

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12710 - L2 Version 2  
Chandra X-Ray Center

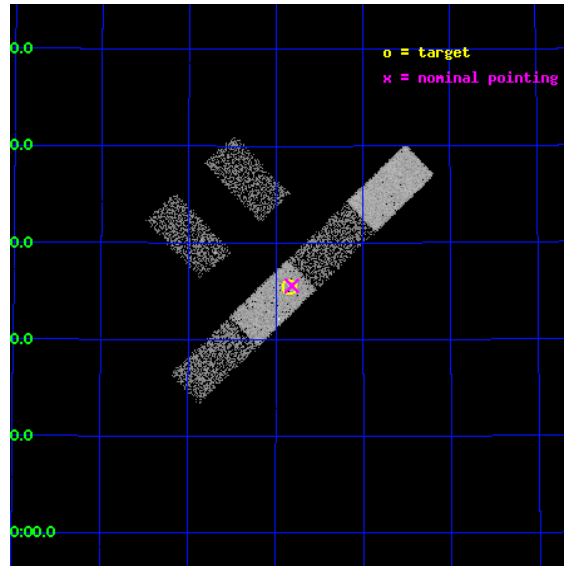
L2 Processing Date : Jul 8 2012

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# 1 Front

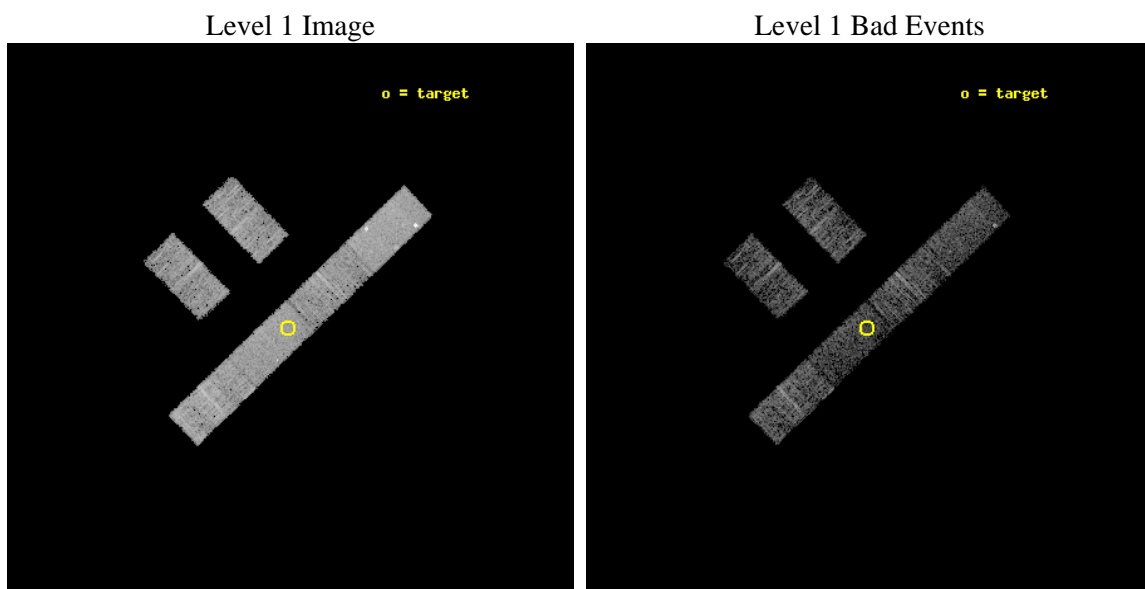
seq_num	702346	Sequence number
obs_id	12710	Observation id
title	The Nature of Weak-Line Quasars at Low Redshift	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0812+5225	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.211667	Observer's specified target RA [deg]
dec_targ	52.425222	Observer's specified target Dec [deg]
ra_nom	123.20373869731	Nominal RA [deg]
dec_nom	52.426319868457	Nominal Dec [deg]
roll_nom	136.05109826105	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4197.60002774	Sum of GTIs [s]
liveltime	4104.0281851193	Livetime [s]
ontime2	4197.60002774	Sum of GTIs [s]
ontime3	4197.60002774	Sum of GTIs [s]
ontime5	4197.60002774	Sum of GTIs [s]
ontime6	4195.7590175867	Sum of GTIs [s]
ontime7	4197.60002774	Sum of GTIs [s]
ontime8	4197.60002774	Sum of GTIs [s]
l2events	25284	Number of level 2 events



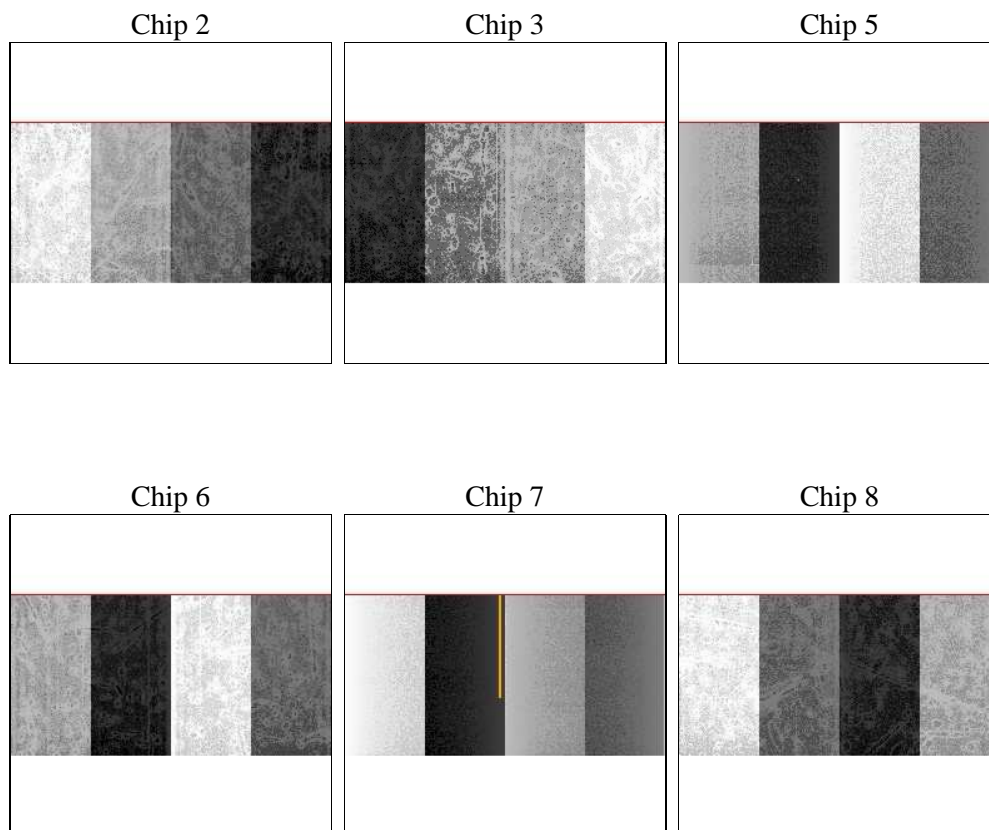
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4197.60002774	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	4197.60002774	Sum of GTIs [s]
date	2012-07-08T20:39:54	Date and time of file creation	ontime3	4197.60002774	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4197.60002774	Sum of GTIs [s]
			ontime6	4195.7590175867	Sum of GTIs [s]
			ontime7	4197.60002774	Sum of GTIs [s]
			ontime8	4197.60002774	Sum of GTIs [s]
			l1events	111103	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	15583	14101	25043	15589	18515	22272
rejected events	13855	12541	11754	13720	9869	16500
rejected %	88%	88%	46%	88%	53%	74%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	543	560	2254	629	938	1586
	3%	3%	9%	4%	5%	7%
grade 1 events	5	10	52	6	18	19
	0%	0%	0%	0%	0%	0%
grade 2 events	399	317	4177	396	1811	1431
	2%	2%	16%	2%	9%	6%
grade 3 events	218	206	550	220	888	552
	1%	1%	2%	1%	4%	2%
grade 4 events	220	188	507	241	878	578
	1%	1%	2%	1%	4%	2%
grade 5 events	601	642	1883	723	2006	1022
	3%	4%	7%	4%	10%	4%
grade 6 events	348	290	5814	385	4136	1626
	2%	2%	23%	2%	22%	7%
grade 7 events	13249	11888	9806	12989	7840	15458
	85%	84%	39%	83%	42%	69%

