

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 20108 - L2 Version 1  
Chandra X-Ray Center

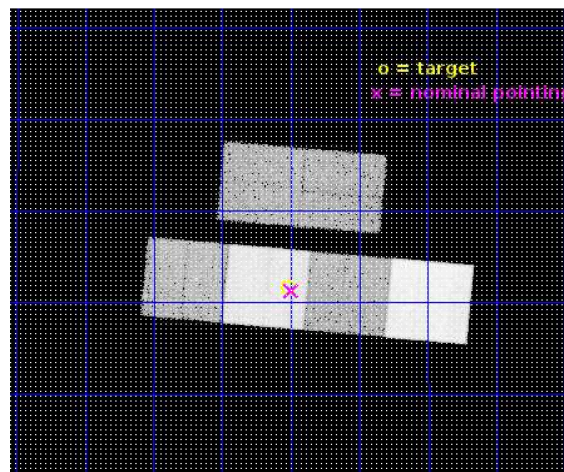
L2 Processing Date : Jul 13 2017

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# 1 Front

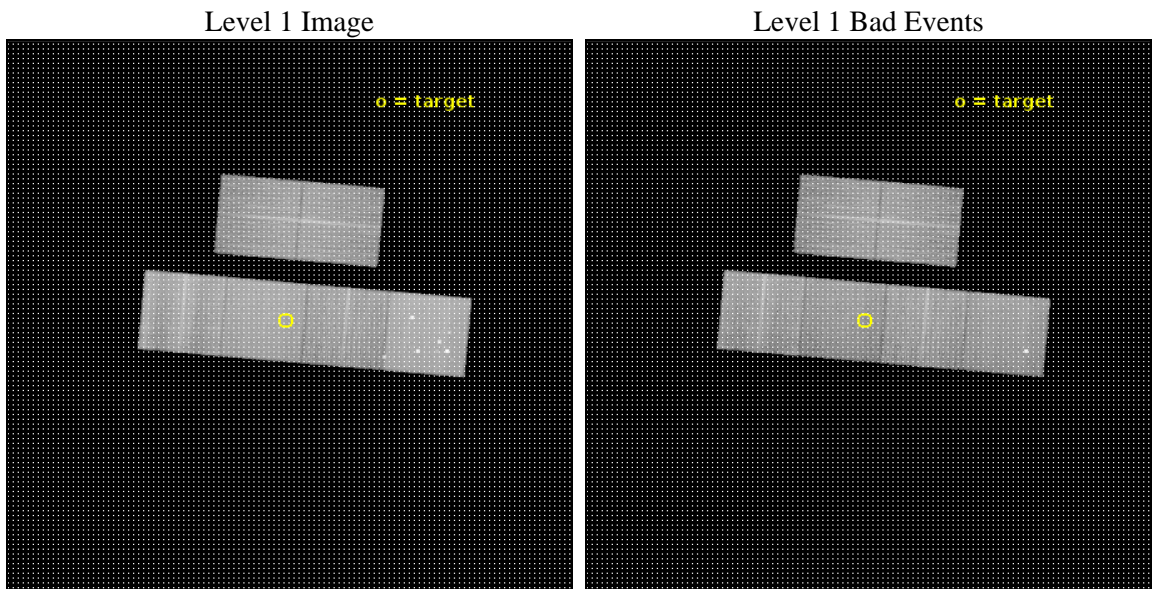
seq_num	201122	Sequence number
obs_id	20108	Observation id
title	Using the sharp Chandra's eyes to find a neutron star lurking in the wind of WR124	Proposal title
observer	Lidia Oskinova	Principal investigator
object	WR 124	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.87875	Observer's specified target RA [deg]
dec_targ	16.860583	Observer's specified target Dec [deg]
ra_nom	287.87389259681	Nominal RA [deg]
dec_nom	16.855175644494	Nominal Dec [deg]
roll_nom	185.15805814671	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24952.896415353	Sum of GTIs [s]
livetime	24636.927816111	Livetime [s]
ontime2	24952.937455297	Sum of GTIs [s]
ontime3	24952.773295283	Sum of GTIs [s]
ontime5	24952.85537529	Sum of GTIs [s]
ontime6	24952.814335346	Sum of GTIs [s]
ontime7	24952.896415353	Sum of GTIs [s]
ontime8	24952.73225534	Sum of GTIs [s]
l2events	302391	Number of level 2 events



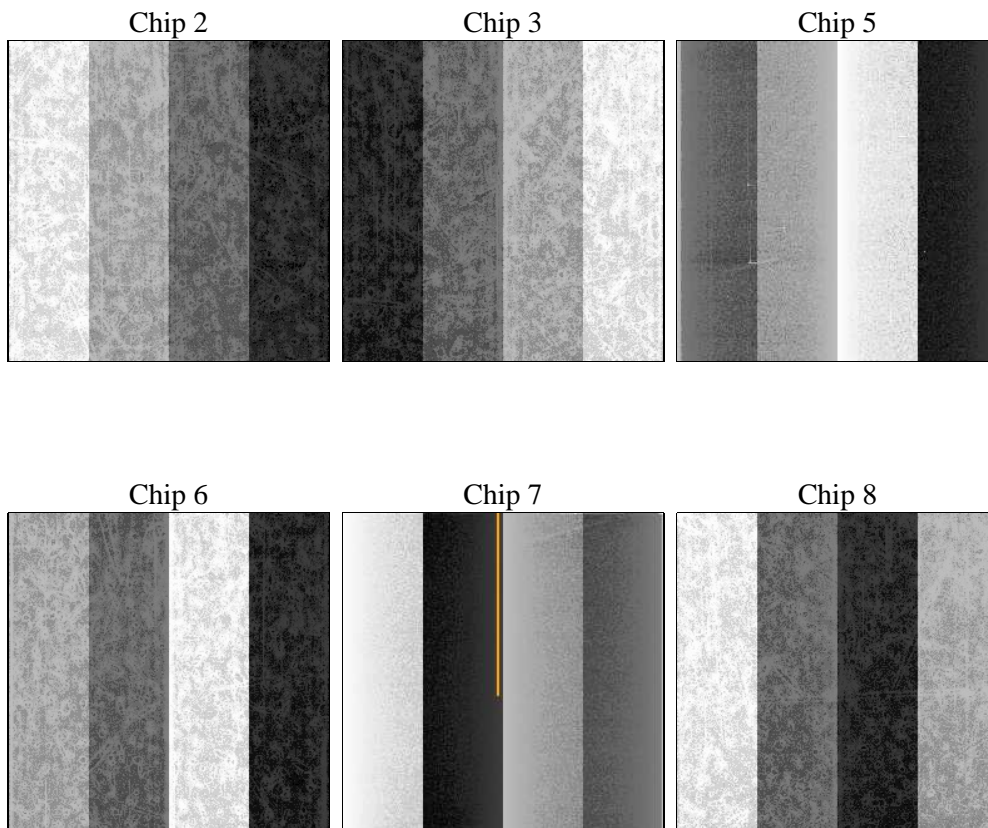
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	24952.896415353	Sum of GTIs [s]
caldbver	4.7.5	&#160	ontime2	24952.937455297	Sum of GTIs [s]
date	2017-07-13T14:45:25	Date and time of file creation	ontime3	24952.773295283	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	24952.85537529	Sum of GTIs [s]
			ontime6	24952.814335346	Sum of GTIs [s]
			ontime7	24952.896415353	Sum of GTIs [s]
			ontime8	24952.73225534	Sum of GTIs [s]
			l1events	1314848	Number of level 1 events

