

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 15994 - L2 Version 1
Chandra X-Ray Center

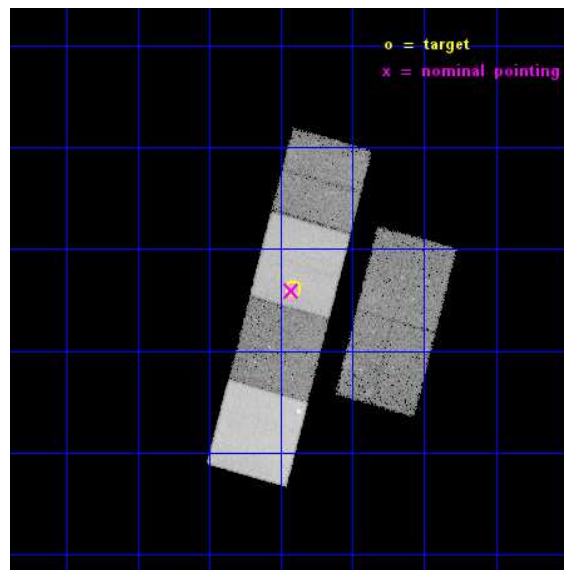
L2 Processing Date : Nov 26 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

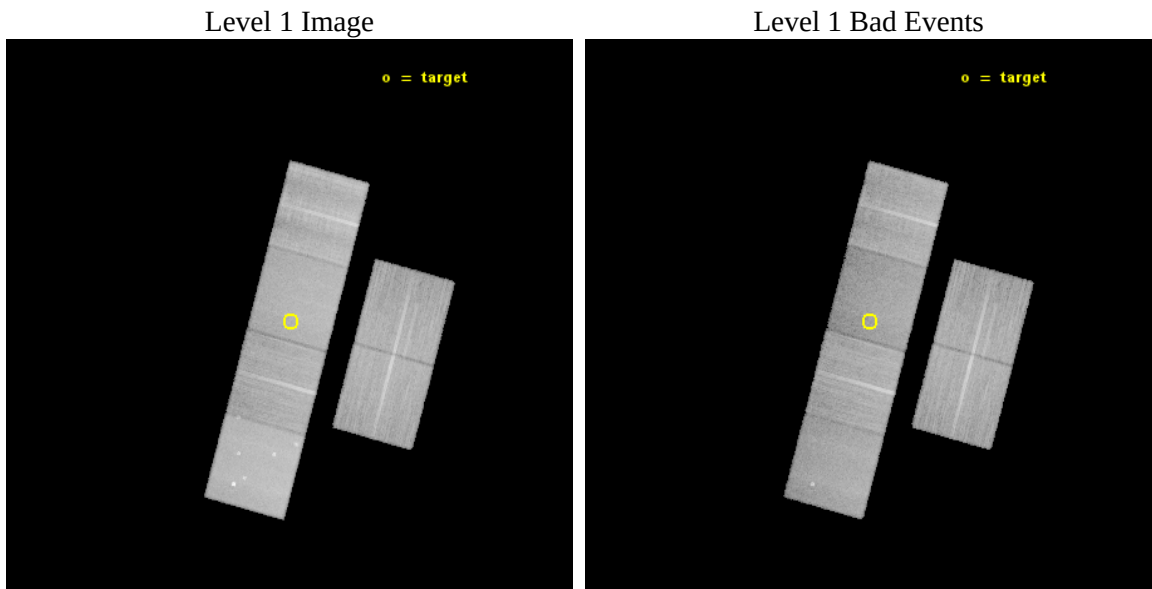
seq_num	502227	Sequence number
obs_id	15994	Observation id
title	Constraining the Energetics of Fermi-LAT GRBs with Chandra	Proposa
observer	Dr. Judith Racusin	Principal investigator
object	GRB 141028A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.60226	Observer's specified target RA [deg]
dec_targ	-0.231314	Observer's specified target Dec [deg]
ra_nom	322.60665720391	Nominal RA [deg]
dec_nom	-0.23449230090991	Nominal Dec [deg]
roll_nom	285.15665467946	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39958.399851203	Sum of GTIs [s]
livetime	39452.422532227	Livetime [s]
ontime2	39958.399851203	Sum of GTIs [s]
ontime3	39958.399851203	Sum of GTIs [s]
ontime5	39958.399851203	Sum of GTIs [s]
ontime6	39958.399851203	Sum of GTIs [s]
ontime7	39958.399851203	Sum of GTIs [s]
ontime8	39955.158840954	Sum of GTIs [s]
l2events	324479	Number of level 2 events



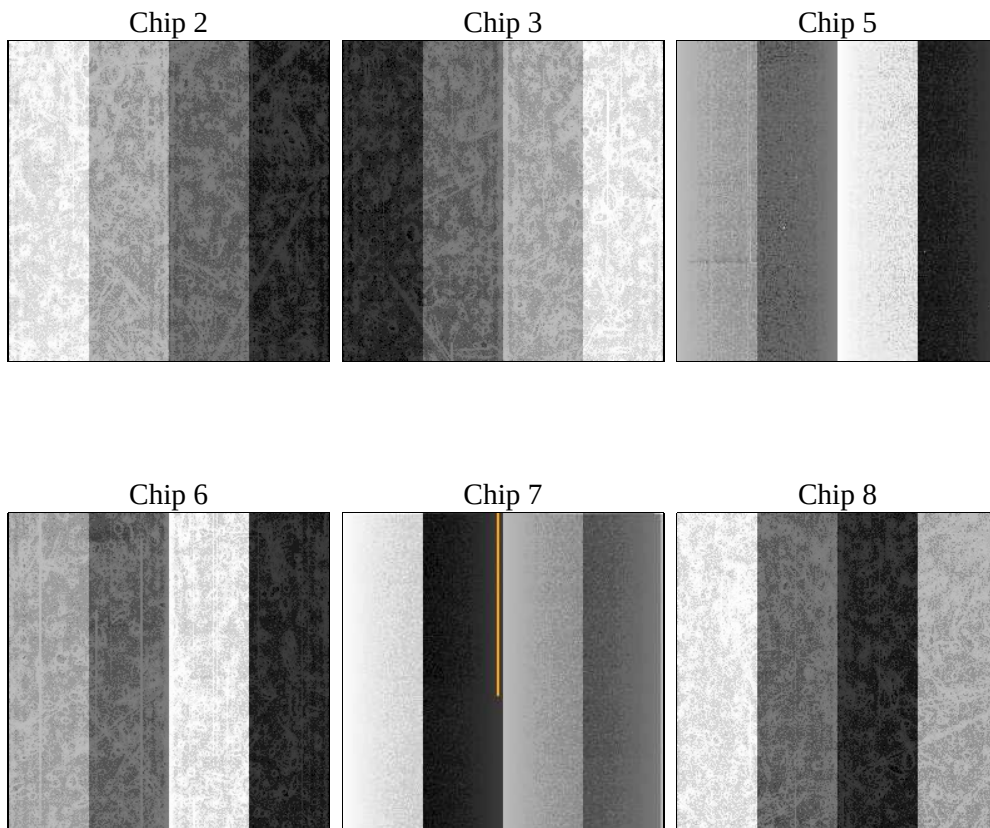
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	39958.399851203	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	39958.399851203	Sum of GTIs [s]
date	2014-11-27T02:58:27	Date and time of file creation	ontime3	39958.399851203	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	39958.399851203	Sum of GTIs [s]
			ontime6	39958.399851203	Sum of GTIs [s]
			ontime7	39958.399851203	Sum of GTIs [s]
			ontime8	39955.158840954	Sum of GTIs [s]
			l1events	1359612	Number of level 1 events

