

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 20423 - L2 Version 1
Chandra X-Ray Center

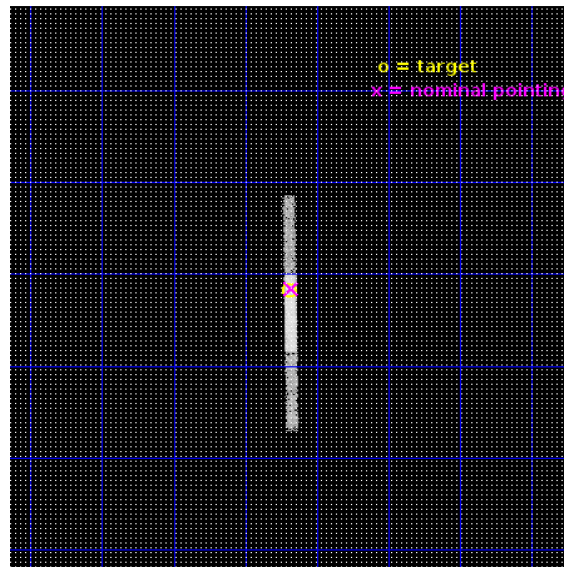
L2 Processing Date : Oct 1 2018

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1 Front

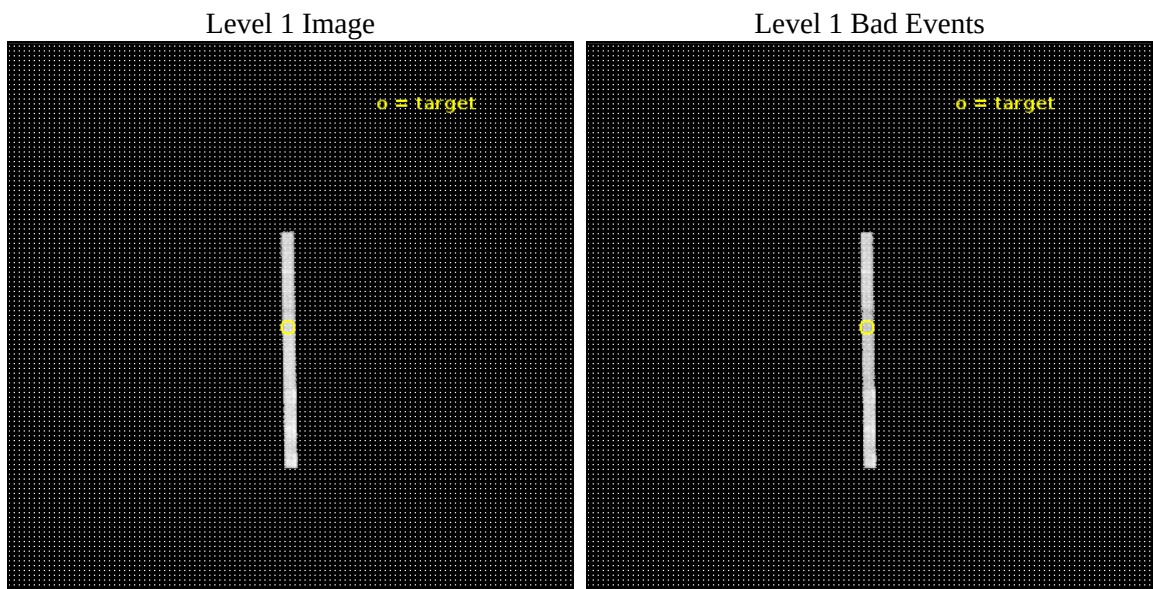
seq_num	703528	Sequence number
obs_id	20423	Observation id
title	X-ray detection of unexplored so far population of AGN	Proposal ti
observer	Magdalena Kunert-Bajraszewska	Principal investigator
object	VTC0154-0111	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	28.54875	Observer's specified target RA [deg]
dec_targ	-1.197139	Observer's specified target Dec [deg]
ra_nom	28.544457099032	Nominal RA [deg]
dec_nom	-1.1933620801012	Nominal Dec [deg]
roll_nom	89.156581048172	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15103.80060029	Sum of GTIs [s]
livetime	14136.84069664	Livetime [s]
ontime6	15103.761796236	Sum of GTIs [s]
ontime7	15103.80060029	Sum of GTIs [s]
ontime8	15103.720756173	Sum of GTIs [s]
l2events	13038	Number of level 2 events



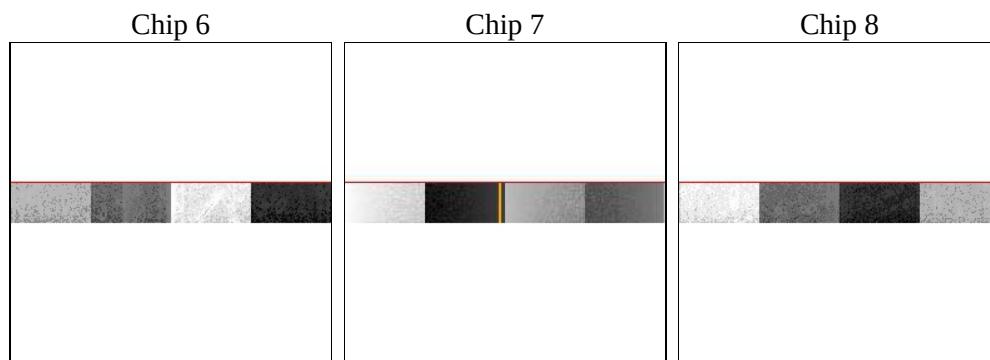
2 OBI

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	10.6.4.1	Processing system revision	ontime	15103.80060029	Sum of GTIs [s]
caldbver	4.8.0	 	ontime6	15103.761796236	Sum of GTIs [s]
date	2018-10-01T17:41:02	Date and time of file creation	ontime7	15103.80060029	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	15103.720756173	Sum of GTIs [s]
			l1events	67492	Number of level 1 events

