

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17070 - L2 Version 1
Chandra X-Ray Center

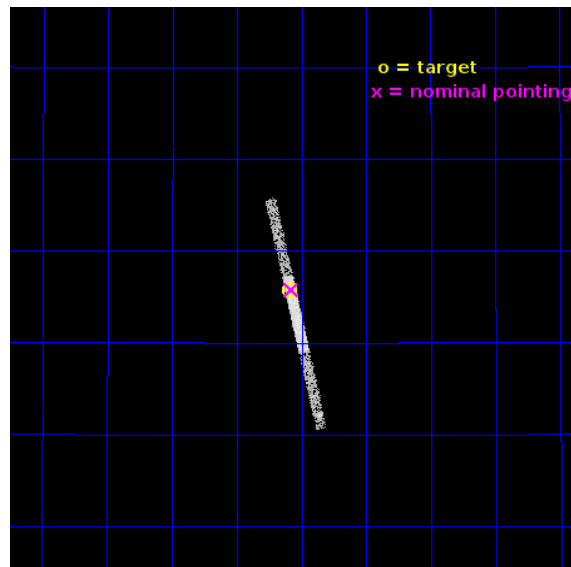
L2 Processing Date : Dec 8 2015

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1 Front

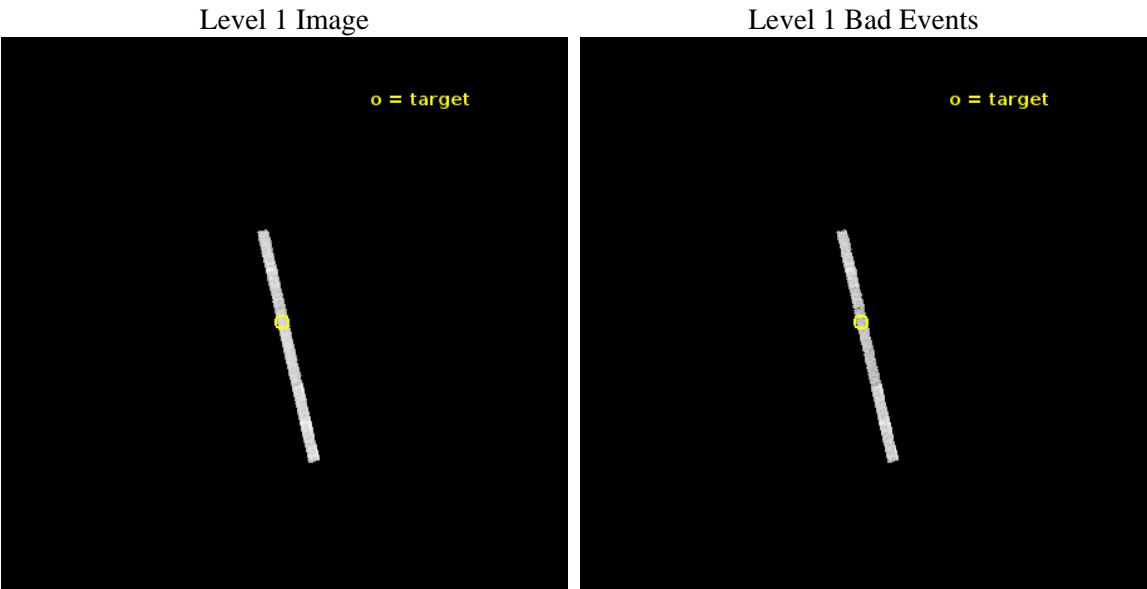
seq_num	703074	Sequence number
obs_id	17070	Observation id
title	MERGER-TRIGGERED NUCLEAR ACTIVITY AT SUB-KILOPARSEC SCALES	Proposa
observer	Dr. Giuseppina Fabbiano	Principal investigator
object	Mrk1230	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.272083	Observer's specified target RA [deg]
dec_targ	25.429194	Observer's specified target Dec [deg]
ra_nom	139.26949804592	Nominal RA [deg]
dec_nom	25.429628050273	Nominal Dec [deg]
roll_nom	77.913362488698	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10103.400401592	Sum of GTIs [s]
livetime	9456.5709487011	Livetime [s]
ontime6	10103.400401592	Sum of GTIs [s]
ontime7	10103.400401592	Sum of GTIs [s]
ontime8	10103.400401592	Sum of GTIs [s]
l2events	6343	Number of level 2 events



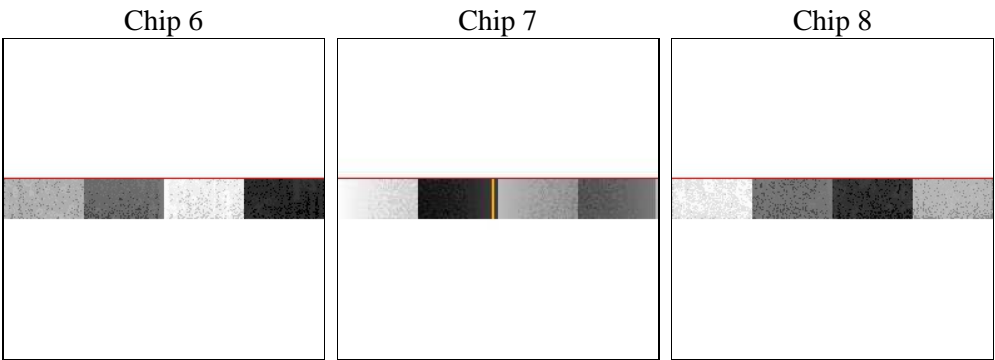
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.394000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	10103.400401592	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime6	10103.400401592	Sum of GTIs [s]
date	2015-12-08T20:43:05	Date and time of file creation	ontime7	10103.400401592	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10103.400401592	Sum of GTIs [s]
			l1events	33166	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	9748	9974	13444
rejected events	8664	5269	10528
rejected %	88%	52%	78%

