

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2870 - L2 Version 3
Chandra X-Ray Center

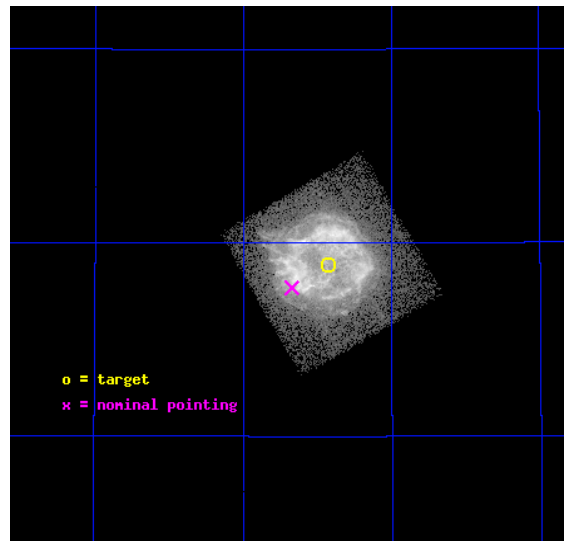
L2 Processing Date : Oct 2 2012

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1 Front

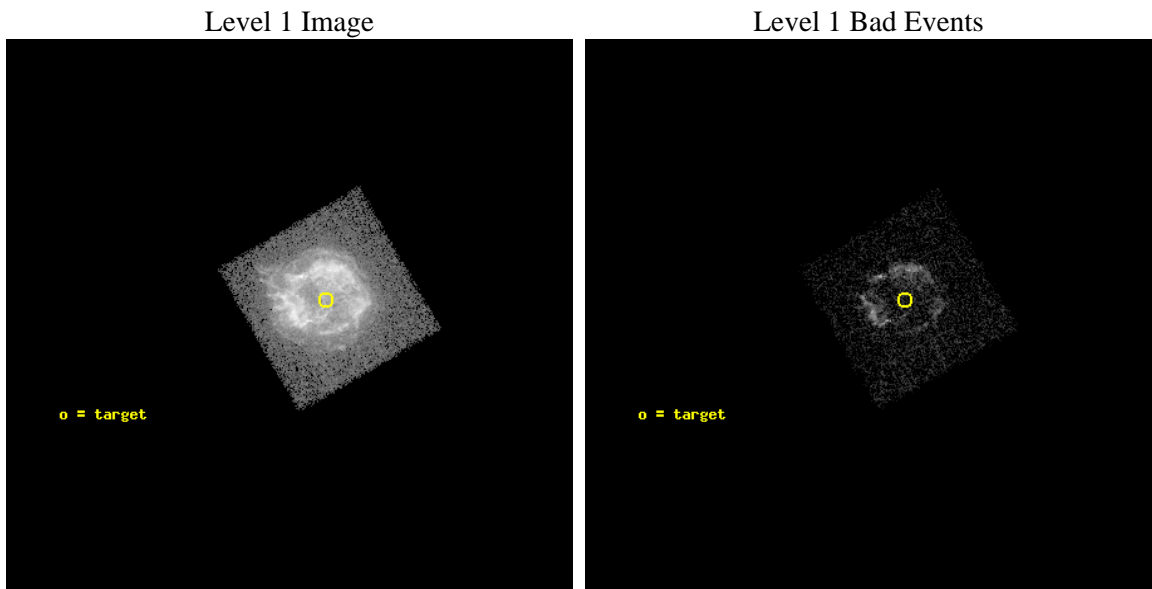
seq_num	590259	Sequence number
obs_id	2870	Observation id
title	AO3A CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S3, T=120, Offsets=-2,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? 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	350.91836514445	Nominal RA [deg]
dec_nom	58.794643012511	Nominal Dec [deg]
roll_nom	330.13289460444	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1084.2158432603	Sum of GTIs [s]
livetime	1070.4868494165	Livetime [s]
ontime4	1926.0723796636	Sum of GTIs [s]
ontime5	1952.000001803	Sum of GTIs [s]
ontime6	1942.2771011293	Sum of GTIs [s]
ontime7	1084.2158432603	Sum of GTIs [s]
ontime8	1952.000001803	Sum of GTIs [s]
ontime9	1952.000001803	Sum of GTIs [s]
l2events	335715	Number of level 2 events



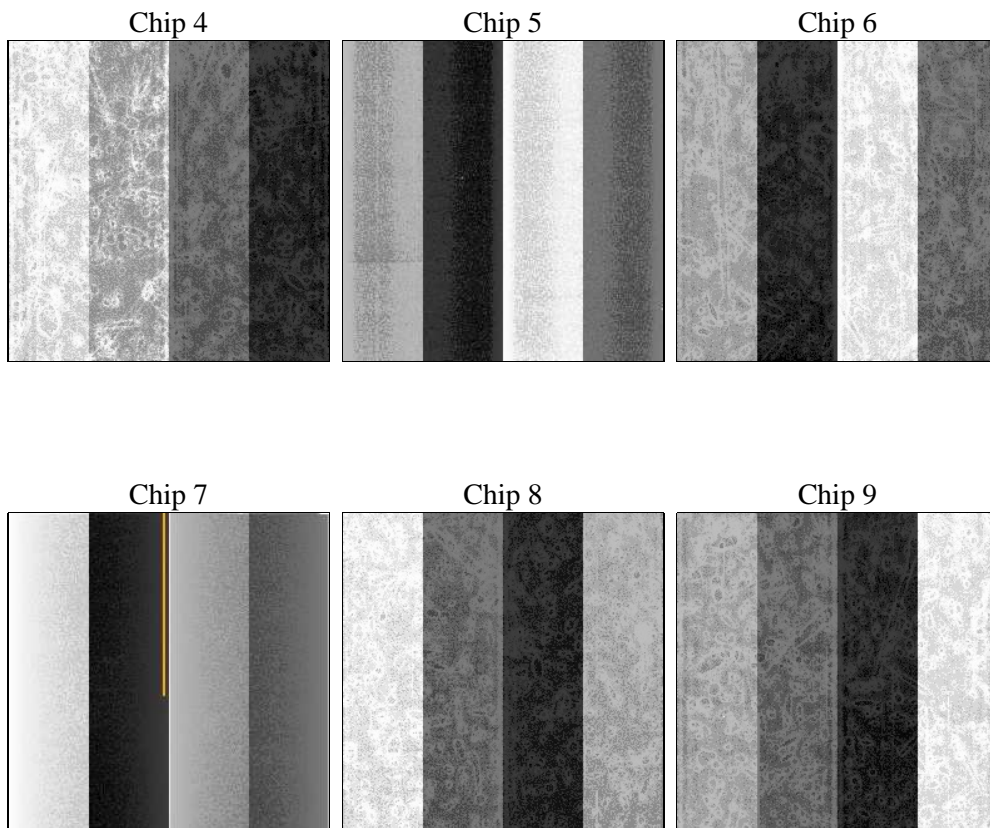
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1084.2158432603	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	1926.0723796636	Sum of GTIs [s]
date	2012-10-02T05:10:18	Date and time of file creation	ontime5	1952.000001803	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1942.2771011293	Sum of GTIs [s]
			ontime7	1084.2158432603	Sum of GTIs [s]
			ontime8	1952.000001803	Sum of GTIs [s]
			ontime9	1952.000001803	Sum of GTIs [s]
			l1events	376892	Number of level 1 events

