

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 17890 - L2 Version 1  
Chandra X-Ray Center

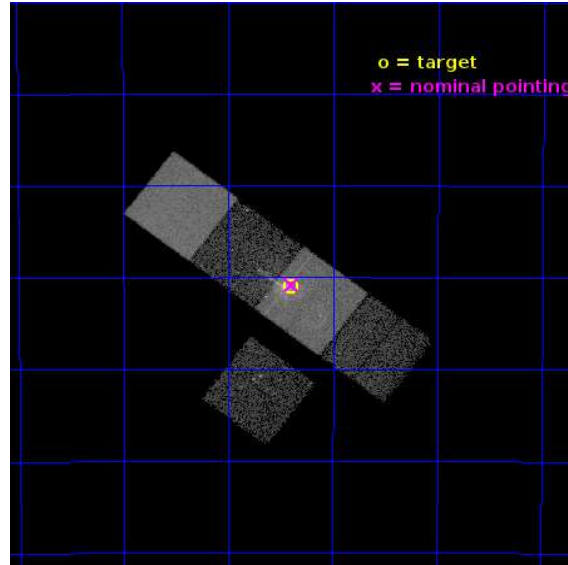
L2 Processing Date : Feb 25 2016

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# 1 Front

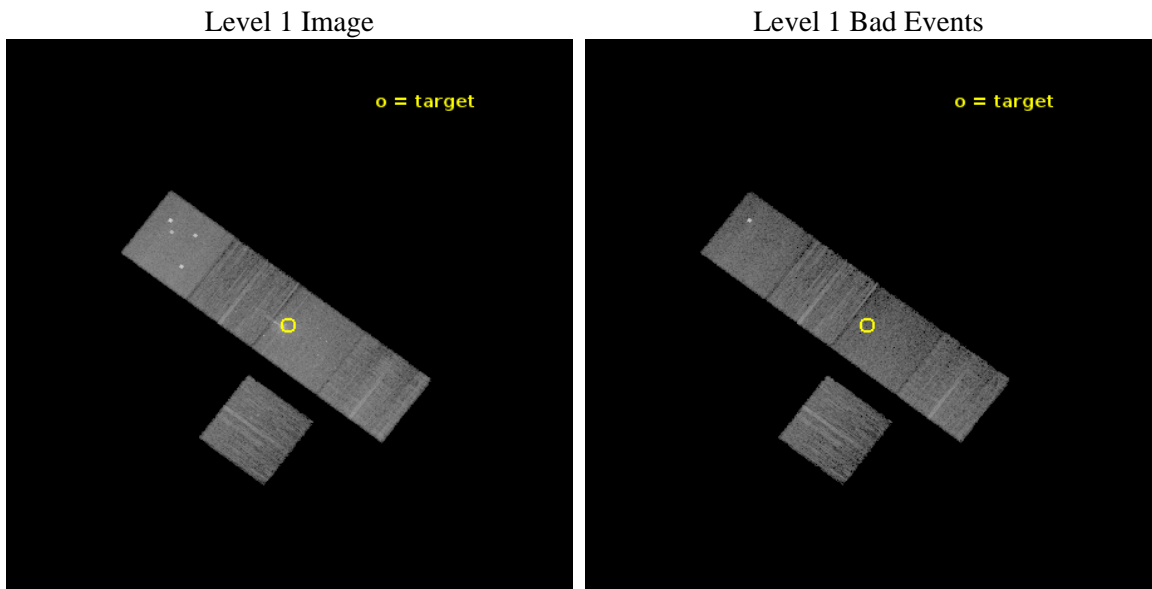
seq_num	502509	Sequence number
obs_id	17890	Observation id
title	Probing the Energetics and Environments of Hydrogen-poor Core-Collapse SNe	Proposal title
observer	Dr Raffaella Margutti	Principal investigator
object	SN2016adj	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.350458	Observer's specified target RA [deg]
dec_targ	-43.015972	Observer's specified target Dec [deg]
ra_nom	201.34916996734	Nominal RA [deg]
dec_nom	-43.013402137113	Nominal Dec [deg]
roll_nom	37.15573053198	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10056.400077462	Sum of GTIs [s]
livetime	9925.0058070361	Livetime [s]
ontime3	10056.400077462	Sum of GTIs [s]
ontime5	10056.400077462	Sum of GTIs [s]
ontime6	10056.400077462	Sum of GTIs [s]
ontime7	10056.400077462	Sum of GTIs [s]
ontime8	10056.400077462	Sum of GTIs [s]
l2events	119629	Number of level 2 events



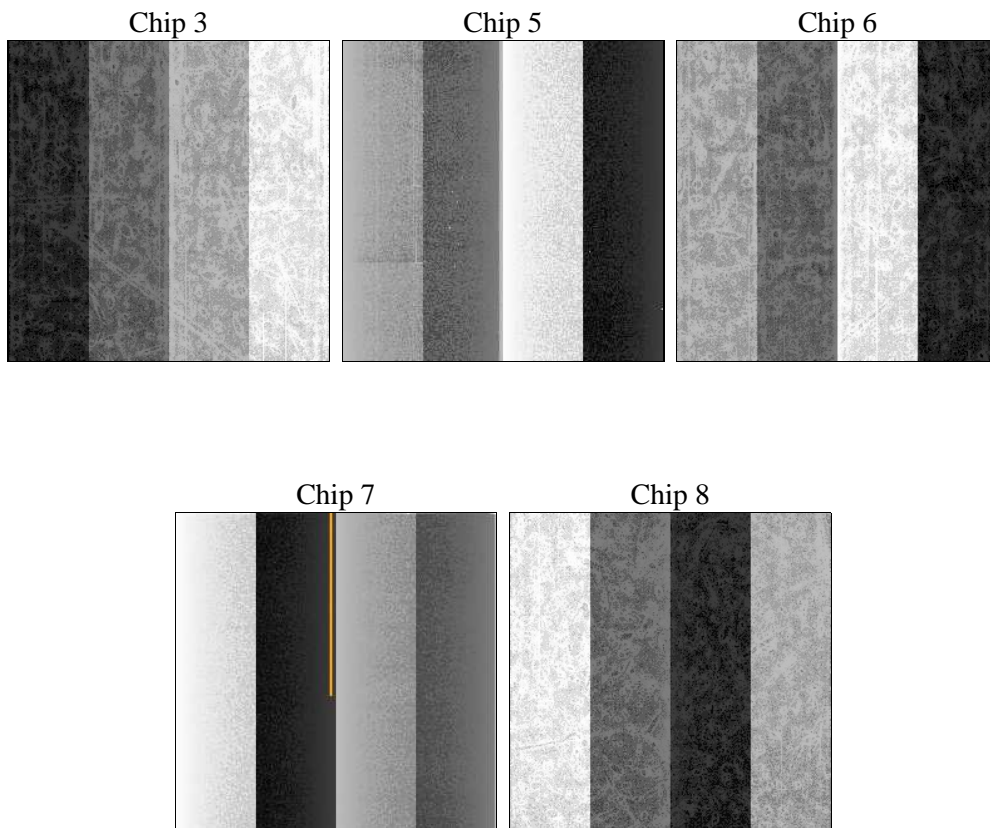
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	10056.400077462	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime3	10056.400077462	Sum of GTIs [s]
date	2016-02-25T14:07:52	Date and time of file creation	ontime5	10056.400077462	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10056.400077462	Sum of GTIs [s]
			ontime7	10056.400077462	Sum of GTIs [s]
			ontime8	10056.400077462	Sum of GTIs [s]
			l1events	426335	Number of level 1 events

