

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16956 - L2 Version 1
Chandra X-Ray Center

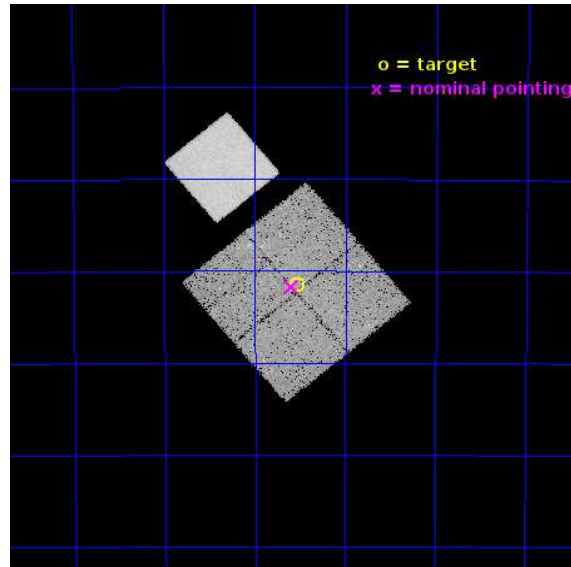
L2 Processing Date : Jun 19 2015

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1 Front

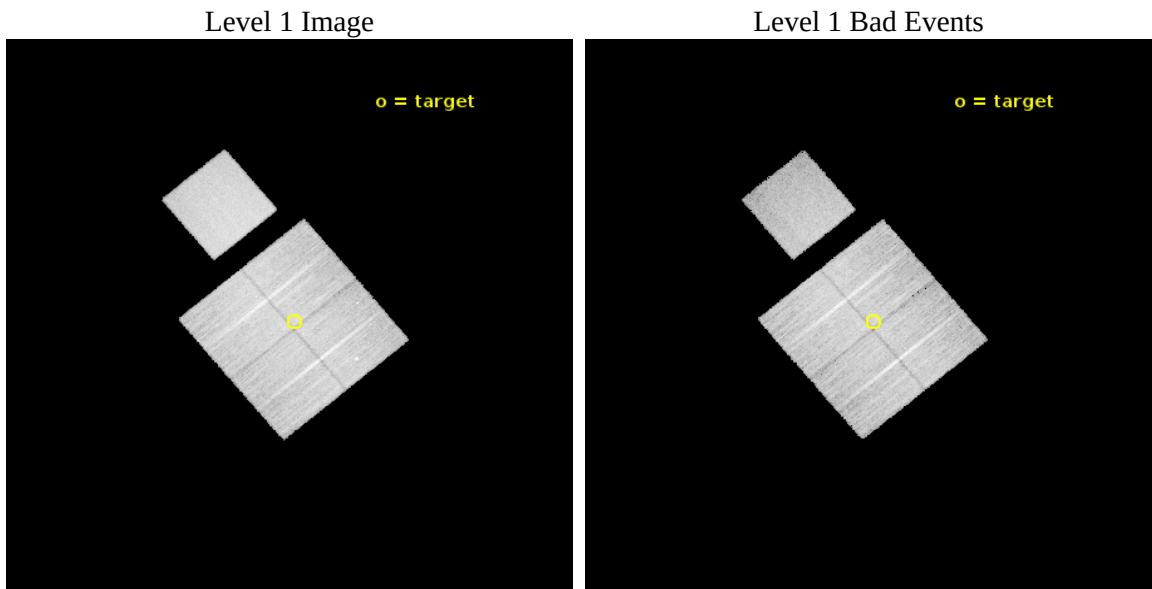
seq_num	502472	Sequence number
obs_id	16956	Observation id
title	X-RAY COUNTERPARTS OF PUZZLING GEV-TEV SOURCES	Proposal title
observer	Oleg Kargaltsev	Principal investigator
object	HESS J1616-508	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.134471	Observer's specified target RA [deg]
dec_targ	-50.858358	Observer's specified target Dec [deg]
ra_nom	244.1493679238	Nominal RA [deg]
dec_nom	-50.861895799525	Nominal Dec [deg]
roll_nom	320.22025298565	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25063.500192881	Sum of GTIs [s]
livetime	24736.02711138	Livetime [s]
ontime0	25063.500192881	Sum of GTIs [s]
ontime1	25063.500192881	Sum of GTIs [s]
ontime2	25063.500192881	Sum of GTIs [s]
ontime3	25063.500192881	Sum of GTIs [s]
ontime7	25063.500192881	Sum of GTIs [s]
l2events	126834	Number of level 2 events



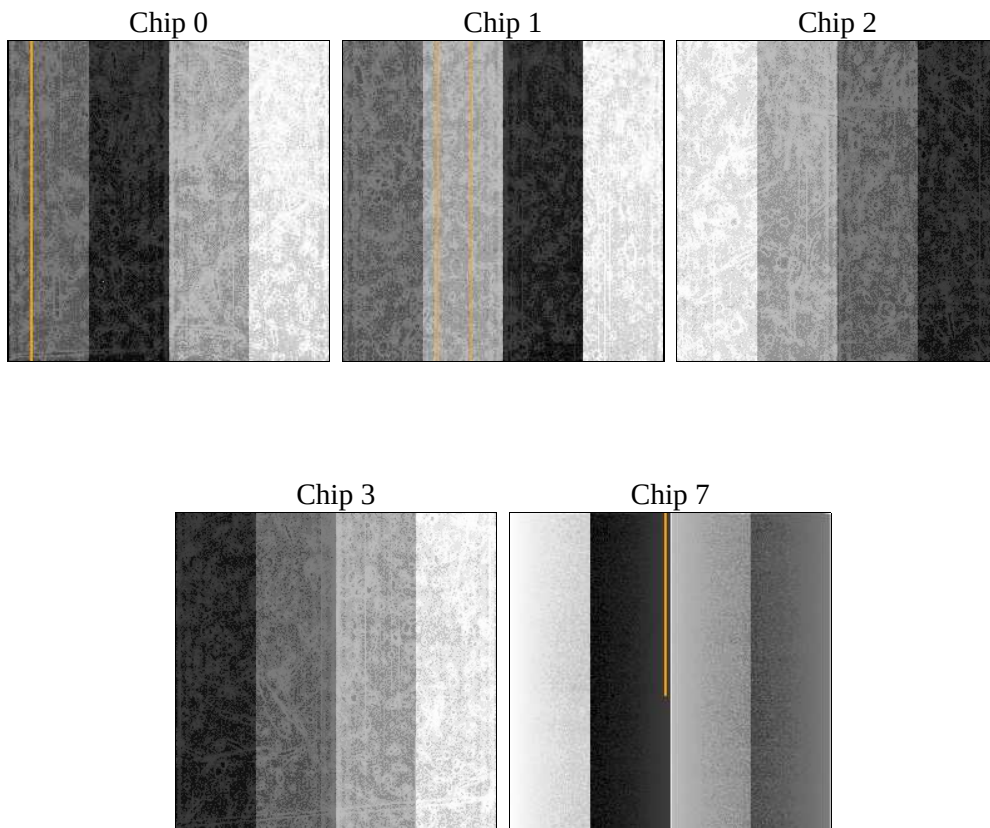
2 OBI

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	Processing system revision	ontime	25063.500192881	Sum of GTIs [s]
caldbver	4.6.7	 	ontime0	25063.500192881	Sum of GTIs [s]
date	2015-06-19T03:57:28	Date and time of file creation	ontime1	25063.500192881	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25063.500192881	Sum of GTIs [s]
			ontime3	25063.500192881	Sum of GTIs [s]
			ontime7	25063.500192881	Sum of GTIs [s]
			l1events	644102	Number of level 1 events

