

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2390 - L2 Version 3
Chandra X-Ray Center

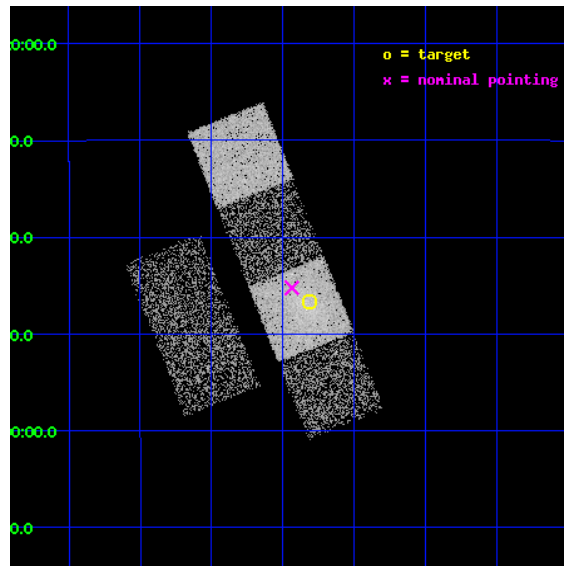
L2 Processing Date : Sep 6 2012

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1 Front

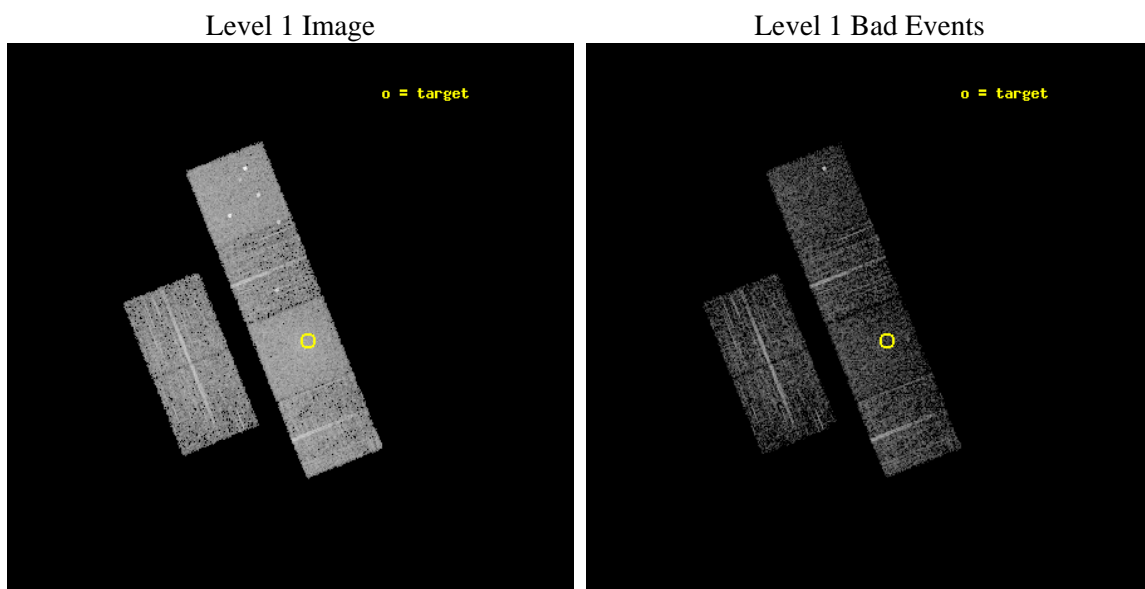
seq_num	100021	Sequence number
obs_id	2390	Observation id
title	X-RAY SPECTROSCOPY OF COMET C/1999 T1	Proposal title
observer	Dr. Vladimir Krasnopolsky	Principal investigator
object	C/1999 T1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.45404	Observer's specified target RA [deg]
dec_targ	-5.7787	Observer's specified target Dec [deg]
ra_nom	230.48403133283	Nominal RA [deg]
dec_nom	-5.7538538158269	Nominal Dec [deg]
roll_nom	68.188612111929	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3635.2000033706	Sum of GTIs [s]
livetime	3589.1689120733	Livetime [s]
ontime2	3635.2000033706	Sum of GTIs [s]
ontime3	3635.2000033706	Sum of GTIs [s]
ontime5	3635.2000033706	Sum of GTIs [s]
ontime6	3635.2000033706	Sum of GTIs [s]
ontime7	3635.2000033706	Sum of GTIs [s]
ontime8	3635.2000033706	Sum of GTIs [s]
l2events	39361	Number of level 2 events



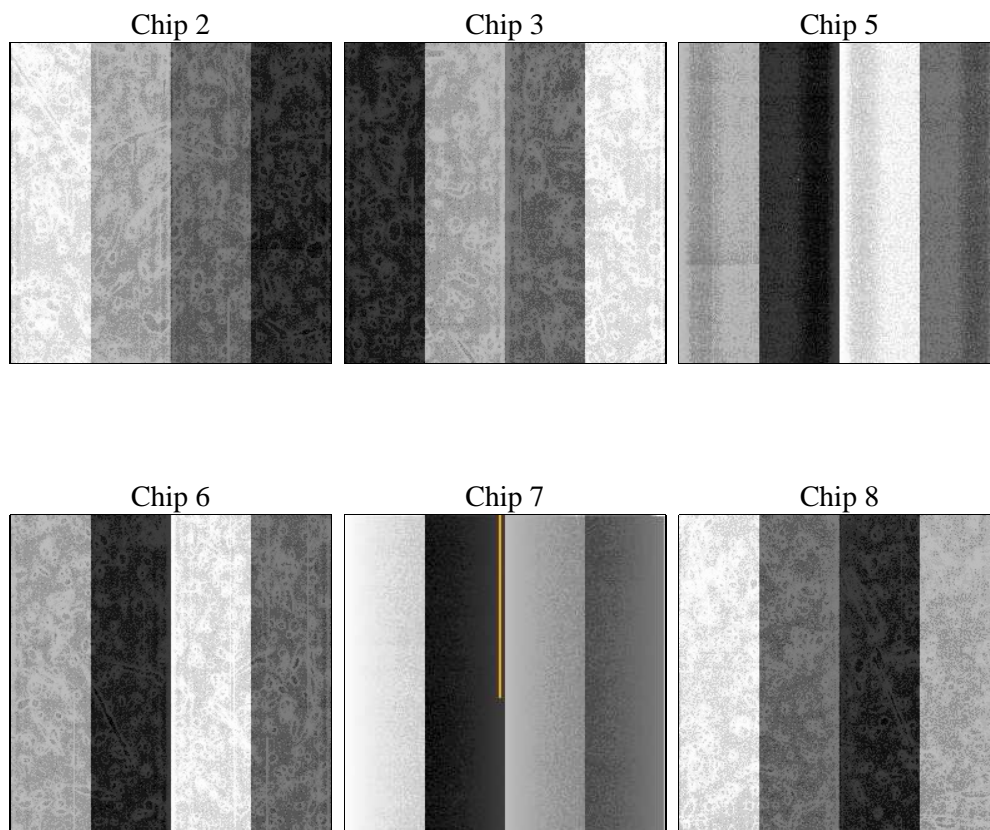
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3521.744000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3635.2000033706	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	3635.2000033706	Sum of GTIs [s]
date	2012-09-06T09:26:47	Date and time of file creation	ontime3	3635.2000033706	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3635.2000033706	Sum of GTIs [s]
			ontime6	3635.2000033706	Sum of GTIs [s]
			ontime7	3635.2000033706	Sum of GTIs [s]
			ontime8	3635.2000033706	Sum of GTIs [s]
			l1events	160168	Number of level 1 events