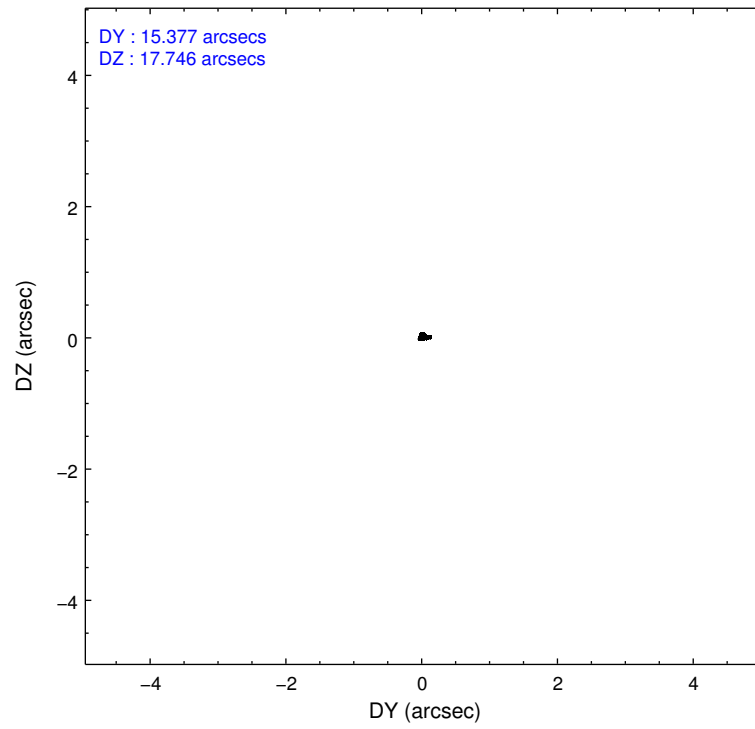
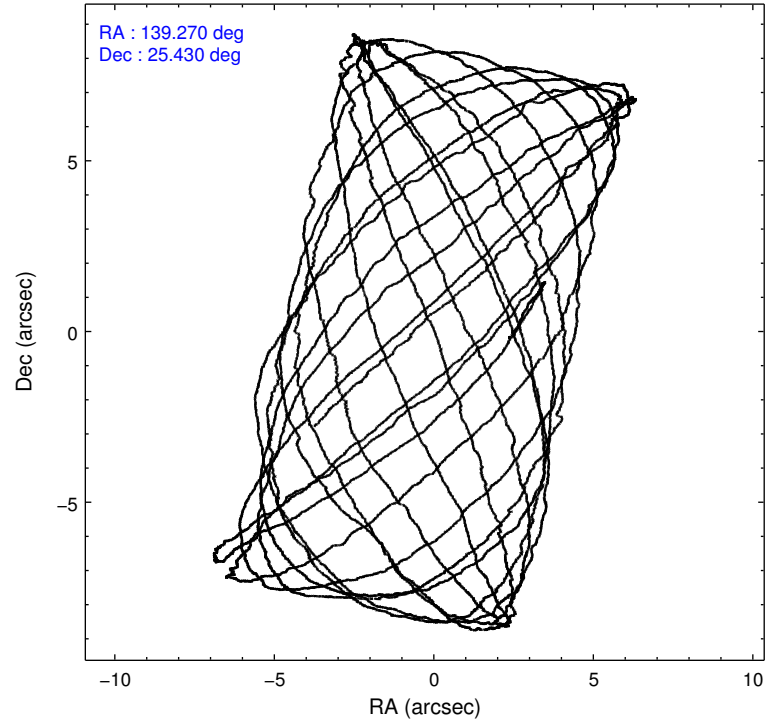
	ccd 6	ccd 7	ccd 8
grade 0 events	293	419	694
	3%	4%	5%
grade 1 events	5	7	3
	0%	0%	0%
grade 2 events	186	906	695
	1%	9%	5%
grade 3 events	195	529	293
	2%	5%	2%
grade 4 events	182	514	287
	1%	5%	2%
grade 5 events	364	1021	484
	3%	10%	3%
grade 6 events	228	2337	947
	2%	23%	7%
grade 7 events	8295	4241	10041
	85%	42%	74%

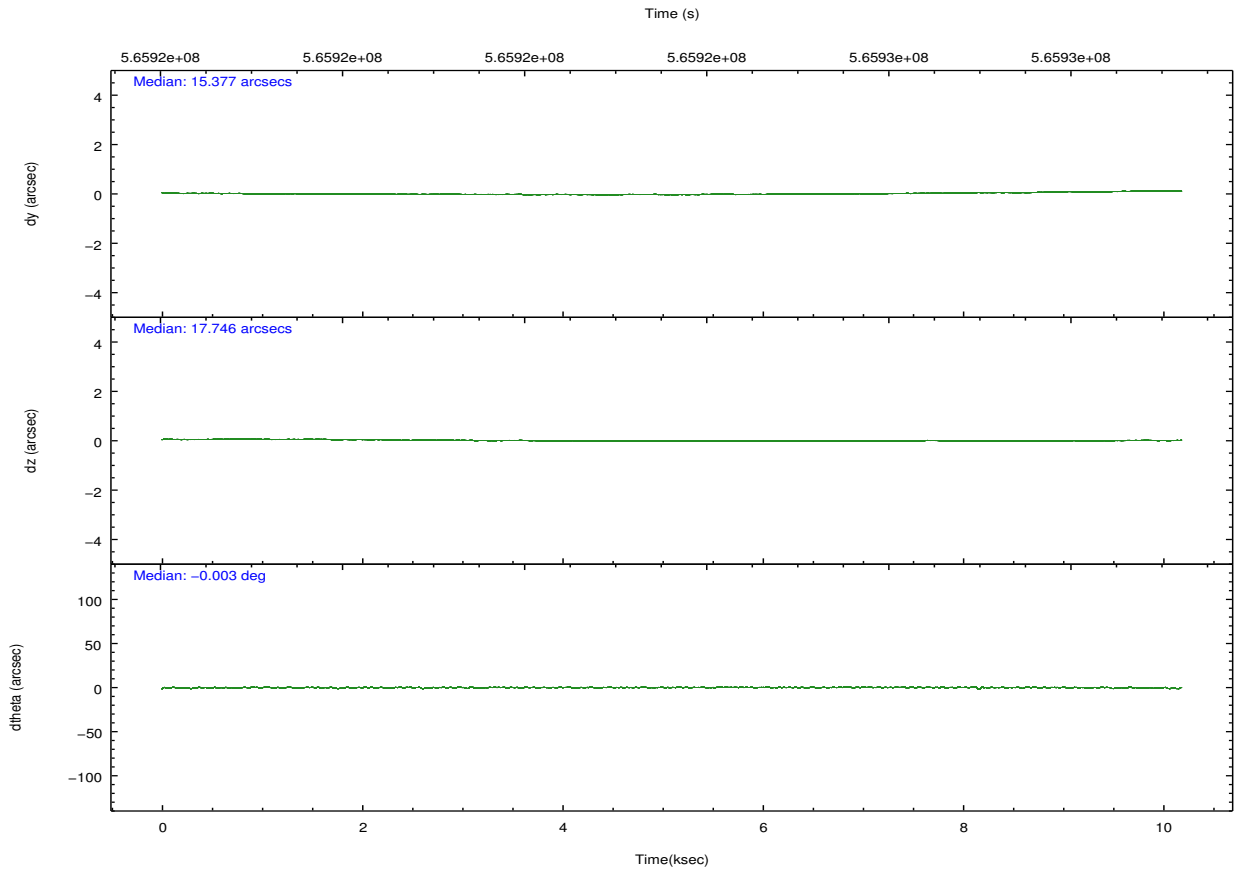
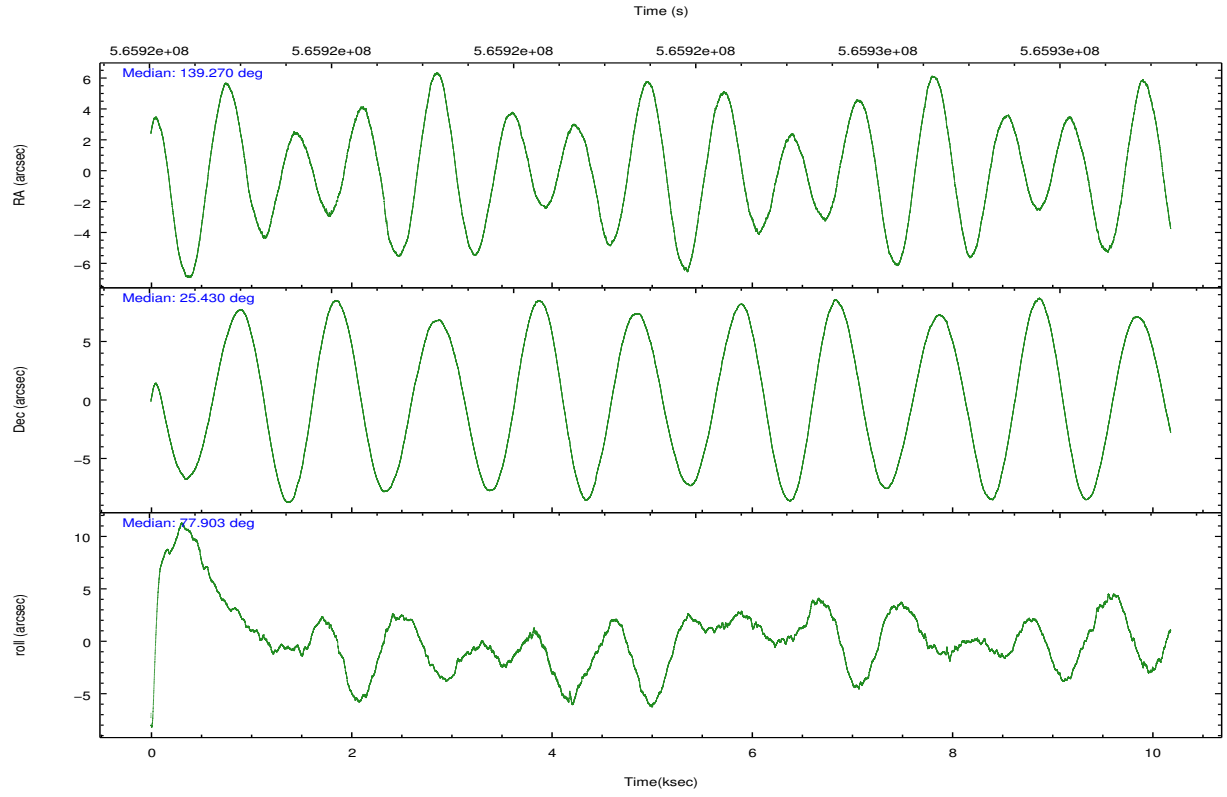
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	139.279223	139.269498045919
[deg] Pointing Dec	25.403632	25.42962805027286
[deg] Pointing Roll	77.752571	77.91336248869783
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	565918705.184000	565917756.09712
Observation start date	2015-12-07T23:37:17	2015-12-07T23:22:36
[s] Observation end time (MET)	565928706.184000	565928931.1602499
Observation end date	2015-12-08T02:23:58	2015-12-08T02:28:51
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.6

