

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7125 - L2 Version 2  
Chandra X-Ray Center

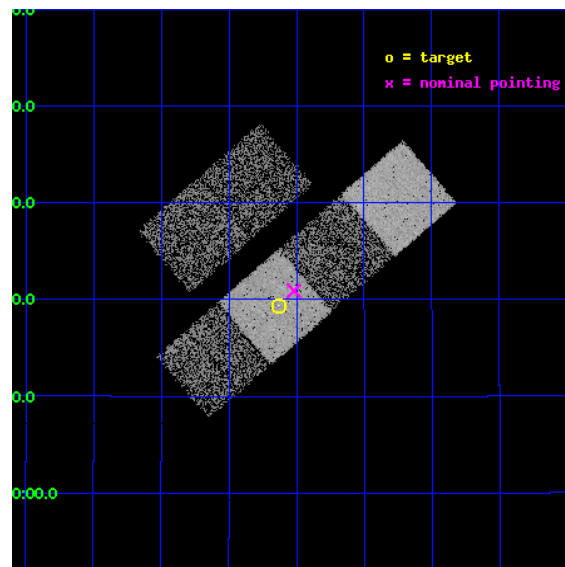
L2 Processing Date : Mar 28 2012

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# 1 Front

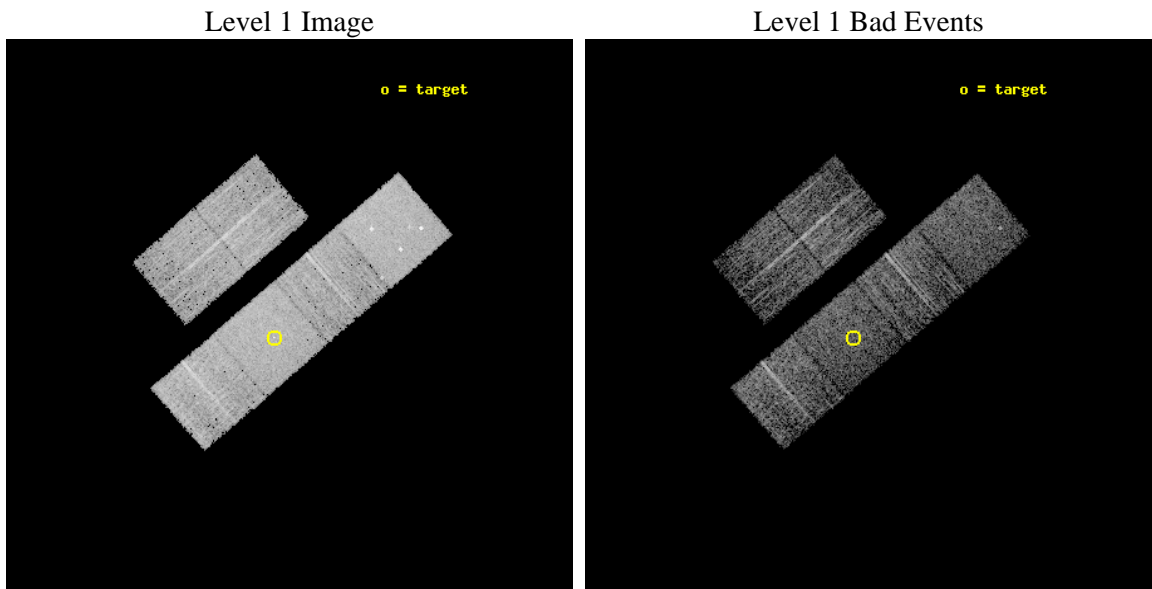
seq_num	600563	Sequence number
obs_id	7125	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 4561	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.03375	Observer's specified target RA [deg]
dec_targ	19.3225	Observer's specified target Dec [deg]
ra_nom	189.00487837405	Nominal RA [deg]
dec_nom	19.348349300741	Nominal Dec [deg]
roll_nom	139.16363499356	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3510.3999869227	Sum of GTIs [s]
livetime	3465.9491885792	Livetime [s]
ontime2	3510.3999869227	Sum of GTIs [s]
ontime3	3510.3999869227	Sum of GTIs [s]
ontime5	3510.3999869227	Sum of GTIs [s]
ontime6	3510.3999869227	Sum of GTIs [s]
ontime7	3510.3999869227	Sum of GTIs [s]
ontime8	3510.3999869227	Sum of GTIs [s]
l2events	48628	Number of level 2 events



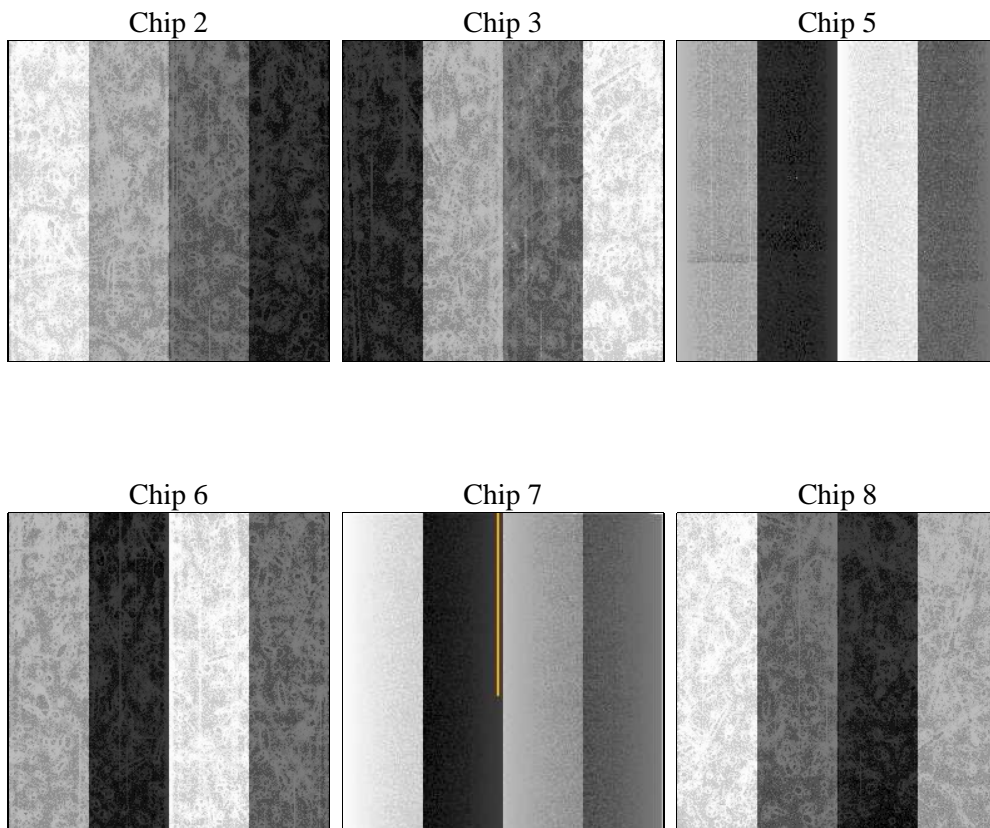
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3330.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	3510.3999869227	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	3510.3999869227	Sum of GTIs [s]
date	2012-03-28T03:15:55	Date and time of file creation	ontime3	3510.3999869227	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3510.3999869227	Sum of GTIs [s]
			ontime6	3510.3999869227	Sum of GTIs [s]
			ontime7	3510.3999869227	Sum of GTIs [s]
			ontime8	3510.3999869227	Sum of GTIs [s]
			l1events	281725	Number of level 1 events

