

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8081 - L2 Version 2
Chandra X-Ray Center

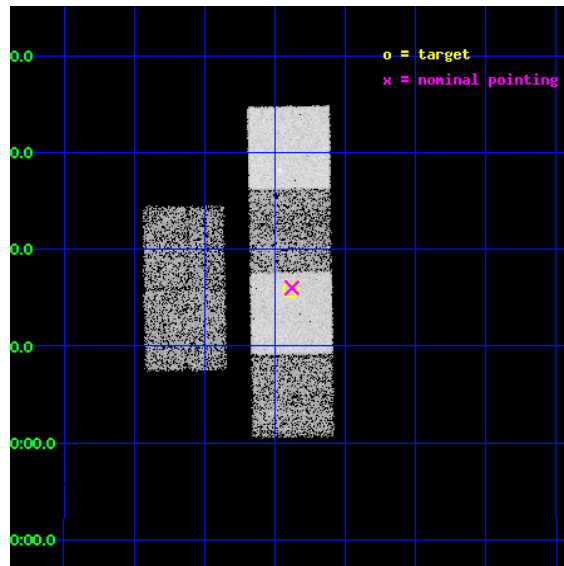
L2 Processing Date : May 10 2012

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1 Front

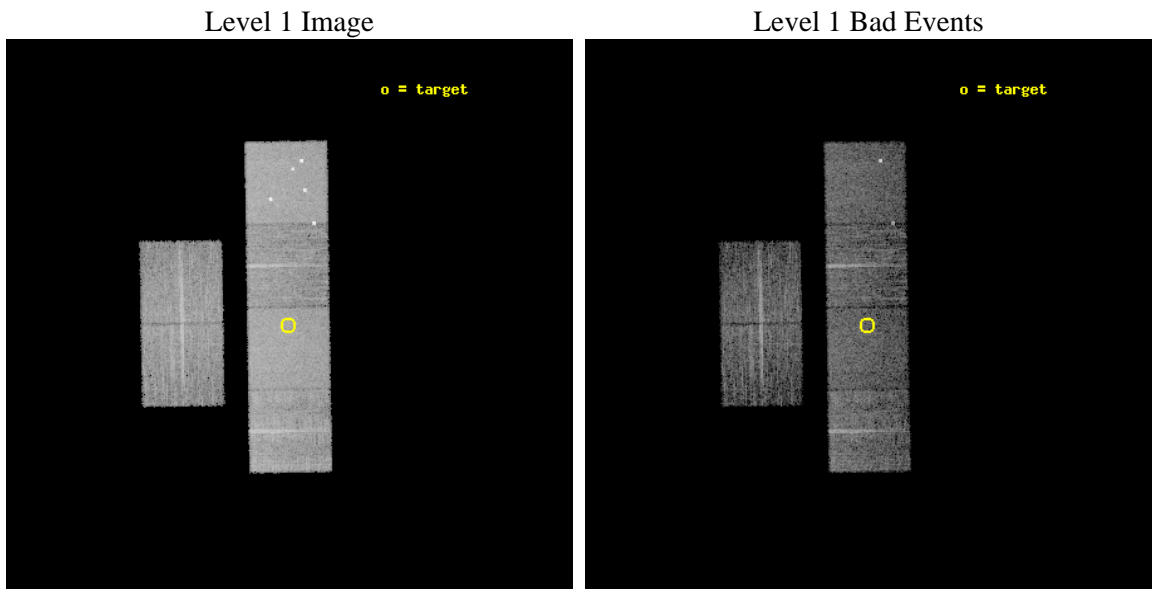
seq_num	900622	Sequence number
obs_id	8081	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1431	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.0975	Observer's specified target RA [deg]
dec_targ	11.262833	Observer's specified target Dec [deg]
ra_nom	188.09491581036	Nominal RA [deg]
dec_nom	11.267120564311	Nominal Dec [deg]
roll_nom	89.101140792915	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5154.1286144853	Sum of GTIs [s]
livetime	5088.863934525	Livetime [s]
ontime2	5154.1696544886	Sum of GTIs [s]
ontime3	5154.0054944754	Sum of GTIs [s]
ontime5	5154.087574482	Sum of GTIs [s]
ontime6	5154.0465344787	Sum of GTIs [s]
ontime7	5154.1286144853	Sum of GTIs [s]
ontime8	5147.4823744297	Sum of GTIs [s]
l2events	85202	Number of level 2 events



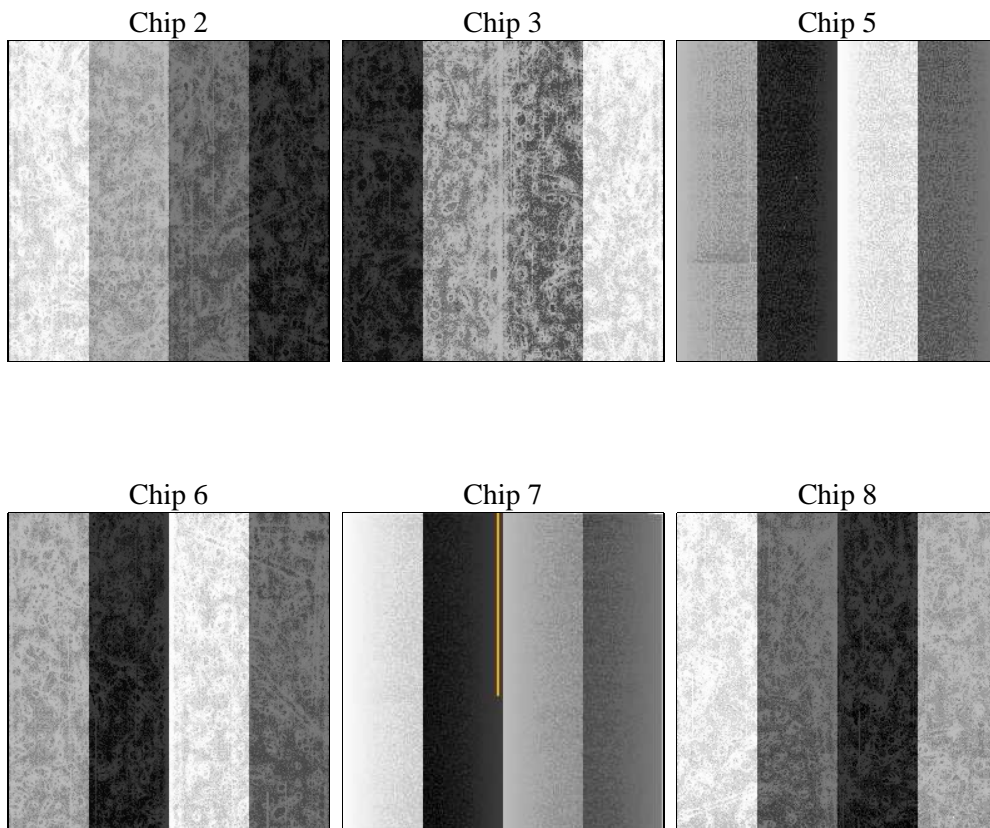
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5154.1286144853	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5154.1696544886	Sum of GTIs [s]
date	2012-05-10T08:13:44	Date and time of file creation	ontime3	5154.0054944754	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5154.087574482	Sum of GTIs [s]
			ontime6	5154.0465344787	Sum of GTIs [s]
			ontime7	5154.1286144853	Sum of GTIs [s]
			ontime8	5147.4823744297	Sum of GTIs [s]
			l1events	367805	Number of level 1 events