2.1.4 Events

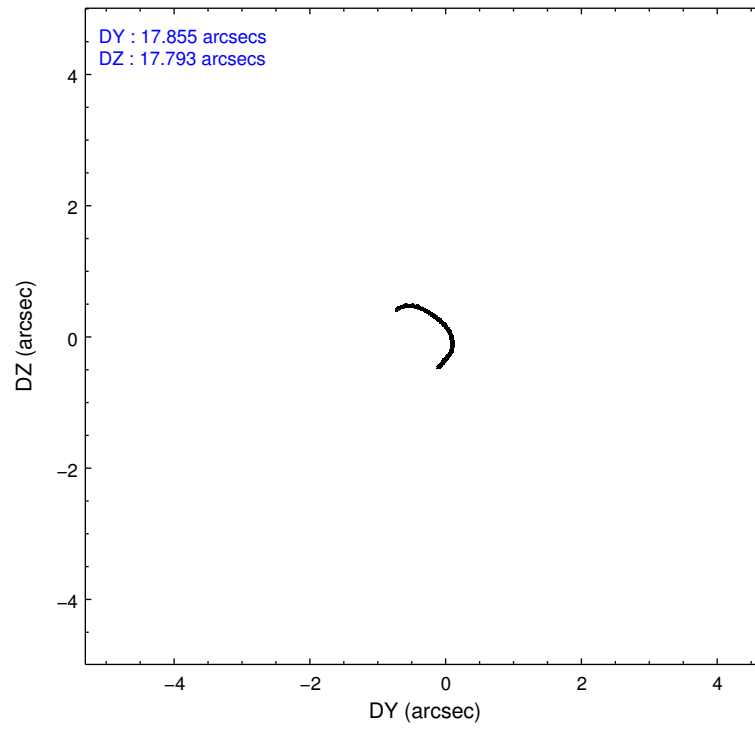
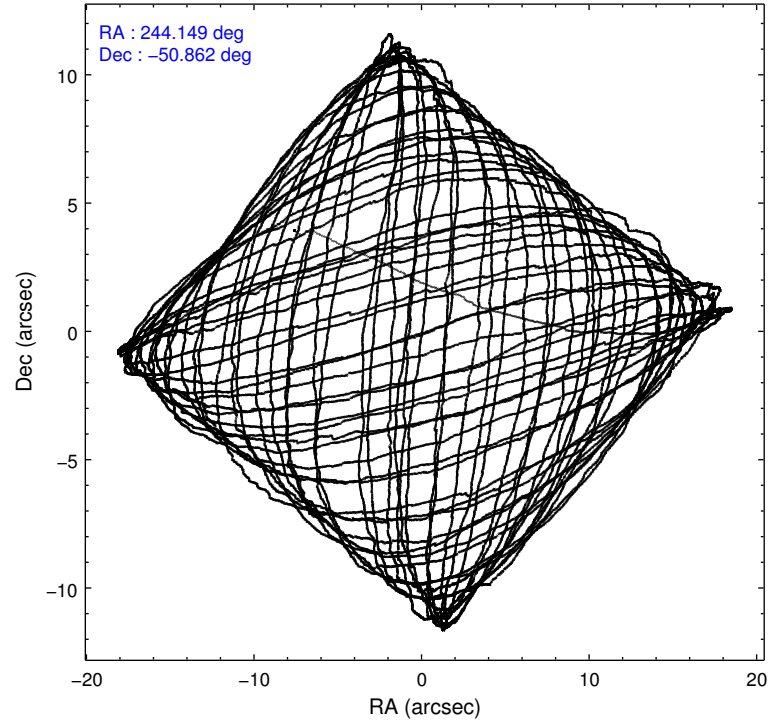
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	118474	120280	136570	123455	145323
rejected events	99825	101764	117762	107007	75961
rejected %	84%	84%	86%	86%	52%

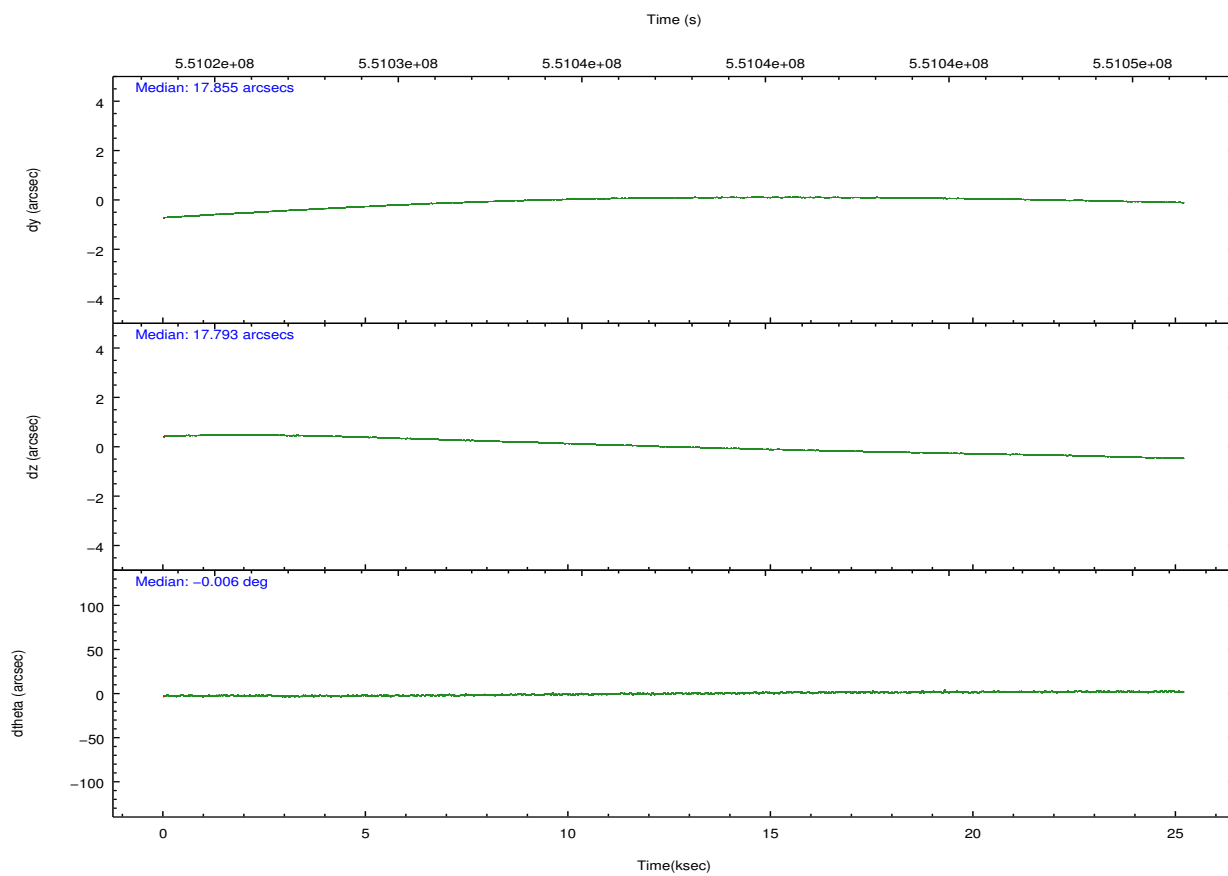
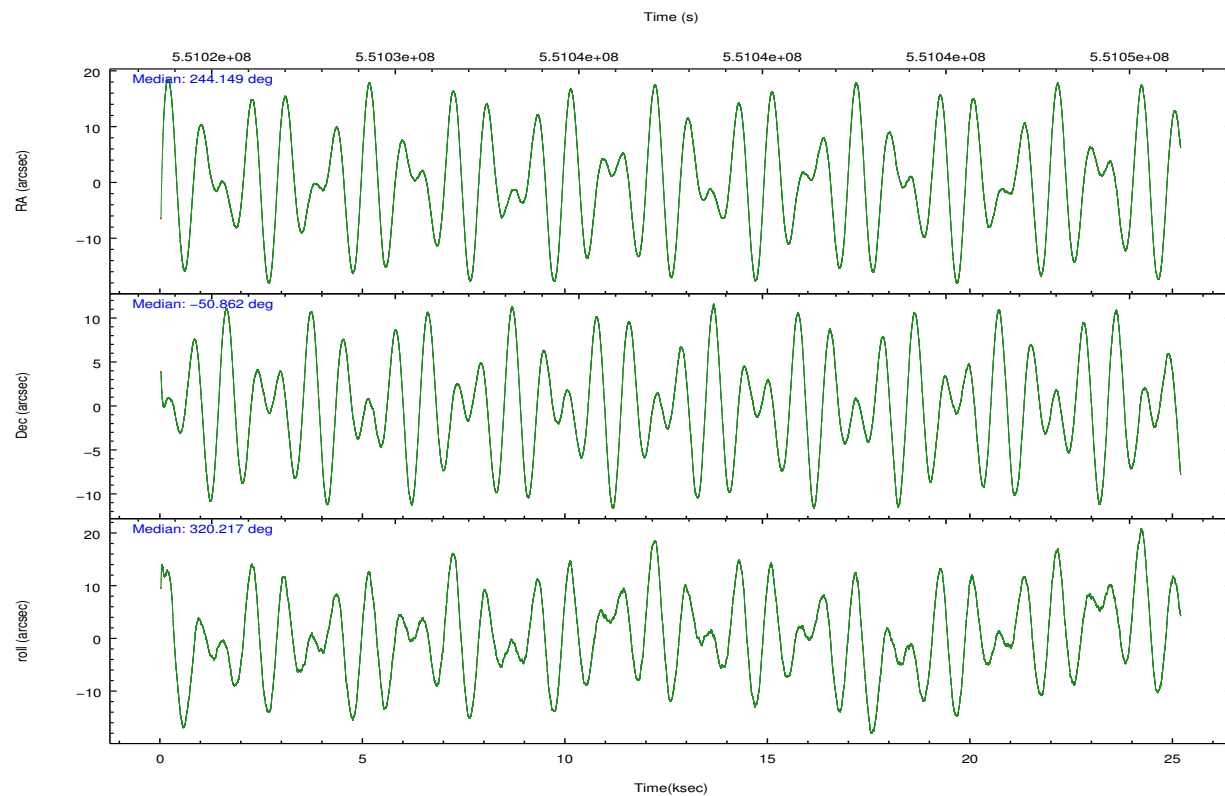
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	8392	7847	8650	7146	6970
	7%	6%	6%	5%	4%
grade 1 events	78	71	85	80	245
	0%	0%	0%	0%	0%
grade 2 events	4297	4006	4284	3446	15425
	3%	3%	3%	2%	10%
grade 3 events	1571	1648	1410	1529	6059
	1%	1%	1%	1%	4%
grade 4 events	1496	1624	1721	1524	5959
	1%	1%	1%	1%	4%
grade 5 events	4552	4981	4268	5426	14887
	3%	4%	3%	4%	10%
grade 6 events	2893	3393	2745	2803	34957
	2%	2%	2%	2%	24%
grade 7 events	95195	96710	113407	101501	60821
	80%	80%	83%	82%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	244.106218	244.1493679237959	CCD I2 on	Y	Y
[deg] Pointing Dec	-50.857314	-50.86189579952548	CCD I3 on	Y	Y
[deg] Pointing Roll	319.978092	320.2202529856486	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	551025099.184000	551023971.46738	CCD S5 on	N	N
Observation start date	2015-06-18T14:30:32	2015-06-18T14:12:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	551050099.184000	551050862.34389	On-chip summing requested	N	N
Observation end date	2015-06-18T21:27:12	2015-06-18T21:41:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



