

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 20121 - L2 Version 1  
Chandra X-Ray Center

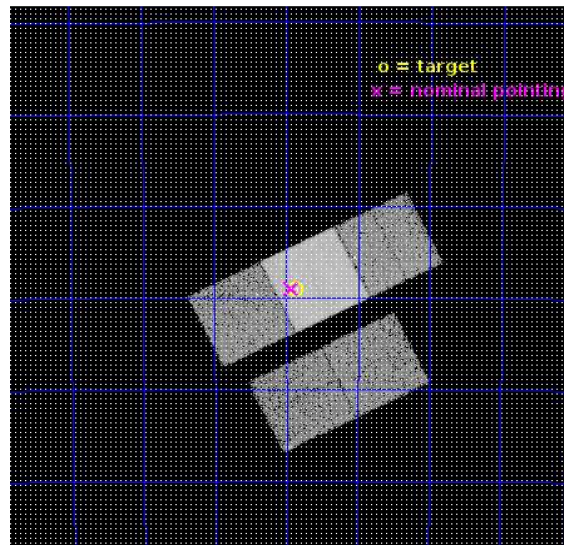
L2 Processing Date : Jul 26 2017

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# 1 Front

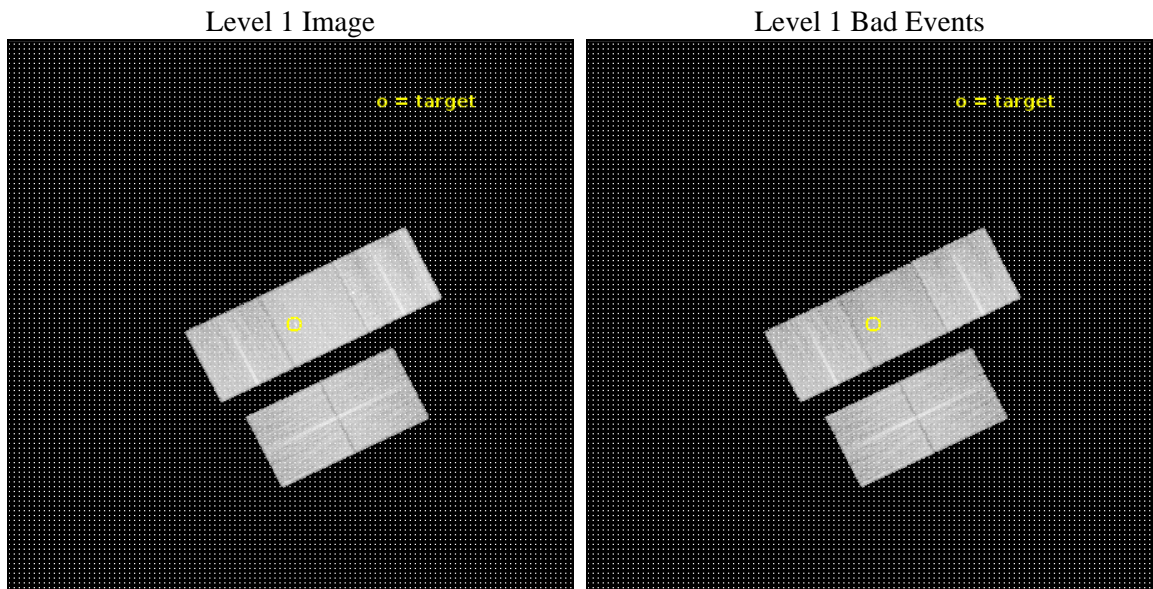
seq_num	300396	Sequence number
obs_id	20121	Observation id
title	The Faint CVs and MSPs of the Globular Cluster NGC 6752	Proposal t
observer	Haldan Cohn	Principal investigator
object	NGC 6752	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.717083	Observer's specified target RA [deg]
dec_targ	-59.984556	Observer's specified target Dec [deg]
ra_nom	287.73241022274	Nominal RA [deg]
dec_nom	-59.983863285397	Nominal Dec [deg]
roll_nom	333.66992409056	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18497.016717553	Sum of GTIs [s]
livetime	18255.339576833	Livetime [s]
ontime2	18493.711537361	Sum of GTIs [s]
ontime3	18496.934637547	Sum of GTIs [s]
ontime6	18493.834697366	Sum of GTIs [s]
ontime7	18497.016717553	Sum of GTIs [s]
ontime8	18493.752607346	Sum of GTIs [s]
l2events	126542	Number of level 2 events



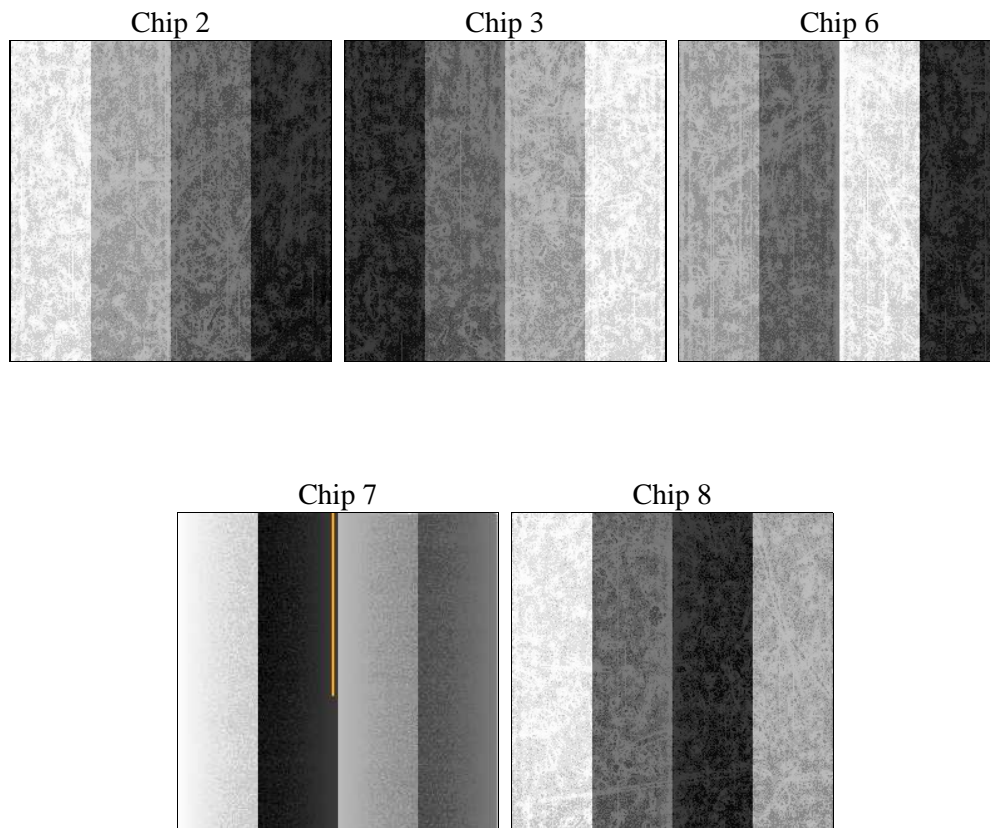
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18438.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18497.016717553	Sum of GTIs [s]
caldbver	4.7.5	&#160	ontime2	18493.711537361	Sum of GTIs [s]
date	2017-07-26T05:04:25	Date and time of file creation	ontime3	18496.934637547	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	18493.834697366	Sum of GTIs [s]
			ontime7	18497.016717553	Sum of GTIs [s]
			ontime8	18493.752607346	Sum of GTIs [s]
			l1events	720266	Number of level 1 events

