

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21547 - L2 Version 1
Chandra X-Ray Center

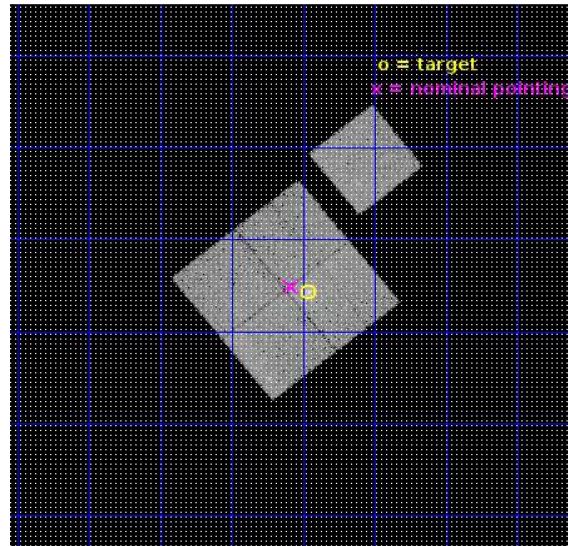
L2 Processing Date : Jan 17 2019

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1 Front

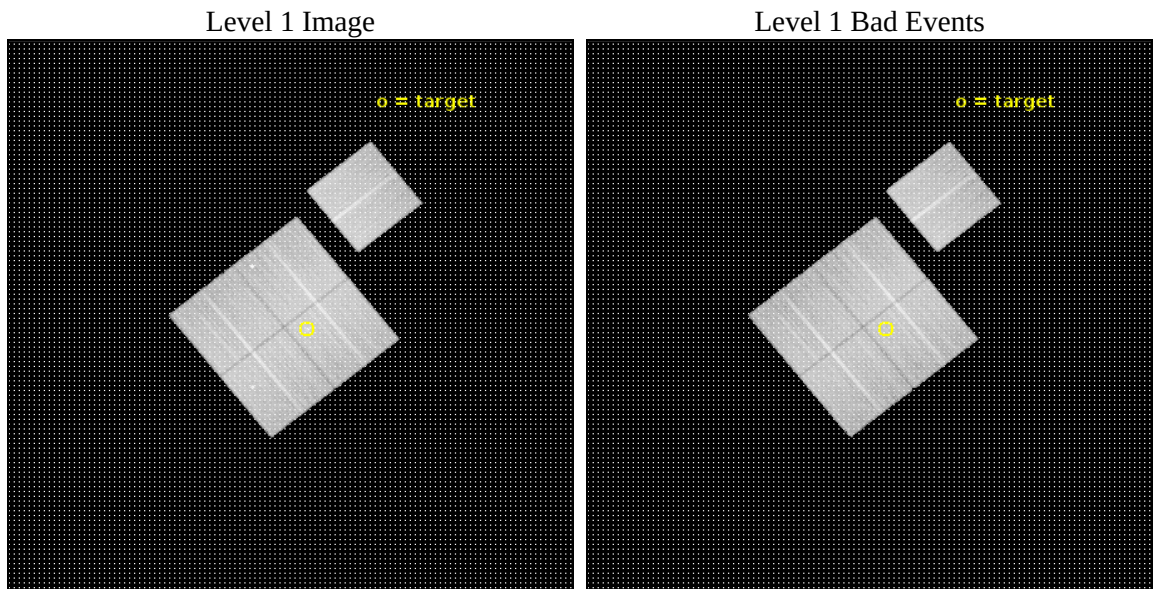
seq_num	801829	Sequence number
obs_id	21547	Observation id
title	A Unique Sample of Extreme-BCG Clusters at $0.2 < z < 0.6$	Proposal
observer	Michael McDonald	Principal investigator
object	CHIPS1011-0505	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.866667	Observer's specified target RA [deg]
dec_targ	-5.094583	Observer's specified target Dec [deg]
ra_nom	152.89590962434	Nominal RA [deg]
dec_nom	-5.0857363370661	Nominal Dec [deg]
roll_nom	51.321283898729	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31061.607229352	Sum of GTIs [s]
livetime	30655.764463678	Livetime [s]
ontime0	31064.625169635	Sum of GTIs [s]
ontime1	31064.666209579	Sum of GTIs [s]
ontime2	31064.707249641	Sum of GTIs [s]
ontime3	31061.607229352	Sum of GTIs [s]
ontime6	31064.584129572	Sum of GTIs [s]
l2events	114014	Number of level 2 events



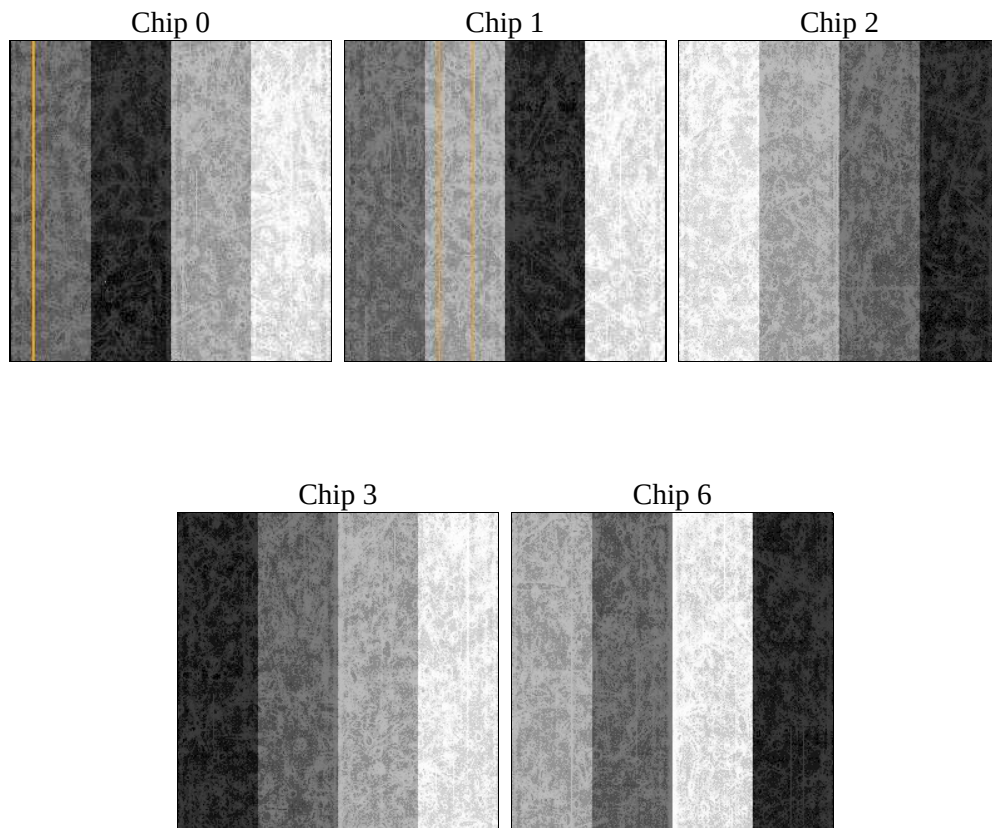
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	31061.607229352	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	31064.625169635	Sum of GTIs [s]
date	2019-01-18T02:14:11	Date and time of file creation	ontime1	31064.666209579	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31064.707249641	Sum of GTIs [s]
			ontime3	31061.607229352	Sum of GTIs [s]
			ontime6	31064.584129572	Sum of GTIs [s]
			l1events	1161038	Number of level 1 events

