

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18270 - L2 Version 1
Chandra X-Ray Center

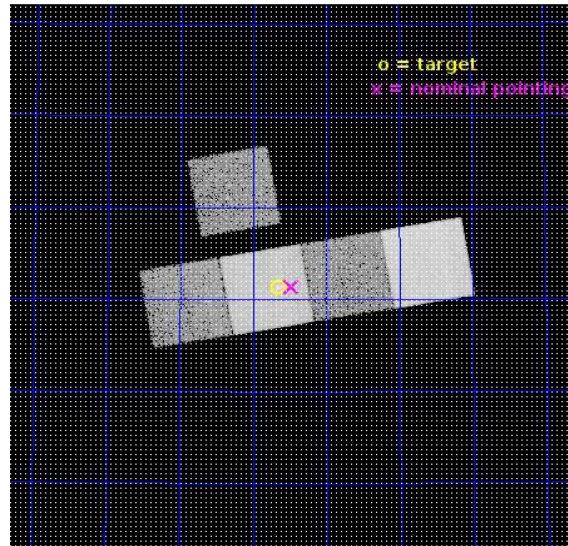
L2 Processing Date : May 7 2017

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1 Front

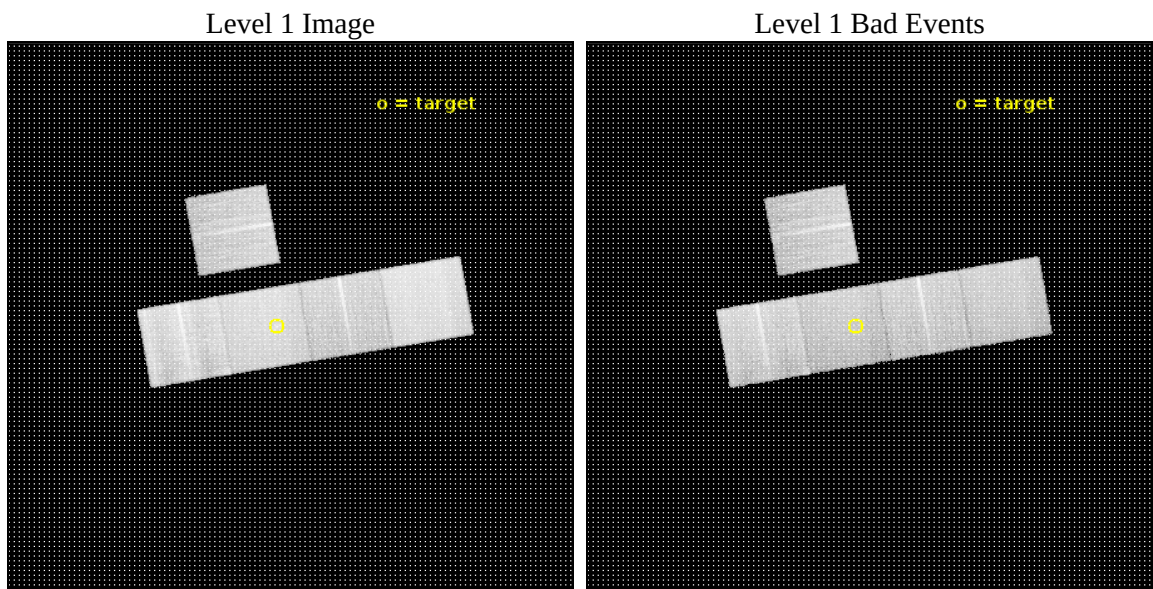
seq_num	801594	Sequence number
obs_id	18270	Observation id
title	The origin of the cold gas in the hot core of the LGG 402 galaxy group	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	LGG 402	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.665833	Observer's specified target RA [deg]
dec_targ	59.355833	Observer's specified target Dec [deg]
ra_nom	234.61925893293	Nominal RA [deg]
dec_nom	59.357267039575	Nominal Dec [deg]
roll_nom	170.1967324226	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19238.600148082	Sum of GTIs [s]
livetime	18987.233673896	Livetime [s]
ontime3	19232.318237066	Sum of GTIs [s]
ontime5	19238.600148082	Sum of GTIs [s]
ontime6	19238.600148082	Sum of GTIs [s]
ontime7	19238.600148082	Sum of GTIs [s]
ontime8	19232.318237066	Sum of GTIs [s]
l2events	214929	Number of level 2 events



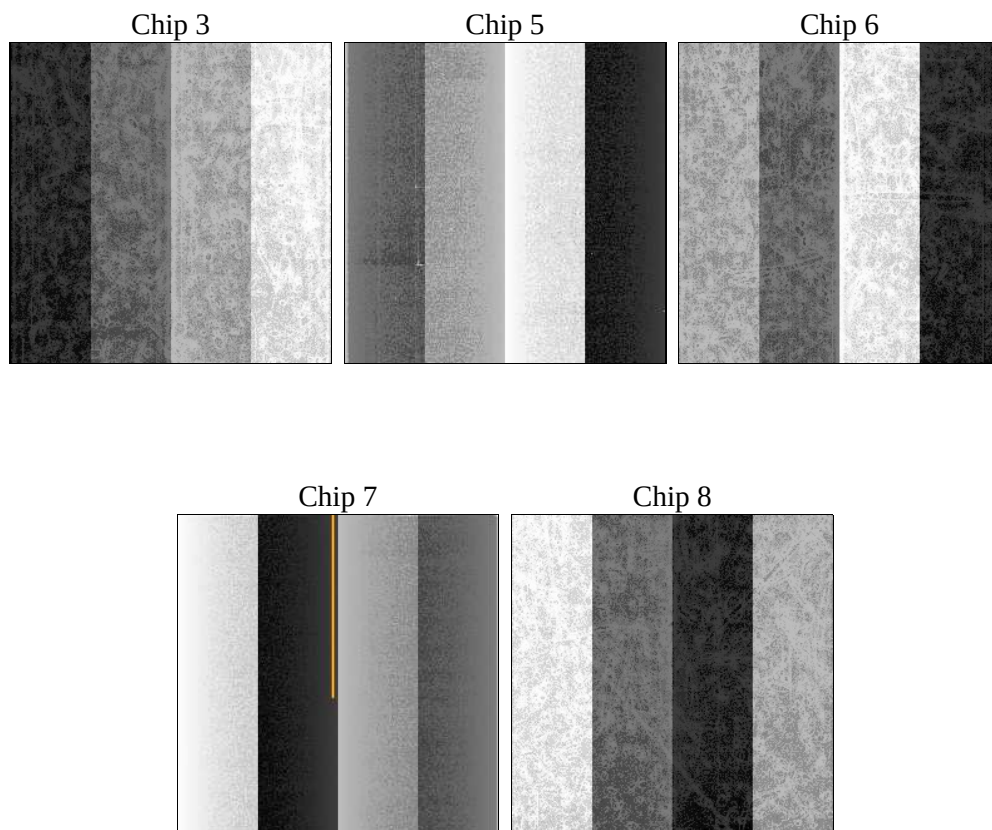
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19186.551000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	19238.600148082	Sum of GTIs [s]
caldsver	4.7.4	 	ontime3	19232.318237066	Sum of GTIs [s]
date	2017-05-07T05:59:51	Date and time of file creation	ontime5	19238.600148082	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	19238.600148082	Sum of GTIs [s]
			ontime7	19238.600148082	Sum of GTIs [s]
			ontime8	19232.318237066	Sum of GTIs [s]
			l1events	825078	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	131694	208227	134533	172865	177759
rejected events	117725	108132	118975	96056	129969
rejected %	89%	51%	88%	55%	73%

