

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19549 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 30 2017

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1 Front

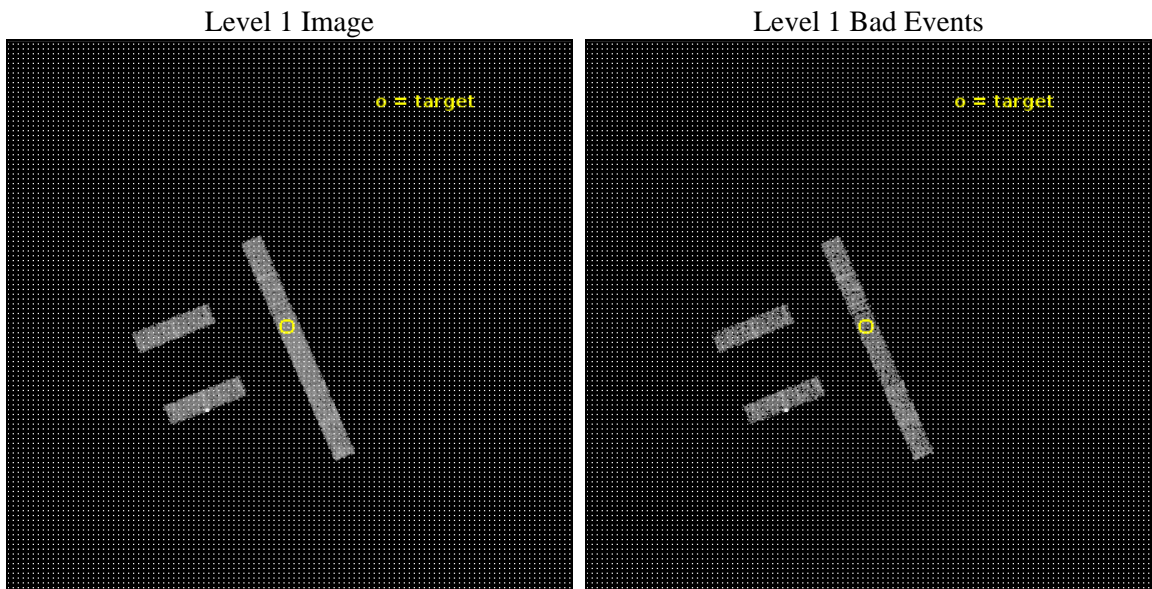
seq_num	703397	Sequence number
obs_id	19549	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ113327.78+032719.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.365833	Observer's specified target RA [deg]
dec_targ	3.455389	Observer's specified target Dec [deg]
ra_nom	173.36339118986	Nominal RA [deg]
dec_nom	3.461366400009	Nominal Dec [deg]
roll_nom	67.343026284738	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3569.7818350792	Sum of GTIs [s]
livetime	3429.0534802498	Livetime [s]
ontime2	3569.617675066	Sum of GTIs [s]
ontime3	3569.6997550726	Sum of GTIs [s]
ontime6	3569.7407951355	Sum of GTIs [s]
ontime7	3569.7818350792	Sum of GTIs [s]
ontime8	3569.6587151289	Sum of GTIs [s]
l2events	7355	Number of level 2 events



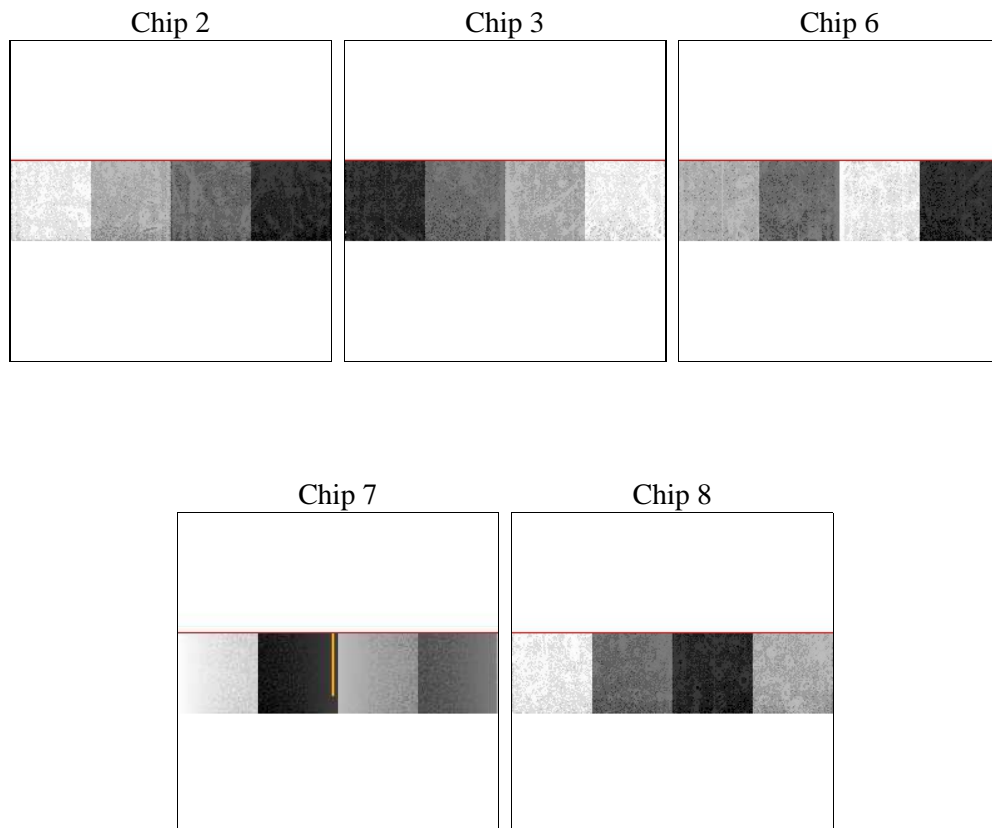
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3569.7818350792	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	3569.617675066	Sum of GTIs [s]
date	2017-01-31T03:49:08	Date and time of file creation	ontime3	3569.6997550726	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3569.7407951355	Sum of GTIs [s]
			ontime7	3569.7818350792	Sum of GTIs [s]
			ontime8	3569.6587151289	Sum of GTIs [s]
			l1events	44011	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6726	10232	7738	9634	9681
rejected events	5933	9389	6912	4851	7325
rejected %	88%	91%	89%	50%	75%

