

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 19459 - L2 Version 1  
Chandra X-Ray Center

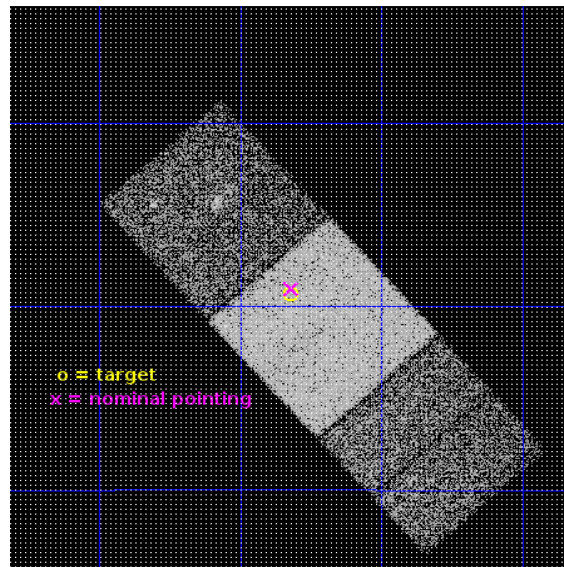
L2 Processing Date : Oct 6 2016

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# 1 Front

seq_num	703308	Sequence number
obs_id	19459	Observation id
title	Searching for intermediate-mass black holes in extremely-metal poor galaxies	Proposal title
observer	Mar Mezcua	Principal investigator
object	J020549.3-094920.3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.455417	Observer's specified target RA [deg]
dec_targ	-9.822306	Observer's specified target Dec [deg]
ra_nom	31.454563641321	Nominal RA [deg]
dec_nom	-9.817436163281	Nominal Dec [deg]
roll_nom	48.156519809112	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15078.278644919	Sum of GTIs [s]
livetime	14881.269833956	Livetime [s]
ontime6	15078.237604976	Sum of GTIs [s]
ontime7	15078.278644919	Sum of GTIs [s]
ontime8	15075.055544615	Sum of GTIs [s]
l2events	77136	Number of level 2 events

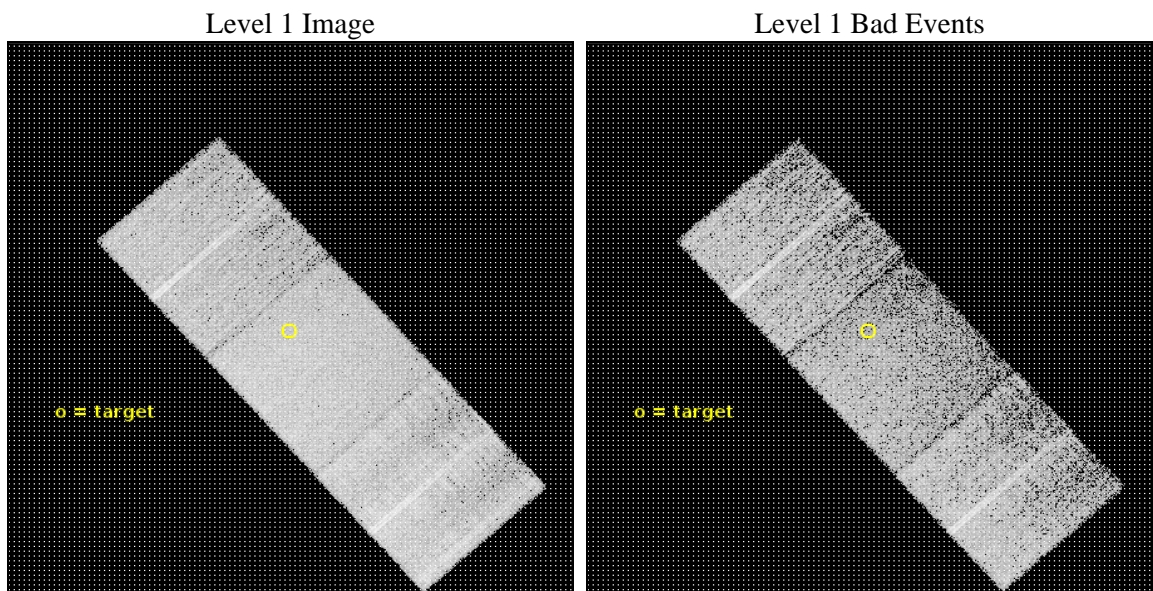




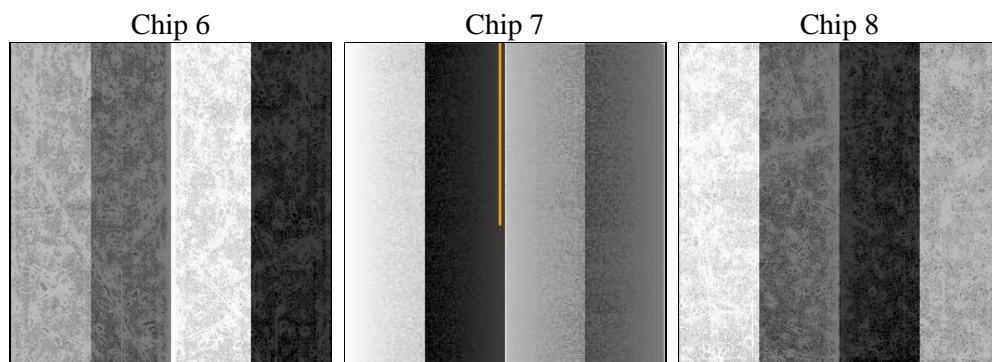
## 2 OBI

### 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	10.5.1.1	Processing system revision	ontime	15078.278644919	Sum of GTIs [s]
caldsver	4.7.2	&#160	ontime6	15078.237604976	Sum of GTIs [s]
date	2016-10-06T13:22:03	Date and time of file creation	ontime7	15078.278644919	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	15075.055544615	Sum of GTIs [s]
			l1events	359428	Number of level 1 events

