

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19868 - L2 Version 1
Chandra X-Ray Center

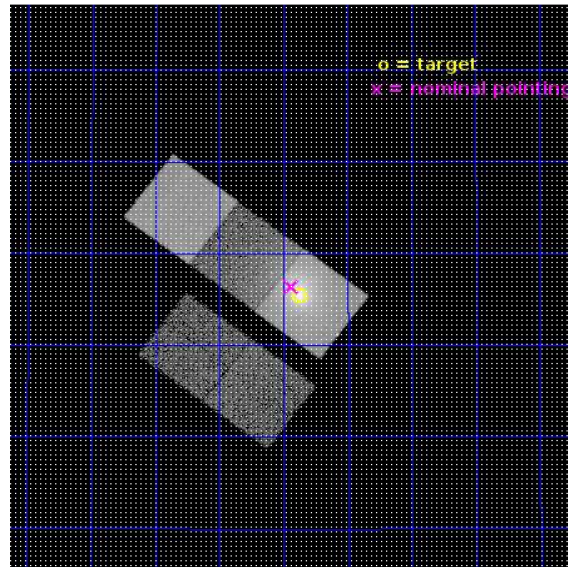
L2 Processing Date : Nov 23 2016

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1 Front

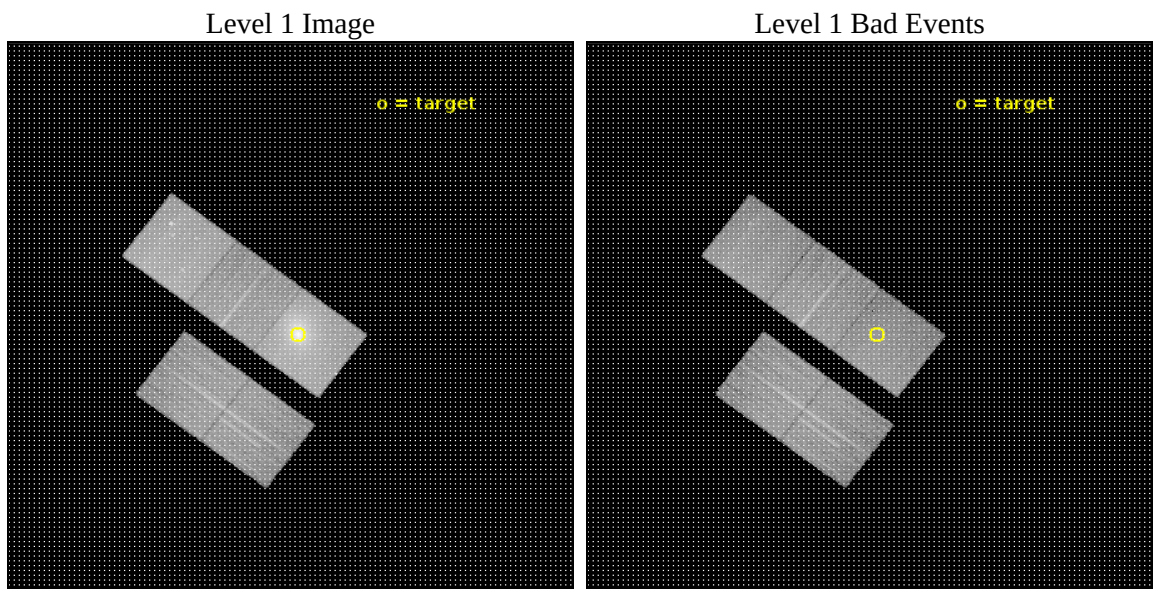
seq_num	890133	Sequence number
obs_id	19868	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.23497402192	Nominal RA [deg]
dec_nom	26.606306023208	Nominal Dec [deg]
roll_nom	36.87821639698	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16081.410947442	Sum of GTIs [s]
livetime	15871.295474451	Livetime [s]
ontime2	16081.246787429	Sum of GTIs [s]
ontime3	16081.287827492	Sum of GTIs [s]
ontime5	16081.369907498	Sum of GTIs [s]
ontime6	16078.18782711	Sum of GTIs [s]
ontime7	16081.410947442	Sum of GTIs [s]
l2events	299163	Number of level 2 events



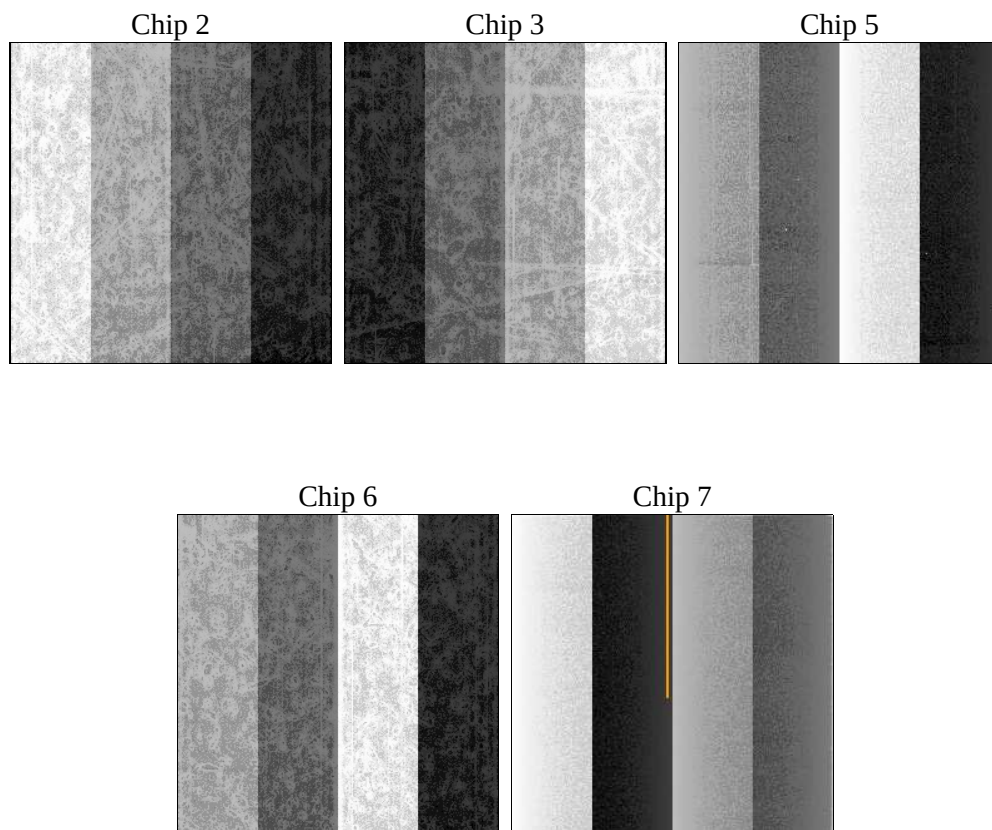
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	16024.573000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	16081.410947442	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	16081.246787429	Sum of GTIs [s]
date	2016-11-24T02:16:28	Date and time of file creation	ontime3	16081.287827492	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	16081.369907498	Sum of GTIs [s]
			ontime6	16078.18782711	Sum of GTIs [s]
			ontime7	16081.410947442	Sum of GTIs [s]
			l1events	783305	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	115546	110554	172933	121613	262659
rejected events	103611	98495	89310	99740	80678
rejected %	89%	89%	51%	82%	30%