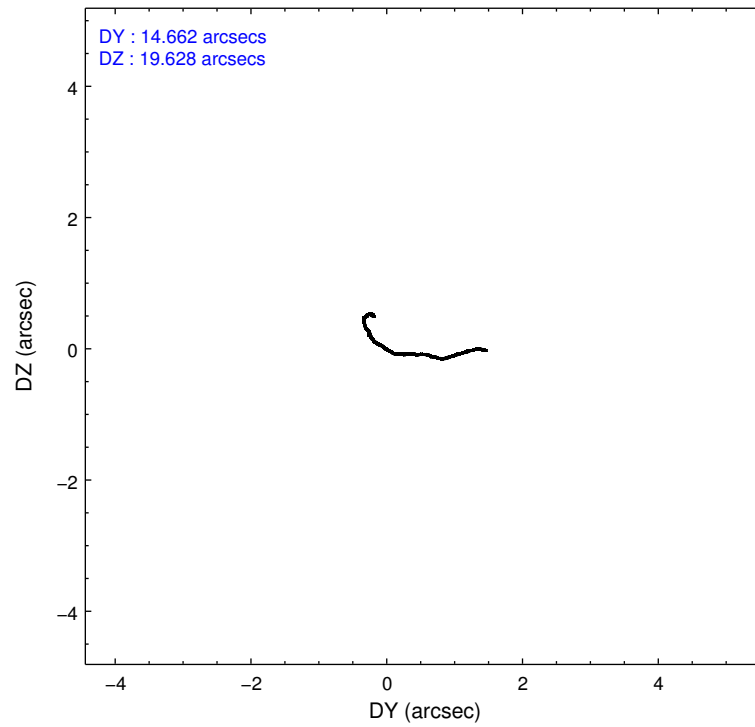
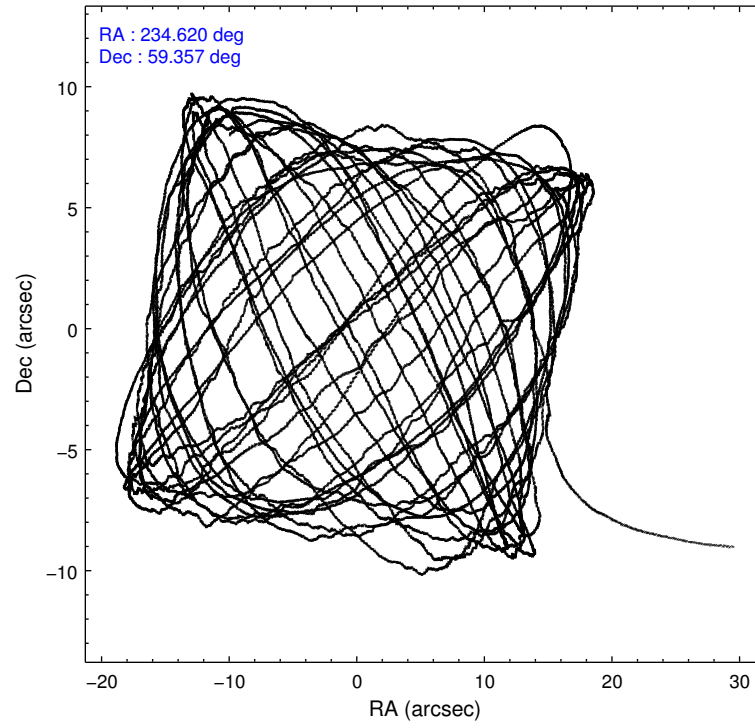
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5055	5672	5315	6981	13743
	3%	2%	3%	4%	7%
grade 1 events	67	453	78	265	142
	0%	0%	0%	0%	0%
grade 2 events	3092	31606	3677	16497	11906
	2%	15%	2%	9%	6%
grade 3 events	1514	3274	1544	6328	4884
	1%	1%	1%	3%	2%
grade 4 events	1456	3195	1470	6197	4455
	1%	1%	1%	3%	2%
grade 5 events	6358	14831	6171	17070	9365
	4%	7%	4%	9%	5%
grade 6 events	2860	56369	3555	40829	12874
	2%	27%	2%	23%	7%
grade 7 events	111292	92827	112723	78698	120390
	84%	44%	83%	45%	67%

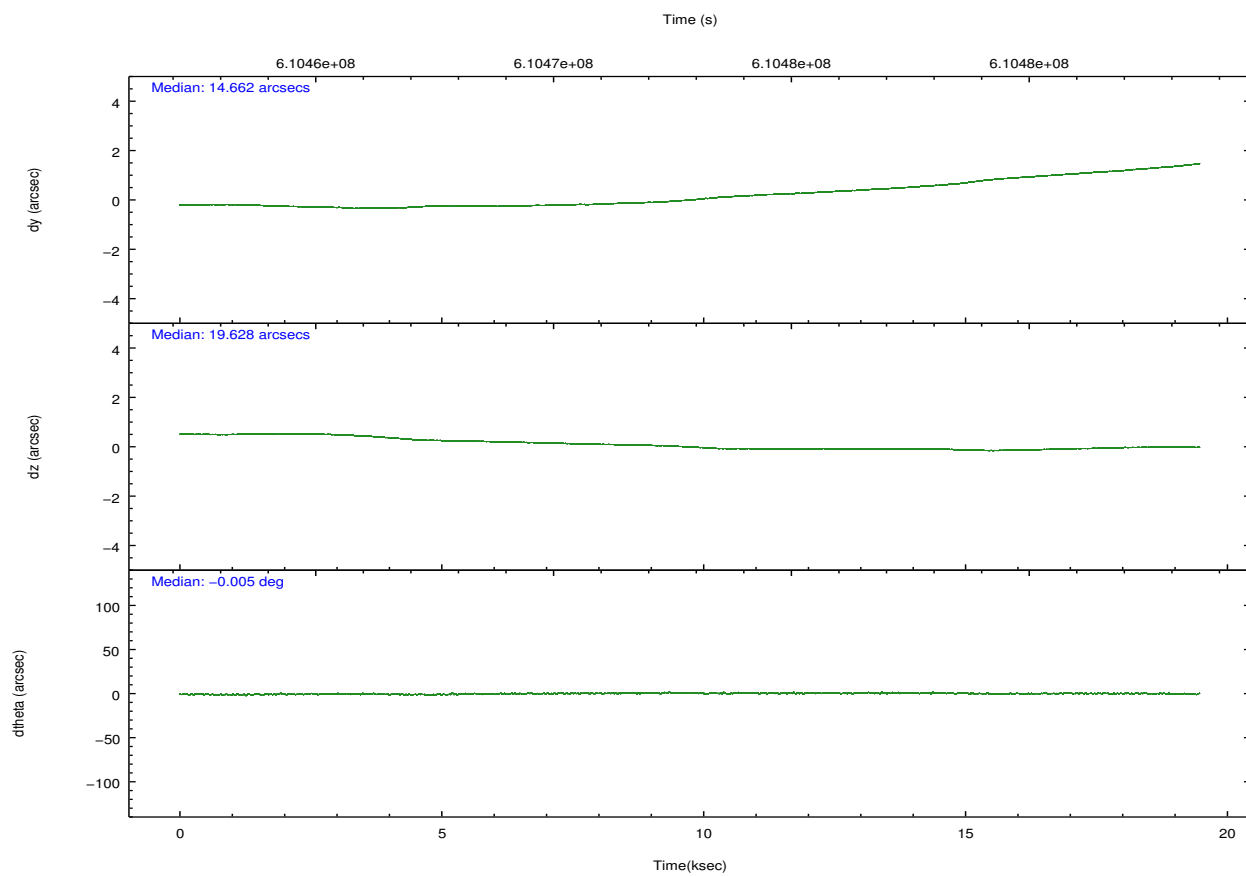
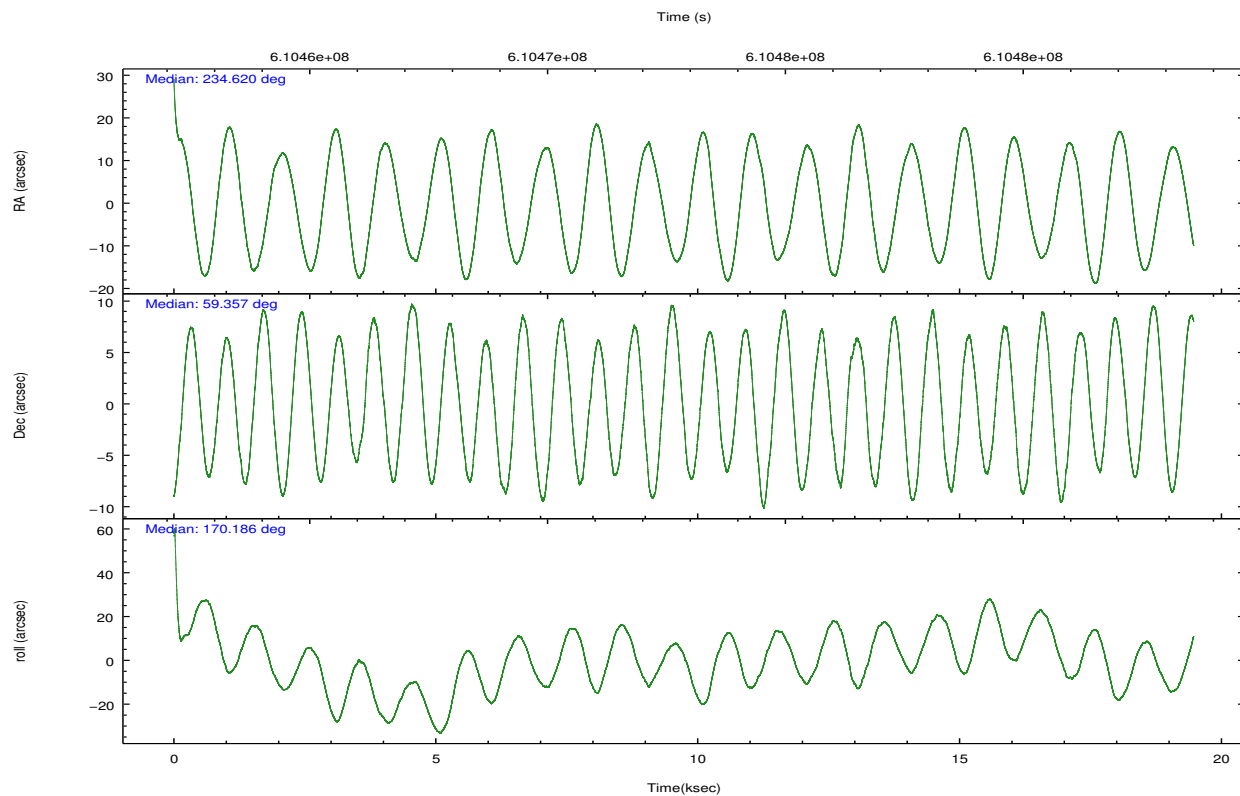
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	234.669521	234.6192589329312
[deg] Pointing Dec	59.367053	59.35726703957451
[deg] Pointing Roll	169.996821	170.1967324225981
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	610463416.184000	610462407.95488
Observation start date	2017-05-06T13:09:07	2017-05-06T12:53:27
[s] Observation end time (MET)	610482602.184000	610482825.9560699
Observation end date	2017-05-06T18:28:53	2017-05-06T18:33:45
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
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	3.1

