

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17736 - L2 Version 1
Chandra X-Ray Center

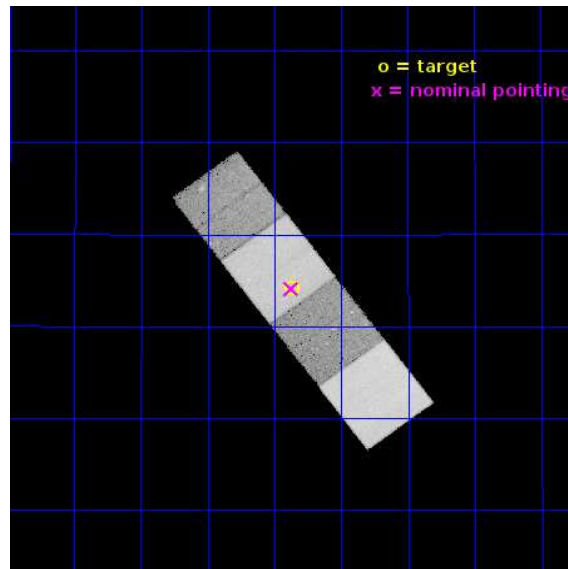
L2 Processing Date : Mar 25 2016

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1 Front

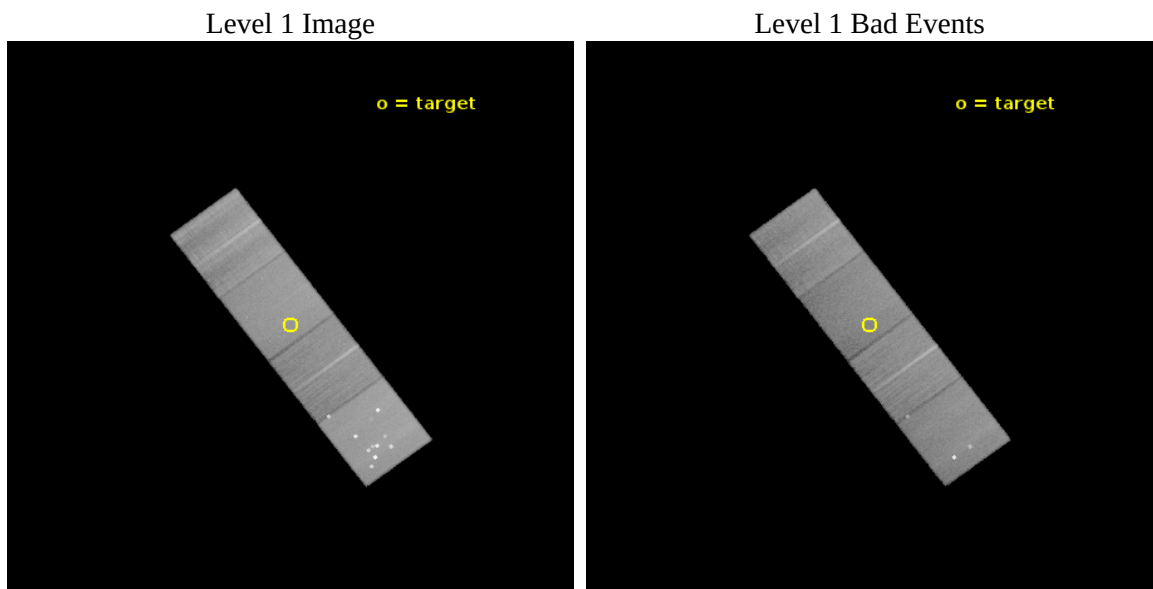
seq_num	201047	Sequence number
obs_id	17736	Observation id
title	A Search for X-ray Emission from the First Magnetically Active T Dwarf	Proposal title
observer	Peter Williams	Principal investigator
object	2MASS J10475385+2124234	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.966667	Observer's specified target RA [deg]
dec_targ	21.404167	Observer's specified target Dec [deg]
ra_nom	161.96835636399	Nominal RA [deg]
dec_nom	21.401930817188	Nominal Dec [deg]
roll_nom	233.15602369798	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42632.94201839	Sum of GTIs [s]
livetime	42075.911245004	Livetime [s]
ontime5	42632.900978446	Sum of GTIs [s]
ontime6	42626.577797532	Sum of GTIs [s]
ontime7	42632.94201839	Sum of GTIs [s]
ontime8	42626.536818147	Sum of GTIs [s]
l2events	374415	Number of level 2 events



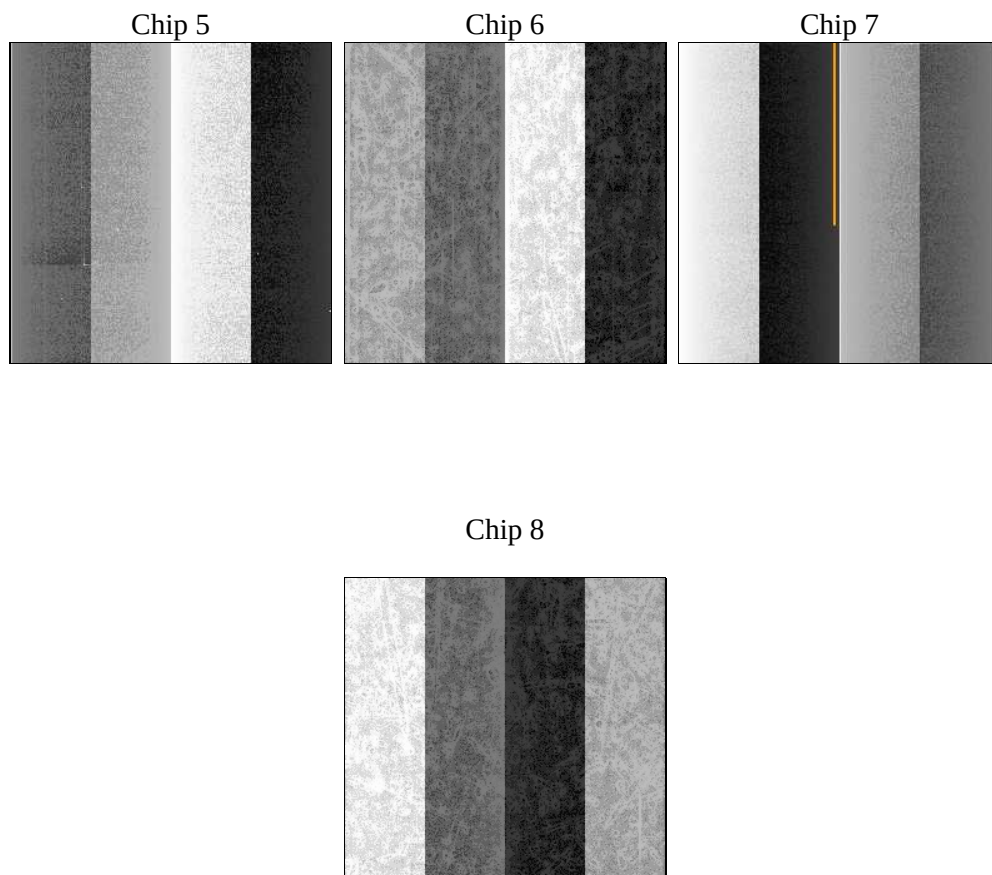
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	42563.866000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	42632.94201839	Sum of GTIs [s]
caldsver	4.7.1	 	ontime5	42632.900978446	Sum of GTIs [s]
date	2016-03-25T19:47:01	Date and time of file creation	ontime6	42626.577797532	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	42632.94201839	Sum of GTIs [s]
			ontime8	42626.536818147	Sum of GTIs [s]
			l1events	1393983	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	474527	256023	329830	333603
rejected events	225395	226591	189133	246021
rejected %	47%	88%	57%	73%