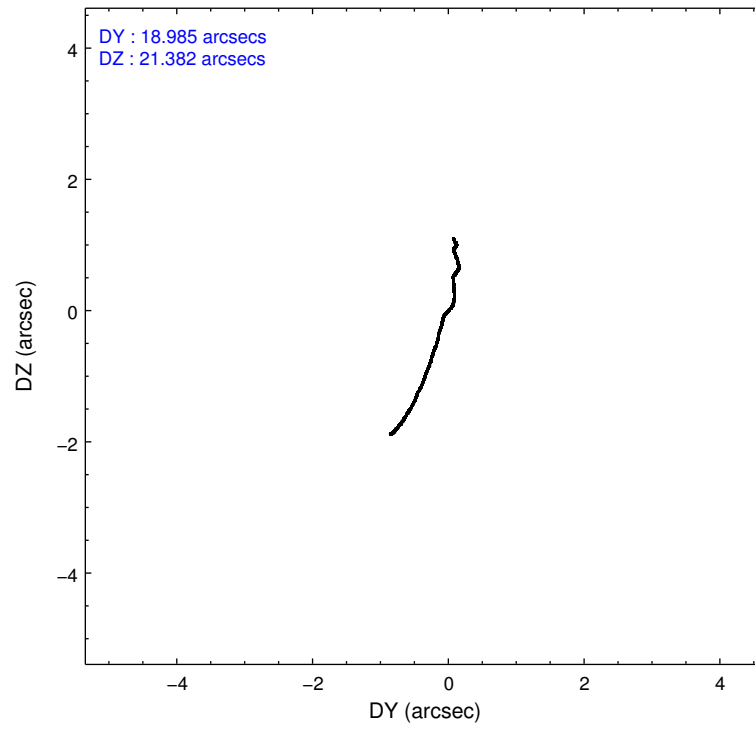
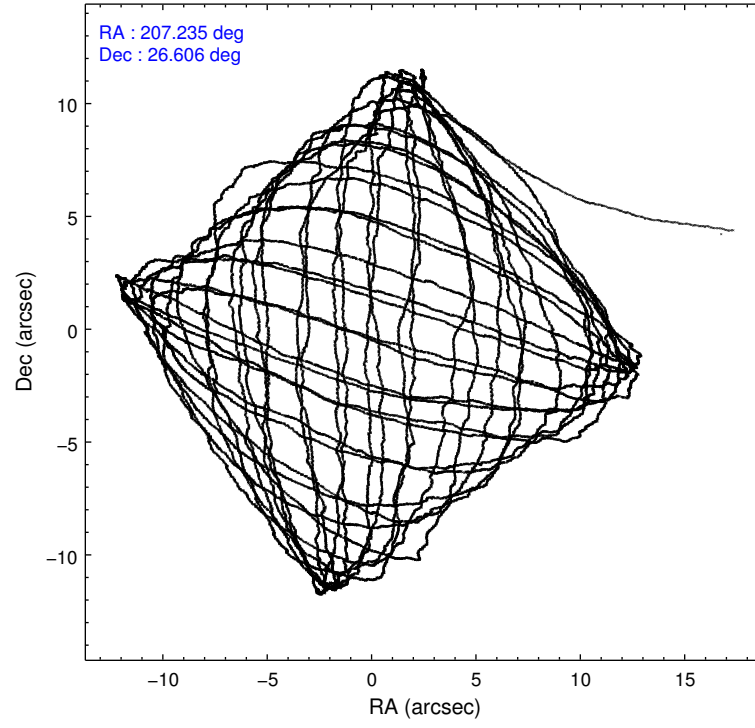
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4479	4637	6723	11613	38592
	3%	4%	3%	9%	14%
grade 1 events	68	57	651	80	208
	0%	0%	0%	0%	0%
grade 2 events	2861	2593	25990	3919	45416
	2%	2%	15%	3%	17%
grade 3 events	1213	1253	2555	1501	18374
	1%	1%	1%	1%	6%
grade 4 events	1242	1188	2574	1519	17847
	1%	1%	1%	1%	6%
grade 5 events	4197	5161	11466	5107	14757
	3%	4%	6%	4%	5%
grade 6 events	2143	2391	45791	3328	61788
	1%	2%	26%	2%	23%
grade 7 events	99343	93274	77183	94546	65677
	85%	84%	44%	77%	25%

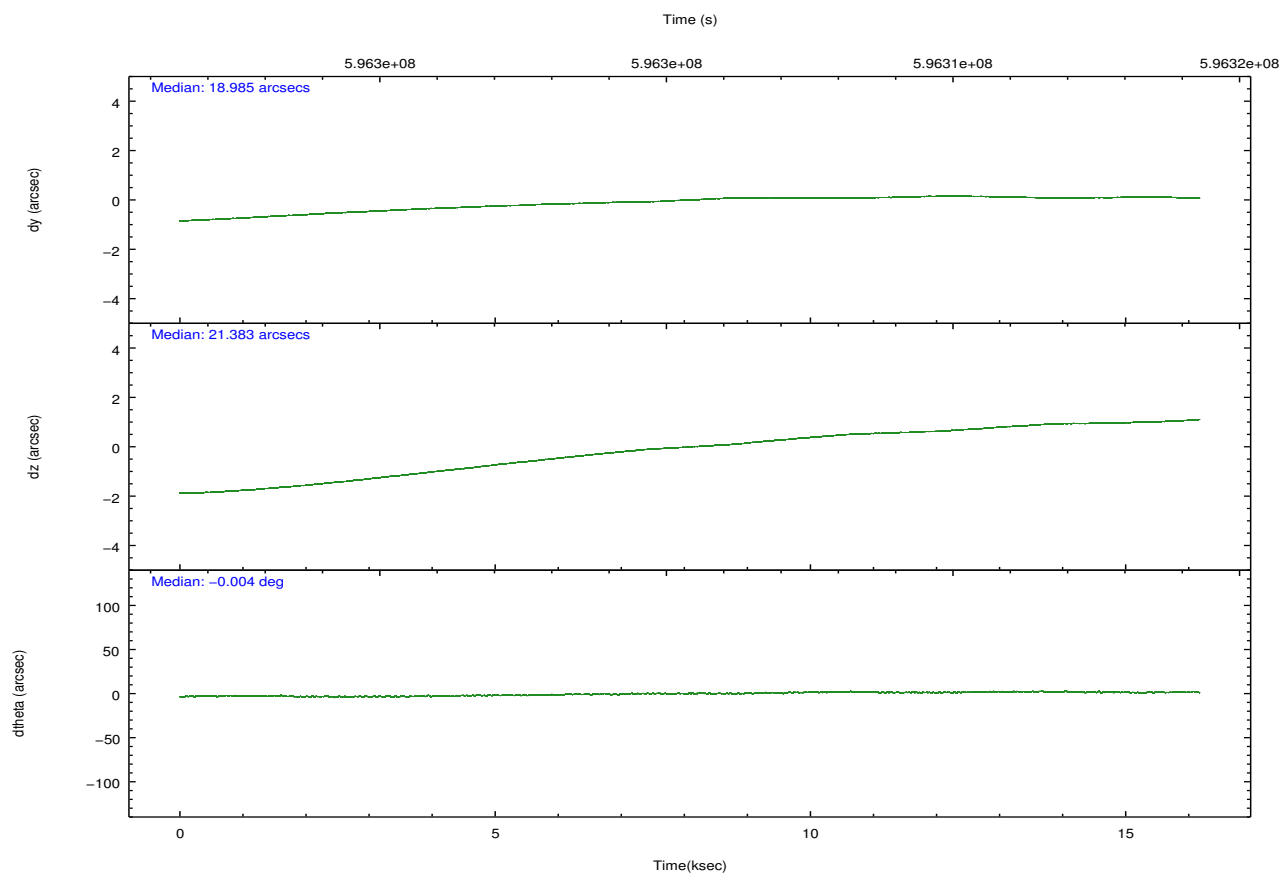
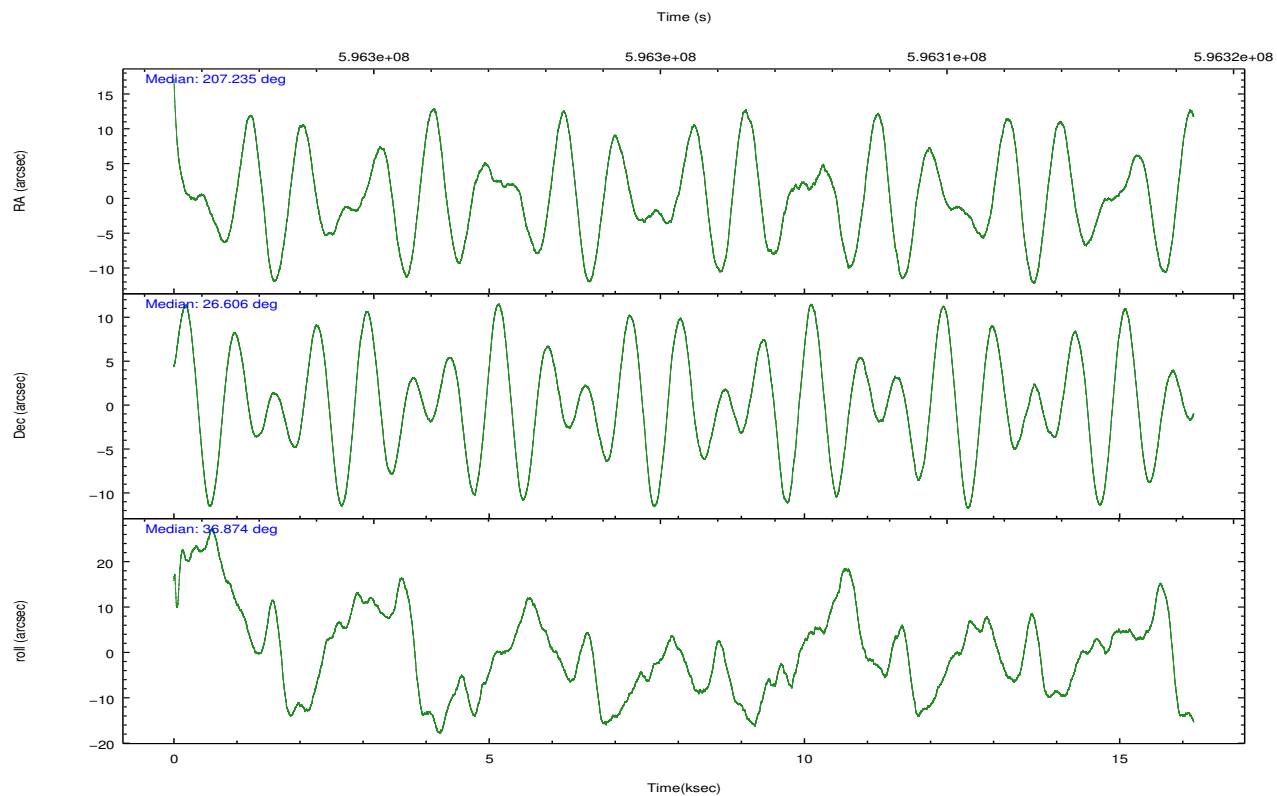
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.223283	207.2349740219157
[deg] Pointing Dec	26.580911	26.60630602320794
[deg] Pointing Roll	36.726811	36.87821639698028
[s] Window start time (MET)	595555268.184000	595555268.184000
[s] Window stop time (MET)	598147268.184000	598147268.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	596297474.184000	596296406.93401
Observation start date	2016-11-23T14:10:06	2016-11-23T13:53:26
[s] Observation end time (MET)	596313499.184000	596313714.0599999
Observation end date	2016-11-23T18:37:11	2016-11-23T18:41:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	Y	Y
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