### 2.1.4 Events

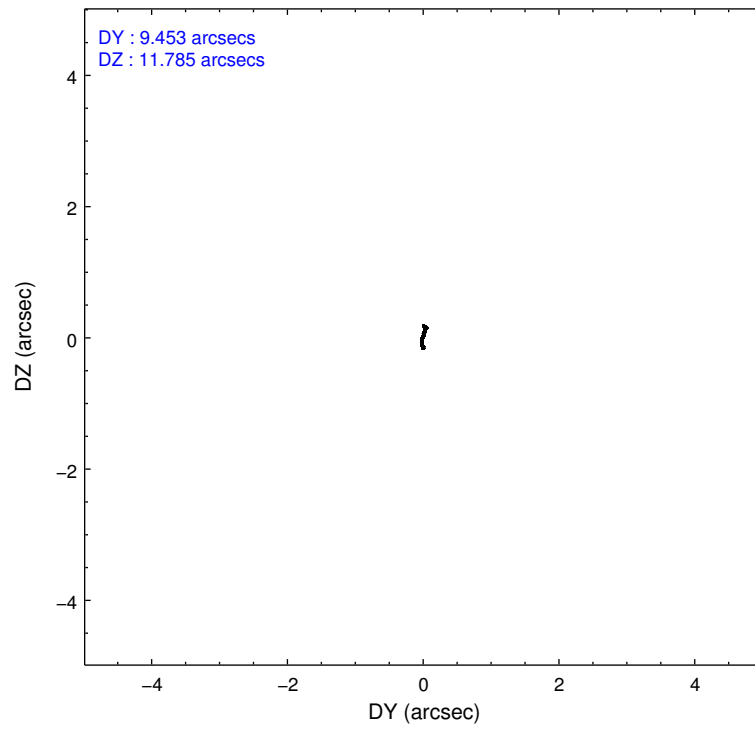
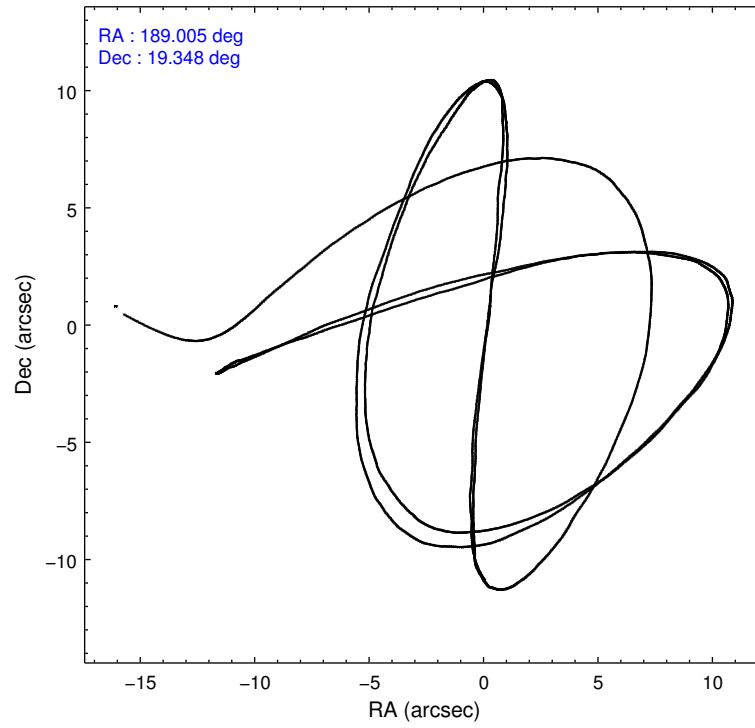
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40930	37554	59985	40600	52883	49773	grade 0 events	1996	1980	3316	1817	1966	3465
rejected events	37396	33983	38432	36989	36002	41190		4%	5%	5%	4%	3%	6%
rejected %	91%	90%	64%	91%	68%	82%	grade 1 events	13	22	94	21	54	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	979	836	8564	1033	4366	2354
								2%	2%	14%	2%	8%	4%
							grade 3 events	377	473	988	438	1886	1283
								0%	1%	1%	1%	3%	2%
							grade 4 events	437	446	931	423	1856	1132
								1%	1%	1%	1%	3%	2%
							grade 5 events	1509	1691	4316	1796	4957	2296
								3%	4%	7%	4%	9%	4%
							grade 6 events	740	861	14014	941	11668	2776
								1%	2%	23%	2%	22%	5%
							grade 7 events	34879	31245	27762	34131	26130	36430
								85%	83%	46%	84%	49%	73%