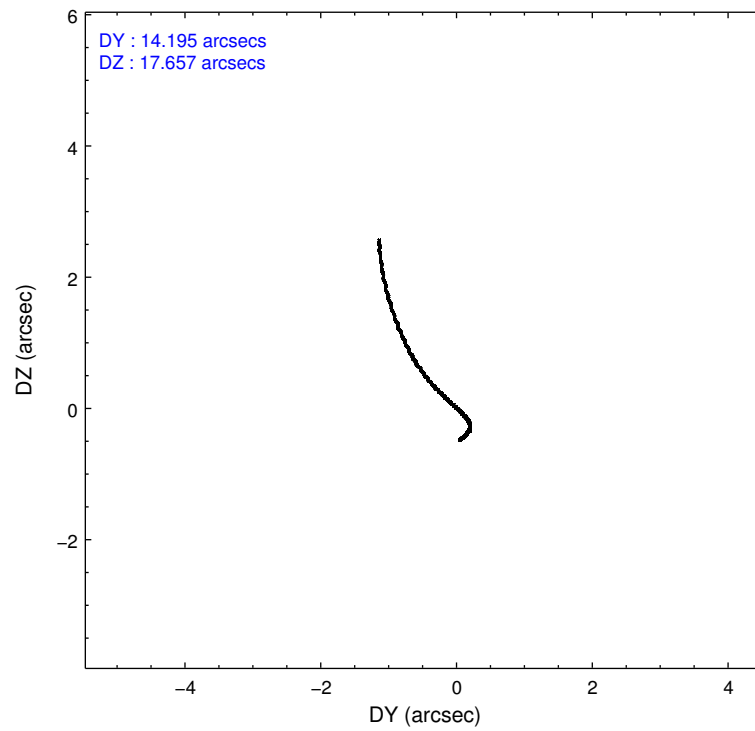
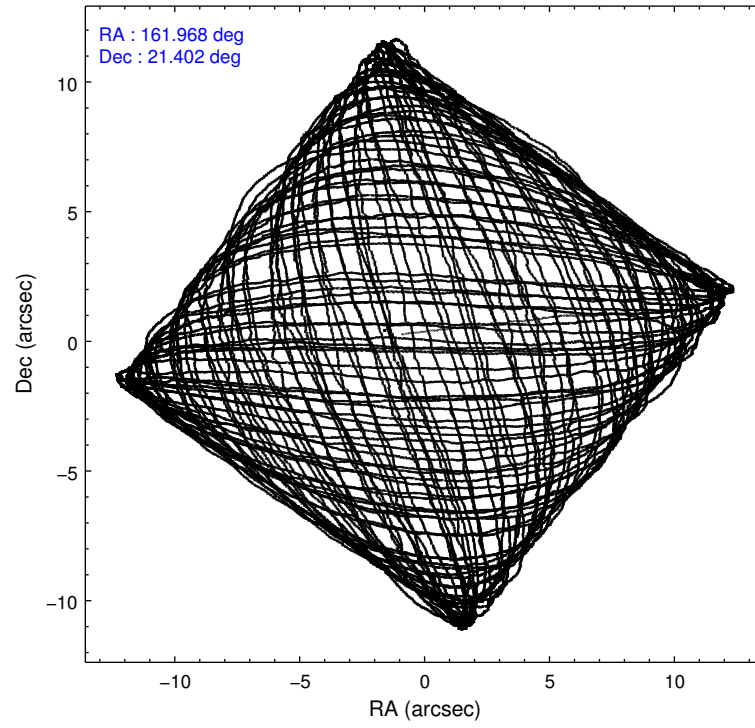
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	56149	9566	11464	24522
	11%	3%	3%	7%
grade 1 events	908	112	460	268
	0%	0%	0%	0%
grade 2 events	70230	6817	29825	21507
	14%	2%	9%	6%
grade 3 events	7767	2998	10913	9002
	1%	1%	3%	2%
grade 4 events	7123	2884	10886	8472
	1%	1%	3%	2%
grade 5 events	30534	12063	32164	18379
	6%	4%	9%	5%
grade 6 events	107890	7167	77621	24082
	22%	2%	23%	7%
grade 7 events	193926	214416	156497	227371
	40%	83%	47%	68%

