

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 20069 - L2 Version 1
Chandra X-Ray Center

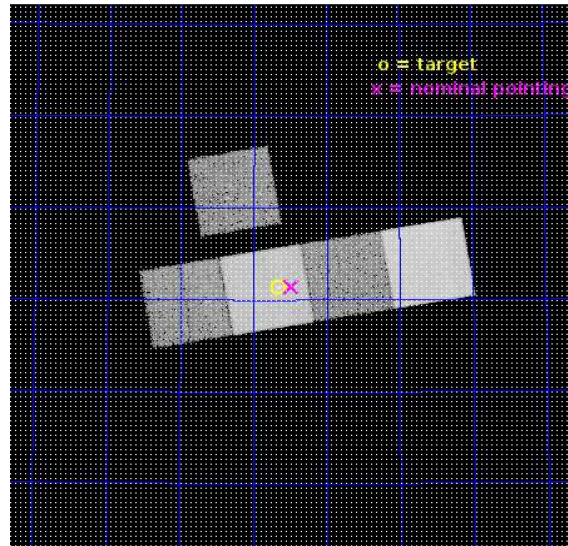
L2 Processing Date : May 7 2017

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1 Front

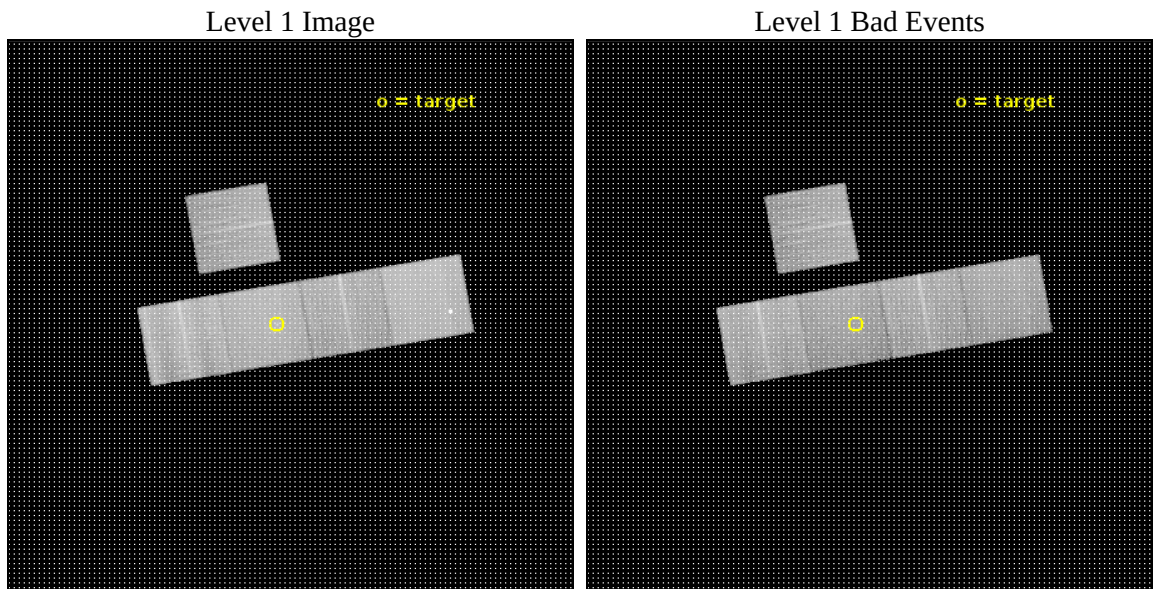
seq_num	801594	Sequence number
obs_id	20069	Observation id
title	The origin of the cold gas in the hot core of the LGG 402 galaxy group	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	LGG 402	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.665833	Observer's specified target RA [deg]
dec_targ	59.355833	Observer's specified target Dec [deg]
ra_nom	234.6205920737	Nominal RA [deg]
dec_nom	59.357429242429	Nominal Dec [deg]
roll_nom	170.19559613117	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23048.500177383	Sum of GTIs [s]
livetime	22747.354554507	Livetime [s]
ontime3	23048.500177383	Sum of GTIs [s]
ontime5	23048.500177383	Sum of GTIs [s]
ontime6	23048.500177383	Sum of GTIs [s]
ontime7	23048.500177383	Sum of GTIs [s]
ontime8	23048.500177383	Sum of GTIs [s]
l2events	259082	Number of level 2 events



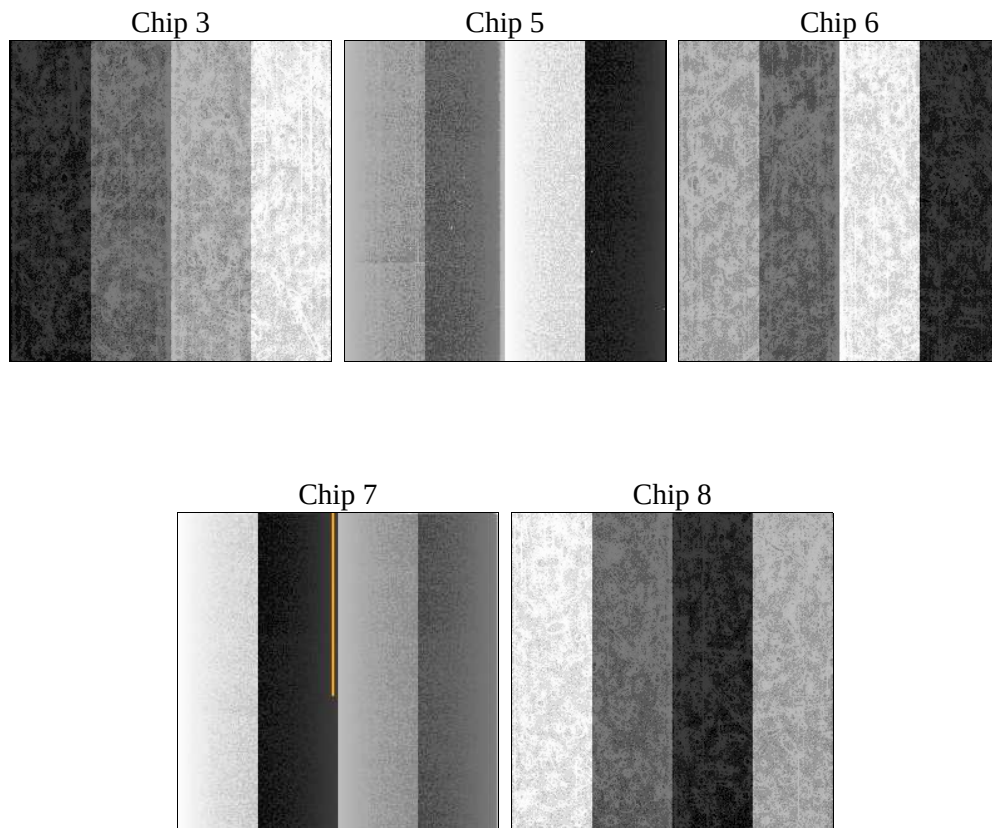
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	23048.500177383	Sum of GTIs [s]
caldsver	4.7.4	 	ontime3	23048.500177383	Sum of GTIs [s]
date	2017-05-07T22:02:09	Date and time of file creation	ontime5	23048.500177383	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	23048.500177383	Sum of GTIs [s]
			ontime7	23048.500177383	Sum of GTIs [s]
			ontime8	23048.500177383	Sum of GTIs [s]
			l1events	1001118	Number of level 1 events

