

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1863 - L2 Version 3
Chandra X-Ray Center

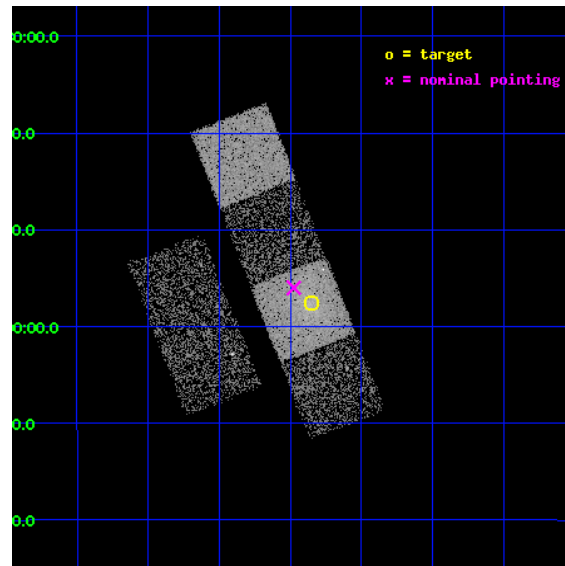
L2 Processing Date : Sep 6 2012

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1 Front

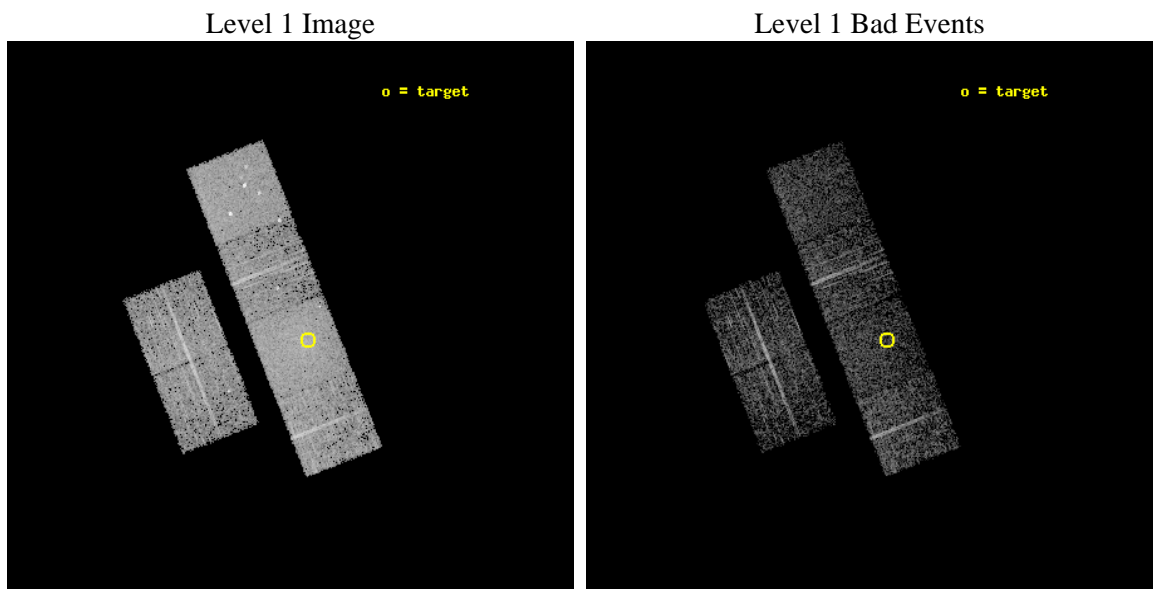
seq_num	100021	Sequence number
obs_id	1863	Observation id
title	X-RAY SPECTROSCOPY OF COMET C/1999 T1	Proposal title
observer	Dr. Vladimir Krasnopolsky	Principal investigator
object	C/1999 T1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	229.46374	Observer's specified target RA [deg]
dec_targ	-6.95845	Observer's specified target Dec [deg]
ra_nom	229.49376838686	Nominal RA [deg]
dec_nom	-6.9334967879741	Nominal Dec [deg]
roll_nom	68.49956644343	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3353.6000031084	Sum of GTIs [s]
livetime	3311.1347005735	Livetime [s]
ontime2	3353.6000031084	Sum of GTIs [s]
ontime3	3353.6000031084	Sum of GTIs [s]
ontime5	3353.6000031084	Sum of GTIs [s]
ontime6	3353.6000031084	Sum of GTIs [s]
ontime7	3353.6000031084	Sum of GTIs [s]
ontime8	3353.6000031084	Sum of GTIs [s]
l2events	36146	Number of level 2 events



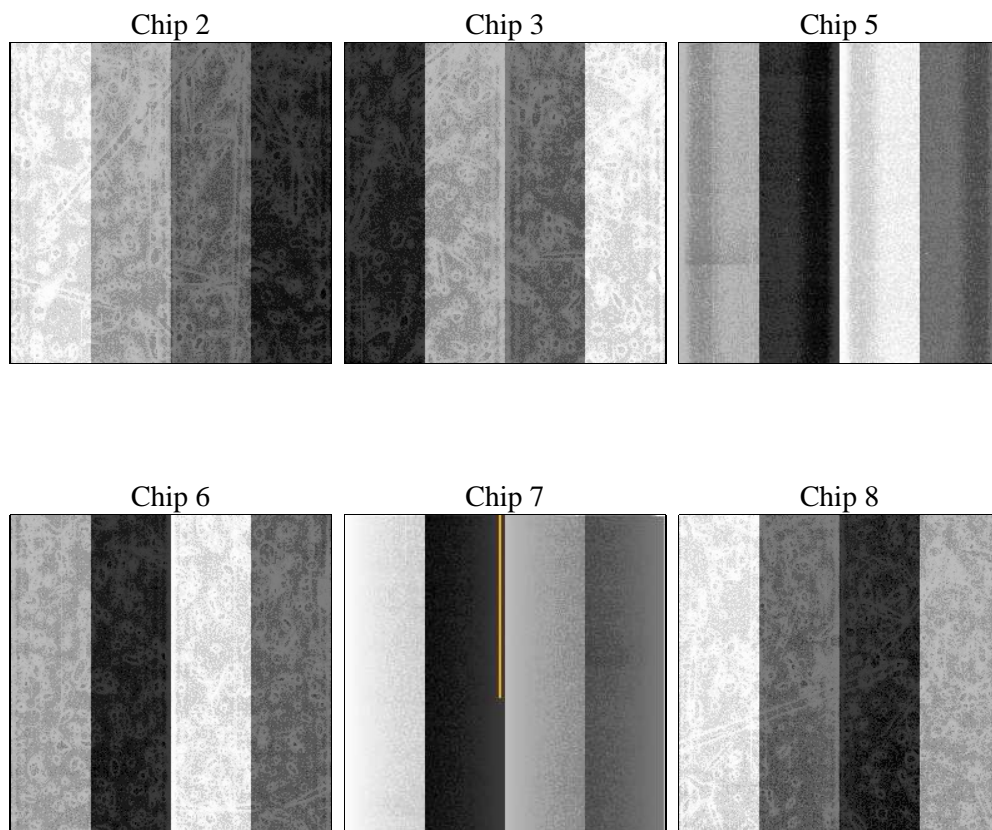
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3353.6000031084	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	3353.6000031084	Sum of GTIs [s]
date	2012-09-06T09:25:15	Date and time of file creation	ontime3	3353.6000031084	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3353.6000031084	Sum of GTIs [s]
			ontime6	3353.6000031084	Sum of GTIs [s]
			ontime7	3353.6000031084	Sum of GTIs [s]
			ontime8	3353.6000031084	Sum of GTIs [s]
			l1events	148422	Number of level 1 events

