

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19635 - L2 Version 1
Chandra X-Ray Center

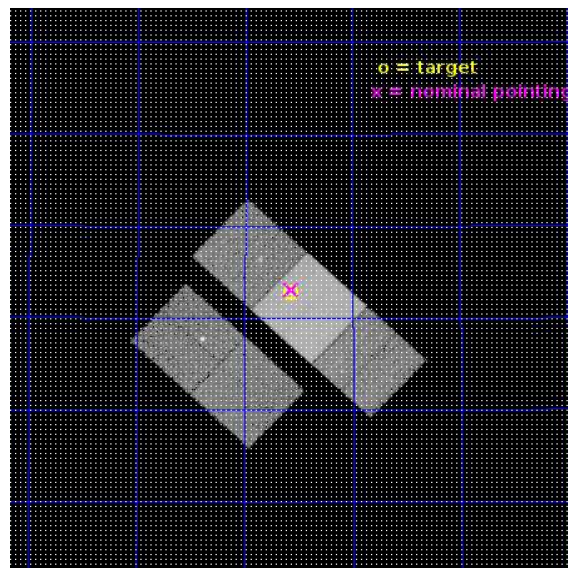
L2 Processing Date : Oct 2 2017

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1 Front

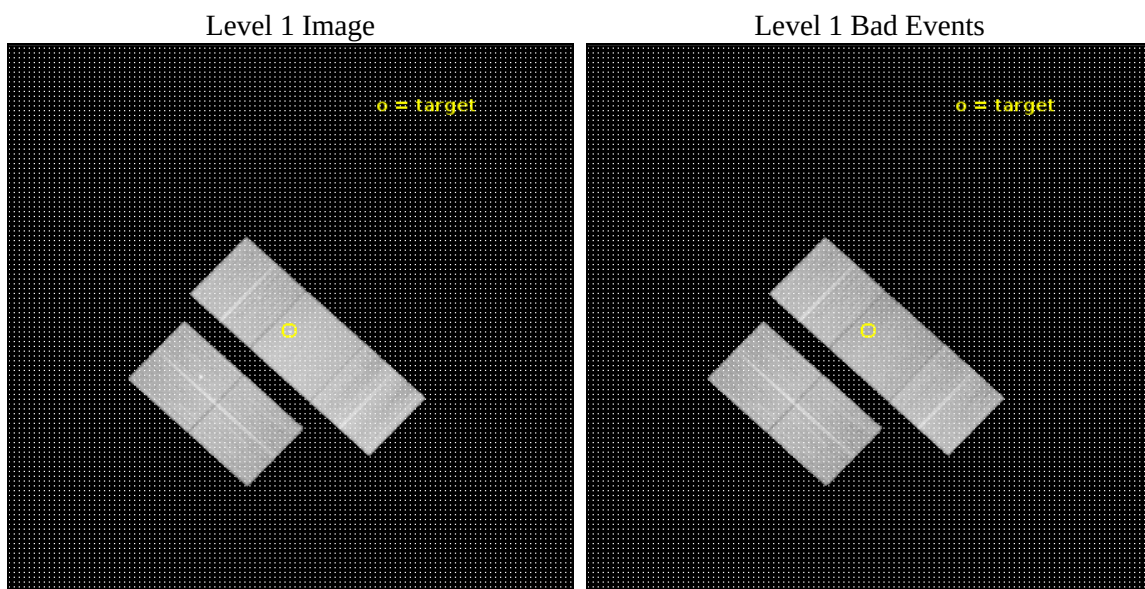
seq_num	703432	Sequence number
obs_id	19635	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	SDSS1004+4112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.1425	Observer's specified target RA [deg]
dec_targ	41.212222	Observer's specified target Dec [deg]
ra_nom	151.14238931233	Nominal RA [deg]
dec_nom	41.218205118571	Nominal Dec [deg]
roll_nom	43.156703332228	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38920.500299454	Sum of GTIs [s]
livetime	38411.975310186	Livetime [s]
ontime2	38920.500299454	Sum of GTIs [s]
ontime3	38911.077288508	Sum of GTIs [s]
ontime6	38914.218288898	Sum of GTIs [s]
ontime7	38920.500299454	Sum of GTIs [s]
ontime8	38917.359329224	Sum of GTIs [s]
l2events	242397	Number of level 2 events



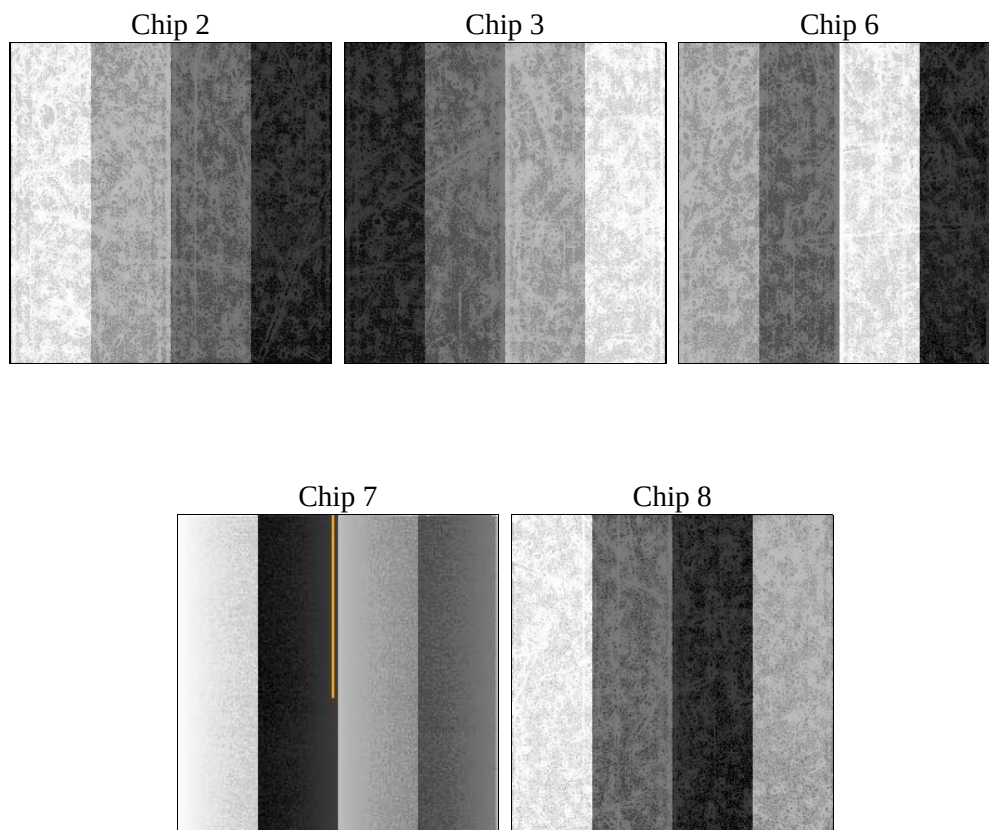
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38867.952000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	38920.500299454	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	38920.500299454	Sum of GTIs [s]
date	2017-10-02T05:06:38	Date and time of file creation	ontime3	38911.077288508	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	38914.218288898	Sum of GTIs [s]
			ontime7	38920.500299454	Sum of GTIs [s]
			ontime8	38917.359329224	Sum of GTIs [s]
			l1events	1413475	Number of level 1 events

