

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 5547 - L2 Version 2
Chandra X-Ray Center

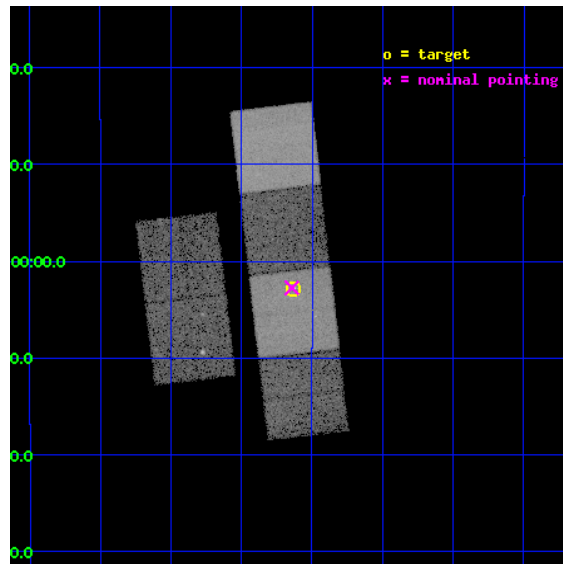
L2 Processing Date : Mar 25 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

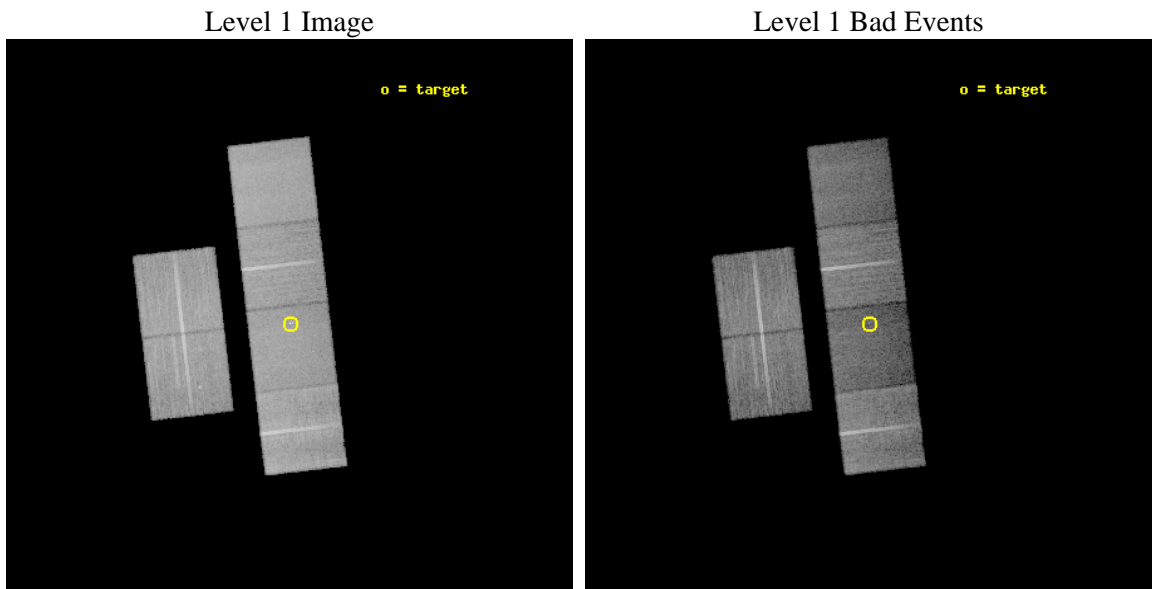
seq_num	500536	Sequence number
obs_id	5547	Observation id
title	A Young Pulsar Candidate on the Galactic Plane	Proposal title
observer	Prof. David Helfand	Principal investigator
object	G21.6-0.0	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.65875	Observer's specified target RA [deg]
dec_targ	-10.046944	Observer's specified target Dec [deg]
ra_nom	277.66061170111	Nominal RA [deg]
dec_nom	-10.045909159229	Nominal Dec [deg]
roll_nom	83.336868803433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19430.399927616	Sum of GTIs [s]
livetime	19184.36050415	Livetime [s]
ontime2	19423.917987049	Sum of GTIs [s]
ontime3	19430.399927616	Sum of GTIs [s]
ontime5	19430.399927616	Sum of GTIs [s]
ontime6	19430.399927616	Sum of GTIs [s]
ontime7	19430.399927616	Sum of GTIs [s]
ontime8	19427.159086853	Sum of GTIs [s]
l2events	184646	Number of level 2 events



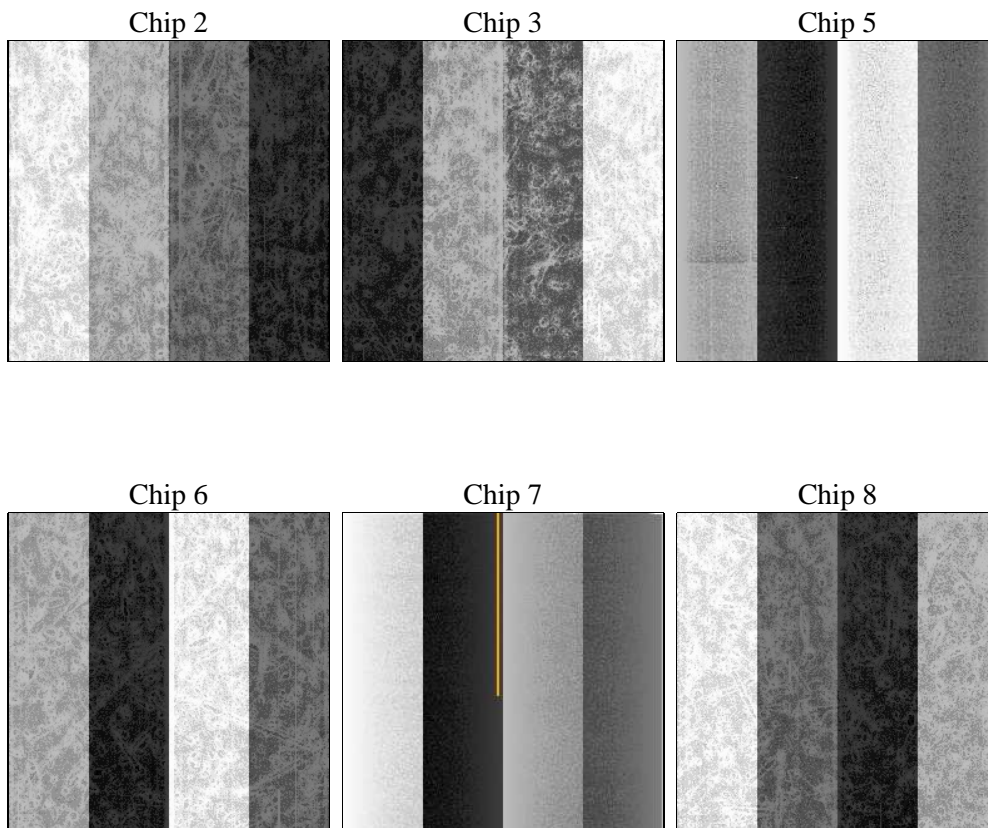
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19430.399927616	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	19423.917987049	Sum of GTIs [s]
date	2012-03-25T17:50:03	Date and time of file creation	ontime3	19430.399927616	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	19430.399927616	Sum of GTIs [s]
			ontime6	19430.399927616	Sum of GTIs [s]
			ontime7	19430.399927616	Sum of GTIs [s]
			ontime8	19427.159086853	Sum of GTIs [s]
			l1events	871002	Number of level 1 events

