

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17245 - L2 Version 1
Chandra X-Ray Center

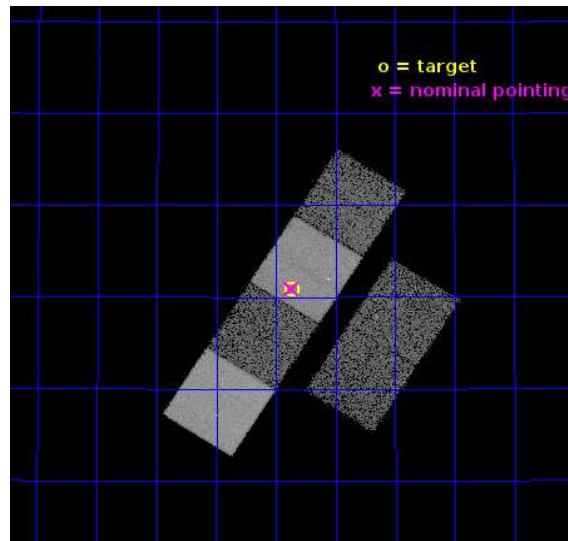
L2 Processing Date : Nov 27 2015

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1 Front

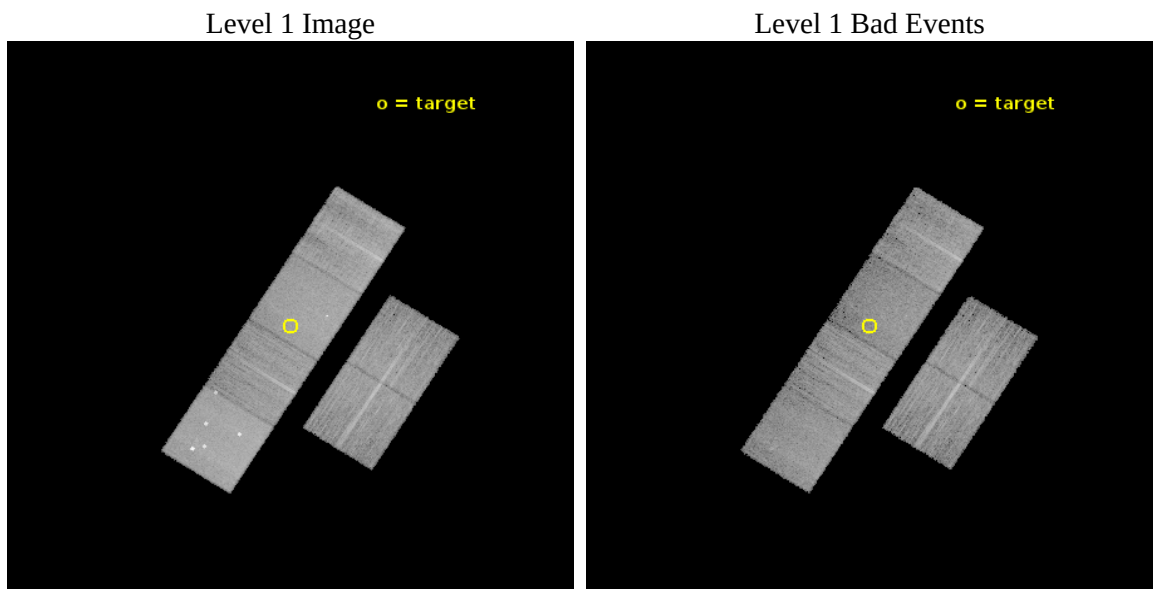
seq_num	901141	Sequence number
obs_id	17245	Observation id
title	Follow-up of Serendipitous NuSTAR Sources in the Galactic Plane	Pr
observer	Dr. John Tomsick	Principal investigator
object	3XMM J202421.7+335050	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	306.090417	Observer's specified target RA [deg]
dec_targ	33.8475	Observer's specified target Dec [deg]
ra_nom	306.09261587411	Nominal RA [deg]
dec_nom	33.848703709308	Nominal Dec [deg]
roll_nom	302.40682593942	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13945.600207806	Sum of GTIs [s]
livetime	13769.012620942	Livetime [s]
ontime2	13945.600207806	Sum of GTIs [s]
ontime3	13945.600207806	Sum of GTIs [s]
ontime5	13945.600207806	Sum of GTIs [s]
ontime6	13945.600207806	Sum of GTIs [s]
ontime7	13945.600207806	Sum of GTIs [s]
ontime8	13945.584615111	Sum of GTIs [s]
l2events	134217	Number of level 2 events



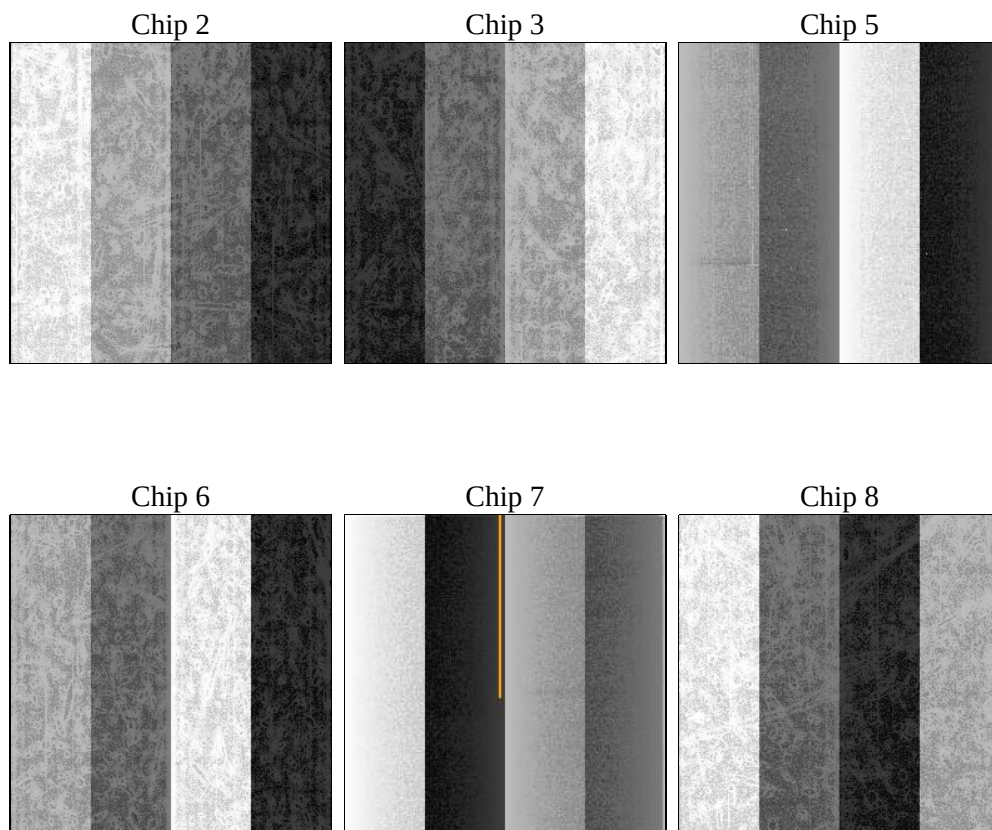
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	13945.600207806	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime2	13945.600207806	Sum of GTIs [s]
date	2015-11-27T13:43:44	Date and time of file creation	ontime3	13945.600207806	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	13945.600207806	Sum of GTIs [s]
			ontime6	13945.600207806	Sum of GTIs [s]
			ontime7	13945.600207806	Sum of GTIs [s]
			ontime8	13945.584615111	Sum of GTIs [s]
			l1events	592874	Number of level 1 events

