

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17212 - L2 Version 2
Chandra X-Ray Center

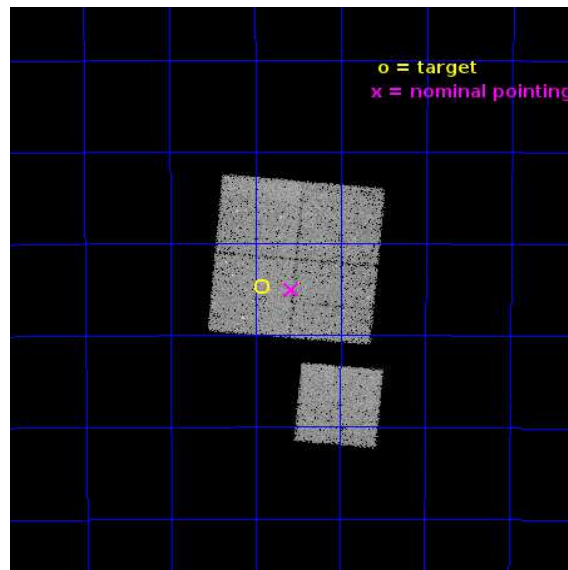
L2 Processing Date : May 19 2016

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1 Front

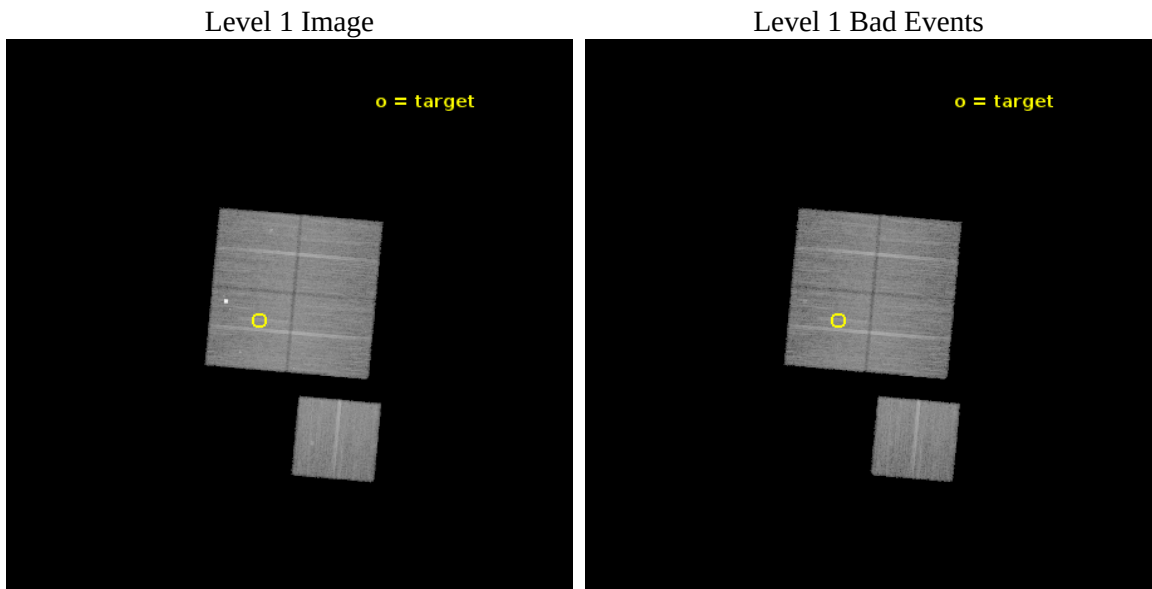
seq_num	801492	Sequence number
obs_id	17212	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0313-5334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	48.480833	Observer's specified target RA [deg]
dec_targ	-53.578111	Observer's specified target Dec [deg]
ra_nom	48.394326786291	Nominal RA [deg]
dec_nom	-53.584241737762	Nominal Dec [deg]
roll_nom	185.1390735749	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25072.800192952	Sum of GTIs [s]
livetime	24745.205600104	Livetime [s]
ontime0	25072.800192952	Sum of GTIs [s]
ontime1	25069.659202695	Sum of GTIs [s]
ontime2	25072.800192952	Sum of GTIs [s]
ontime3	25072.800192952	Sum of GTIs [s]
ontime6	25072.800192952	Sum of GTIs [s]
l2events	73929	Number of level 2 events



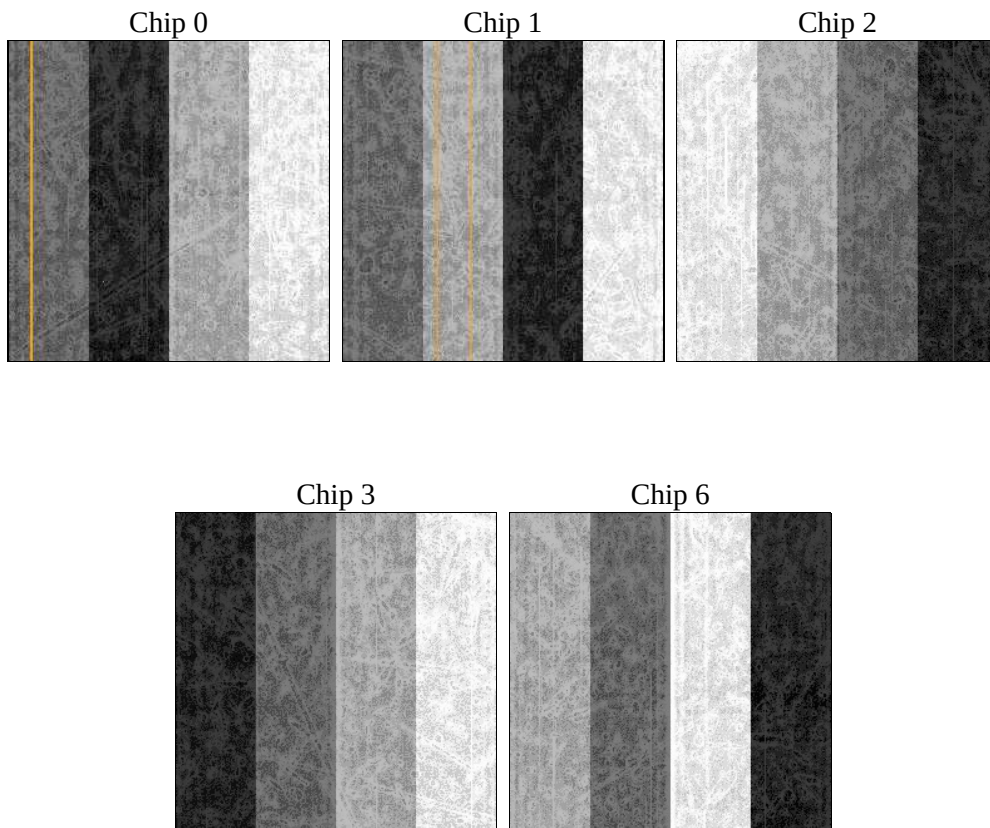
2 OBI

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	10.4.3.1	Processing system revision	ontime	25072.800192952	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	25072.800192952	Sum of GTIs [s]
date	2016-05-19T17:09:10	Date and time of file creation	ontime1	25069.659202695	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25072.800192952	Sum of GTIs [s]
			ontime3	25072.800192952	Sum of GTIs [s]
			ontime6	25072.800192952	Sum of GTIs [s]
			l1events	794749	Number of level 1 events