2.1.4 Events

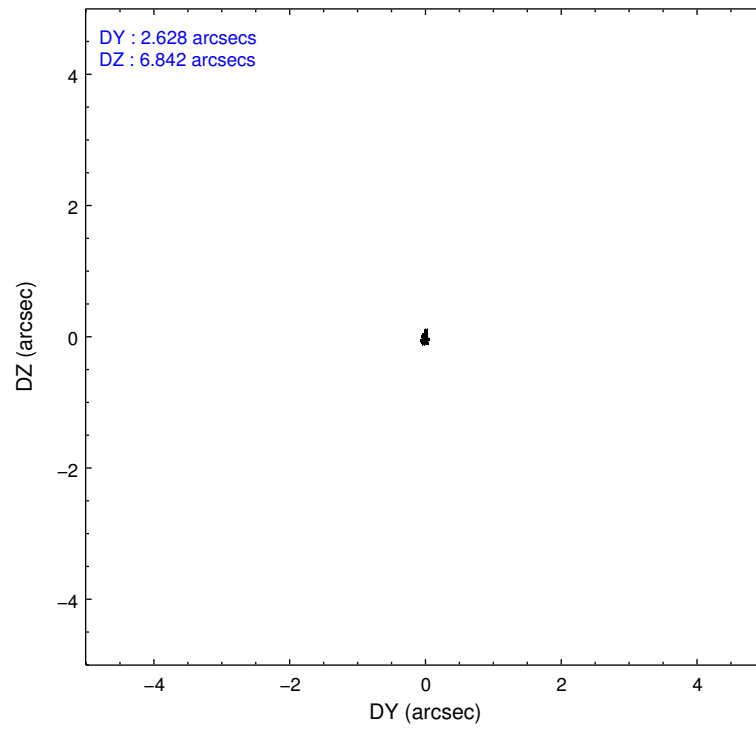
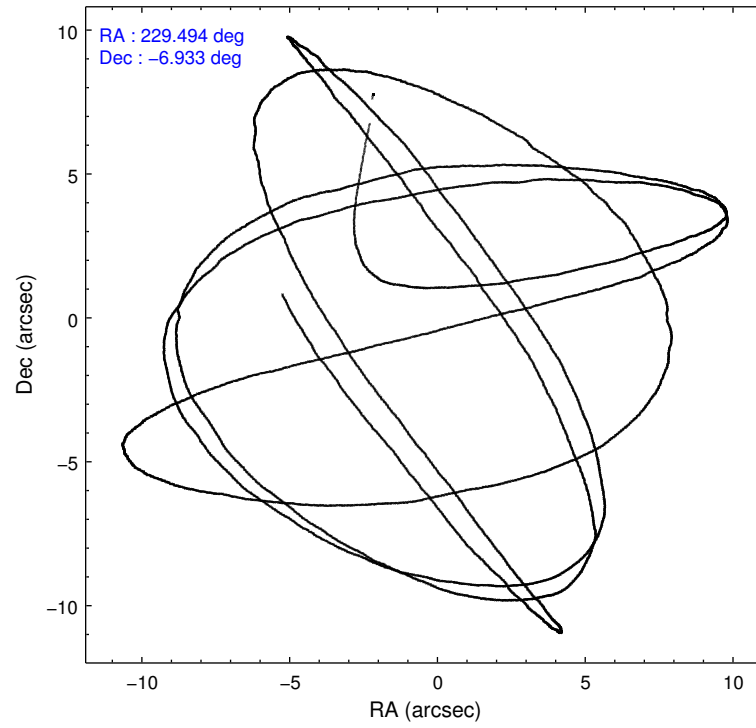
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22171	19232	29764	21126	30545	25584	grade 0 events	1083	1174	3385	1288	3652	1628
rejected events	19752	16802	14901	18466	14988	20742		4%	6%	11%	6%	11%	6%
rejected %	89%	87%	50%	87%	49%	81%	grade 1 events	9	6	72	13	20	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	493	448	3619	482	3229	1022
								2%	2%	12%	2%	10%	3%
							grade 3 events	220	209	620	227	1463	468
								0%	1%	2%	1%	4%	1%
							grade 4 events	228	215	581	214	1409	454
								1%	1%	1%	1%	4%	1%
							grade 5 events	712	765	2087	804	2512	1080
								3%	3%	7%	3%	8%	4%
							grade 6 events	397	385	6673	451	5817	1281
								1%	2%	22%	2%	19%	5%
							grade 7 events	19029	16030	12727	17647	12443	19634
								85%	83%	42%	83%	40%	76%

