

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18726 - L2 Version 1
Chandra X-Ray Center

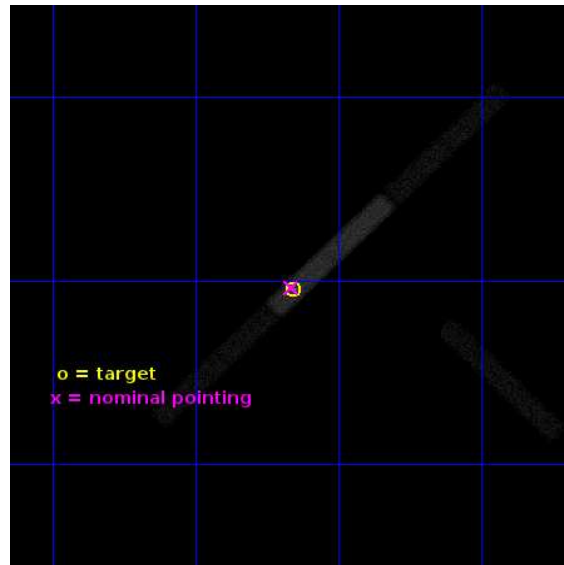
L2 Processing Date : Dec 16 2015

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1 Front

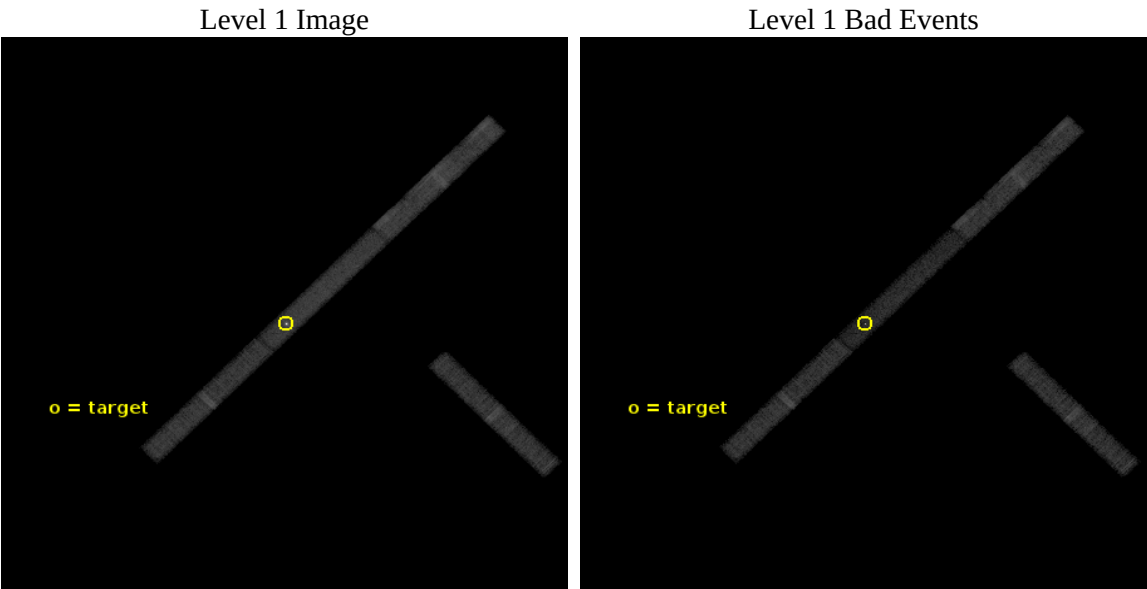
seq_num	703251	Sequence number
obs_id	18726	Observation id
title	Expanding Superbubbles in Luminous AGN: Unifying Chandra with MUSE	
observer	Dr. Grant Tremblay	Principal investigator
object	HE 0351+0240	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.539583	Observer's specified target RA [deg]
dec_targ	2.825278	Observer's specified target Dec [deg]
ra_nom	58.541244348132	Nominal RA [deg]
dec_nom	2.8269970886598	Nominal Dec [deg]
roll_nom	315.15654538674	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45088.03088975	Sum of GTIs [s]
livetime	42201.45160029	Livetime [s]
ontime3	45087.307769775	Sum of GTIs [s]
ontime6	45087.989849806	Sum of GTIs [s]
ontime7	45088.03088975	Sum of GTIs [s]
ontime8	45087.907769799	Sum of GTIs [s]
l2events	60231	Number of level 2 events



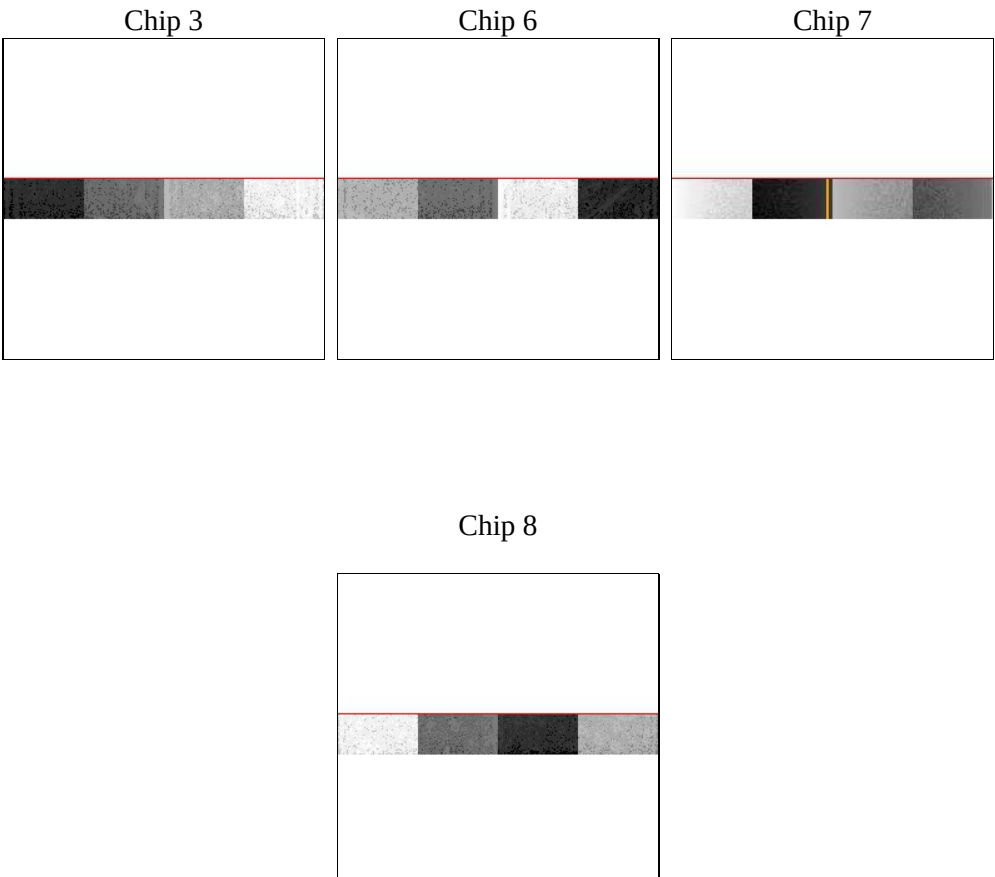
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.524000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	45088.03088975	Sum of GTIs [s]
caldbver	4.7.0	 	ontime3	45087.307769775	Sum of GTIs [s]
date	2015-12-16T21:10:09	Date and time of file creation	ontime6	45087.989849806	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	45088.03088975	Sum of GTIs [s]
			ontime8	45087.907769799	Sum of GTIs [s]
			l1events	221043	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	40659	42602	77880	59902
rejected events	36340	37785	28210	47088
rejected %	89%	88%	36%	78%