2.1.4 Events

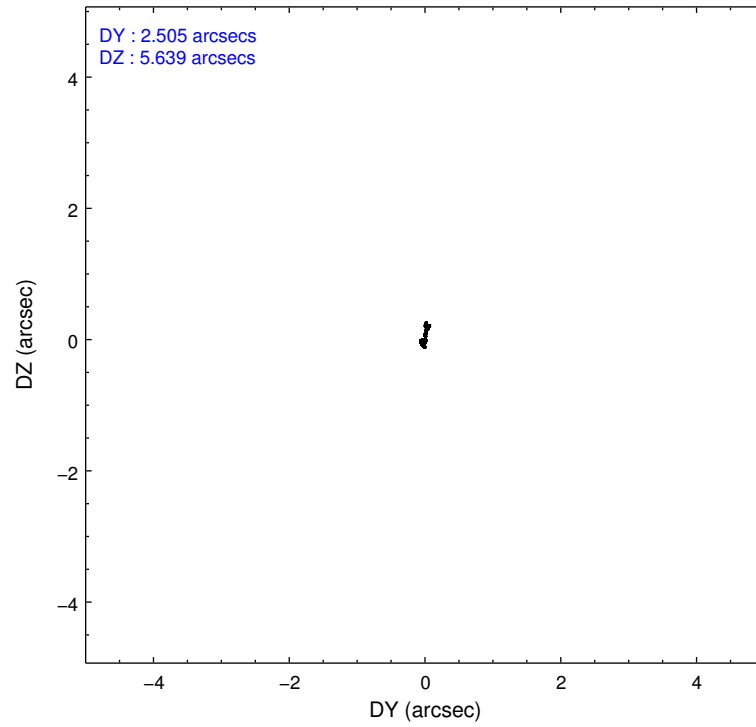
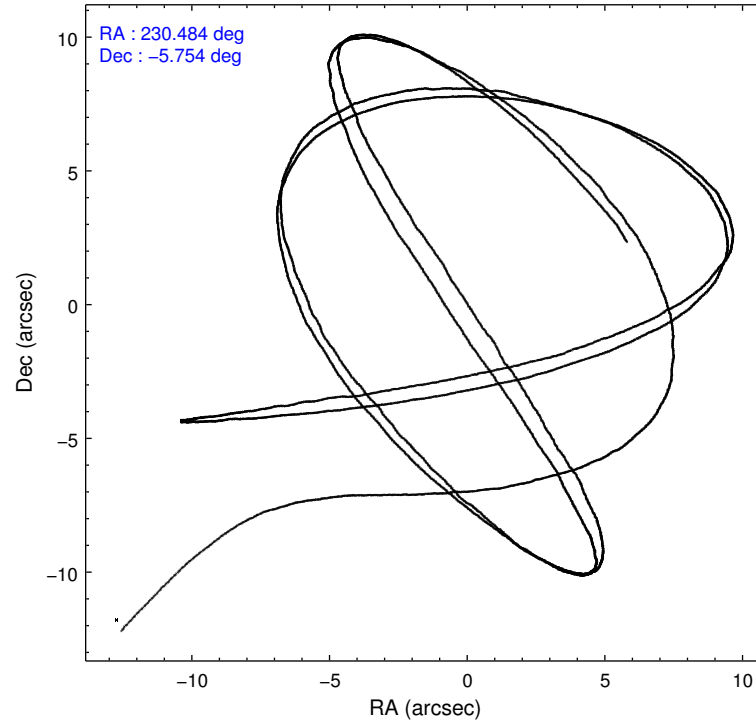
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22737	20795	33726	22869	32941	27100	grade 0 events	1095	1144	3410	1580	3655	1922
rejected events	20275	18251	17011	19793	16373	21591		4%	5%	10%	6%	11%	7%
rejected %	89%	87%	50%	86%	49%	79%	grade 1 events	14	9	418	8	26	12
								0%	0%	1%	0%	0%	0%
							grade 2 events	490	497	4706	522	3404	1075
								2%	2%	13%	2%	10%	3%
							grade 3 events	219	262	683	227	1551	572
								0%	1%	2%	0%	4%	2%
							grade 4 events	233	239	614	265	1459	549
								1%	1%	1%	1%	4%	2%
							grade 5 events	717	807	2353	893	2697	1183
								3%	3%	6%	3%	8%	4%
							grade 6 events	427	409	7311	485	6512	1393
								1%	1%	21%	2%	19%	5%
							grade 7 events	19542	17428	14231	18889	13637	20394
								85%	83%	42%	82%	41%	75%