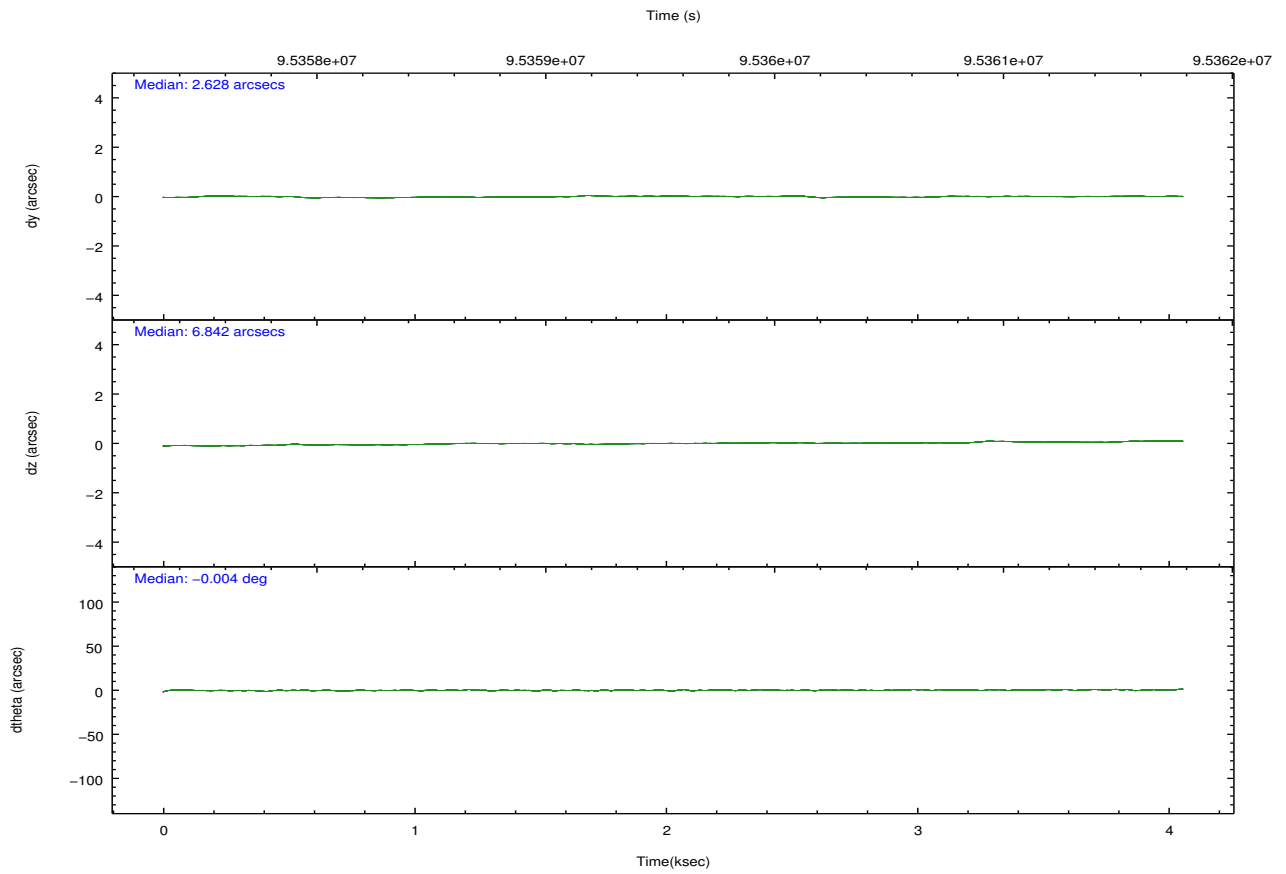
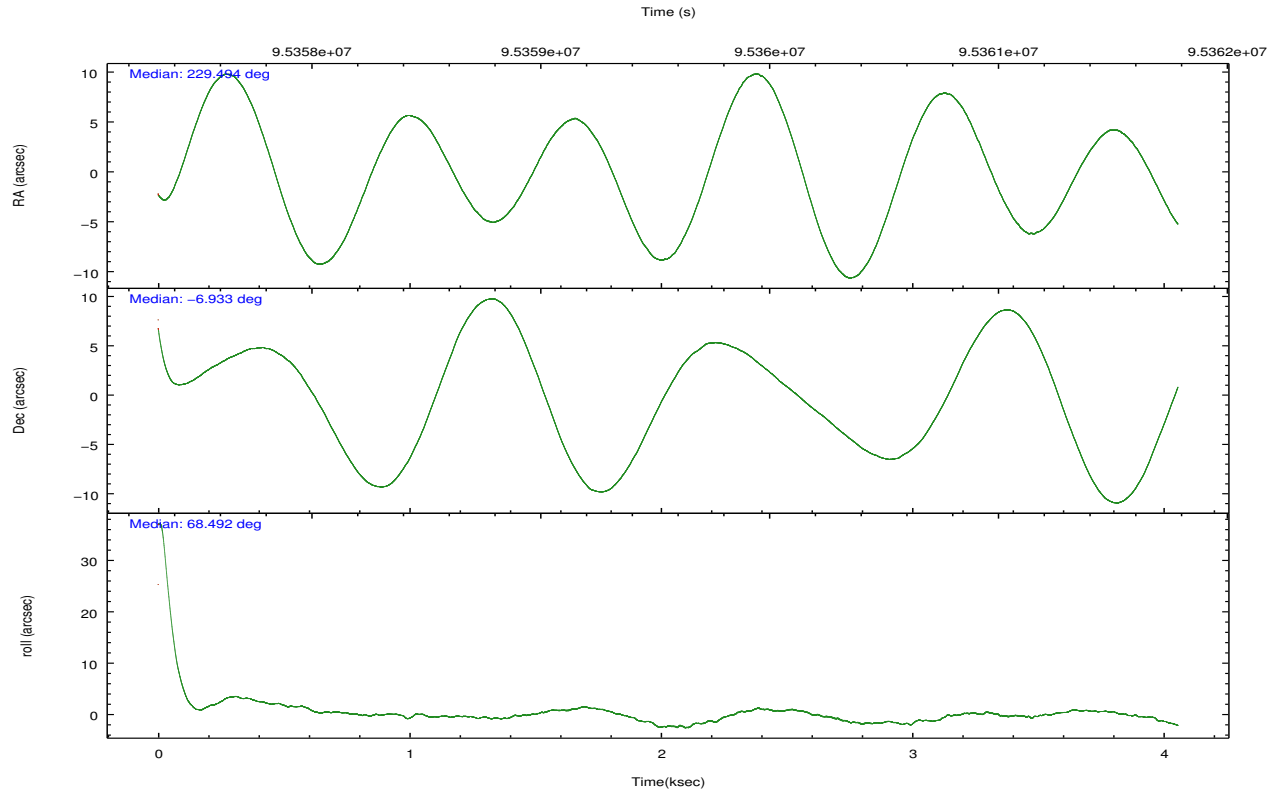
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	229.497977	229.4937683868632
[deg] Pointing Dec	-6.960472	-6.933496787974121
[deg] Pointing Roll	68.343345	68.49956644342969
[s] Window start time (MET)	95299264.184000	95299264.184000
[s] Window stop time (MET)	95904064.184000	95904064.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	95358184.184000	95356980.22667199
Observation start date	2001-01-08T16:22:00	2001-01-08T16:03:00
[s] Observation end time (MET)	95361584.184000	95362144.68937001
Observation end date	2001-01-08T17:18:40	2001-01-08T17:29:04
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