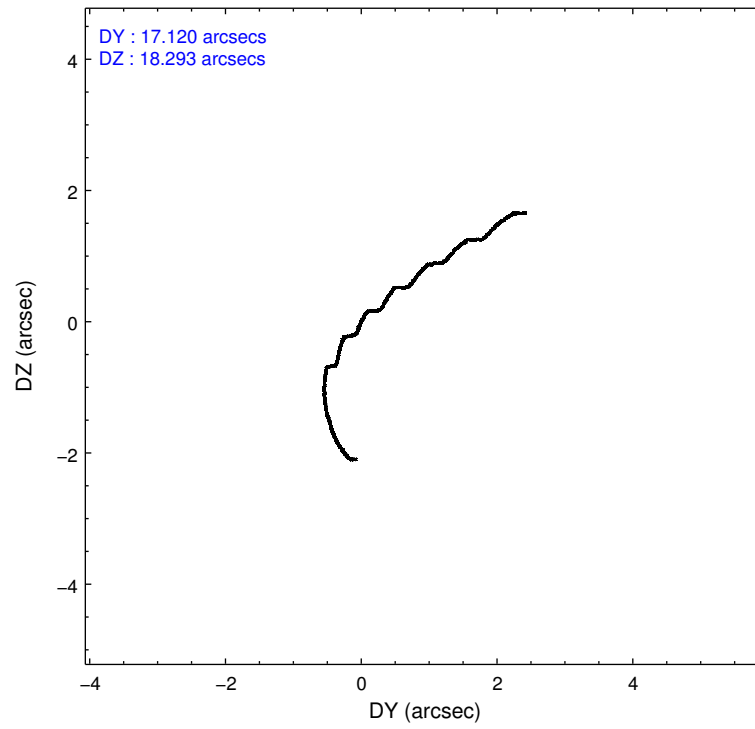
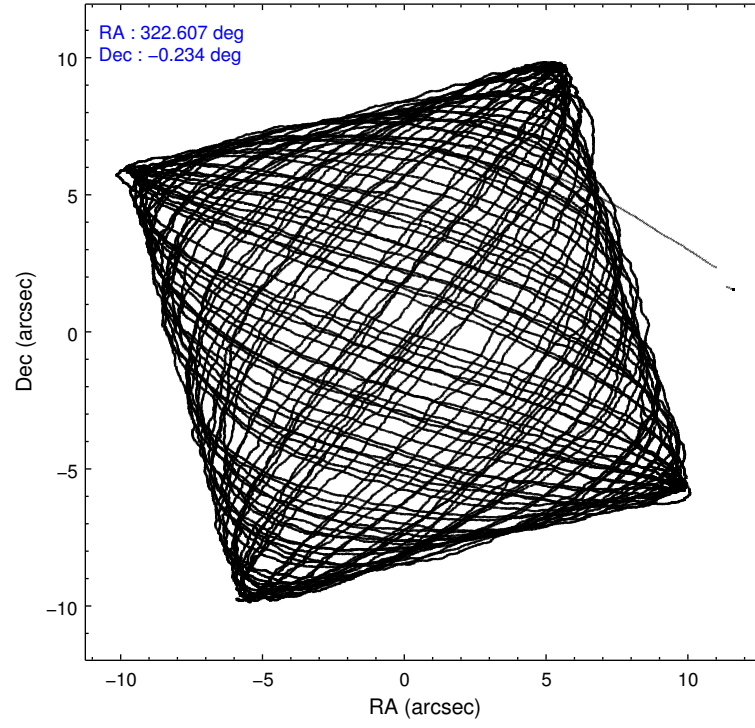
2.1.4 Events

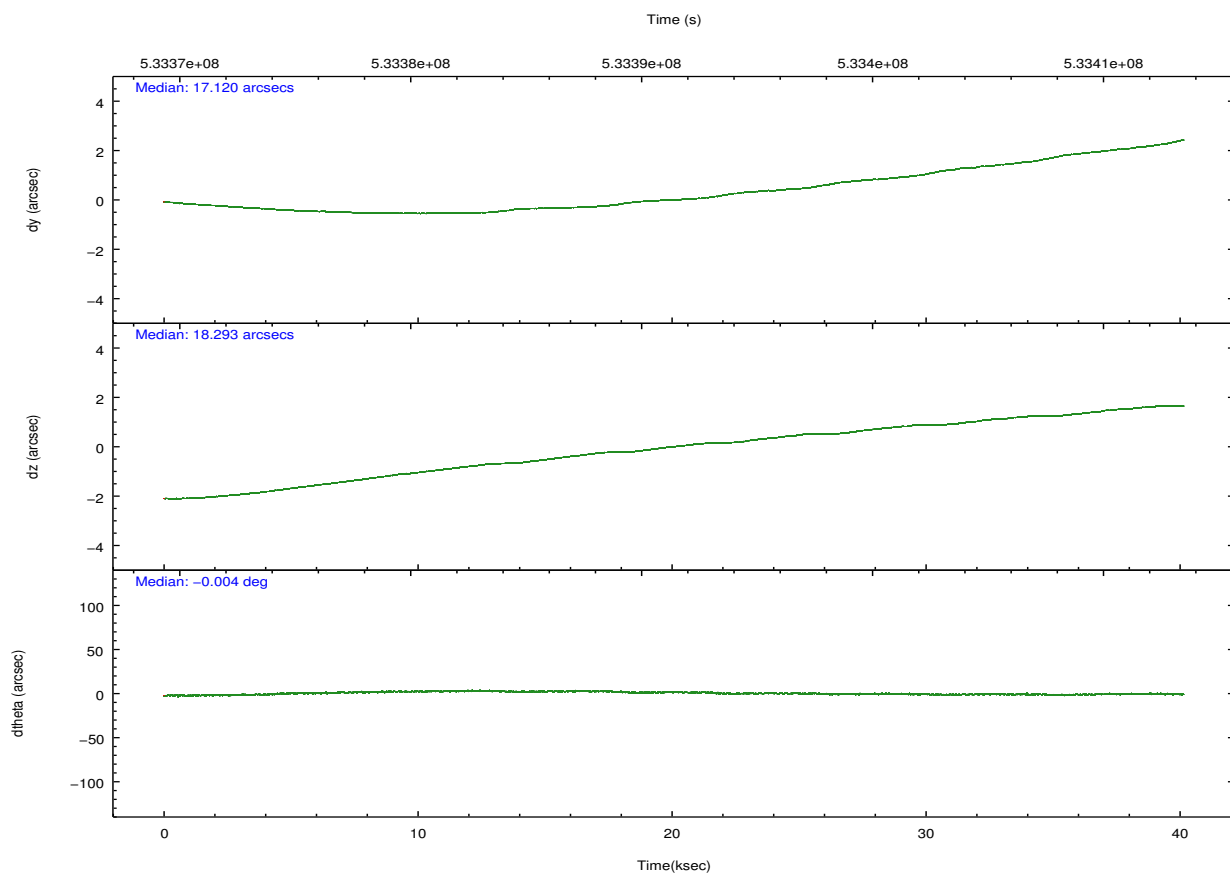
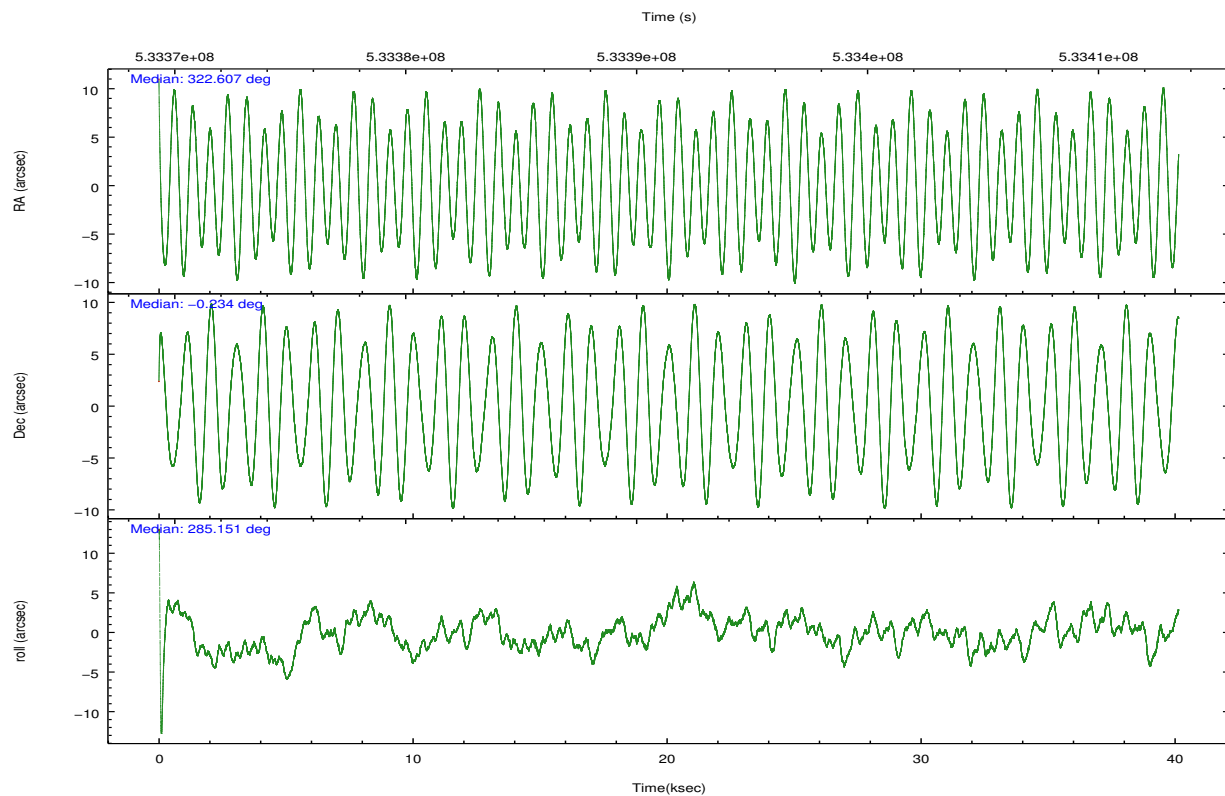
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	202934	189411	296521	197788	224685	248273	grade 0 events	8461	7950	14076	7954	9838	19333
rejected events	180605	168545	143958	174849	119560	179832		4%	4%	4%	4%	4%	7%
rejected %	88%	88%	48%	88%	53%	72%	grade 1 events	117	126	1548	91	352	205
								0%	0%	0%	0%	0%	0%
							grade 2 events	5467	4436	47793	5343	22750	16603
								2%	2%	16%	2%	10%	6%
							grade 3 events	2190	2203	5346	2262	8736	7156
								1%	1%	1%	1%	3%	2%
							grade 4 events	2258	2205	5301	2297	8649	6764
								1%	1%	1%	1%	3%	2%
							grade 5 events	7158	8606	21654	8319	23115	13032
								3%	4%	7%	4%	10%	5%
							grade 6 events	3954	4075	80067	5090	55177	18589
								1%	2%	27%	2%	24%	7%
							grade 7 events	173329	159810	120736	166432	96068	166591
								85%	84%	40%	84%	42%	67%

