

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19540 - L2 Version 1
Chandra X-Ray Center

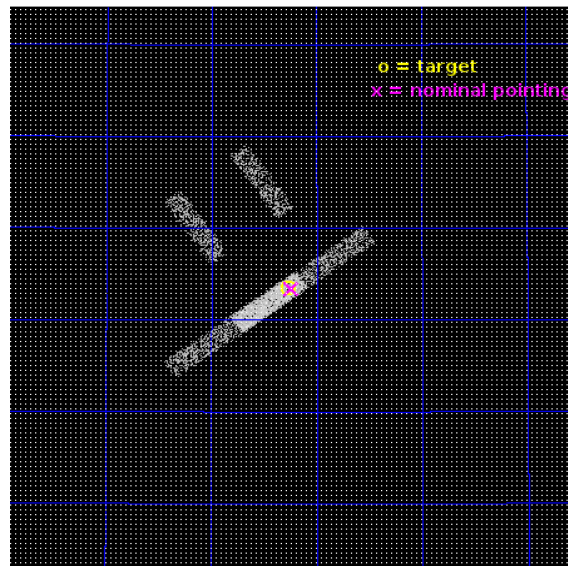
L2 Processing Date : Jan 15 2017

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1 Front

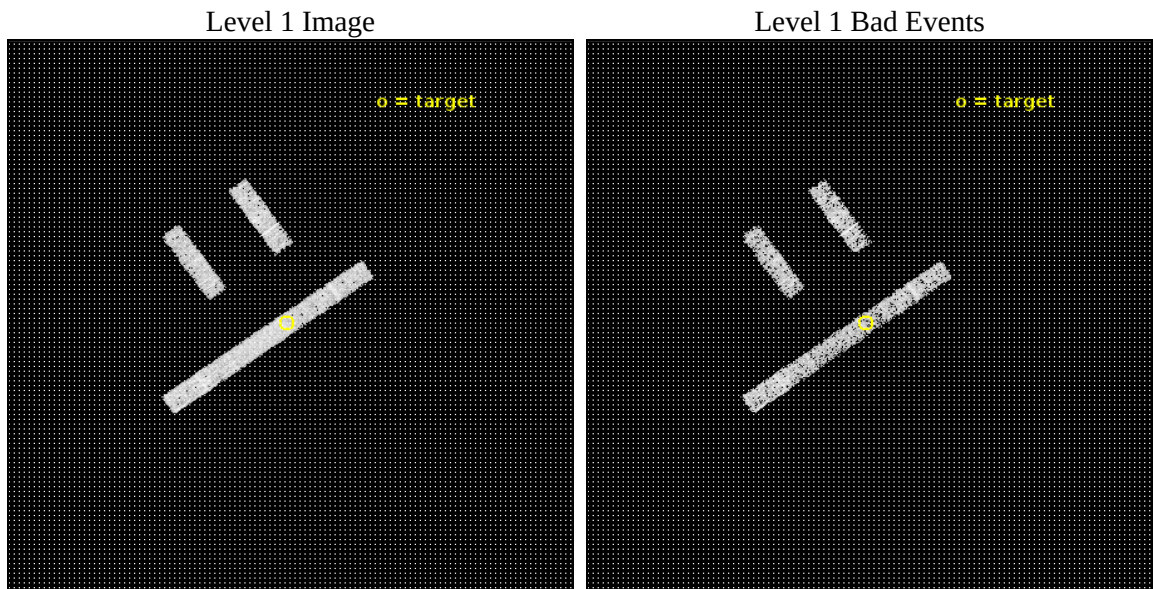
seq_num	703388	Sequence number
obs_id	19540	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ085116.14+424328.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.817083	Observer's specified target RA [deg]
dec_targ	42.724694	Observer's specified target Dec [deg]
ra_nom	132.80971418681	Nominal RA [deg]
dec_nom	42.723392707575	Nominal Dec [deg]
roll_nom	144.51440888992	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3070.0	Sum of GTIs [s]
livetime	2948.9741028203	Livetime [s]
ontime2	3070.0	Sum of GTIs [s]
ontime3	3070.0	Sum of GTIs [s]
ontime6	3070.0	Sum of GTIs [s]
ontime7	3070.0	Sum of GTIs [s]
ontime8	3070.0	Sum of GTIs [s]
l2events	5735	Number of level 2 events



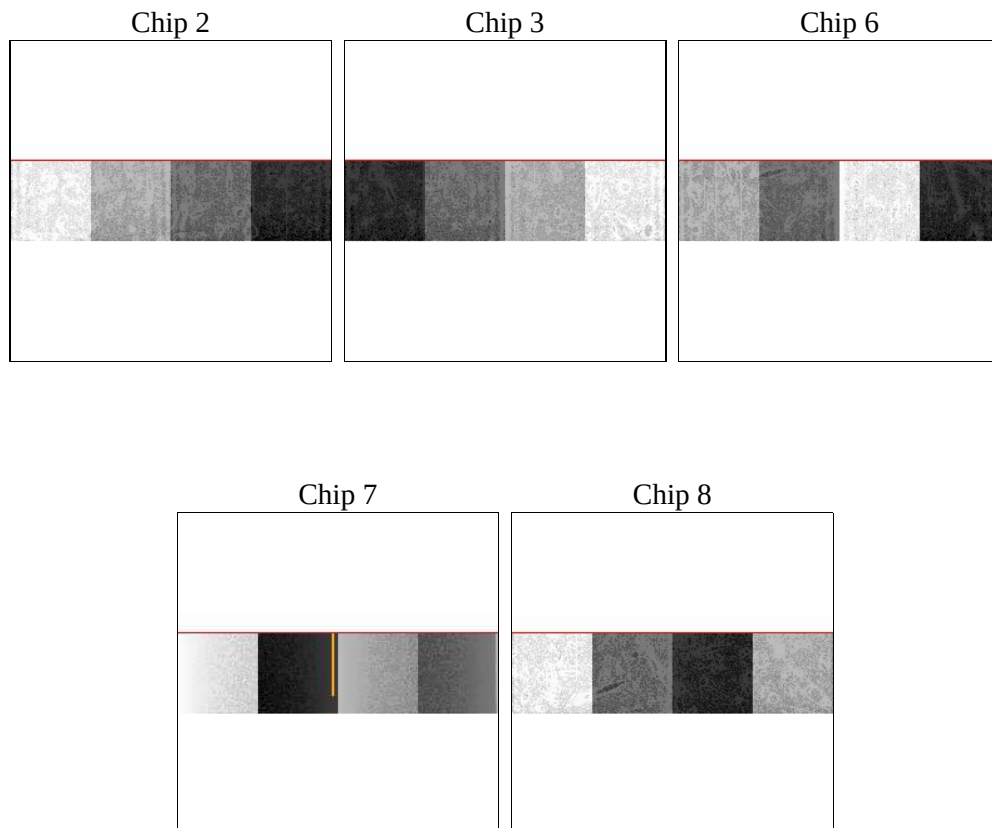
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.776000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3070.0	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	3070.0	Sum of GTIs [s]
date	2017-01-15T22:18:44	Date and time of file creation	ontime3	3070.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3070.0	Sum of GTIs [s]
			ontime7	3070.0	Sum of GTIs [s]
			ontime8	3070.0	Sum of GTIs [s]
			l1events	36148	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6994	5988	6818	7786	8562
rejected events	6285	5299	5991	4414	6653
rejected %	89%	88%	87%	56%	77%