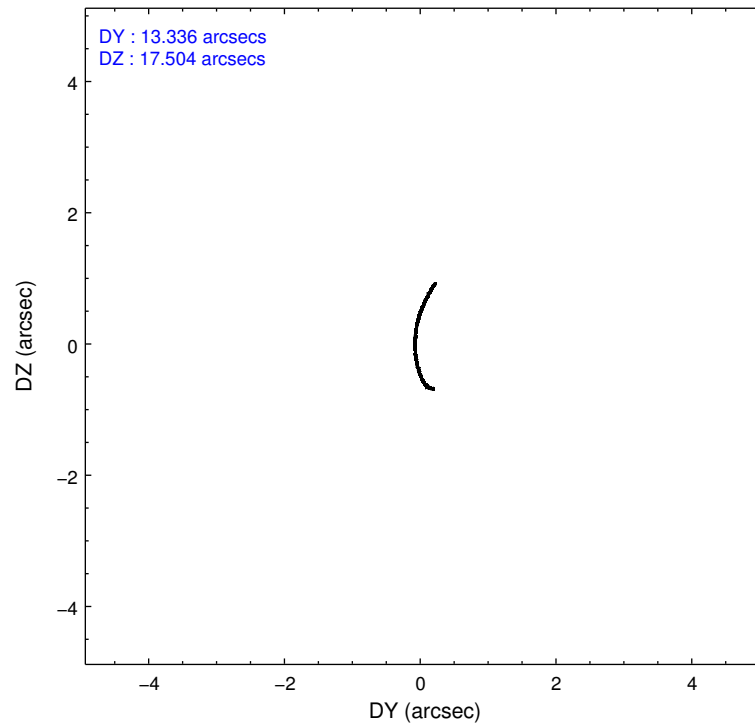
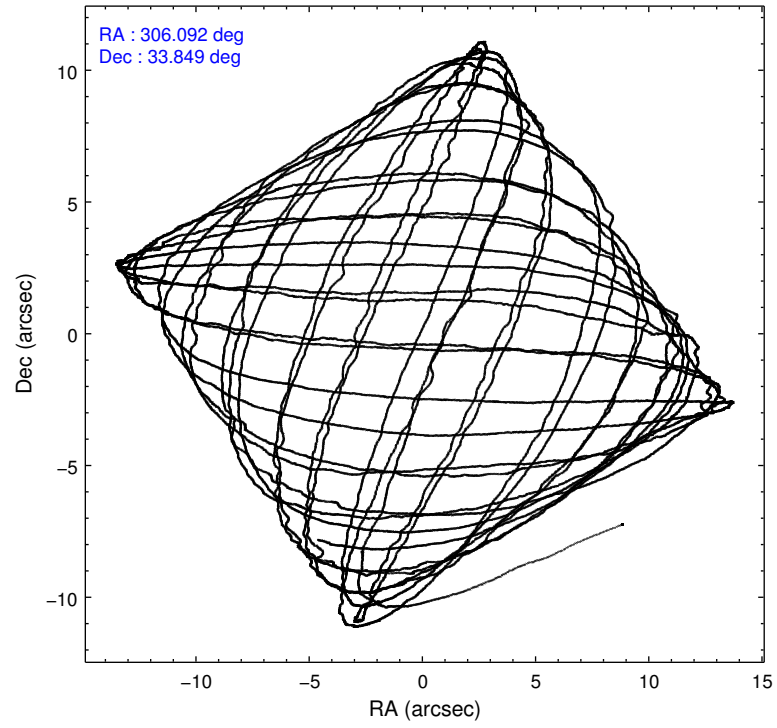
2.1.4 Events

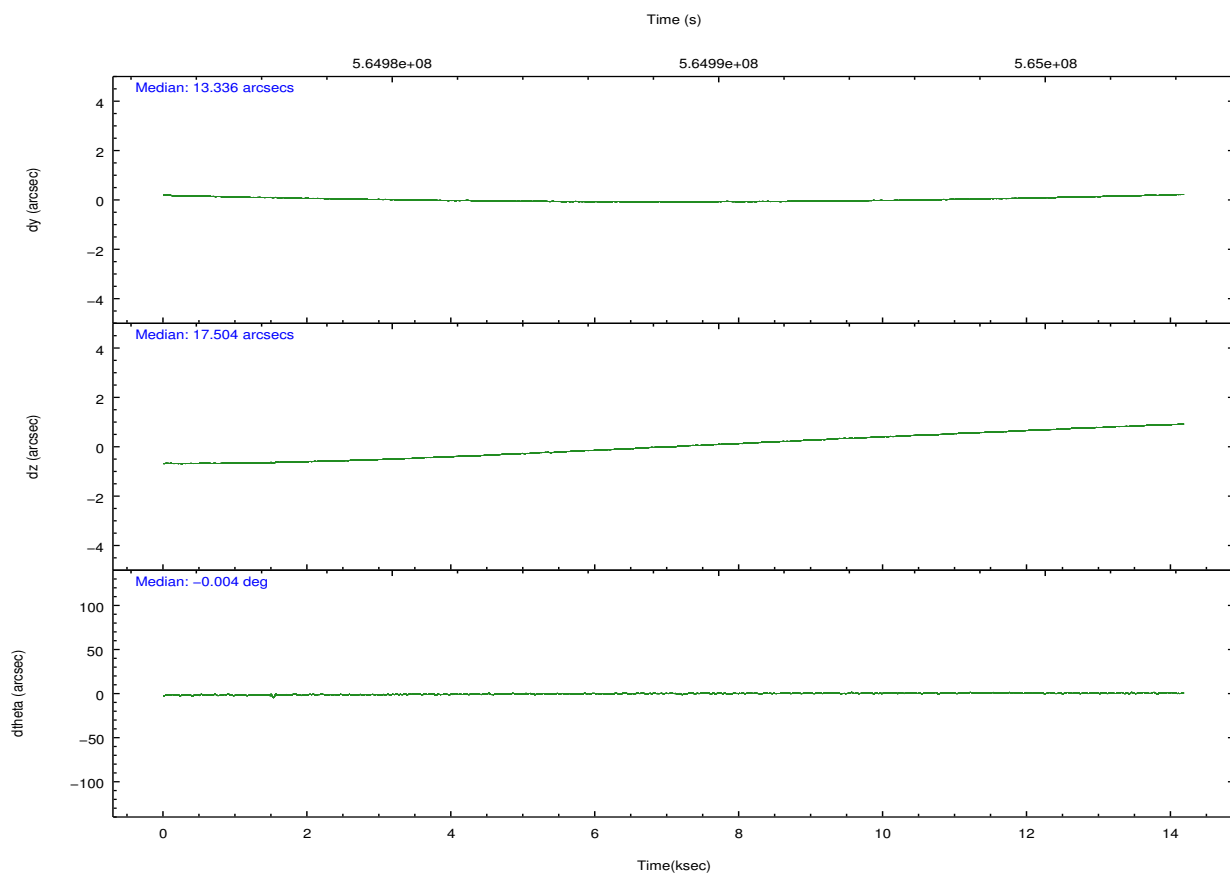
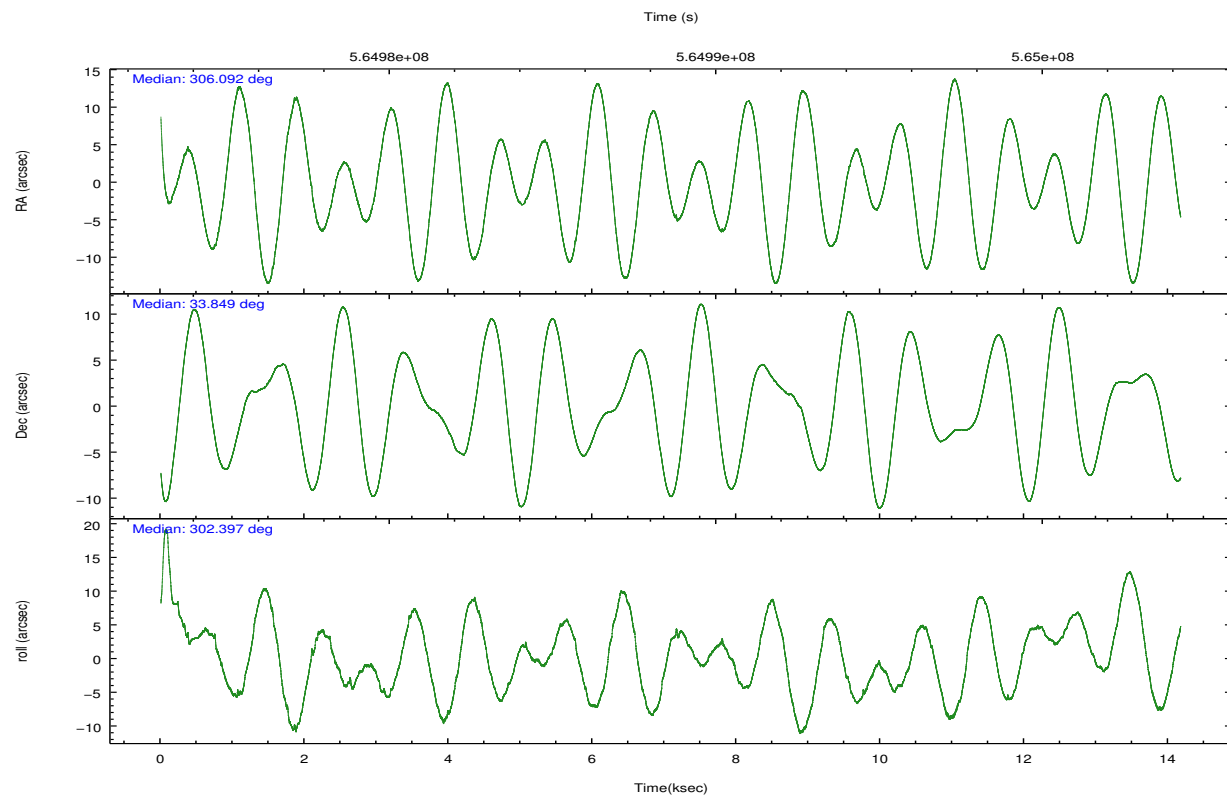
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	82574	80134	136418	83181	105874	104693	grade 0 events	2992	2891	11357	2943	3855	6992
rejected events	74148	71762	67211	73994	59902	78705		3%	3%	8%	3%	3%	6%
rejected %	89%	89%	49%	88%	56%	75%	grade 1 events	36	54	392	39	133	66
								0%	0%	0%	0%	0%	0%
							grade 2 events	2049	1822	20048	2278	9894	6526
								2%	2%	14%	2%	9%	6%
							grade 3 events	847	906	1827	820	3495	2685
								1%	1%	1%	0%	3%	2%
							grade 4 events	882	873	1864	841	3435	2507
								1%	1%	1%	1%	3%	2%
							grade 5 events	3207	3782	8588	3802	10074	5624
								3%	4%	6%	4%	9%	5%
							grade 6 events	1661	1881	34118	2307	25307	7288
								2%	2%	25%	2%	23%	6%
							grade 7 events	70900	67925	58224	70151	49681	73005
								85%	84%	42%	84%	46%	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	306.063090	306.0926158741057	CCD I2 on	O2	Y
[deg] Pointing Dec	33.861101	33.84870370930775	CCD I3 on	Y	Y
[deg] Pointing Roll	302.266654	302.4068259394216	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	564982392.184000	564981326.80659	CCD S5 on	N	N
Observation start date	2015-11-27T03:32:04	2015-11-27T03:15:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	564996392.184000	564997185.09499	On-chip summing requested	N	N
Observation end date	2015-11-27T07:25:24	2015-11-27T07:39:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



