

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15705 - L2 Version 2
Chandra X-Ray Center

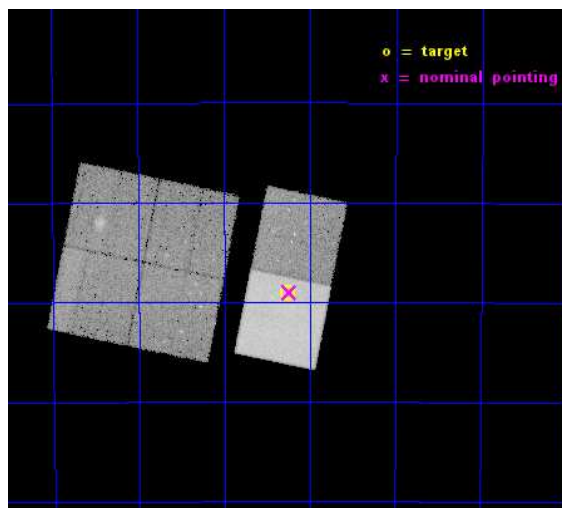
L2 Processing Date : Dec 7 2014

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1 Front

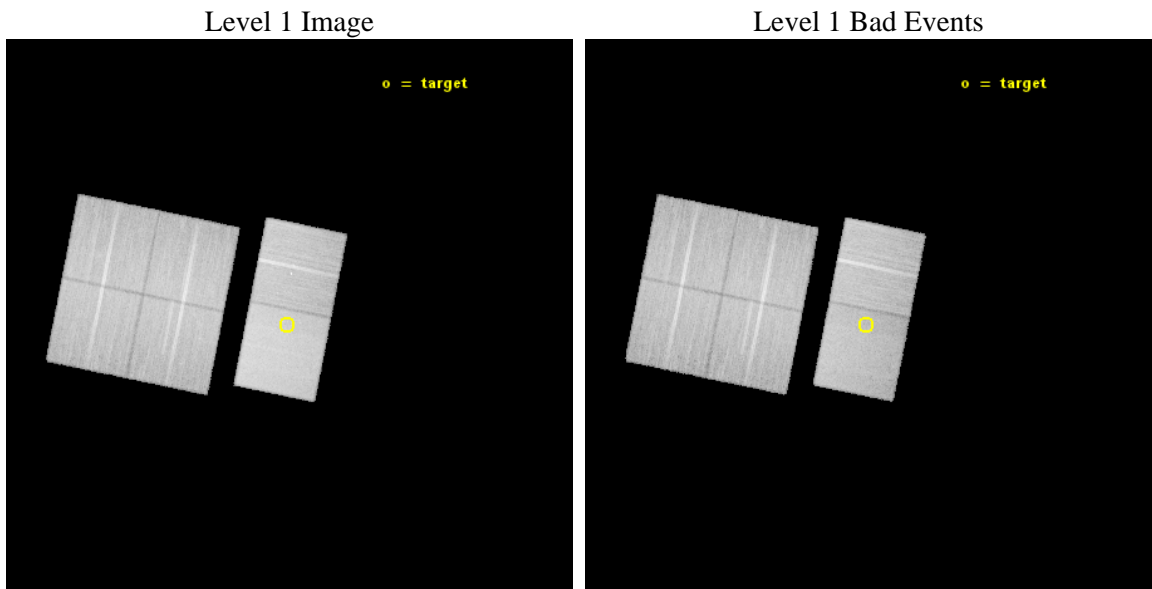
seq_num	200918	Sequence number
obs_id	15705	Observation id
title	X-rays from the most nearby brown dwarf, WISE1049-5319	Proposal ti
observer	Dr Beate Stelzer	Principal investigator
object	WISE1049-5319	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.314583	Observer's specified target RA [deg]
dec_targ	-53.318361	Observer's specified target Dec [deg]
ra_nom	162.30987740482	Nominal RA [deg]
dec_nom	-53.317273635516	Nominal Dec [deg]
roll_nom	101.41912777376	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48969.599817634	Sum of GTIs [s]
livetime	48349.51725879	Livetime [s]
ontime0	48969.599817634	Sum of GTIs [s]
ontime1	48969.448059022	Sum of GTIs [s]
ontime2	48966.248108745	Sum of GTIs [s]
ontime3	48969.530139029	Sum of GTIs [s]
ontime6	48969.571179032	Sum of GTIs [s]
ontime7	48969.599817634	Sum of GTIs [s]
l2events	257392	Number of level 2 events



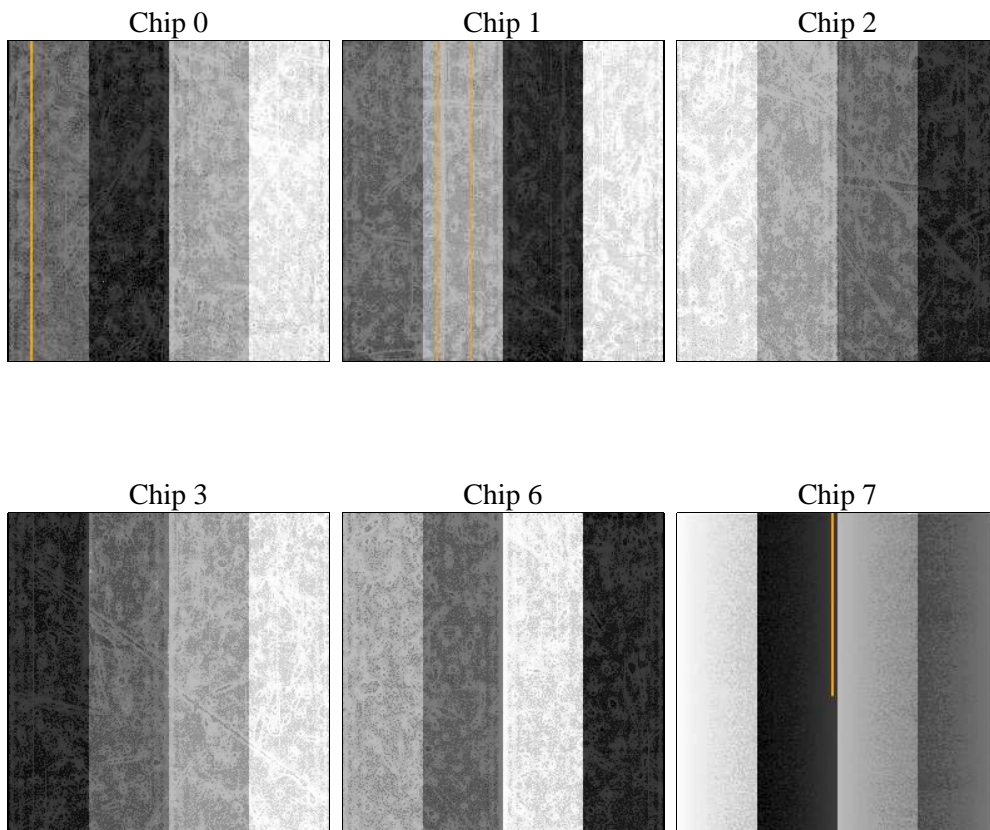
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	49000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	48969.599817634	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	48969.599817634	Sum of GTIs [s]
date	2014-12-07T21:43:50	Date and time of file creation	ontime1	48969.448059022	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	48966.248108745	Sum of GTIs [s]
			ontime3	48969.530139029	Sum of GTIs [s]
			ontime6	48969.571179032	Sum of GTIs [s]
			ontime7	48969.599817634	Sum of GTIs [s]
			l1events	1446807	Number of level 1 events