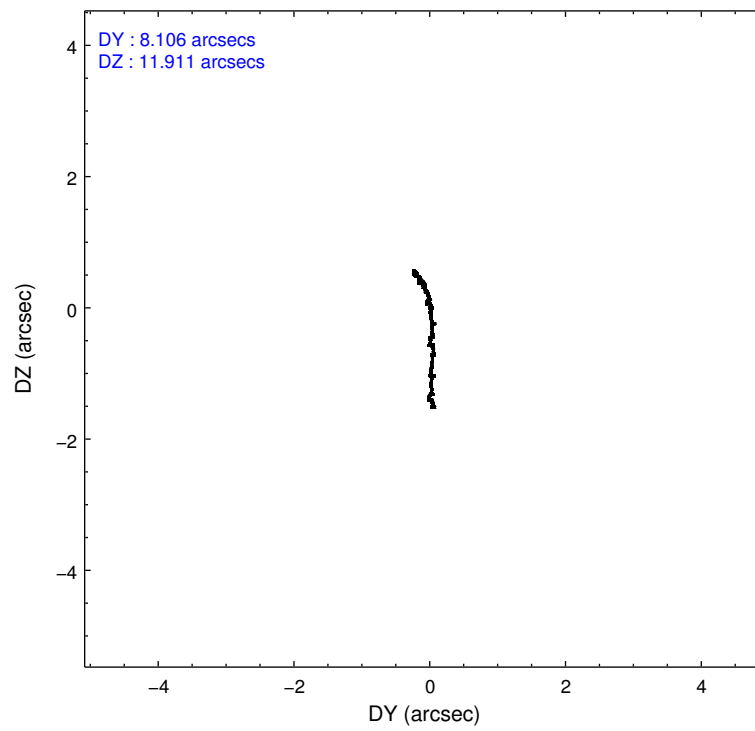
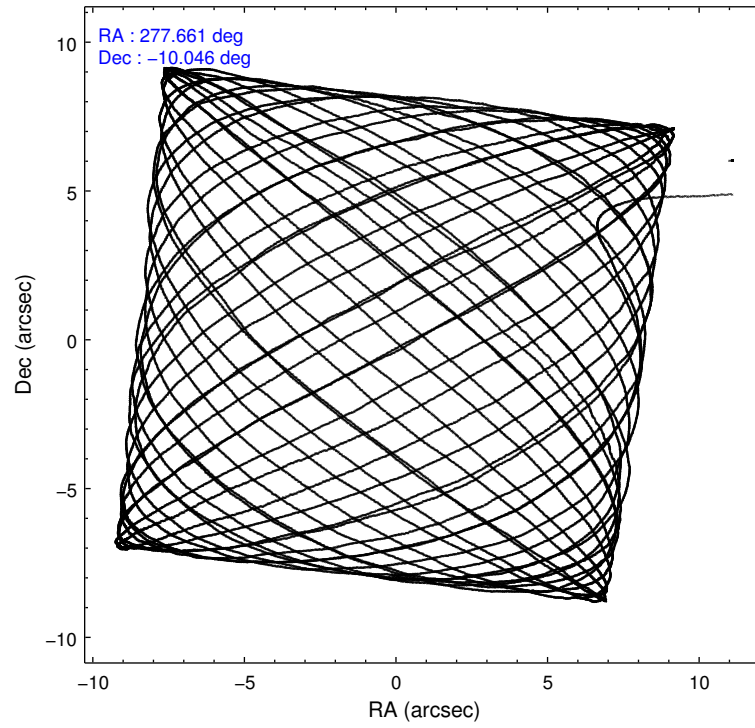
2.1.4 Events

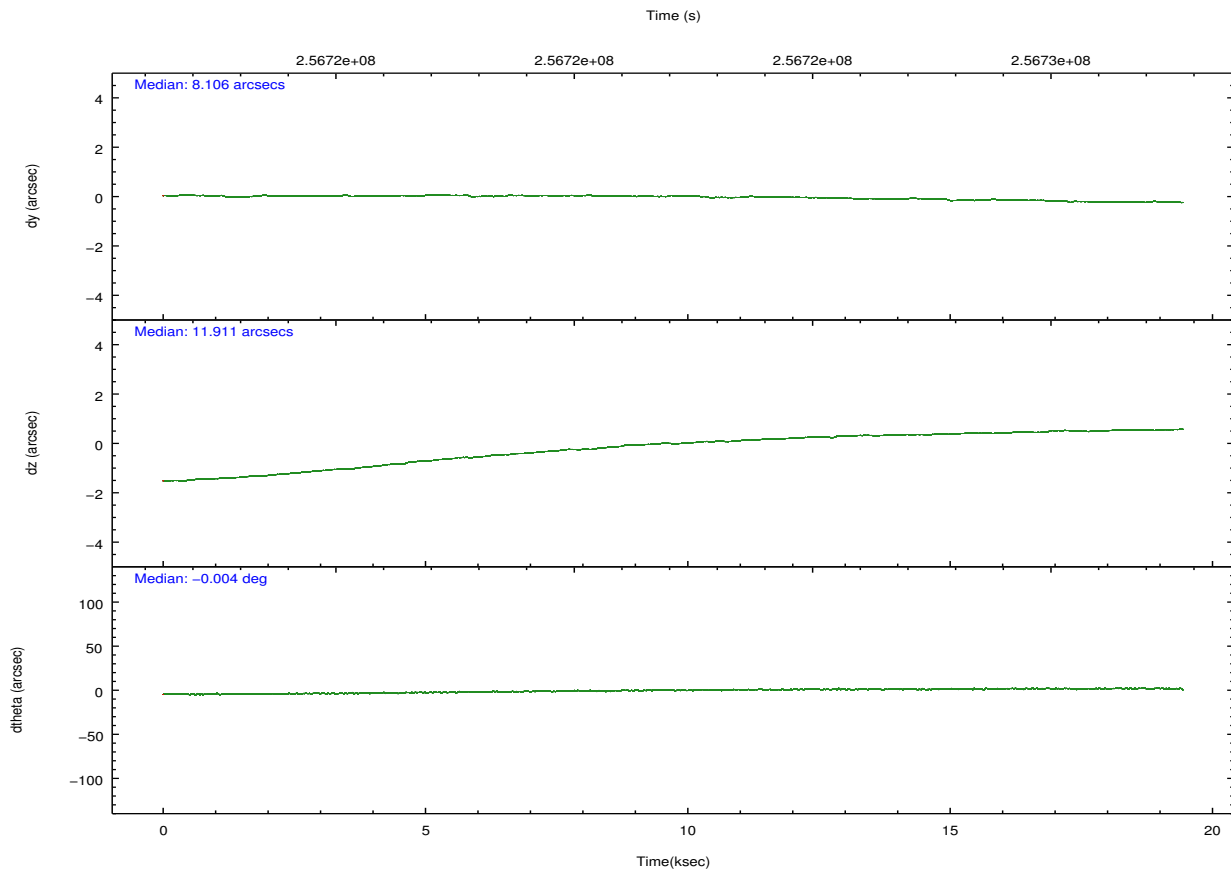
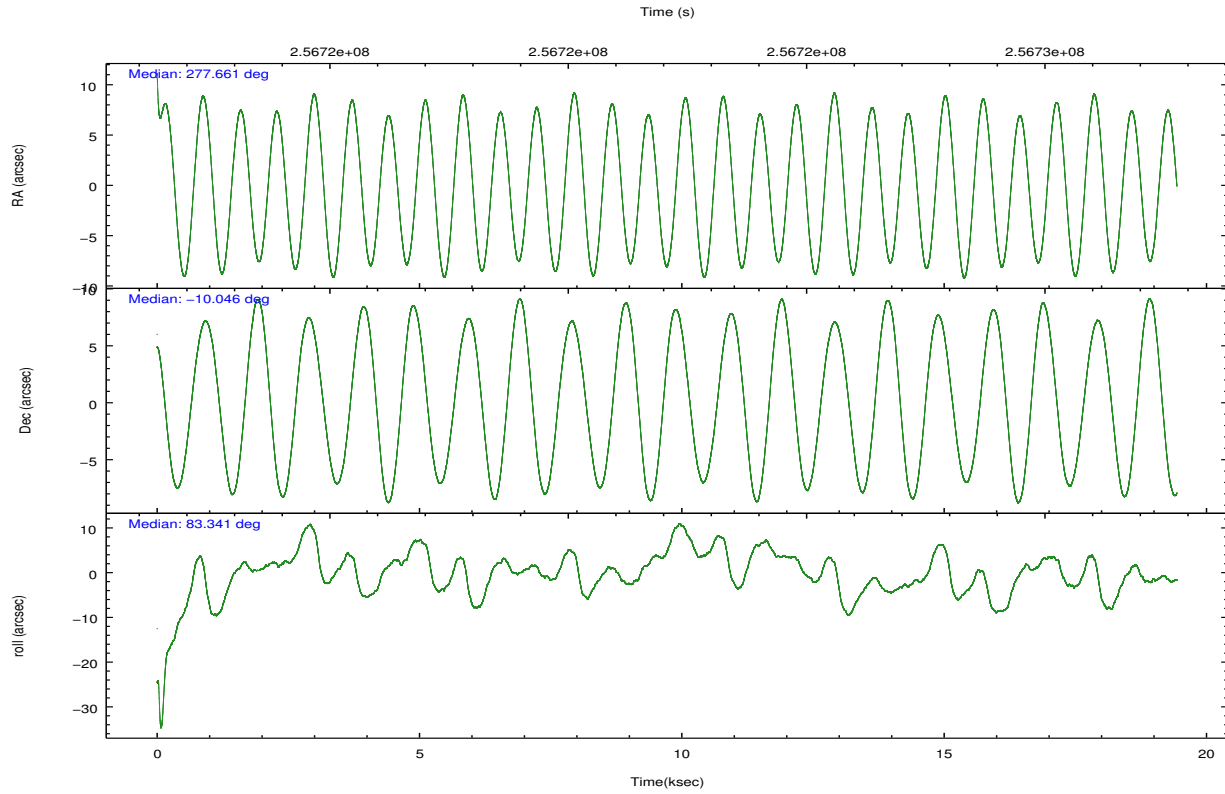
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	151169	134749	158695	135313	129316	161760	grade 0 events	5302	5585	4799	5719	5705	7246
rejected events	138116	121356	81143	120899	68668	129819		3%	4%	3%	4%	4%	4%
rejected %	91%	90%	51%	89%	53%	80%	grade 1 events	69	79	71	75	111	96
								0%	0%	0%	0%	0%	0%
							grade 2 events	3014	2718	23231	3014	12032	7946
								1%	2%	14%	2%	9%	4%
							grade 3 events	1300	1458	3178	1567	5636	3762
								0%	1%	2%	1%	4%	2%
							grade 4 events	1353	1492	3063	1519	5583	3460
								0%	1%	1%	1%	4%	2%
							grade 5 events	3810	4581	13136	4726	14044	7049
								2%	3%	8%	3%	10%	4%
							grade 6 events	2284	2392	44562	2844	32802	10104
								1%	1%	28%	2%	25%	6%
							grade 7 events	134037	116444	66655	115849	53403	122097
								88%	86%	42%	85%	41%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	277.671879	277.6606117011052	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.070755	-10.04590915922933	Alternating exposures requested	N	N
[deg] Pointing Roll	83.182207	83.33686880343306	[s] Primary exposure time	0.000000	3.2
[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)	256712489.184000	256711273.00058			
Observation start date	2006-02-19T05:00:24	2006-02-19T04:41:13			
[s] Observation end time (MET)	256731789.184000	256733153.6766			
Observation end date	2006-02-19T10:22:04	2006-02-19T10:45:53			
Read mode	TIMED	TIMED			

