

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10355 - L2 Version 2  
Chandra X-Ray Center

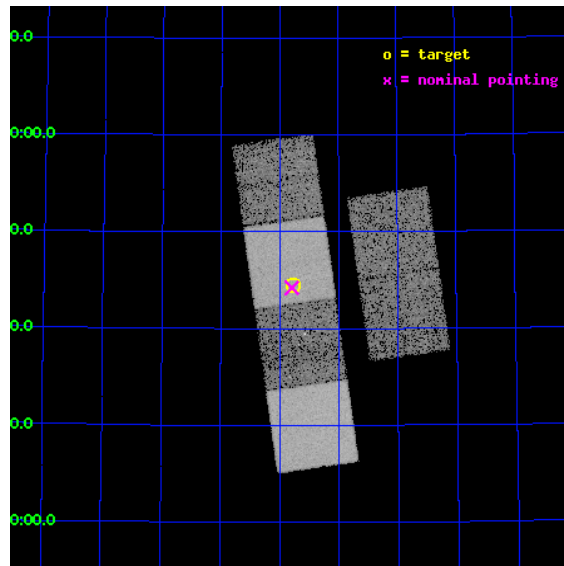
L2 Processing Date : Jun 9 2012

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# 1 Front

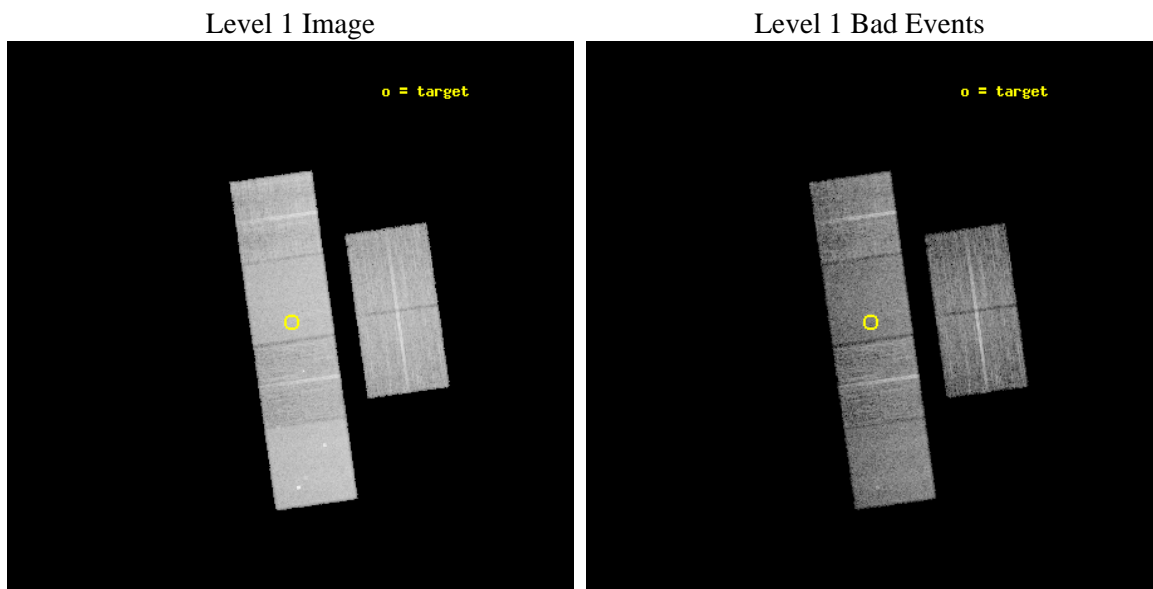
seq_num	701898	Sequence number
obs_id	10355	Observation id
title	Testing the Radiative-Driving Hypothesis of Quasar Outflows	Propos
observer	Dr. Rajib Ganguly	Principal investigator
object	SDSS J1150+6544	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.69375	Observer's specified target RA [deg]
dec_targ	65.741361	Observer's specified target Dec [deg]
ra_nom	177.69850457061	Nominal RA [deg]
dec_nom	65.736974072414	Nominal Dec [deg]
roll_nom	261.91467835514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7948.799970448	Sum of GTIs [s]
livetime	7848.1474790295	Livetime [s]
ontime2	7948.799970448	Sum of GTIs [s]
ontime3	7948.799970448	Sum of GTIs [s]
ontime5	7948.799970448	Sum of GTIs [s]
ontime6	7948.799970448	Sum of GTIs [s]
ontime7	7948.799970448	Sum of GTIs [s]
ontime8	7948.799970448	Sum of GTIs [s]
l2events	141384	Number of level 2 events



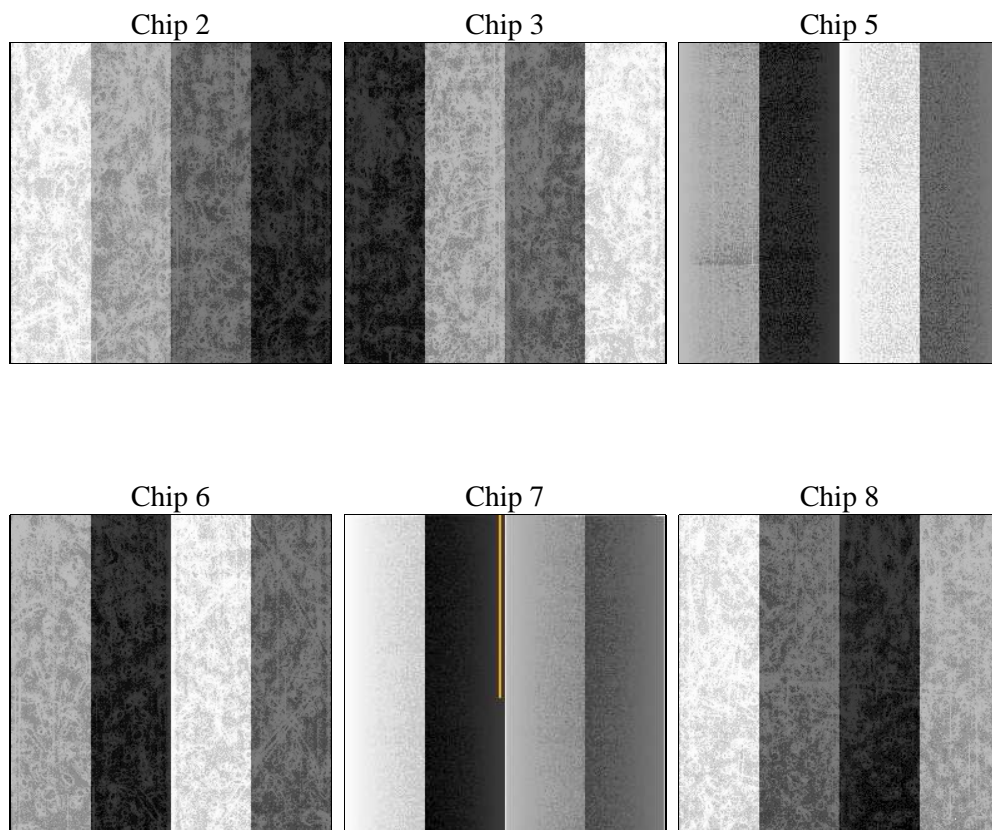
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7948.799970448	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	7948.799970448	Sum of GTIs [s]
date	2012-06-09T07:46:10	Date and time of file creation	ontime3	7948.799970448	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7948.799970448	Sum of GTIs [s]
			ontime6	7948.799970448	Sum of GTIs [s]
			ontime7	7948.799970448	Sum of GTIs [s]
			ontime8	7948.799970448	Sum of GTIs [s]
			l1events	599589	Number of level 1 events