2.1.4 Events

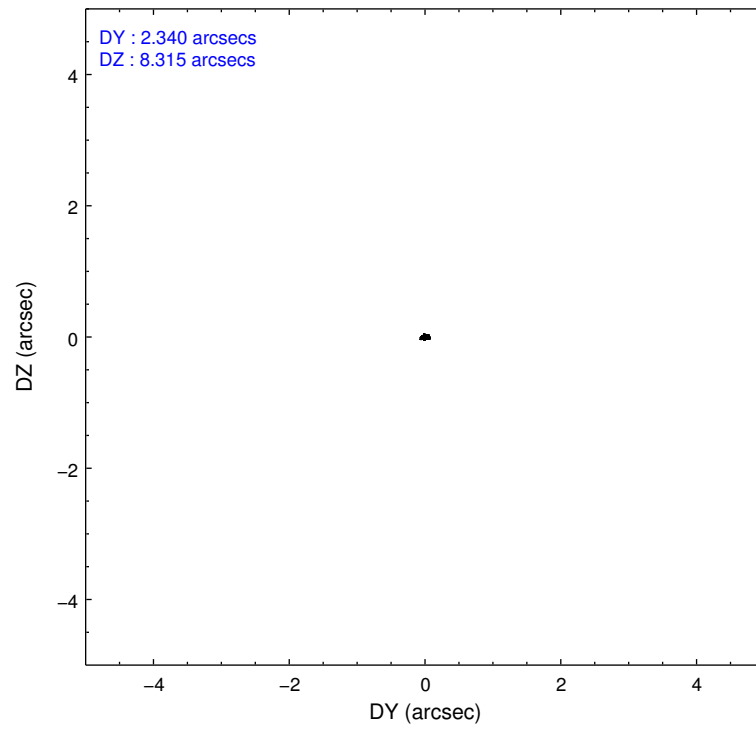
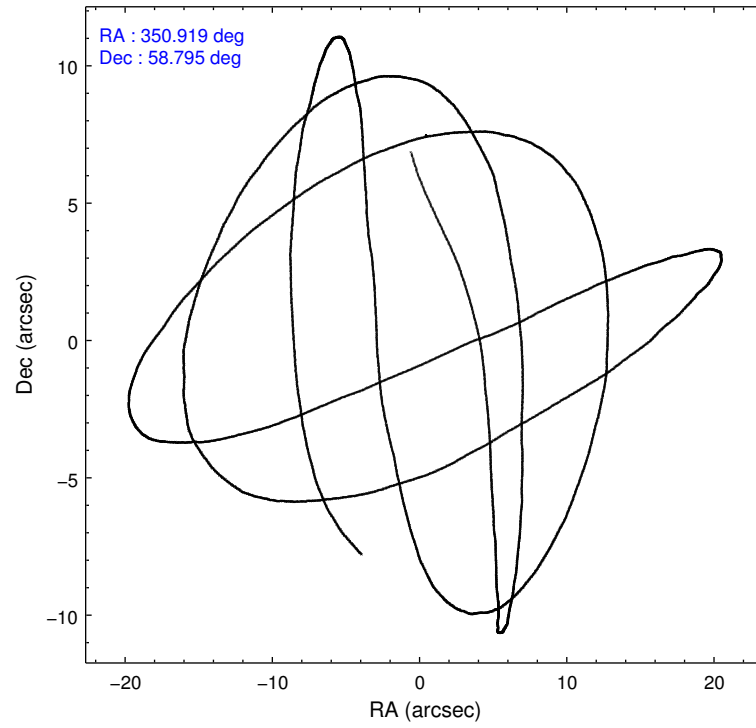
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	0	376892	0	0
rejected events	0	0	0	37511	0	0
rejected %	0%	0%	0%	9%	0%	0%