2.1.4 Events

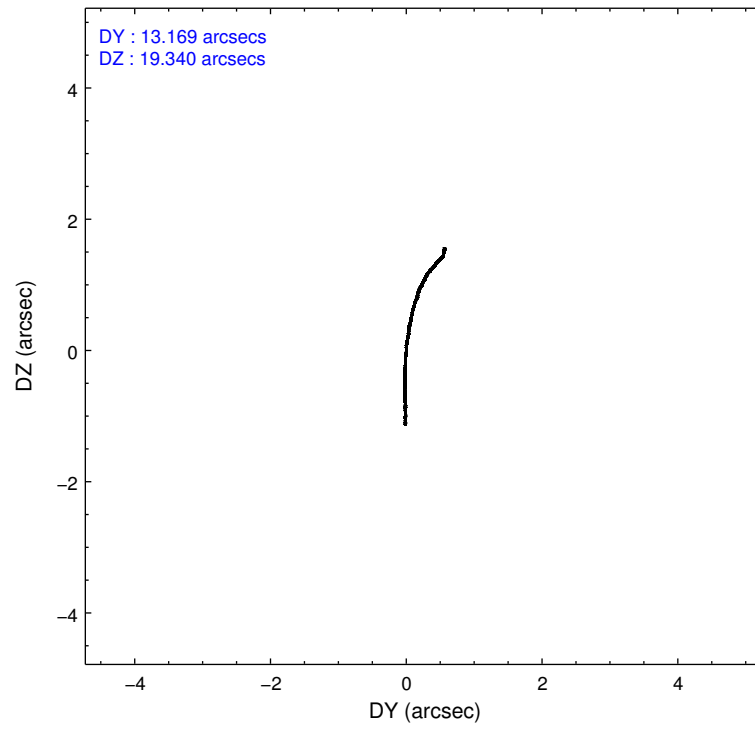
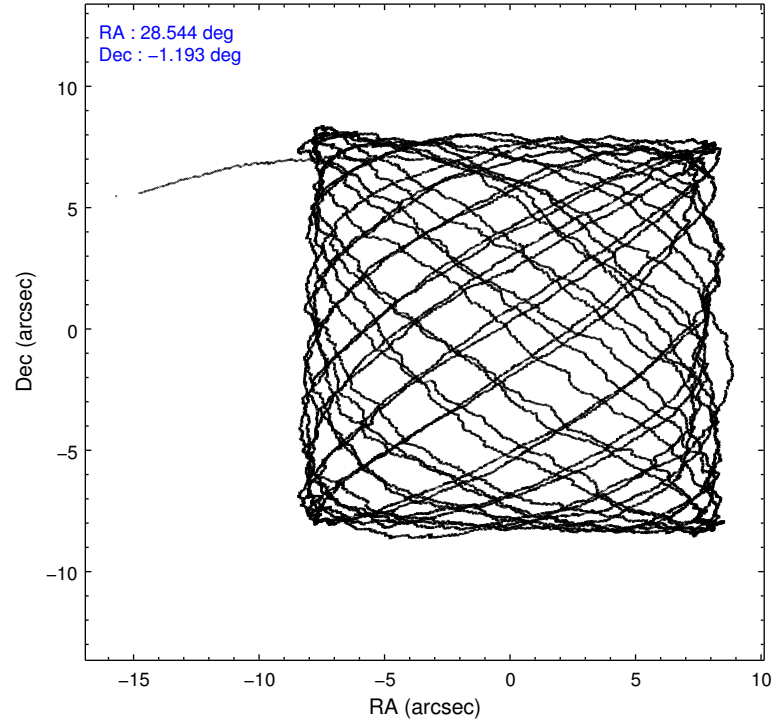
	ccd 6	ccd 7	ccd 8
level 1 events	18581	20224	28687
rejected events	16480	10488	22025
rejected %	88%	51%	76%

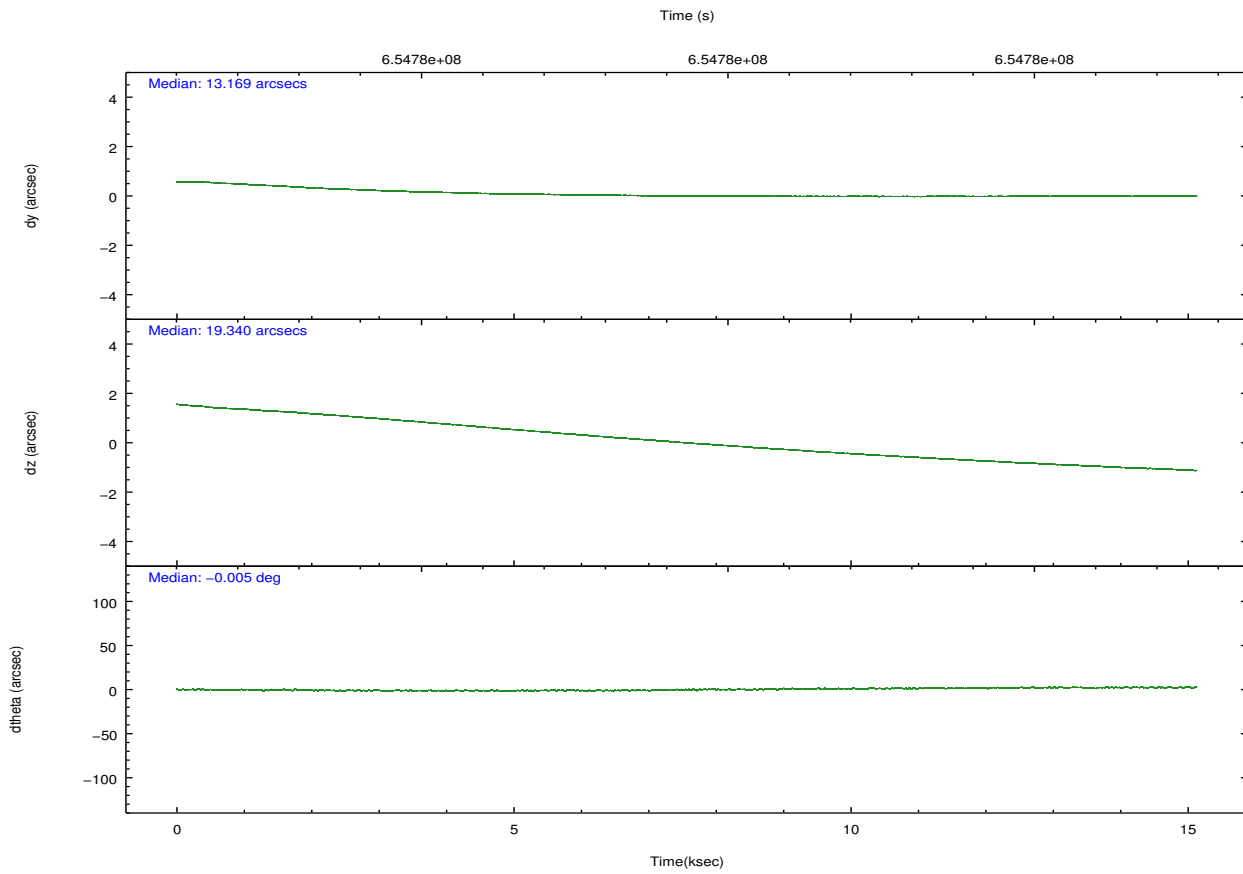
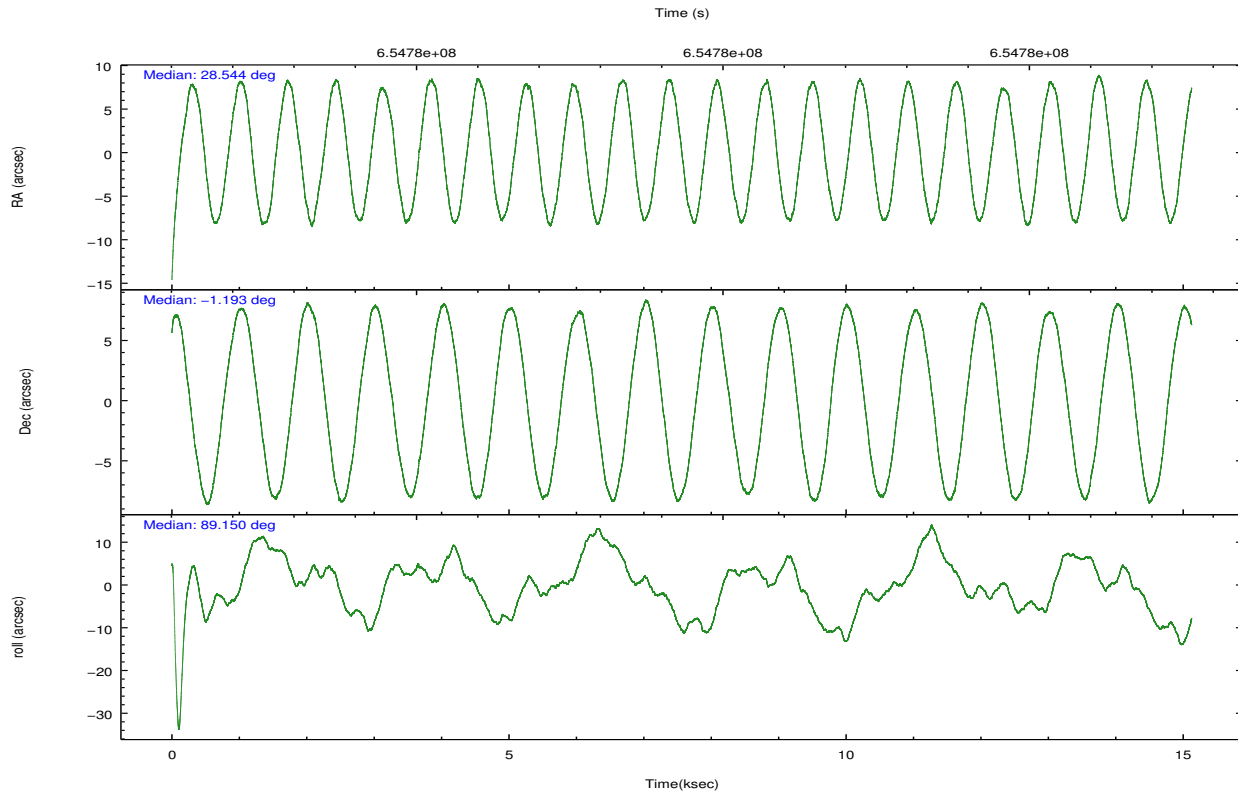
	ccd 6	ccd 7	ccd 8
grade 0 events	577	990	1572
	3%	4%	5%
grade 1 events	8	42	11
	0%	0%	0%
grade 2 events	391	2095	1442
	2%	10%	5%
grade 3 events	344	1144	760
	1%	5%	2%
grade 4 events	362	1062	698
	1%	5%	2%
grade 5 events	691	2152	1093
	3%	10%	3%
grade 6 events	427	4445	2190
	2%	21%	7%
grade 7 events	15781	8294	20921
	84%	41%	72%

