

V&V Reference Report

L2 ASCDS Version : 10

Observation 15263 - L2 Version 2
Chandra X-Ray Center

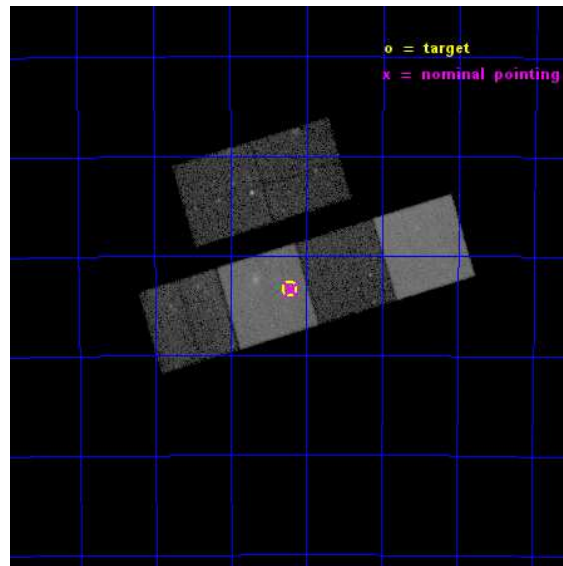
L2 Processing Date : Dec 4 2014

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1 Front

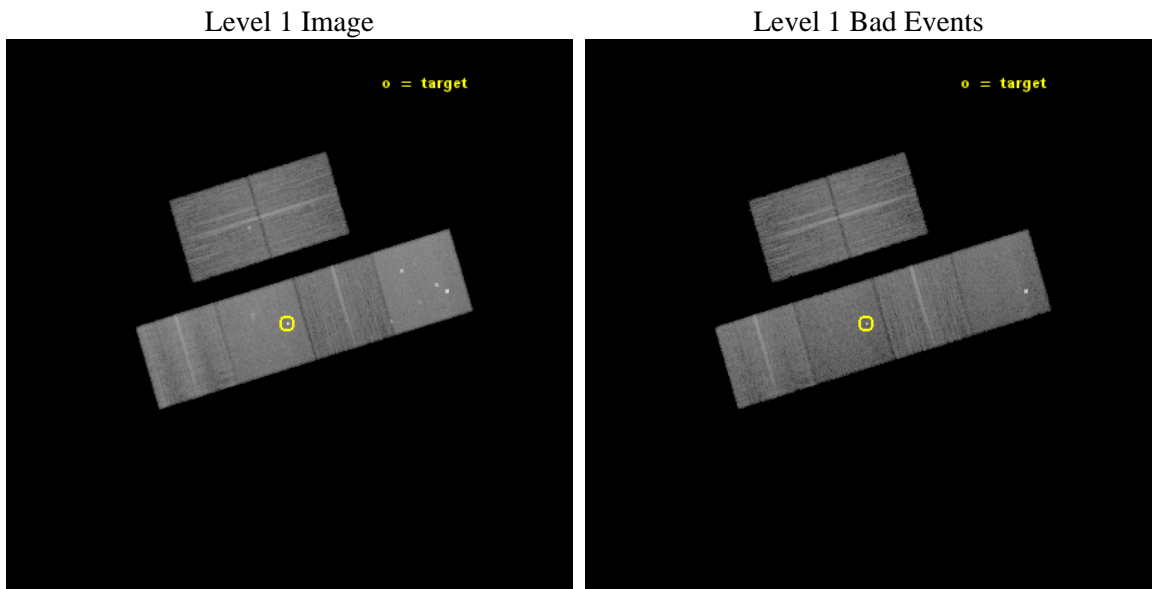
seq_num	901093	Sequence number
obs_id	15263	Observation id
title	Chandra Pilot Survey of Extrasolar Planet Candidates	Proposal titl
observer	Prof. Yohko Tsuboi	Principal investigator
object	AB Pic	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	94.80375	Observer's specified target RA [deg]
dec_targ	-58.054306	Observer's specified target Dec [deg]
ra_nom	94.799393191835	Nominal RA [deg]
dec_nom	-58.056290803414	Nominal Dec [deg]
roll_nom	163.19769845973	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28963.199892163	Sum of GTIs [s]
livetime	28596.450415583	Livetime [s]
ontime2	28963.199892163	Sum of GTIs [s]
ontime3	28963.199892163	Sum of GTIs [s]
ontime5	28963.199892163	Sum of GTIs [s]
ontime6	28963.199892163	Sum of GTIs [s]
ontime7	28963.199892163	Sum of GTIs [s]
ontime8	28959.958891988	Sum of GTIs [s]
l2events	240317	Number of level 2 events



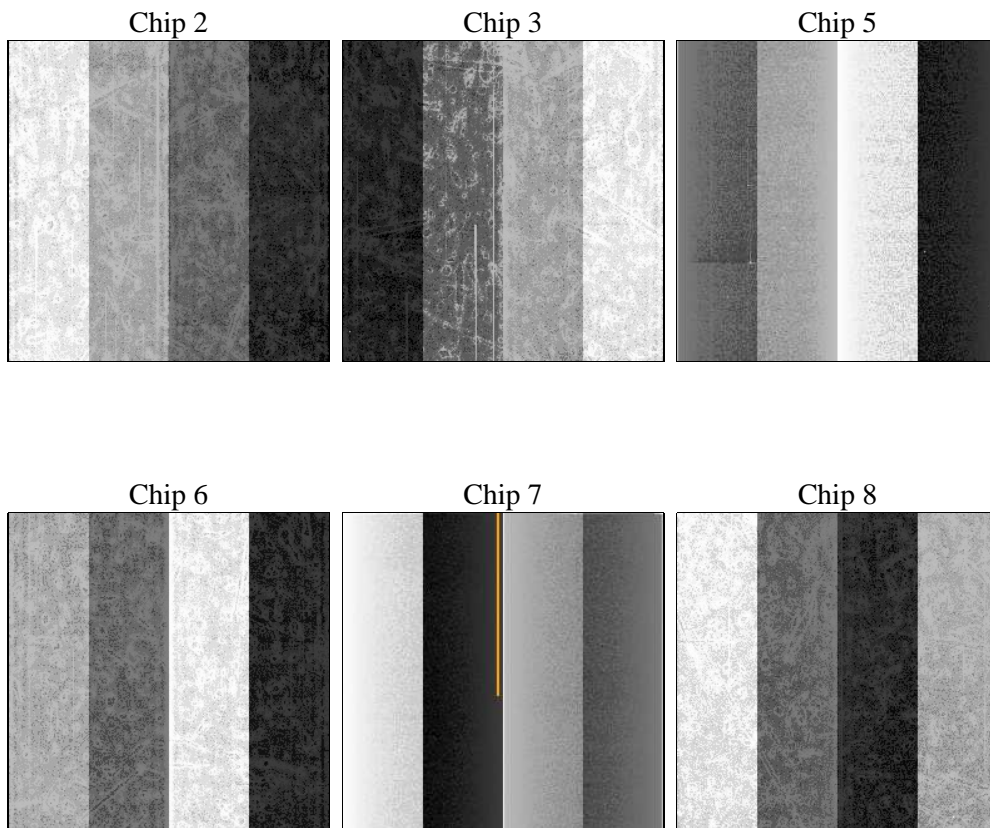
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	28963.199892163	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	28963.199892163	Sum of GTIs [s]
date	2014-12-04T19:11:59	Date and time of file creation	ontime3	28963.199892163	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	28963.199892163	Sum of GTIs [s]
			ontime6	28963.199892163	Sum of GTIs [s]
			ontime7	28963.199892163	Sum of GTIs [s]
			ontime8	28959.958891988	Sum of GTIs [s]
			l1events	974612	Number of level 1 events

