

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19539 - L2 Version 1
Chandra X-Ray Center

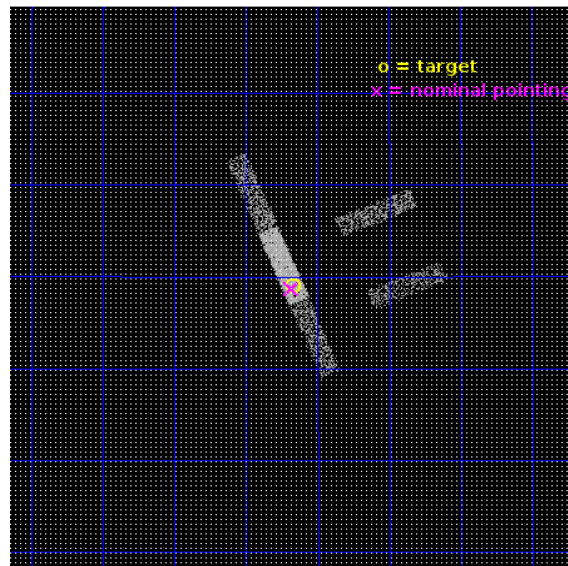
L2 Processing Date : Jun 12 2017

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1 Front

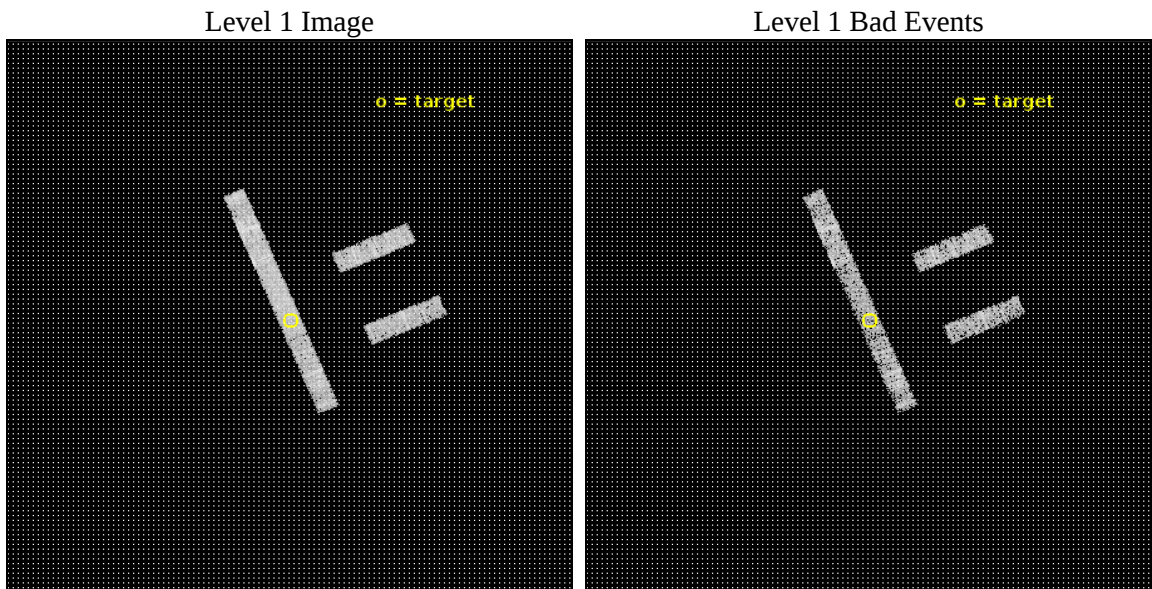
seq_num	703387	Sequence number
obs_id	19539	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ083510.36+035901.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.793333	Observer's specified target RA [deg]
dec_targ	3.983639	Observer's specified target Dec [deg]
ra_nom	128.79600525876	Nominal RA [deg]
dec_nom	3.9781803987499	Nominal Dec [deg]
roll_nom	247.1560615226	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3073.0	Sum of GTIs [s]
livetime	2951.8558364712	Livetime [s]
ontime2	3072.8633799553	Sum of GTIs [s]
ontime3	3072.9454599619	Sum of GTIs [s]
ontime6	3072.9865000248	Sum of GTIs [s]
ontime7	3073.0	Sum of GTIs [s]
ontime8	3072.9044200182	Sum of GTIs [s]
l2events	6249	Number of level 2 events



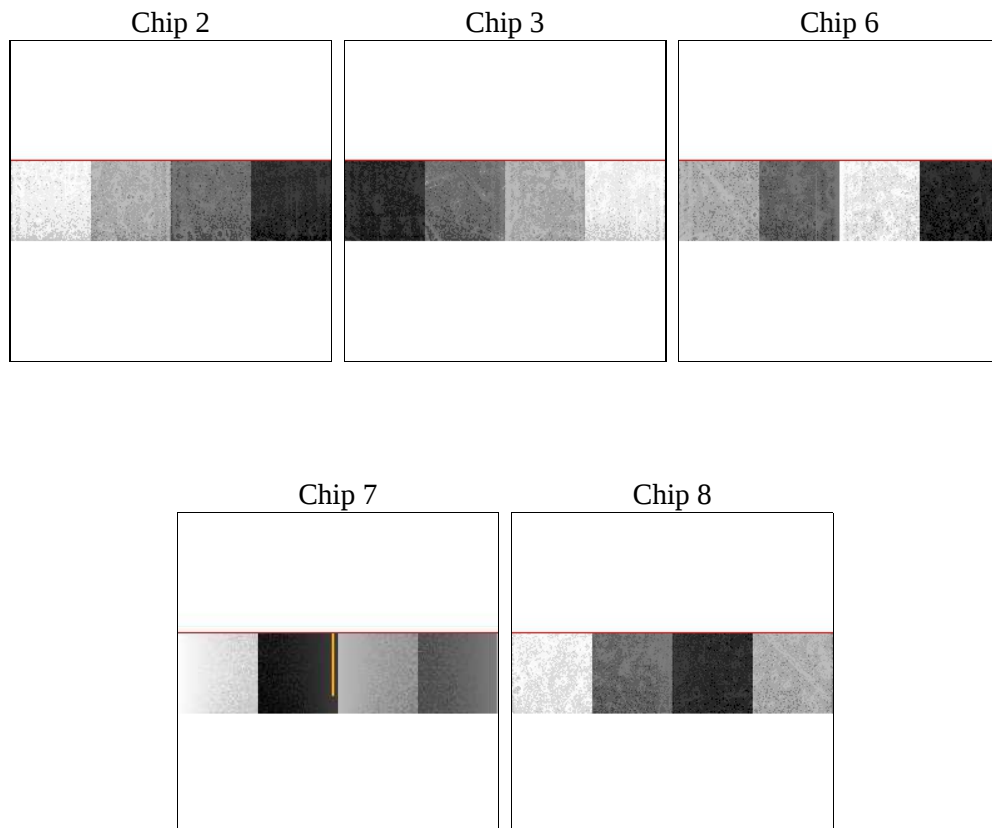
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	3073.0	Sum of GTIs [s]
caldsver	4.7.4	 	ontime2	3072.8633799553	Sum of GTIs [s]
date	2017-06-12T14:17:36	Date and time of file creation	ontime3	3072.9454599619	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3072.9865000248	Sum of GTIs [s]
			ontime7	3073.0	Sum of GTIs [s]
			ontime8	3072.9044200182	Sum of GTIs [s]
			l1events	38102	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5954	7538	6758	8208	9644
rejected events	5295	6769	5952	4399	7200
rejected %	88%	89%	88%	53%	74%

