

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18865 - L2 Version 1
Chandra X-Ray Center

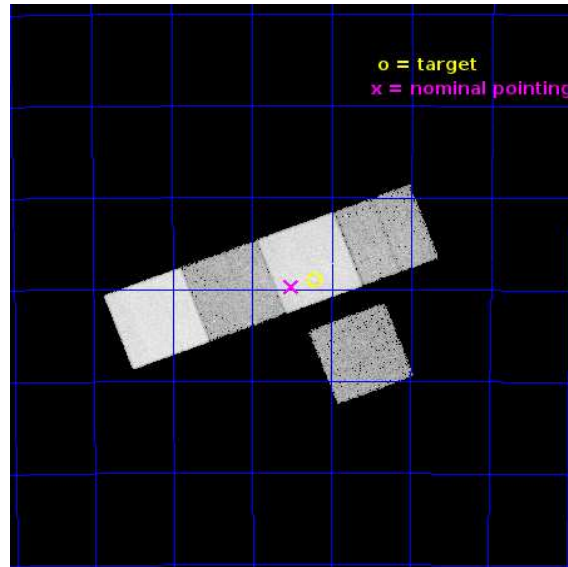
L2 Processing Date : Jun 4 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

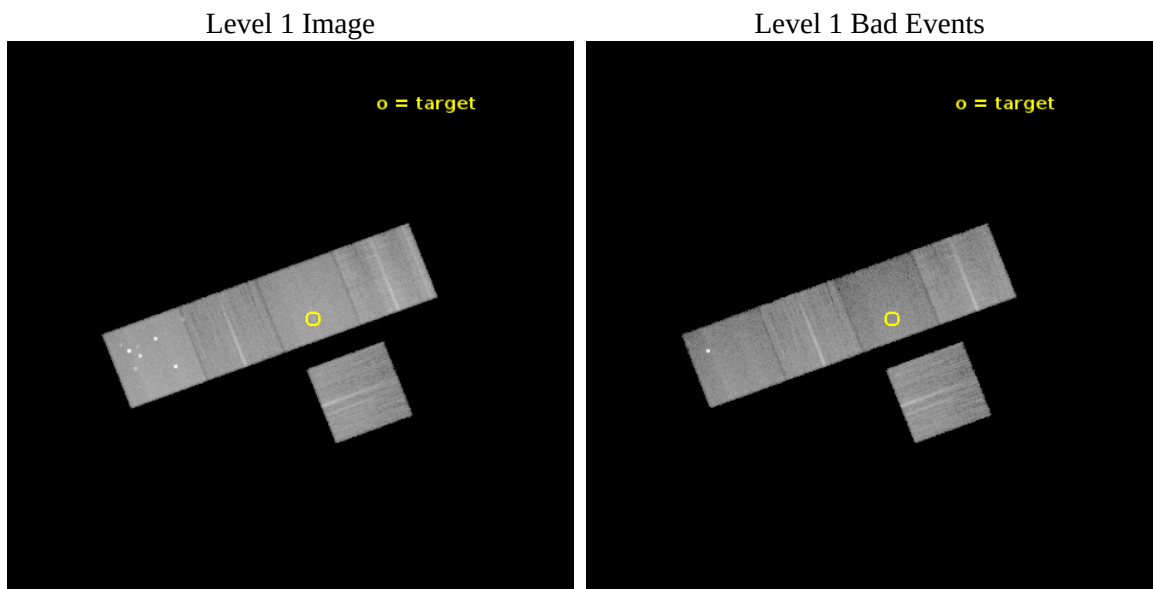
seq_num	502516	Sequence number
obs_id	18865	Observation id
title	Chandra Observation of the Composite SNR MSH 15-56	Proposal title
observer	Tea Temim	Principal investigator
object	MSH 15-56	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	238.053	Observer's specified target RA [deg]
dec_targ	-56.316	Observer's specified target Dec [deg]
ra_nom	238.12646459909	Nominal RA [deg]
dec_nom	-56.328936893957	Nominal Dec [deg]
roll_nom	339.21775758583	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25058.991935372	Sum of GTIs [s]
livetime	24731.577757575	Livetime [s]
ontime3	25049.445764303	Sum of GTIs [s]
ontime5	25058.950895429	Sum of GTIs [s]
ontime6	25049.486744761	Sum of GTIs [s]
ontime7	25058.991935372	Sum of GTIs [s]
ontime8	25055.686715007	Sum of GTIs [s]
l2events	258950	Number of level 2 events



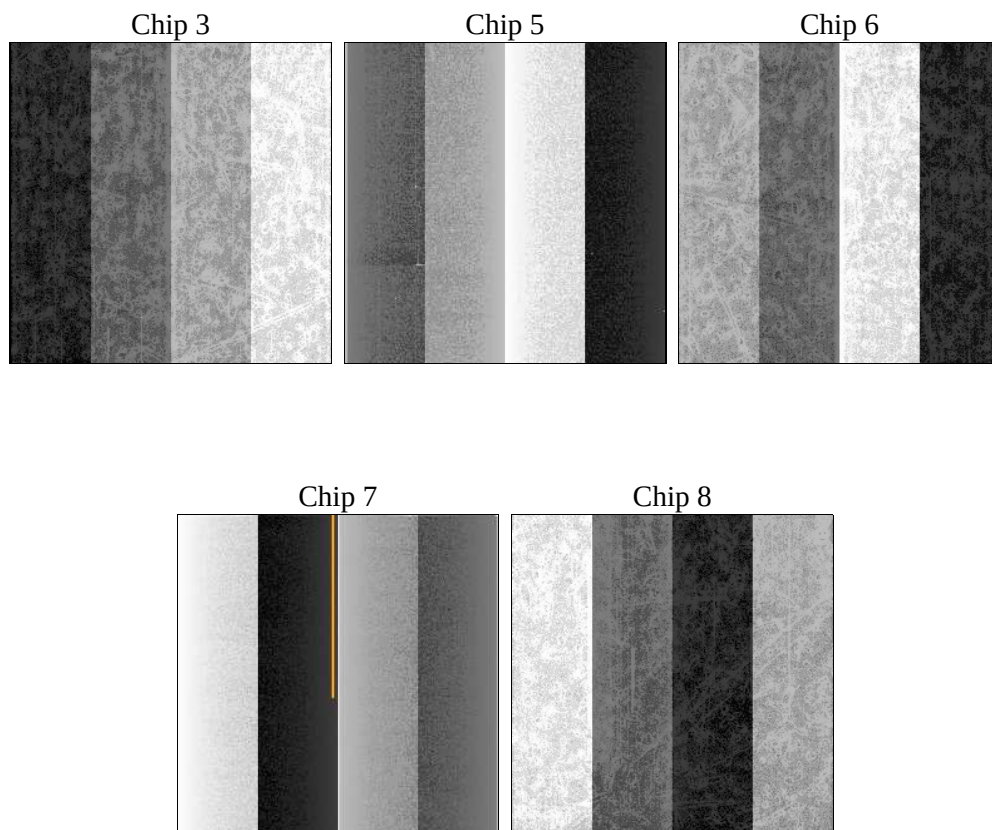
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	25058.991935372	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	25049.445764303	Sum of GTIs [s]
date	2016-06-05T00:41:13	Date and time of file creation	ontime5	25058.950895429	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25049.486744761	Sum of GTIs [s]
			ontime7	25058.991935372	Sum of GTIs [s]
			ontime8	25055.686715007	Sum of GTIs [s]
			l1events	952531	Number of level 1 events