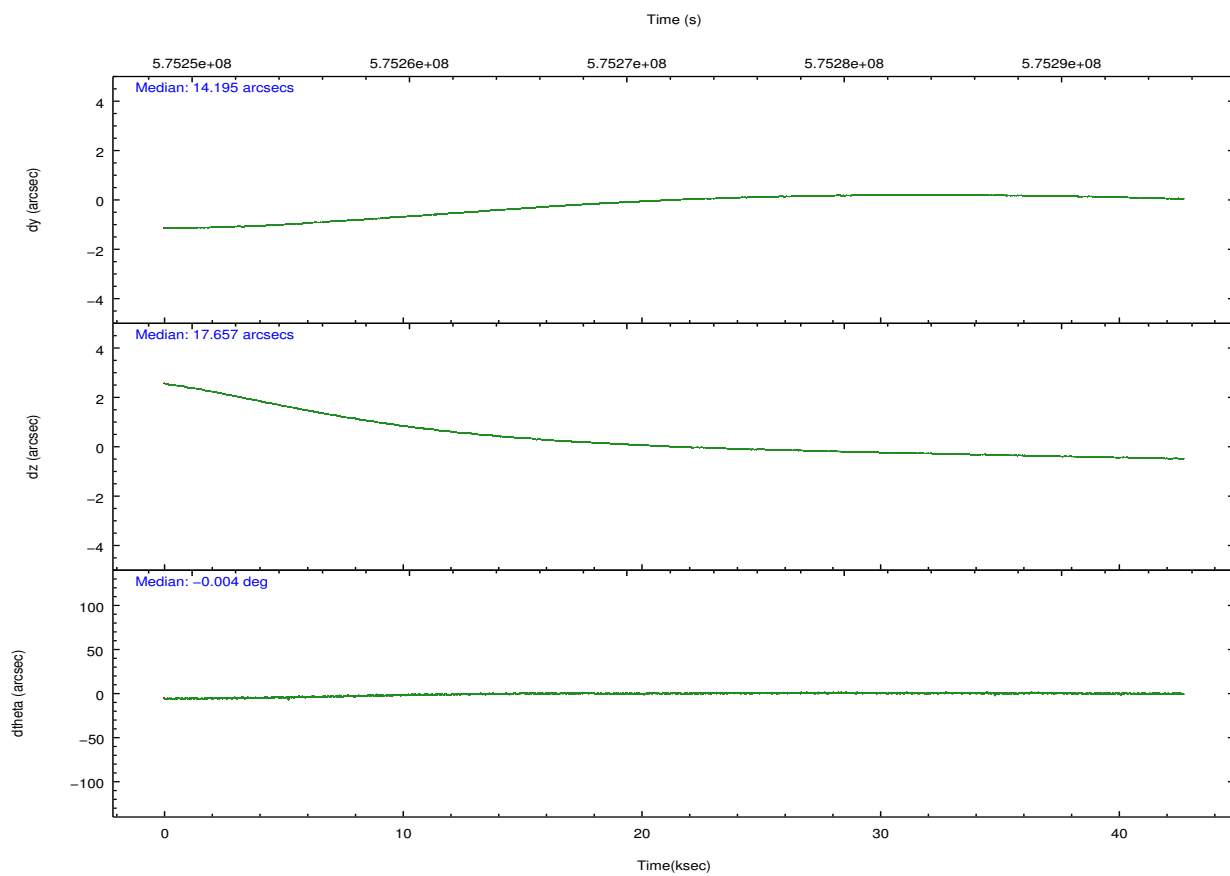
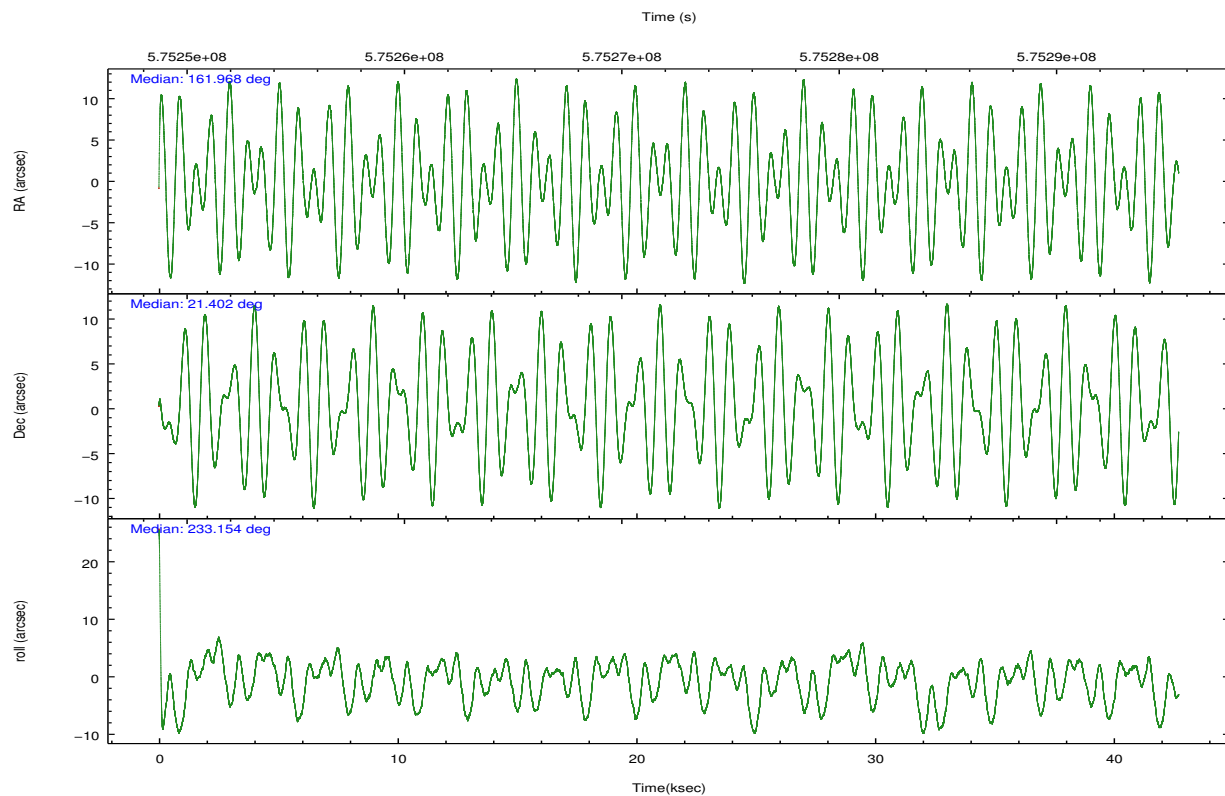
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	161.971485	161.9683563639946
[deg] Pointing Dec	21.429235	21.40193081718779
[deg] Pointing Roll	232.998242	233.1560236979776
[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)	575250947.184000	575249575.4008
Observation start date	2016-03-24T23:54:39	2016-03-24T23:32:55
[s] Observation end time (MET)	575293510.184000	575293738.5533201
Observation end date	2016-03-25T11:44:02	2016-03-25T11:48:58
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	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O3	Y
CCD S2 on	O5	Y
CCD S3 on	Y	Y
CCD S4 on	O4	Y
CCD S5 on	O2	N
Number of optional ACIS chips dropped	2	2
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