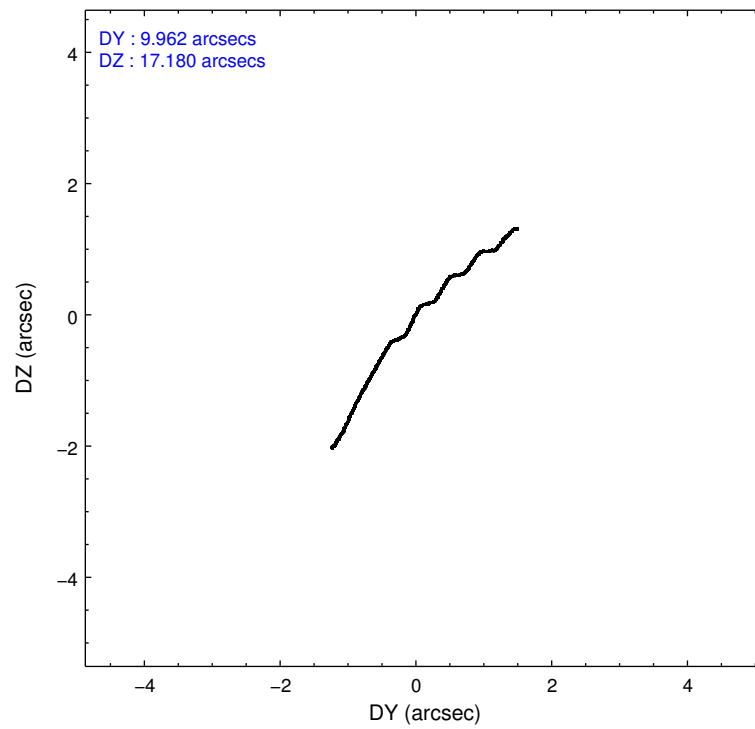
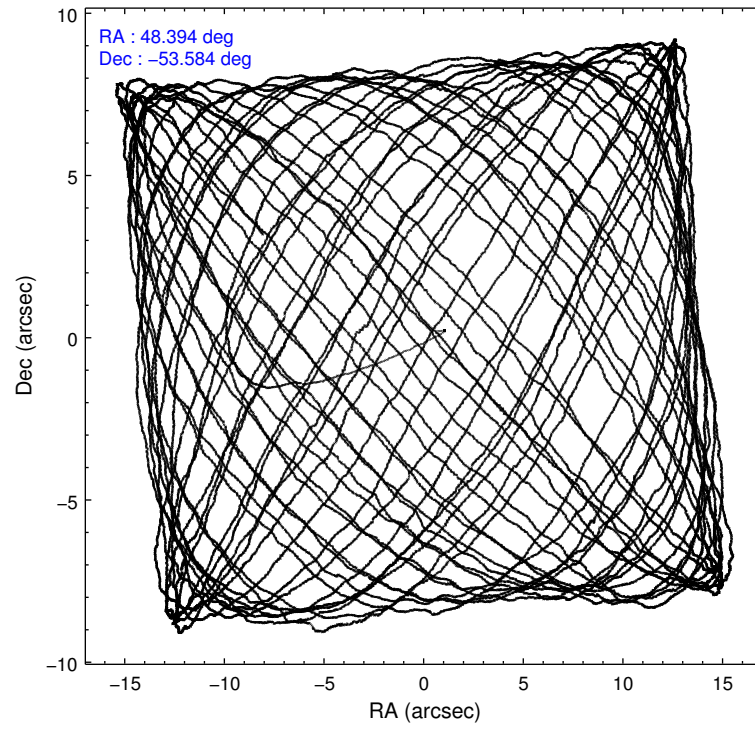
2.1.4 Events