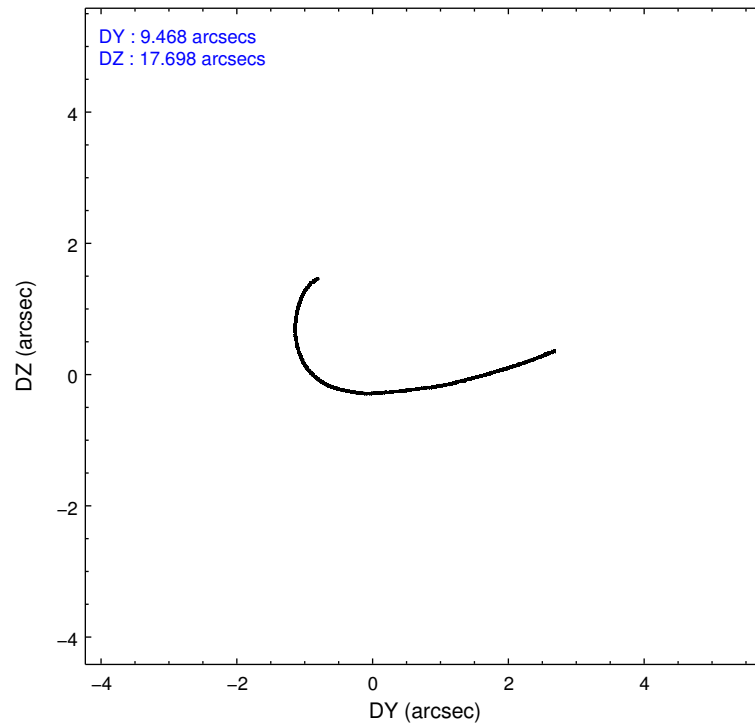
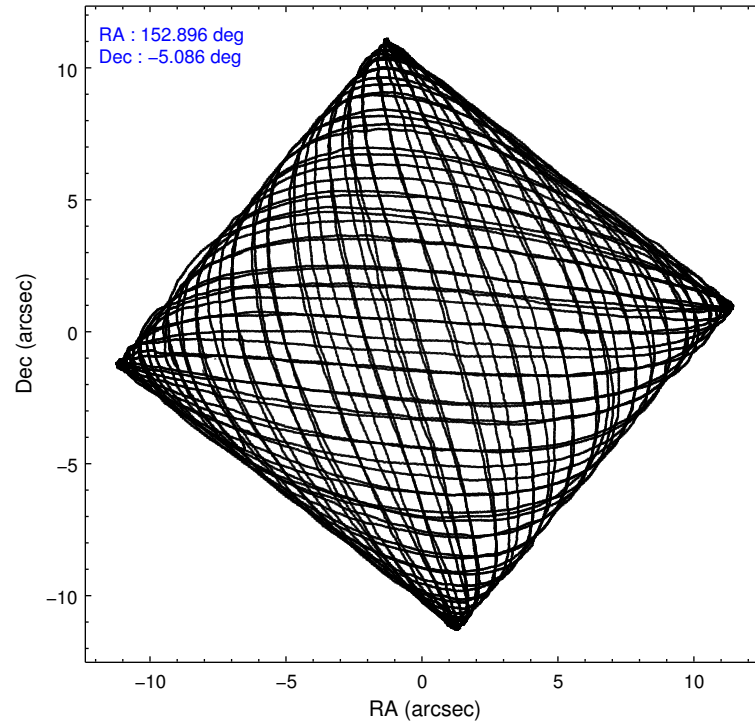
2.1.4 Events

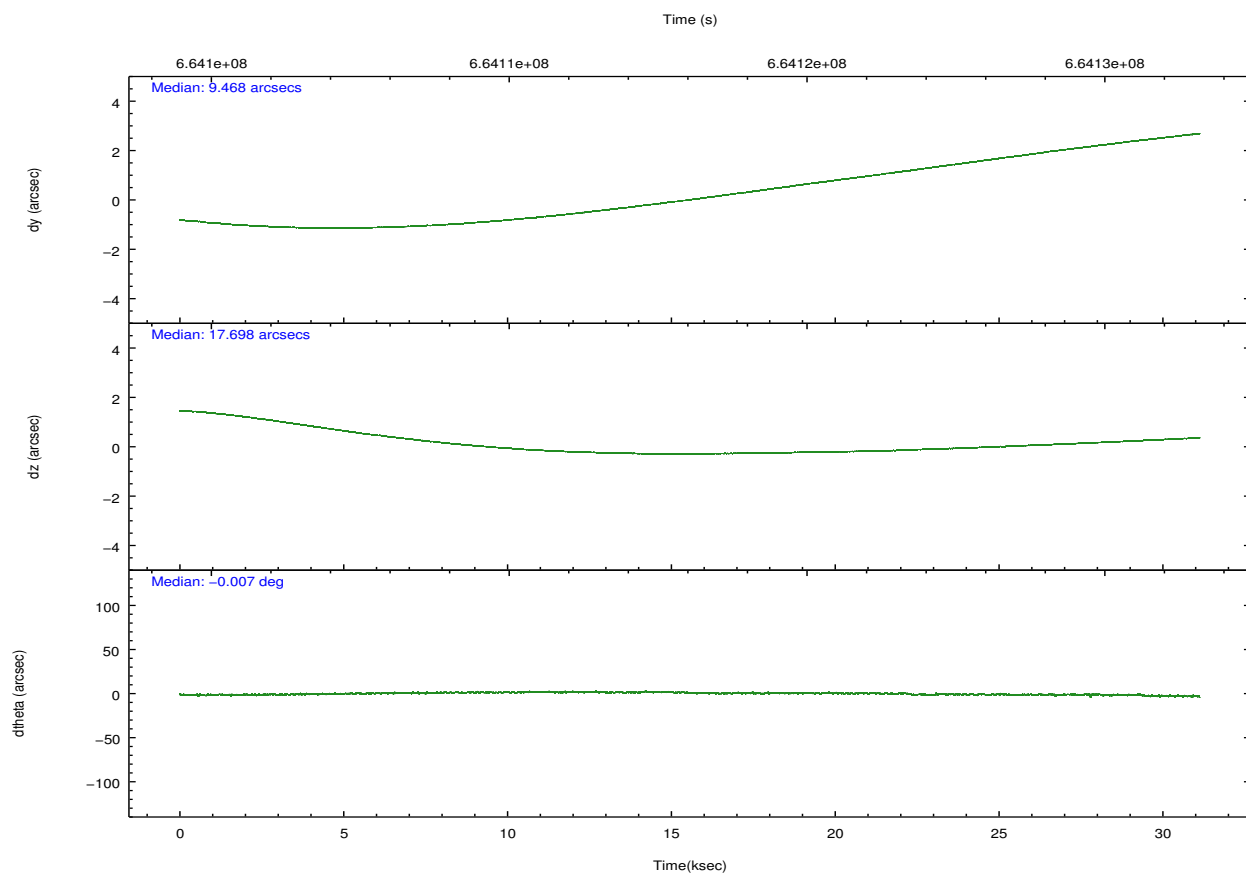
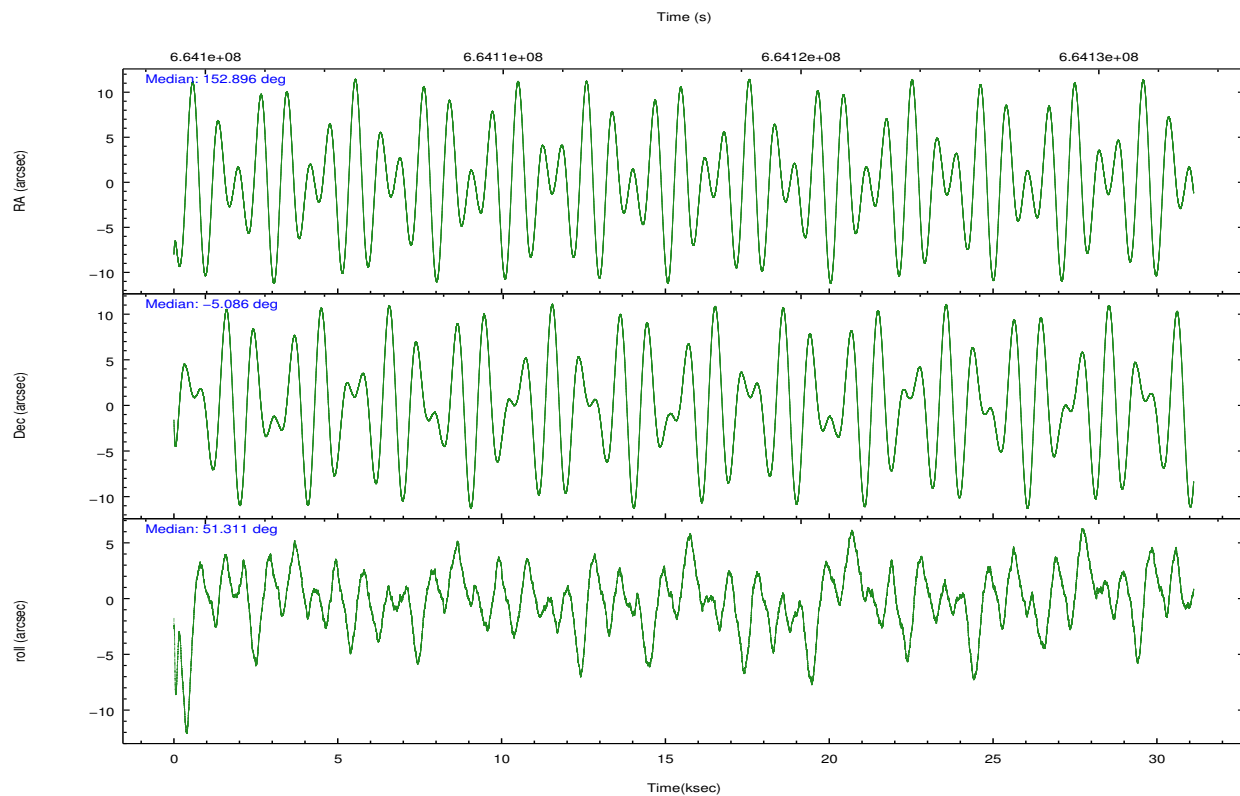
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	217058	227006	241246	236265	239463	grade 0 events	9033	10680	10934	11077	8494
rejected events	190464	197131	213859	208457	213244		4%	4%	4%	4%	3%
rejected %	87%	86%	88%	88%	89%	grade 1 events	124	128	139	145	98
							0%	0%	0%	0%	0%
						grade 2 events	6776	7157	6333	5876	6261
							3%	3%	2%	2%	2%
						grade 3 events	2637	2649	2517	2724	2631
							1%	1%	1%	1%	1%
						grade 4 events	2519	2656	2575	2637	2571
							1%	1%	1%	1%	1%
						grade 5 events	10087	10383	9523	11032	10797
							4%	4%	3%	4%	4%
						grade 6 events	5629	6735	5032	5497	6264
							2%	2%	2%	2%	2%
						grade 7 events	180253	186618	204193	197277	202347
							83%	82%	84%	83%	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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	152.891836	152.8959096243406	CCD I2 on	Y	Y
[deg] Pointing Dec	-5.113034	-5.085736337066106	CCD I3 on	Y	Y
[deg] Pointing Roll	51.112228	51.32128389872941	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	664100608.184000	664099363.54641	CCD S5 on	N	N
Observation start date	2019-01-17T08:22:19	2019-01-17T08:02:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	664131608.184000	664132504.87339	On-chip summing requested	N	N
Observation end date	2019-01-17T16:58:59	2019-01-17T17:15:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



