

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 16449 - L2 Version 1
Chandra X-Ray Center

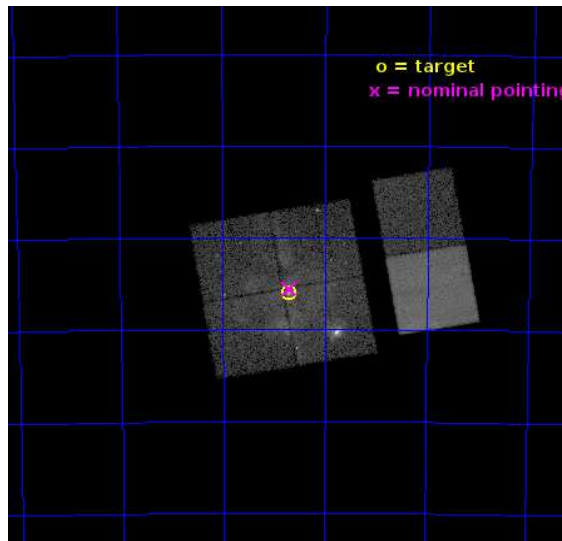
L2 Processing Date : Sep 30 2015

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1 Front

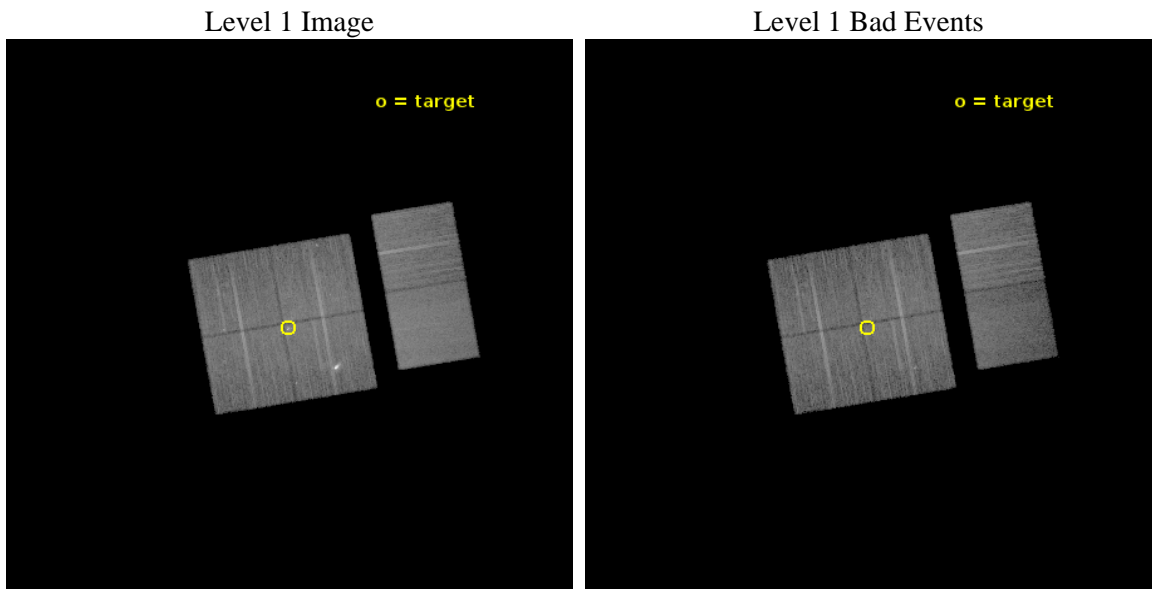
seq_num	901116	Sequence number
obs_id	16449	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.673585351513	Nominal RA [deg]
dec_nom	-69.092691116794	Nominal Dec [deg]
roll_nom	80.205796193602	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24943.959351659	Sum of GTIs [s]
livetime	24628.103918899	Livetime [s]
ontime0	24943.959341407	Sum of GTIs [s]
ontime1	24947.200371742	Sum of GTIs [s]
ontime2	24947.200371742	Sum of GTIs [s]
ontime3	24943.959351659	Sum of GTIs [s]
ontime6	24947.200371742	Sum of GTIs [s]
ontime7	24947.200371742	Sum of GTIs [s]
l2events	164046	Number of level 2 events



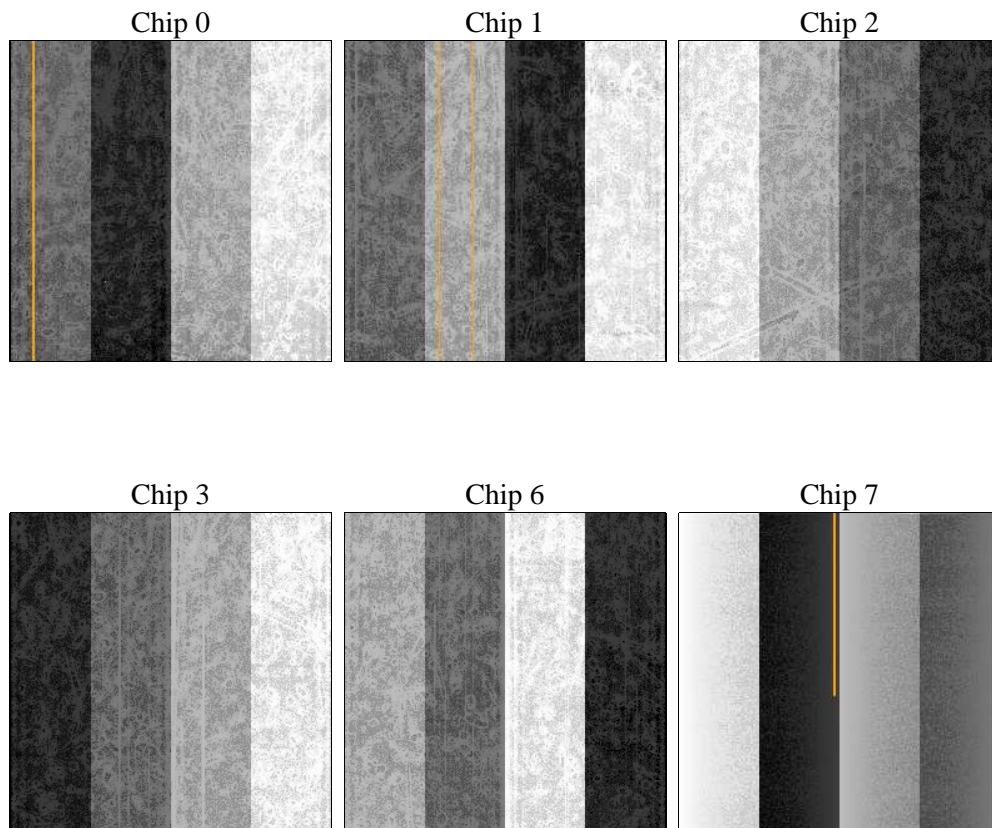
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	24943.959351659	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	24943.959341407	Sum of GTIs [s]
date	2015-09-30T19:43:26	Date and time of file creation	ontime1	24947.200371742	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24947.200371742	Sum of GTIs [s]
			ontime3	24943.959351659	Sum of GTIs [s]
			ontime6	24947.200371742	Sum of GTIs [s]
			ontime7	24947.200371742	Sum of GTIs [s]
			l1events	774879	Number of level 1 events

