

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 20779 - L2 Version 1
Chandra X-Ray Center

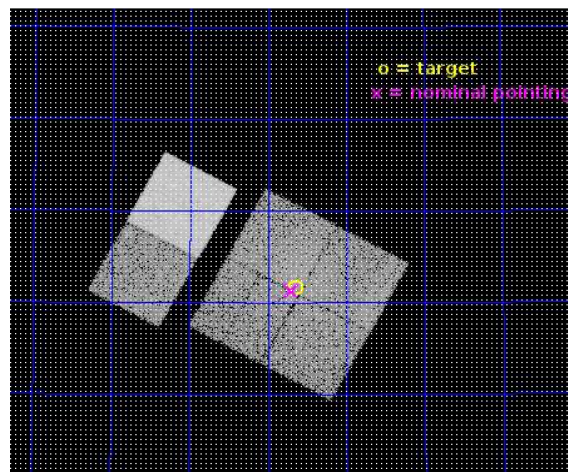
L2 Processing Date : Sep 6 2018

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1 Front

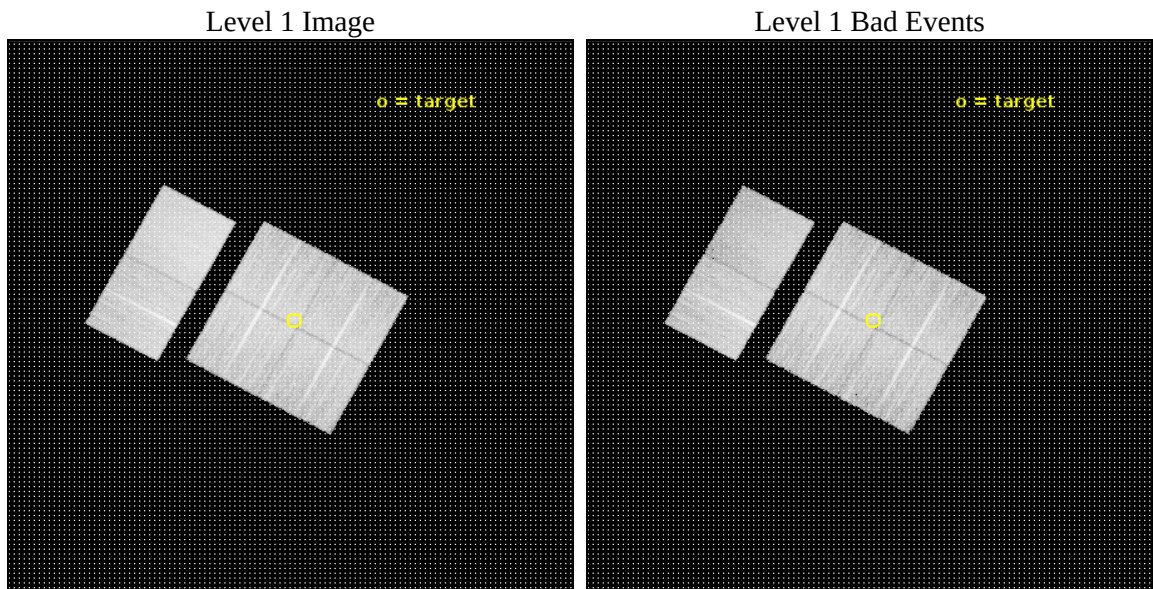
seq_num	801792	Sequence number
obs_id	20779	Observation id
title	A first characterization of galaxy clusters hosting diffuse low-frequency radio emission	Proposal title
observer	Ralph Kraft	Principal investigator
object	Abell 1925	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.159583	Observer's specified target RA [deg]
dec_targ	56.860917	Observer's specified target Dec [deg]
ra_nom	217.17481875739	Nominal RA [deg]
dec_nom	56.855204629552	Nominal Dec [deg]
roll_nom	298.51558295962	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15747.159303784	Sum of GTIs [s]
livetime	15547.759290879	Livetime [s]
ontime0	15750.400234699	Sum of GTIs [s]
ontime1	15750.400234699	Sum of GTIs [s]
ontime2	15750.400234699	Sum of GTIs [s]
ontime3	15747.159303784	Sum of GTIs [s]
ontime6	15747.15919435	Sum of GTIs [s]
ontime7	15750.400234699	Sum of GTIs [s]
l2events	124201	Number of level 2 events



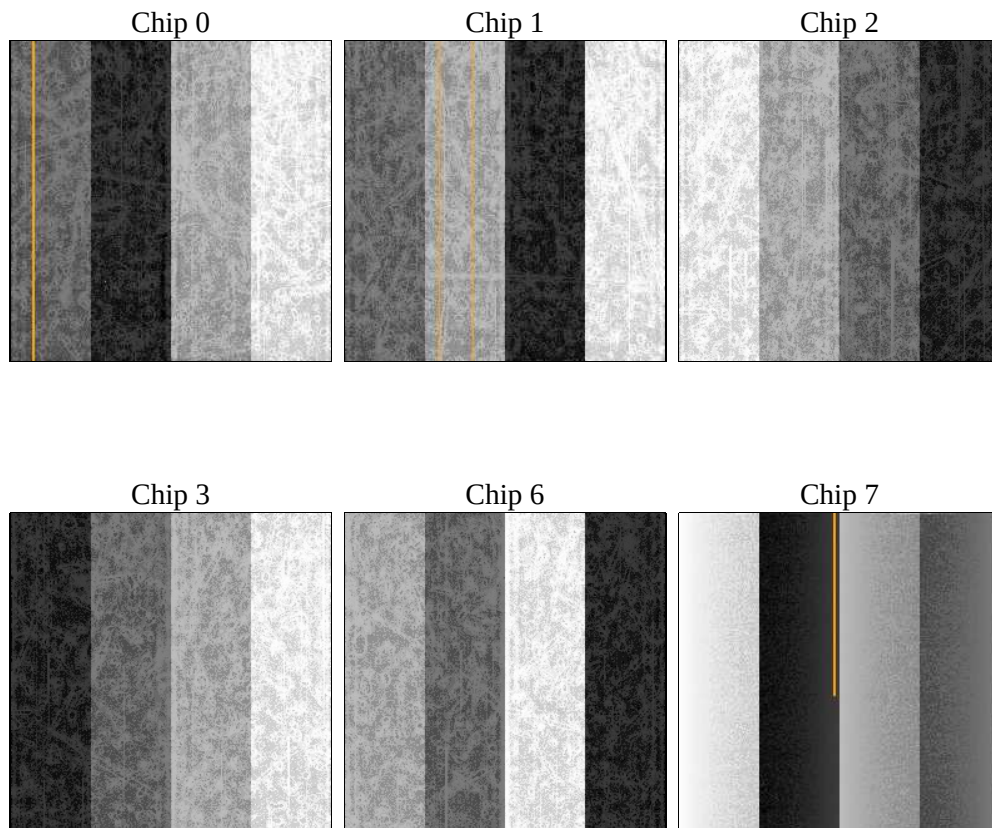
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15800.277000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	15747.159303784	Sum of GTIs [s]
caldsver	4.7.8	 	ontime0	15750.400234699	Sum of GTIs [s]
date	2018-09-06T03:54:06	Date and time of file creation	ontime1	15750.400234699	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15750.400234699	Sum of GTIs [s]
			ontime3	15747.159303784	Sum of GTIs [s]
			ontime6	15747.15919435	Sum of GTIs [s]
			ontime7	15750.400234699	Sum of GTIs [s]
			l1events	743082	Number of level 1 events

