

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 20075 - L2 Version 1
Chandra X-Ray Center

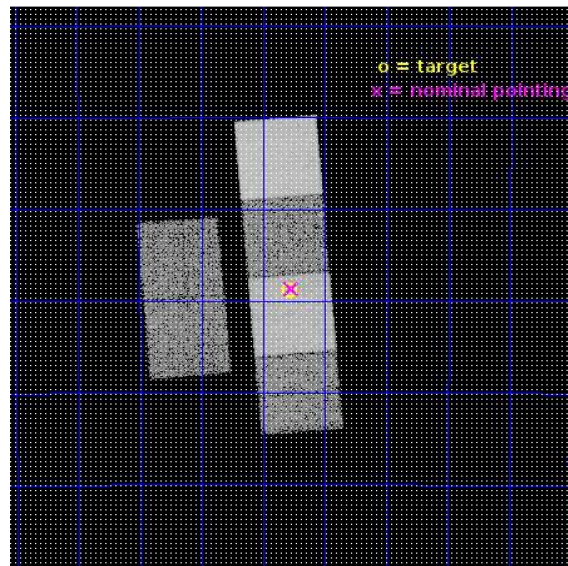
L2 Processing Date : May 10 2017

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1 Front

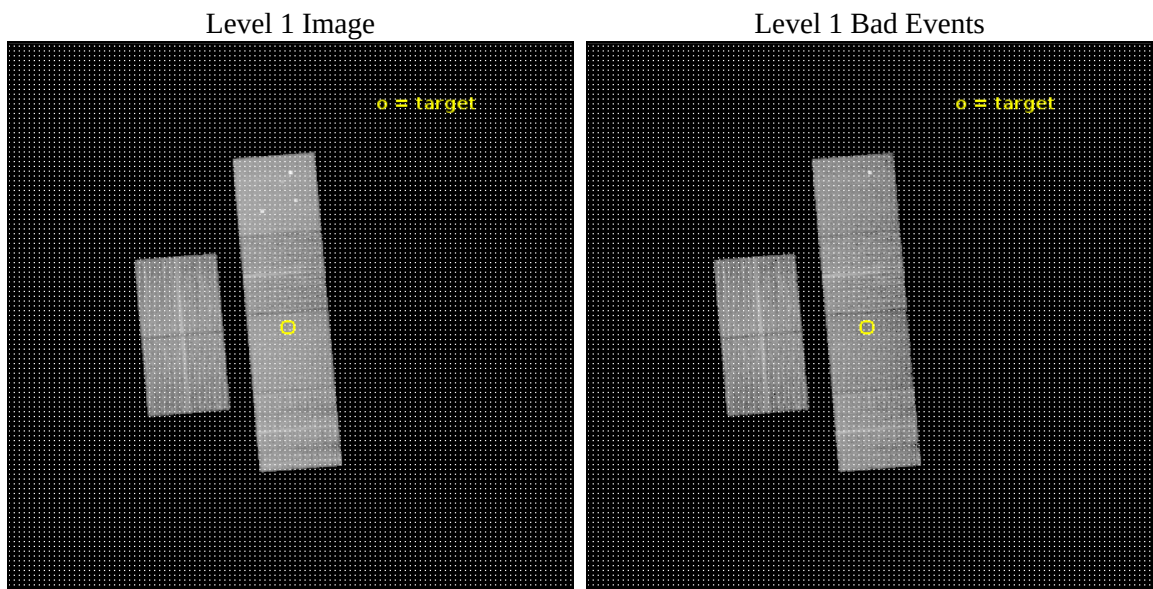
seq_num	401779	Sequence number
obs_id	20075	Observation id
title	The Black Hole Population in Galactic Globular Clusters	Proposal t
observer	Prof Laura Chomiuk	Principal investigator
object	Terzan 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.947125	Observer's specified target RA [deg]
dec_targ	-30.481472	Observer's specified target Dec [deg]
ra_nom	263.94280449211	Nominal RA [deg]
dec_nom	-30.477303364453	Nominal Dec [deg]
roll_nom	85.154453627168	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13952.000207901	Sum of GTIs [s]
livetime	13775.331580383	Livetime [s]
ontime2	13952.000207901	Sum of GTIs [s]
ontime3	13948.759197354	Sum of GTIs [s]
ontime5	13952.000207901	Sum of GTIs [s]
ontime6	13952.000207901	Sum of GTIs [s]
ontime7	13952.000207901	Sum of GTIs [s]
ontime8	13945.518117309	Sum of GTIs [s]
l2events	173548	Number of level 2 events



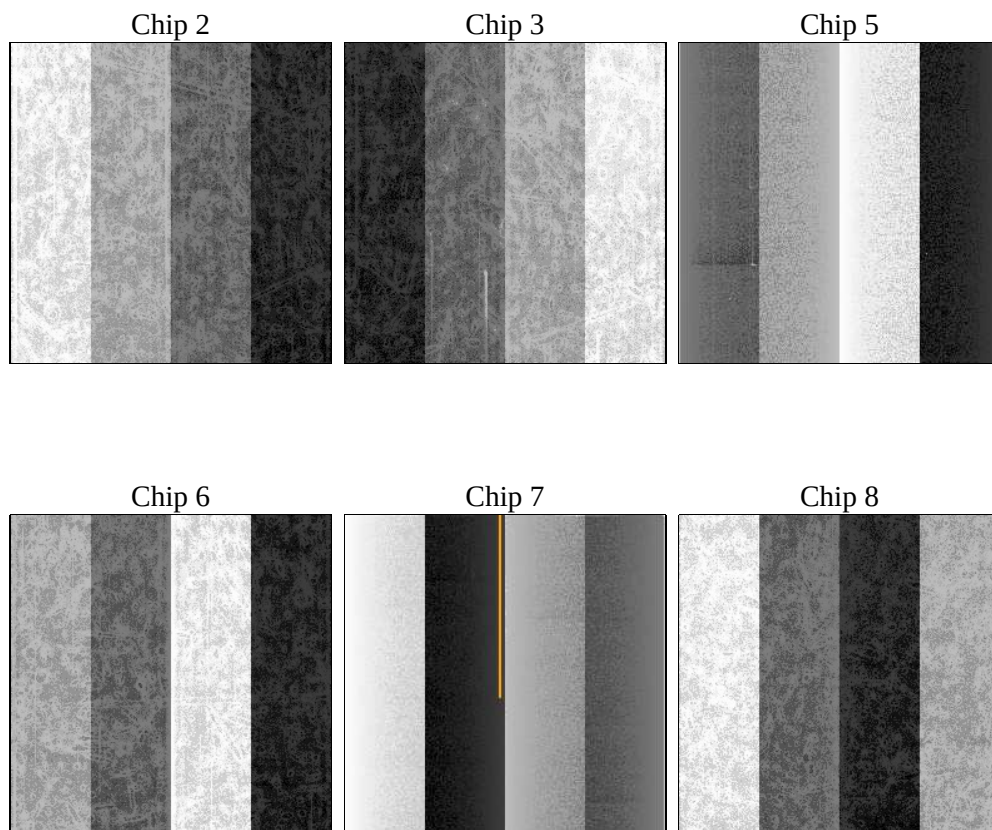
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	13952.000207901	Sum of GTIs [s]
caldsver	4.7.4	 	ontime2	13952.000207901	Sum of GTIs [s]
date	2017-05-10T22:16:06	Date and time of file creation	ontime3	13948.759197354	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	13952.000207901	Sum of GTIs [s]
			ontime6	13952.000207901	Sum of GTIs [s]
			ontime7	13952.000207901	Sum of GTIs [s]
			ontime8	13945.518117309	Sum of GTIs [s]
			l1events	735039	Number of level 1 events

