

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18918 - L2 Version 1
Chandra X-Ray Center

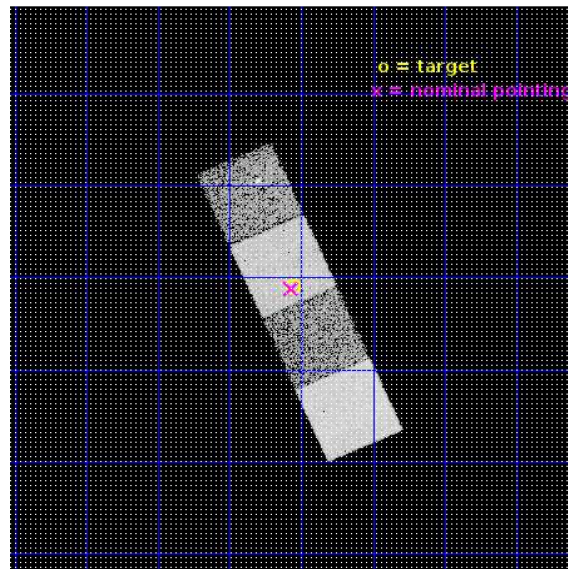
L2 Processing Date : Apr 6 2017

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1 Front

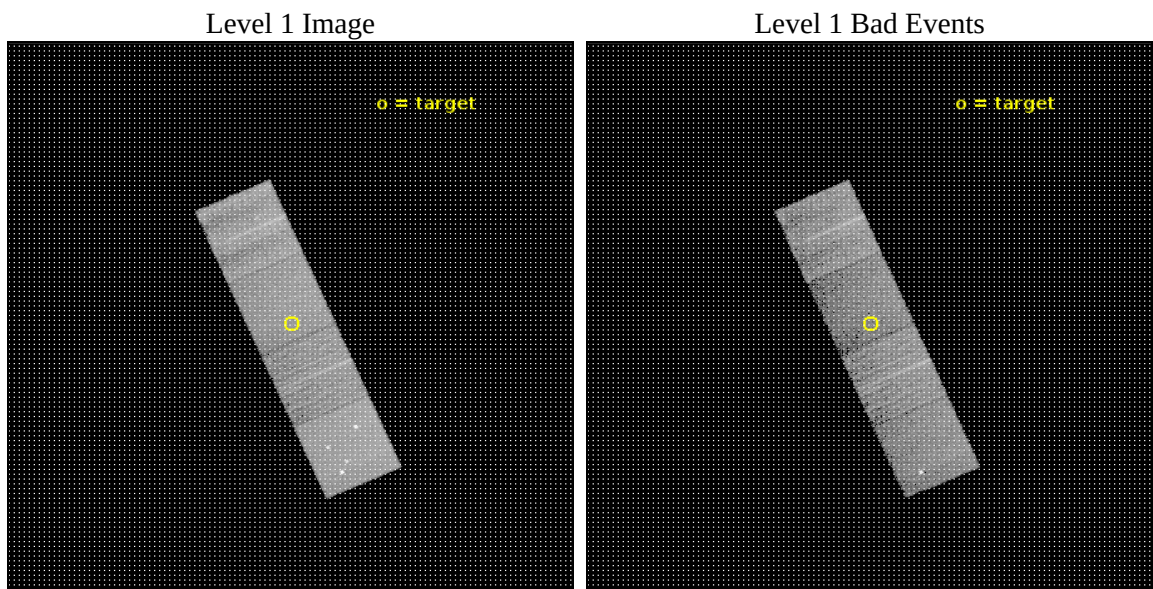
seq_num	201111	Sequence number
obs_id	18918	Observation id
title	Direct Detection of Accreting White Dwarf Pollutants	Proposal titl
observer	Saul Rappaport	Principal investigator
object	WD 1145+017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.14	Observer's specified target RA [deg]
dec_targ	1.483139	Observer's specified target Dec [deg]
ra_nom	177.14233582705	Nominal RA [deg]
dec_nom	1.4798912138595	Nominal Dec [deg]
roll_nom	246.20925163484	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10064.471558928	Sum of GTIs [s]
livetime	9932.9718286549	Livetime [s]
ontime5	10064.430518985	Sum of GTIs [s]
ontime6	10061.24844873	Sum of GTIs [s]
ontime7	10064.471558928	Sum of GTIs [s]
ontime8	10064.348438978	Sum of GTIs [s]
l2events	91354	Number of level 2 events



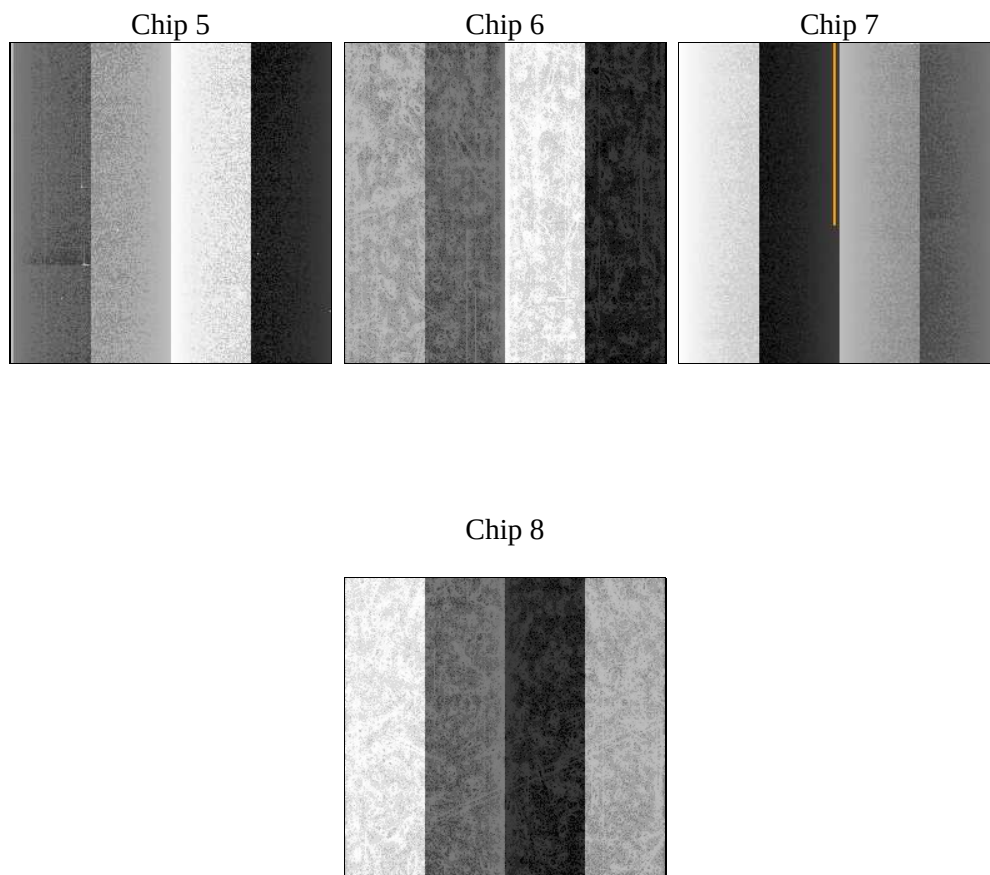
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10064.471558928	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	10064.430518985	Sum of GTIs [s]
date	2017-04-07T00:04:13	Date and time of file creation	ontime6	10061.24844873	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10064.471558928	Sum of GTIs [s]
			ontime8	10064.348438978	Sum of GTIs [s]
			l1events	318218	Number of level 1 events

