

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12081 - L2 Version 2
Chandra X-Ray Center

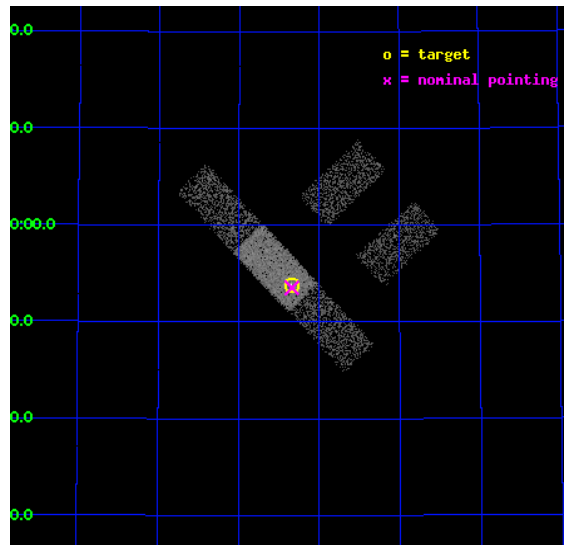
L2 Processing Date : Jun 23 2012

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1 Front

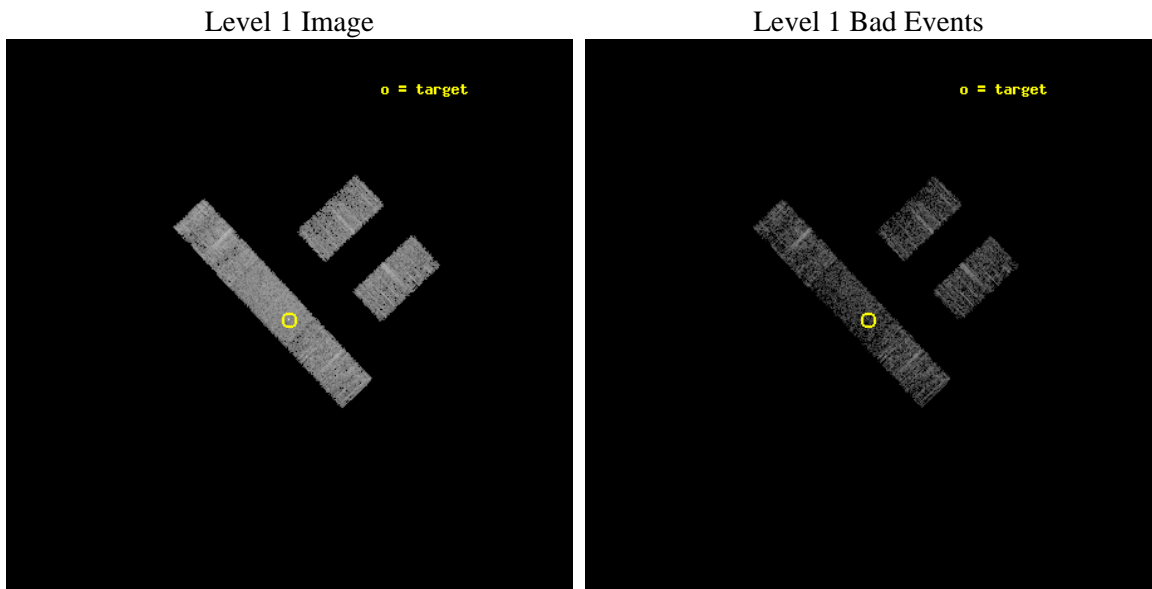
seq_num	702311	Sequence number
obs_id	12081	Observation id
title	Gravitationally lensed quasar Q0957+561AB in outburst	Proposal tit
observer	Dr Luis Goicoechea	Principal investigator
object	Q0957+561	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.336667	Observer's specified target RA [deg]
dec_targ	55.897056	Observer's specified target Dec [deg]
ra_nom	150.33497517751	Nominal RA [deg]
dec_nom	55.892320744542	Nominal Dec [deg]
roll_nom	226.65796863846	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3170.4999778271	Sum of GTIs [s]
livetime	3095.7645788184	Livetime [s]
ontime2	3170.4999778271	Sum of GTIs [s]
ontime3	3170.4999778271	Sum of GTIs [s]
ontime6	3170.4999778271	Sum of GTIs [s]
ontime7	3170.4999778271	Sum of GTIs [s]
ontime8	3170.4999778271	Sum of GTIs [s]
l2events	12679	Number of level 2 events



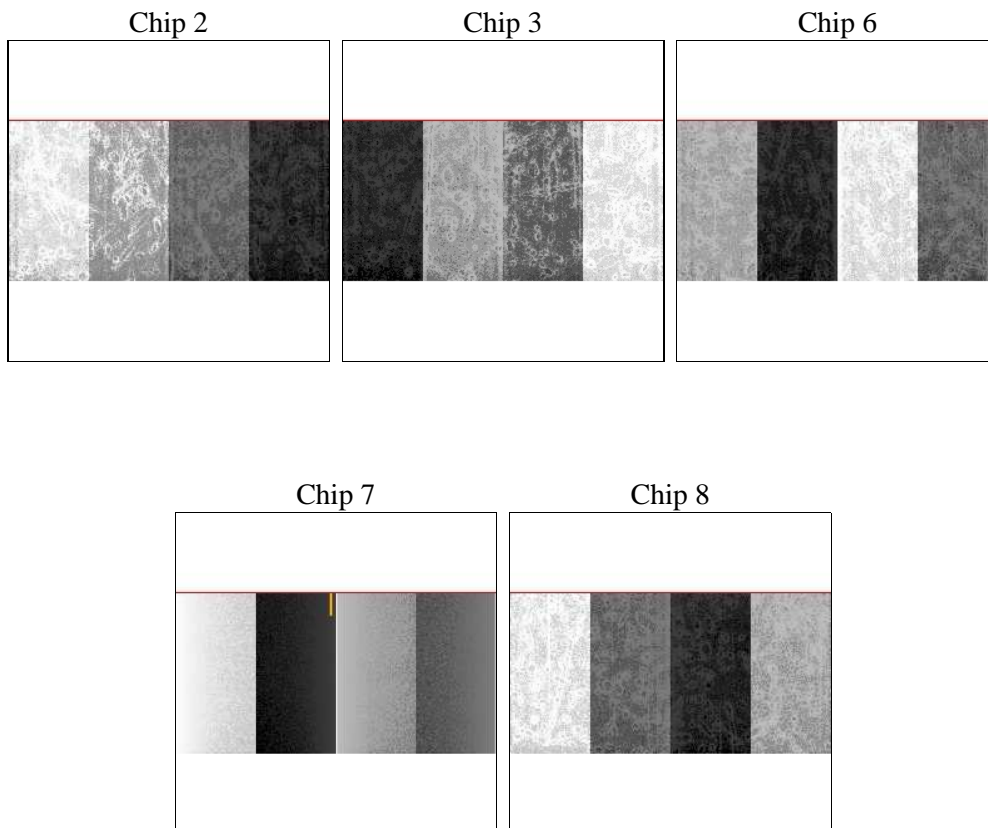
2 OBI

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	8.4.5	Processing system revision	ontime	3170.4999778271	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	3170.4999778271	Sum of GTIs [s]
date	2012-06-23T17:58:02	Date and time of file creation	ontime3	3170.4999778271	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3170.4999778271	Sum of GTIs [s]
			ontime7	3170.4999778271	Sum of GTIs [s]
			ontime8	3170.4999778271	Sum of GTIs [s]
			l1events	100859	Number of level 1 events