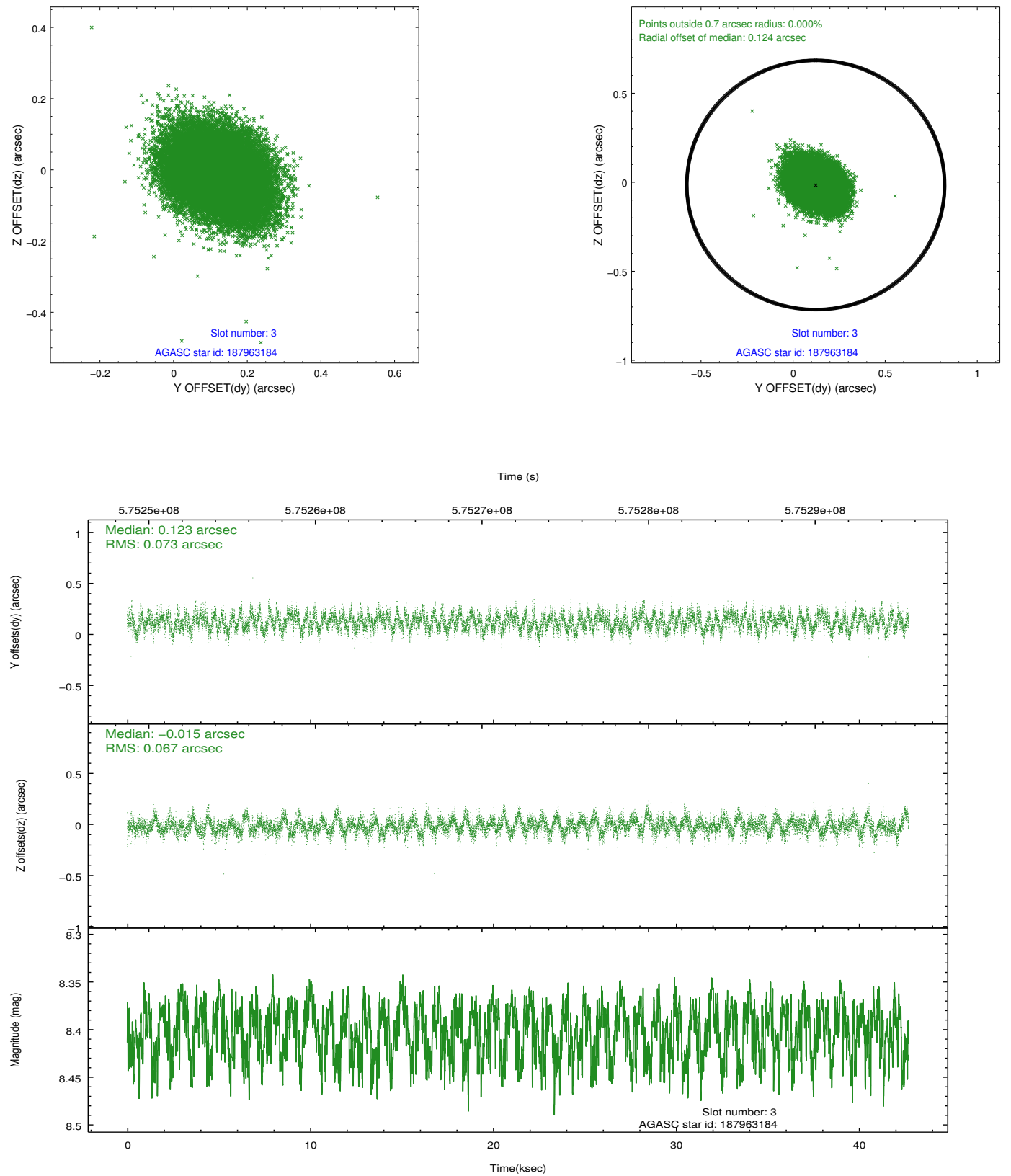


Slot Statistics

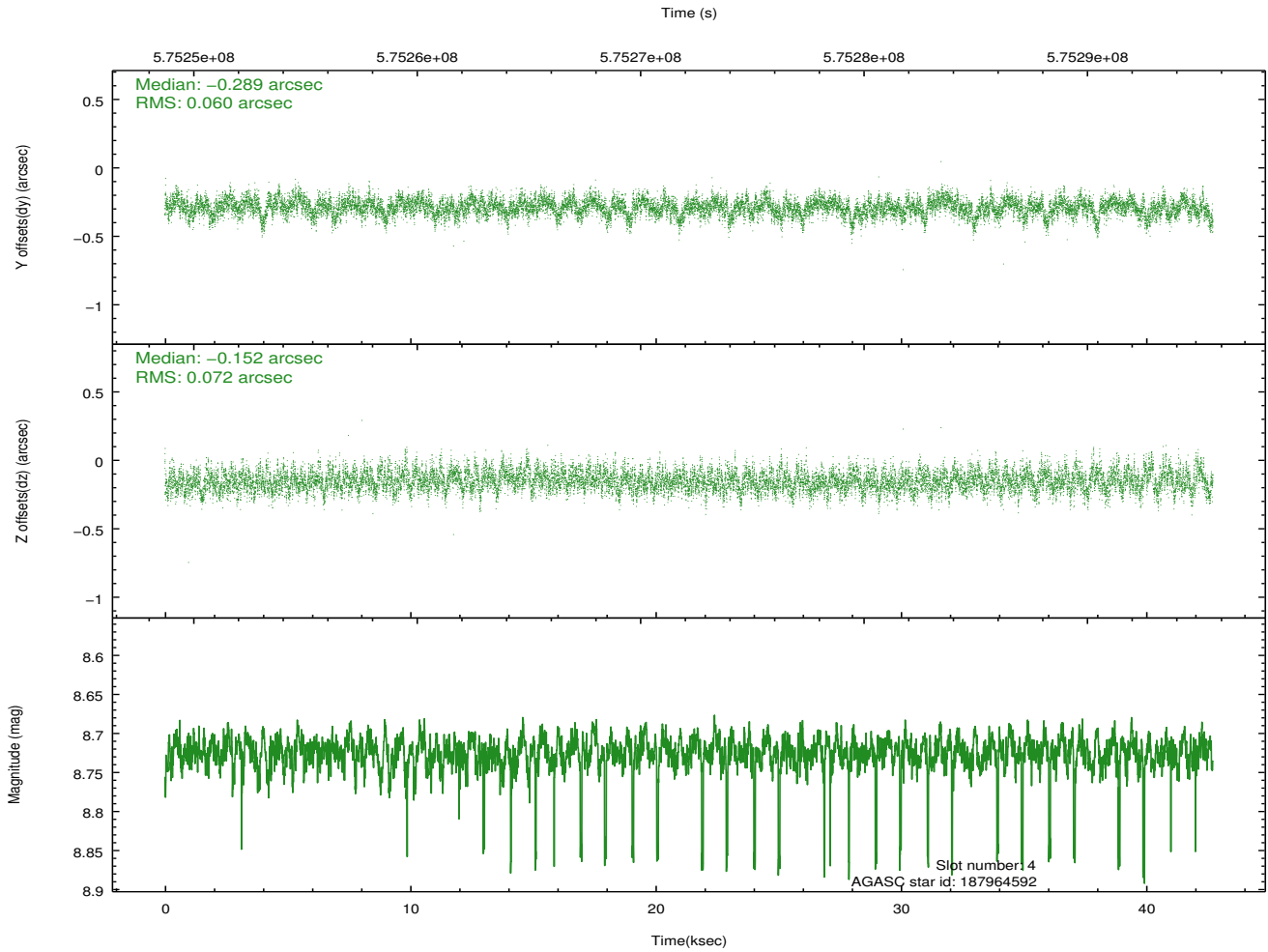
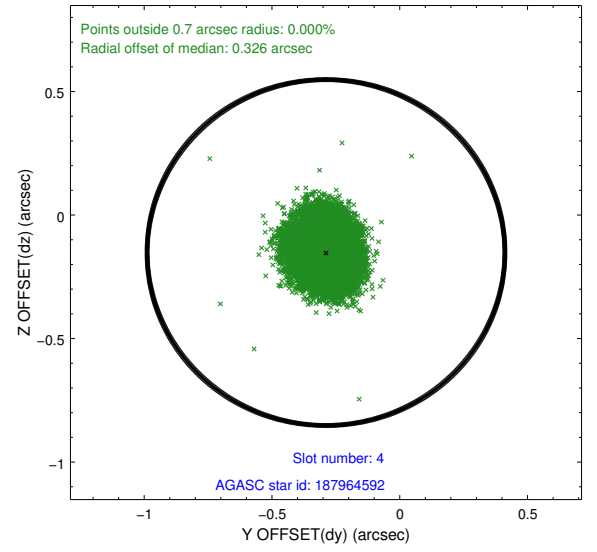
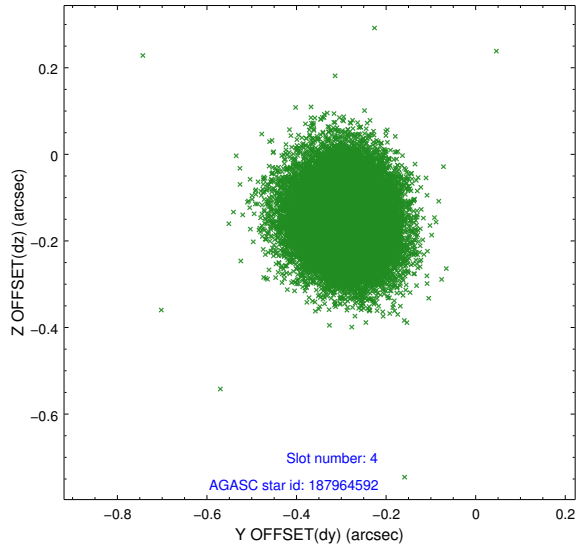
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	10421	-0.150	-0.121	0.019	0.058	0.000000	0.000000	-767.04	-1739.53
1	FID		ACIS-S-4	7.22	10420	0.417	0.105	0.022	0.046	0.000000	0.000000	2146.79	169.16
2	FID		ACIS-S-5	7.24	10420	-0.298	0.023	0.015	0.051	0.000000	0.000000	-1820.03	162.76
3	GUIDE	used	187963184	8.40	20830	0.123	-0.015	0.107	0.168	161.309356	21.204615	1980.45	-1290.86
4	GUIDE	used	187964592	8.72	20830	-0.289	-0.152	0.100	0.160	162.257038	20.887261	979.77	1943.16
5	GUIDE	used	187965696	9.02	20814	0.105	0.215	0.133	0.229	162.082685	22.091654	-2127.23	-1139.09
6	GUIDE	used	187965824	9.16	20818	-0.089	-0.171	0.127	0.201	161.829778	20.786743	2134.48	1010.74
7	GUIDE	used	187966120	8.49	20829	0.142	0.123	0.101	0.170	161.863796	21.908458	-1159.80	-1326.27