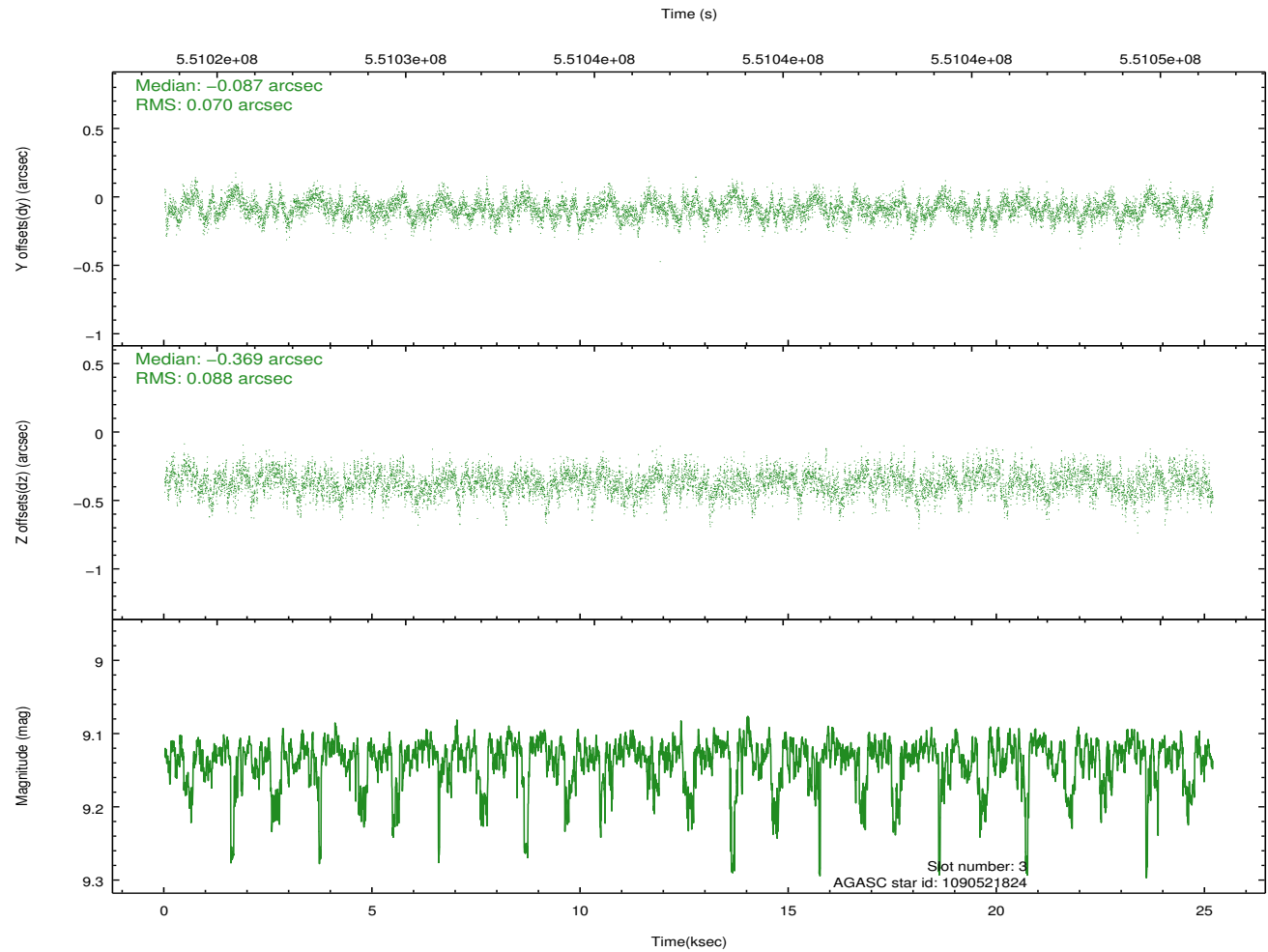
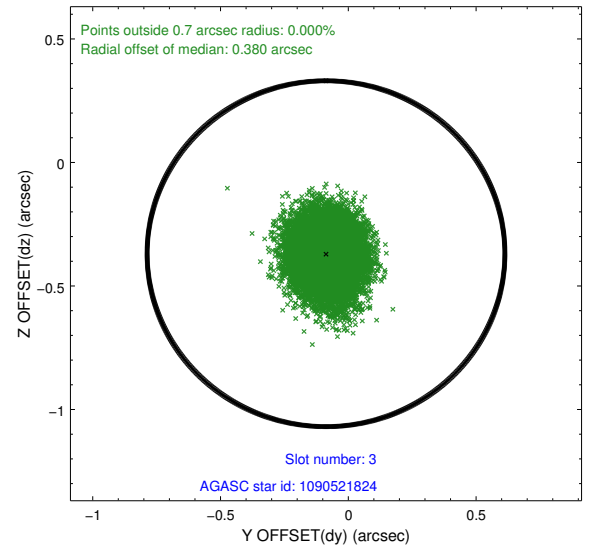
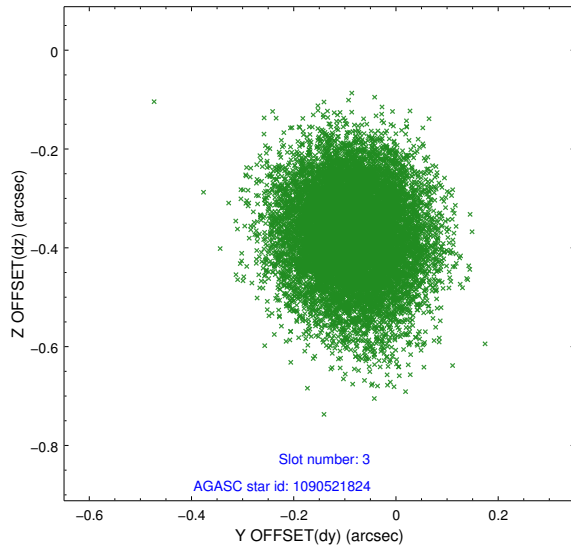