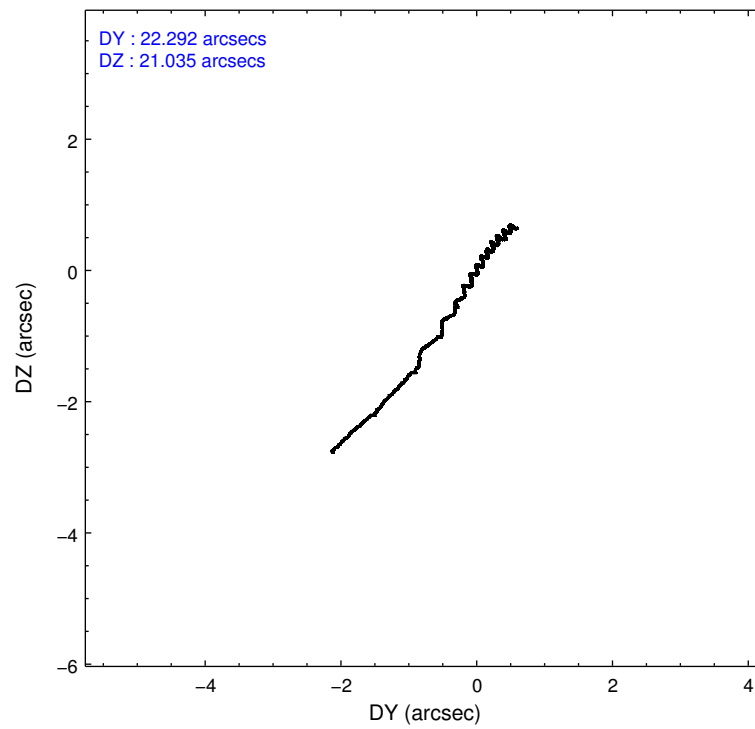
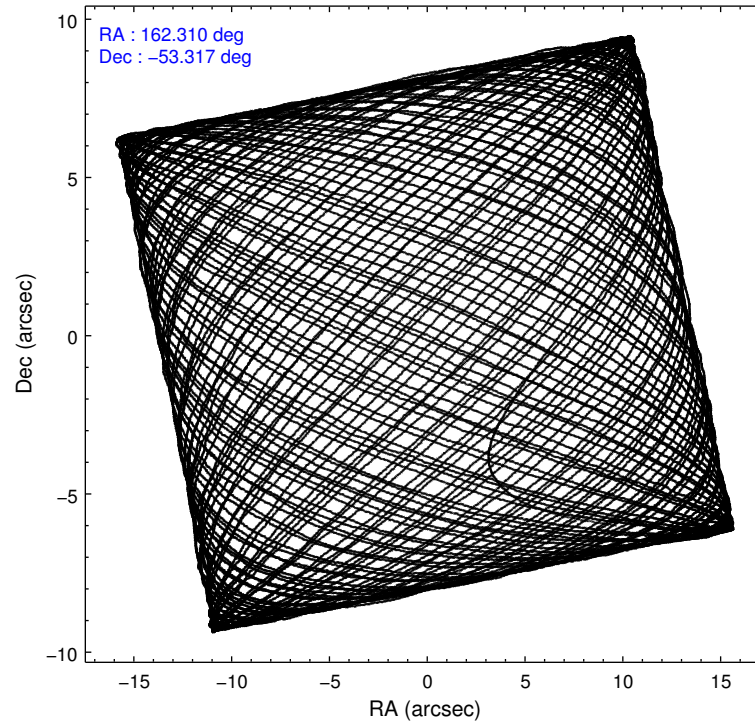
2.1.4 Events

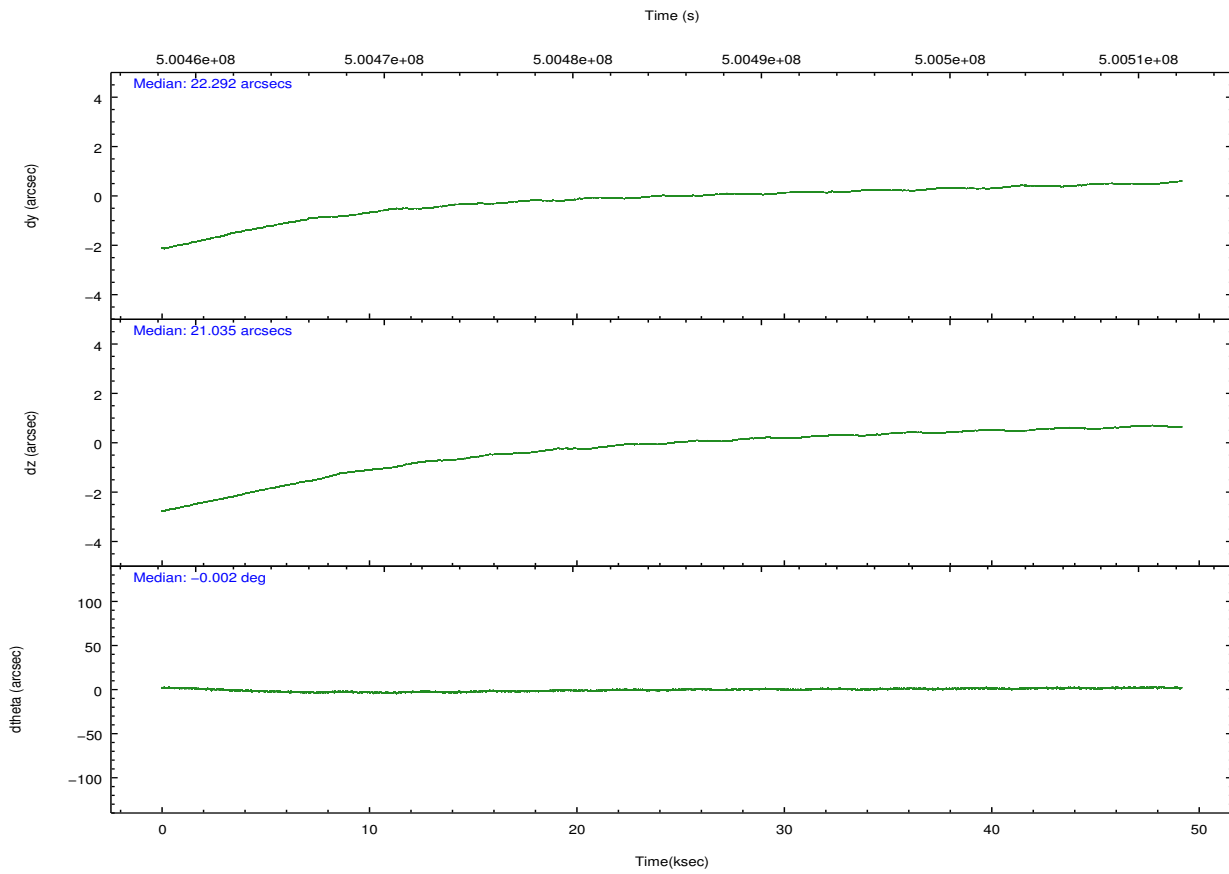
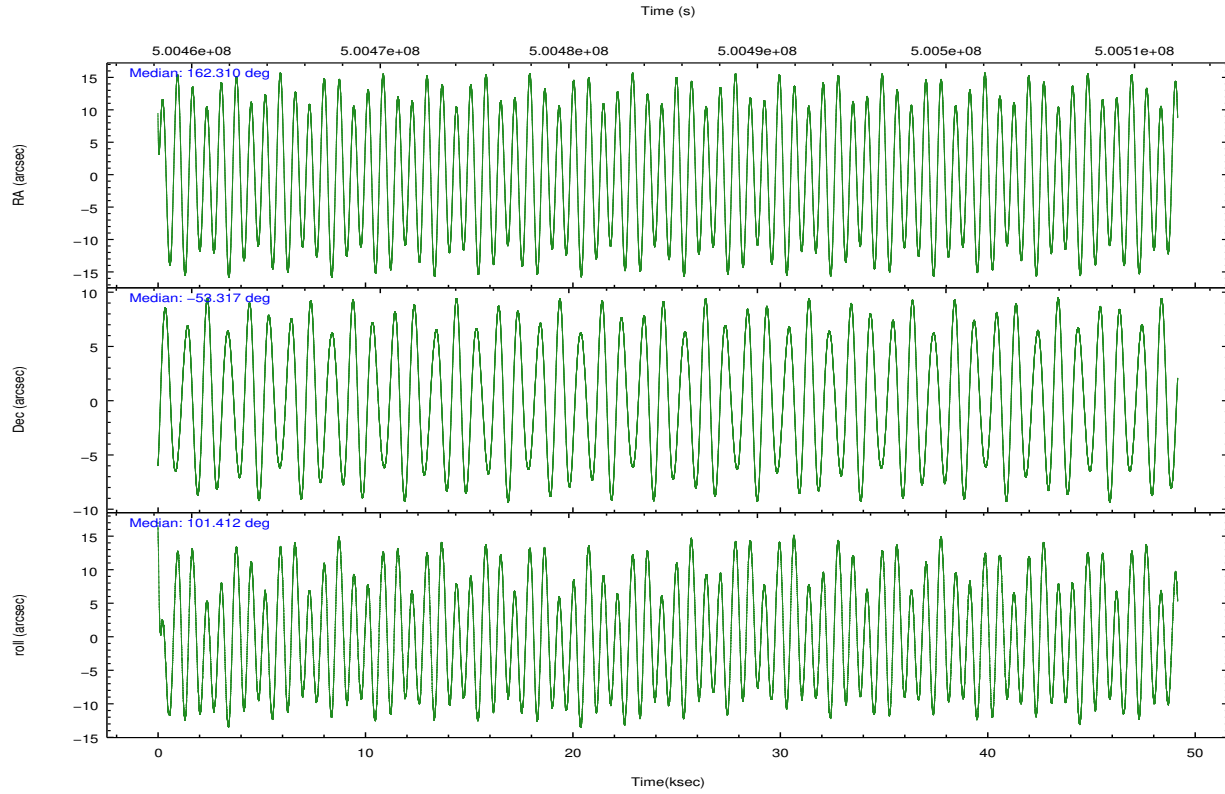
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	223015	214901	231073	215776	241866	320176	grade 0 events	10155	10573	9655	9278	10650	12523
rejected events	194030	184345	204243	189549	211877	179959		4%	4%	4%	4%	4%	3%
rejected %	87%	85%	88%	87%	87%	56%	grade 1 events	138	114	111	139	137	389
								0%	0%	0%	0%	0%	0%
							grade 2 events	7392	7528	6690	5984	6720	28961
								3%	3%	2%	2%	2%	9%
							grade 3 events	2898	2997	2641	2793	3004	11923
								1%	1%	1%	1%	1%	3%
							grade 4 events	2652	2989	2663	2754	2917	11942
								1%	1%	1%	1%	1%	3%
							grade 5 events	11089	11447	9899	12169	12459	33504
								4%	5%	4%	5%	5%	10%
							grade 6 events	5890	6471	5184	5422	6700	74888
								2%	3%	2%	2%	2%	23%
							grade 7 events	182801	172782	194230	177237	199279	146046
								81%	80%	84%	82%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	O4	Y
Observation mode	POINTING	POINTING	CCD I1 on	O5	Y
[deg] Pointing RA	162.340613	162.3098774048205	CCD I2 on	O2	Y
[deg] Pointing Dec	-53.337520	-53.317273635516	CCD I3 on	O3	Y
[deg] Pointing Roll	101.287149	101.4191277737618	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	500460827.184000	500459232.92425	CCD S5 on	N	N
Observation start date	2013-11-10T08:52:40	2013-11-10T08:27:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	500509827.184000	500510172.35205	On-chip summing requested	N	N
Observation end date	2013-11-10T22:29:20	2013-11-10T22:36:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





