

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10116 - L2 Version 2
Chandra X-Ray Center

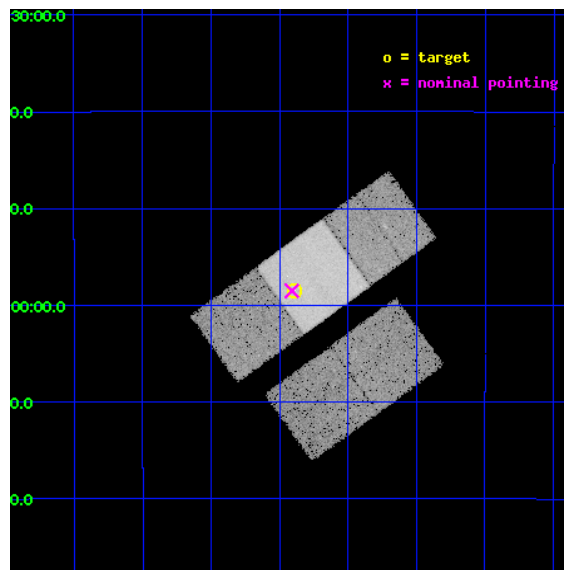
L2 Processing Date : Jun 17 2012

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1 Front

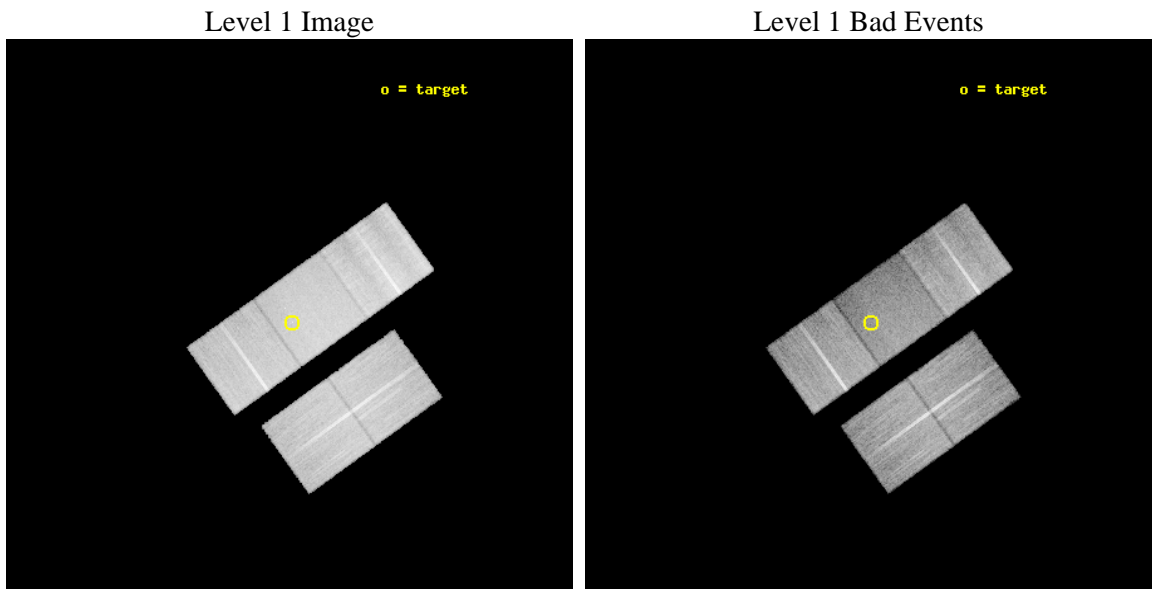
seq_num	501043	Sequence number
obs_id	10116	Observation id
title	Rapid Observations of Short Gamma-Ray Bursts: Accurate Positions Hold the Key to the Progenitor Population	Proposal title
observer	Prof. Edo Berger	Principal investigator
object	GRB 091117	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	30.972417	Observer's specified target RA [deg]
dec_targ	-16.974944	Observer's specified target Dec [deg]
ra_nom	30.977477932439	Nominal RA [deg]
dec_nom	-16.975298726565	Nominal Dec [deg]
roll_nom	324.27031921526	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20165.500155091	Sum of GTIs [s]
livetime	19902.02304994	Livetime [s]
ontime2	20162.359154701	Sum of GTIs [s]
ontime3	20162.359154701	Sum of GTIs [s]
ontime6	20165.500155091	Sum of GTIs [s]
ontime7	20165.500155091	Sum of GTIs [s]
ontime8	20162.359264195	Sum of GTIs [s]
l2events	152820	Number of level 2 events



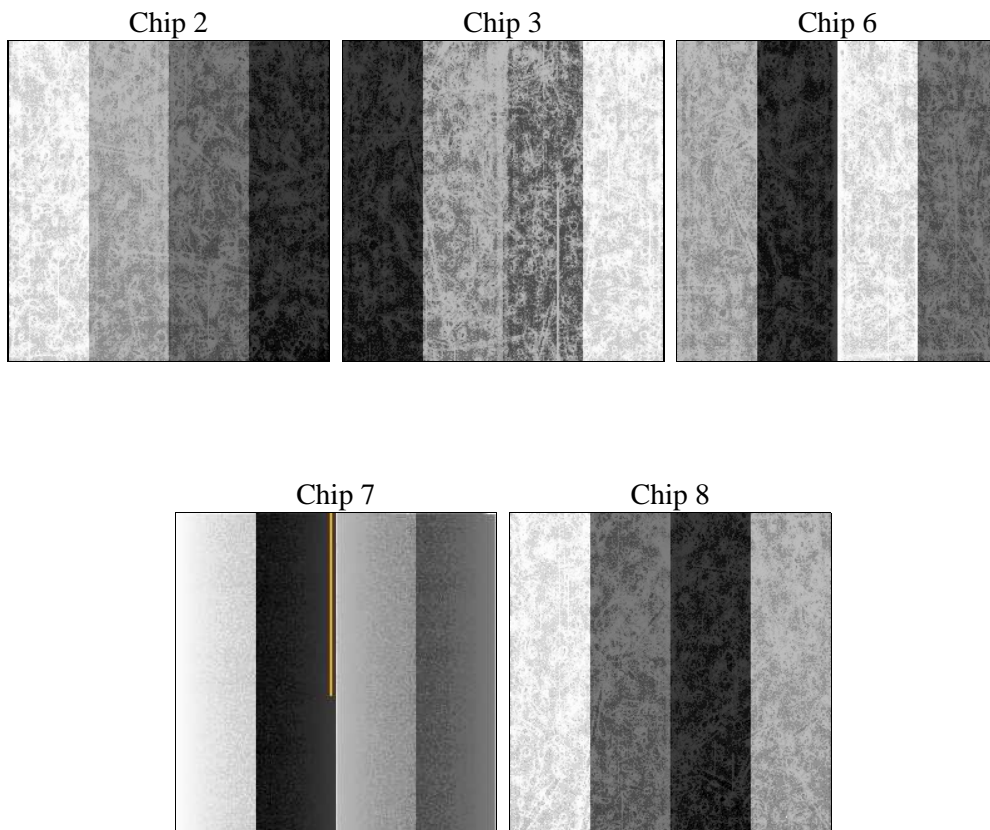
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20165.500155091	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	20162.359154701	Sum of GTIs [s]
date	2012-06-17T05:17:54	Date and time of file creation	ontime3	20162.359154701	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20165.500155091	Sum of GTIs [s]
			ontime7	20165.500155091	Sum of GTIs [s]
			ontime8	20162.359264195	Sum of GTIs [s]
			l1events	1023659	Number of level 1 events