### 2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	62606	111783	68722	99685	83539
rejected events	55437	56223	58989	48066	61529
rejected %	88%	50%	85%	48%	73%

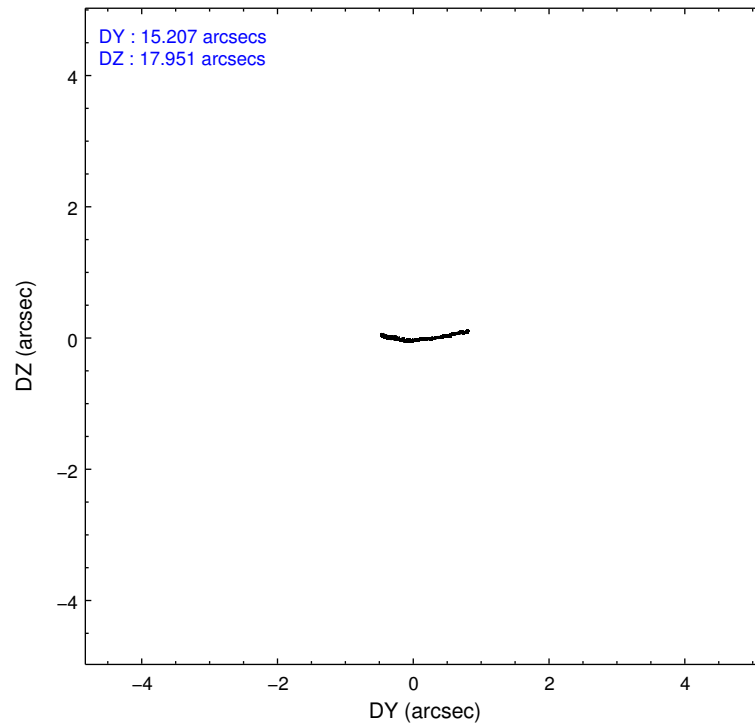
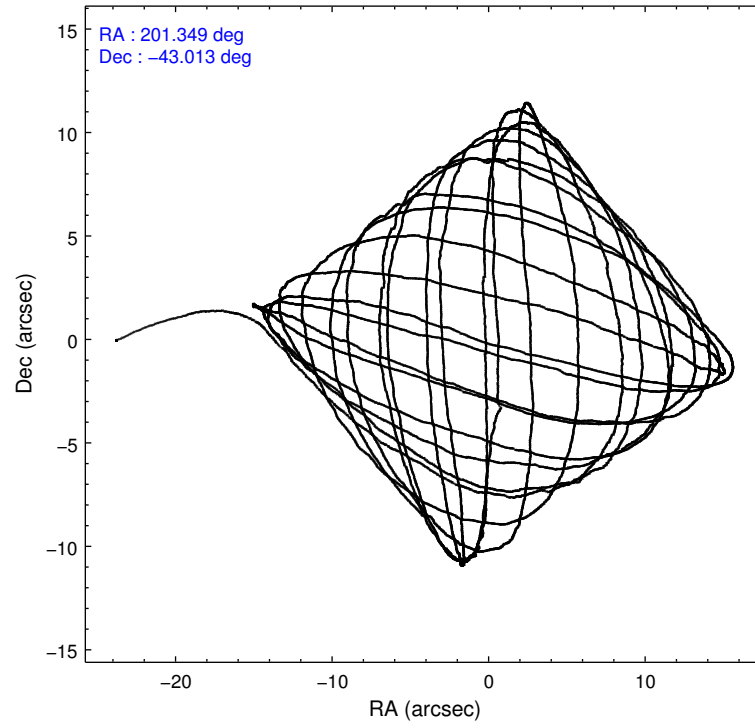
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2746	8576	4145	6570	6367
	4%	7%	6%	6%	7%
grade 1 events	27	218	23	214	57
	0%	0%	0%	0%	0%
grade 2 events	1505	17023	2075	11477	5271
	2%	15%	3%	11%	6%
grade 3 events	710	1546	832	4415	2230
	1%	1%	1%	4%	2%
grade 4 events	762	1395	788	4388	2065
	1%	1%	1%	4%	2%
grade 5 events	3057	7290	3036	8391	4517
	4%	6%	4%	8%	5%
grade 6 events	1451	27036	1895	24793	6083
	2%	24%	2%	24%	7%
grade 7 events	52348	48699	55928	39437	56949
	83%	43%	81%	39%	68%

