

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10559 - L2 Version 2  
Chandra X-Ray Center

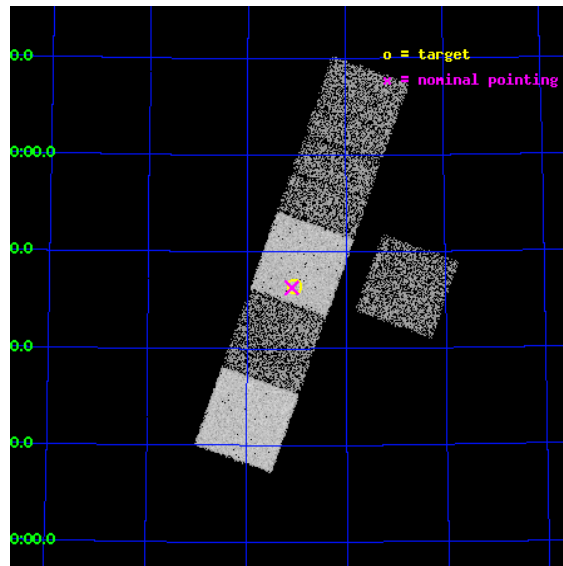
L2 Processing Date : Jun 8 2012

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# 1 Front

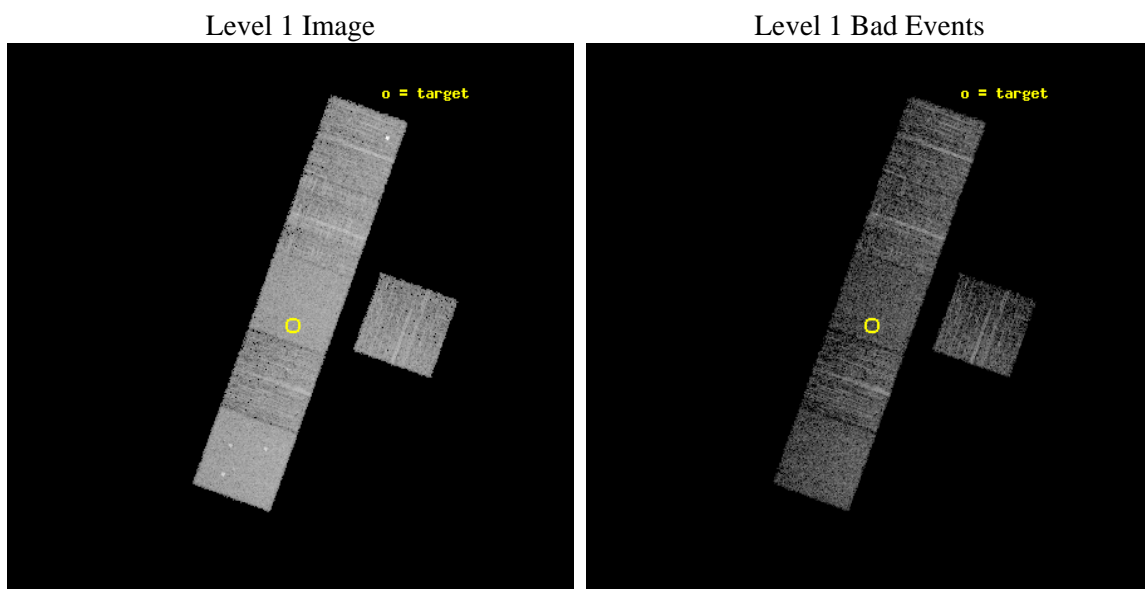
seq_num	600752	Sequence number
obs_id	10559	Observation id
title	X-Rays from Blue Compact Dwarf Galaxies	Proposal title
observer	Prof. Philip Kaaret	Principal investigator
object	UGC 04483	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.26375	Observer's specified target RA [deg]
dec_targ	69.774778	Observer's specified target Dec [deg]
ra_nom	129.27439628906	Nominal RA [deg]
dec_nom	69.771611752124	Nominal Dec [deg]
roll_nom	289.69652799797	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3132.799988389	Sum of GTIs [s]
livetime	3093.1305885904	Livetime [s]
ontime3	3132.799988389	Sum of GTIs [s]
ontime5	3132.799988389	Sum of GTIs [s]
ontime6	3132.799988389	Sum of GTIs [s]
ontime7	3132.799988389	Sum of GTIs [s]
ontime8	3132.799988389	Sum of GTIs [s]
ontime9	3132.799988389	Sum of GTIs [s]
l2events	56027	Number of level 2 events



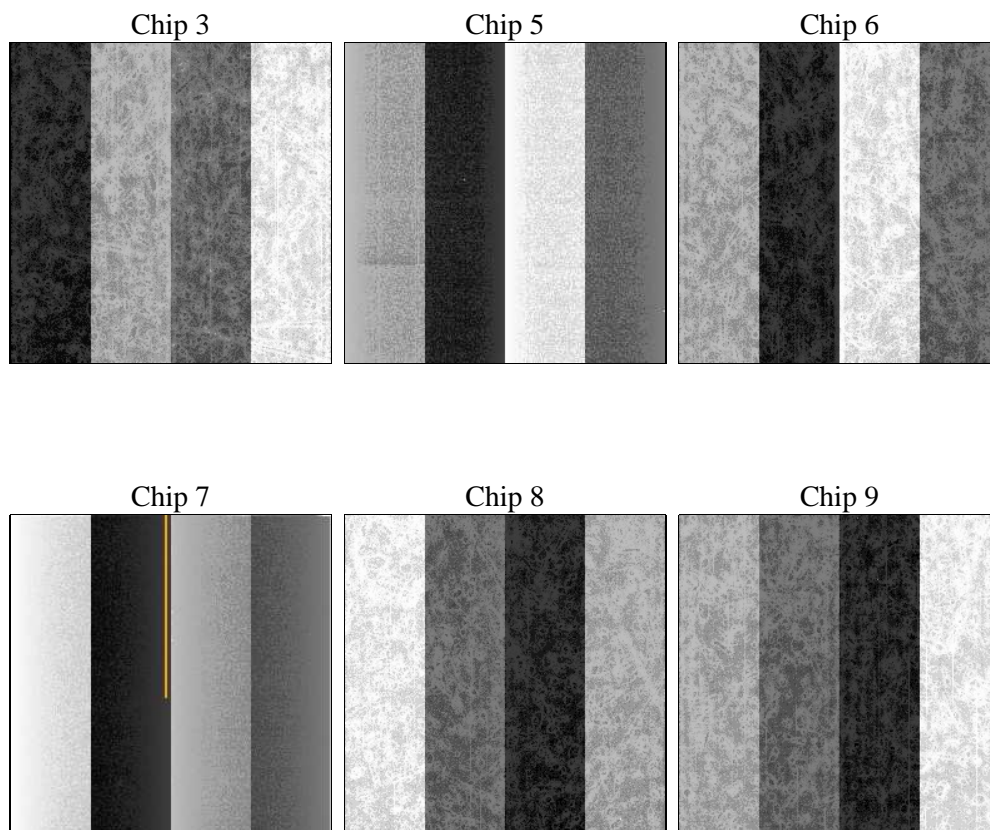
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3132.799988389	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime3	3132.799988389	Sum of GTIs [s]
date	2012-06-08T06:00:20	Date and time of file creation	ontime5	3132.799988389	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3132.799988389	Sum of GTIs [s]
			ontime7	3132.799988389	Sum of GTIs [s]
			ontime8	3132.799988389	Sum of GTIs [s]
			ontime9	3132.799988389	Sum of GTIs [s]
			l1events	304934	Number of level 1 events

