

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17037 - L2 Version 1
Chandra X-Ray Center

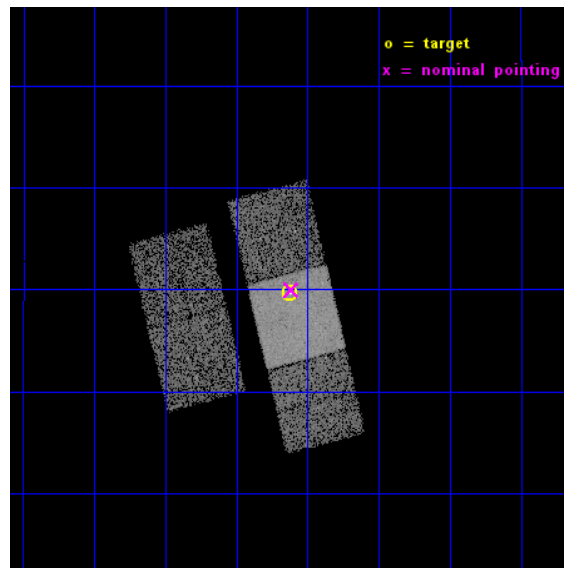
L2 Processing Date : Feb 10 2015

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

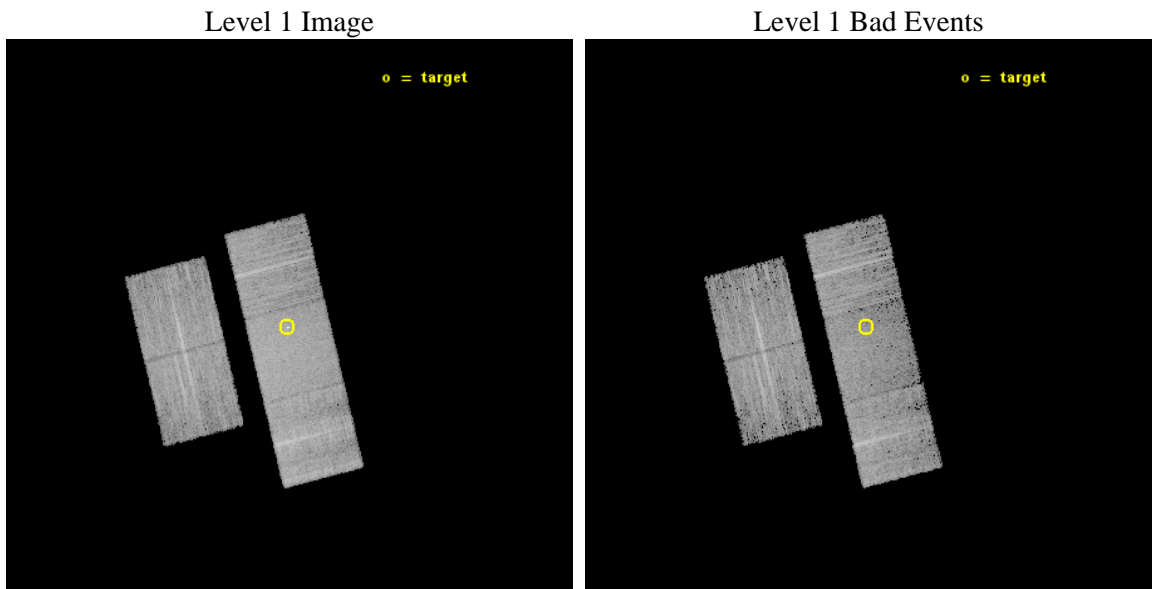
seq_num	703041	Sequence number
obs_id	17037	Observation id
title	Probing the Growth of Massive Black Holes in Dwarf Galaxies with Chandra and HST	Proposal title
observer	Dr. Amy Reines	Principal investigator
object	J152637.36+065941.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	231.655833	Observer's specified target RA [deg]
dec_targ	6.994917	Observer's specified target Dec [deg]
ra_nom	231.6535152787	Nominal RA [deg]
dec_nom	6.9998679233089	Nominal Dec [deg]
roll_nom	76.044726709329	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11048.369864464	Sum of GTIs [s]
livetime	10904.014778493	Livetime [s]
ontime2	11048.205704451	Sum of GTIs [s]
ontime3	11048.287784457	Sum of GTIs [s]
ontime6	11048.32882452	Sum of GTIs [s]
ontime7	11048.369864464	Sum of GTIs [s]
ontime8	11048.246744514	Sum of GTIs [s]
l2events	57766	Number of level 2 events



