

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19769 - L2 Version 1
Chandra X-Ray Center

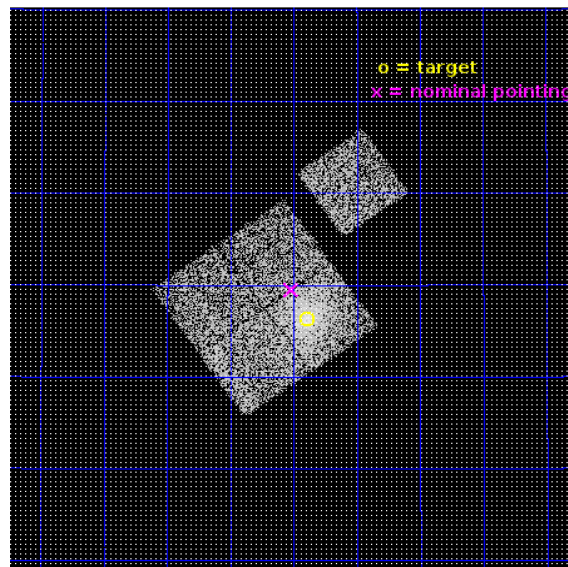
L2 Processing Date : Dec 19 2017

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1 Front

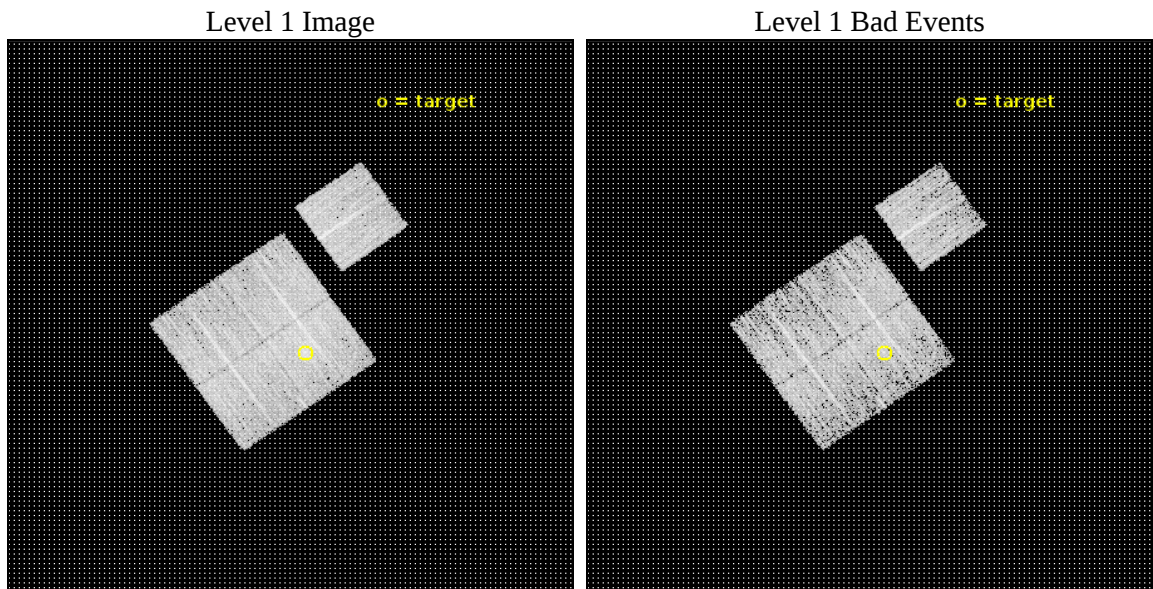
seq_num	801706	Sequence number
obs_id	19769	Observation id
title	Probing the Planck Cluster Sample	Proposal title
observer	Ralph Kraft	Principal investigator
object	A1800 (G040.63+77.13)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.349167	Observer's specified target RA [deg]
dec_targ	28.105833	Observer's specified target Dec [deg]
ra_nom	207.37959545996	Nominal RA [deg]
dec_nom	28.158259748133	Nominal Dec [deg]
roll_nom	54.826940909342	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5059.2000390291	Sum of GTIs [s]
livetime	4993.0978659903	Livetime [s]
ontime0	5056.0590786934	Sum of GTIs [s]
ontime1	5059.2000390291	Sum of GTIs [s]
ontime2	5059.2000390291	Sum of GTIs [s]
ontime3	5059.2000390291	Sum of GTIs [s]
ontime6	5059.2000390291	Sum of GTIs [s]
l2events	21412	Number of level 2 events



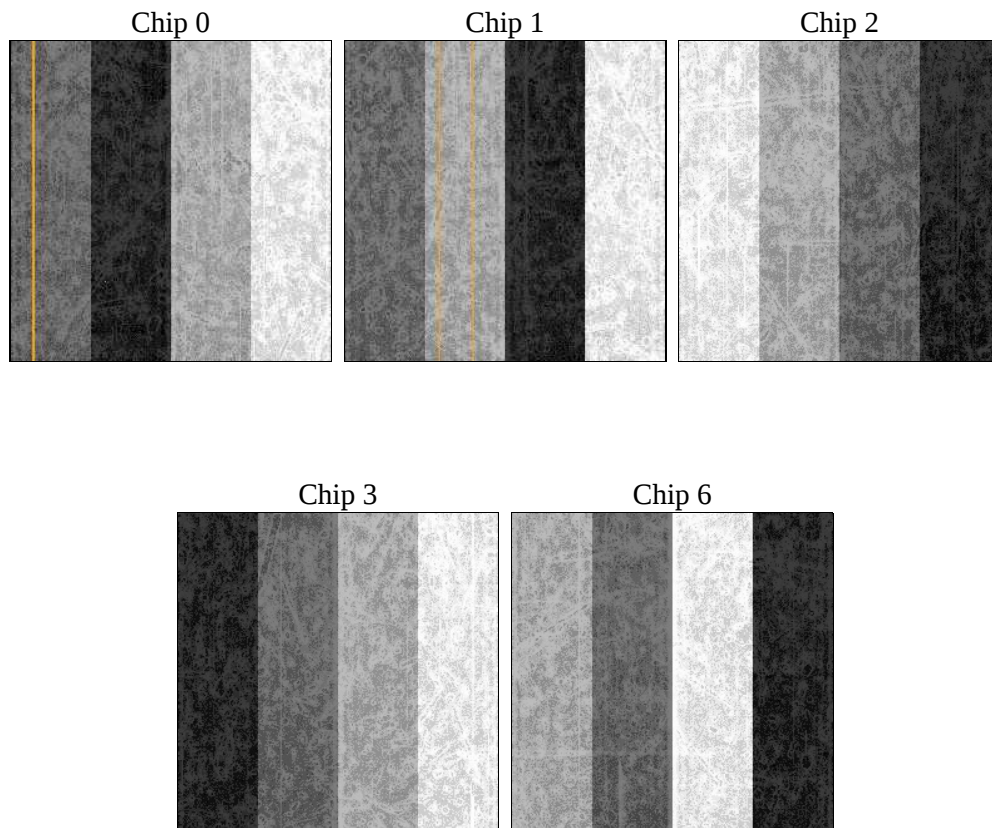
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	5059.2000390291	Sum of GTIs [s]
caldsver	4.7.7	 	ontime0	5056.0590786934	Sum of GTIs [s]
date	2017-12-20T04:18:46	Date and time of file creation	ontime1	5059.2000390291	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5059.2000390291	Sum of GTIs [s]
			ontime3	5059.2000390291	Sum of GTIs [s]
			ontime6	5059.2000390291	Sum of GTIs [s]
			l1events	181579	Number of level 1 events

