

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2877 - L2 Version 3
Chandra X-Ray Center

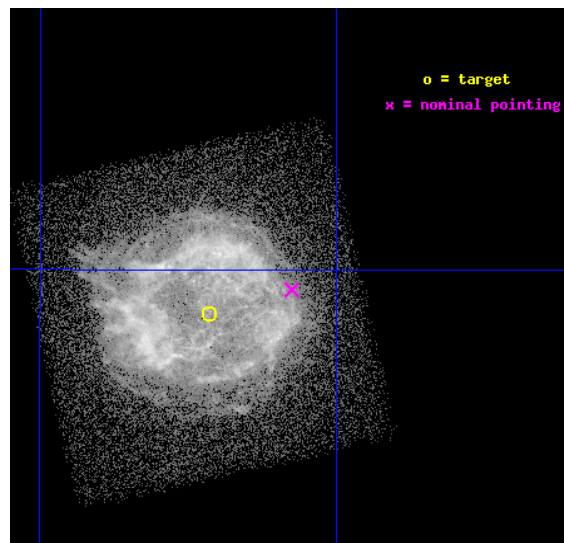
L2 Processing Date : Oct 13 2012

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1 Front

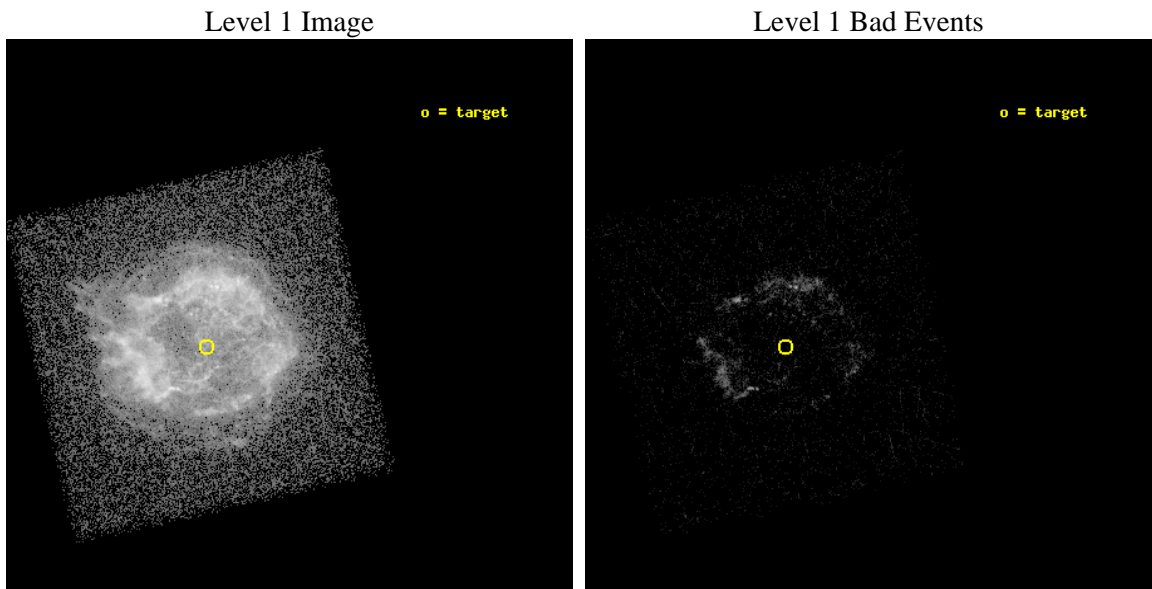
seq_num	590266	Sequence number
obs_id	2877	Observation id
title	AO3B CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S3, T=120, Offsets=-2,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.78790014048	Nominal RA [deg]
dec_nom	58.824814330233	Nominal Dec [deg]
roll_nom	167.36906782952	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1098.157464087	Sum of GTIs [s]
livetime	1084.2519330457	Livetime [s]
ontime4	1951.9999927282	Sum of GTIs [s]
ontime5	1951.9999927282	Sum of GTIs [s]
ontime6	1951.9999927282	Sum of GTIs [s]
ontime7	1098.157464087	Sum of GTIs [s]
ontime8	1951.9999927282	Sum of GTIs [s]
ontime9	1951.9999927282	Sum of GTIs [s]
l2events	338240	Number of level 2 events



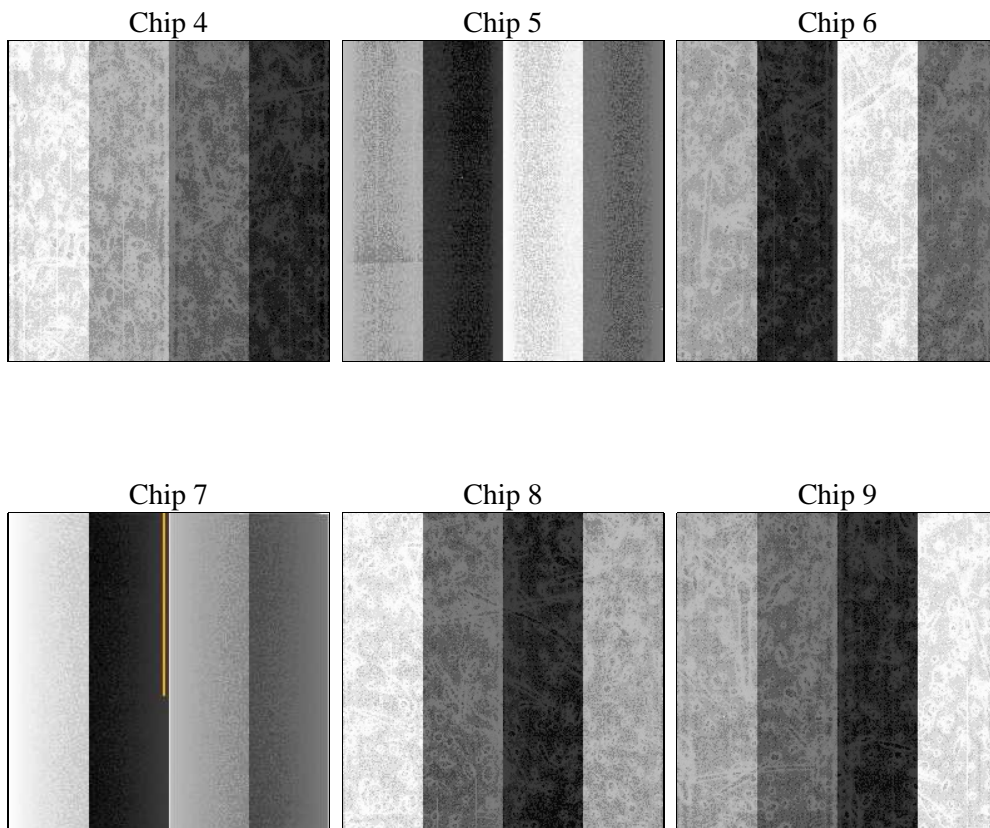
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1098.157464087	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	1951.9999927282	Sum of GTIs [s]
date	2012-10-13T05:17:33	Date and time of file creation	ontime5	1951.9999927282	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1951.9999927282	Sum of GTIs [s]
			ontime7	1098.157464087	Sum of GTIs [s]
			ontime8	1951.9999927282	Sum of GTIs [s]
			ontime9	1951.9999927282	Sum of GTIs [s]
			l1events	377313	Number of level 1 events

