

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 22065 - L2 Version 1  
Chandra X-Ray Center

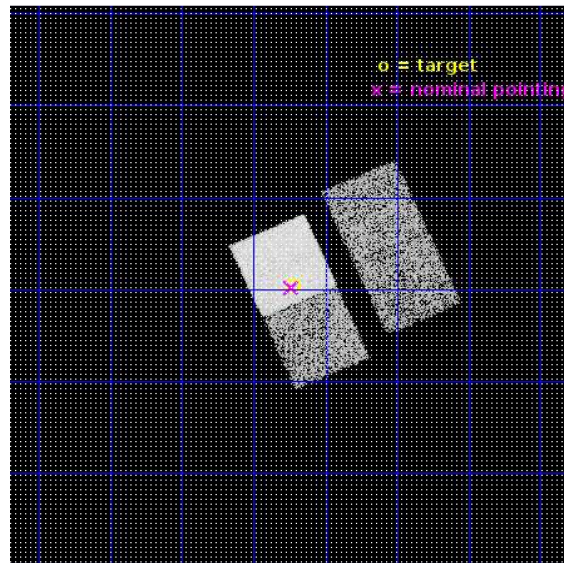
L2 Processing Date : Jul 28 2019

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# 1 Front

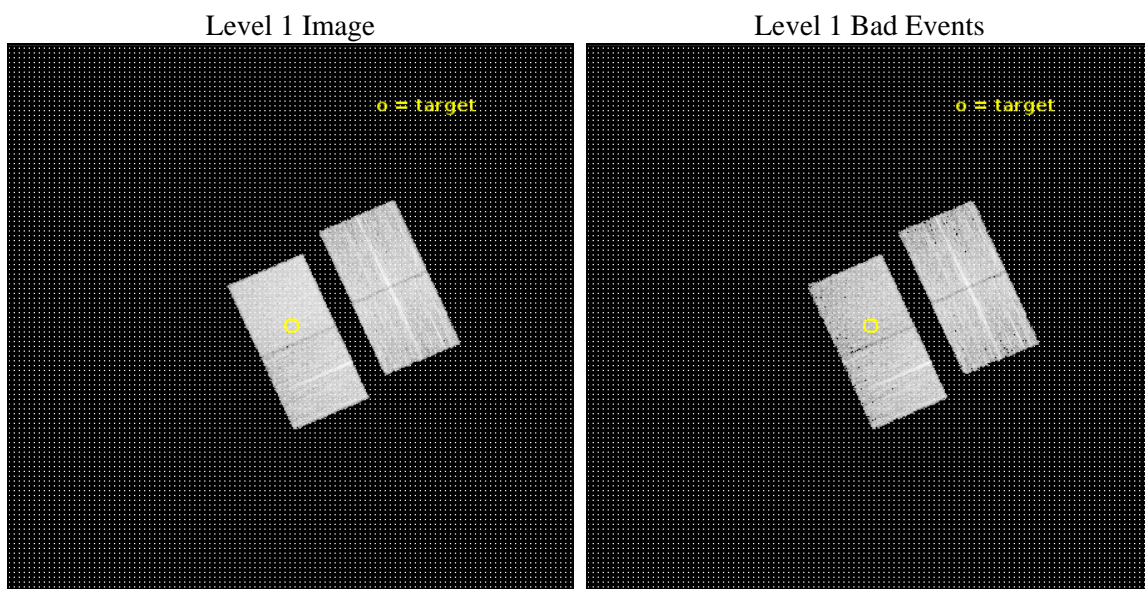
seq_num	703854	Sequence number
obs_id	22065	Observation id
title	Confirming the nature of IMBHs selected from the SIBLING survey	Pro
observer	Paulina Lira	Principal investigator
object	SDSS J1135+0140	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.806833	Observer's specified target RA [deg]
dec_targ	1.672667	Observer's specified target Dec [deg]
ra_nom	173.80933806134	Nominal RA [deg]
dec_nom	1.6696751722381	Nominal Dec [deg]
roll_nom	246.11489959884	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8065.1421971321	Sum of GTIs [s]
livetime	7959.7651768553	Livetime [s]
ontime2	8061.878057003	Sum of GTIs [s]
ontime3	8065.0601171255	Sum of GTIs [s]
ontime6	8065.1011571884	Sum of GTIs [s]
ontime7	8065.1421971321	Sum of GTIs [s]
l2events	50410	Number of level 2 events



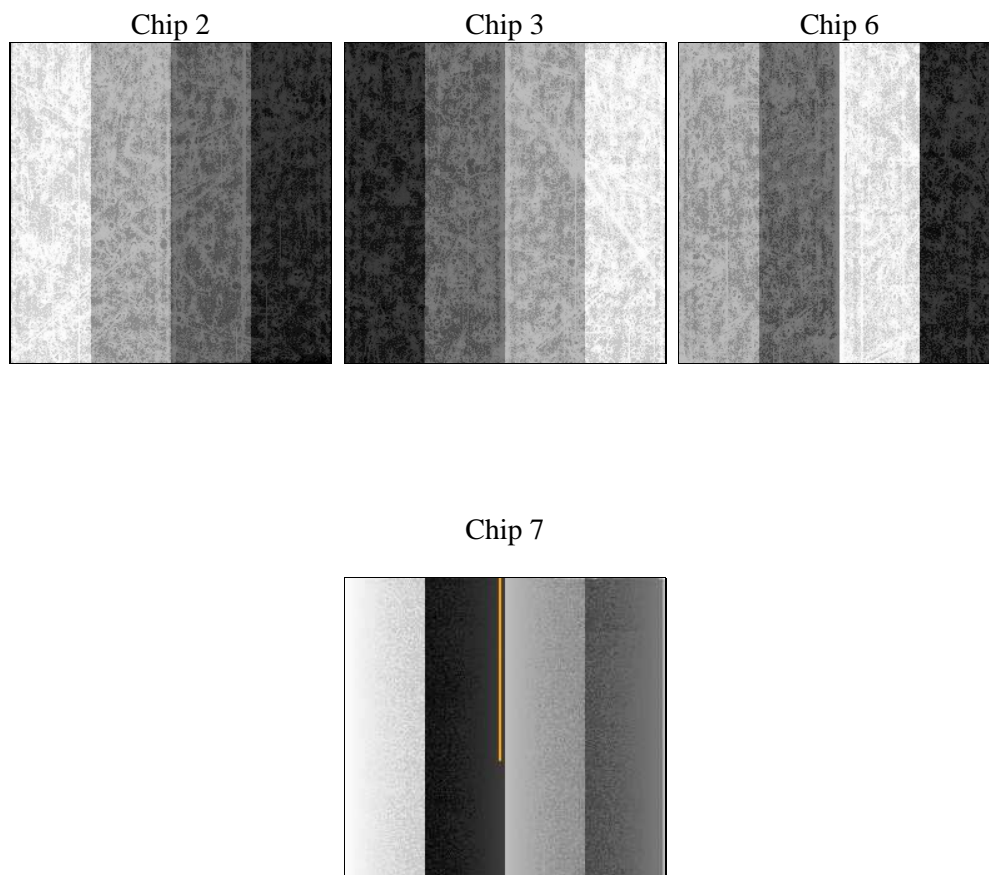
## 2 OBI

### 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	10.8	Processing system revision	ontime	8065.1421971321	Sum of GTIs [s]
caldsver	4.8.3.1	&#160	ontime2	8061.878057003	Sum of GTIs [s]
date	2019-07-28T21:49:45	Date and time of file creation	ontime3	8065.0601171255	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8065.1011571884	Sum of GTIs [s]
			ontime7	8065.1421971321	Sum of GTIs [s]
			l1events	267672	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	63821	59970	64107	79774
rejected events	57488	53670	57258	45543
rejected %	90%	89%	89%	57%

