

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10061 - L2 Version 2
Chandra X-Ray Center

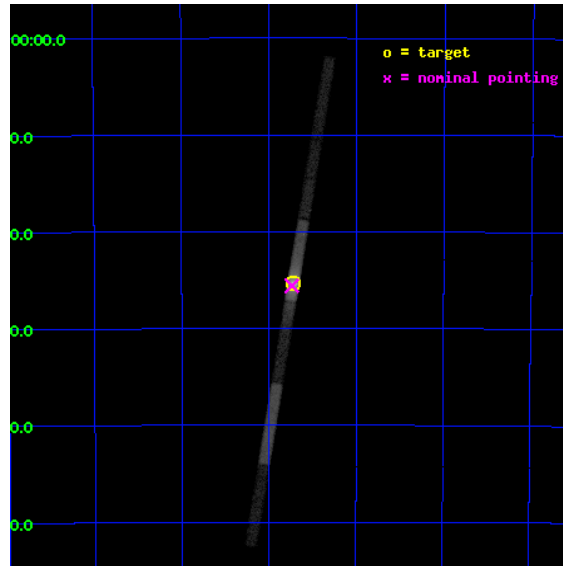
L2 Processing Date : Jun 10 2012

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1 Front

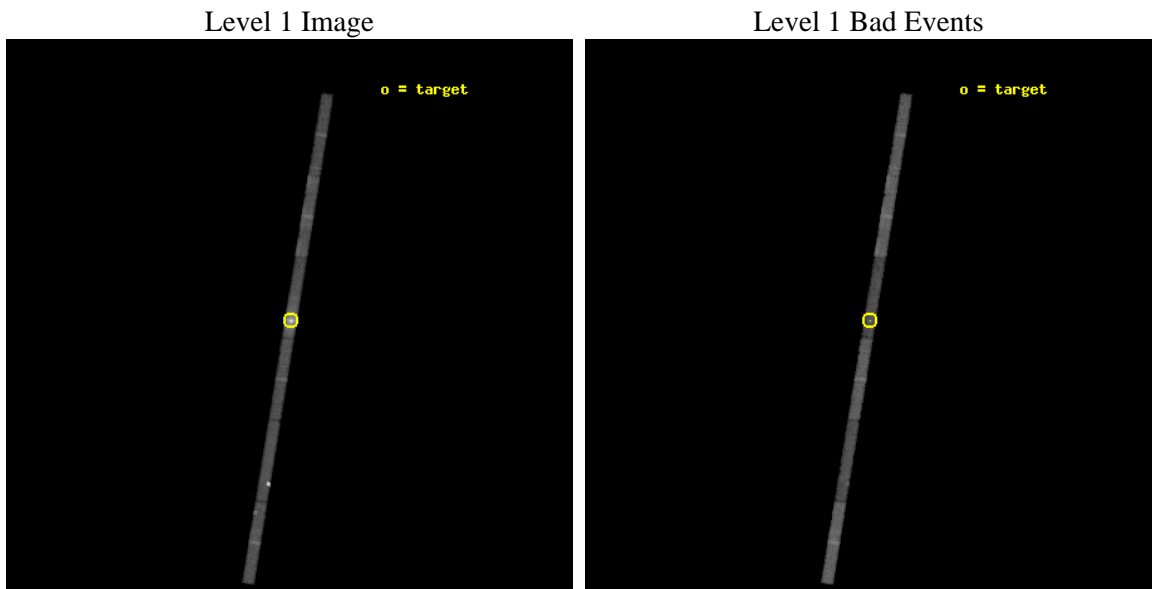
seq_num	401025	Sequence number
obs_id	10061	Observation id
title	Validating Neutron Star Radius Measurements	Proposal title
observer	Prof. Deepto Chakrabarty	Principal investigator
object	4U 1608-52	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.179167	Observer's specified target RA [deg]
dec_targ	-52.423056	Observer's specified target Dec [deg]
ra_nom	243.18435501936	Nominal RA [deg]
dec_nom	-52.426682639931	Nominal Dec [deg]
roll_nom	279.29599013076	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20360.199653208	Sum of GTIs [s]
livetime	19232.618694329	Livetime [s]
ontime4	20360.199653208	Sum of GTIs [s]
ontime5	20360.199653208	Sum of GTIs [s]
ontime6	20360.199653208	Sum of GTIs [s]
ontime7	20360.199653208	Sum of GTIs [s]
ontime8	20360.199653208	Sum of GTIs [s]
ontime9	20359.458613217	Sum of GTIs [s]
l2events	116634	Number of level 2 events



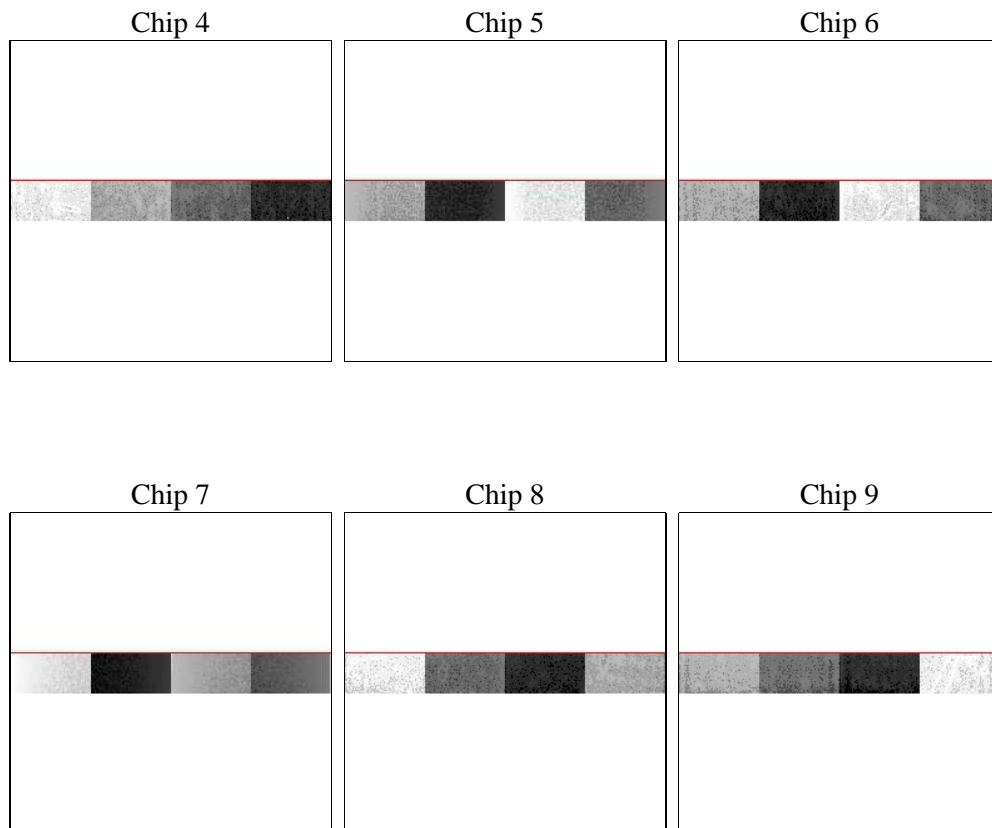
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20214.901000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20360.199653208	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	20360.199653208	Sum of GTIs [s]
date	2012-06-11T00:45:04	Date and time of file creation	ontime5	20360.199653208	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20360.199653208	Sum of GTIs [s]
			ontime7	20360.199653208	Sum of GTIs [s]
			ontime8	20360.199653208	Sum of GTIs [s]
			ontime9	20359.458613217	Sum of GTIs [s]
			l1events	307630	Number of level 1 events

