

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16112 - L2 Version 2  
Chandra X-Ray Center

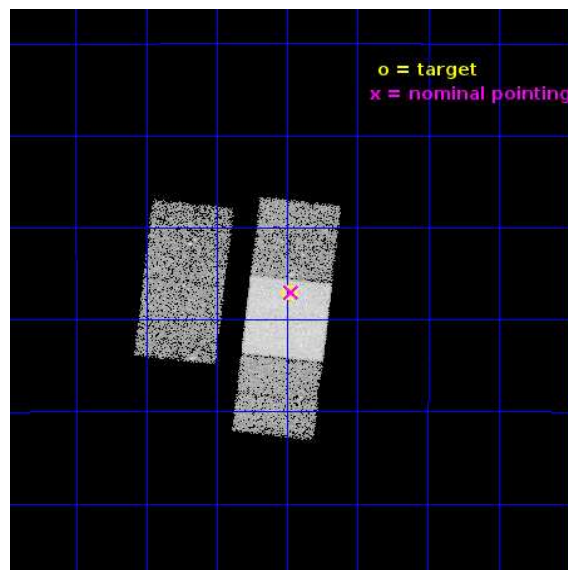
L2 Processing Date : Aug 26 2014

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# 1 Front

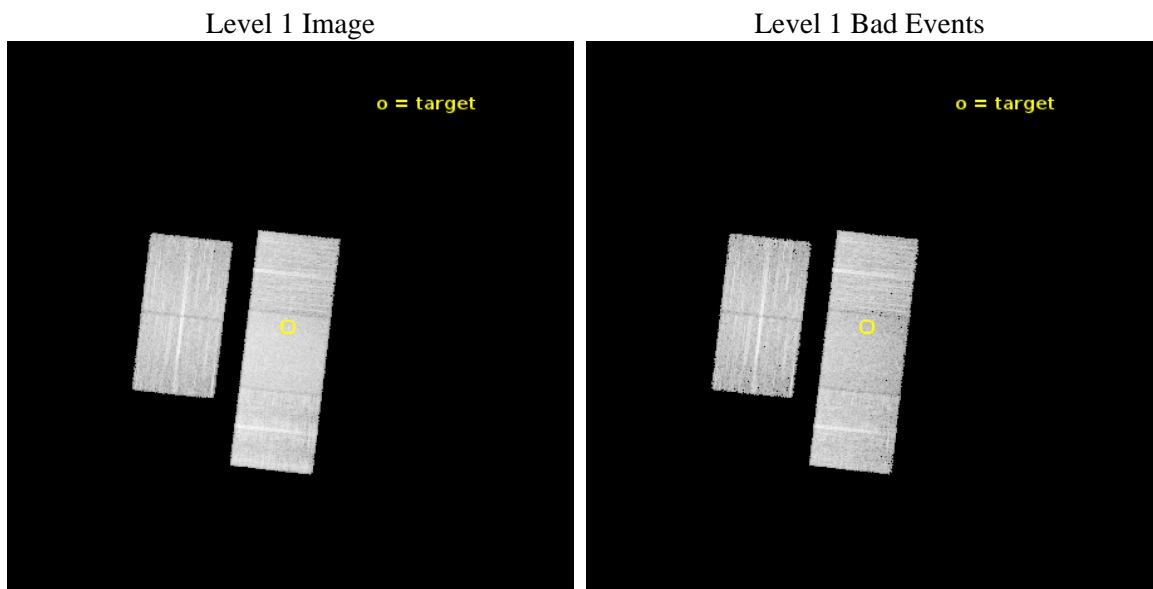
seq_num	703000	Sequence number
obs_id	16112	Observation id
title	A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants	&#160
observer	Dr. Julia Comerford	Principal investigator
object	SDSS J013258.92-102707.0	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.245417	Observer's specified target RA [deg]
dec_targ	-10.451944	Observer's specified target Dec [deg]
ra_nom	23.242564543331	Nominal RA [deg]
dec_nom	-10.450515379634	Nominal Dec [deg]
roll_nom	96.568209744258	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15067.874024987	Sum of GTIs [s]
livetime	14871.001158043	Livetime [s]
ontime2	15067.709864974	Sum of GTIs [s]
ontime3	15067.791944981	Sum of GTIs [s]
ontime6	15067.832984984	Sum of GTIs [s]
ontime7	15067.874024987	Sum of GTIs [s]
ontime8	15067.750904977	Sum of GTIs [s]
l2events	77385	Number of level 2 events



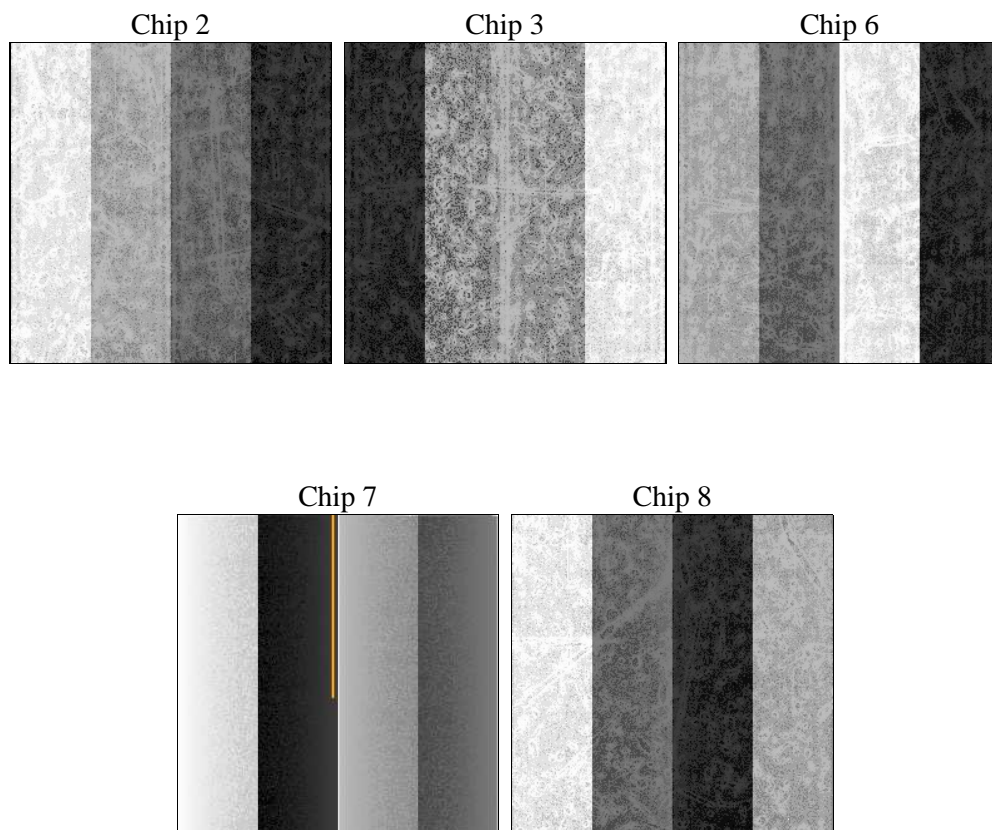
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	15067.874024987	Sum of GTIs [s]
caldsver	4.6.2	&#160	ontime2	15067.709864974	Sum of GTIs [s]
date	2014-08-26T15:23:33	Date and time of file creation	ontime3	15067.791944981	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15067.832984984	Sum of GTIs [s]
			ontime7	15067.874024987	Sum of GTIs [s]
			ontime8	15067.750904977	Sum of GTIs [s]
			l1events	436550	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	74649	73824	79522	105703	102852
rejected events	65969	65320	70138	59845	75413
rejected %	88%	88%	88%	56%	73%

