

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18457 - L2 Version 1
Chandra X-Ray Center

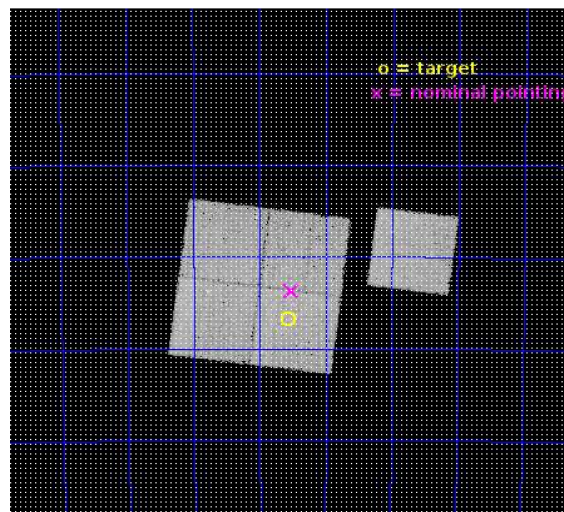
L2 Processing Date : Oct 6 2016

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1 Front

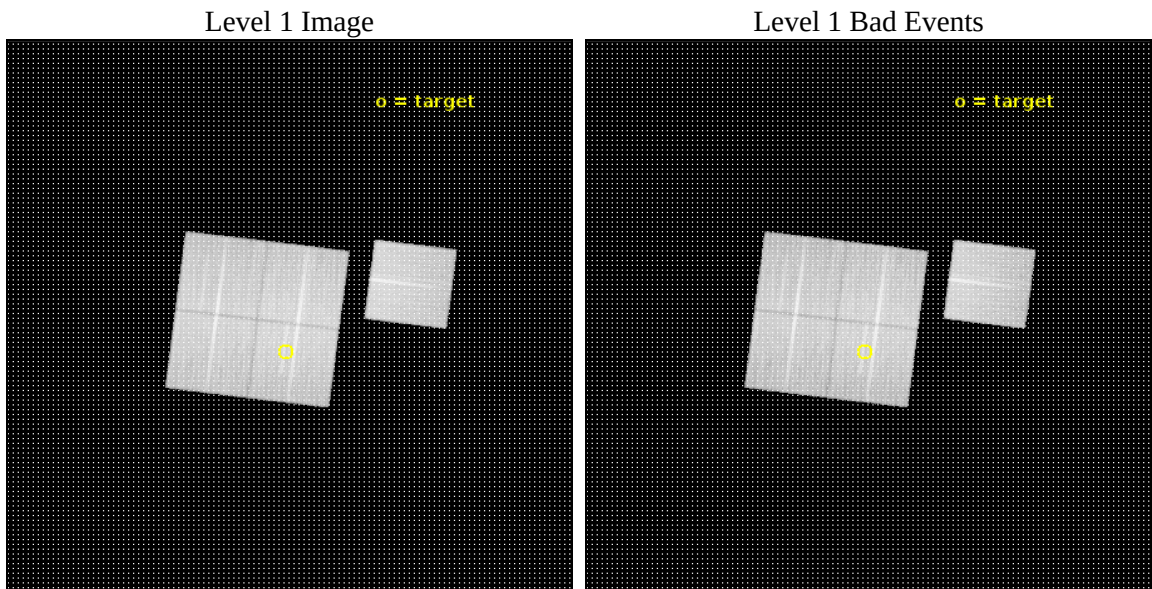
seq_num	801619	Sequence number
obs_id	18457	Observation id
title	The SPT High-z Cluster Survey: Probing the ICM During the Onset of Cooling	Proposal title
observer	Gordon Garmire	Principal investigator
object	SPT-CLJ0646-6236	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	101.639167	Observer's specified target RA [deg]
dec_targ	-62.613611	Observer's specified target Dec [deg]
ra_nom	101.62975732355	Nominal RA [deg]
dec_nom	-62.561746029515	Nominal Dec [deg]
roll_nom	97.20032381494	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45057.958081007	Sum of GTIs [s]
livetime	44469.242687492	Livetime [s]
ontime0	45073.54005301	Sum of GTIs [s]
ontime1	45073.581092954	Sum of GTIs [s]
ontime2	45067.340082288	Sum of GTIs [s]
ontime3	45057.958081007	Sum of GTIs [s]
ontime6	45064.075992227	Sum of GTIs [s]
l2events	141111	Number of level 2 events



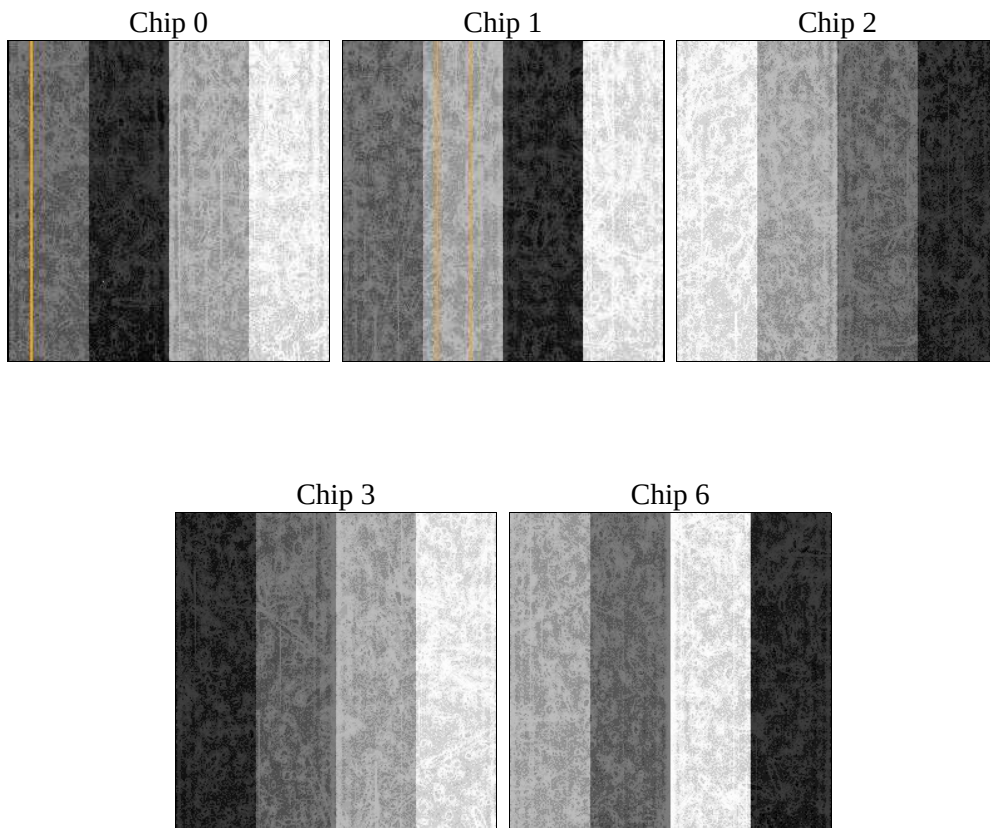
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	45057.958081007	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	45073.54005301	Sum of GTIs [s]
date	2016-10-07T02:11:34	Date and time of file creation	ontime1	45073.581092954	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	45067.340082288	Sum of GTIs [s]
			ontime3	45057.958081007	Sum of GTIs [s]
			ontime6	45064.075992227	Sum of GTIs [s]
			l1events	1452664	Number of level 1 events

