

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 16988 - L2 Version 1
Chandra X-Ray Center

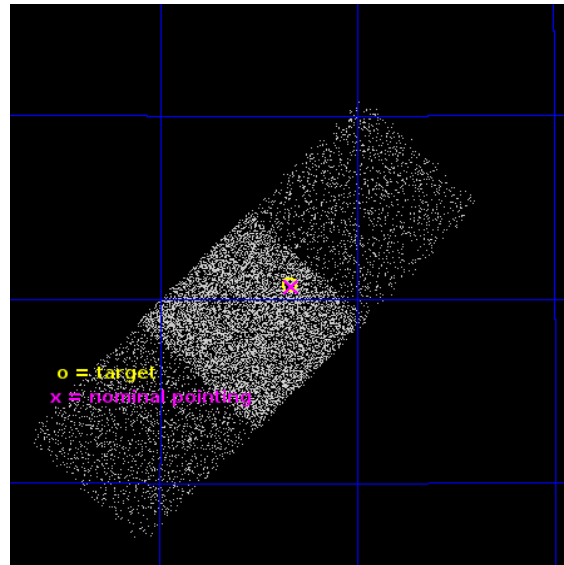
L2 Processing Date : Feb 13 2016

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1 Front

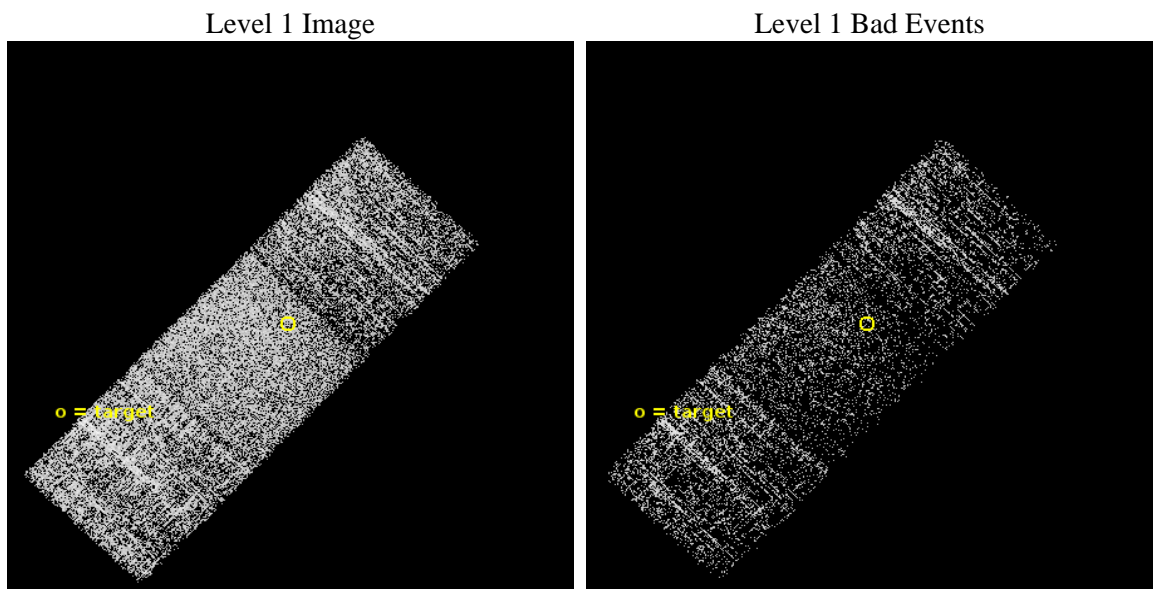
seq_num	601181	Sequence number
obs_id	16988	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC3782	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.83625	Observer's specified target RA [deg]
dec_targ	46.513389	Observer's specified target Dec [deg]
ra_nom	174.8336712311	Nominal RA [deg]
dec_nom	46.511692405866	Nominal Dec [deg]
roll_nom	133.7382368817	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2974.8818980455	Sum of GTIs [s]
livetime	2936.0128759714	Livetime [s]
ontime6	2974.8408581018	Sum of GTIs [s]
ontime7	2974.8818980455	Sum of GTIs [s]
ontime8	2974.7998180389	Sum of GTIs [s]
l2events	13545	Number of level 2 events



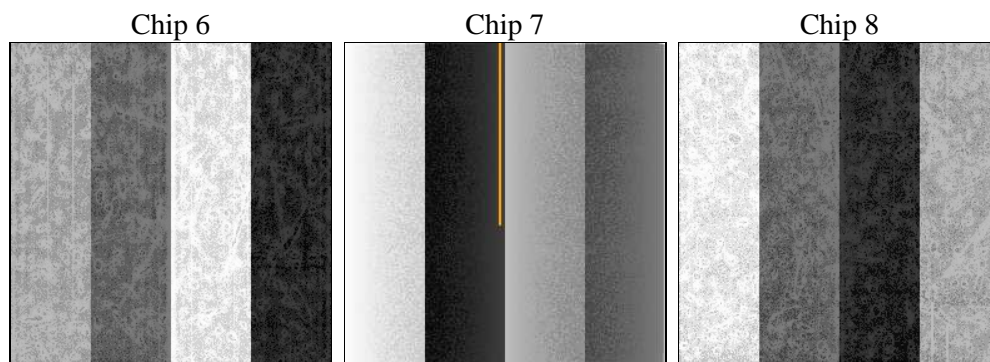
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2900.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	2974.8818980455	Sum of GTIs [s]
caldsver	4.7.0	 	ontime6	2974.8408581018	Sum of GTIs [s]
date	2016-02-13T05:10:37	Date and time of file creation	ontime7	2974.8818980455	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	2974.7998180389	Sum of GTIs [s]
			l1events	64409	Number of level 1 events