### 2.1.4 Events

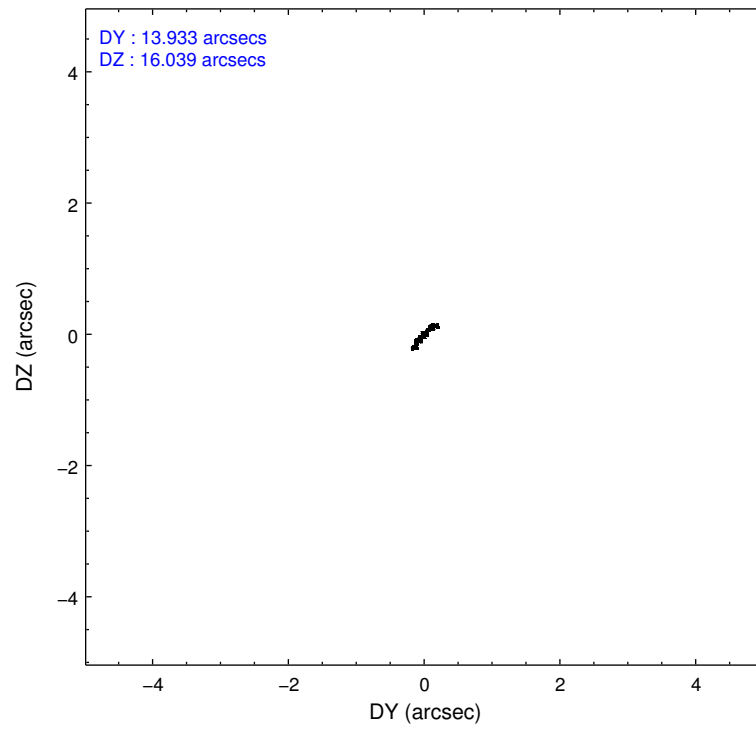
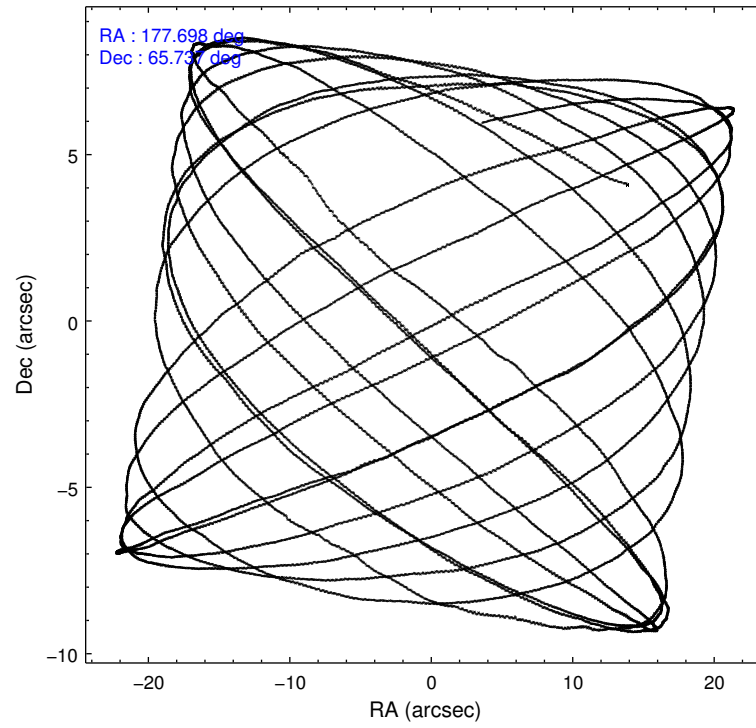
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	83657	79306	130495	84653	117236	104242	grade 0 events	4418	4336	4966	4168	4102	8197
rejected events	73520	69359	70669	74201	68303	79599		5%	5%	3%	4%	3%	7%
rejected %	87%	87%	54%	87%	58%	76%	grade 1 events	64	55	352	50	119	88
								0%	0%	0%	0%	0%	0%
							grade 2 events	2165	2049	18522	2335	9993	5424
								2%	2%	14%	2%	8%	5%
							grade 3 events	958	903	2190	989	4178	2628
								1%	1%	1%	1%	3%	2%
							grade 4 events	909	872	2030	906	4042	2357
								1%	1%	1%	1%	3%	2%
							grade 5 events	3375	3987	9272	3963	11092	5296
								4%	5%	7%	4%	9%	5%
							grade 6 events	1691	1790	32150	2059	26644	6042
								2%	2%	24%	2%	22%	5%
							grade 7 events	70077	65314	61013	70183	57066	74210
								83%	82%	46%	82%	48%	71%