2.1.4 Events

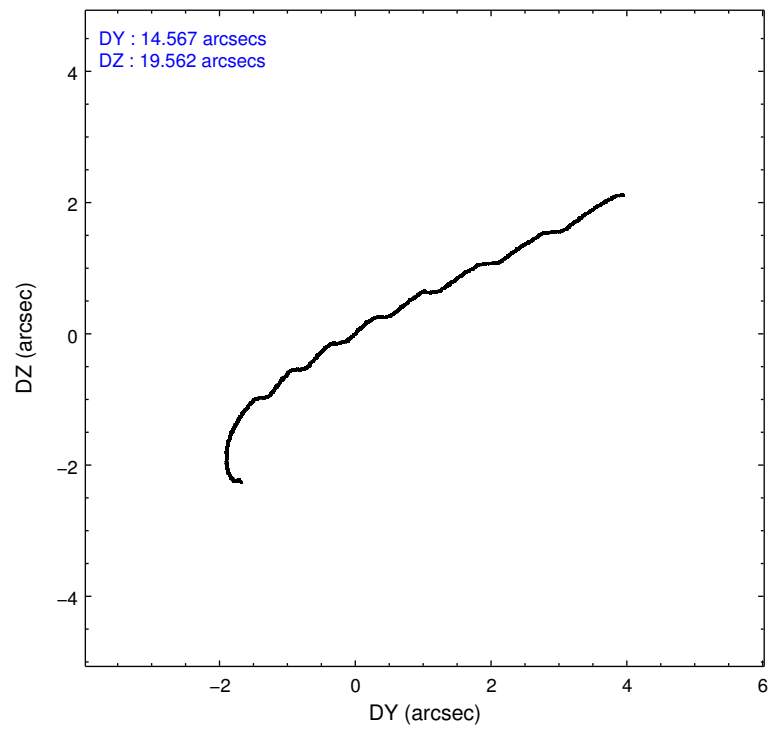
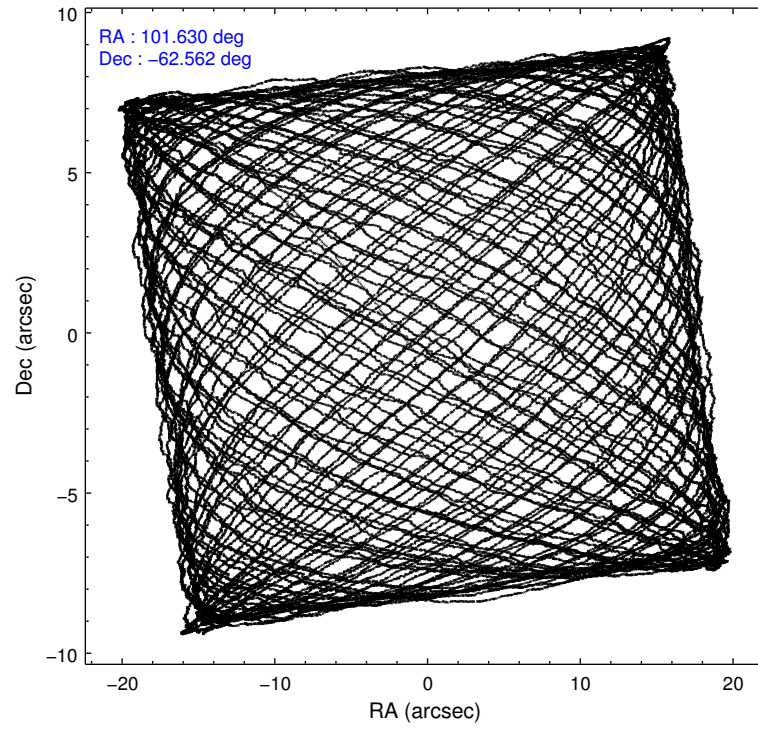
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	273244	276309	305528	294082	303501
rejected events	240598	239578	273672	260868	270396
rejected %	88%	86%	89%	88%	89%

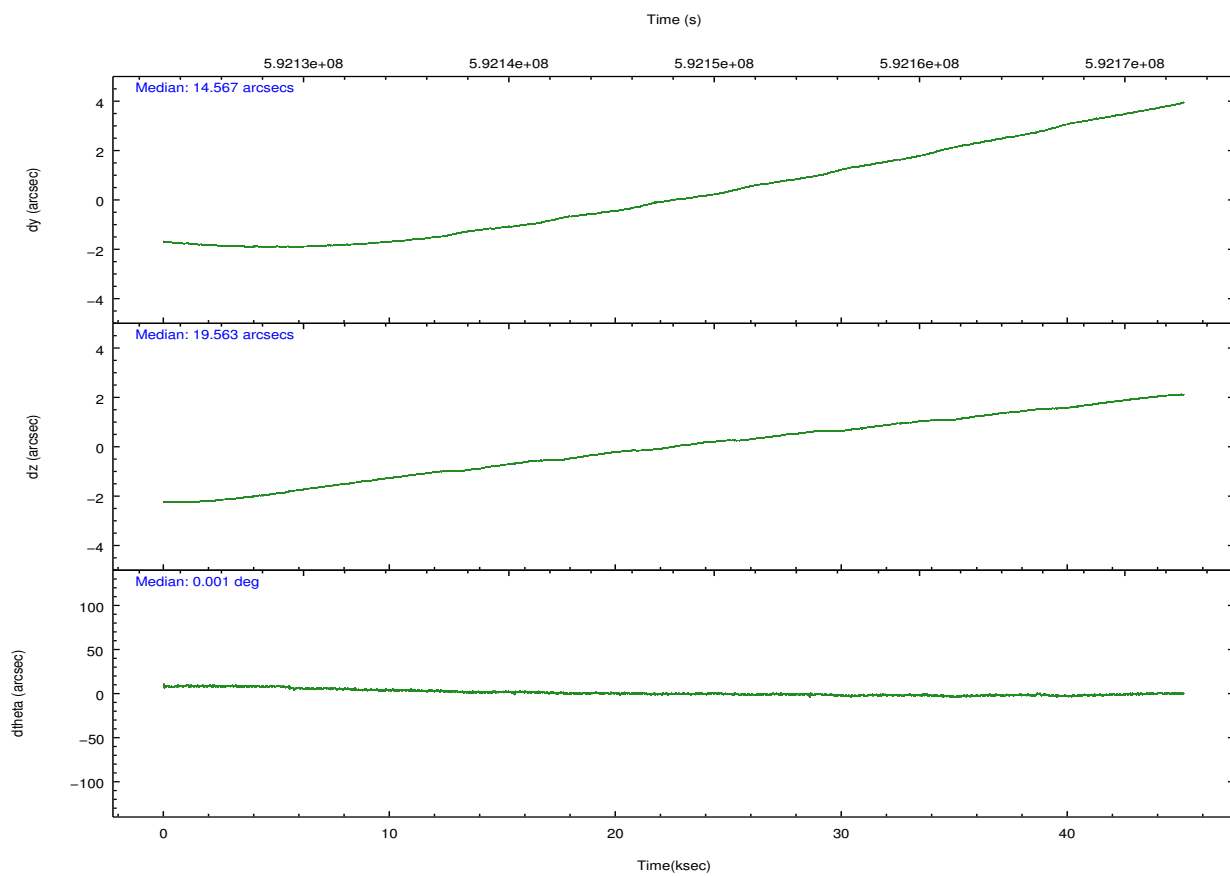
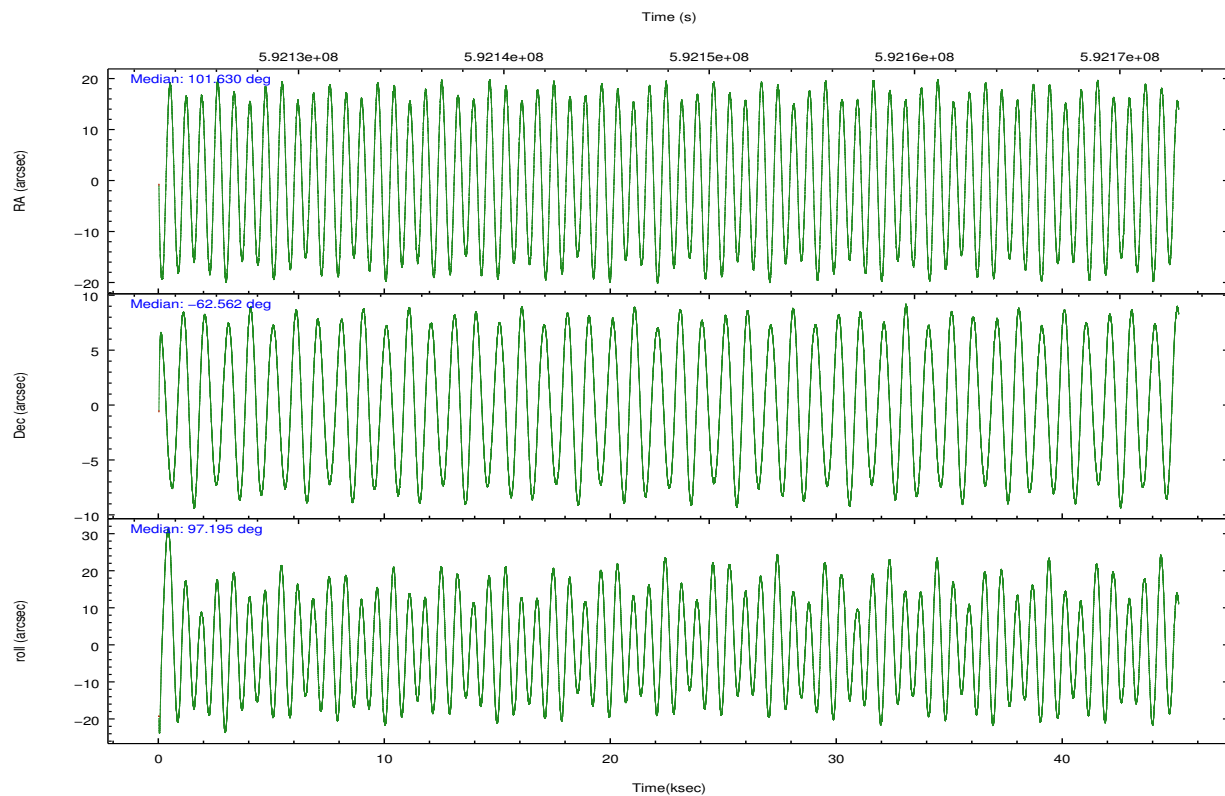
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11159	12258	11209	12742	10724
	4%	4%	3%	4%	3%
grade 1 events	152	122	155	178	138
	0%	0%	0%	0%	0%
grade 2 events	8319	9335	8034	7209	7739
	3%	3%	2%	2%	2%
grade 3 events	3304	3507	3116	3321	3336
	1%	1%	1%	1%	1%
grade 4 events	3156	3487	3206	3415	3386
	1%	1%	1%	1%	1%
grade 5 events	12890	13404	11755	14651	13916
	4%	4%	3%	4%	4%
grade 6 events	6712	8149	6292	6527	7921
	2%	2%	2%	2%	2%
grade 7 events	227552	226047	261761	246039	256341
	83%	81%	85%	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	101.666169	101.6297573235526	CCD I2 on	Y	Y
[deg] Pointing Dec	-62.583661	-62.56174602951454	CCD I3 on	Y	Y
[deg] Pointing Roll	97.023963	97.20032381494005	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	-225.840463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	592125594.184000	592124253.35588	CCD S5 on	N	N
Observation start date	2016-10-06T07:18:46	2016-10-06T06:57:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	592170594.184000	592171157.35858	On-chip summing requested	N	N
Observation end date	2016-10-06T19:48:46	2016-10-06T19:59:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