2.1.4 Events

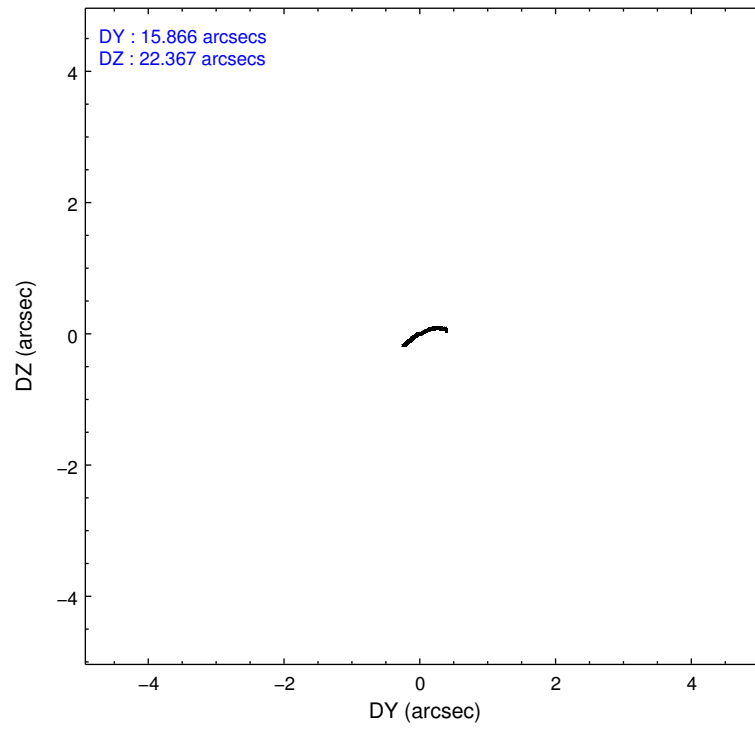
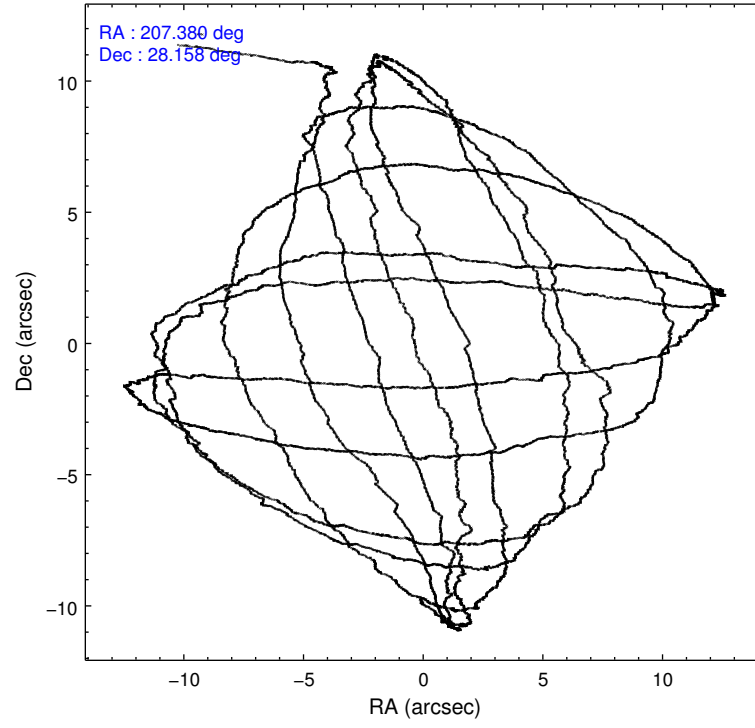
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	33972	34320	37091	39085	37111
rejected events	29755	29007	32952	31913	33018
rejected %	87%	84%	88%	81%	88%

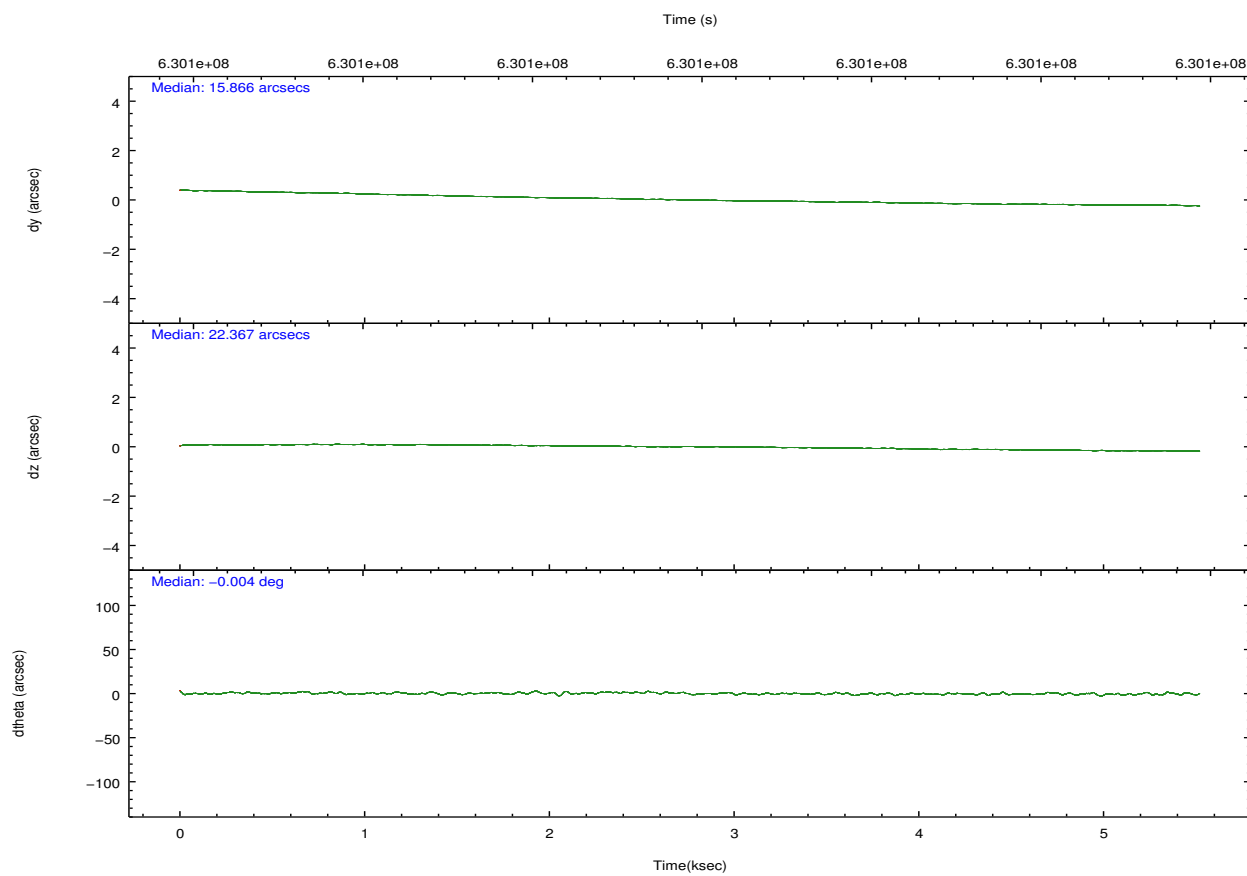
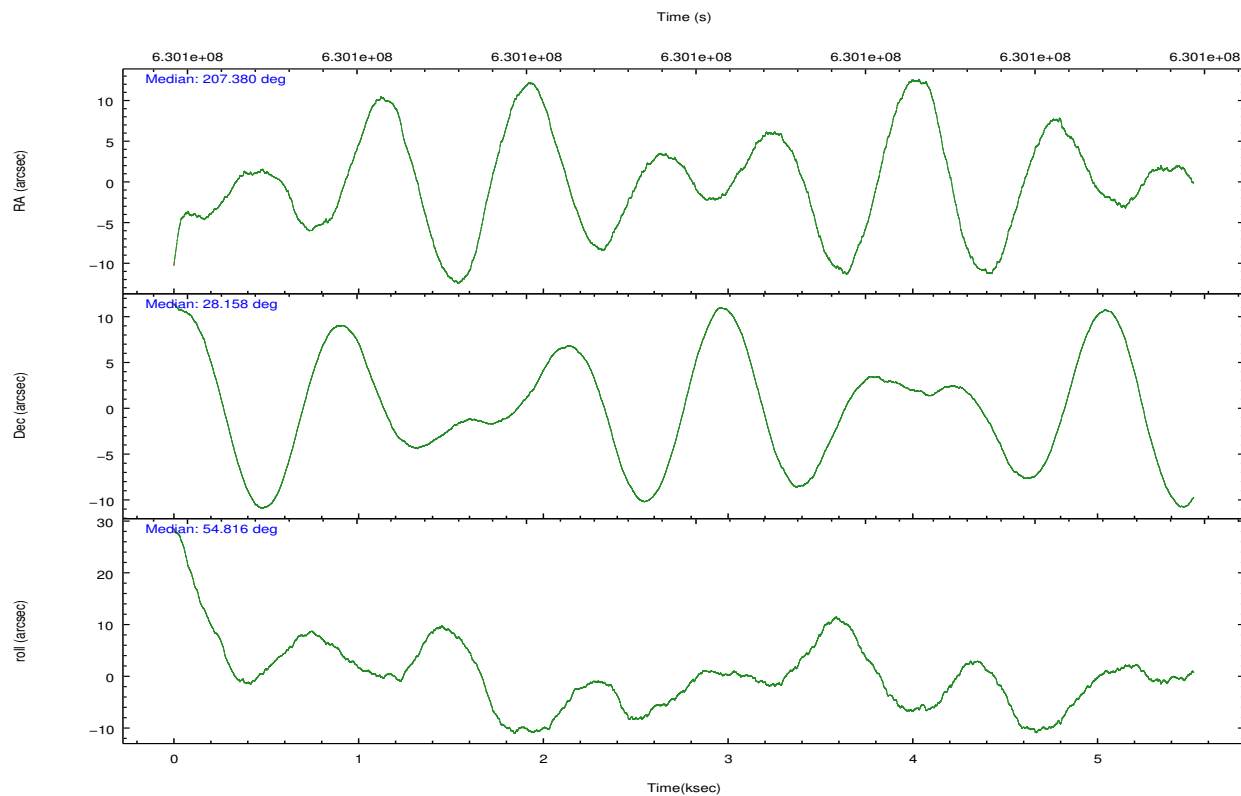
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1499	2063	1540	4077	1375
	4%	6%	4%	10%	3%
grade 1 events	17	22	22	53	13
	0%	0%	0%	0%	0%
grade 2 events	1045	1296	1055	1216	977
	3%	3%	2%	3%	2%
grade 3 events	397	460	403	498	431
	1%	1%	1%	1%	1%
grade 4 events	395	441	398	487	397
	1%	1%	1%	1%	1%
grade 5 events	1629	1716	1441	1825	1759
	4%	5%	3%	4%	4%
grade 6 events	885	1062	751	902	922
	2%	3%	2%	2%	2%
grade 7 events	28105	27260	31481	30027	31237
	82%	79%	84%	76%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.376936	207.3795954599572	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.130763	28.15825974813313	Alternating exposures requested	N	N
[deg] Pointing Roll	54.619512	54.82694090934229	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.842463	-225.8433433320239			
[mm] SIM translation stage offset	-7.75	-7.749109670905796			
[s] Observation start time (MET)	630098689.184000	630097566.8900501			
Observation start date	2017-12-19T19:23:40	2017-12-19T19:06:06			
[s] Observation end time (MET)	630103689.184000	630104994.04048			
Observation end date	2017-12-19T20:47:00	2017-12-19T21:09:54			
Read mode	TIMED	TIMED			

