

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14235 - L2 Version 2  
Chandra X-Ray Center

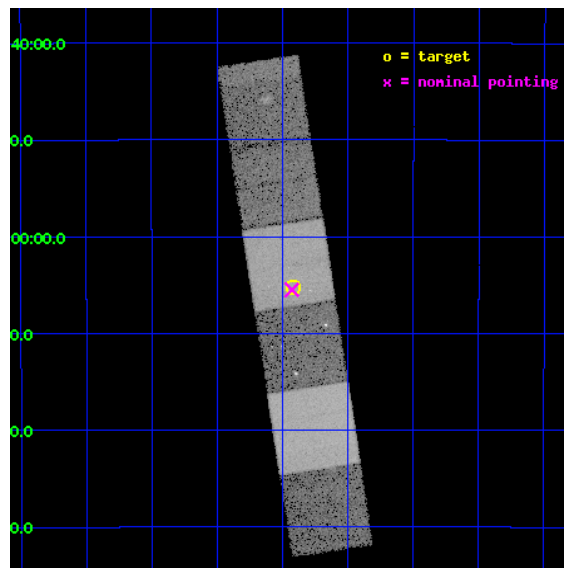
L2 Processing Date : Feb 19 2012

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# 1 Front

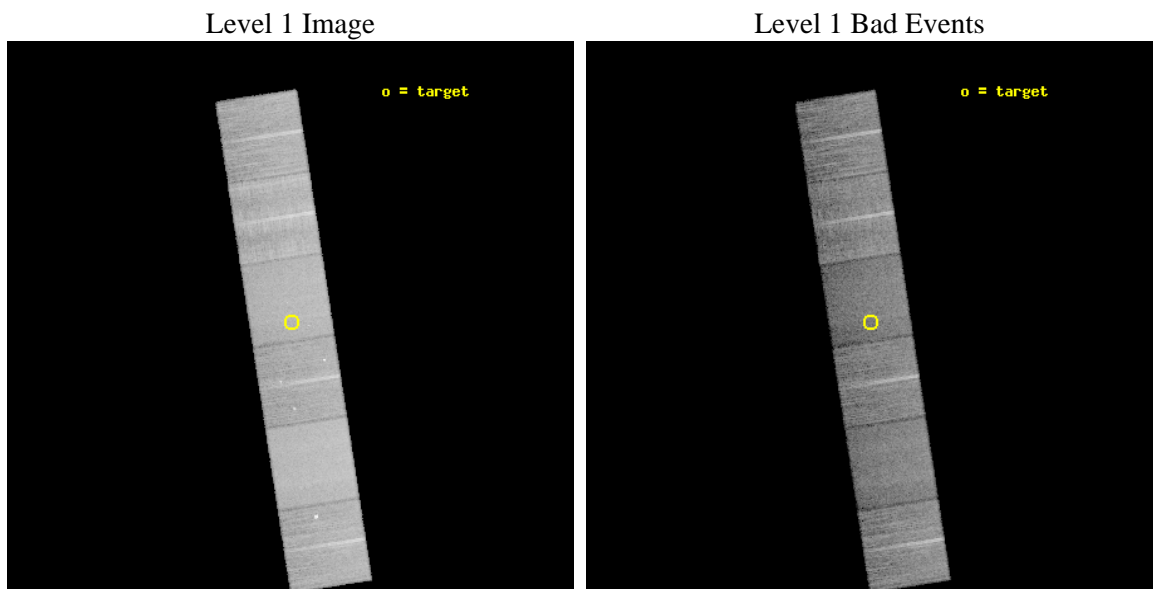
seq_num	200667	Sequence number
obs_id	14235	Observation id
title	X-ray emission from wide brown dwarf binaries	Proposal title
observer	Dr Beate Stelzer	Principal investigator
object	Oph1622-2405	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.605	Observer's specified target RA [deg]
dec_targ	-24.087194	Observer's specified target Dec [deg]
ra_nom	245.60707576514	Nominal RA [deg]
dec_nom	-24.091664668962	Nominal Dec [deg]
roll_nom	261.15747858429	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20047.999925375	Sum of GTIs [s]
livetime	19794.140078864	Livetime [s]
ontime4	20041.517944753	Sum of GTIs [s]
ontime5	20047.999925375	Sum of GTIs [s]
ontime6	20047.999925375	Sum of GTIs [s]
ontime7	20047.999925375	Sum of GTIs [s]
ontime8	20047.999925375	Sum of GTIs [s]
ontime9	20047.999925375	Sum of GTIs [s]
l2events	208834	Number of level 2 events



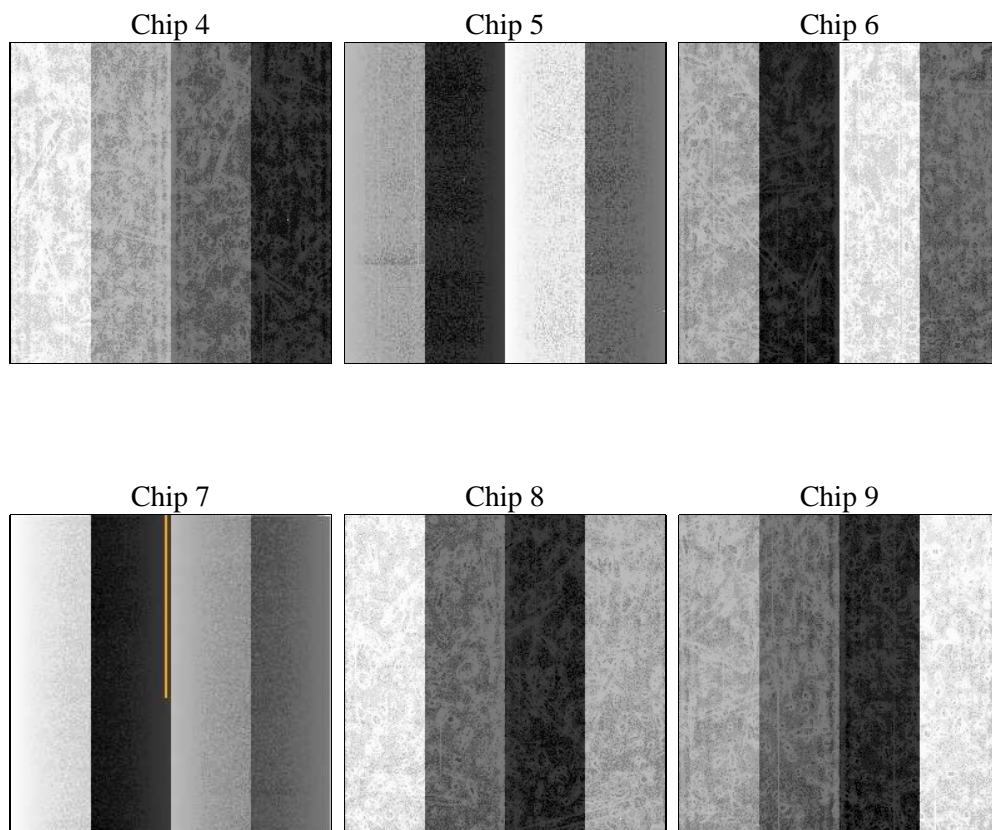
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	20047.999925375	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	20041.517944753	Sum of GTIs [s]
date	2012-02-20T00:23:10	Date and time of file creation	ontime5	20047.999925375	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20047.999925375	Sum of GTIs [s]
			ontime7	20047.999925375	Sum of GTIs [s]
			ontime8	20047.999925375	Sum of GTIs [s]
			ontime9	20047.999925375	Sum of GTIs [s]
			l1events	898554	Number of level 1 events