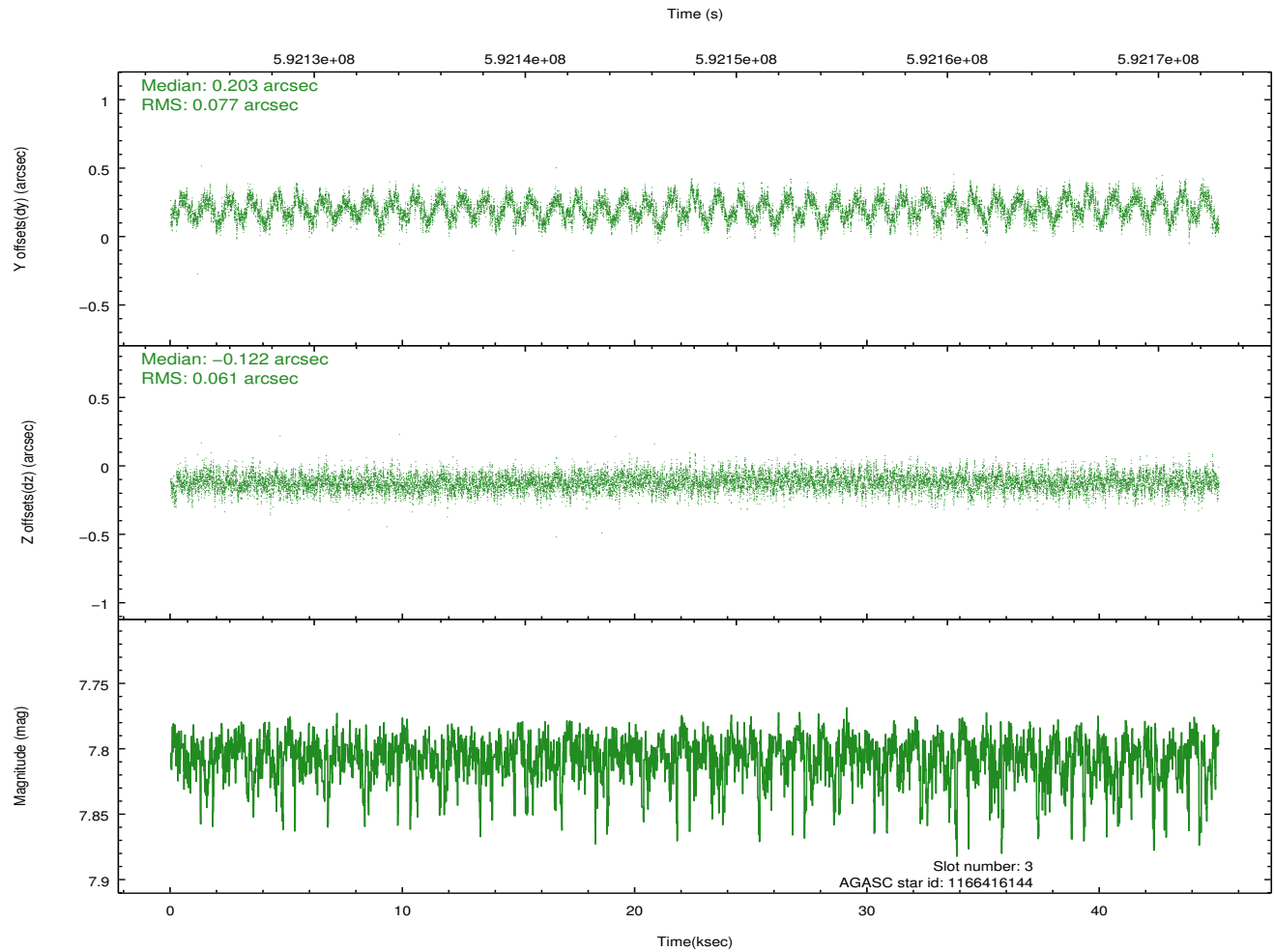
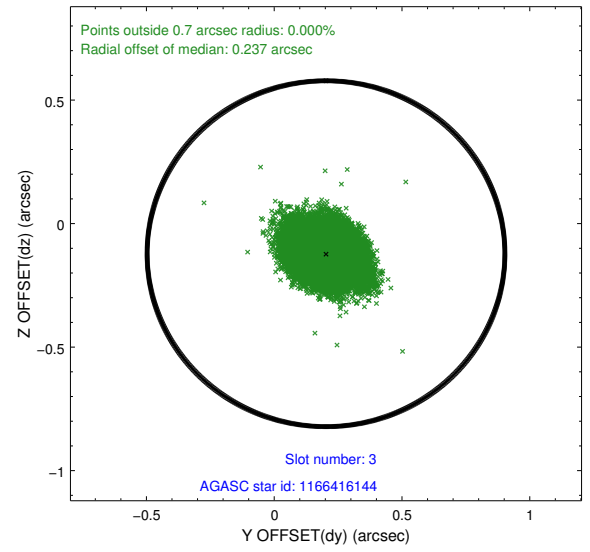
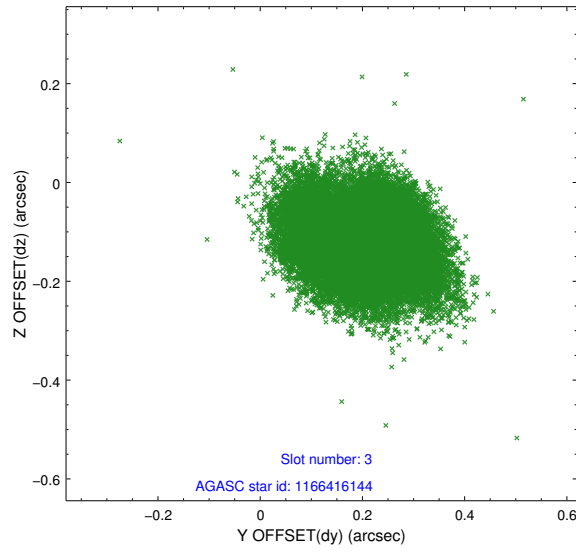