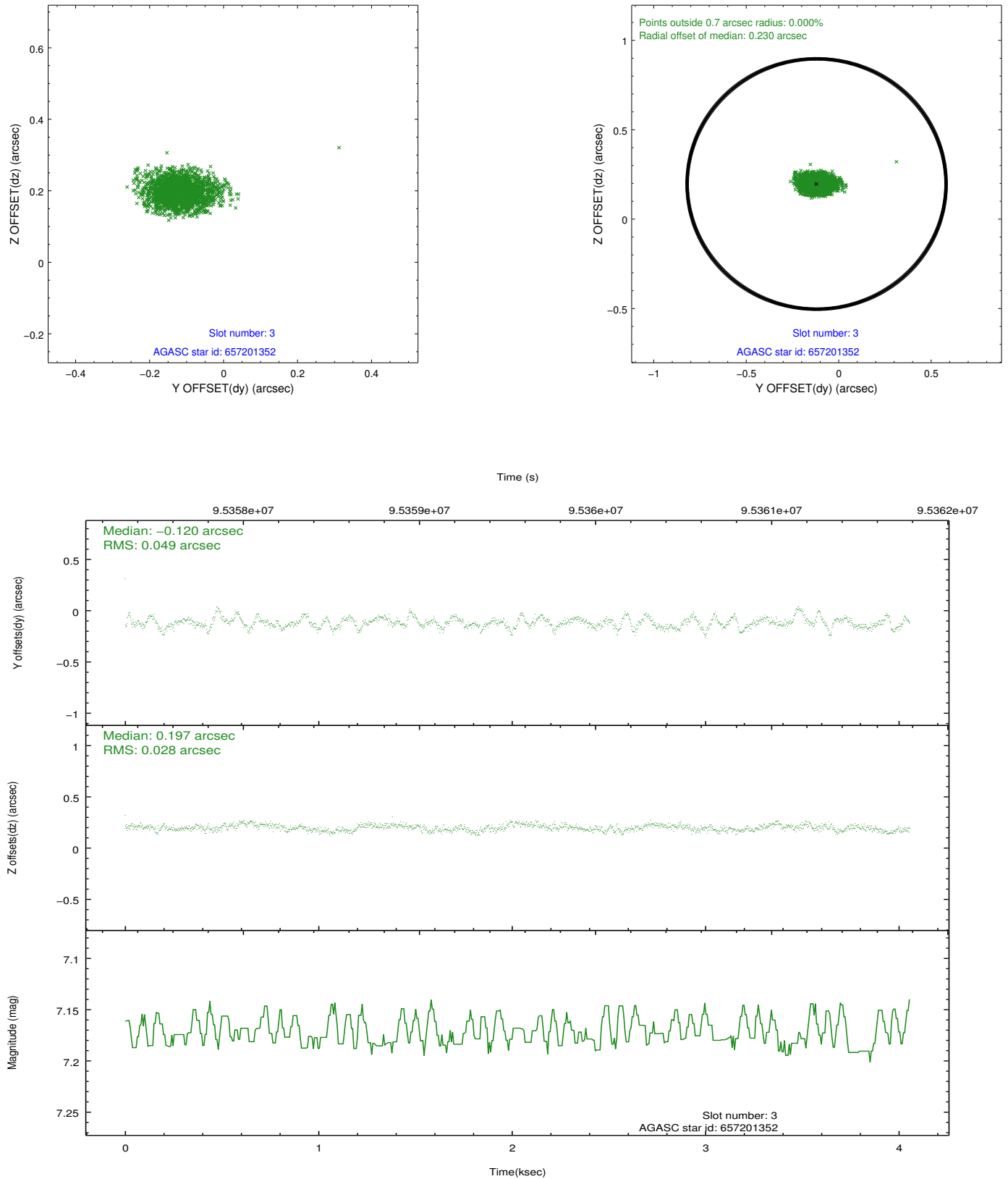


Slot Statistics

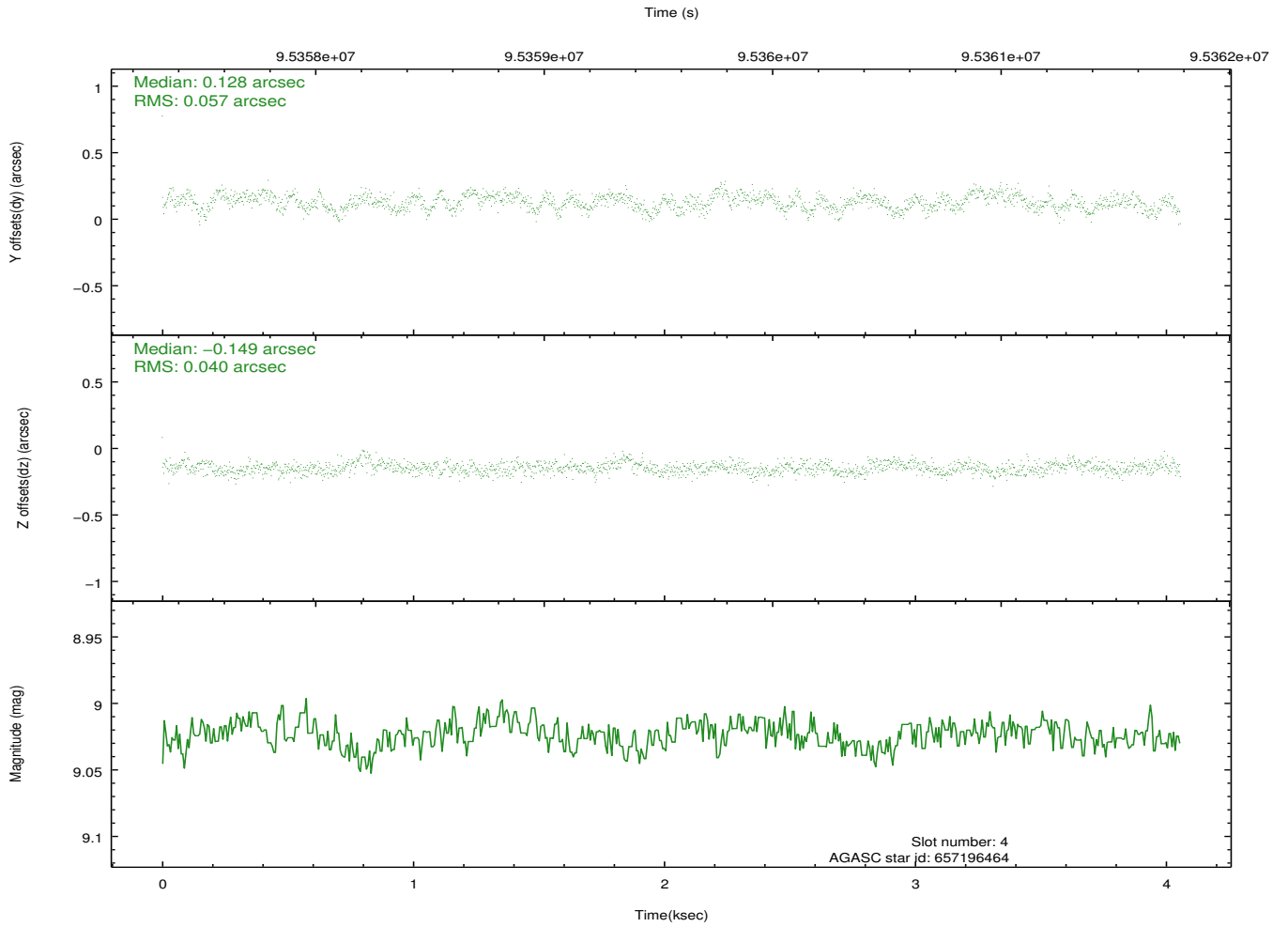
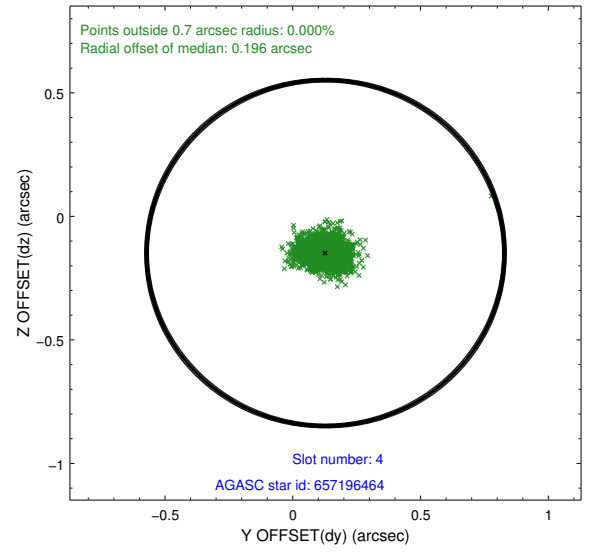
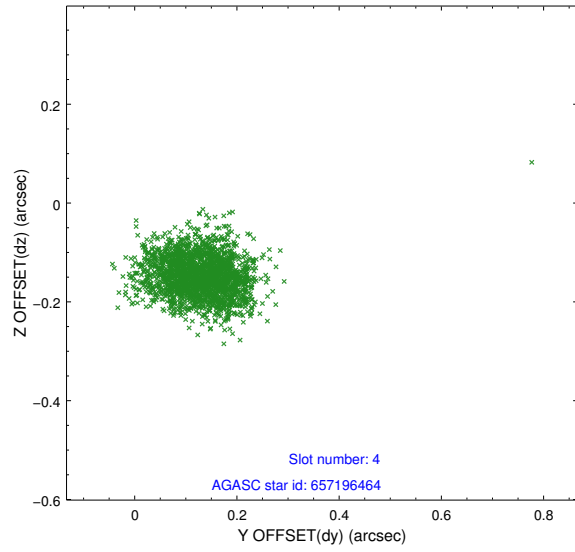
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	990	-0.023	-0.000	0.008	0.012	0.000000	0.000000	-755.28	-1727.95
1	FID	ACIS-S-4	7.20	990	-0.018	0.011	0.005	0.009	0.000000	0.000000	2157.31	178.96
2	FID	ACIS-S-5	7.24	990	0.010	-0.002	0.007	0.011	0.000000	0.000000	-1806.10	174.37
3	GUIDE	657201352	7.17	1980	-0.120	0.197	0.057	0.101	230.289132	-6.612636	2206.62	-2168.19
4	GUIDE	657196464	9.02	1980	0.128	-0.149	0.072	0.117	229.130486	-7.236027	-1405.08	851.81
5	GUIDE	657200120	8.83	1979	-0.010	-0.204	0.074	0.119	229.017087	-6.736326	114.31	1895.30
6	GUIDE	657201992	8.81	1979	-0.286	0.111	0.063	0.103	230.117477	-6.683147	1744.63	-1689.84
7	GUIDE	731516496	8.57	1977	0.285	0.045	0.065	0.101	229.386161	-7.509494	-1982.57	-359.84