2.1.4 Events

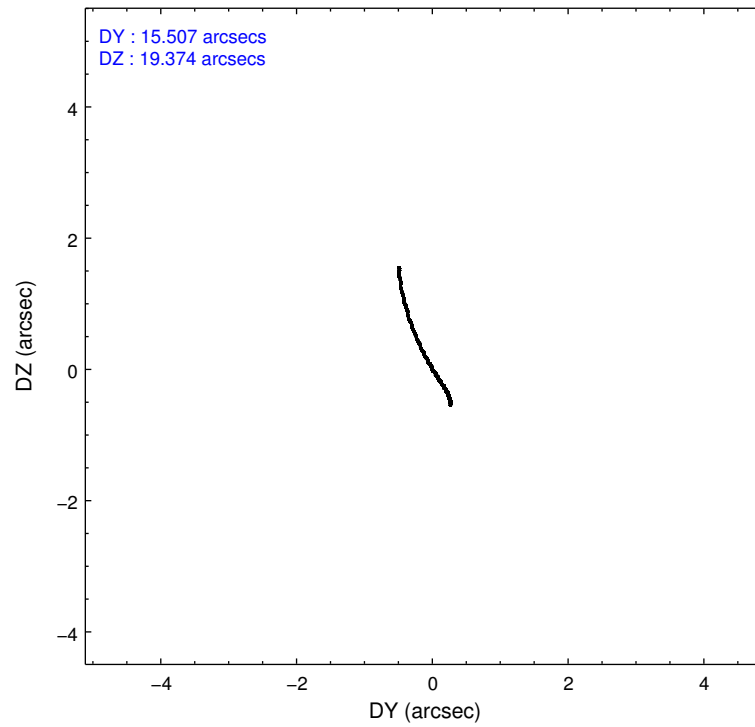
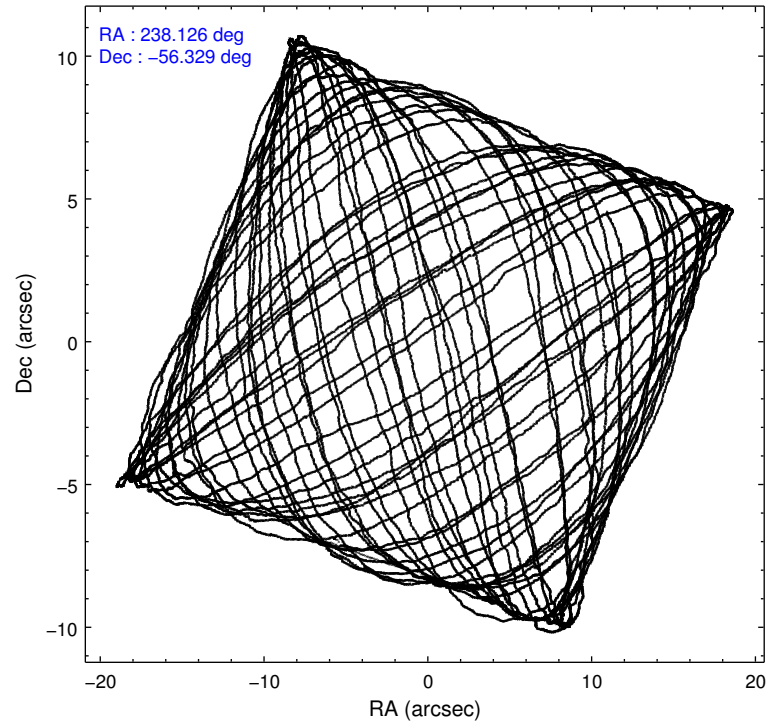
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	149646	250731	160791	186503	204860
rejected events	133485	116423	136278	92103	144174
rejected %	89%	46%	84%	49%	70%

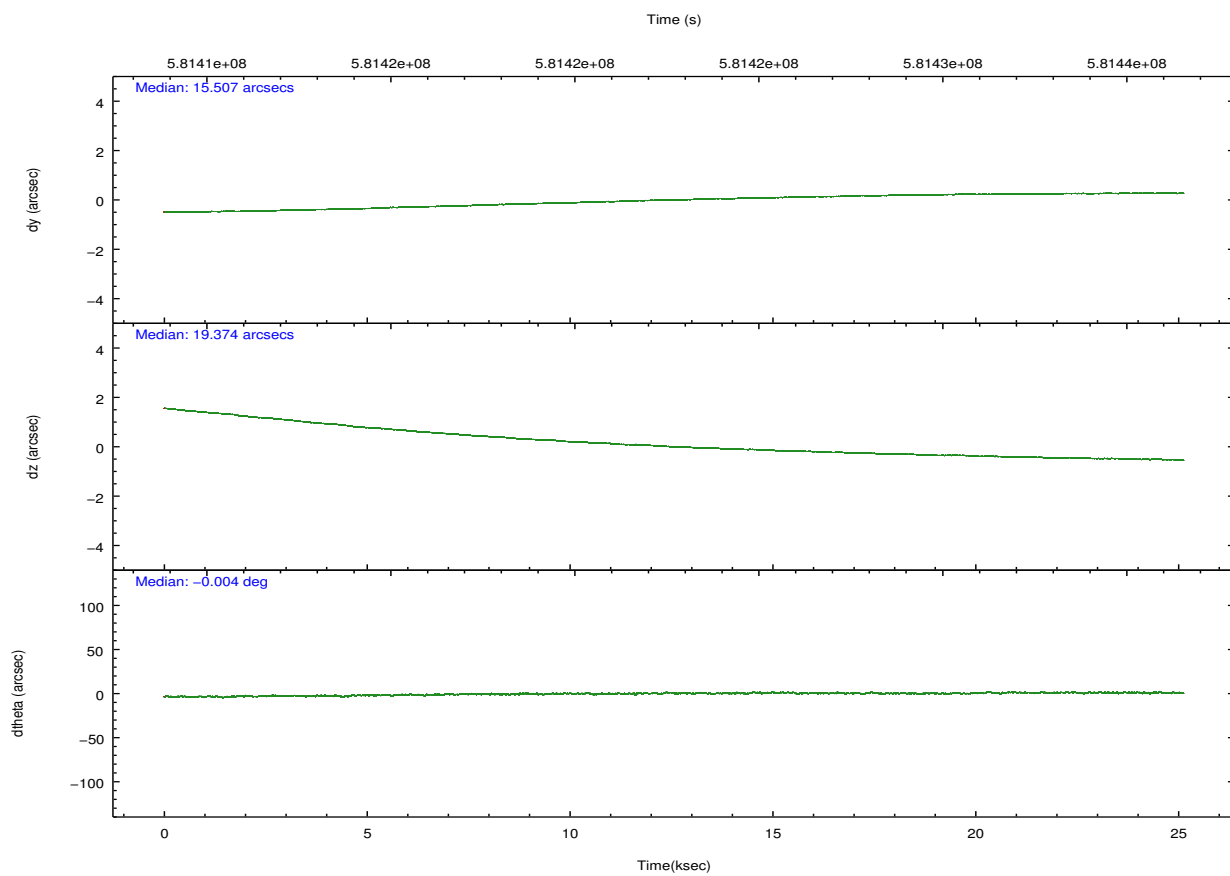
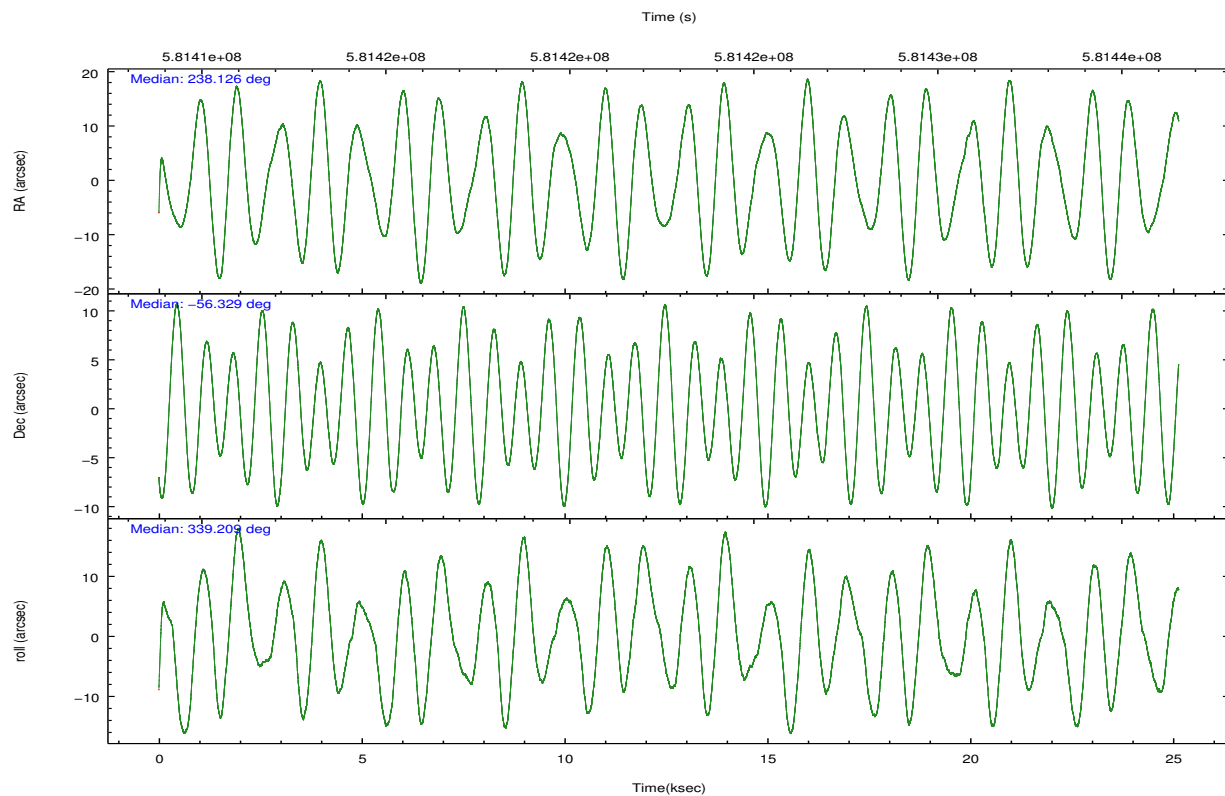
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6294	25882	12091	11453	19979
	4%	10%	7%	6%	9%
grade 1 events	85	576	84	269	191
	0%	0%	0%	0%	0%
grade 2 events	3433	39630	4760	21465	14276
	2%	15%	2%	11%	6%
grade 3 events	1726	4256	1884	8352	5825
	1%	1%	1%	4%	2%
grade 4 events	1642	4024	1828	8241	5359
	1%	1%	1%	4%	2%
grade 5 events	6302	16323	6447	17787	10075
	4%	6%	4%	9%	4%
grade 6 events	3068	60536	3956	44911	15247
	2%	24%	2%	24%	7%
grade 7 events	127096	99504	129741	74025	133908
	84%	39%	80%	39%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	238.077701	238.1264645990915	CCD I2 on	N	N
[deg] Pointing Dec	-56.333668	-56.32893689395712	CCD I3 on	O1	Y
[deg] Pointing Roll	339.020554	339.2177575858319	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-195.982523	-195.9783061800942	CCD S3 on	Y	Y
[mm] SIM translation stage offset	5.85	5.845783597086381	CCD S4 on	Y	Y
[s] Observation start time (MET)	581410235.184000	581408700.81539	CCD S5 on	N	N
Observation start date	2016-06-04T06:49:27	2016-06-04T06:25:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	581435235.184000	581436730.467	On-chip summing requested	N	N
Observation end date	2016-06-04T13:46:07	2016-06-04T14:12:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