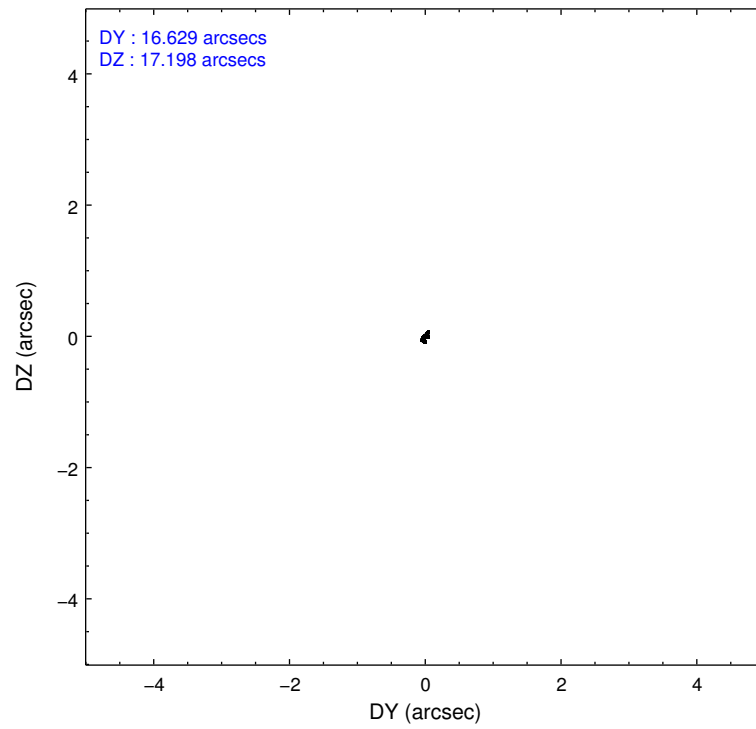
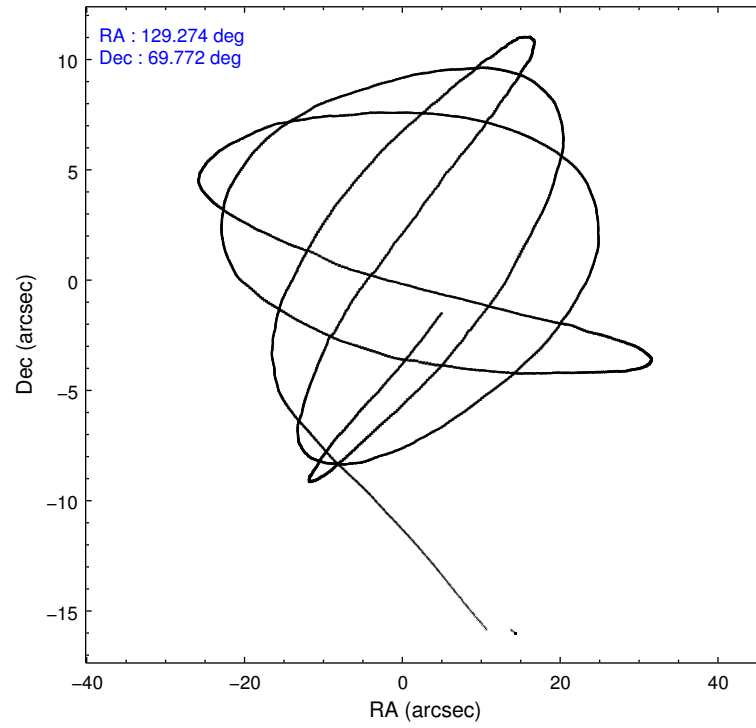
### 2.1.4 Events