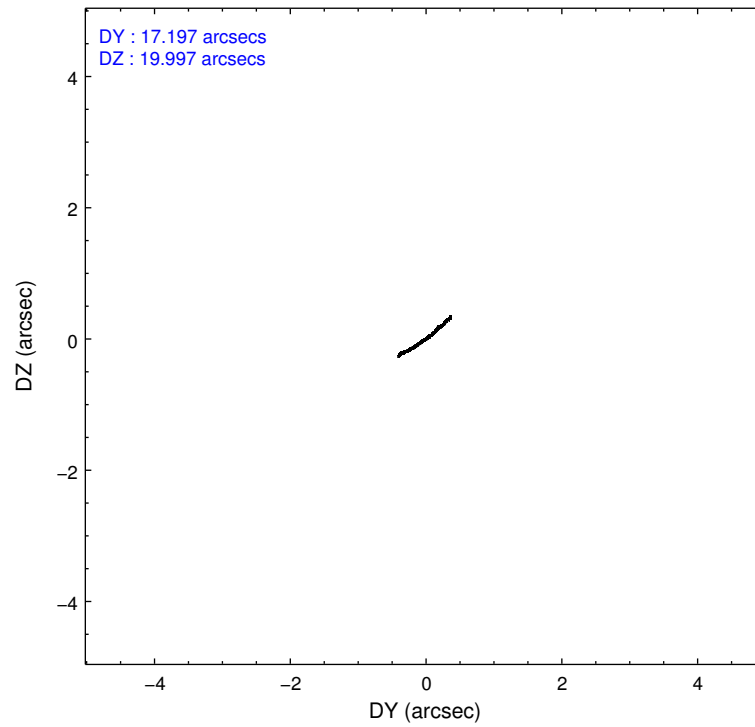
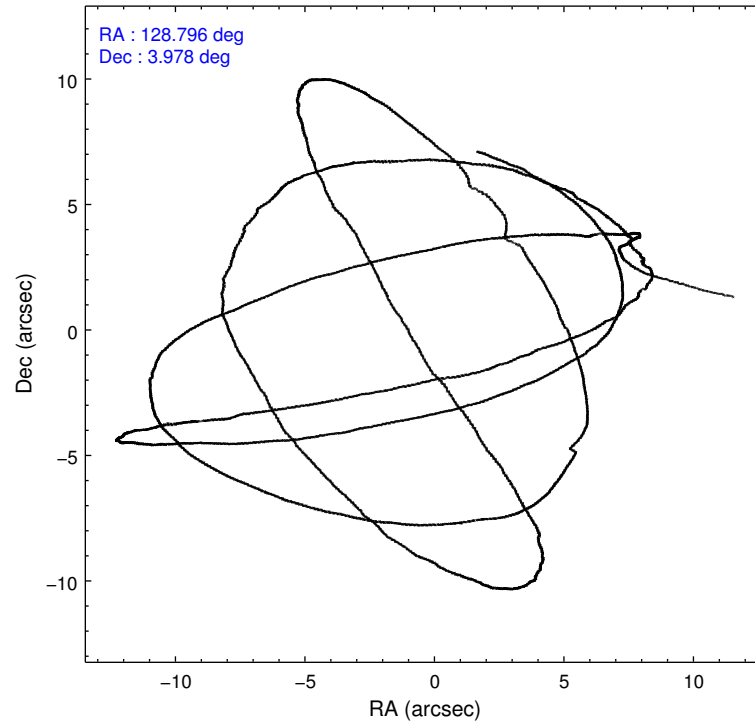
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	207	288	243	407	643
	3%	3%	3%	4%	6%
grade 1 events	0	3	3	21	3
	0%	0%	0%	0%	0%
grade 2 events	151	146	171	837	546
	2%	1%	2%	10%	5%
grade 3 events	99	90	114	381	262
	1%	1%	1%	4%	2%
grade 4 events	82	104	106	372	256
	1%	1%	1%	4%	2%
grade 5 events	218	274	309	841	426
	3%	3%	4%	10%	4%
grade 6 events	120	142	172	1813	738
	2%	1%	2%	22%	7%
grade 7 events	5077	6491	5640	3536	6770
	85%	86%	83%	43%	70%

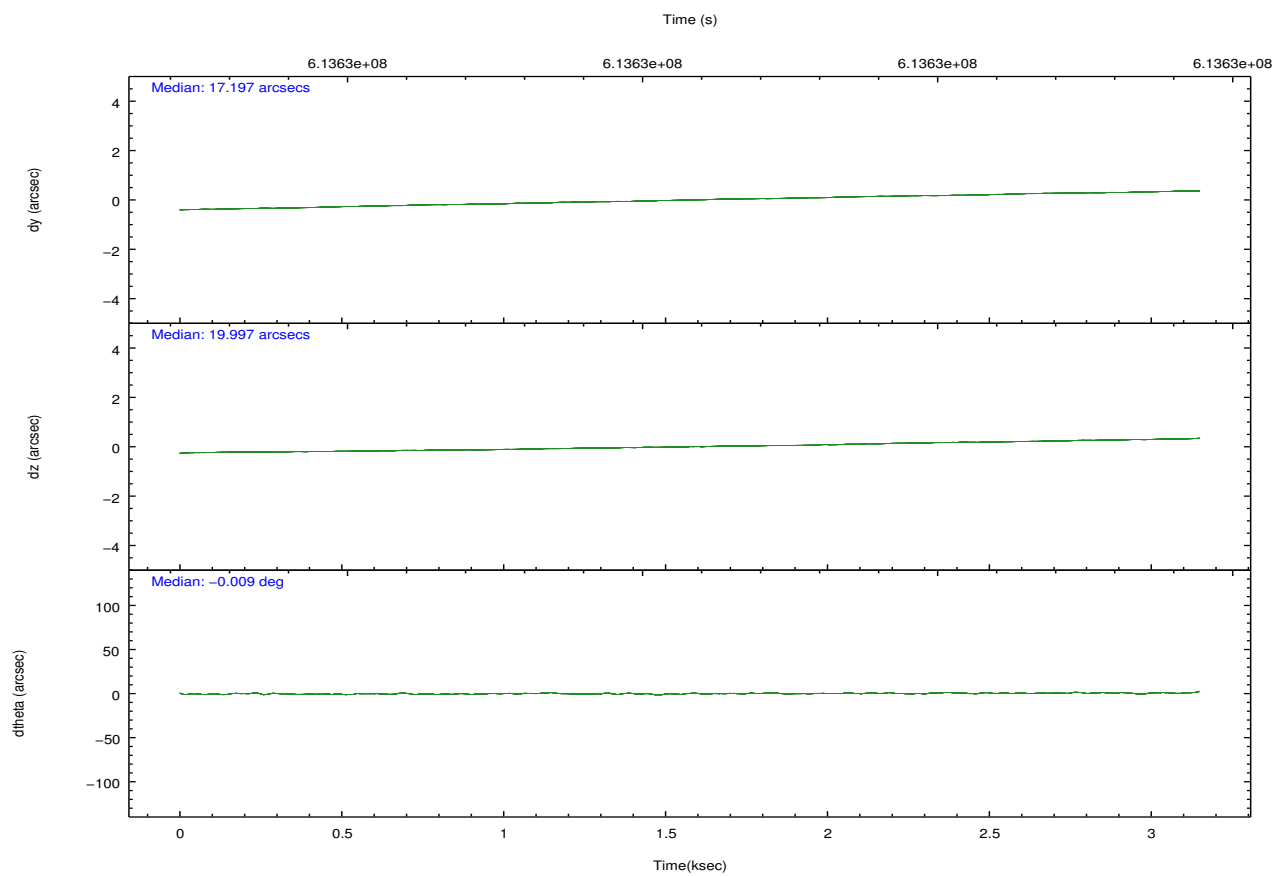
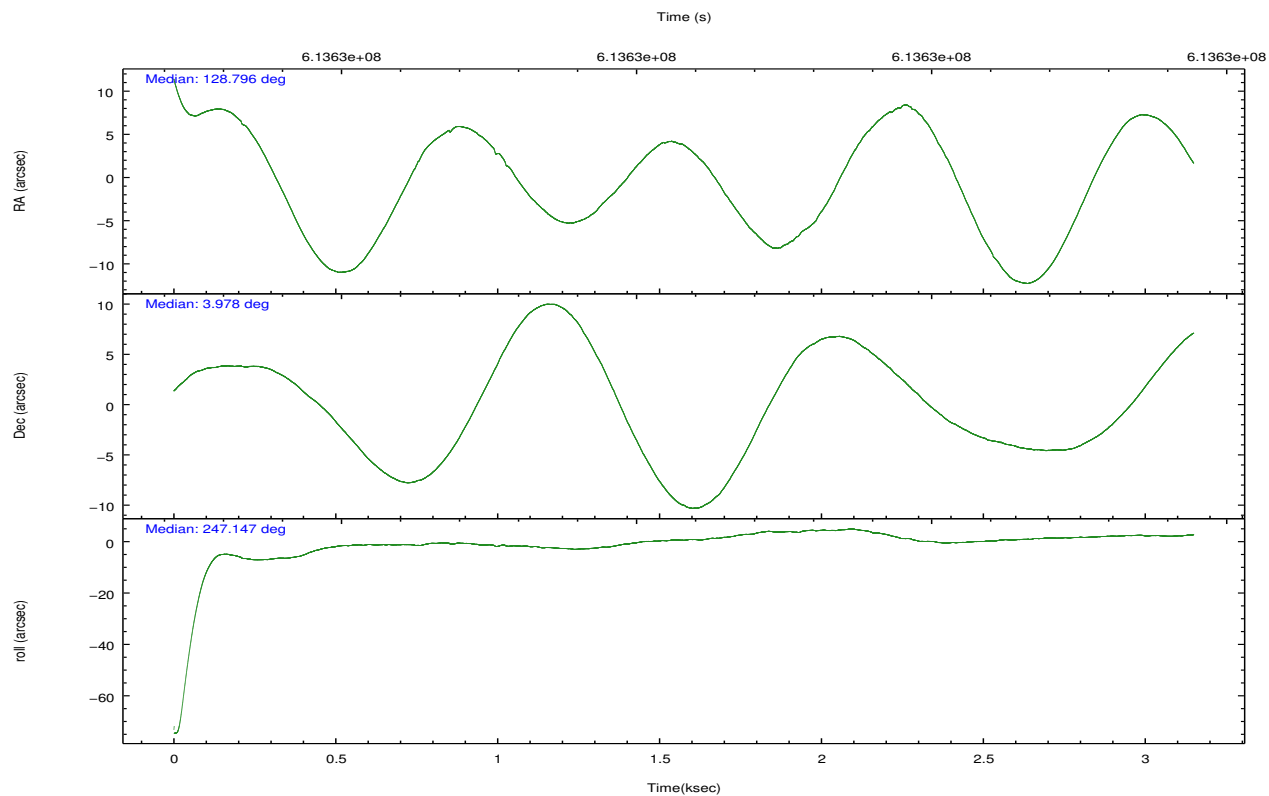
2.2 Compared Parameters