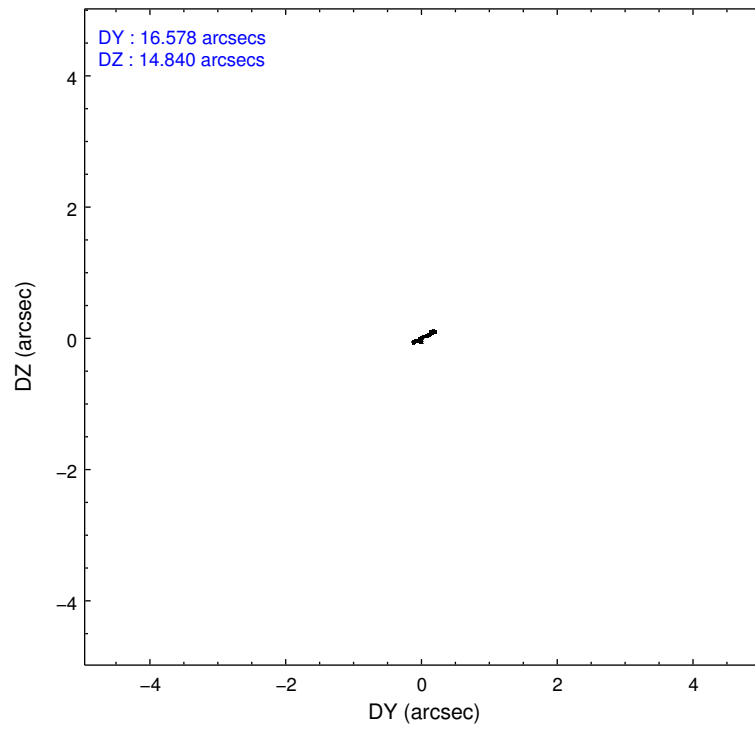
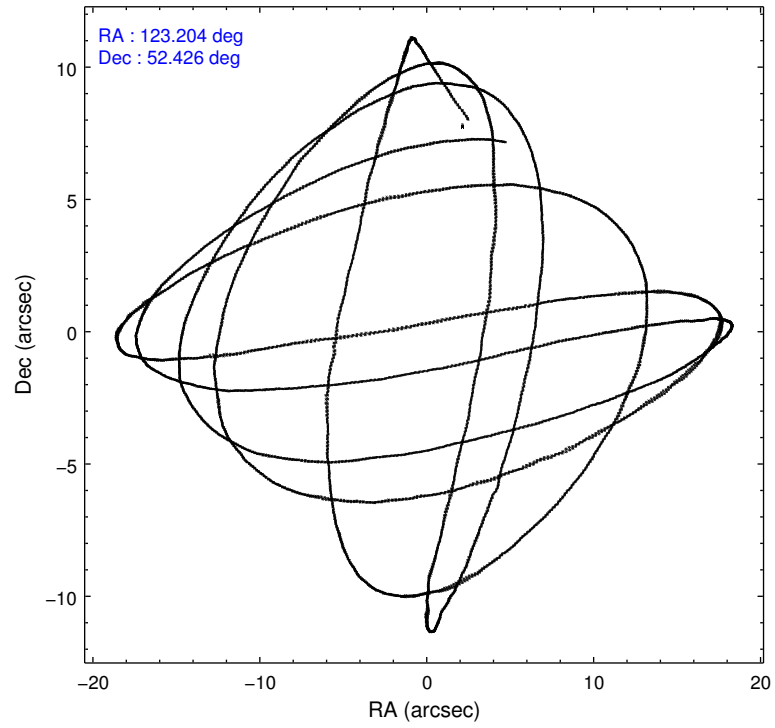