Slot Statistics

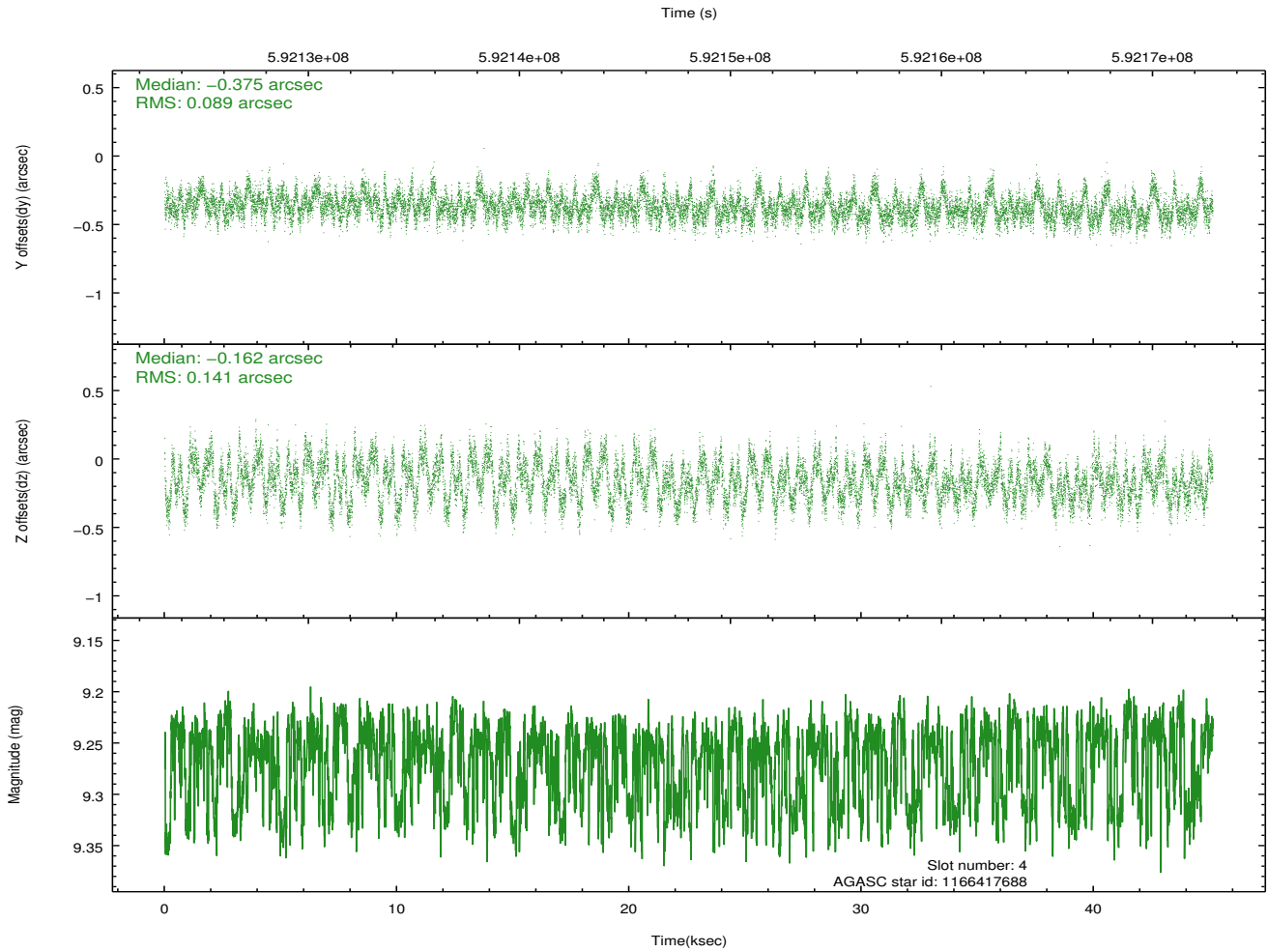
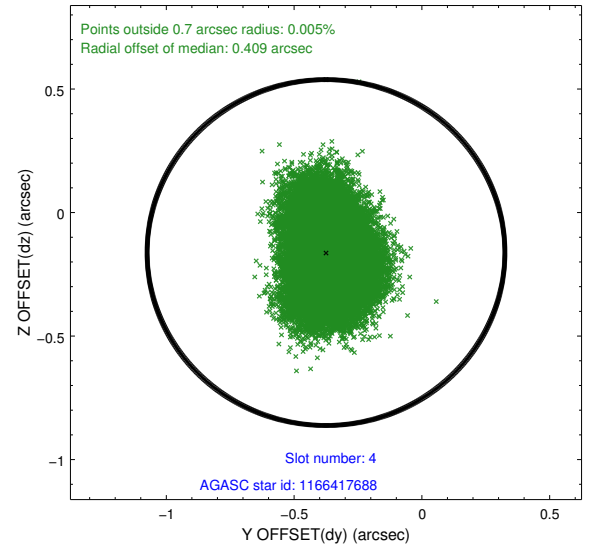
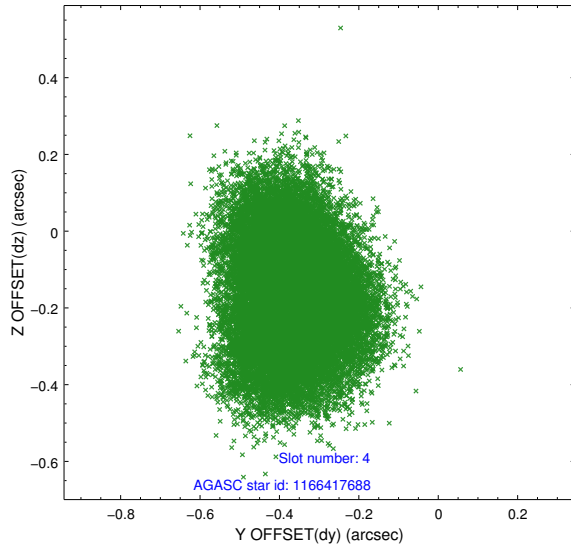
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.09	11006	-0.082	-0.069	0.020	0.053	0.000000	0.000000	-770.27	-1007.61
1	FID		ACIS-I-5	7.16	11007	-0.271	-0.057	0.025	0.034	0.000000	0.000000	-1824.04	895.26
2	FID		ACIS-I-6	7.17	11005	0.253	0.190	0.038	0.056	0.000000	0.000000	390.33	1539.90
3	GUIDE	used	1166416144	7.81	22010	0.203	-0.122	0.105	0.165	100.820271	-63.136063	-1813.95	1609.86
4	GUIDE	used	1166417688	9.26	21996	-0.375	-0.162	0.181	0.282	100.877257	-62.098974	1886.16	1106.89
5	GUIDE	used	1166419408	9.13	21989	0.168	0.035	0.165	0.270	102.511924	-61.984178	1958.70	-1681.81
6	GUIDE	used	1166419784	9.19	21997	-0.092	-0.248	0.224	0.386	100.702861	-62.895789	-933.48	1706.70
7	GUIDE	used	1166416048	9.62	21971	0.105	0.469	0.186	0.300	102.769754	-63.047030	-1890.29	-1580.50

