

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18873 - L2 Version 1
Chandra X-Ray Center

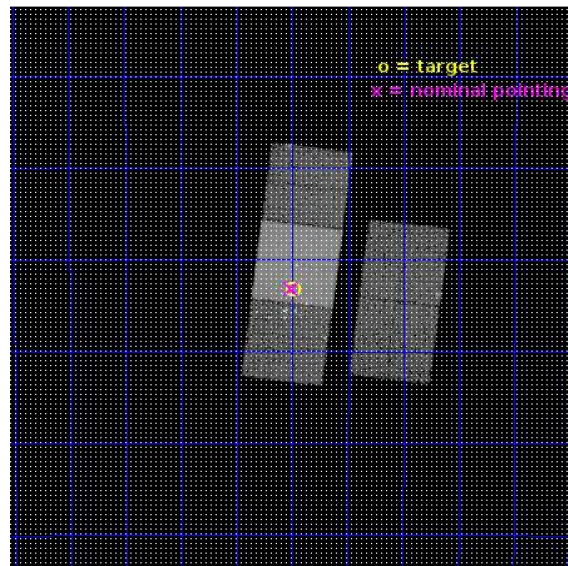
L2 Processing Date : Jul 12 2016

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1 Front

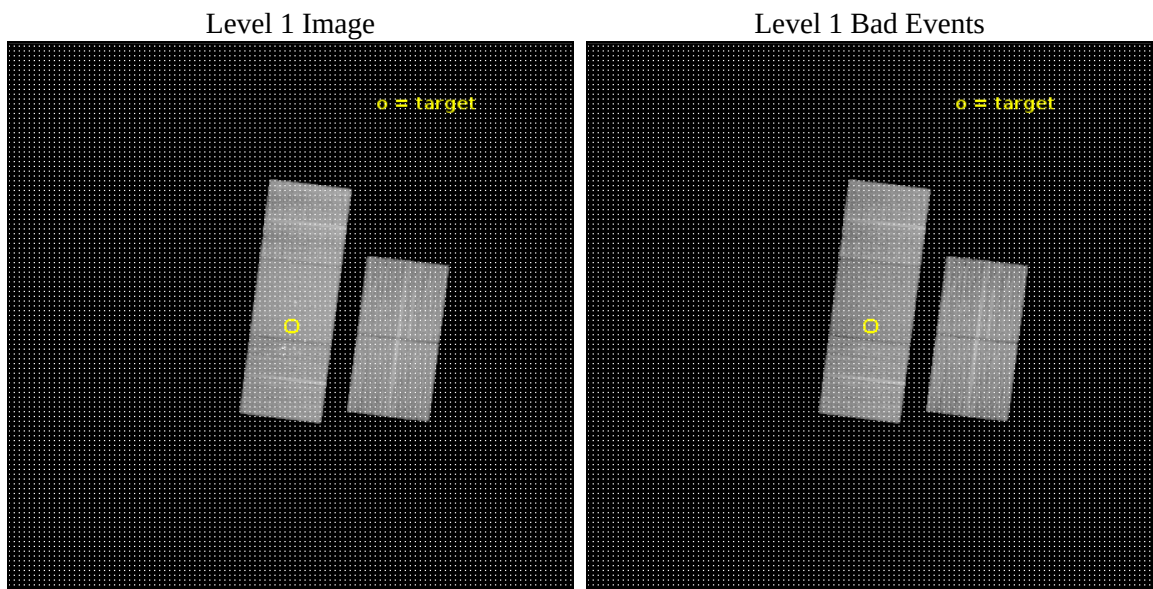
seq_num	201058	Sequence number
obs_id	18873	Observation id
title	X-rays reveal a new, hot jet component: The case of Sz 102	Proposa
observer	Christian Schneider	Principal investigator
object	Sz 102	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.12375	Observer's specified target RA [deg]
dec_targ	-39.053056	Observer's specified target Dec [deg]
ra_nom	242.12699370093	Nominal RA [deg]
dec_nom	-39.053096467697	Nominal Dec [deg]
roll_nom	277.15867698013	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27651.184003115	Sum of GTIs [s]
livetime	27289.900927608	Livetime [s]
ontime2	27647.878782868	Sum of GTIs [s]
ontime3	27647.960872769	Sum of GTIs [s]
ontime6	27651.142963171	Sum of GTIs [s]
ontime7	27651.184003115	Sum of GTIs [s]
ontime8	27641.637782454	Sum of GTIs [s]
l2events	170463	Number of level 2 events



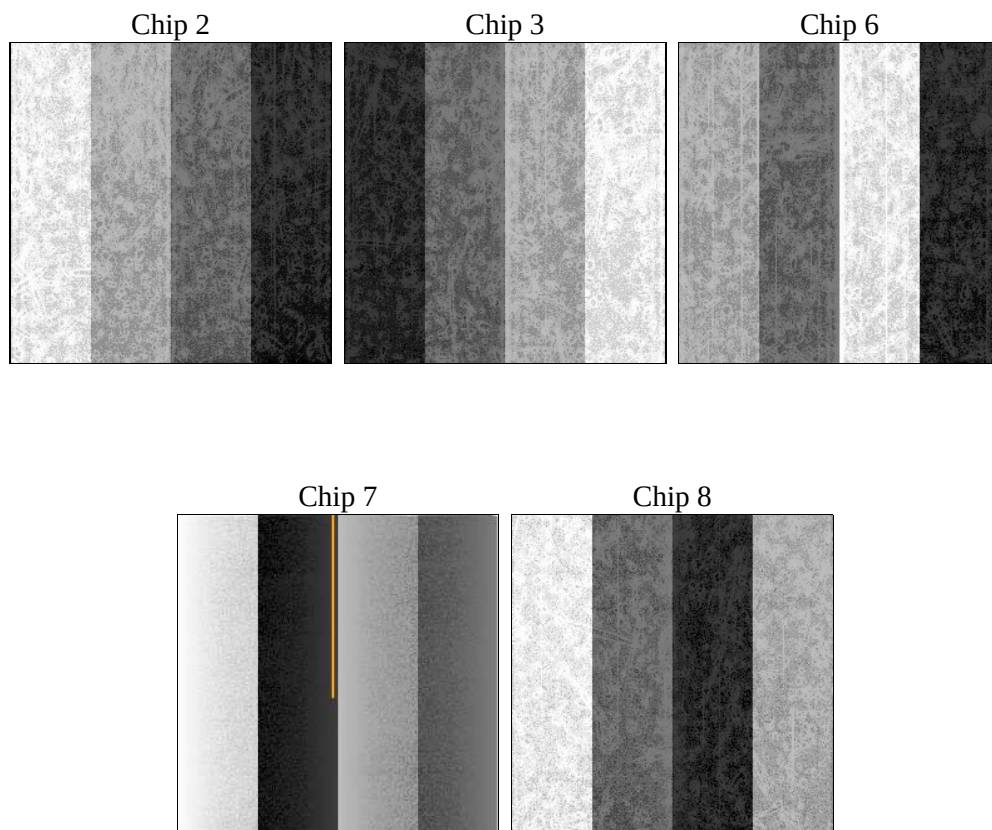
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	27590.536000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	27651.184003115	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	27647.878782868	Sum of GTIs [s]
date	2016-07-12T17:52:45	Date and time of file creation	ontime3	27647.960872769	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	27651.142963171	Sum of GTIs [s]
			ontime7	27651.184003115	Sum of GTIs [s]
			ontime8	27641.637782454	Sum of GTIs [s]
			l1events	978472	Number of level 1 events