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	322.586955	322.6066572039149	CCD I2 on	O4	Y
[deg] Pointing Dec	-0.215409	-0.2344923009099107	CCD I3 on	O5	Y
[deg] Pointing Roll	284.999946	285.156654679462	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O3	Y
[s] Observation start time (MET)	533371470.184000	533370175.10491	CCD S5 on	N	N
Observation start date	2014-11-26T06:43:23	2014-11-26T06:22:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	533411470.184000	533412536.30727	On-chip summing requested	N	N
Observation end date	2014-11-26T17:50:03	2014-11-26T18:08:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



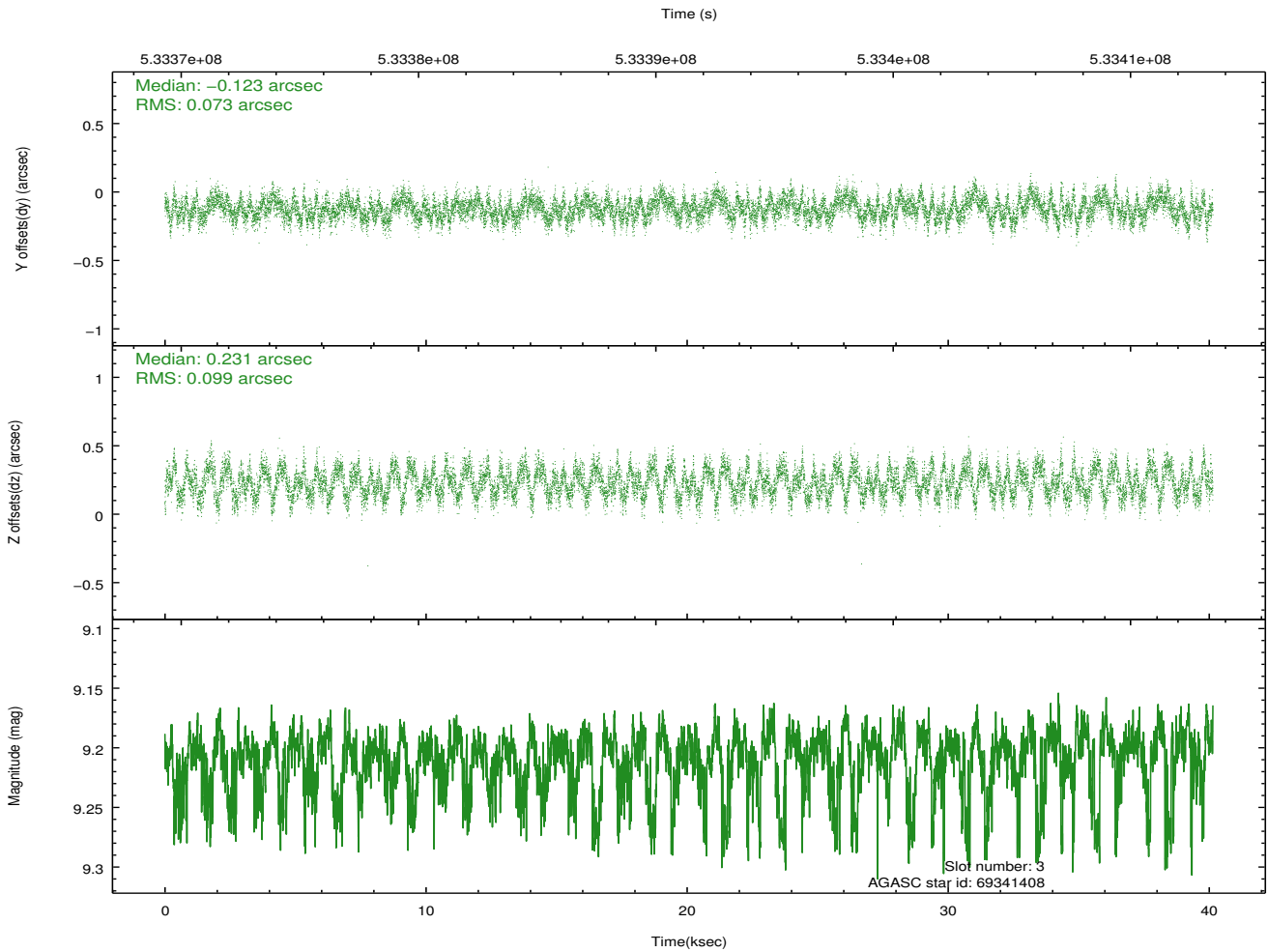
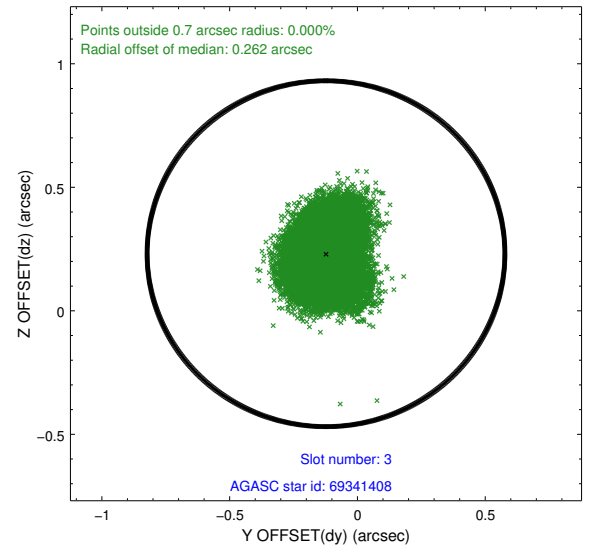
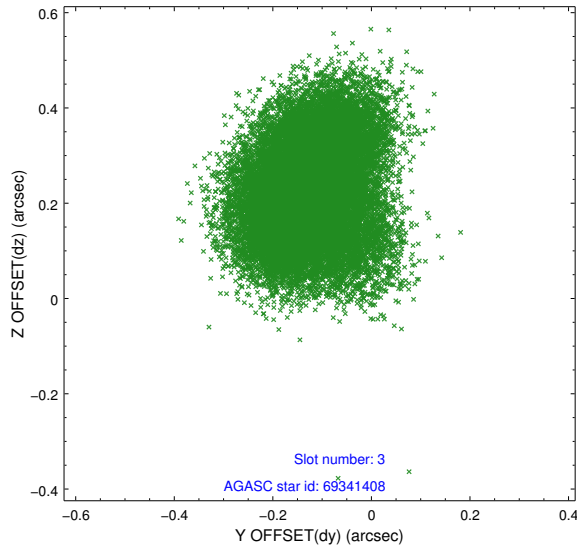