2.1.4 Events

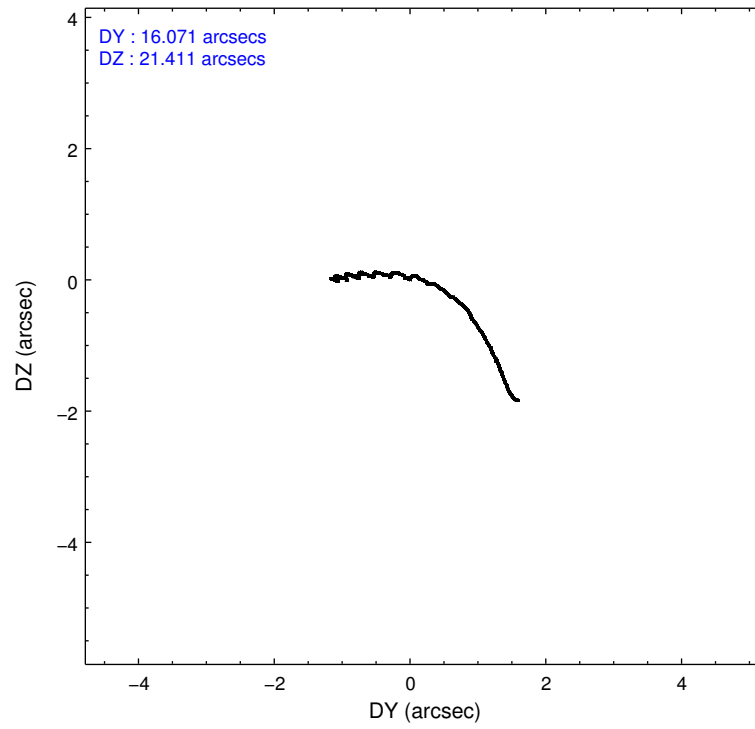
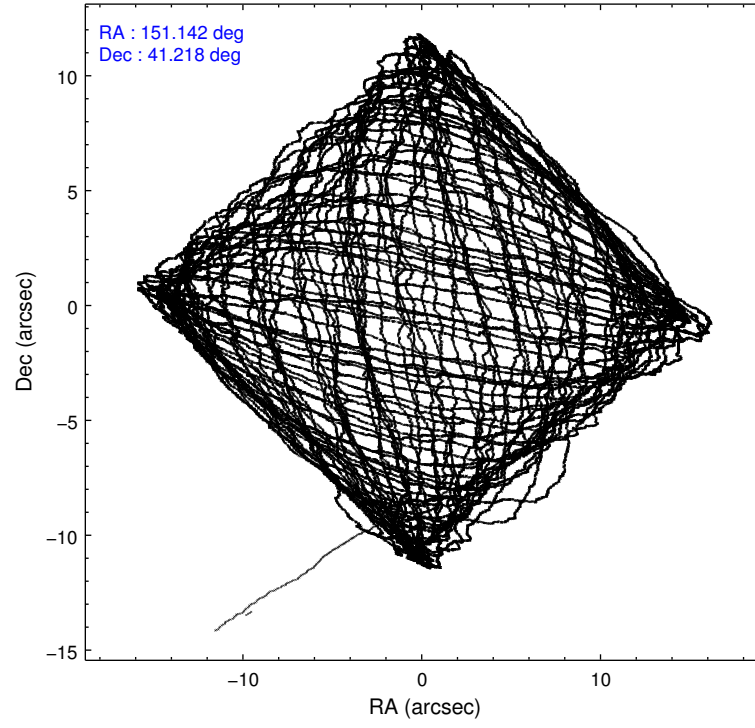
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	254649	237810	259964	328812	332240
rejected events	225965	211139	230631	185504	244026
rejected %	88%	88%	88%	56%	73%

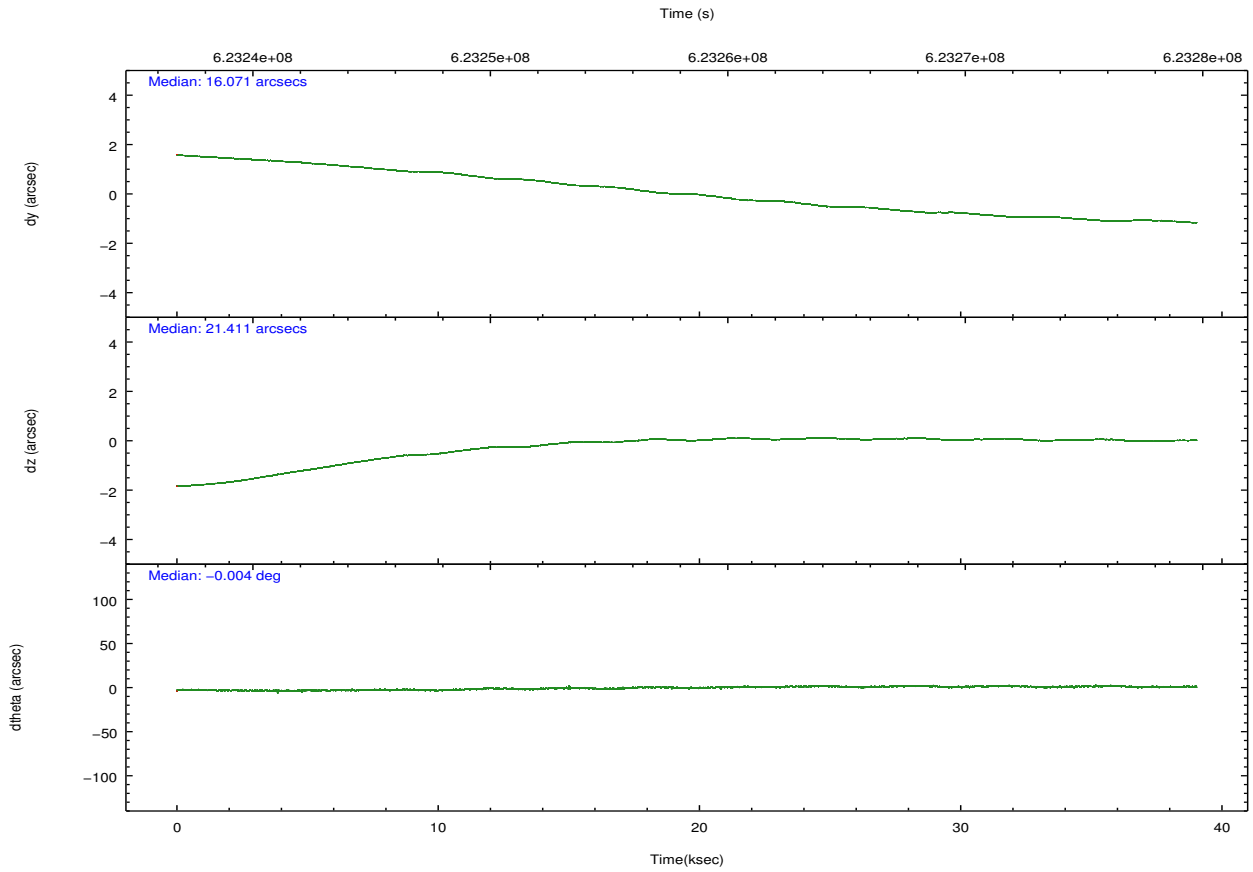
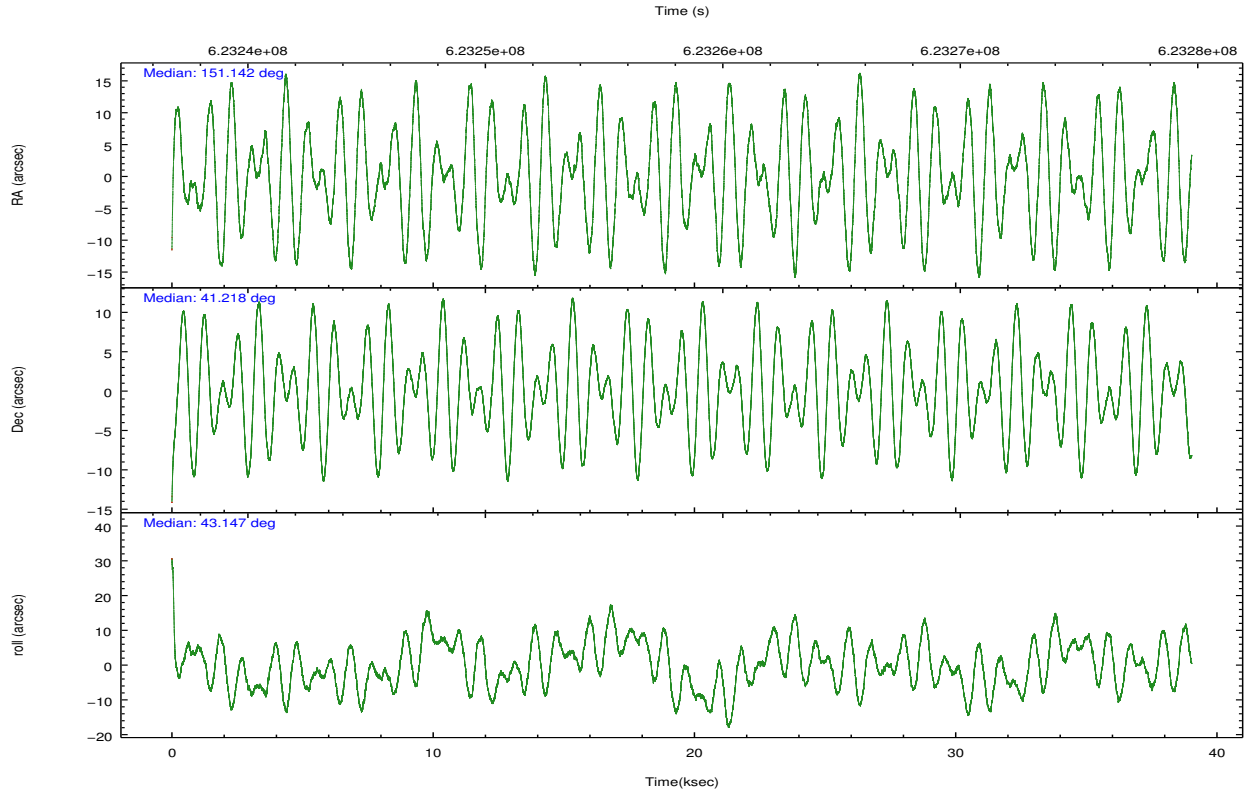
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	11119	9664	9557	12637	25558
	4%	4%	3%	3%	7%
grade 1 events	141	145	130	450	284
	0%	0%	0%	0%	0%
grade 2 events	6701	5893	7143	30286	21277
	2%	2%	2%	9%	6%
grade 3 events	2701	2699	2784	11604	9012
	1%	1%	1%	3%	2%
grade 4 events	2801	2762	2699	11385	8333
	1%	1%	1%	3%	2%
grade 5 events	9743	12024	11838	32550	18021
	3%	5%	4%	9%	5%
grade 6 events	5364	5656	7155	77419	24039
	2%	2%	2%	23%	7%
grade 7 events	216079	198967	218658	152481	225716
	84%	83%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	151.132285	151.1423893123345	CCD I2 on	O1	Y
[deg] Pointing Dec	41.191848	41.21820511857054	CCD I3 on	O2	Y
[deg] Pointing Roll	43.006730	43.15670333222806	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	623238947.184000	623237596.65018	CCD S5 on	N	N
Observation start date	2017-10-01T09:54:38	2017-10-01T09:33:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	623277815.184000	623278679.67759	On-chip summing requested	N	N
Observation end date	2017-10-01T20:42:26	2017-10-01T20:57:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