2.1.4 Events

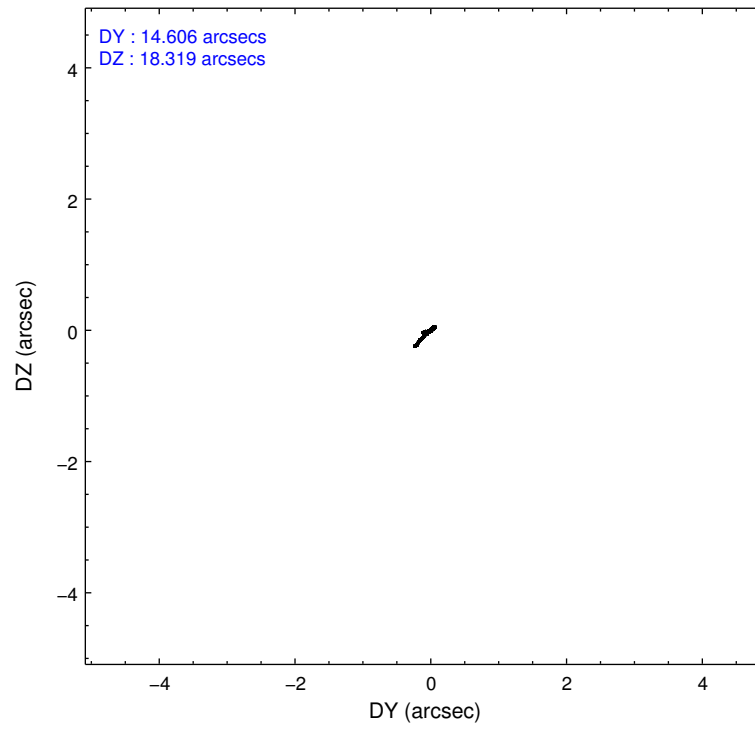
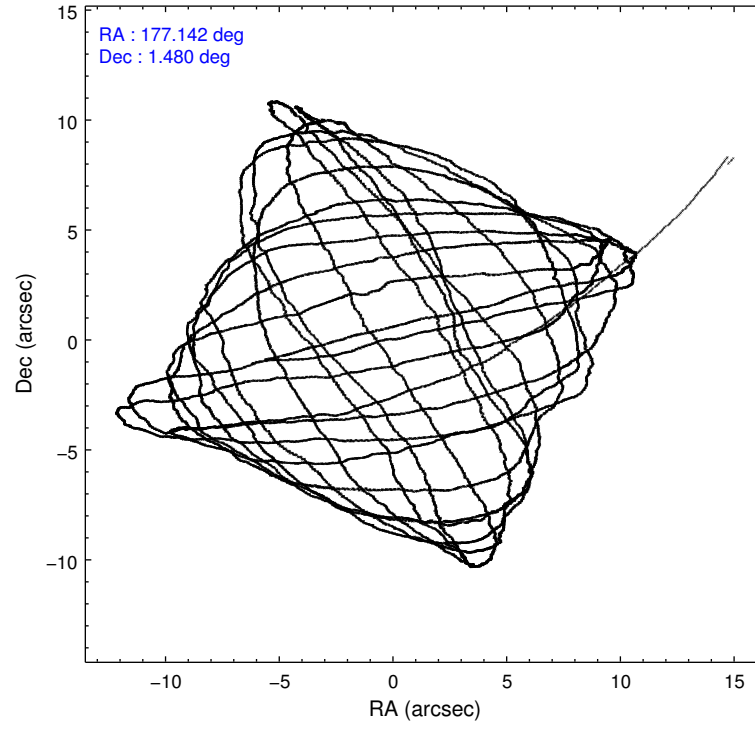
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	100318	63427	70749	83724
rejected events	46930	56223	37444	59477
rejected %	46%	88%	52%	71%