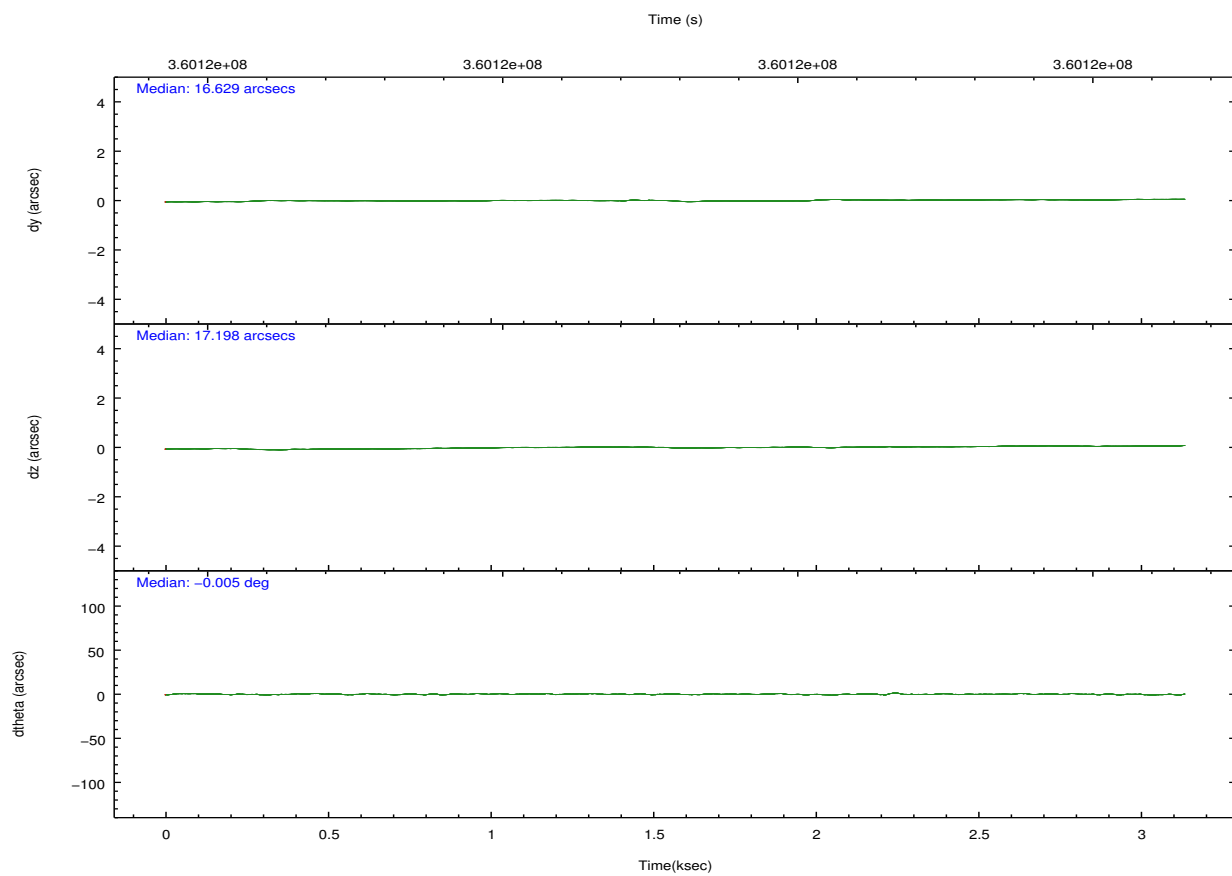
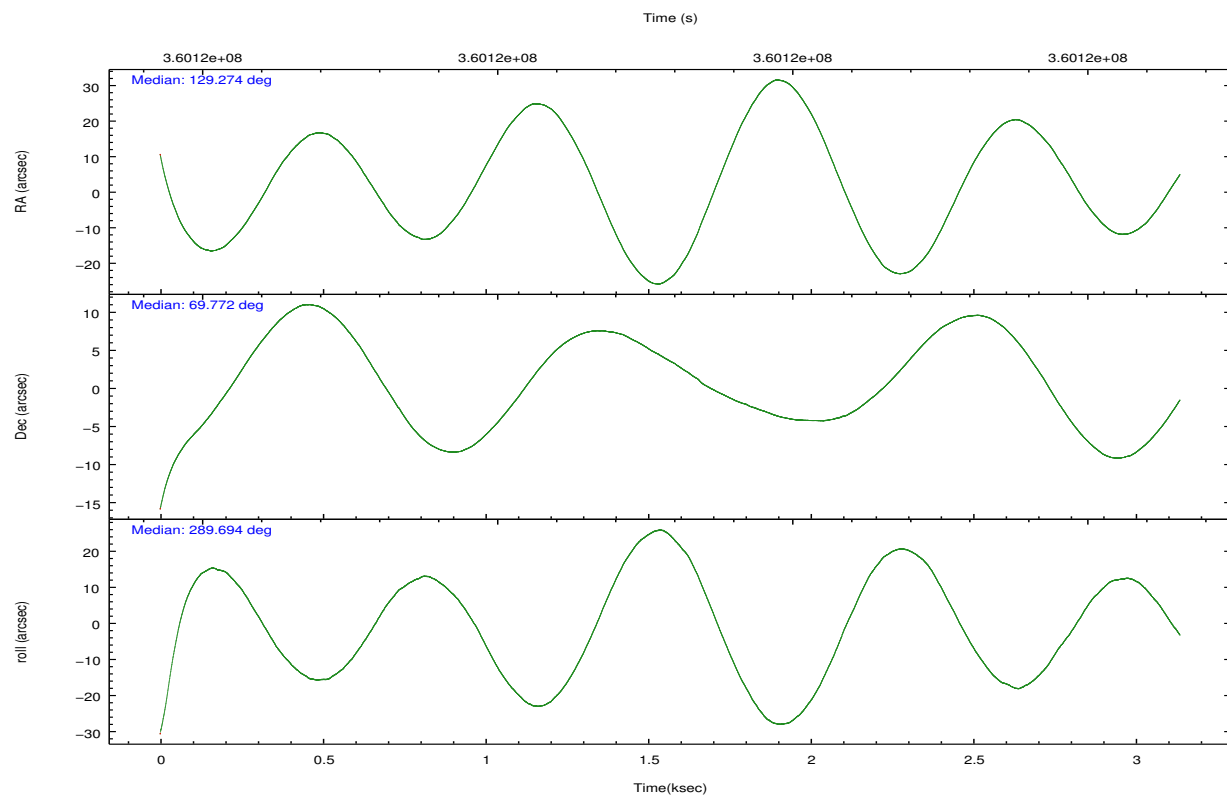
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	38482	65318	42262	57858	54075	46939	grade 0 events	2139	2844	2110	1992	4162	2272
rejected events	34574	41626	38057	38753	43663	41017		5%	4%	4%	3%	7%	4%
rejected %	89%	63%	90%	66%	80%	87%	grade 1 events	31	126	23	56	48	15
								0%	0%	0%	0%	0%	0%
							grade 2 events	982	9161	1155	4940	2870	3213
								2%	14%	2%	8%	5%	6%
							grade 3 events	488	1069	479	2070	1448	525
								1%	1%	1%	3%	2%	1%
							grade 4 events	448	1026	431	2011	1341	477
								1%	1%	1%	3%	2%	1%
							grade 5 events	2017	4563	2018	5444	2670	2244
								5%	6%	4%	9%	4%	4%
							grade 6 events	891	16000	1081	13392	3285	1070
								2%	24%	2%	23%	6%	2%
							grade 7 events	31486	30529	34965	27953	38251	37123
								81%	46%	82%	48%	70%	79%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-356789	ACIS-356789	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	129.213658	129.2743962890589	CCD I2 on	N	N
[deg] Pointing Dec	69.789136	69.77161175212393	CCD I3 on	O3	Y
