

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17129 - L2 Version 1
Chandra X-Ray Center

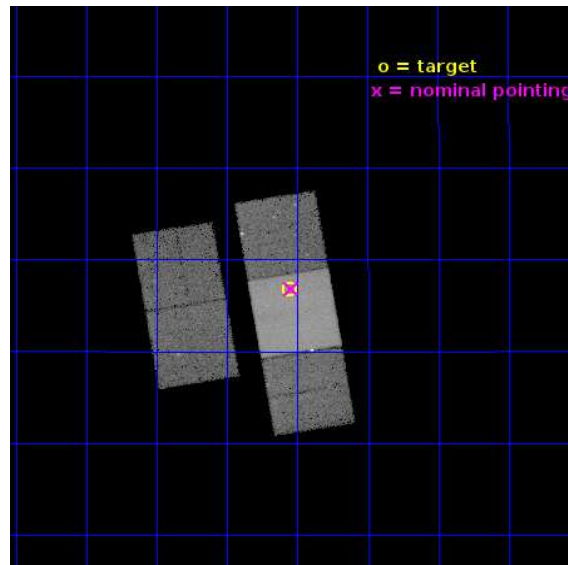
L2 Processing Date : Feb 10 2016

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1 Front

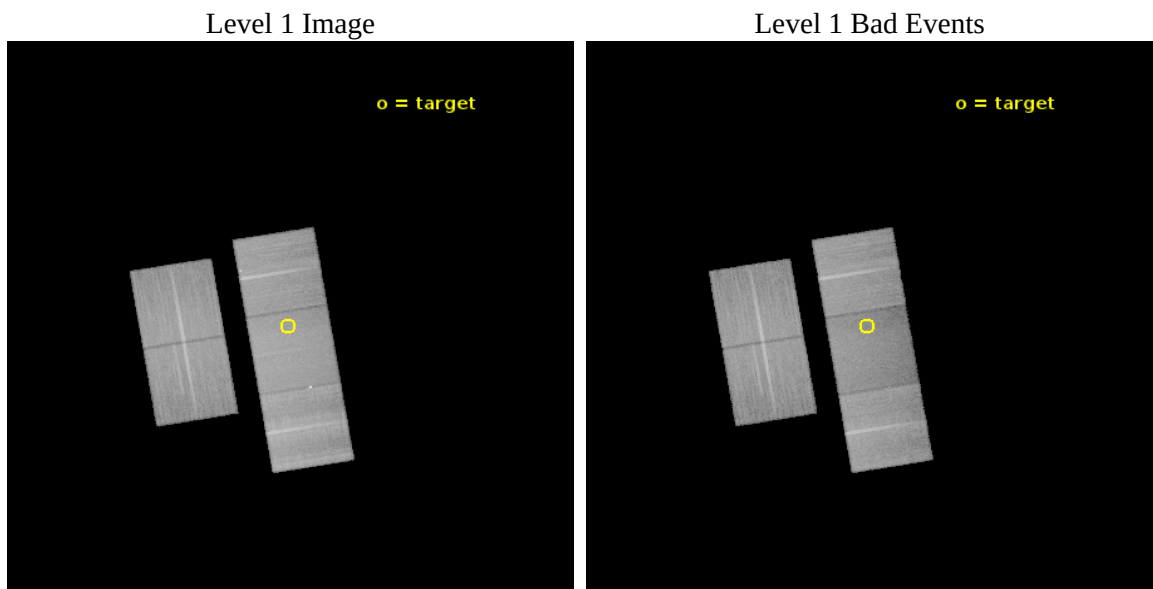
seq_num	703128	Sequence number
obs_id	17129	Observation id
title	Chandra Observation of an Ultrasoft Active Galactic Nucleus with a 3.8 hr Periodicity	Proposal title
observer	Dr Dacheng Lin	Principal investigator
object	2XMM J123103.2+110648	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.763333	Observer's specified target RA [deg]
dec_targ	11.113333	Observer's specified target Dec [deg]
ra_nom	187.76096863417	Nominal RA [deg]
dec_nom	11.113898851531	Nominal Dec [deg]
roll_nom	80.514813016149	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40058.137311697	Sum of GTIs [s]
livetime	39534.748257348	Livetime [s]
ontime2	40057.973151684	Sum of GTIs [s]
ontime3	40058.05523169	Sum of GTIs [s]
ontime6	40058.096271753	Sum of GTIs [s]
ontime7	40058.137311697	Sum of GTIs [s]
ontime8	40058.014191747	Sum of GTIs [s]
l2events	213492	Number of level 2 events



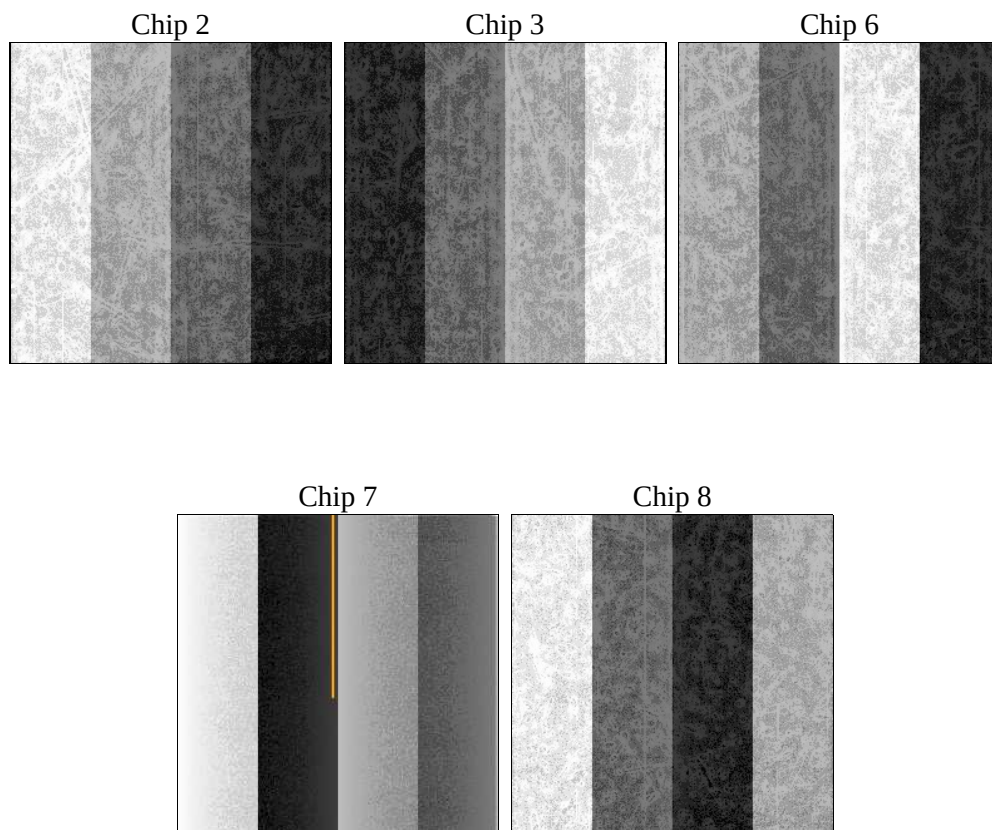
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	40058.137311697	Sum of GTIs [s]
caldsver	4.7.0	 	ontime2	40057.973151684	Sum of GTIs [s]
date	2016-02-11T01:45:34	Date and time of file creation	ontime3	40058.05523169	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	40058.096271753	Sum of GTIs [s]
			ontime7	40058.137311697	Sum of GTIs [s]
			ontime8	40058.014191747	Sum of GTIs [s]
			l1events	1247714	Number of level 1 events