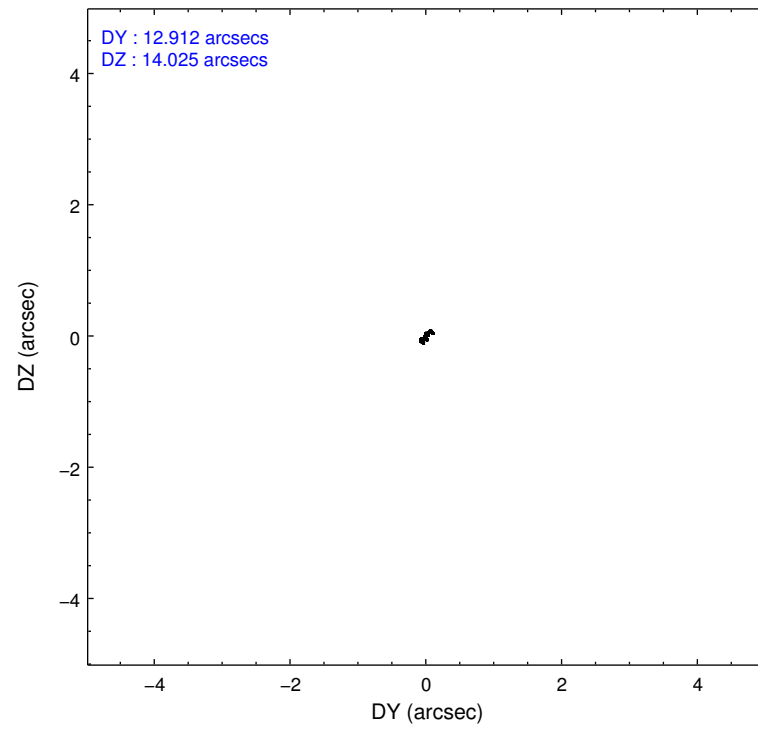
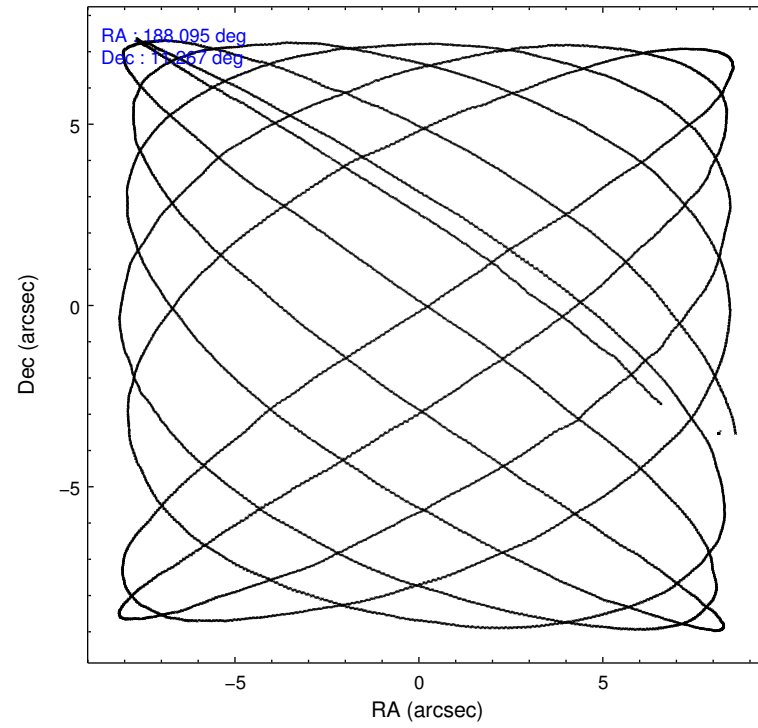
2.1.4 Events