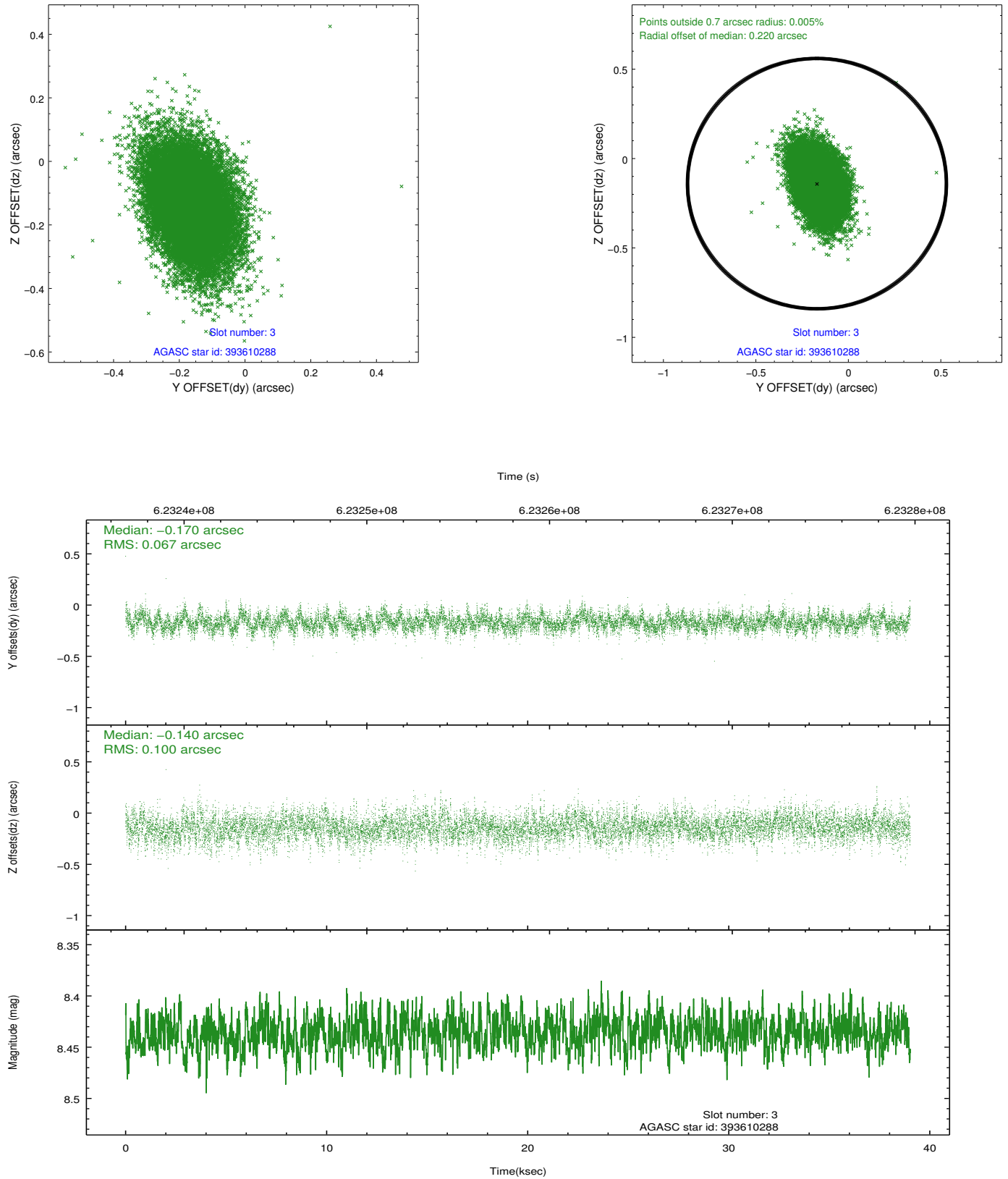


Slot Statistics

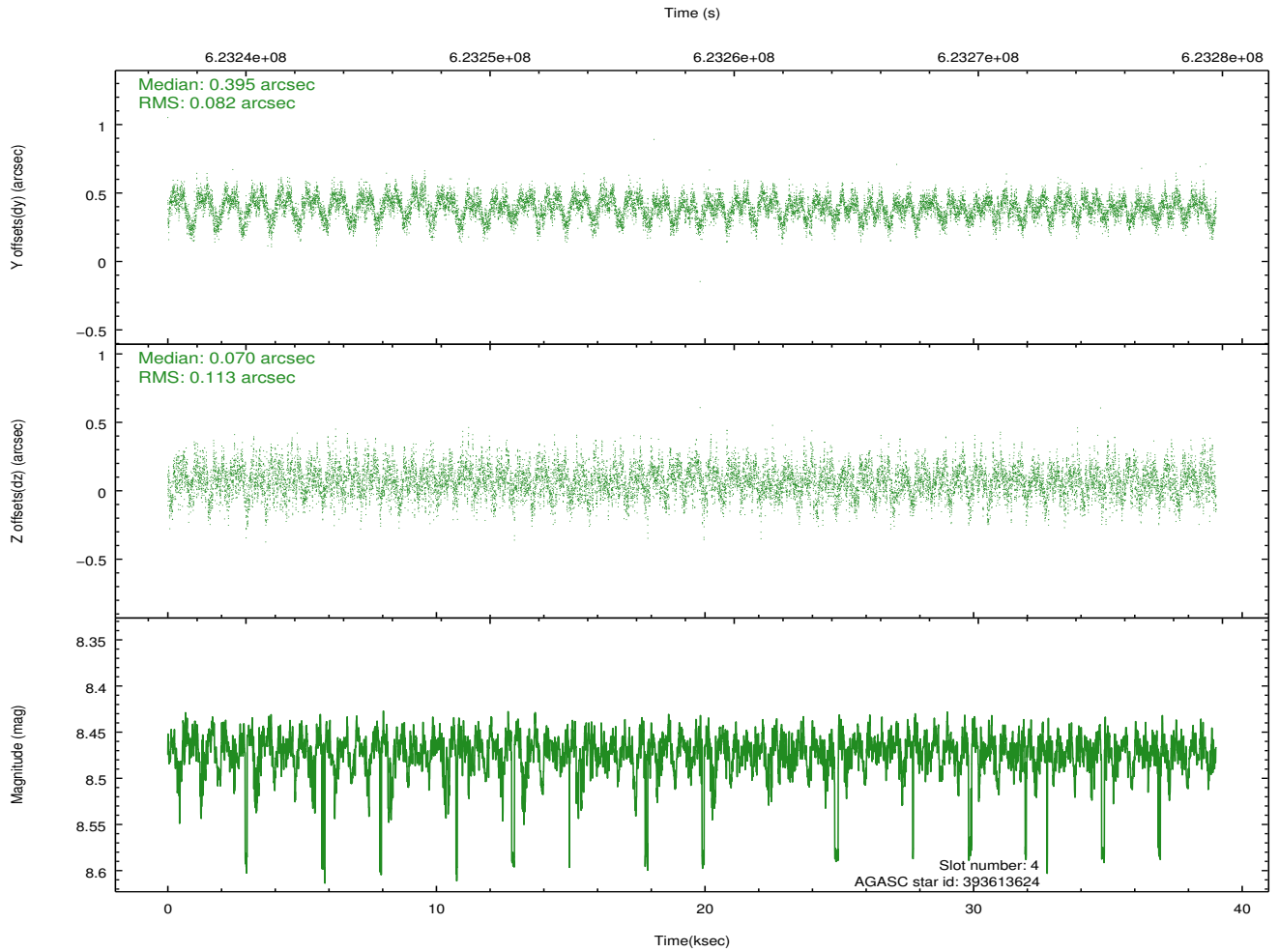
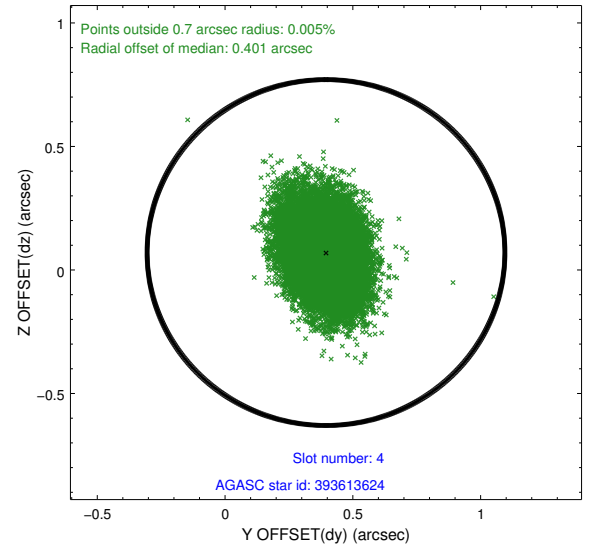
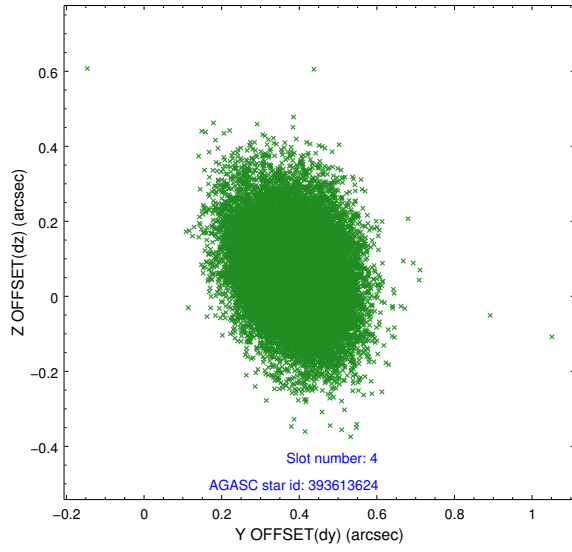
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	9521	-0.214	-0.103	0.018	0.029	0.000000	0.000000	-769.33	-1742.70
1	FID		ACIS-S-4	7.19	9521	0.468	0.131	0.015	0.067	0.000000	0.000000	2144.61	166.02
2	FID		ACIS-S-5	7.18	9520	-0.286	-0.019	0.023	0.067	0.000000	0.000000	-1822.25	159.52
3	GUIDE	used	393610288	8.44	19034	-0.170	-0.140	0.123	0.216	151.538899	41.090404	558.43	-1016.51
4	GUIDE	used	393613624	8.47	19031	0.395	0.070	0.147	0.244	151.136661	40.665270	-1283.14	-1394.45
5	GUIDE	used	393616408	8.98	19026	-0.265	-0.275	0.150	0.252	150.713966	41.346840	-444.33	1180.91
6	GUIDE	used	393616816	8.41	19033	-0.162	0.004	0.129	0.222	151.562975	40.925077	202.78	-1498.09
7	GUIDE	used	393619280	9.34	19018	0.197	0.341	0.183	0.301	150.915222	40.640455	-1787.22	-1047.07