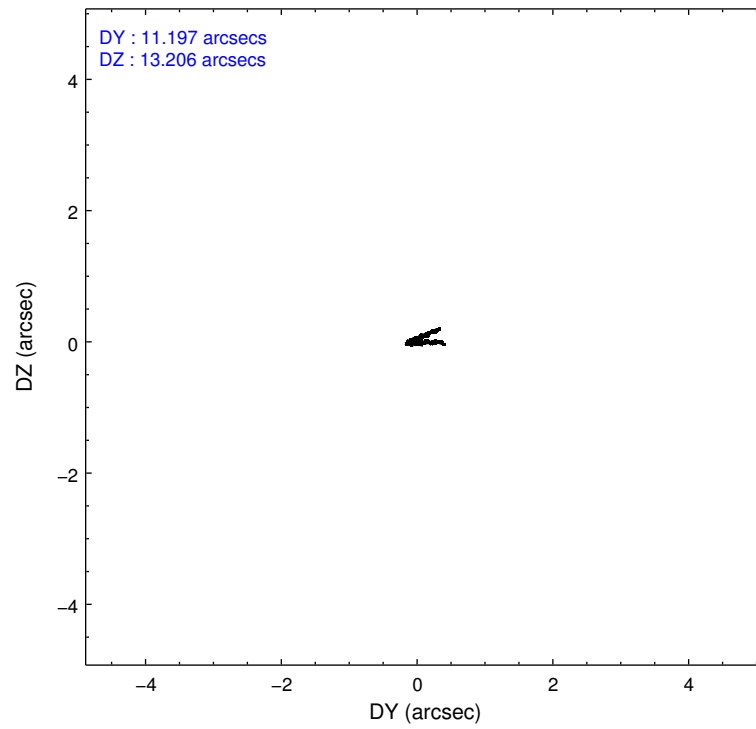
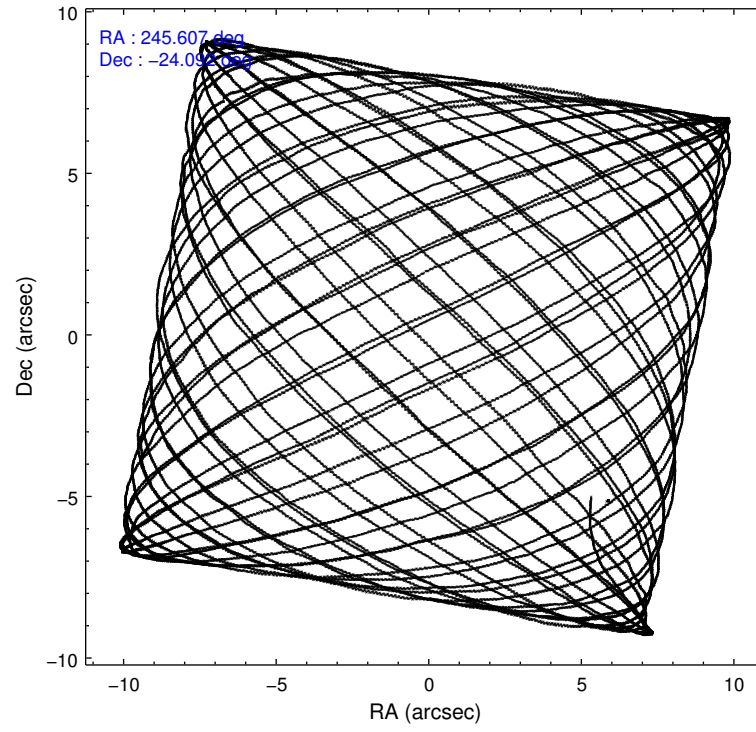
### 2.1.4 Events

