

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18880 - L2 Version 1
Chandra X-Ray Center

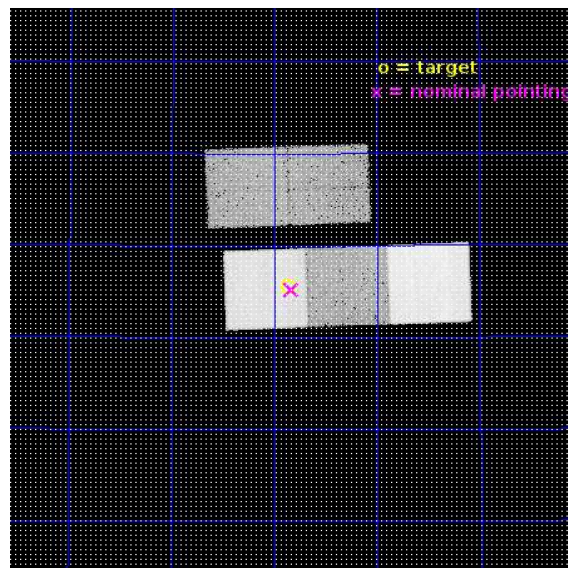
L2 Processing Date : Mar 20 2017

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1 Front

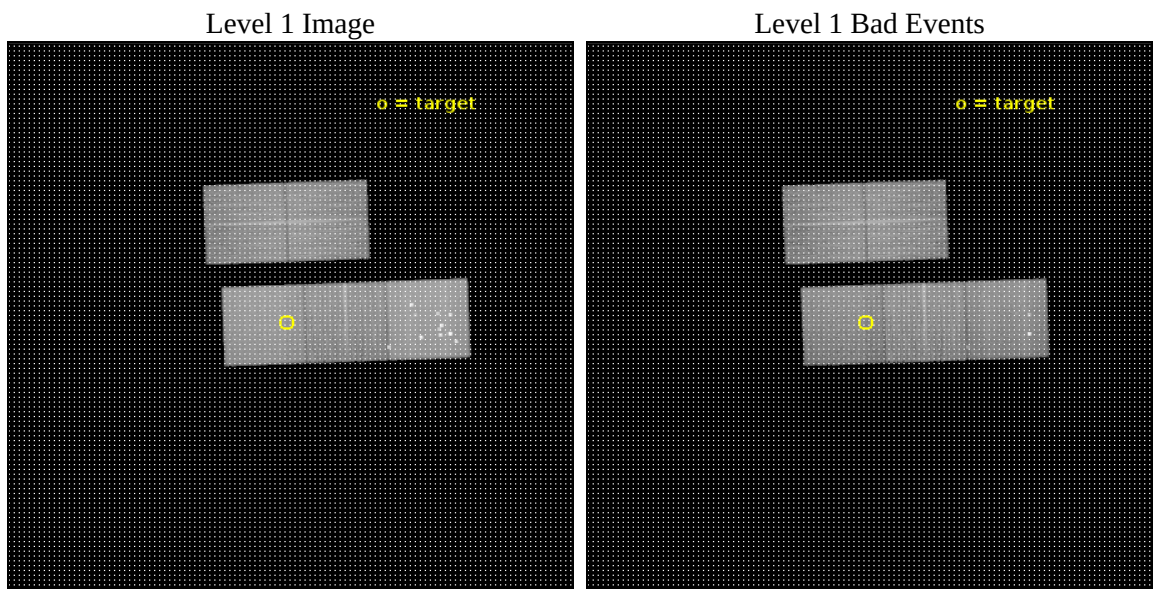
seq_num	502666	Sequence number
obs_id	18880	Observation id
title	Chandra Observations of the Brightest and Closest H-poor Superluminous Supernova Gaia16apd	Proposal title
observer	Lin Yan	Principal investigator
object	Gaia16apd	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.715417	Observer's specified target RA [deg]
dec_targ	44.257611	Observer's specified target Dec [deg]
ra_nom	180.7085498136	Nominal RA [deg]
dec_nom	44.253038951466	Nominal Dec [deg]
roll_nom	177.82699851597	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29047.000223517	Sum of GTIs [s]
livetime	28667.479781507	Livetime [s]
ontime2	29043.859143376	Sum of GTIs [s]
ontime3	29047.000223517	Sum of GTIs [s]
ontime5	29047.000223517	Sum of GTIs [s]
ontime6	29047.000223517	Sum of GTIs [s]
ontime7	29047.000223517	Sum of GTIs [s]
l2events	325876	Number of level 2 events



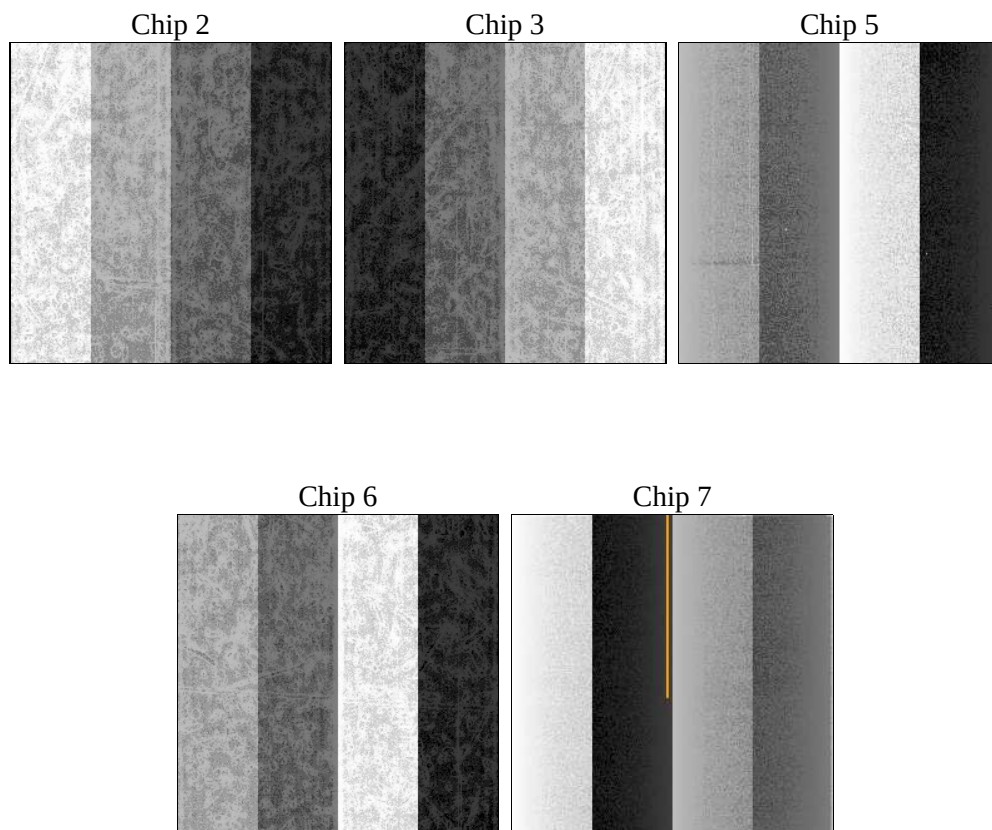
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	29047.000223517	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	29043.859143376	Sum of GTIs [s]
date	2017-03-20T05:51:46	Date and time of file creation	ontime3	29047.000223517	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	29047.000223517	Sum of GTIs [s]
			ontime6	29047.000223517	Sum of GTIs [s]
			ontime7	29047.000223517	Sum of GTIs [s]
			l1events	1347952	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	227283	213934	407280	222935	276520
rejected events	205250	192005	190281	199394	160037
rejected %	90%	89%	46%	89%	57%