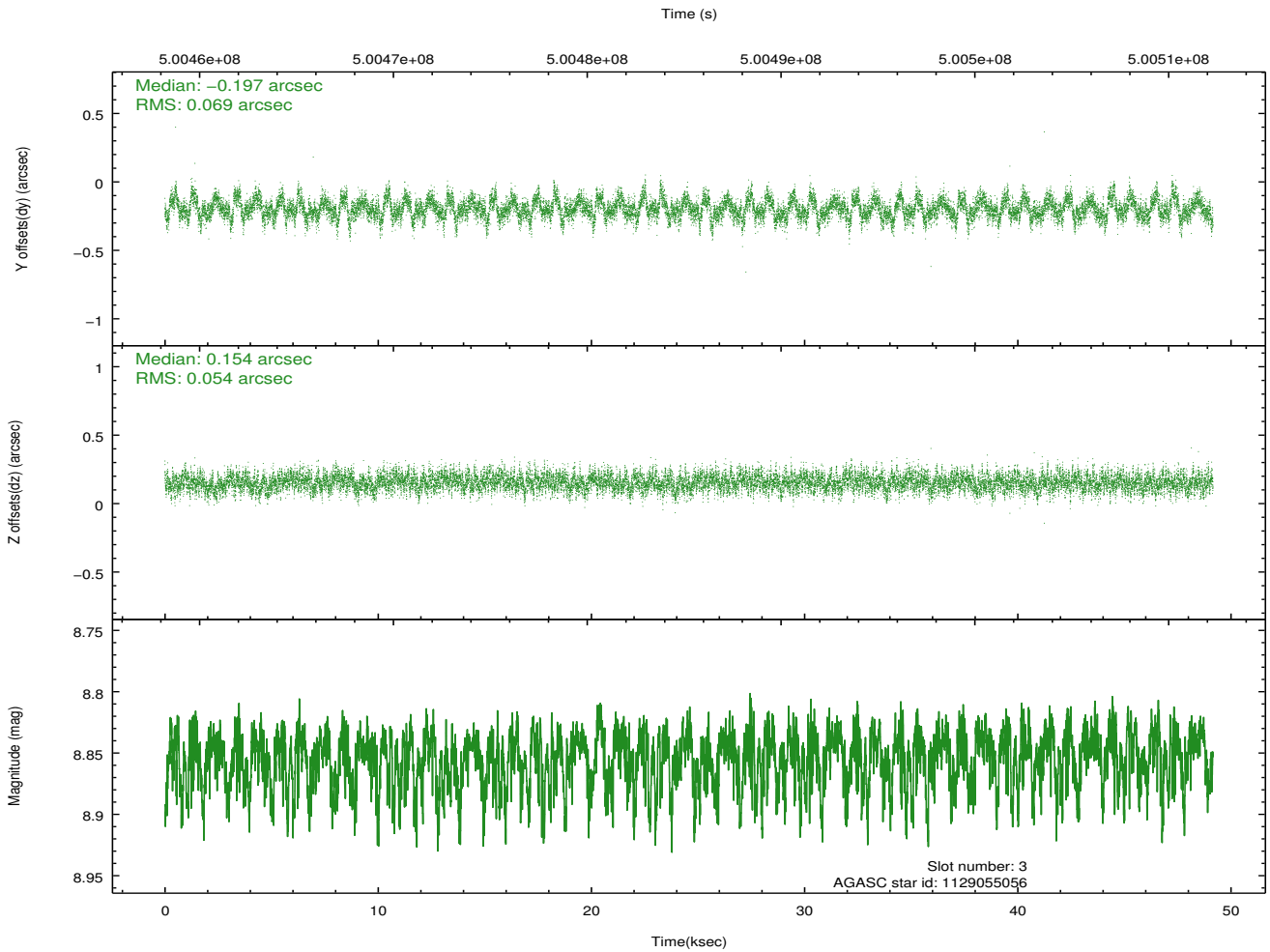
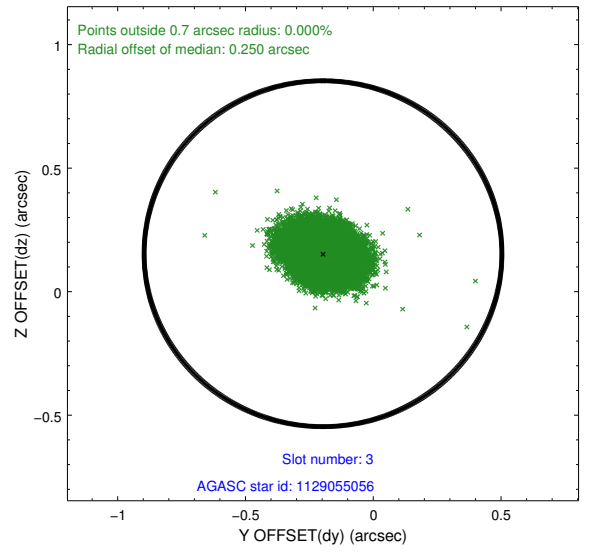
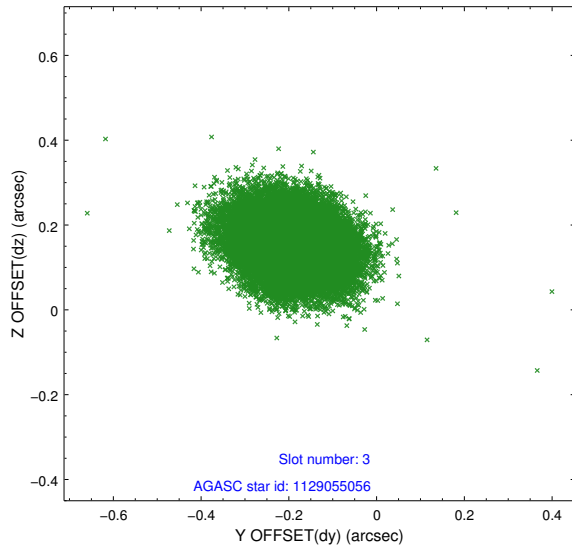
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	11991	-0.122	-0.072	0.009	0.019	0.000000	0.000000	-775.42	-1742.29
1	FID		ACIS-S-4	6.97	11990	0.166	0.057	0.009	0.022	0.000000	0.000000	2138.21	166.26
2	FID		ACIS-S-6	7.10	11991	-0.071	0.022	0.010	0.022	0.000000	0.000000	386.66	803.64
3	GUIDE	used	1129055056	8.85	23974	-0.197	0.154	0.093	0.151	162.781231	-52.816457	1649.49	-1305.97
4	GUIDE	used	1129059160	9.15	23967	-0.024	-0.152	0.123	0.199	161.999823	-53.102921	970.98	557.58
5	GUIDE	used	1129073024	9.19	23967	-0.065	-0.173	0.114	0.185	161.651680	-53.618668	-711.18	1642.48
6	GUIDE	used	1129077720	8.29	23971	0.129	-0.105	0.072	0.121	161.979799	-53.990780	-2158.41	1209.63
7	GUIDE	used	1129078744	9.18	23895	0.160	0.280	0.099	0.158	162.591859	-53.542845	-830.56	-381.67