2.1.4 Events

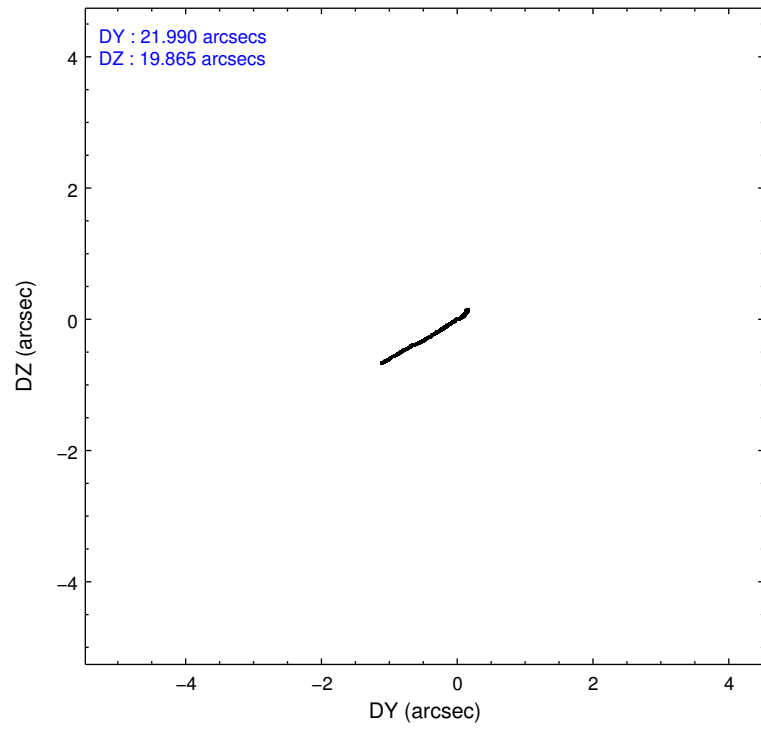
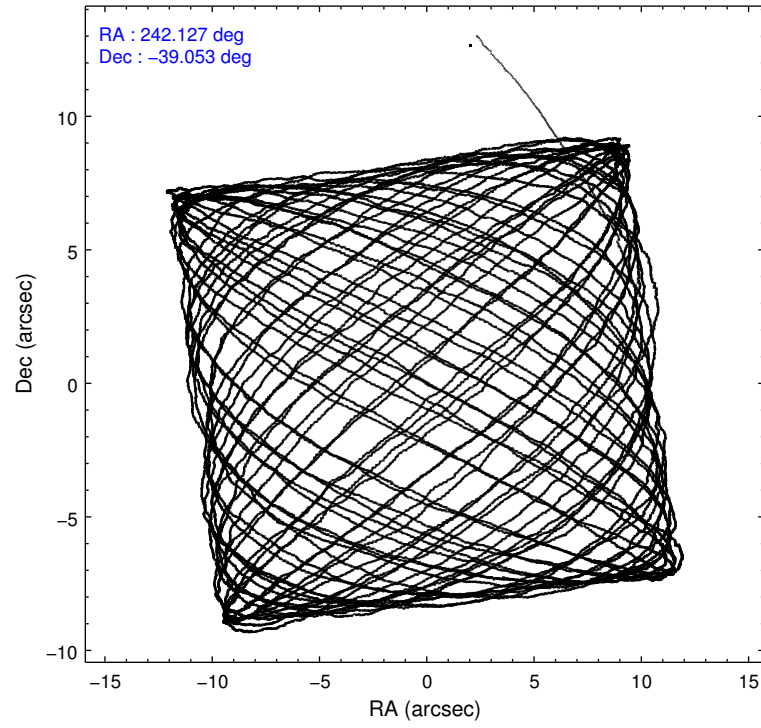
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	170554	171066	185932	227480	223440	grade 0 events	6461	6314	12303	8745	17079
rejected events	152387	153015	159193	129076	164055		3%	3%	6%	3%	7%
rejected %	89%	89%	85%	56%	73%	grade 1 events	105	115	180	276	156
							0%	0%	0%	0%	0%
						grade 2 events	4330	3993	5309	20950	14225
							2%	2%	2%	9%	6%
						grade 3 events	1836	1933	2203	7795	6352
							1%	1%	1%	3%	2%
						grade 4 events	1893	1964	2039	7487	5954
							1%	1%	1%	3%	2%
						grade 5 events	6740	8363	8265	21790	12200
							3%	4%	4%	9%	5%
						grade 6 events	3651	3852	4889	53445	15787
							2%	2%	2%	23%	7%
						grade 7 events	145538	144532	150744	106992	151687
							85%	84%	81%	47%	67%