Slot Statistics

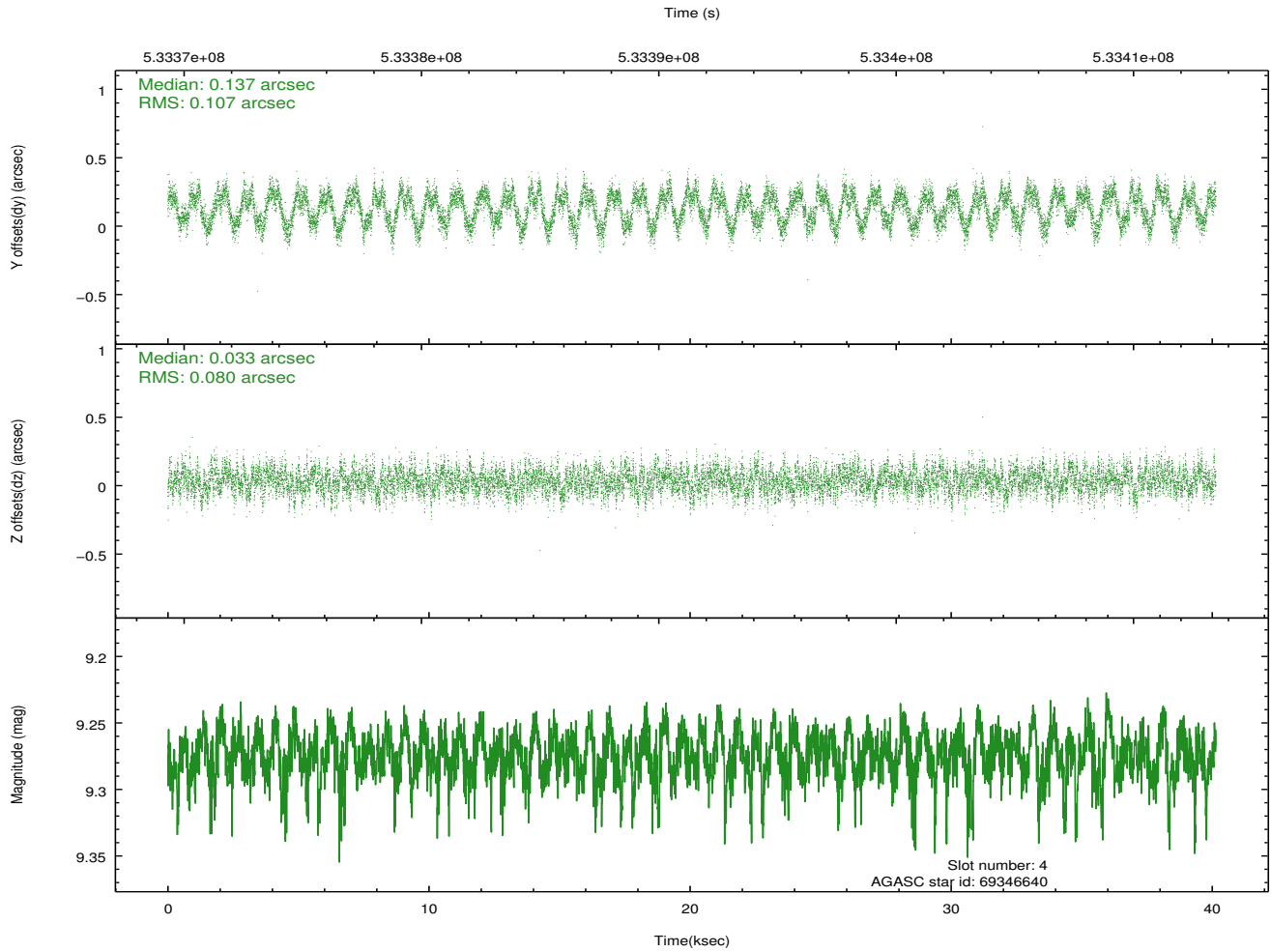
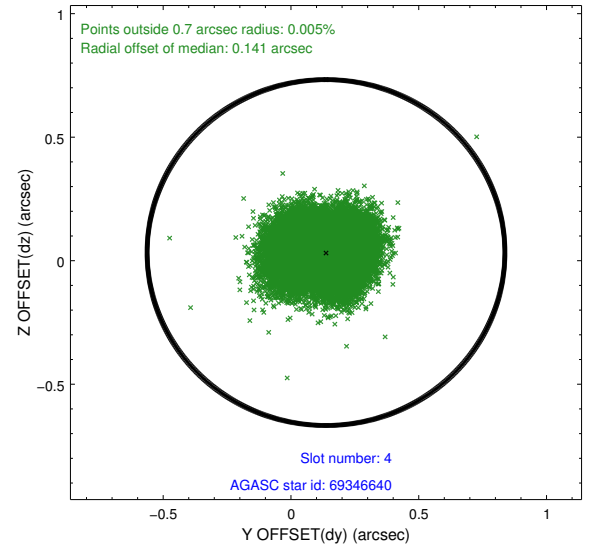
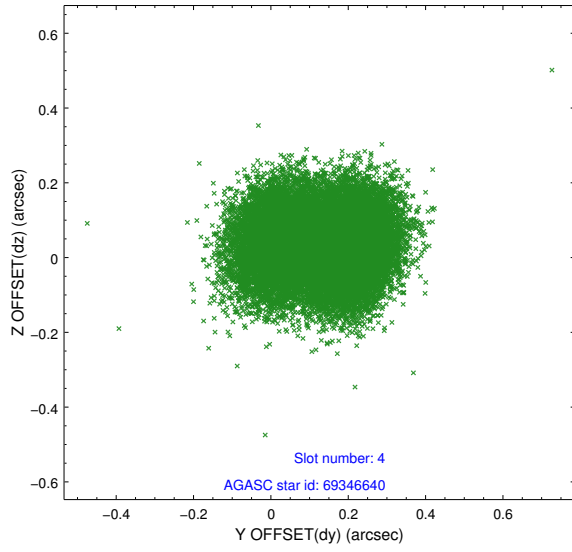
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	9793	-0.102	-0.050	0.024	0.047	0.000000	0.000000	-770.65	-1739.69
1	FID		ACIS-S-4	7.15	9793	0.244	0.062	0.022	0.062	0.000000	0.000000	2142.99	168.87
2	FID		ACIS-S-5	7.18	9792	-0.178	-0.003	0.026	0.039	0.000000	0.000000	-1823.54	162.51
3	GUIDE	used	69341408	9.21	19563	-0.123	0.231	0.134	0.208	322.446246	0.142198	-1374.13	-154.76
4	GUIDE	used	69346640	9.27	19569	0.137	0.033	0.145	0.221	322.251381	0.037055	-1189.91	-931.53
5	GUIDE	used	71042728	9.17	19569	-0.060	-0.153	0.123	0.208	322.833566	0.458135	-2112.20	1485.11
6	GUIDE	used	682627808	9.49	19565	0.062	-0.171	0.162	0.264	322.724561	-0.472766	1023.51	239.02
7	GUIDE	used	680923504	9.46	19559	0.015	0.092	0.221	0.339	321.970587	-0.475858	332.39	-2385.14