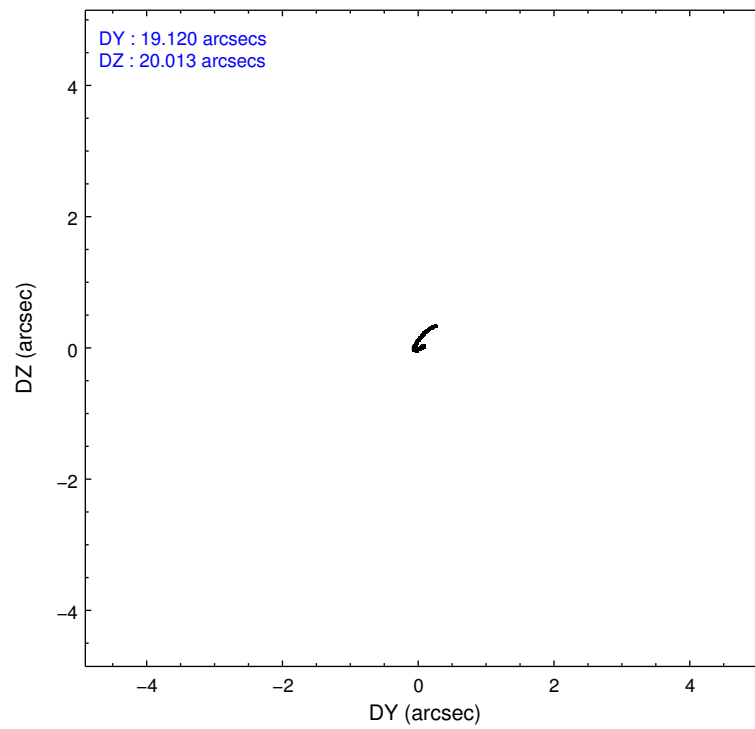
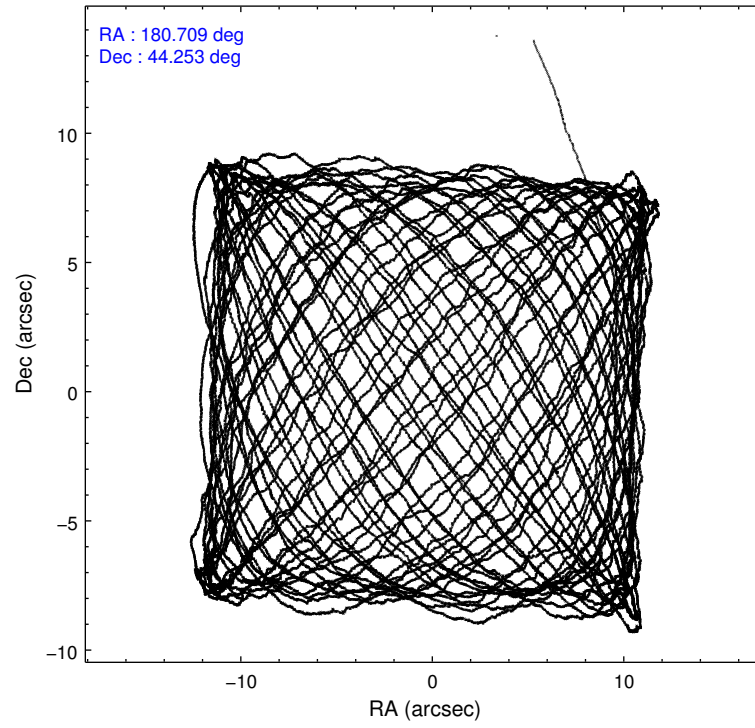
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7858	7733	50324	7494	9098
	3%	3%	12%	3%	3%
grade 1 events	107	102	890	100	383
	0%	0%	0%	0%	0%
grade 2 events	5304	4812	62334	5783	25046
	2%	2%	15%	2%	9%
grade 3 events	2220	2418	7354	2273	8545
	0%	1%	1%	1%	3%
grade 4 events	2297	2312	6069	2165	8365
	1%	1%	1%	0%	3%
grade 5 events	7975	9869	24354	9486	26103
	3%	4%	5%	4%	9%
grade 6 events	4358	4662	90975	5834	65462
	1%	2%	22%	2%	23%
grade 7 events	197164	182026	164980	189800	133518
	86%	85%	40%	85%	48%

