

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18176 - L2 Version 2
Chandra X-Ray Center

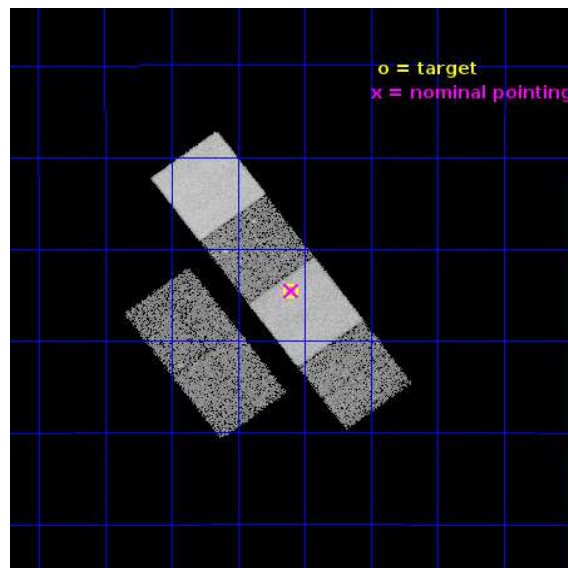
L2 Processing Date : Feb 23 2016

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1 Front

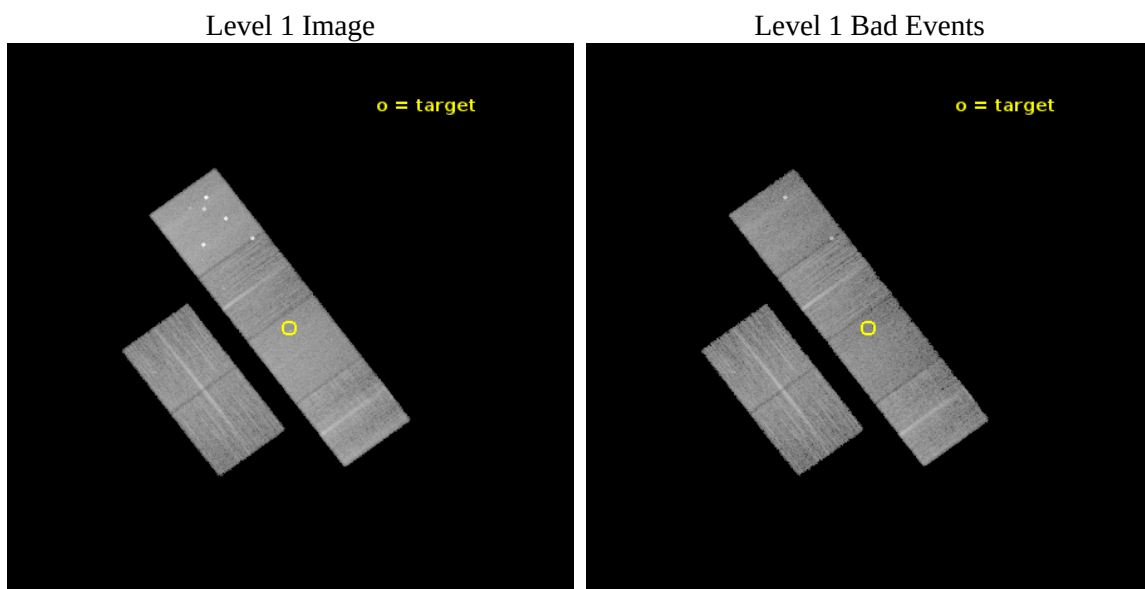
seq_num	703241	Sequence number
obs_id	18176	Observation id
title	Chandra Legacy Survey of Merger Driven AGN Activation in Nearby X-ray Selected AGN	Proposal title
observer	Dr Michael Koss	Principal investigator
object	ESO 575-IG 016 NED02	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.151667	Observer's specified target RA [deg]
dec_targ	-21.910806	Observer's specified target Dec [deg]
ra_nom	193.14968984028	Nominal RA [deg]
dec_nom	-21.909202519135	Nominal Dec [deg]
roll_nom	53.273362797474	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14940.800222635	Sum of GTIs [s]
livetime	14751.610813946	Livetime [s]
ontime2	14937.559132218	Sum of GTIs [s]
ontime3	14940.728969336	Sum of GTIs [s]
ontime5	14940.800222635	Sum of GTIs [s]
ontime6	14940.770009398	Sum of GTIs [s]
ontime7	14940.800222635	Sum of GTIs [s]
ontime8	14940.687929392	Sum of GTIs [s]
l2events	152444	Number of level 2 events



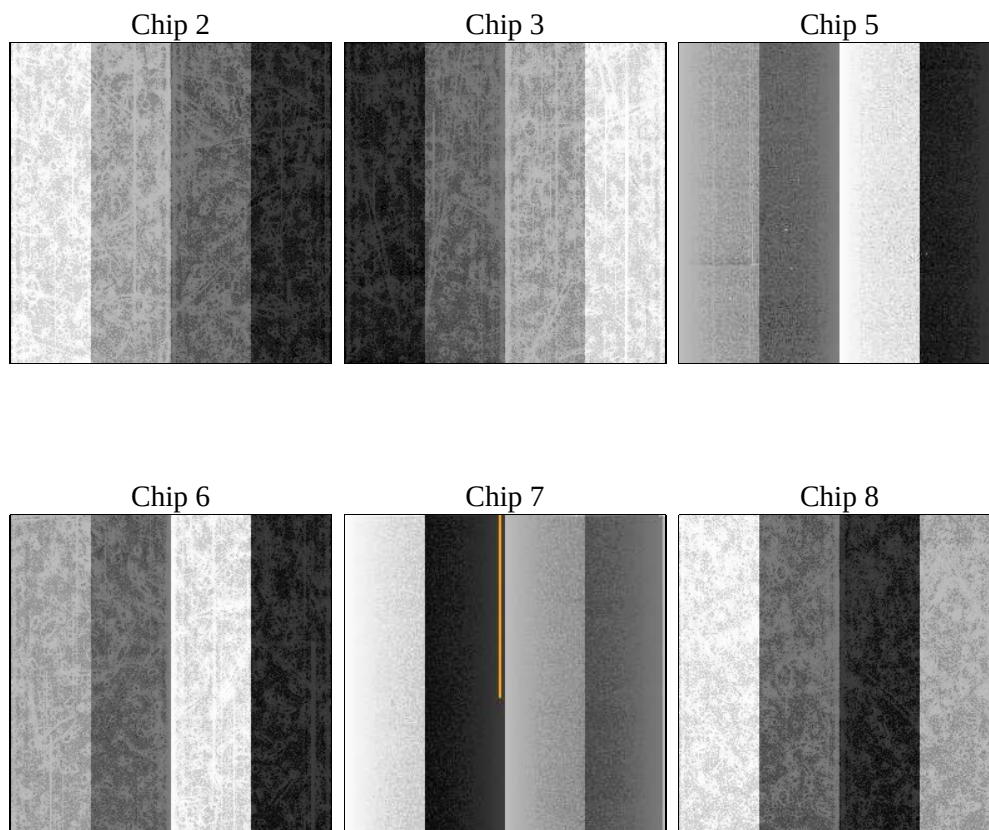
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	14940.800222635	Sum of GTIs [s]
caldsver	4.7.0	 	ontime2	14937.559132218	Sum of GTIs [s]
date	2016-02-23T20:35:38	Date and time of file creation	ontime3	14940.728969336	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	14940.800222635	Sum of GTIs [s]
			ontime6	14940.770009398	Sum of GTIs [s]
			ontime7	14940.800222635	Sum of GTIs [s]
			ontime8	14940.687929392	Sum of GTIs [s]
			l1events	695298	Number of level 1 events