2.3 Aspect



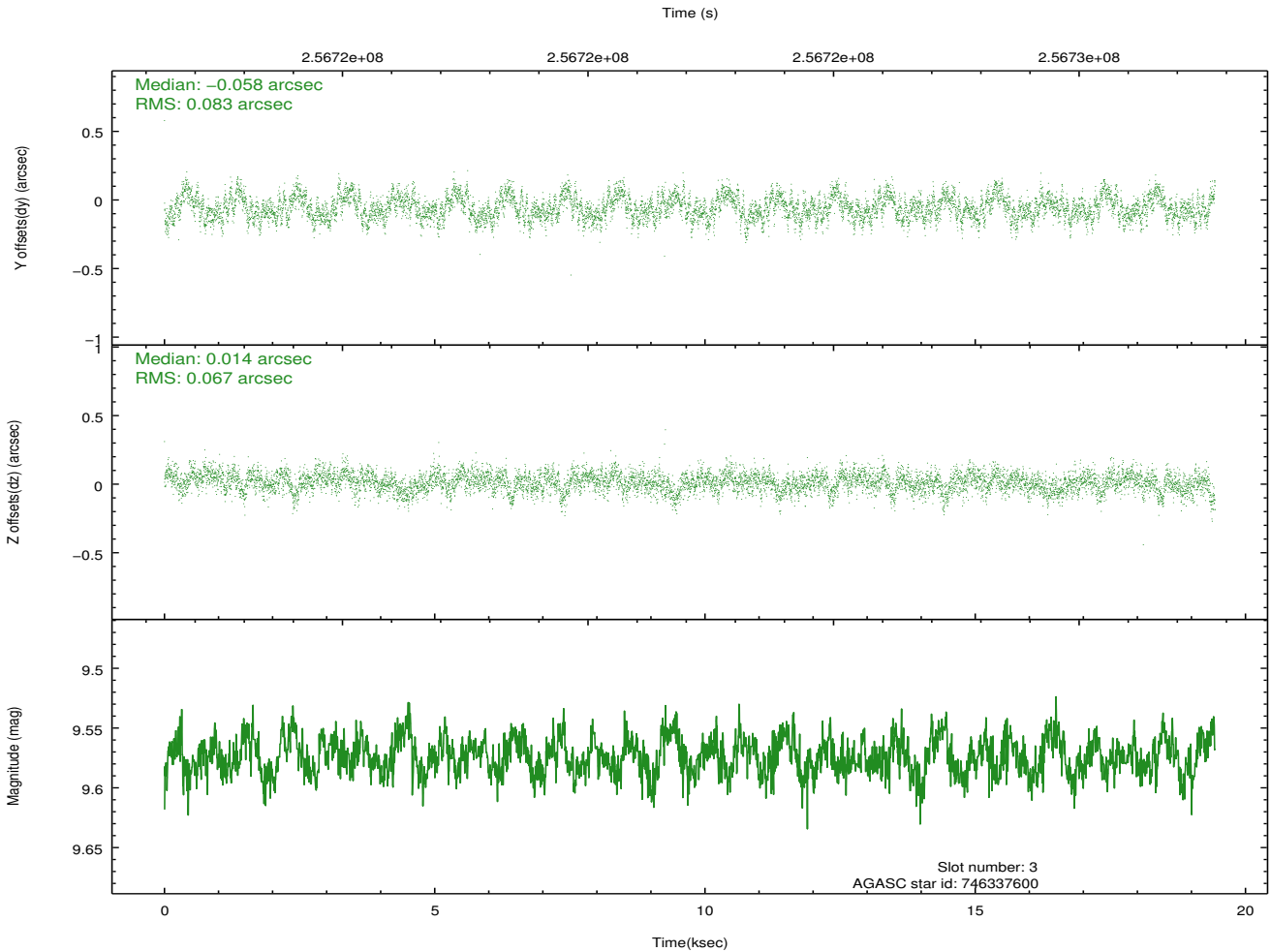
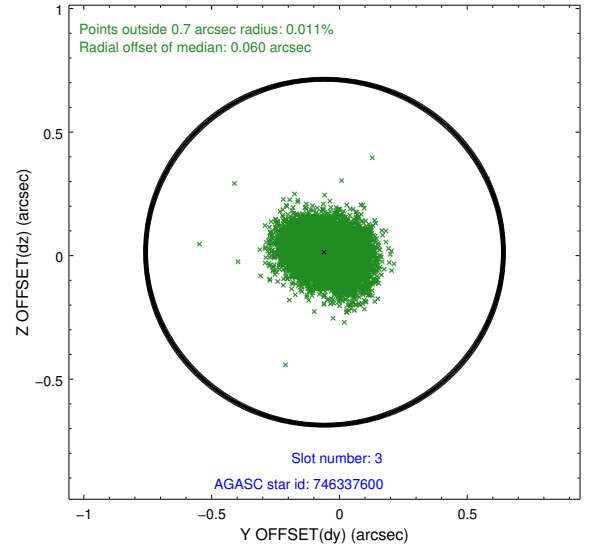
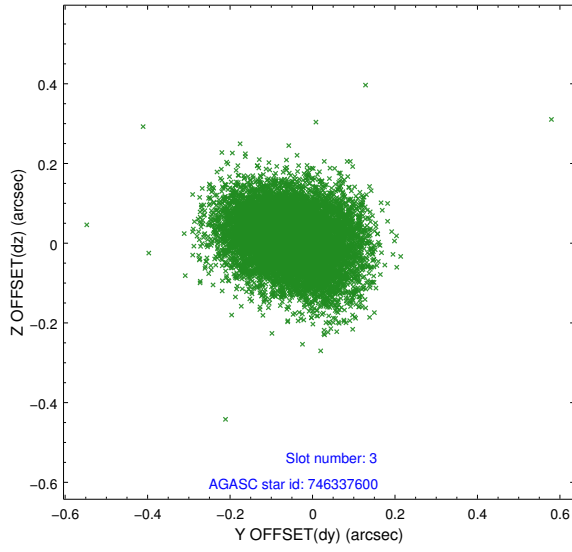