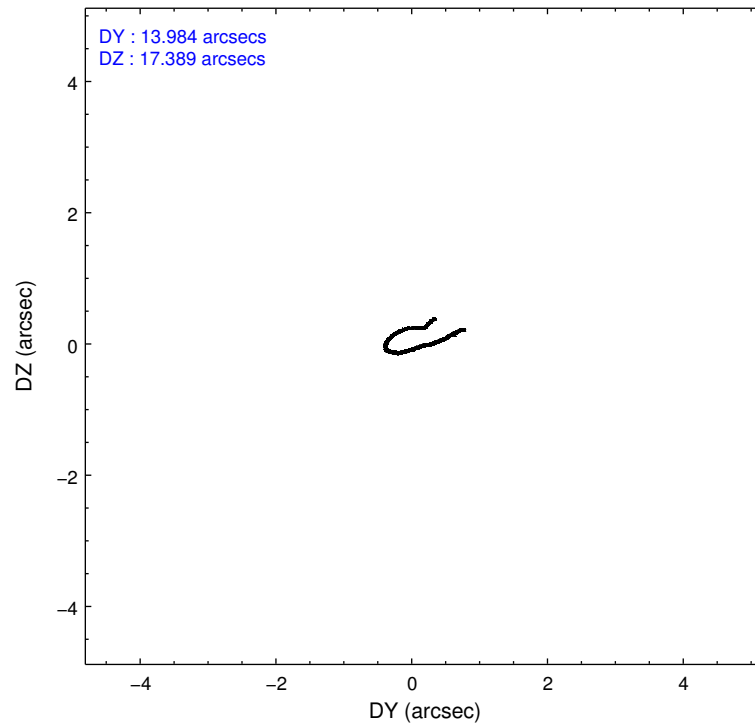
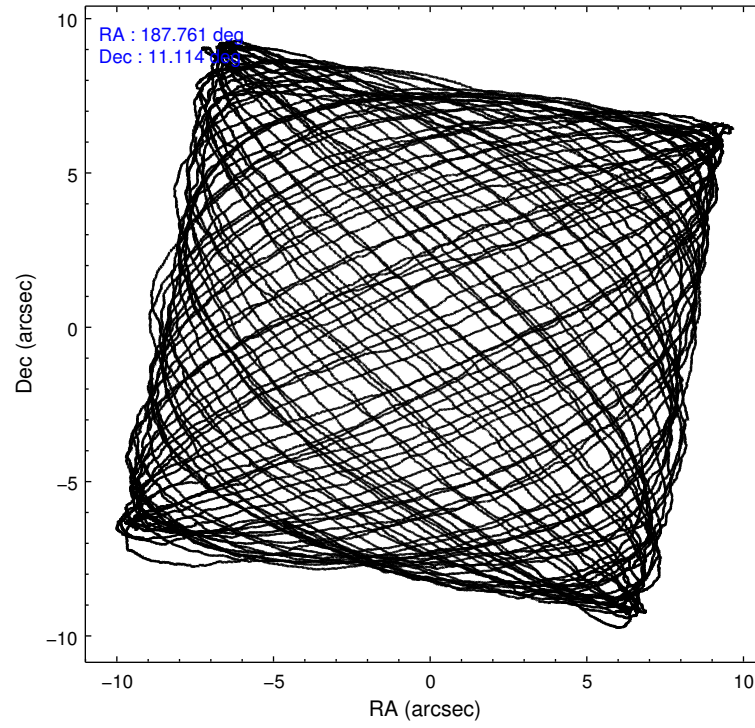
2.1.4 Events

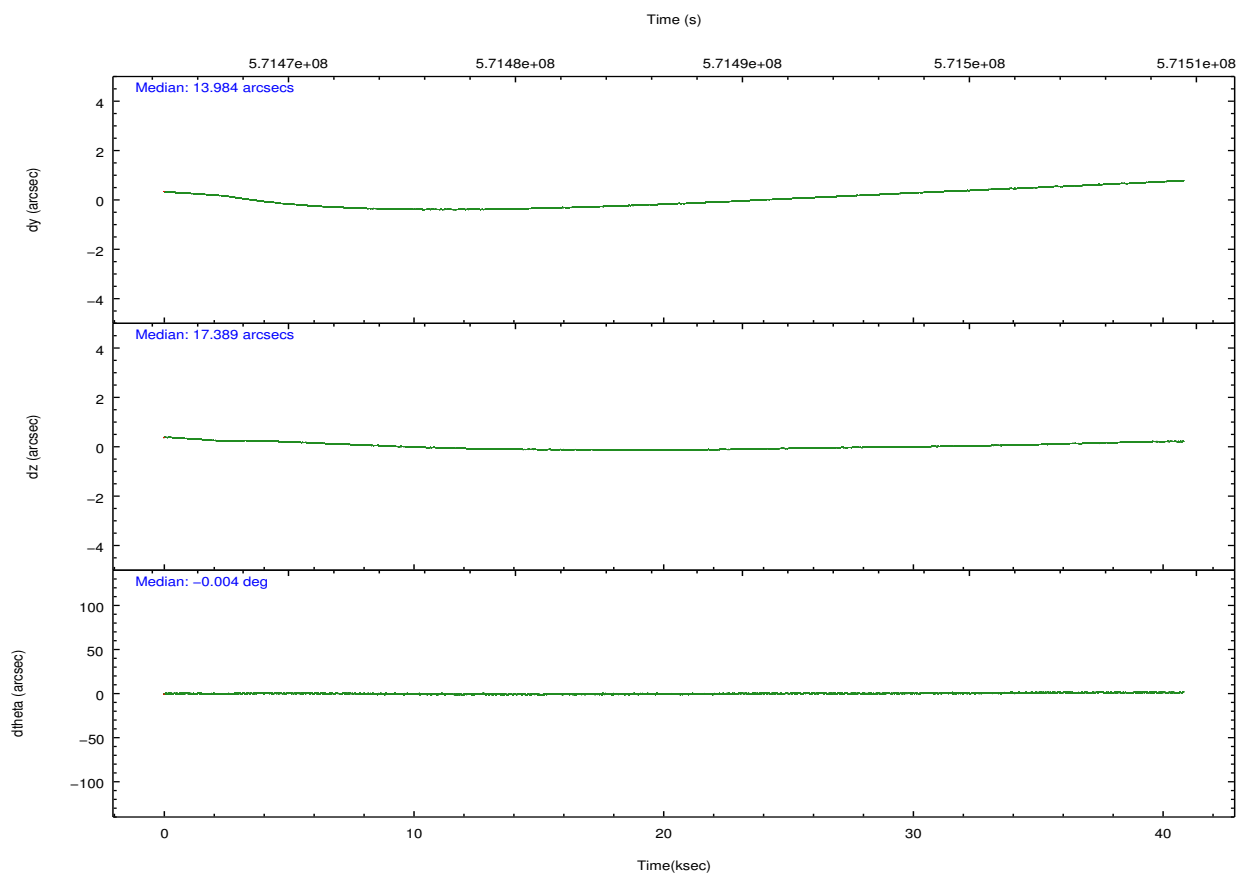
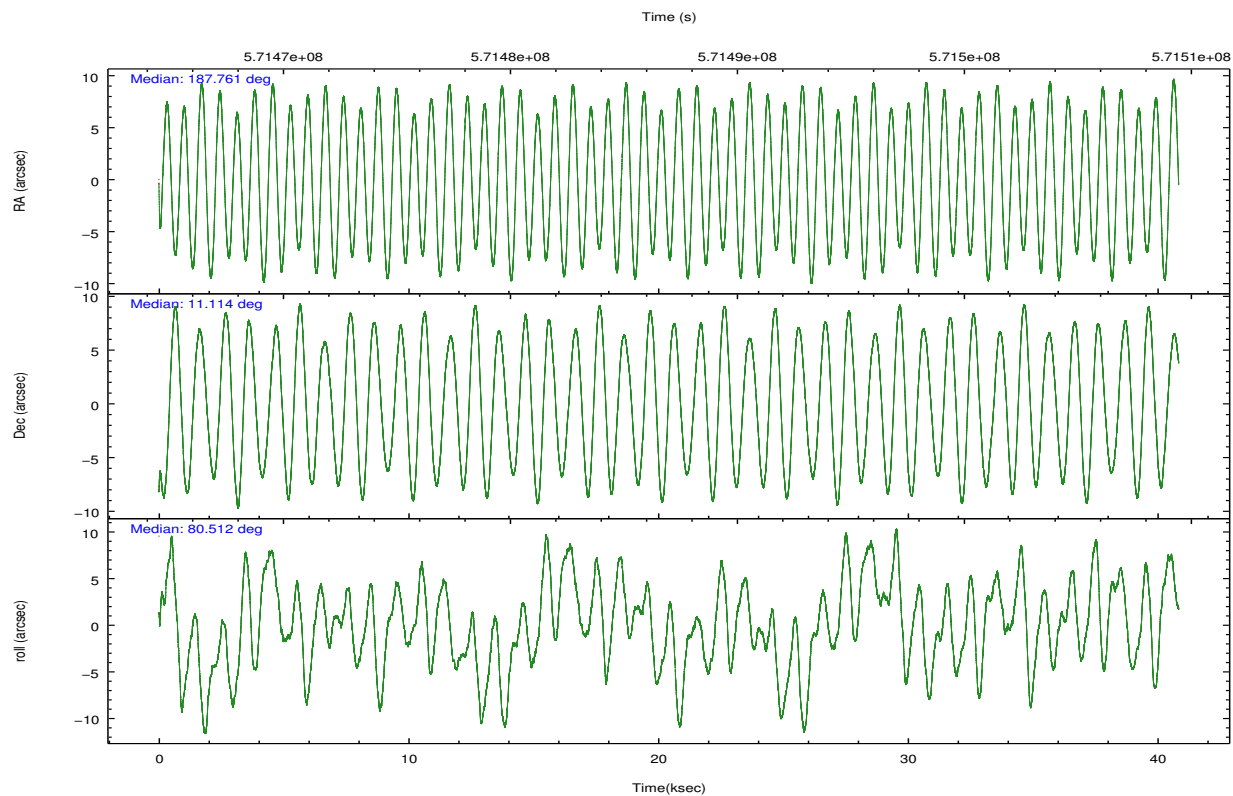
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	232723	222148	238662	261284	292897	grade 0 events	10096	9724	11020	11716	23657
rejected events	207905	197617	209790	139842	214104		4%	4%	4%	4%	8%
rejected %	89%	88%	87%	53%	73%	grade 1 events	107	119	113	389	228
							0%	0%	0%	0%	0%
						grade 2 events	5529	5127	6769	27019	18982
							2%	2%	2%	10%	6%
						grade 3 events	2399	2555	2555	9579	7912
							1%	1%	1%	3%	2%
						grade 4 events	2484	2377	2497	9321	7404
							1%	1%	1%	3%	2%
						grade 5 events	7313	9367	9263	25444	14496
							3%	4%	3%	9%	4%
						grade 6 events	4314	4750	6041	63827	20895
							1%	2%	2%	24%	7%
						grade 7 events	200481	188129	200404	113989	199323
							86%	84%	83%	43%	68%