2.3 Aspect



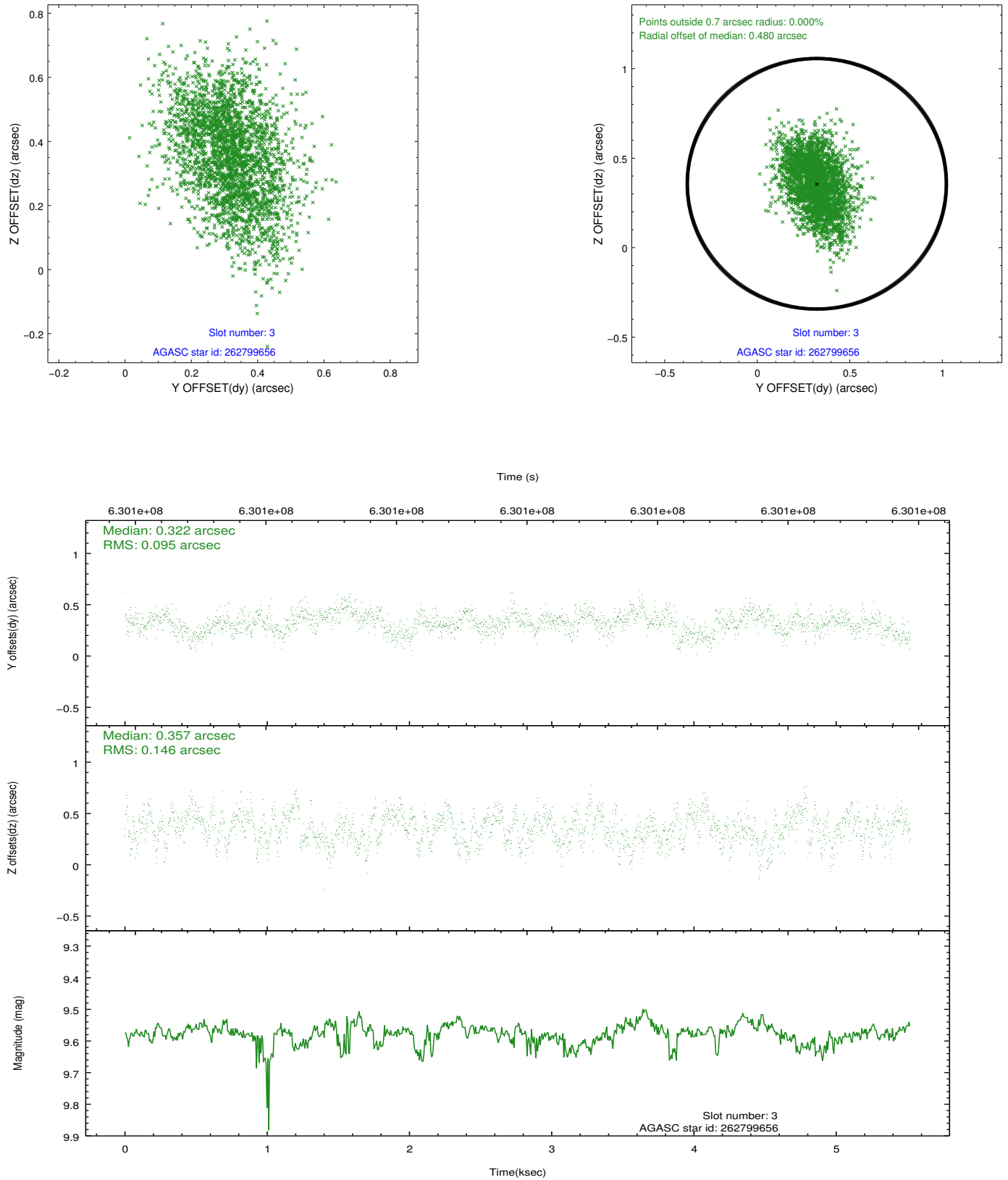


Slot Statistics

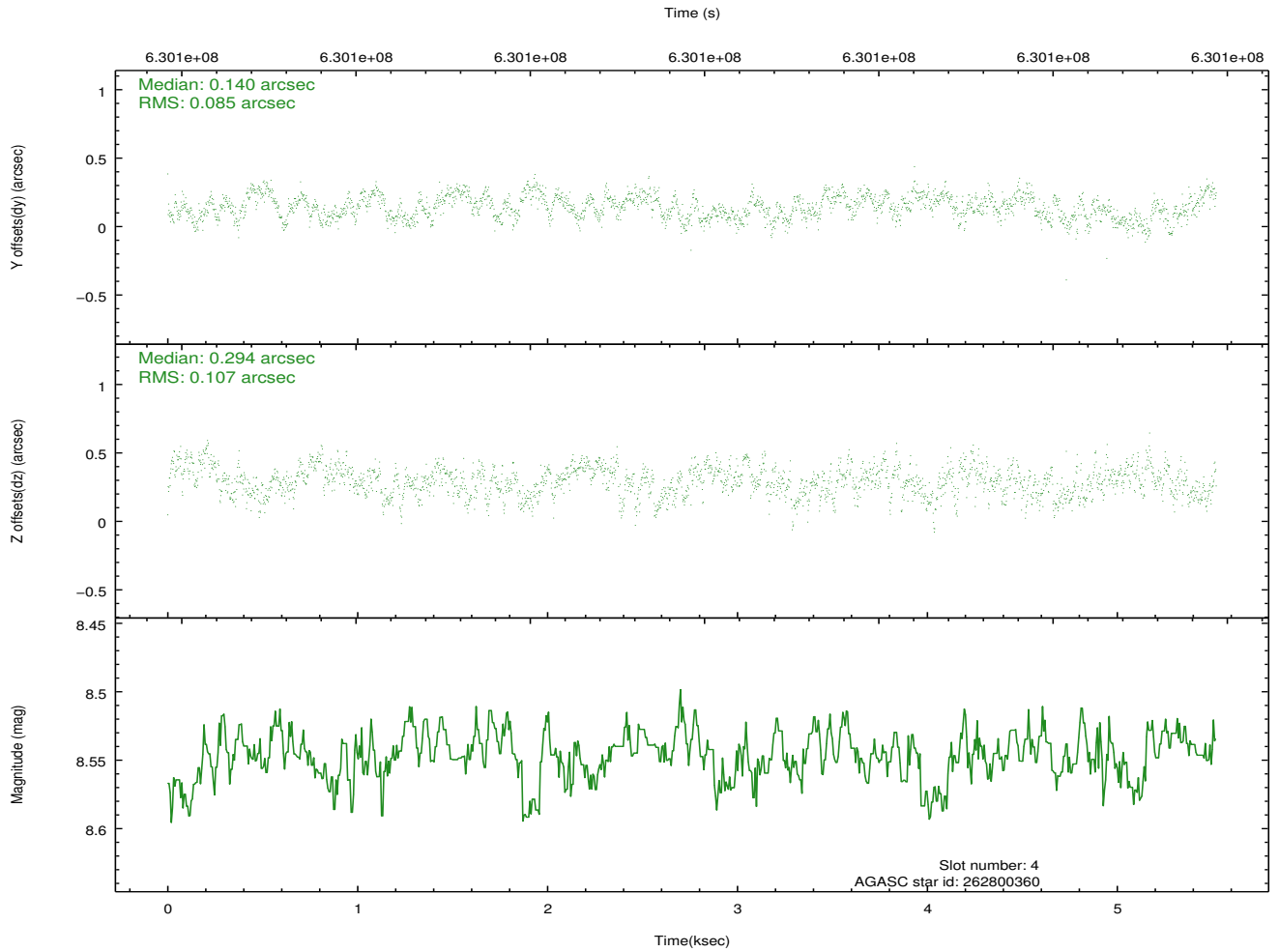
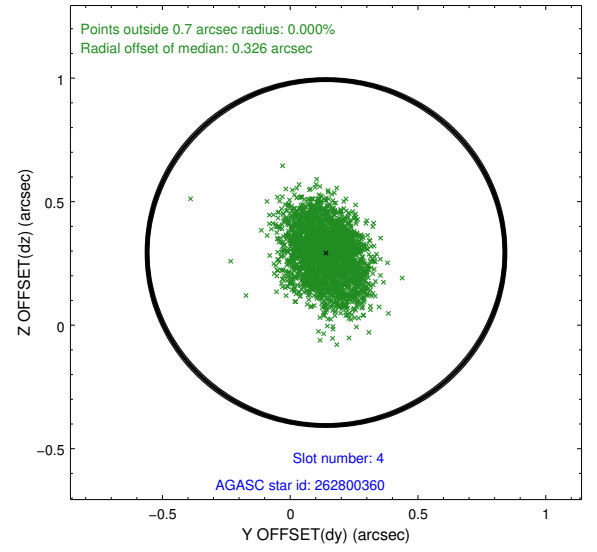
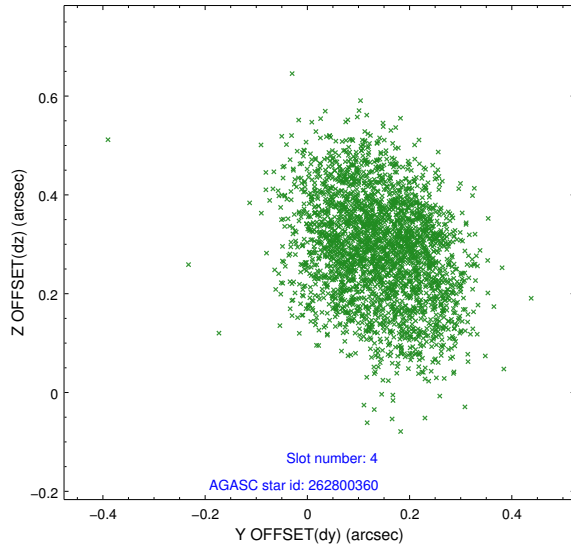
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	1347	0.117	-0.072	0.015	0.024	0.000000	0.000000	923.54	-1005.27
1	FID		ACIS-I-2	7.11	1347	-0.421	-0.098	0.011	0.017	0.000000	0.000000	-770.89	-1011.43
2	FID		ACIS-I-4	7.07	1347	0.207	0.237	0.009	0.014	0.000000	0.000000	2142.52	895.19
3	GUIDE	used	262799656	9.58	2687	0.322	0.357	0.184	0.303	207.617982	27.536378	-1297.84	-1865.39
4	GUIDE	used	262800360	8.55	2693	0.140	0.294	0.147	0.229	207.437814	27.569136	-1535.50	-1329.37
5	GUIDE	used	262800472	8.55	2692	-0.032	-0.576	0.127	0.219	206.644898	27.942627	-1894.91	1508.85
6	GUIDE	used	262802080	9.91	2674	-0.182	-0.150	0.287	0.483	208.253374	28.111487	1562.59	-2302.40
7	GUIDE	used	262802104	8.80	2689	-0.248	0.081	0.187	0.320	208.223872	28.192957	1747.20	-2055.15