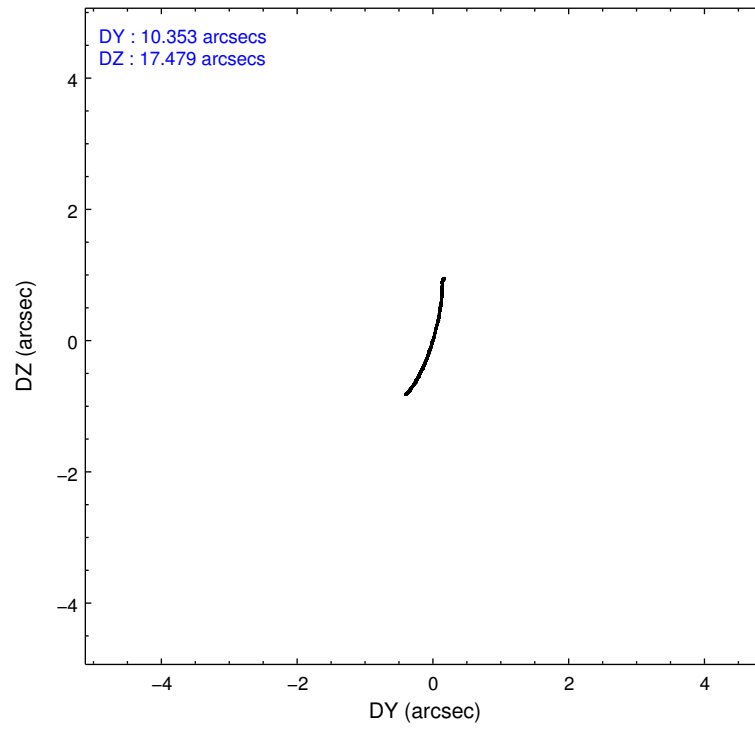
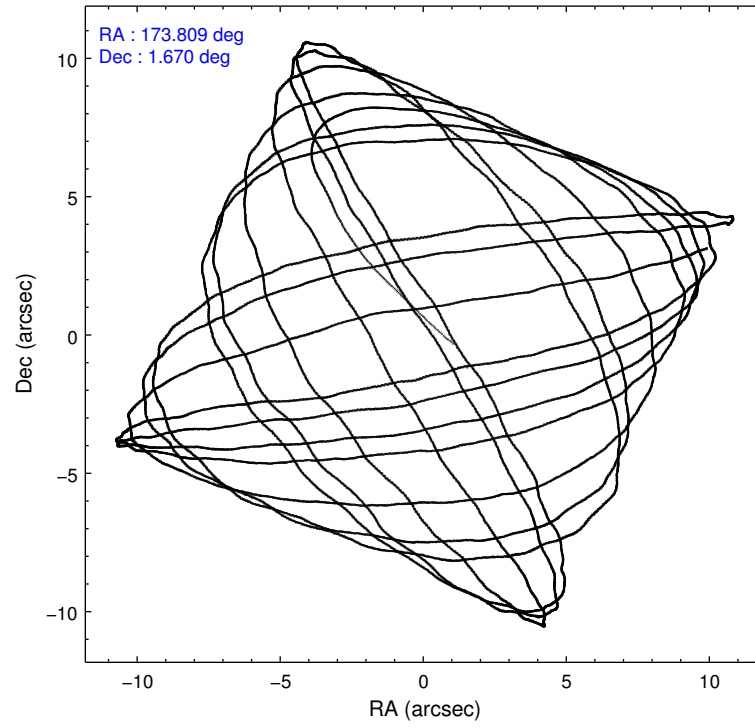
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2201	2142	2006	2807
	3%	3%	3%	3%
grade 1 events	30	21	31	114
	0%	0%	0%	0%
grade 2 events	1536	1474	1869	7192
	2%	2%	2%	9%
grade 3 events	640	687	541	2605
	1%	1%	0%	3%
grade 4 events	637	615	583	2508
	0%	1%	0%	3%
grade 5 events	2348	2755	2585	7695
	3%	4%	4%	9%
grade 6 events	1324	1383	1851	19136
	2%	2%	2%	23%
grade 7 events	55105	50893	54641	37717
	86%	84%	85%	47%

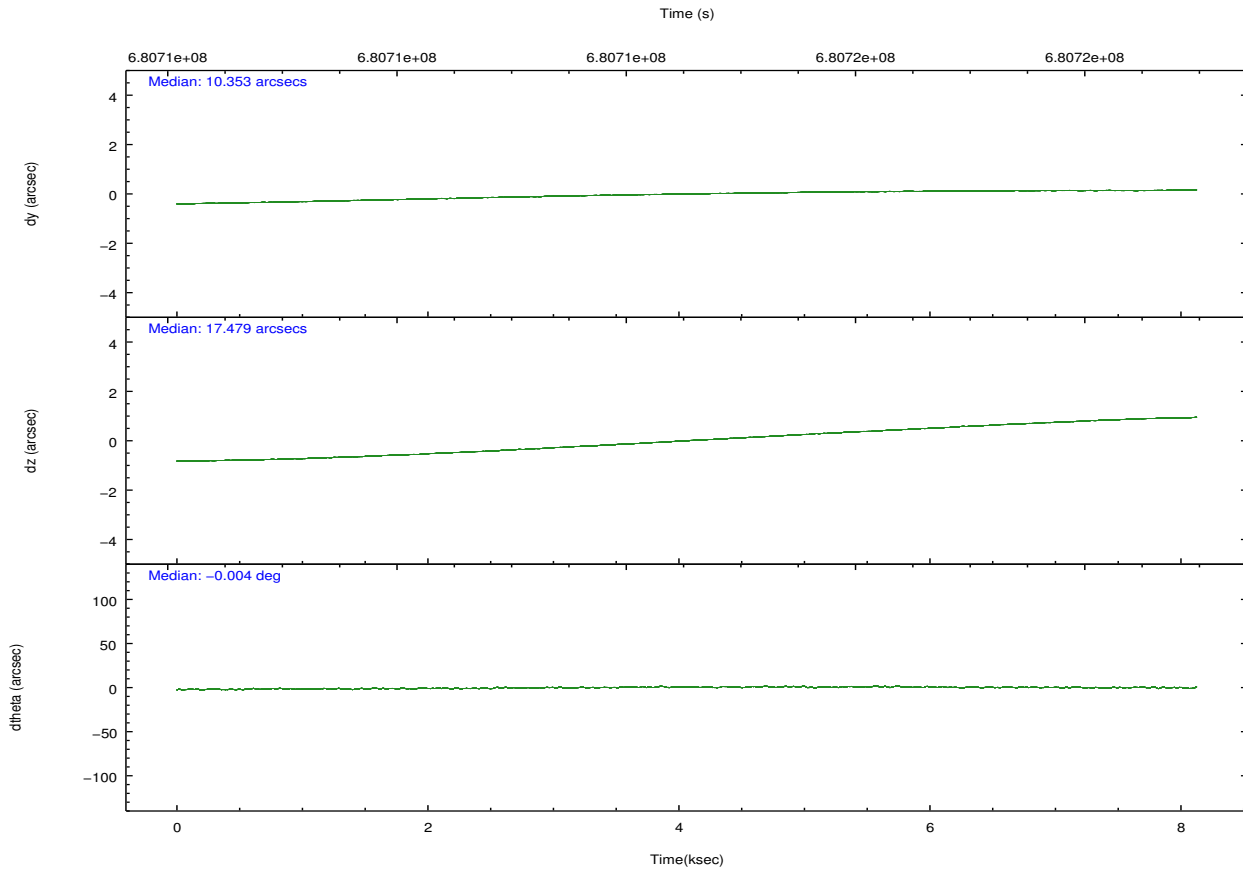
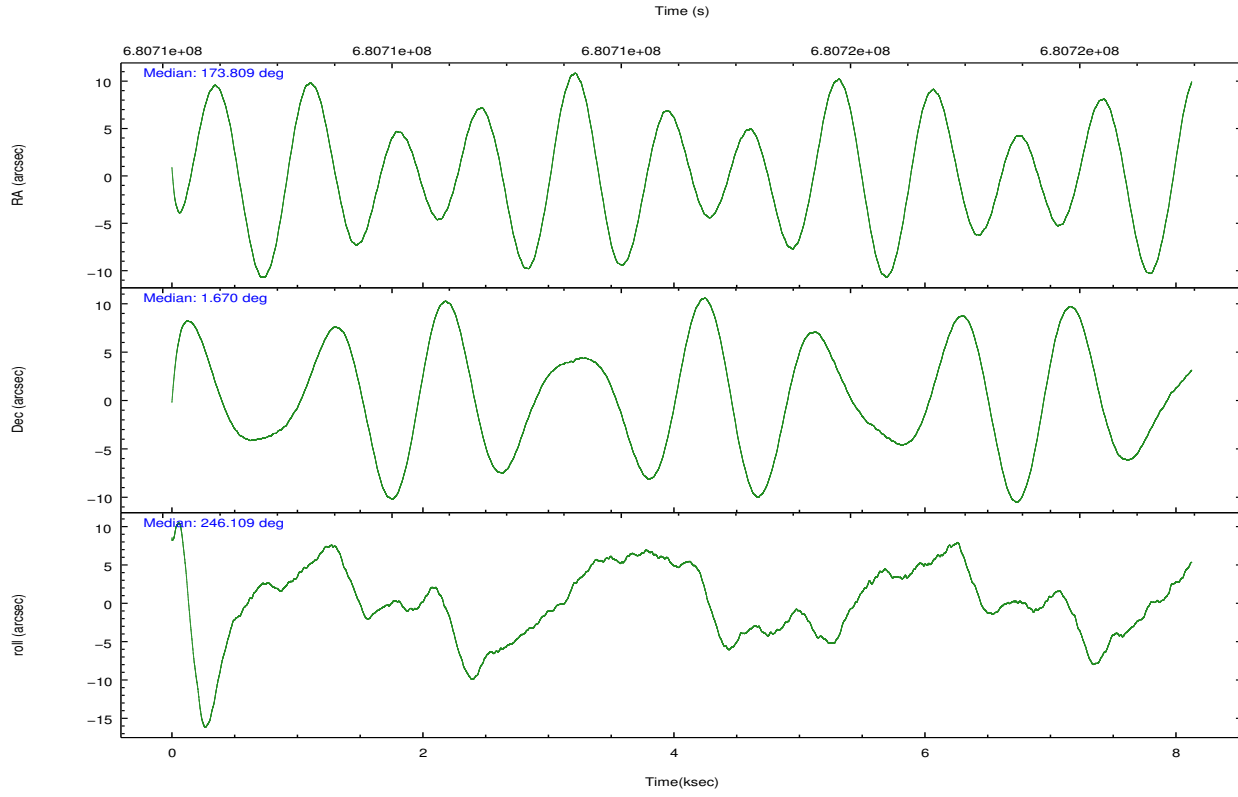