2.1.4 Events

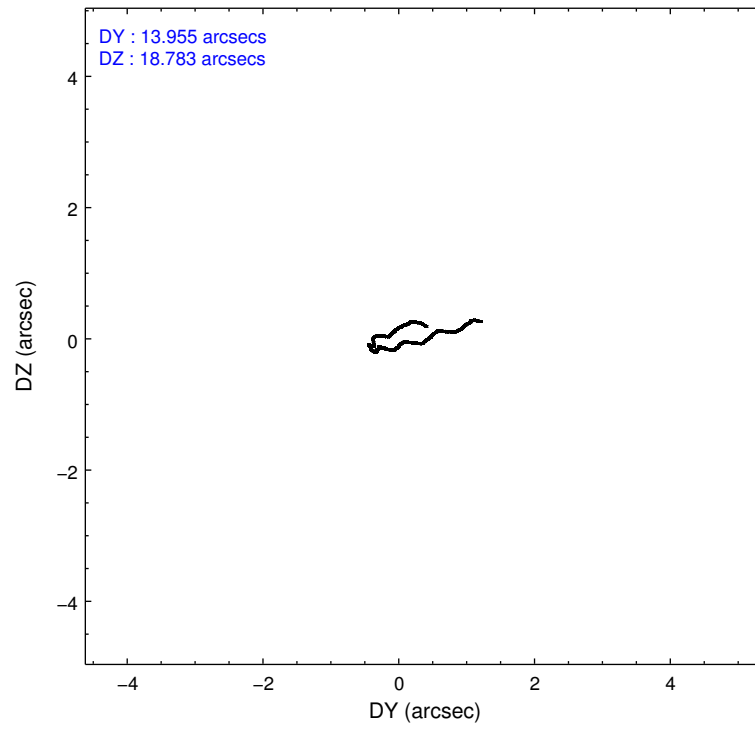
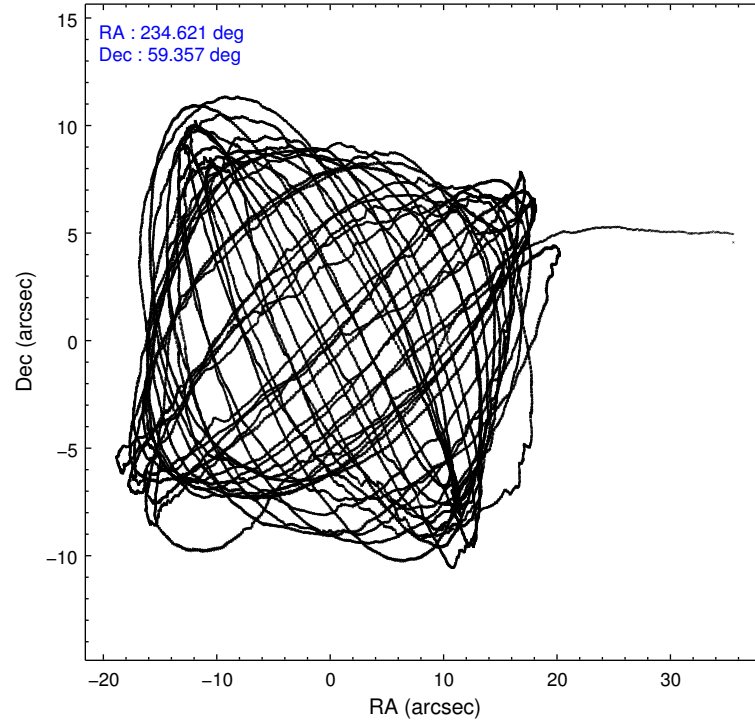
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	156789	255923	166887	206028	215491
rejected events	139843	129993	147954	113842	156150
rejected %	89%	50%	88%	55%	72%

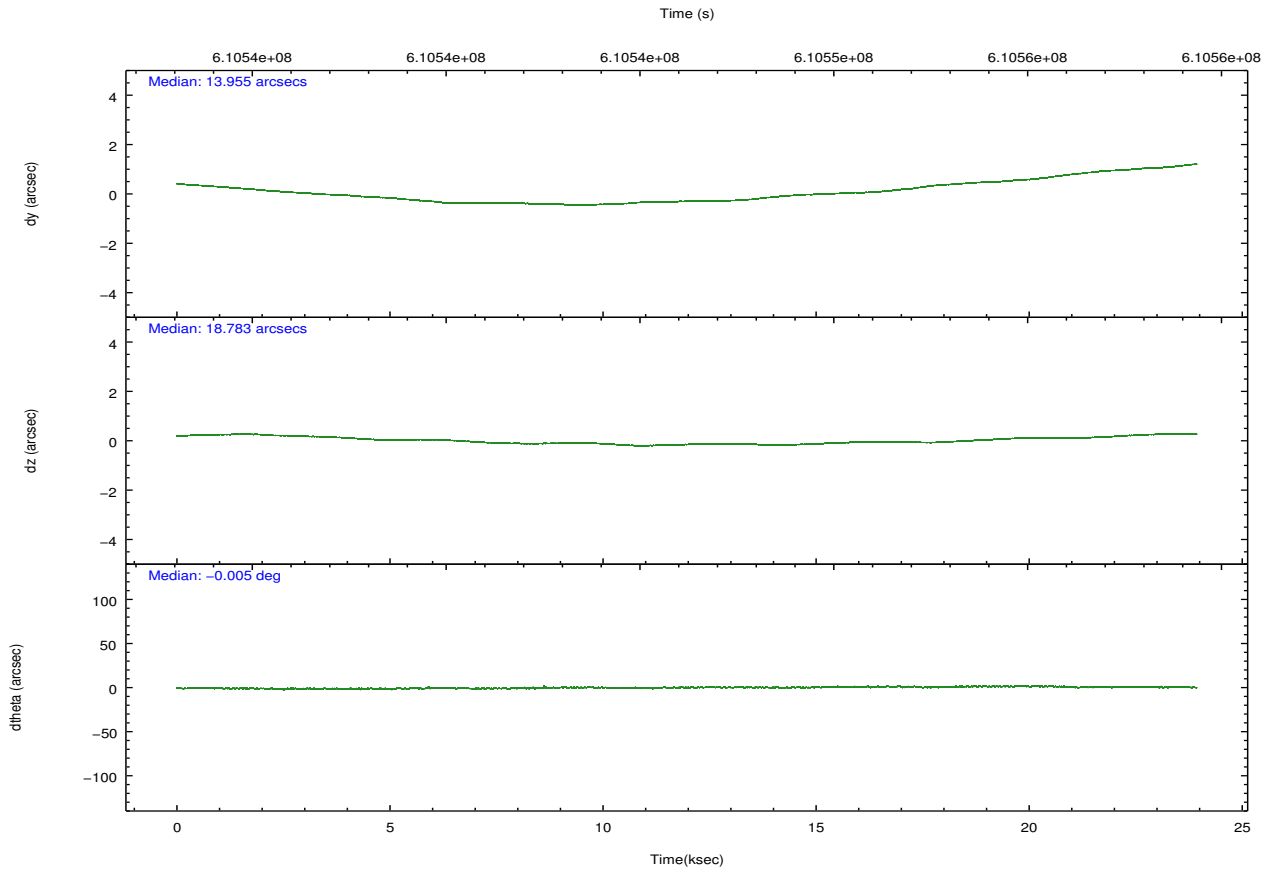
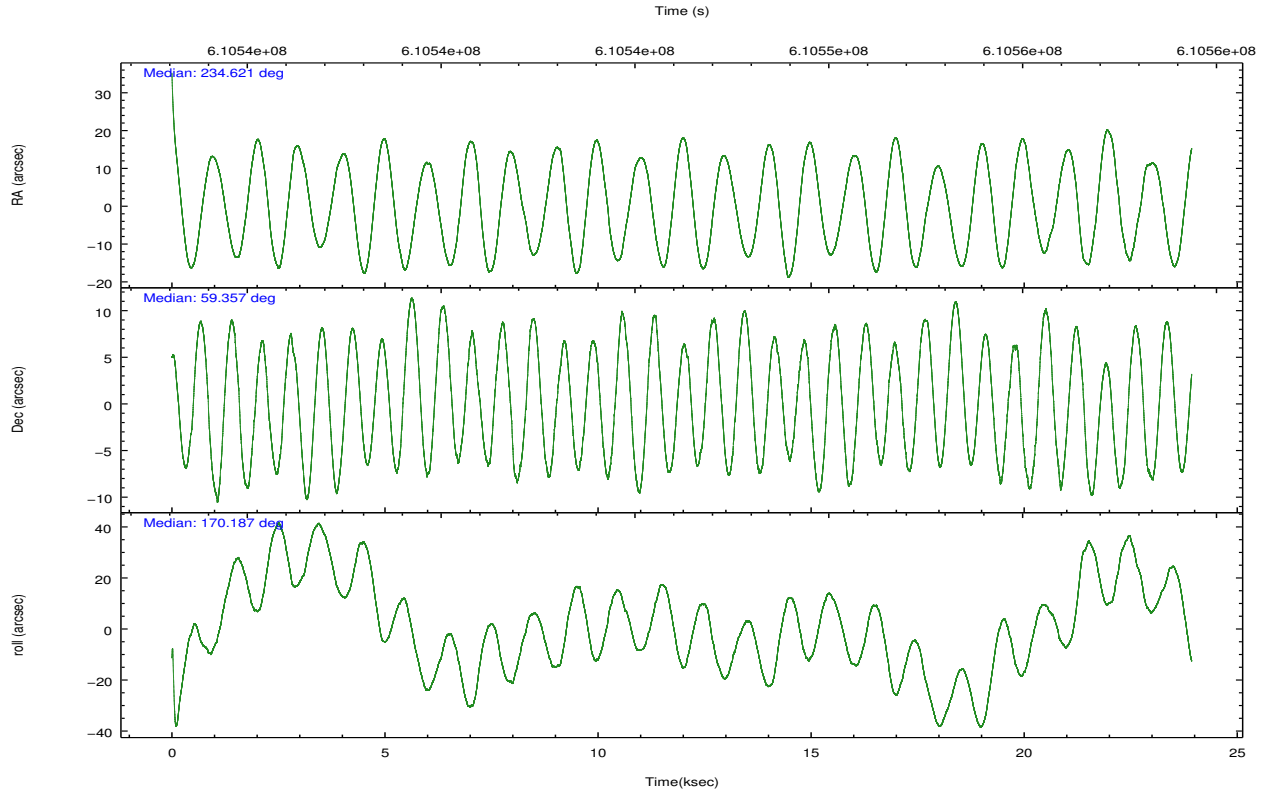
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5998	11585	6344	8543	16683
	3%	4%	3%	4%	7%
grade 1 events	83	669	88	303	150
	0%	0%	0%	0%	0%
grade 2 events	3826	38333	4370	19581	14572
	2%	14%	2%	9%	6%
grade 3 events	1803	4432	1903	7591	6270
	1%	1%	1%	3%	2%
grade 4 events	1803	4506	1820	7771	5776
	1%	1%	1%	3%	2%
grade 5 events	7482	18749	7658	20573	11481
	4%	7%	4%	9%	5%
grade 6 events	3518	67105	4505	48717	16068
	2%	26%	2%	23%	7%
grade 7 events	132276	110544	140199	92949	144491
	84%	43%	84%	45%	67%