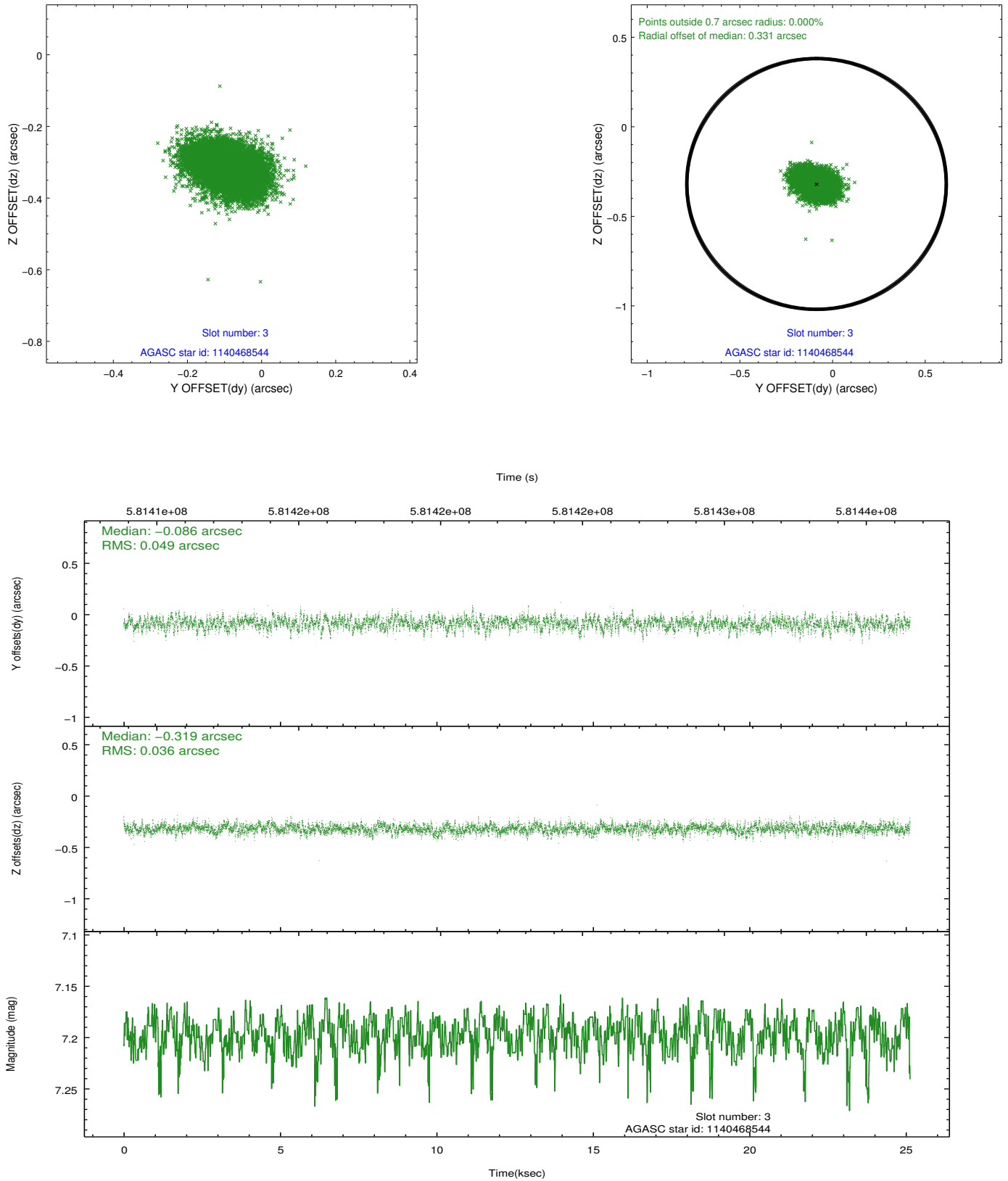


Slot Statistics

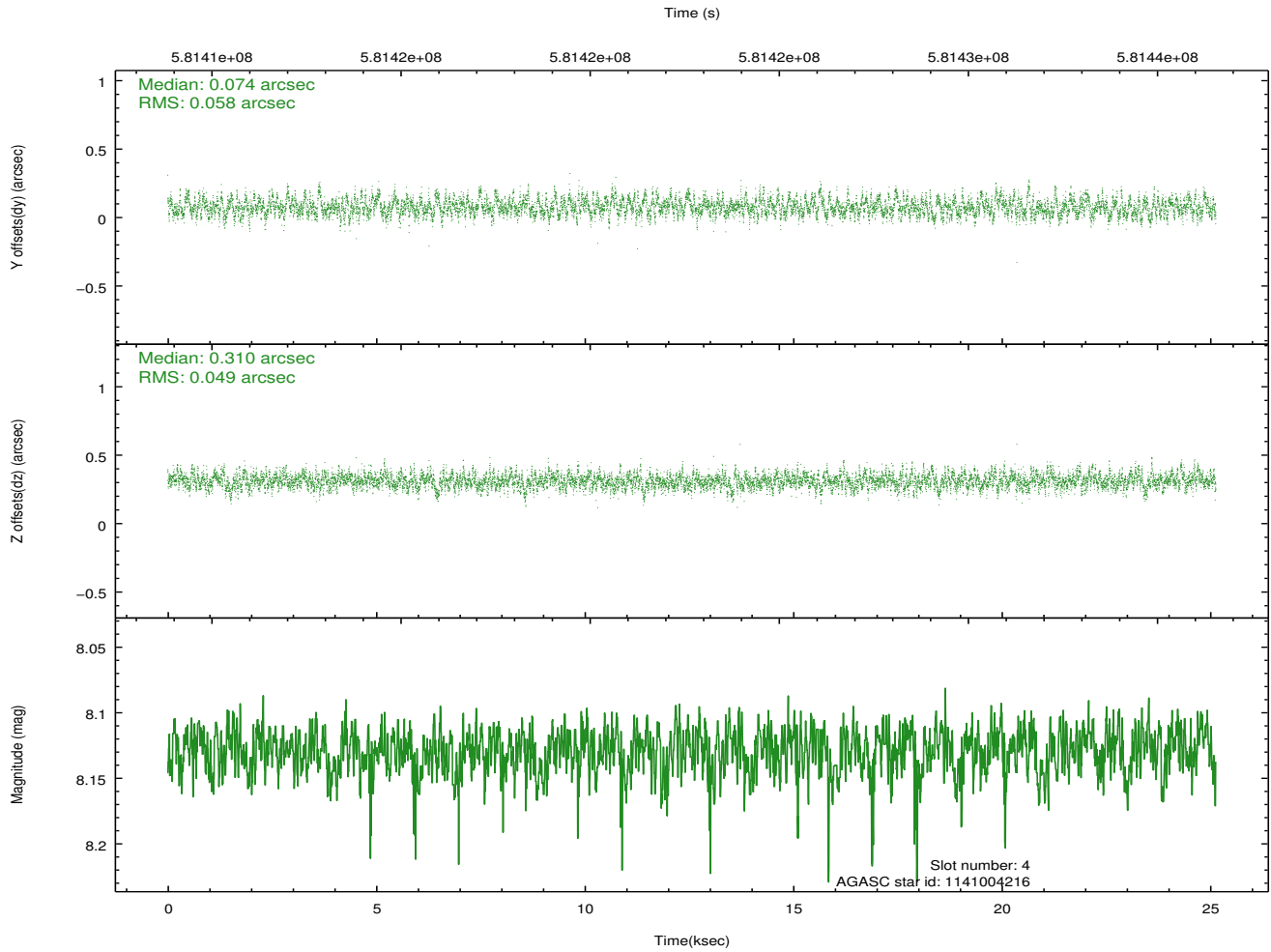
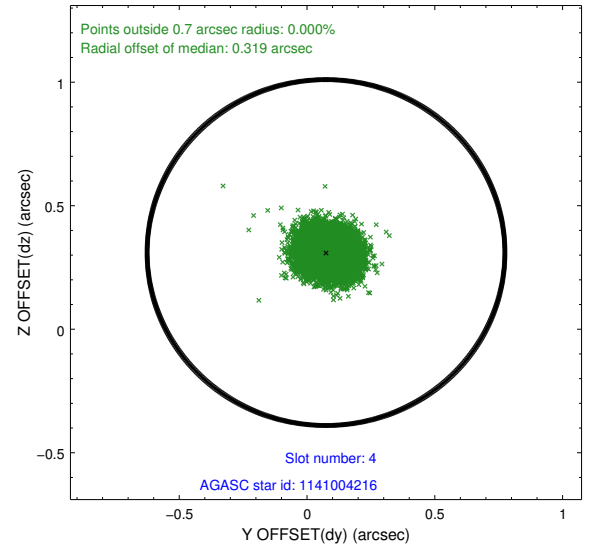
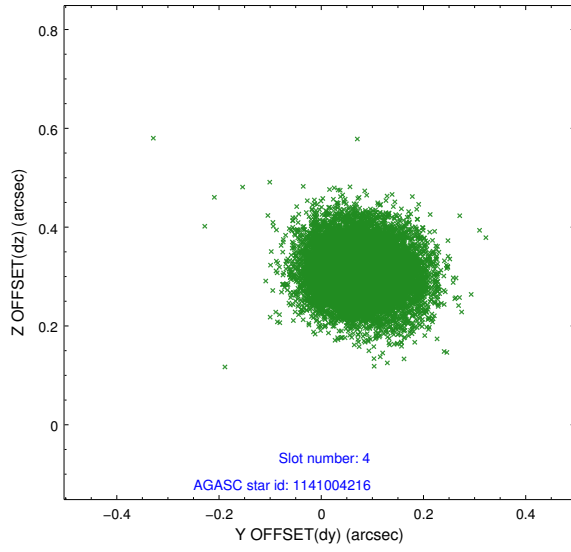
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	6131	-0.159	-0.021	0.017	0.028	0.000000	0.000000	-768.96	-1620.71
1	FID		ACIS-S-4	7.23	6130	0.348	0.083	0.017	0.029	0.000000	0.000000	2144.76	287.79
2	FID		ACIS-S-5	7.26	6130	-0.219	-0.054	0.008	0.013	0.000000	0.000000	-1821.72	281.44
3	GUIDE	used	1140468544	7.20	12258	-0.086	-0.319	0.062	0.110	237.524626	-55.920475	-1572.65	985.09
4	GUIDE	used	1141004216	8.13	12260	0.074	0.310	0.081	0.130	237.245988	-56.471011	-1363.31	-1062.93
5	GUIDE	used	1141010952	7.98	12259	0.056	-0.032	0.094	0.158	238.848370	-56.997192	2269.86	-1697.69
6	GUIDE	used	1140467912	8.82	12251	-0.012	0.070	0.109	0.219	237.351144	-55.585312	-2342.17	1978.70
7	GUIDE	used	1140999568	8.35	12256	-0.022	-0.038	0.107	0.192	238.959271	-56.938917	2400.67	-1424.16