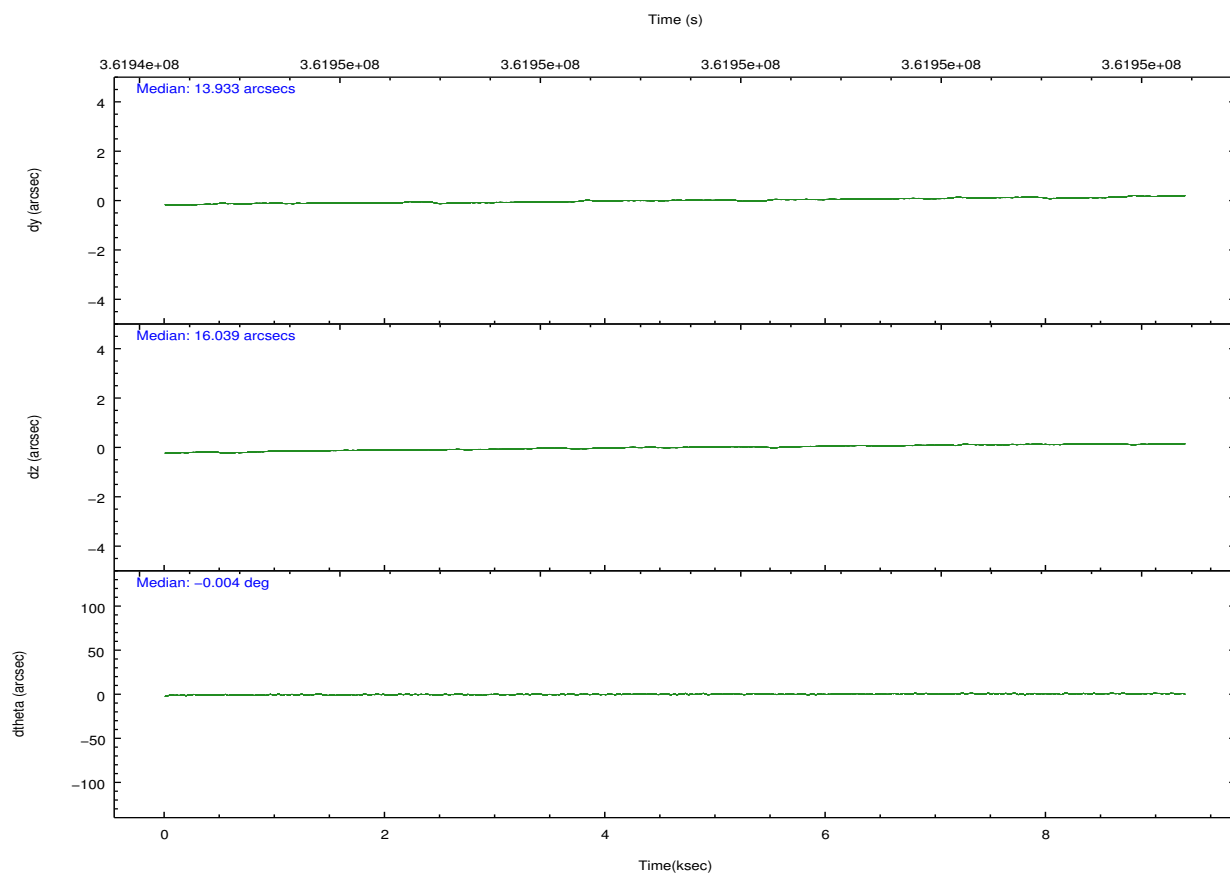
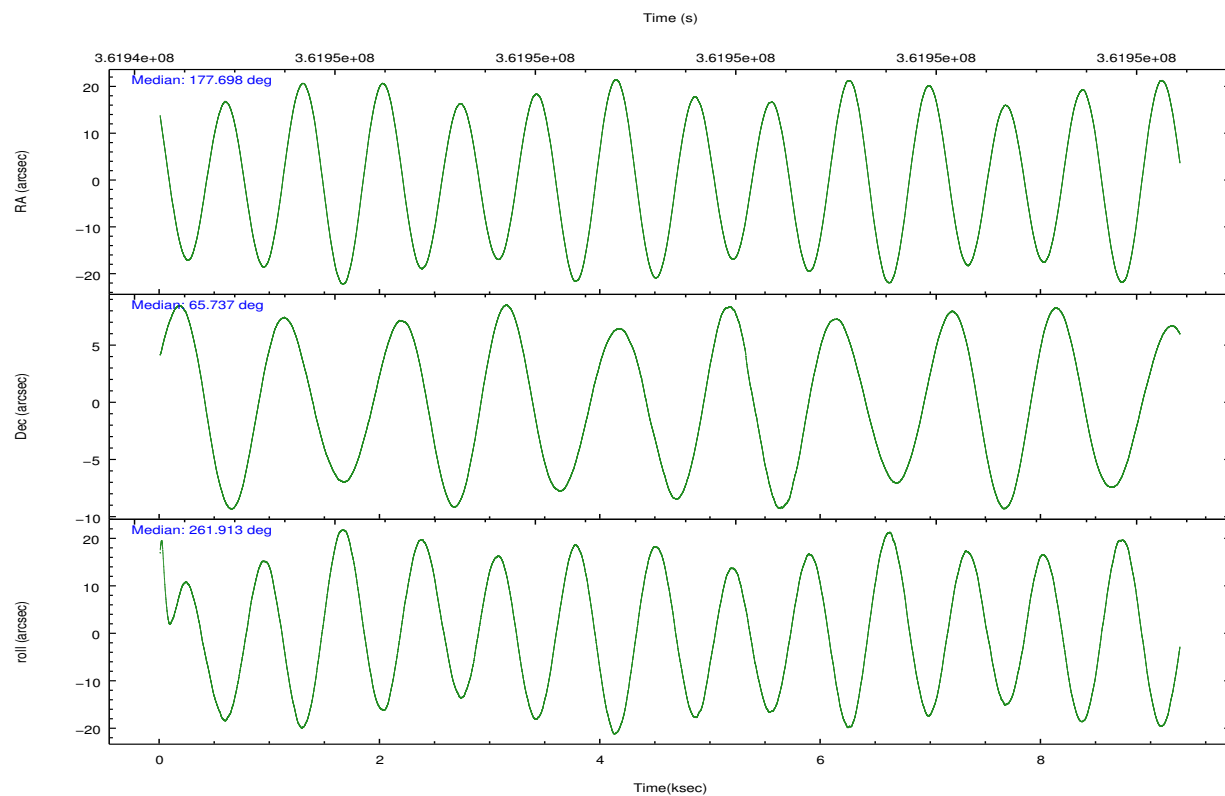


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	177.672789	177.6985045706113	CCD I2 on	O1	Y
[deg] Pointing Dec	65.762146	65.73697407241362	CCD I3 on	O2	Y
[deg] Pointing Roll	261.781497	261.9146783551428	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	Y	Y
[s] Observation start time (MET)	361945970.184000	361944472.63272	CCD S5 on	N	N
Observation start date	2009-06-21T04:31:44	2009-06-21T04:07:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	361953970.184000	361955052.17075	On-chip summing requested	N	N
Observation end date	2009-06-21T06:45:04	2009-06-21T07:04:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