### 2.1.4 Events

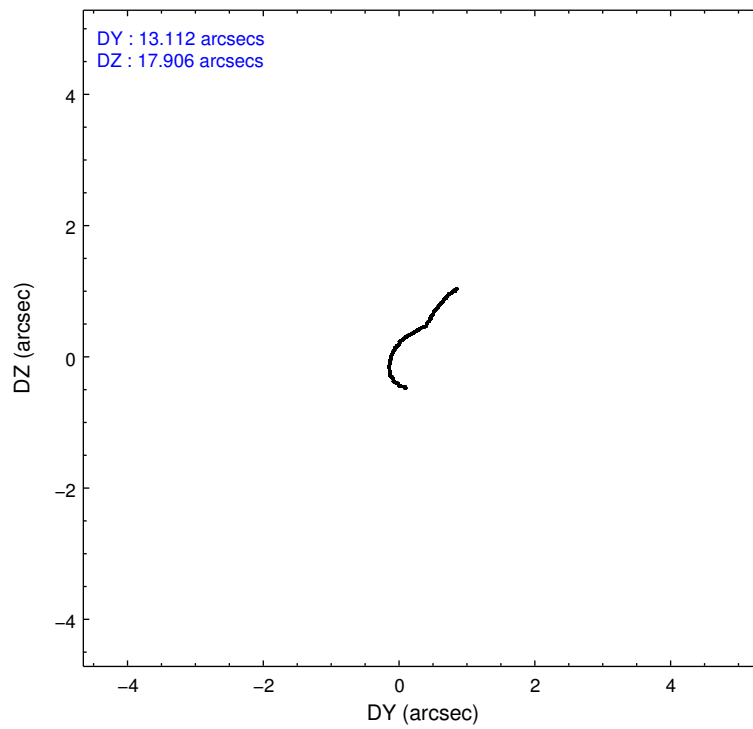
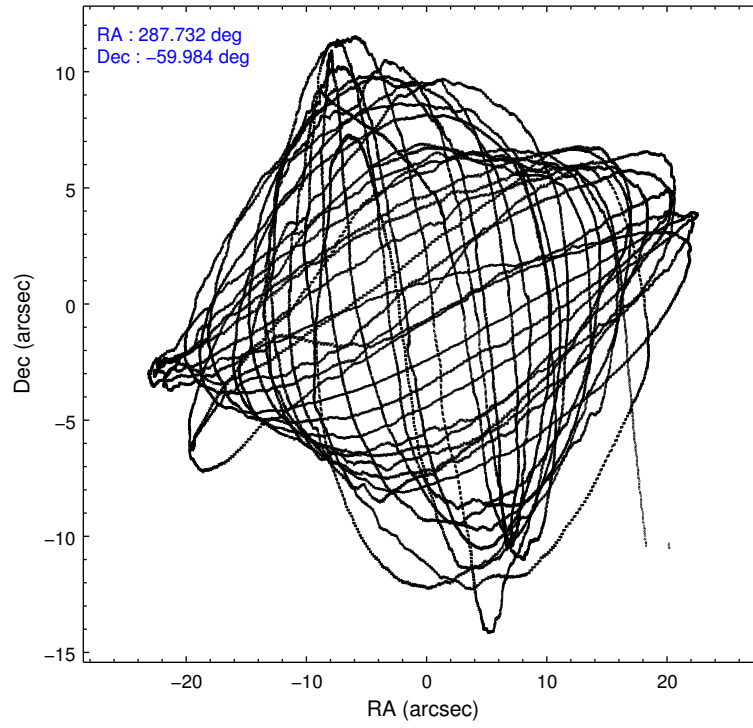
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	124341	119416	132540	166392	177577
rejected events	109938	105627	116927	92089	127714
rejected %	88%	88%	88%	55%	71%

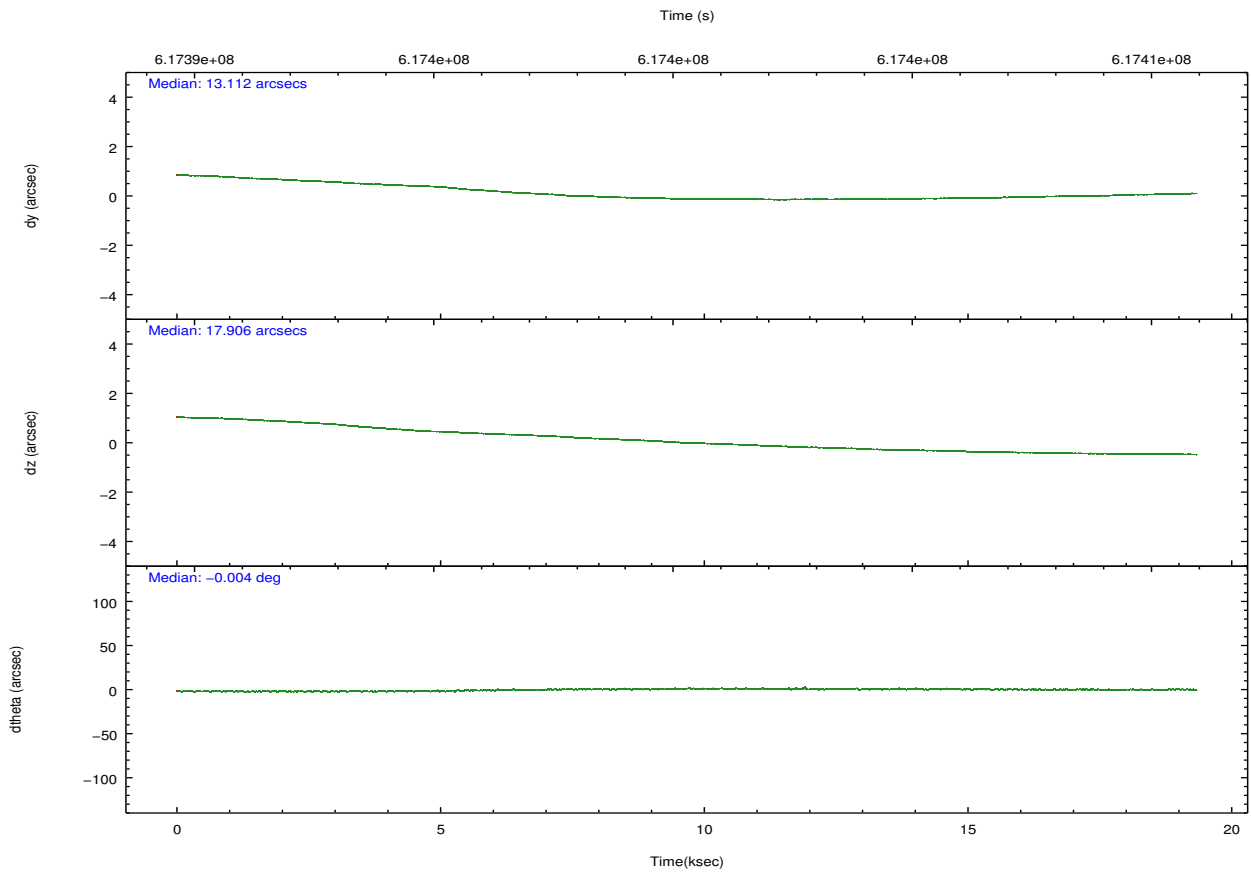
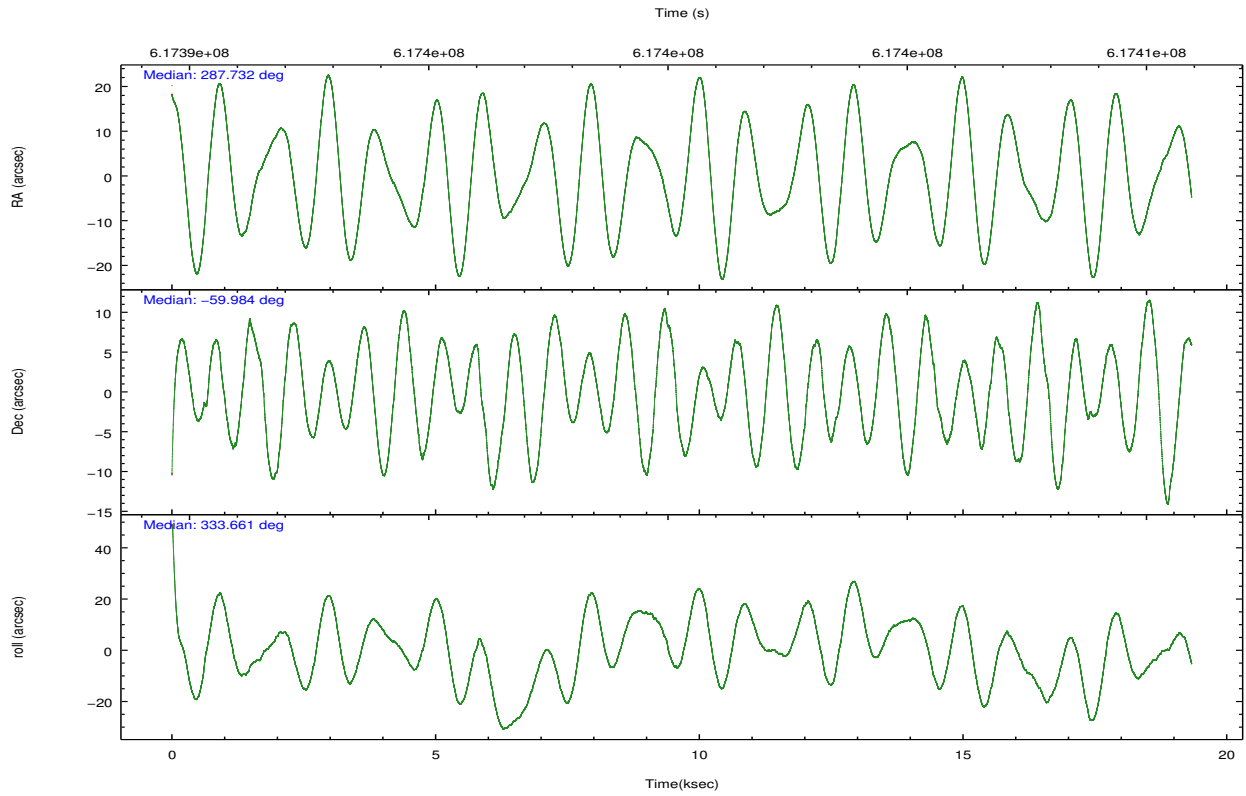
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5085	5060	5517	6703	14552
	4%	4%	4%	4%	8%
grade 1 events	67	75	63	242	140
	0%	0%	0%	0%	0%
grade 2 events	3574	2991	3551	15646	11863
	2%	2%	2%	9%	6%
grade 3 events	1451	1463	1548	6083	5197
	1%	1%	1%	3%	2%
grade 4 events	1523	1508	1537	6087	4855
	1%	1%	1%	3%	2%
grade 5 events	5065	6052	6266	16567	9116
	4%	5%	4%	9%	5%
grade 6 events	2772	2771	3463	39807	13401
	2%	2%	2%	23%	7%
grade 7 events	104804	99496	110595	75257	118453
	84%	83%	83%	45%	66%