### 2.1.4 Events

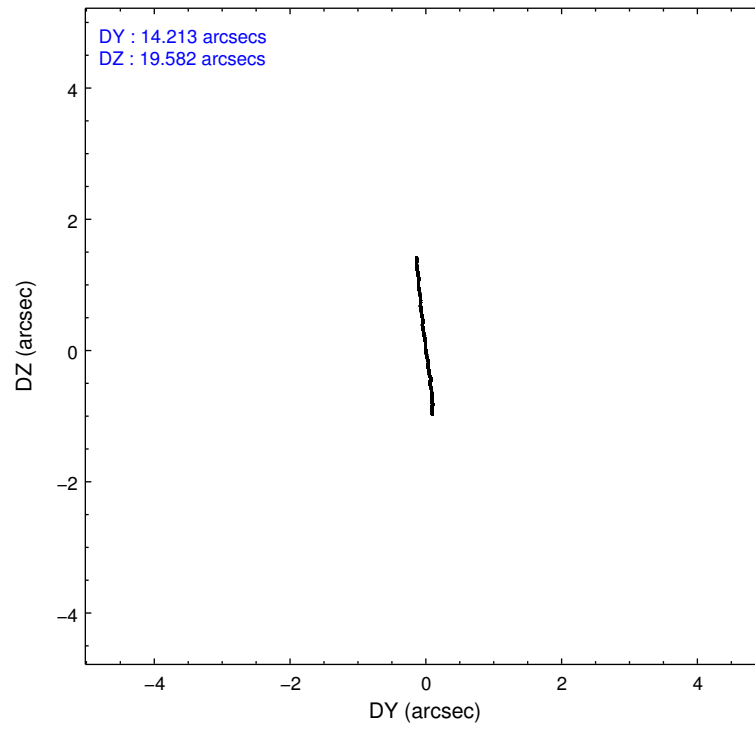
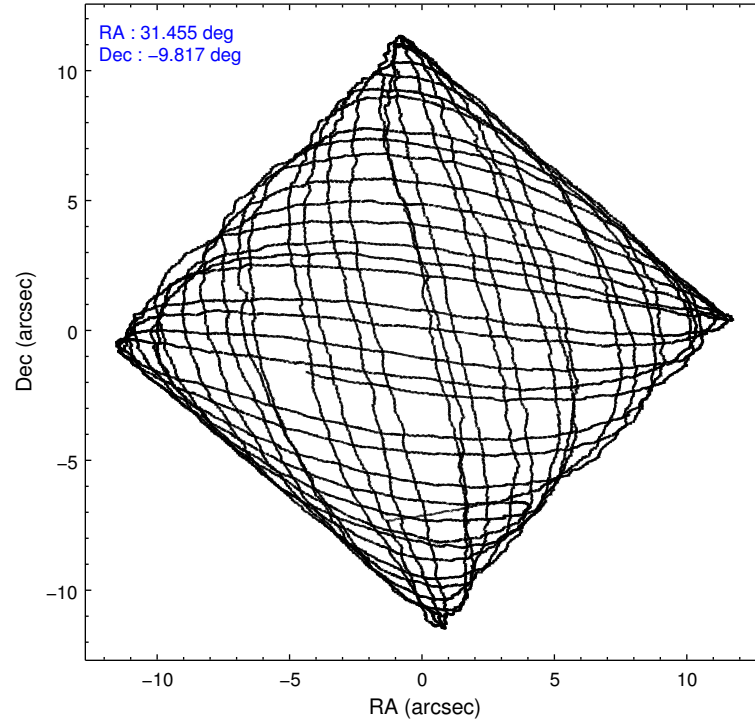
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	99599	127946	131883
rejected events	87571	71831	94945
rejected %	87%	56%	71%

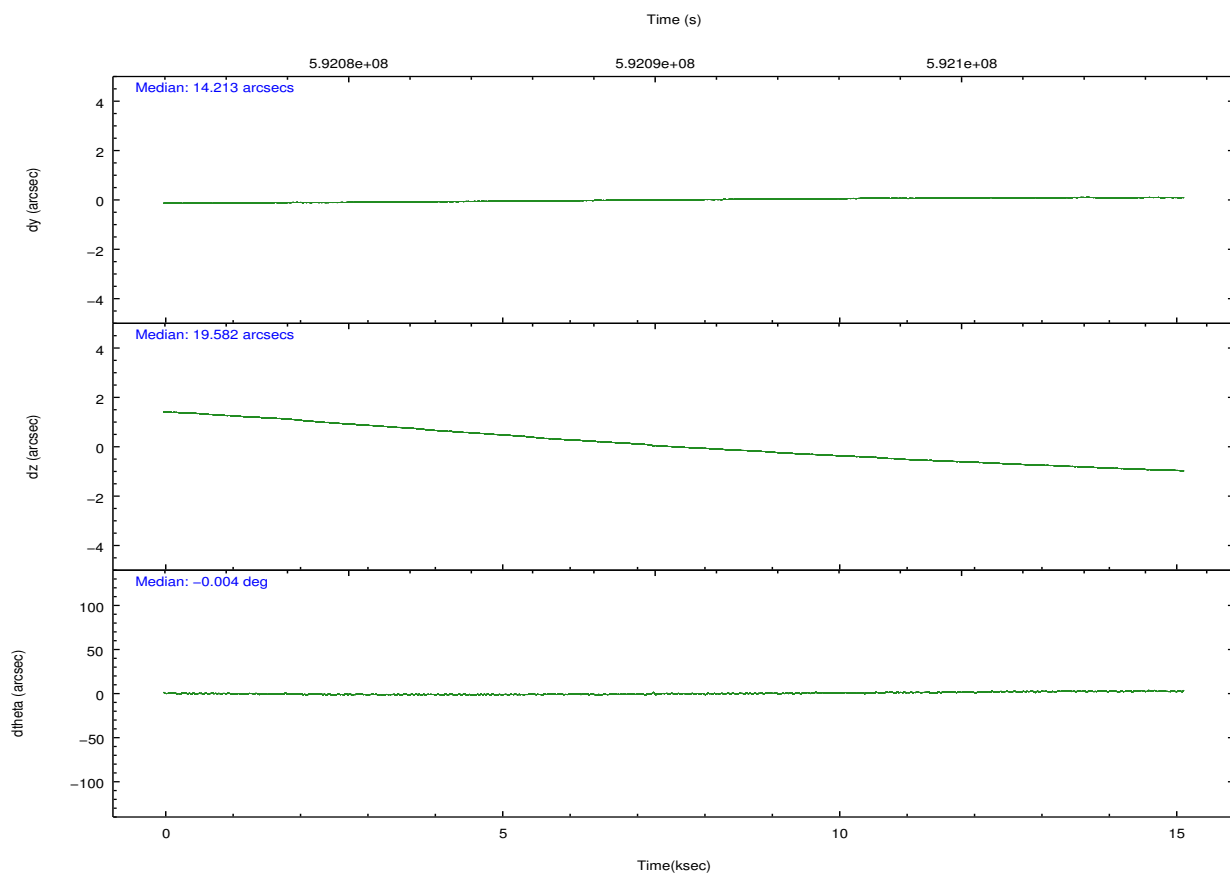
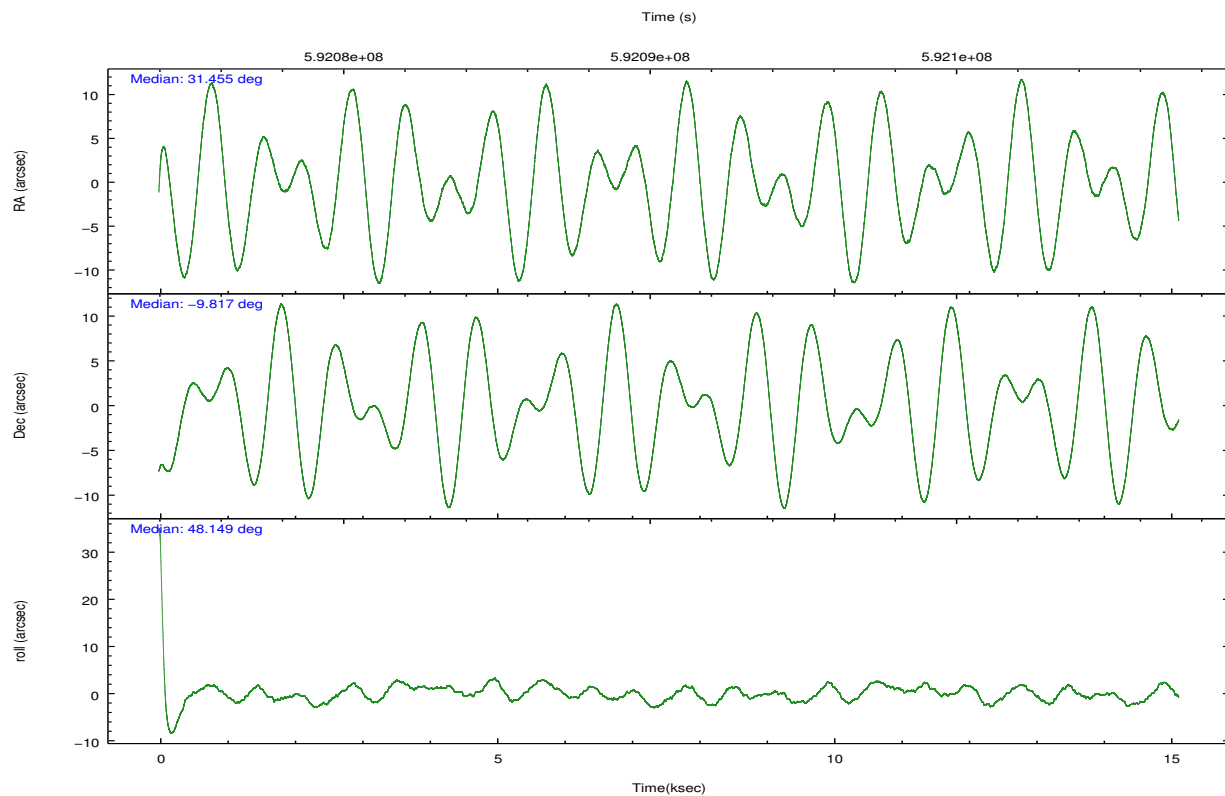
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	4375	4609	10918
	4%	3%	8%
grade 1 events	47	174	101
	0%	0%	0%
grade 2 events	2730	11899	8863
	2%	9%	6%
grade 3 events	1154	4599	3919
	1%	3%	2%
grade 4 events	1114	4516	3639
	1%	3%	2%
grade 5 events	4800	12854	7033
	4%	10%	5%
grade 6 events	2658	30522	9636
	2%	23%	7%
grade 7 events	82721	58773	87774
	83%	45%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	31.449202	31.45456364132084	CCD I2 on	N	N
[deg] Pointing Dec	-9.844356	-9.817436163281048	CCD I3 on	N	N
[deg] Pointing Roll	47.998940	48.15651980911169	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	O1	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	O2	Y
[s] Observation start time (MET)	592082855.184000	592081571.32842	CCD S5 on	N	N
Observation start date	2016-10-05T19:26:27	2016-10-05T19:06:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	592097855.184000	592098320.85439	On-chip summing requested	N	N
Observation end date	2016-10-05T23:36:27	2016-10-05T23:45:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



