

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18425 - L2 Version 1
Chandra X-Ray Center

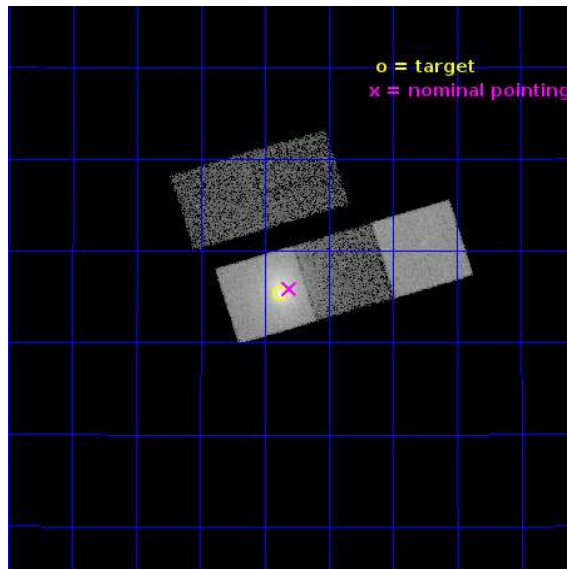
L2 Processing Date : Apr 8 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

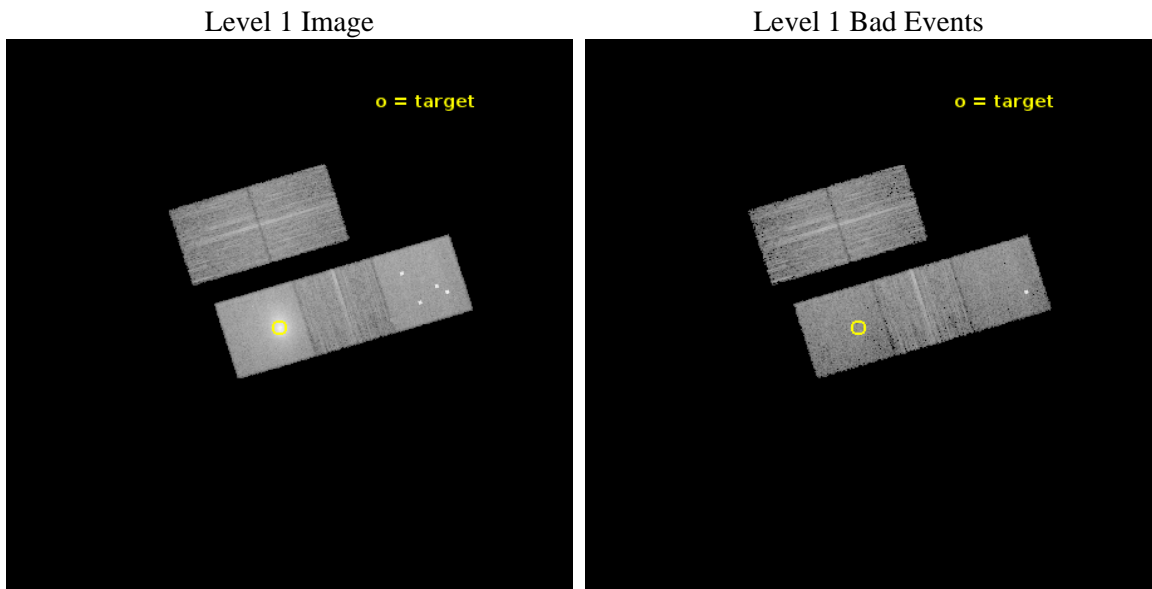
seq_num	890118	Sequence number
obs_id	18425	Observation id
title	AO-17 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.2016783716	Nominal RA [deg]
dec_nom	26.598328280341	Nominal Dec [deg]
roll_nom	162.87087546123	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10056.400077462	Sum of GTIs [s]
liveltime	9925.0058070361	Livetime [s]
ontime2	10053.259057283	Sum of GTIs [s]
ontime3	10056.400077462	Sum of GTIs [s]
ontime5	10056.400077462	Sum of GTIs [s]
ontime6	10056.400077462	Sum of GTIs [s]
ontime7	10056.400077462	Sum of GTIs [s]
l2events	183271	Number of level 2 events



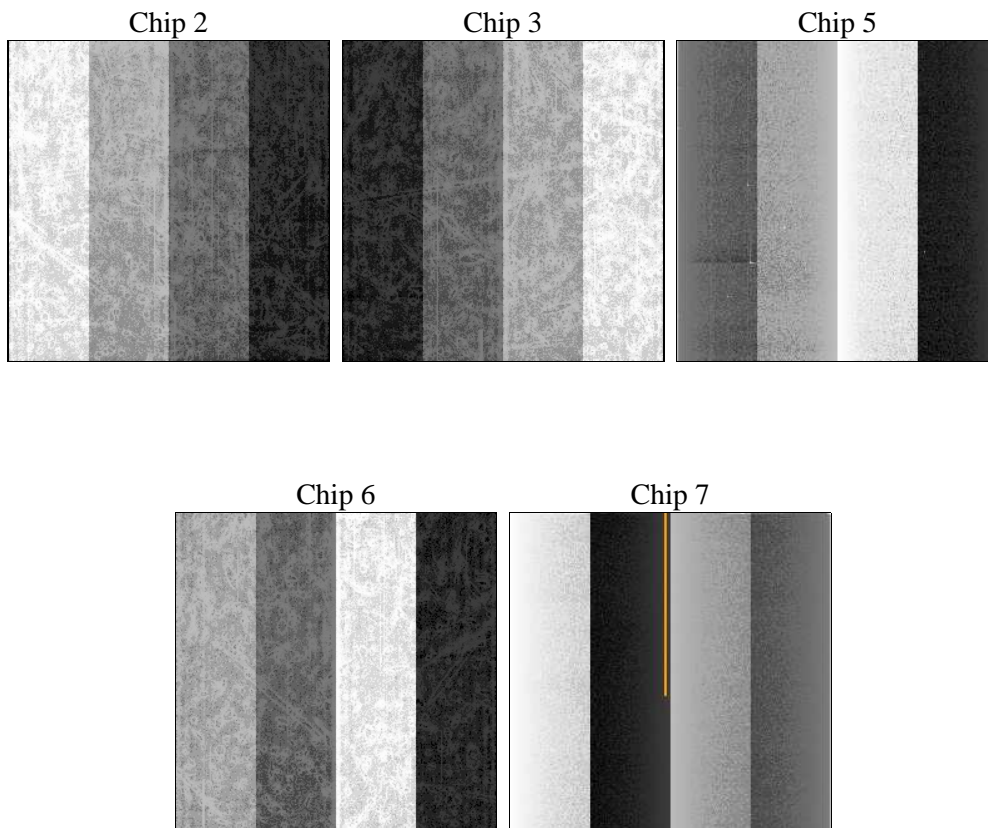
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	10056.400077462	Sum of GTIs [s]
caldsver	4.7.1	 	ontime2	10053.259057283	Sum of GTIs [s]
date	2016-04-09T01:57:42	Date and time of file creation	ontime3	10056.400077462	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10056.400077462	Sum of GTIs [s]
			ontime6	10056.400077462	Sum of GTIs [s]
			ontime7	10056.400077462	Sum of GTIs [s]
			l1events	464676	Number of level 1 events

