

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 20642 - L2 Version 1
Chandra X-Ray Center

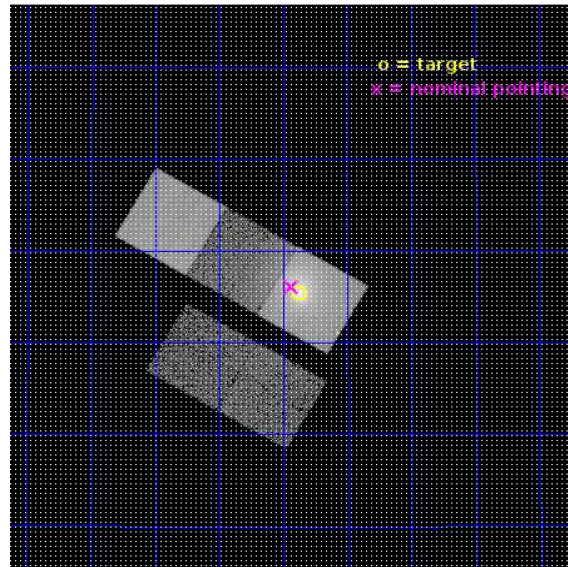
L2 Processing Date : Nov 16 2018

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1 Front

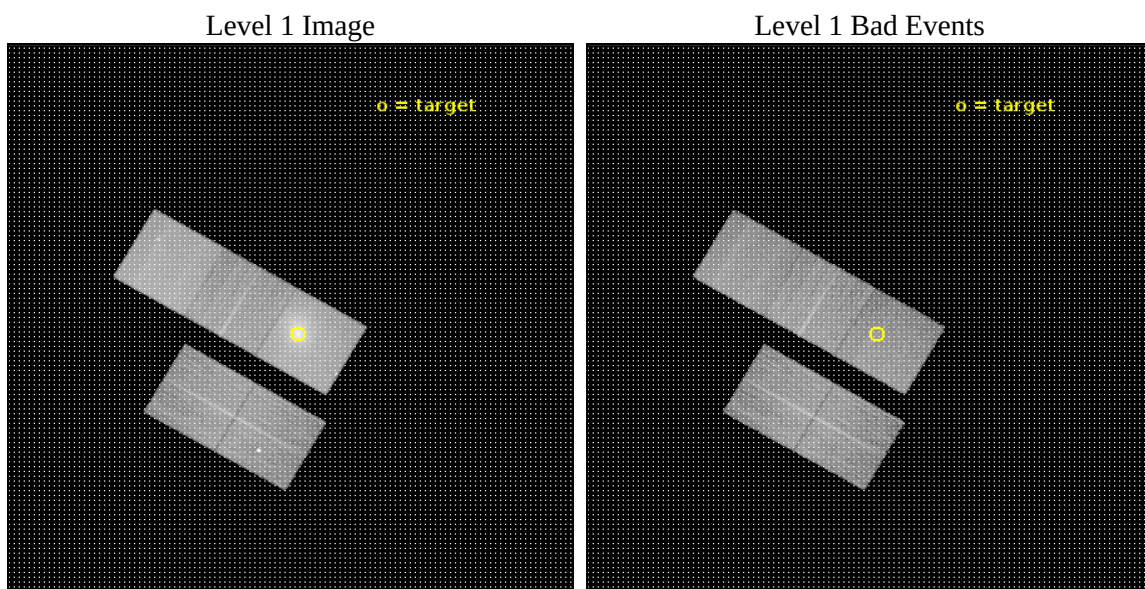
seq_num	890149	Sequence number
obs_id	20642	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.23492138065	Nominal RA [deg]
dec_nom	26.60218279304	Nominal Dec [deg]
roll_nom	30.005726152568	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15052.518101335	Sum of GTIs [s]
livetime	14855.845870838	Livetime [s]
ontime2	15049.212920547	Sum of GTIs [s]
ontime3	15052.394981384	Sum of GTIs [s]
ontime5	15052.477061391	Sum of GTIs [s]
ontime6	15052.436021328	Sum of GTIs [s]
ontime7	15052.518101335	Sum of GTIs [s]
l2events	281335	Number of level 2 events



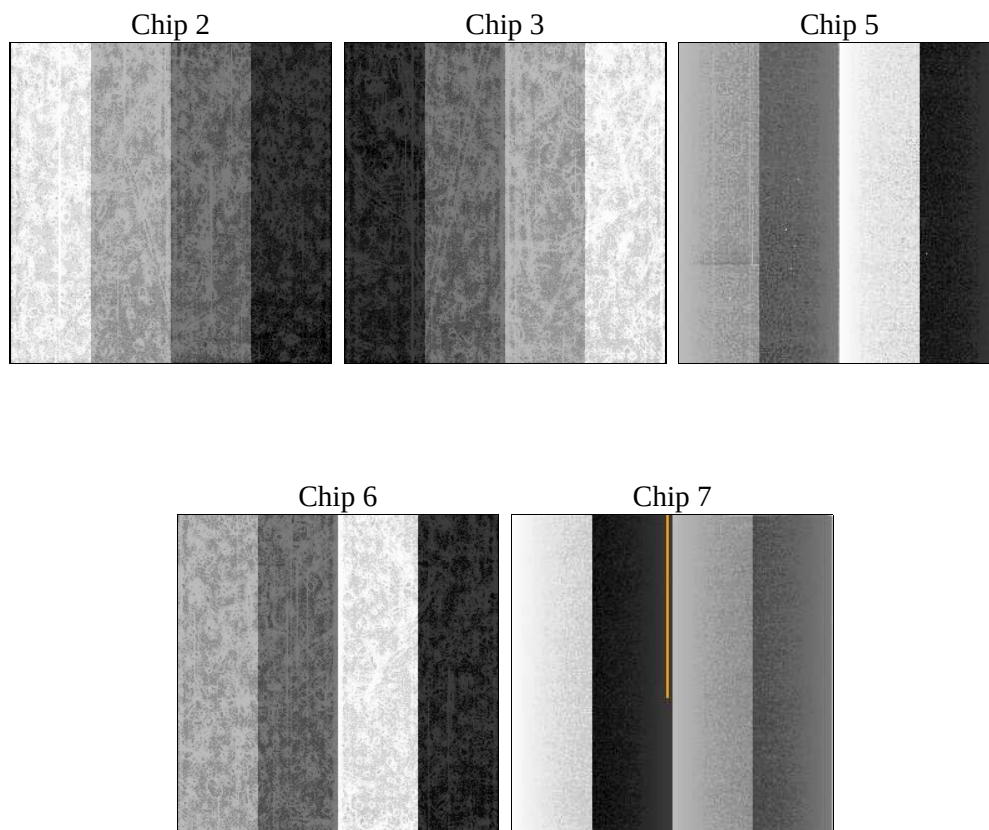
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	15052.518101335	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	15049.212920547	Sum of GTIs [s]
date	2018-11-16T20:19:08	Date and time of file creation	ontime3	15052.394981384	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	15052.477061391	Sum of GTIs [s]
			ontime6	15052.436021328	Sum of GTIs [s]
			ontime7	15052.518101335	Sum of GTIs [s]
			l1events	769267	Number of level 1 events