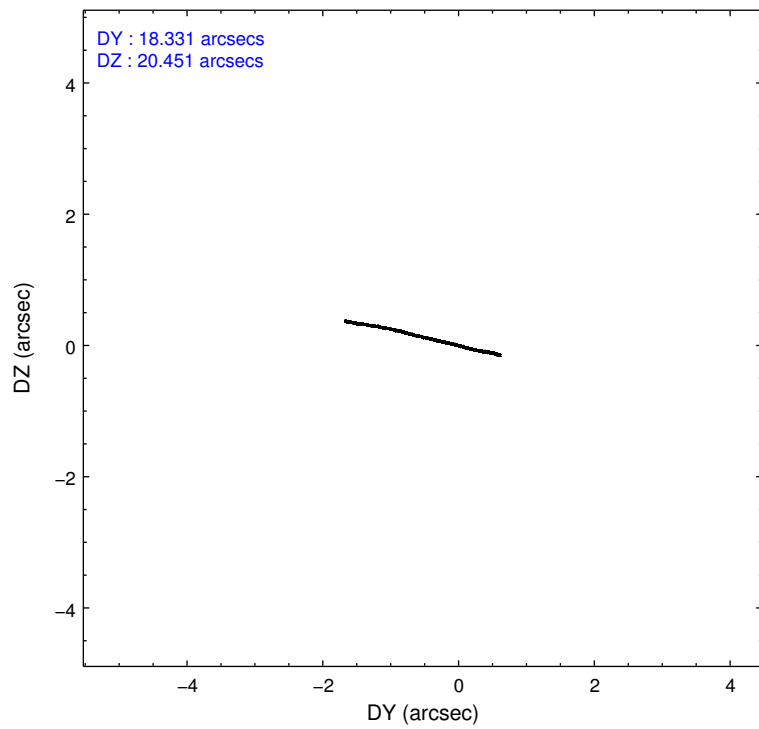
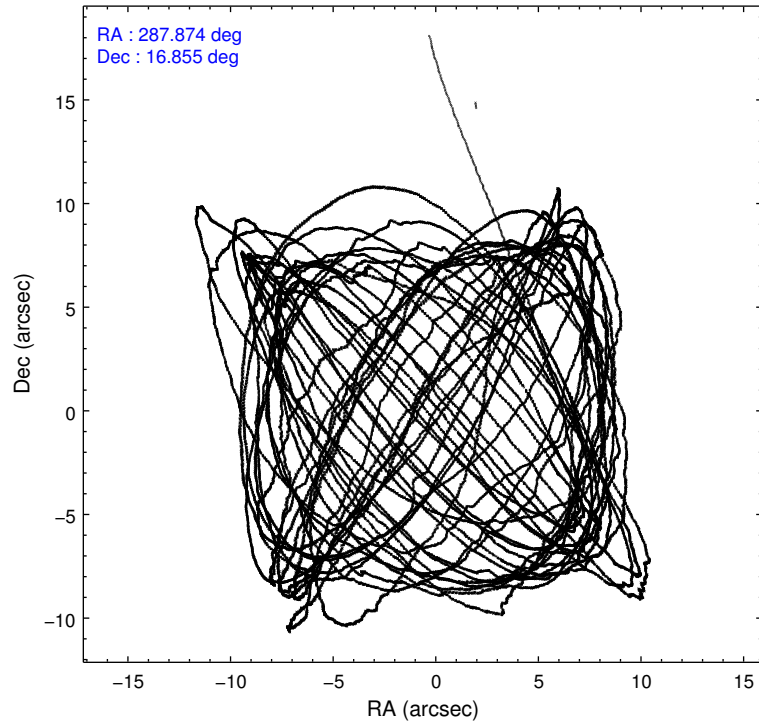
### 2.1.4 Events

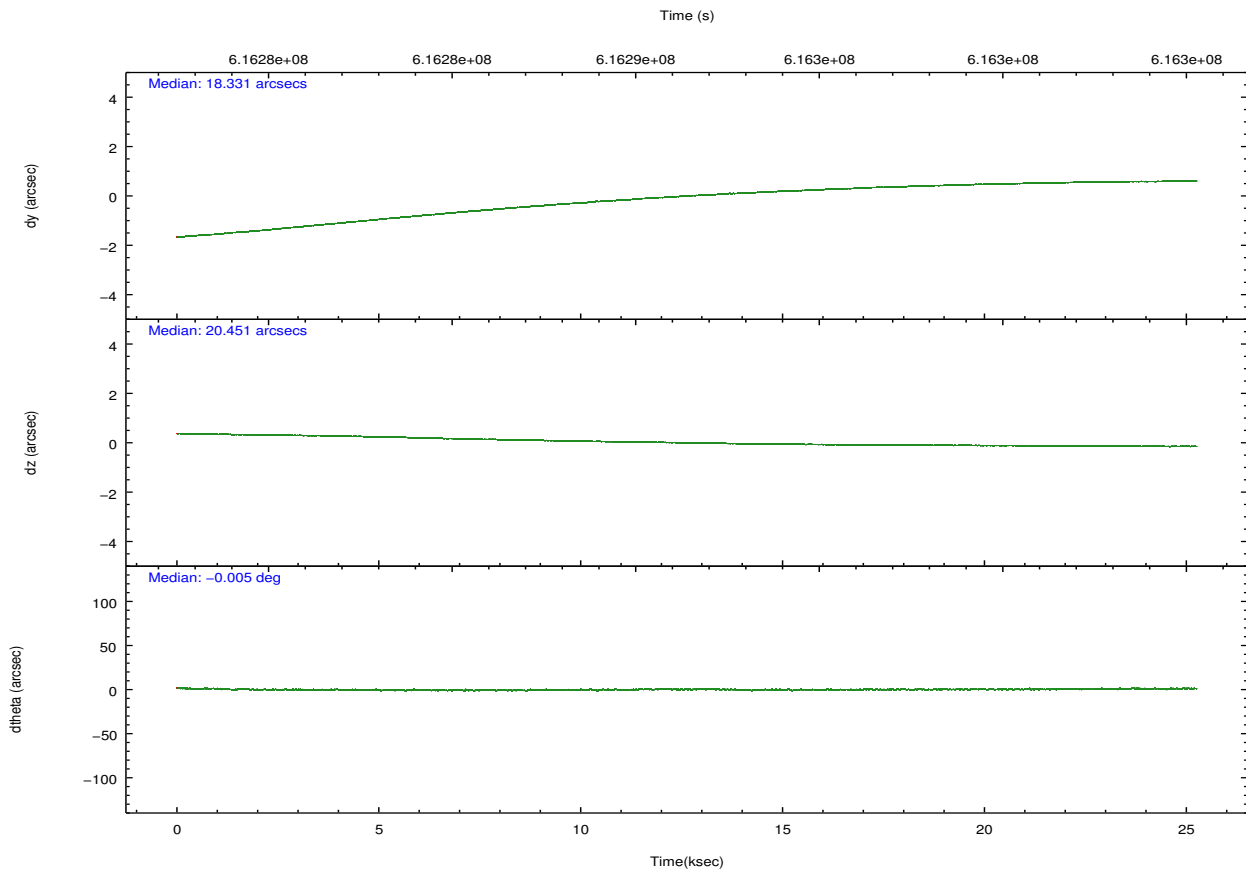
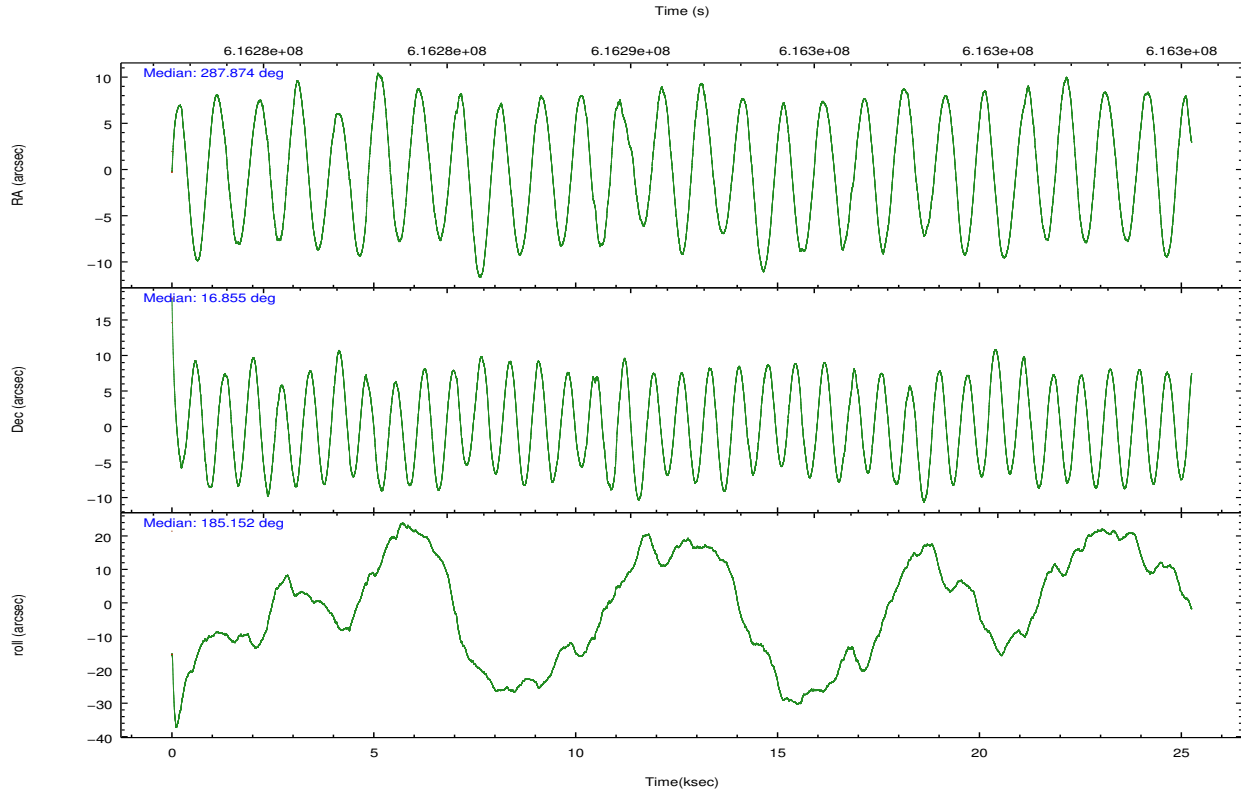
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	182195	171954	308436	184428	233587	234248	grade 0 events	6774	6444	24489	6883	8689	17680
rejected events	162563	153435	154138	163644	131429	170674		3%	3%	7%	3%	3%	7%
rejected %	89%	89%	49%	88%	56%	72%	grade 1 events	128	95	659	93	358	172
								0%	0%	0%	0%	0%	0%
							grade 2 events	5022	4080	44873	4809	21755	16000
								2%	2%	14%	2%	9%	6%
							grade 3 events	1966	2045	4911	2063	8337	6449
								1%	1%	1%	1%	3%	2%
							grade 4 events	1970	1971	4943	2125	8319	6048
								1%	1%	1%	1%	3%	2%
							grade 5 events	7561	8492	21016	8679	23684	13098
								4%	4%	6%	4%	10%	5%
							grade 6 events	3905	3985	75120	4909	55083	17401
								2%	2%	24%	2%	23%	7%
							grade 7 events	154869	144842	132425	154867	107362	157400
								85%	84%	42%	83%	45%	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	287.897086	287.8738925968068	CCD I2 on	Y	Y
[deg] Pointing Dec	16.871291	16.85517564449361	CCD I3 on	Y	Y
[deg] Pointing Roll	184.994679	185.158058146712	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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)	616279008.184000	616277983.08094	CCD S5 on	N	N
Observation start date	2017-07-12T20:35:39	2017-07-12T20:19:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	616304008.184000	616305024.12002	On-chip summing requested	N	N
Observation end date	2017-07-13T03:32:19	2017-07-13T03:50:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