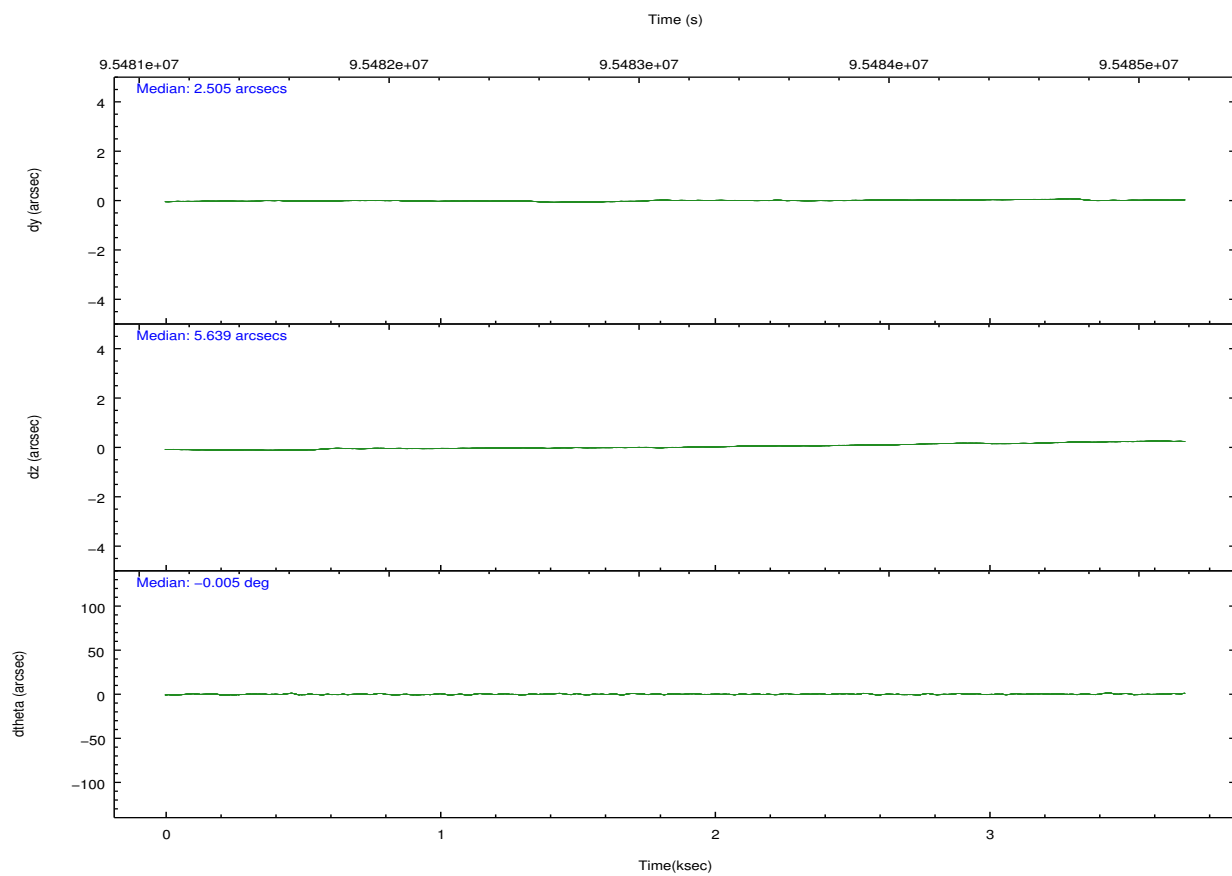
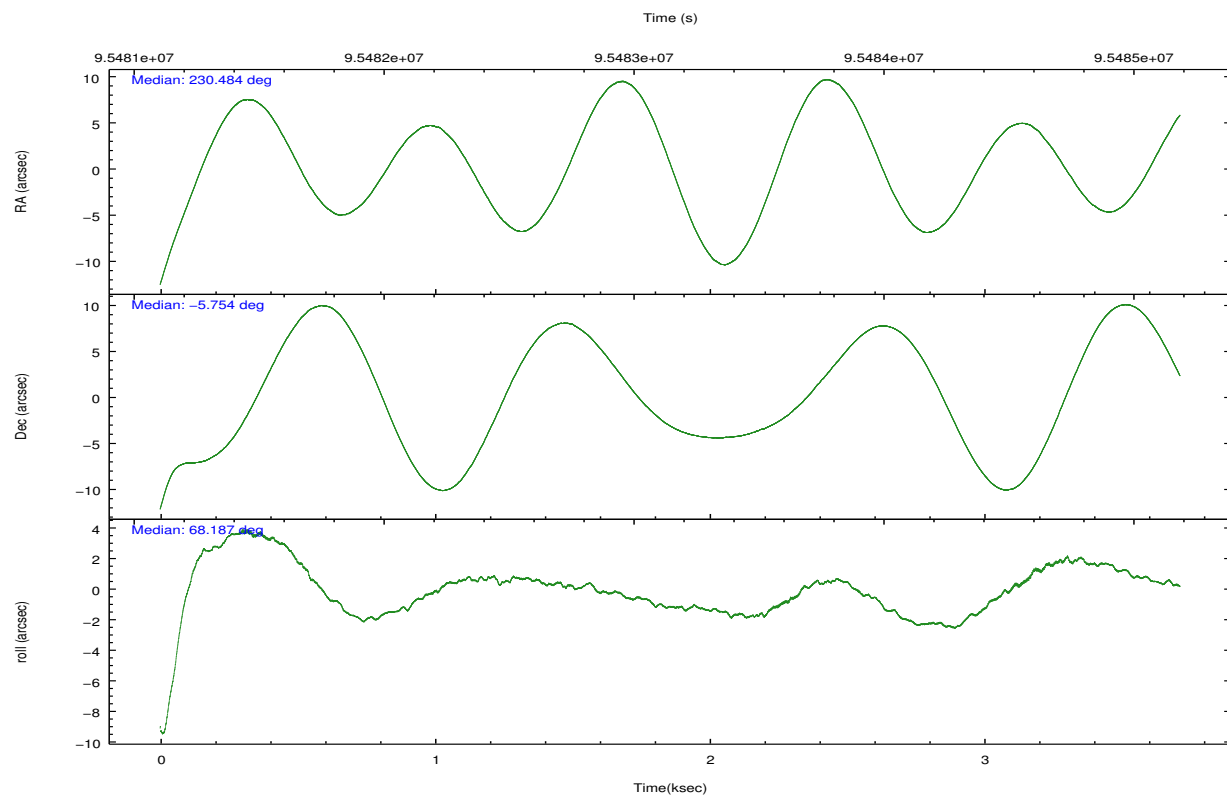
2.2 Compared Parameters

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	230.488189	230.4840313328312
[deg] Pointing Dec	-5.780901	-5.753853815826868
[deg] Pointing Roll	68.032438	68.18861211192946
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	95481476.184000	95480435.33140799
Observation start date	2001-01-10T02:36:52	2001-01-10T02:20:35
[s] Observation end time (MET)	95484998.184000	95485312.28159501
Observation end date	2001-01-10T03:35:34	2001-01-10T03:41:52
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