2.1.4 Events

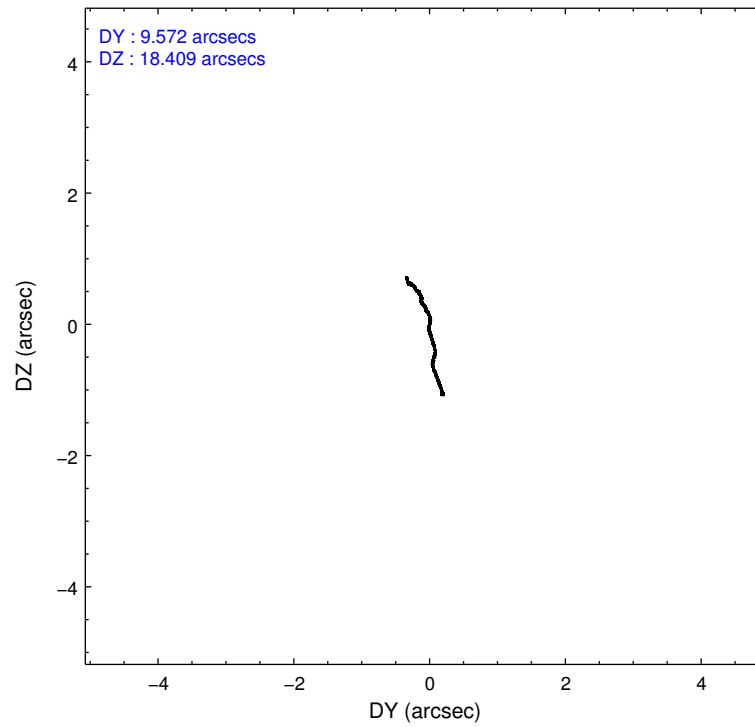
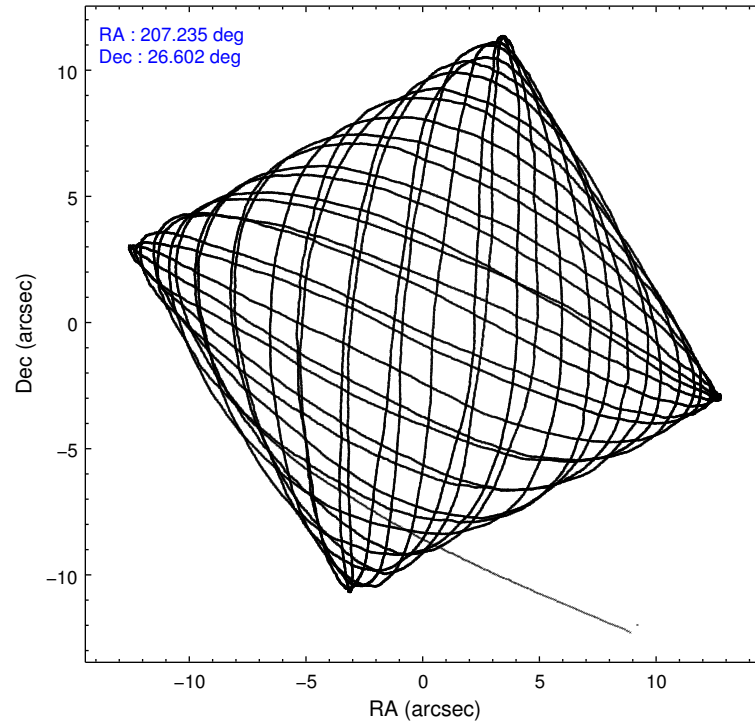
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	111266	109117	178004	125719	245161
rejected events	99489	92408	92851	105568	82808
rejected %	89%	84%	52%	83%	33%

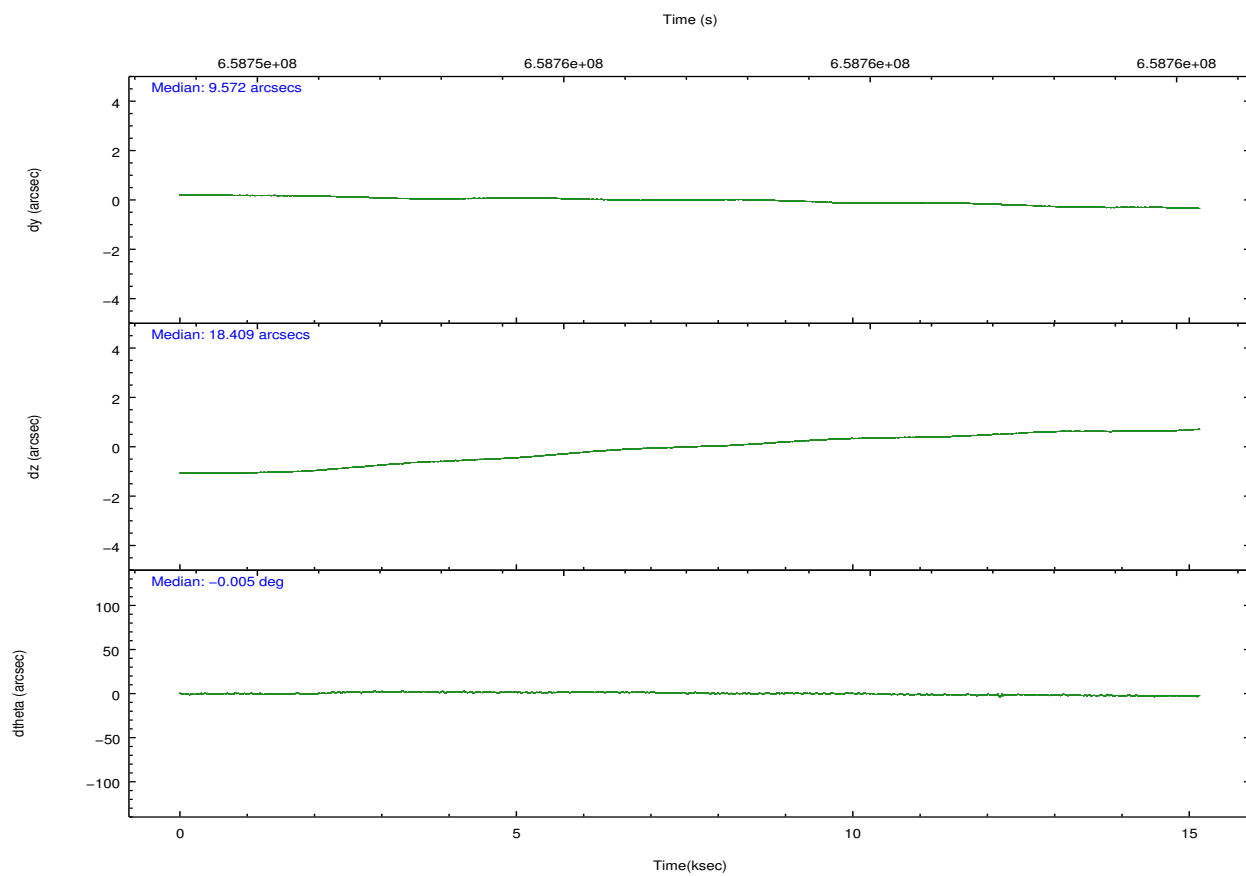
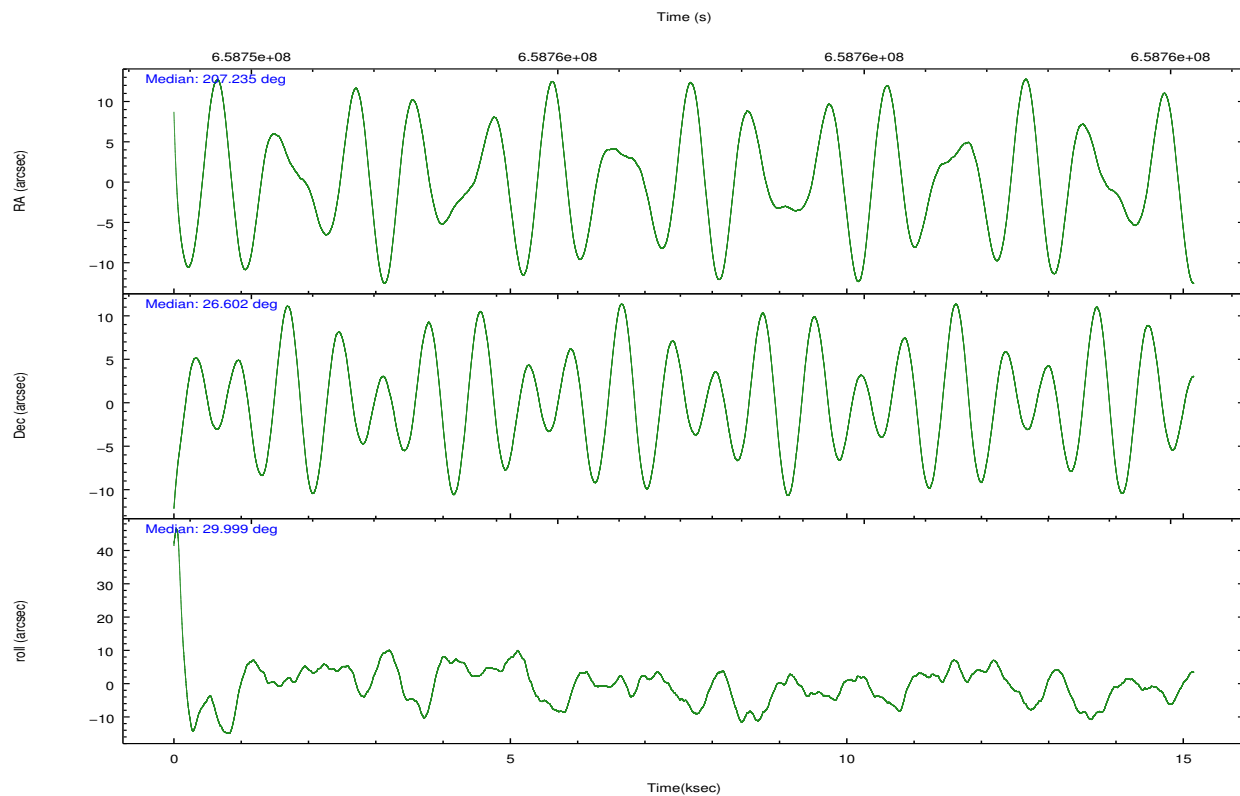
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4321	9322	5141	9607	31996
	3%	8%	2%	7%	13%
grade 1 events	67	103	452	75	240
	0%	0%	0%	0%	0%
grade 2 events	2763	2503	26750	4243	39606
	2%	2%	15%	3%	16%
grade 3 events	1193	1227	2535	1368	16189
	1%	1%	1%	1%	6%
grade 4 events	1172	1219	2574	1433	15808
	1%	1%	1%	1%	6%
grade 5 events	4160	4954	11560	4847	14473
	3%	4%	6%	3%	5%
grade 6 events	2335	2448	48189	3509	58807
	2%	2%	27%	2%	23%
grade 7 events	95255	87341	80803	100637	68042
	85%	80%	45%	80%	27%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	207.219946	207.2349213806538	CCD I2 on	Y	Y
[deg] Pointing Dec	26.578236	26.60218279303951	CCD I3 on	O1	Y
[deg] Pointing Roll	29.855749	30.00572615256803	CCD S0 on	N	N
[s] Window start time (MET)	658627269.184000	658627269.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	661219269.184000	661219269.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	N	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	658749627.184000	658748340.98983	On-chip summing requested	N	N
Observation start date	2018-11-16T09:59:18	2018-11-16T09:39:00	Subarray requested	NONE	NONE
[s] Observation end time (MET)	658764627.184000	658765263.74084	Alternating exposures requested	N	N
Observation end date	2018-11-16T14:09:18	2018-11-16T14:21:03	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