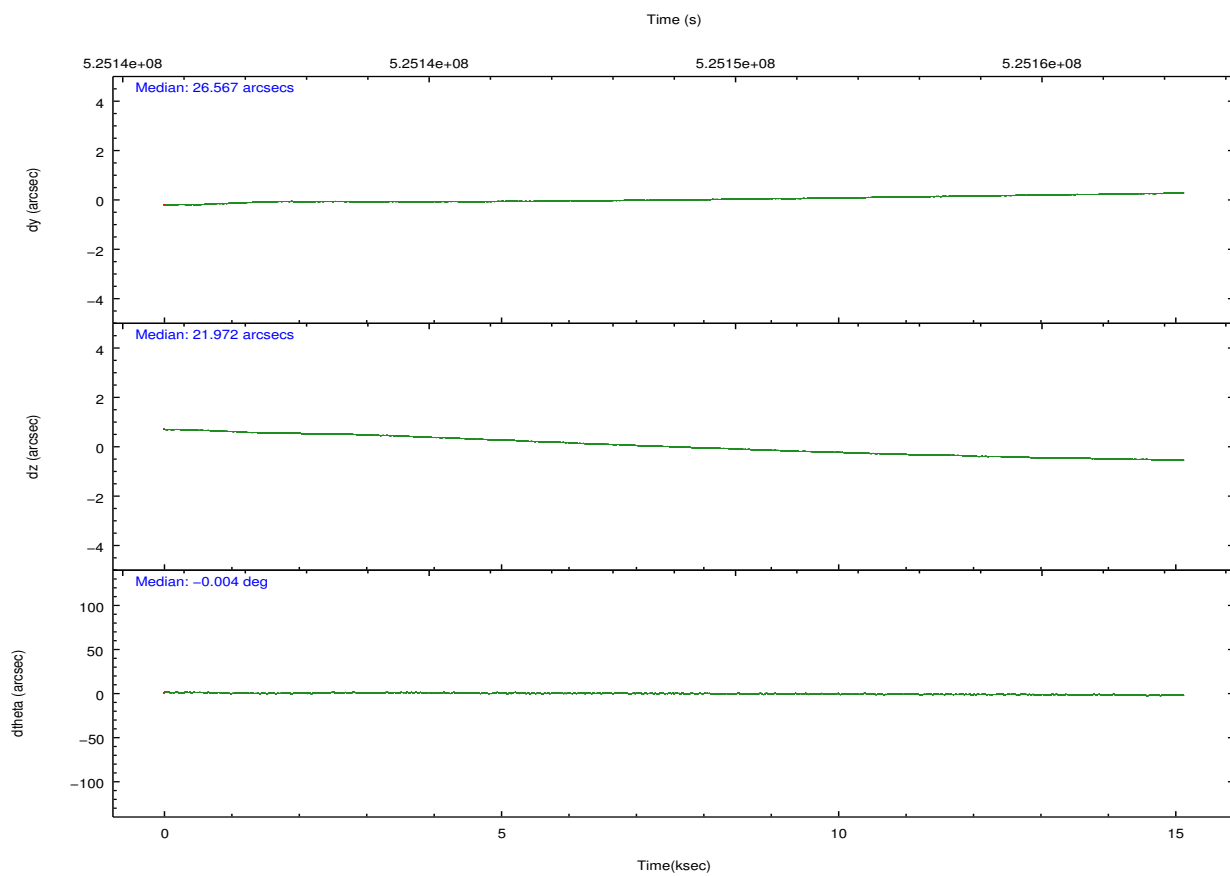
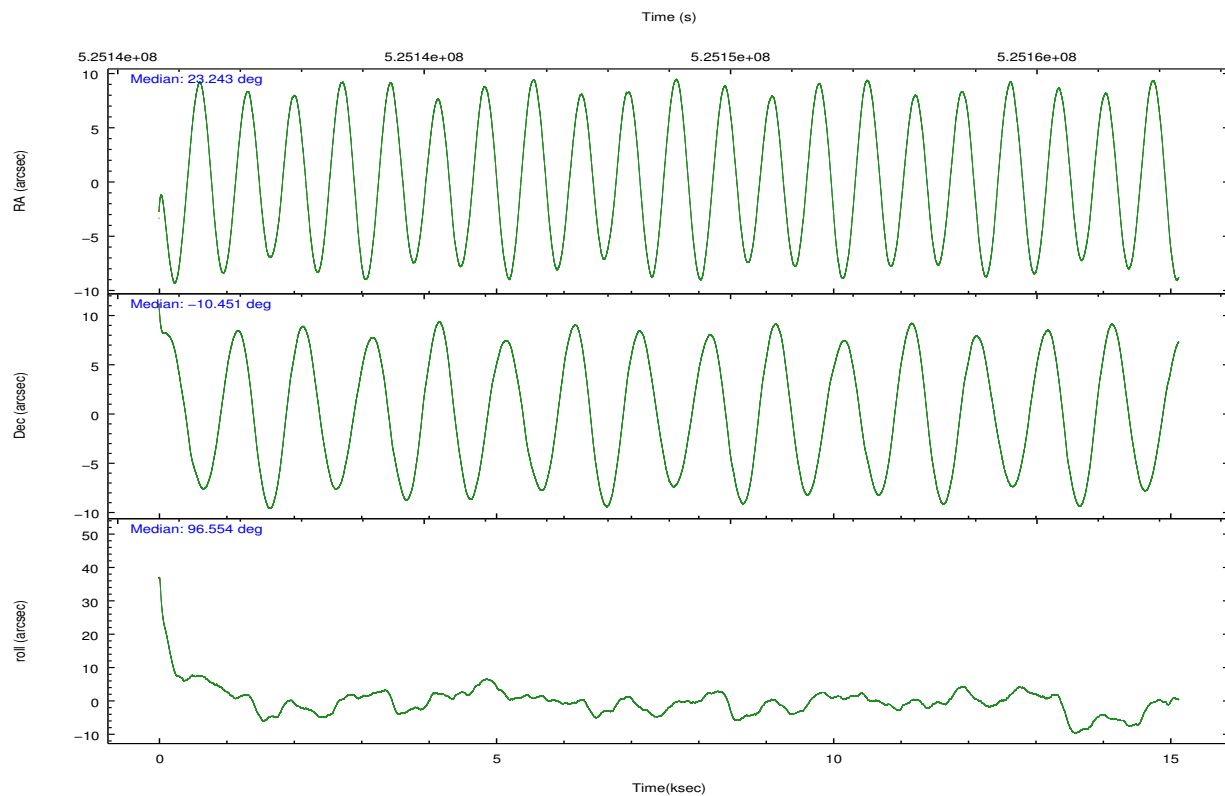
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3103	2975	3163	4097	7881
	4%	4%	3%	3%	7%
grade 1 events	41	41	38	115	50
	0%	0%	0%	0%	0%
grade 2 events	2153	1837	2219	9416	6649
	2%	2%	2%	8%	6%
grade 3 events	854	894	899	3959	2729
	1%	1%	1%	3%	2%
grade 4 events	876	929	958	3887	2605
	1%	1%	1%	3%	2%
grade 5 events	3285	4028	4043	10988	5887
	4%	5%	5%	10%	5%
grade 6 events	1696	1871	2149	24515	7583
	2%	2%	2%	23%	7%
grade 7 events	62641	61249	66053	48726	69468
	83%	82%	83%	46%	67%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	23.259517	23.24256454333059	CCD I2 on	O1	Y
[deg] Pointing Dec	-10.472355	-10.45051537963429	CCD I3 on	O4	Y
[deg] Pointing Roll	96.414656	96.56820974425833	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O3	Y
[s] Observation start time (MET)	525141556.184000	525140276.93504	CCD S5 on	N	N
Observation start date	2014-08-23T00:38:09	2014-08-23T00:17:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	525156556.184000	525157096.16098	On-chip summing requested	N	N
Observation end date	2014-08-23T04:48:09	2014-08-23T04:58:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect

