

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19547 - L2 Version 1
Chandra X-Ray Center

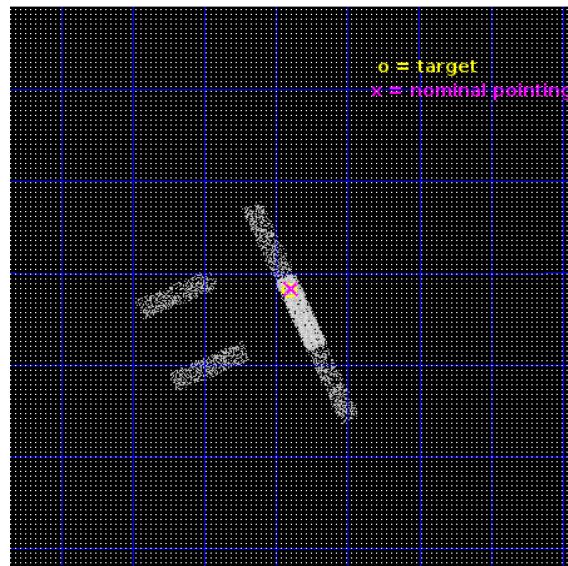
L2 Processing Date : Jan 31 2017

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1 Front

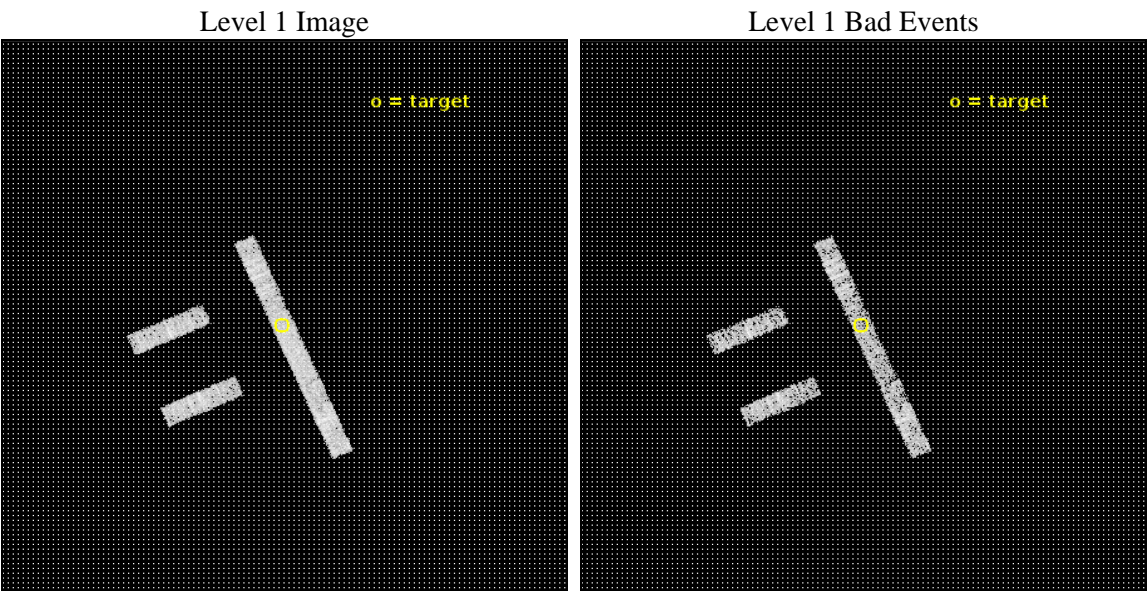
seq_num	703395	Sequence number
obs_id	19547	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ112224.15+031802.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	170.600833	Observer's specified target RA [deg]
dec_targ	3.300722	Observer's specified target Dec [deg]
ra_nom	170.5984899612	Nominal RA [deg]
dec_nom	3.3050037097554	Nominal Dec [deg]
roll_nom	66.190432527862	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3066.9873188734	Sum of GTIs [s]
livetime	2946.0801879596	Livetime [s]
ontime2	3066.8231588602	Sum of GTIs [s]
ontime3	3066.9052388668	Sum of GTIs [s]
ontime6	3066.9462789297	Sum of GTIs [s]
ontime7	3066.9873188734	Sum of GTIs [s]
ontime8	3066.8641989231	Sum of GTIs [s]
l2events	5671	Number of level 2 events



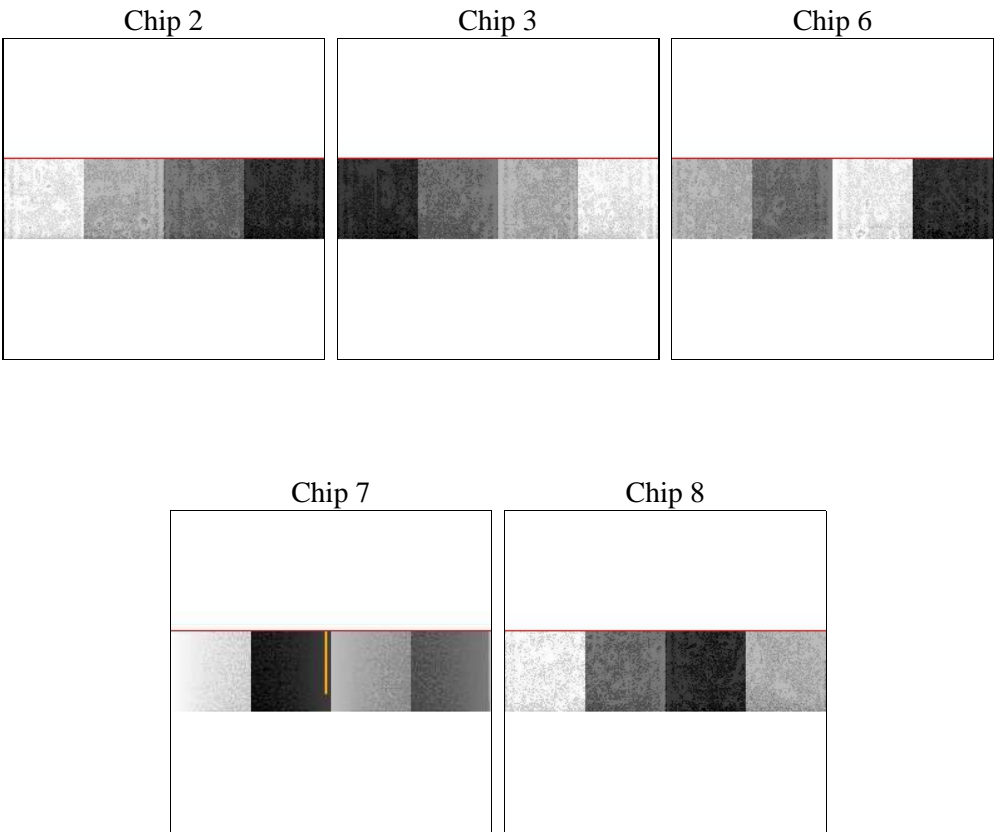
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 7



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3066.9873188734	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3066.8231588602	Sum of GTIs [s]
date	2017-01-31T05:59:56	Date and time of file creation	ontime3	3066.9052388668	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3066.9462789297	Sum of GTIs [s]
			ontime7	3066.9873188734	Sum of GTIs [s]
			ontime8	3066.8641989231	Sum of GTIs [s]
			l1events	36149	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6290	6578	7125	7821	8335
rejected events	5627	5900	6394	4352	6473
rejected %	89%	89%	89%	55%	77%