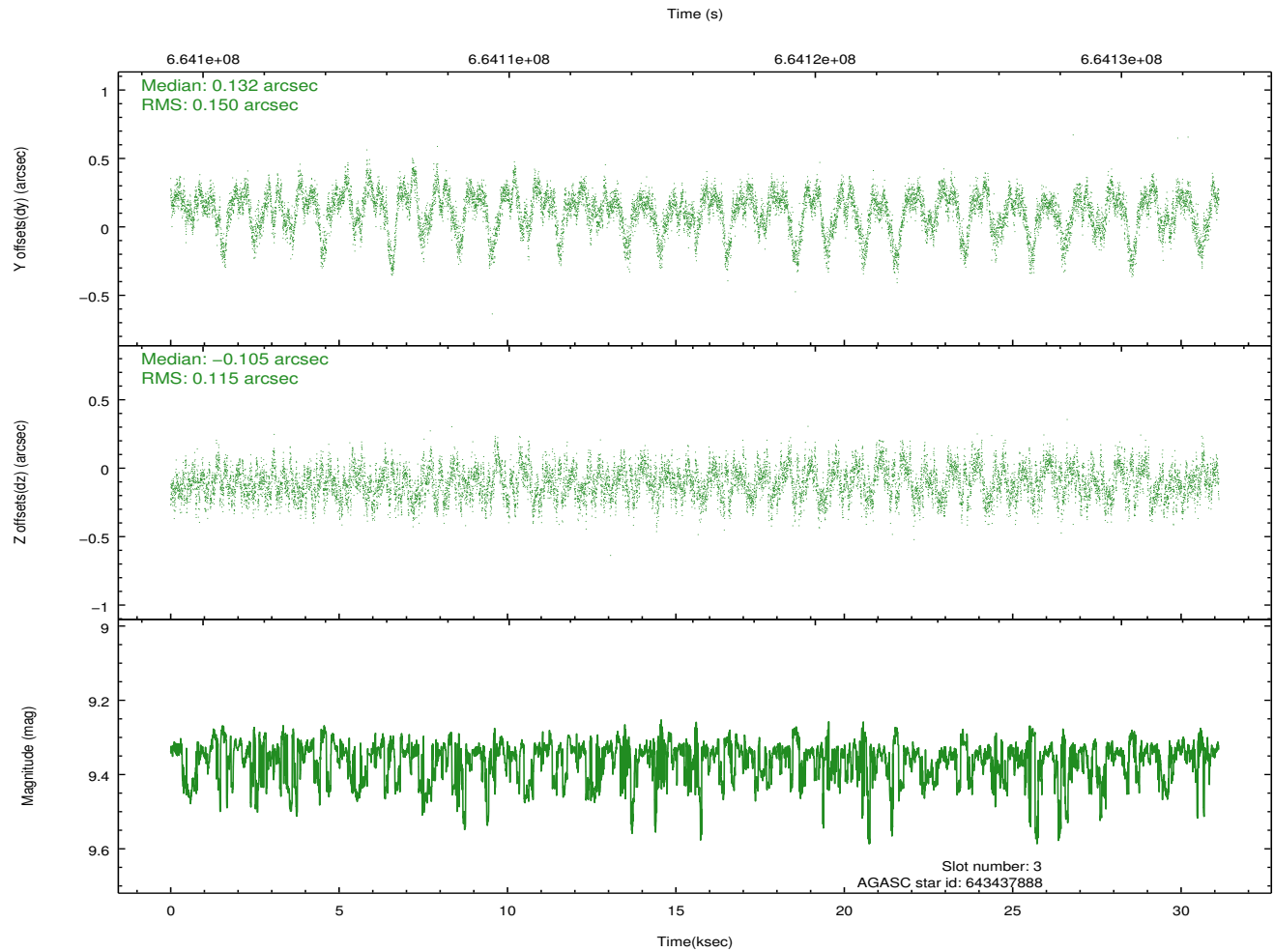
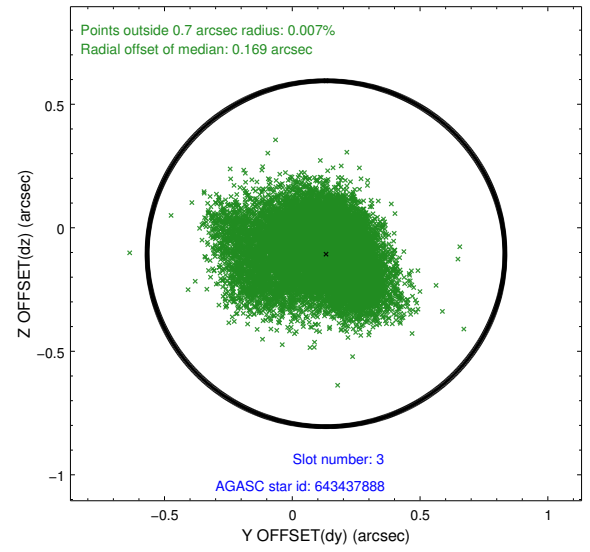
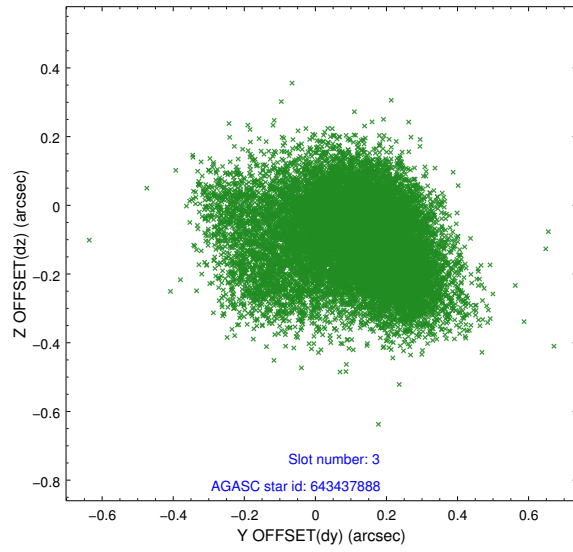