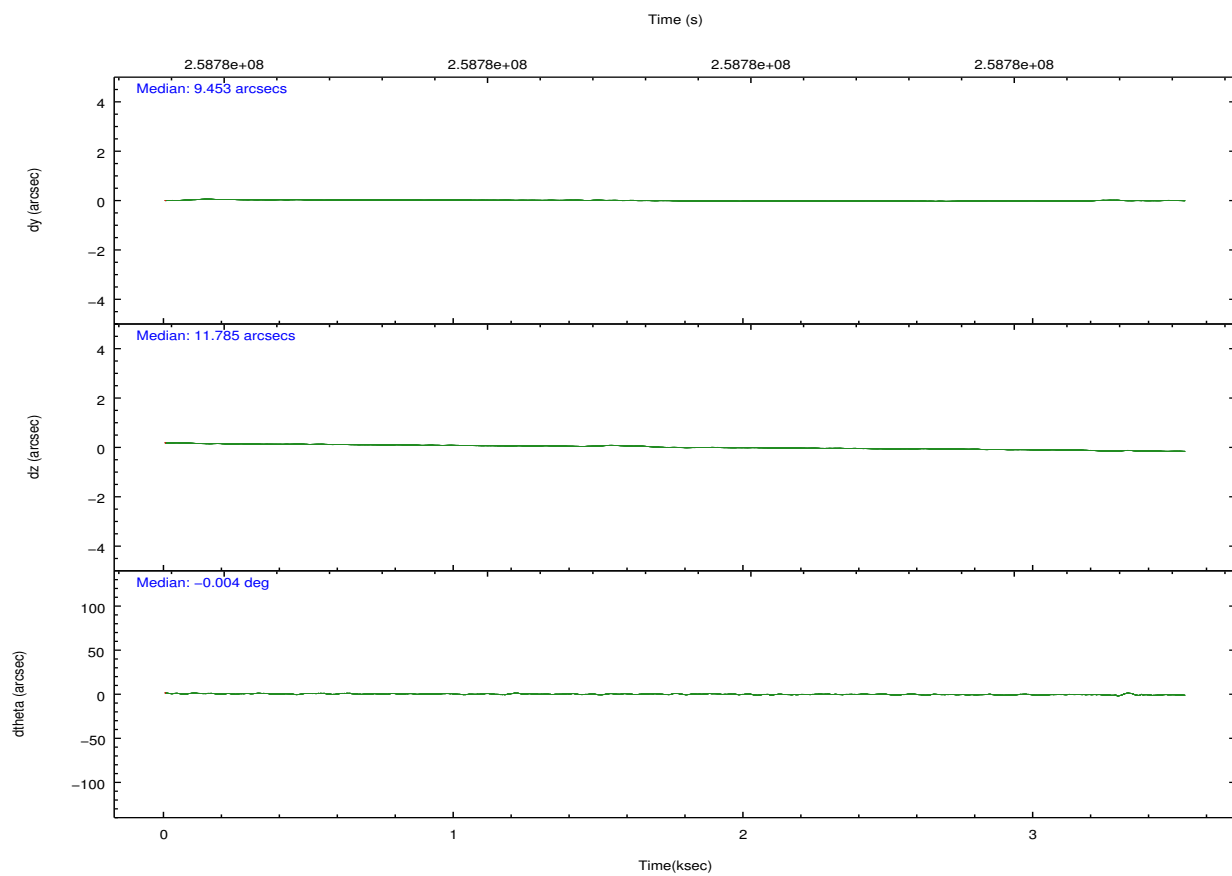
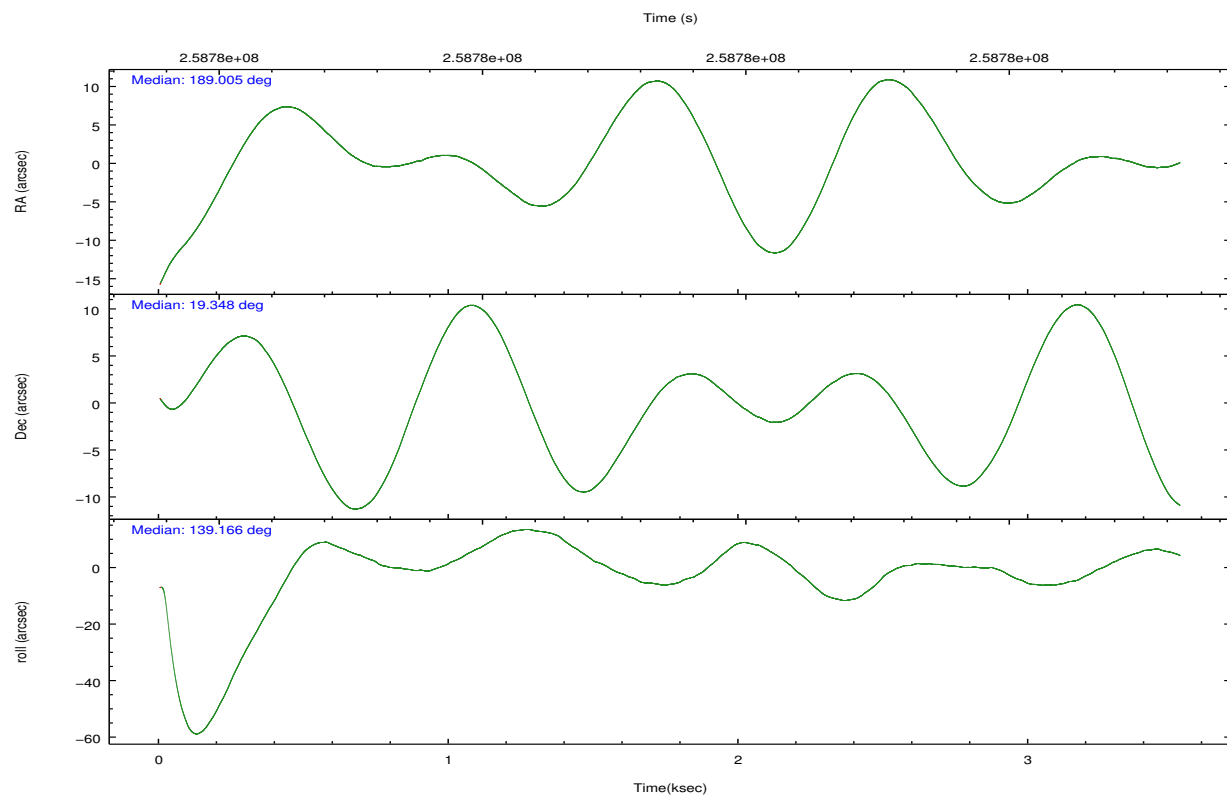


## 2.2 Compared Parameters

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	189.033448	189.0048783740513	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.343507	19.34834930074123	Alternating exposures requested	N	N
[deg] Pointing Roll	138.997349	139.1636349935646	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	258780148.184000	258778572.02169			
Observation start date	2006-03-15T03:21:23	2006-03-15T02:56:12			
[s] Observation end time (MET)	258783478.184000	258784907.03448			
Observation end date	2006-03-15T04:16:53	2006-03-15T04:41:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