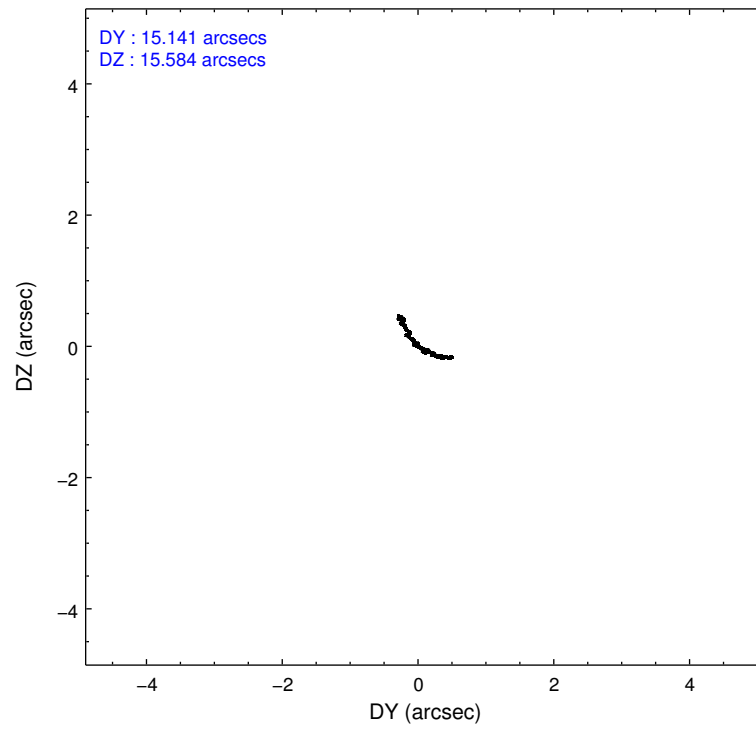
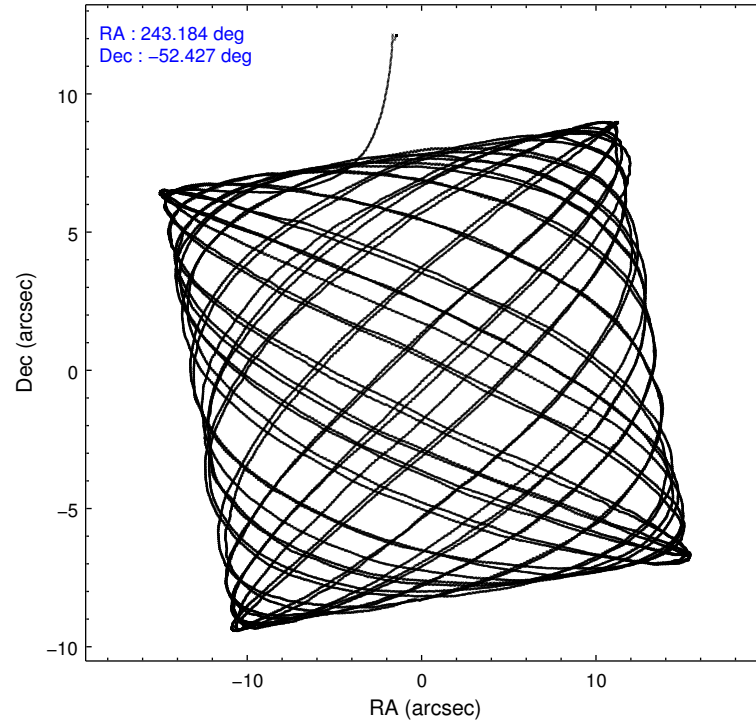
2.1.4 Events

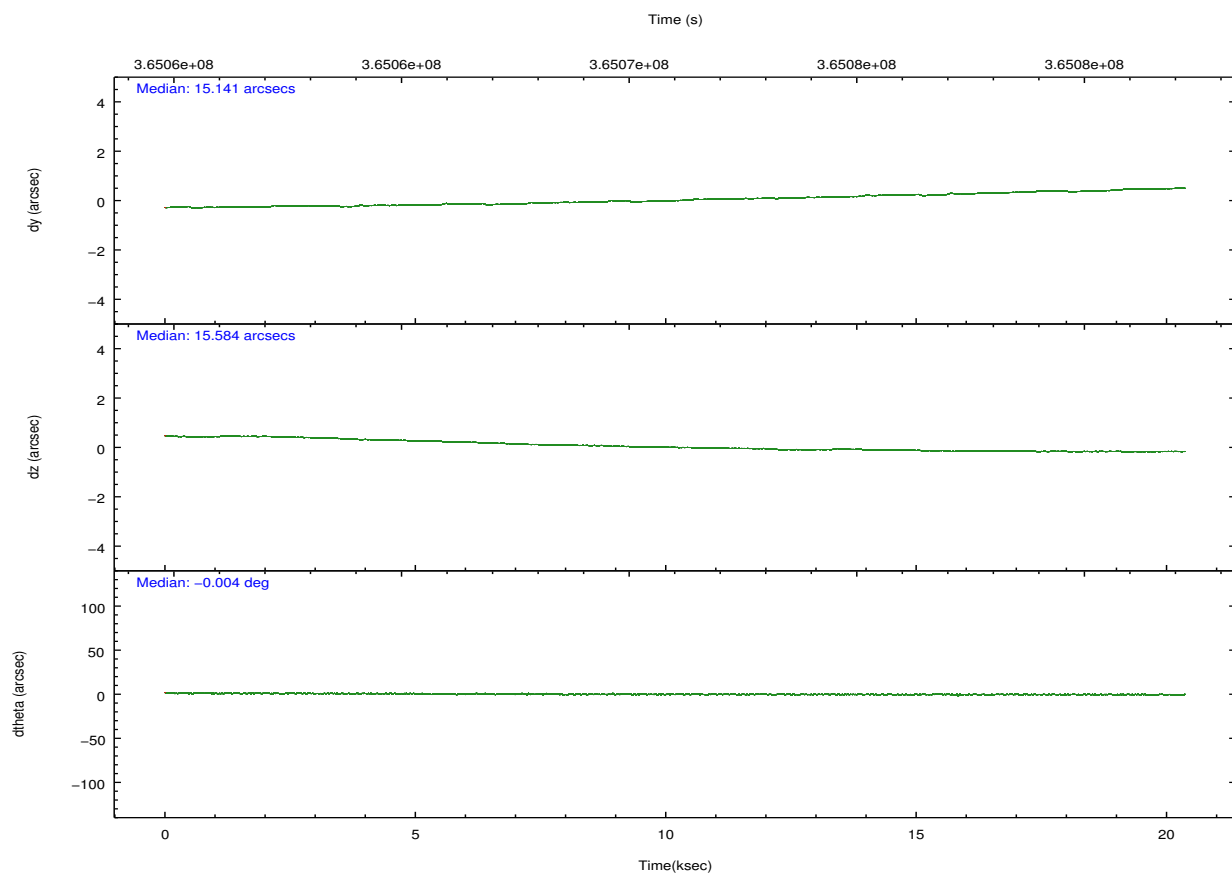
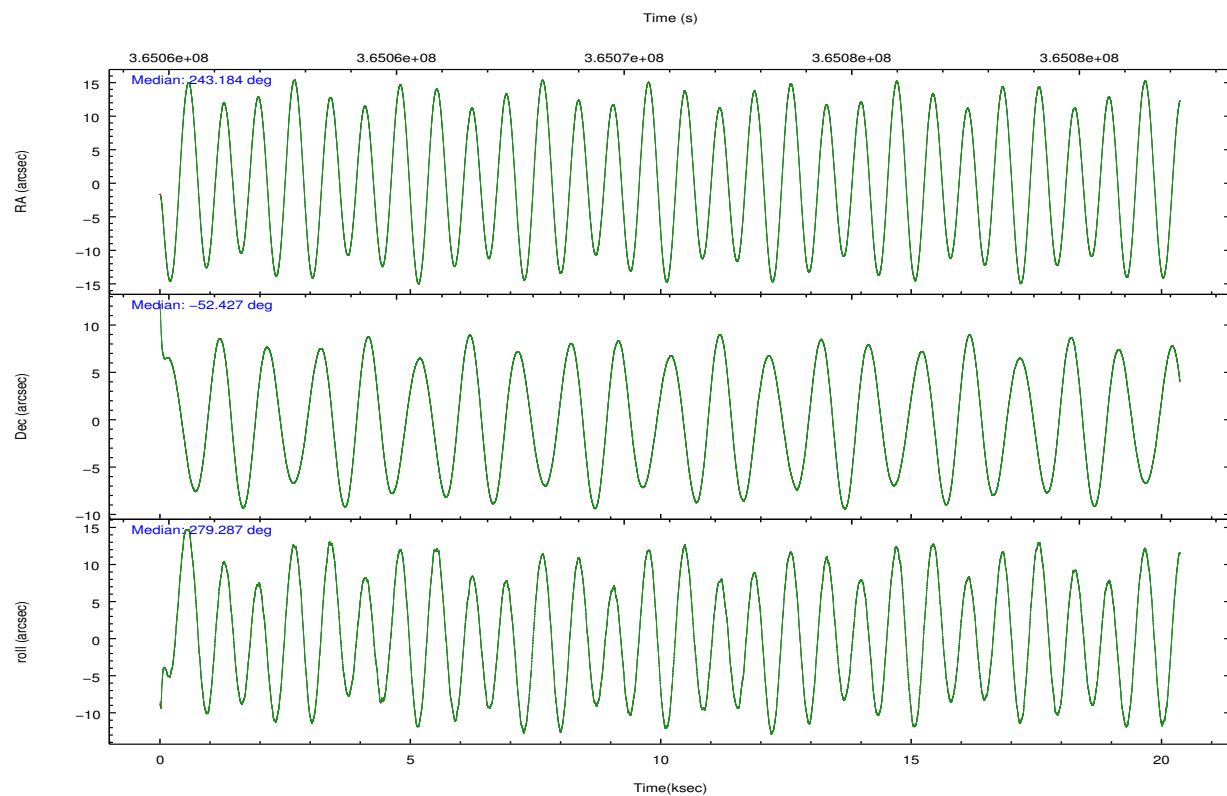
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	36767	58453	31686	111484	42575	26665	grade 0 events	2227	21284	2646	18964	2379	972
rejected events	32342	16672	26603	21024	33451	23620		6%	36%	8%	17%	5%	3%
rejected %	87%	28%	83%	18%	78%	88%	grade 1 events	52	253	17	832	10	10
								0%	0%	0%	0%	0%	0%
							grade 2 events	777	12246	784	22547	2040	545
								2%	20%	2%	20%	4%	2%
							grade 3 events	575	1321	610	10309	1100	574
								1%	2%	1%	9%	2%	2%
							grade 4 events	522	1491	669	10072	1041	557
								1%	2%	2%	9%	2%	2%
							grade 5 events	904	2907	832	5485	1218	834
								2%	4%	2%	4%	2%	3%
							grade 6 events	526	7661	606	29776	2972	549
								1%	13%	1%	26%	6%	2%
							grade 7 events	31184	11290	25522	13499	31815	22624
								84%	19%	80%	12%	74%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	243.155528	243.184355019362	CCD I2 on	N	N
[deg] Pointing Dec	-52.405793	-52.42668263993095	CCD I3 on	N	N
[deg] Pointing Roll	279.116523	279.2959901307603	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O3	Y
[s] Observation start time (MET)	365060984.184000	365059678.92606	CCD S5 on	O2	Y
Observation start date	2009-07-27T05:48:38	2009-07-27T05:27:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	365081199.184000	365081423.78965	On-chip summing requested	N	N
Observation end date	2009-07-27T11:25:33	2009-07-27T11:30:23	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect