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	28.558159	28.54445709903181	CCD I2 on	O1	N
[deg] Pointing Dec	-1.217162	-1.193362080101183	CCD I3 on	O2	N
[deg] Pointing Roll	89.000200	89.15658104817182	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	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	654771913.184000	654770539.1233	CCD S5 on	N	N
Observation start date	2018-10-01T09:04:04	2018-10-01T08:42:19	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	654786913.184000	654787790.89932	On-chip summing requested	N	N
Observation end date	2018-10-01T13:14:04	2018-10-01T13:29:50	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	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



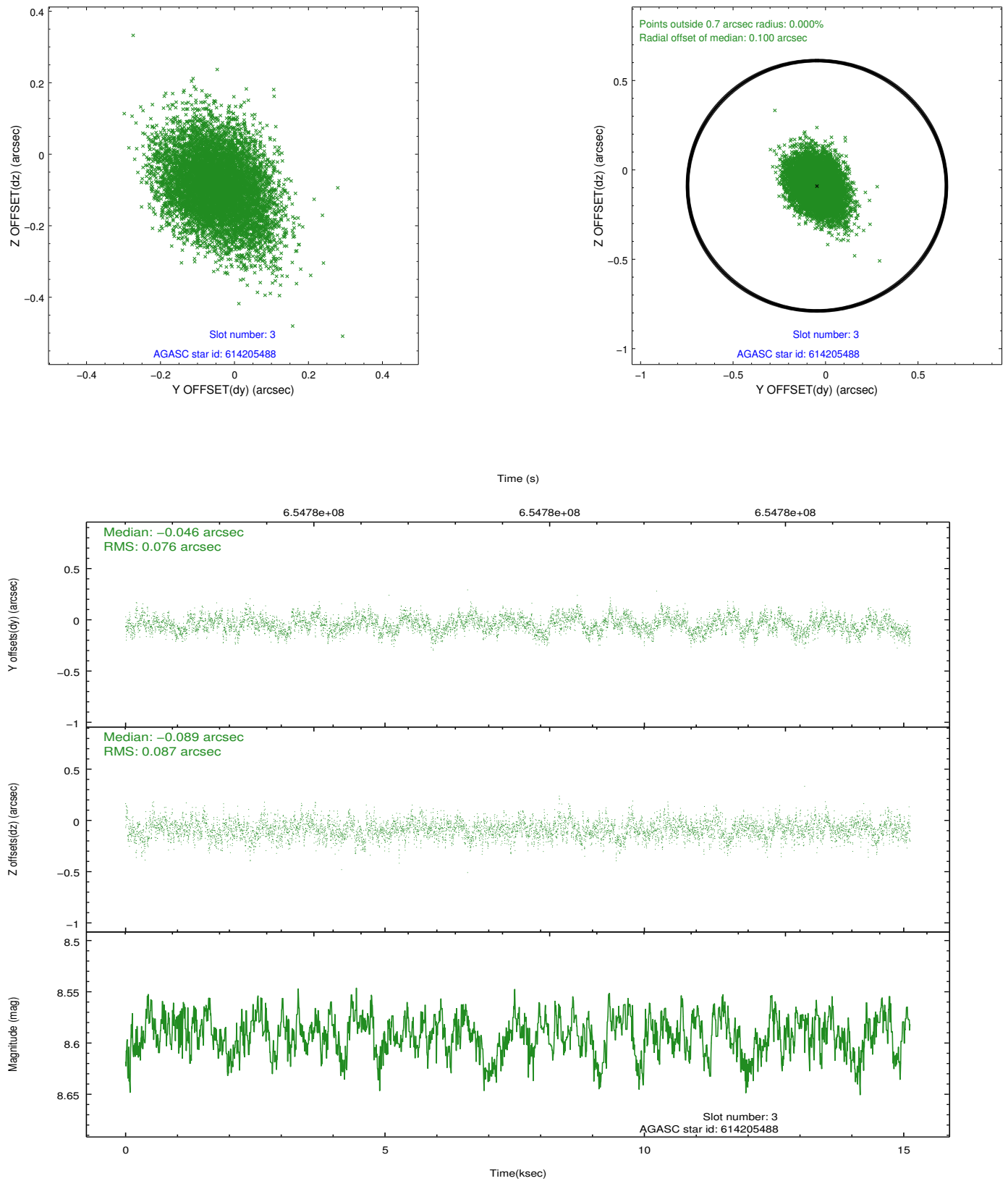


Slot Statistics

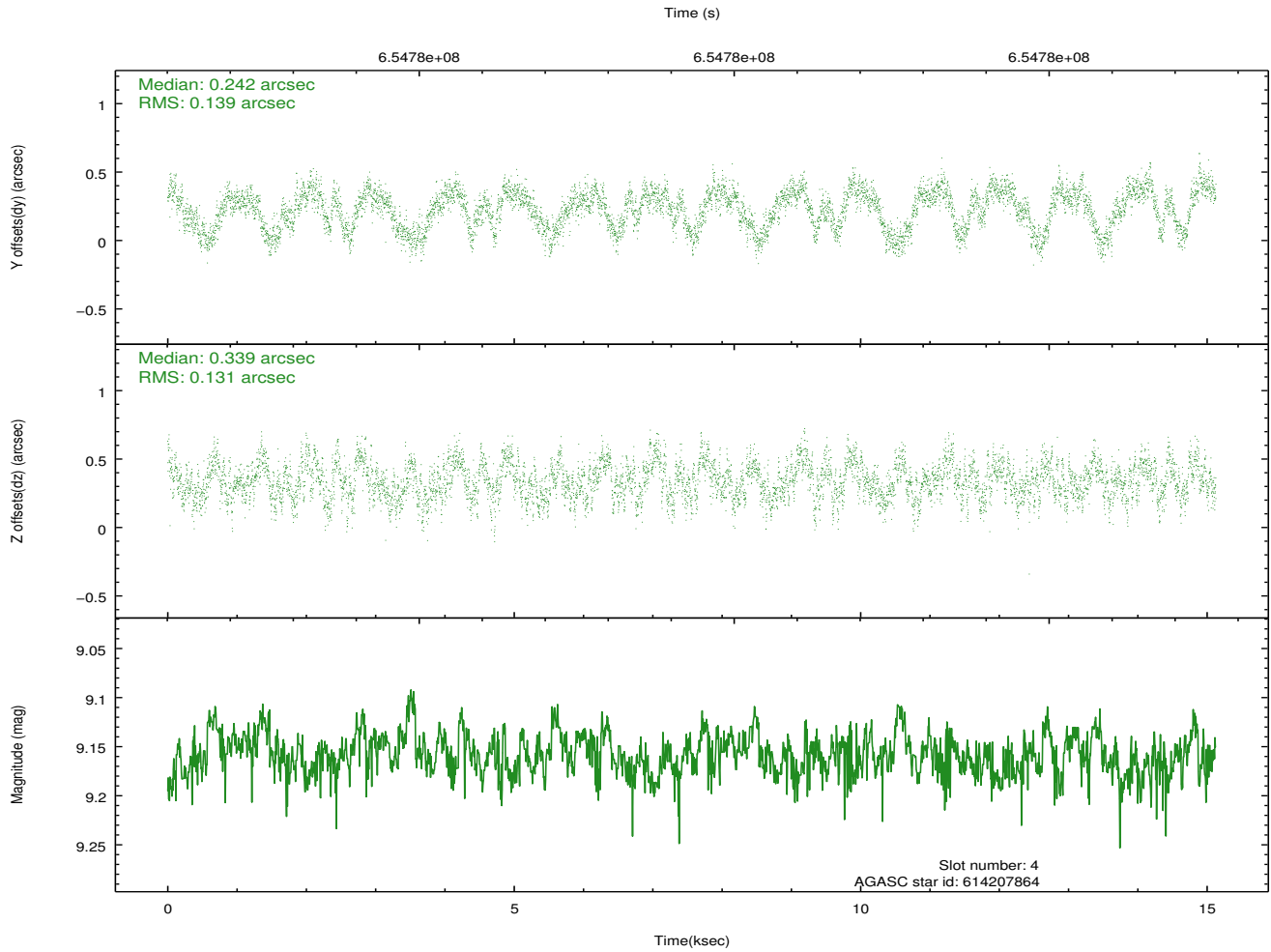
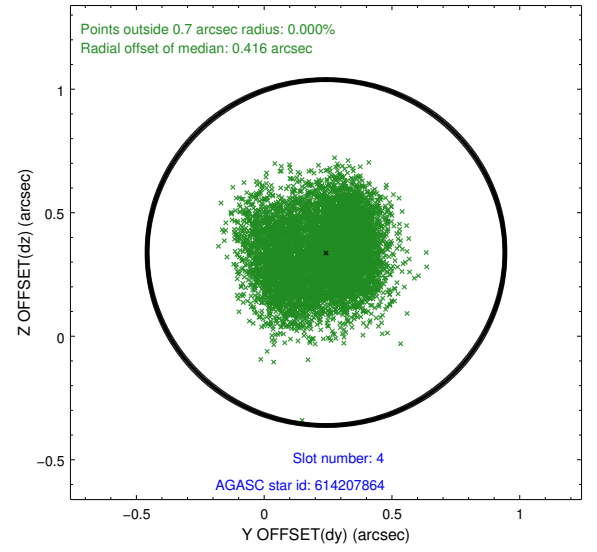
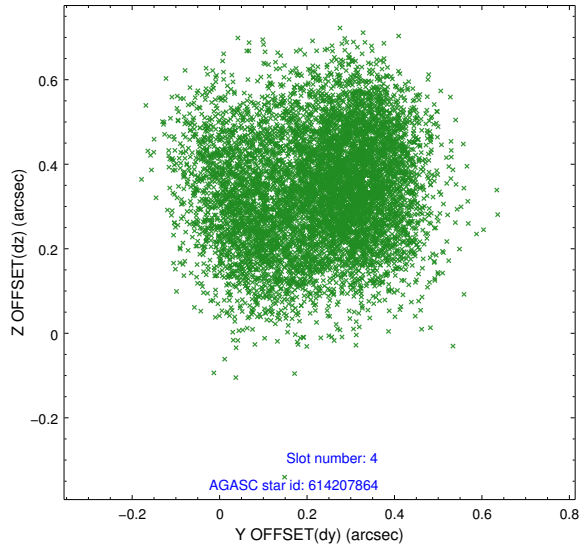
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	3689	1.000	-0.151	-0.061	0.034	0.042	0.000000	0.000000	-766.31	-1740
1	FID		ACIS-S-4	7.12	3690	1.000	0.413	0.090	0.012	0.029	0.000000	0.000000	2147.37	167
2	FID		ACIS-S-5	7.11	3689	1.000	-0.293	-0.019	0.030	0.040	0.000000	0.000000	-1818.94	161
3	GUIDE	used	614205488	8.59	7376	1.000	-0.046	-0.089	0.122	0.198	28.197337	-1.380863	-612.35	1287
4	GUIDE	used	614207864	9.16	7373	1.000	0.242	0.339	0.209	0.316	28.712661	-1.490899	-975.98	-572
5	GUIDE	used	614208008	9.79	7370	1.000	-0.192	-0.122	0.188	0.303	28.174167	-0.634163	2073.77	1419
6	GUIDE	used	614208136	9.02	7373	1.000	0.131	-0.023	0.159	0.246	28.292988	-1.519081	-1102.92	935
7	GUIDE	used	614215696	7.48	7377	1.000	-0.120	-0.110	0.133	0.225	28.275831	-1.326947	-419.86	1012