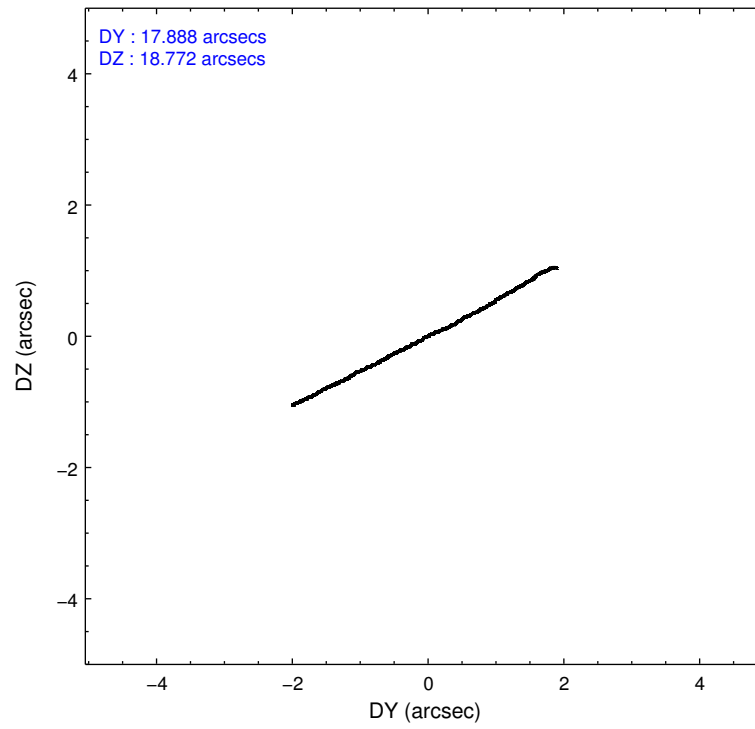
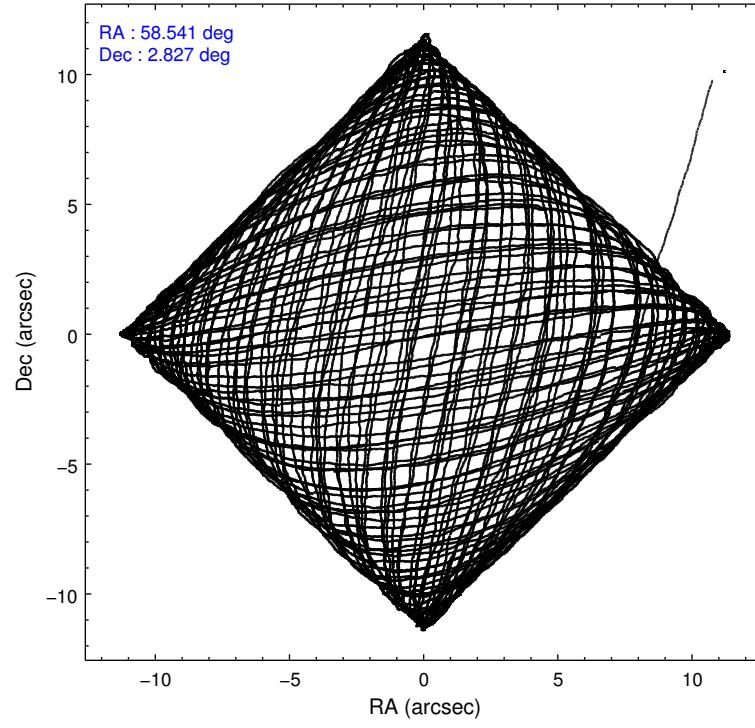
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1224	1284	8460	2935
	3%	3%	10%	4%
grade 1 events	15	16	288	16
	0%	0%	0%	0%
grade 2 events	758	822	11476	2877
	1%	1%	14%	4%
grade 3 events	781	871	5453	1498
	1%	2%	7%	2%
grade 4 events	765	788	5440	1409
	1%	1%	6%	2%
grade 5 events	1568	1614	5868	2348
	3%	3%	7%	3%
grade 6 events	791	1052	18842	4095
	1%	2%	24%	6%
grade 7 events	34757	36155	22053	44724
	85%	84%	28%	74%