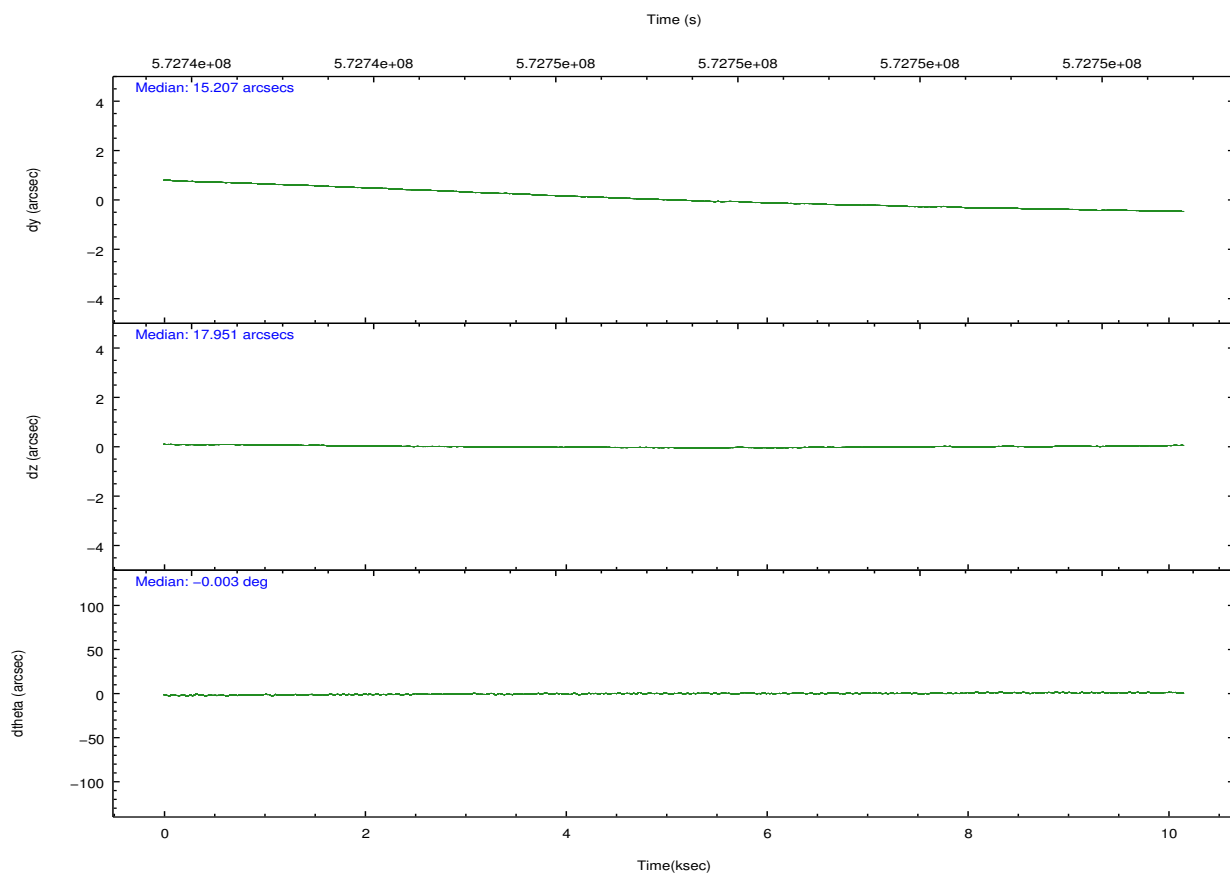
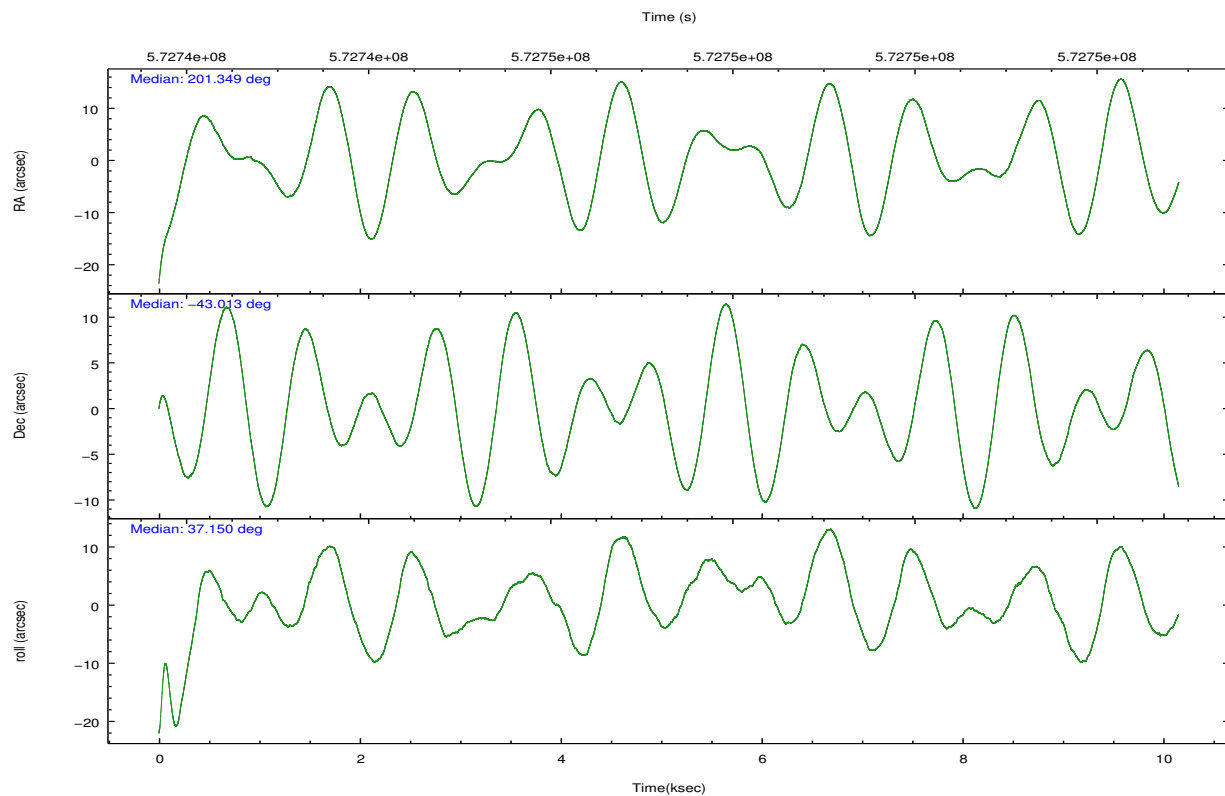


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	201.335113	201.3491699673417	CCD I2 on	N	N
[deg] Pointing Dec	-43.038833	-43.01340213711291	CCD I3 on	O1	Y
[deg] Pointing Roll	36.989535	37.1557305319798	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	572742355.184000	572741207.10956	CCD S5 on	N	N
Observation start date	2016-02-24T23:04:47	2016-02-24T22:46:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	572752355.184000	572753615.76027	On-chip summing requested	N	N
Observation end date	2016-02-25T01:51:27	2016-02-25T02:13:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