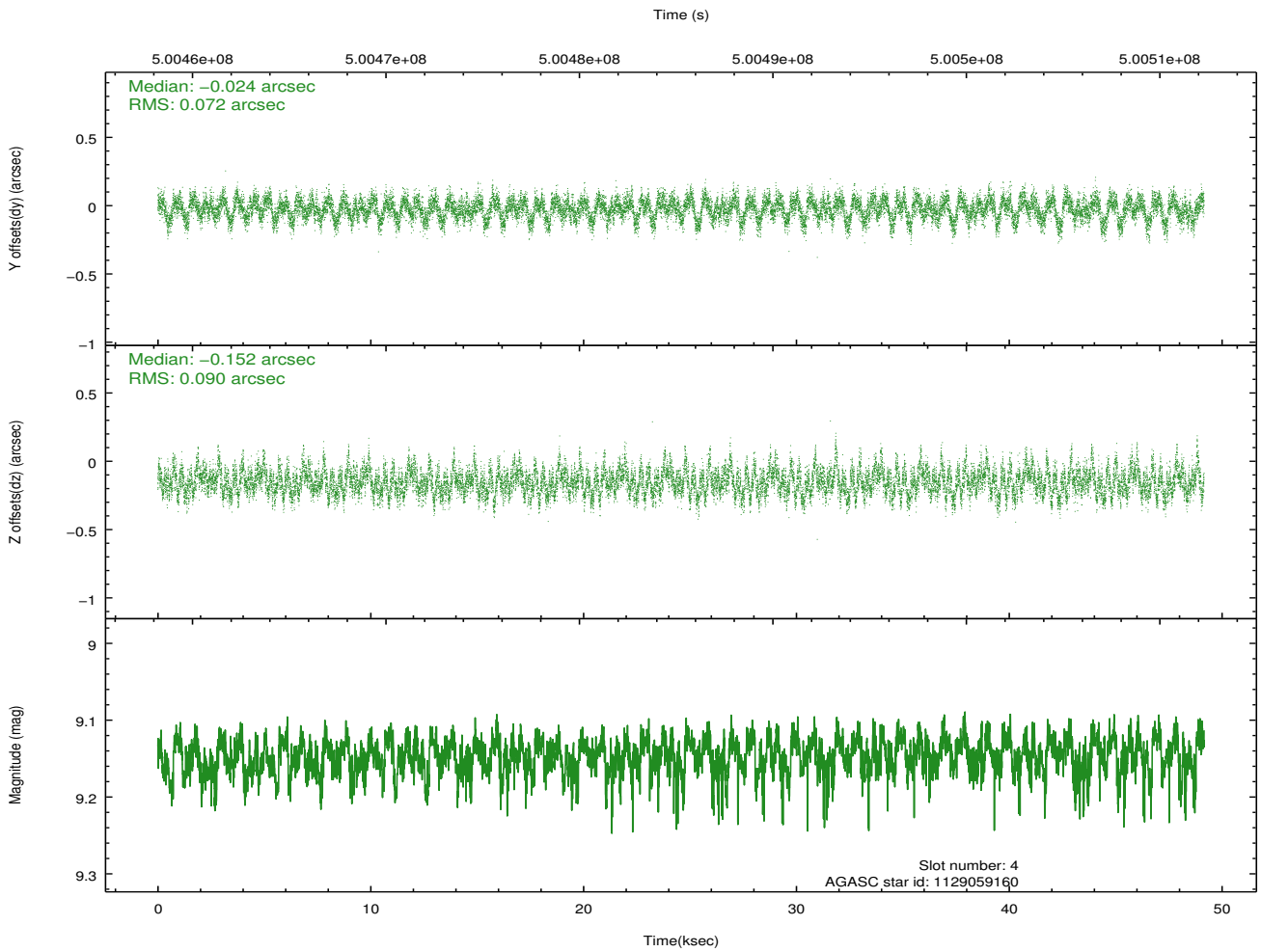
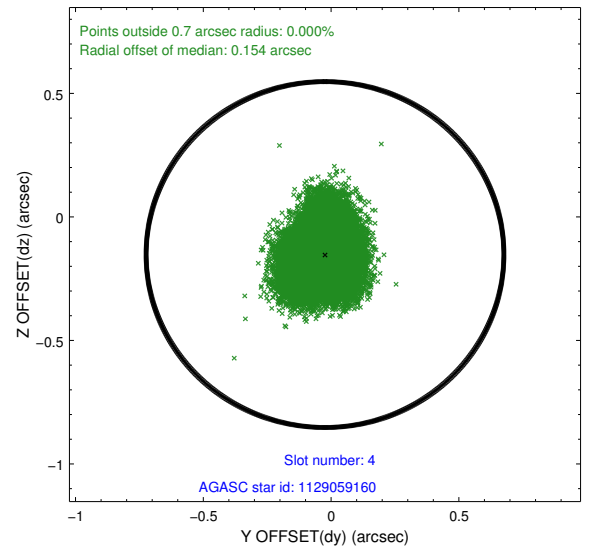
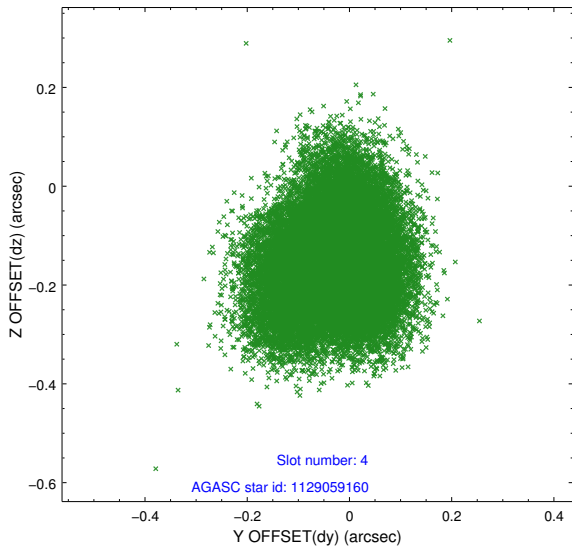
∞