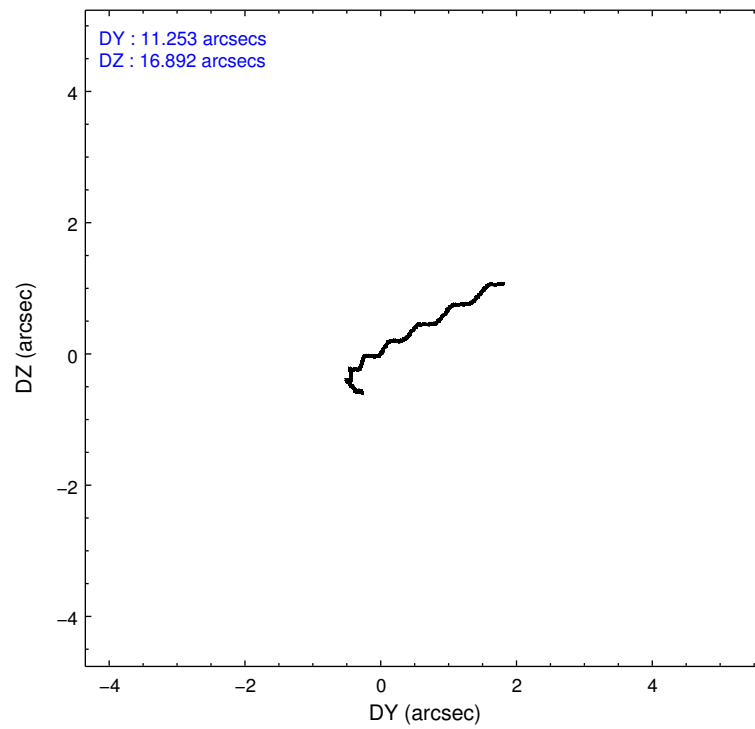
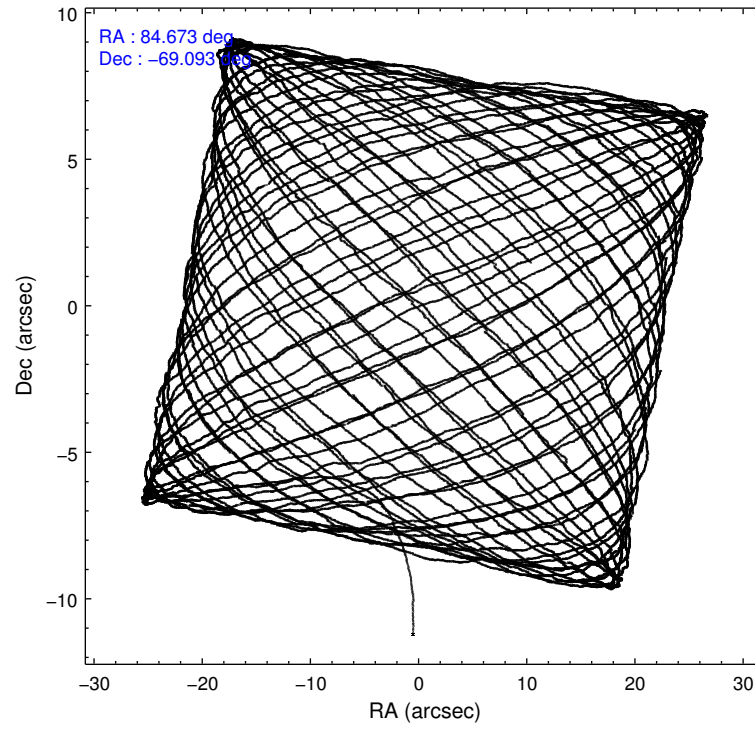
2.1.4 Events

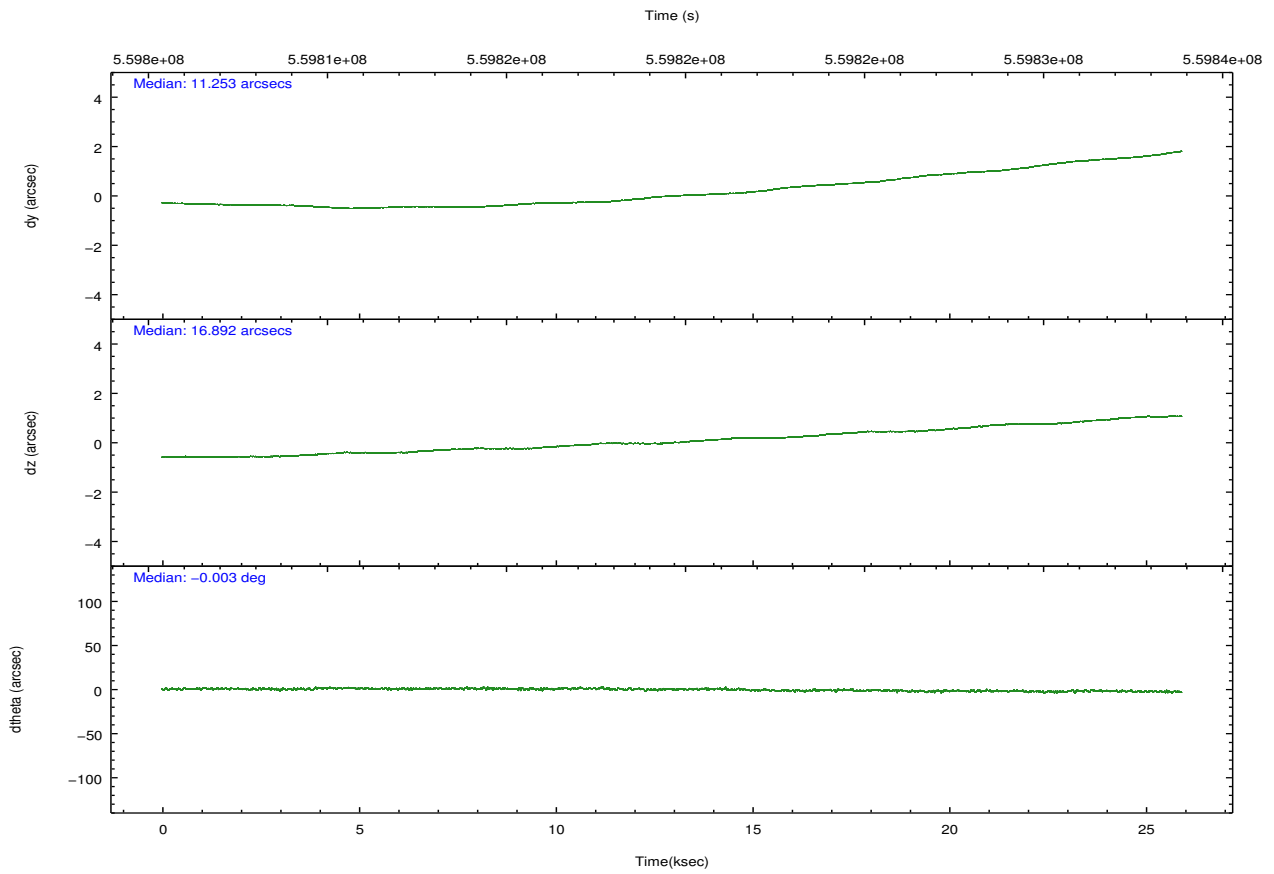
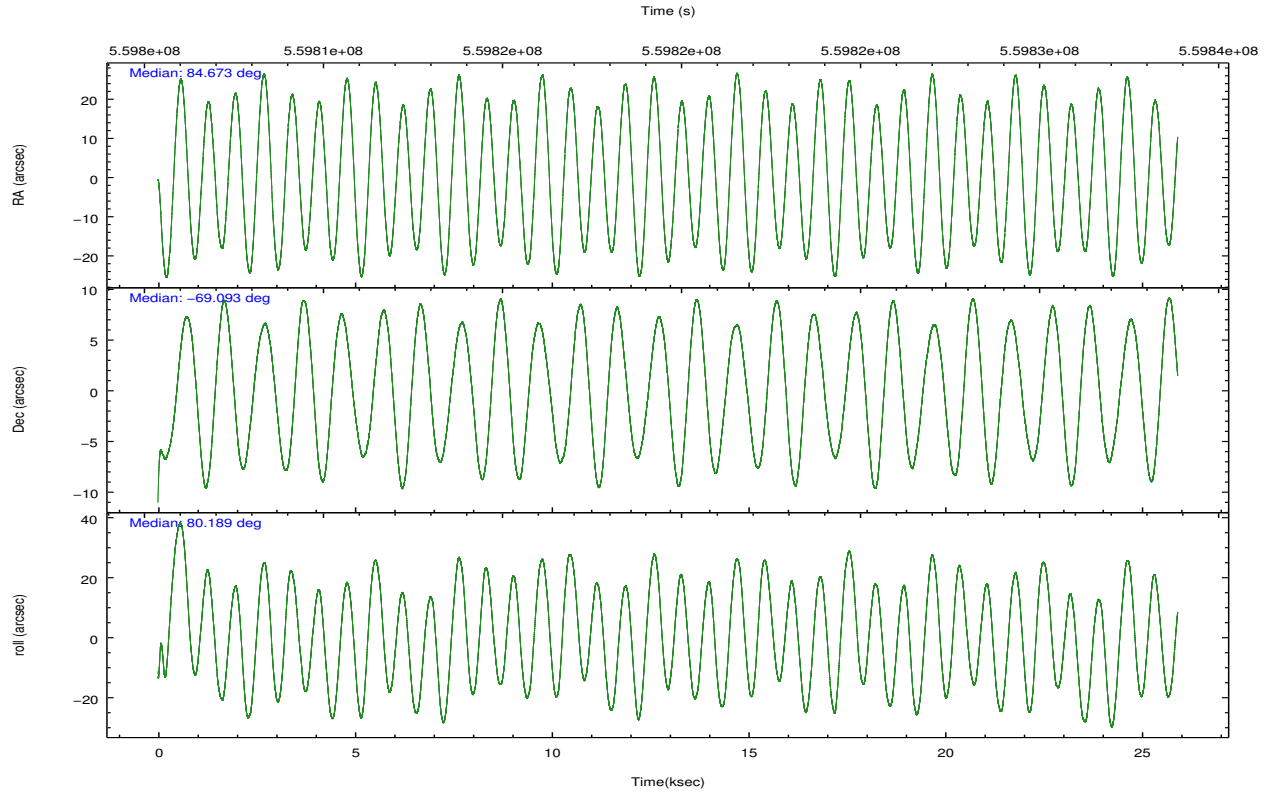
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	113818	117362	130698	143780	124290	144931	grade 0 events	8239	10027	10435	24284	5770	7216
rejected events	96135	96896	110701	106832	108982	75643		7%	8%	7%	16%	4%	4%
rejected %	84%	82%	84%	74%	87%	52%	grade 1 events	60	79	93	178	64	251
								0%	0%	0%	0%	0%	0%
							grade 2 events	3879	4036	3936	5335	3511	15209
								3%	3%	3%	3%	2%	10%
							grade 3 events	1431	1650	1498	2083	1469	5870
								1%	1%	1%	1%	1%	4%
							grade 4 events	1432	1605	1520	2033	1409	5940
								1%	1%	1%	1%	1%	4%
							grade 5 events	4641	5078	4465	5554	5498	14943
								4%	4%	3%	3%	4%	10%
							grade 6 events	2710	3150	2613	3222	3151	35069
								2%	2%	1%	2%	2%	24%
							grade 7 events	91426	91737	106138	101091	103418	60433
								80%	78%	81%	70%	83%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	84.700648	84.67358535151321	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.118544	-69.0926911167937	CCD I3 on	Y	Y
[deg] Pointing Roll	80.022404	80.2057961936017	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	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	559807550.184000	559805714.0636899	CCD S5 on	N	N
Observation start date	2015-09-28T06:04:42	2015-09-28T05:35:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	559832550.184000	559833417.2527601	On-chip summing requested	N	N
Observation end date	2015-09-28T13:01:22	2015-09-28T13:16:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