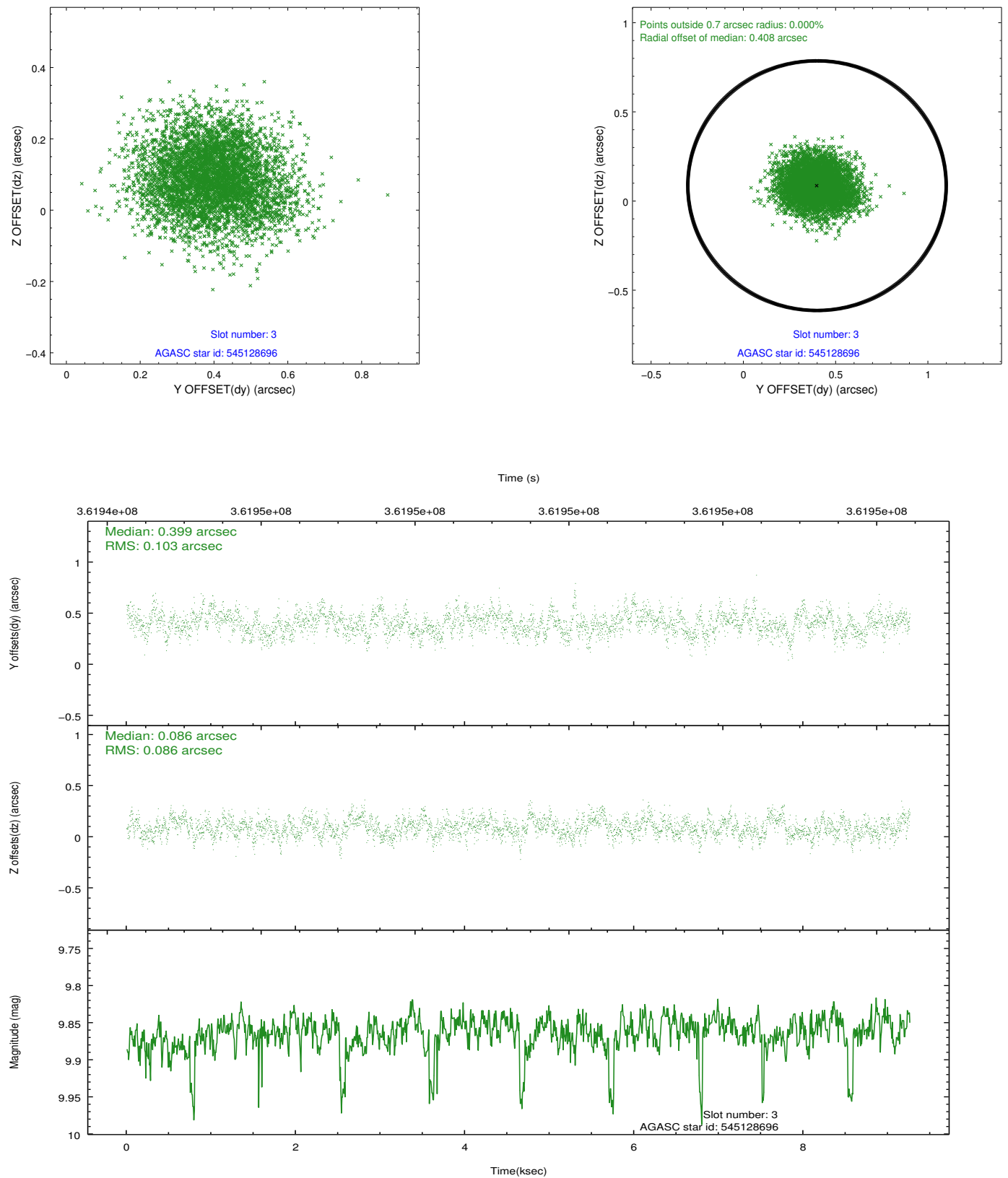


### Slot Statistics

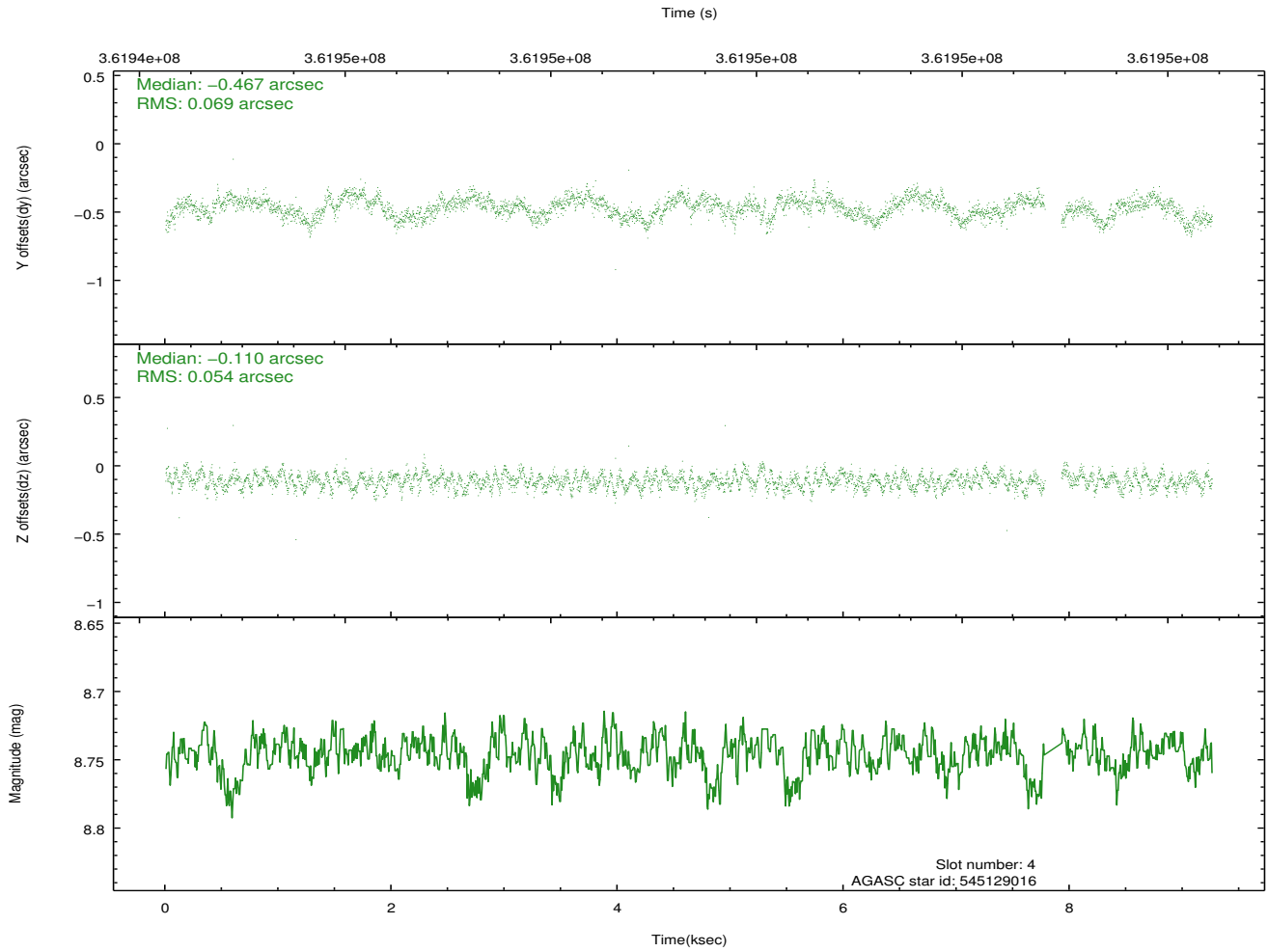
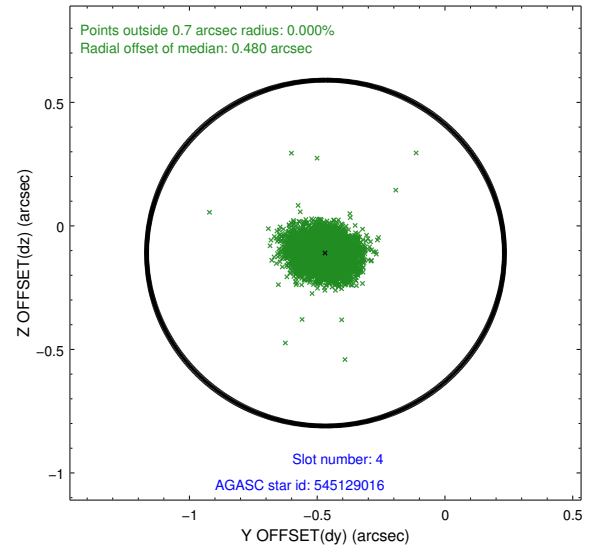
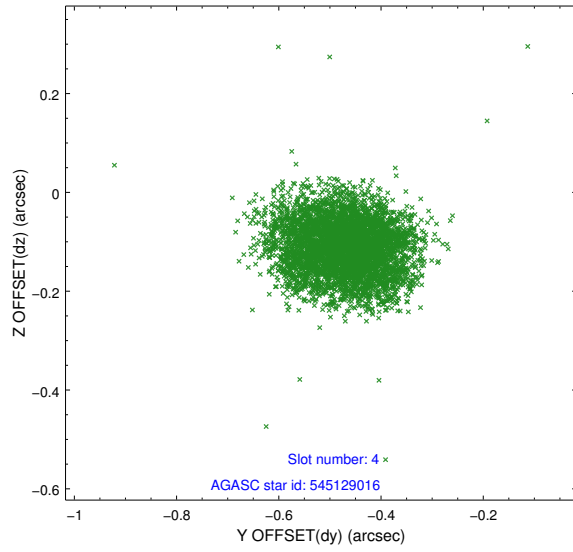
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	2258	-0.049	-0.001	0.006	0.011	0.000000	0.000000	-766.91	-1737.44
1	FID	ACIS-S-4	6.95	2258	0.165	0.024	0.005	0.011	0.000000	0.000000	2146.30	170.47
2	FID	ACIS-S-5	6.98	2258	-0.147	-0.015	0.006	0.010	0.000000	0.000000	-1819.11	164.75
3	GUIDE	545128696	9.86	4487	0.399	0.086	0.143	0.231	176.893321	65.158286	2313.65	-856.95
4	GUIDE	545129016	8.75	4443	-0.467	-0.110	0.093	0.147	176.380569	65.540980	1044.29	-1795.34
5	GUIDE	545264880	9.95	4510	0.041	-0.132	0.120	0.193	178.192265	66.001227	-962.90	628.83
6	GUIDE	545266936	8.54	4515	0.049	0.100	0.067	0.108	178.347602	65.052643	2376.43	1378.61
7	GUIDE	545267304	8.90	4509	-0.018	0.055	0.088	0.147	178.567599	65.219303	1732.95	1614.88

