

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12614 - L2 Version 2
Chandra X-Ray Center

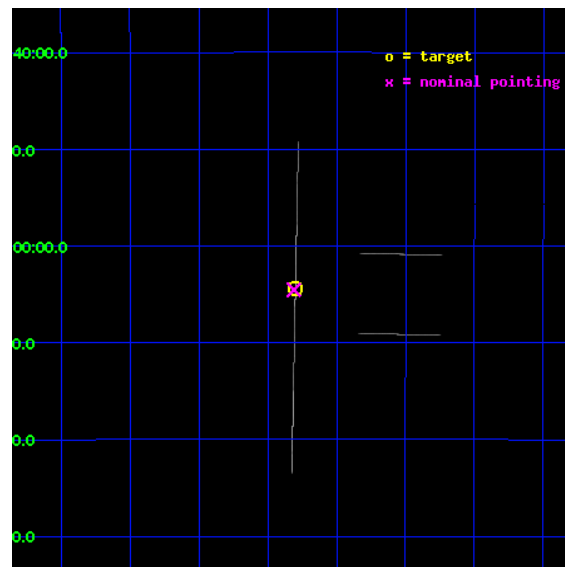
L2 Processing Date : Feb 23 2012

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1 Front

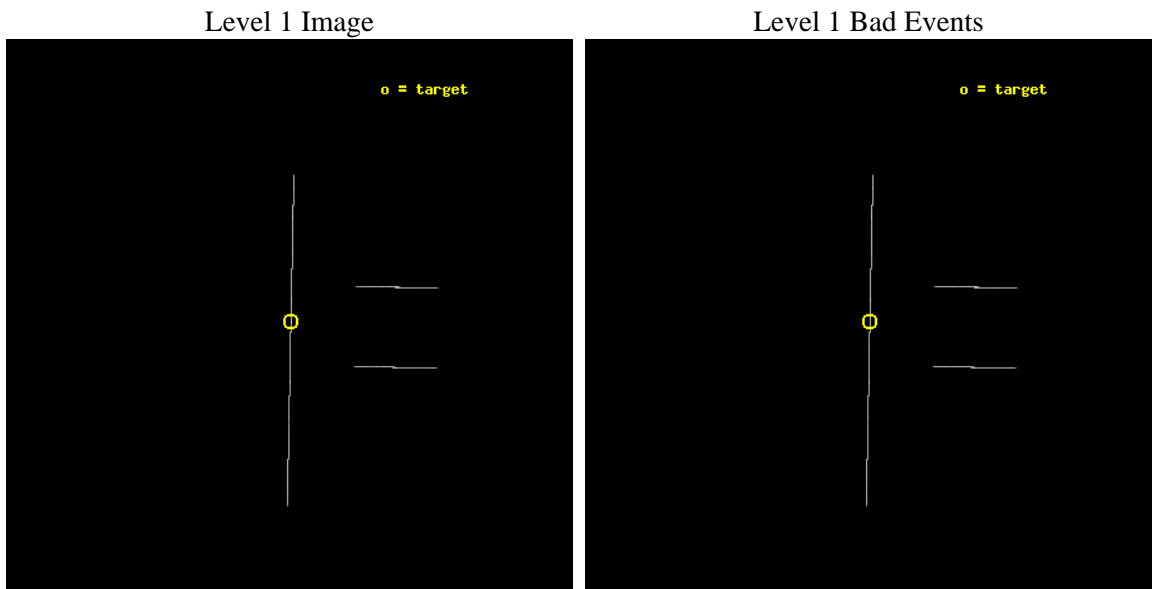
seq_num	501447	Sequence number
obs_id	12614	Observation id
title	TINY HICCUPS TO TITANIC EXPLOSIONS: Tackling Transients in Anomalous X-ray Pulsars	Proposal title
observer	Professor Victoria Kaspi	Principal investigator
object	SWIFT J1822.3-1606	Source name
ra_targ	275.575	Observer's specified target RA [deg]
dec_targ	-16.074111	Observer's specified target Dec [deg]
ra_nom	275.5777088802	Nominal RA [deg]
dec_nom	-16.075674332605	Nominal Dec [deg]
roll_nom	271.10952392046	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10077.25	Sum of GTIs [s]
livetime	10037.885742188	Livetime [s]
ontime2	10077.25	Sum of GTIs [s]
ontime3	10077.25	Sum of GTIs [s]
ontime5	10077.25	Sum of GTIs [s]
ontime6	10077.25	Sum of GTIs [s]
ontime7	10077.25	Sum of GTIs [s]
ontime8	10077.25	Sum of GTIs [s]
l2events	151714	Number of level 2 events



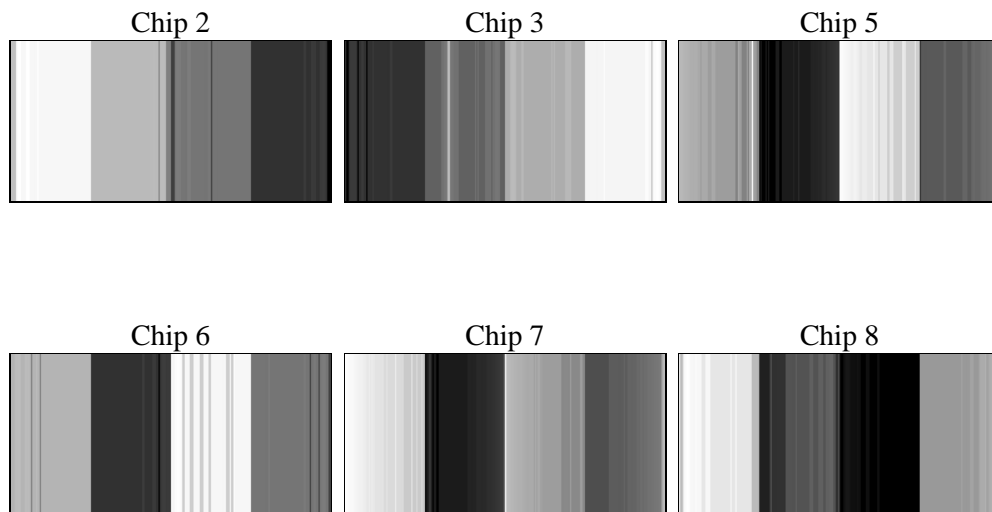
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10077.25	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	10077.25	Sum of GTIs [s]
date	2012-02-23T01:27:01	Date and time of file creation	ontime3	10077.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10077.25	Sum of GTIs [s]
			ontime6	10077.25	Sum of GTIs [s]
			ontime7	10077.25	Sum of GTIs [s]
			ontime8	10077.25	Sum of GTIs [s]
			l1events	779734	Number of level 1 events