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	187.771108	187.7609686341676	CCD I2 on	Y	Y
[deg] Pointing Dec	11.088327	11.11389885153142	CCD I3 on	O1	Y
[deg] Pointing Roll	80.356235	80.51481301614857	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	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)	571467385.184000	571465513.56203	CCD S5 on	N	N
Observation start date	2016-02-10T04:55:17	2016-02-10T04:25:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	571507385.184000	571508058.23944	On-chip summing requested	N	N
Observation end date	2016-02-10T16:01:57	2016-02-10T16:14:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



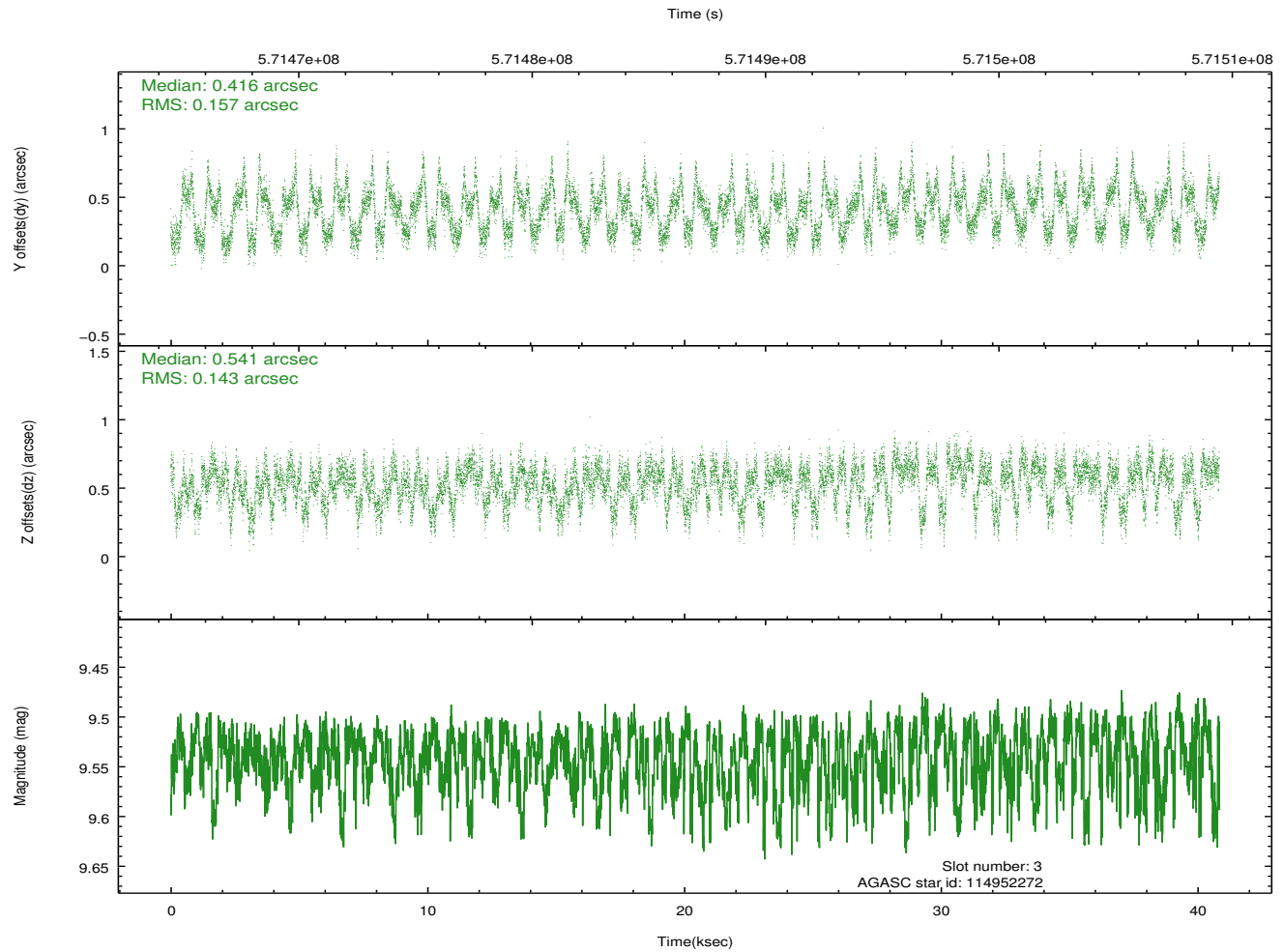
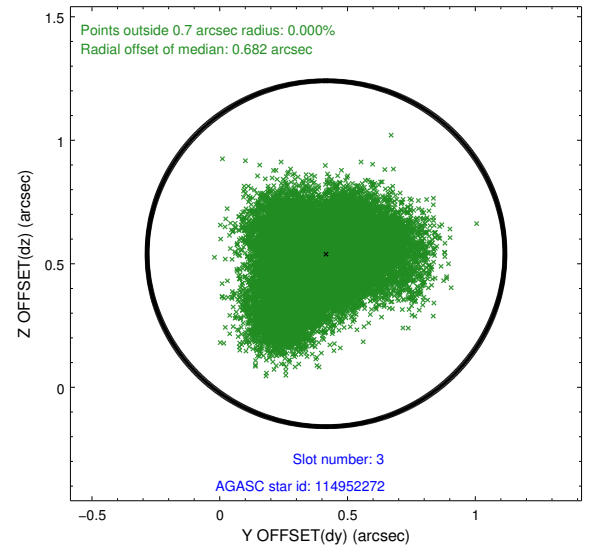
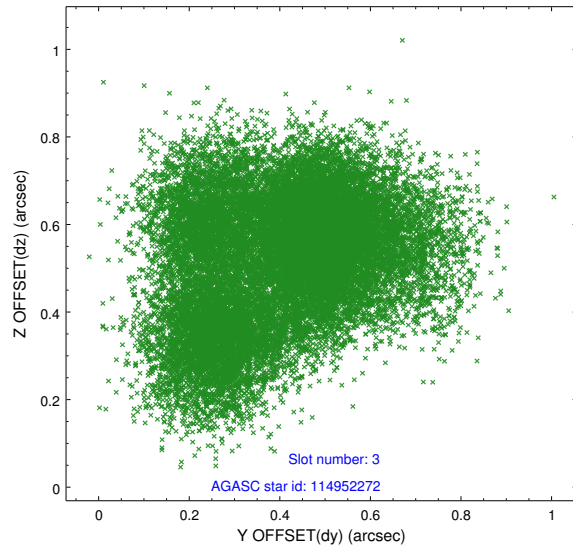