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	128.792044	128.7960052587569
[deg] Pointing Dec	4.005352	3.97818039874991
[deg] Pointing Roll	247.000098	247.1560615226035
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	613626719.184000	613625688.82639
Observation start date	2017-06-12T03:50:50	2017-06-12T03:34:48
[s] Observation end time (MET)	613629719.184000	613630853.2891999
Observation end date	2017-06-12T04:40:50	2017-06-12T05:00:53
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



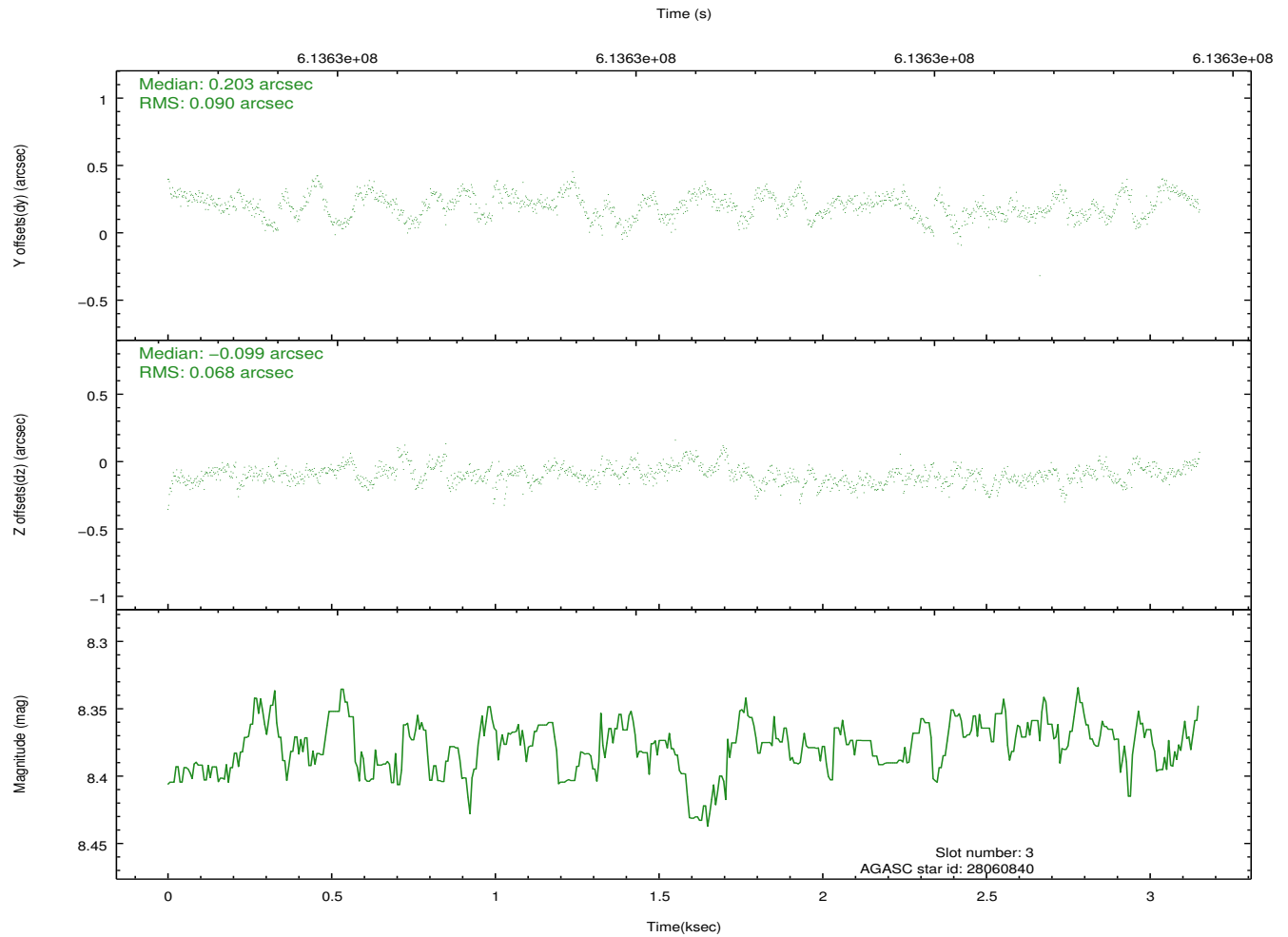
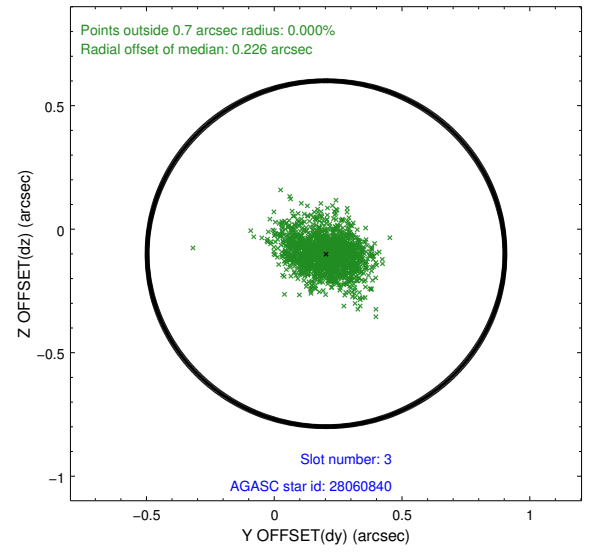
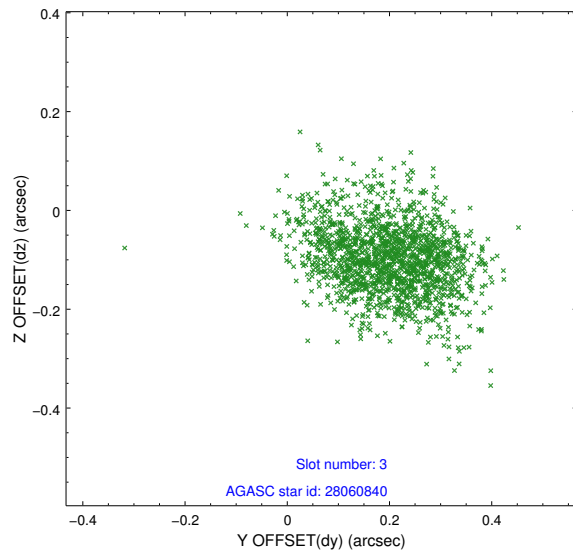