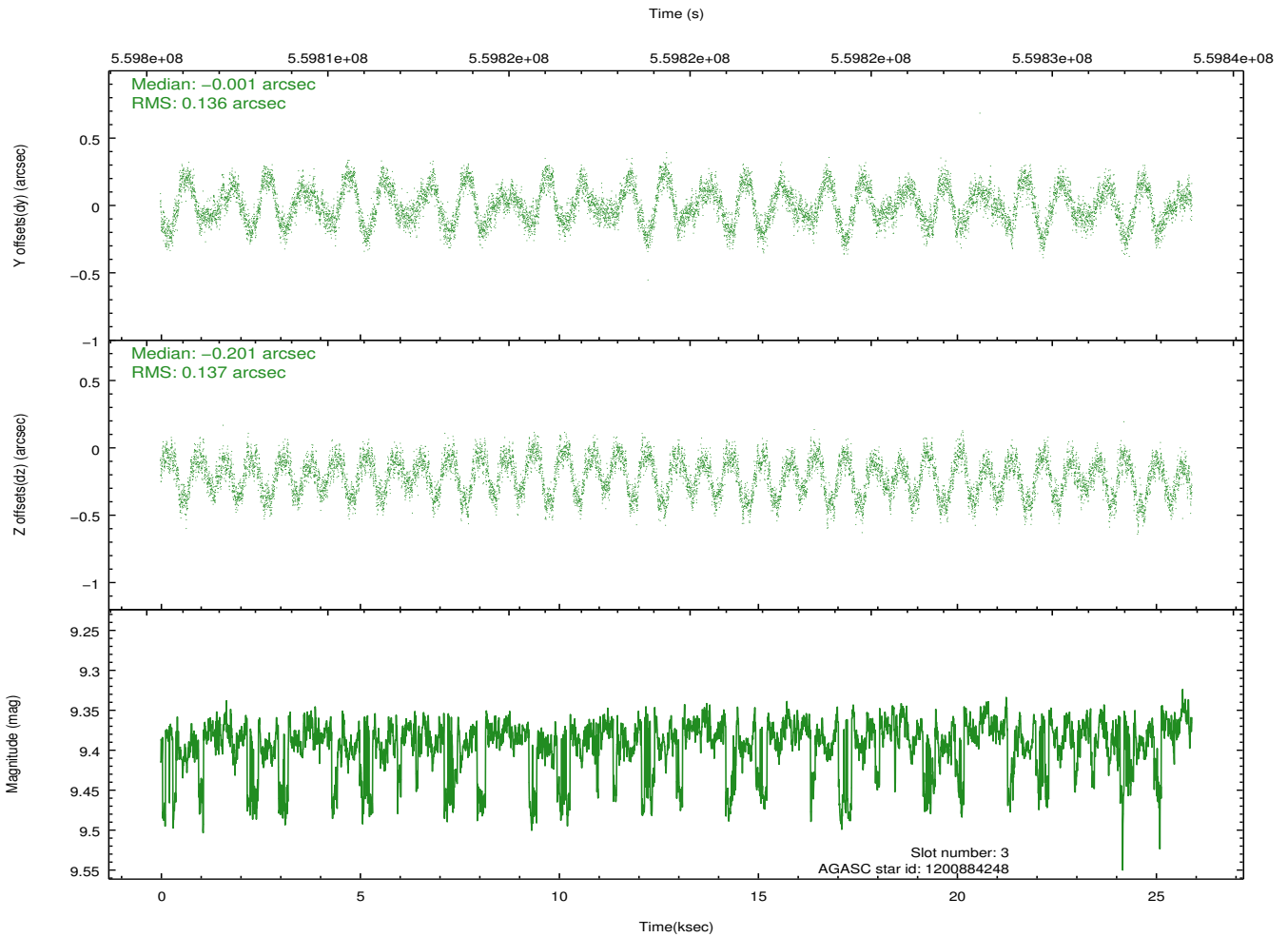
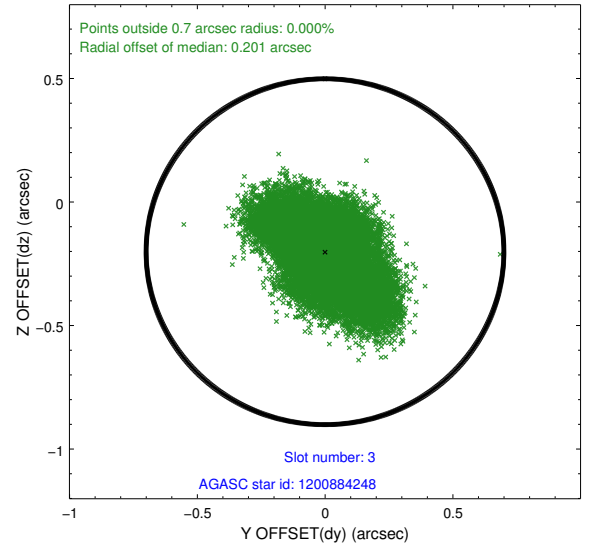
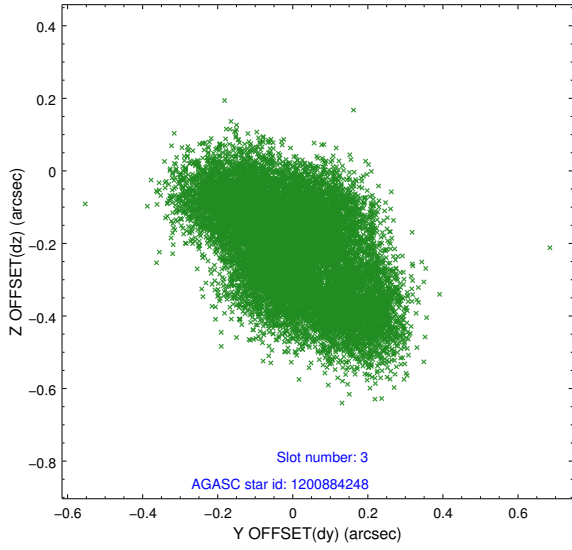