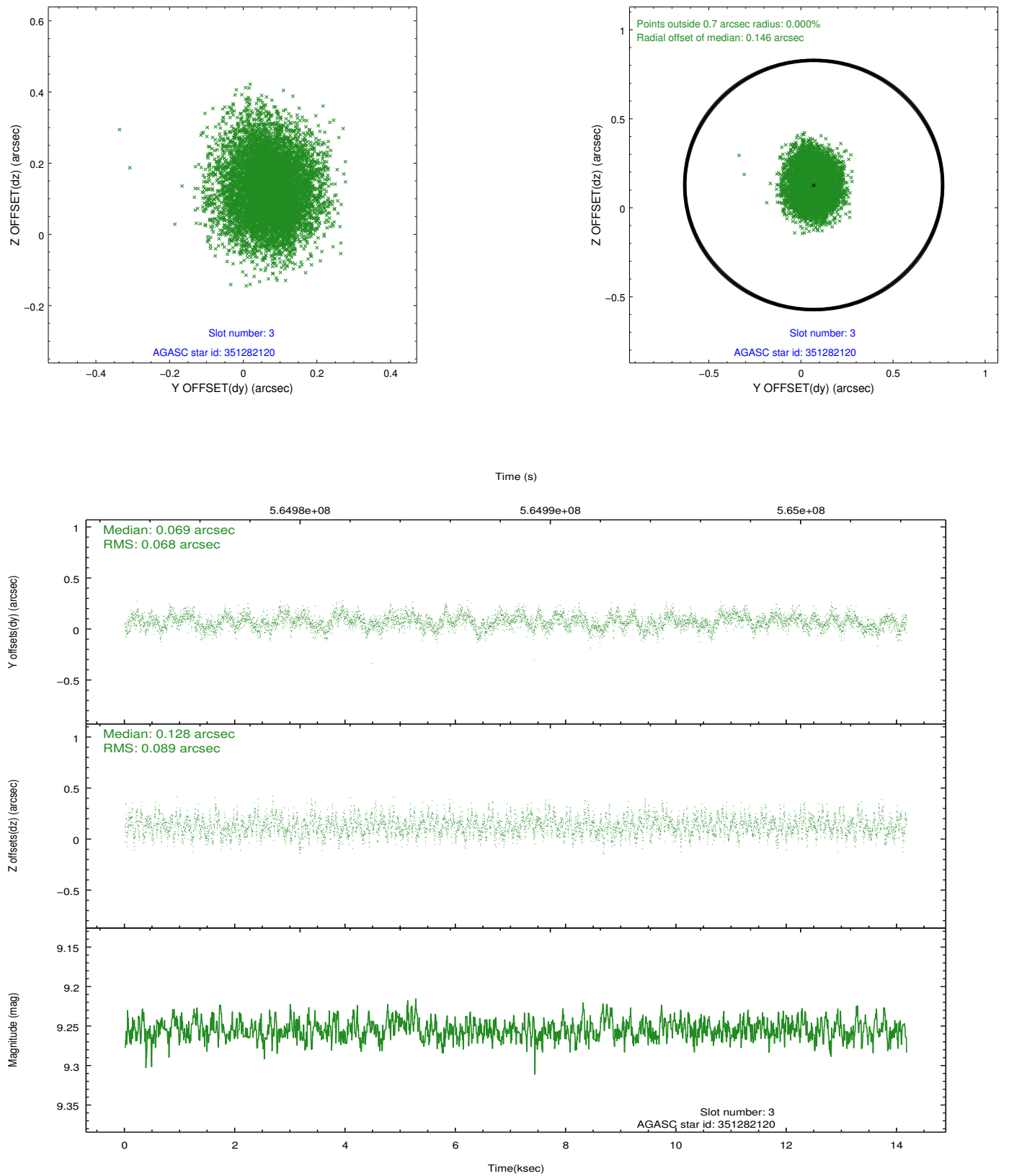


Slot Statistics

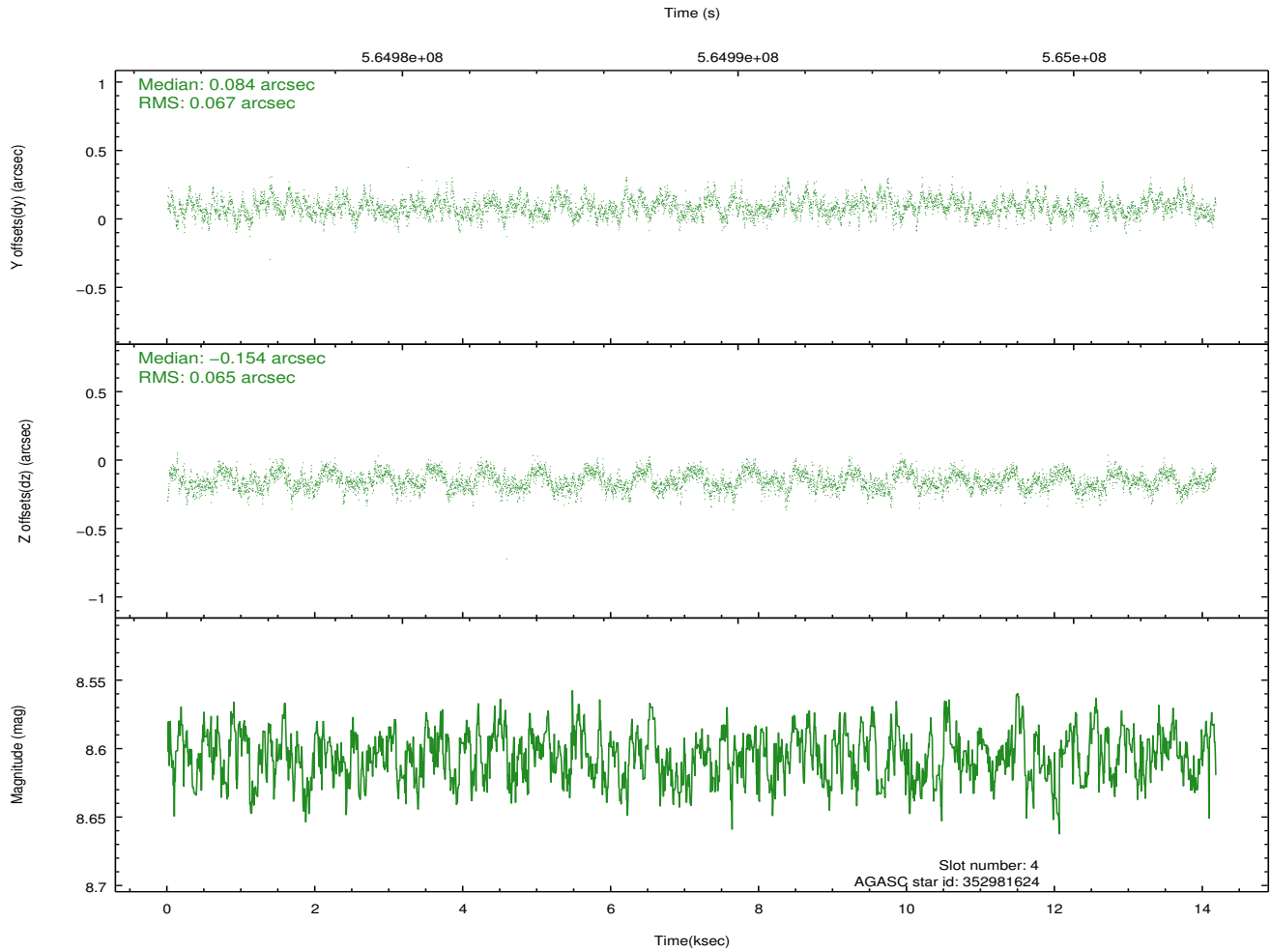
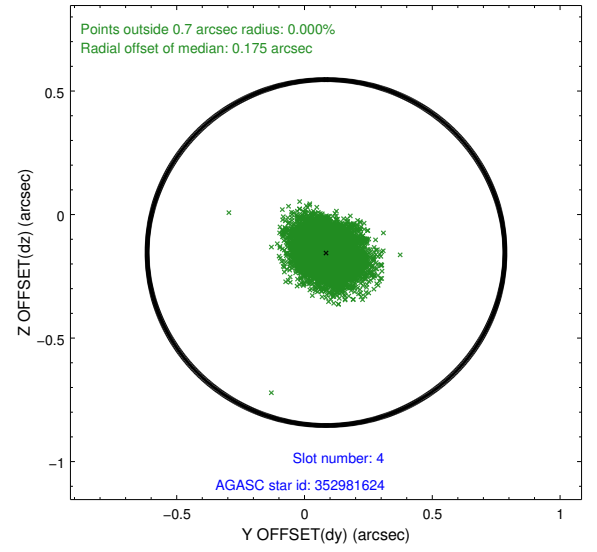
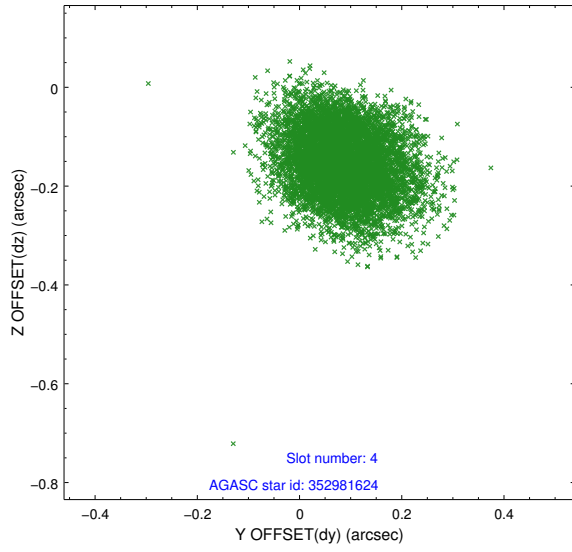
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	3457	-0.113	-0.118	0.018	0.027	0.000000	0.000000	-766.40	-1739.05
1	FID		ACIS-S-4	7.24	3457	0.394	0.086	0.008	0.014	0.000000	0.000000	2147.24	169.30
2	FID		ACIS-S-5	7.26	3457	-0.312	0.042	0.013	0.024	0.000000	0.000000	-1819.01	163.30
3	GUIDE	used	351282120	9.26	6911	0.069	0.128	0.120	0.190	305.232648	33.763598	-1036.22	-2284.62
4	GUIDE	used	352981624	8.60	6912	0.084	-0.154	0.098	0.159	306.081516	34.222239	-1070.07	740.17
5	GUIDE	used	352985512	8.88	6909	-0.009	-0.121	0.094	0.149	306.411799	34.272698	-700.89	1669.42
6	GUIDE	used	351285720	8.59	6908	-0.077	0.137	0.095	0.149	305.127244	33.817841	-1372.63	-2442.27
7	GUIDE	used	352989216	9.03	6906	-0.076	0.009	0.103	0.174	306.255346	34.661812	-2134.20	2020.35