Slot Statistics

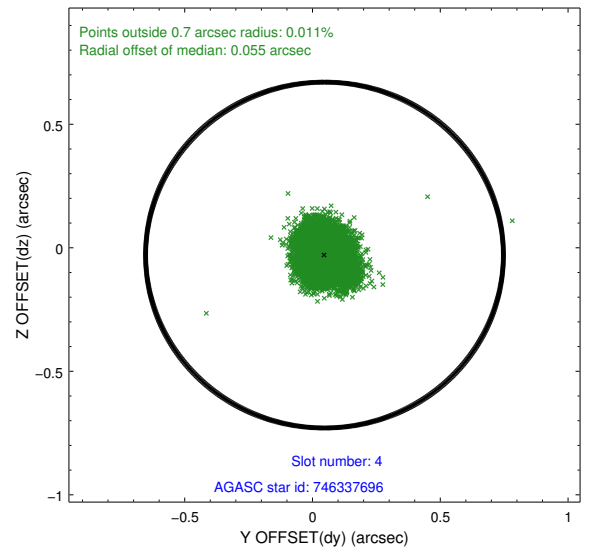
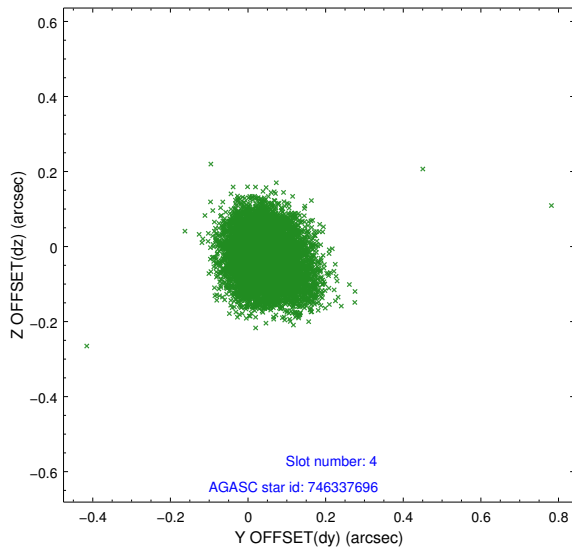
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4741	-0.021	-0.035	0.017	0.030	0.000000	0.000000	-760.85	-1733.03
1	FID	ACIS-S-4	7.20	4740	0.117	0.020	0.019	0.028	0.000000	0.000000	2152.46	175.33
2	FID	ACIS-S-5	7.23	4740	-0.124	0.025	0.015	0.023	0.000000	0.000000	-1813.56	169.19
3	GUIDE	746337600	9.57	9471	-0.058	0.014	0.115	0.184	277.210435	-9.639804	1345.05	1810.40
4	GUIDE	746337696	8.65	9471	0.047	-0.029	0.082	0.135	277.198817	-10.226535	-756.84	1597.50
5	GUIDE	746338440	9.67	9464	-0.410	-0.027	0.151	0.231	277.545963	-9.496982	1997.52	689.46
6	GUIDE	746338464	9.42	9475	0.149	0.014	0.110	0.171	277.427613	-10.292647	-895.65	764.66
7	GUIDE	746330168	9.96	9444	0.281	0.025	0.184	0.272	277.465724	-10.675287	-2247.38	466.35

2.4 Star Slots

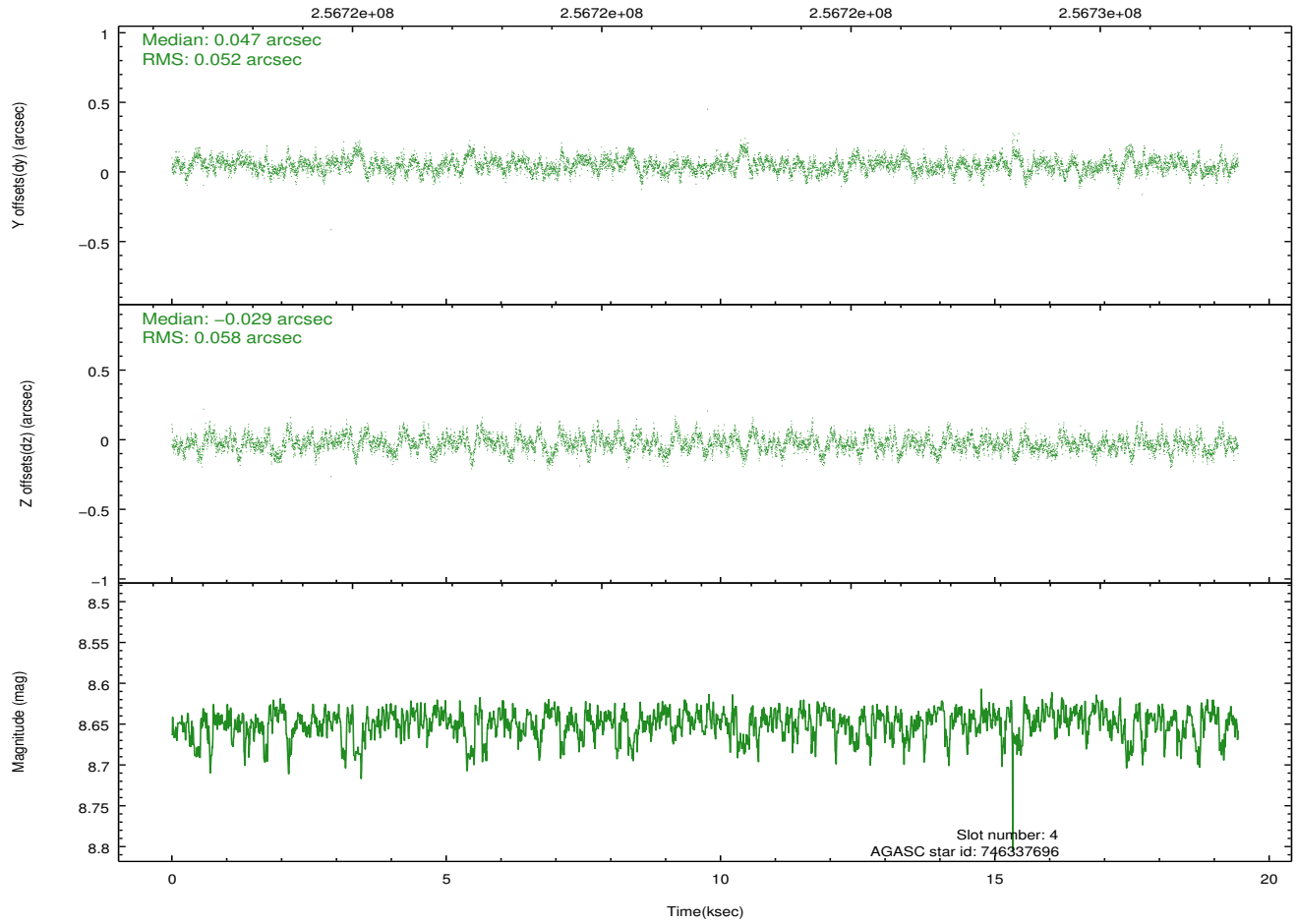
2.4.1 Slot 3



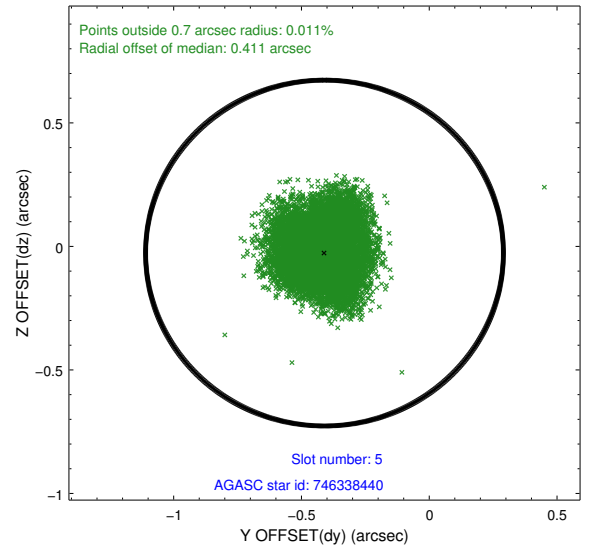
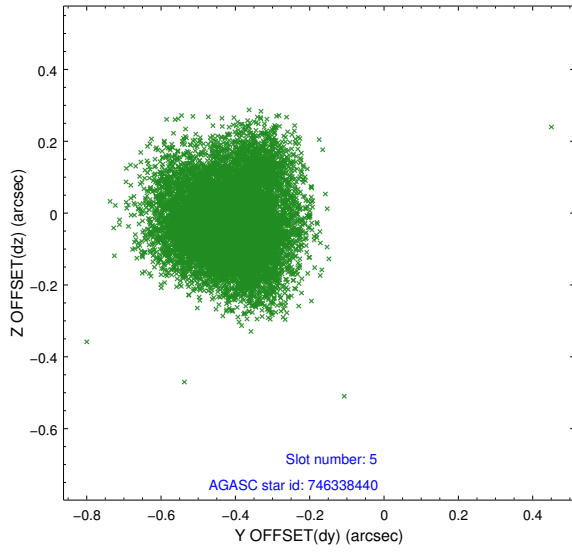
2.4.2 Slot 4