2.4 Star Slots

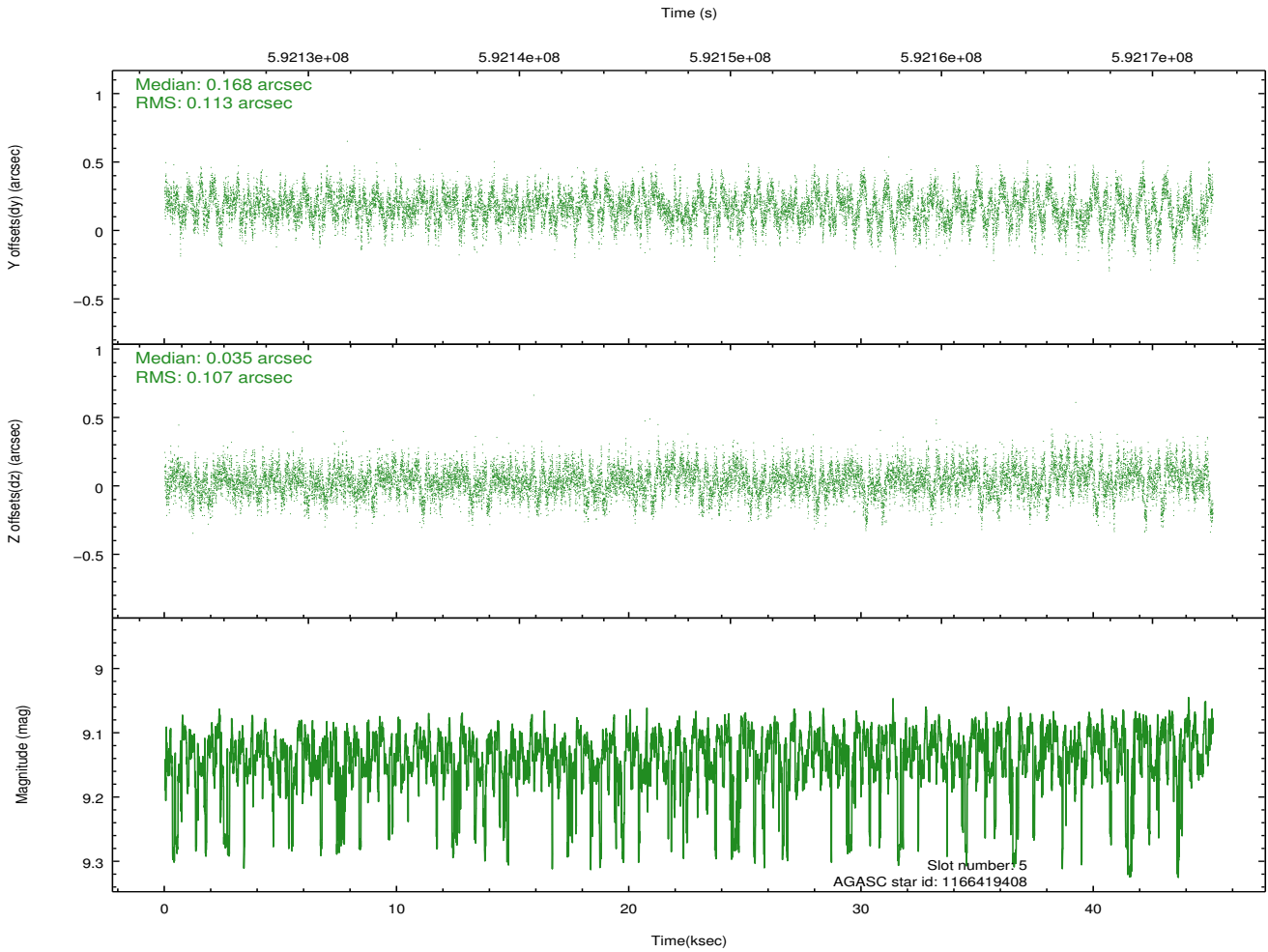
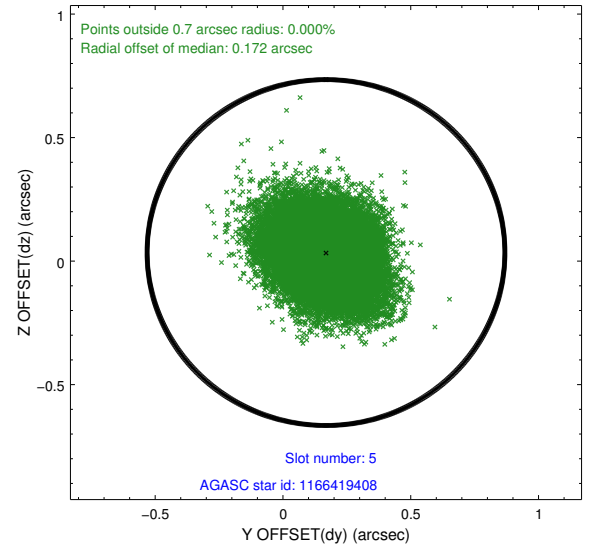
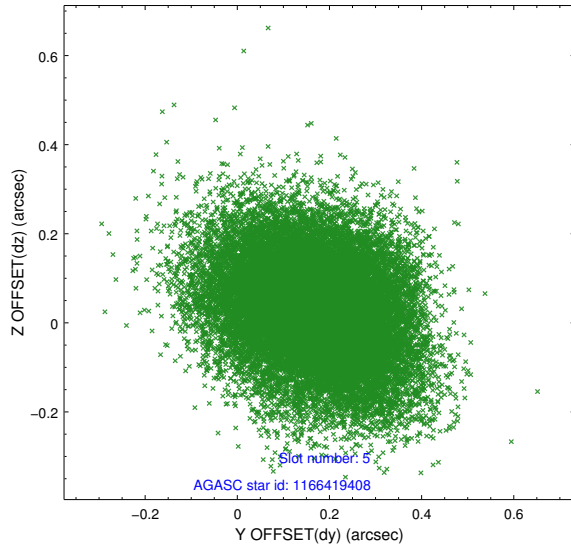
2.4.1 Slot 3



