

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19297 - L2 Version 1
Chandra X-Ray Center

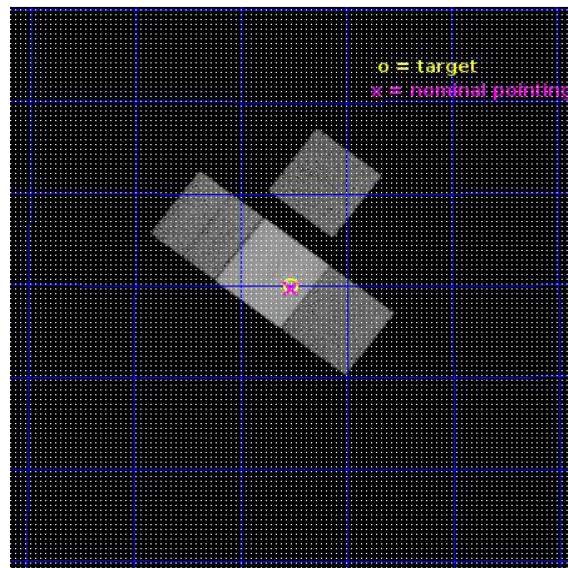
L2 Processing Date : Nov 15 2016

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1 Front

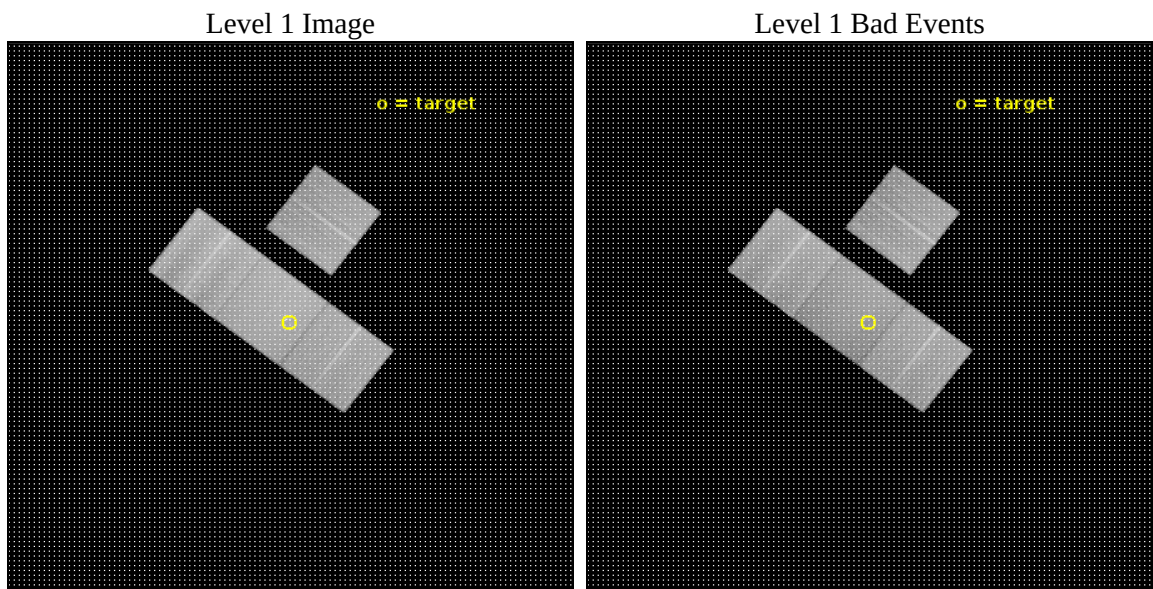
seq_num	502945	Sequence number
obs_id	19297	Observation id
title	CHANDRA FOLLOWS SN 1986J INTO ITS 4TH DECADE	Proposal title
observer	Vikram Dwarkadas	Principal investigator
object	SN 1986J	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.630417	Observer's specified target RA [deg]
dec_targ	42.332583	Observer's specified target Dec [deg]
ra_nom	35.630501888057	Nominal RA [deg]
dec_nom	42.327936947147	Nominal Dec [deg]
roll_nom	217.15654798682	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40061.300308228	Sum of GTIs [s]
livetime	39537.869927	Livetime [s]
ontime3	40061.300308228	Sum of GTIs [s]
ontime6	40058.159237981	Sum of GTIs [s]
ontime7	40061.300308228	Sum of GTIs [s]
ontime8	40055.018137932	Sum of GTIs [s]
l2events	234561	Number of level 2 events



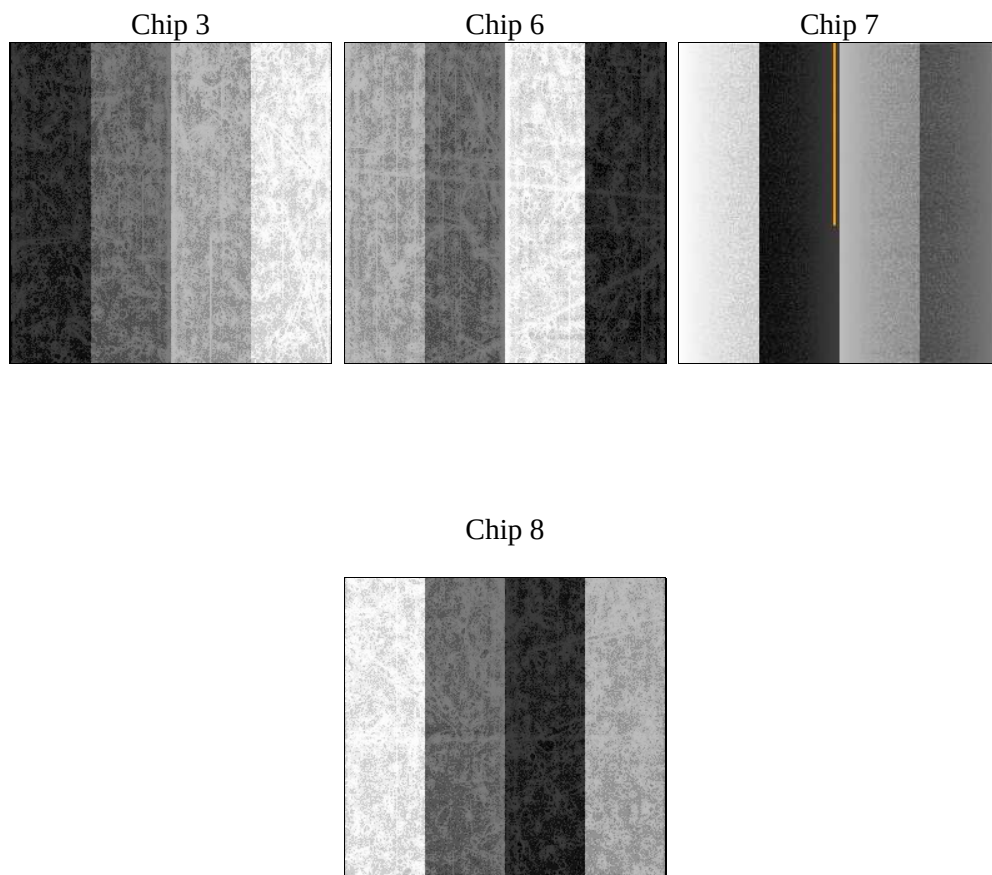
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40061.300308228	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	40061.300308228	Sum of GTIs [s]
date	2016-11-15T18:09:36	Date and time of file creation	ontime6	40058.159237981	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	40061.300308228	Sum of GTIs [s]
			ontime8	40055.018137932	Sum of GTIs [s]
			l1events	1284959	Number of level 1 events