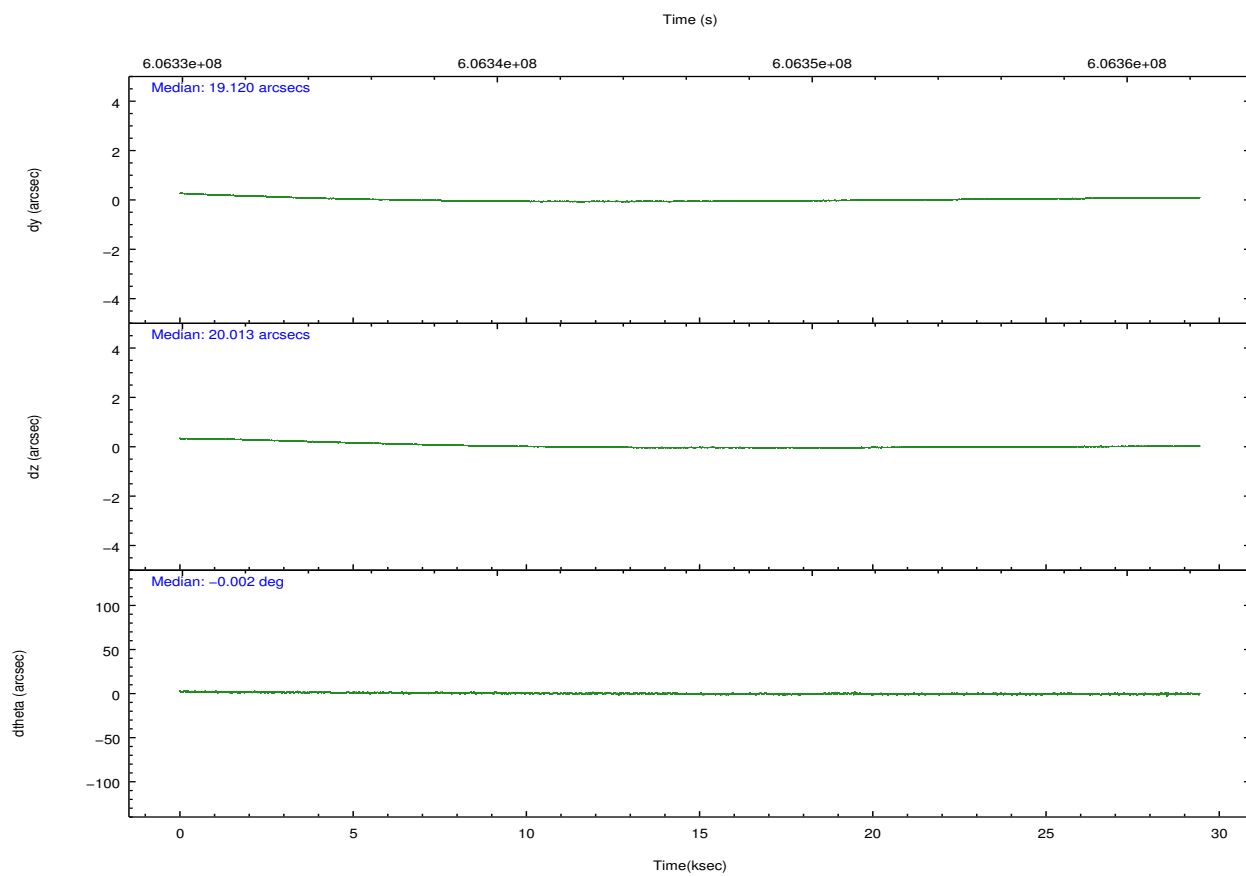
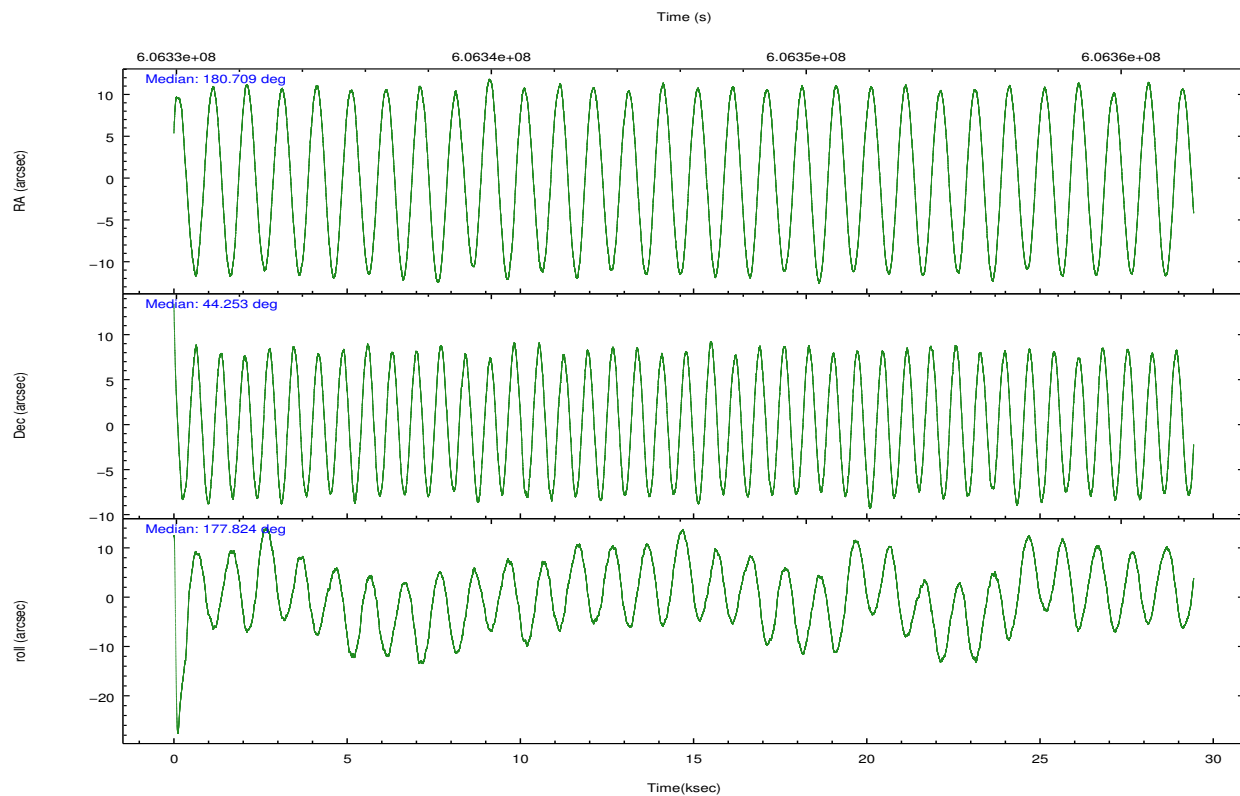
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	180.742184	180.7085498135967
[deg] Pointing Dec	44.266188	44.25303895146649
[deg] Pointing Roll	177.646876	177.8269985159661
[s] Window start time (MET)	605923269.184000	605923269.184000
[s] Window stop time (MET)	608515269.184000	608515269.184000
[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)	606331842.184000	606330774.6774499
Observation start date	2017-03-19T17:29:33	2017-03-19T17:12:54
[s] Observation end time (MET)	606360842.184000	606361671.76674
Observation end date	2017-03-20T01:32:53	2017-03-20T01:47:51
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	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	O3	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