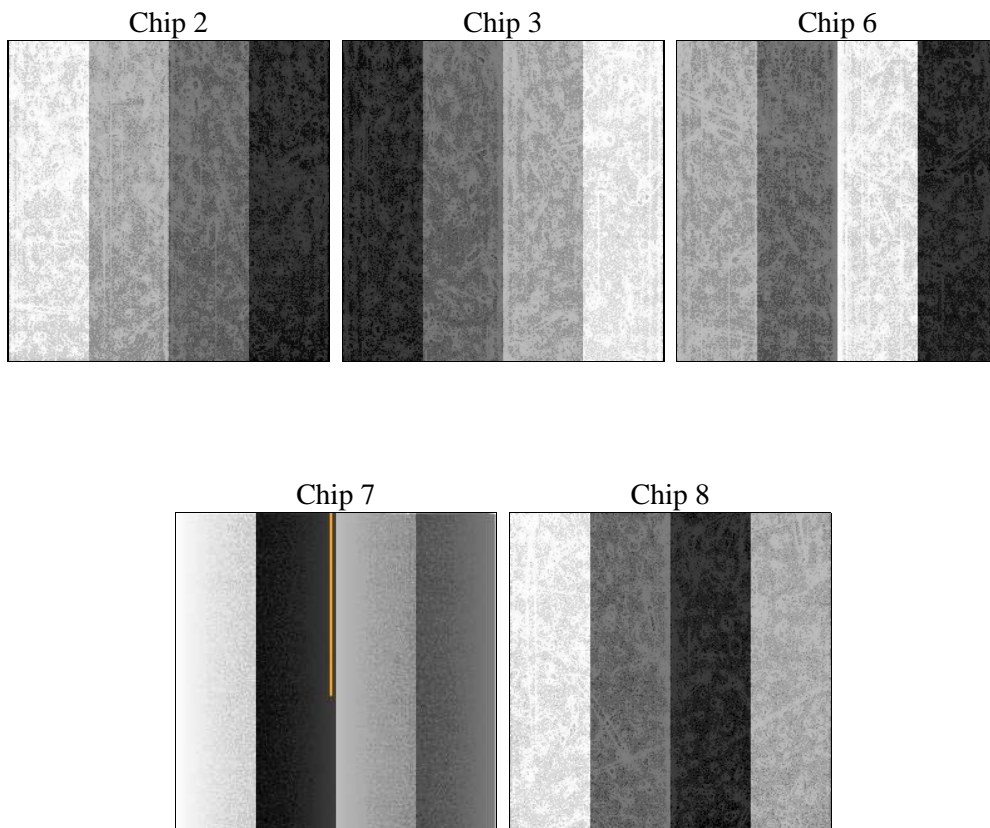
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	11048.369864464	Sum of GTIs [s]
caldbver	4.6.6	 	ontime2	11048.205704451	Sum of GTIs [s]
date	2015-02-11T03:59:57	Date and time of file creation	ontime3	11048.287784457	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11048.32882452	Sum of GTIs [s]
			ontime7	11048.369864464	Sum of GTIs [s]
			ontime8	11048.246744514	Sum of GTIs [s]
			l1events	324944	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	56708	56750	58451	76904	76131
rejected events	50367	50297	51331	42967	55360
rejected %	88%	88%	87%	55%	72%