## 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	287.677683	287.7324102227402	CCD I2 on	O2	Y
[deg] Pointing Dec	-59.985976	-59.98386328539672	CCD I3 on	O1	Y
[deg] Pointing Roll	333.465885	333.6699240905649	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	O3	Y
[s] Observation start time (MET)	617391509.184000	617389523.8958499	CCD S5 on	N	N
Observation start date	2017-07-25T17:37:20	2017-07-25T17:05:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	617409947.184000	617410647.60952	On-chip summing requested	N	N
Observation end date	2017-07-25T22:44:38	2017-07-25T22:57:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





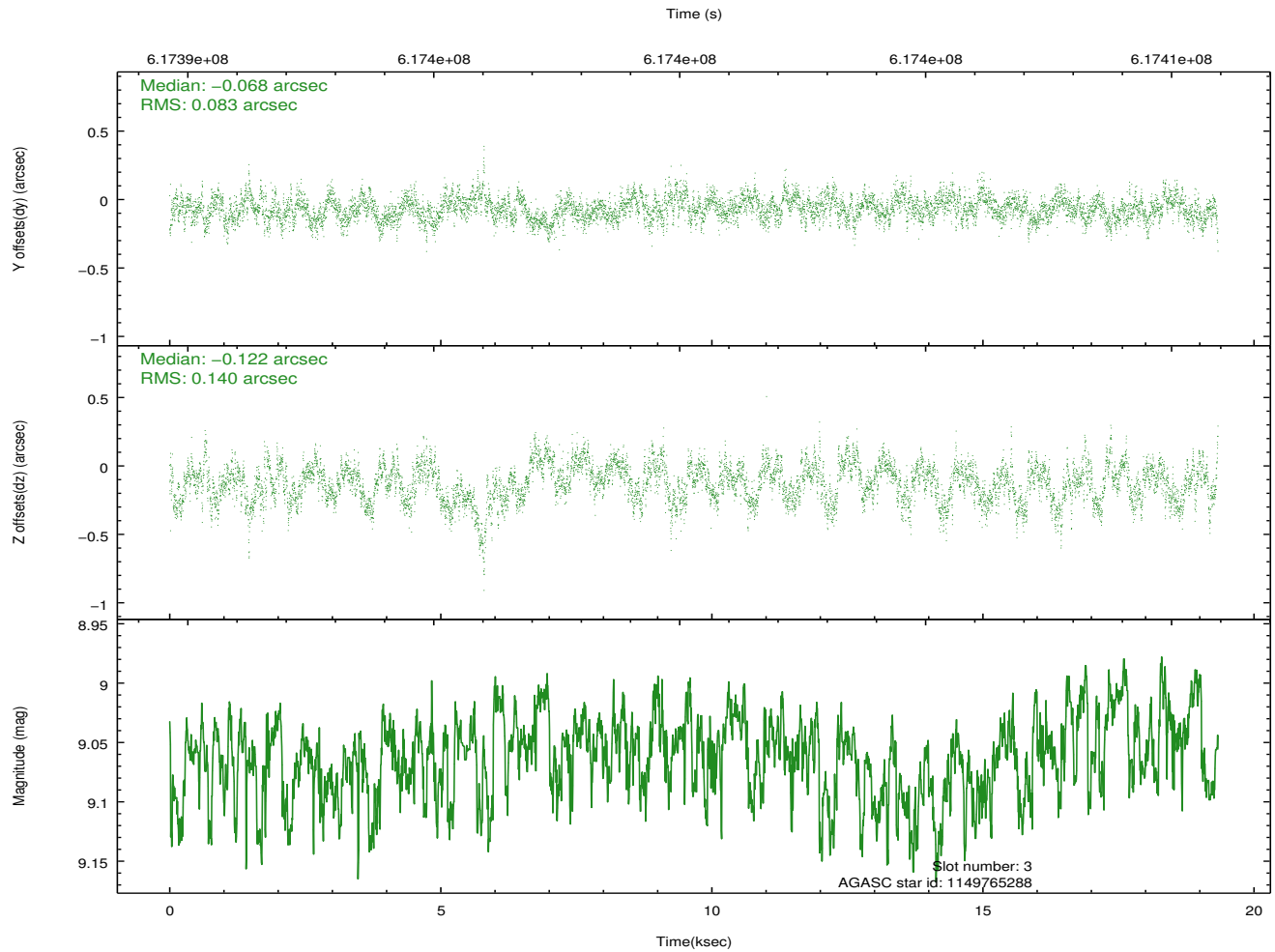
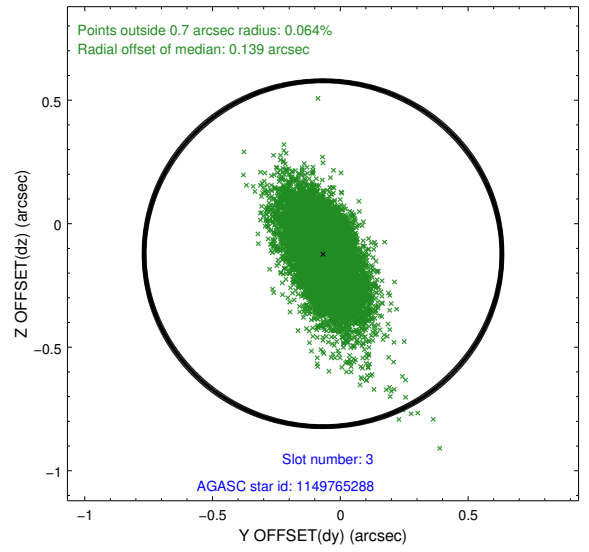
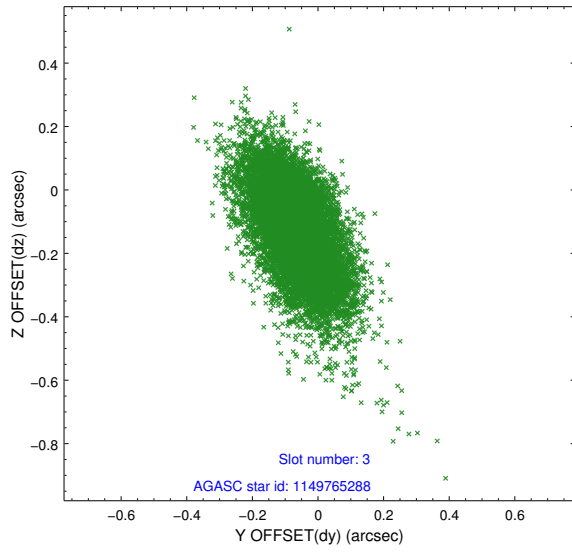
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	4716	-0.130	-0.097	0.015	0.043	0.000000	0.000000	-766.30	-1739.57
1	FID		ACIS-S-4	7.07	4716	0.423	0.089	0.016	0.060	0.000000	0.000000	2147.45	168.90
2	FID		ACIS-S-5	7.07	4717	-0.326	0.012	0.012	0.020	0.000000	0.000000	-1819.09	162.70
3	GUIDE	used	1149765288	9.06	9427	-0.068	-0.122	0.166	0.287	288.533709	-59.930458	1296.61	859.97
4	GUIDE	used	1149777744	7.72	9431	-0.045	-0.135	0.112	0.201	287.546652	-59.548386	-917.42	1302.46
5	GUIDE	used	1149778360	8.08	9427	-0.077	0.005	0.122	0.220	287.205244	-59.332299	-1825.82	1714.87
6	GUIDE	used	1188830928	7.80	9431	0.070	0.239	0.130	0.227	286.492427	-60.109249	-1695.31	-1363.58
7	GUIDE	used	1188964872	8.36	9428	0.121	0.026	0.114	0.206	287.741028	-60.272202	562.71	-872.71