2.1.4 Events

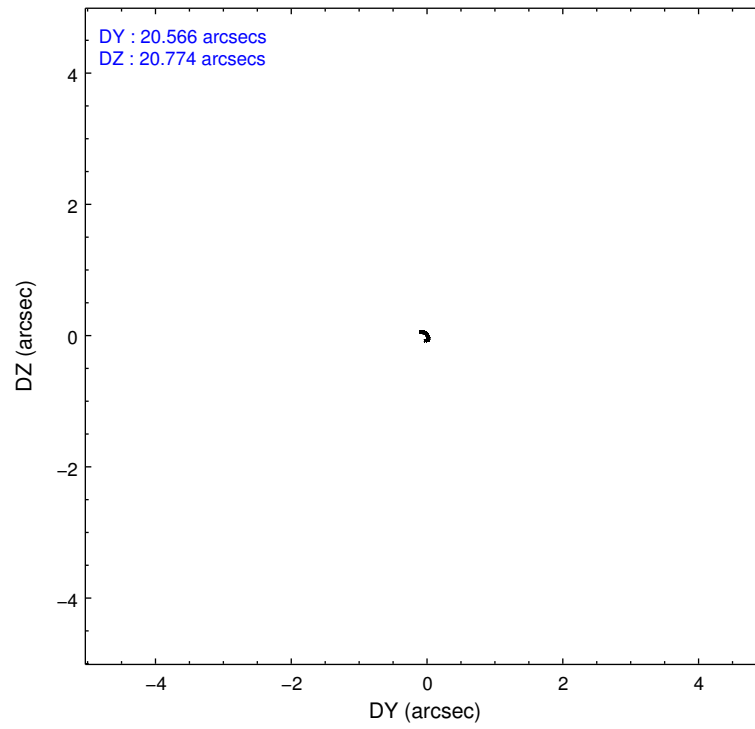
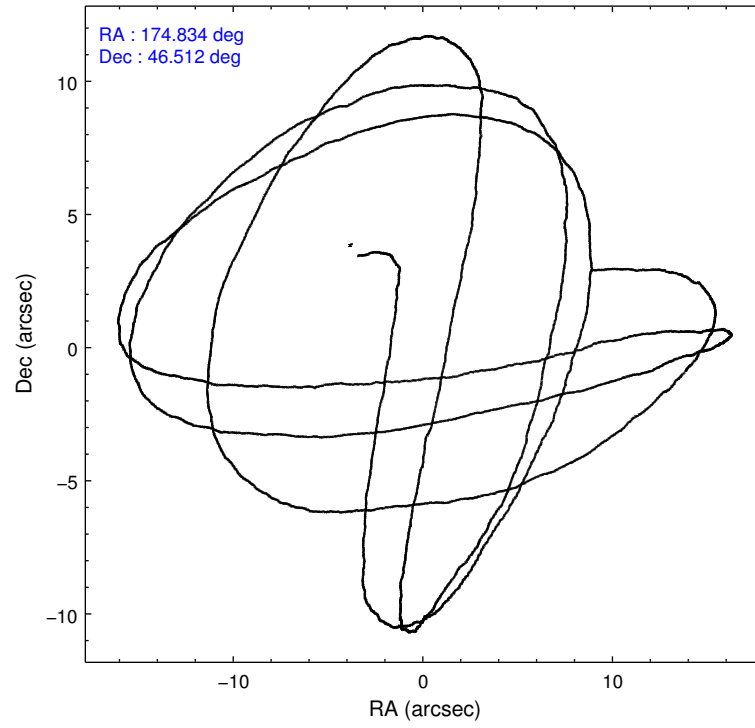
	ccd 6	ccd 7	ccd 8
level 1 events	17194	23223	23992
rejected events	15229	13144	17974
rejected %	88%	56%	74%

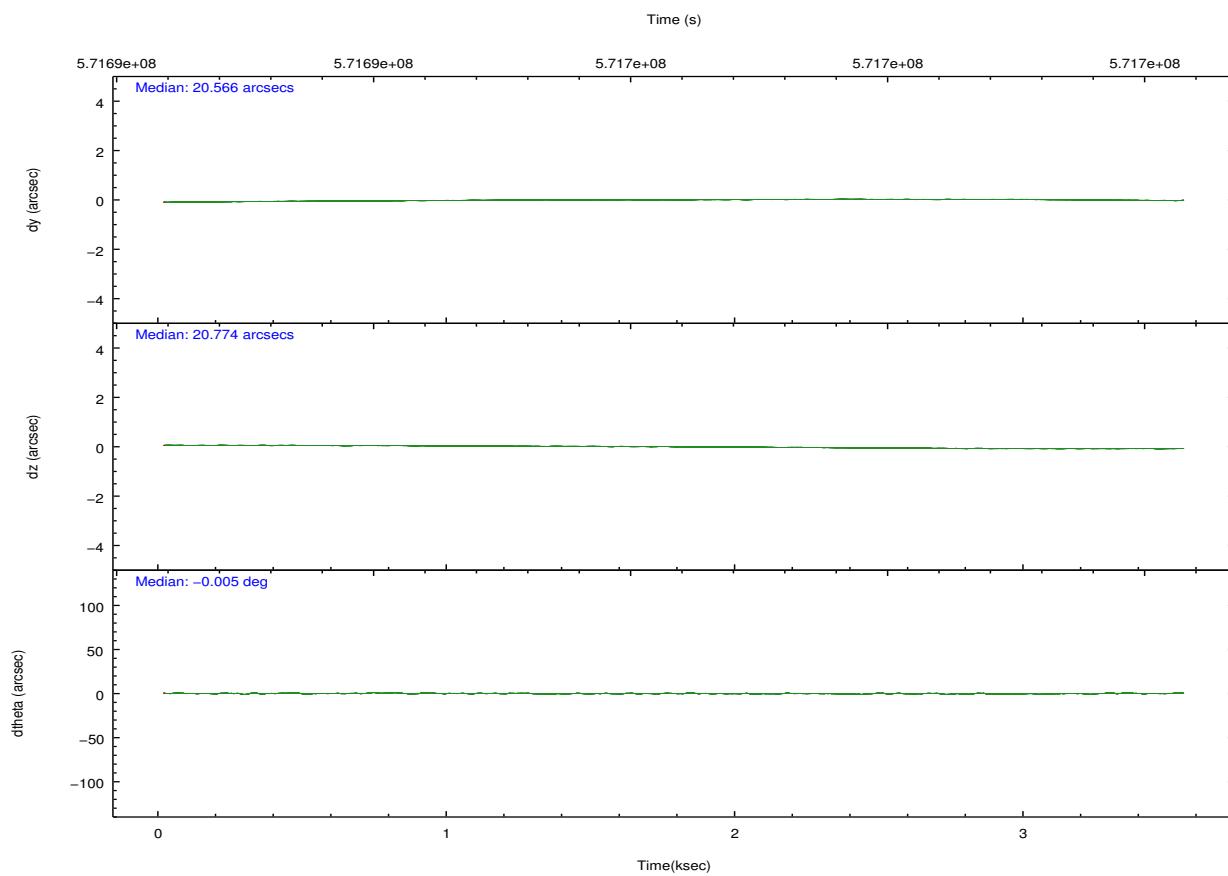
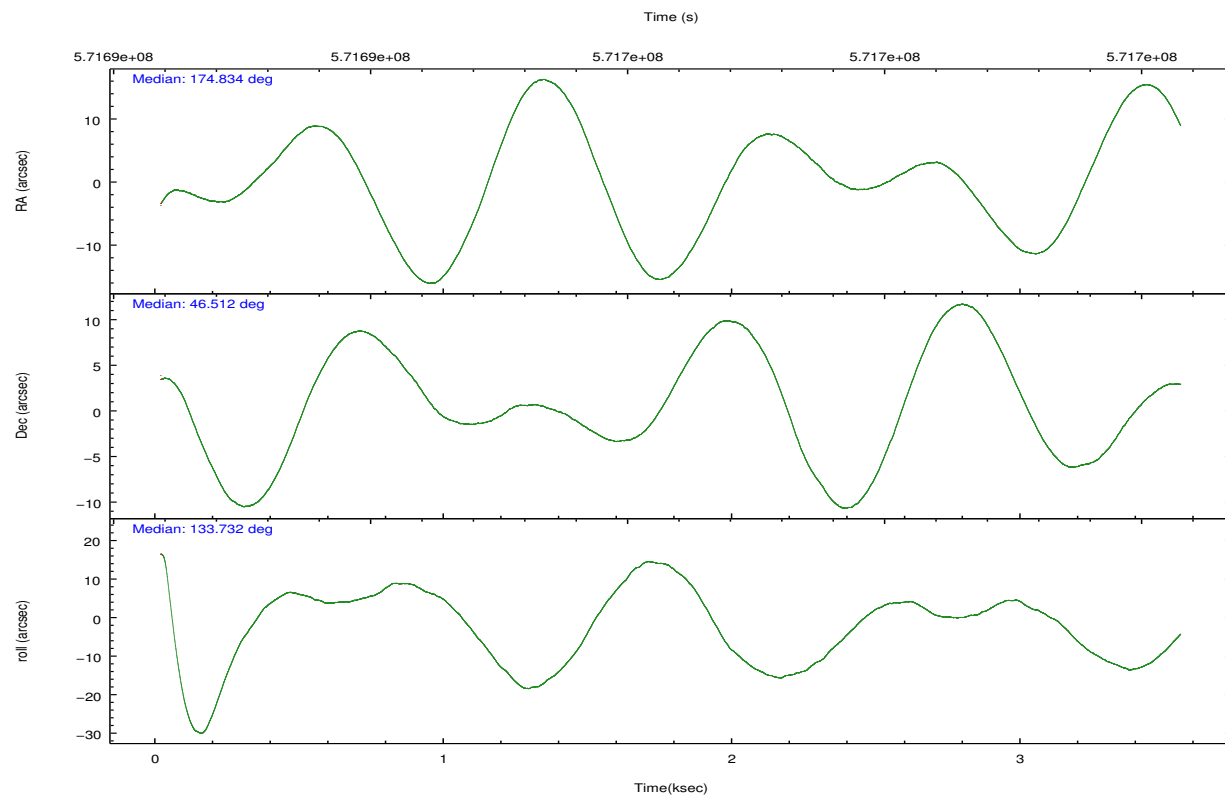
	ccd 6	ccd 7	ccd 8
grade 0 events	646	845	1767
	3%	3%	7%
grade 1 events	8	23	23
	0%	0%	0%
grade 2 events	499	2150	1472
	2%	9%	6%
grade 3 events	174	804	609
	1%	3%	2%
grade 4 events	164	732	556
	0%	3%	2%
grade 5 events	759	2242	1255
	4%	9%	5%
grade 6 events	487	5560	1616
	2%	23%	6%
grade 7 events	14457	10867	16694
	84%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	174.871989	174.8336712311024	CCD I2 on	O2	N
[deg] Pointing Dec	46.504522	46.51169240586601	CCD I3 on	O1	N
[deg] Pointing Roll	133.553650	133.7382368816974	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	571694034.184000	571692824.74994	CCD S5 on	N	N
Observation start date	2016-02-12T19:52:46	2016-02-12T19:33:44	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	571696934.184000	571697463.3877	On-chip summing requested	N	N
Observation end date	2016-02-12T20:41:06	2016-02-12T20:51:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