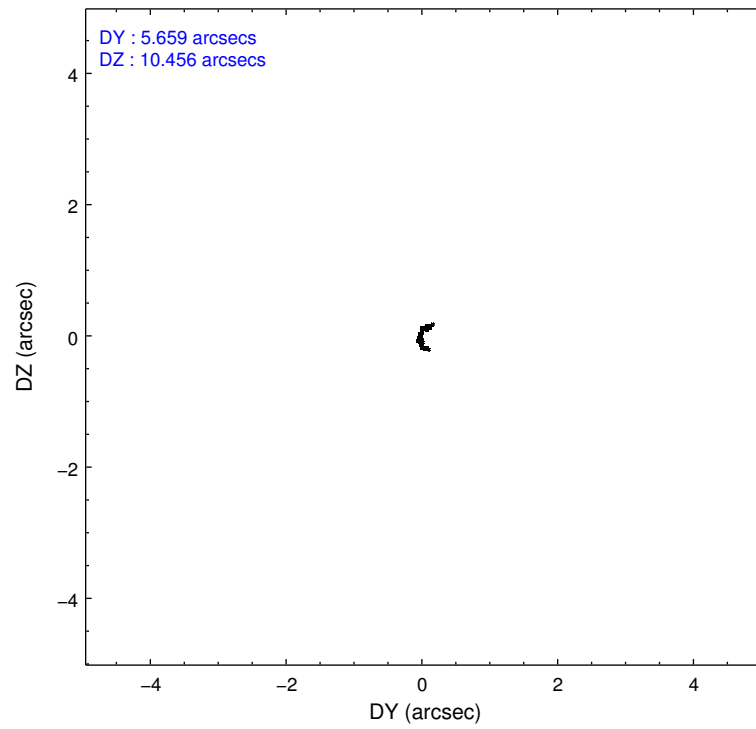
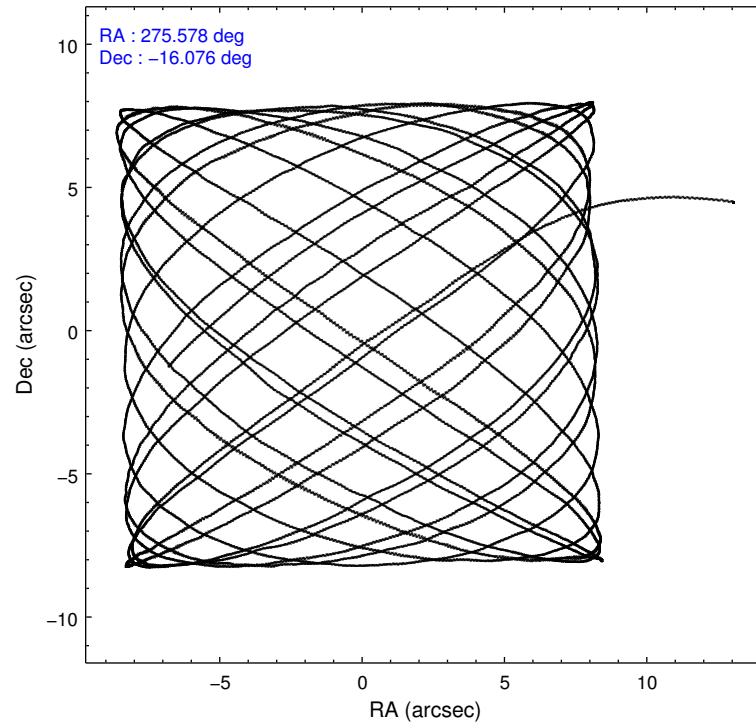
2.1.4 Events

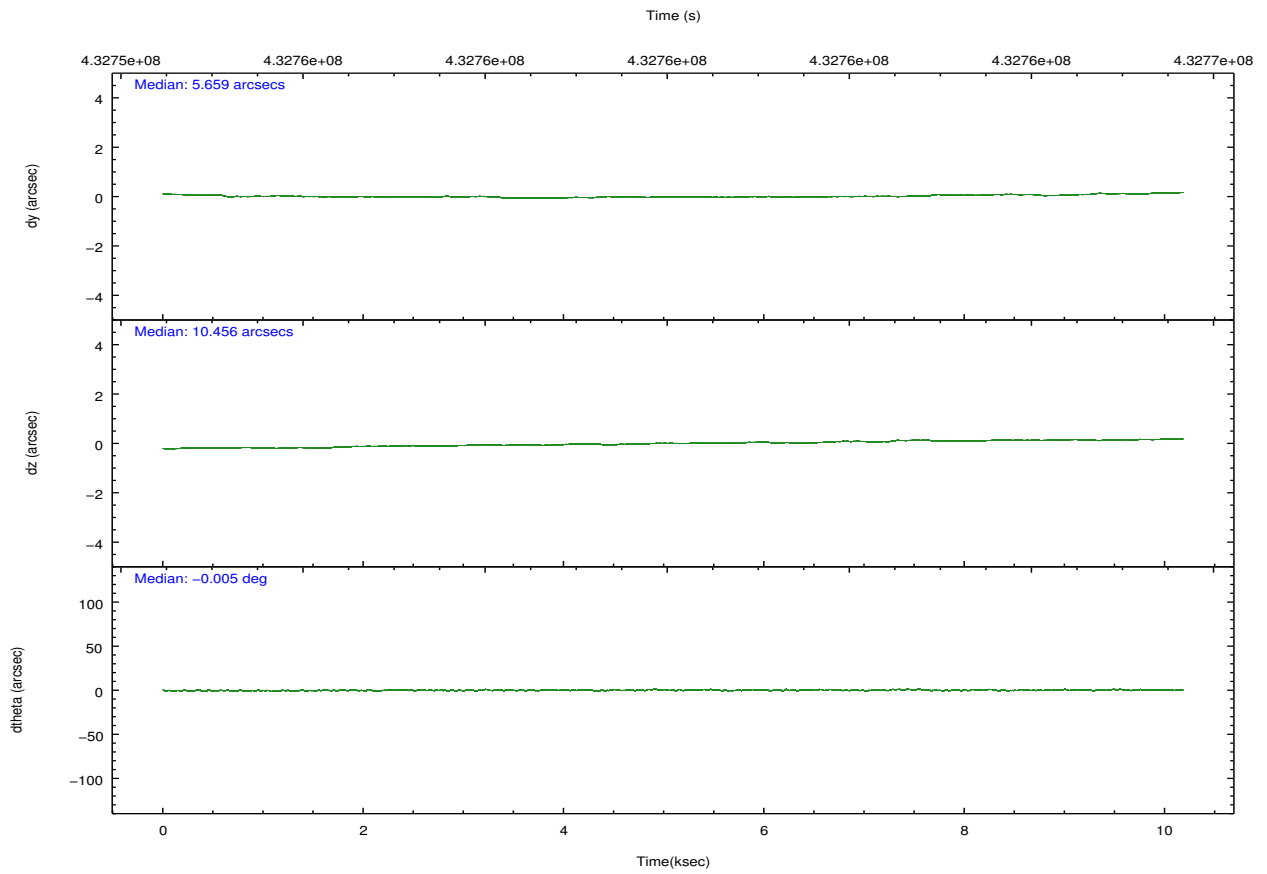
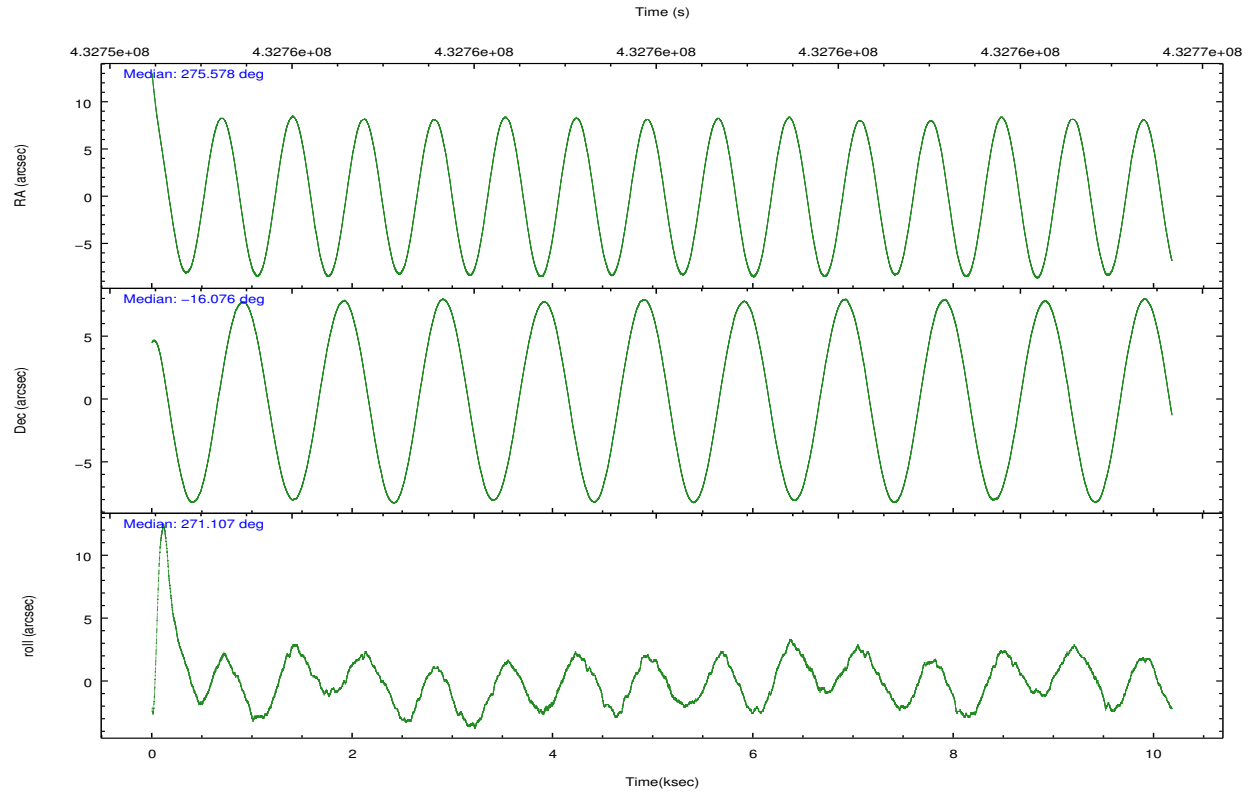
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	109083	113198	133386	108824	144328	170915	grade 0 events	1547	1431	4626	1291	10091	6027
rejected events	97893	101975	80693	97324	78453	142720		1%	1%	3%	1%	6%	3%
rejected %	89%	90%	60%	89%	54%	83%	grade 1 events	61	66	177	67	145	111
								0%	0%	0%	0%	0%	0%
							grade 2 events	4725	4332	16107	4511	17899	8635
								4%	3%	12%	4%	12%	5%
							grade 3 events	1300	1590	1375	1485	5185	3063
								1%	1%	1%	1%	3%	1%
							grade 4 events	1295	1306	1290	1391	5243	2862
								1%	1%	0%	1%	3%	1%
							grade 5 events	2617	3086	7147	3022	8174	4541
								2%	2%	5%	2%	5%	2%
							grade 6 events	2330	2569	29310	2824	27490	7611
								2%	2%	21%	2%	19%	4%
							grade 7 events	95208	98818	73354	94233	70101	138065
								87%	87%	54%	86%	48%	80%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	275.562658	275.5777088801955	CCD I2 on	O2	Y
[deg] Pointing Dec	-16.052467	-16.07567433260481	CCD I3 on	O3	Y
[deg] Pointing Roll	270.948755	271.1095239204552	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	432755161.184000	432754210.58436	CCD S5 on	N	N
Observation start date	2011-09-18T17:44:55	2011-09-18T17:30:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	432765161.184000	432766096.99748	On-chip summing requested	N	N
Observation end date	2011-09-18T20:31:35	2011-09-18T20:48:16	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