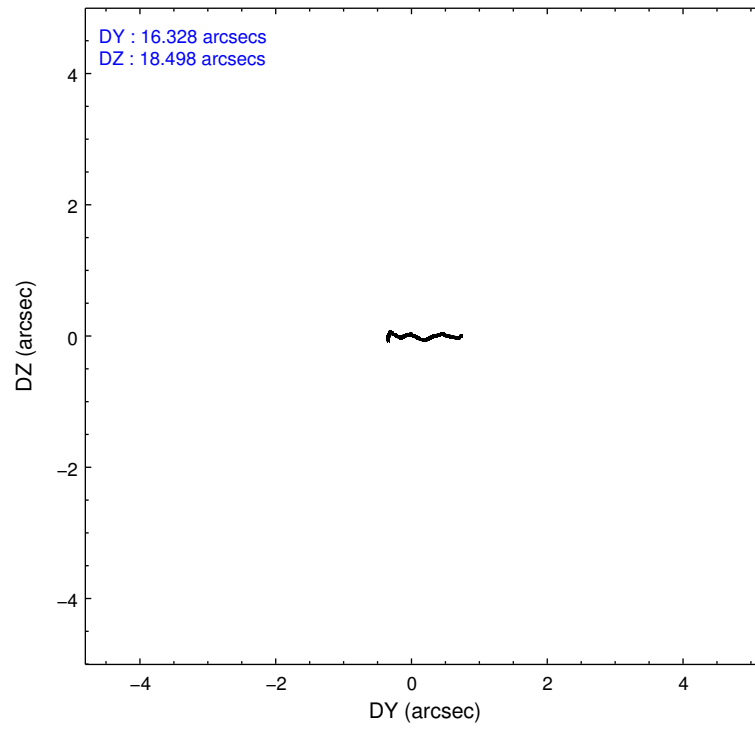
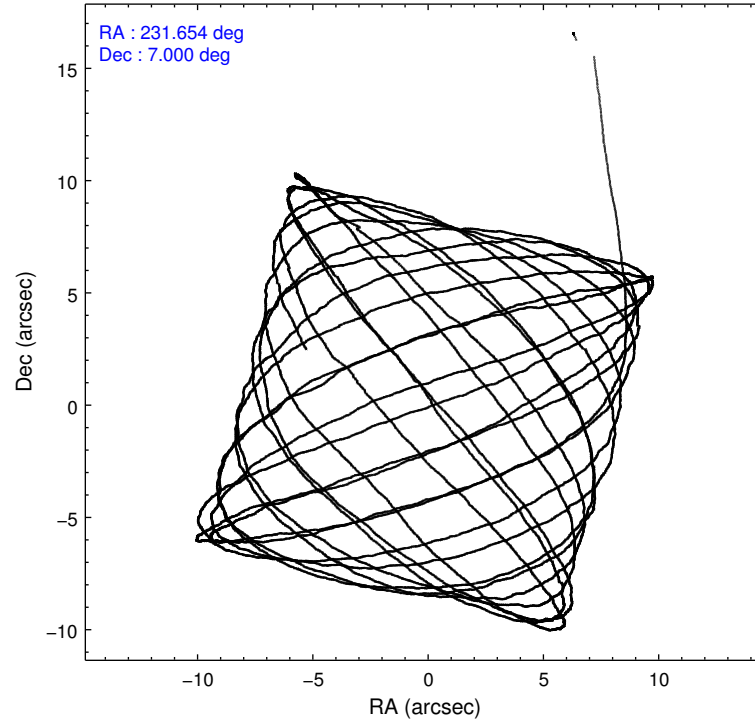
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2196	2301	2530	3204	6163
	3%	4%	4%	4%	8%
grade 1 events	24	39	30	102	59
	0%	0%	0%	0%	0%
grade 2 events	1544	1483	1638	7065	4859
	2%	2%	2%	9%	6%
grade 3 events	680	694	724	2869	2191
	1%	1%	1%	3%	2%
grade 4 events	658	675	683	2837	2062
	1%	1%	1%	3%	2%
grade 5 events	2426	2946	2964	7899	4332
	4%	5%	5%	10%	5%
grade 6 events	1269	1303	1552	17985	5500
	2%	2%	2%	23%	7%
grade 7 events	47911	47309	48330	34943	50965
	84%	83%	82%	45%	66%