2.4 Star Slots

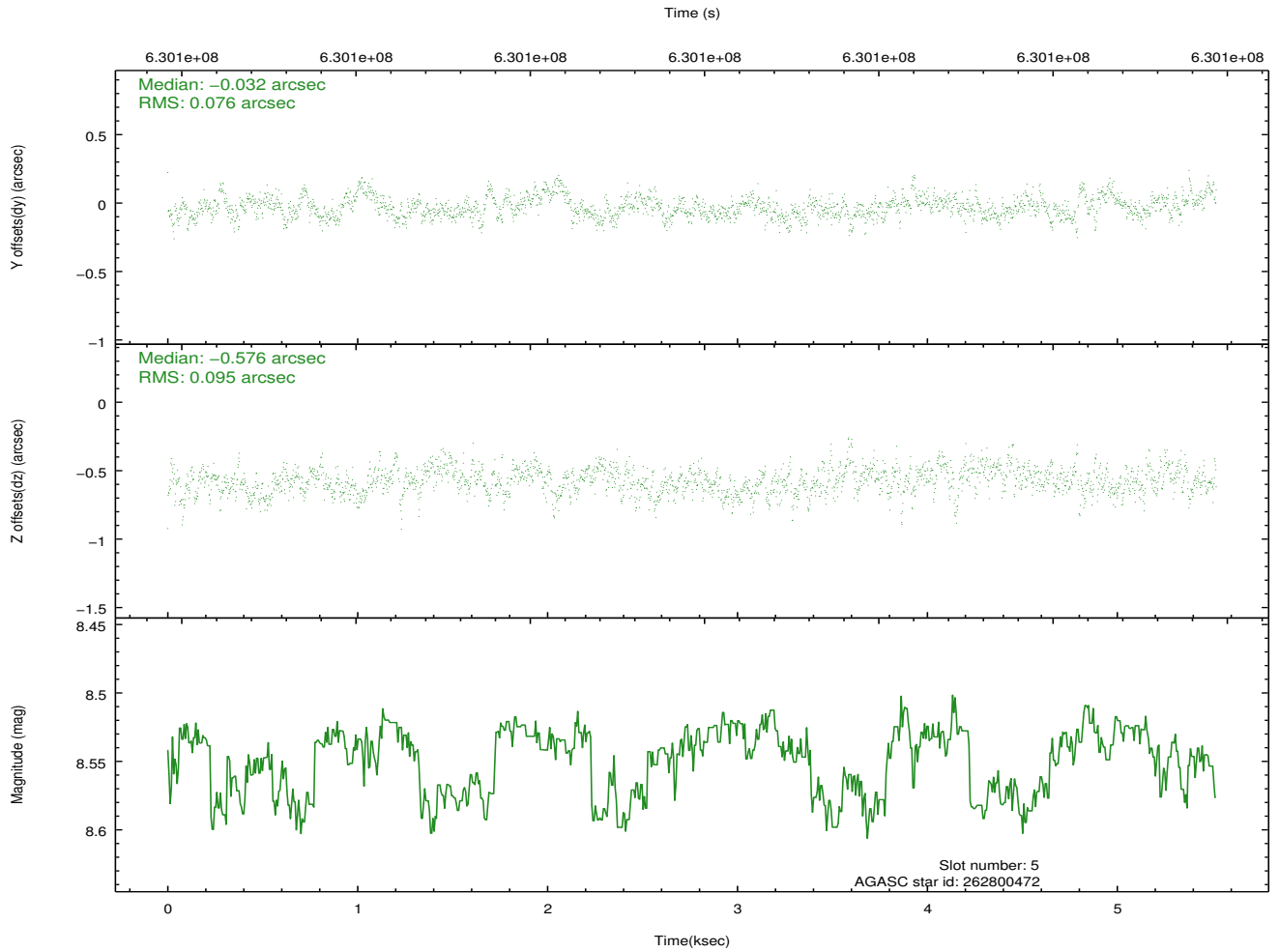
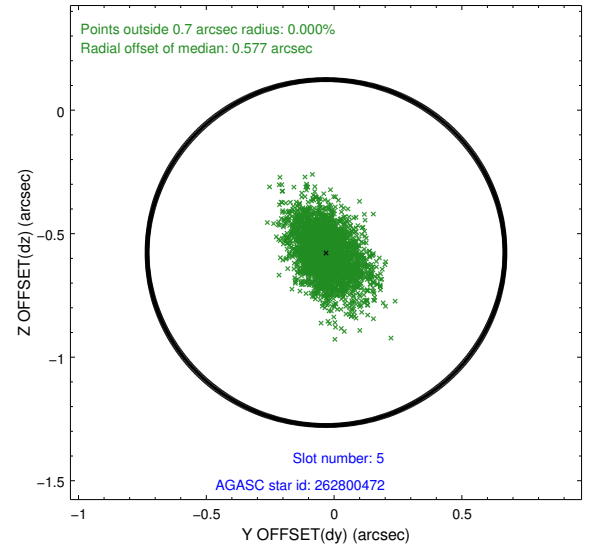
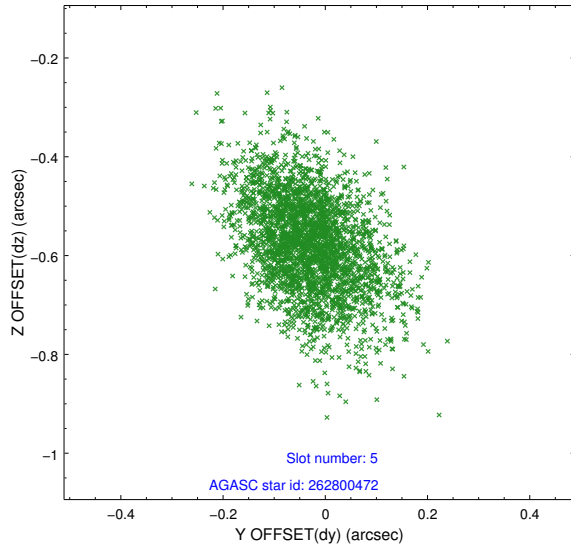
2.4.1 Slot 3