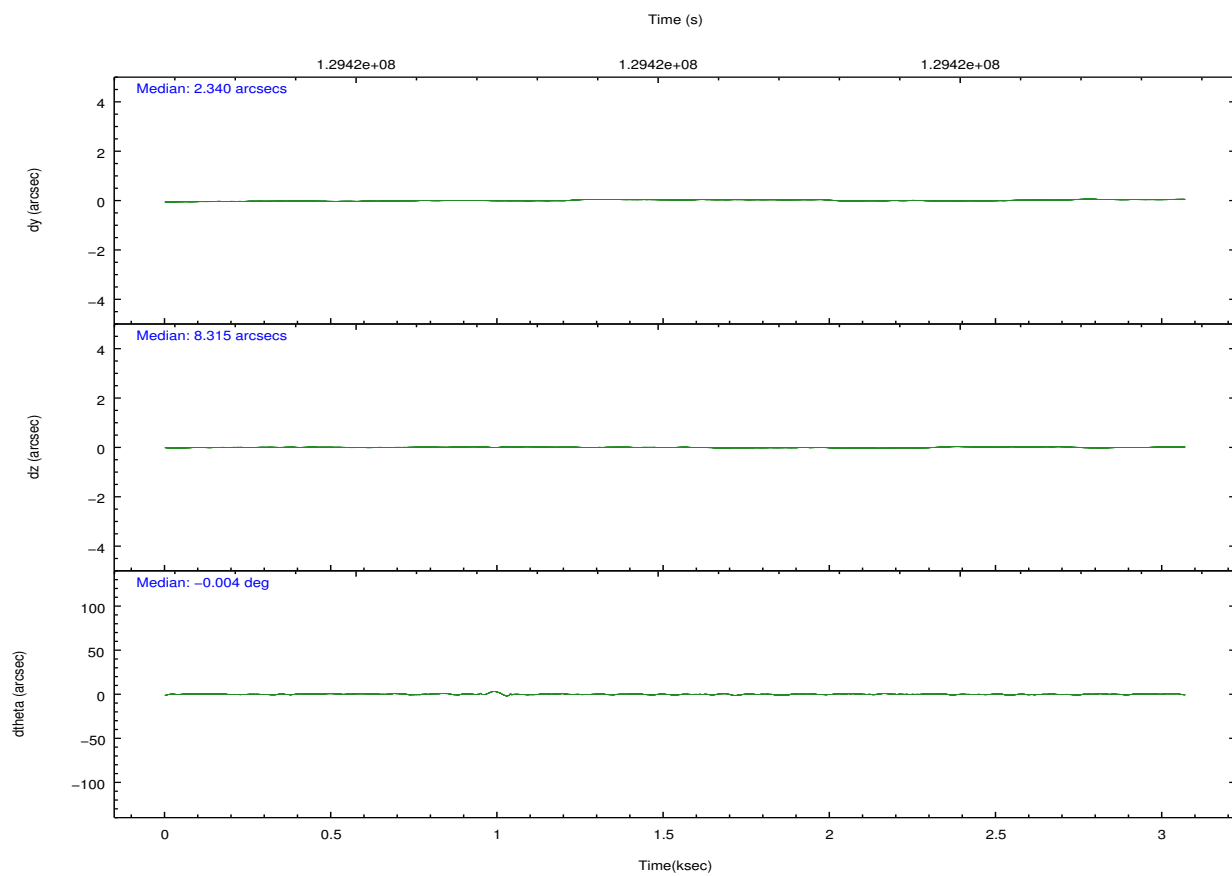
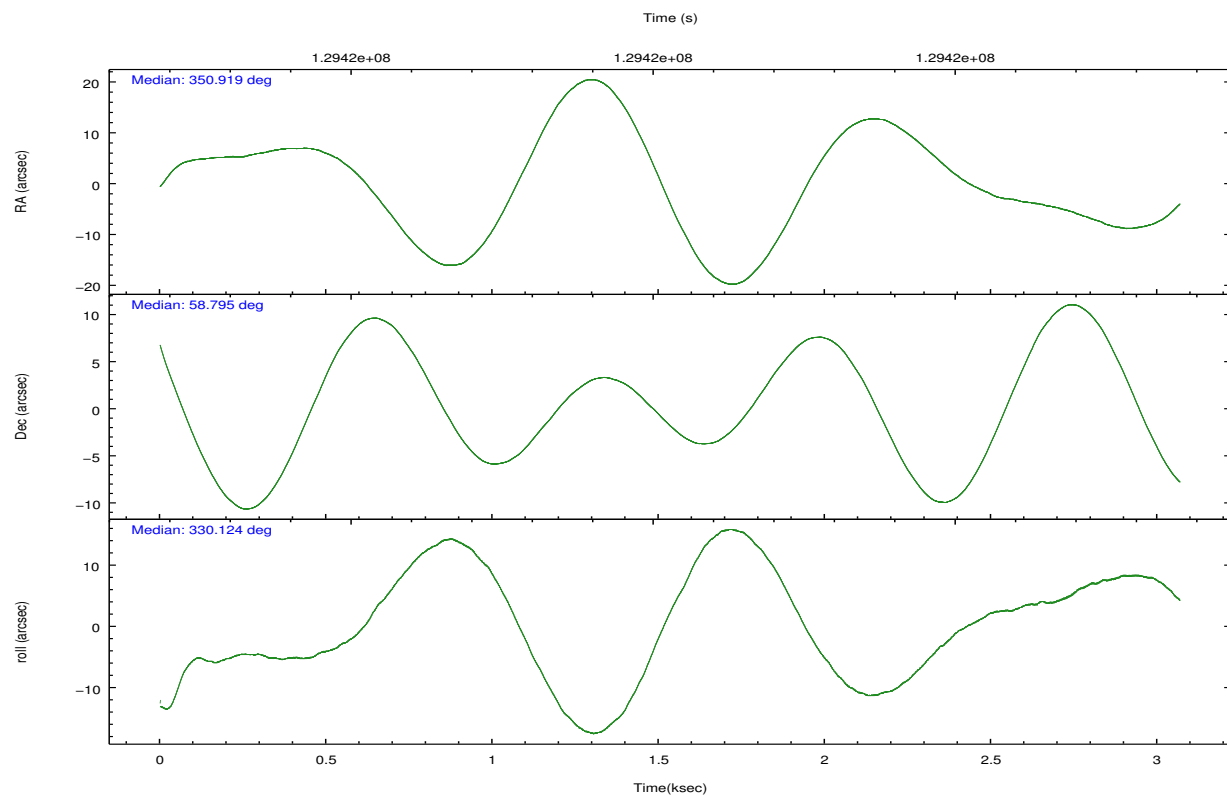
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	0	85741	0	0
	0%	0%	0%	22%	0%	0%
grade 1 events	0	0	0	1756	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	0	90701	0	0
	0%	0%	0%	24%	0%	0%
grade 3 events	0	0	0	40077	0	0
	0%	0%	0%	10%	0%	0%
grade 4 events	0	0	0	40054	0	0
	0%	0%	0%	10%	0%	0%
grade 5 events	0	0	0	7078	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	0	83842	0	0
	0%	0%	0%	22%	0%	0%
grade 7 events	0	0	0	27643	0	0
	0%	0%	0%	7%	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	350.865801	350.9183651444489	CCD I2 on	Y	N
[deg] Pointing Dec	58.794267	58.79464301251106	CCD I3 on	Y	N
[deg] Pointing Roll	330.021248	330.1328946044443	CCD S0 on	N	Y
[s] Window start time (MET)	126230464.184000	126230464.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	131241664.184000	131241664.184000	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)	129416590.184000	129415188.54004	On-chip summing requested	N	N
Observation start date	2002-02-06T21:02:06	2002-02-06T20:39:48	Subarray requested	NONE	NONE
[s] Observation end time (MET)	129418590.184000	129418723.76518	Alternating exposures requested	N	N
Observation end date	2002-02-06T21:35:26	2002-02-06T21:38:43	[s] Primary exposure time	0.000000	3.2
Read mode	TIMED	TIMED			