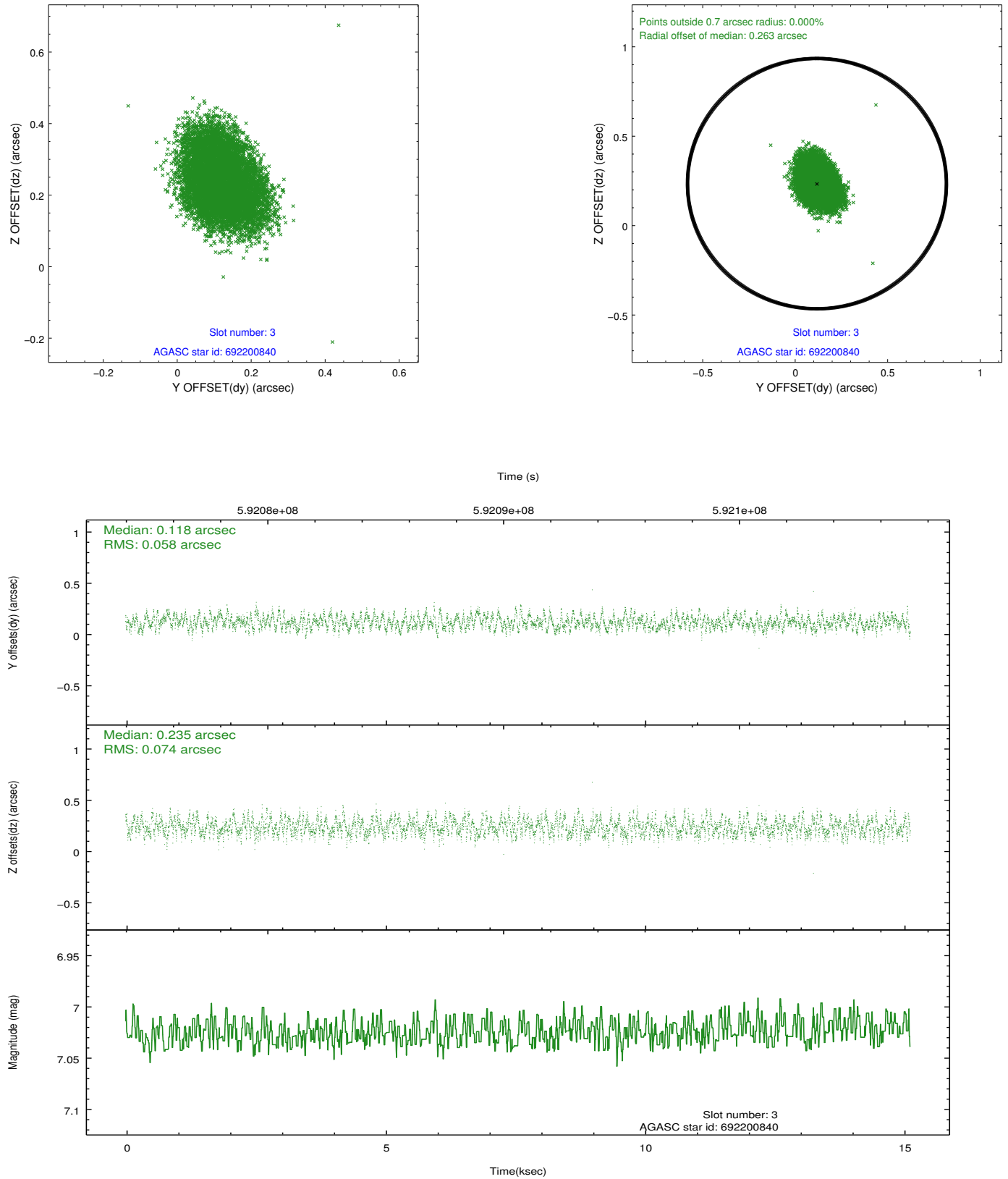


### Slot Statistics

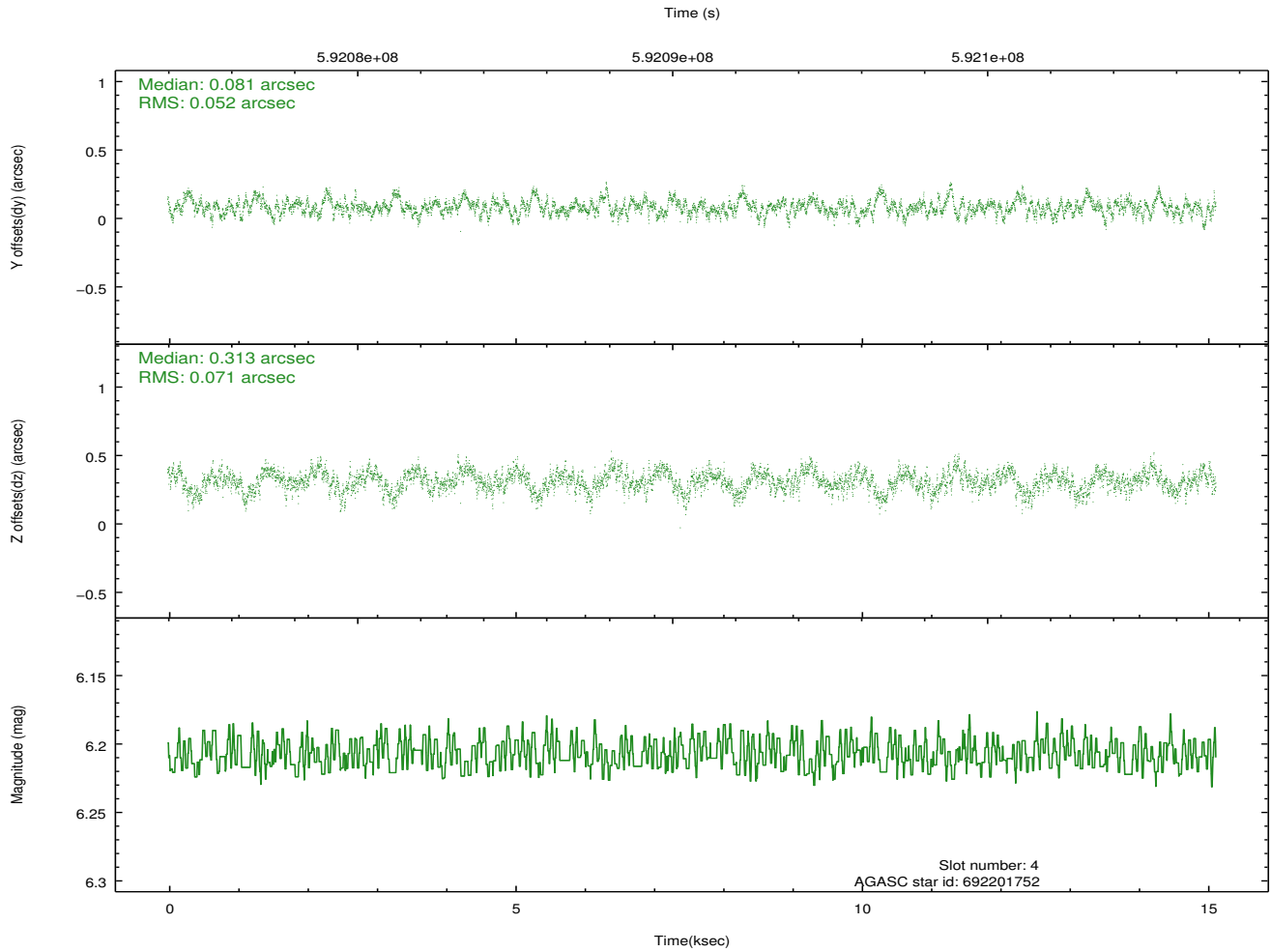
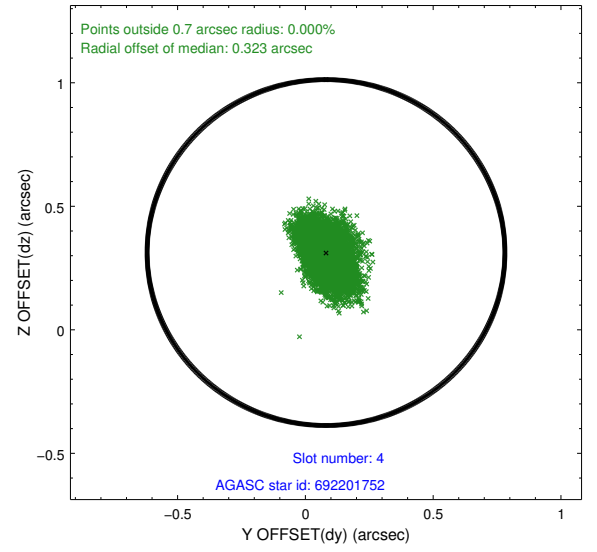
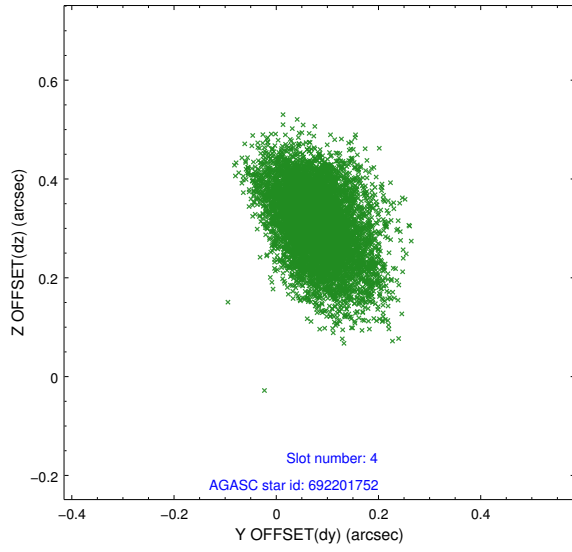
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	3691	-0.178	-0.075	0.025	0.035	0.000000	0.000000	-767.33	-1741.21
1	FID		ACIS-S-4	7.07	3691	0.428	0.106	0.008	0.014	0.000000	0.000000	2146.41	167.15
2	FID		ACIS-S-5	7.08	3691	-0.283	-0.023	0.022	0.034	0.000000	0.000000	-1819.90	161.02
3	GUIDE	used	692200840	7.02	7380	0.118	0.235	0.102	0.157	31.544710	-10.276216	-928.26	-1292.41
4	GUIDE	used	692201752	6.21	7382	0.081	0.313	0.092	0.158	31.523790	-10.212592	-808.10	-1083.58
5	GUIDE	used	692207376	8.40	7376	-0.167	-0.323	0.095	0.150	31.559064	-9.195450	1997.33	1272.27
6	GUIDE	used	692207496	7.34	7381	0.047	0.227	0.087	0.144	32.082363	-10.041338	974.85	-2143.78
7	GUIDE	used	692203568	7.17	7379	-0.085	-0.444	0.096	0.154	30.896611	-9.460810	-288.70	2380.44