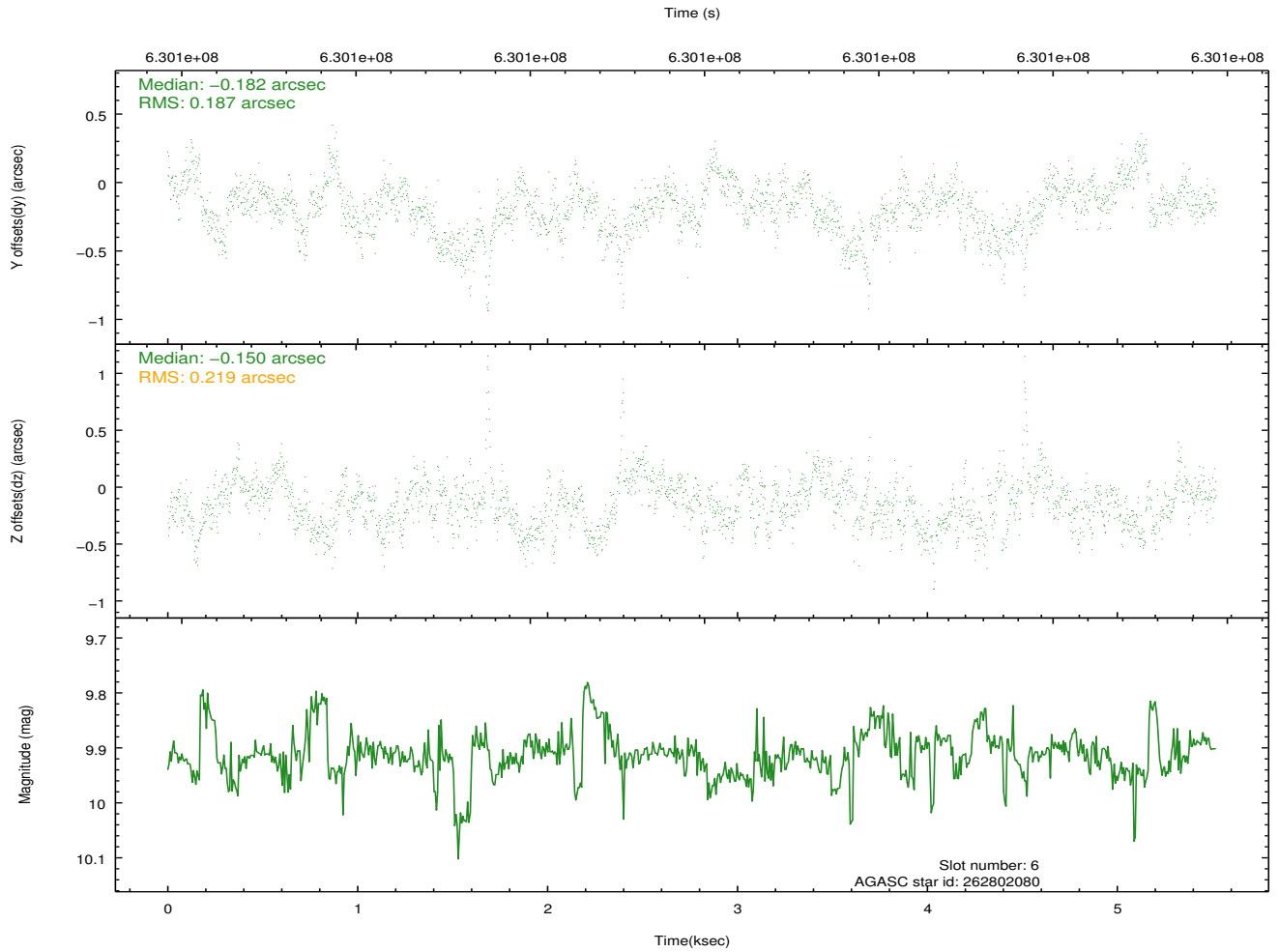
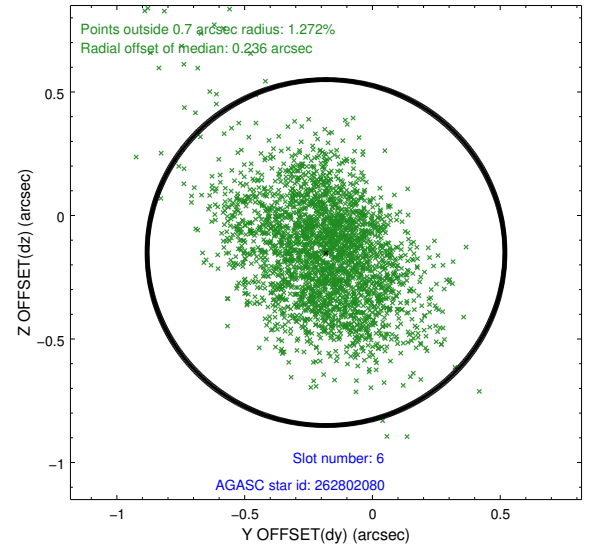
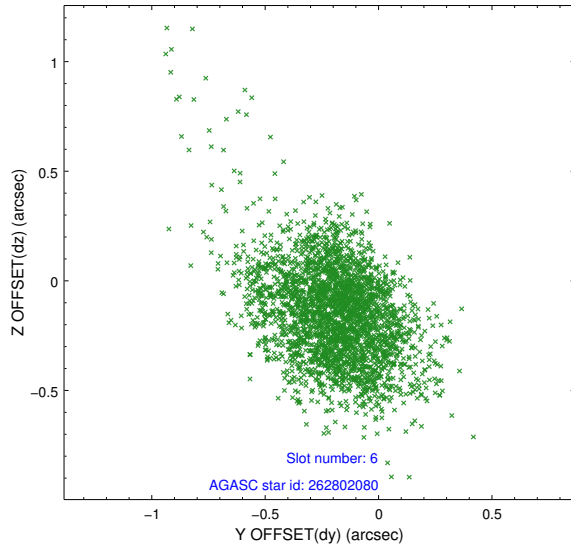
2.4.2 Slot 4