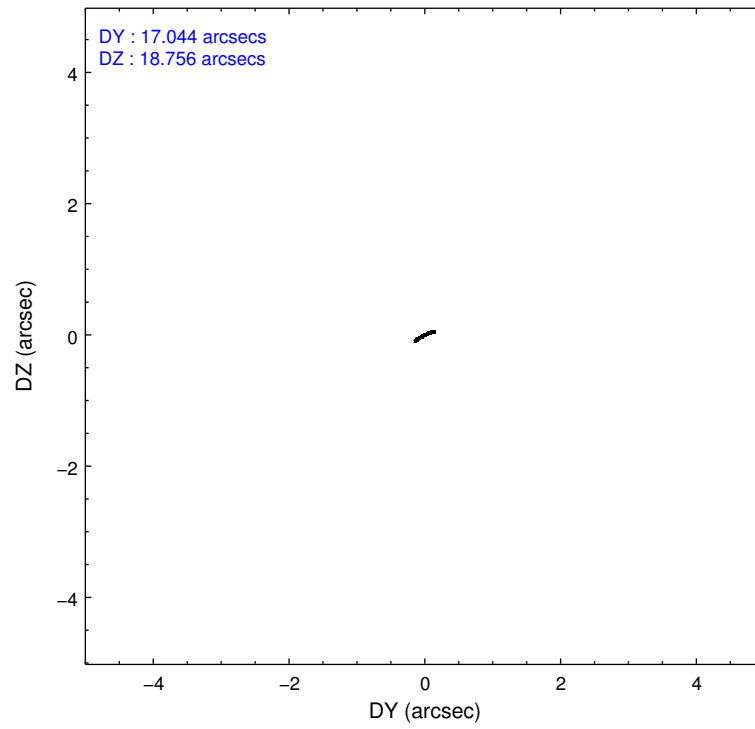
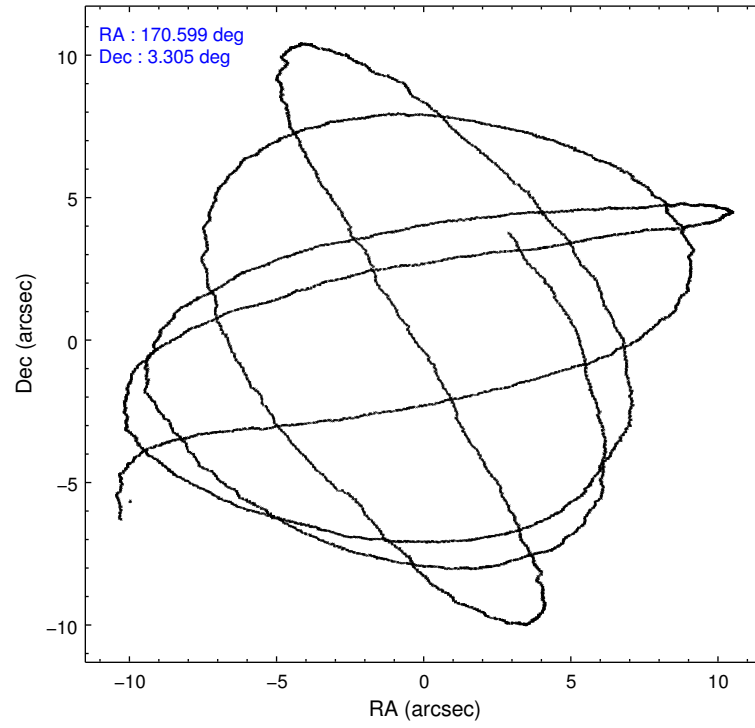
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	203	194	230	335	465
	3%	2%	3%	4%	5%
grade 1 events	1	4	2	16	3
	0%	0%	0%	0%	0%
grade 2 events	146	138	128	695	469
	2%	2%	1%	8%	5%
grade 3 events	103	101	98	332	201
	1%	1%	1%	4%	2%
grade 4 events	91	101	95	364	171
	1%	1%	1%	4%	2%
grade 5 events	198	268	275	778	379
	3%	4%	3%	9%	4%
grade 6 events	120	145	180	1745	556
	1%	2%	2%	22%	6%
grade 7 events	5428	5627	6117	3556	6091
	86%	85%	85%	45%	73%