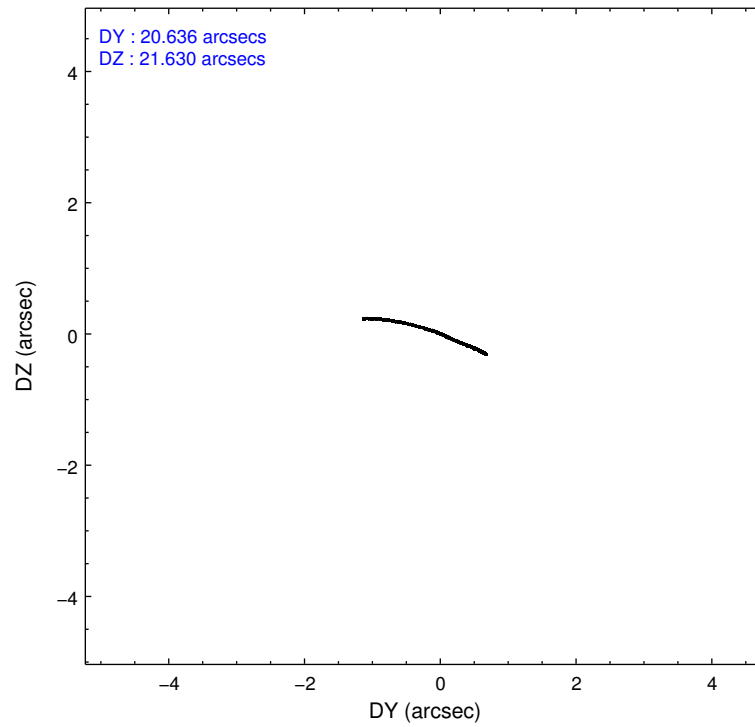
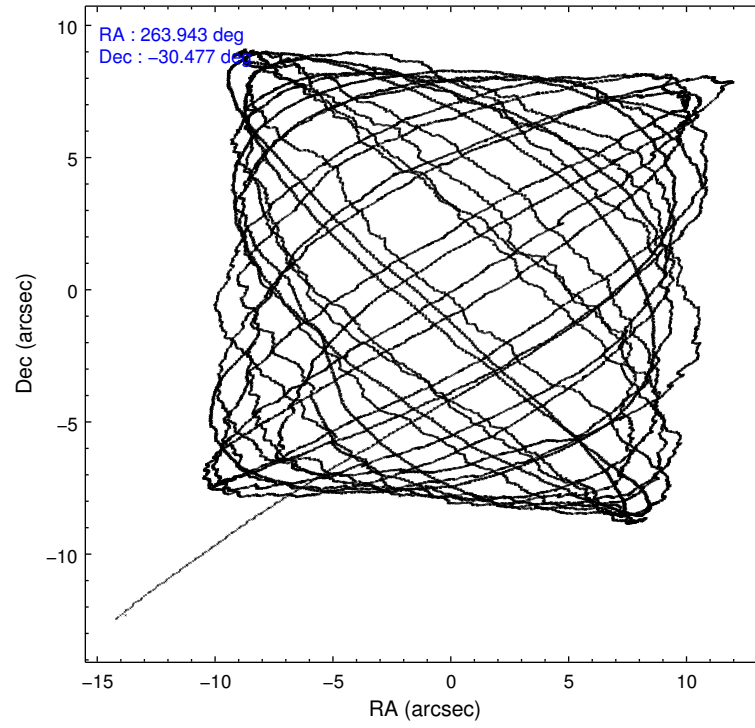
2.1.4 Events

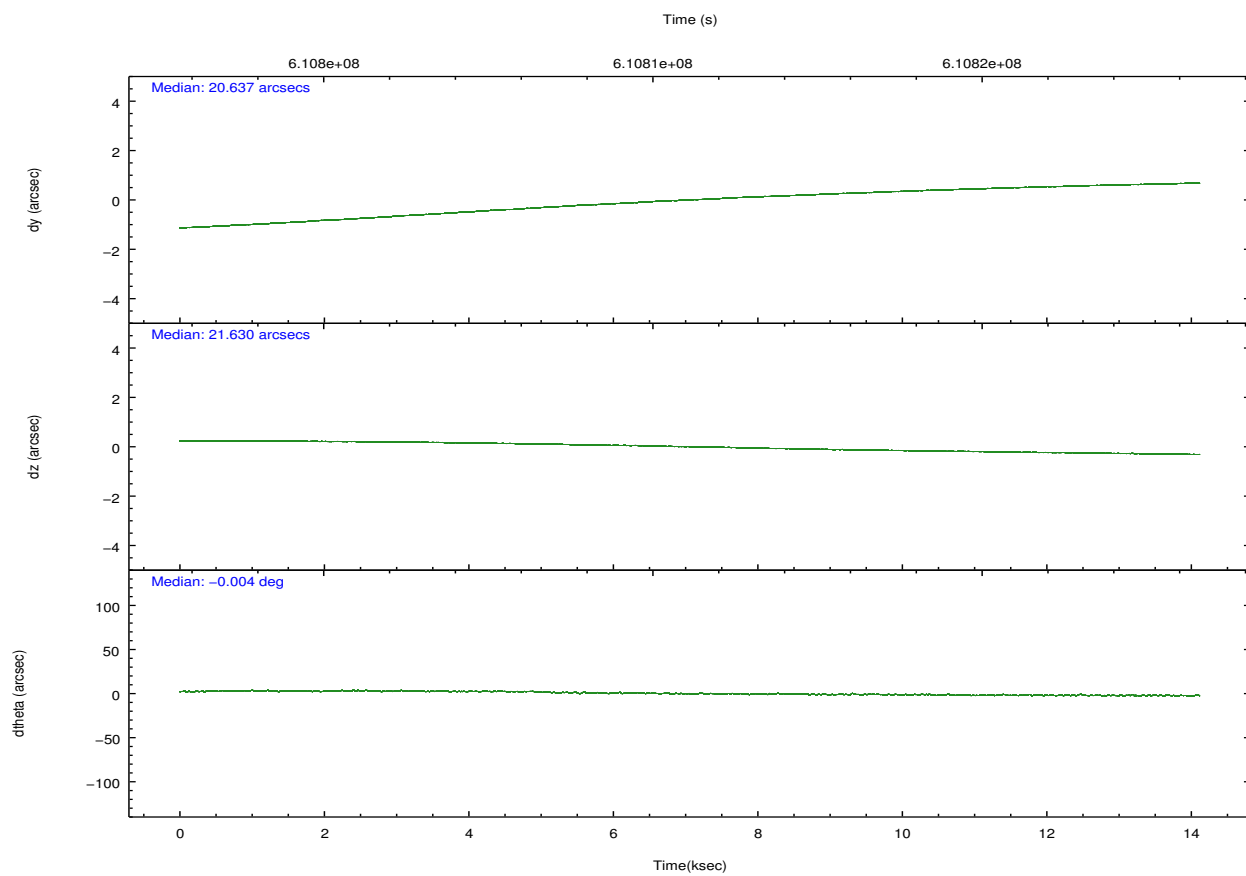
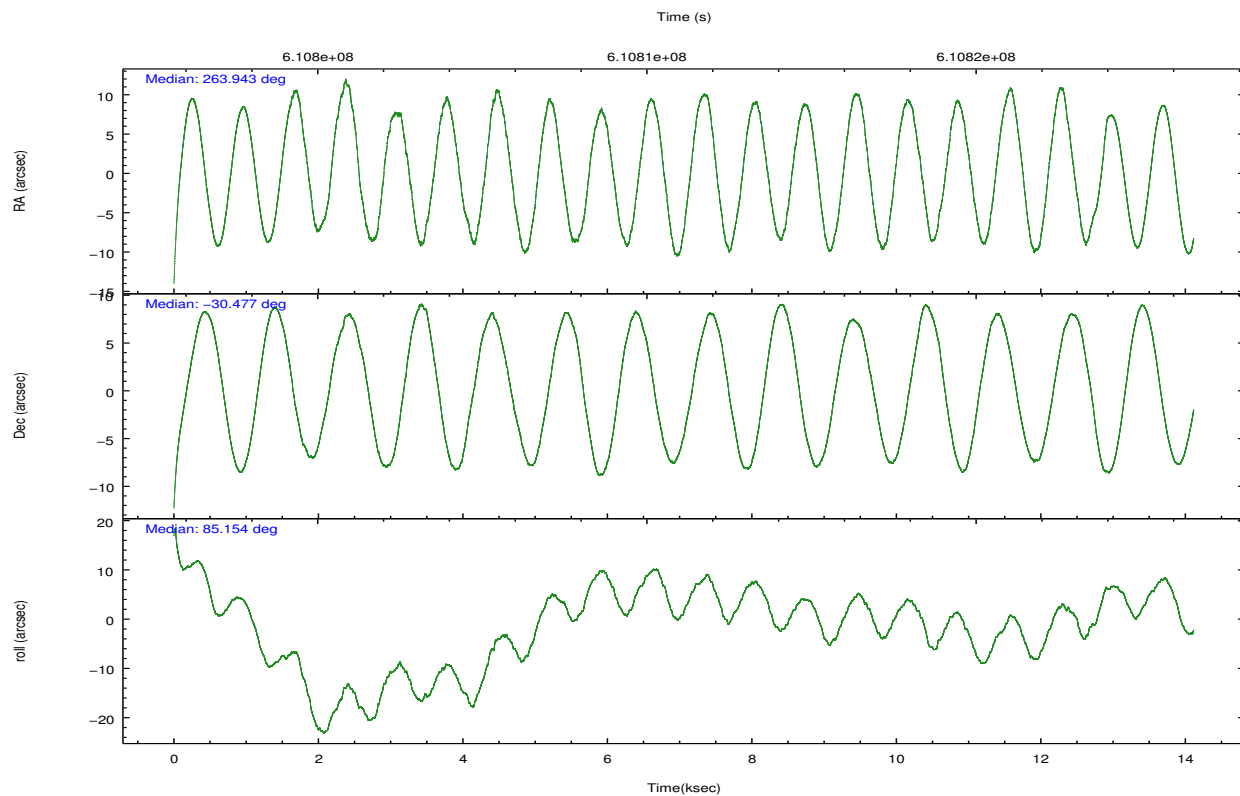
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	105730	93396	168473	104448	131073	131919	grade 0 events	4601	4251	11220	4966	5311	11150
rejected events	93960	82533	85009	91650	72811	95230		4%	4%	6%	4%	4%	8%
rejected %	88%	88%	50%	87%	55%	72%	grade 1 events	61	63	331	68	193	117
								0%	0%	0%	0%	0%	0%
							grade 2 events	2848	2199	25563	2716	12642	8786
								2%	2%	15%	2%	9%	6%
							grade 3 events	1100	1130	2581	1224	4874	3679
								1%	1%	1%	1%	3%	2%
							grade 4 events	1109	1123	2476	1169	4753	3370
								1%	1%	1%	1%	3%	2%
							grade 5 events	3797	4617	11557	4708	13139	7099
								3%	4%	6%	4%	10%	5%
							grade 6 events	2117	2161	41667	2729	30708	9711
								2%	2%	24%	2%	23%	7%
							grade 7 events	90097	77852	73078	86868	59453	88007
								85%	83%	43%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	263.956745	263.9428044921065	CCD I2 on	O1	Y
[deg] Pointing Dec	-30.501971	-30.47730336445327	CCD I3 on	O2	Y
[deg] Pointing Roll	85.004885	85.1544536271677	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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)	610803613.184000	610802291.82464	CCD S5 on	N	N
Observation start date	2017-05-10T11:39:04	2017-05-10T11:18:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	610817613.184000	610818589.32559	On-chip summing requested	N	N
Observation end date	2017-05-10T15:32:24	2017-05-10T15:49:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