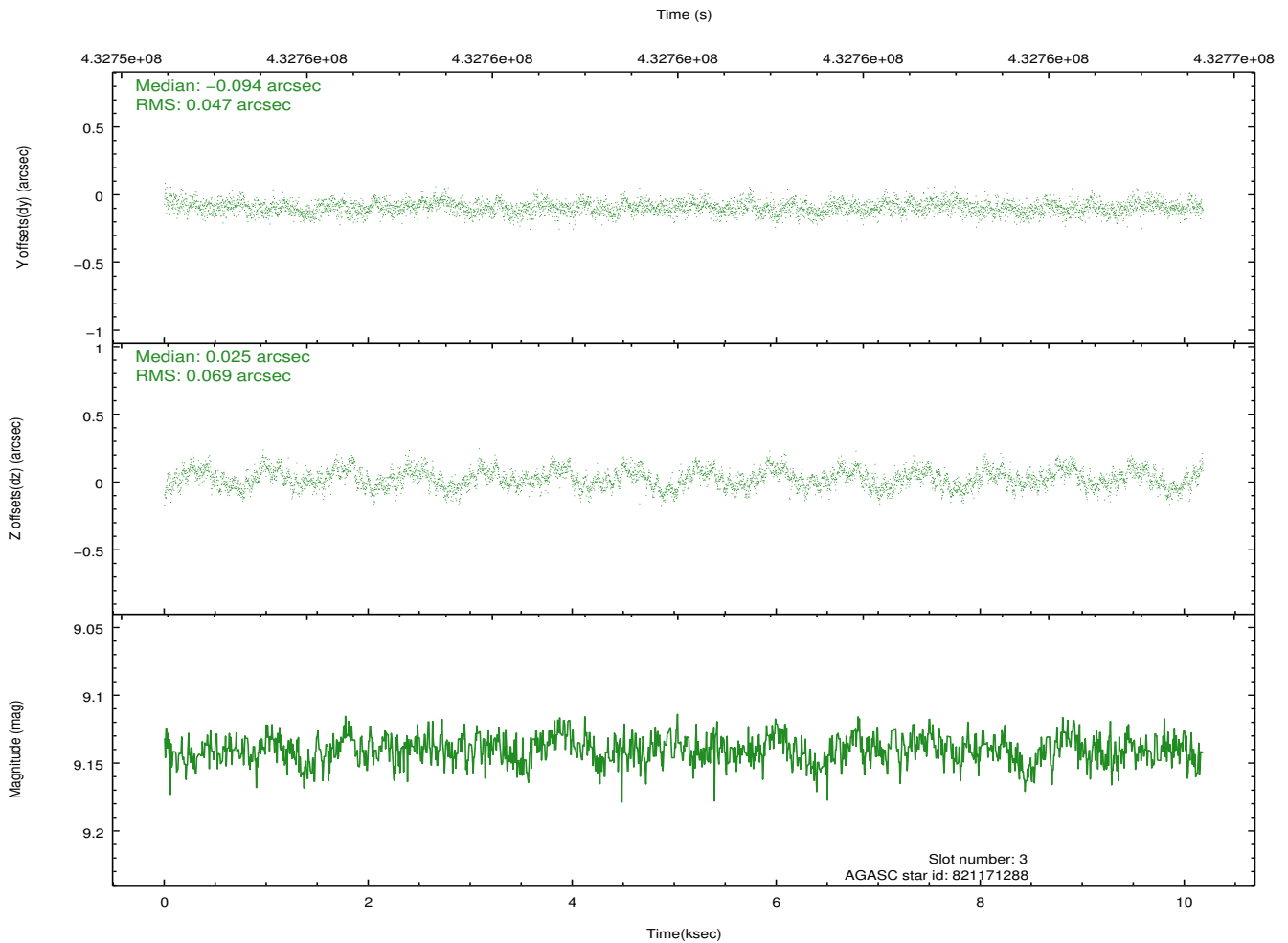
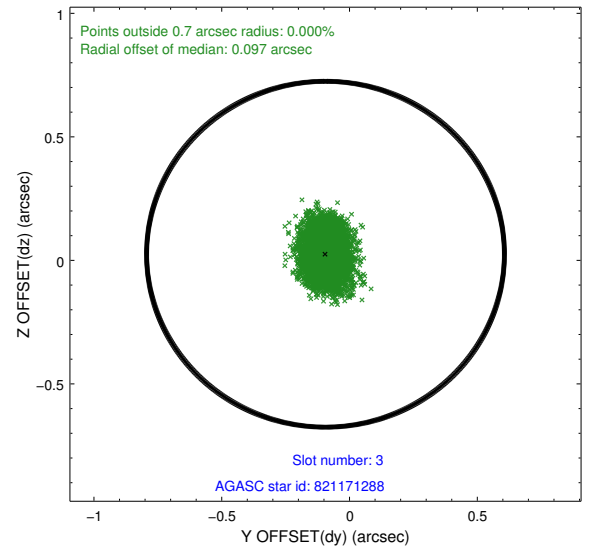
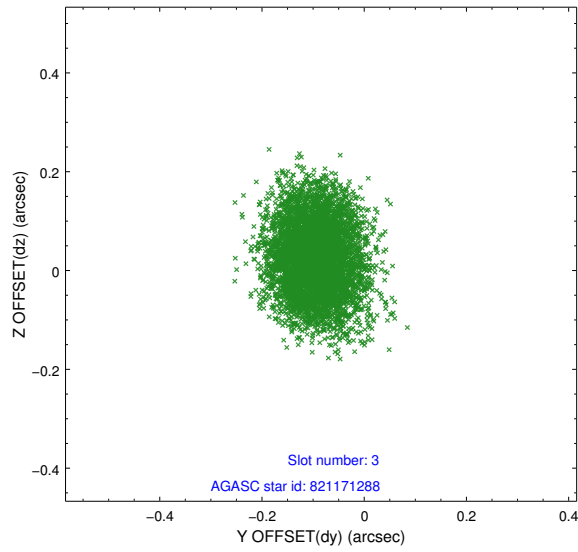