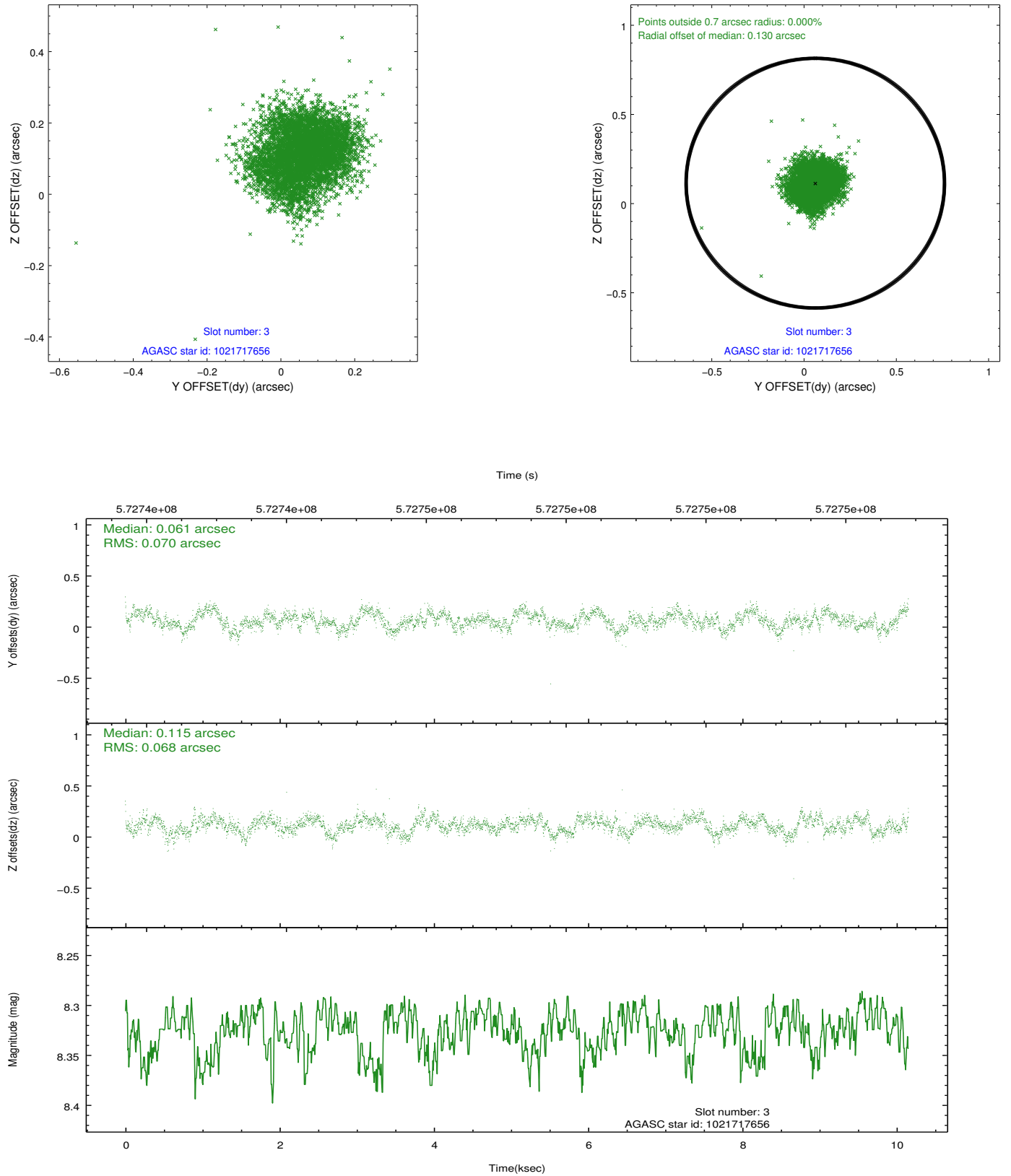


### Slot Statistics

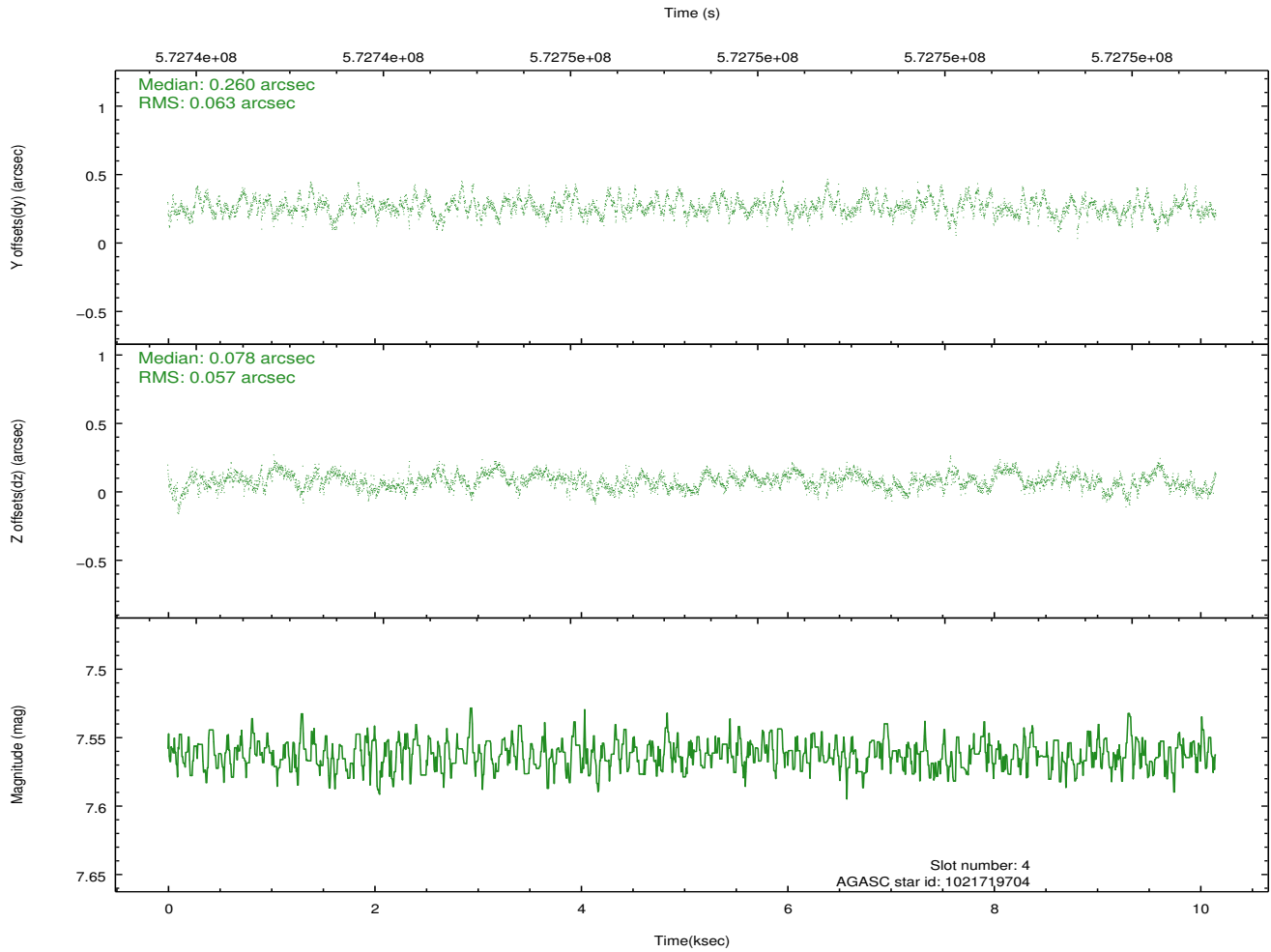
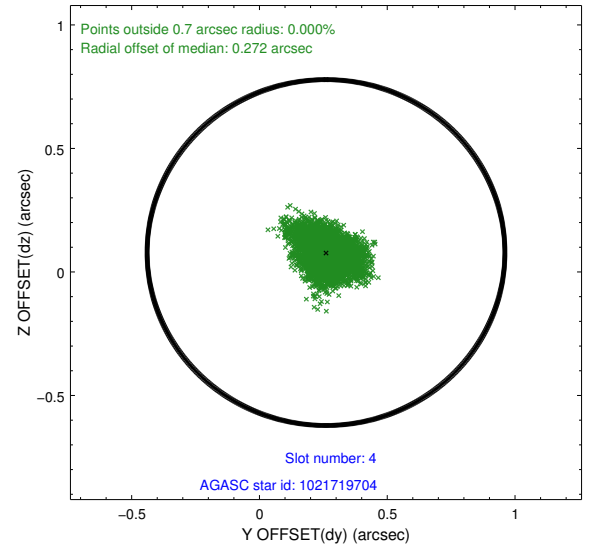
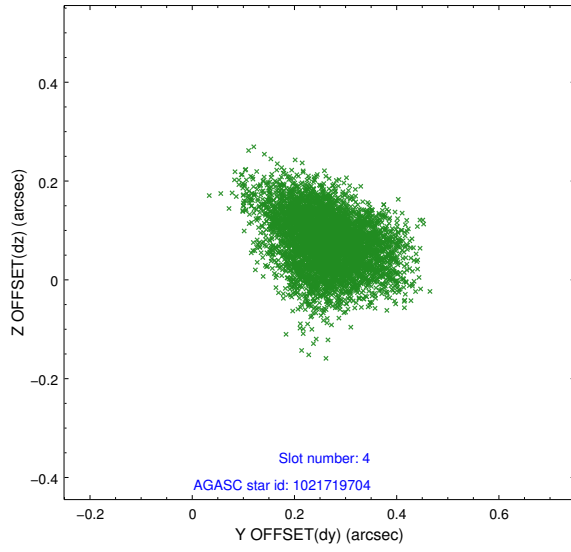
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	2477	-0.177	-0.146	0.009	0.016	0.000000	0.000000	-768.46	-1739.50
1	FID		ACIS-S-4	7.22	2477	0.450	0.124	0.010	0.018	0.000000	0.000000	2145.23	168.67
2	FID		ACIS-S-5	7.23	2477	-0.302	0.030	0.013	0.024	0.000000	0.000000	-1820.73	162.90
3	GUIDE	used	1021717656	8.32	4952	0.061	0.115	0.105	0.160	201.139642	-43.082878	-506.05	182.11
4	GUIDE	used	1021719704	7.56	4953	0.260	0.078	0.090	0.148	200.511976	-43.050426	-1760.82	1260.68
5	GUIDE	used	1021721304	9.62	4947	-0.294	-0.114	0.170	0.272	201.117326	-42.480412	746.59	1953.21
6	GUIDE	used	1022235840	9.40	4944	0.025	0.206	0.153	0.242	201.679306	-43.544276	-377.97	-1994.76
7	GUIDE	used	1021716808	8.79	4952	-0.040	-0.294	0.110	0.185	200.901189	-42.531395	177.35	2148.63