2.3 Aspect



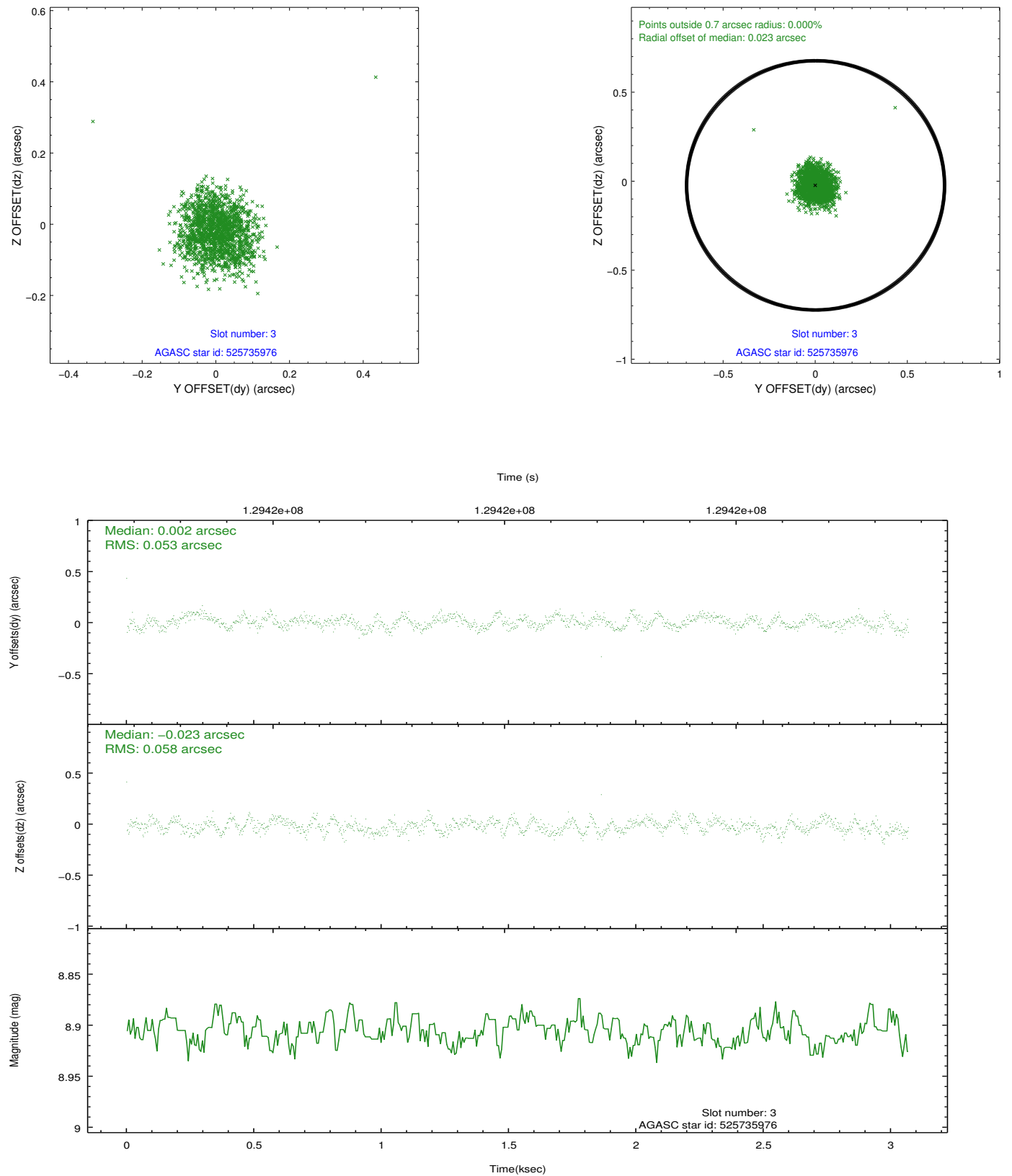


Slot Statistics

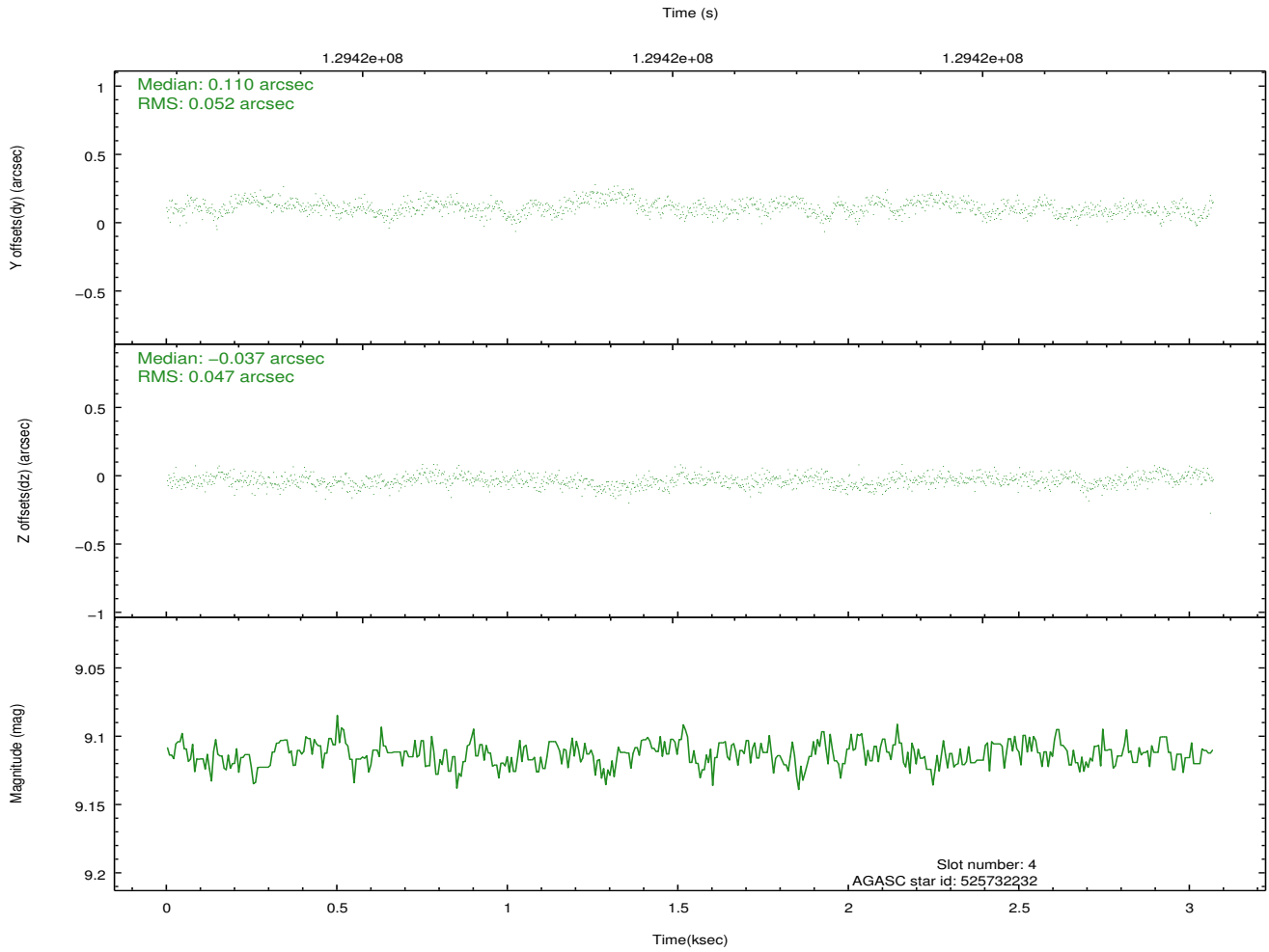
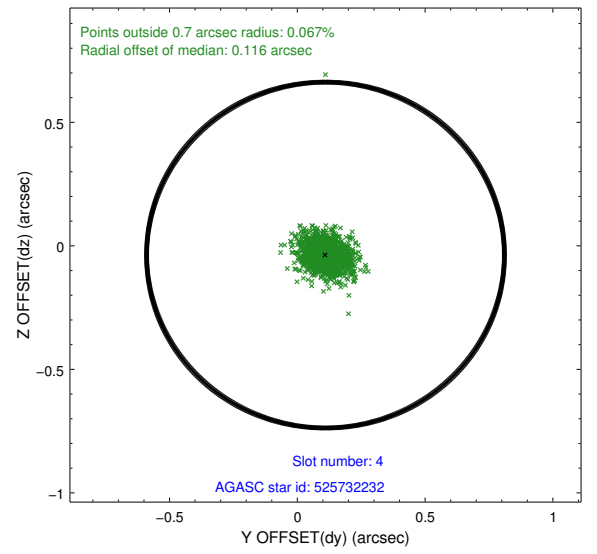
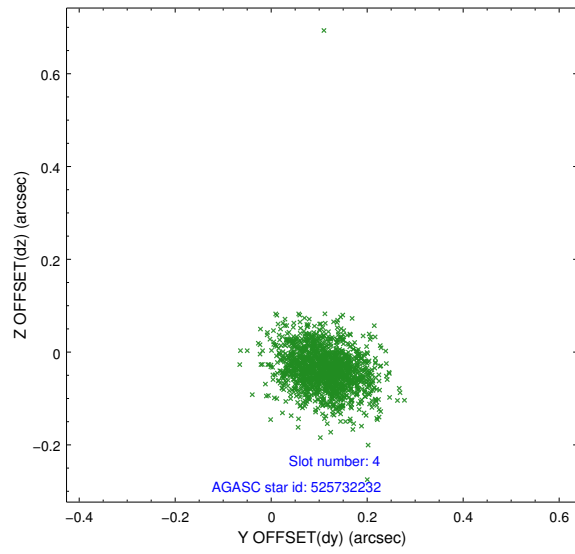
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	749	0.040	0.006	0.007	0.012	0.000000	0.000000	941.06	-1725.16
1	FID	ACIS-S-4	7.20	749	-0.075	-0.019	0.006	0.010	0.000000	0.000000	2159.56	176.81
2	FID	ACIS-S-5	7.23	749	0.008	0.026	0.005	0.011	0.000000	0.000000	-1805.12	172.88
3	GUIDE	525735976	8.91	1498	0.002	-0.023	0.085	0.127	350.142956	58.277622	-259.20	-2288.90
4	GUIDE	525732232	9.11	1497	0.110	-0.037	0.072	0.121	351.669550	58.757012	1362.64	639.66
5	GUIDE	525736400	9.07	1495	-0.027	0.104	0.064	0.107	350.974563	59.175145	-510.77	1288.12
6	GUIDE	525609504	9.07	1497	-0.019	0.033	0.086	0.138	349.896632	58.356658	-805.04	-2267.47
7	GUIDE	525737208	9.37	1497	-0.069	-0.069	0.092	0.144	351.154109	59.407897	-647.82	2176.33