2.4 Star Slots

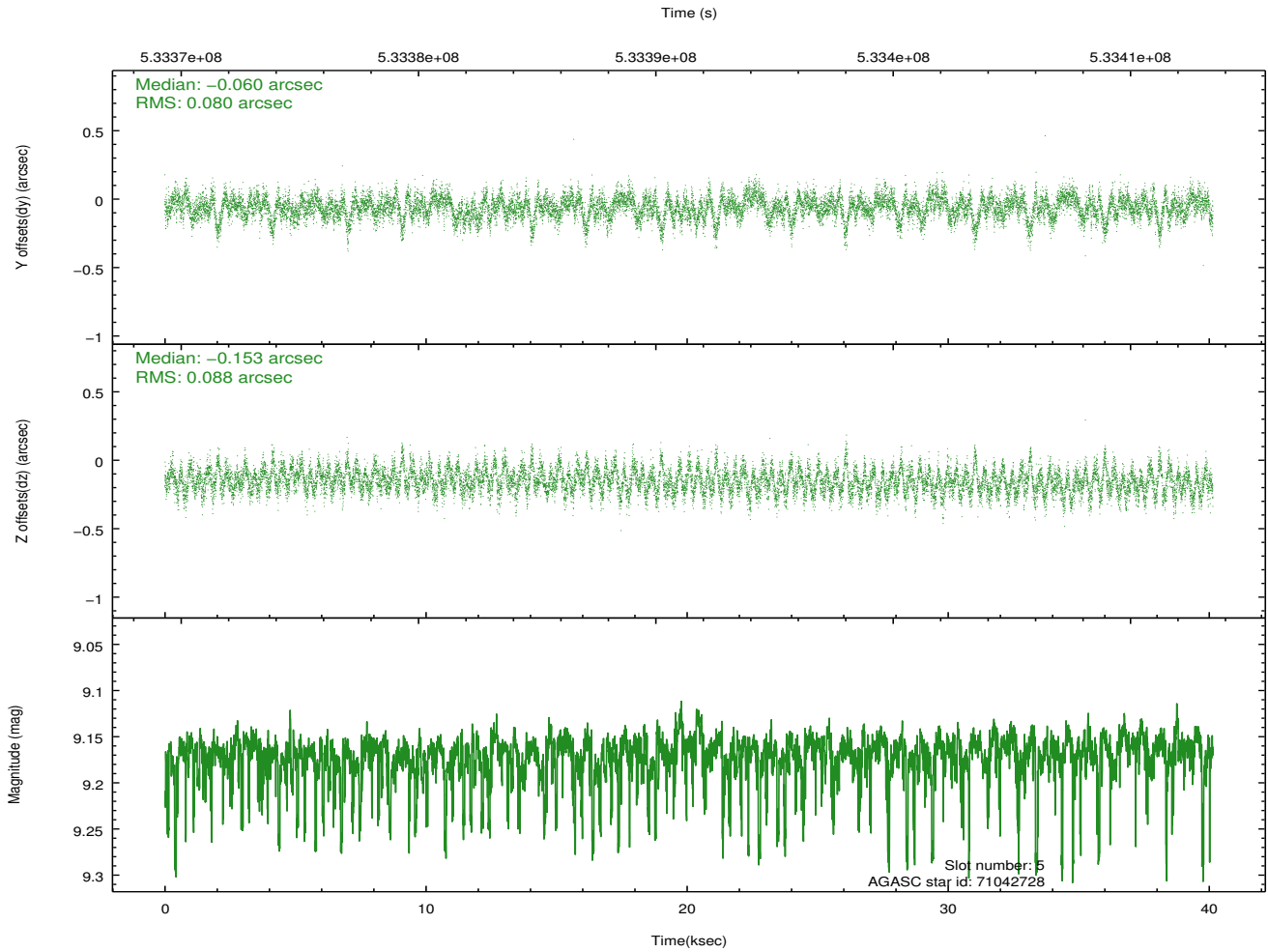
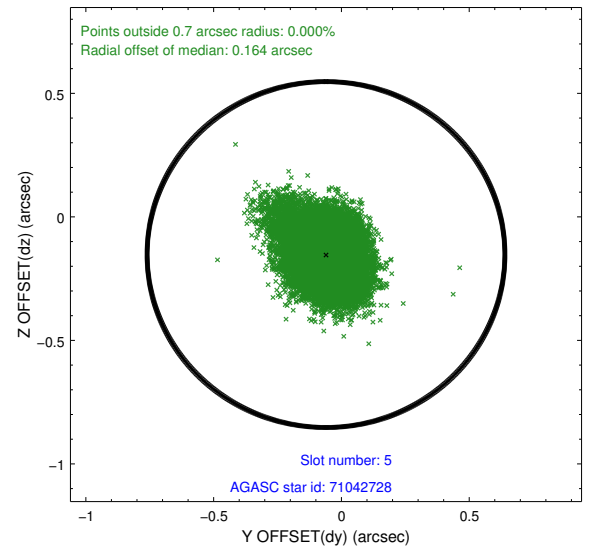
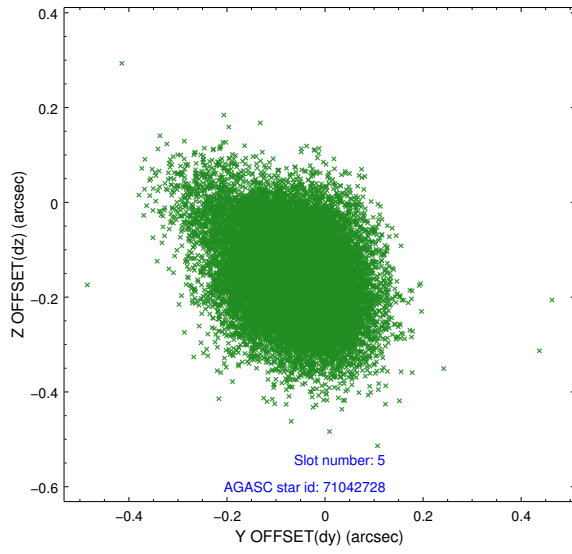
2.4.1 Slot 3