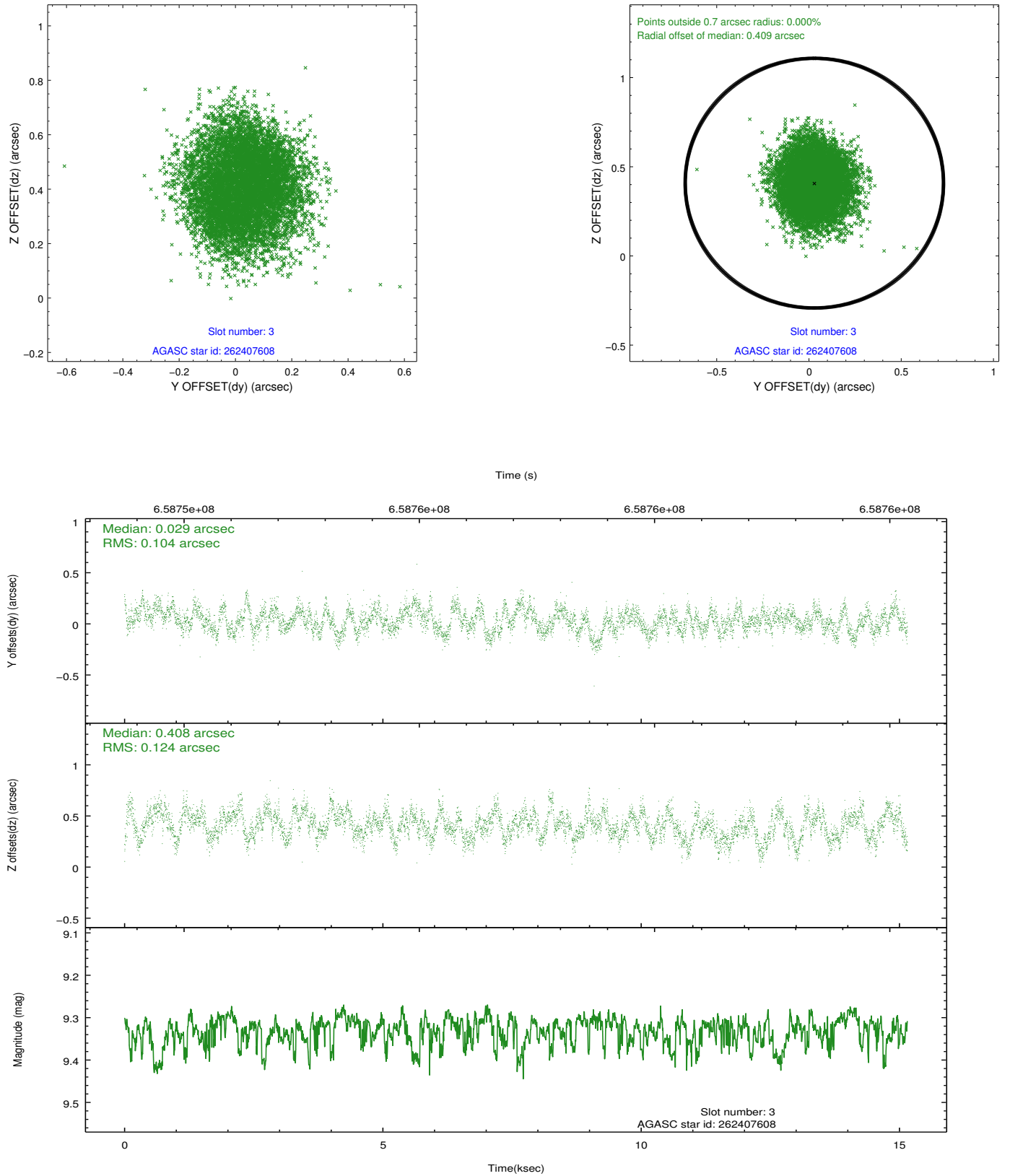


Slot Statistics

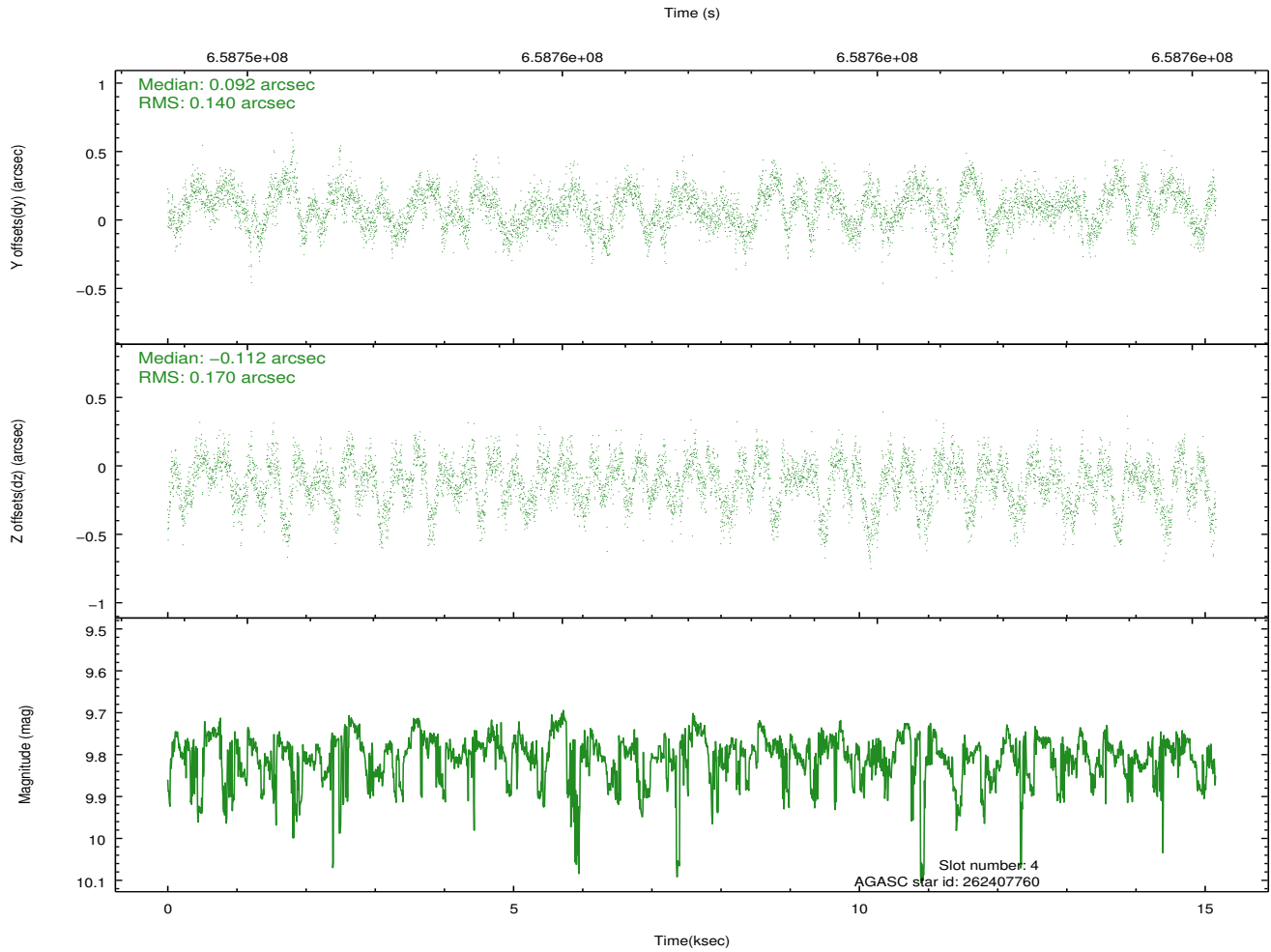
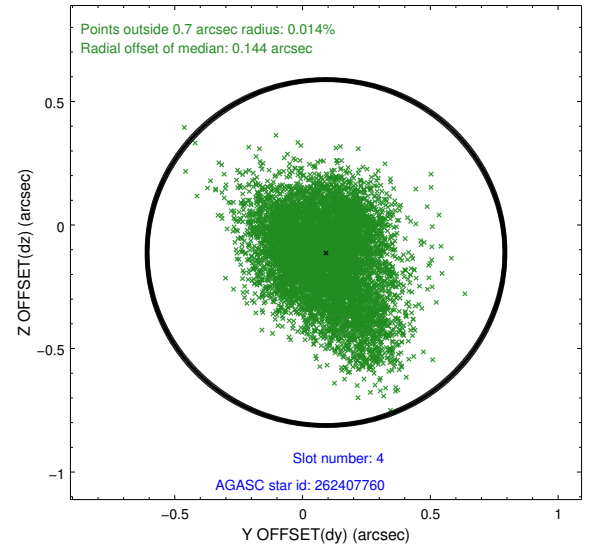
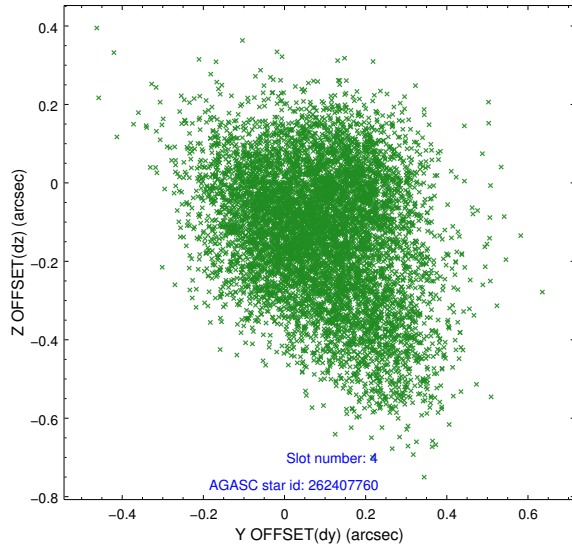
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	3697	1.000	-0.275	-0.175	0.019	0.035	0.000000	0.000000	-762.60	-1739
1	FID		ACIS-S-4	7.16	3696	1.000	0.661	0.179	0.008	0.016	0.000000	0.000000	2151.44	168
2	FID		ACIS-S-5	7.15	3697	1.000	-0.419	0.004	0.020	0.036	0.000000	0.000000	-1815.24	162
3	GUIDE	used	262407608	9.33	7380	1.000	0.029	0.408	0.175	0.267	207.378401	26.435507	188.18	-699
4	GUIDE	used	262407760	9.80	7375	1.000	0.092	-0.112	0.231	0.388	206.566773	26.577263	-1822.84	1048
5	GUIDE	used	262408936	9.62	7380	1.000	-0.075	-0.051	0.309	0.508	207.154731	26.726554	84.30	567
6	GUIDE	used	262409624	10.01	7345	1.000	-0.260	-0.523	0.329	0.556	207.610037	27.074851	1975.78	930
7	GUIDE	used	262408224	8.78	7383	1.000	0.221	0.287	0.123	0.203	207.599344	26.288334	544.09	-1512