2.1.4 Events

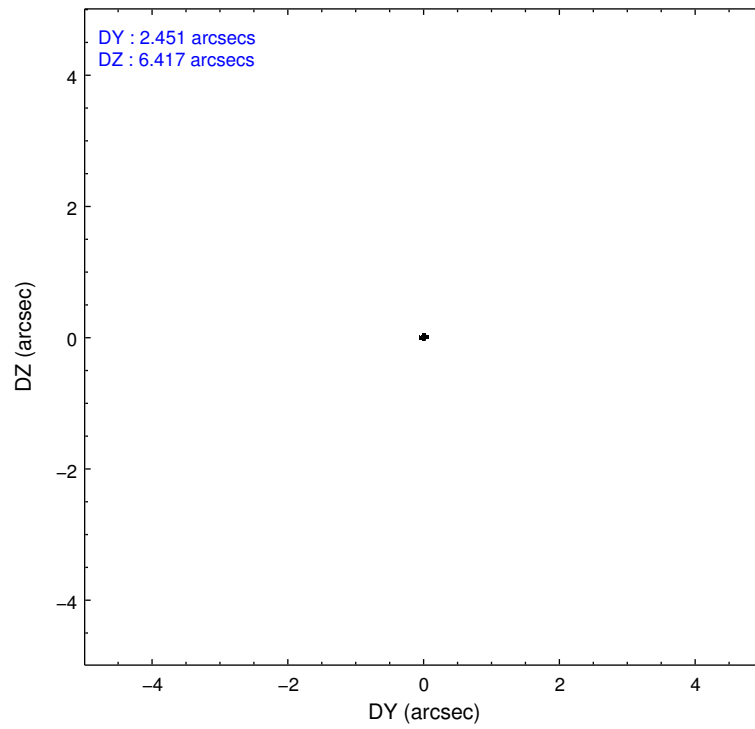
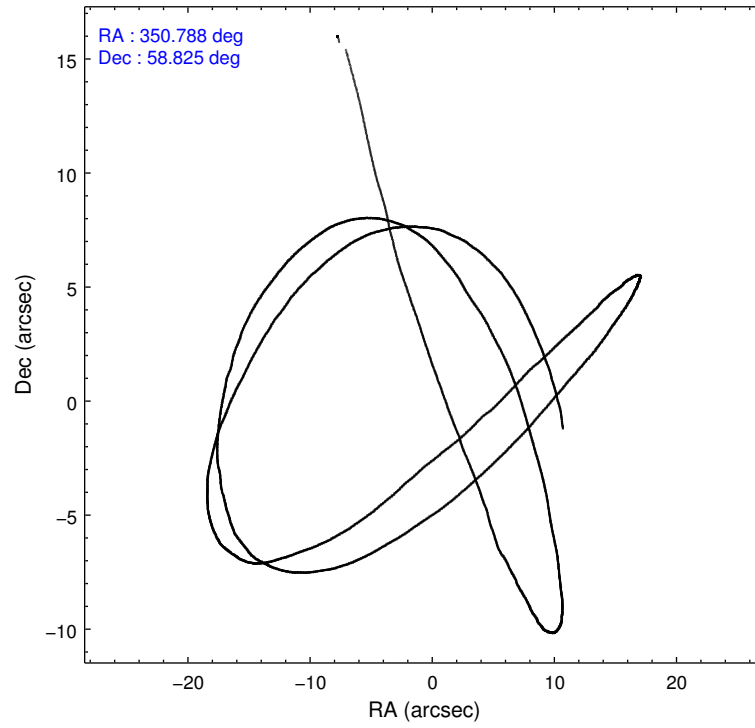
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	0	377313	0	0
rejected events	0	0	0	35219	0	0
rejected %	0%	0%	0%	9%	0%	0%