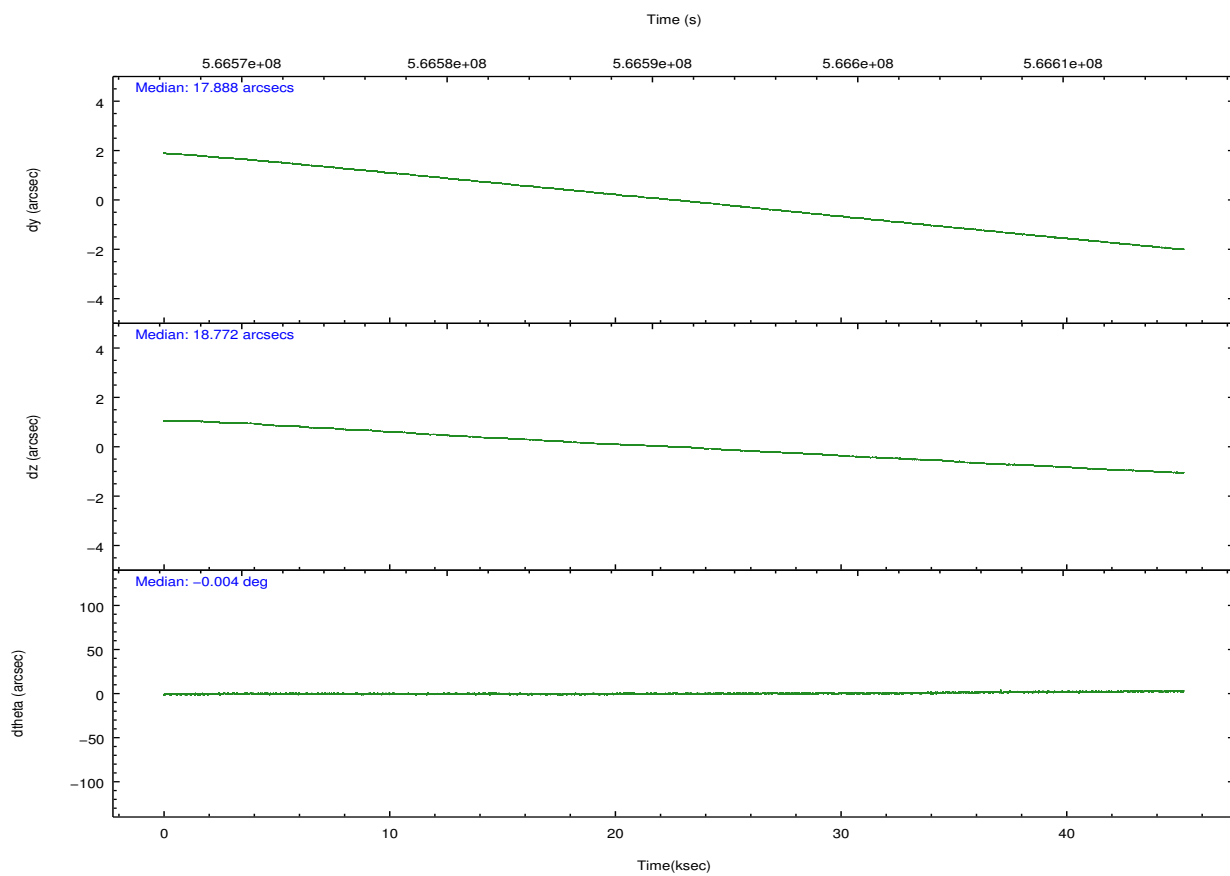
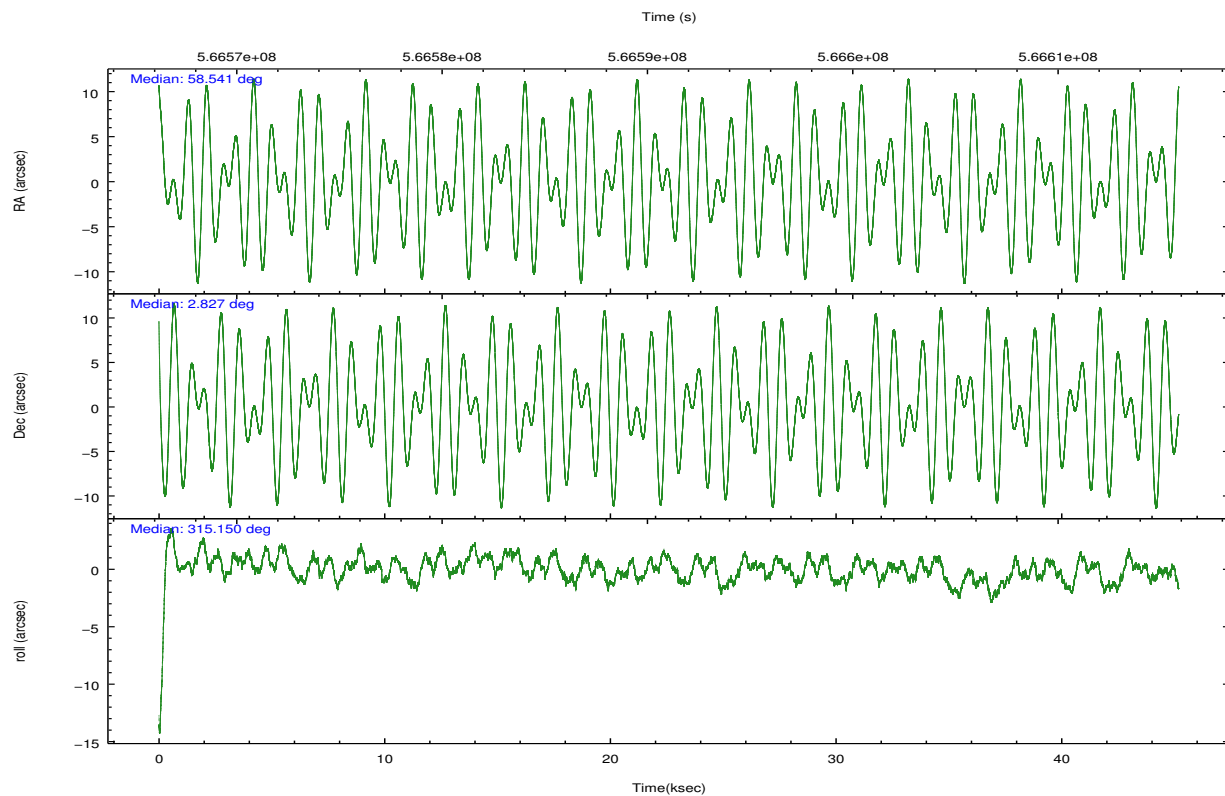
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3678	ACIS-3678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	58.514590	58.54124434813242
[deg] Pointing Dec	2.833687	2.826997088659752
[deg] Pointing Roll	315.001236	315.1565453867445
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	566568628.184000	566567917.73395
Observation start date	2015-12-15T12:09:20	2015-12-15T11:58:37
[s] Observation end time (MET)	566613628.184000	566613854.6490901
Observation end date	2015-12-16T00:39:20	2015-12-16T00:44:14
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	O1	N
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.6