2.4 Star Slots

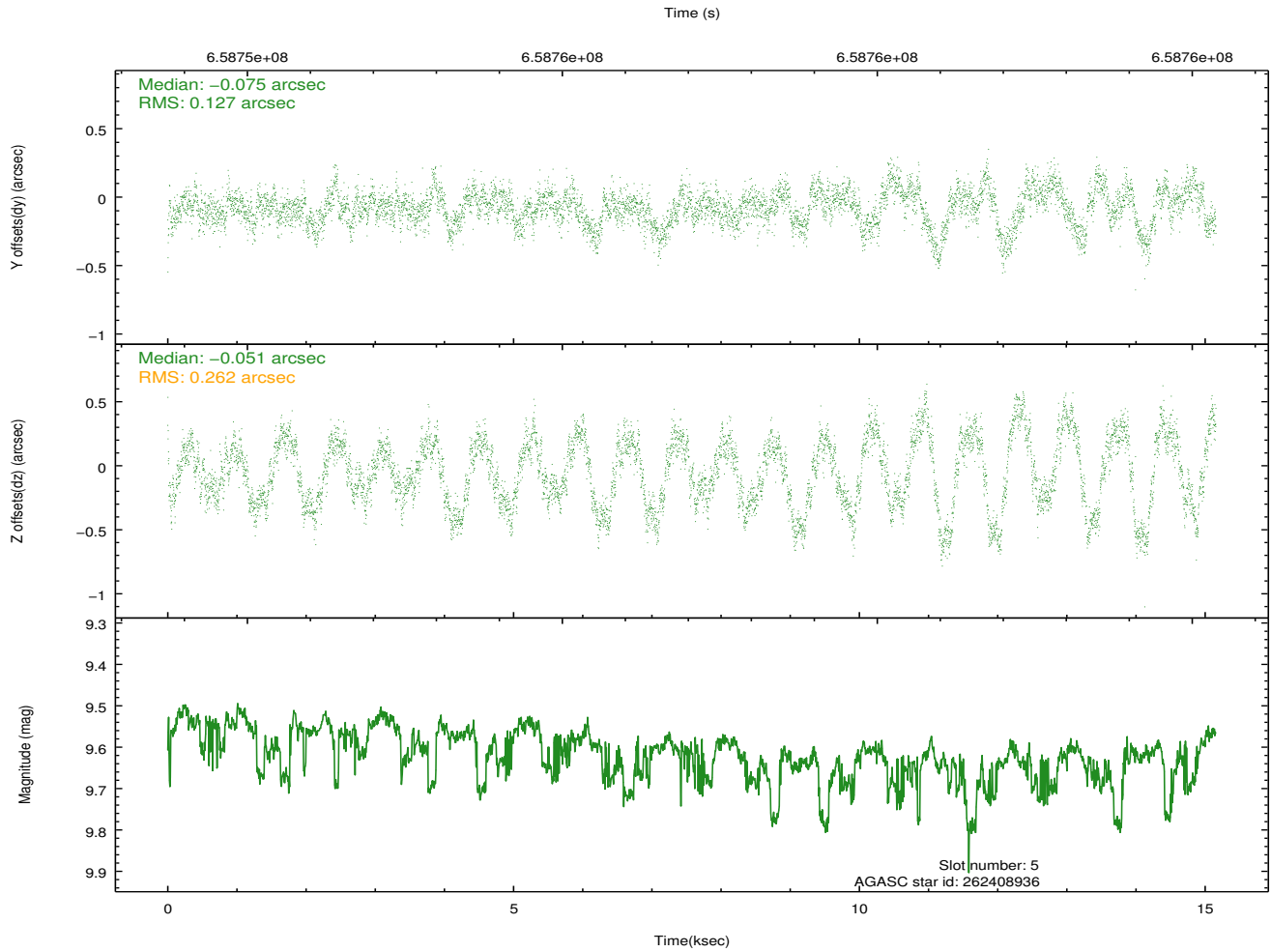
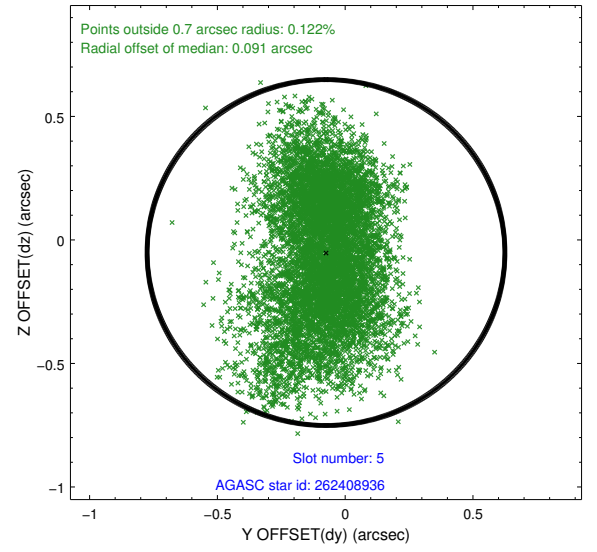
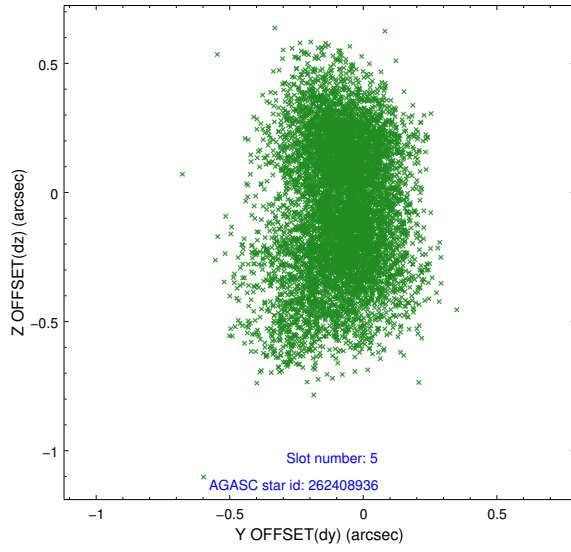
2.4.1 Slot 3