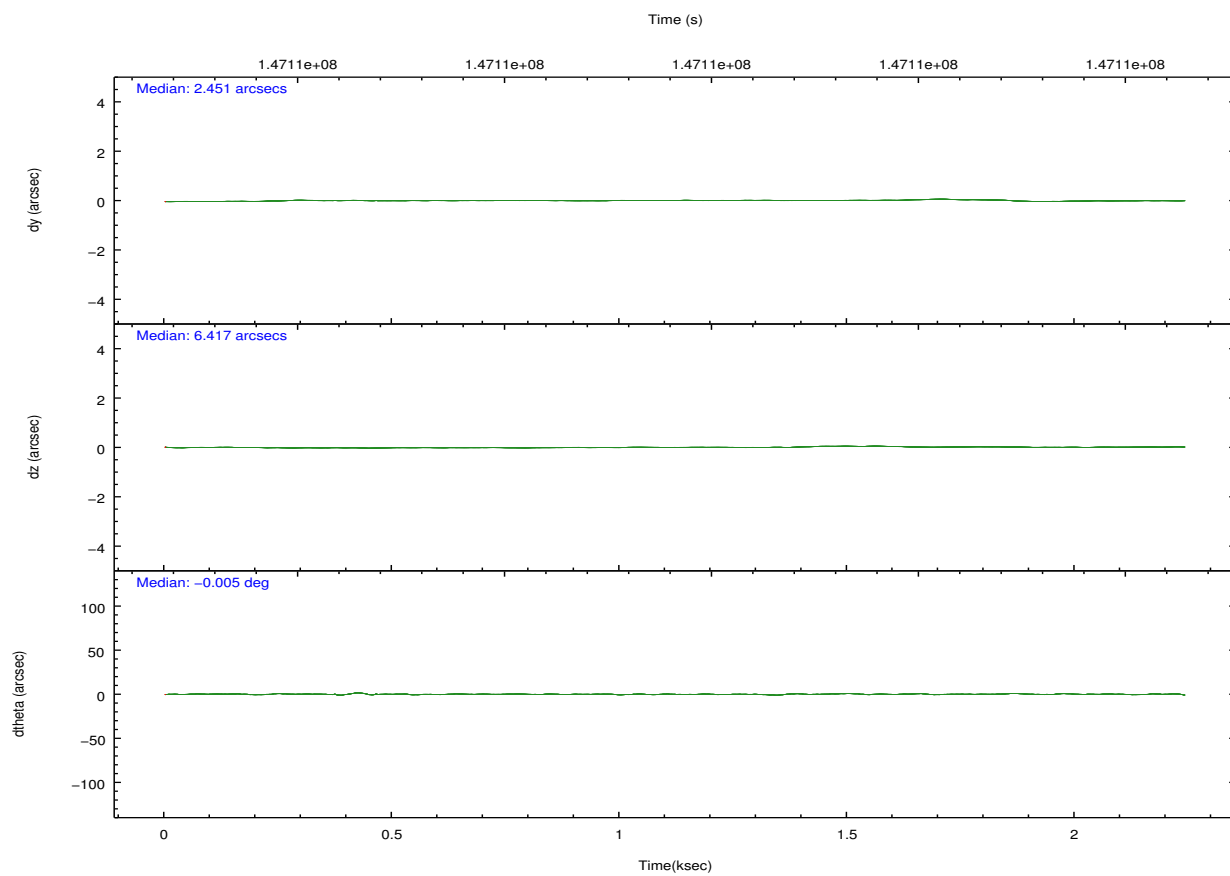
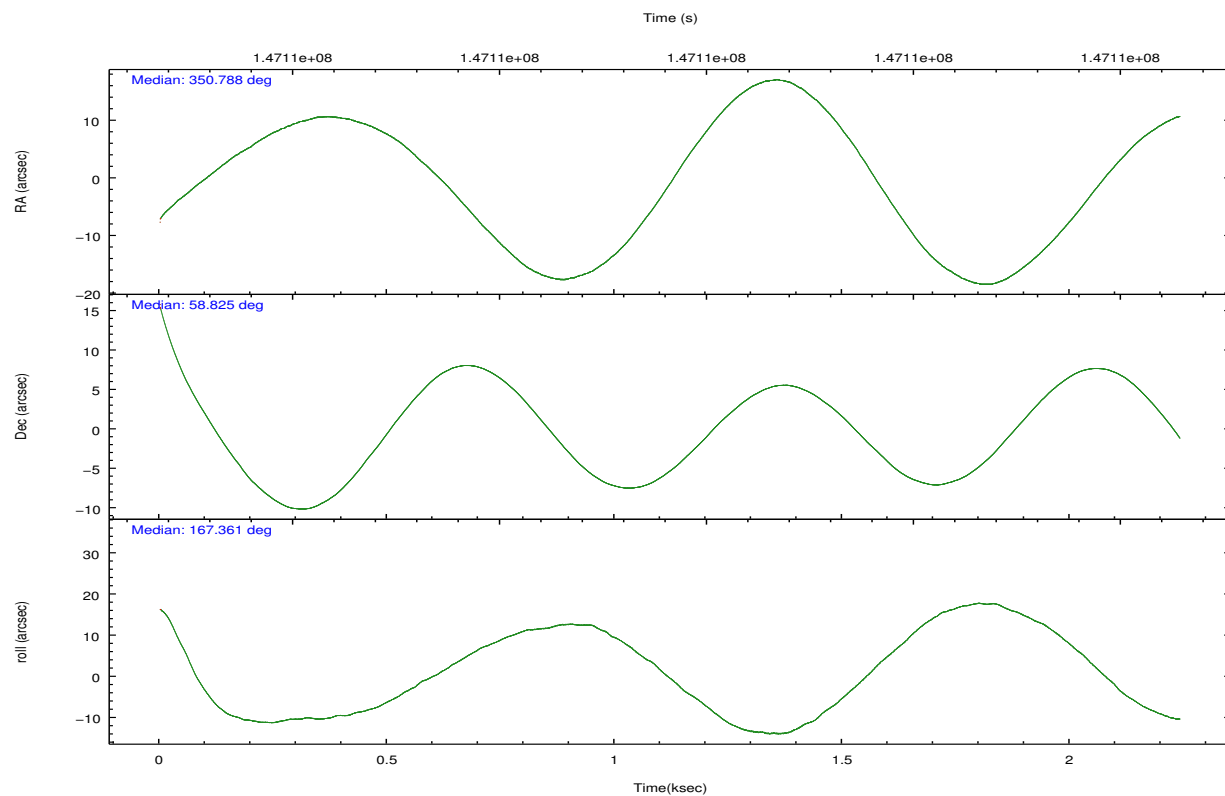
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	0	87674	0	0
	0%	0%	0%	23%	0%	0%
grade 1 events	0	0	0	1795	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	0	91383	0	0
	0%	0%	0%	24%	0%	0%
grade 3 events	0	0	0	39989	0	0
	0%	0%	0%	10%	0%	0%
grade 4 events	0	0	0	40207	0	0
	0%	0%	0%	10%	0%	0%
grade 5 events	0	0	0	6999	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	0	83912	0	0
	0%	0%	0%	22%	0%	0%
grade 7 events	0	0	0	25354	0	0
	0%	0%	0%	6%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	350.837849	350.7879001404801	CCD I2 on	Y	N
[deg] Pointing Dec	58.833214	58.82481433023261	CCD I3 on	Y	N
[deg] Pointing Roll	167.169624	167.3690678295163	CCD S0 on	N	Y
[s] Window start time (MET)	141868864.184000	141868864.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	147312064.184000	147312064.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	Y
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	147112036.184000	147111048.58713	On-chip summing requested	N	N
Observation start date	2002-08-30T16:26:12	2002-08-30T16:10:48	Subarray requested	NONE	NONE
[s] Observation end time (MET)	147114036.184000	147114220.96226	Alternating exposures requested	N	N
Observation end date	2002-08-30T16:59:32	2002-08-30T17:03:40	[s] Primary exposure time	0.000000	3.2
Read mode	TIMED	TIMED			