2.4 Star Slots

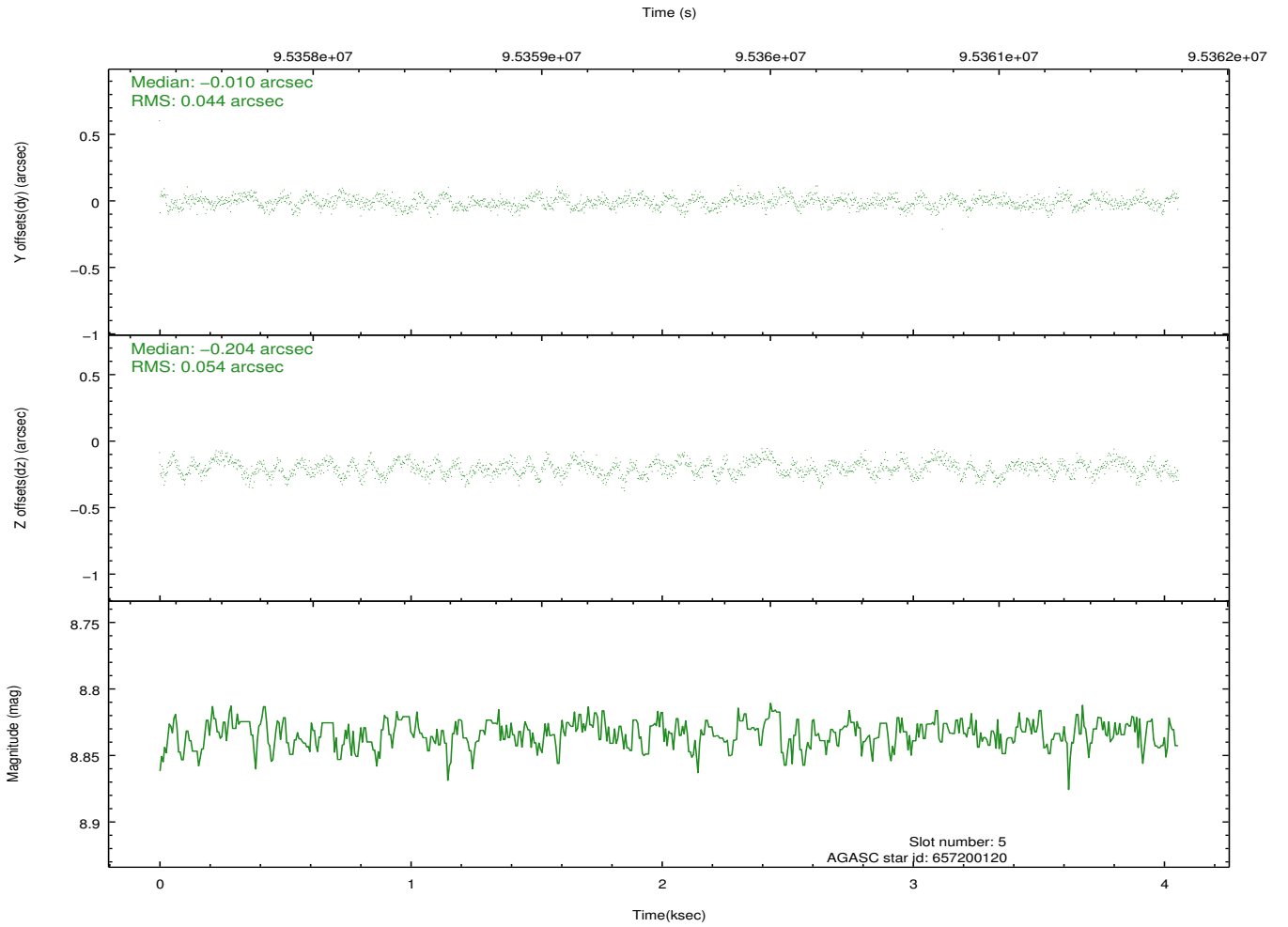
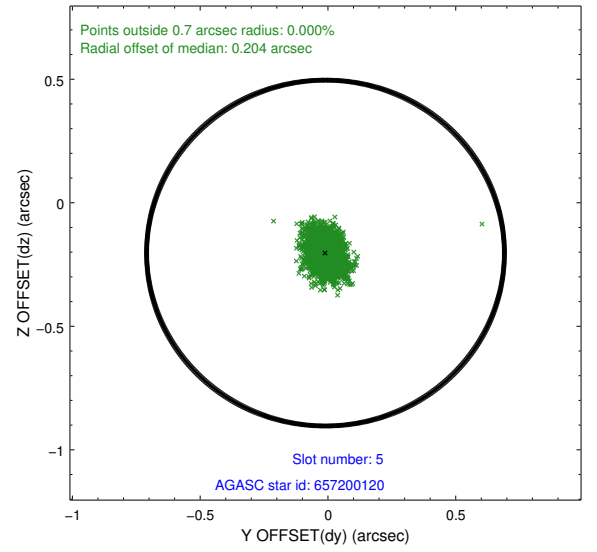
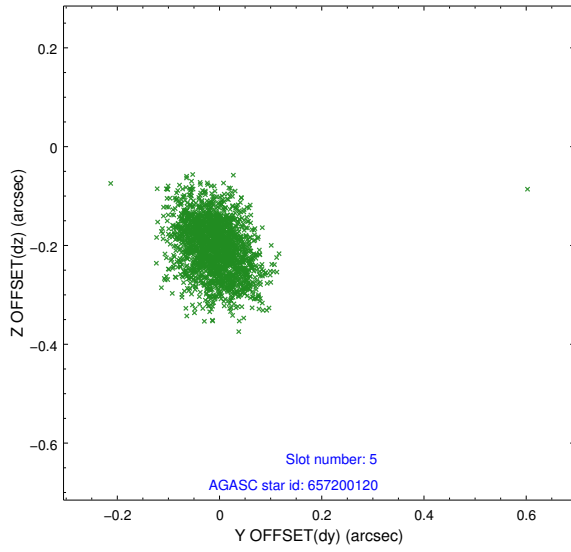
2.4.1 Slot 3