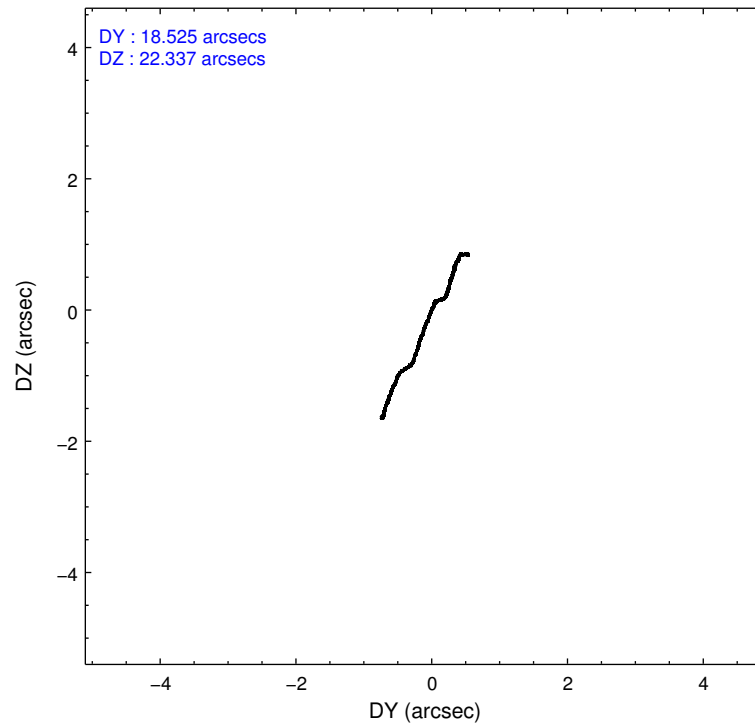
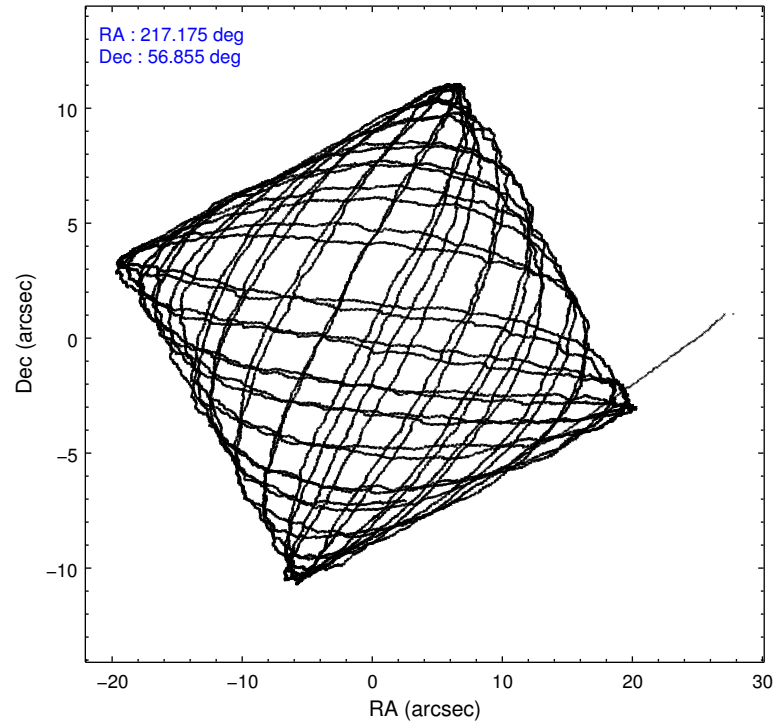
2.1.4 Events

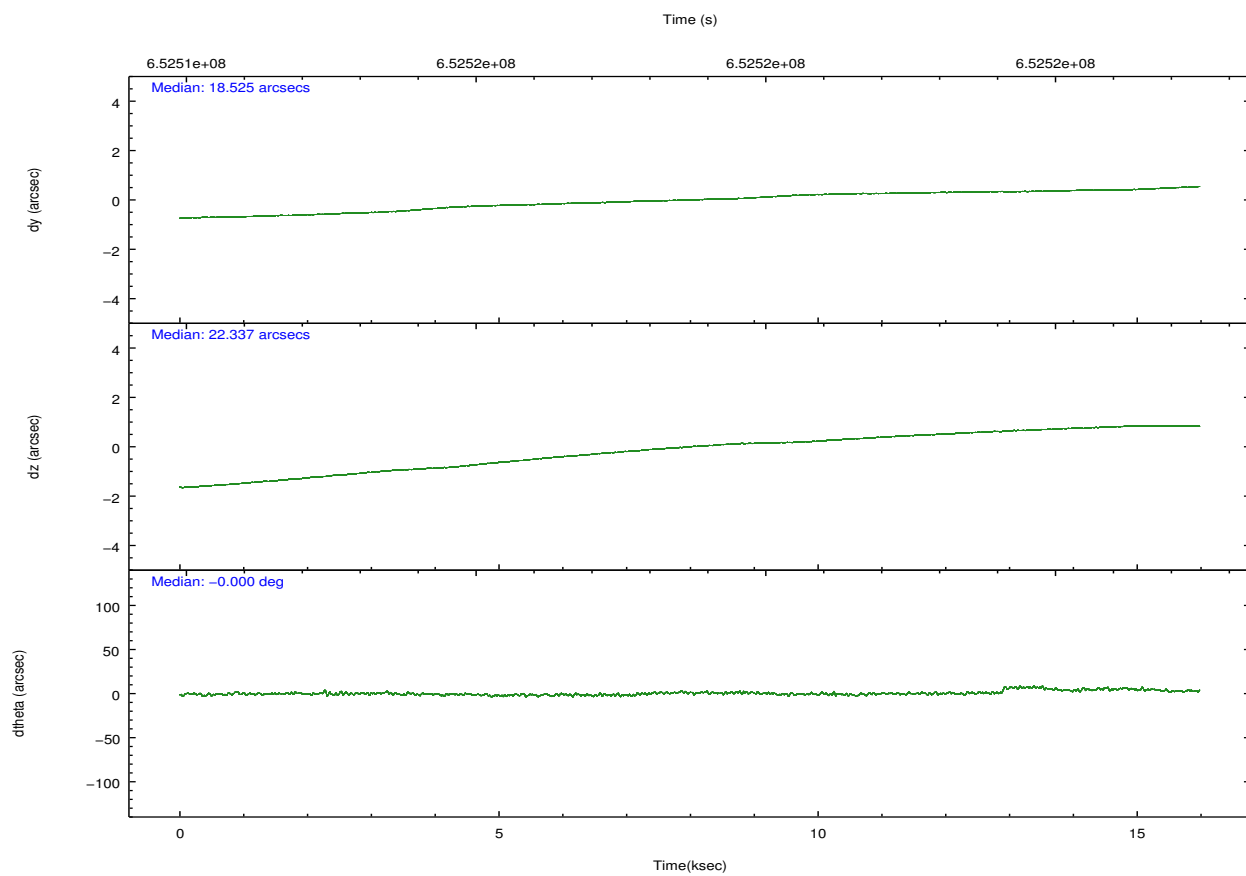
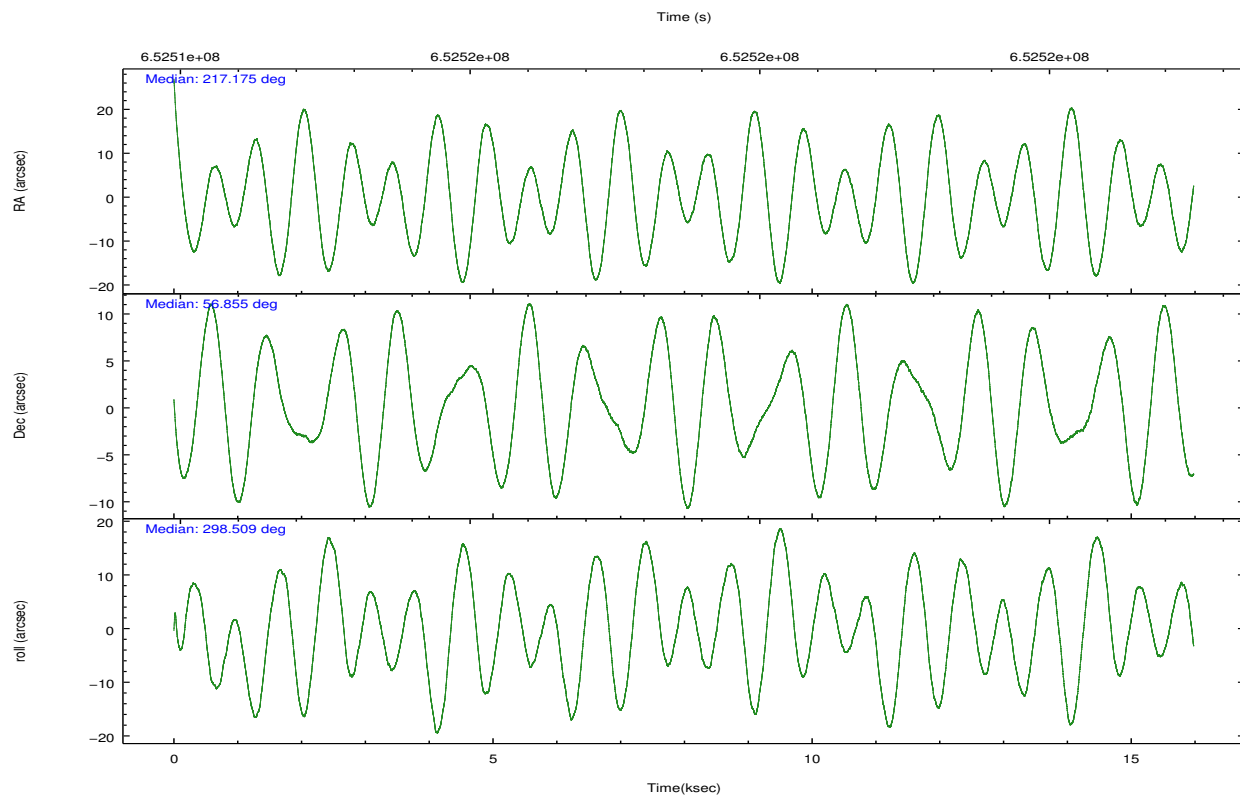
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	109446	112502	122937	119727	126491	151979	grade 0 events	4943	5642	4858	6322	4139	5679
rejected events	95697	96809	109992	105143	113188	86150		4%	5%	3%	5%	3%	3%
rejected %	87%	86%	89%	87%	89%	56%	grade 1 events	55	59	80	68	51	199
								0%	0%	0%	0%	0%	0%
							grade 2 events	3328	4101	3034	2952	3412	13677
								3%	3%	2%	2%	2%	8%
							grade 3 events	1308	1374	1270	1277	1222	5234
								1%	1%	1%	1%	0%	3%
							grade 4 events	1261	1247	1299	1344	1169	5077
								1%	1%	1%	1%	0%	3%
							grade 5 events	4997	4919	4442	5424	5567	15127
								4%	4%	3%	4%	4%	9%
							grade 6 events	2913	3336	2494	2693	3363	36191
								2%	2%	2%	2%	2%	23%
							grade 7 events	90641	91824	105460	99647	107568	70795
								82%	81%	85%	83%	85%	46%