2.4 Star Slots

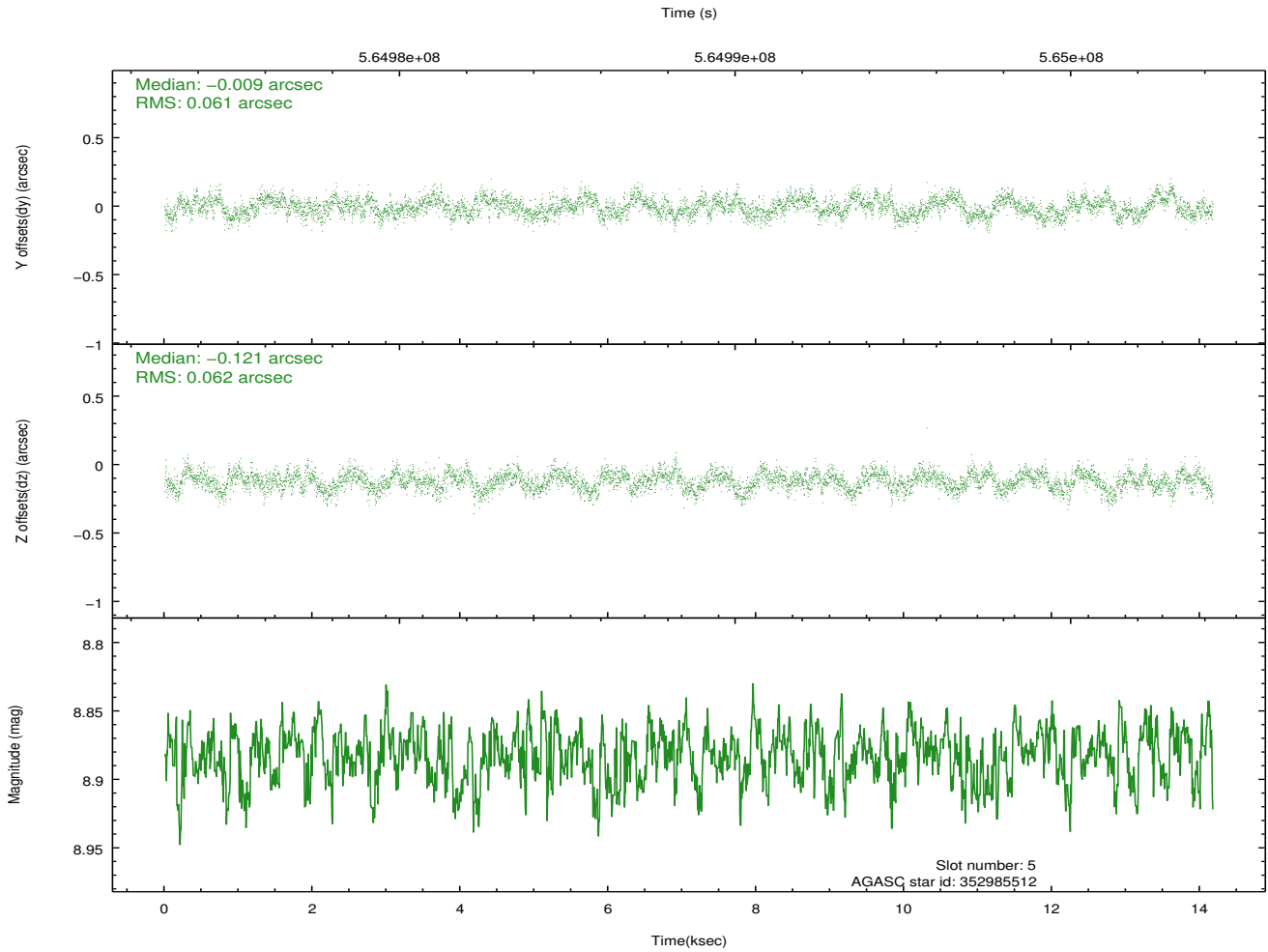
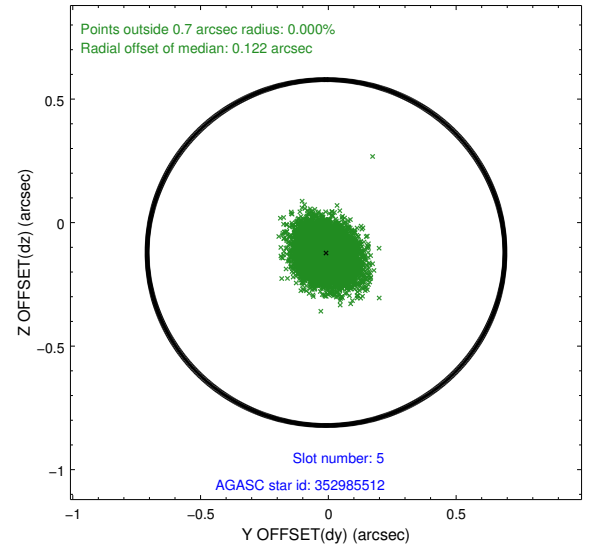
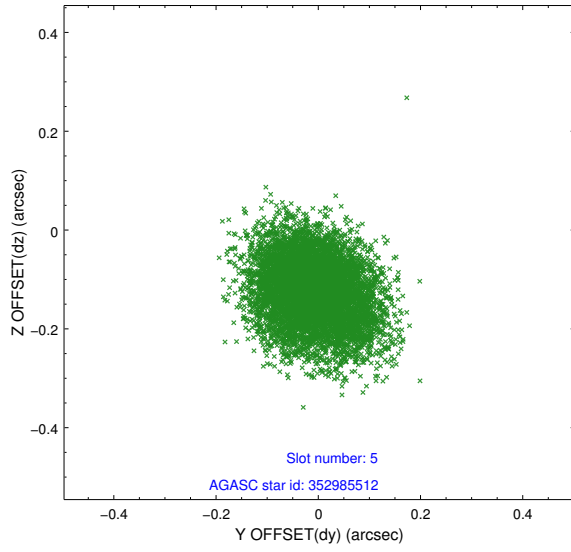
2.4.1 Slot 3