2.1.4 Events

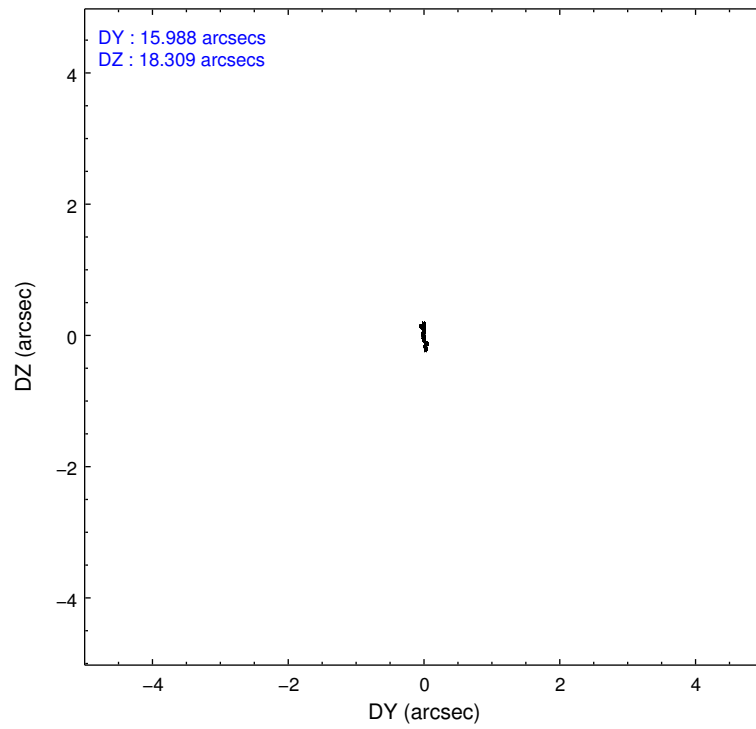
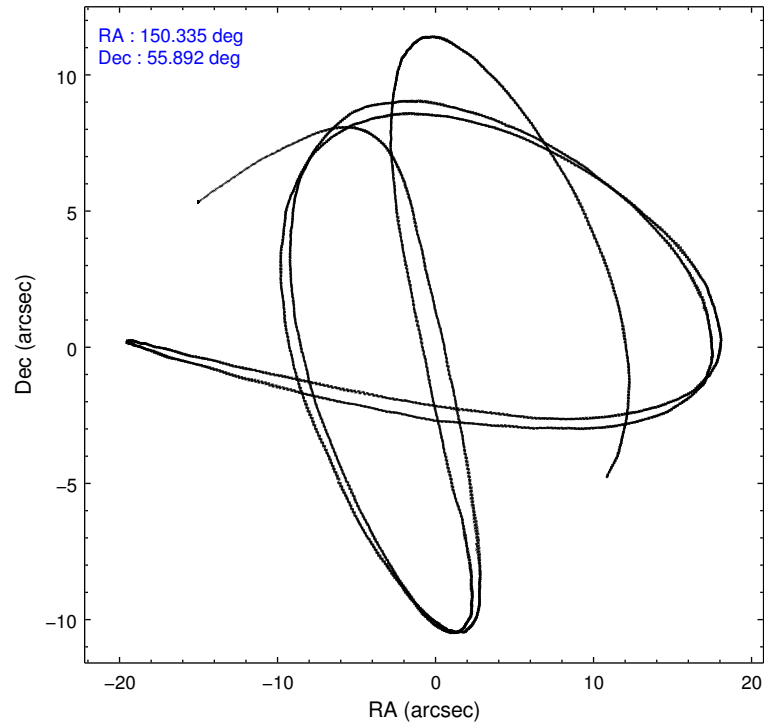
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	18565	16855	18924	21955	24560
rejected events	17189	15505	17379	14115	19640
rejected %	92%	91%	91%	64%	79%

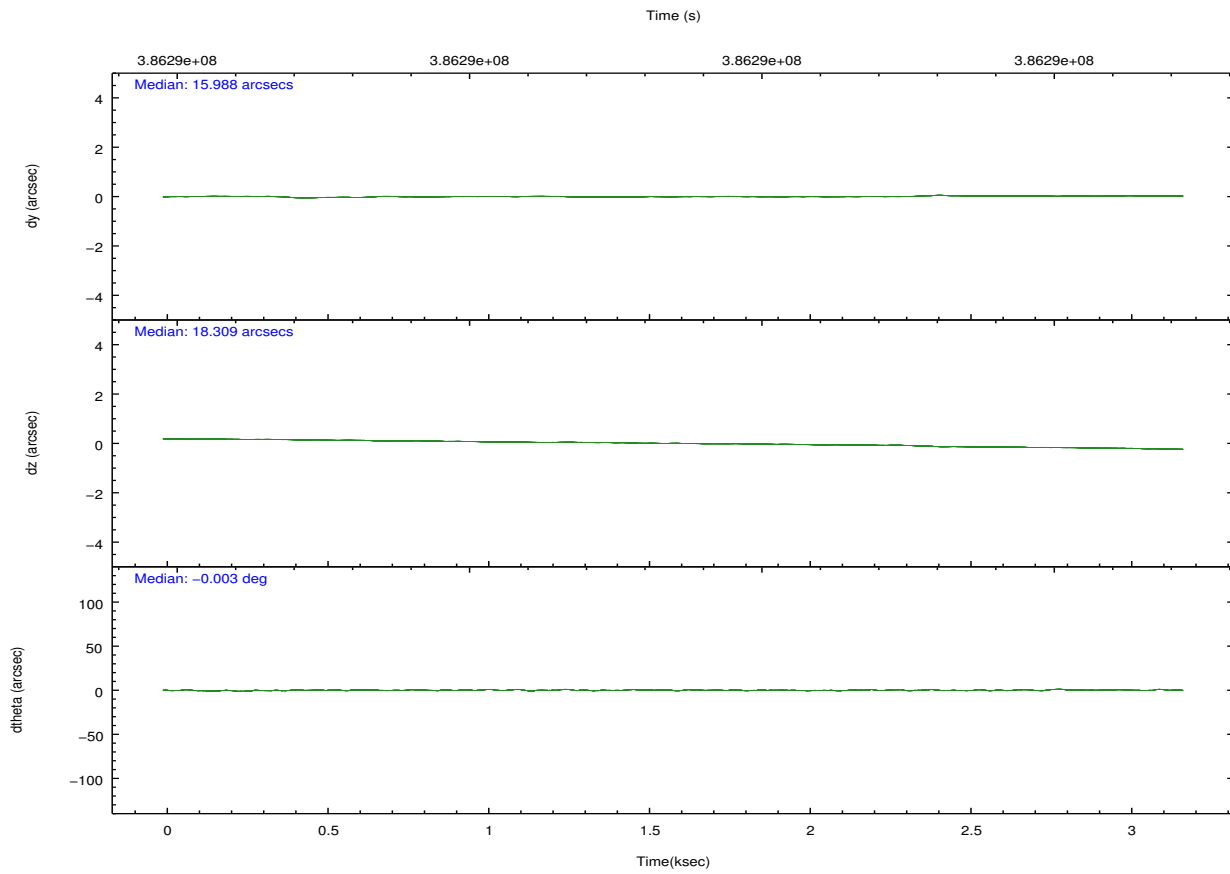
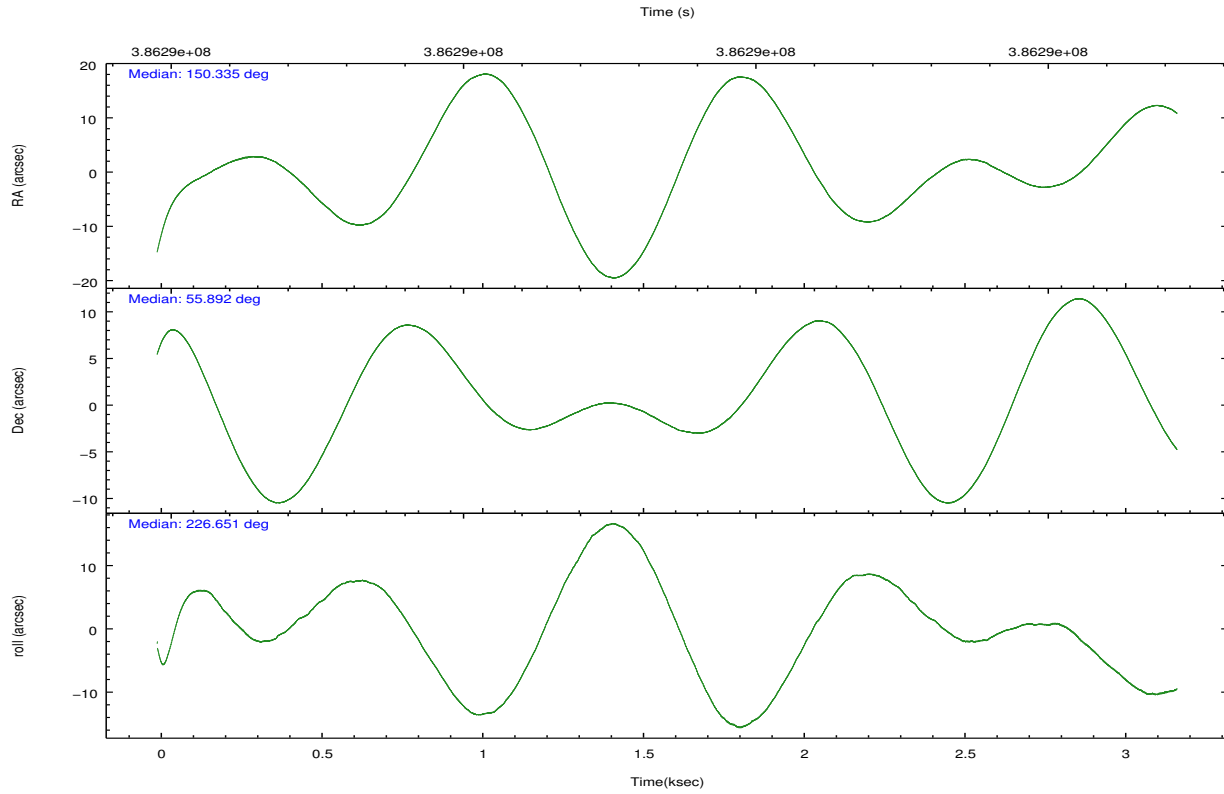
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	694	596	692	1233	1880
	3%	3%	3%	5%	7%
grade 1 events	11	5	6	36	15
	0%	0%	0%	0%	0%
grade 2 events	406	406	444	2140	1483
	2%	2%	2%	9%	6%
grade 3 events	236	252	273	1092	770
	1%	1%	1%	4%	3%
grade 4 events	214	219	268	1013	680
	1%	1%	1%	4%	2%
grade 5 events	601	693	767	2275	1073
	3%	4%	4%	10%	4%
grade 6 events	351	390	406	5070	1853
	1%	2%	2%	23%	7%
grade 7 events	16052	14294	16068	9096	16806
	86%	84%	84%	41%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	150.345522	150.3349751775058	CCD I2 on	O4	Y
[deg] Pointing Dec	55.919001	55.8923207445422	CCD I3 on	O3	Y
[deg] Pointing Roll	226.492666	226.6579686384574	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	386286272.184000	386284896.19654	CCD S5 on	N	N
Observation start date	2010-03-29T21:43:26	2010-03-29T21:21:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	386289272.184000	386289994.0343	On-chip summing requested	N	N
Observation end date	2010-03-29T22:33:26	2010-03-29T22:46:34	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