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	217.131707	217.1748187573857	CCD I2 on	Y	Y
[deg] Pointing Dec	56.869537	56.85520462955159	CCD I3 on	Y	Y
[deg] Pointing Roll	298.342980	298.5155829596189	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	652510875.184000	652509862.02648	CCD S5 on	N	N
Observation start date	2018-09-05T05:00:06	2018-09-05T04:44:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652526675.184000	652527696.00254	On-chip summing requested	N	N
Observation end date	2018-09-05T09:23:26	2018-09-05T09:41:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



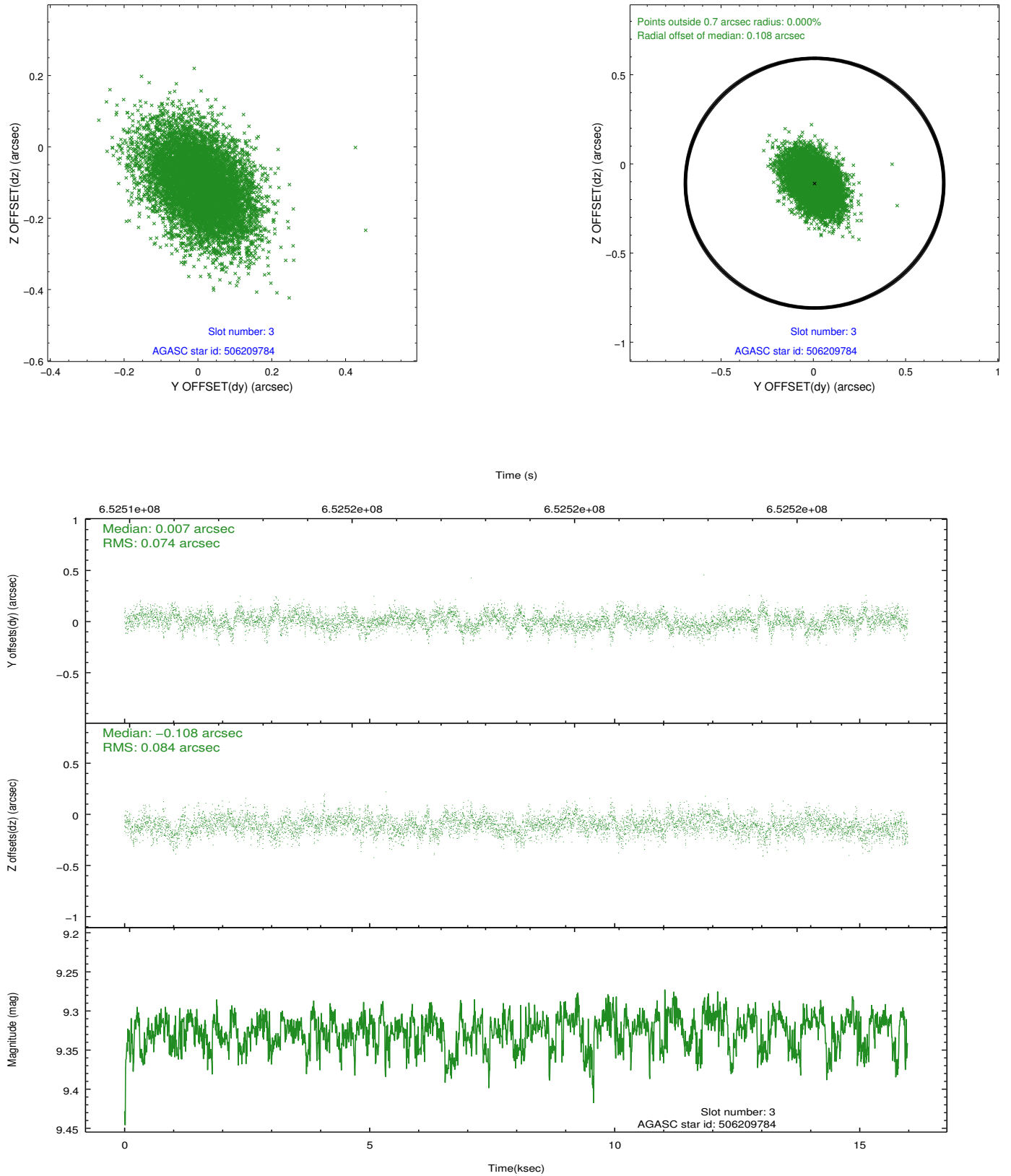


Slot Statistics

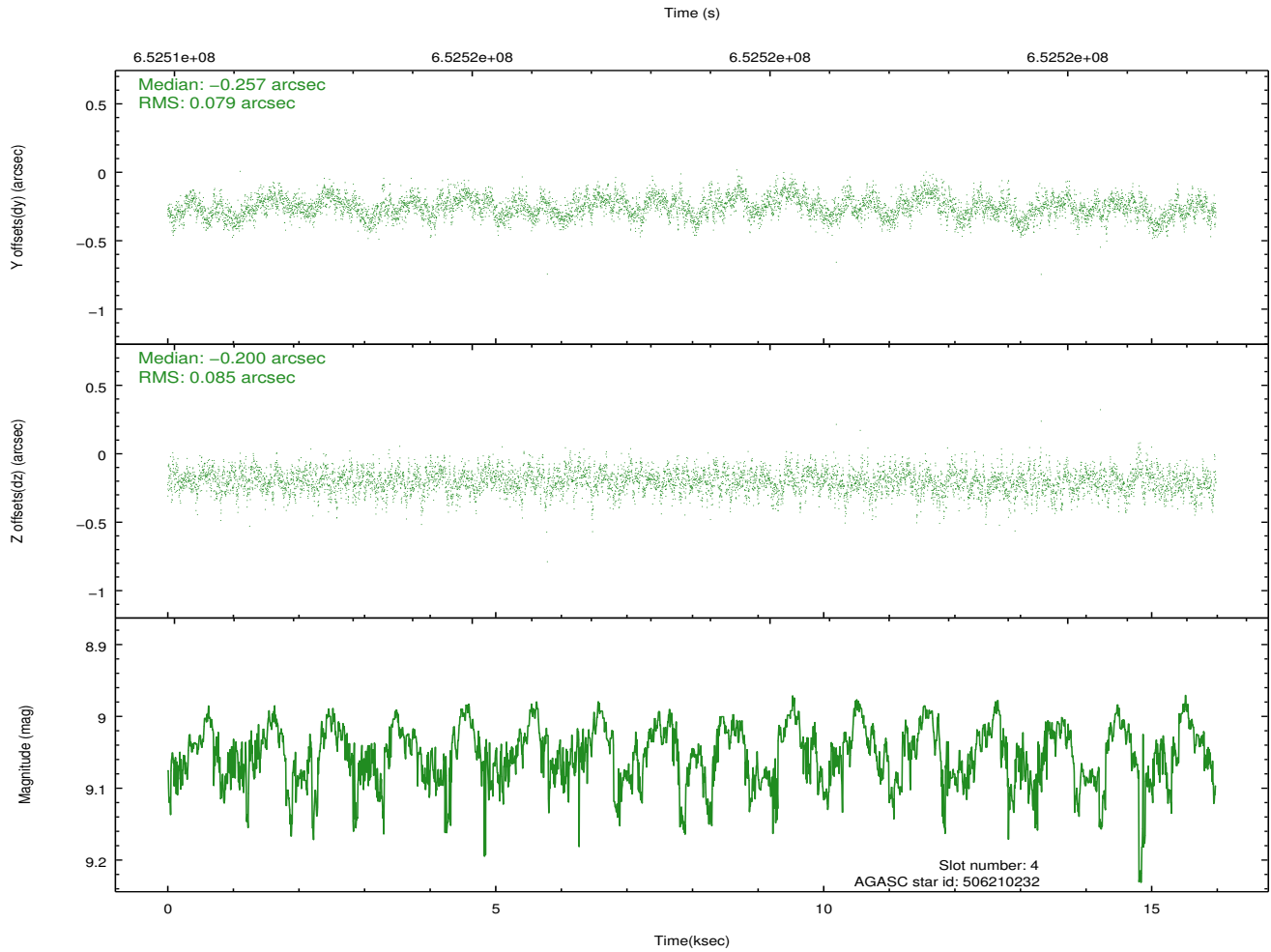
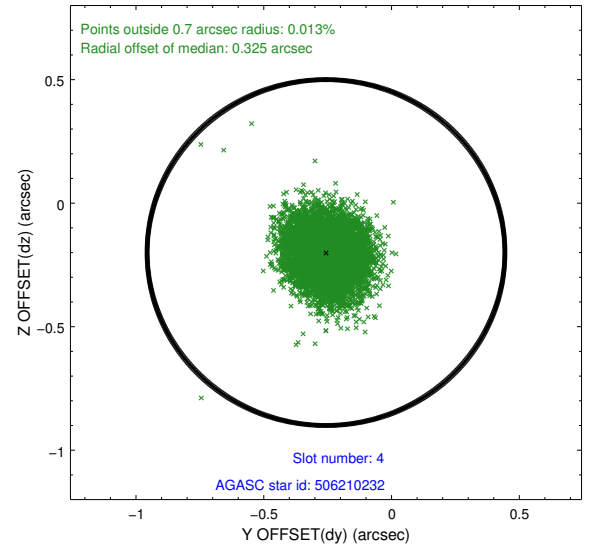
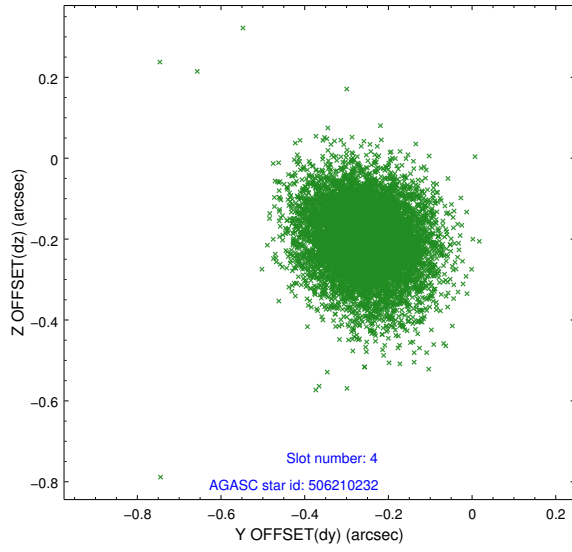
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3897	1.000	-0.062	-0.061	0.049	0.076	0.000000	0.000000	920.78	-846
1	FID		ACIS-I-2	7.13	3894	1.000	-0.334	-0.161	0.017	0.027	0.000000	0.000000	-773.43	-852
2	FID		ACIS-I-4	7.17	3897	1.000	0.298	0.288	0.039	0.056	0.000000	0.000000	2140.97	1053
3	GUIDE	used	506209784	9.32	7783	1.000	0.007	-0.108	0.117	0.200	217.198701	57.472545	-1848.66	1144
4	GUIDE	used	506210232	9.05	7787	1.000	-0.257	-0.200	0.121	0.199	217.512633	56.636433	1094.51	265
5	GUIDE	used	506210552	9.10	7787	1.000	0.207	-0.033	0.143	0.251	217.001600	57.114146	-895.43	194
6	GUIDE	used	506211008	8.61	7787	1.000	0.111	0.312	0.113	0.182	216.171140	56.840315	-815.92	-1707
7	GUIDE	used	506211112	8.86	7789	1.000	-0.067	0.035	0.147	0.235	217.302283	57.167064	-785.92	801