2.4 Star Slots

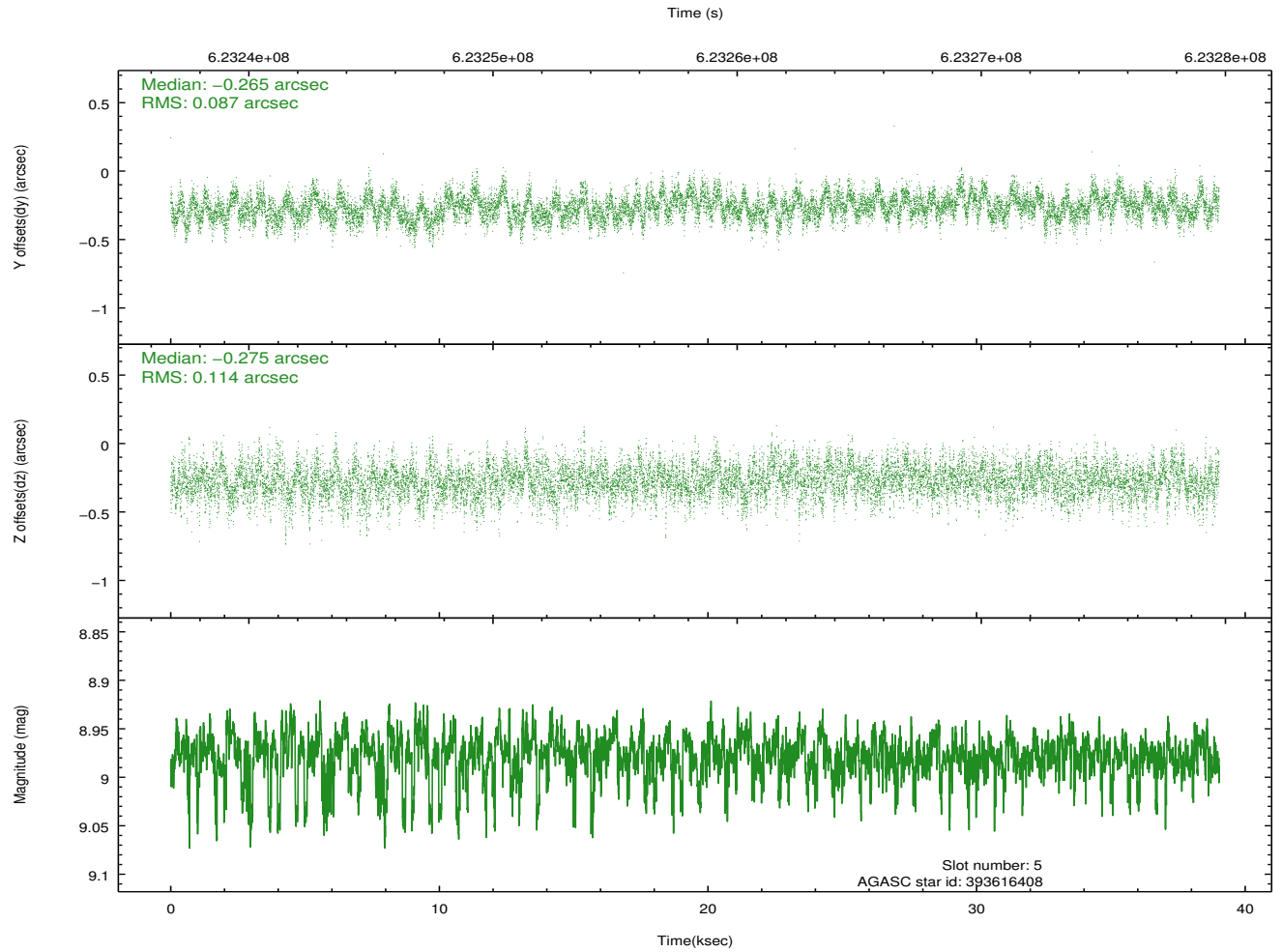
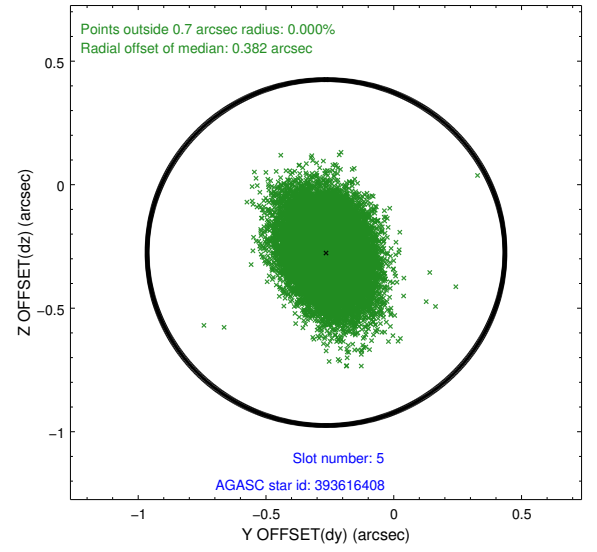
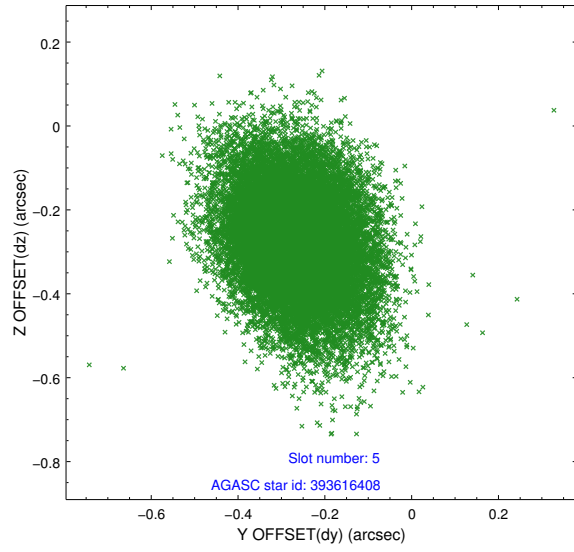
2.4.1 Slot 3