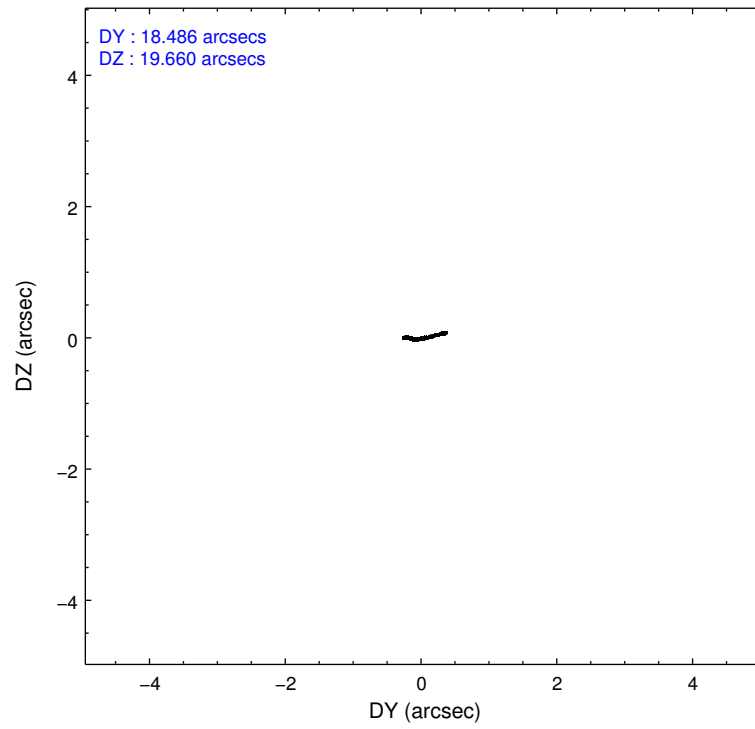
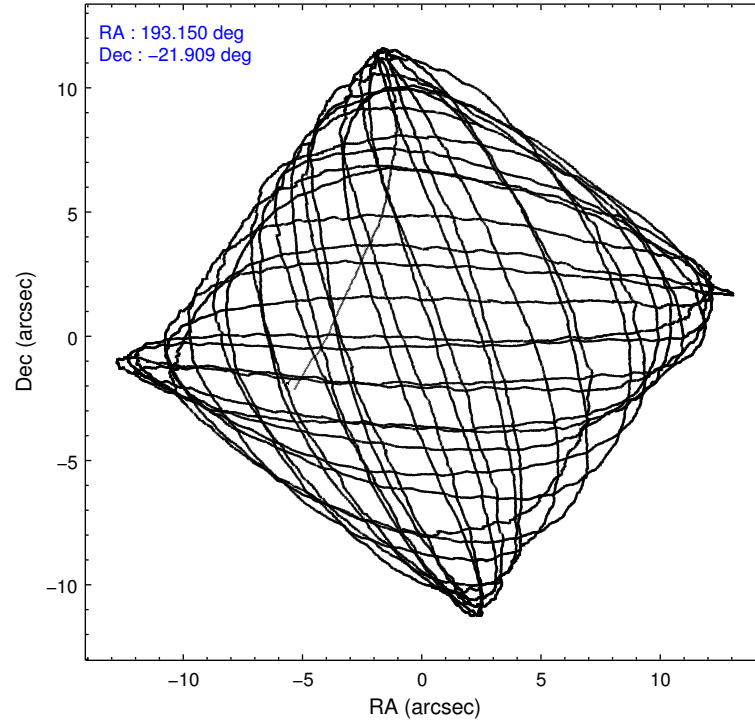
2.1.4 Events