2.1.4 Events

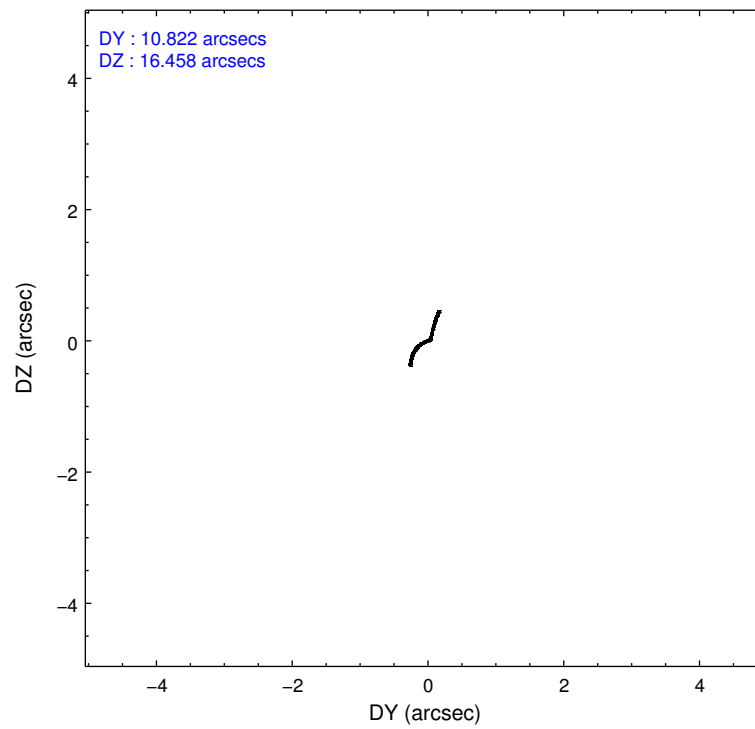
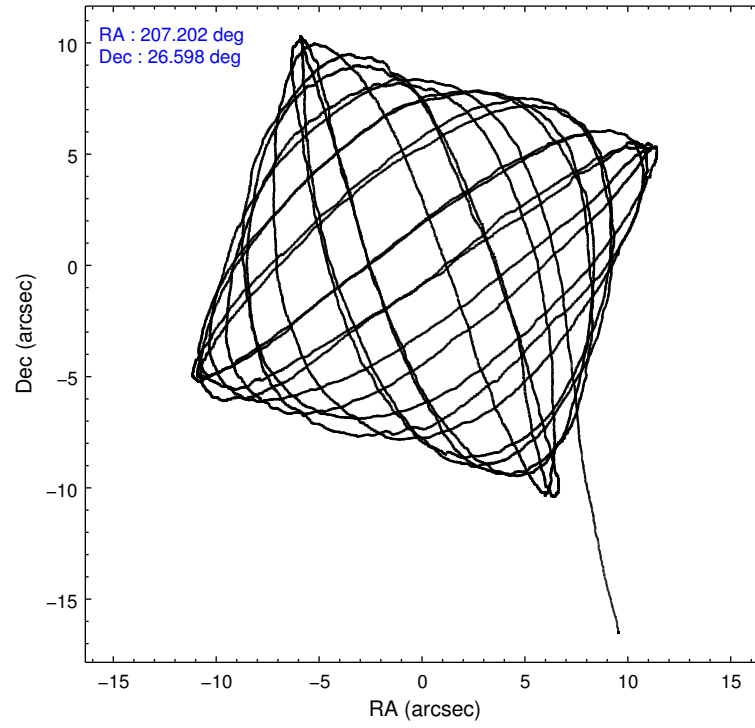
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	63678	60228	110099	68237	162434
rejected events	56237	53080	54459	56424	47021
rejected %	88%	88%	49%	82%	28%

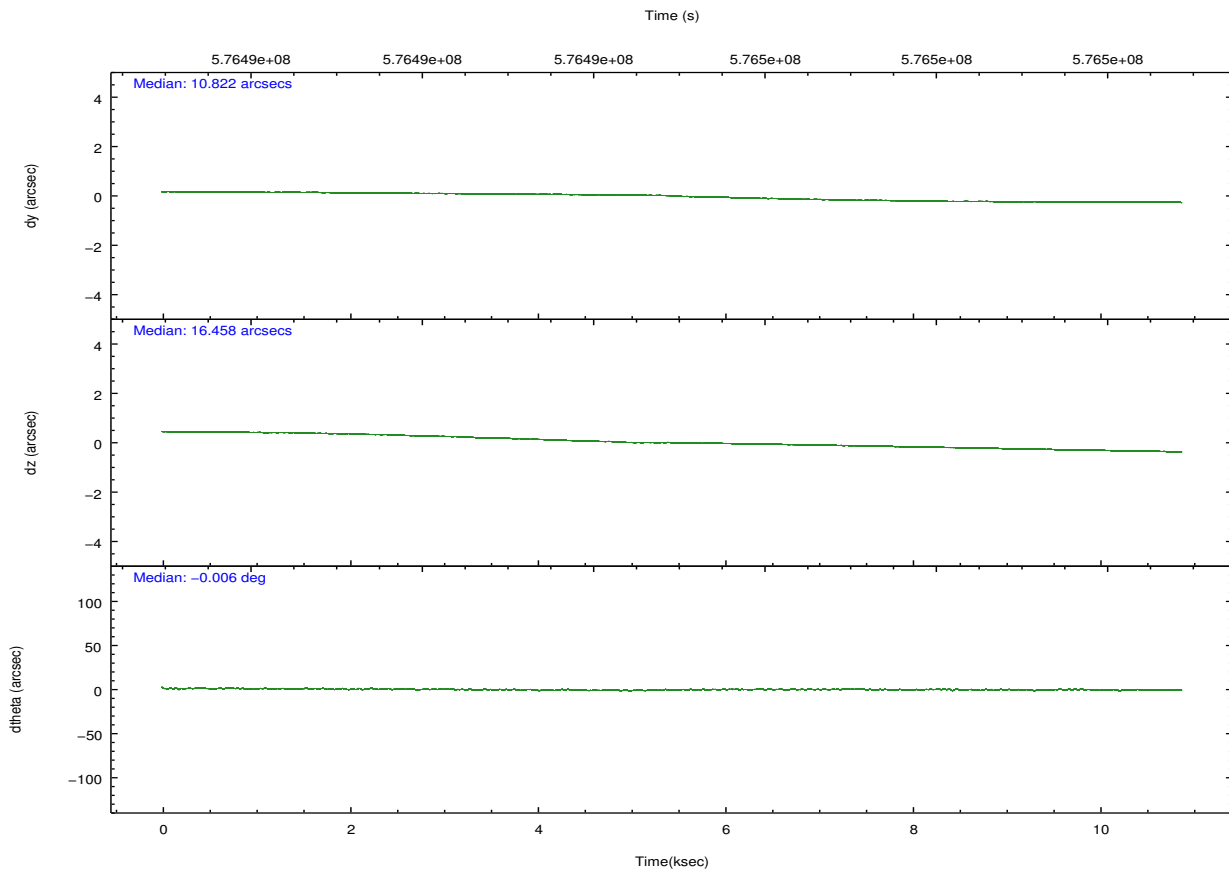
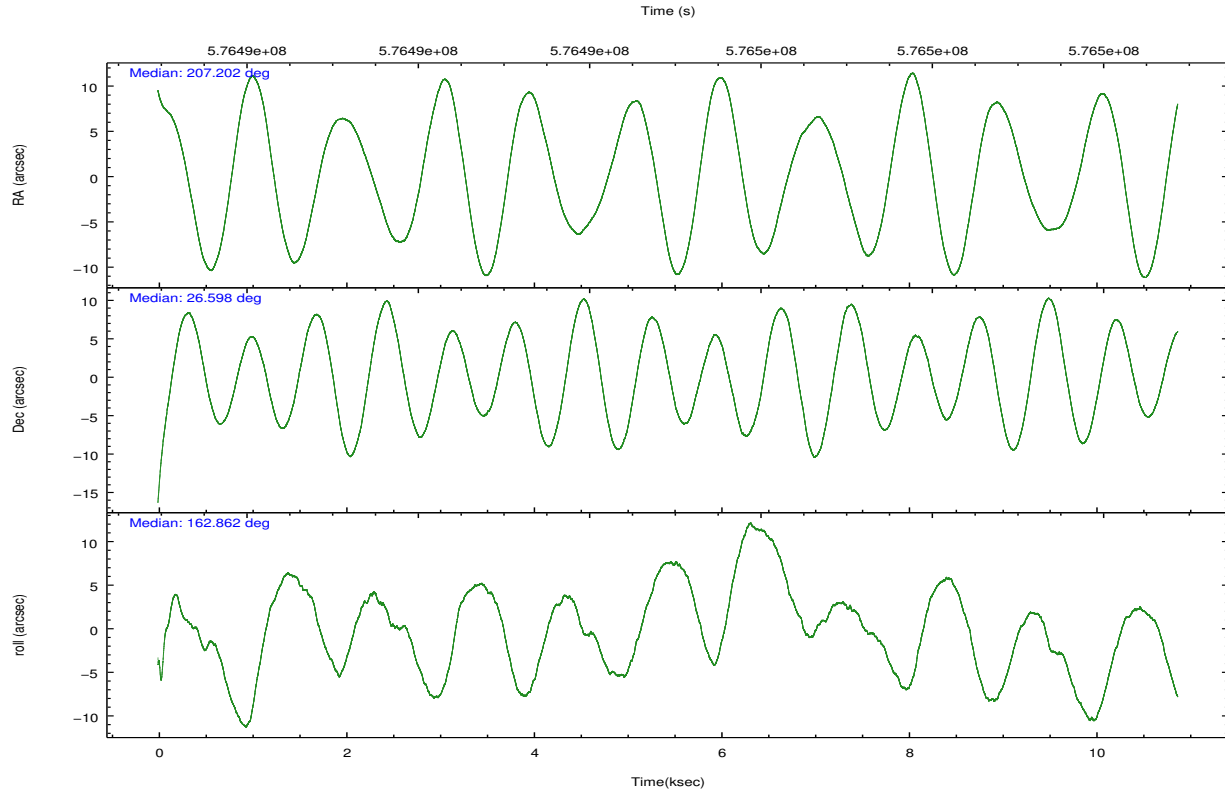
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2922	2775	10557	5943	25478
	4%	4%	9%	8%	15%
grade 1 events	34	39	318	53	117
	0%	0%	0%	0%	0%
grade 2 events	1761	1457	15429	2242	28921
	2%	2%	14%	3%	17%
grade 3 events	703	764	1723	887	11906
	1%	1%	1%	1%	7%
grade 4 events	750	723	1521	863	11660
	1%	1%	1%	1%	7%
grade 5 events	2522	3022	7470	3051	8758
	3%	5%	6%	4%	5%
grade 6 events	1307	1429	26425	1881	37479
	2%	2%	24%	2%	23%
grade 7 events	53679	50019	46656	53317	38115
	84%	83%	42%	78%	23%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.231540	207.201678371605	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.604796	26.59832828034127	Alternating exposures requested	N	N
[deg] Pointing Roll	162.700874	162.87087546123	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	575856068.184000	575856068.184000			
[s] Window stop time (MET)	578361668.184000	578361668.184000			
[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)	576490333.184000	576488401.7465301			
Observation start date	2016-04-08T08:11:05	2016-04-08T07:40:01			
[s] Observation end time (MET)	576500333.184000	576501302.90976			
Observation end date	2016-04-08T10:57:45	2016-04-08T11:15:02			
Read mode	TIMED	TIMED			