2.4 Star Slots

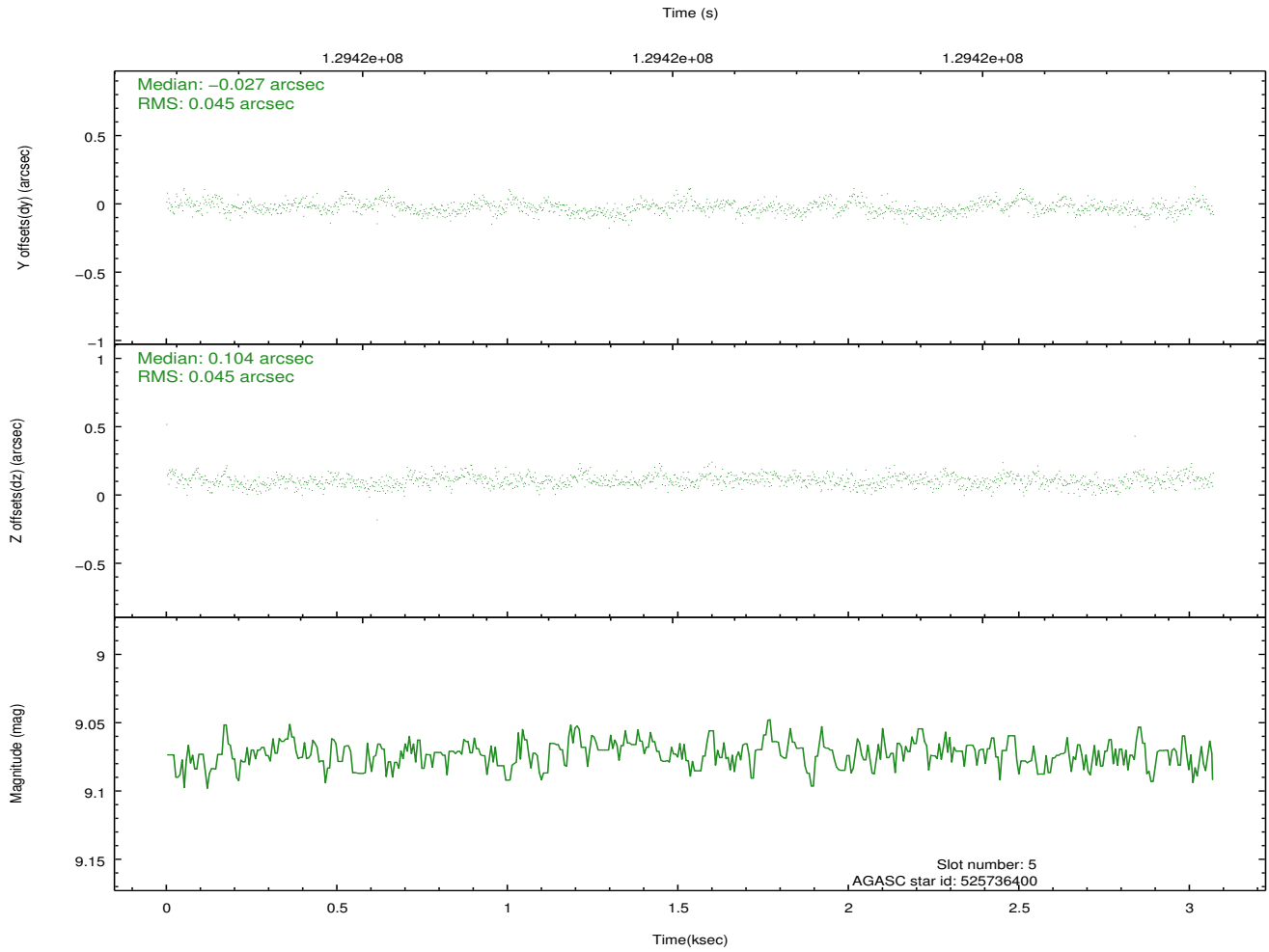
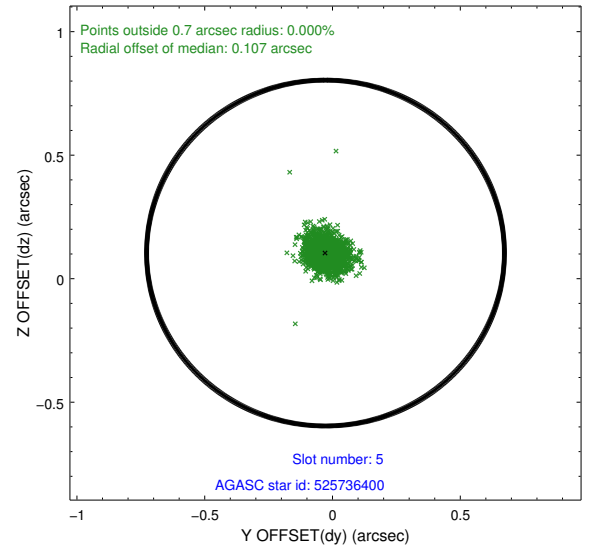
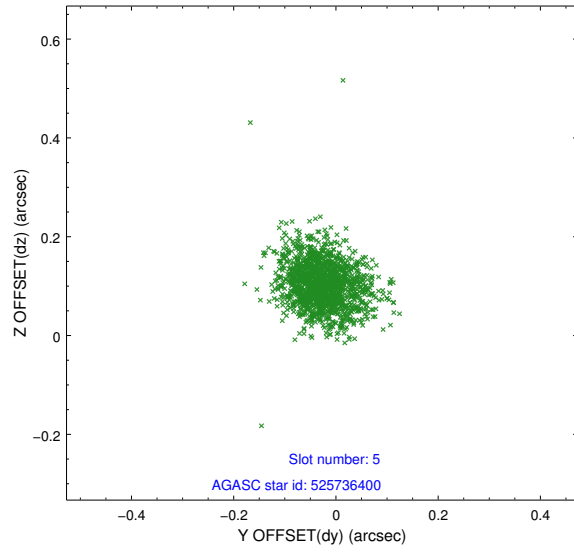
2.4.1 Slot 3