Slot Statistics

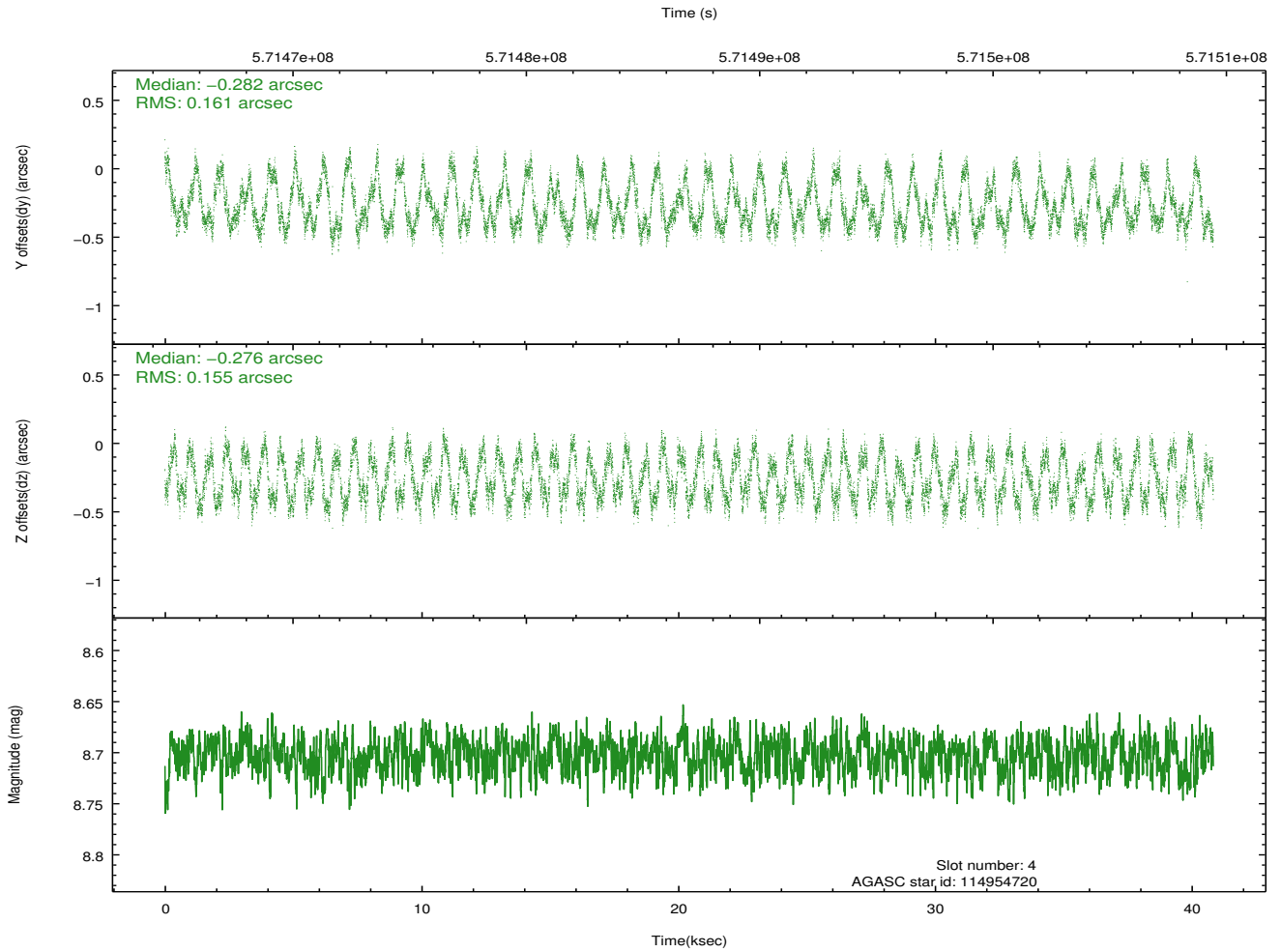
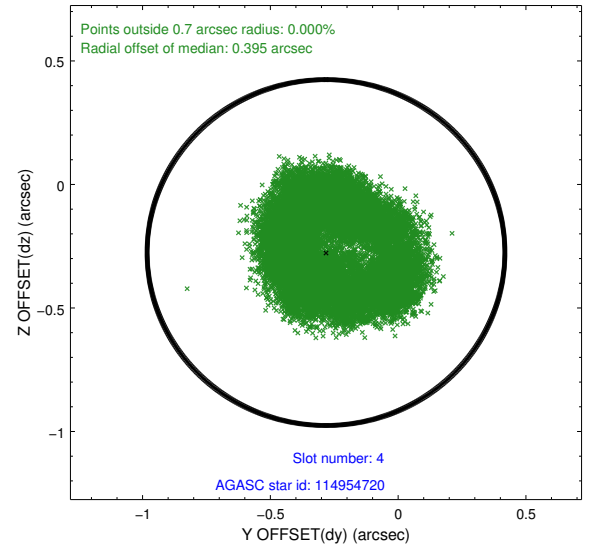
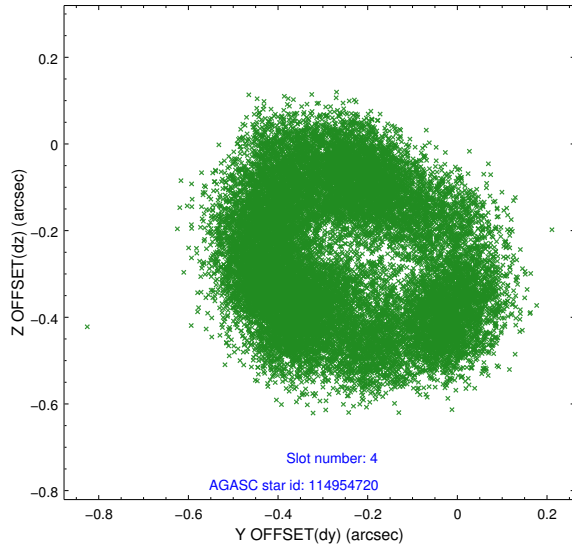
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	9962	-0.123	-0.115	0.016	0.028	0.000000	0.000000	-767.12	-1738.97
1	FID		ACIS-S-4	7.22	9962	0.391	0.091	0.012	0.020	0.000000	0.000000	2146.69	169.68
2	FID		ACIS-S-5	7.24	9962	-0.298	0.033	0.012	0.022	0.000000	0.000000	-1820.10	163.34
3	GUIDE	used	114952272	9.54	19902	0.416	0.541	0.231	0.358	188.040724	10.470216	-2032.79	-1312.94
4	GUIDE	used	114954720	8.70	19908	-0.282	-0.276	0.247	0.338	187.384636	11.492566	1207.29	1588.36
5	GUIDE	used	114956608	9.61	19889	-0.262	-0.097	0.228	0.320	187.452443	11.725979	2074.69	1493.35
6	GUIDE	used	114957272	8.84	19905	0.006	-0.165	0.141	0.225	187.367706	11.138889	-58.11	1436.05
7	GUIDE	used	114956848	10.03	19894	0.110	0.005	0.310	0.522	188.460946	11.646565	2391.28	-2060.20