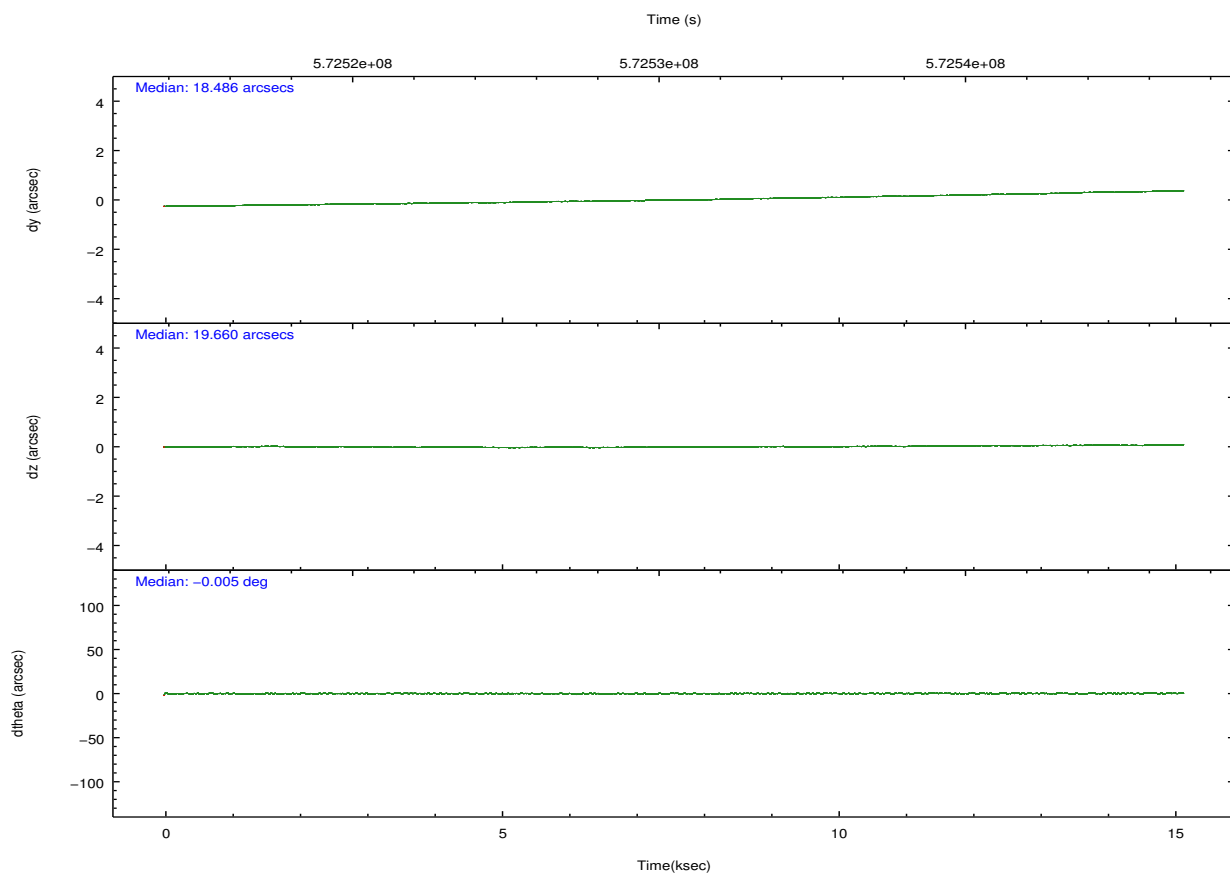
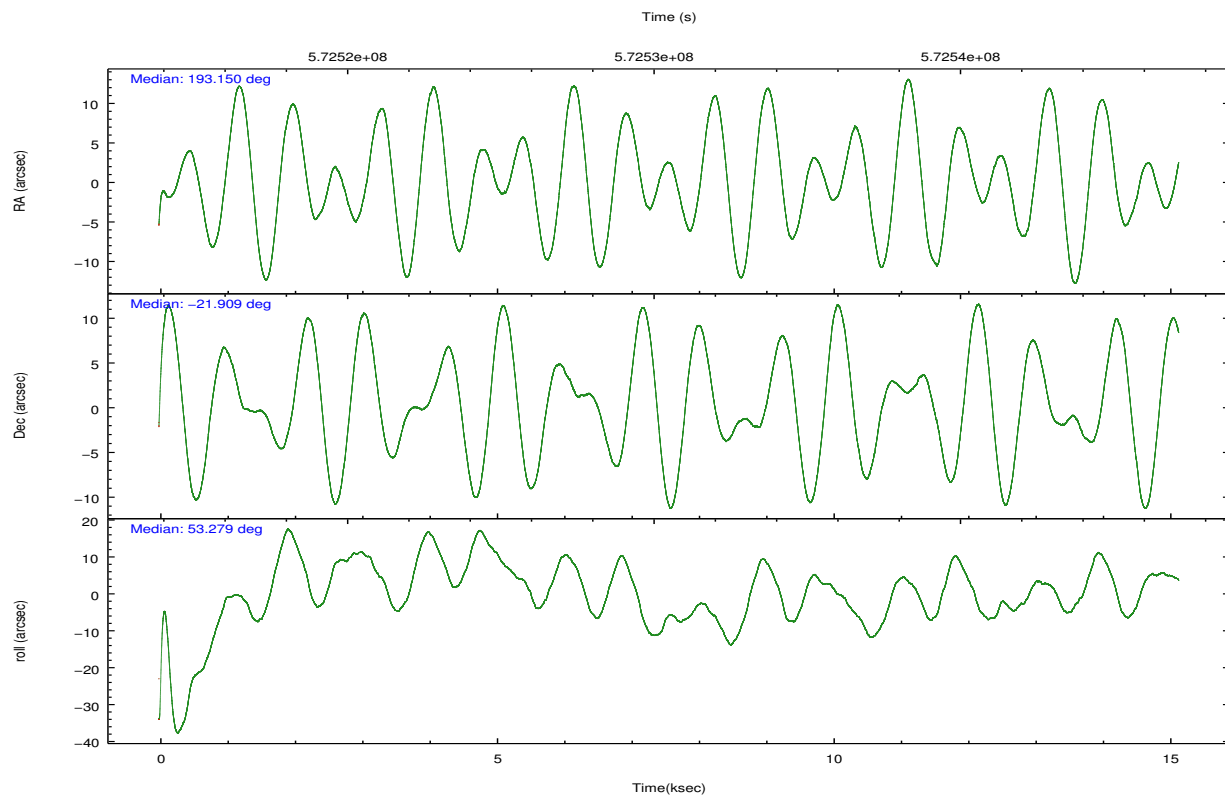
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	99716	90042	165668	98992	120865	120015	grade 0 events	3425	3276	15807	3592	4192	8290
rejected events	90144	80650	80394	88095	69181	90066		3%	3%	9%	3%	3%	6%
rejected %	90%	89%	48%	88%	57%	75%	grade 1 events	59	45	1634	40	144	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	2249	1988	24863	2615	10943	7338
								2%	2%	15%	2%	9%	6%
							grade 3 events	980	1031	2398	1013	3856	3231
								0%	1%	1%	1%	3%	2%
							grade 4 events	916	1052	2344	992	3799	2973
								0%	1%	1%	1%	3%	2%
							grade 5 events	3855	4401	9915	4202	11370	6369
								3%	4%	5%	4%	9%	5%
							grade 6 events	2003	2046	39873	2687	28902	8119
								2%	2%	24%	2%	23%	6%
							grade 7 events	86229	76203	68834	83851	57659	83610
								86%	84%	41%	84%	47%	69%

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	193.146636	193.1496898402769	CCD I2 on	O2	Y
[deg] Pointing Dec	-21.936534	-21.90920251913532	CCD I3 on	O3	Y
[deg] Pointing Roll	53.115629	53.27336279747435	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O5	Y
[s] Observation start time (MET)	572522804.184000	572521559.84705	CCD S5 on	N	N
Observation start date	2016-02-22T10:05:36	2016-02-22T09:45:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	572537804.184000	572538726.54802	On-chip summing requested	N	N
Observation end date	2016-02-22T14:15:36	2016-02-22T14:32:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