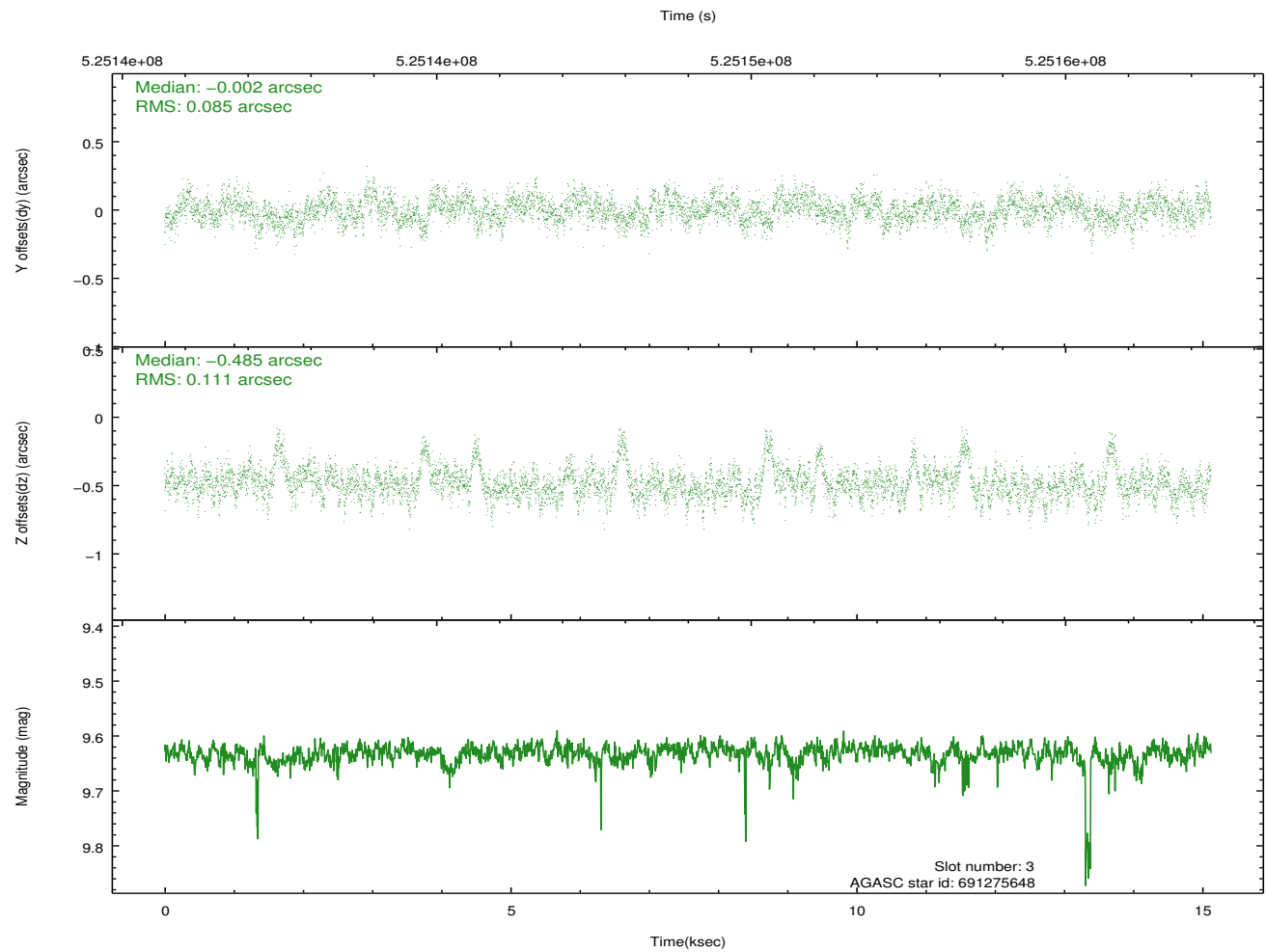
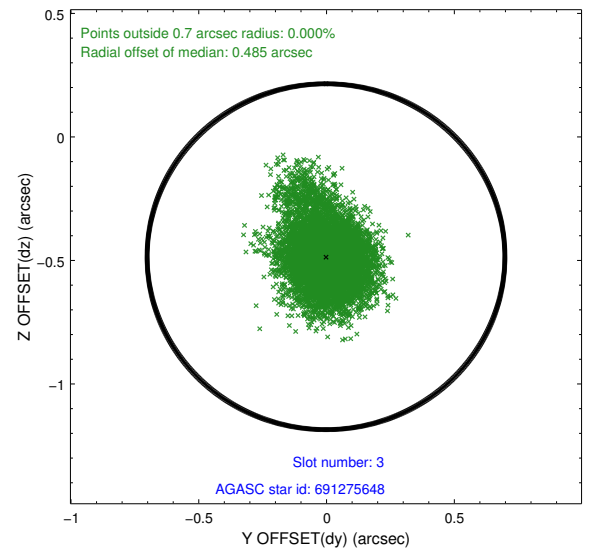
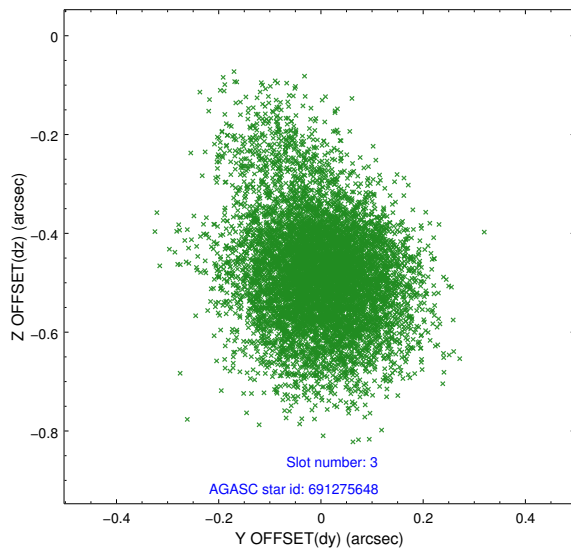