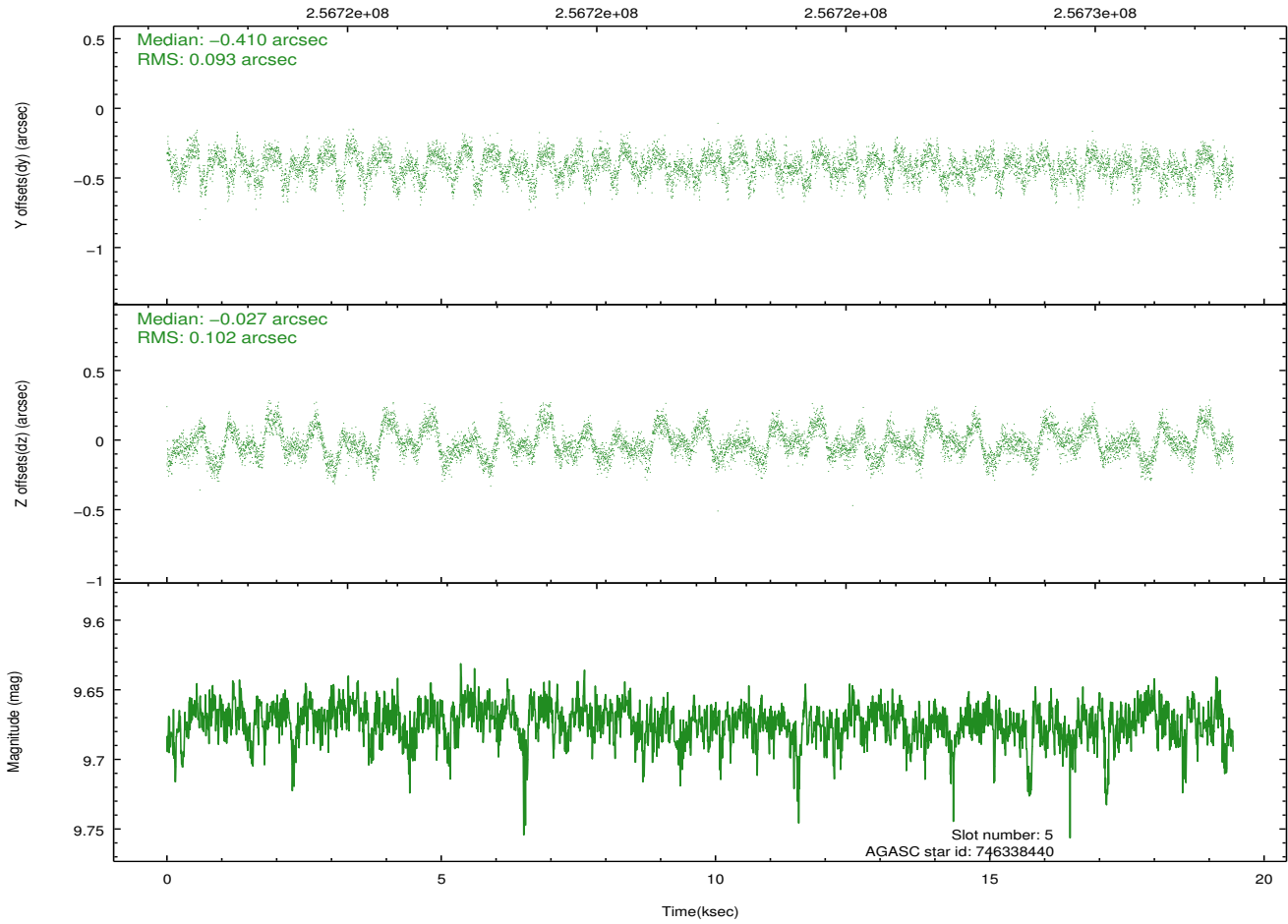
Time (s)



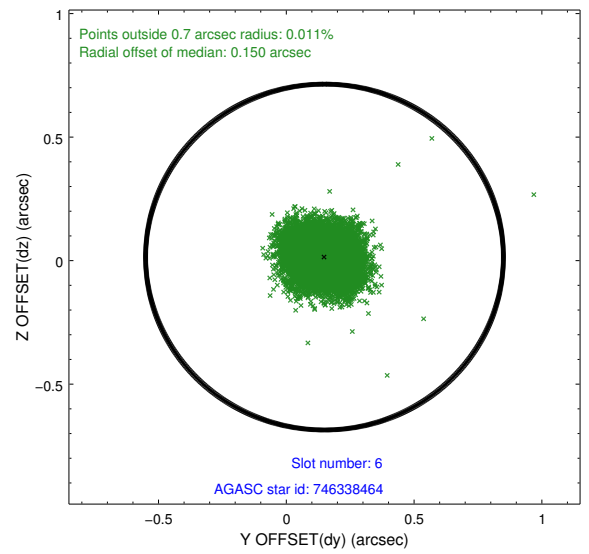
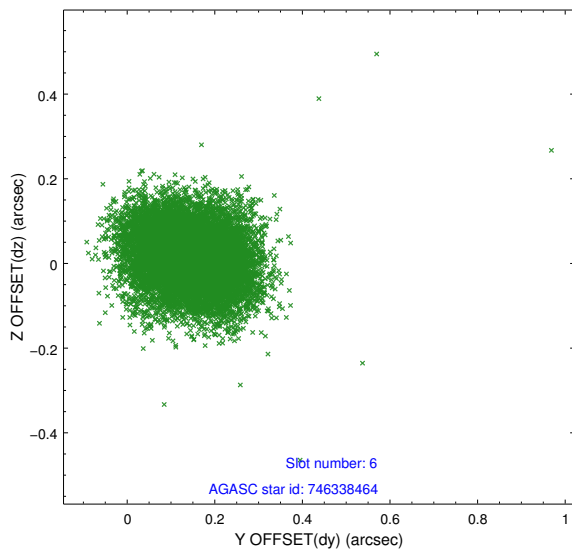
2.4.3 Slot 5



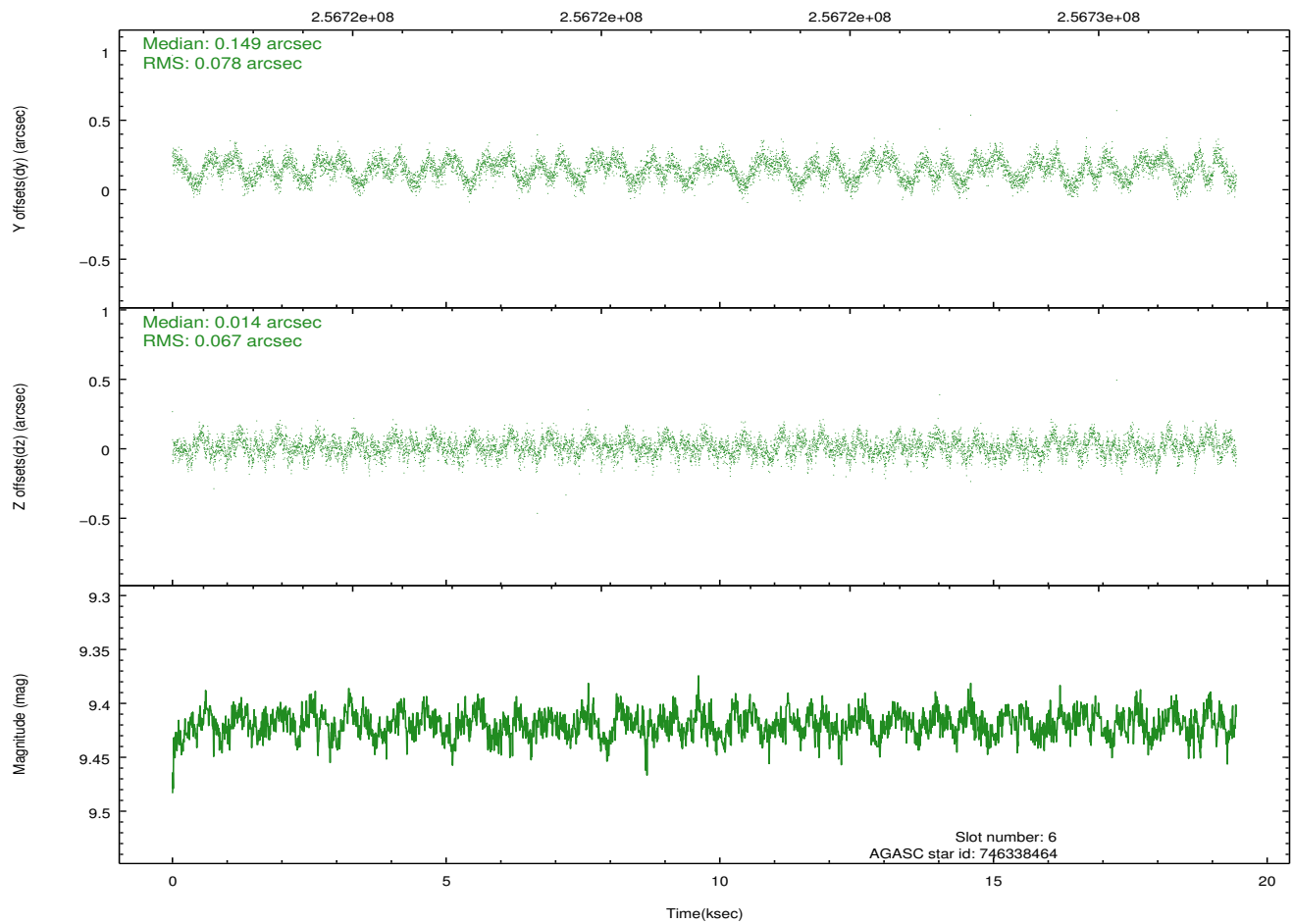
Time (s)