2.1.4 Events

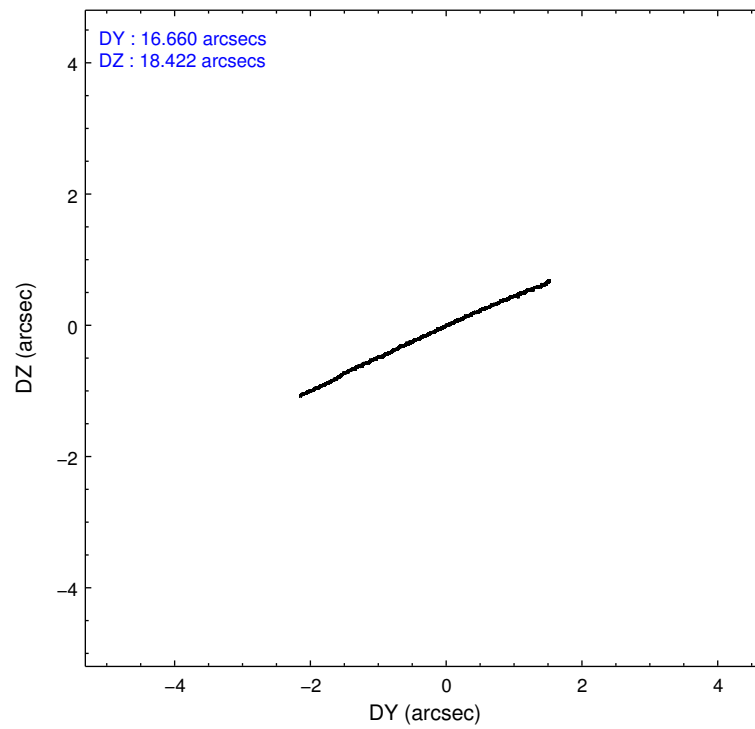
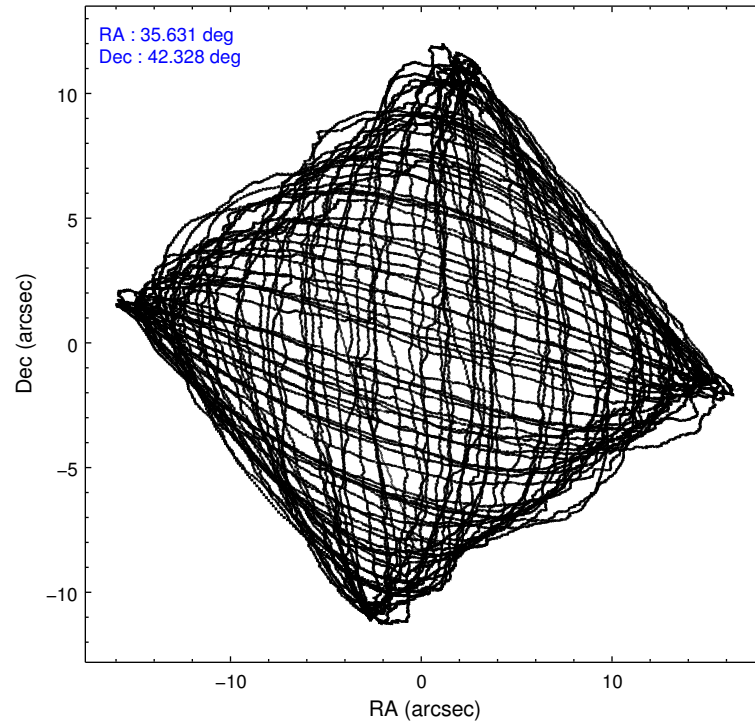
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	271367	293817	359776	359999
rejected events	244050	262694	203135	270655
rejected %	89%	89%	56%	75%

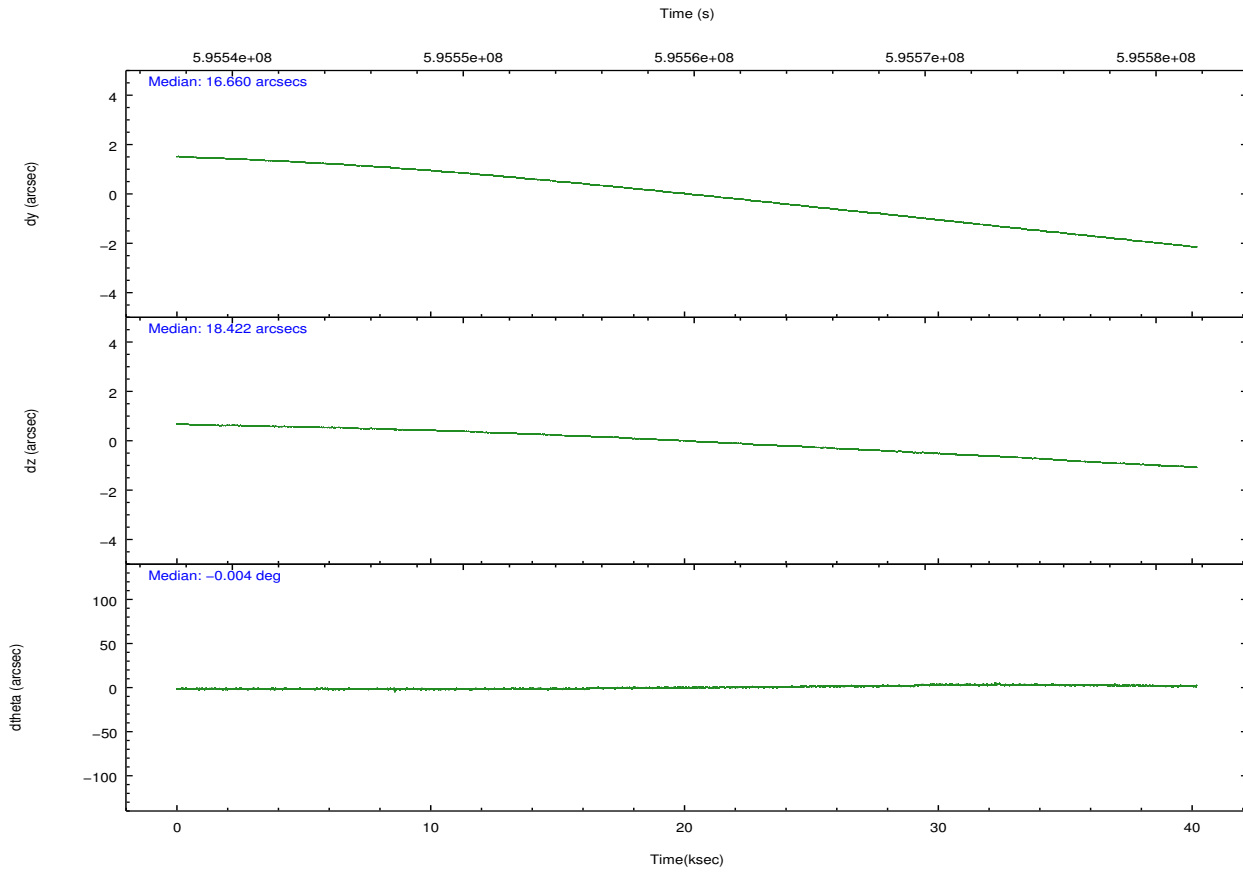
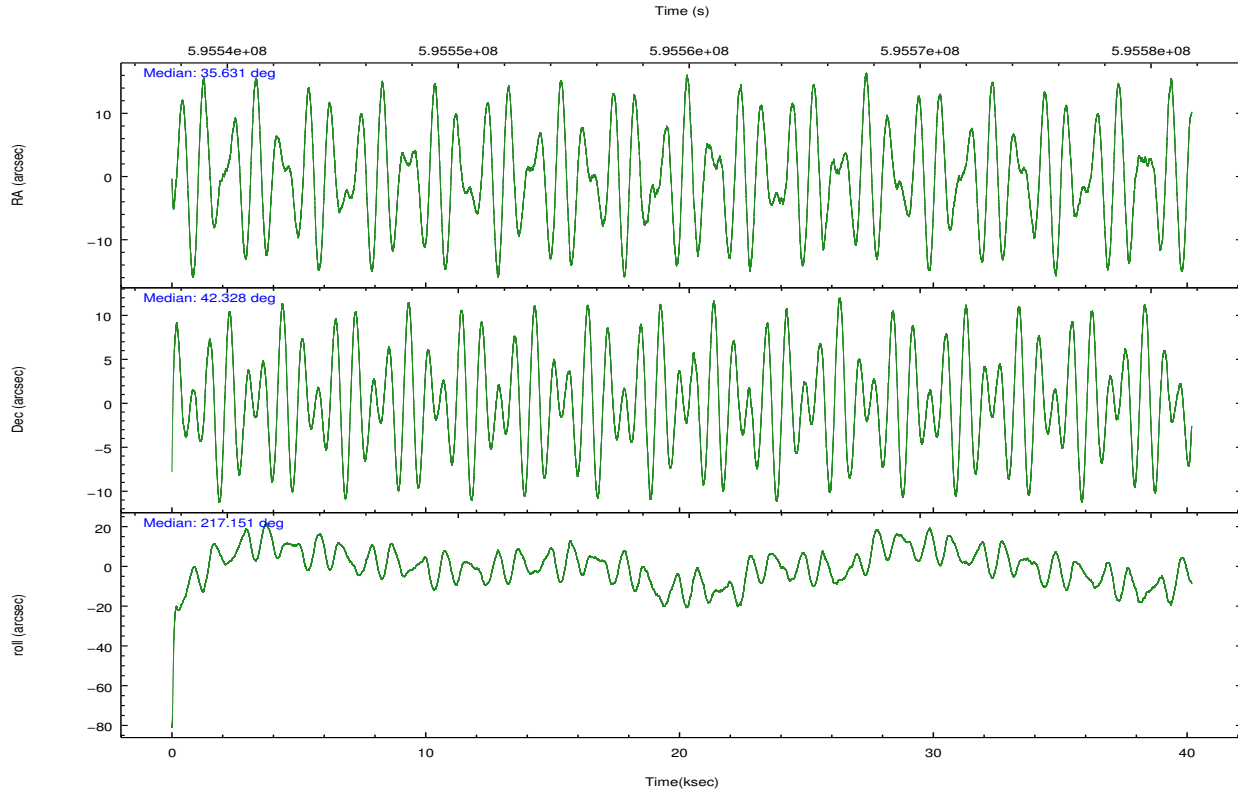
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	9489	9454	12999	24593
	3%	3%	3%	6%
grade 1 events	122	121	462	258
	0%	0%	0%	0%
grade 2 events	5927	7852	33801	22715
	2%	2%	9%	6%
grade 3 events	2899	2958	11619	8907
	1%	1%	3%	2%
grade 4 events	2981	2774	11542	8371
	1%	0%	3%	2%
grade 5 events	12843	12453	33334	19175
	4%	4%	9%	5%
grade 6 events	6027	8093	86709	24764
	2%	2%	24%	6%
grade 7 events	231079	250112	169310	251216
	85%	85%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	35.644473	35.63050188805654	CCD I2 on	O1	N
[deg] Pointing Dec	42.353368	42.32793694714704	CCD I3 on	Y	Y
[deg] Pointing Roll	216.990533	217.1565479868183	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	595539778.184000	595538736.11526	CCD S5 on	N	N
Observation start date	2016-11-14T19:41:50	2016-11-14T19:25:36	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	595579778.184000	595580703.71769	On-chip summing requested	N	N
Observation end date	2016-11-15T06:48:30	2016-11-15T07:05:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