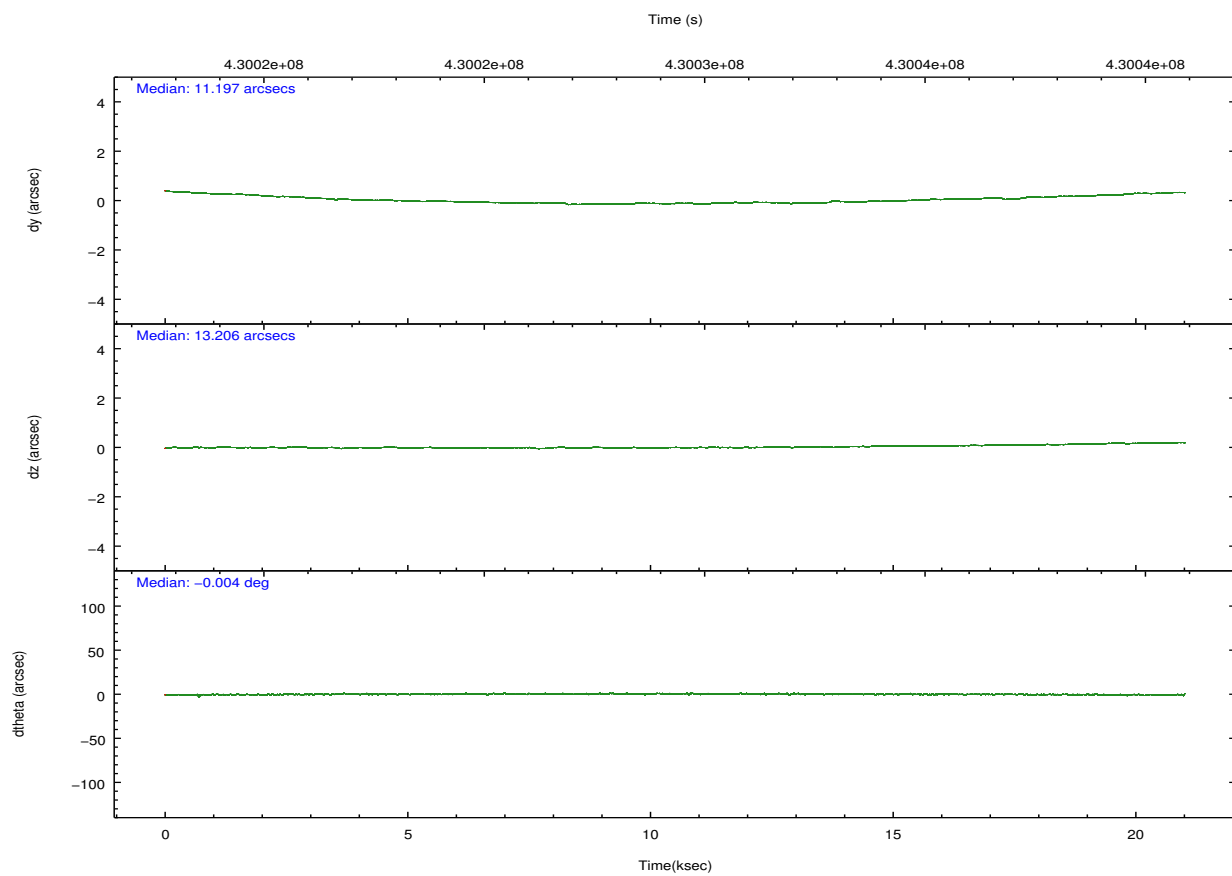
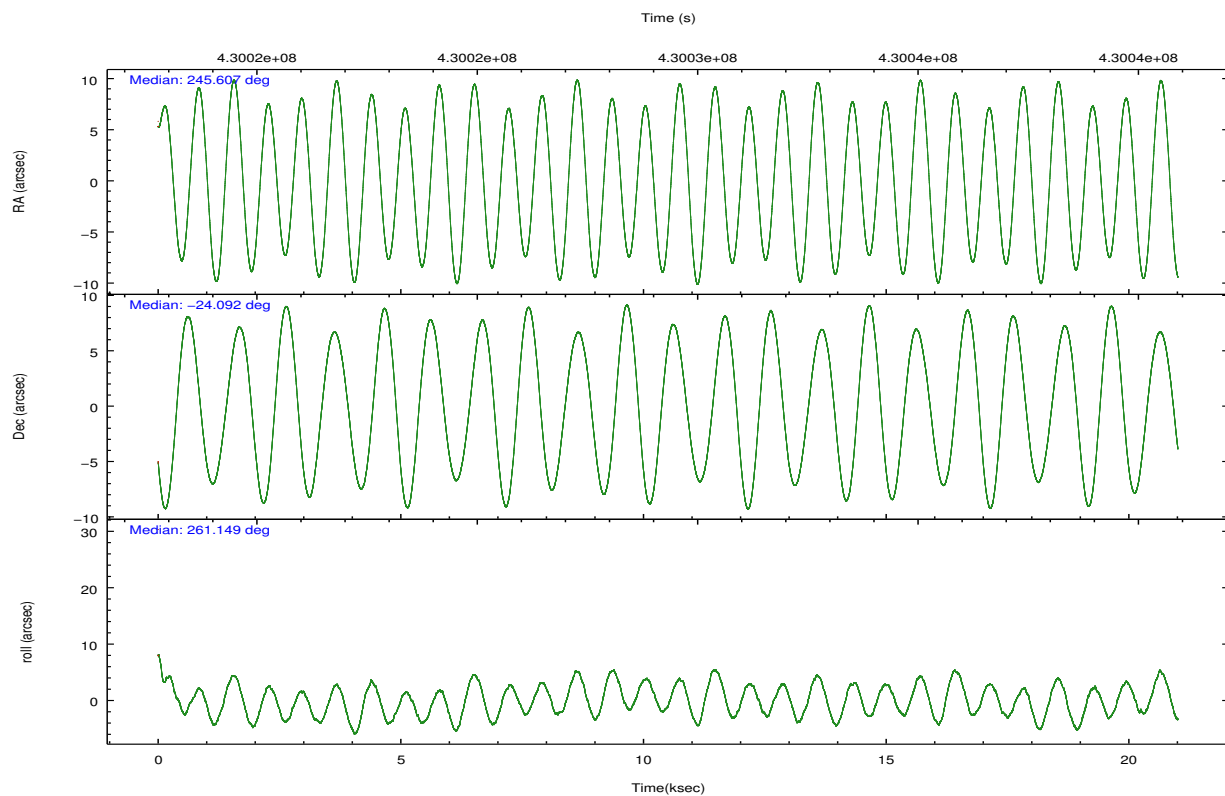
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	143850	187432	126014	155874	162260	123124	grade 0 events	7510	5686	6485	6003	12011	5754
rejected events	127014	97417	109859	87083	120158	107584		5%	3%	5%	3%	7%	4%
rejected %	88%	51%	87%	55%	74%	87%	grade 1 events	155	296	73	184	120	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	3625	27833	3356	14125	9861	3361
								2%	14%	2%	9%	6%	2%
							grade 3 events	1622	3559	1563	5957	4458	1514
								1%	1%	1%	3%	2%	1%
							grade 4 events	1532	3336	1505	5990	4259	1569
								1%	1%	1%	3%	2%	1%
							grade 5 events	5943	14619	5818	16390	8657	6497
								4%	7%	4%	10%	5%	5%
							grade 6 events	2552	49628	3248	36757	11531	3347
								1%	26%	2%	23%	7%	2%
							grade 7 events	120911	82475	103966	70468	111363	101002
								84%	44%	82%	45%	68%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	245.595871	245.6070757651351	CCD I2 on	N	N
[deg] Pointing Dec	-24.066296	-24.09166466896211	CCD I3 on	N	N
[deg] Pointing Roll	260.996276	261.1574785842853	CCD S0 on	O4	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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)	430019826.184000	430018081.07837	CCD S5 on	O5	Y
Observation start date	2011-08-18T01:56:00	2011-08-18T01:28:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	430039826.184000	430040556.76705	On-chip summing requested	N	N
Observation end date	2011-08-18T07:29:20	2011-08-18T07:42:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