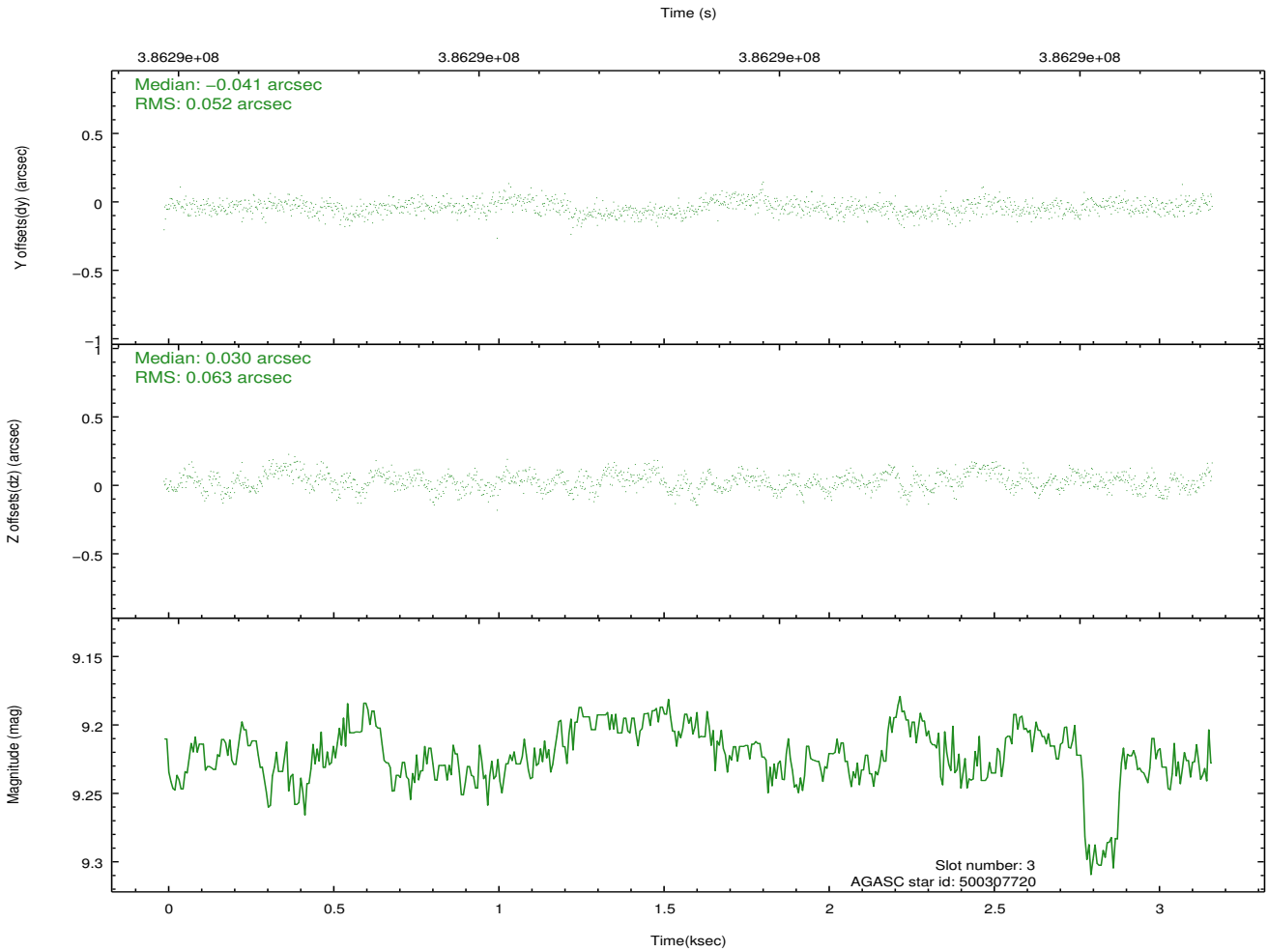
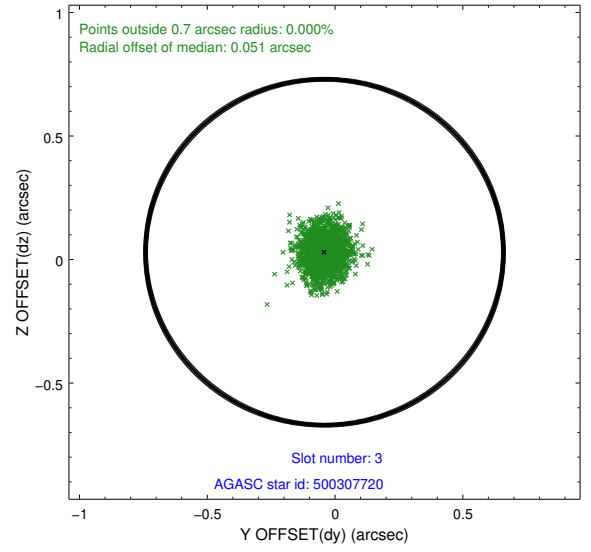
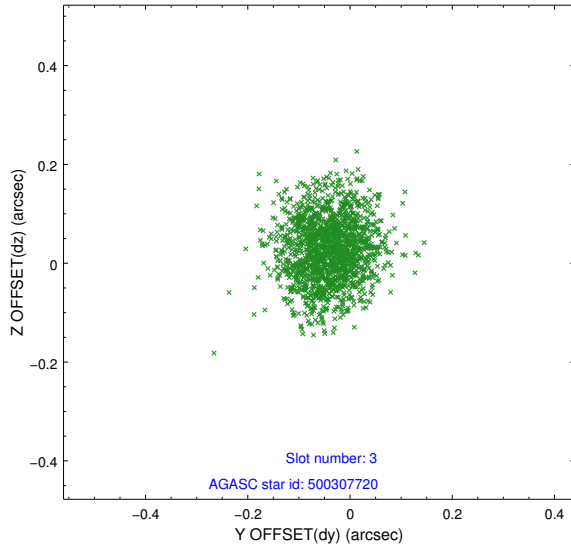