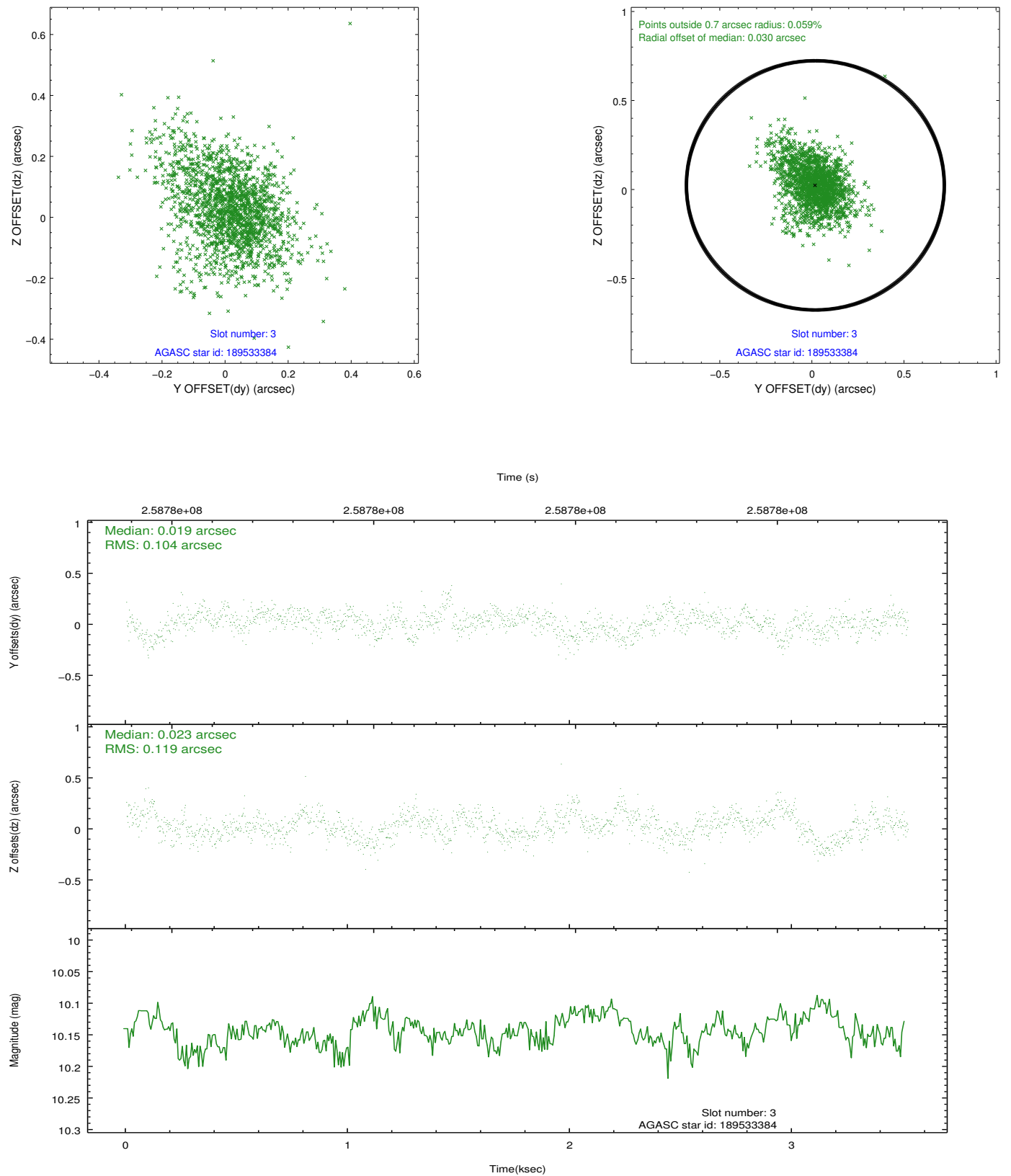


### Slot Statistics

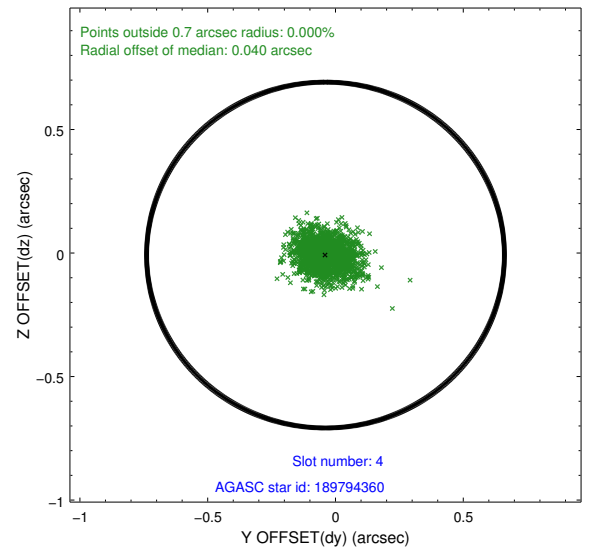
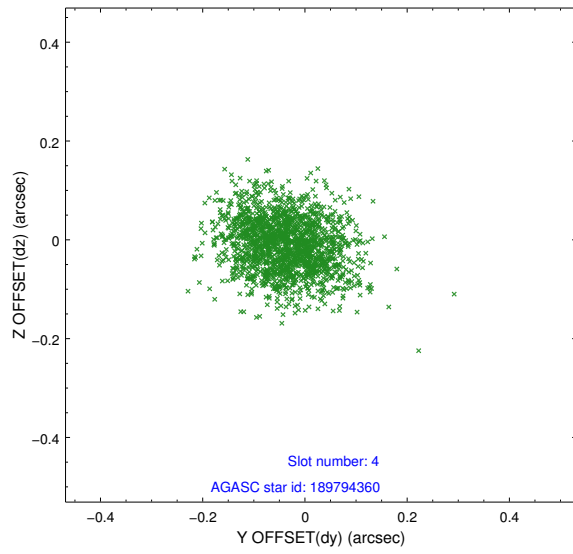
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	859	-0.028	-0.028	0.007	0.011	0.000000	0.000000	-762.30	-1733.07
1	FID	ACIS-S-4	7.21	859	0.142	0.021	0.005	0.010	0.000000	0.000000	2150.33	173.61
2	FID	ACIS-S-5	7.23	859	-0.145	0.015	0.007	0.012	0.000000	0.000000	-1812.96	169.31
3	GUIDE	189533384	10.14	1706	0.019	0.023	0.163	0.285	189.186797	18.598994	-2153.47	1679.43
4	GUIDE	189794360	9.20	1704	-0.039	-0.008	0.090	0.145	188.659104	19.426910	1155.92	607.56
5	GUIDE	189794888	9.60	1717	-0.023	-0.043	0.092	0.151	188.586174	19.619120	1797.70	245.47
6	GUIDE	189795048	9.57	1718	0.015	0.097	0.115	0.192	189.176149	19.439954	-136.56	-579.56
7	GUIDE	189795240	8.86	1717	0.036	-0.071	0.064	0.103	189.463954	18.896885	-2160.39	249.72