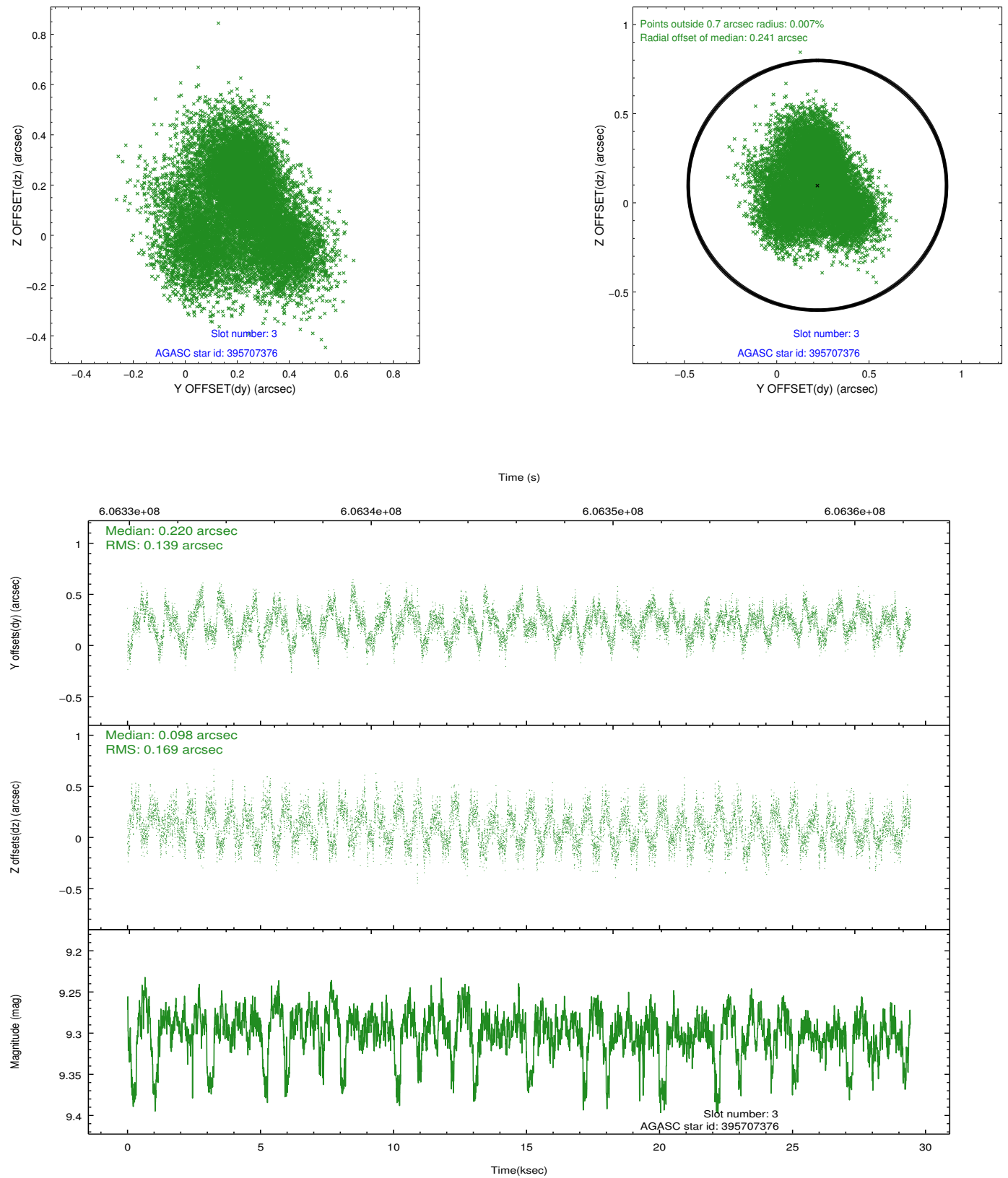


Slot Statistics

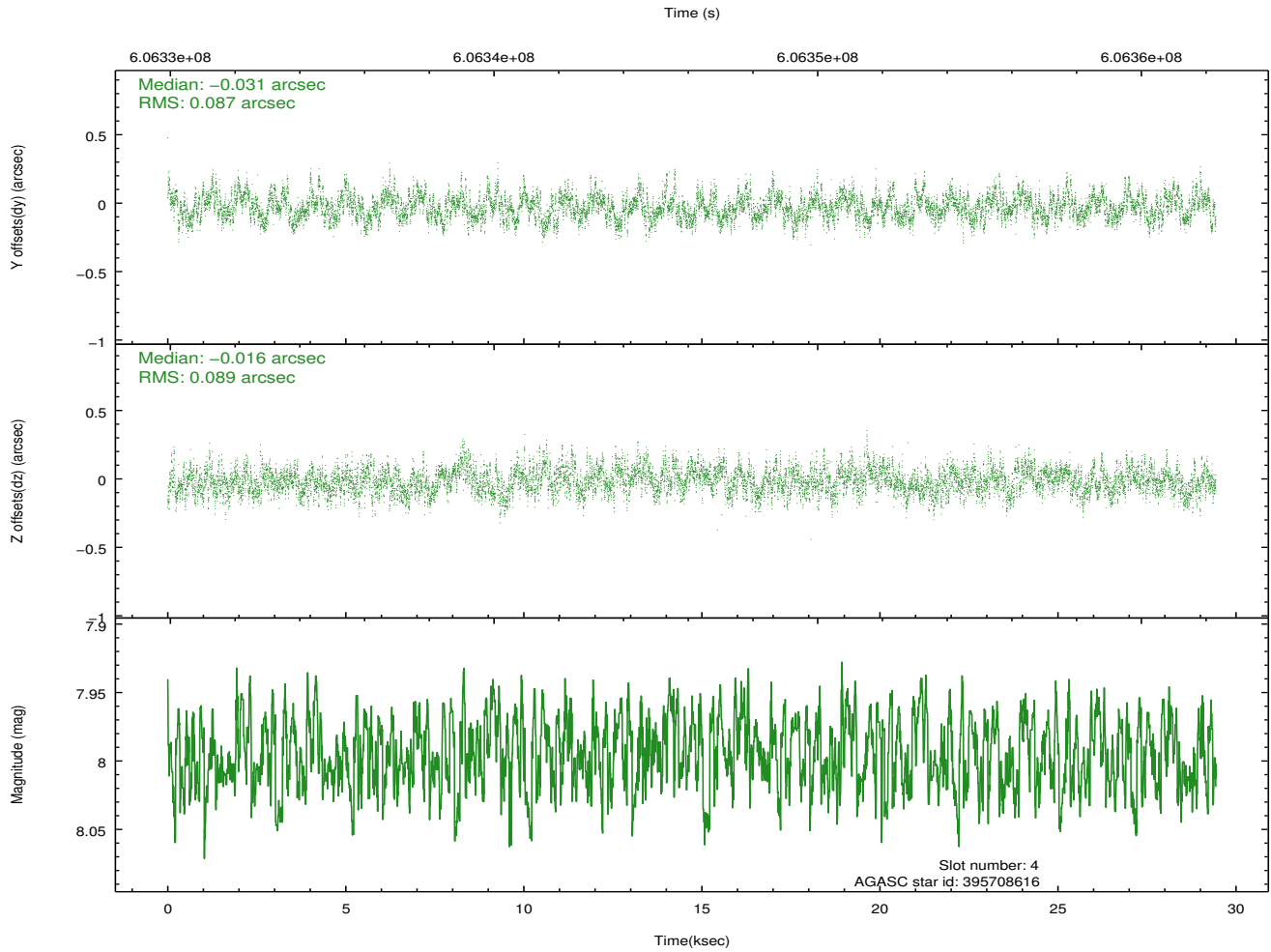
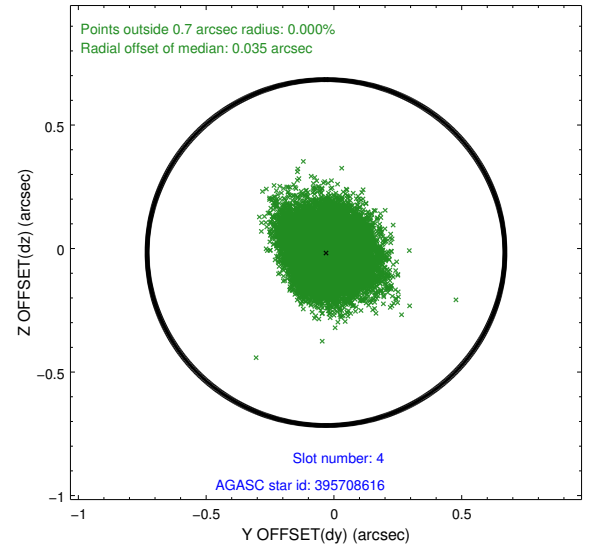
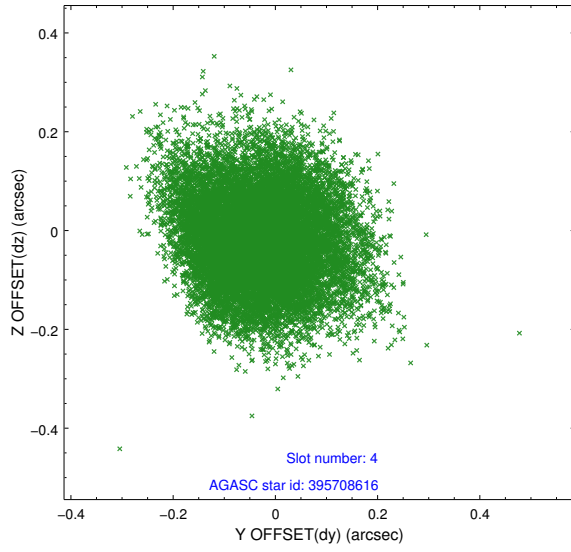
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	7180	-0.361	-0.240	0.010	0.015	0.000000	0.000000	-772.65	-1741.73
1	FID		ACIS-S-4	7.20	7179	0.380	0.216	0.008	0.012	0.000000	0.000000	2141.41	167.01
2	FID		ACIS-S-6	7.34	7178	-0.046	0.032	0.008	0.013	0.000000	0.000000	389.84	804.38
3	GUIDE	used	395707376	9.30	14336	0.220	0.098	0.239	0.363	180.967983	44.858789	-486.81	-2154.79
4	GUIDE	used	395708616	8.00	14352	-0.031	-0.016	0.133	0.211	180.101872	44.630343	1693.80	-1248.68
5	GUIDE	used	395708696	8.88	14343	0.166	-0.135	0.130	0.228	180.383726	44.624291	971.83	-1252.14
6	GUIDE	used	395709608	8.34	14355	-0.189	-0.094	0.165	0.245	181.055130	44.450389	-775.57	-696.90
7	GUIDE	used	395710032	8.76	14343	-0.172	0.149	0.126	0.201	181.512910	44.376001	-1964.30	-485.29