2.4 Star Slots

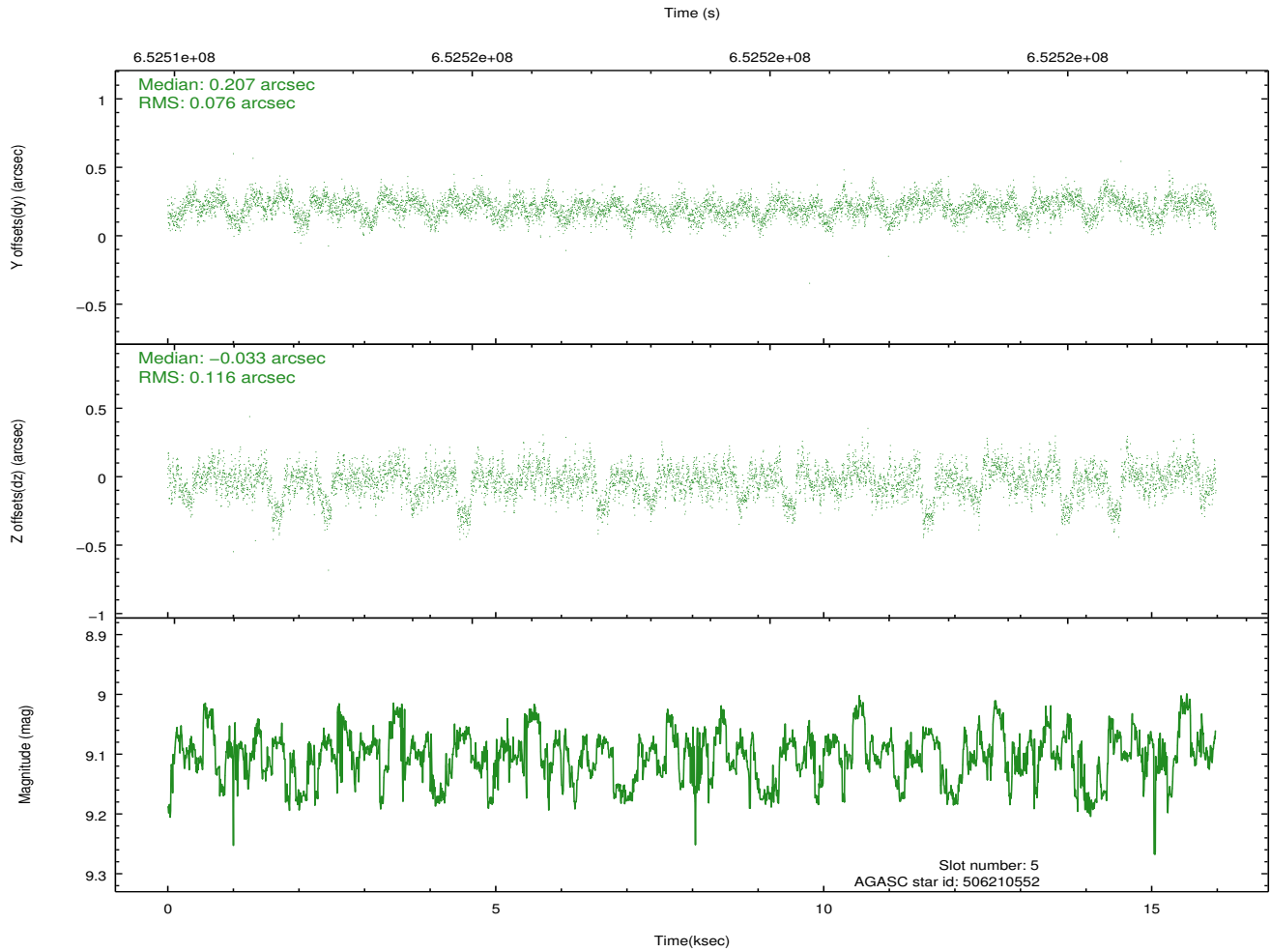
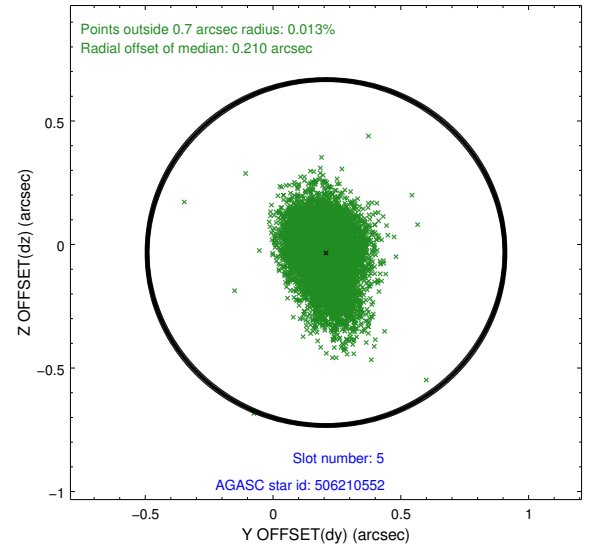
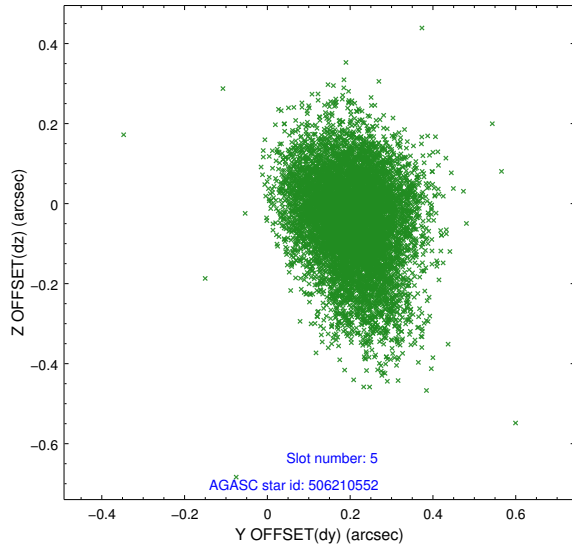
2.4.1 Slot 3