Slot Statistics

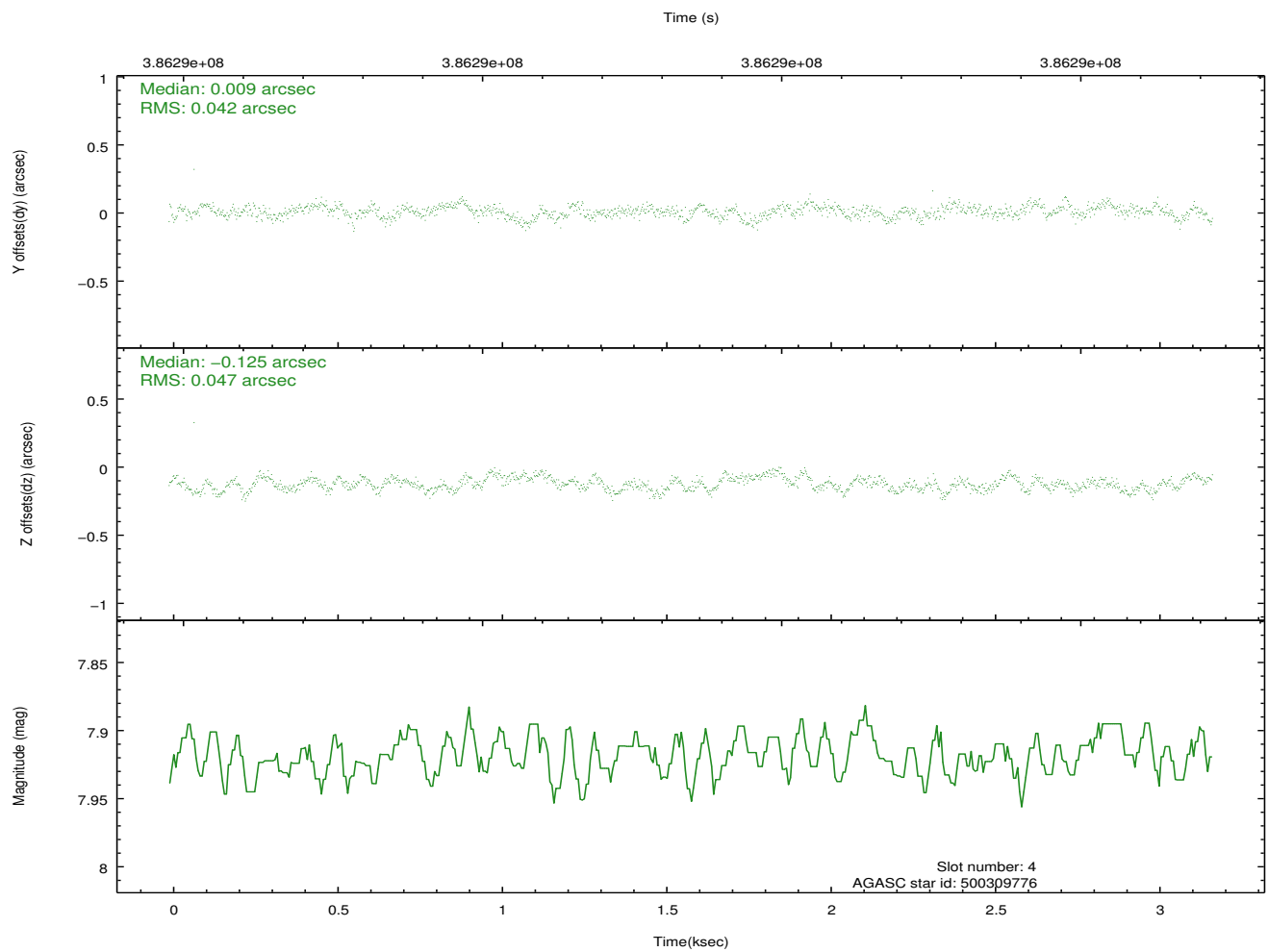
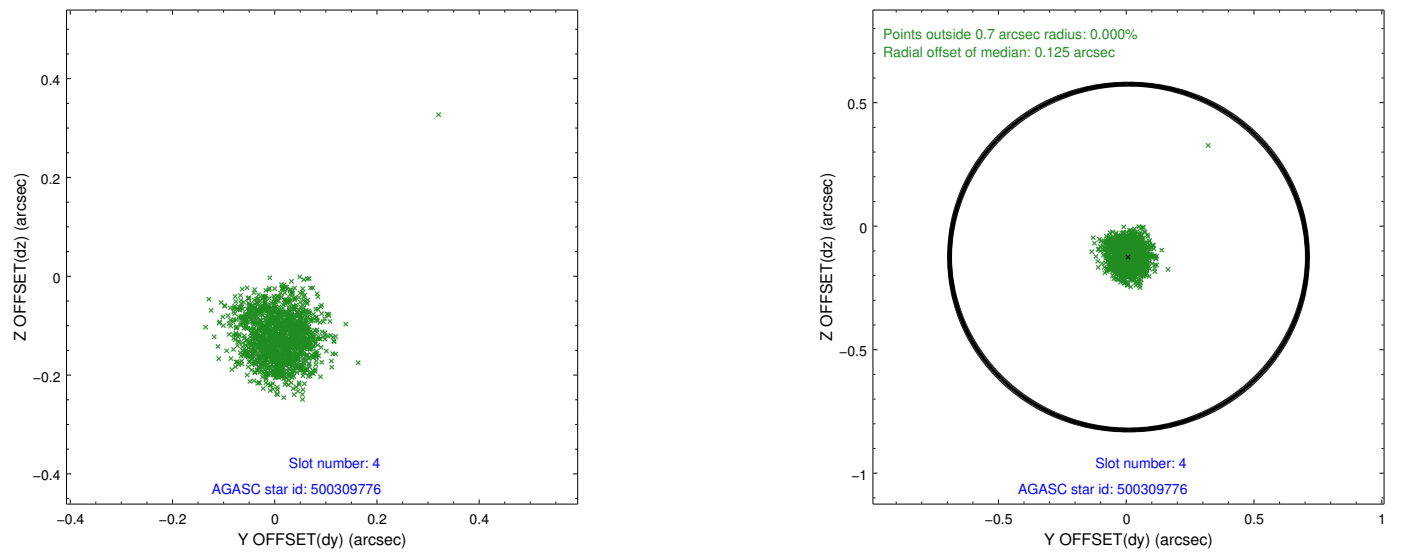
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	774	-0.065	-0.034	0.006	0.012	0.000000	0.000000	-769.10	-1739.73
1	FID	ACIS-S-4	6.96	774	0.141	0.041	0.006	0.010	0.000000	0.000000	2143.51	166.66
2	FID	ACIS-S-5	6.99	773	-0.107	0.002	0.007	0.011	0.000000	0.000000	-1819.36	162.68
3	GUIDE	500307720	9.22	1549	-0.041	0.030	0.088	0.140	149.835368	56.109010	206.44	-1215.99
4	GUIDE	500309776	7.92	1548	0.009	-0.125	0.067	0.104	150.409238	55.585087	787.31	922.85
5	GUIDE	500310128	9.20	1547	0.166	0.096	0.101	0.160	150.281852	55.096051	2239.67	1945.72
6	GUIDE	500437816	8.68	1547	-0.019	0.074	0.074	0.121	151.181905	56.134575	-1723.63	676.98
7	GUIDE	500442560	7.04	1548	-0.123	-0.077	0.057	0.091	151.619747	55.769496	-1404.65	2226.08

