

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8089 - L2 Version 2
Chandra X-Ray Center

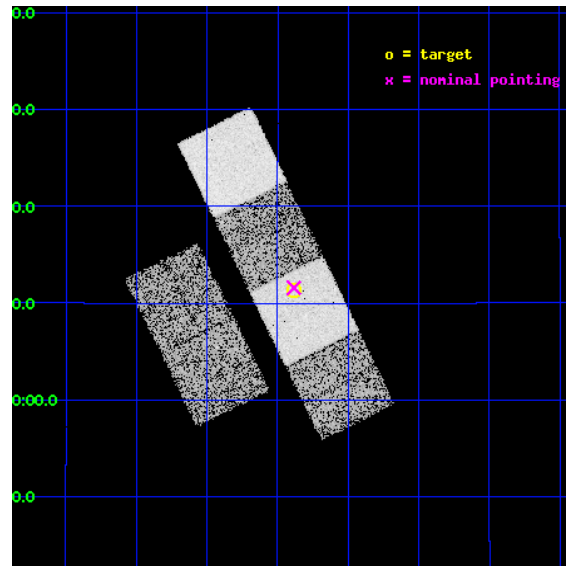
L2 Processing Date : May 4 2012

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1 Front

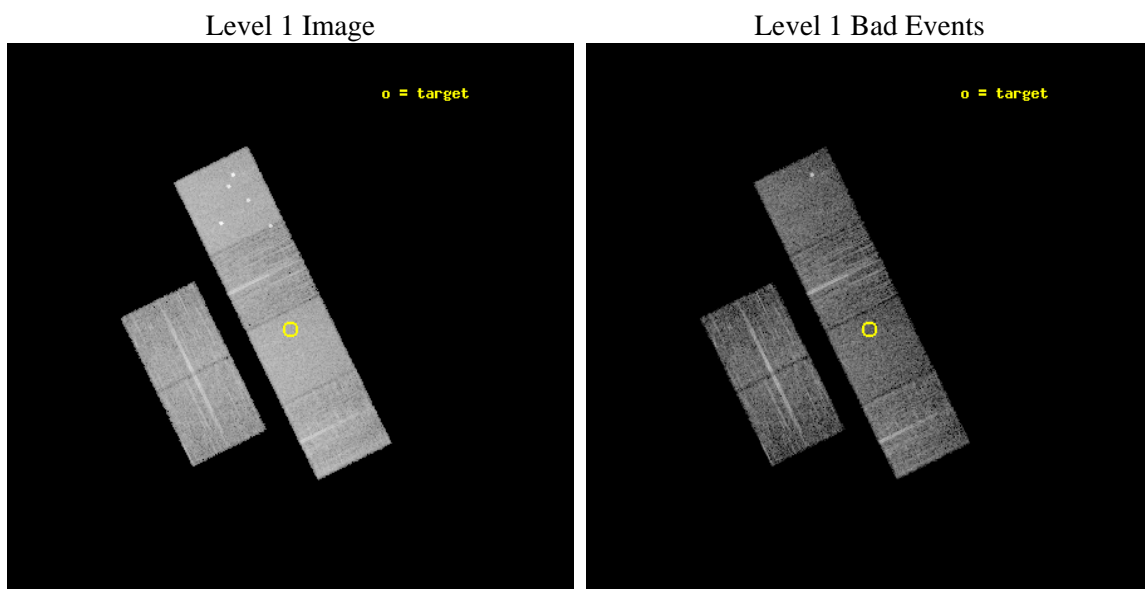
seq_num	900630	Sequence number
obs_id	8089	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.596667	Observer's specified target RA [deg]
dec_targ	10.188222	Observer's specified target Dec [deg]
ra_nom	182.59616934641	Nominal RA [deg]
dec_nom	10.193004246813	Nominal Dec [deg]
roll_nom	63.856805684162	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5526.3999794722	Sum of GTIs [s]
livetime	5456.4213753335	Livetime [s]
ontime2	5526.3999794722	Sum of GTIs [s]
ontime3	5526.3999794722	Sum of GTIs [s]
ontime5	5526.3999794722	Sum of GTIs [s]
ontime6	5526.3999794722	Sum of GTIs [s]
ontime7	5526.3999794722	Sum of GTIs [s]
ontime8	5526.3999794722	Sum of GTIs [s]
l2events	86794	Number of level 2 events



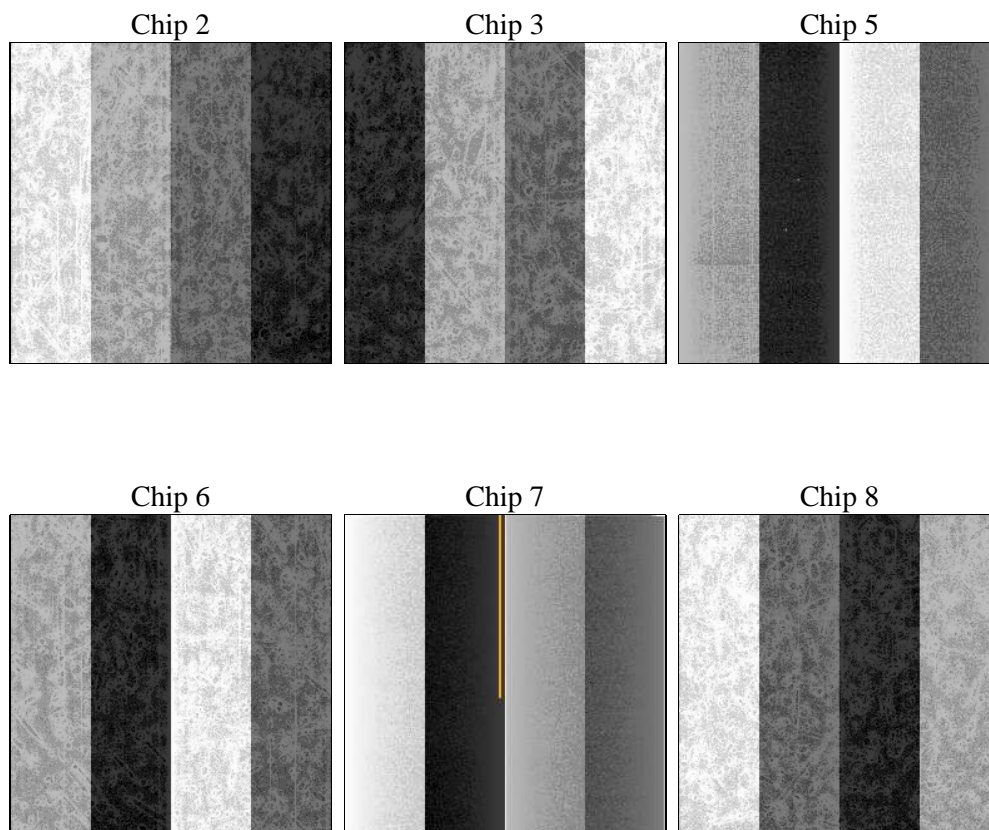
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5526.3999794722	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5526.3999794722	Sum of GTIs [s]
date	2012-05-04T14:03:11	Date and time of file creation	ontime3	5526.3999794722	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5526.3999794722	Sum of GTIs [s]
			ontime6	5526.3999794722	Sum of GTIs [s]
			ontime7	5526.3999794722	Sum of GTIs [s]
			ontime8	5526.3999794722	Sum of GTIs [s]
			l1events	407486	Number of level 1 events