2.4 Star Slots

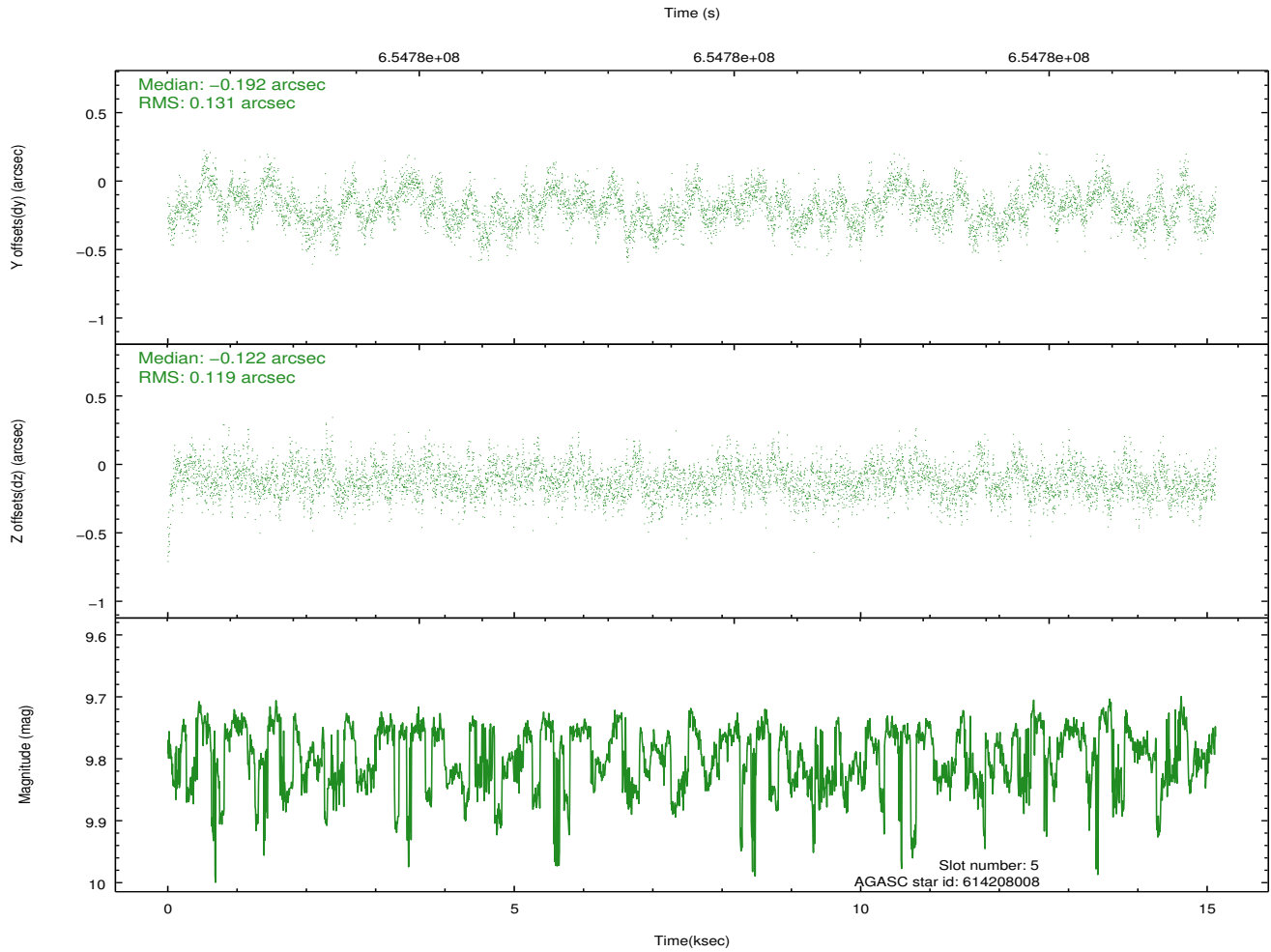
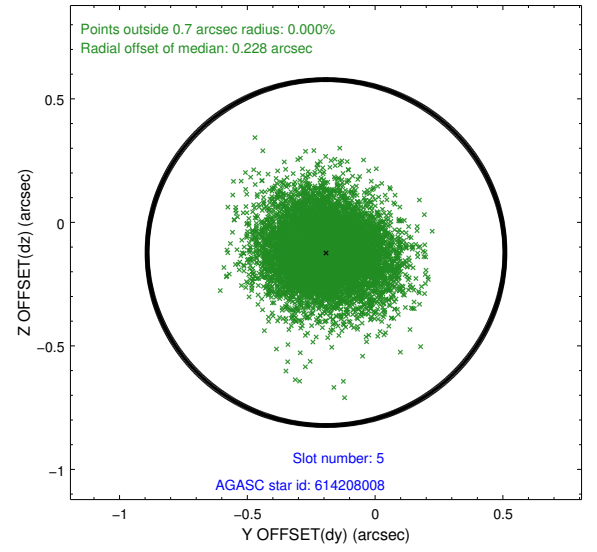
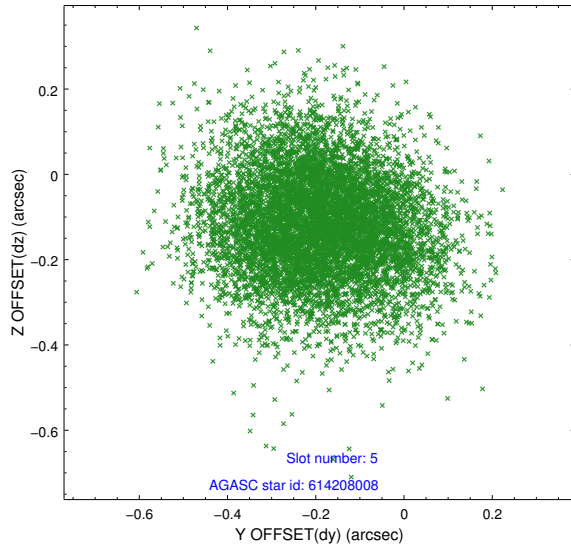