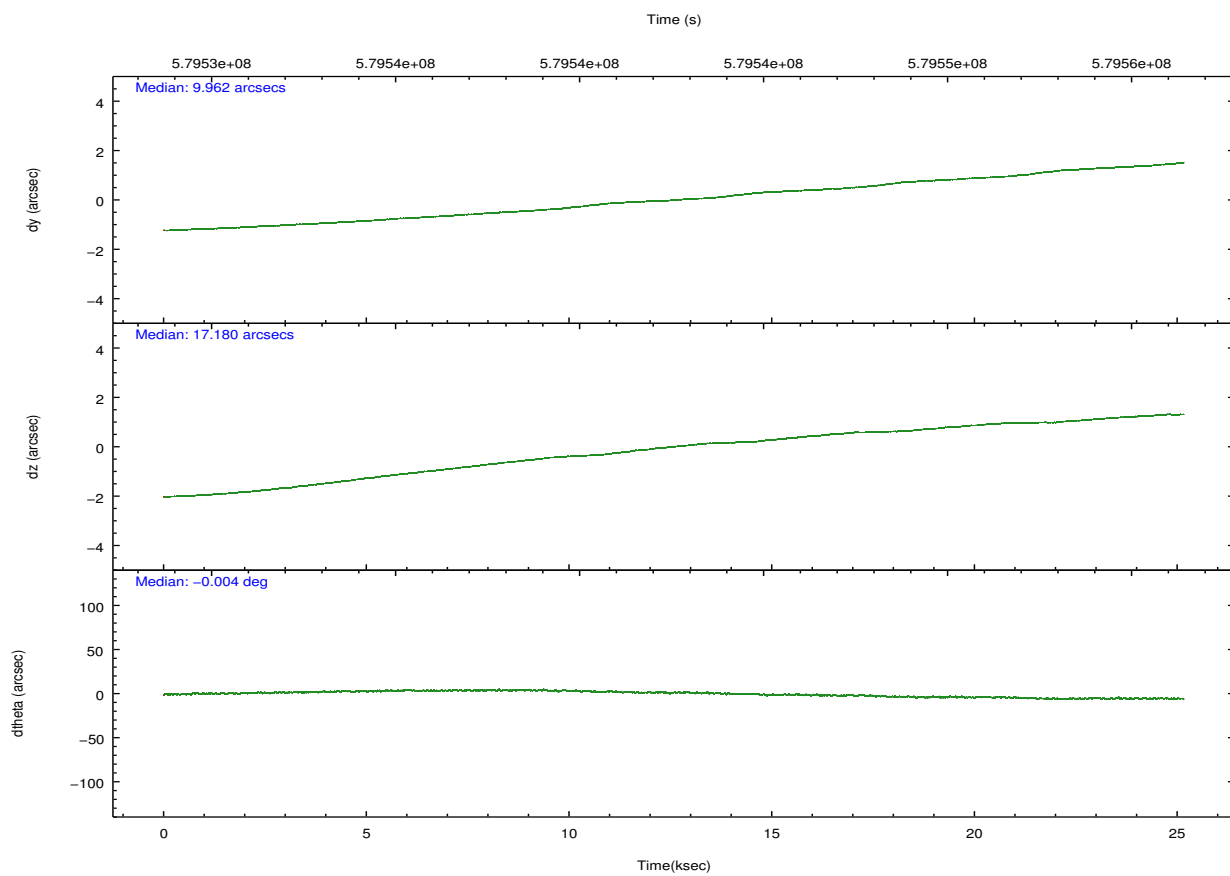
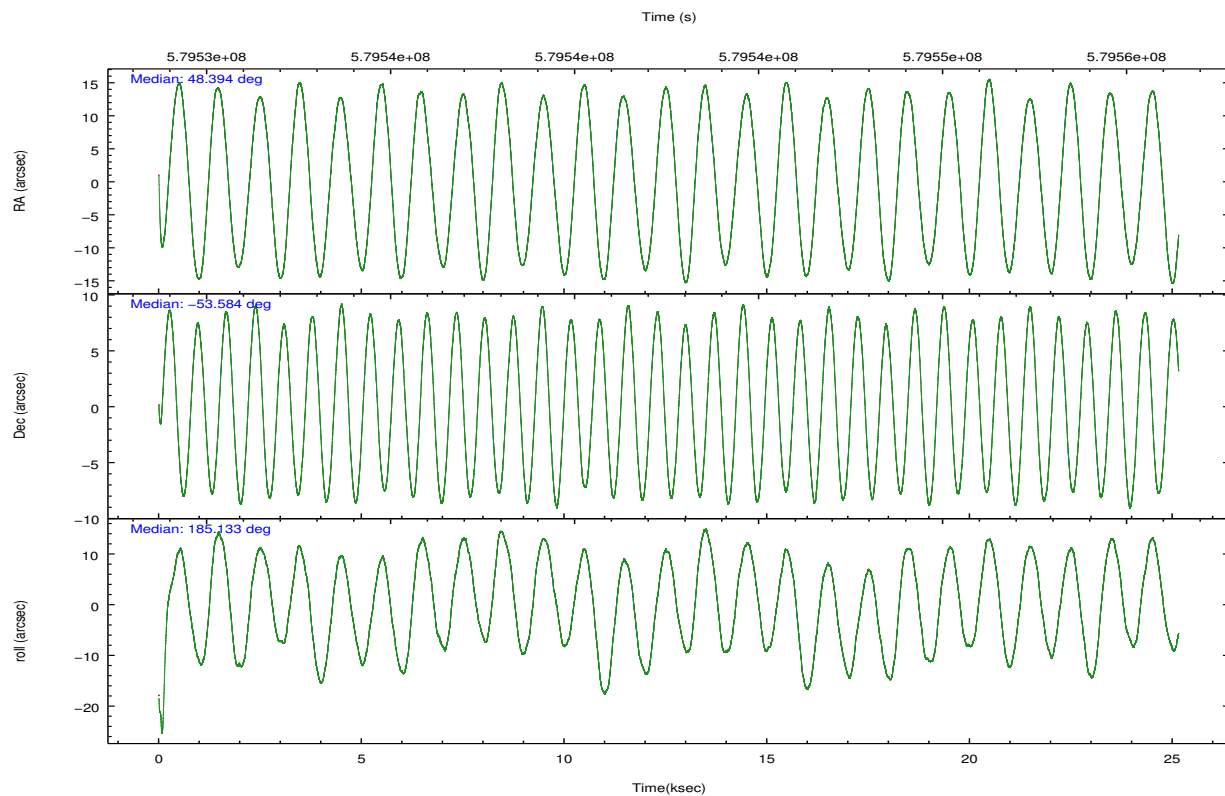
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	147505	148307	162252	175256	161429	grade 0 events	5589	6654	5926	21401	5762
rejected events	130414	128790	145450	142935	143424		3%	4%	3%	12%	3%
rejected %	88%	86%	89%	81%	88%	grade 1 events	70	83	93	171	64
							0%	0%	0%	0%	0%
						grade 2 events	4400	4914	4119	3798	4388
							2%	3%	2%	2%	2%
						grade 3 events	1797	1863	1659	1810	1780
							1%	1%	1%	1%	1%
						grade 4 events	1703	1794	1717	1785	1727
							1%	1%	1%	1%	1%
						grade 5 events	6599	6926	6170	7790	7280
							4%	4%	3%	4%	4%
						grade 6 events	3605	4293	3383	3529	4349
							2%	2%	2%	2%	2%
						grade 7 events	123742	121780	139185	134972	136079
							83%	82%	85%	77%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	48.432250	48.39432678629126	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.568278	-53.58424173776198	CCD I3 on	Y	Y
[deg] Pointing Roll	184.960903	185.1390735749011	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	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	579530146.184000	579528871.72032	CCD S5 on	N	N
Observation start date	2016-05-13T12:34:38	2016-05-13T12:14:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579555146.184000	579556187.97189	On-chip summing requested	N	N
Observation end date	2016-05-13T19:31:18	2016-05-13T19:49:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