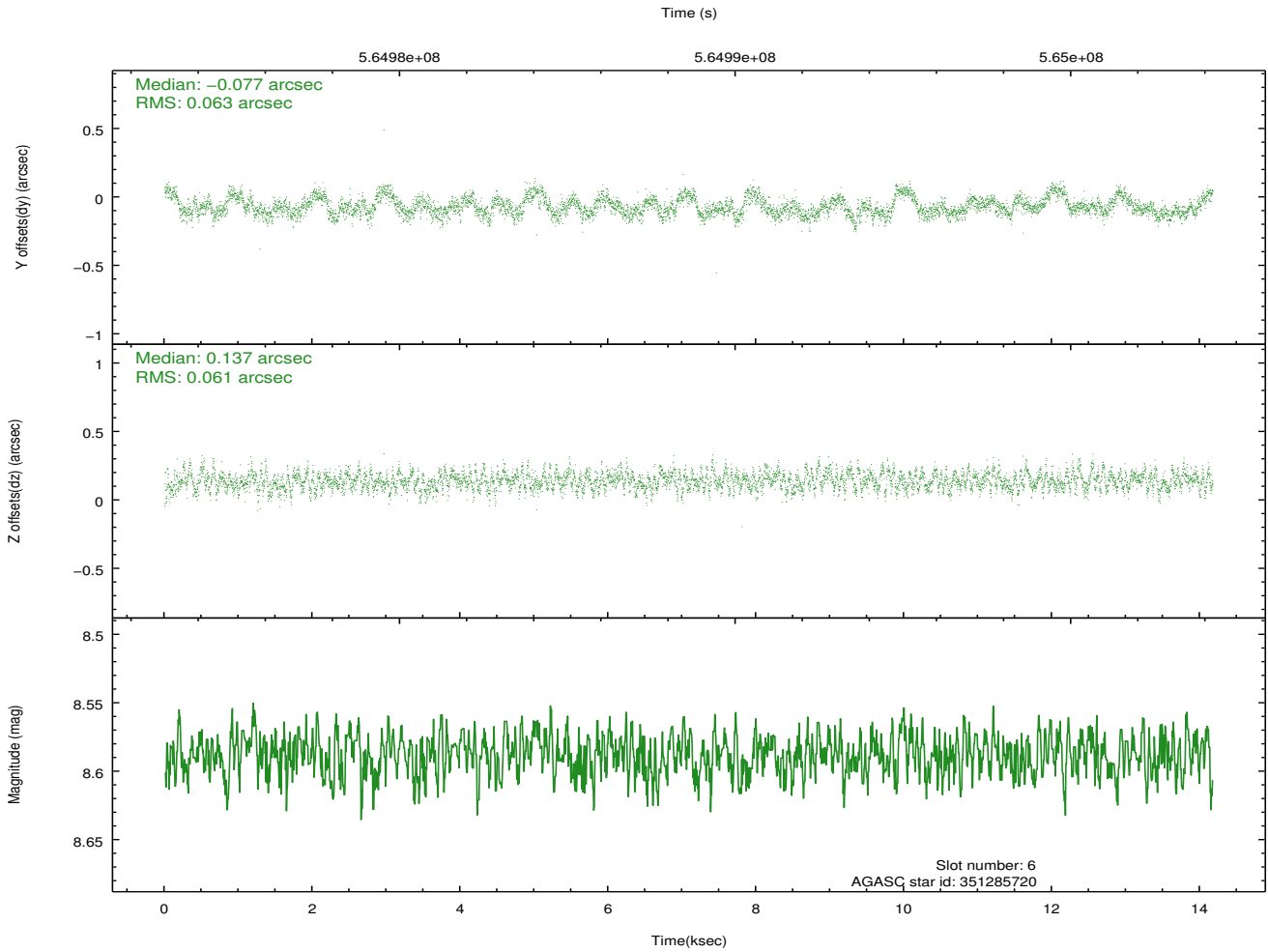
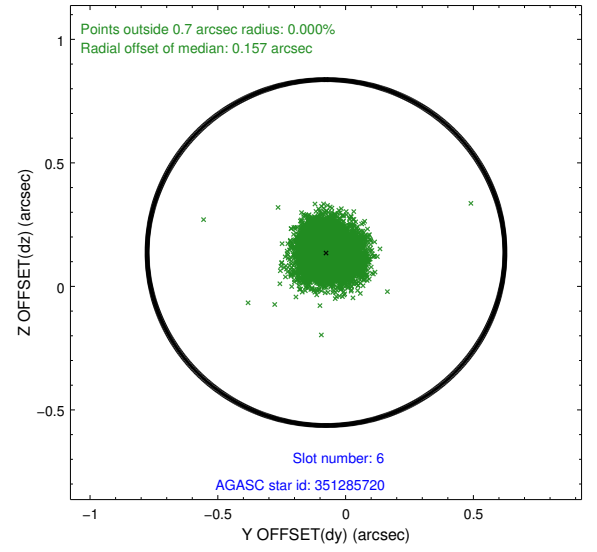
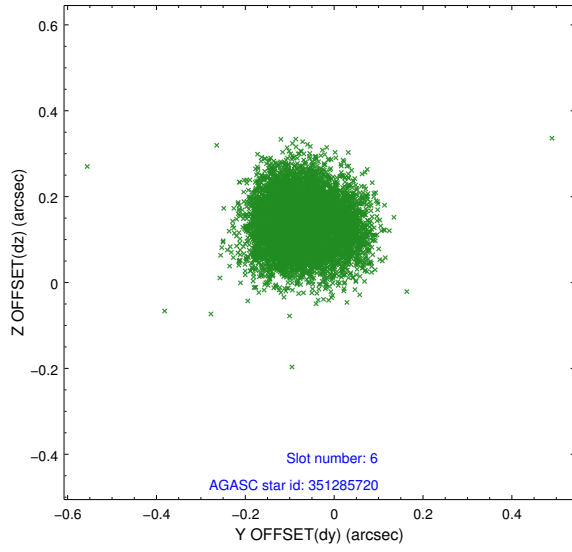
2.4.2 Slot 4



