

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19634 - L2 Version 1
Chandra X-Ray Center

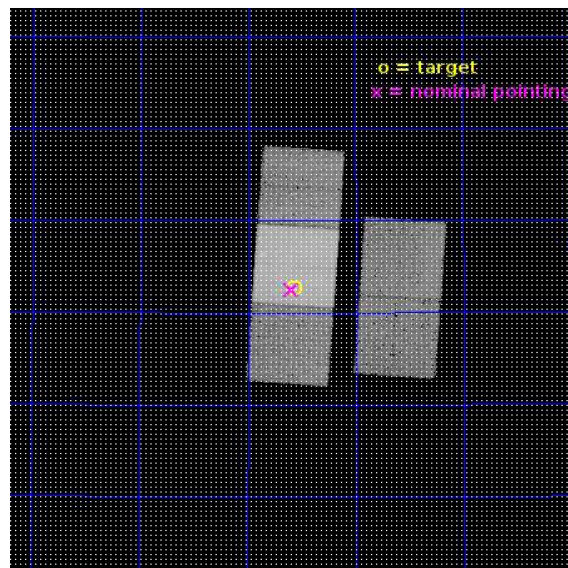
L2 Processing Date : Jun 27 2017

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1 Front

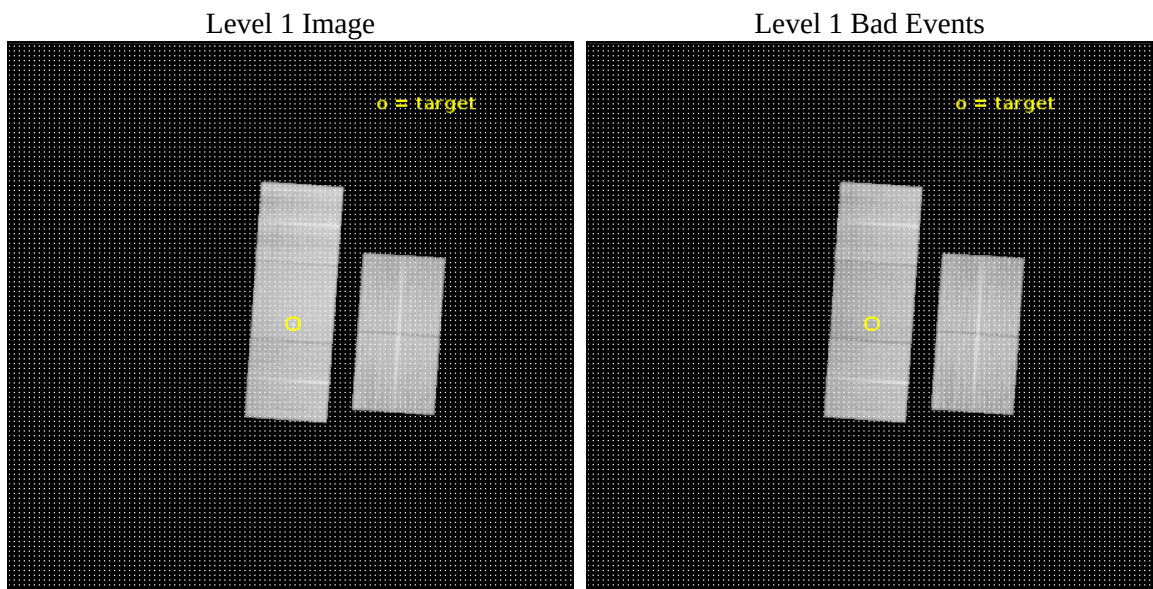
seq_num	703431	Sequence number
obs_id	19634	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	SDSS1004+4112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.1425	Observer's specified target RA [deg]
dec_targ	41.212222	Observer's specified target Dec [deg]
ra_nom	151.14871024413	Nominal RA [deg]
dec_nom	41.208513109591	Nominal Dec [deg]
roll_nom	273.92001030688	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36356.800279737	Sum of GTIs [s]
livetime	35881.771918595	Livetime [s]
ontime2	36356.800279737	Sum of GTIs [s]
ontime3	36356.800279737	Sum of GTIs [s]
ontime6	36350.518408895	Sum of GTIs [s]
ontime7	36356.800279737	Sum of GTIs [s]
ontime8	36350.518378973	Sum of GTIs [s]
l2events	247528	Number of level 2 events



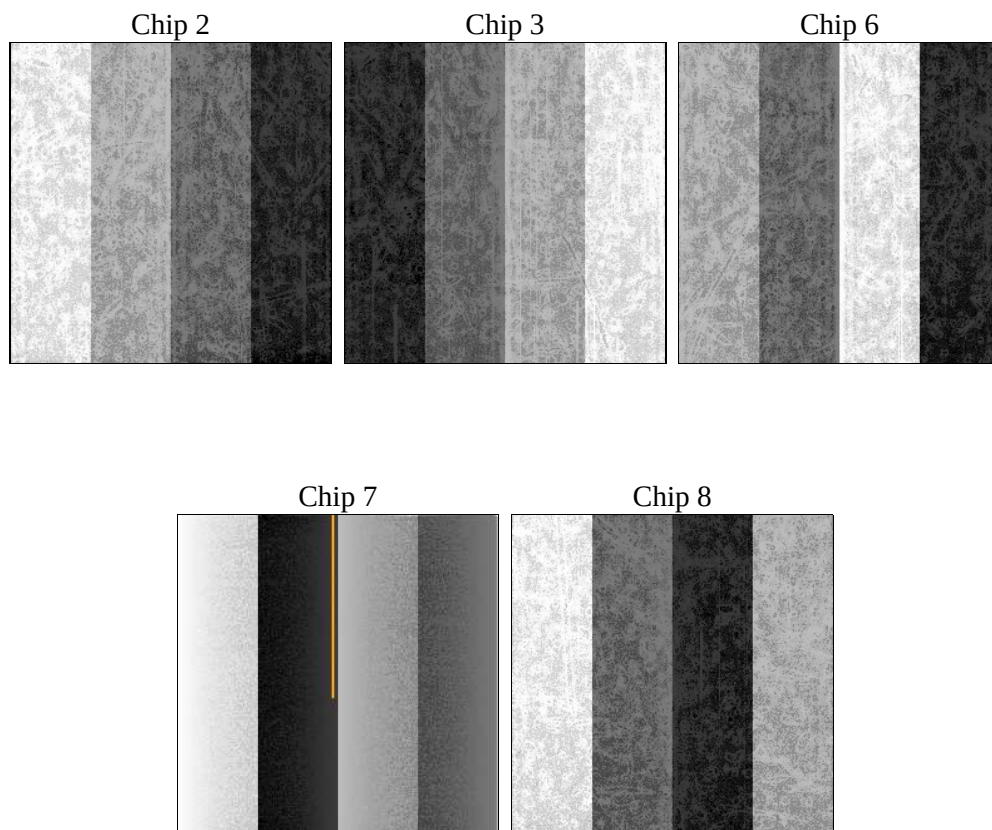
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36300.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	36356.800279737	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	36356.800279737	Sum of GTIs [s]
date	2017-06-27T23:17:06	Date and time of file creation	ontime3	36356.800279737	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	36350.518408895	Sum of GTIs [s]
			ontime7	36356.800279737	Sum of GTIs [s]
			ontime8	36350.518378973	Sum of GTIs [s]
			l1events	1424081	Number of level 1 events