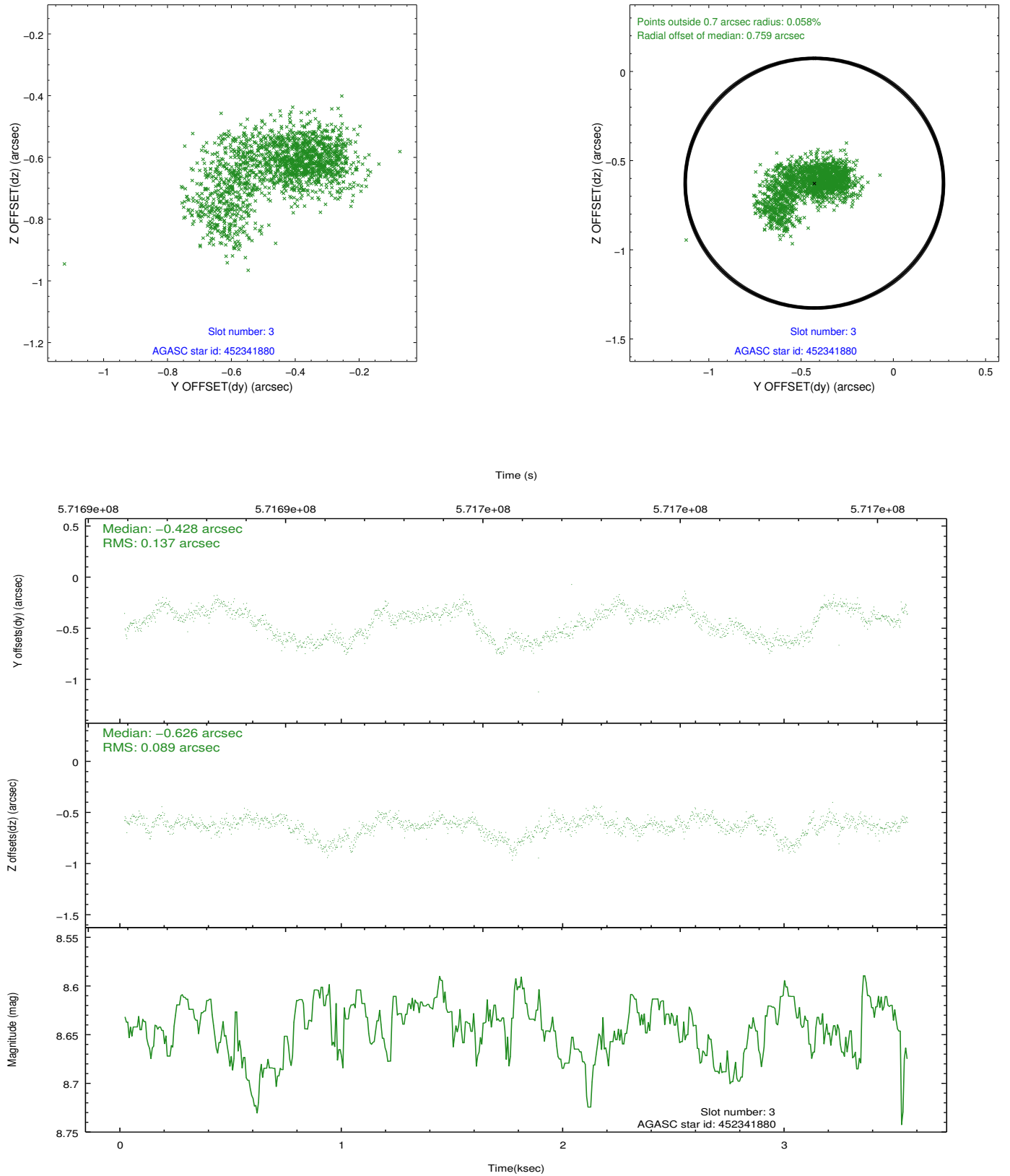


Slot Statistics

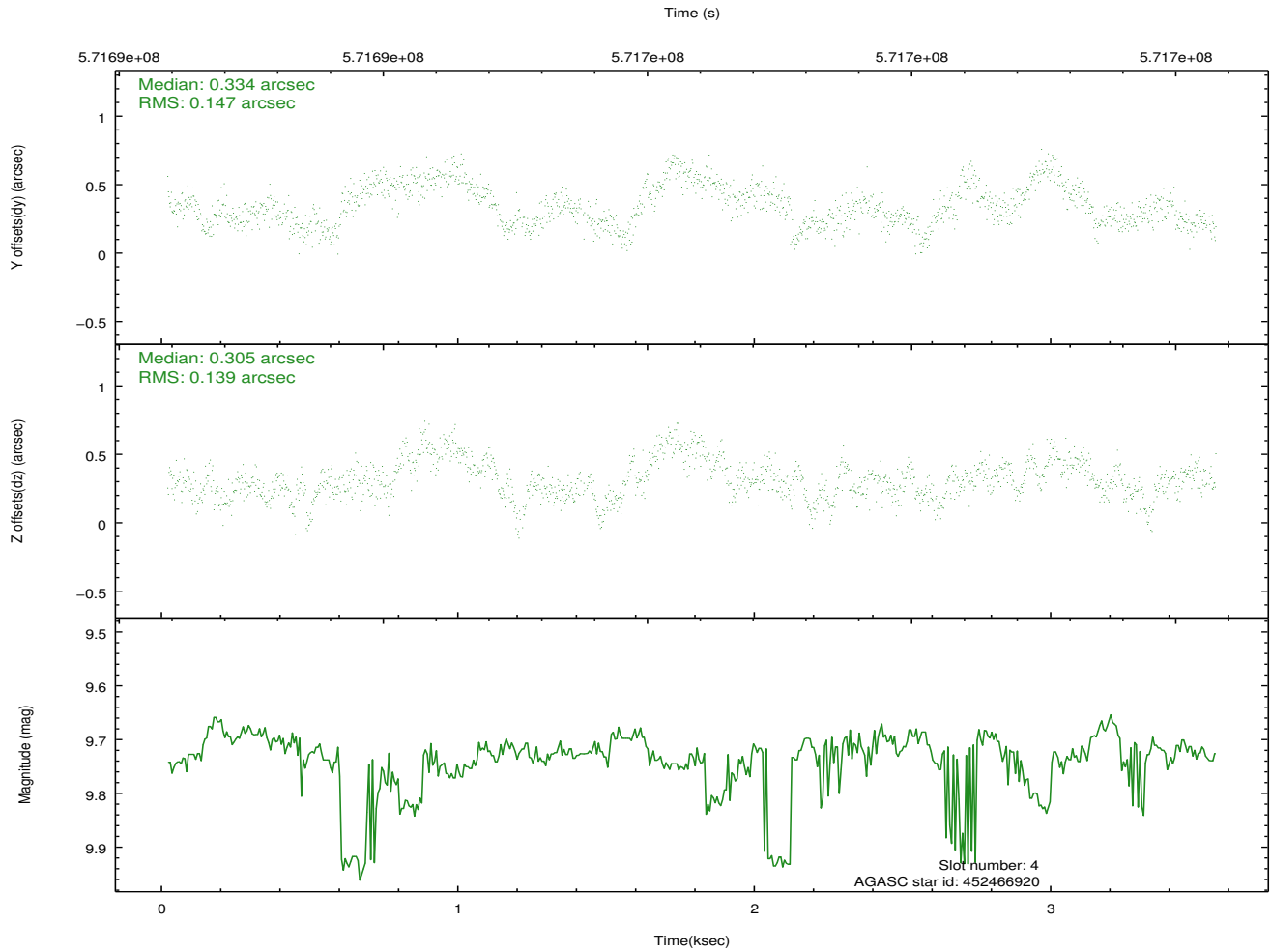
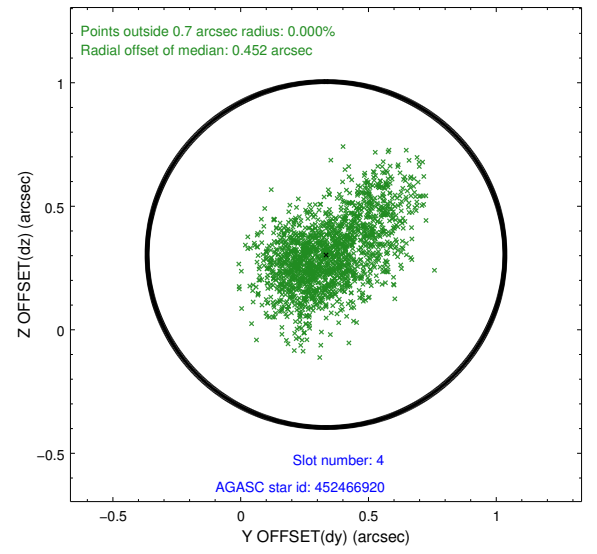
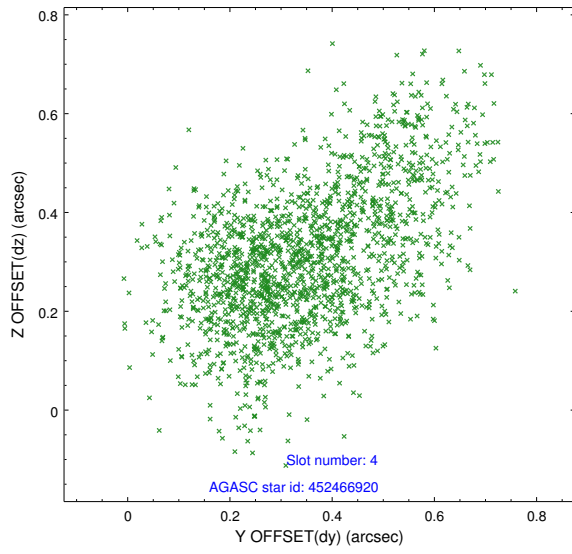
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	863	-0.224	-0.123	0.006	0.011	0.000000	0.000000	-773.88	-1742.43
1	FID		ACIS-S-4	7.23	863	0.467	0.141	0.005	0.009	0.000000	0.000000	2139.24	164.49
2	FID		ACIS-S-5	7.23	863	-0.275	-0.009	0.006	0.011	0.000000	0.000000	-1824.51	159.99
3	GUIDE	used	452341880	8.64	1725	-0.428	-0.626	0.170	0.298	173.694474	46.596663	2263.14	1867.18
4	GUIDE	used	452466920	9.73	1711	0.334	0.305	0.211	0.366	176.002077	46.445287	-2069.12	-1895.93
5	GUIDE	used	452474296	9.39	1722	0.140	-0.224	0.149	0.241	175.196051	46.137456	-1513.55	323.39
6	GUIDE	used	452474760	8.92	1724	0.330	0.286	0.109	0.171	175.631749	46.506608	-1284.84	-1375.28
7	GUIDE	used	452475360	9.23	1723	-0.351	0.265	0.133	0.216	174.583197	46.956026	1667.54	-606.82