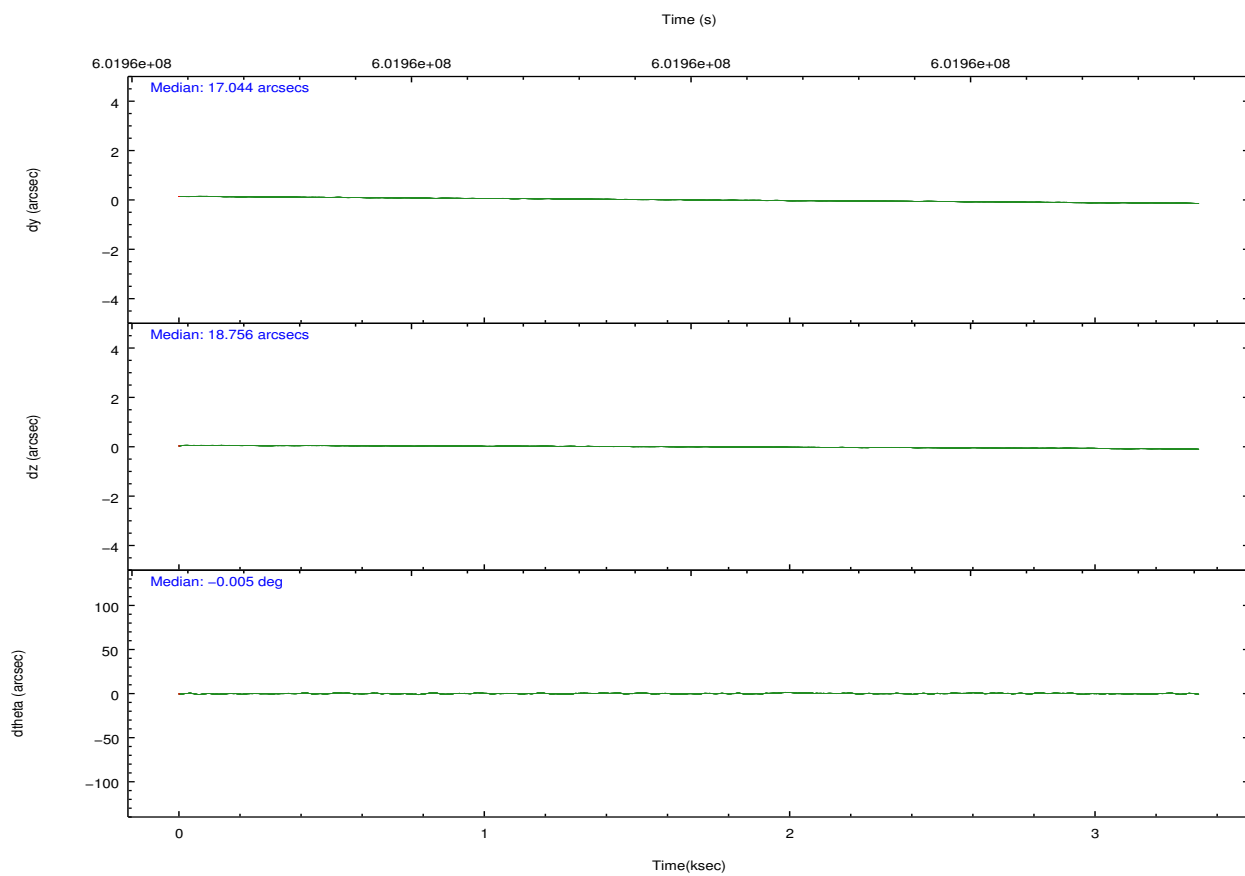
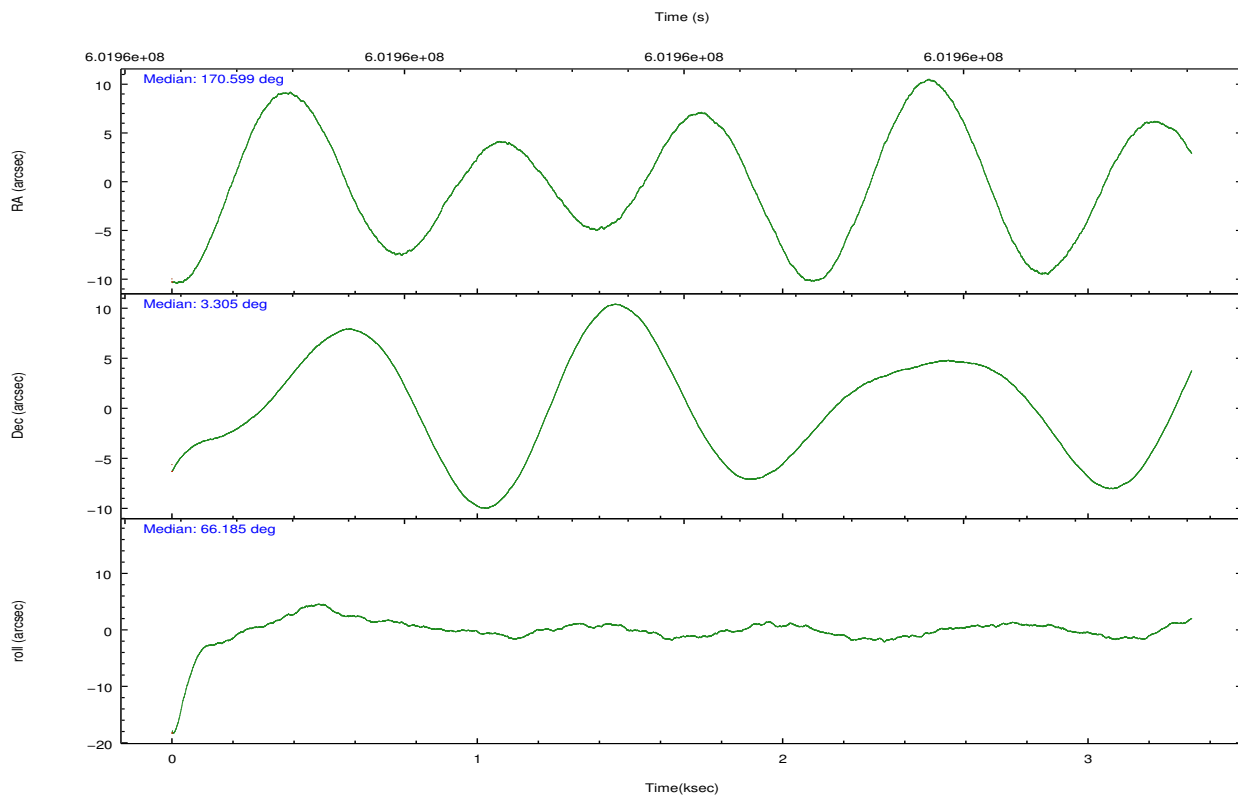
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	170.601820	170.5984899612045
[deg] Pointing Dec	3.277848	3.305003709755401
[deg] Pointing Roll	66.033658	66.19043252786243
[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)	601959655.184000	601958889.5865099
Observation start date	2017-01-28T02:59:46	2017-01-28T02:48:09
[s] Observation end time (MET)	601962655.184000	601963627.64929
Observation end date	2017-01-28T03:49:46	2017-01-28T04:07:07
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	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