2.3 Aspect



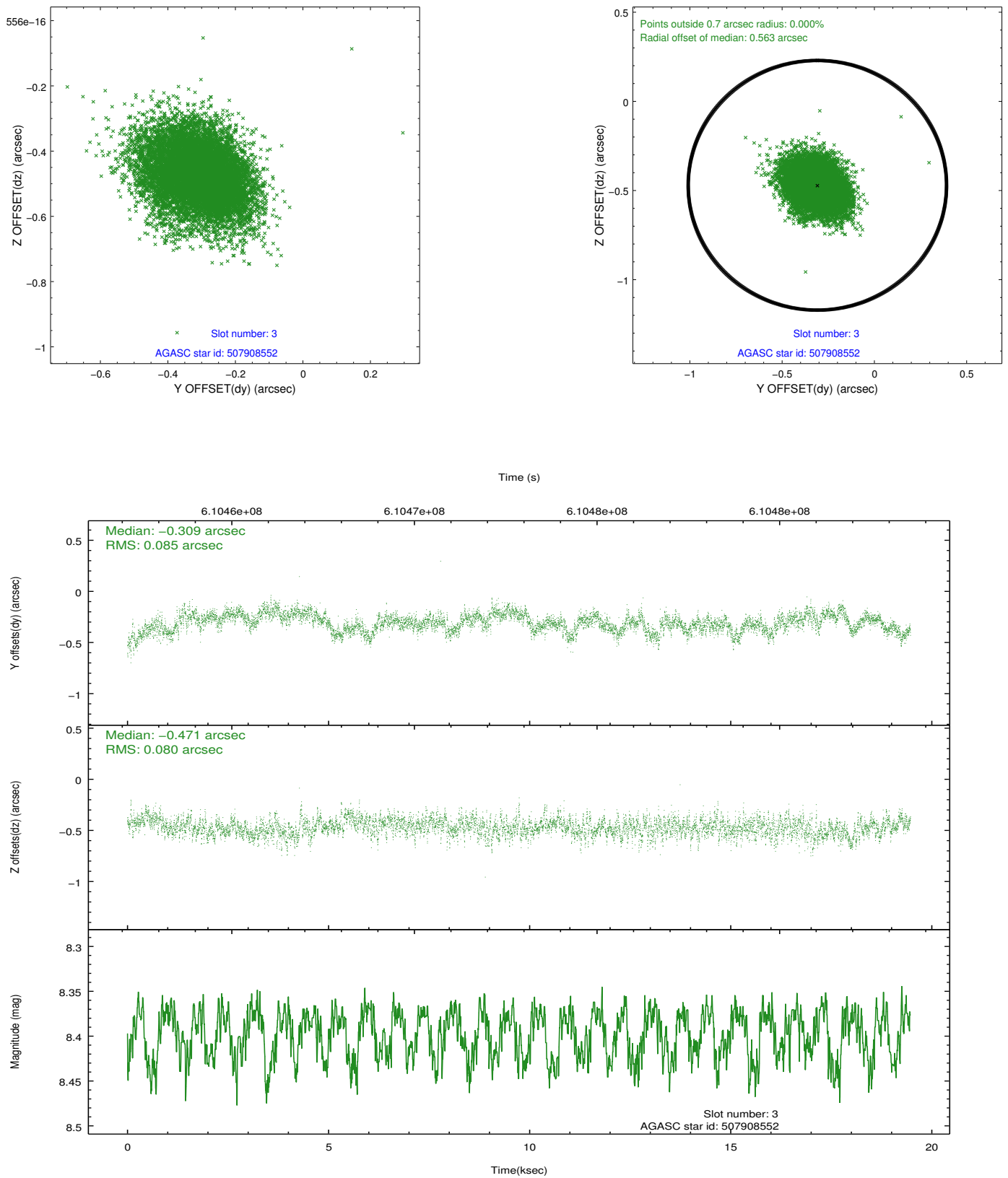


Slot Statistics

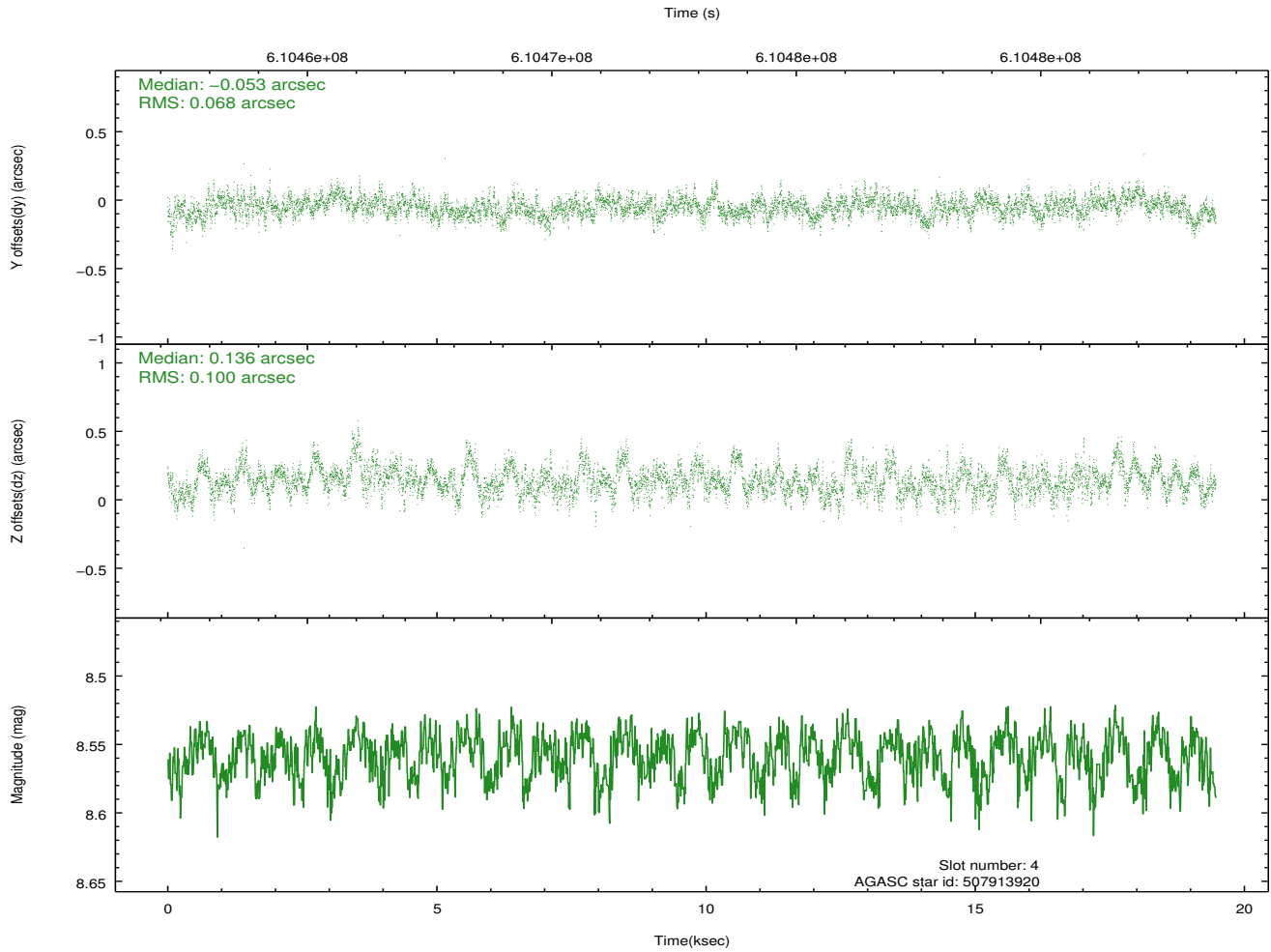
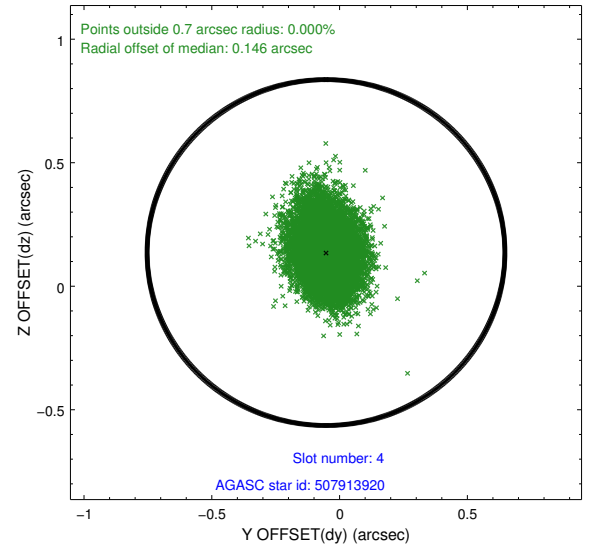
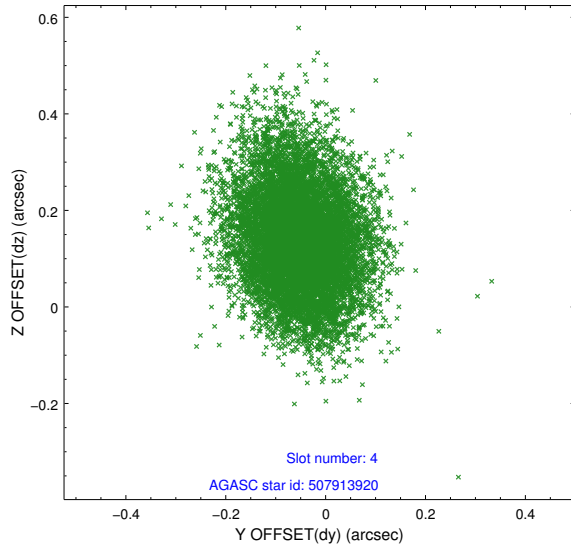
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	4748	-0.215	-0.092	0.012	0.017	0.000000	0.000000	-768.04	-1741.30
1	FID		ACIS-S-4	7.17	4749	0.487	0.128	0.008	0.013	0.000000	0.000000	2145.81	167.24
2	FID		ACIS-S-5	7.16	4749	-0.303	-0.028	0.010	0.017	0.000000	0.000000	-1820.75	160.92
3	GUIDE	used	507908552	8.40	9494	-0.309	-0.471	0.123	0.202	233.880841	59.097342	1268.99	1201.24
4	GUIDE	used	507913920	8.56	9494	-0.053	0.136	0.127	0.213	235.306966	59.347772	-1162.70	-139.56
5	GUIDE	used	548024472	8.14	9496	0.202	-0.034	0.132	0.217	233.833506	60.086985	1927.75	-2297.93
6	GUIDE	used	508038464	9.25	9483	0.255	0.149	0.170	0.278	235.886564	59.716346	-1952.34	-1640.99
7	GUIDE	used	548146112	8.60	9492	-0.091	0.216	0.121	0.209	234.692236	60.011012	363.24	-2289.54