2.4 Star Slots

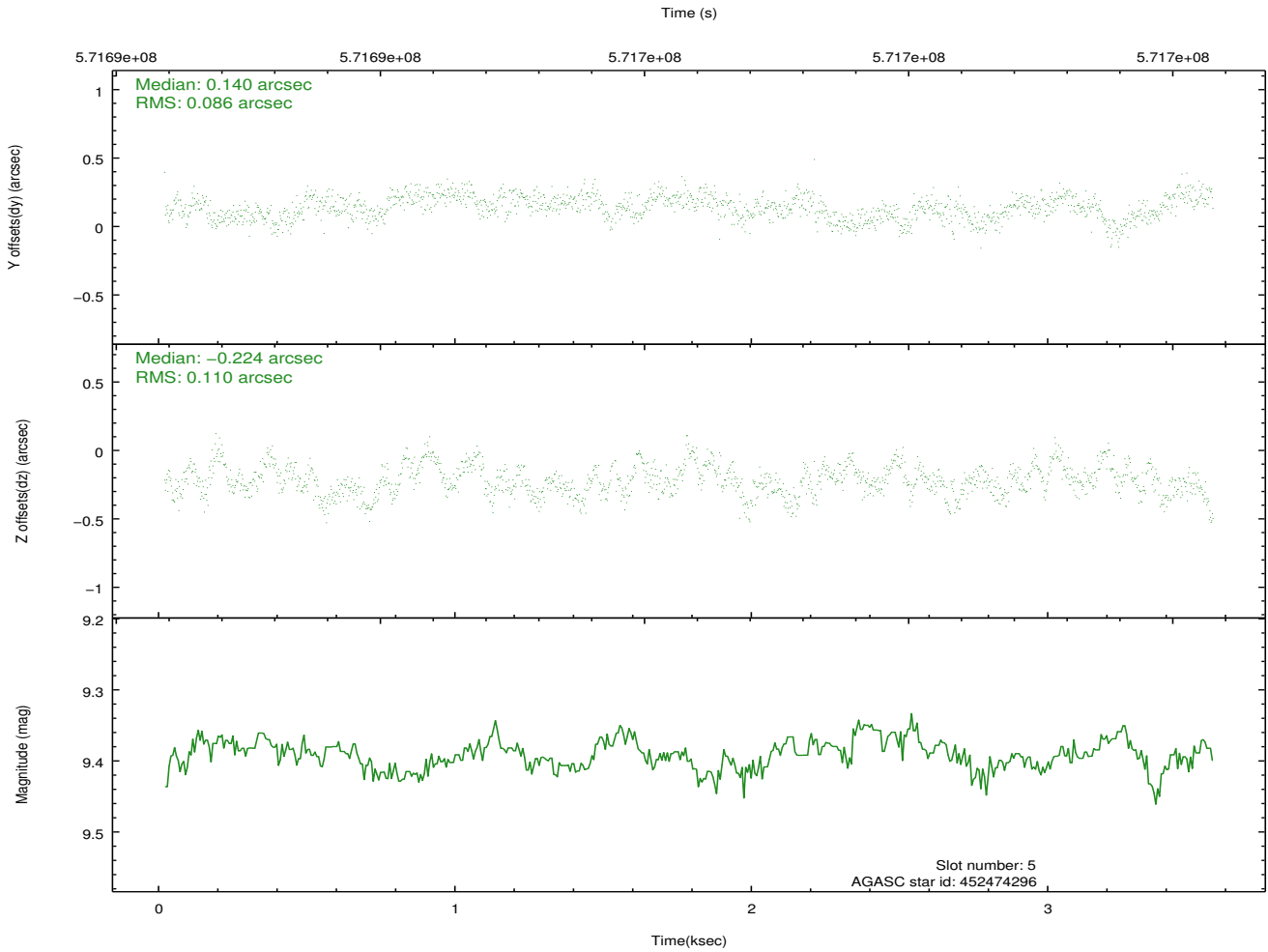
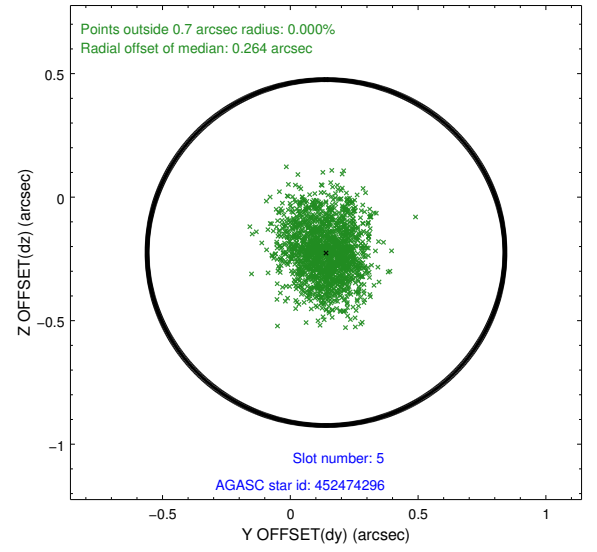
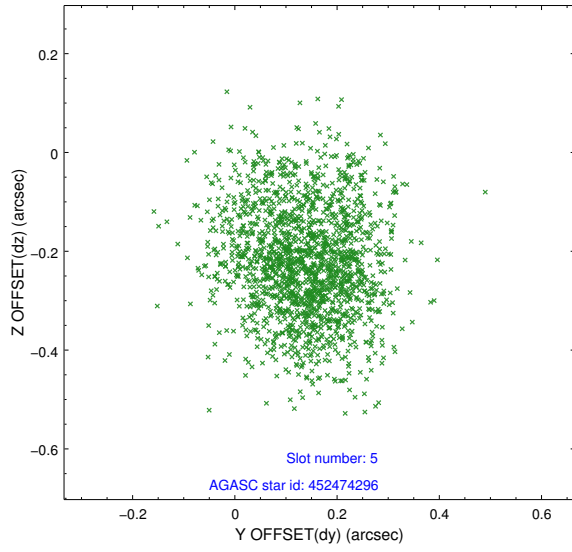