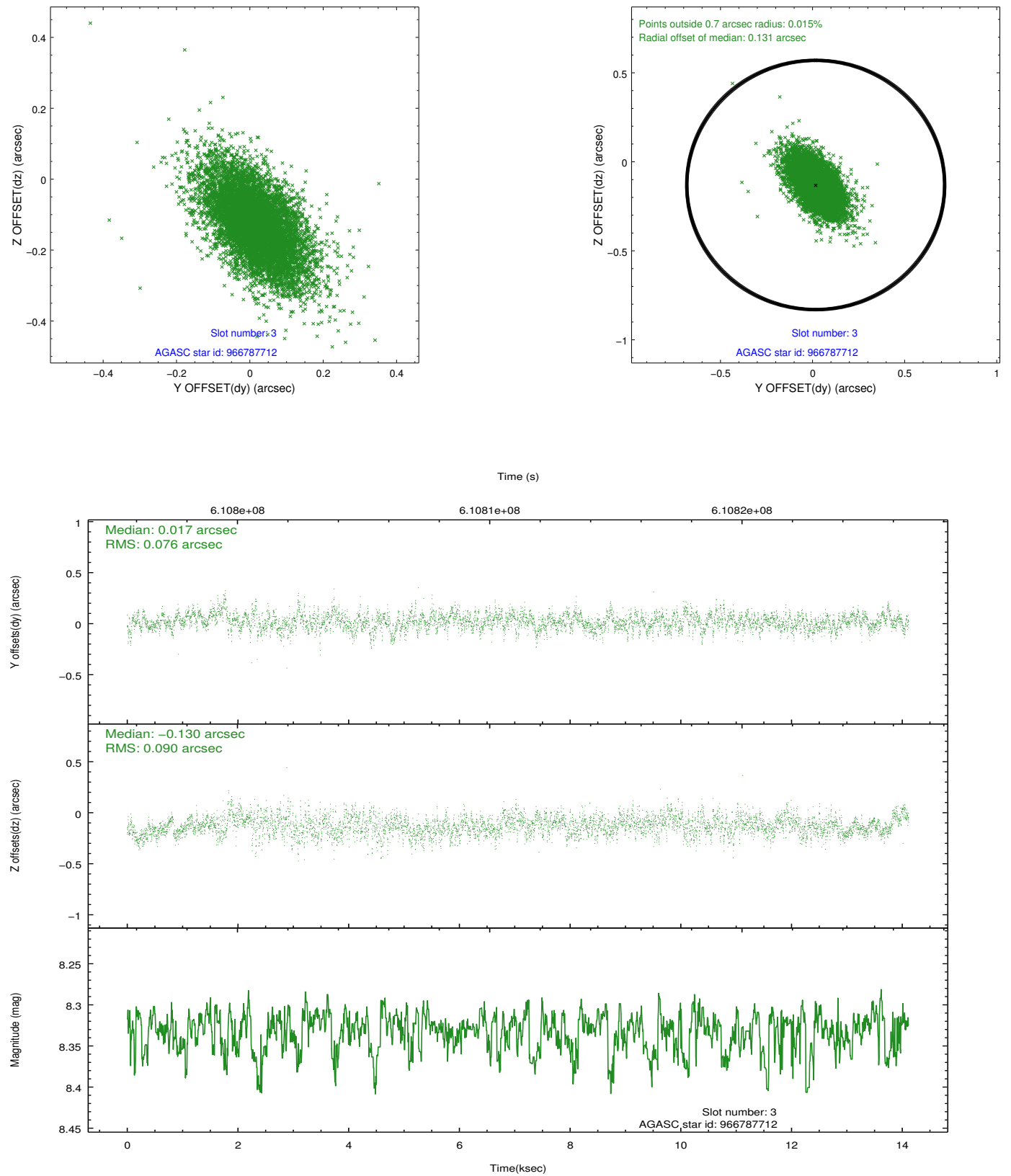


Slot Statistics

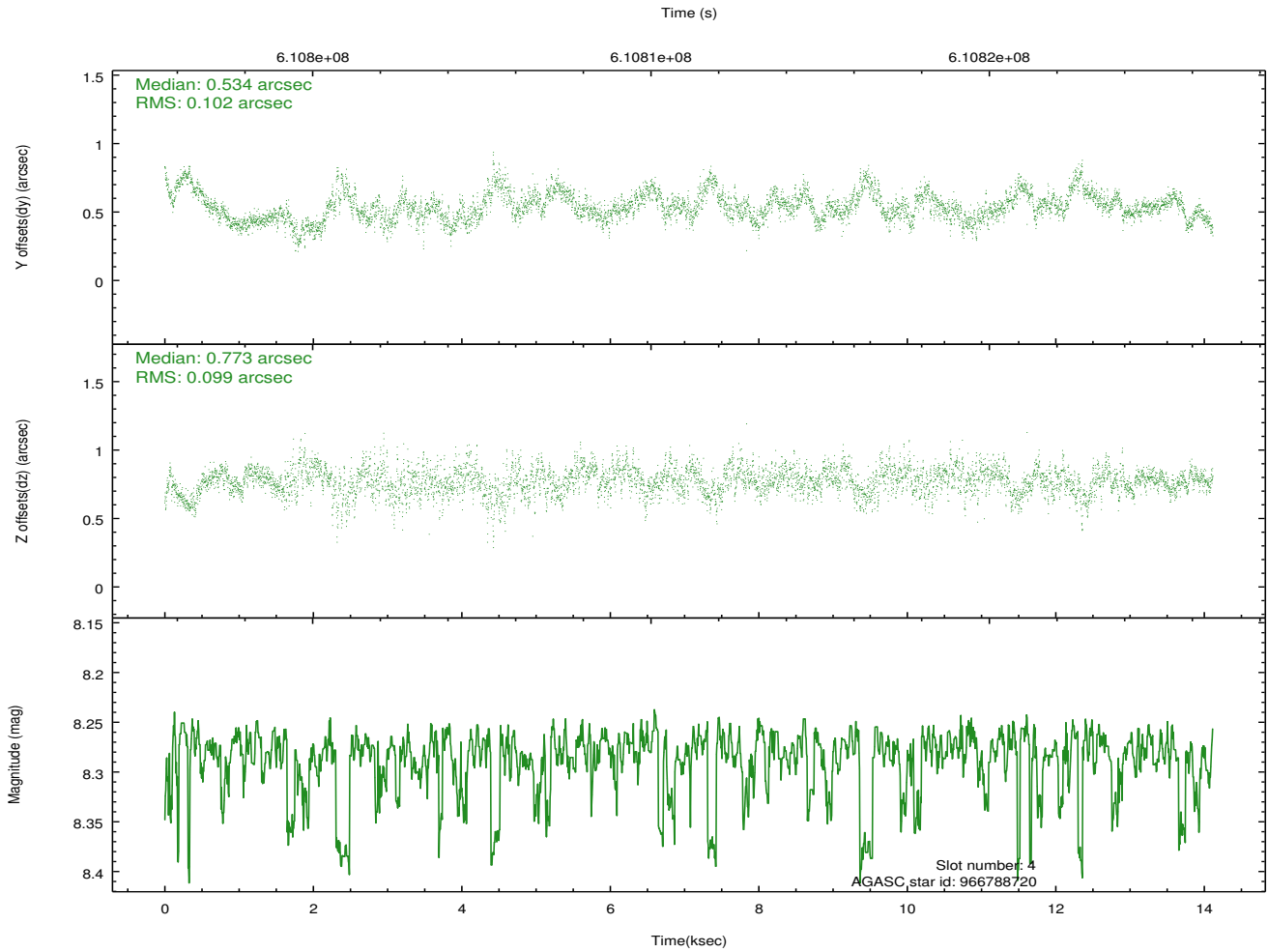
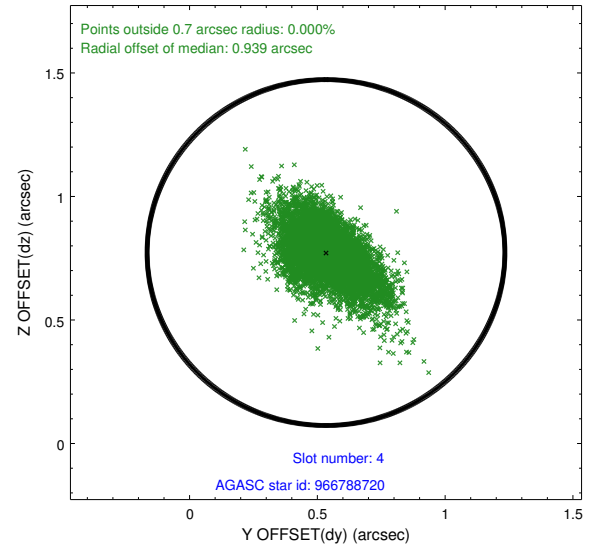
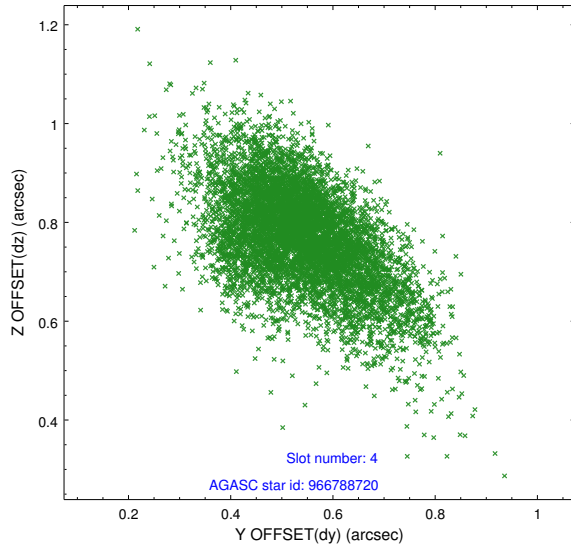
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	3443	-0.237	-0.138	0.009	0.014	0.000000	0.000000	-773.90	-1743.27
1	FID		ACIS-S-4	7.07	3442	0.517	0.151	0.010	0.015	0.000000	0.000000	2139.97	165.17
2	FID		ACIS-S-5	7.06	3443	-0.308	-0.005	0.011	0.019	0.000000	0.000000	-1826.40	159.04
3	GUIDE	used	966787712	8.33	6883	0.017	-0.130	0.119	0.215	263.530944	-31.066254	-2140.40	1131.07
4	GUIDE	used	966788720	8.28	6882	0.534	0.773	0.142	0.265	264.555693	-31.018346	-1695.55	-2002.07
5	GUIDE	used	966791064	7.75	6886	-0.256	-0.238	0.155	0.251	263.920275	-30.338943	574.43	163.70
6	GUIDE	used	966794640	9.29	6875	-0.283	-0.270	0.165	0.274	263.854004	-30.029028	1668.03	467.27
7	GUIDE	used	966787448	8.51	6885	-0.032	-0.140	0.117	0.212	263.341993	-31.095036	-2296.84	1701.78