2.1.4 Events

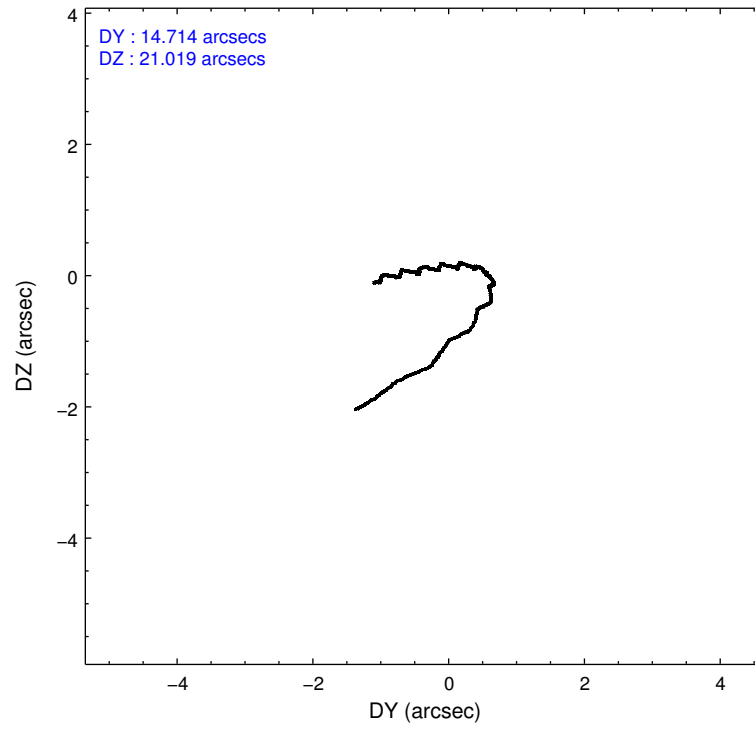
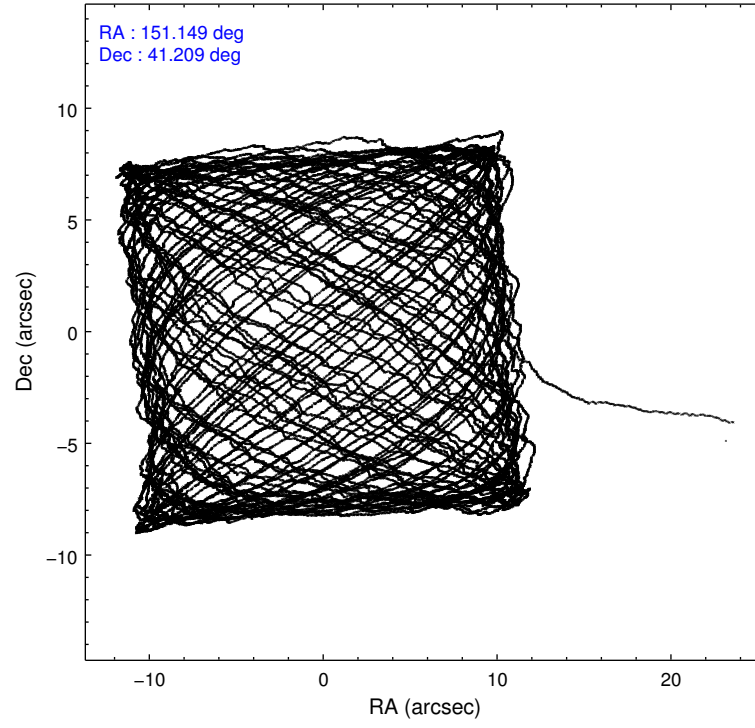
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	246866	243924	259462	332004	341825	grade 0 events	9661	10531	9676	13523	27962
rejected events	219270	216131	229935	184222	248187		3%	4%	3%	4%	8%
rejected %	88%	88%	88%	55%	72%	grade 1 events	148	135	130	477	275
							0%	0%	0%	0%	0%
						grade 2 events	7040	5923	7086	31728	22689
							2%	2%	2%	9%	6%
						grade 3 events	2805	2823	2995	12194	9517
							1%	1%	1%	3%	2%
						grade 4 events	2729	2816	3012	12018	9094
							1%	1%	1%	3%	2%
						grade 5 events	10290	11939	12489	33383	18431
							4%	4%	4%	10%	5%
						grade 6 events	5368	5704	6761	78357	24397
							2%	2%	2%	23%	7%
						grade 7 events	208825	204053	217313	150324	229460
							84%	83%	83%	45%	67%