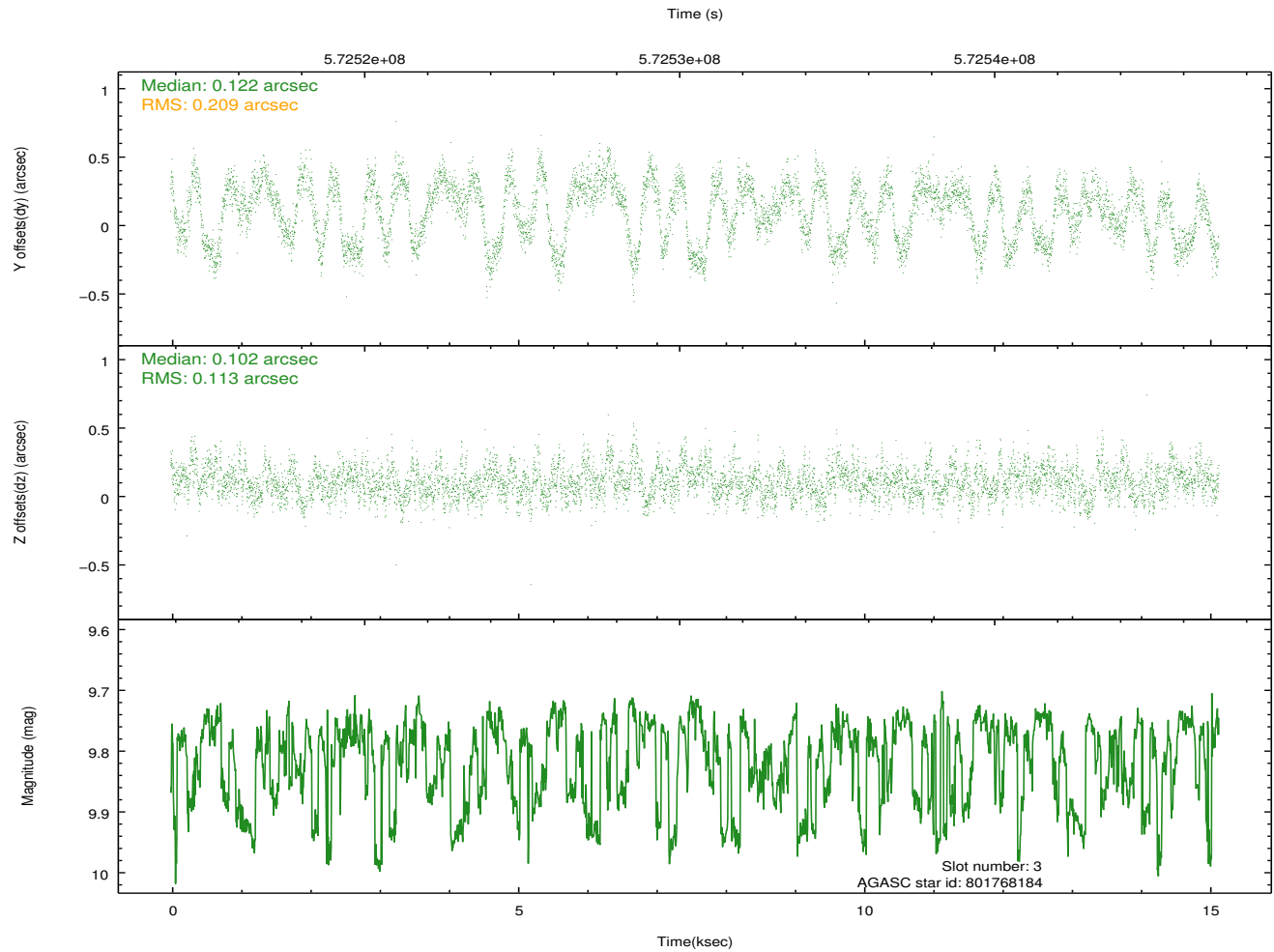
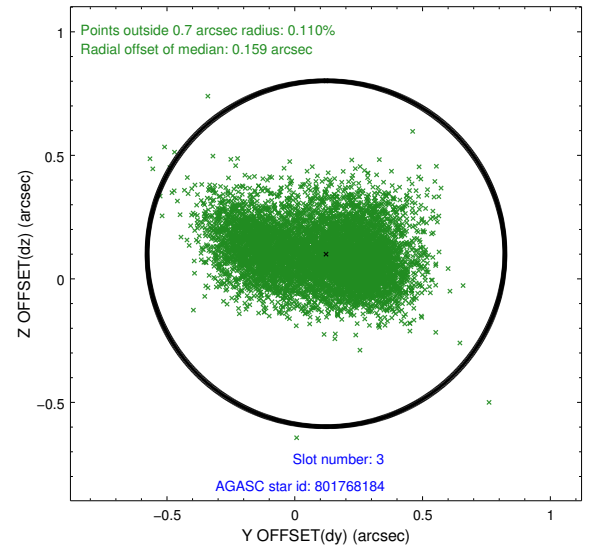
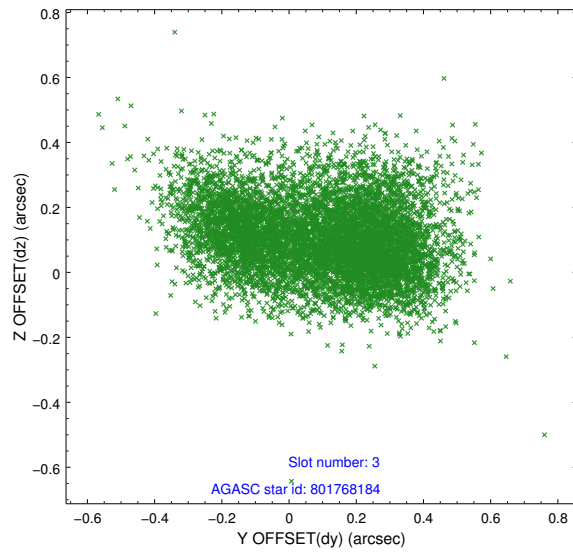


Slot Statistics

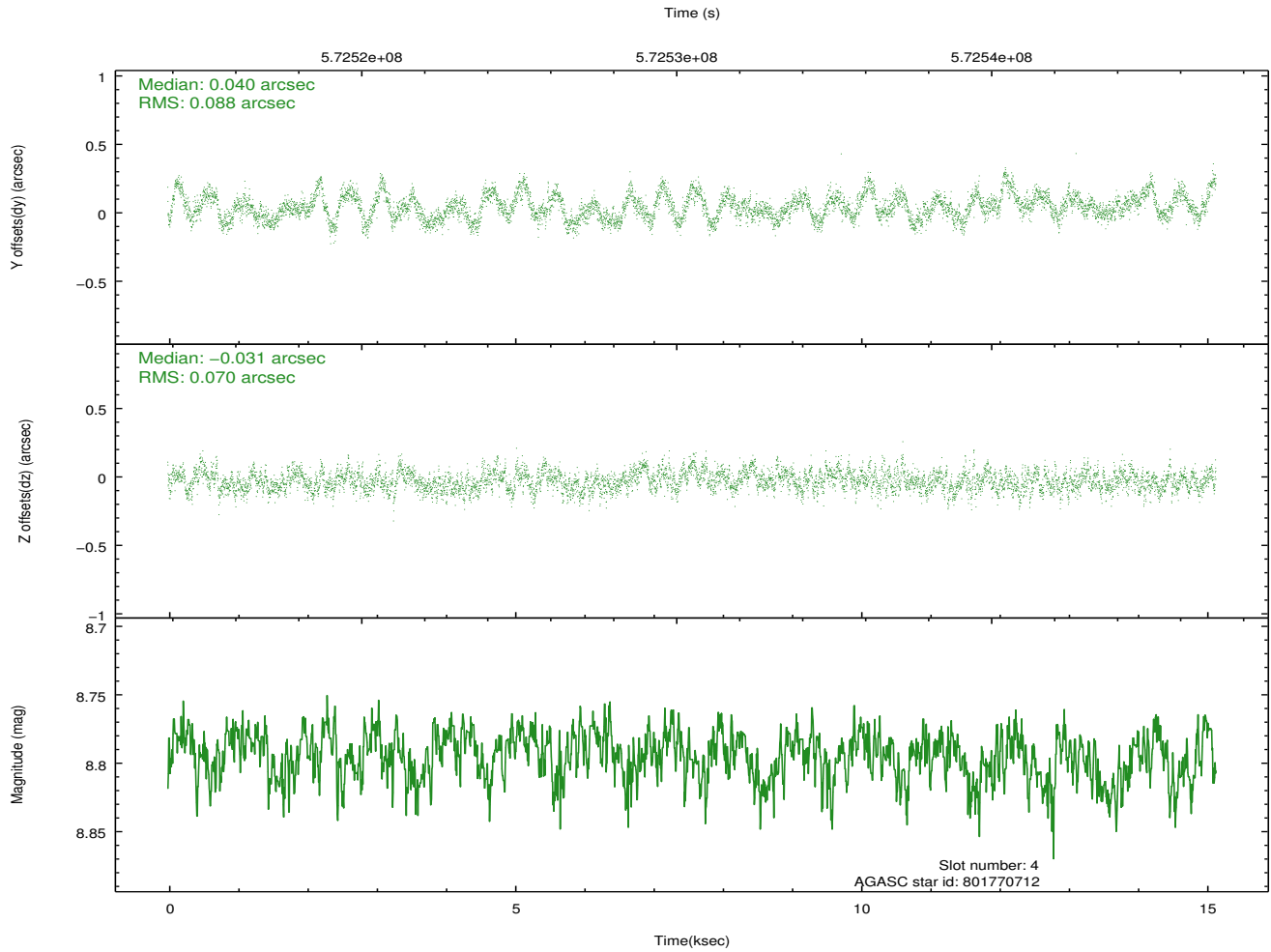
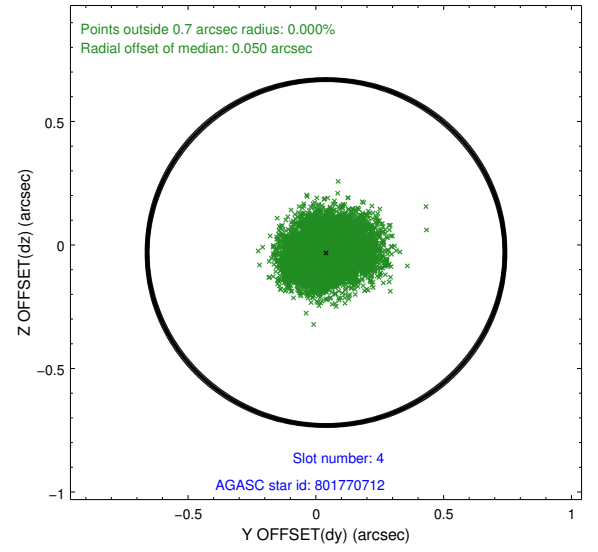
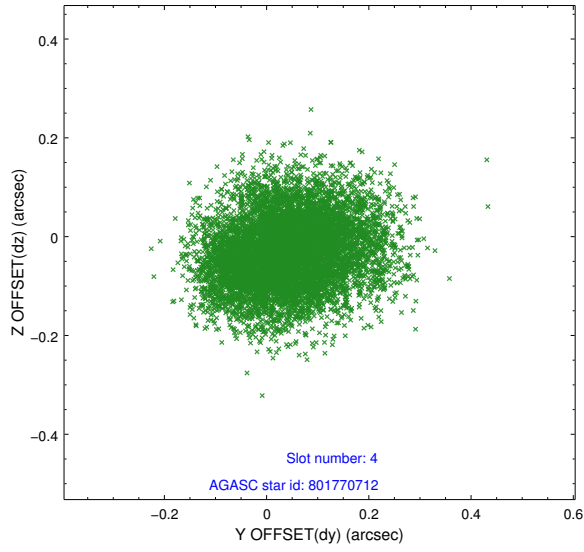
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	3695	-0.206	-0.142	0.008	0.013	0.000000	0.000000	-771.76	-1741.32
1	FID		ACIS-S-4	7.25	3695	0.501	0.137	0.008	0.014	0.000000	0.000000	2142.07	167.16
2	FID		ACIS-S-5	7.27	3695	-0.326	0.014	0.007	0.012	0.000000	0.000000	-1824.36	161.00
3	GUIDE	used	801768184	9.80	7279	0.122	0.102	0.254	0.405	192.821296	-22.216840	-1458.73	261.34
4	GUIDE	used	801770712	8.79	7385	0.040	-0.031	0.120	0.191	192.947341	-21.821424	-68.82	781.46
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	801773600	8.71	7385	0.149	0.172	0.118	0.201	193.849862	-21.749493	1944.76	-1478.78
7	GUIDE	used	801776384	8.84	7384	-0.292	-0.247	0.136	0.219	193.379009	-21.298144	2305.20	755.20