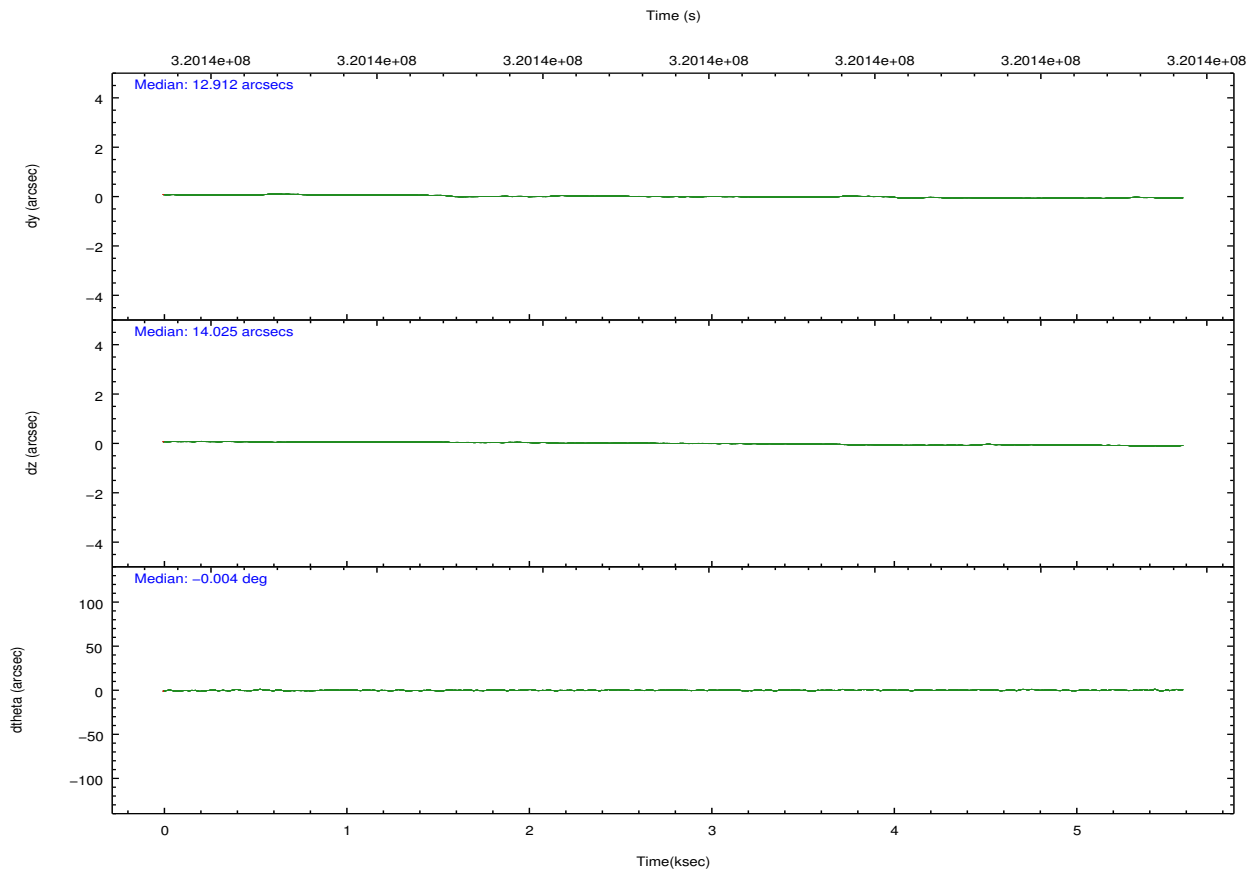
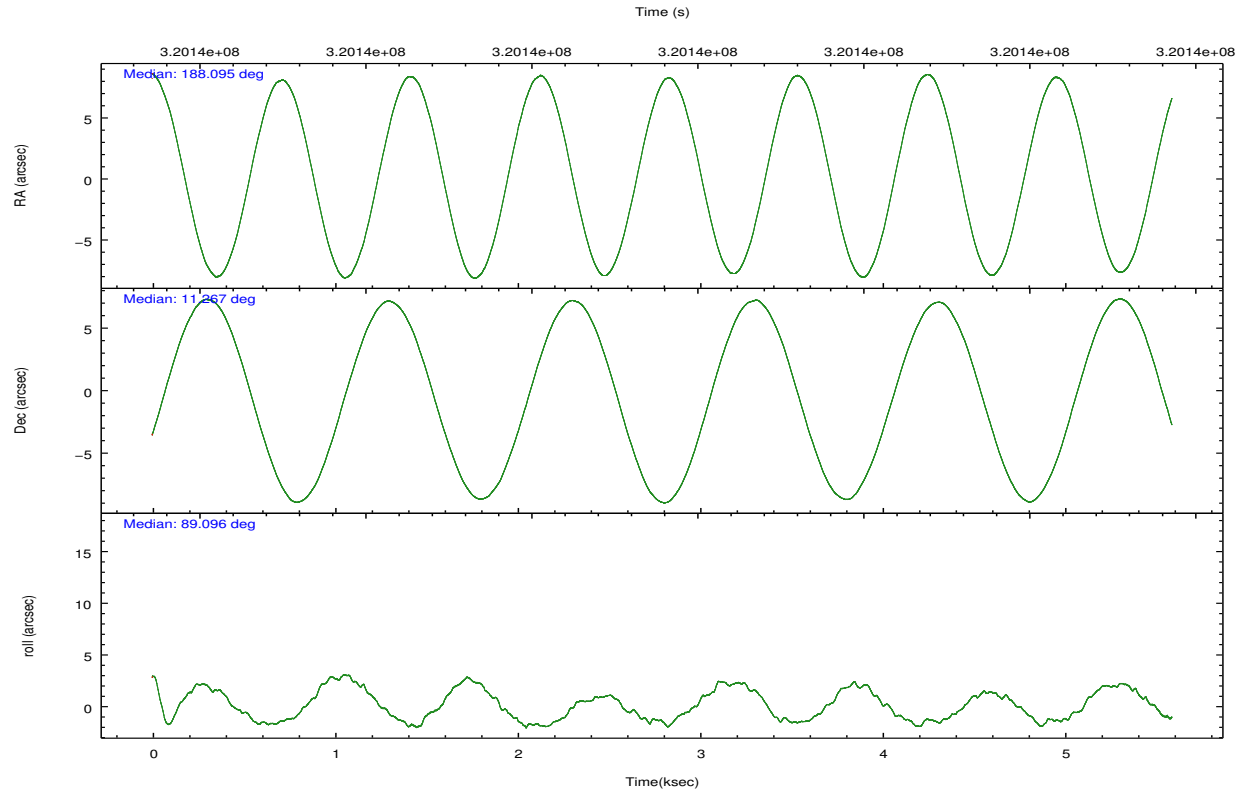
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50060	47953	83041	50485	70026	66240	grade 0 events	2714	2782	6278	2857	2634	4906
rejected events	43893	41868	43061	43905	40638	51373		5%	5%	7%	5%	3%	7%
rejected %	87%	87%	51%	86%	58%	77%	grade 1 events	40	36	201	18	69	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1318	1113	11775	1355	6136	3280
								2%	2%	14%	2%	8%	4%
							grade 3 events	594	540	1555	571	2565	1527
								1%	1%	1%	1%	3%	2%
							grade 4 events	582	567	1369	555	2445	1412
								1%	1%	1%	1%	3%	2%
							grade 5 events	2052	2290	5947	2357	6487	3040
								4%	4%	7%	4%	9%	4%
							grade 6 events	966	1089	19057	1251	15641	3767
								1%	2%	22%	2%	22%	5%
							grade 7 events	41794	39536	36859	41521	34049	48263
								83%	82%	44%	82%	48%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	188.108864	188.0949158103566	CCD I2 on	O1	Y
[deg] Pointing Dec	11.243291	11.26712056431149	CCD I3 on	O2	Y
[deg] Pointing Roll	88.941785	89.10114079291506	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	320136181.184000	320135650.47609	CCD S5 on	N	N
Observation start date	2008-02-23T06:41:56	2008-02-23T06:34:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320141581.184000	320141805.60138	On-chip summing requested	N	N
Observation end date	2008-02-23T08:11:56	2008-02-23T08:16:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