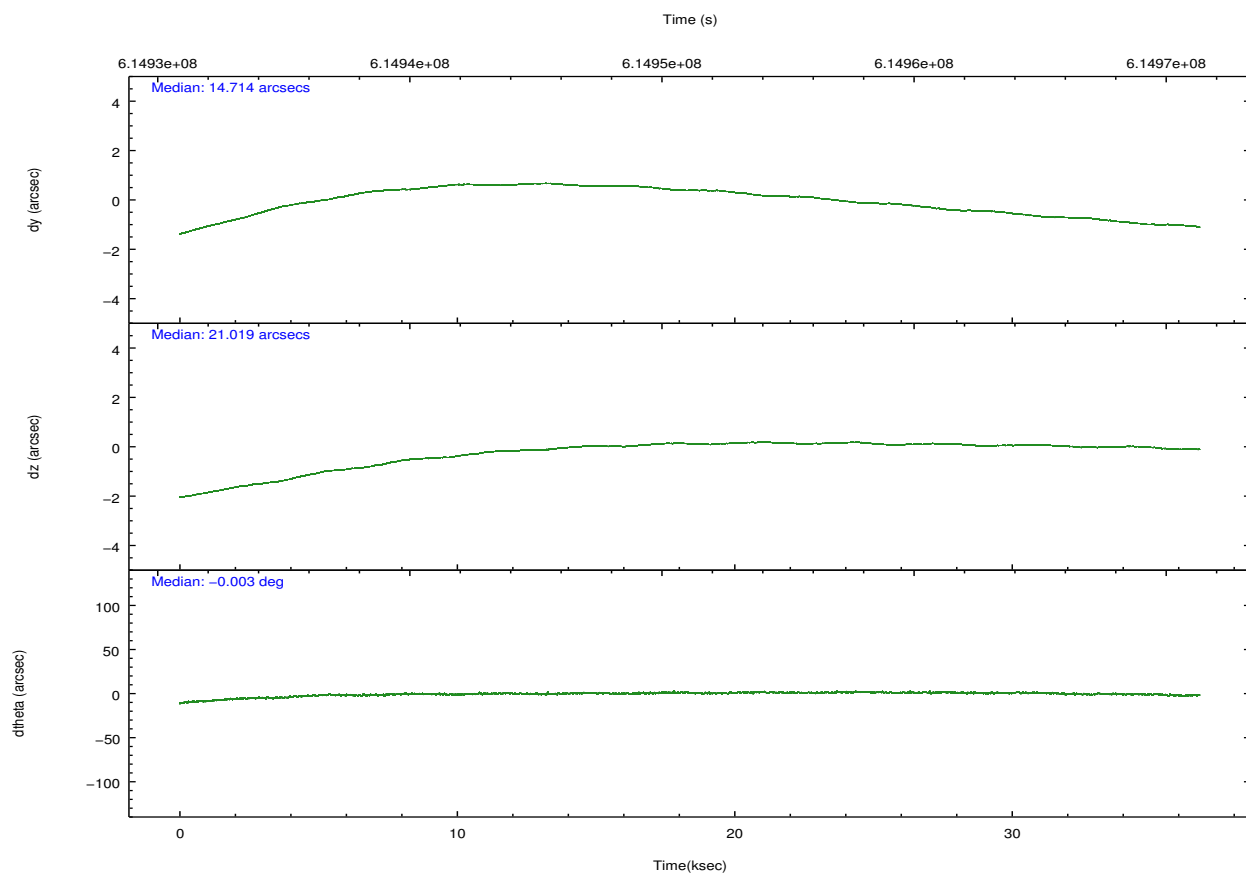
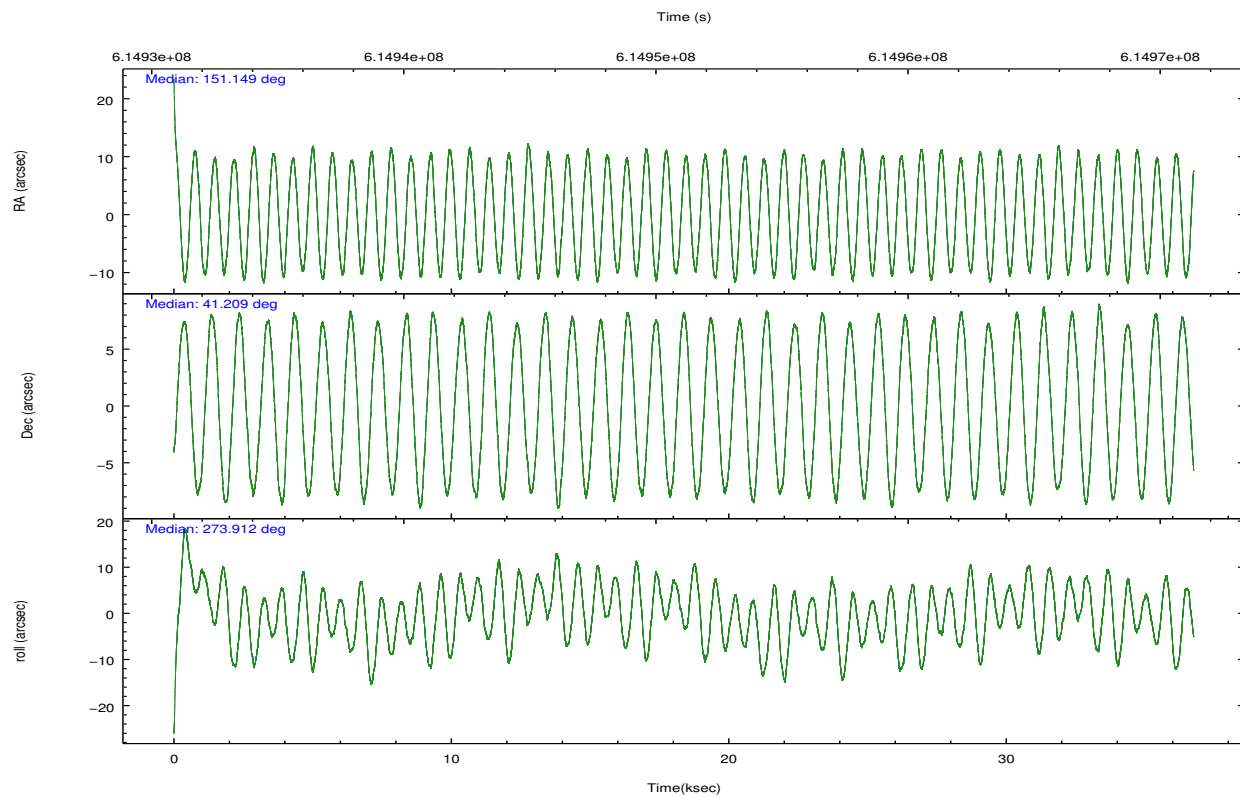
2.2 Compared Parameters

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	151.127943	151.1487102441326
[deg] Pointing Dec	41.231068	41.20851310959144
[deg] Pointing Roll	273.777072	273.92001030688
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	614933187.184000	614931952.48998
Observation start date	2017-06-27T06:45:18	2017-06-27T06:25:52
[s] Observation end time (MET)	614969487.184000	614970389.9922301
Observation end date	2017-06-27T16:50:18	2017-06-27T17:06:29
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	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O4	Y
CCD S3 on	Y	Y
CCD S4 on	O3	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