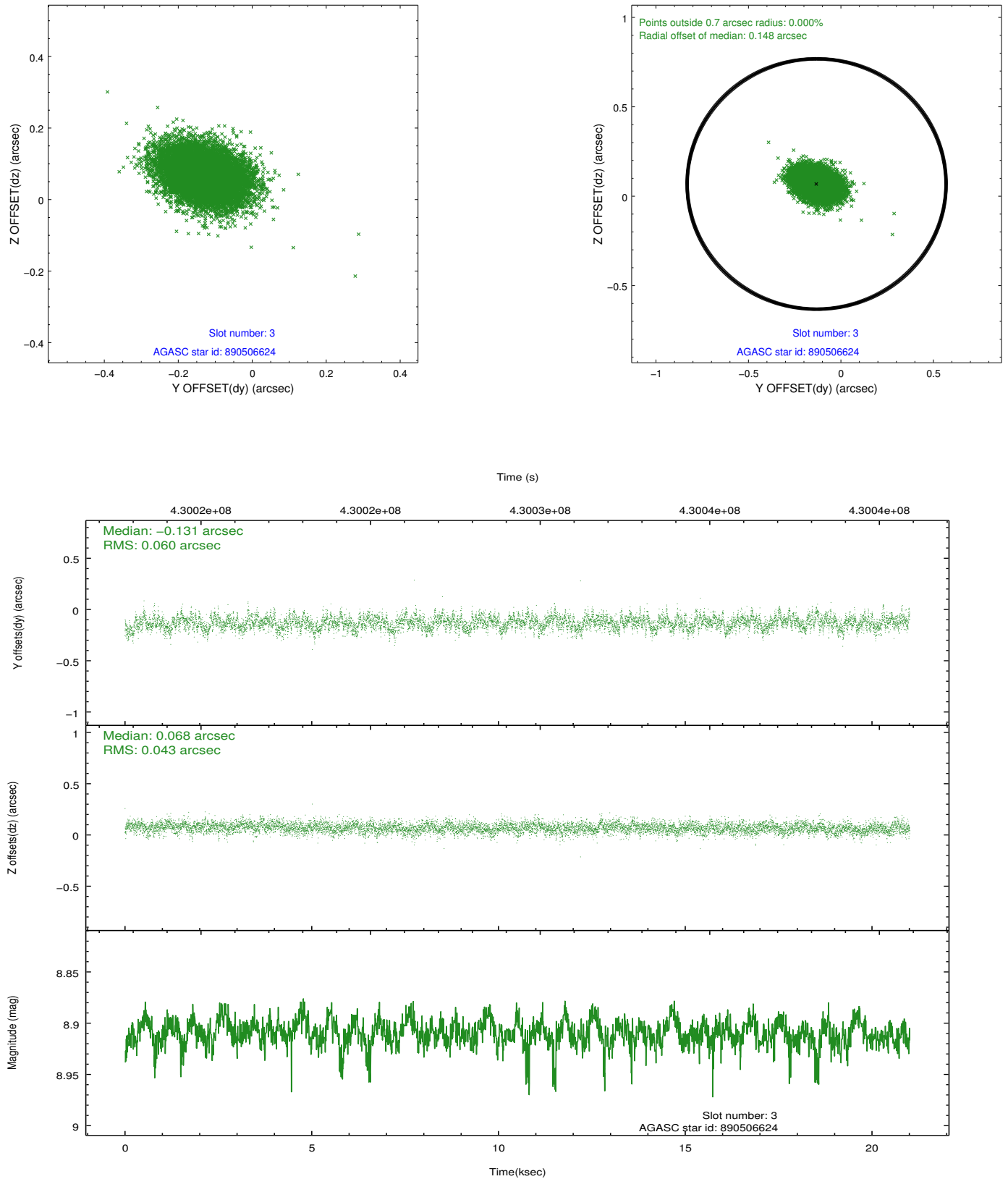


### Slot Statistics

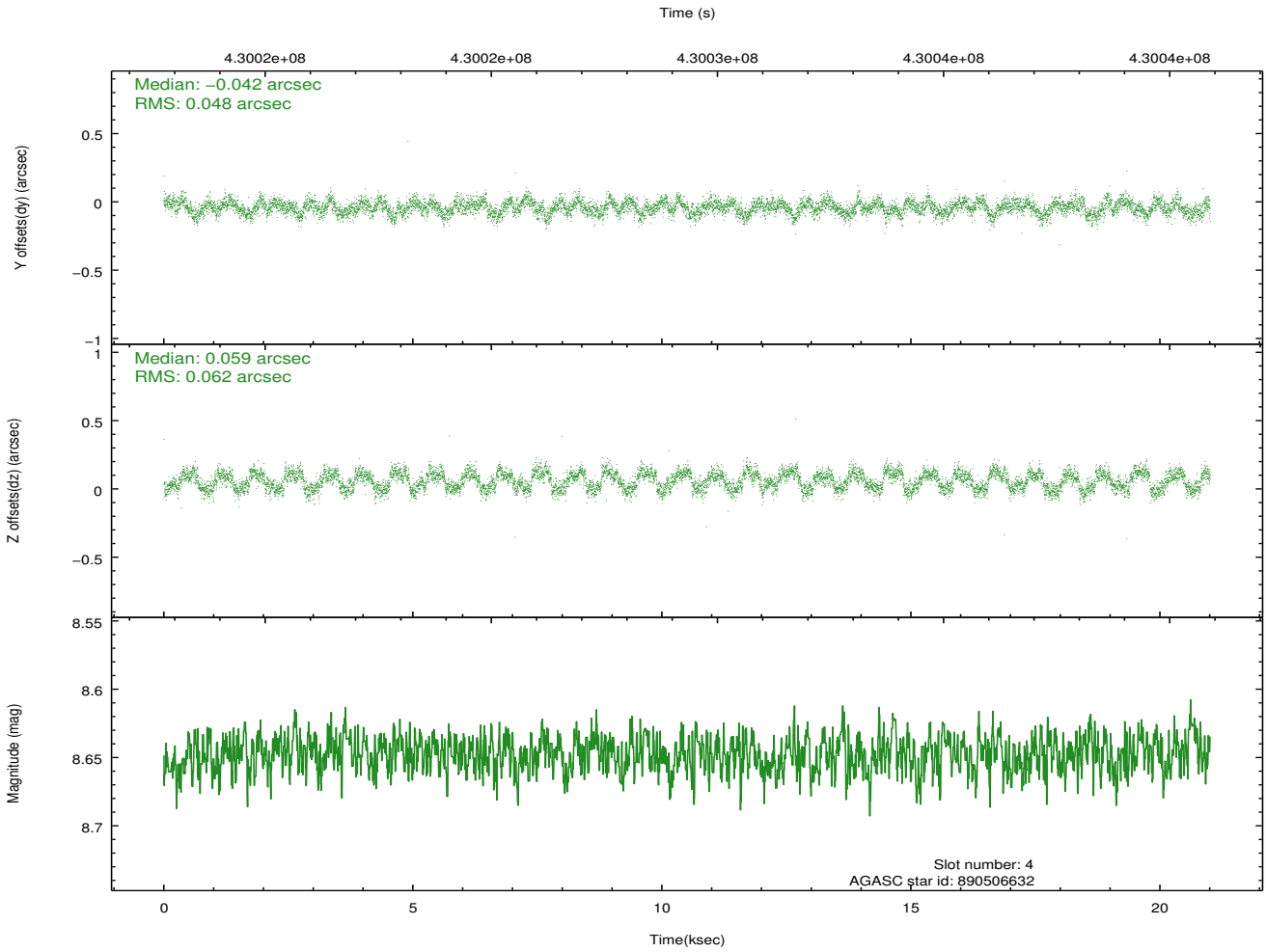
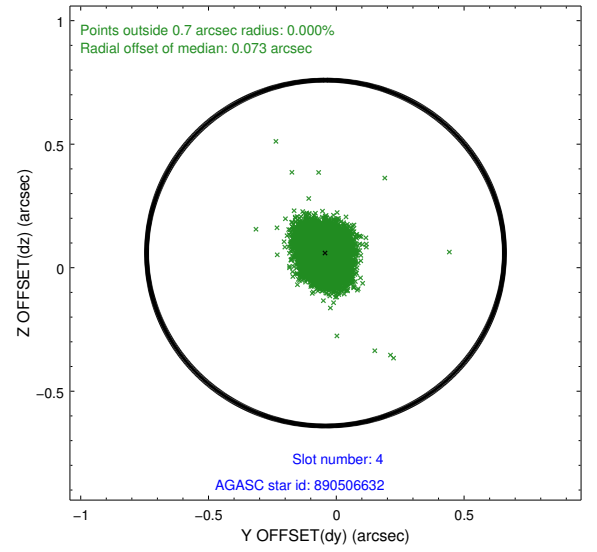
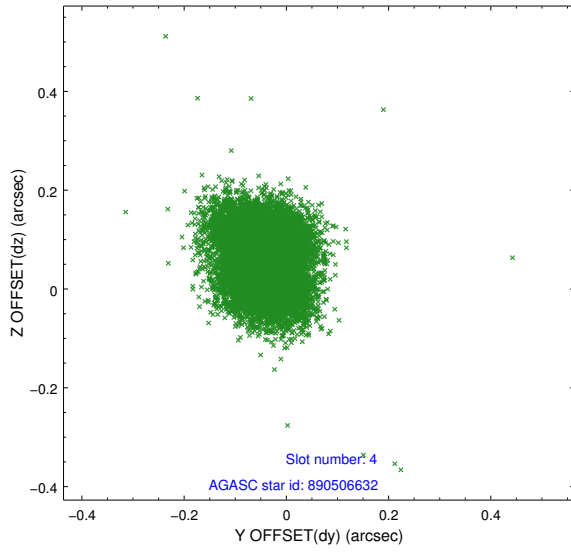
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	5125	0.056	-0.030	0.007	0.013	0.000000	0.000000	931.94	-1730.25
1	FID	ACIS-S-4	7.03	5125	0.124	-0.002	0.006	0.011	0.000000	0.000000	2149.55	173.74
2	FID	ACIS-S-5	7.06	5125	-0.207	0.044	0.006	0.013	0.000000	0.000000	-1816.93	167.65
3	GUIDE	890506624	8.91	10242	-0.131	0.068	0.076	0.130	246.053874	-23.500392	-2245.63	1174.77
4	GUIDE	890506632	8.65	10244	-0.042	0.059	0.084	0.129	244.969990	-24.091213	415.40	-2016.23
5	GUIDE	890506712	8.42	10246	0.236	-0.217	0.069	0.109	245.019125	-24.365985	1366.76	-1699.10
6	GUIDE	890506752	8.71	10173	-0.018	0.245	0.087	0.135	245.184812	-23.845052	-572.29	-1460.81
7	GUIDE	890507576	7.38	10249	-0.044	-0.149	0.063	0.104	245.329963	-23.707983	-1135.37	-1067.62