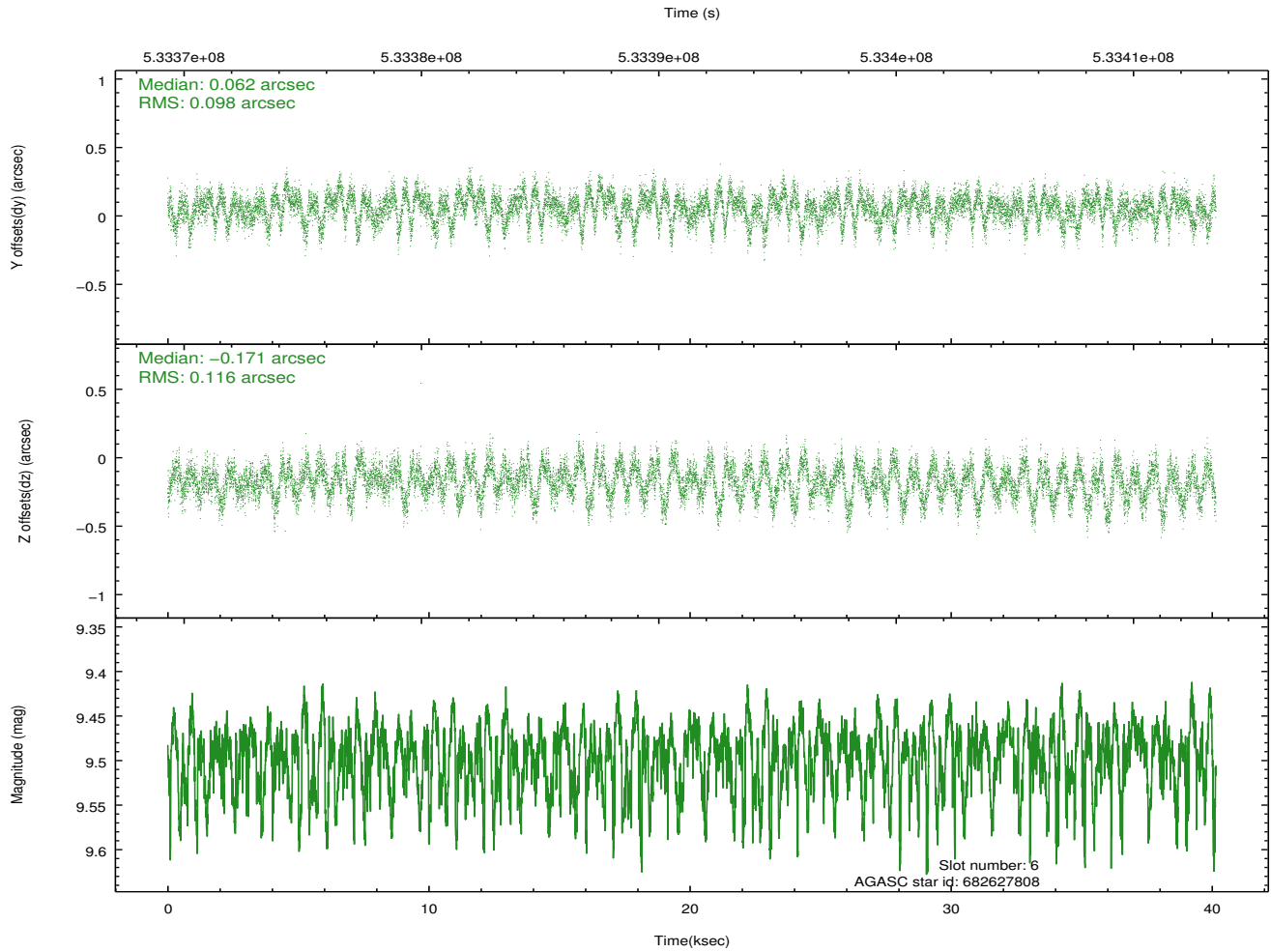
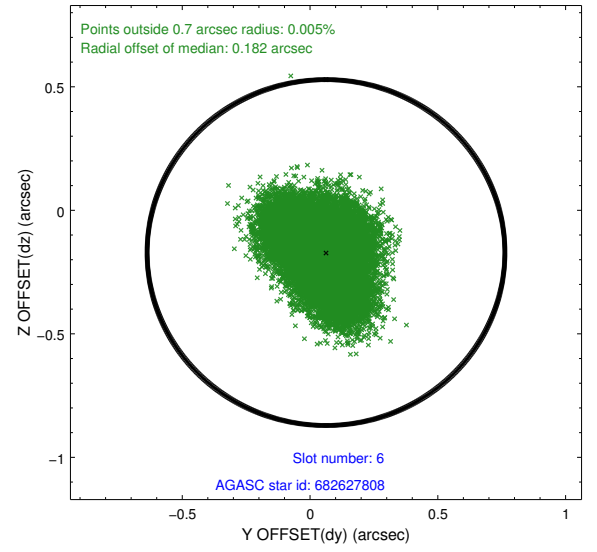
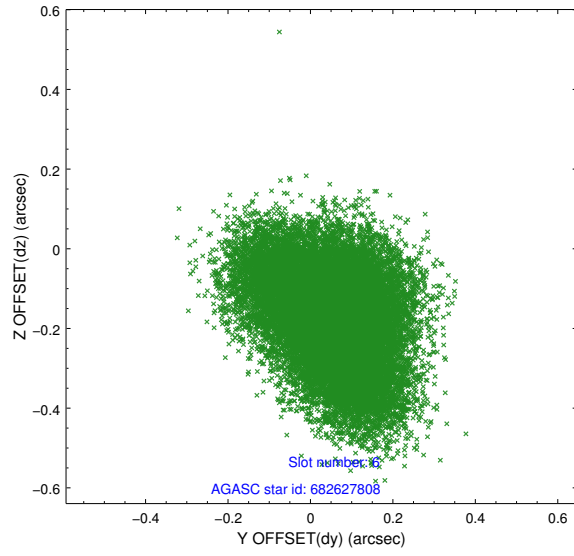
2.4.2 Slot 4



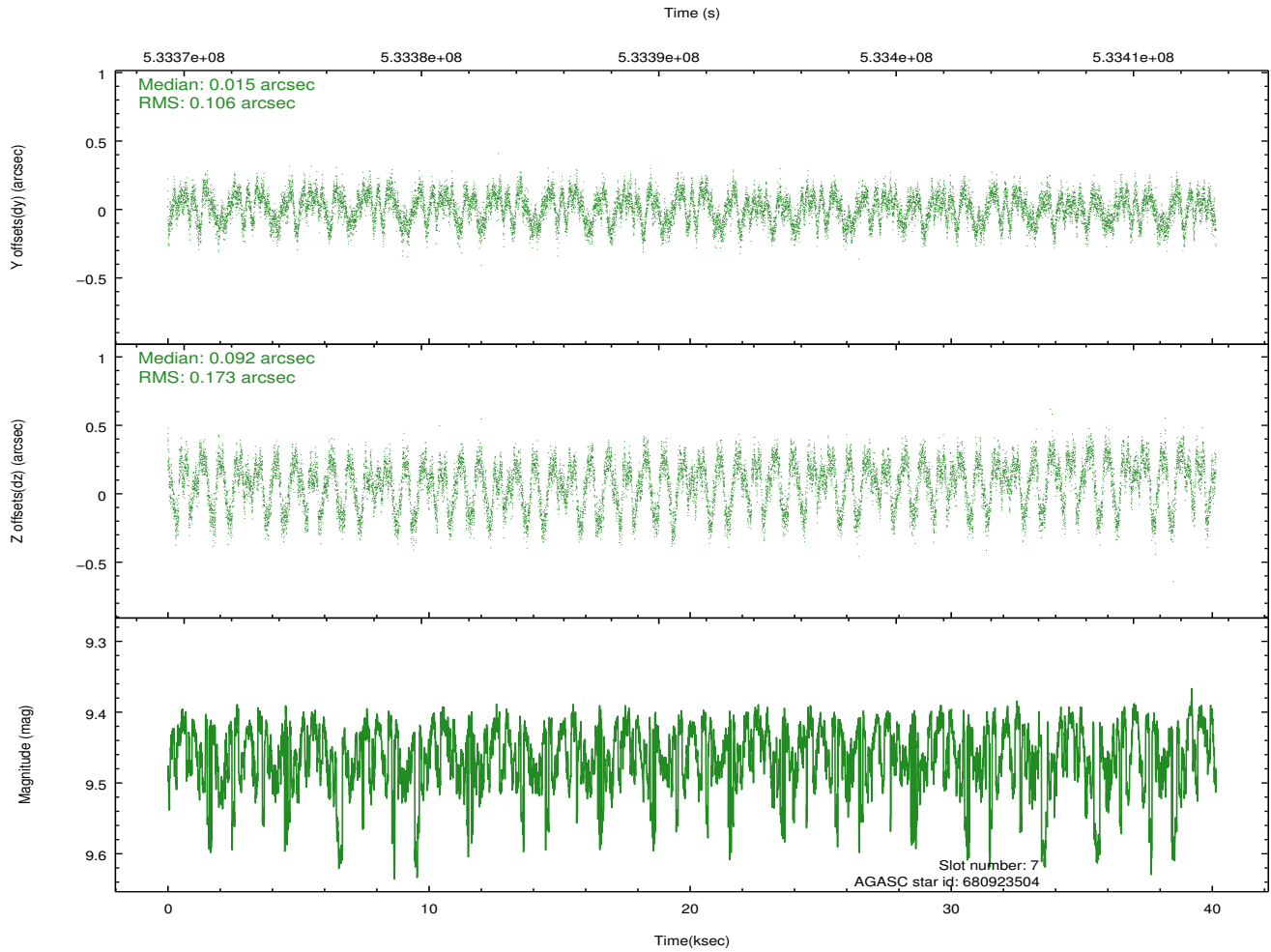
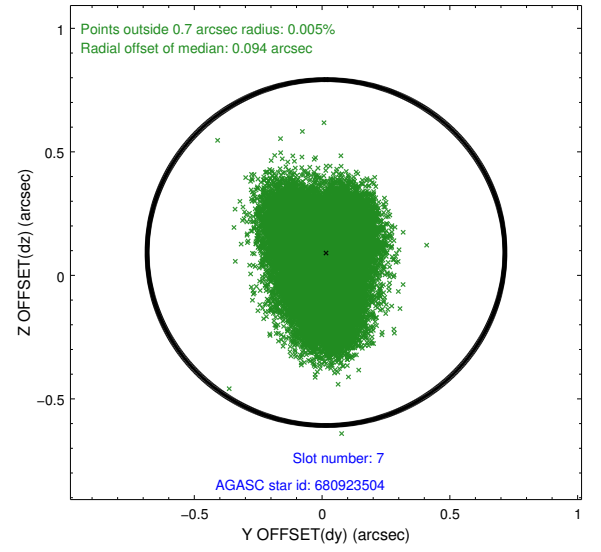
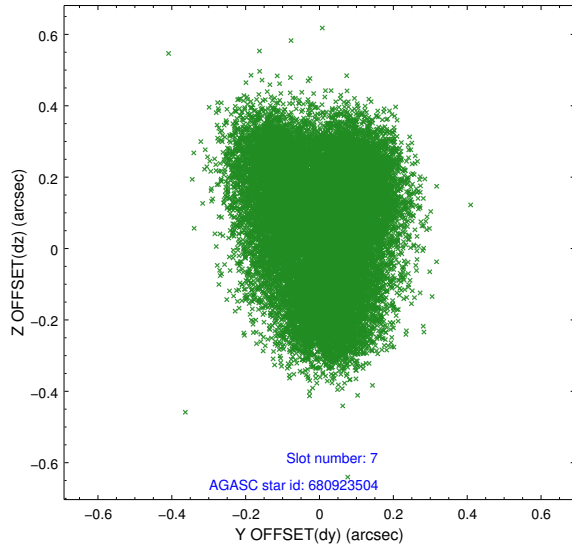
2.4.3 Slot 5