2.4 Star Slots

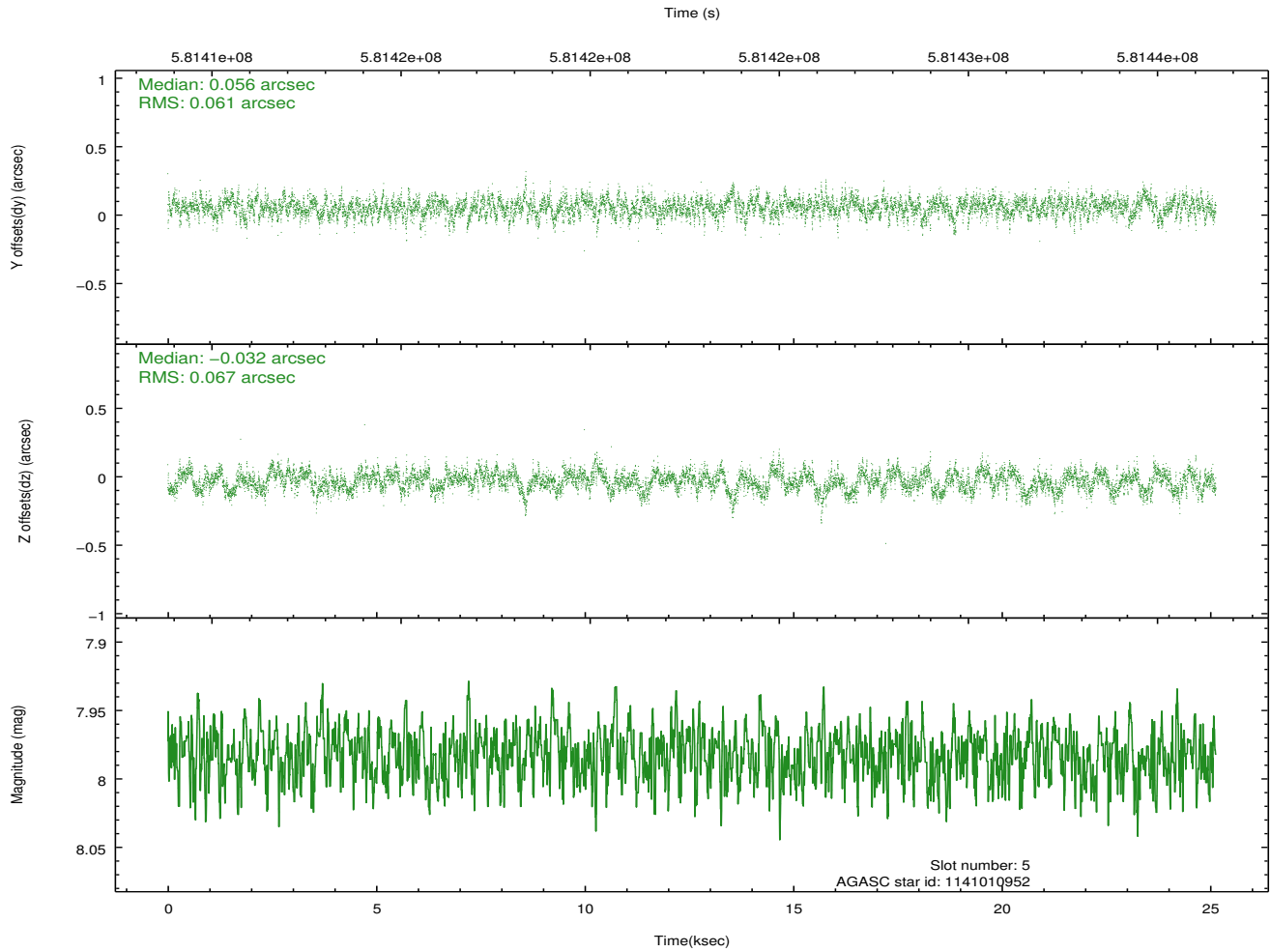
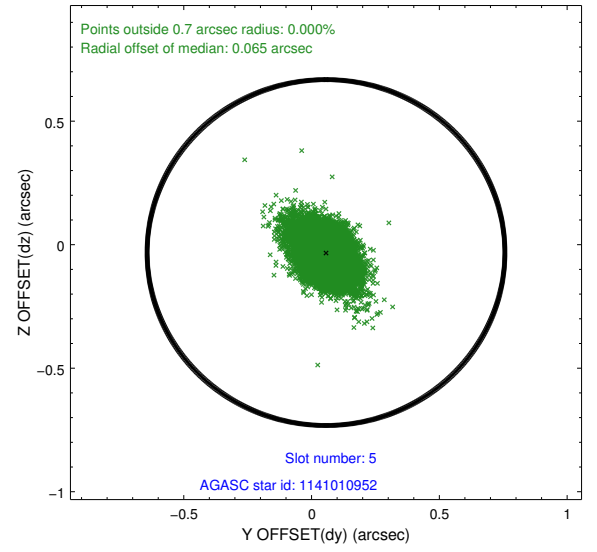
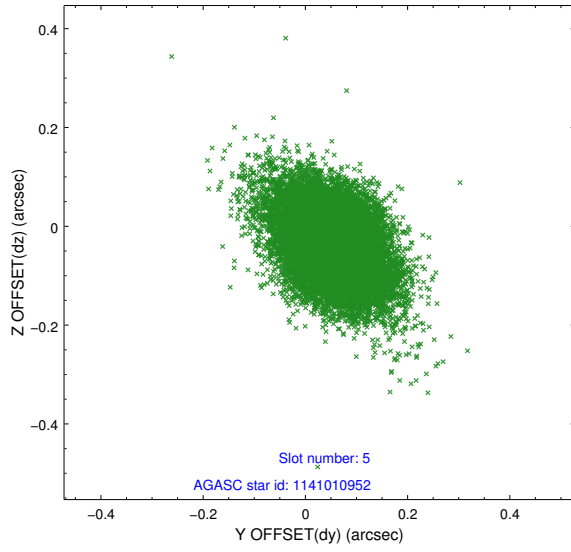
2.4.1 Slot 3