2.3 Aspect



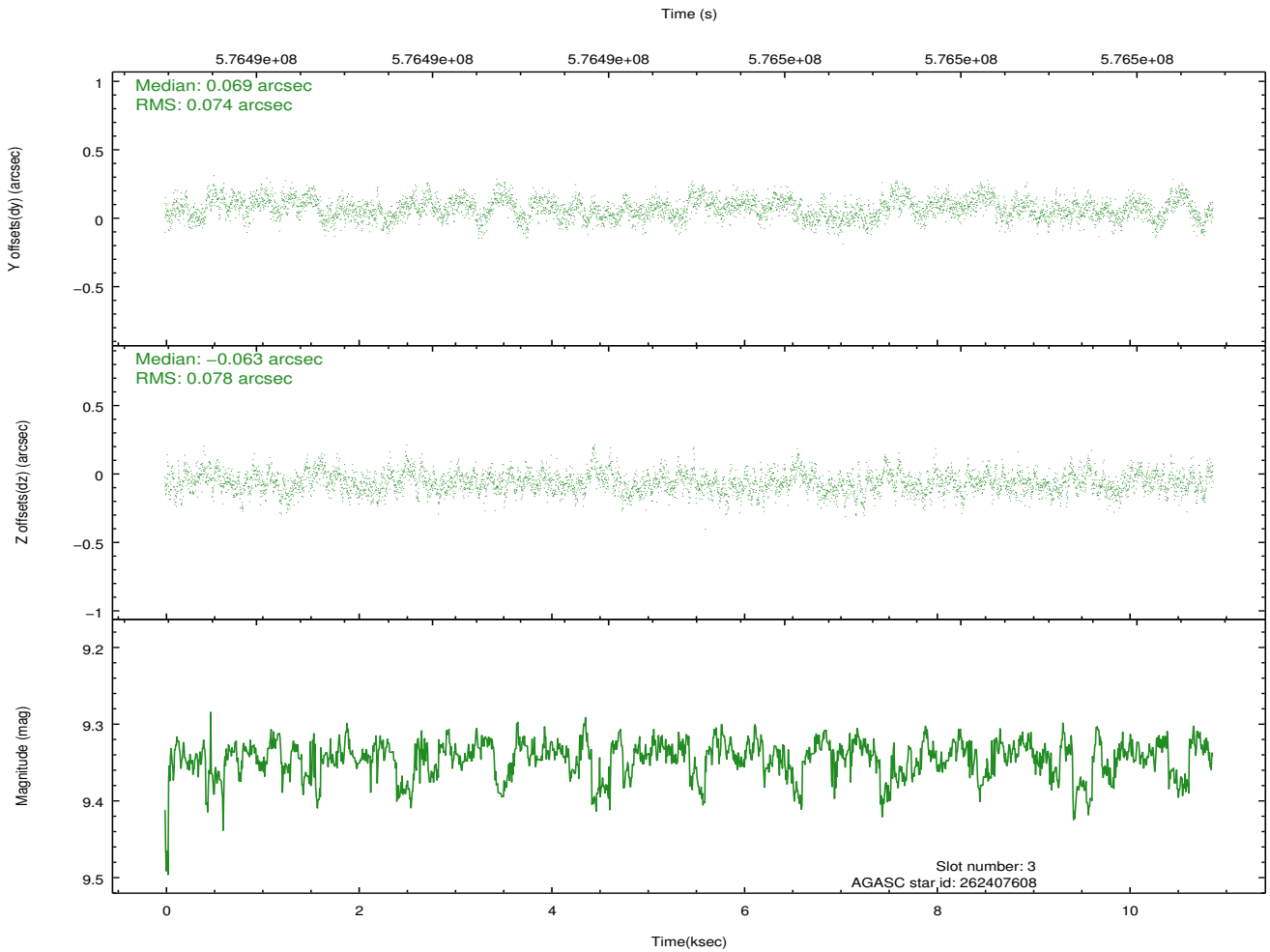
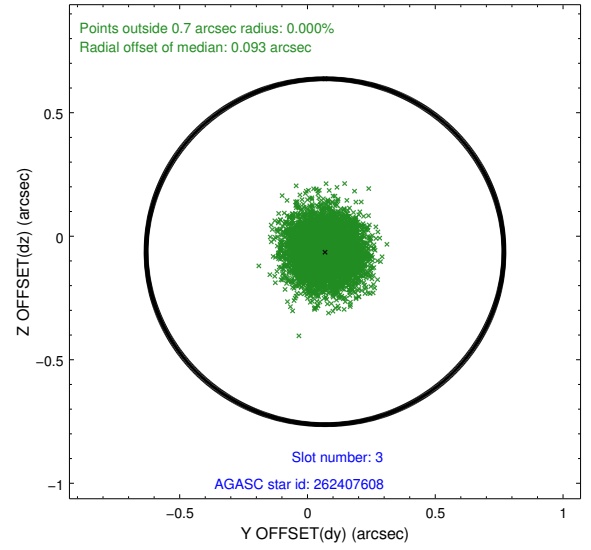
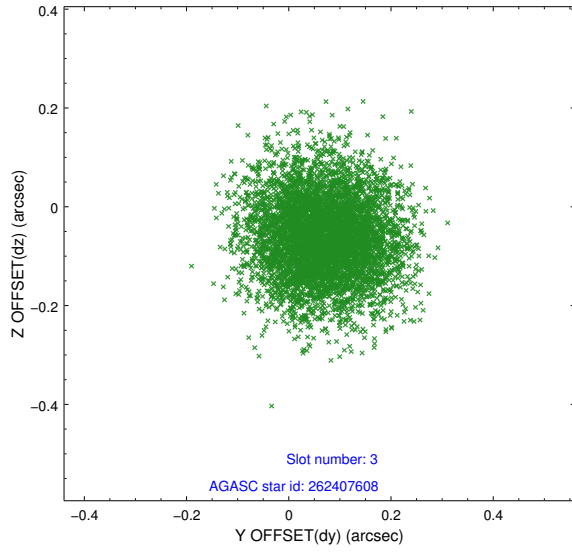