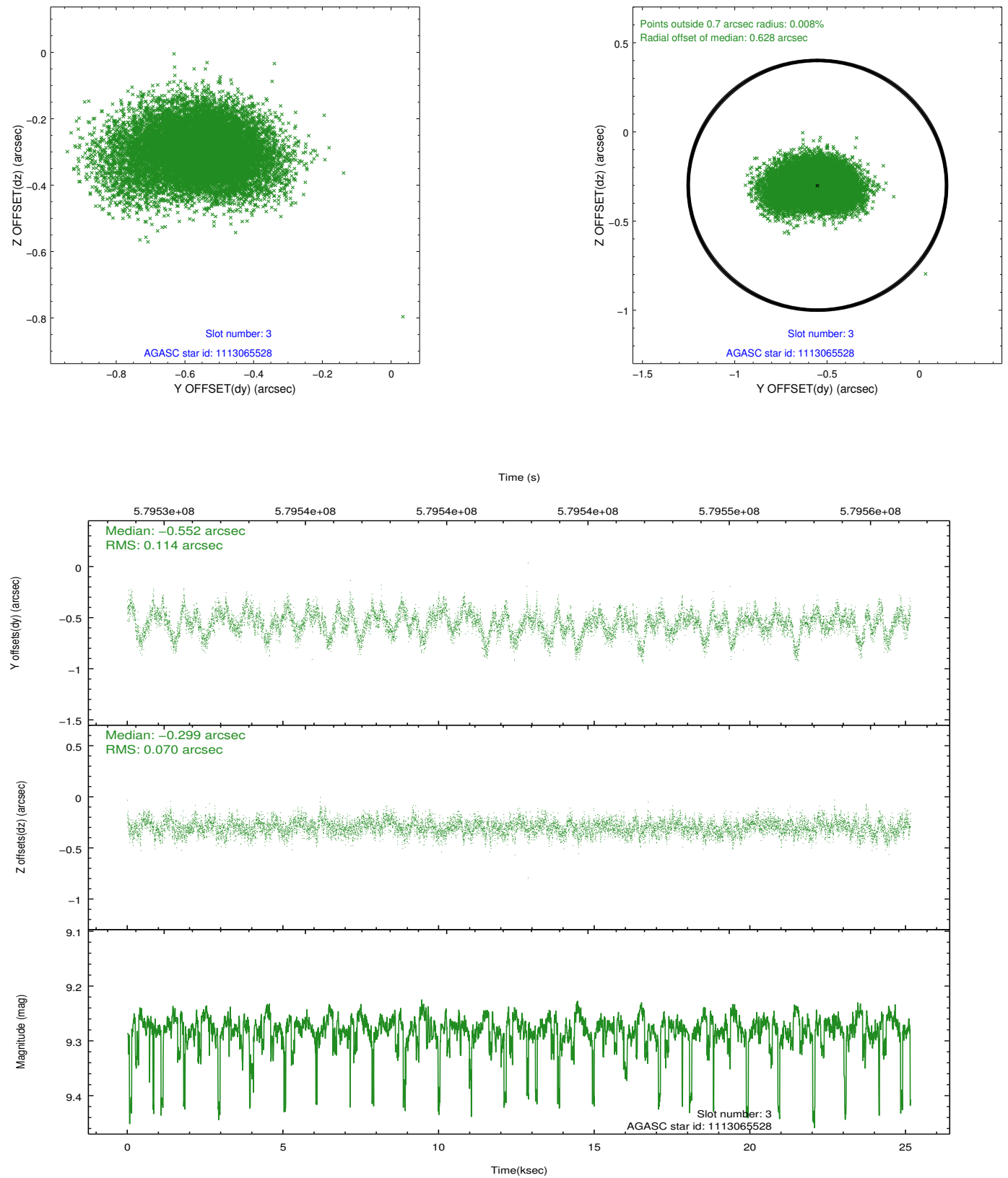


Slot Statistics

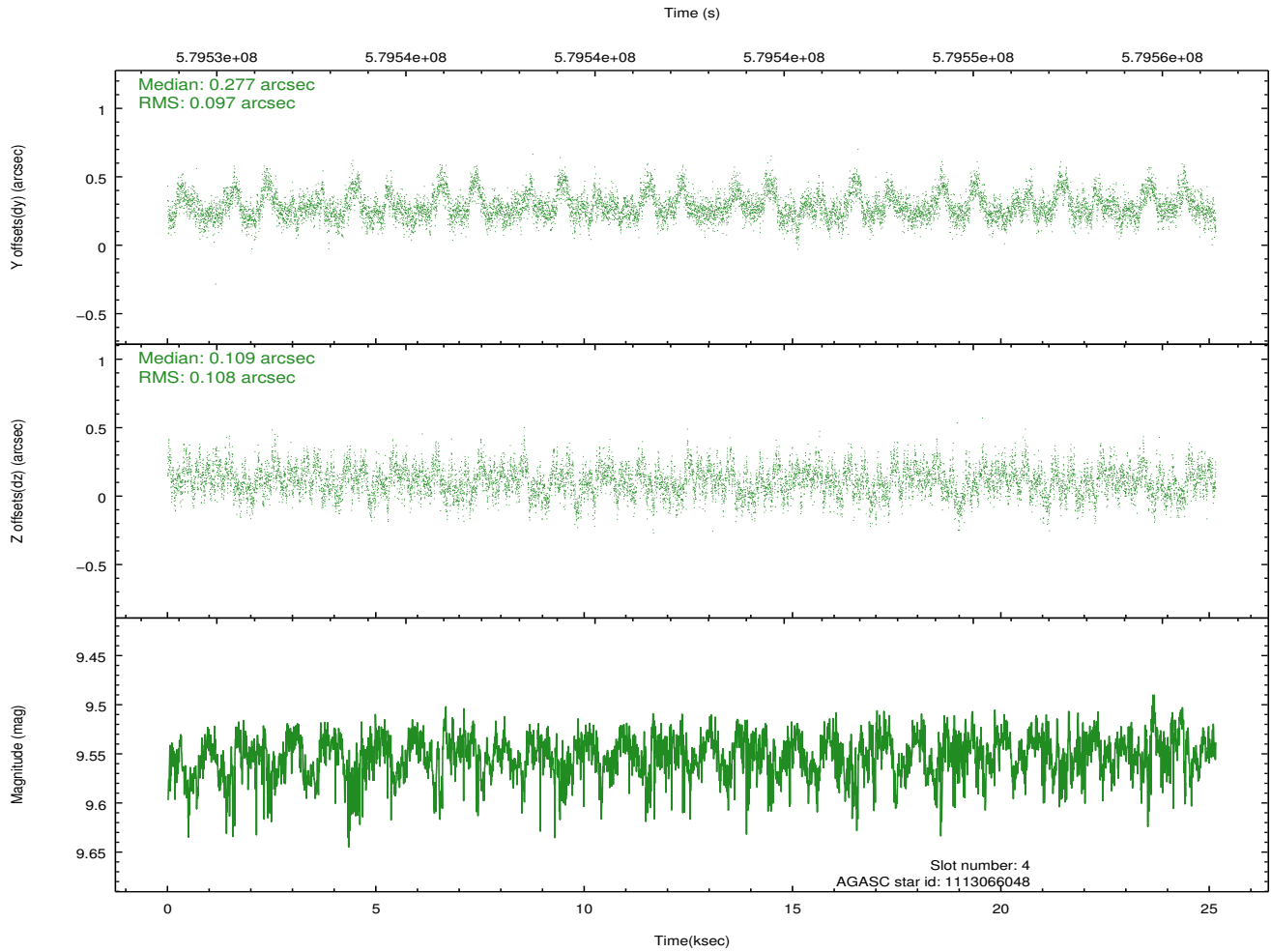
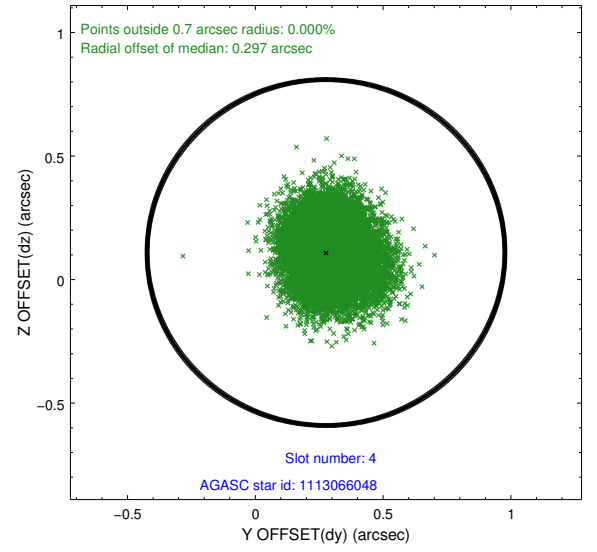
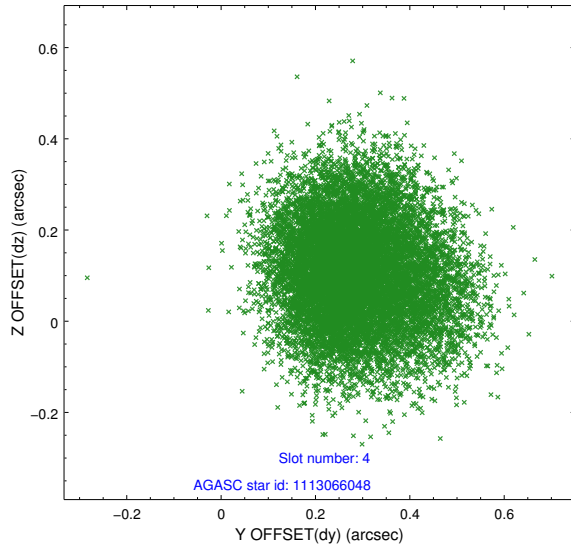
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	6136	0.147	-0.137	0.041	0.057	0.000000	0.000000	929.64	-999.86
1	FID		ACIS-I-5	7.23	6136	-0.337	0.100	0.012	0.019	0.000000	0.000000	-1818.96	897.69
2	FID		ACIS-I-6	7.27	6134	0.097	0.104	0.043	0.062	0.000000	0.000000	394.91	1542.43
3	GUIDE	used	1113065528	9.28	12262	-0.552	-0.299	0.139	0.243	47.504672	-53.789515	2034.65	636.10
4	GUIDE	used	1113066048	9.55	12249	0.277	0.109	0.156	0.252	48.443285	-53.325384	-99.34	-868.79
5	GUIDE	used	1113195256	9.04	12261	0.185	0.315	0.165	0.249	49.190556	-52.928407	-1836.69	-2141.83
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	1113197496	10.11	12254	0.076	-0.143	0.221	0.360	49.578432	-53.876647	-2326.79	1335.55