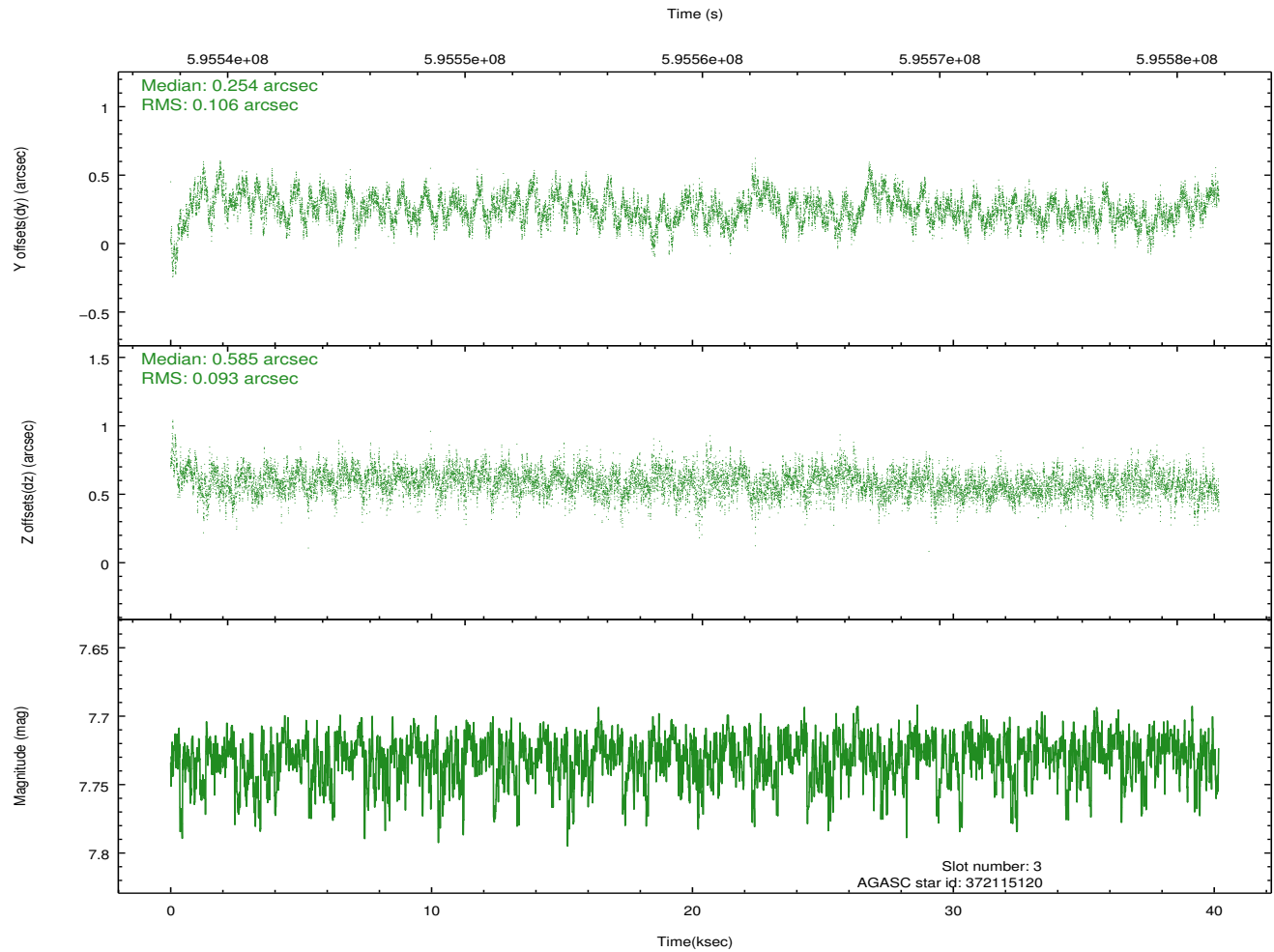
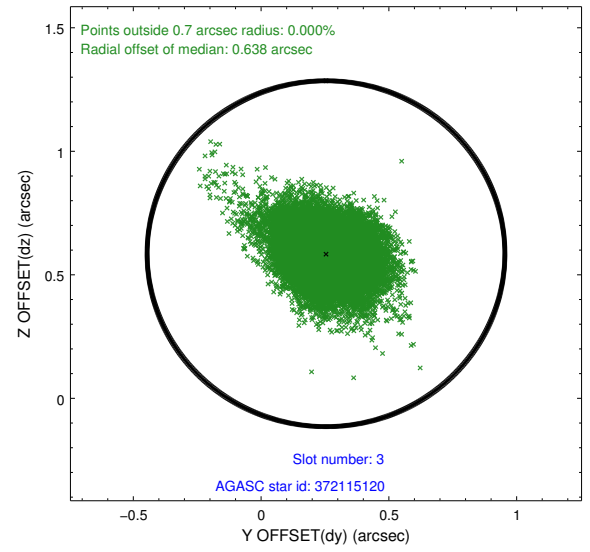
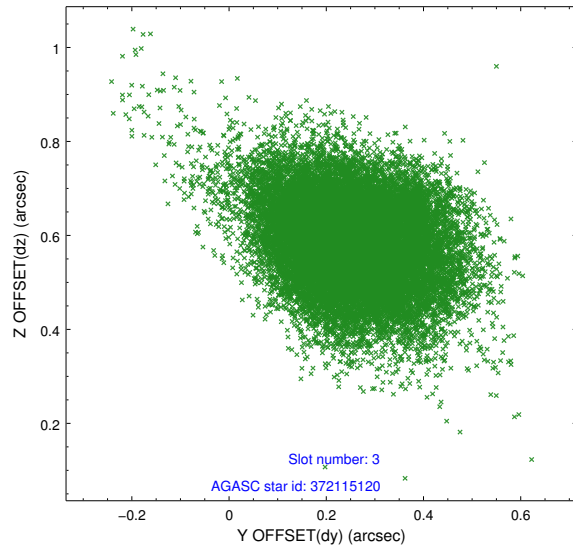