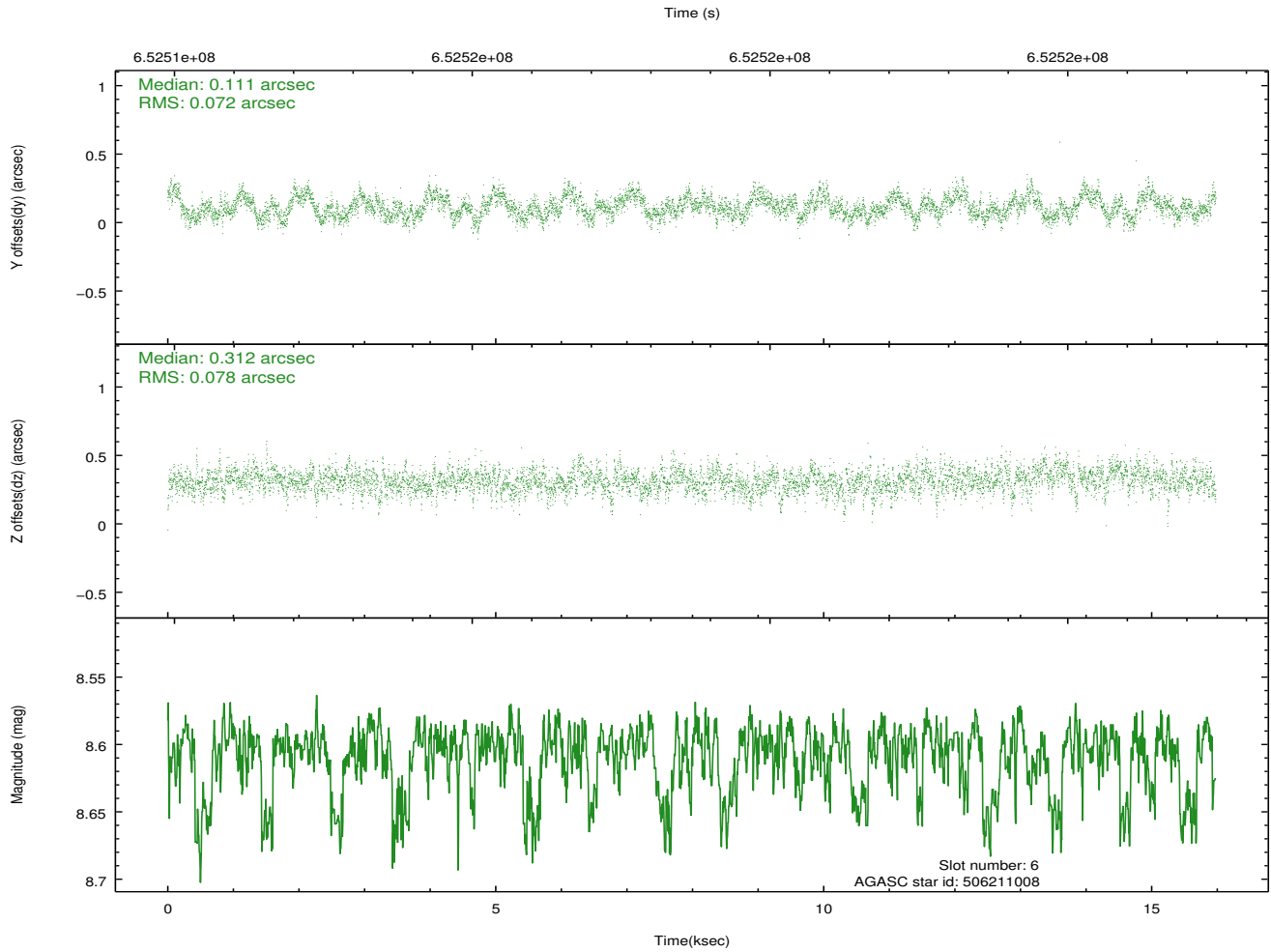
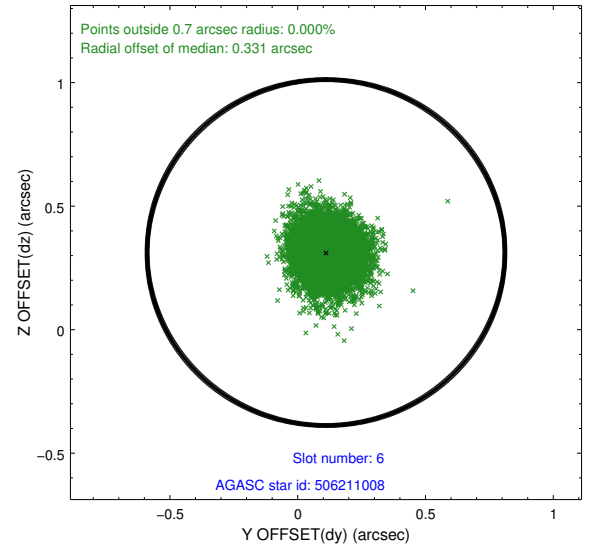
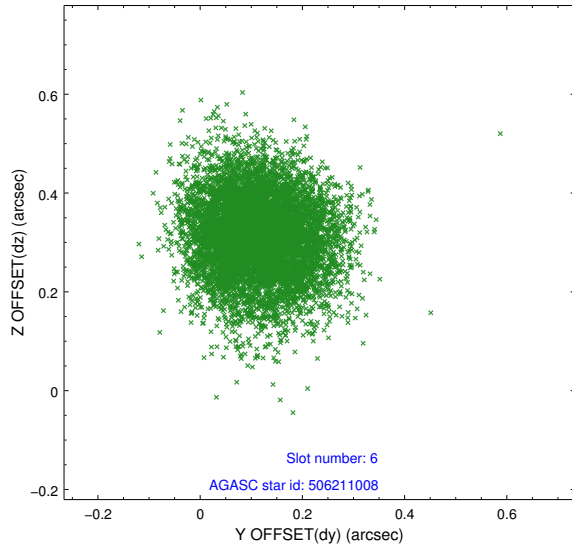
2.4.2 Slot 4