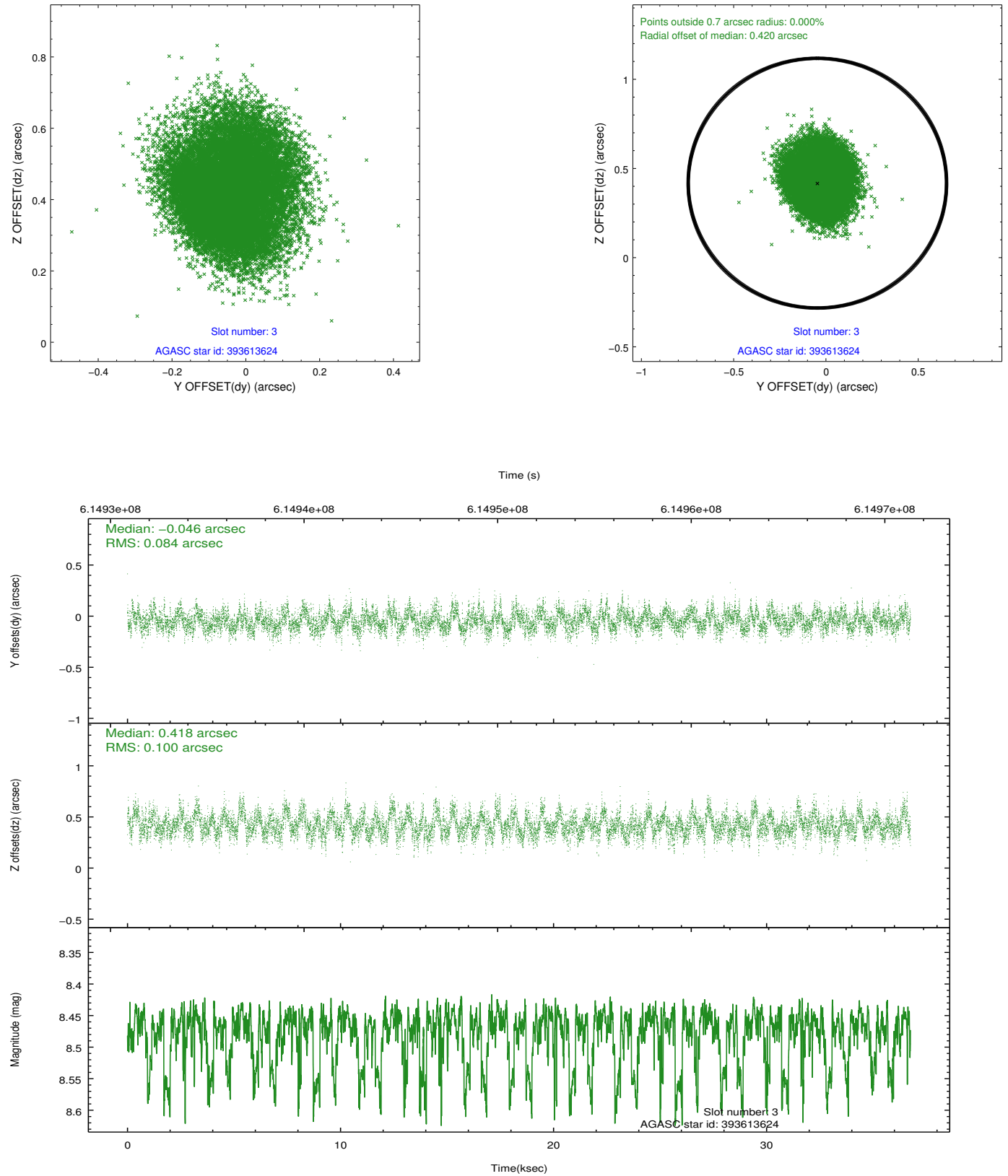


Slot Statistics

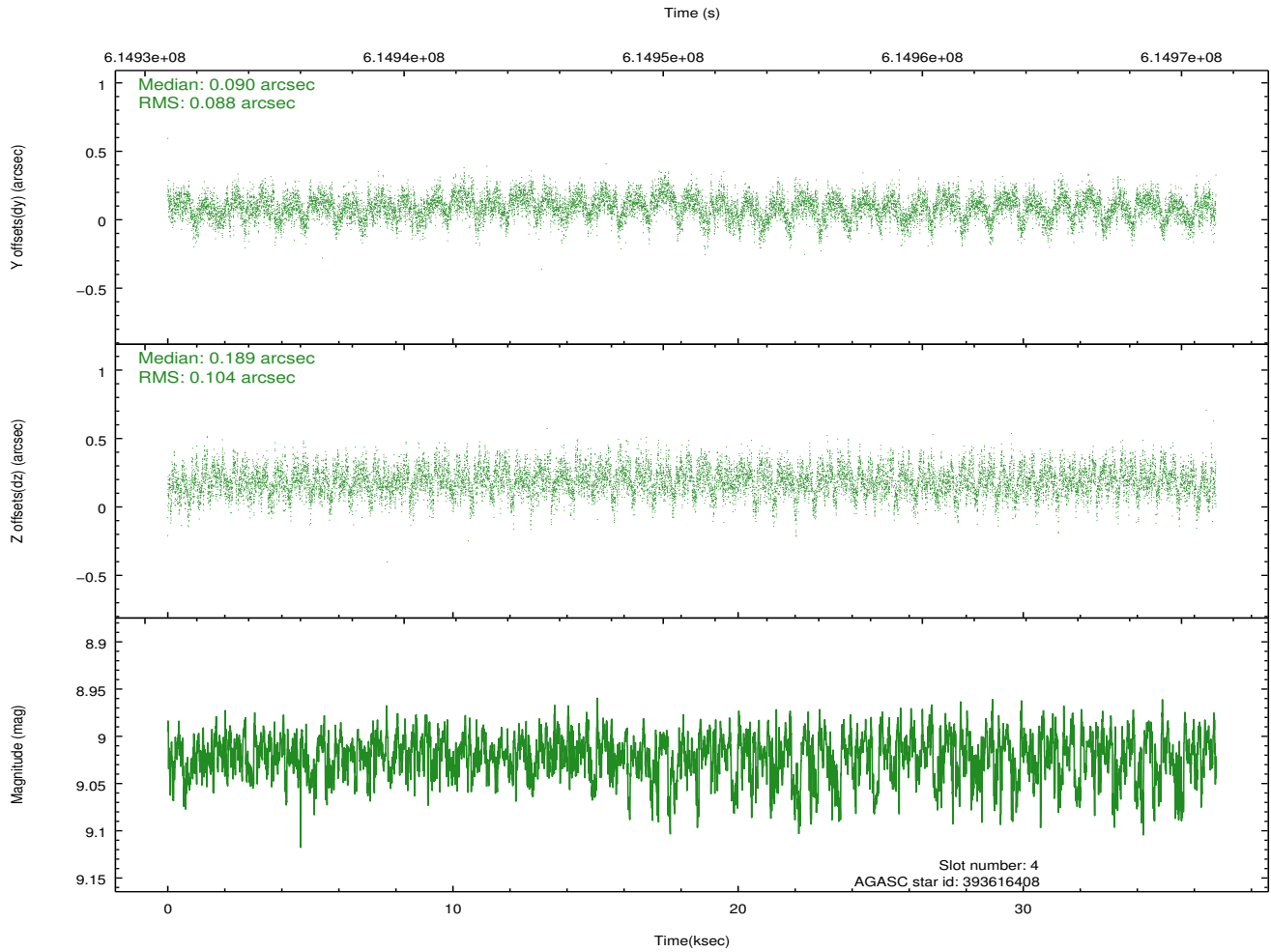
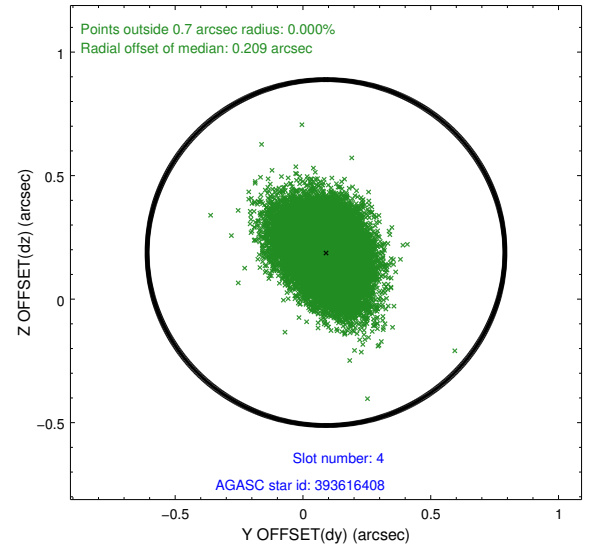
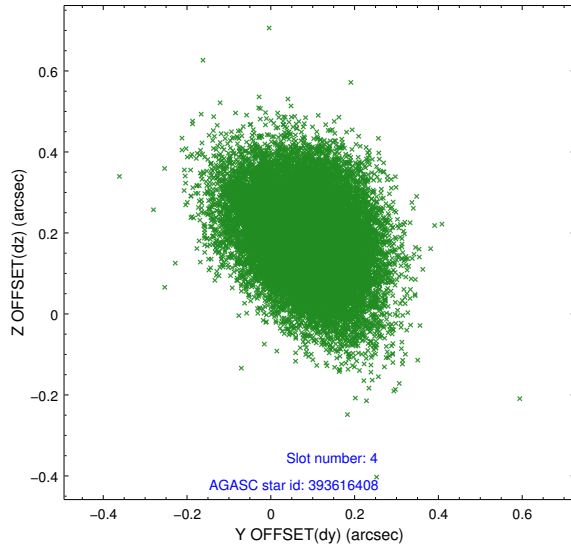
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	8965	0.175	0.005	0.013	0.058	0.000000	0.000000	928.53	-1737.93
1	FID		ACIS-S-2	6.94	8965	-0.220	-0.068	0.007	0.013	0.000000	0.000000	-767.75	-1742.51
2	FID		ACIS-S-6	7.18	8965	0.024	0.068	0.013	0.056	0.000000	0.000000	394.15	803.45
3	GUIDE	used	393613624	8.47	17924	-0.046	0.418	0.140	0.224	151.136661	40.665270	2034.48	-109.67
4	GUIDE	used	393616408	9.02	17906	0.090	0.189	0.144	0.234	150.713966	41.346840	-491.40	-1088.59
5	GUIDE	used	393616688	8.93	17915	-0.068	-0.549	0.170	0.292	151.530834	40.712712	1932.18	973.99
6	GUIDE	used	393616816	8.39	17923	-0.110	-0.020	0.116	0.196	151.562975	40.925077	1174.73	1107.02
7	GUIDE	used	393619280	9.34	17906	0.155	-0.045	0.170	0.282	150.915222	40.640455	2084.51	-719.95