## 2.4 Star Slots

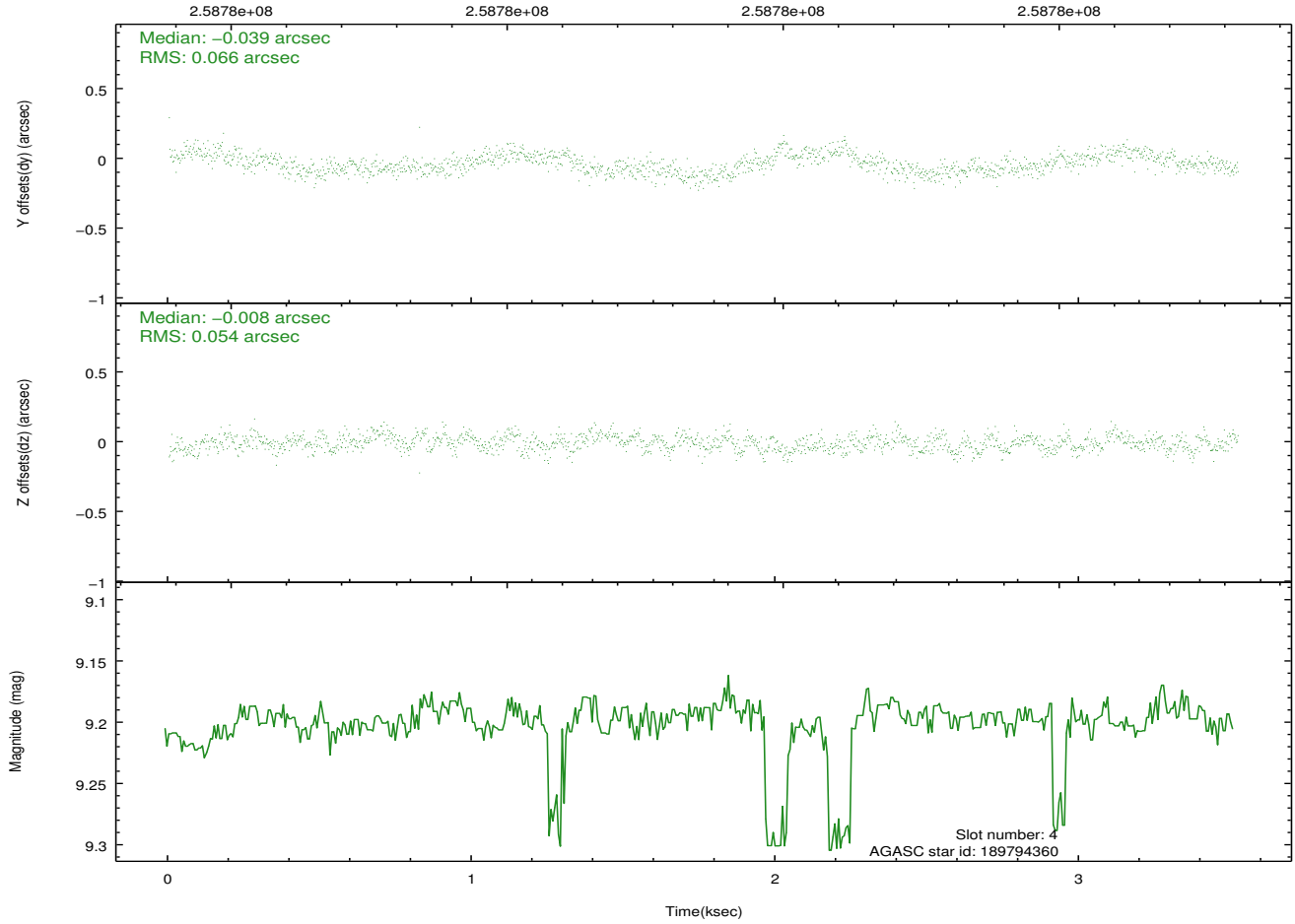
### 2.4.1 Slot 3



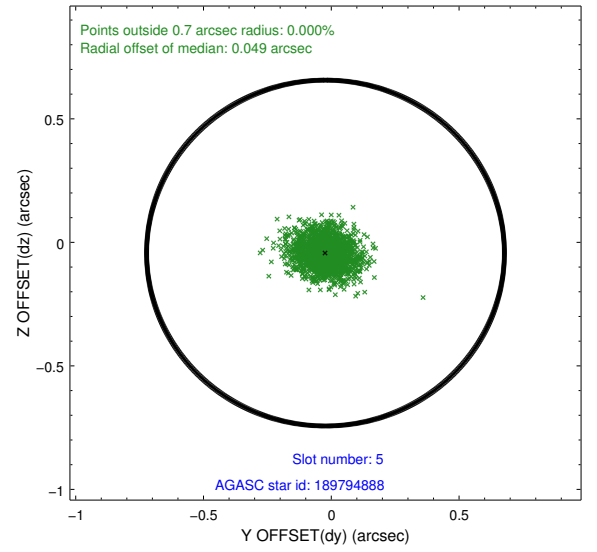
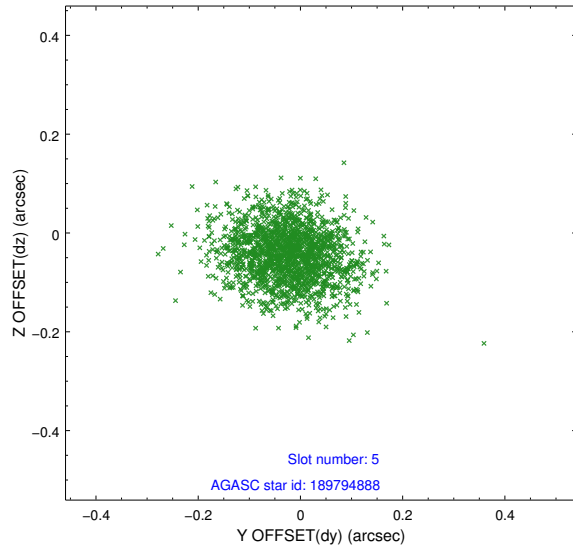
## 2.4.2 Slot 4



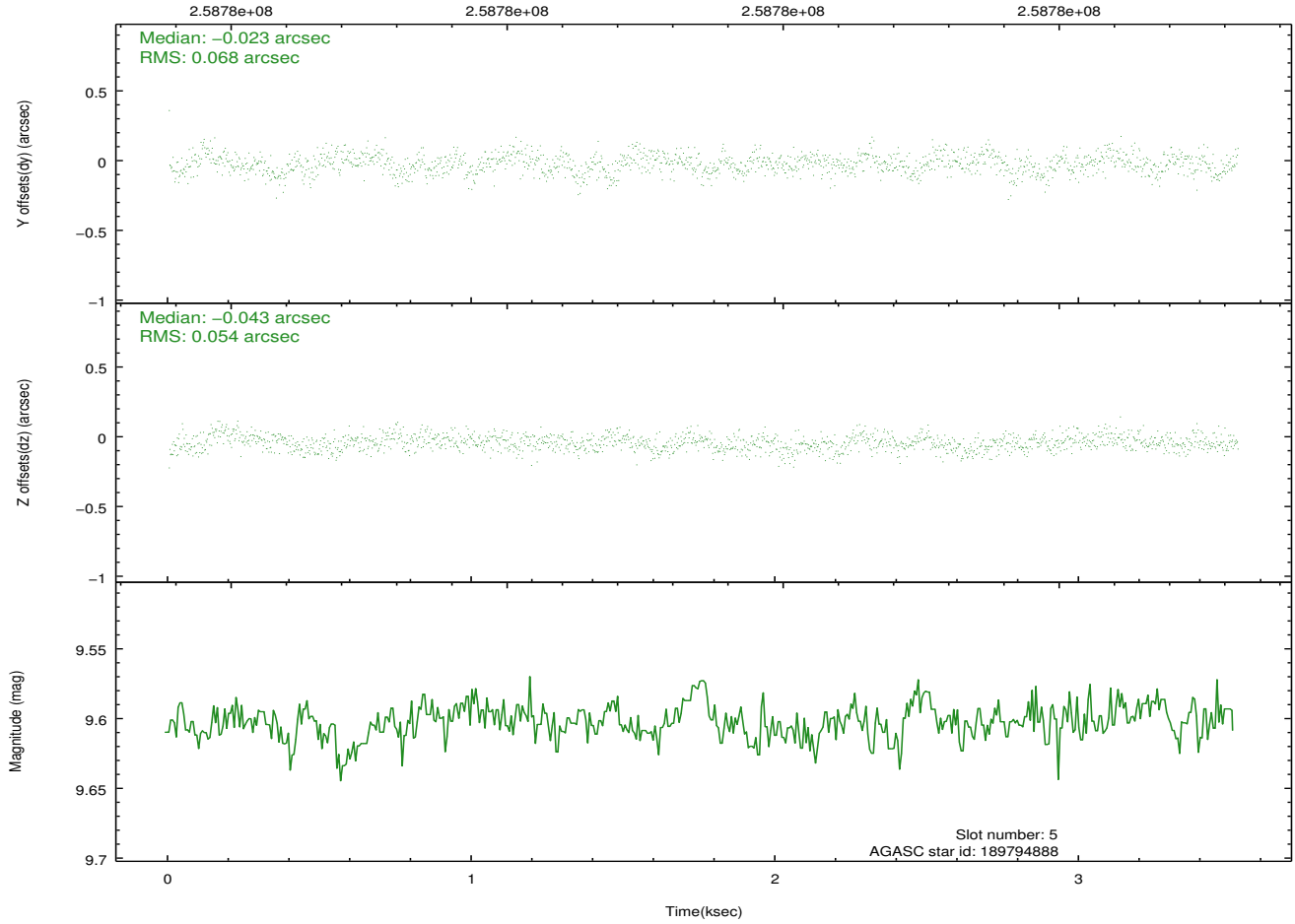
Time (s)