### Slot Statistics

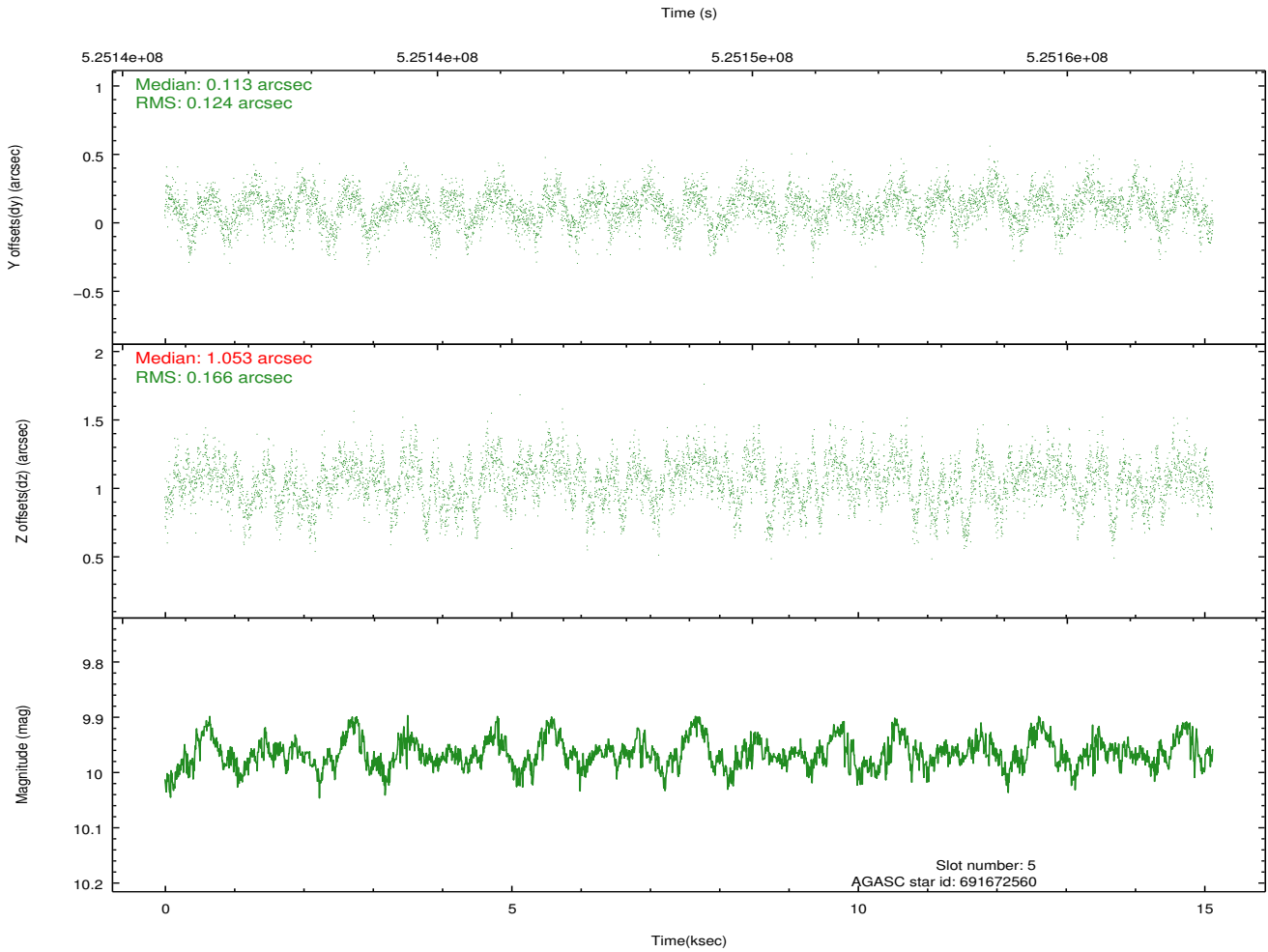
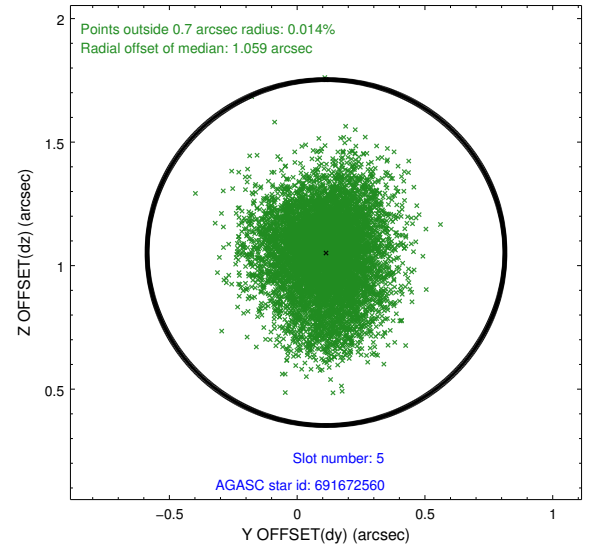
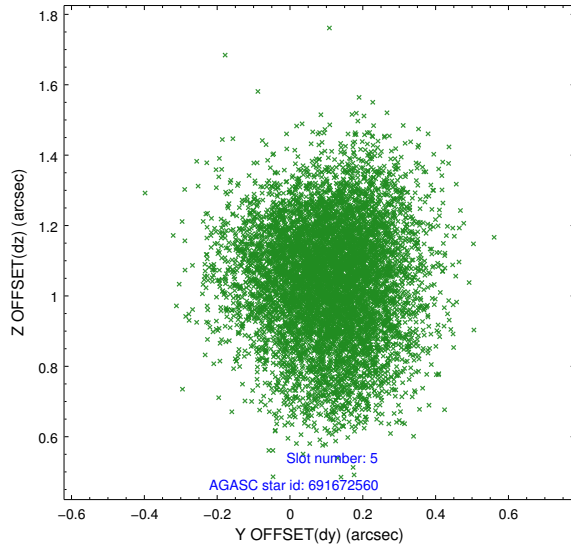
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	3689	-0.153	-0.011	0.019	0.030	0.000000	0.000000	-780.04	-1743.53
1	FID	ACIS-S-4	7.02	3690	0.315	0.077	0.010	0.018	0.000000	0.000000	2133.57	164.72
2	FID	ACIS-S-5	7.06	3689	-0.195	-0.058	0.017	0.026	0.000000	0.000000	-1832.54	158.62
3	GUIDE	691275648	9.63	7374	-0.002	-0.485	0.142	0.255	22.818651	-11.118870	-2140.53	1807.68
4	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	691672560	9.97	7364	0.113	1.053	0.221	0.360	23.852022	-11.018771	-2190.13	-1859.23
6	GUIDE	691275936	8.69	7375	-0.146	-0.876	0.104	0.167	22.648621	-10.841724	-1083.18	2294.84
7	GUIDE	691677744	9.76	7369	0.040	0.318	0.178	0.296	23.960309	-10.694263	-1072.92	-2373.09