## 2.4 Star Slots

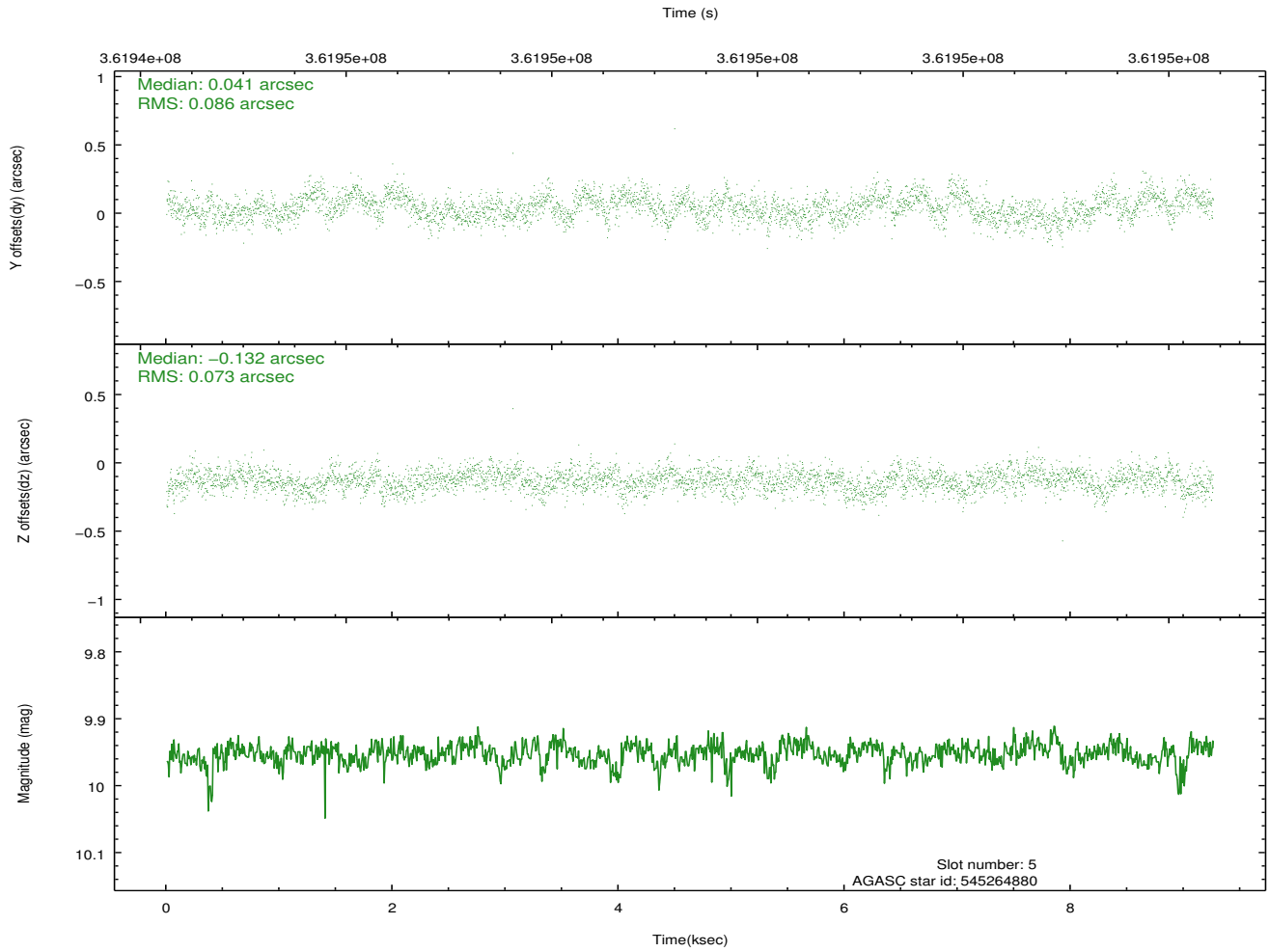
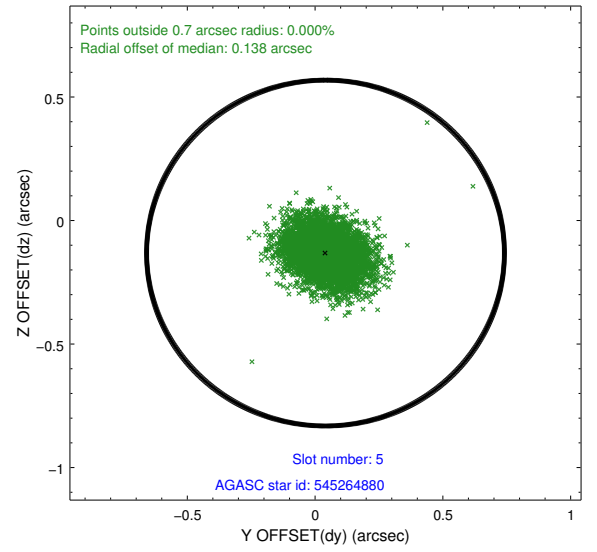
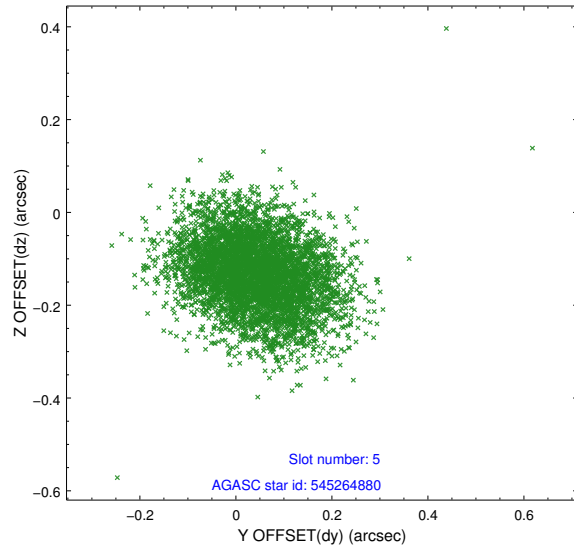
### 2.4.1 Slot 3