## 2.4 Star Slots

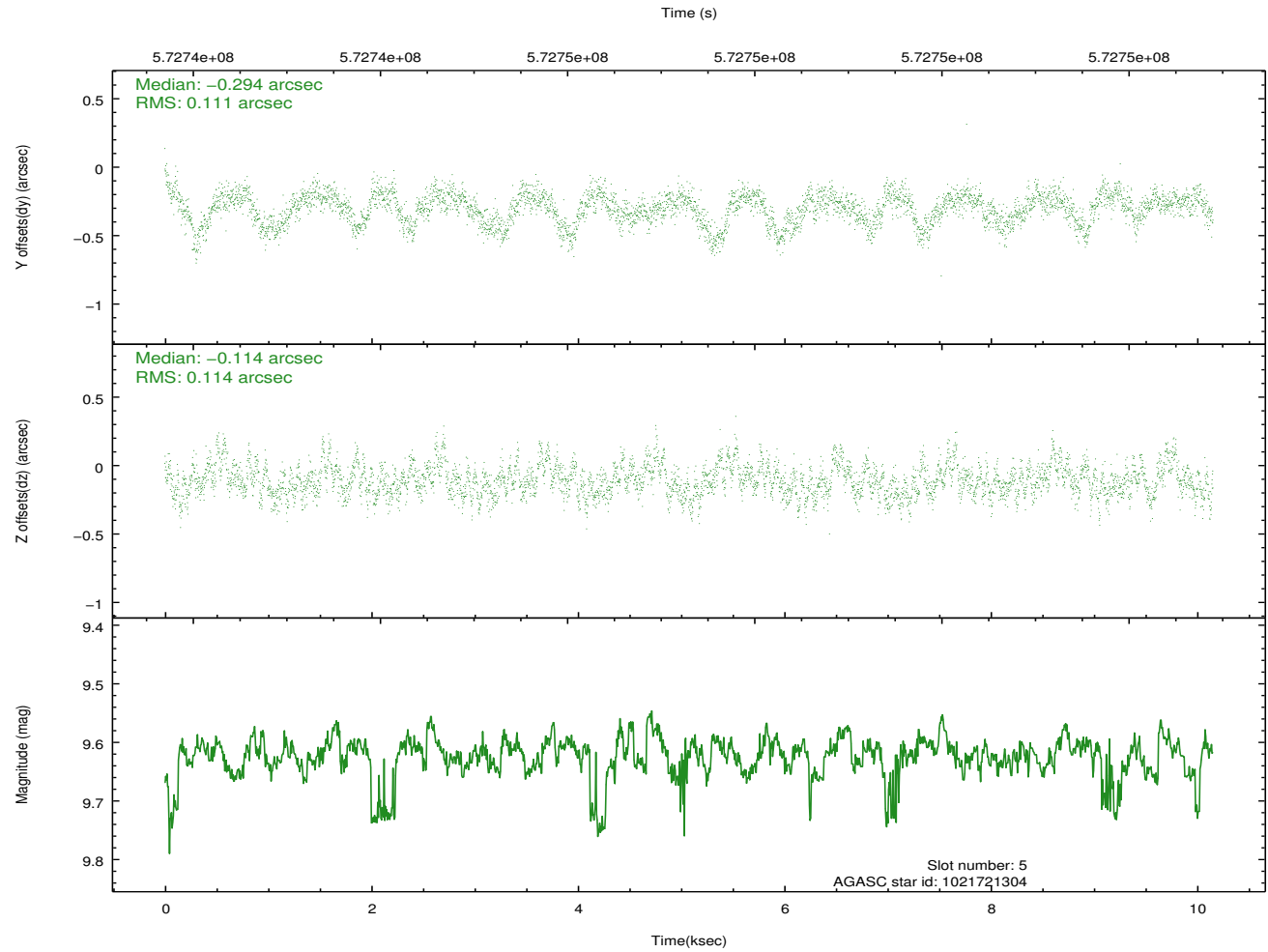
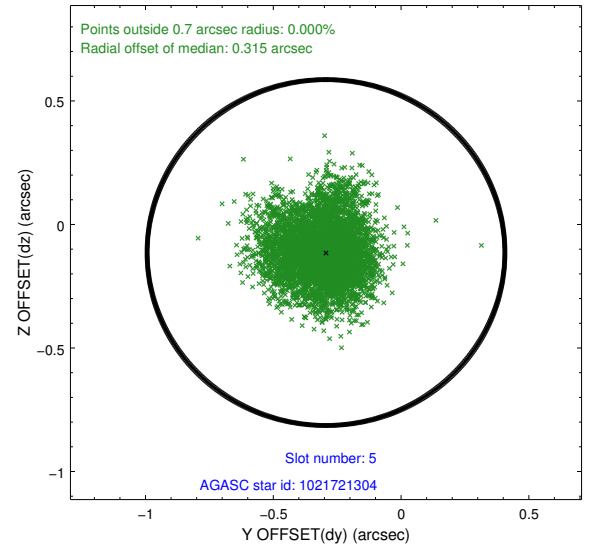
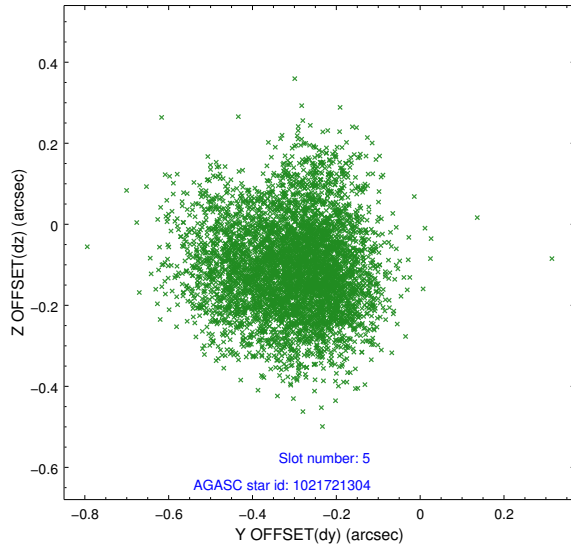
### 2.4.1 Slot 3