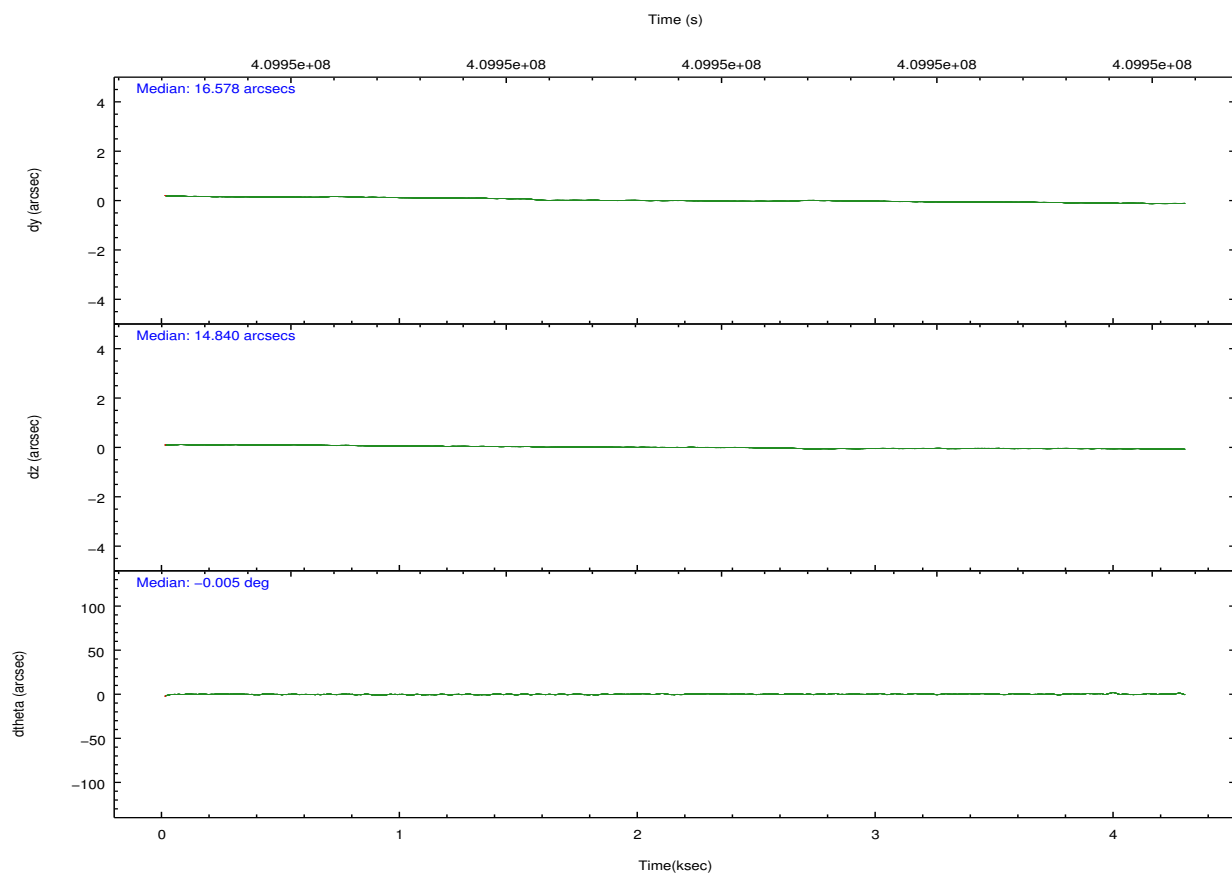
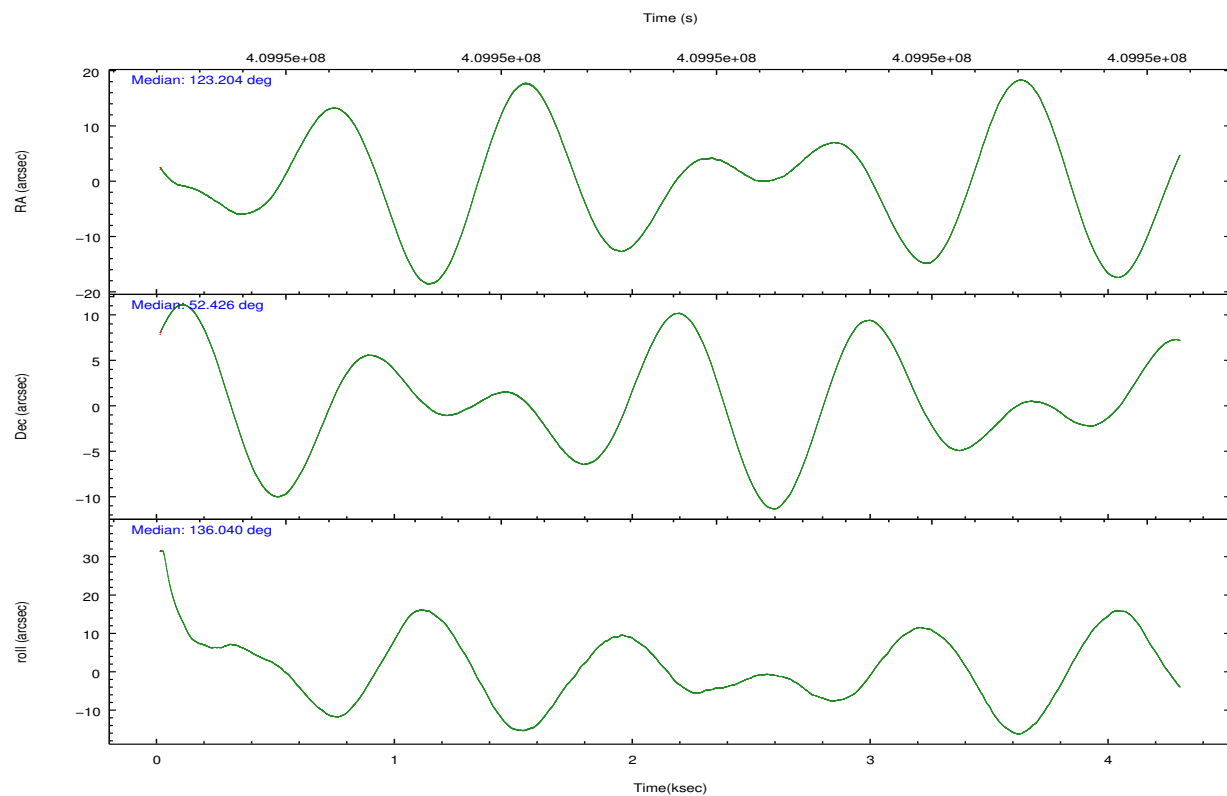
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	123.247545	123.2037386973113
[deg] Pointing Dec	52.420008	52.42631986845664
[deg] Pointing Roll	135.859686	136.0510982610497
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	409948843.184000	409947545.15814
Observation start date	2010-12-28T18:39:37	2010-12-28T18:19:05
[s] Observation end time (MET)	409952943.184000	409953682.85846
Observation end date	2010-12-28T19:47:57	2010-12-28T20:01:22
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O2	Y
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	O3	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
Subarray start row	257	257
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.8