2.4 Star Slots

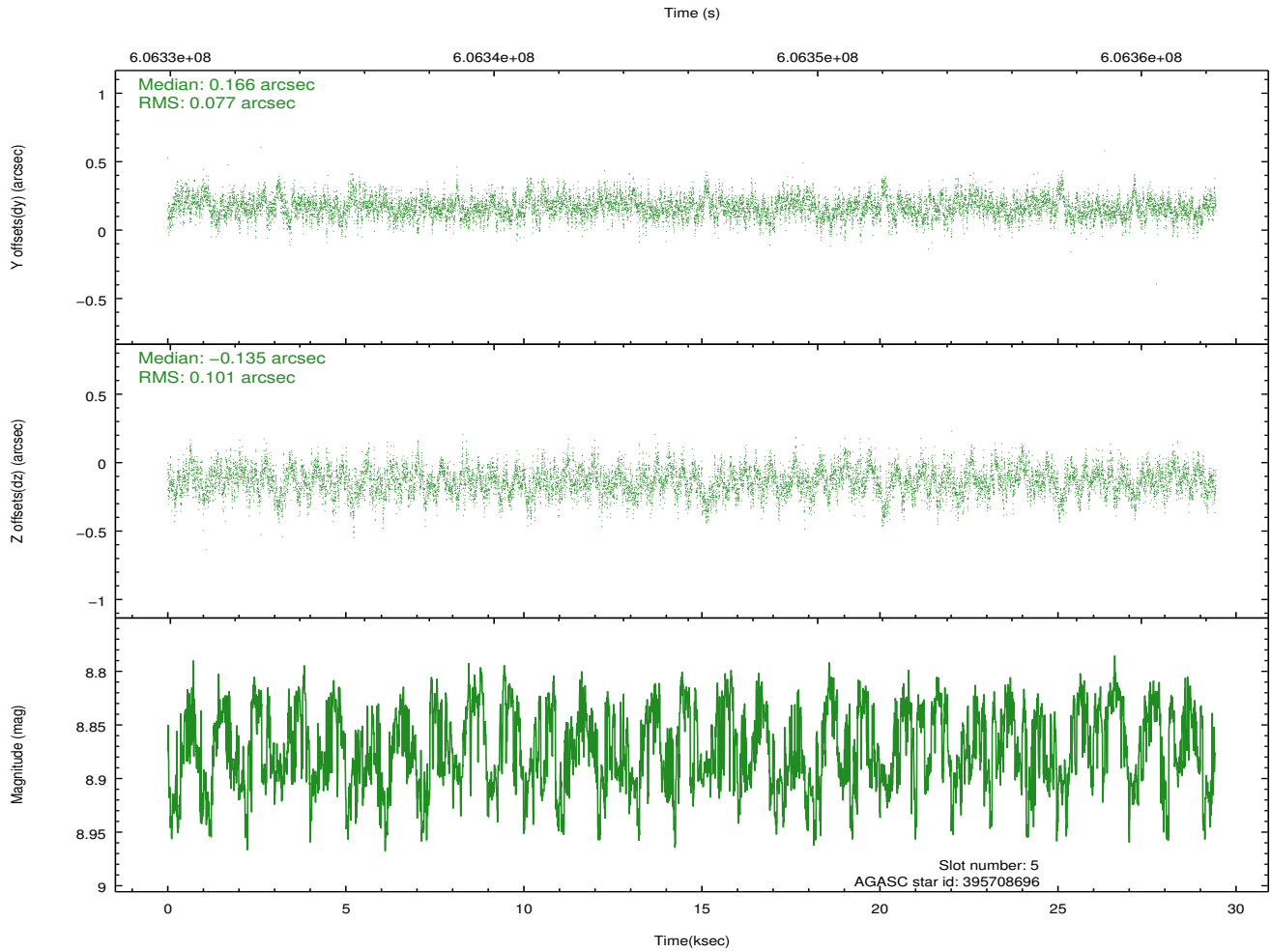
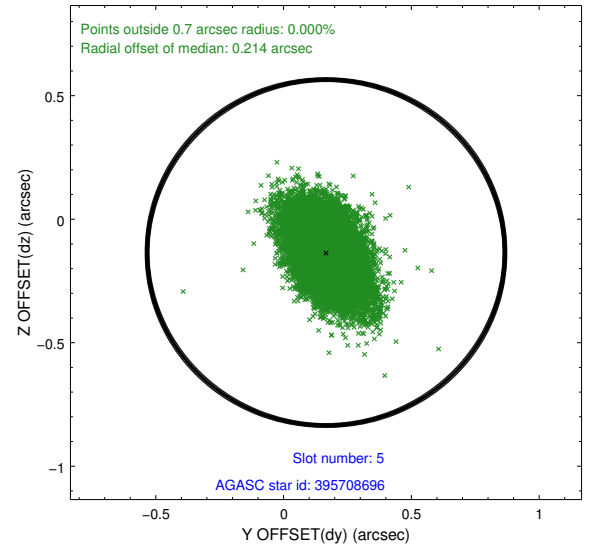
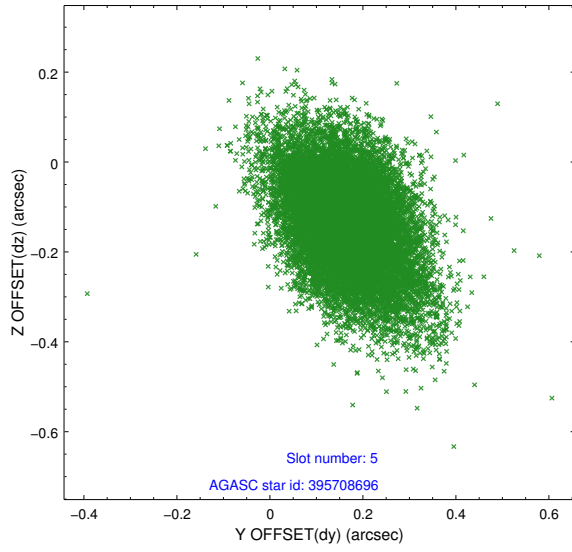
2.4.1 Slot 3