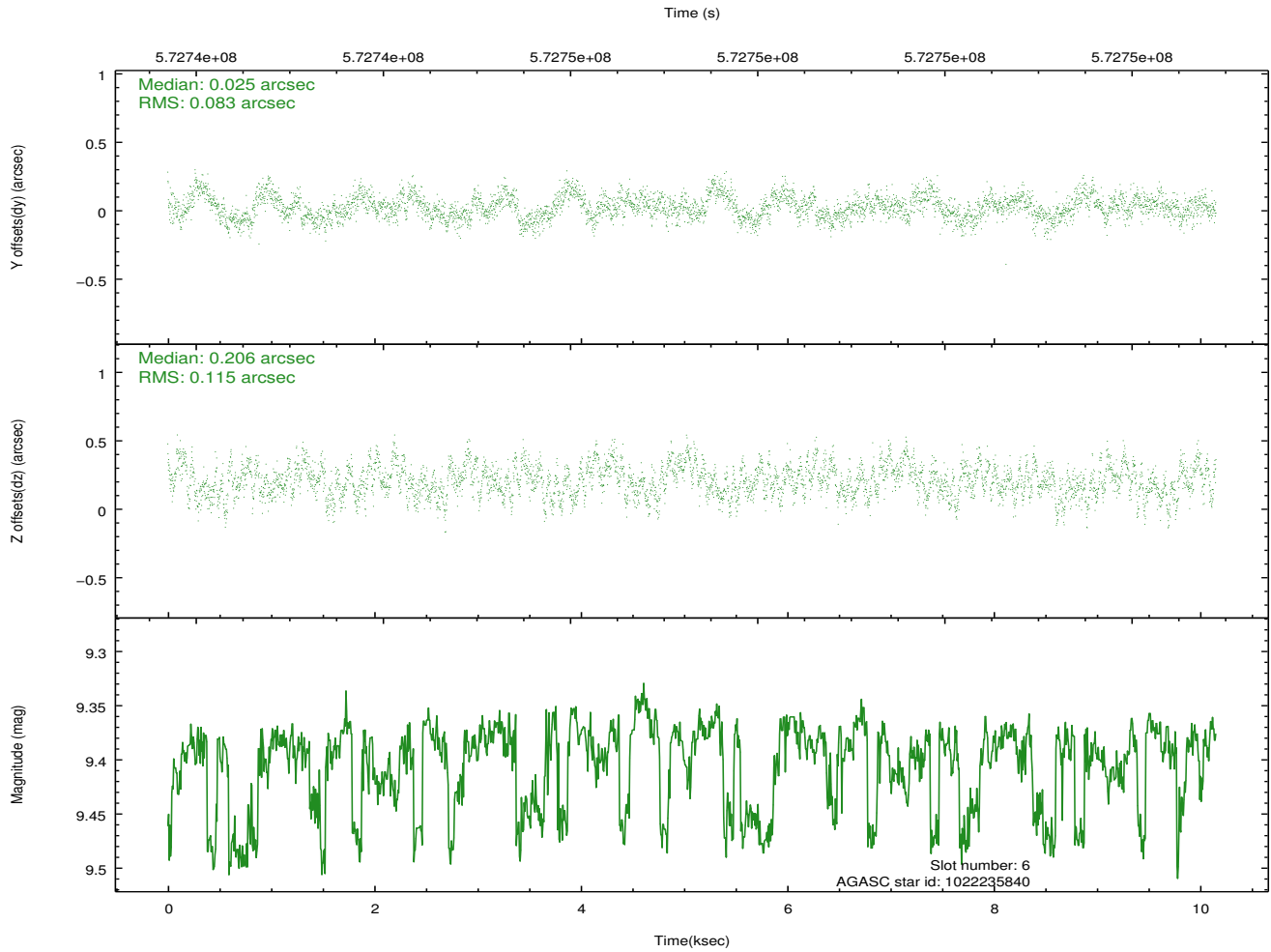
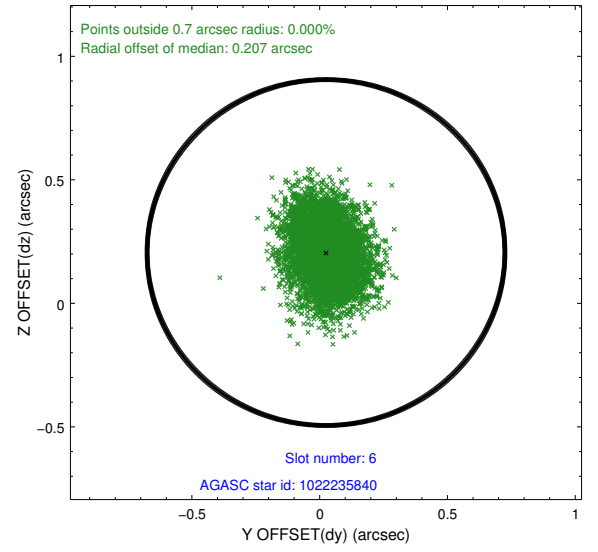
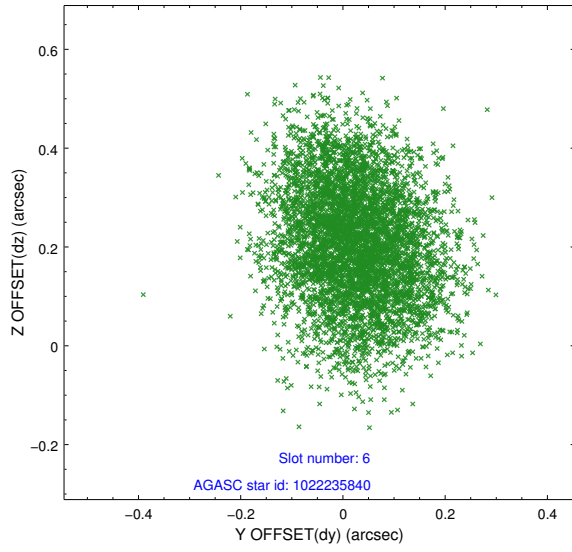
## 2.4.2 Slot 4