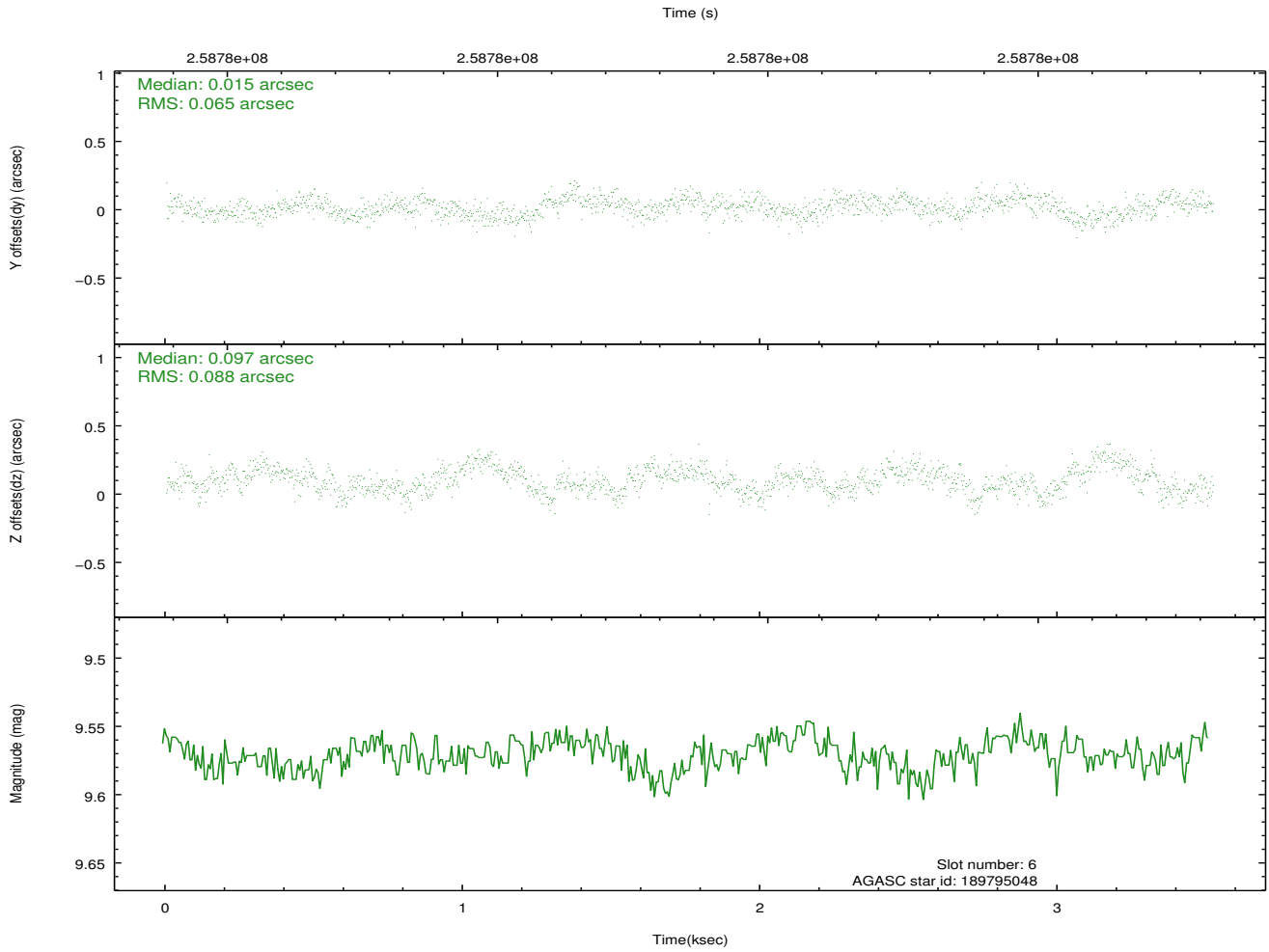
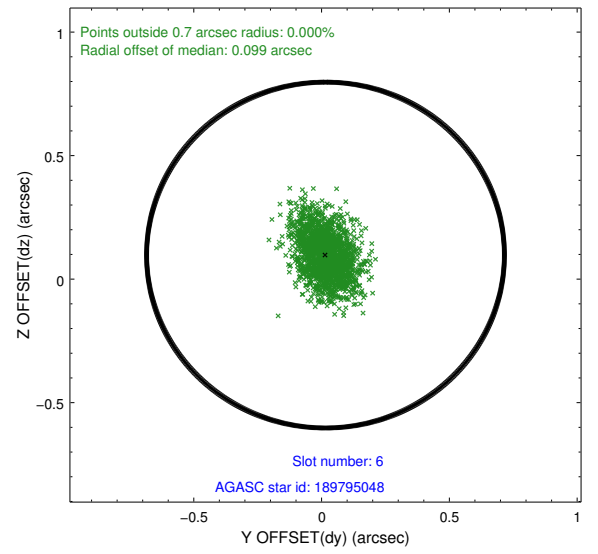
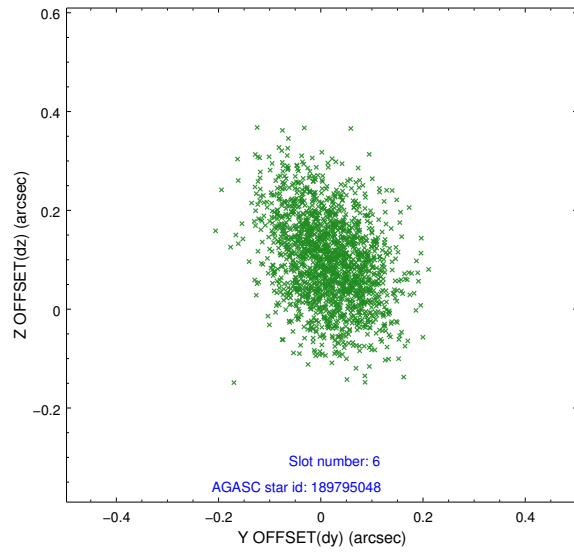
### 2.4.3 Slot 5



Time (s)