2.4 Star Slots

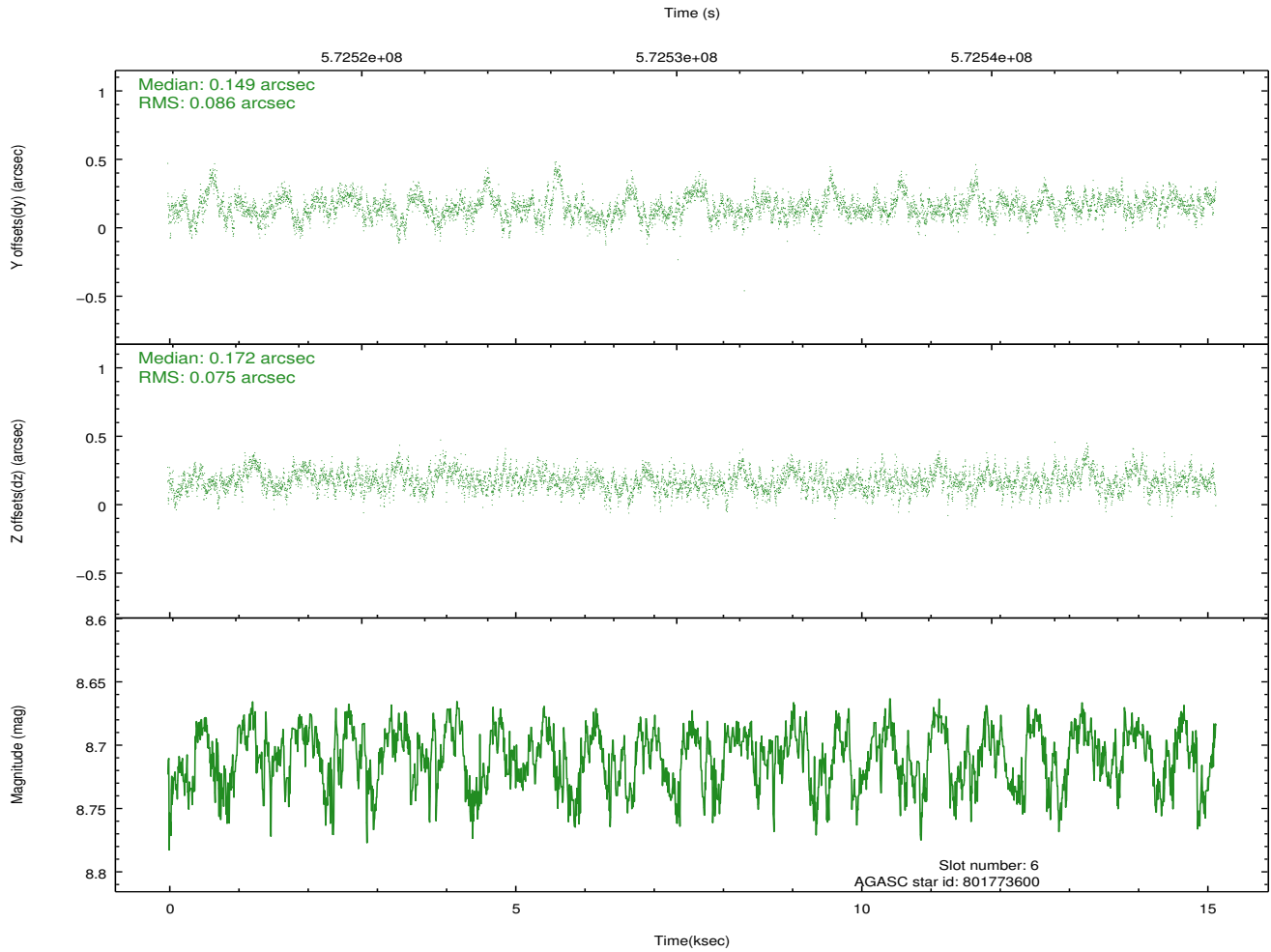
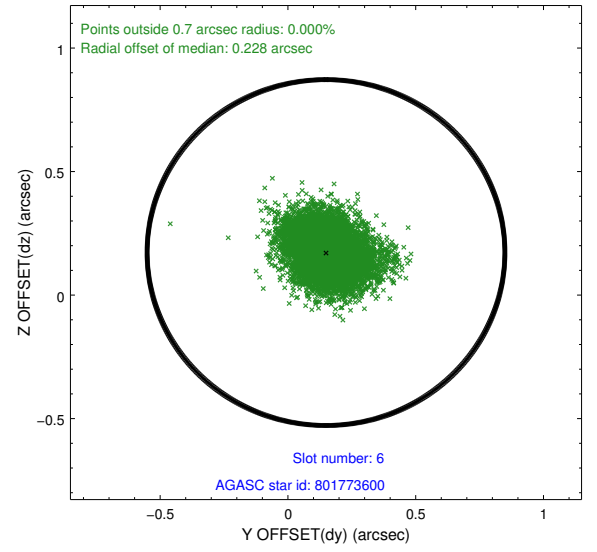
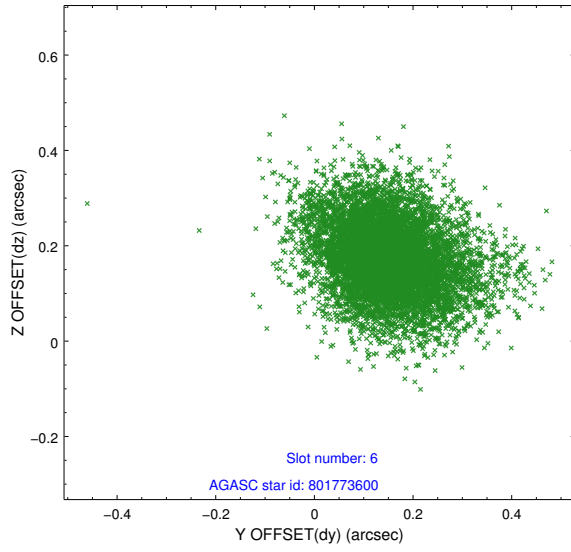
2.4.1 Slot 3