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	234.670894	234.6205920736956	CCD I2 on	N	N
[deg] Pointing Dec	59.367261	59.35742924242944	CCD I3 on	O1	Y
[deg] Pointing Roll	169.995641	170.1955961311659	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	610535157.184000	610533385.10901	CCD S5 on	N	N
Observation start date	2017-05-07T09:04:48	2017-05-07T08:36:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	610558157.184000	610558768.21048	On-chip summing requested	N	N
Observation end date	2017-05-07T15:28:08	2017-05-07T15:39:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



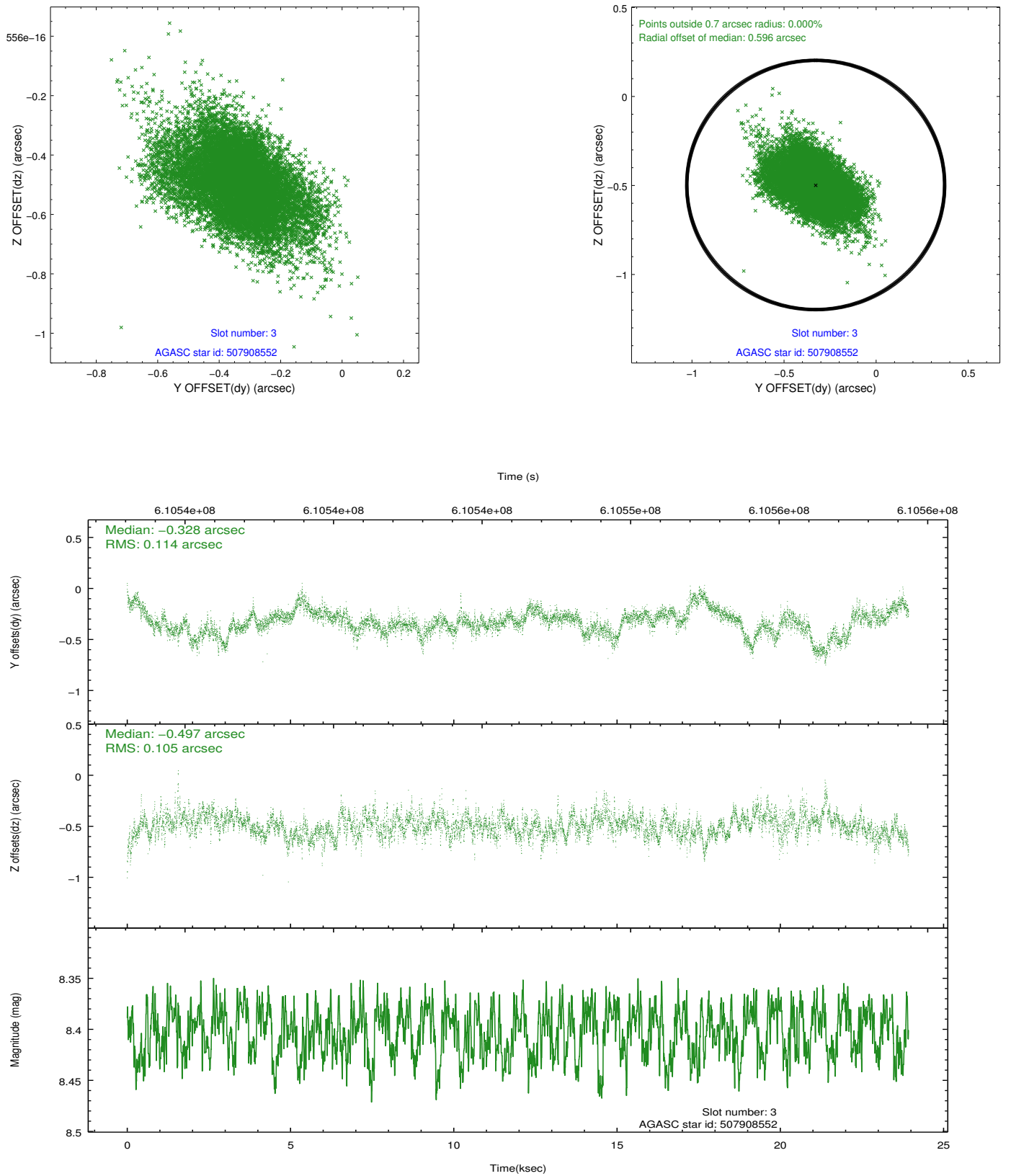


Slot Statistics

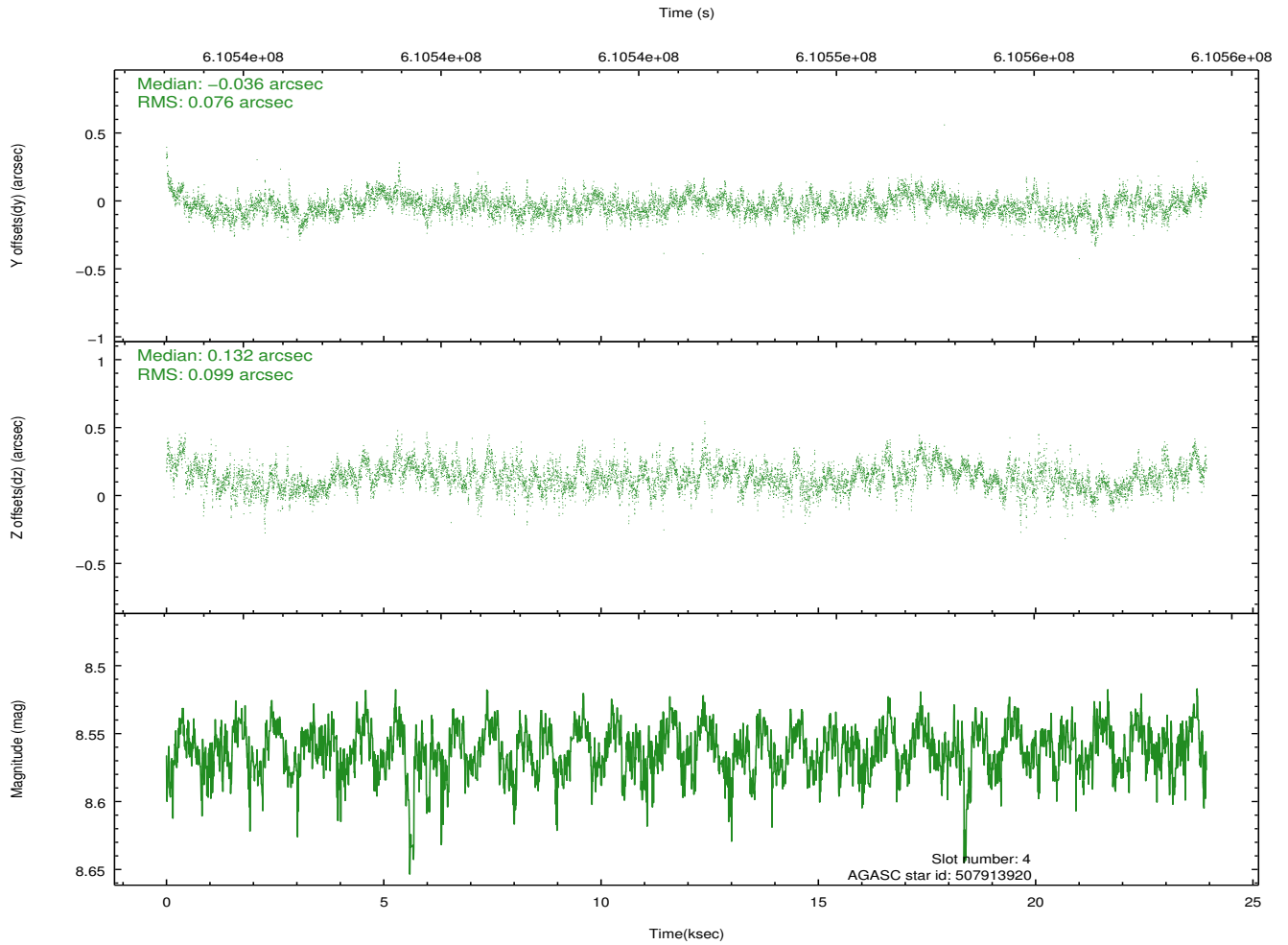
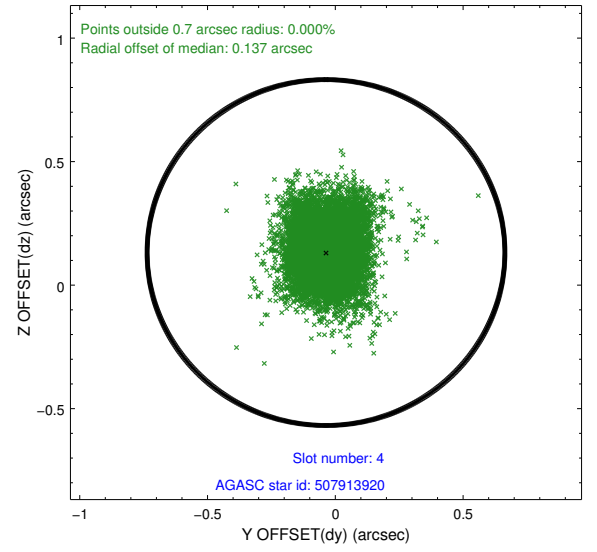
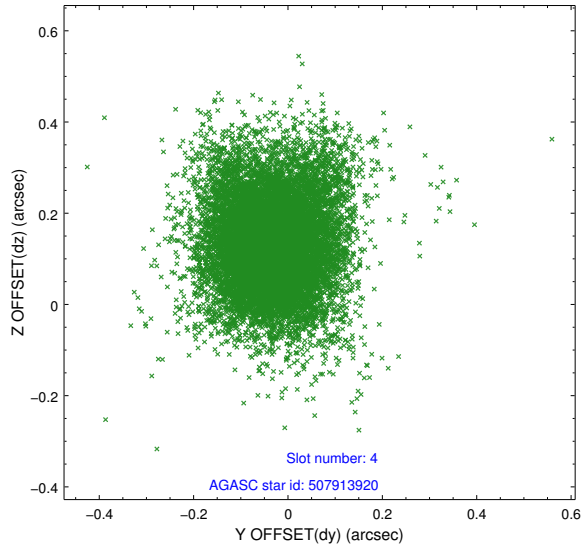
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	5837	-0.170	-0.099	0.020	0.040	0.000000	0.000000	-767.16	-1740.39
1	FID		ACIS-S-4	7.10	5837	0.457	0.110	0.020	0.028	0.000000	0.000000	2146.67	168.19
2	FID		ACIS-S-5	7.09	5837	-0.317	0.001	0.011	0.037	0.000000	0.000000	-1819.99	161.86
3	GUIDE	used	507908552	8.40	11671	-0.328	-0.497	0.158	0.283	233.880841	59.097342	1271.34	1202.07
4	GUIDE	used	507913920	8.56	11666	-0.036	0.132	0.128	0.224	235.306966	59.347772	-1160.38	-138.63
5	GUIDE	used	548024472	8.14	11667	0.205	-0.007	0.158	0.264	233.833506	60.086985	1930.01	-2297.08
6	GUIDE	used	508038464	9.24	11659	0.281	0.175	0.202	0.343	235.886564	59.716346	-1950.10	-1639.94
7	GUIDE	used	548146112	8.59	11661	-0.103	0.199	0.134	0.229	234.692236	60.011012	365.50	-2288.63