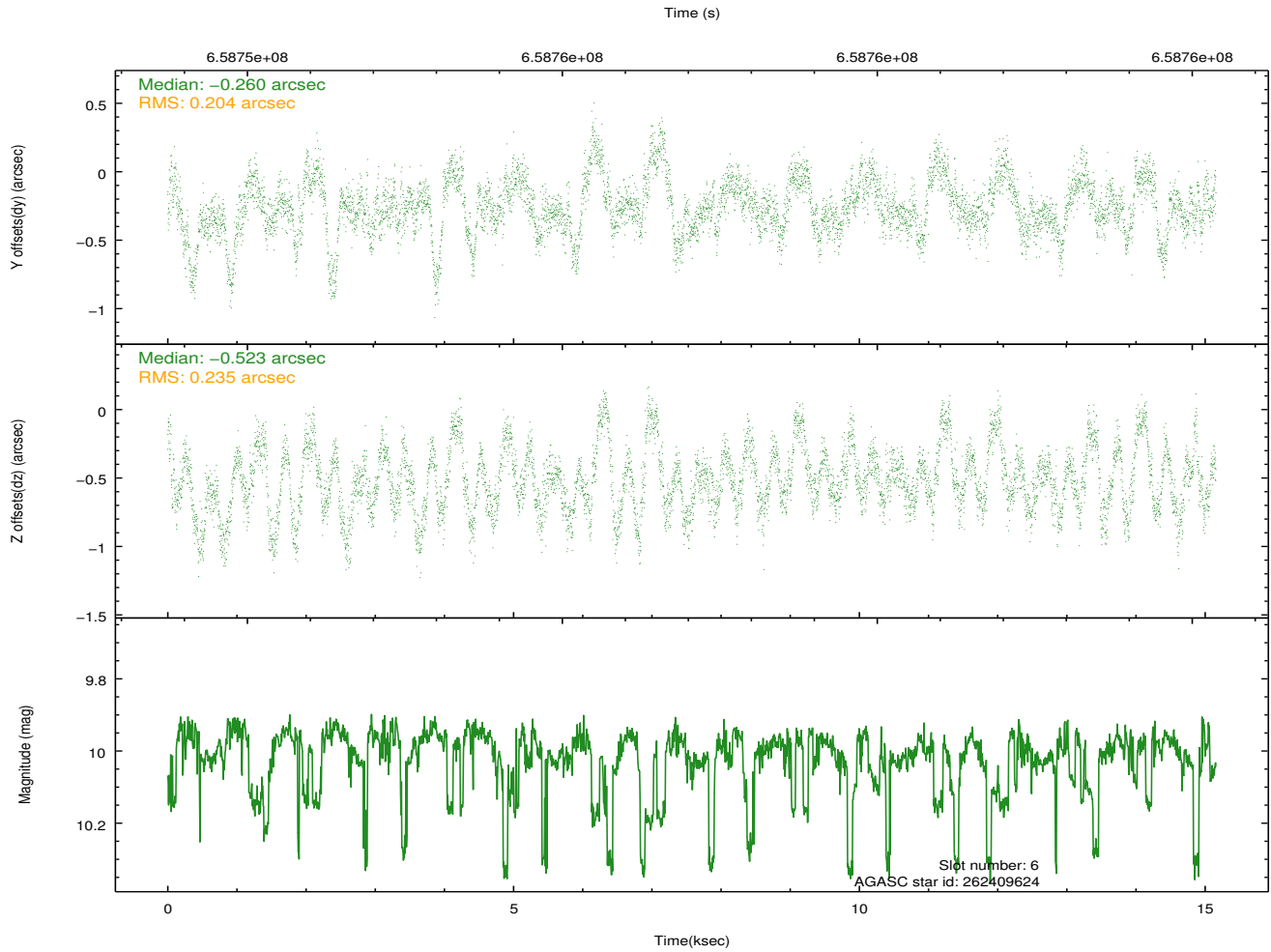
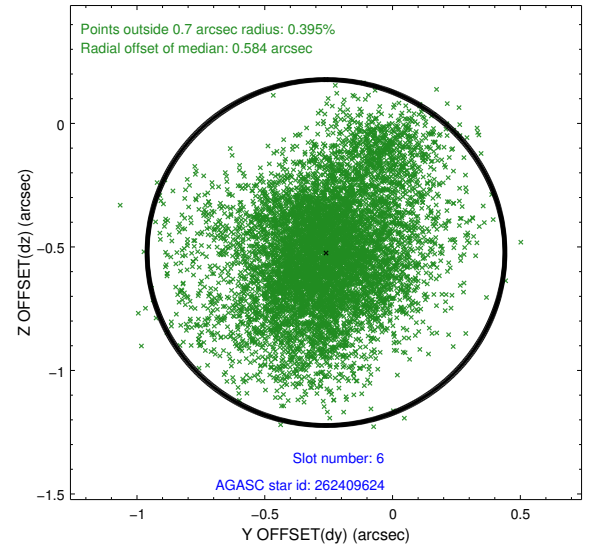
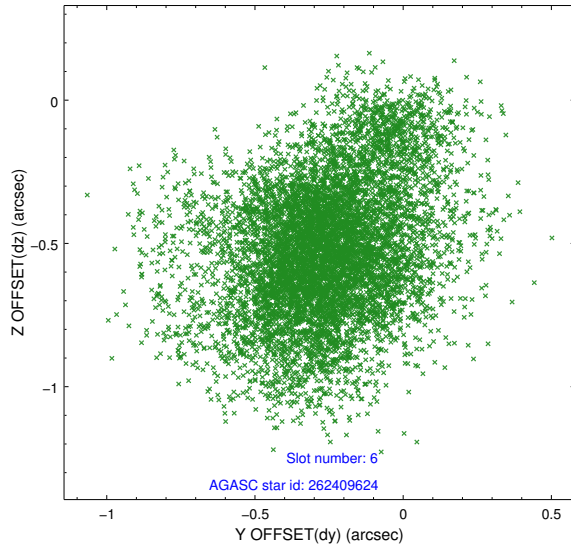
2.4.2 Slot 4