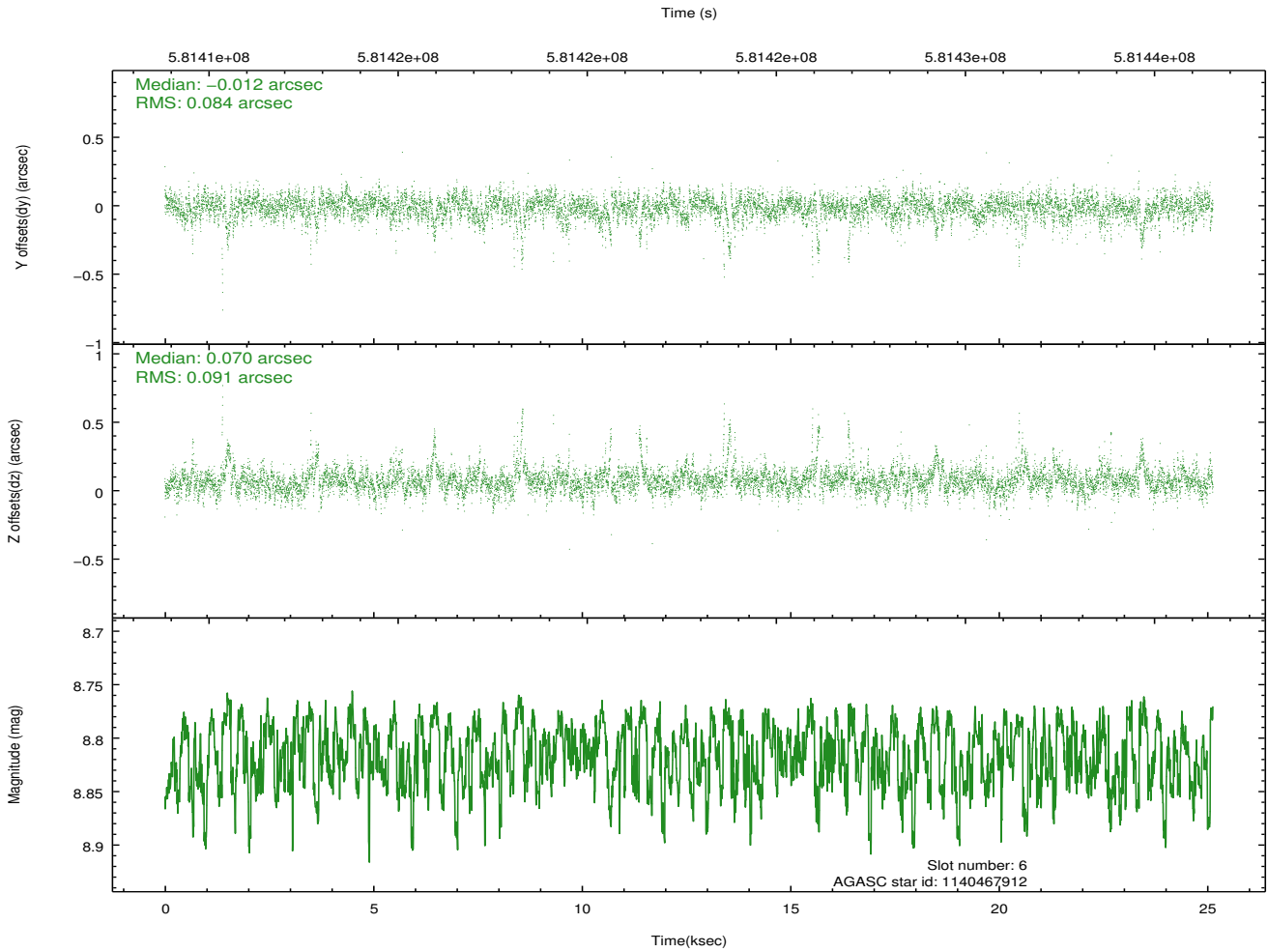
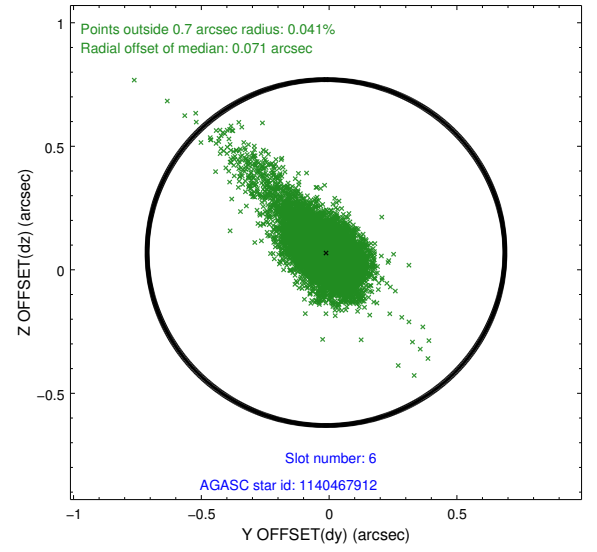
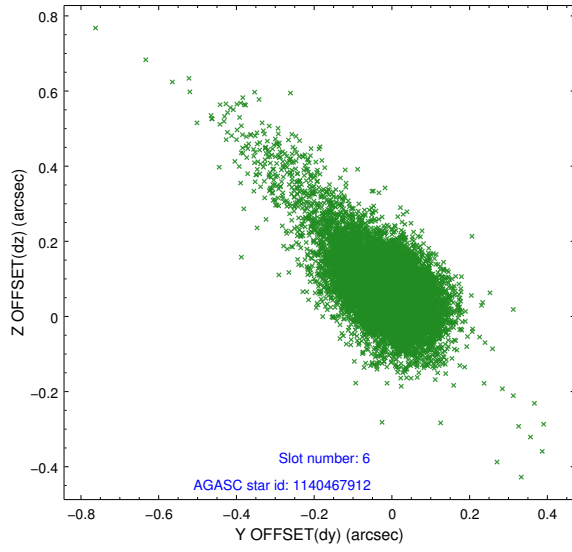
2.4.2 Slot 4