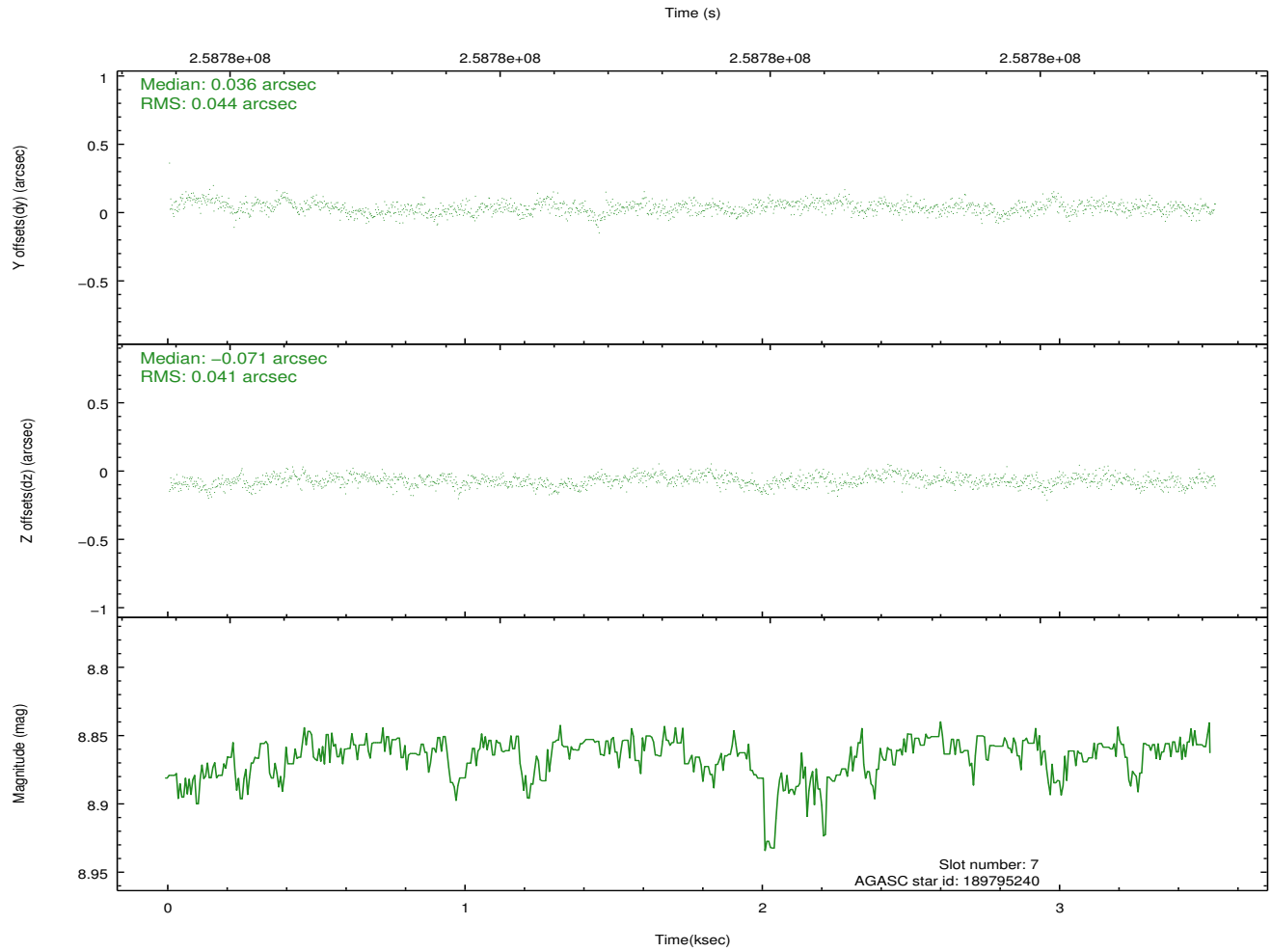
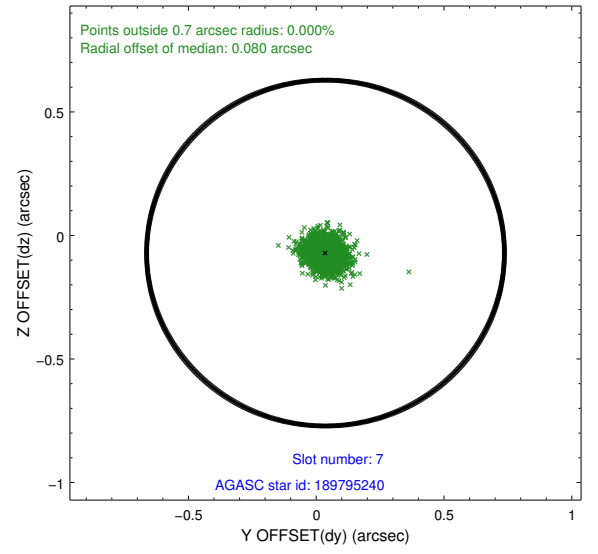
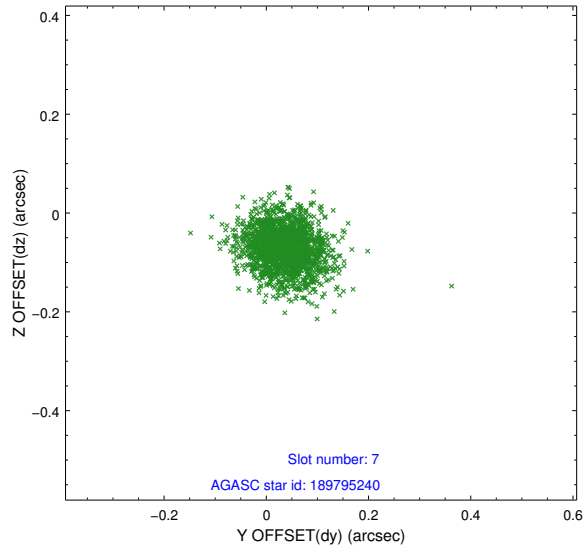