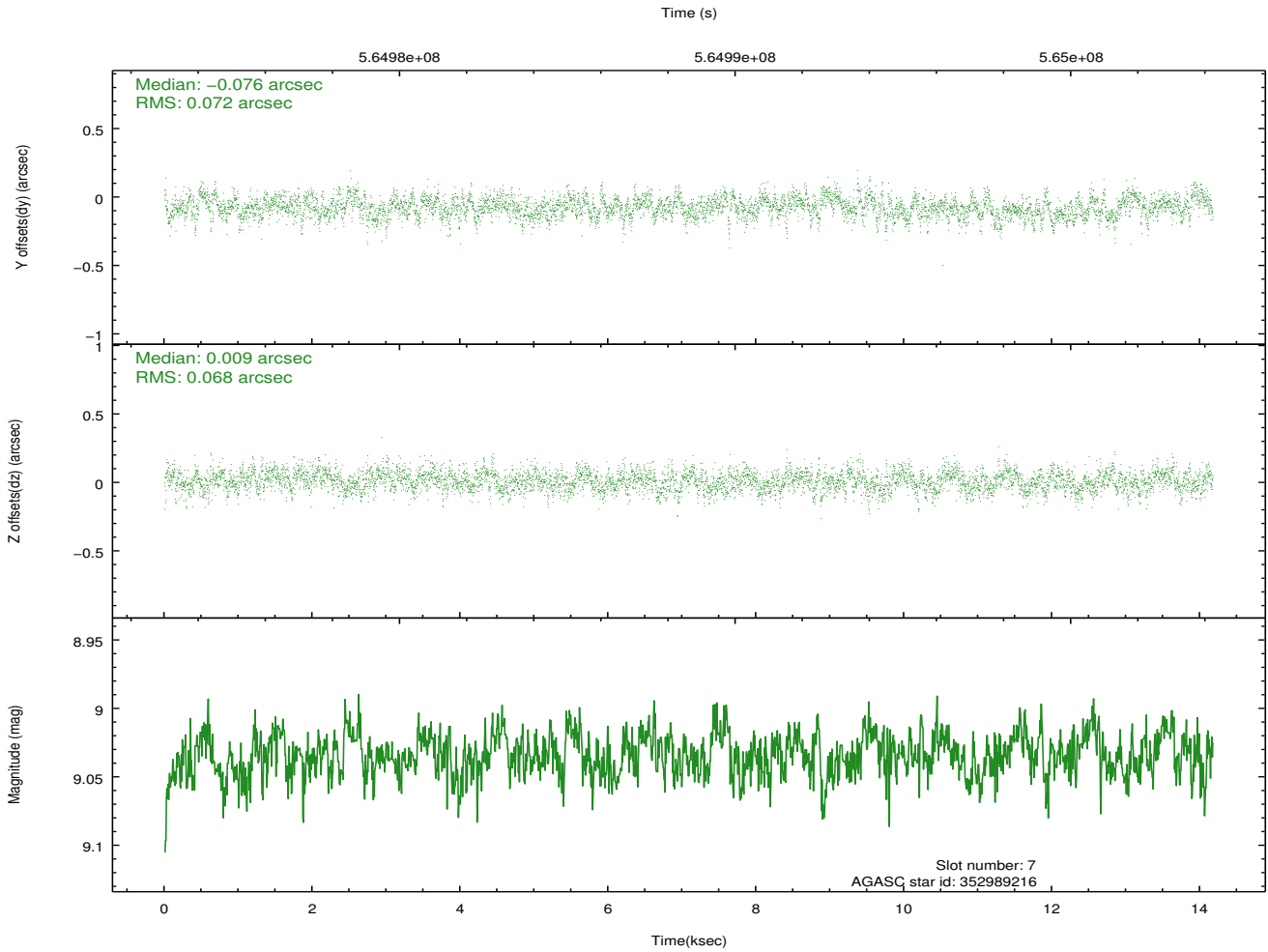
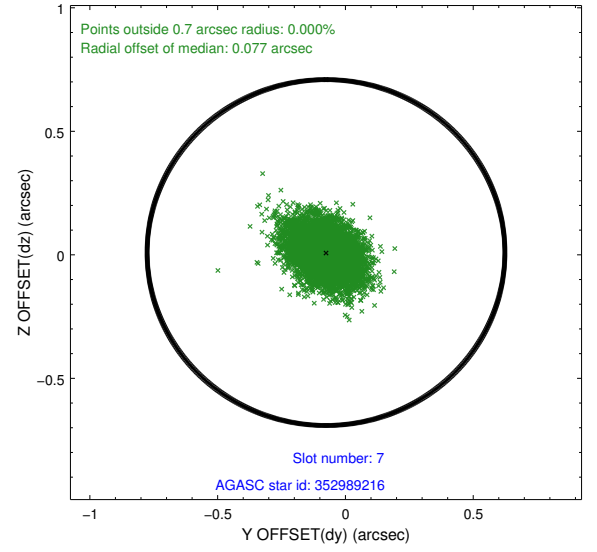
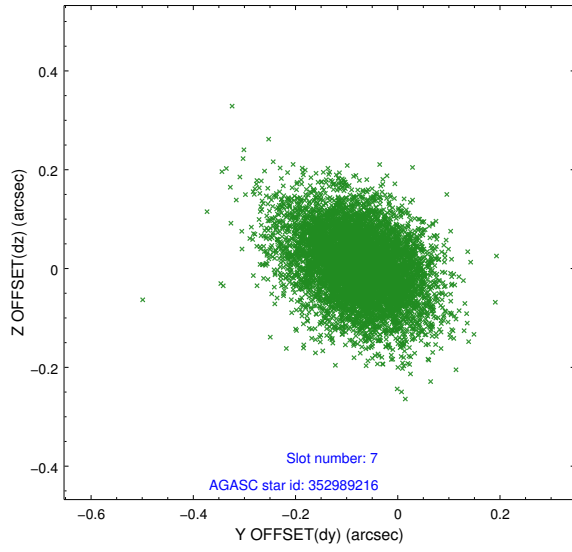
2.4.3 Slot 5