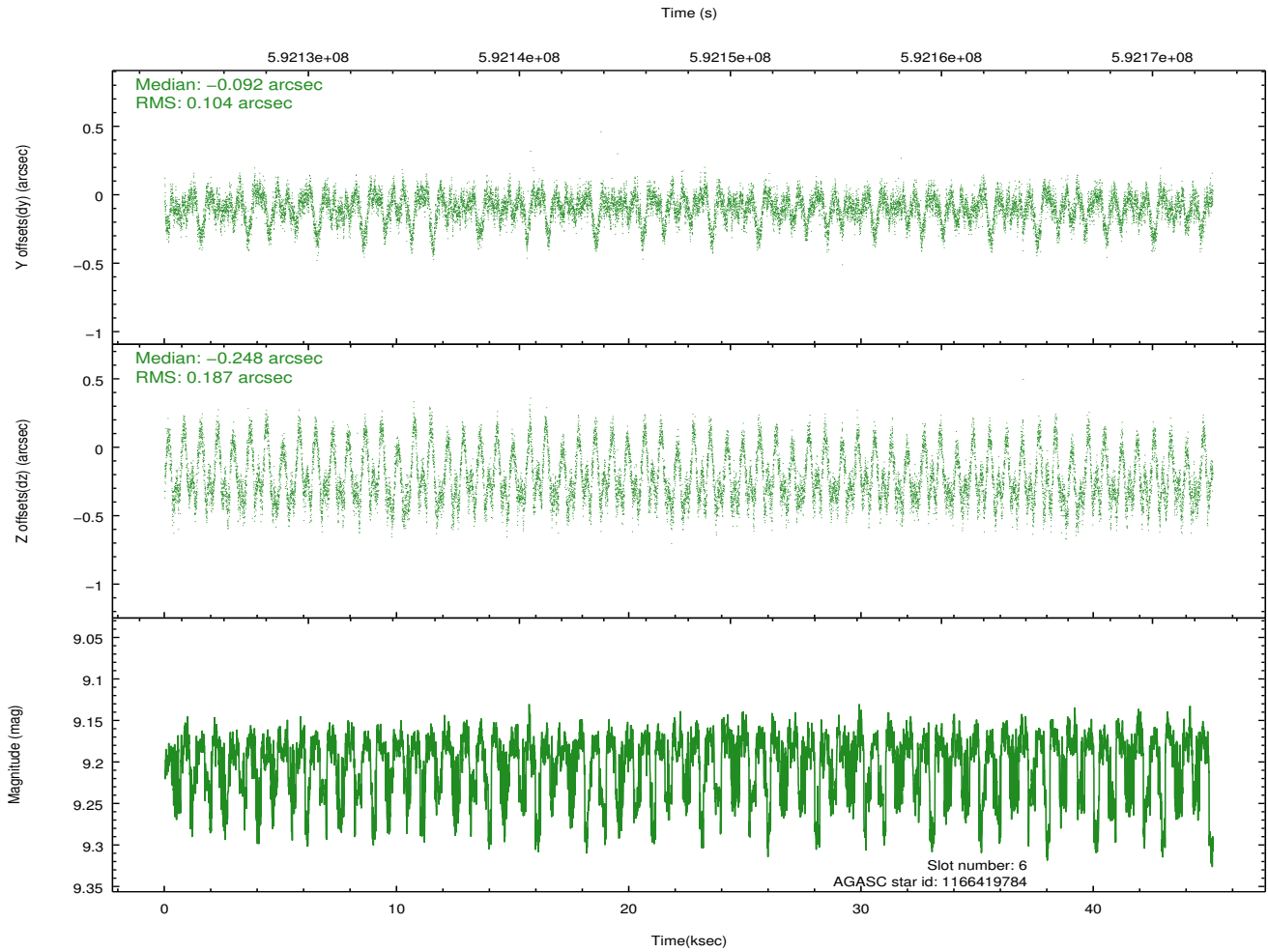
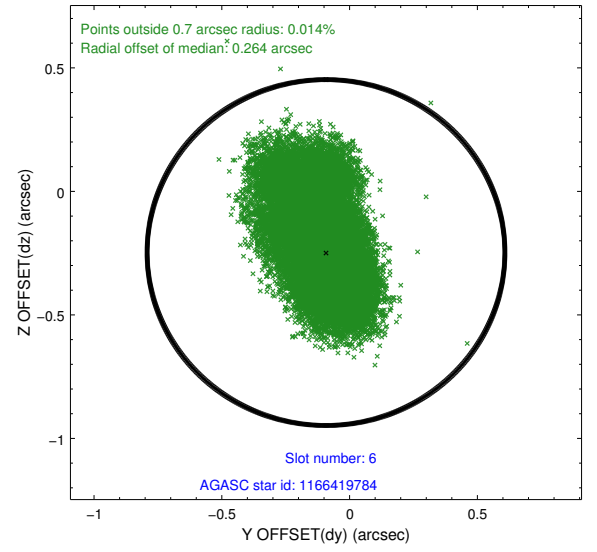
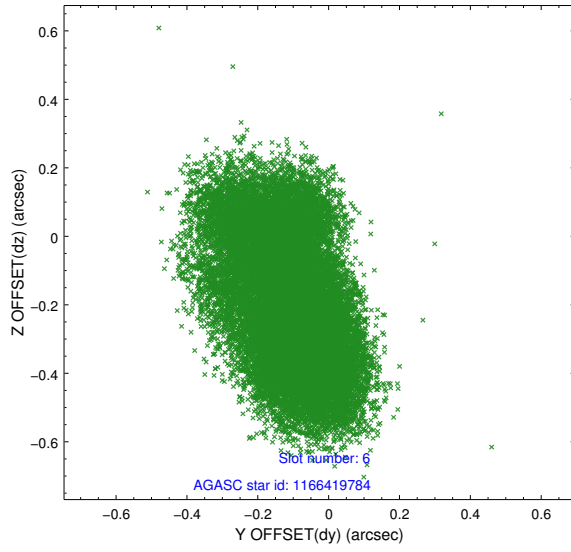
2.4.2 Slot 4



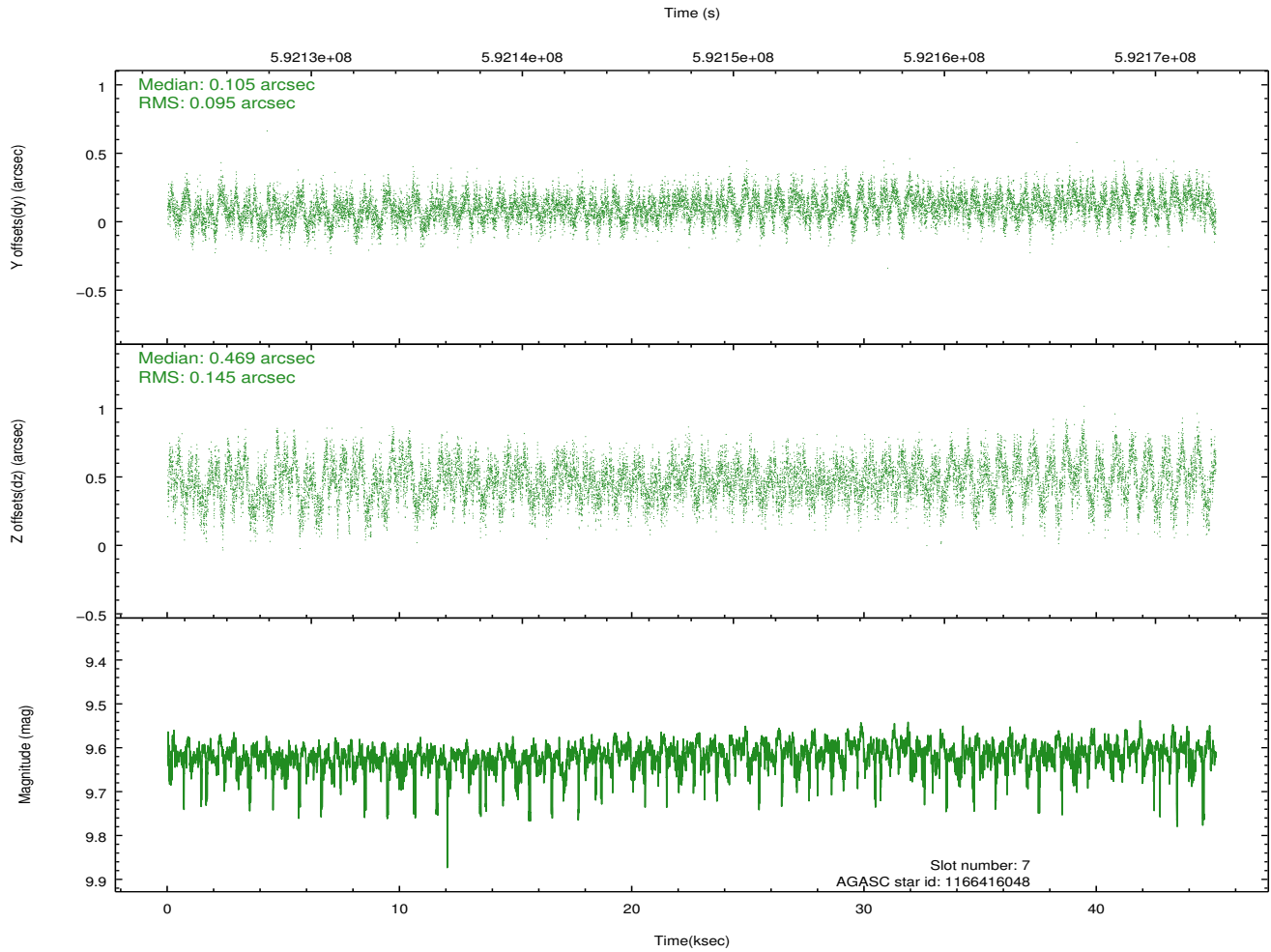
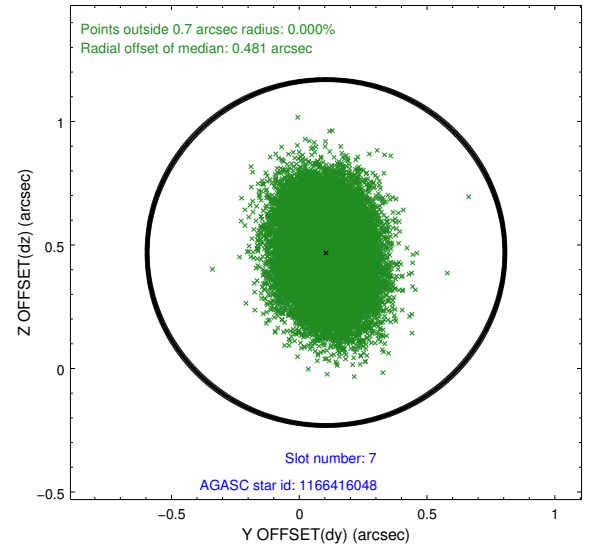
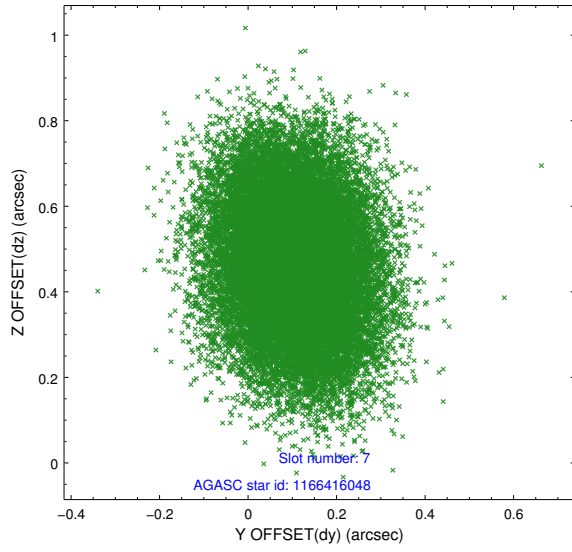
2.4.3 Slot 5