## 2.4 Star Slots

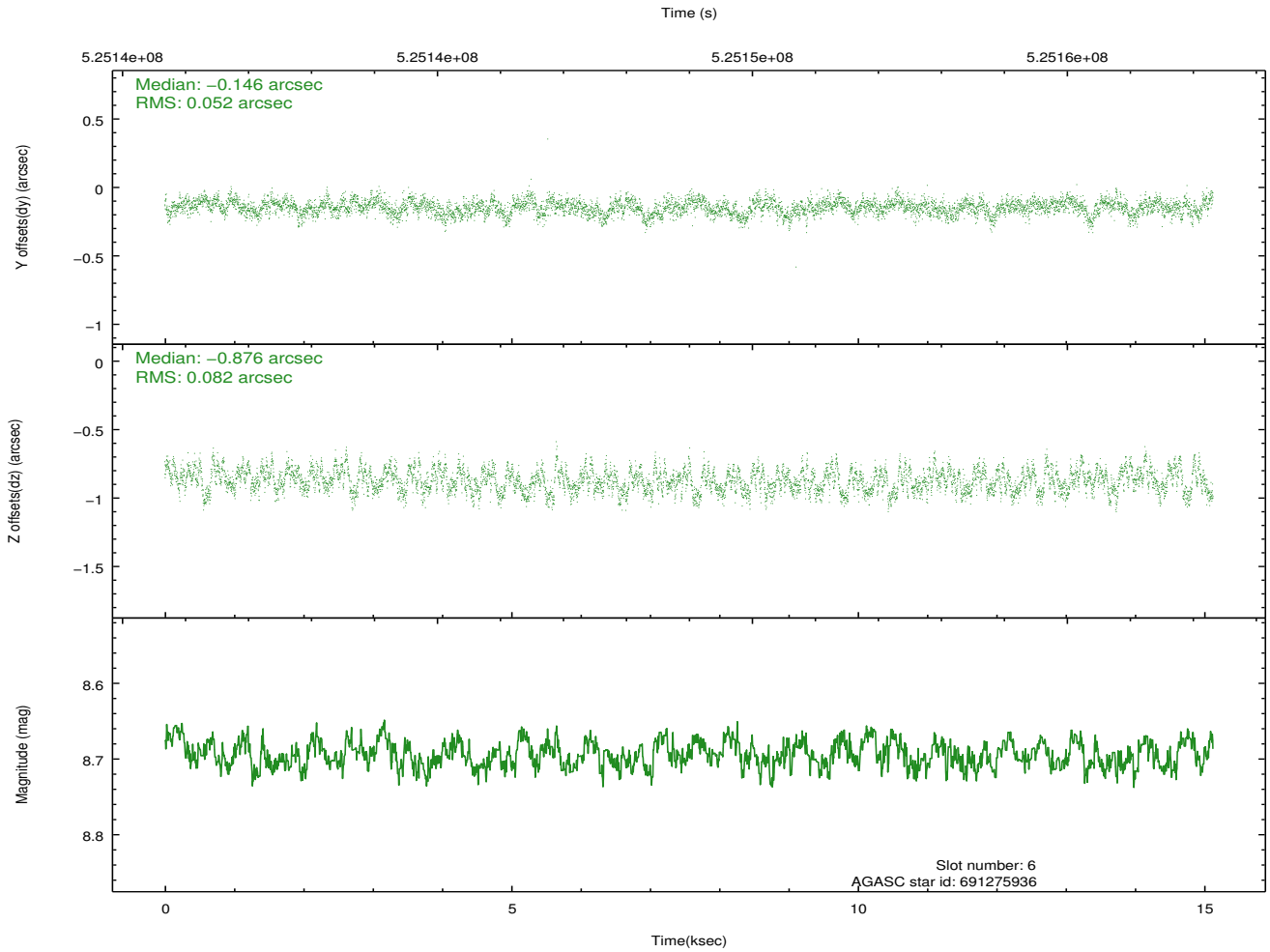
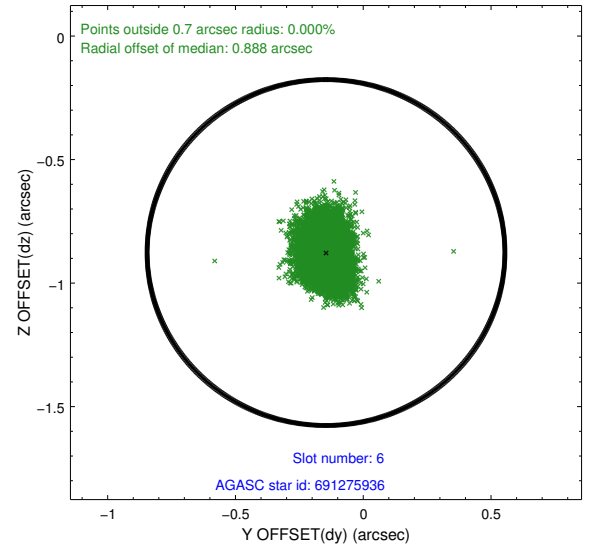
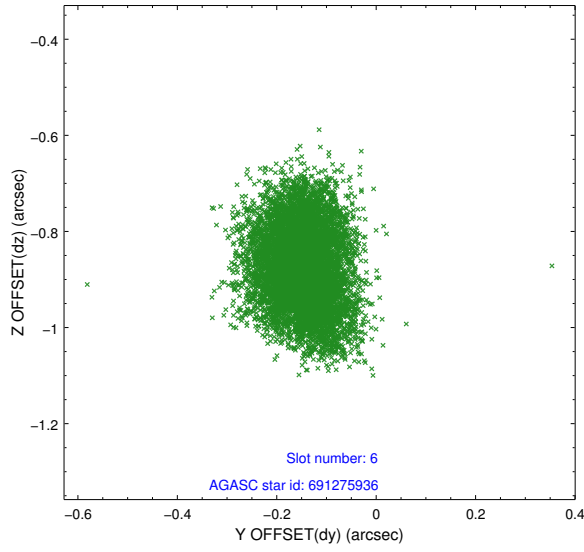
### 2.4.1 Slot 3