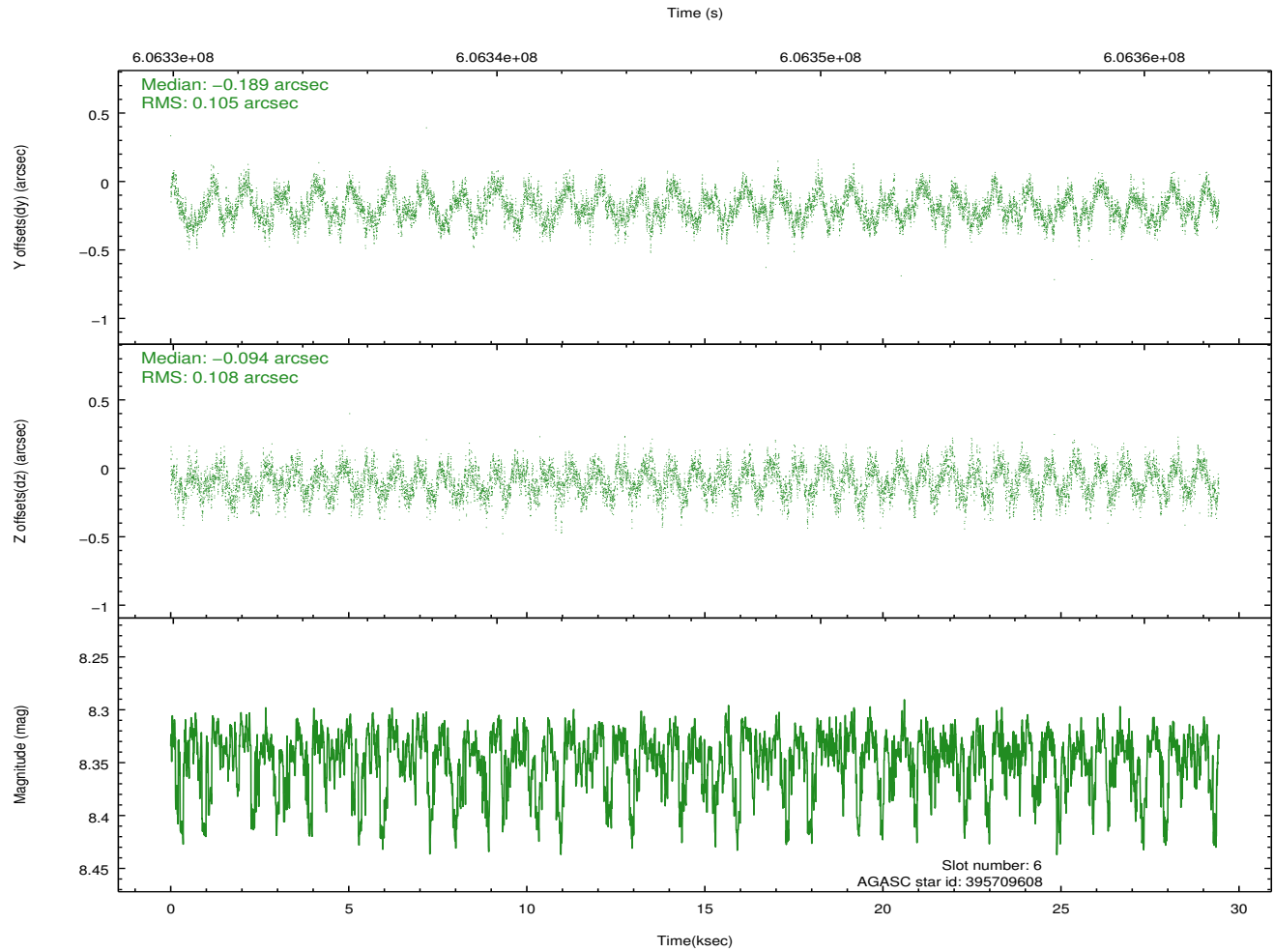
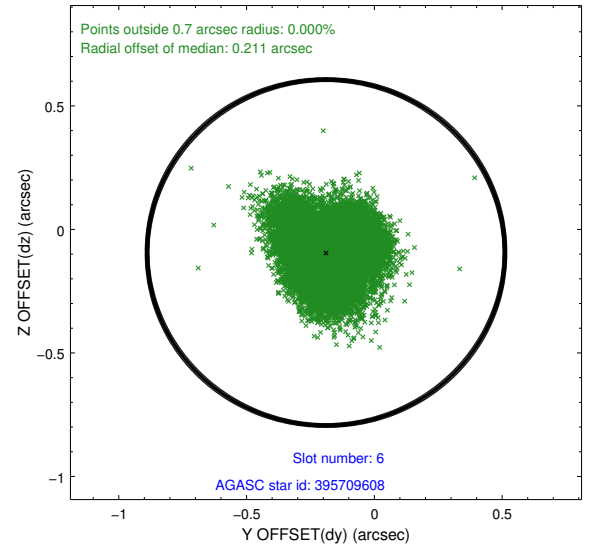
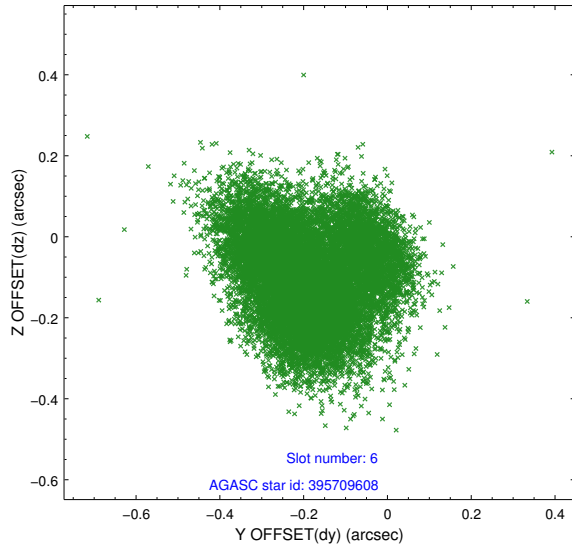
2.4.2 Slot 4



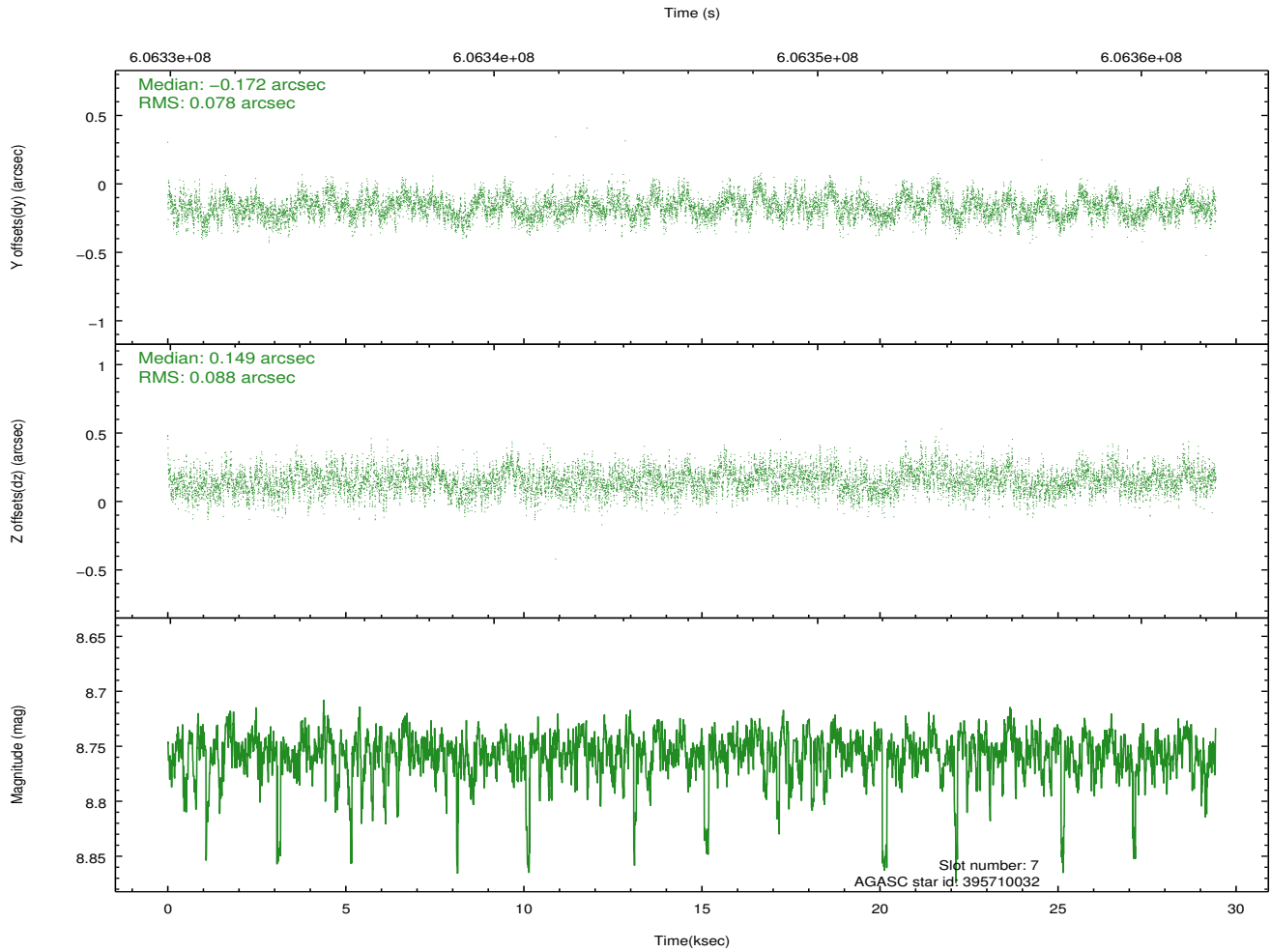
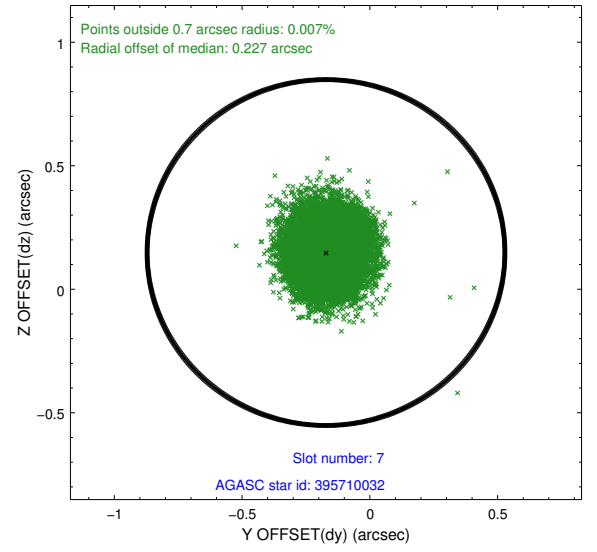
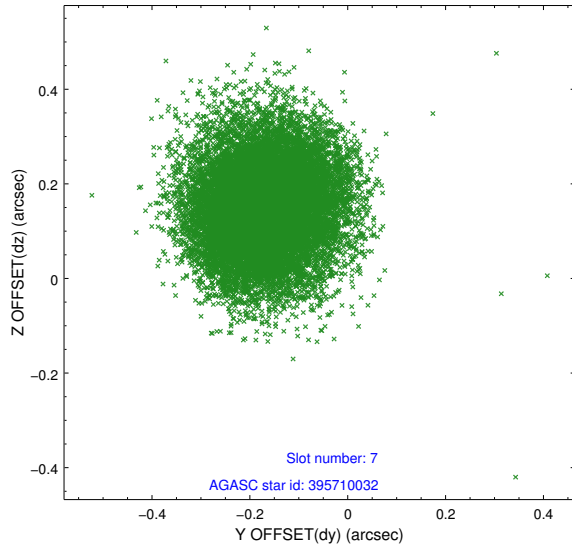
2.4.3 Slot 5