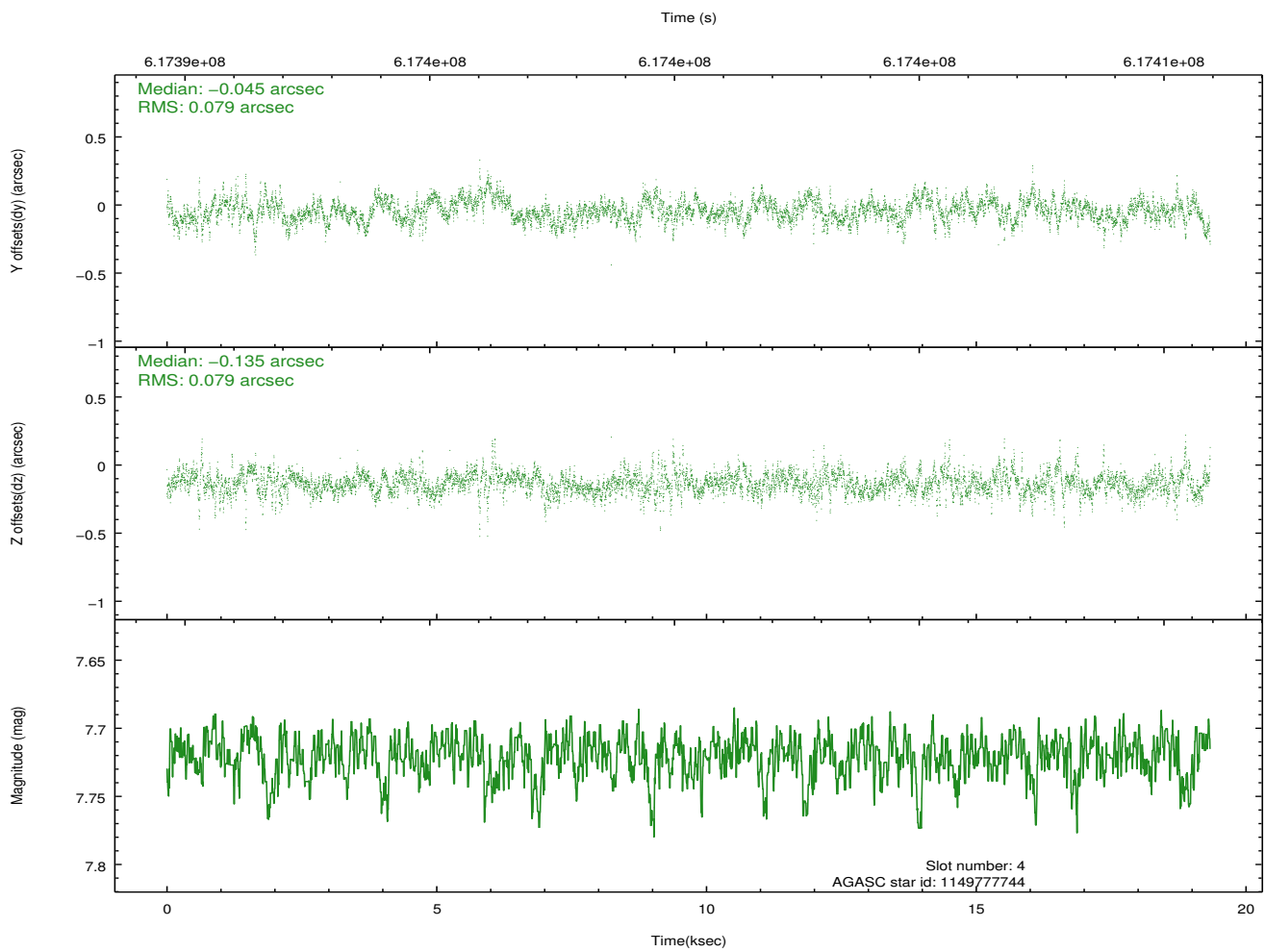
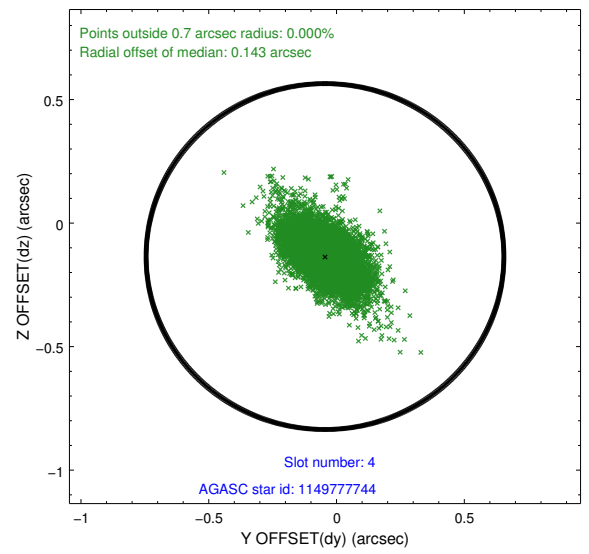
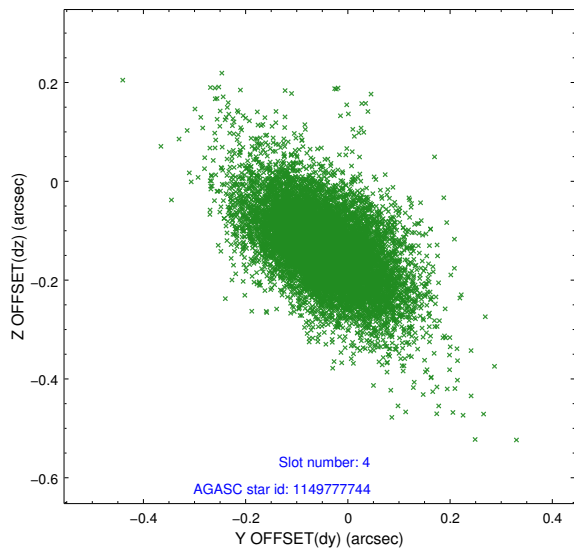
∞