2.3 Aspect



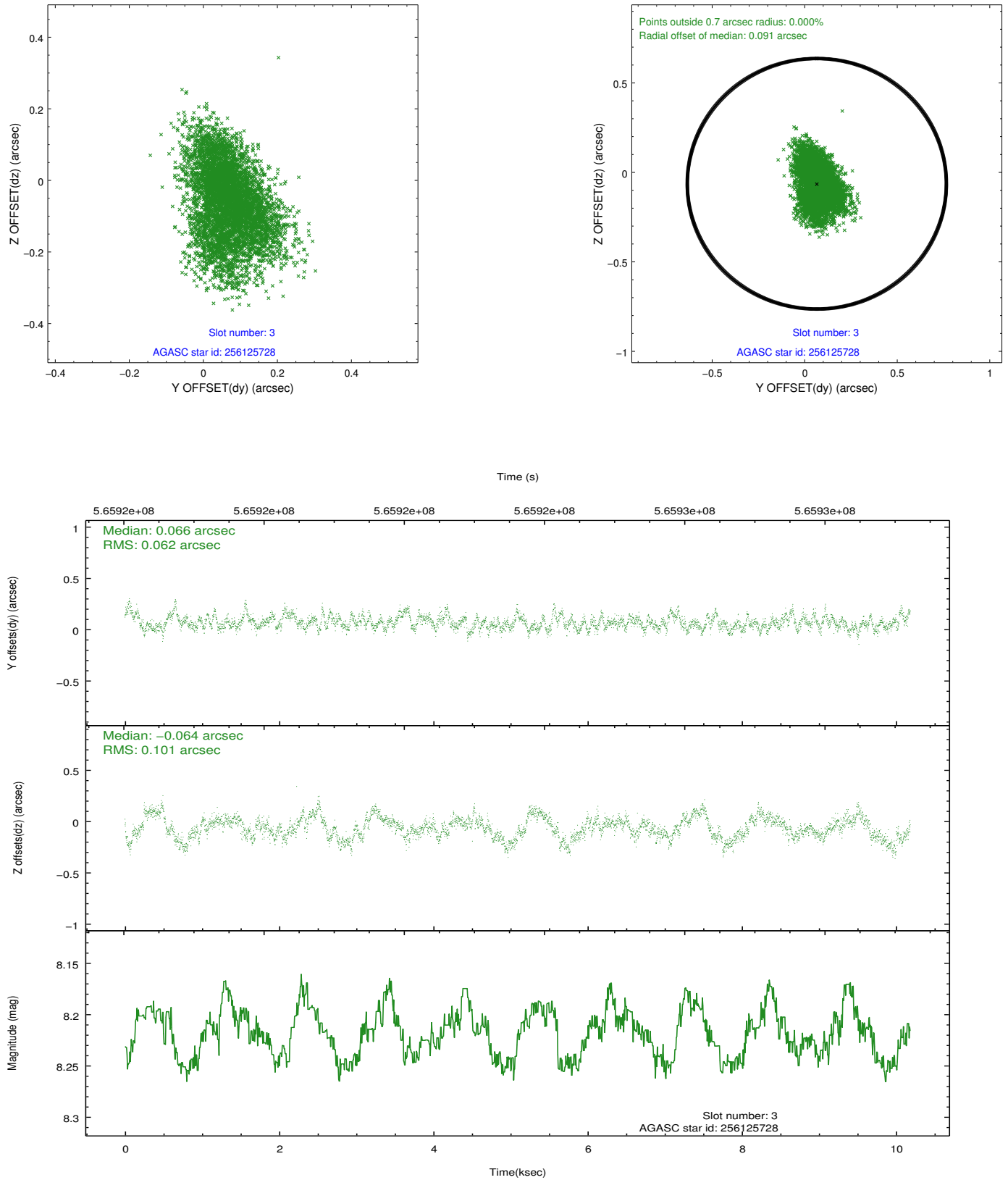


Slot Statistics

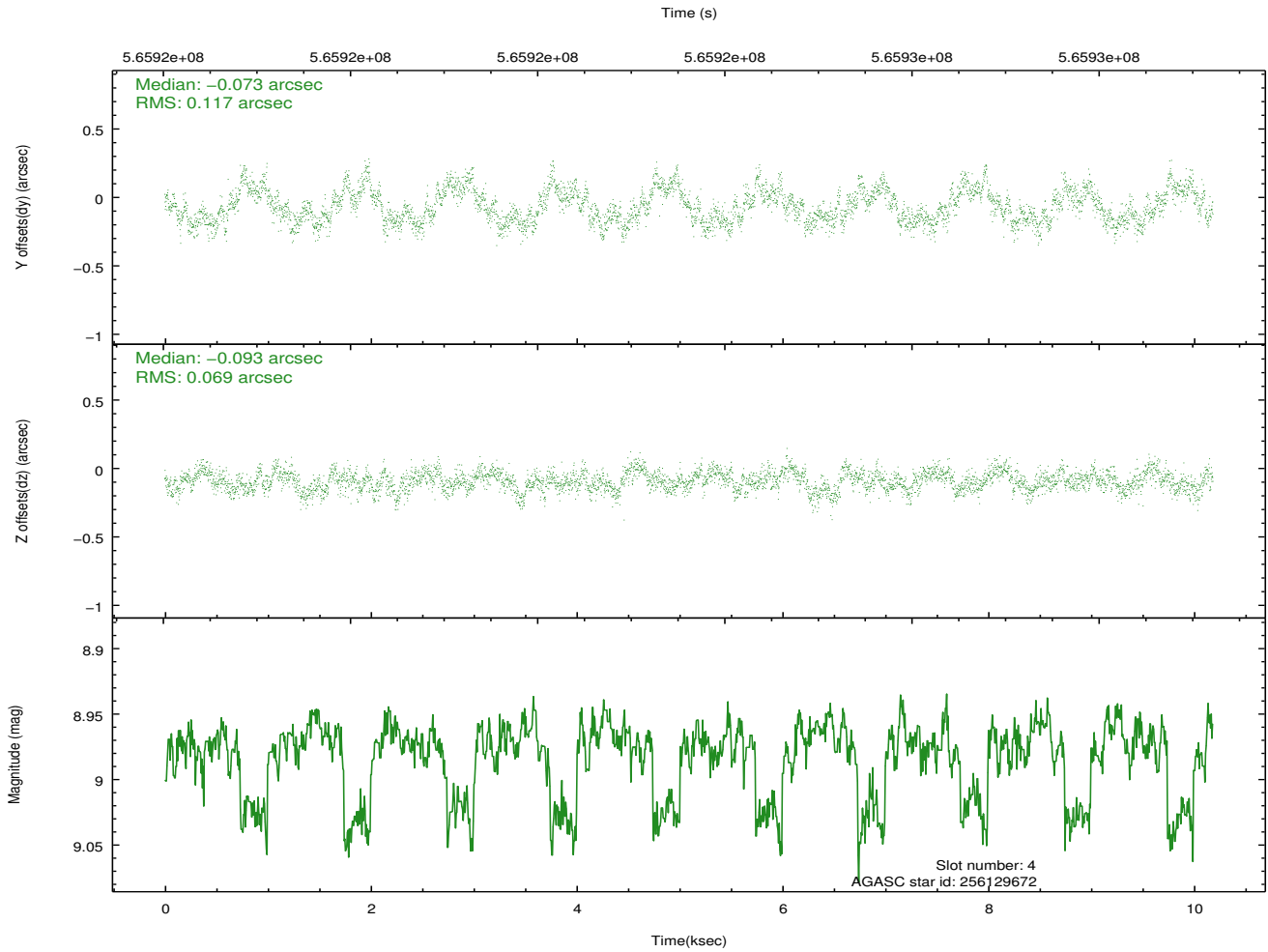
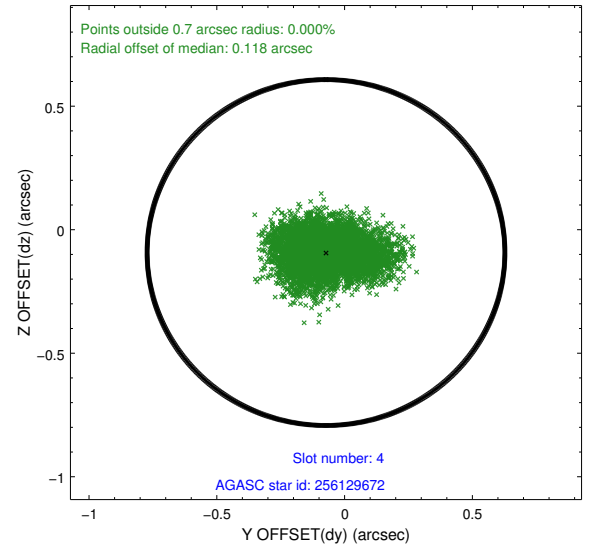
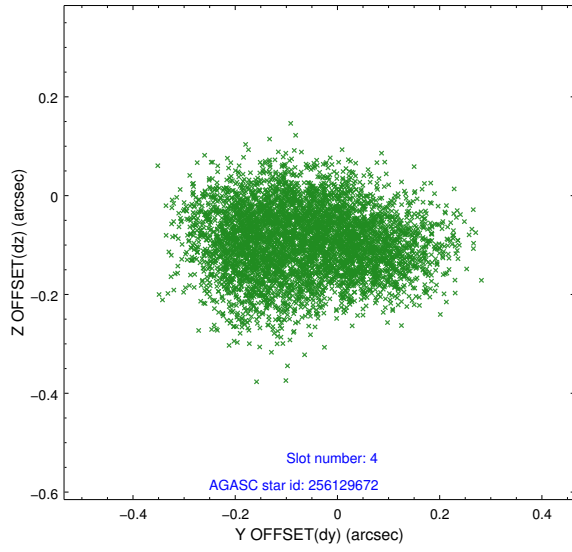
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	2484	-0.171	-0.159	0.008	0.013	0.000000	0.000000	-768.56	-1739.31
1	FID		ACIS-S-4	7.25	2484	0.449	0.125	0.006	0.011	0.000000	0.000000	2145.12	168.88
2	FID		ACIS-S-5	7.26	2484	-0.309	0.043	0.007	0.013	0.000000	0.000000	-1820.85	163.11
3	GUIDE	used	256125728	8.22	4968	0.066	-0.064	0.126	0.208	138.537880	25.292278	-897.12	2274.25
4	GUIDE	used	256129672	8.98	4963	-0.073	-0.093	0.145	0.230	139.461464	26.012528	2267.32	-110.03
5	GUIDE	used	256255608	8.11	4969	-0.158	0.231	0.217	0.351	140.089267	25.712057	1651.05	-2330.28
6	GUIDE	used	256260080	8.48	4969	0.198	0.401	0.105	0.168	139.875135	25.182506	-361.16	-2064.78
7	GUIDE	used	256129016	9.36	4964	-0.054	-0.457	0.153	0.252	138.656488	25.566959	149.79	2101.79