Slot Statistics

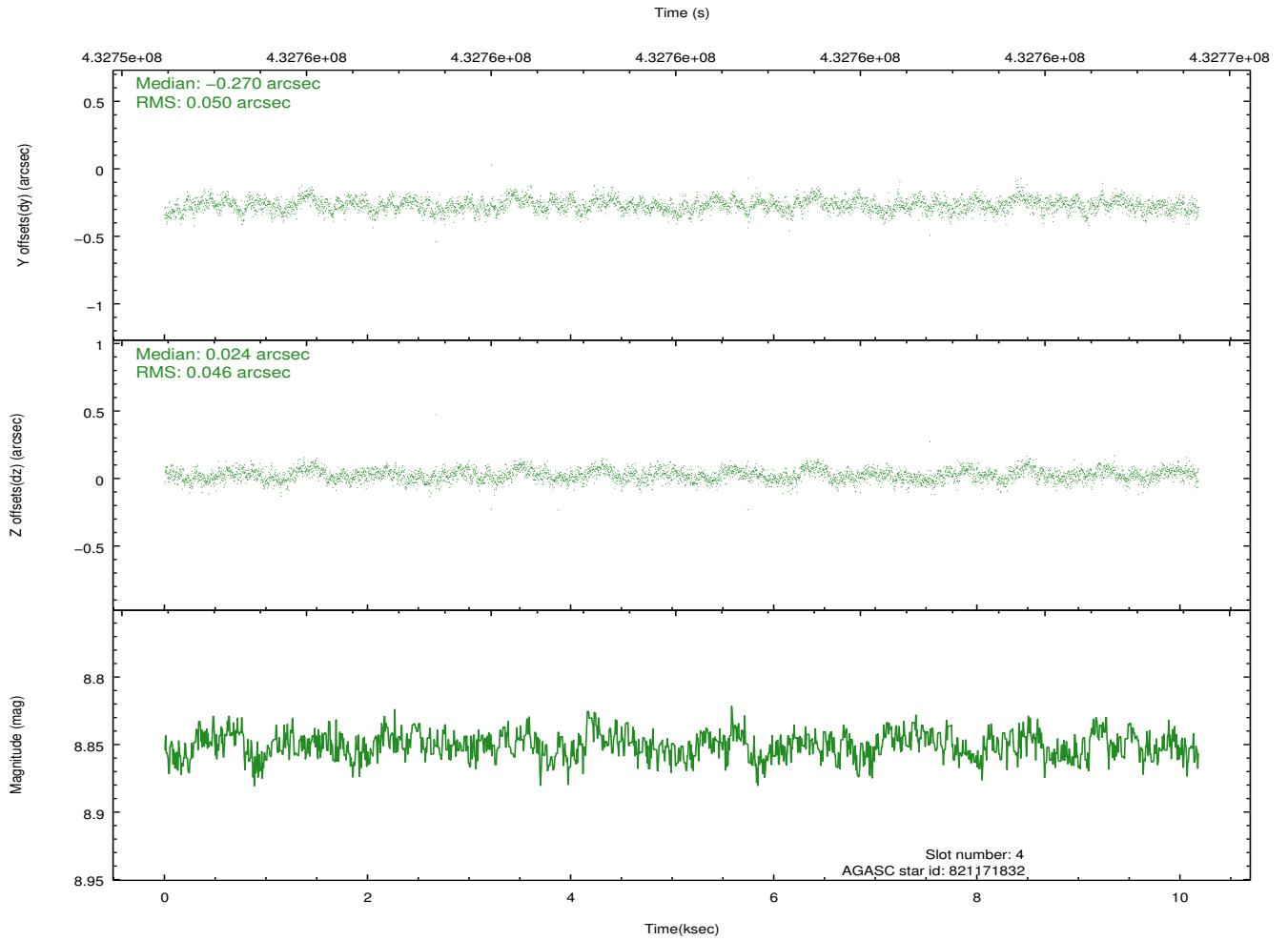
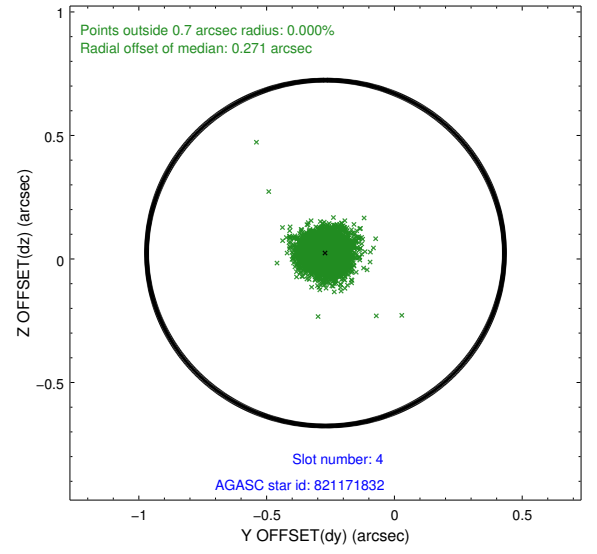
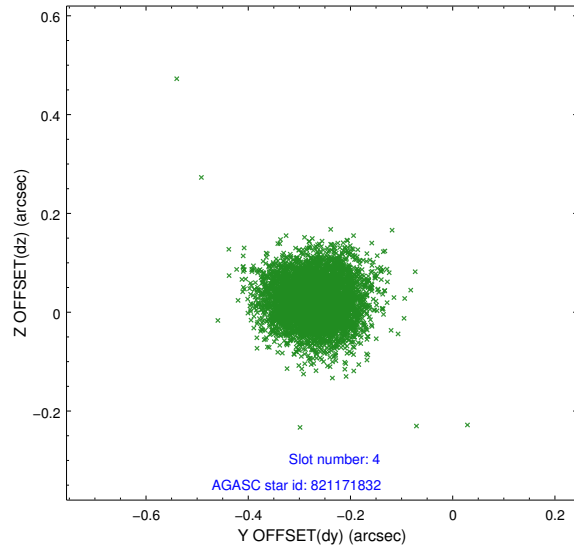
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.07	2483	0.044	-0.062	0.010	0.017	0.000000	0.000000	937.67	-1727.40
1	FID	ACIS-S-5	7.12	2483	-0.115	0.015	0.007	0.012	0.000000	0.000000	-1811.17	169.72
2	FID	ACIS-S-6	7.23	2483	0.050	0.060	0.009	0.016	0.000000	0.000000	402.70	814.29
3	GUIDE	821171288	9.14	4963	-0.094	0.025	0.089	0.145	275.426002	-15.652858	-1445.78	-449.81
4	GUIDE	821171832	8.85	4965	-0.270	0.024	0.071	0.114	275.792275	-15.610164	-1578.66	822.35
5	GUIDE	821180448	7.16	4957	0.057	0.044	0.059	0.101	275.453560	-16.324585	973.50	-392.79
6	GUIDE	821183768	9.23	4964	0.235	-0.092	0.088	0.136	275.638665	-16.595886	1961.25	229.78
7	GUIDE	821169272	7.28	4966	0.072	0.006	0.051	0.078	275.312025	-16.375484	1149.79	-884.67