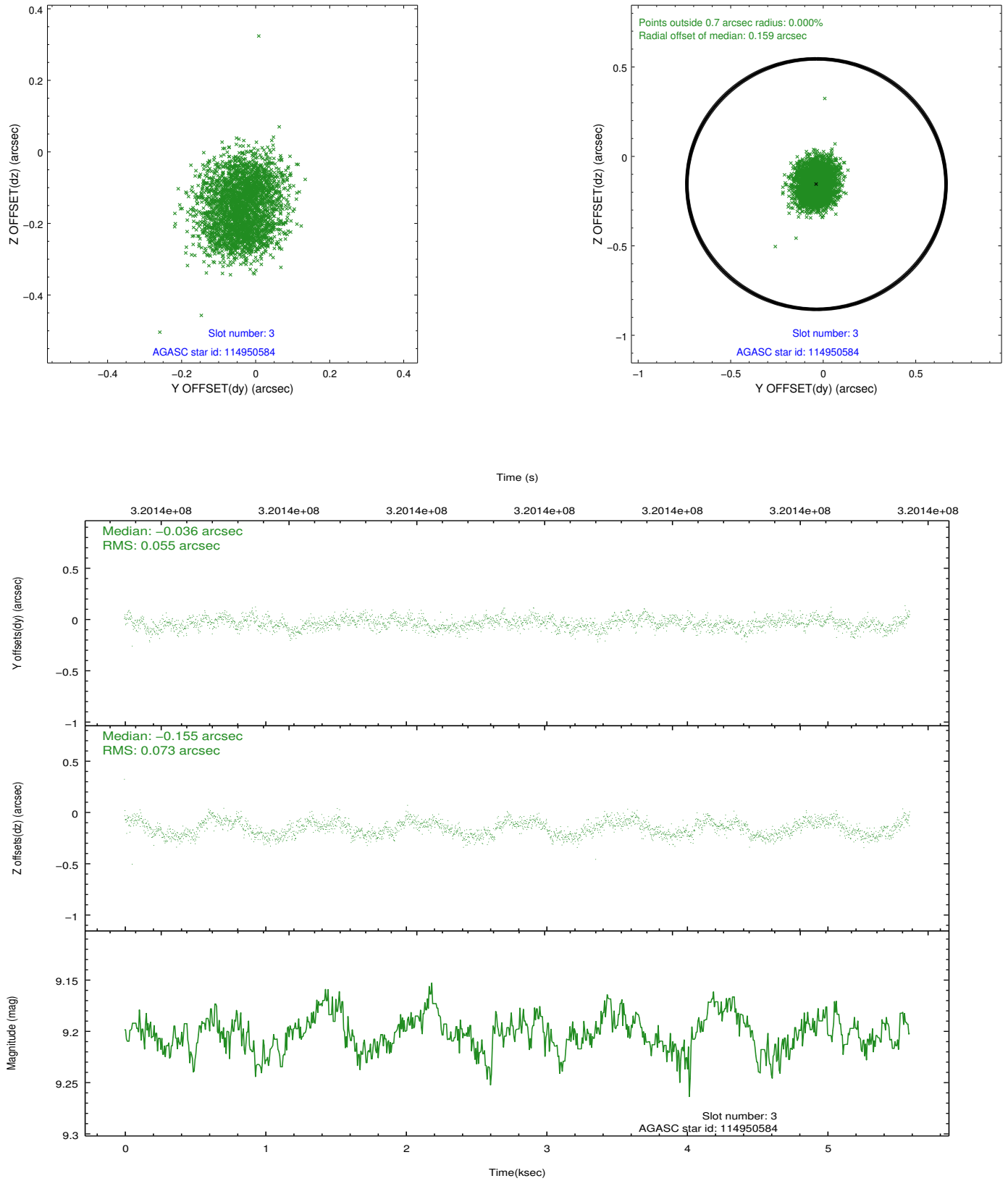


Slot Statistics

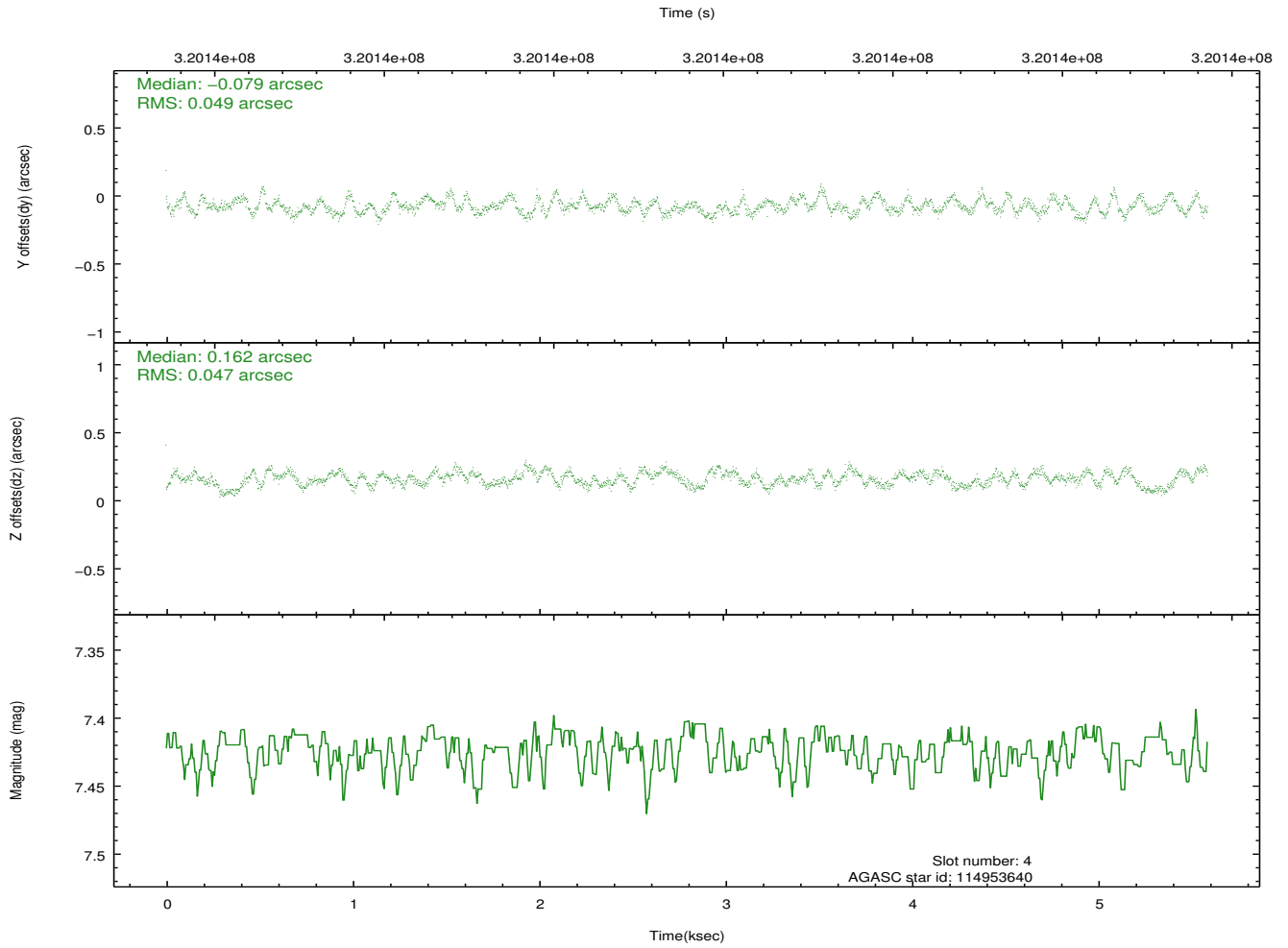
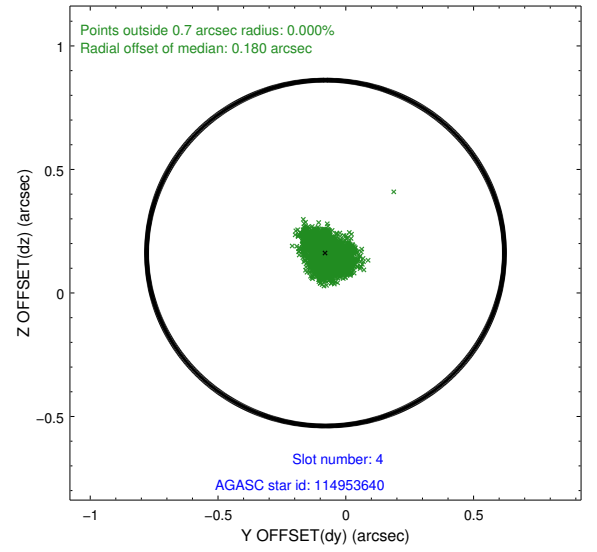
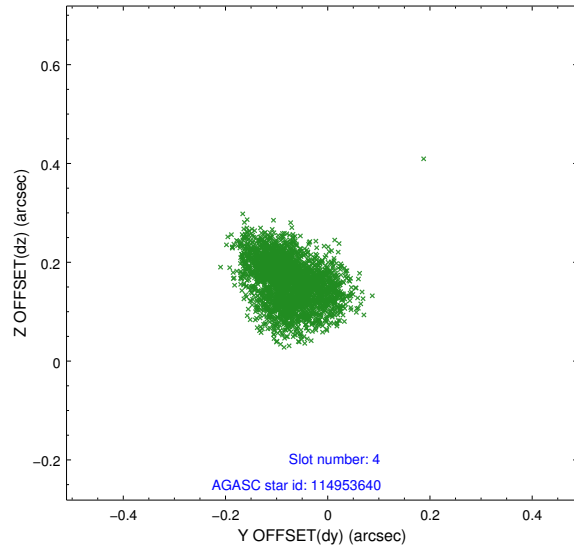
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1364	-0.042	-0.053	0.007	0.010	0.000000	0.000000	-765.86	-1735.43
1	FID	ACIS-S-4	7.19	1364	0.160	0.034	0.007	0.012	0.000000	0.000000	2147.12	172.05
2	FID	ACIS-S-5	7.23	1364	-0.150	0.027	0.007	0.012	0.000000	0.000000	-1817.45	166.90
3	GUIDE	114950584	9.20	2726	-0.036	-0.155	0.100	0.152	187.487323	11.827248	2063.47	2228.86
4	GUIDE	114953640	7.42	2727	-0.079	0.162	0.074	0.113	188.794711	11.547726	1144.12	-2397.19
5	GUIDE	114955592	8.11	2727	-0.116	0.014	0.062	0.101	188.657433	11.300977	245.61	-1933.19
6	GUIDE	114956088	7.80	2727	0.119	-0.035	0.067	0.101	188.583972	10.921101	-1127.55	-1700.69
7	GUIDE	114956456	8.17	2726	0.111	0.019	0.081	0.123	188.716512	10.836292	-1423.54	-2175.83

