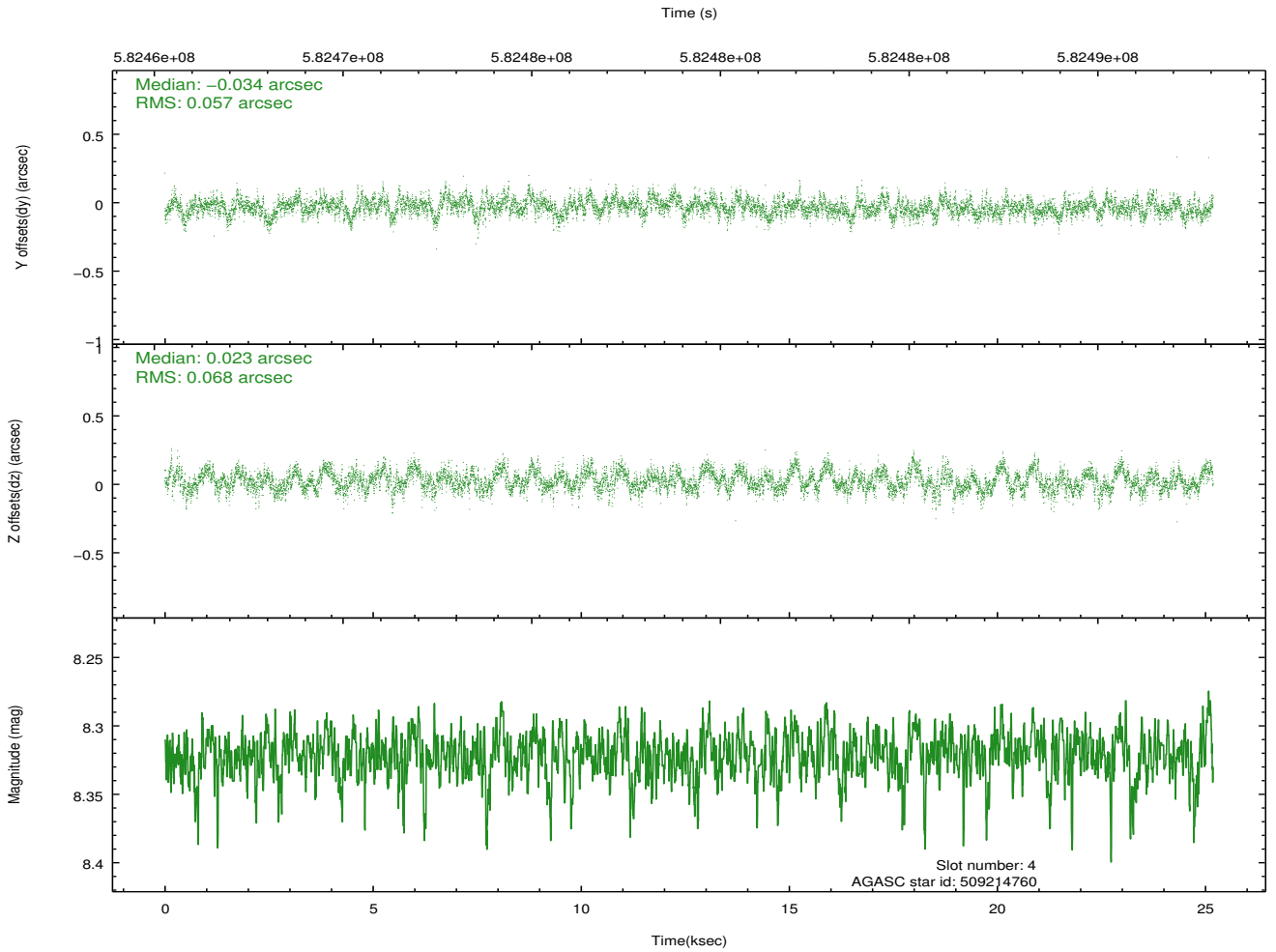
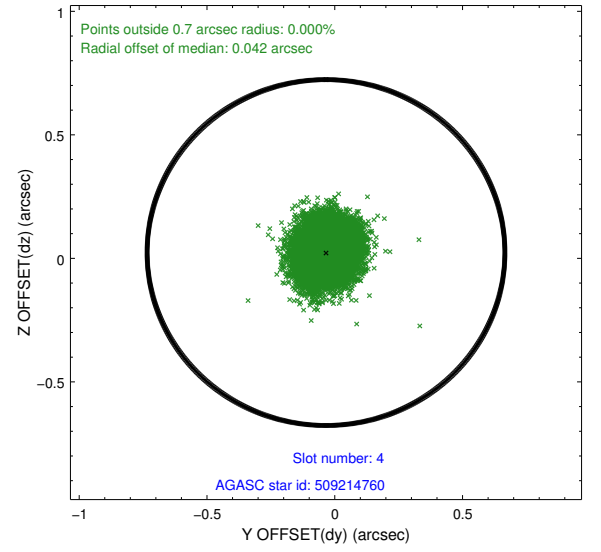
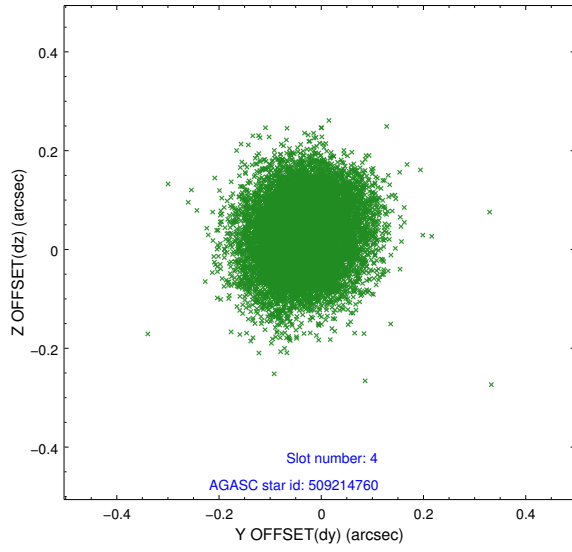
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.20	6144	0.011	-0.078	0.012	0.024	