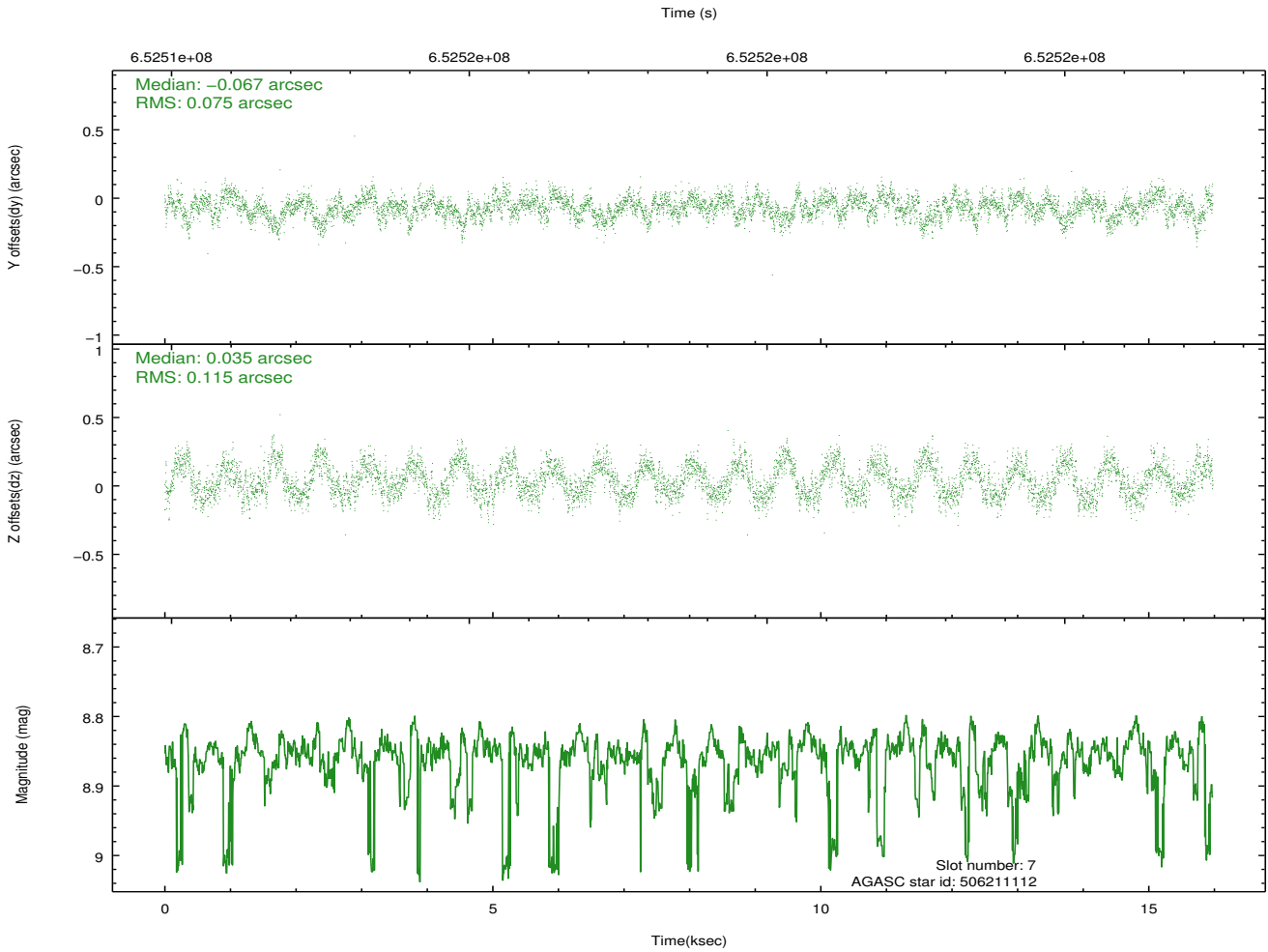
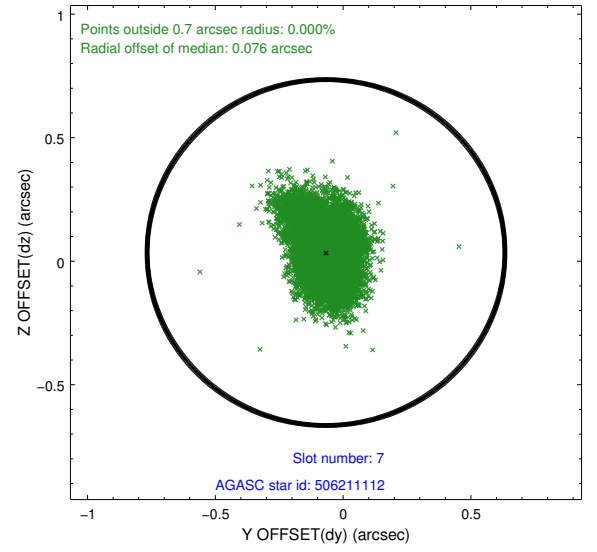
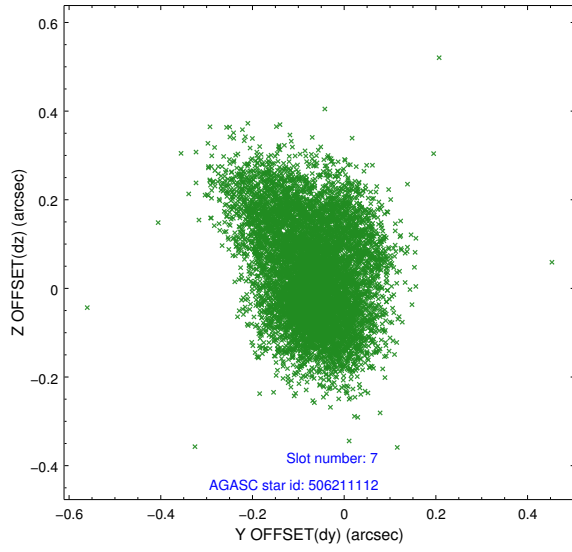
2.4.3 Slot 5