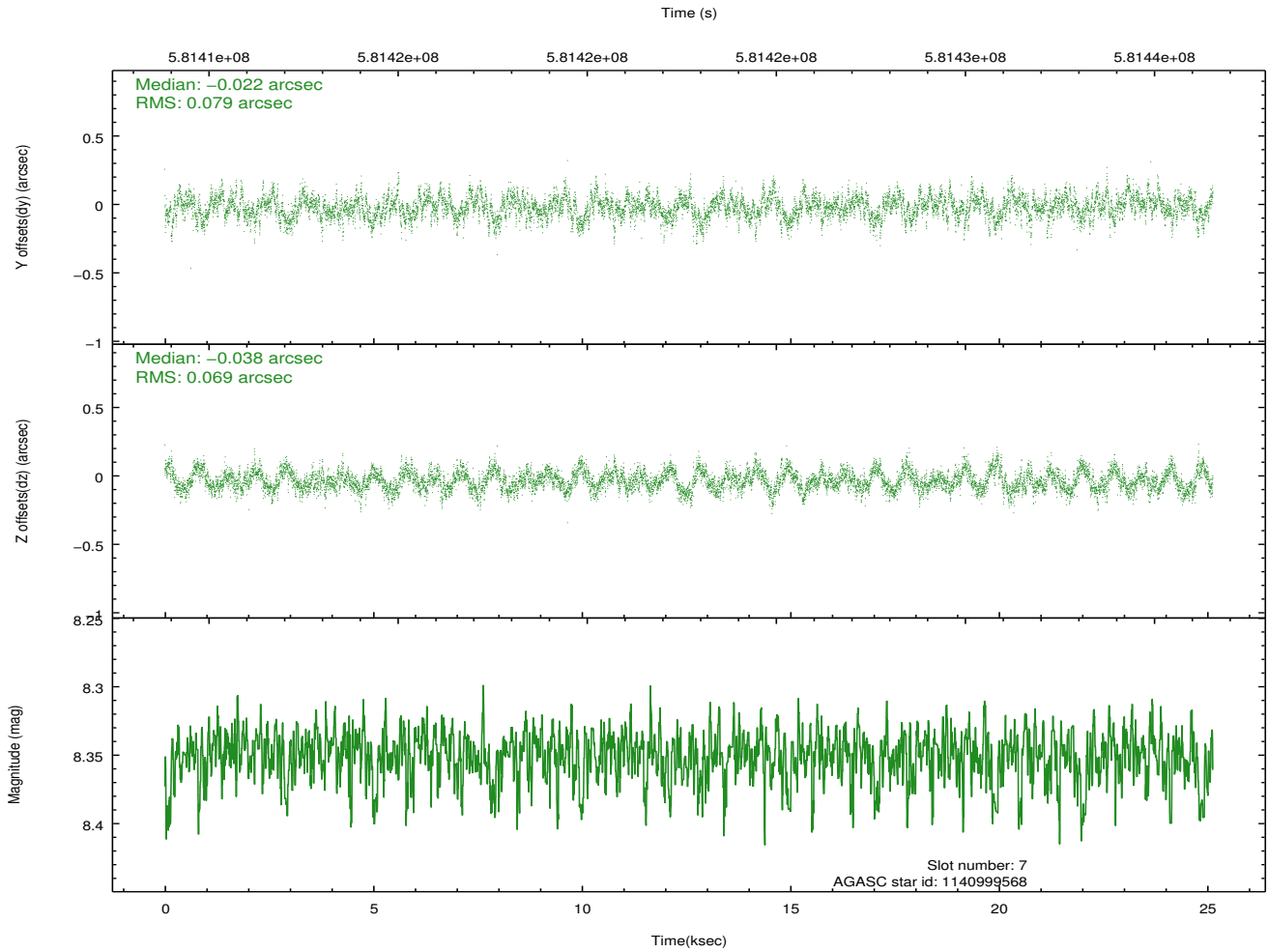
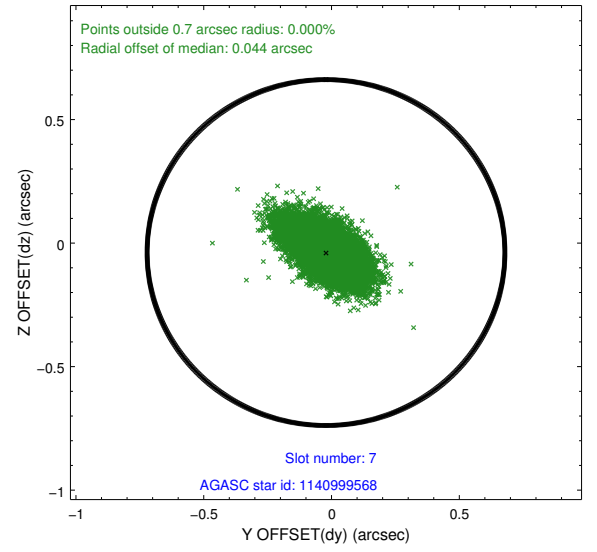
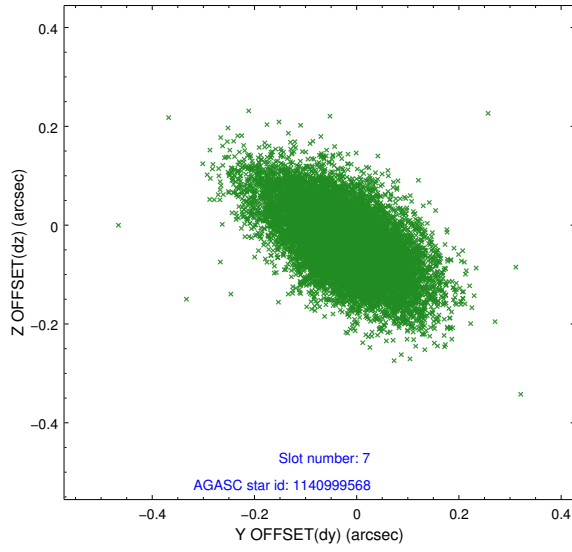
2.4.3 Slot 5