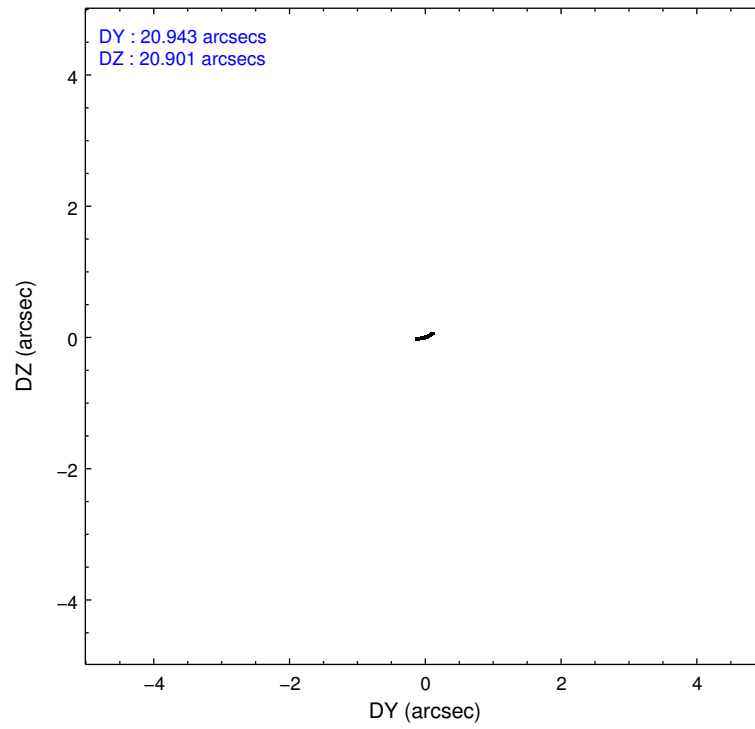
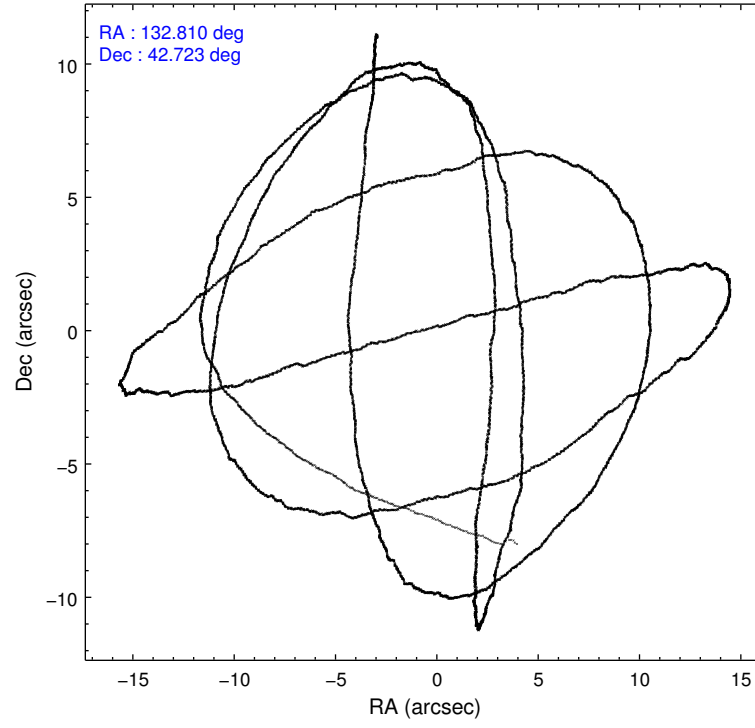
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	206	218	278	310	447
	2%	3%	4%	3%	5%
grade 1 events	1	0	3	15	6
	0%	0%	0%	0%	0%
grade 2 events	142	145	176	727	510
	2%	2%	2%	9%	5%
grade 3 events	120	107	97	313	173
	1%	1%	1%	4%	2%
grade 4 events	114	83	117	314	171
	1%	1%	1%	4%	1%
grade 5 events	215	283	297	729	393
	3%	4%	4%	9%	4%
grade 6 events	127	136	160	1712	609
	1%	2%	2%	21%	7%
grade 7 events	6069	5016	5690	3666	6253
	86%	83%	83%	47%	73%

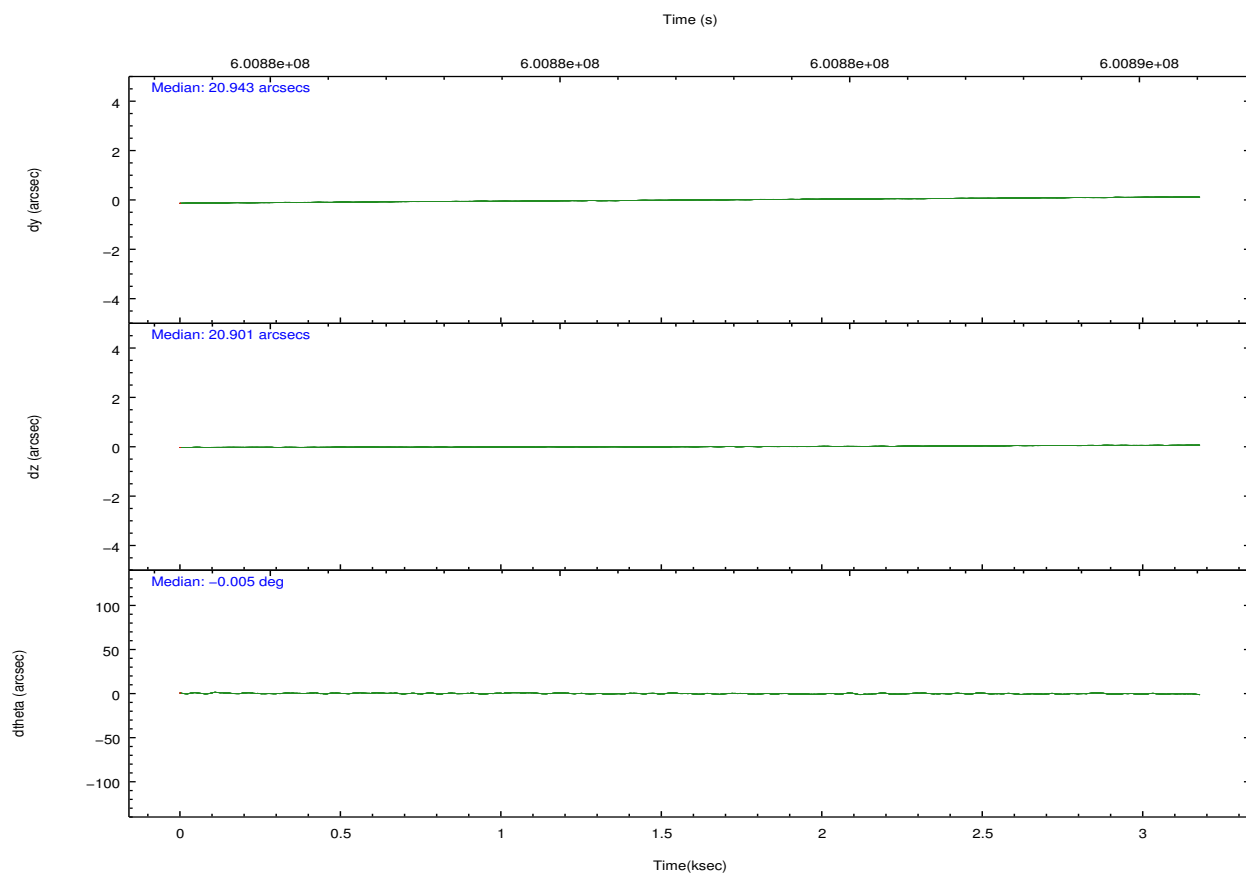
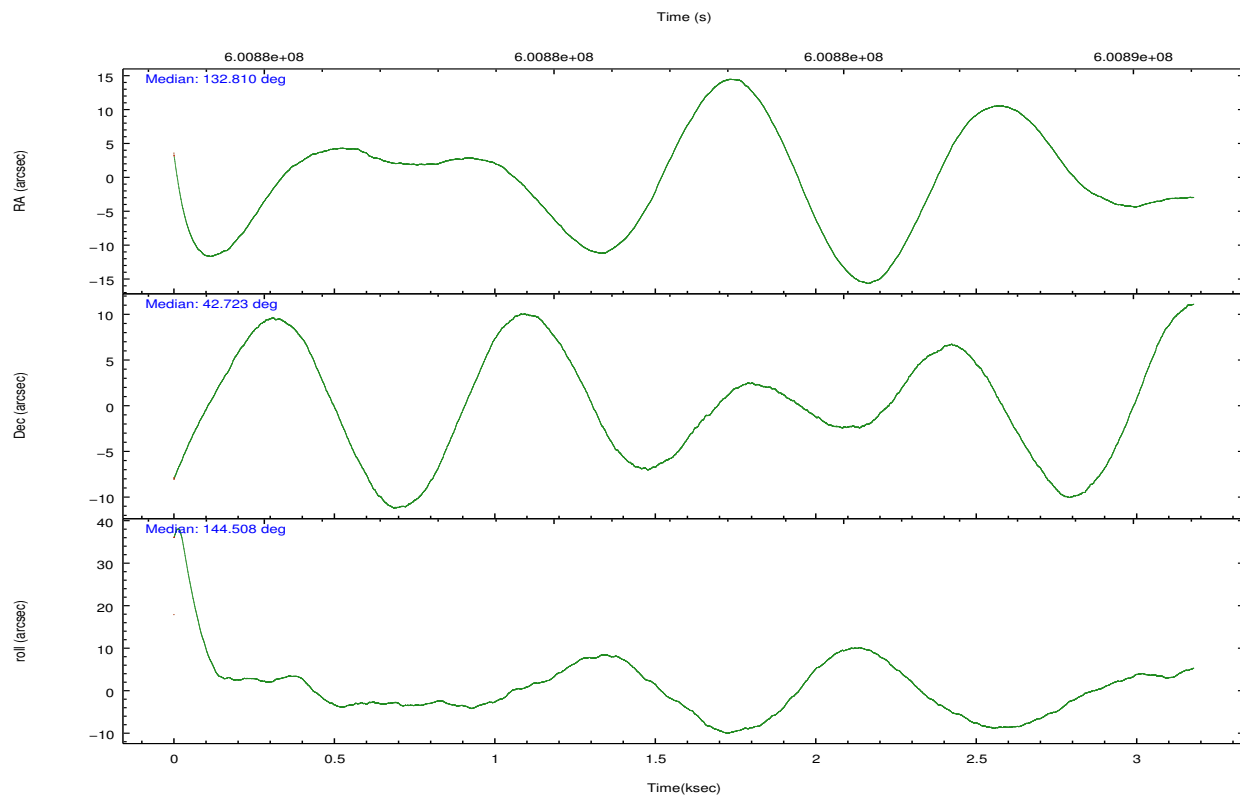
2.2 Compared Parameters