2.4 Star Slots

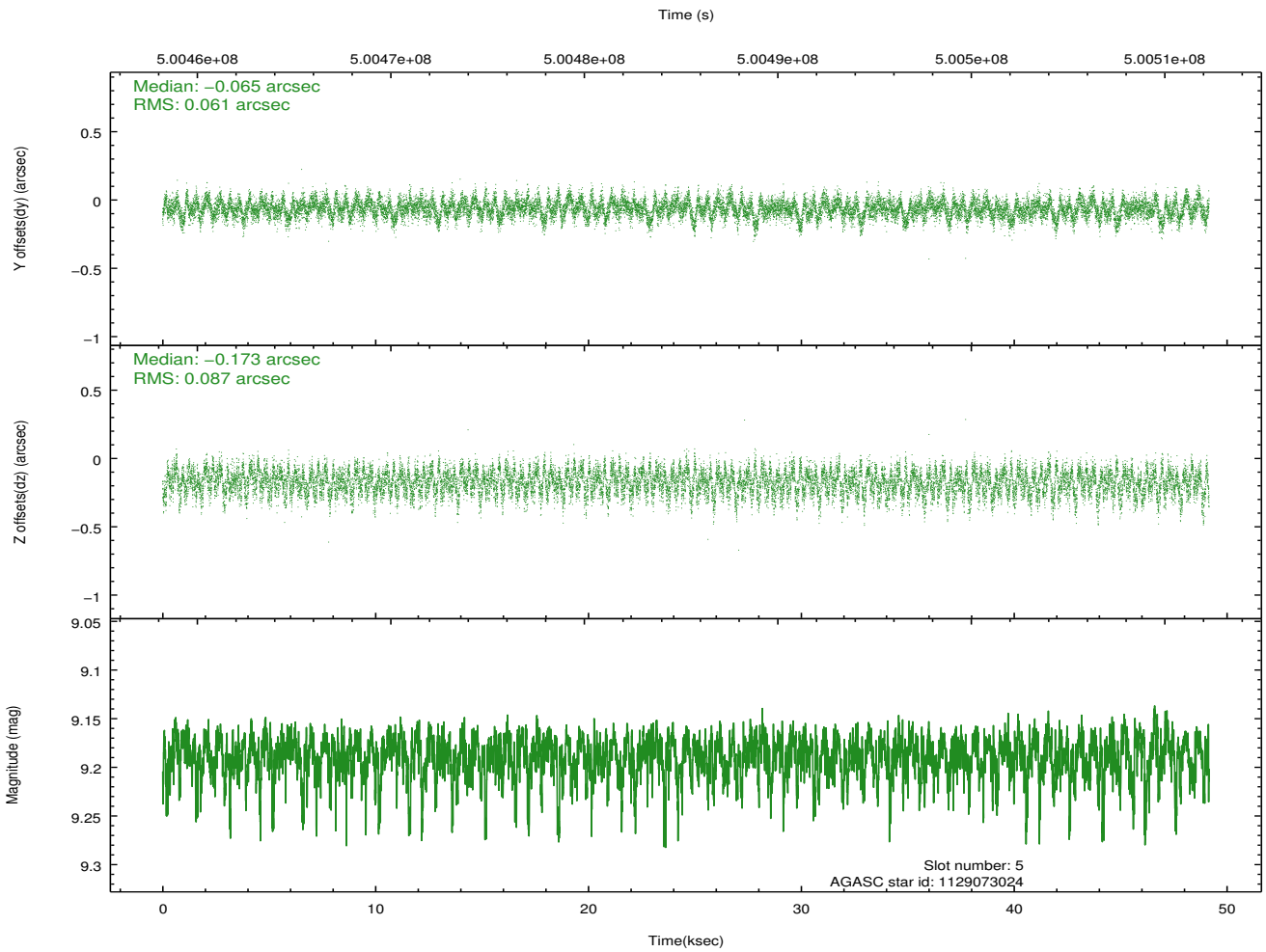
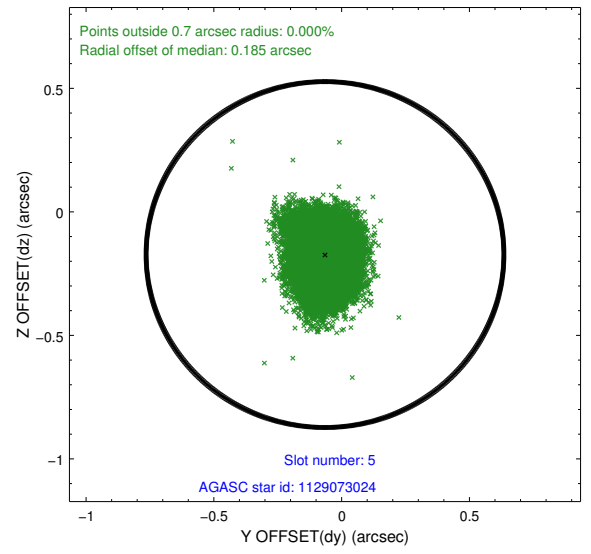
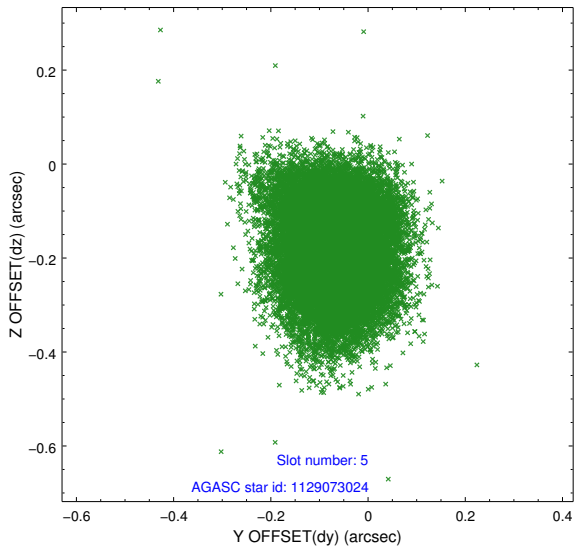
2.4.1 Slot 3



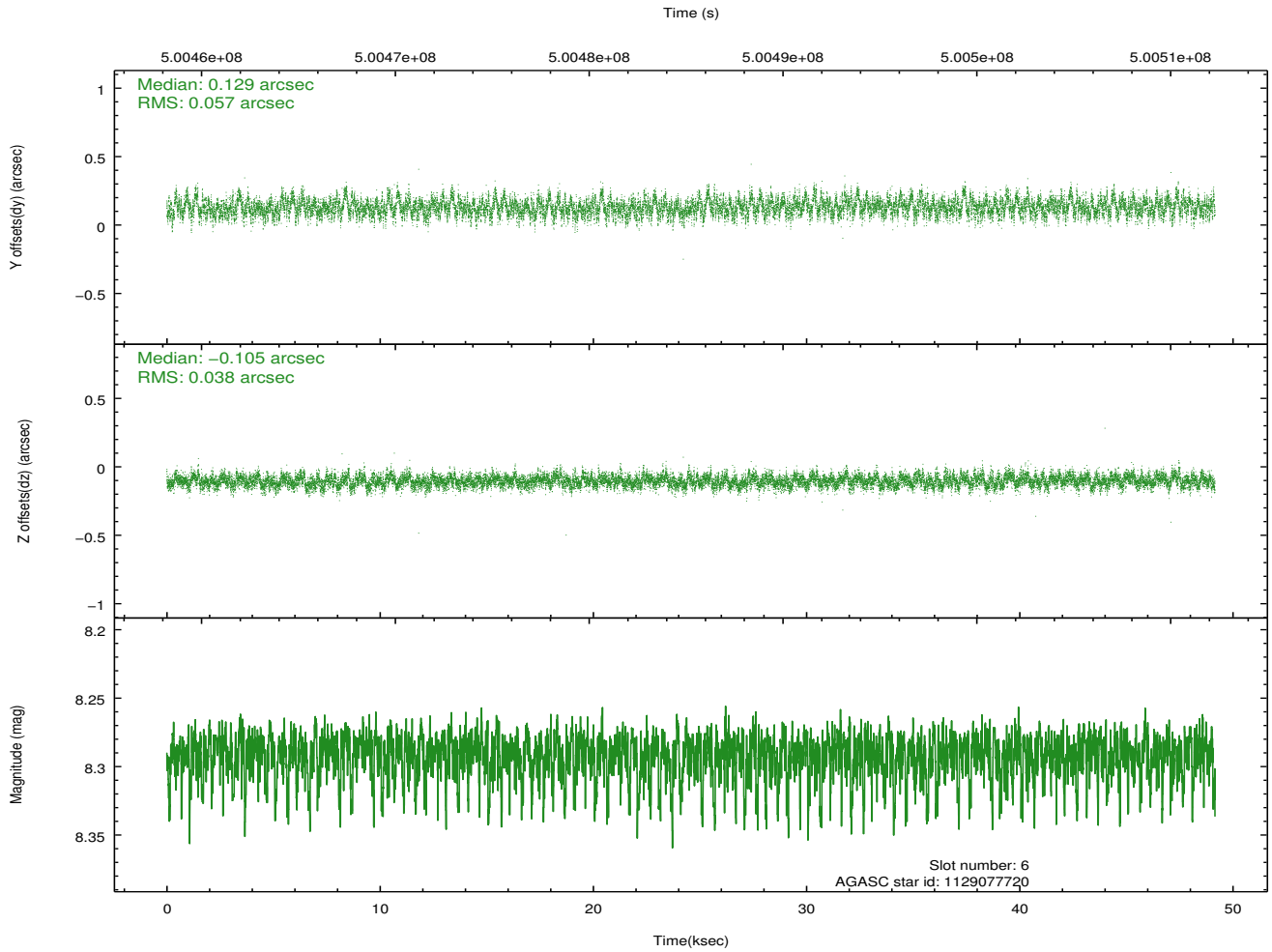
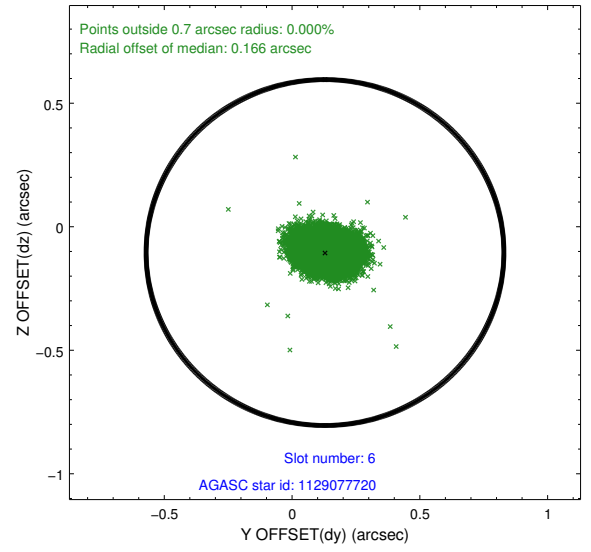
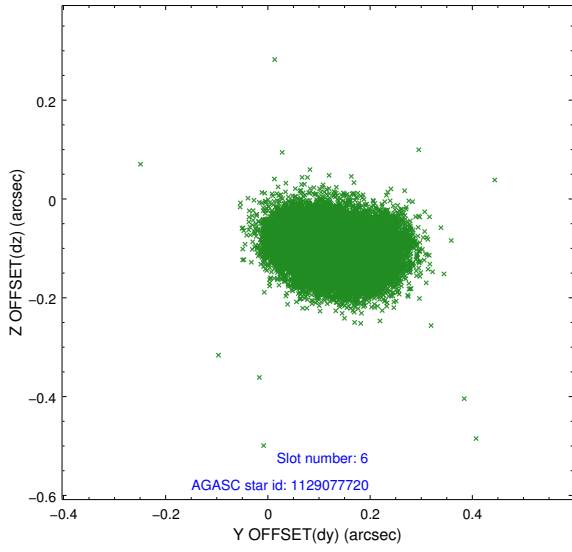
2.4.2 Slot 4