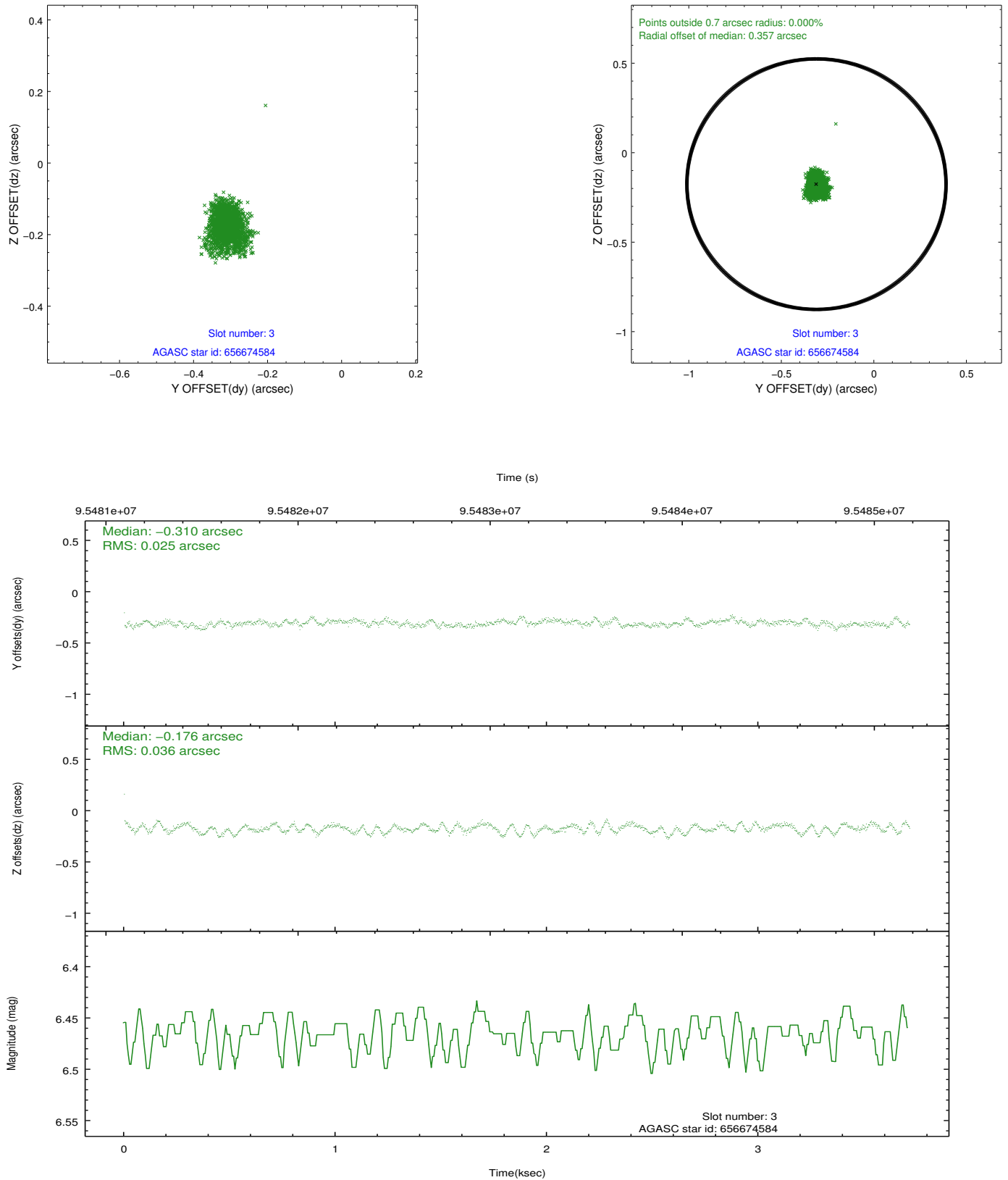


Slot Statistics

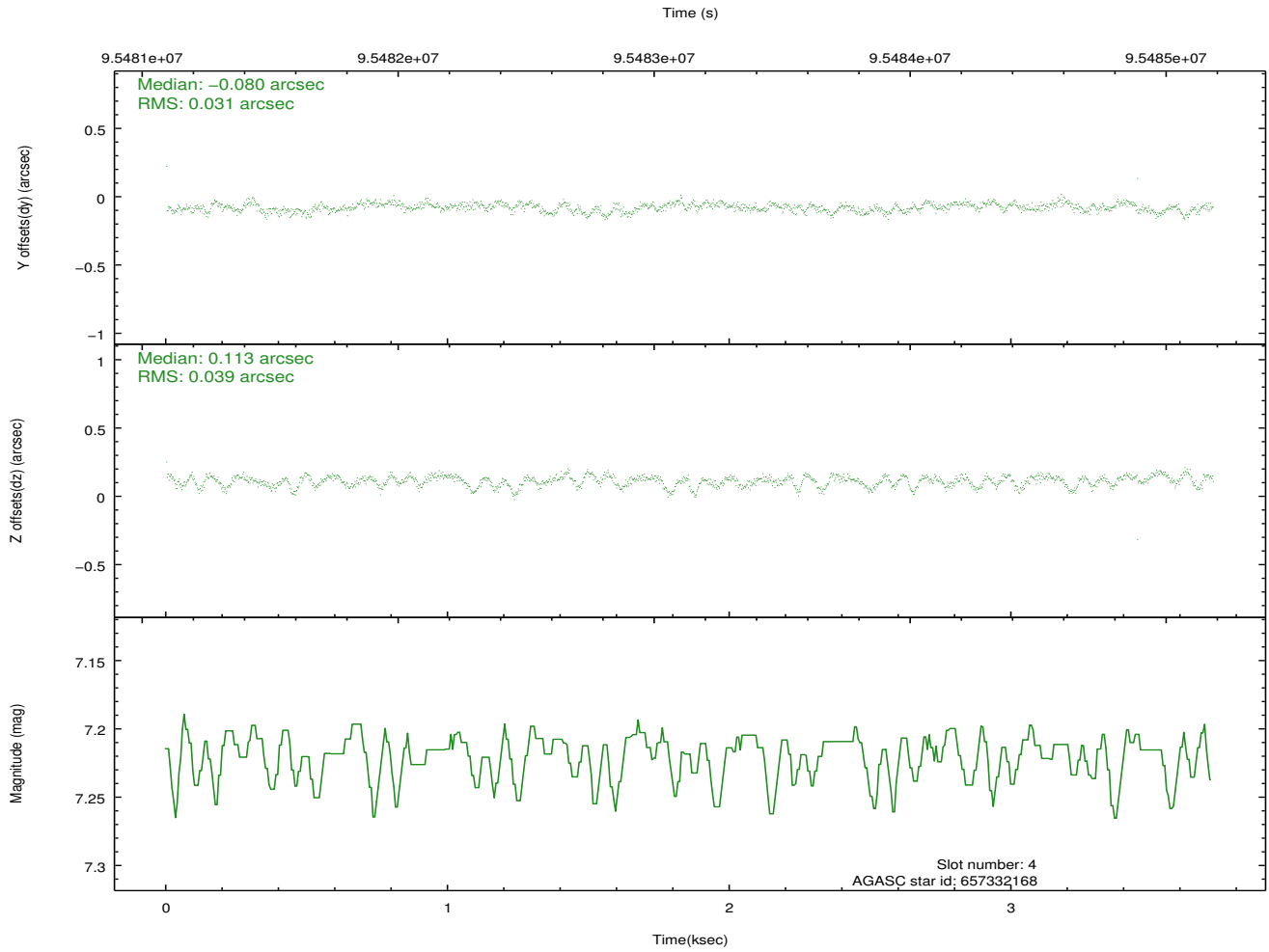
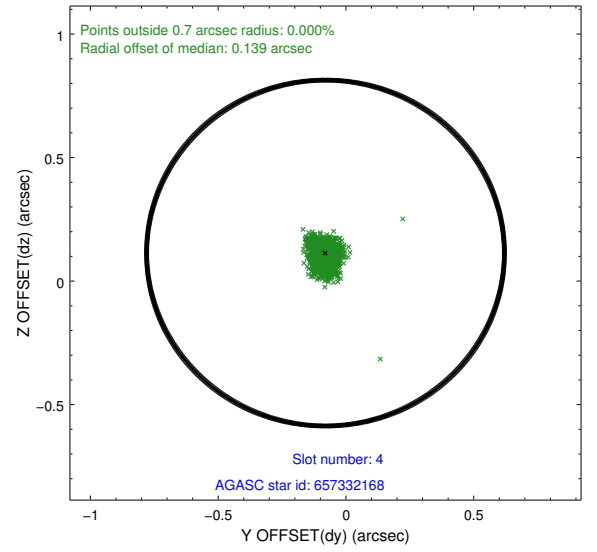
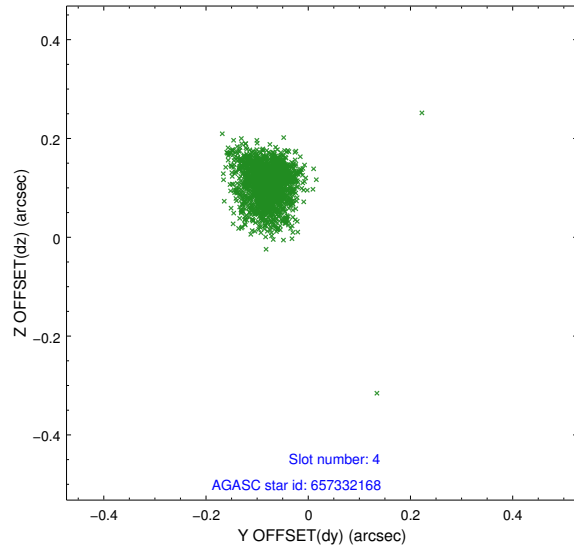
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	906	-0.042	-0.003	0.007	0.011	0.000000	0.000000	-755.14	-1726.83
1	FID	ACIS-S-4	7.21	906	-0.001	0.021	0.005	0.011	0.000000	0.000000	2157.38	179.99
2	FID	ACIS-S-5	7.23	906	0.011	-0.009	0.007	0.011	0.000000	0.000000	-1805.78	175.49
3	GUIDE	656674584	6.47	1813	-0.310	-0.176	0.046	0.077	230.152092	-5.119757	1754.85	2008.11
4	GUIDE	657332168	7.22	1813	-0.080	0.113	0.050	0.087	230.858570	-6.610488	-2274.77	-2344.35
5	GUIDE	657328480	9.01	1812	0.088	0.126	0.058	0.094	230.806614	-5.708036	667.50	-960.64
6	GUIDE	656675472	9.50	1813	-0.072	0.015	0.086	0.142	230.385691	-5.242868	1658.06	1065.22
7	GUIDE	657199248	9.46	1812	0.371	-0.070	0.089	0.144	230.044264	-6.264985	-2210.80	821.94