2.1.4 Events

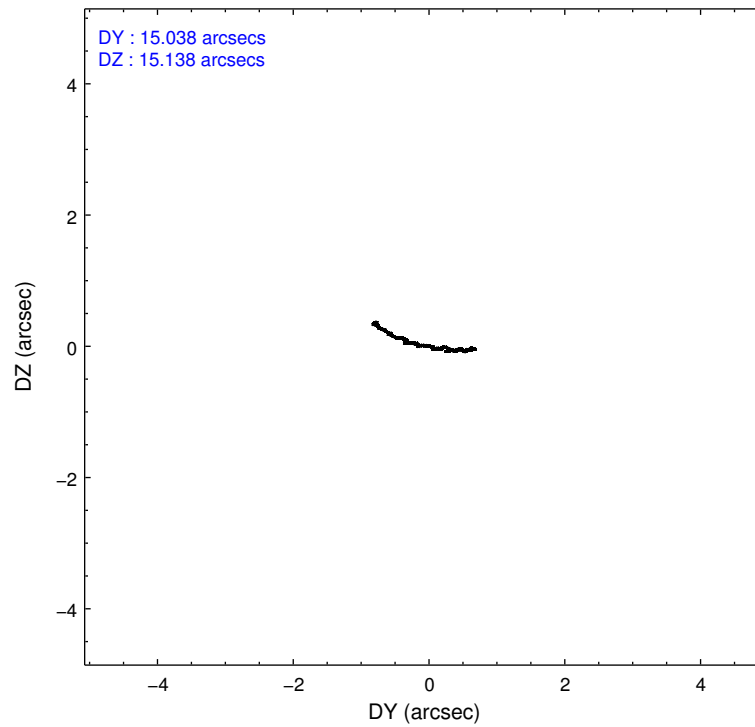
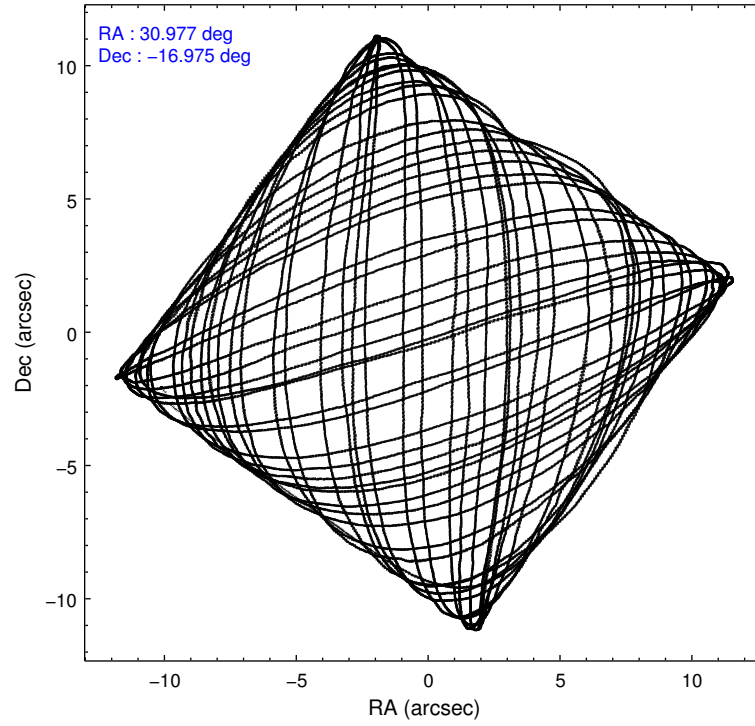
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	191547	183515	190517	215498	242582
rejected events	174309	167080	171797	124616	185123
rejected %	91%	91%	90%	57%	76%

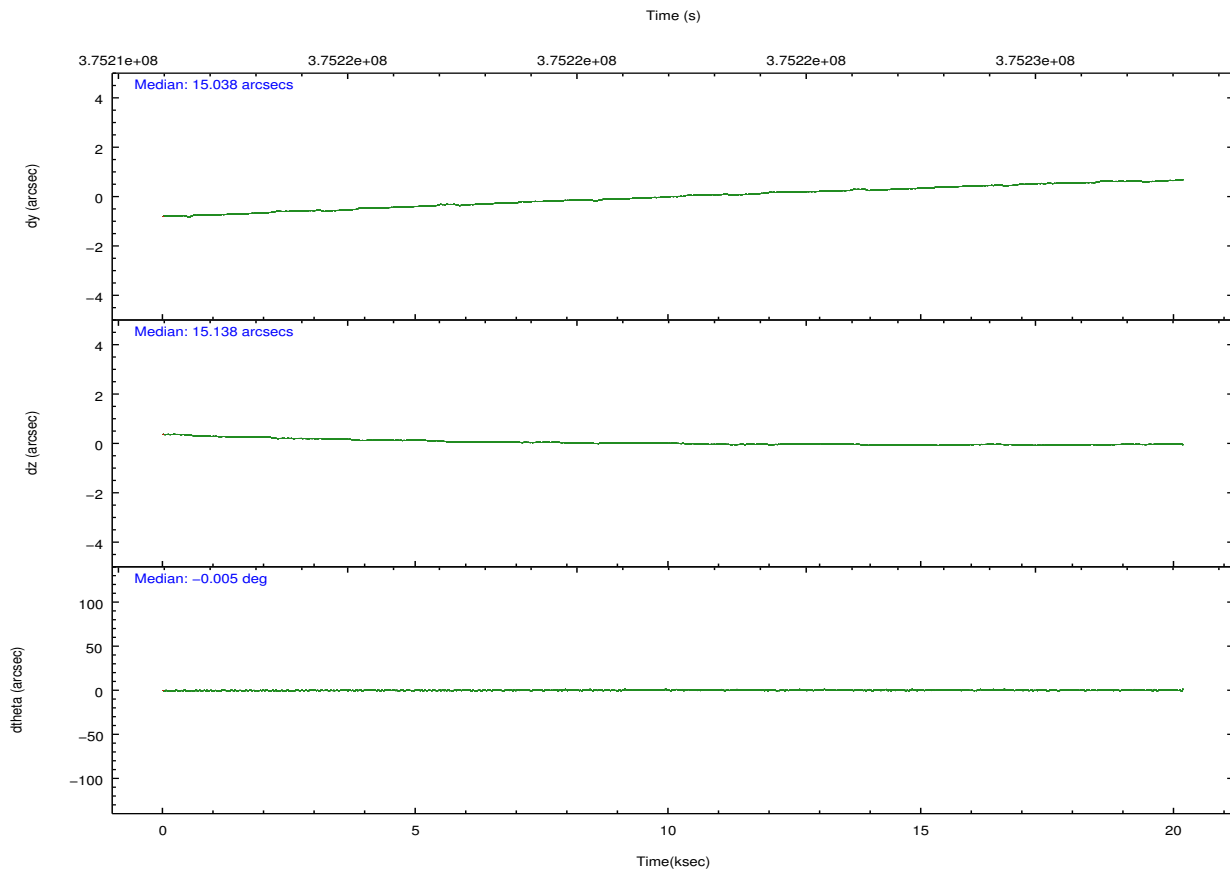
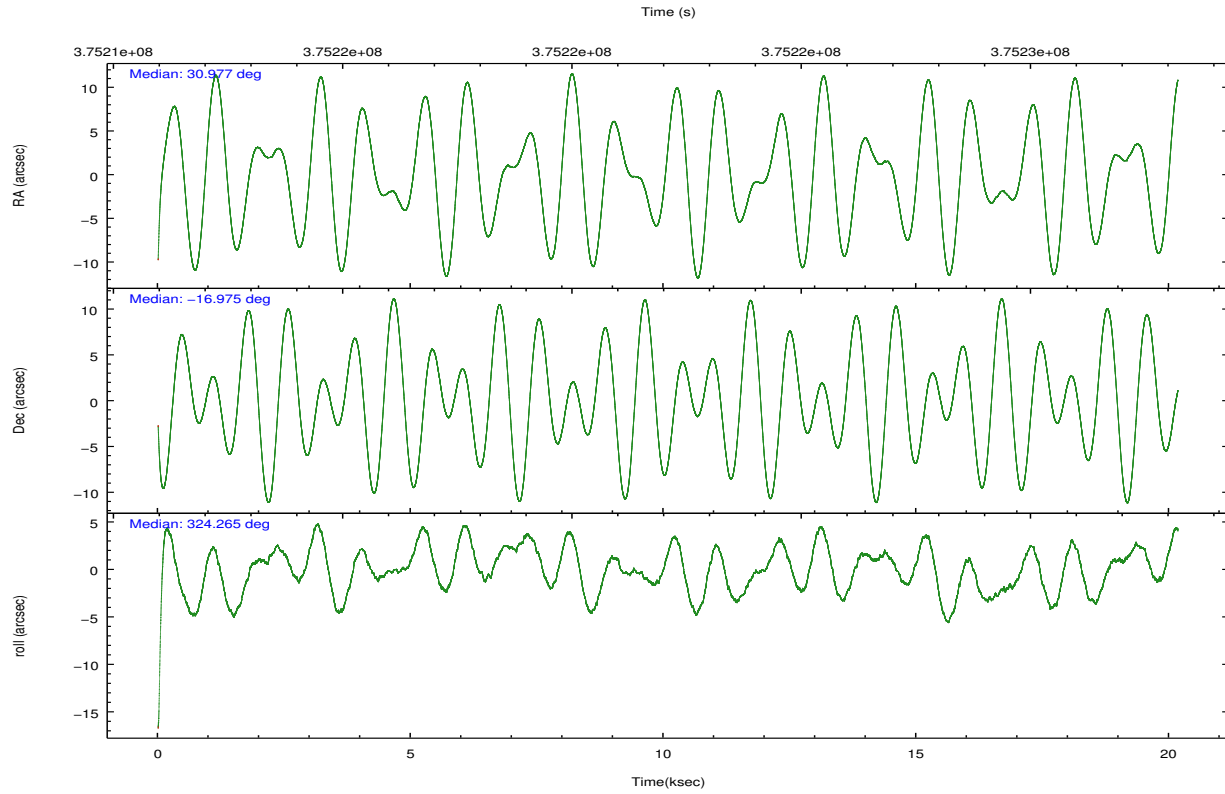
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6588	6149	7066	8866	18239
	3%	3%	3%	4%	7%
grade 1 events	89	108	106	318	211
	0%	0%	0%	0%	0%
grade 2 events	4562	3928	4520	20027	14432
	2%	2%	2%	9%	5%
grade 3 events	1908	1986	2114	8667	6507
	0%	1%	1%	4%	2%
grade 4 events	1964	1943	2055	8570	6060
	1%	1%	1%	3%	2%
grade 5 events	6520	7844	8006	22567	11440
	3%	4%	4%	10%	4%
grade 6 events	3437	3586	4317	51414	16530
	1%	1%	2%	23%	6%
grade 7 events	166479	157971	162333	95069	169163
	86%	86%	85%	44%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	30.948995	30.97747793243945	CCD I2 on	Y	Y
[deg] Pointing Dec	-16.972929	-16.97529872656523	CCD I3 on	O1	Y
[deg] Pointing Roll	324.105382	324.270319215263	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	Y	Y
[s] Observation start time (MET)	375212187.184000	375210463.02347	CCD S5 on	N	N
Observation start date	2009-11-21T17:35:21	2009-11-21T17:07:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	375232187.184000	375233116.54961	On-chip summing requested	N	N
Observation end date	2009-11-21T23:08:41	2009-11-21T23:25:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