## 2.4 Star Slots

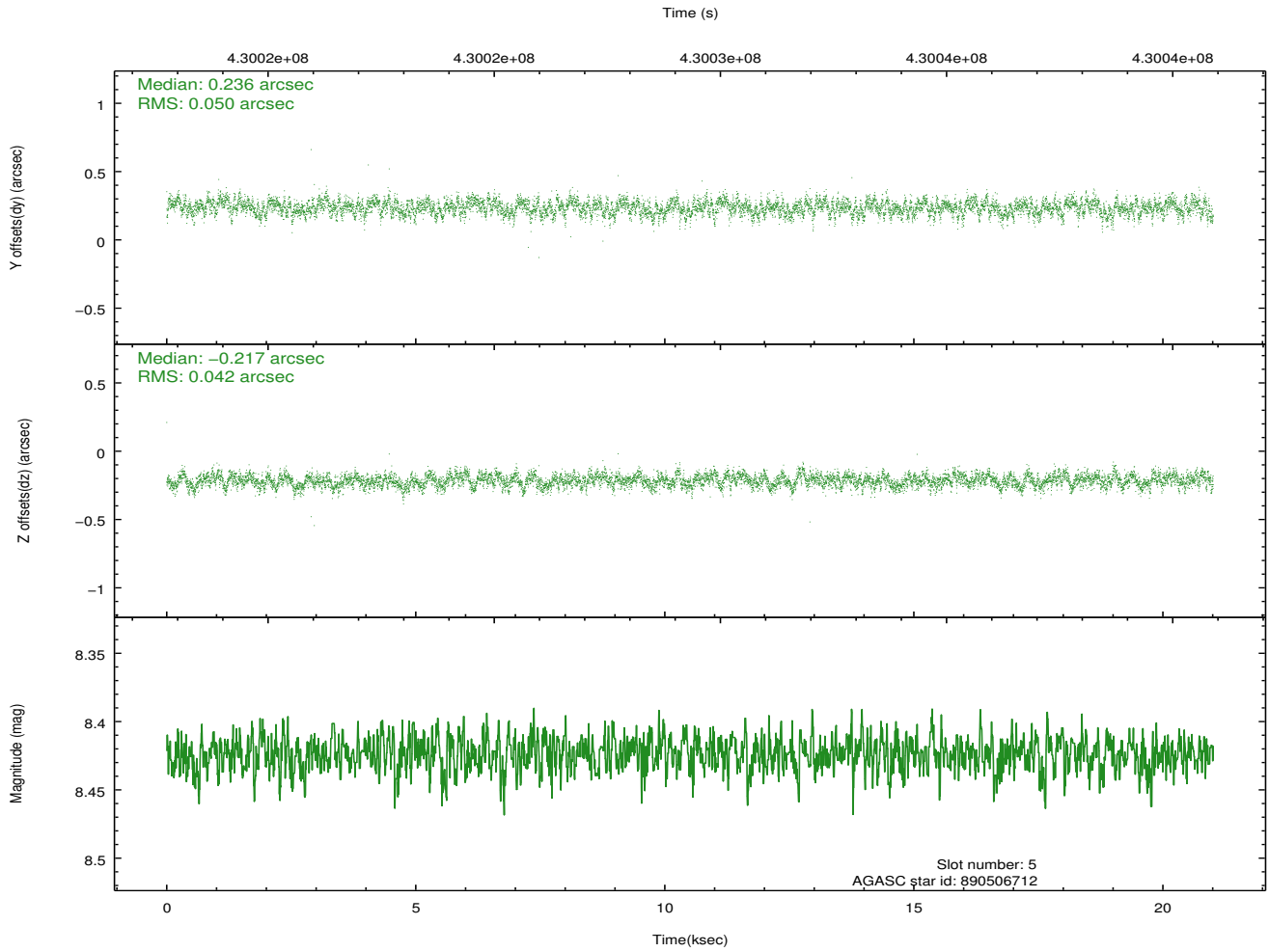
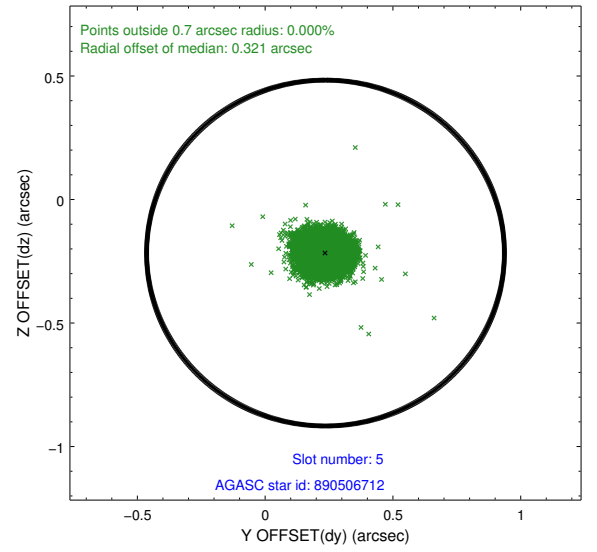
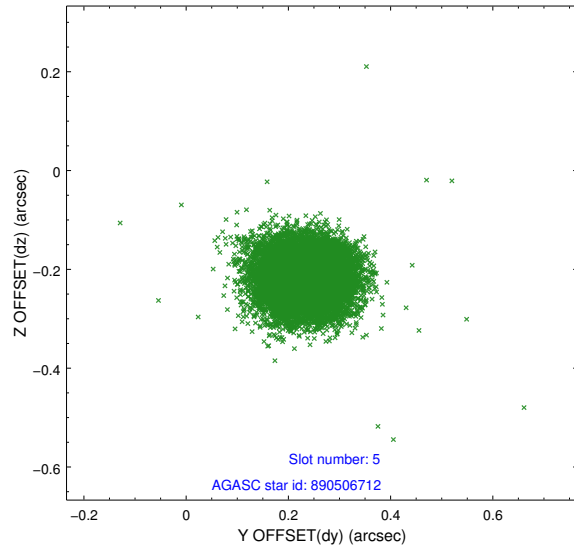
### 2.4.1 Slot 3