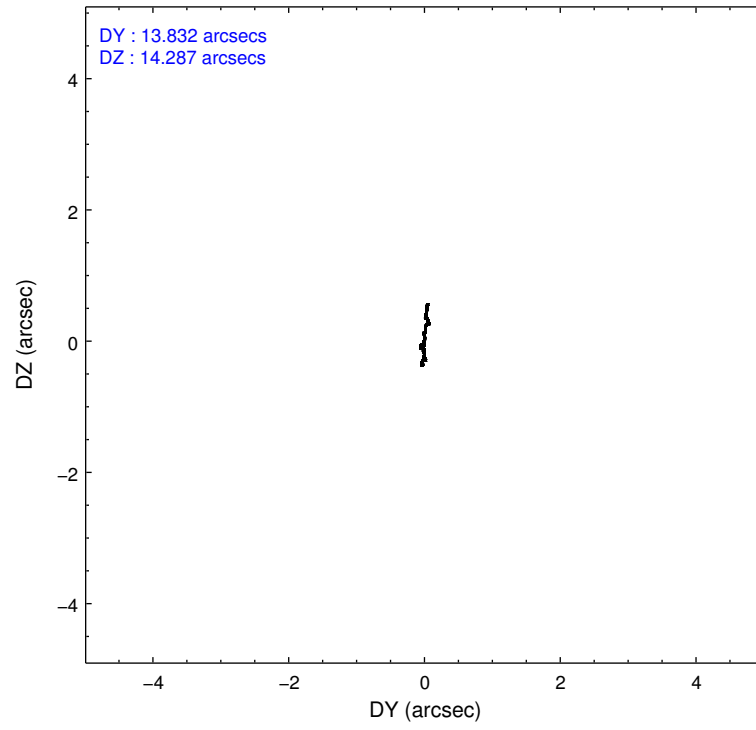
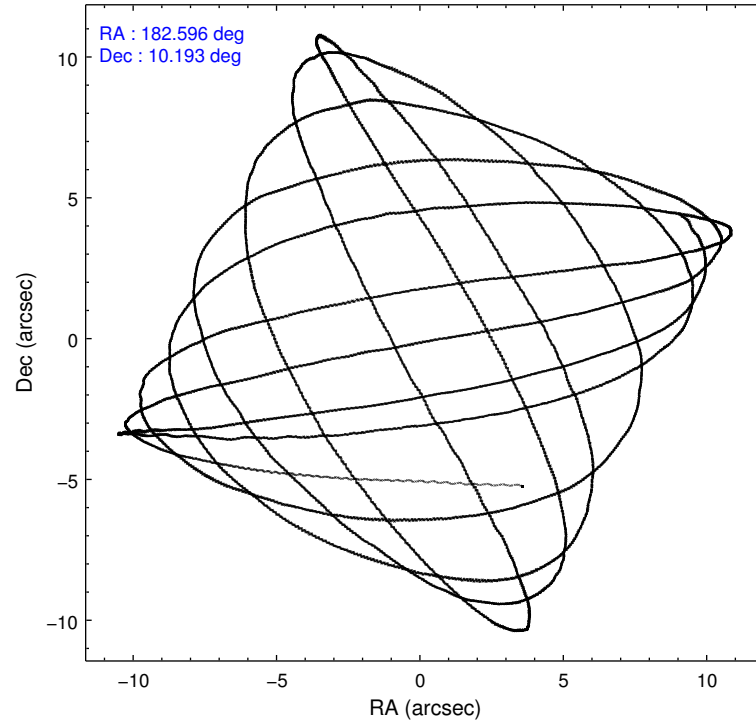
2.1.4 Events

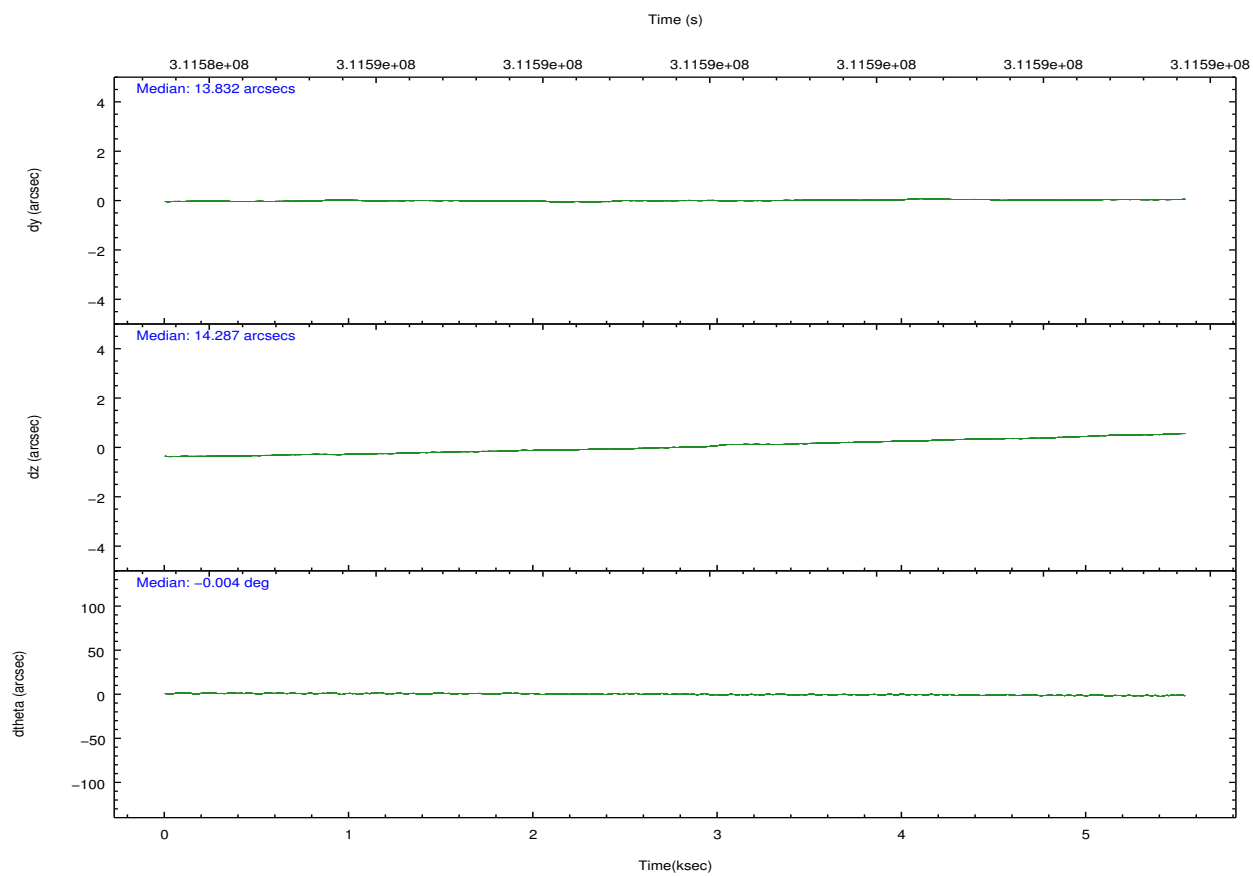
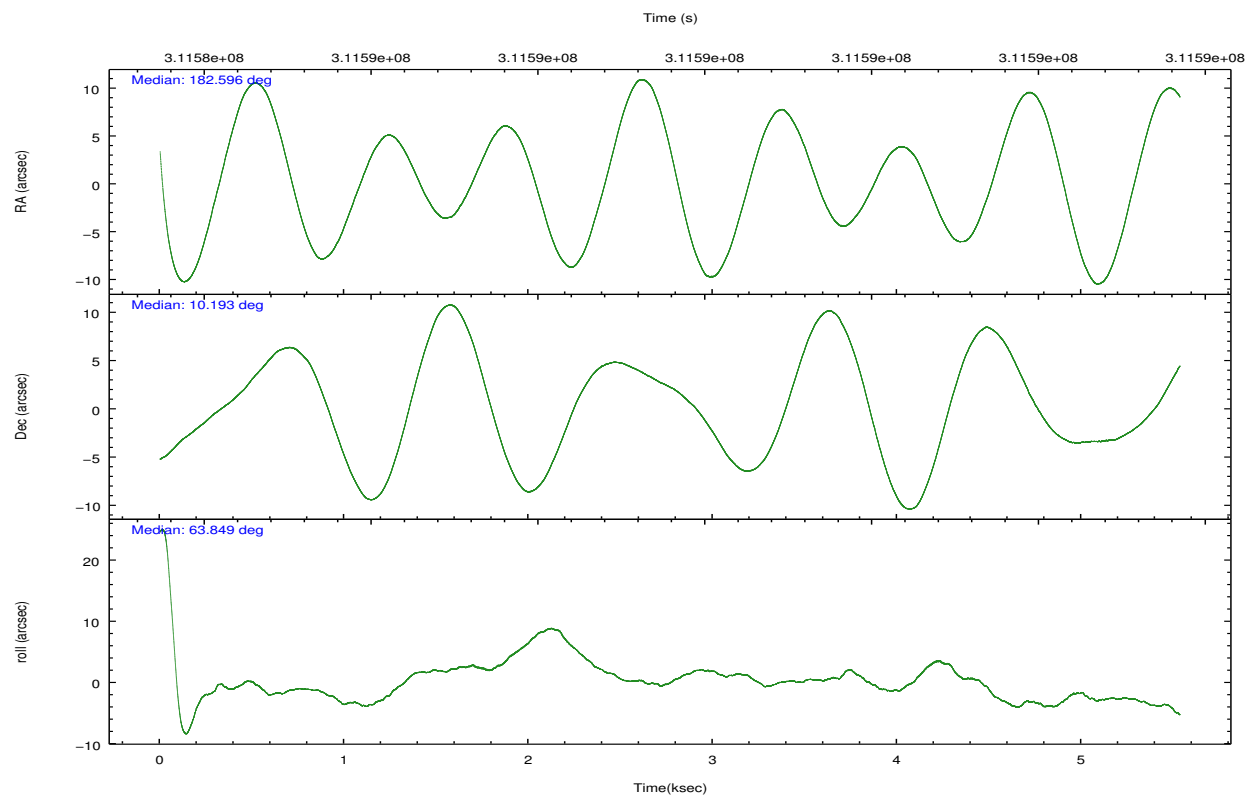
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	55779	53823	90940	58381	77052	71511	grade 0 events	3033	2815	6407	2586	2797	4991
rejected events	49443	47803	50289	52153	46958	57246		5%	5%	7%	4%	3%	6%
rejected %	88%	88%	55%	89%	60%	80%	grade 1 events	24	46	198	24	78	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1518	1284	12900	1415	6610	3547
								2%	2%	14%	2%	8%	4%
							grade 3 events	606	619	1448	667	2731	1556
								1%	1%	1%	1%	3%	2%
							grade 4 events	535	611	1357	604	2702	1499
								0%	1%	1%	1%	3%	2%
							grade 5 events	2285	2543	6104	2540	7224	3512
								4%	4%	6%	4%	9%	4%
							grade 6 events	1102	1129	21554	1390	17379	3835
								1%	2%	23%	2%	22%	5%
							grade 7 events	46676	44776	40972	49155	37531	52513
								83%	83%	45%	84%	48%	73%