## 2.4 Star Slots

### 2.4.1 Slot 3

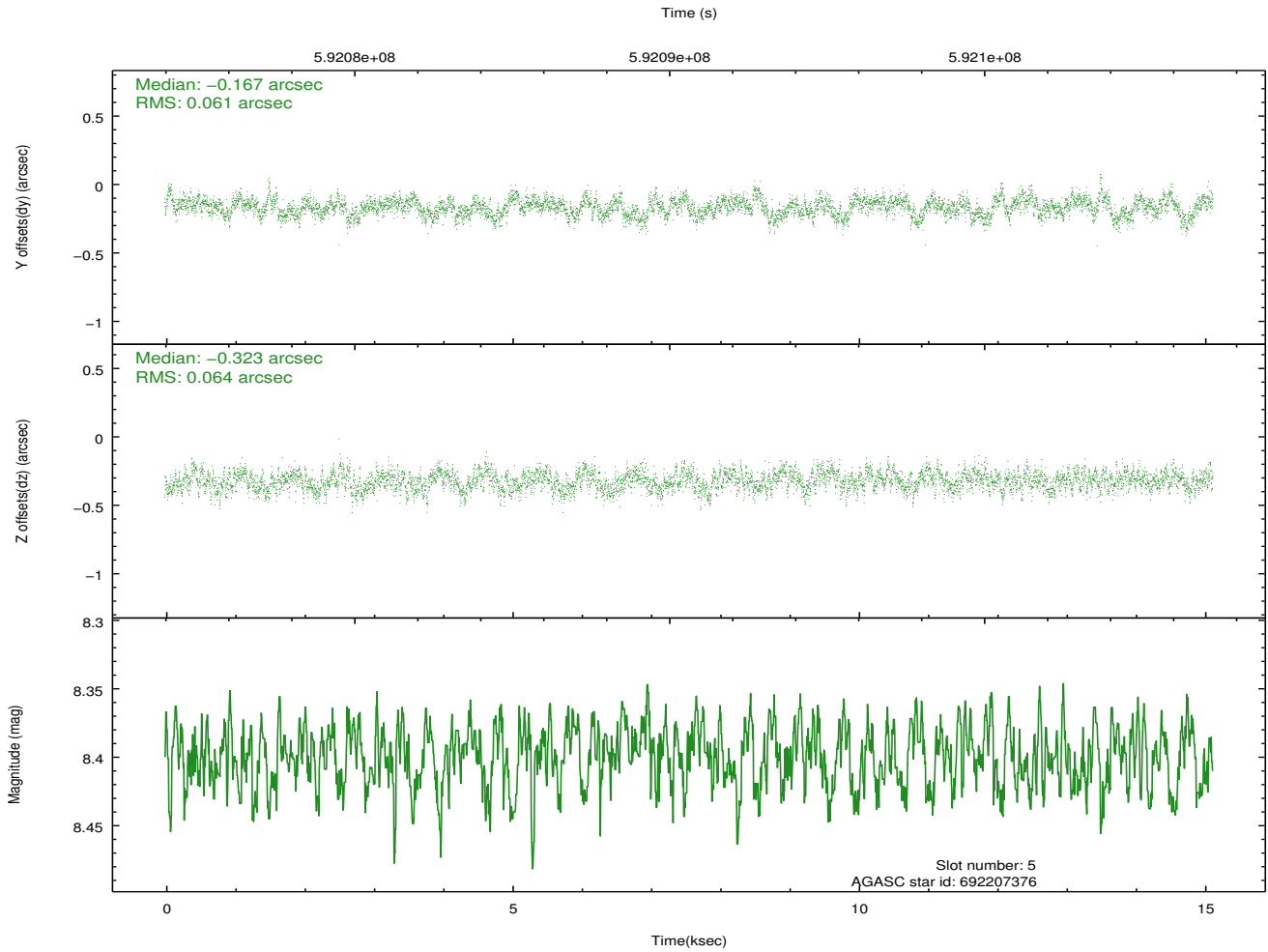
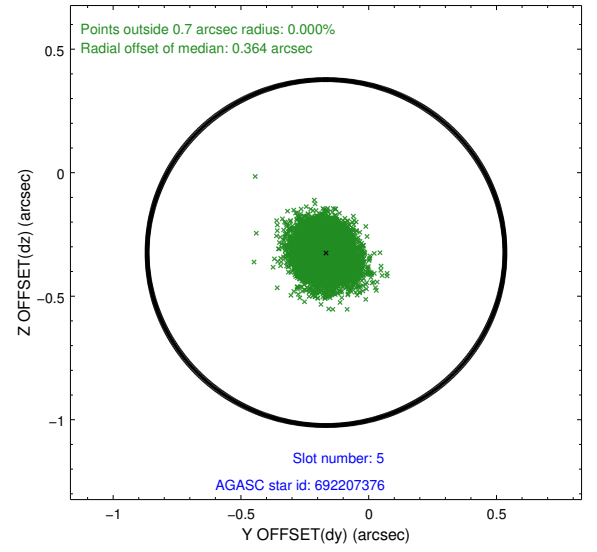
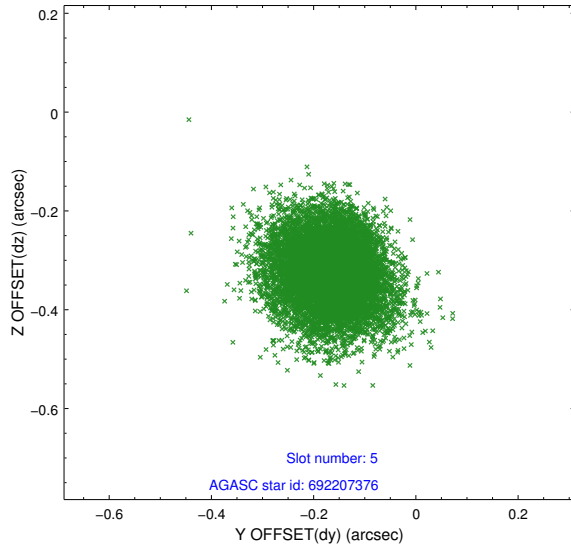