Slot Statistics

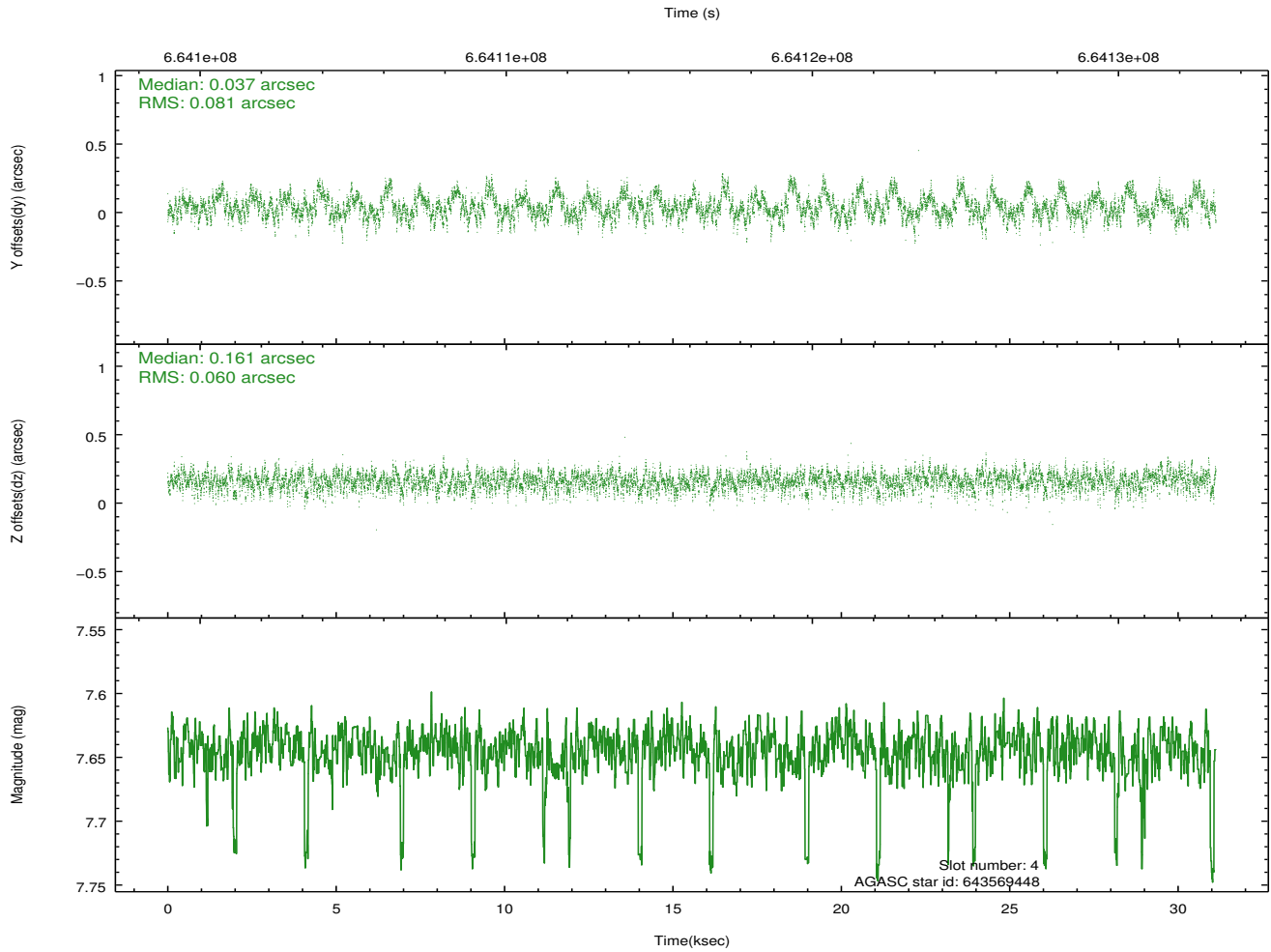
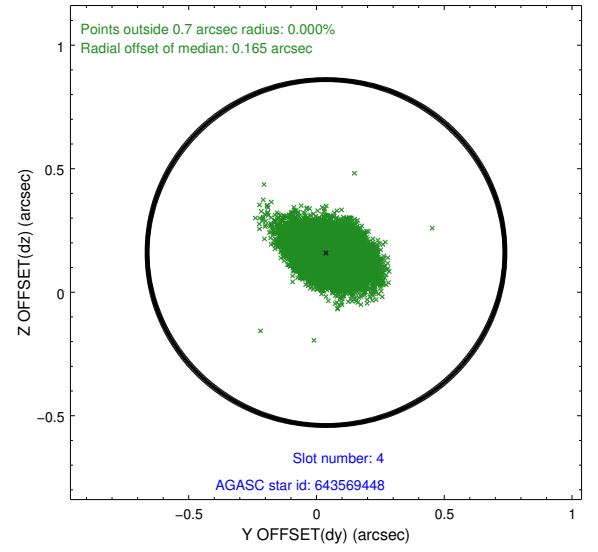
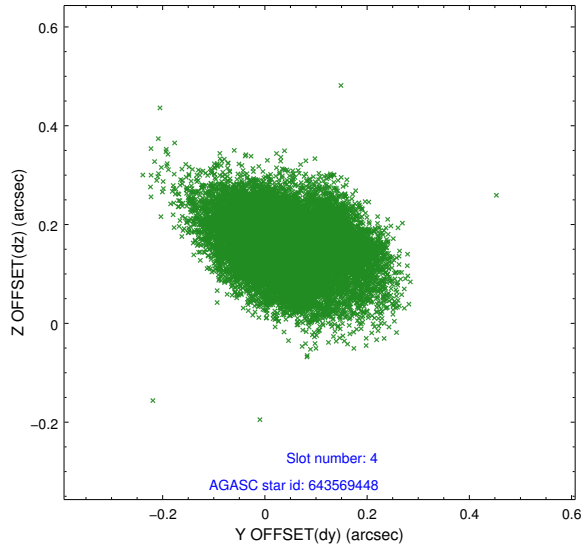
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	7590	1.000	0.090	-0.068	0.027	0.051	0.000000	0.000000	930.01	-841
1	FID		ACIS-I-5	7.21	7591	1.000	-0.443	0.023	0.019	0.028	0.000000	0.000000	-1818.75	1055
2	FID		ACIS-I-6	7.20	7590	1.000	0.257	0.123	0.031	0.062	0.000000	0.000000	395.45	1700
3	GUIDE	used	643437888	9.35	15163	1.000	0.132	-0.105	0.196	0.345	152.442372	-5.027138	-773.74	1449
4	GUIDE	used	643569448	7.64	15178	1.000	0.037	0.161	0.107	0.176	153.380406	-5.087356	1170.50	-1304
5	GUIDE	used	643569752	8.93	15166	1.000	0.031	0.257	0.132	0.228	153.070368	-5.063175	542.38	-385
6	GUIDE	used	643572304	7.87	15170	1.000	0.089	0.230	0.100	0.167	153.443177	-5.219786	941.75	-1779
7	GUIDE	used	643175304	9.18	15167	1.000	-0.256	-0.535	0.167	0.321	152.848409	-4.223694	2391.80	2131