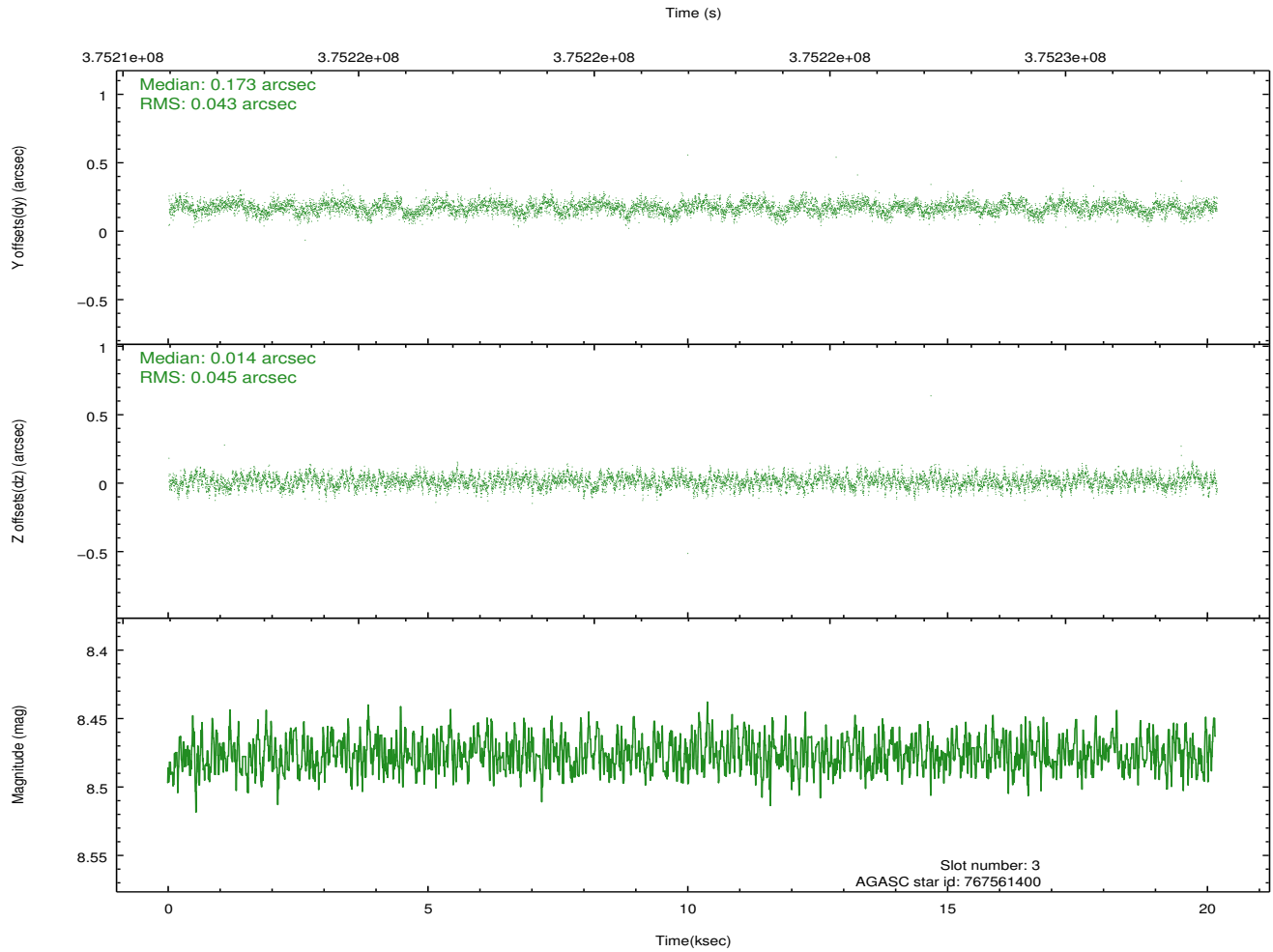
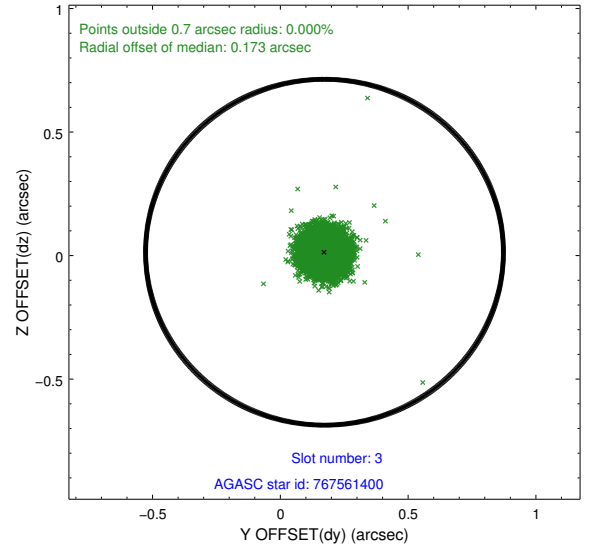
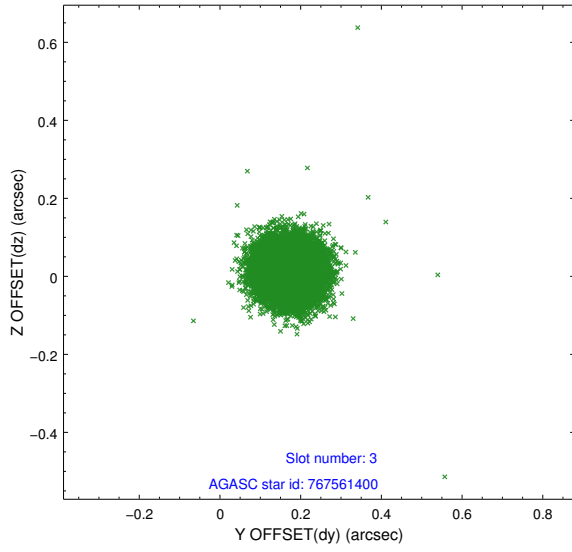