2.4.4 Slot 6

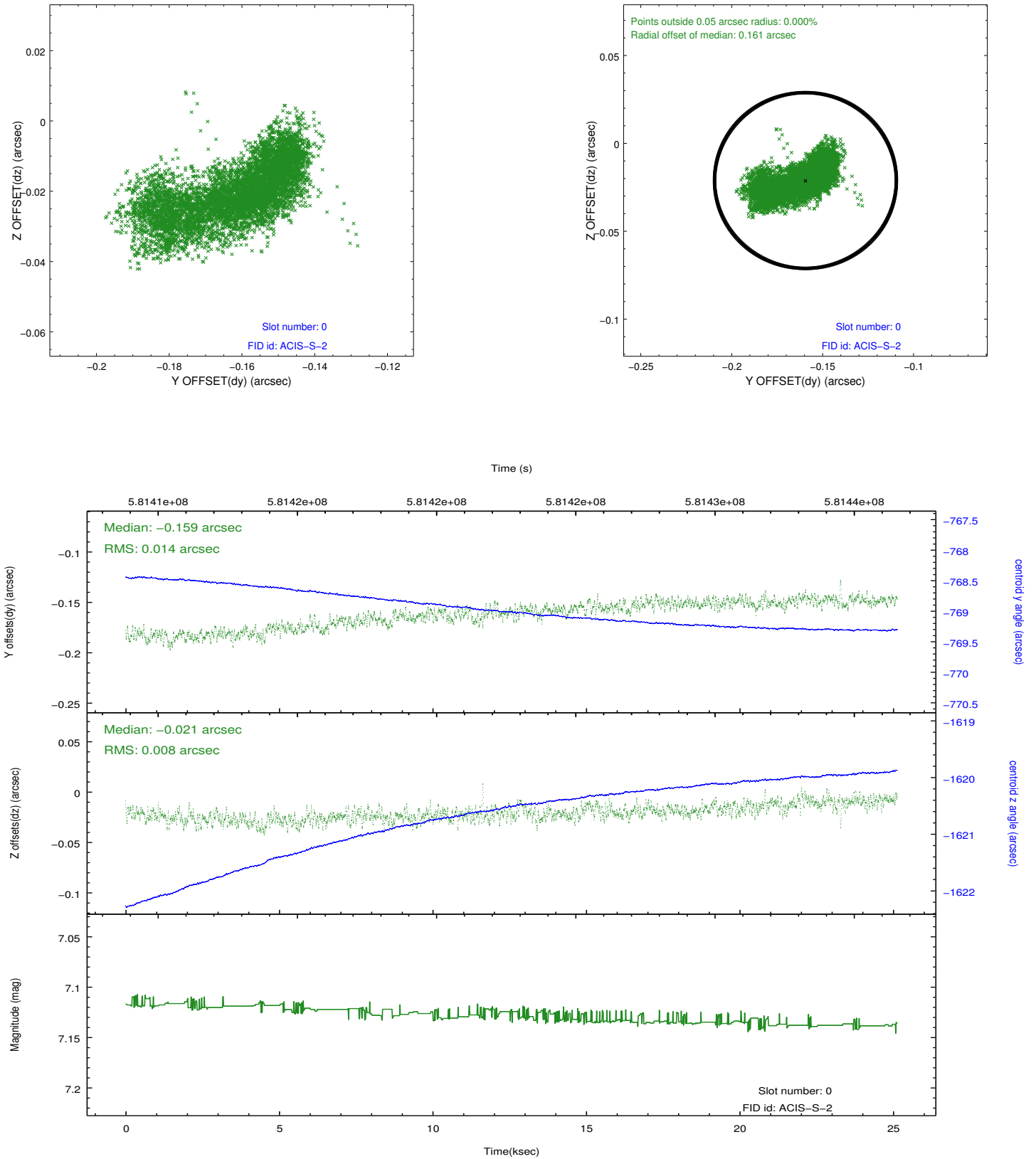


2.4.5 Slot 7

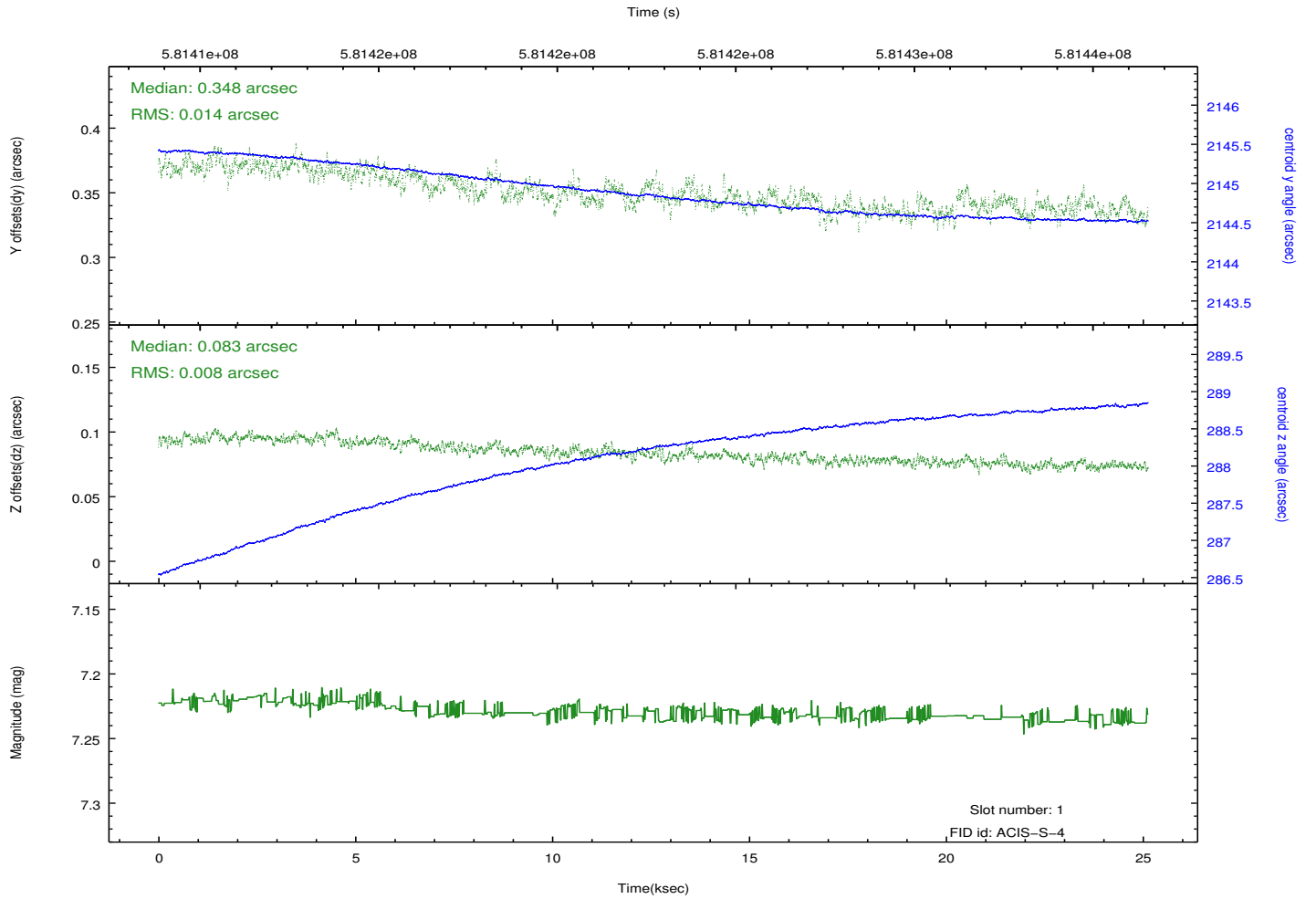
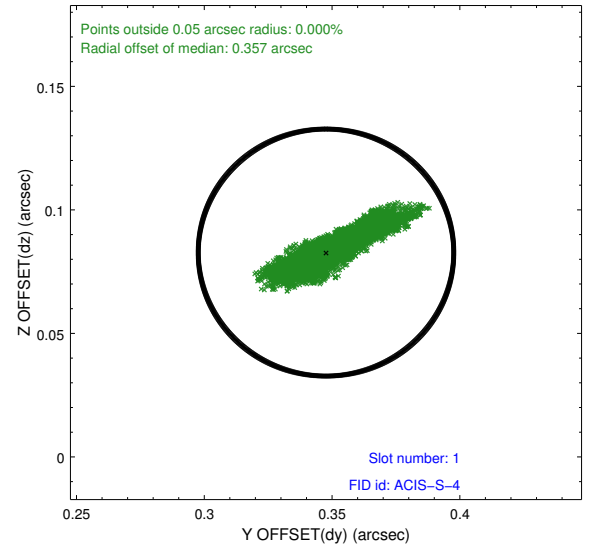
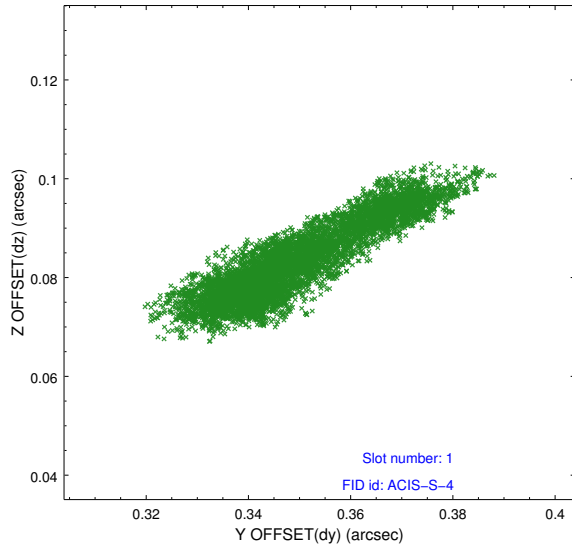