2.4.4 Slot 6

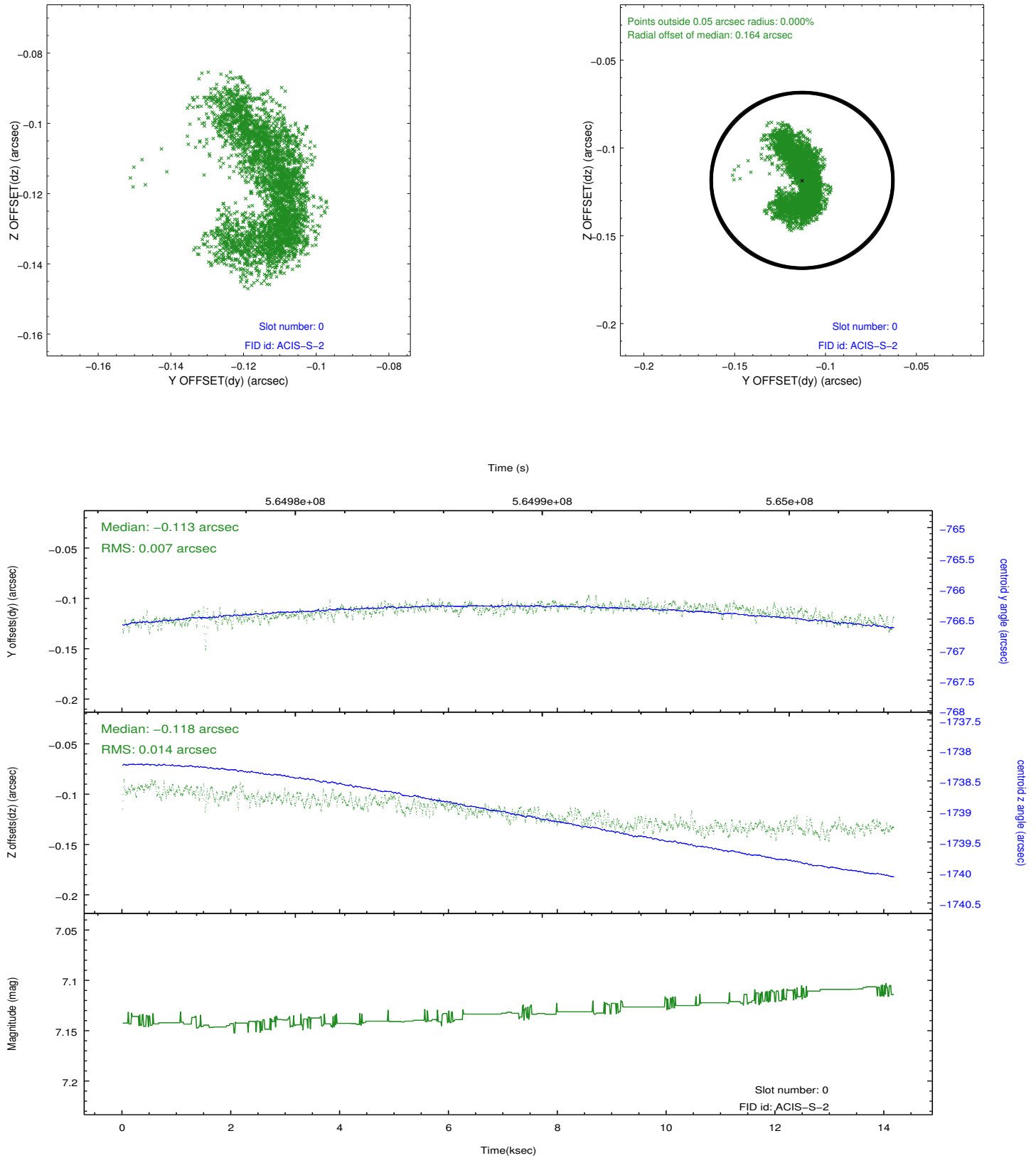


2.4.5 Slot 7

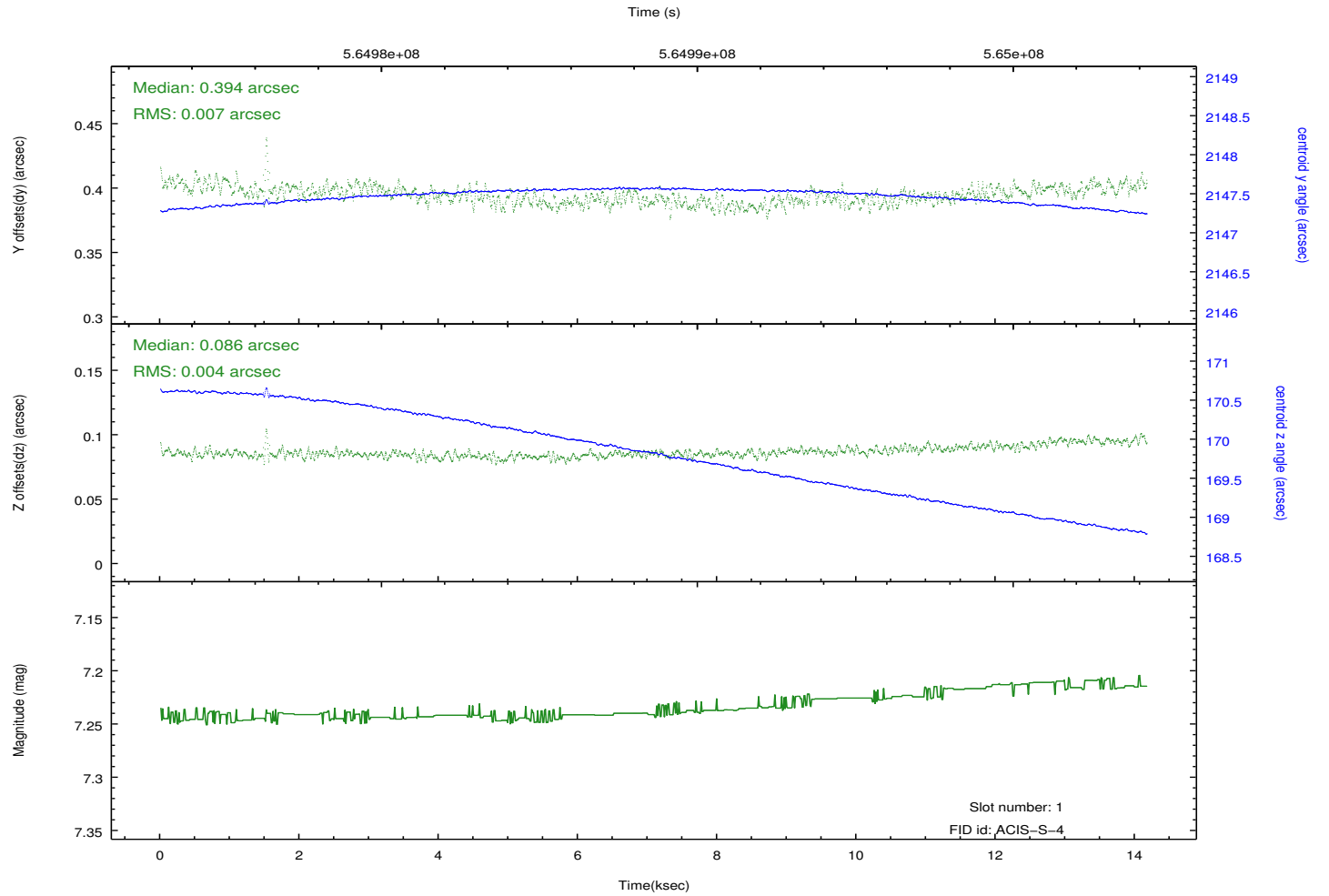
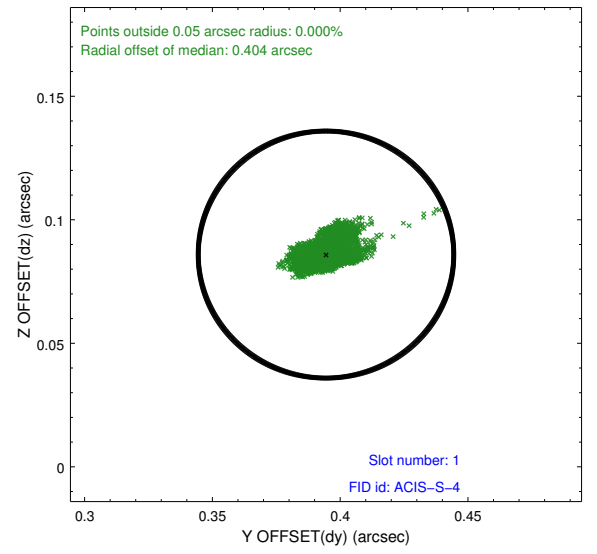
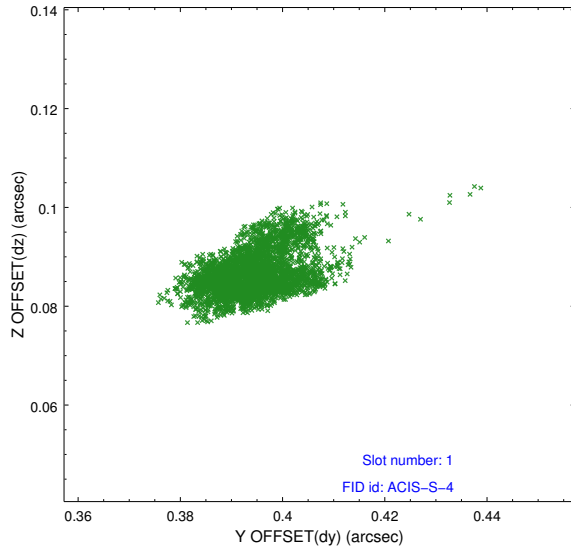