Slot Statistics

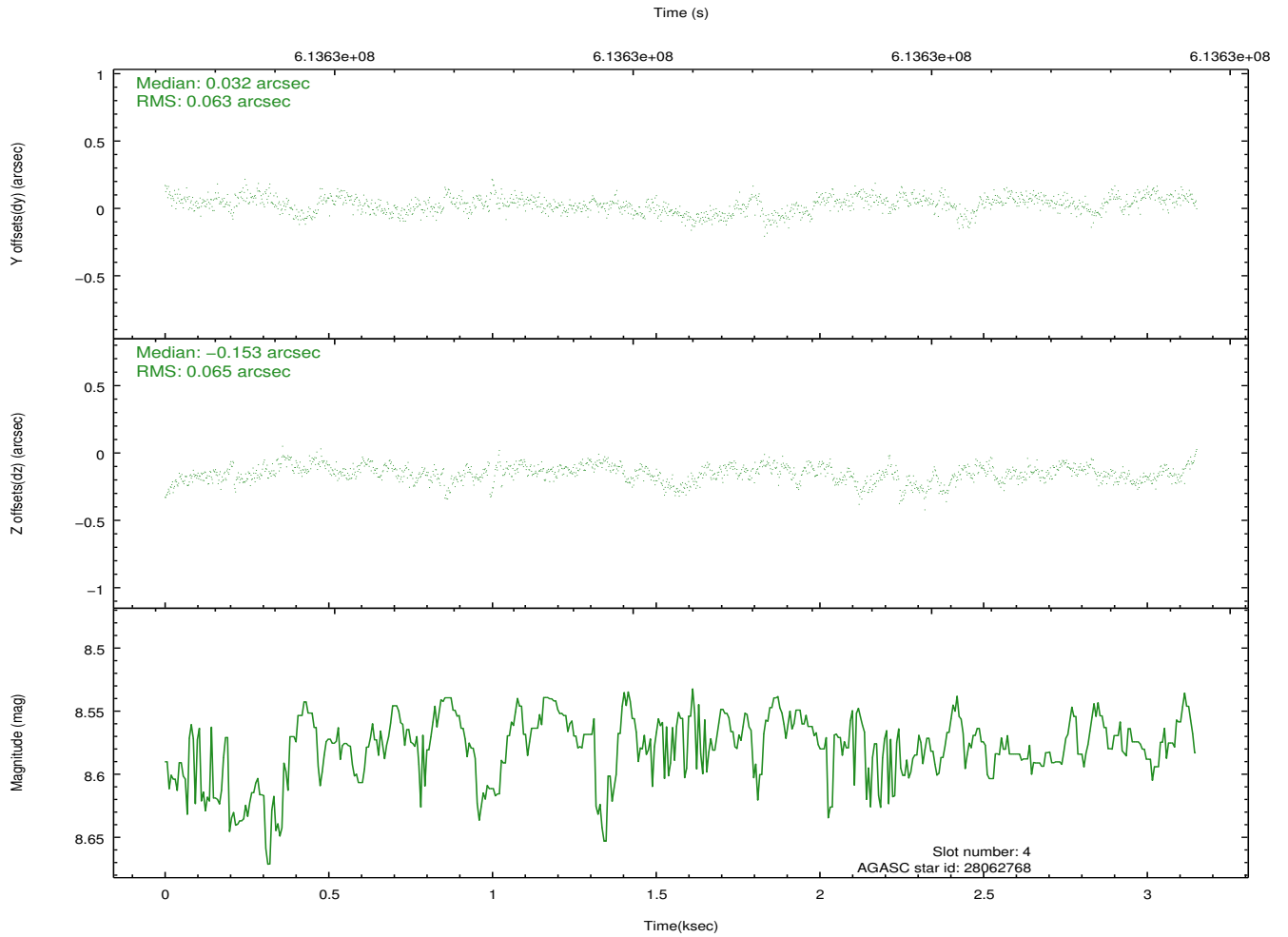
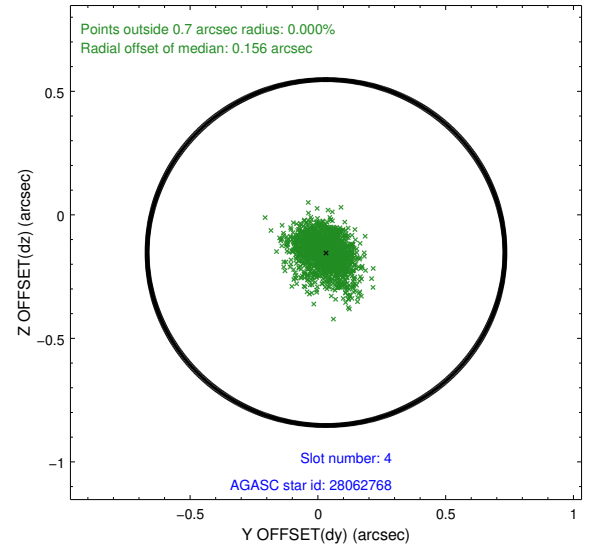
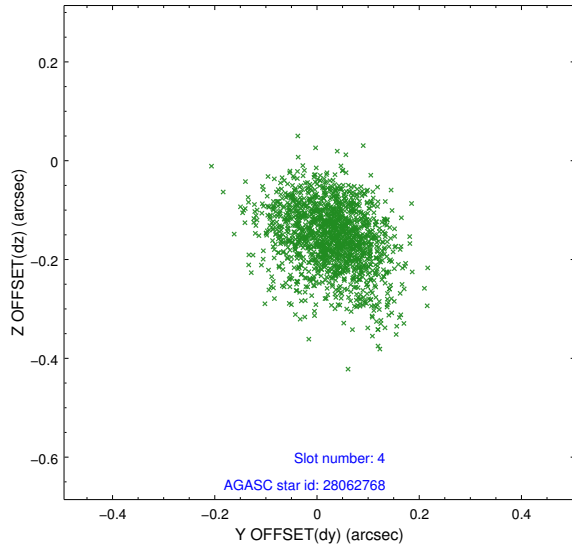
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	769	0.252	-0.071	0.015	0.023	0.000000	0.000000	926.19	-1737.17
1	FID		ACIS-S-2	6.94	769	-0.155	-0.006	0.010	0.014	0.000000	0.000000	-769.00	-1743.87
2	FID		ACIS-S-5	7.04	769	-0.119	0.083	0.014	0.023	0.000000	0.000000	-1824.39	158.25
3	GUIDE	used	28060840	8.38	1538	0.203	-0.099	0.119	0.196	128.116276	3.673480	2048.92	-1768.51
4	GUIDE	used	28062768	8.58	1537	0.032	-0.153	0.096	0.161	128.524644	3.479605	2119.51	-146.30
5	GUIDE	used	28578032	9.21	1535	0.078	0.134	0.258	0.361	128.228249	4.187493	189.06	-2120.08
6	GUIDE	used	28714544	9.07	1537	-0.164	0.368	0.162	0.298	129.538212	4.276721	-1946.95	2082.02
7	GUIDE	used	28714096	8.07	1537	-0.110	-0.233	0.109	0.179	129.471825	3.938337	-734.00	2341.93