2.4 Star Slots

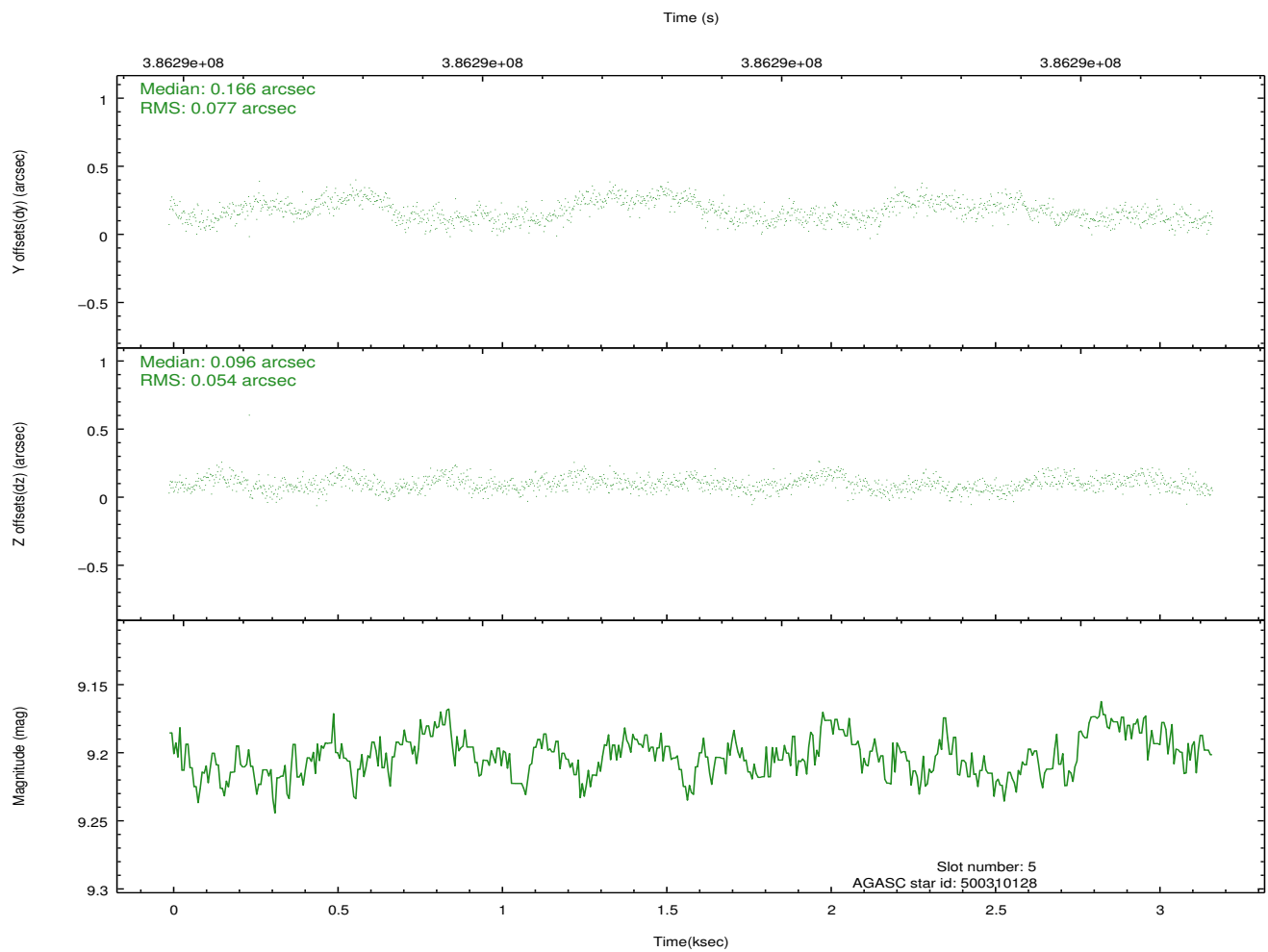
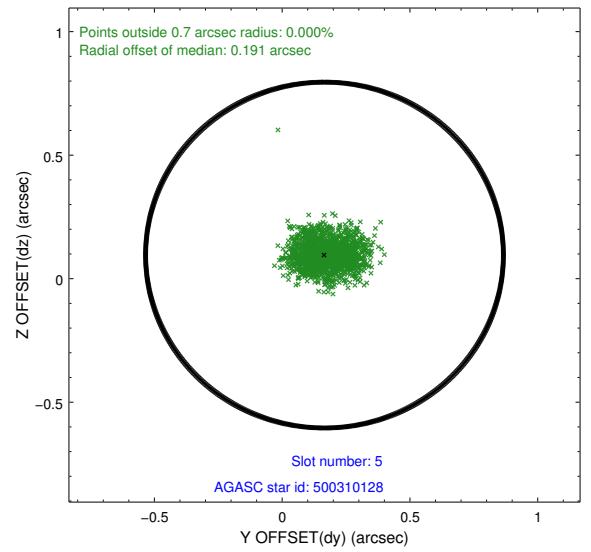
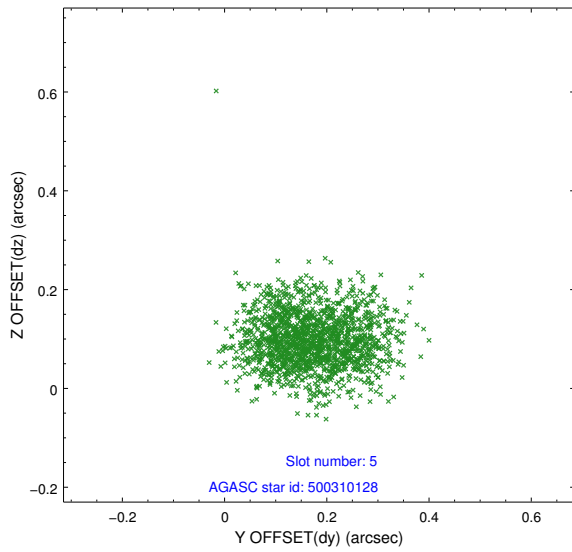
2.4.1 Slot 3



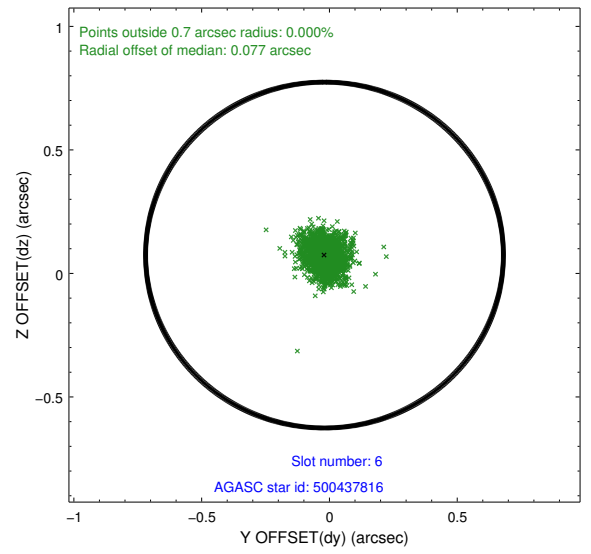
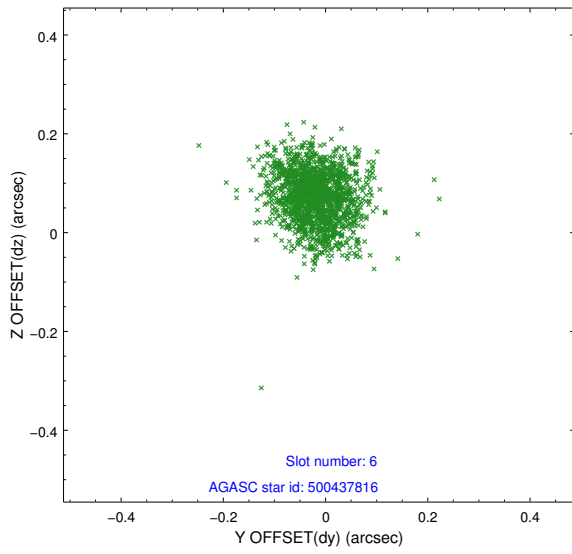
2.4.2 Slot 4