2.4 Star Slots

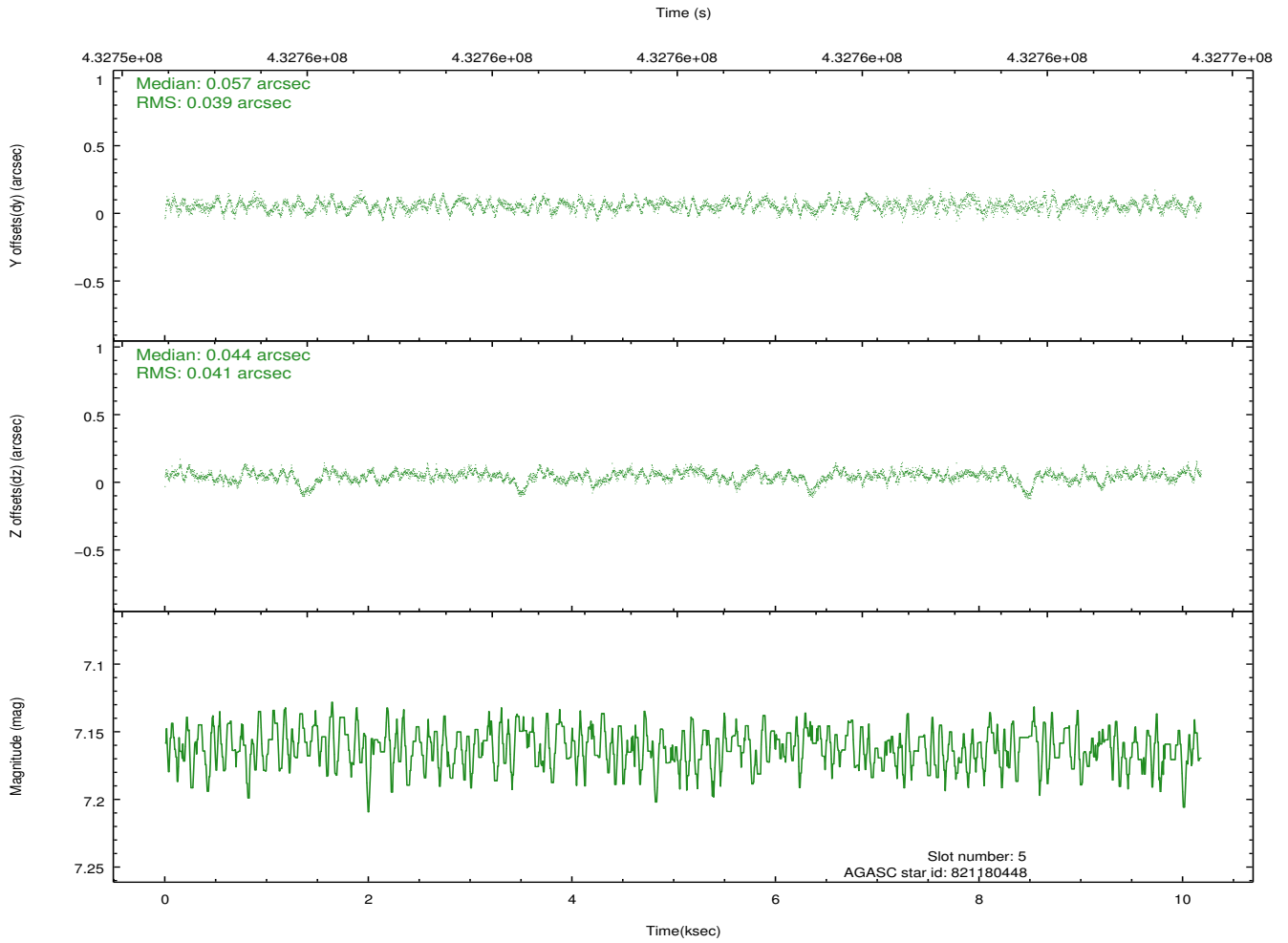
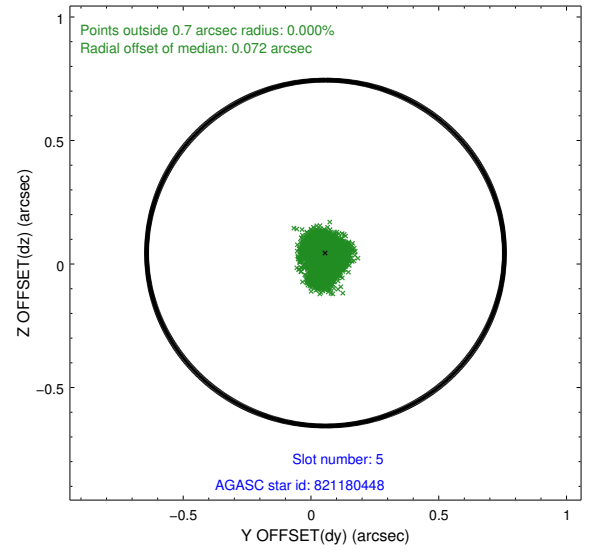
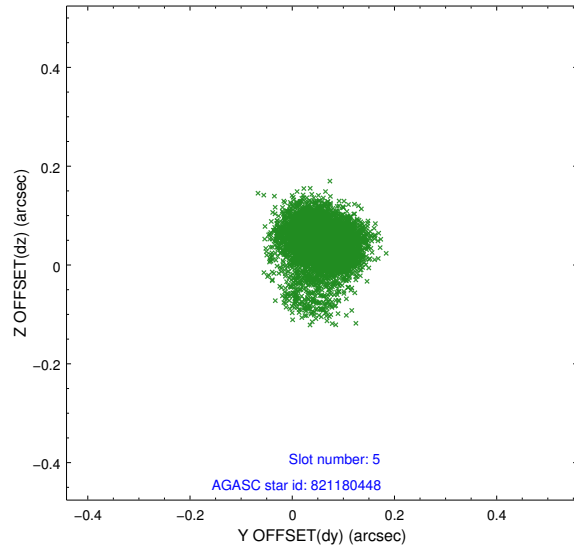
2.4.1 Slot 3