Slot Statistics

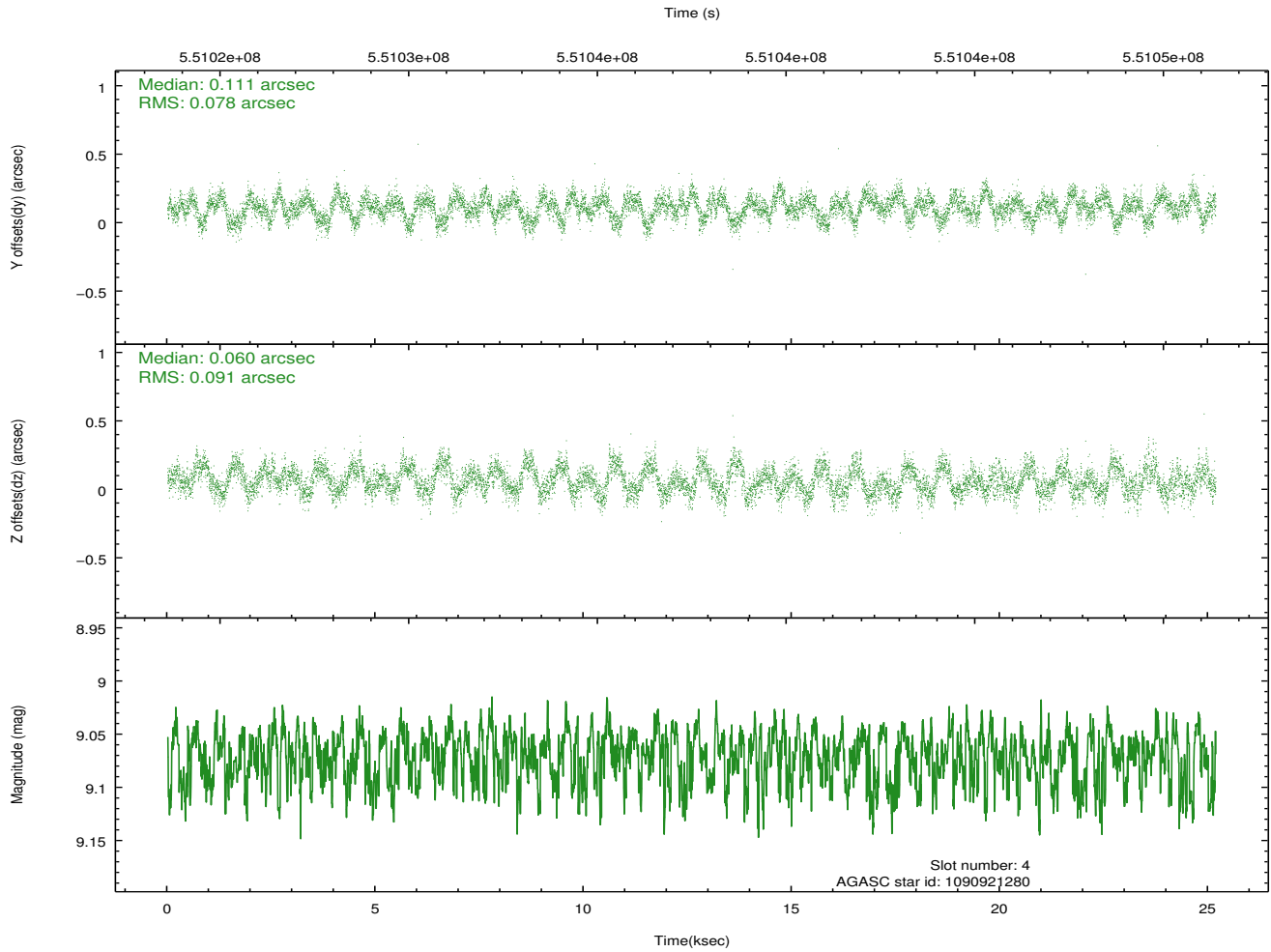
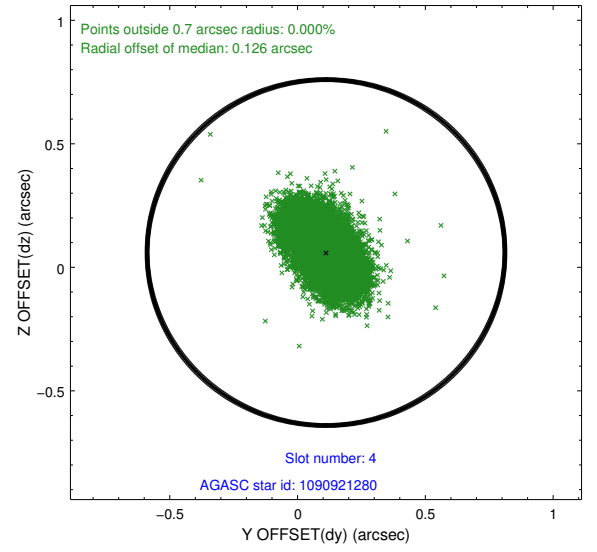
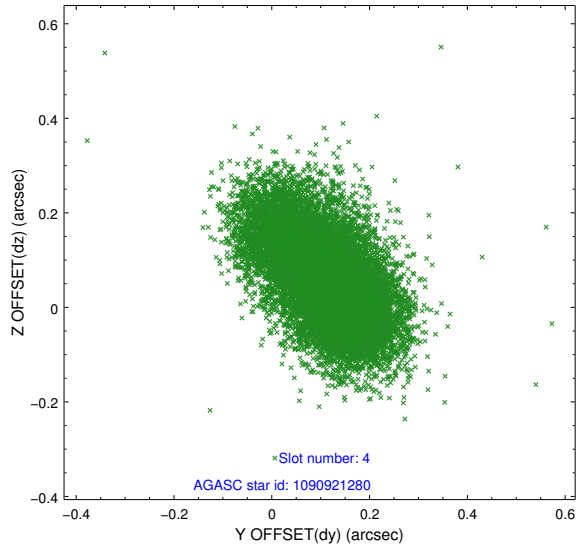
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	6139	0.108	-0.037	0.018	0.030	0.000000	0.000000	921.79	-841.46
1	FID		ACIS-I-2	7.03	6142	-0.046	-0.038	0.011	0.020	0.000000	0.000000	-772.39	-848.08
2	FID		ACIS-I-5	7.11	6142	-0.154	0.148	0.023	0.036	0.000000	0.000000	-1826.93	1055.95
3	GUIDE	used	1090521824	9.13	12279	-0.087	-0.369	0.121	0.195	244.711253	-50.470098	169.00	1954.26
4	GUIDE	used	1090921280	9.07	12276	0.111	0.060	0.128	0.208	244.365071	-50.638328	-53.31	983.14
5	GUIDE	used	1090922592	8.67	12249	0.102	0.239	0.105	0.172	243.541382	-50.784876	-1143.94	-635.62
6	GUIDE	used	1090924384	8.04	12282	0.141	0.206	0.106	0.163	243.330505	-50.934017	-1164.12	-1350.82
7	GUIDE	used	1091059112	9.04	12274	-0.259	-0.146	0.107	0.179	245.180420	-50.736664	1606.14	1892.43