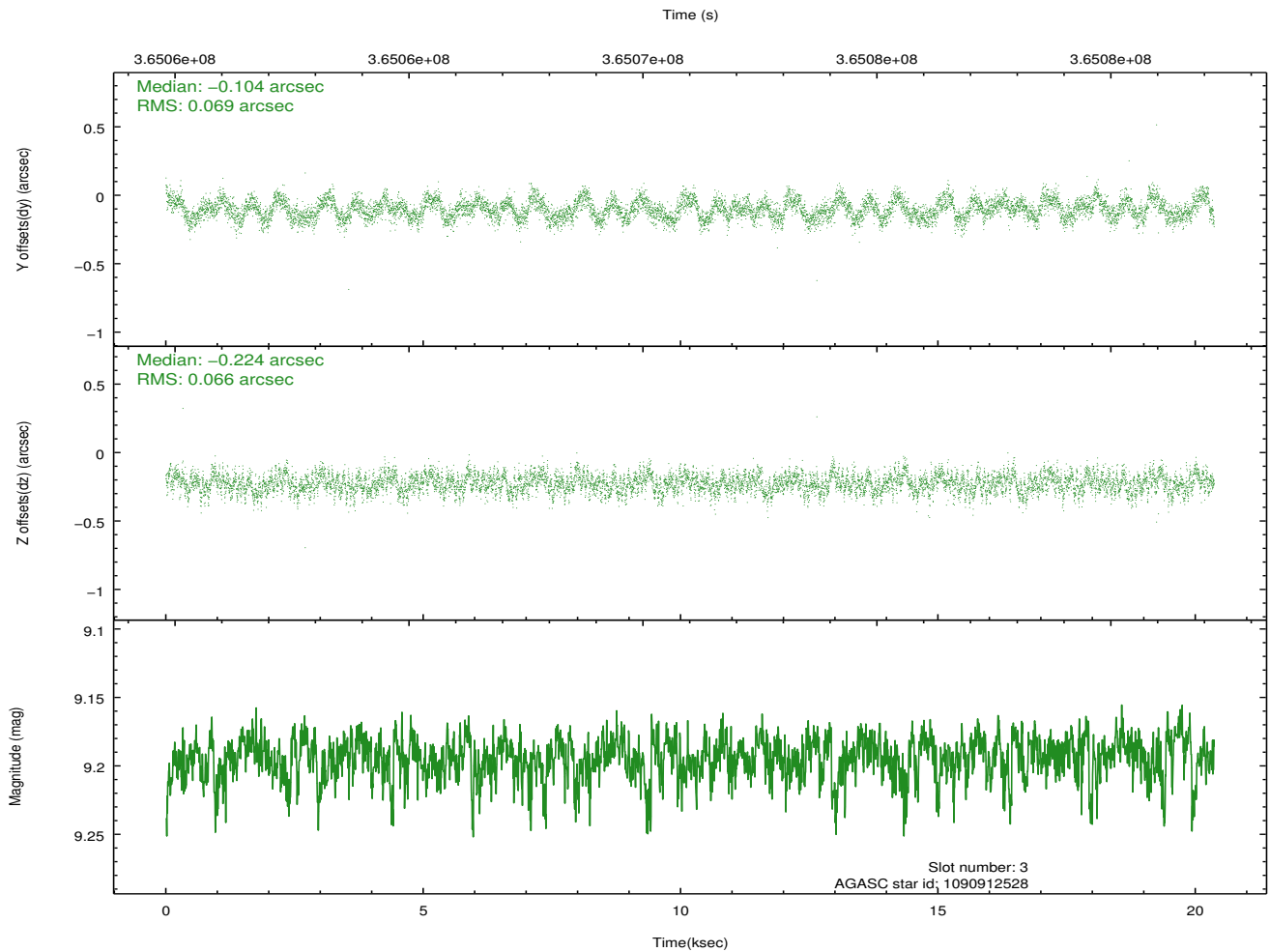
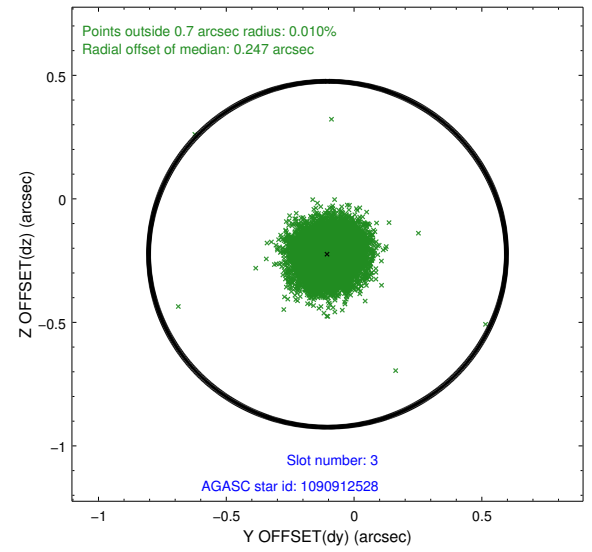
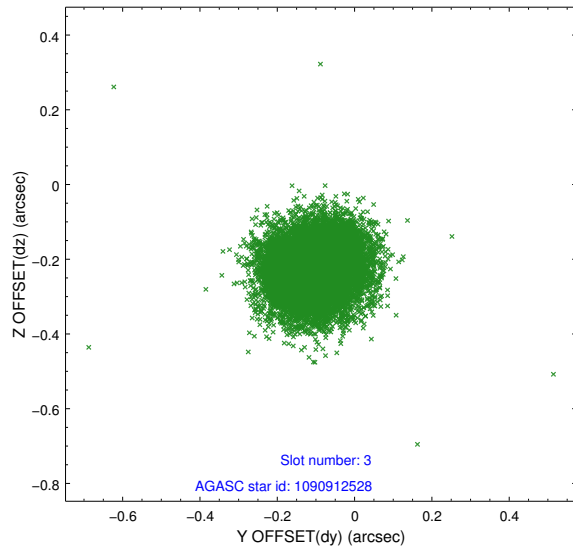