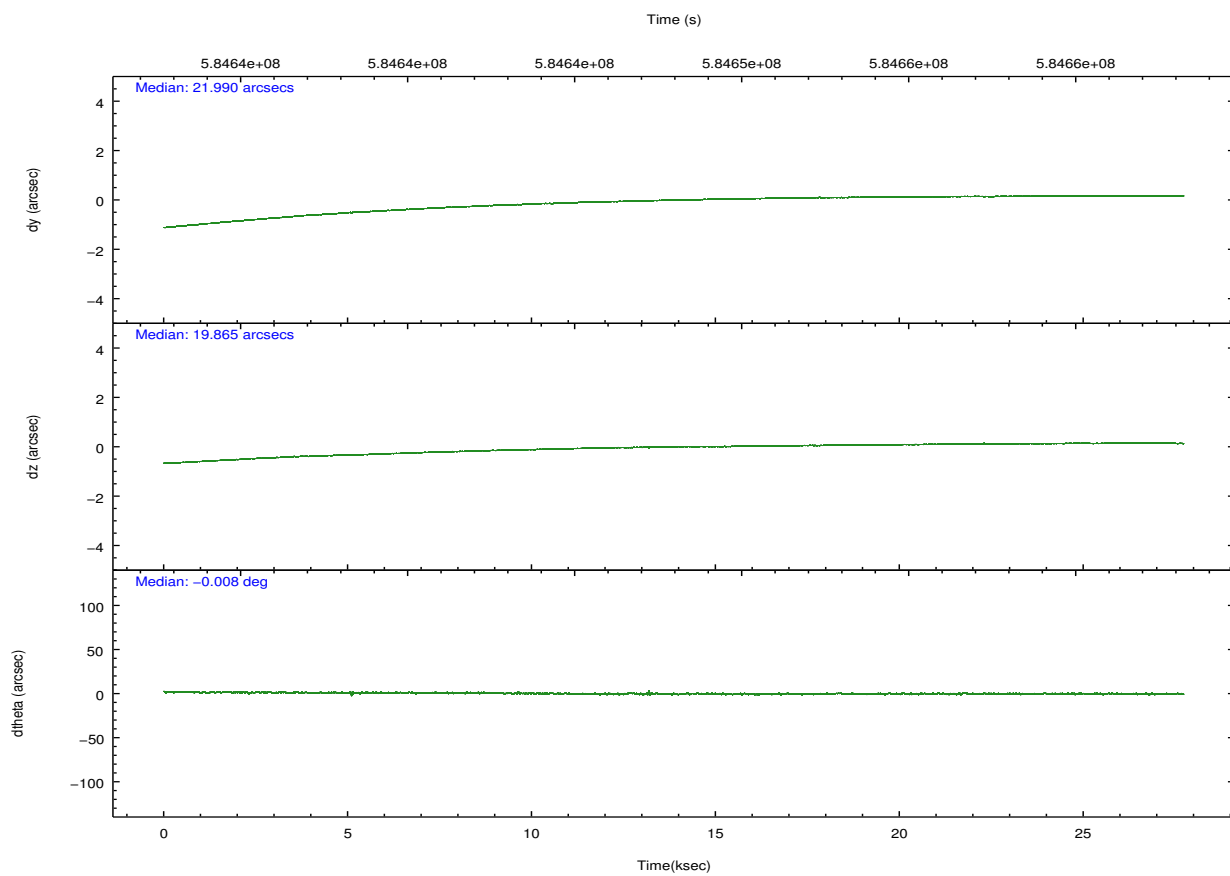
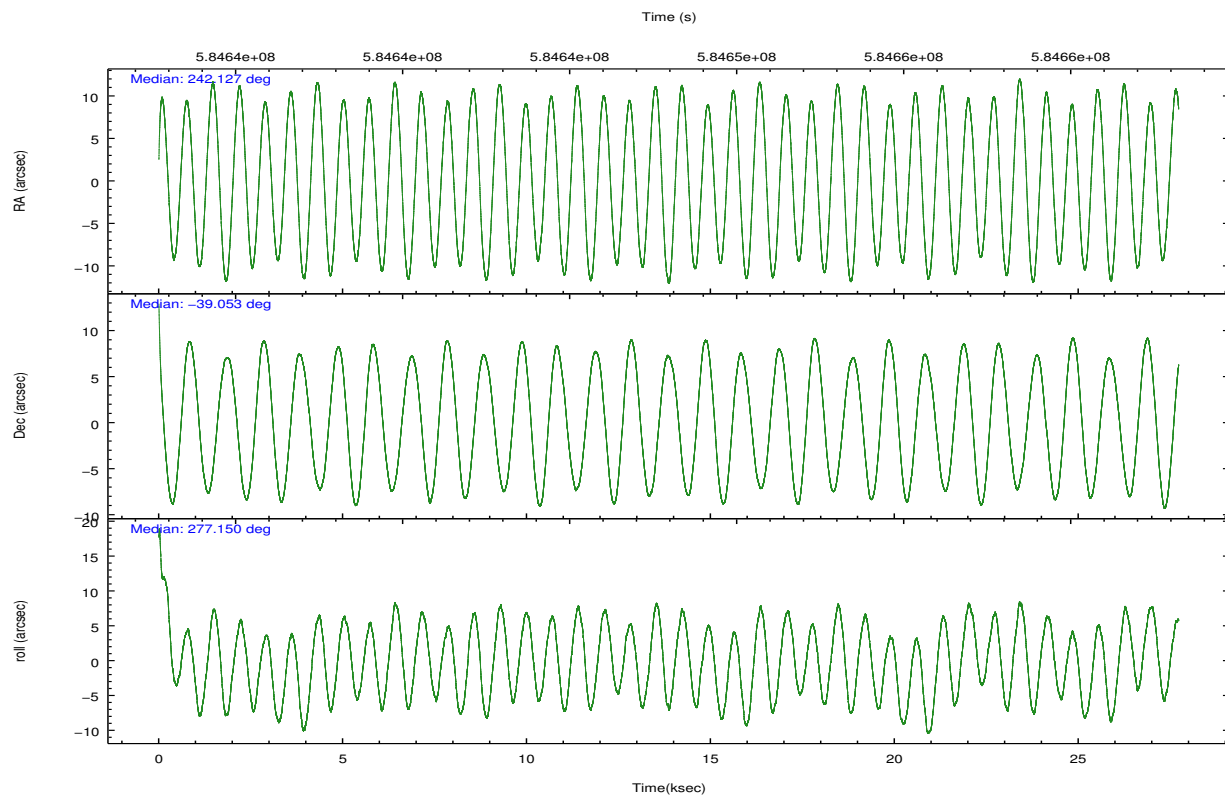
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	242.105265	242.1269937009329
[deg] Pointing Dec	-39.031430	-39.05309646769727
[deg] Pointing Roll	276.988348	277.1586769801291
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	584634254.184000	584632787.7626899
Observation start date	2016-07-11T14:23:06	2016-07-11T13:59:47
[s] Observation end time (MET)	584661844.184000	584662072.52687
Observation end date	2016-07-11T22:02:56	2016-07-11T22:07:52
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