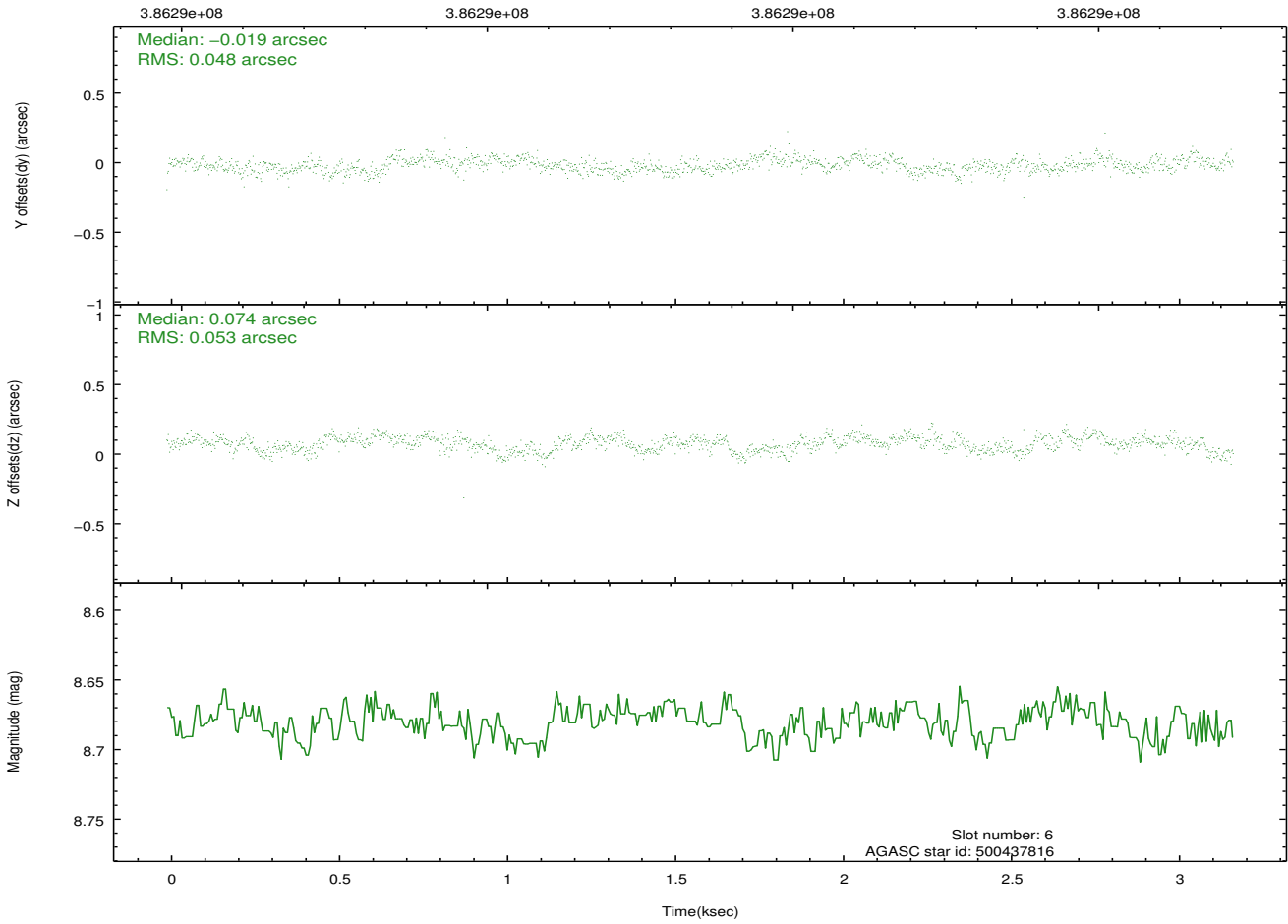
2.4.3 Slot 5



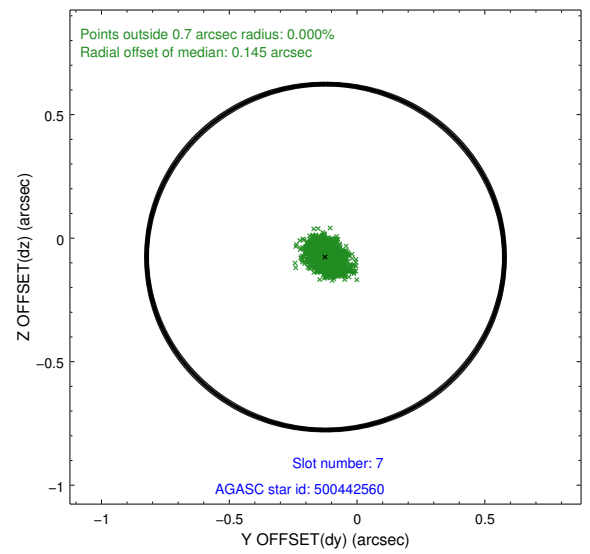
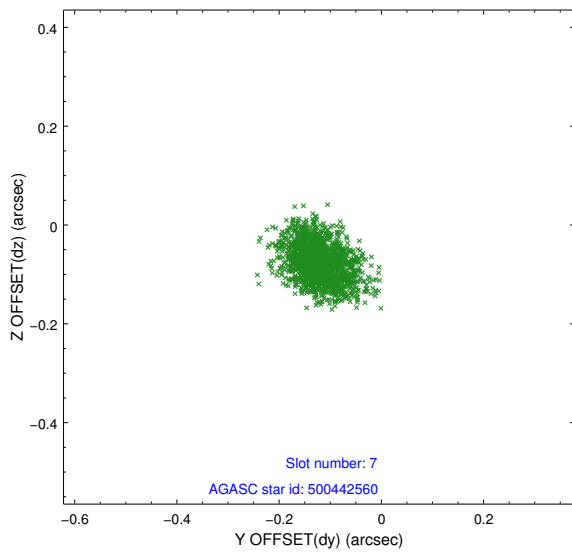
2.4.4 Slot 6



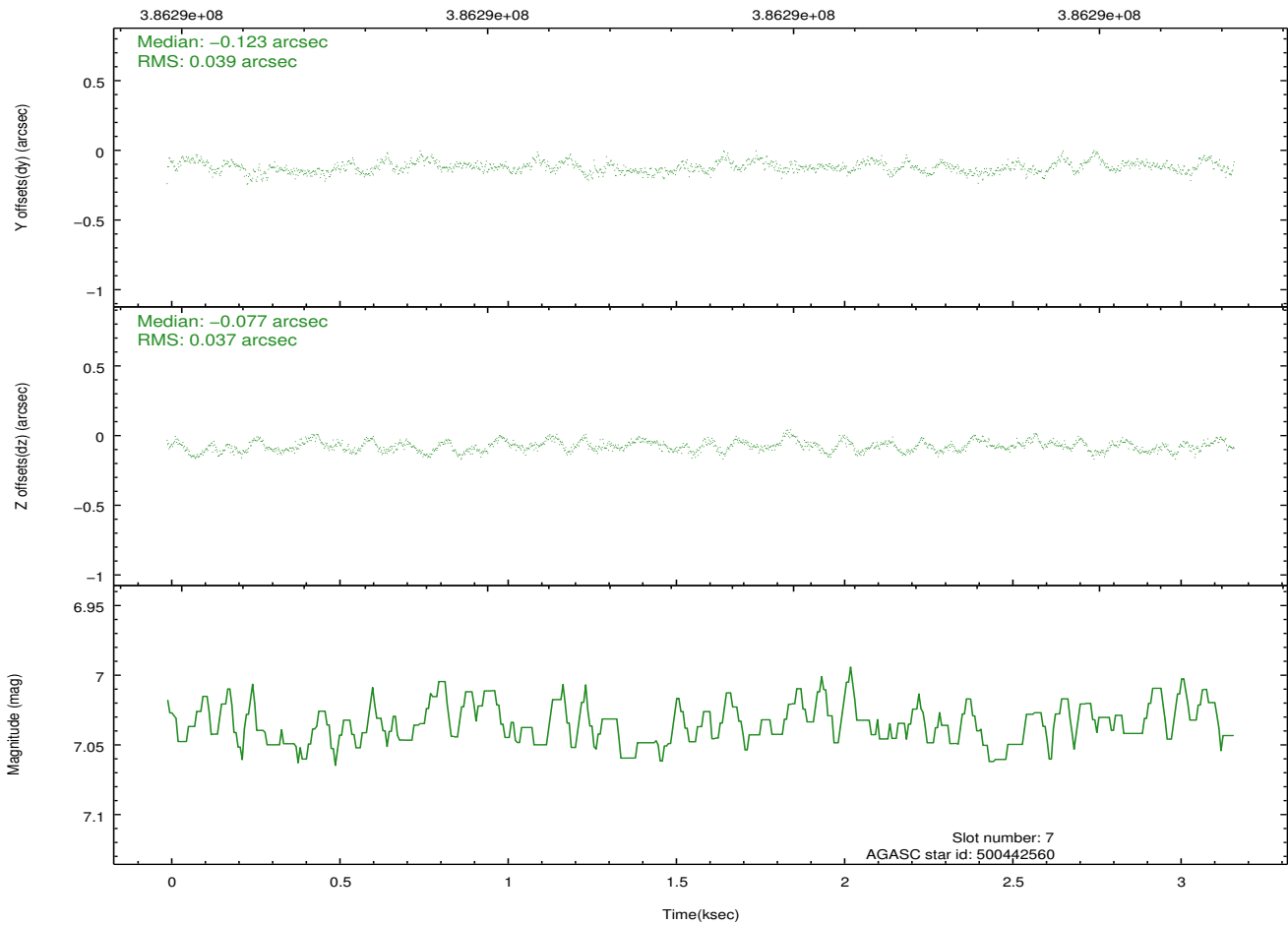
Time (s)