2.5 FID Slots

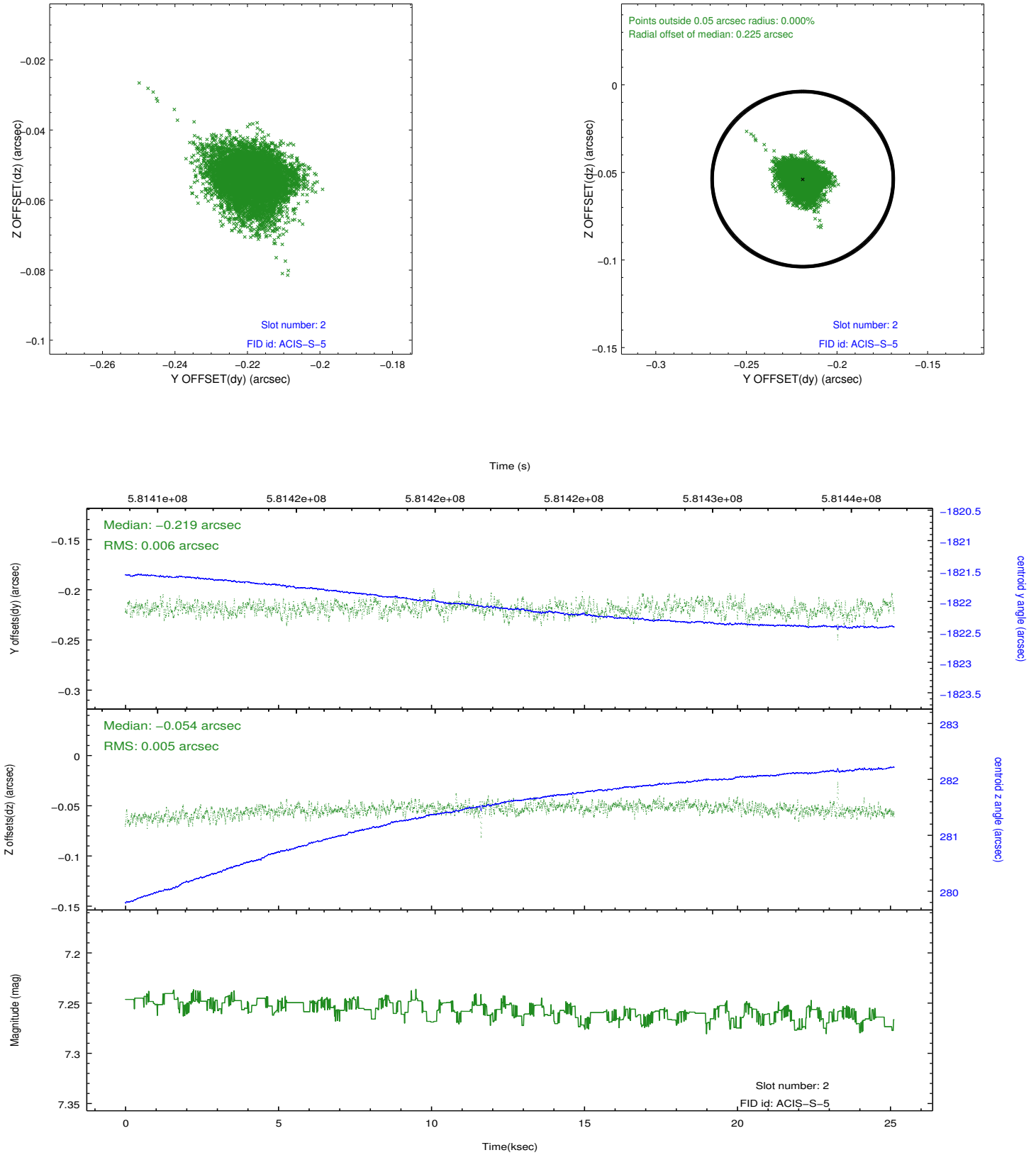
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.058991935372

A.2 Comments

Roll preference met.