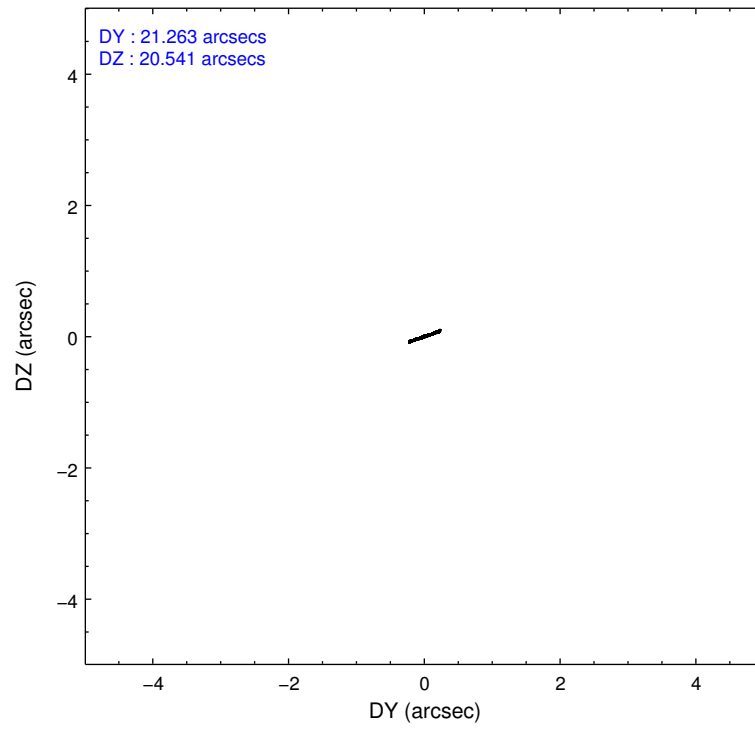
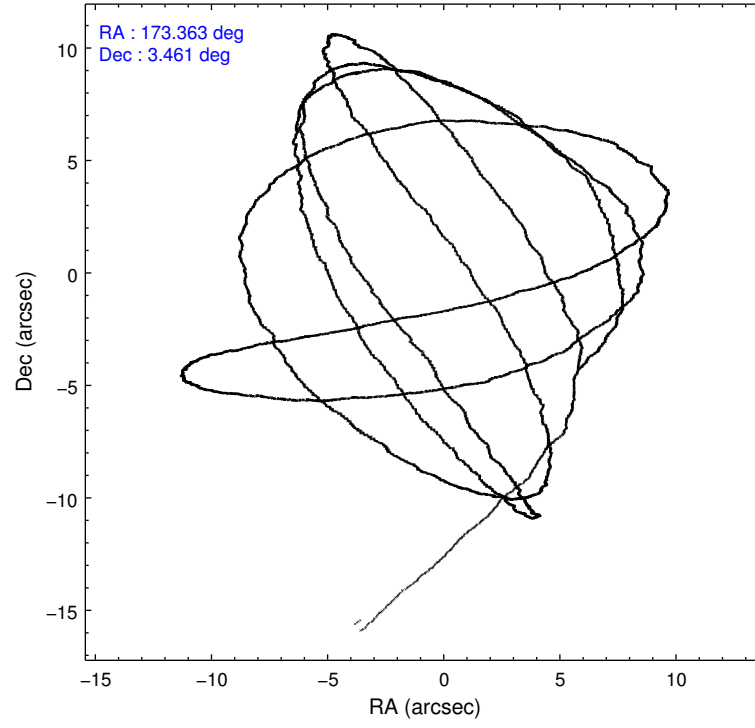
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	242	272	251	610	588
	3%	2%	3%	6%	6%
grade 1 events	0	1110	2	19	5
	0%	10%	0%	0%	0%
grade 2 events	173	153	157	1038	606
	2%	1%	2%	10%	6%
grade 3 events	119	132	134	525	246
	1%	1%	1%	5%	2%
grade 4 events	128	120	116	459	231
	1%	1%	1%	4%	2%
grade 5 events	255	1886	347	943	481
	3%	18%	4%	9%	4%
grade 6 events	131	166	168	2154	686
	1%	1%	2%	22%	7%
grade 7 events	5678	6393	6563	3886	6838
	84%	62%	84%	40%	70%

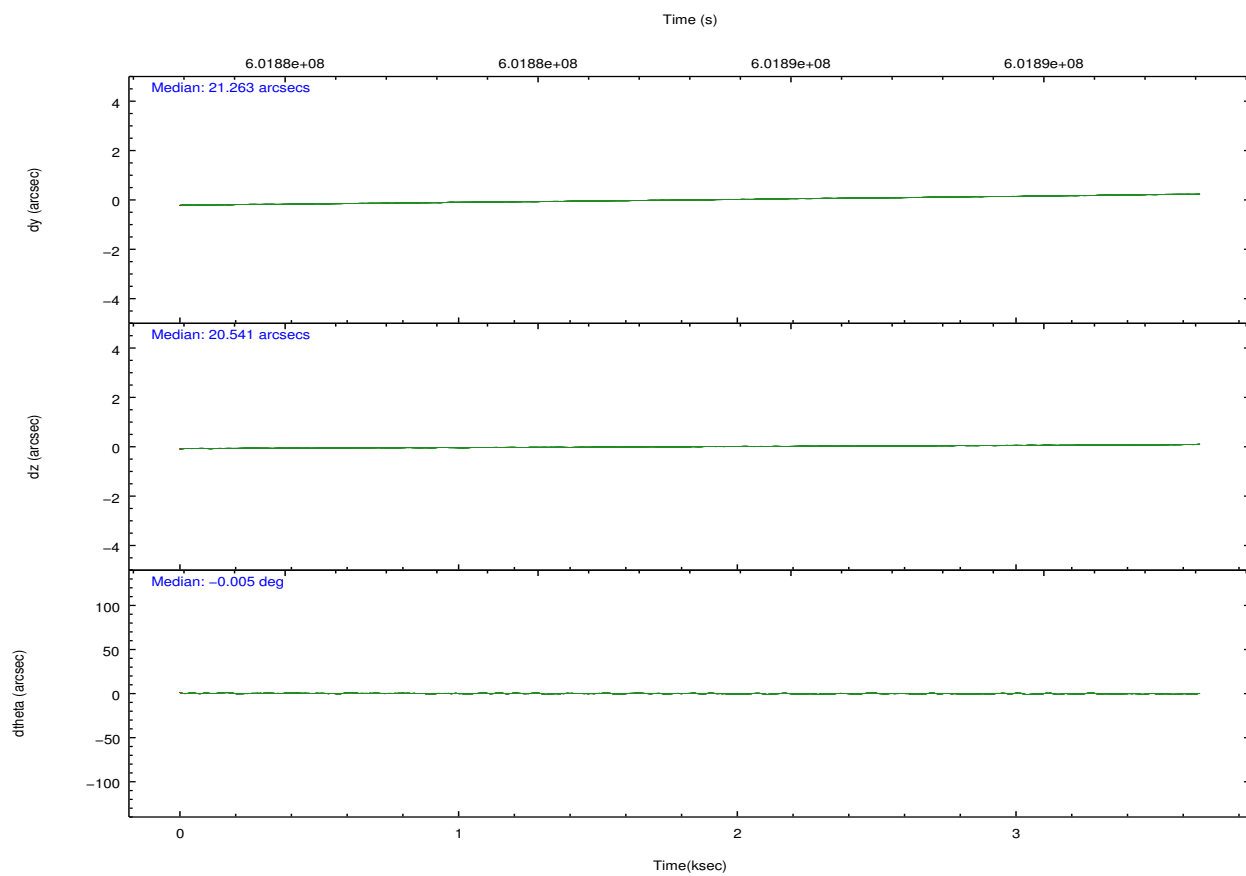
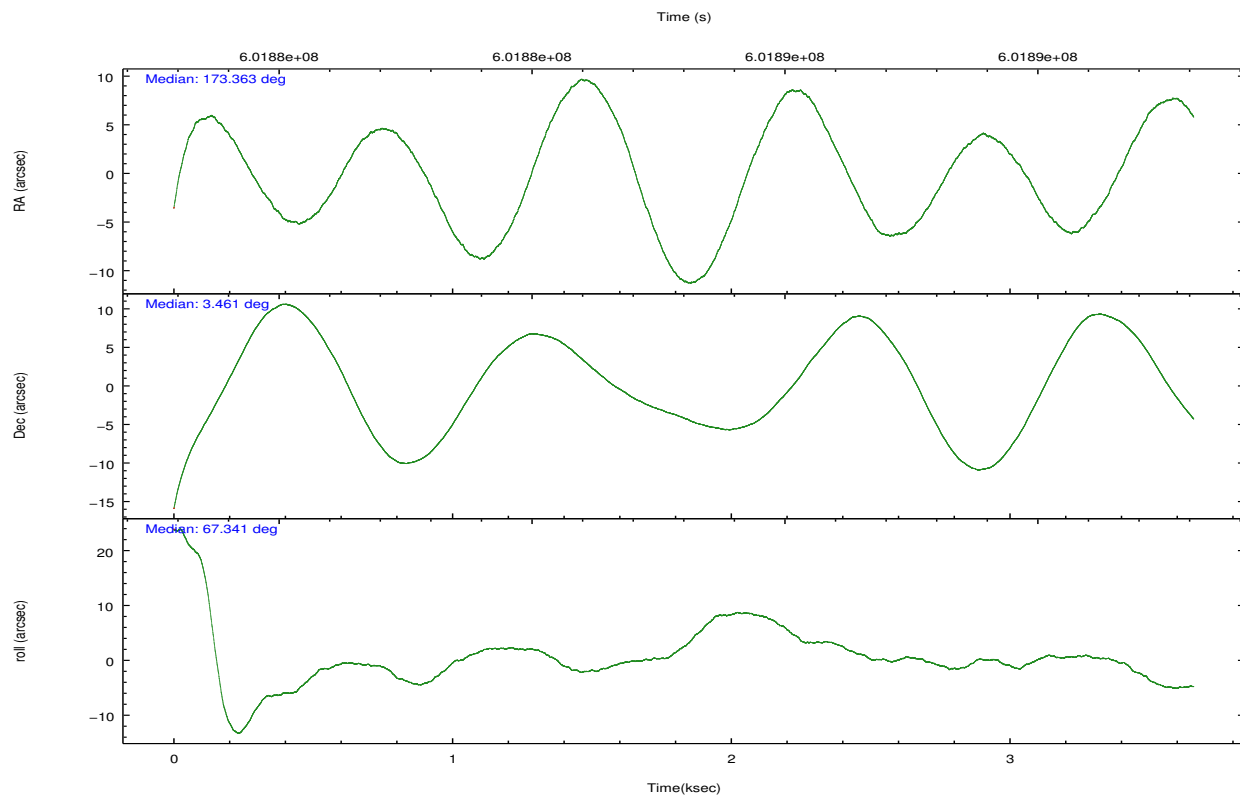
2.2 Compared Parameters