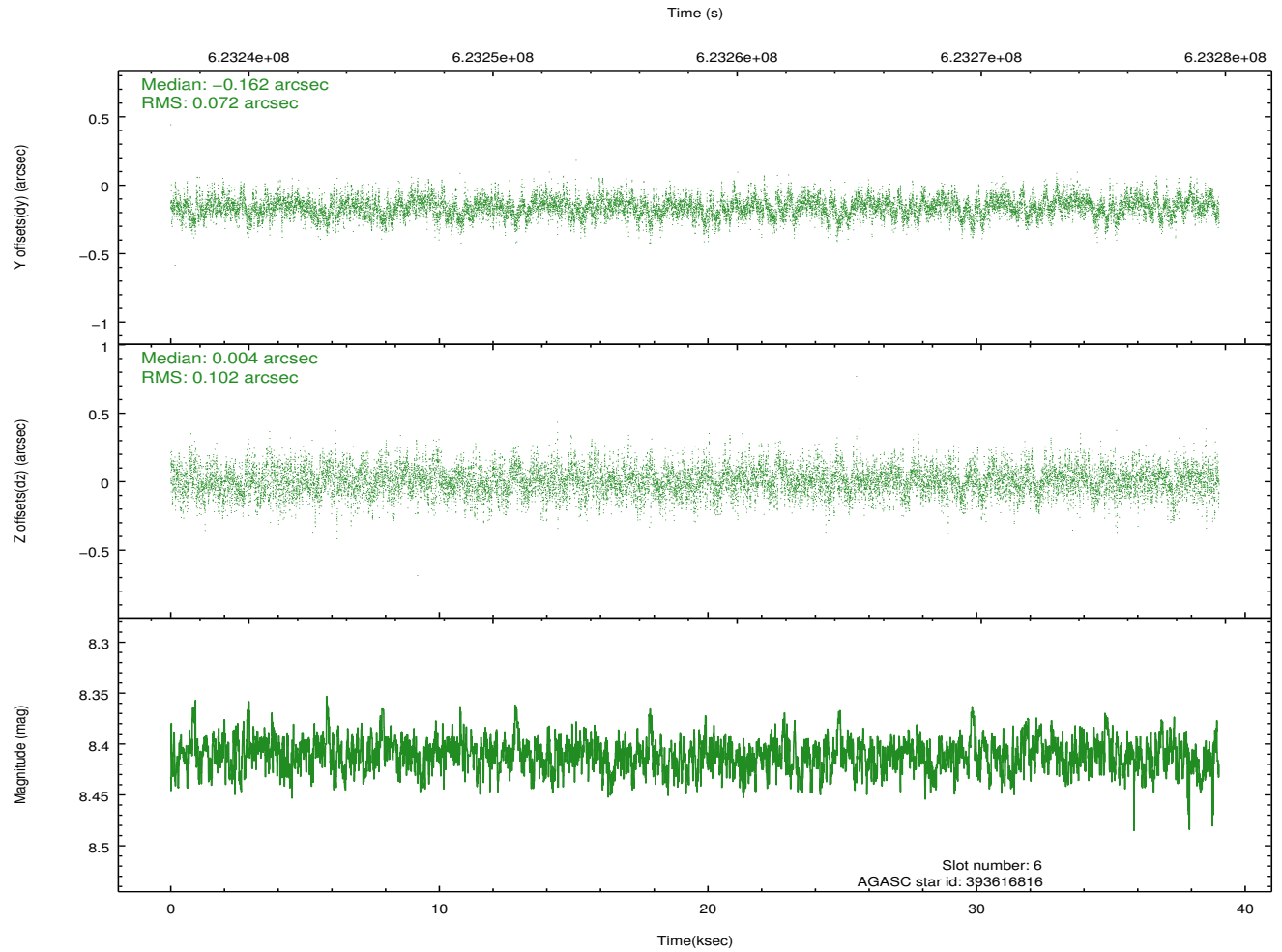
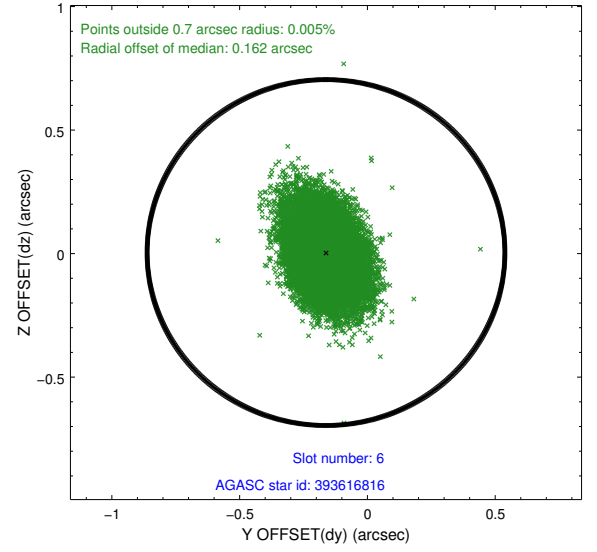
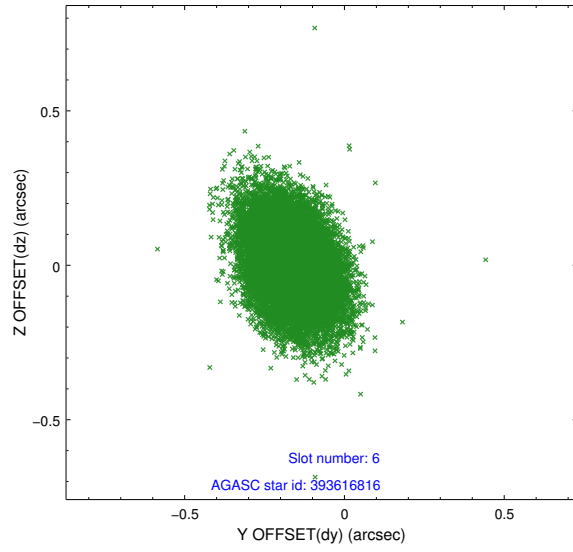
2.4.2 Slot 4