2.3 Aspect



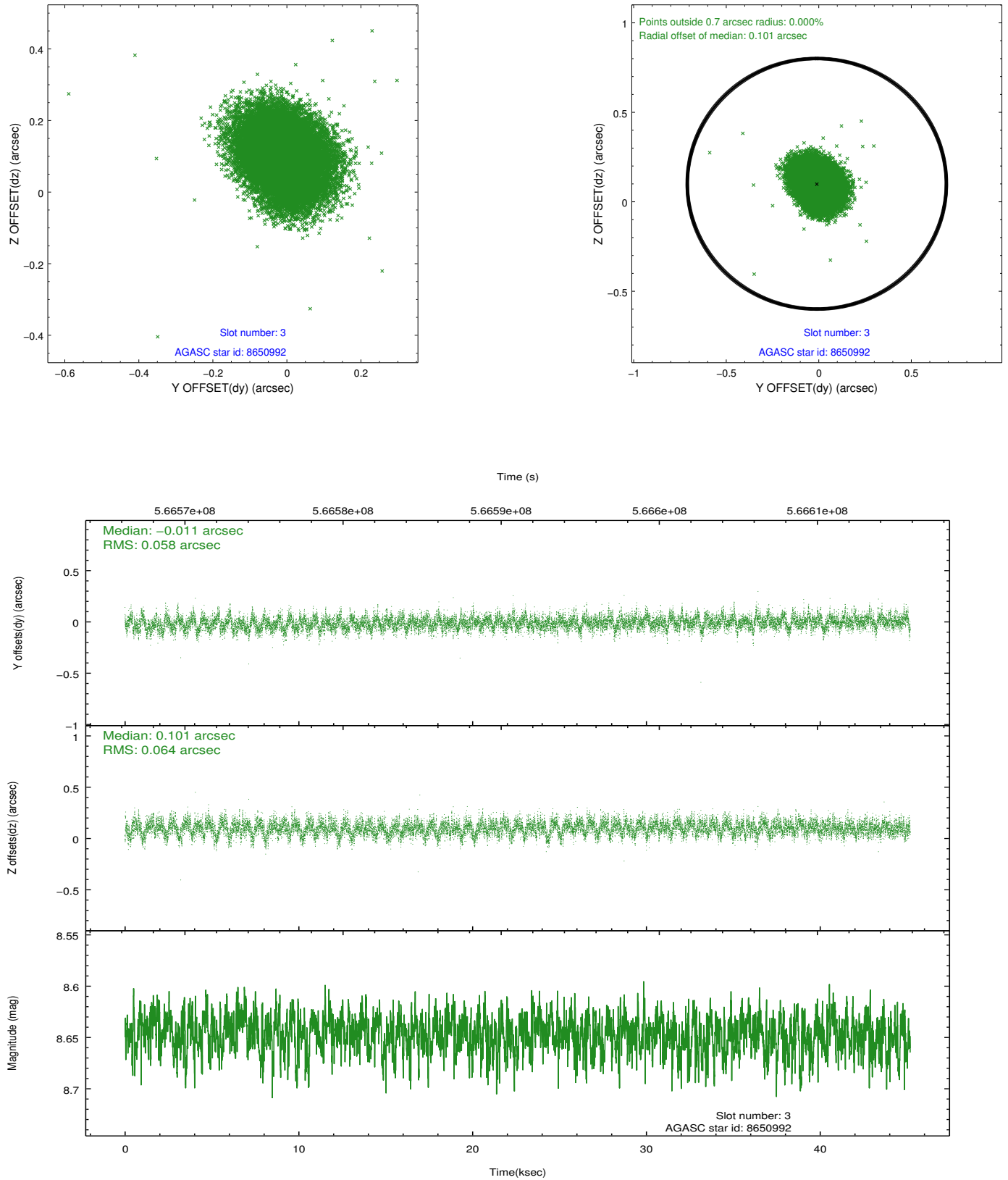


Slot Statistics

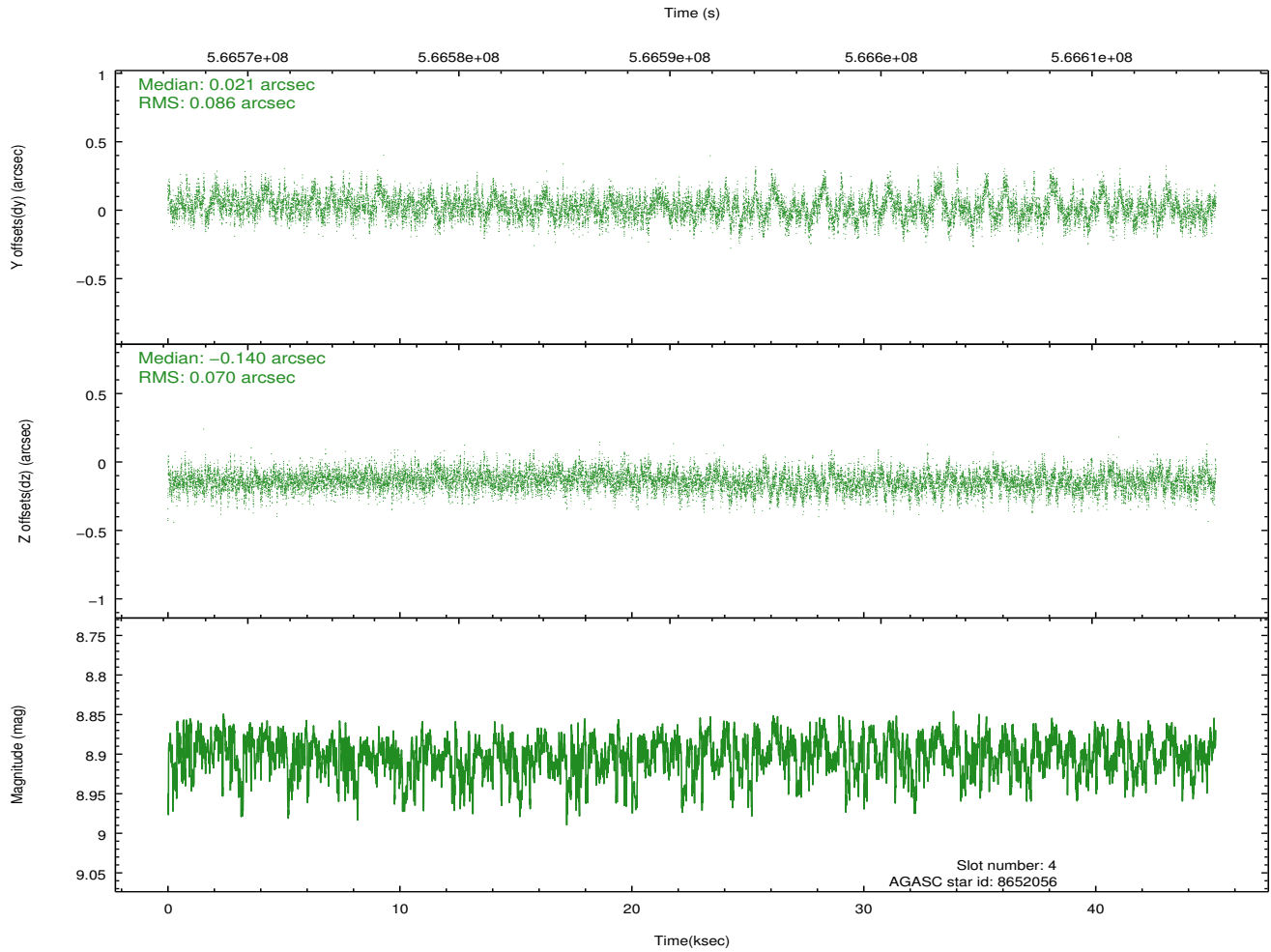
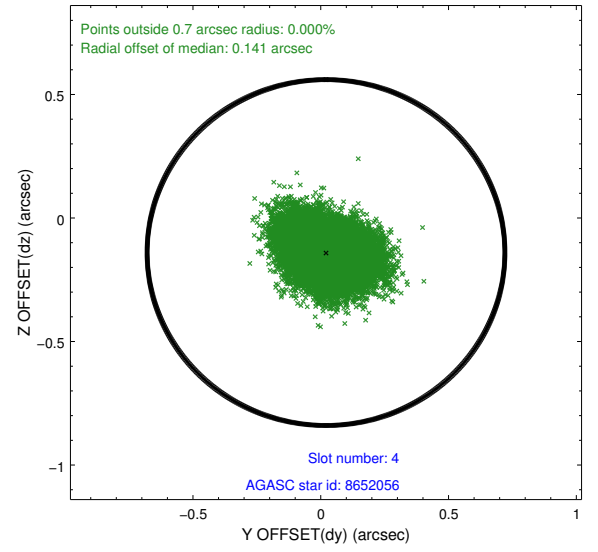
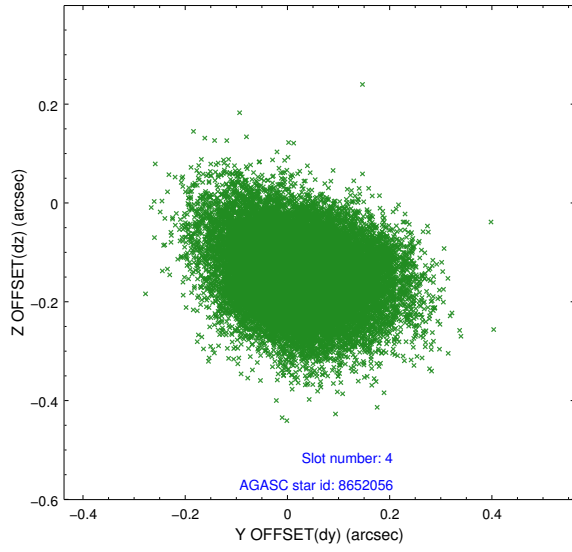
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	11022	-0.171	-0.143	0.027	0.064	0.000000	0.000000	-771.09	-1740.34
1	FID		ACIS-S-4	7.22	11022	0.447	0.121	0.040	0.061	0.000000	0.000000	2142.81	168.42
2	FID		ACIS-S-5	7.24	11022	-0.300	0.028	0.020	0.039	0.000000	0.000000	-1824.06	161.97
3	GUIDE	used	8650992	8.65	22030	-0.011	0.101	0.091	0.149	58.579918	2.373082	1339.19	-1005.87
4	GUIDE	used	8652056	8.90	22028	0.021	-0.140	0.118	0.195	58.613561	2.347943	1487.61	-984.39
5	GUIDE	used	8660472	7.24	22040	0.084	0.016	0.103	0.175	58.375951	2.119134	1467.67	-2171.23
6	GUIDE	used	9044096	8.62	22029	0.116	0.291	0.100	0.162	57.937961	2.767380	-1296.74	-1634.35
7	GUIDE	used	9044584	8.97	21951	-0.209	-0.264	0.120	0.202	59.245546	2.976448	1494.87	2220.10