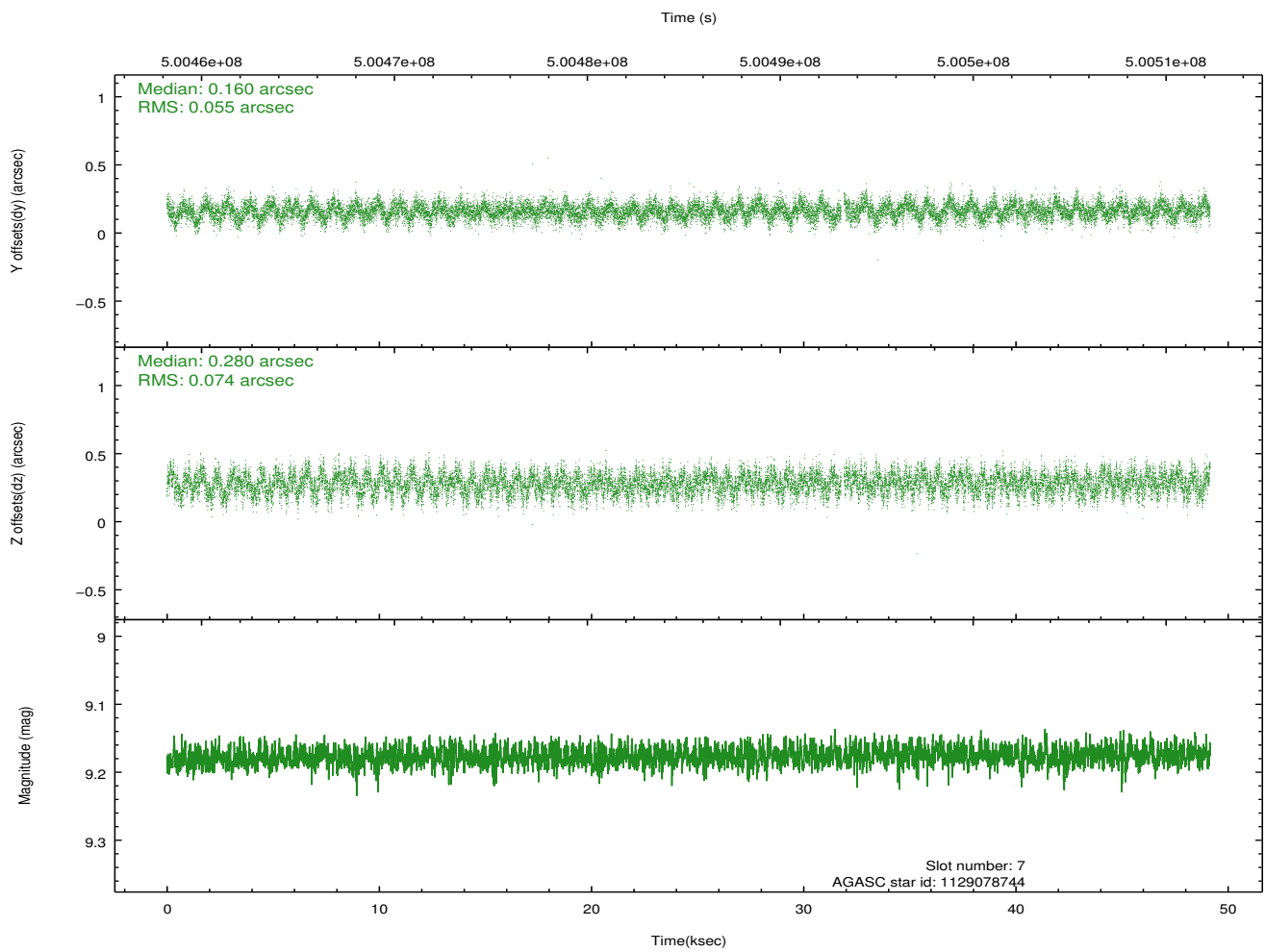
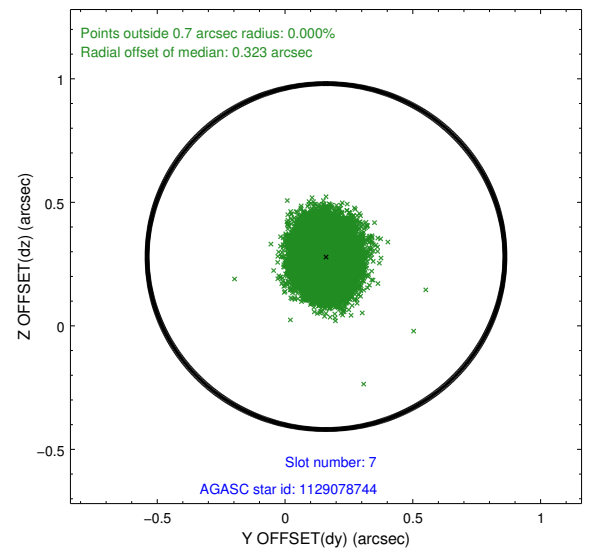
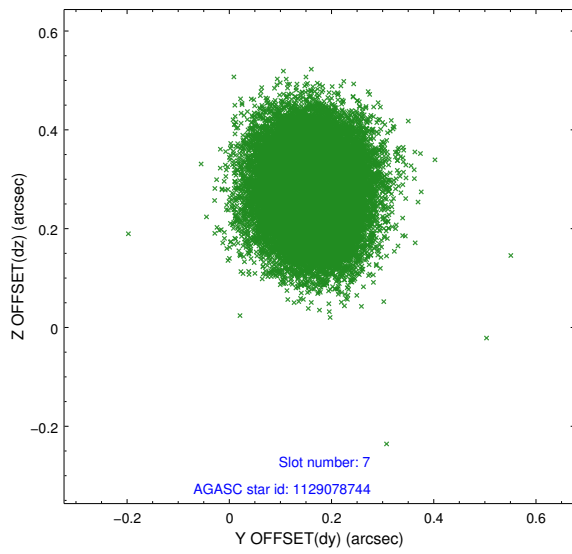
2.4.3 Slot 5