2.5 FID Slots

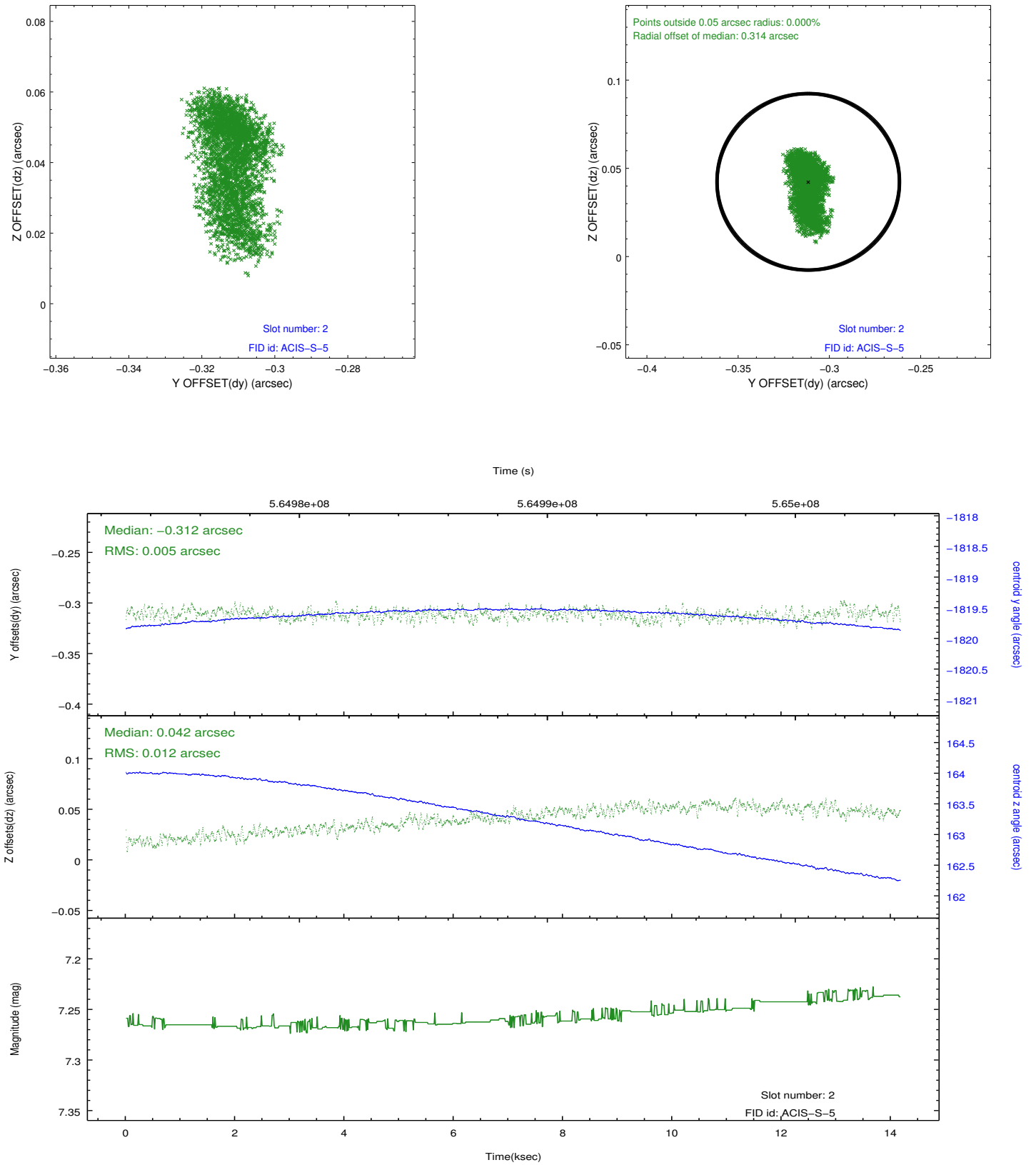
2.5.1 Slot 0



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)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.945600207806

A.2 Comments