2.3 Aspect



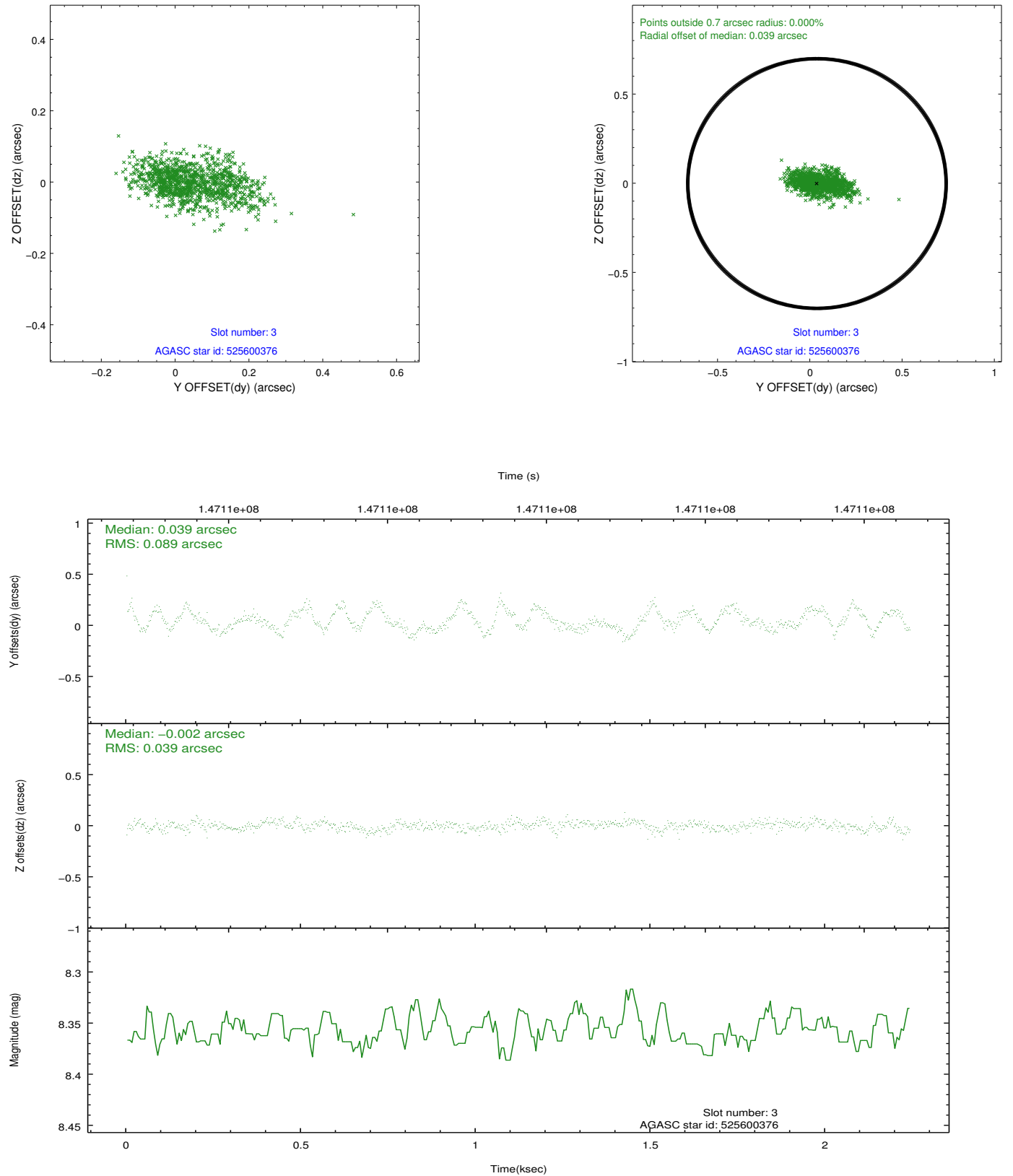


Slot Statistics

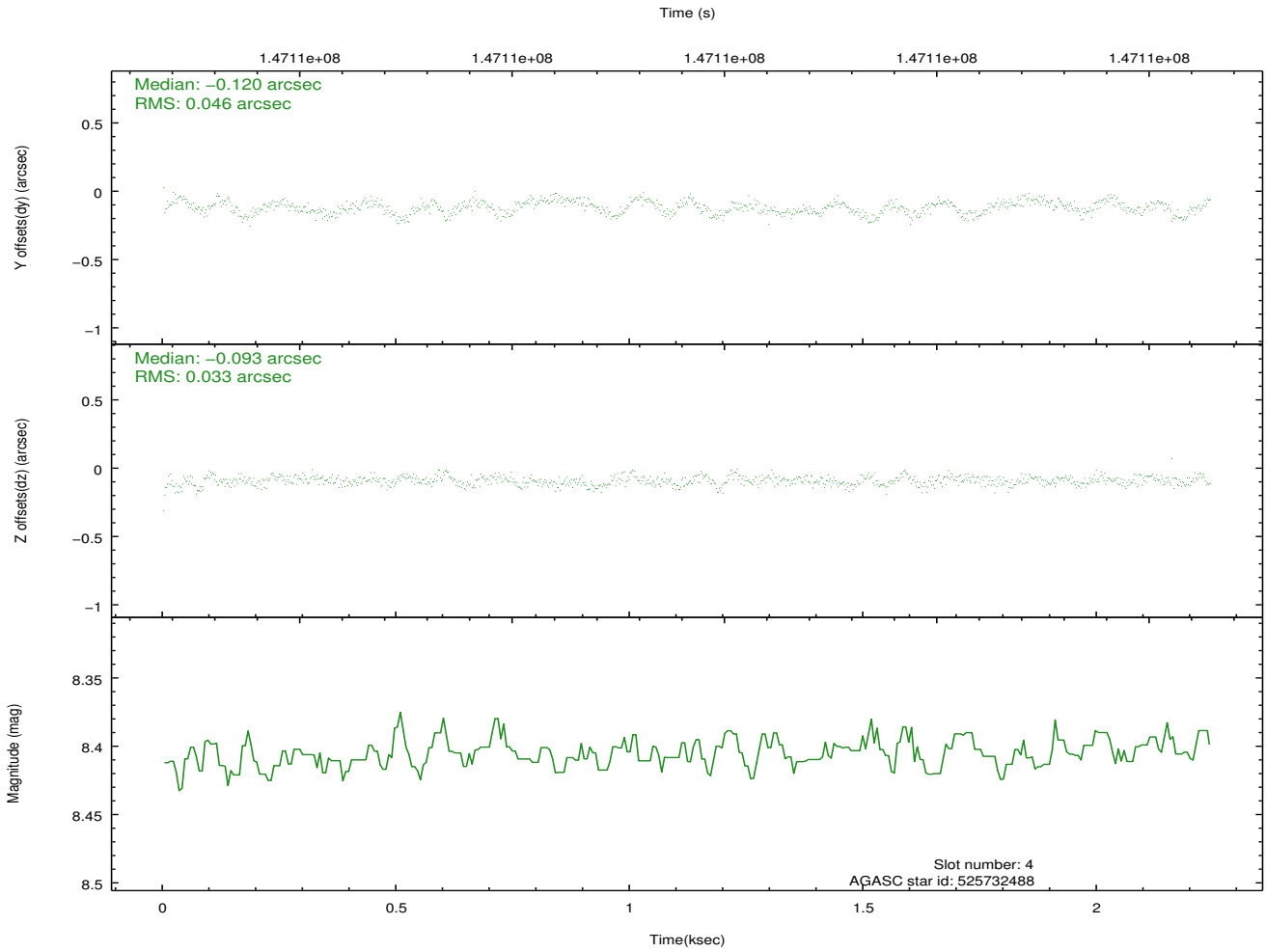
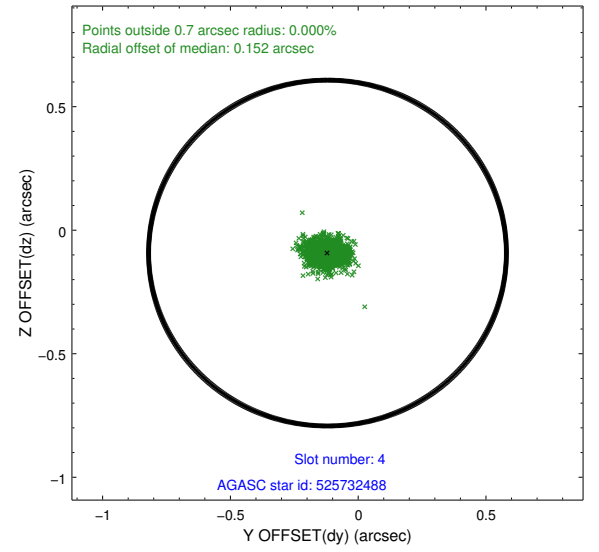
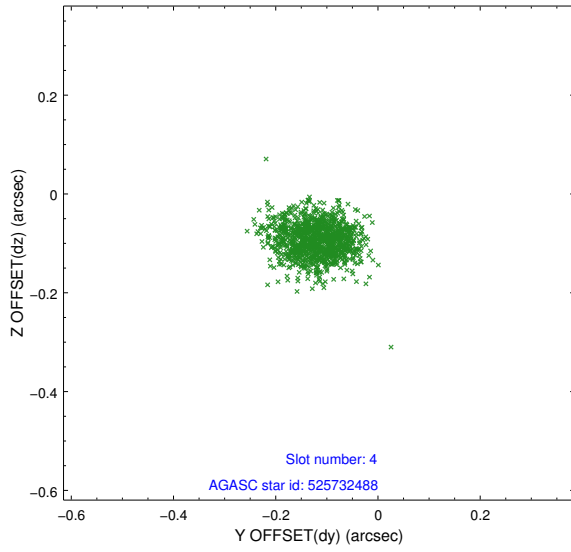
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	546	-0.035	0.010	0.008	0.012	0.000000	0.000000	-755.09	-1727.57
1	FID	ACIS-S-4	7.20	547	-0.020	0.014	0.006	0.010	0.000000	0.000000	2156.87	177.96
2	FID	ACIS-S-5	7.24	547	0.024	-0.016	0.006	0.011	0.000000	0.000000	-1804.15	174.85
3	GUIDE	525600376	8.36	1094	0.039	-0.002	0.100	0.174	349.956653	59.633357	2205.46	-2462.16
4	GUIDE	525732488	8.41	1094	-0.120	-0.093	0.061	0.095	350.087090	58.516915	1126.06	1414.17
5	GUIDE	525732232	9.13	1094	0.062	0.192	0.066	0.103	351.669550	58.757012	-1572.95	-84.90
6	GUIDE	525609504	9.07	1093	-0.132	-0.230	0.085	0.130	349.896632	58.356658	1352.54	2055.67
7	GUIDE	525732528	9.37	1092	0.150	0.137	0.107	0.165	351.607241	59.298932	-1003.80	-1954.43