2.4 Star Slots

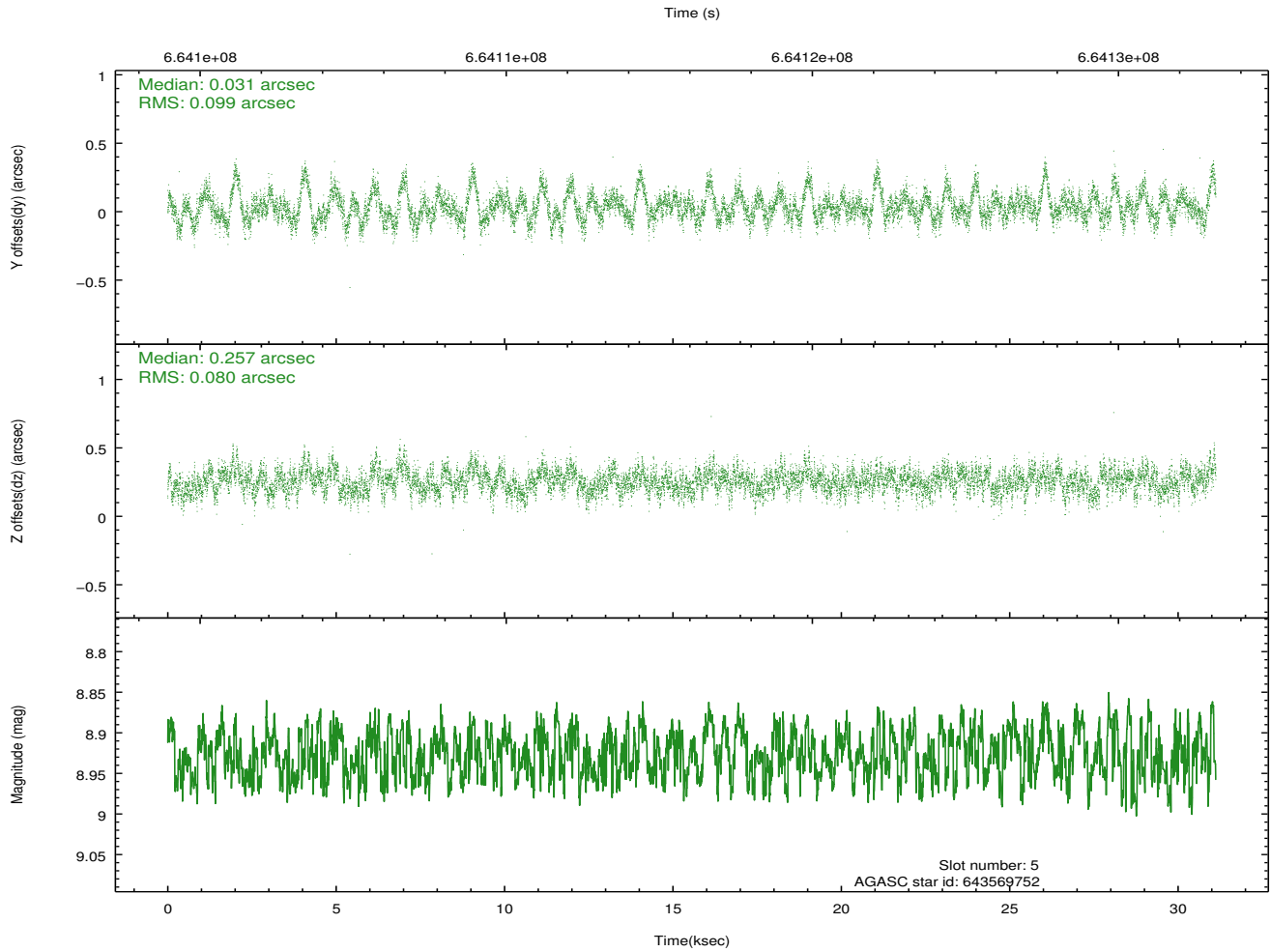
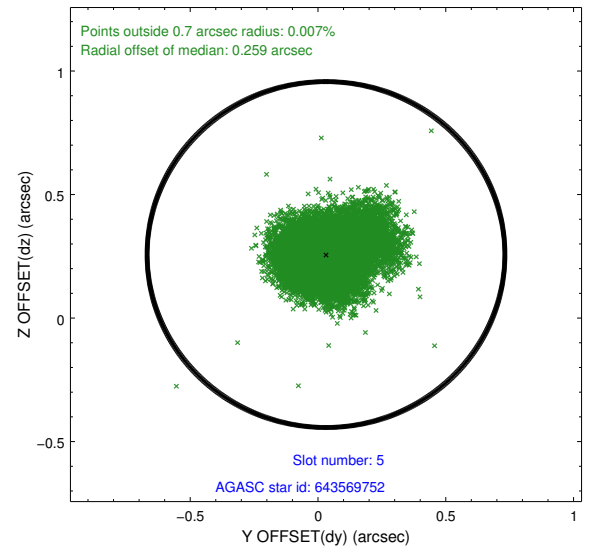
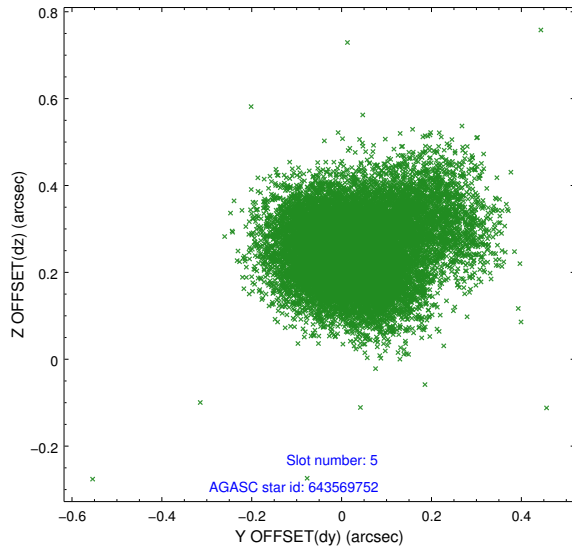
2.4.1 Slot 3