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	173.367194	173.3633911898565
[deg] Pointing Dec	3.434085	3.461366400008973
[deg] Pointing Roll	67.186127	67.34302628473763
[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)	601883924.184000	601882720.8071001
Observation start date	2017-01-27T05:57:35	2017-01-27T05:38:40
[s] Observation end time (MET)	601887424.184000	601887830.9449
Observation end date	2017-01-27T06:55:55	2017-01-27T07:03:50
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



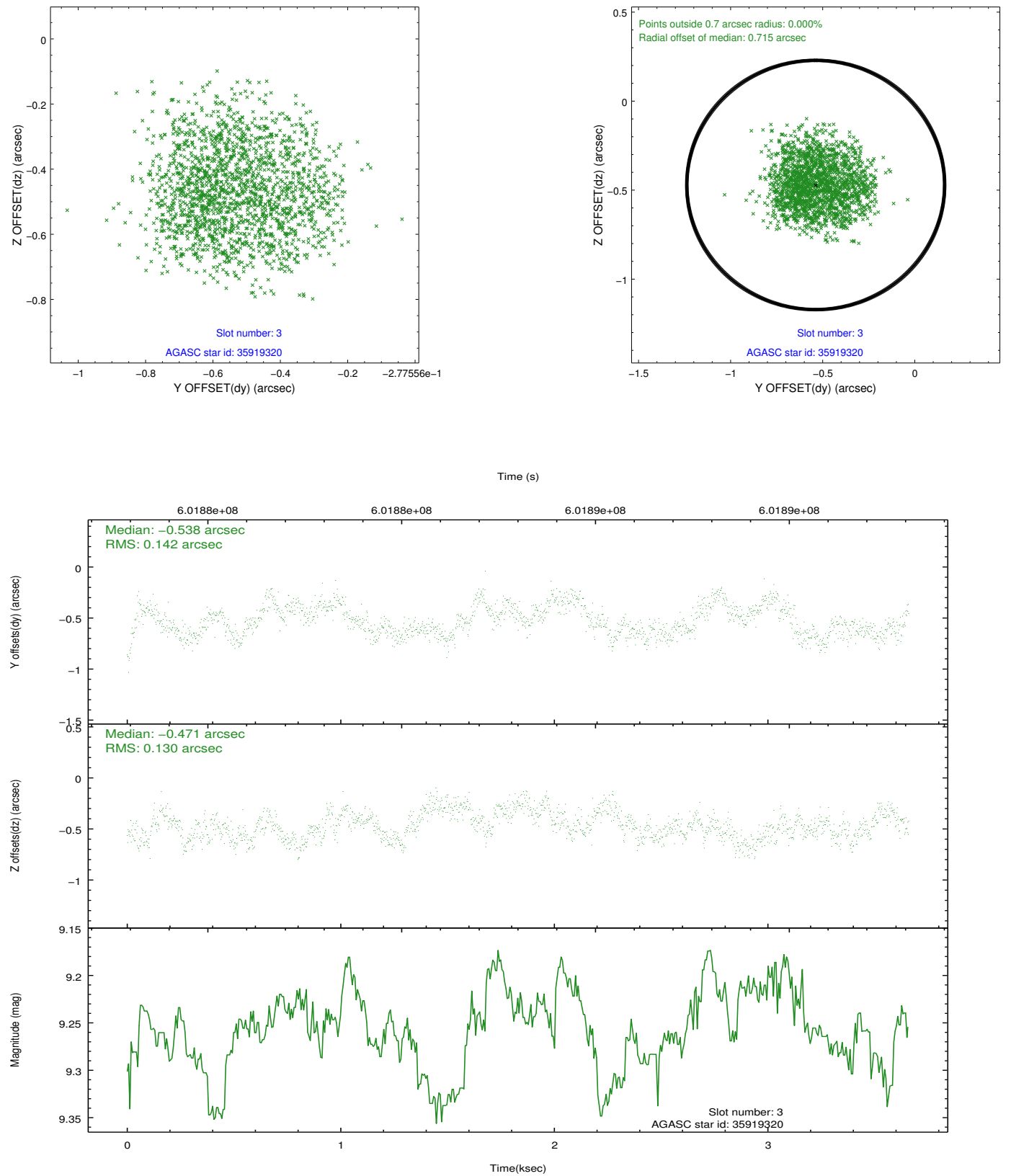


Slot Statistics

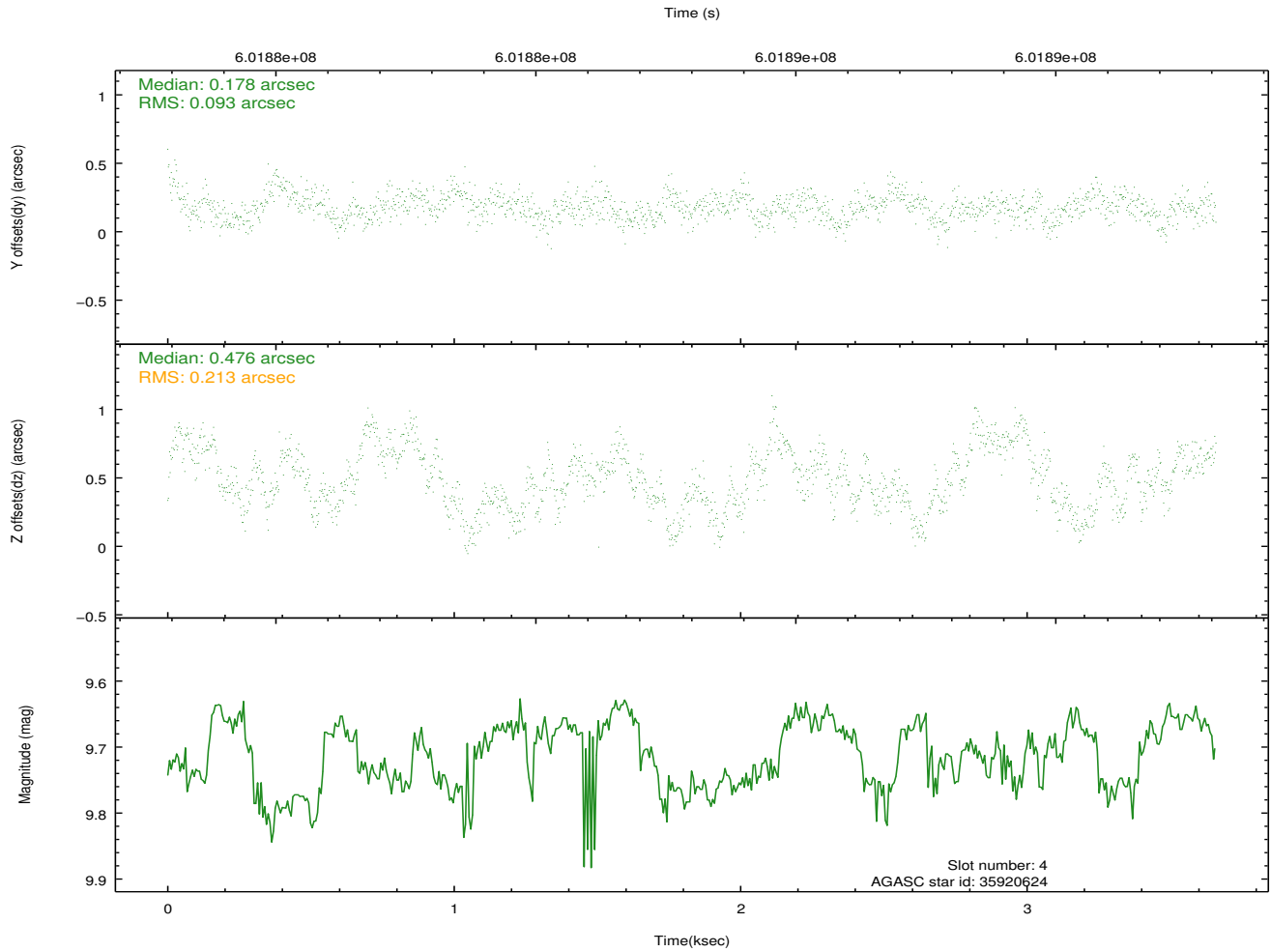
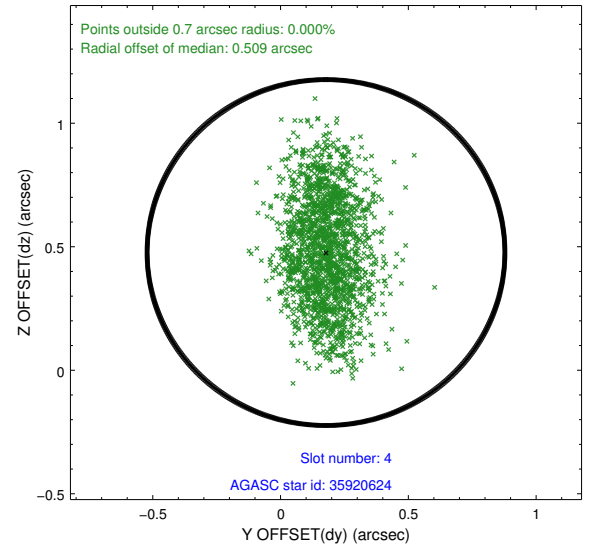
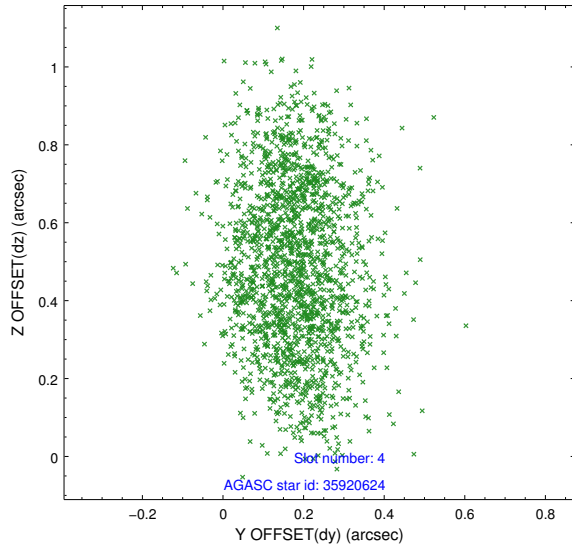
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	893	-0.235	-0.097	0.007	0.012	0.000000	0.000000	-774.60	-1742.13
1	FID		ACIS-S-4	7.11	893	0.474	0.139	0.005	0.010	0.000000	0.000000	2138.55	164.86
2	FID		ACIS-S-5	7.10	893	-0.270	-0.034	0.007	0.011	0.000000	0.000000	-1825.32	160.23
3	GUIDE	used	35919320	9.26	1781	-0.538	-0.471	0.213	0.313	173.353240	4.134167	2303.00	1023.65
4	GUIDE	used	35920624	9.71	1784	0.178	0.476	0.245	0.416	173.786138	2.849508	-1354.15	-2202.34
5	GUIDE	used	35920768	7.07	1786	-0.271	-0.449	0.157	0.242	173.332243	3.362491	-287.54	14.76
6	GUIDE	used	35922088	9.56	1783	0.064	0.385	0.207	0.332	174.092517	3.557631	1420.91	-2227.83
7	GUIDE	used	35917288	9.89	1779	0.592	0.055	0.383	0.593	173.451896	3.761008	1204.19	175.11