2.4 Star Slots

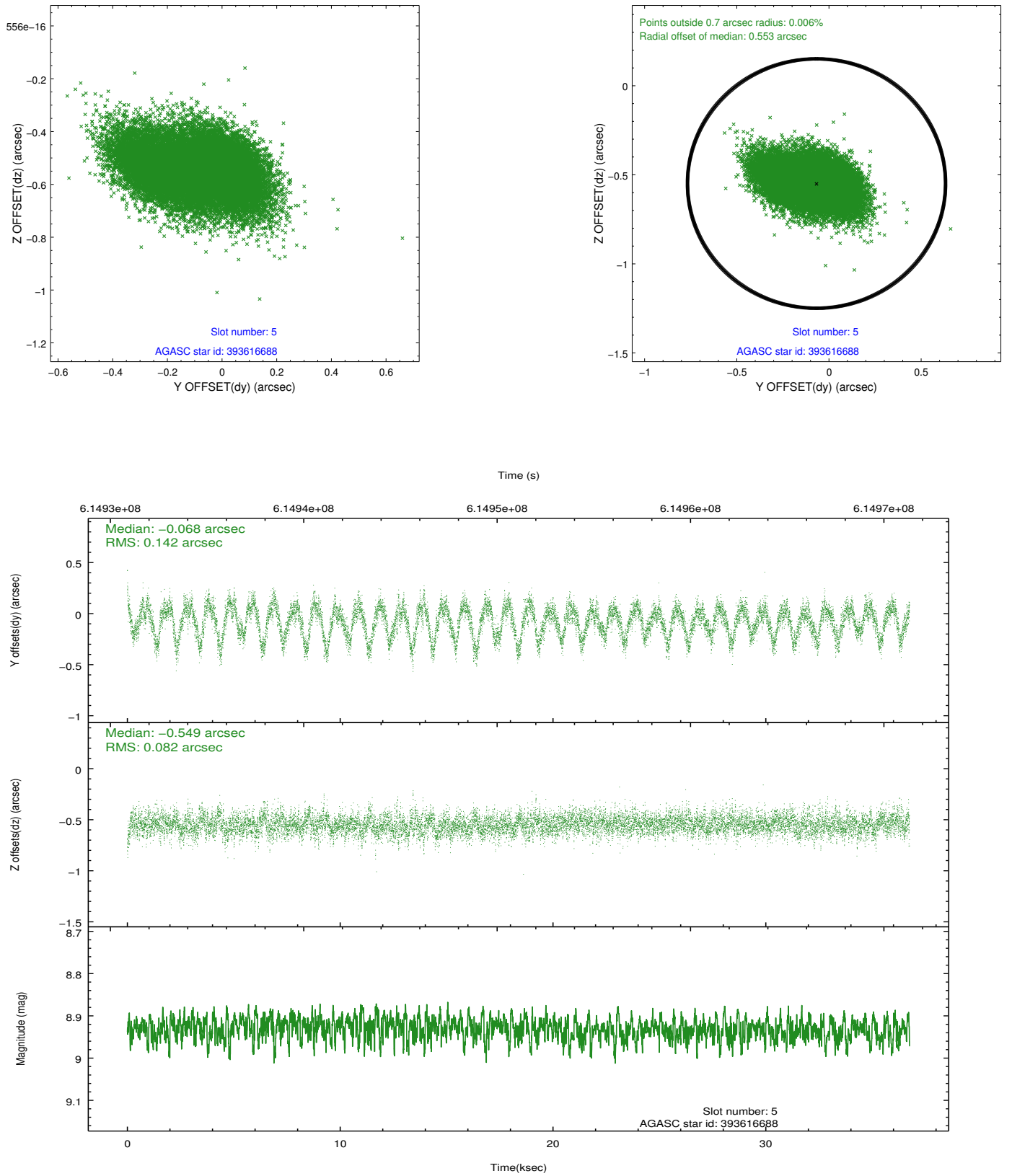
2.4.1 Slot 3



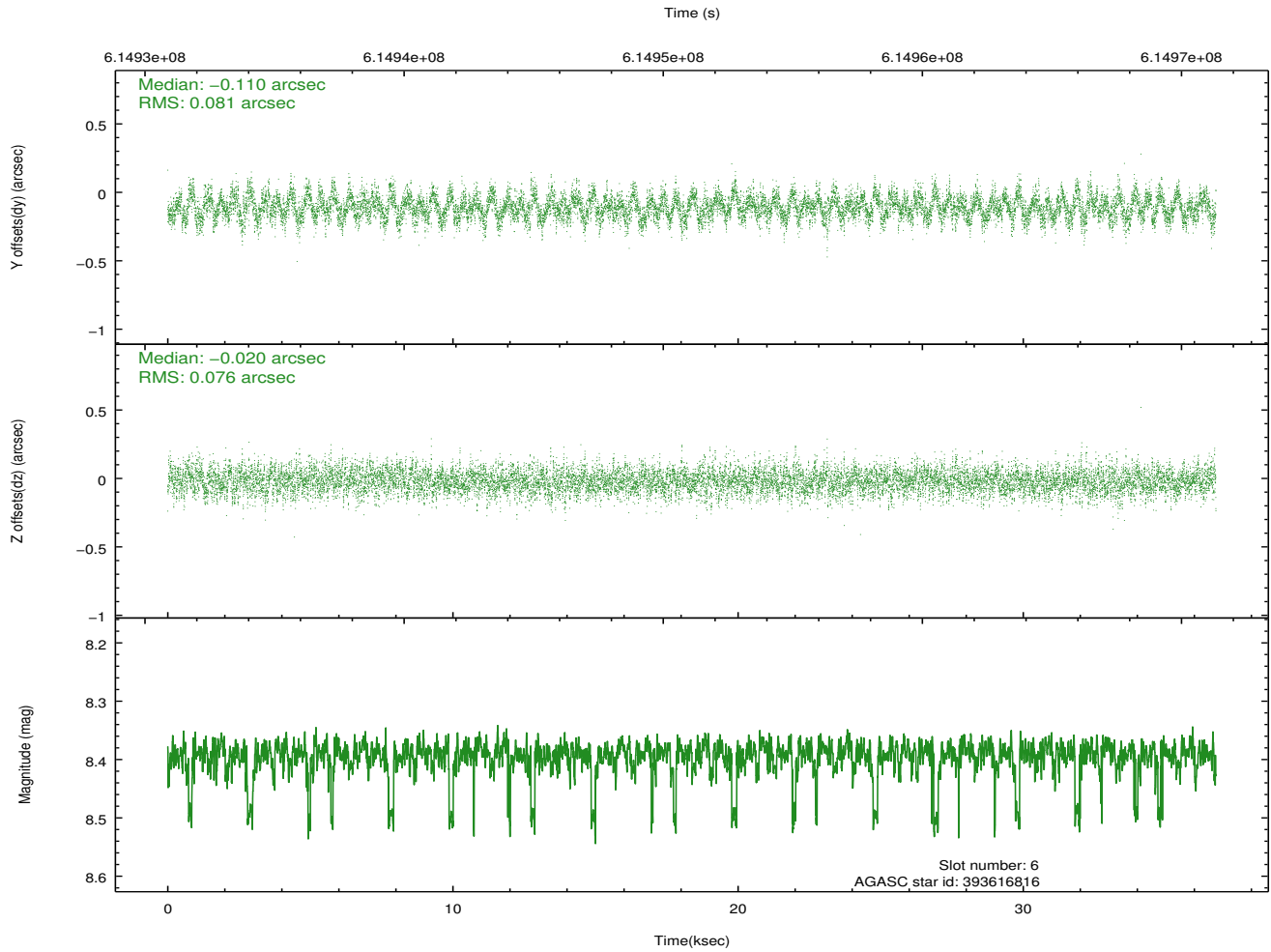
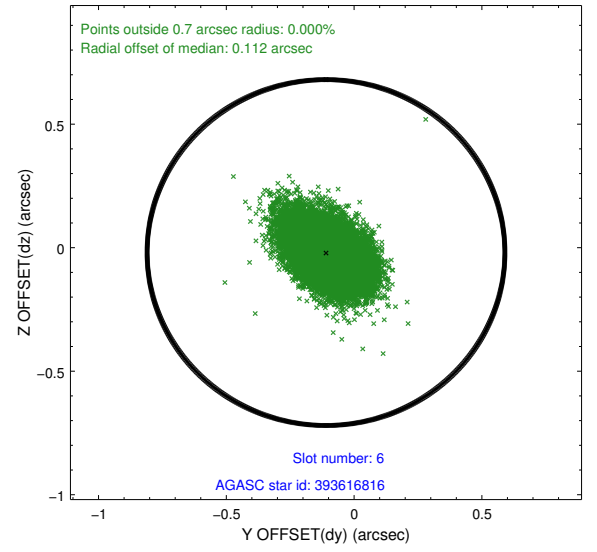