2.4 Star Slots

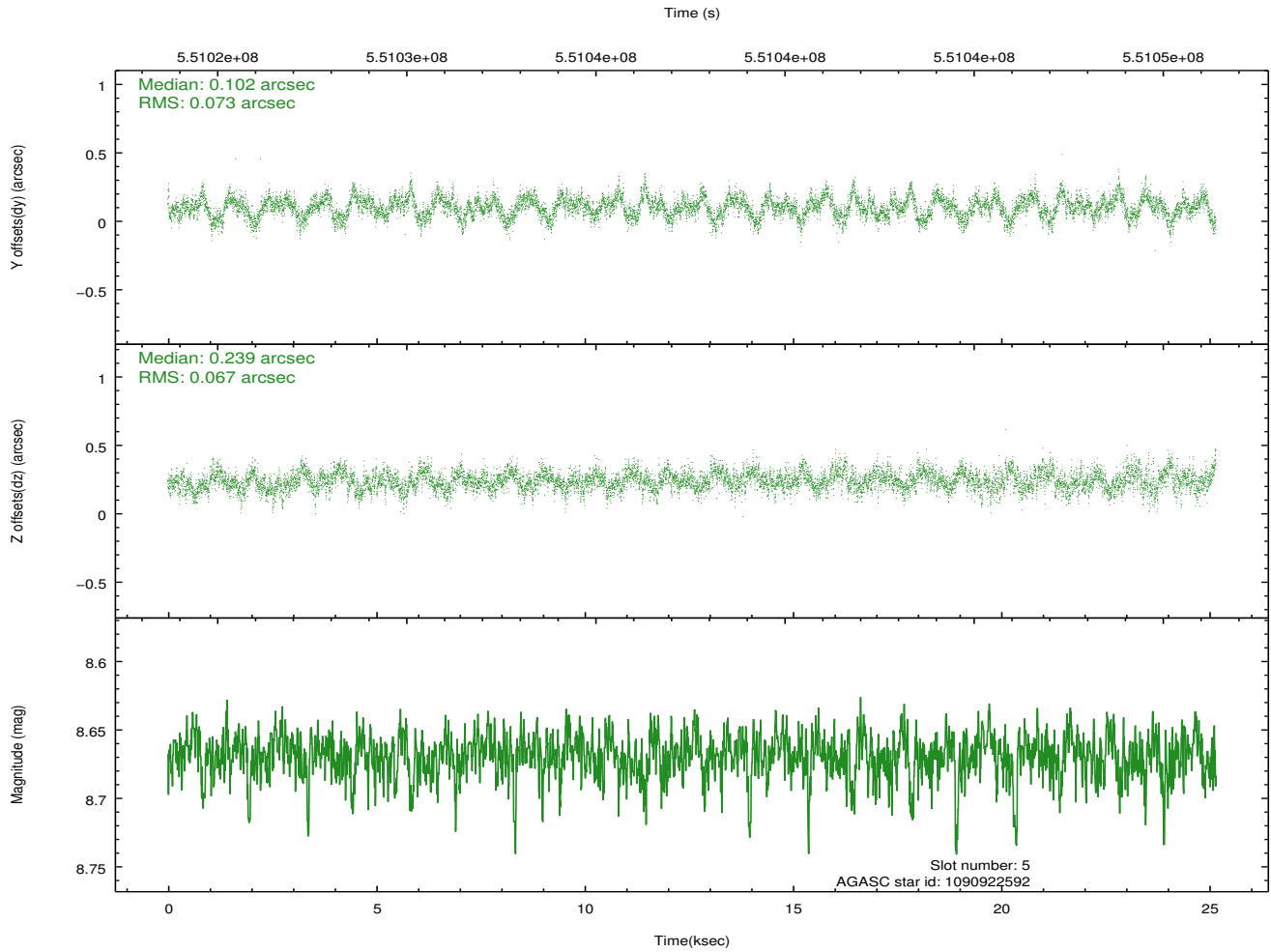
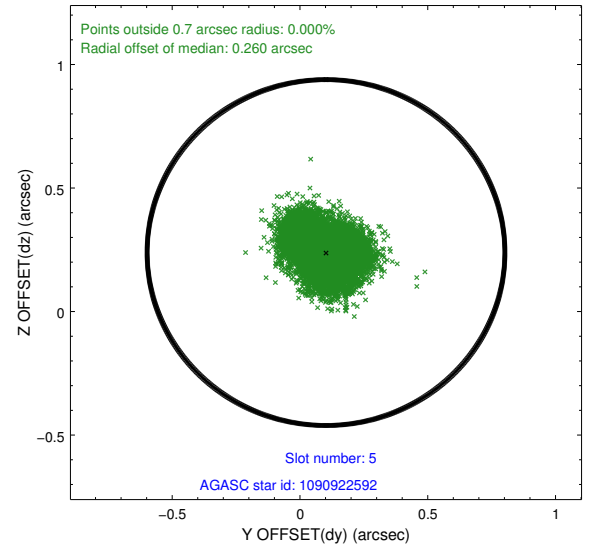
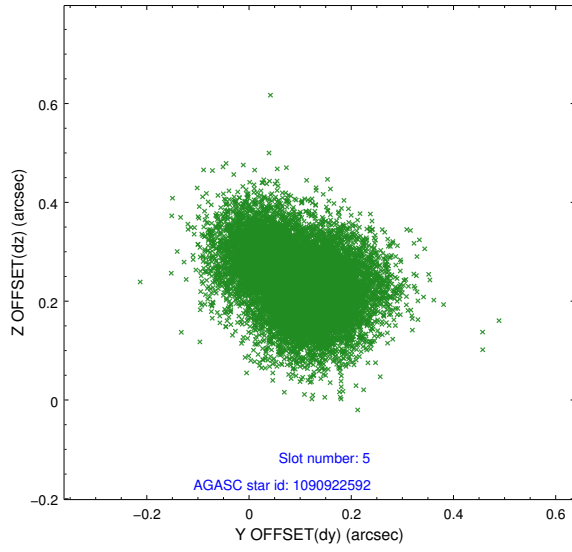
2.4.1 Slot 3