## 2.3 Aspect



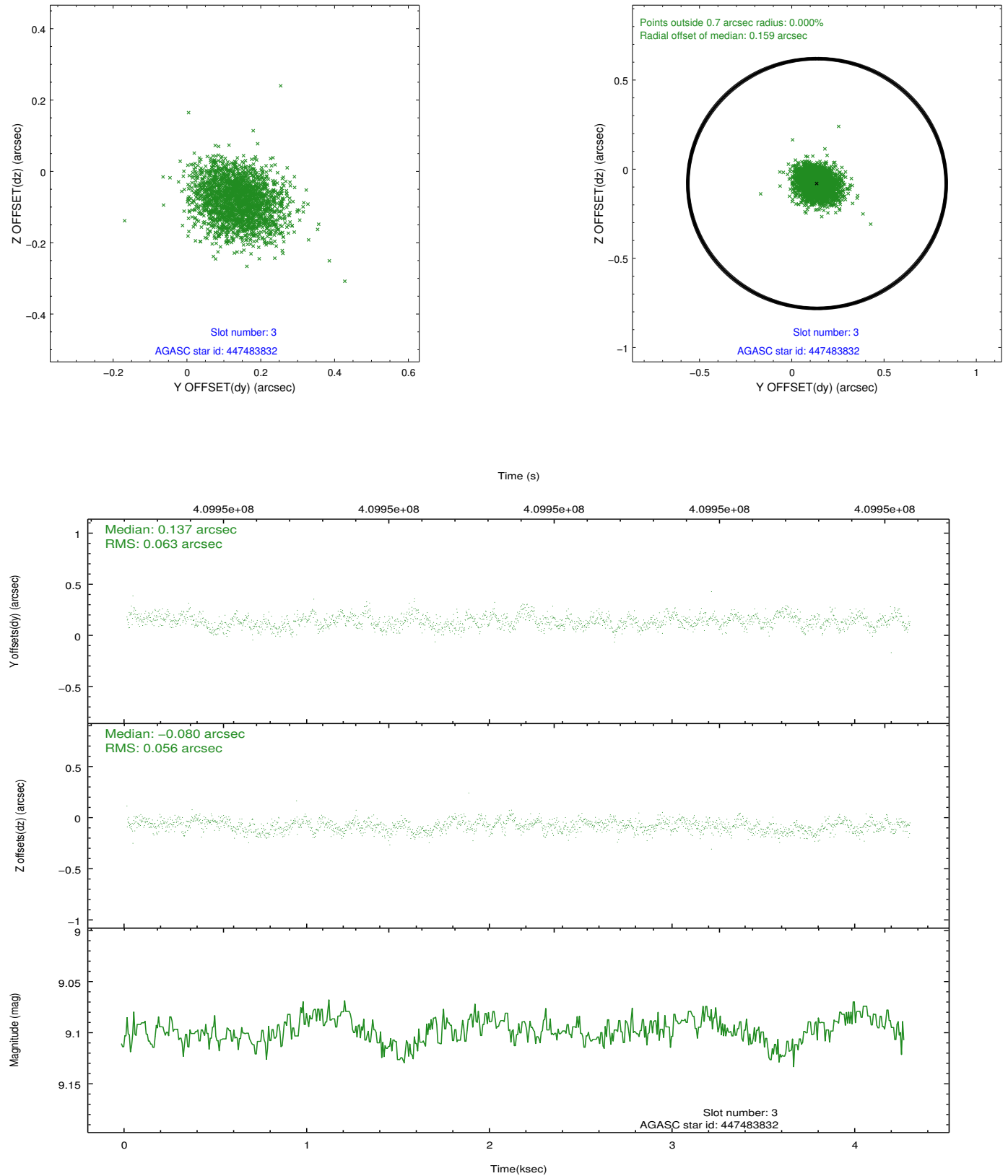


### Slot Statistics

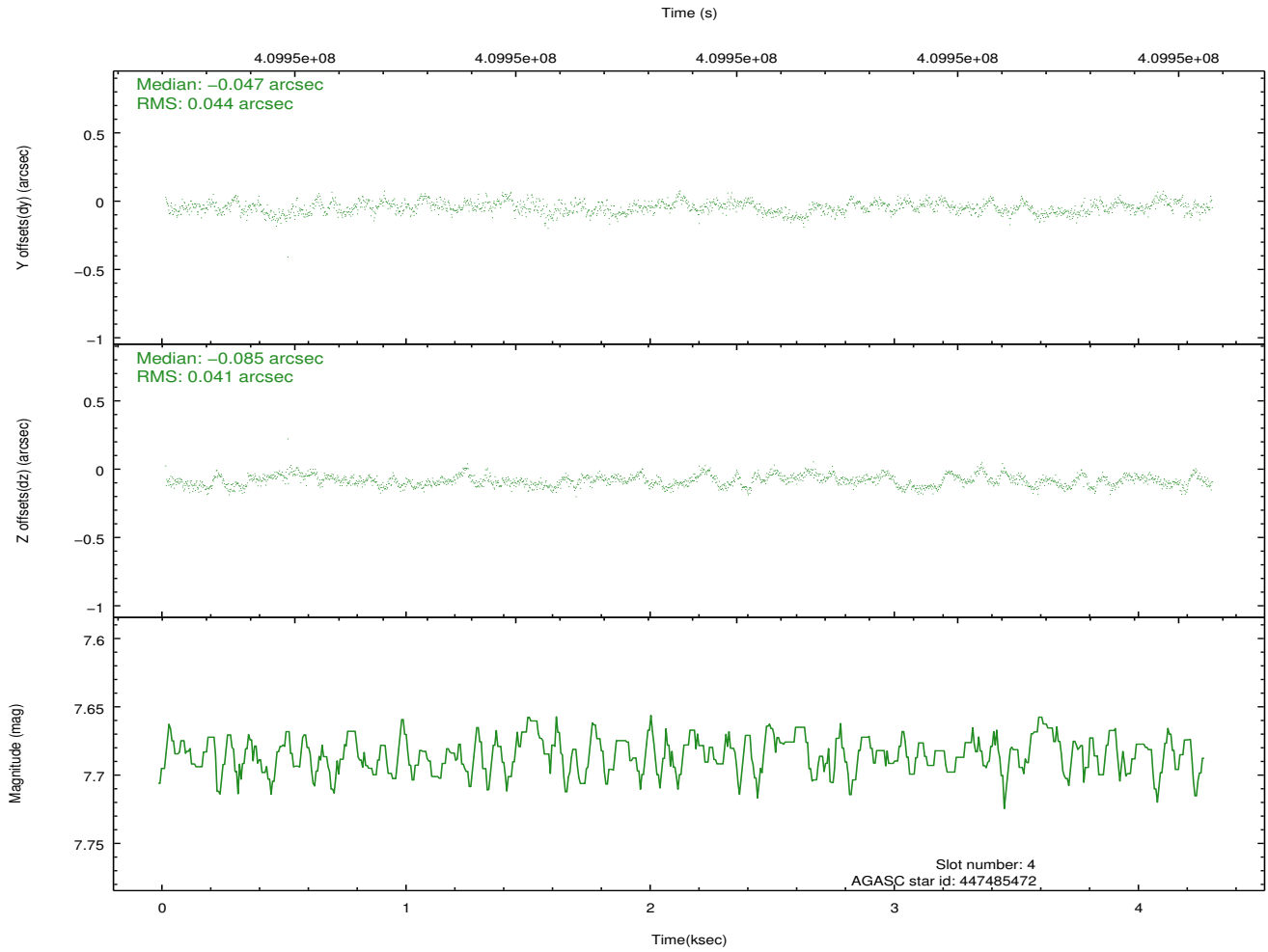
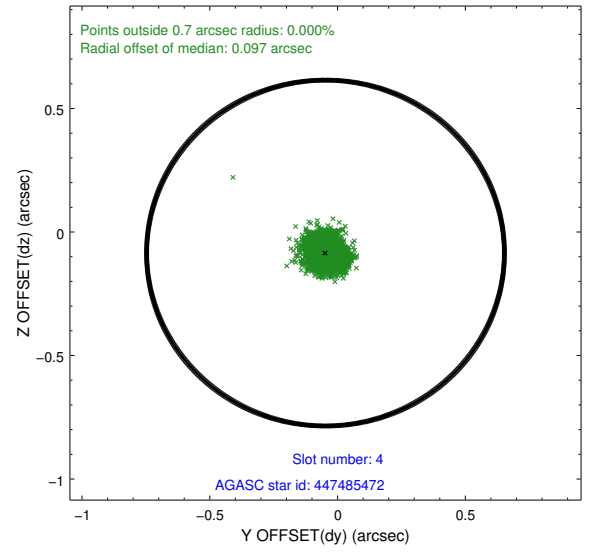
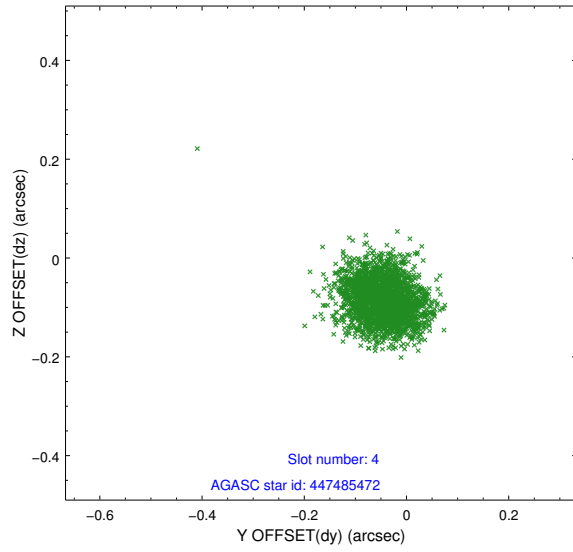
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1046	-0.106	-0.046	0.007	0.011	0.000000	0.000000	-769.70	-1736.27
1	FID	ACIS-S-4	6.98	1046	0.222	0.063	0.006	0.011	0.000000	0.000000	2143.22	170.84
2	FID	ACIS-S-5	7.01	1046	-0.146	-0.009	0.007	0.012	0.000000	0.000000	-1820.75	166.05
3	GUIDE	447483832	9.10	2088	0.137	-0.080	0.089	0.142	123.355075	51.764919	-1814.61	1525.46
4	GUIDE	447485472	7.68	2091	-0.047	-0.085	0.063	0.100	122.828208	52.028768	-313.94	1656.67
5	GUIDE	447486264	8.98	2092	-0.015	-0.106	0.086	0.140	123.696519	52.094919	-1526.21	146.96
6	GUIDE	448413472	7.39	2092	-0.060	0.127	0.061	0.093	124.060486	52.342270	-1471.85	-1051.23
7	GUIDE	497551640	8.96	2074	-0.018	0.146	0.099	0.156	123.724845	52.943903	572.54	-2077.38