2.4 Star Slots

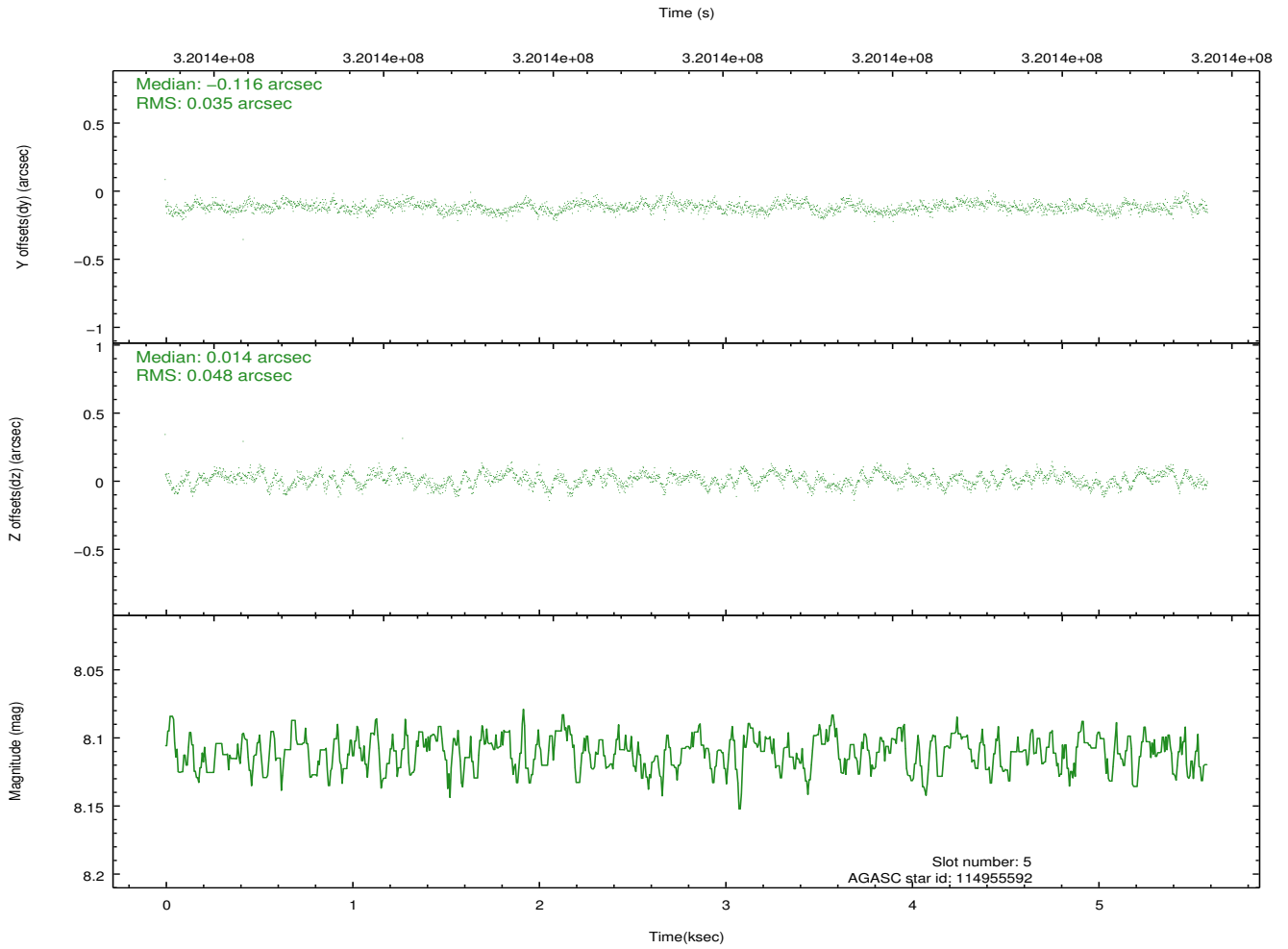
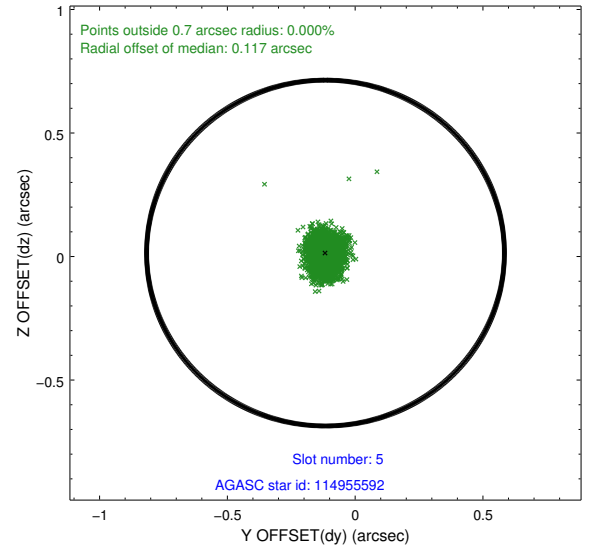
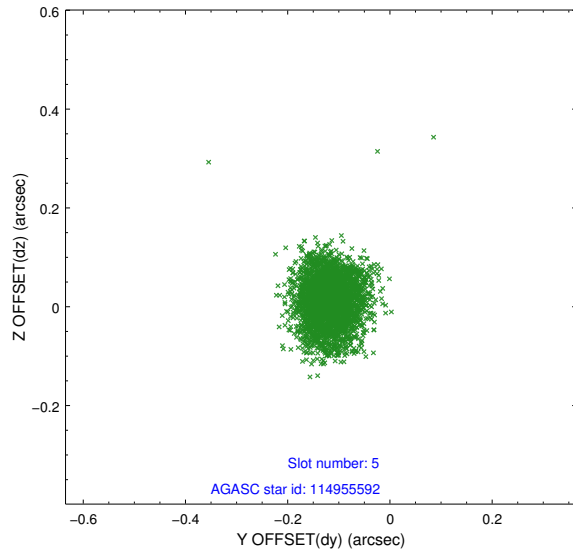
2.4.1 Slot 3