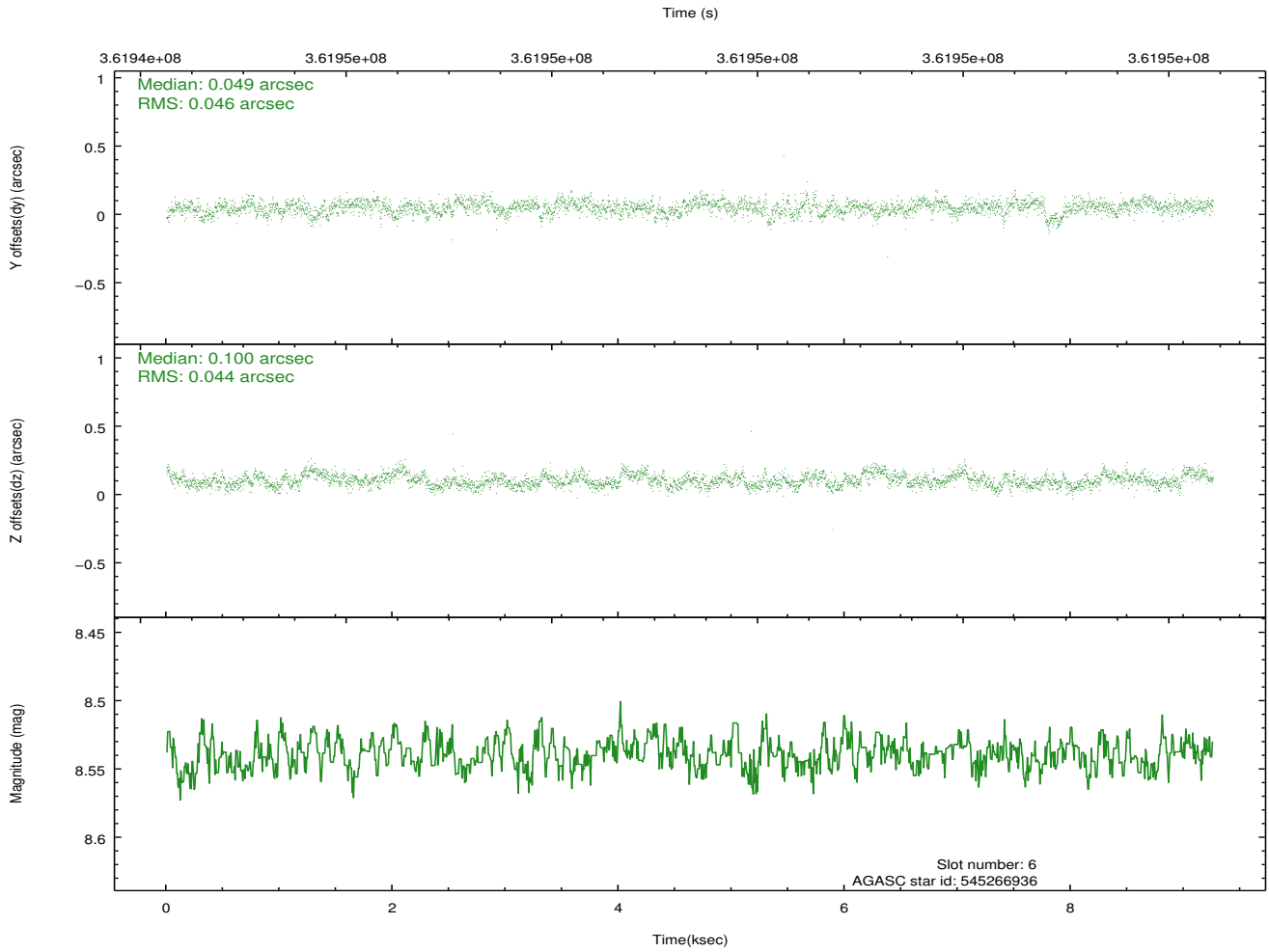
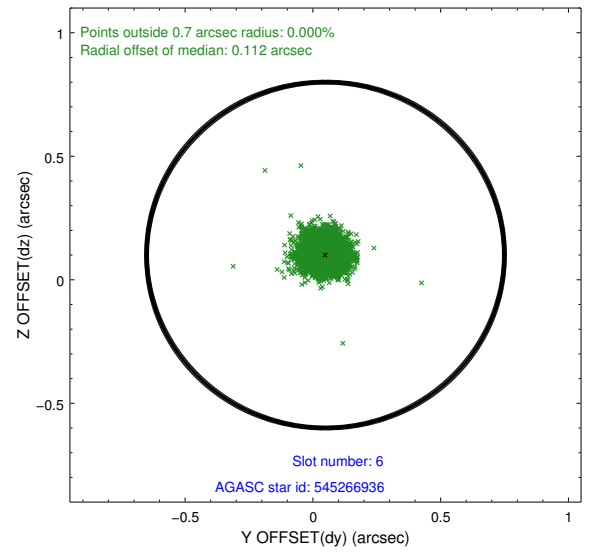
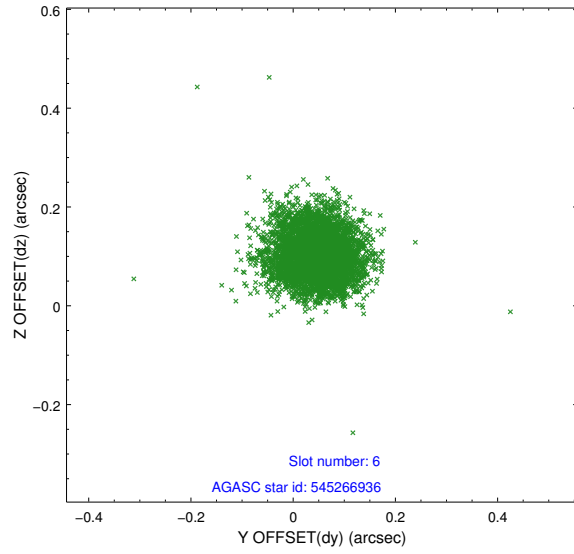
## 2.4.2 Slot 4