## 2.4 Star Slots

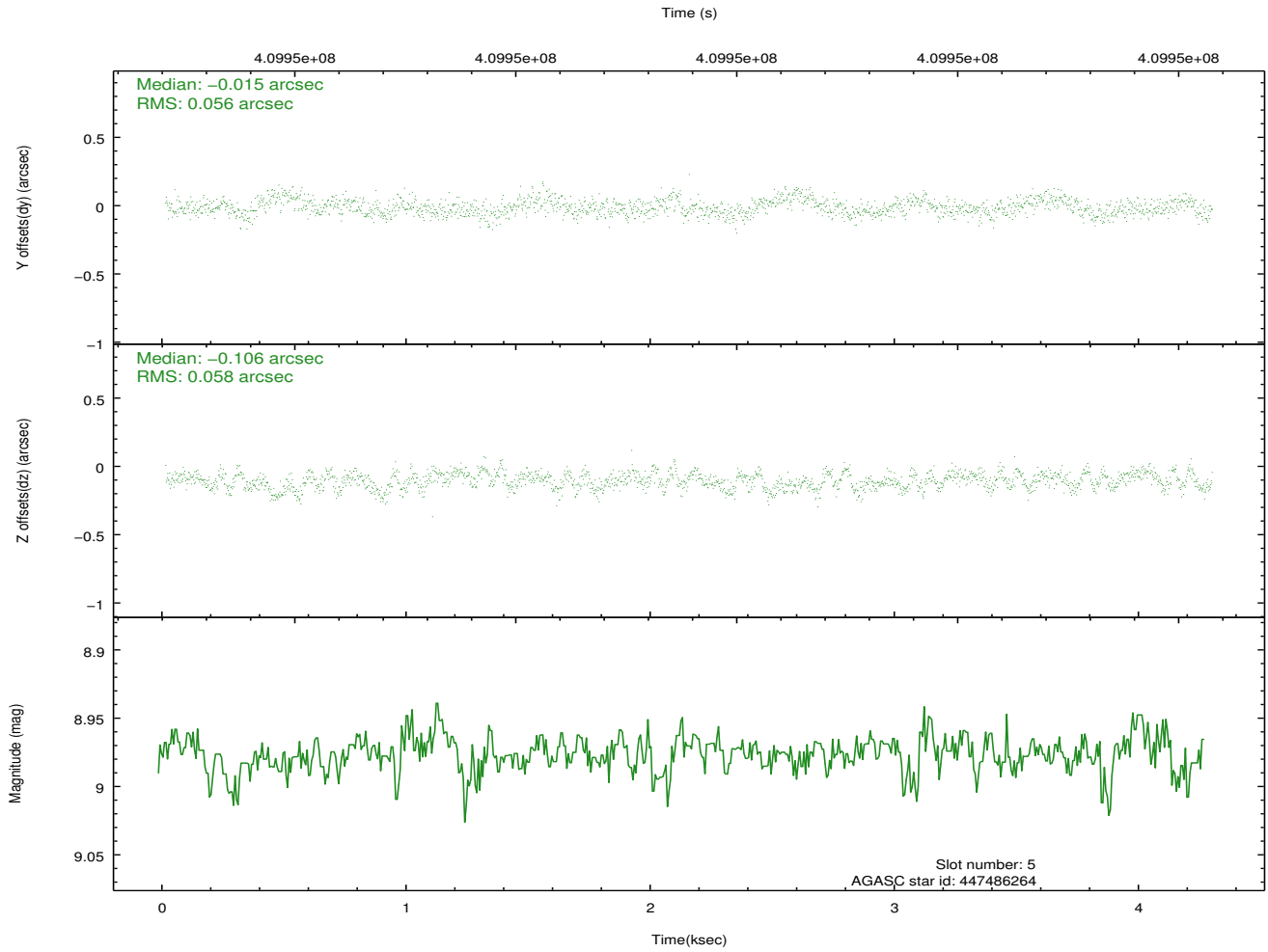
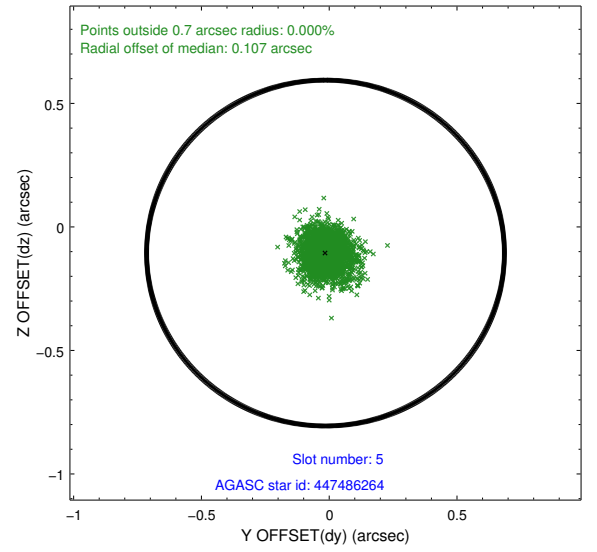
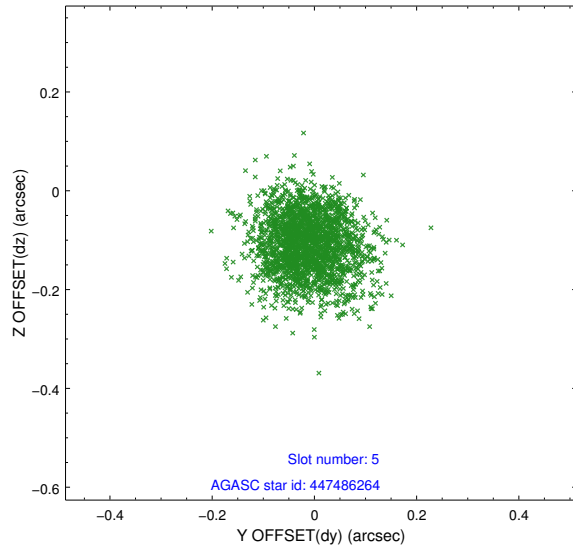
### 2.4.1 Slot 3