Slot Statistics

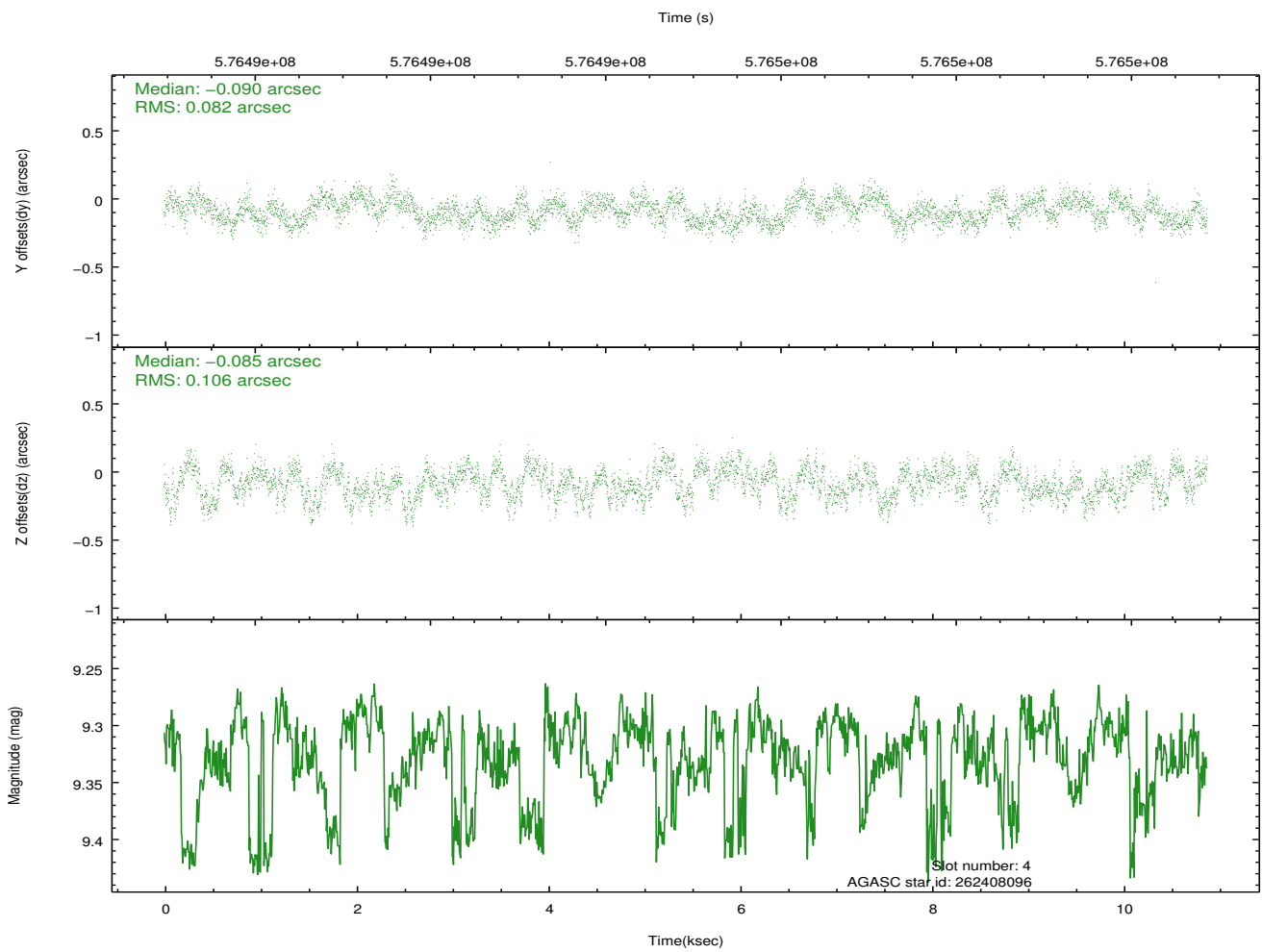
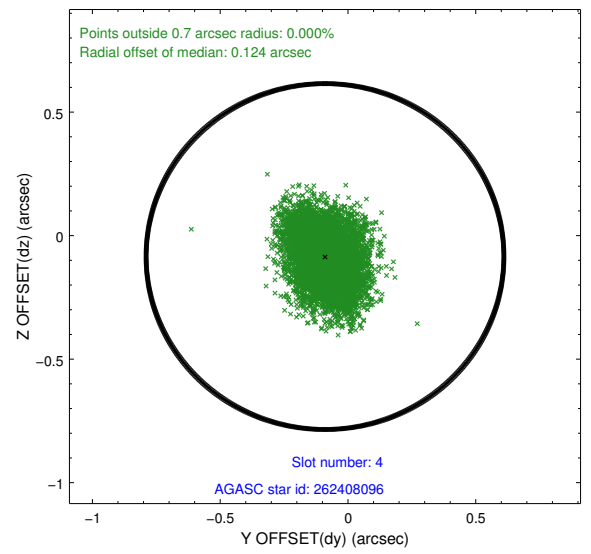
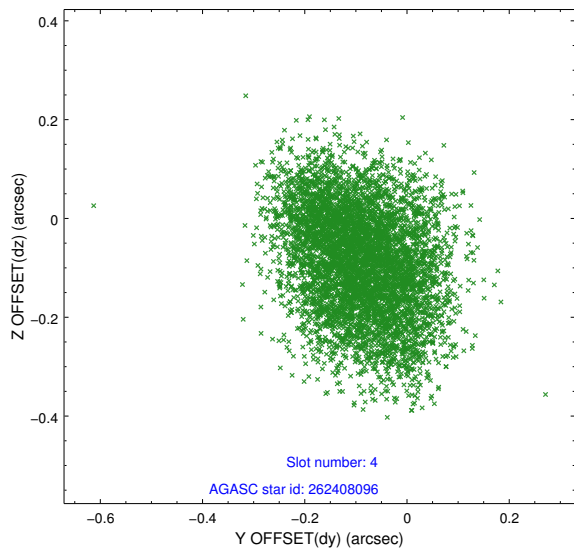
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.19	2653	0.030	-0.091	0.011	0.017	0.000000	0.000000	932.43	-1733.64
1	FID		ACIS-S-4	7.22	2653	0.296	0.054	0.010	0.016	0.000000	0.000000	2150.35	170.18
2	FID		ACIS-S-5	7.23	2654	-0.353	0.050	0.006	0.011	0.000000	0.000000	-1816.23	164.28
3	GUIDE	used	262407608	9.34	5303	0.069	-0.063	0.115	0.184	207.378401	26.435507	-633.21	440.91
4	GUIDE	used	262408096	9.32	5304	-0.090	-0.085	0.144	0.225	207.011678	26.515421	581.21	517.46
5	GUIDE	used	262408936	9.62	5298	0.002	0.114	0.144	0.229	207.154731	26.726554	366.16	-344.54
6	GUIDE	used	262408512	7.99	5307	0.007	0.287	0.109	0.164	207.800210	27.128796	-1176.85	-2346.54
7	GUIDE	used	262411960	9.64	5301	0.003	-0.250	0.155	0.248	207.327895	25.881727	-1072.45	2391.74