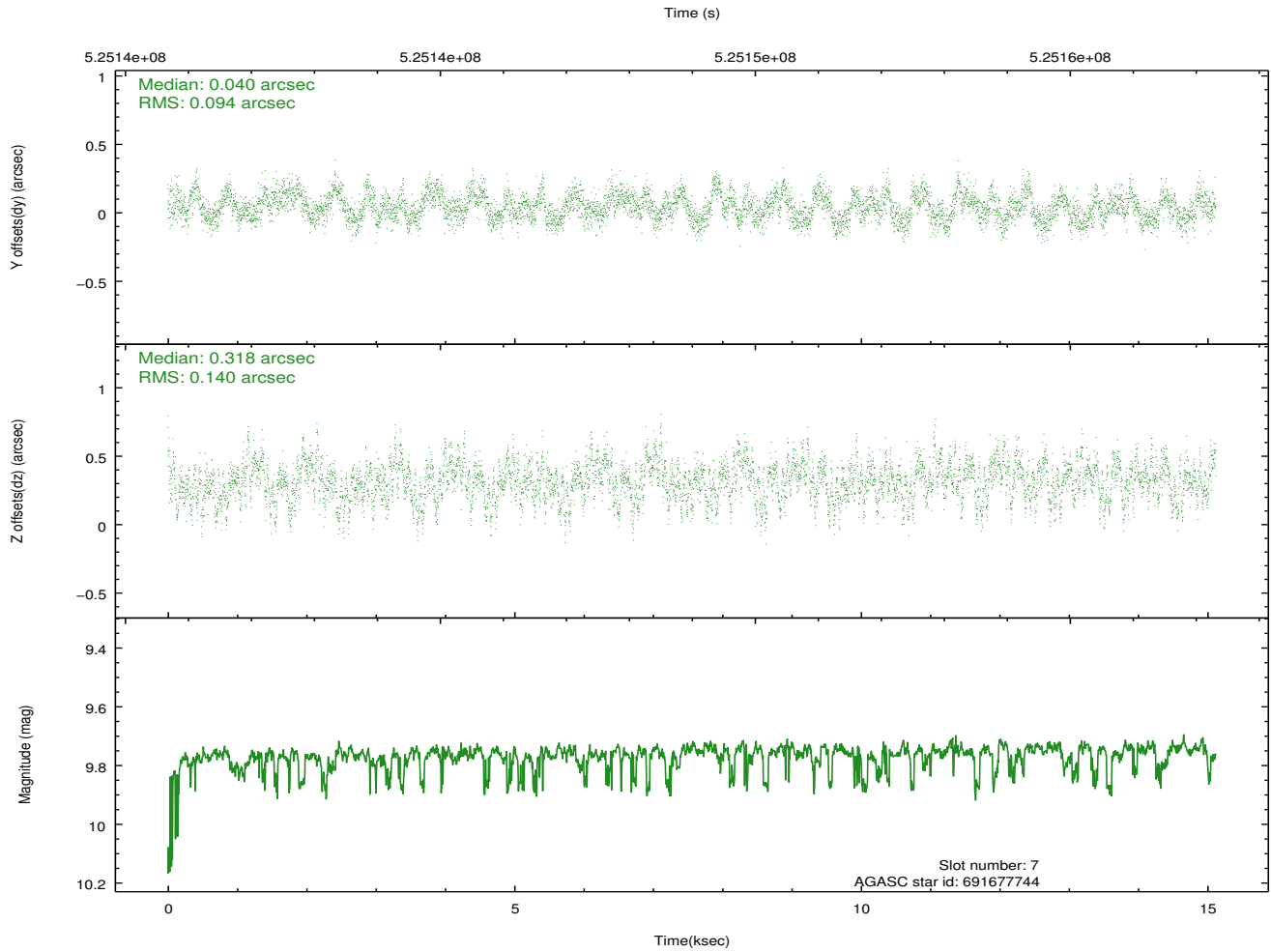
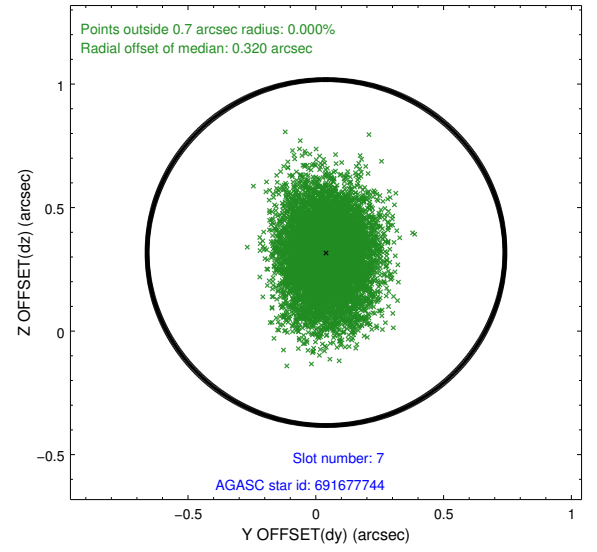
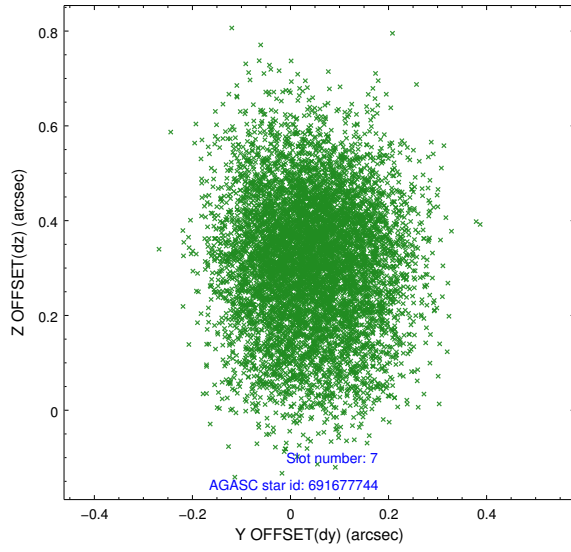
## 2.4.2 Slot 5