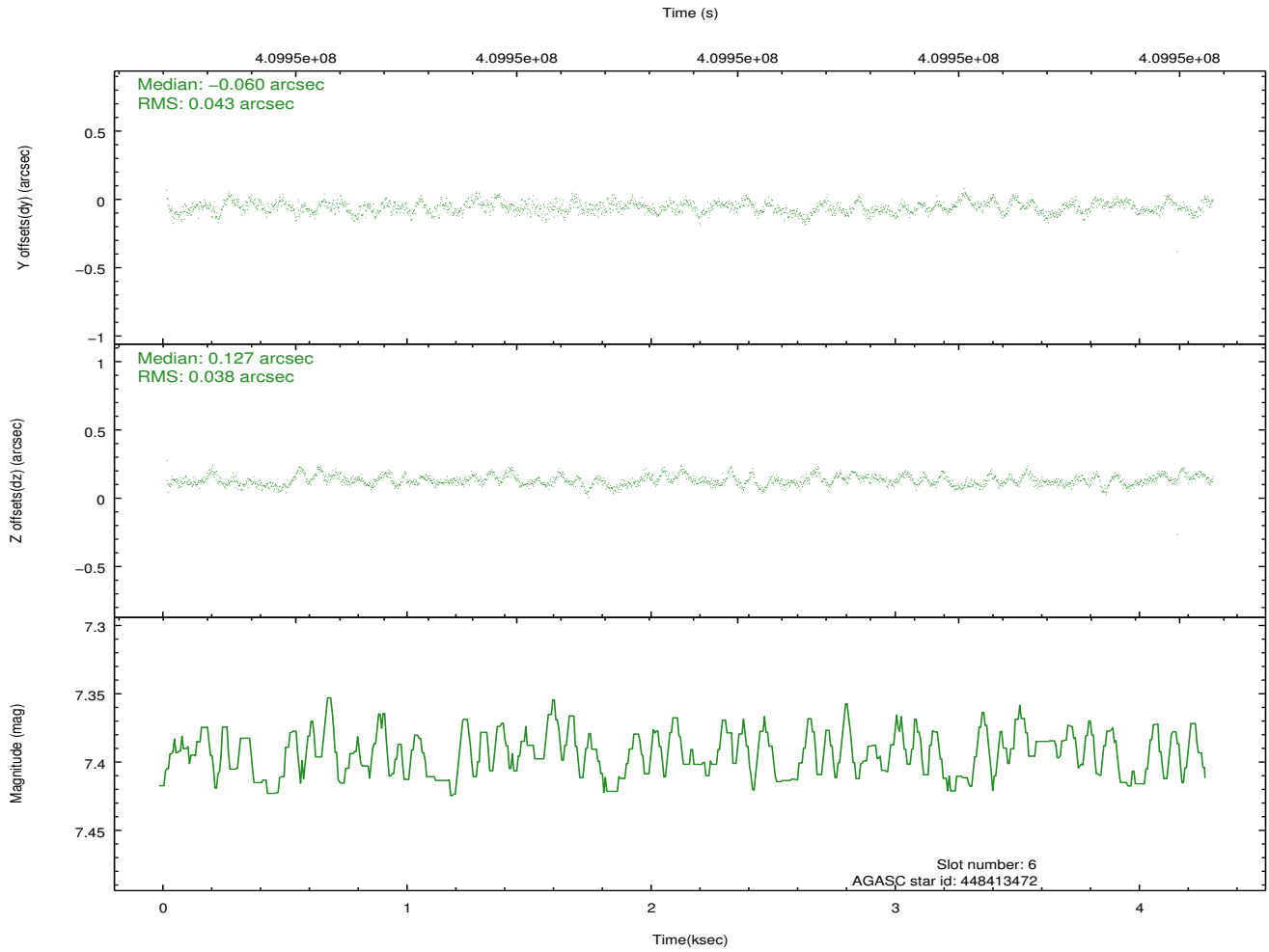
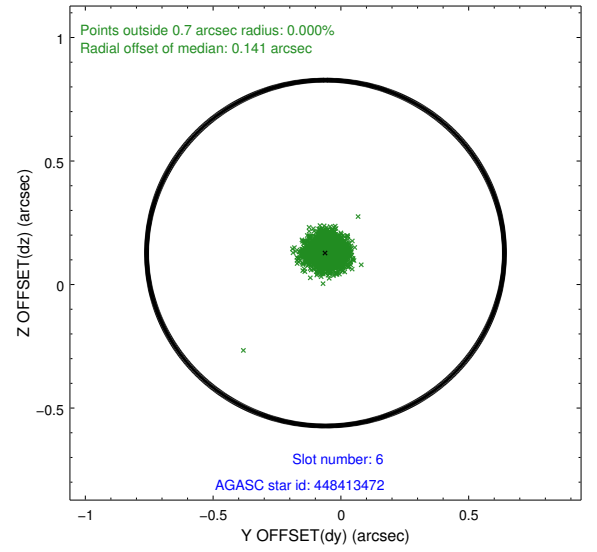
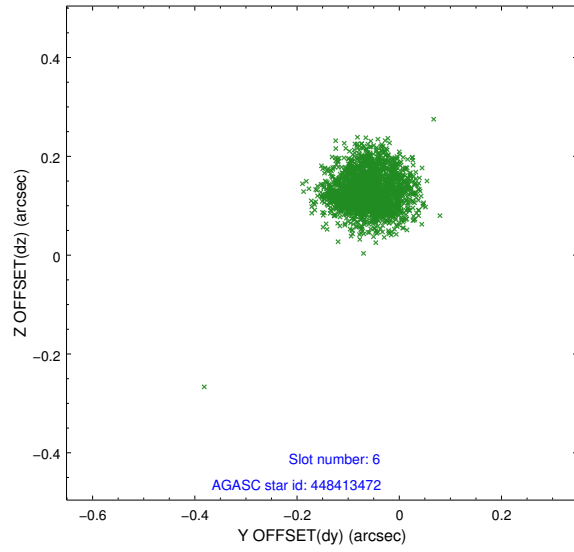
## 2.4.2 Slot 4