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	173.806054	173.8093380613359	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.696901	1.669675172238096	Alternating exposures requested	N	N
[deg] Pointing Roll	245.958389	246.1148995988447	[s] Primary exposure time	0.000000	3.1
[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)	680710589.184000	680709405.49114			
Observation start date	2019-07-28T14:15:20	2019-07-28T13:56:45			
[s] Observation end time (MET)	680718589.184000	680719551.96675			
Observation end date	2019-07-28T16:28:40	2019-07-28T16:45:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect



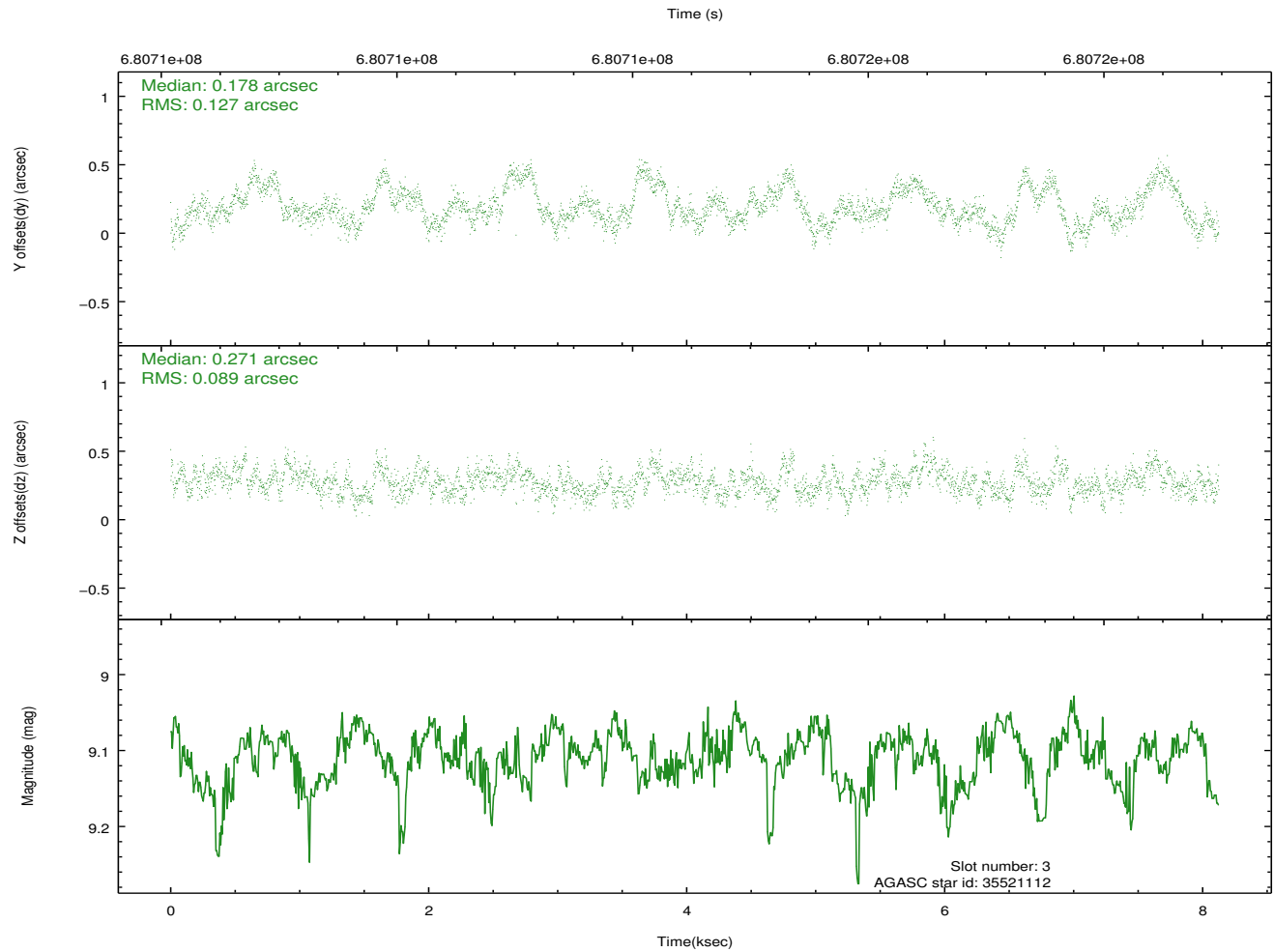
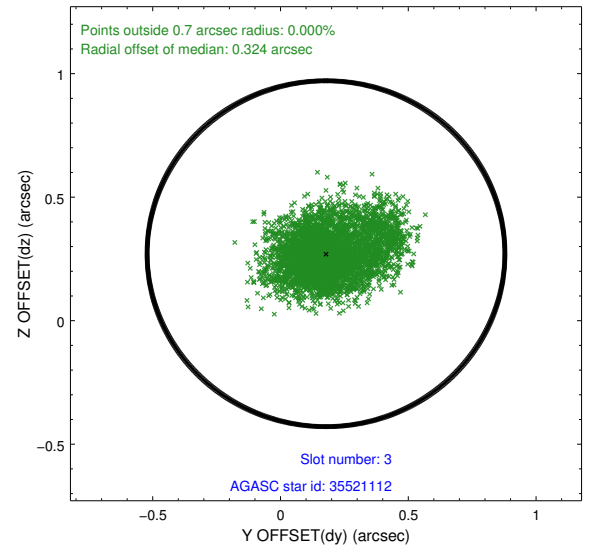
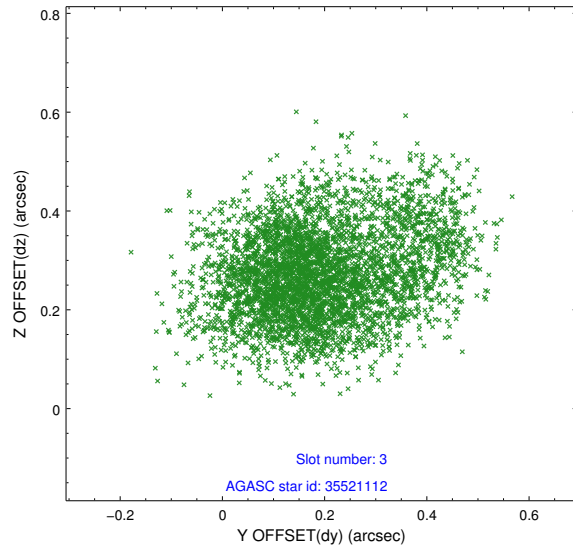