2.4.1 Slot 3



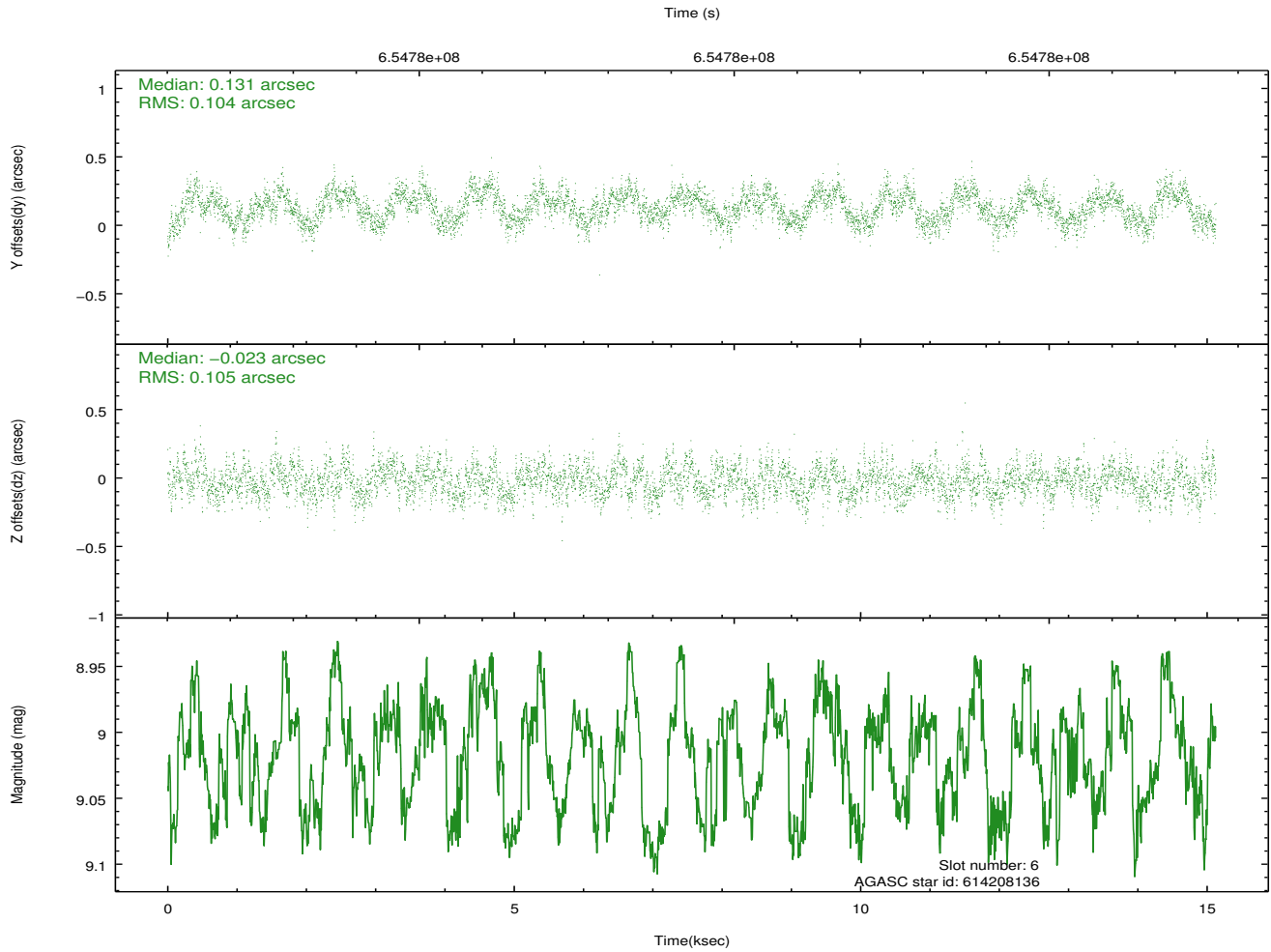
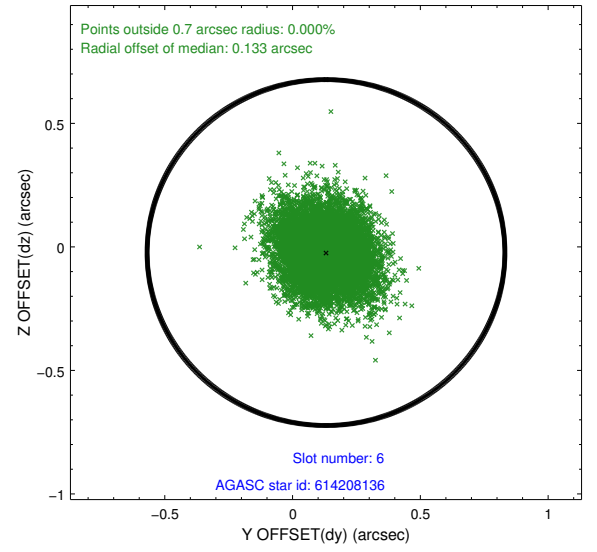
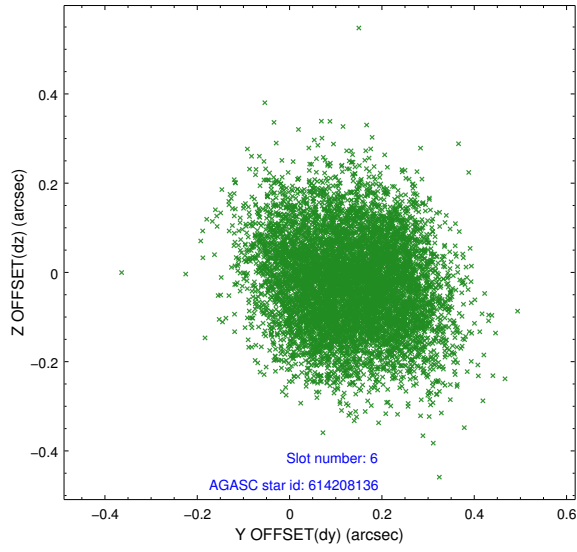
2.4.2 Slot 4