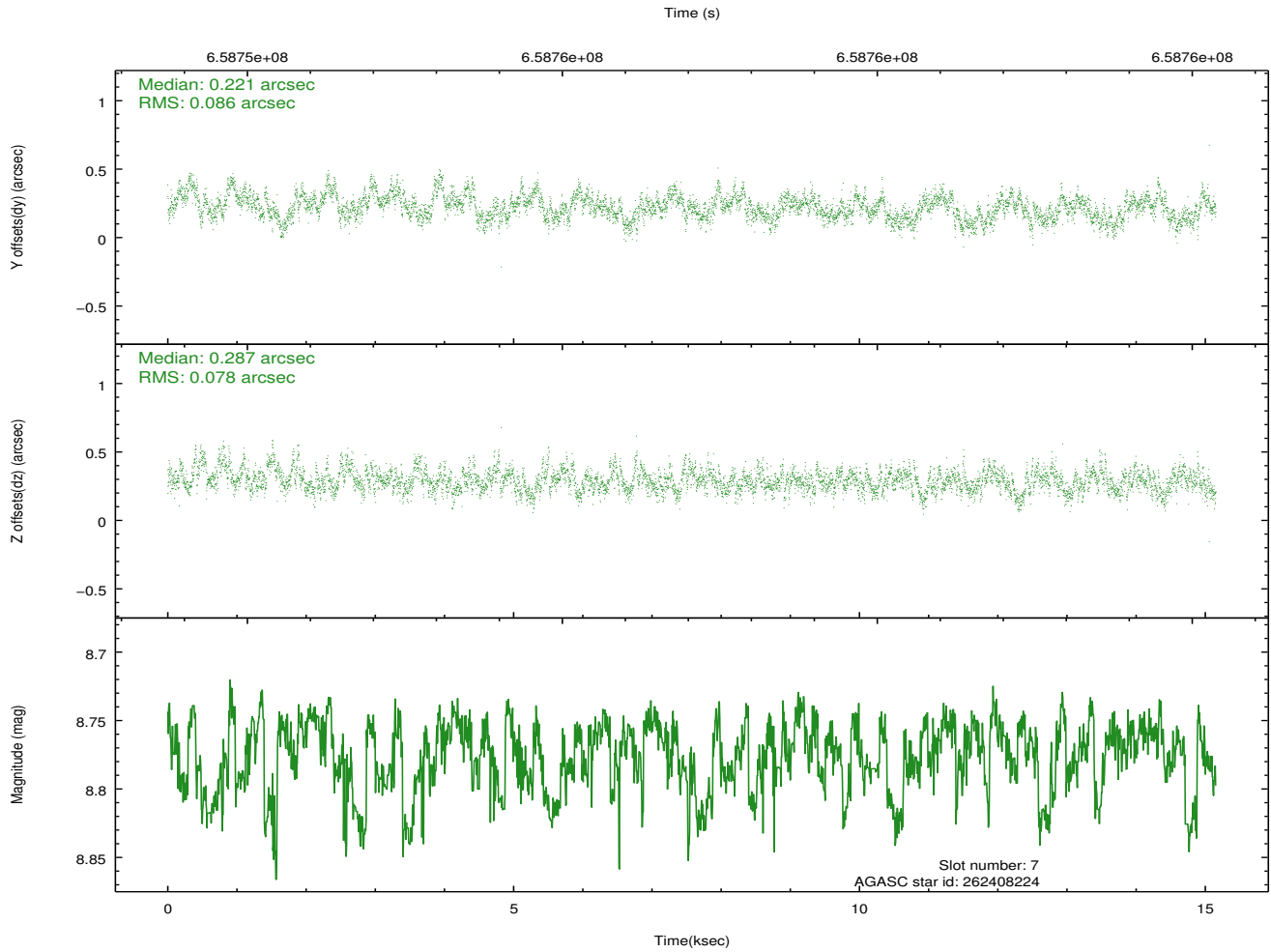
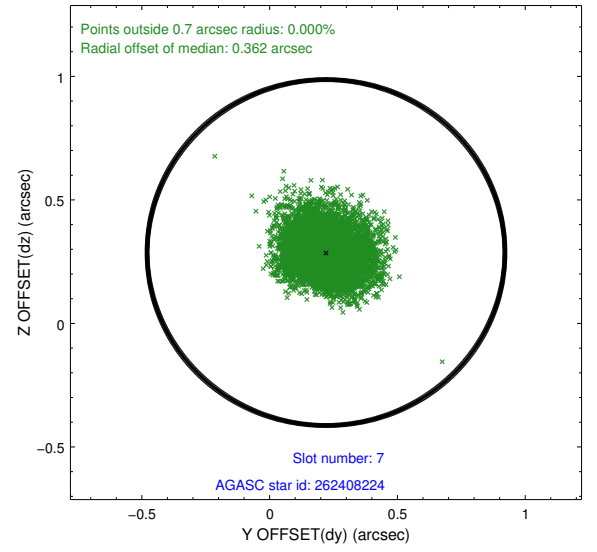
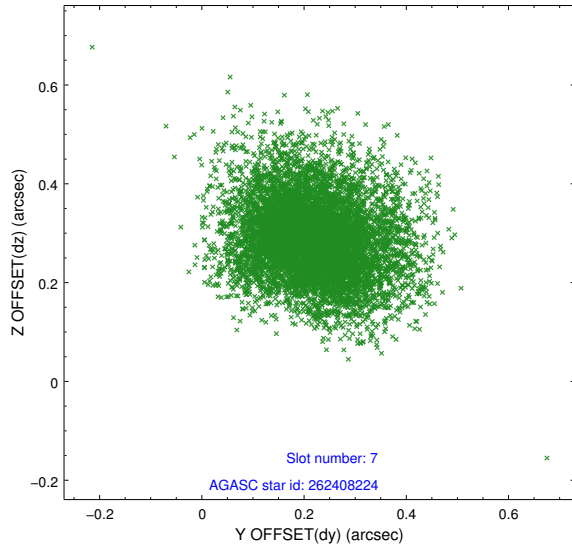
2.4.3 Slot 5