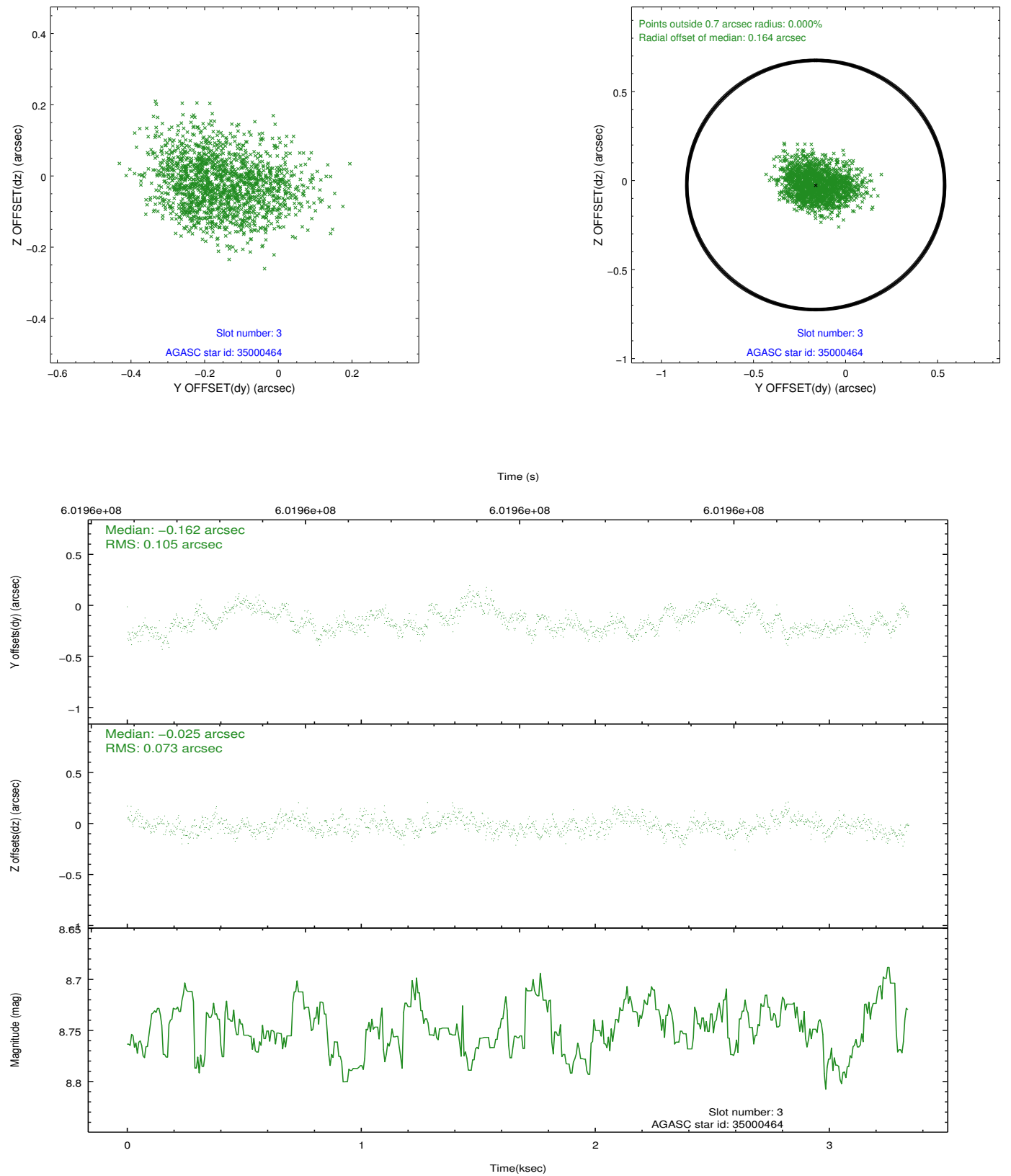


Slot Statistics

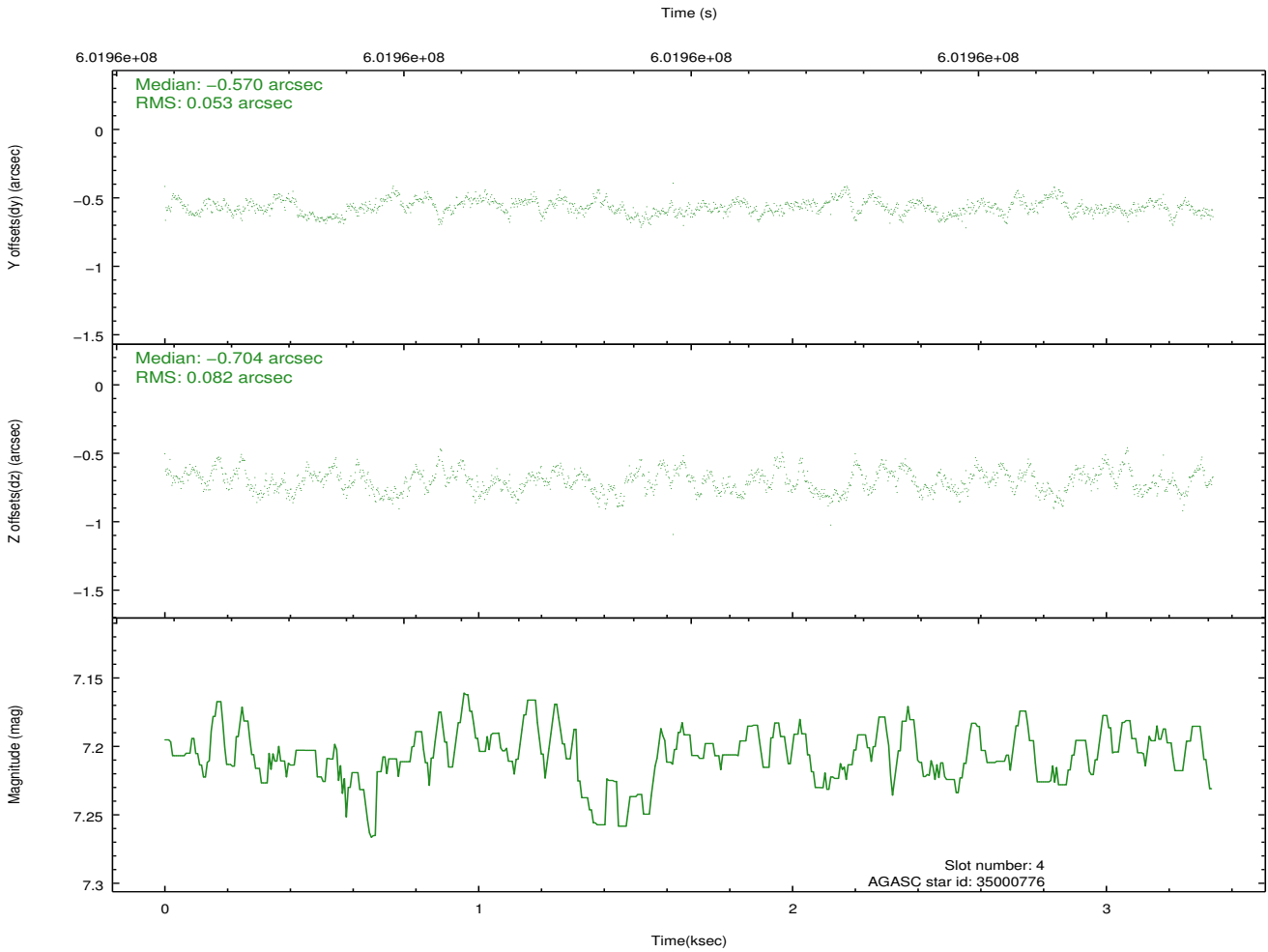
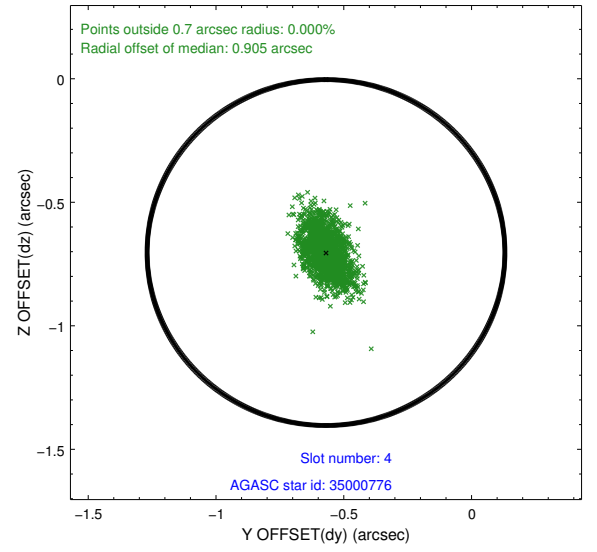
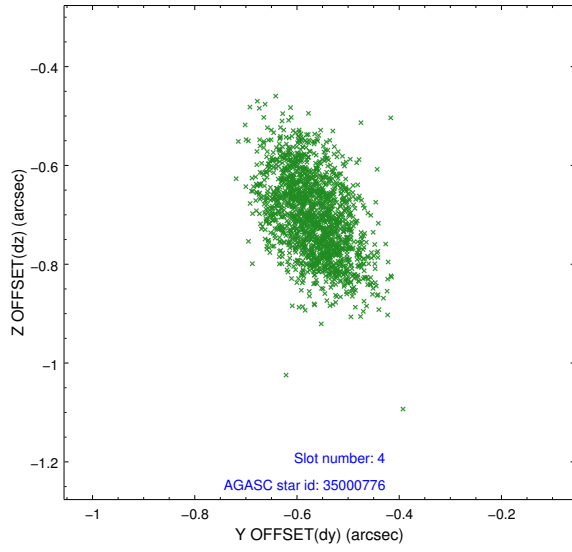
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	815	-0.188	-0.132	0.007	0.011	0.000000	0.000000	-770.24	-1740.32
1	FID		ACIS-S-4	7.24	814	0.464	0.126	0.005	0.010	0.000000	0.000000	2142.79	166.47
2	FID		ACIS-S-5	7.23	815	-0.307	0.015	0.006	0.012	0.000000	0.000000	-1820.79	162.16
3	GUIDE	used	35000464	8.75	1629	-0.162	-0.025	0.136	0.218	170.965623	3.618933	1651.12	-694.03
4	GUIDE	used	35000776	7.21	1629	-0.570	-0.704	0.101	0.170	170.371940	3.937464	1835.59	1718.62
5	GUIDE	used	35003504	8.85	1630	0.103	0.534	0.137	0.232	171.171006	2.901392	-404.60	-2418.46
6	GUIDE	used	35003976	9.49	1626	0.412	0.299	0.217	0.343	170.805359	3.159228	-92.70	-842.76
7	GUIDE	used	35005688	7.98	1629	0.193	-0.118	0.089	0.152	170.201331	2.862270	-1951.10	707.72