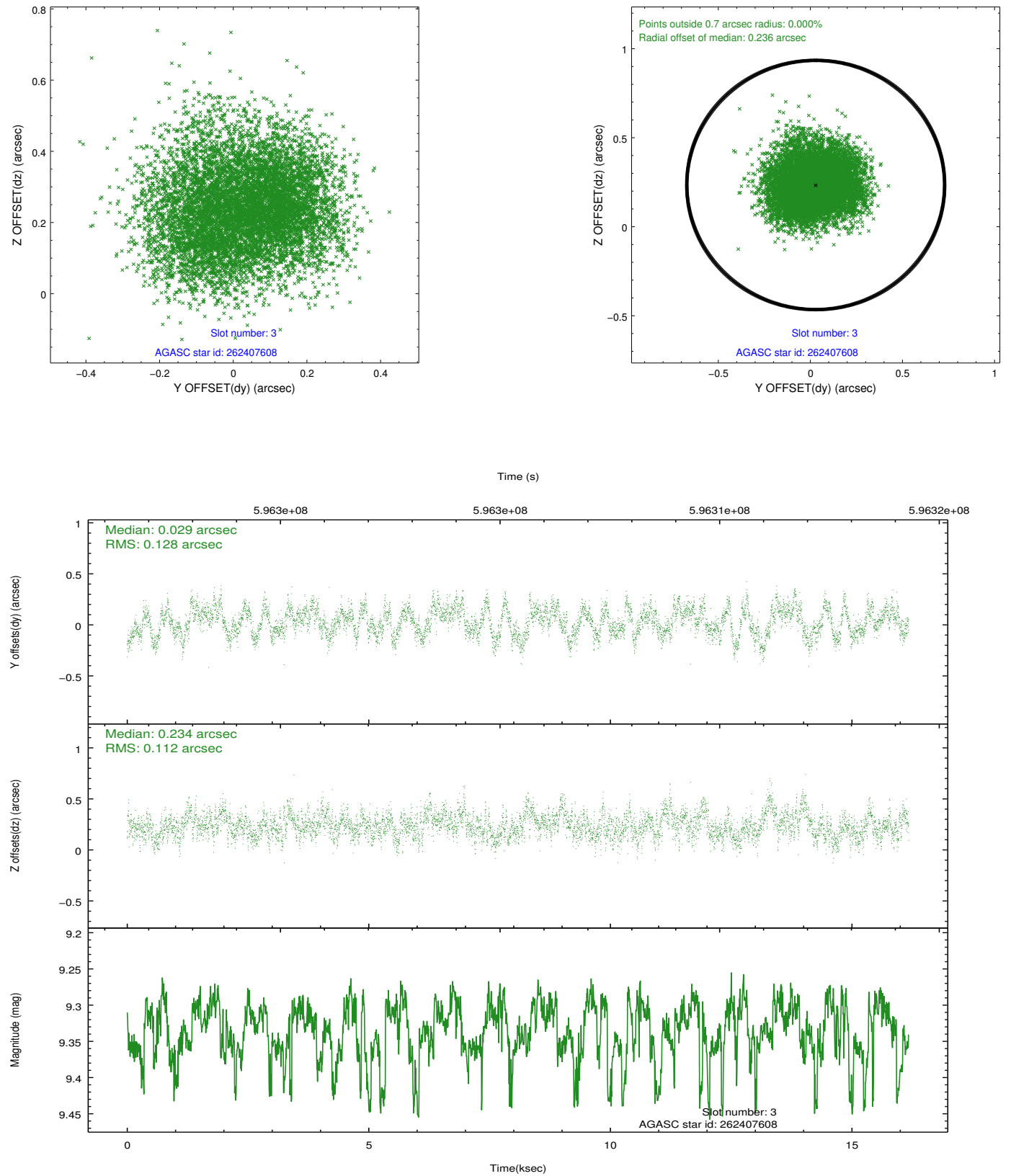


Slot Statistics

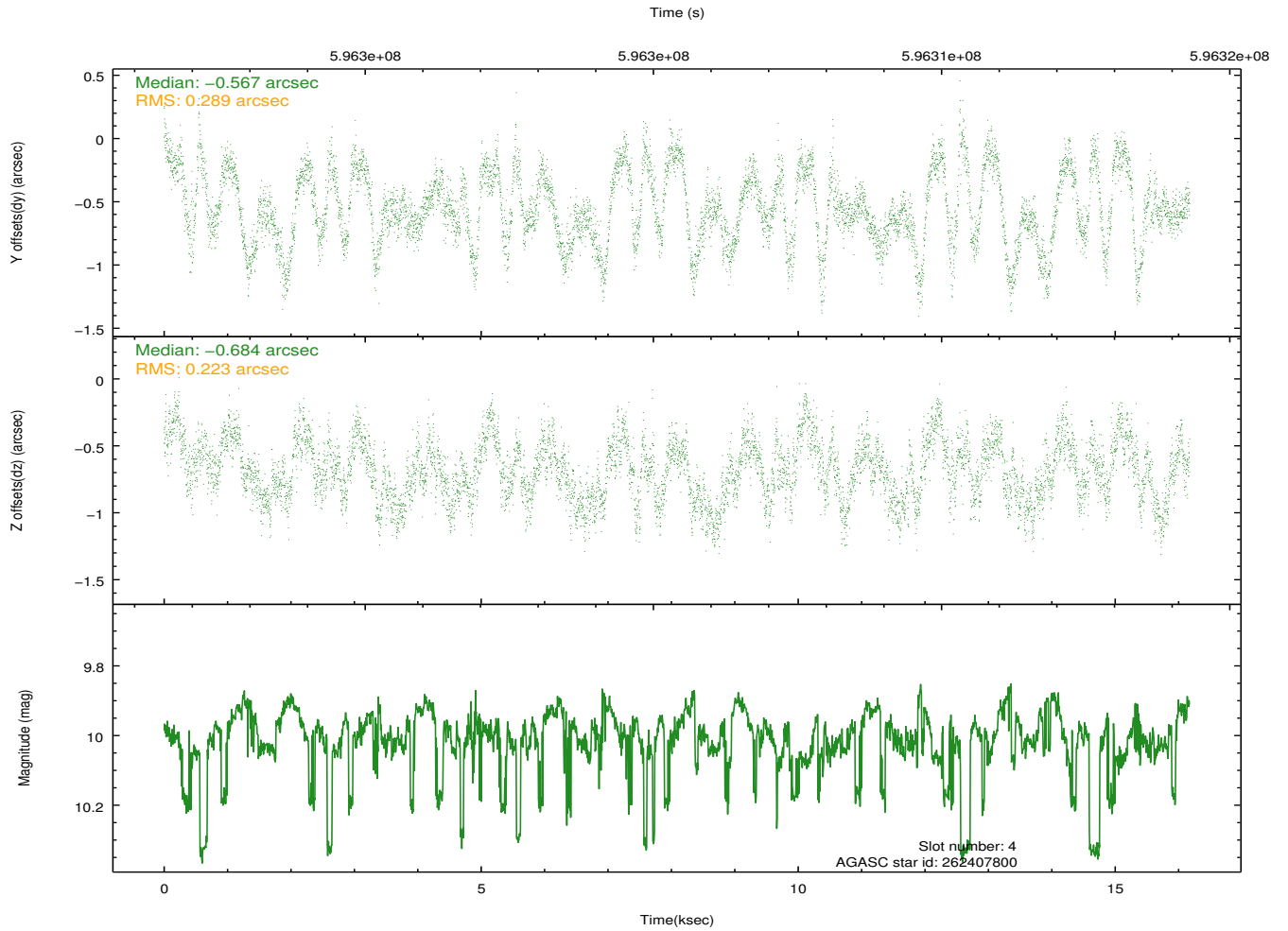
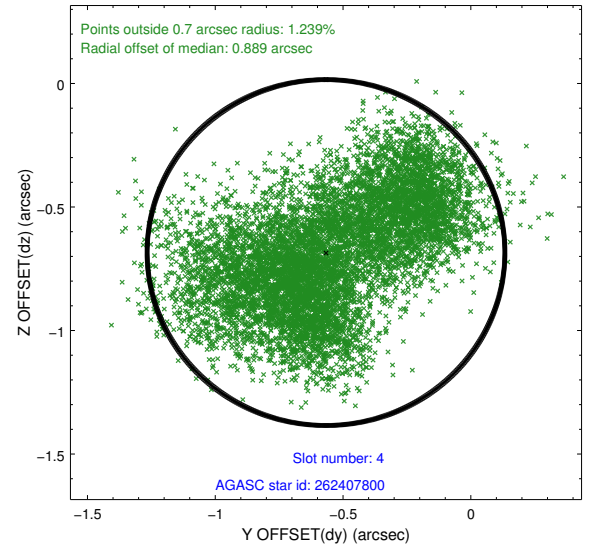
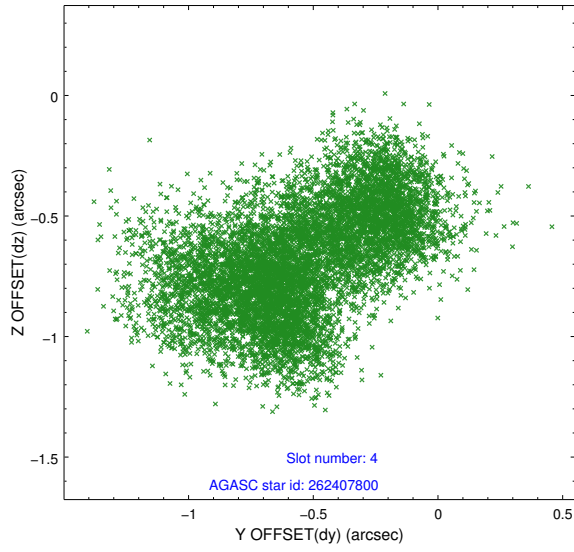
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	3945	-0.223	-0.149	0.024	0.034	0.000000	0.000000	-772.13	-1742.90
1	FID		ACIS-S-4	7.21	3945	0.498	0.148	0.013	0.019	0.000000	0.000000	2141.73	165.61
2	FID		ACIS-S-5	7.22	3945	-0.306	0.009	0.021	0.027	0.000000	0.000000	-1824.72	159.43
3	GUIDE	used	262407608	9.33	7878	0.029	0.234	0.185	0.284	207.378401	26.435507	88.71	-718.24
4	GUIDE	used	262407800	10.01	7830	-0.567	-0.684	0.403	0.601	207.321181	27.251762	1692.43	1749.24
5	GUIDE	used	262408096	9.32	7880	0.301	-0.172	0.287	0.430	207.011678	26.515421	-686.23	219.72
6	GUIDE	used	262408936	9.67	7871	-0.208	-0.124	0.247	0.380	207.154731	26.726554	137.26	551.70
7	GUIDE	used	262411960	9.65	7879	0.414	0.725	0.196	0.306	207.327895	25.881727	-1232.43	-2219.21