2.4 Star Slots

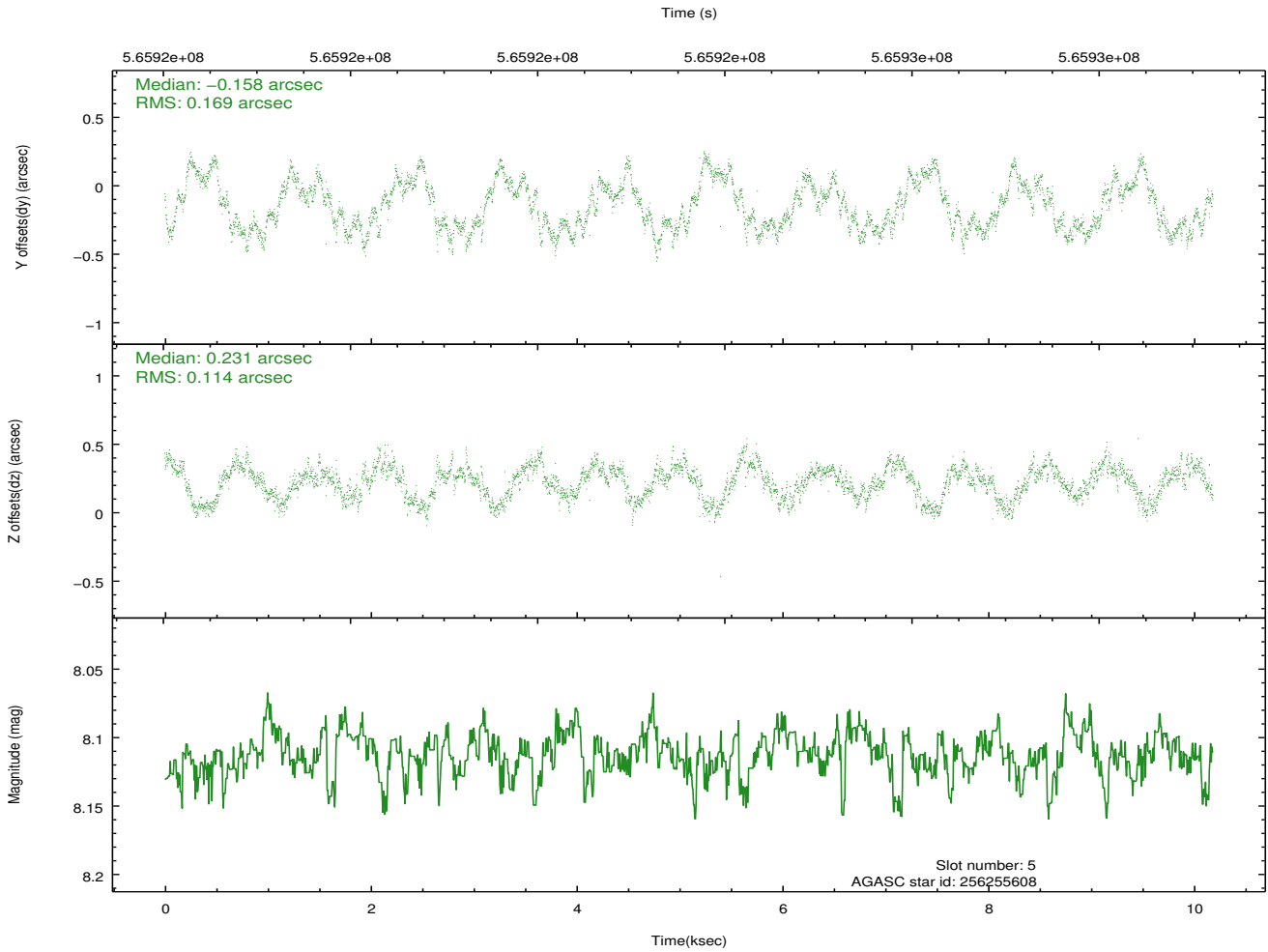
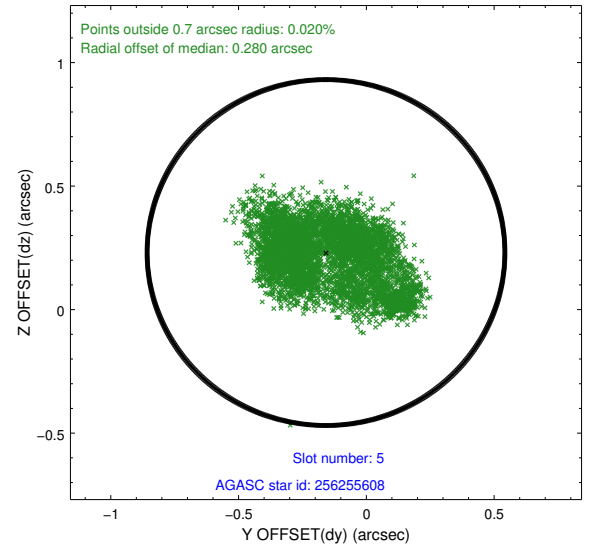
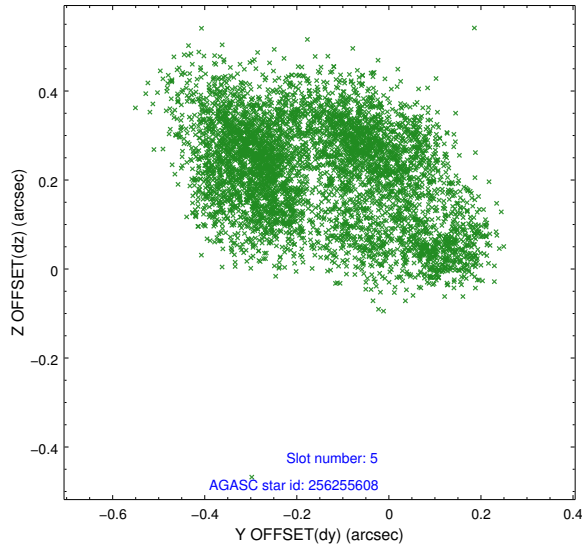
2.4.1 Slot 3