2.4 Star Slots

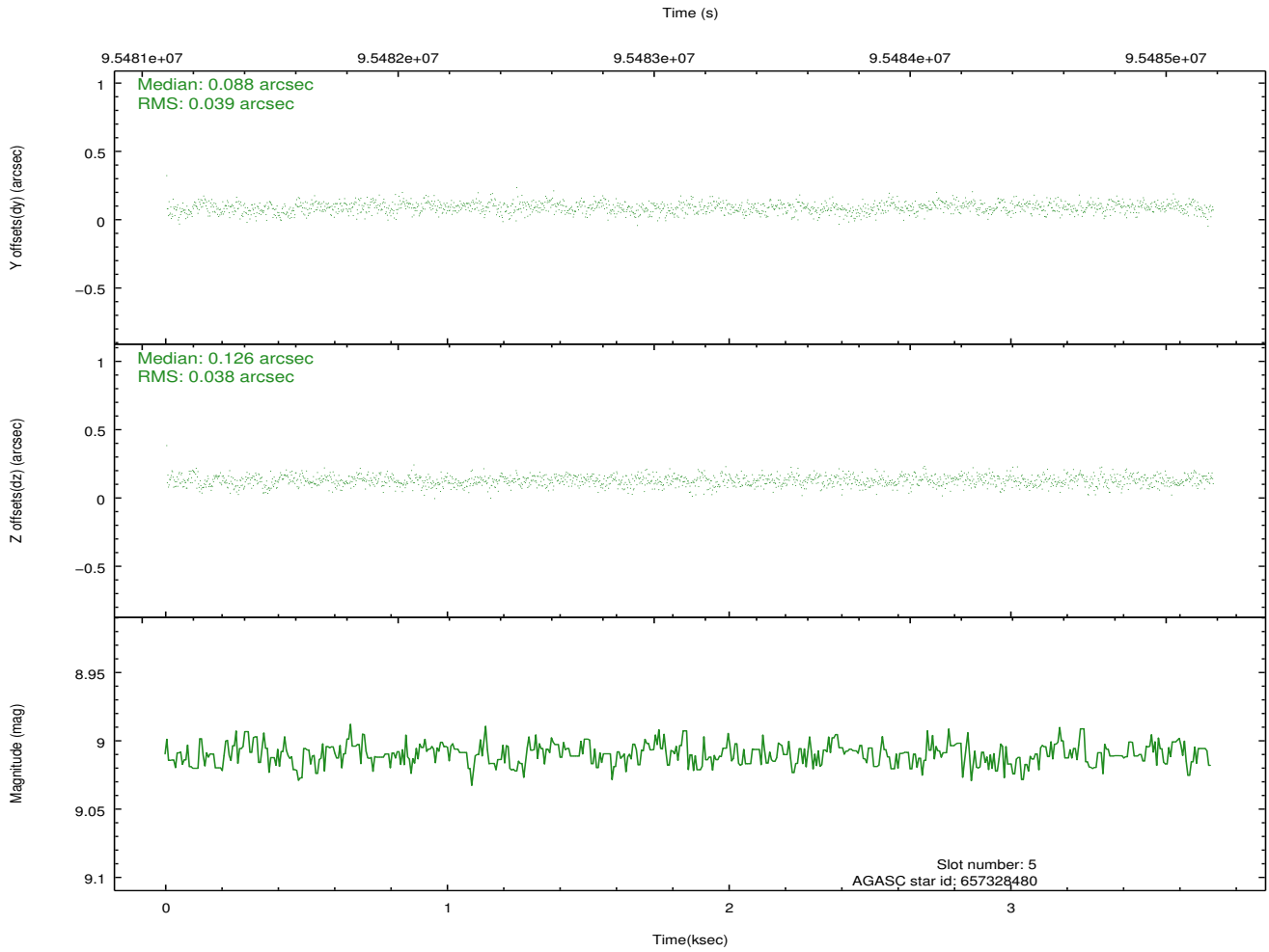
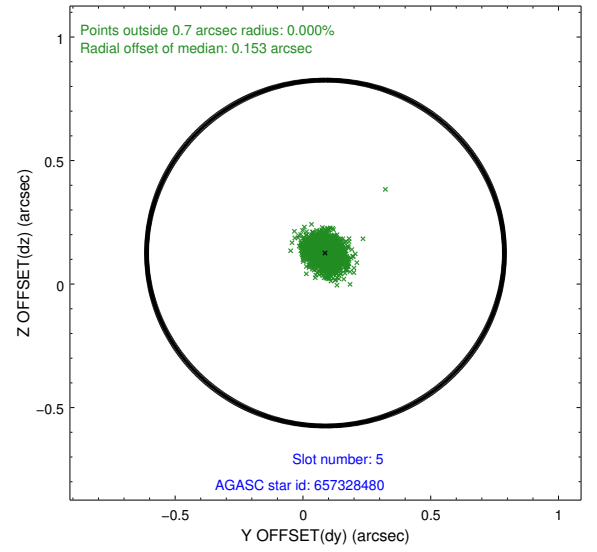
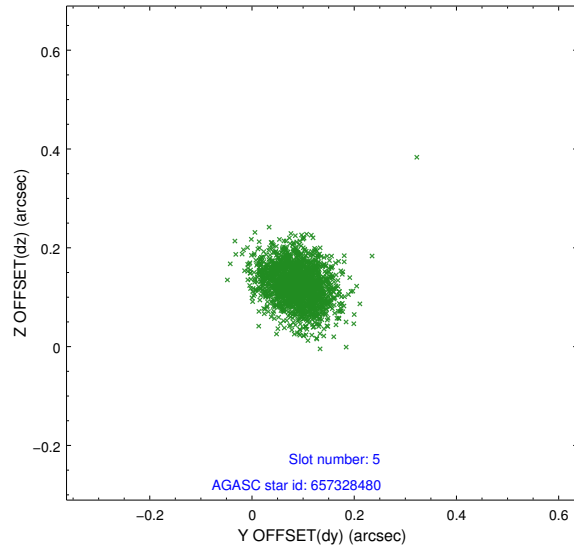
2.4.1 Slot 3