Slot Statistics

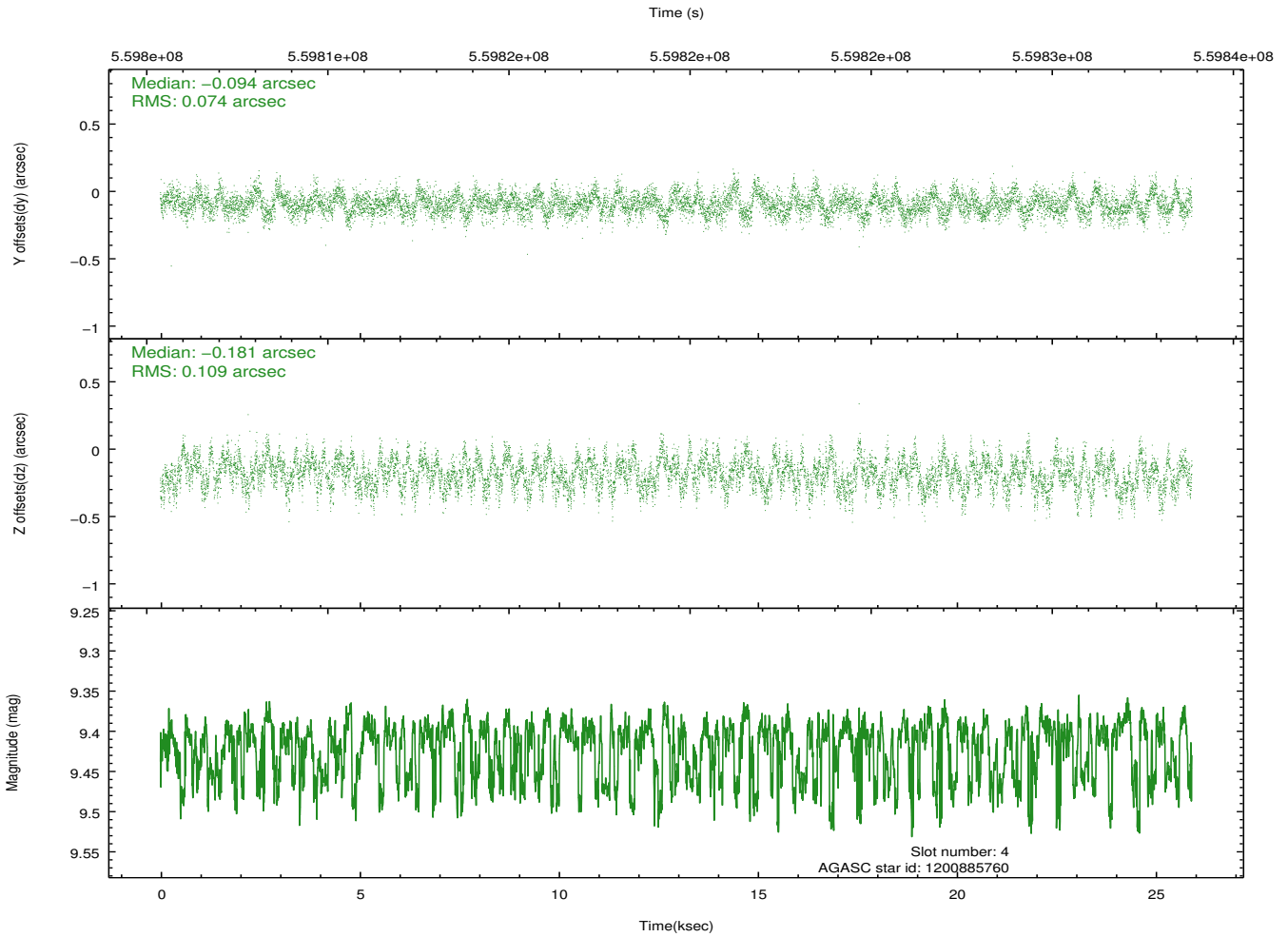
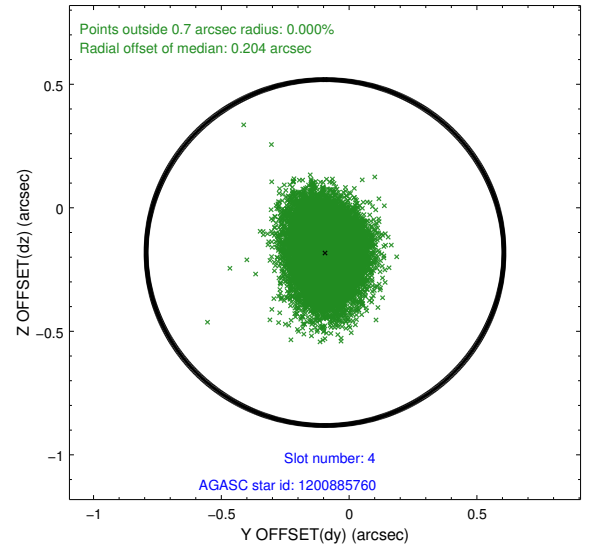
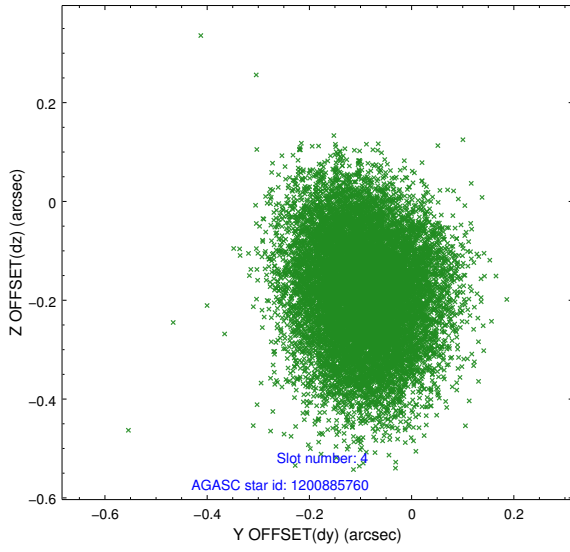
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.14	6322	-0.207	-0.139	0.022	0.040	0.000000	0.000000	-766.30	-847.16
1	FID		ACIS-I-4	7.16	6322	0.397	0.147	0.013	0.045	0.000000	0.000000	2148.29	1059.27
2	FID		ACIS-I-5	7.24	6322	-0.292	0.060	0.021	0.047	0.000000	0.000000	-1820.10	1057.11
3	GUIDE	used	1200884248	9.39	12623	-0.001	-0.201	0.210	0.322	83.880915	-68.565170	1768.46	1405.78
4	GUIDE	used	1200885760	9.41	12471	-0.094	-0.181	0.142	0.226	83.723637	-68.777667	977.76	1464.51
5	GUIDE	used	1201018312	9.58	12634	0.096	0.287	0.198	0.300	86.298231	-69.115627	340.39	-2021.54
6	GUIDE	used	1201018384	9.07	12567	0.083	-0.002	0.120	0.191	85.801362	-68.593260	2101.30	-1099.45
7	GUIDE	used	1201020040	8.60	12636	-0.092	0.118	0.091	0.153	85.379163	-68.879396	996.28	-718.42