2.4.4 Slot 6

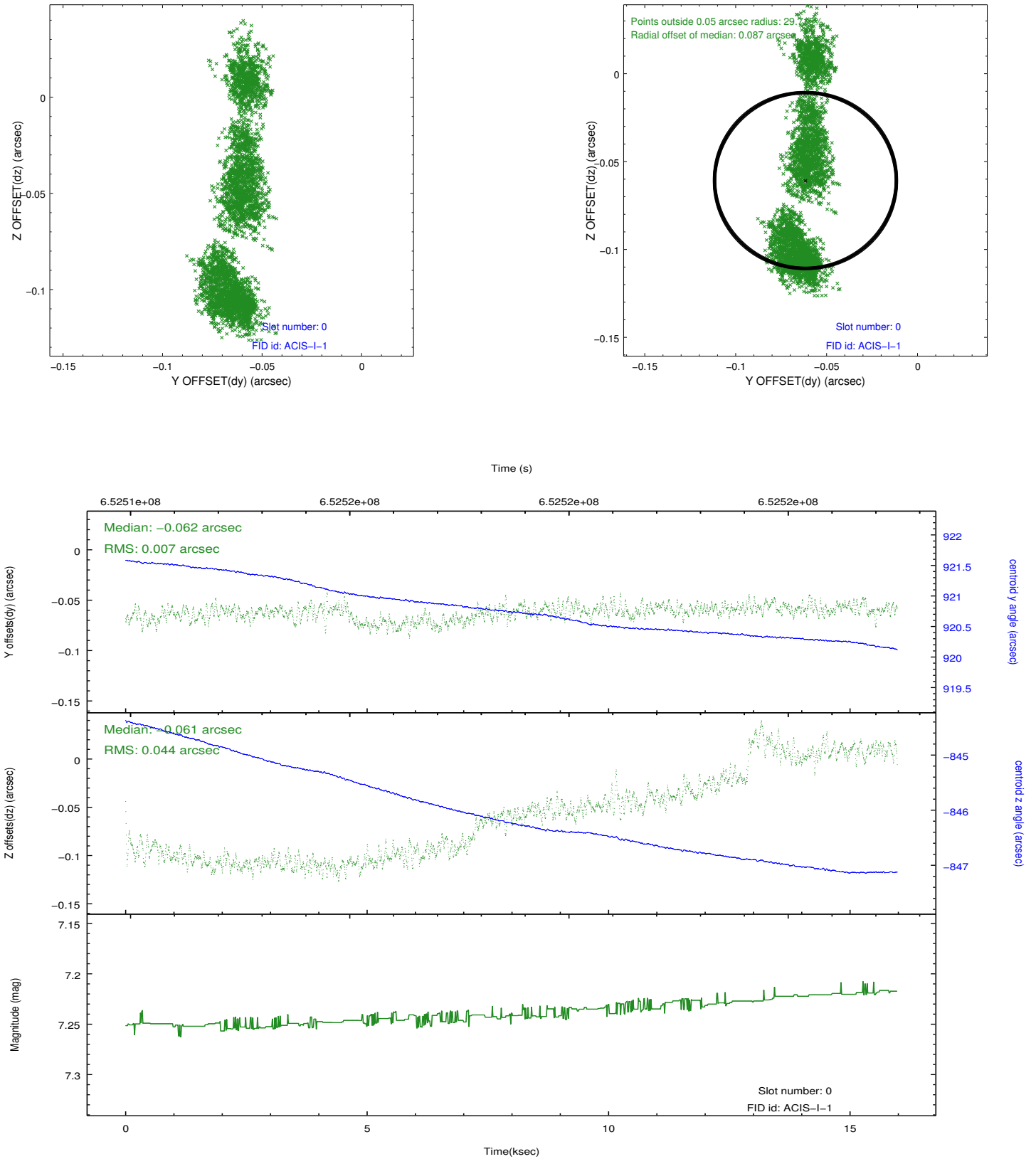


2.4.5 Slot 7

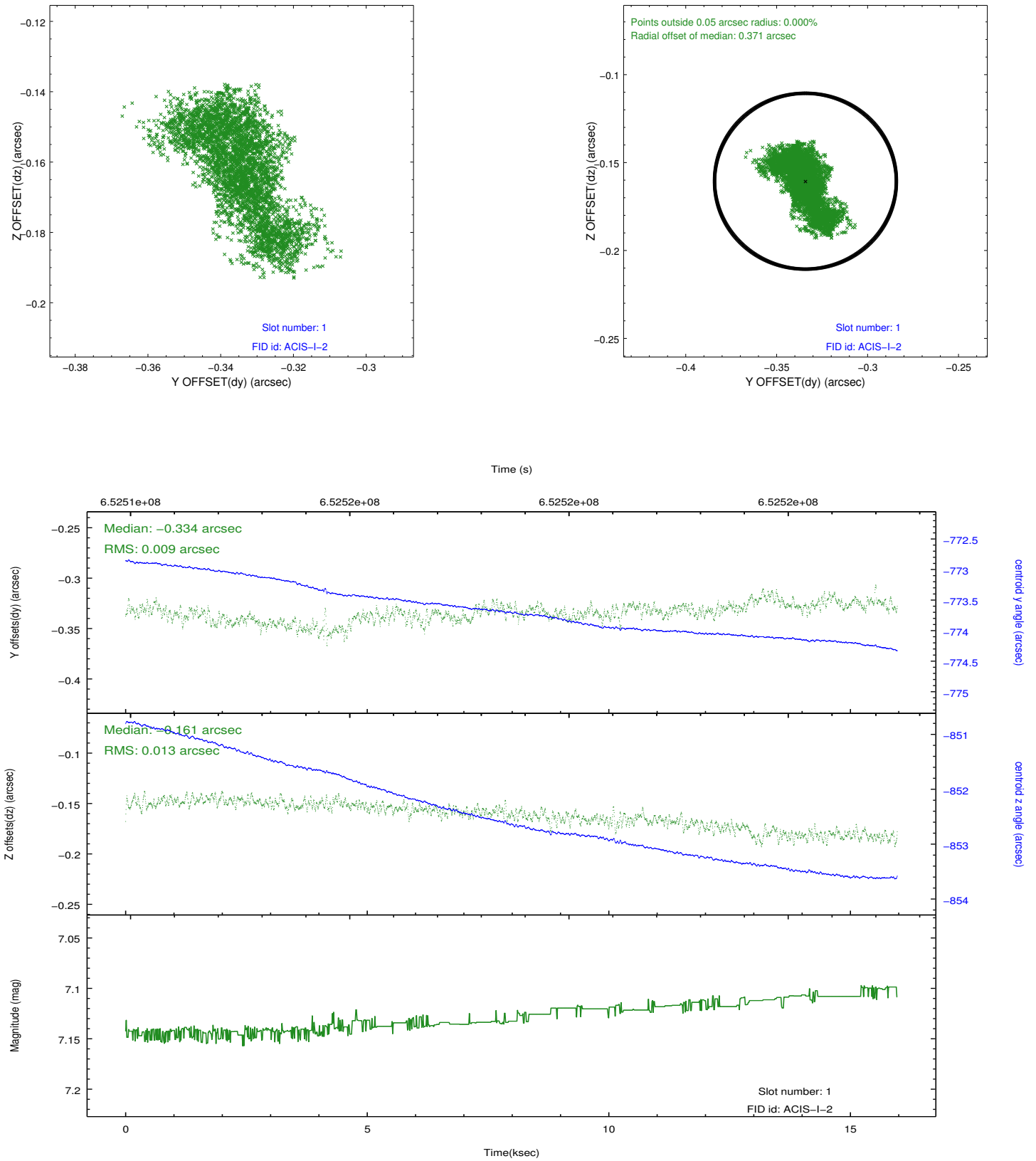


2.5 FID Slots

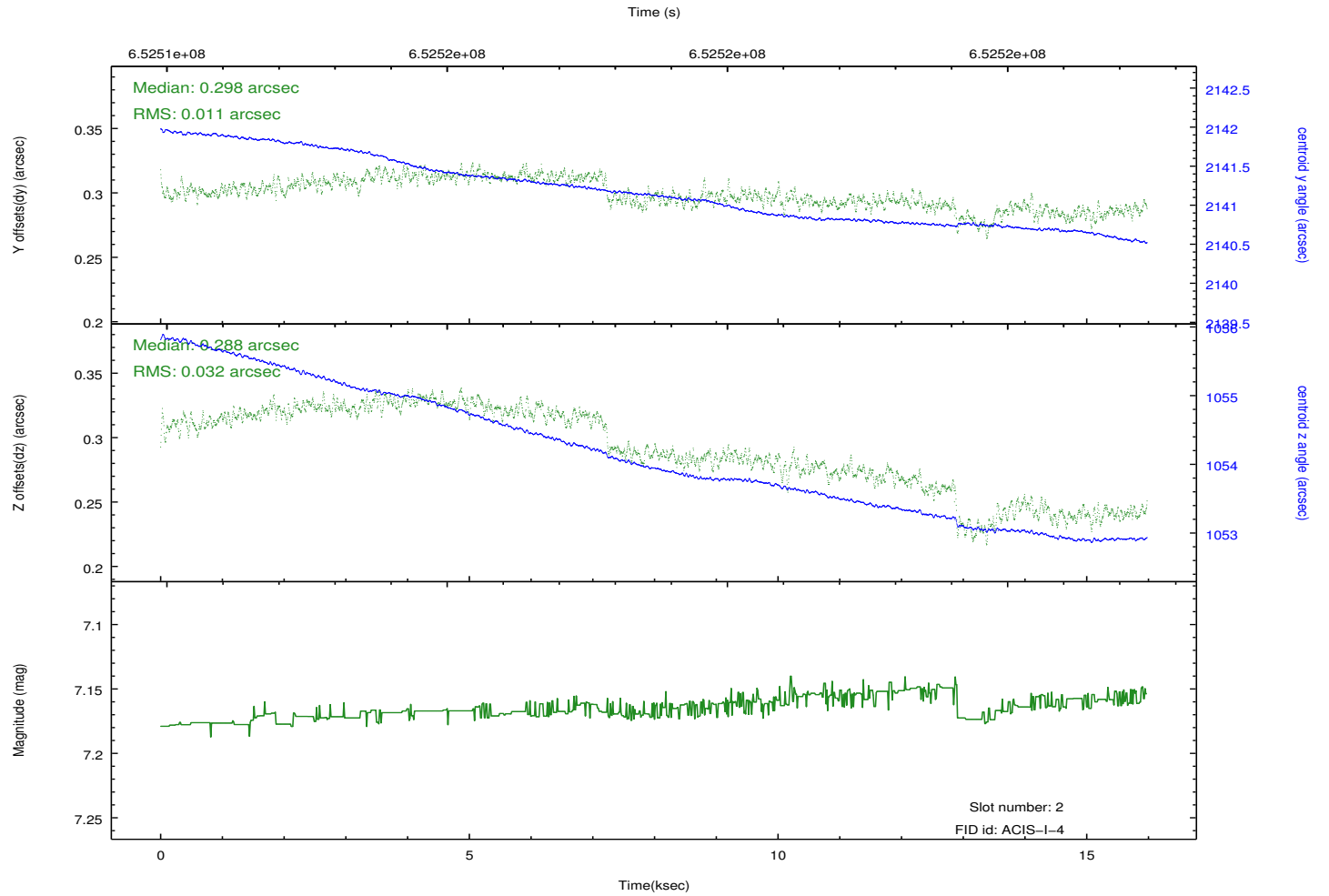
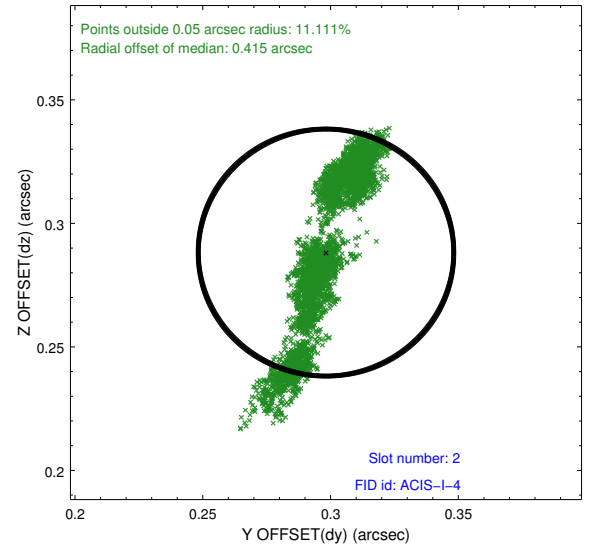
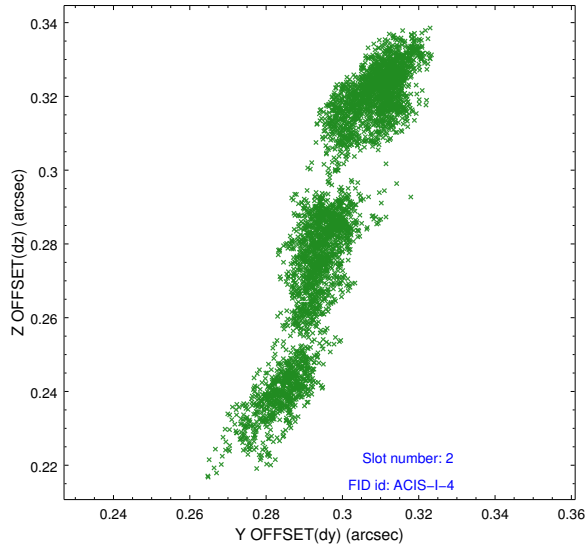
2.5.1 Slot 0



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)	2018.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.747159303784

A.2 Comments