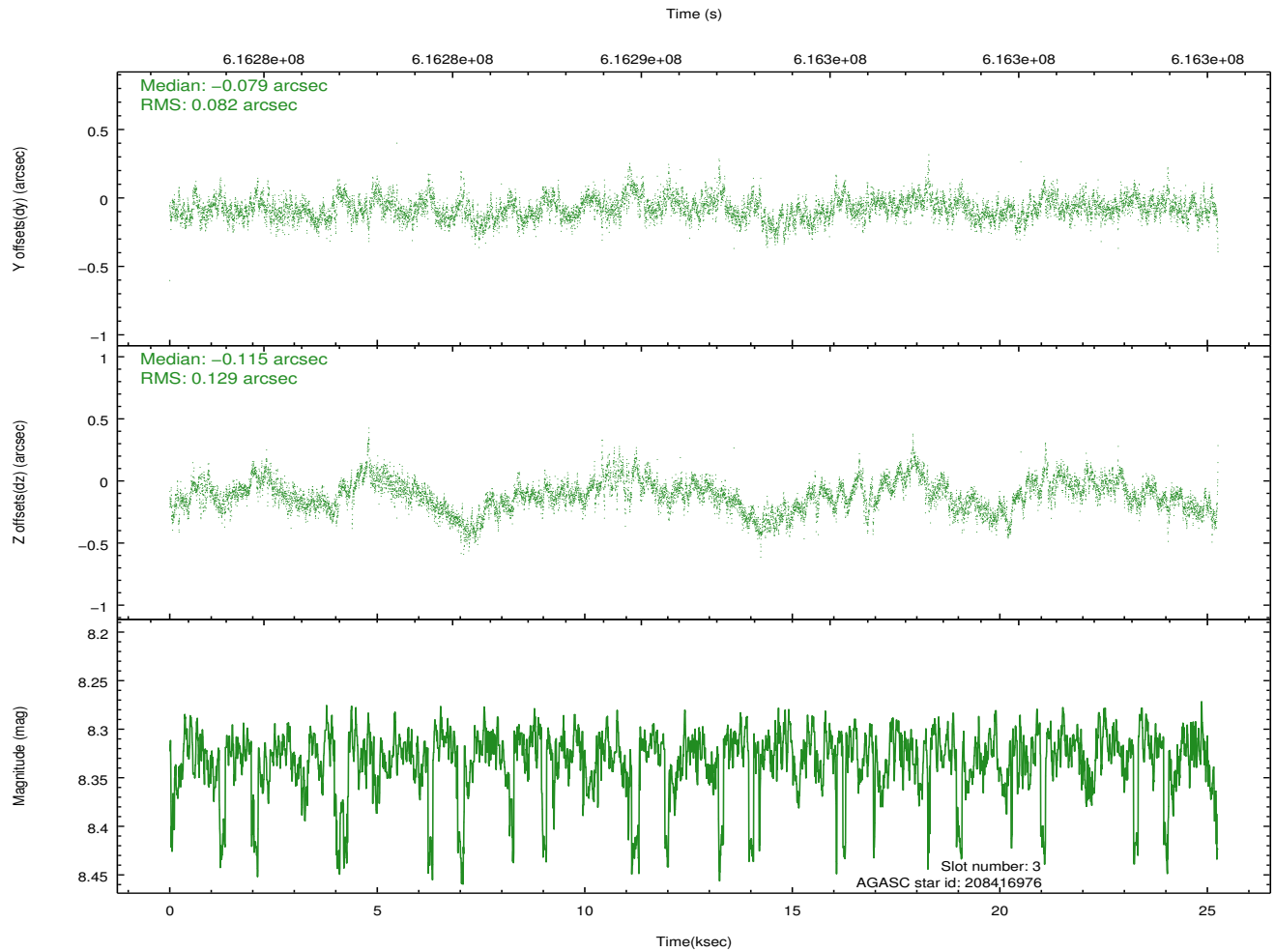
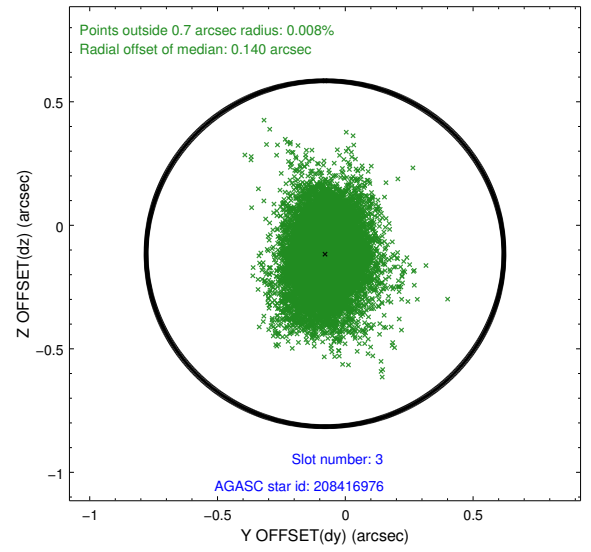
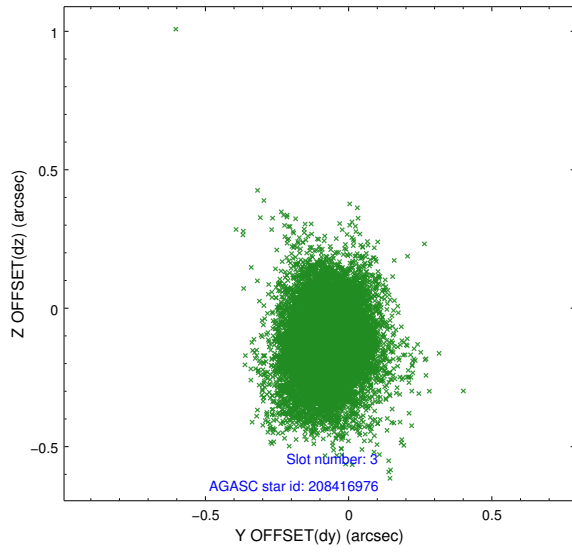