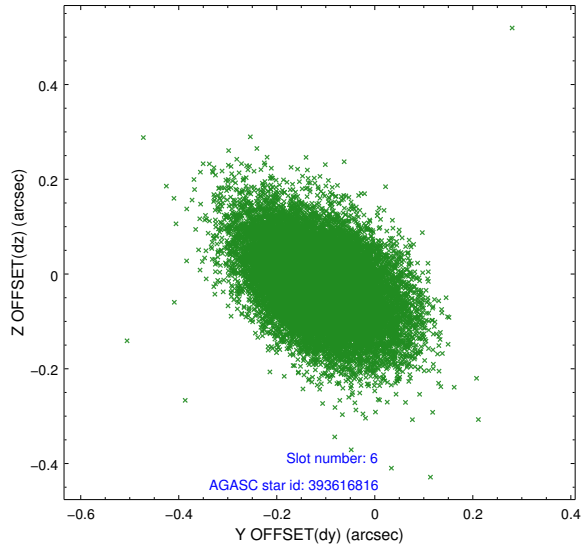
2.4.2 Slot 4



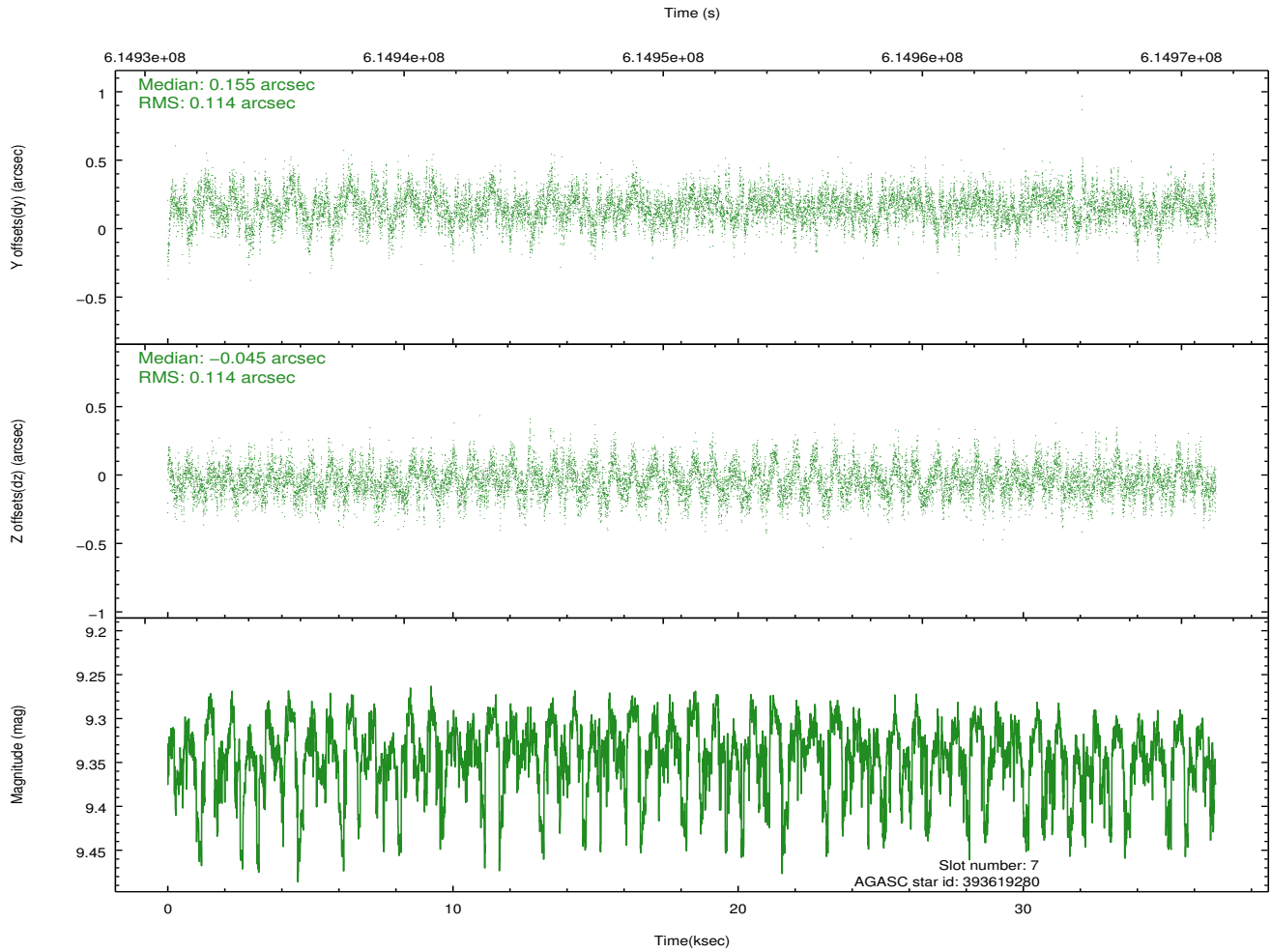
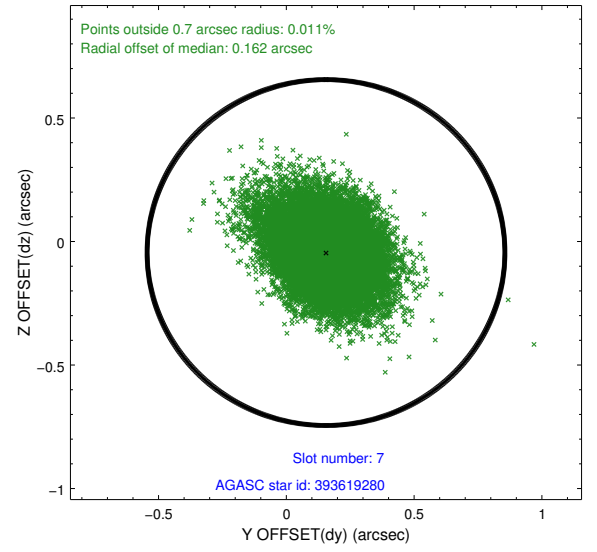
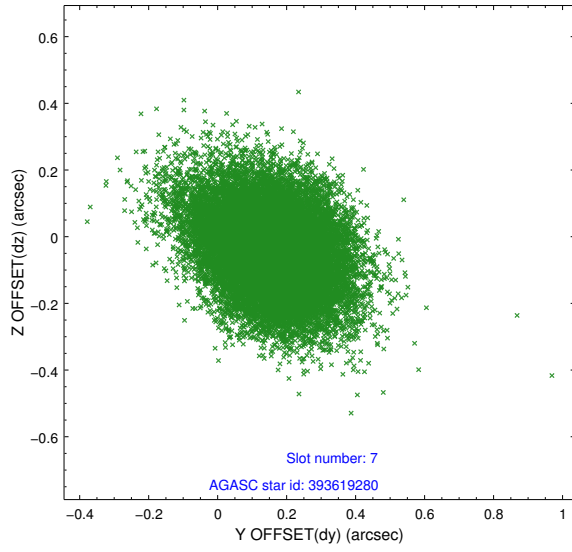
2.4.3 Slot 5