2.4 Star Slots

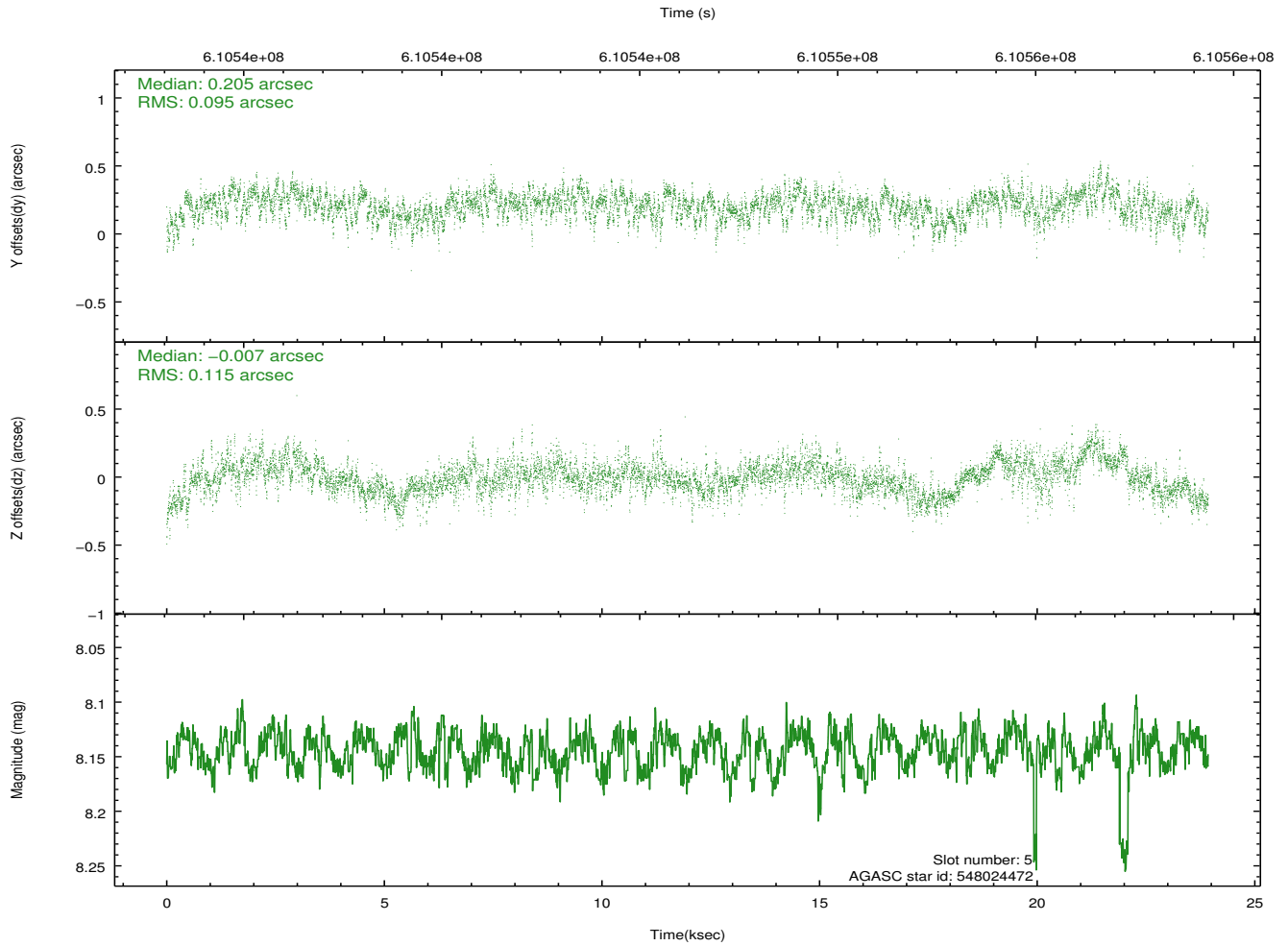
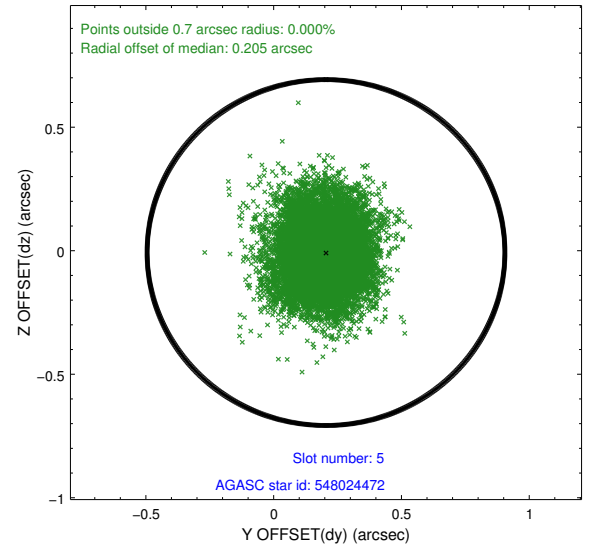
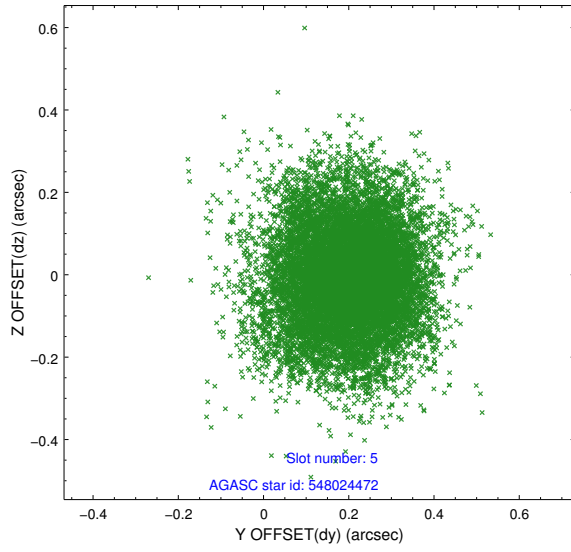
2.4.1 Slot 3