2.4 Star Slots

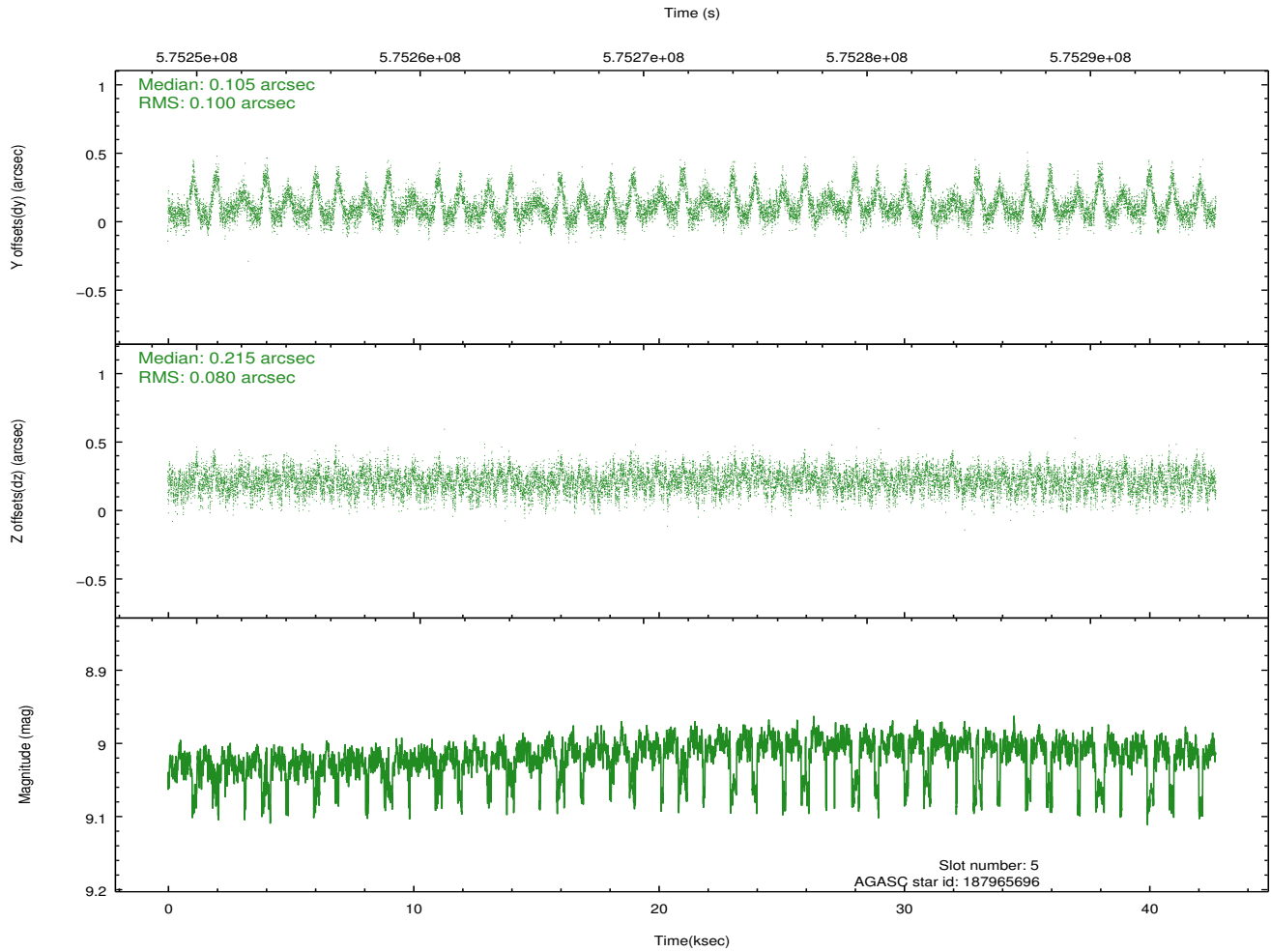
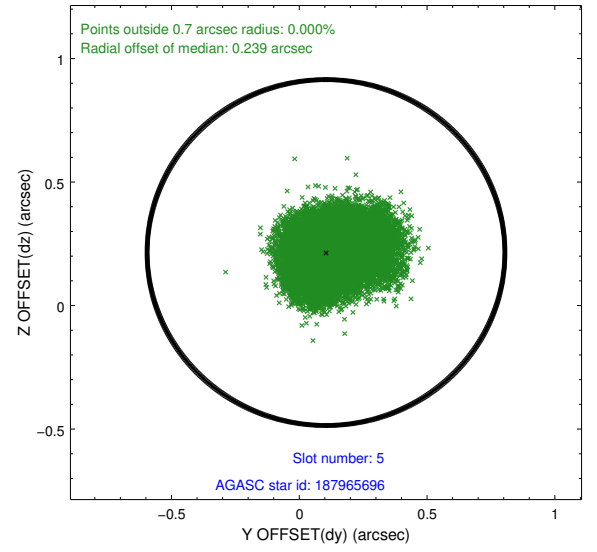
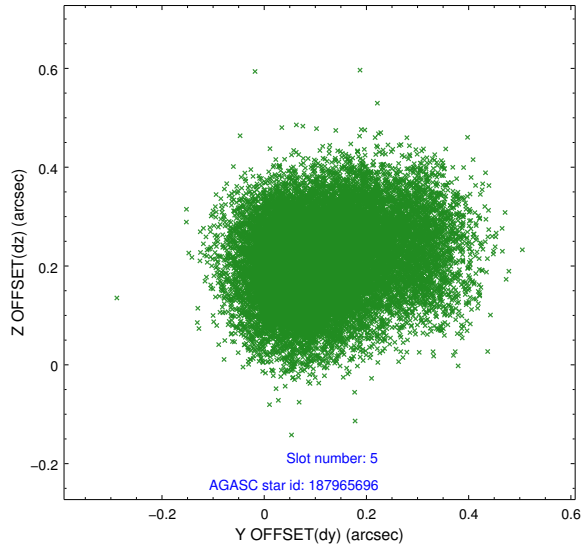
2.4.1 Slot 3