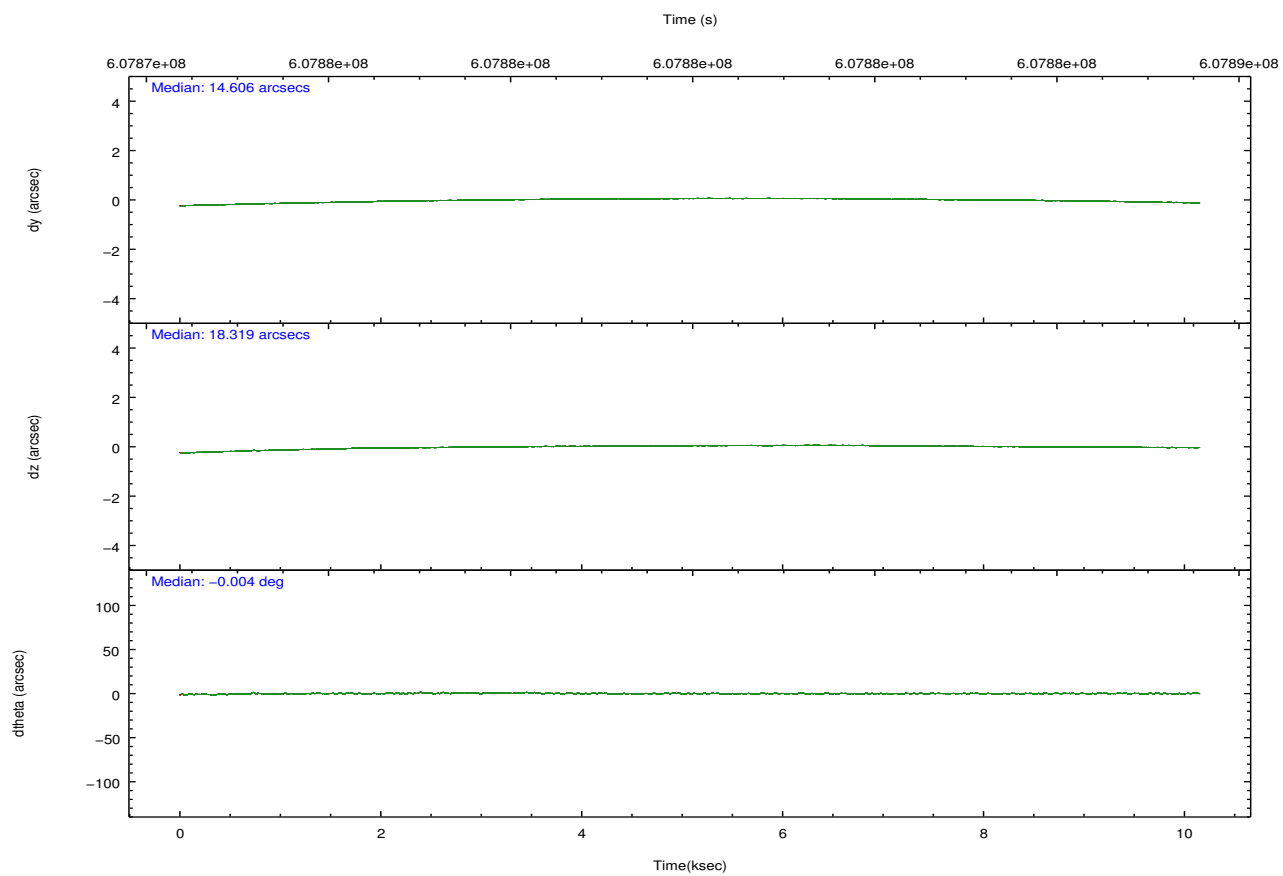
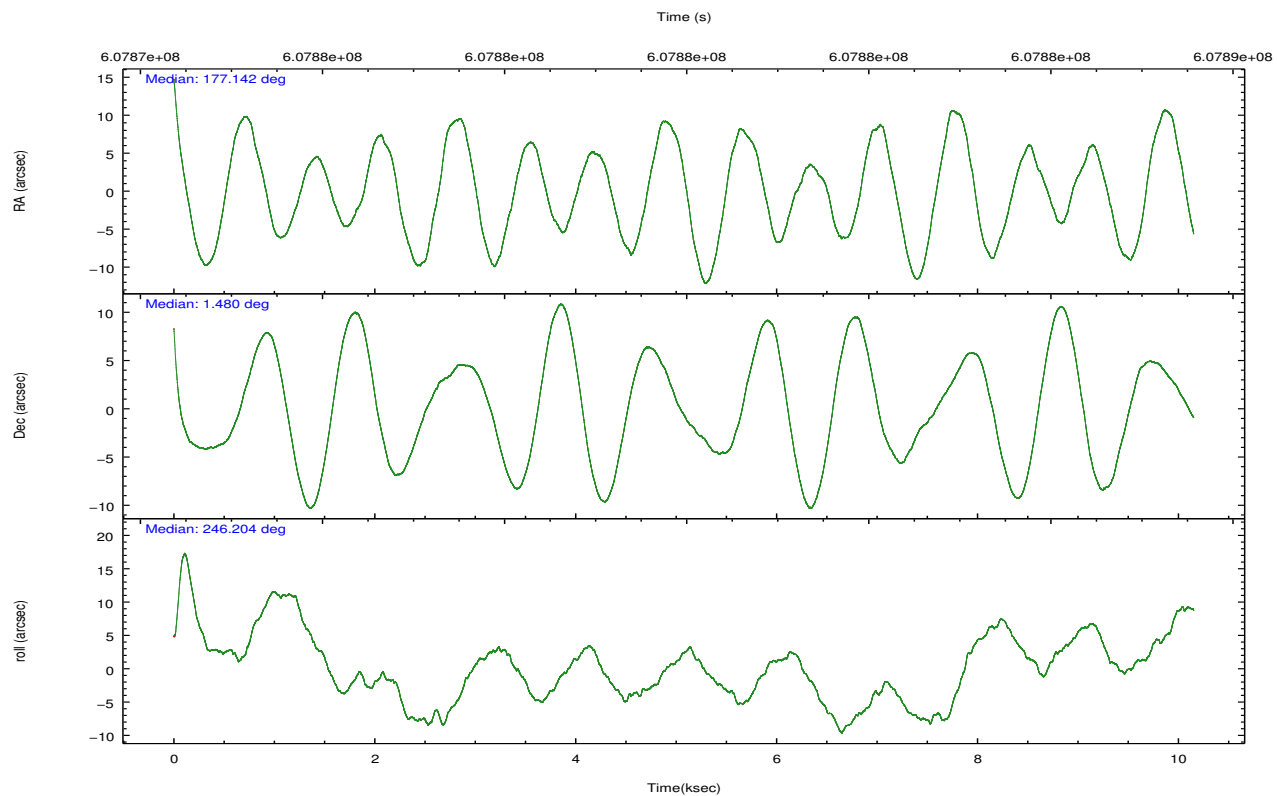
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	8831	2568	3109	6987
	8%	4%	4%	8%
grade 1 events	253	29	99	69
	0%	0%	0%	0%
grade 2 events	16116	1761	7374	5906
	16%	2%	10%	7%
grade 3 events	1571	649	2776	2618
	1%	1%	3%	3%
grade 4 events	1615	694	2804	2476
	1%	1%	3%	2%
grade 5 events	7418	2585	7400	4167
	7%	4%	10%	4%
grade 6 events	25299	1542	17260	6282
	25%	2%	24%	7%
grade 7 events	39215	53599	29927	55219
	39%	84%	42%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	177.138981	177.1423358270451	CCD I2 on	N	N
[deg] Pointing Dec	1.507129	1.479891213859459	CCD I3 on	N	N
[deg] Pointing Roll	246.052728	246.2092516348402	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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	O2	Y
[s] Observation start time (MET)	607875058.184000	607873526.35452	CCD S5 on	N	N
Observation start date	2017-04-06T14:09:49	2017-04-06T13:45:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	607885058.184000	607885721.29272	On-chip summing requested	N	N
Observation end date	2017-04-06T16:56:29	2017-04-06T17:08:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