2.4 Star Slots

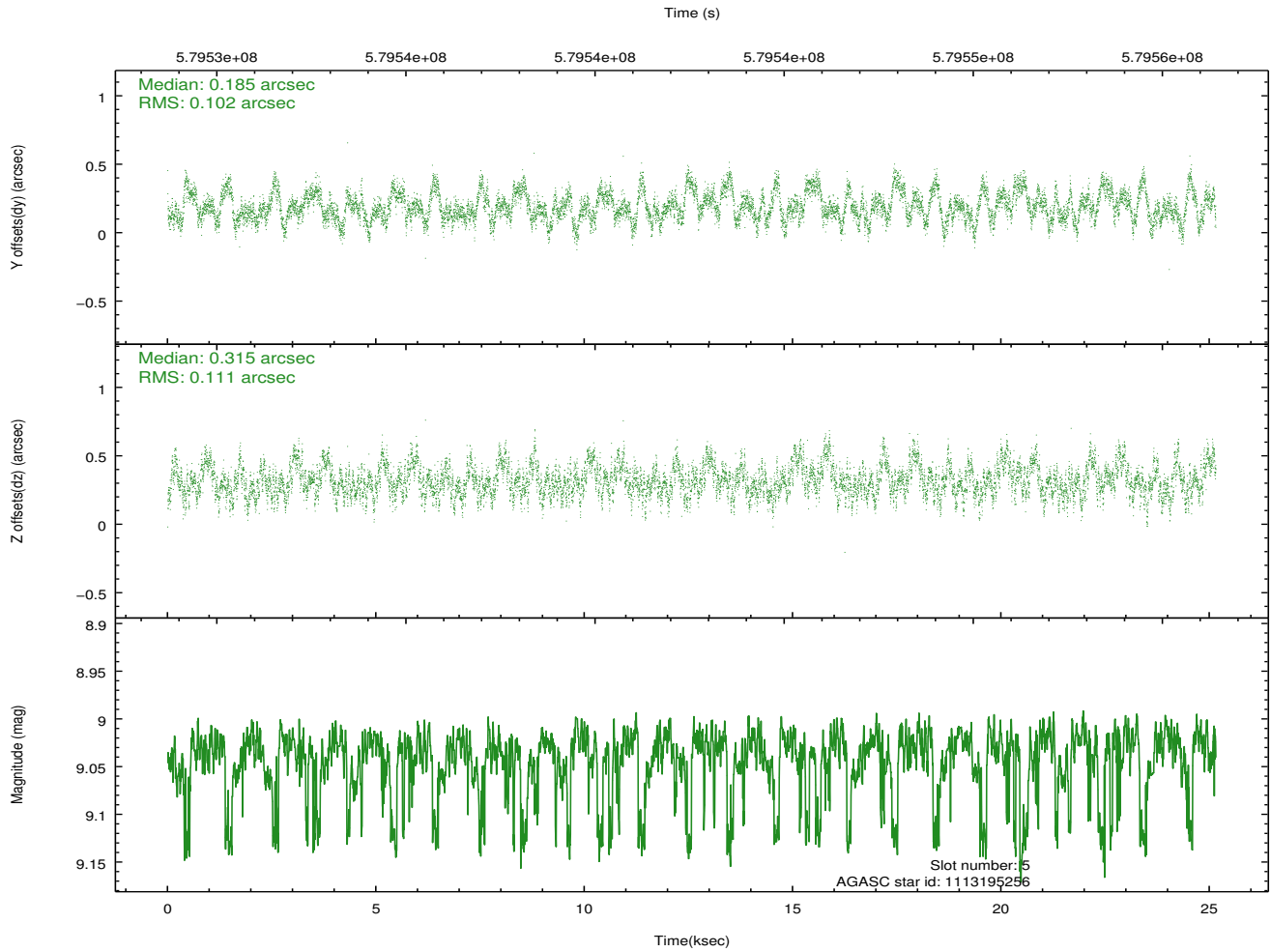
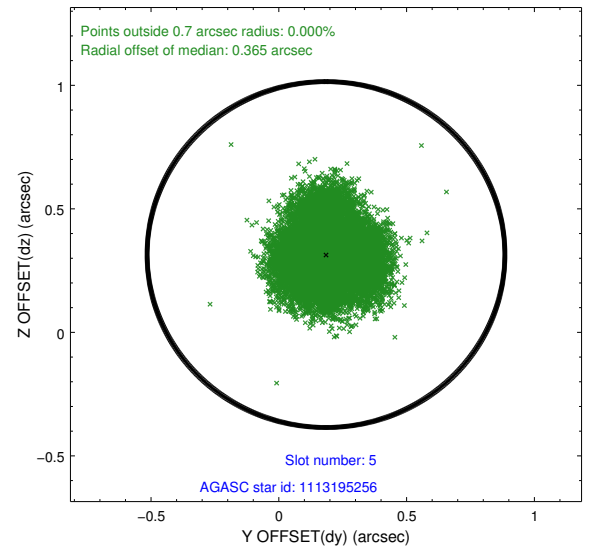
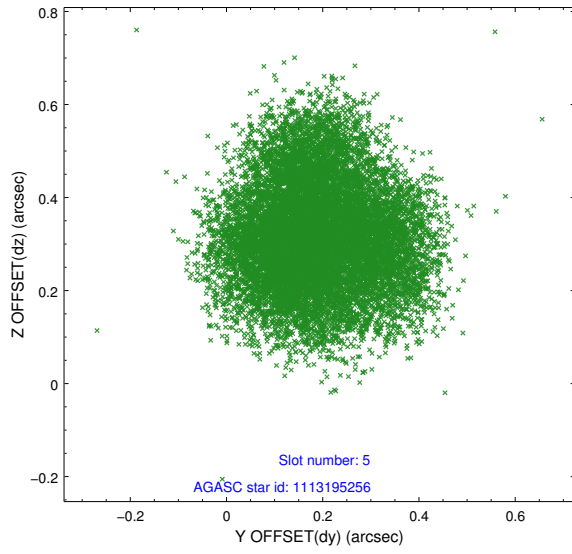
2.4.1 Slot 3