2.4.5 Slot 7

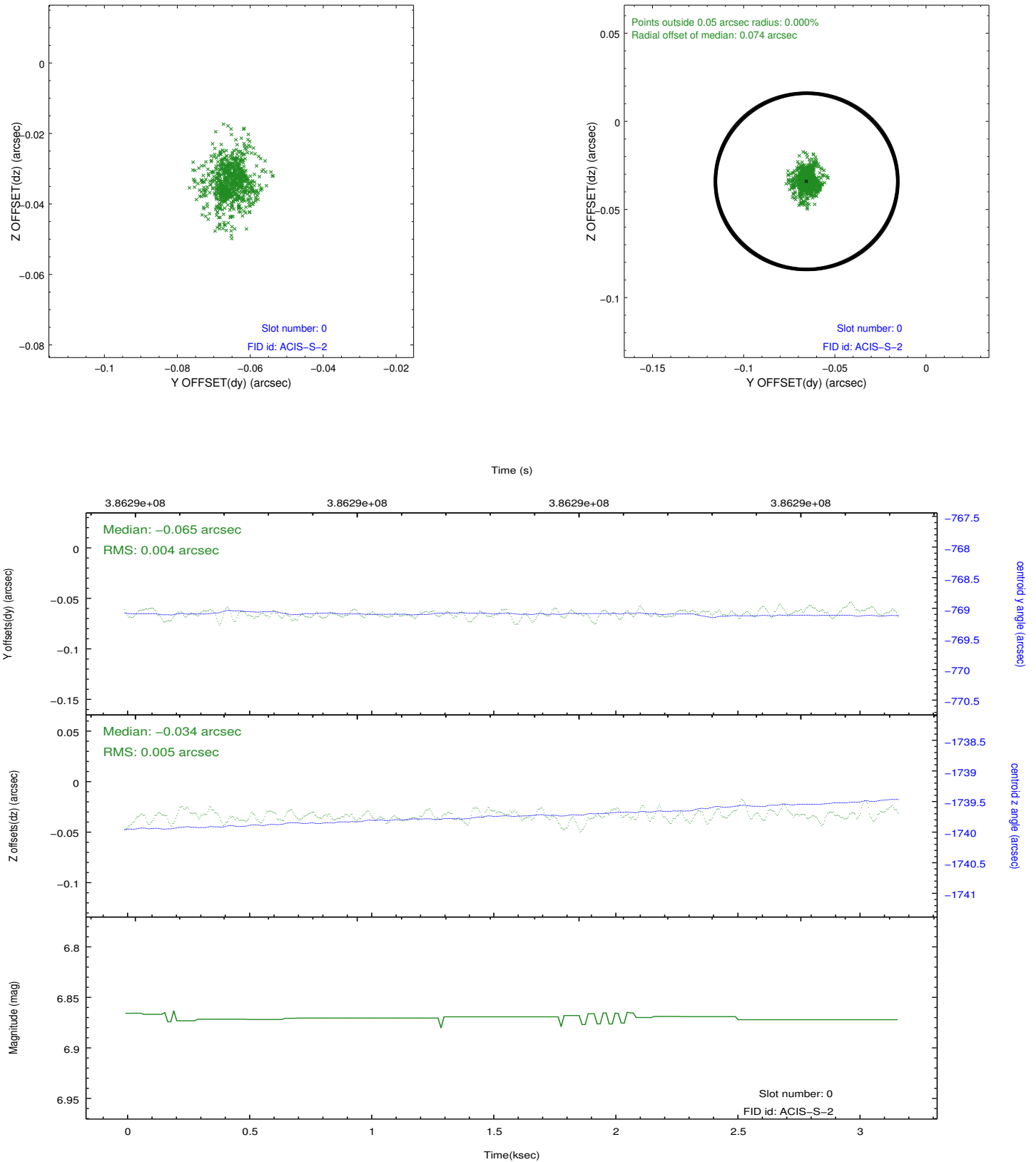


Time (s)

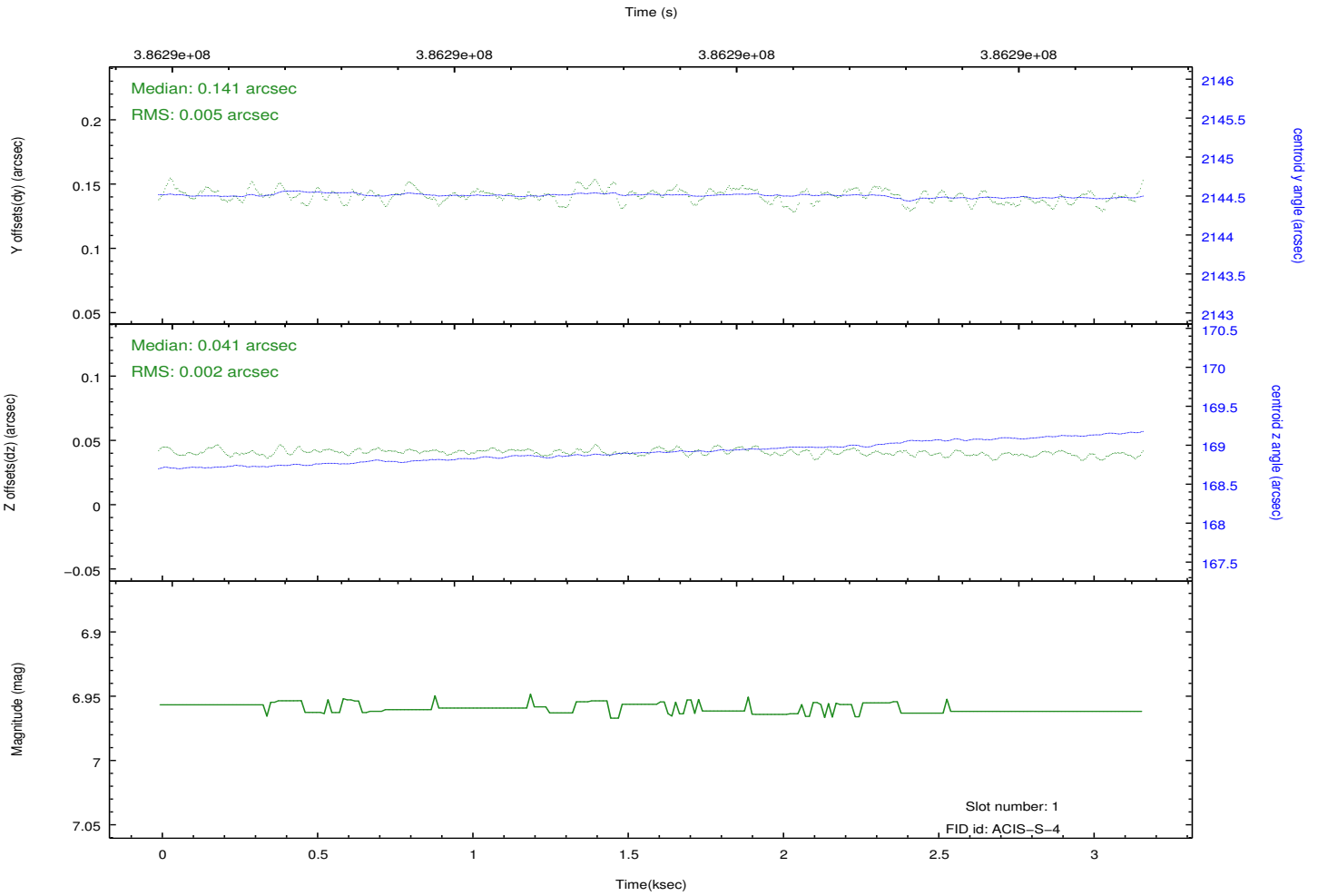
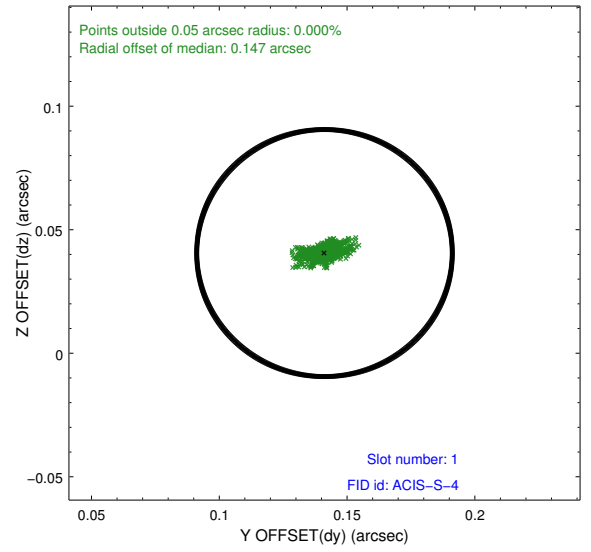
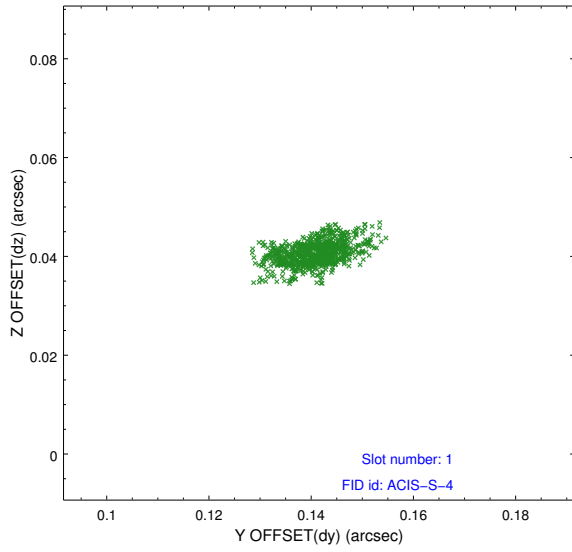