Slot Statistics

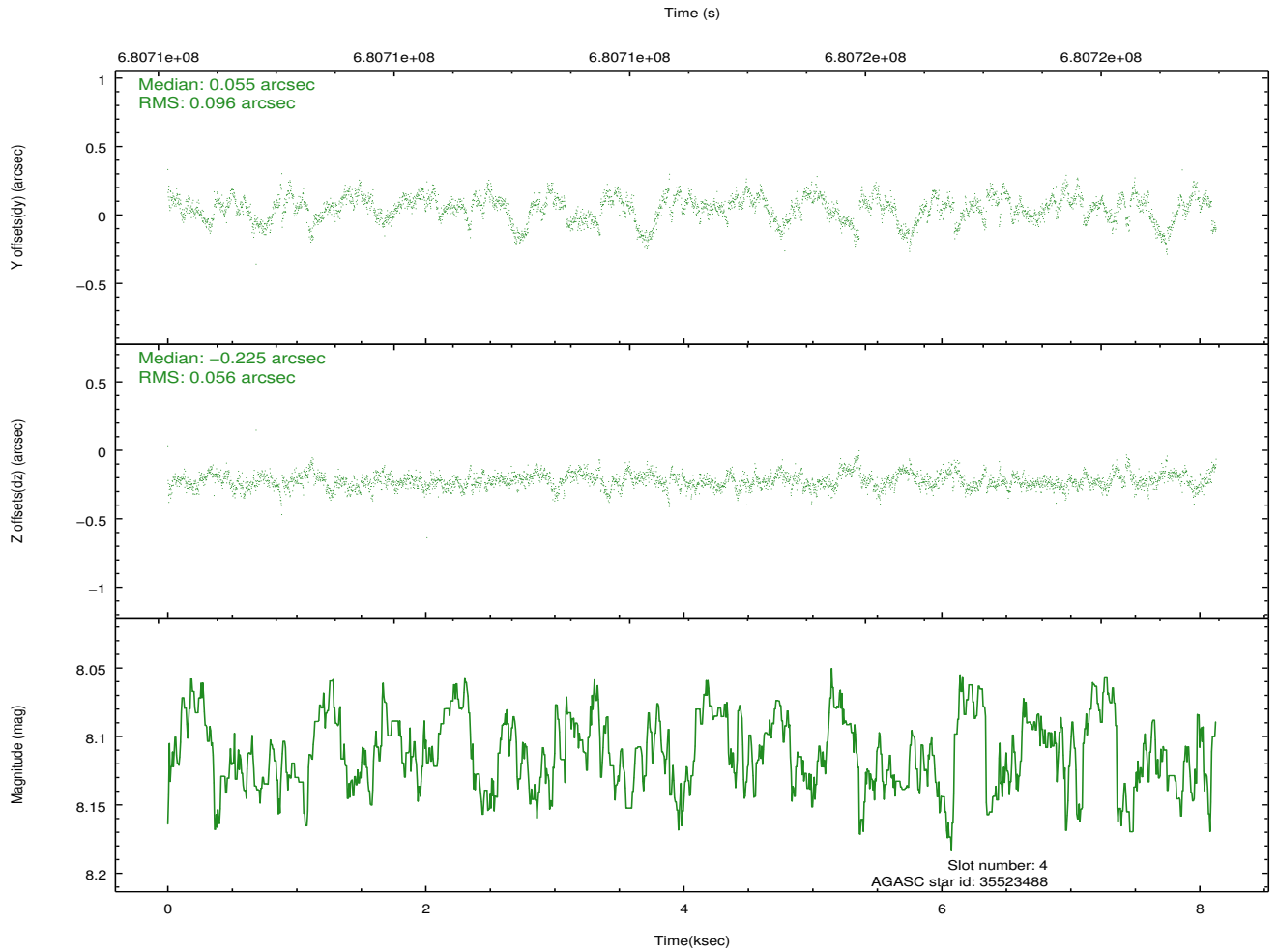
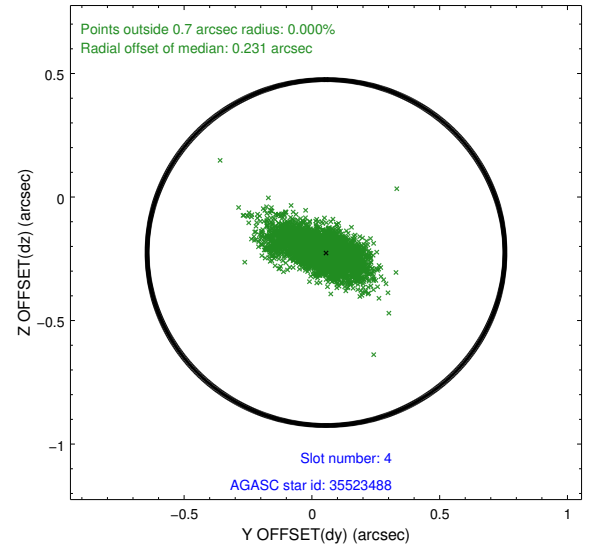
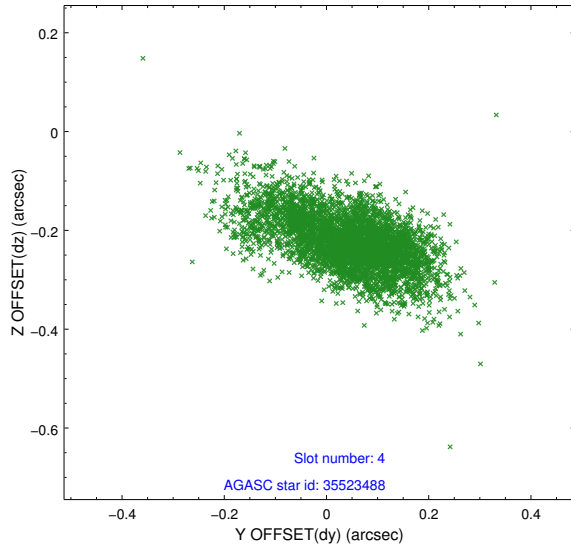
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.39	1982	1.000	-0.177	-0.222	0.012	0.020	0.000000	0.000000	49.88	-1868
1	FID		ACIS-S-4	7.25	1982	1.000	0.627	0.197	0.008	0.017	0.000000	0.000000	2150.86	168
2	FID		ACIS-S-5	7.22	1982	1.000	-0.477	0.033	0.008	0.014	0.000000	0.000000	-1815.58	163
3	GUIDE	used	35521112	9.11	3960	1.000	0.178	0.271	0.164	0.277	173.413257	2.119825	-814.01	-1911
4	GUIDE	used	35523488	8.11	3963	1.000	0.055	-0.225	0.110	0.209	173.259338	1.285912	2153.21	-1194
5	GUIDE	used	35523952	8.65	3962	1.000	0.194	-0.243	0.138	0.239	173.151656	1.340213	2134.56	-1628
6	GUIDE	used	35527256	9.34	3959	1.000	-0.291	0.083	0.171	0.305	174.539165	1.926361	-1828.72	2071
7	GUIDE	used	35527592	8.59	3962	1.000	-0.138	0.114	0.111	0.193	174.333458	1.937422	-1564.47	1381