2.4 Star Slots

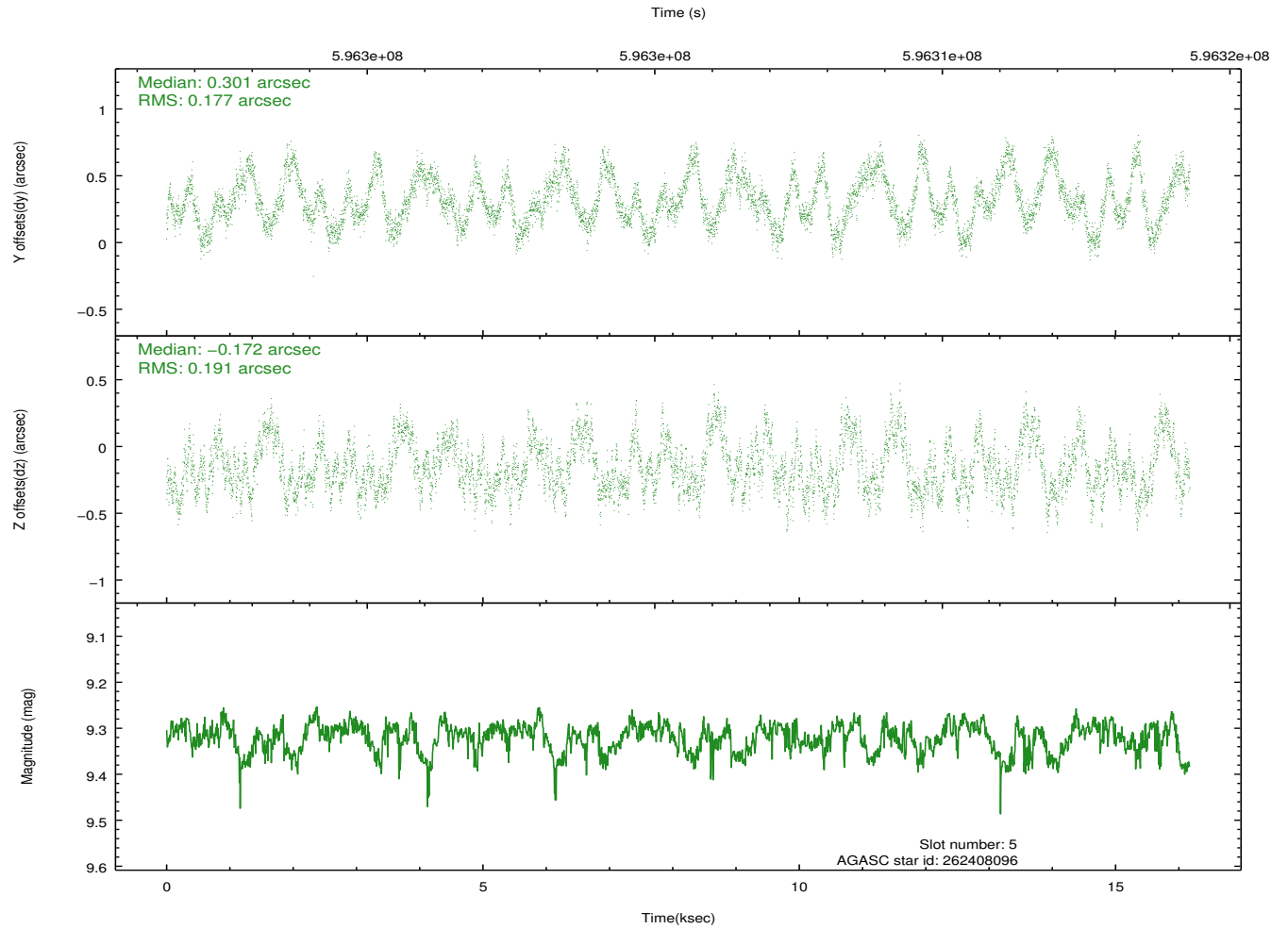
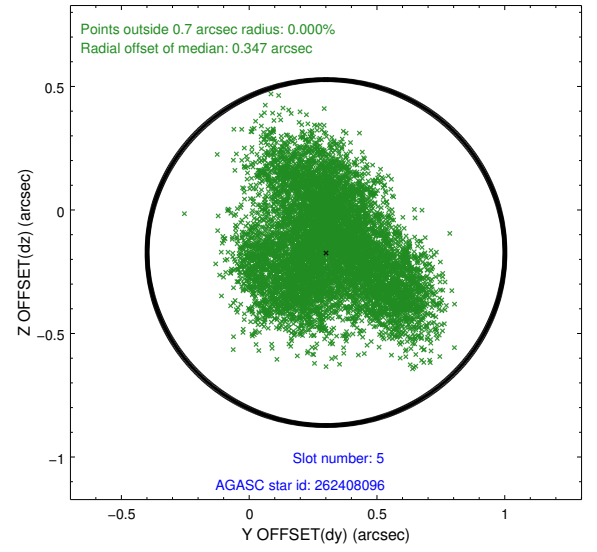
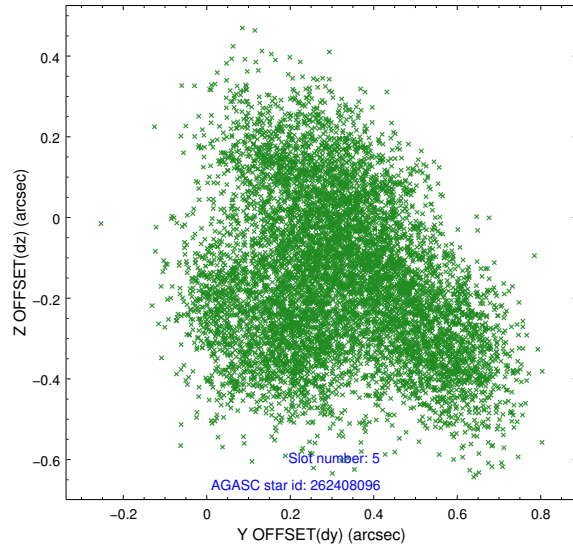
2.4.1 Slot 3