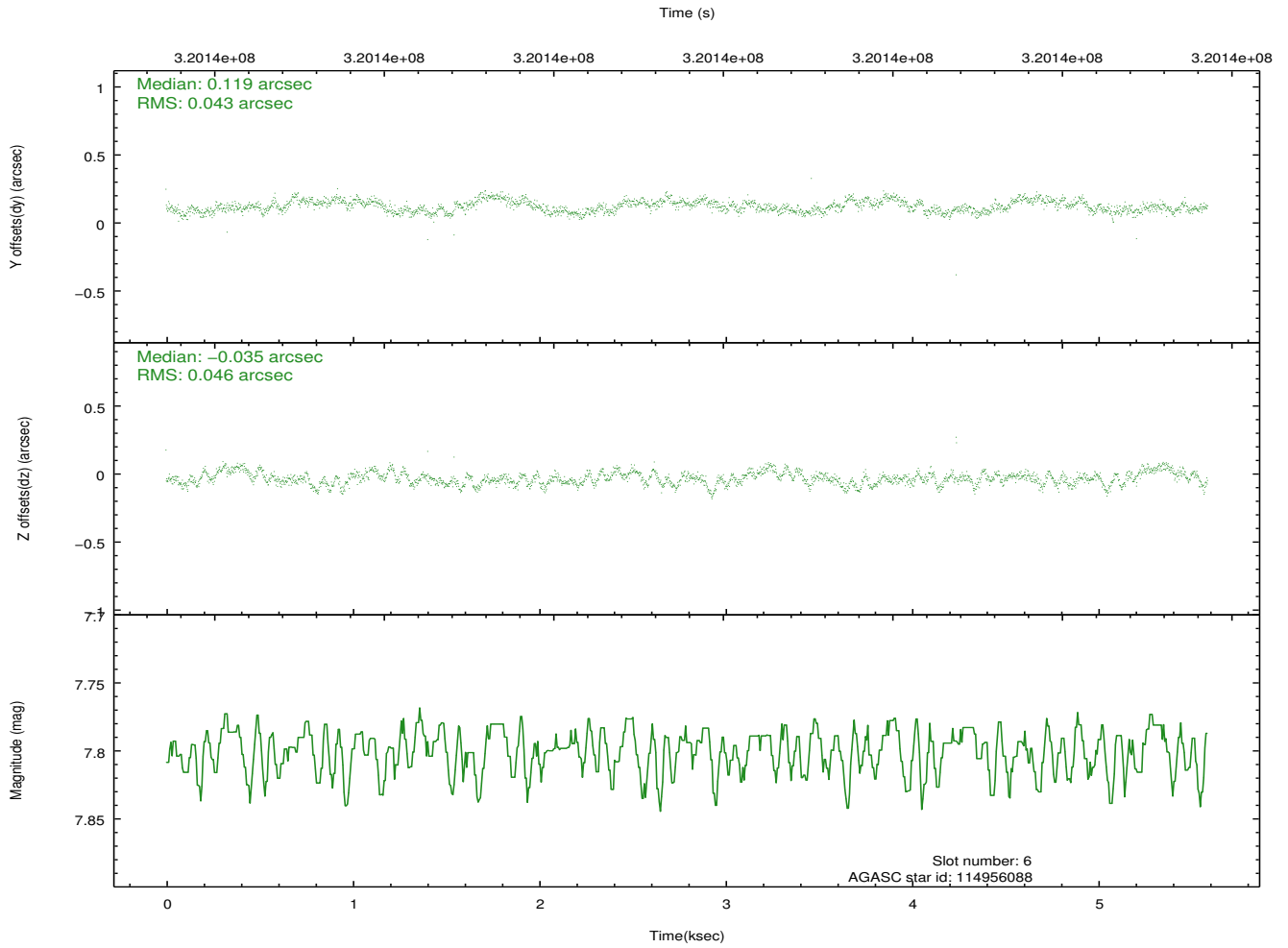
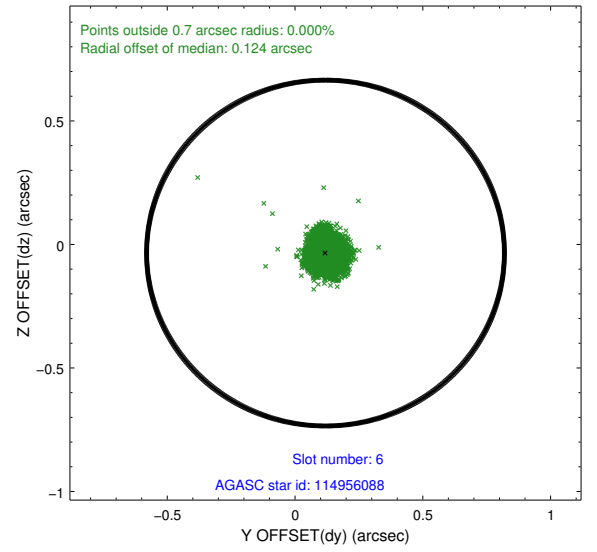
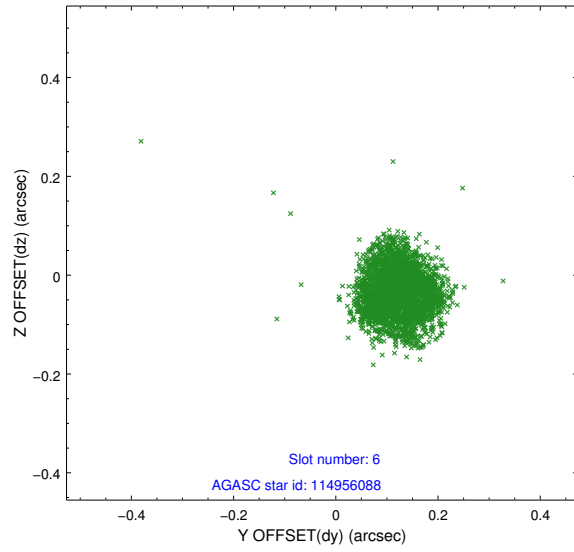
2.4.2 Slot 4