## 2.4 Star Slots

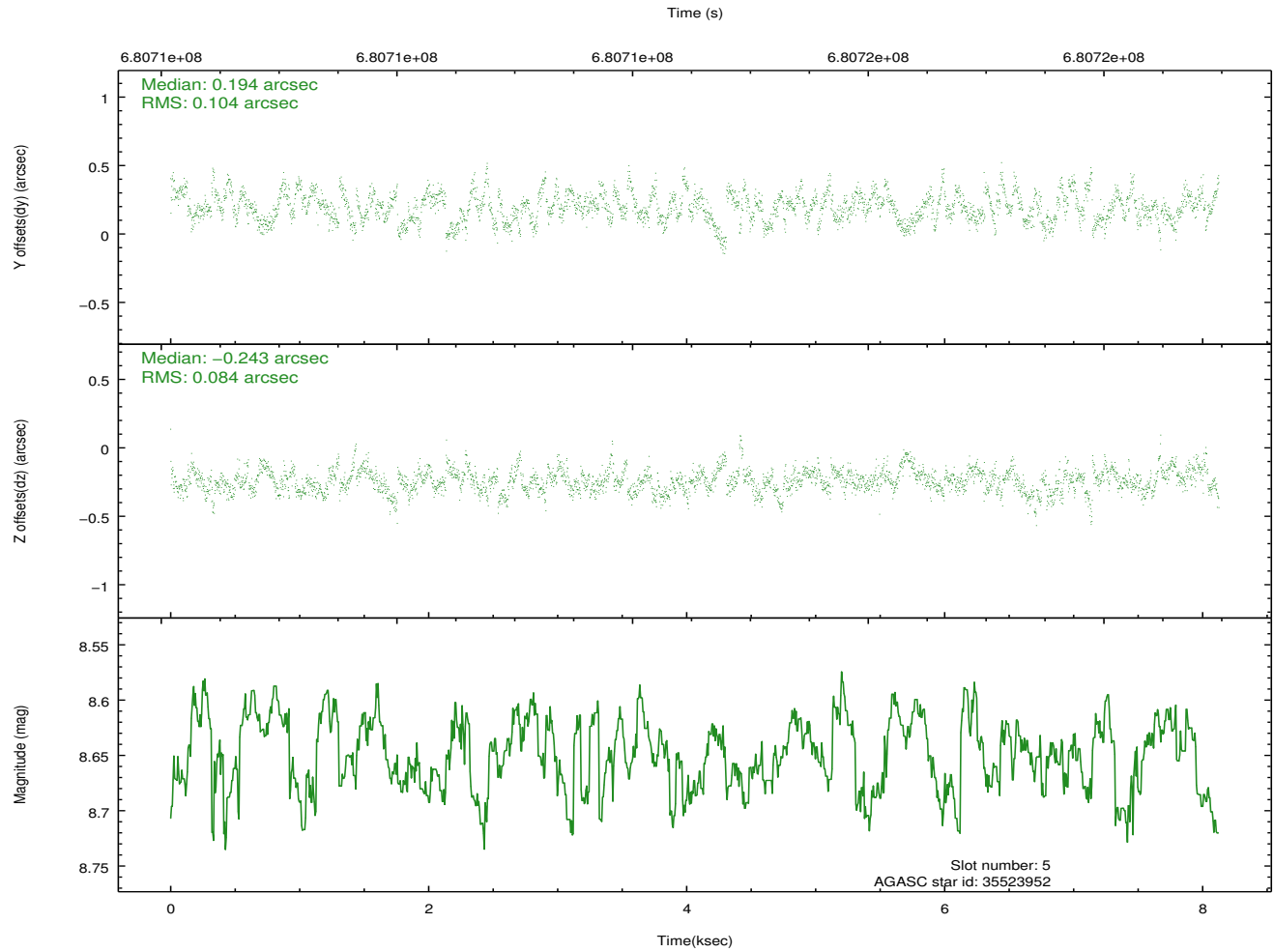
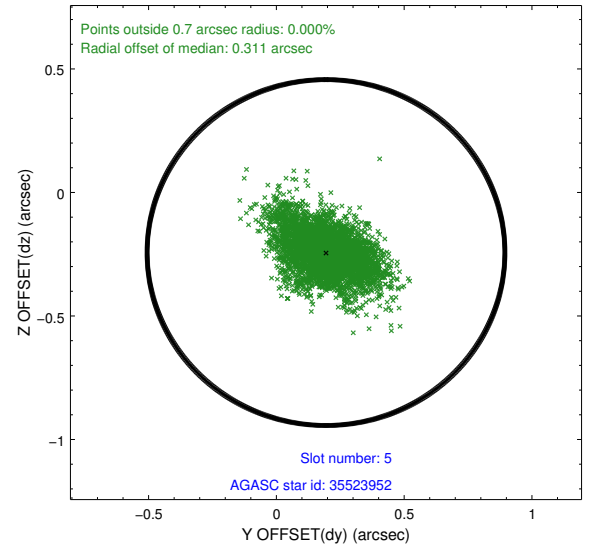
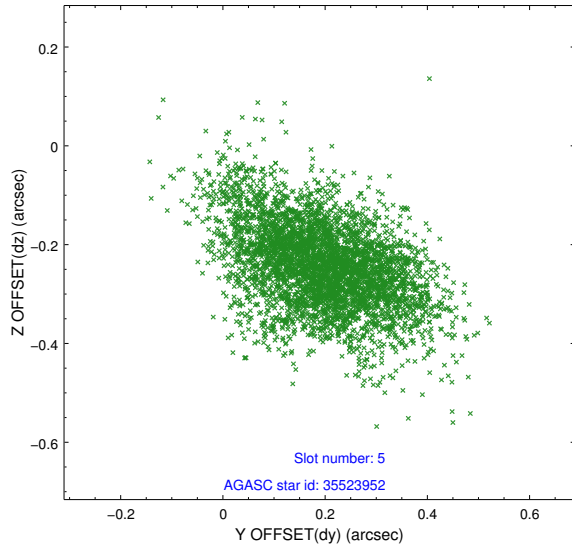
### 2.4.1 Slot 3