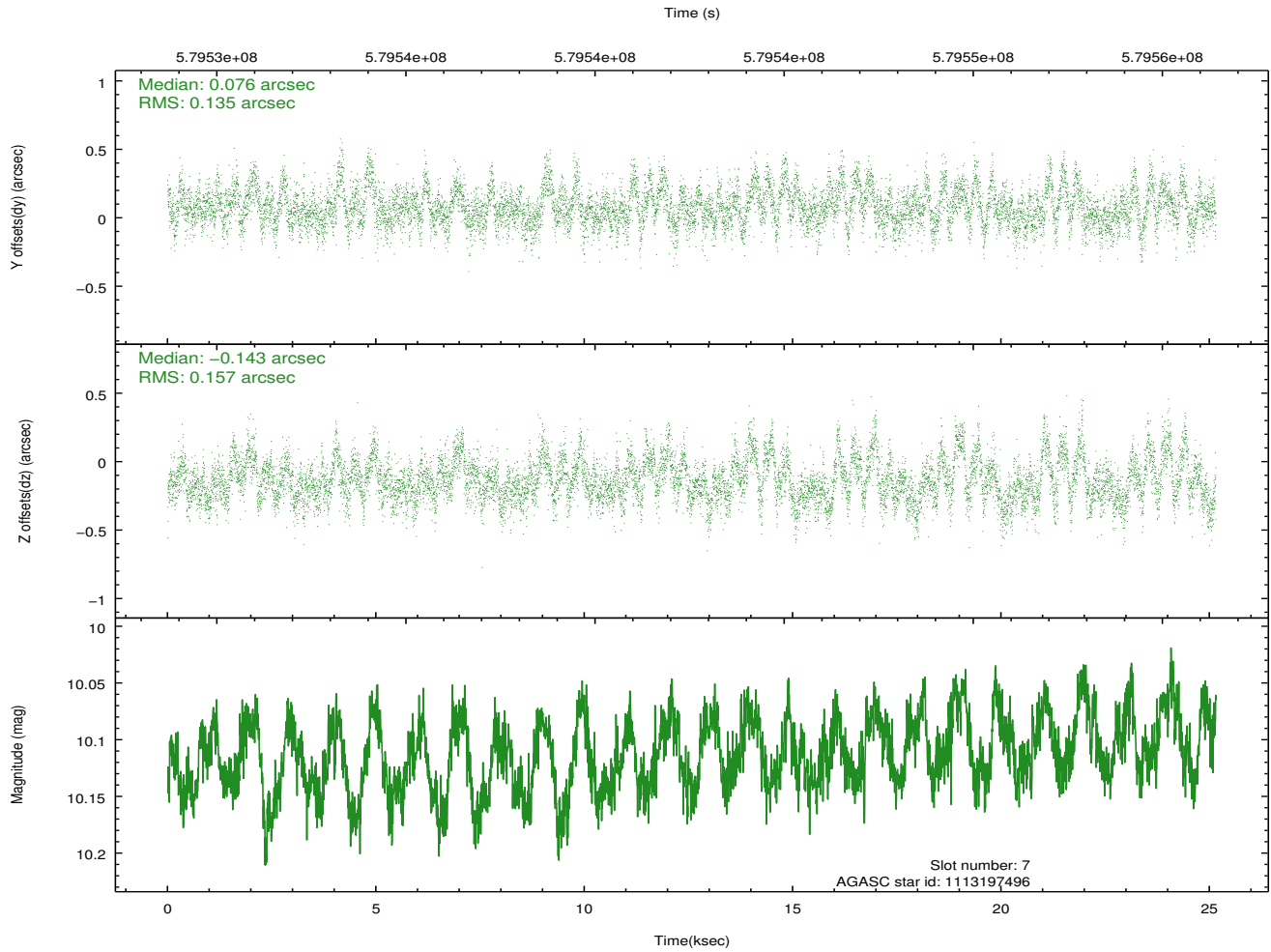
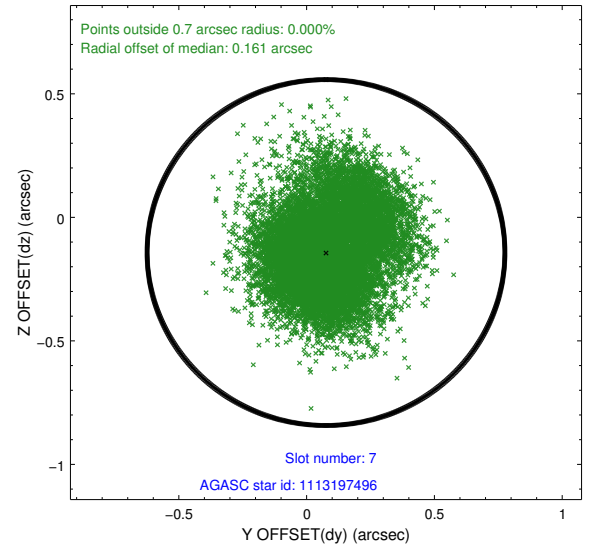
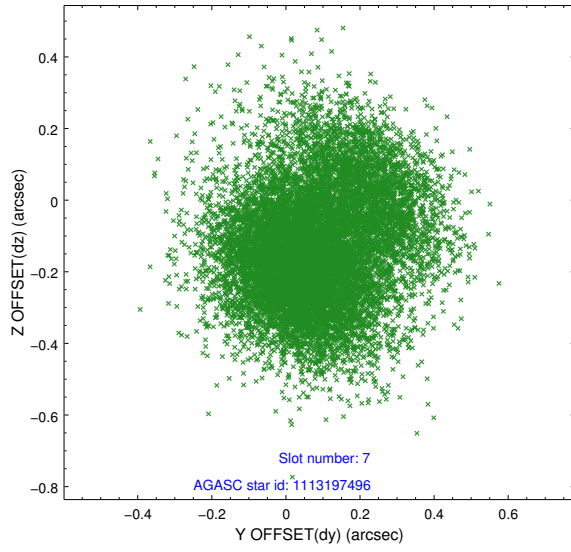
2.4.2 Slot 4