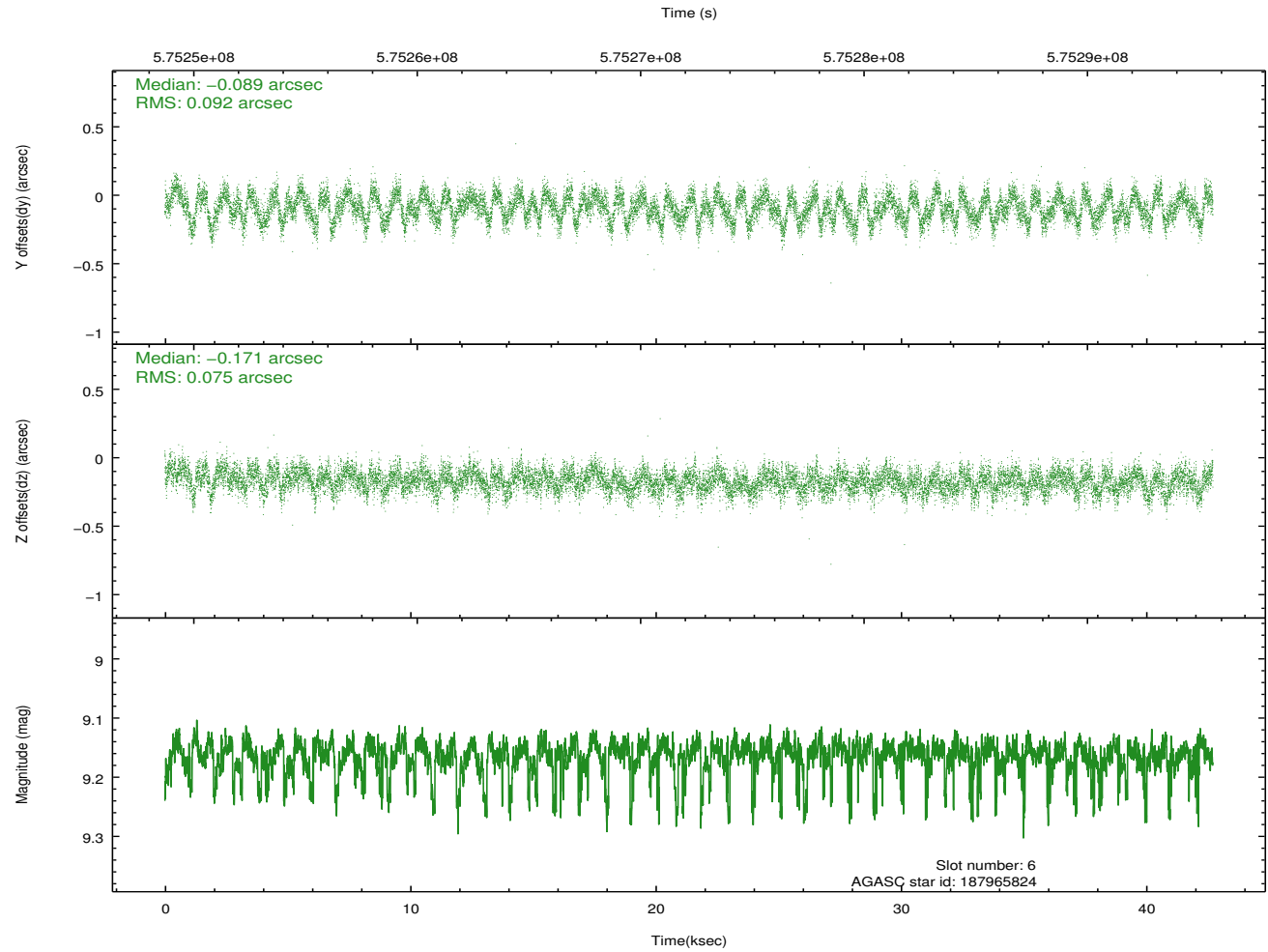
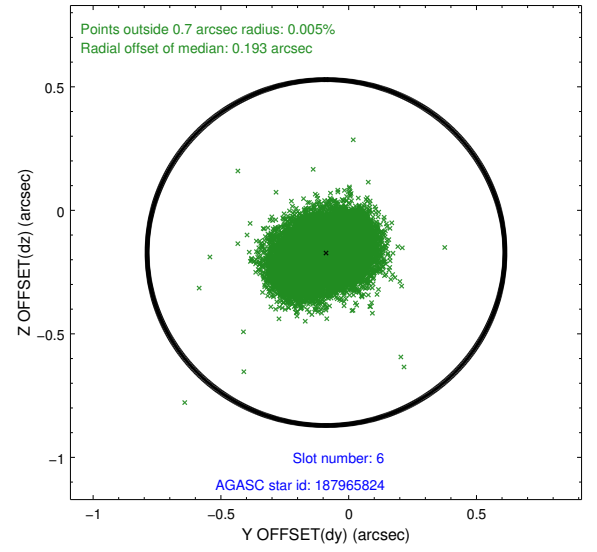
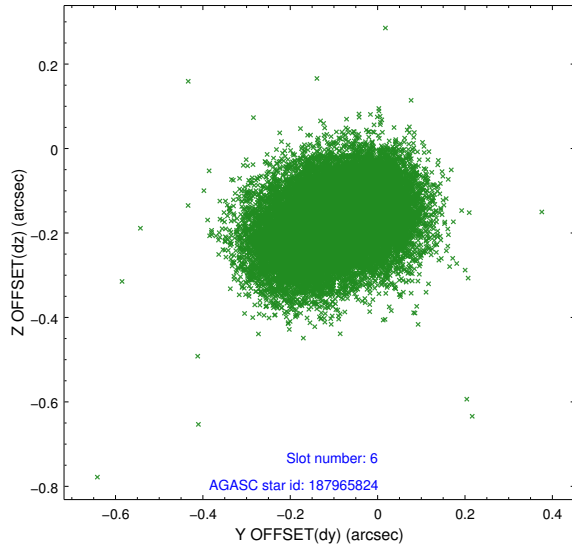
2.4.2 Slot 4



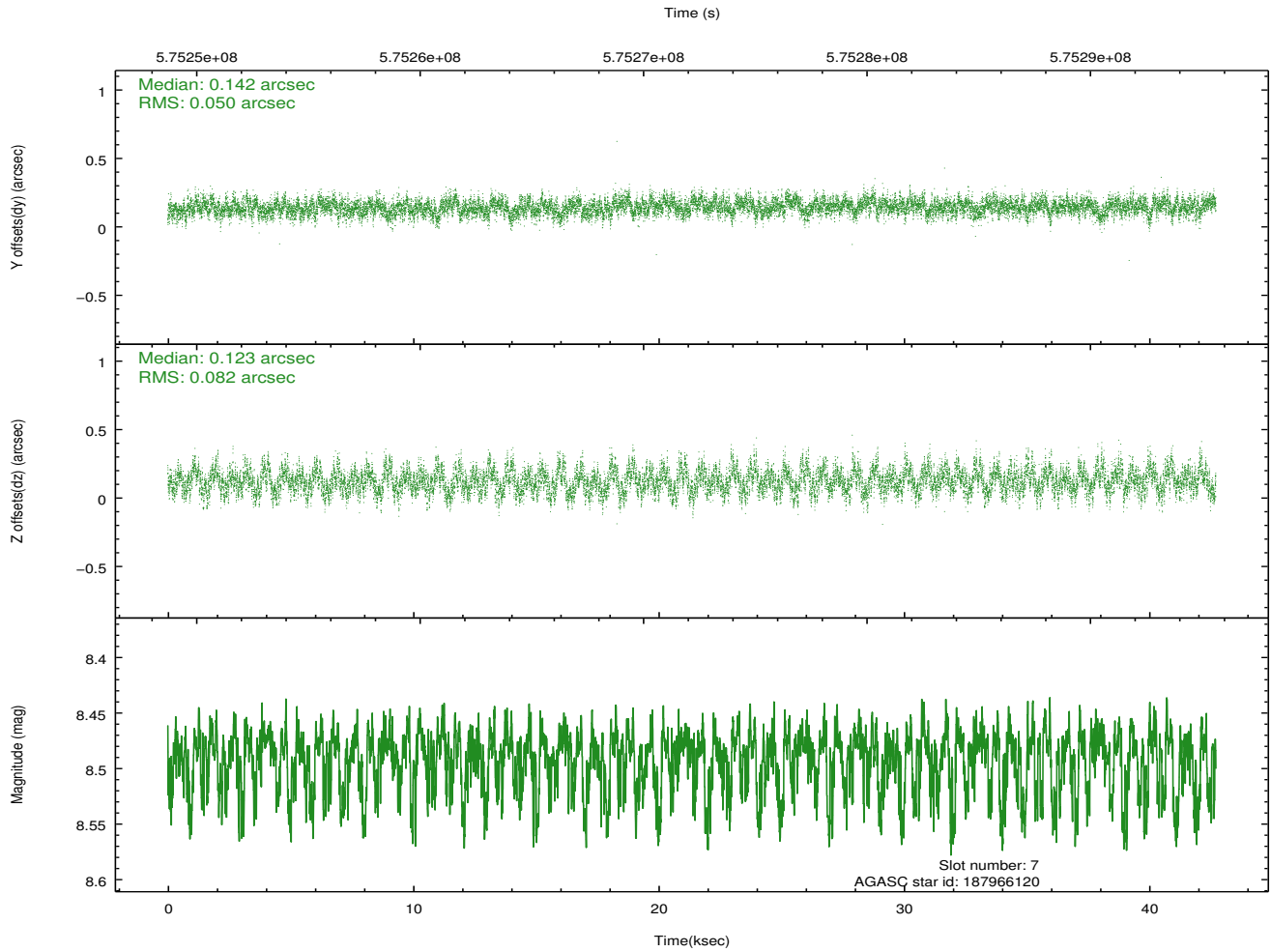
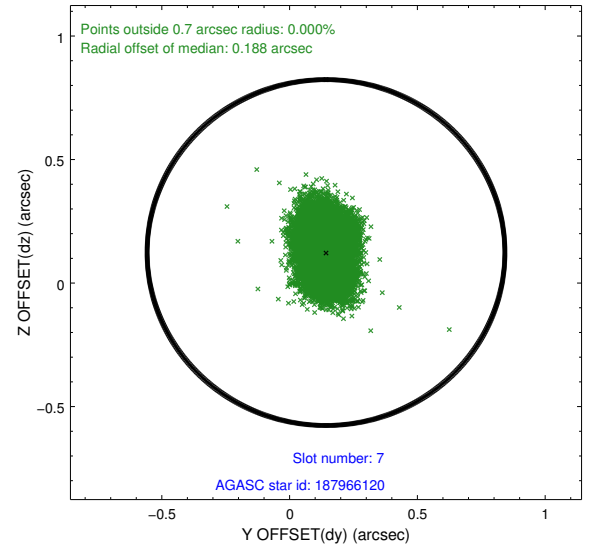
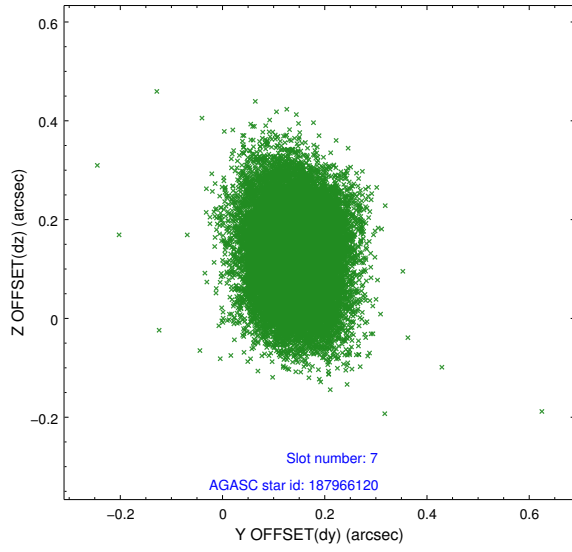
2.4.3 Slot 5