Slot Statistics

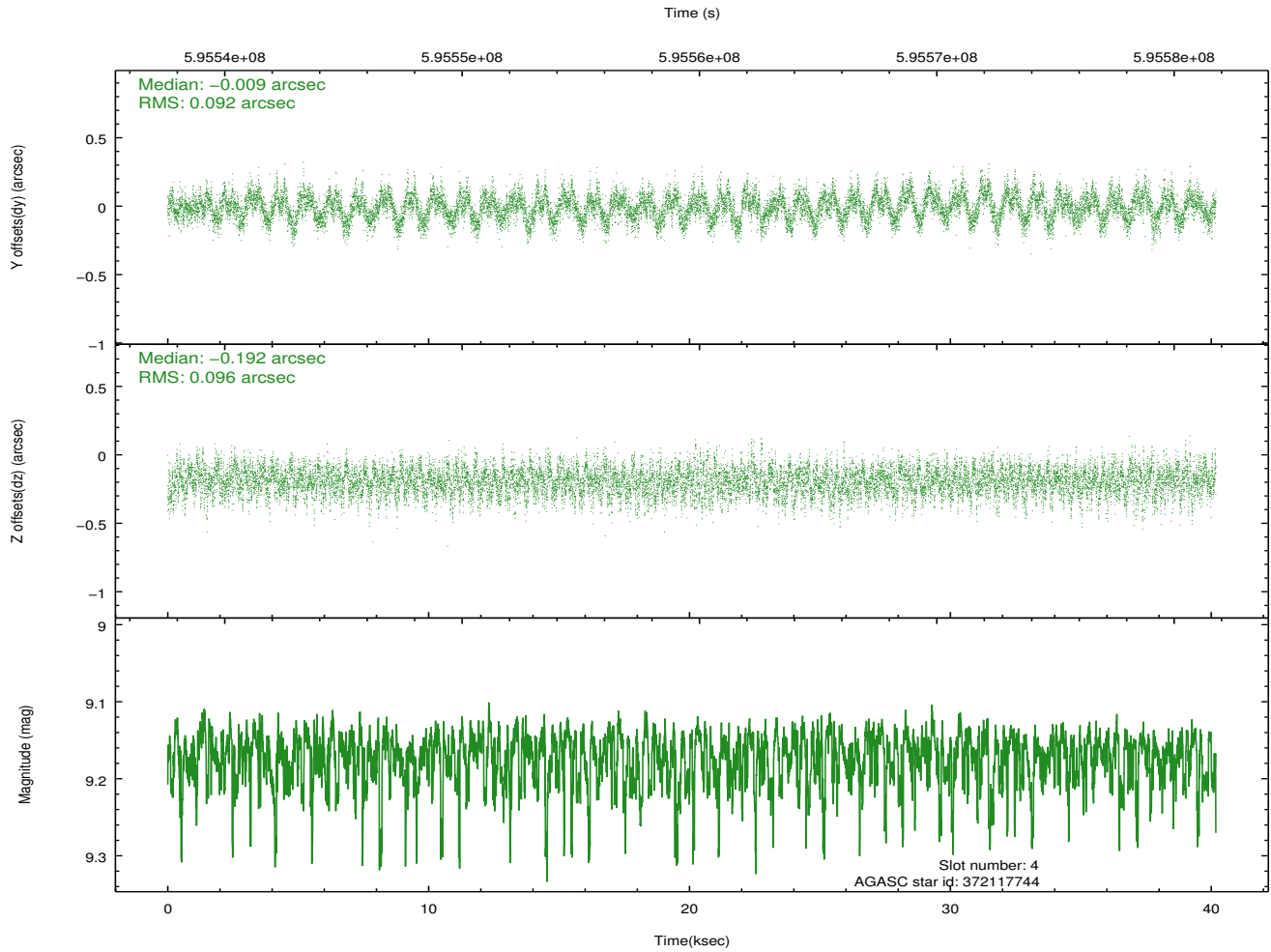
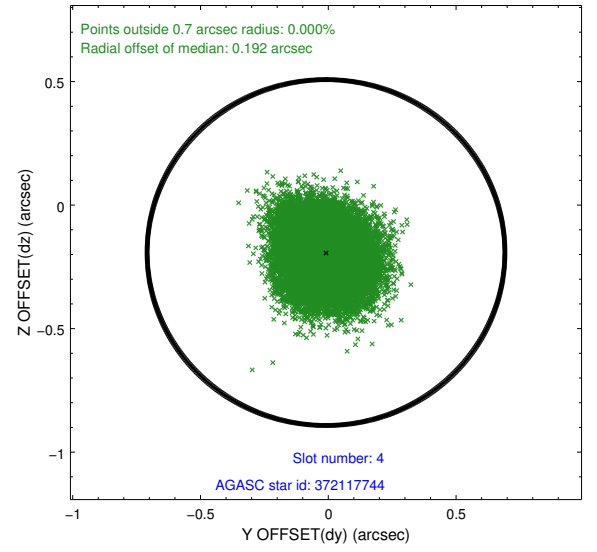
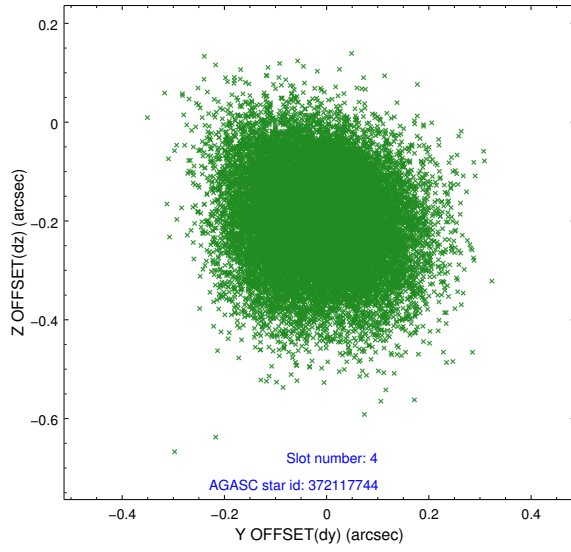
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	9800	-0.188	-0.151	0.011	0.021	0.000000	0.000000	-769.76	-1739.92
1	FID		ACIS-S-4	7.25	9798	0.489	0.131	0.012	0.022	0.000000	0.000000	2144.18	168.84
2	FID		ACIS-S-5	7.25	9801	-0.336	0.028	0.011	0.017	0.000000	0.000000	-1822.74	162.41
3	GUIDE	used	372115120	7.73	19596	0.254	0.585	0.147	0.241	35.261123	42.943957	-472.90	-2307.13
4	GUIDE	used	372117744	9.17	19581	-0.009	-0.192	0.142	0.228	35.244211	42.008785	1600.24	344.69
5	GUIDE	used	372125688	8.87	19585	-0.083	-0.114	0.110	0.187	35.571507	41.884148	1172.66	1231.49
6	GUIDE	used	372120448	8.17	19594	-0.222	-0.216	0.128	0.205	35.866153	41.742261	847.53	2114.79
7	GUIDE	used	372125464	9.45	19569	0.051	-0.061	0.175	0.285	35.347451	41.542766	2394.50	1848.73