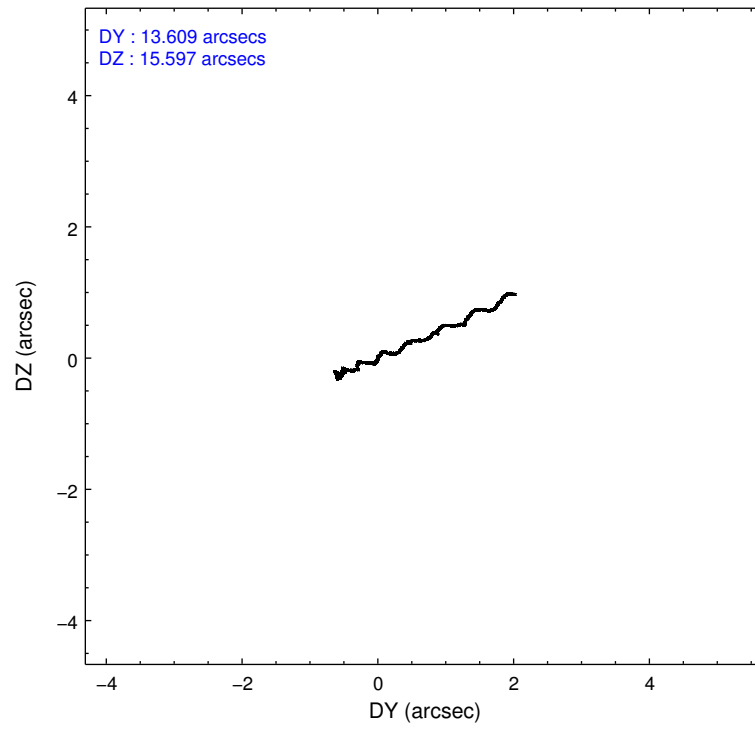
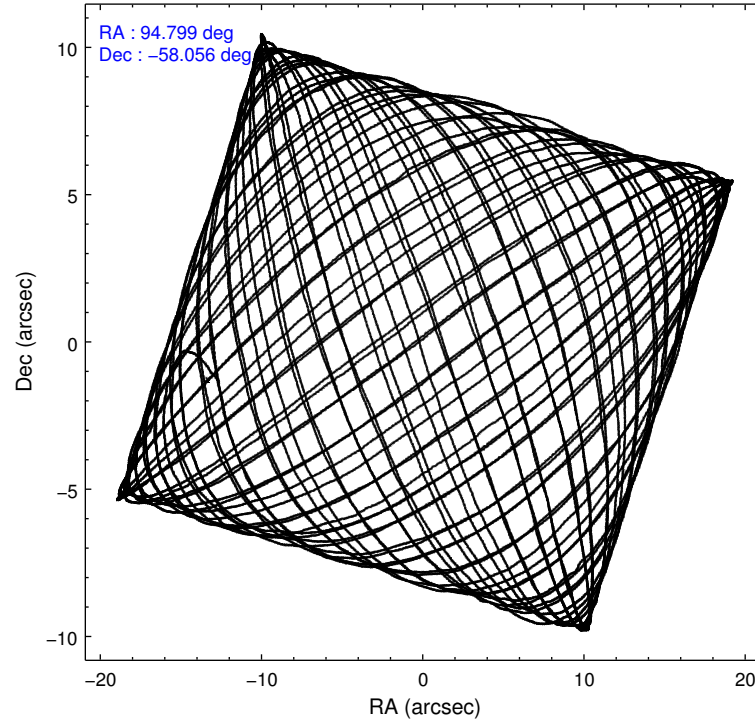
2.1.4 Events

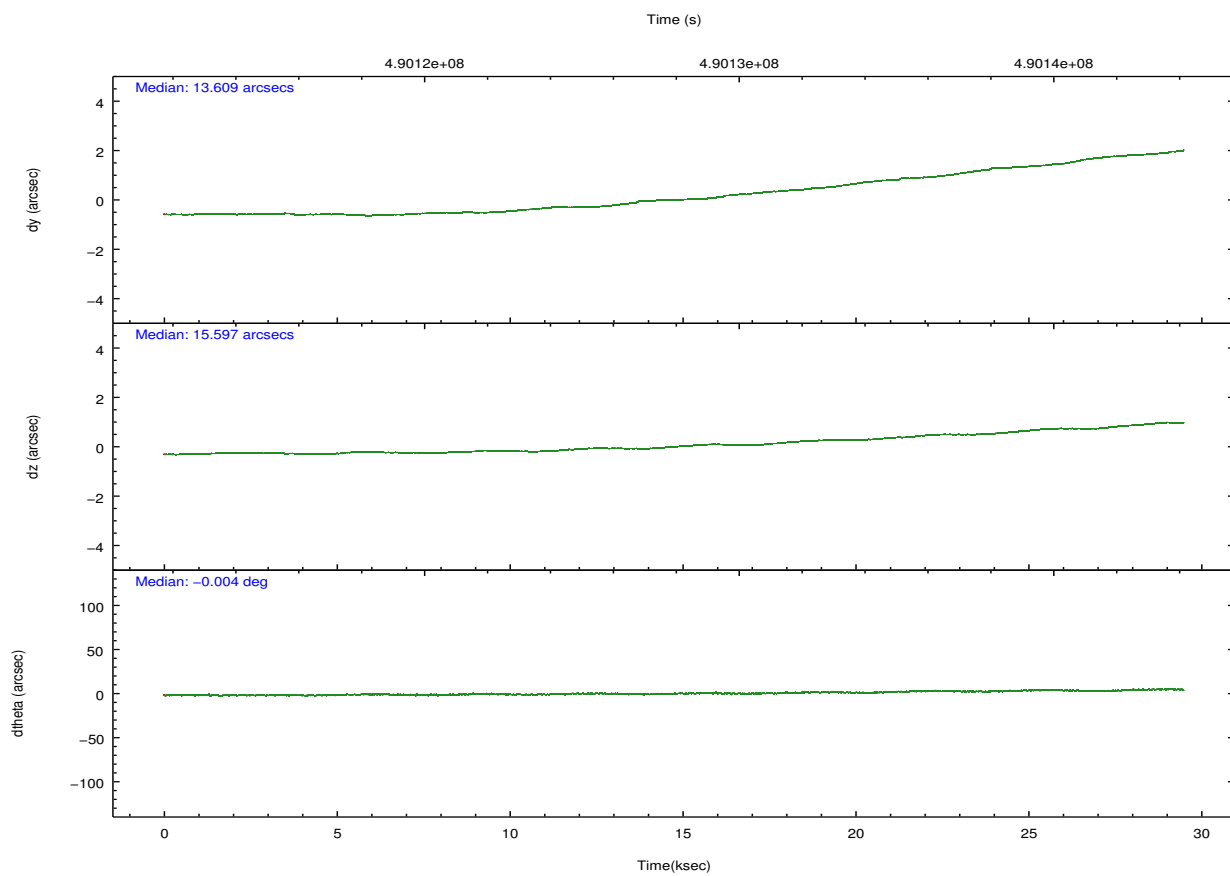
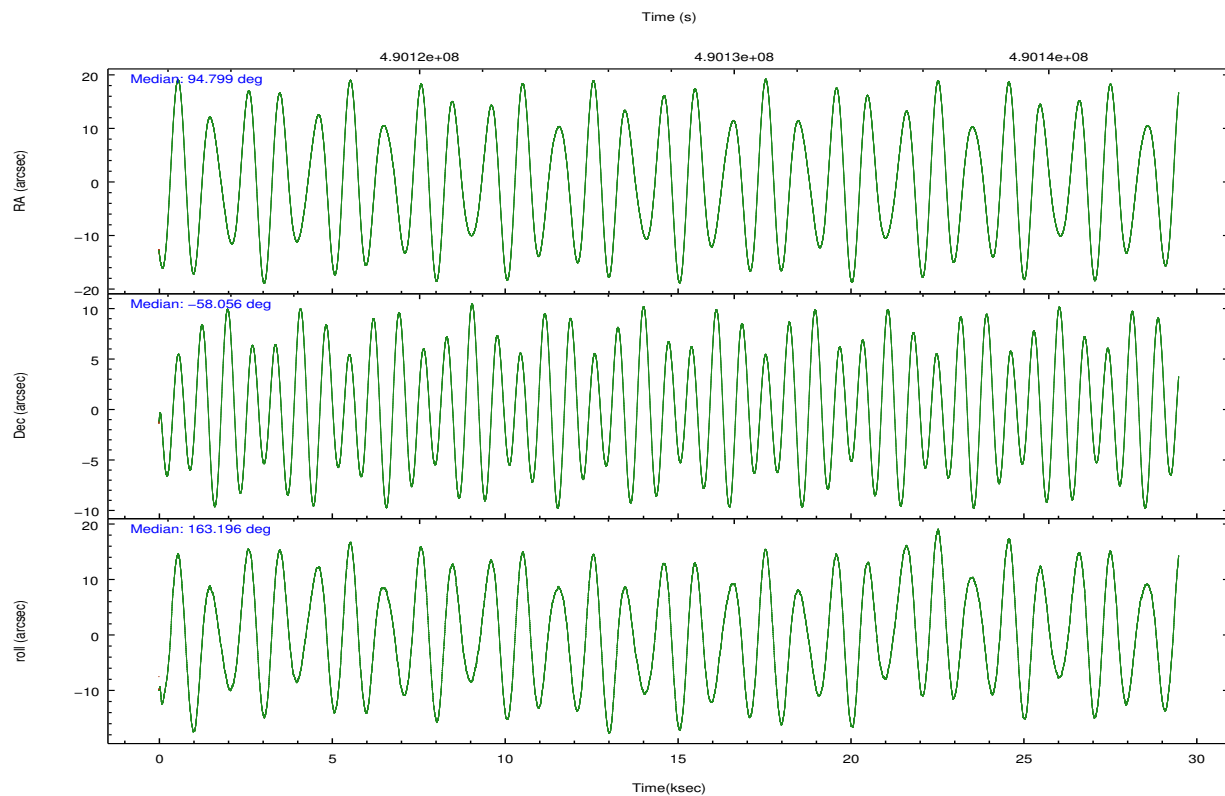
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	129945	122490	226498	133083	189381	173215	grade 0 events	5433	5723	12670	5601	9467	14038
rejected events	114860	107291	117073	116750	101880	126476		4%	4%	5%	4%	4%	8%
rejected %	88%	87%	51%	87%	53%	73%	grade 1 events	84	82	345	81	398	126
								0%	0%	0%	0%	0%	0%
							grade 2 events	3656	3273	33966	3677	18228	11009
								2%	2%	14%	2%	9%	6%
							grade 3 events	1531	1564	3630	1666	7800	4861
								1%	1%	1%	1%	4%	2%
							grade 4 events	1465	1553	3399	1634	7856	4553
								1%	1%	1%	1%	4%	2%
							grade 5 events	5852	6749	16317	6855	19306	9915
								4%	5%	7%	5%	10%	5%
							grade 6 events	3001	3087	55766	3755	44157	12310
								2%	2%	24%	2%	23%	7%
							grade 7 events	108923	100459	100405	109814	82169	116403
								83%	82%	44%	82%	43%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	94.849548	94.79939319183546	CCD I2 on	O1	Y
[deg] Pointing Dec	-58.049677	-58.05629080341444	CCD I3 on	O2	Y
[deg] Pointing Roll	163.083631	163.1976984597323	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	490113660.184000	490112546.67176	CCD S5 on	N	N
Observation start date	2013-07-13T14:39:53	2013-07-13T14:22:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	490142660.184000	490143115.24842	On-chip summing requested	N	N
Observation end date	2013-07-13T22:43:13	2013-07-13T22:51:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