2.4 Star Slots

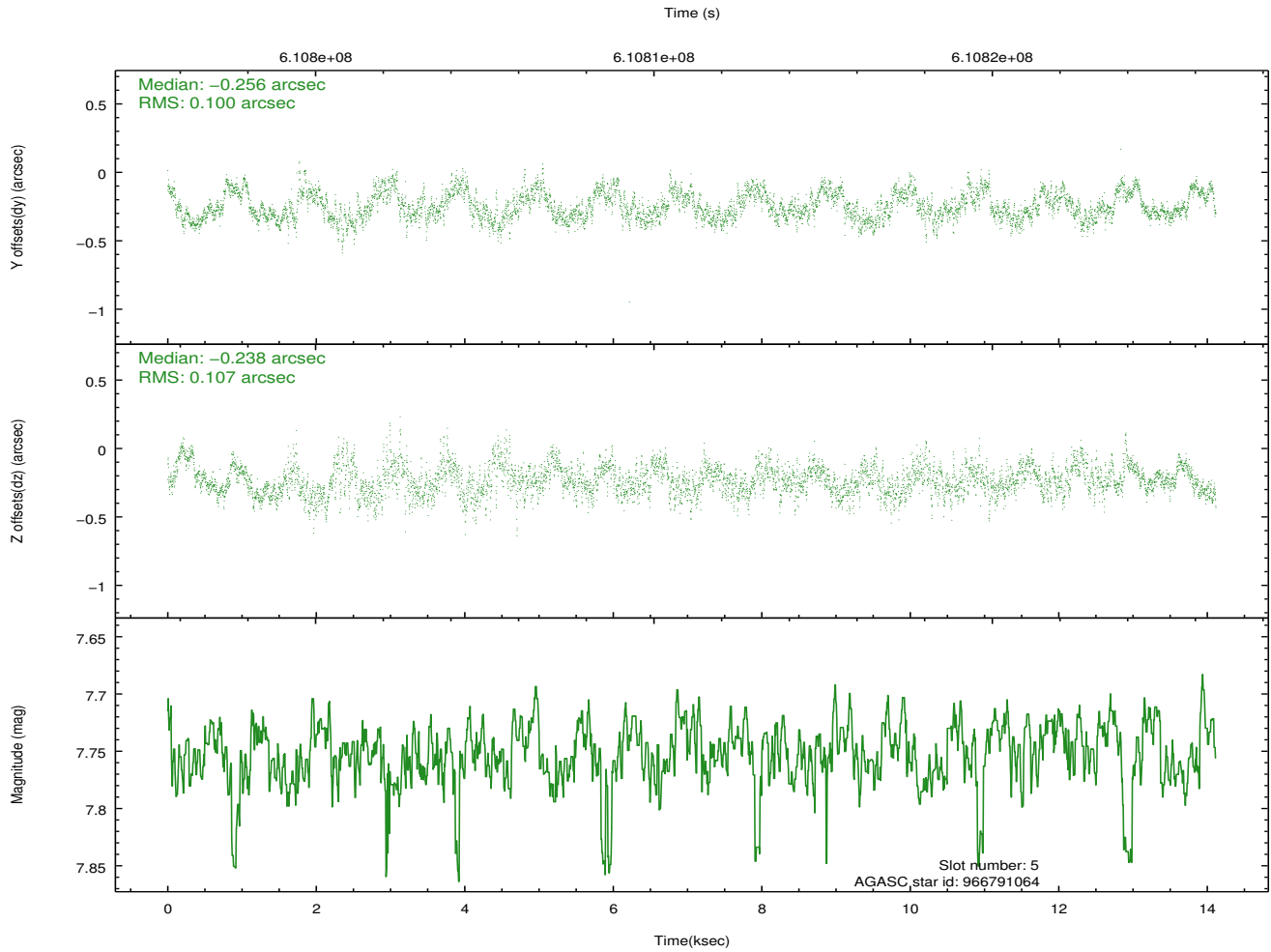
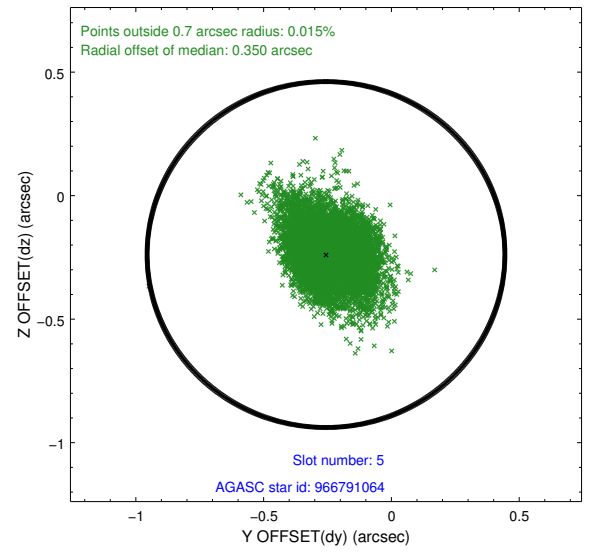
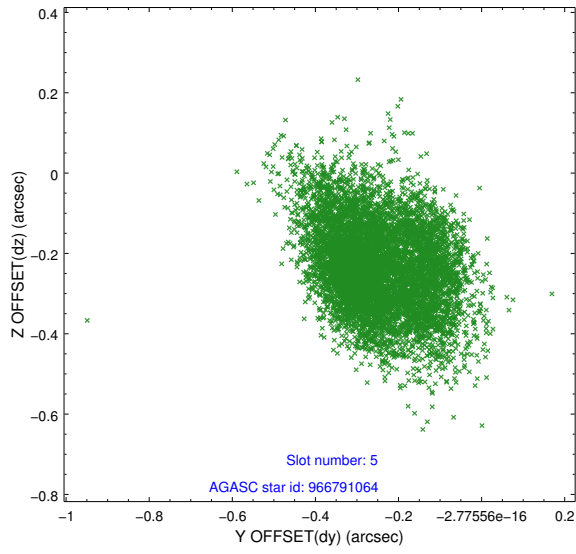
2.4.1 Slot 3