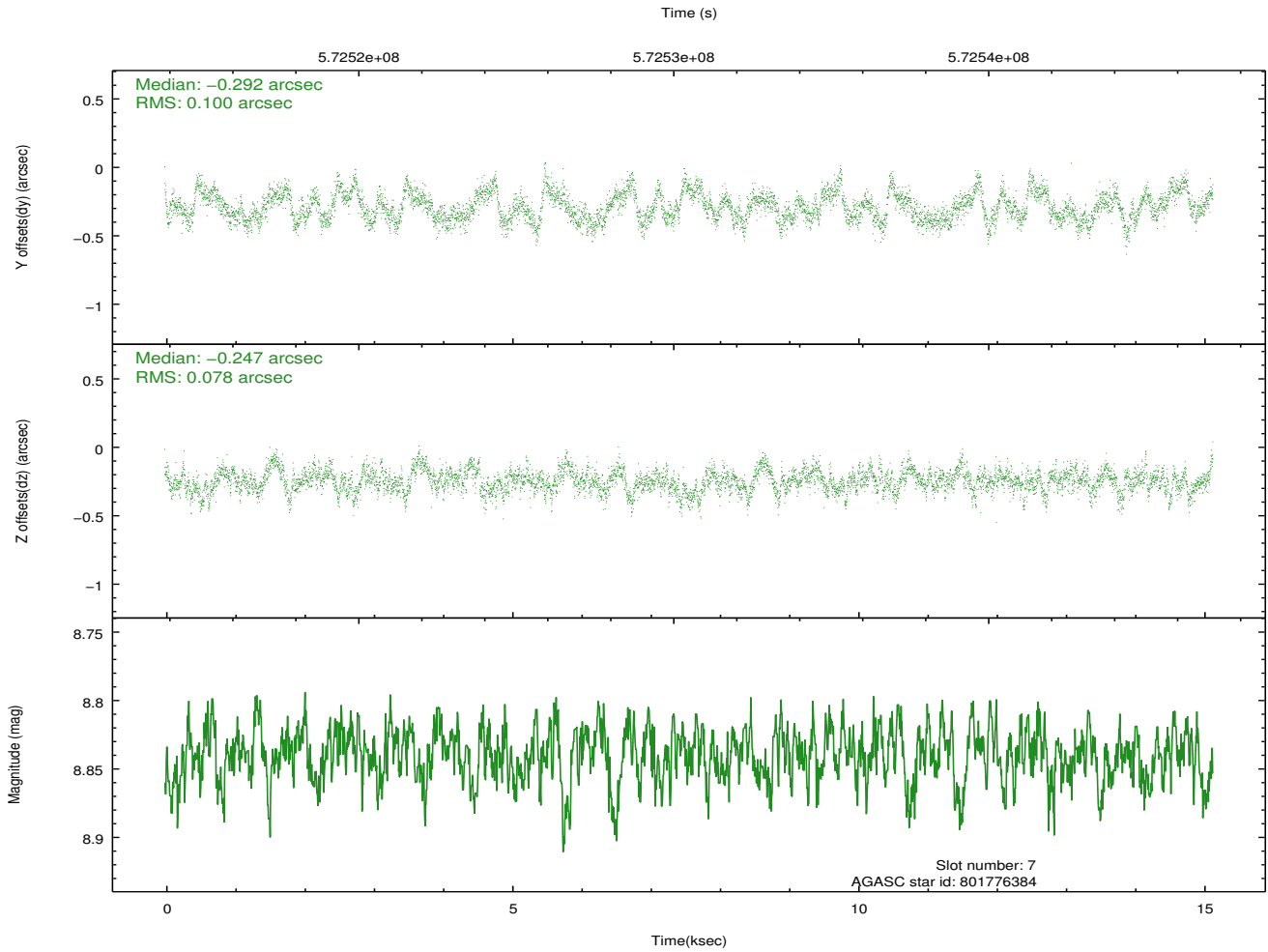
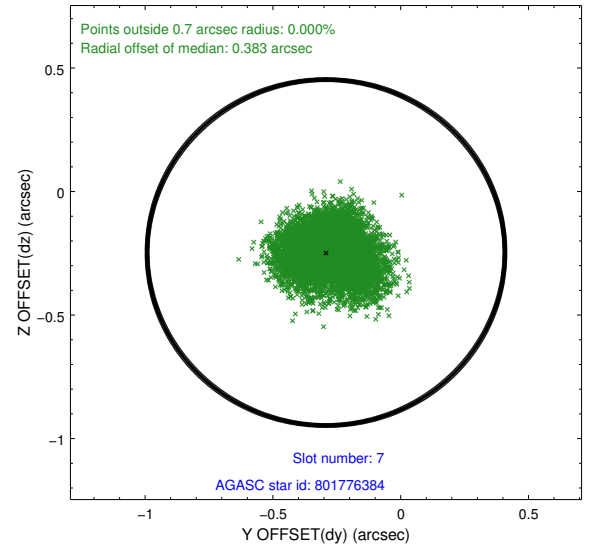
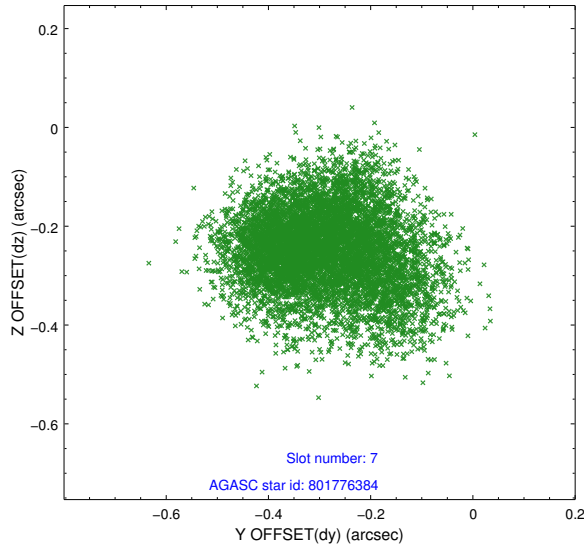
2.4.2 Slot 4