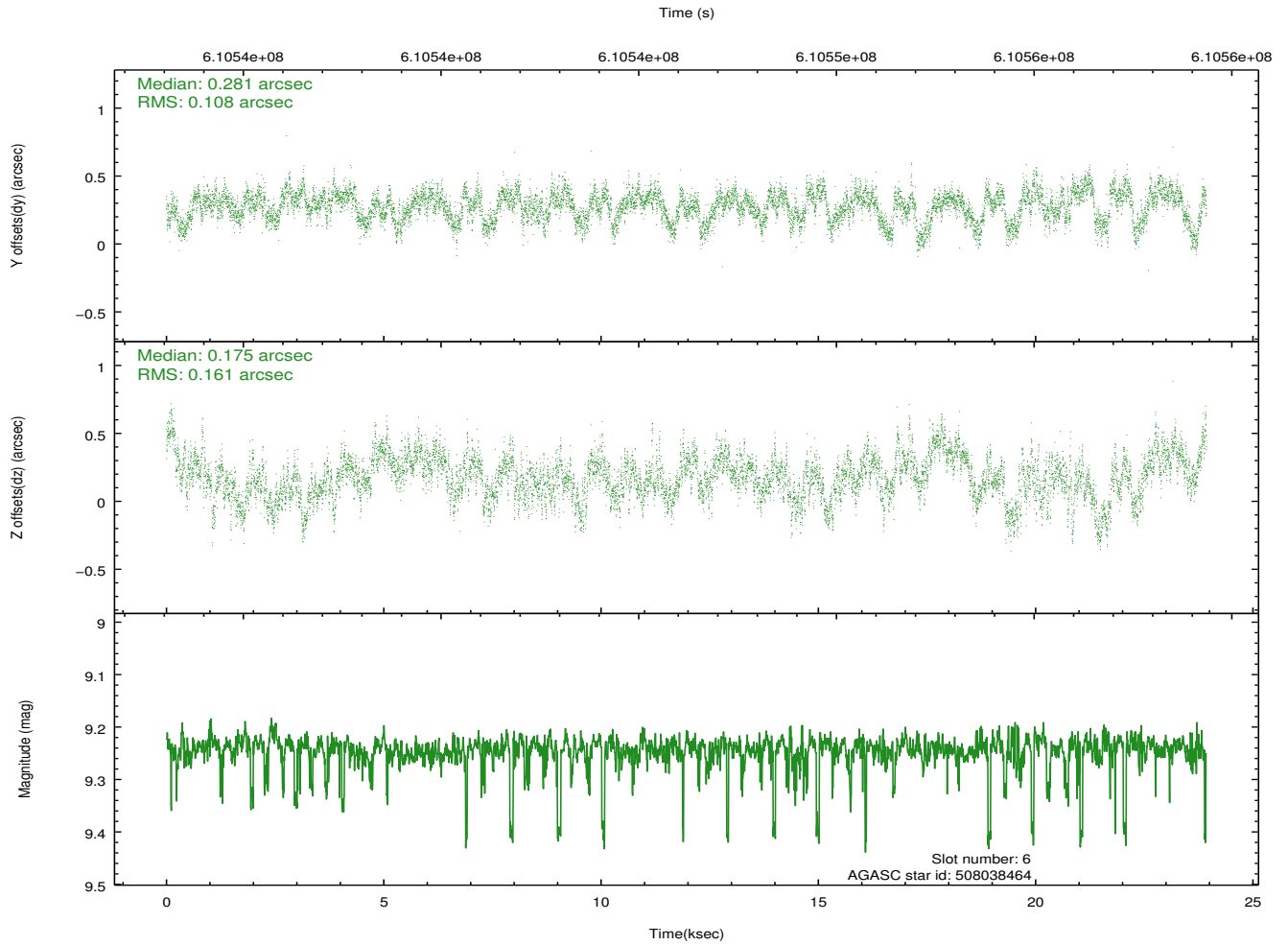
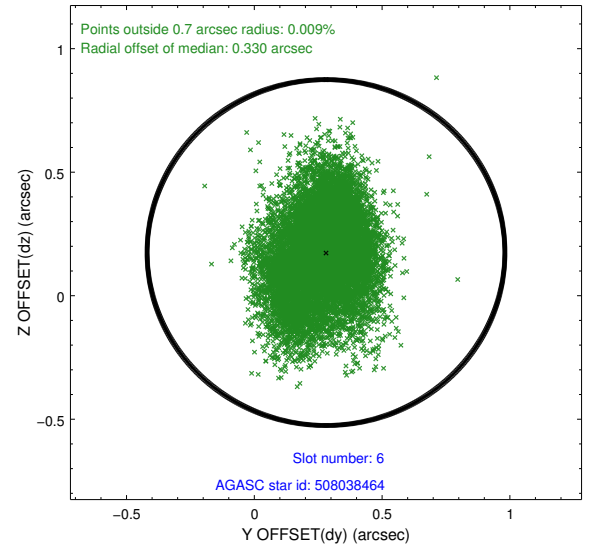
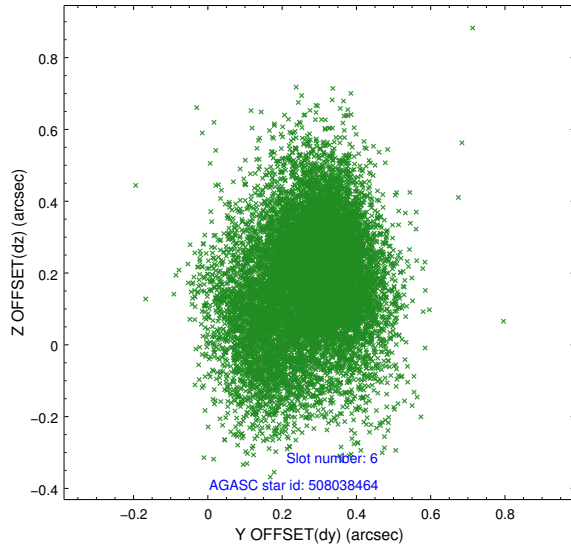
2.4.2 Slot 4