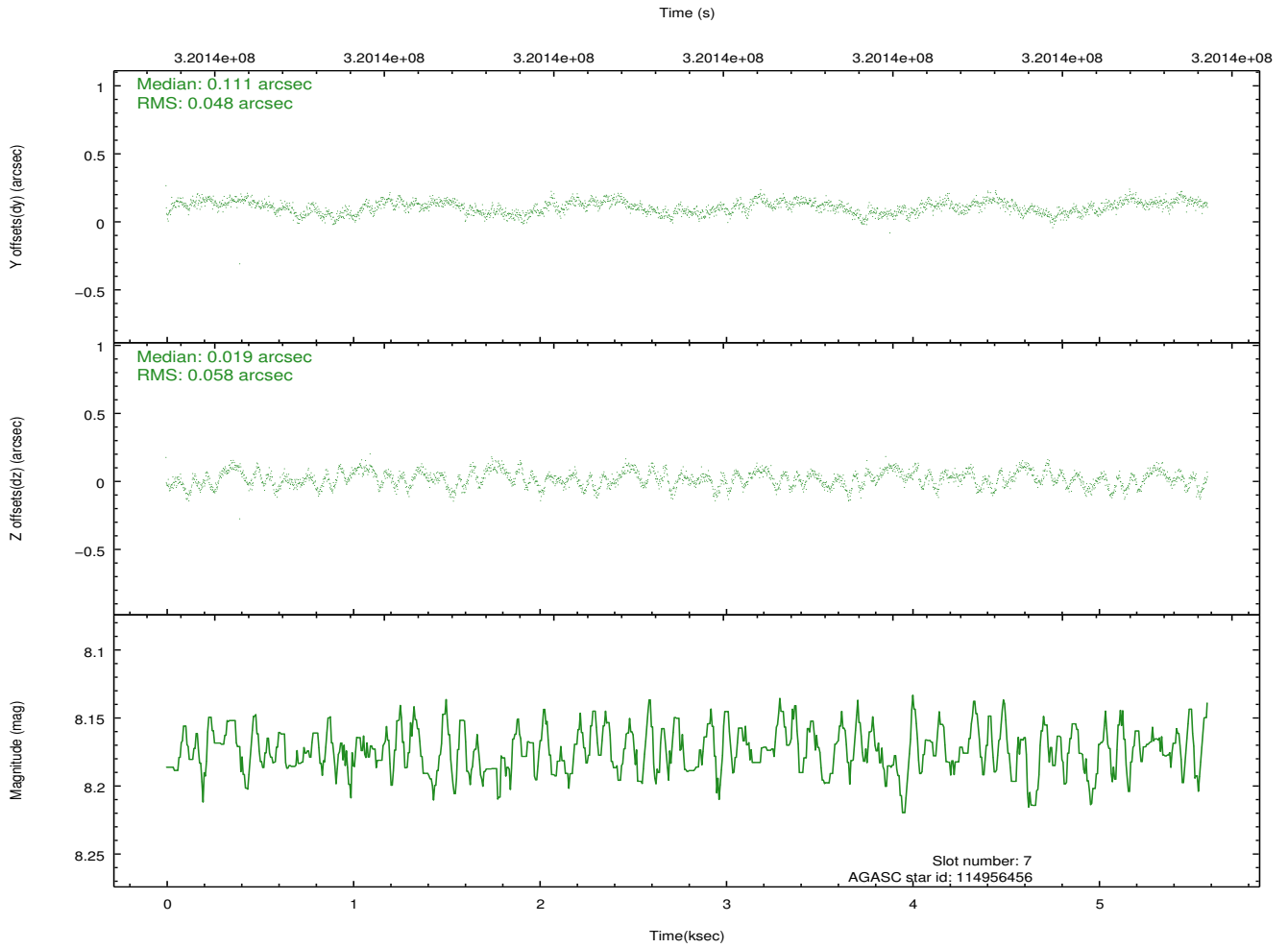
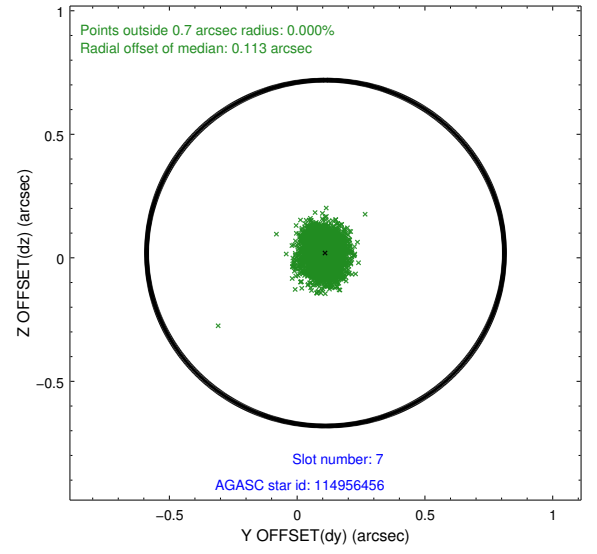
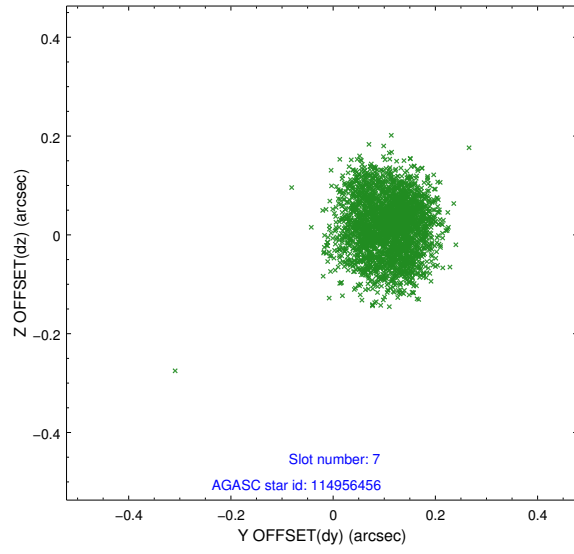
2.4.3 Slot 5