2.4 Star Slots

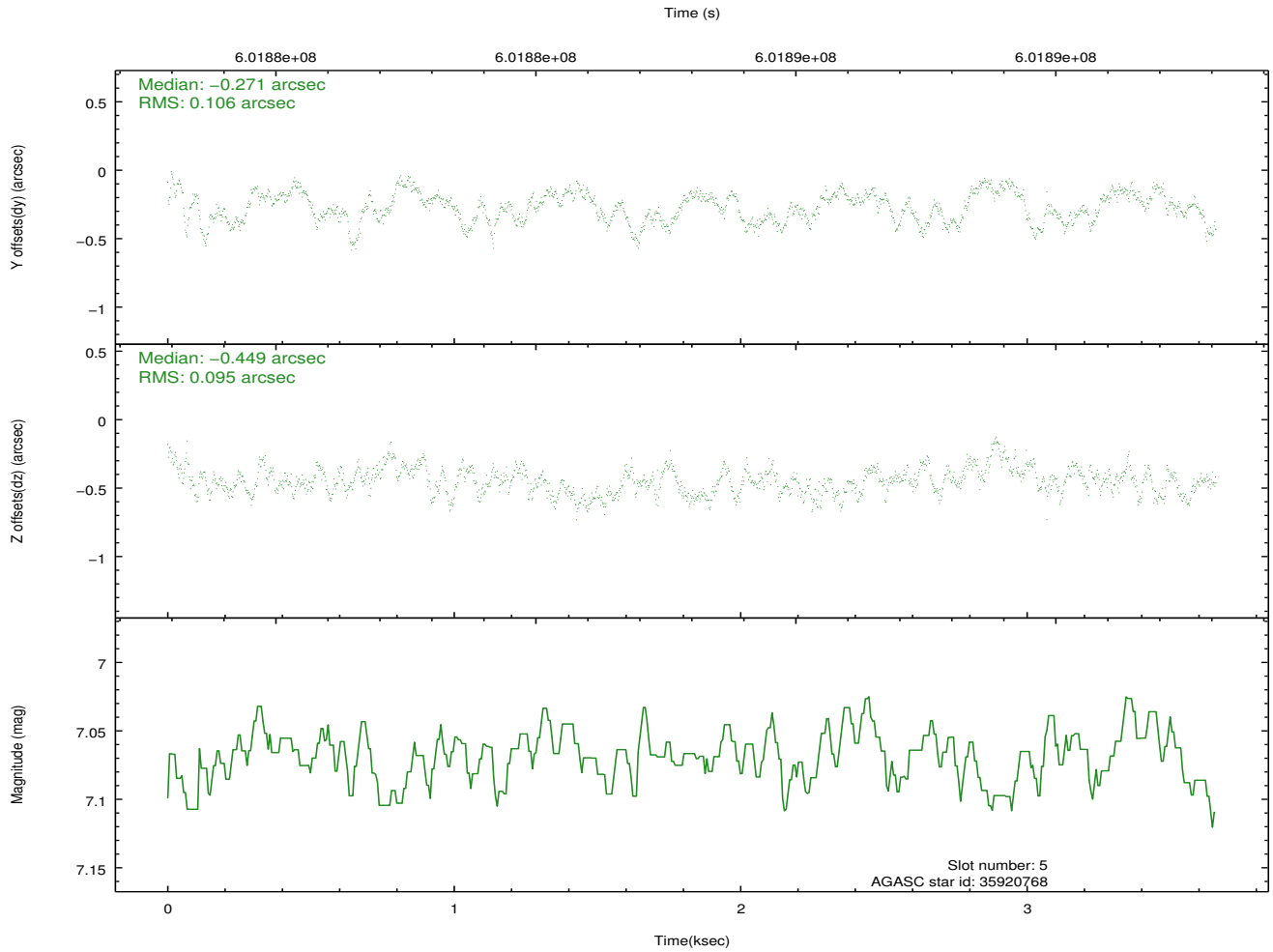
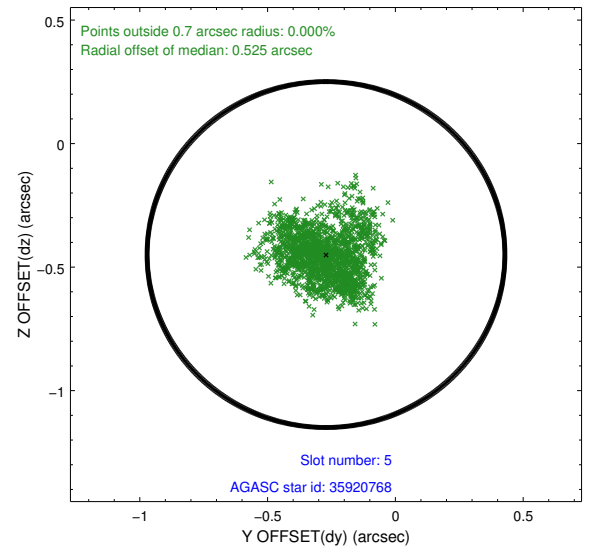
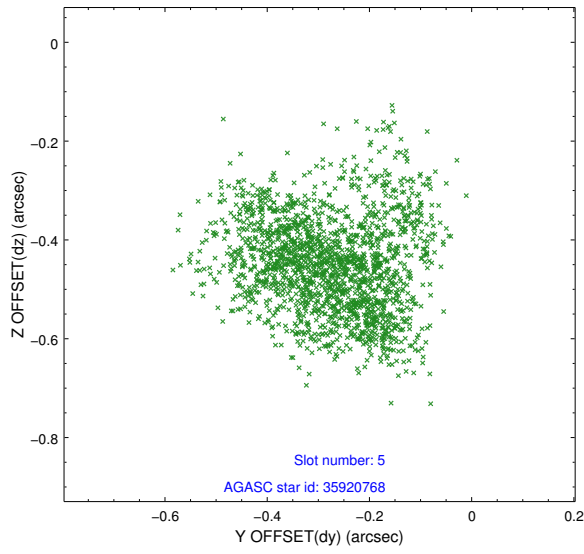