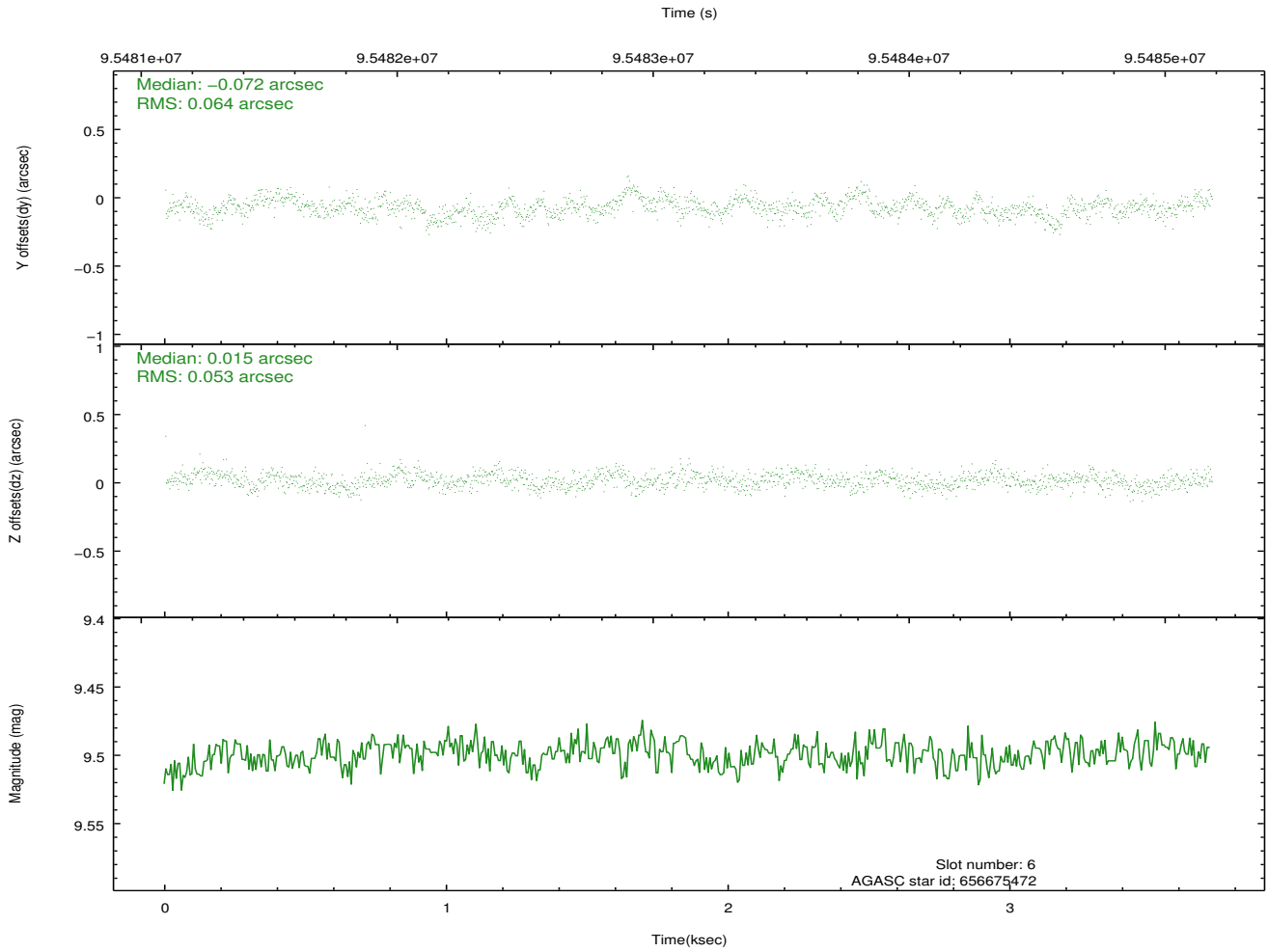
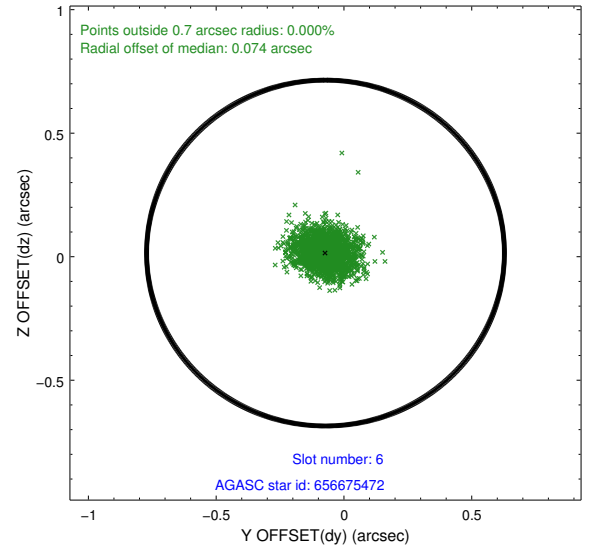
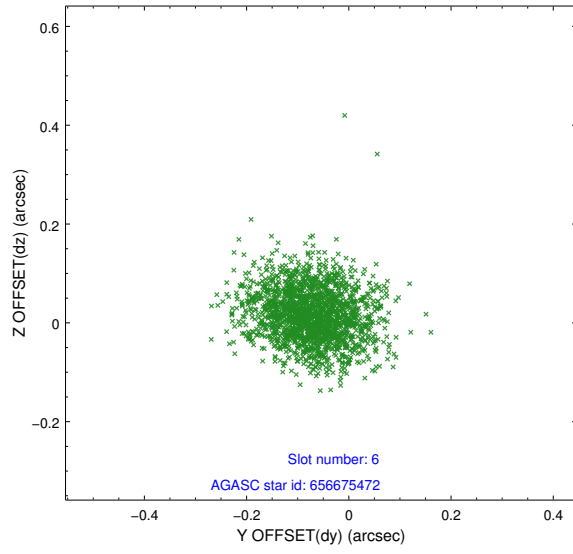
2.4.2 Slot 4