Slot Statistics

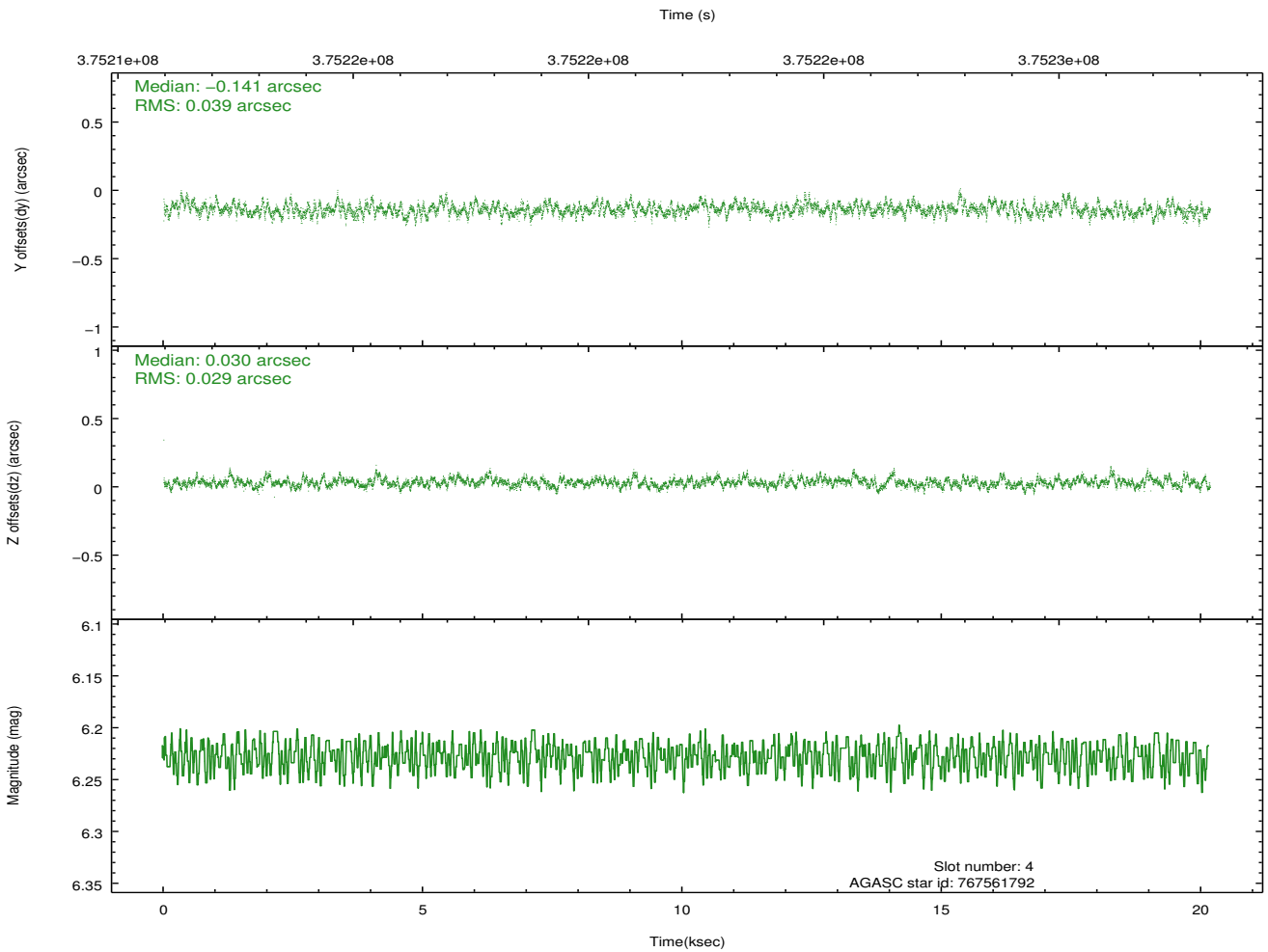
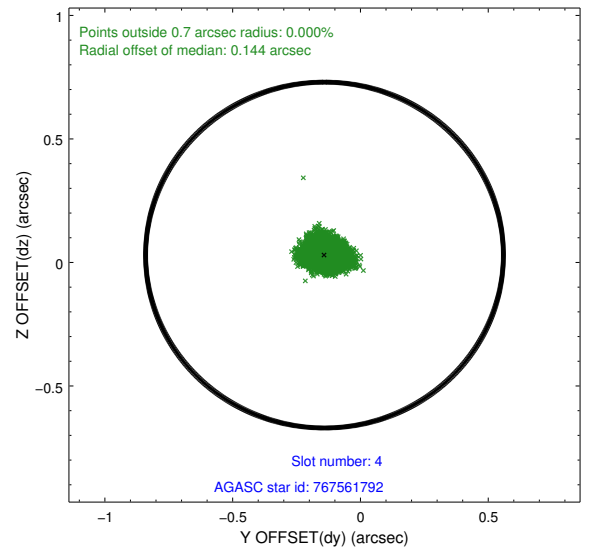
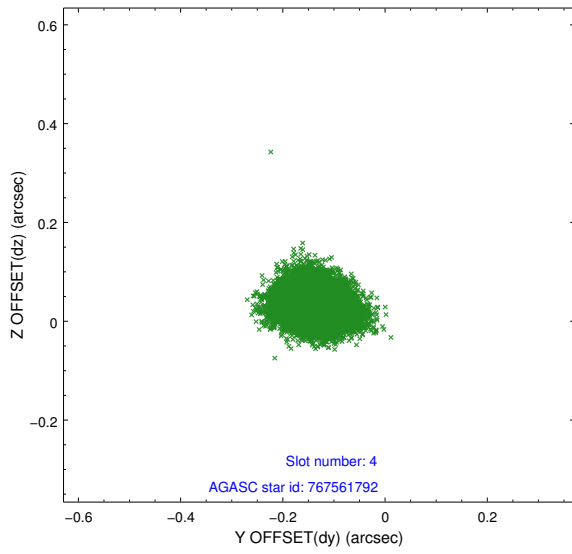
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	4920	-0.094	-0.026	0.012	0.019	0.000000	0.000000	-768.05	-1736.60
1	FID	ACIS-S-4	6.97	4921	0.205	0.052	0.010	0.027	0.000000	0.000000	2145.41	171.80
2	FID	ACIS-S-5	7.00	4921	-0.144	-0.017	0.014	0.035	0.000000	0.000000	-1820.73	165.57
3	GUIDE	767561400	8.48	9838	0.173	0.014	0.066	0.104	30.855936	-17.032965	-131.92	-362.15
4	GUIDE	767561792	6.23	9841	-0.141	0.030	0.051	0.085	31.194494	-17.287520	1348.35	-422.73
5	GUIDE	767565112	9.87	9784	-0.027	0.046	0.143	0.231	30.443269	-16.946777	-1464.08	-946.56
6	GUIDE	767569712	8.38	9836	-0.012	-0.106	0.067	0.107	31.174786	-16.385838	-606.89	2169.13
7	GUIDE	767570264	7.32	9837	0.005	0.018	0.068	0.111	30.485892	-16.568822	-2146.17	240.46