2.4.3 Slot 5

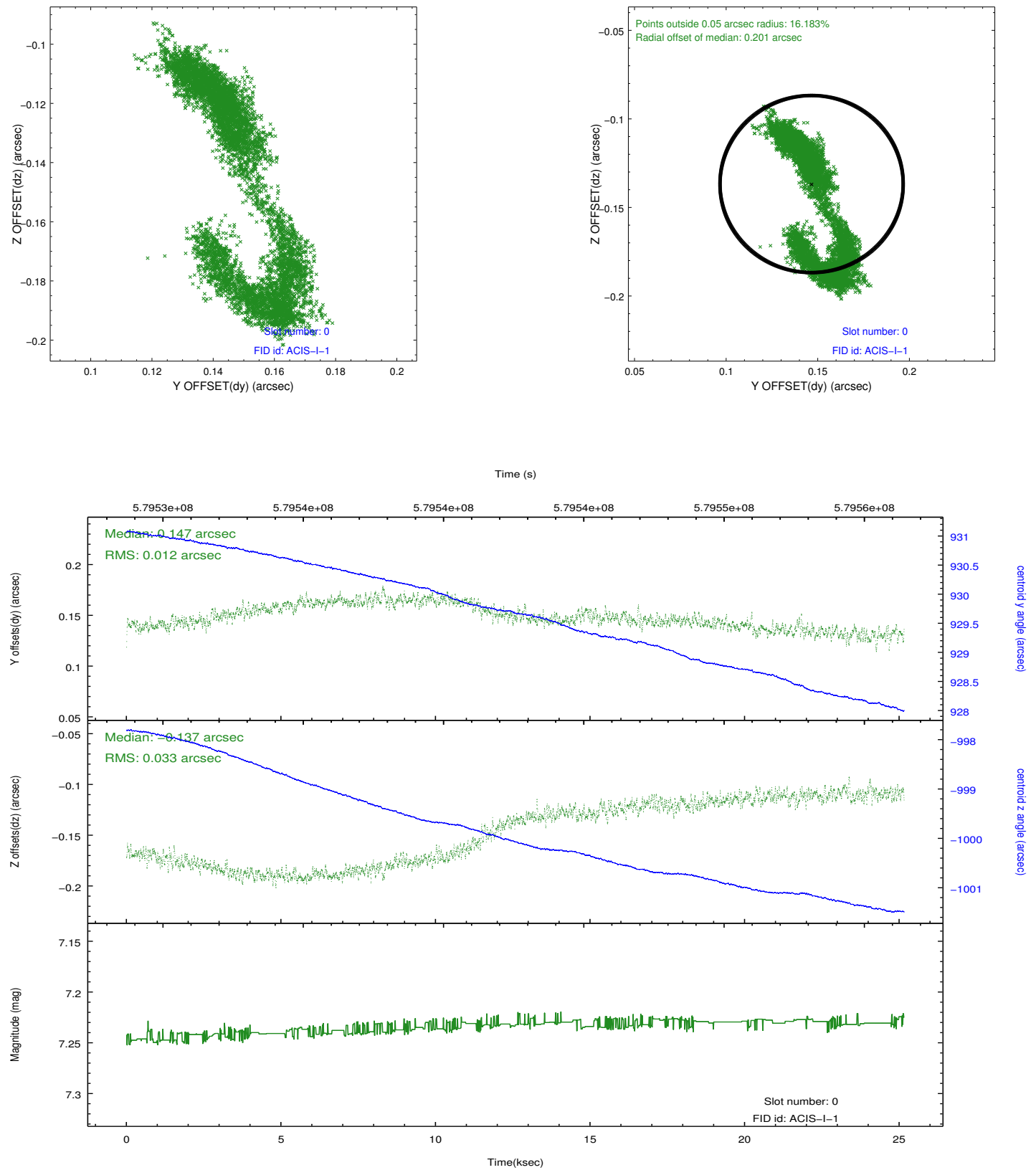


2.4.4 Slot 7

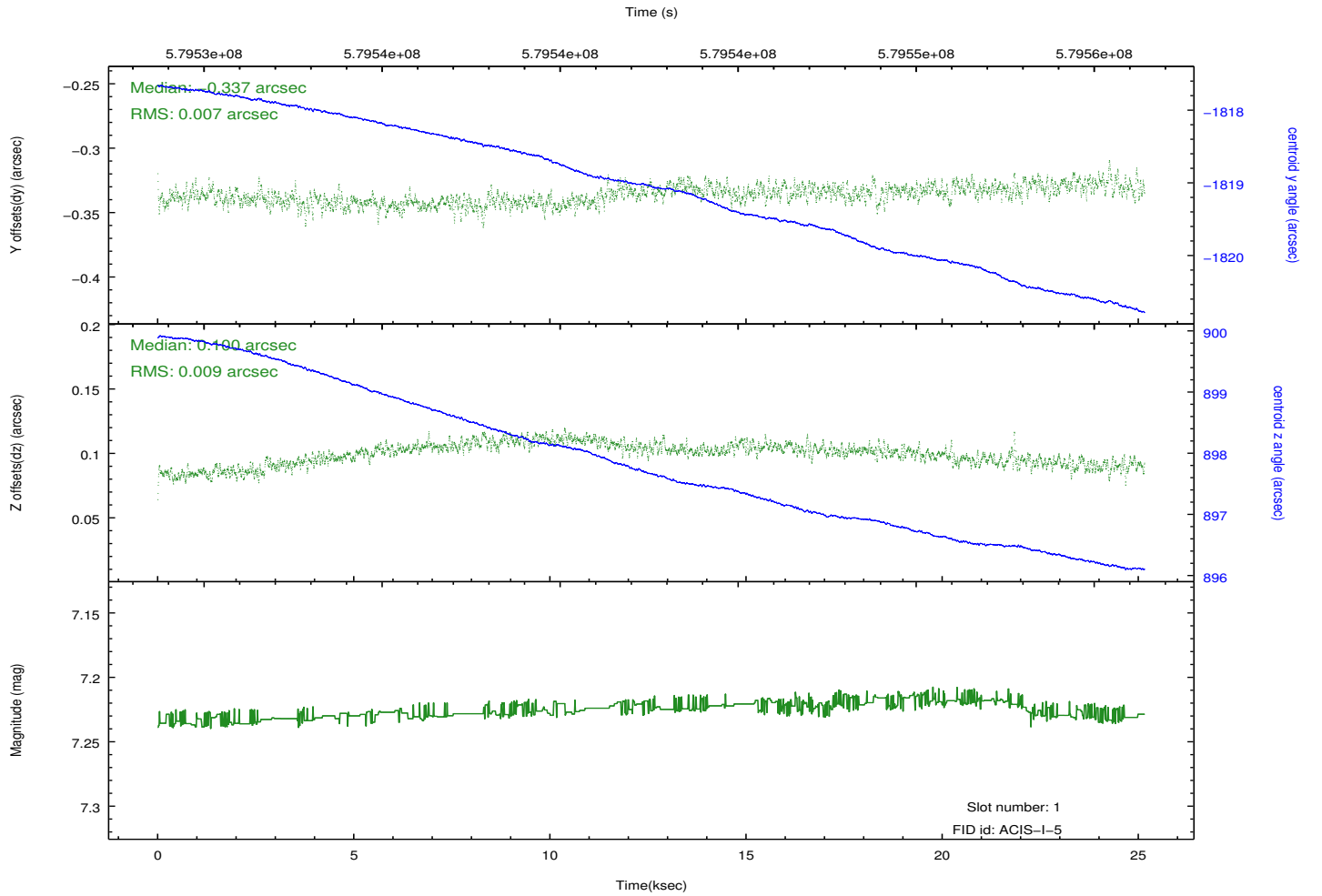
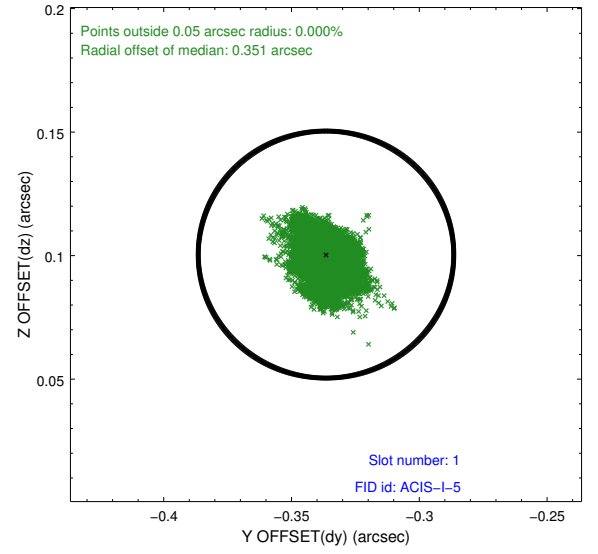
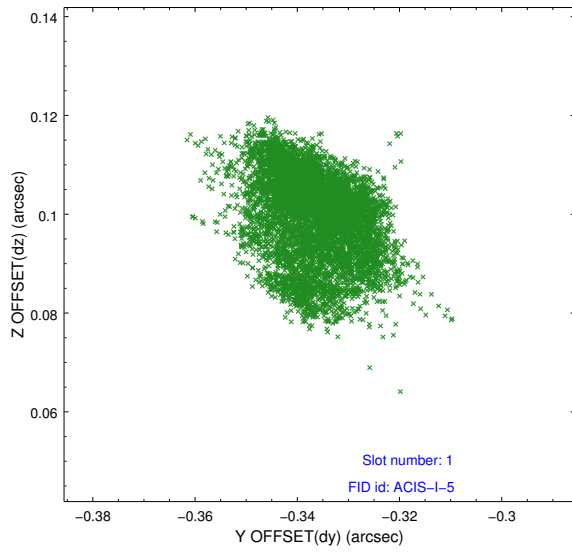