2.4 Star Slots

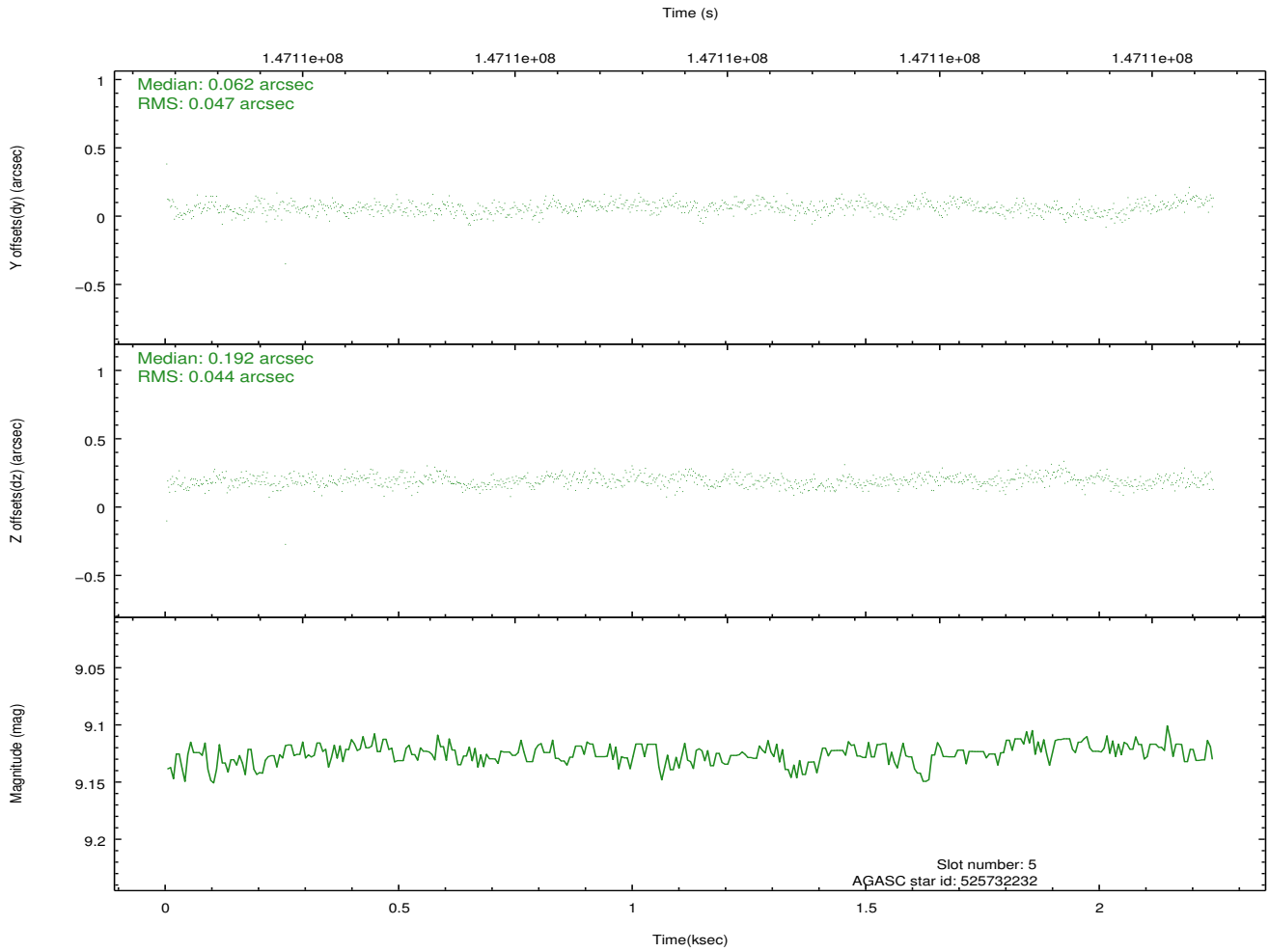
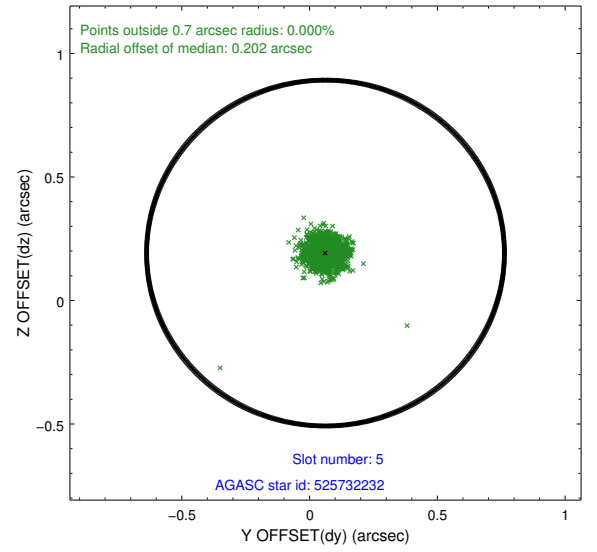
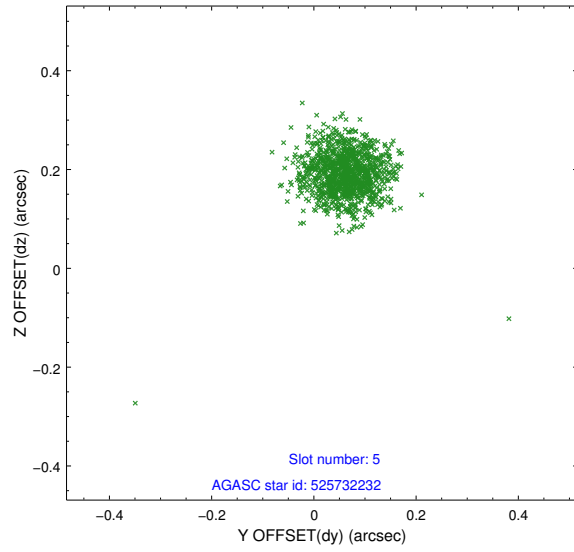
2.4.1 Slot 3