2.4.1 Slot 3



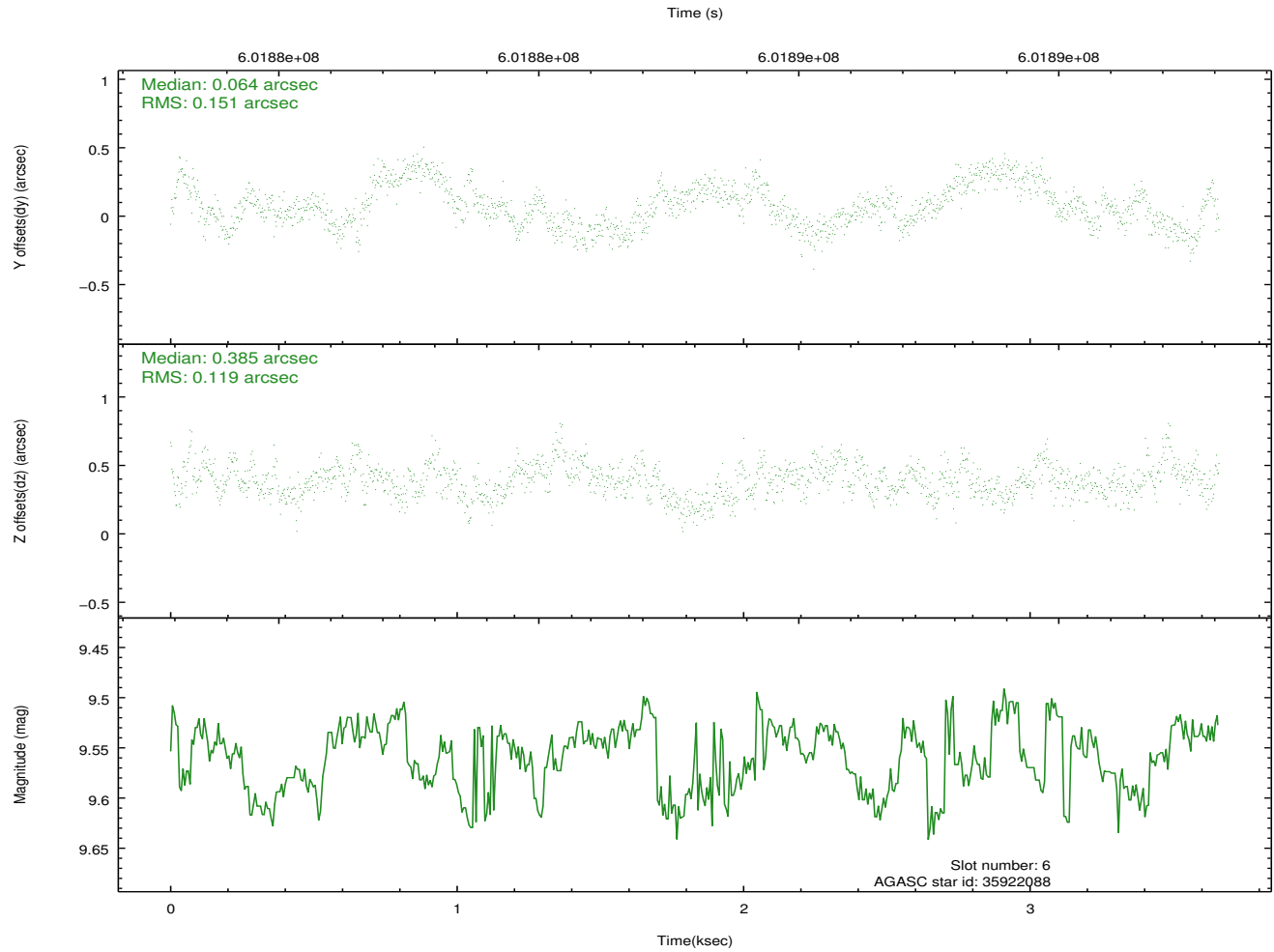
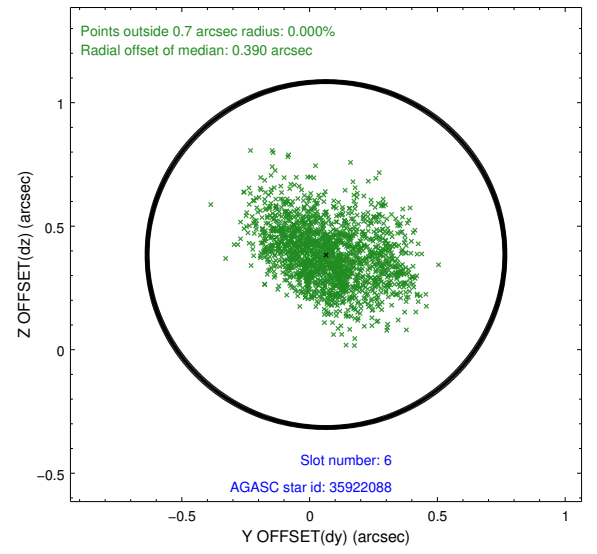
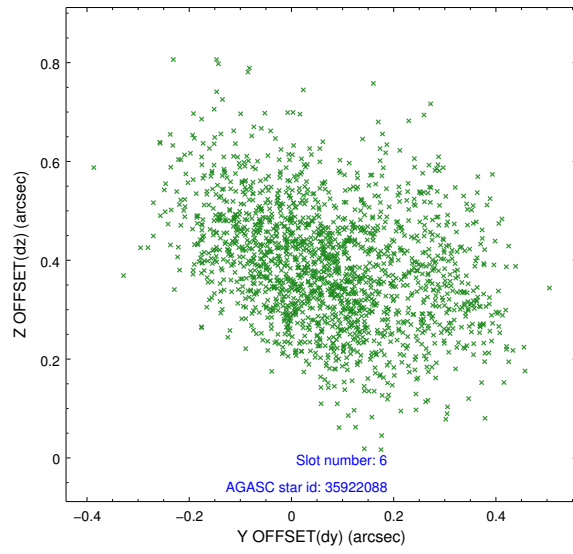
2.4.2 Slot 4