### Slot Statistics

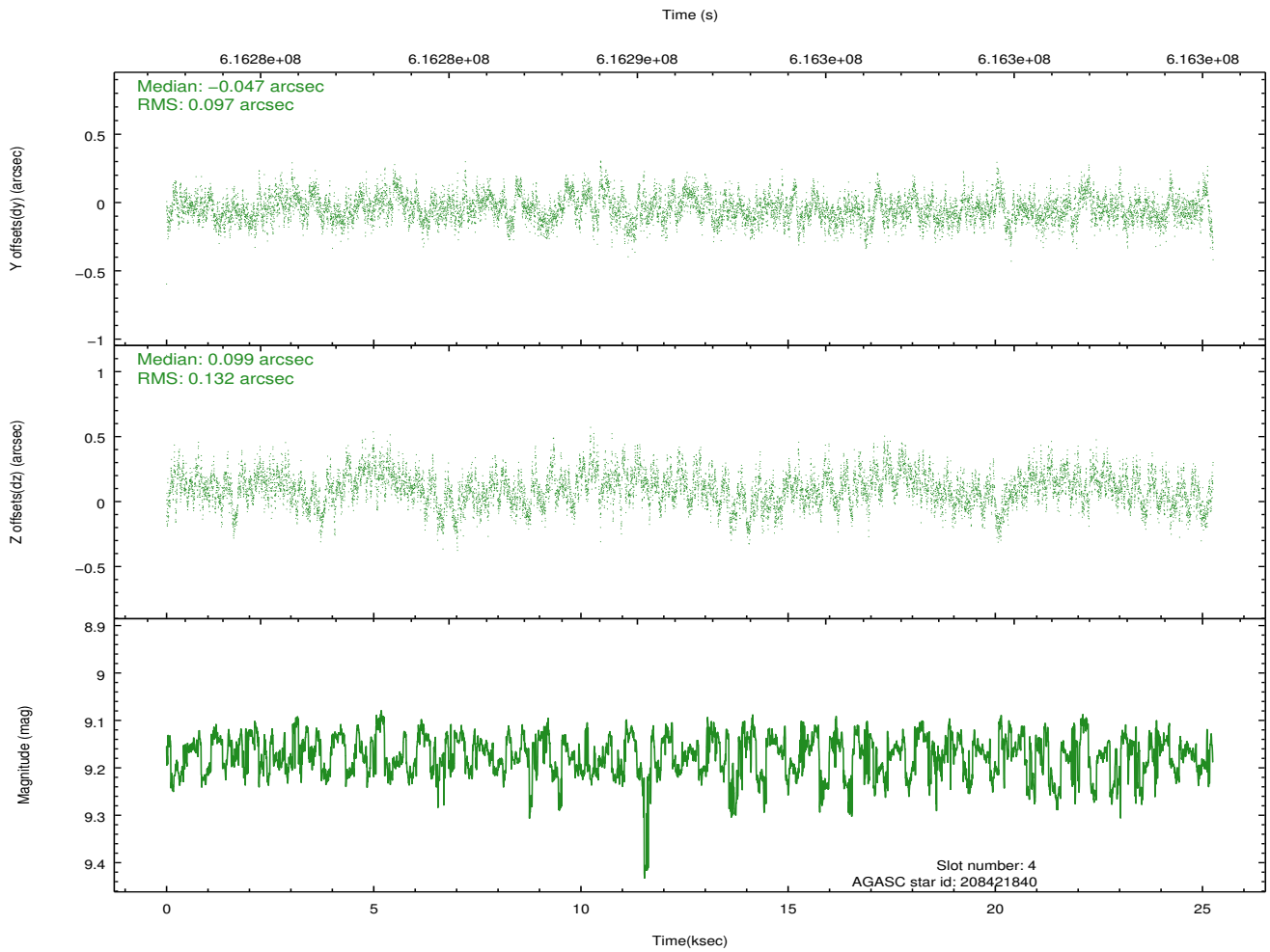
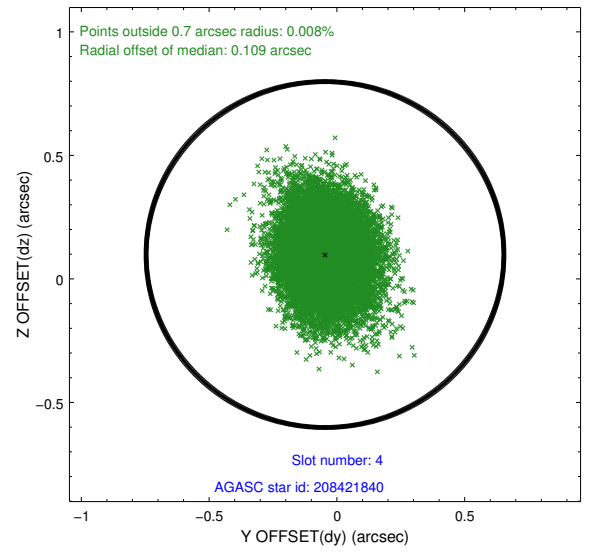
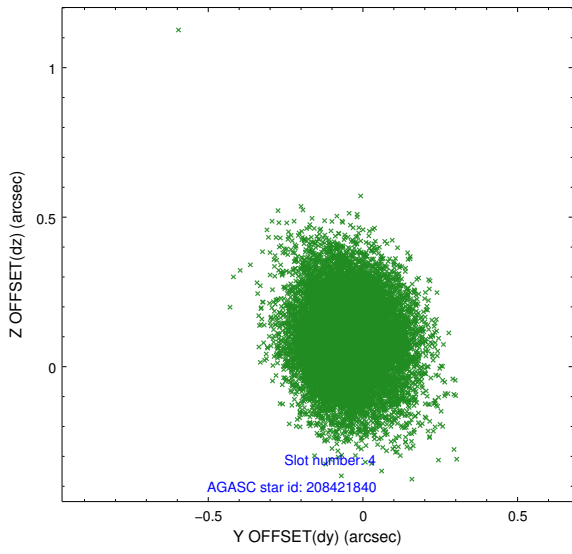
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	6160	-0.219	-0.086	0.024	0.032	0.000000	0.000000	-771.37	-1742.12
1	FID		ACIS-S-4	7.10	6160	0.523	0.130	0.029	0.049	0.000000	0.000000	2142.56	166.51
2	FID		ACIS-S-5	7.09	6161	-0.329	-0.037	0.012	0.029	0.000000	0.000000	-1824.20	160.07
3	GUIDE	used	208416976	8.33	12314	-0.079	-0.115	0.157	0.274	287.326965	17.073967	1892.17	-899.41
4	GUIDE	used	208421840	9.17	12308	-0.047	0.099	0.172	0.284	287.570311	16.918850	1106.91	-269.18
5	GUIDE	used	209596088	9.31	12312	-0.057	-0.352	0.191	0.315	288.150718	16.305149	-695.12	2105.72
6	GUIDE	used	210120944	8.39	12308	0.215	0.548	0.164	0.288	288.245736	17.506735	-1390.83	-2175.08
7	GUIDE	used	209585448	7.93	12316	-0.041	-0.169	0.118	0.201	288.114724	16.850123	-741.93	144.13