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	132.847027	132.8097141868149
[deg] Pointing Dec	42.721122	42.72339270757475
[deg] Pointing Roll	144.332296	144.5144088899193
[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)	600883028.184000	600882265.39916
Observation start date	2017-01-15T15:55:59	2017-01-15T15:44:25
[s] Observation end time (MET)	600886029.184000	600886252.1368999
Observation end date	2017-01-15T16:46:00	2017-01-15T16:50:52
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



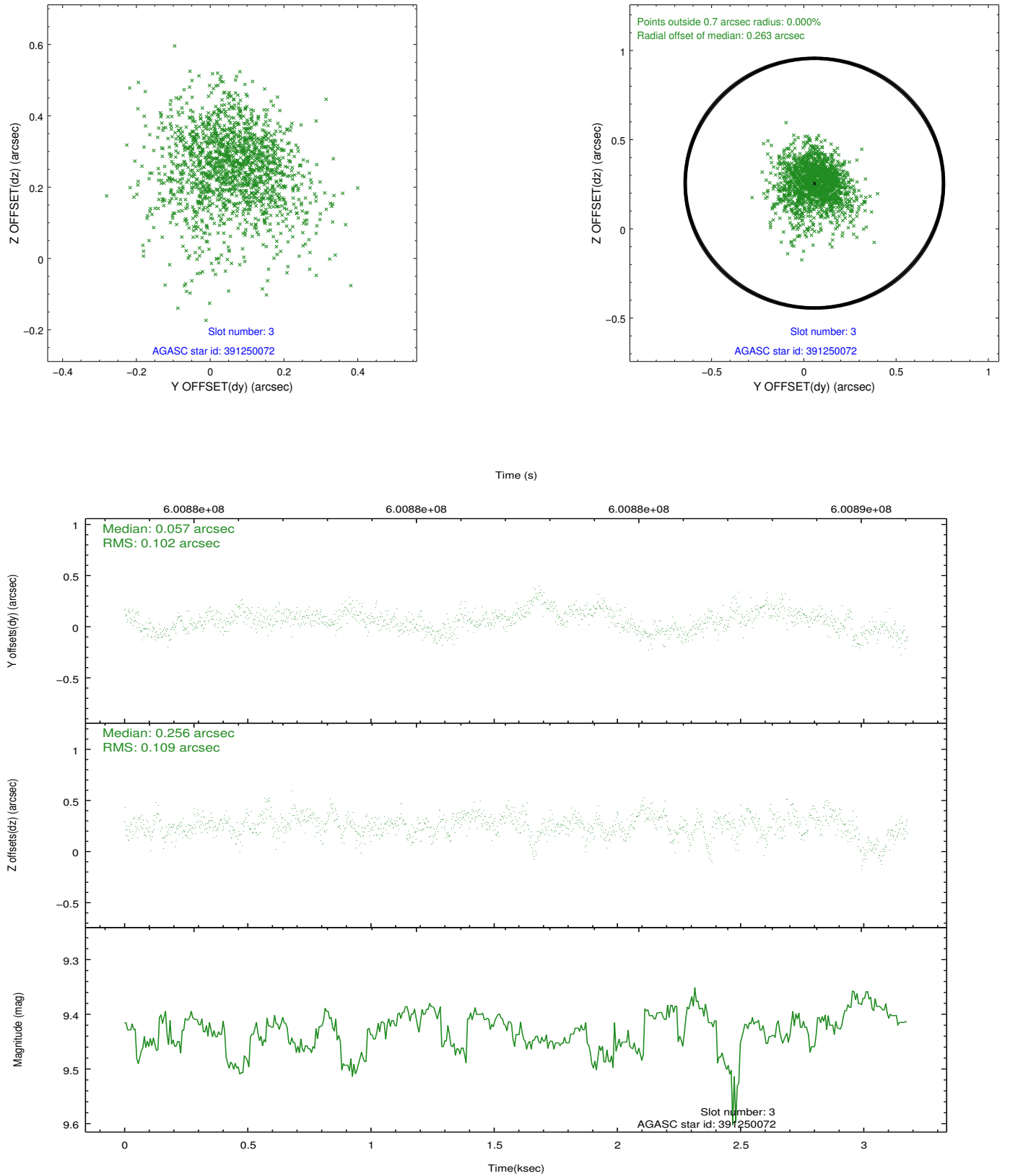


Slot Statistics

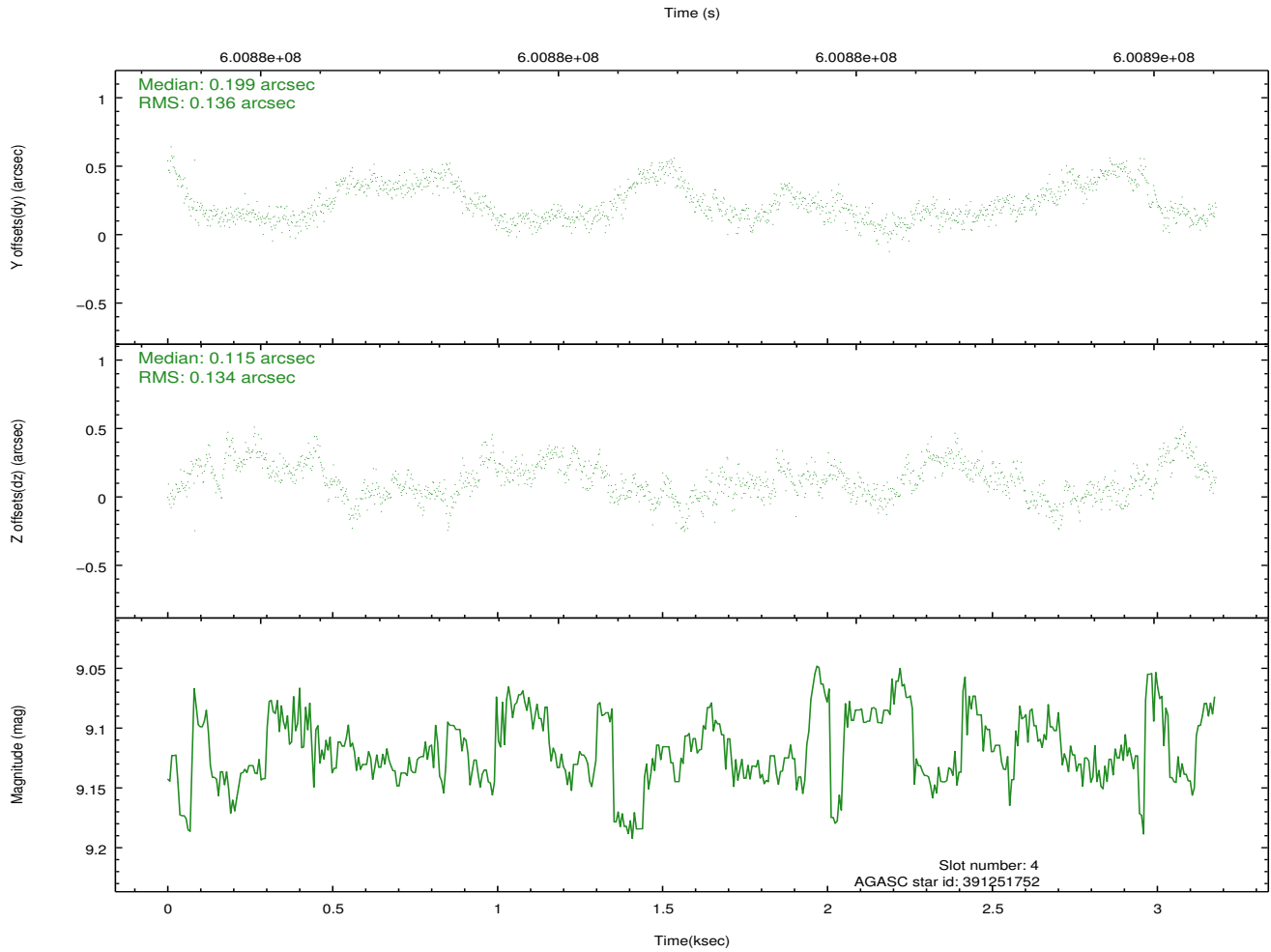
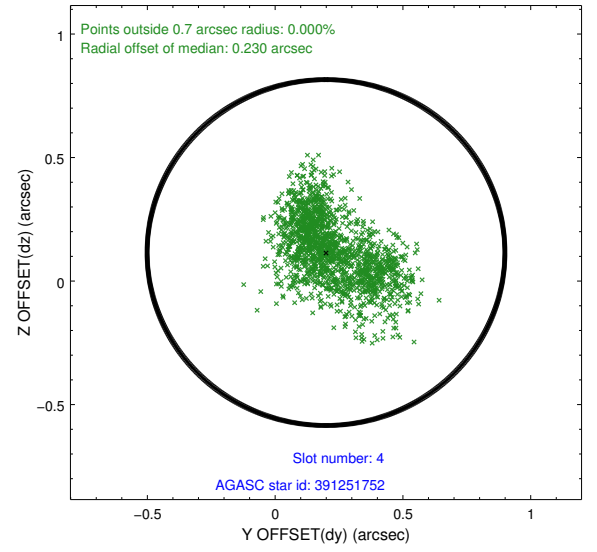
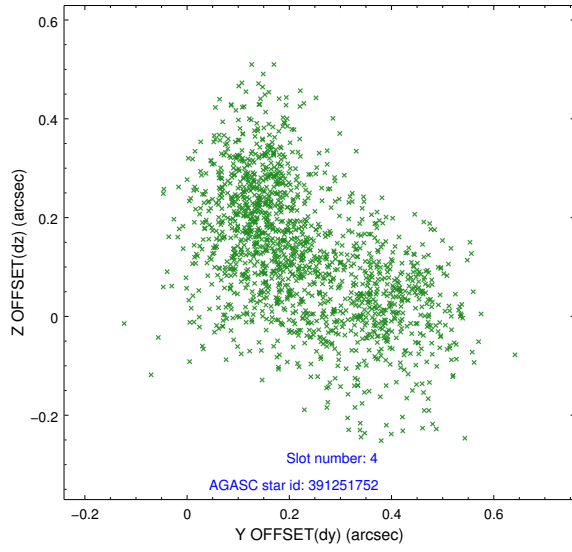
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.16	776	-0.249	-0.149	0.007	0.012	0.000000	0.000000	-774.30	-1742.55
1	FID		ACIS-S-4	7.27	776	0.534	0.160	0.006	0.012	0.000000	0.000000	2138.81	164.18
2	FID		ACIS-S-5	7.27	776	-0.316	-0.002	0.006	0.010	0.000000	0.000000	-1824.67	159.93
3	GUIDE	used	391250072	9.43	1547	0.057	0.256	0.155	0.268	133.154124	42.298153	-1551.23	759.62
4	GUIDE	used	391251752	9.12	1551	0.199	0.115	0.208	0.331	132.984449	42.427343	-914.55	646.99
5	GUIDE	used	391257968	9.83	1546	-0.055	0.034	0.186	0.324	132.948774	41.891641	-1963.48	2267.33
6	GUIDE	used	391648192	7.99	1551	0.155	0.192	0.125	0.209	132.683729	43.502065	1985.26	-2033.39
7	GUIDE	used	391253720	9.26	1548	-0.383	-0.585	0.263	0.399	131.814338	42.450989	1671.75	2374.49