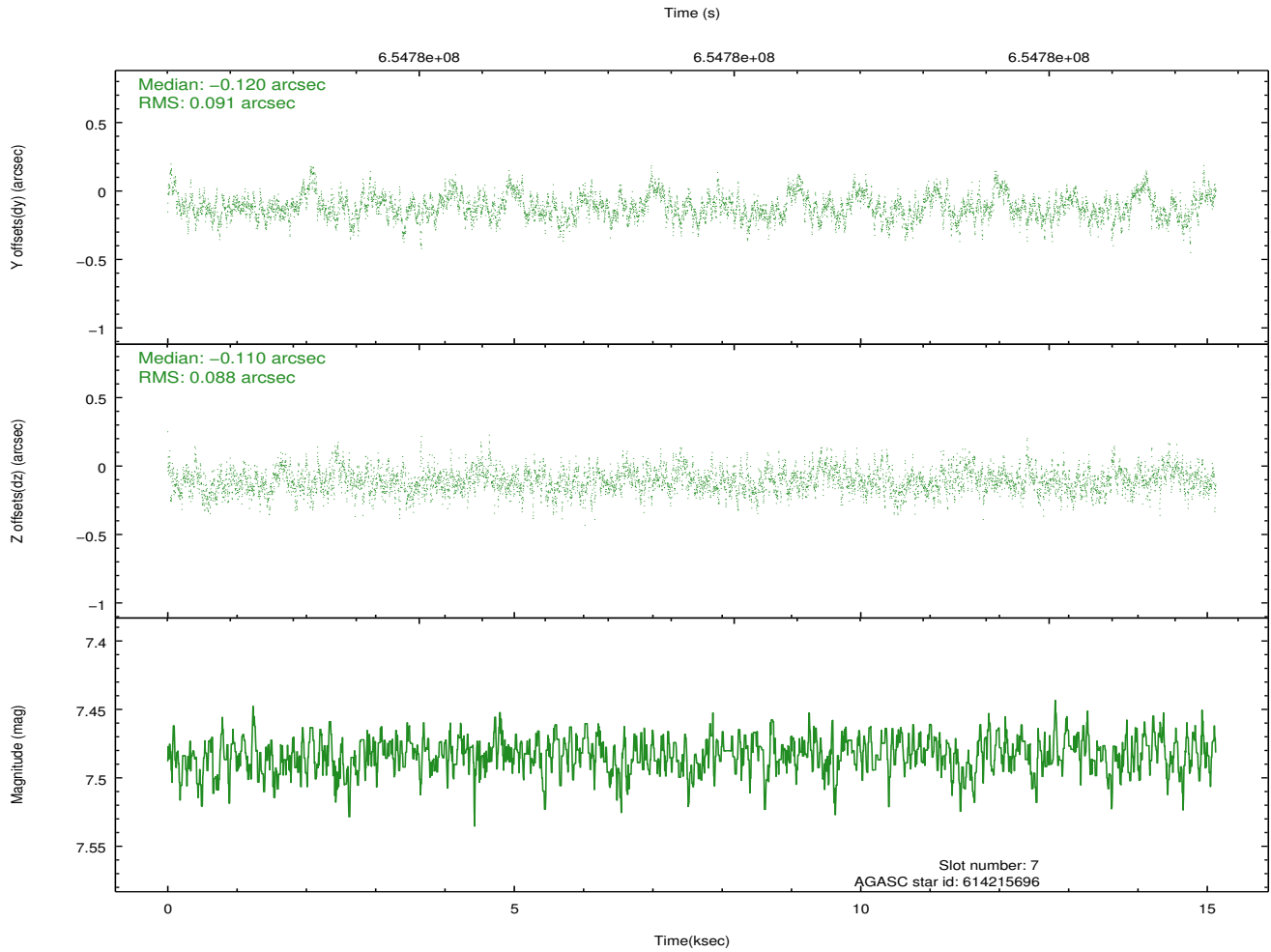
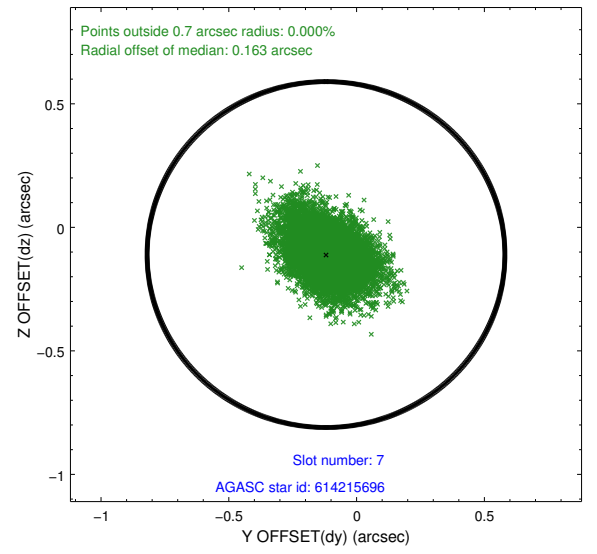
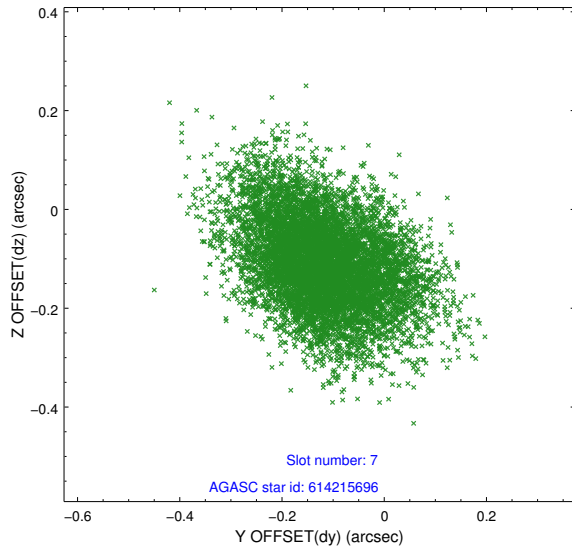
2.4.3 Slot 5