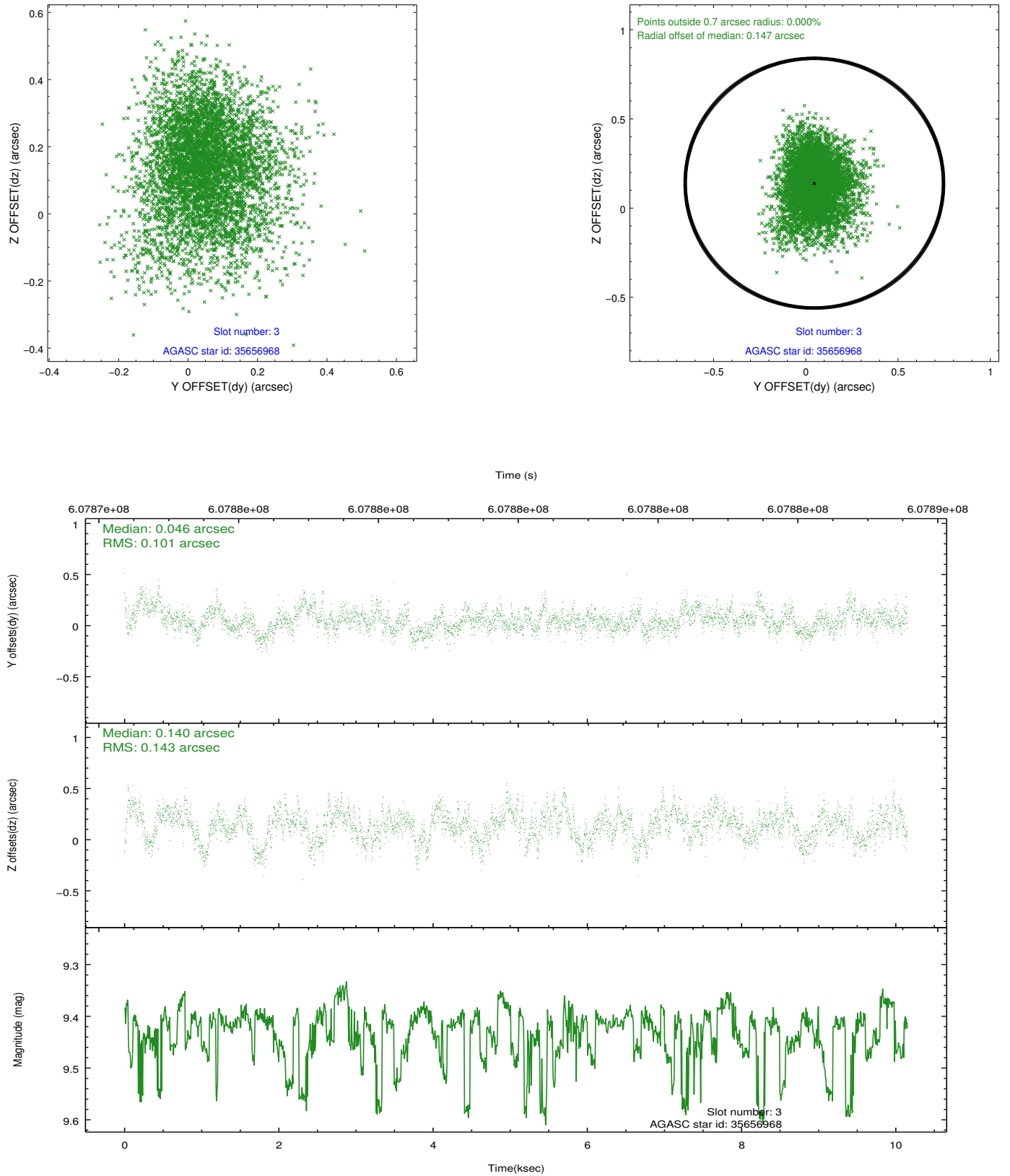


Slot Statistics

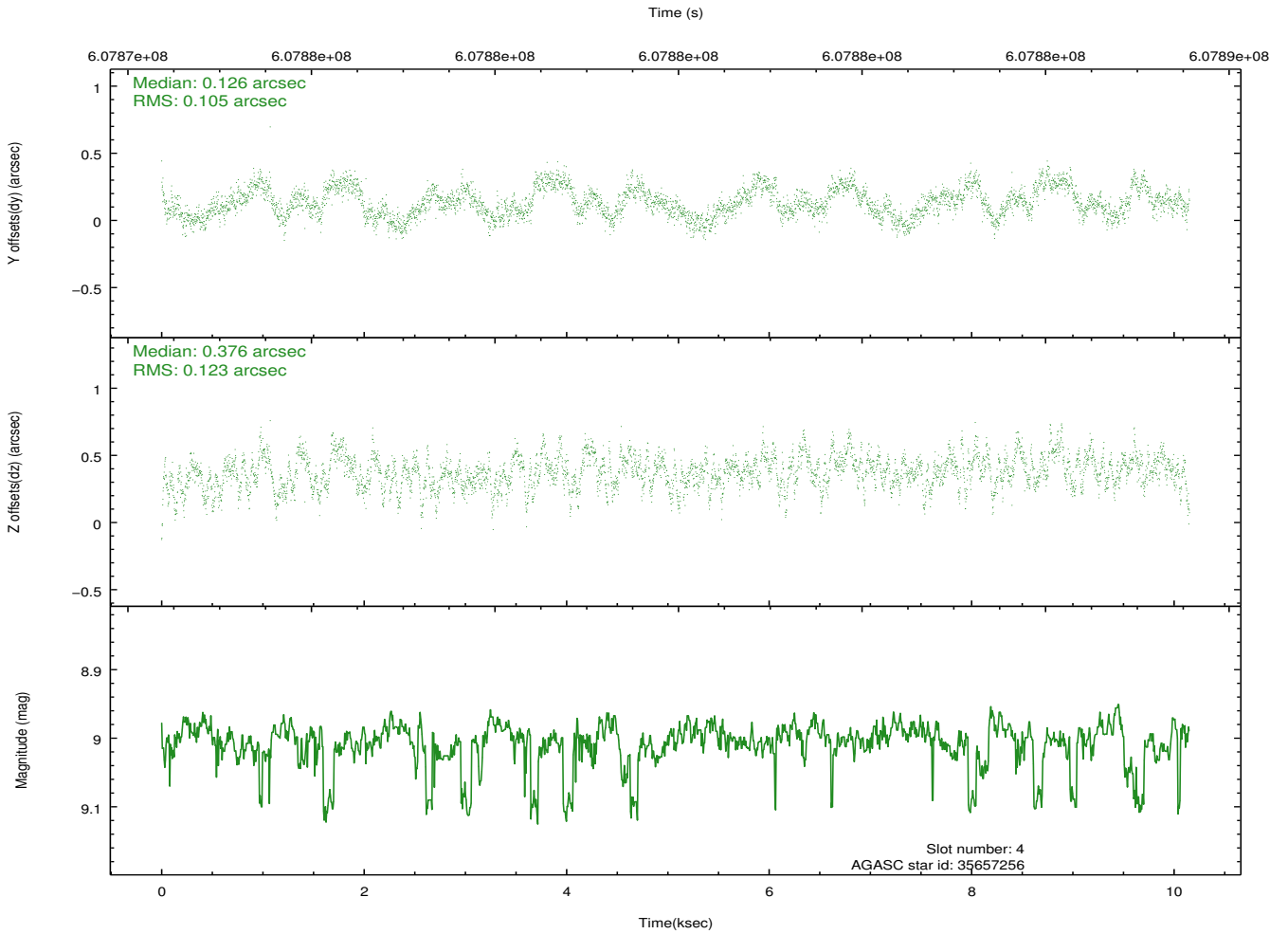
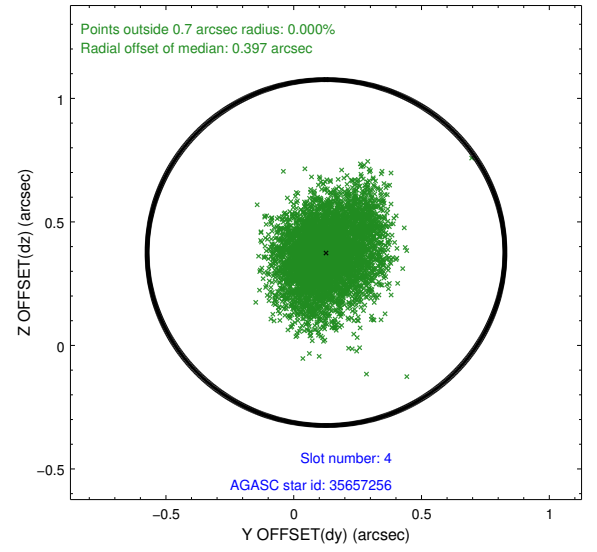
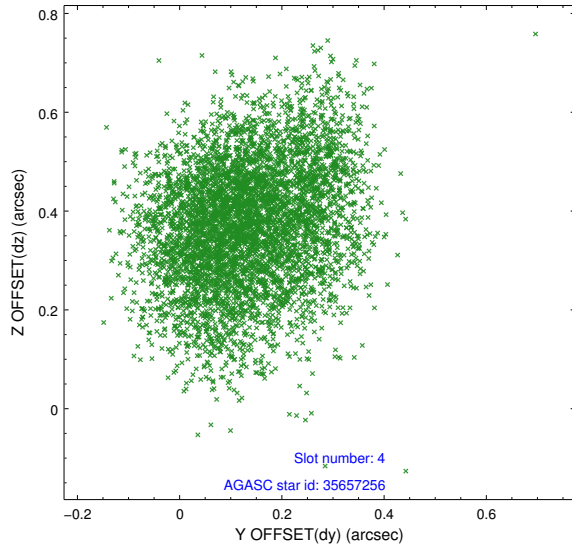
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	2477	-0.192	-0.135	0.012	0.020	0.000000	0.000000	-767.74	-1739.85
1	FID		ACIS-S-4	7.13	2476	0.495	0.128	0.008	0.015	0.000000	0.000000	2145.99	168.35
2	FID		ACIS-S-5	7.12	2477	-0.336	0.014	0.010	0.018	0.000000	0.000000	-1820.05	162.51
3	GUIDE	used	35656968	9.42	4942	0.046	0.140	0.183	0.314	176.560047	1.542359	730.16	-1956.57
4	GUIDE	used	35657256	9.00	4946	0.126	0.376	0.174	0.275	176.857006	2.013332	-1253.18	-1667.94
5	GUIDE	used	35658416	7.85	4952	0.079	-0.240	0.094	0.159	176.725004	1.604214	285.43	-1504.01
6	GUIDE	used	35786024	9.46	4946	-0.074	0.112	0.155	0.259	177.790022	1.785804	-1867.47	1732.35
7	GUIDE	used	35788008	9.37	4946	-0.191	-0.376	0.146	0.246	177.612047	1.006805	954.38	2287.28