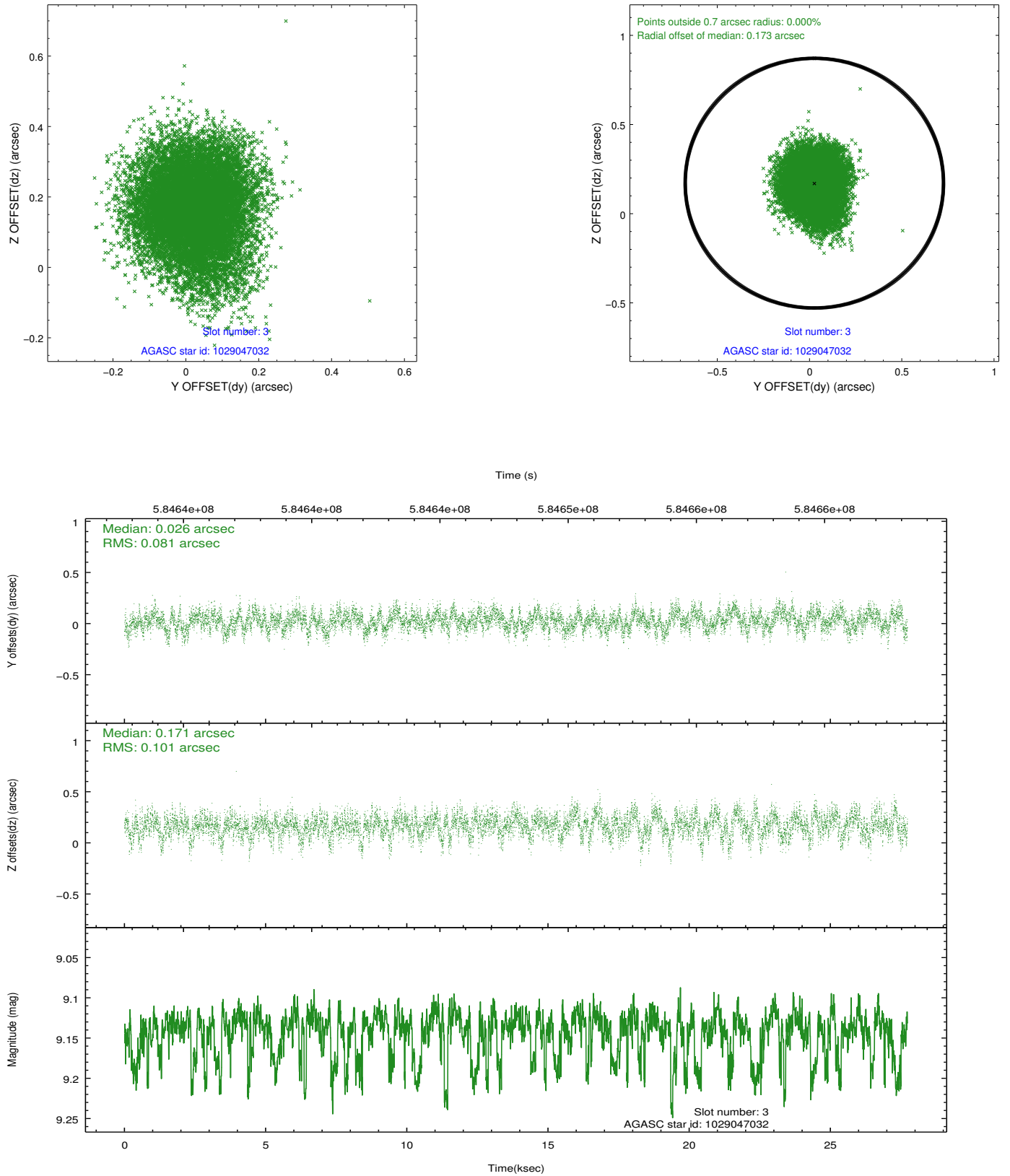


Slot Statistics

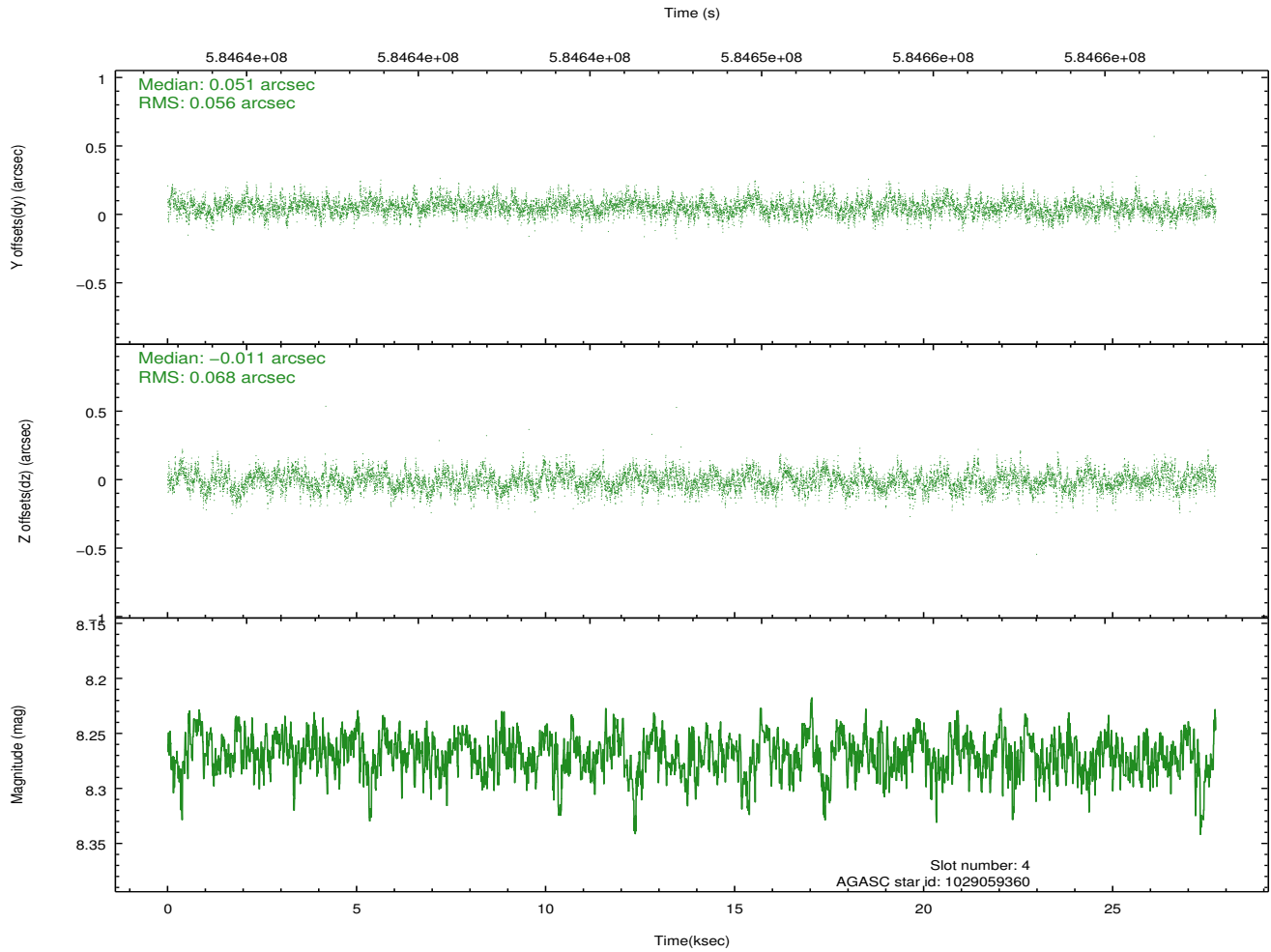
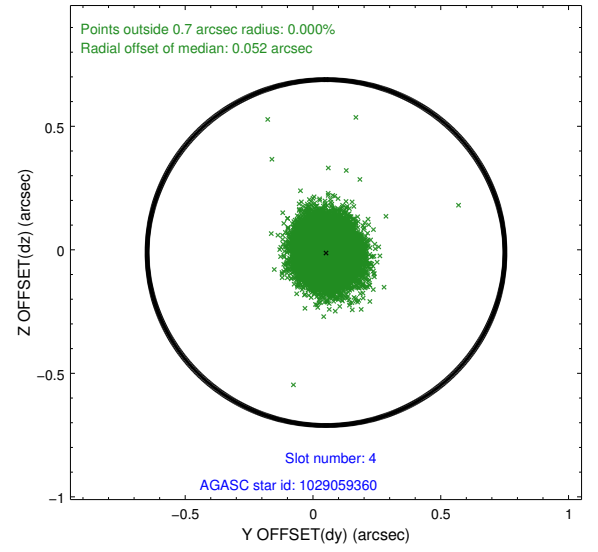
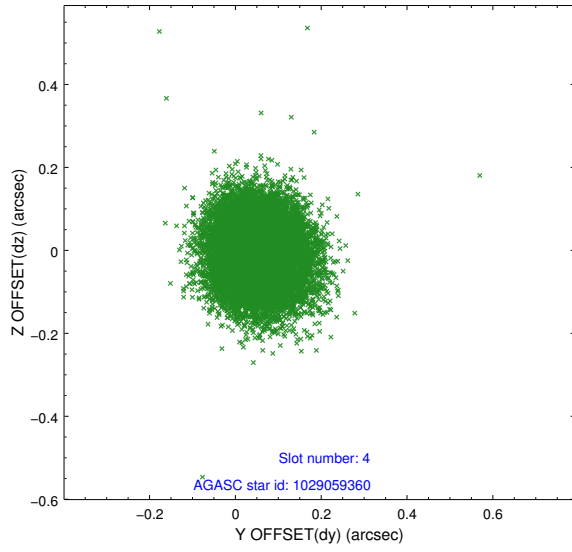
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.20	6763	0.120	-0.078	0.015	0.041	0.000000	0.000000	921.24	-1736.89
1	FID		ACIS-S-5	7.24	6763	-0.295	0.046	0.014	0.021	0.000000	0.000000	-1828.19	160.57
2	FID		ACIS-S-6	7.37	6762	0.155	0.043	0.015	0.028	0.000000	0.000000	386.63	804.72
3	GUIDE	used	1029047032	9.14	13509	0.026	0.171	0.138	0.224	241.657214	-39.145122	258.15	-1291.49
4	GUIDE	used	1029059360	8.27	13519	0.051	-0.011	0.094	0.153	241.638388	-39.259513	661.04	-1391.85
5	GUIDE	used	1029580280	9.15	13514	-0.126	-0.407	0.134	0.211	242.322361	-39.646406	2271.69	327.60
6	GUIDE	used	1029048712	9.24	13510	0.223	0.298	0.157	0.253	241.237794	-38.954366	-557.52	-2377.94
7	GUIDE	used	1029179512	7.26	13523	-0.170	-0.049	0.099	0.168	242.579529	-38.325821	-2355.03	1638.08