Slot Statistics

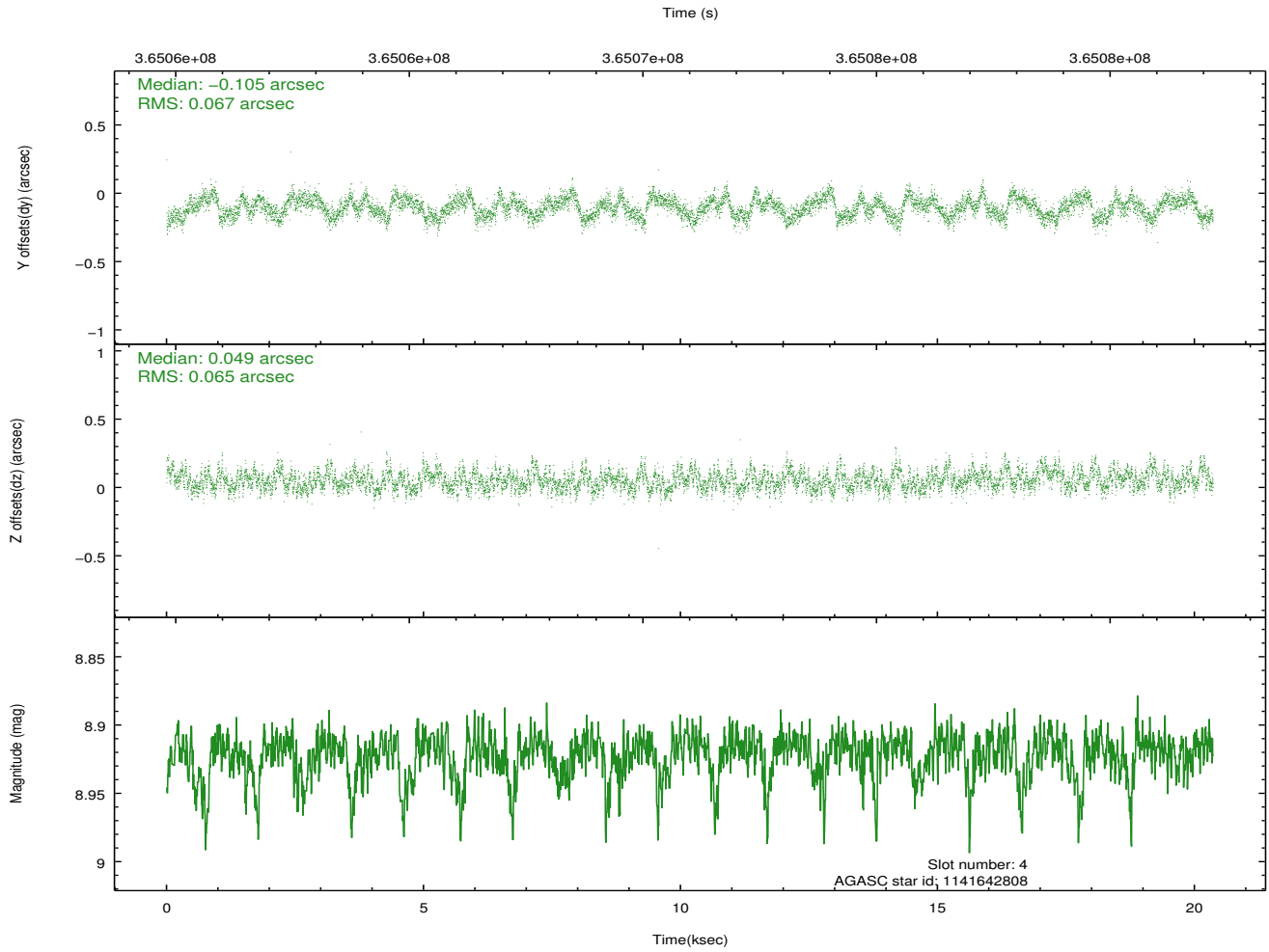
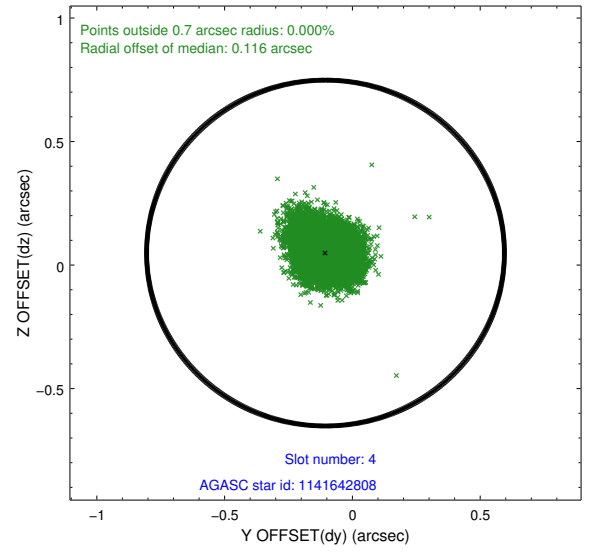
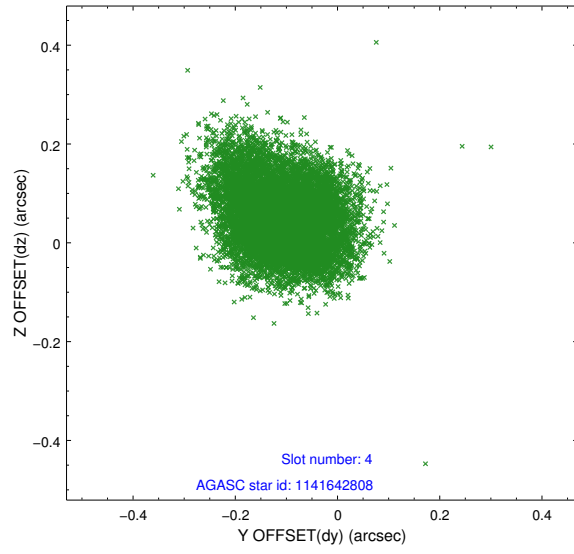
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	4967	-0.100	-0.030	0.010	0.015	0.000000	0.000000	-768.25	-1737.03
1	FID	ACIS-S-4	7.05	4967	0.219	0.056	0.010	0.024	0.000000	0.000000	2145.25	171.37
2	FID	ACIS-S-5	7.08	4965	-0.151	-0.017	0.011	0.028	0.000000	0.000000	-1820.92	165.14
3	GUIDE	1090912528	9.19	9920	-0.104	-0.224	0.103	0.159	243.442083	-52.189044	-668.79	747.61
4	GUIDE	1141642808	8.92	9931	-0.105	0.049	0.100	0.160	242.344762	-52.759774	988.76	-1947.13
5	GUIDE	1141646040	8.76	9920	-0.015	-0.007	0.066	0.106	243.143039	-52.904491	1769.01	-311.01
6	GUIDE	1090912584	8.53	9926	0.042	0.015	0.080	0.128	243.674080	-52.336921	-59.57	1164.89
7	GUIDE	1141784952	8.72	9927	0.180	0.164	0.070	0.114	244.317404	-52.951543	2359.68	2174.24