### 2.4.3 Slot 5

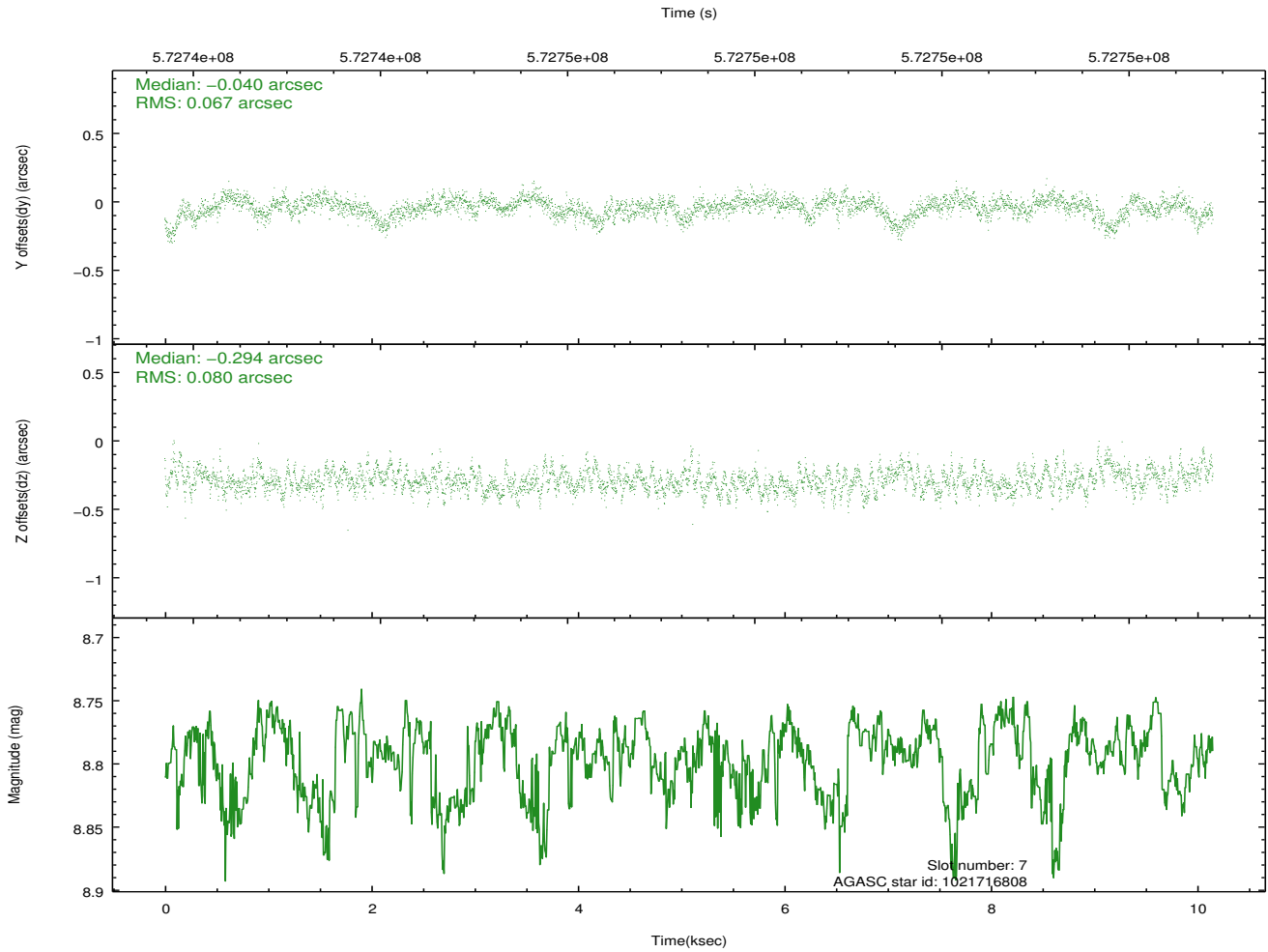
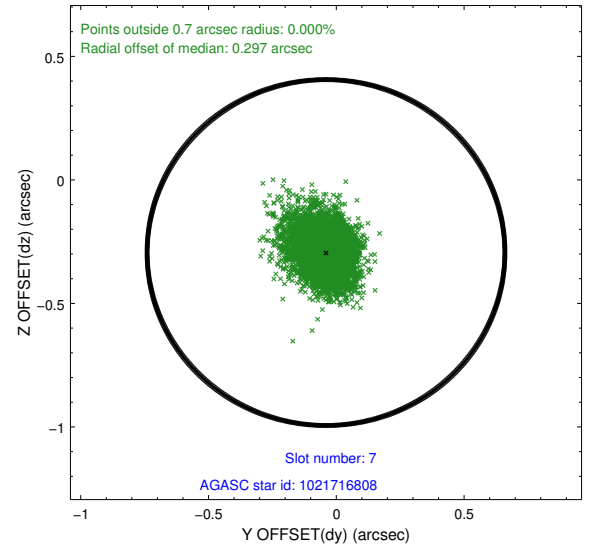
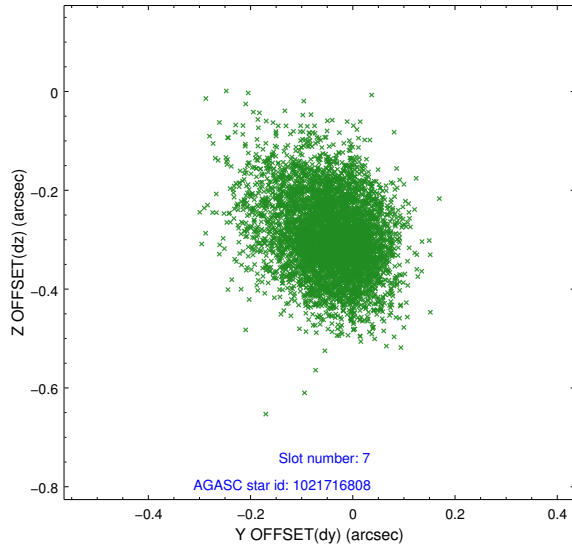