2.4 Star Slots

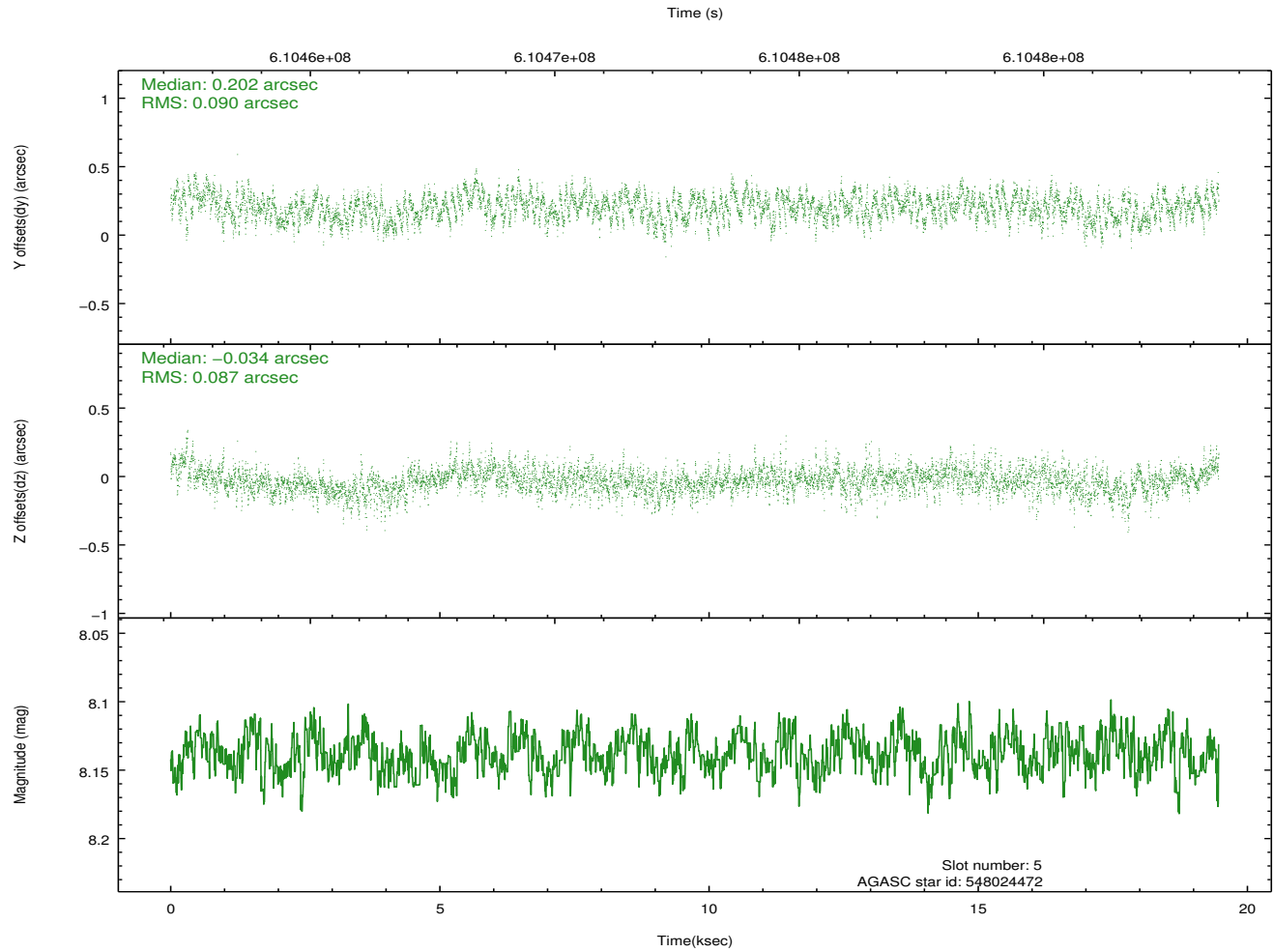
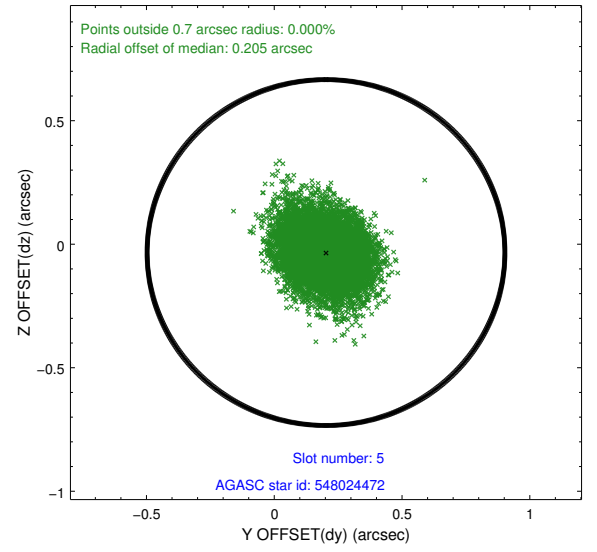
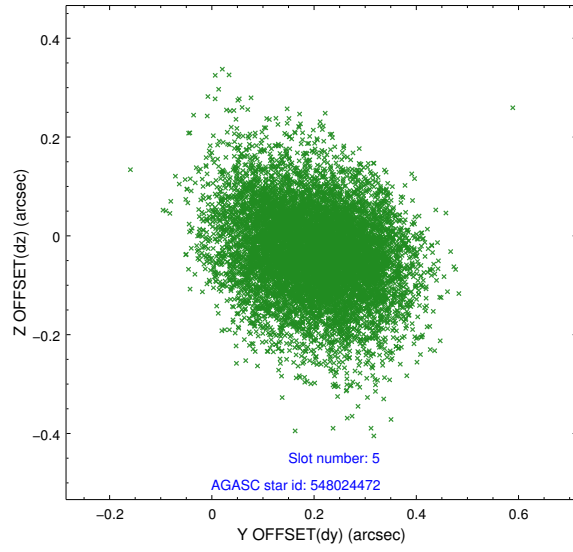