0.000000	0.000000	932.82	-1732.77
1	FID		ACIS-S-4	7.23	6144	0.302	0.053	0.014	0.031	0.000000	0.000000	2150.54	171.42
2	FID		ACIS-S-5	7.24	6143	-0.336	0.037	0.016	0.024	0.000000	0.000000	-1816.29	165.04
3	GUIDE	used	508826952	6.99	12287	-0.133	-0.025	0.106	0.175	252.003832	57.489272	-1332.83	734.13
4	GUIDE	used	509214760	8.32	12280	-0.034	0.023	0.095	0.152	250.589992	57.556199	1262.05	-157.29
5	GUIDE	used	509223192	7.73	12286	-0.055	0.195	0.075	0.119	251.320493	58.085113	-562.81	-1659.27
6	GUIDE	used	509228136	9.25	12278	0.074	-0.081	0.128	0.211	249.958671	57.735608	2273.52	-1091.78
7	GUIDE	used	509214808	8.43	12277	0.144	-0.113	0.132	0.206	250.031669	58.120183	1780.18	-2393.27

2.4 Star Slots

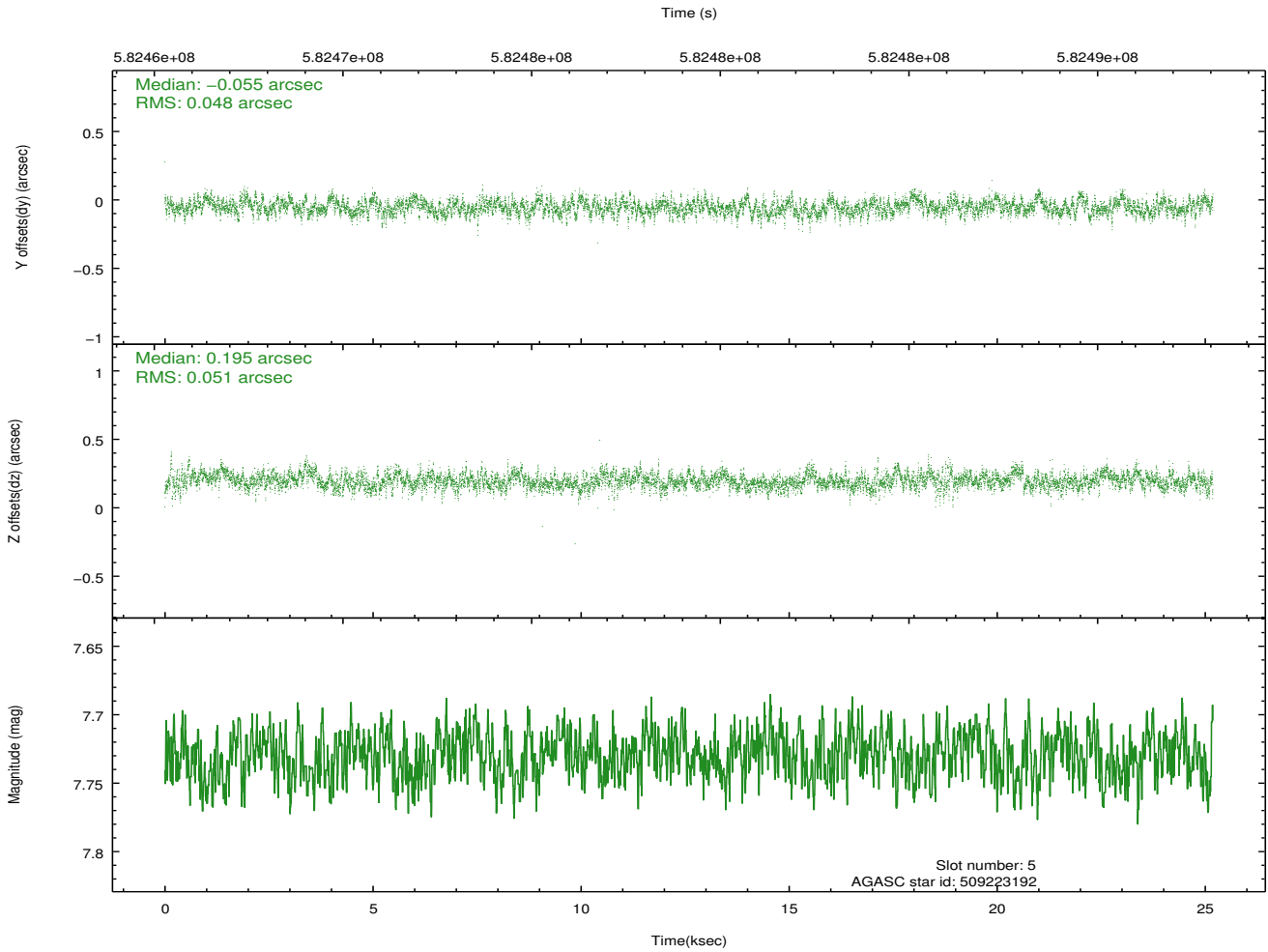
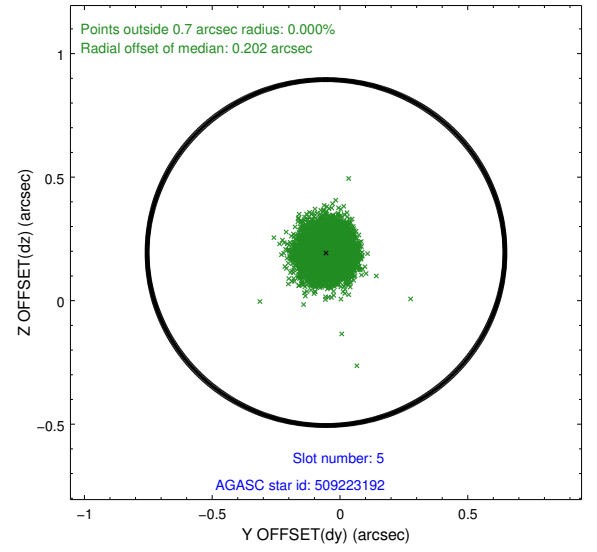
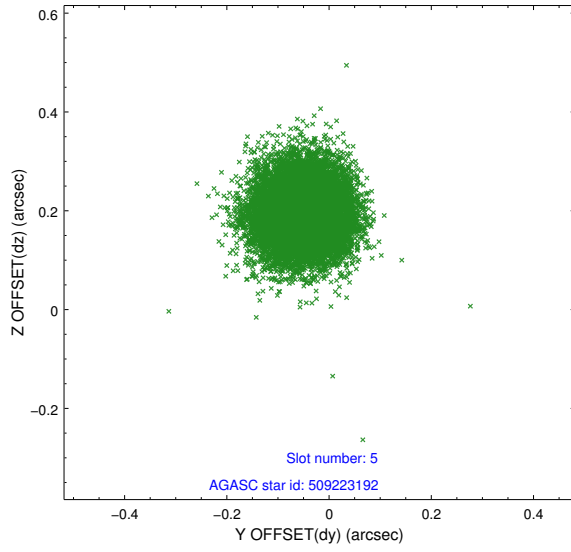