2.4.4 Slot 6

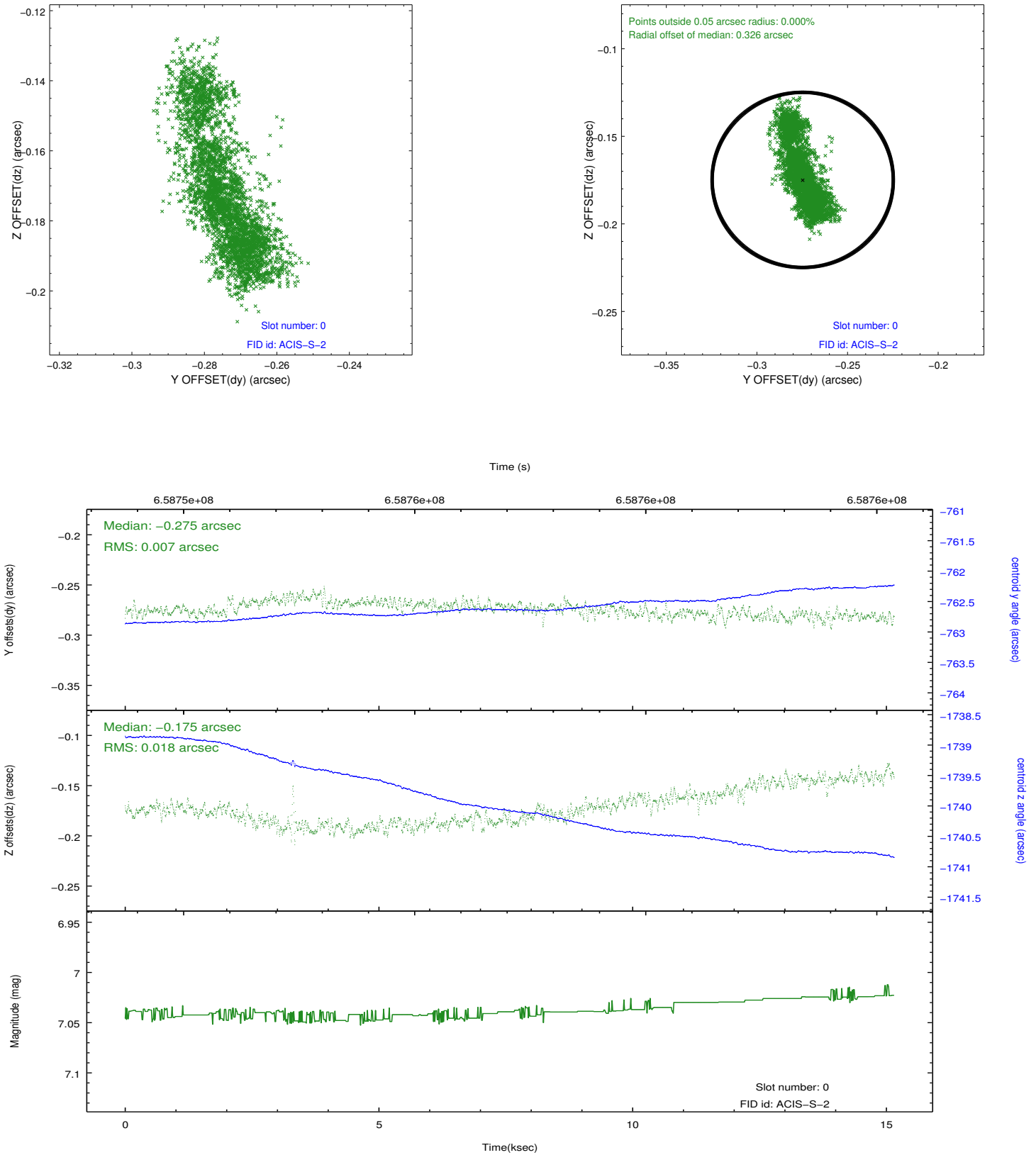


2.4.5 Slot 7

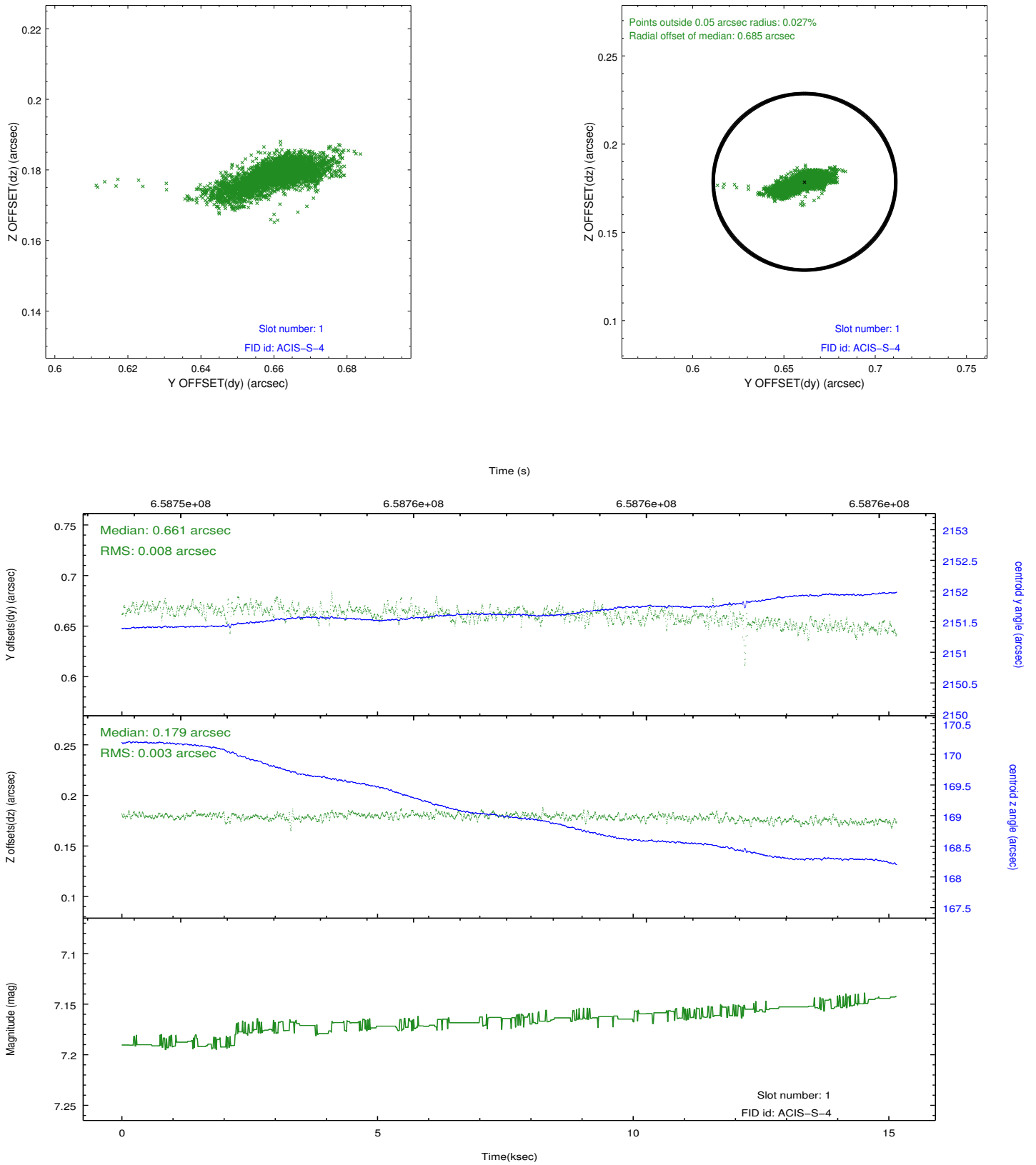


2.5 FID Slots

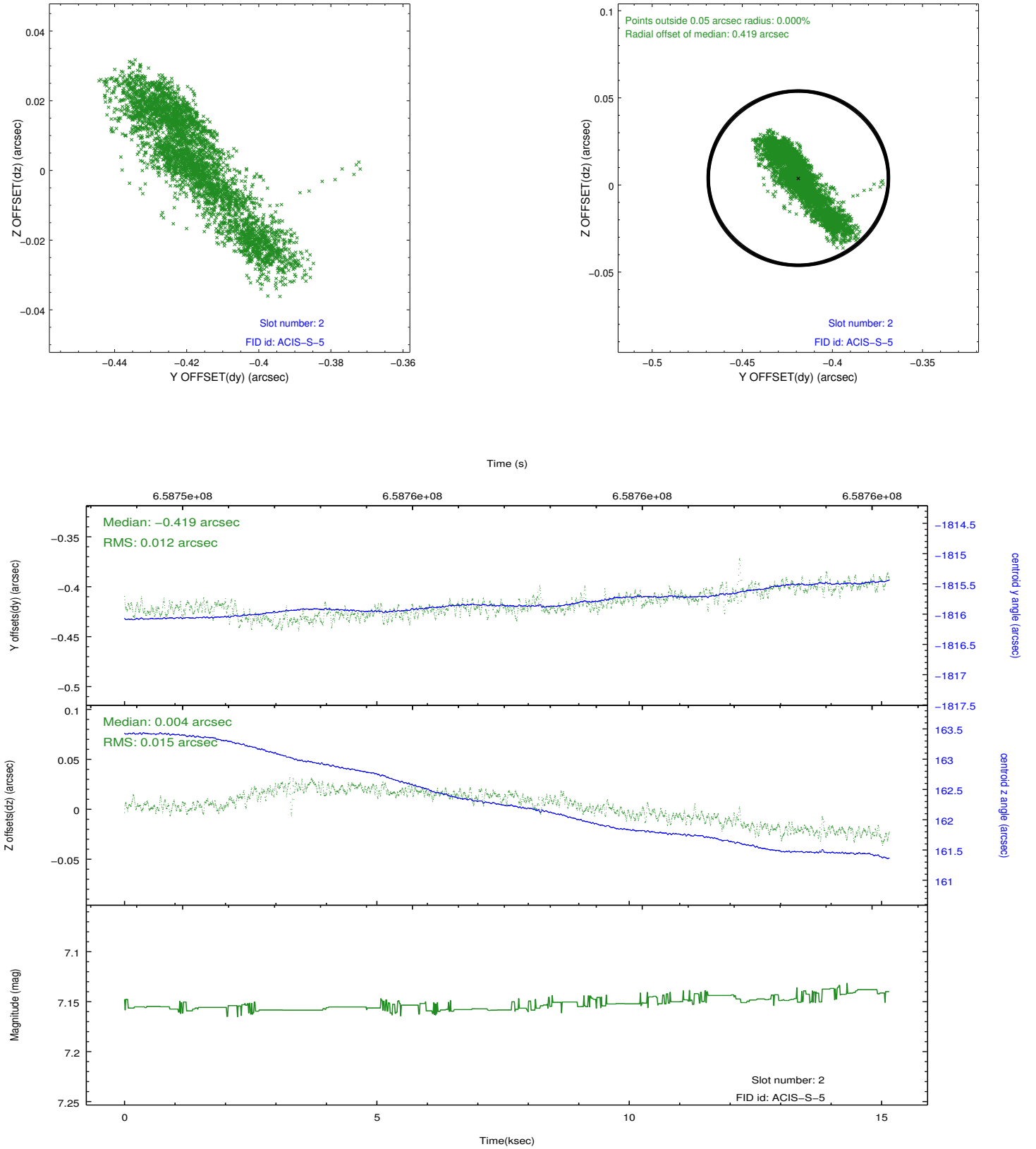
2.5.1 Slot 0



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)	2018.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.052518101335

A.2 Comments

Window preference met.