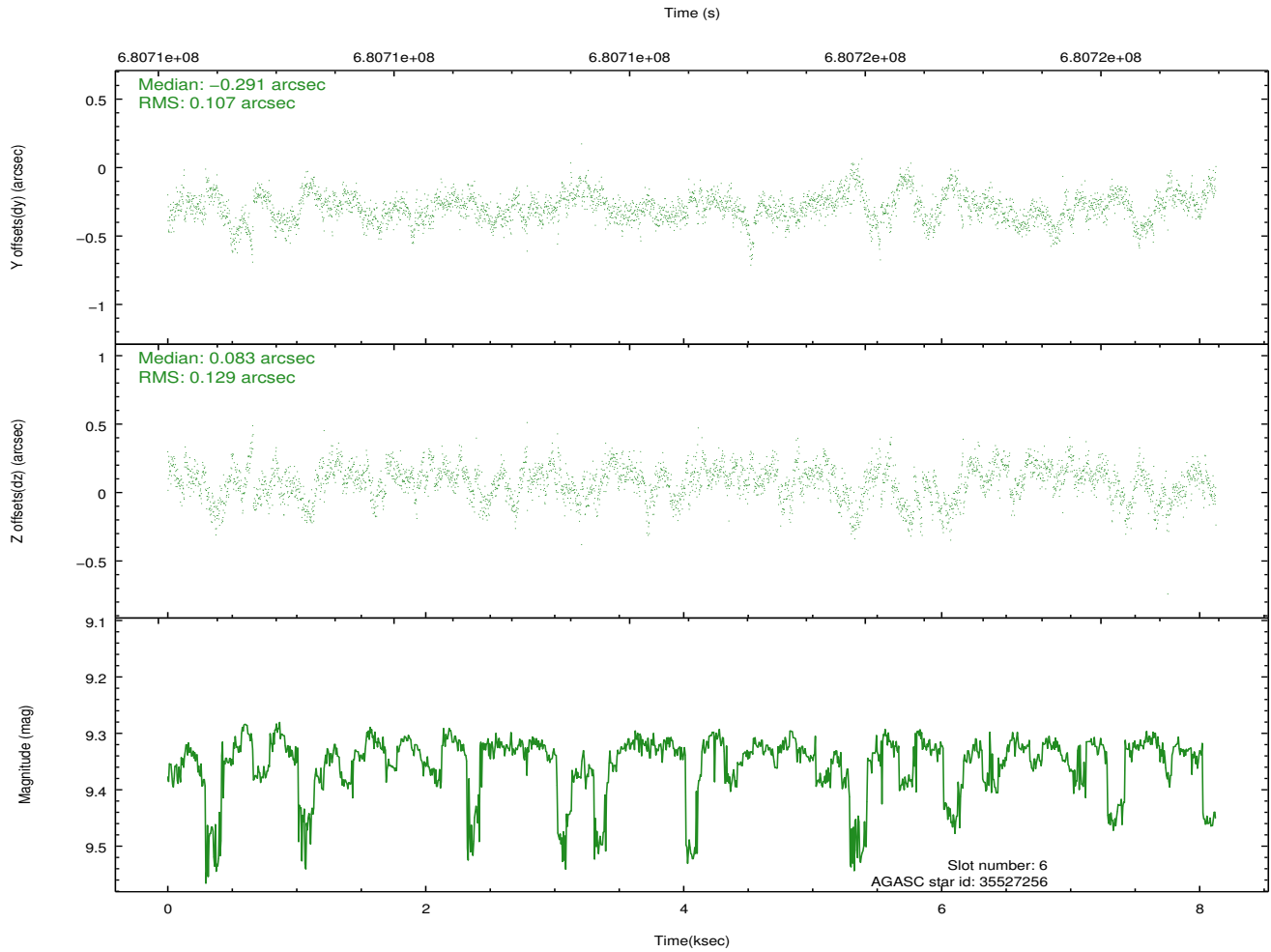
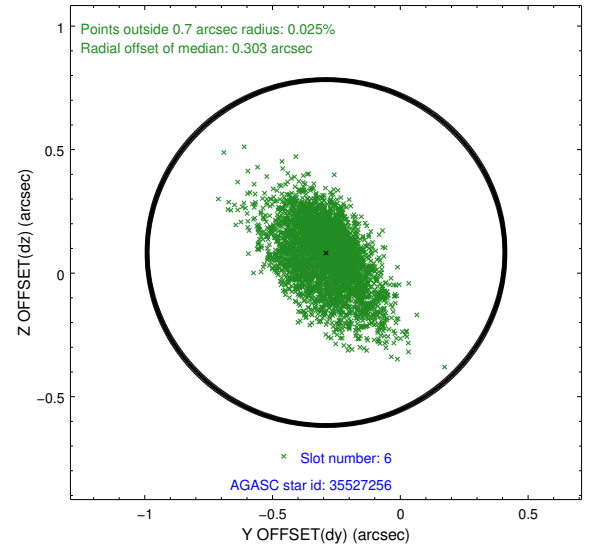
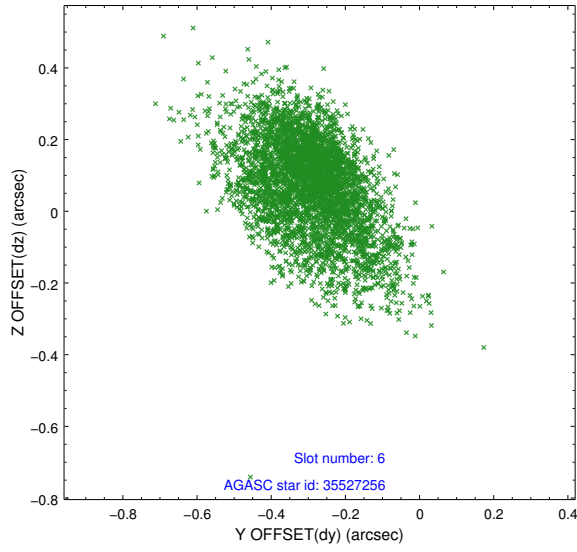
## 2.4.2 Slot 4



### 2.4.3 Slot 5

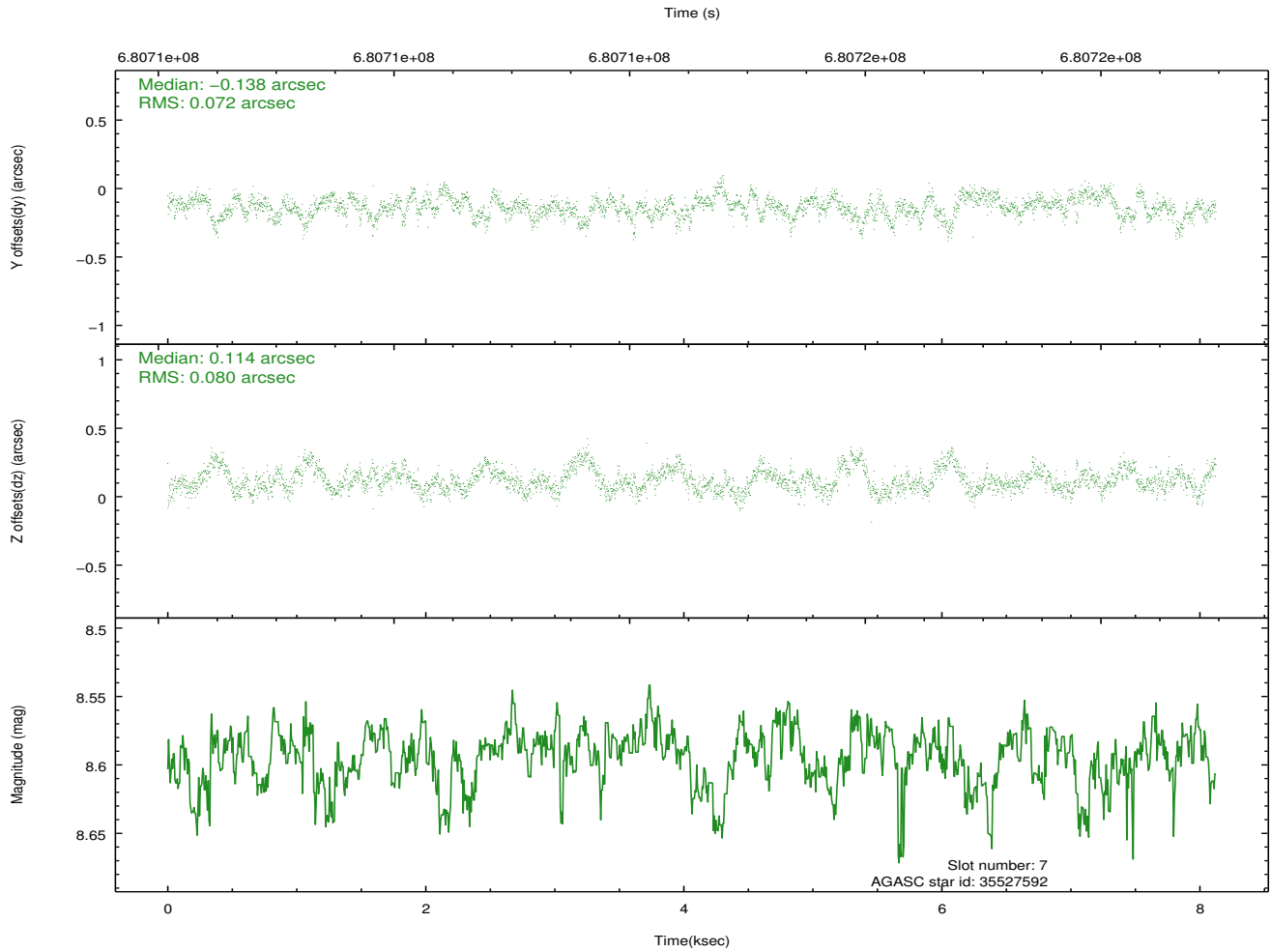
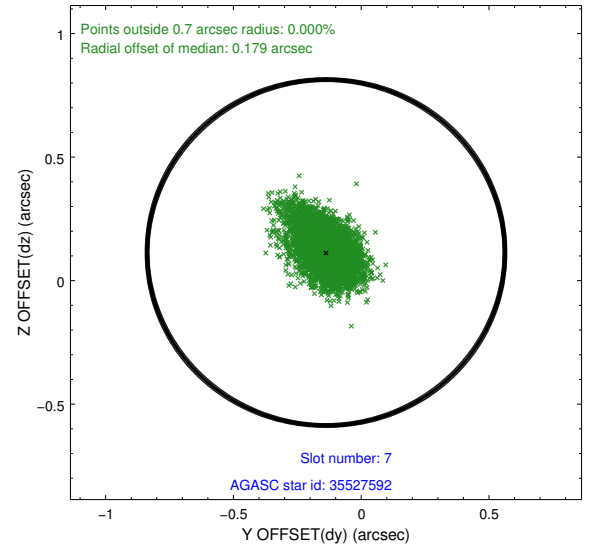
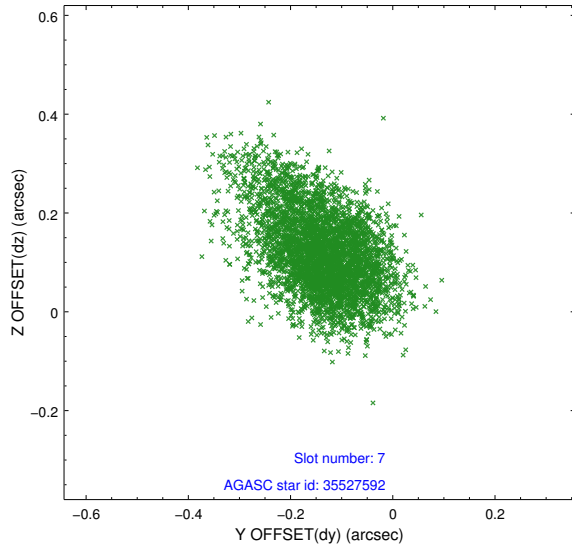