2.4.4 Slot 6

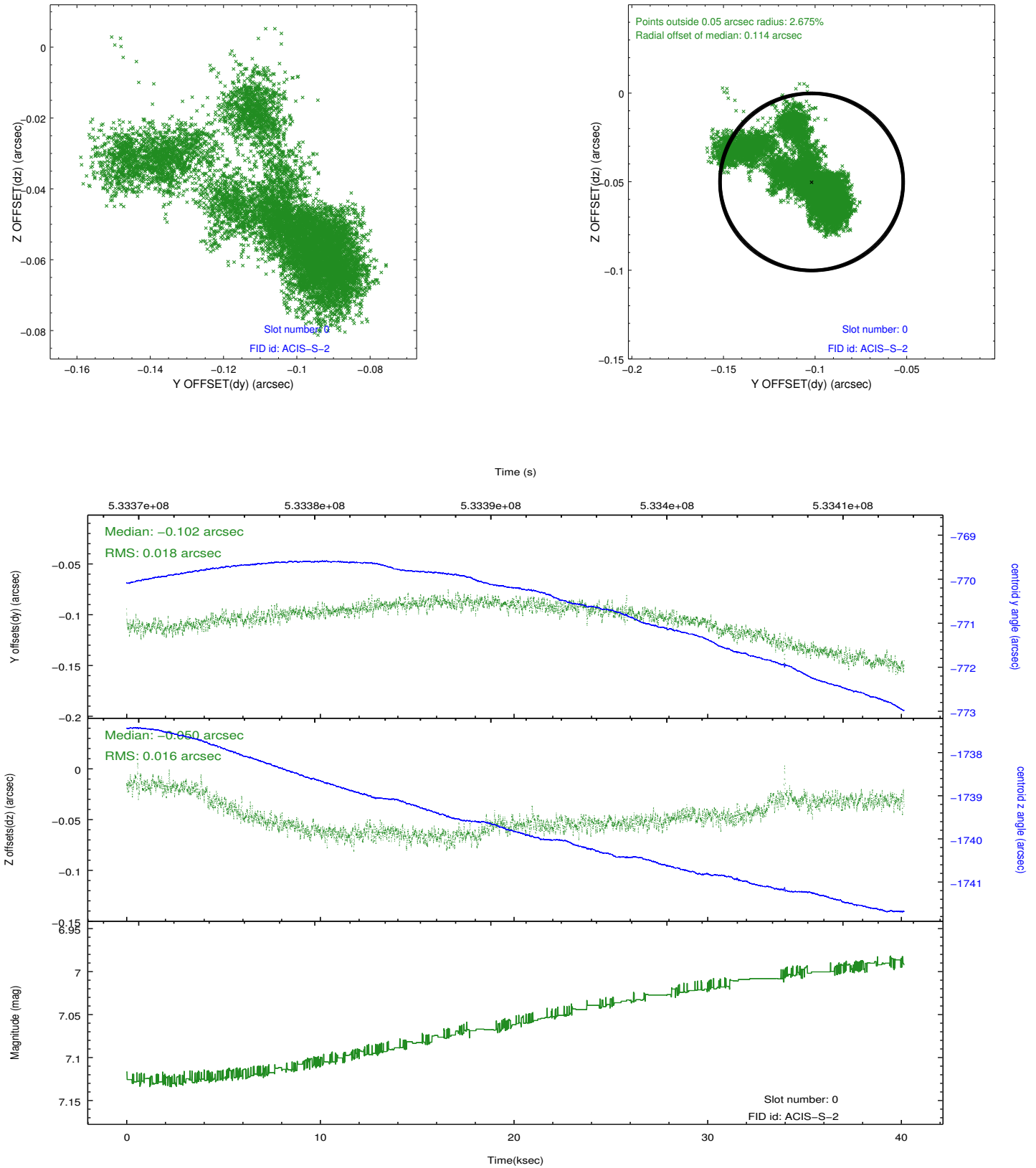


2.4.5 Slot 7

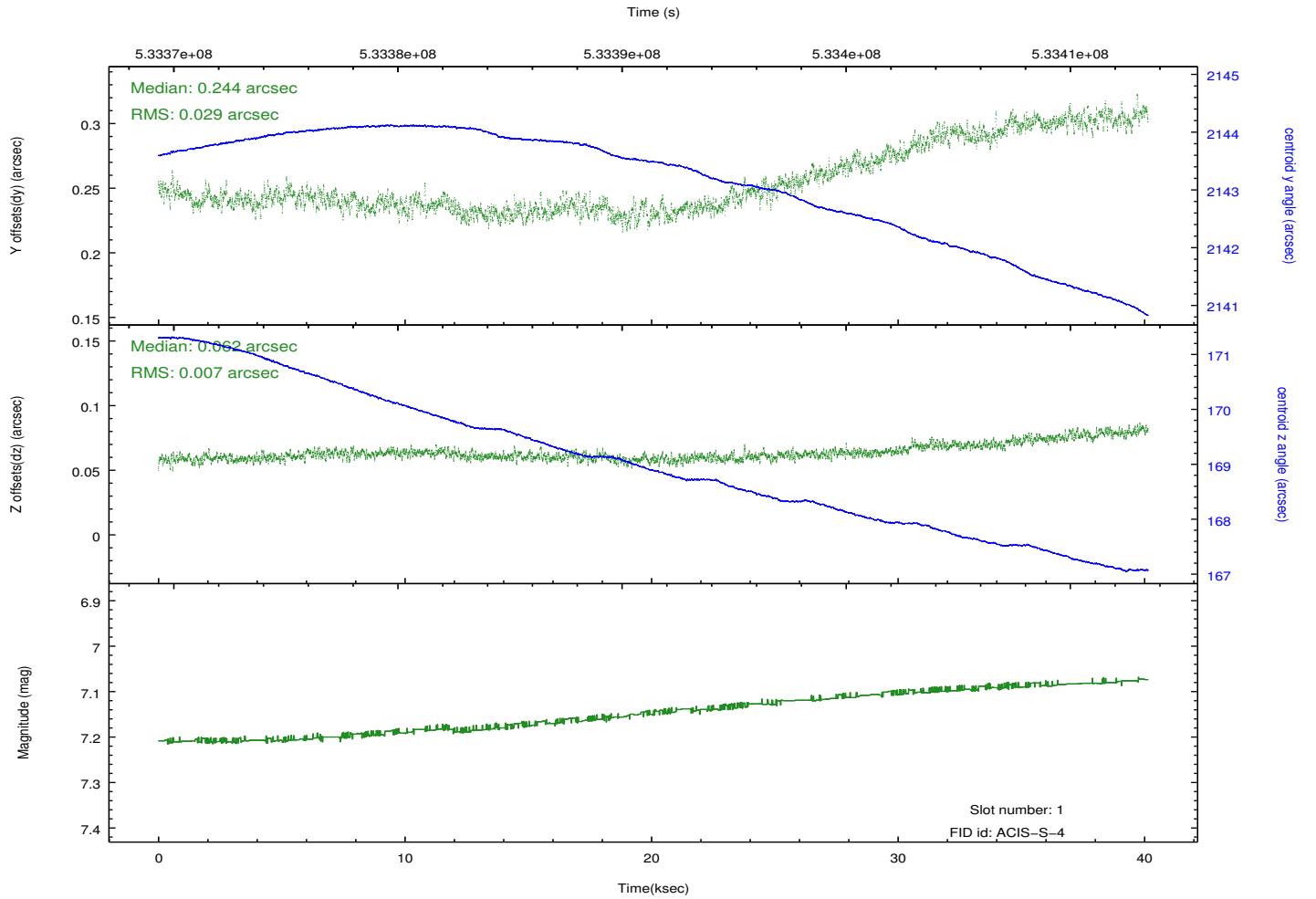
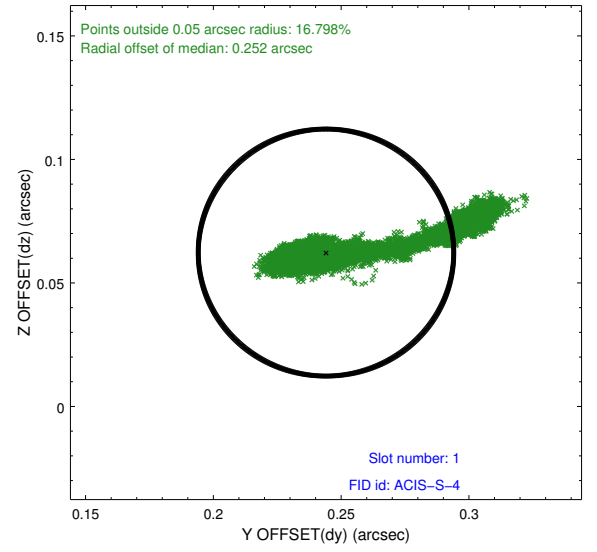
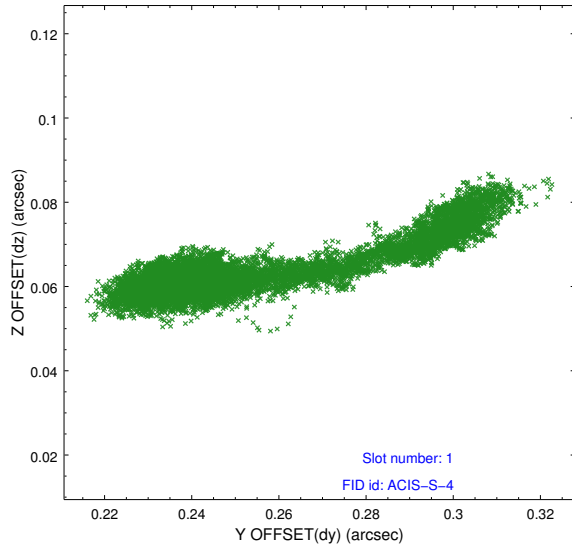


2.5 FID Slots