2.4.4 Slot 6

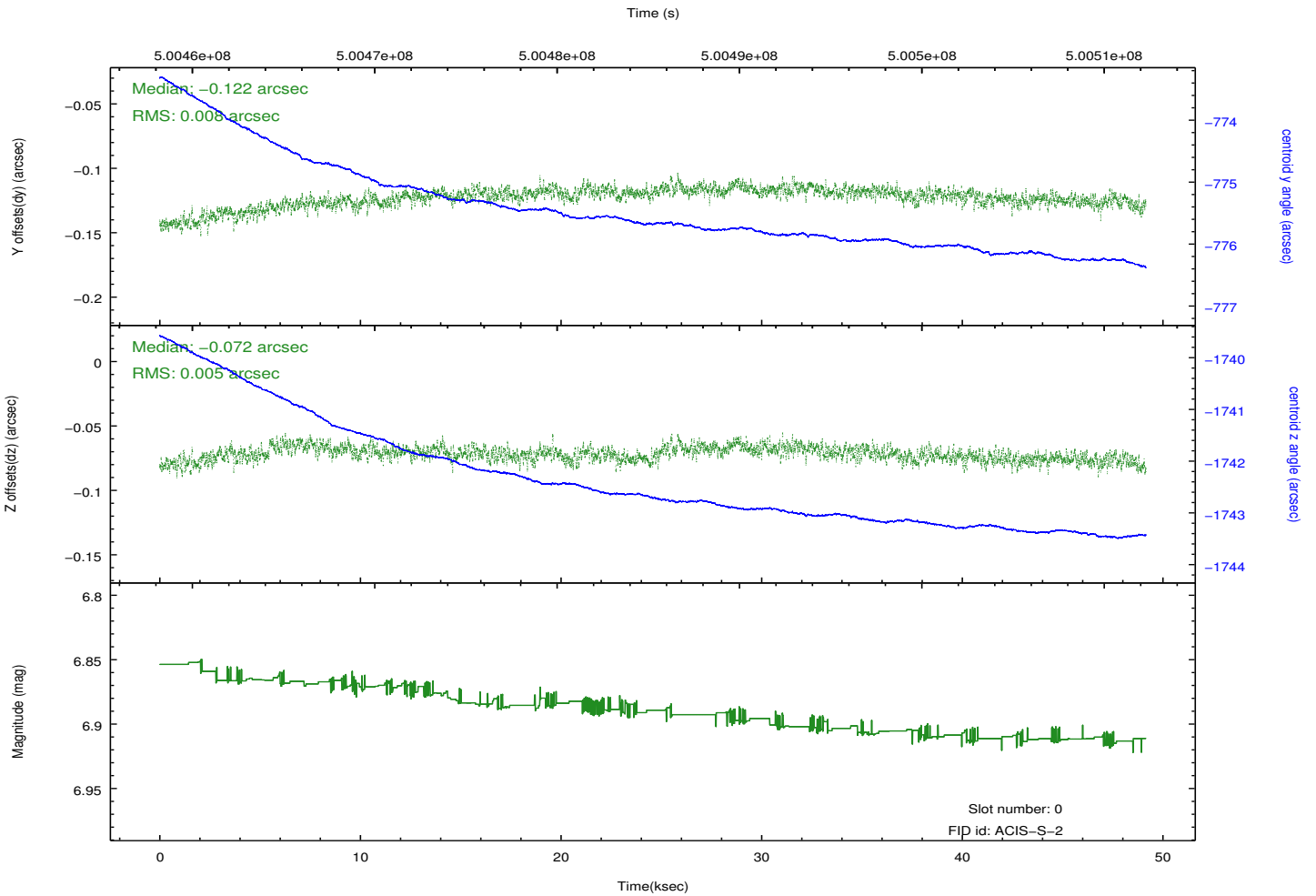
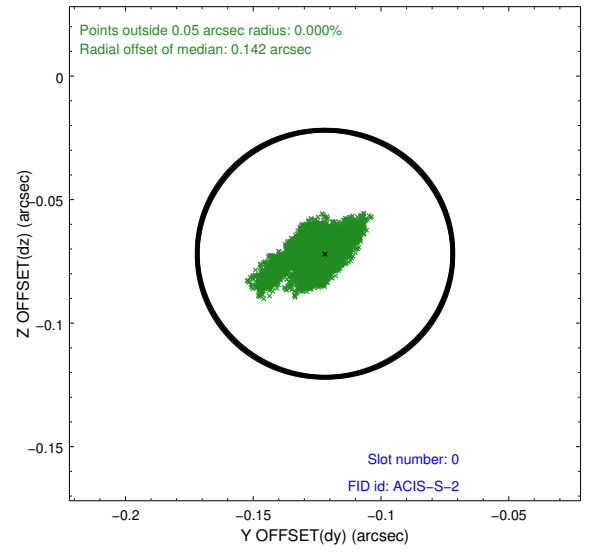
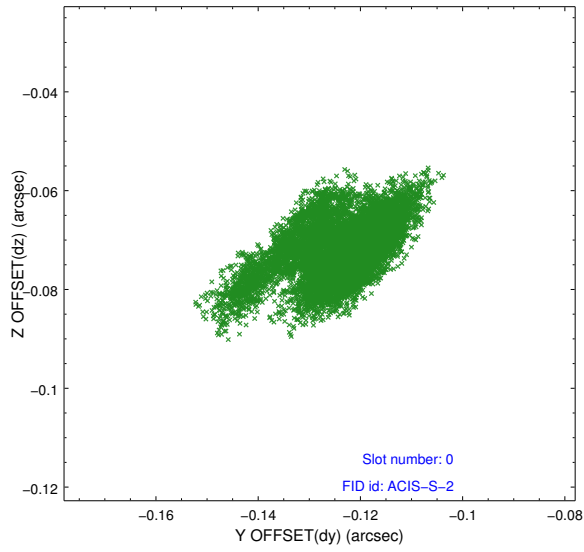


2.4.5 Slot 7

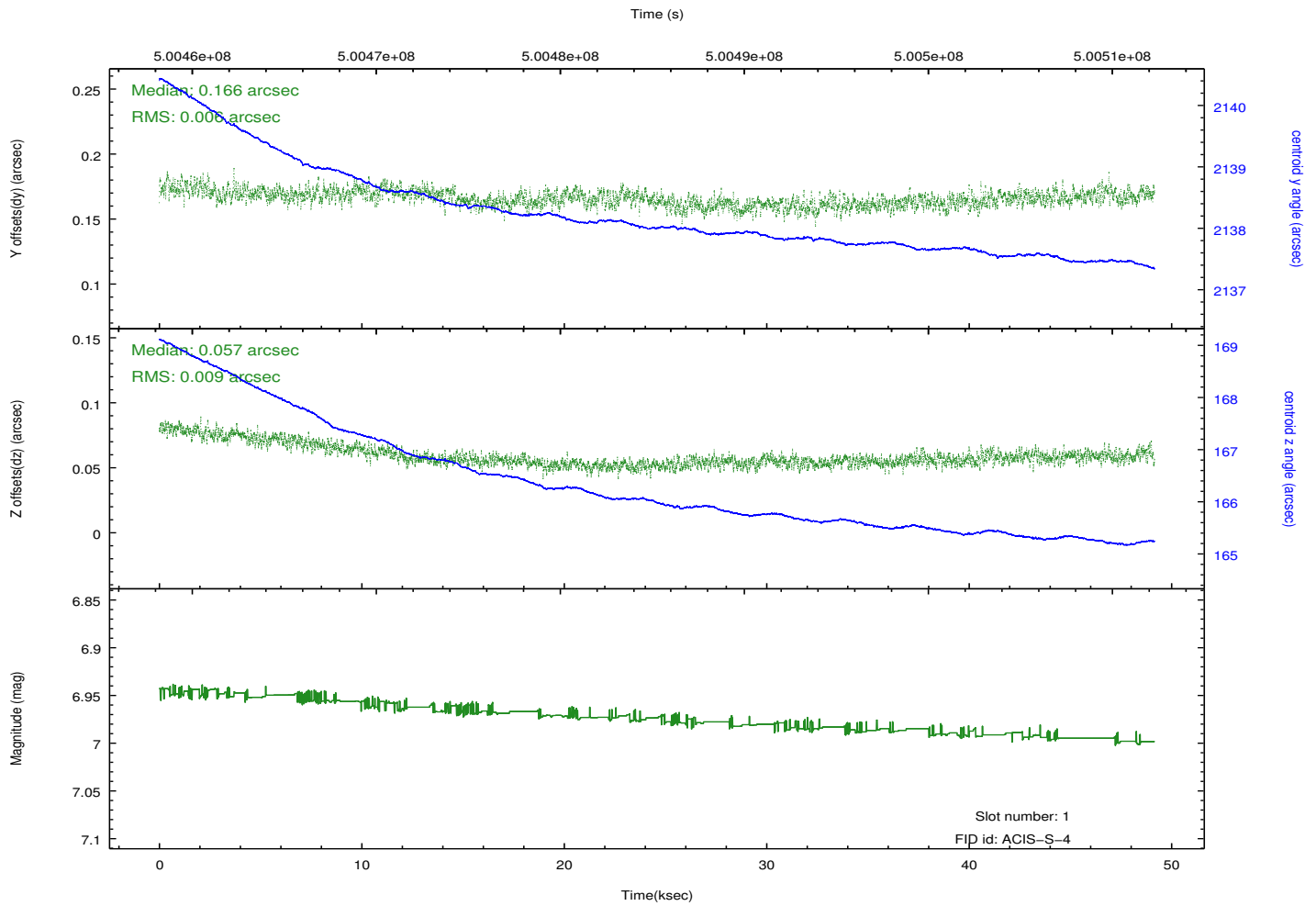
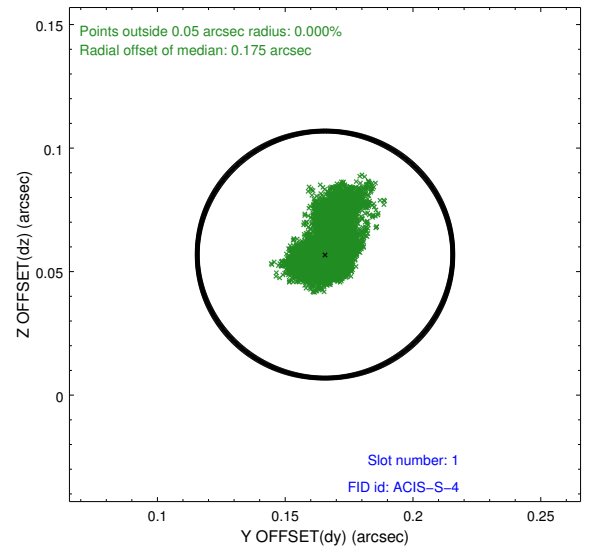
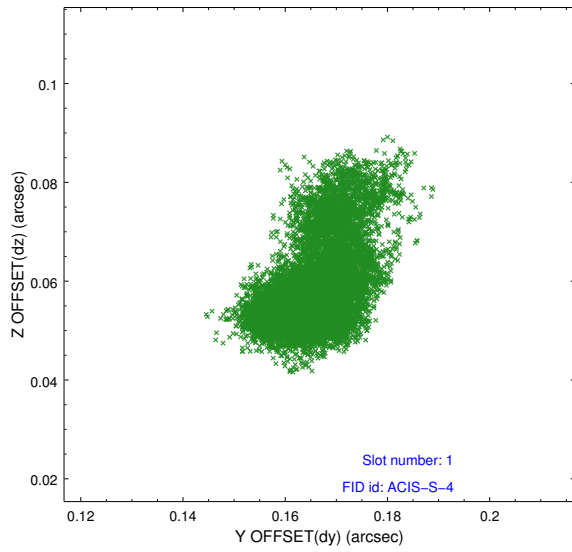