2.4 Star Slots

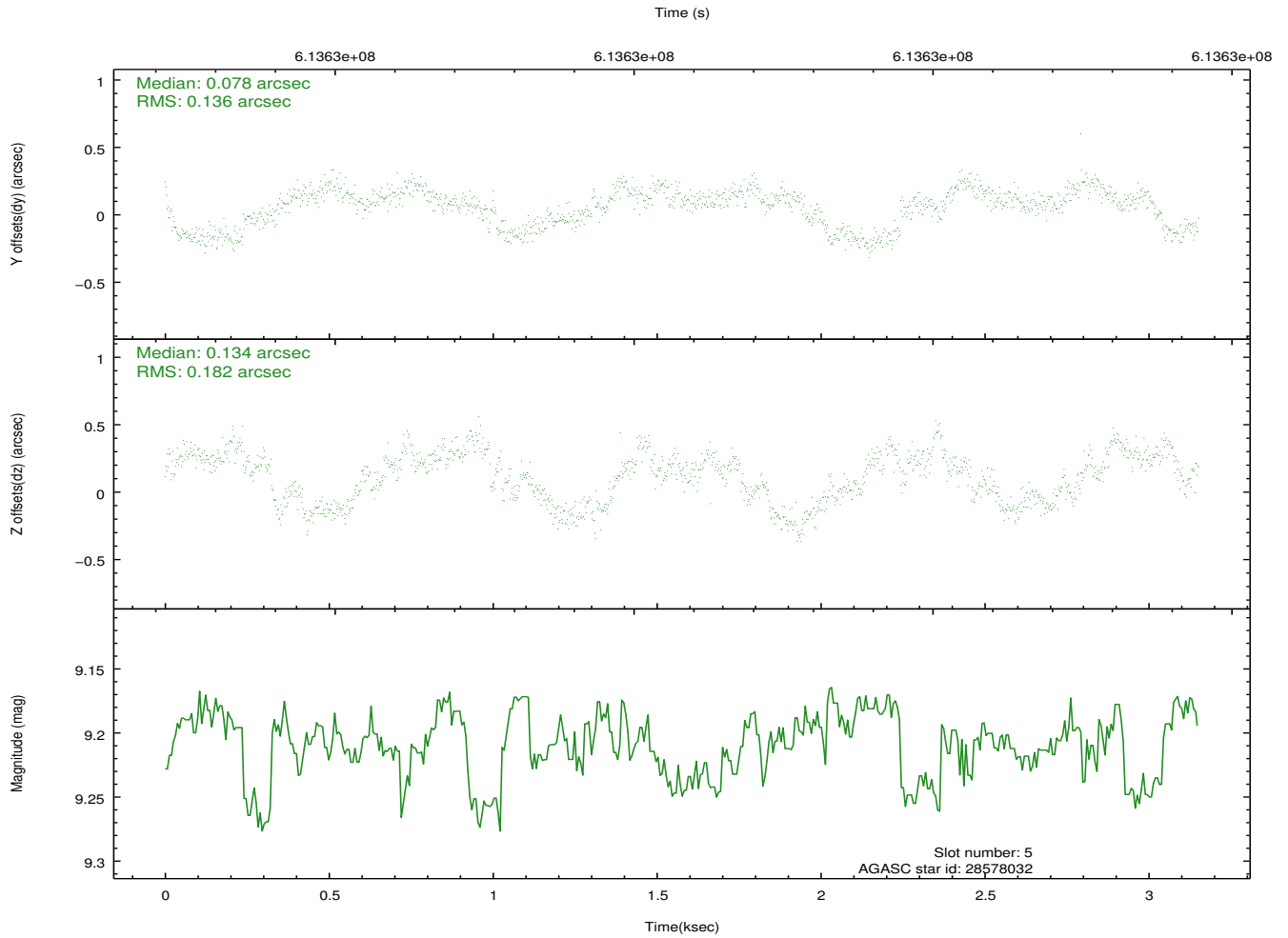
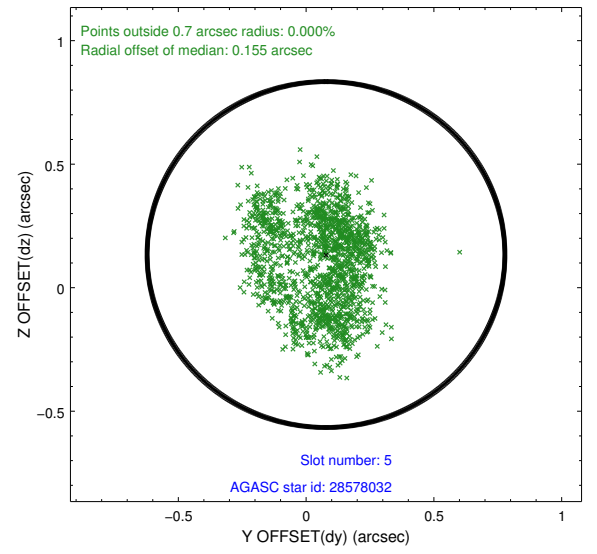
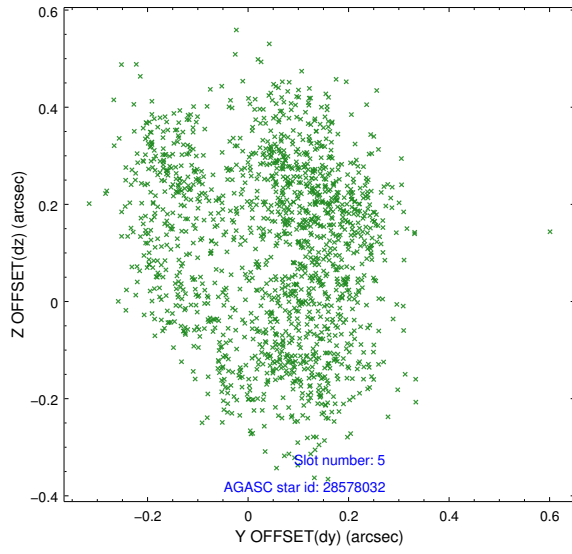
2.4.1 Slot 3