## 2.4.2 Slot 4

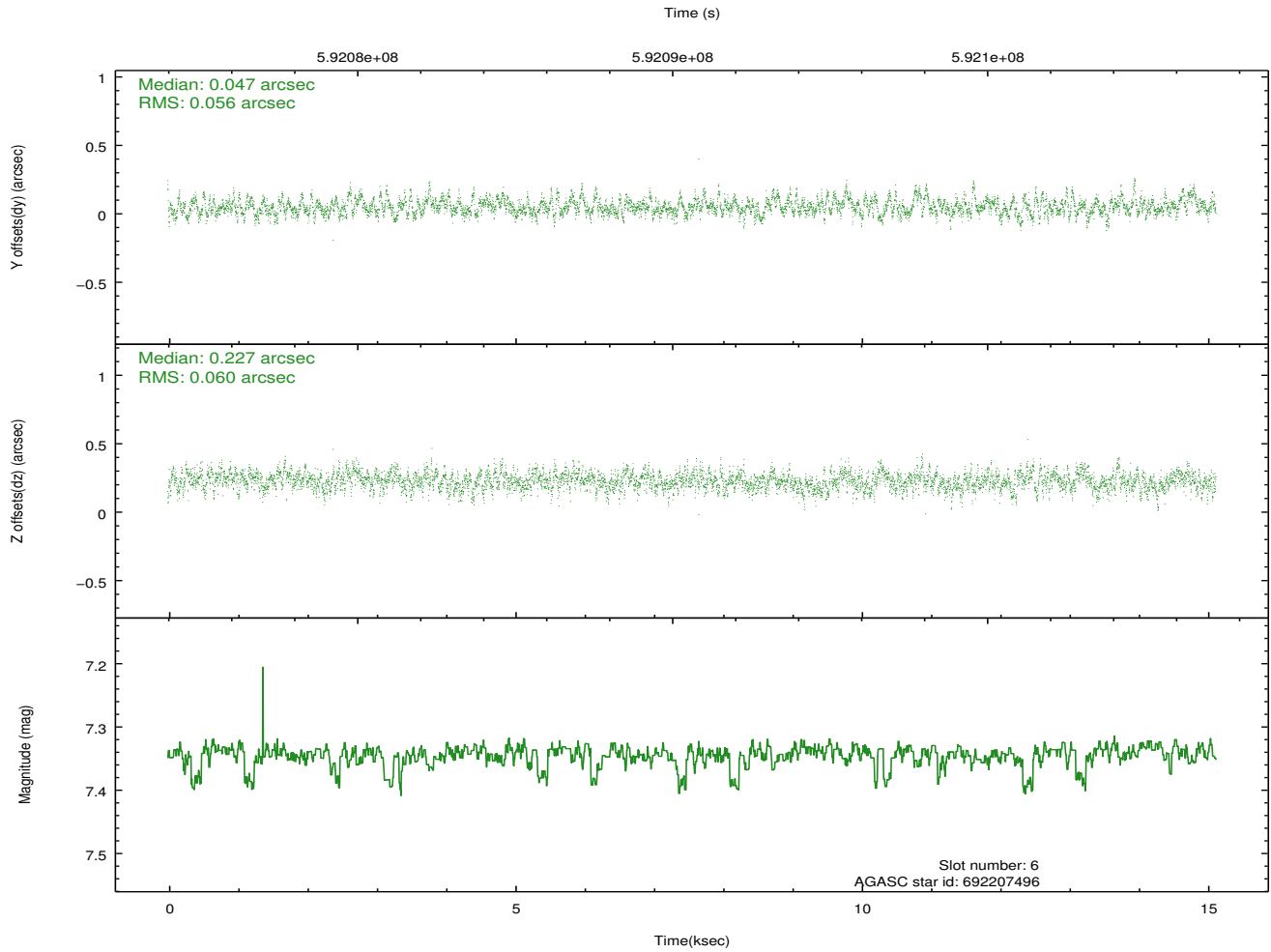
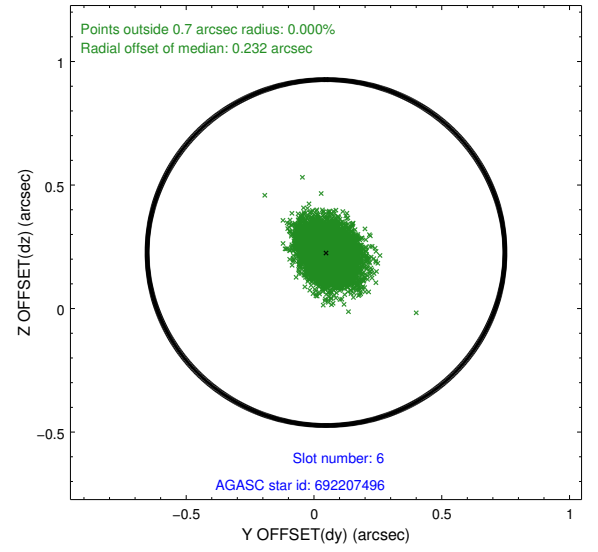
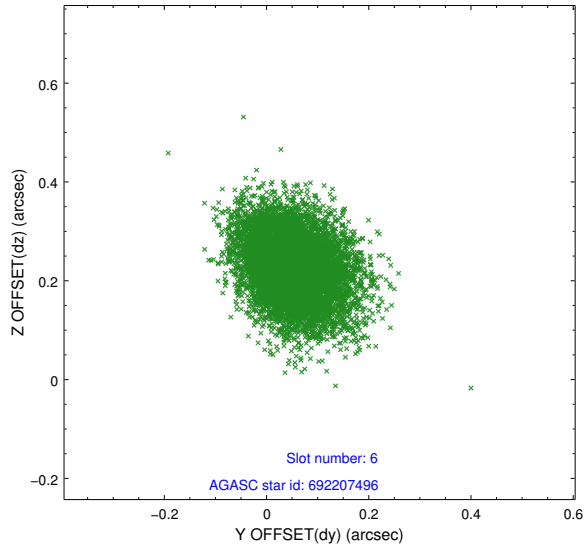