2.4 Star Slots

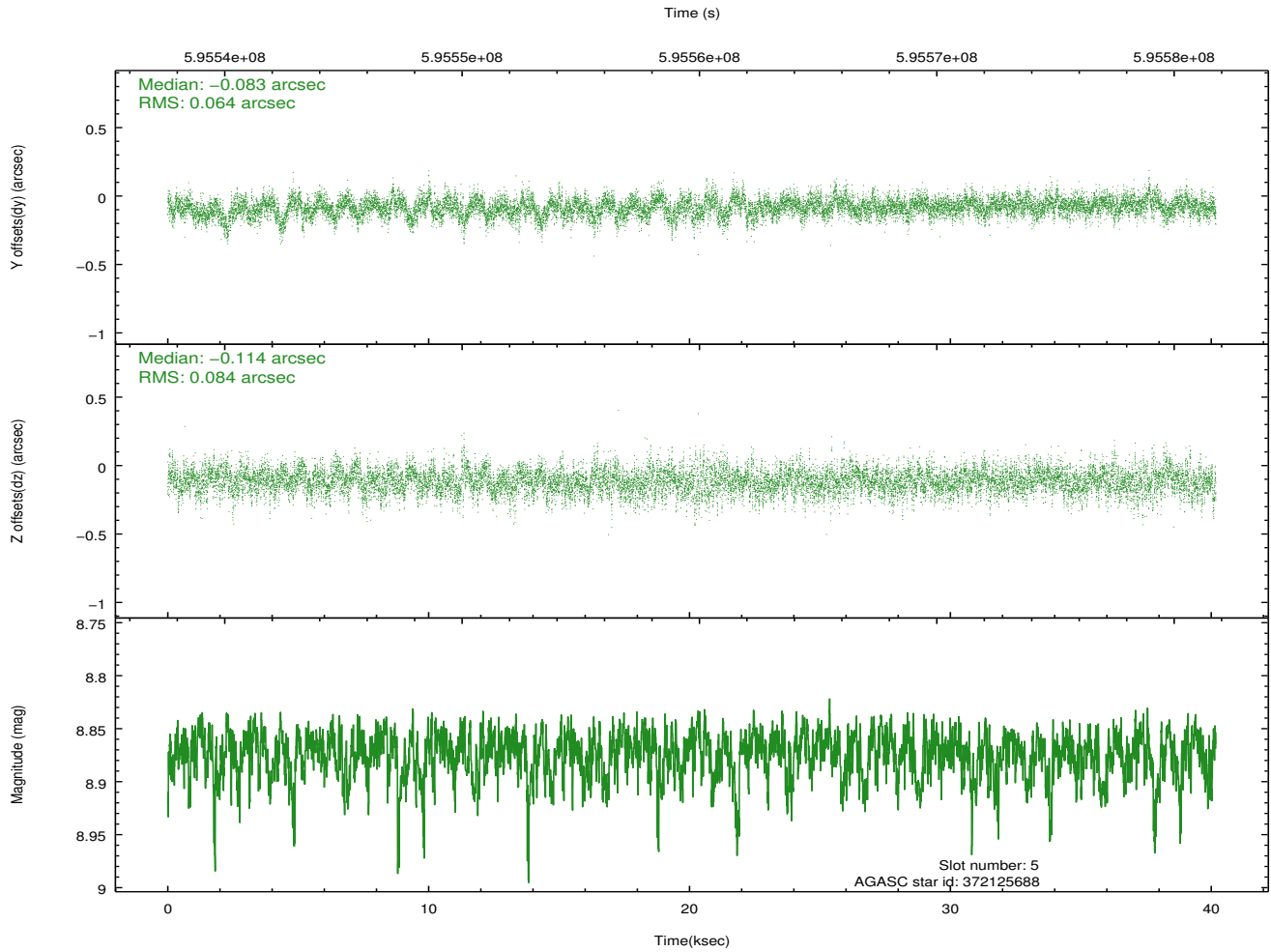
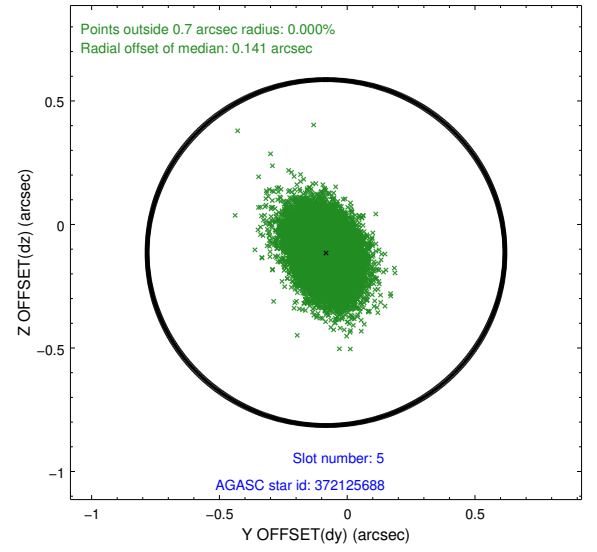
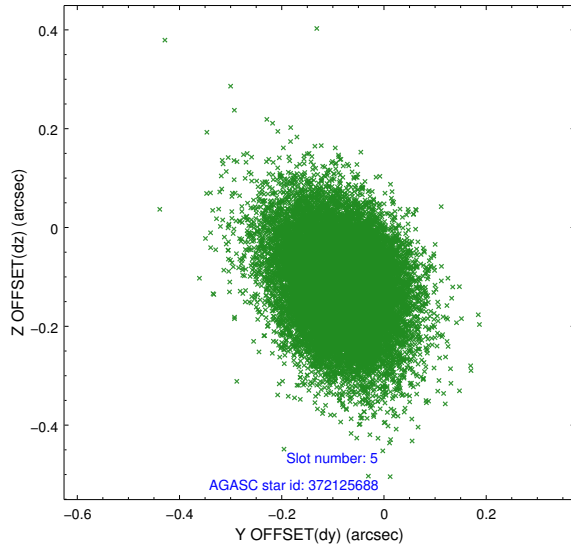
2.4.1 Slot 3