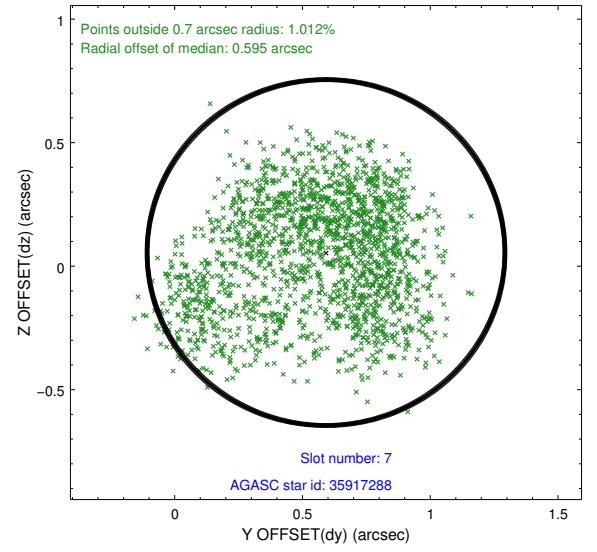
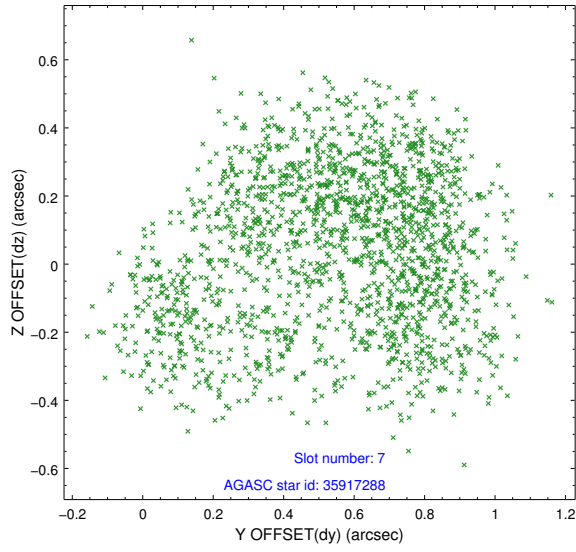
2.4.3 Slot 5