2.4 Star Slots

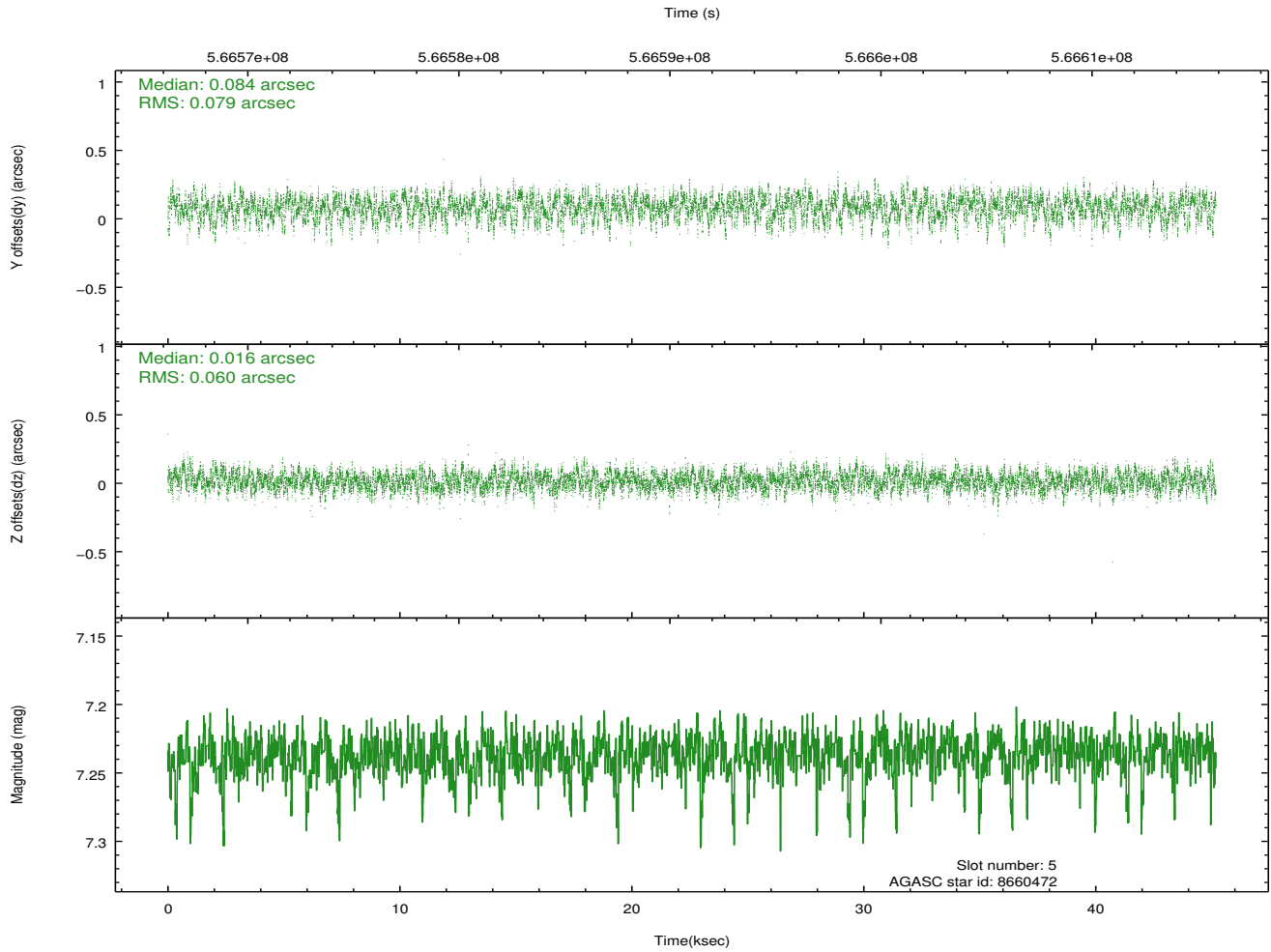
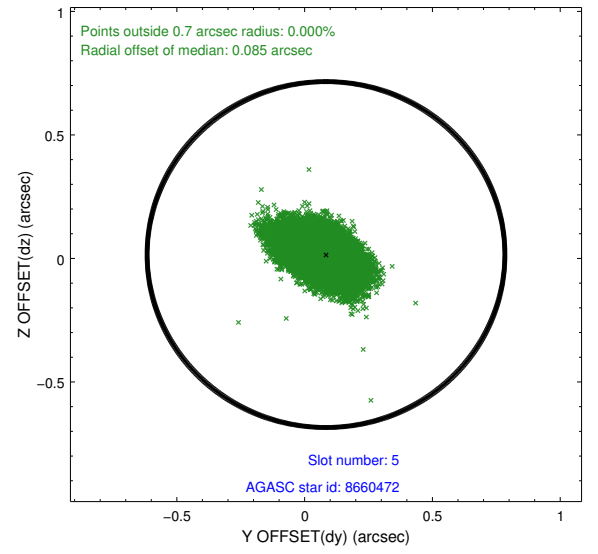
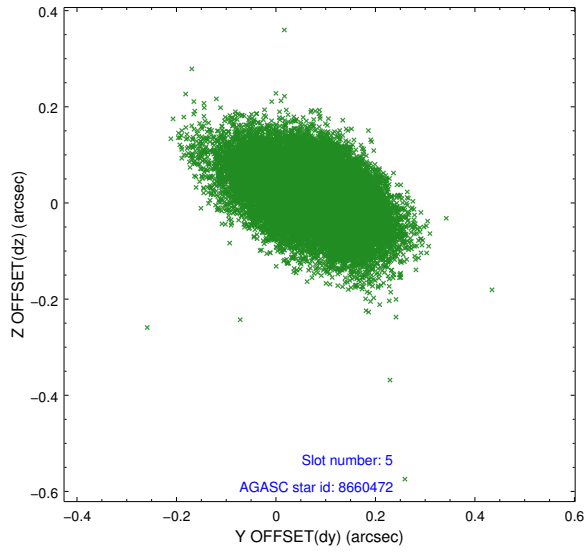
2.4.1 Slot 3