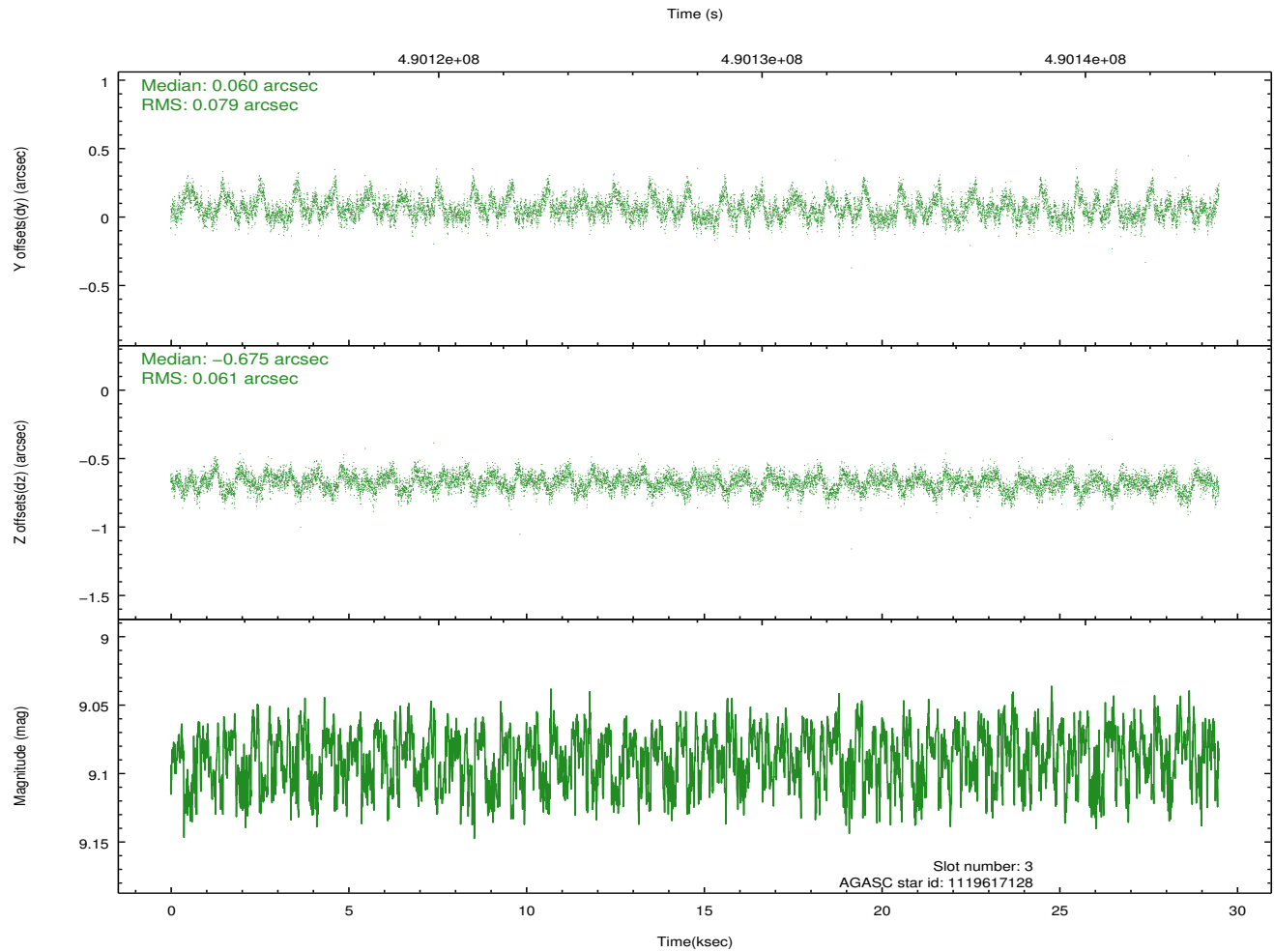
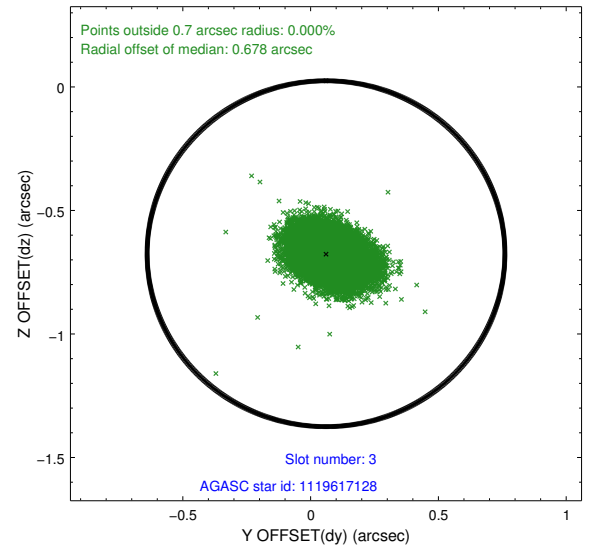
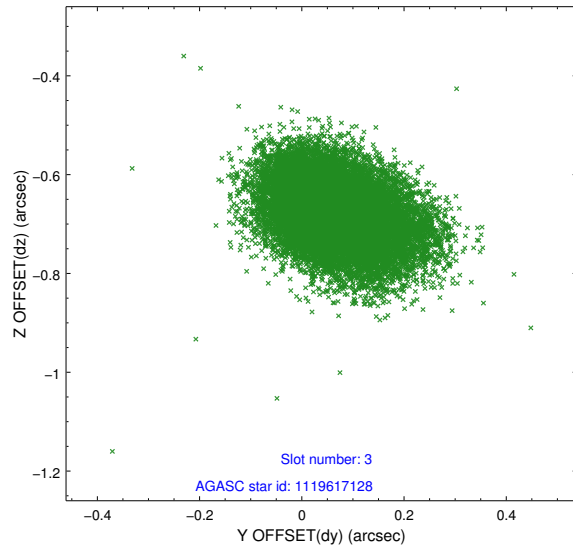