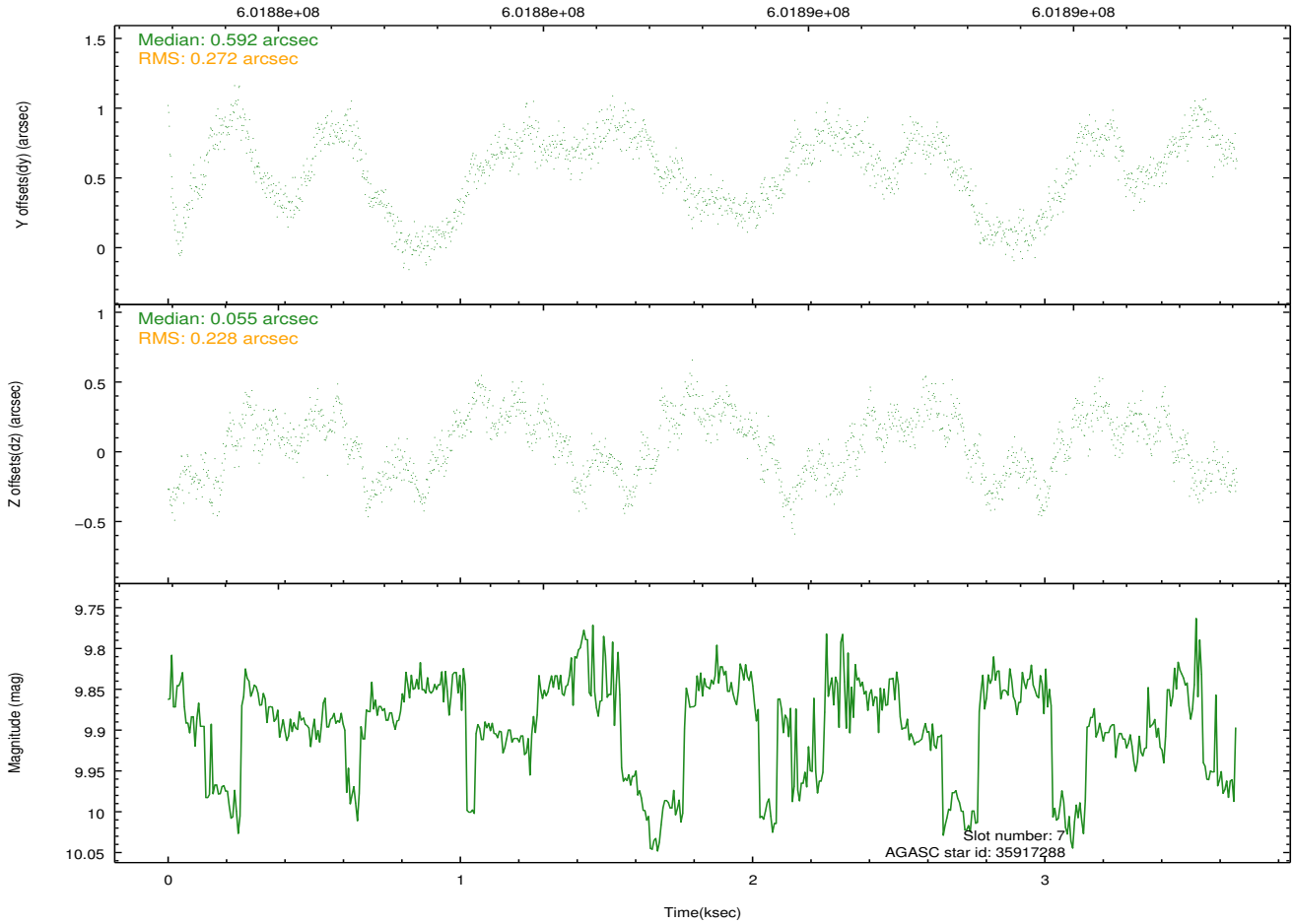
2.4.4 Slot 6



2.4.5 Slot 7

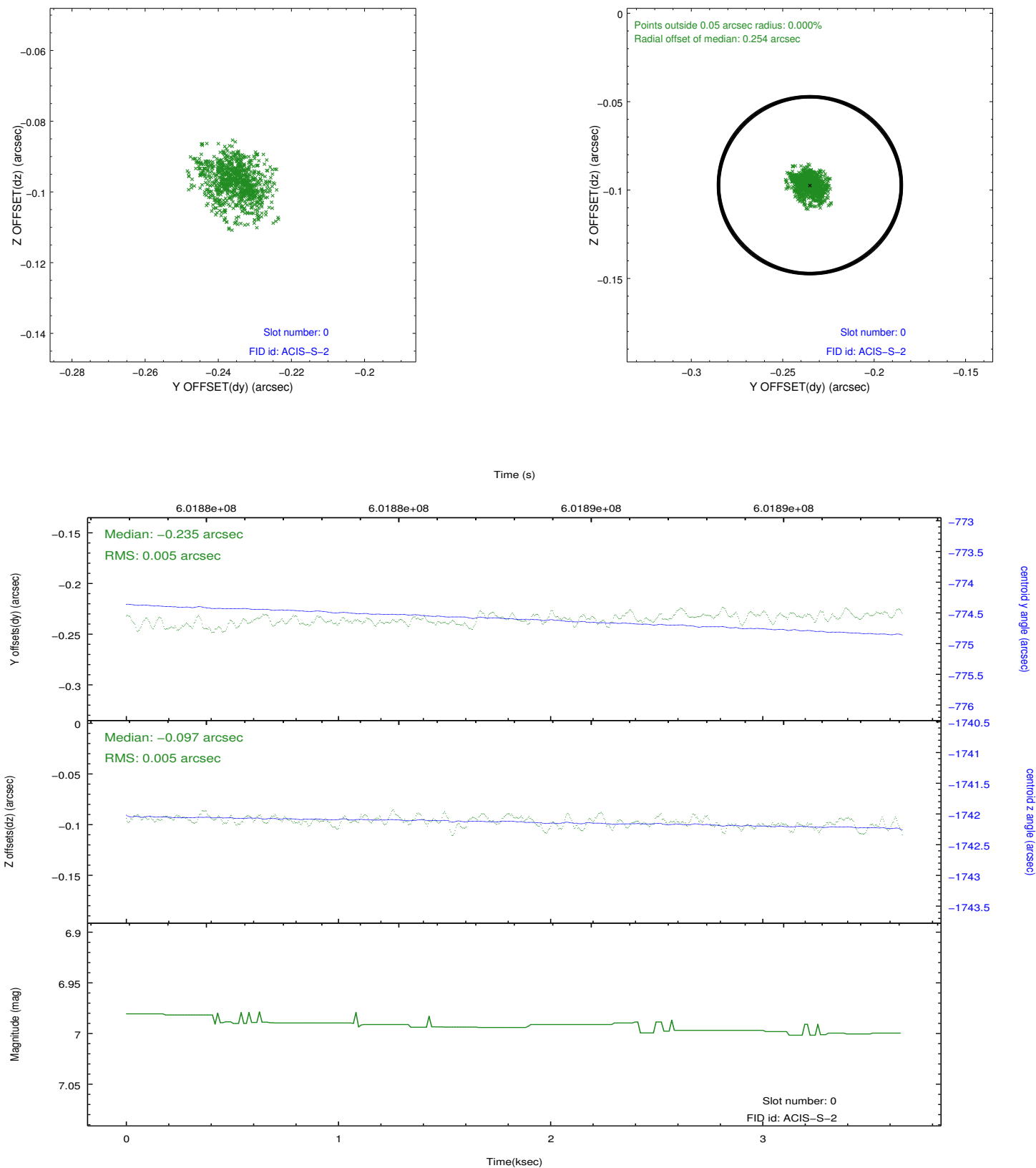


Time (s)