[deg] Pointing Roll	289.596995	289.6965279979651	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	360122150.184000	360120675.69168	CCD S5 on	O1	Y
Observation start date	2009-05-31T01:54:44	2009-05-31T01:31:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	360125150.184000	360126173.79195	On-chip summing requested	N	N
Observation end date	2009-05-31T02:44:44	2009-05-31T03:02:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





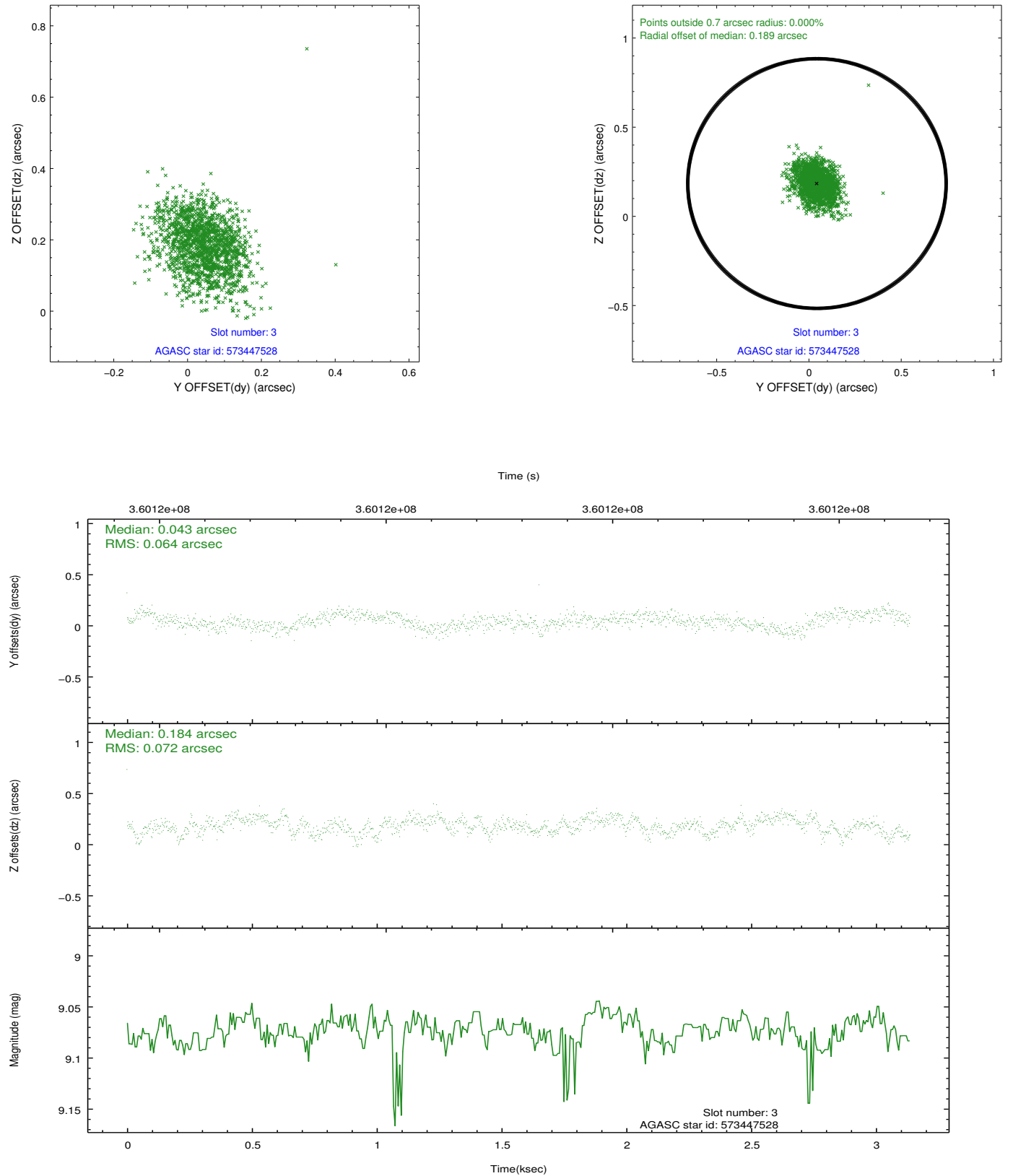
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.94	766	0.102	-0.086	0.007	0.012	0.000000	0.000000	926.48	-1734.30
1	FID	ACIS-S-5	6.99	766	-0.106	0.079	0.006	0.010	0.000000	0.000000	-1821.59	161.34
2	FID	ACIS-S-6	7.08	766	-0.018	0.019	0.008	0.013	0.000000	0.000000	389.73	807.52
3	GUIDE	573447528	9.07	1530	0.043	0.184	0.101	0.161	128.670181	69.968339	-835.19	-413.07
4	GUIDE	573448632	9.31	1530	0.059	0.092	0.113	0.183	128.708760	69.685369	138.34	-719.83
5	GUIDE	573842336	9.30	1528	-0.057	0.020	0.089	0.142	128.692933	70.382522	-2226.05	124.76
6	GUIDE	573844304	6.99	1530	-0.109	-0.199	0.067	0.110	130.752295	70.164537	-666.63	2232.01
7	GUIDE	573448680	8.76	1528	0.060	-0.104	0.070	0.114	129.906360	69.162136	2418.88	83.15