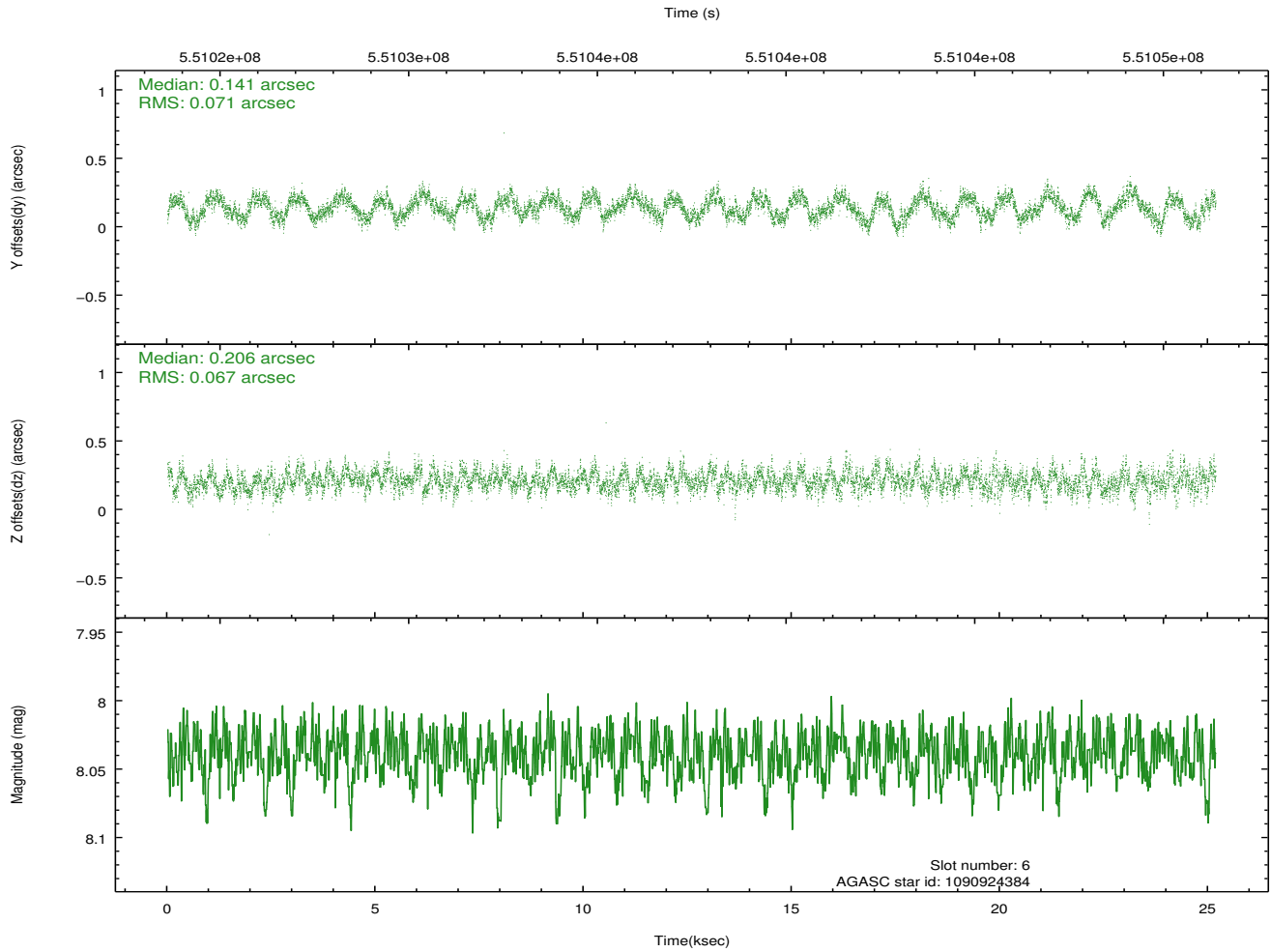
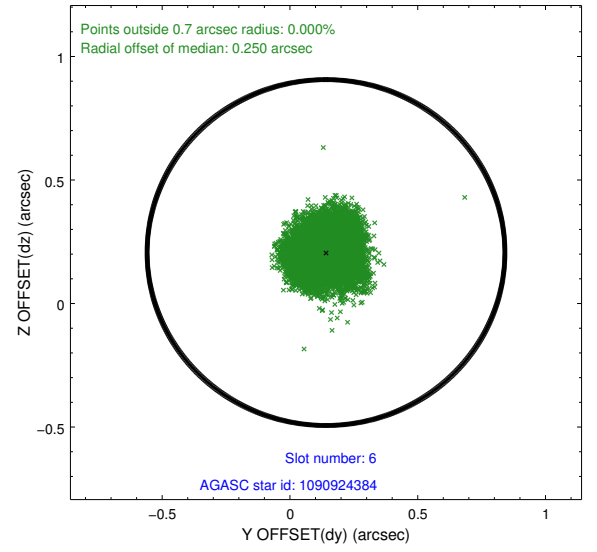
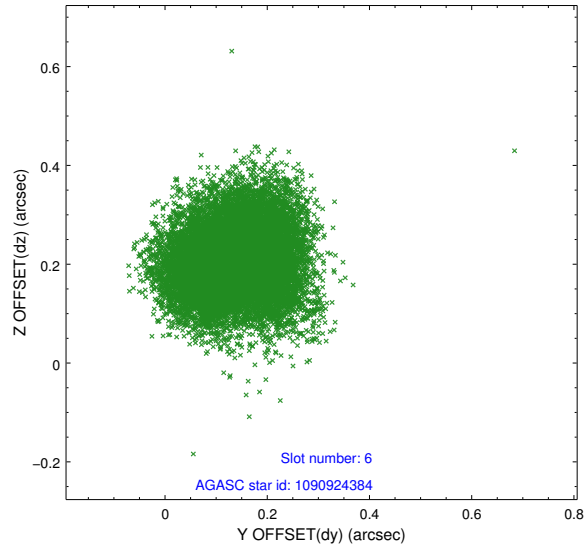
2.4.2 Slot 4



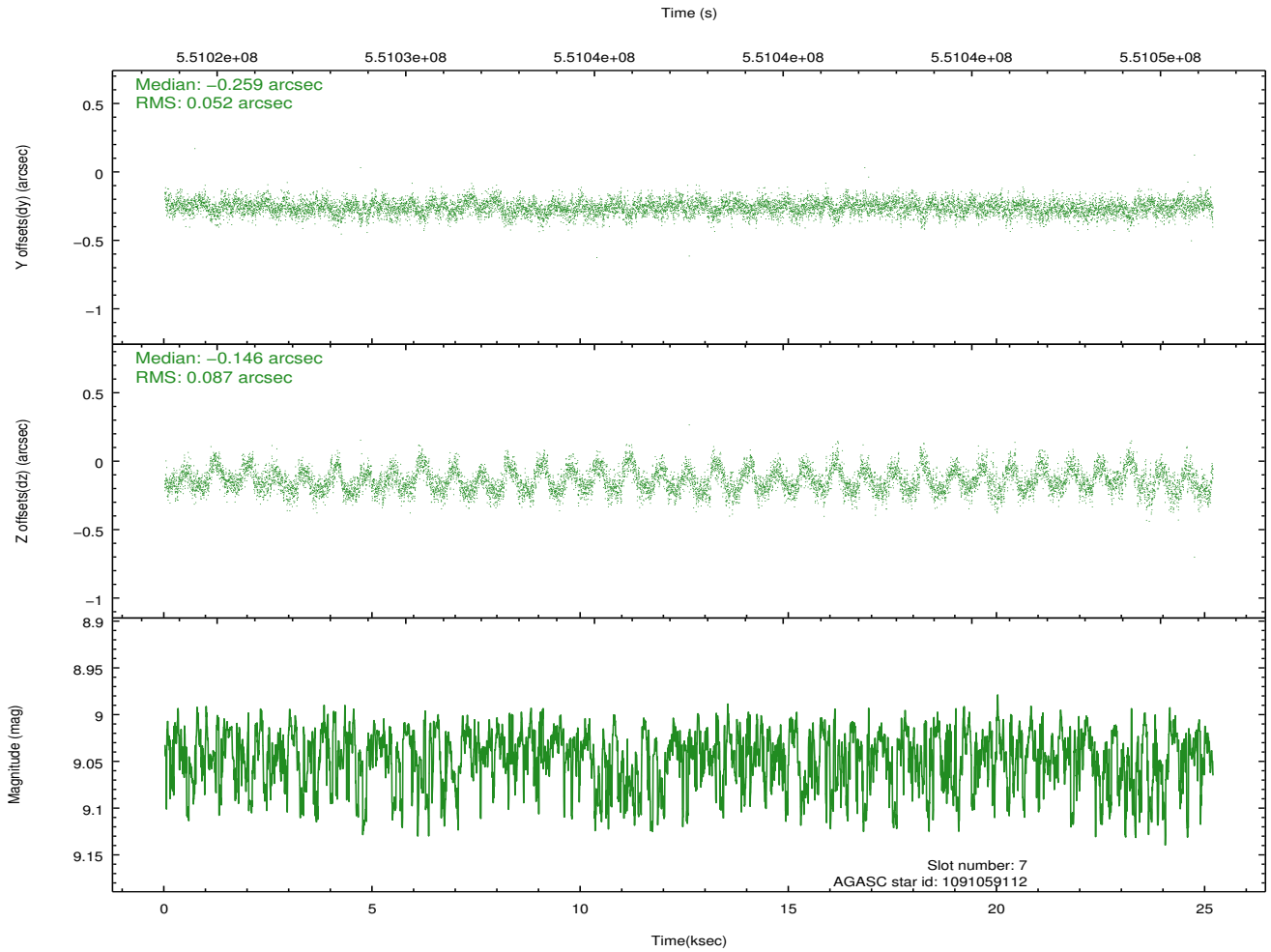
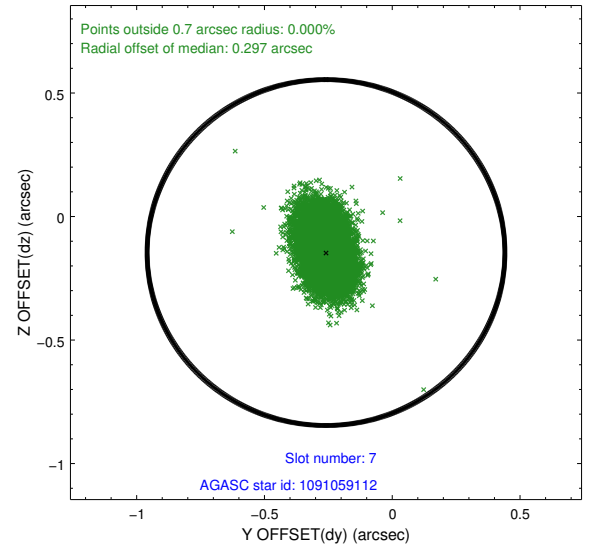
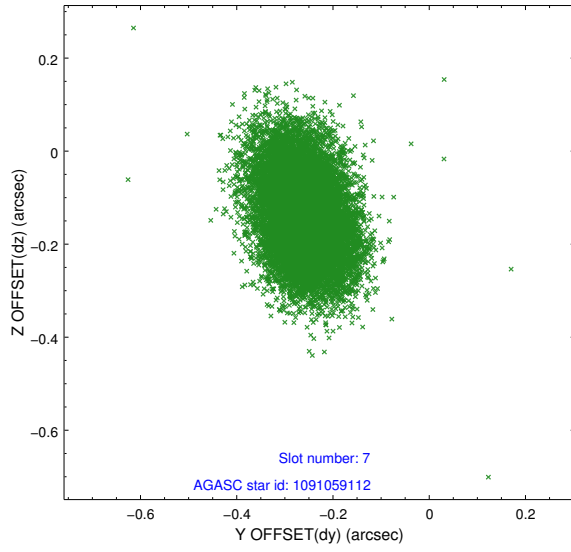
2.4.3 Slot 5