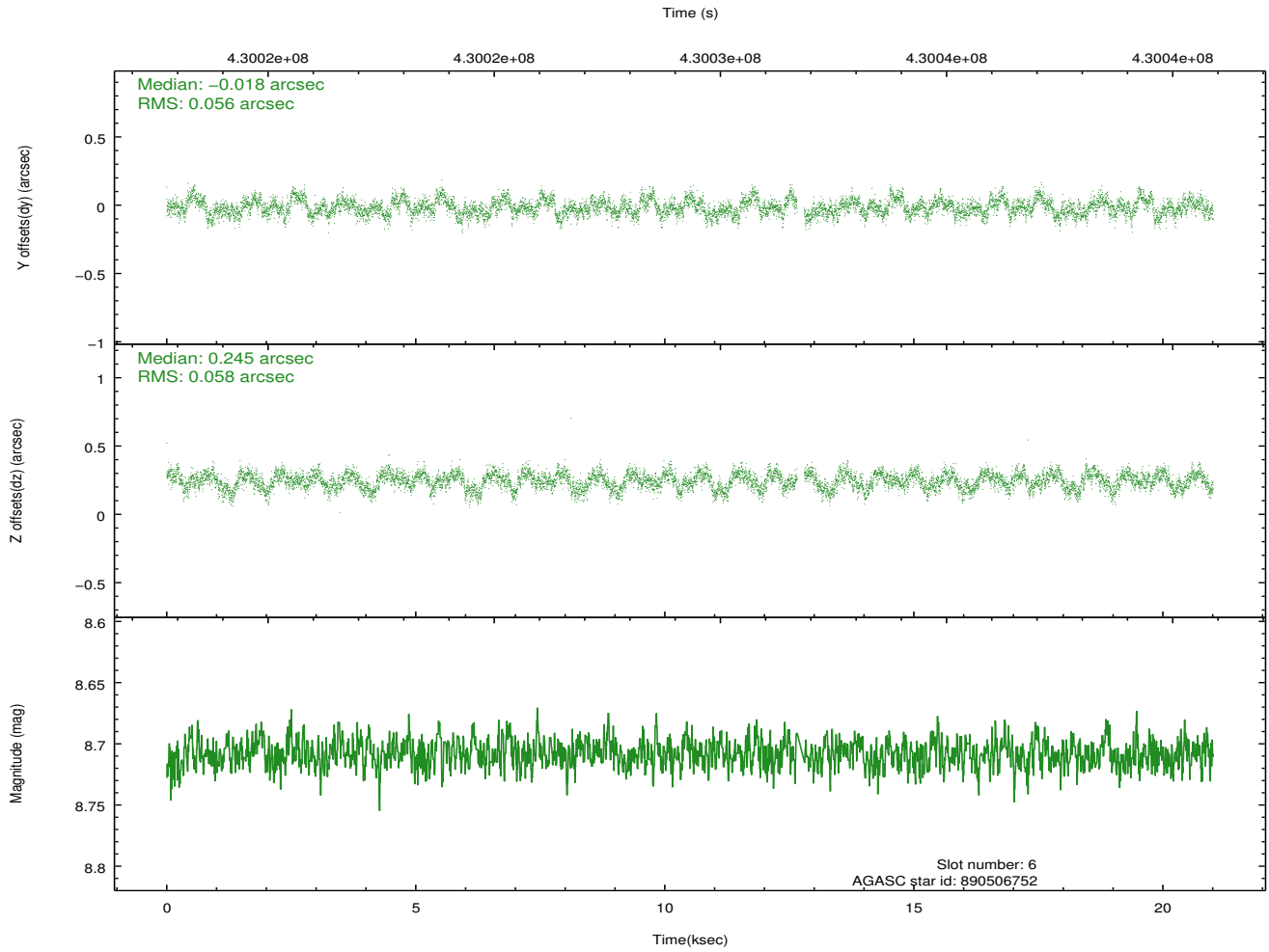
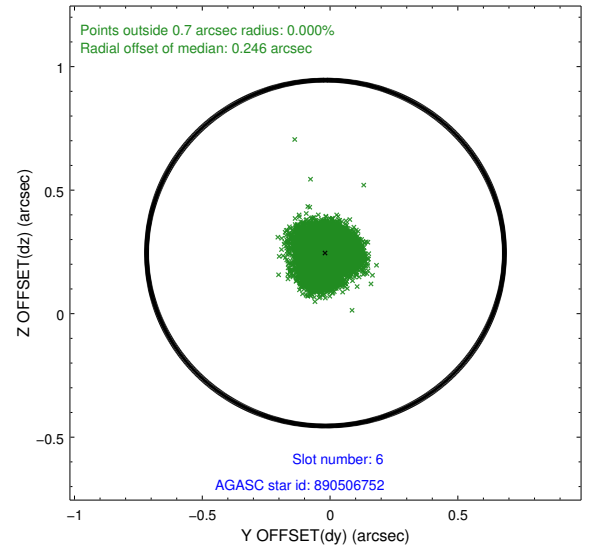
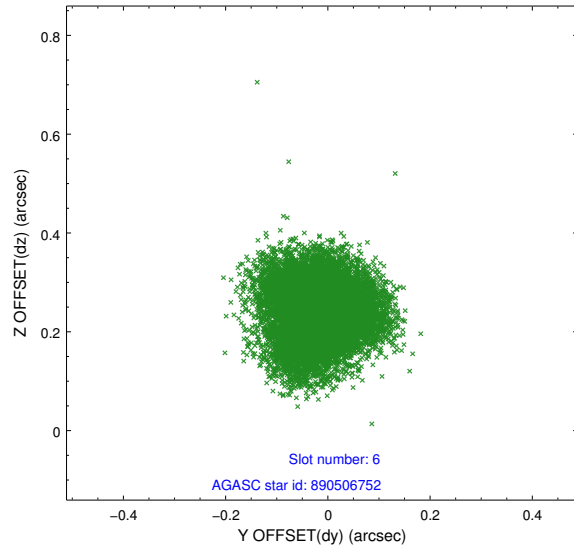
## 2.4.2 Slot 4