Slot Statistics

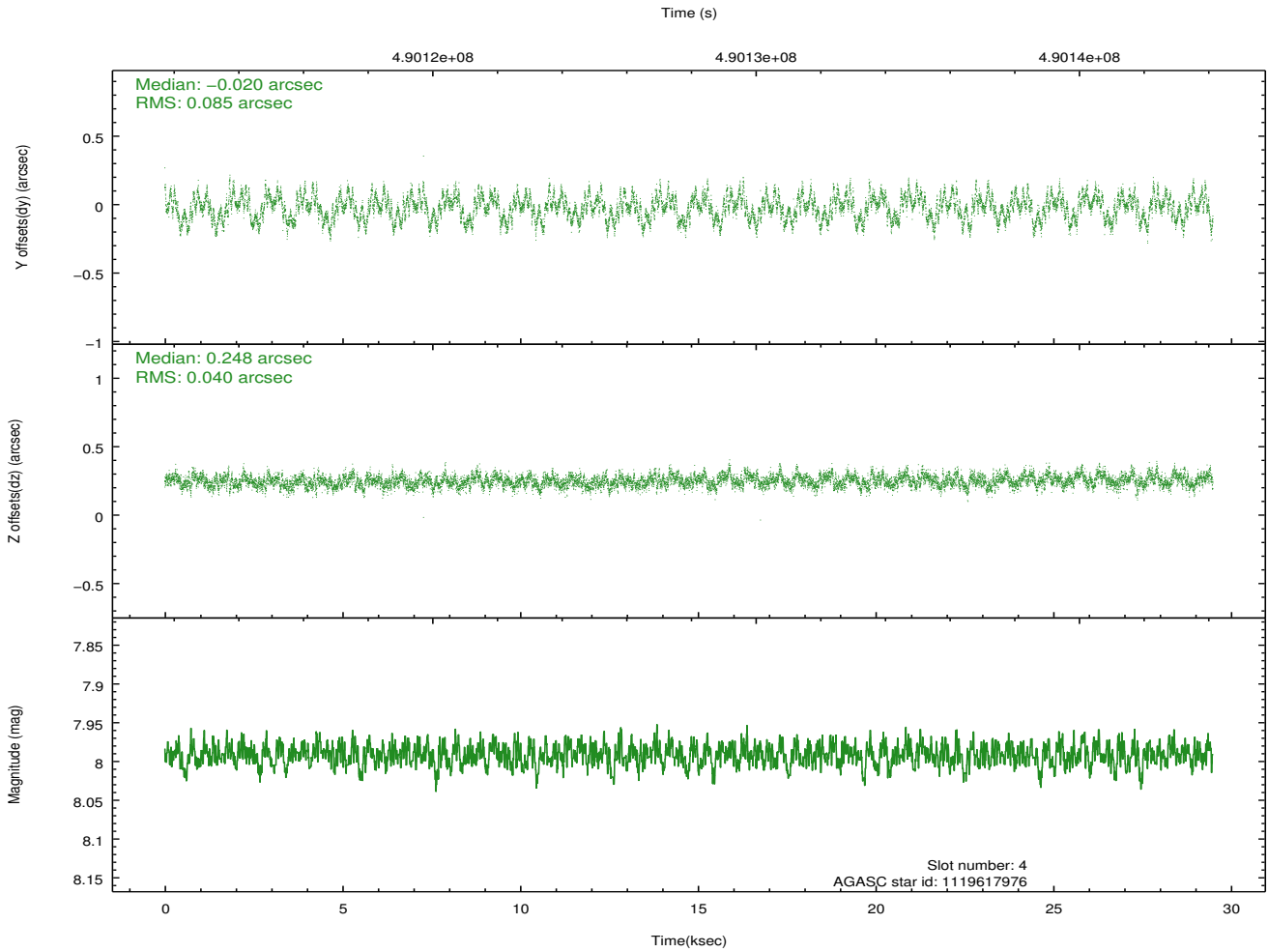
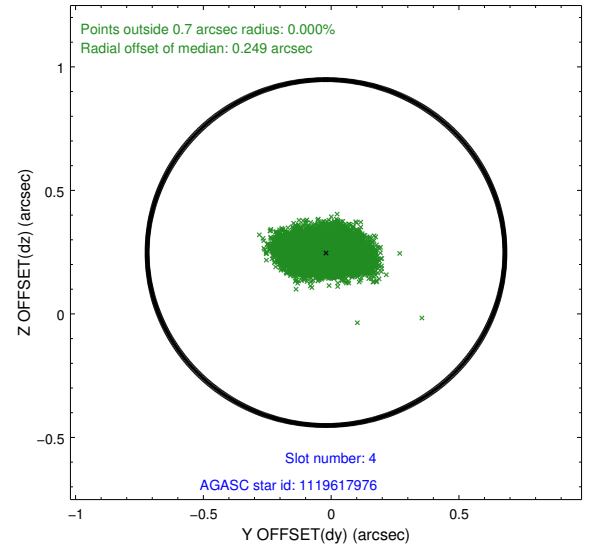
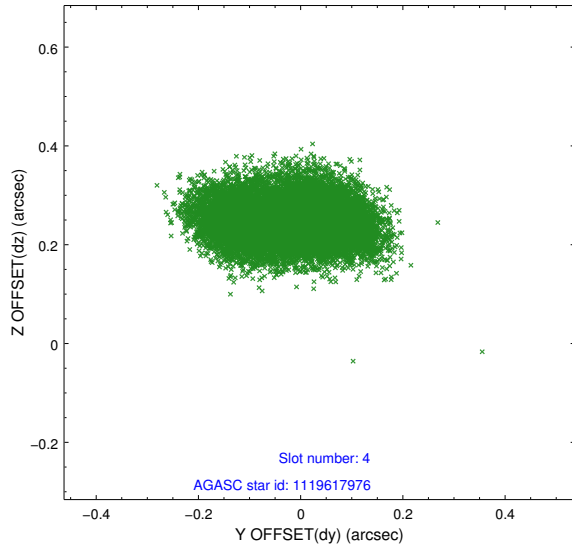
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	7193	-0.066	-0.004	0.017	0.033	0.000000	0.000000	-766.86	-1737.13
1	FID		ACIS-S-4	6.99	7192	0.210	0.033	0.018	0.028	0.000000	0.000000	2146.65	171.33
2	FID		ACIS-S-5	7.01	7192	-0.172	-0.022	0.014	0.032	0.000000	0.000000	-1819.71	165.01
3	GUIDE	used	1119617128	9.09	14379	0.060	-0.675	0.105	0.176	93.986624	-58.000911	1623.45	320.50
4	GUIDE	used	1119617976	7.99	14385	-0.020	0.248	0.103	0.164	94.543198	-57.336411	1317.11	-2282.15
5	GUIDE	used	1119618216	8.93	14375	-0.083	0.315	0.088	0.149	93.911968	-57.701545	2086.78	-662.82
6	GUIDE	used	1119625992	9.02	14371	0.132	0.197	0.105	0.160	95.619183	-57.592105	-943.04	-1999.80
7	GUIDE	used	1120150688	8.59	14379	-0.094	-0.085	0.078	0.131	95.241198	-58.352071	-1024.87	828.12