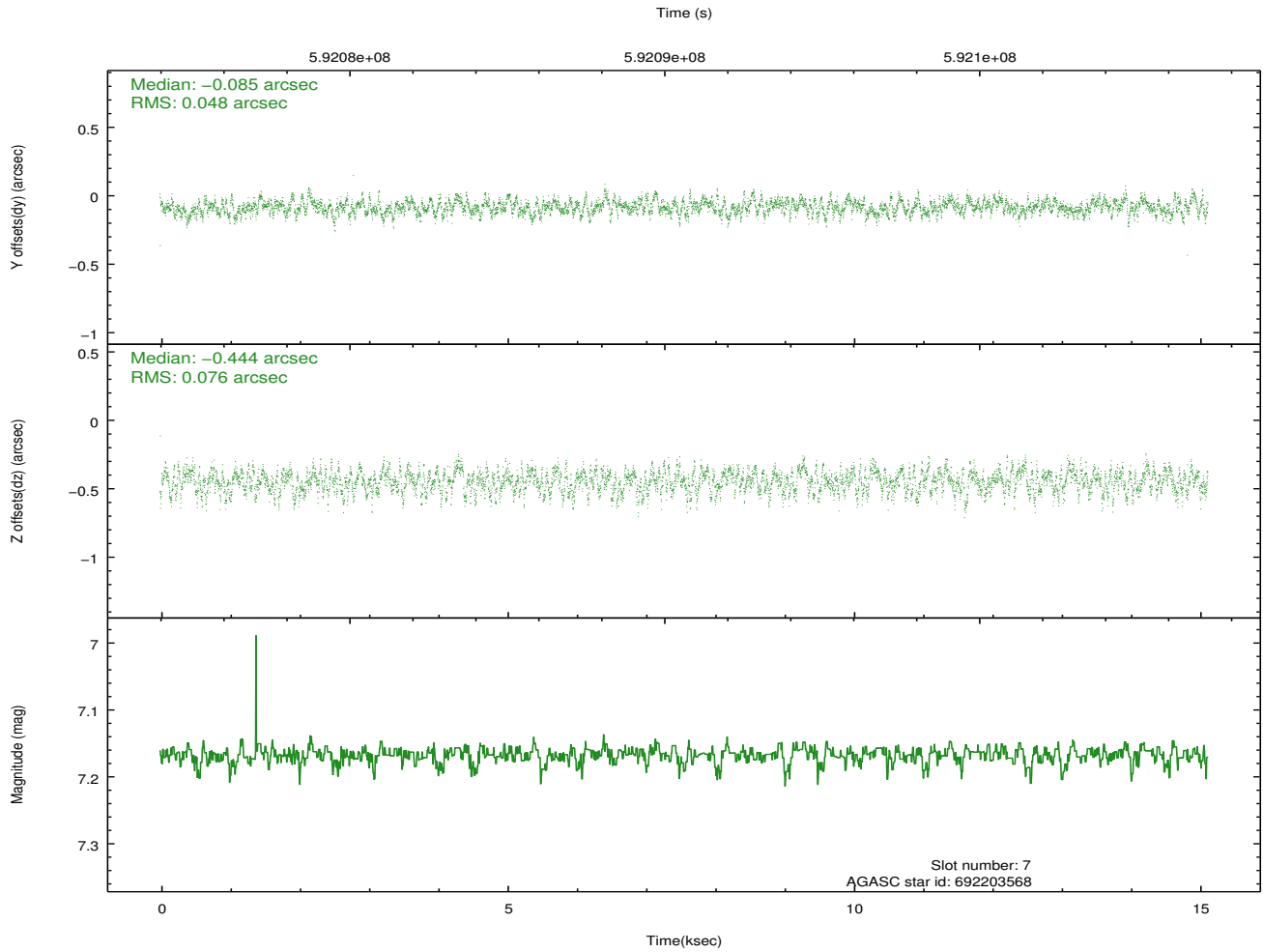
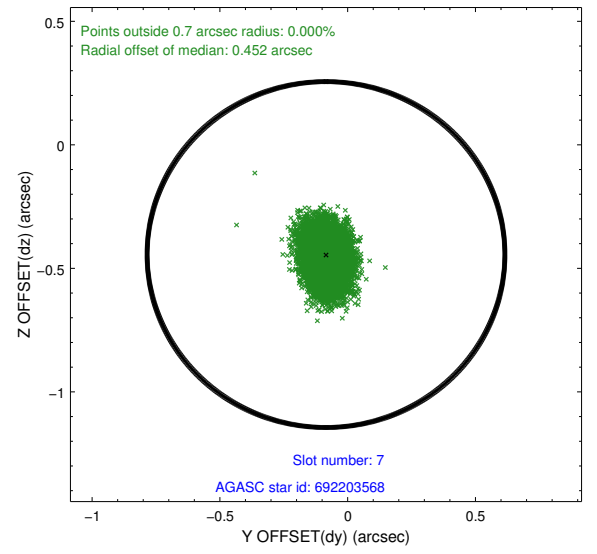
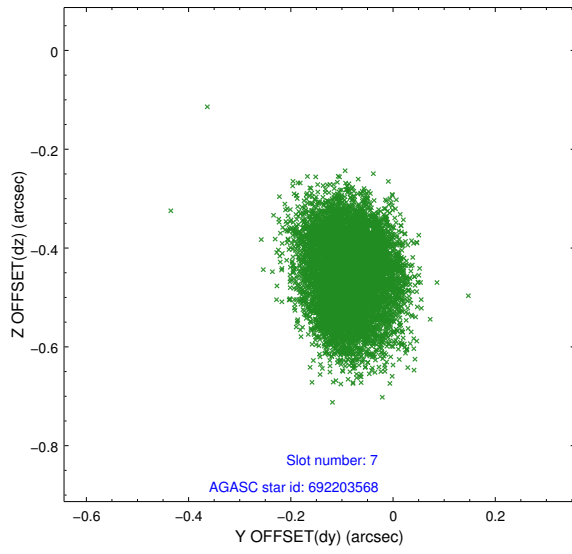
### 2.4.3 Slot 5