2.4 Star Slots

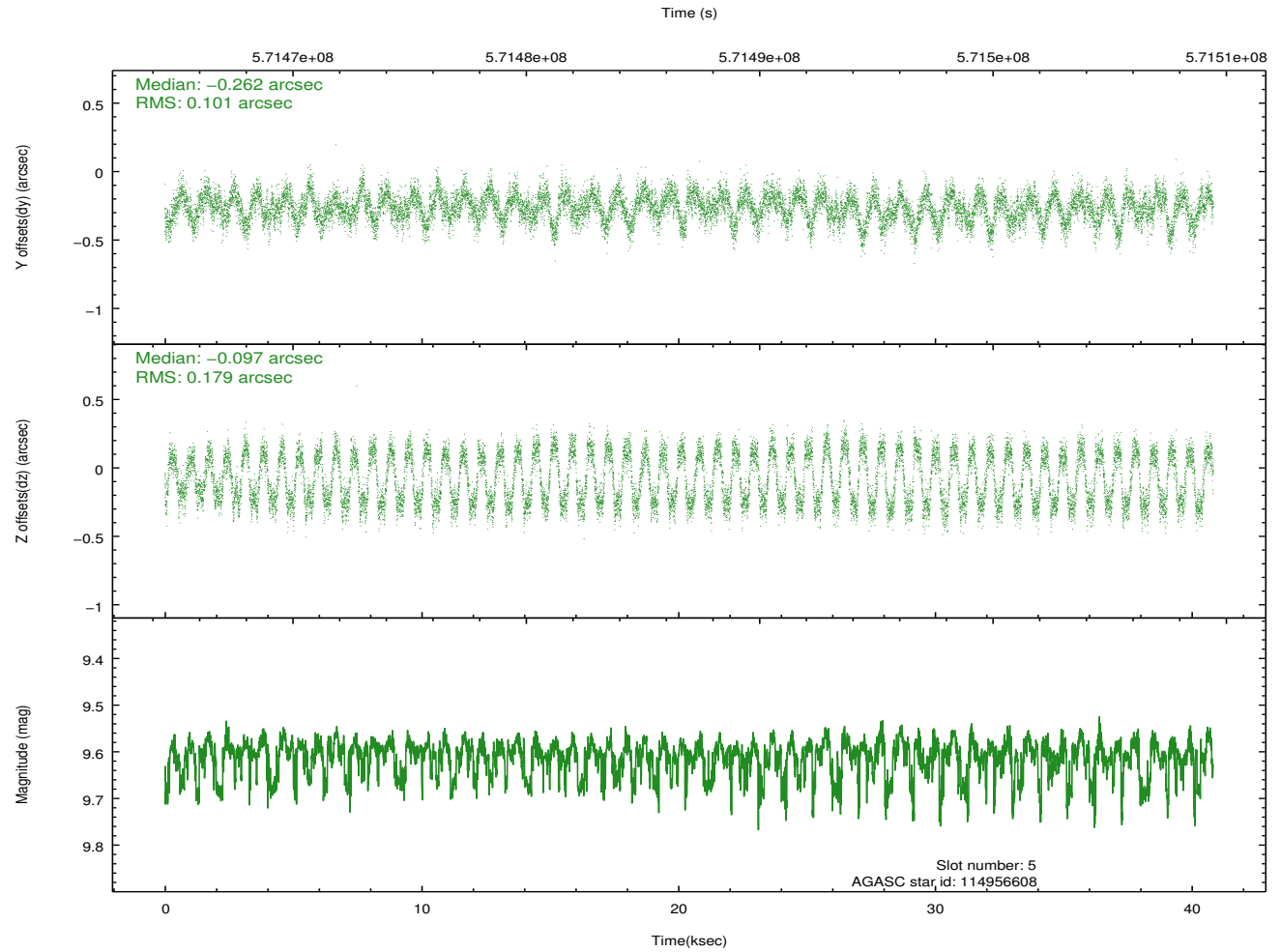
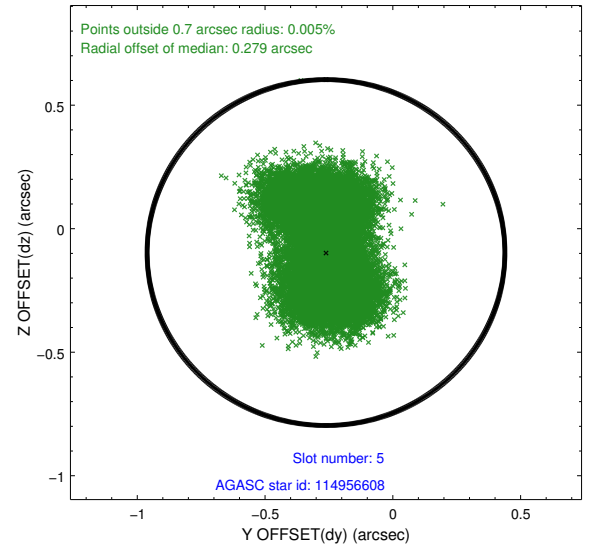
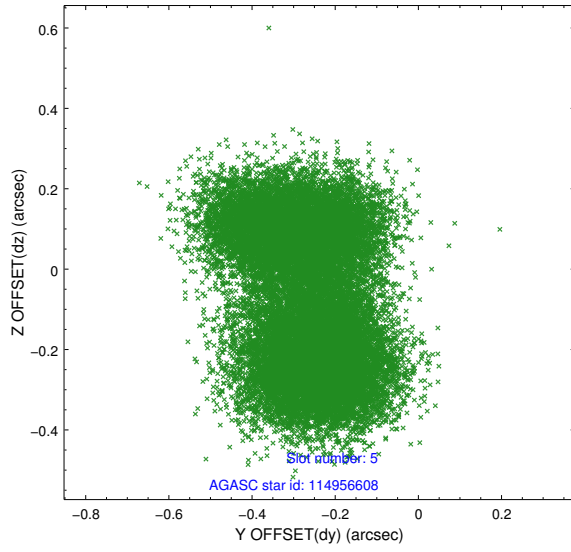
2.4.1 Slot 3