2.4 Star Slots

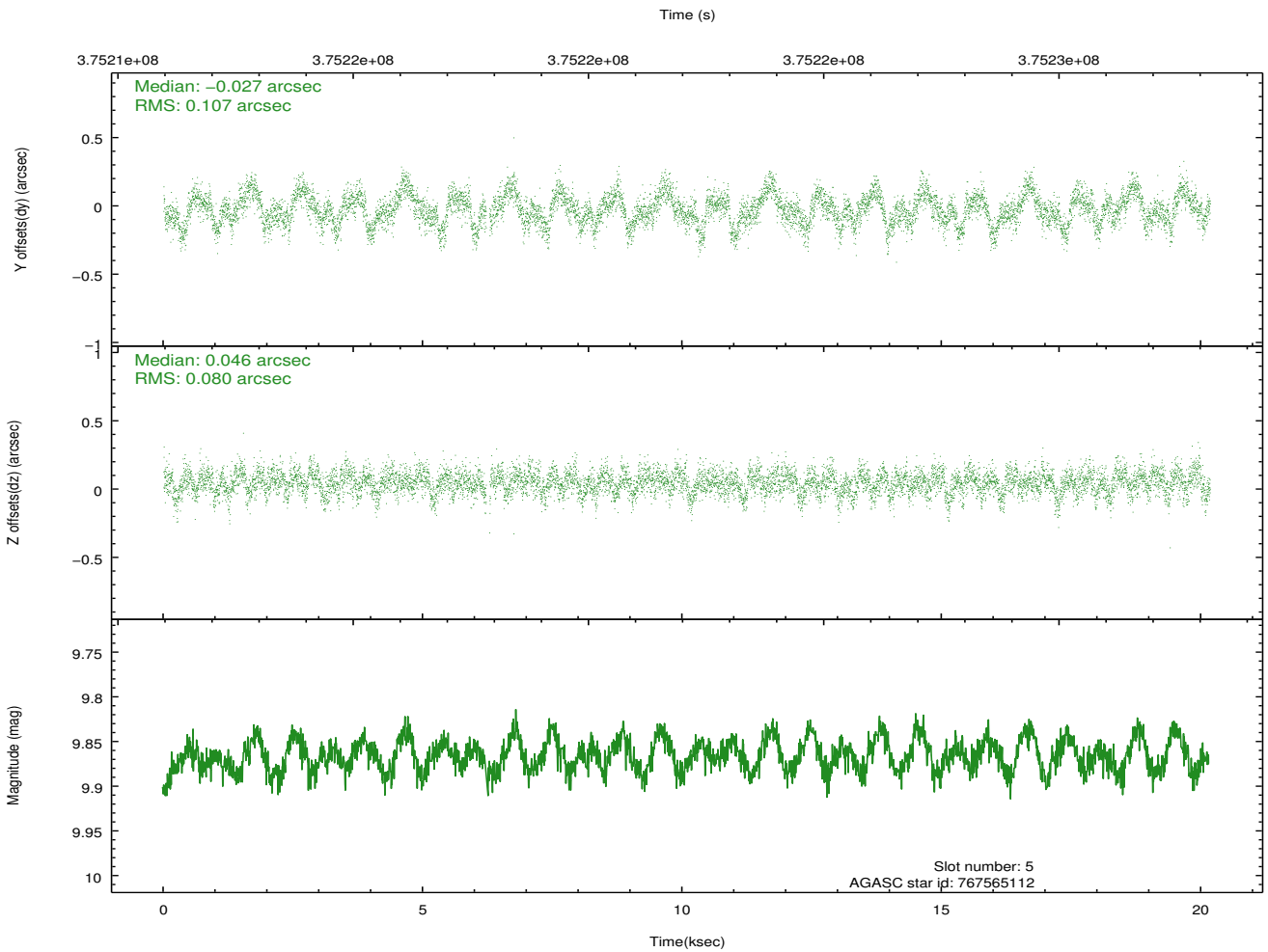
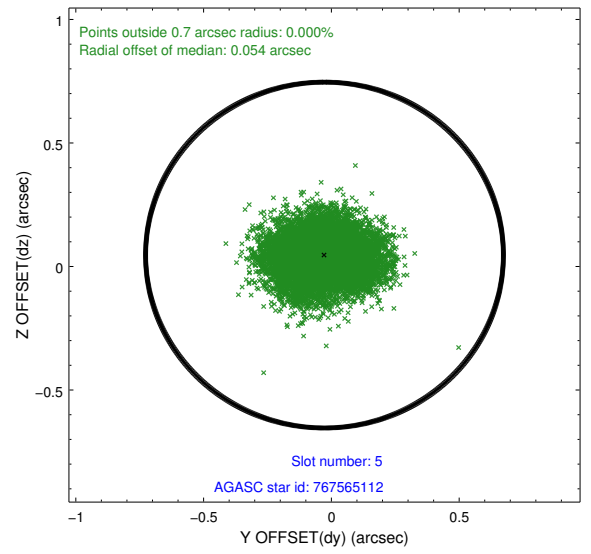
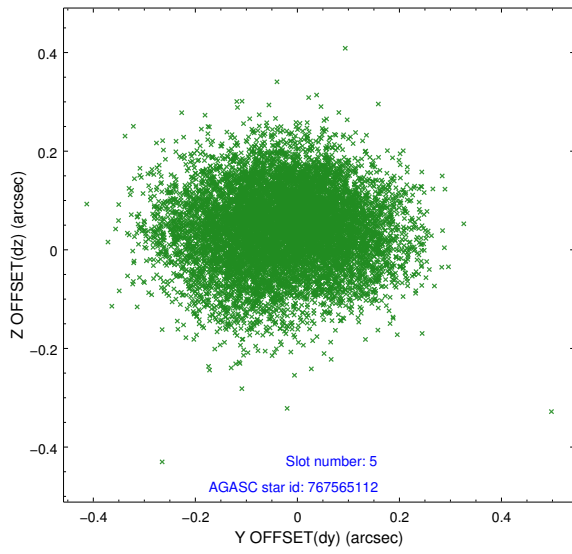
2.4.1 Slot 3



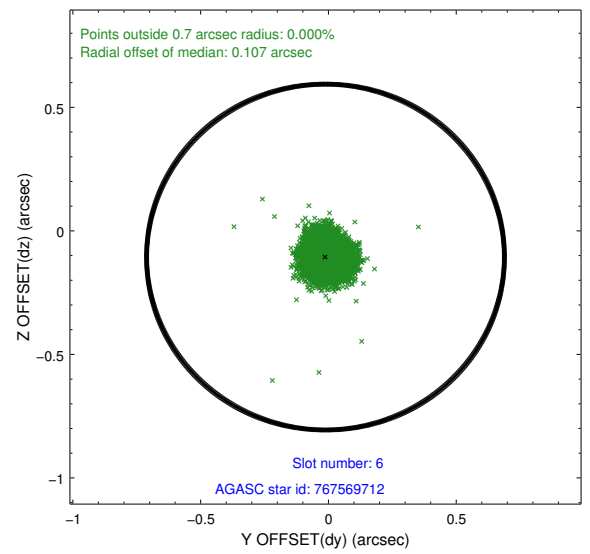
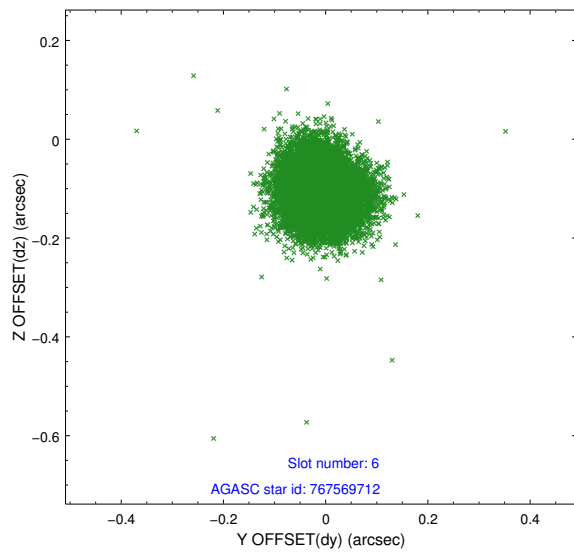
2.4.2 Slot 4