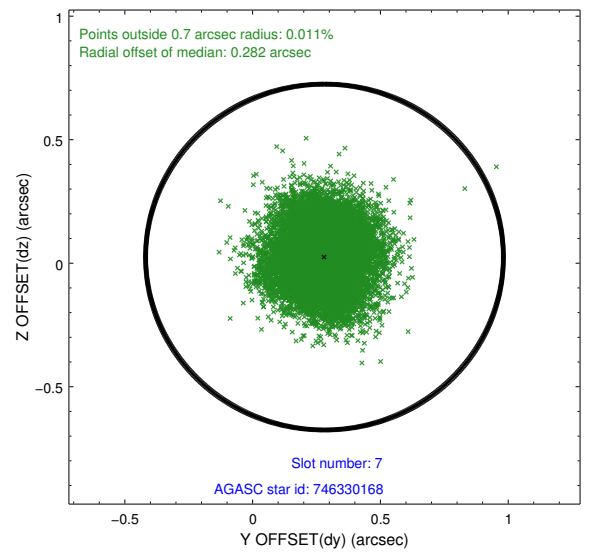
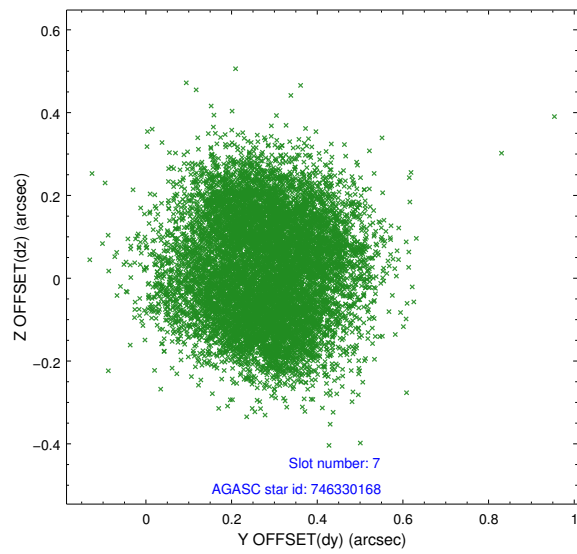
2.4.4 Slot 6



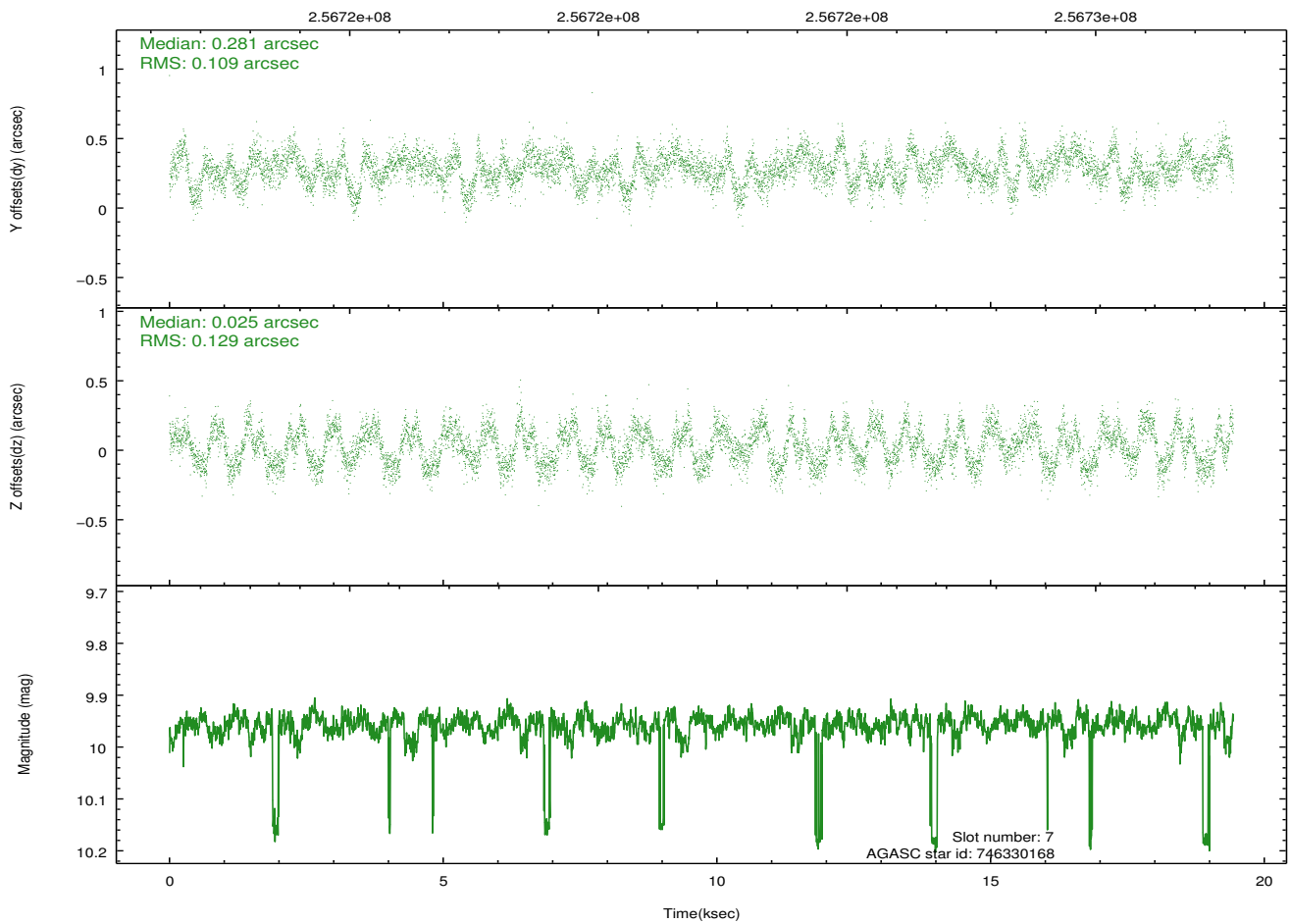
Time (s)