2.4.4 Slot 6

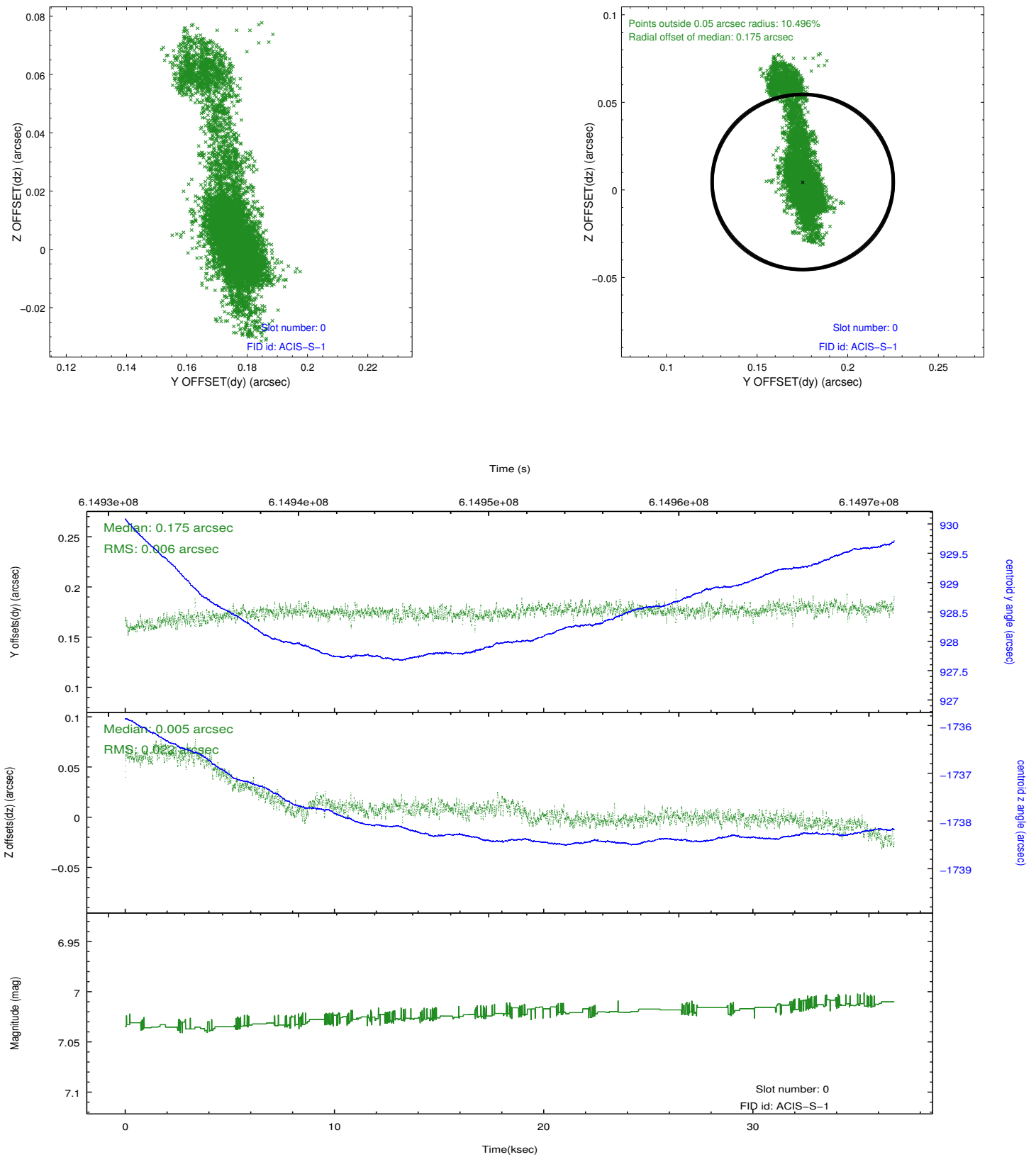


2.4.5 Slot 7

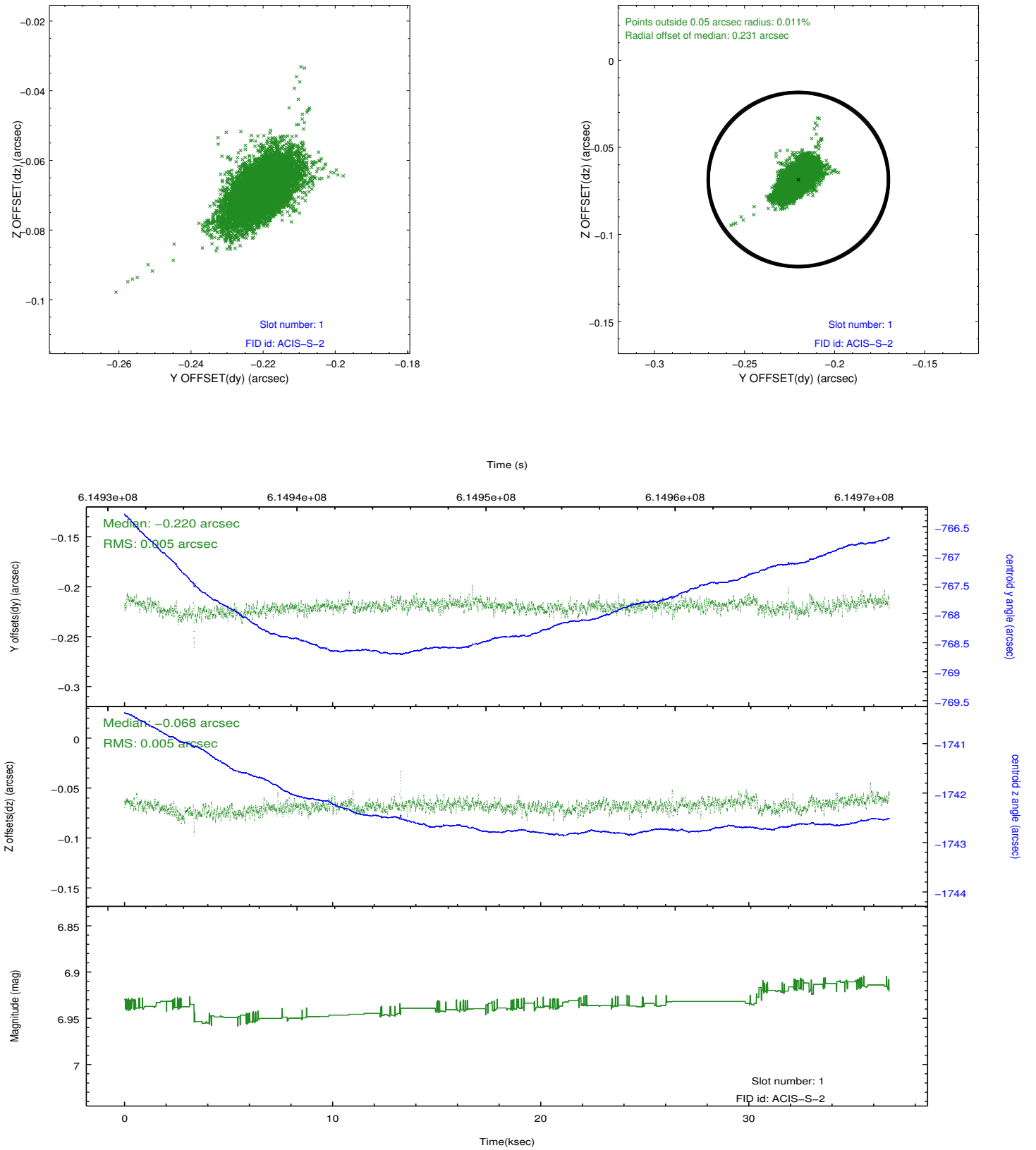


2.5 FID Slots

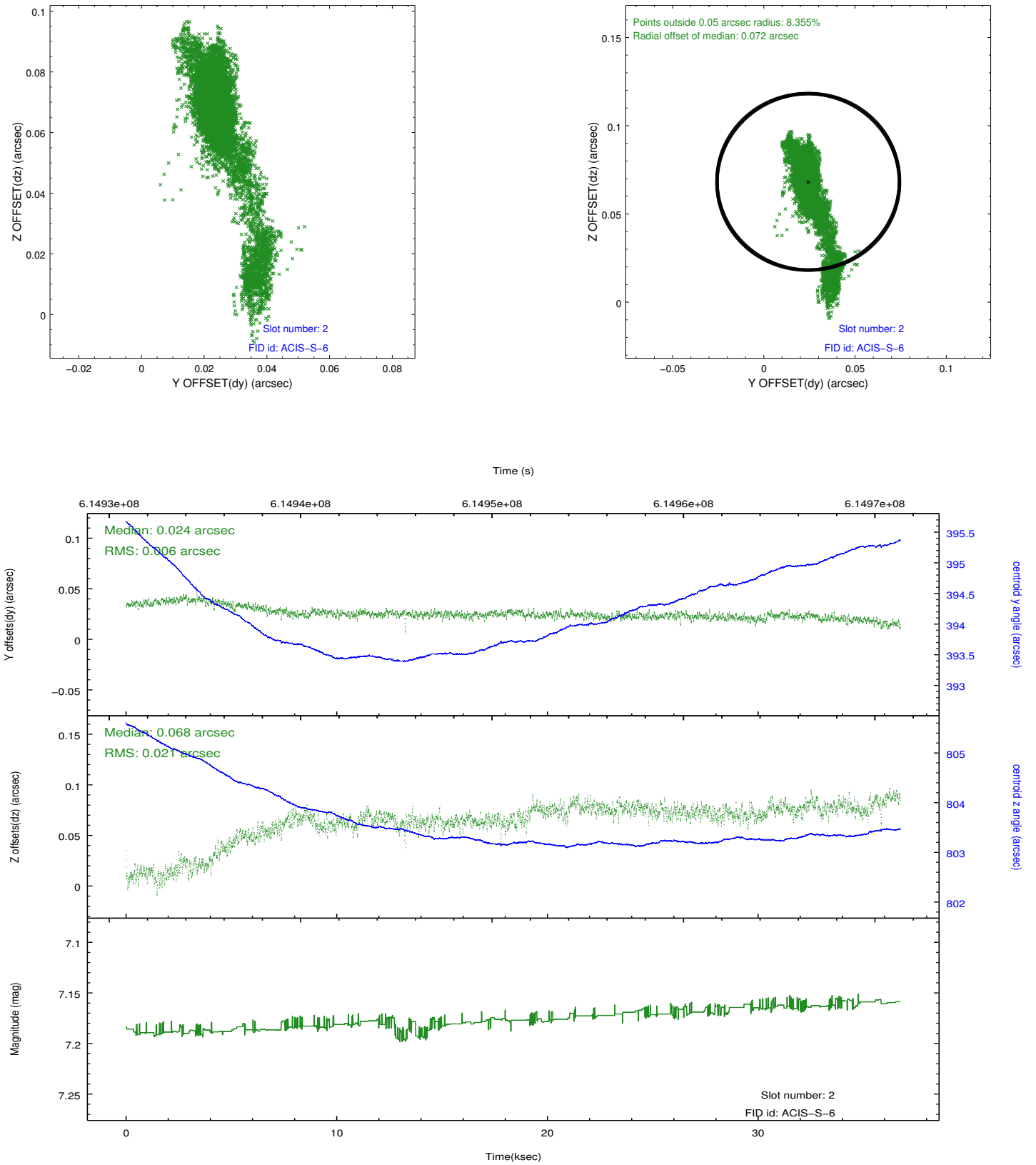
2.5.1 Slot 0



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)	2017.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.356800279737

A.2 Comments