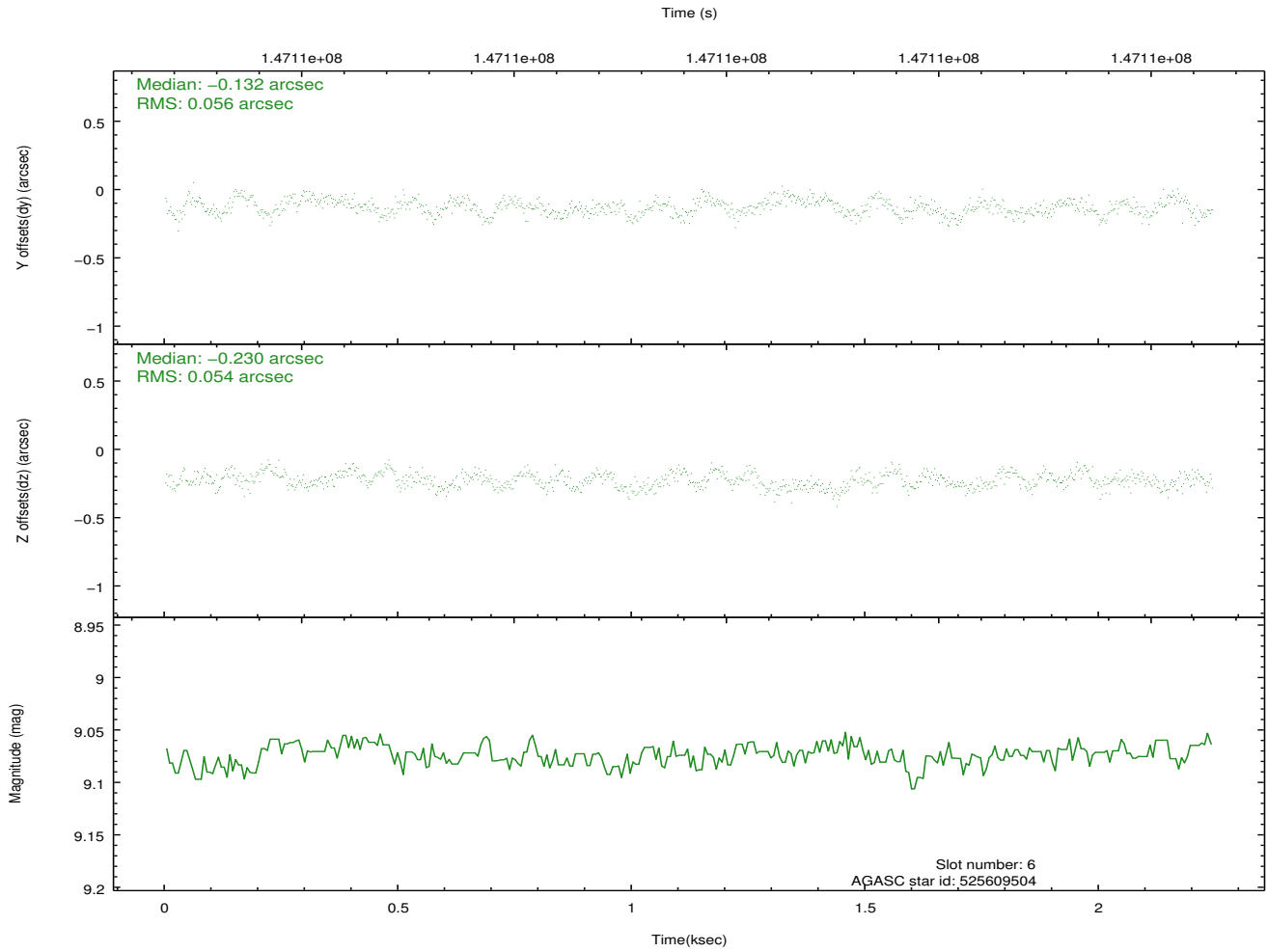
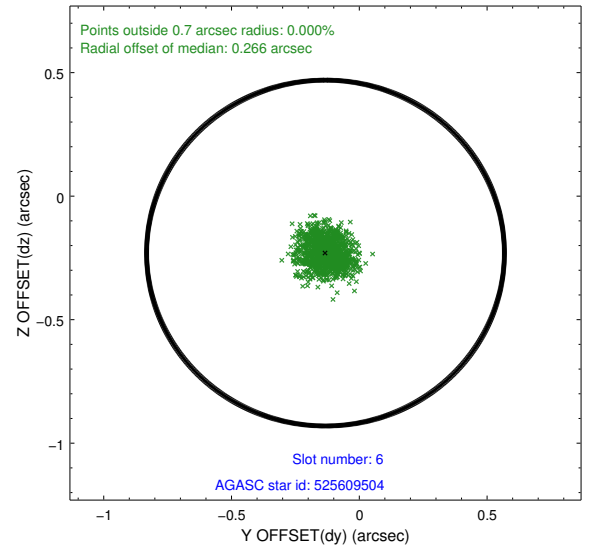
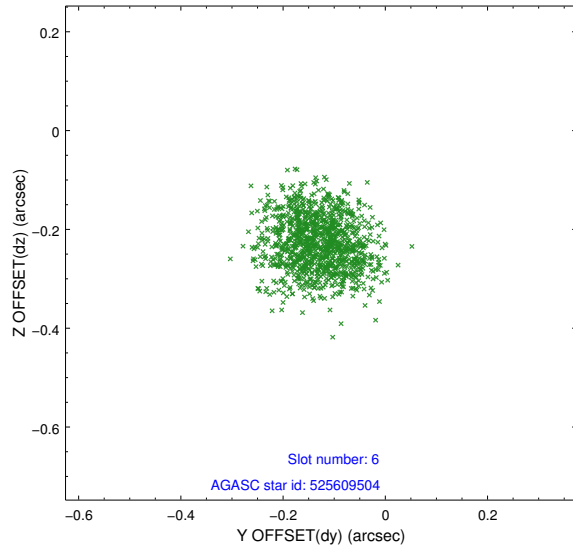
2.4.2 Slot 4