2.4.5 Slot 7

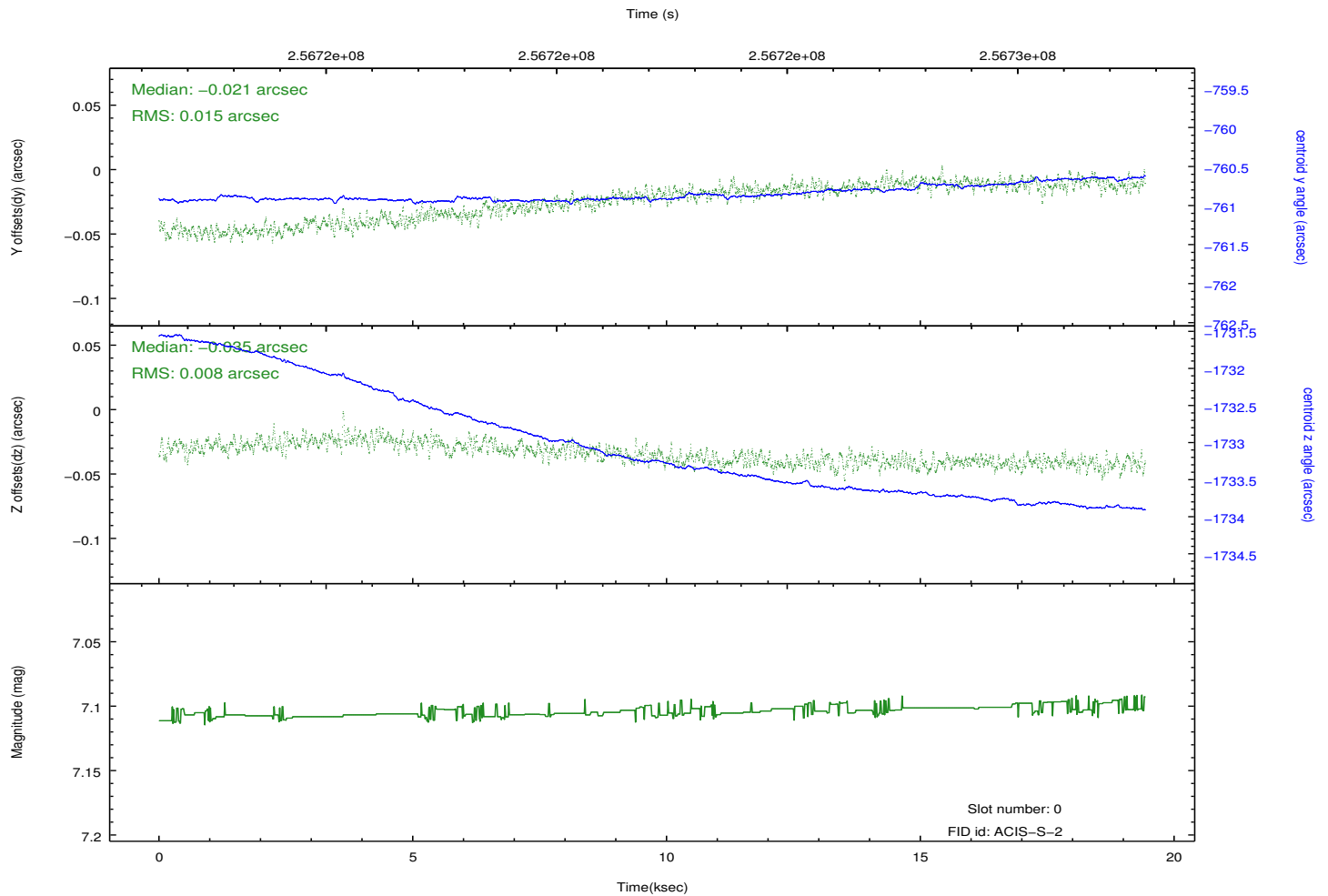
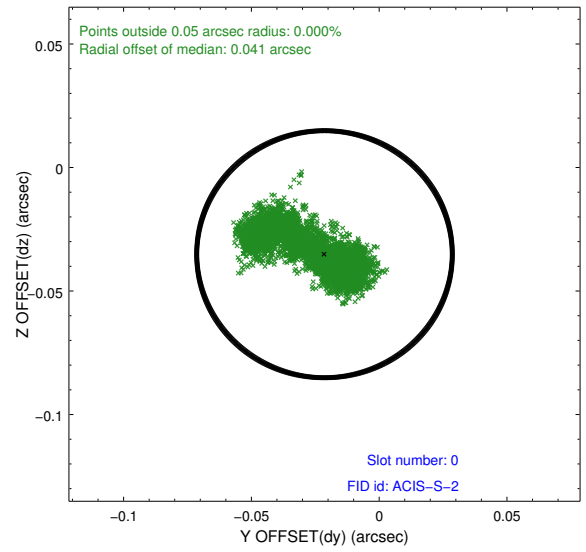
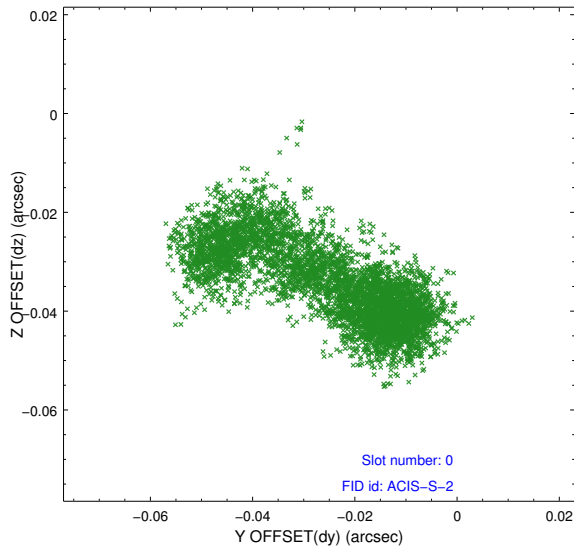


Time (s)

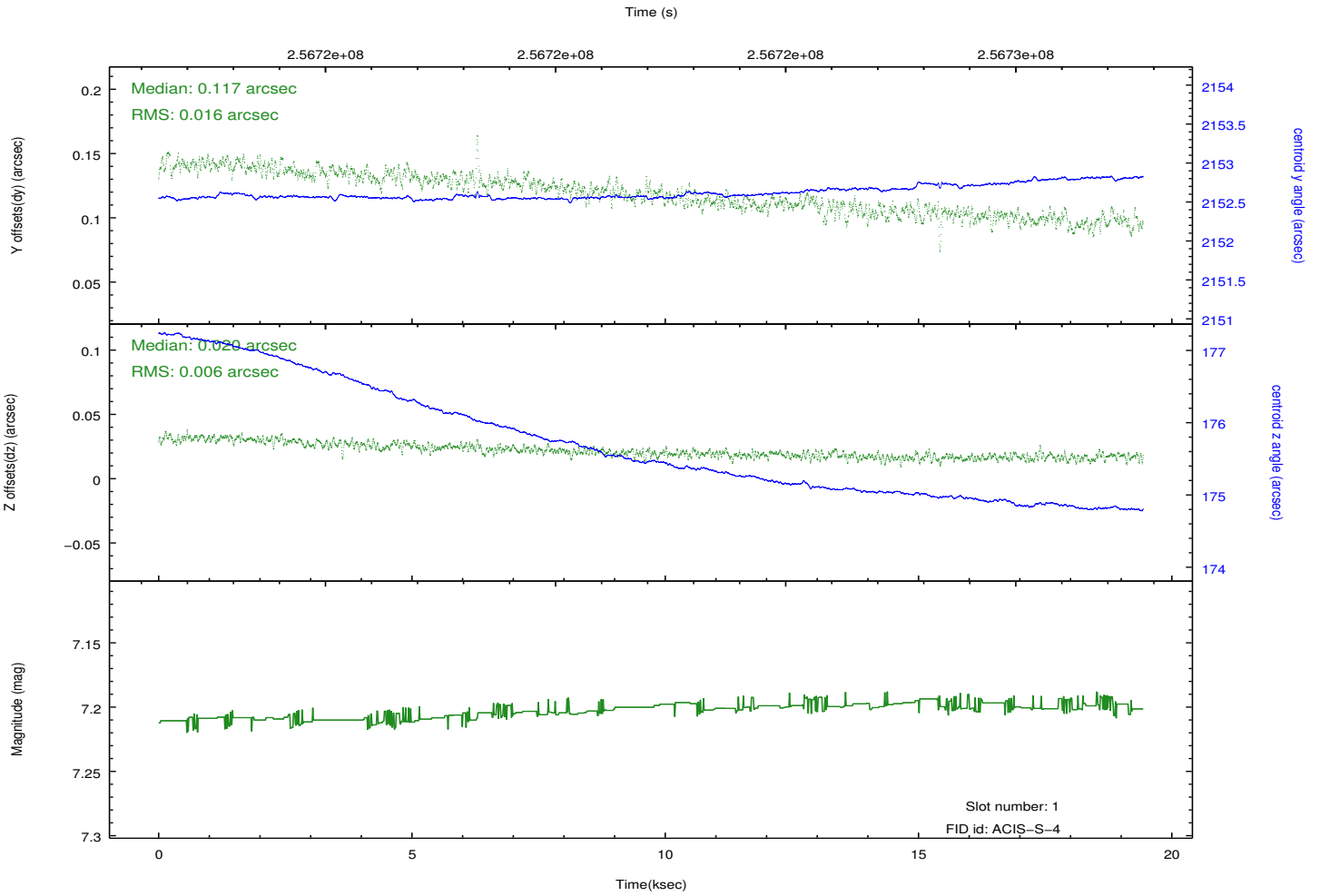
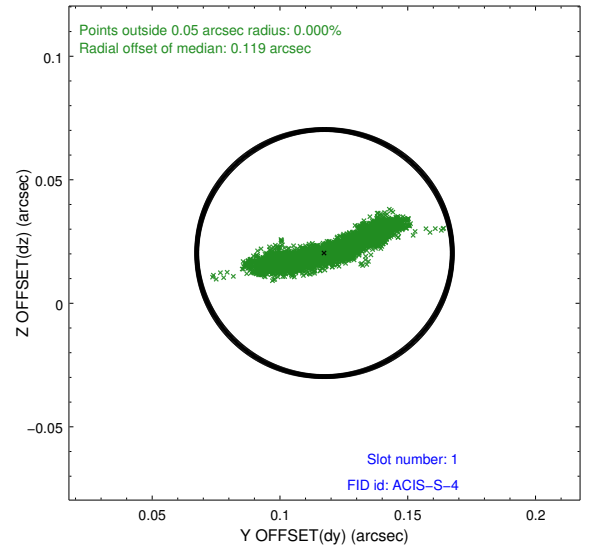
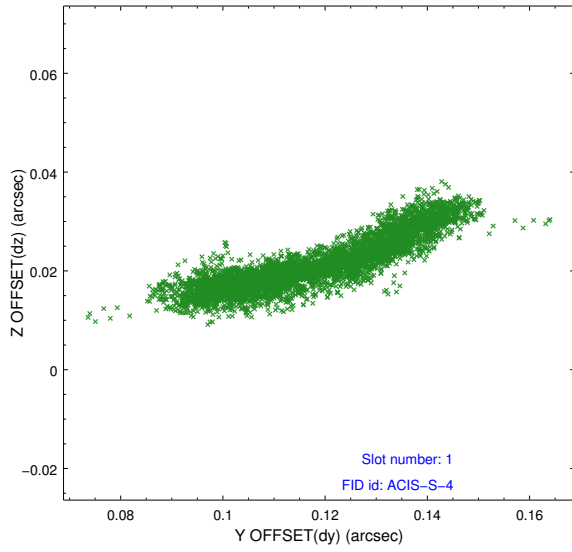