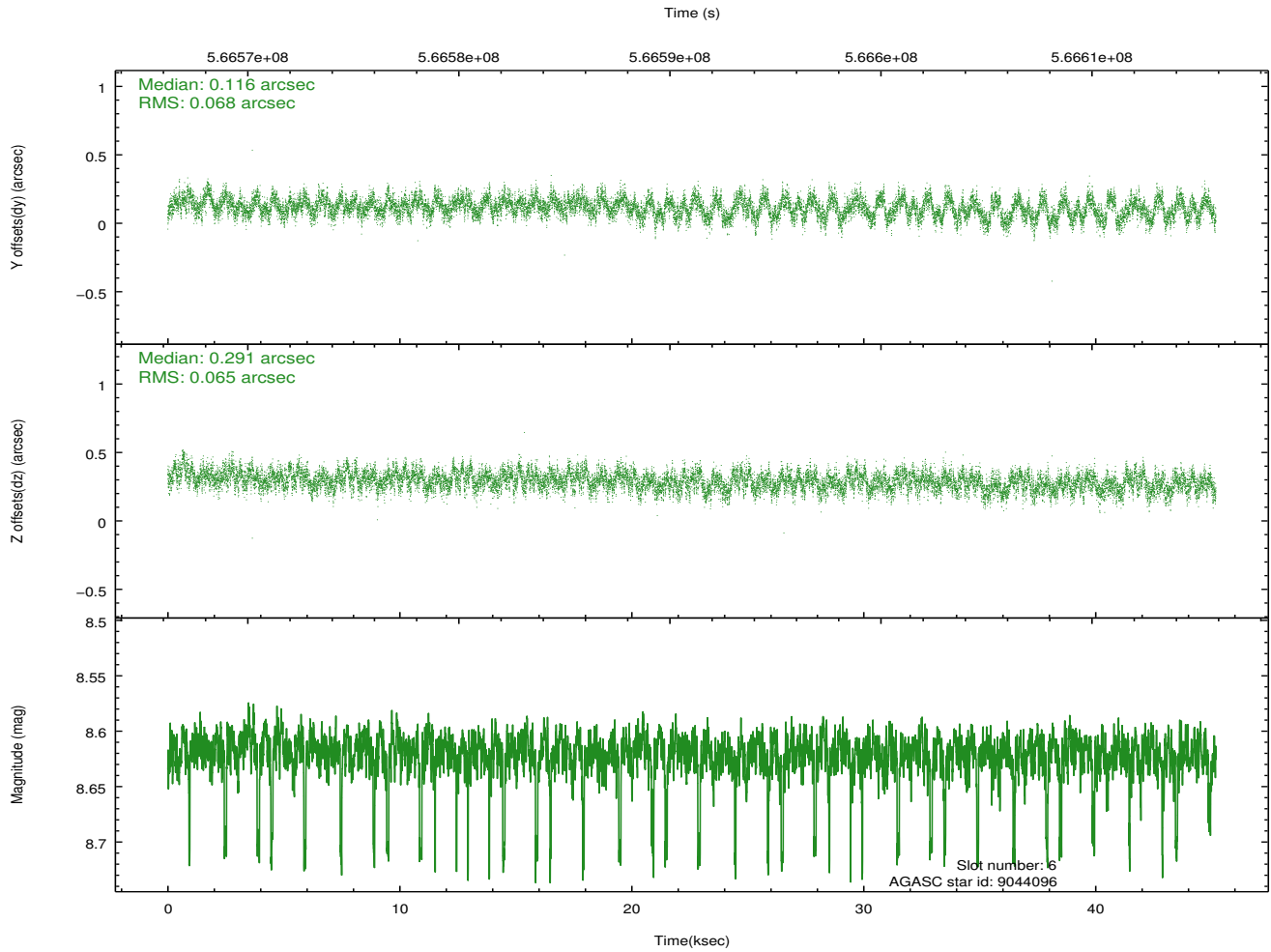
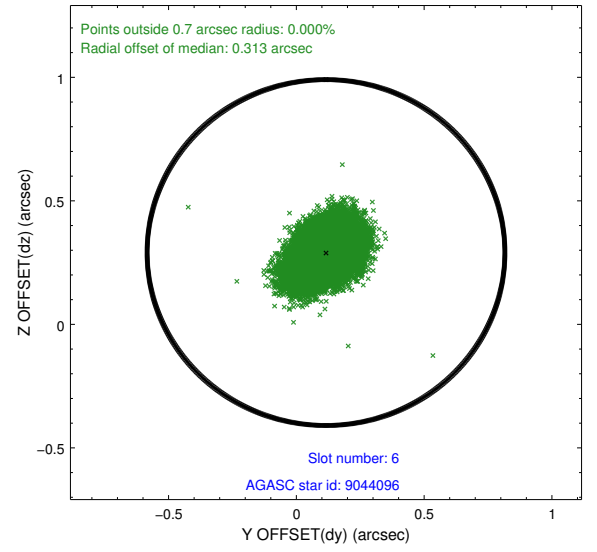
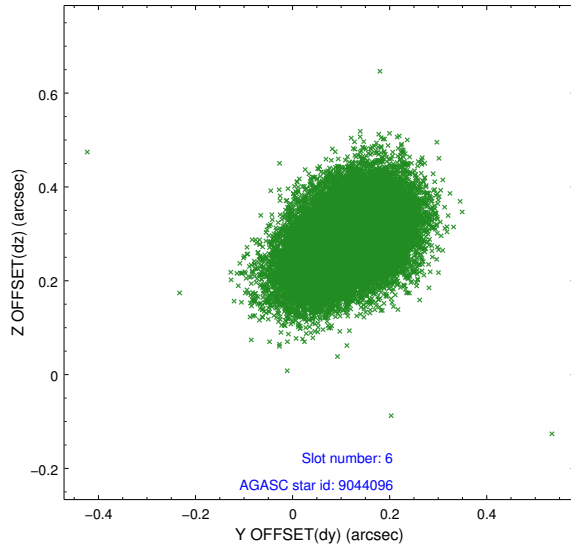
2.4.2 Slot 4