2.4.1 Slot 3



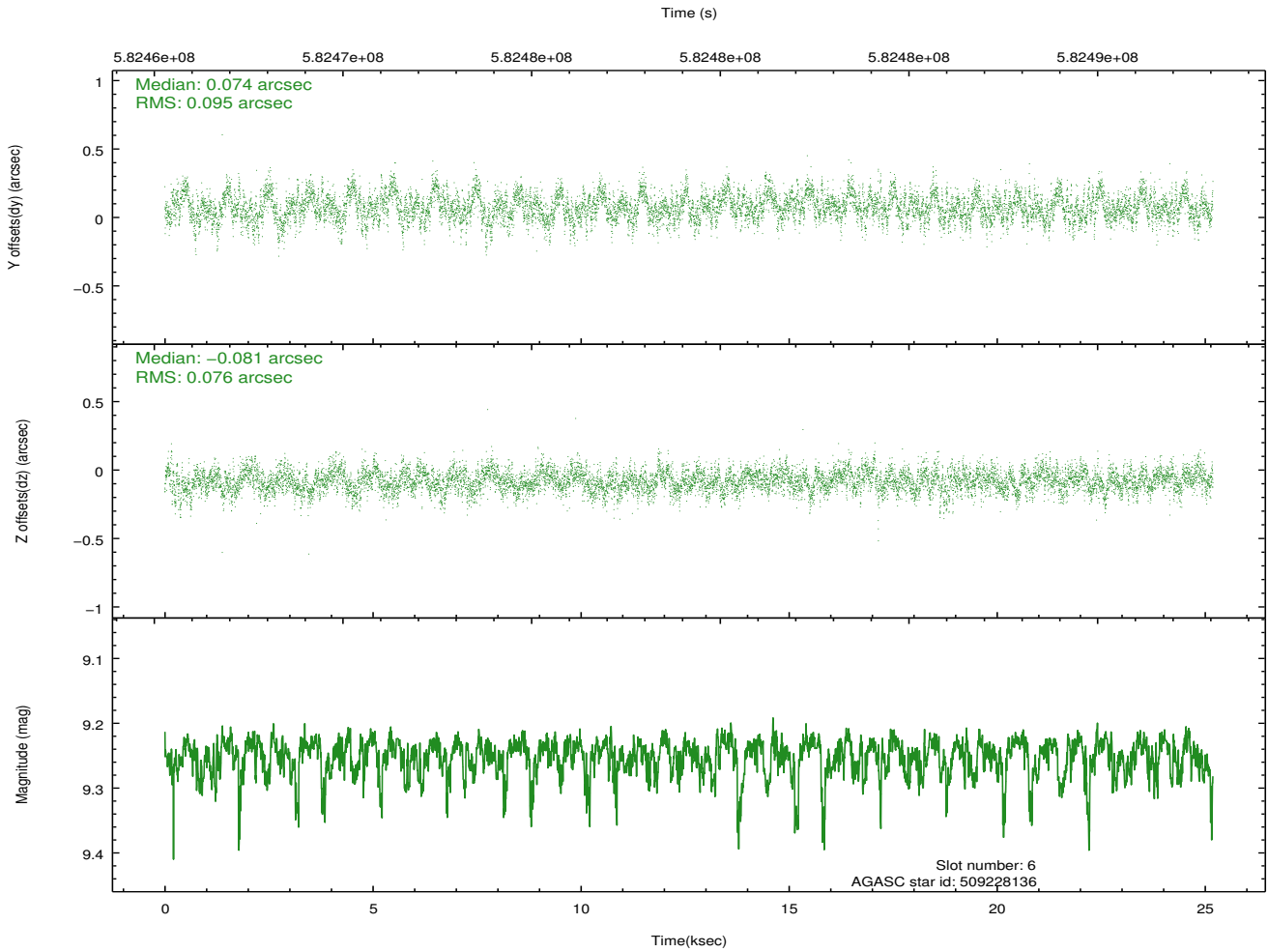
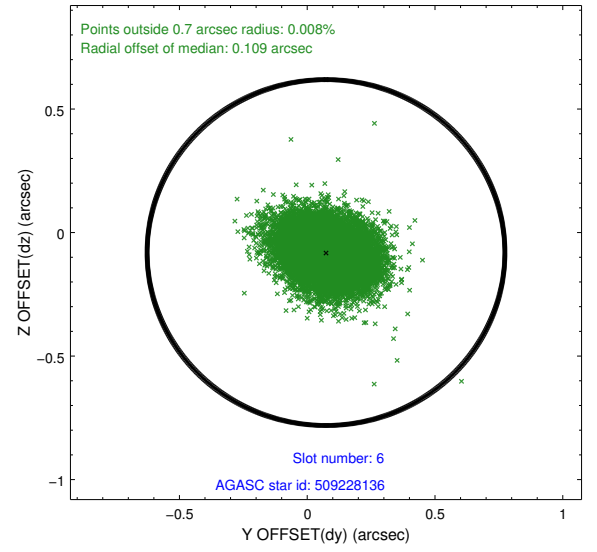
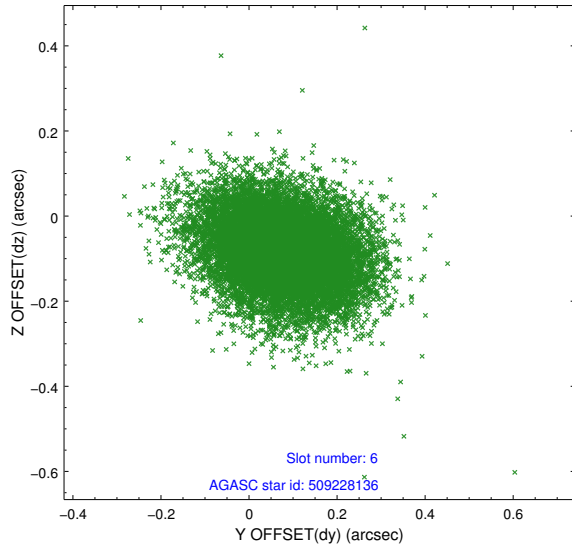
2.4.2 Slot 4



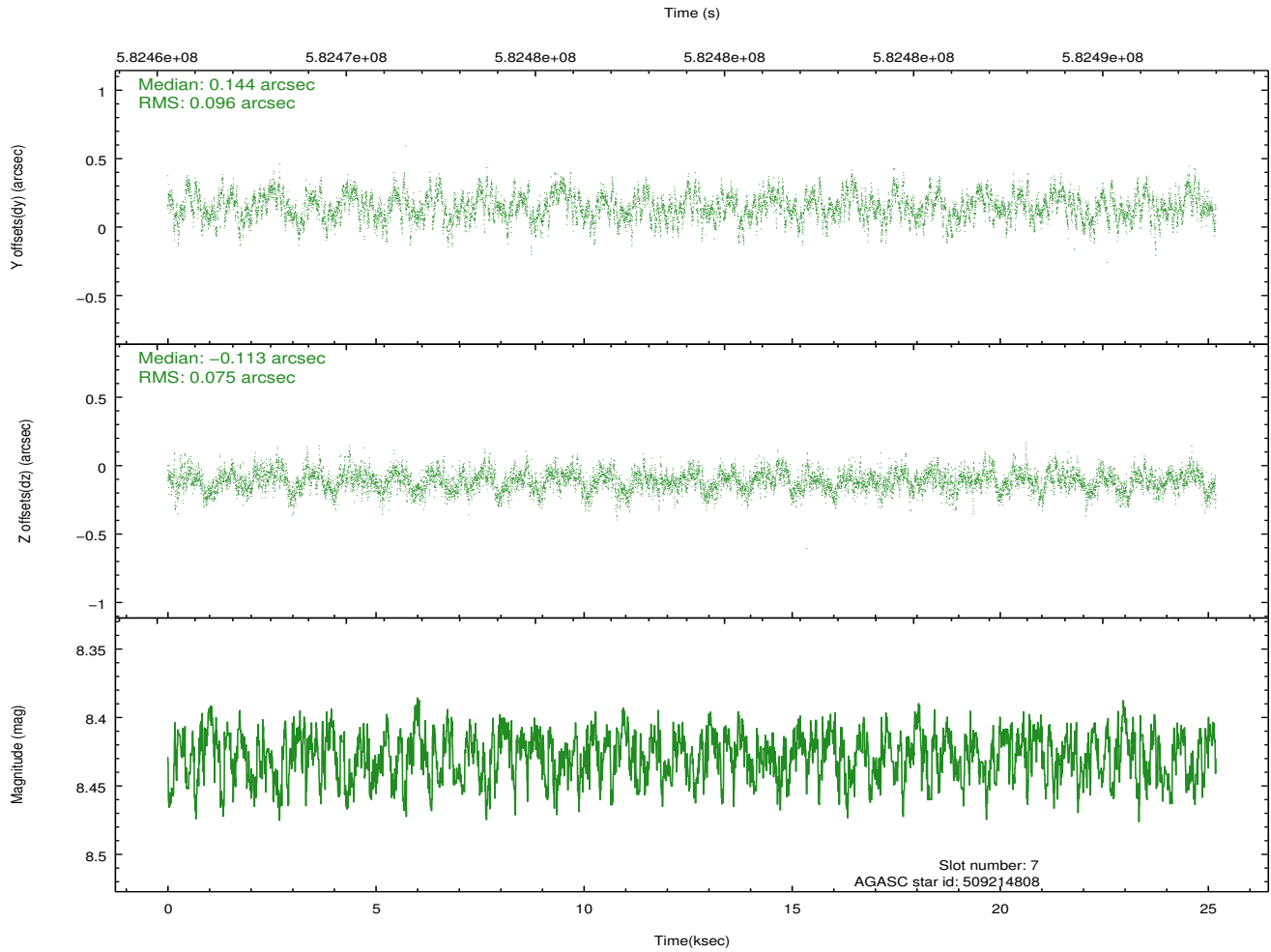