2.4 Star Slots

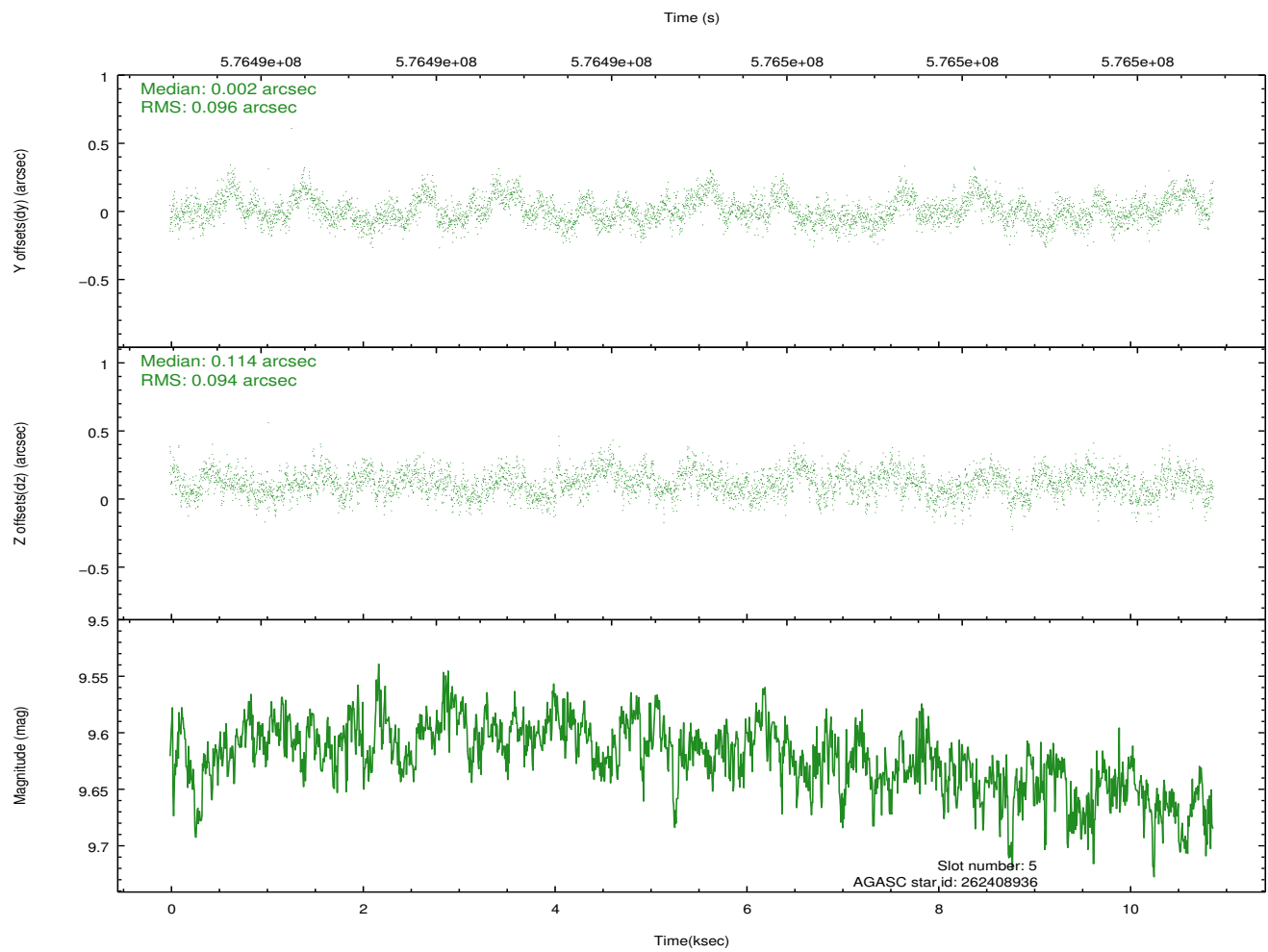
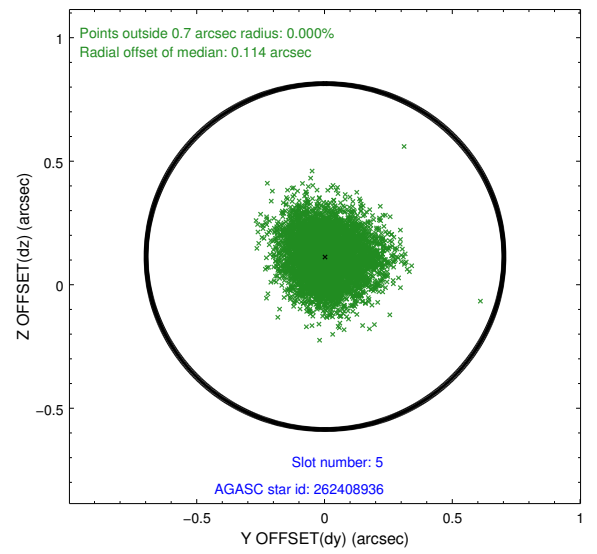
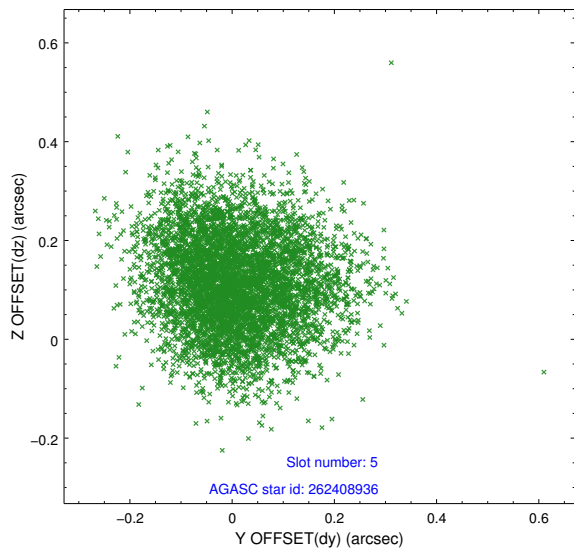
2.4.1 Slot 3



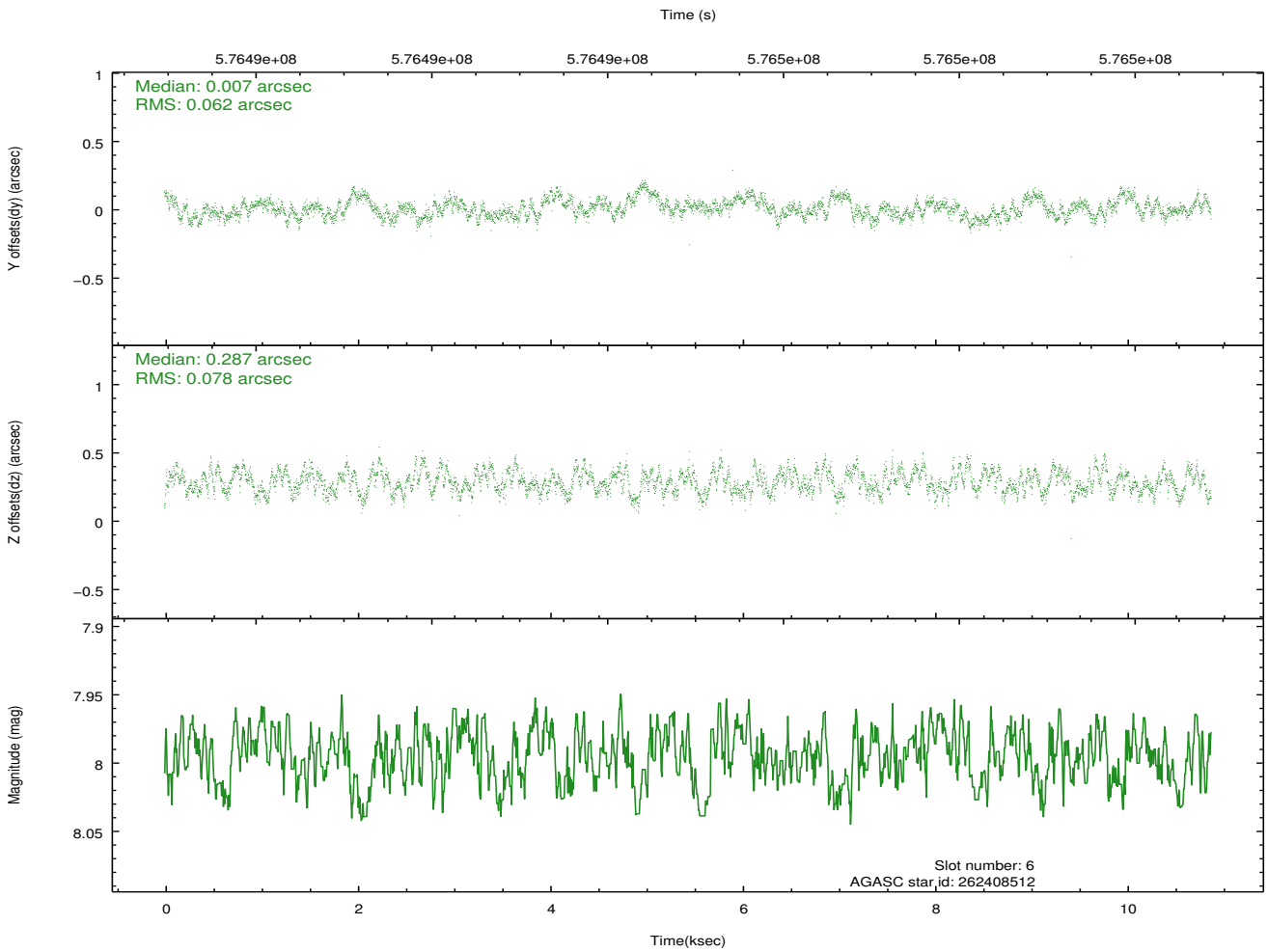
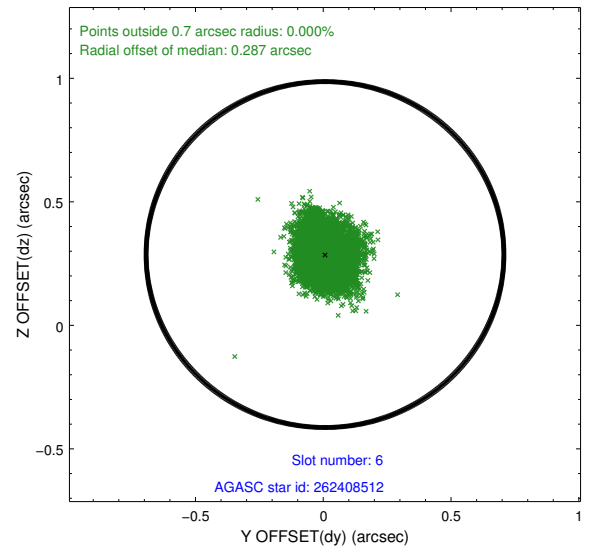
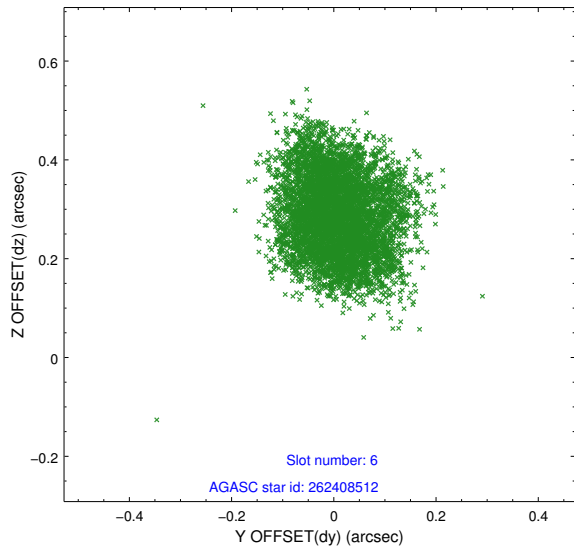
2.4.2 Slot 4