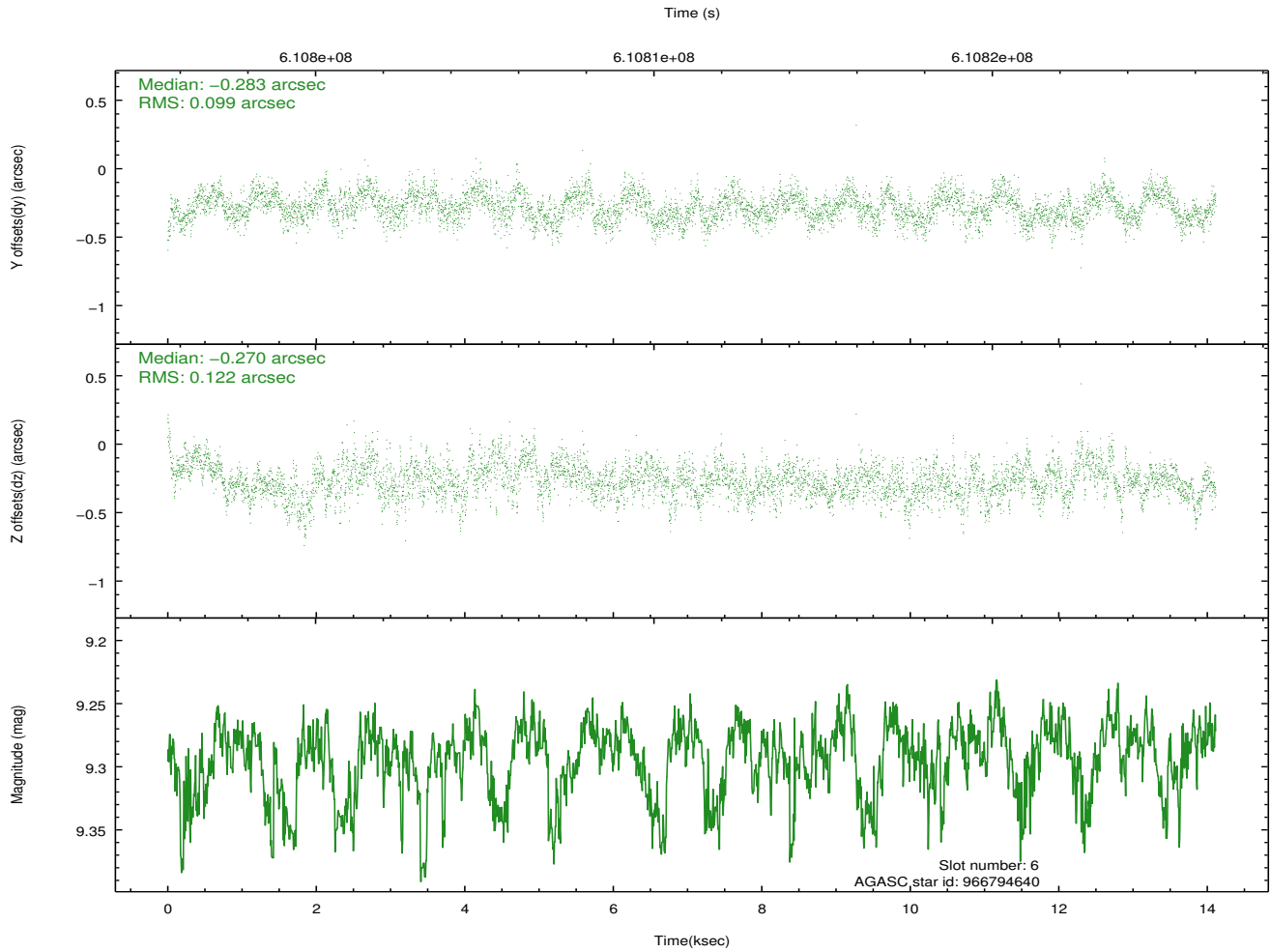
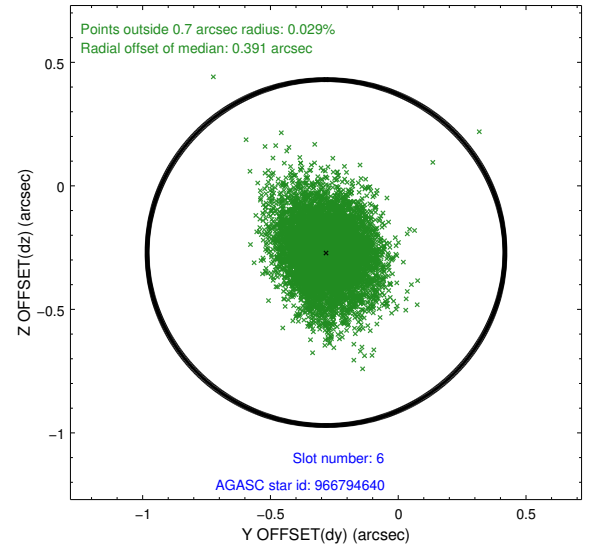
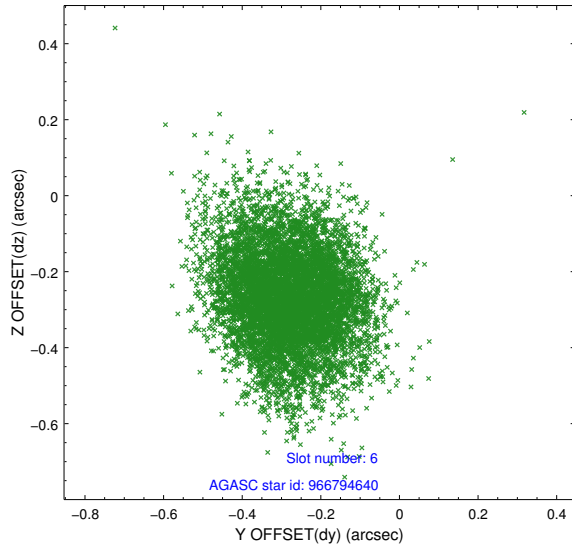
2.4.2 Slot 4