### 2.4.3 Slot 6



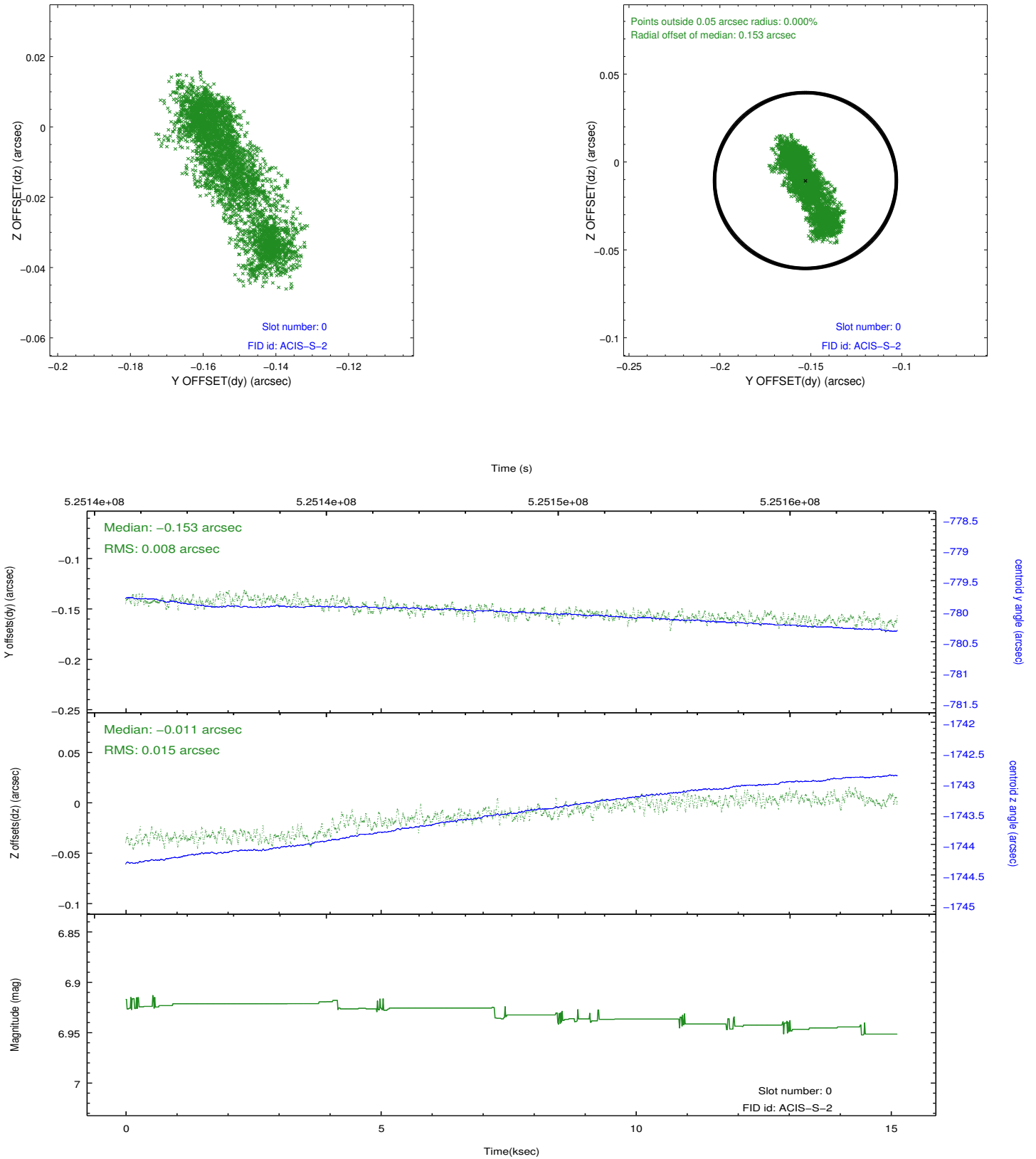
## 2.4.4 Slot 7



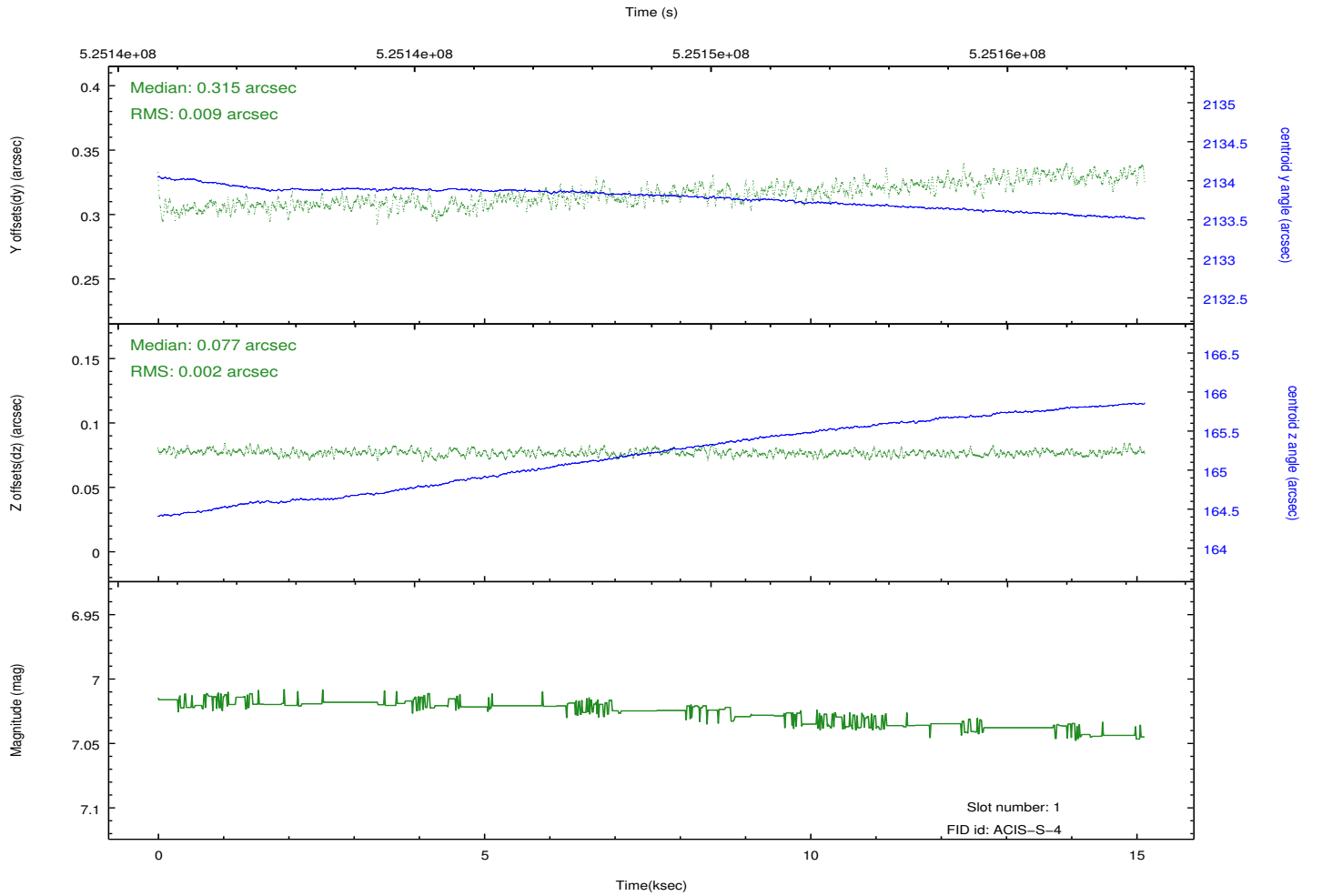
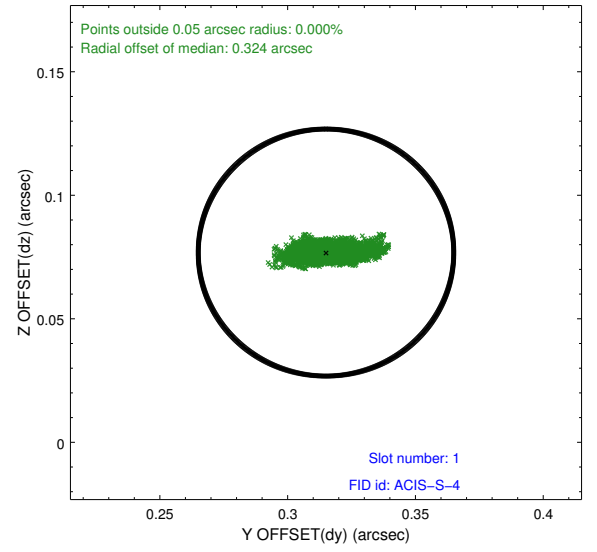
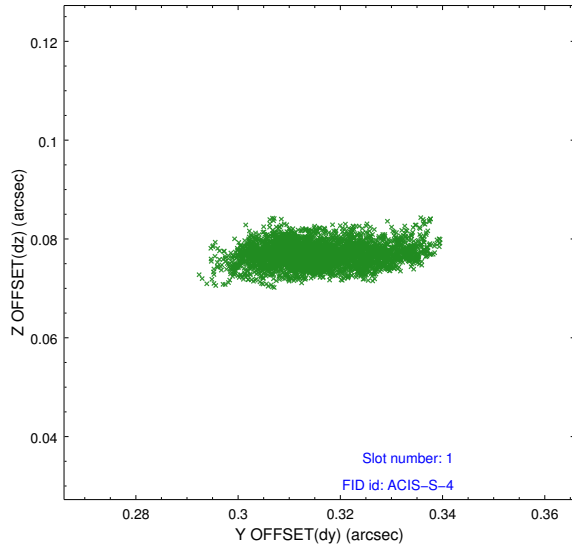