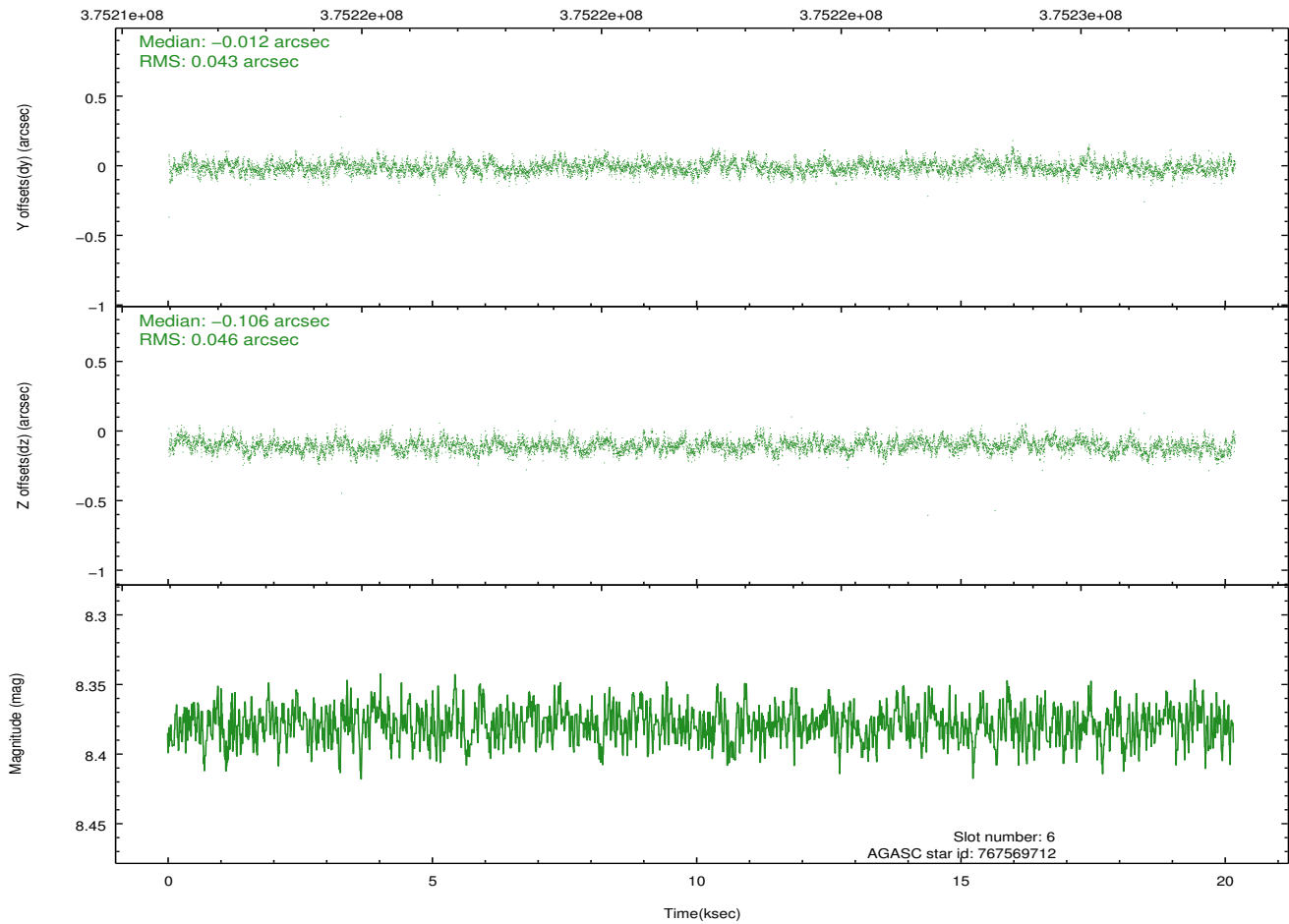
2.4.3 Slot 5



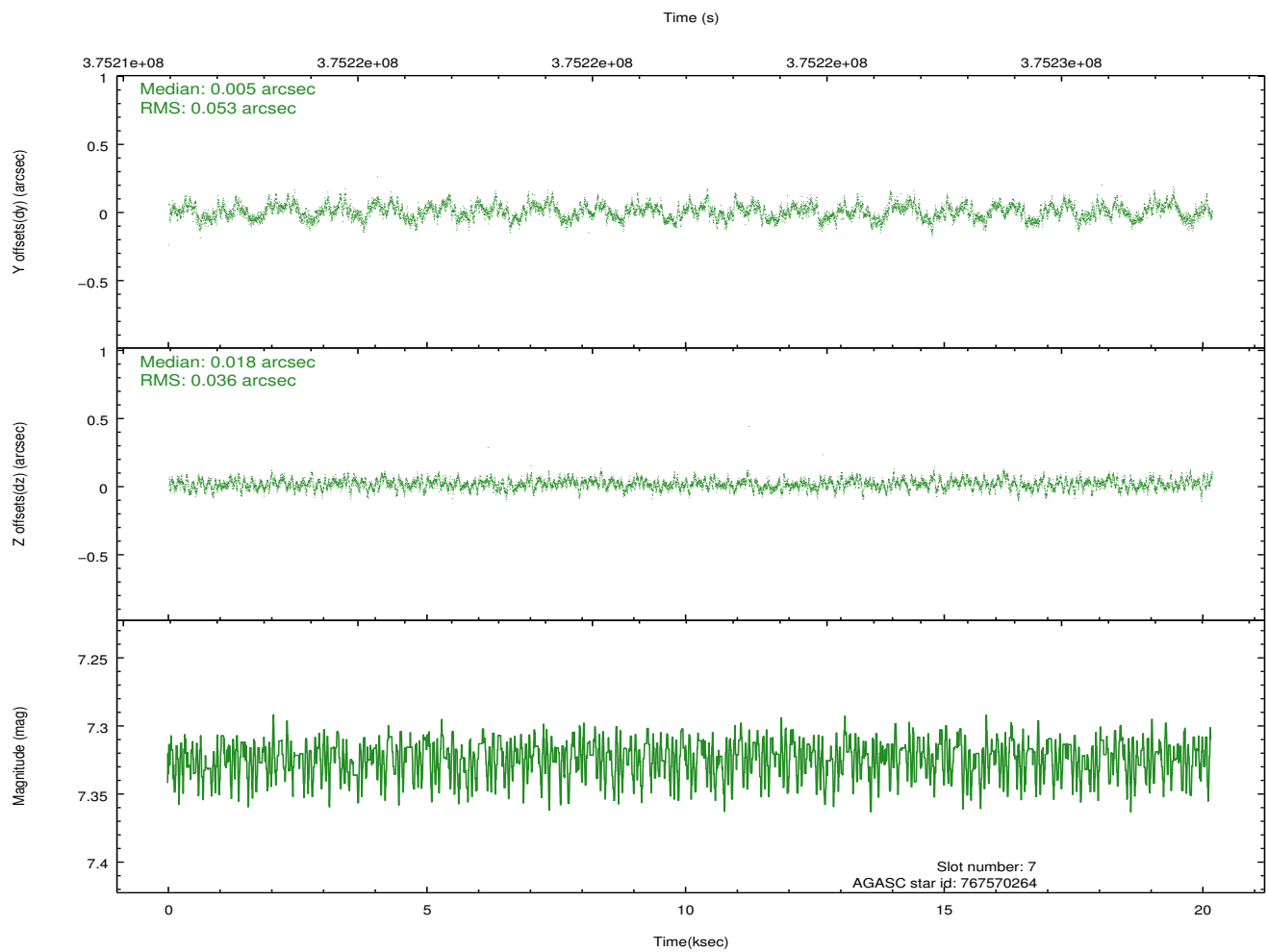
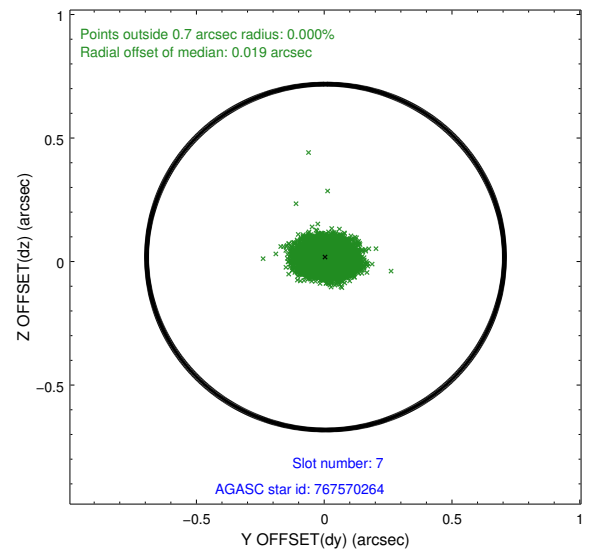
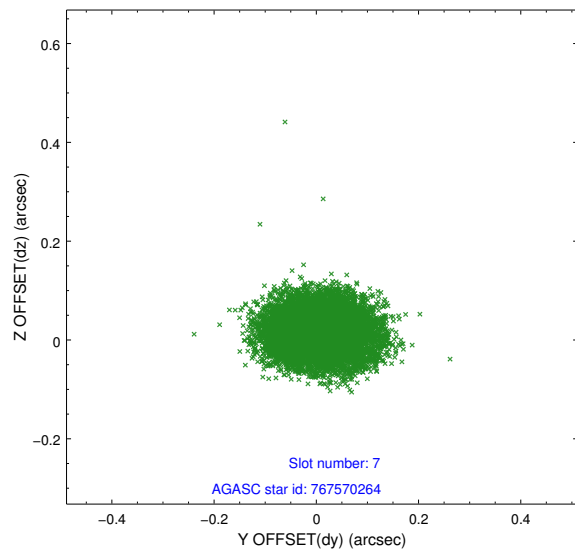
2.4.4 Slot 6