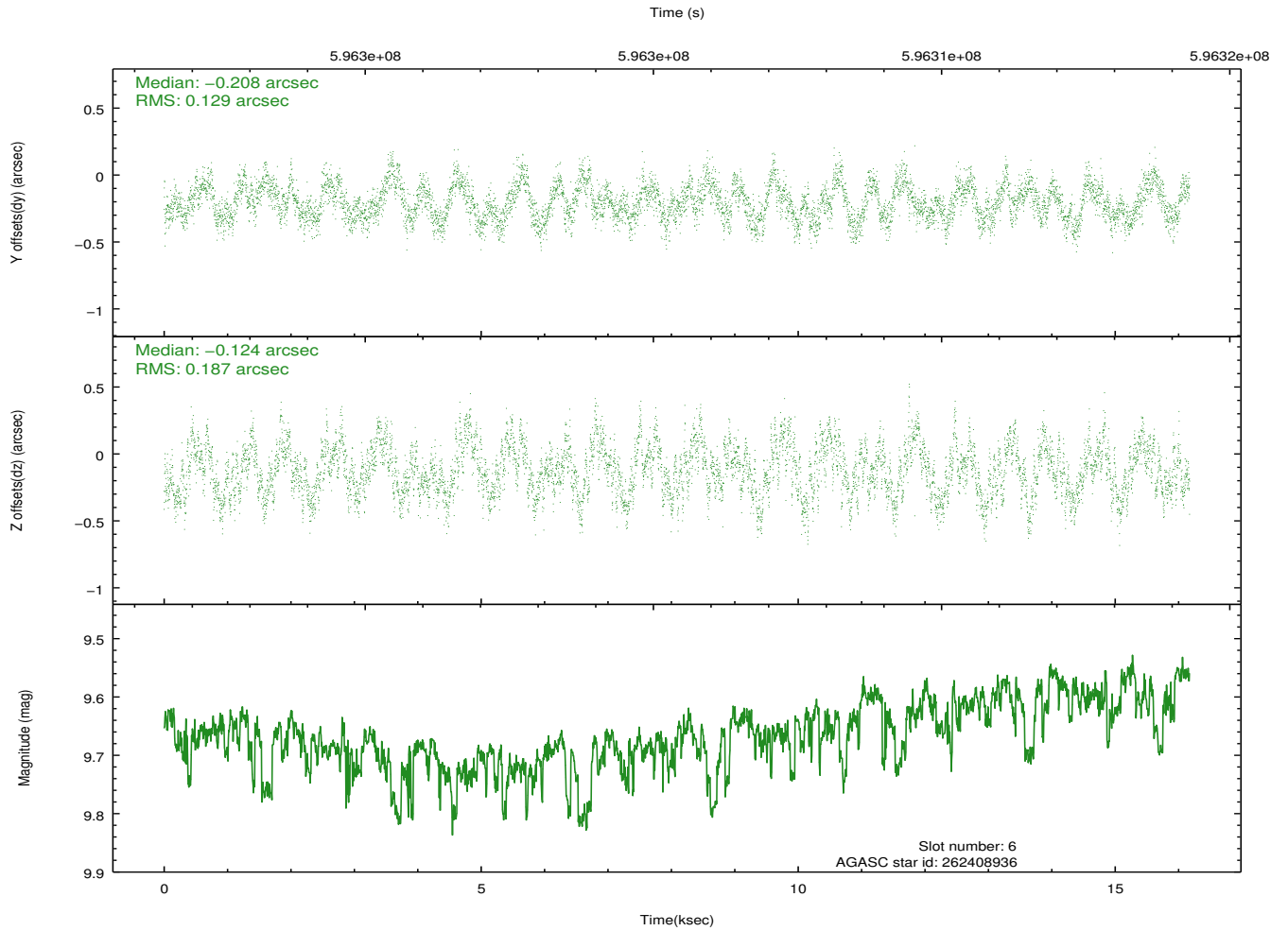
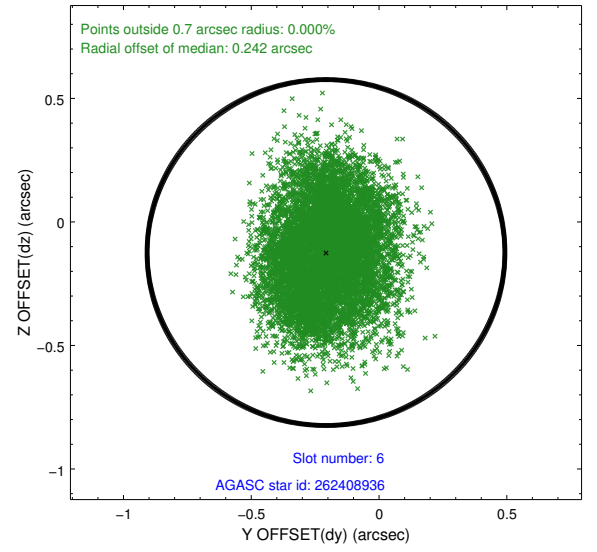
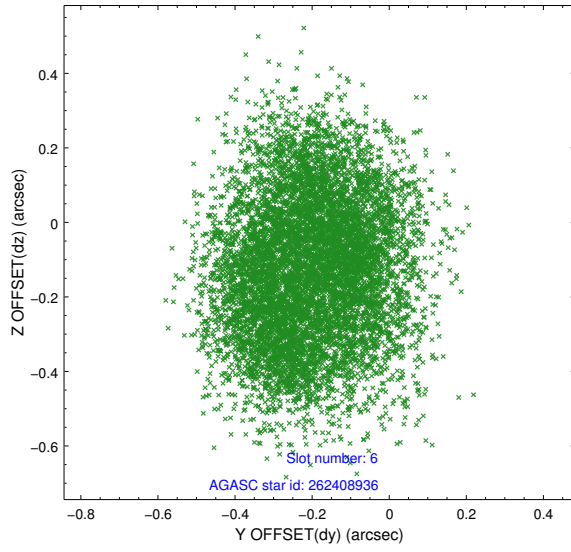
2.4.2 Slot 4