## 2.5 FID Slots

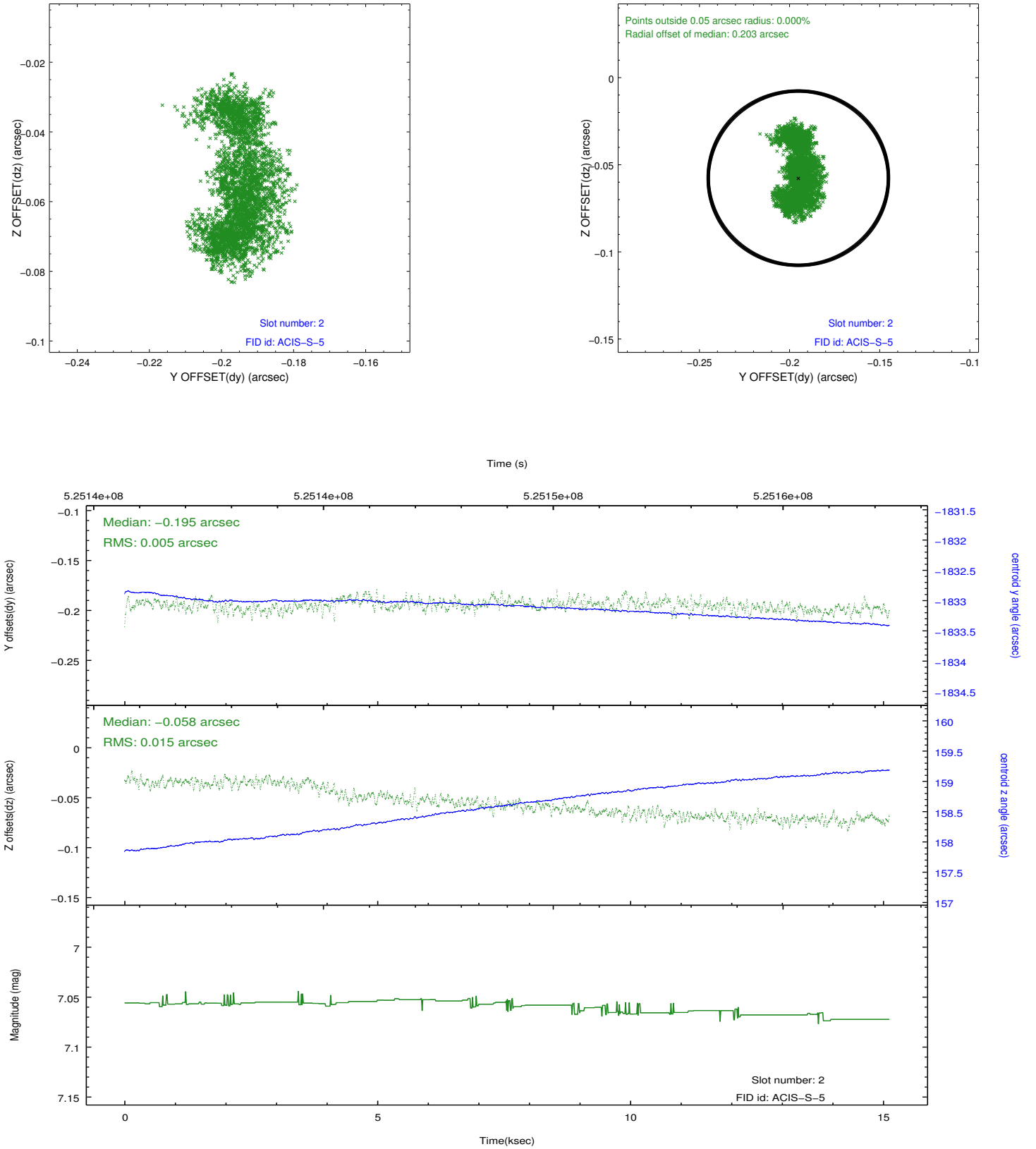
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.08.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.067874024987

## A.2 Comments

Joint proposal with HST.

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.