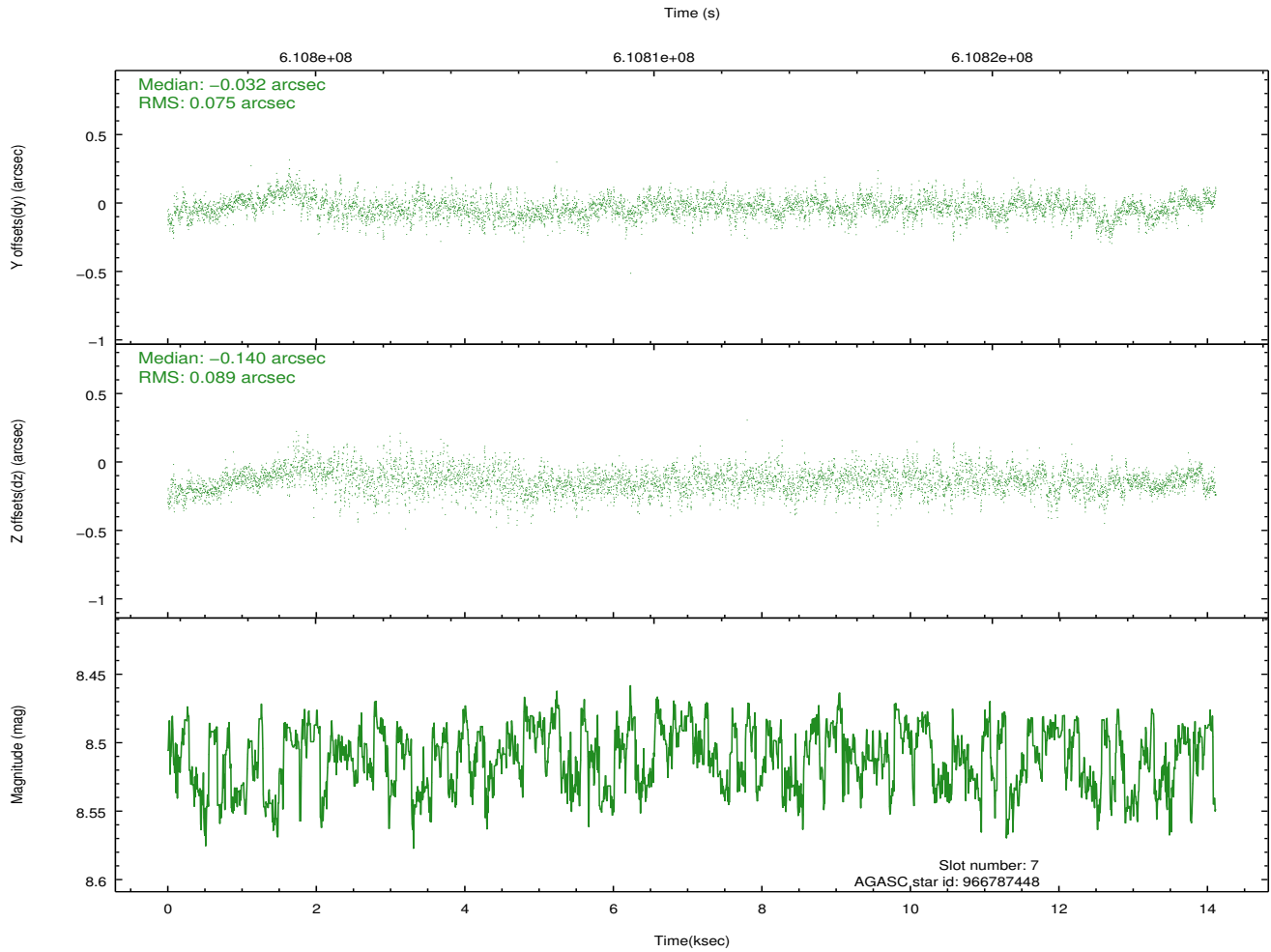
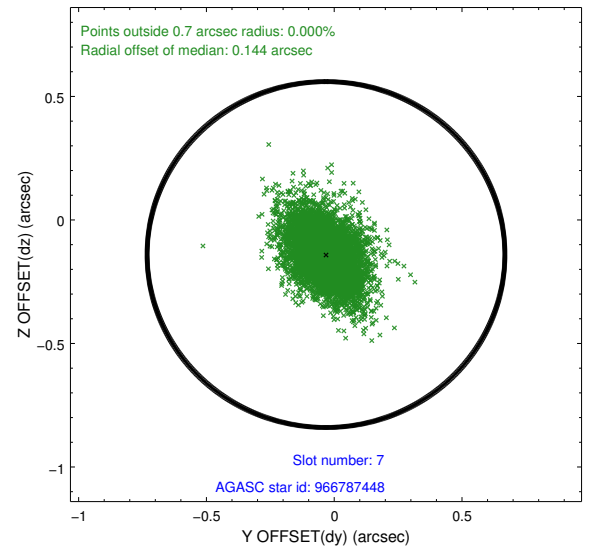
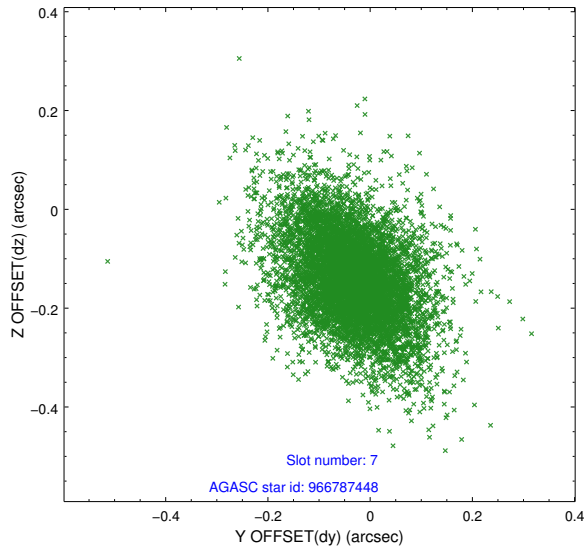
2.4.3 Slot 5