2.4.4 Slot 6

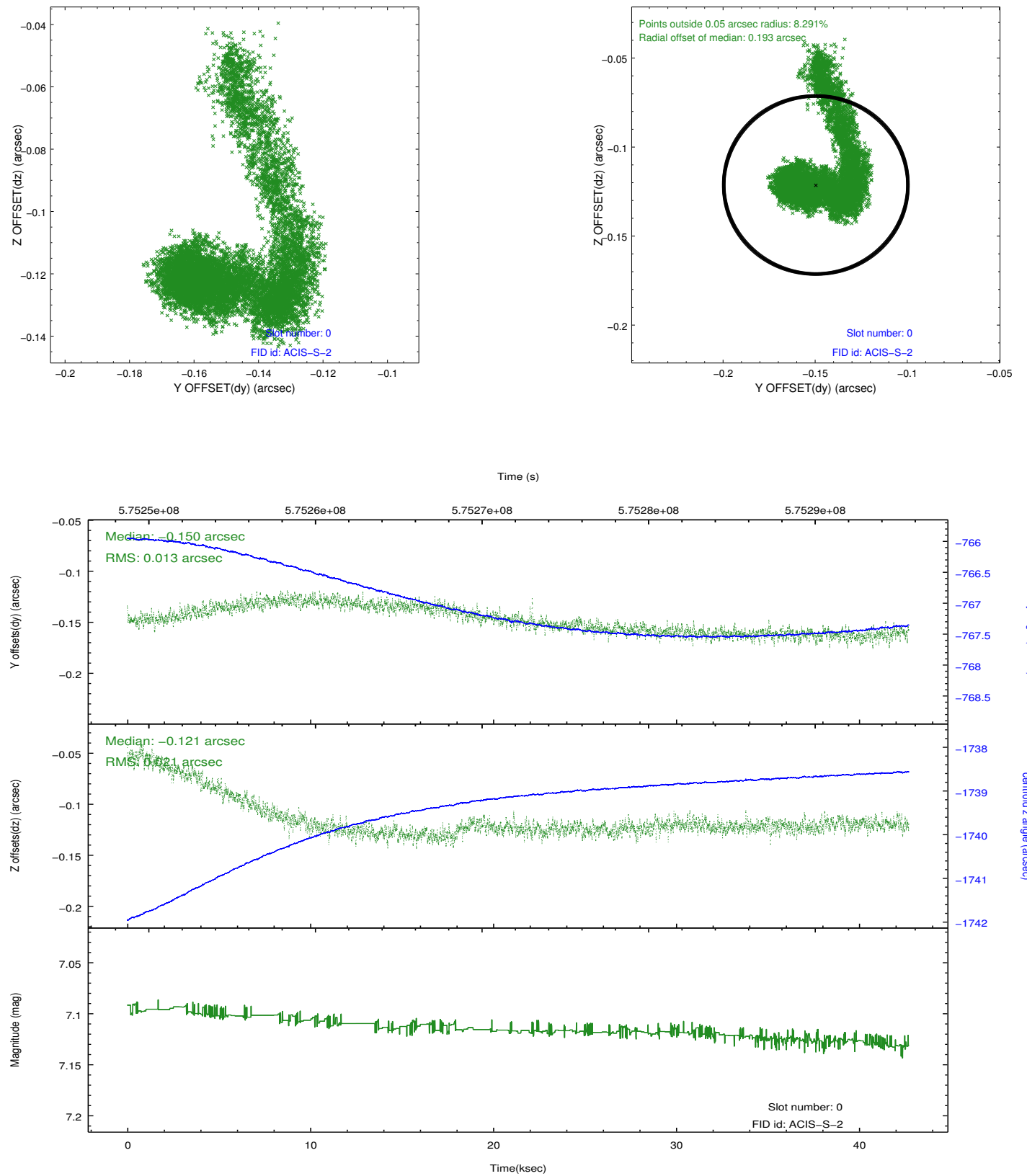


2.4.5 Slot 7

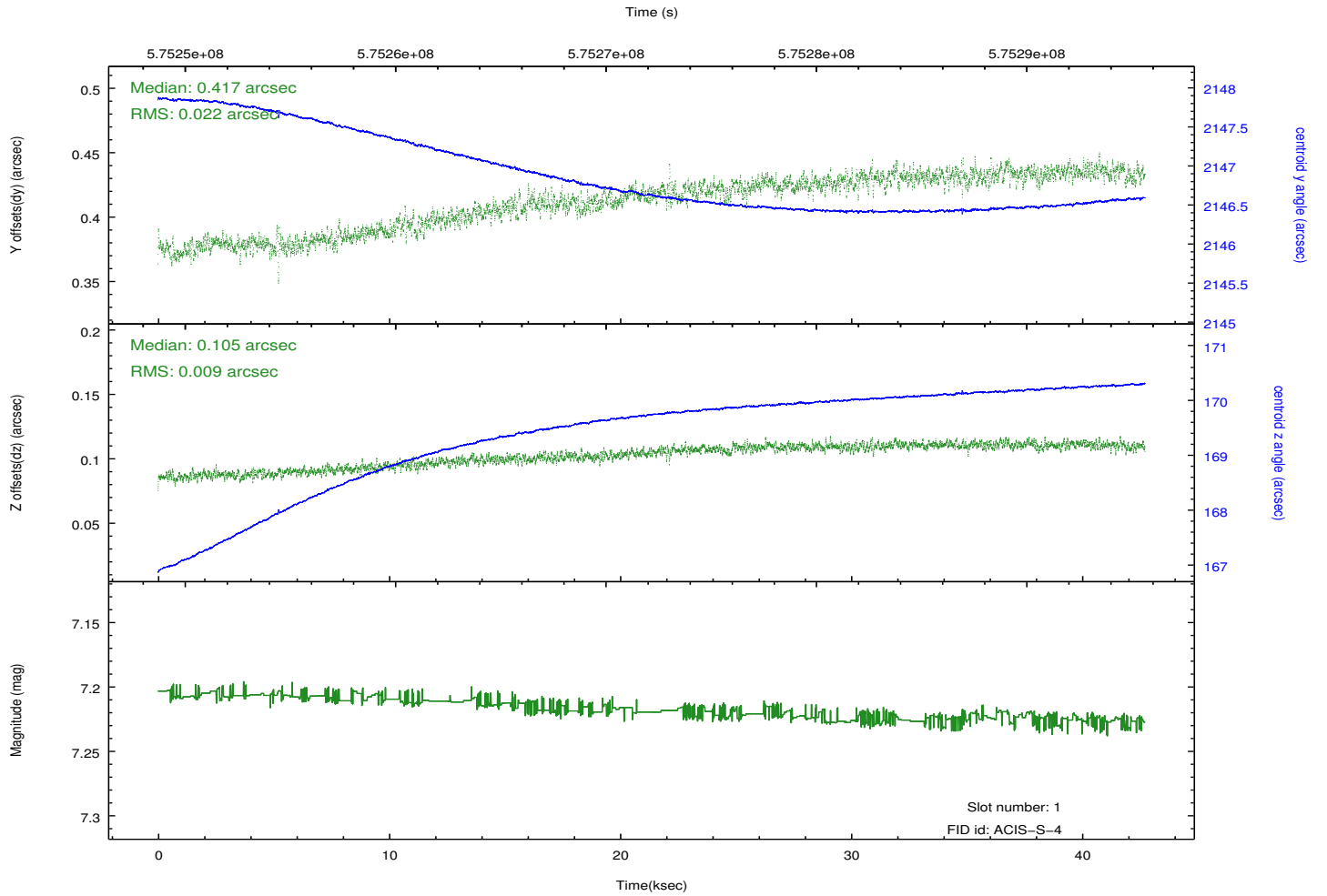
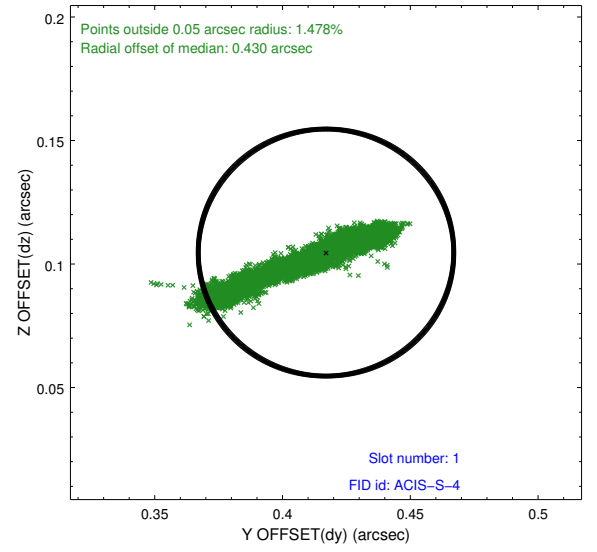
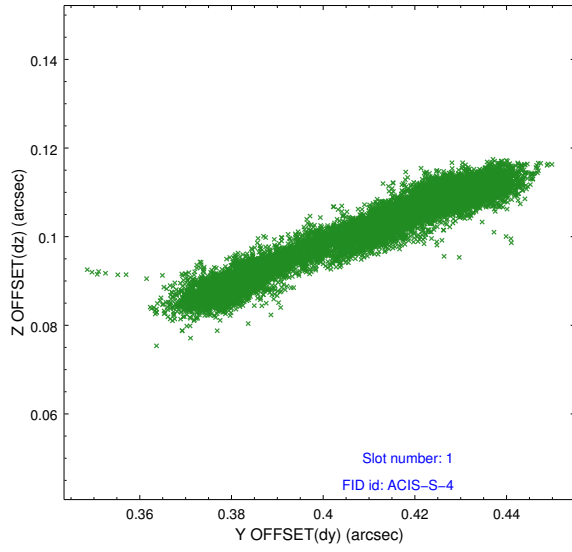


2.5 FID Slots

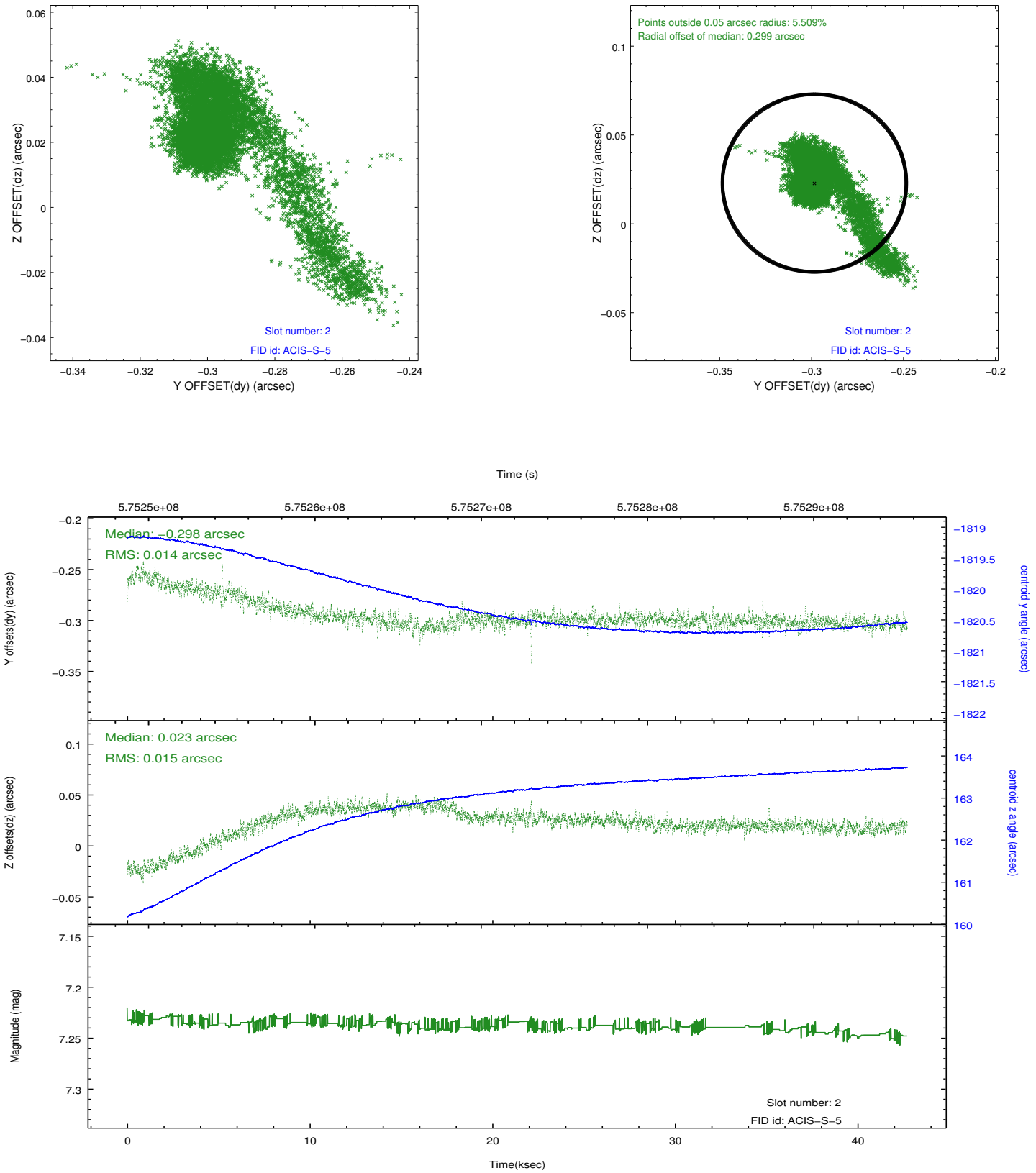
2.5.1 Slot 0



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)	2016.03.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.63294201839

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with VLA.

Two optional chips were dropped.