## 2.4 Star Slots

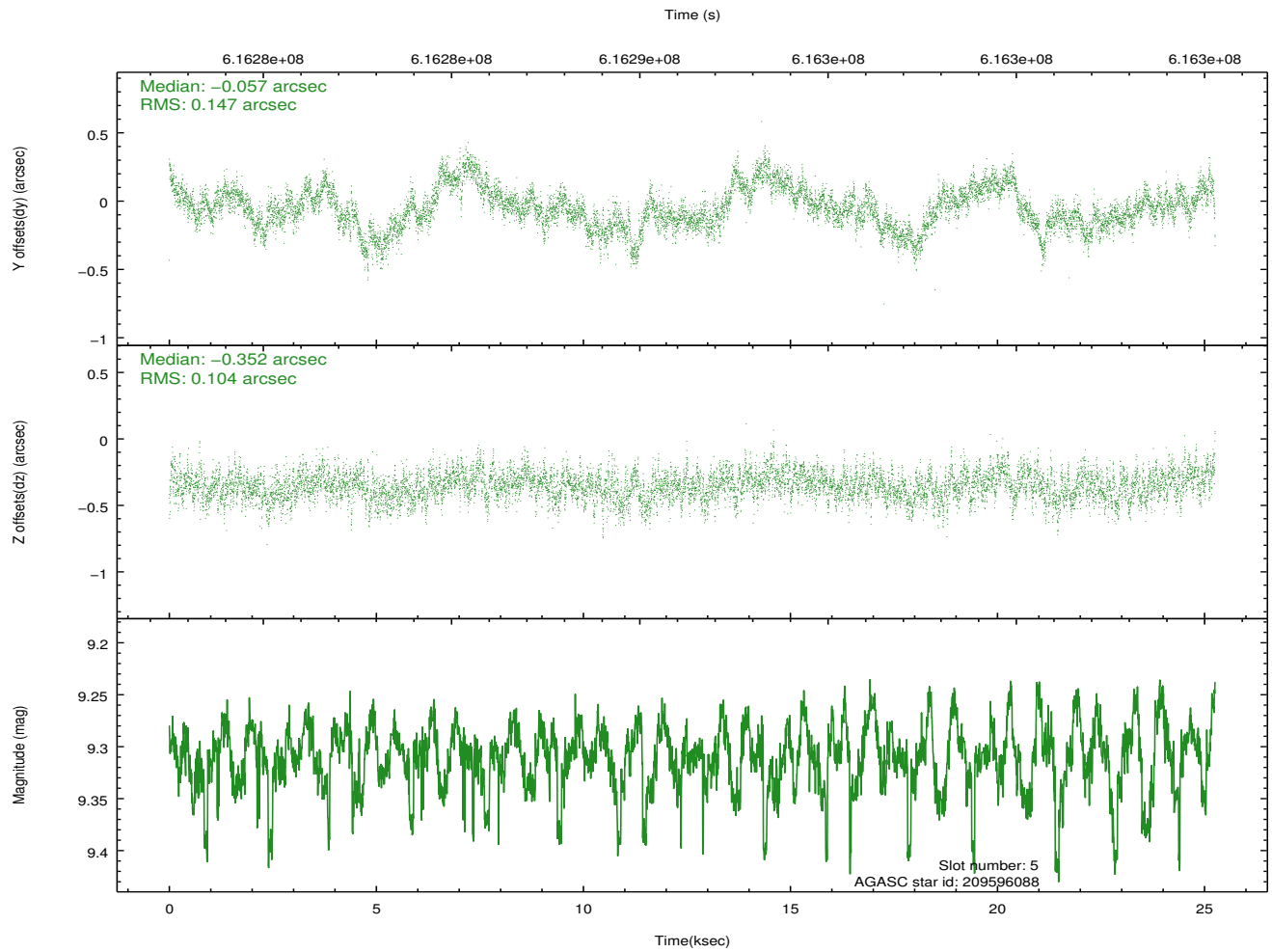
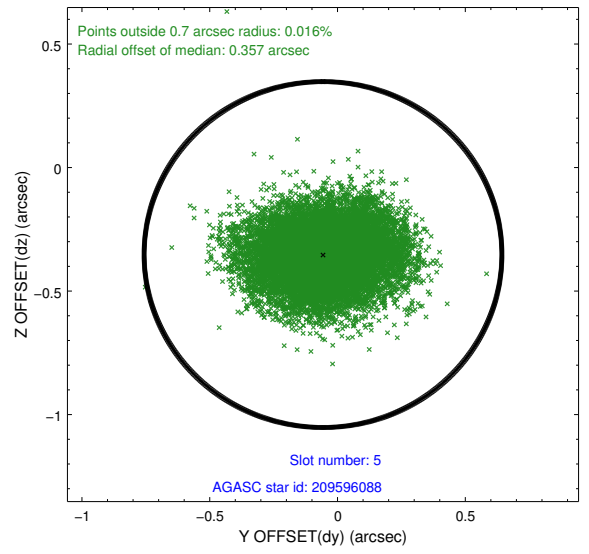
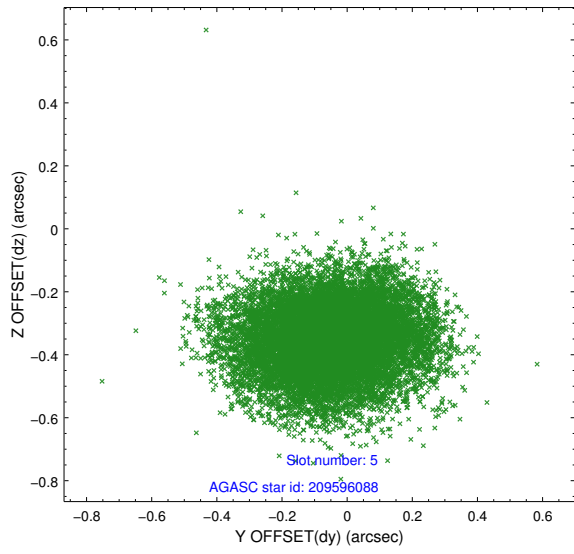
### 2.4.1 Slot 3



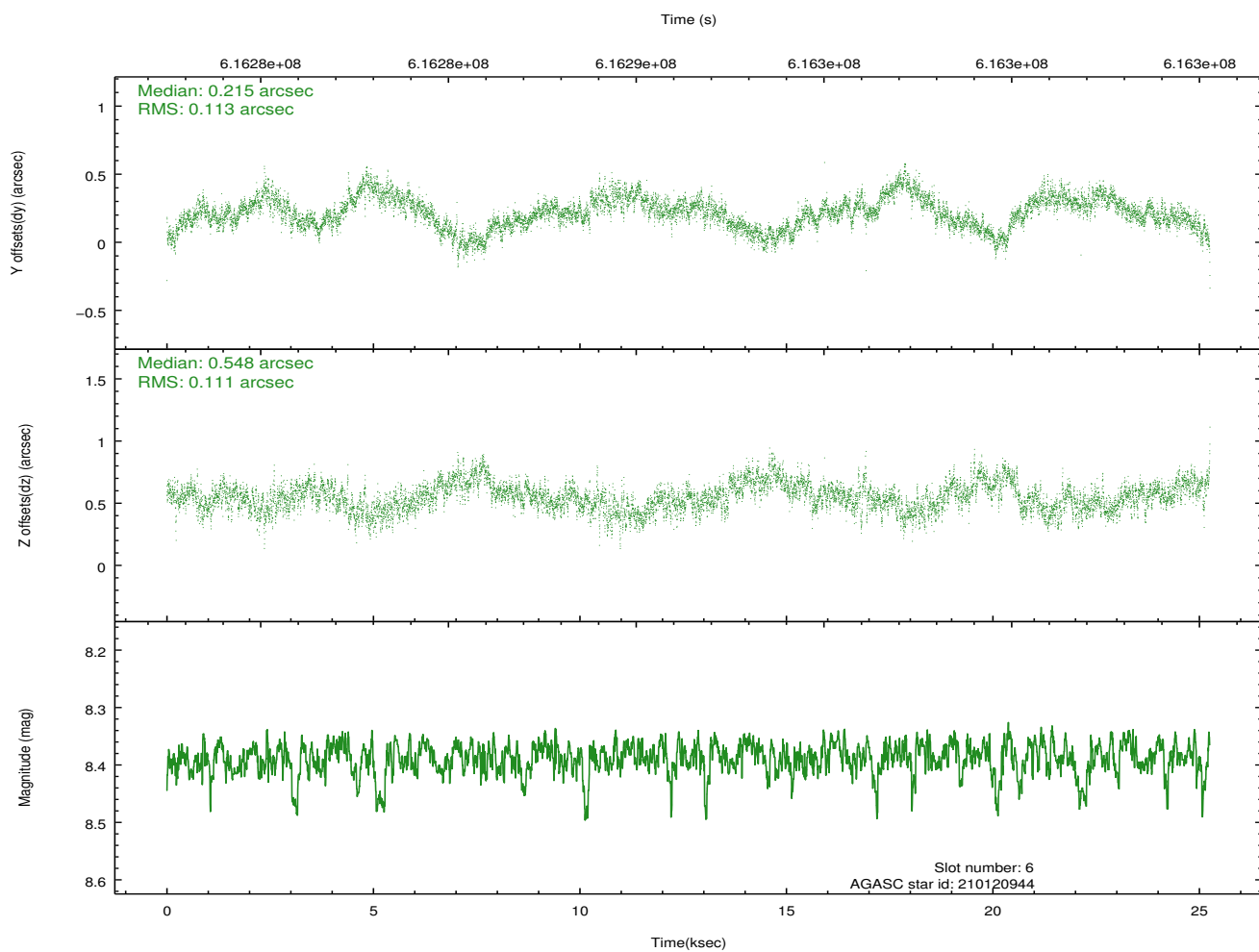
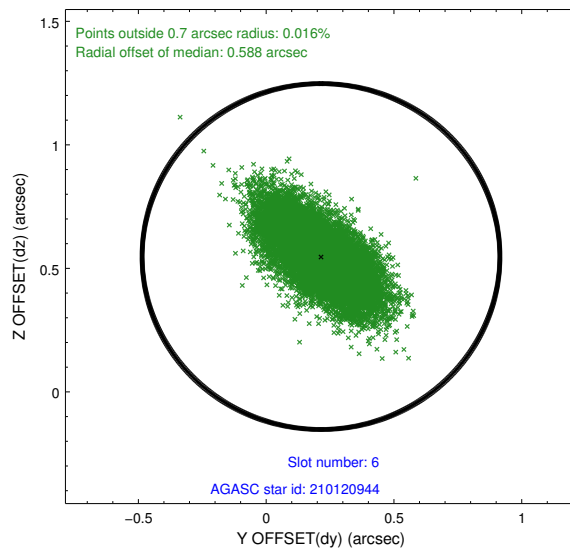
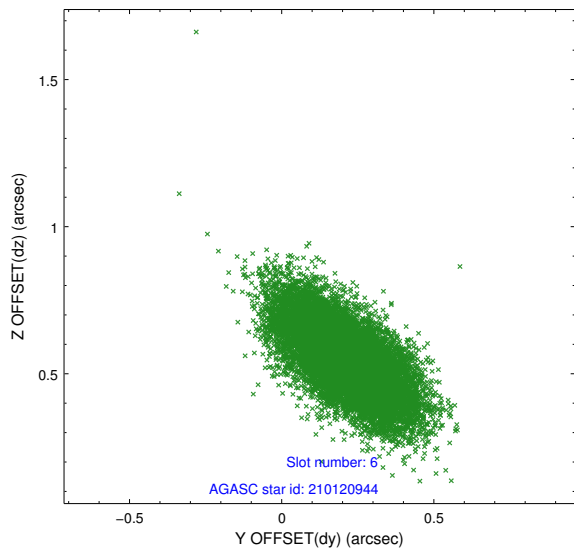
### 2.4.2 Slot 4