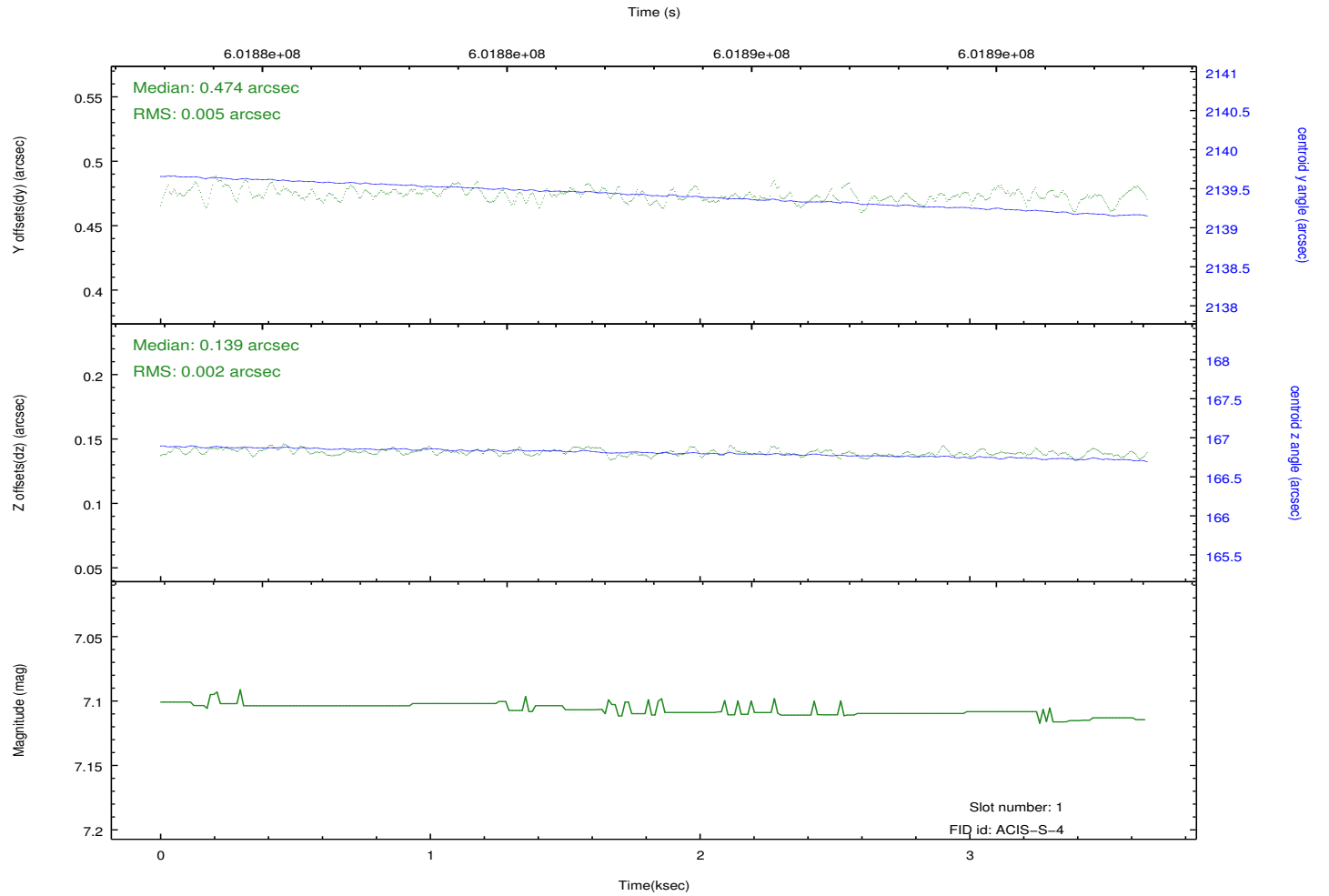
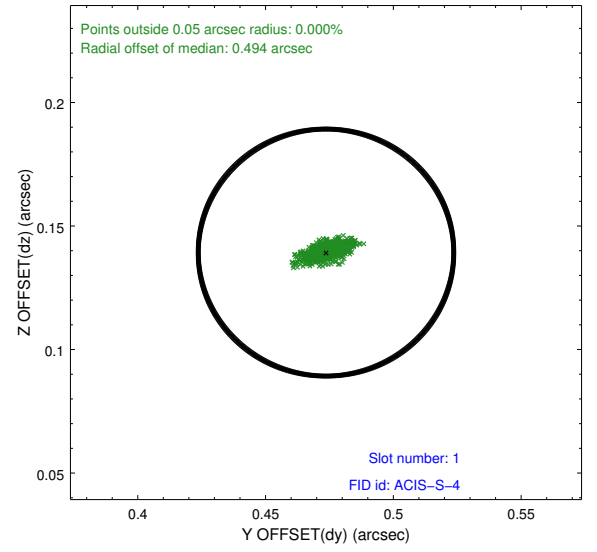
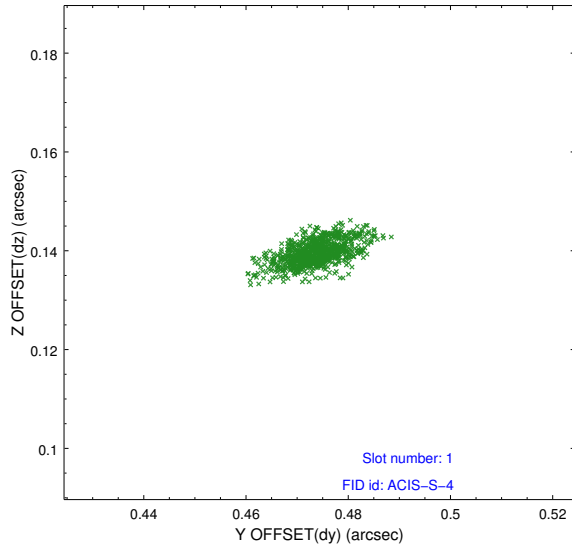


2.5 FID Slots

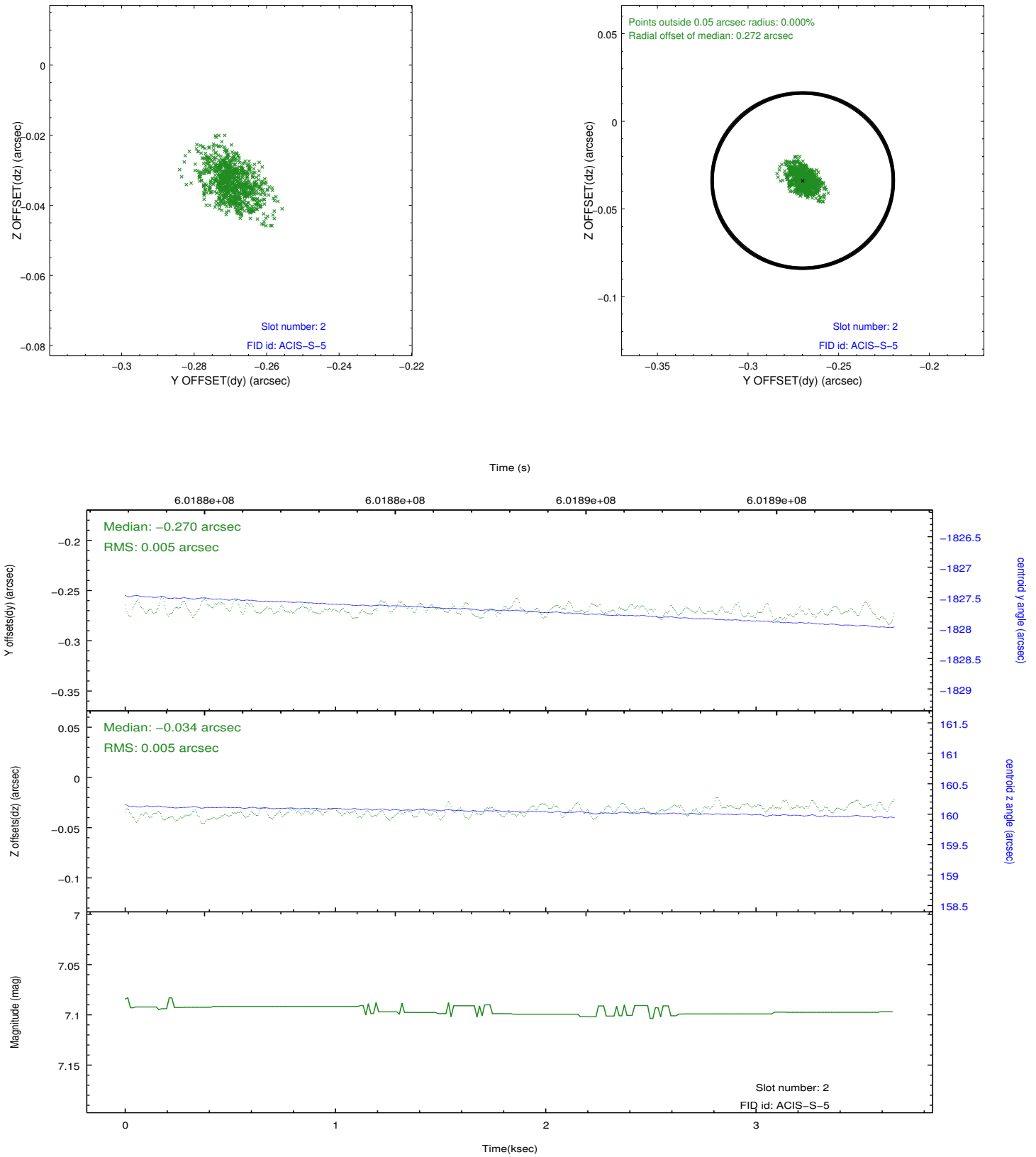
2.5.1 Slot 0



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	3.5697818350792

A.2 Comments