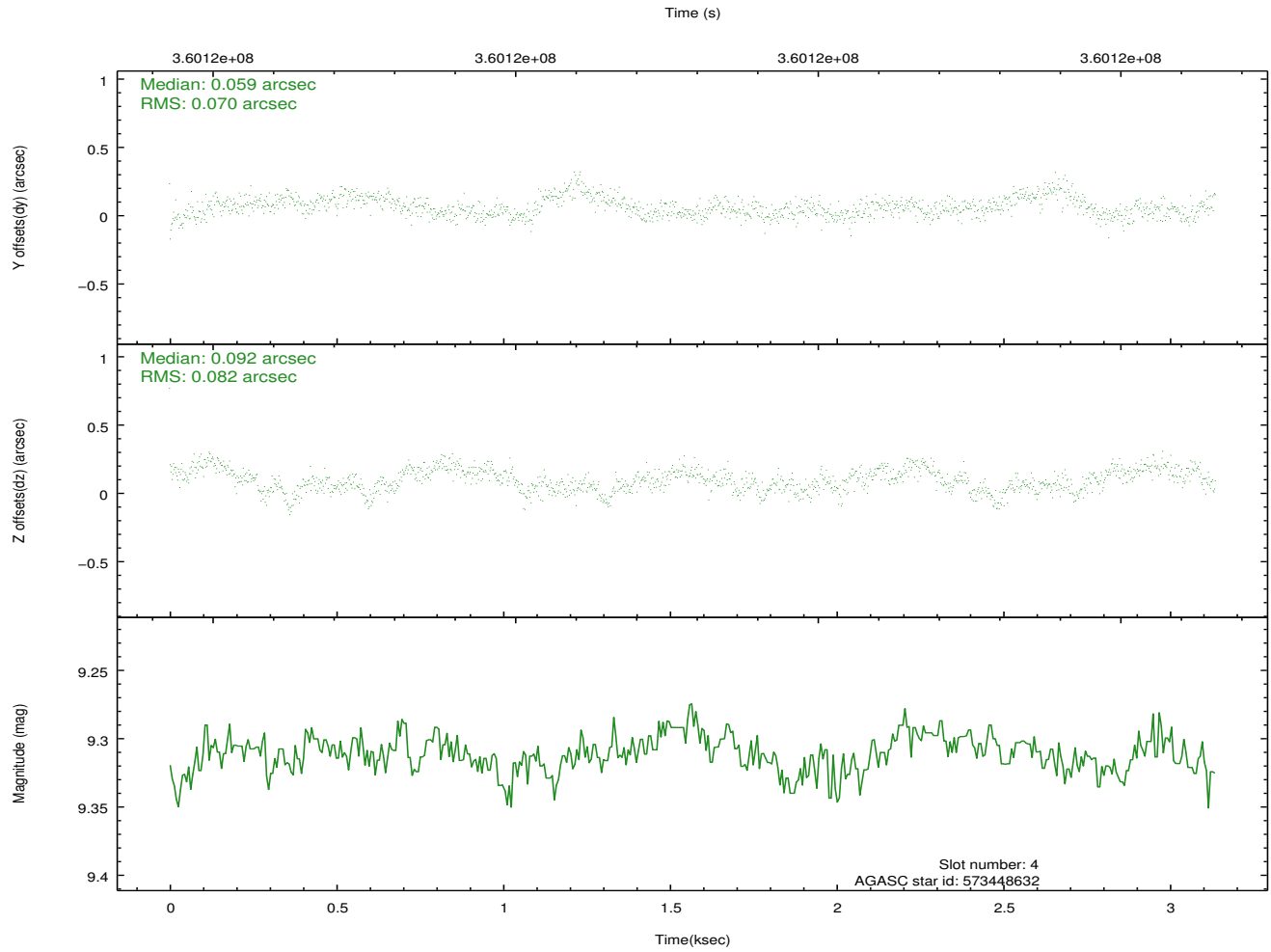
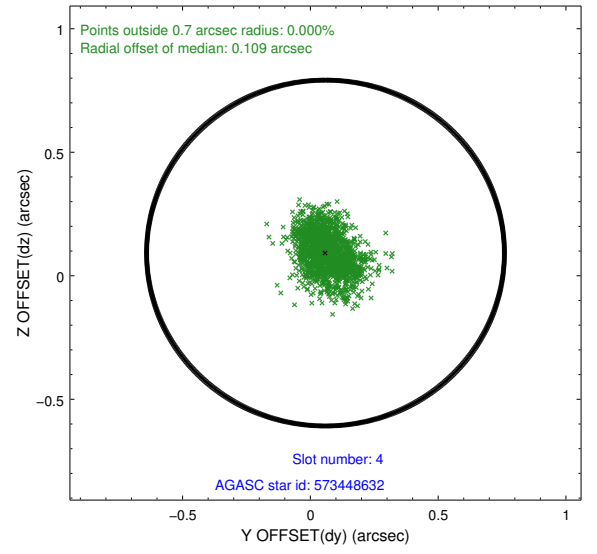
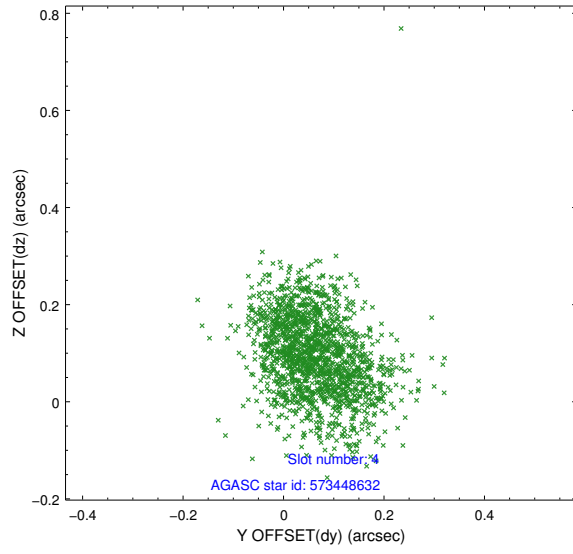