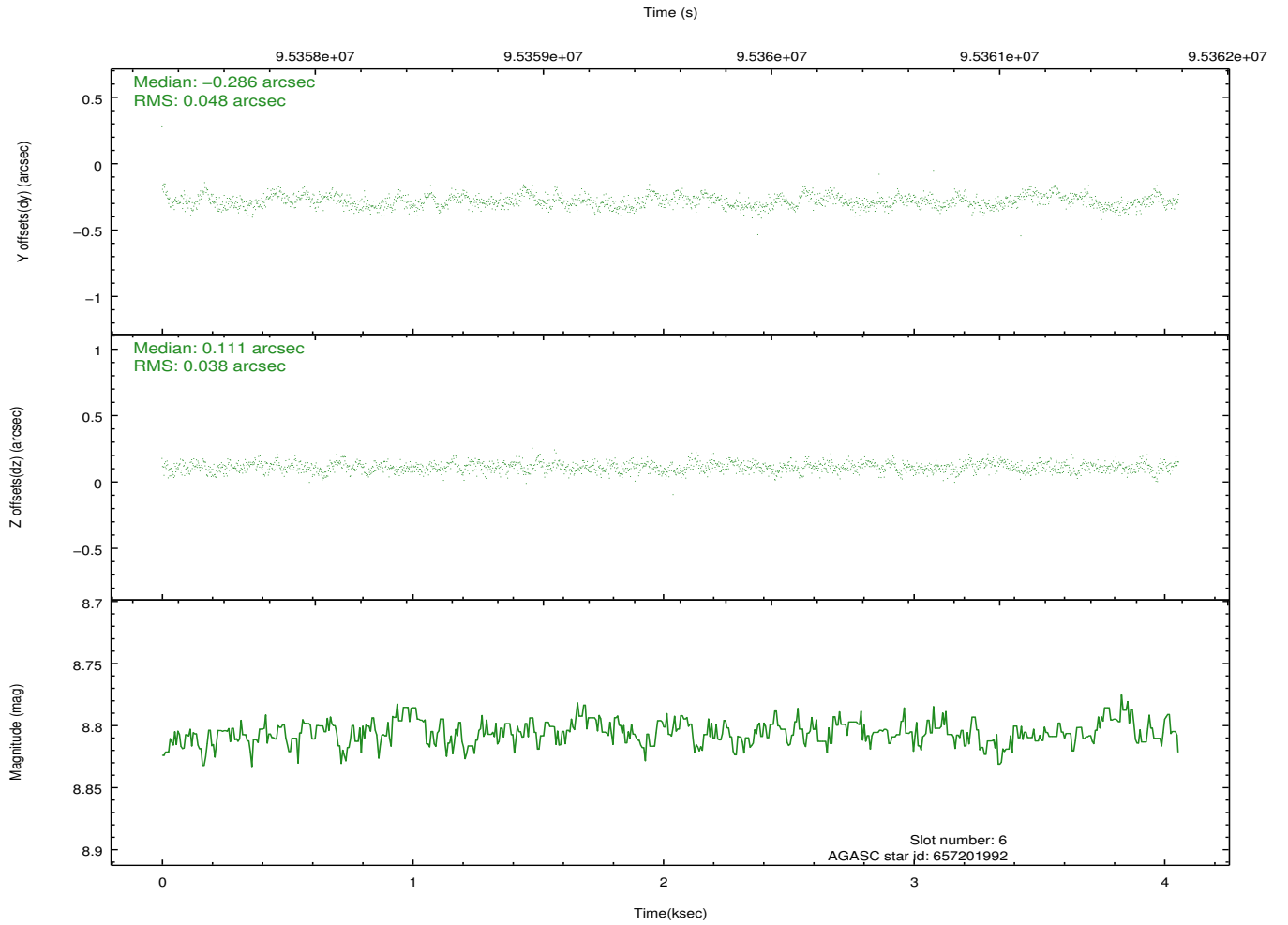
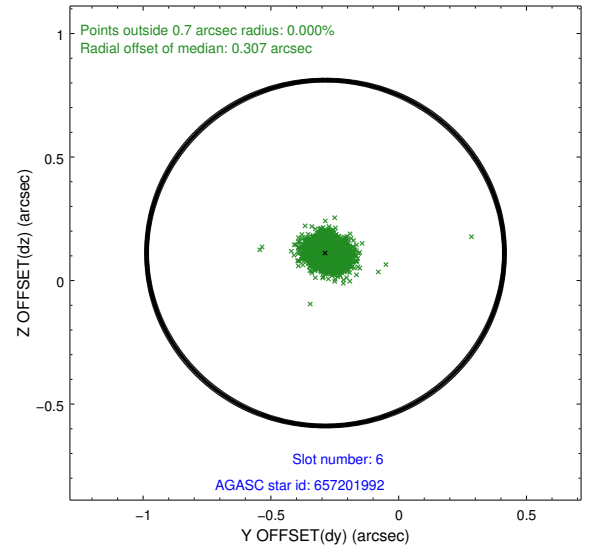
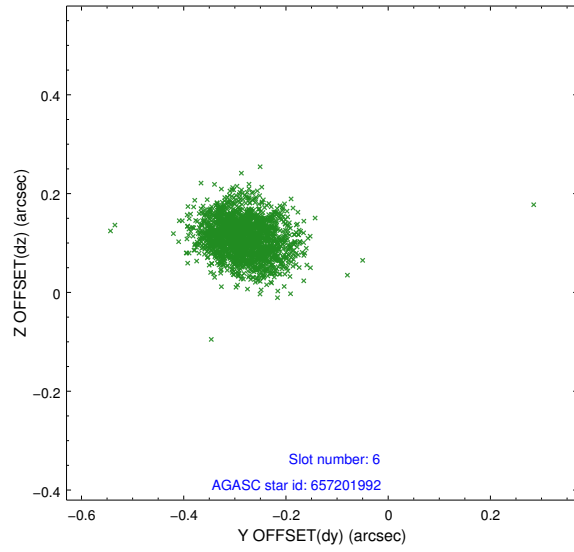
2.4.2 Slot 4