2.4.1 Slot 3



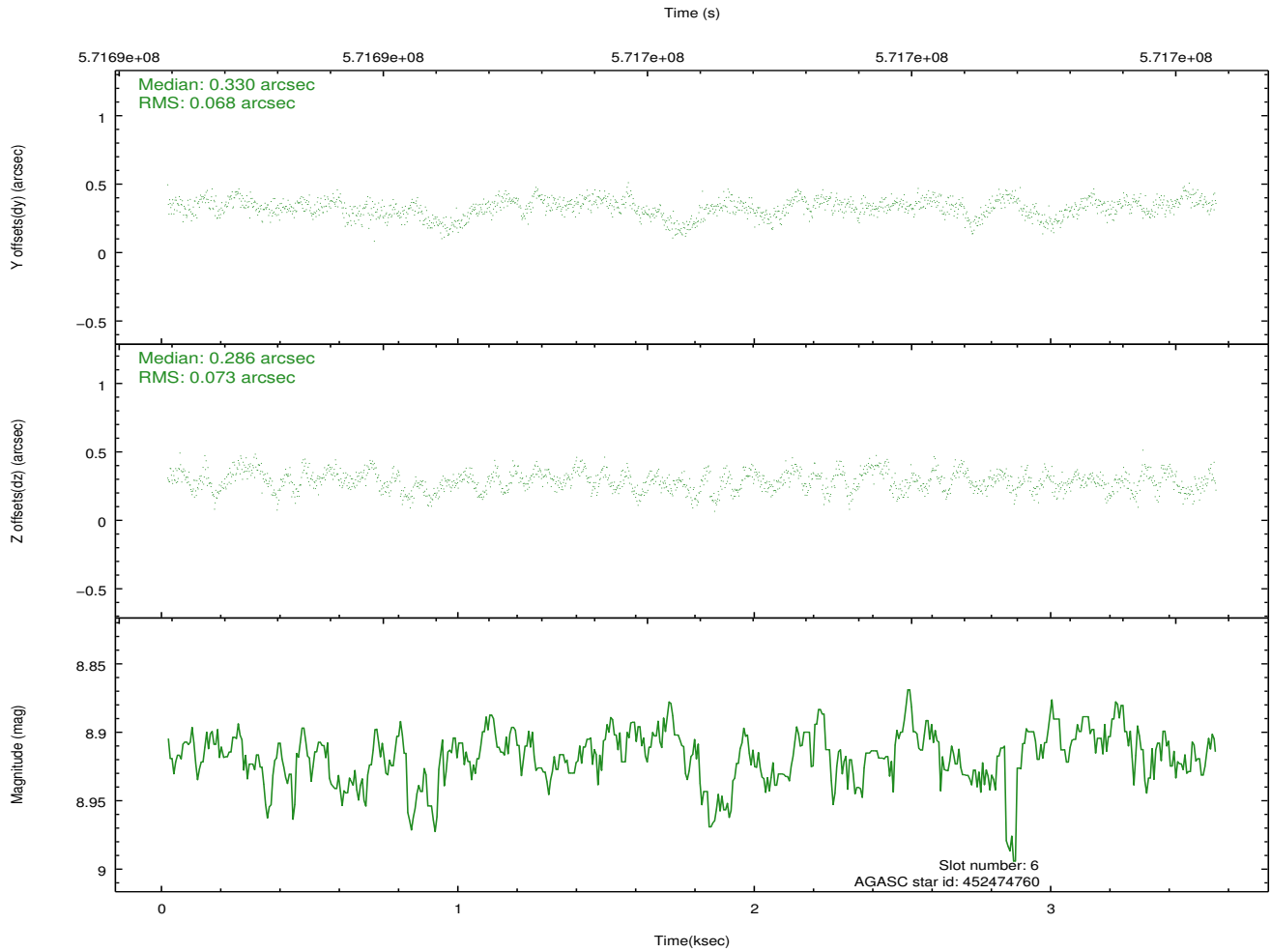
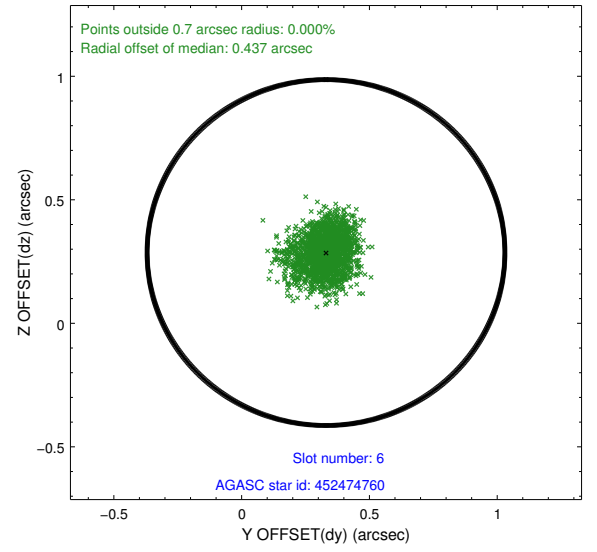
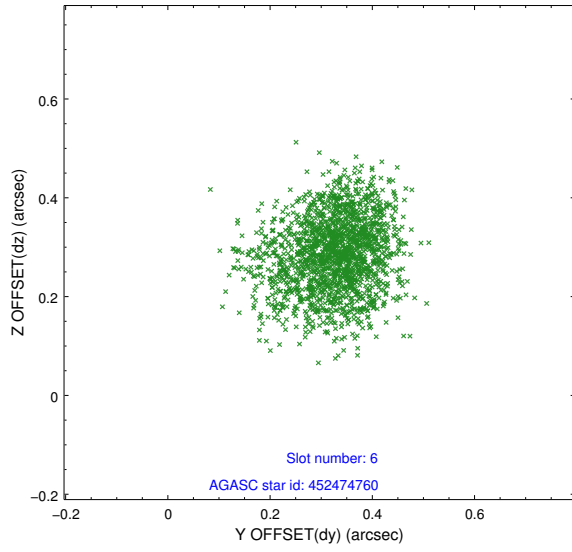
2.4.2 Slot 4