## 2.4 Star Slots

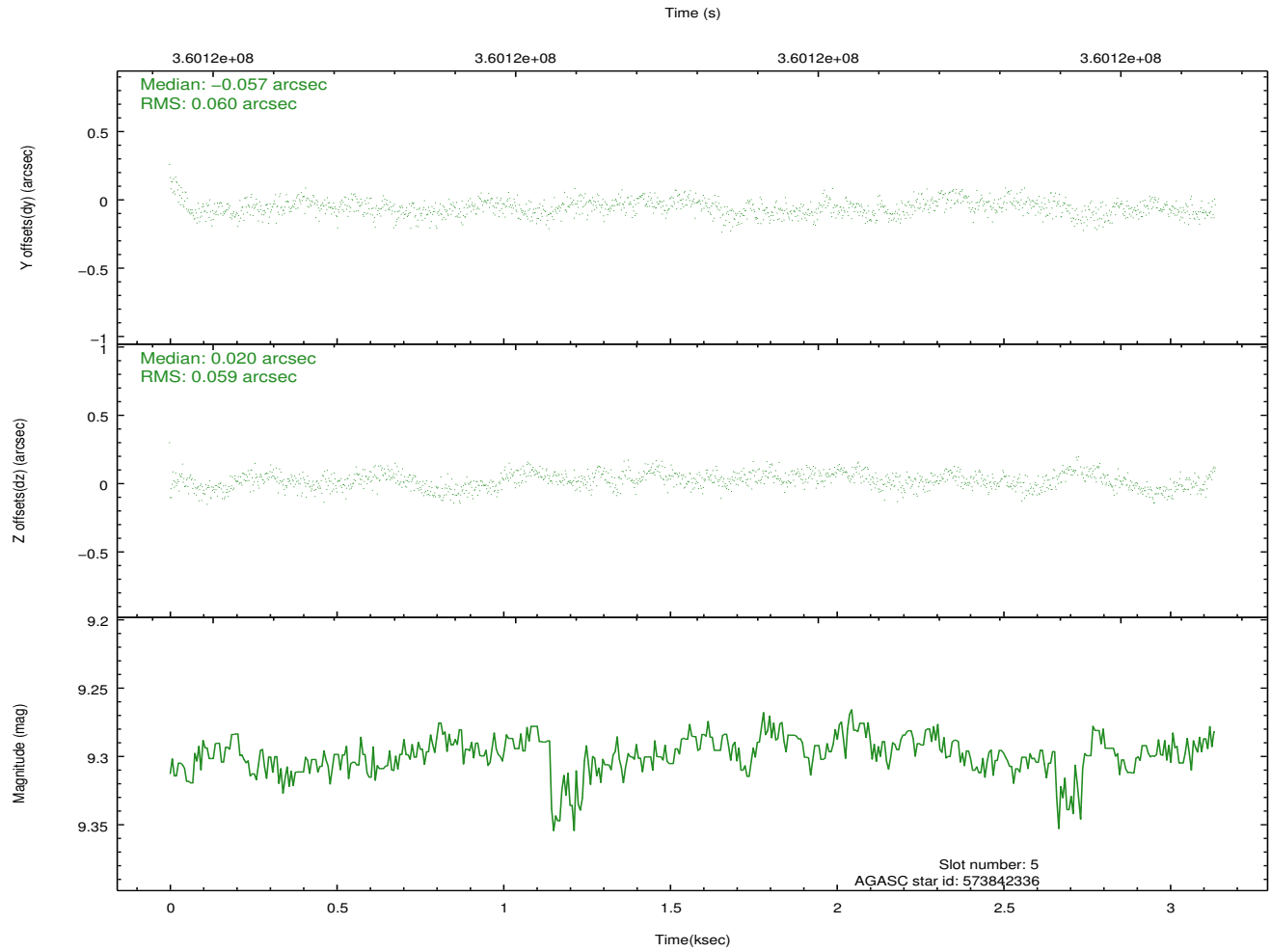
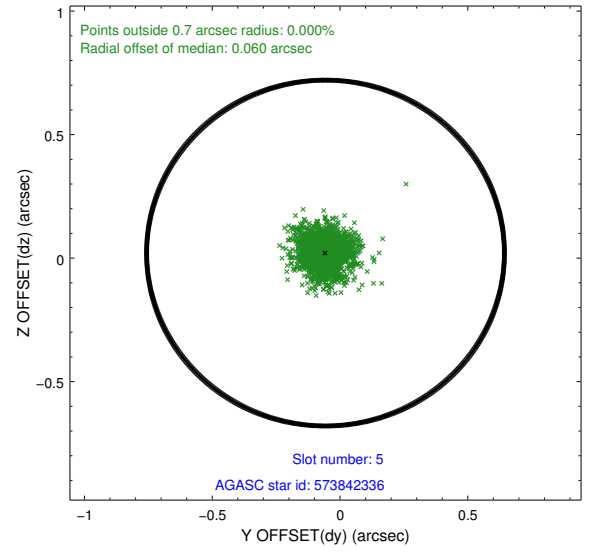
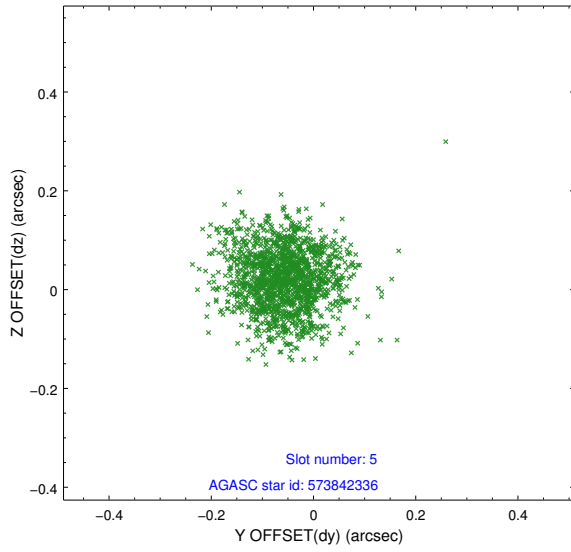
### 2.4.1 Slot 3



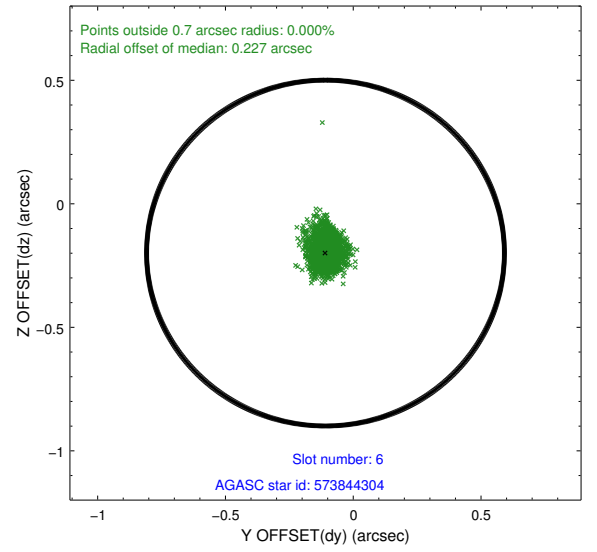
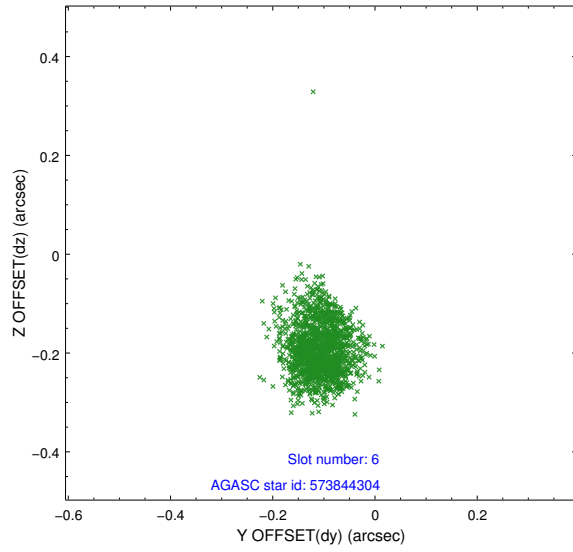
## 2.4.2 Slot 4