2.4 Star Slots

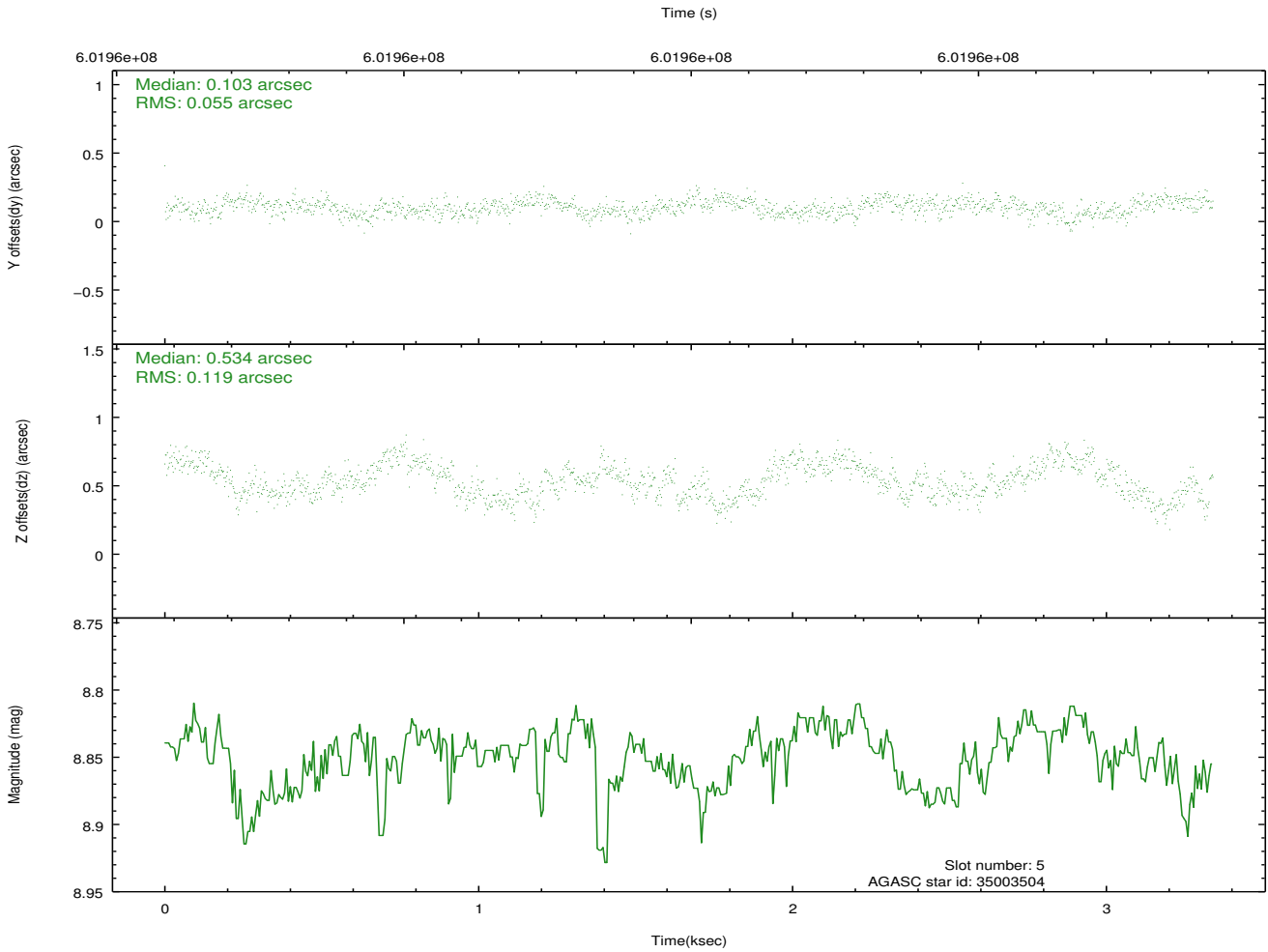
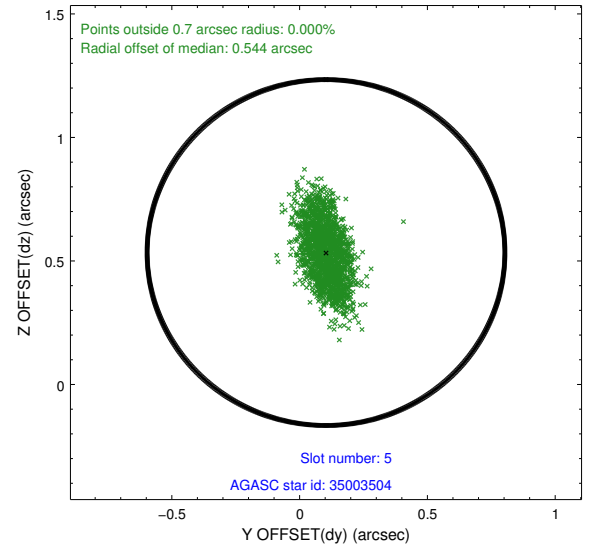
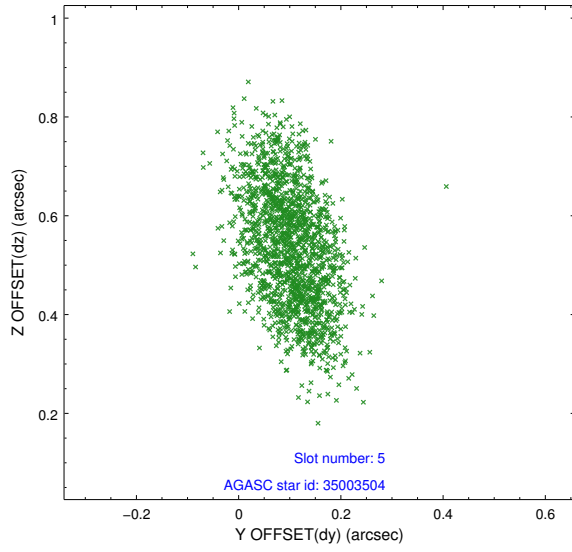
2.4.1 Slot 3