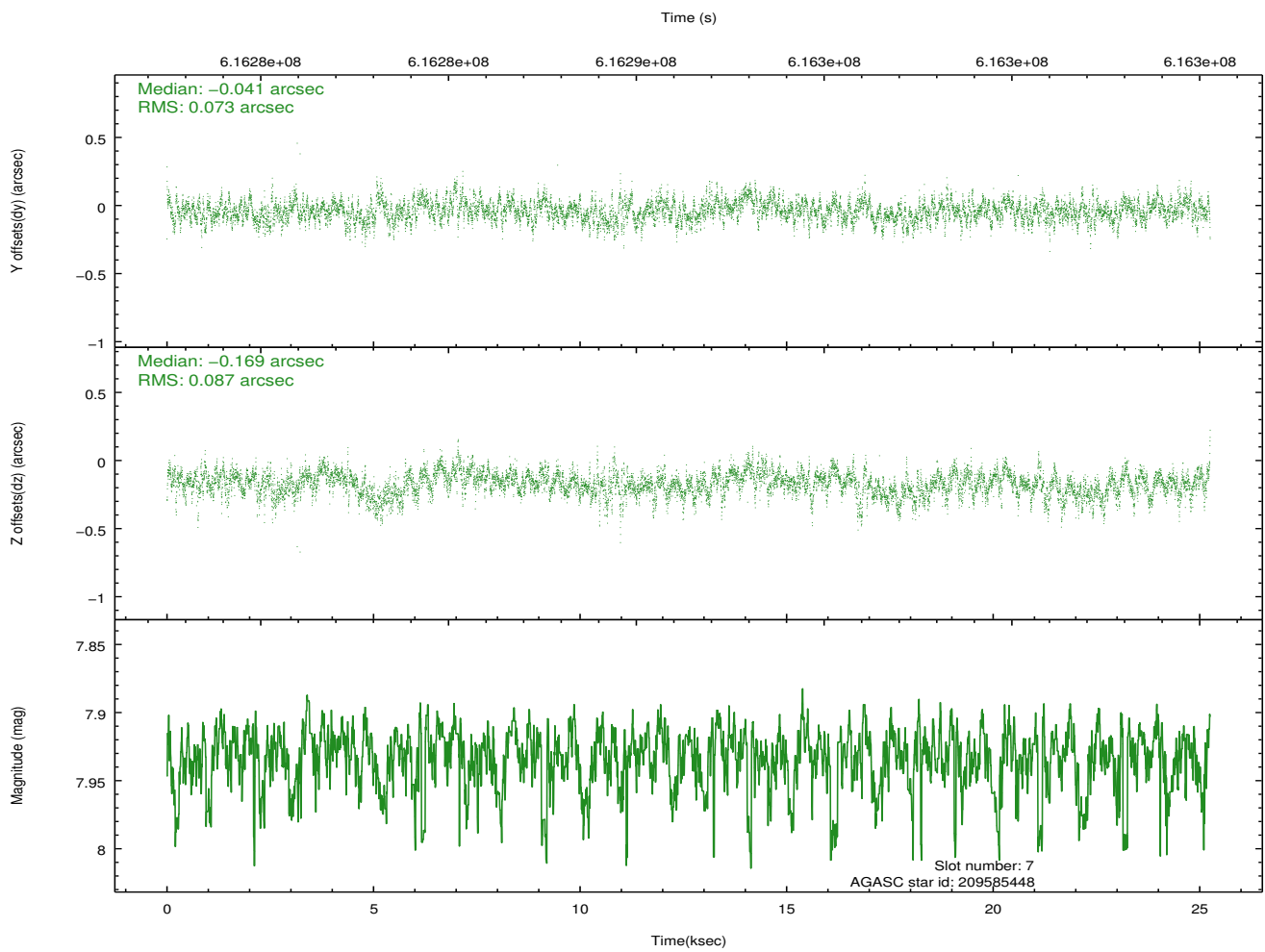
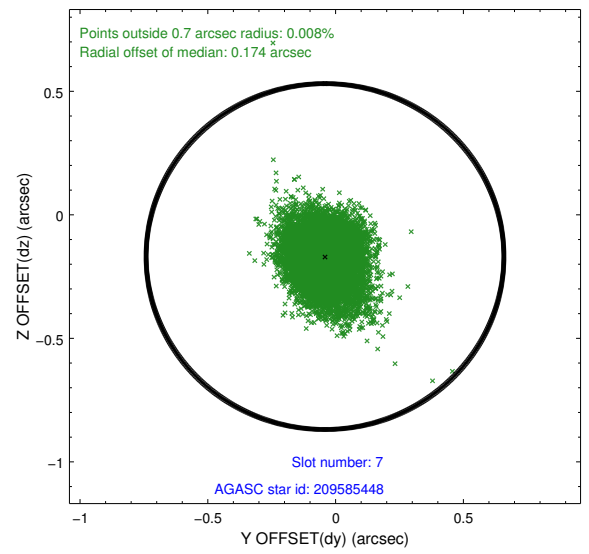
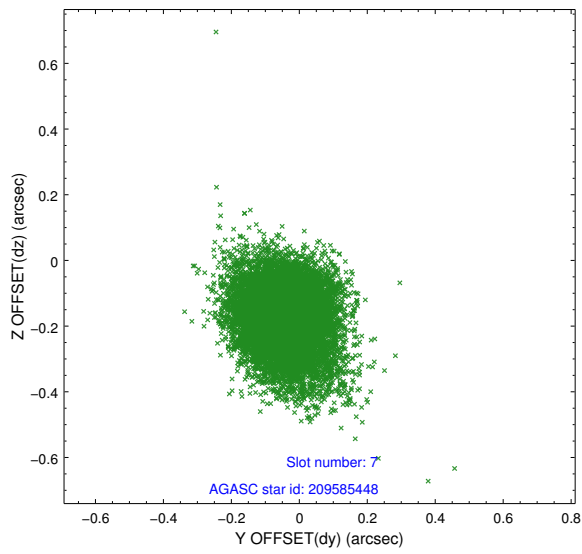
### 2.4.3 Slot 5