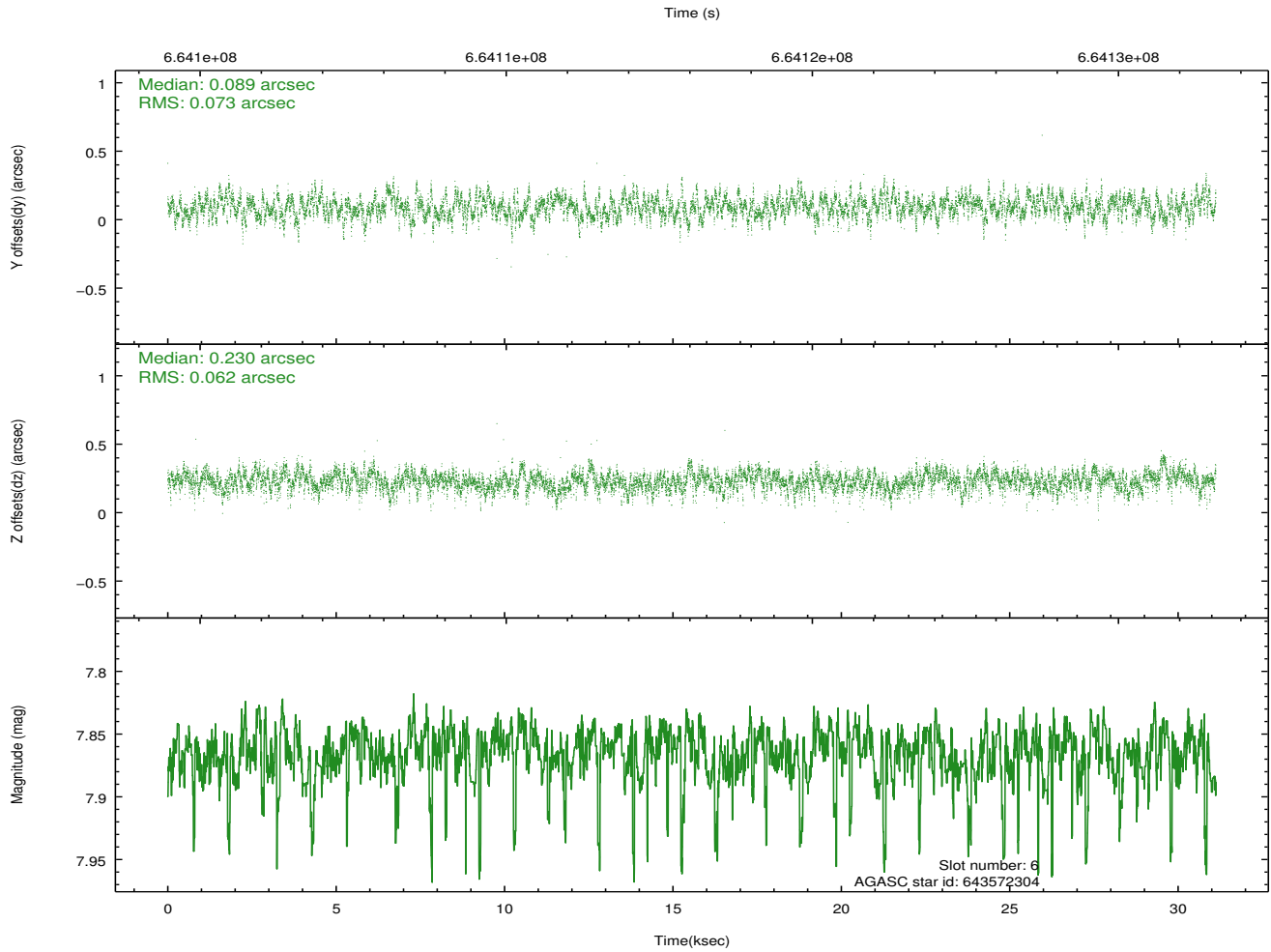
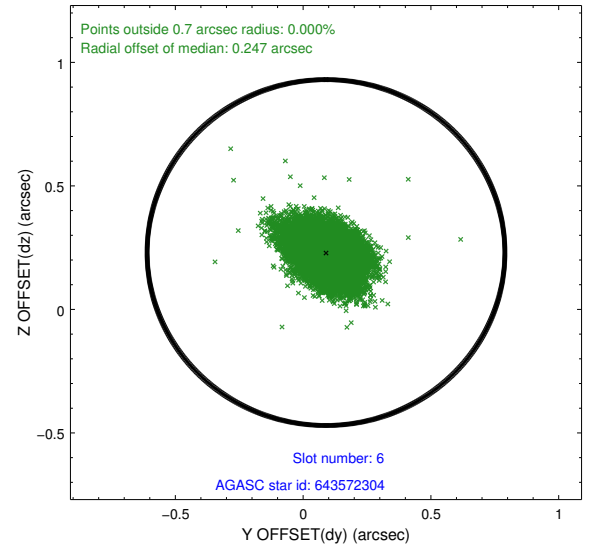
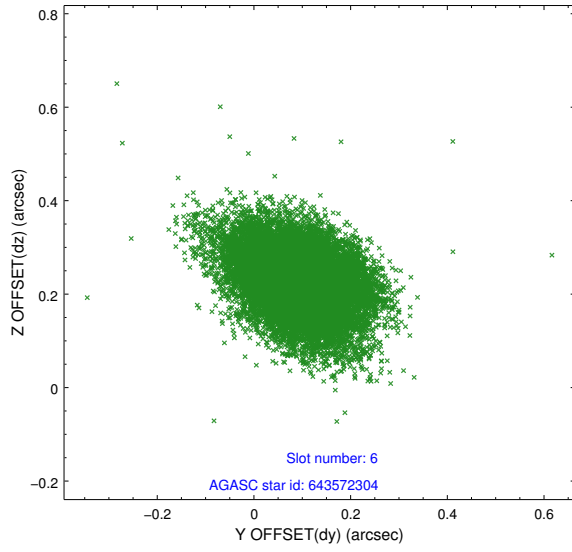
2.4.2 Slot 4



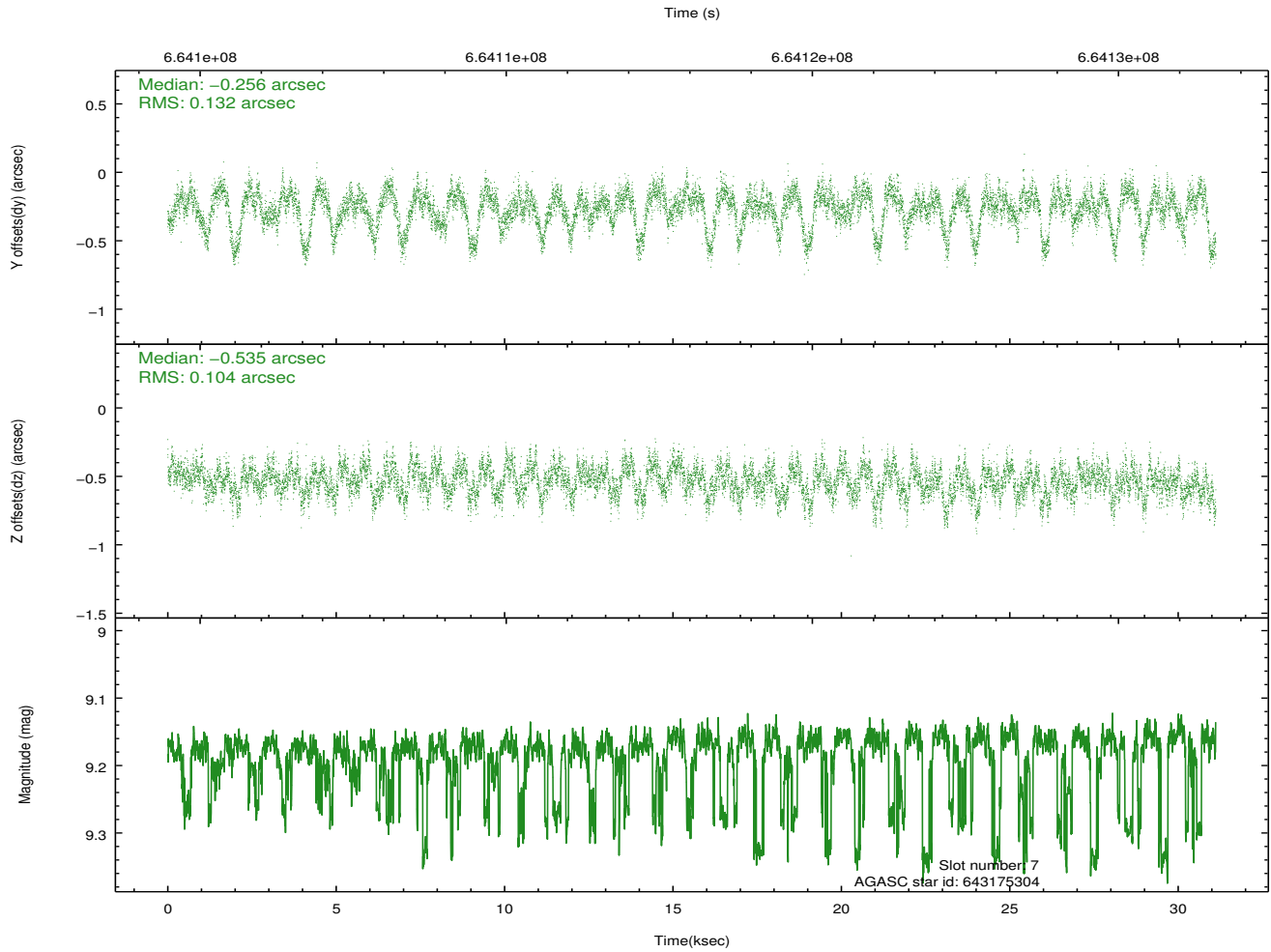
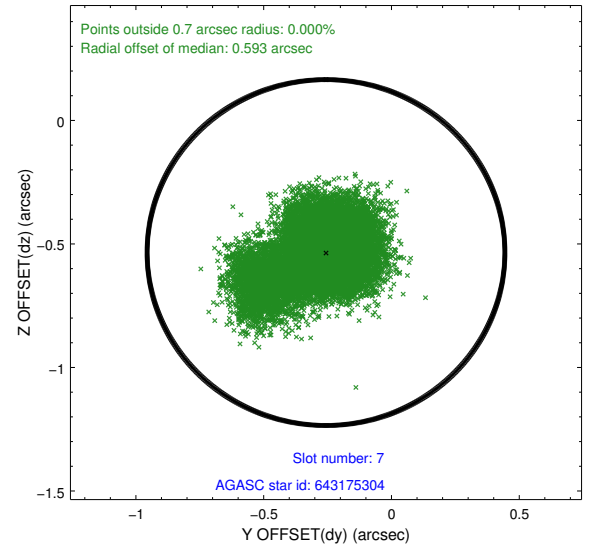
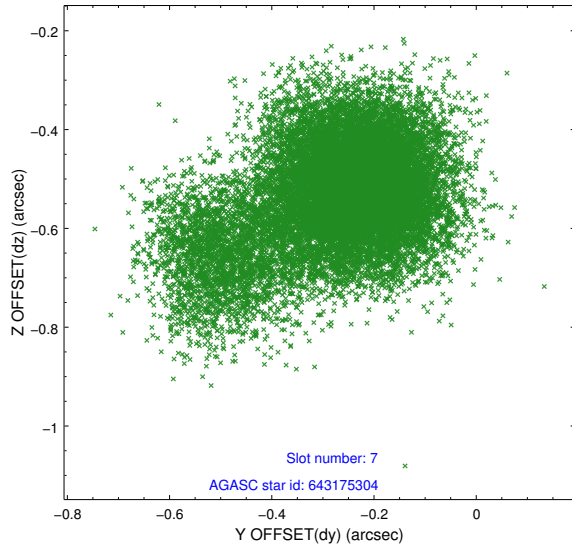
2.4.3 Slot 5