2.4.1 Slot 3



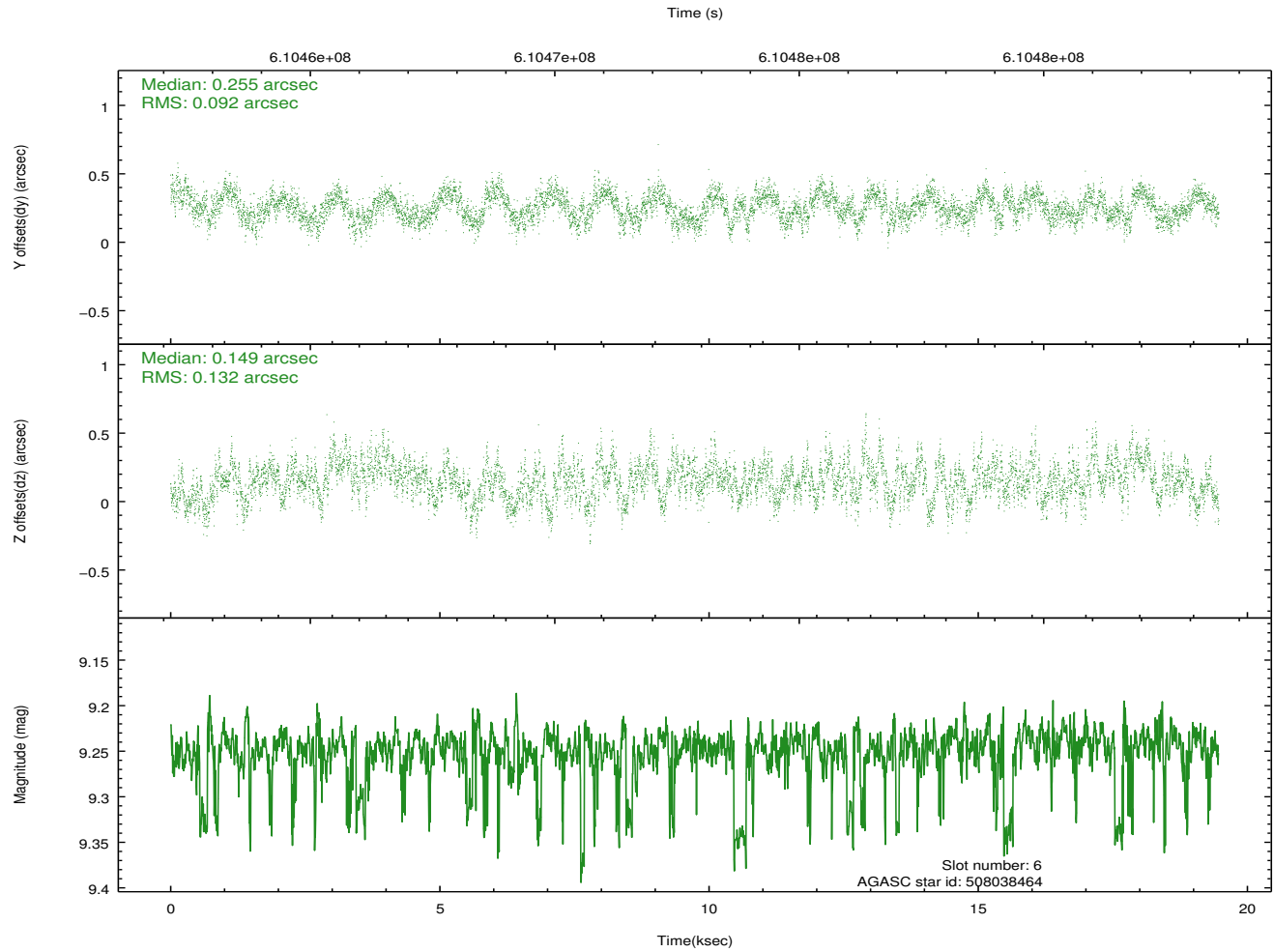
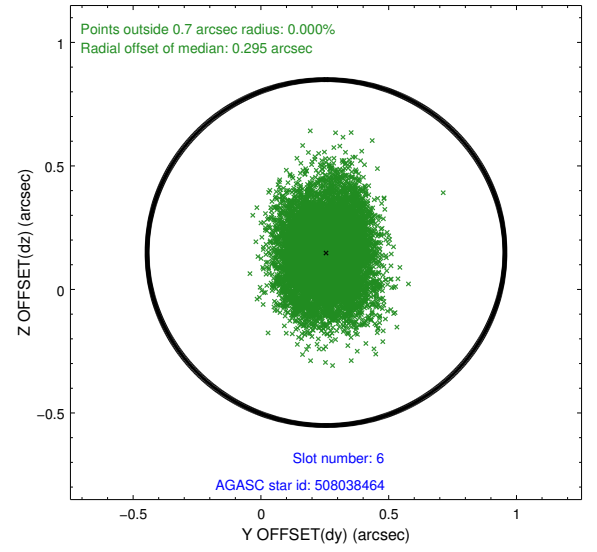
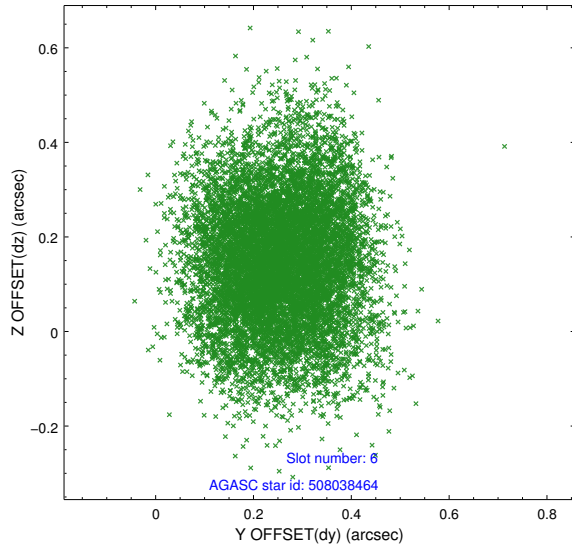
2.4.2 Slot 4