2.4 Star Slots

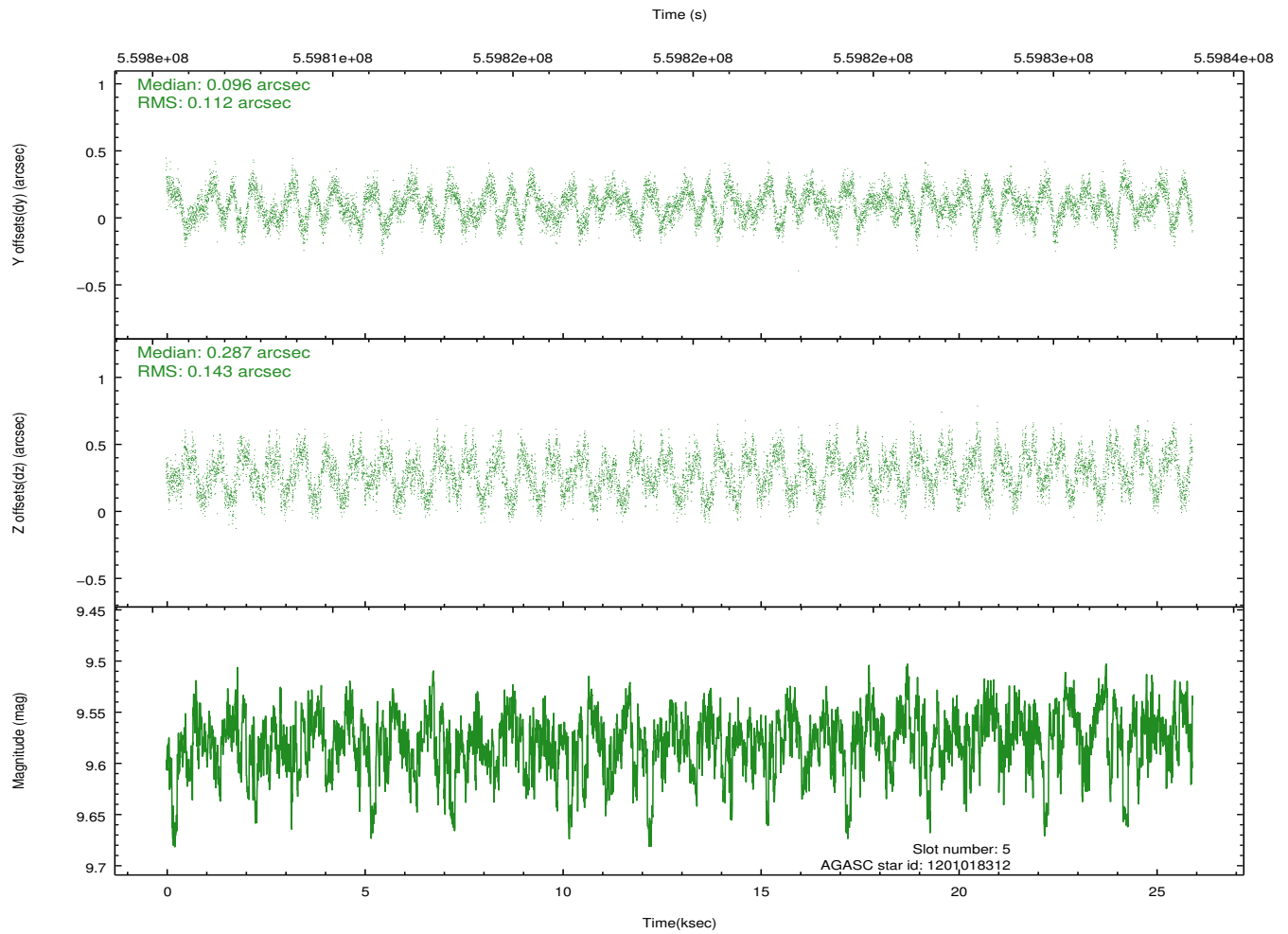
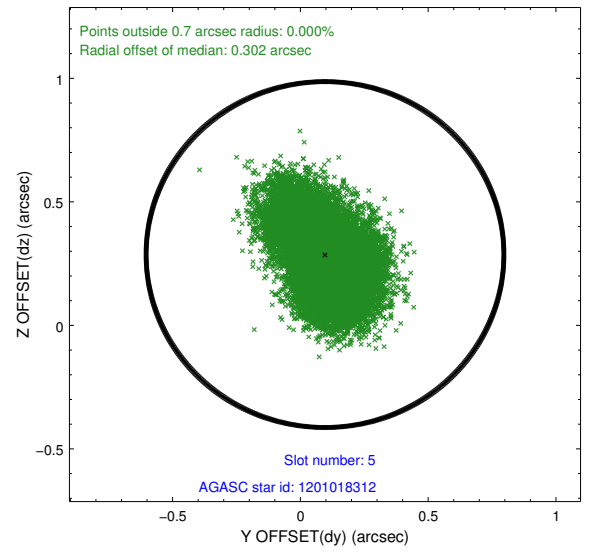
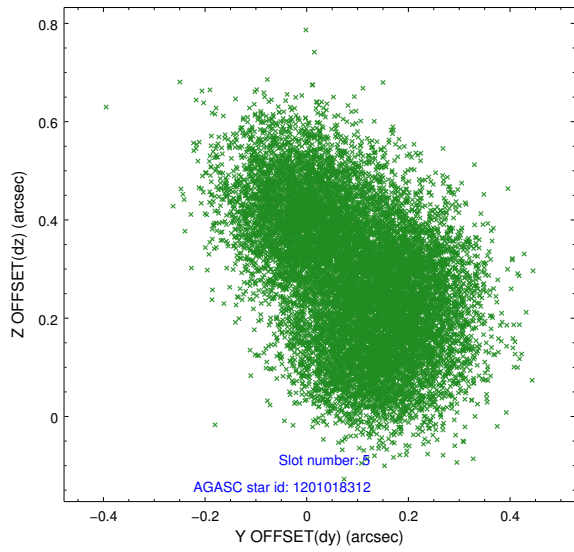
2.4.1 Slot 3



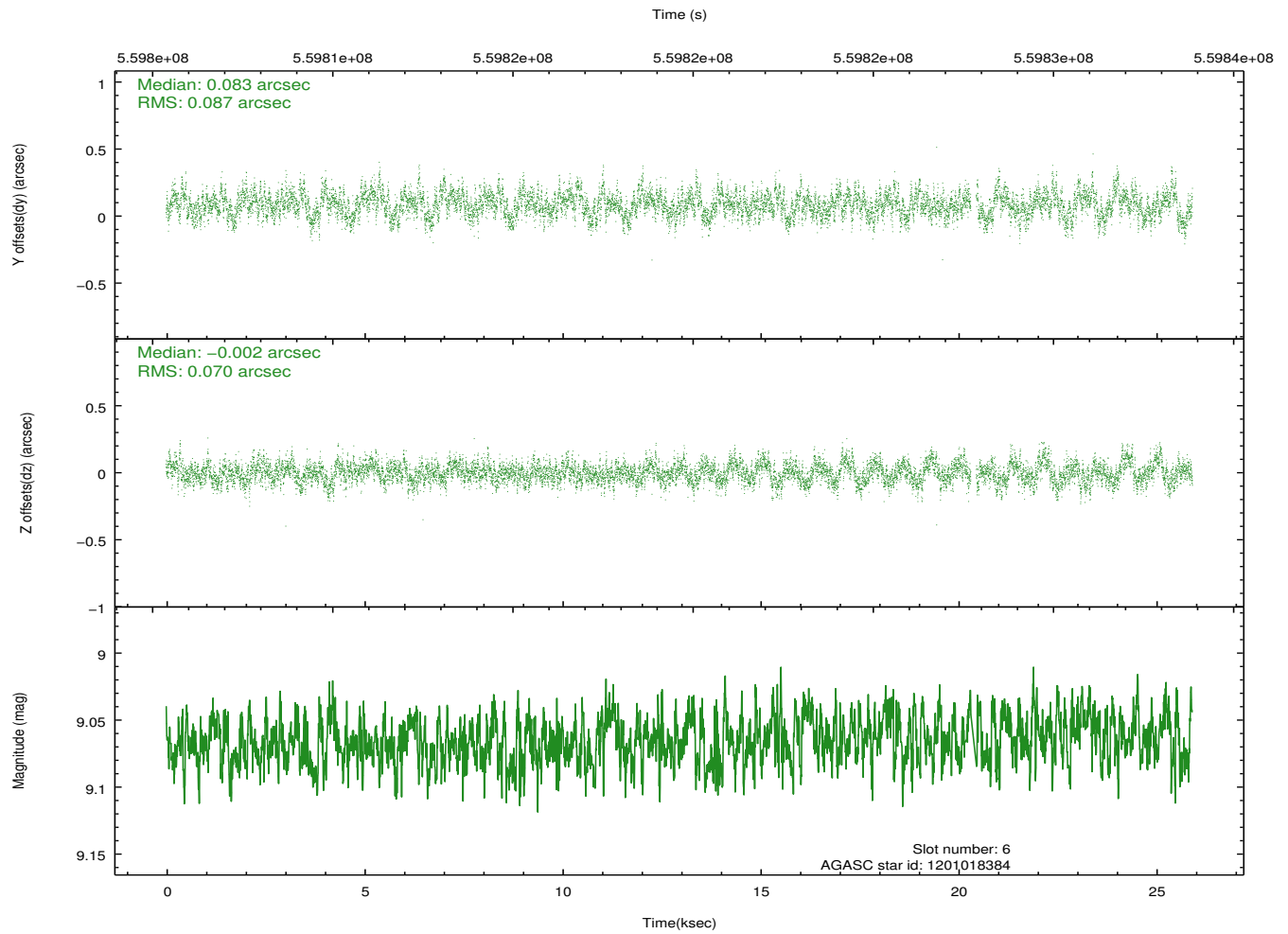
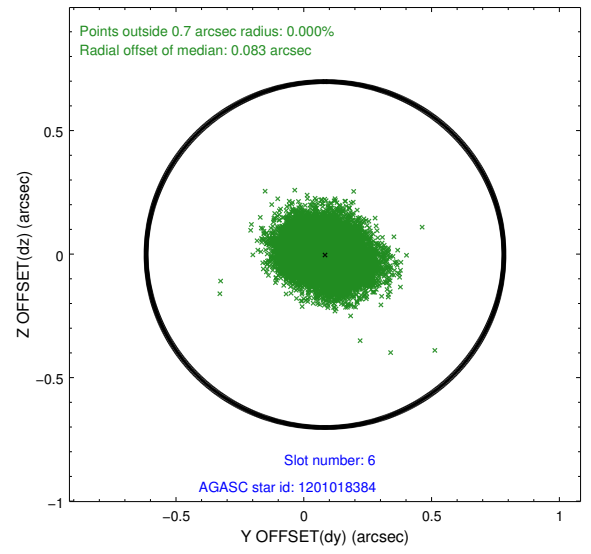
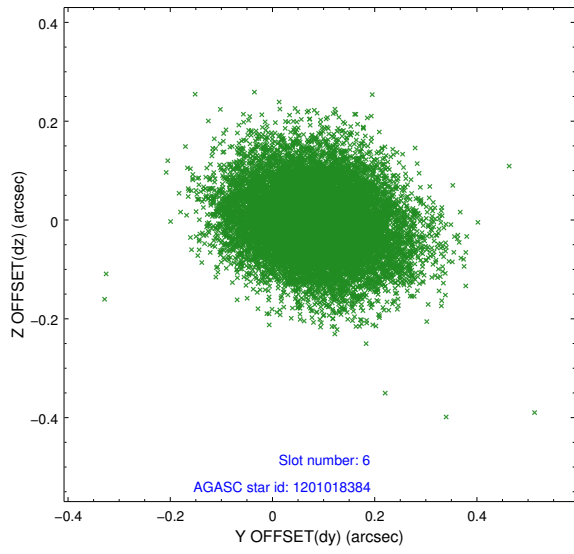
2.4.2 Slot 4