## 2.4.4 Slot 6



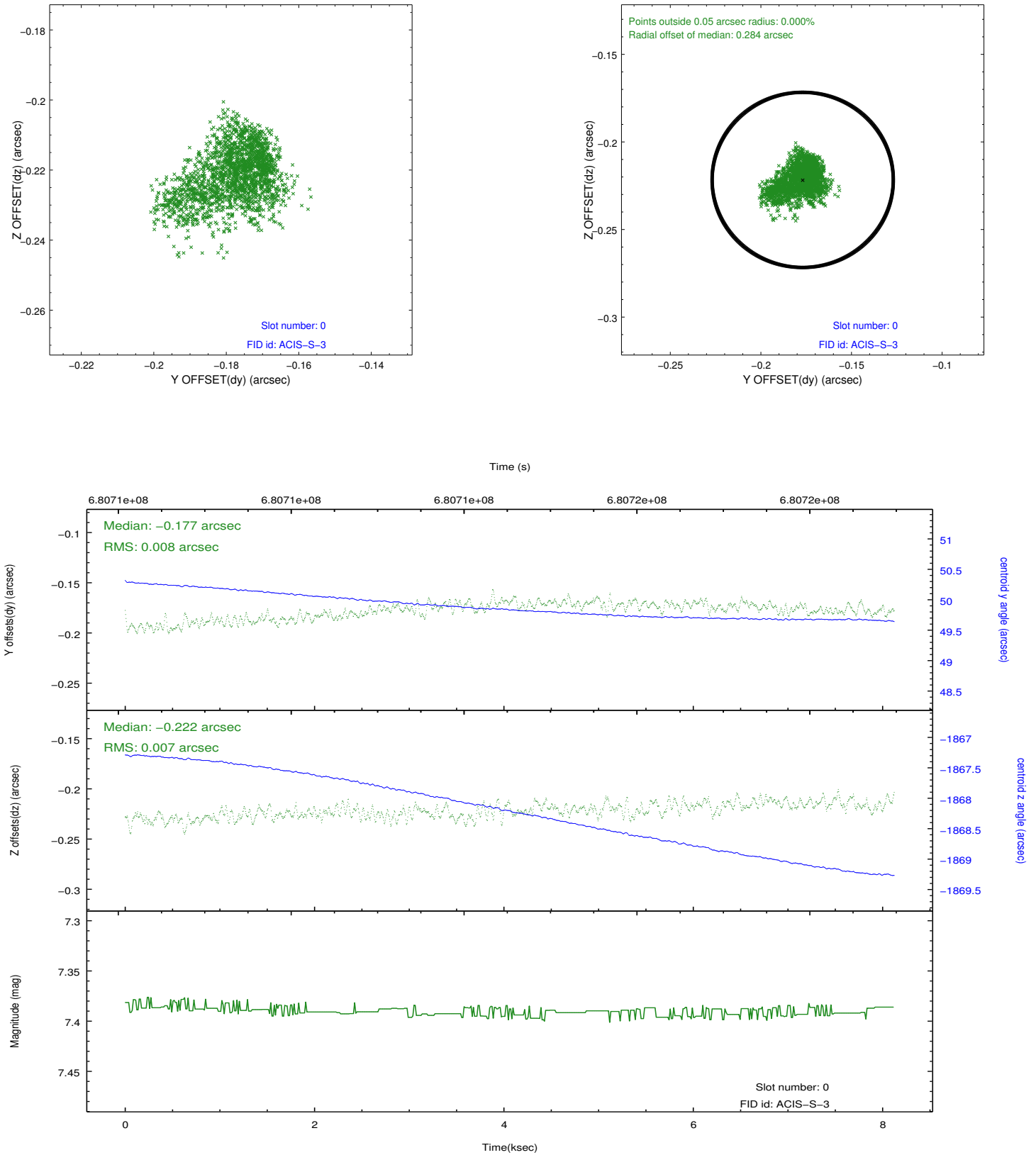


## 2.4.5 Slot 7

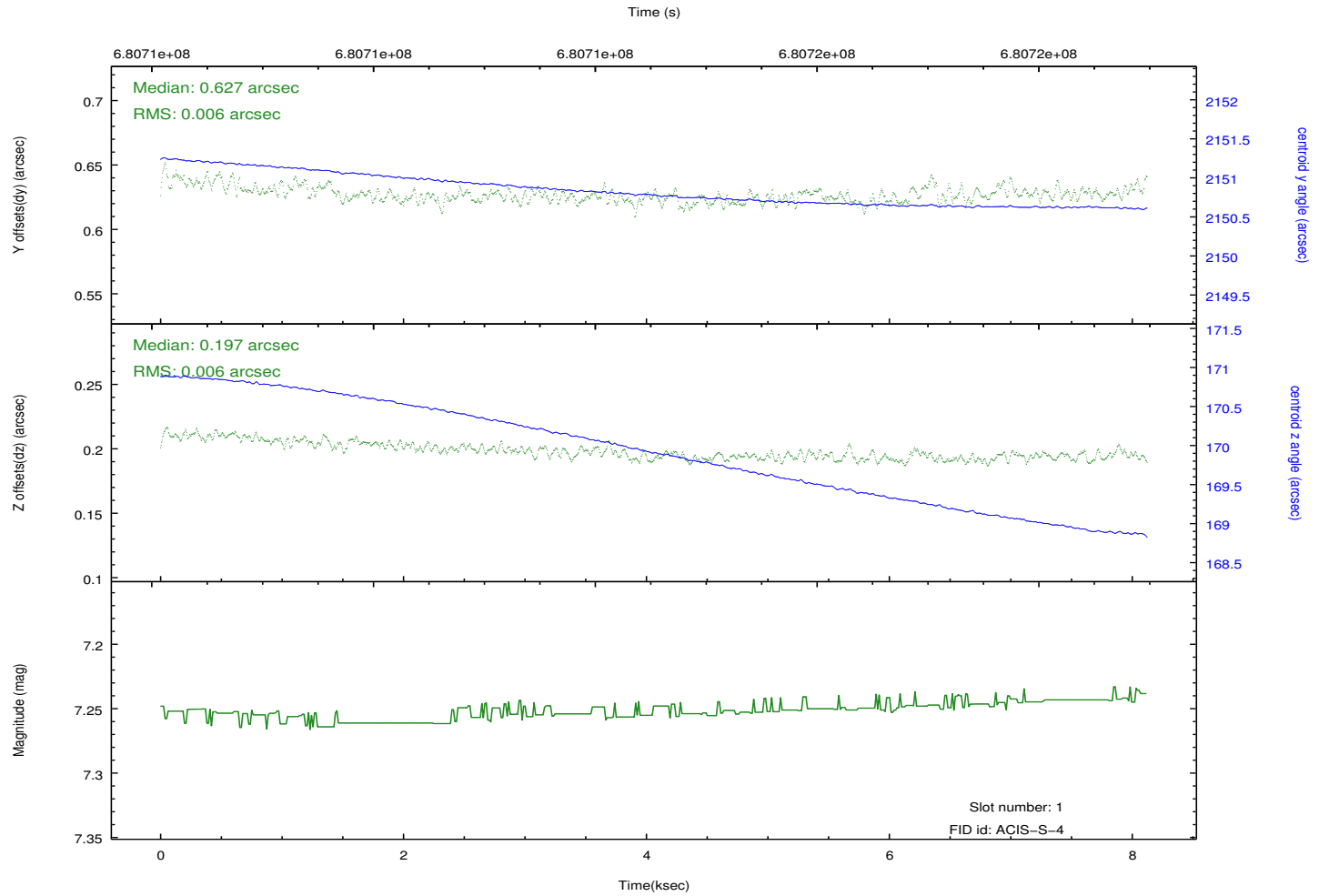
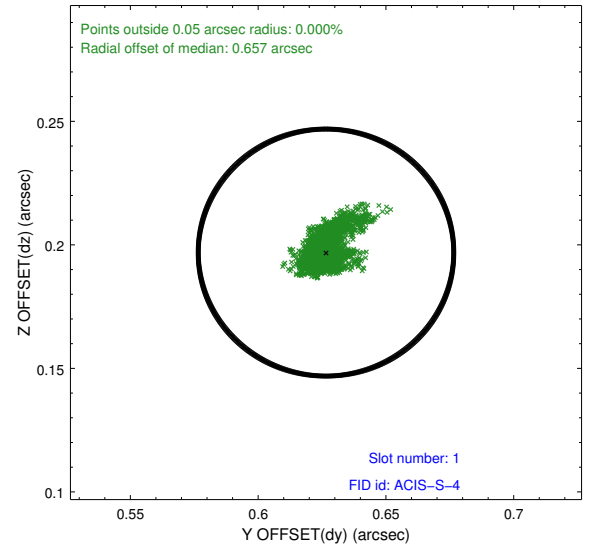
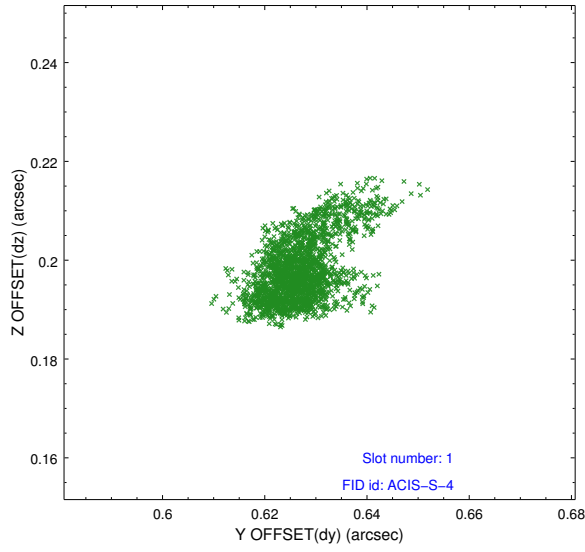