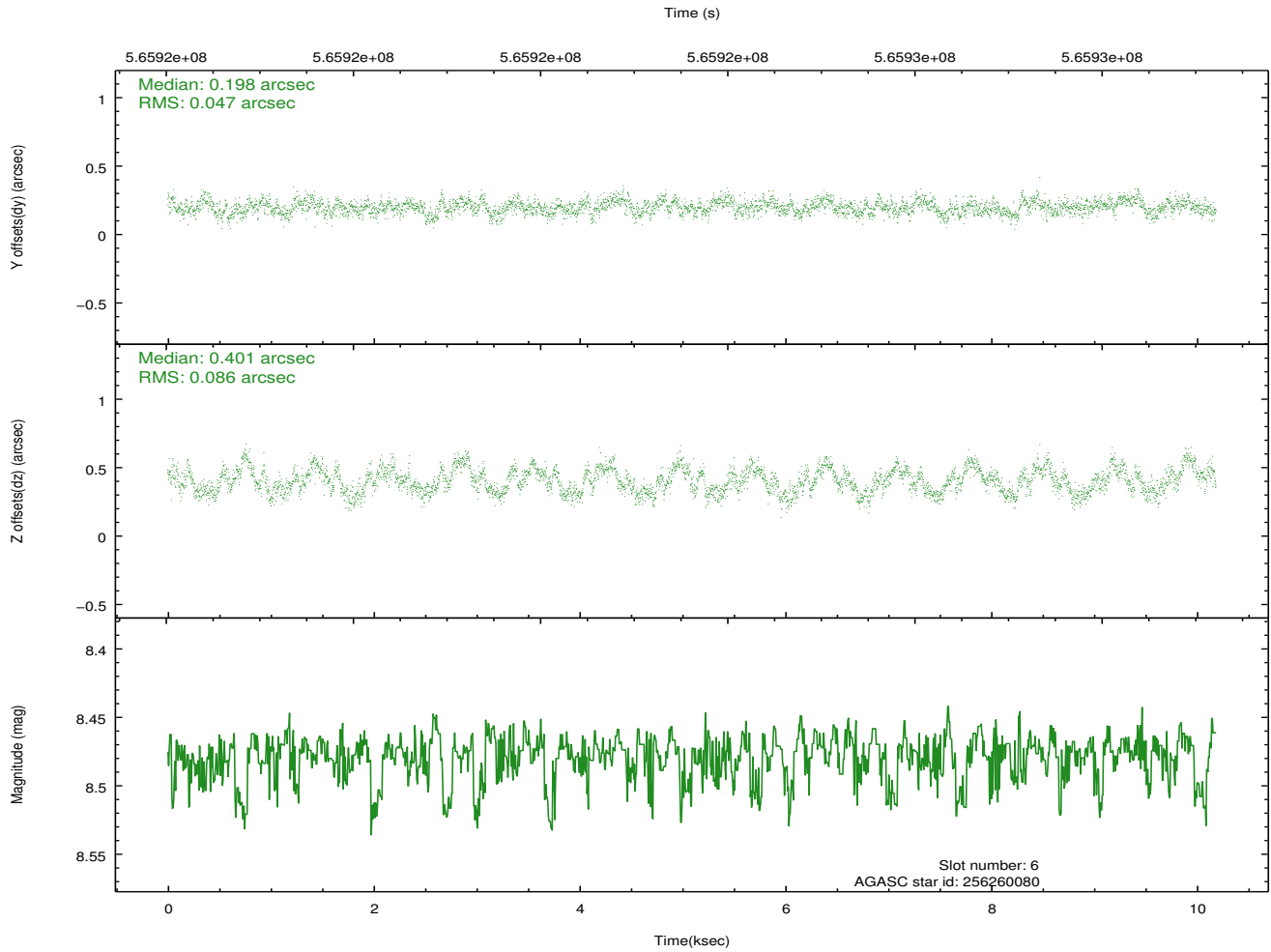
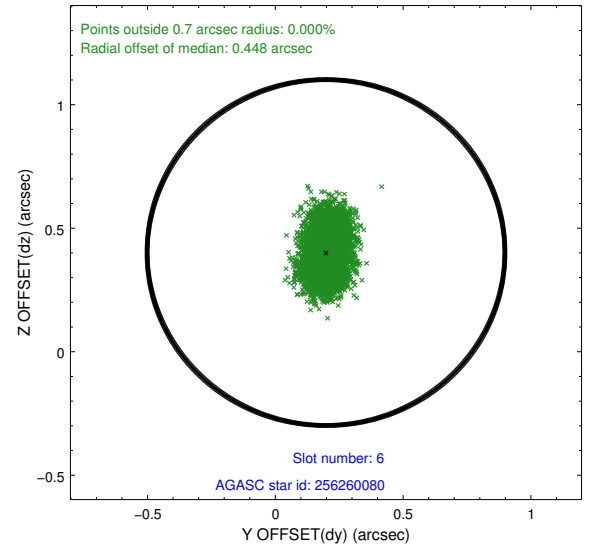
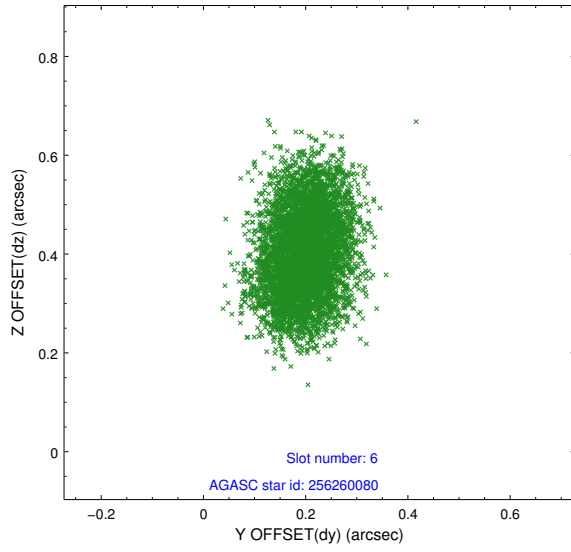
2.4.2 Slot 4