2.4.4 Slot 6

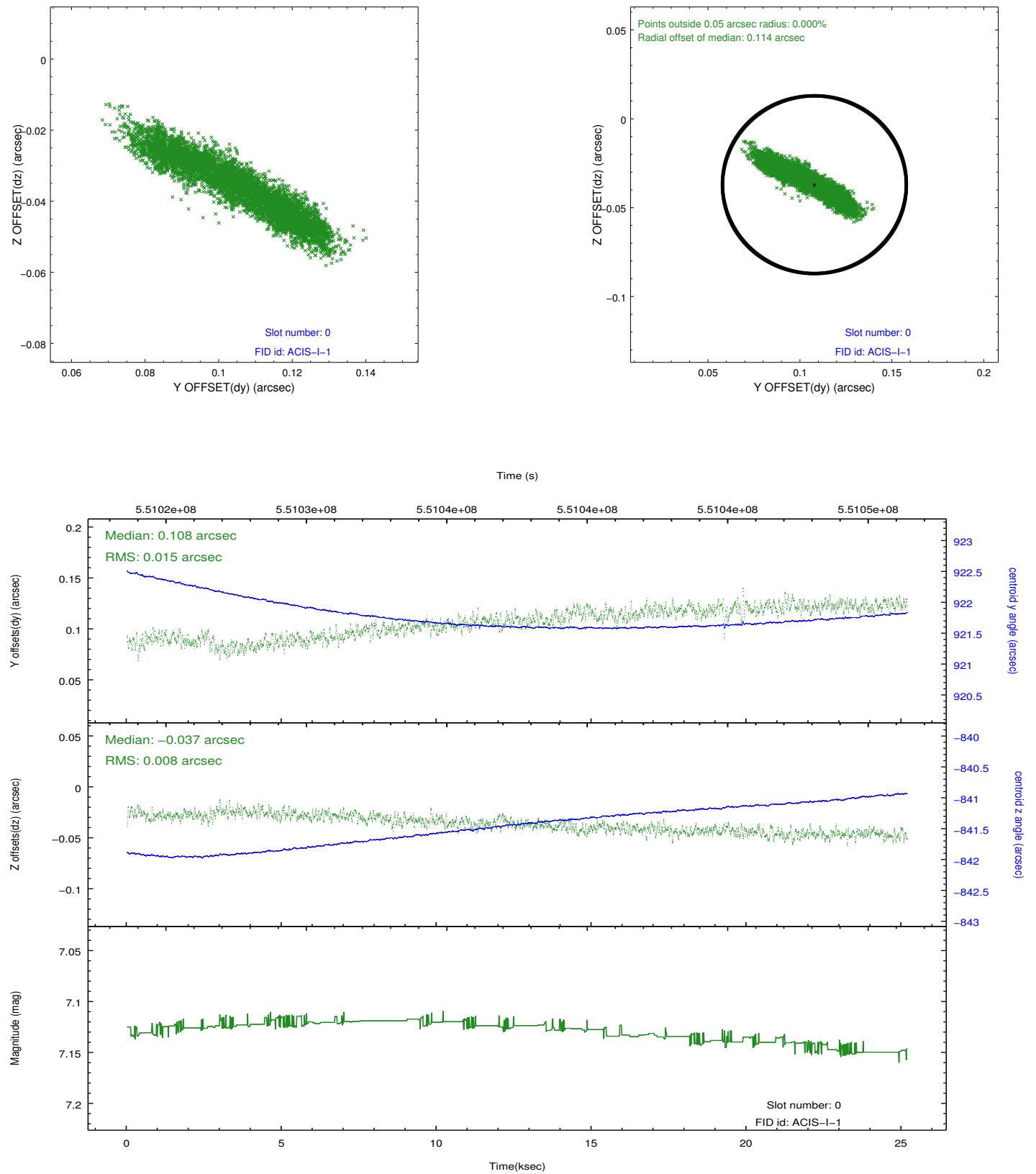


2.4.5 Slot 7

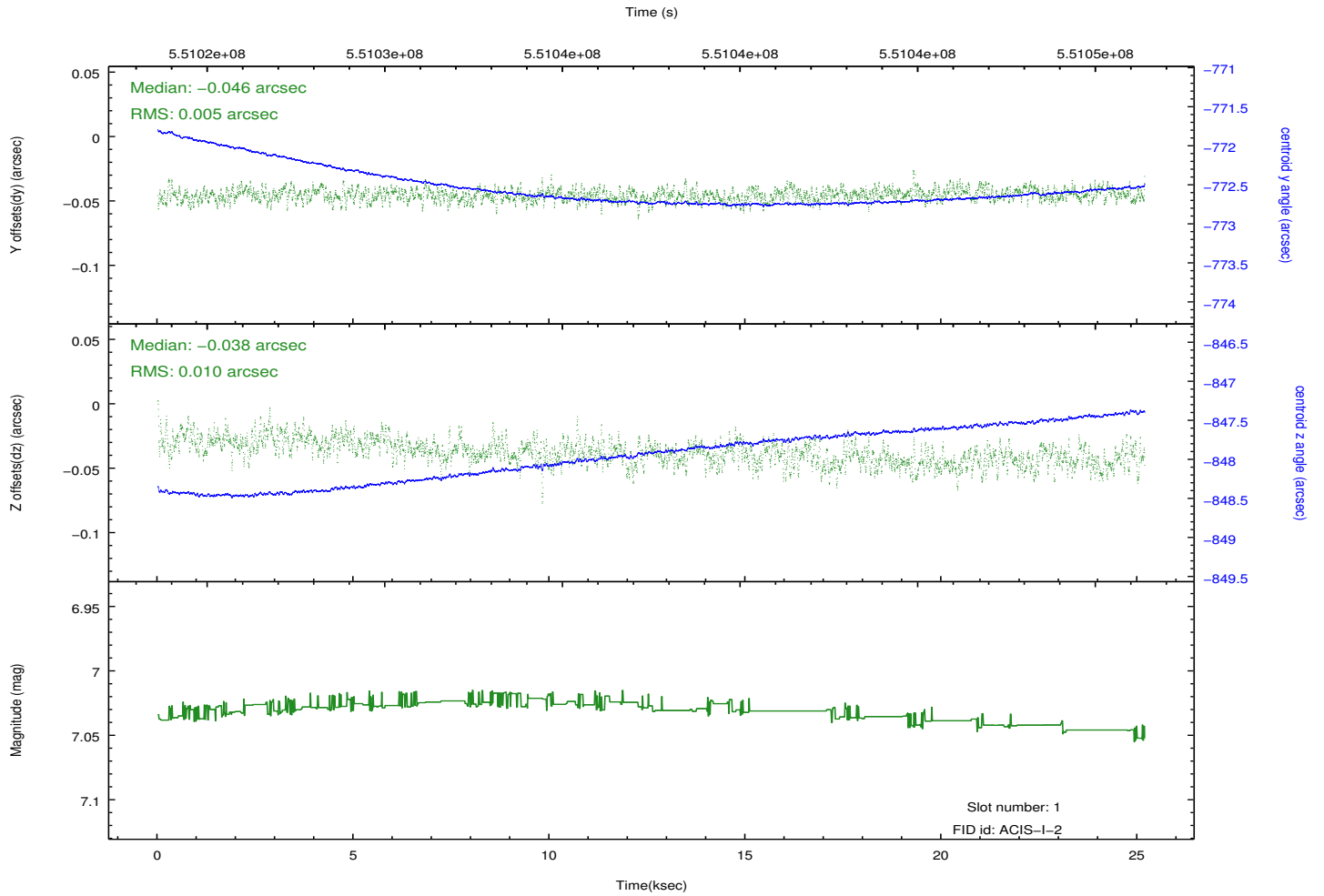
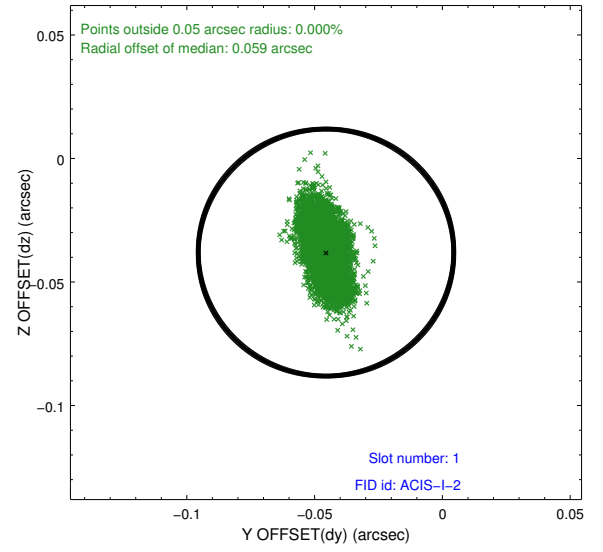
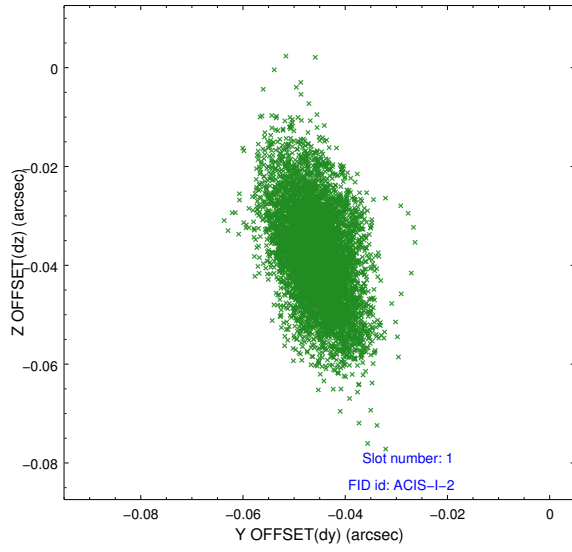


2.5 FID Slots