2.4.4 Slot 6

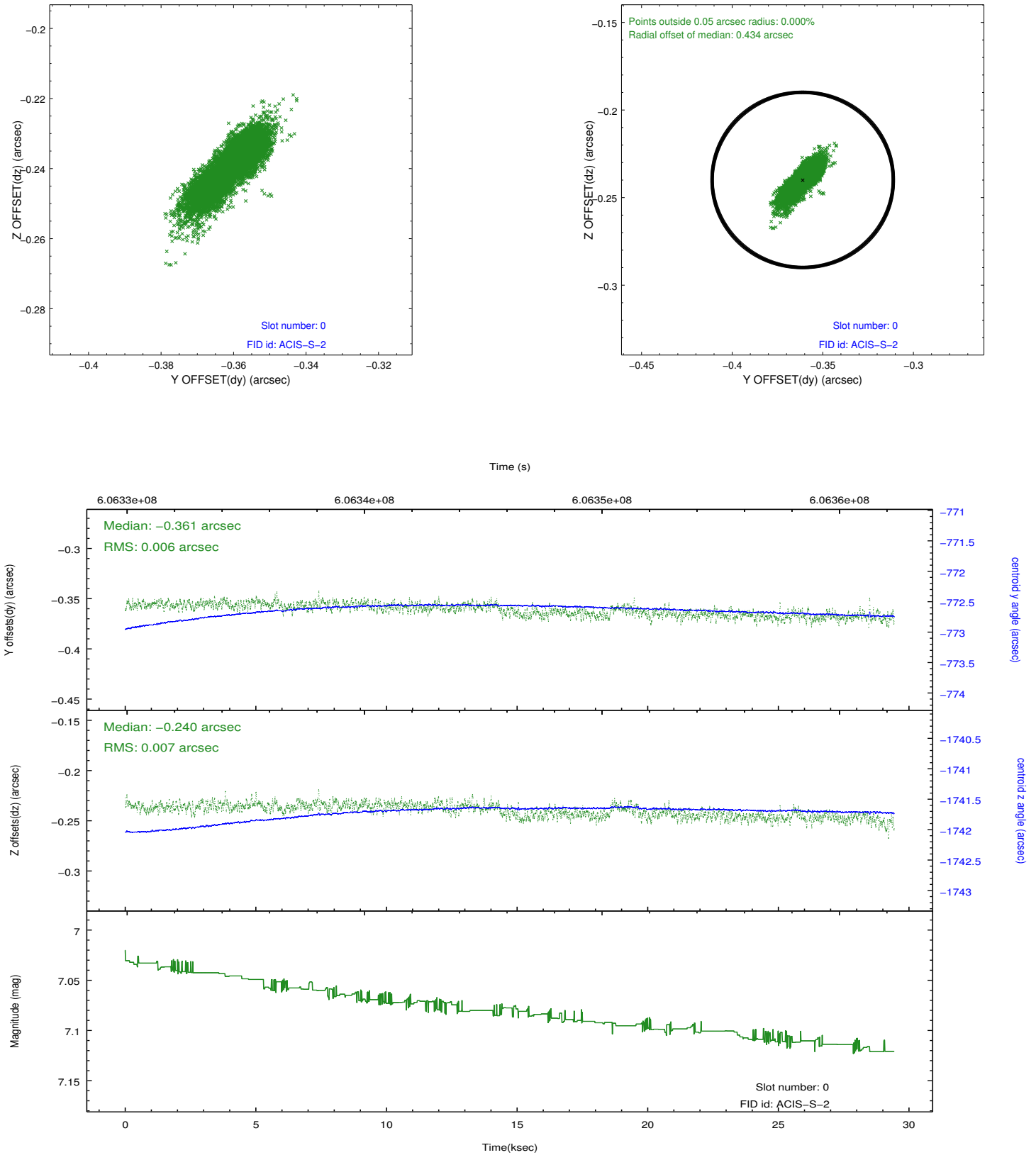


2.4.5 Slot 7

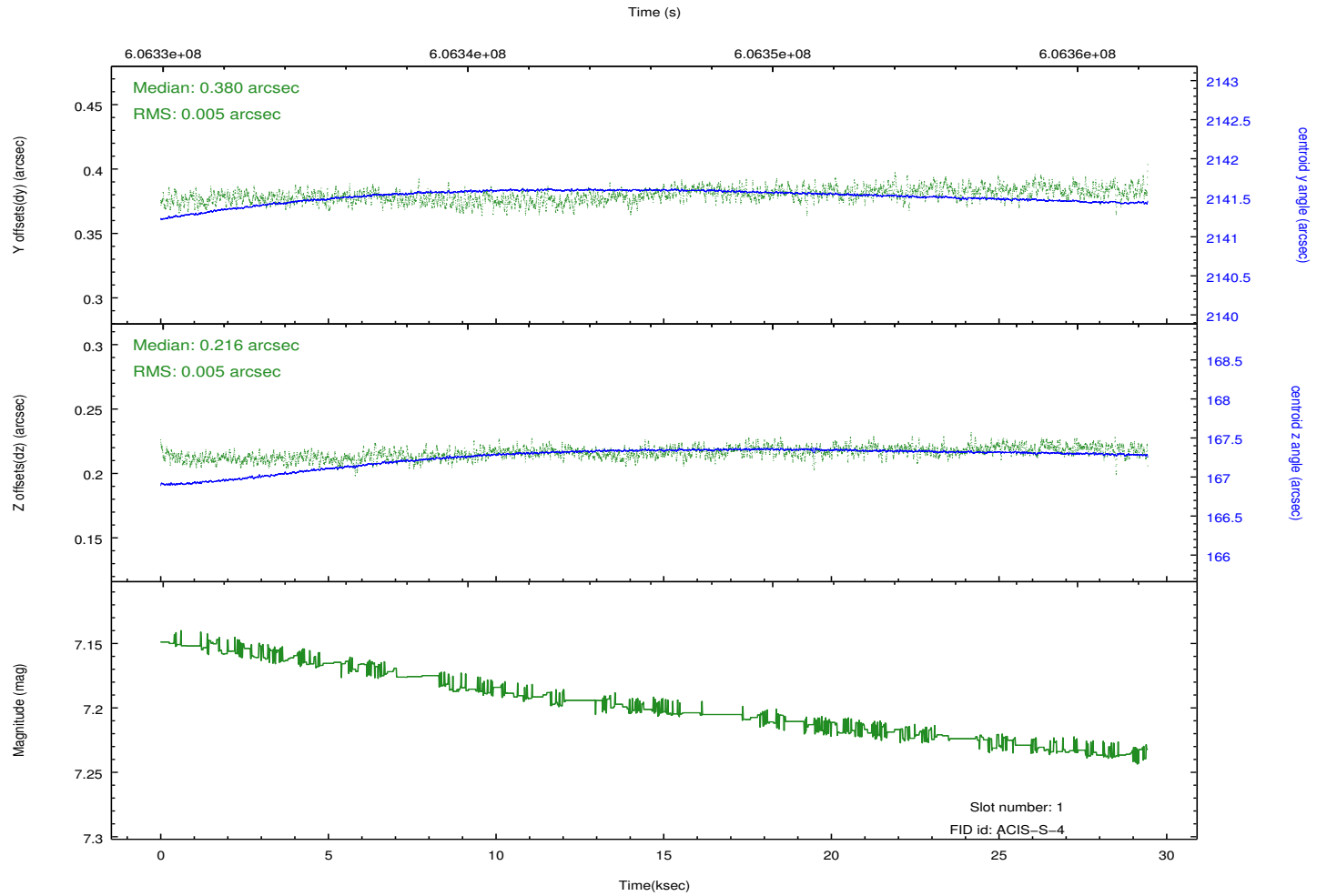
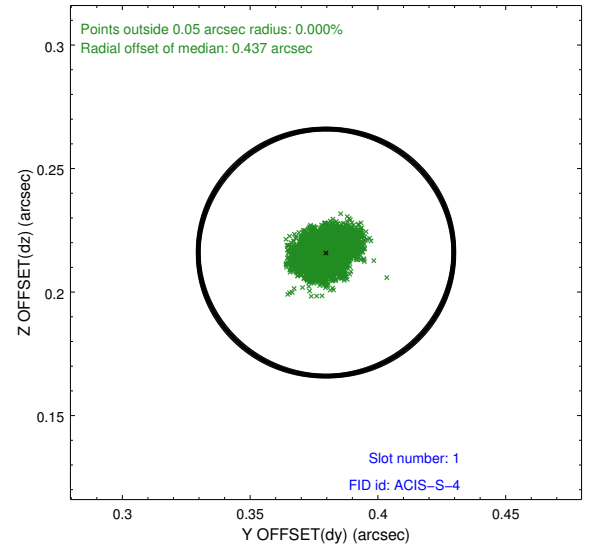