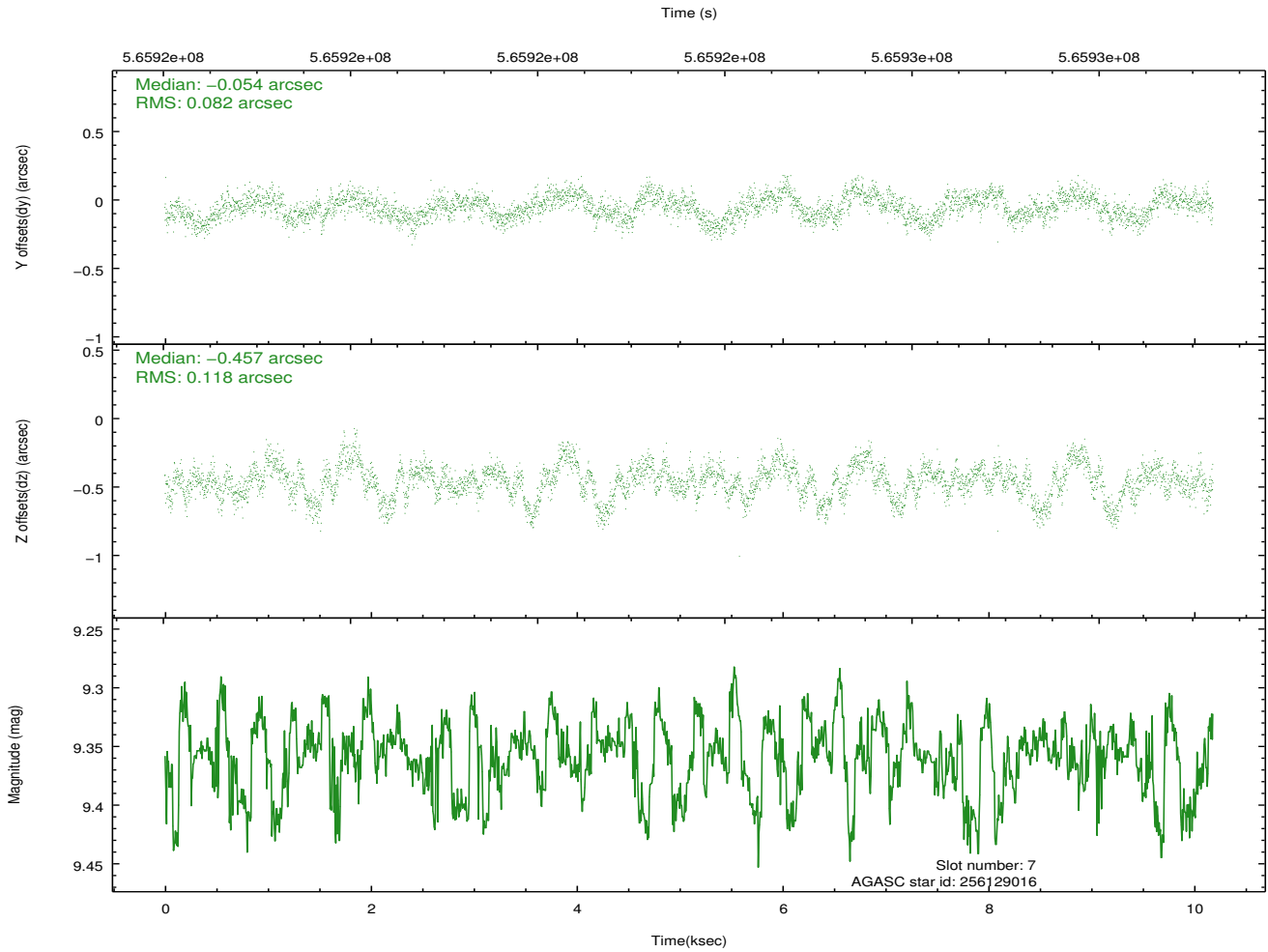
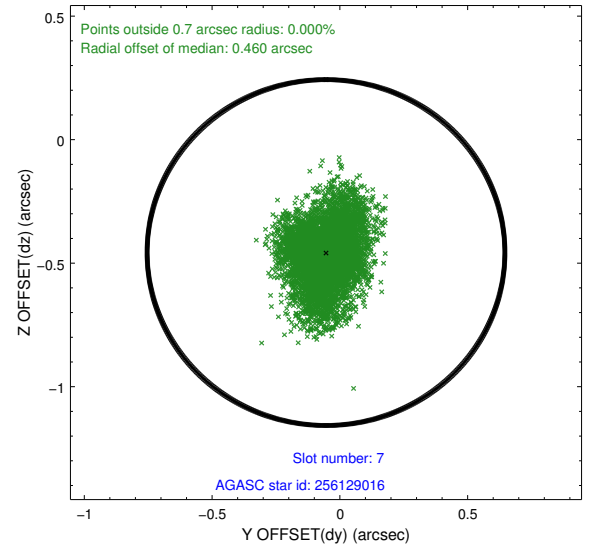
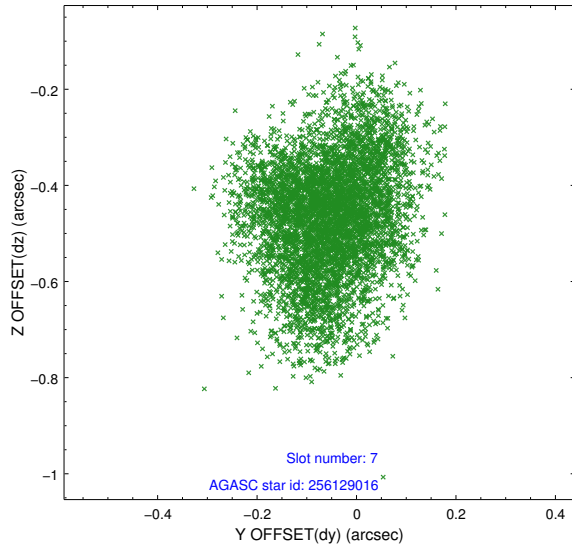
2.4.3 Slot 5