2.4.4 Slot 6

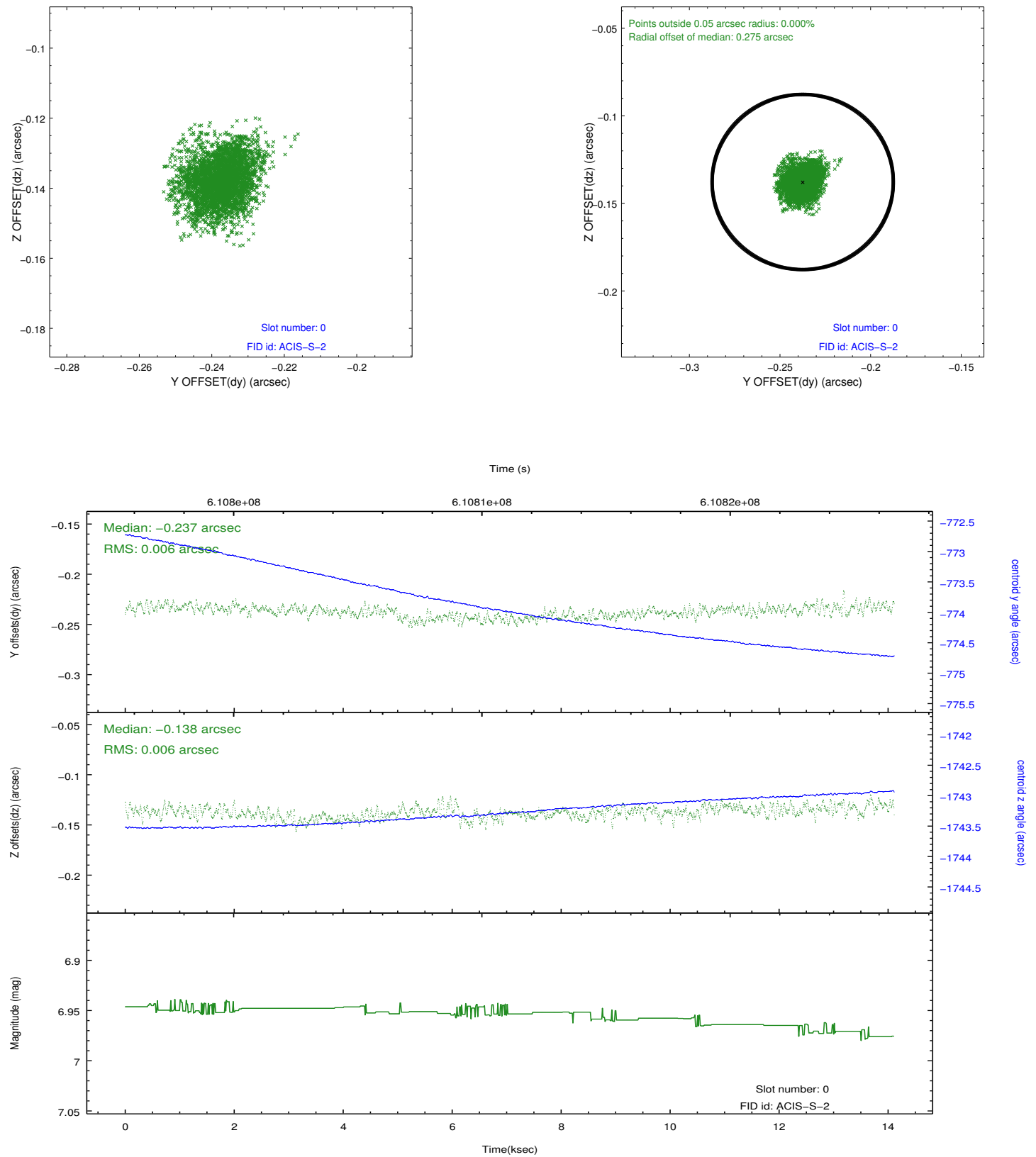


2.4.5 Slot 7

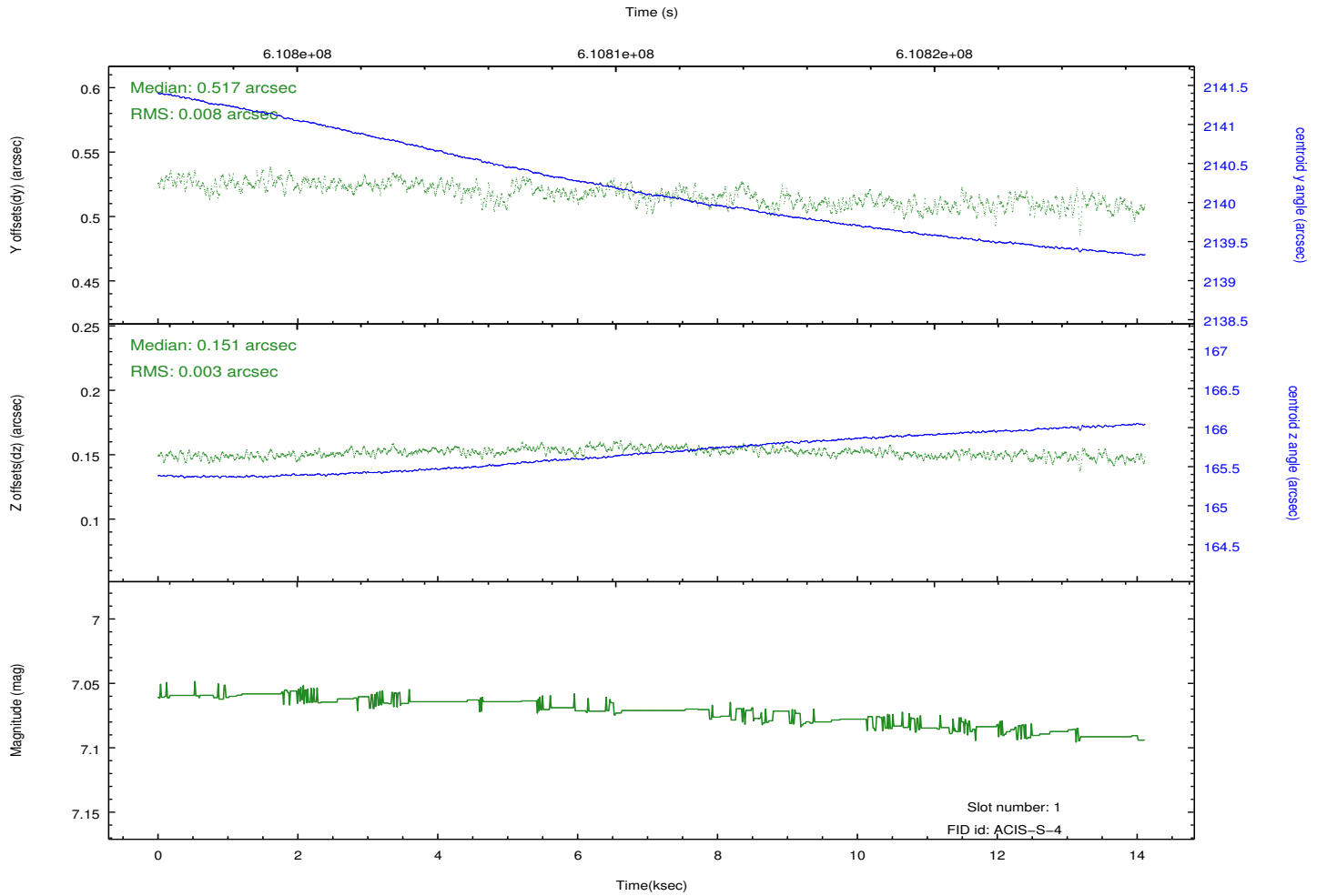
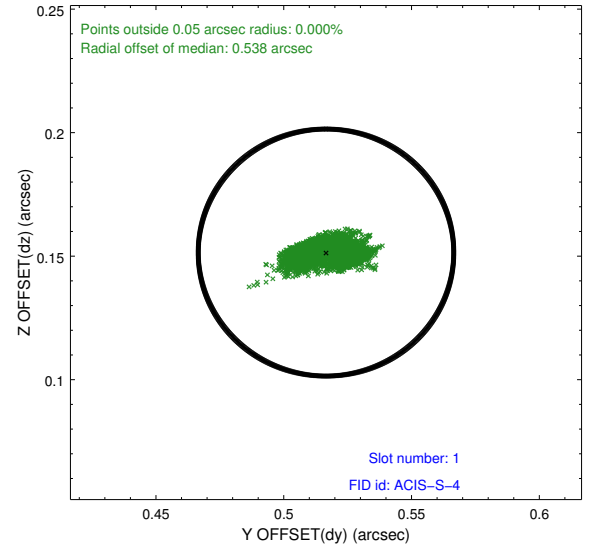