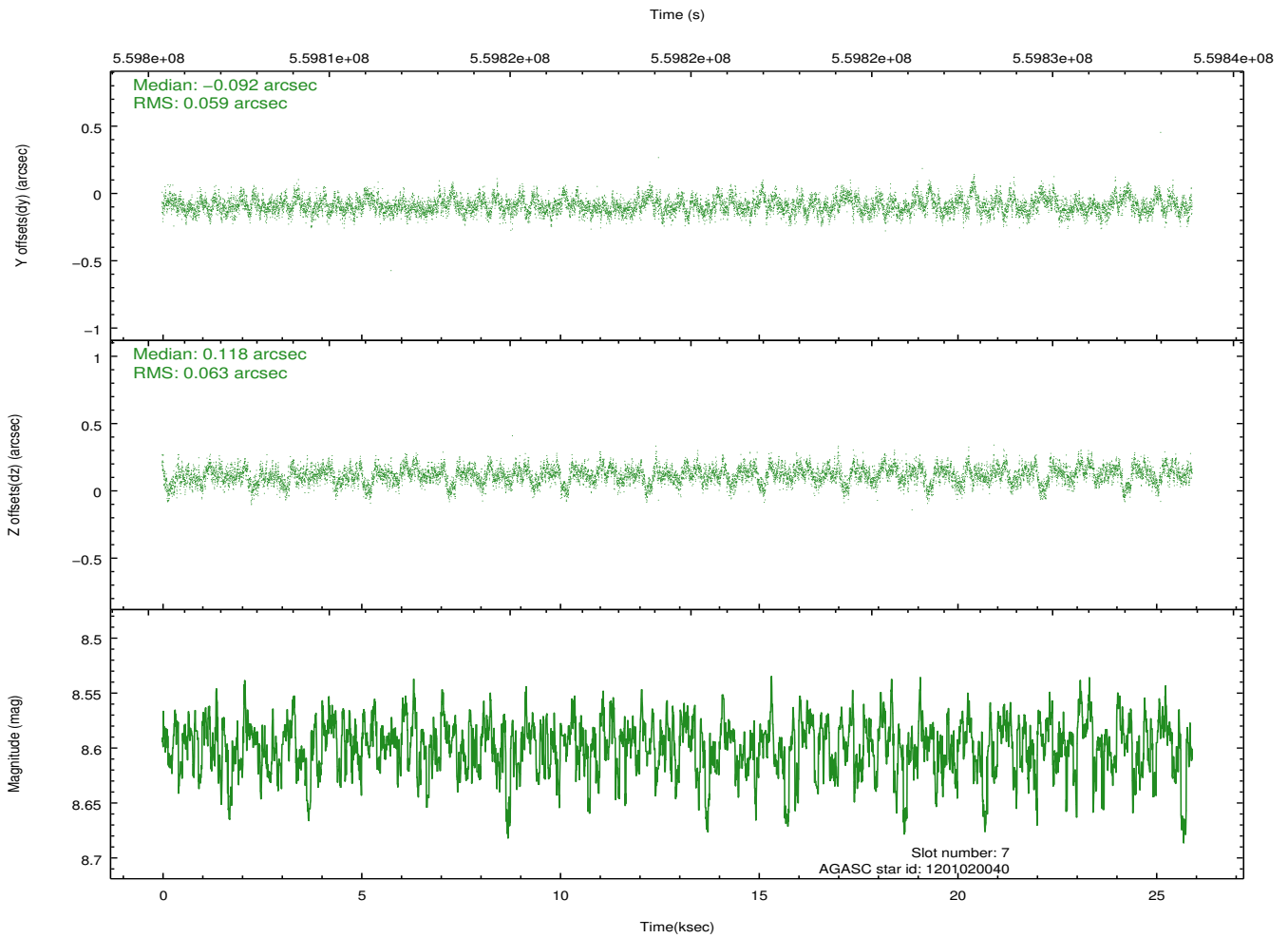
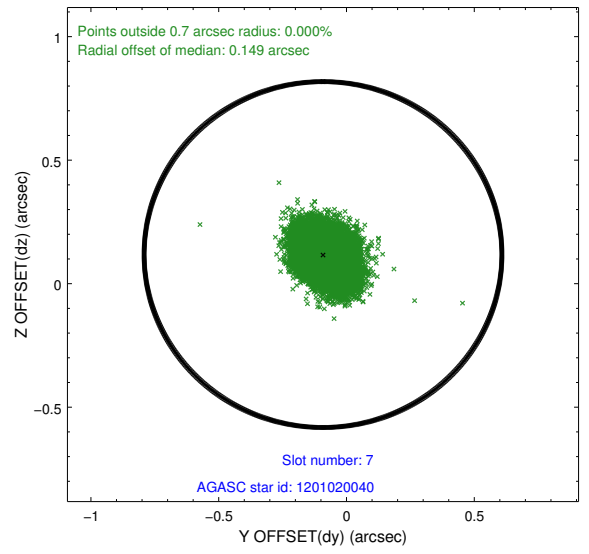
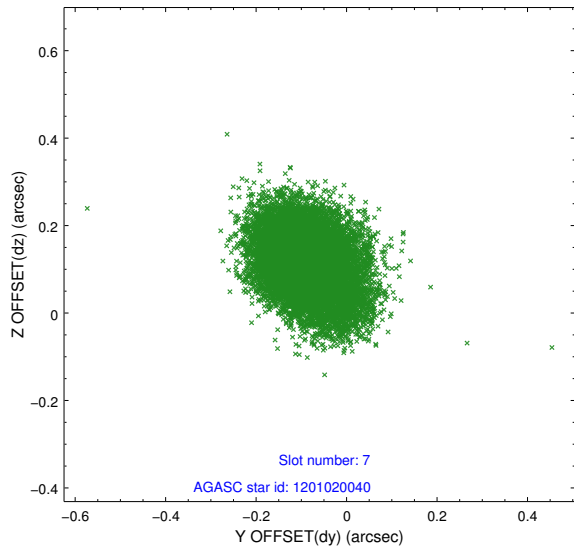
2.4.3 Slot 5