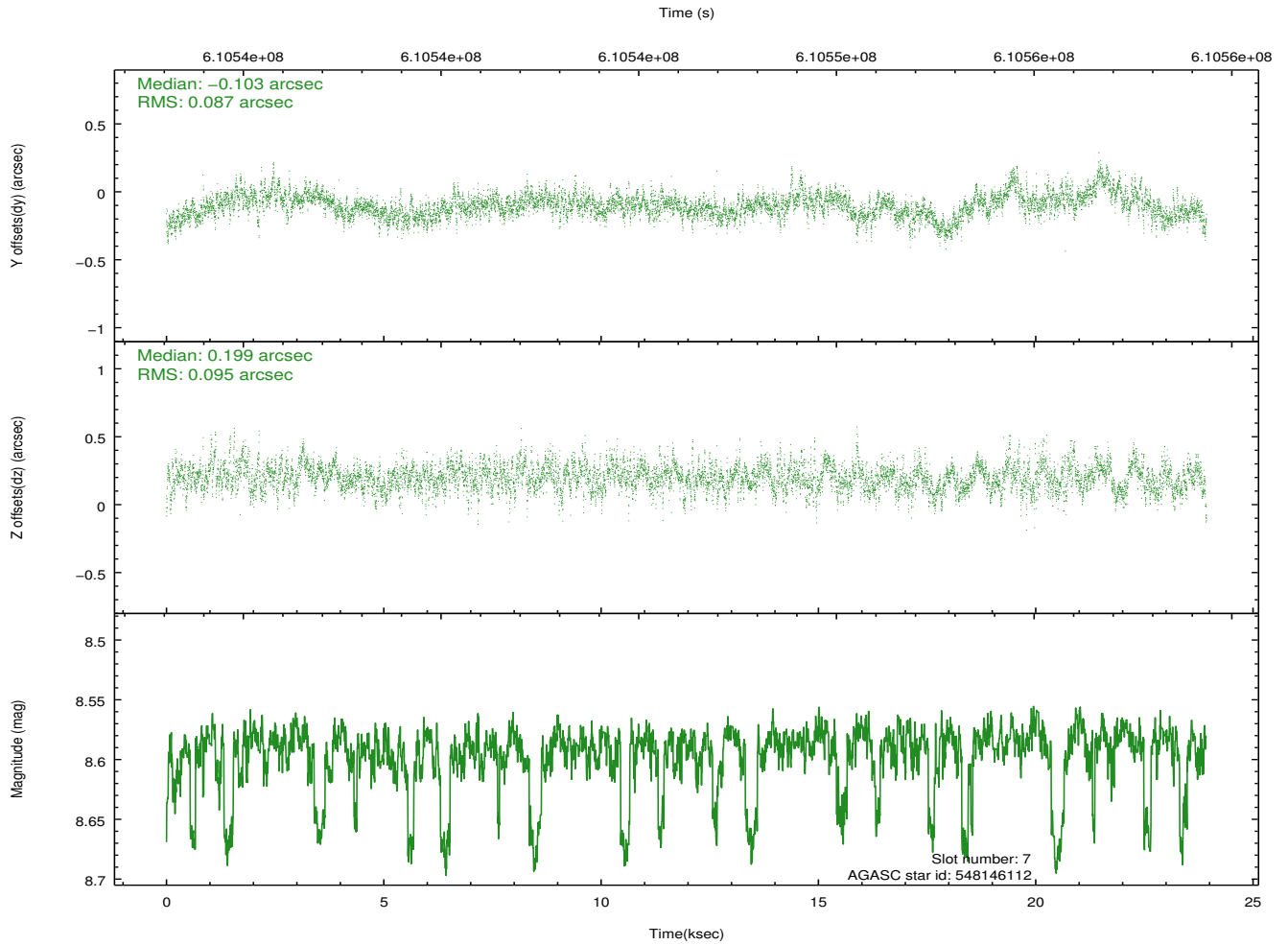
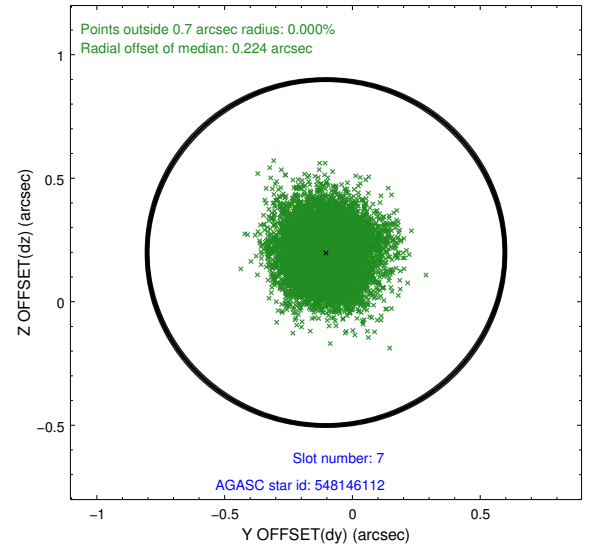
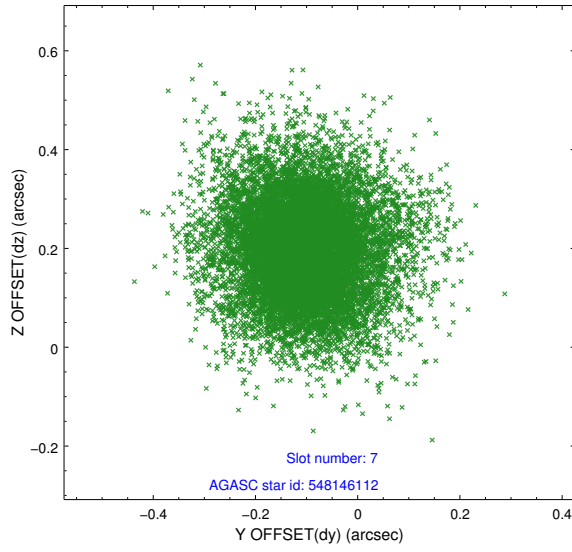
2.4.3 Slot 5