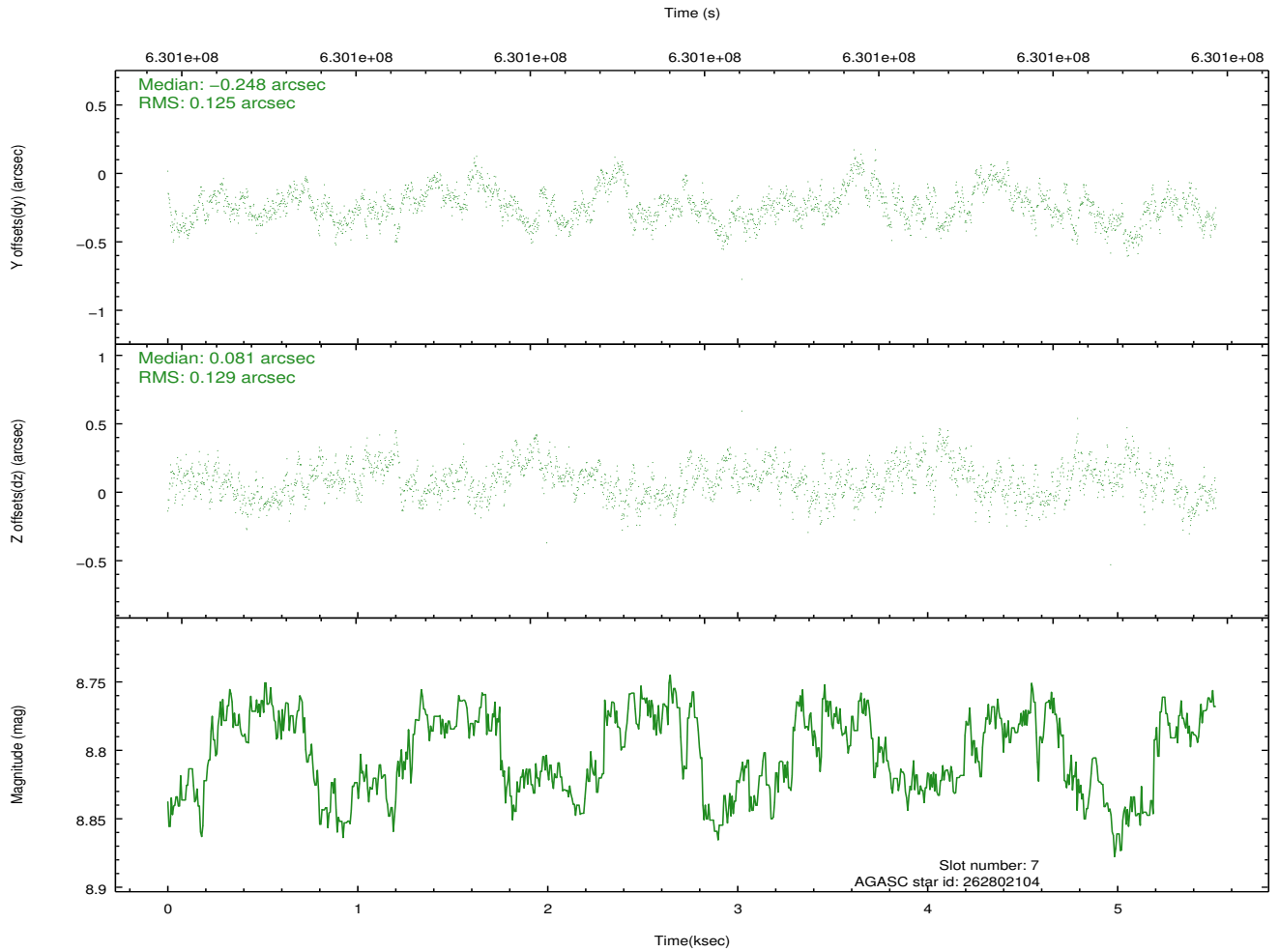
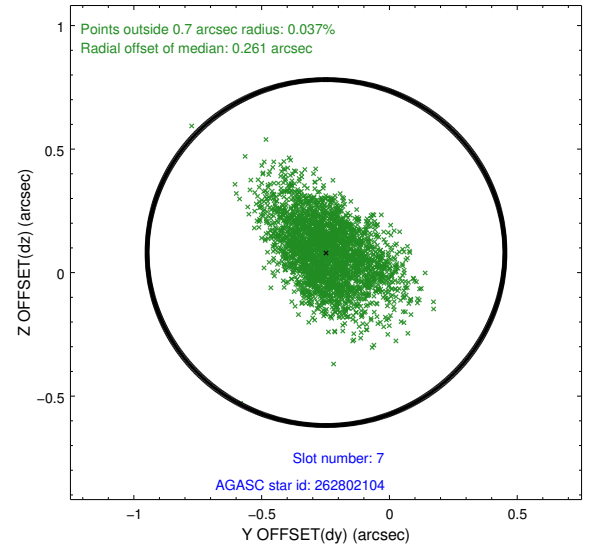
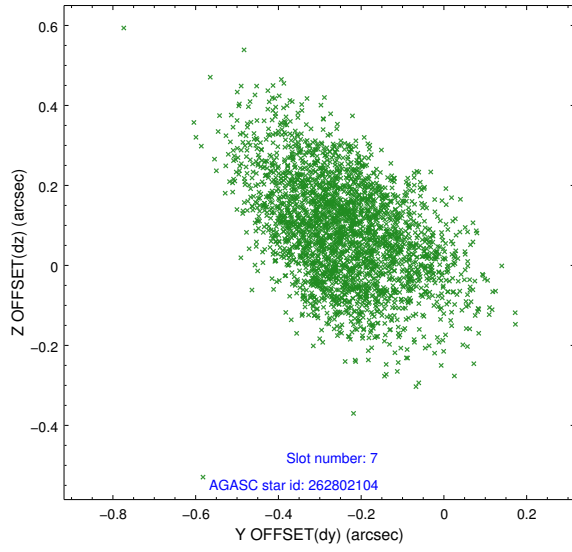
2.4.3 Slot 5