2.4.4 Slot 6

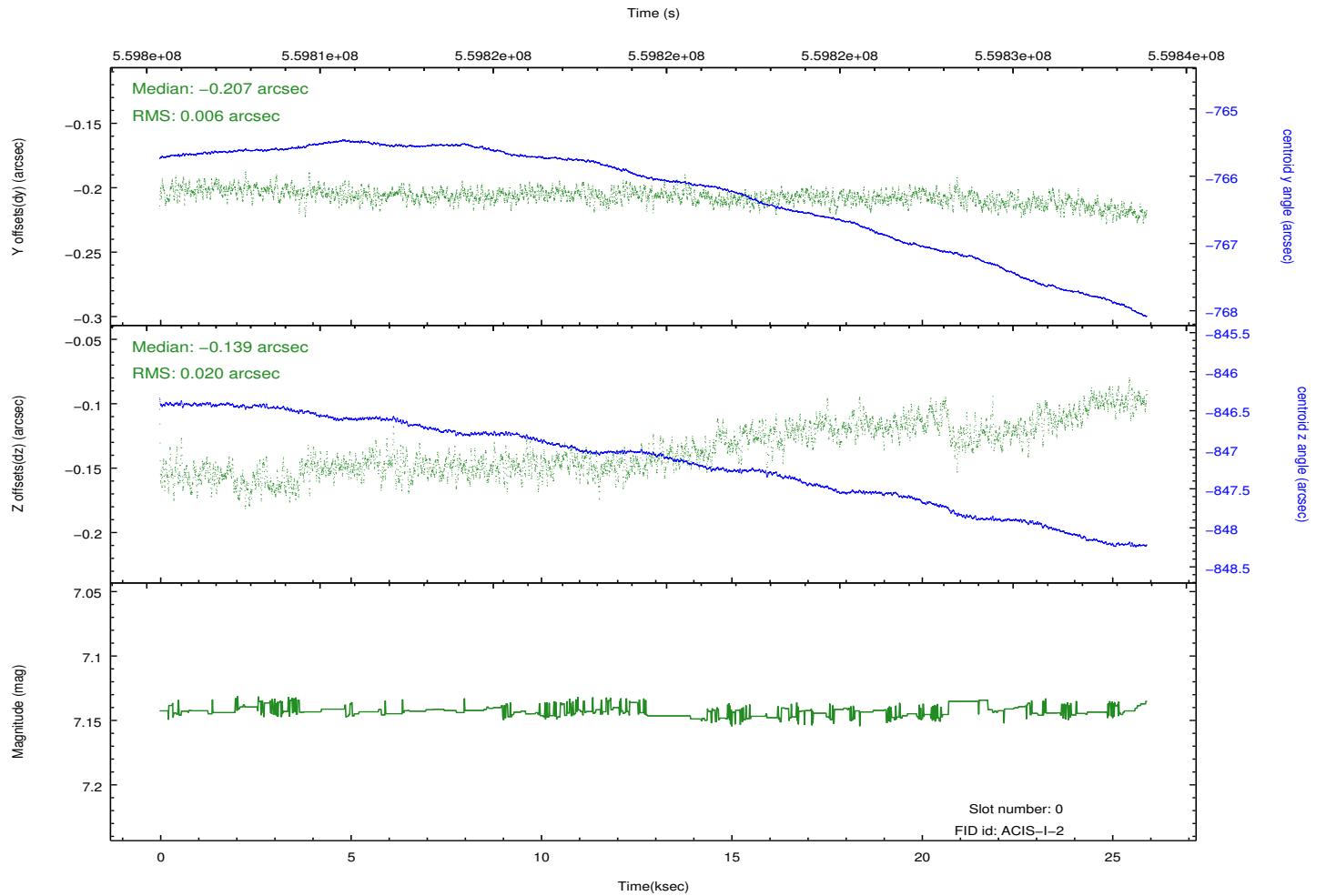
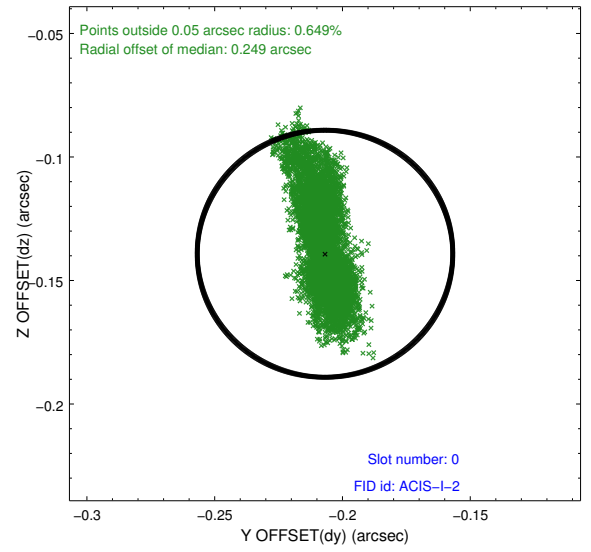
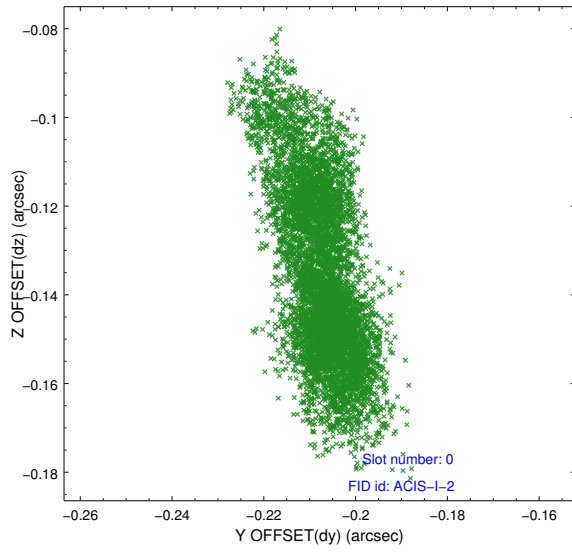


2.4.5 Slot 7

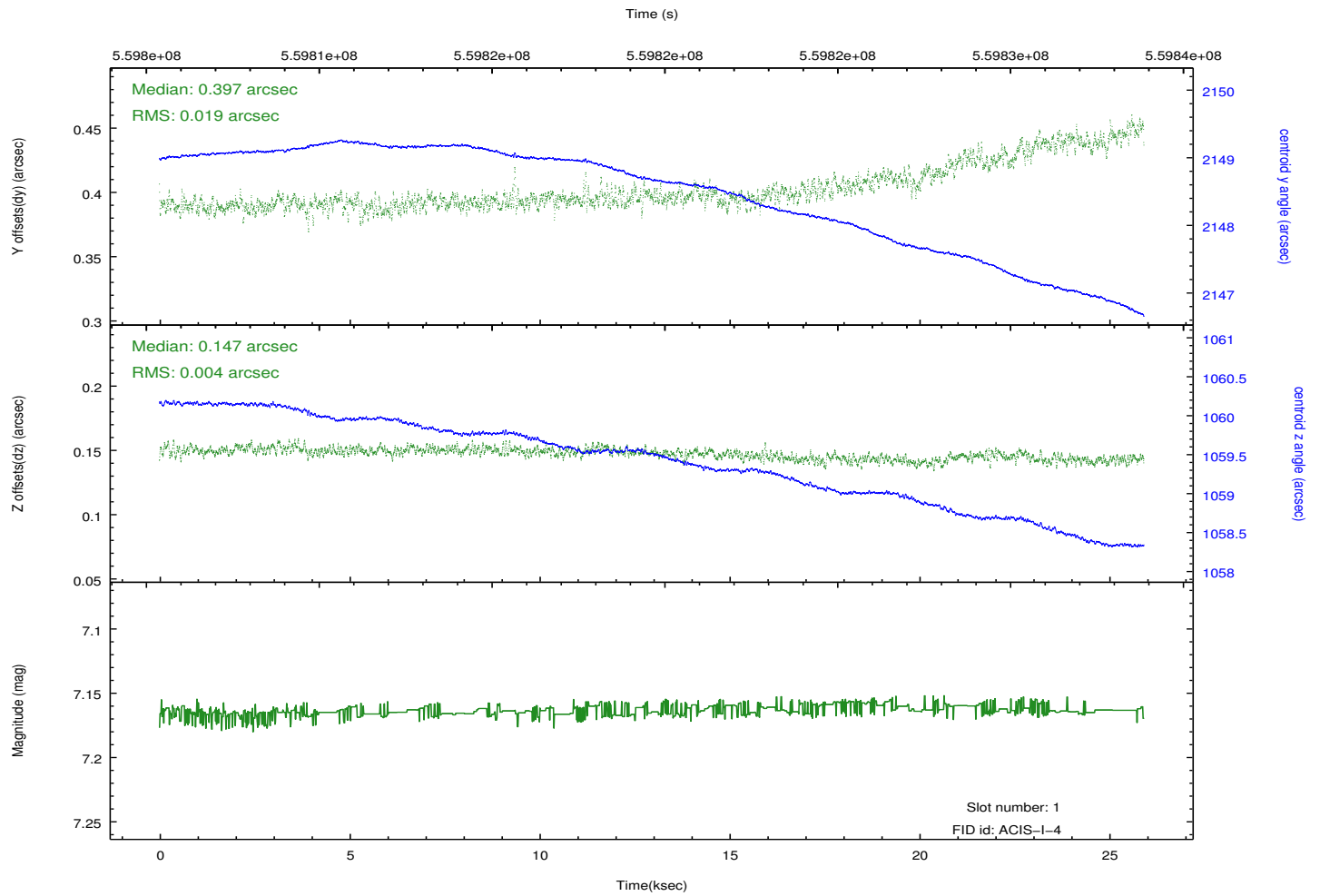
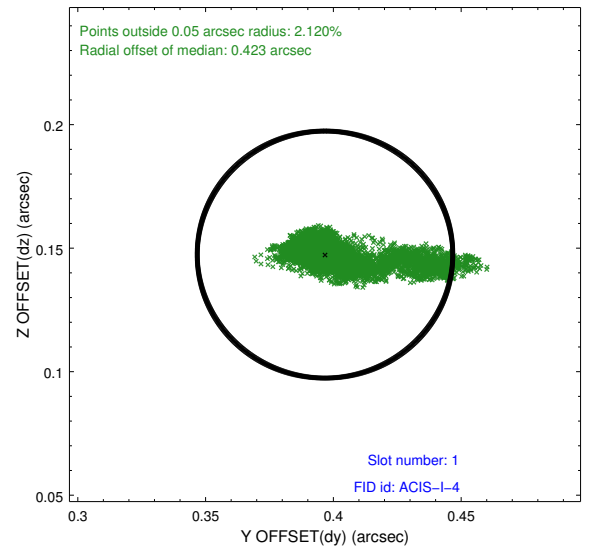
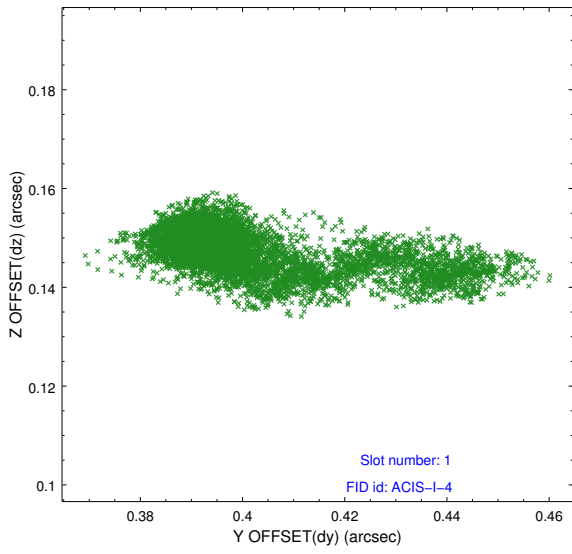