2.4 Star Slots

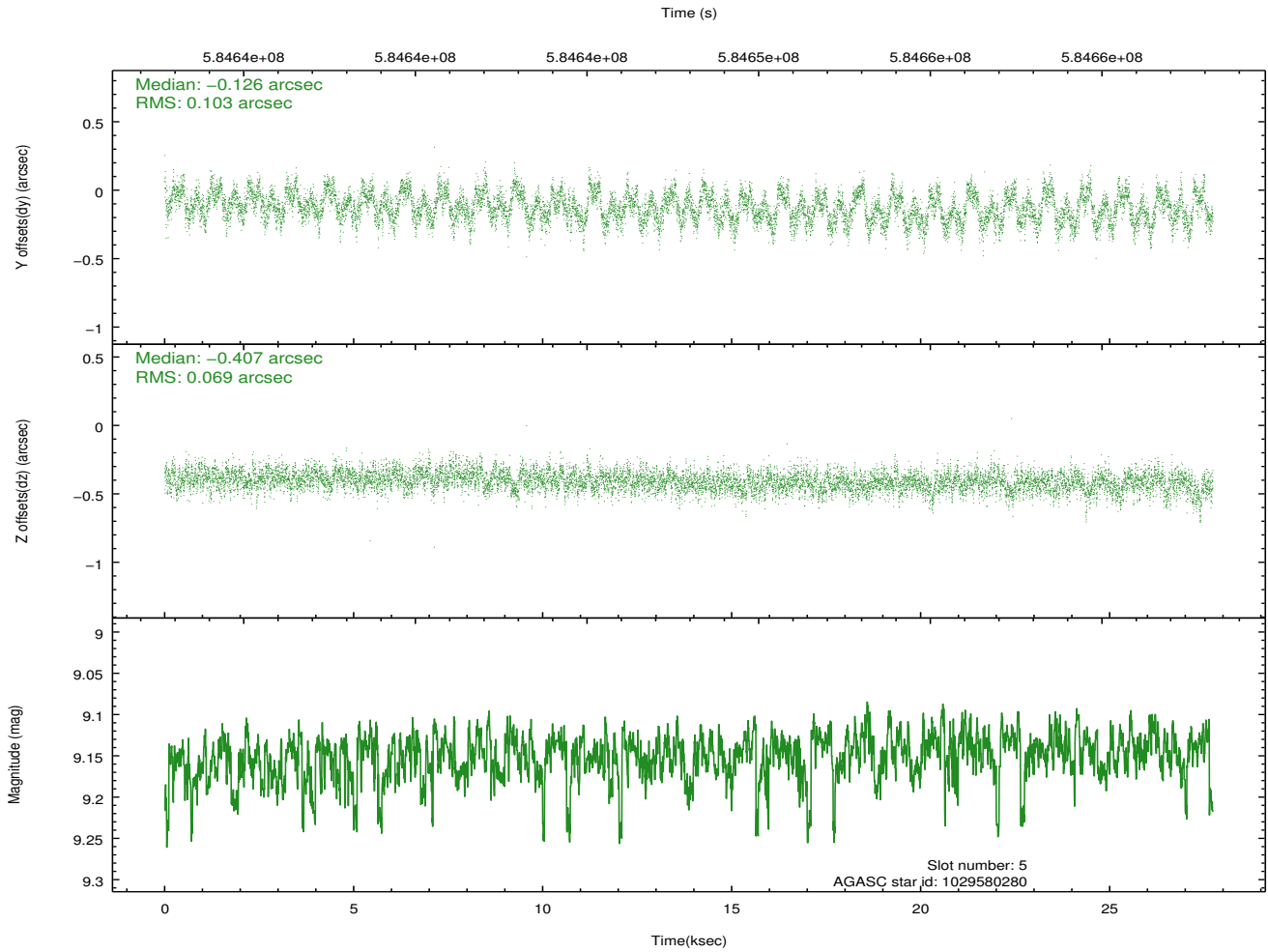
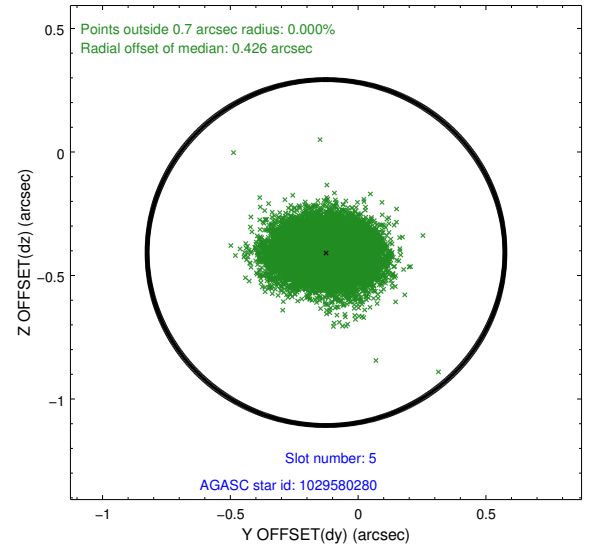
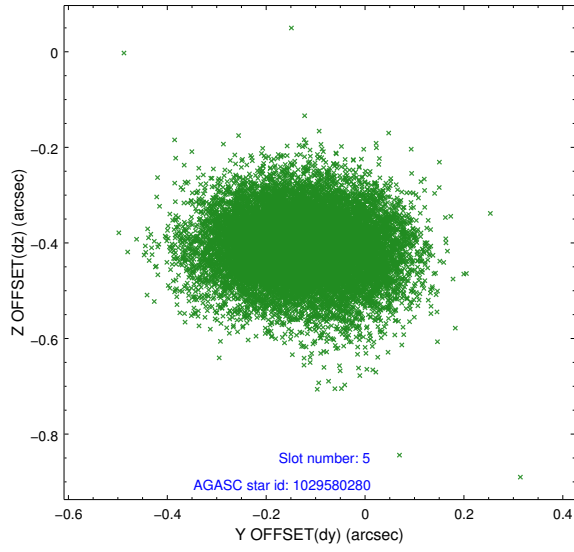
2.4.1 Slot 3