## 2.4 Star Slots

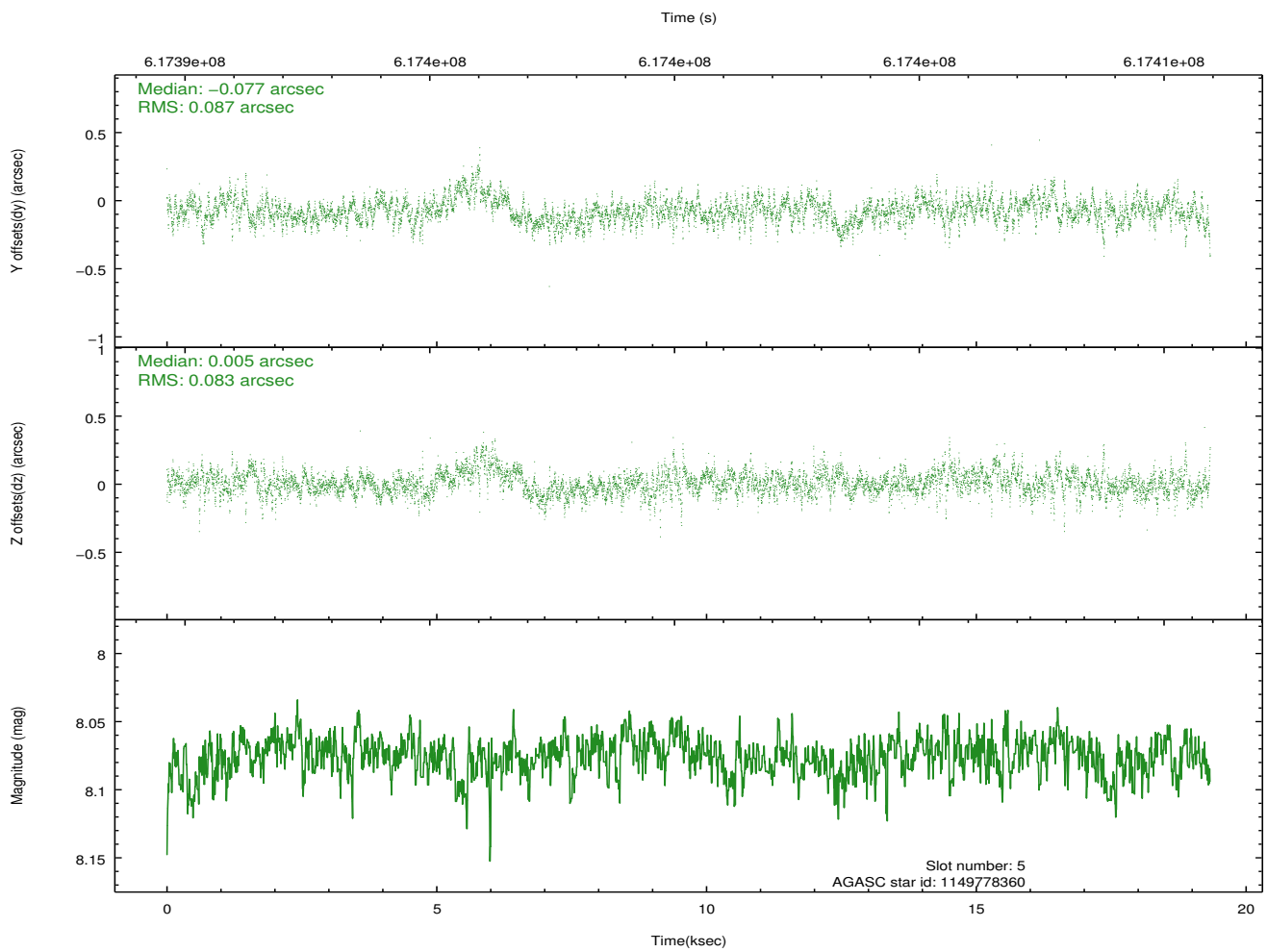
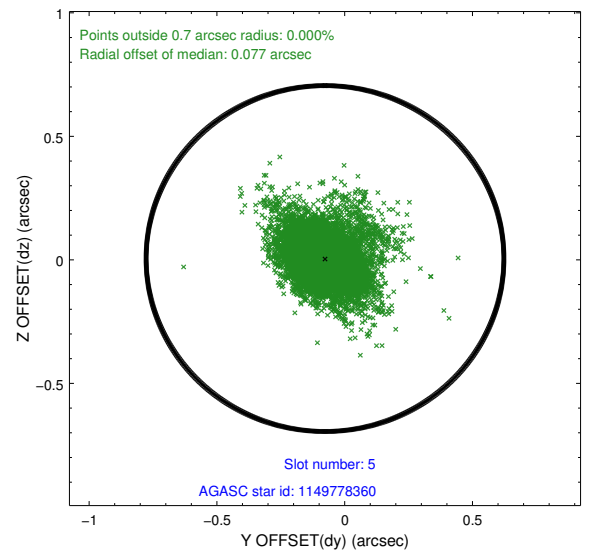
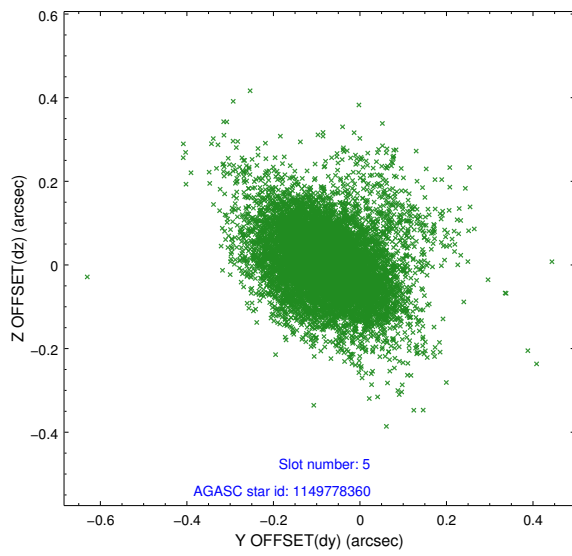
### 2.4.1 Slot 3



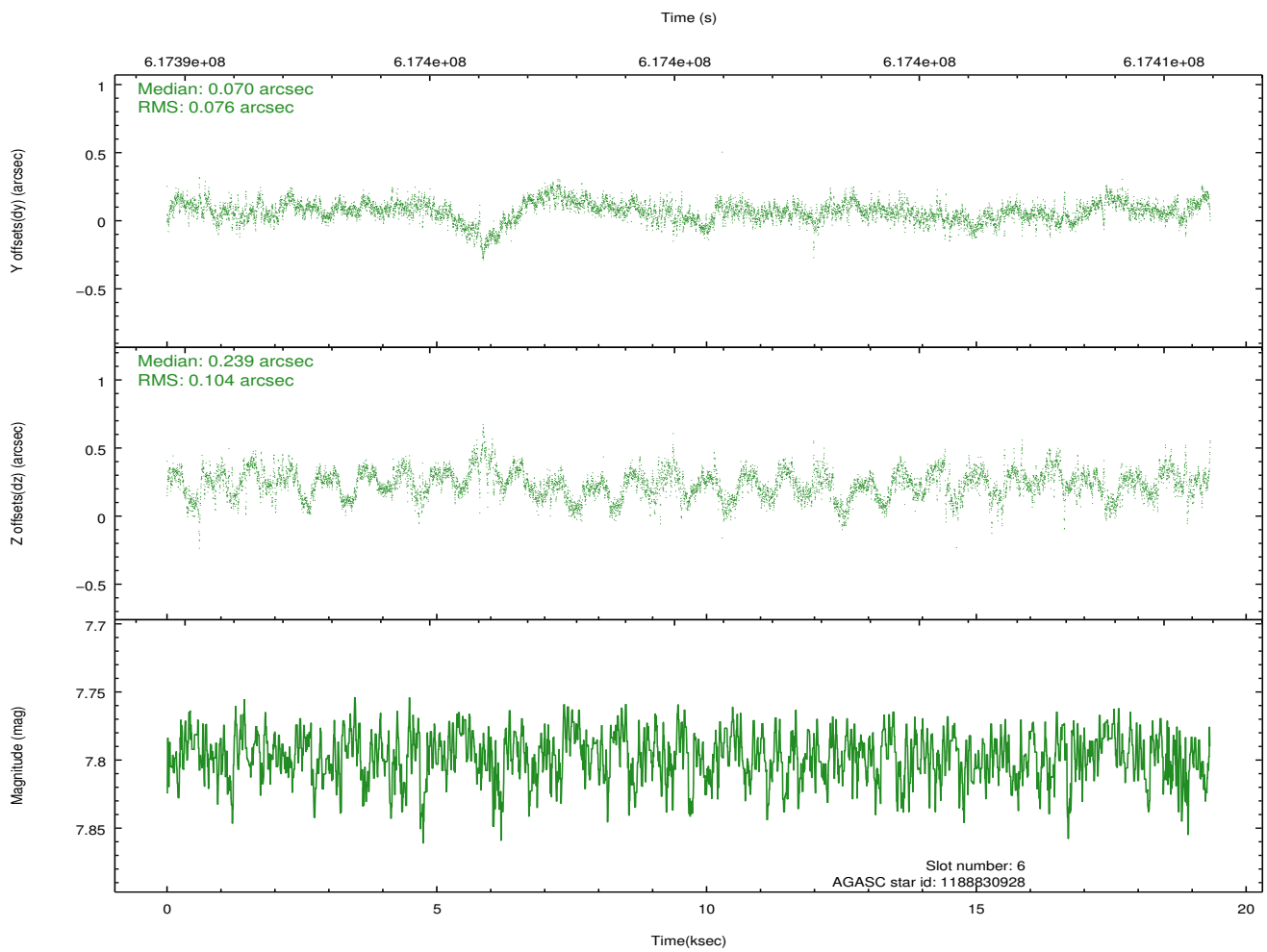
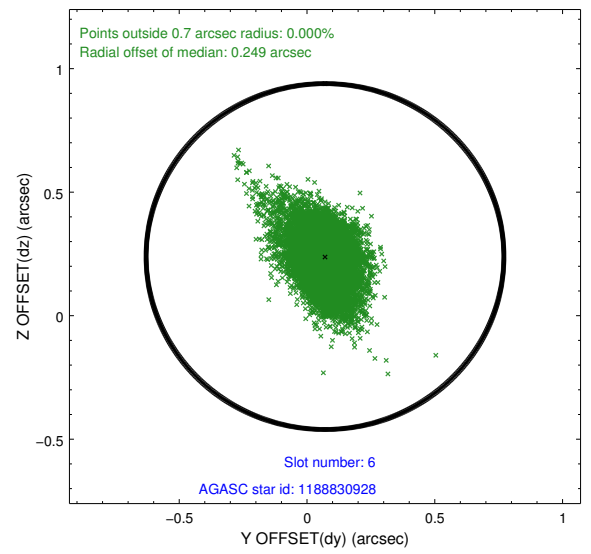
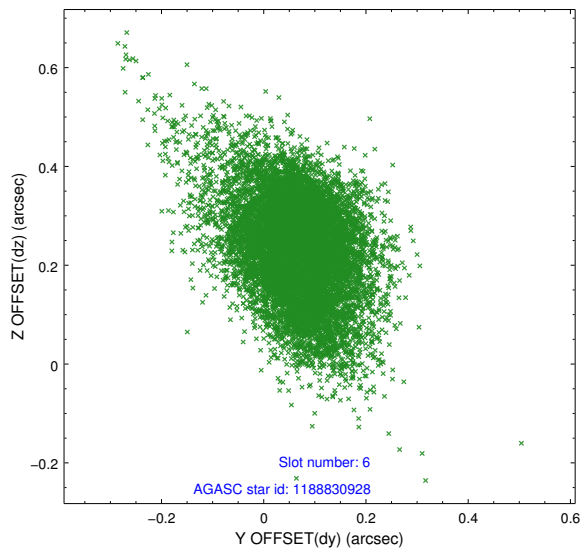
## 2.4.2 Slot 4