2.4 Star Slots

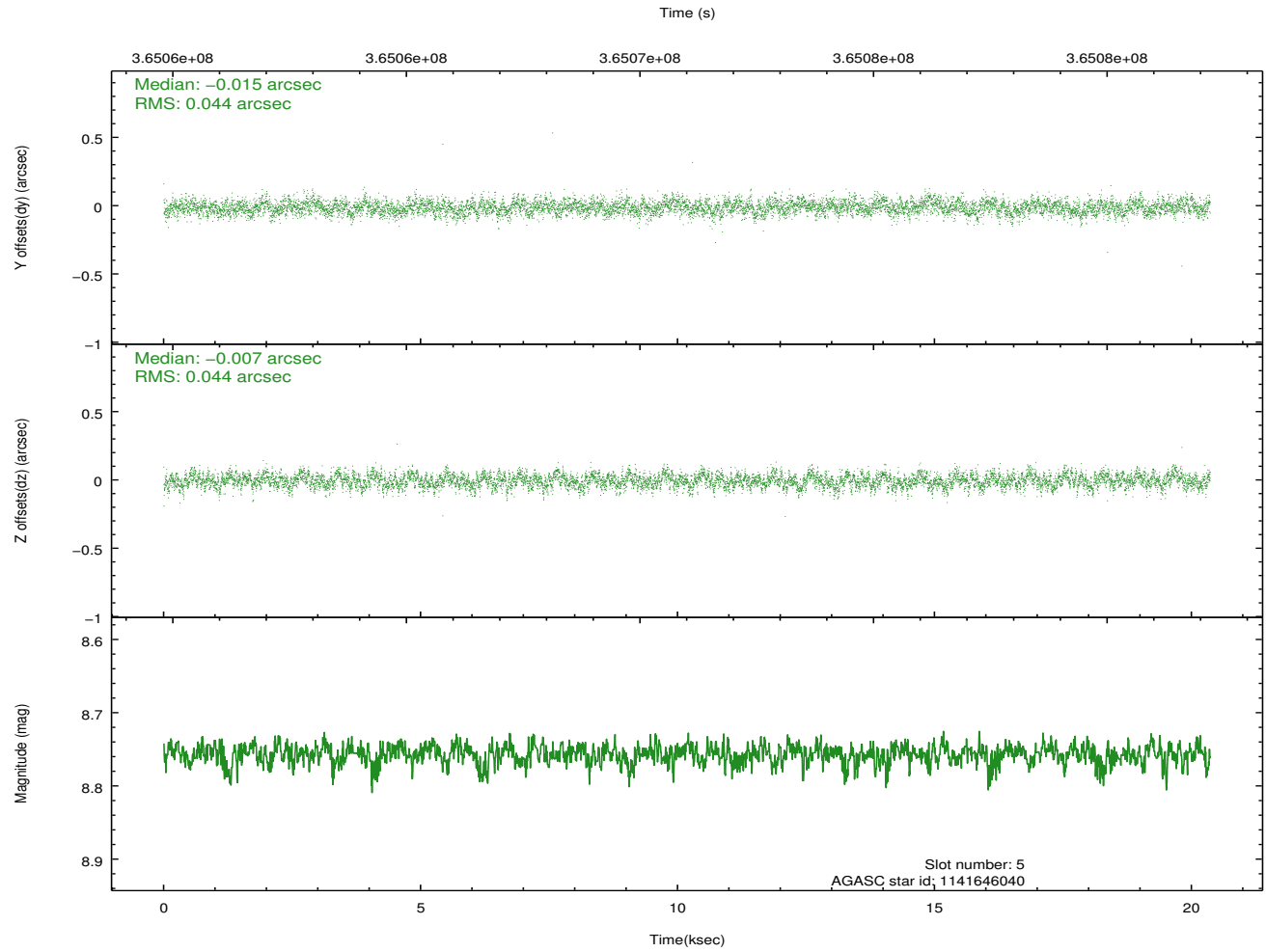
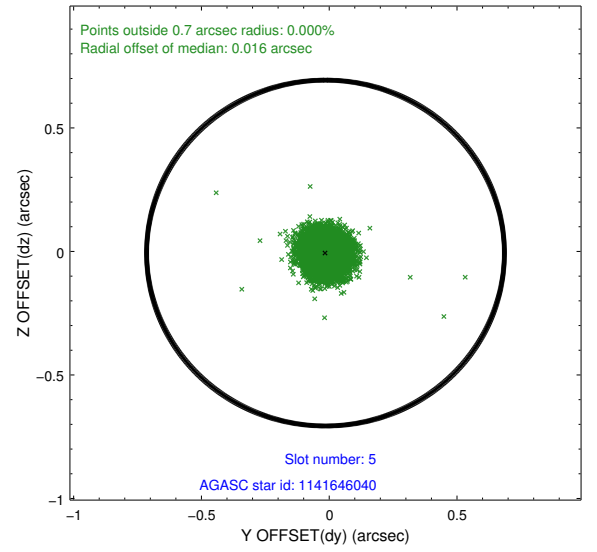
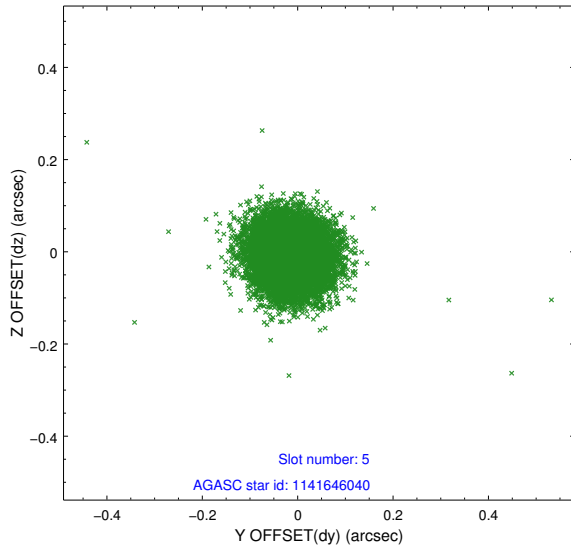
2.4.1 Slot 3