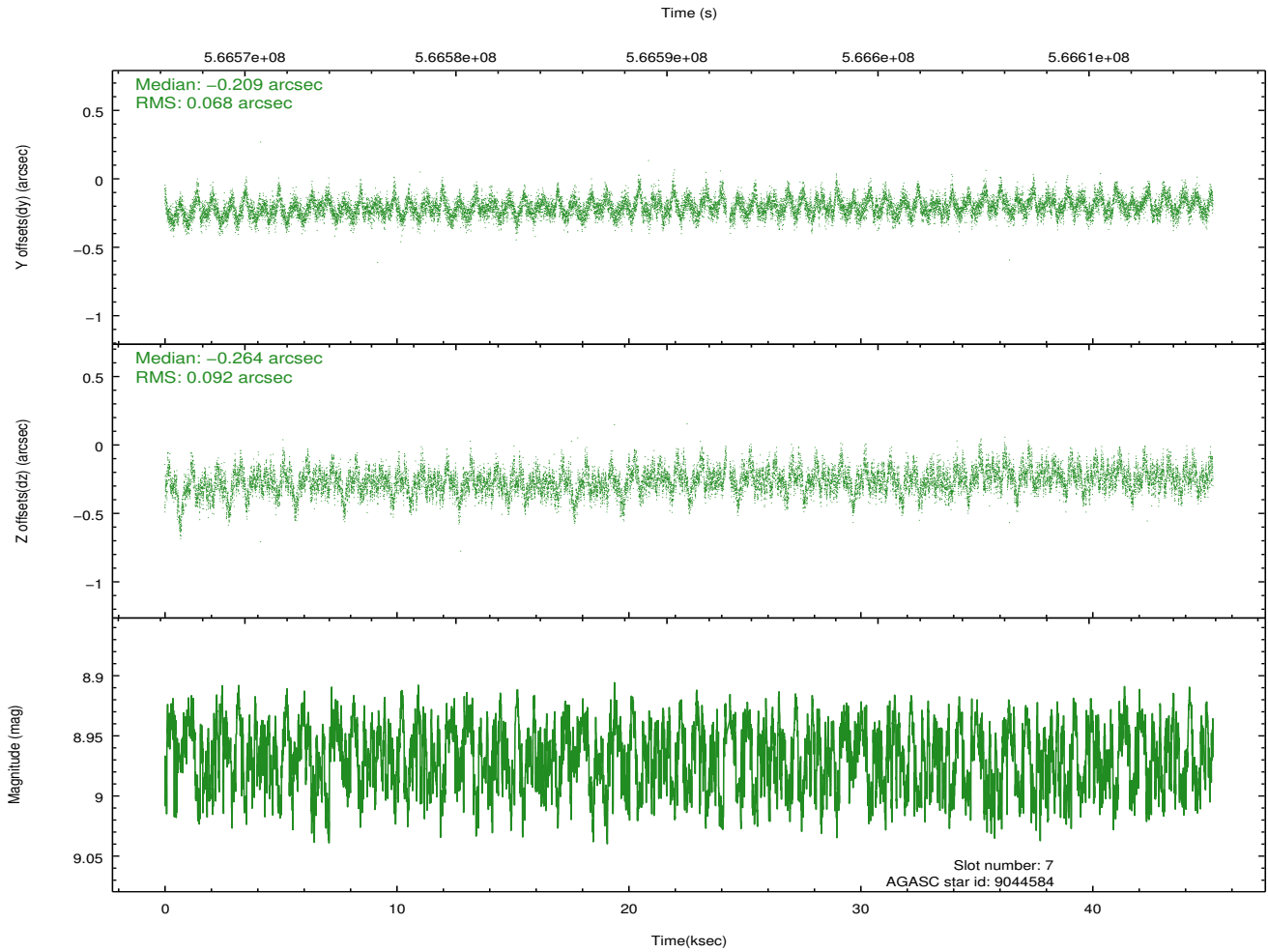
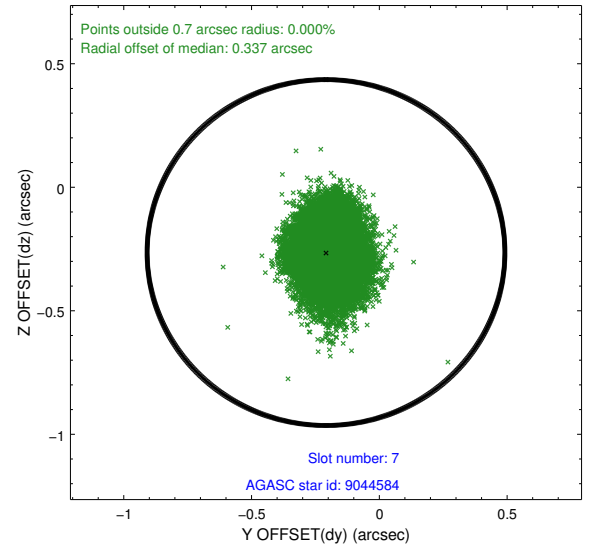
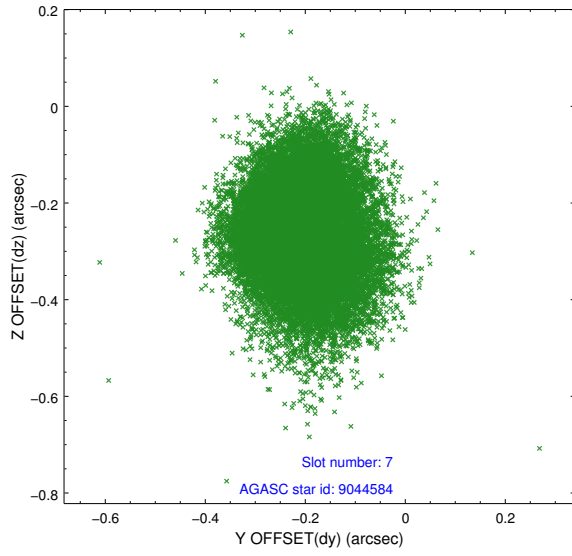
2.4.3 Slot 5