## 2.4.4 Slot 6

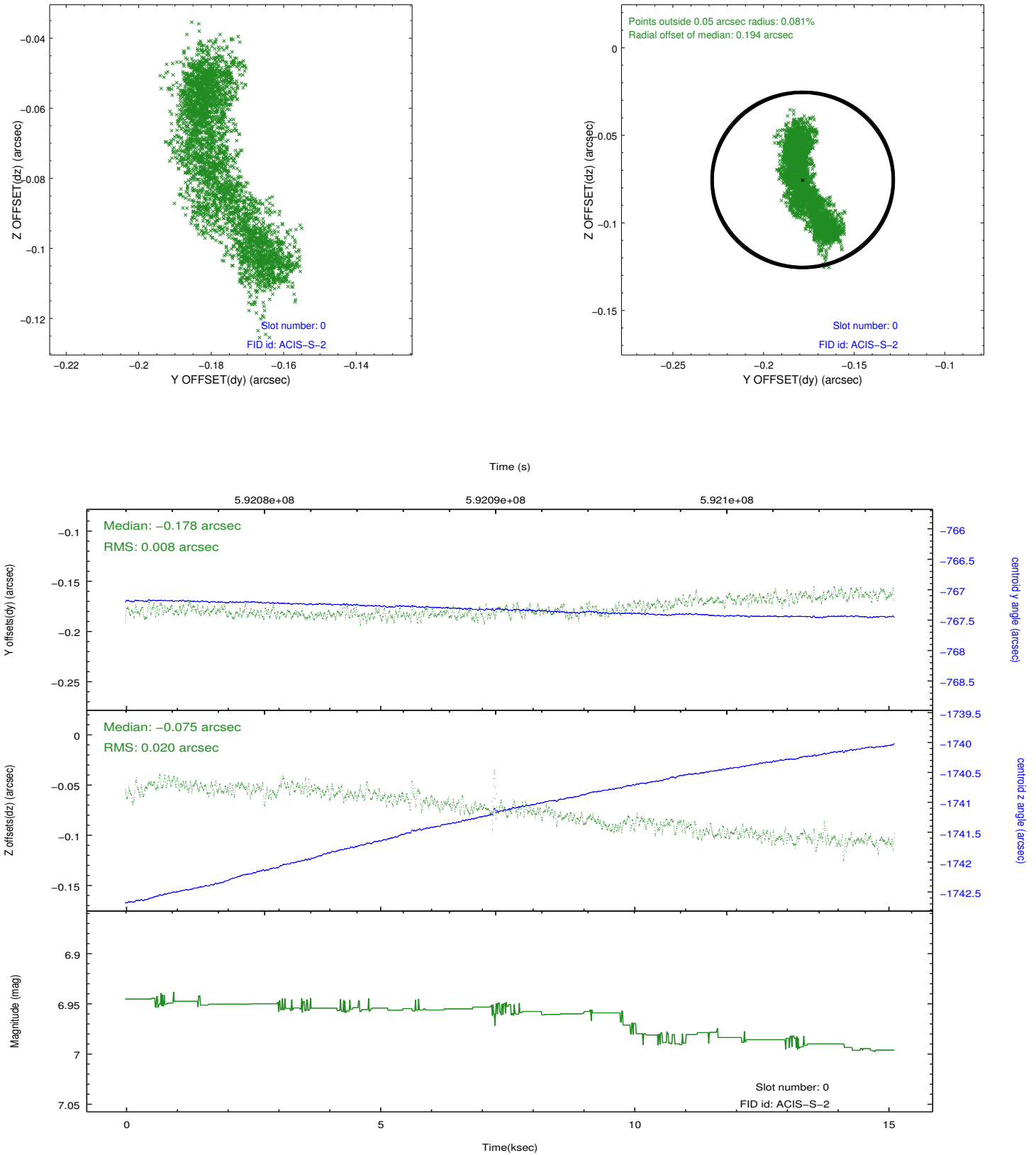


## 2.4.5 Slot 7

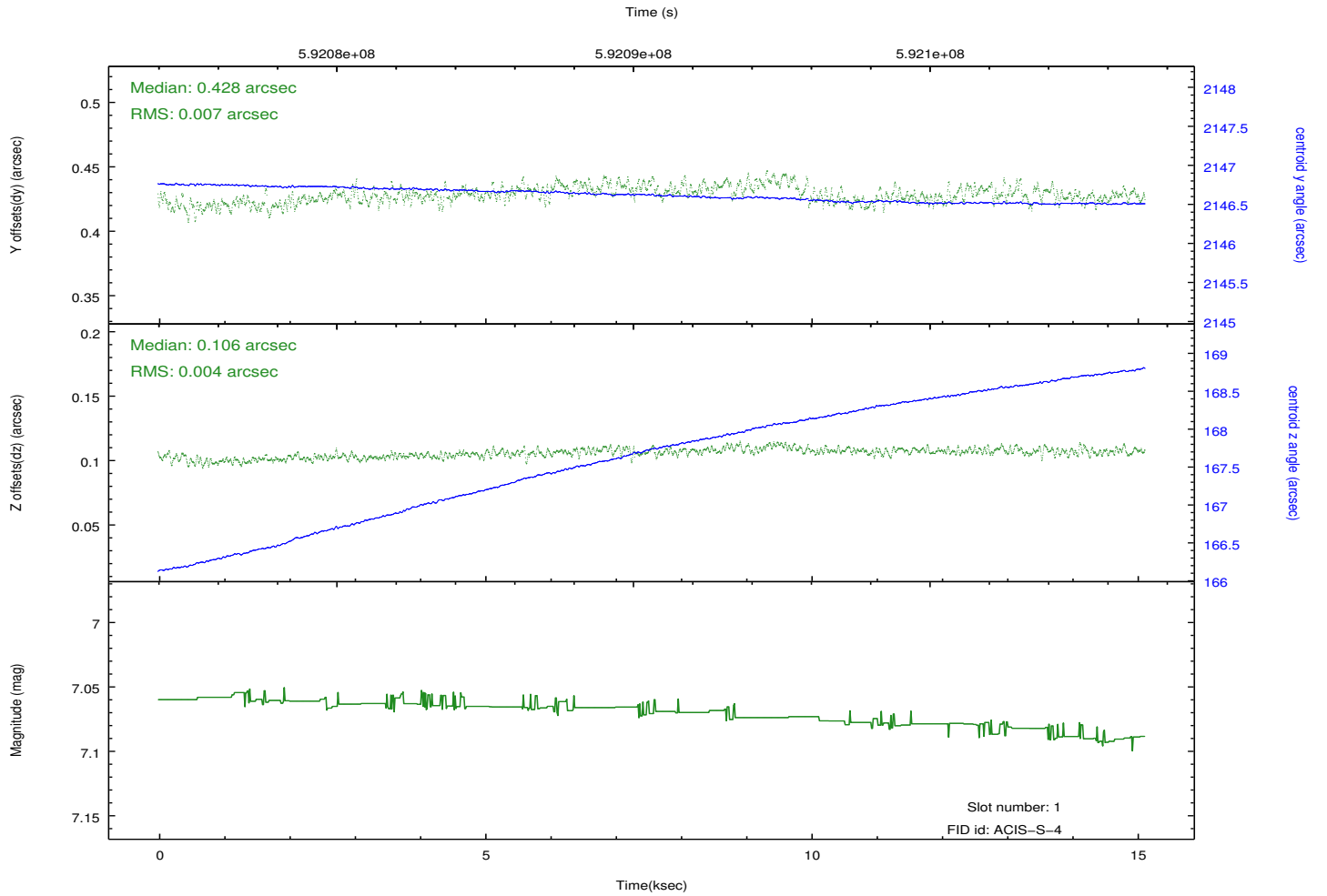
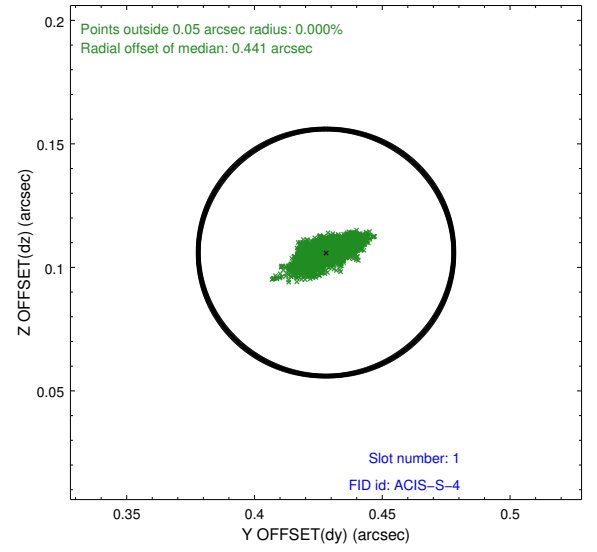
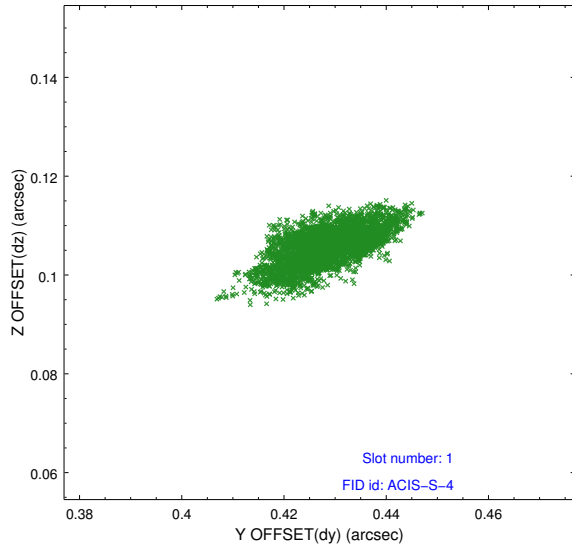