2.4 Star Slots

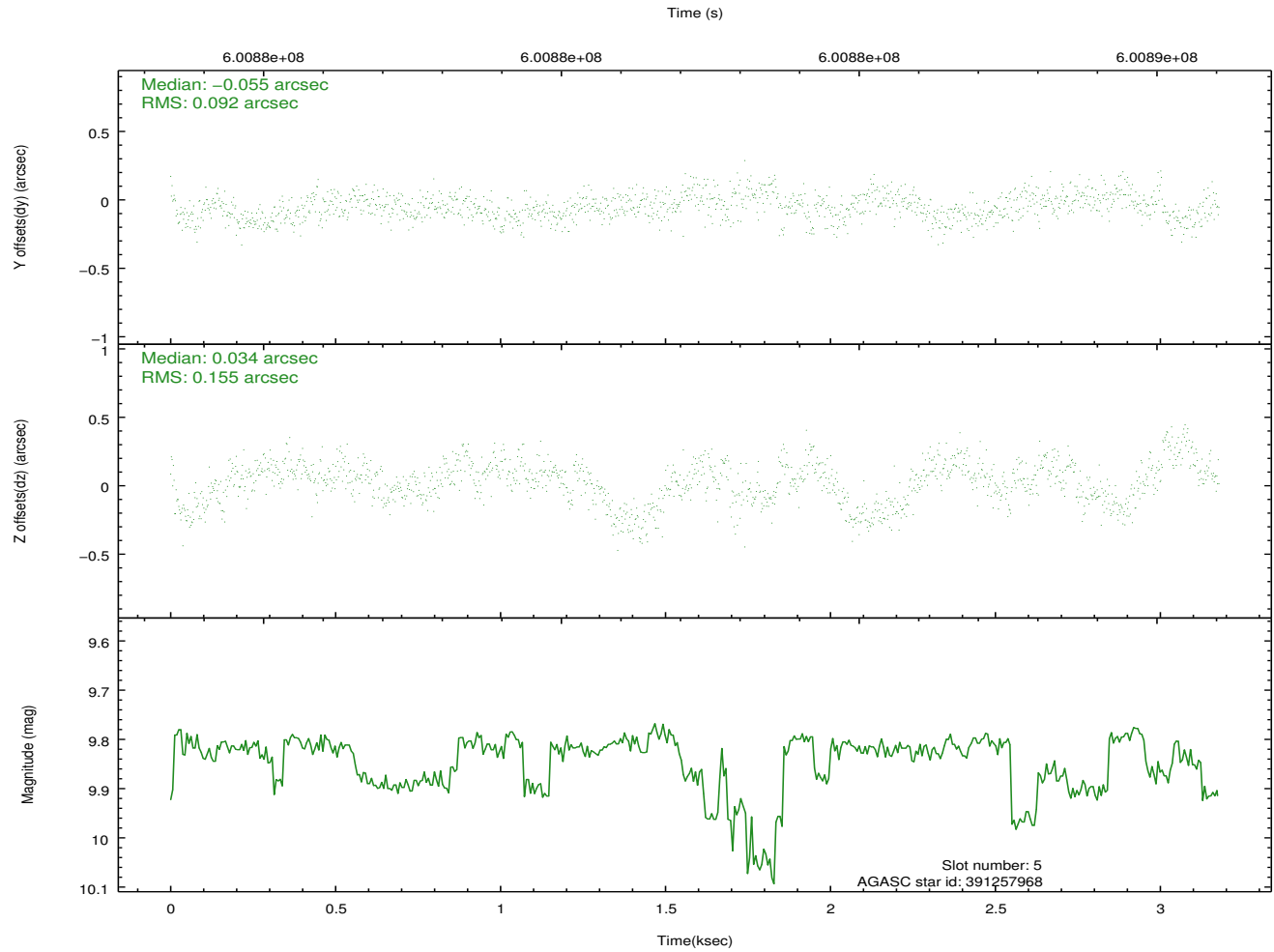
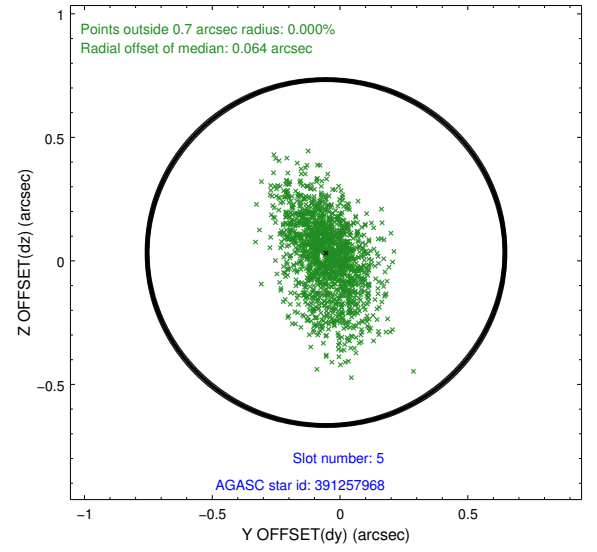
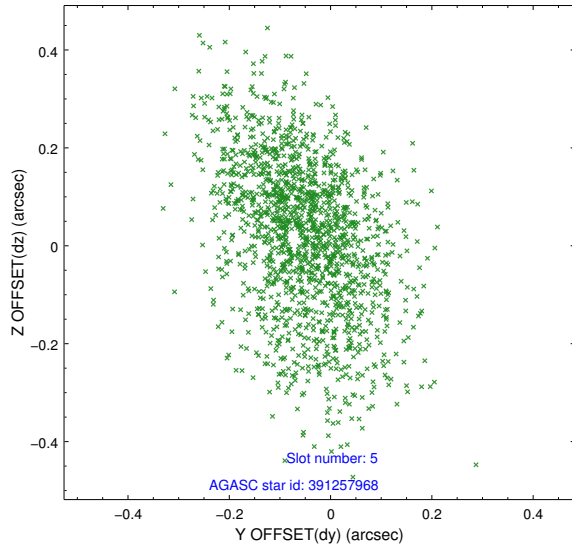
2.4.1 Slot 3