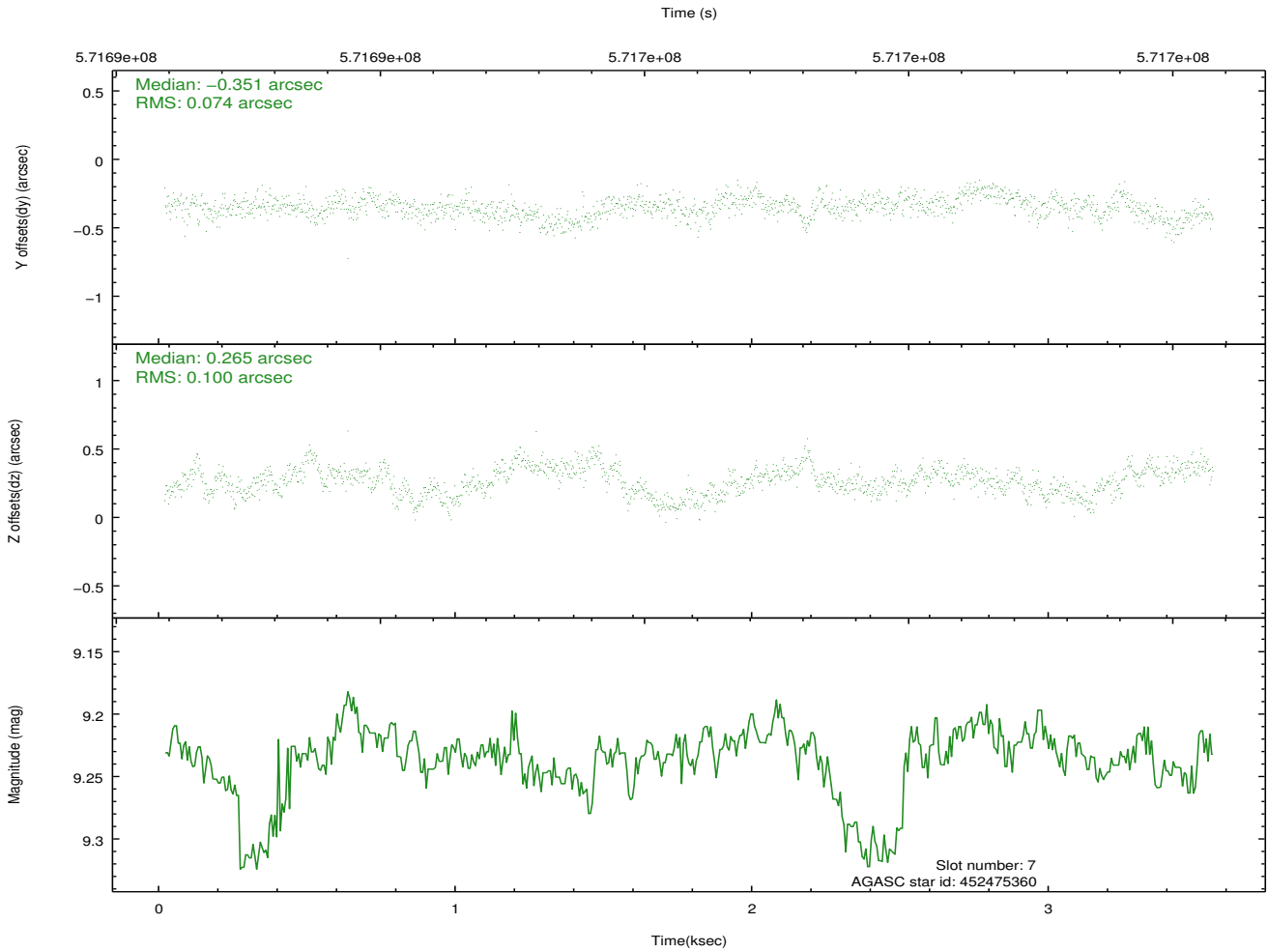
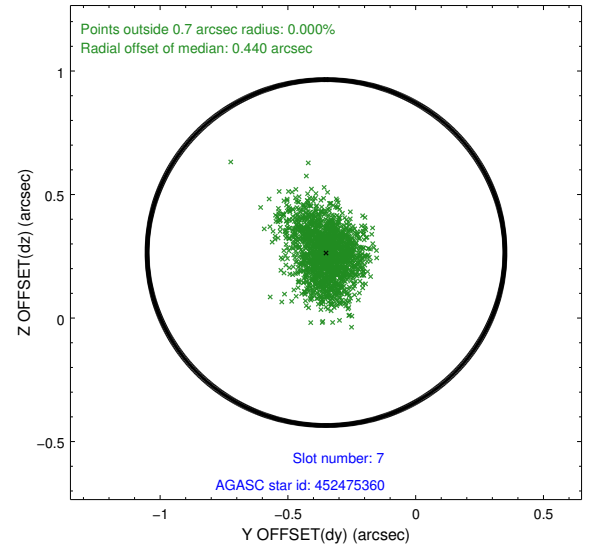
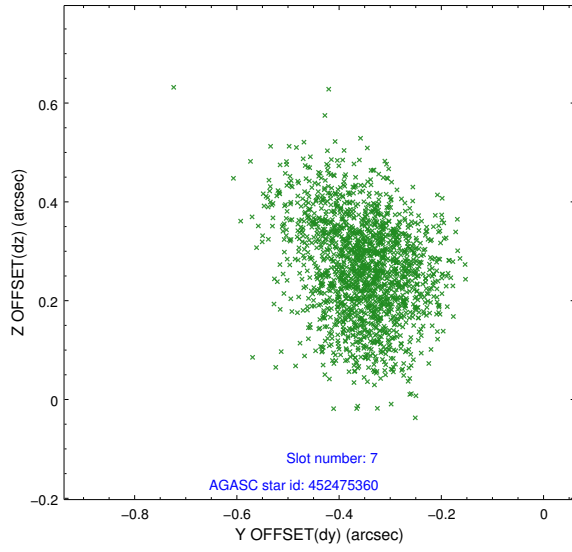
2.4.3 Slot 5