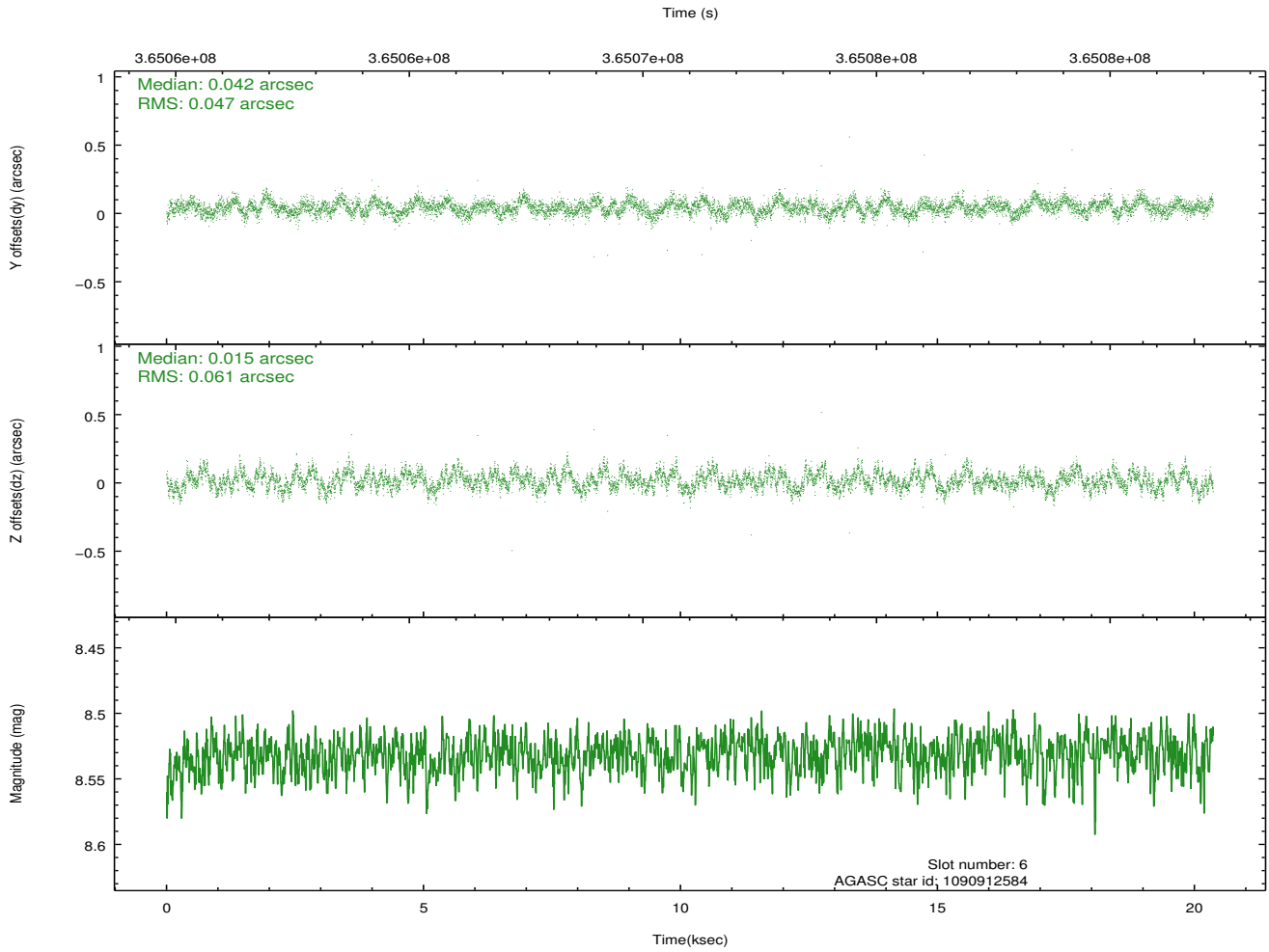
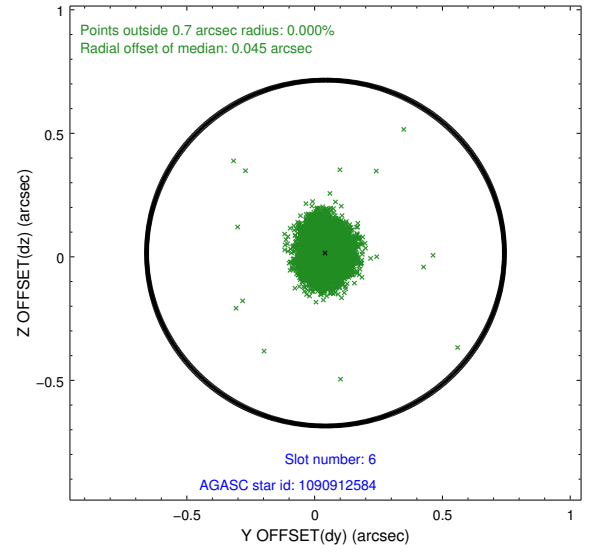
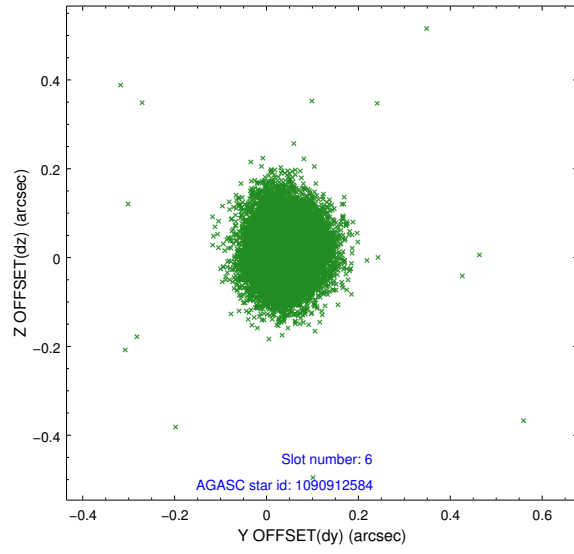
2.4.2 Slot 4