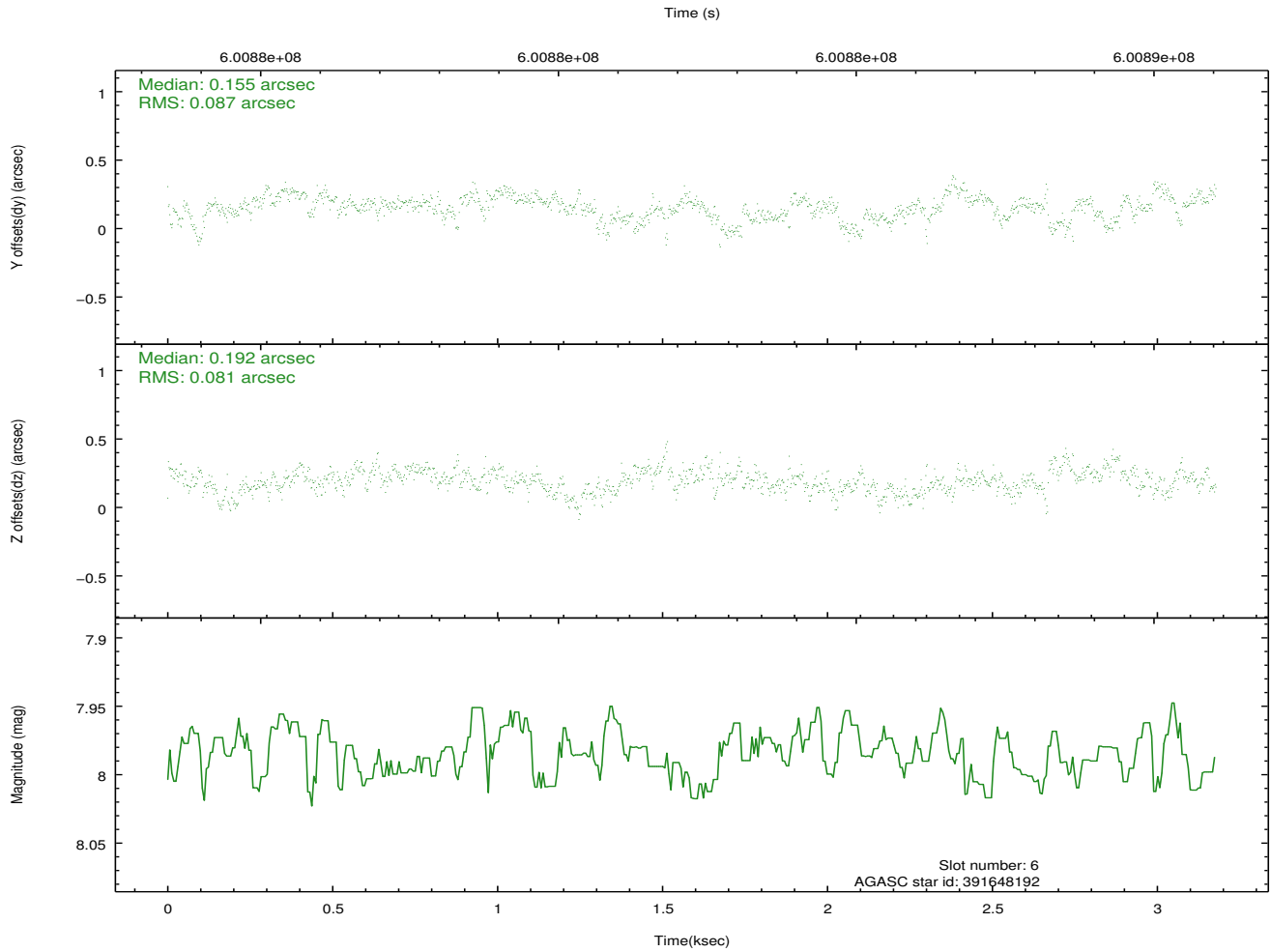
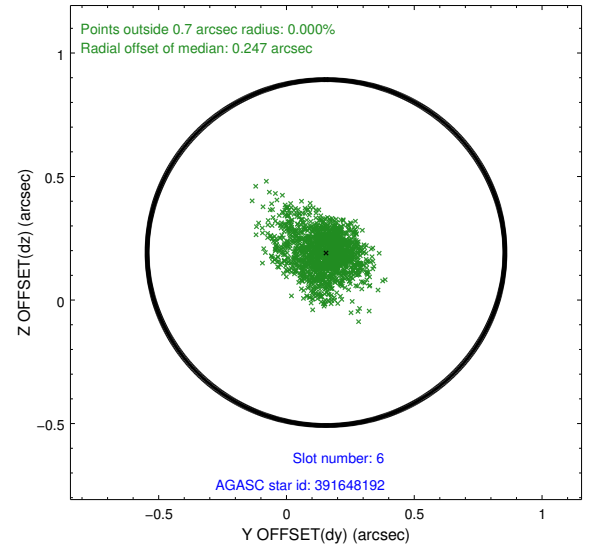
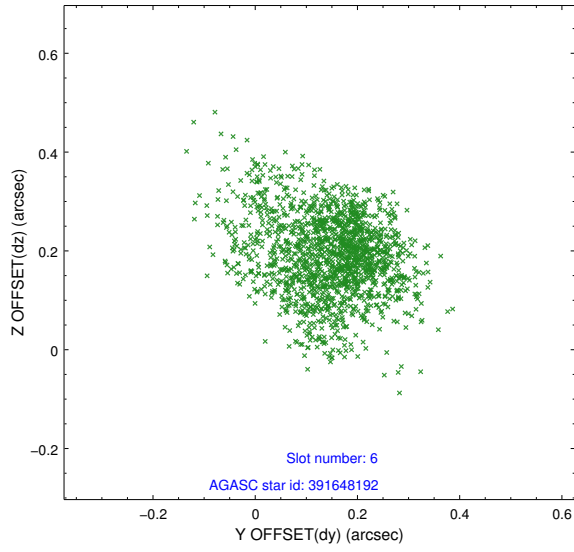
2.4.2 Slot 4