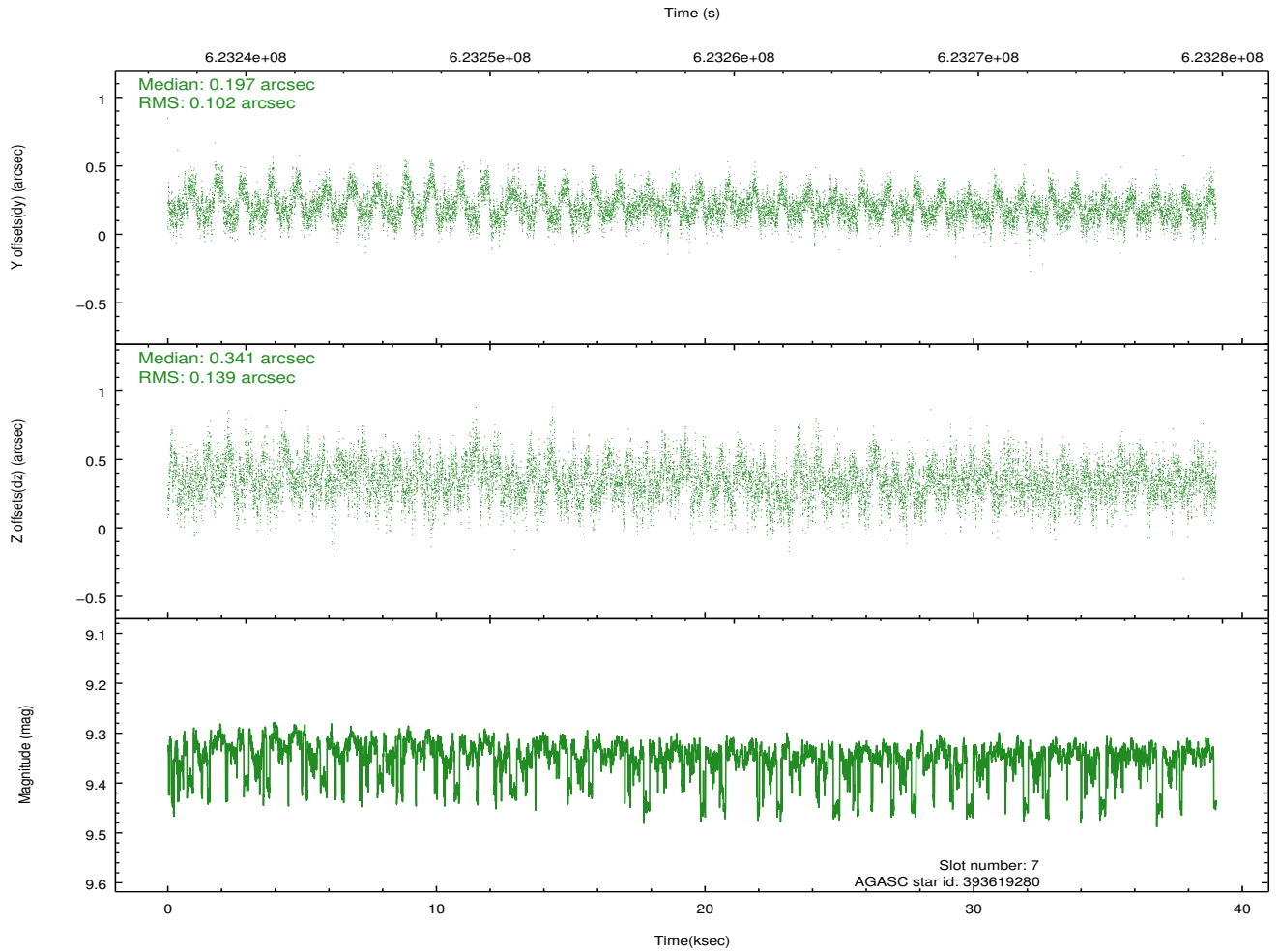
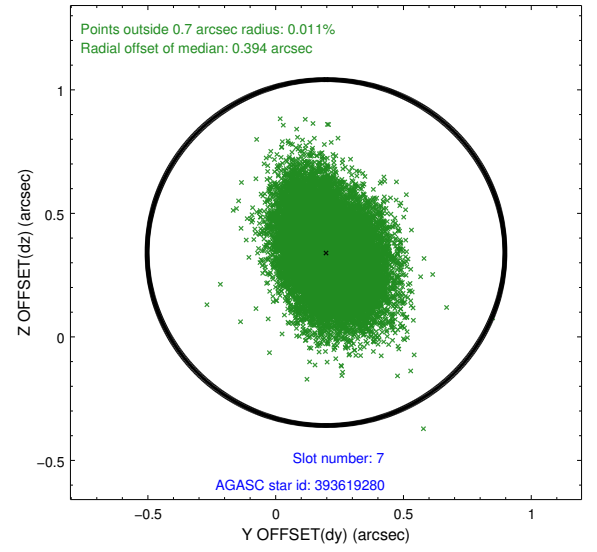
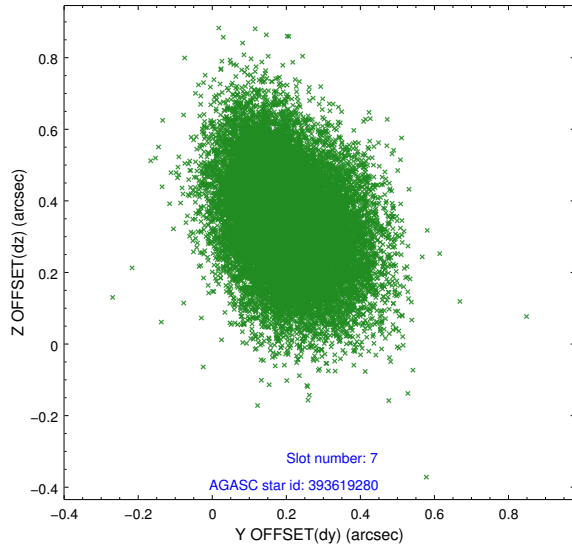
2.4.3 Slot 5