2.4 Star Slots

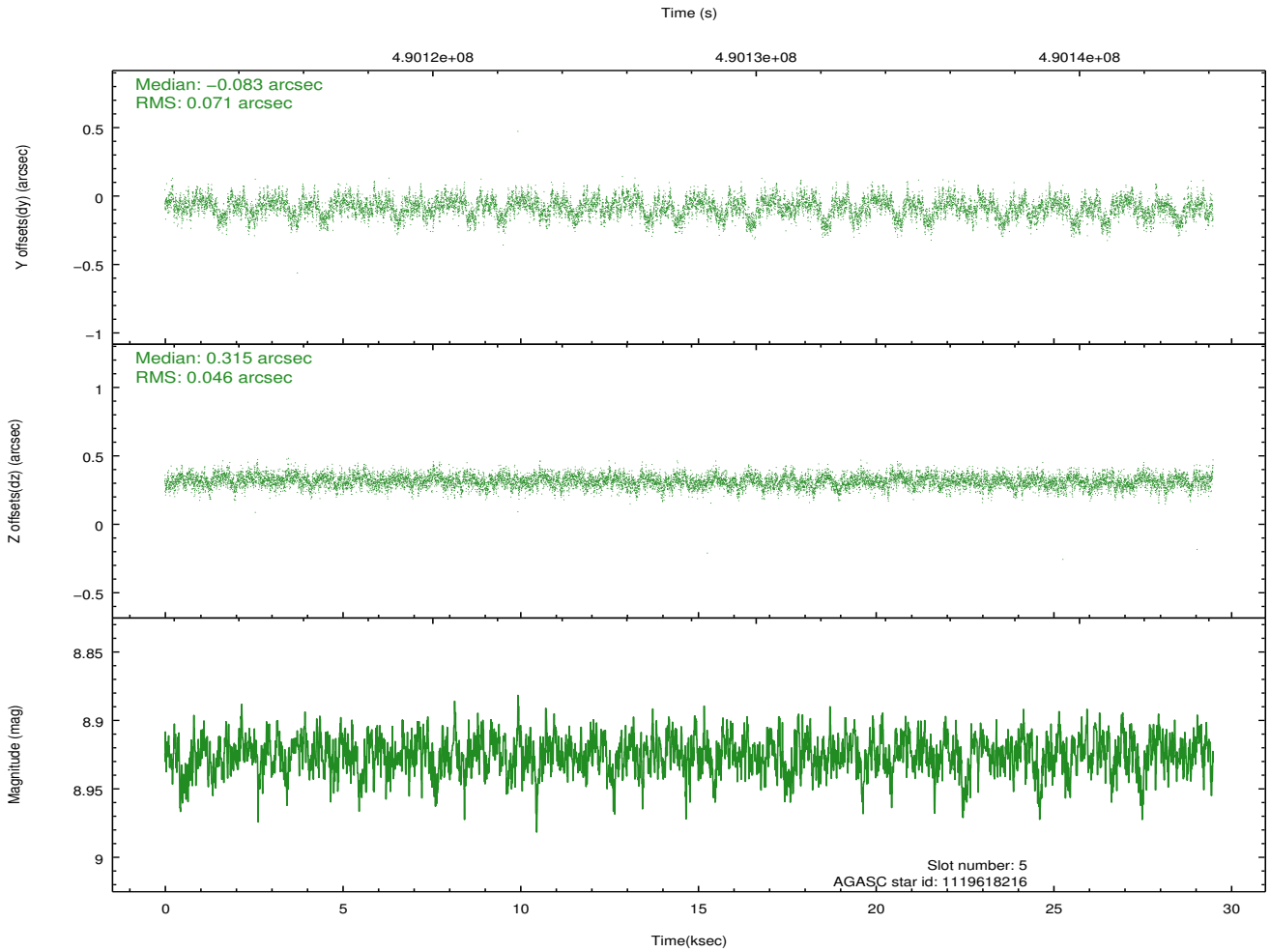
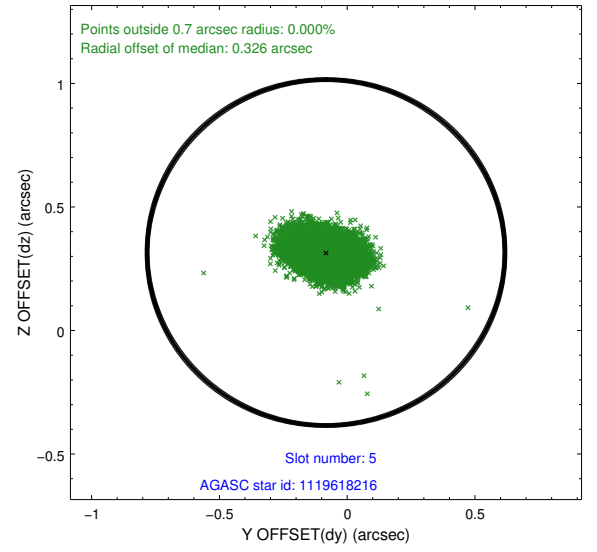
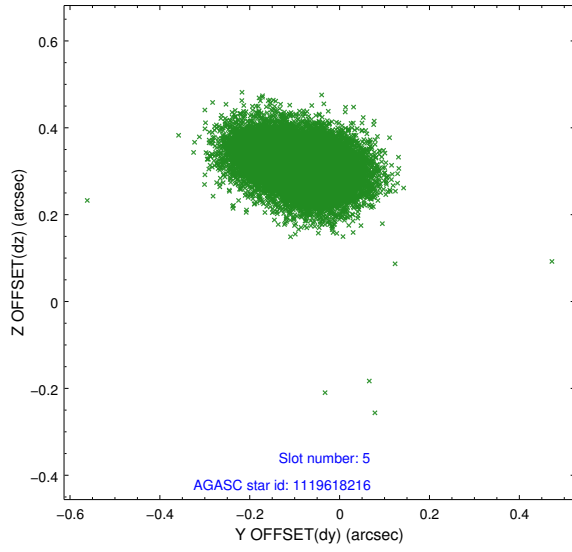
2.4.1 Slot 3