## 2.4.4 Slot 6

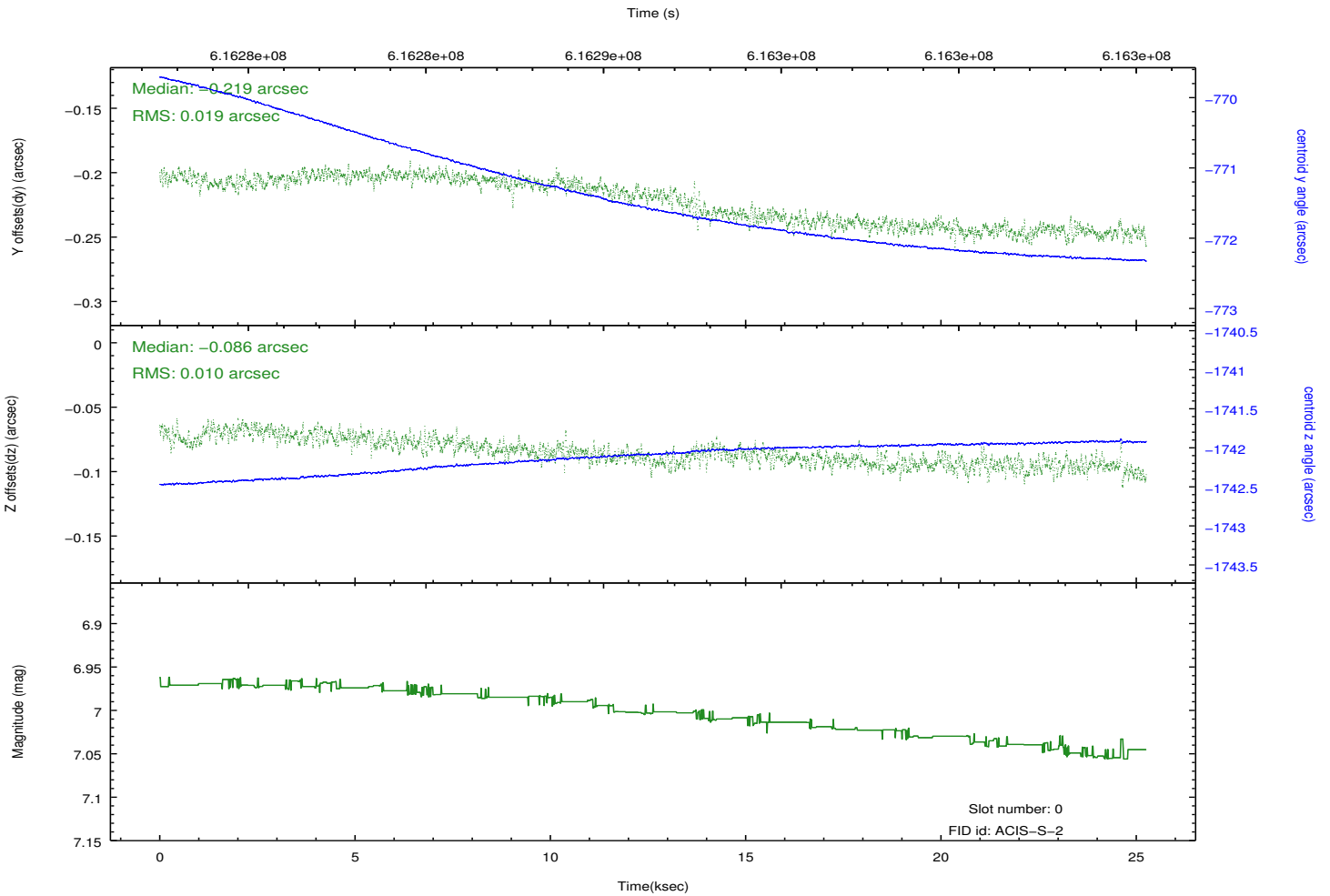
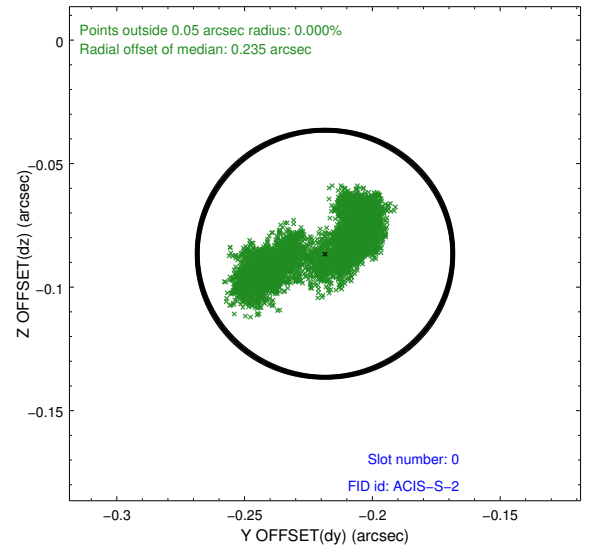
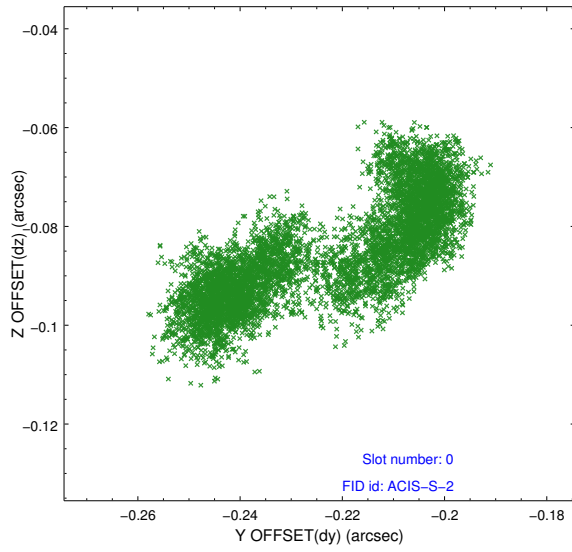


## 2.4.5 Slot 7

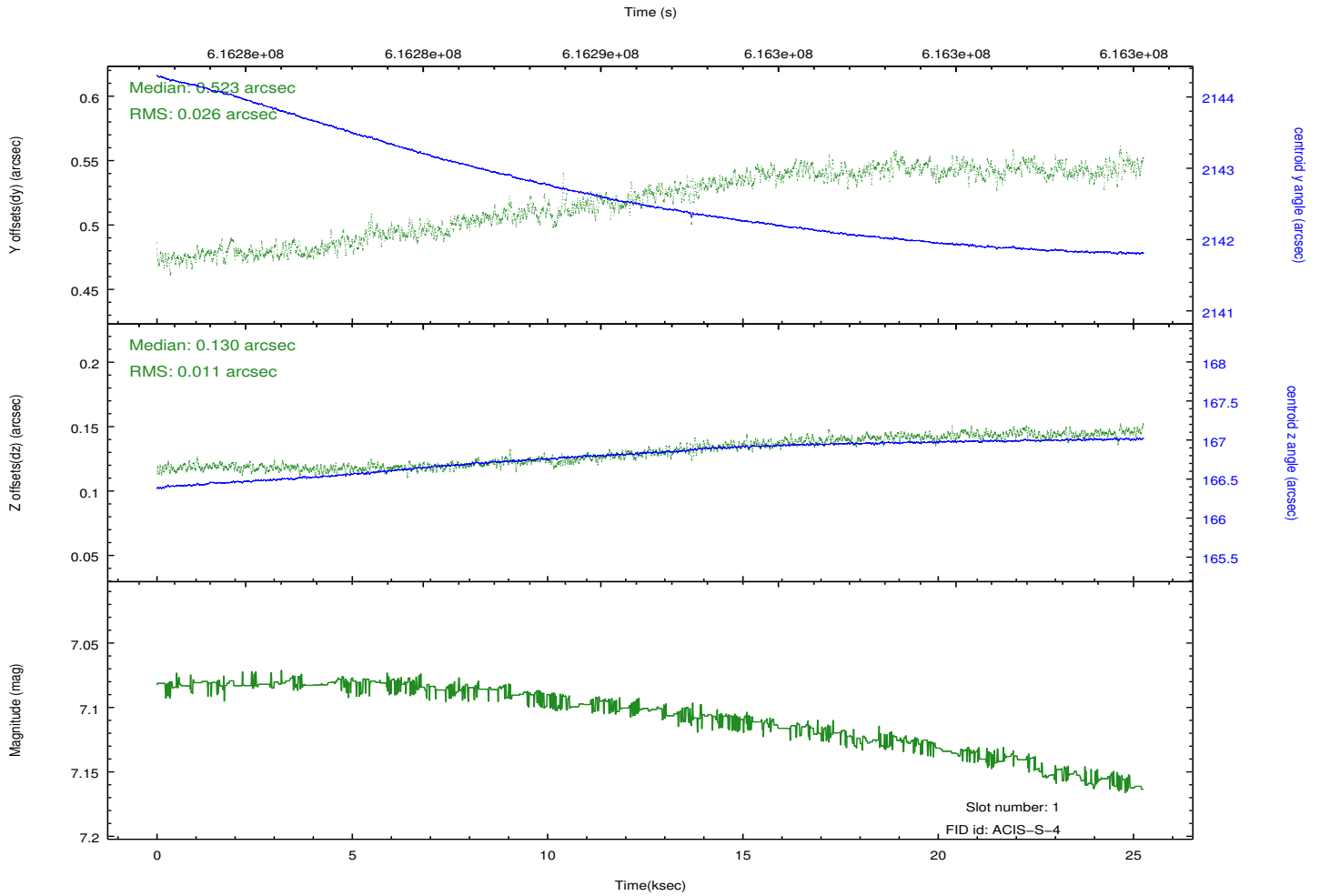
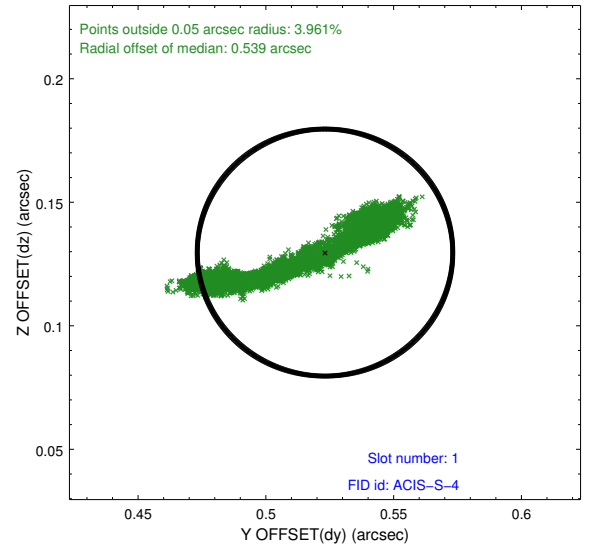
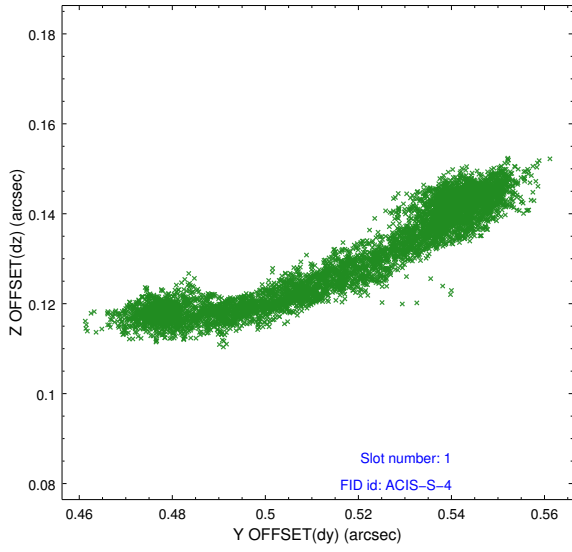