2.4.3 Slot 6

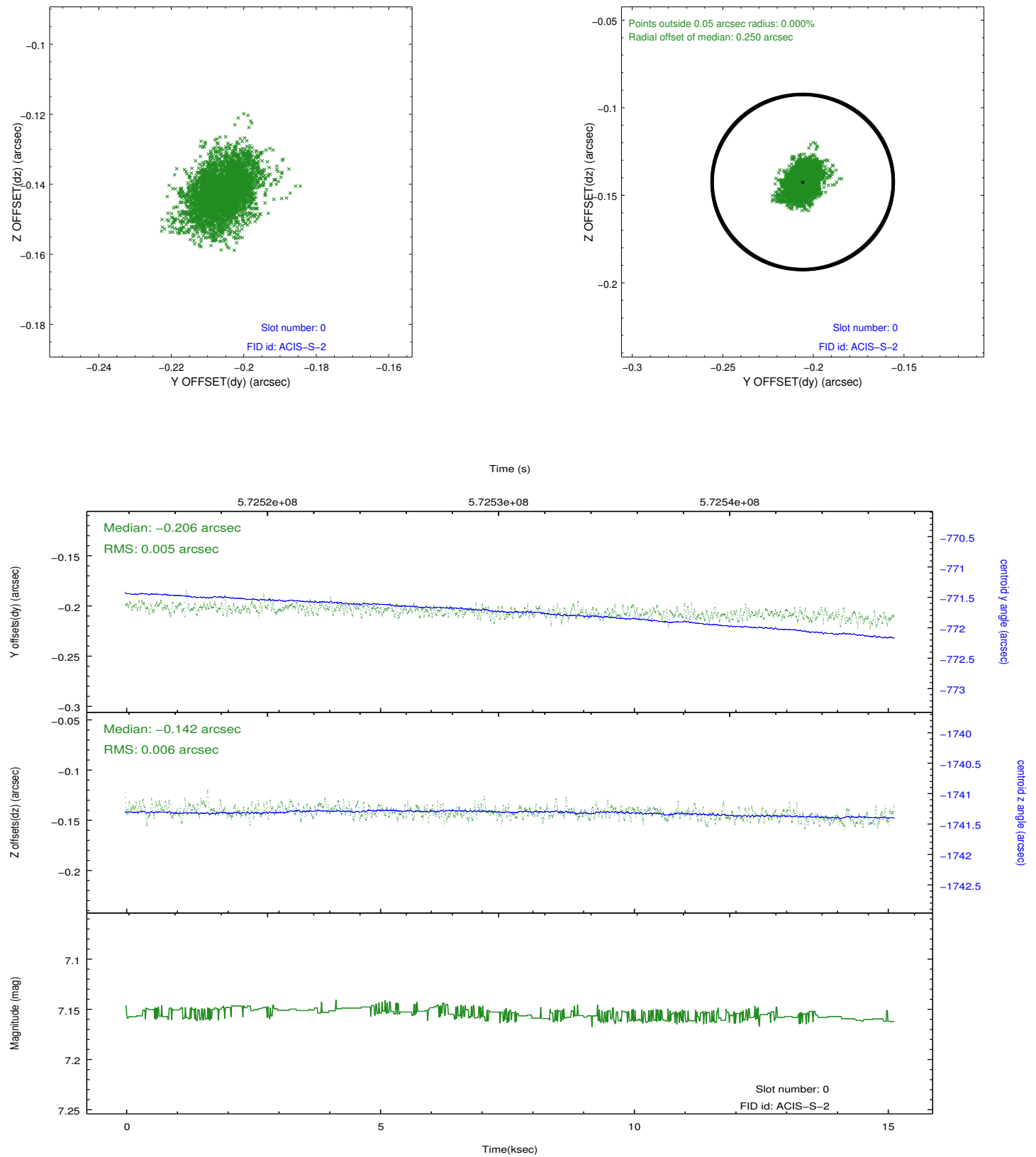


2.4.4 Slot 7

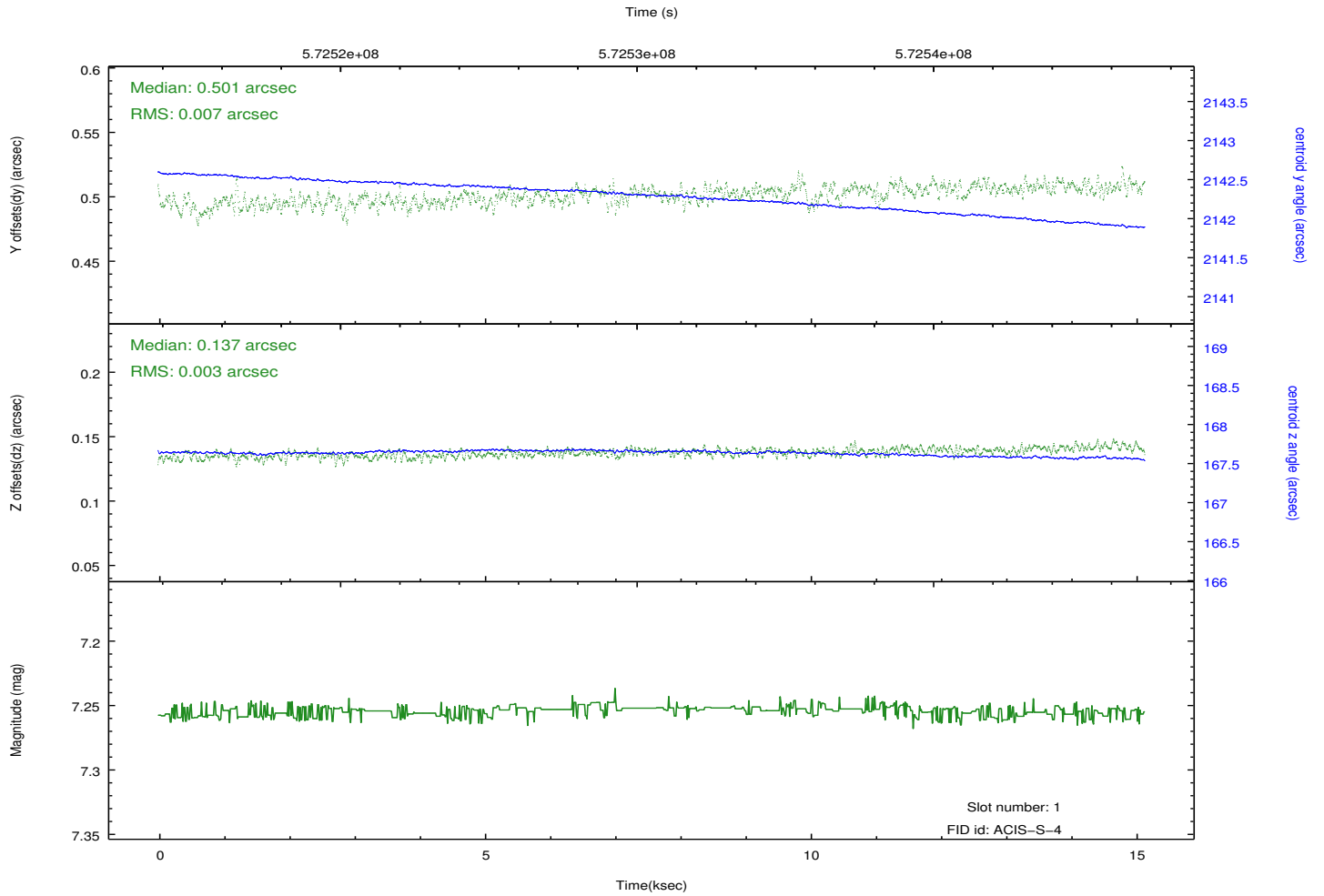
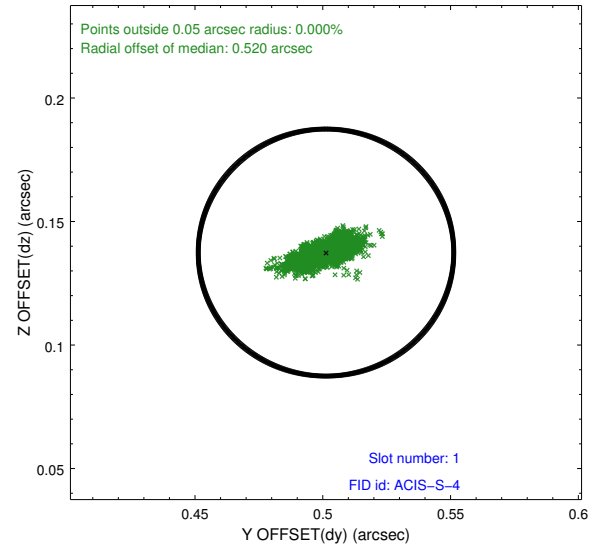
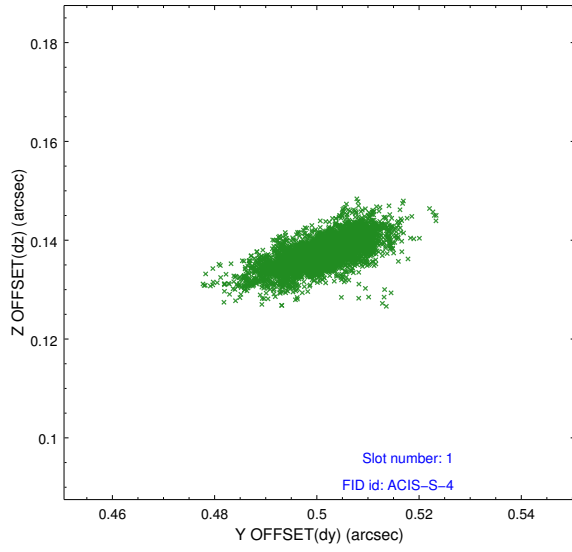


2.5 FID Slots