2.4.4 Slot 6

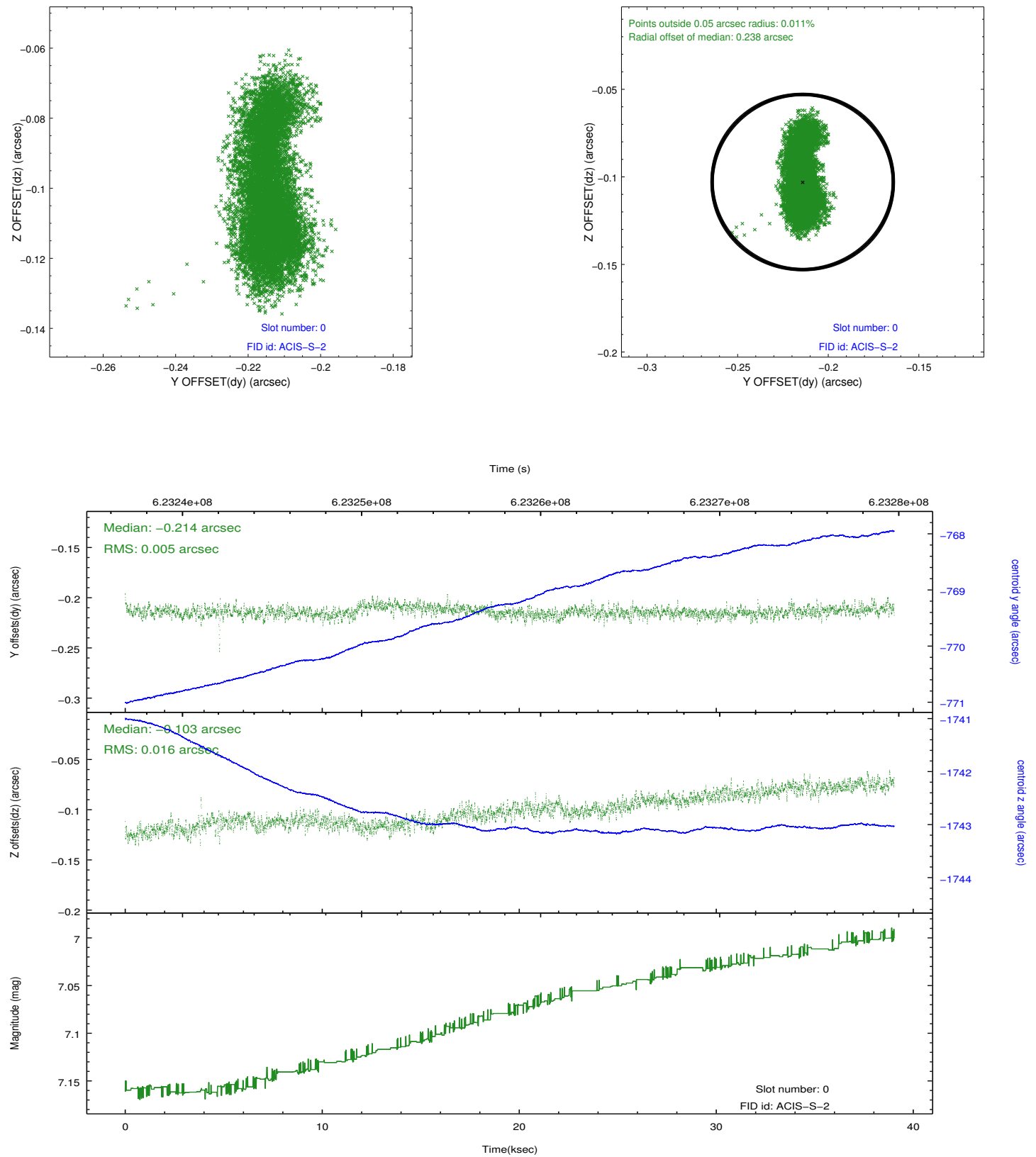


2.4.5 Slot 7

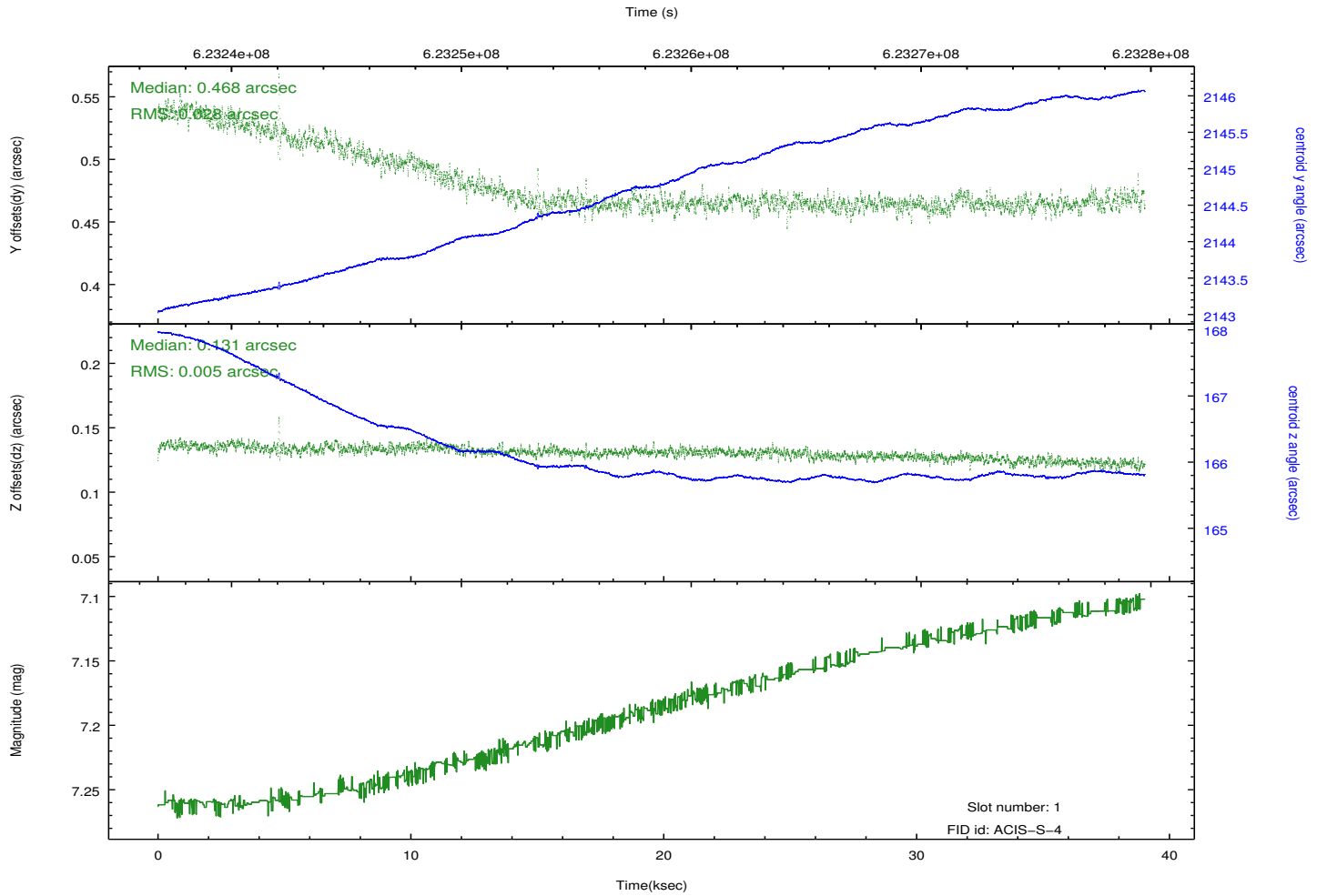
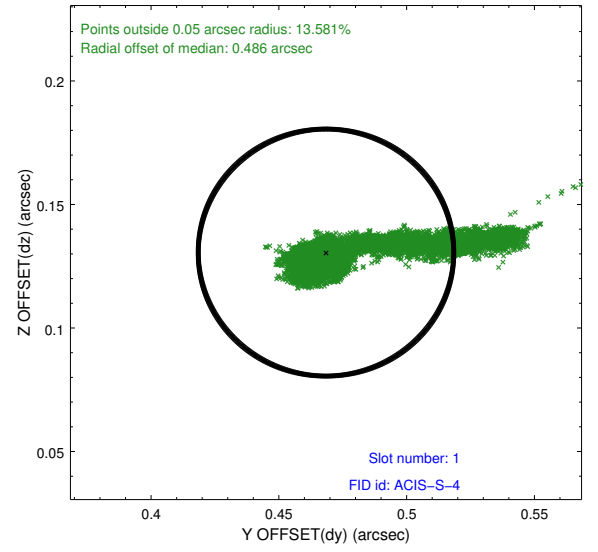
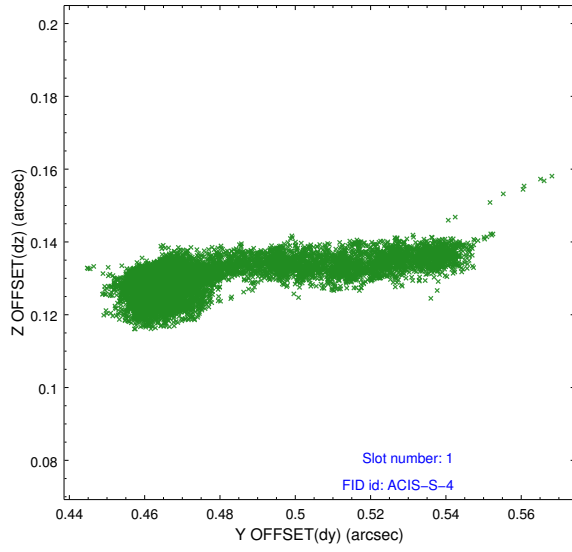