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	182.598433	182.5961693464074	CCD I2 on	O1	Y
[deg] Pointing Dec	10.165794	10.1930042468135	CCD I3 on	O2	Y
[deg] Pointing Roll	63.699695	63.85680568416242	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)	311585163.184000	311583920.79948	CCD S5 on	N	N
Observation start date	2007-11-16T07:24:58	2007-11-16T07:05:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	311590563.184000	311591436.09984	On-chip summing requested	N	N
Observation end date	2007-11-16T08:54:58	2007-11-16T09:10:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



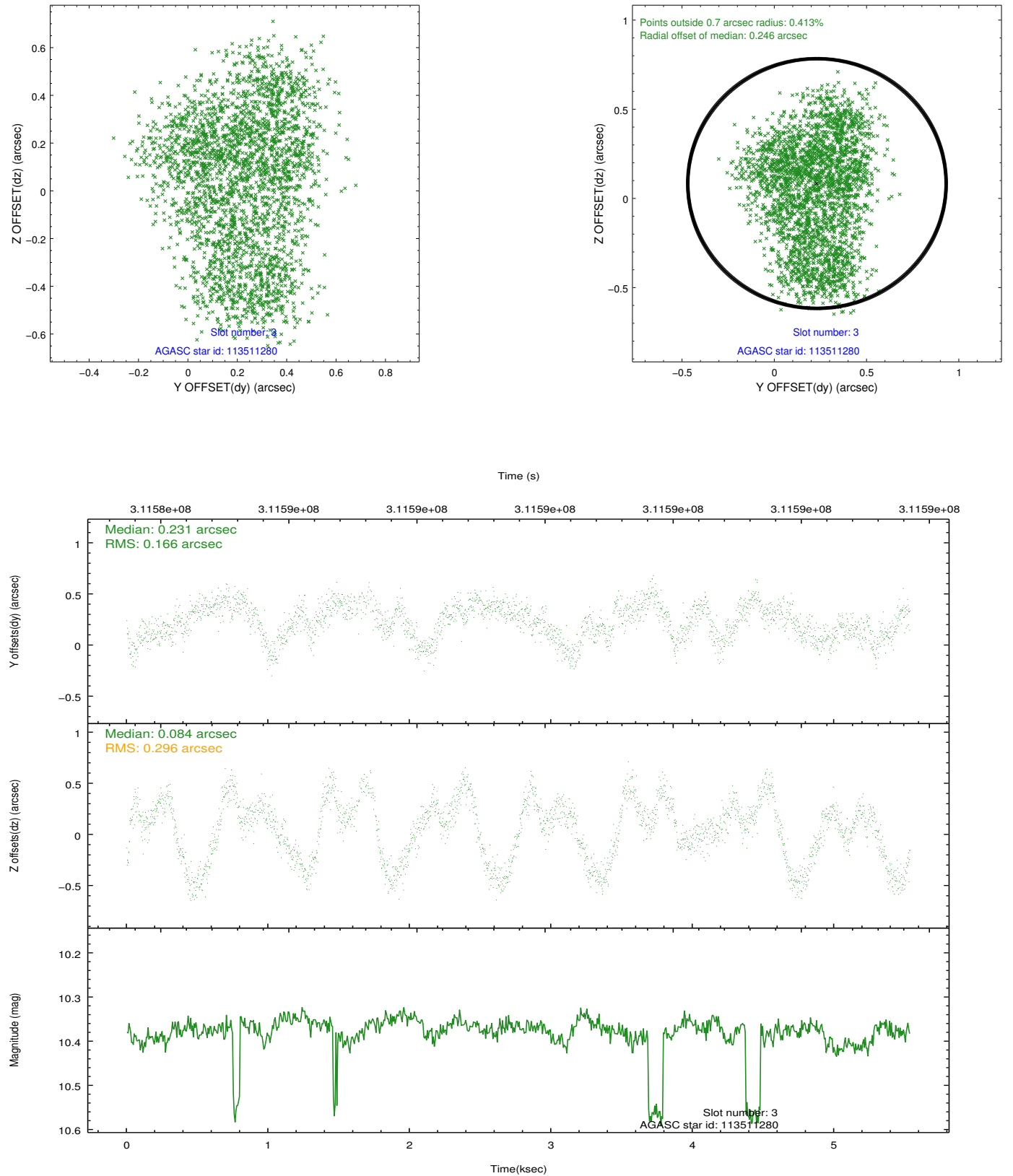


Slot Statistics

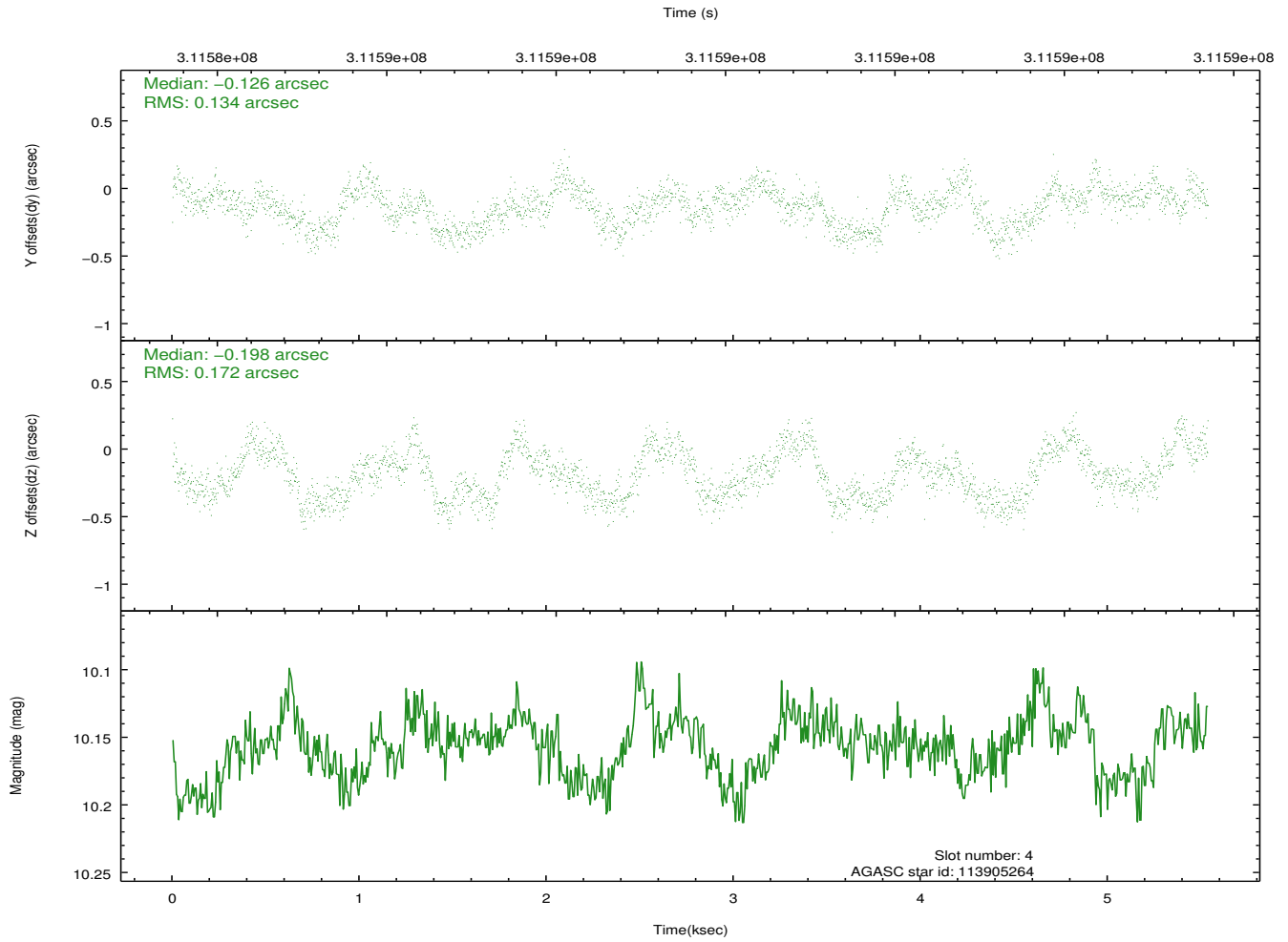
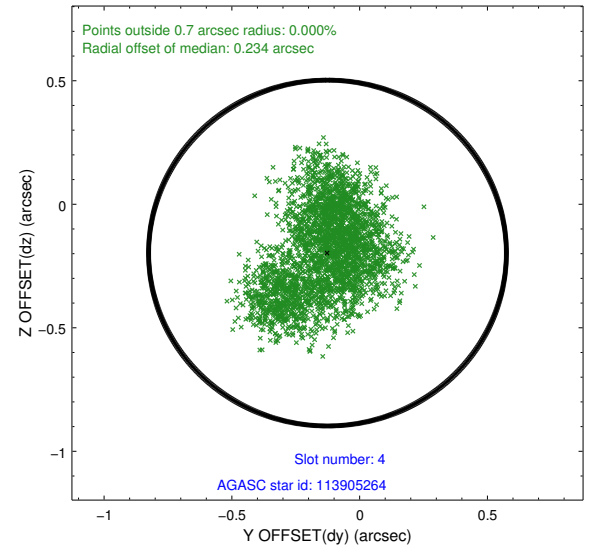
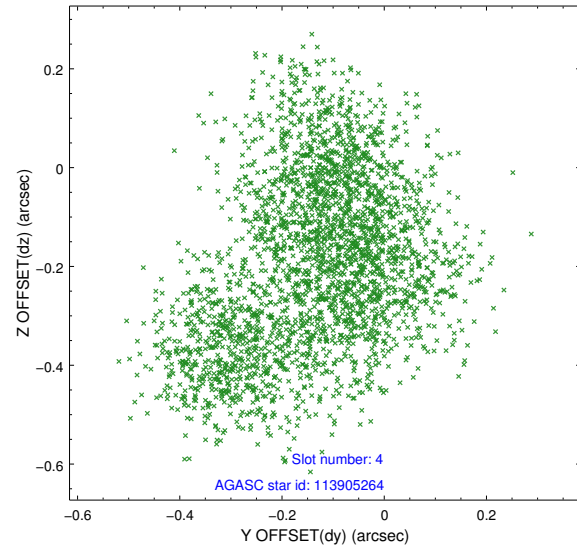
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1350	-0.060	-0.042	0.012	0.019	0.000000	0.000000	-766.82	-1735.73
1	FID	ACIS-S-4	7.19	1350	0.187	0.040	0.007	0.014	0.000000	0.000000	2146.19	171.72
2	FID	ACIS-S-5	7.22	1350	-0.157	0.010	0.011	0.017	0.000000	0.000000	-1818.38	166.58
3	GUIDE	113511280	10.38	2661	0.231	0.084	0.371	0.570	182.700155	9.746408	-1192.92	-991.97
4	GUIDE	113905264	10.16	2691	-0.126	-0.198	0.240	0.359	182.445692	10.343633	334.17	768.48
5	GUIDE	113906616	7.93	2699	-0.076	-0.009	0.128	0.195	183.239714	10.037718	594.93	-2243.29
6	GUIDE	113909952	9.81	2628	0.078	0.079	0.165	0.259	182.703120	10.082649	-103.20	-465.83
7	GUIDE	113910864	6.22	2700	-0.086	0.072	0.124	0.198	183.358076	10.262342	1507.03	-2255.96