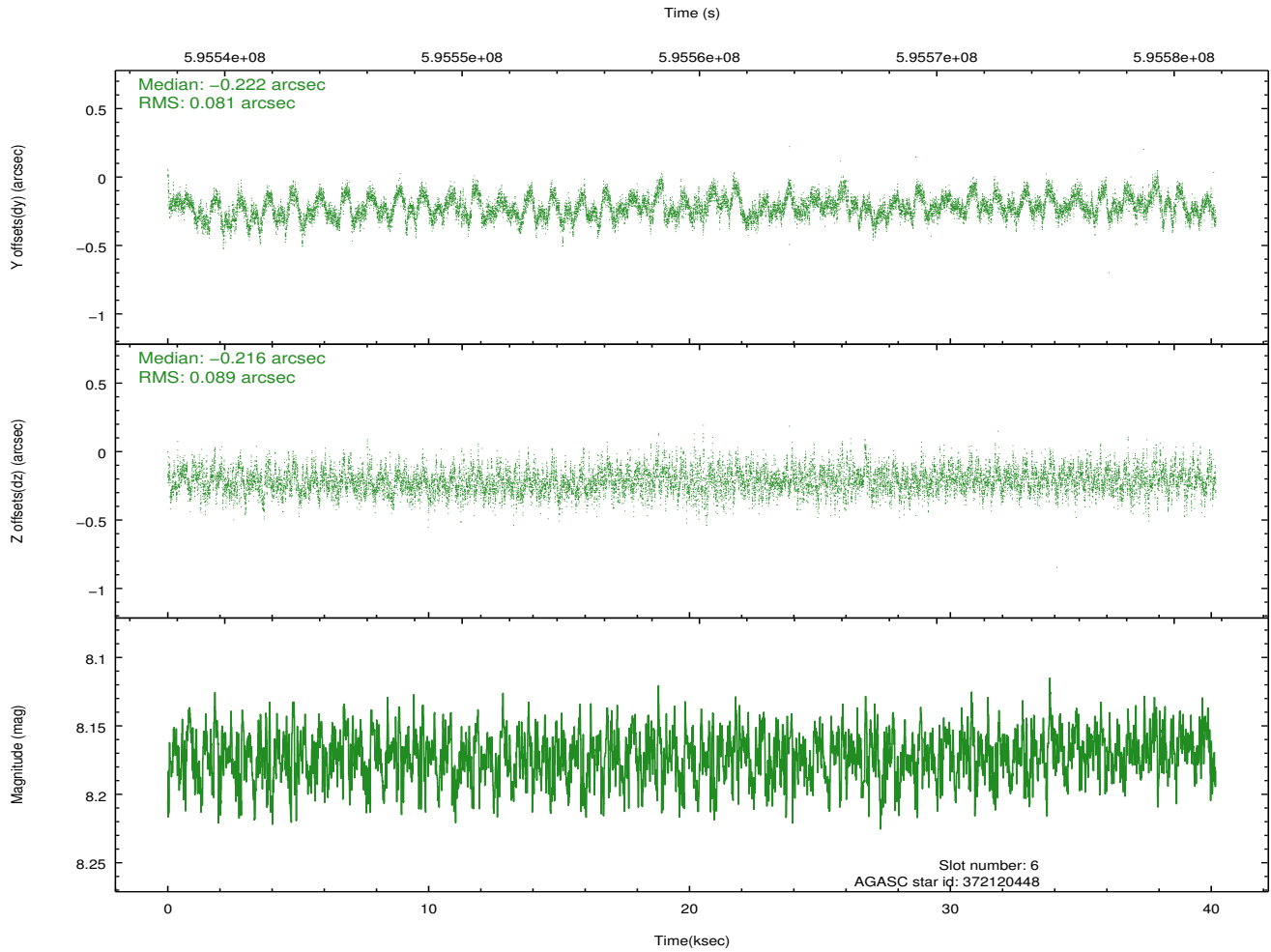
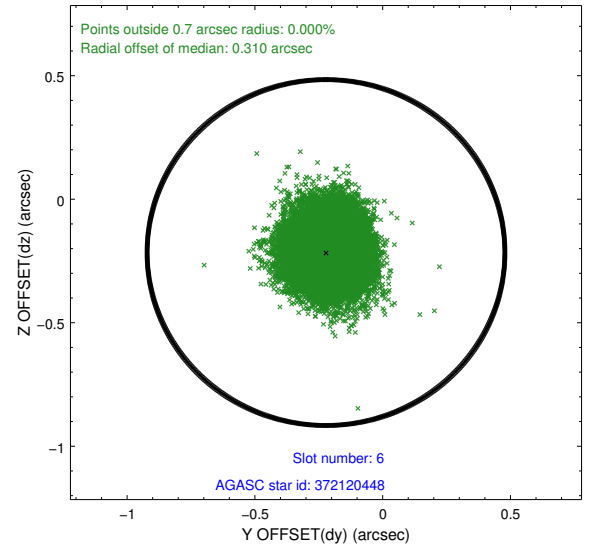
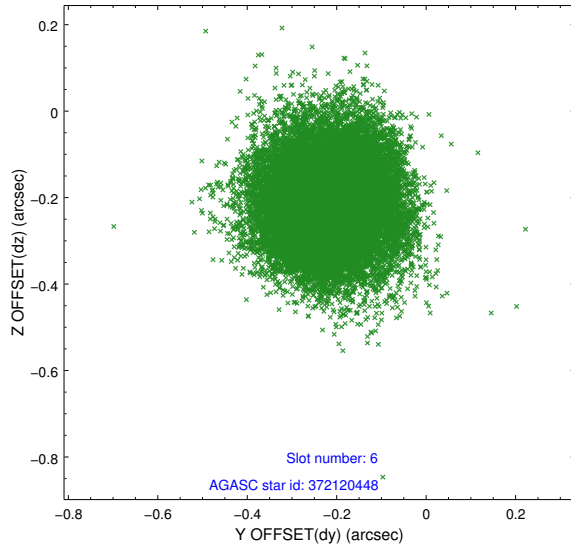
2.4.2 Slot 4



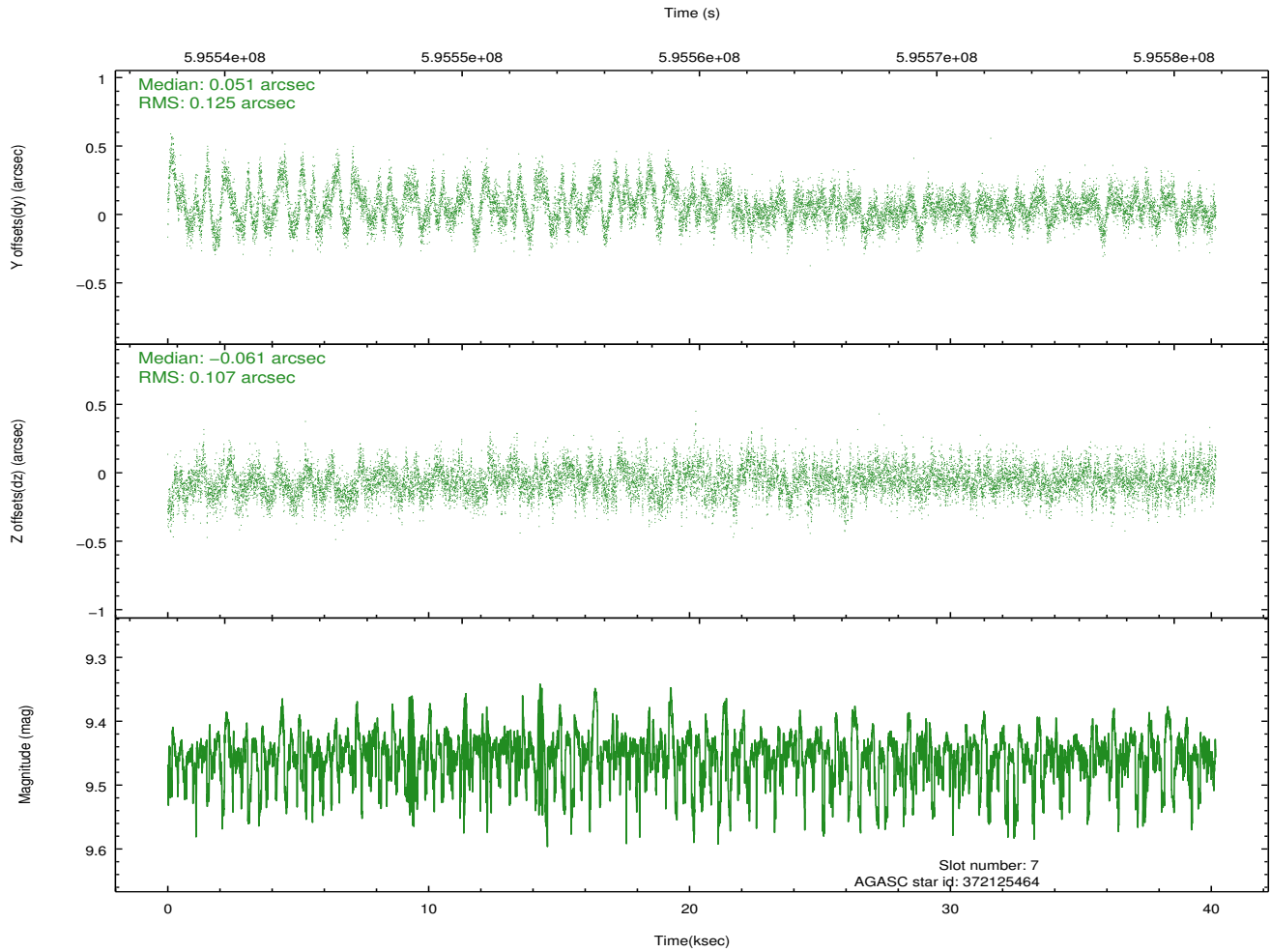
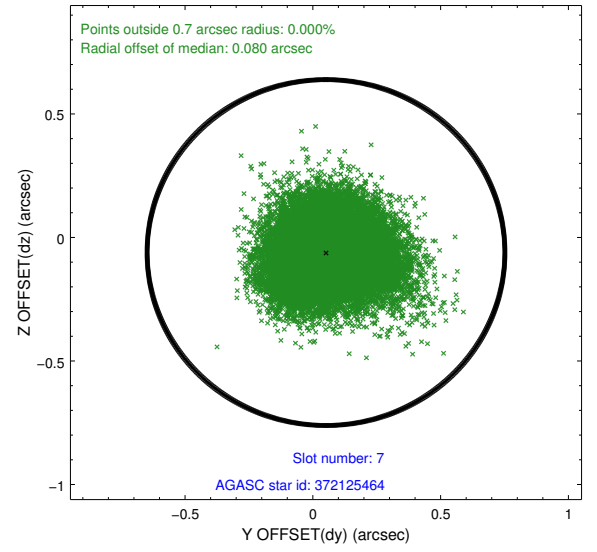
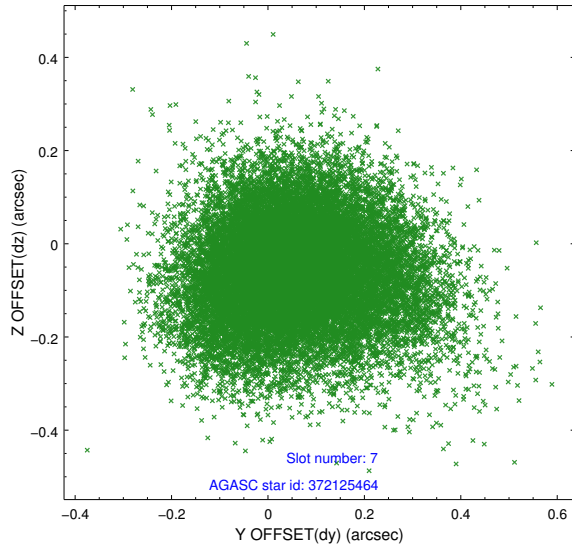
2.4.3 Slot 5