2.4.4 Slot 6

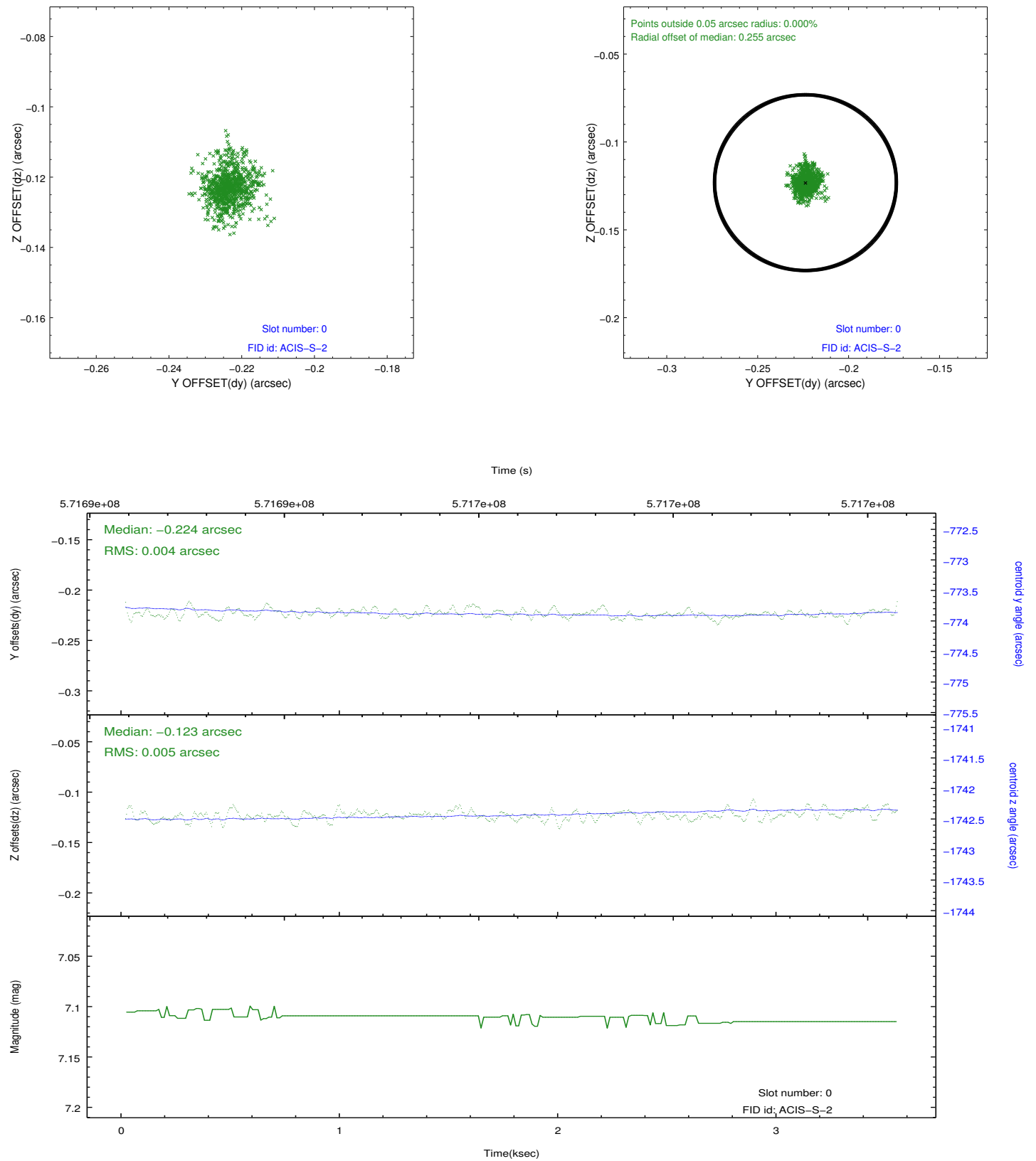


2.4.5 Slot 7

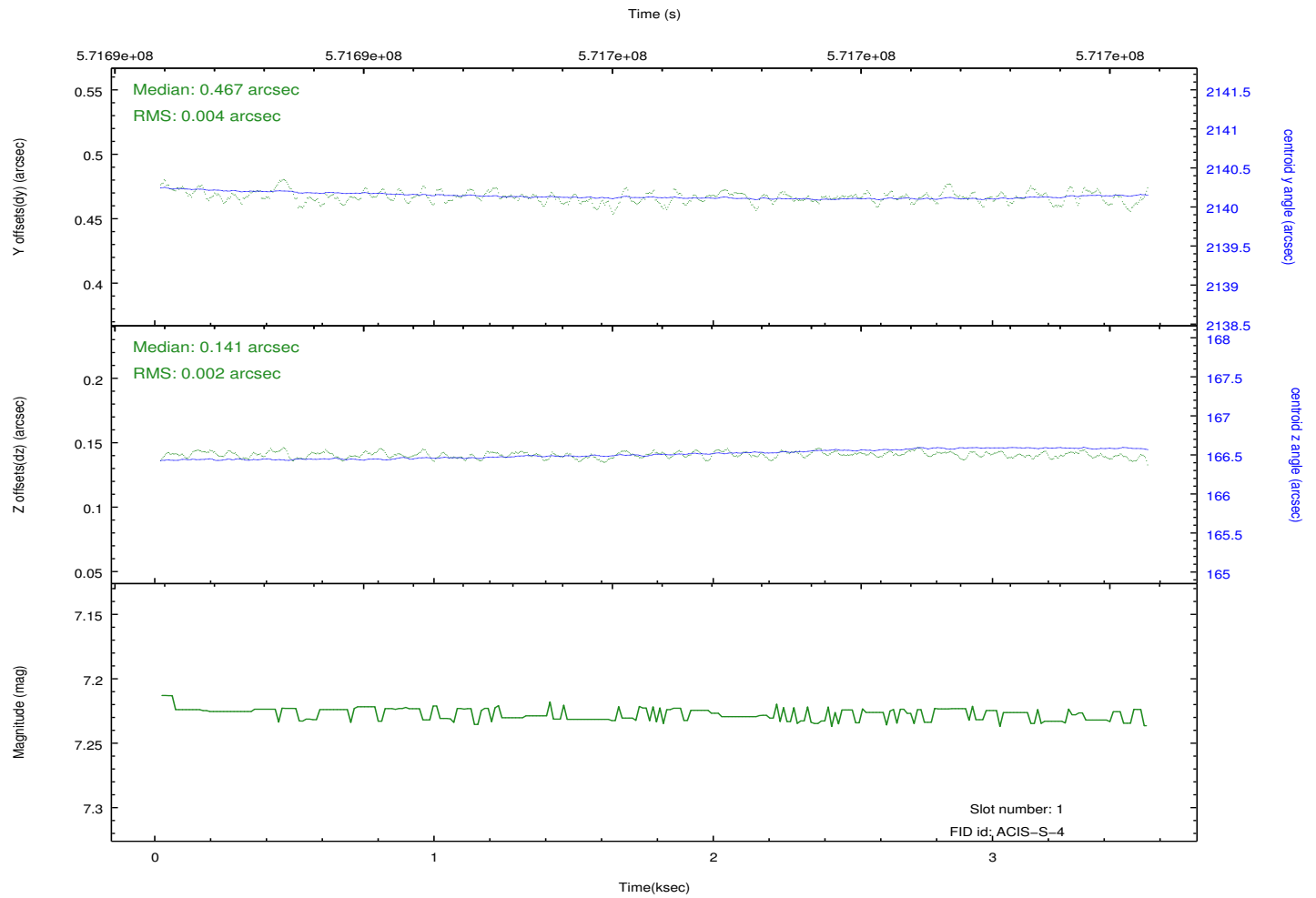
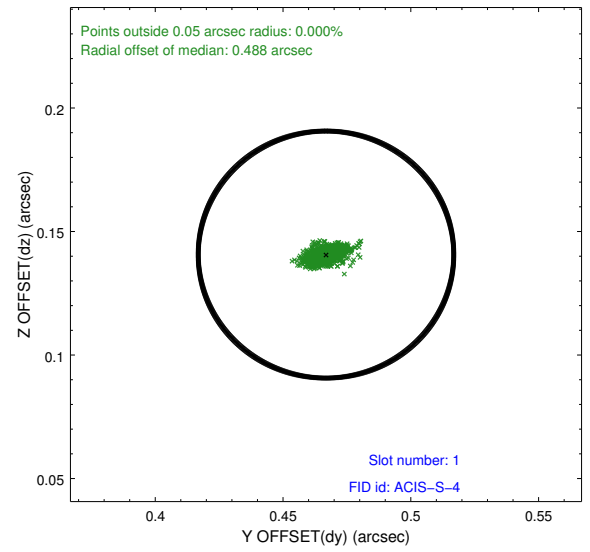
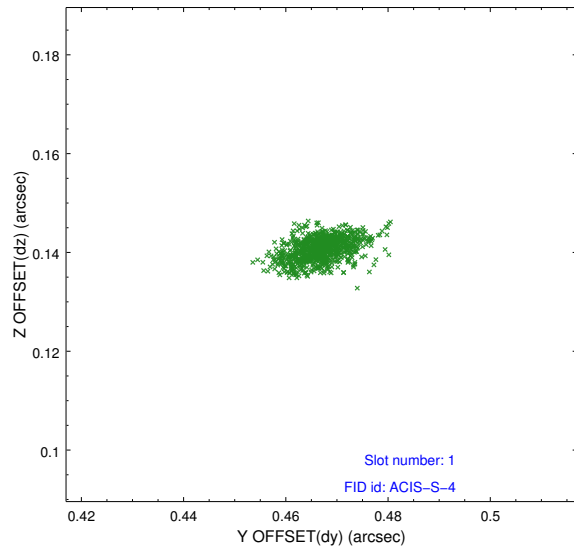


2.5 FID Slots