2.4.4 Slot 6

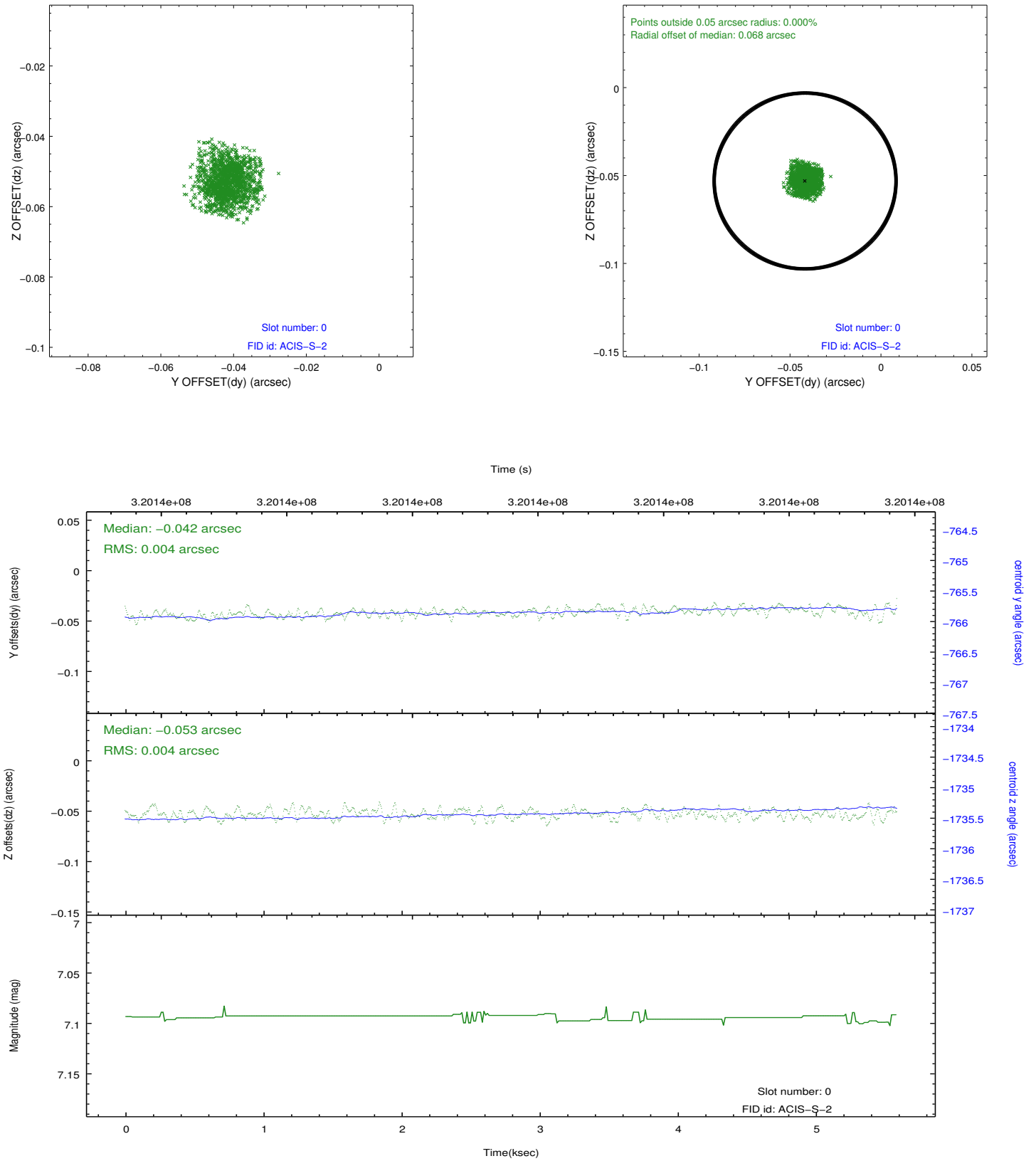


2.4.5 Slot 7

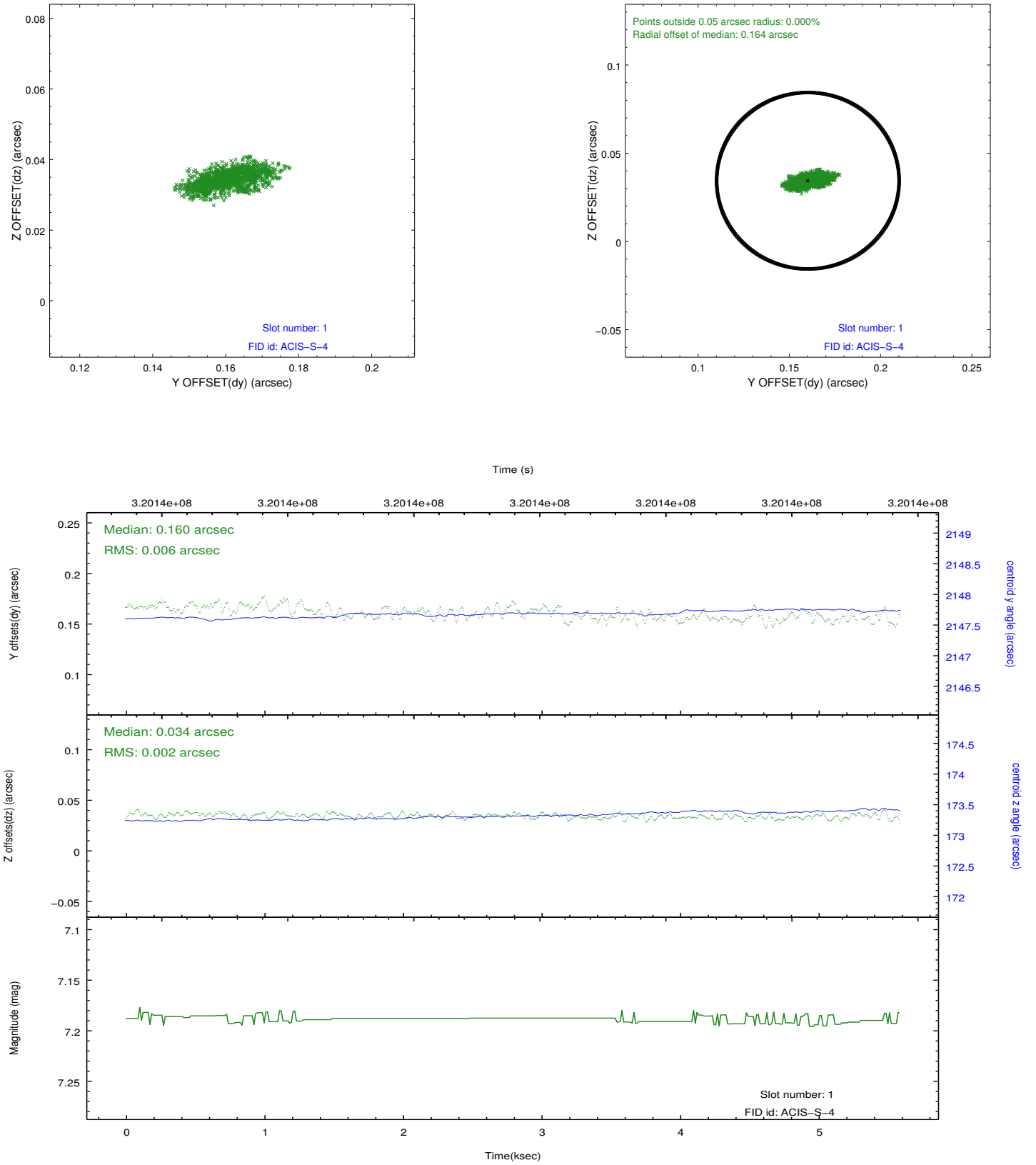


2.5 FID Slots

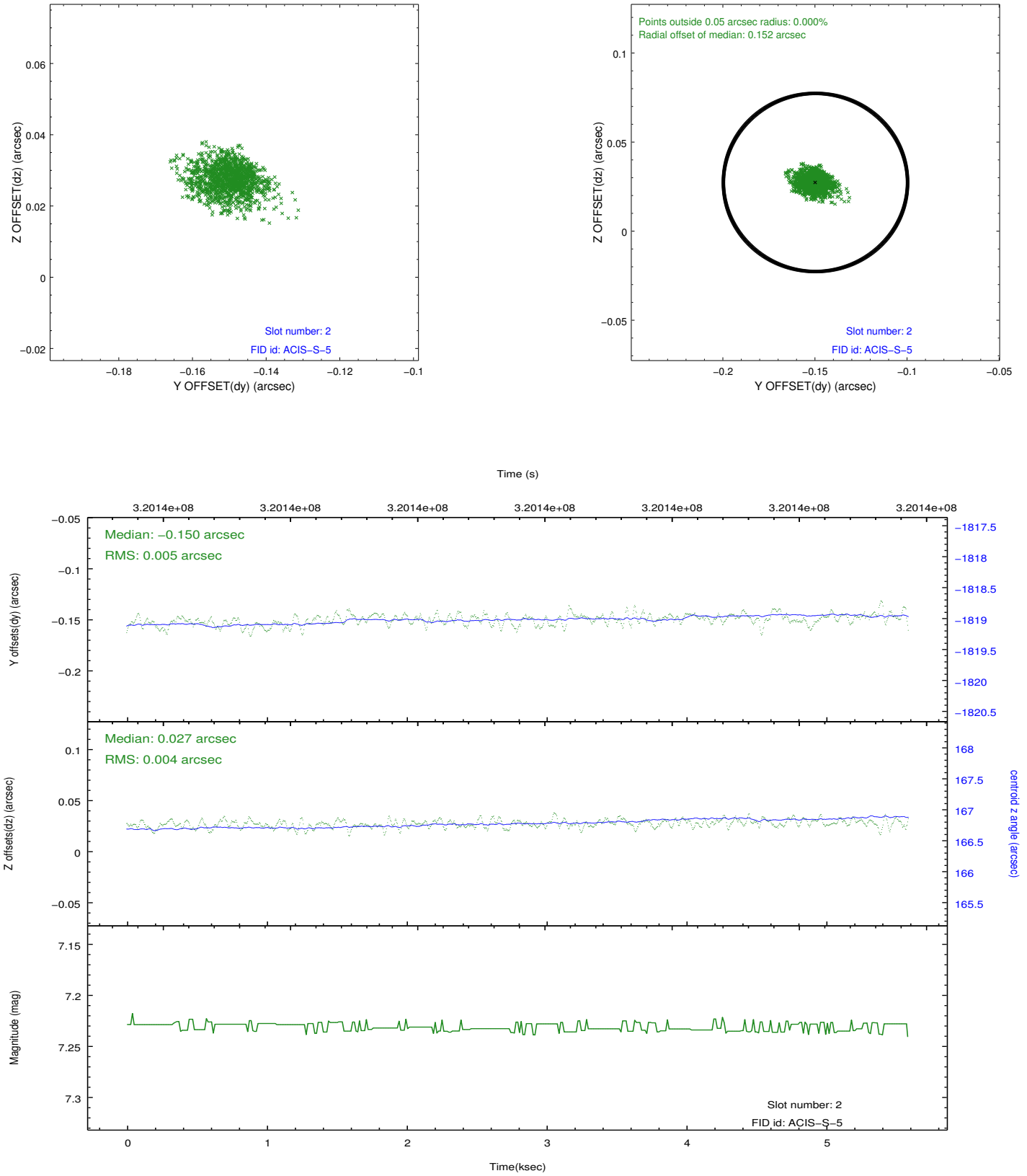
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint Proposal: Spitzer