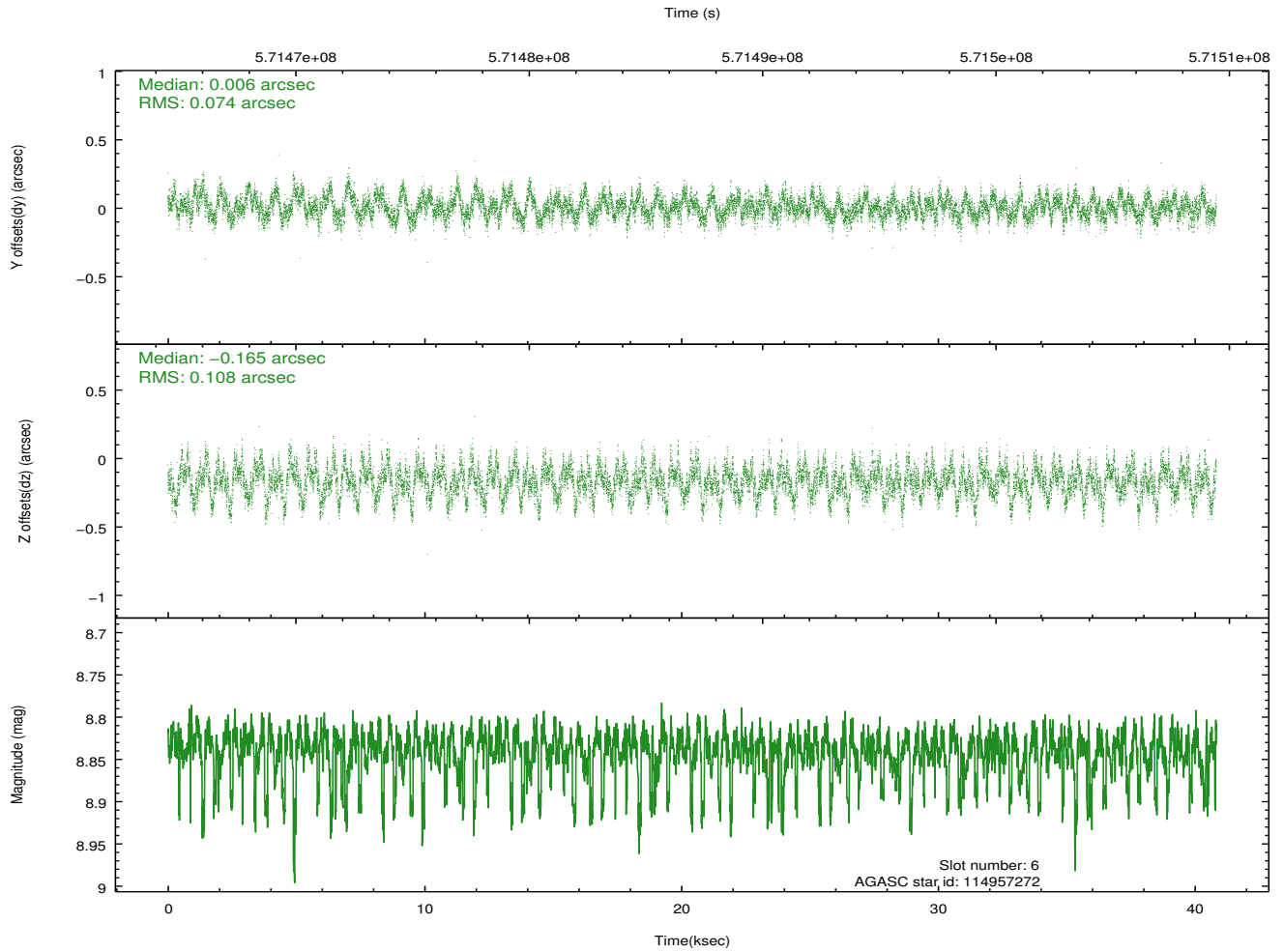
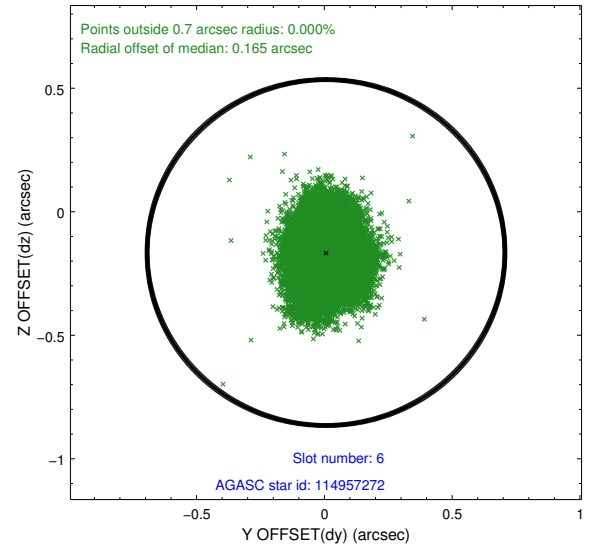
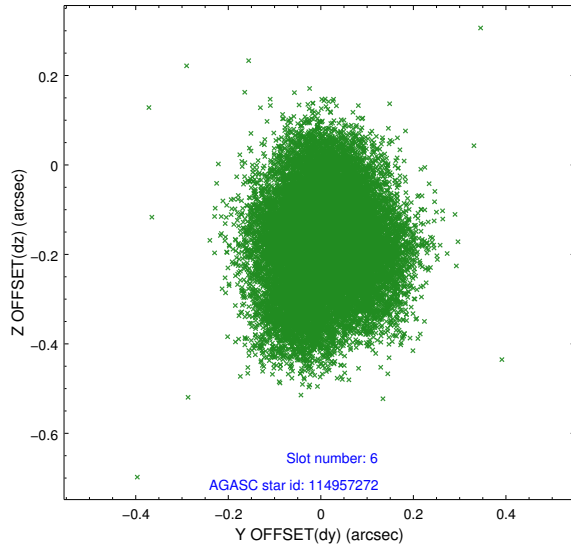
2.4.2 Slot 4



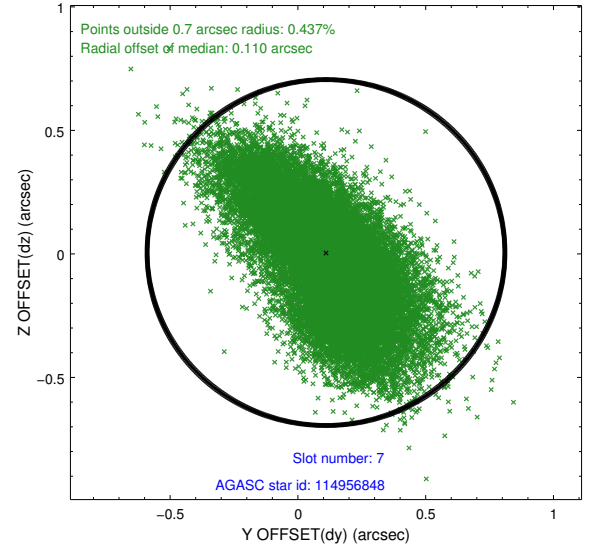
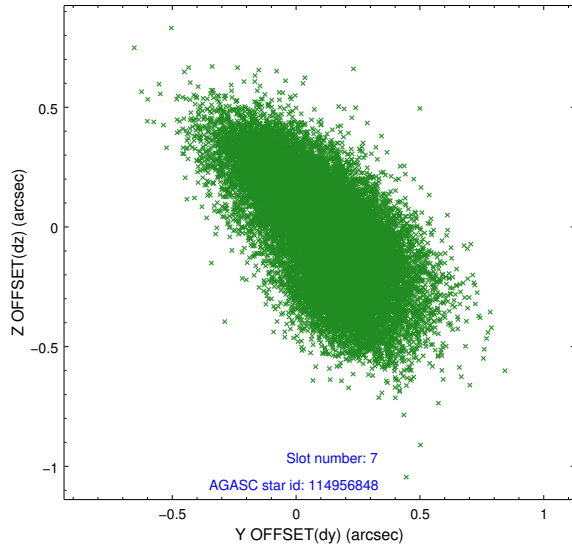
2.4.3 Slot 5