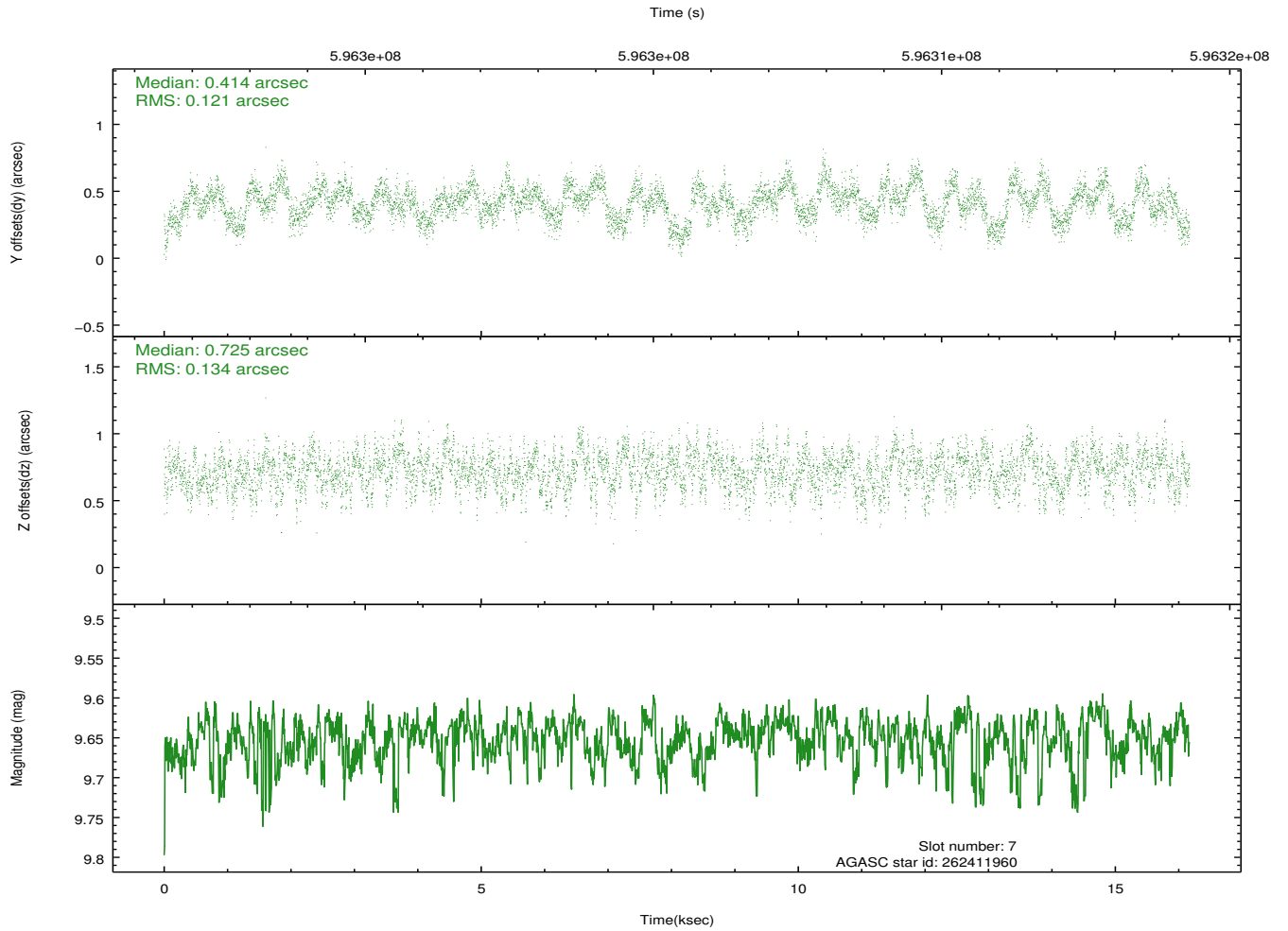
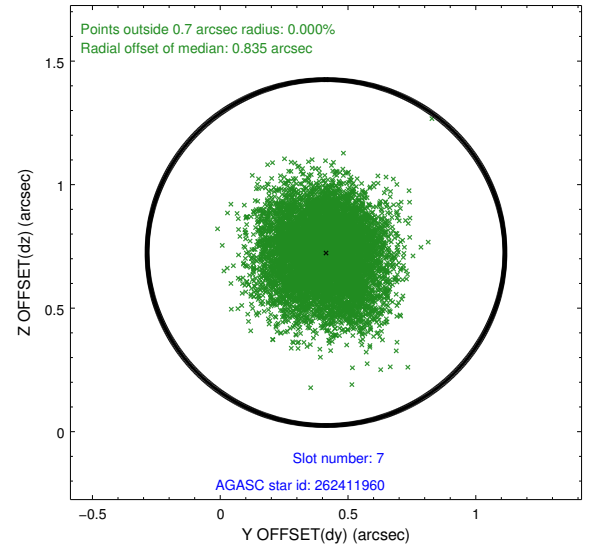
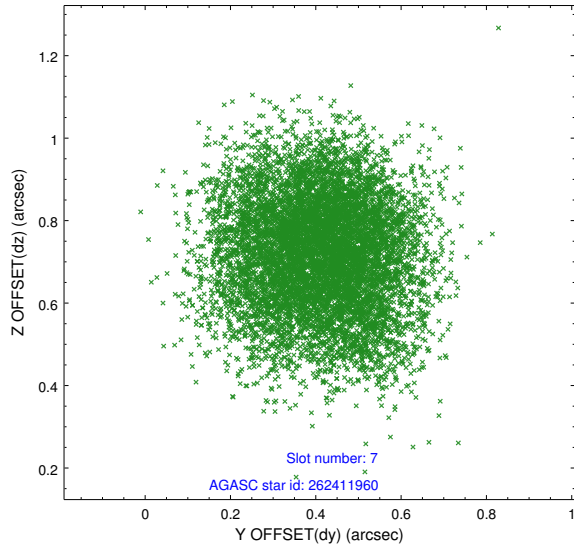
2.4.3 Slot 5