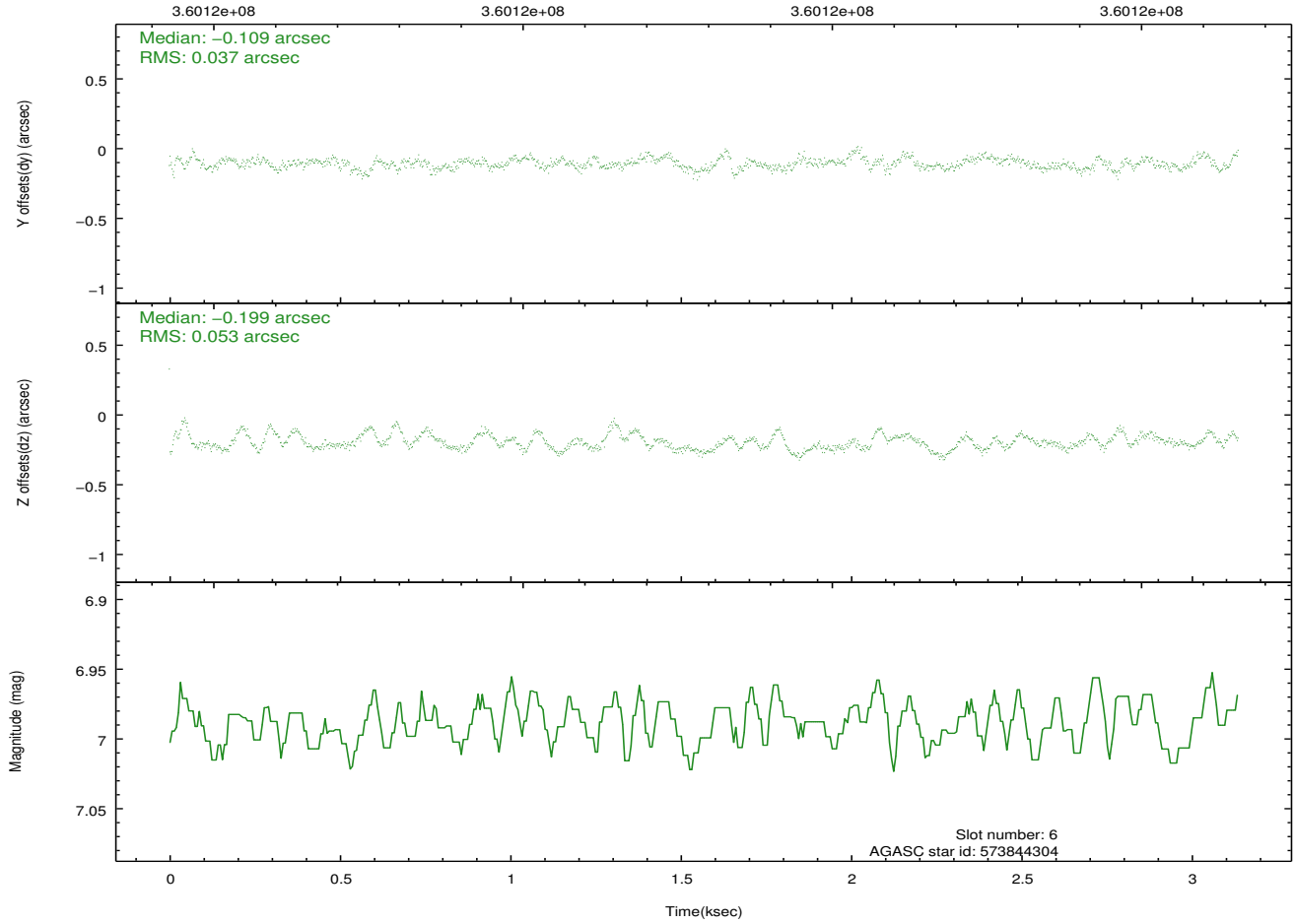
### 2.4.3 Slot 5



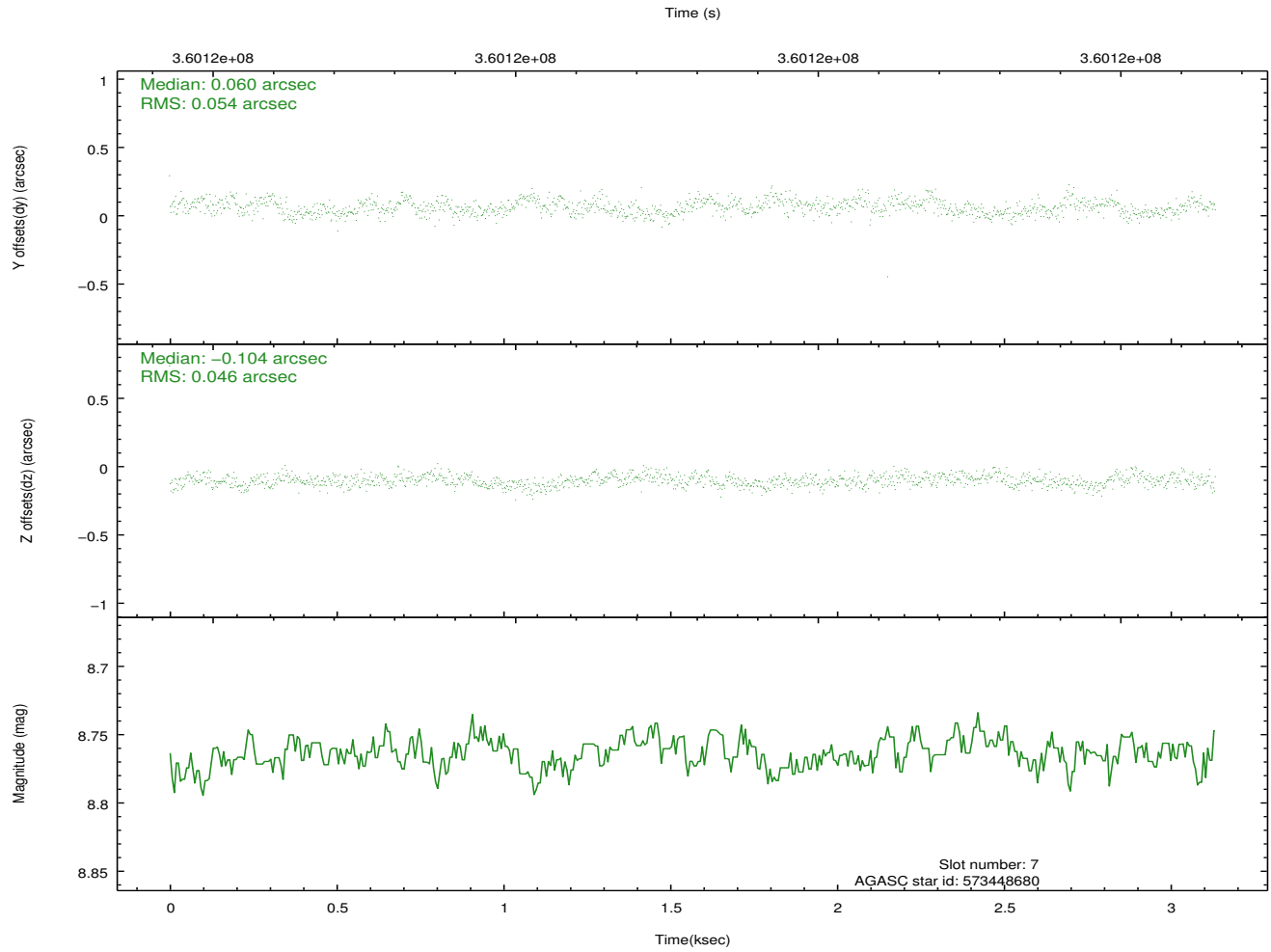
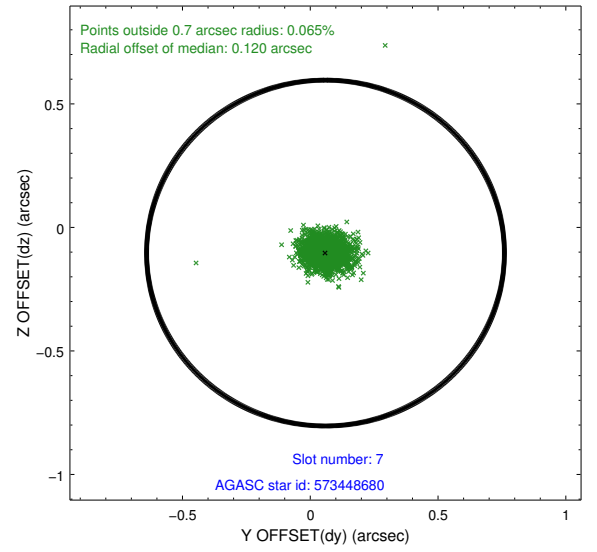
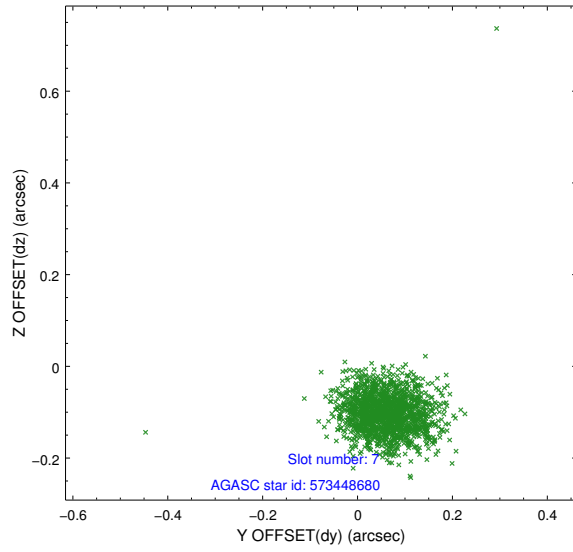
## 2.4.4 Slot 6



Time (s)