2.5 FID Slots

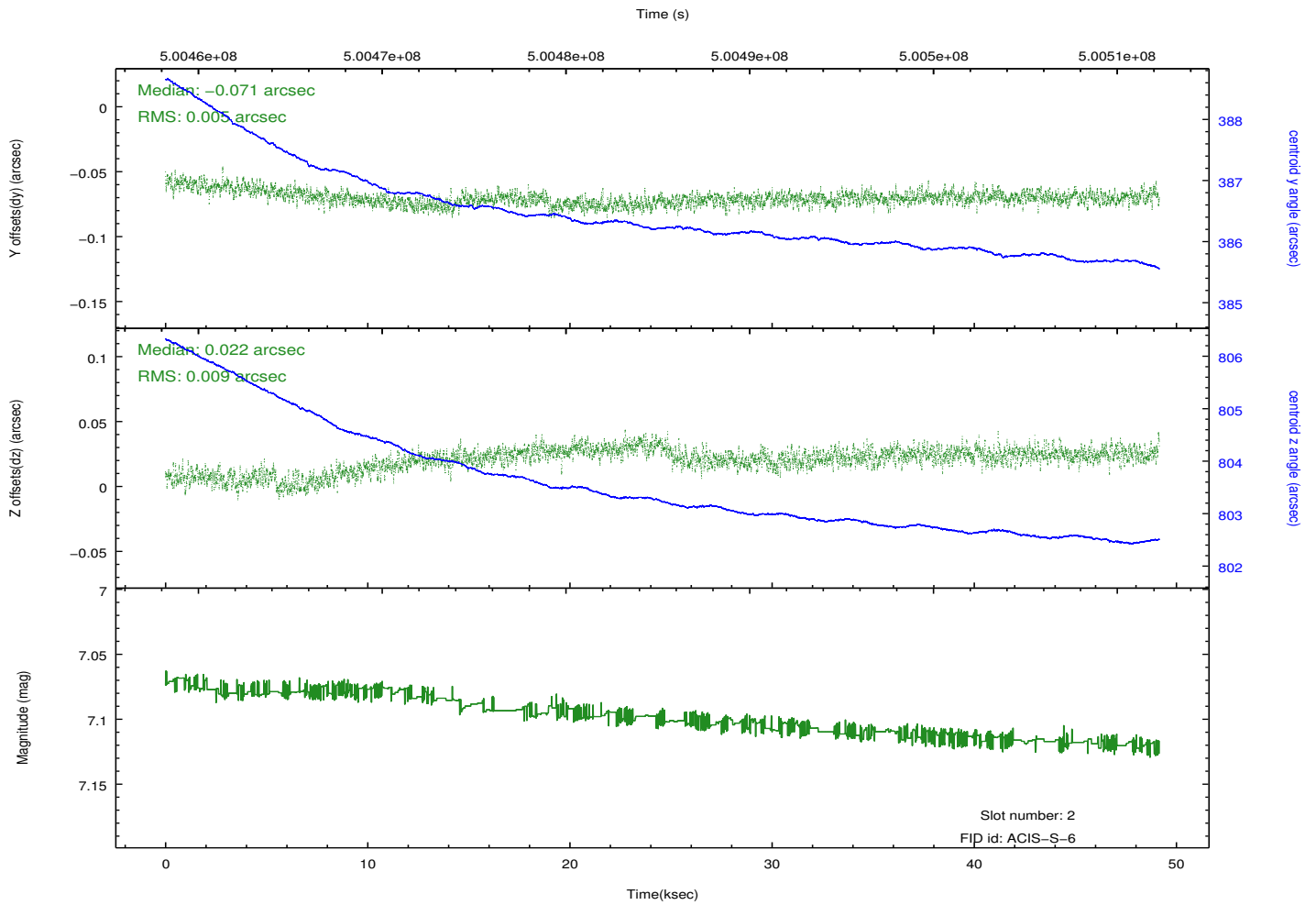
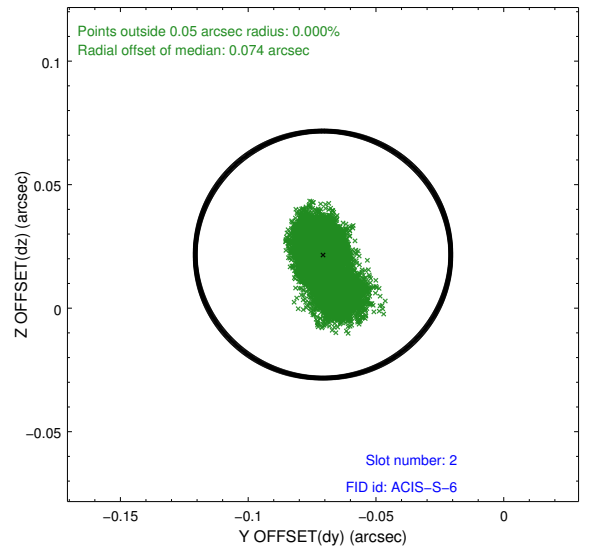
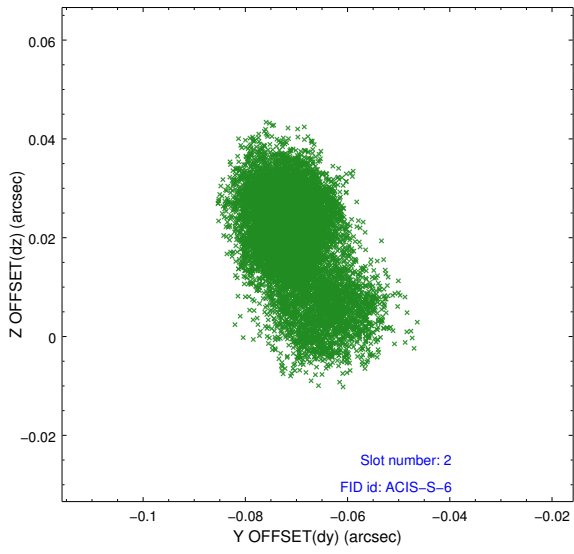
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.969599817634

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.