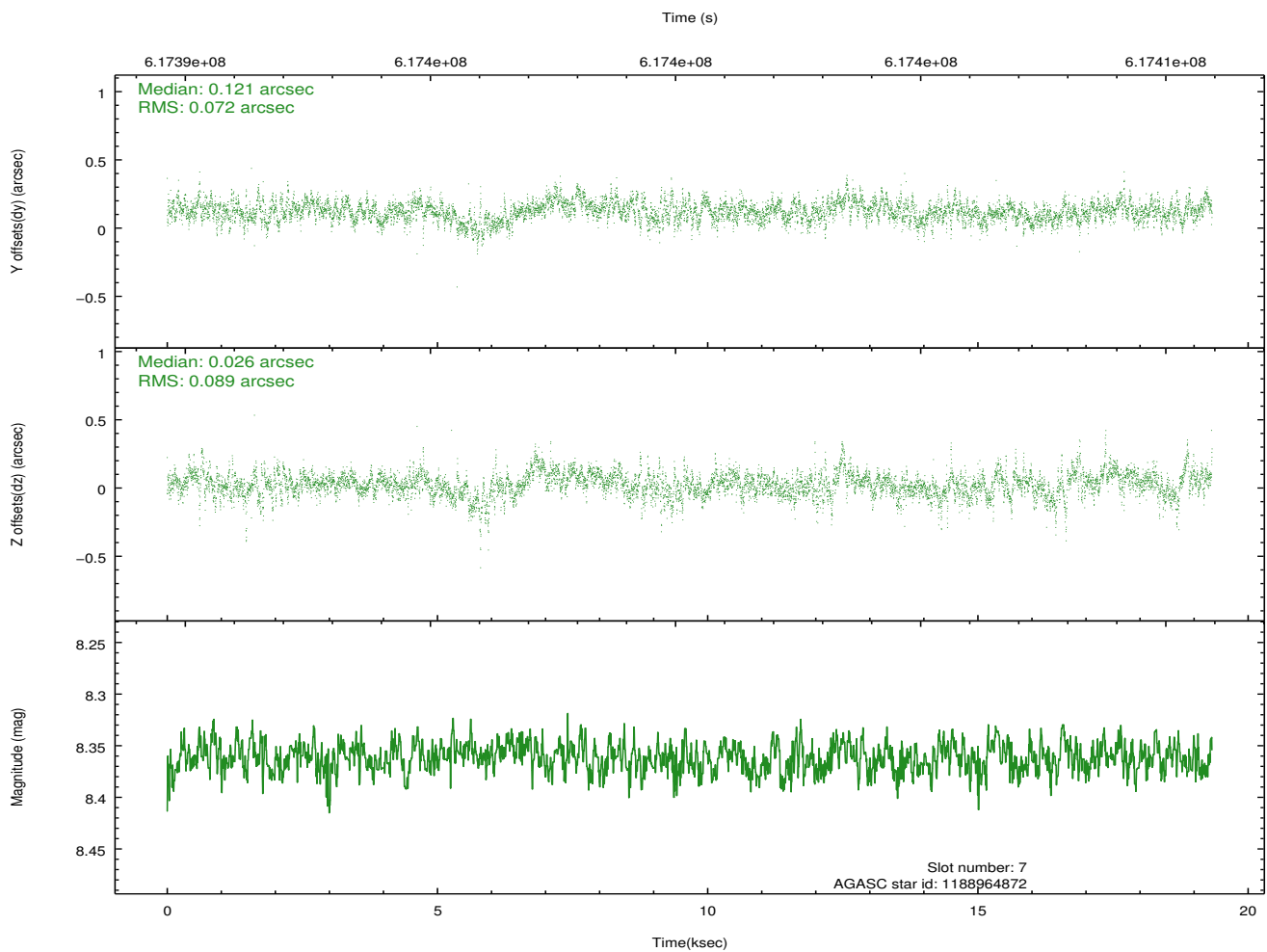
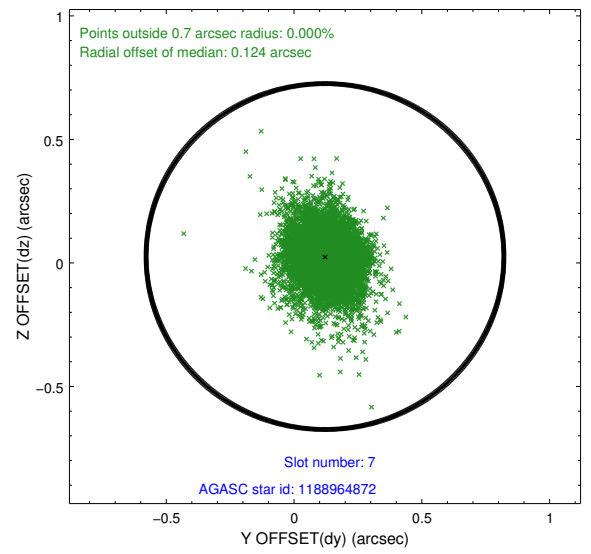
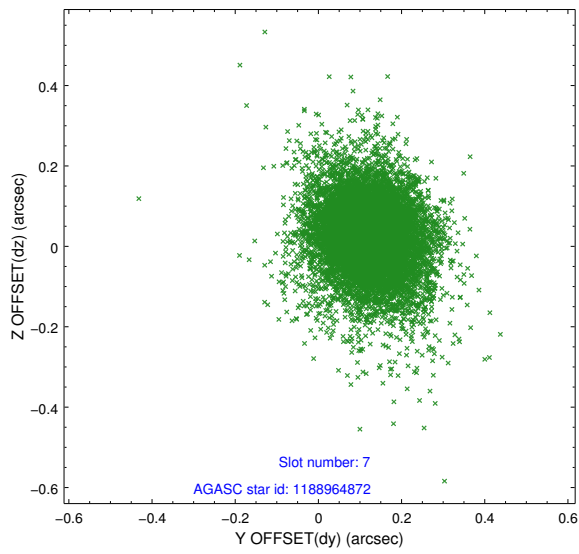
### 2.4.3 Slot 5