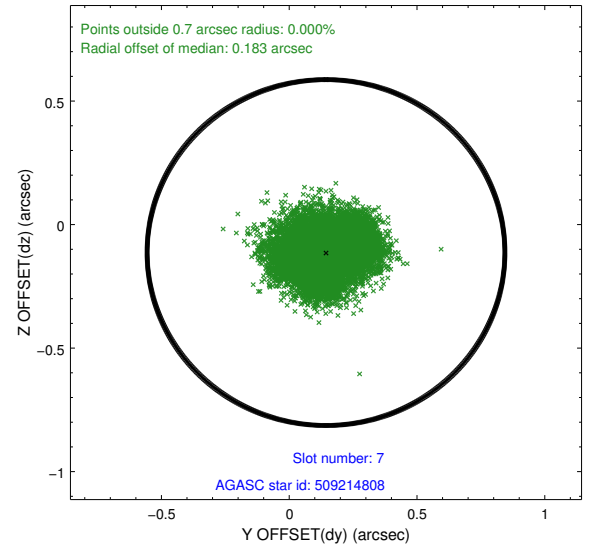
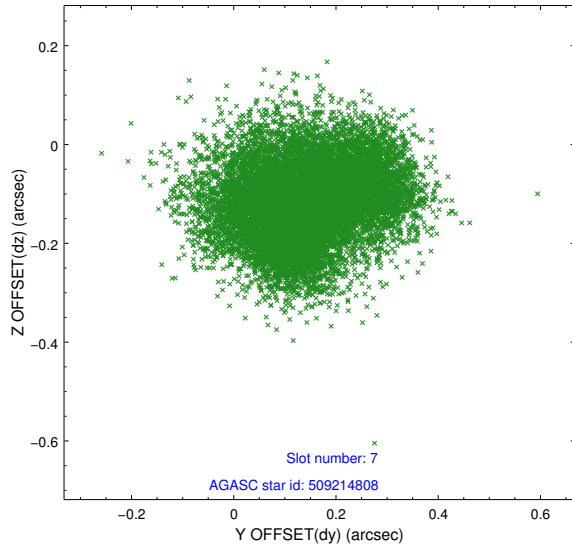
2.4.3 Slot 5



2.4.4 Slot 6

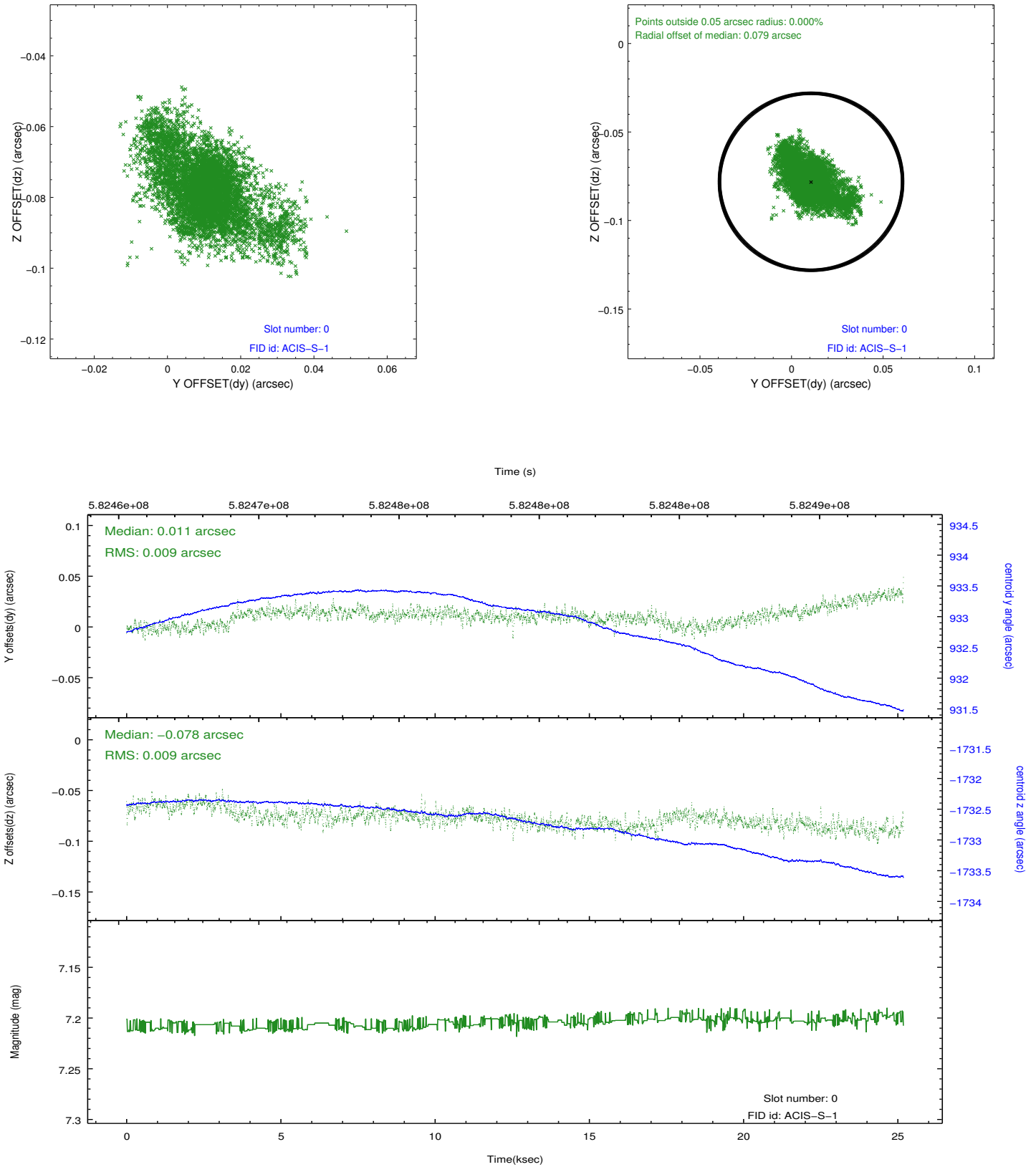


2.4.5 Slot 7

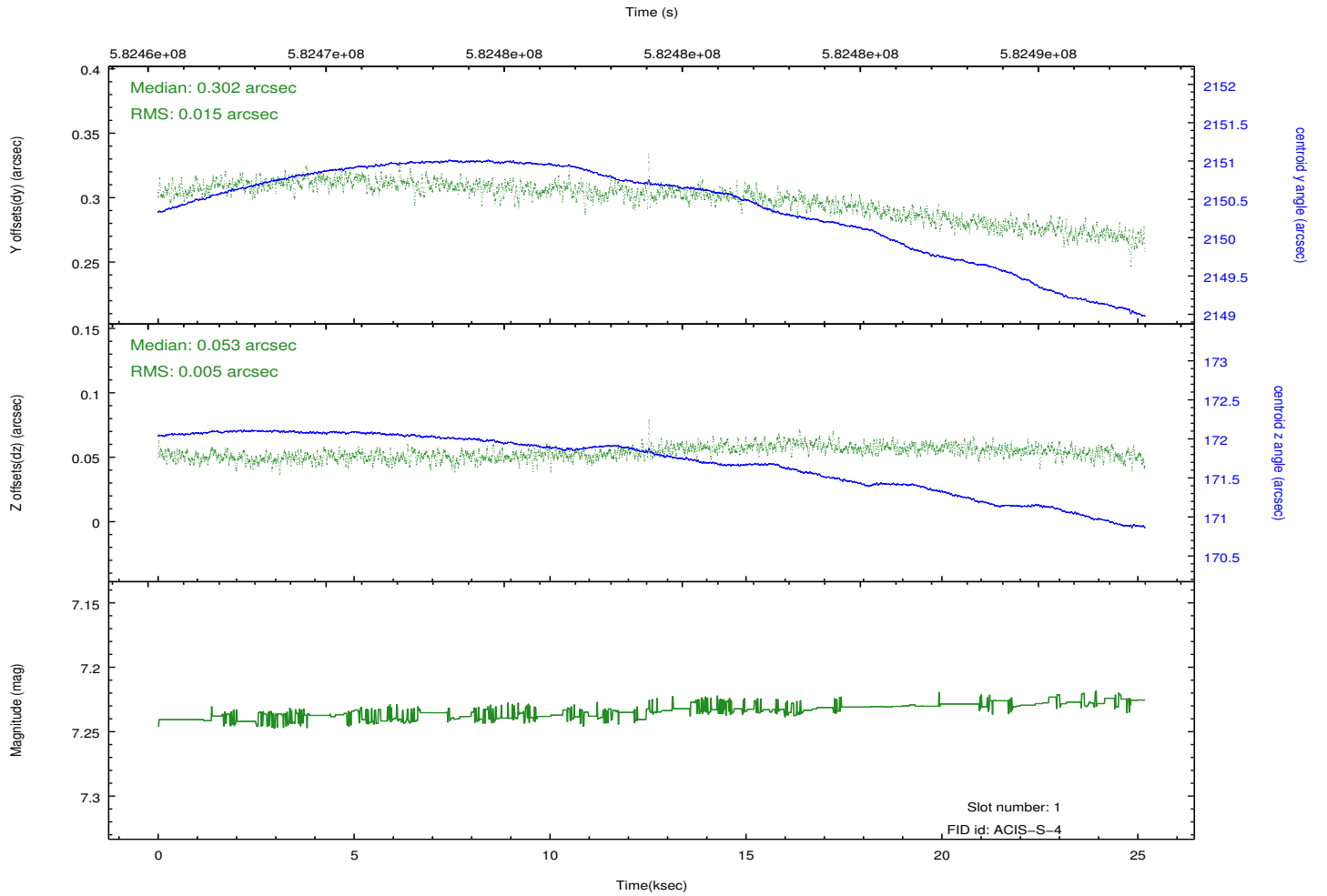