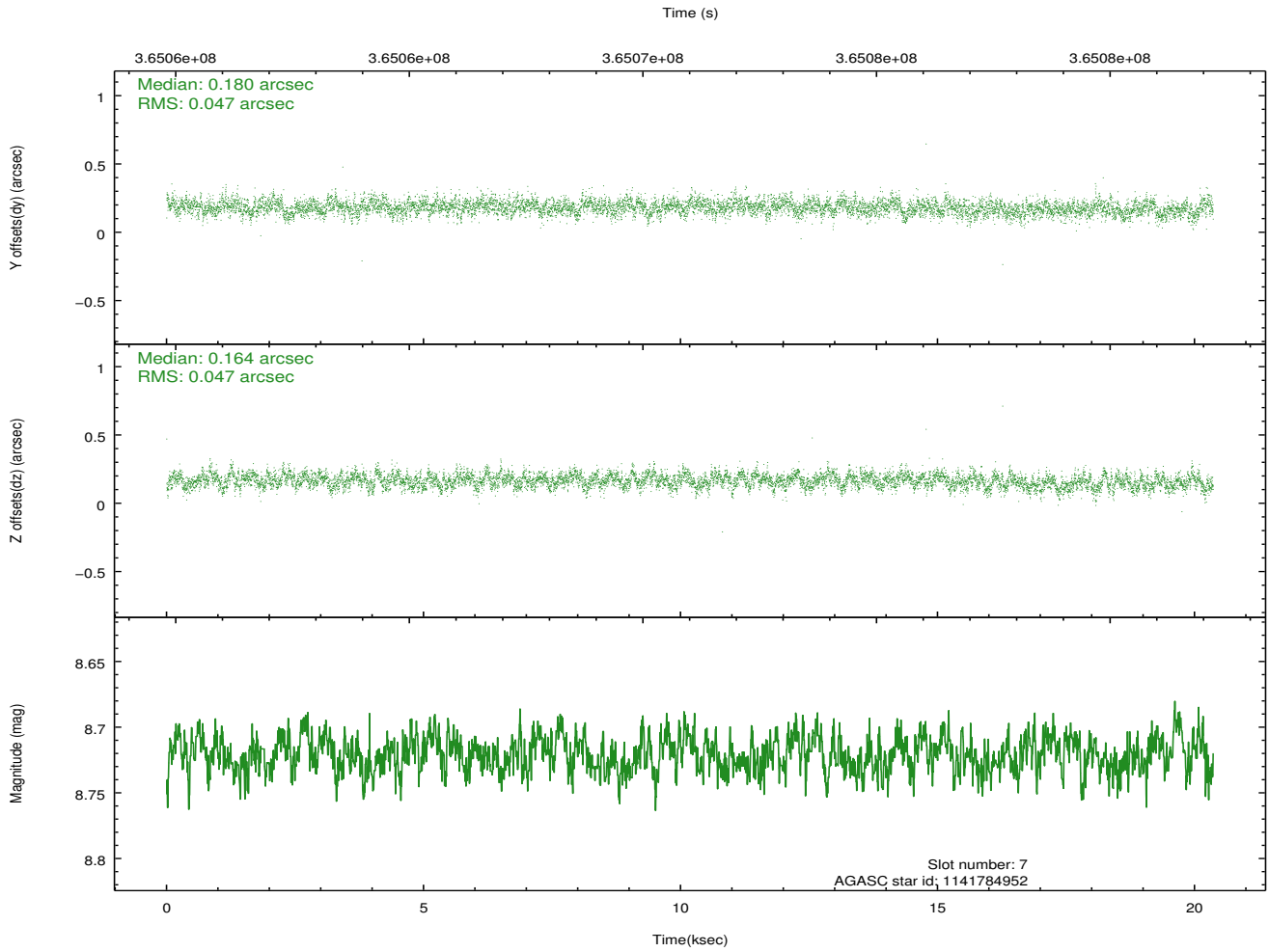
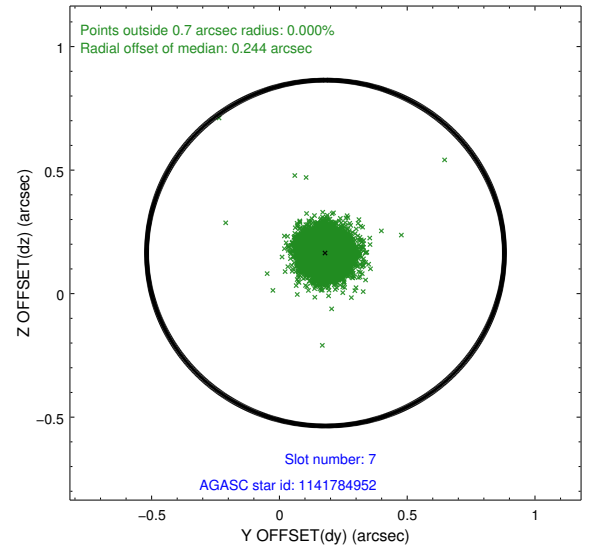
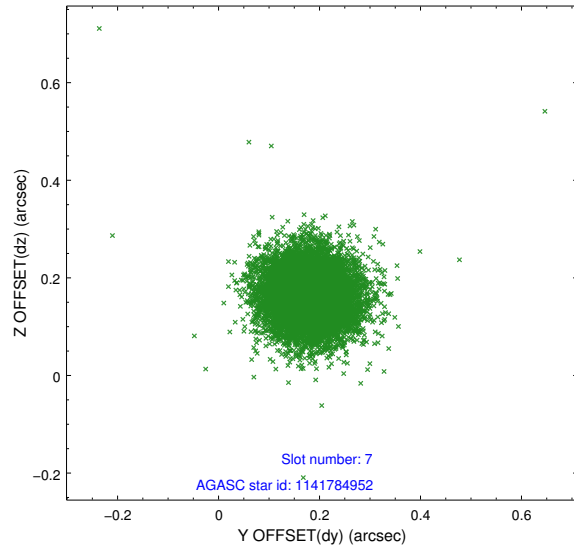
2.4.3 Slot 5