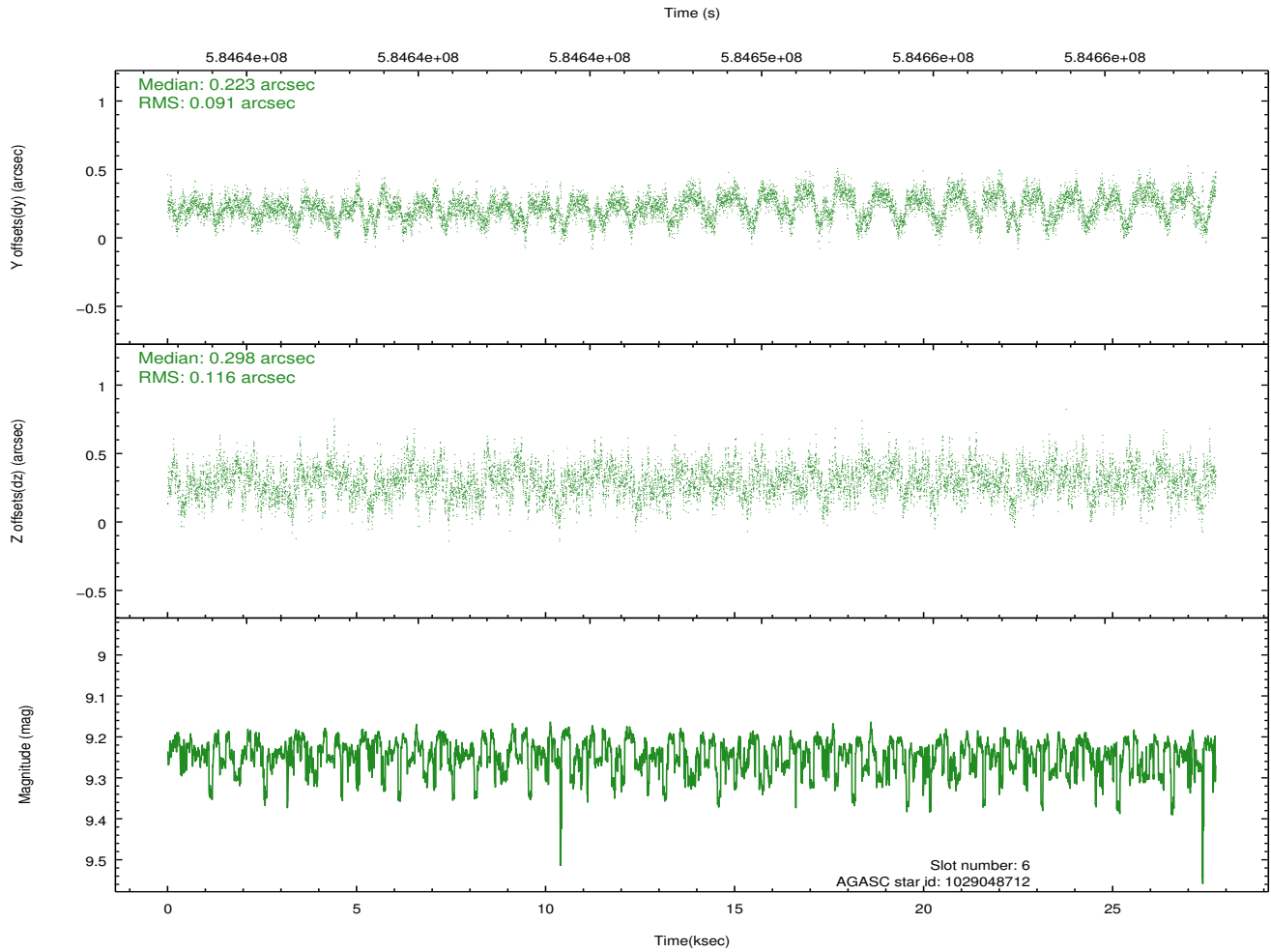
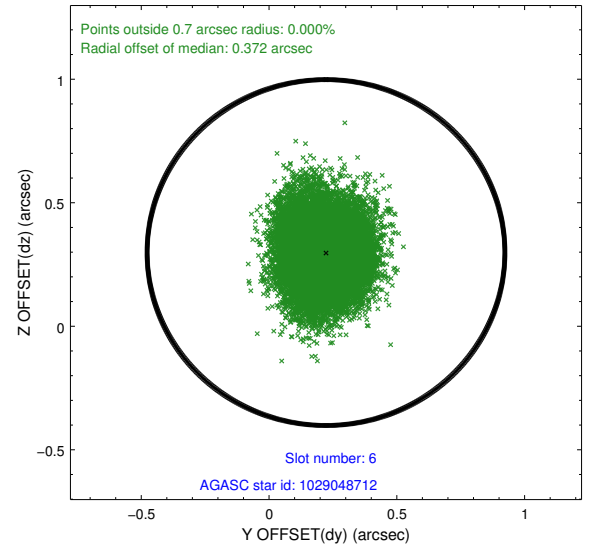
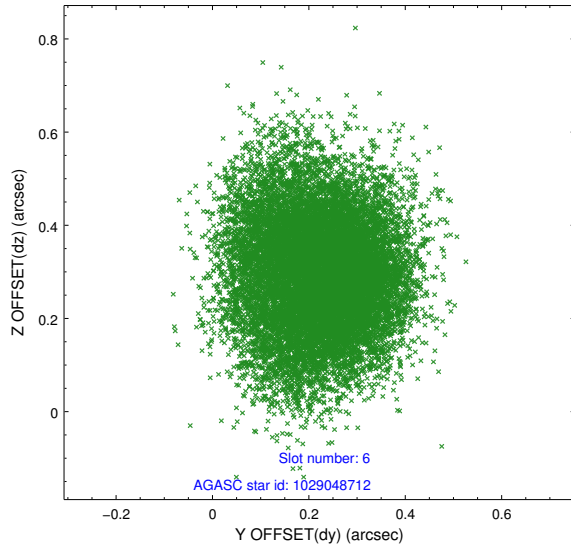
2.4.2 Slot 4