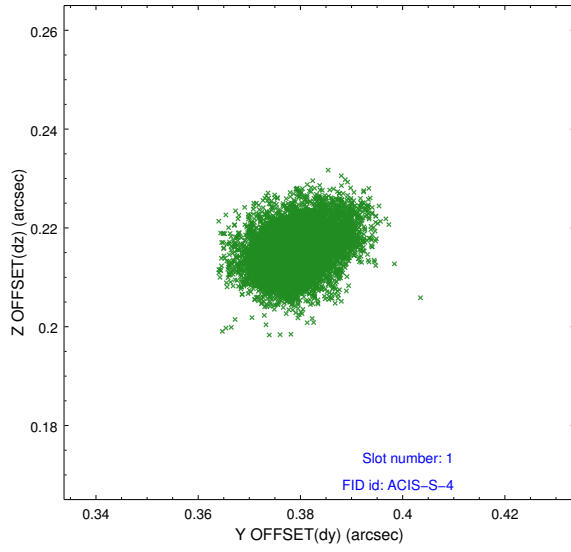


2.5 FID Slots

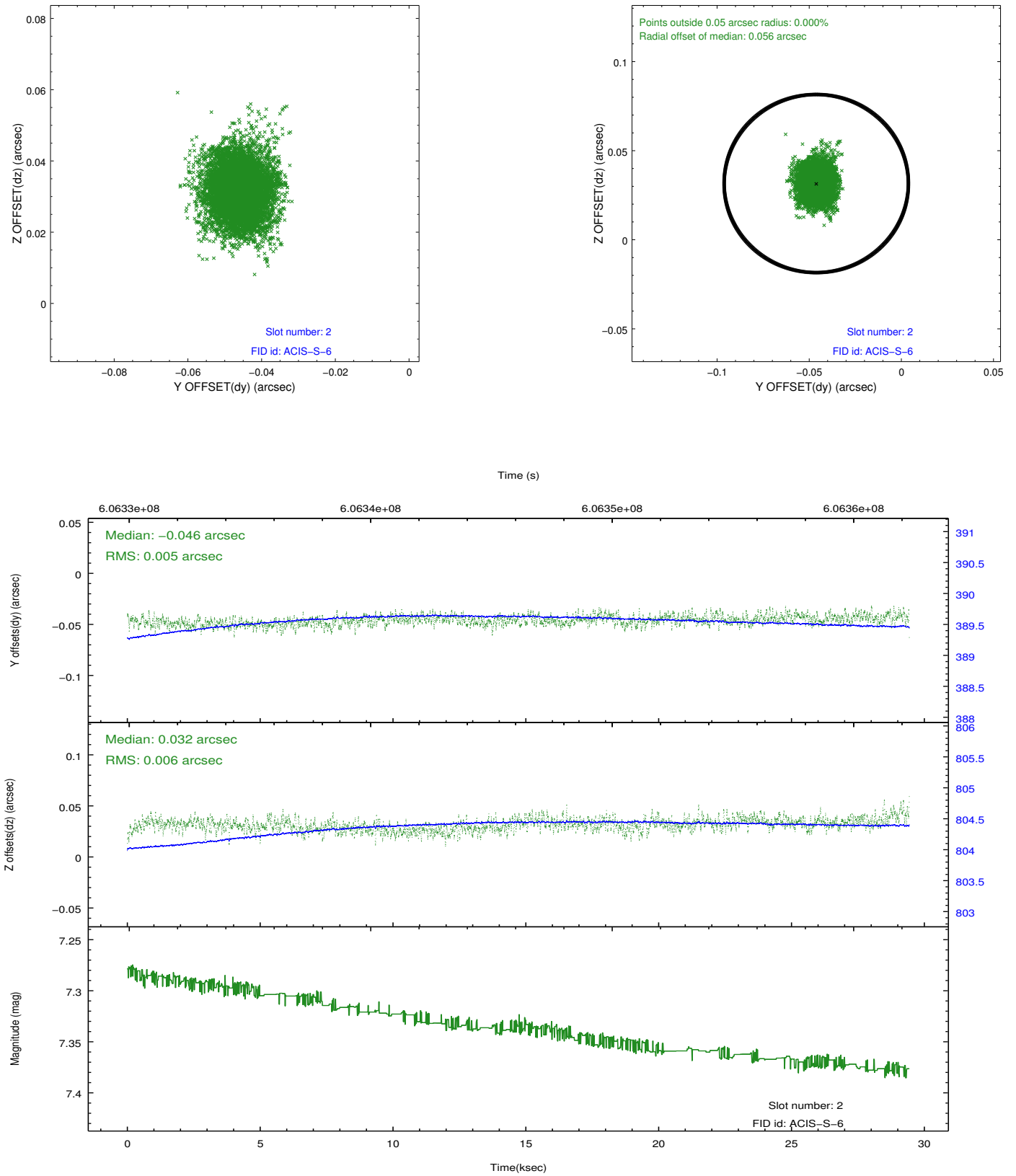
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.047000223517

A.2 Comments