2.4.4 Slot 6

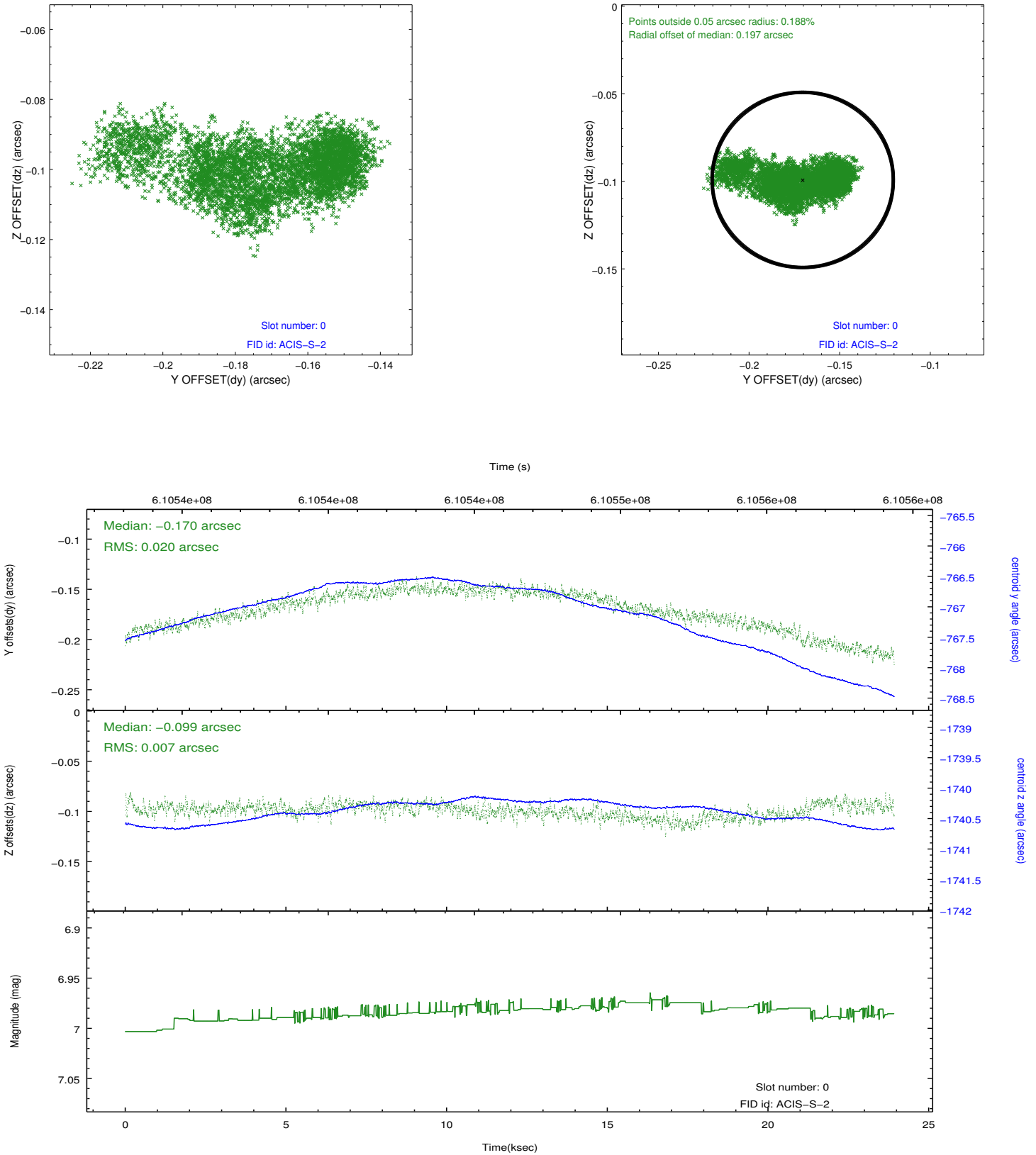


2.4.5 Slot 7

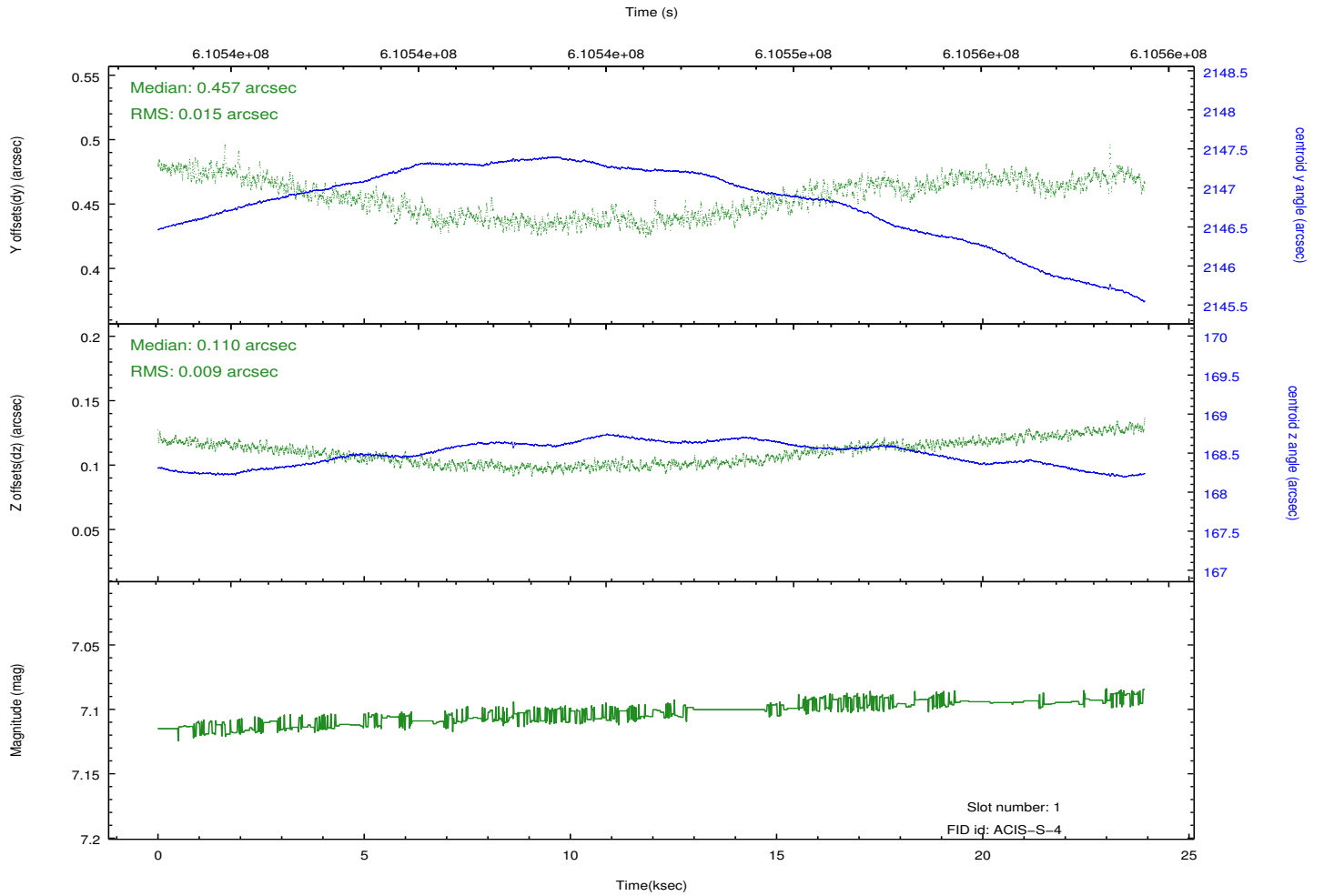
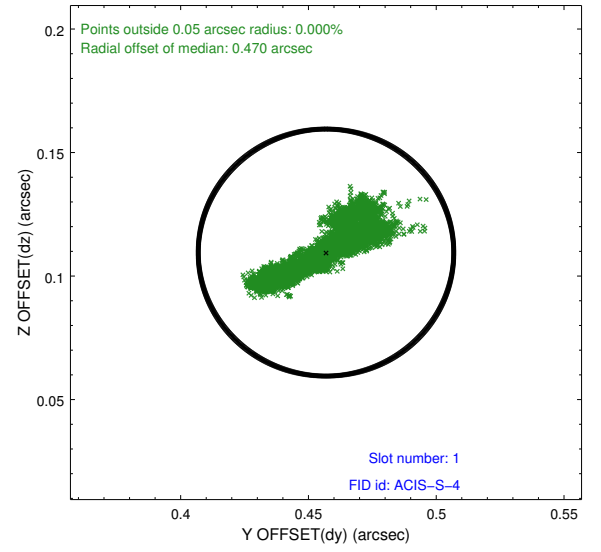
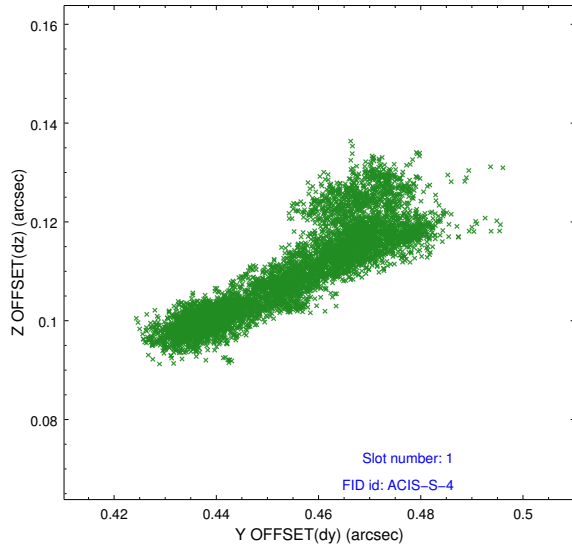


2.5 FID Slots