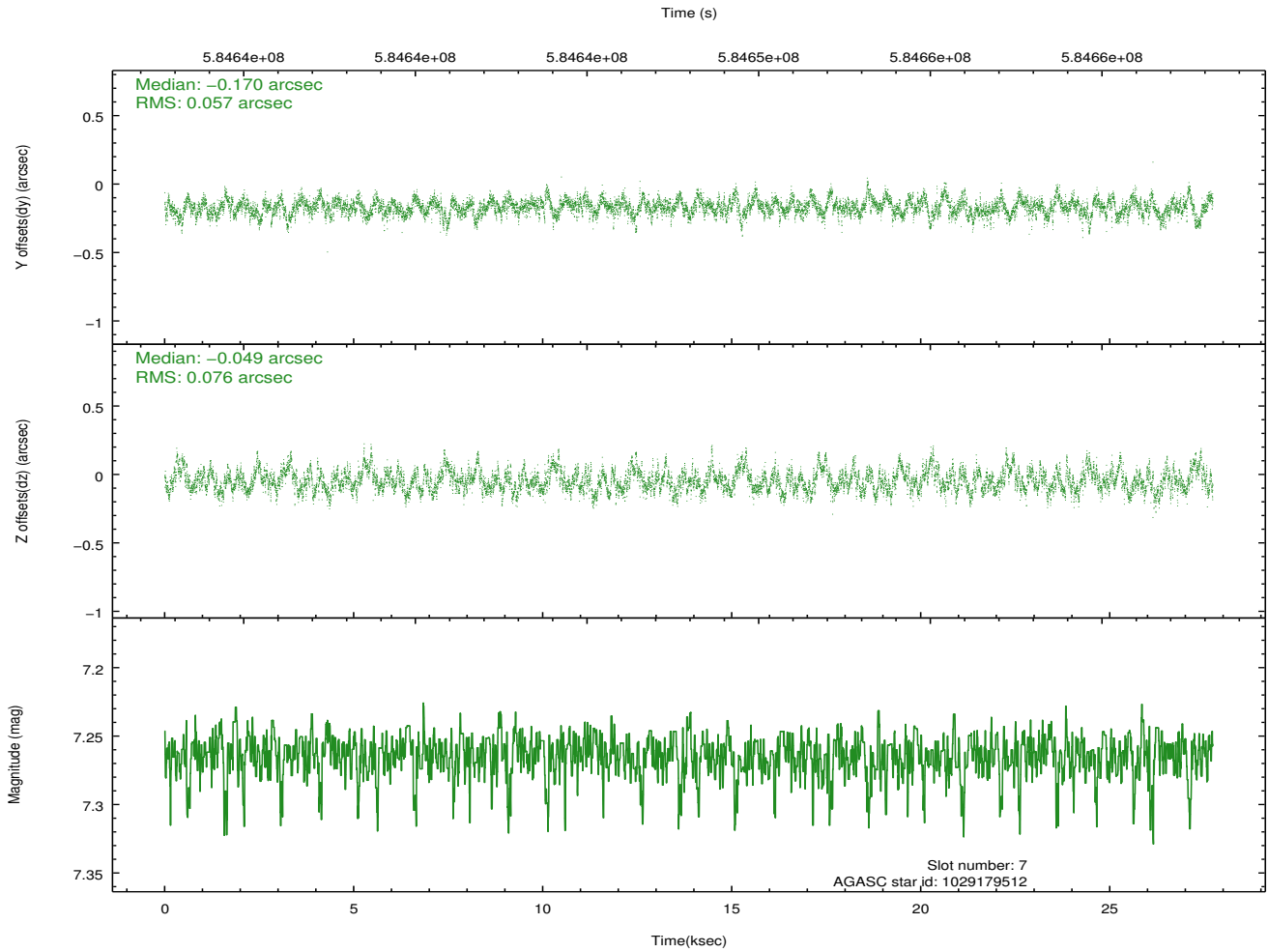
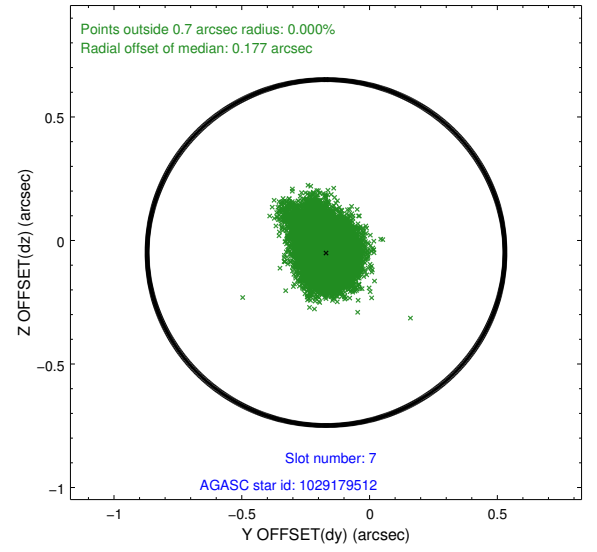
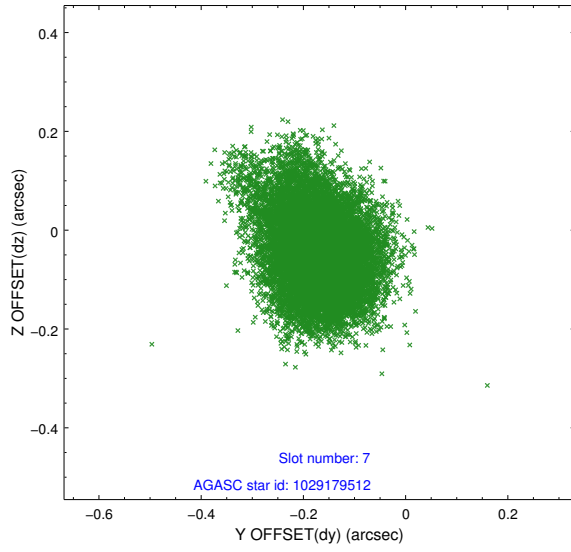
2.4.3 Slot 5