## 2.5 FID Slots

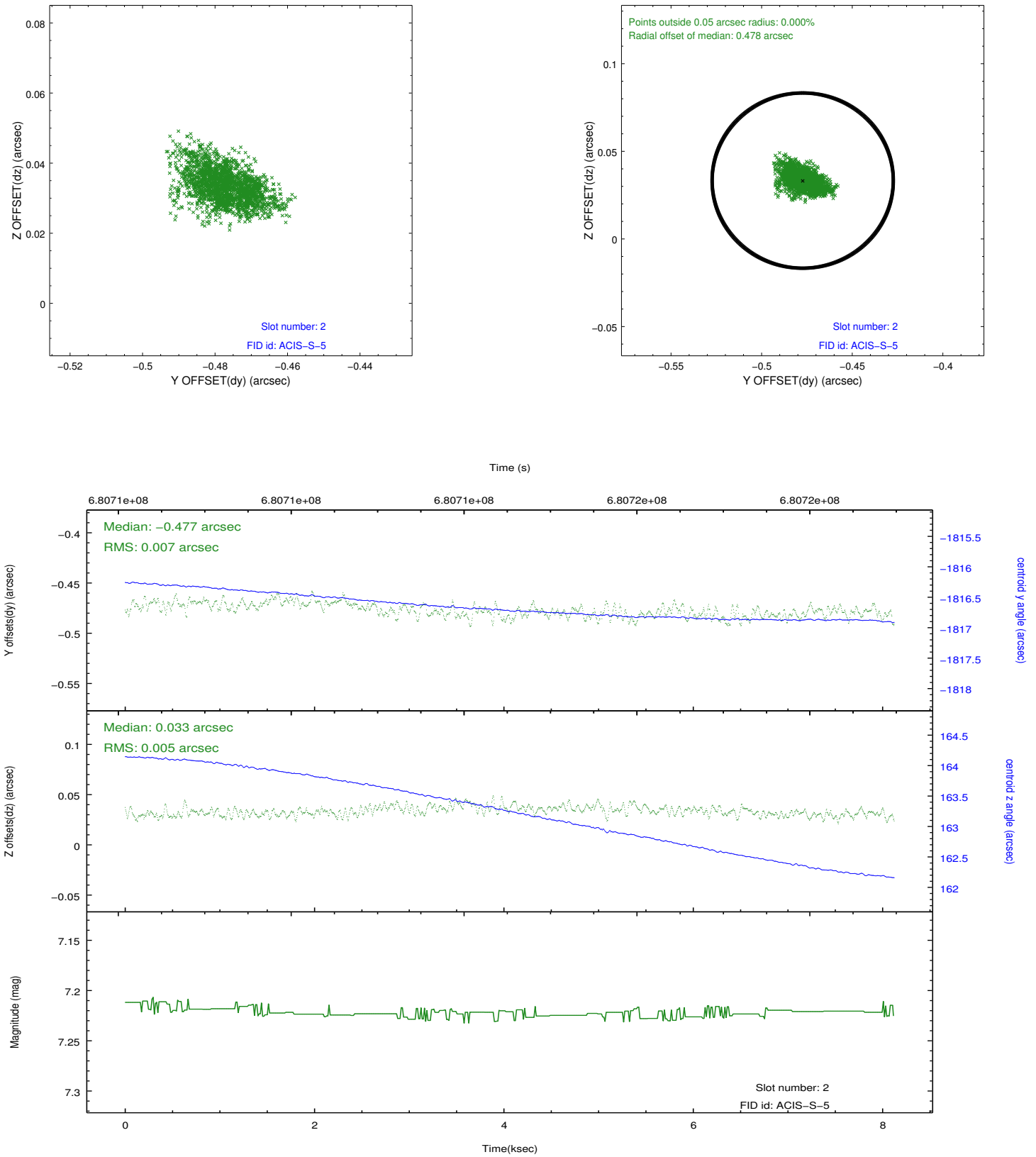
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0651421971321

### A.2 Comments

Joint proposal with NRAO.