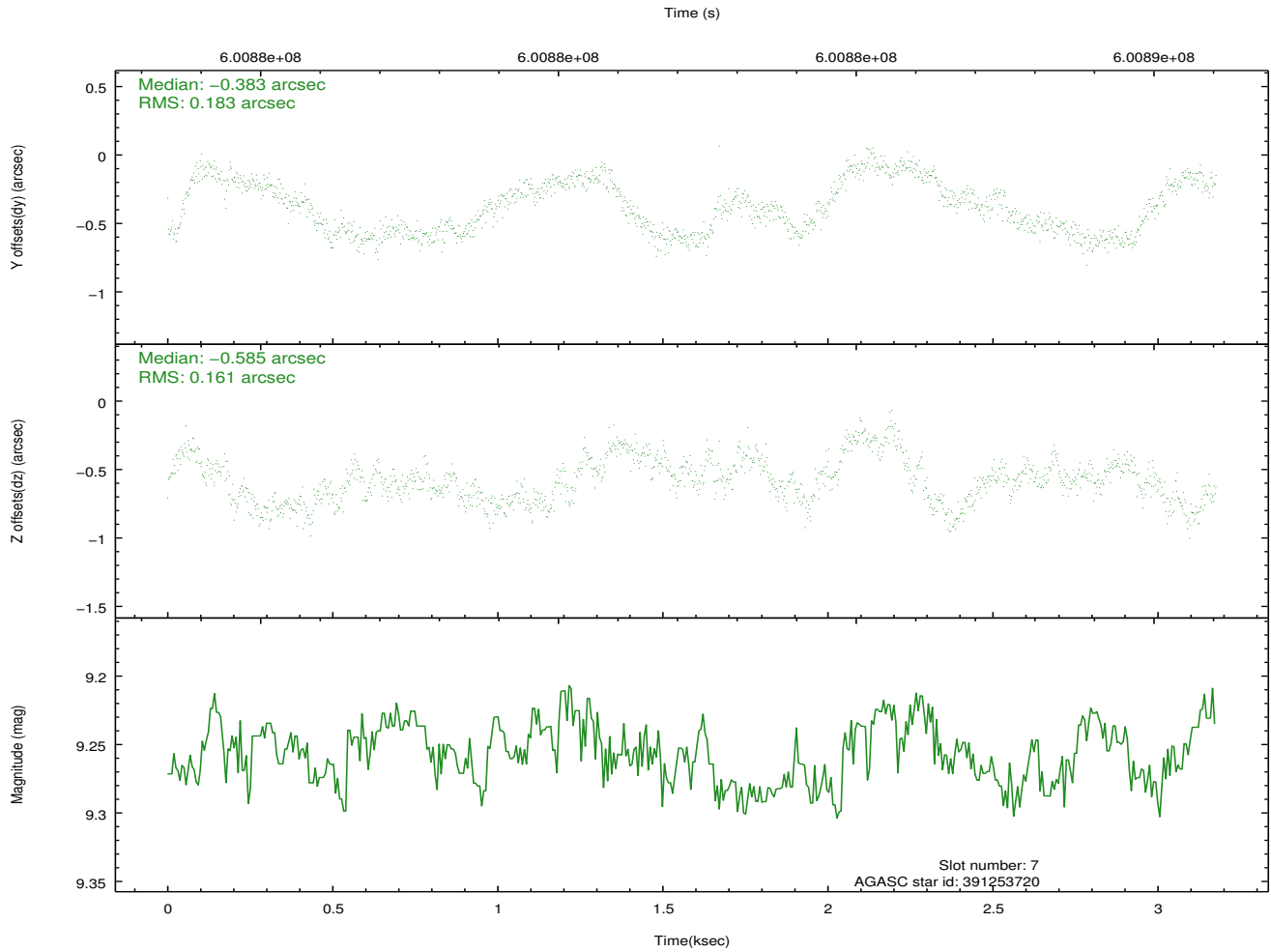
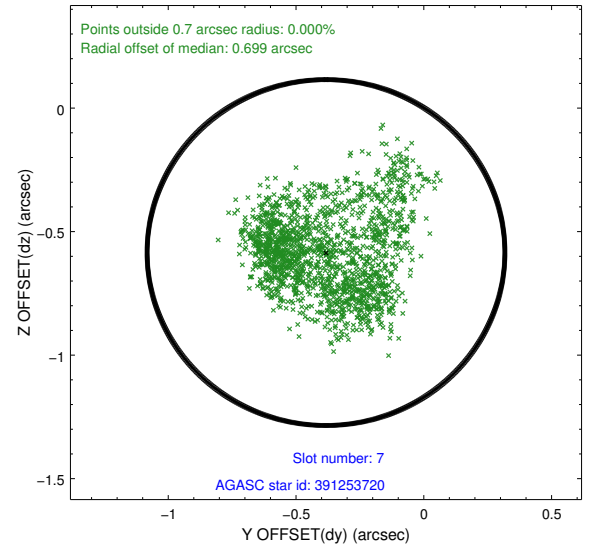
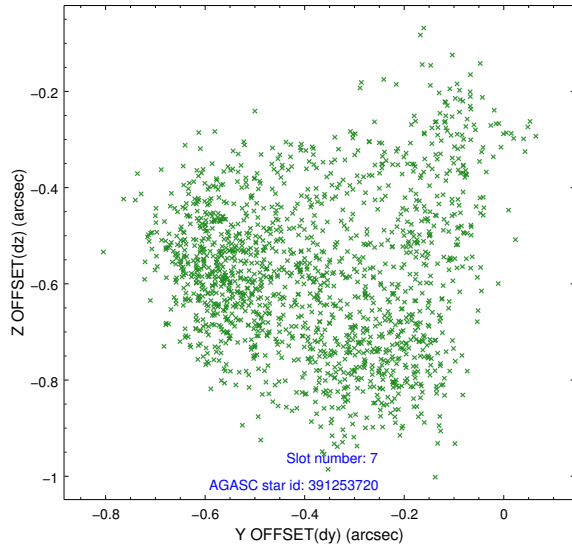
2.4.3 Slot 5