2.4.4 Slot 6

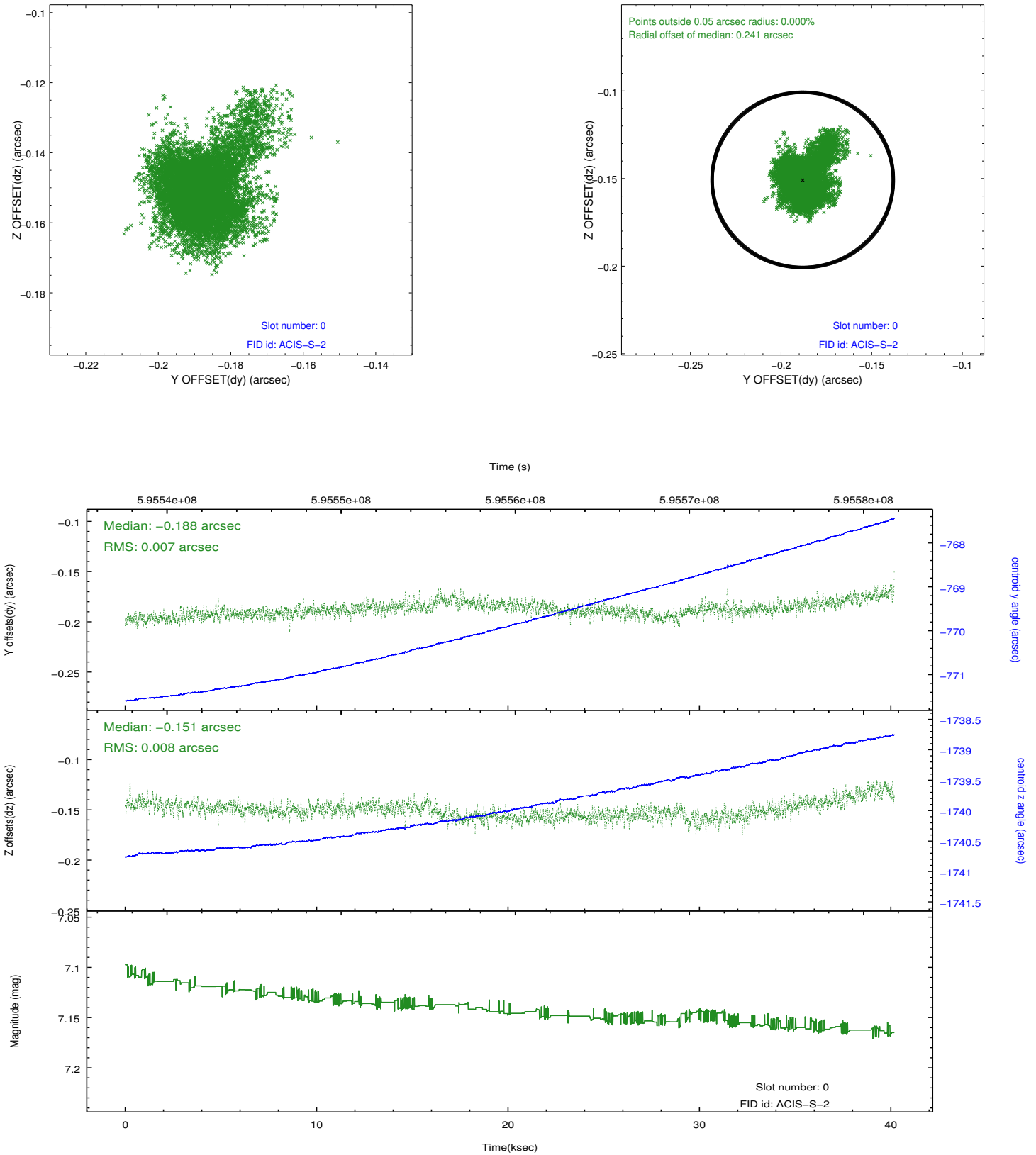


2.4.5 Slot 7

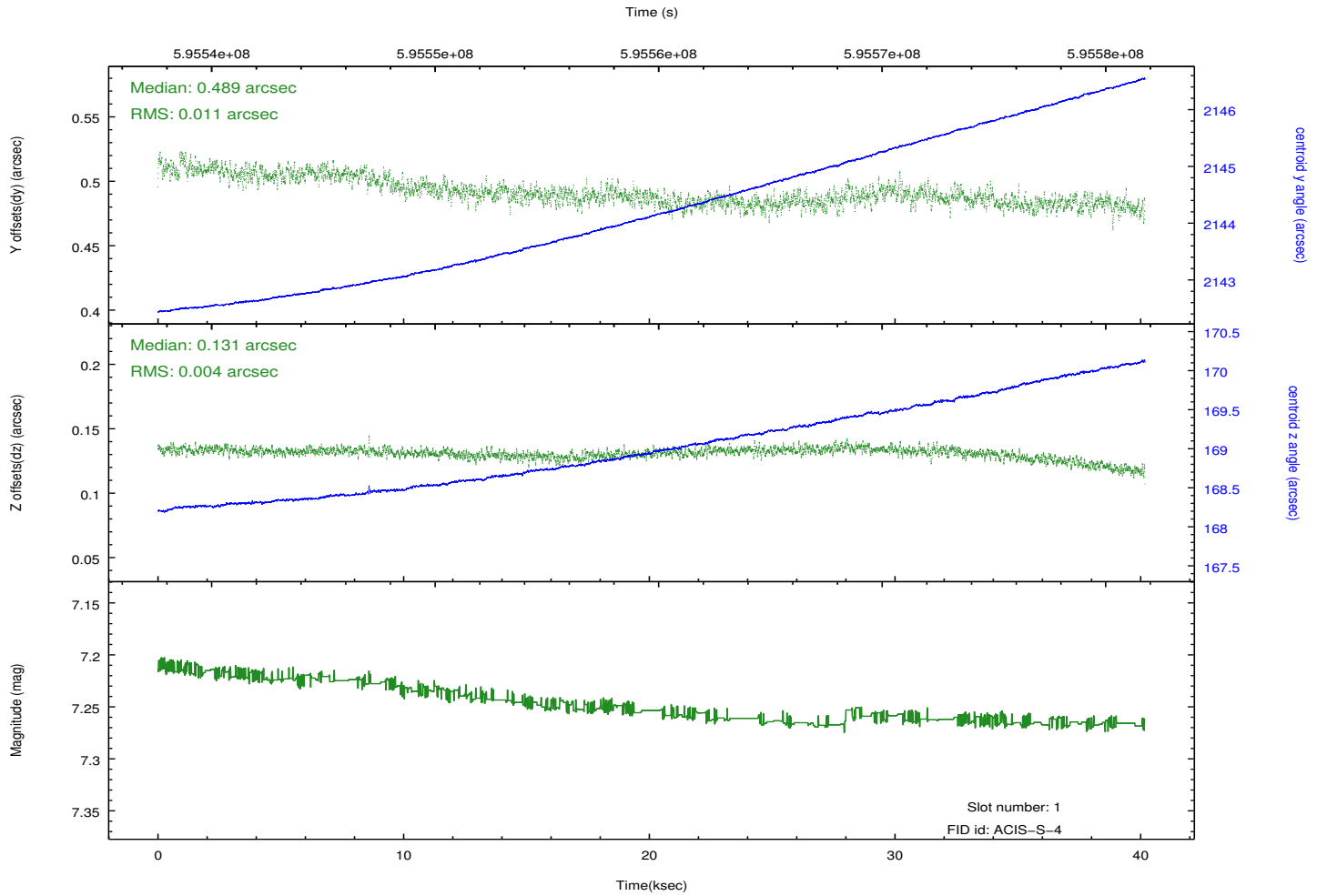
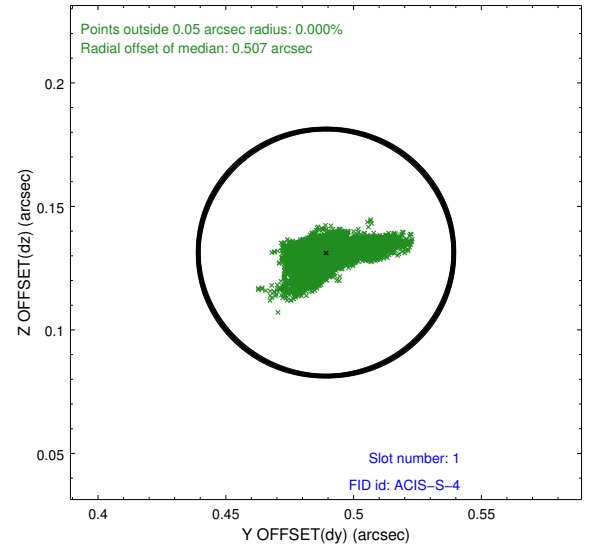
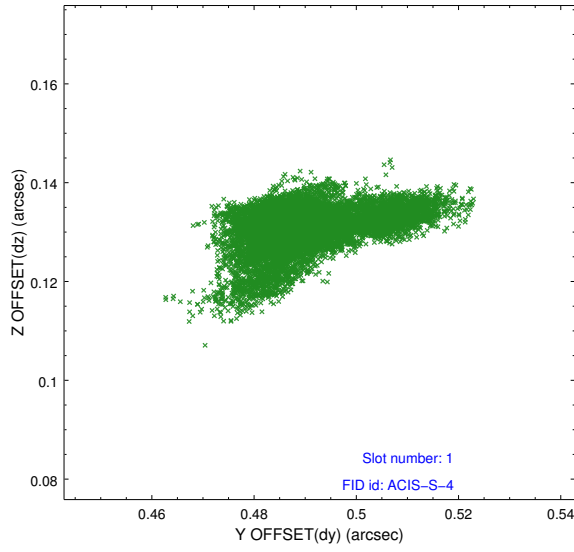