## 2.5 FID Slots

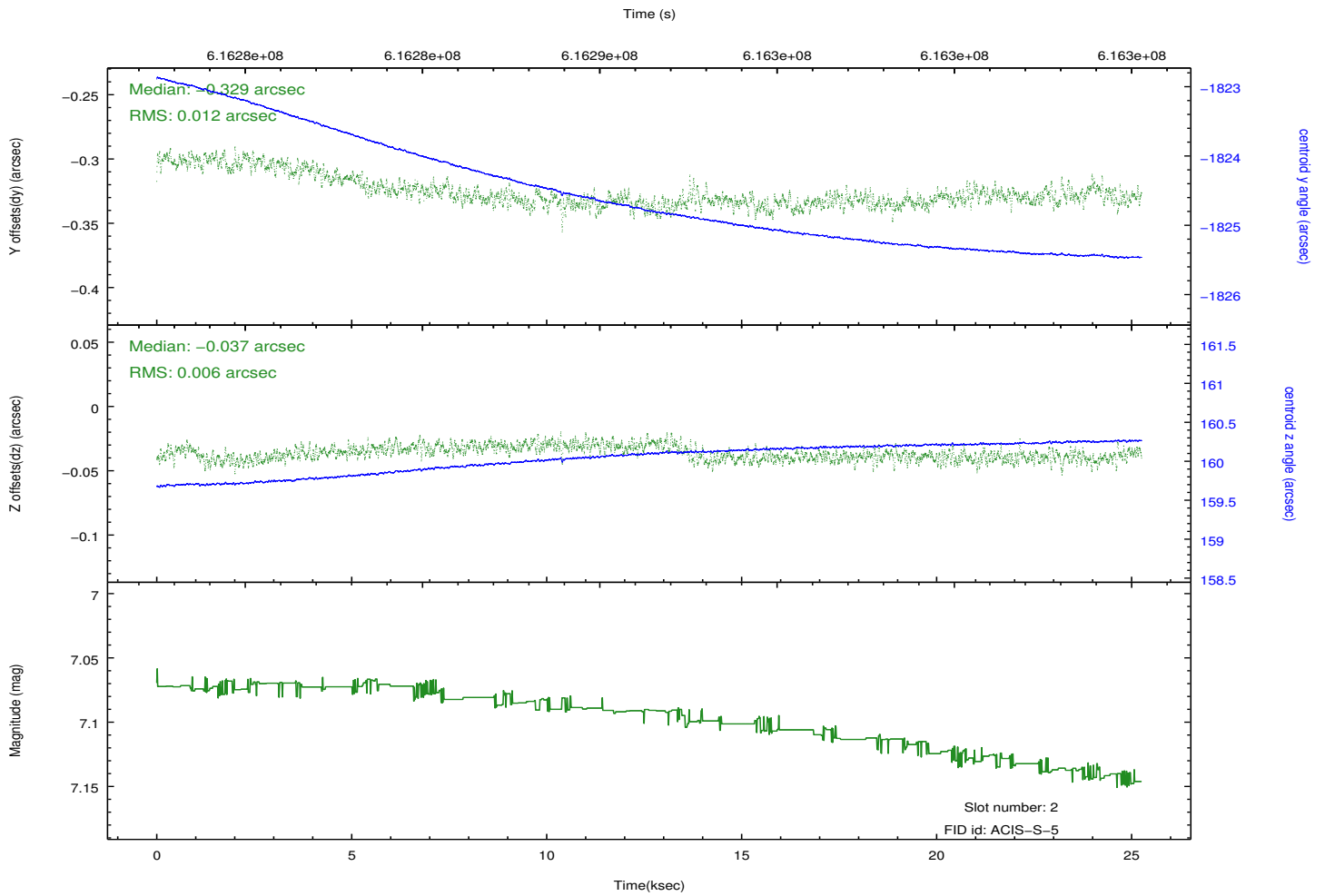
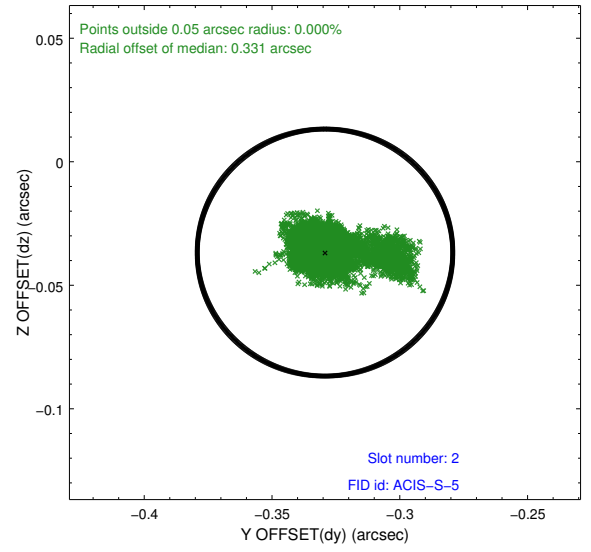
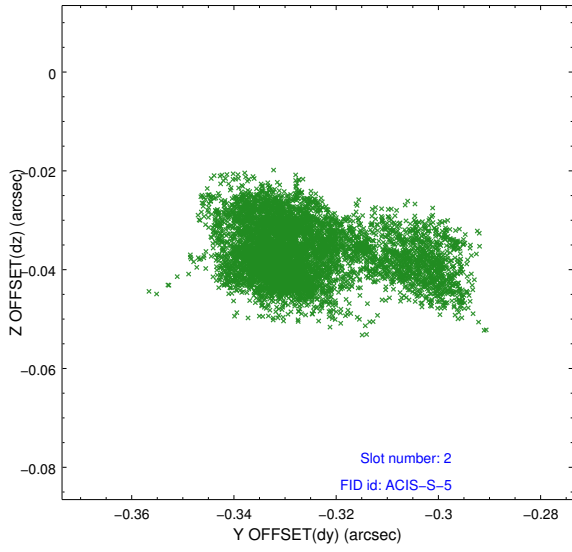
### 2.5.1 Slot 0



## 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)	2017.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.952896415353

## A.2 Comments