### 2.4.3 Slot 5

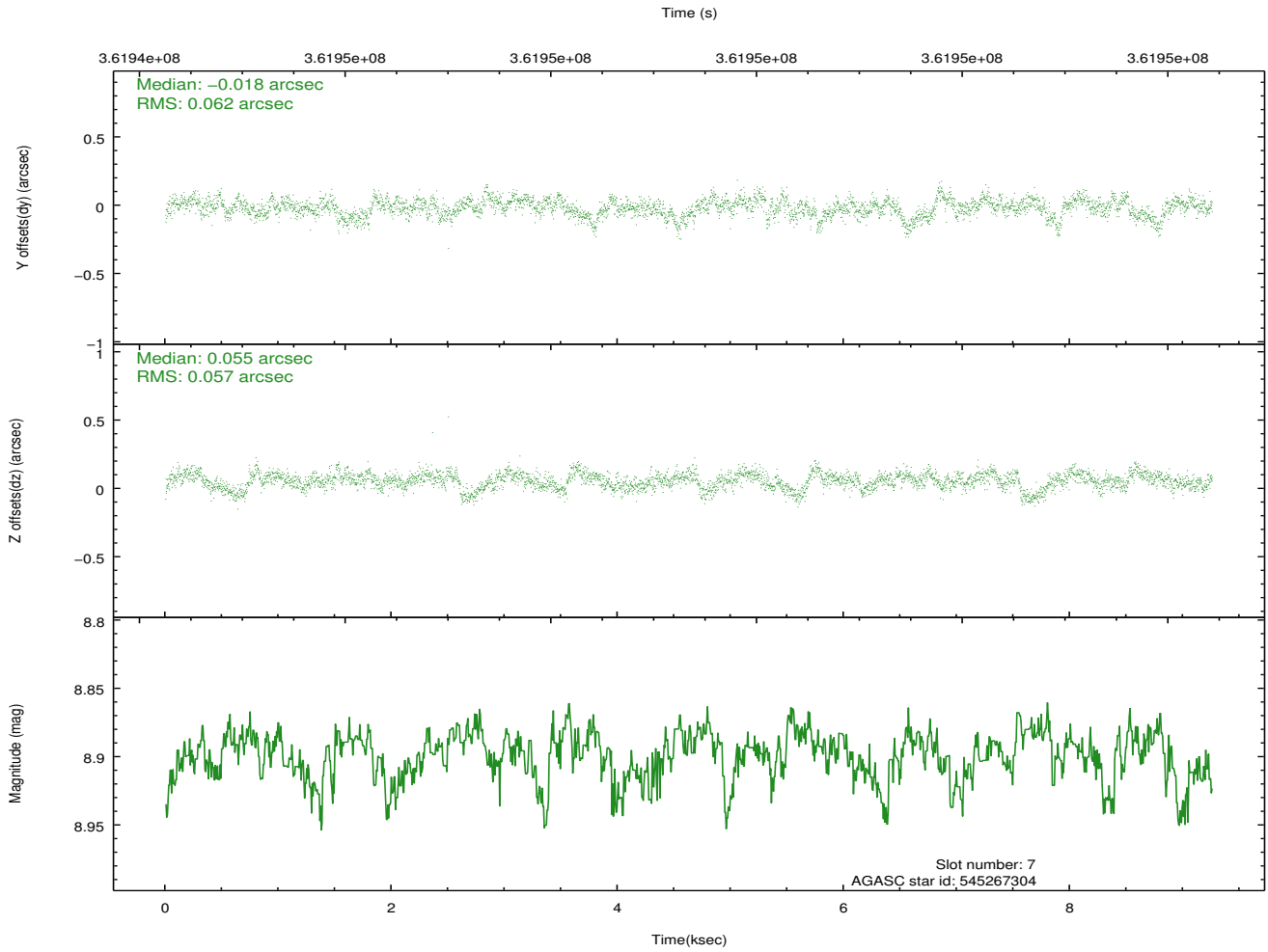
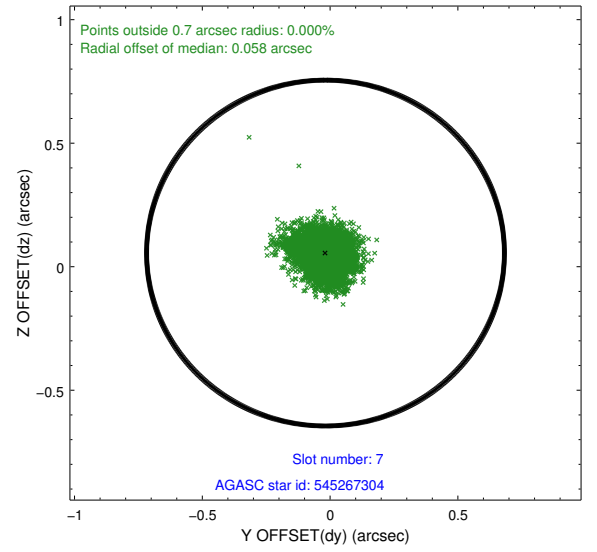
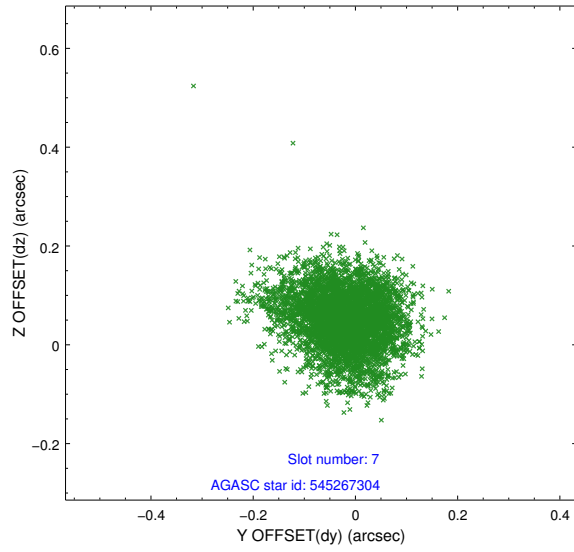