2.4.4 Slot 6

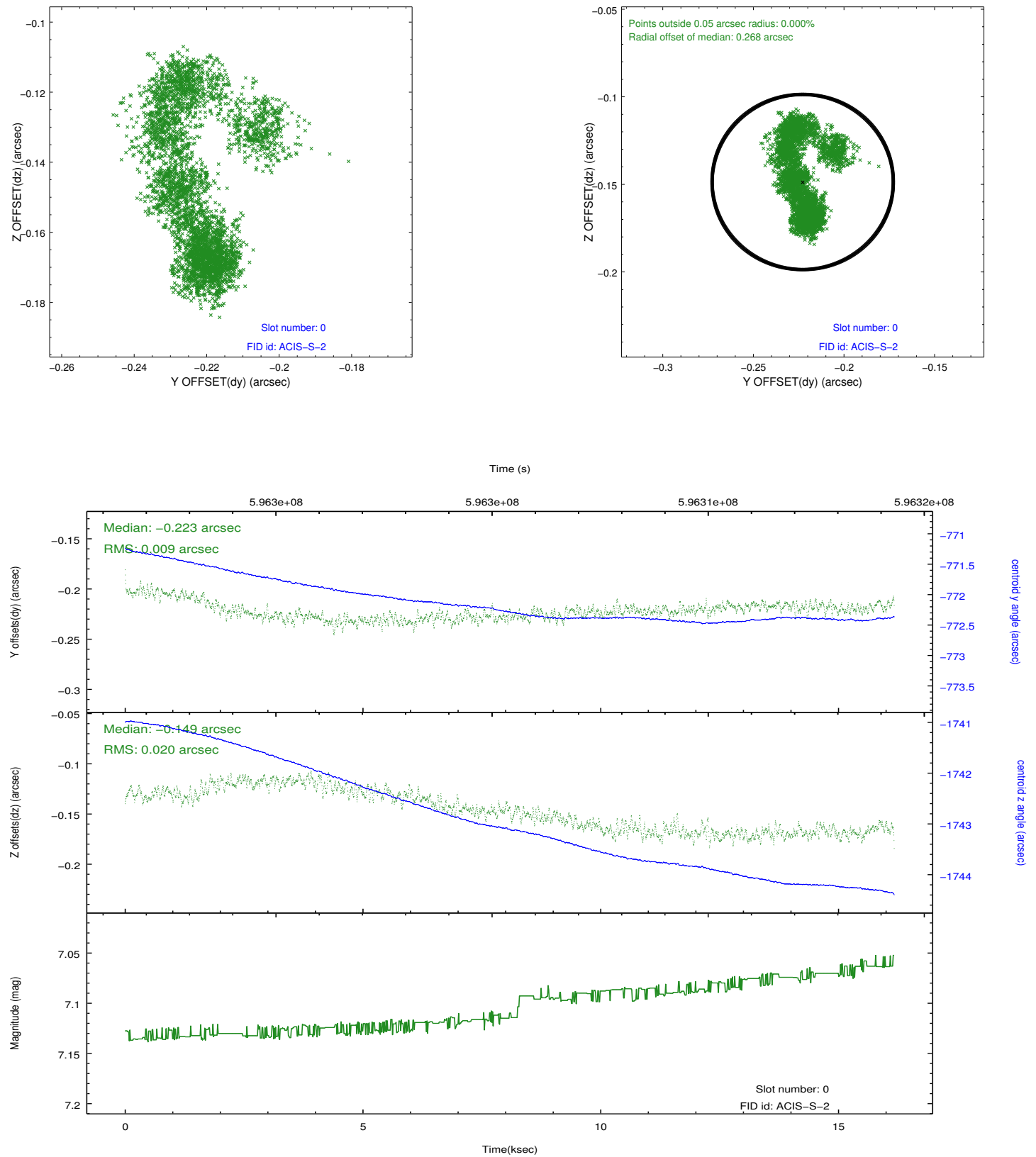


2.4.5 Slot 7

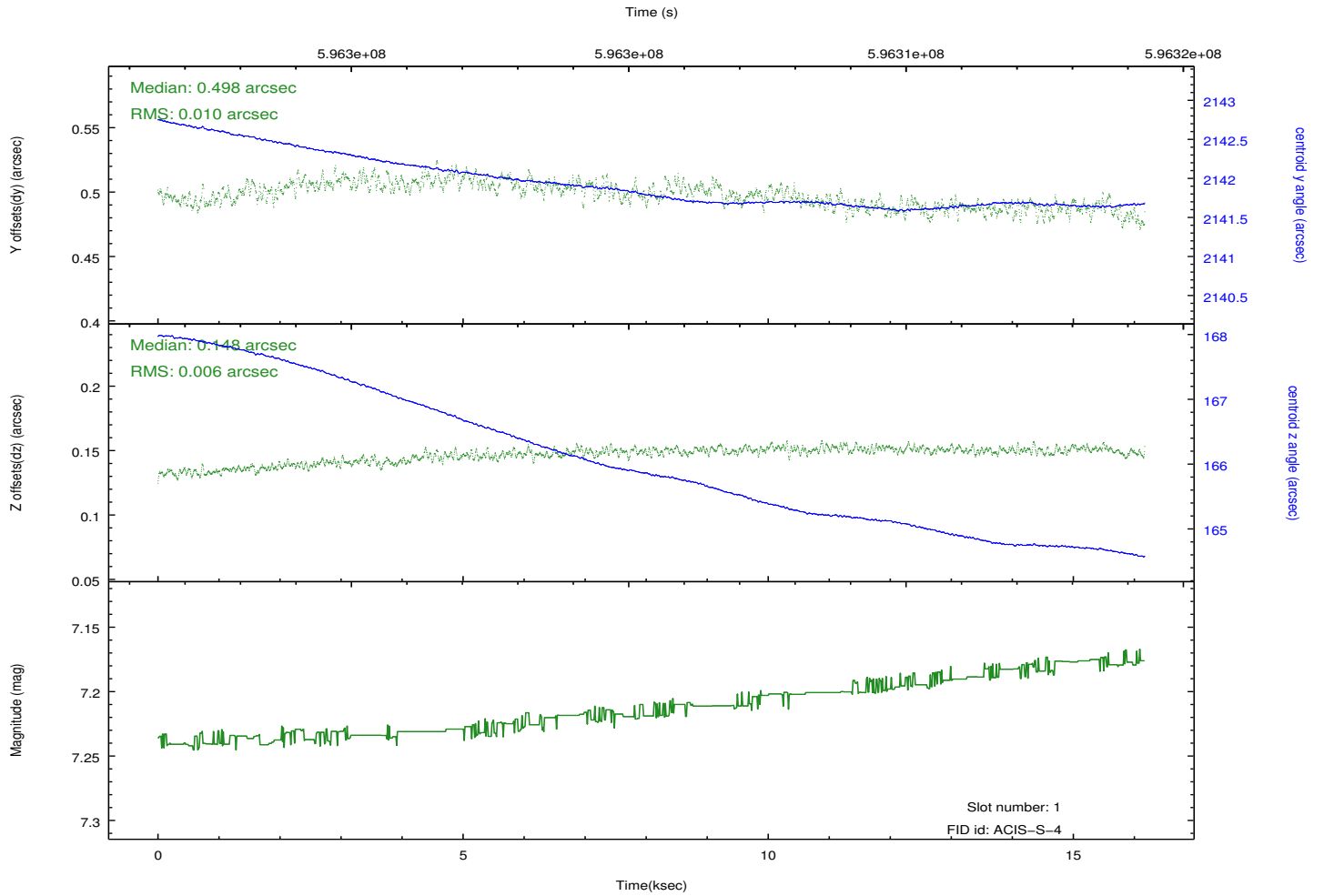
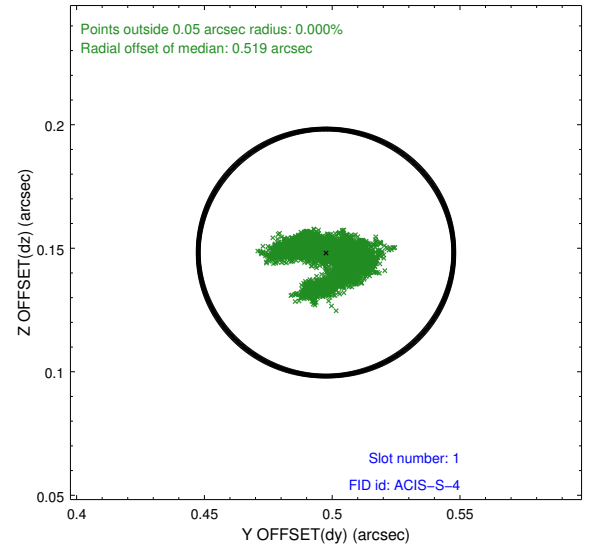
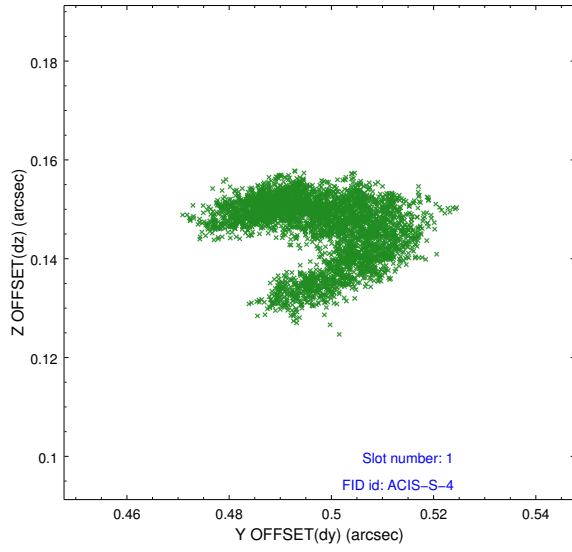


2.5 FID Slots