2.4 Star Slots

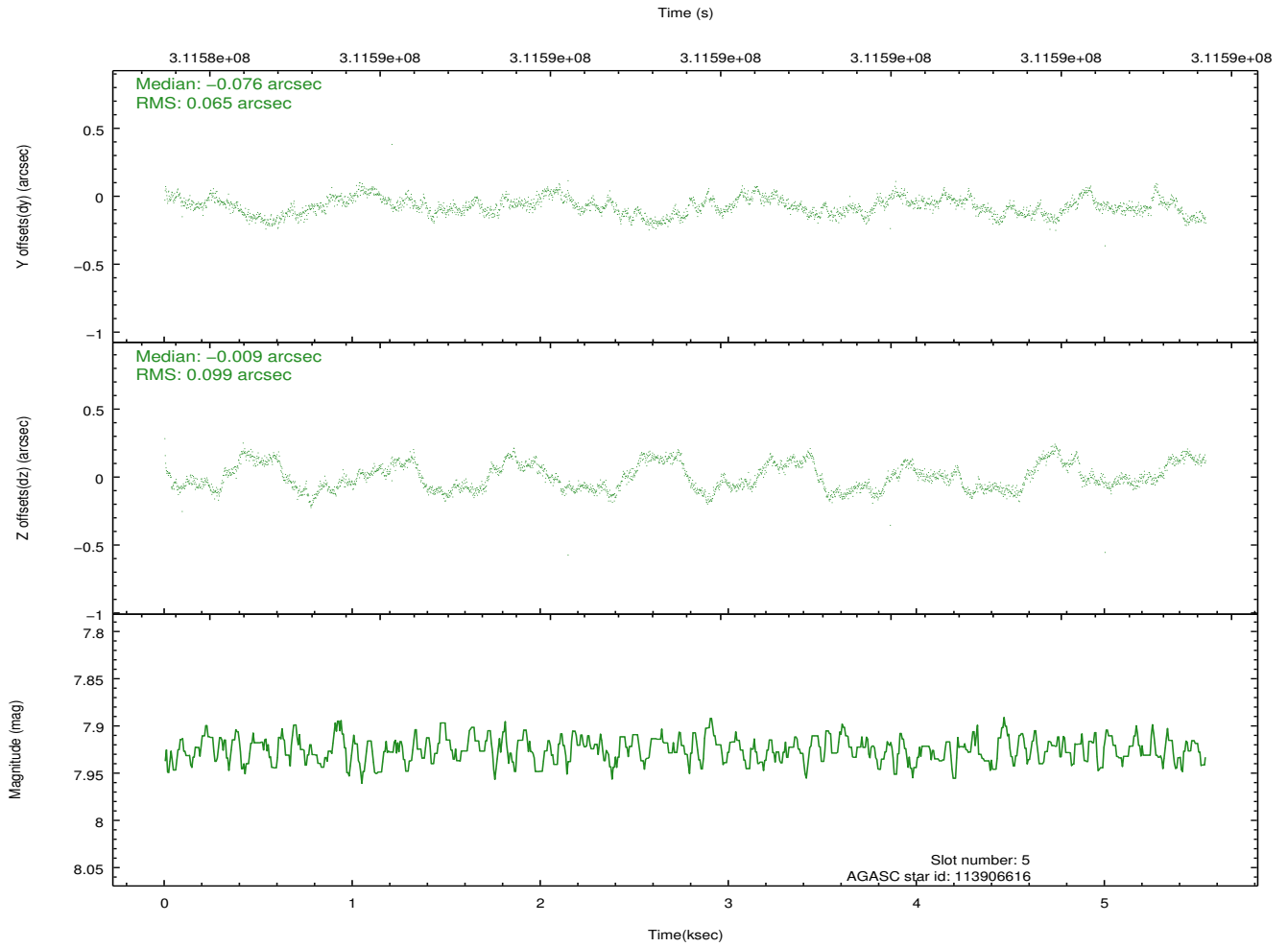
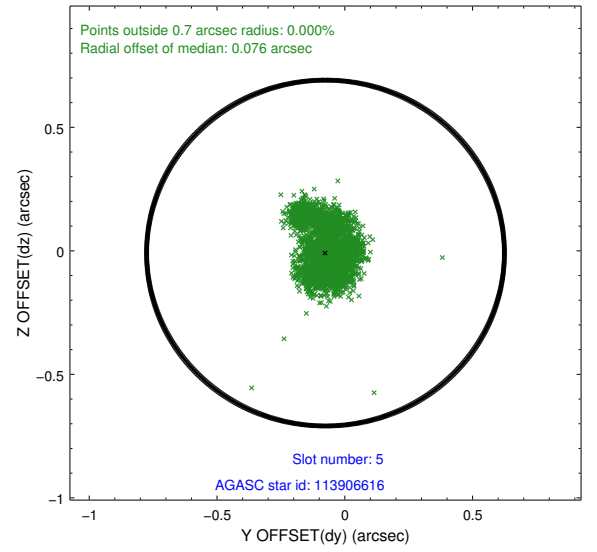
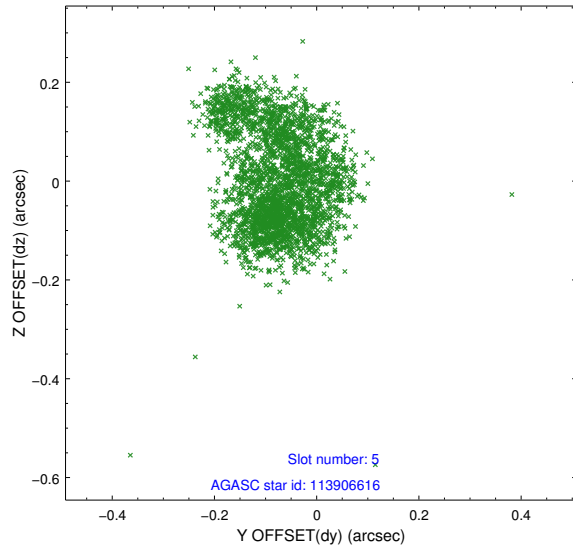
2.4.1 Slot 3