2.4.4 Slot 6

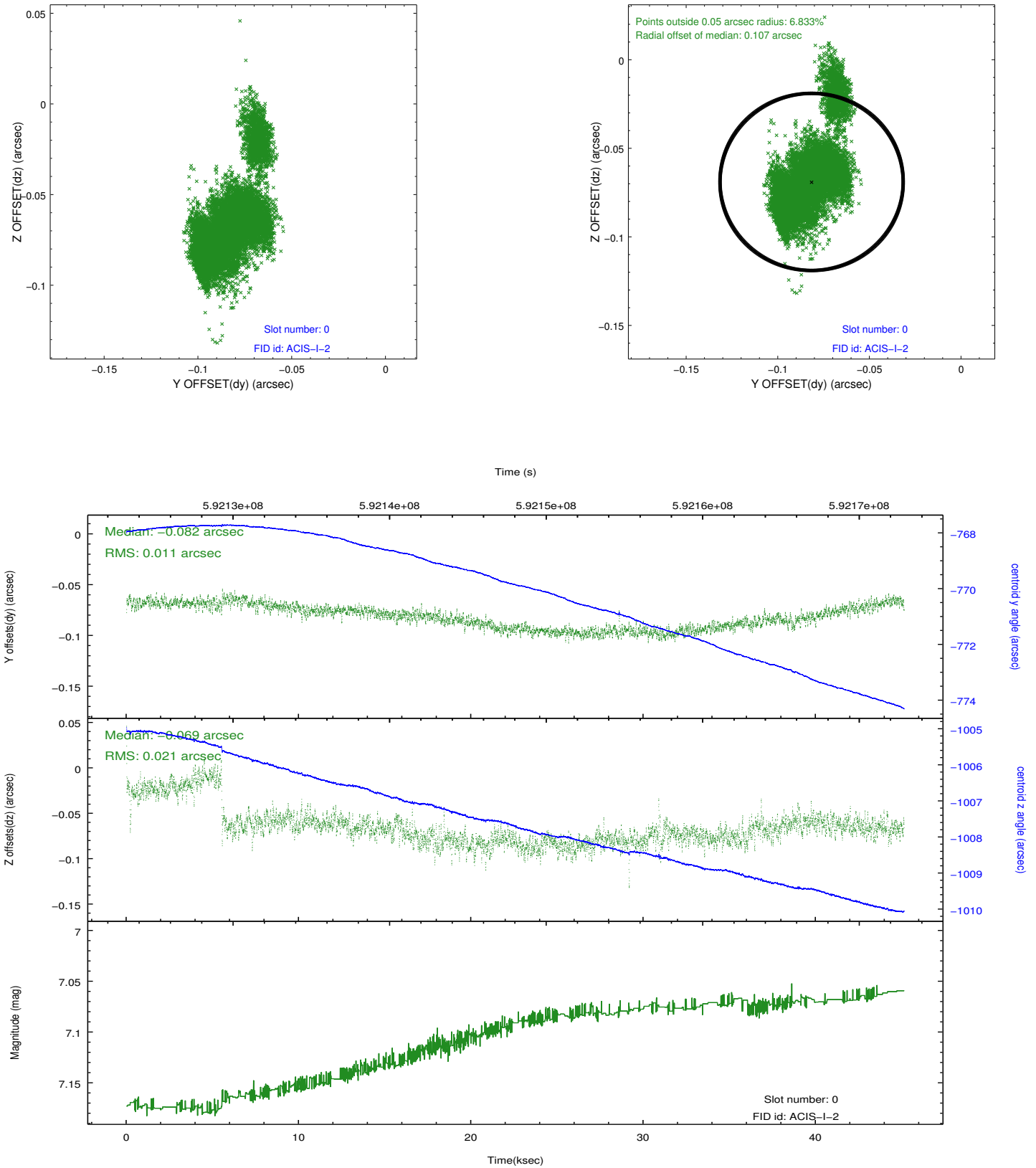


2.4.5 Slot 7

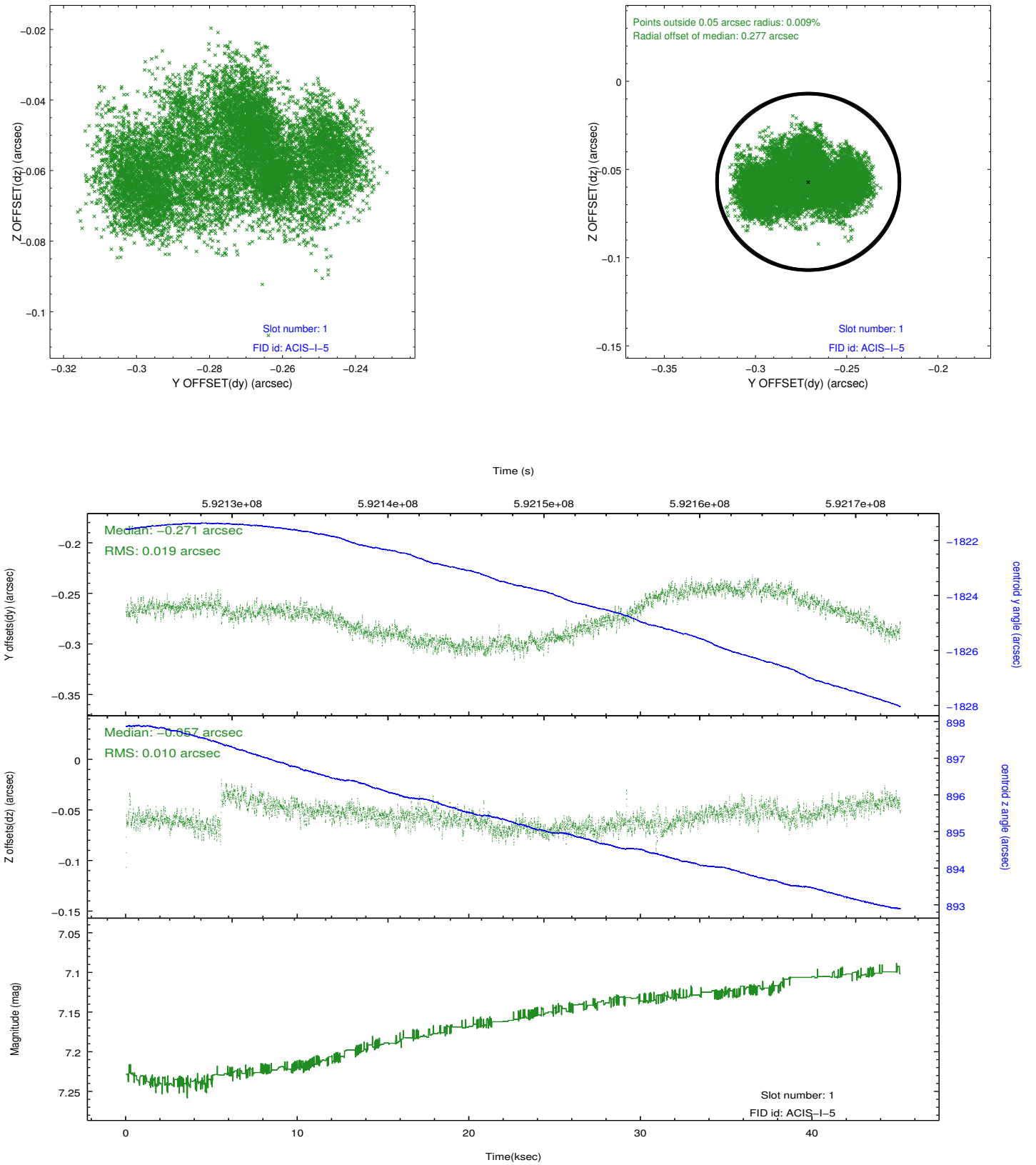


2.5 FID Slots

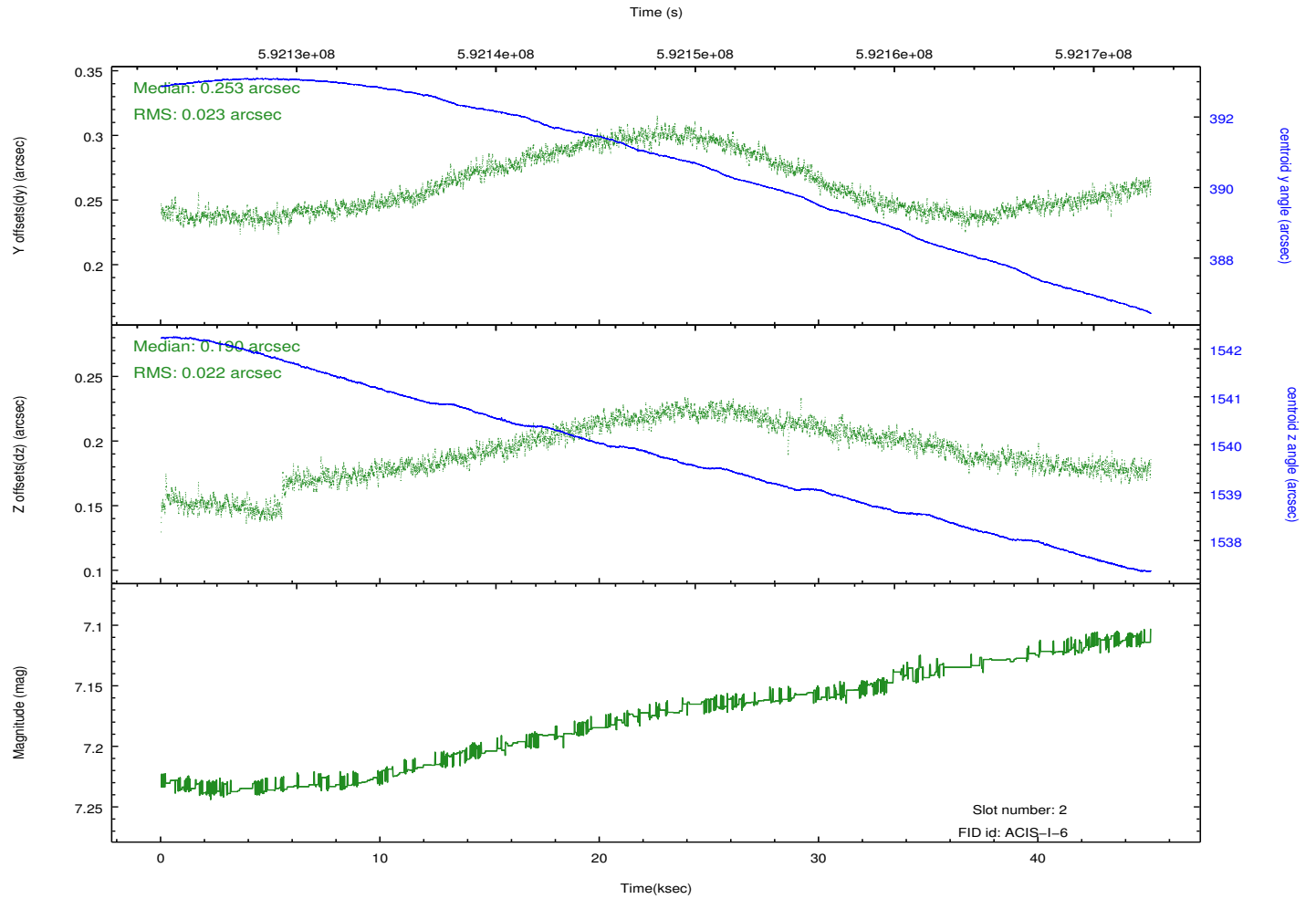
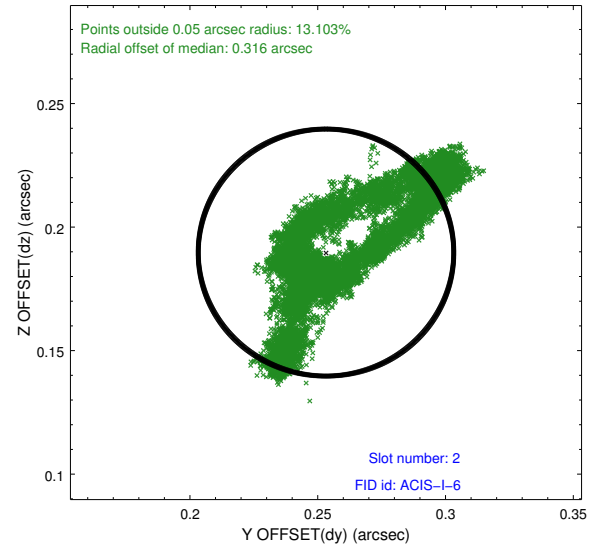
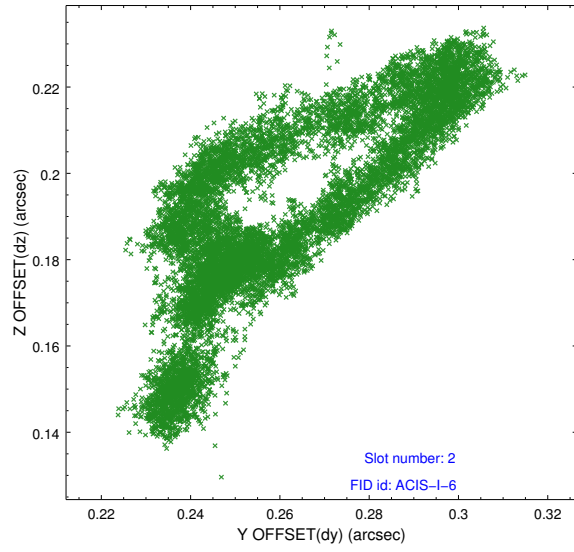
2.5.1 Slot 0



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)	2016.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.057958081007

A.2 Comments