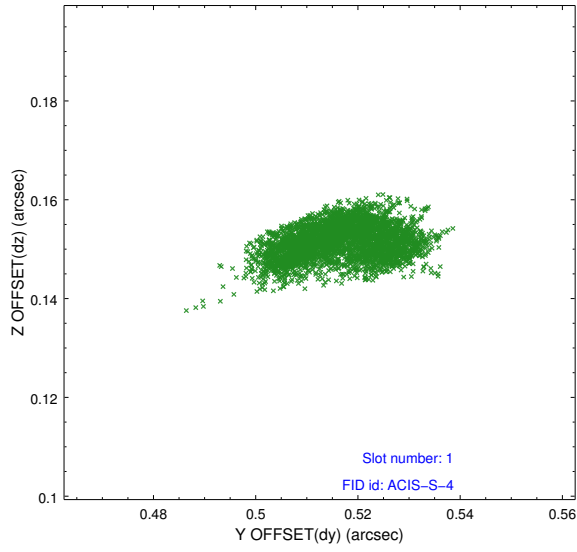


2.5 FID Slots

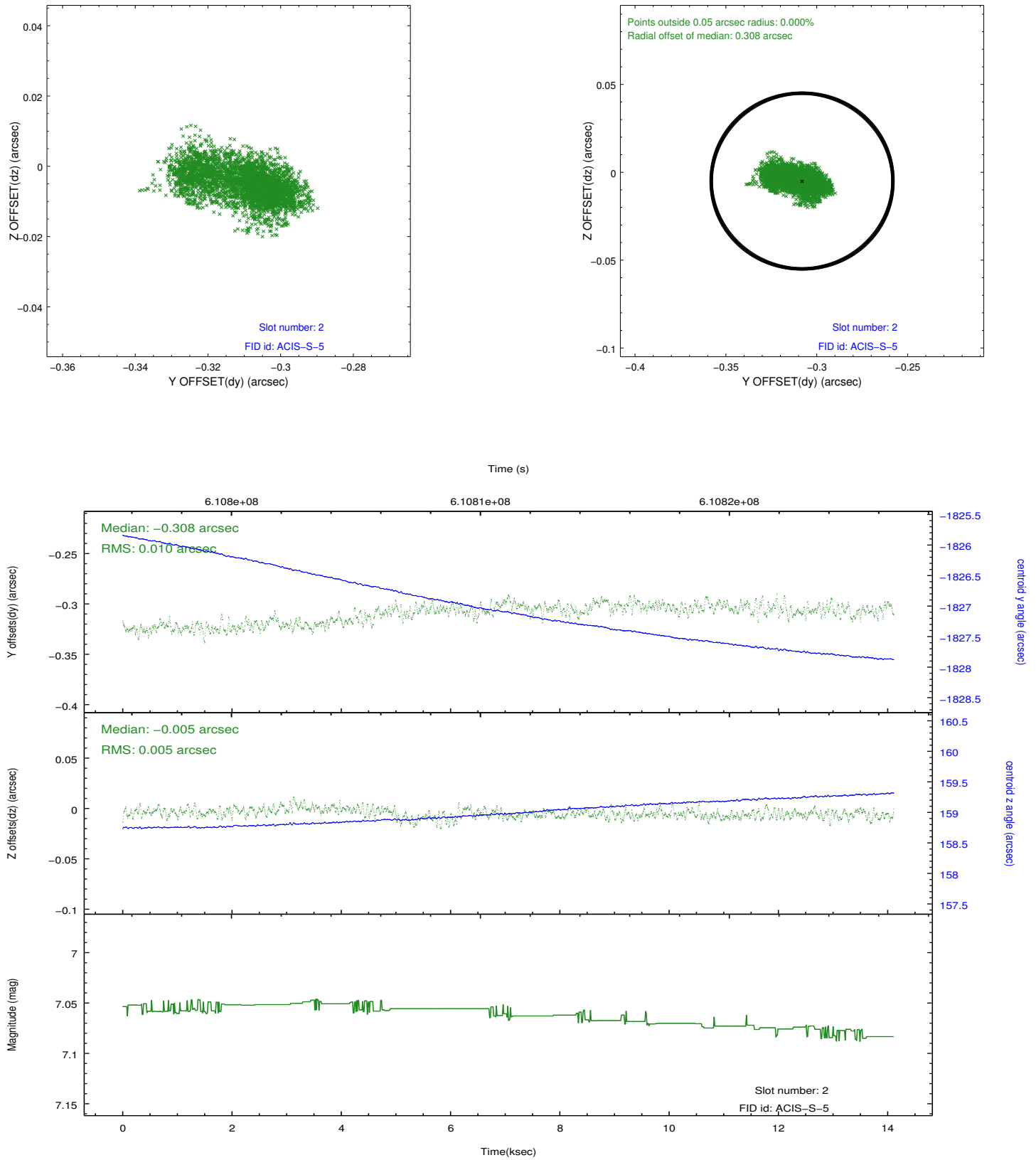
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.952000207901

A.2 Comments