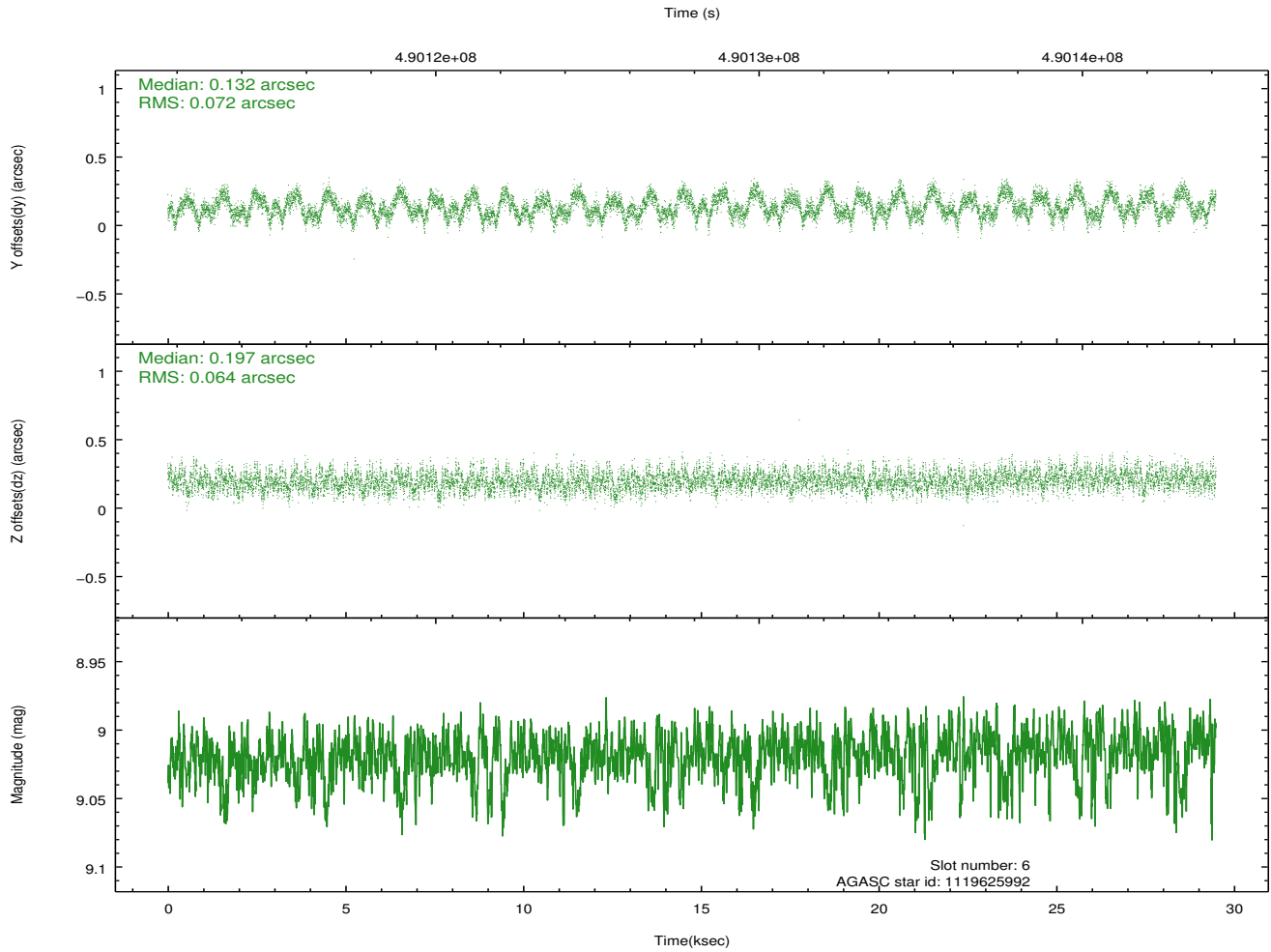
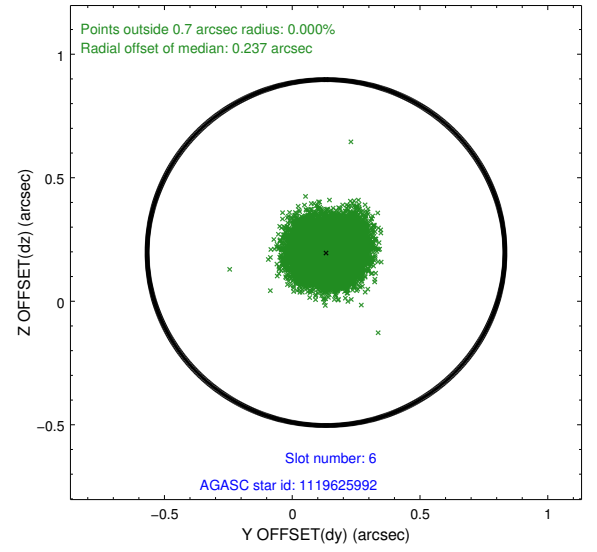
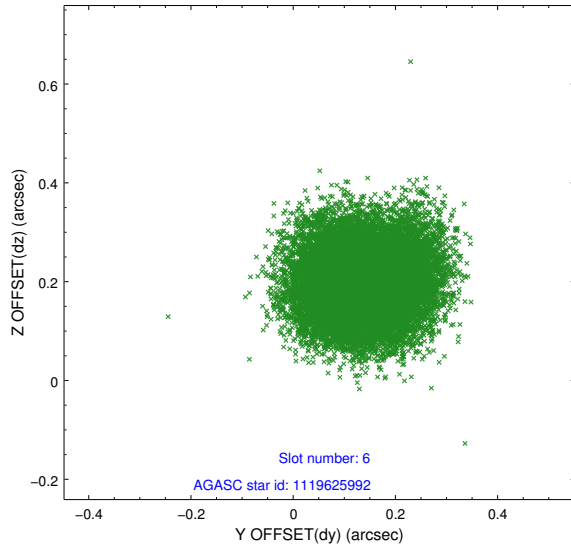
2.4.2 Slot 4