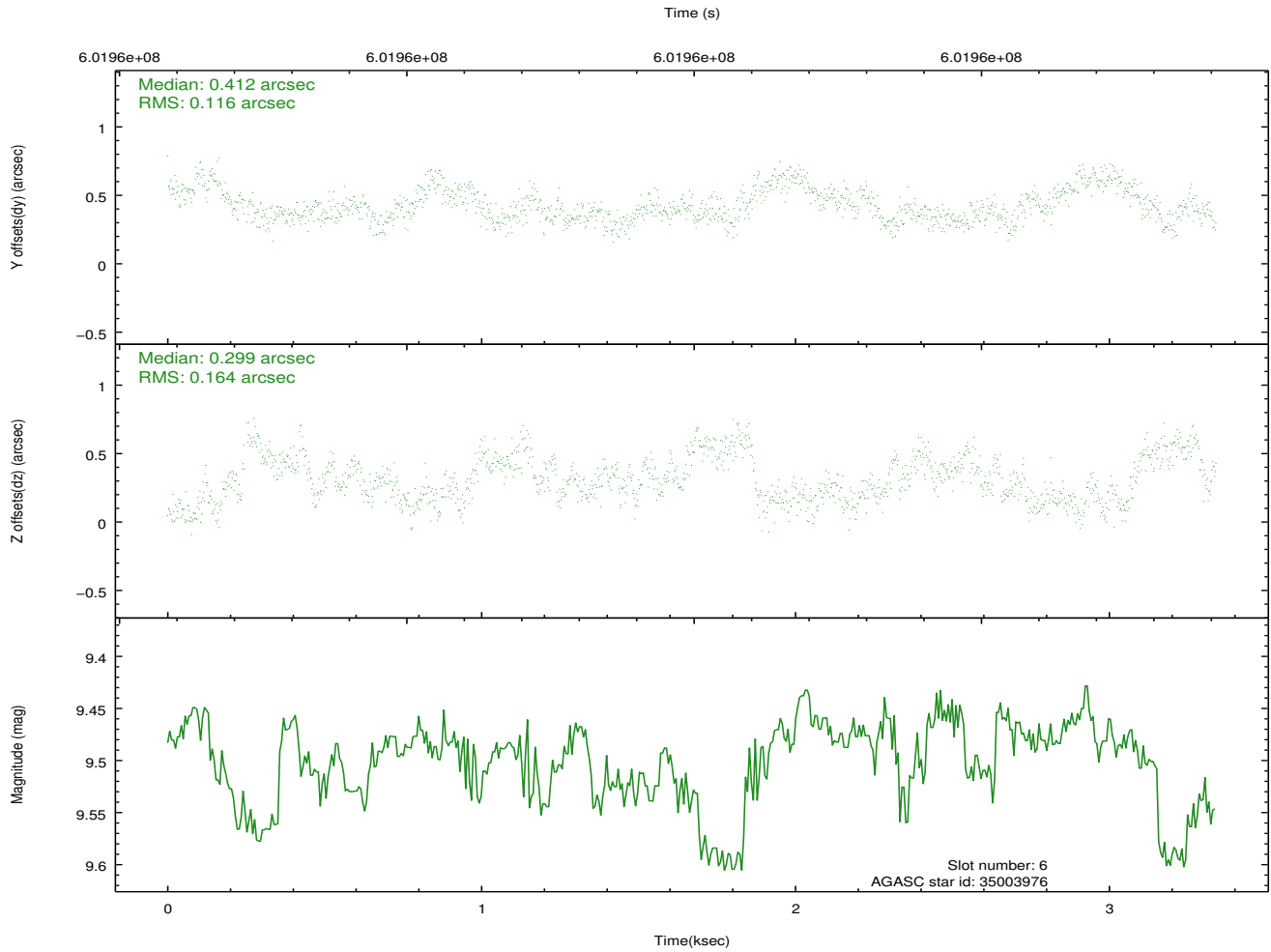
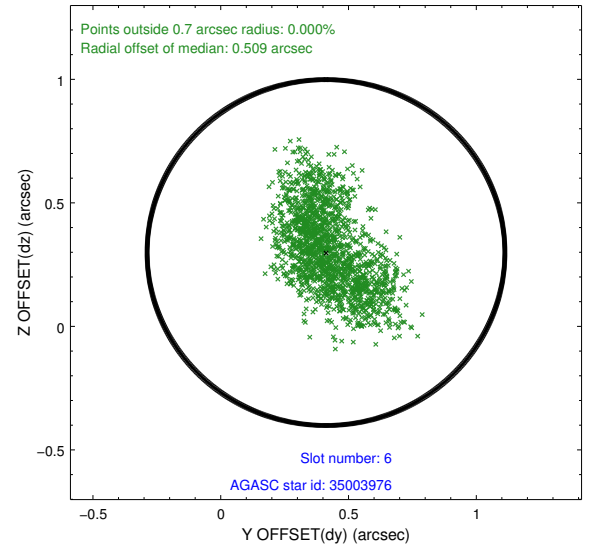
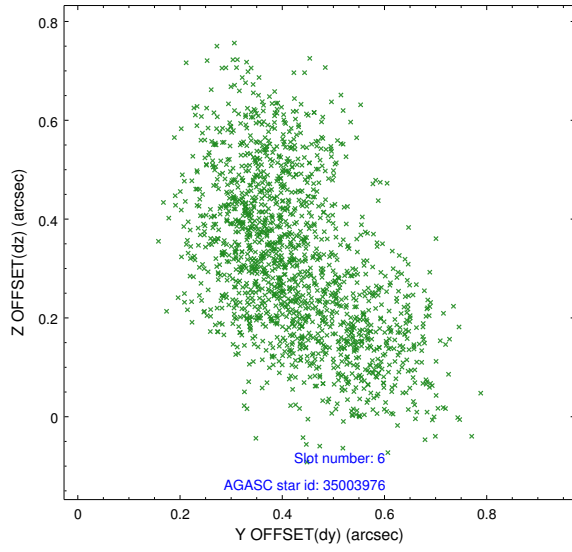
2.4.2 Slot 4