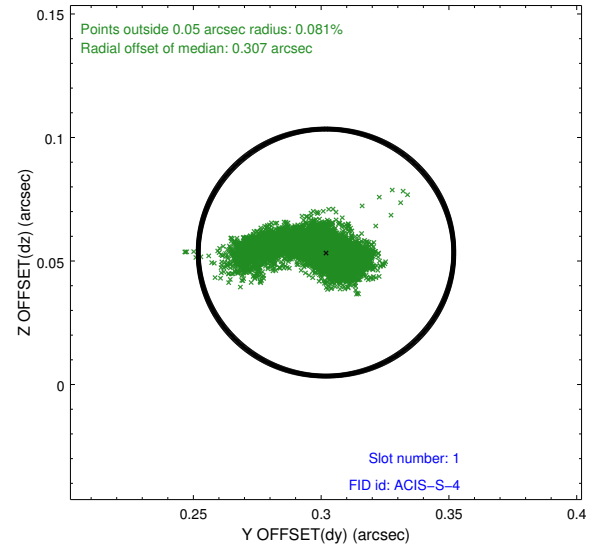
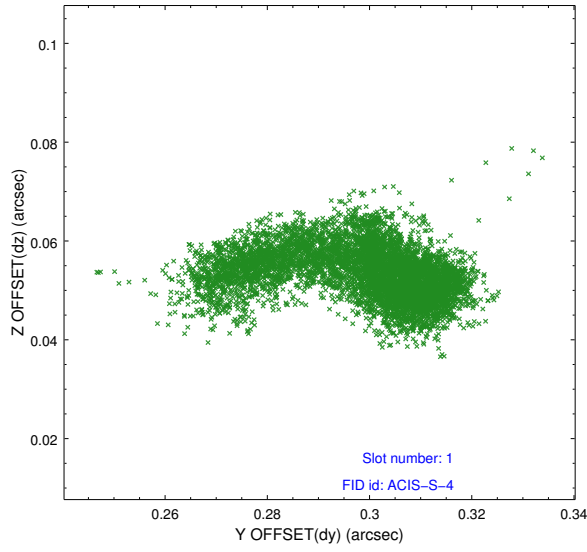


2.5 FID Slots

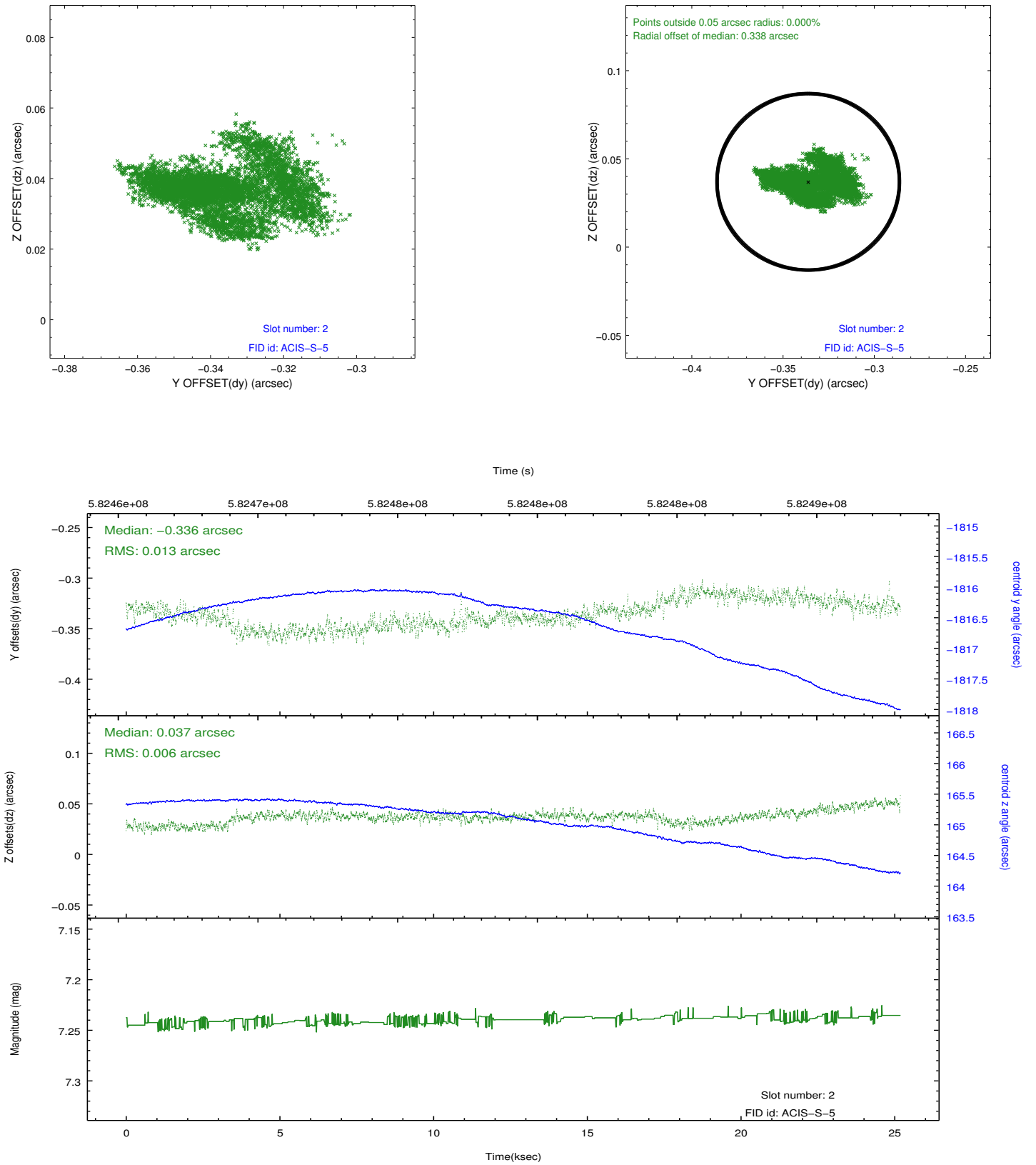
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.931200371504

A.2 Comments