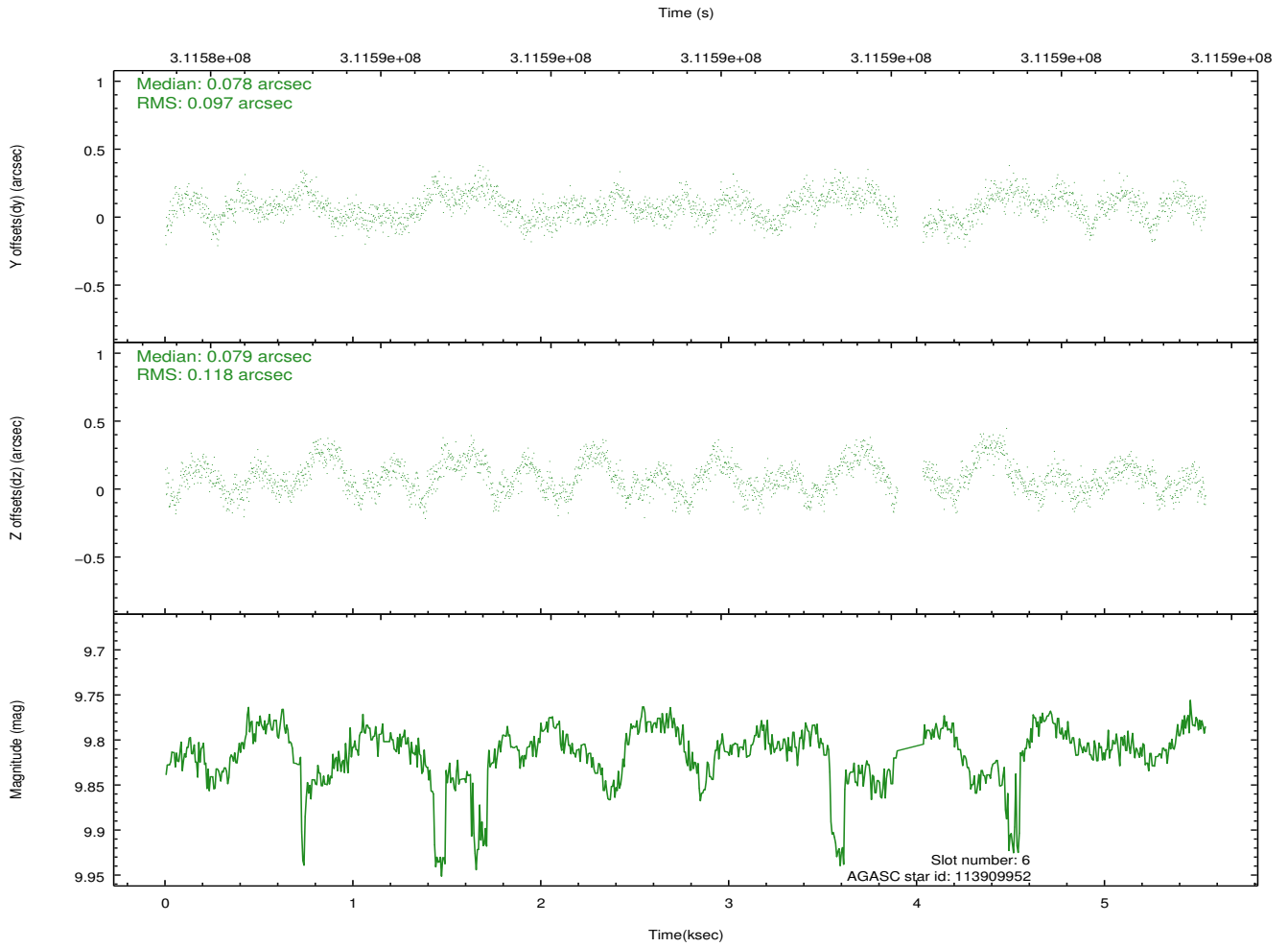
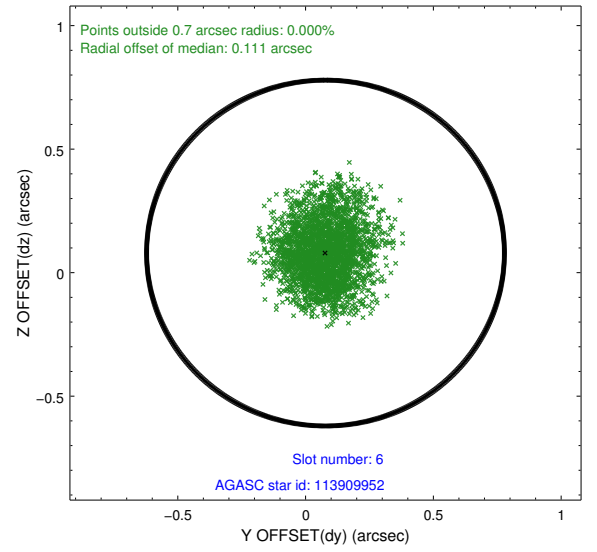
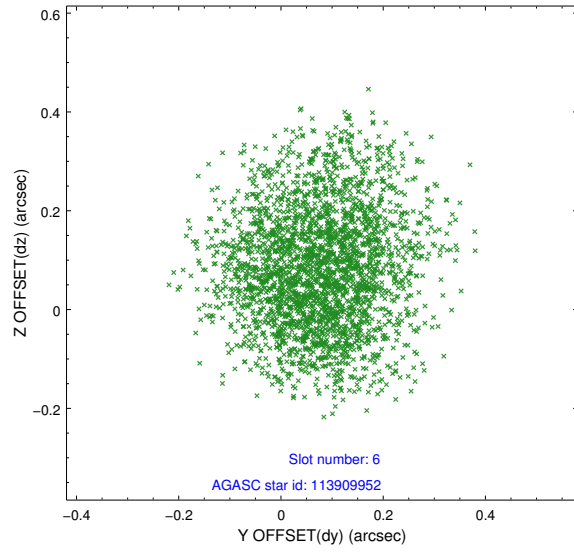
2.4.2 Slot 4