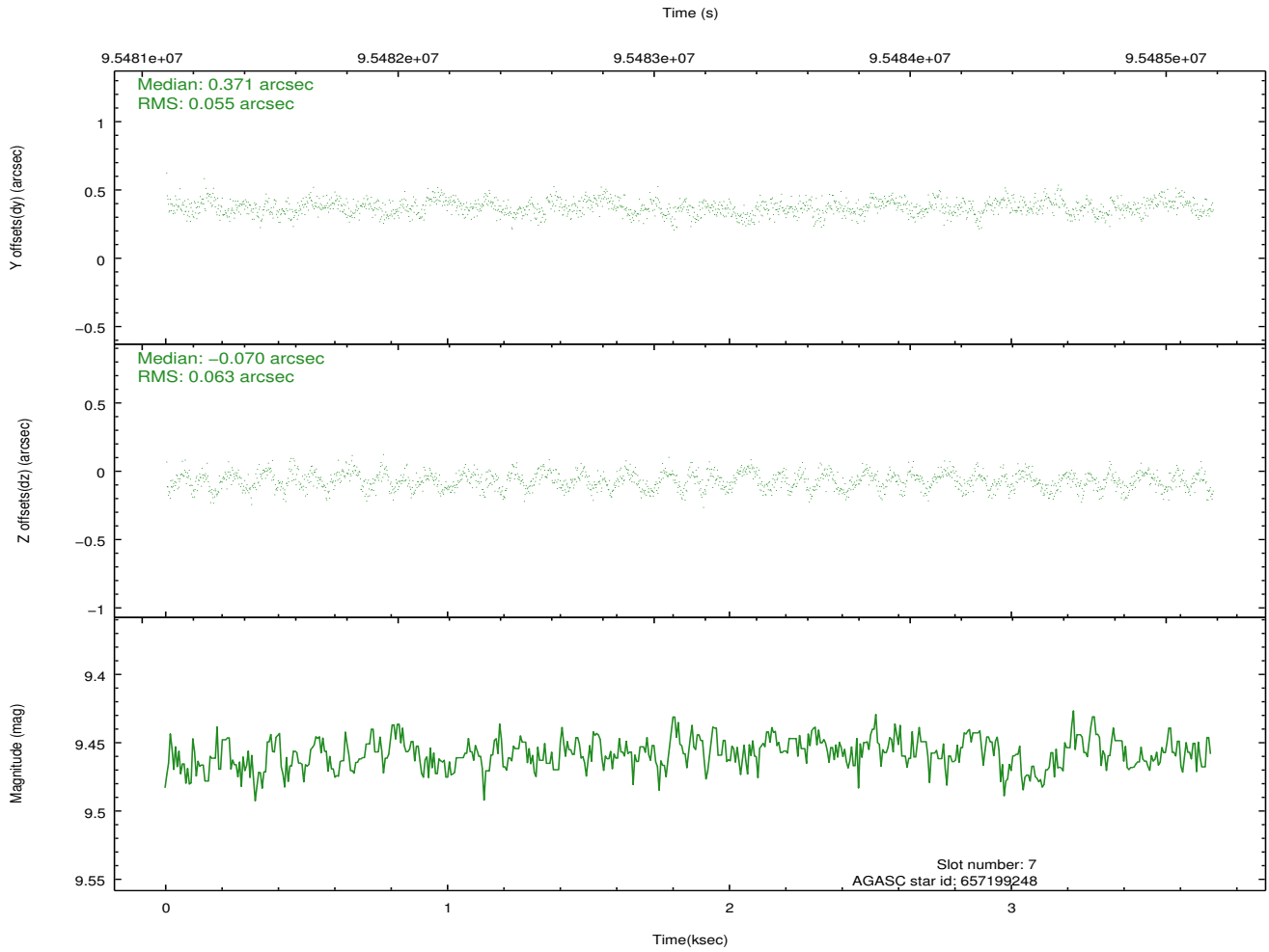
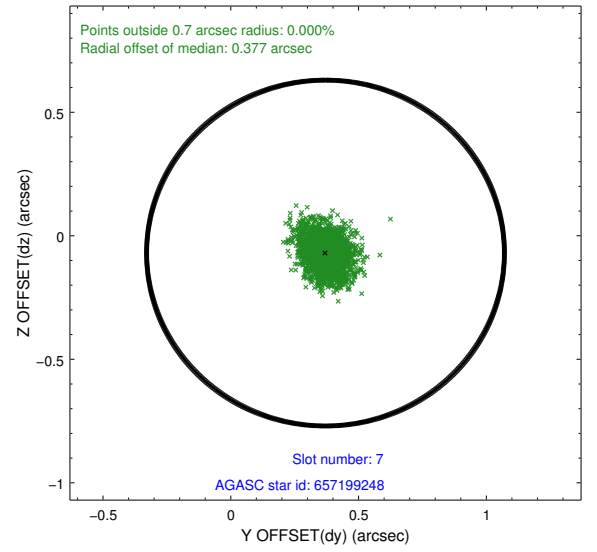
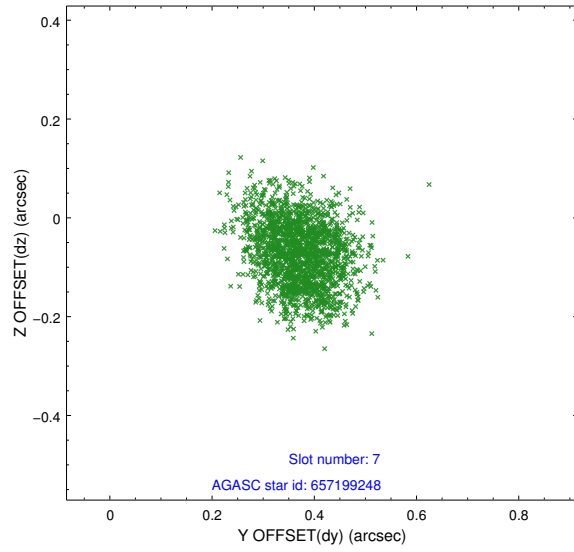
2.4.3 Slot 5