## 2.5 FID Slots

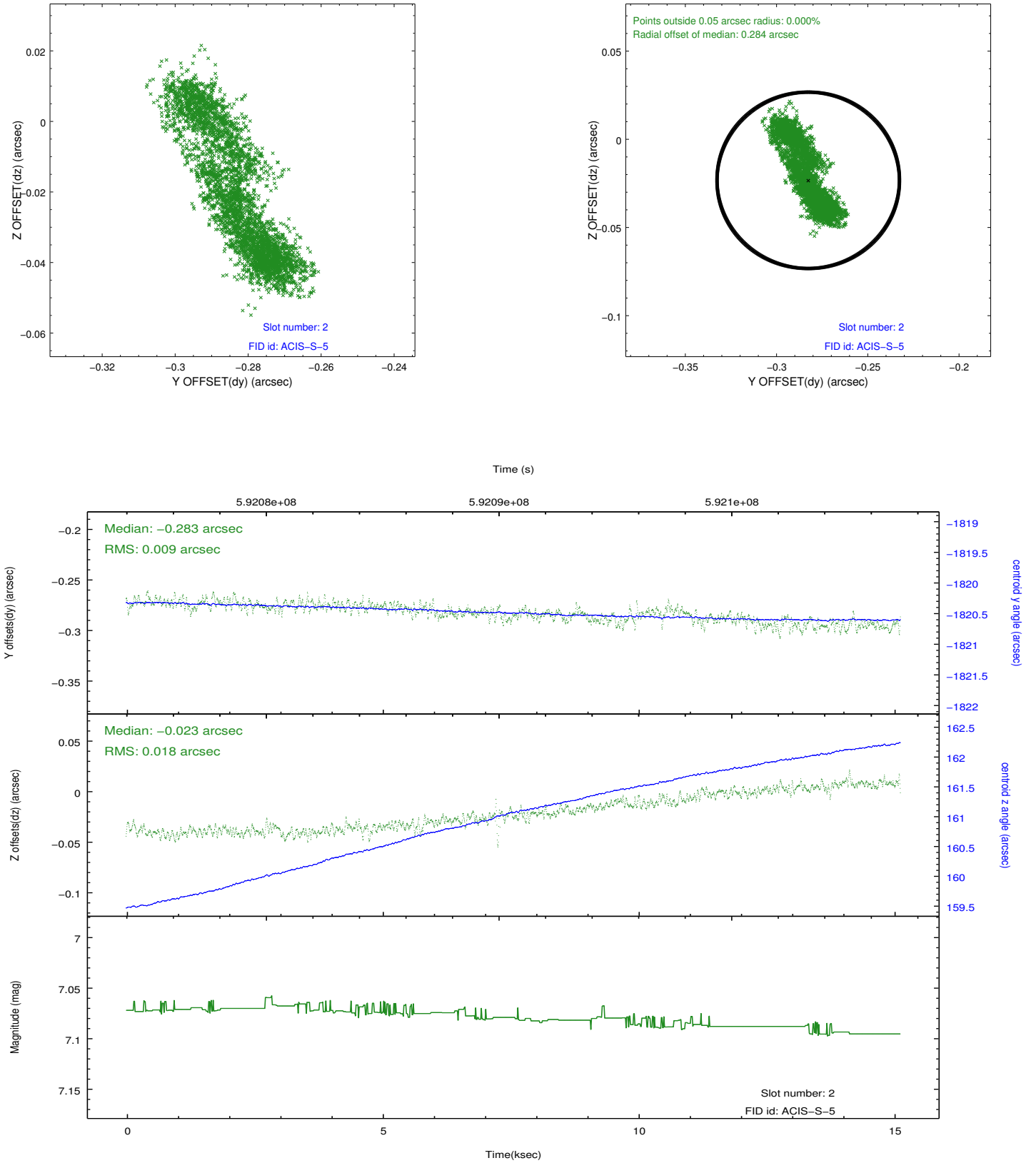
### 2.5.1 Slot 0



## 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)	2016.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.078278644919

### **A.2 Comments**