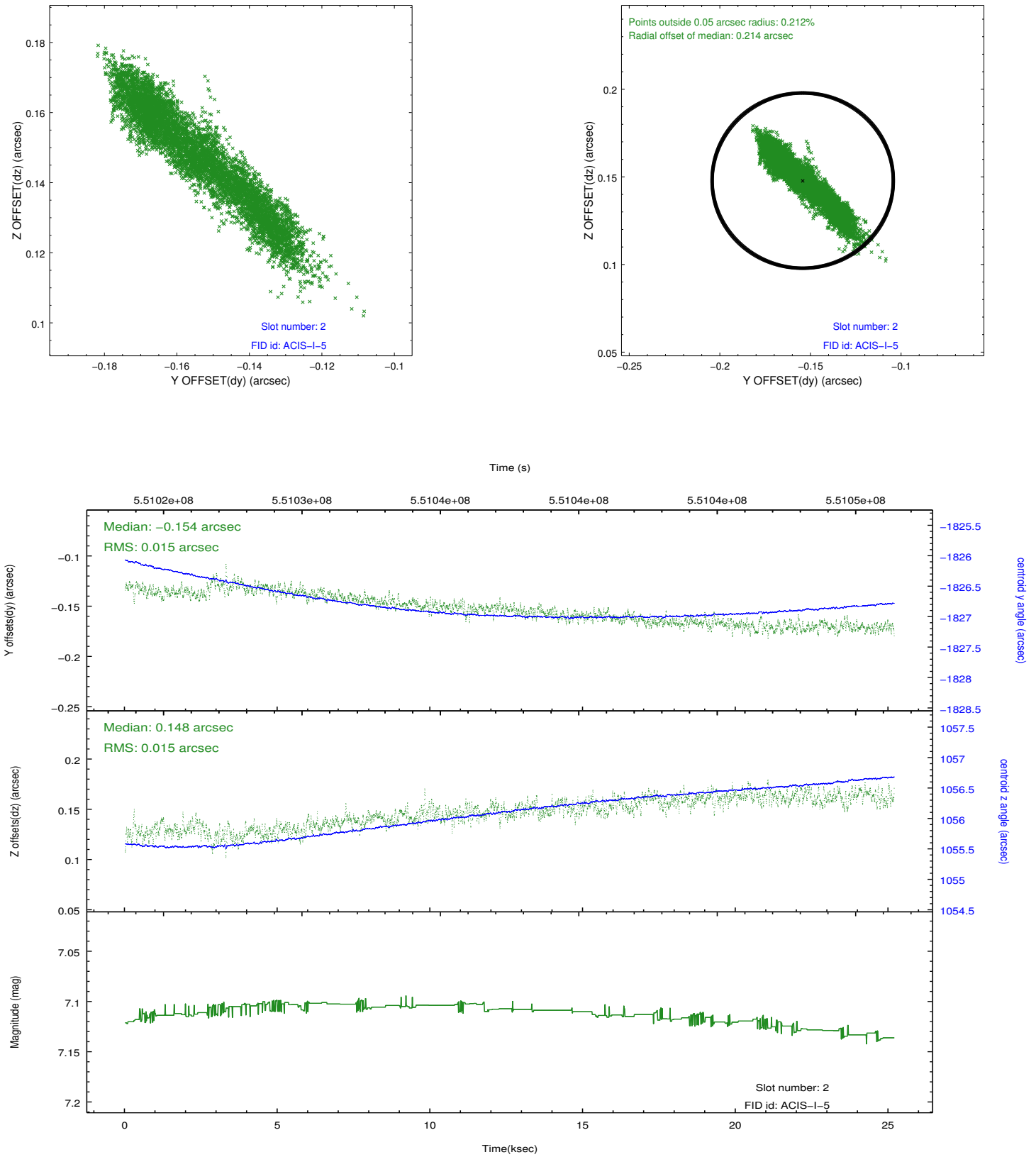
2.5.1 Slot 0



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)	2015.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.063500192881

A.2 Comments