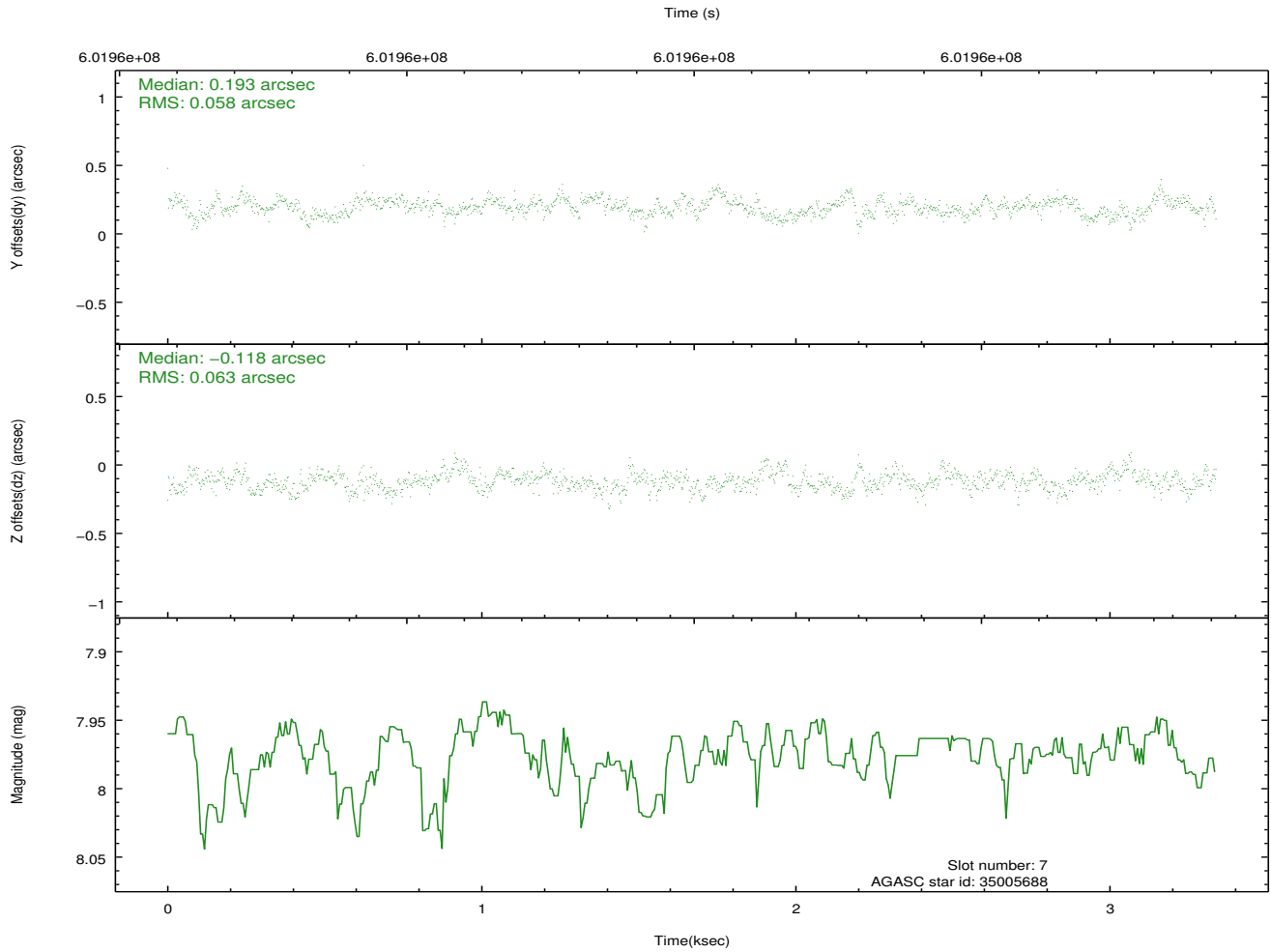
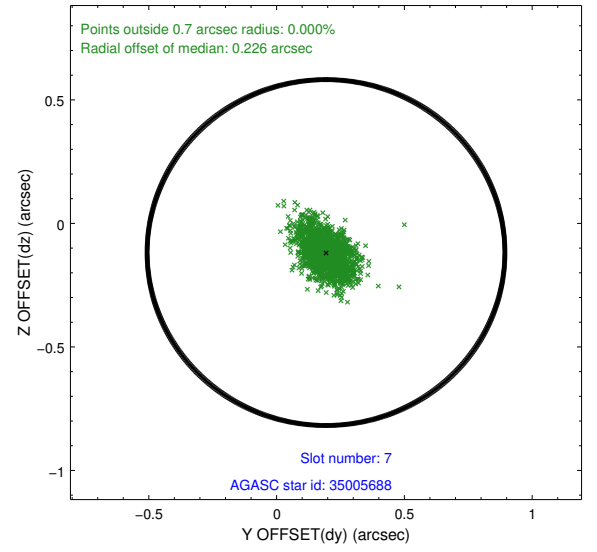
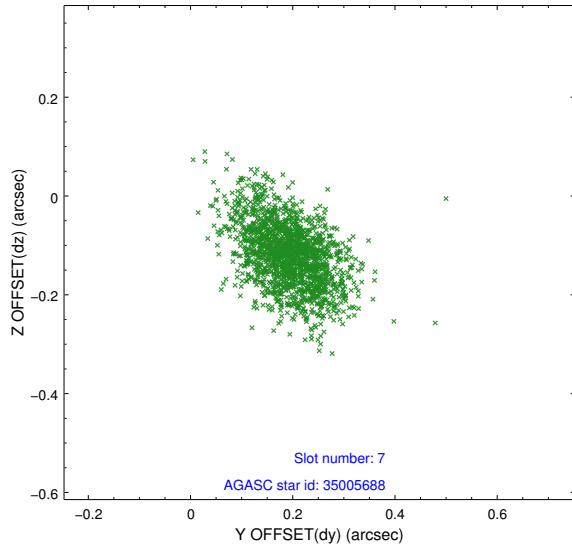
2.4.3 Slot 5