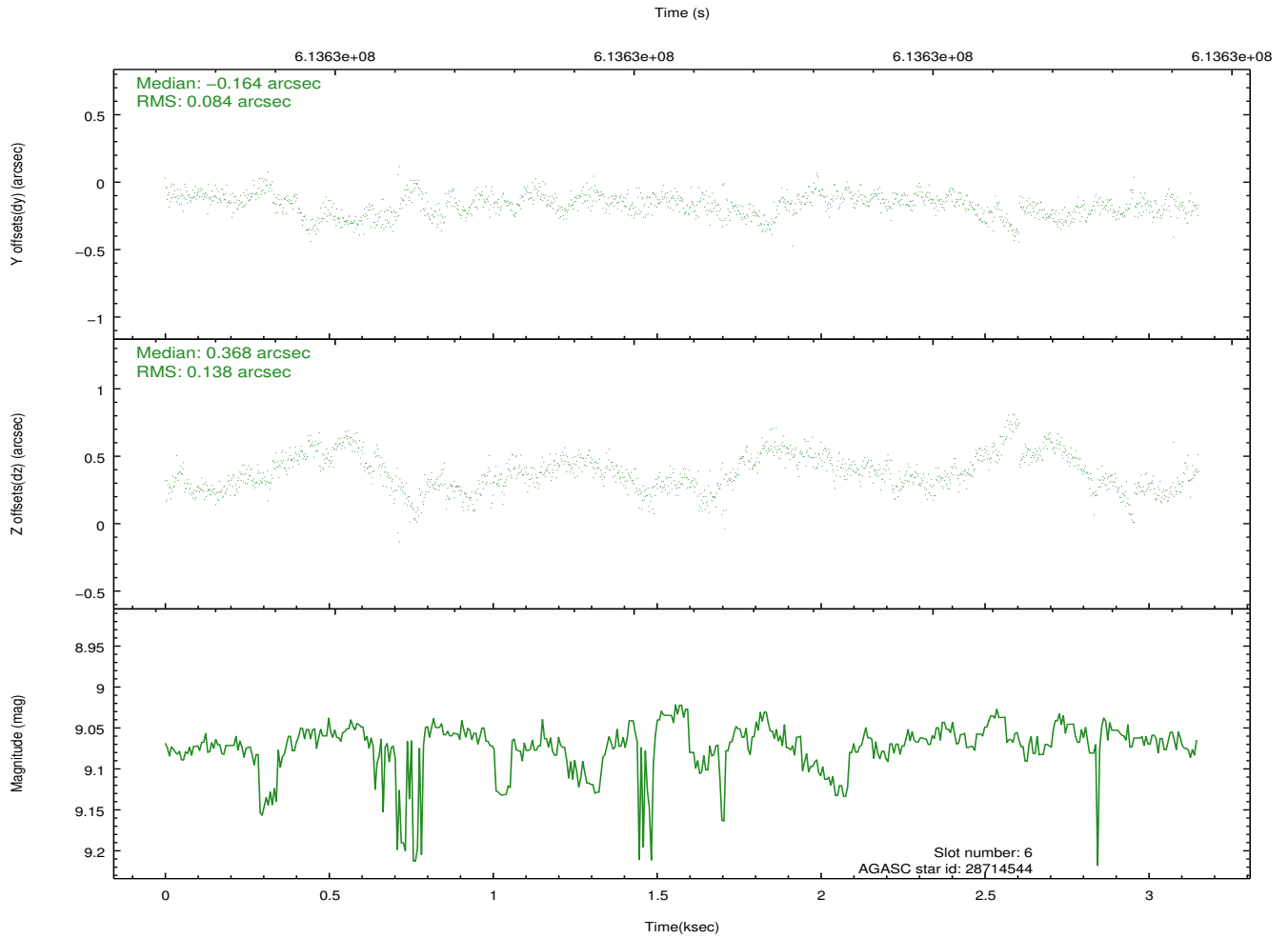
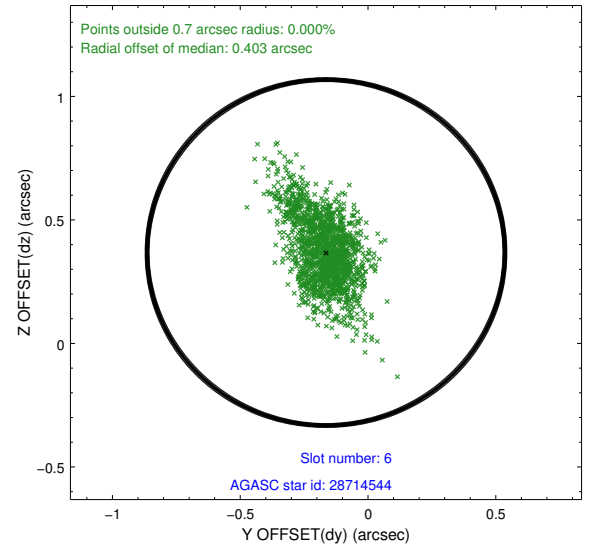
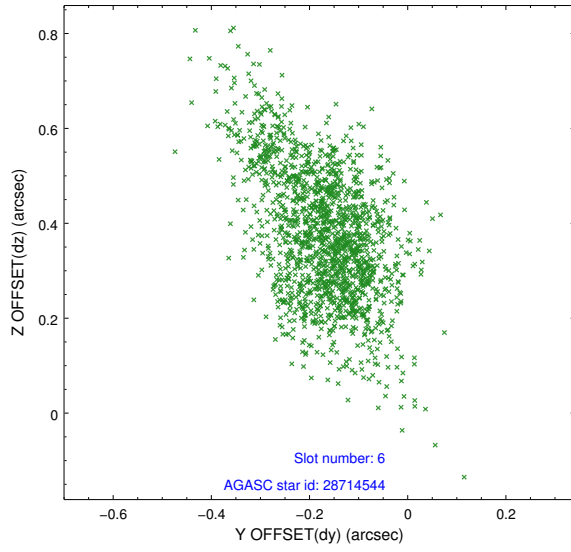
2.4.2 Slot 4



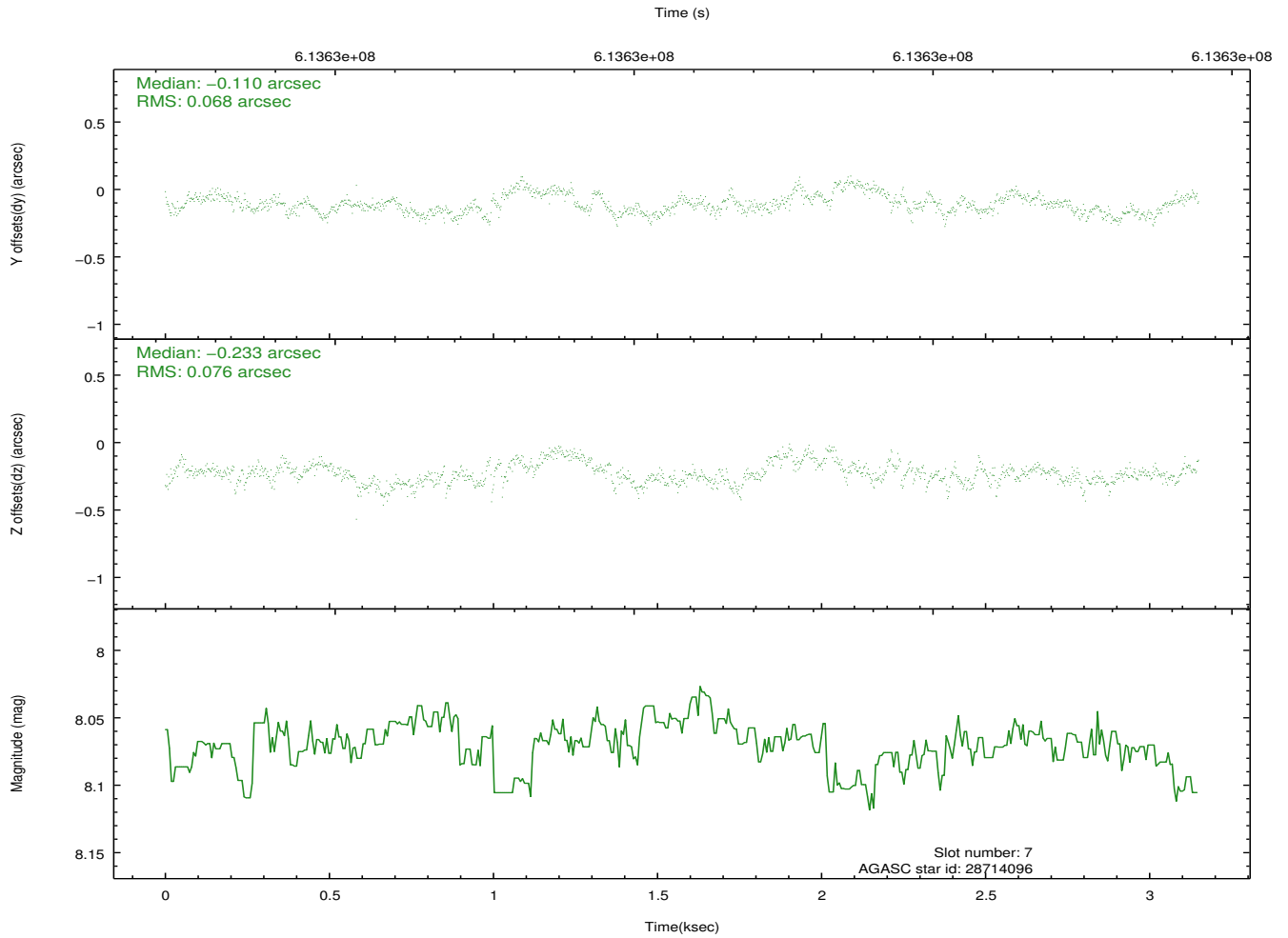
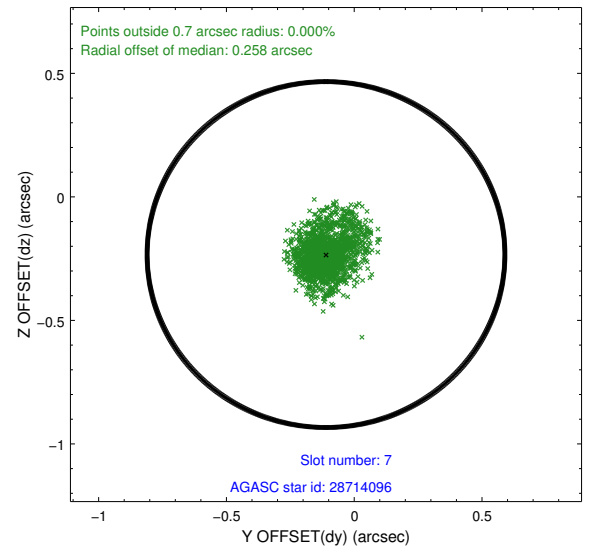
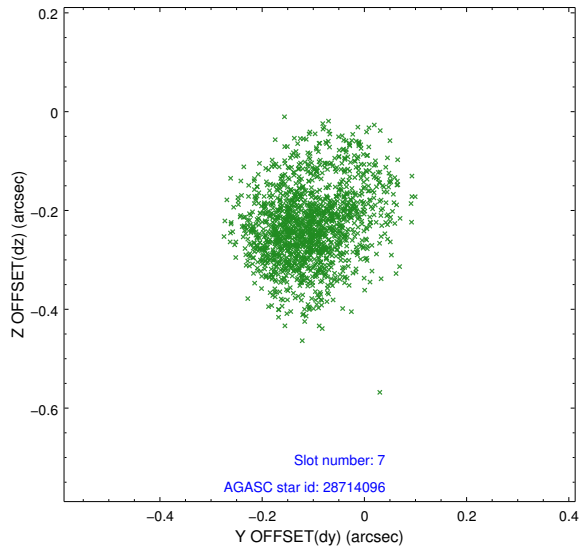
2.4.3 Slot 5