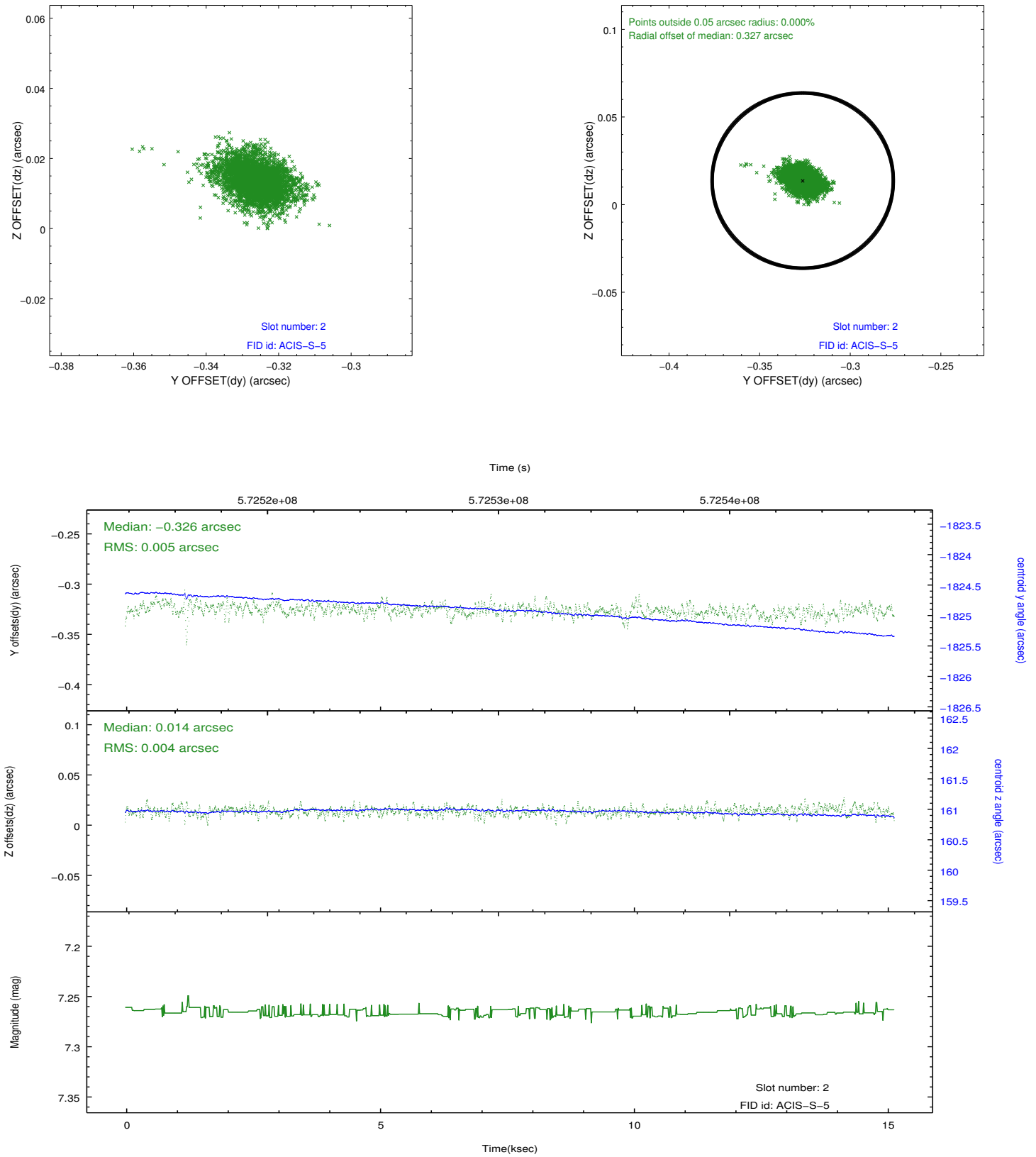
2.5.1 Slot 0



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)	2016.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.940800222635

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.