2.4.4 Slot 6

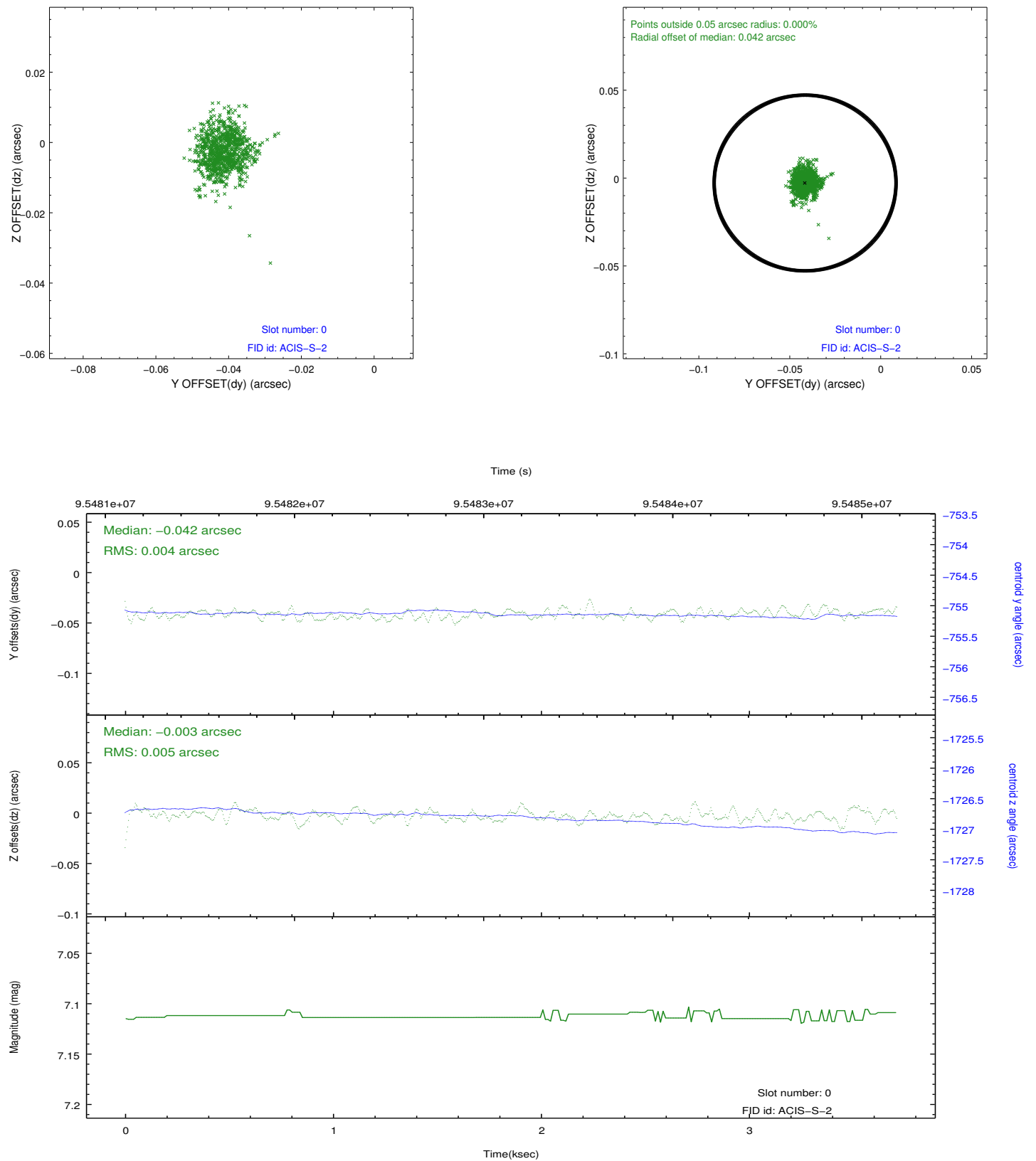


2.4.5 Slot 7

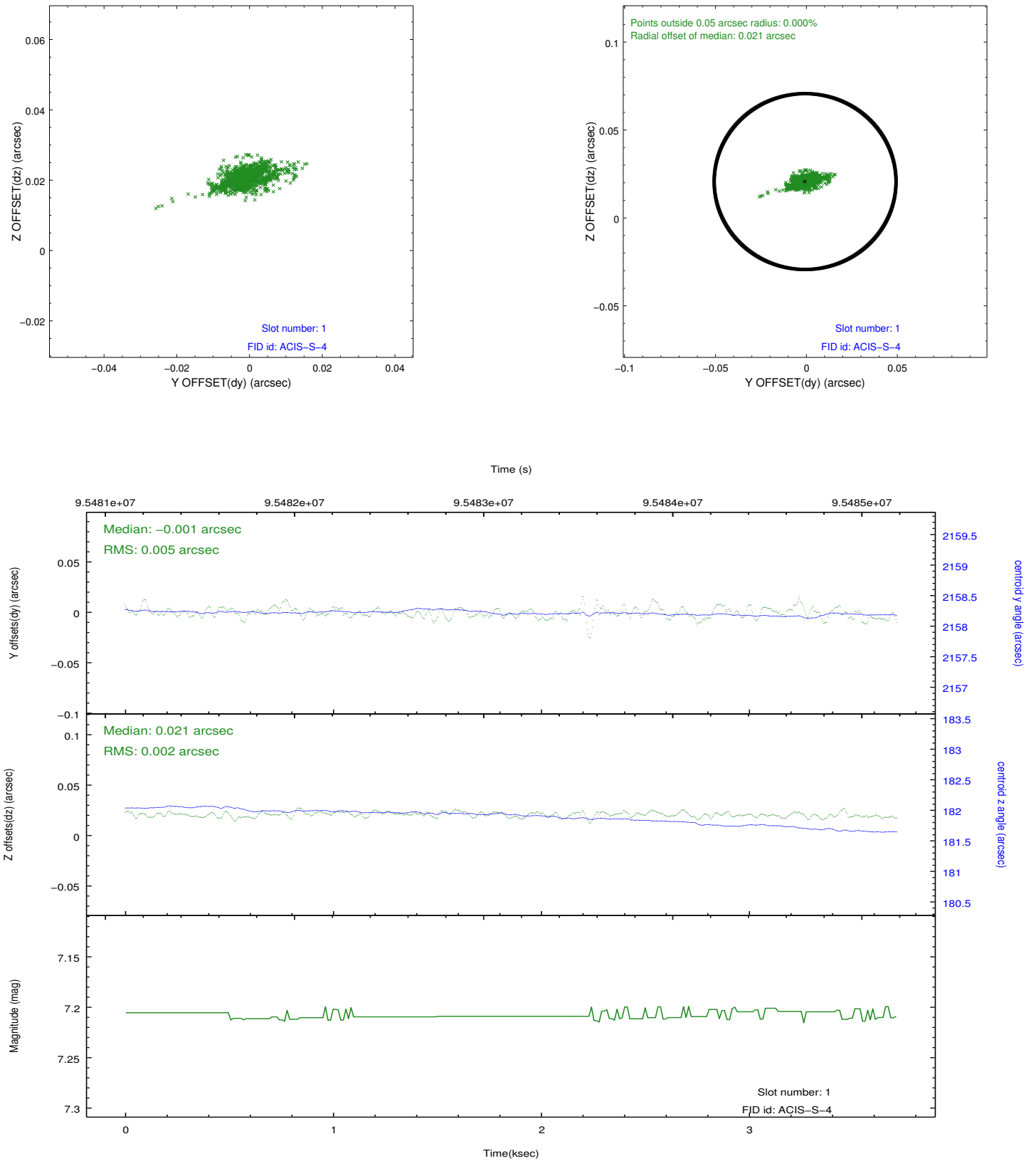


2.5 FID Slots

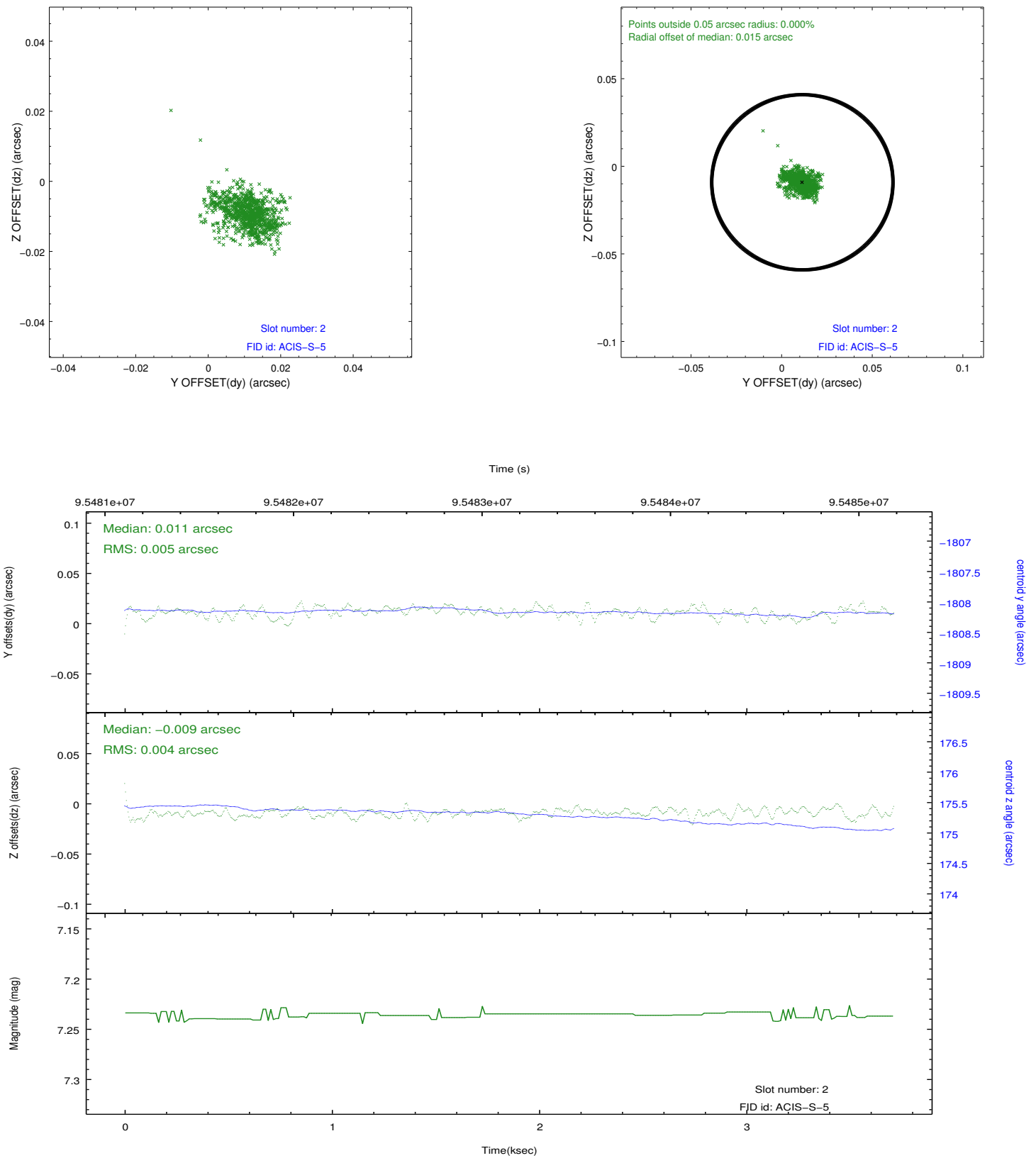
2.5.1 Slot 0



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	3.638

A.2 Comments

Monitor constraint met. 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.