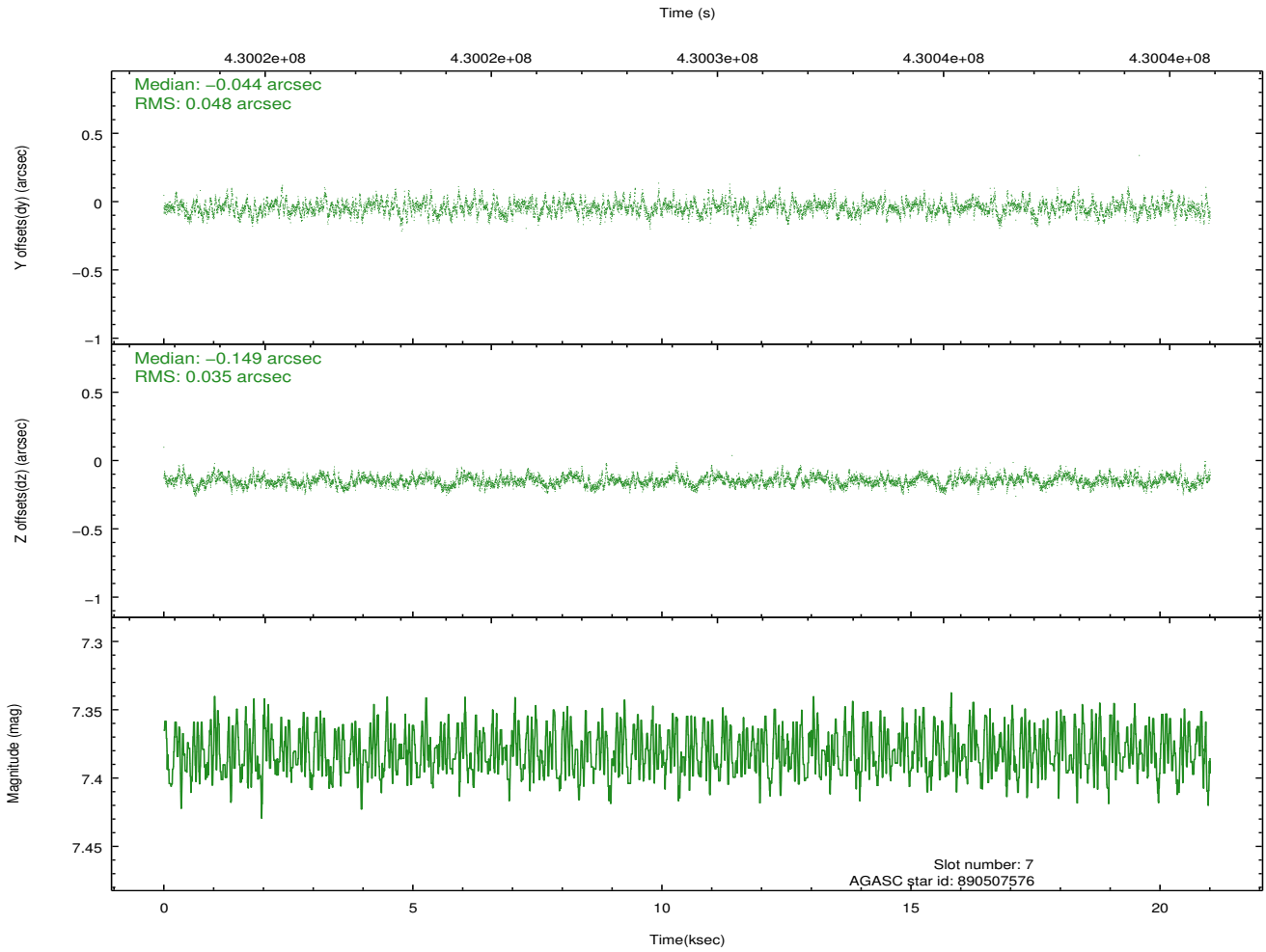
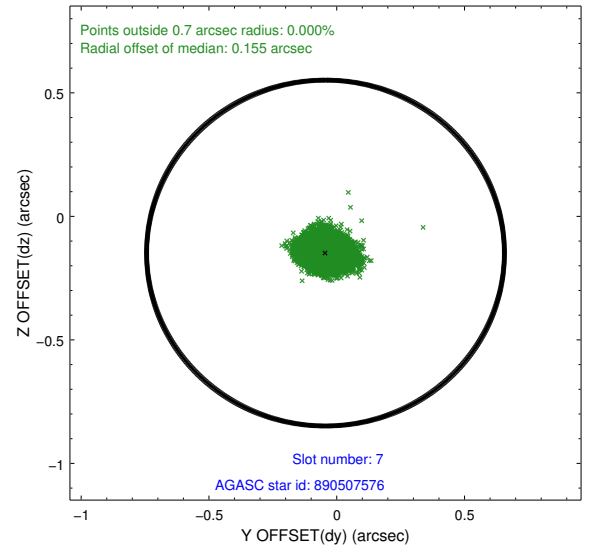
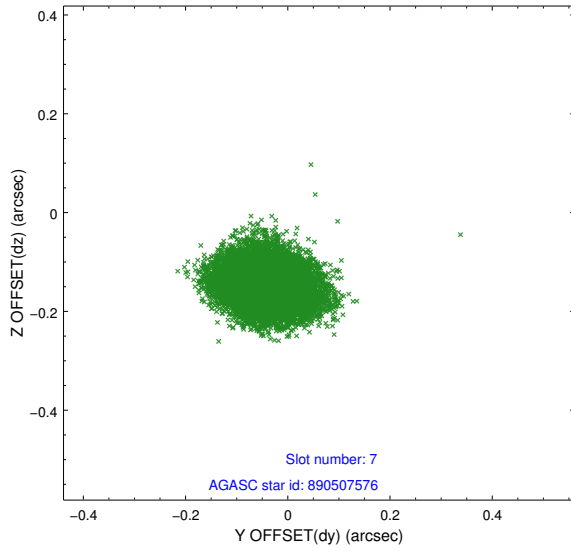
### 2.4.3 Slot 5