2.5 FID Slots

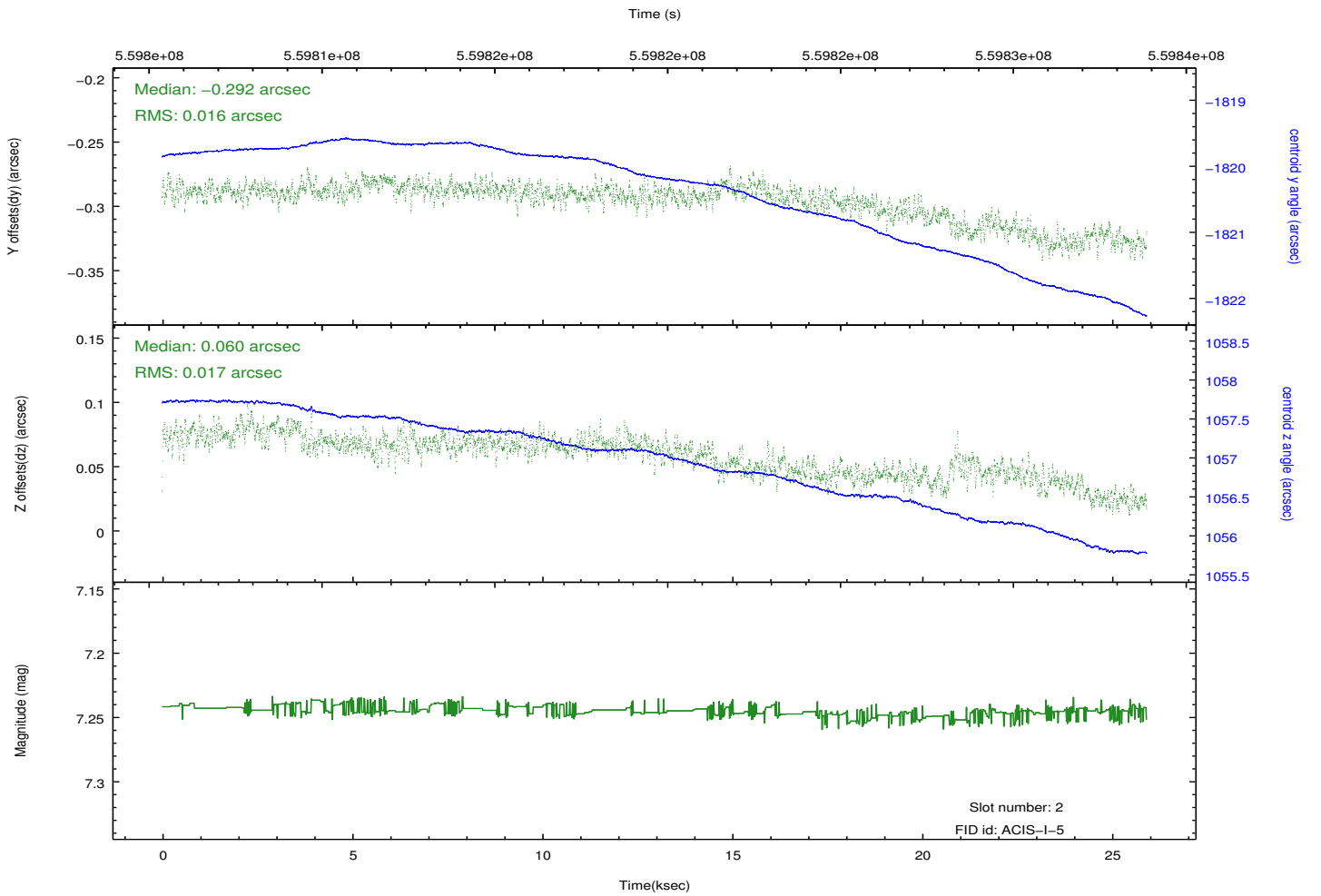
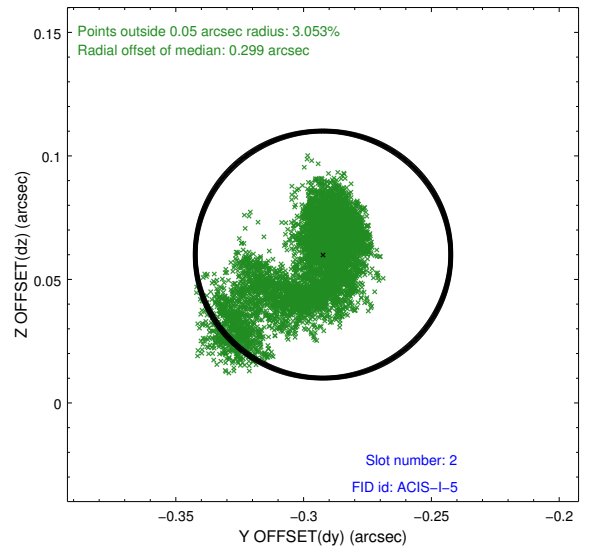
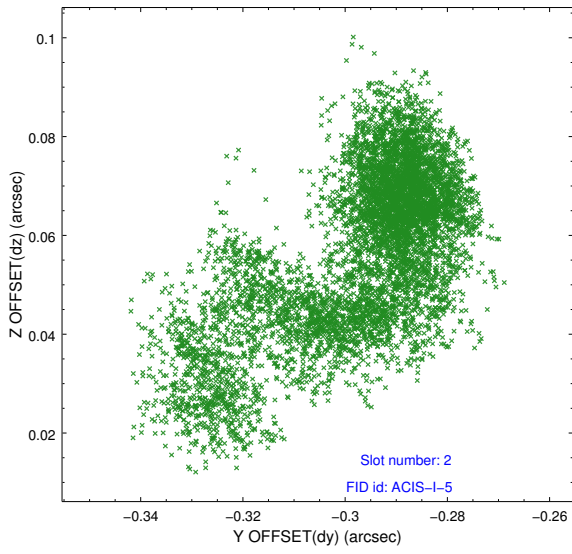
2.5.1 Slot 0



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)	2015.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.943959351659

A.2 Comments