2.4 Star Slots

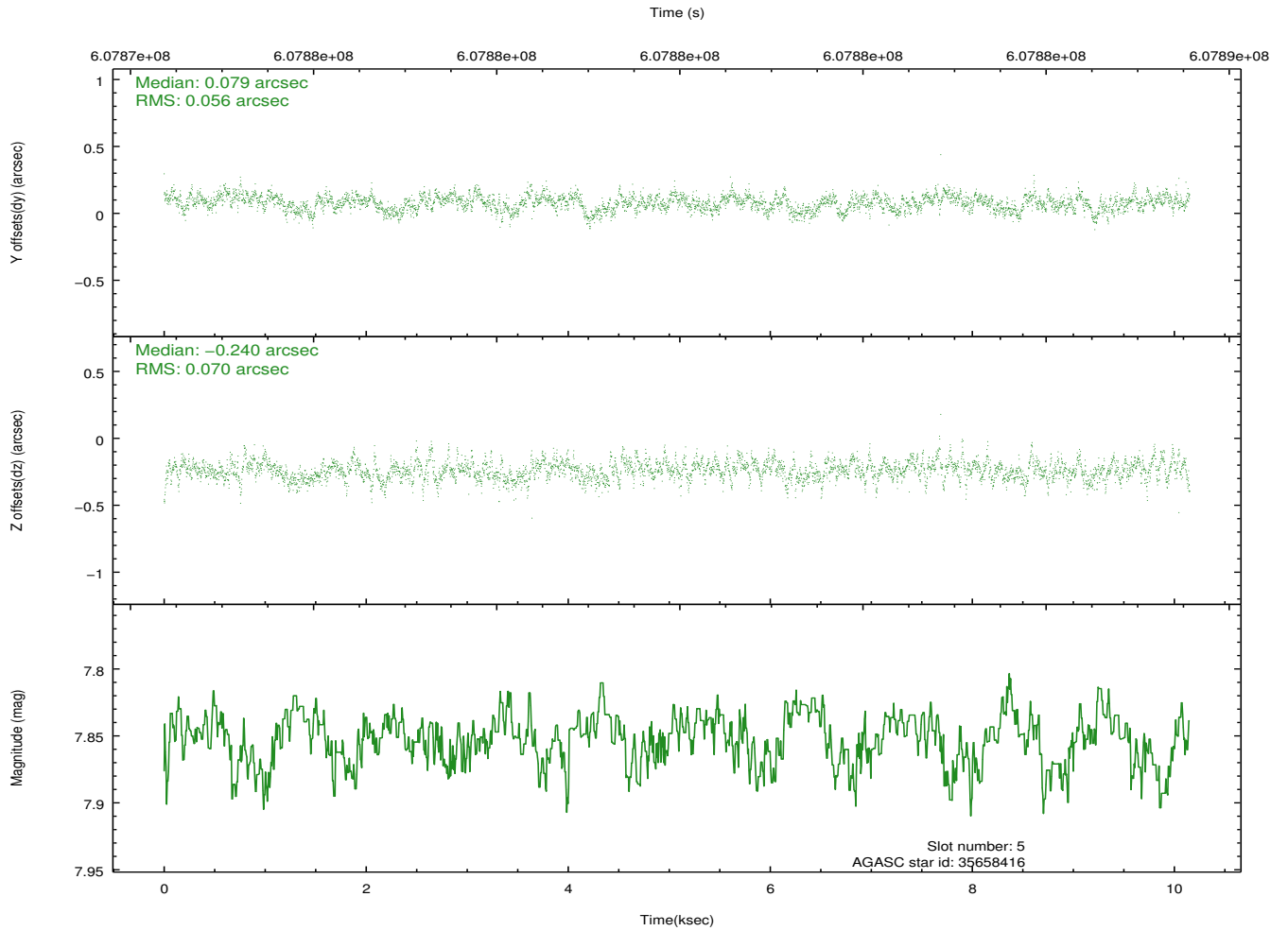
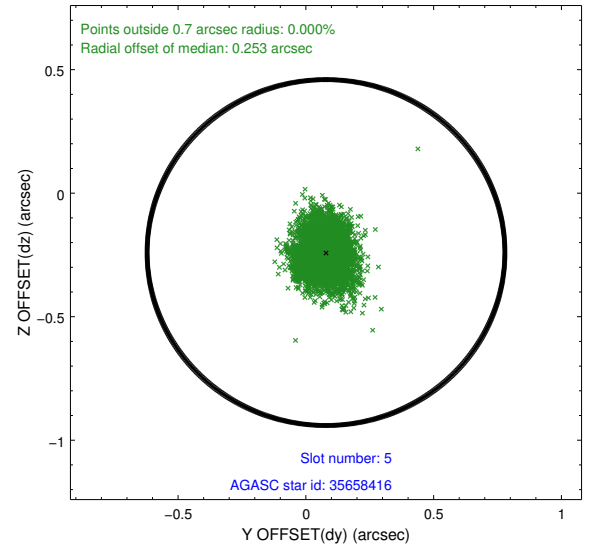
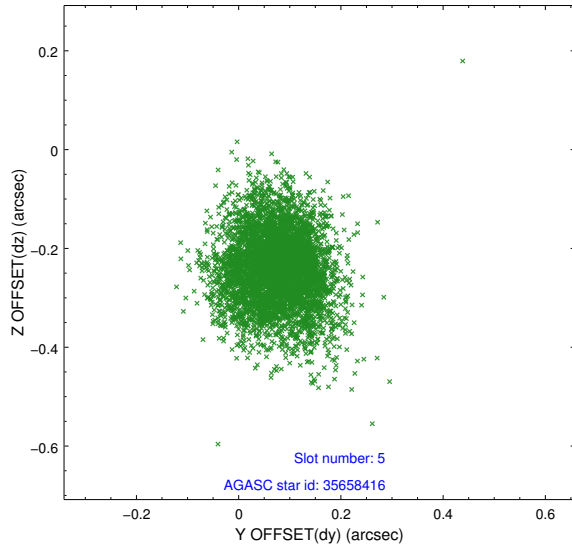
2.4.1 Slot 3