## 2.4.4 Slot 6

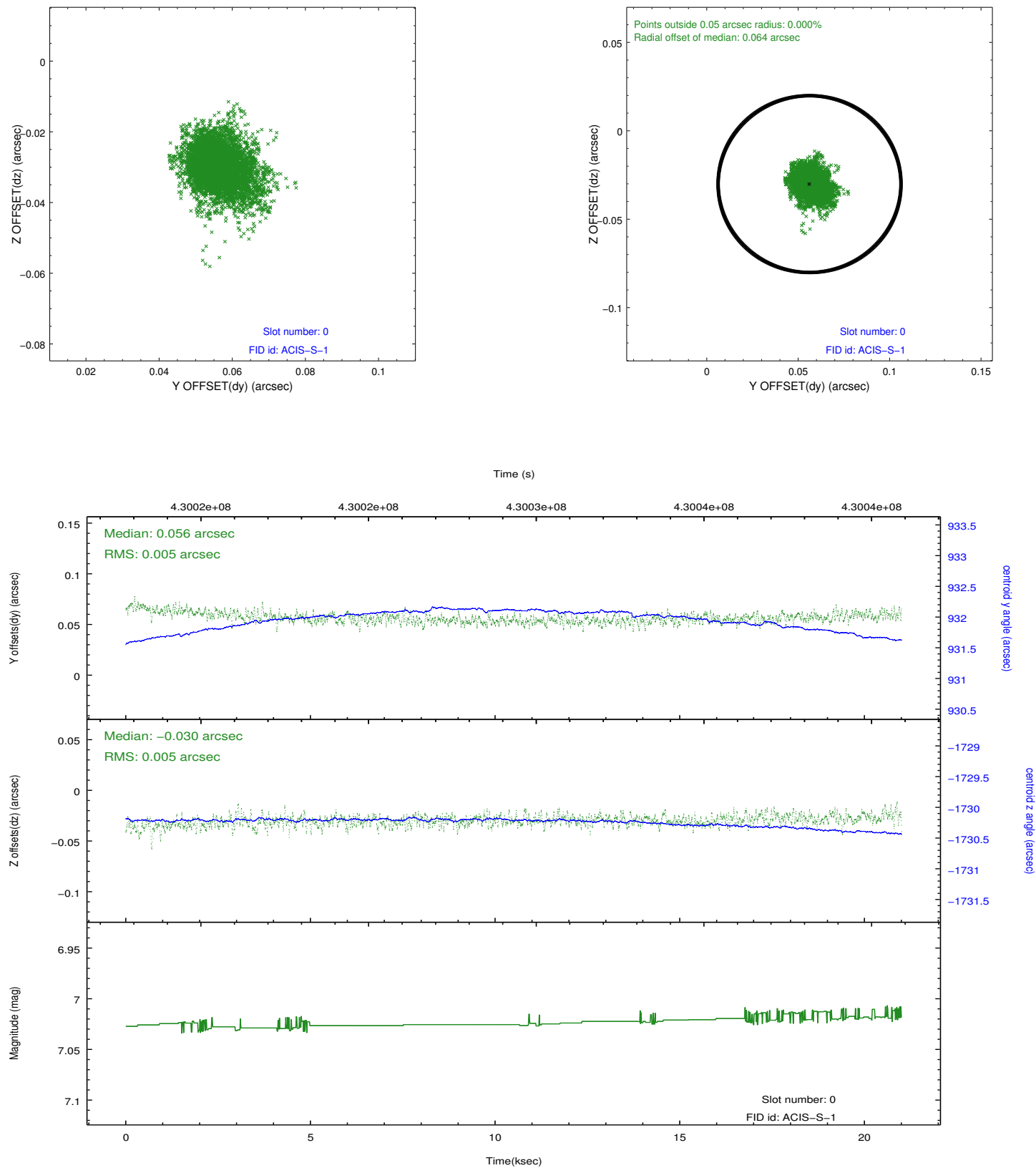


## 2.4.5 Slot 7

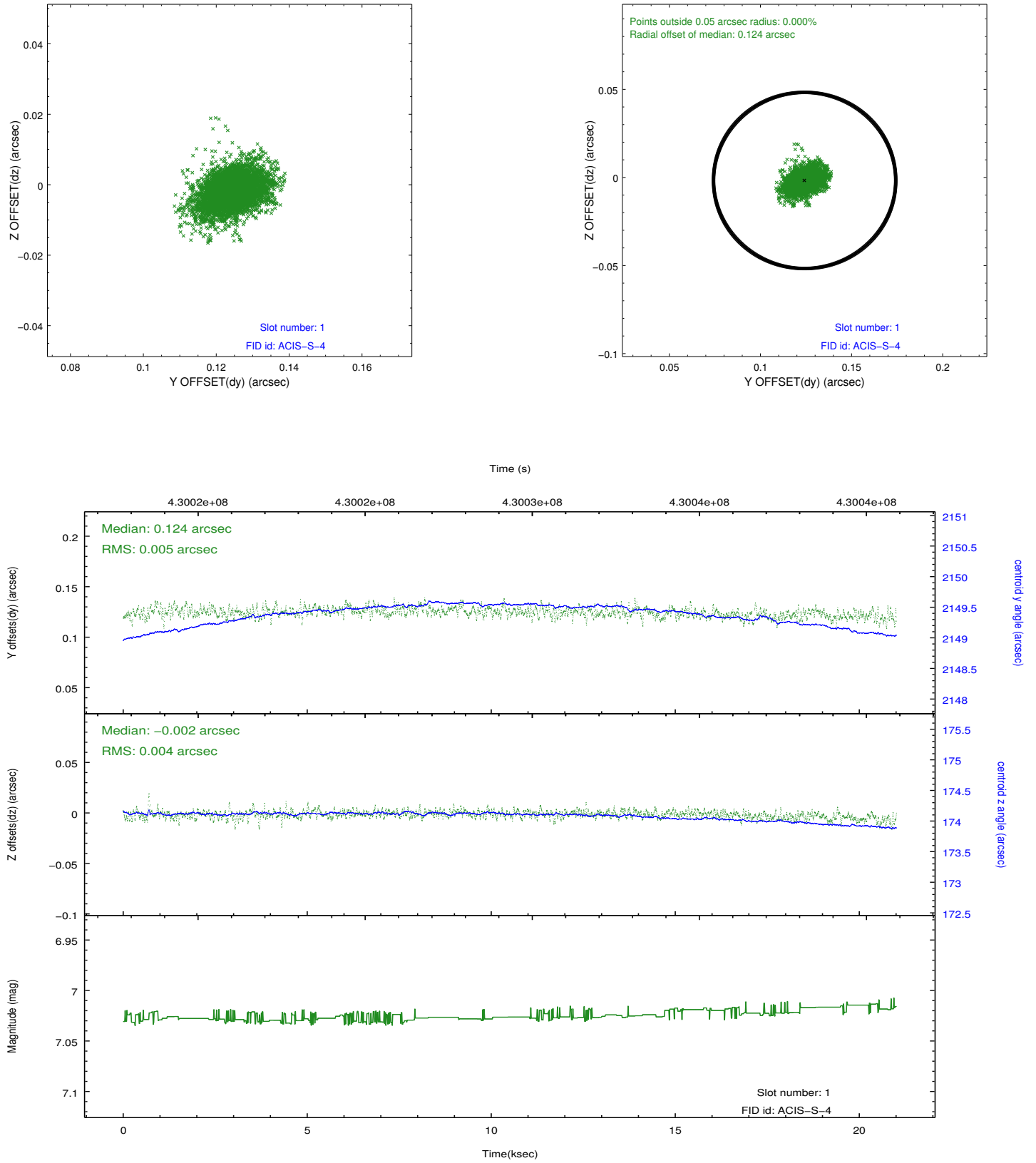


## 2.5 FID Slots

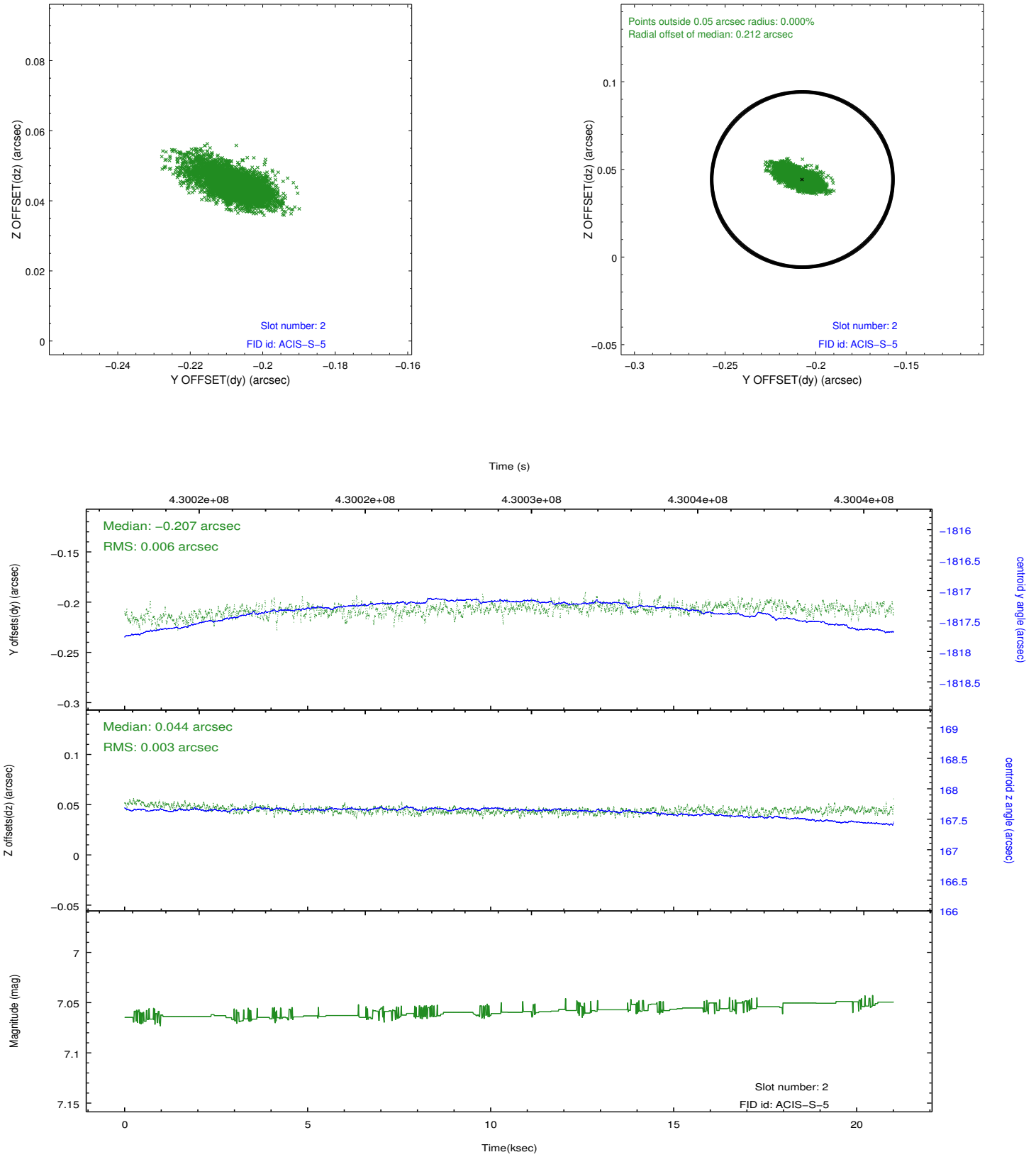
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.047999925375

### **A.2 Comments**