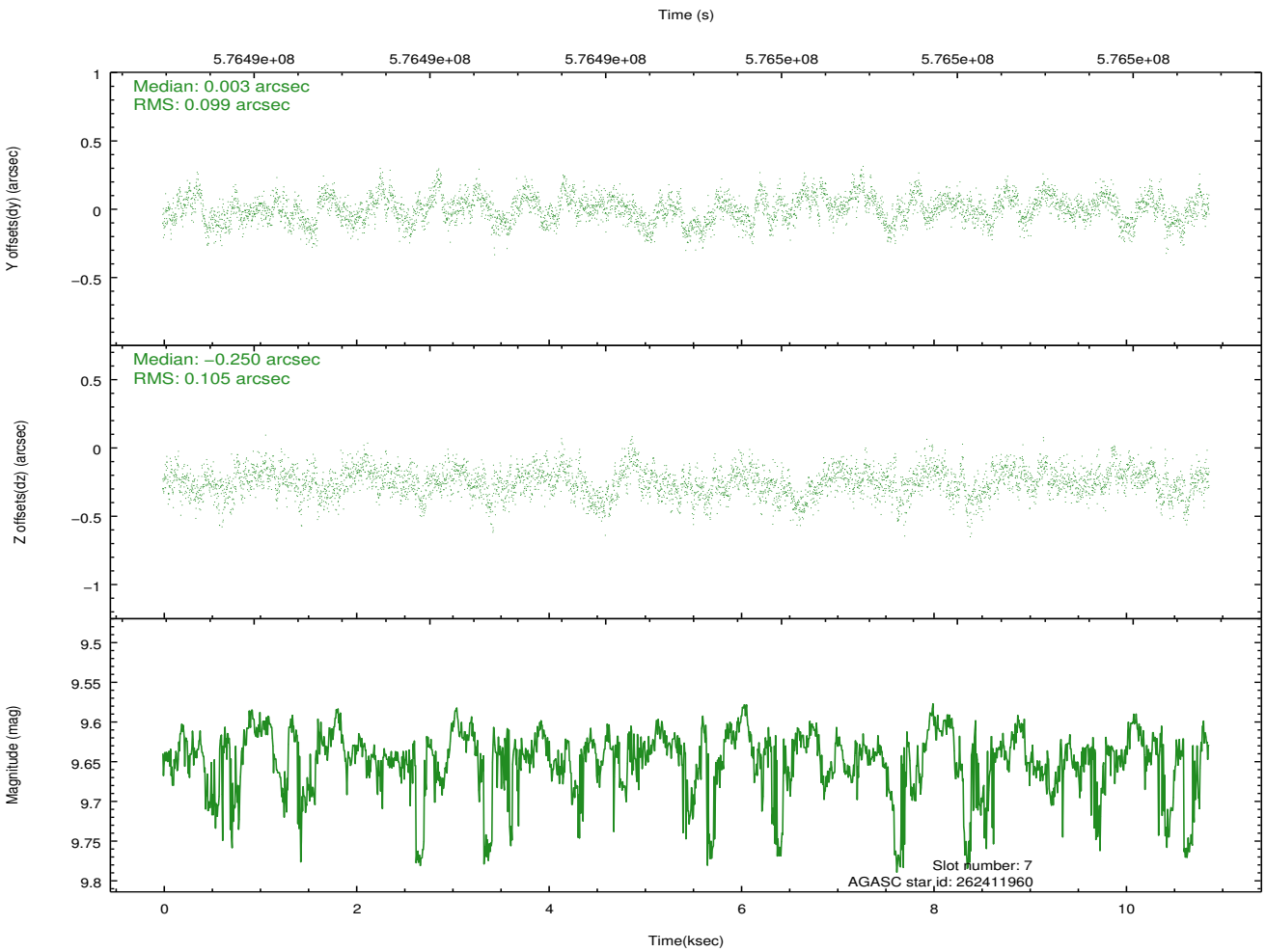
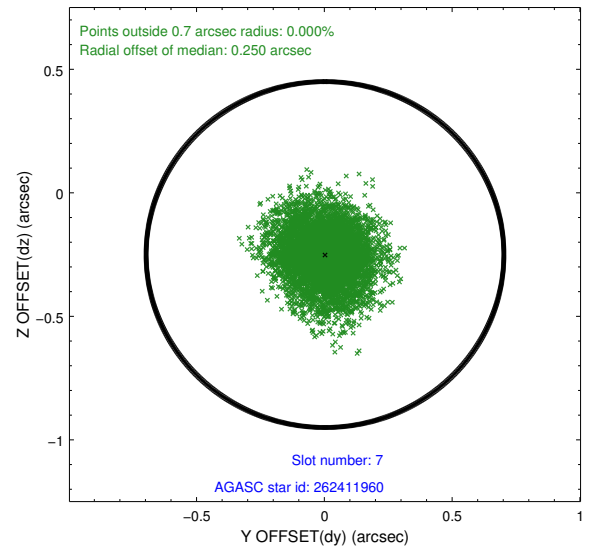
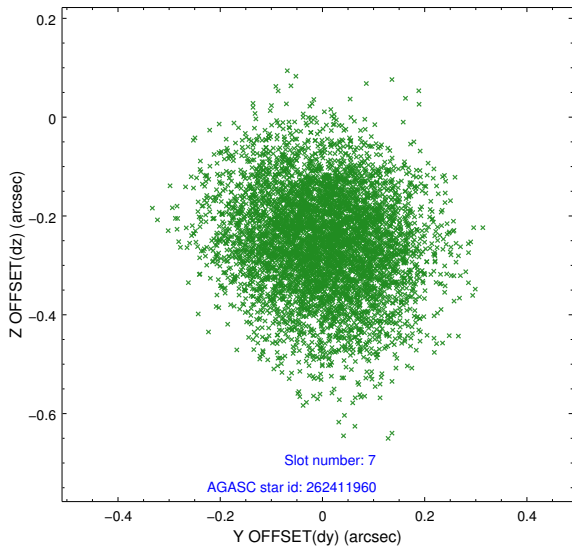
2.4.3 Slot 5