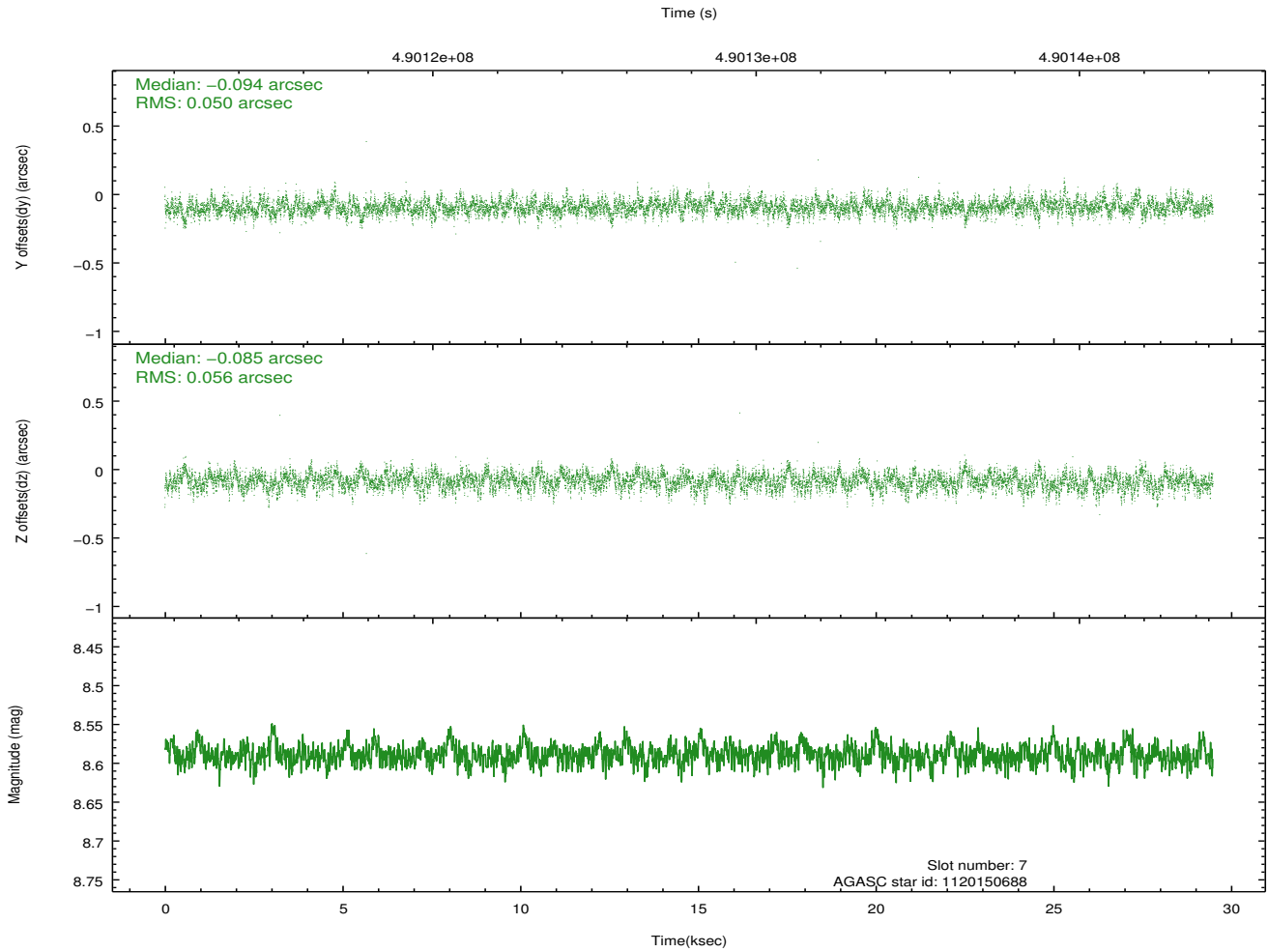
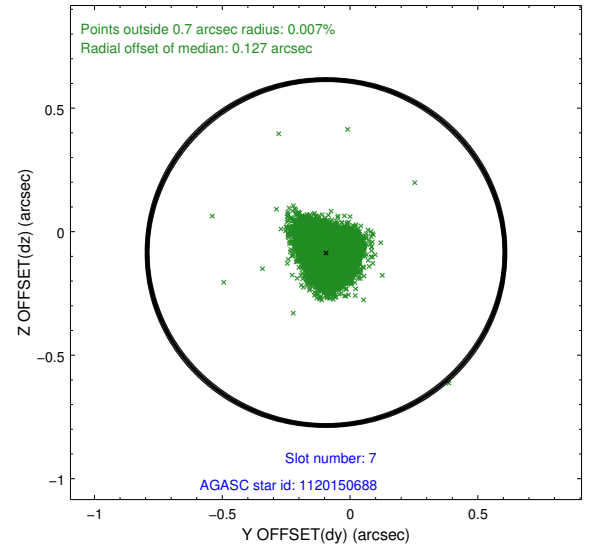
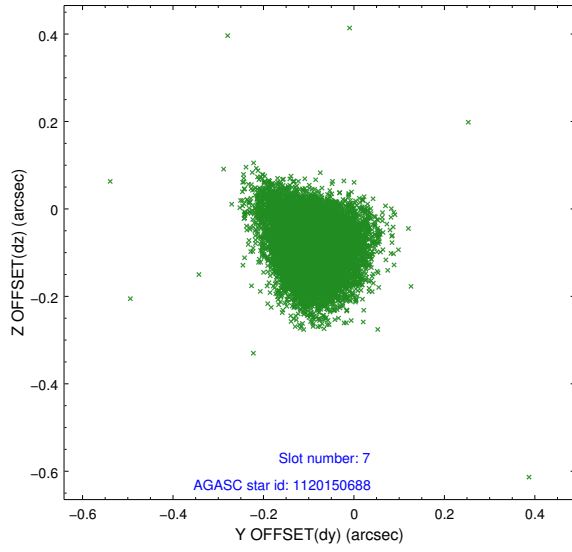
2.4.3 Slot 5