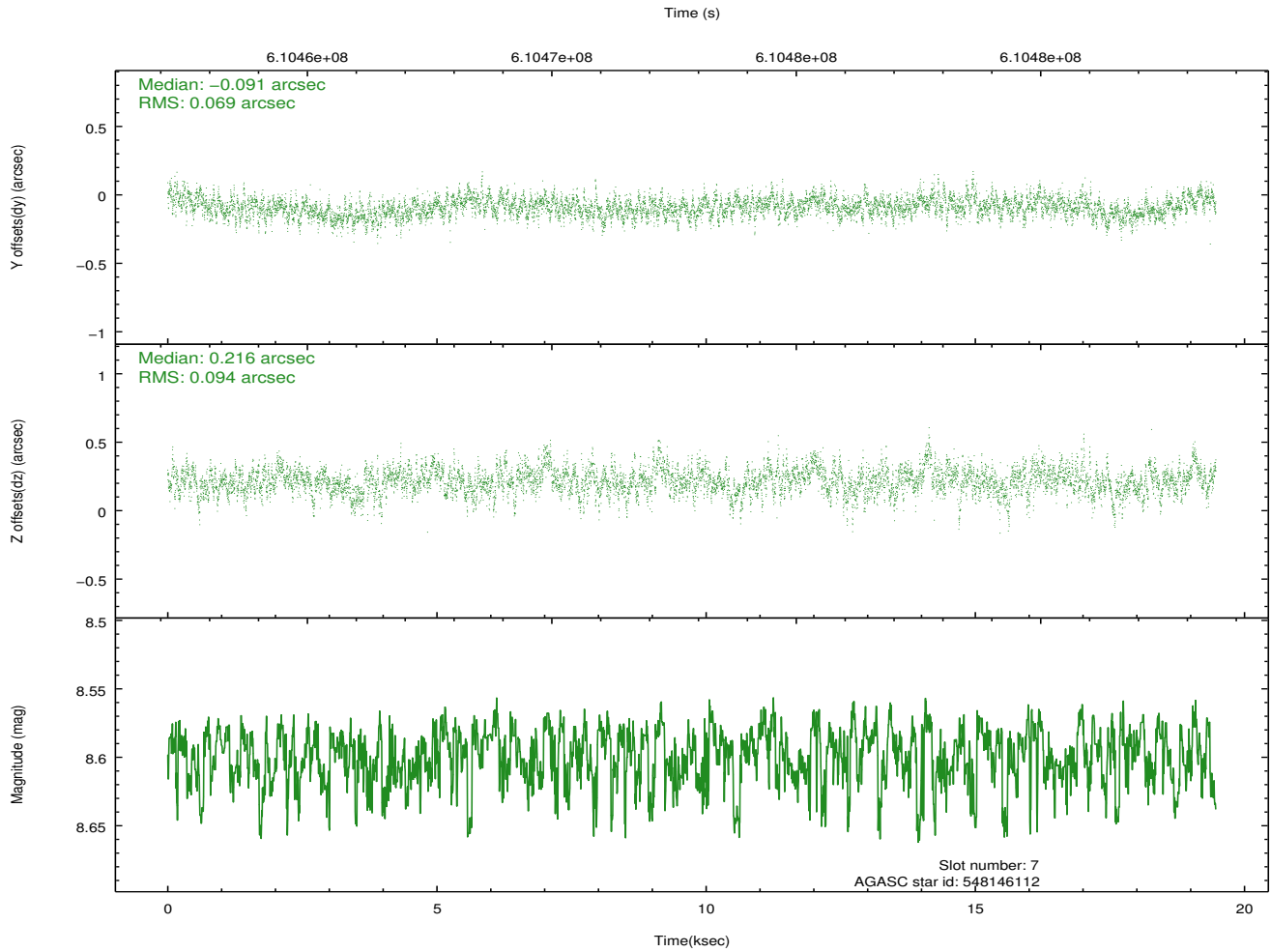
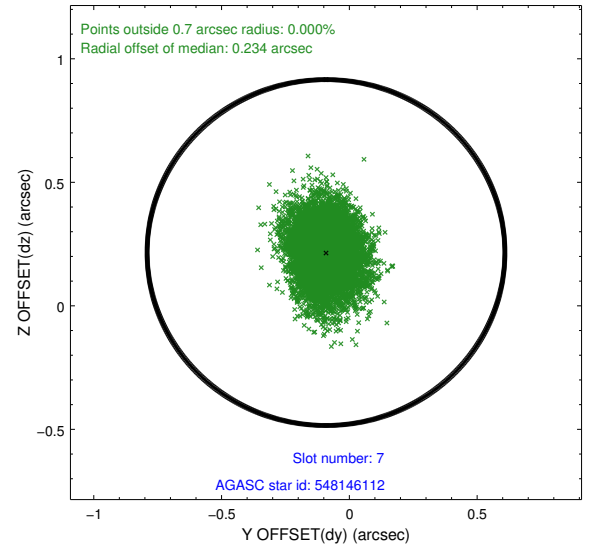
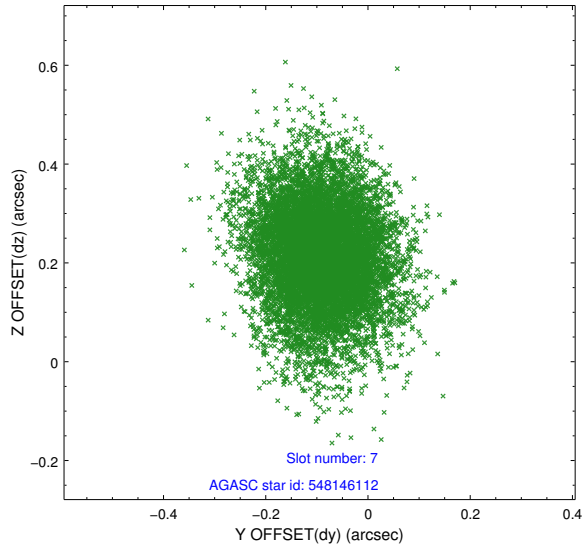
2.4.3 Slot 5