2.5 FID Slots

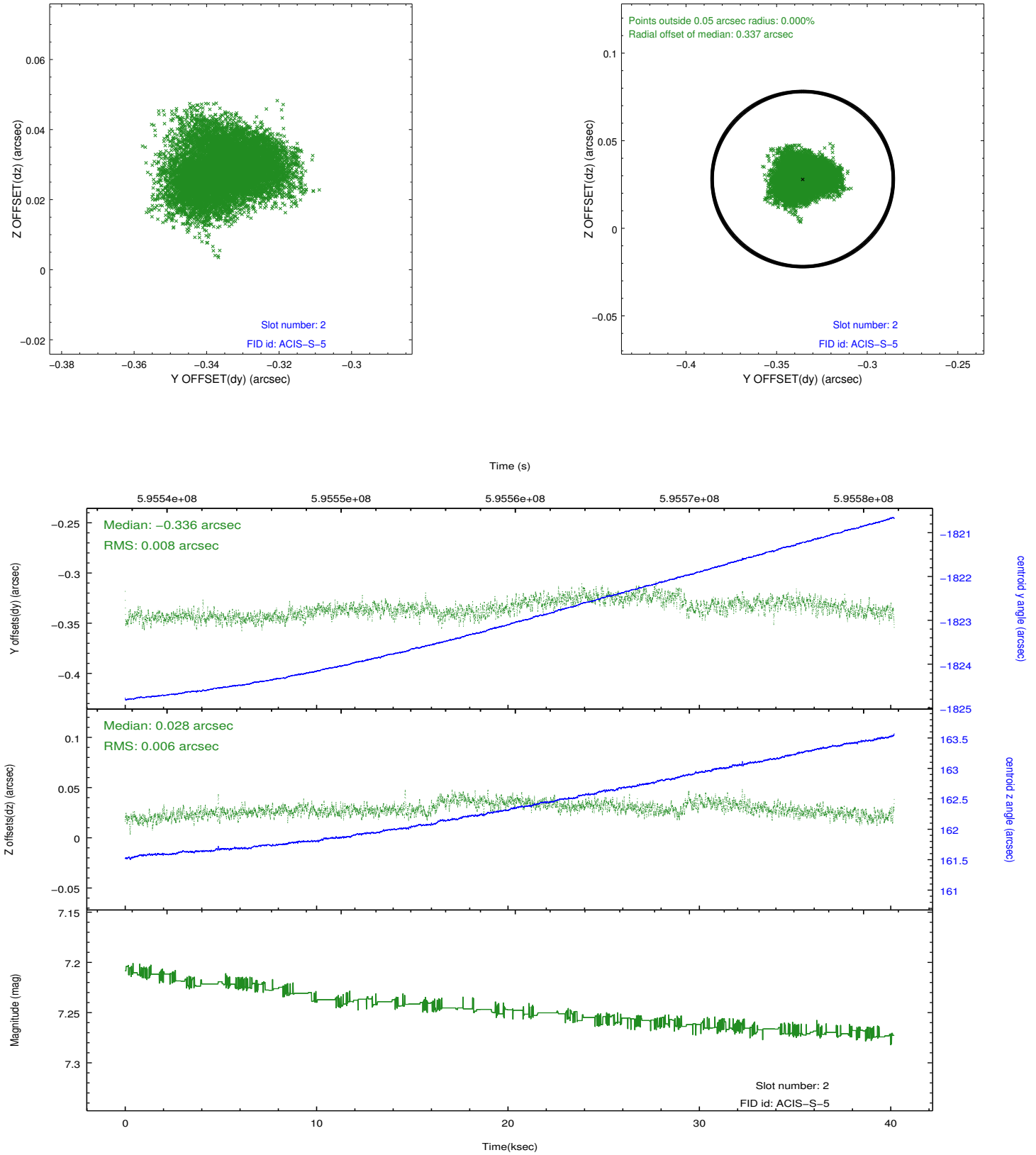
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.061300308228

A.2 Comments

Optional chip I2 was dropped.