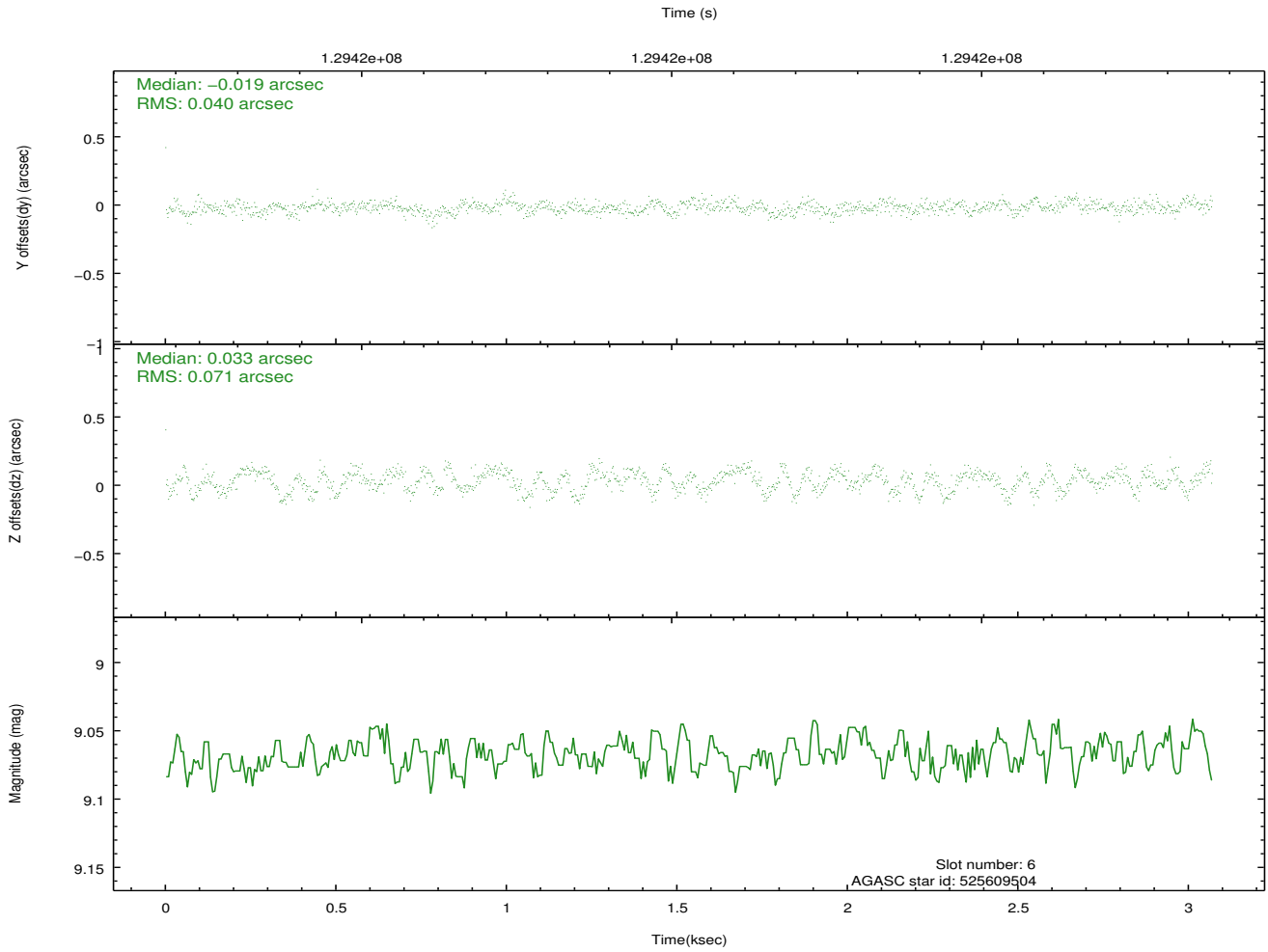
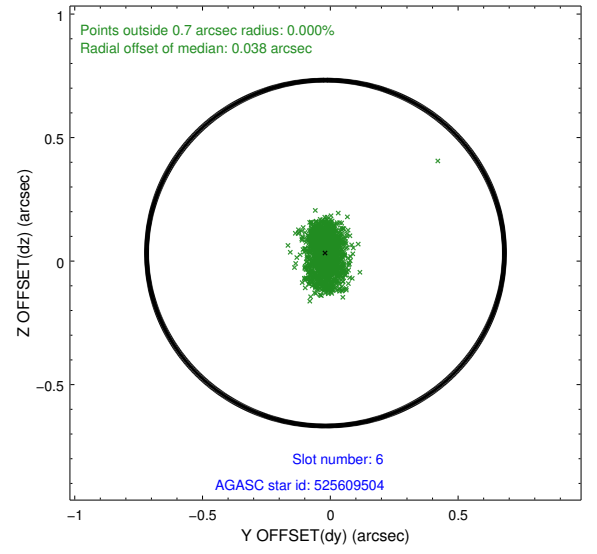
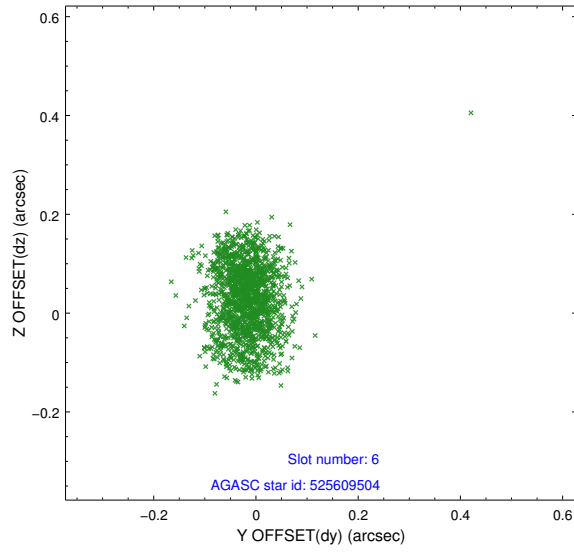
2.4.2 Slot 4