2.4.4 Slot 6

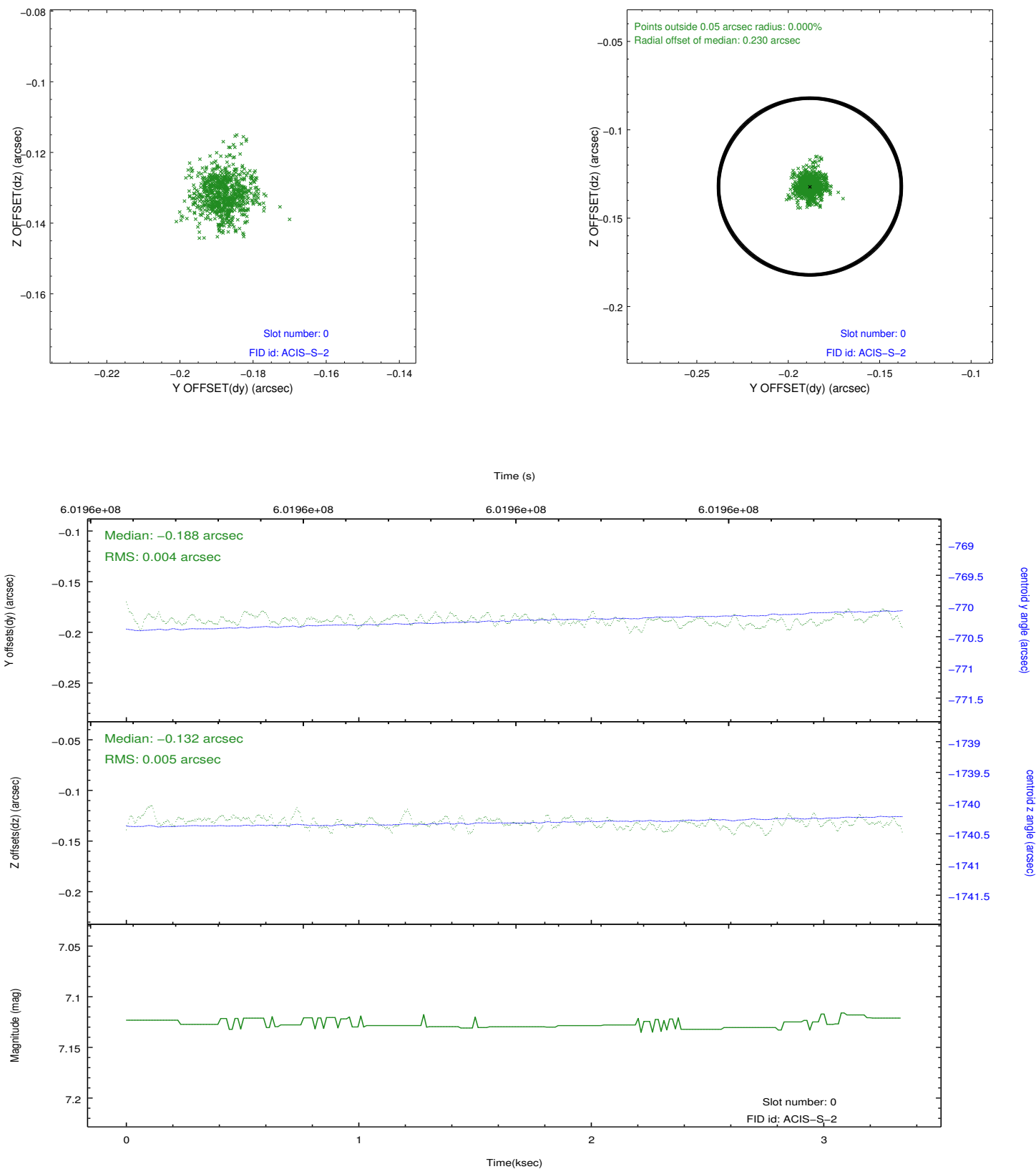


2.4.5 Slot 7

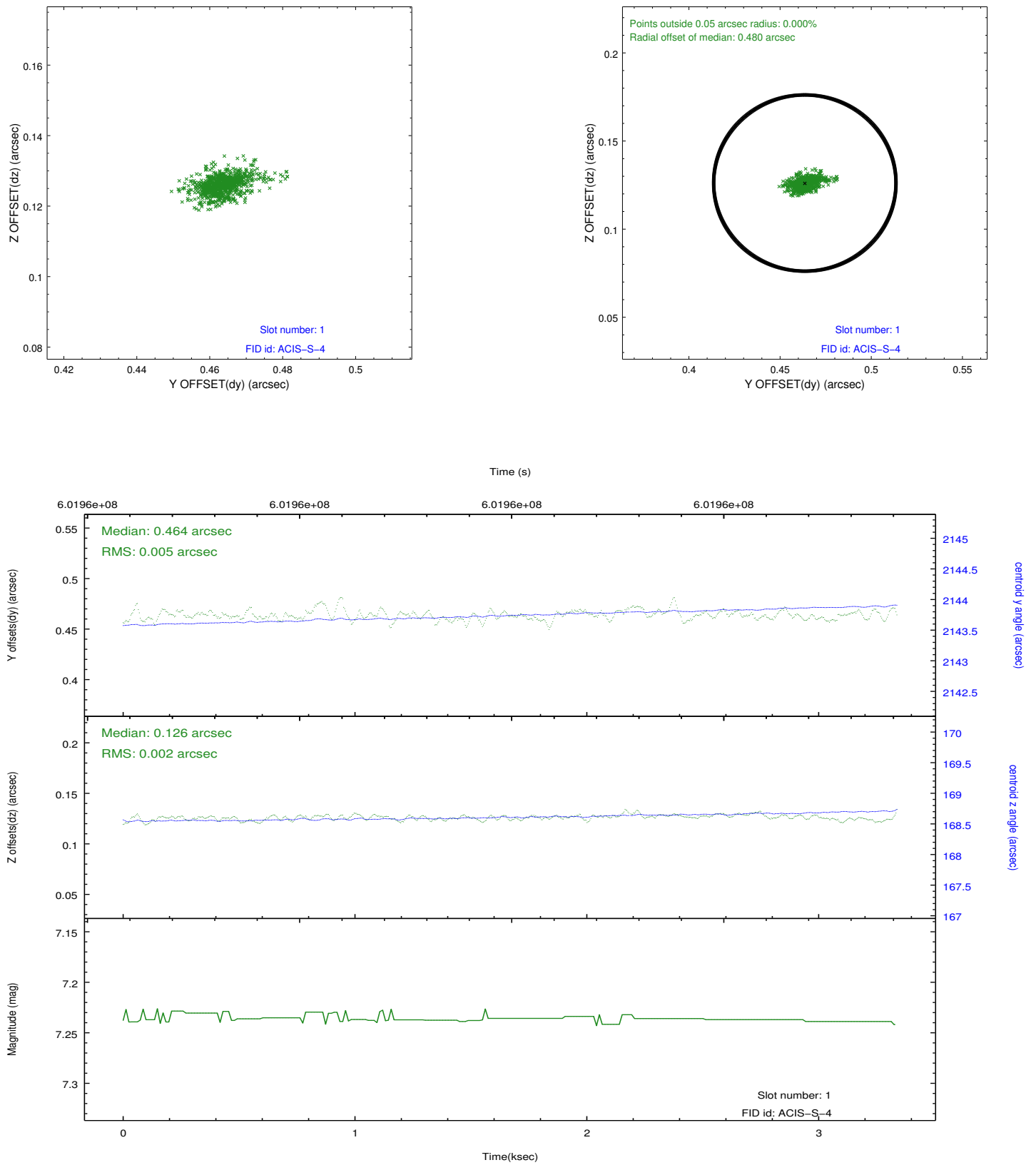


2.5 FID Slots

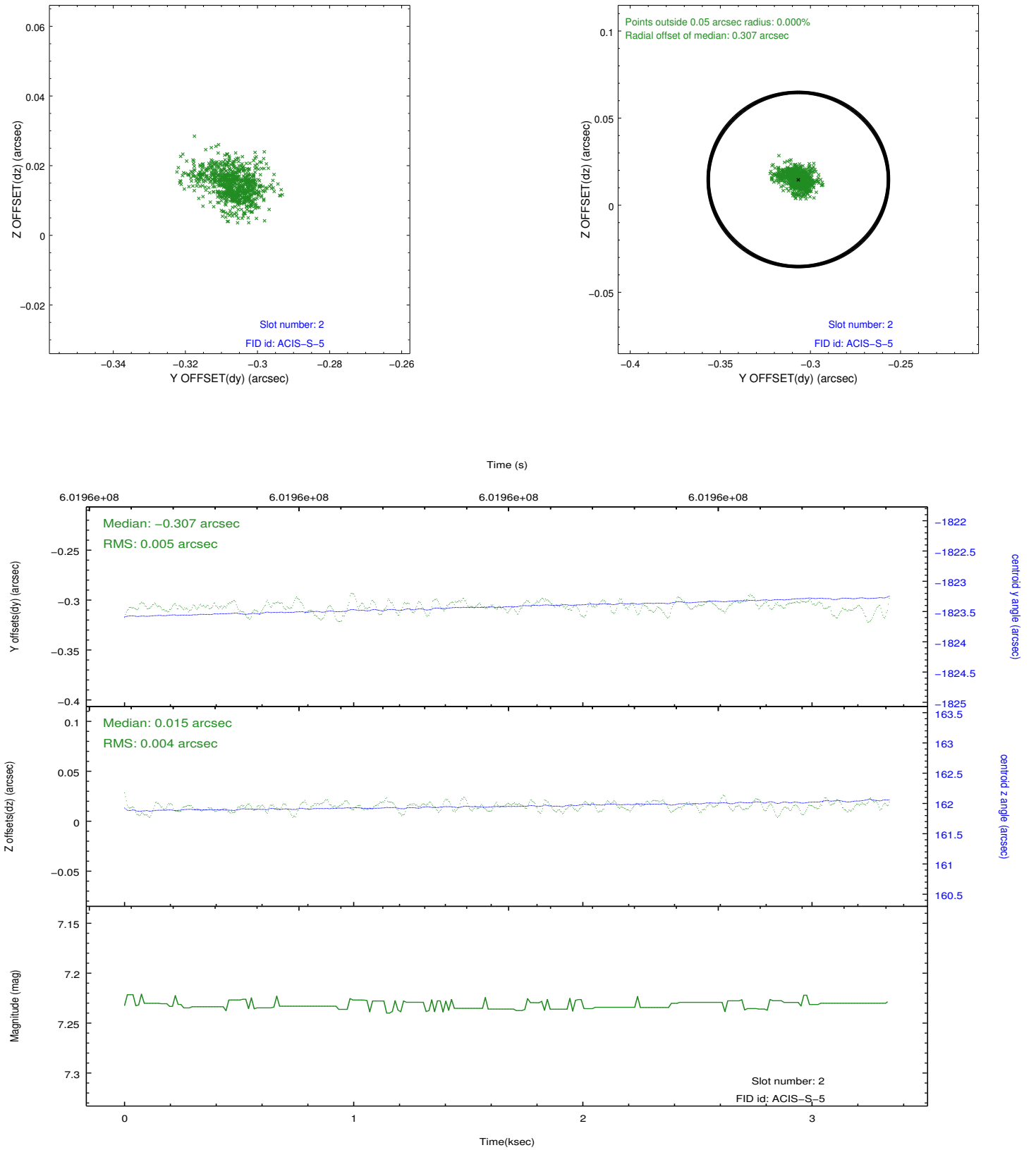
2.5.1 Slot 0



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)	2017.01.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0669873188734

A.2 Comments