2.4.4 Slot 6

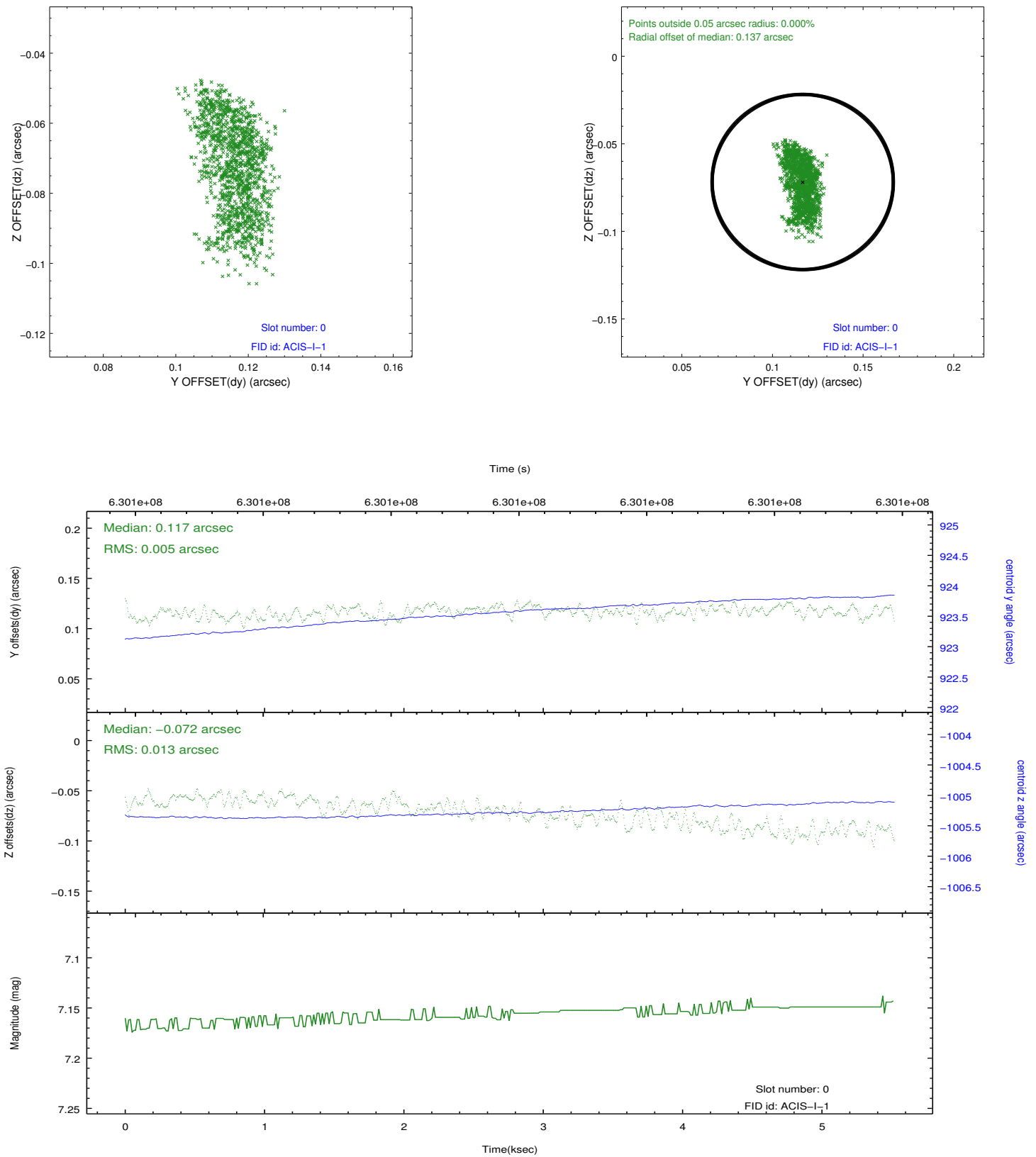


2.4.5 Slot 7

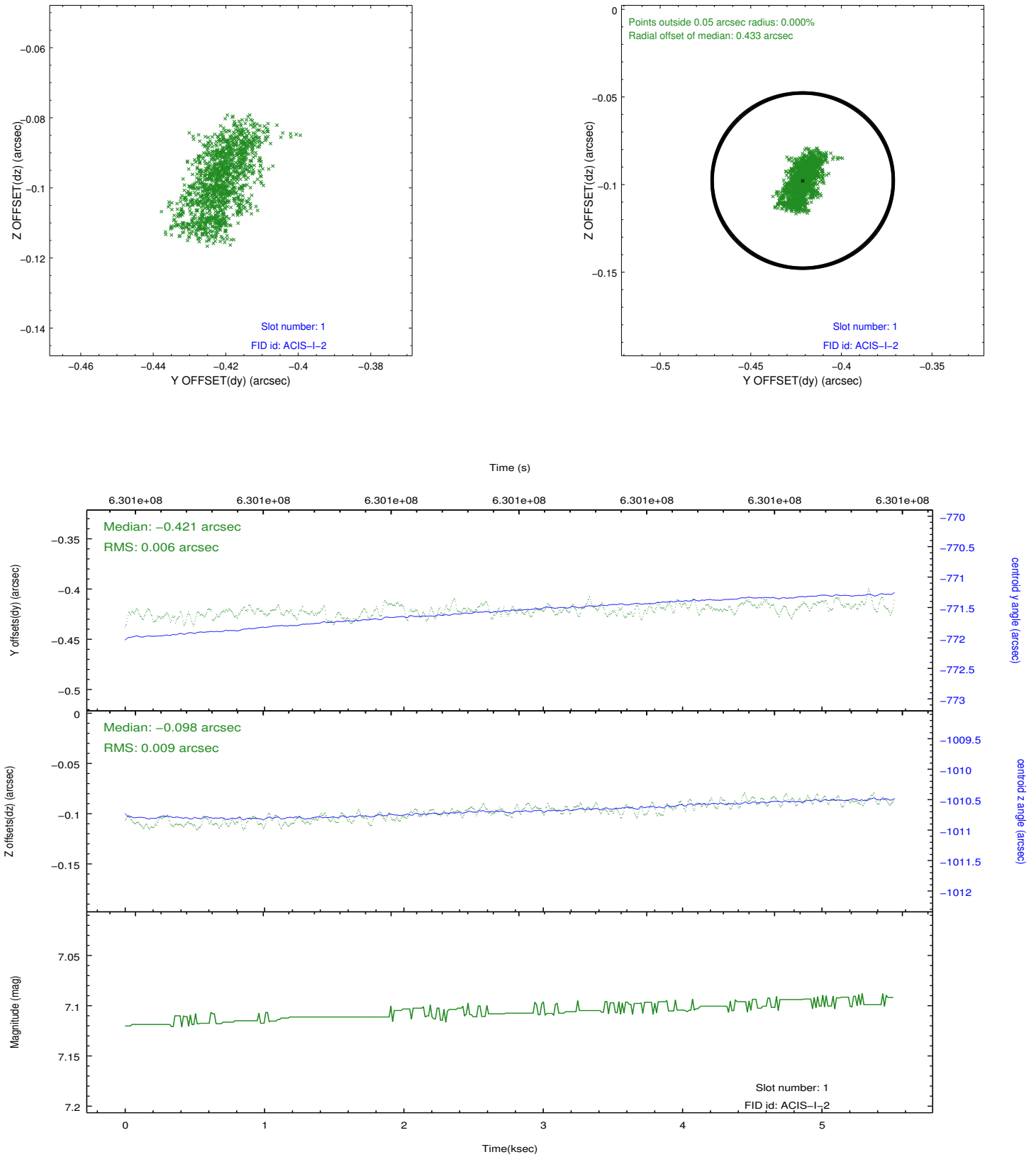


2.5 FID Slots

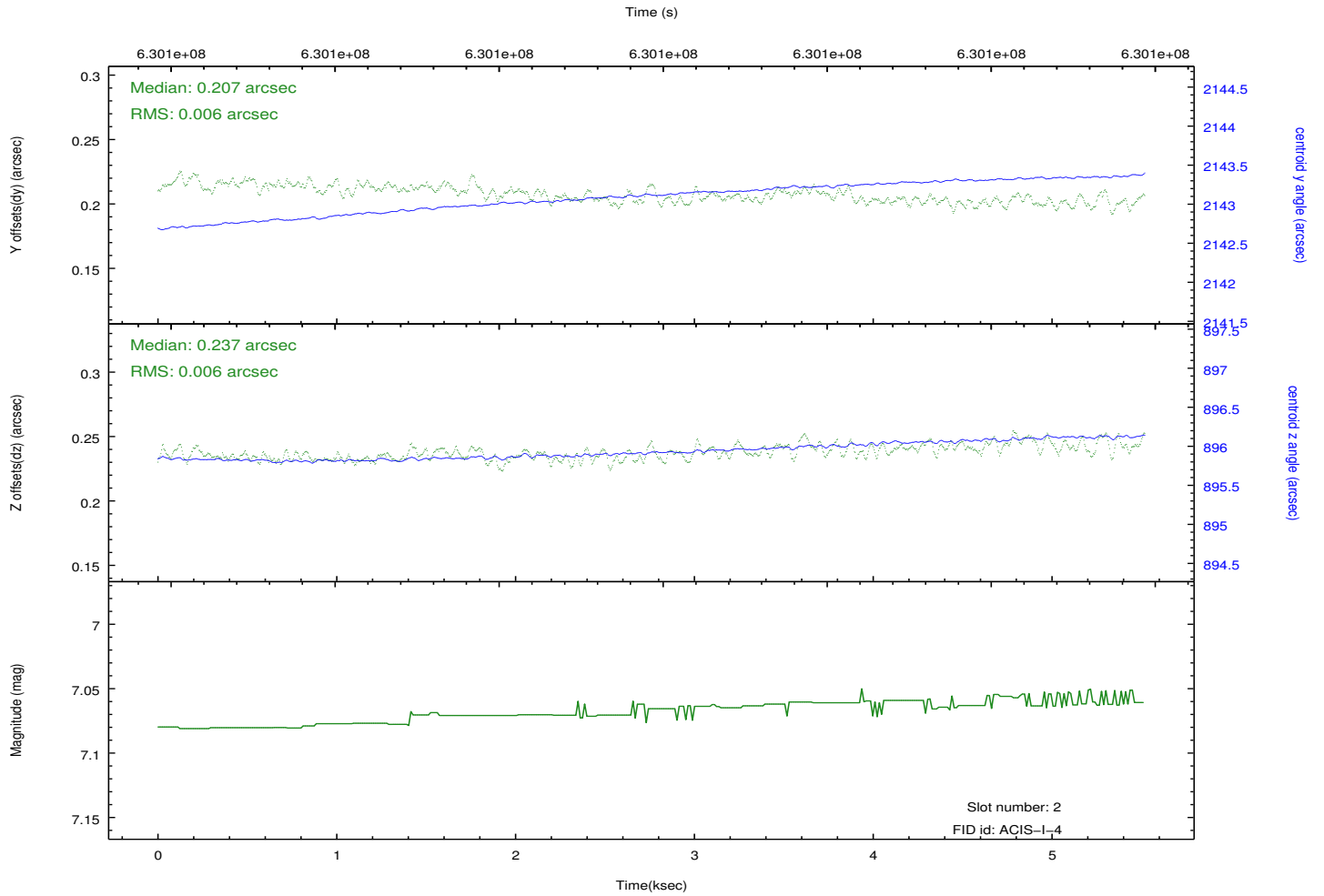
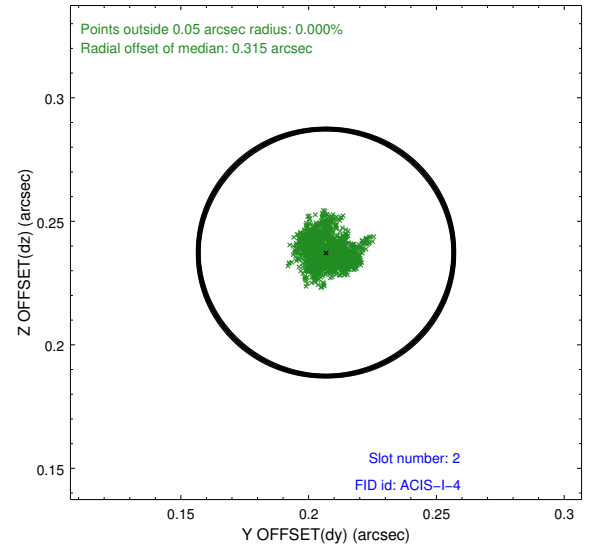
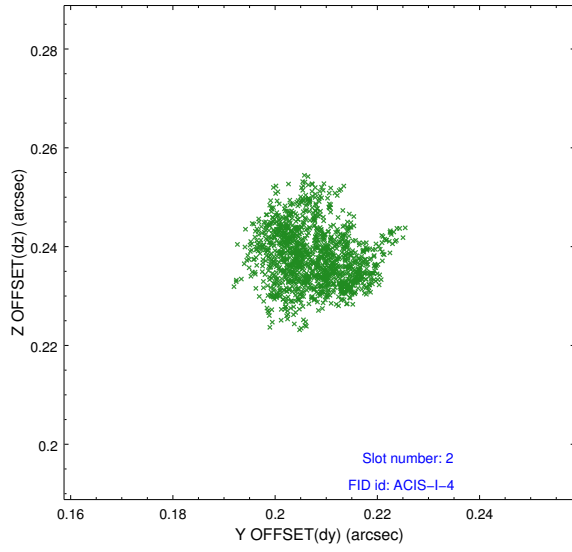
2.5.1 Slot 0



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)	2017.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0592000390291

A.2 Comments