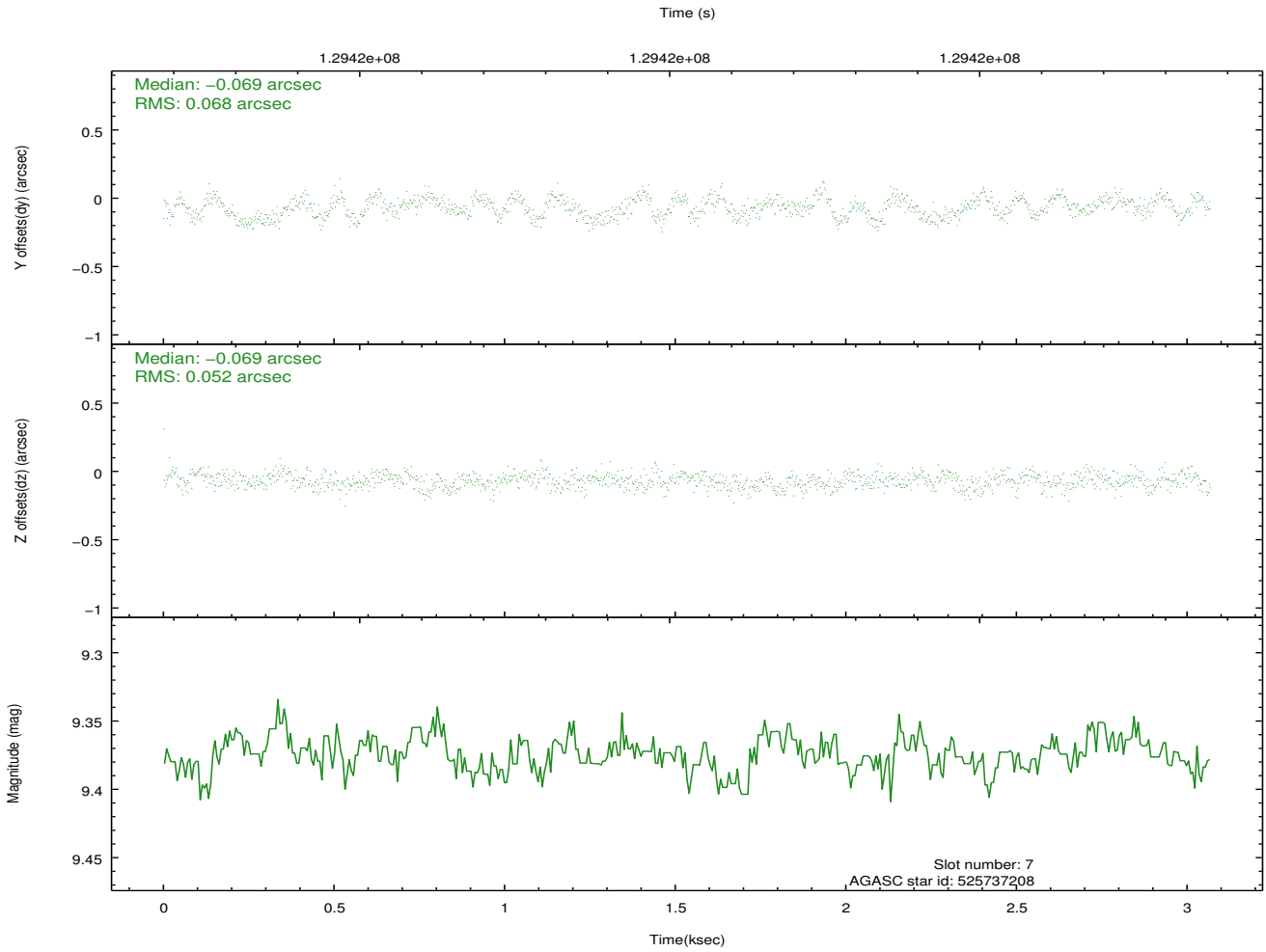
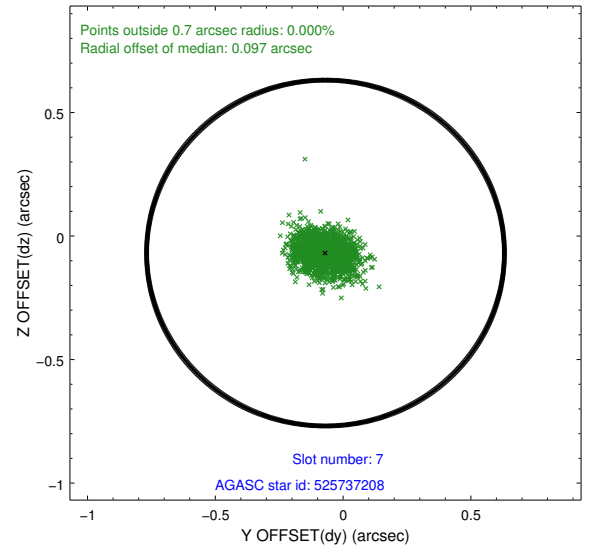
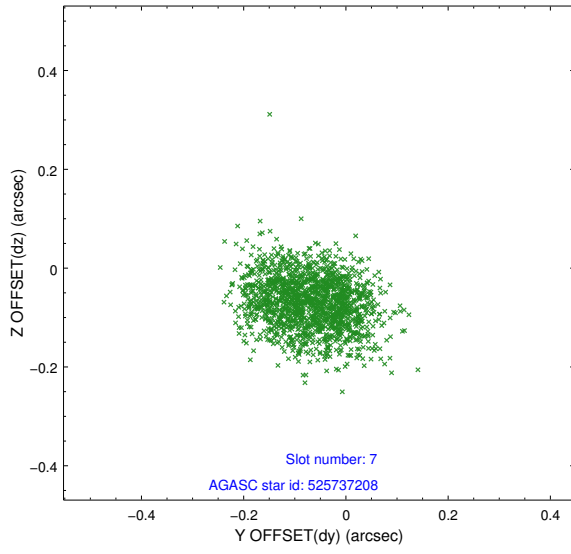
2.4.3 Slot 5