2.4.4 Slot 6

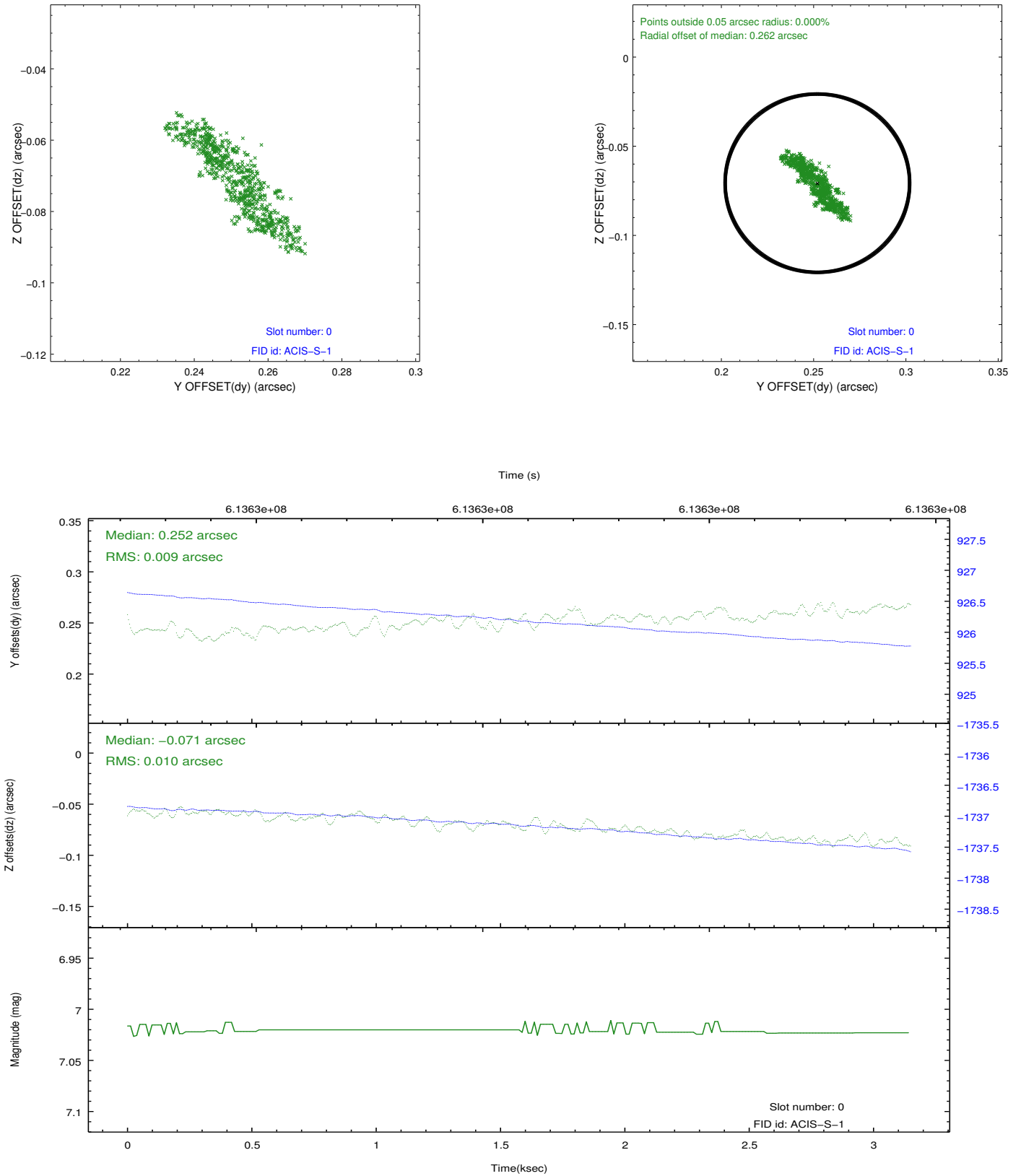


2.4.5 Slot 7

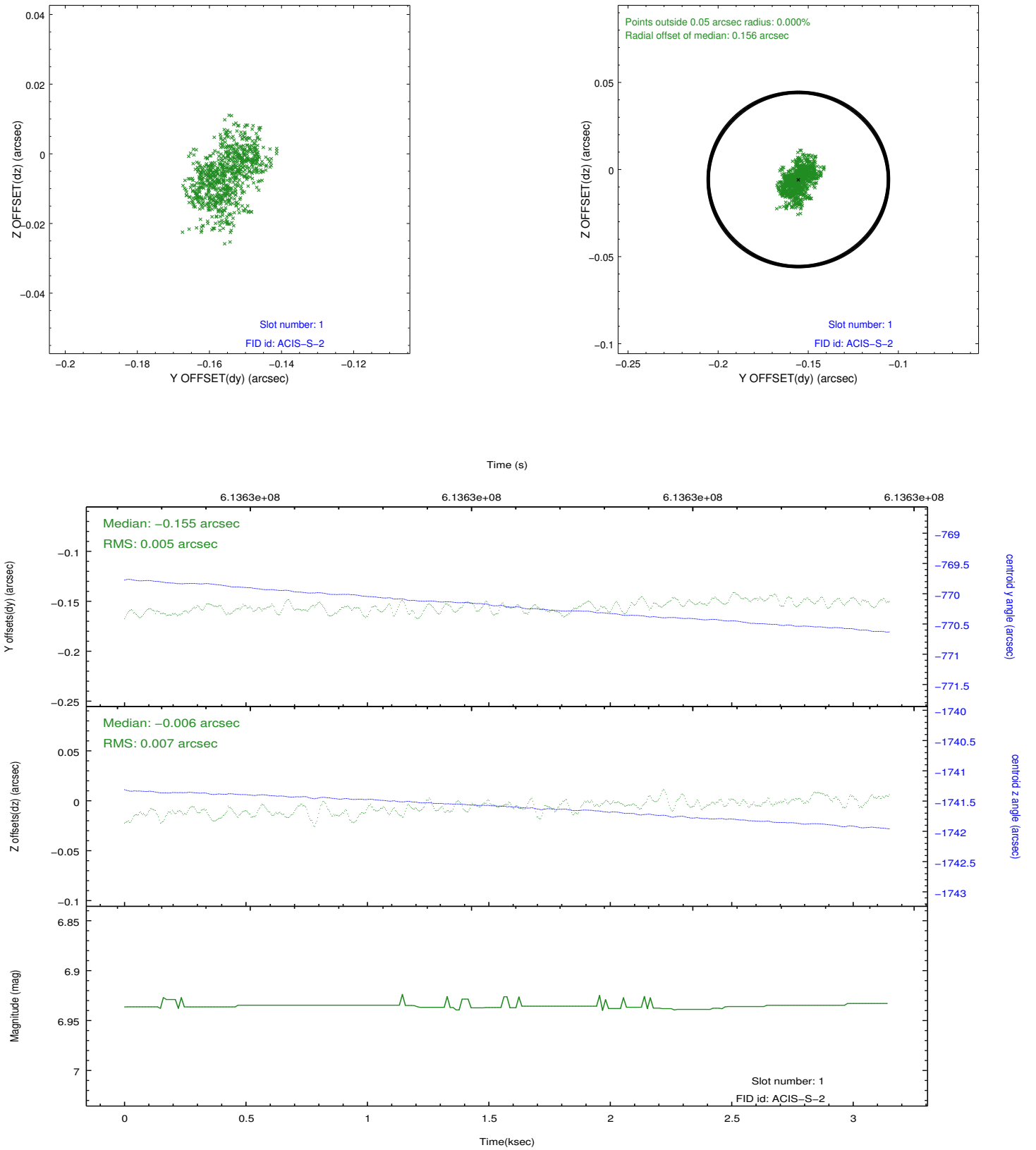


2.5 FID Slots

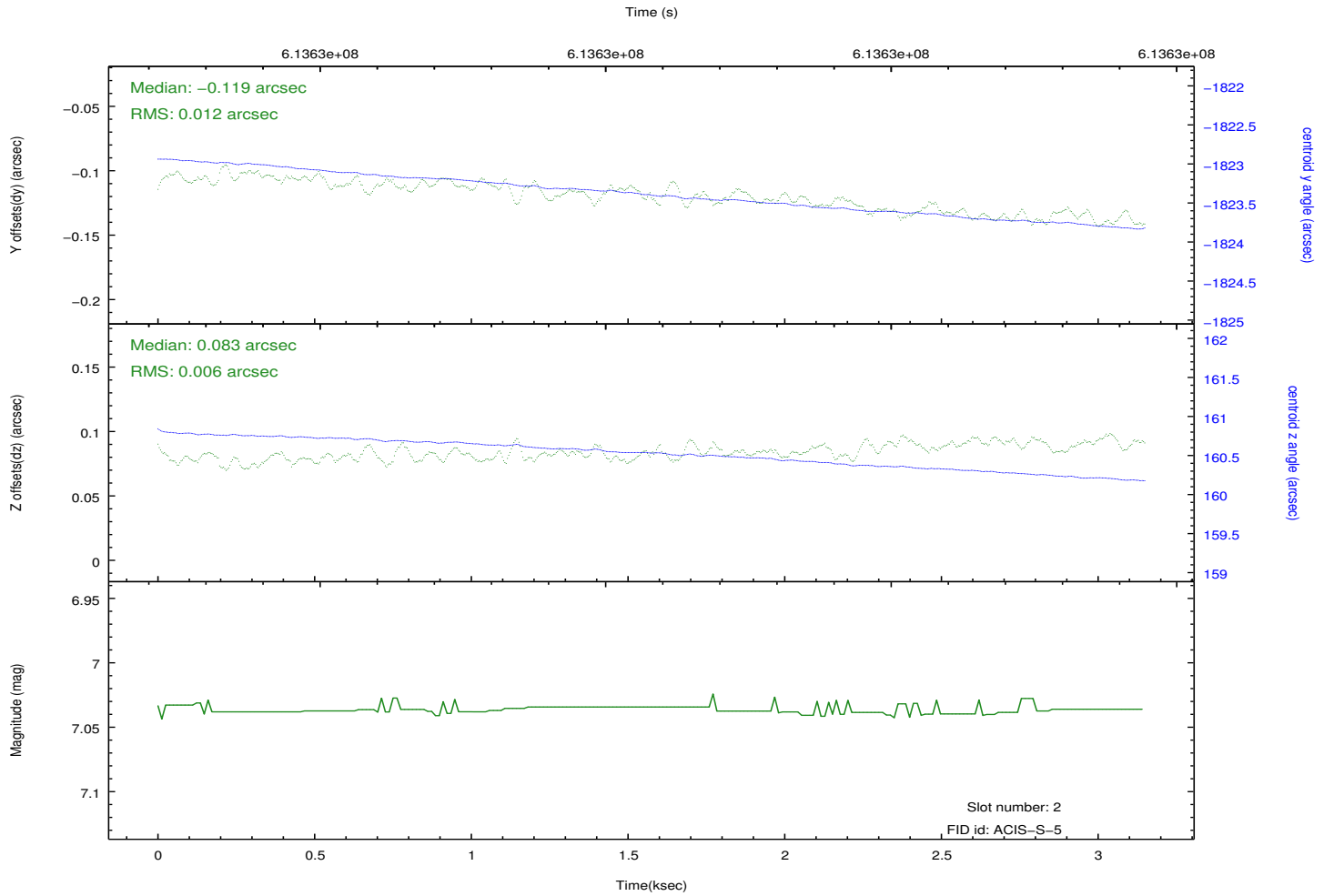
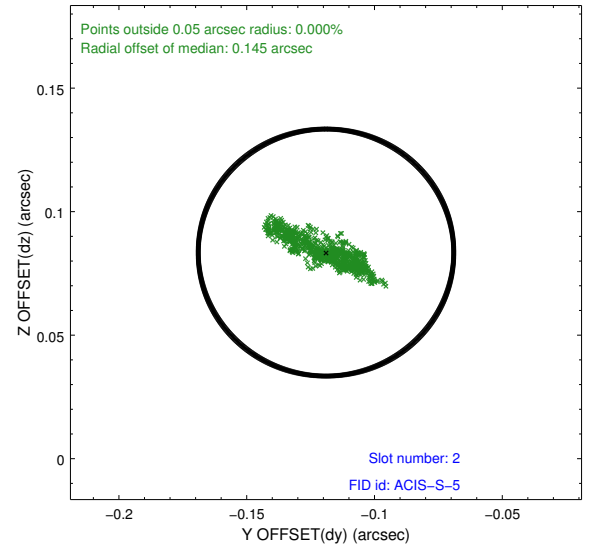
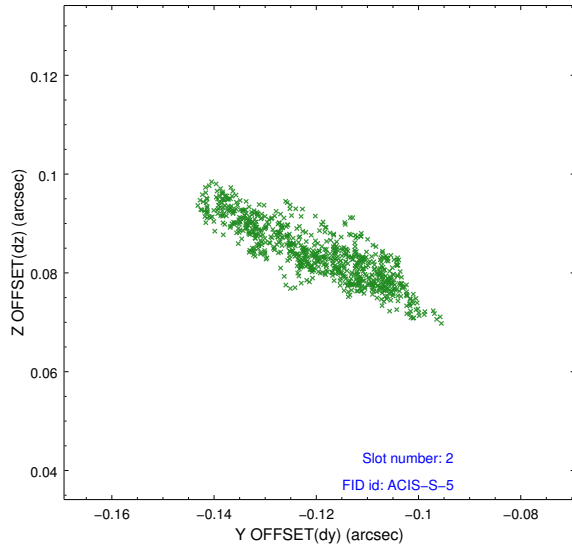
2.5.1 Slot 0



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)	2017.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.073

A.2 Comments