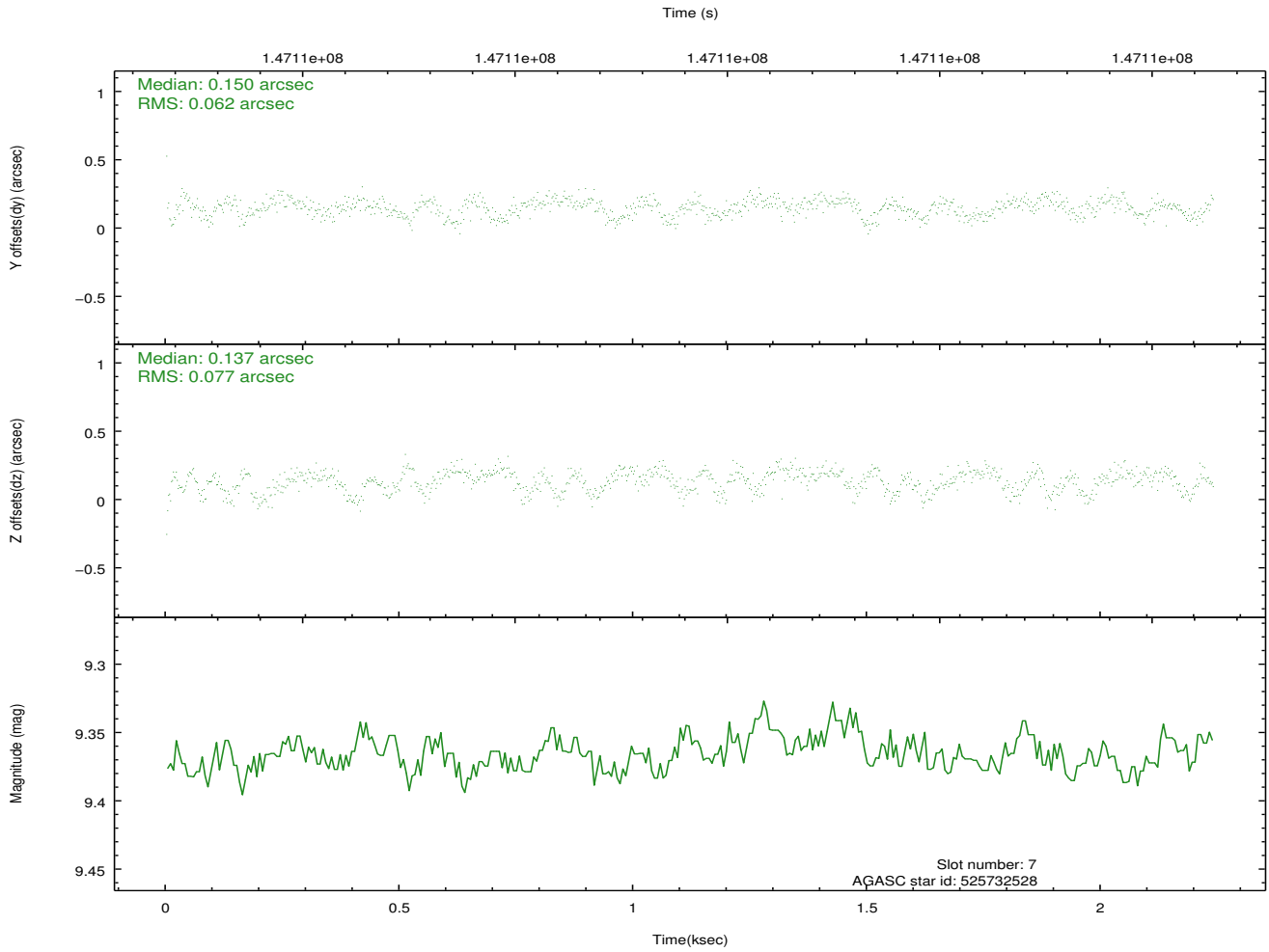
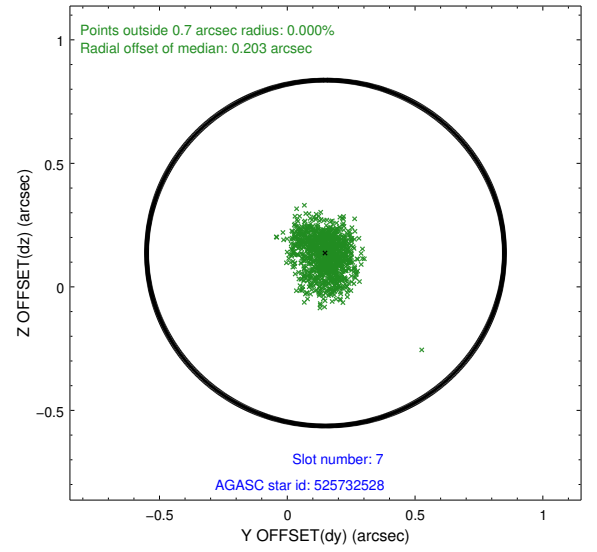
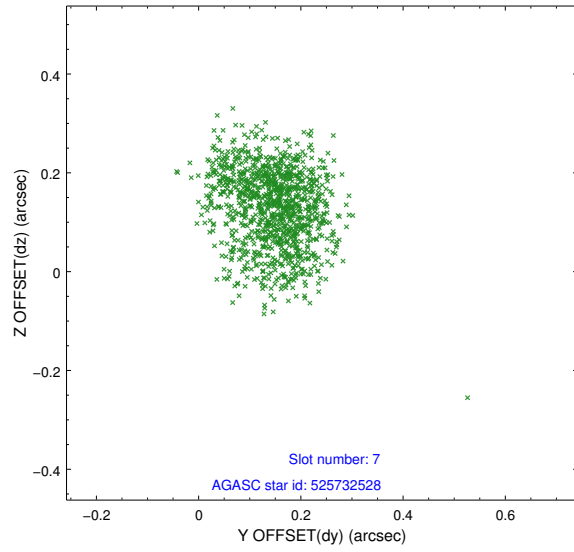
2.4.3 Slot 5