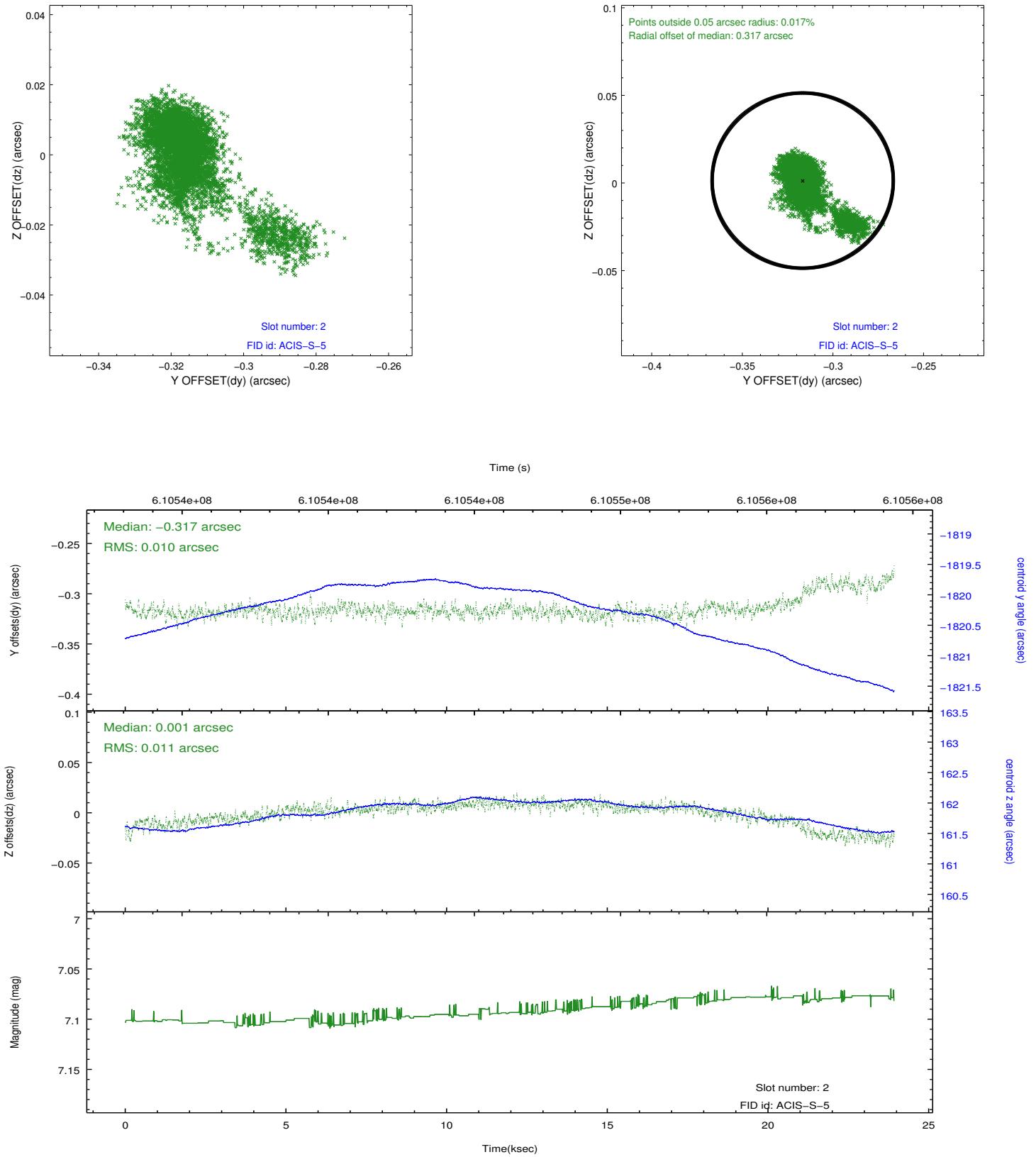
2.5.1 Slot 0



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)	2017.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.048500177383

A.2 Comments