2.4.4 Slot 6

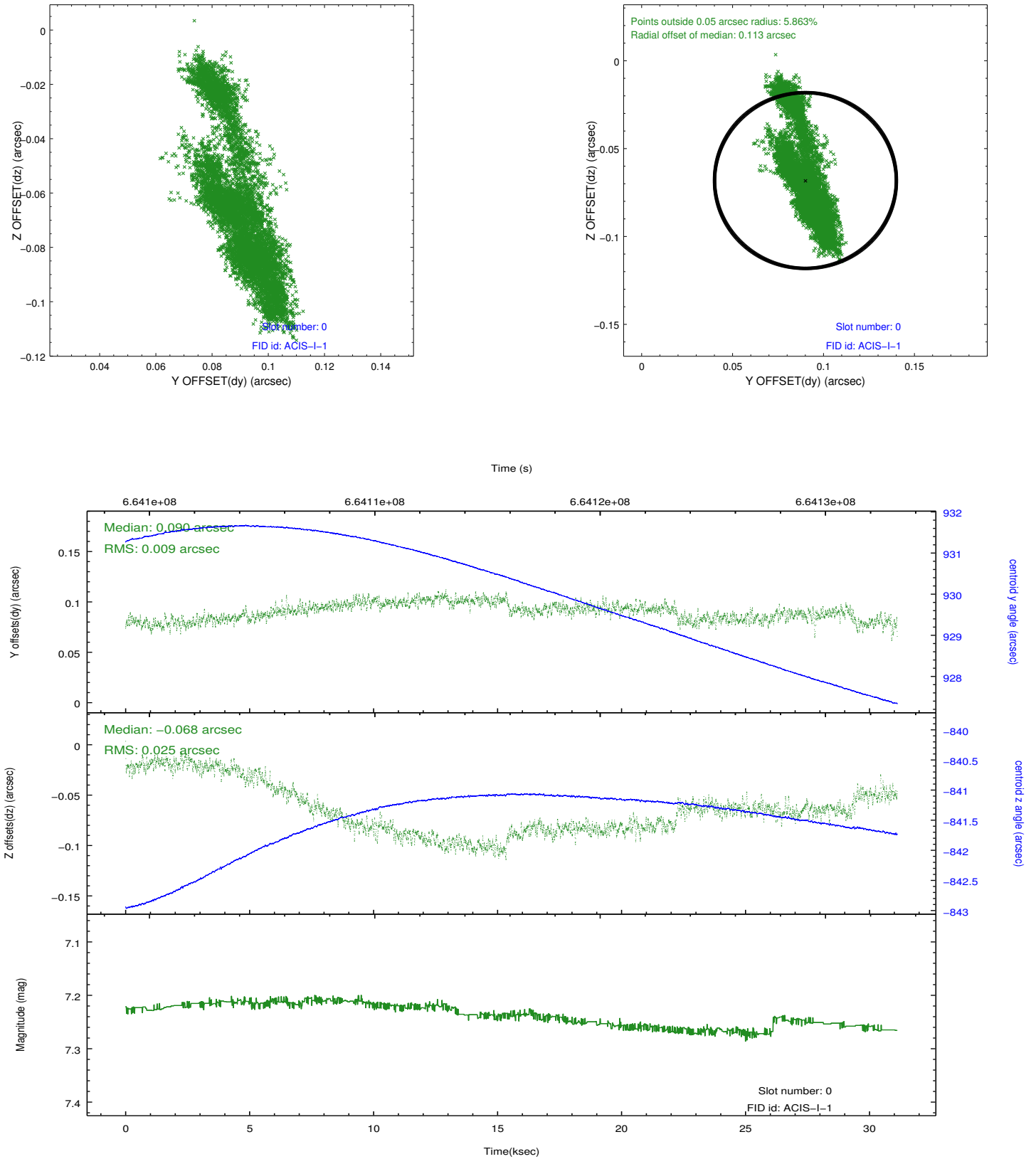


2.4.5 Slot 7

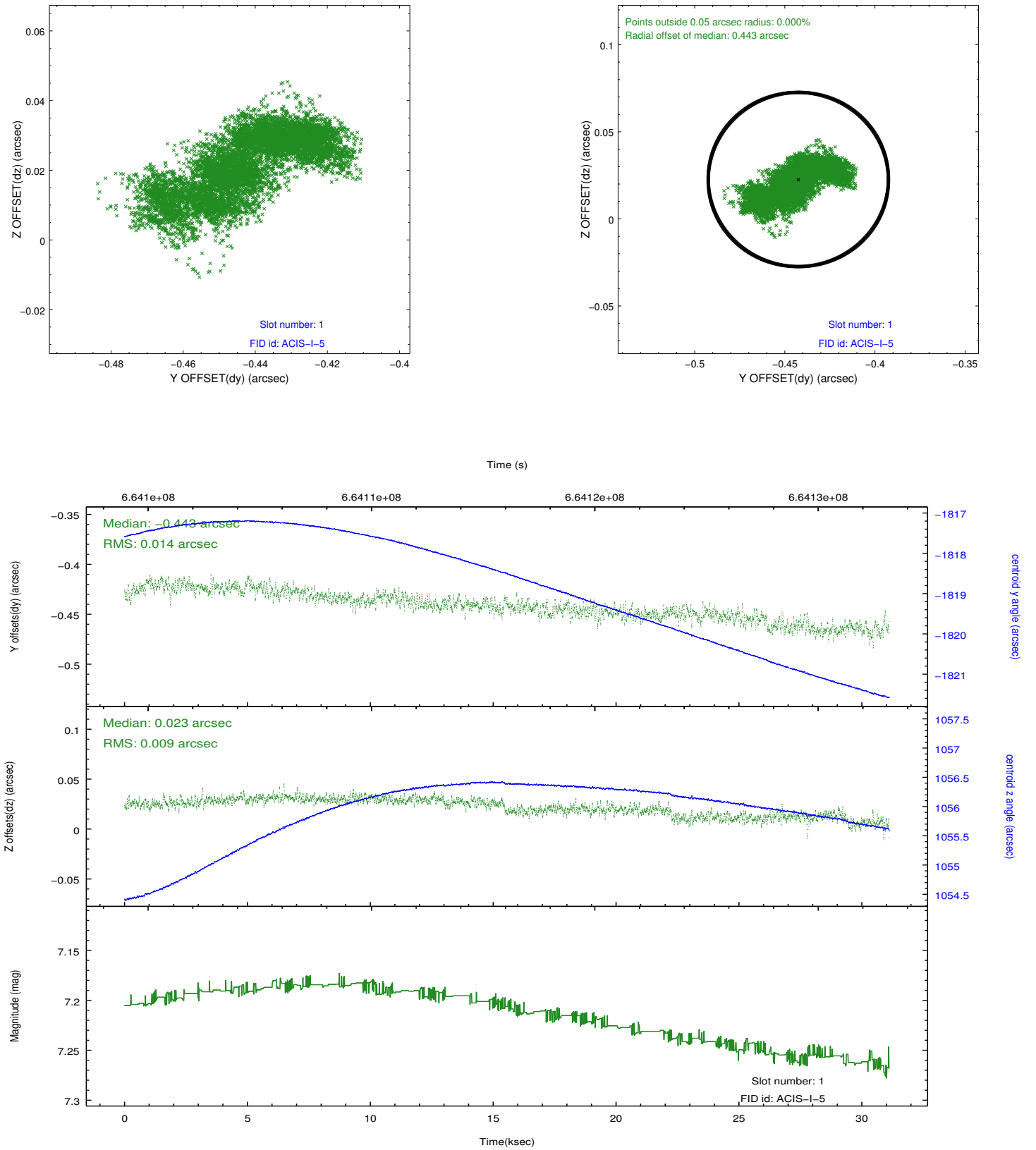


2.5 FID Slots

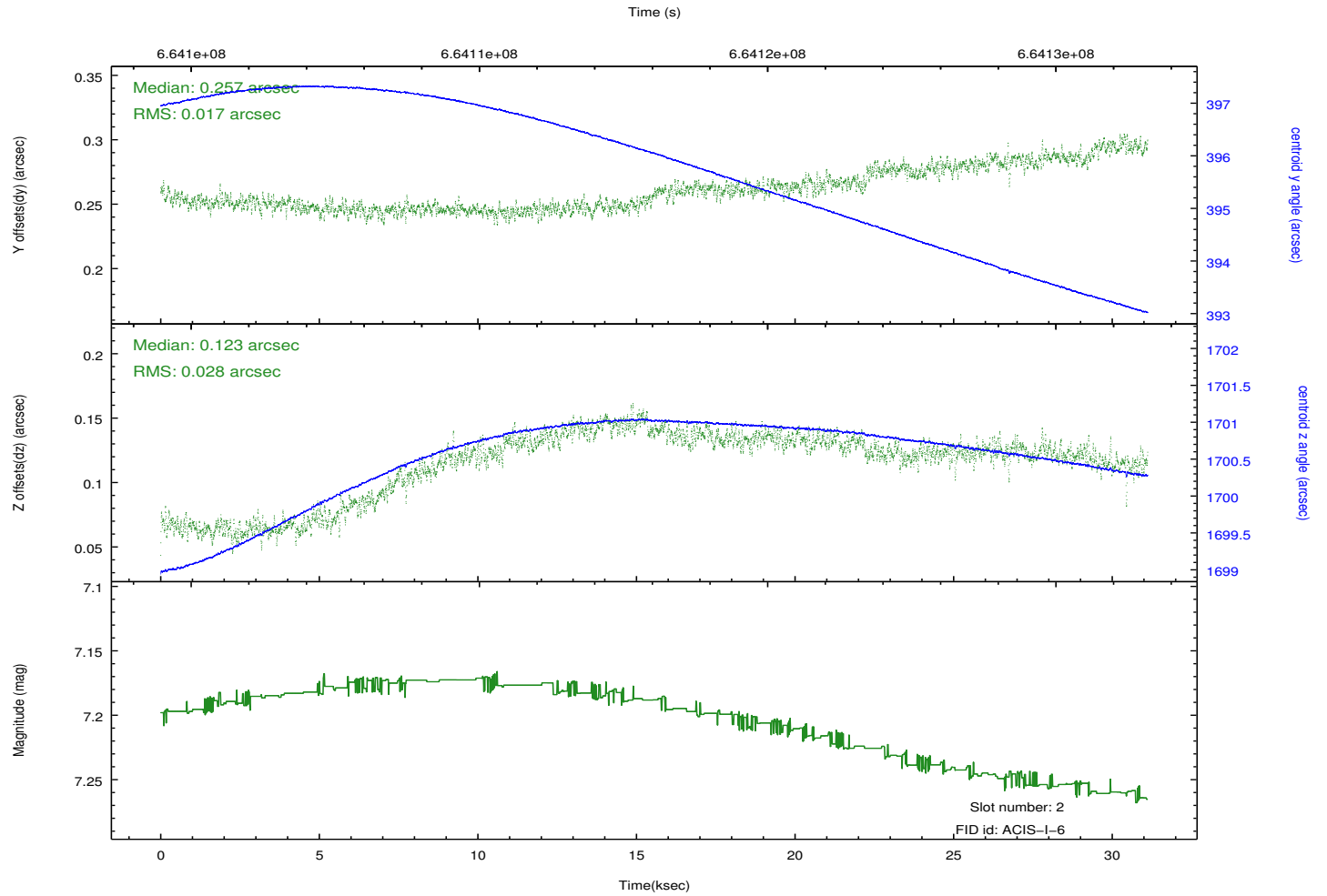
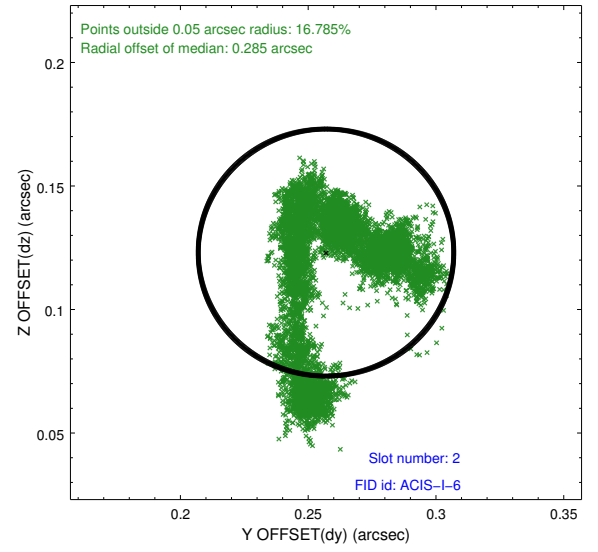
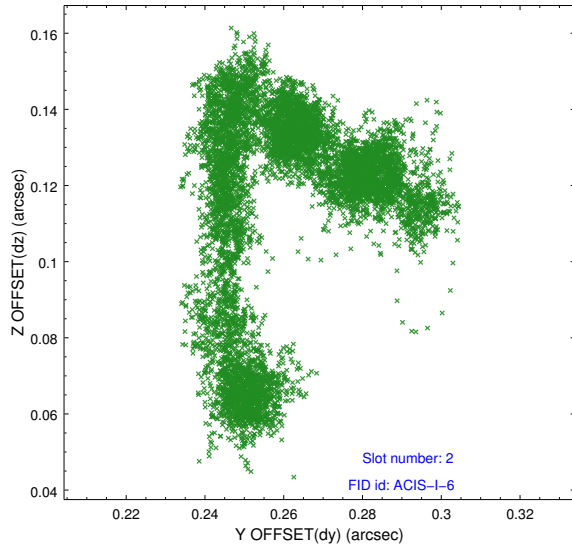
2.5.1 Slot 0



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)	2019.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.061607229352

A.2 Comments