## 2.4.4 Slot 6



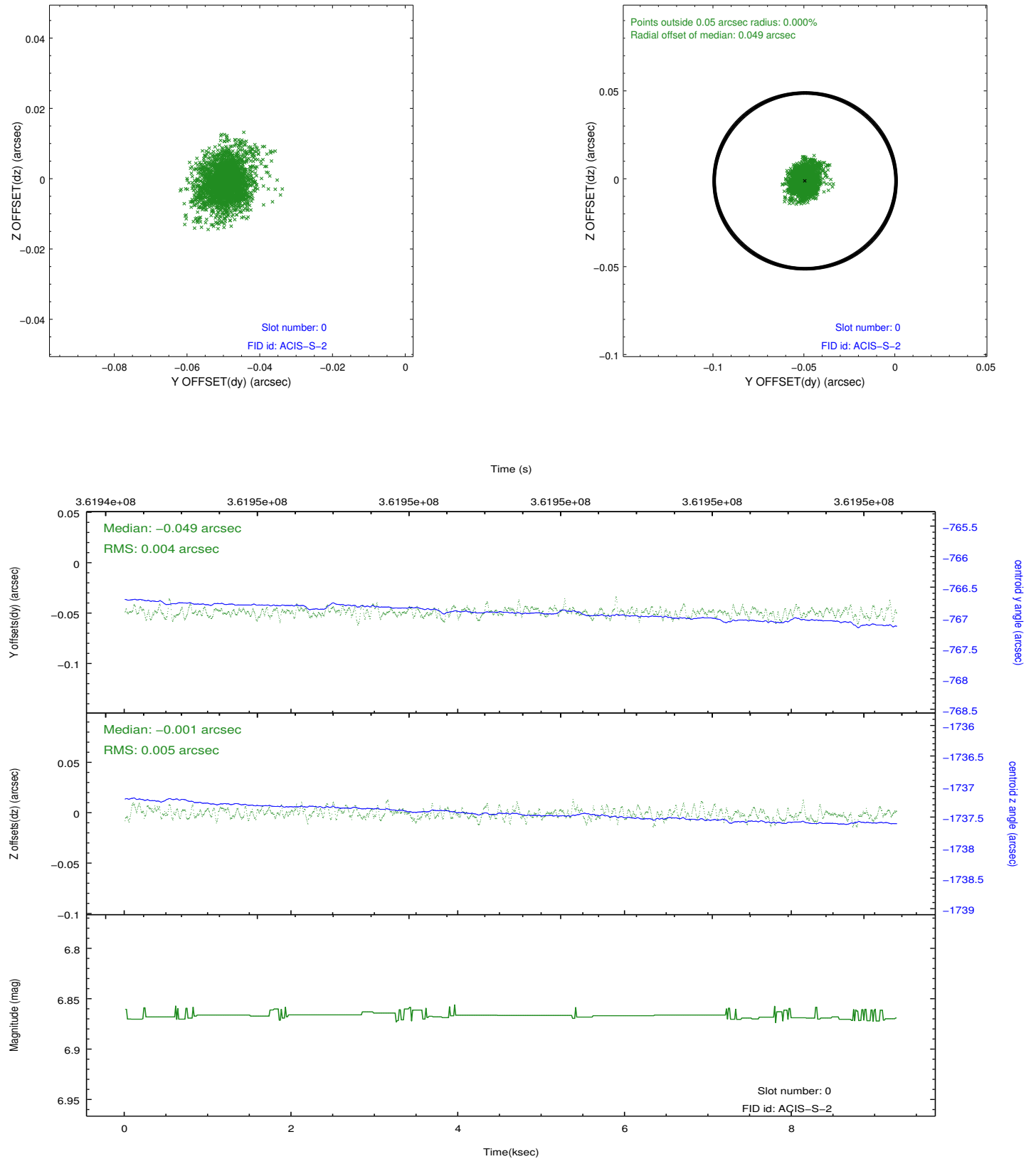


## 2.4.5 Slot 7

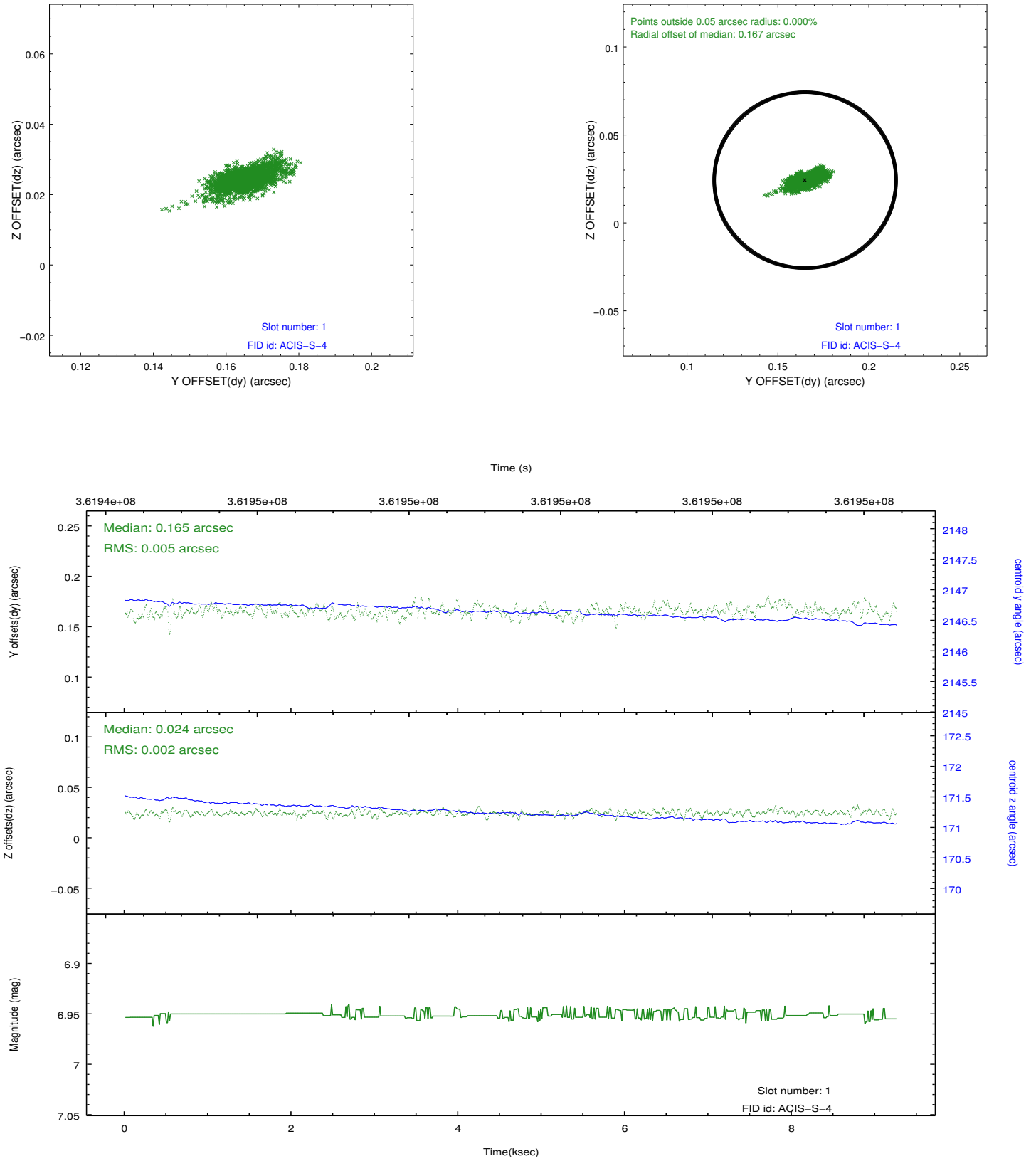


## 2.5 FID Slots

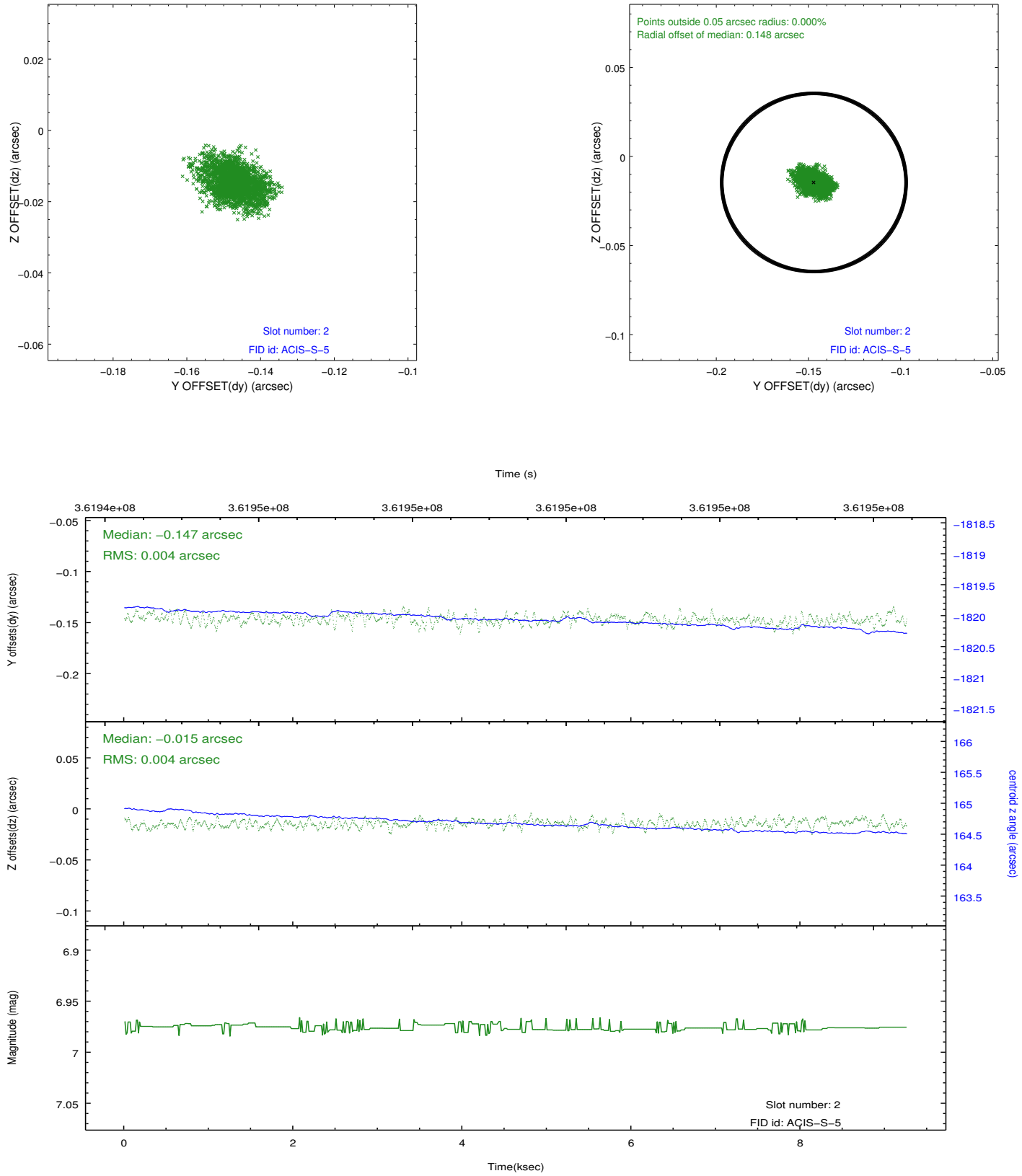
### 2.5.1 Slot 0



## 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)	2012.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.94879997

### A.2 Comments