### 2.4.3 Slot 5

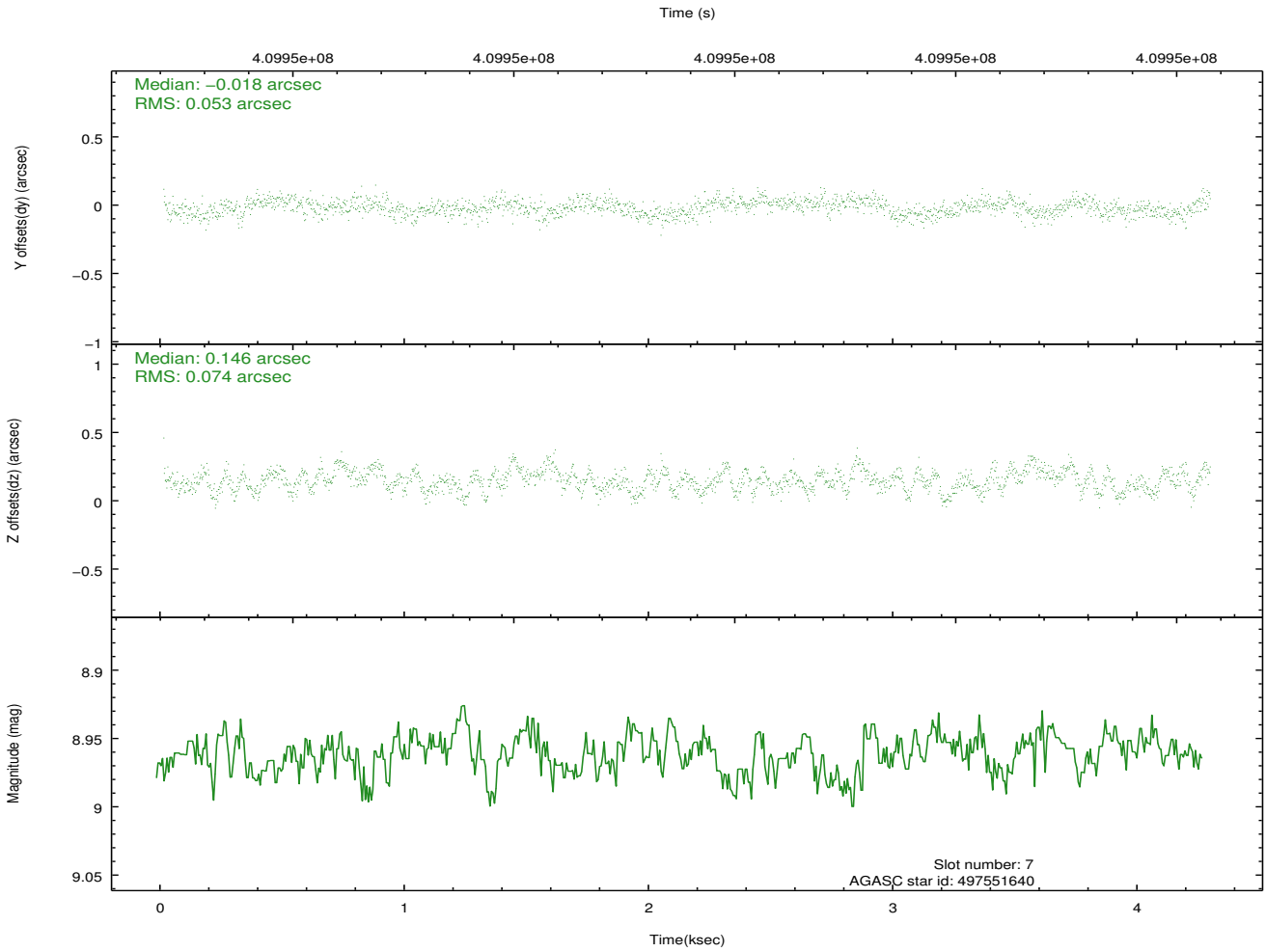
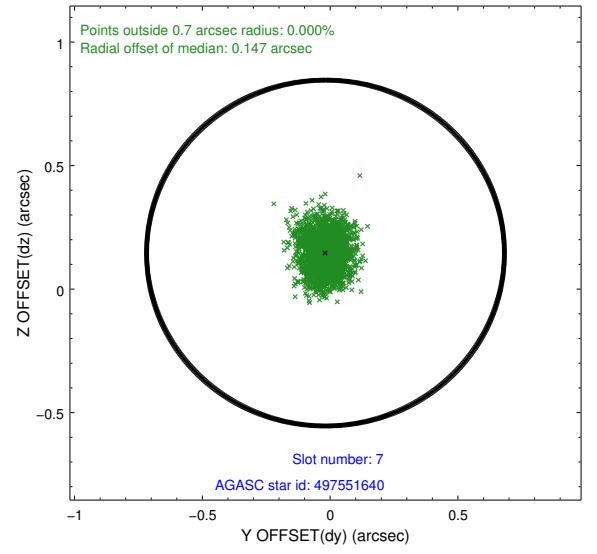
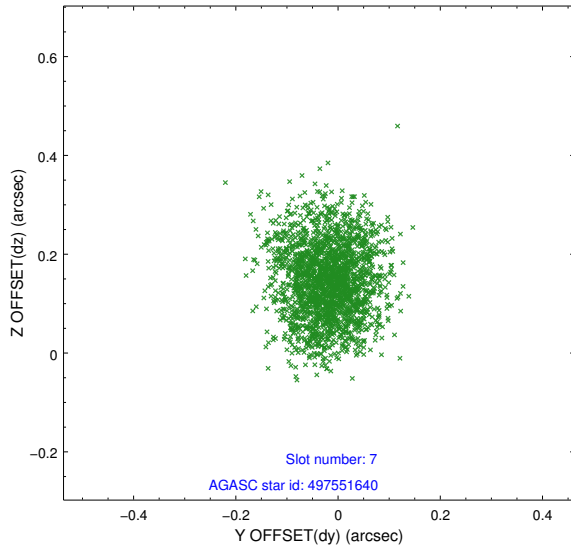