2.4.4 Slot 6

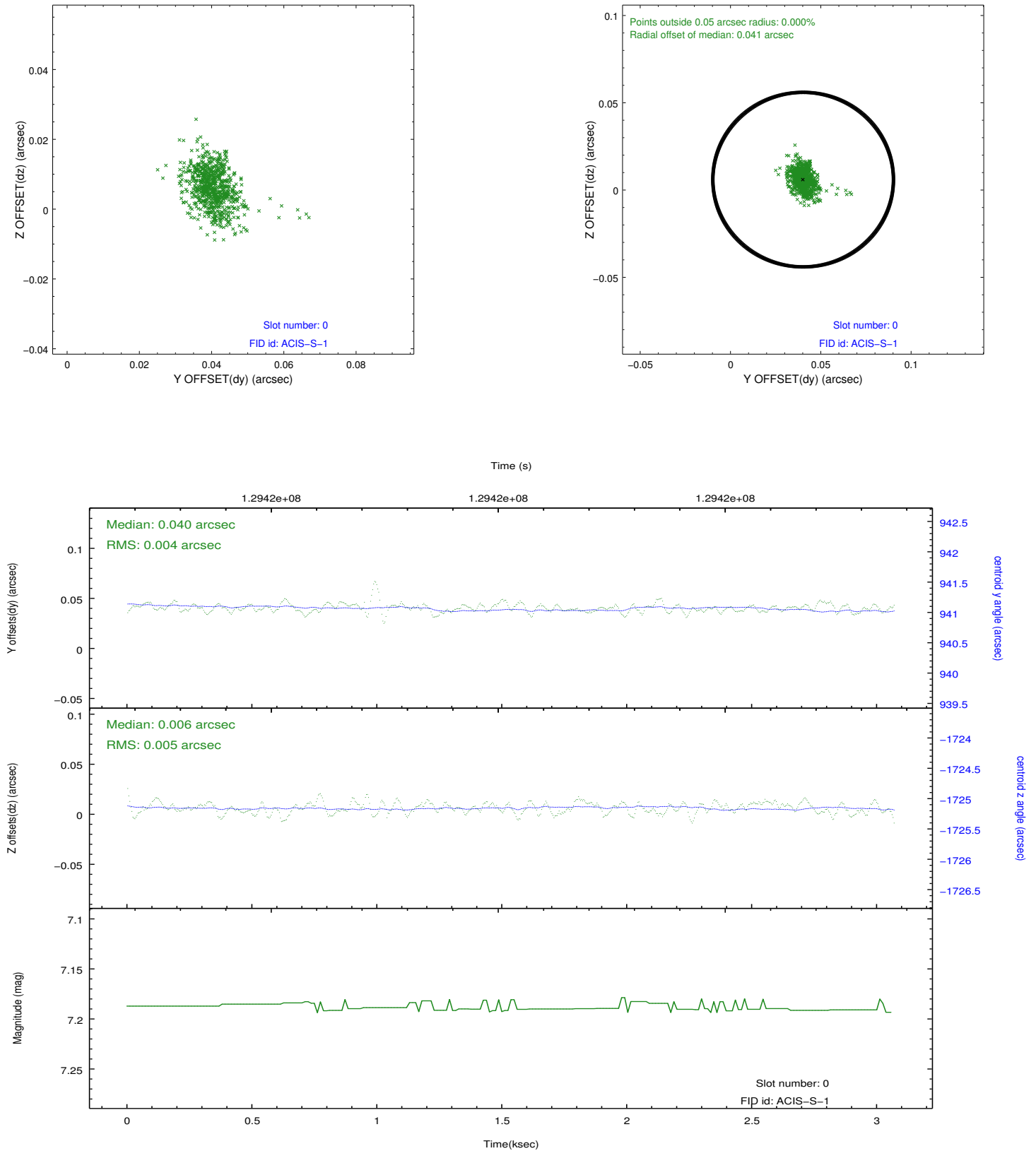


2.4.5 Slot 7

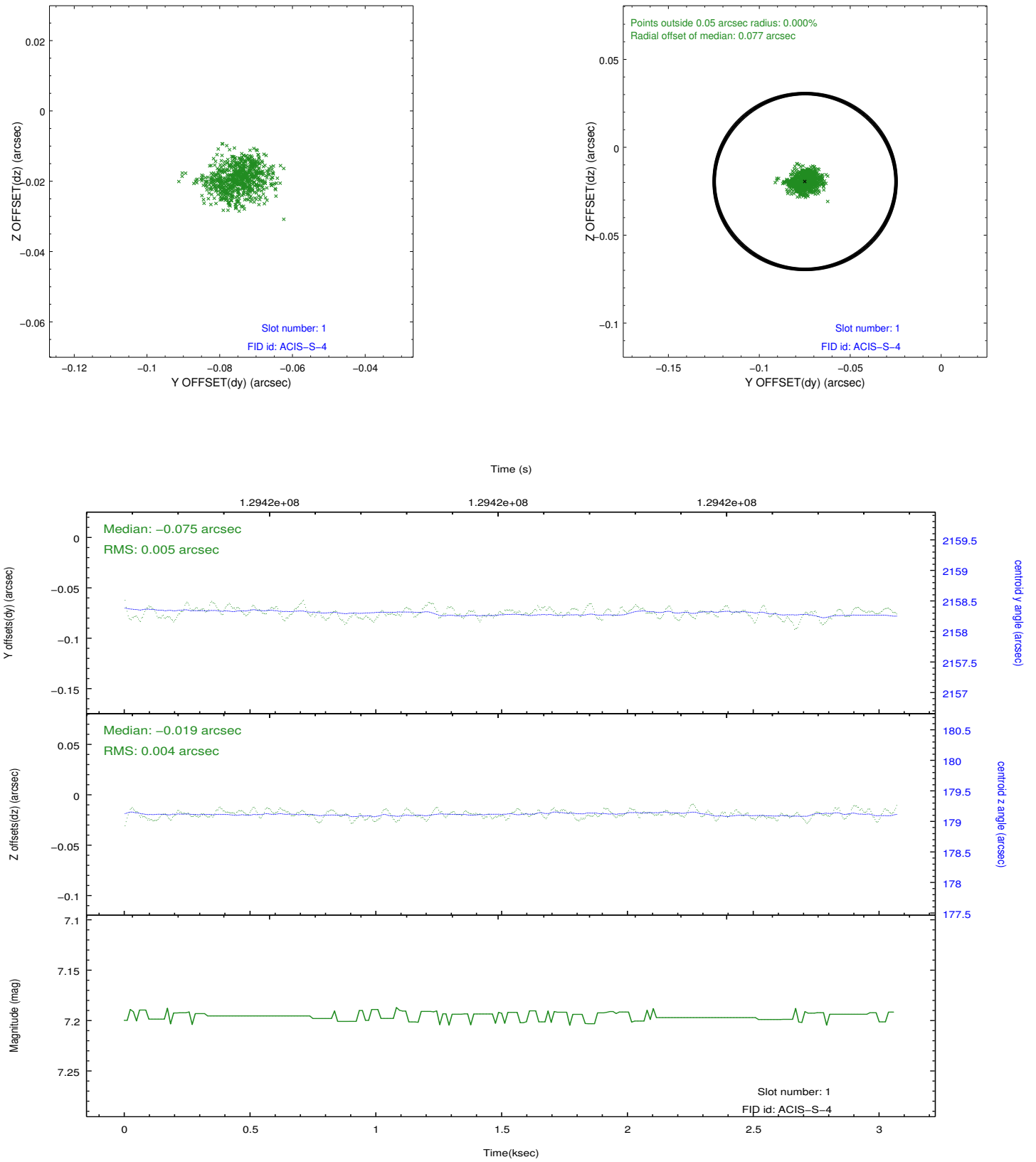


2.5 FID Slots

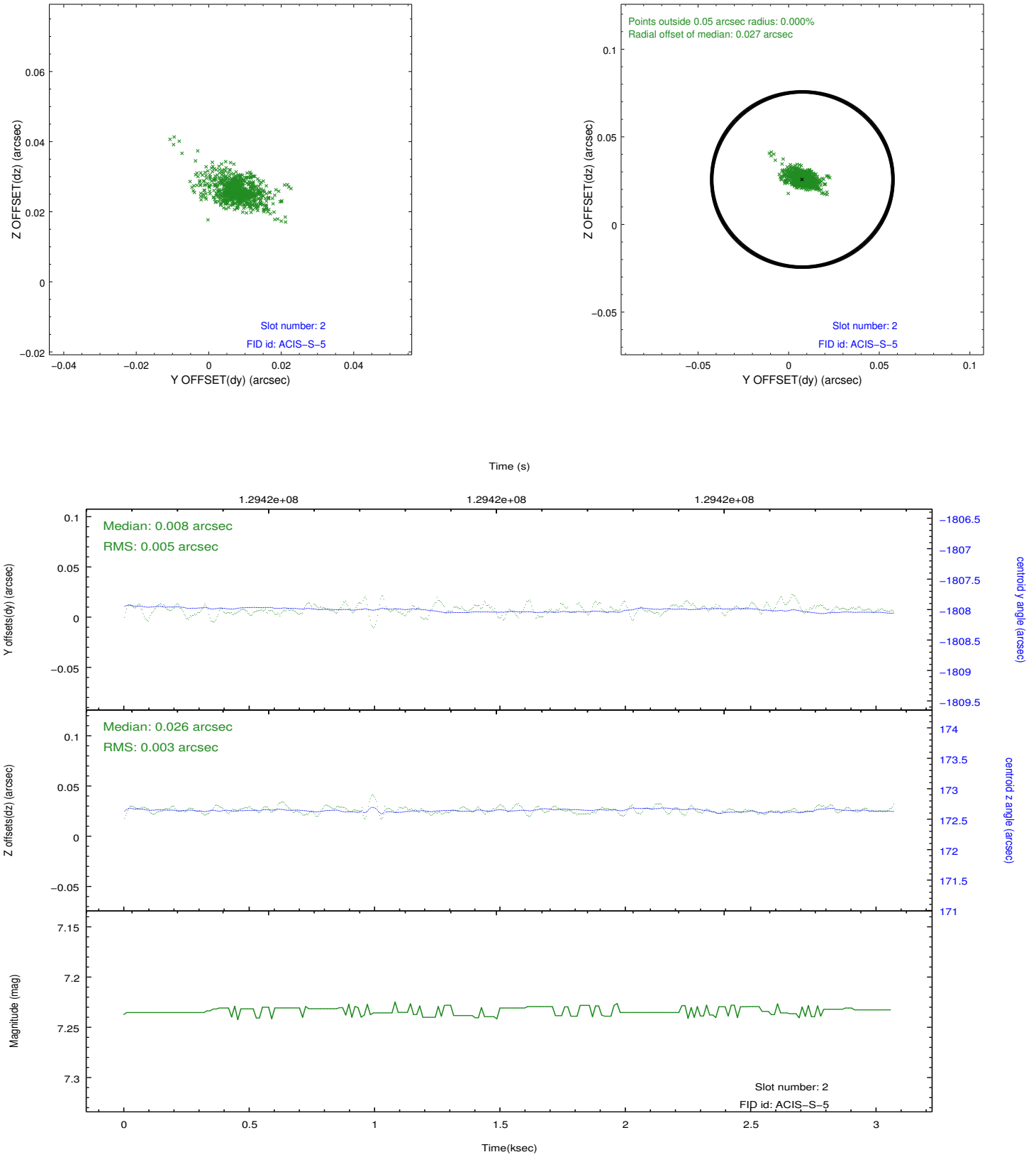
2.5.1 Slot 0



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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.986

A.2 Comments

Charge time remains at previous value of 1.986 ksec. The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time. Window preference met.