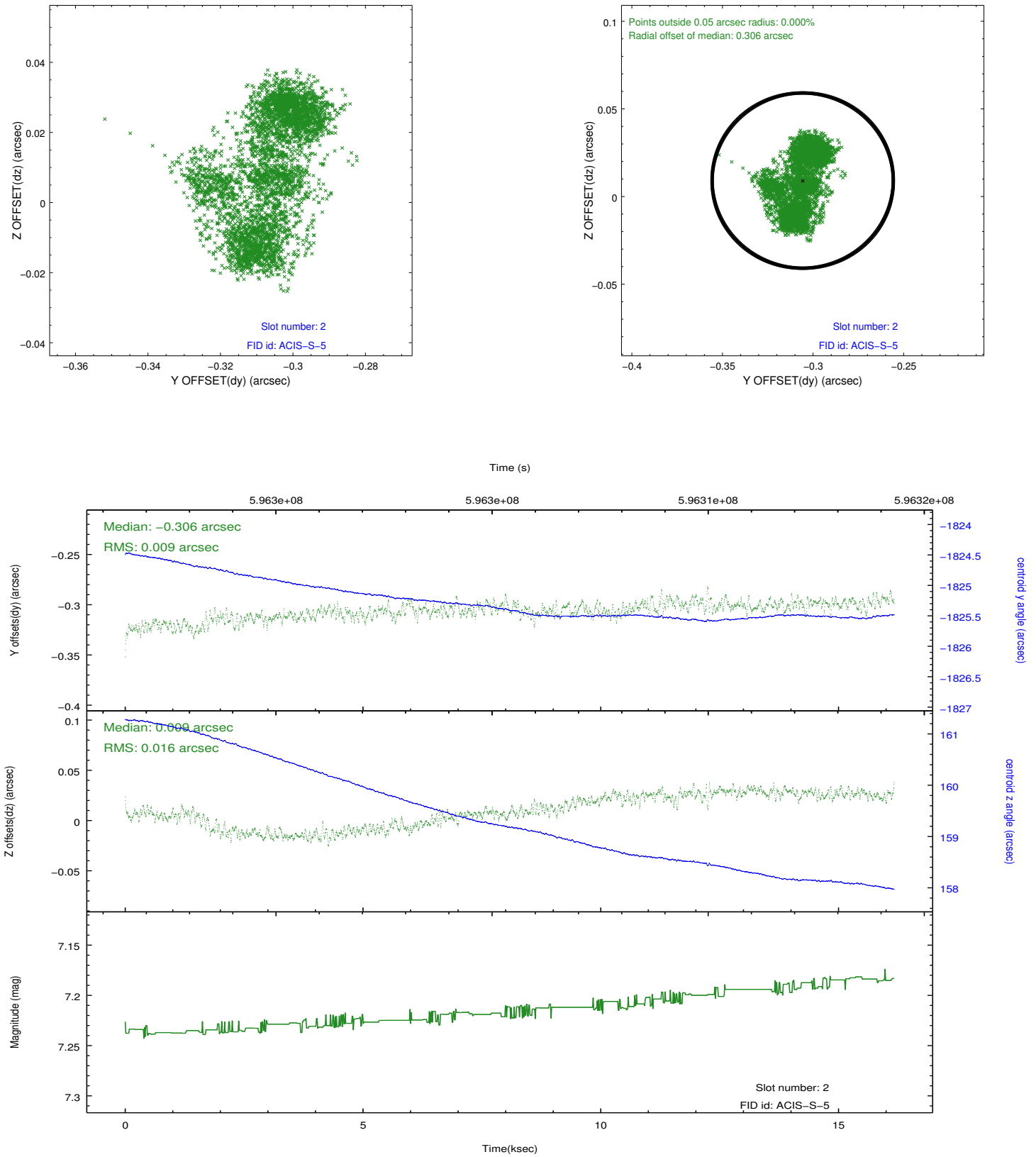
2.5.1 Slot 0



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)	2016.11.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.081410947442

A.2 Comments

Window preference met.