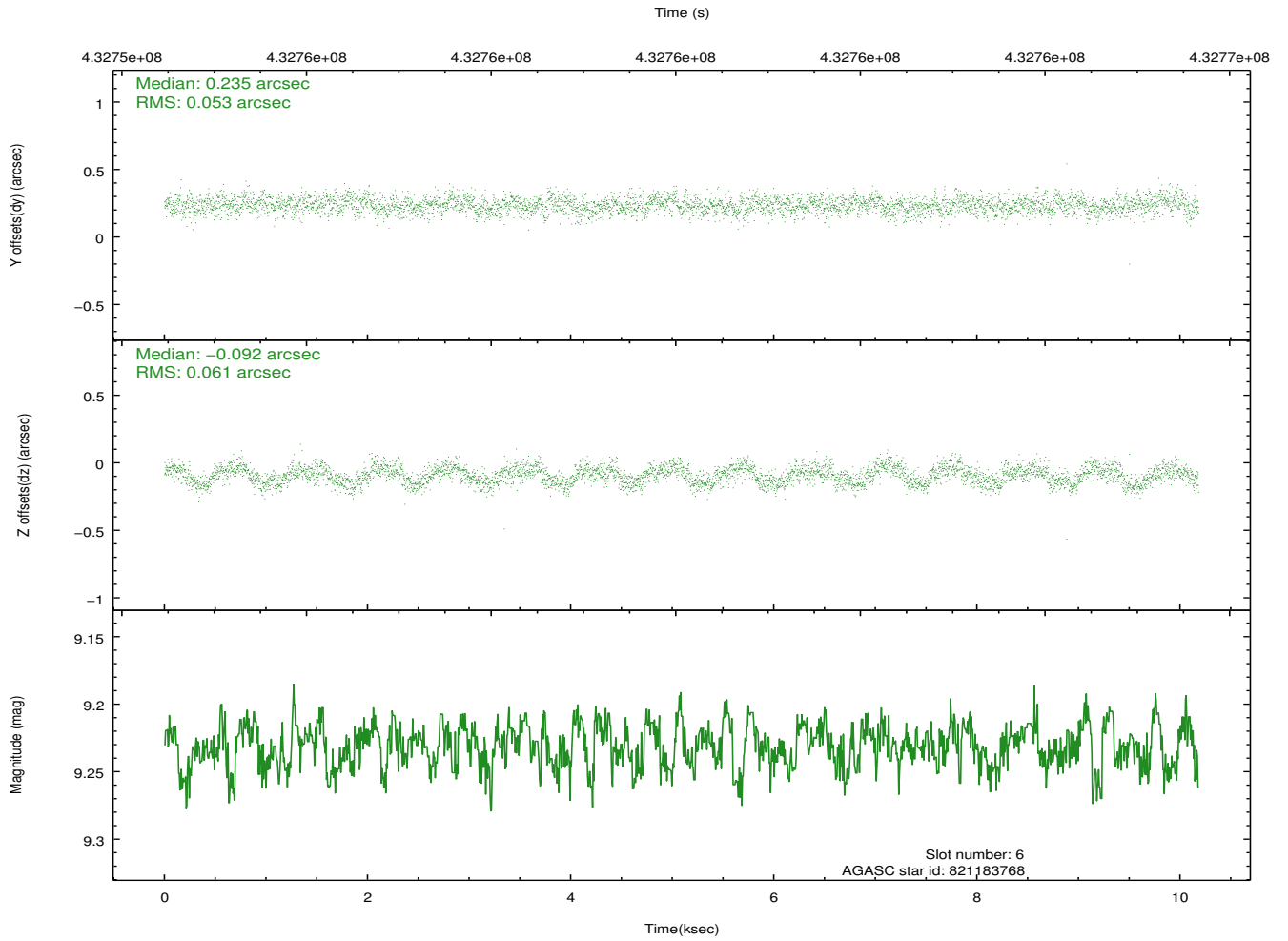
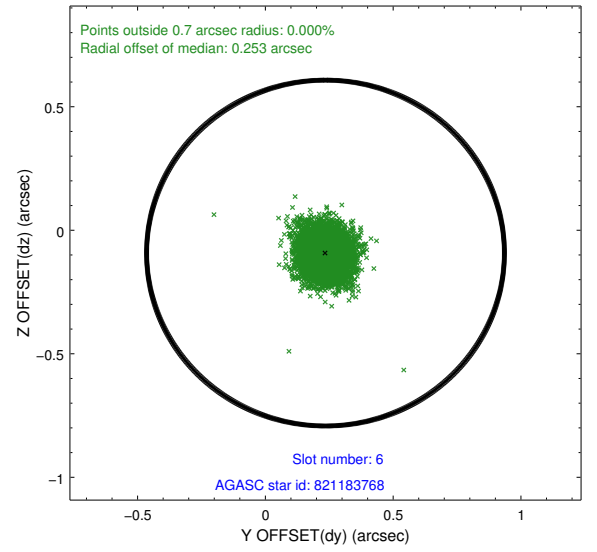
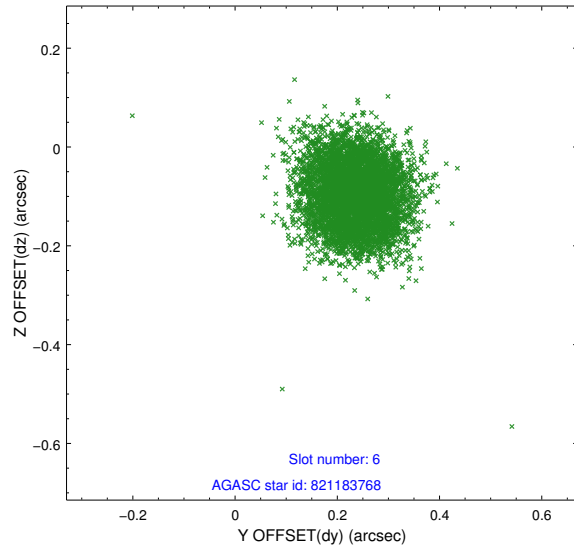
2.4.2 Slot 4



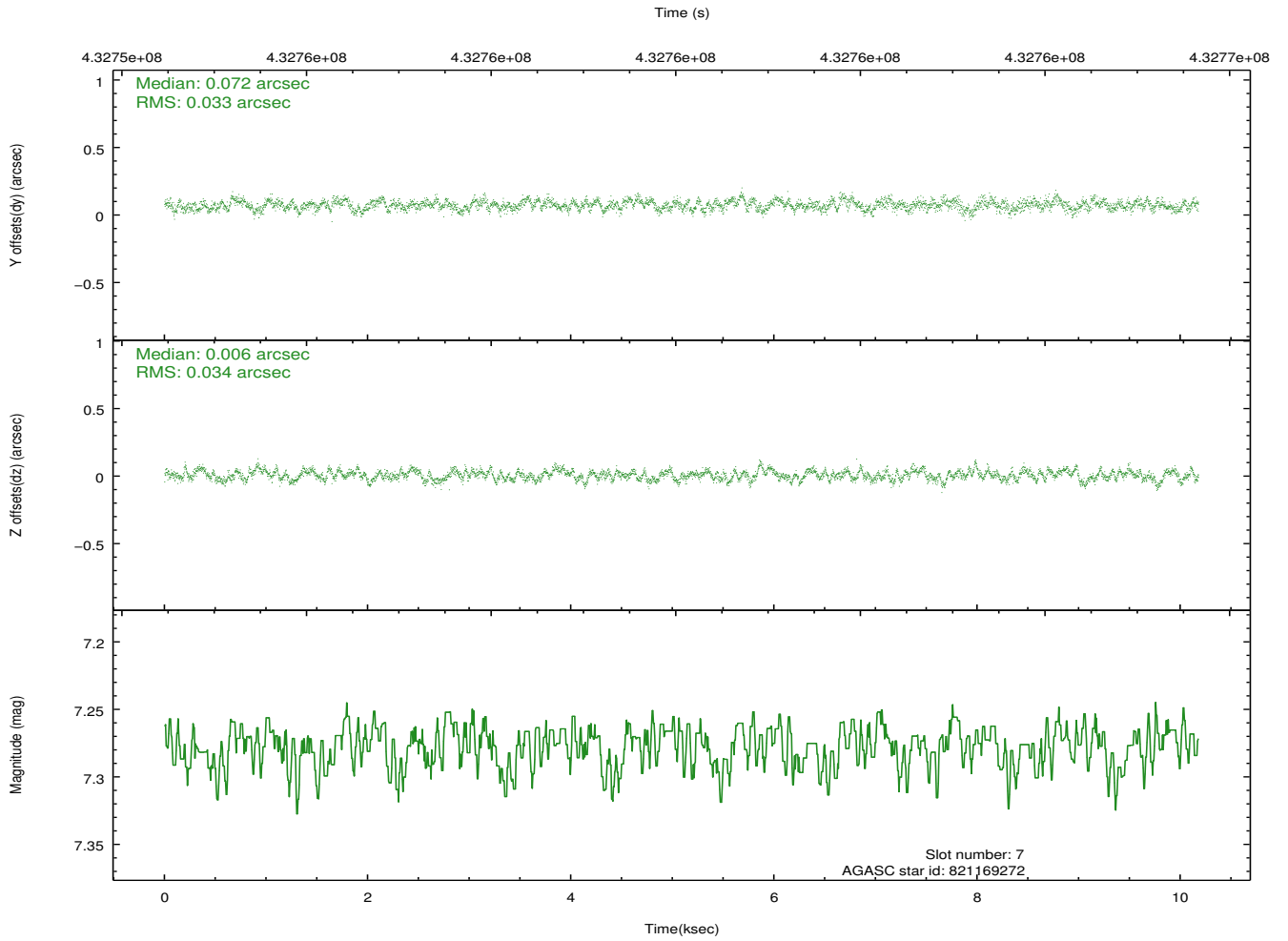
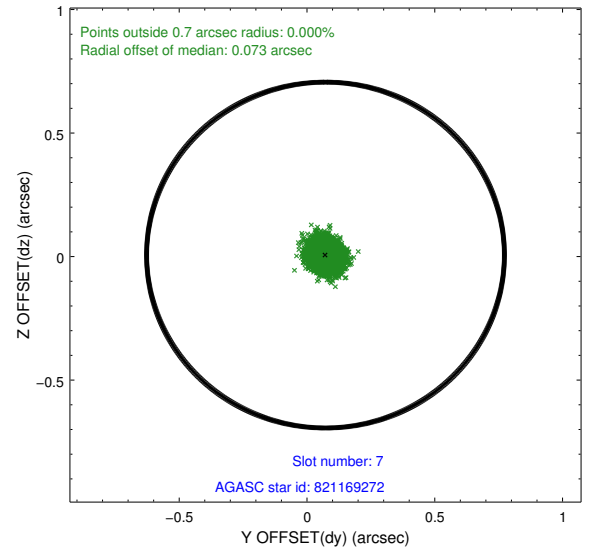
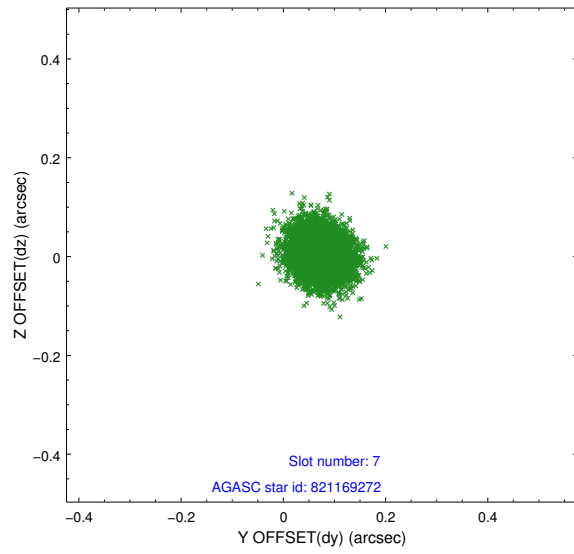
2.4.3 Slot 5