2.4.4 Slot 6

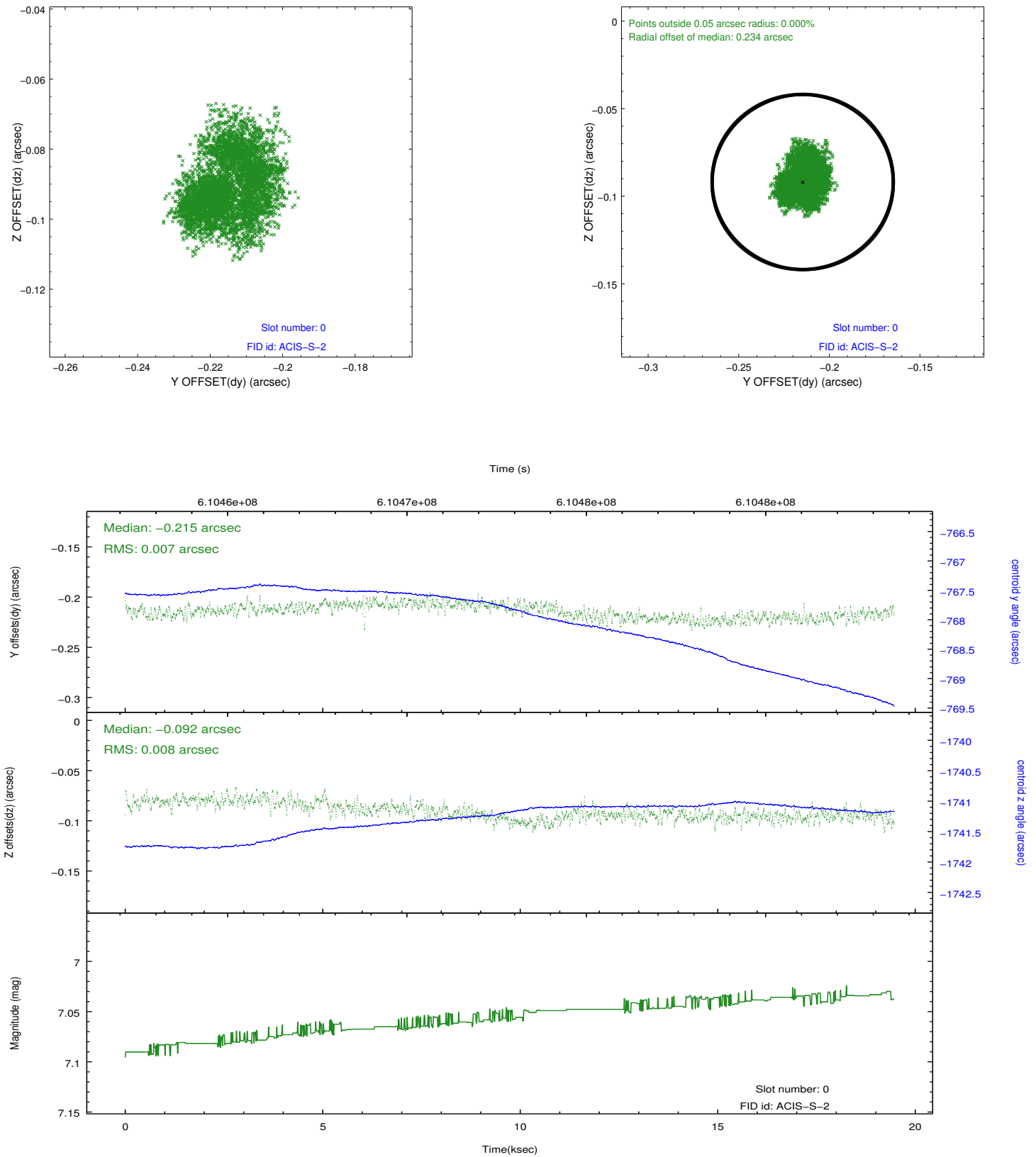


2.4.5 Slot 7

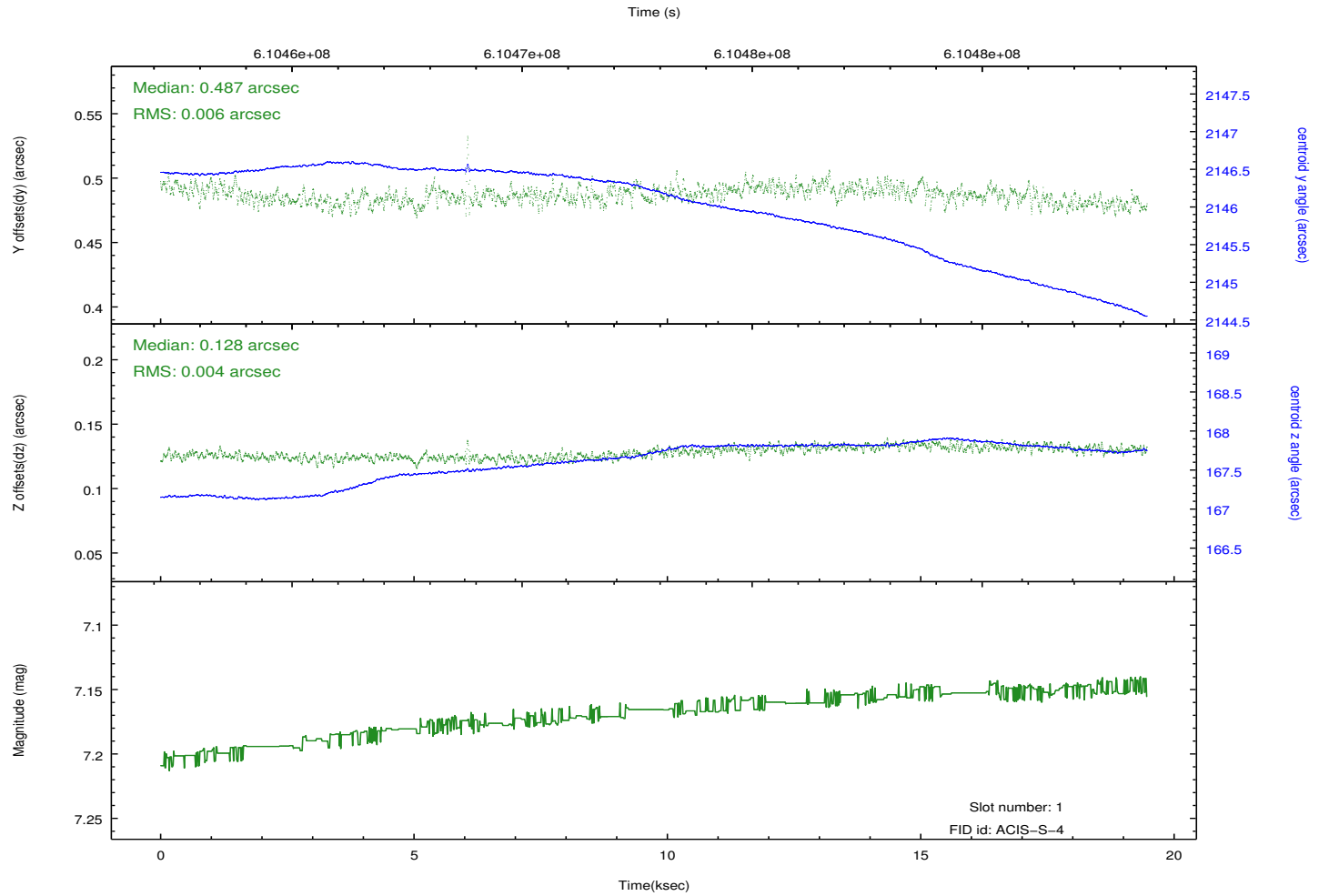
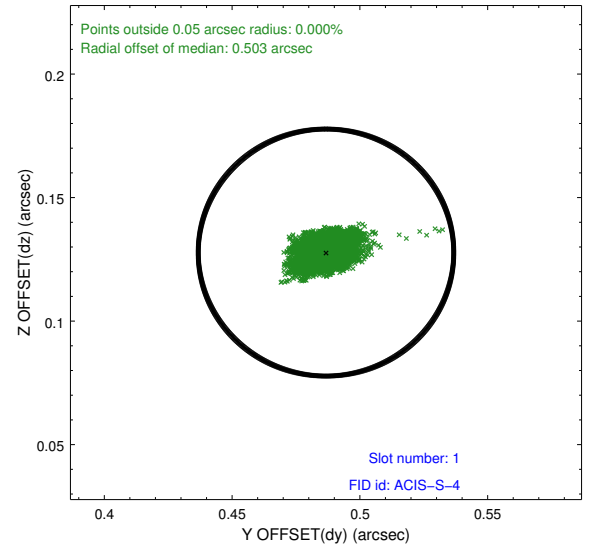
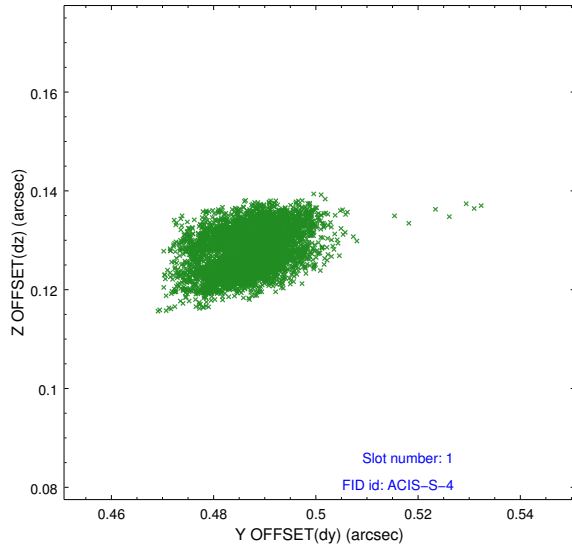