2.5 FID Slots

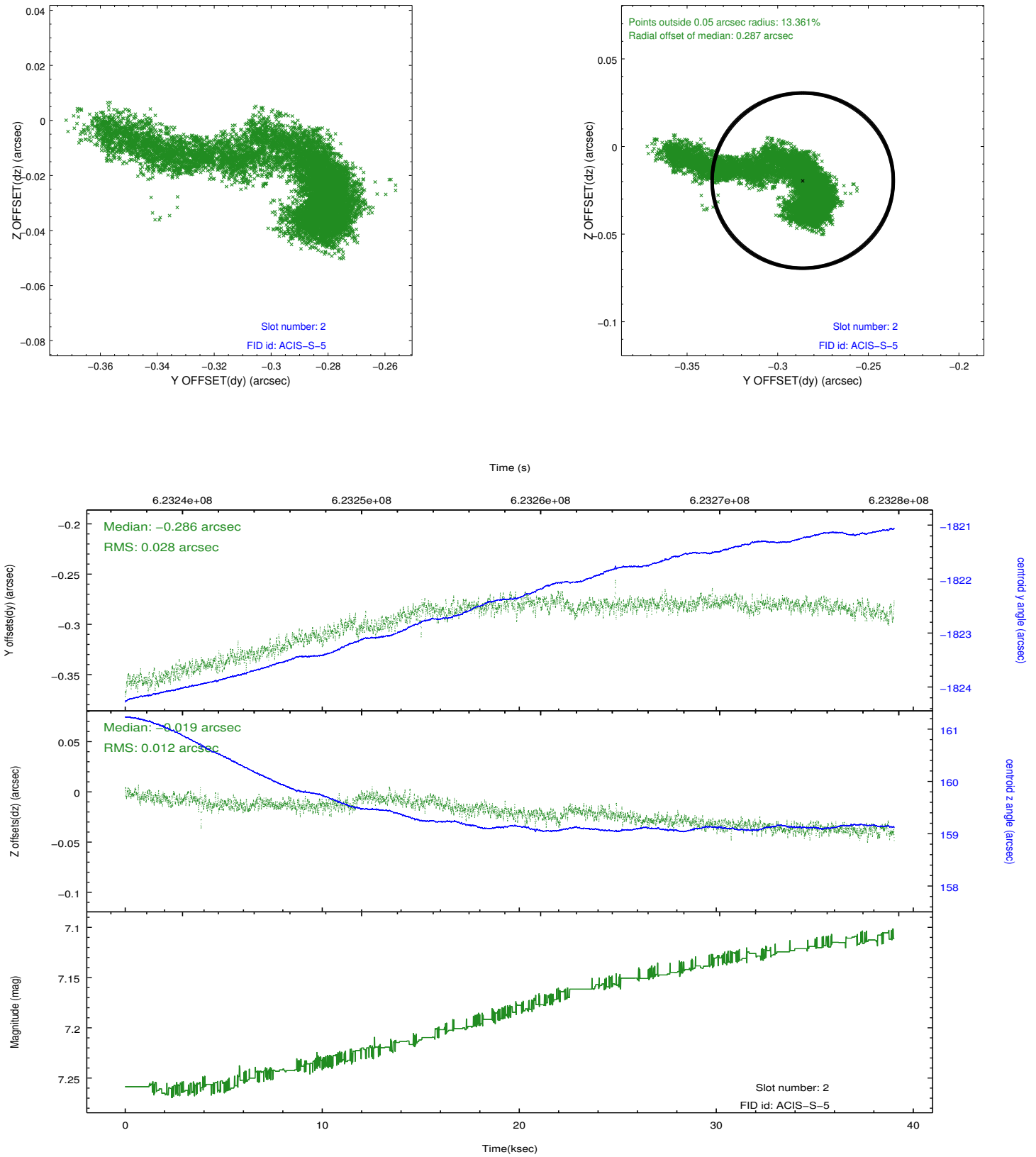
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.920500299454

A.2 Comments

Monitor constraint met, follows obsid 19634 by 97 days.