2.4.4 Slot 6

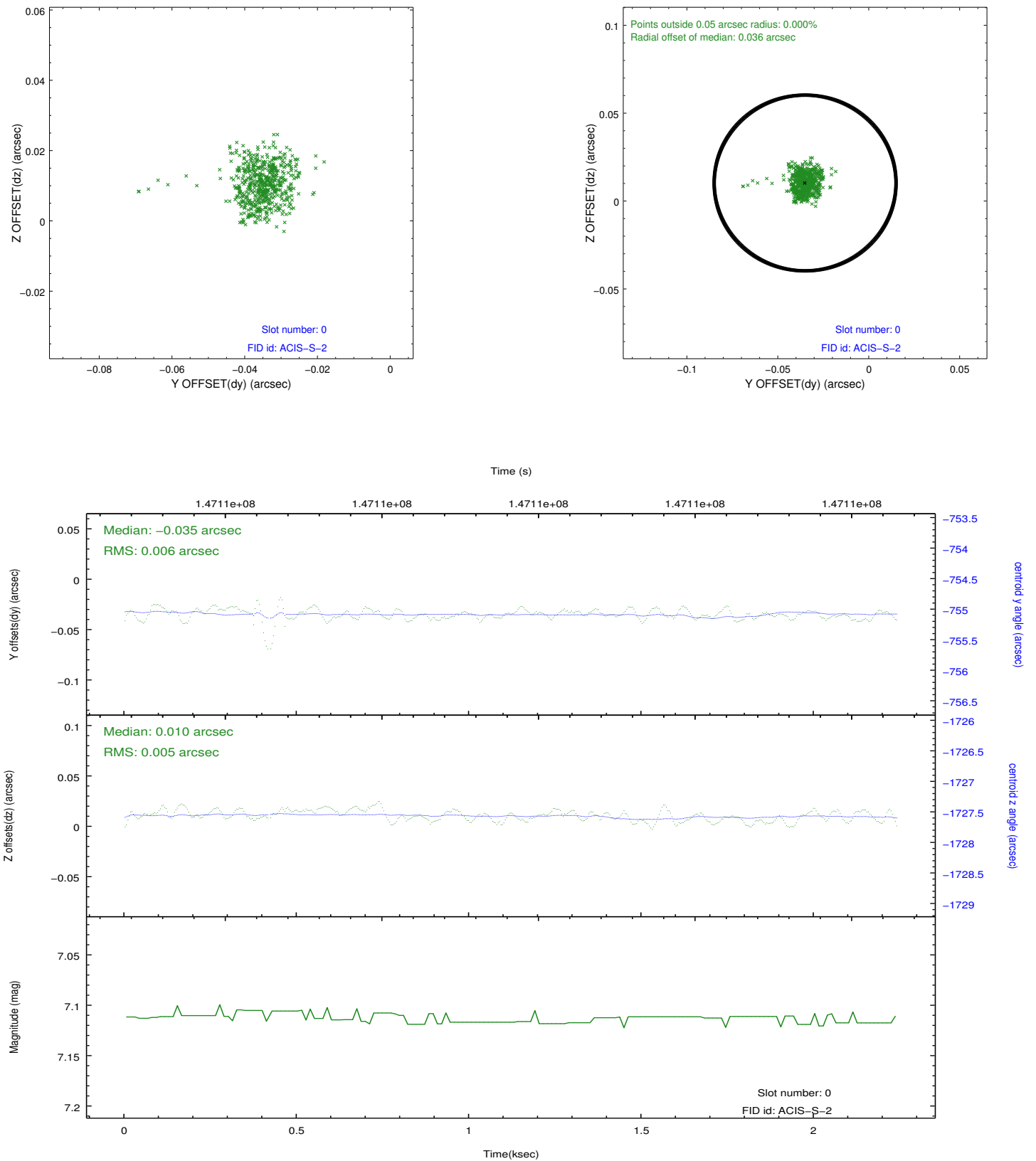


2.4.5 Slot 7

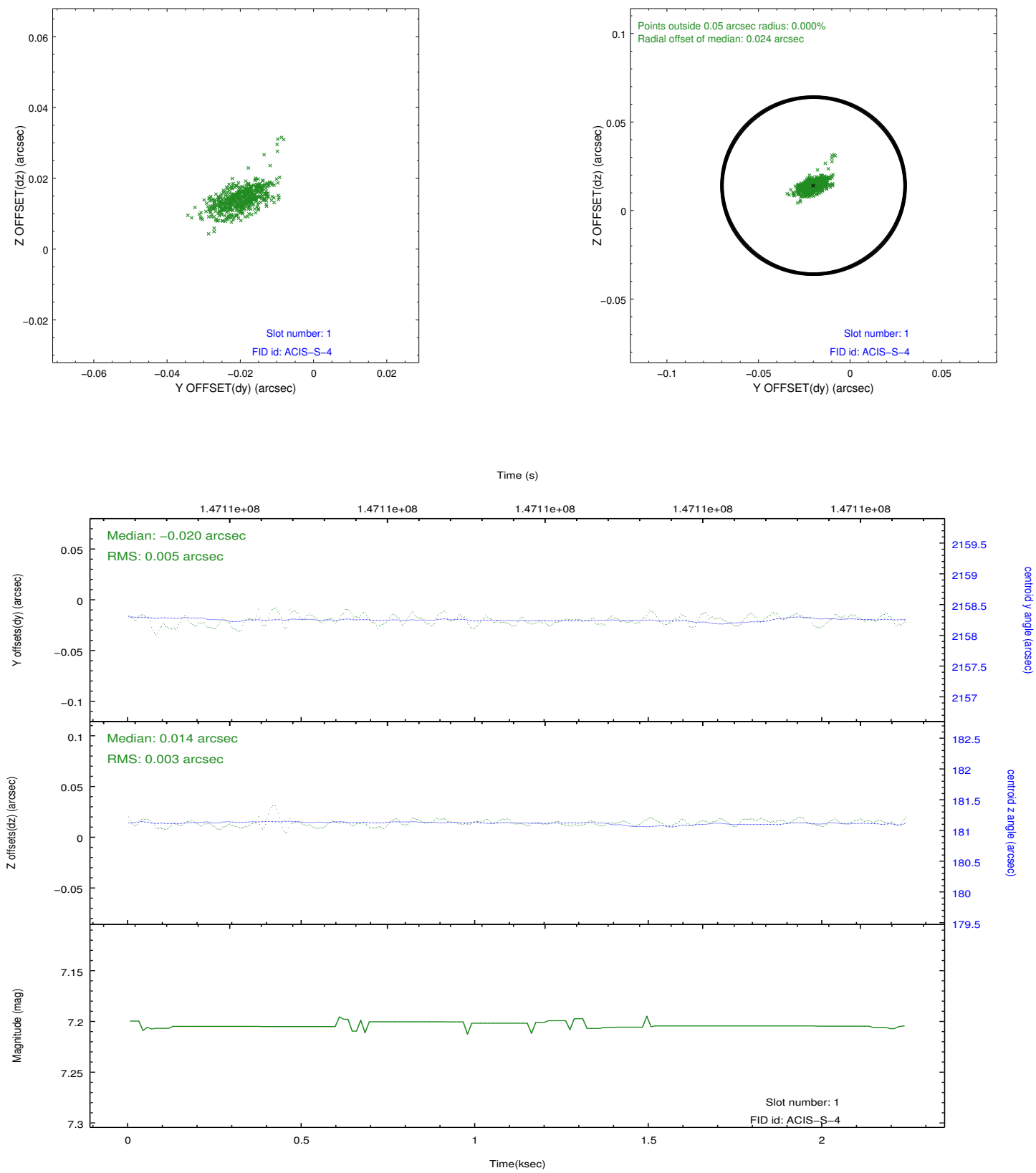


2.5 FID Slots

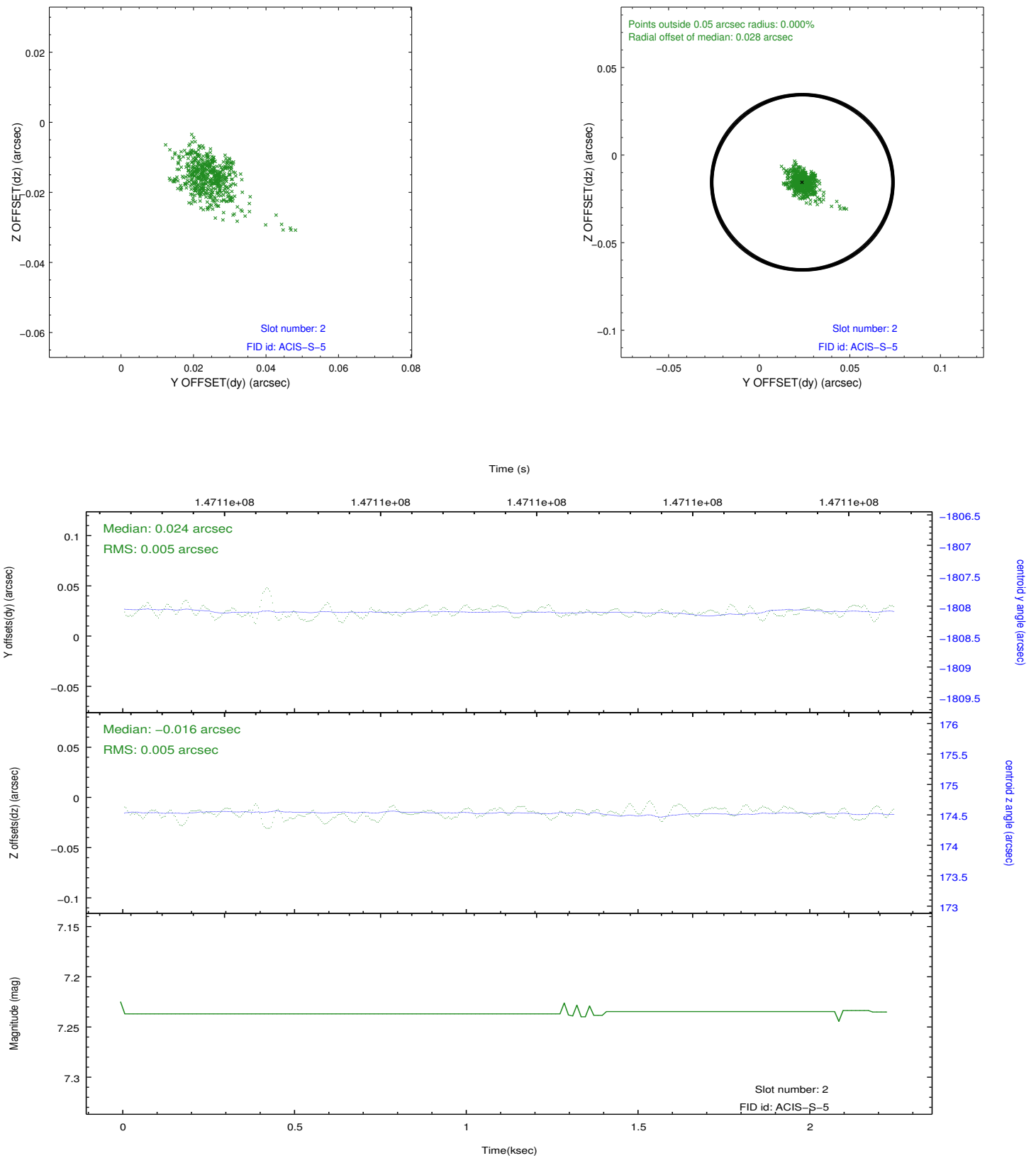
2.5.1 Slot 0



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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.995

A.2 Comments

Charge time for this ObsId remains at original value of 1.955 ks, although with the current processing the charge time would have been 1.0982 ksec. The lower value of ONTIME is based on the telemetry saturation that dropped a significant number of the exposures. Although six chips were power on for this observation, only the chip S3 (CCD_ID = 7) has events due to windowing constraints. Window constraint met.