2.4.4 Slot 6

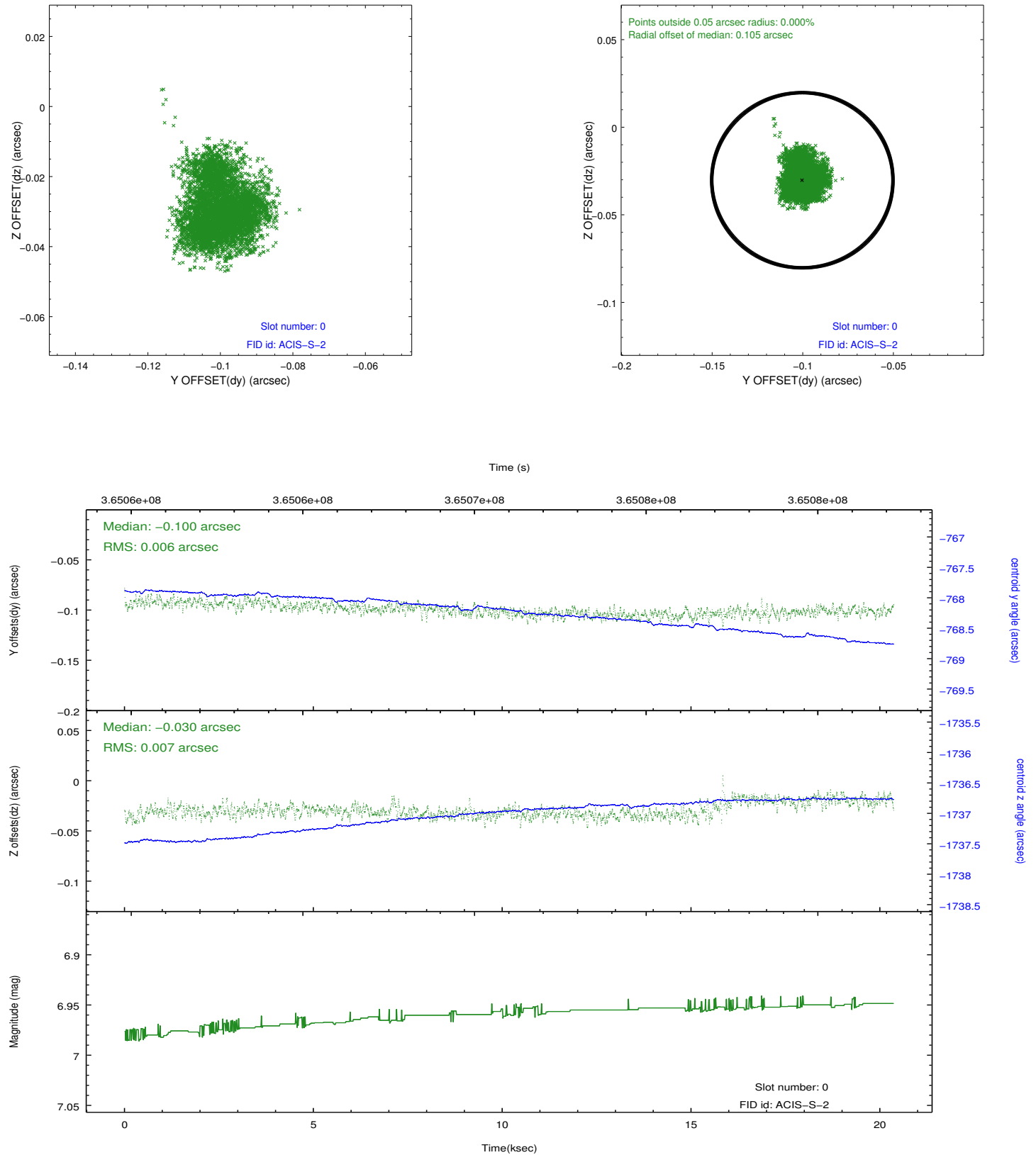


2.4.5 Slot 7

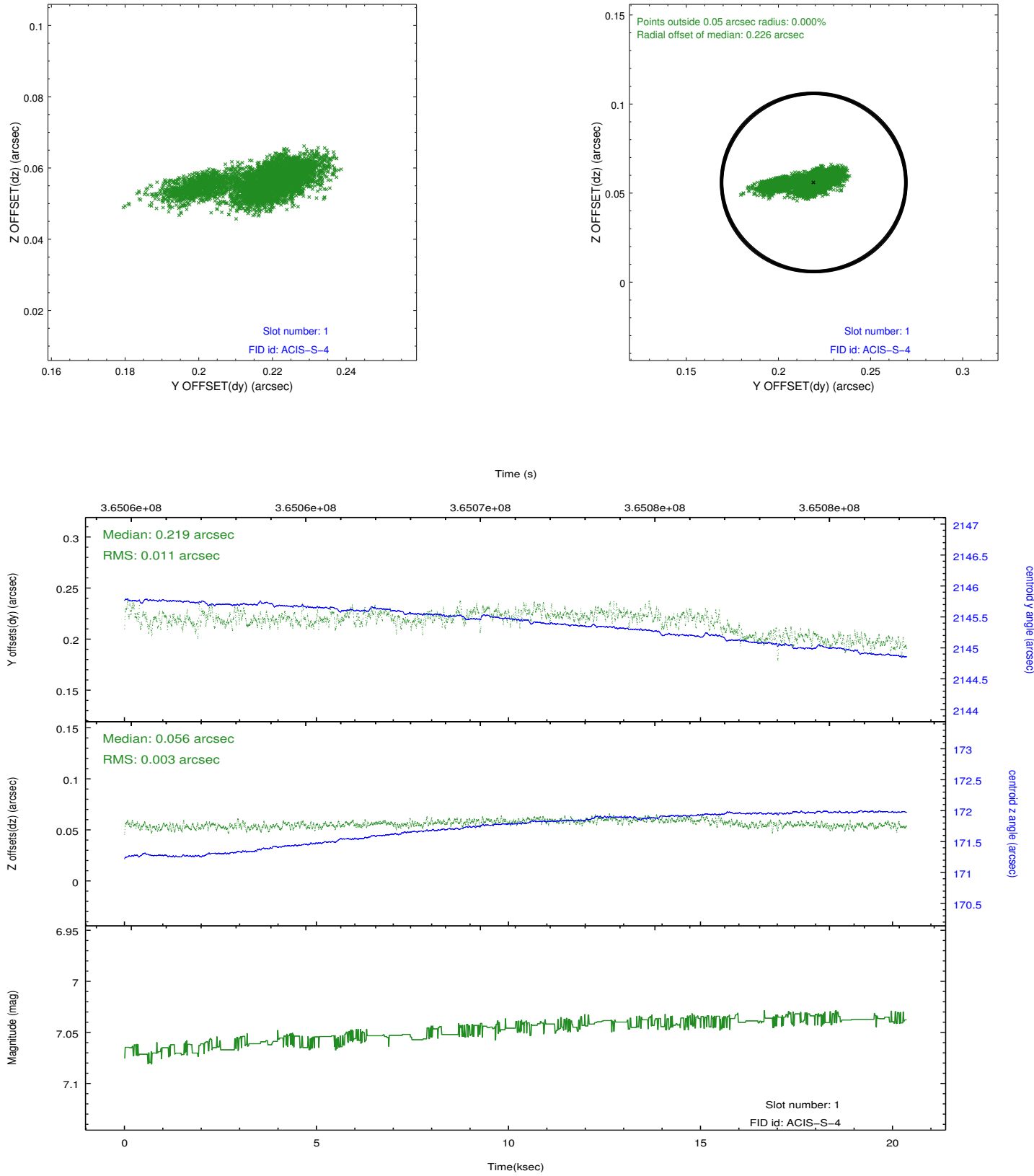


2.5 FID Slots

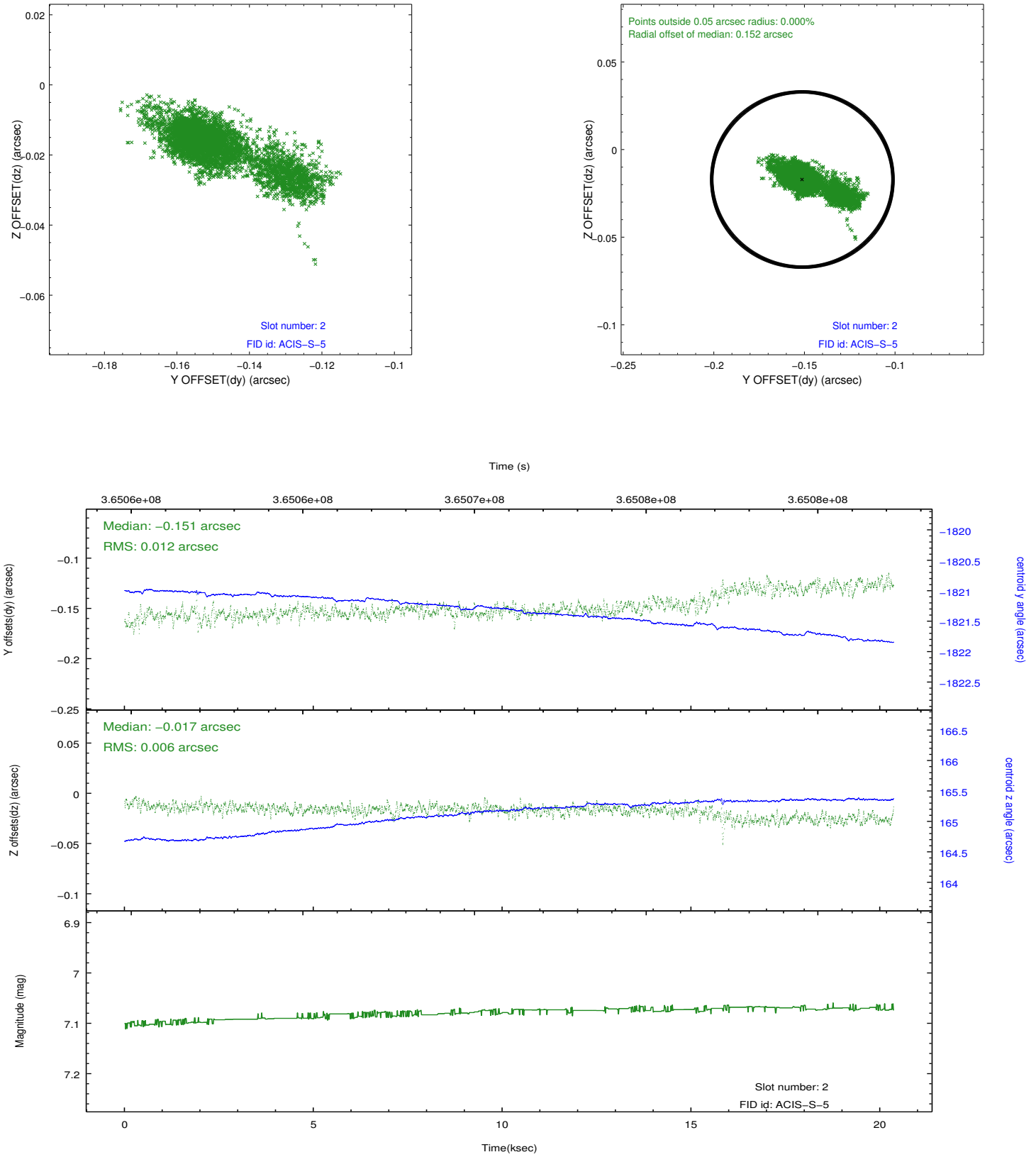
2.5.1 Slot 0



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)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.3601996

A.2 Comments