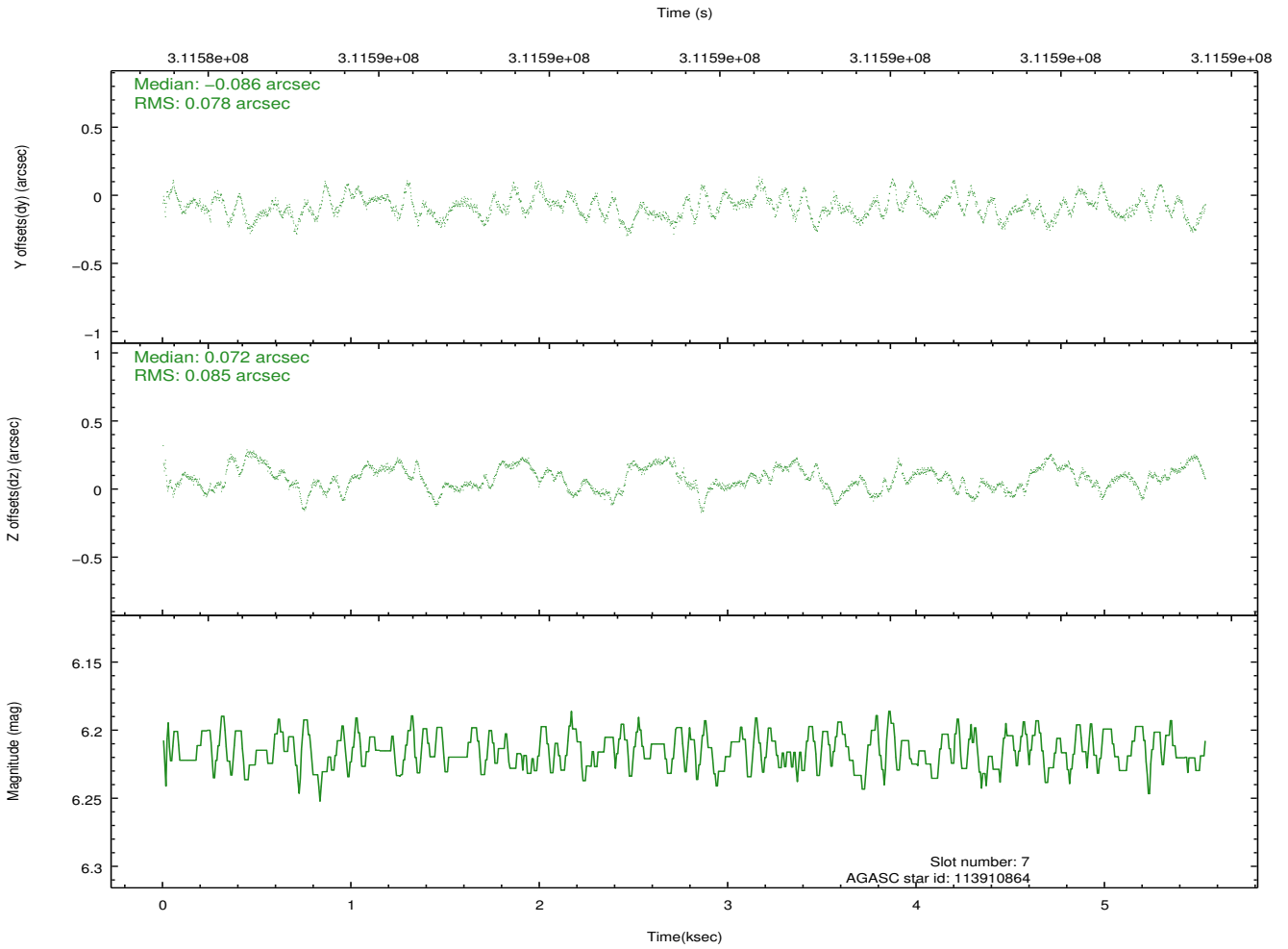
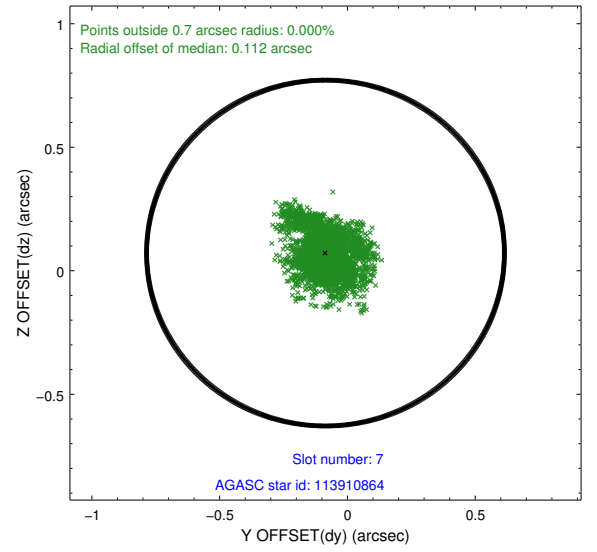
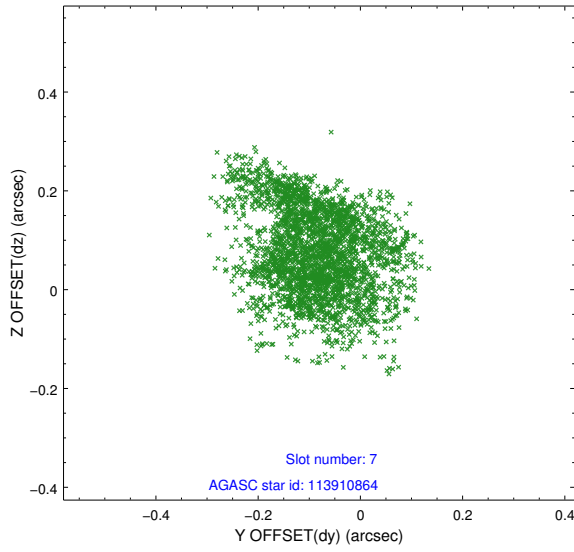
2.4.3 Slot 5