2.4.4 Slot 6

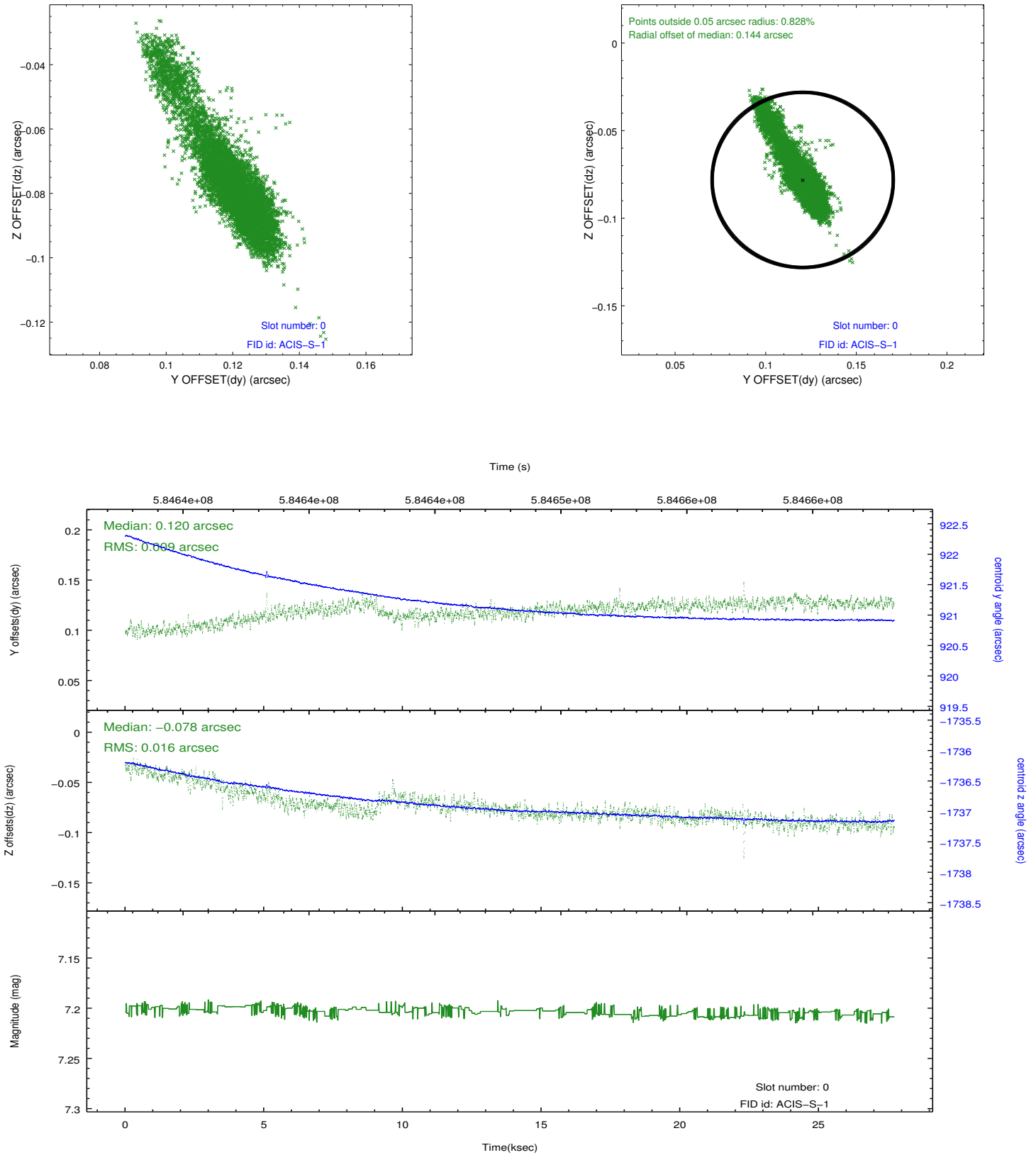


2.4.5 Slot 7

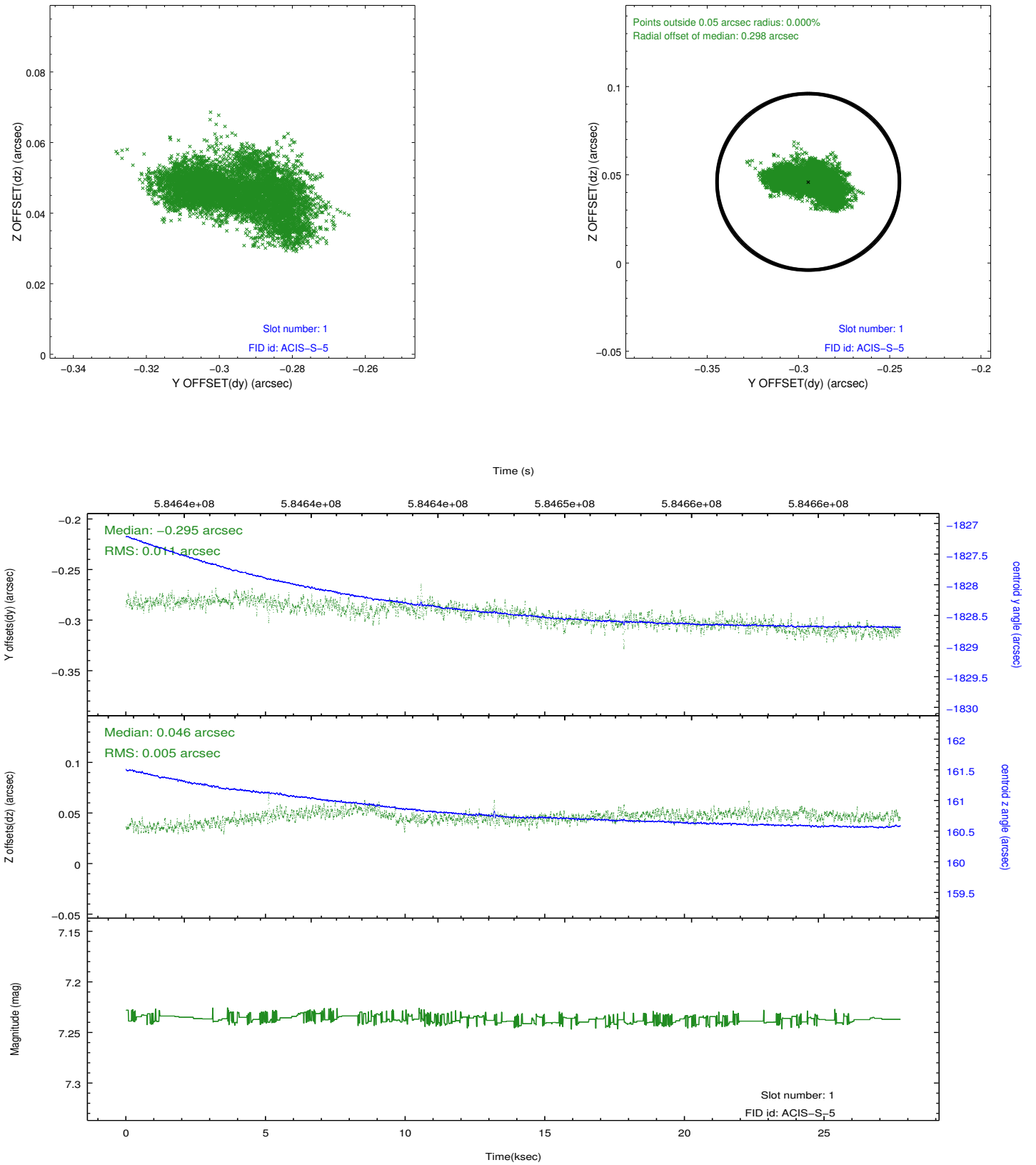


2.5 FID Slots

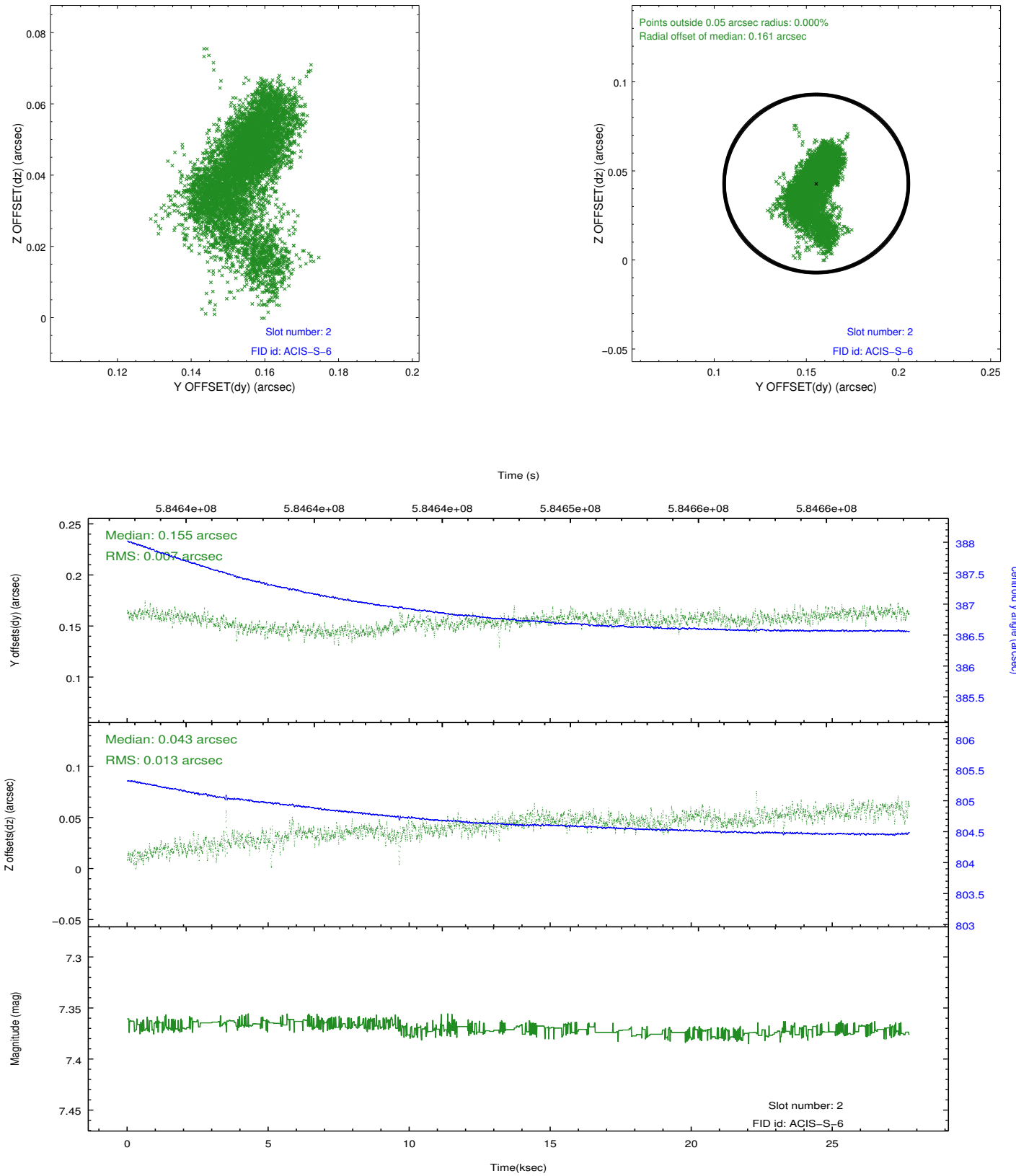
2.5.1 Slot 0



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)	2016.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.651184003115

A.2 Comments