2.4.4 Slot 6

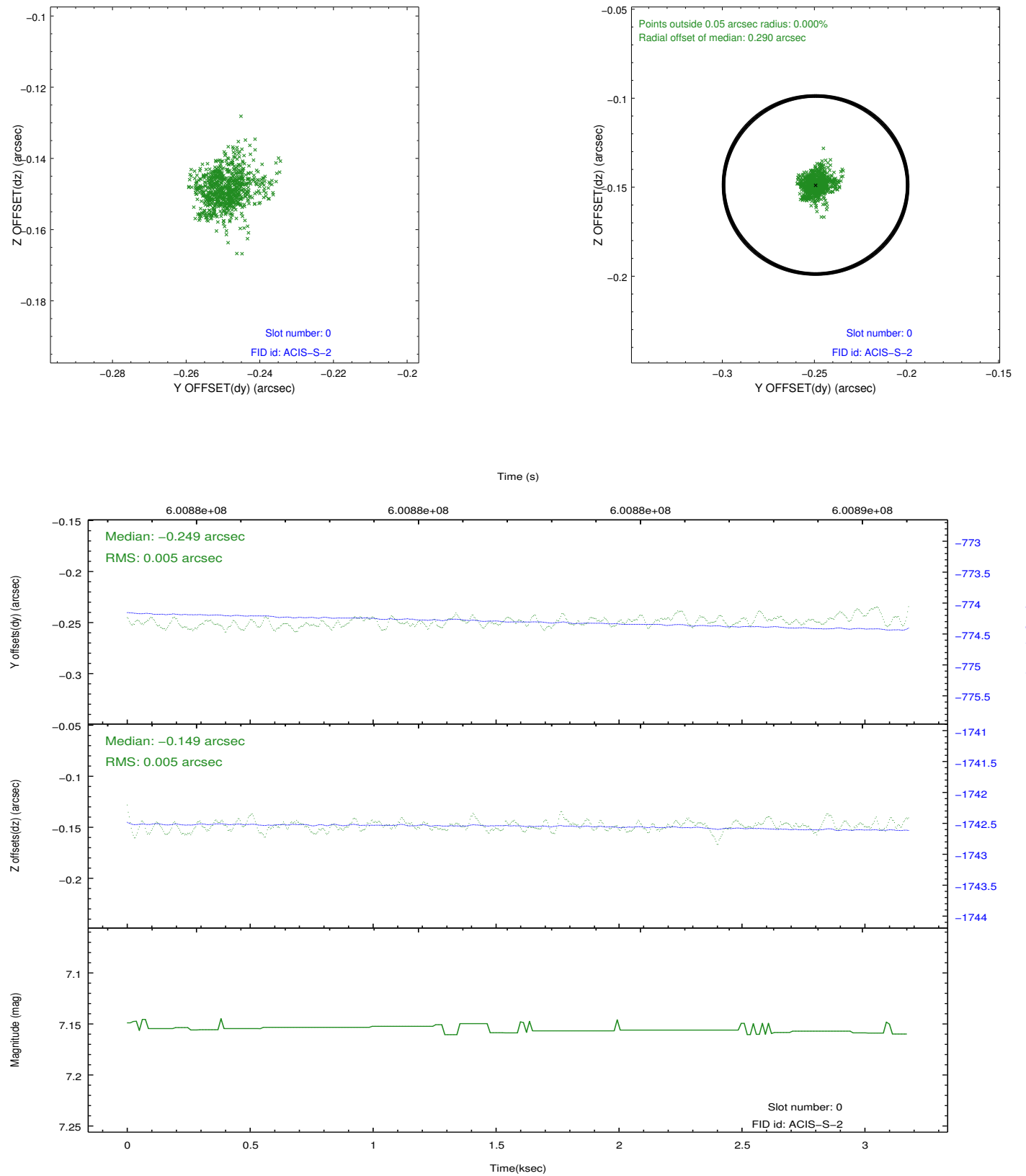


2.4.5 Slot 7

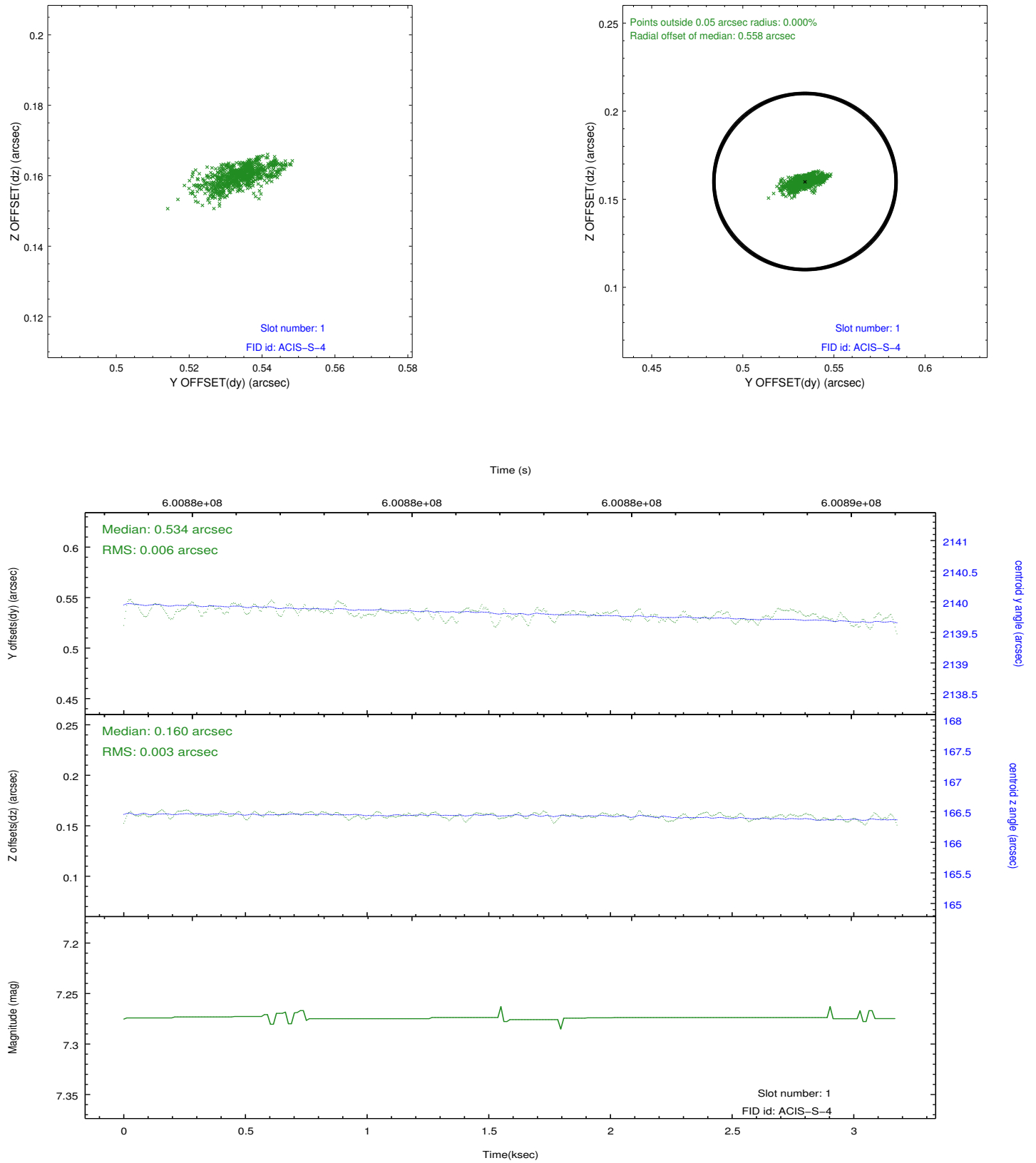


2.5 FID Slots

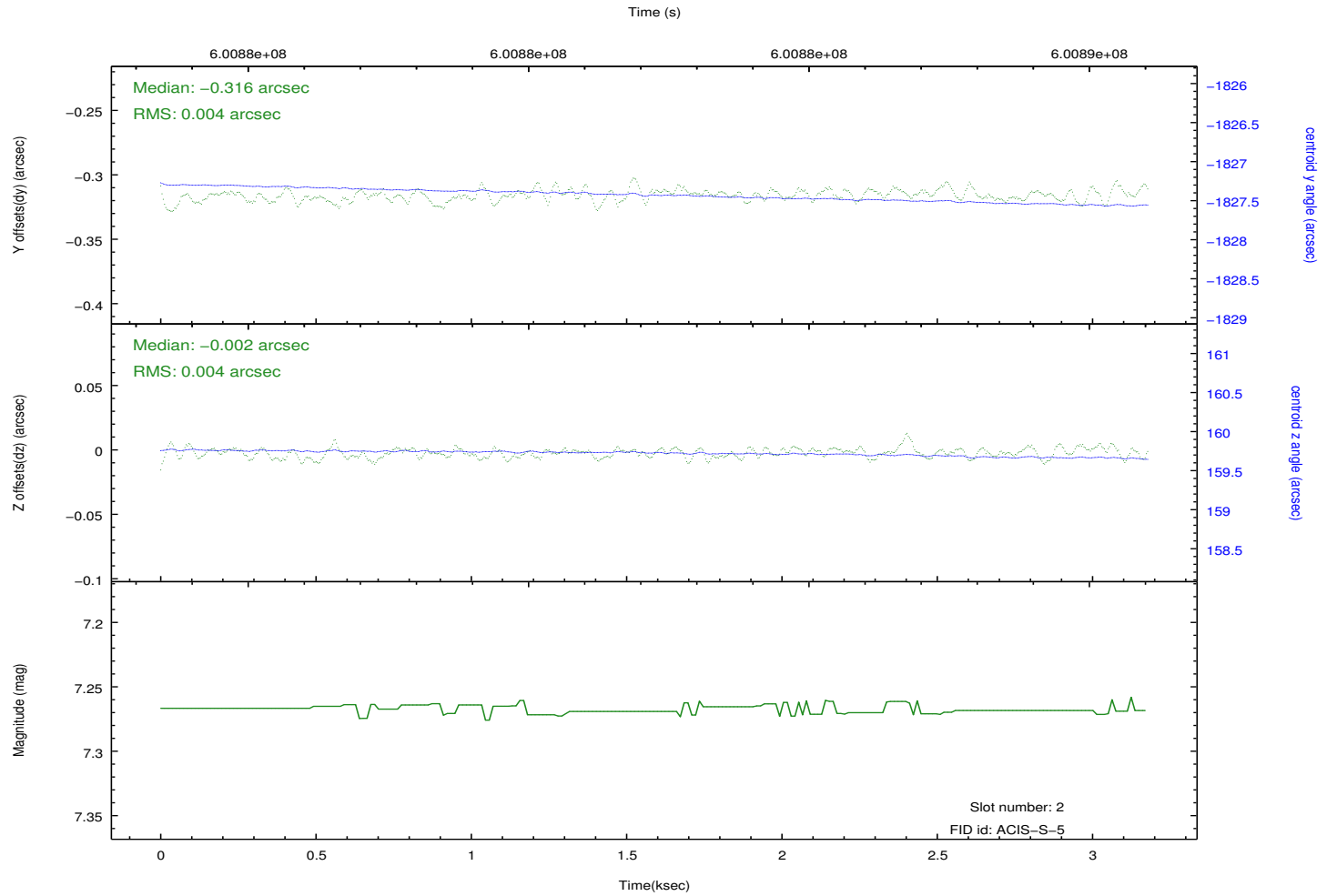
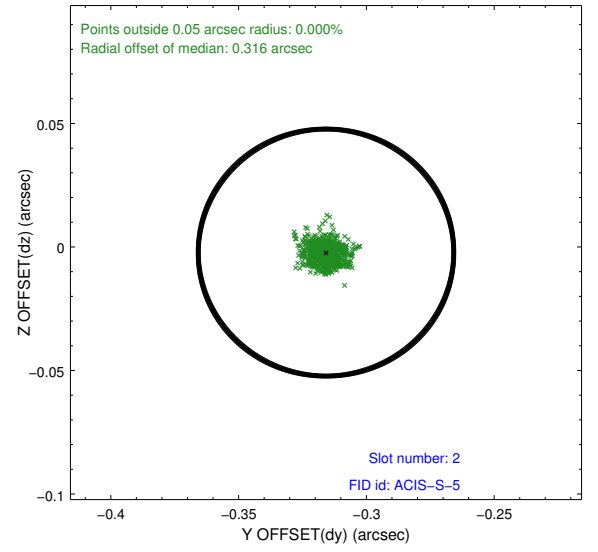
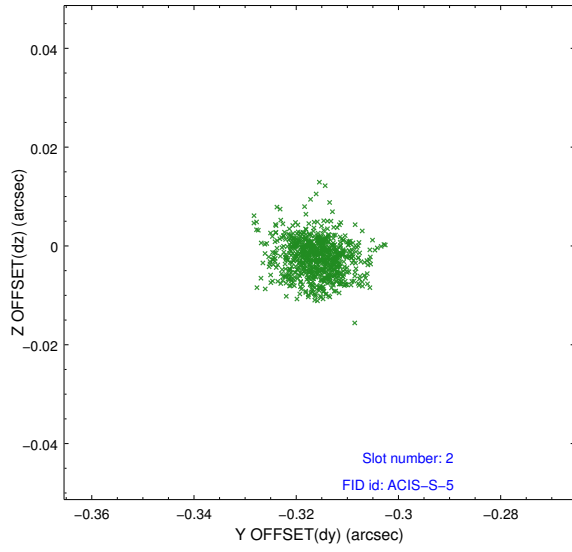
2.5.1 Slot 0



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)	2017.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.07

A.2 Comments