2.5 FID Slots

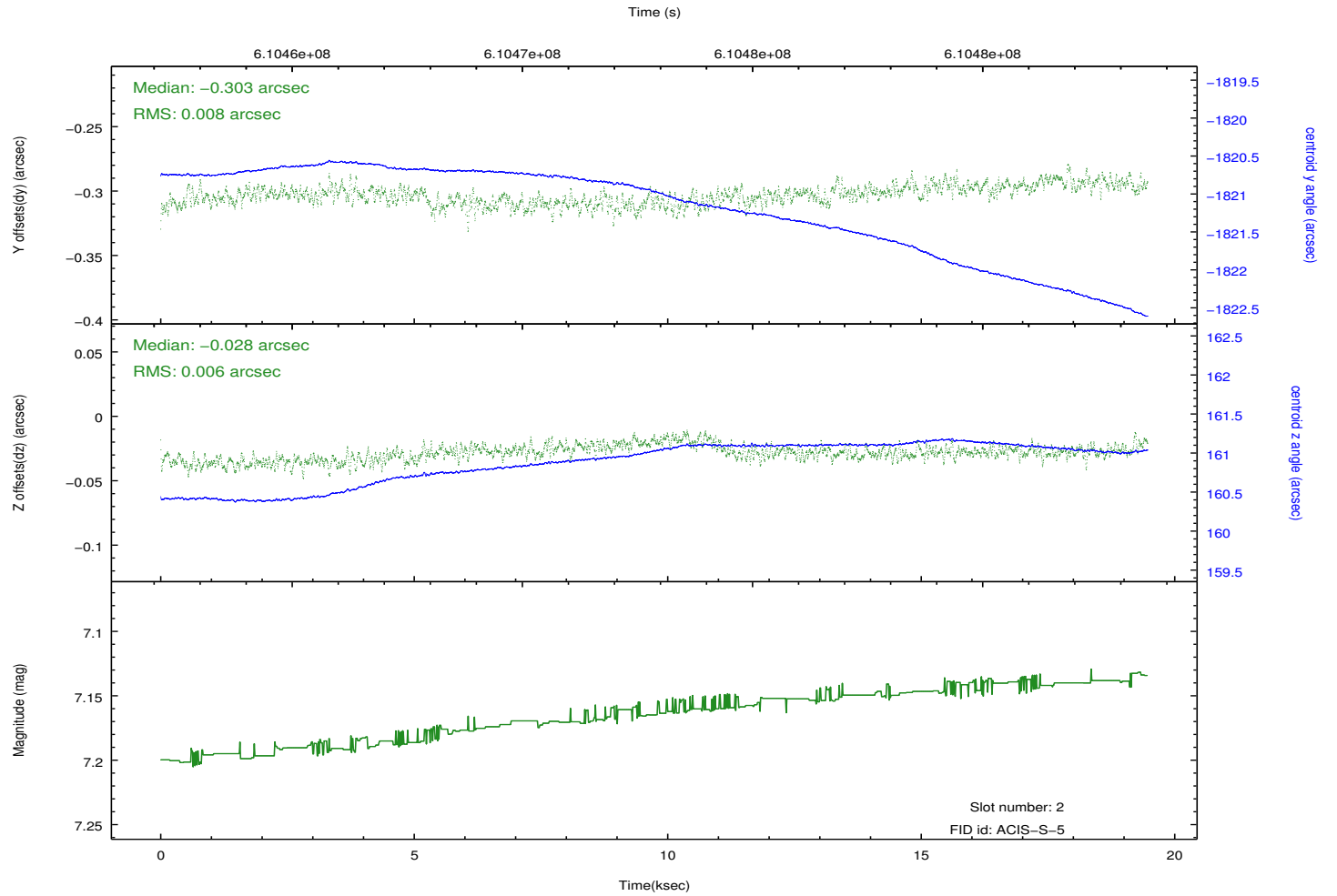
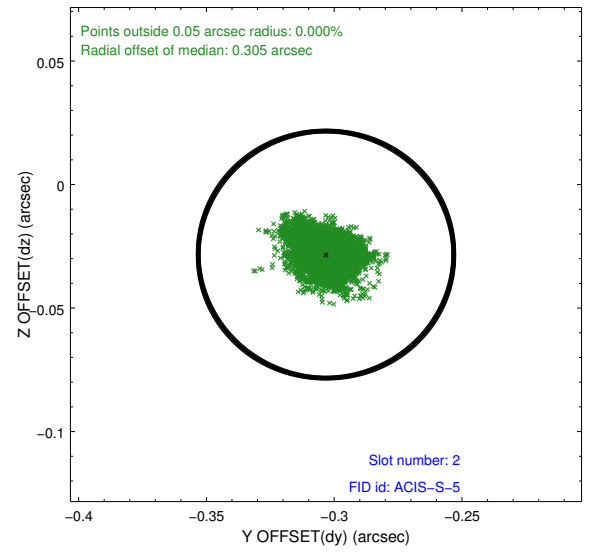
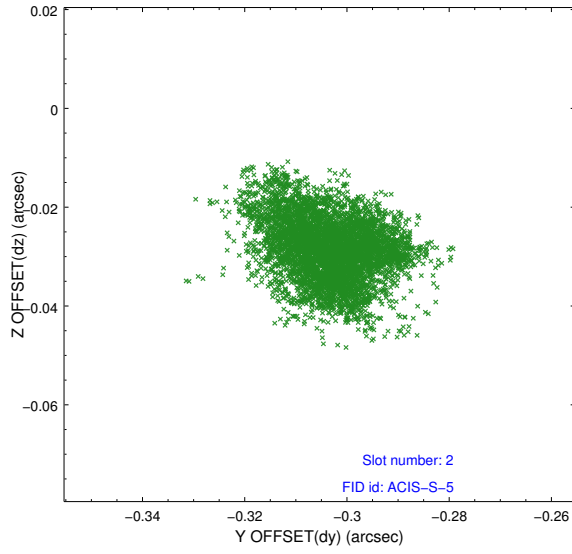
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.238600148082

A.2 Comments