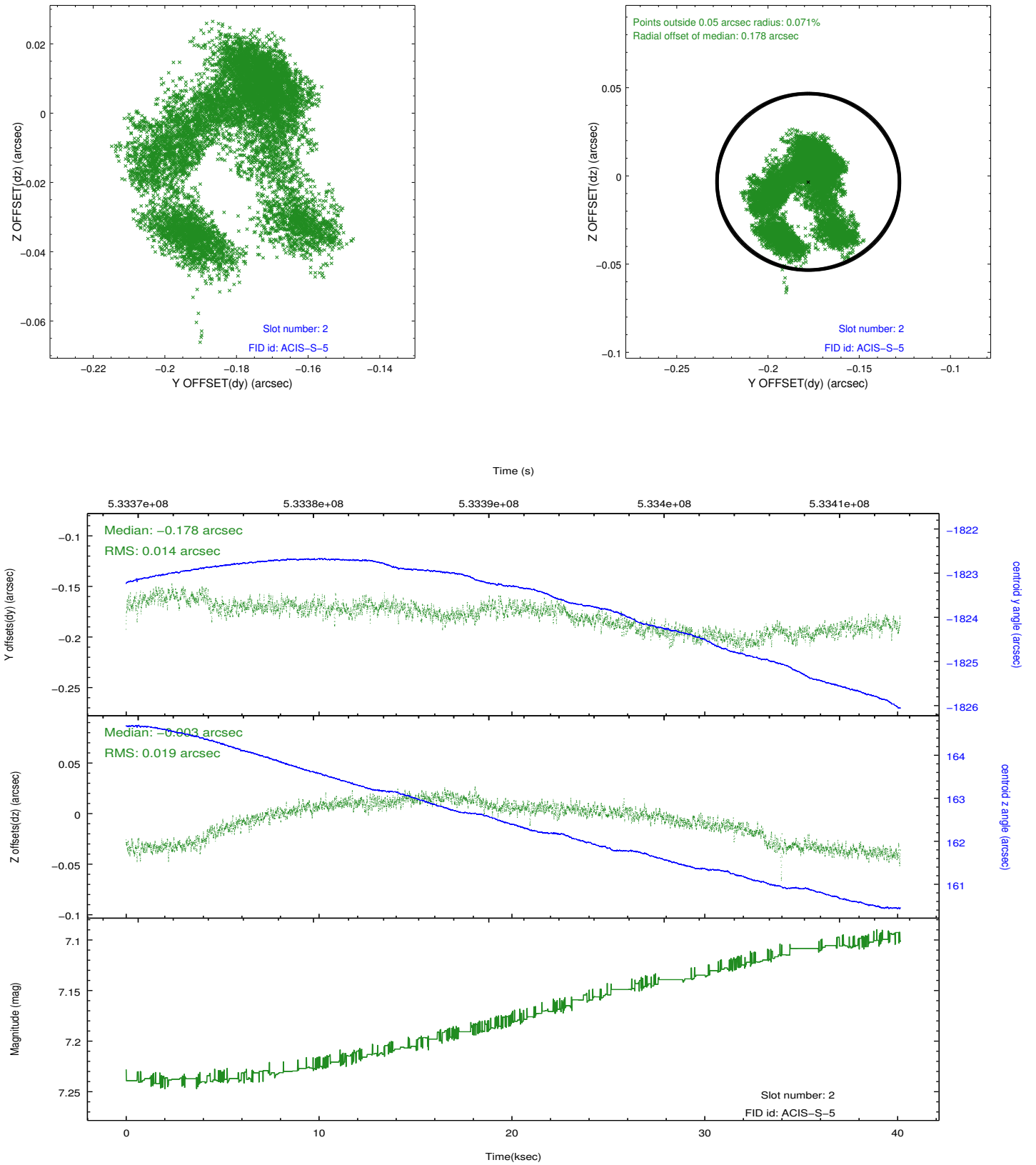
2.5.1 Slot 0



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)	2014.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.958399851203

A.2 Comments