Time (s)

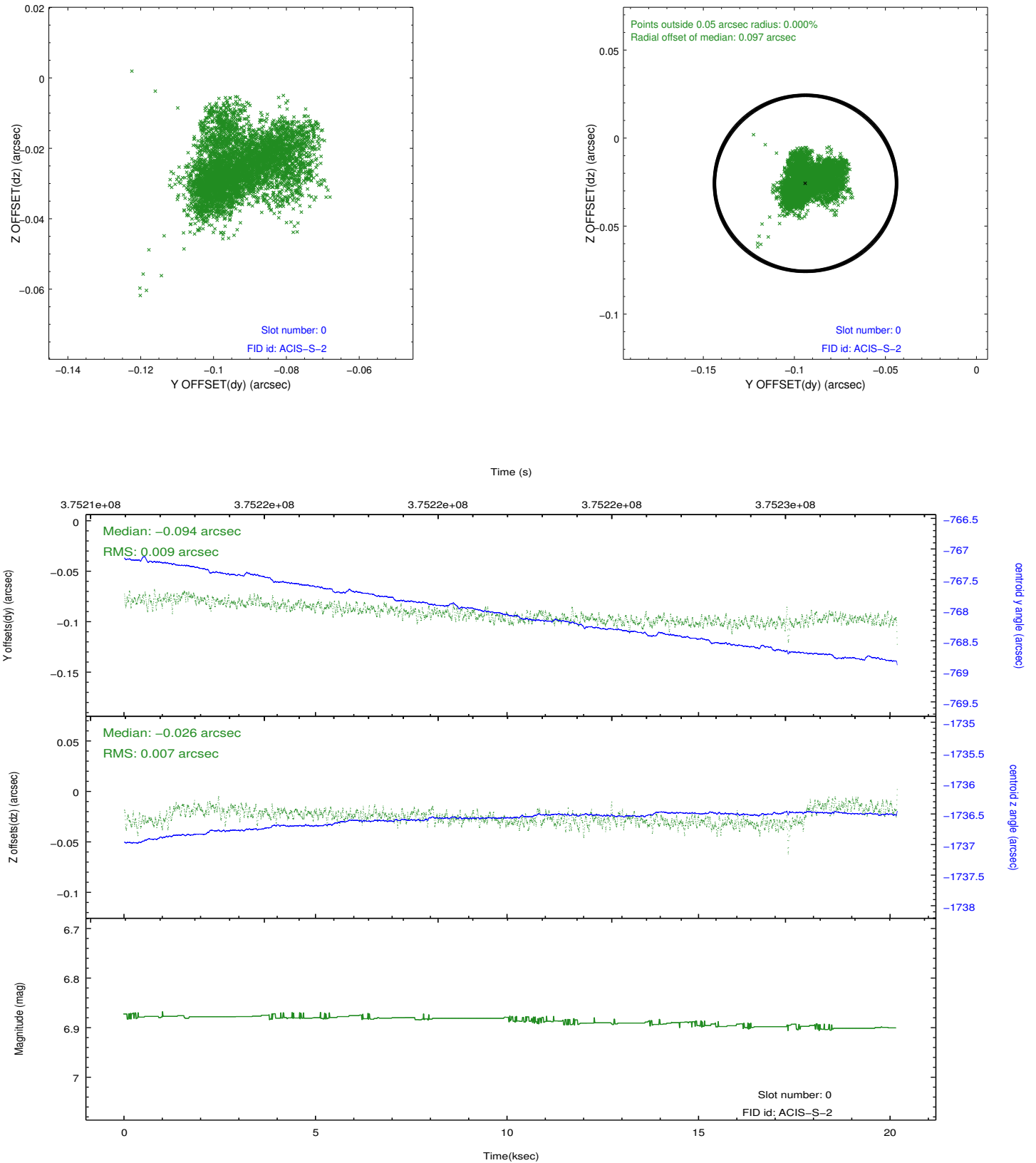


2.4.5 Slot 7

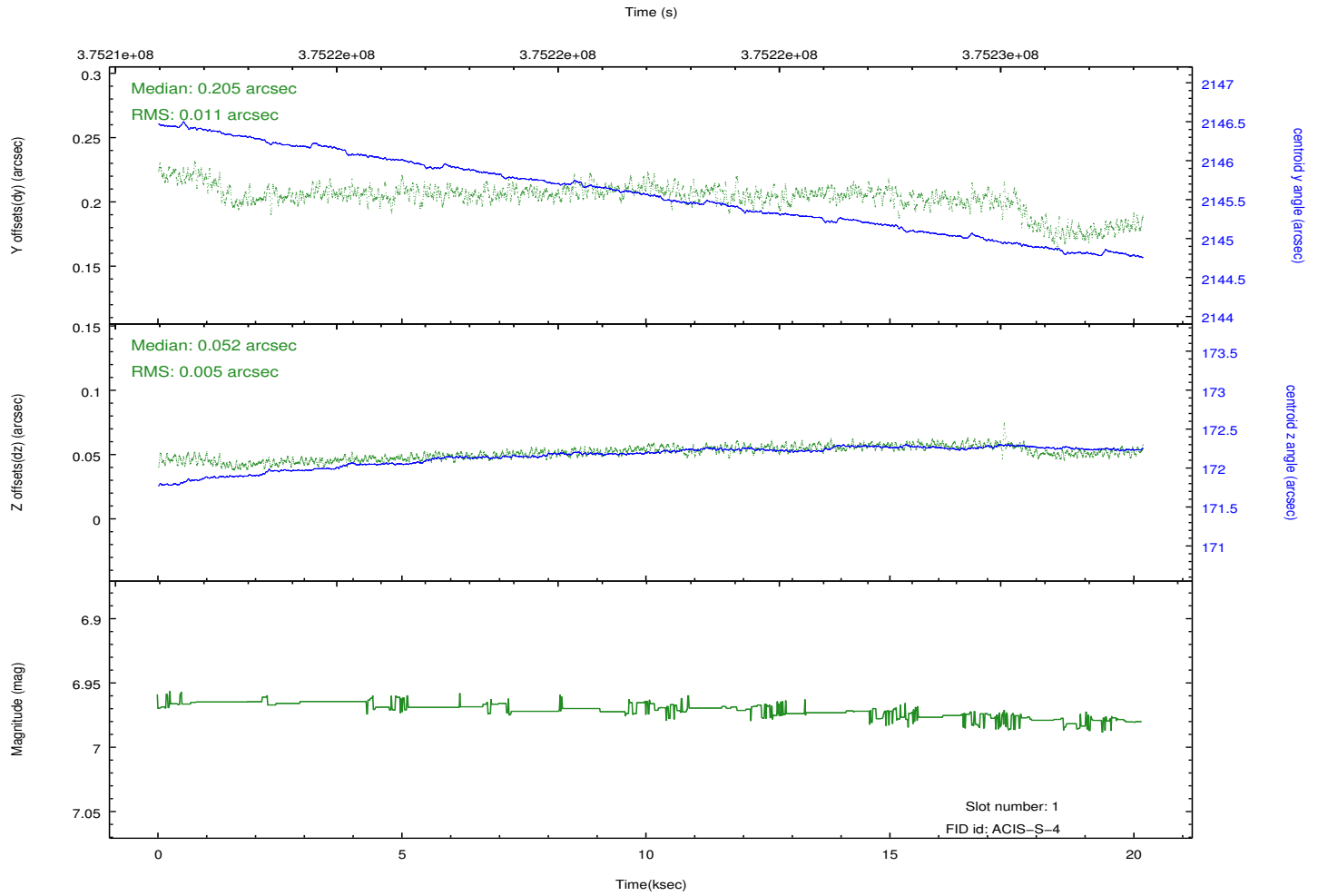
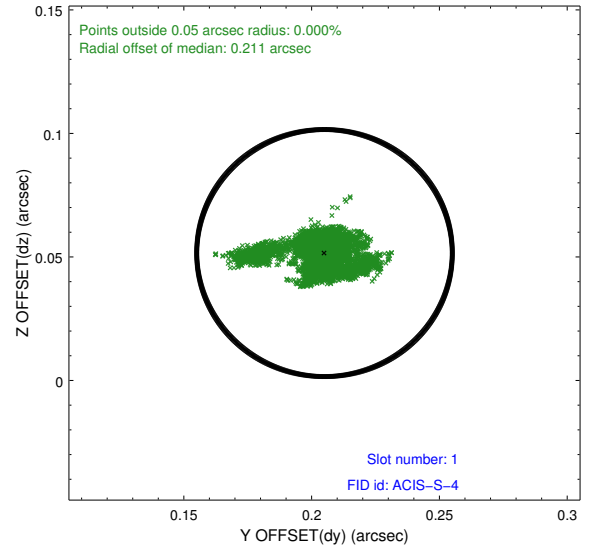
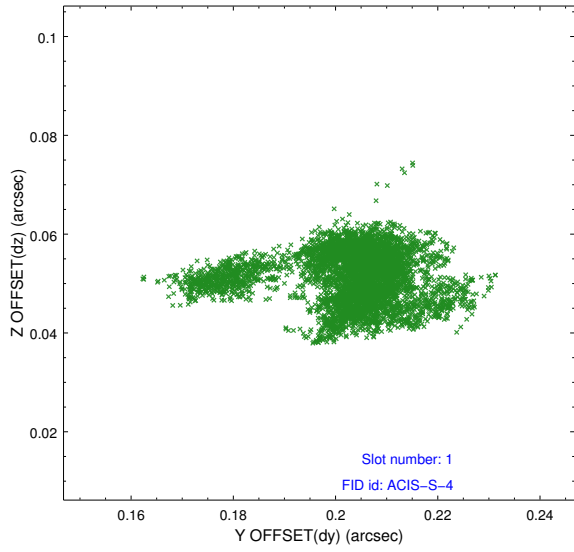