2.5 FID Slots

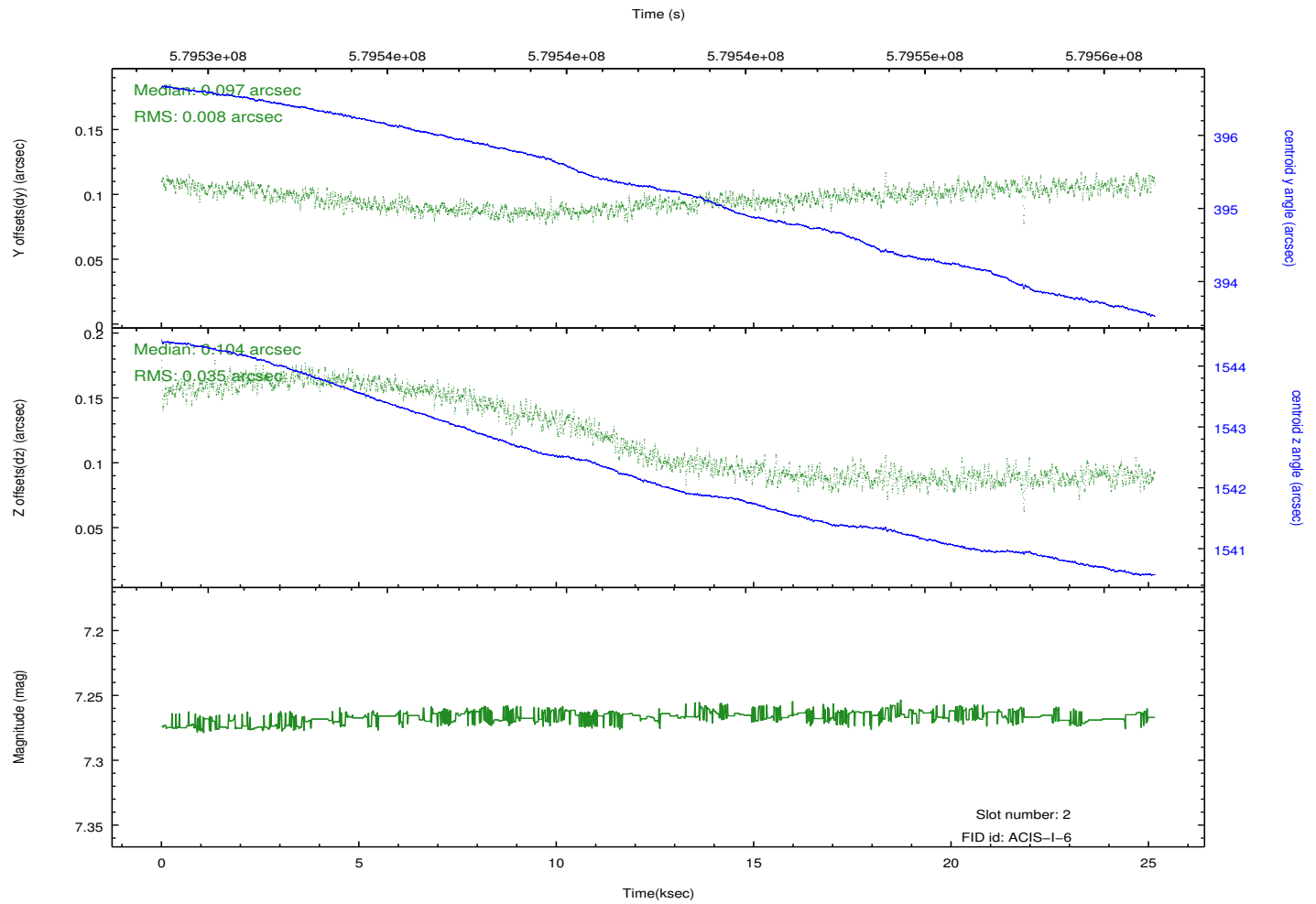
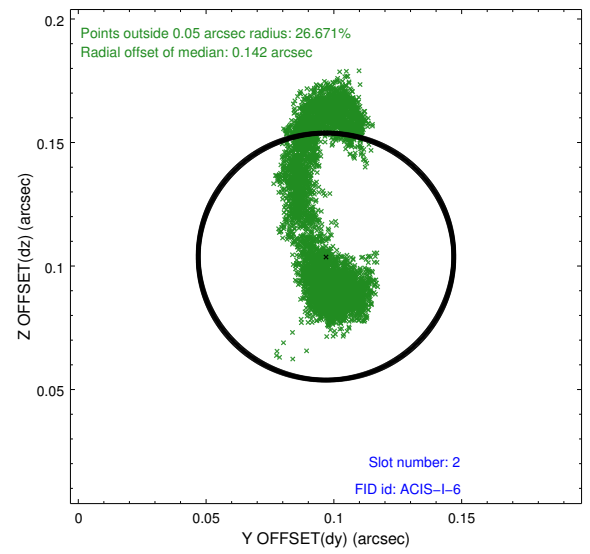
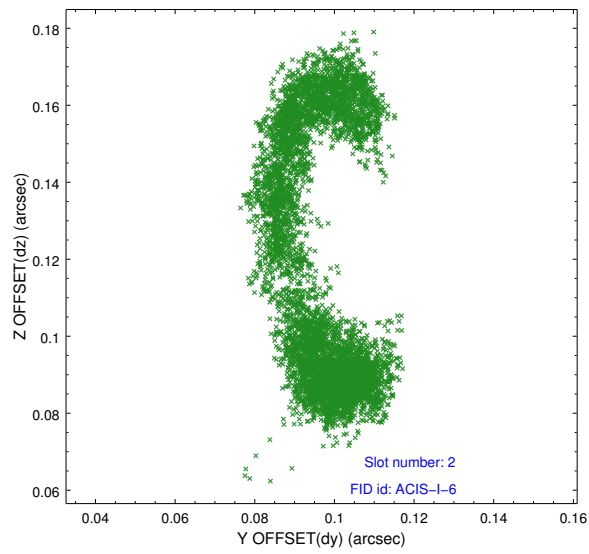
2.5.1 Slot 0



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)	2016.05.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.072800192952

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.