## 2.4.4 Slot 6

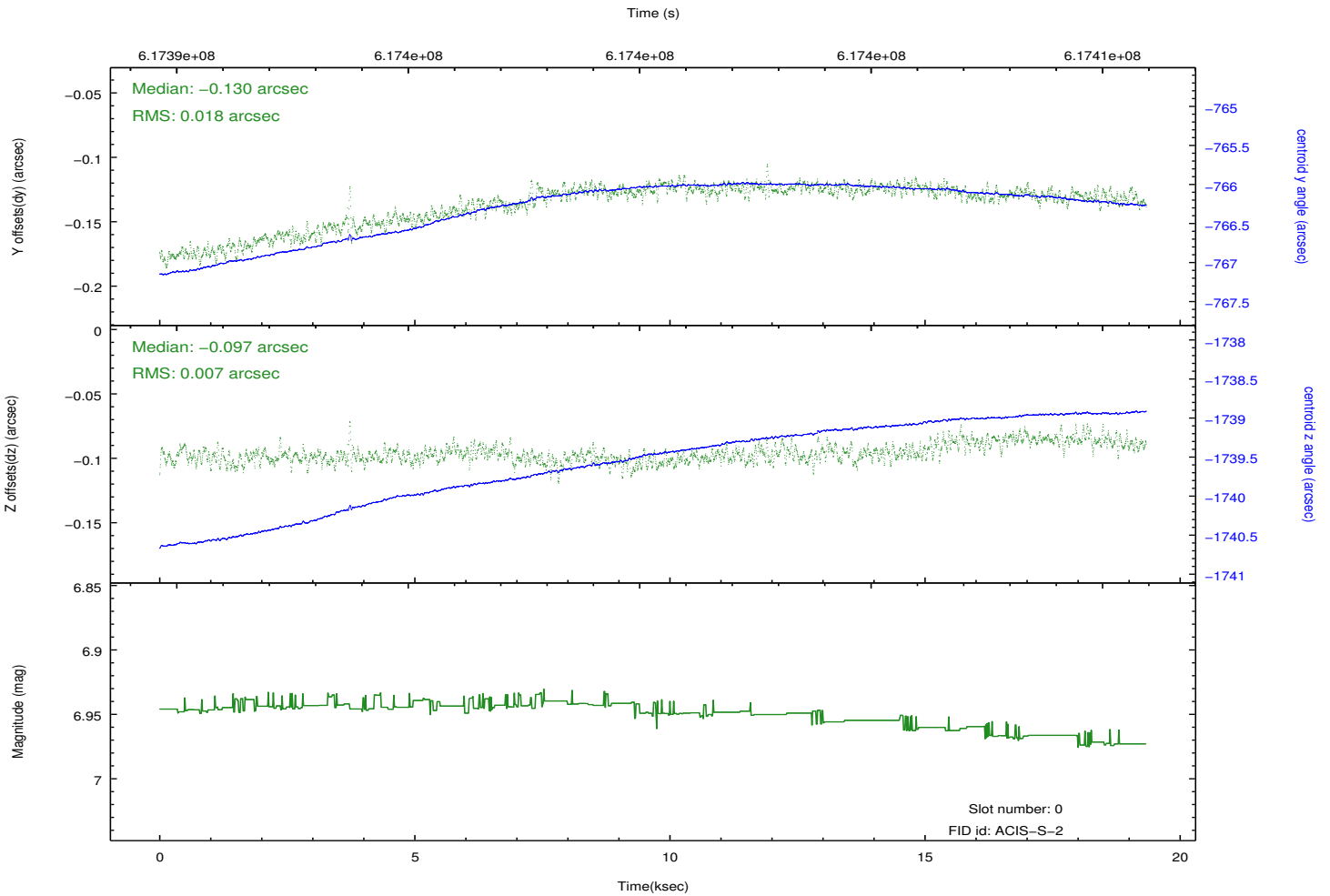
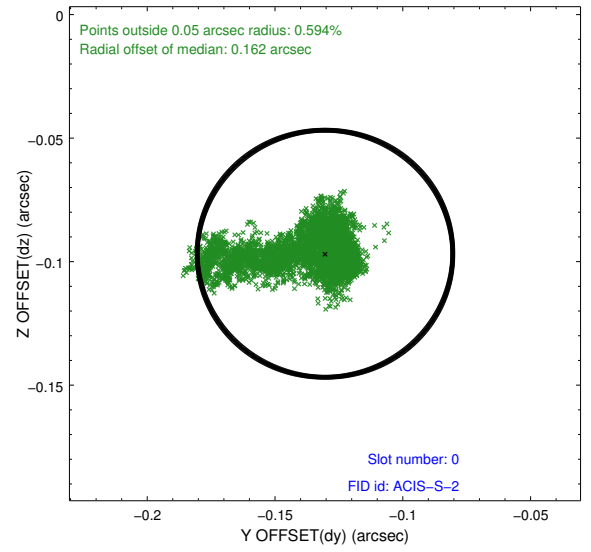
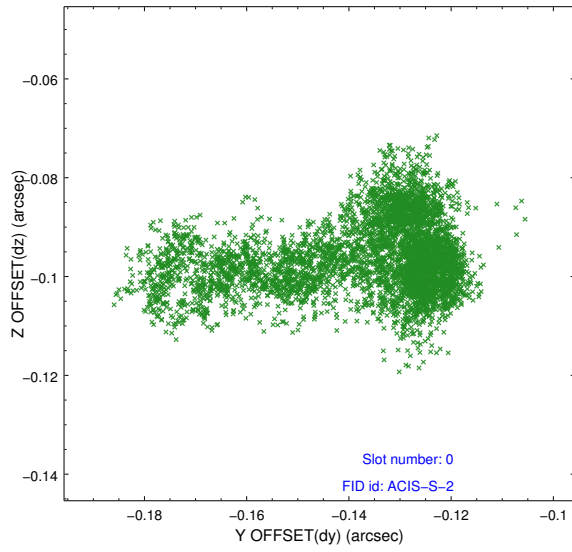


## 2.4.5 Slot 7

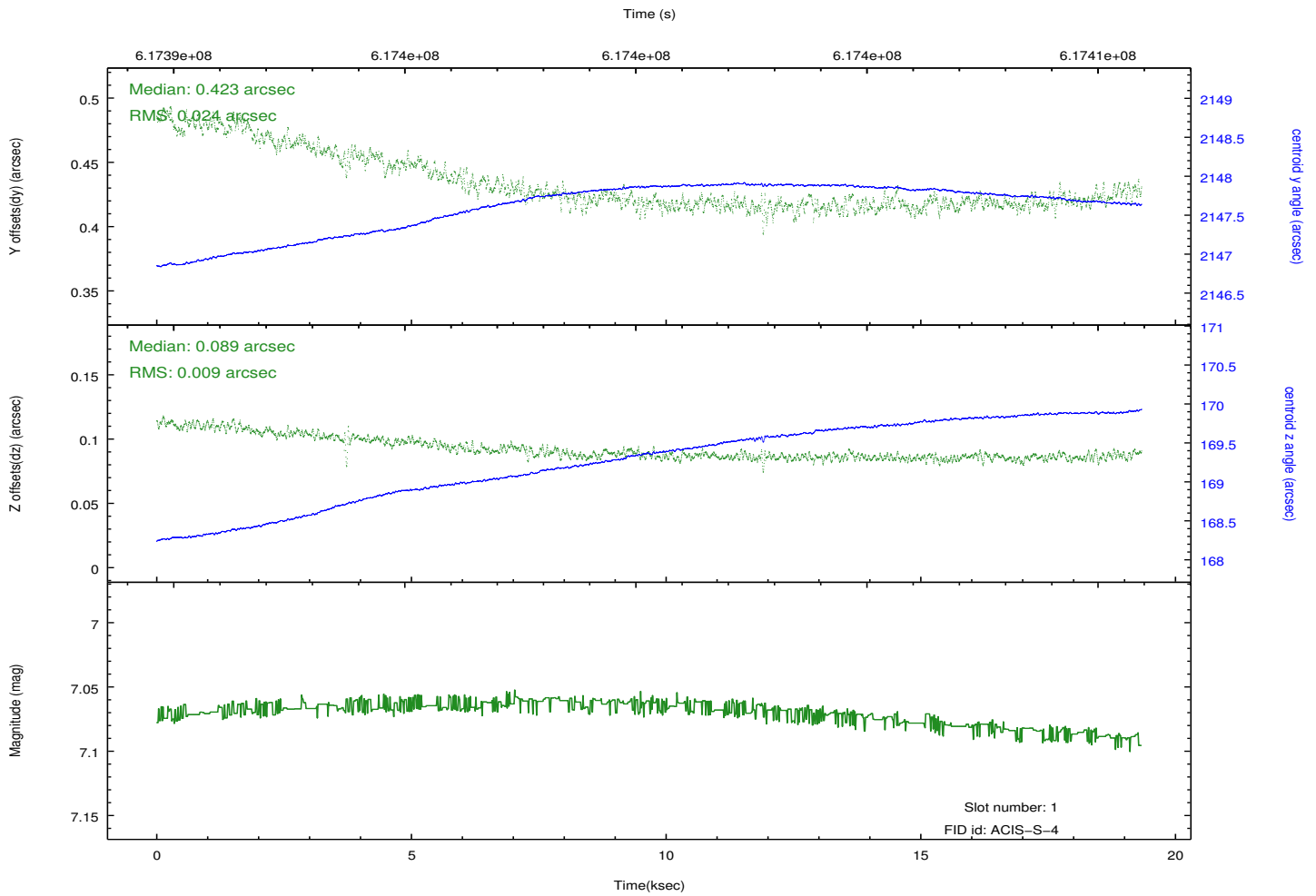
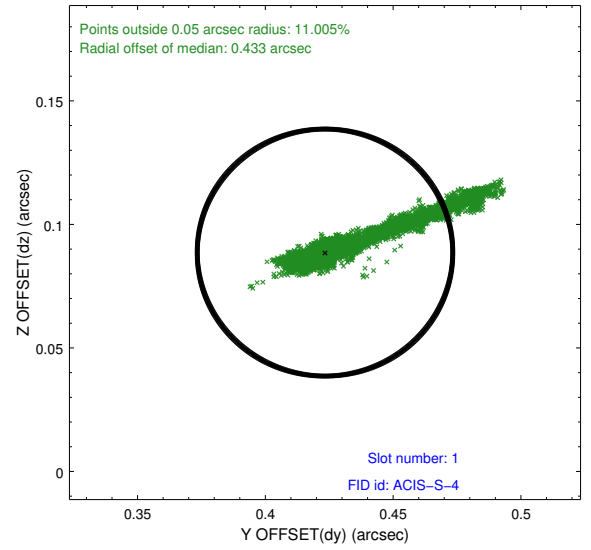
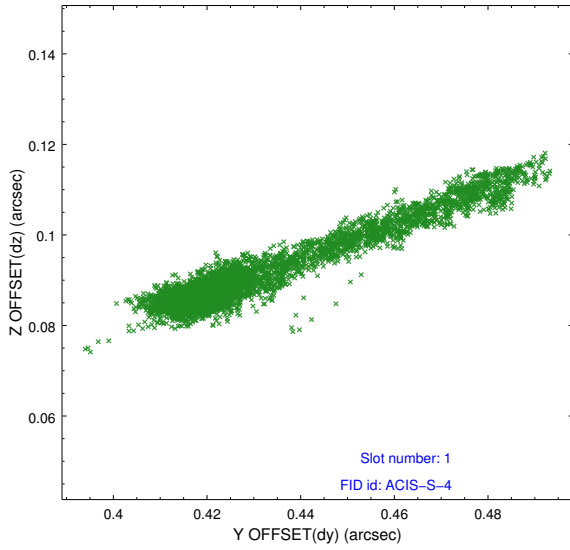