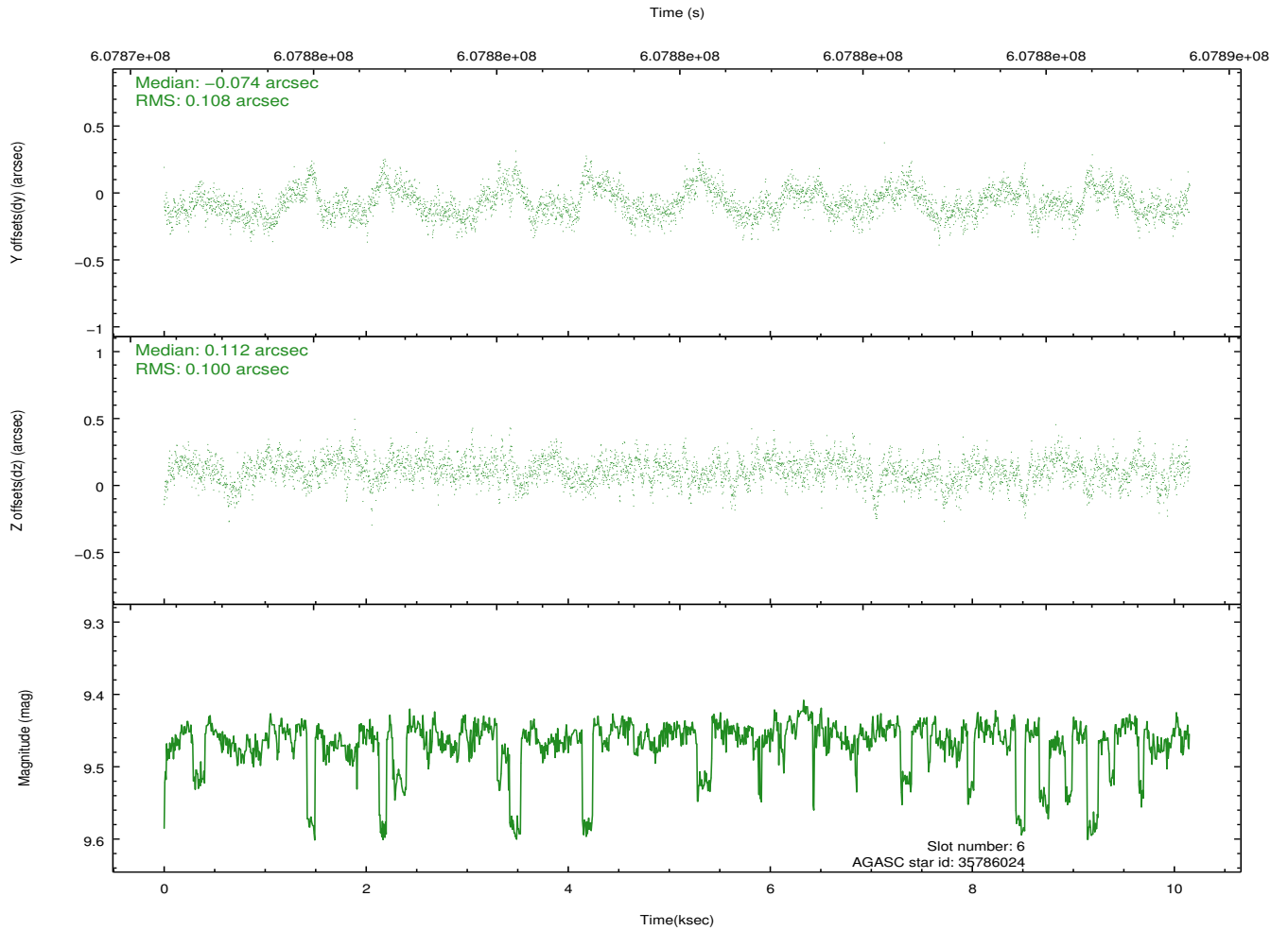
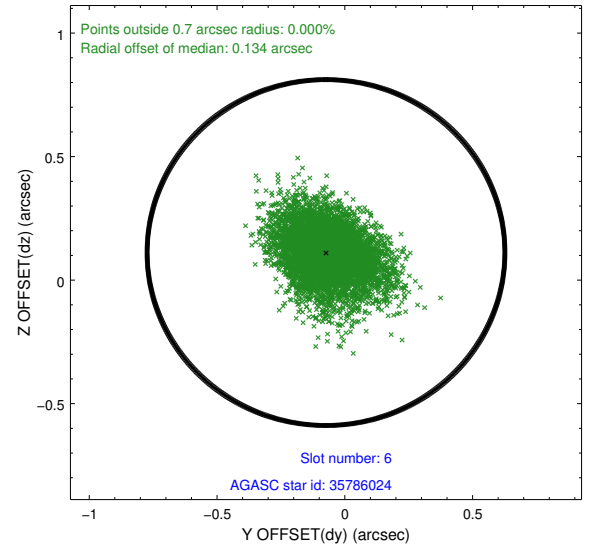
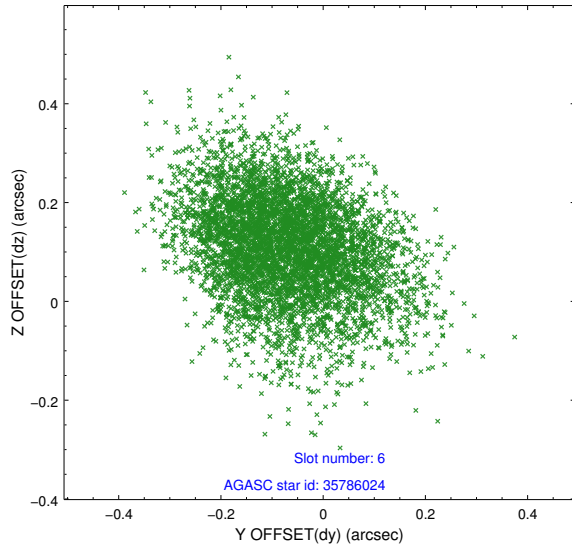
2.4.2 Slot 4