2.4.4 Slot 6

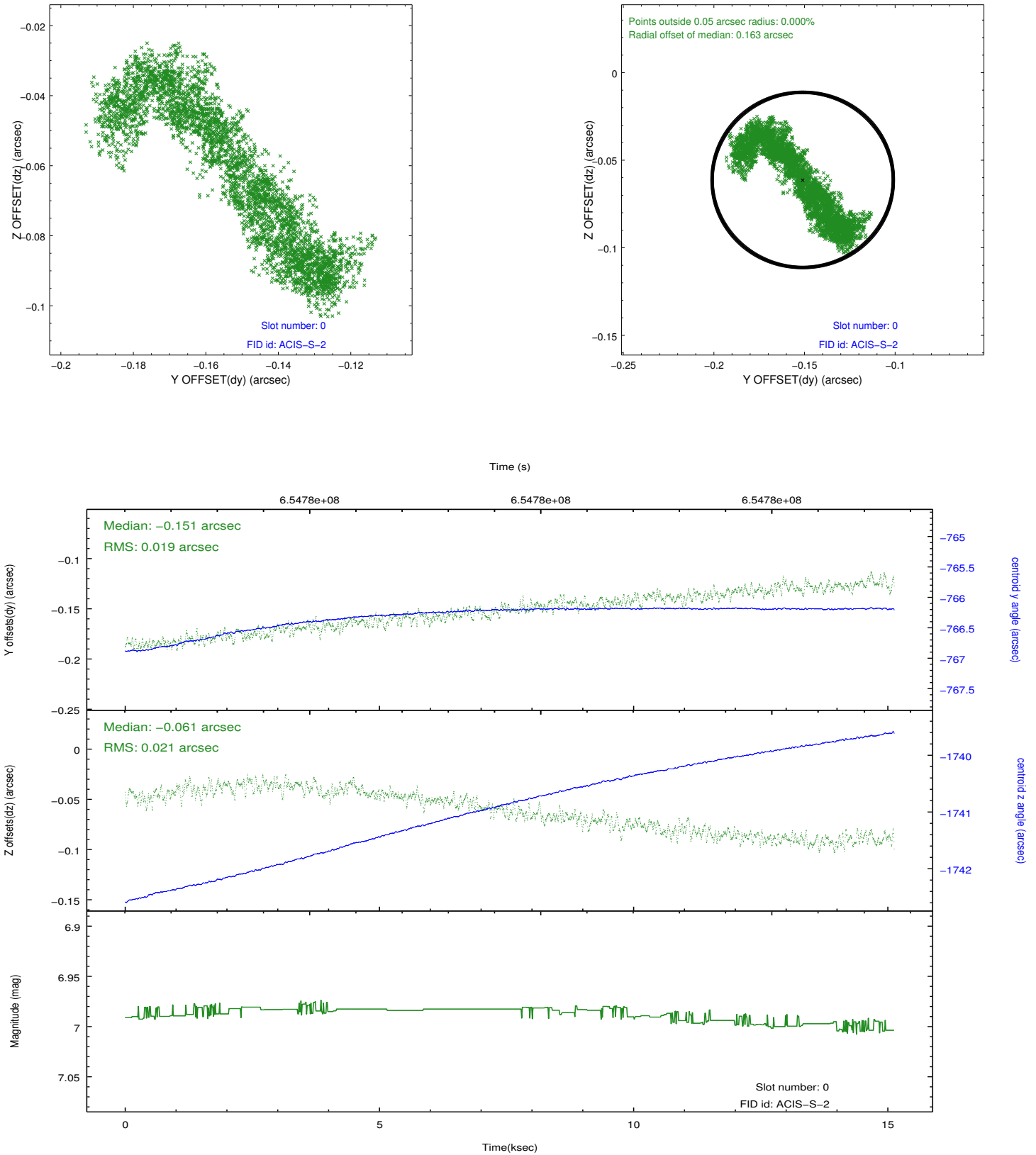


2.4.5 Slot 7

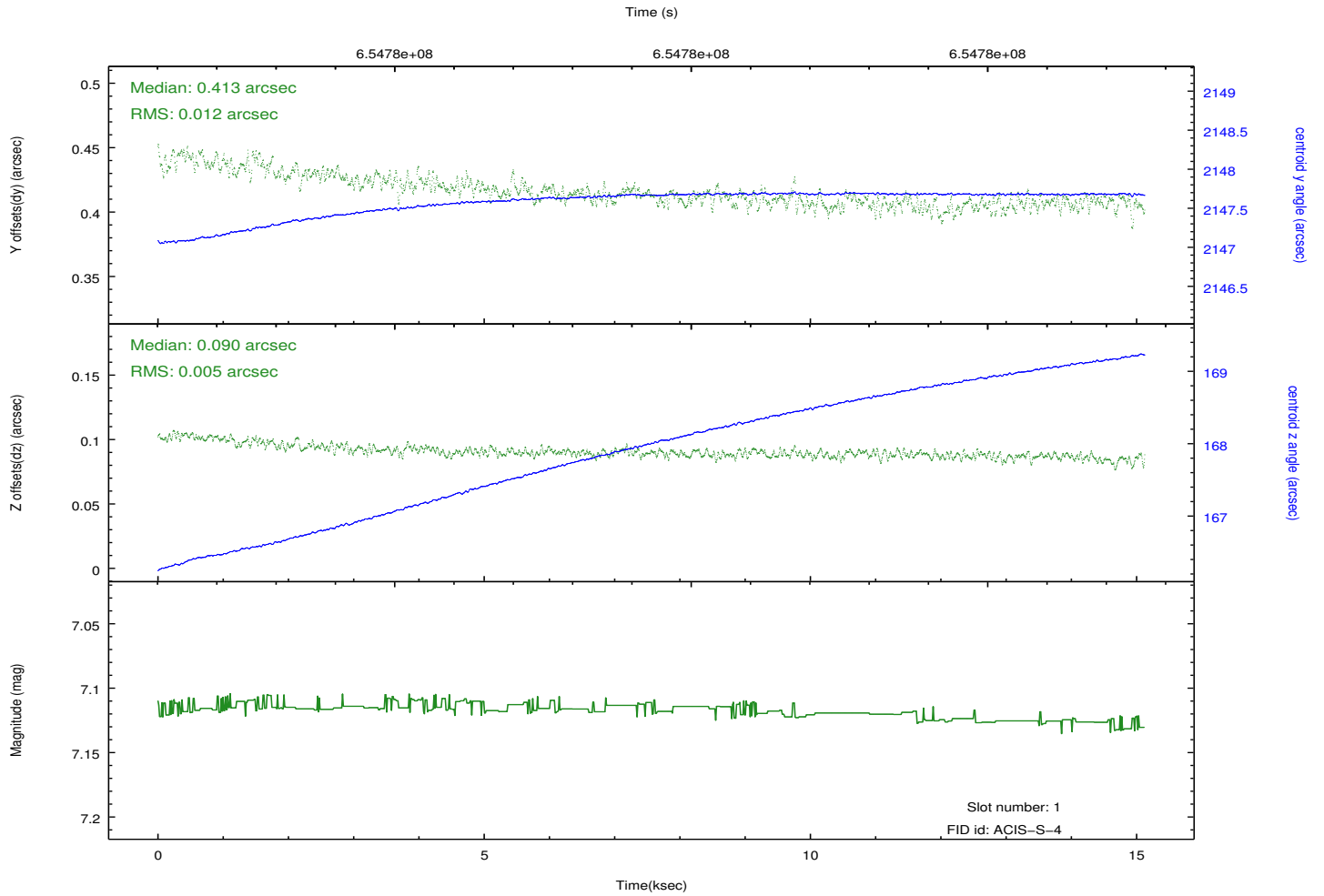
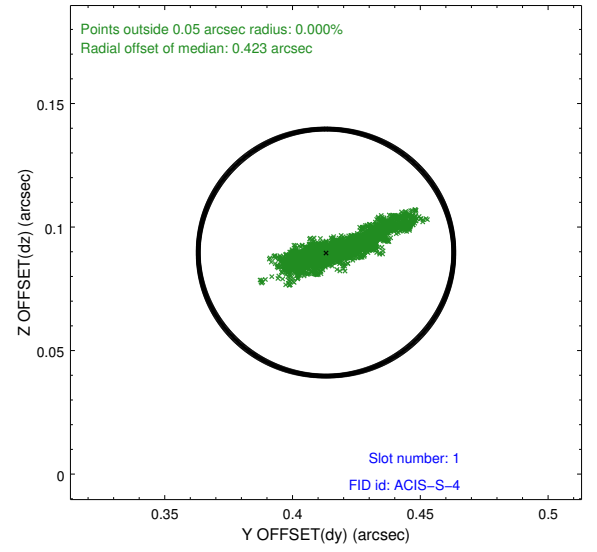
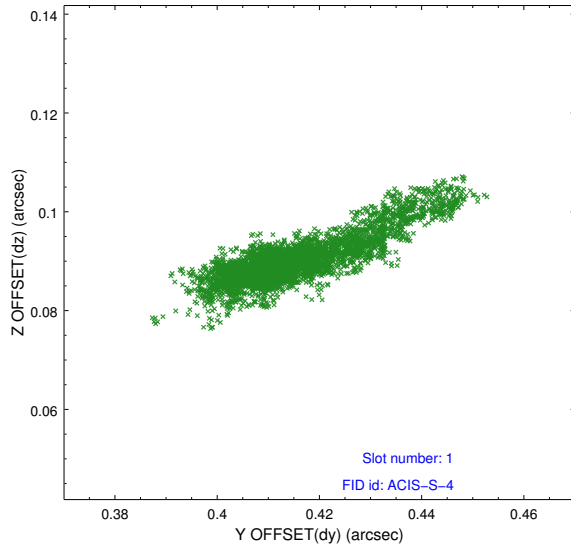


2.5 FID Slots