2.4.4 Slot 6

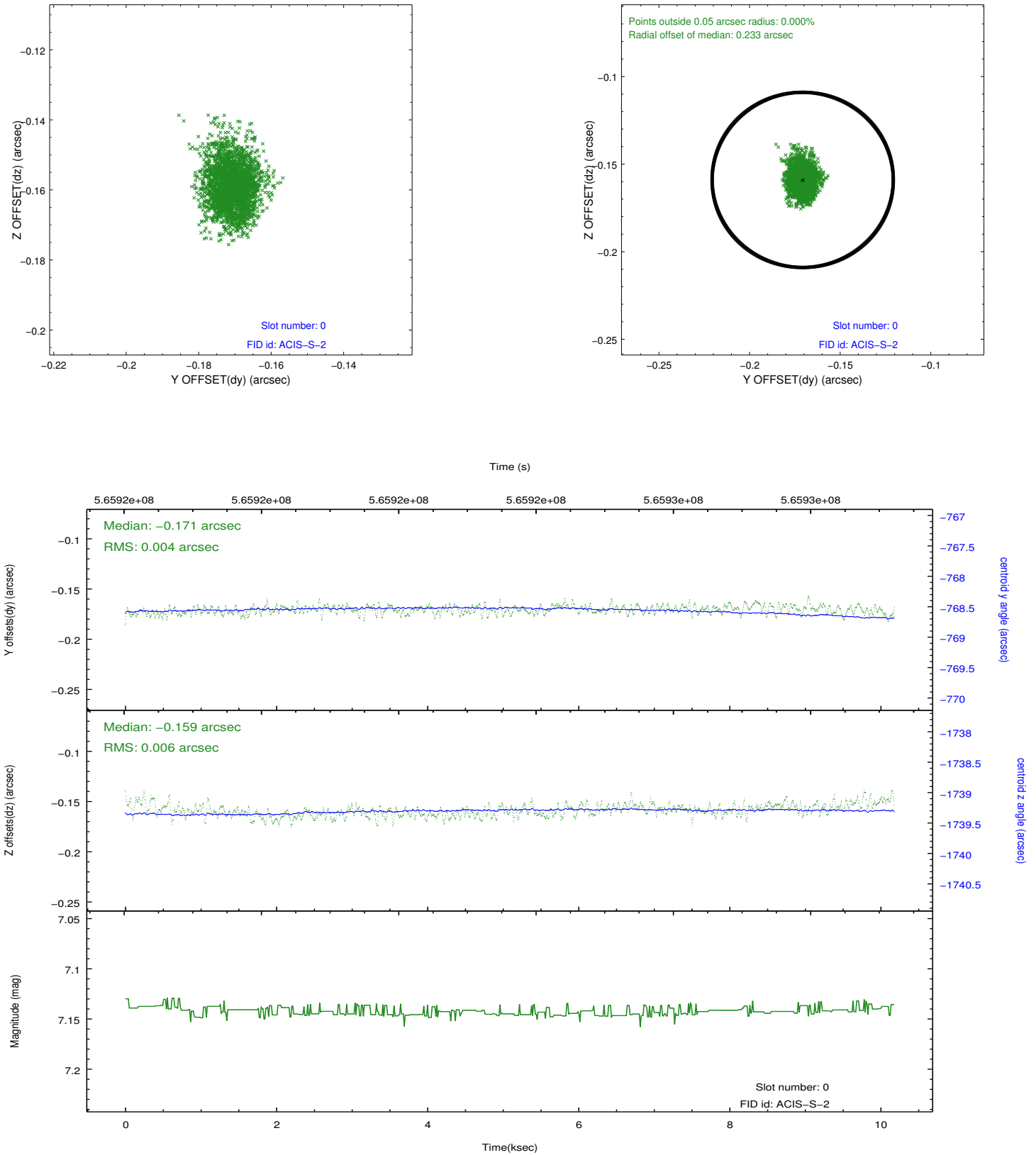


2.4.5 Slot 7

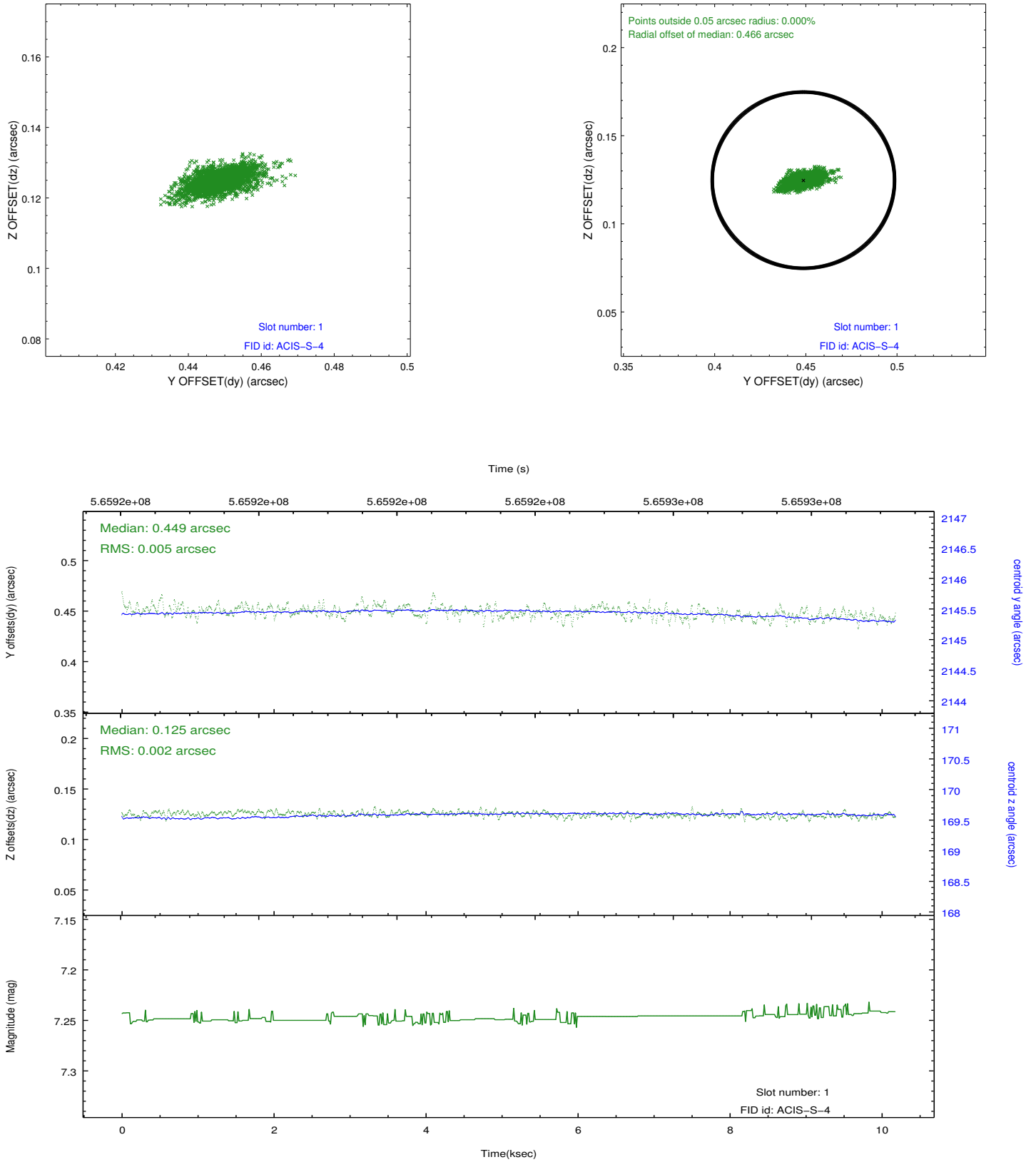


2.5 FID Slots

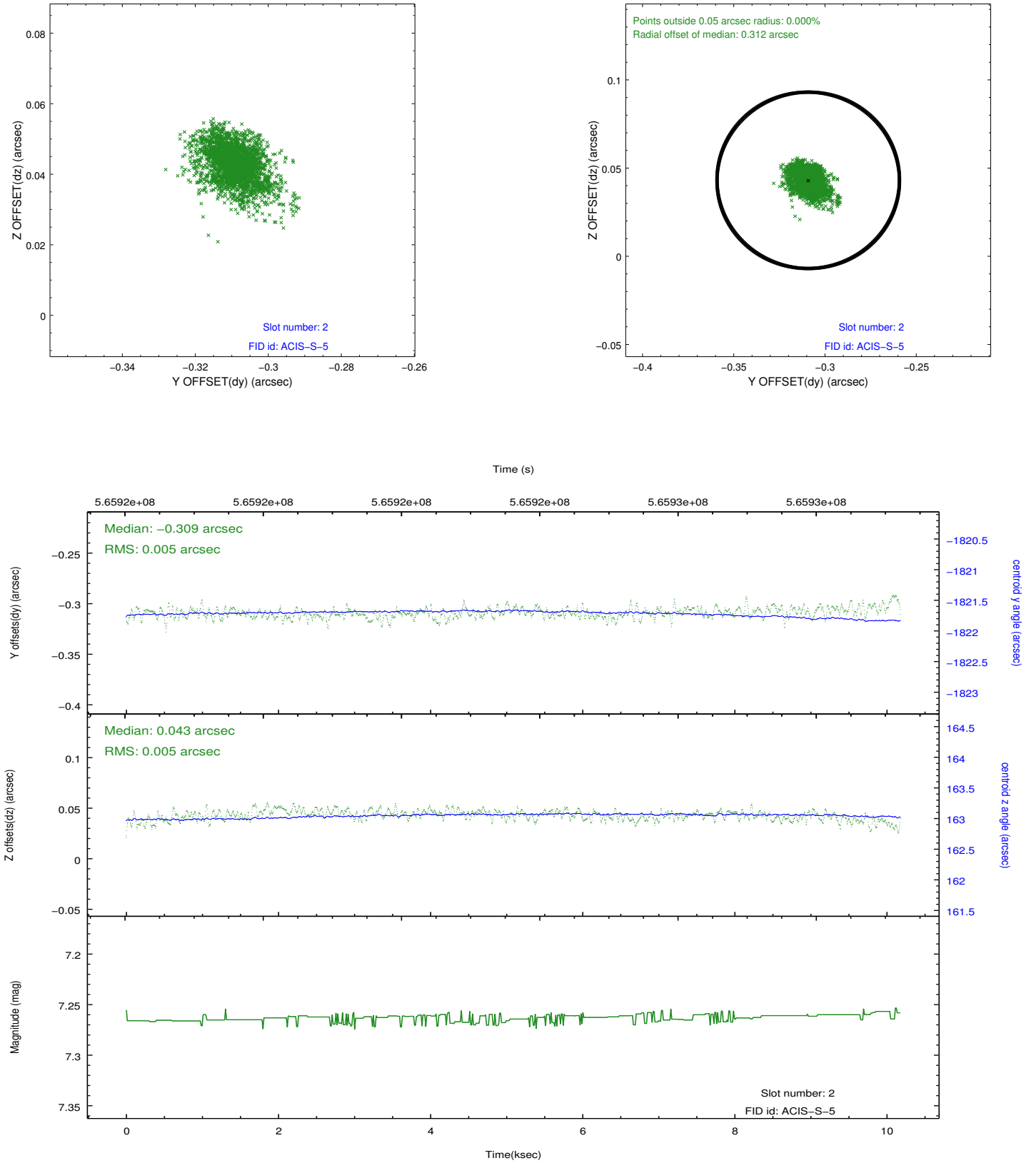
2.5.1 Slot 0



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)	2015.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.103400401592

A.2 Comments