2.5 FID Slots

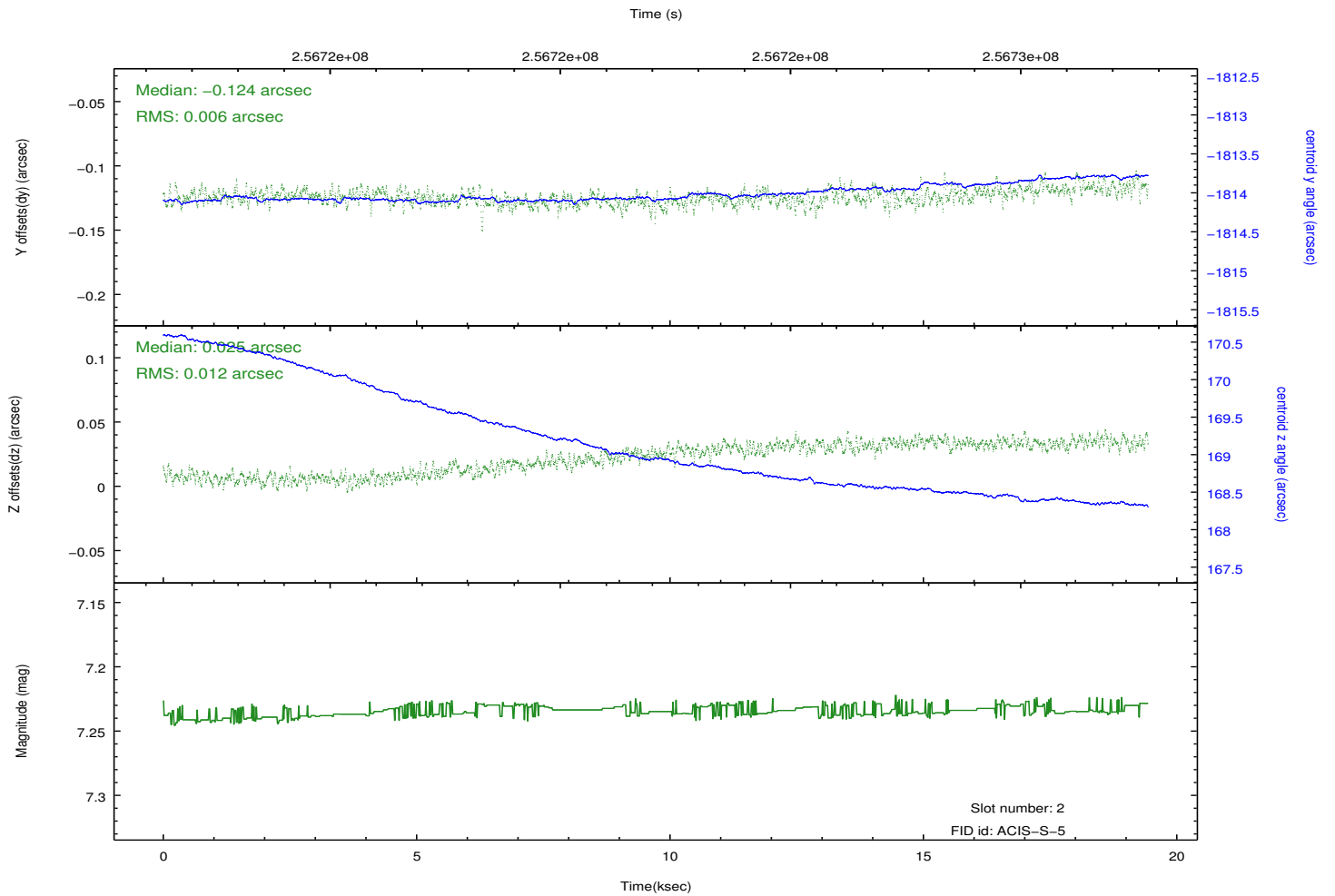
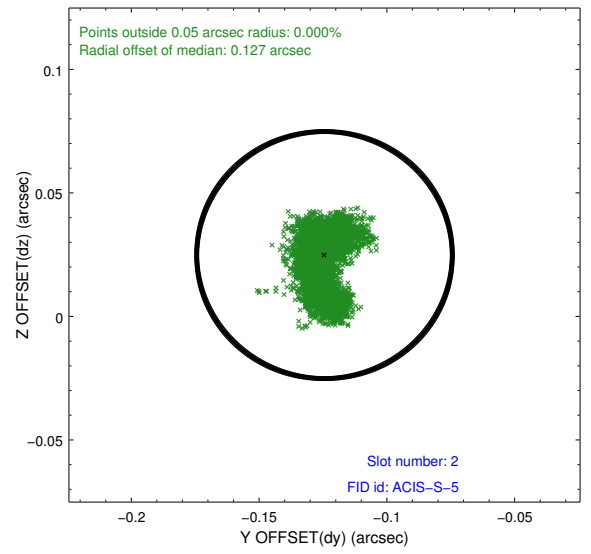
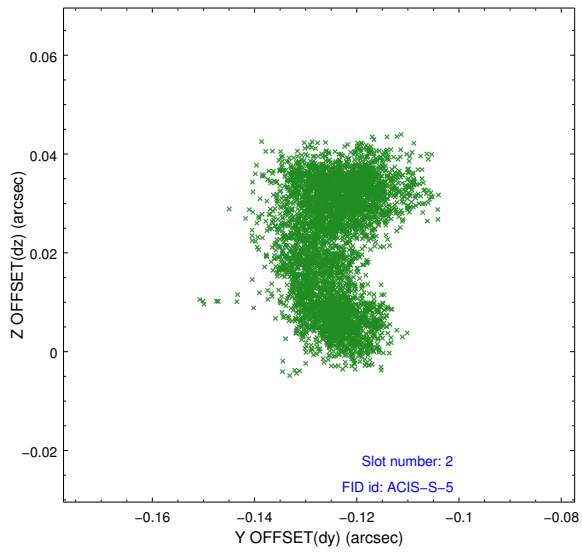
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.4303999

A.2 Comments