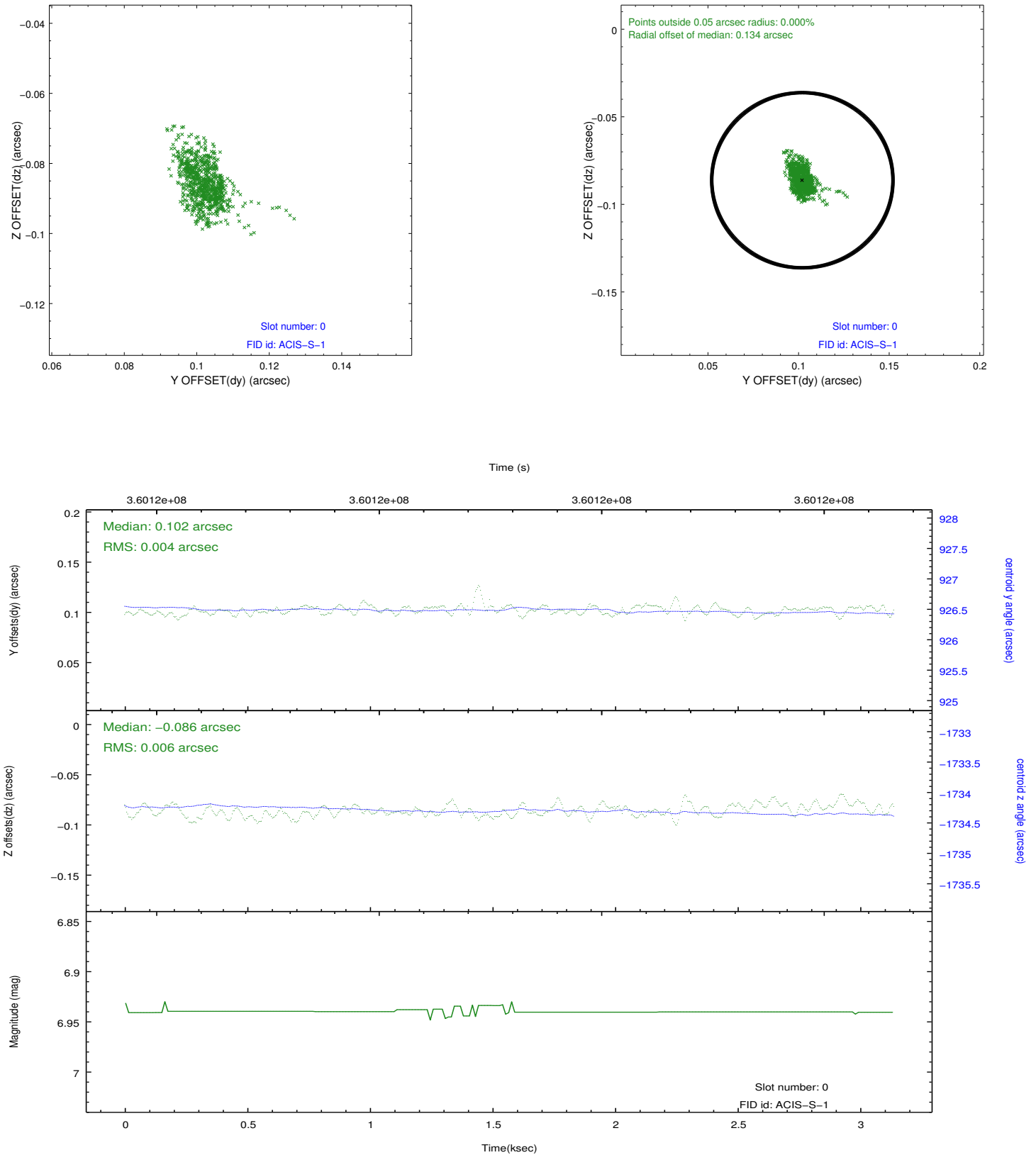


## 2.4.5 Slot 7

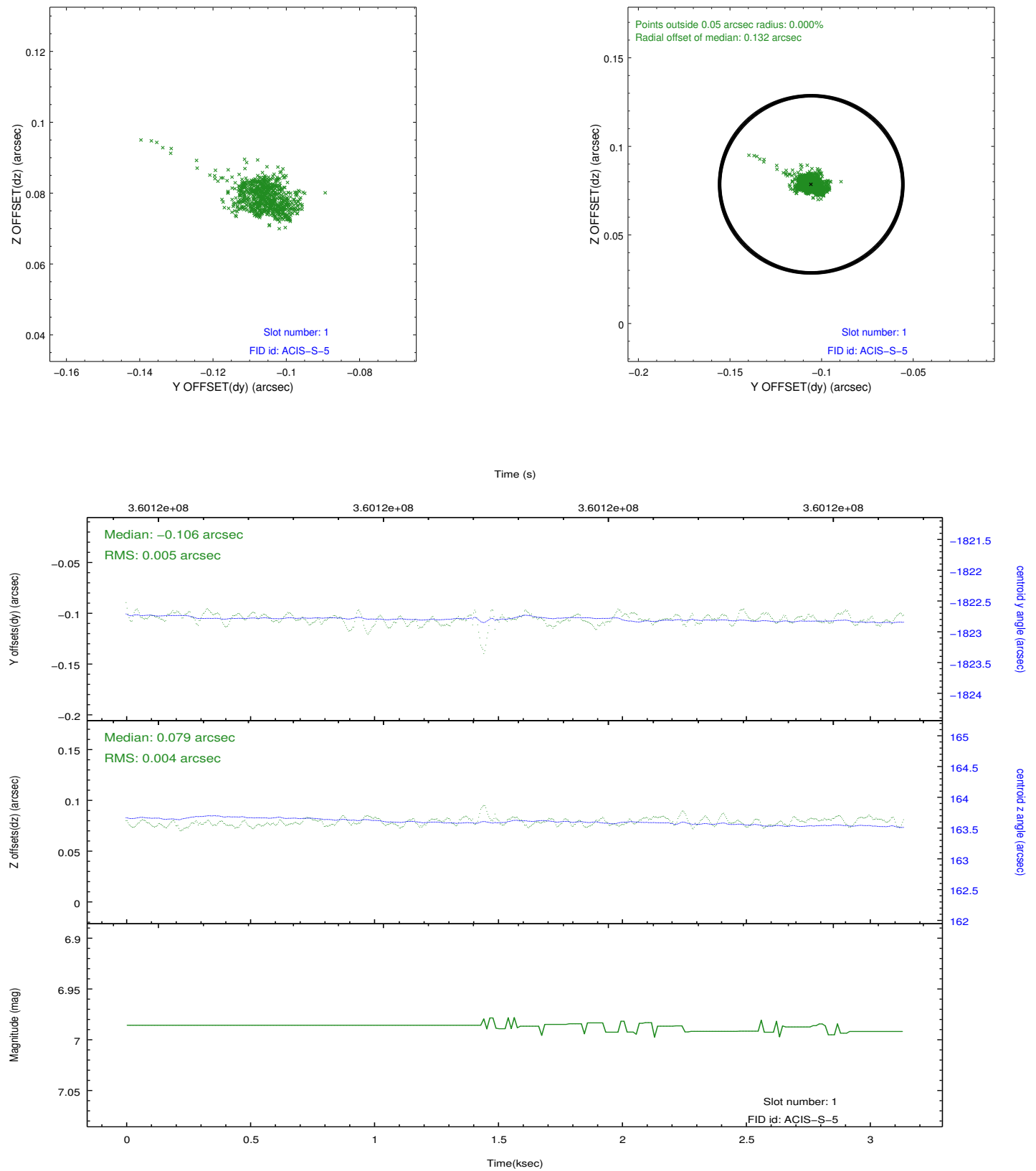


## 2.5 FID Slots

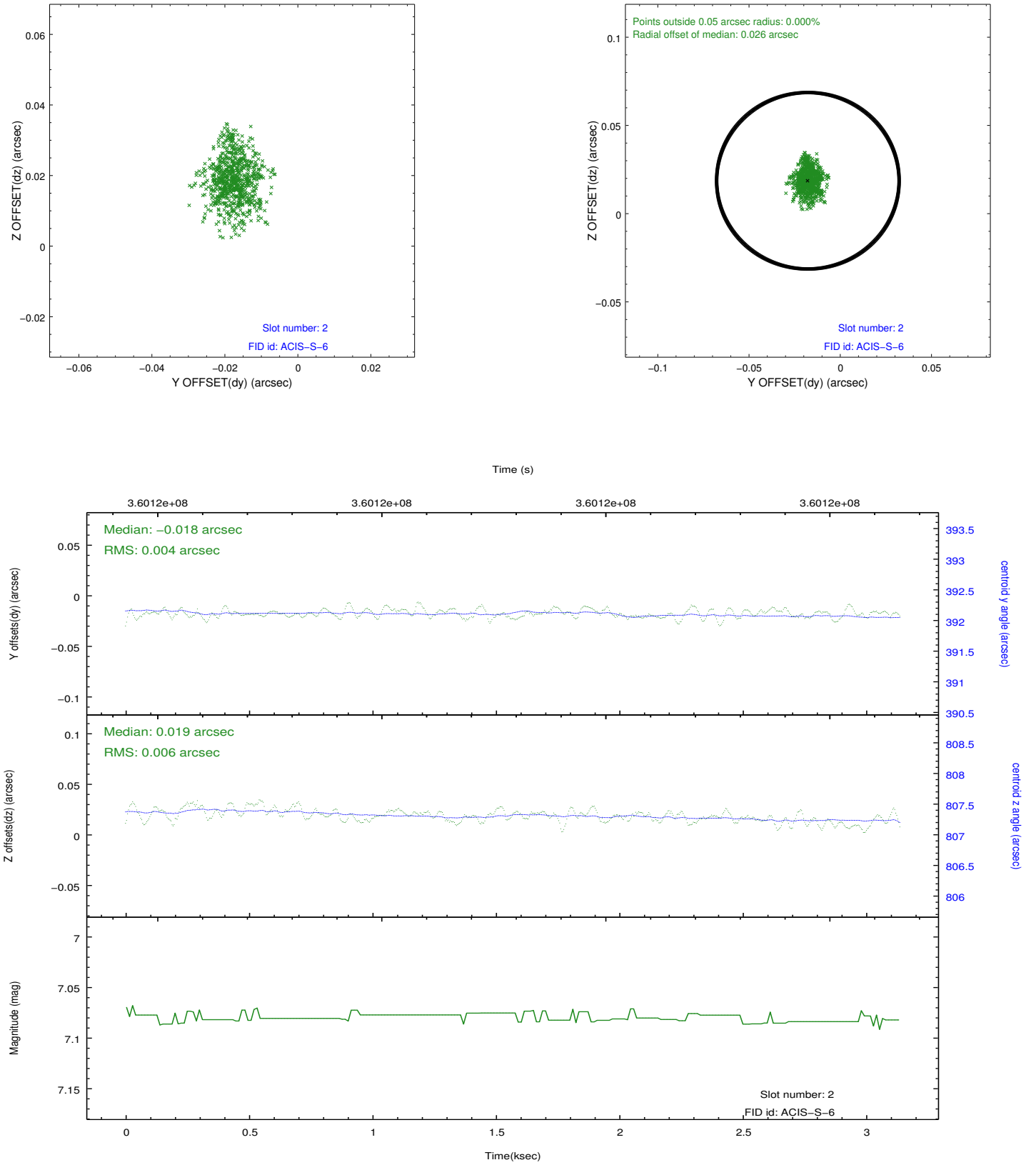
### 2.5.1 Slot 0



## 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)	2012.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.13279998

### A.2 Comments