2.4.4 Slot 6

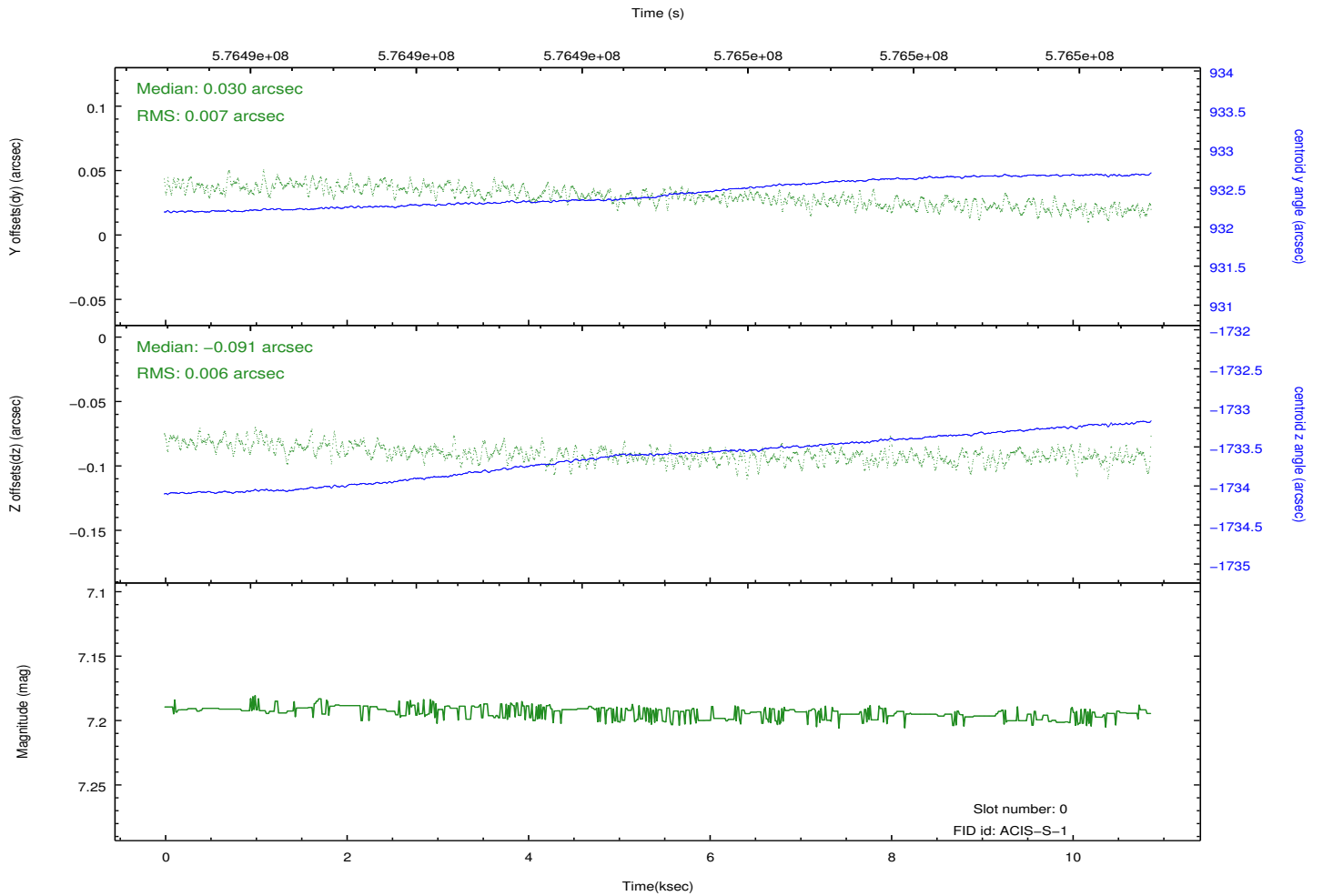
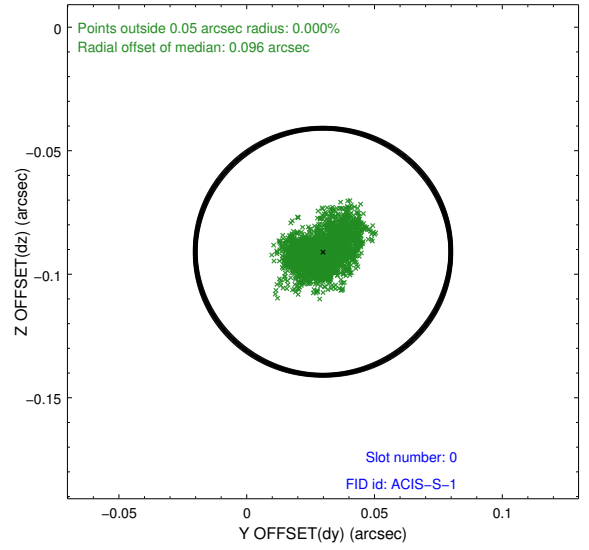
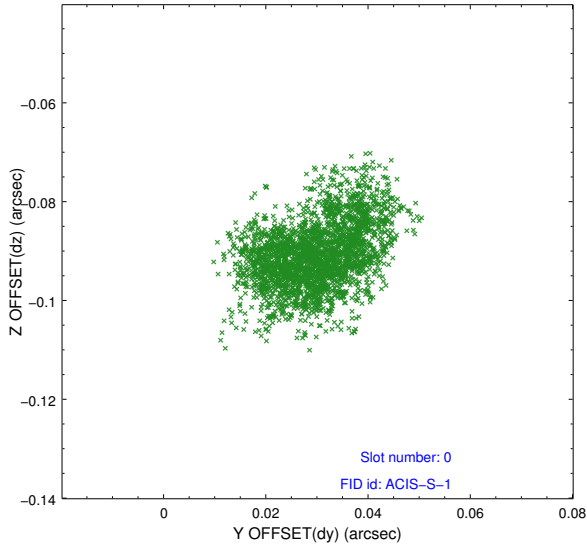


2.4.5 Slot 7

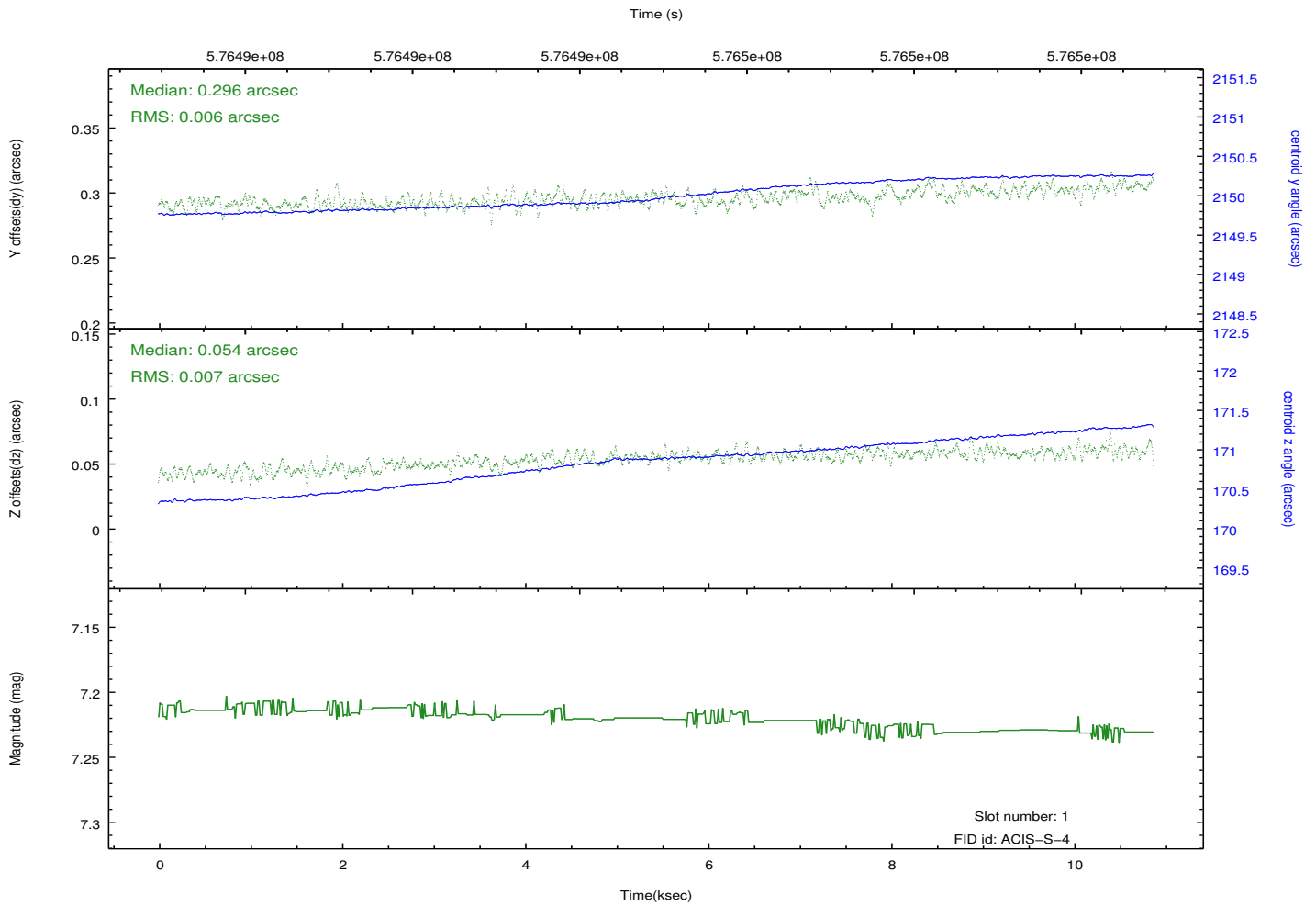
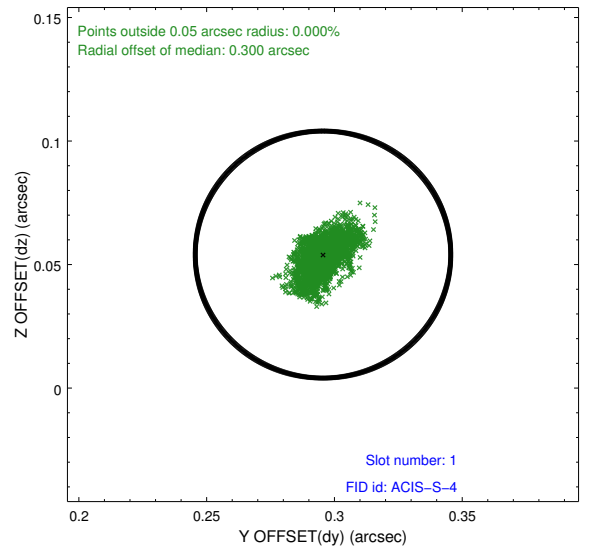
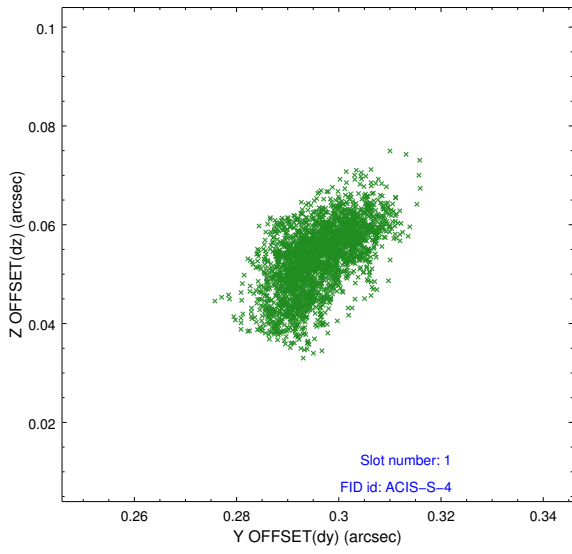