2.5 FID Slots

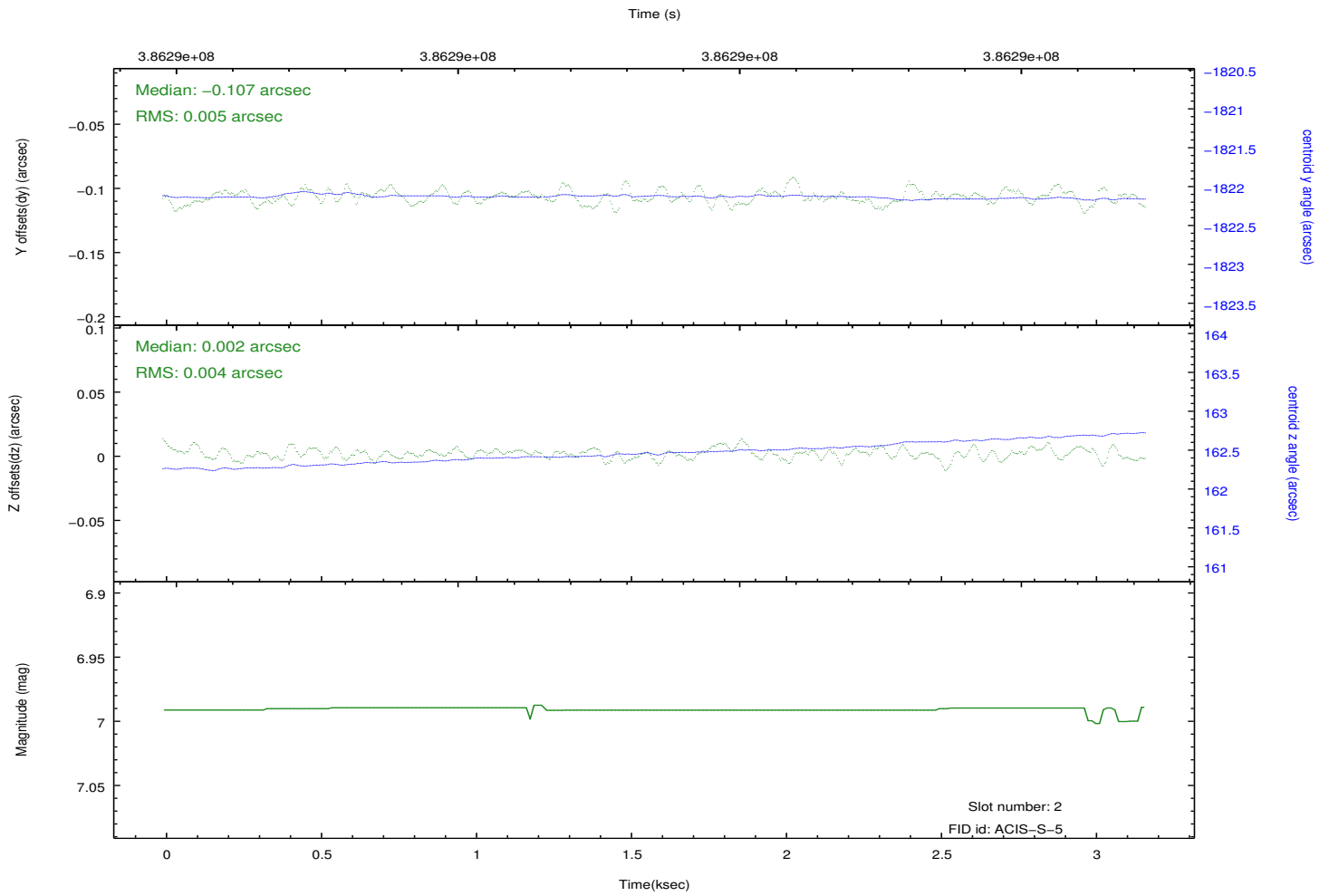
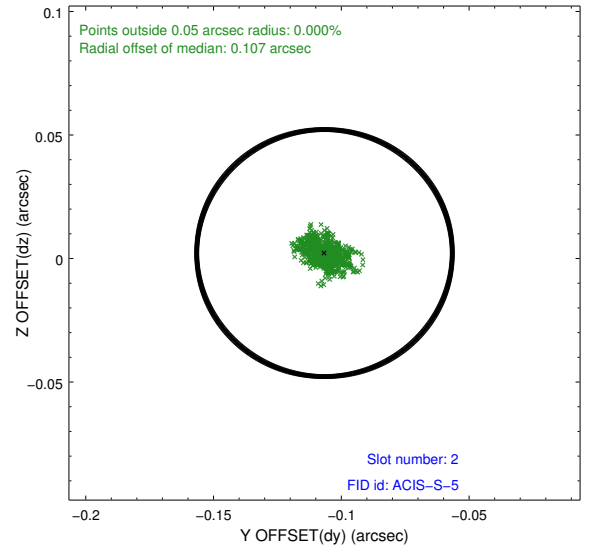
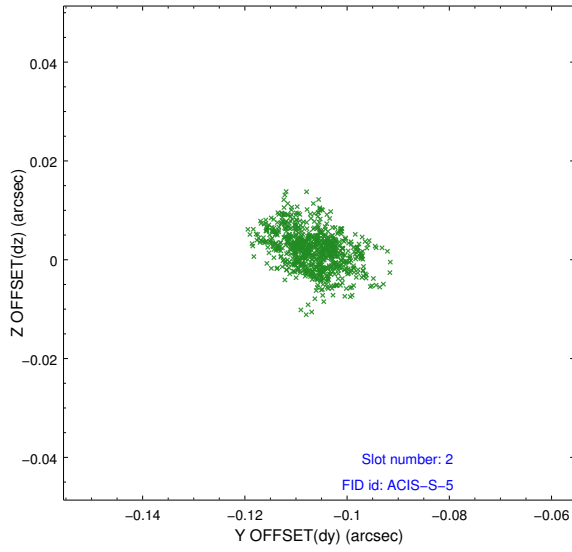
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1704999778271

A.2 Comments