2.5 FID Slots

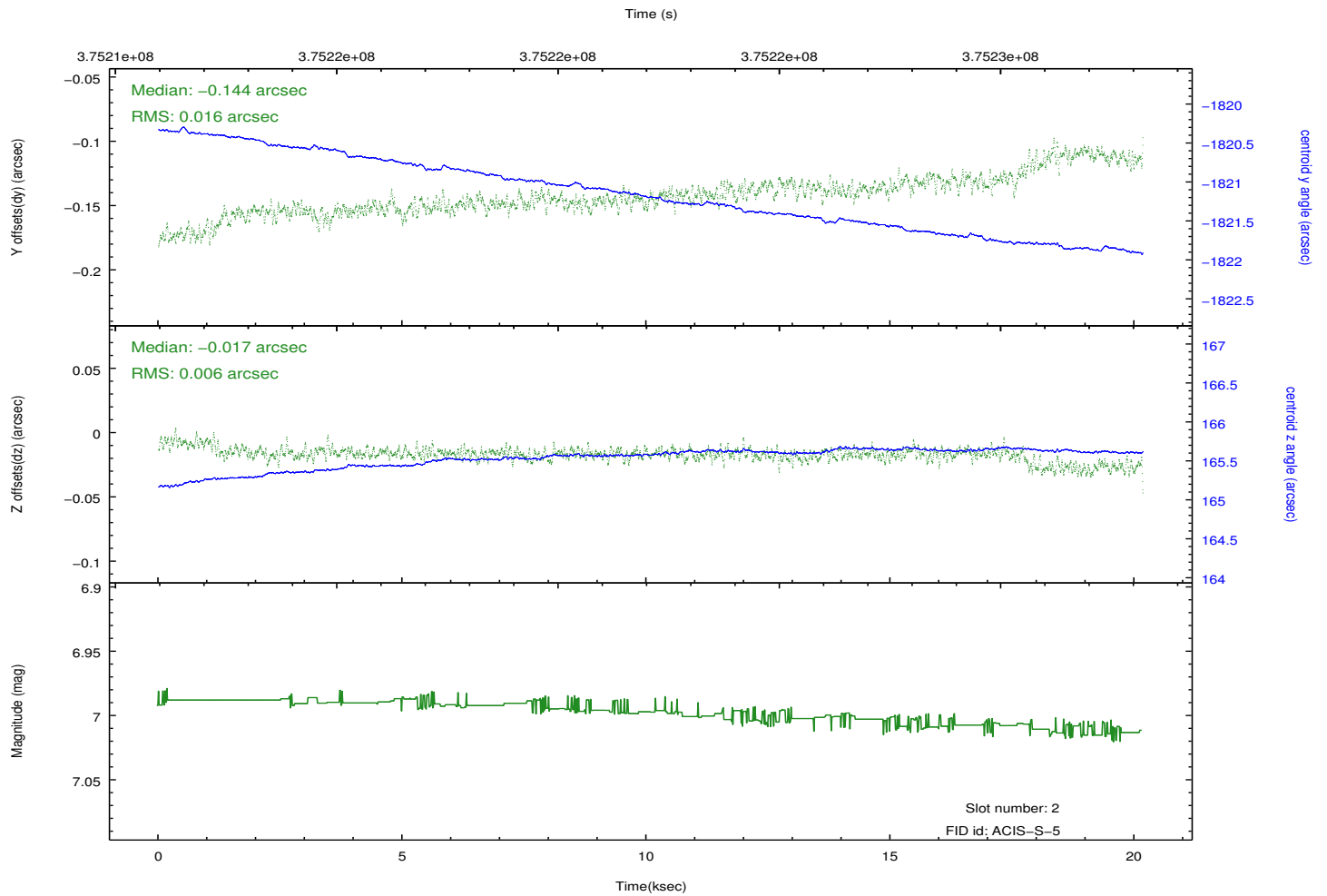
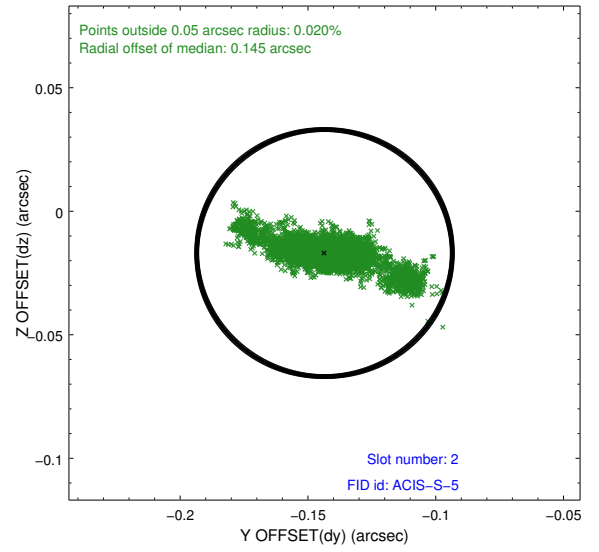
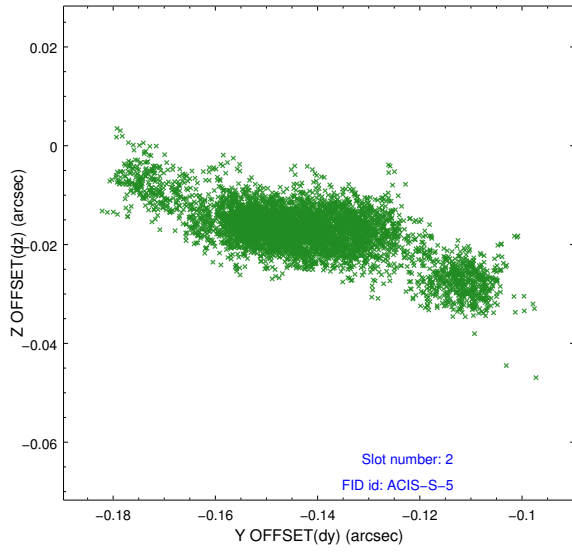
2.5.1 Slot 0



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)	2012.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.165500155091

A.2 Comments