## 2.4.4 Slot 6



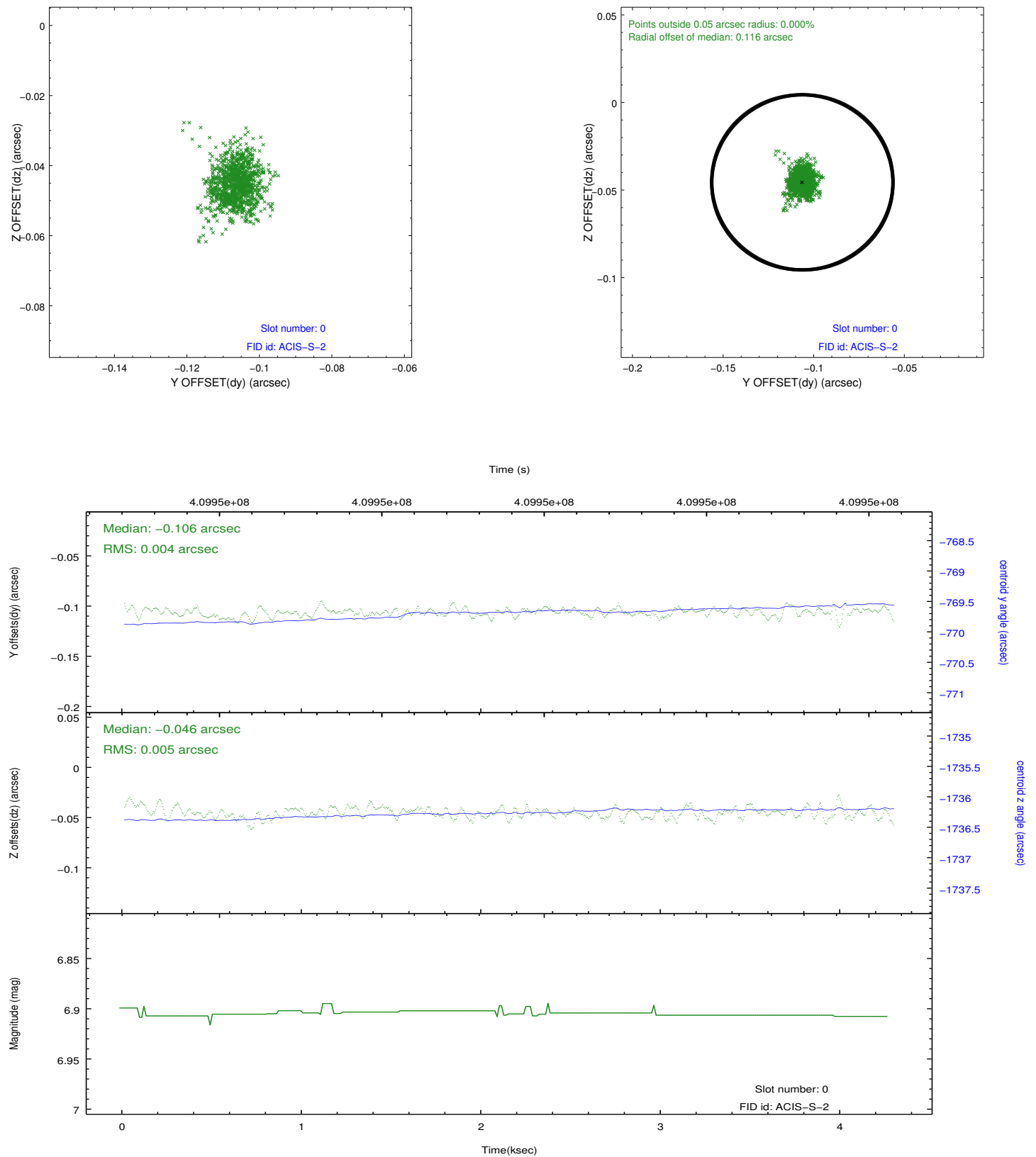


## 2.4.5 Slot 7

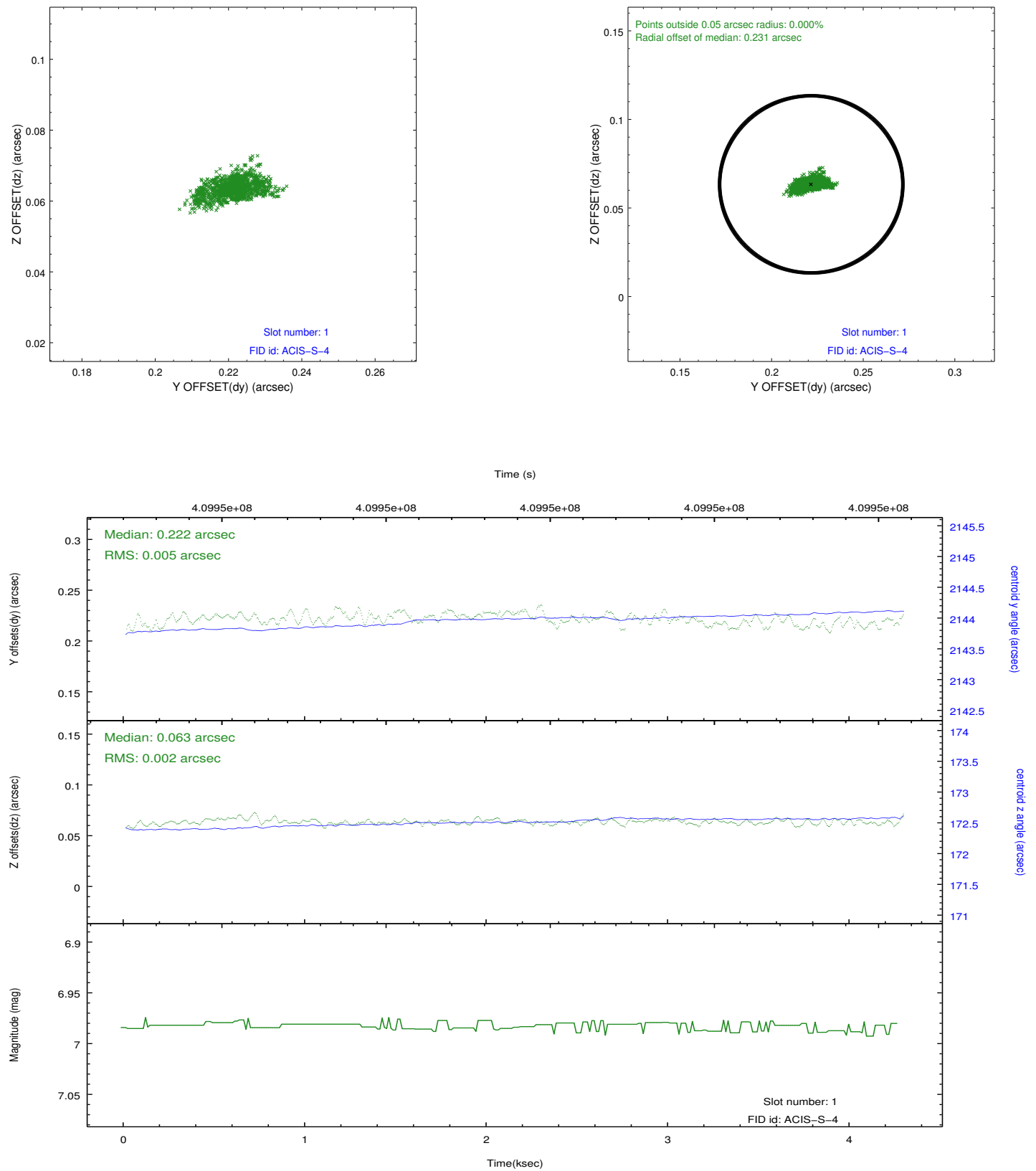


## 2.5 FID Slots

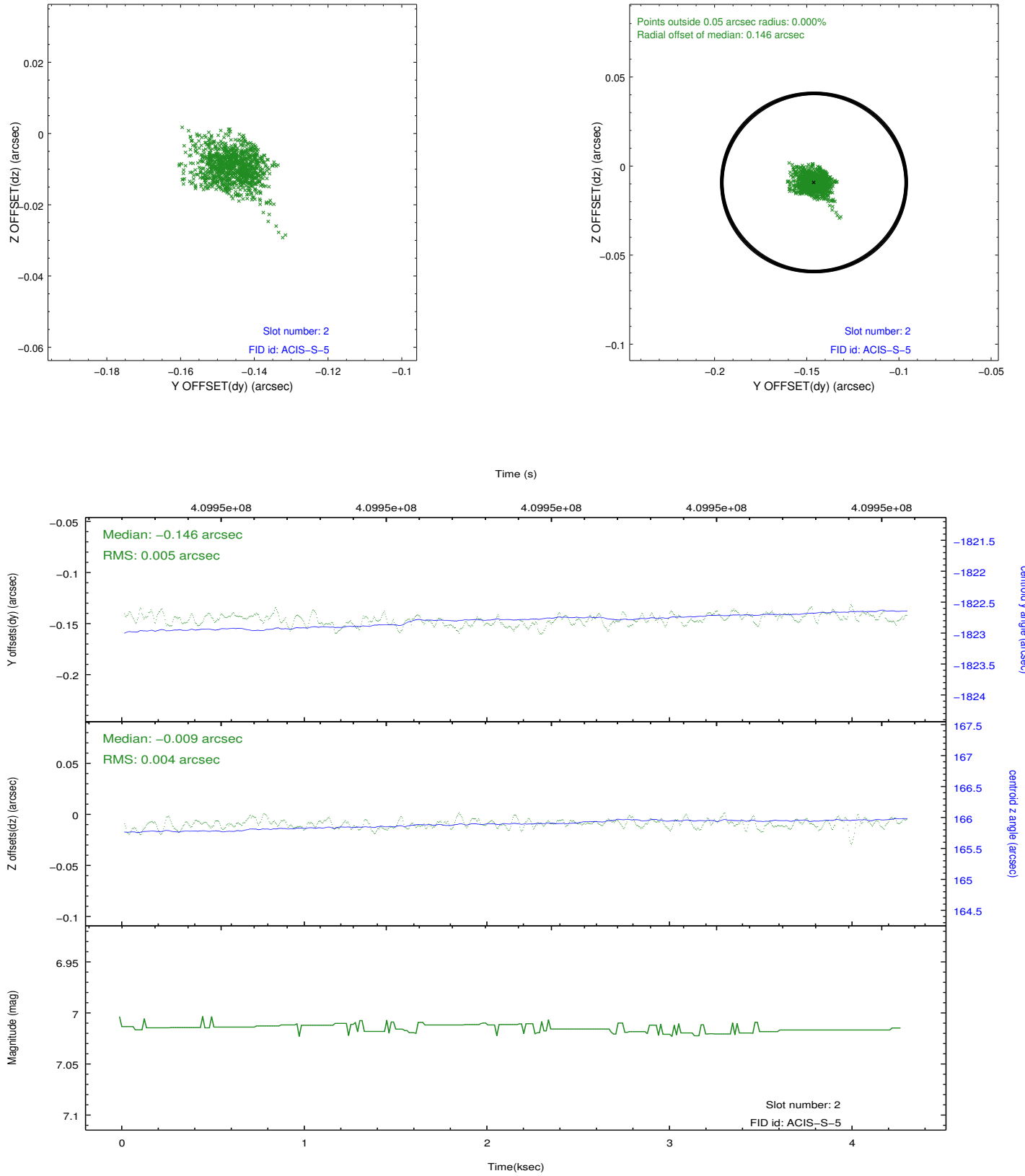
### 2.5.1 Slot 0



## 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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.19760002774

### A.2 Comments