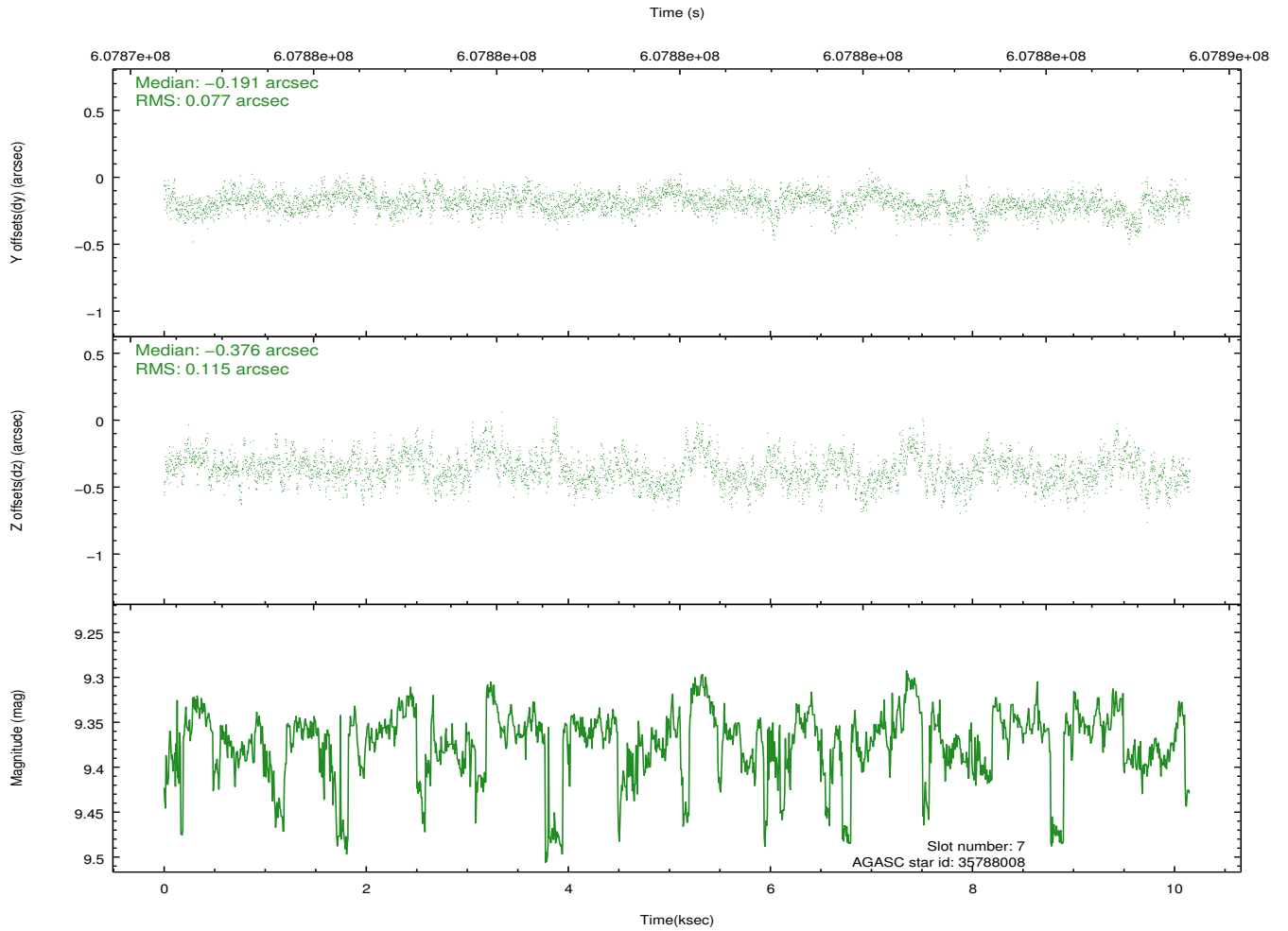
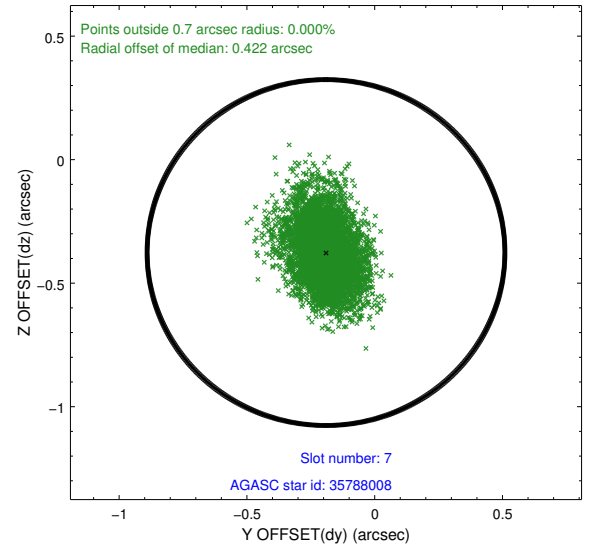
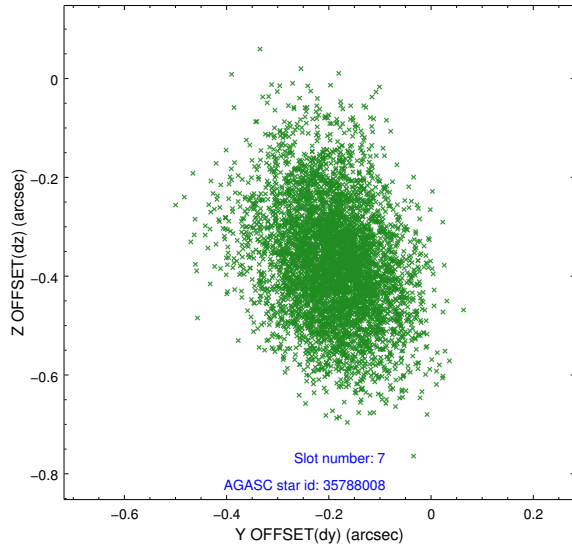
2.4.3 Slot 5