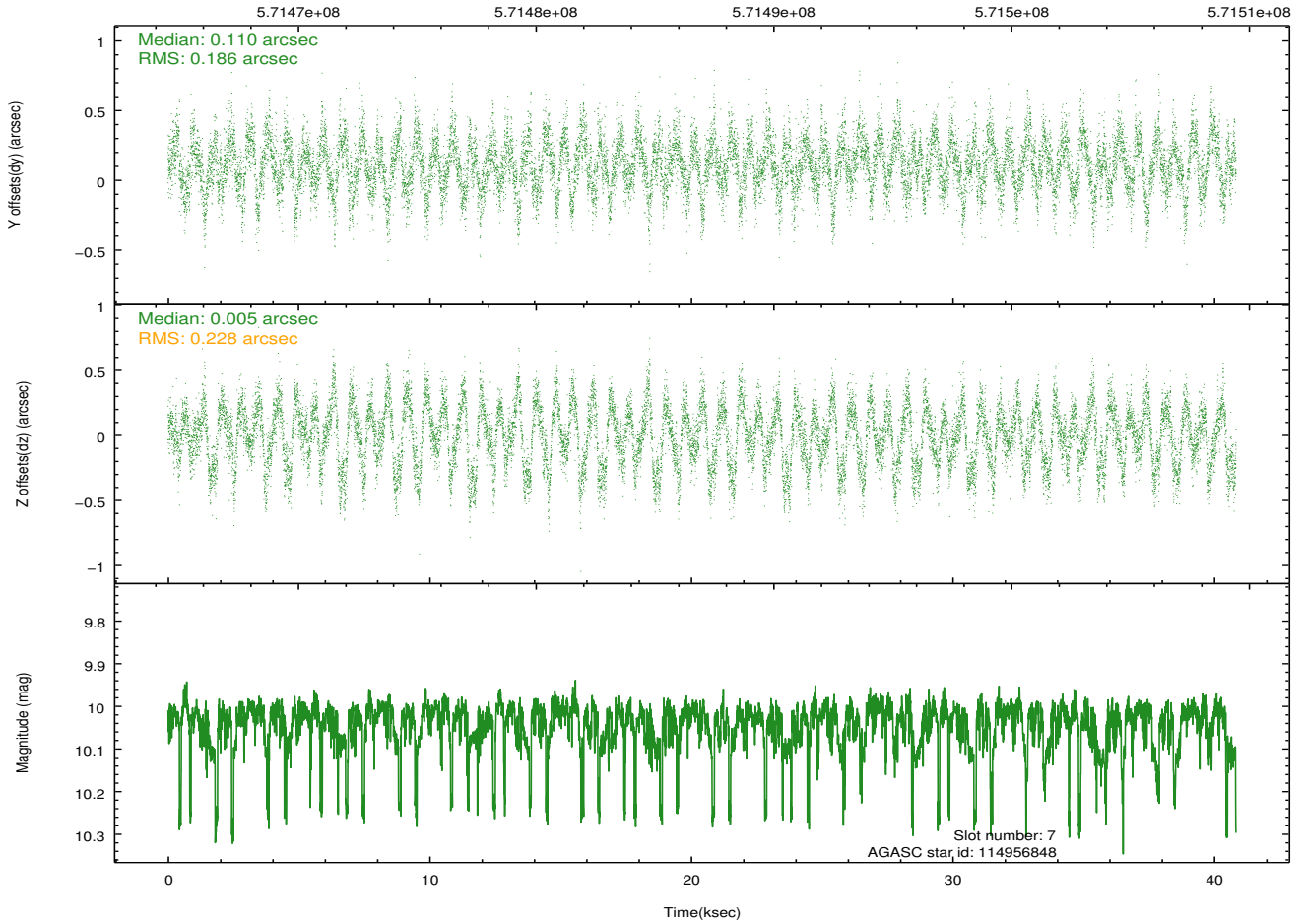
2.4.4 Slot 6



2.4.5 Slot 7

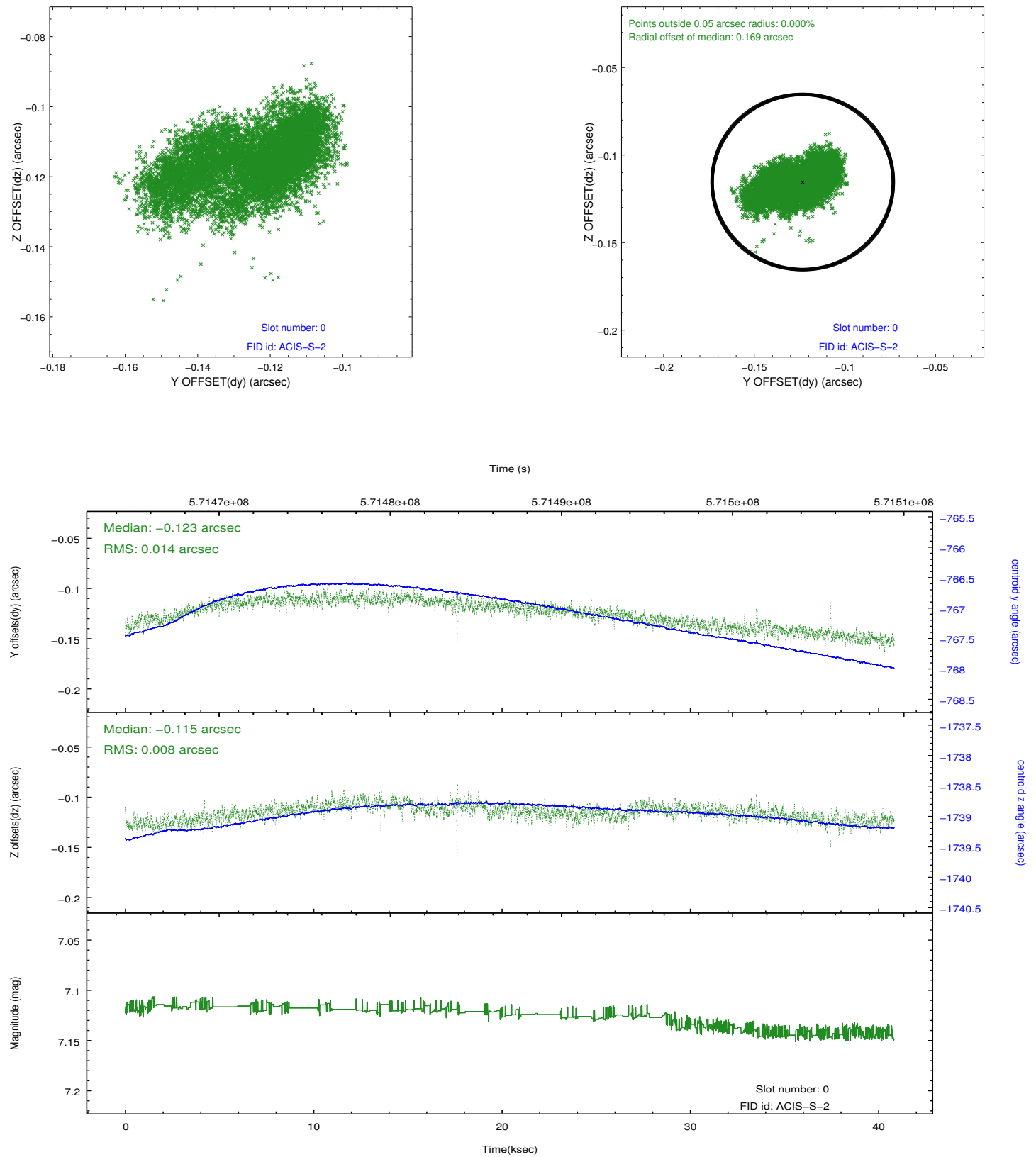


Time (s)