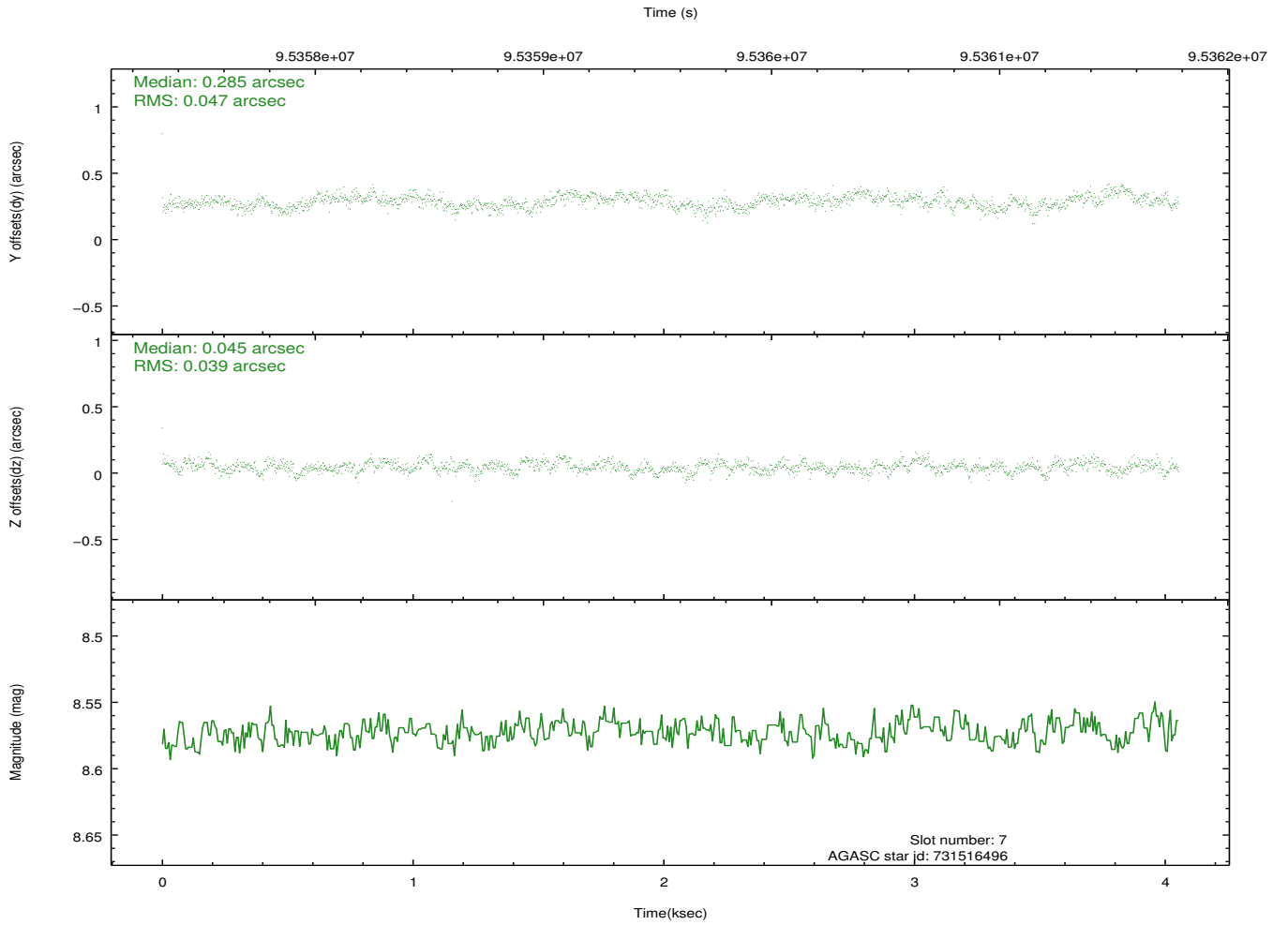
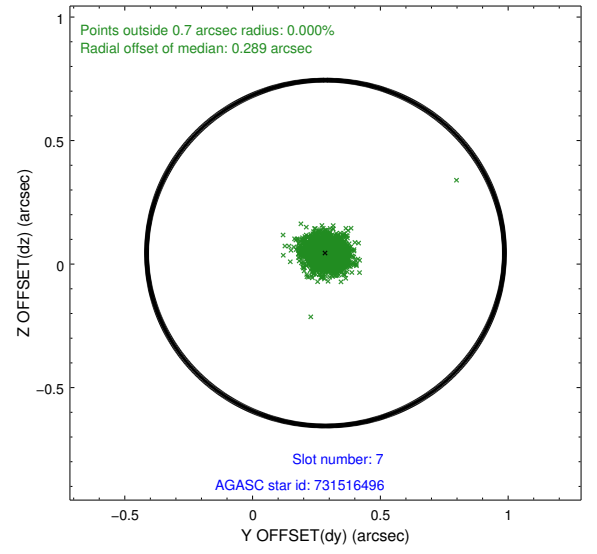
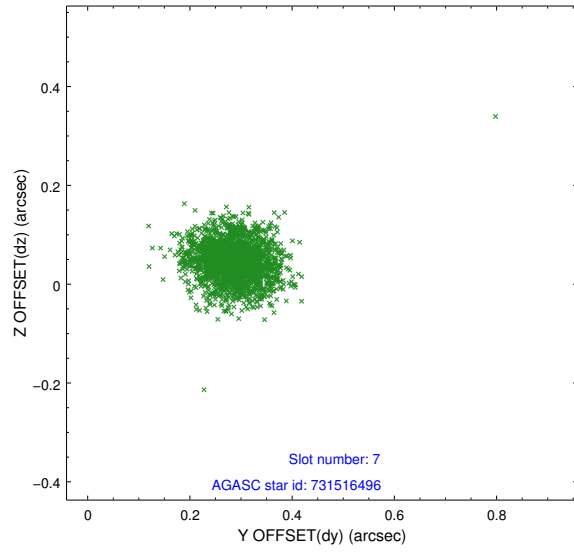
2.4.3 Slot 5