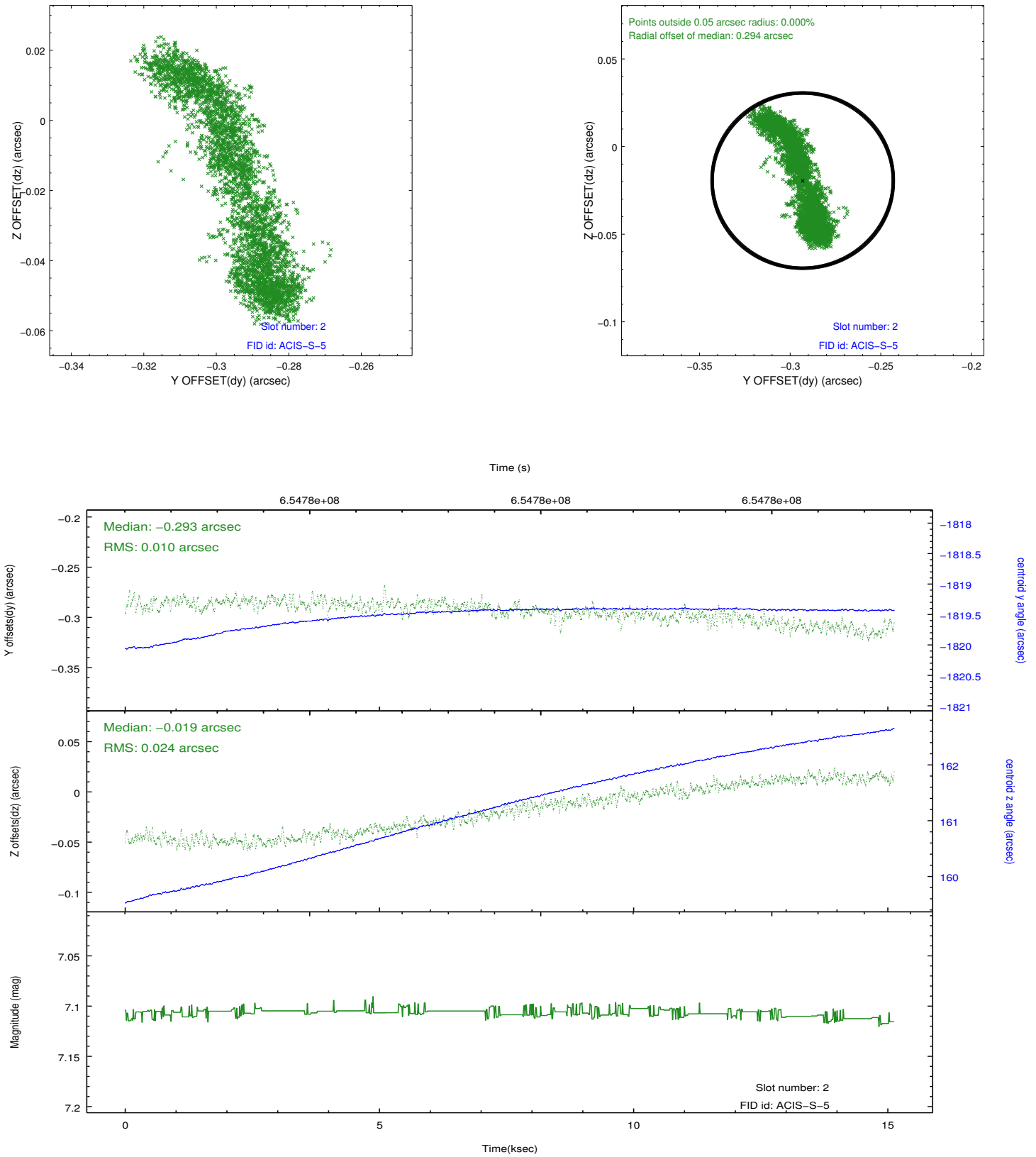
2.5.1 Slot 0



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)	2018.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.10380060029

A.2 Comments

Optional chips I2 and I3 not included.