2.4.4 Slot 6

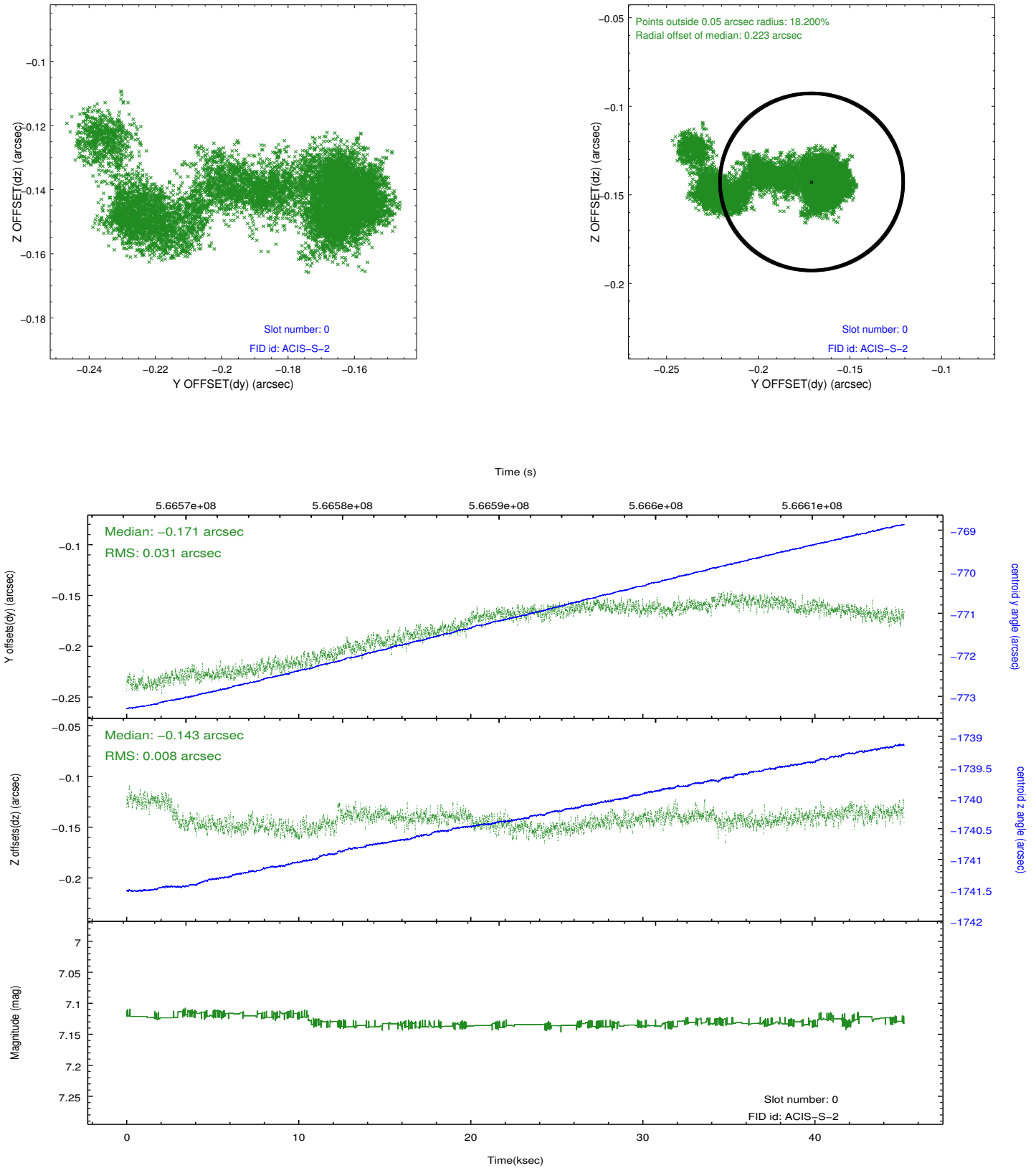


2.4.5 Slot 7

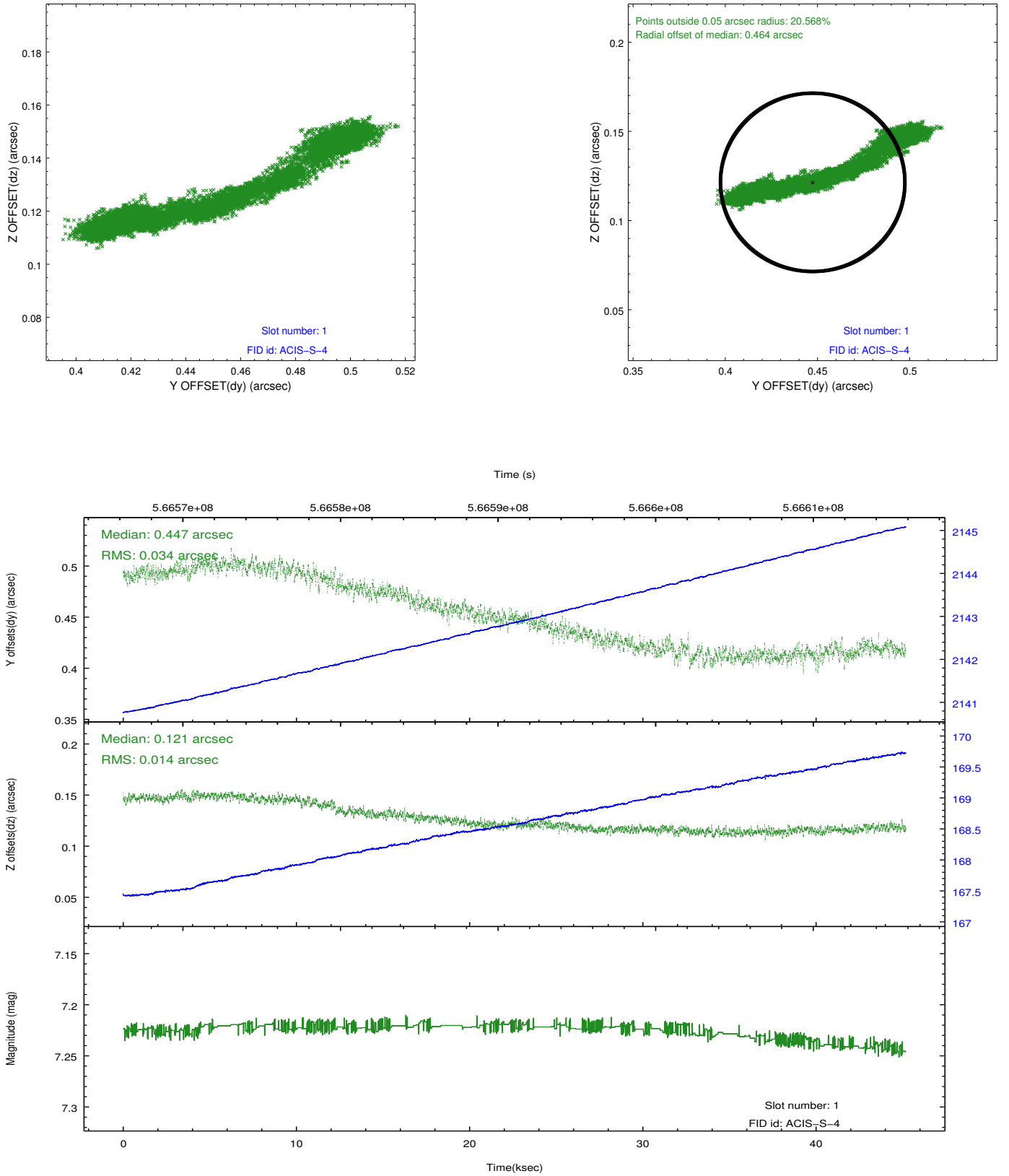


2.5 FID Slots

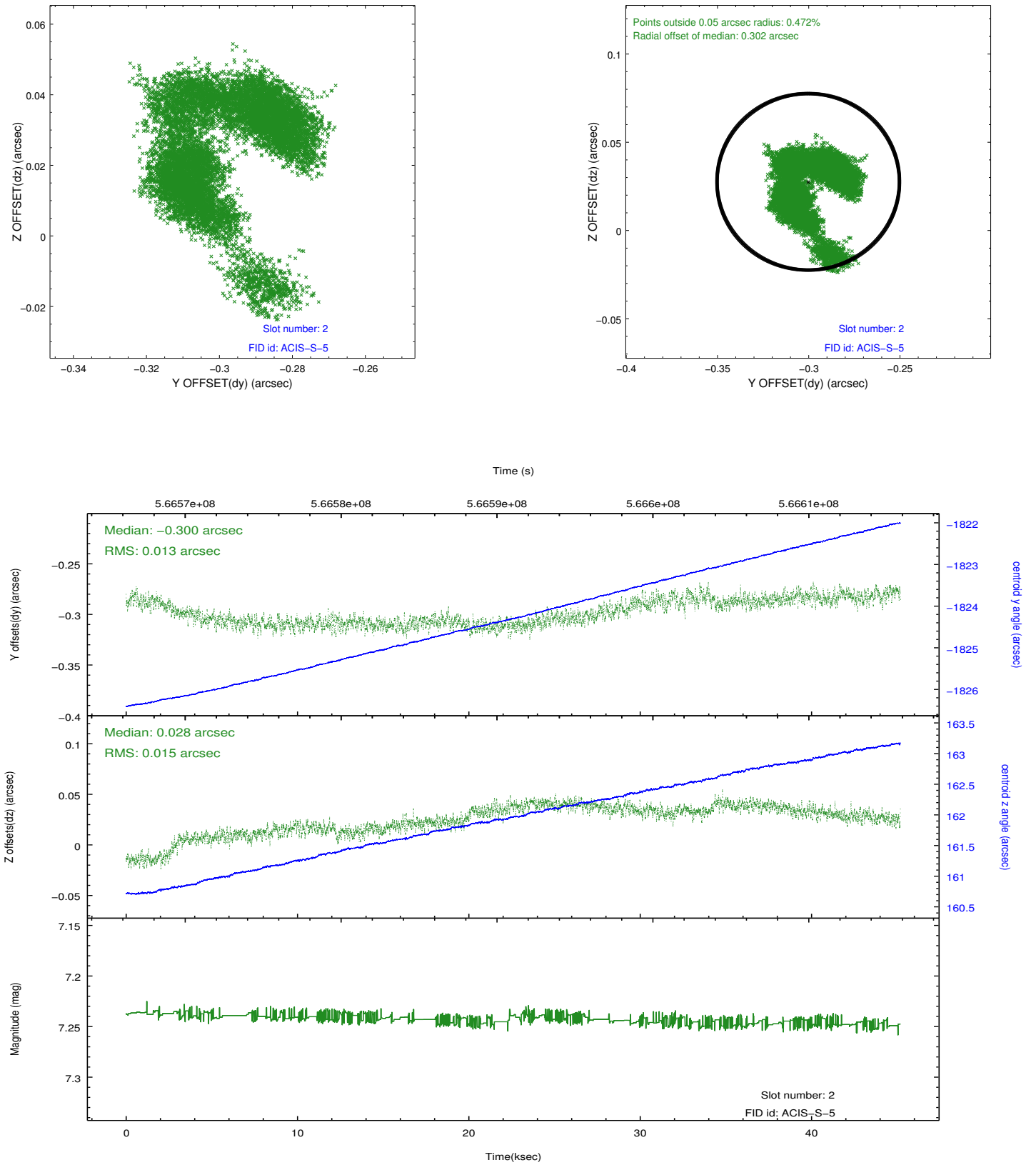
2.5.1 Slot 0



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)	2015.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.08803088975

A.2 Comments

Optional chip I2 was dropped.