2.4.4 Slot 6

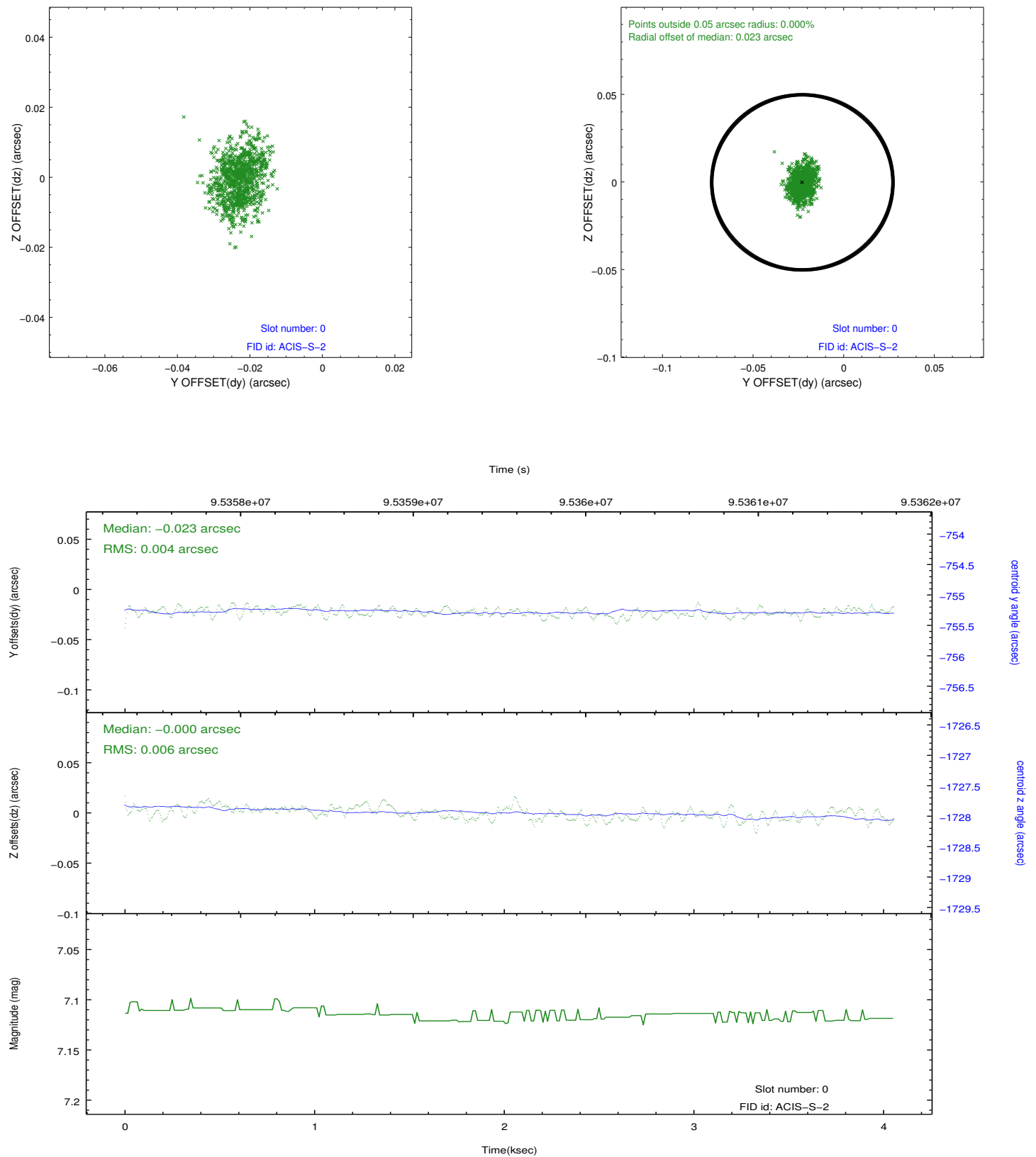


2.4.5 Slot 7

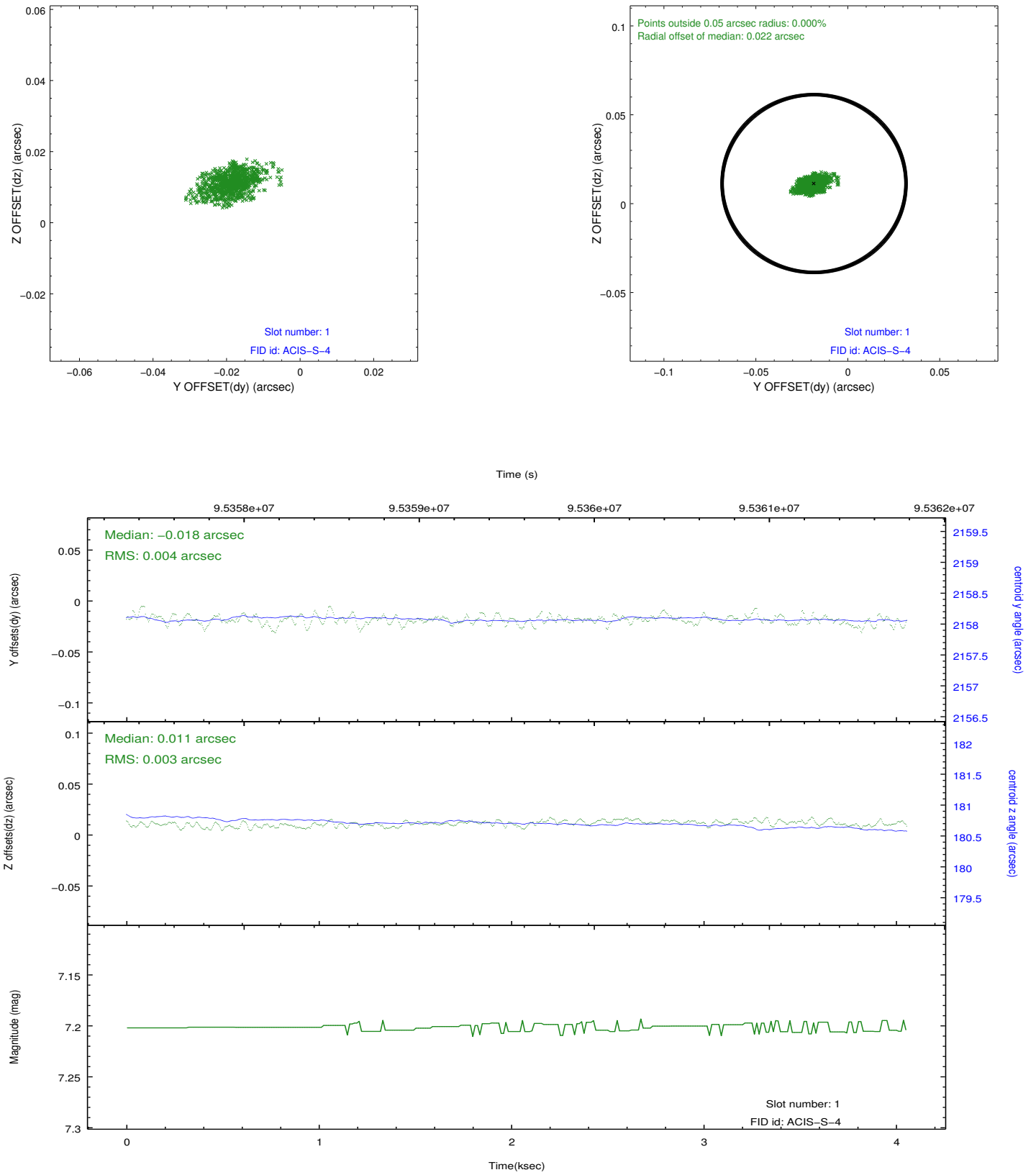


2.5 FID Slots

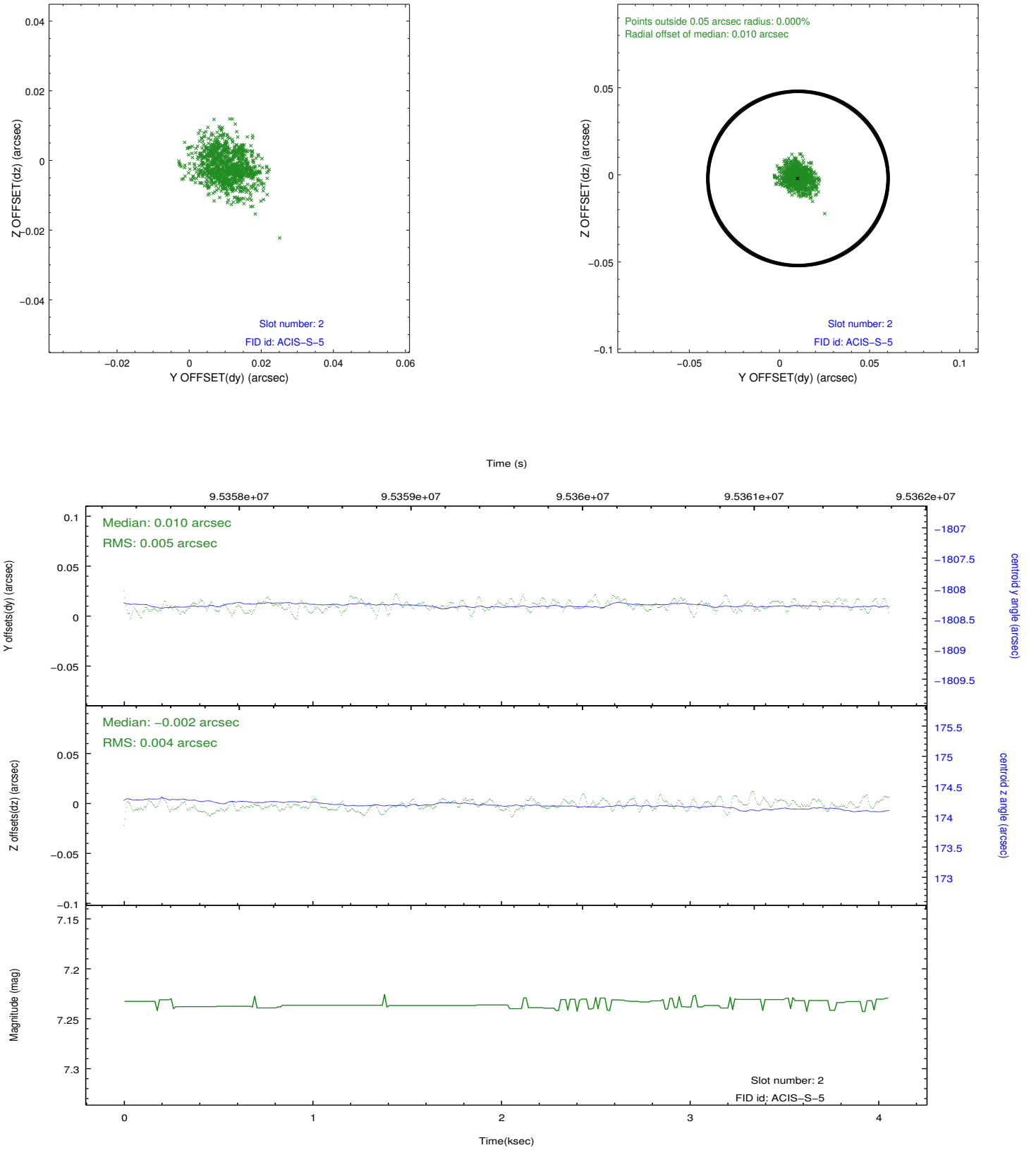
2.5.1 Slot 0



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)	2012.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.356

A.2 Comments

Window constraint met.

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This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.