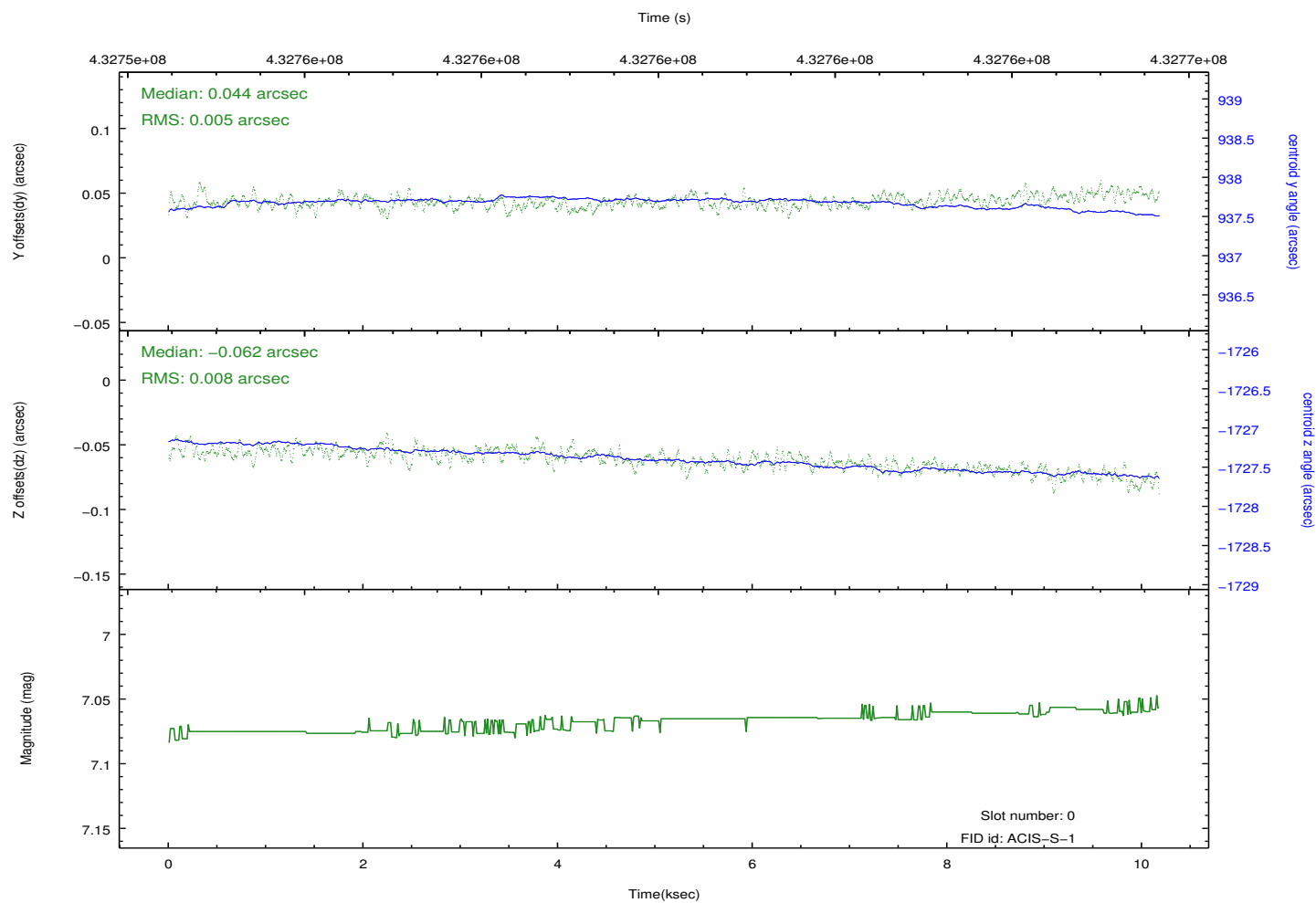
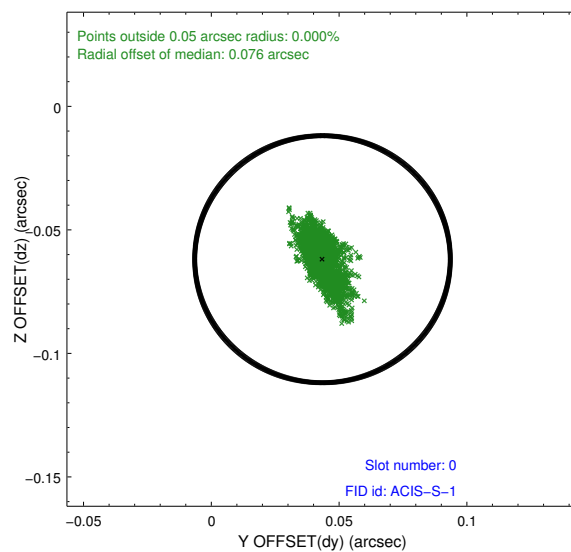
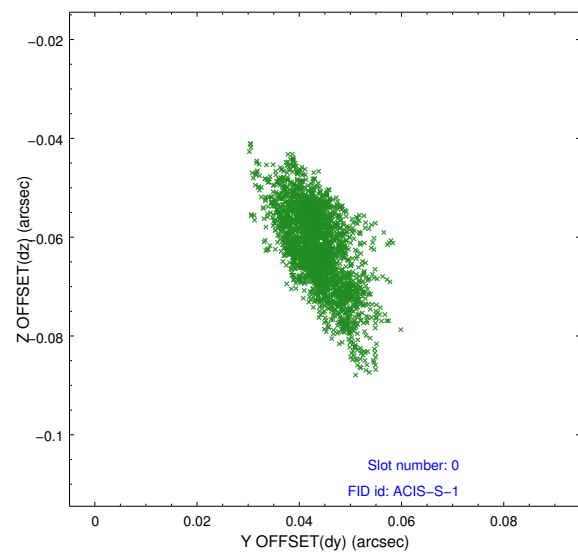
2.4.4 Slot 6