2.5 FID Slots

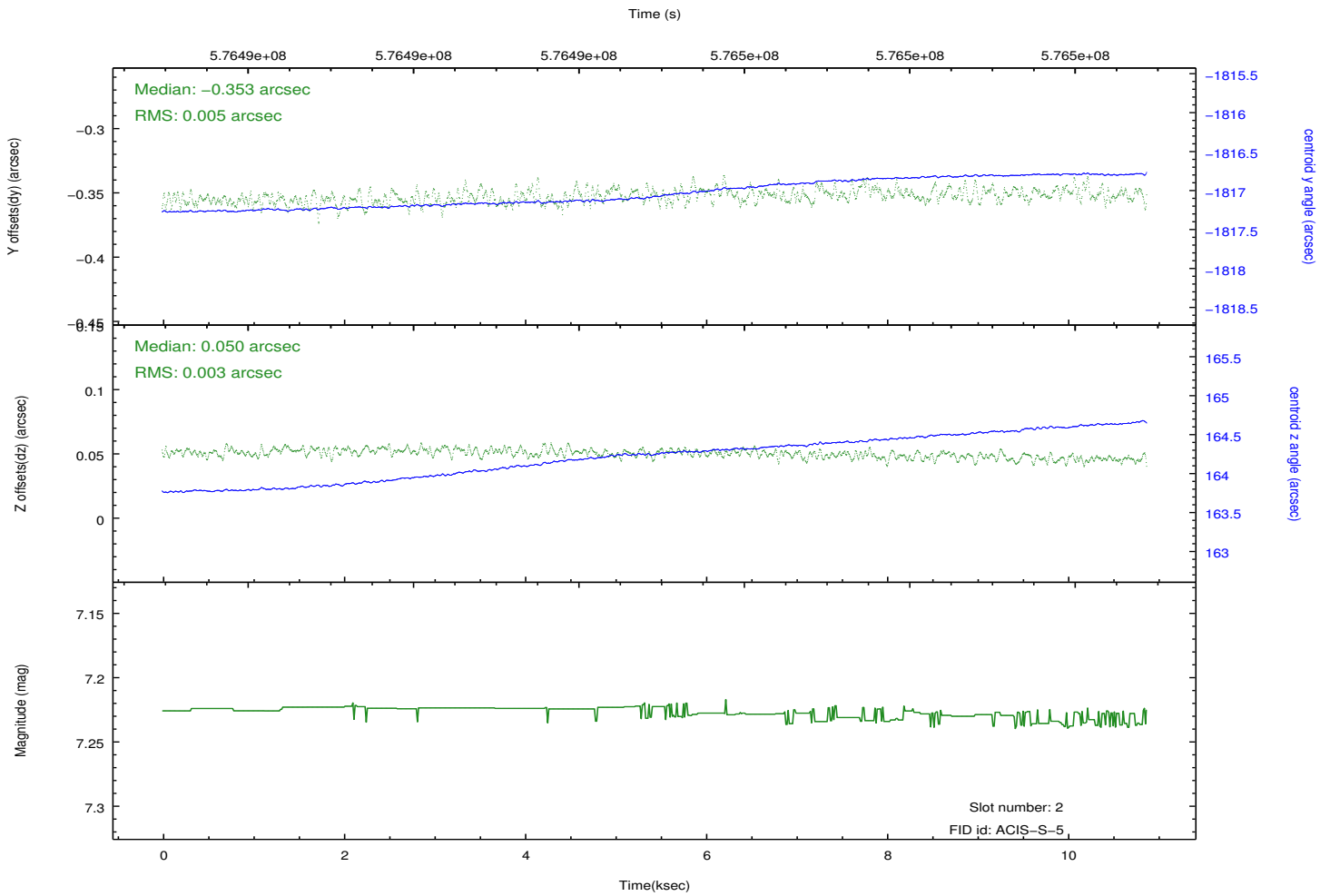
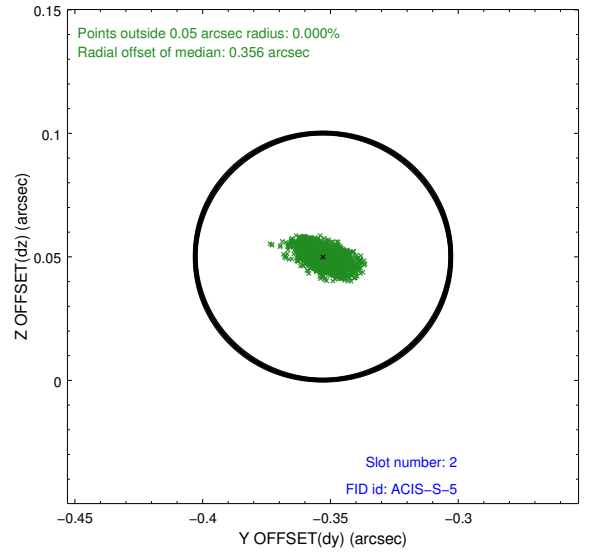
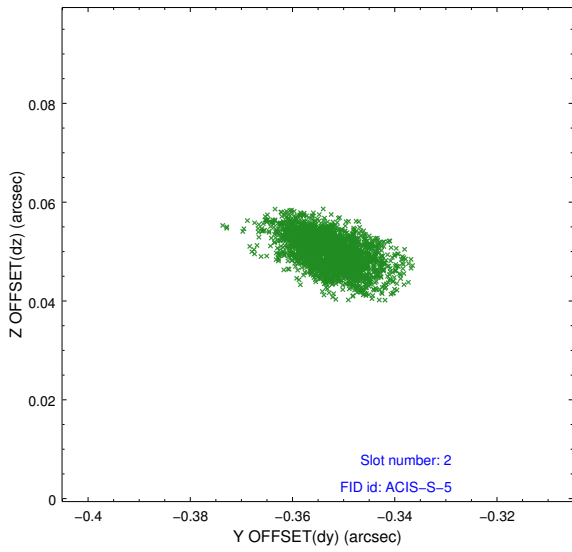
2.5.1 Slot 0



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)	2016.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.056400077462

A.2 Comments

Window preference met.