2.4.4 Slot 6

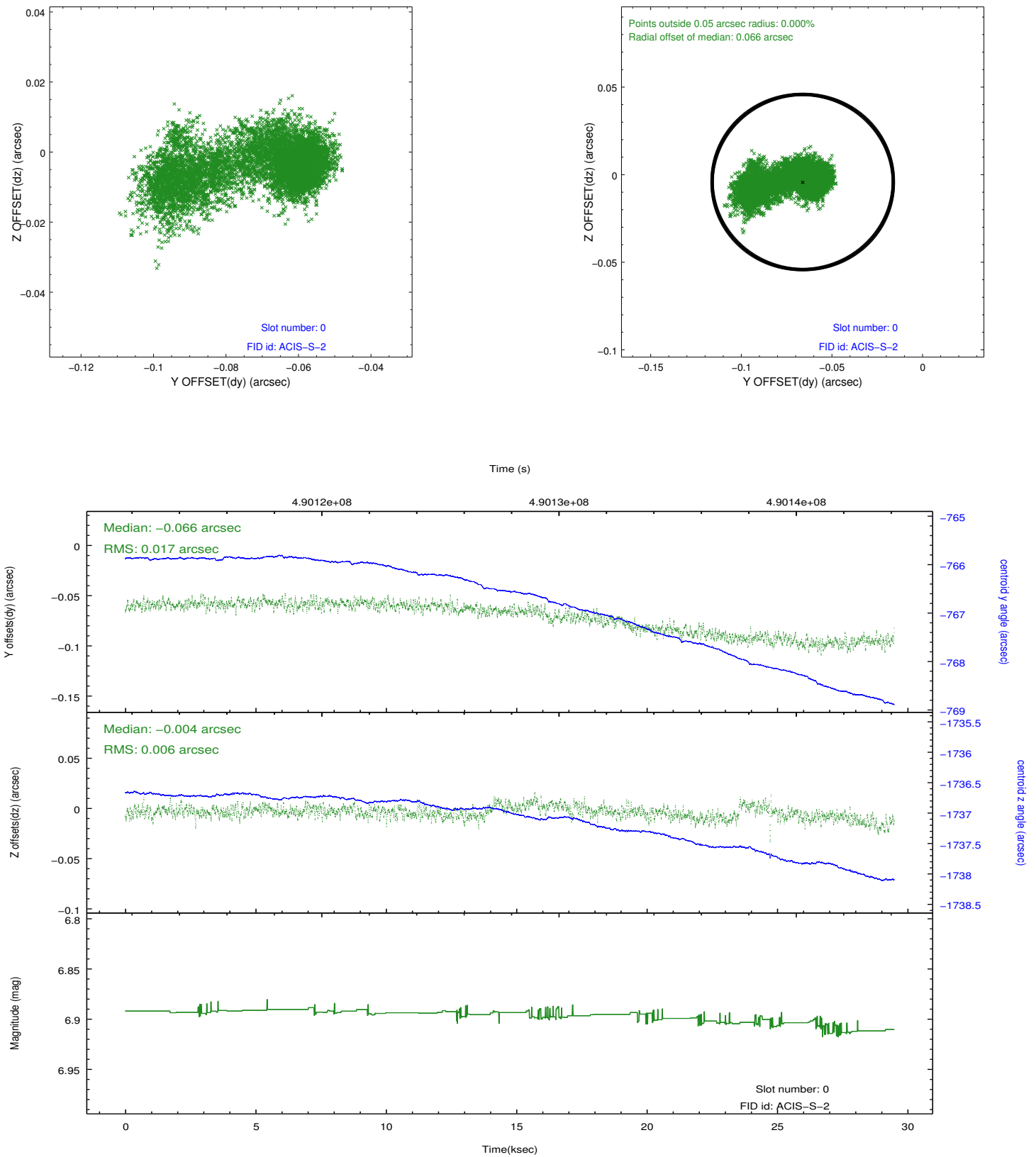


2.4.5 Slot 7

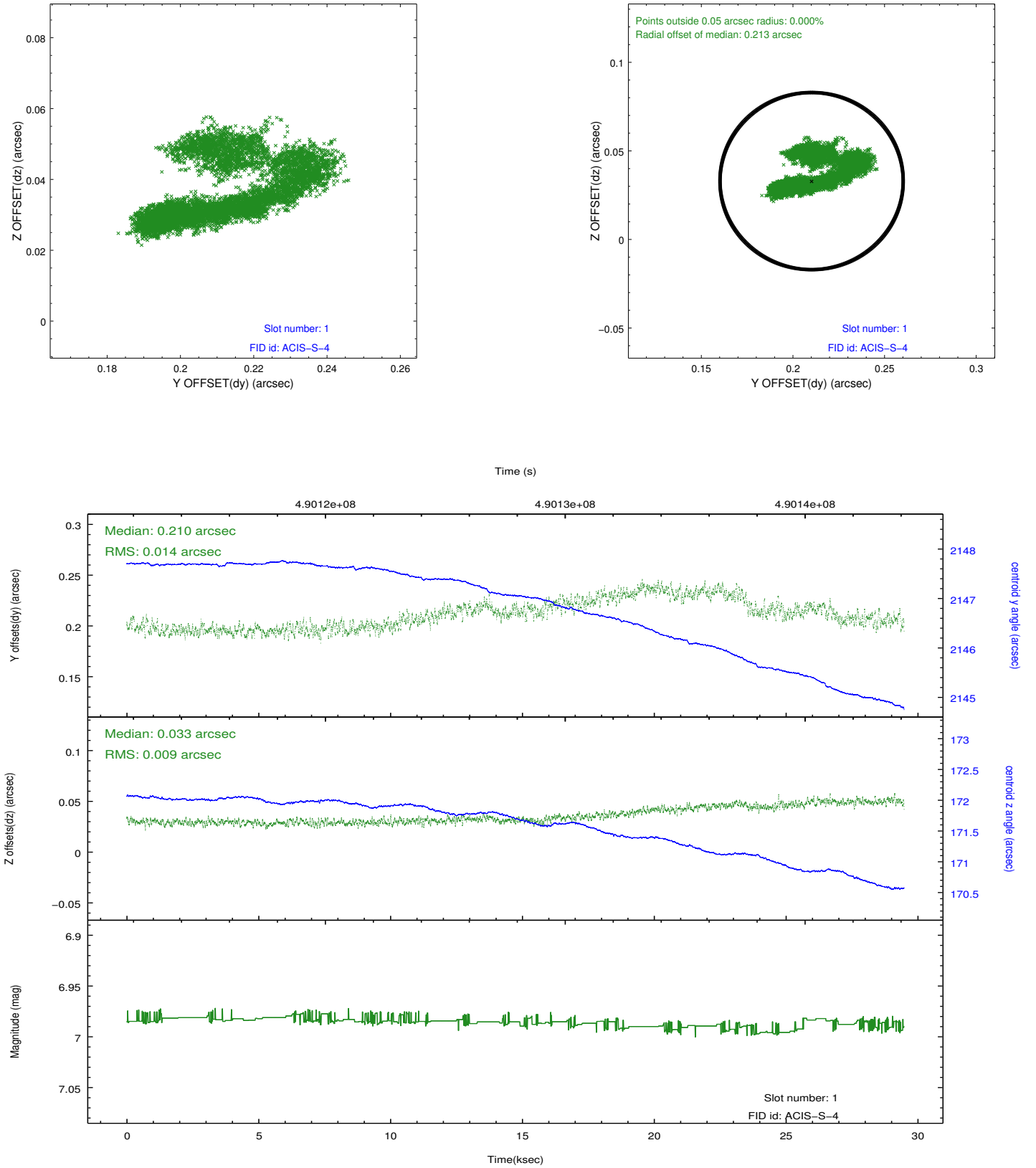


2.5 FID Slots

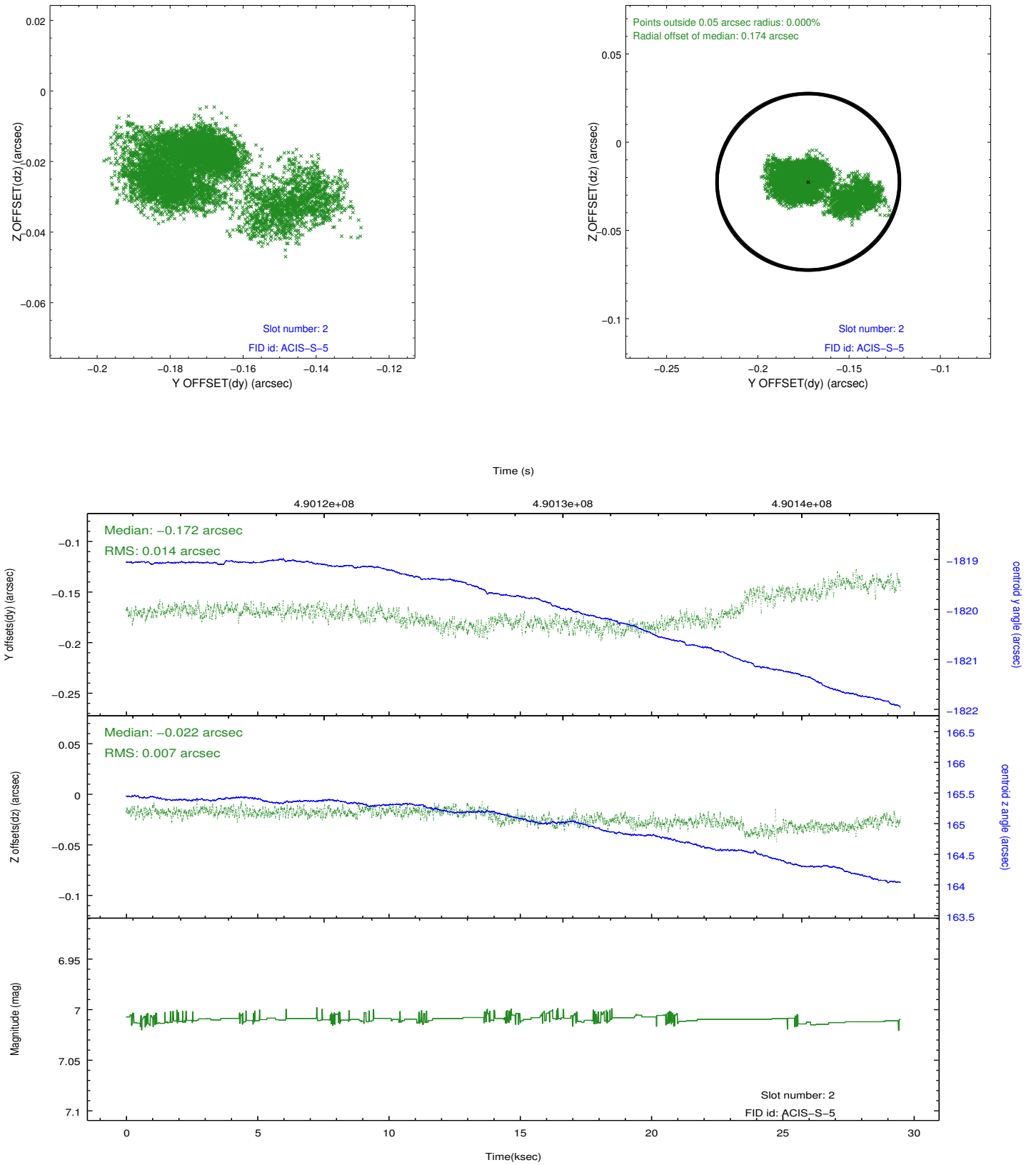
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.963199892163

A.2 Comments

Roll preference met.

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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.