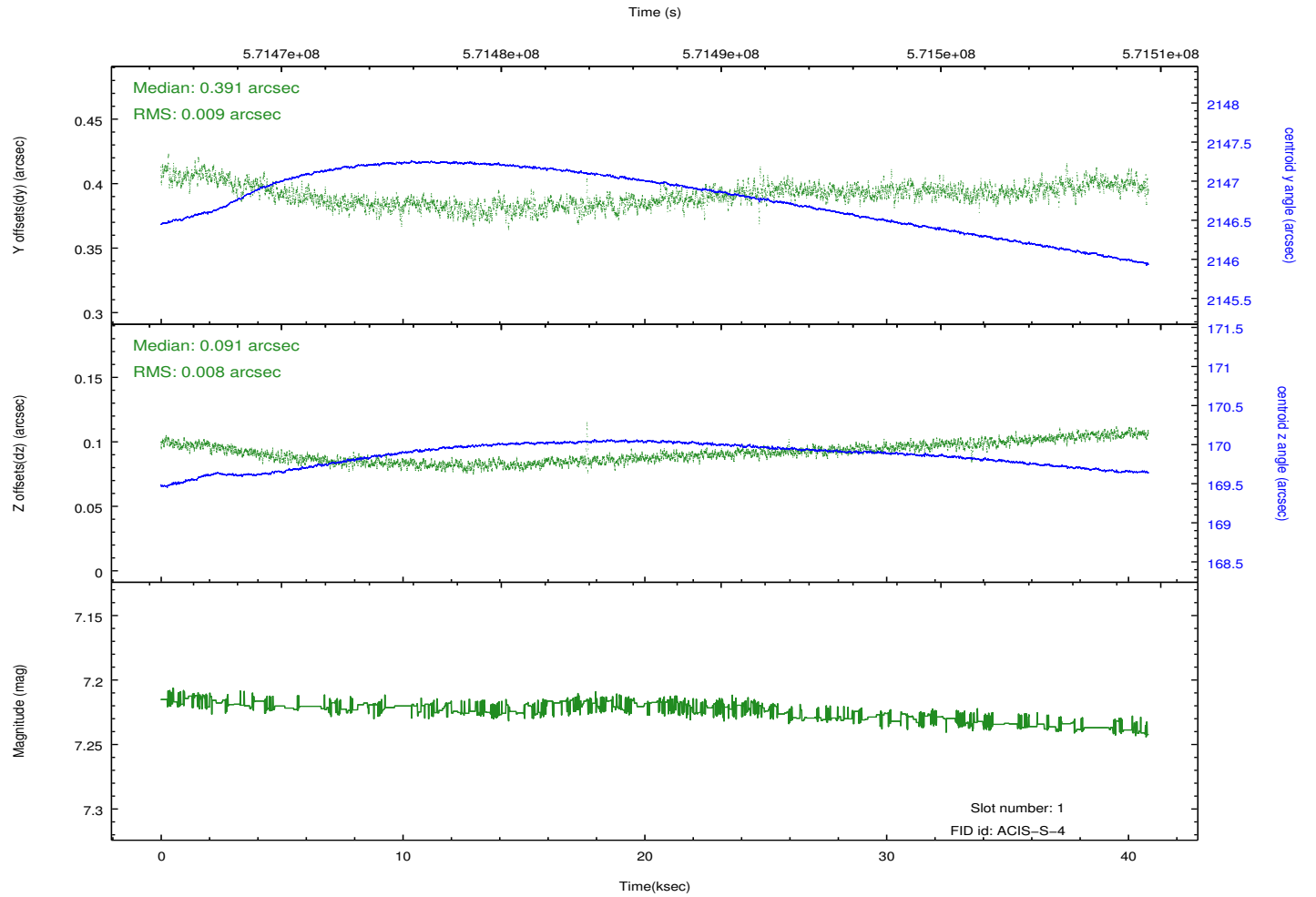
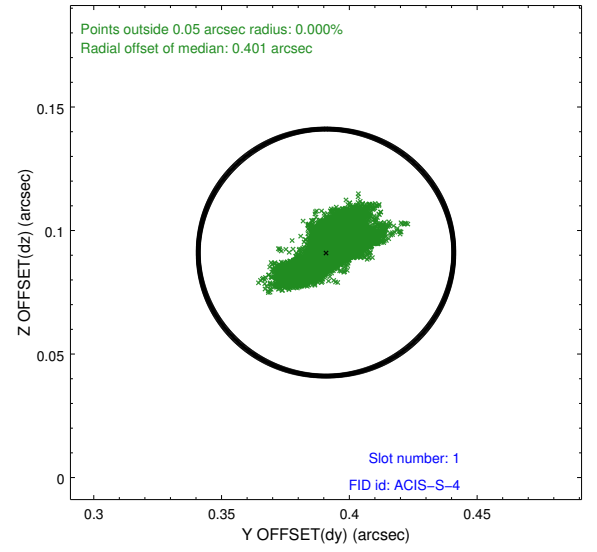
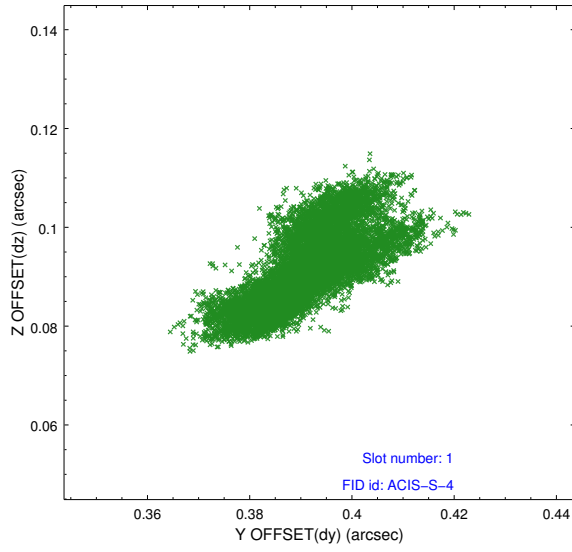


2.5 FID Slots

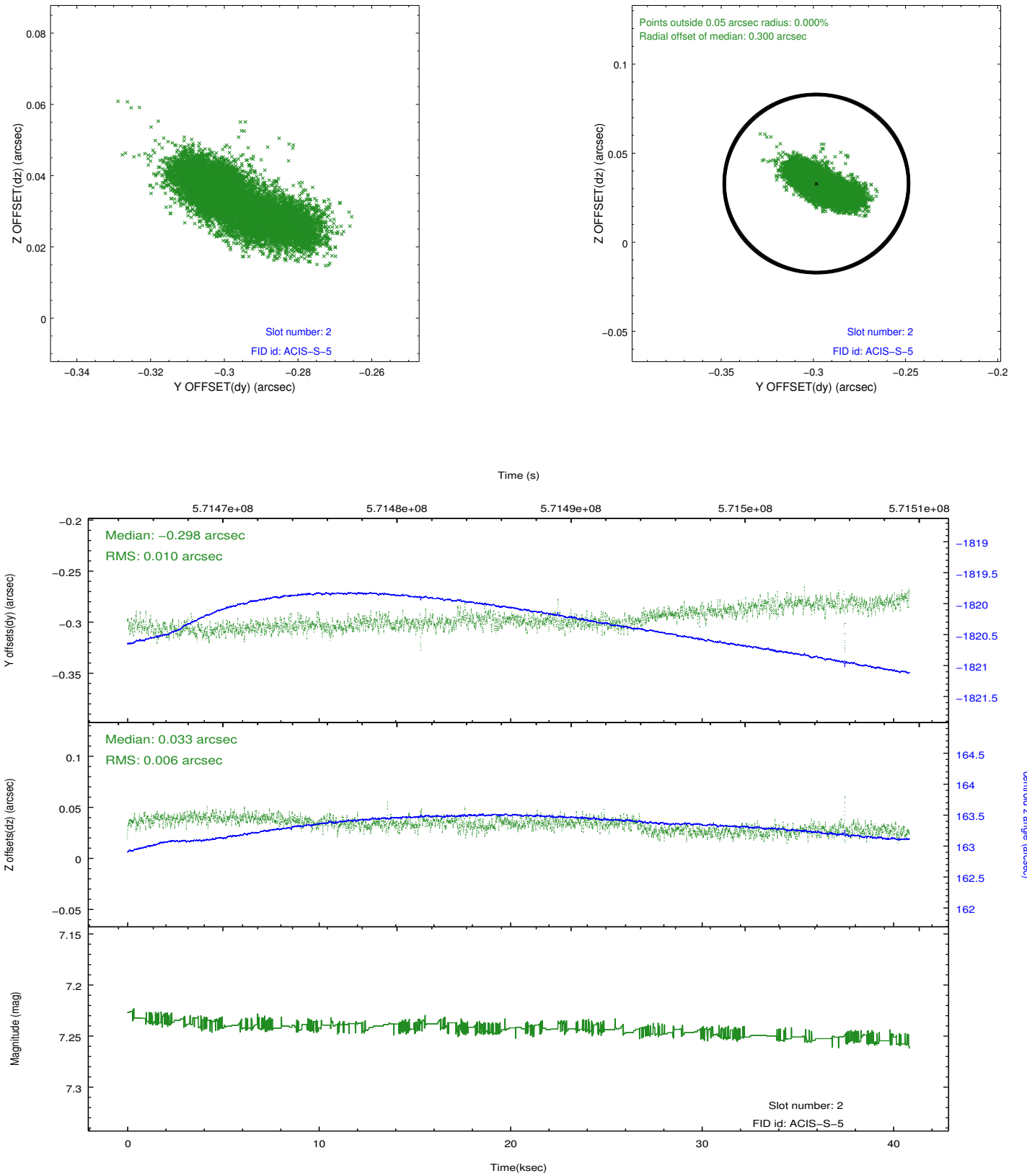
2.5.1 Slot 0



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)	2016.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.058137311697

A.2 Comments