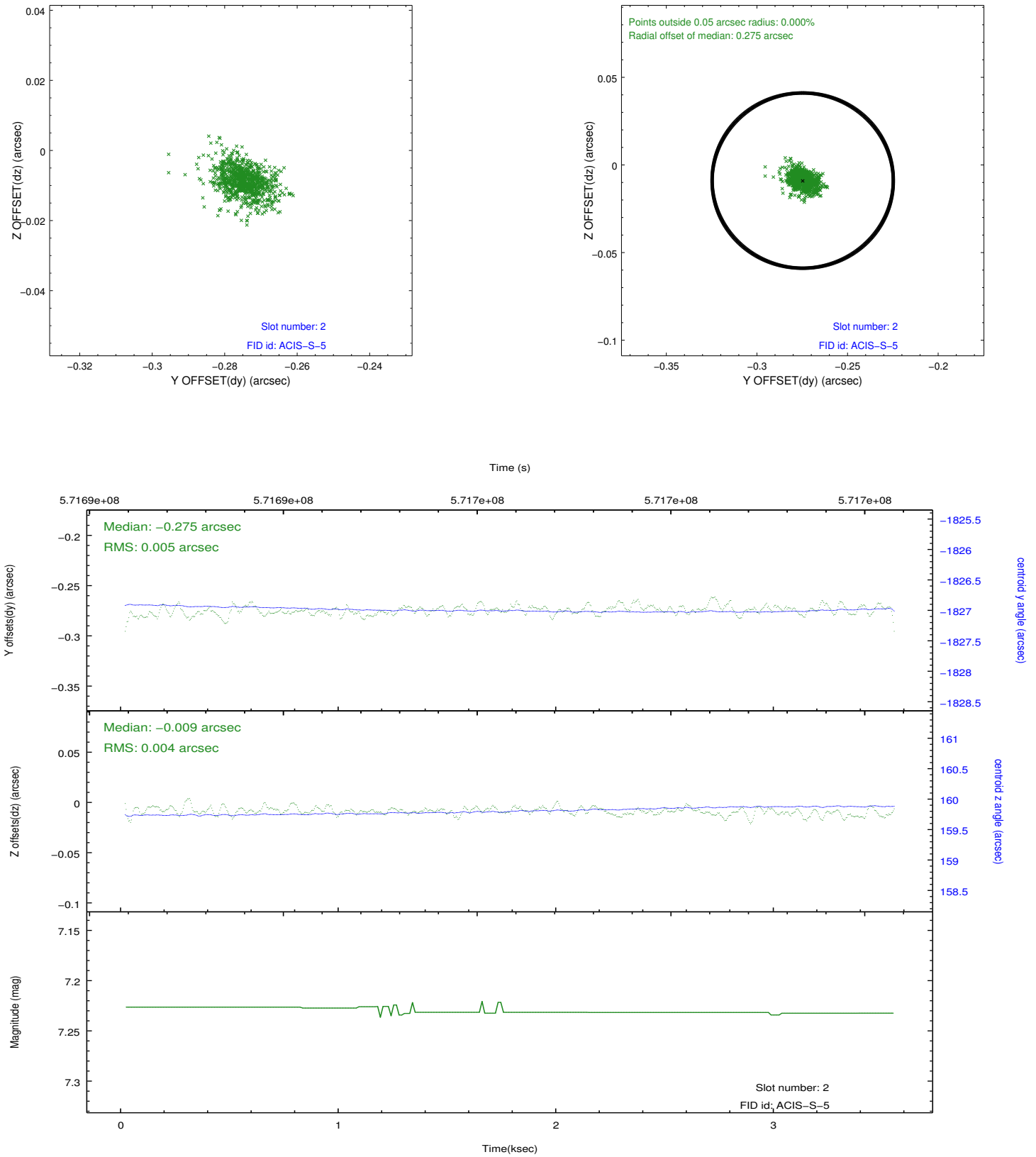
2.5.1 Slot 0



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)	2016.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9748818980455

A.2 Comments

Optional chips I2 and I3 were dropped.