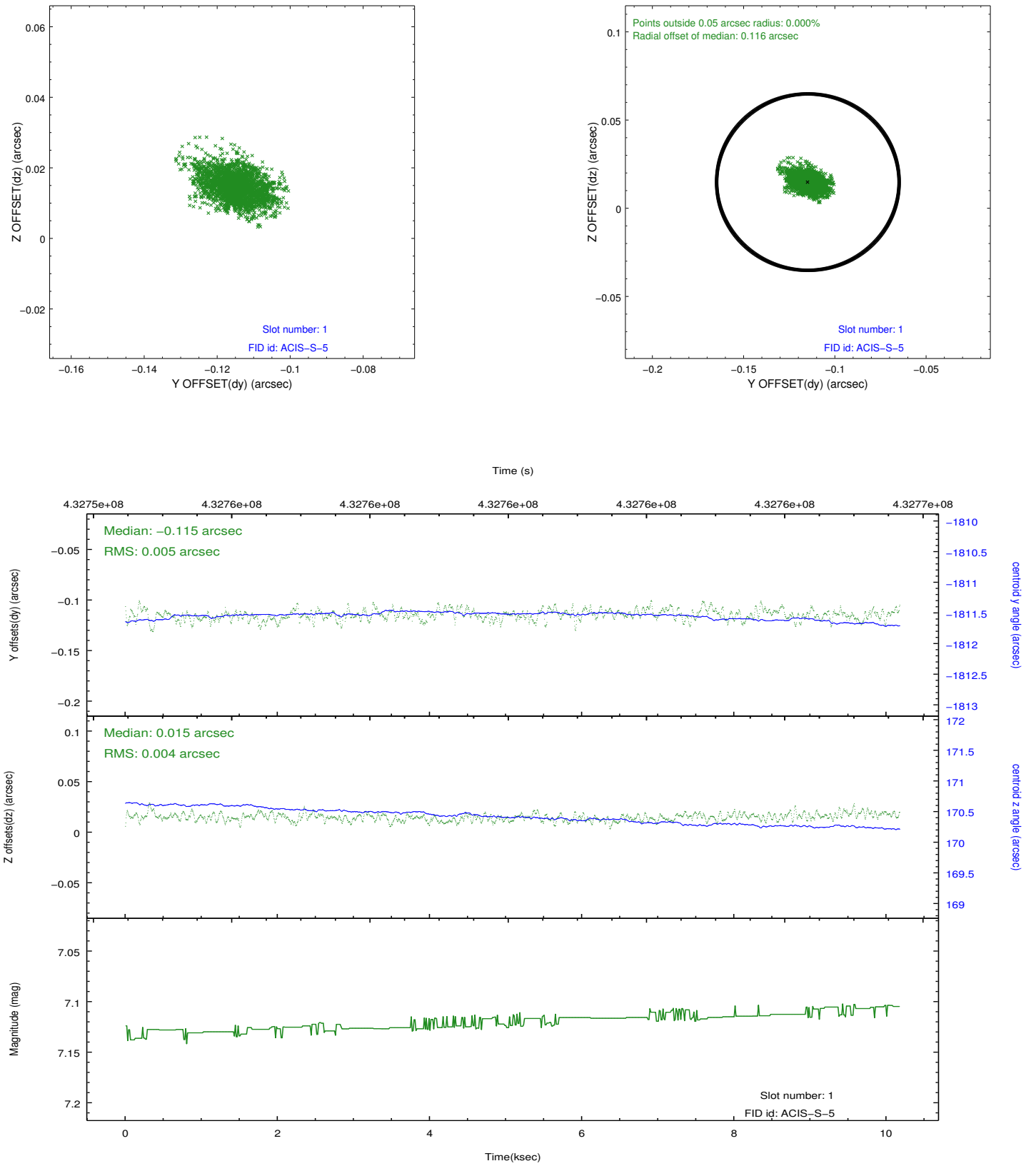
2.4.5 Slot 7



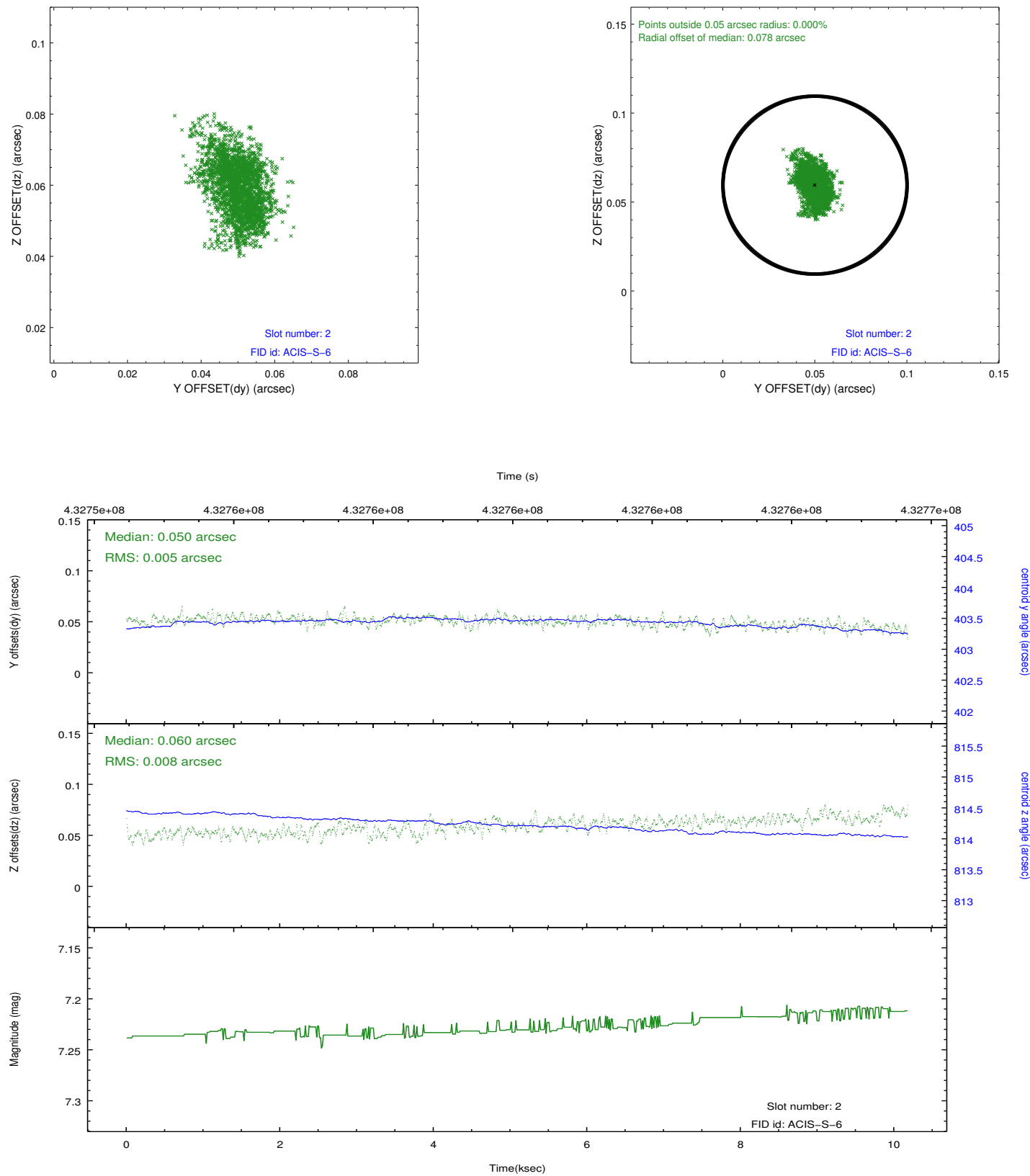
2.5.1 Slot 0



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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.07725

A.2 Comments