## 2.4.4 Slot 6



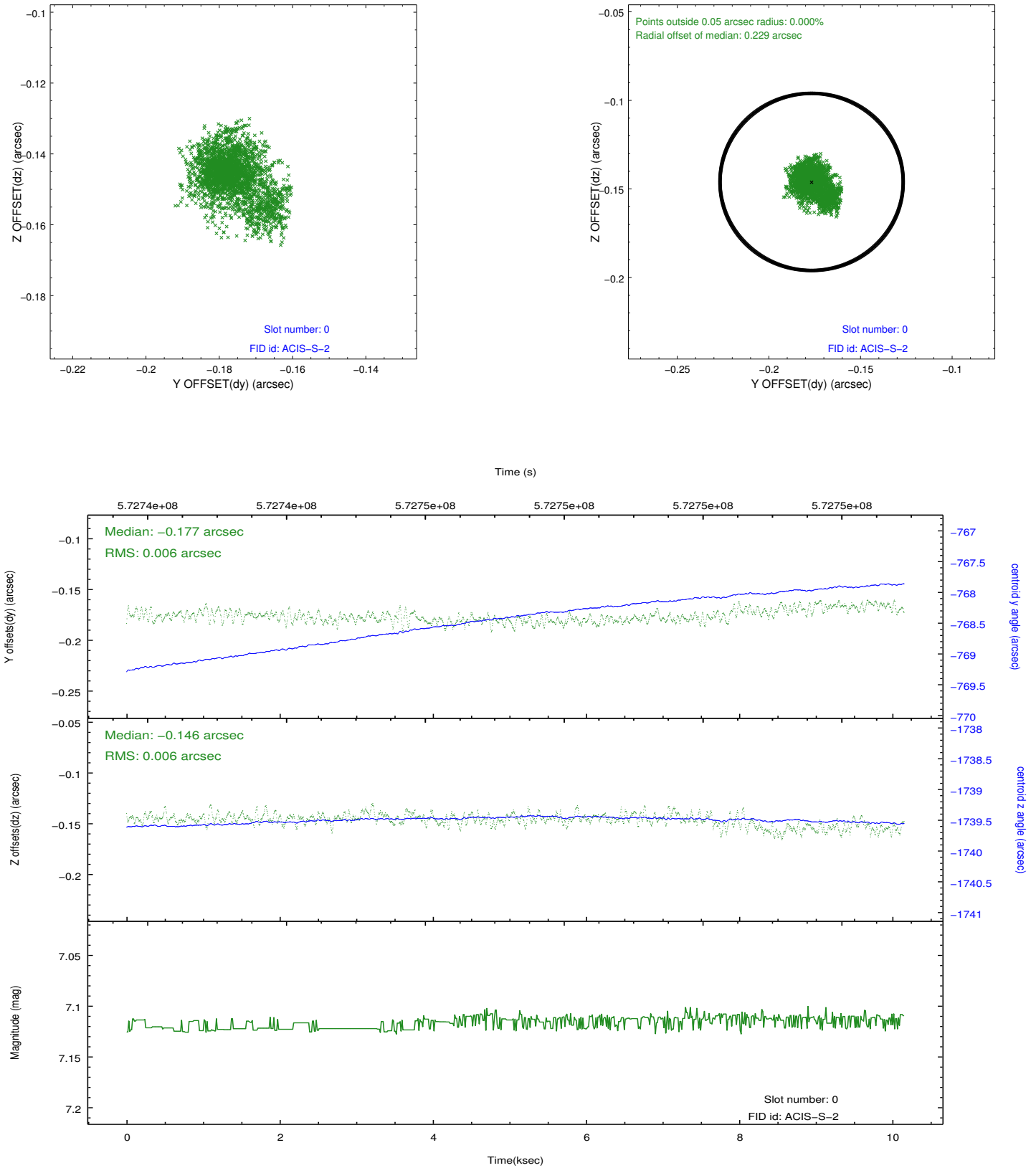


## 2.4.5 Slot 7

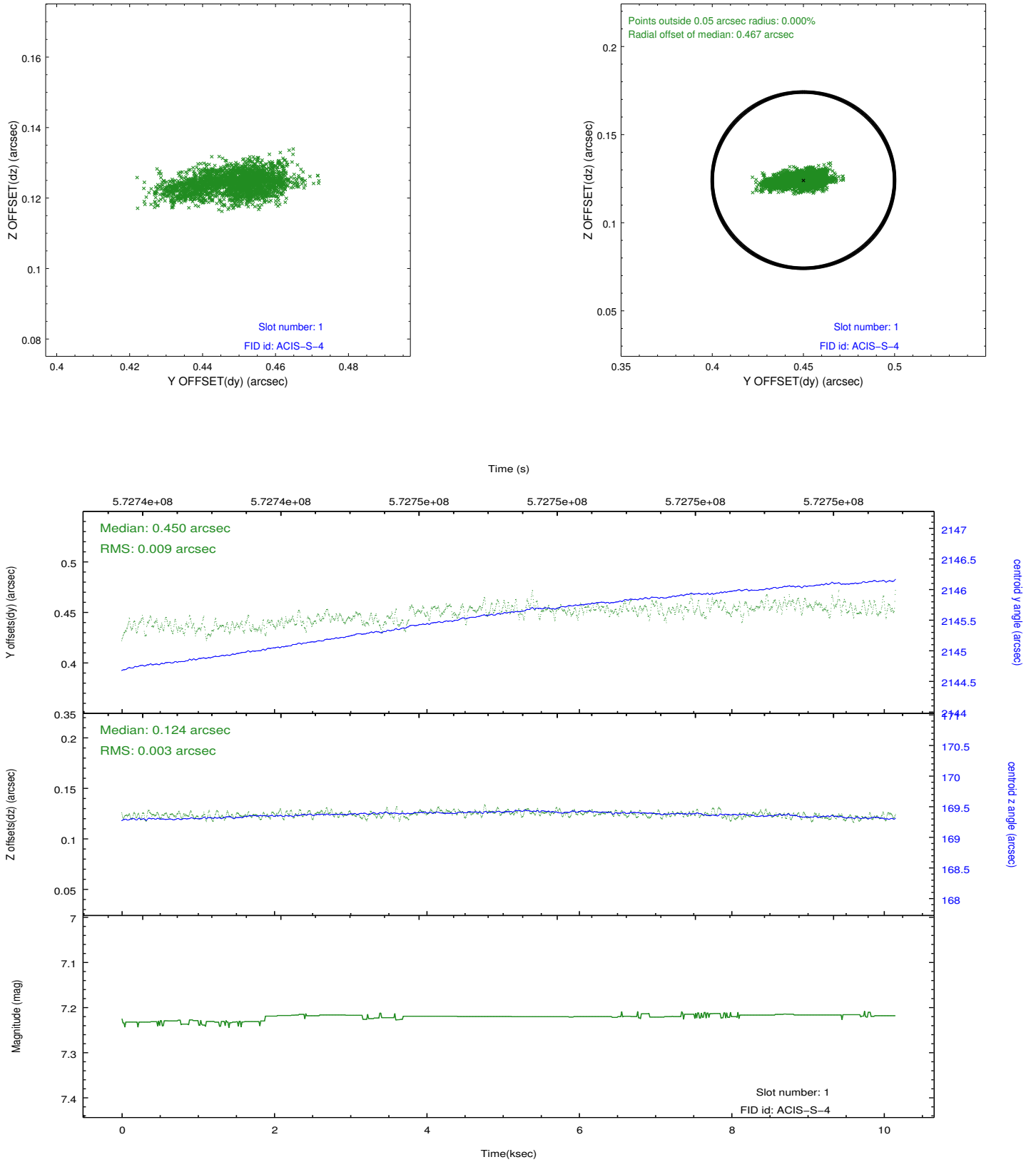


## 2.5 FID Slots

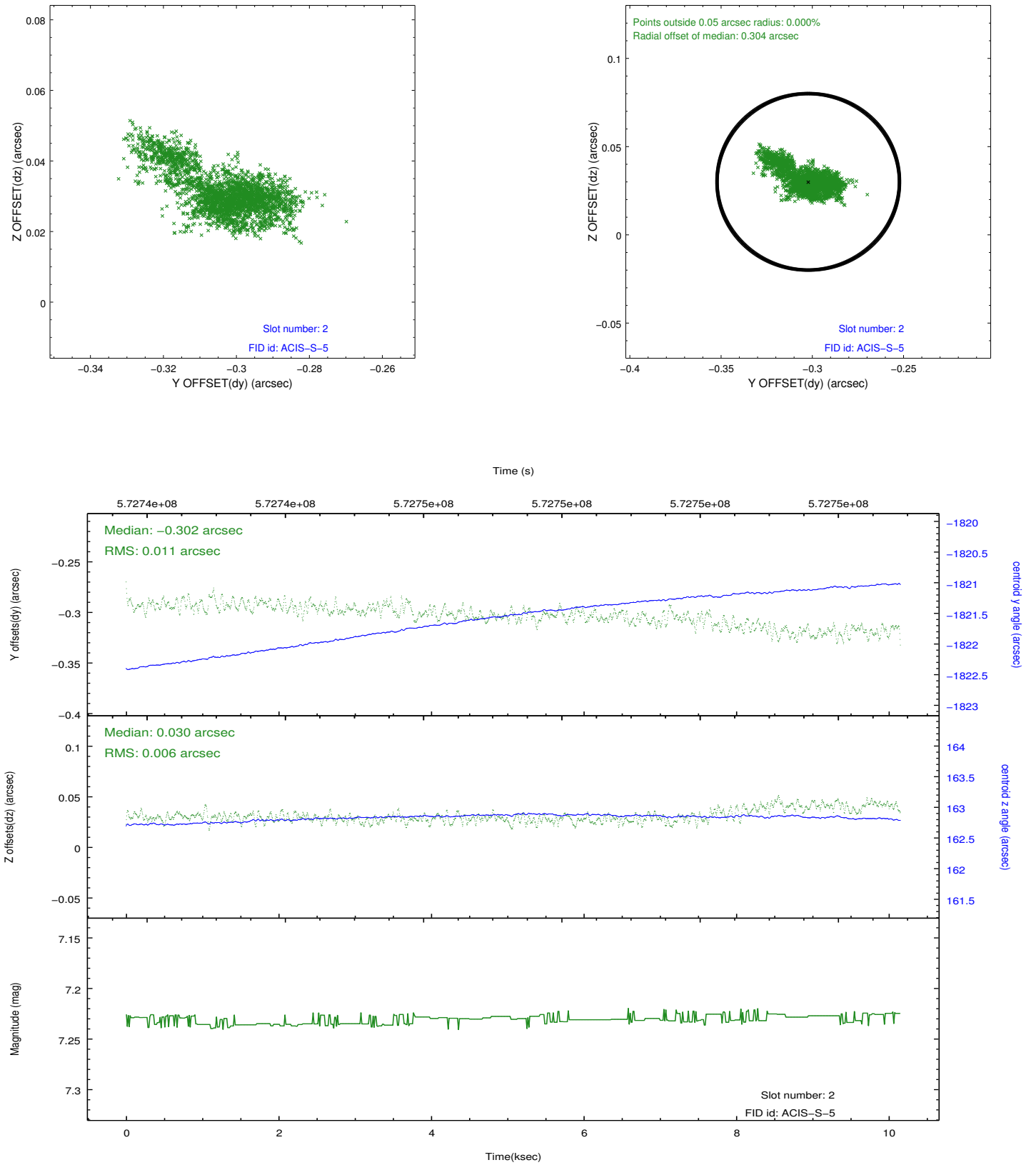
### 2.5.1 Slot 0



## 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)	2016.02.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.056400077462

### A.2 Comments

Joint proposal with NRAO.