## 2.5 FID Slots

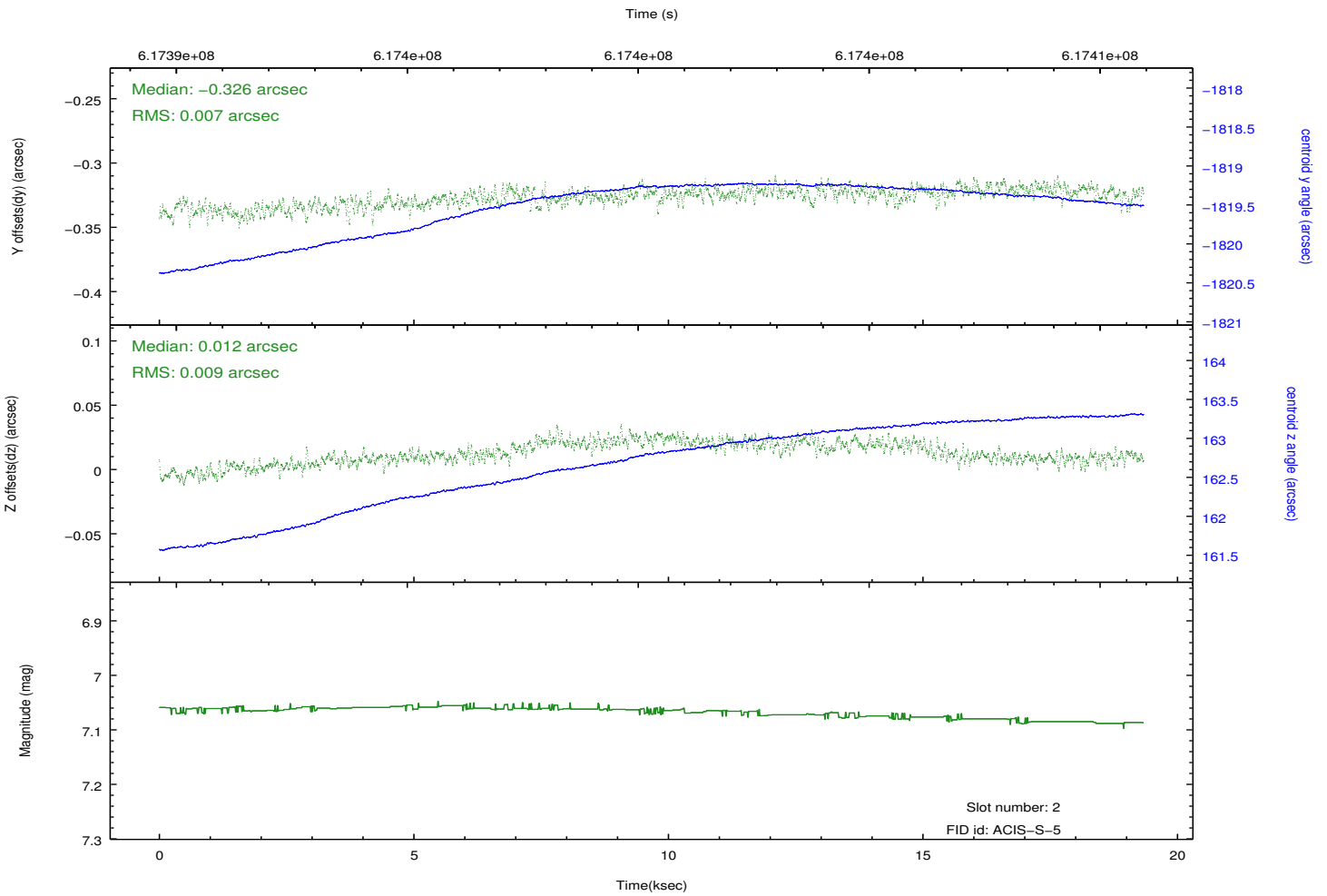
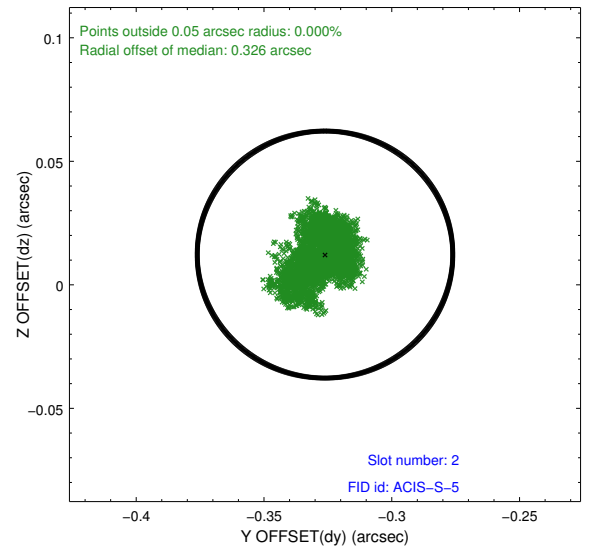
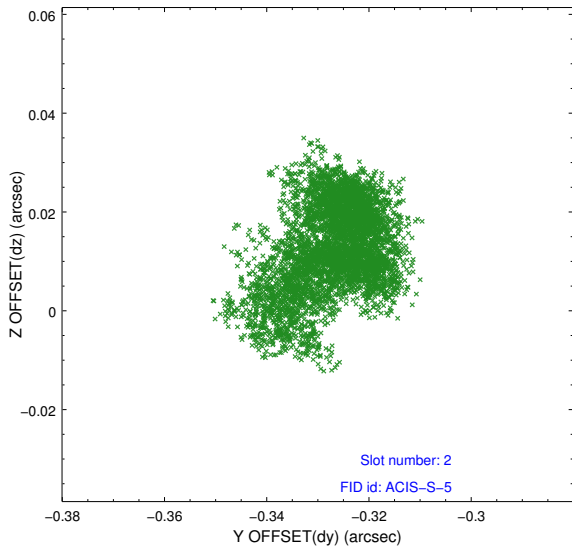
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.07.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.497016717553

## A.2 Comments