## 2.4.4 Slot 6



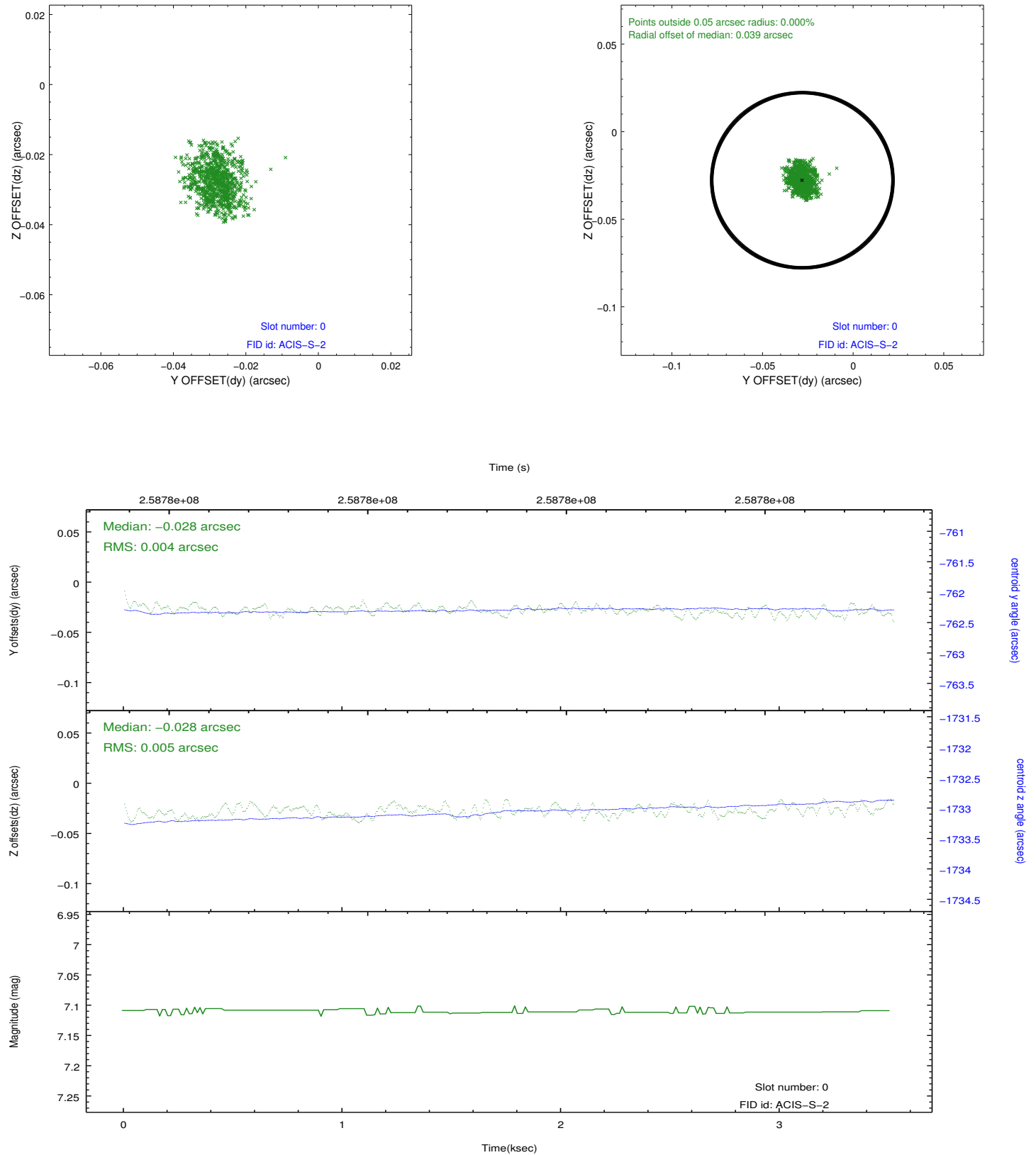


## 2.4.5 Slot 7

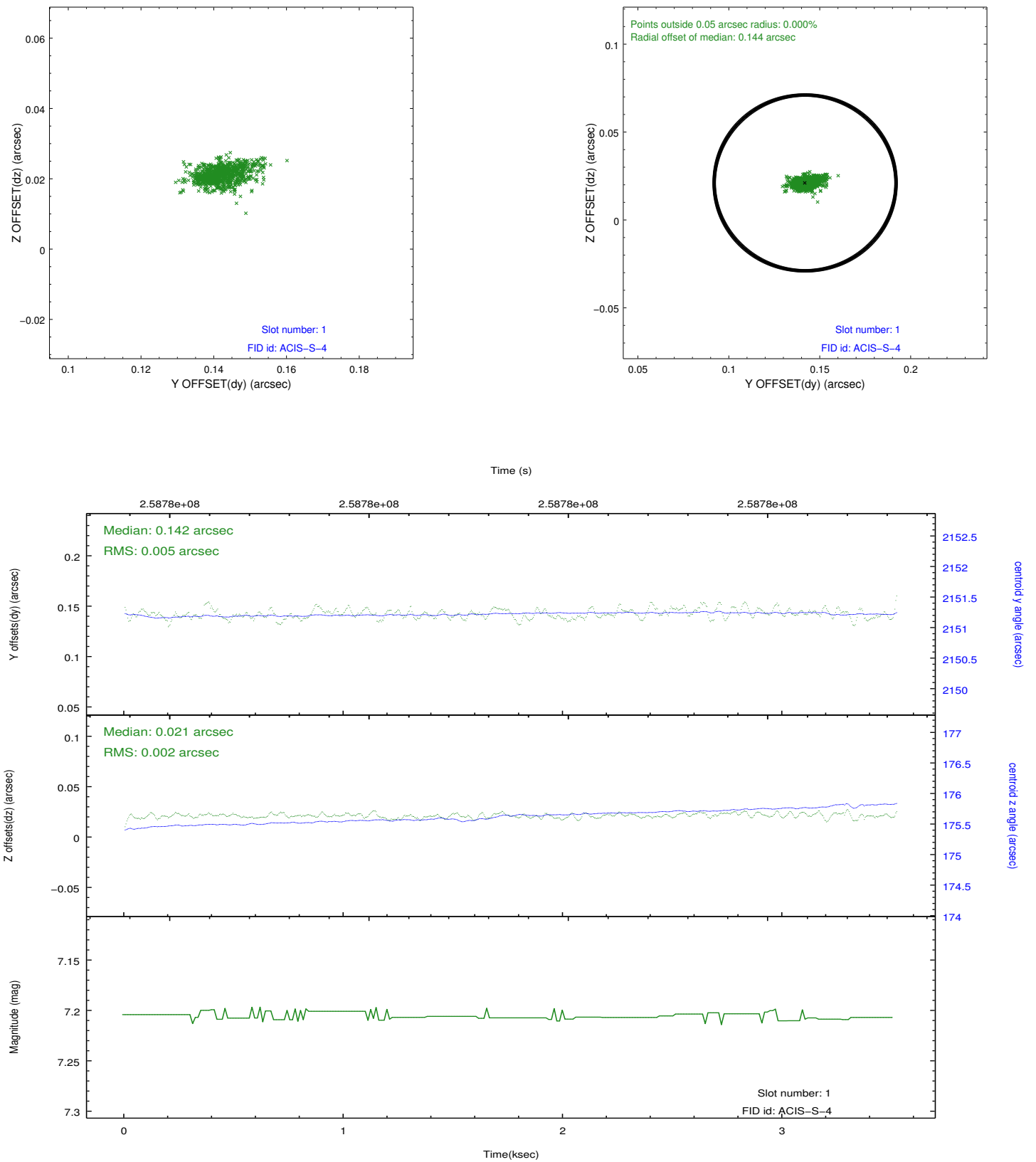


## 2.5 FID Slots

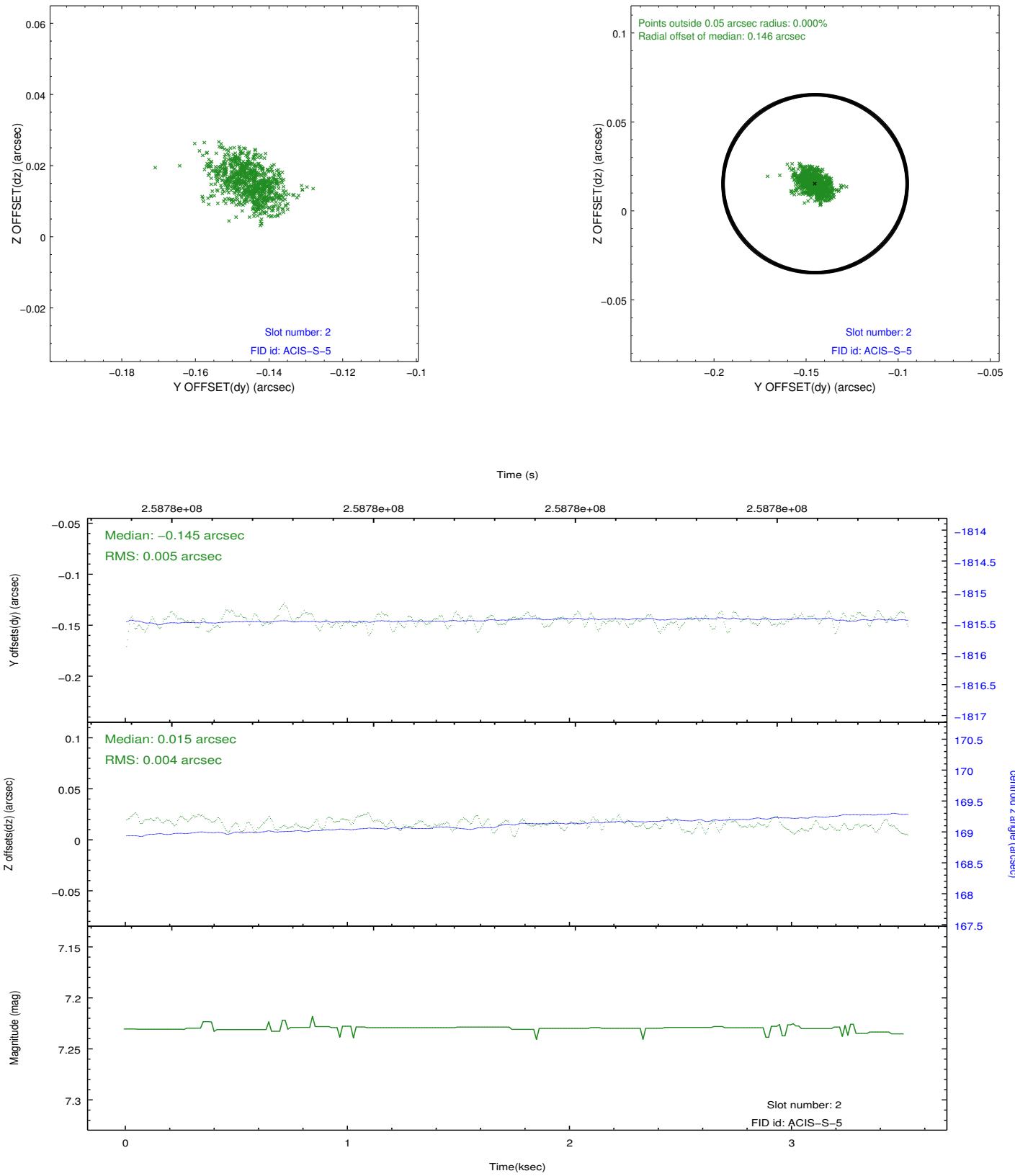
### 2.5.1 Slot 0



## 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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.51039998

### A.2 Comments