2.4.4 Slot 6

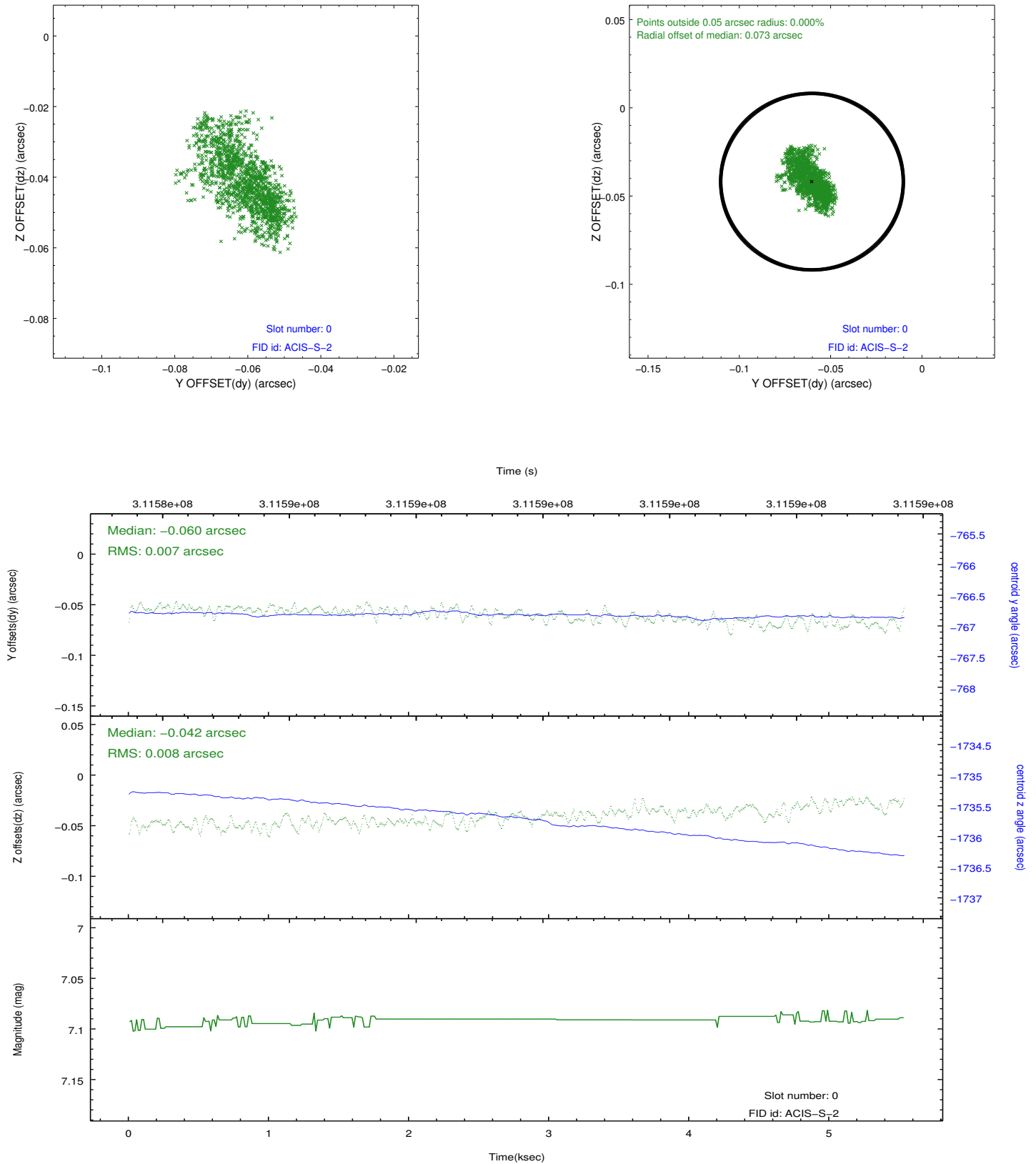


2.4.5 Slot 7

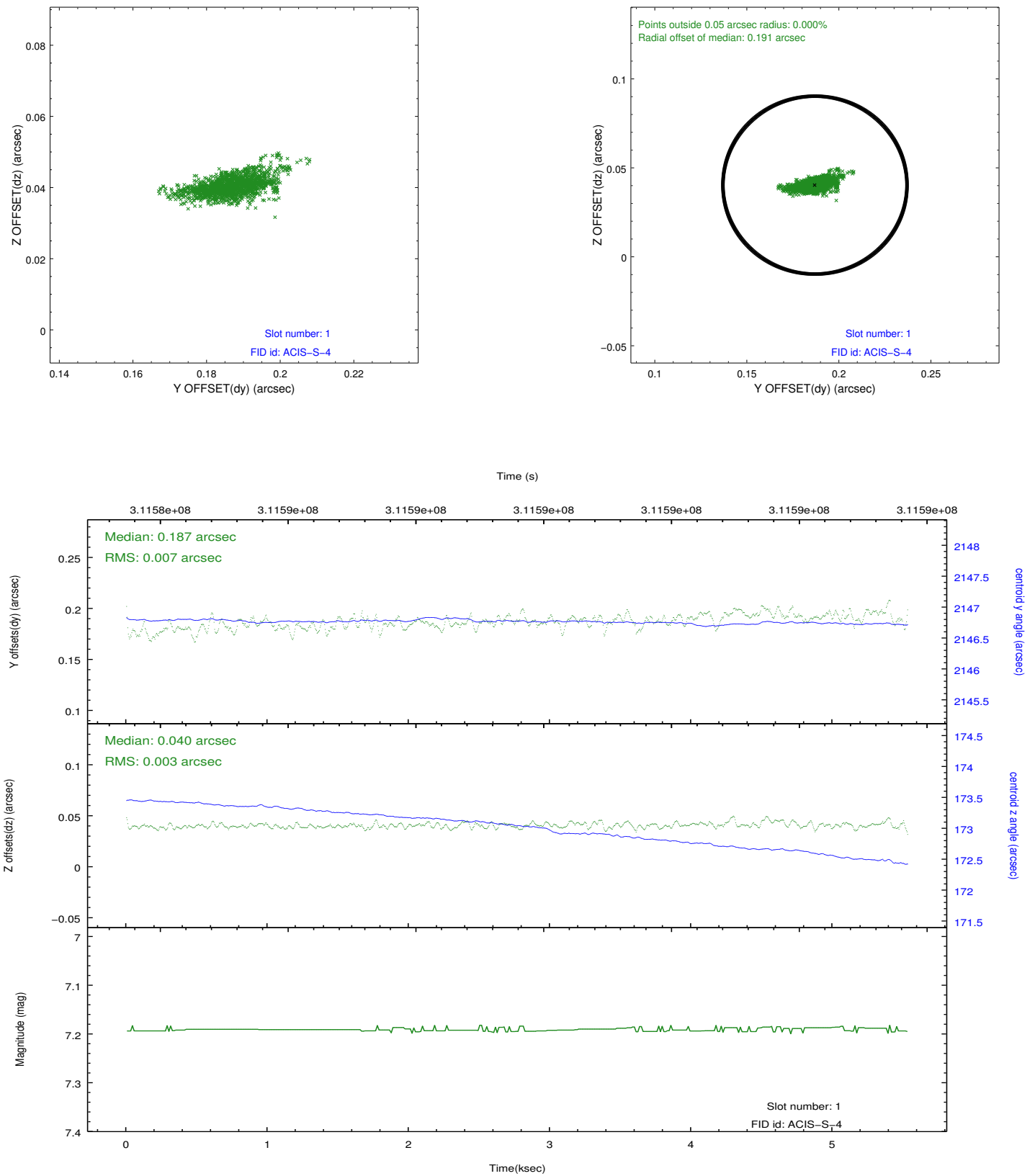


2.5 FID Slots

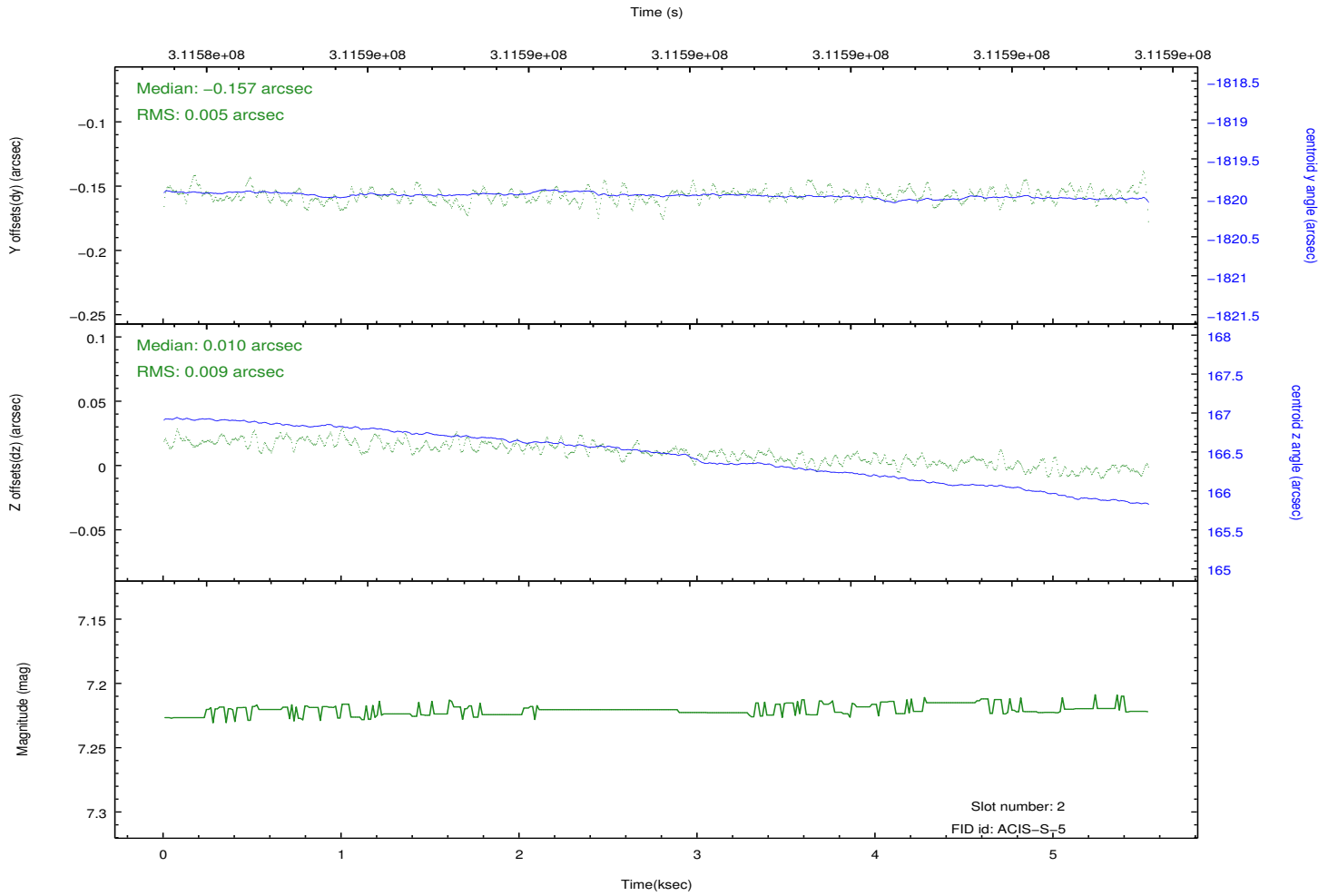
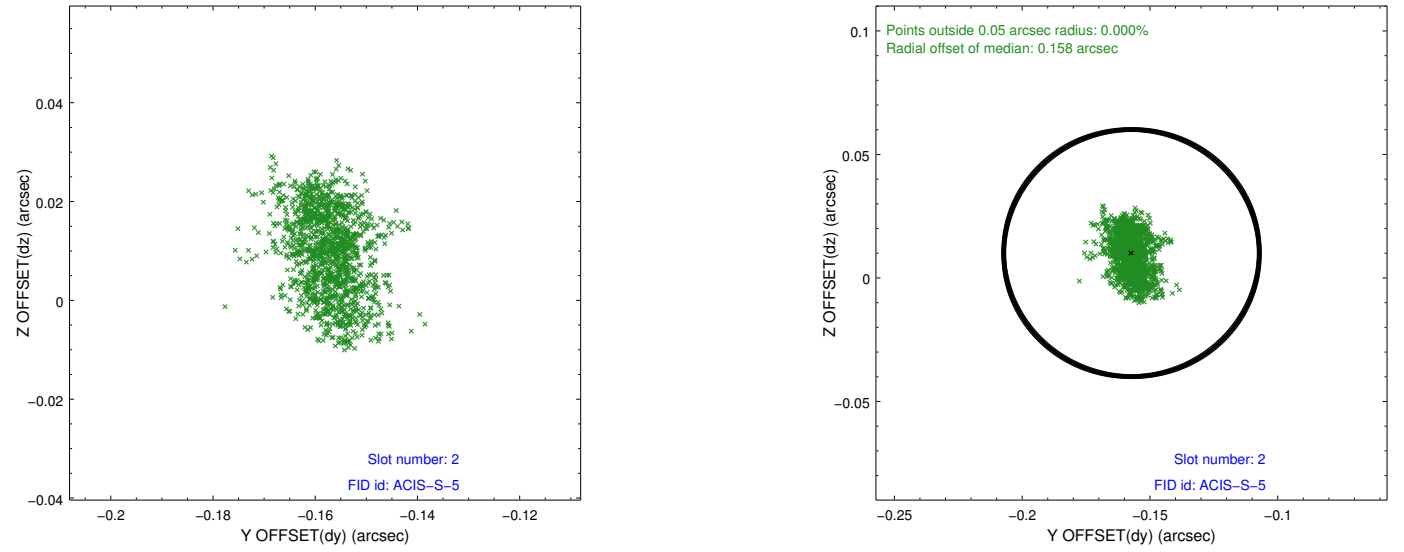
2.5.1 Slot 0



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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.52639997

A.2 Comments

Joint proposal with Spitzer.