2.4.4 Slot 6

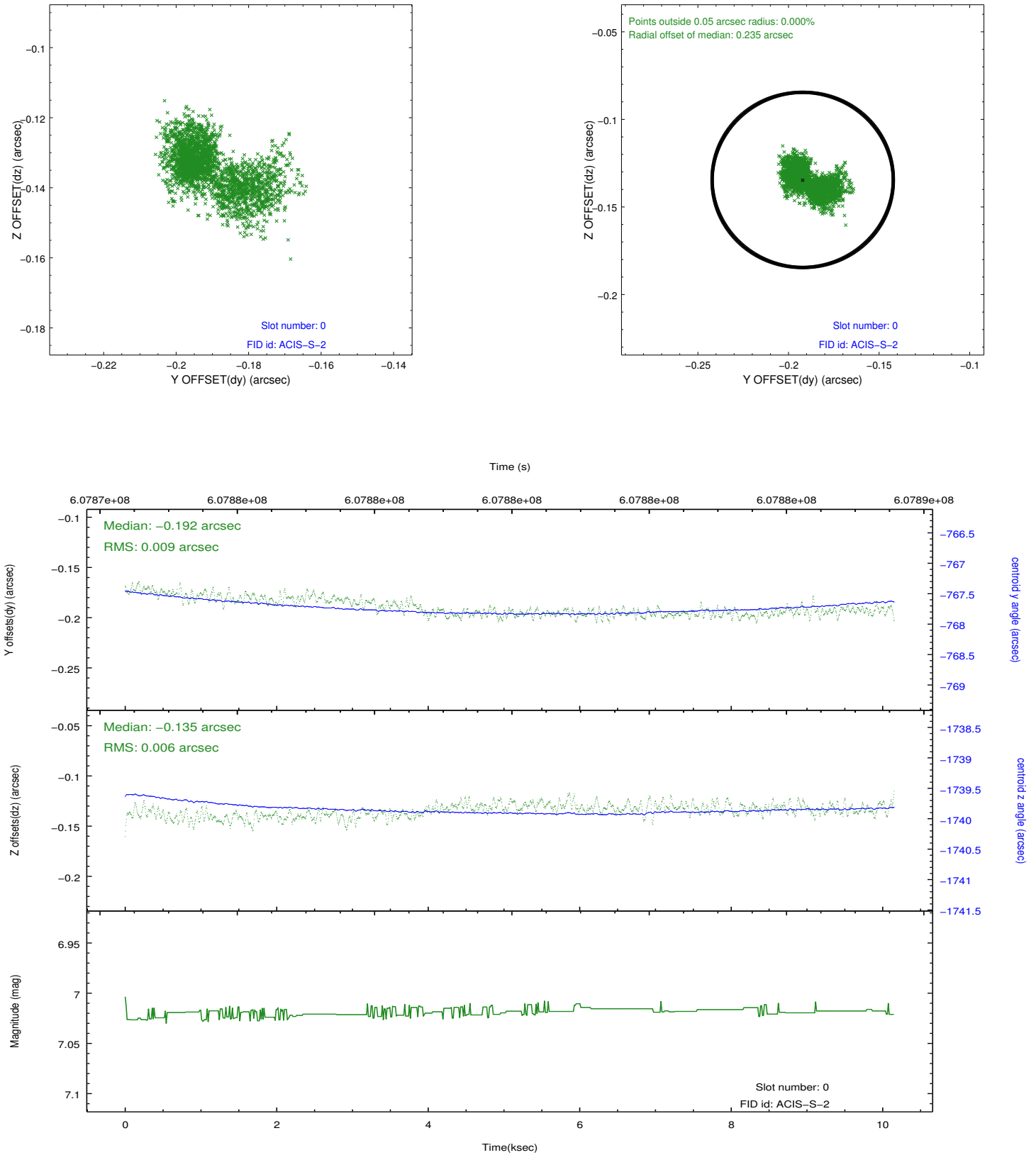


2.4.5 Slot 7

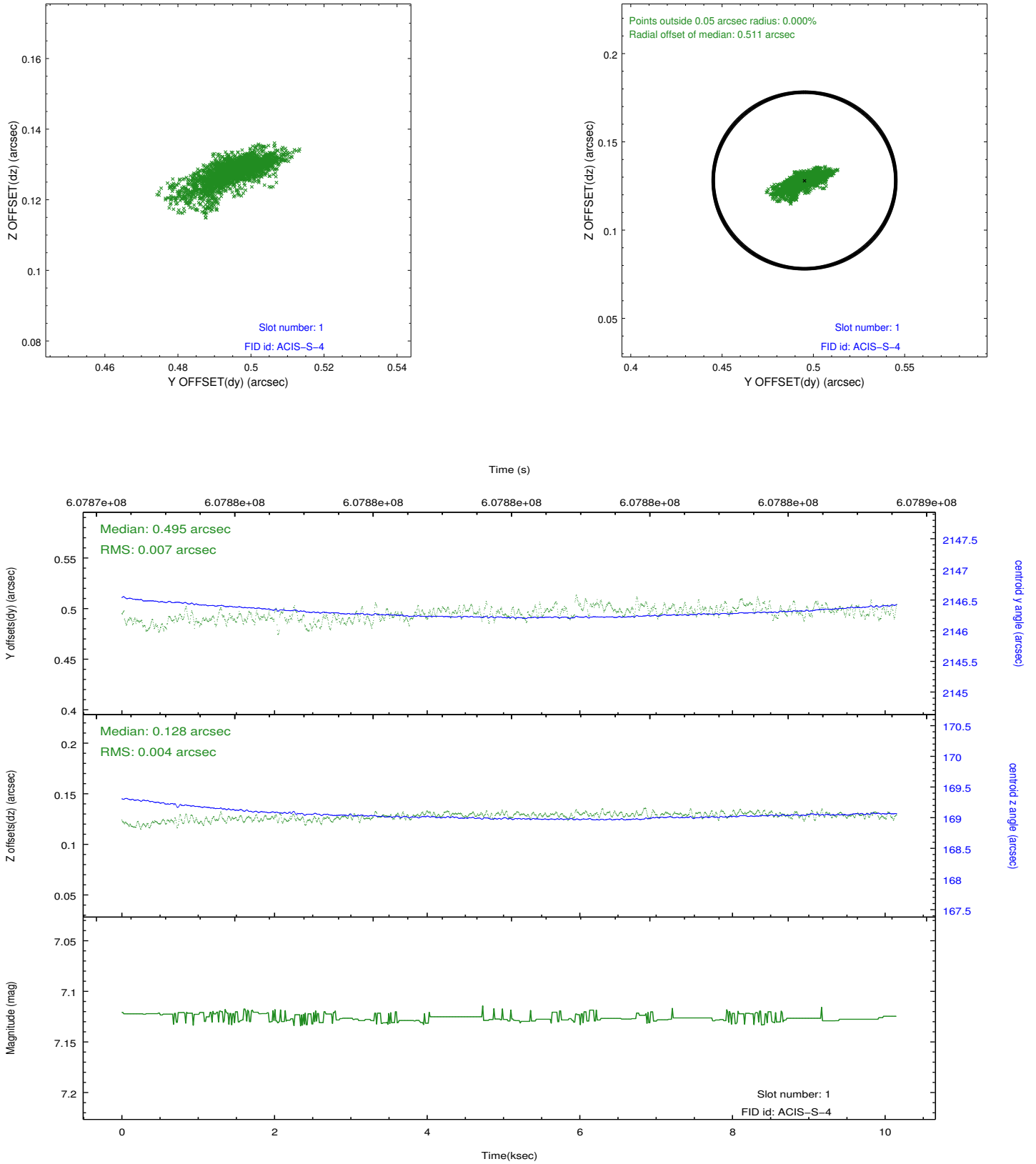


2.5 FID Slots

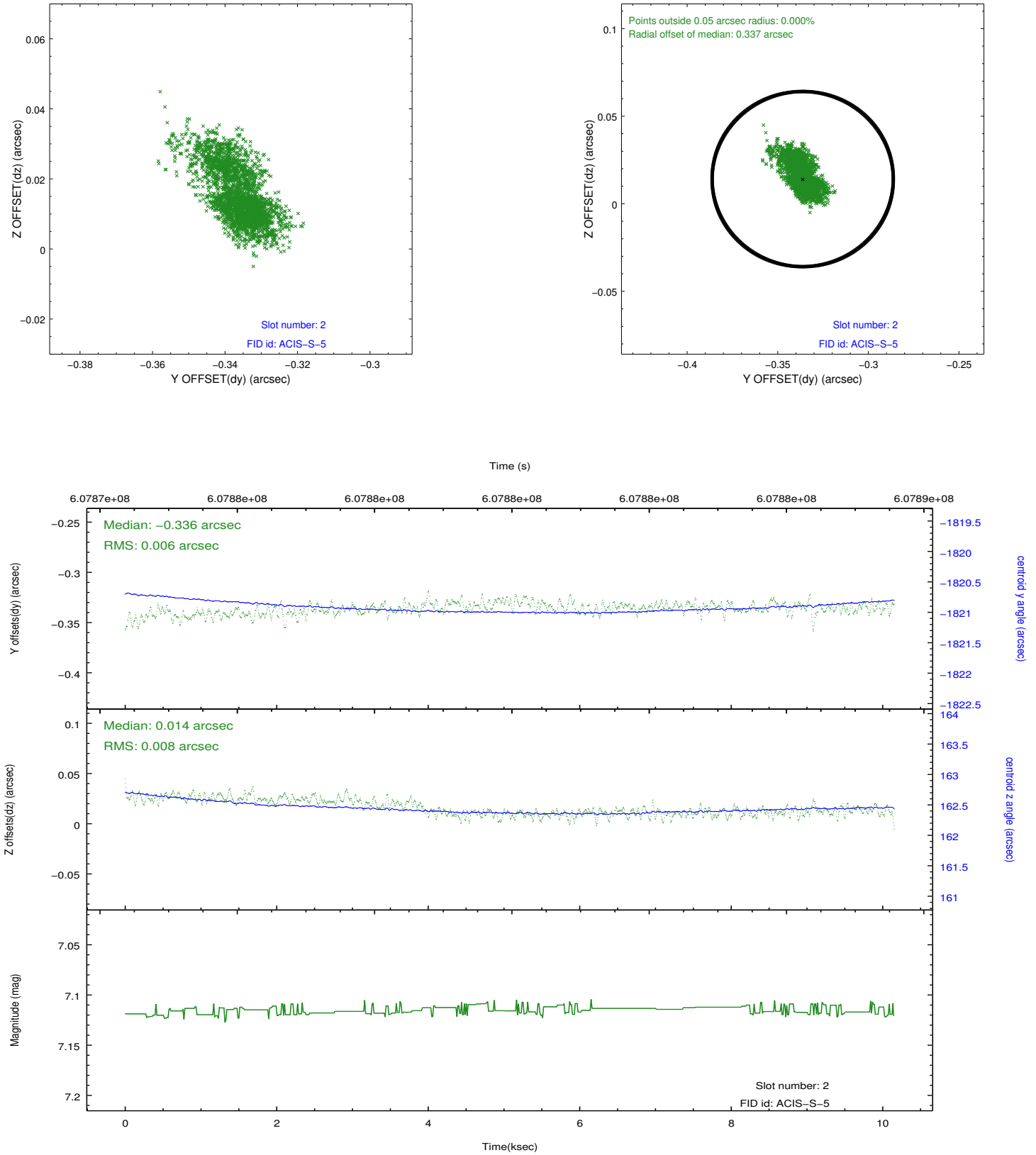
2.5.1 Slot 0



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)	2017.04.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064471558928

A.2 Comments