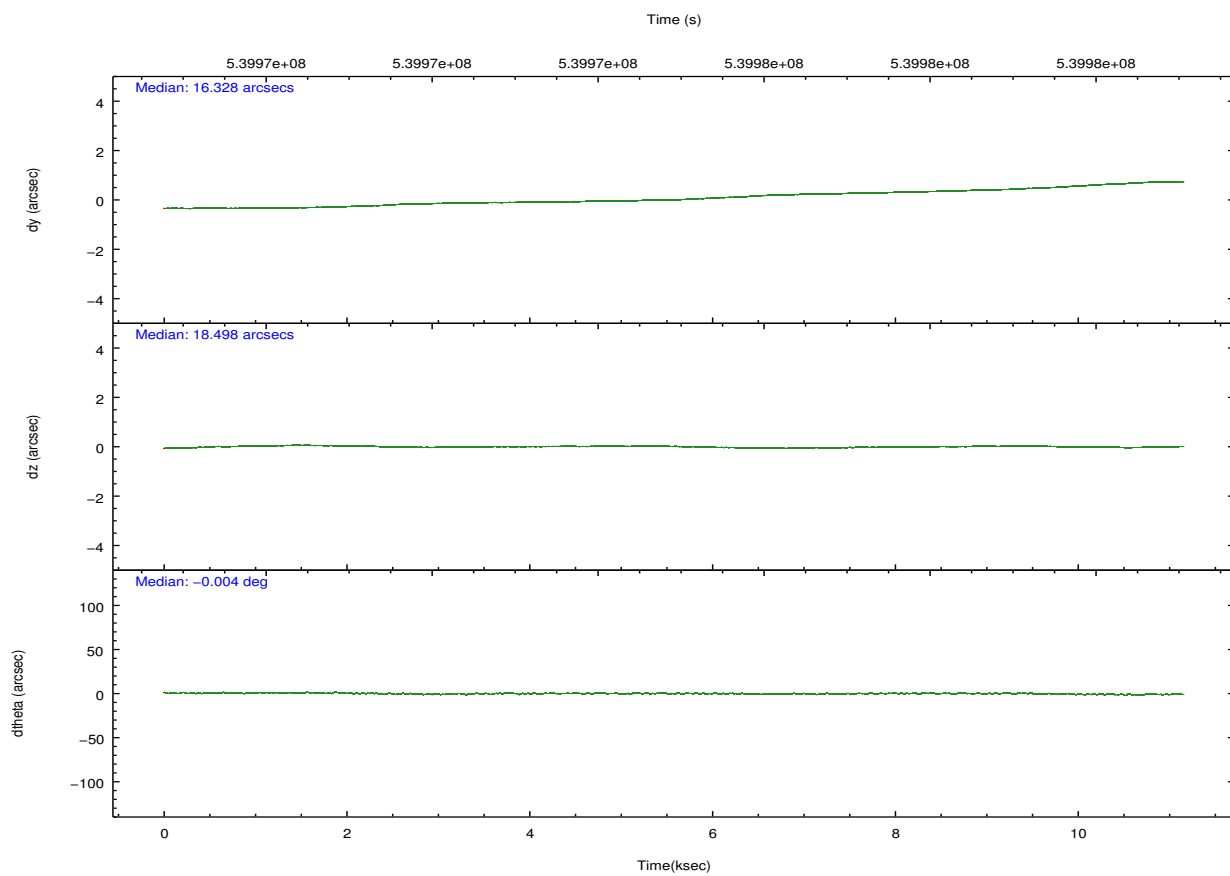
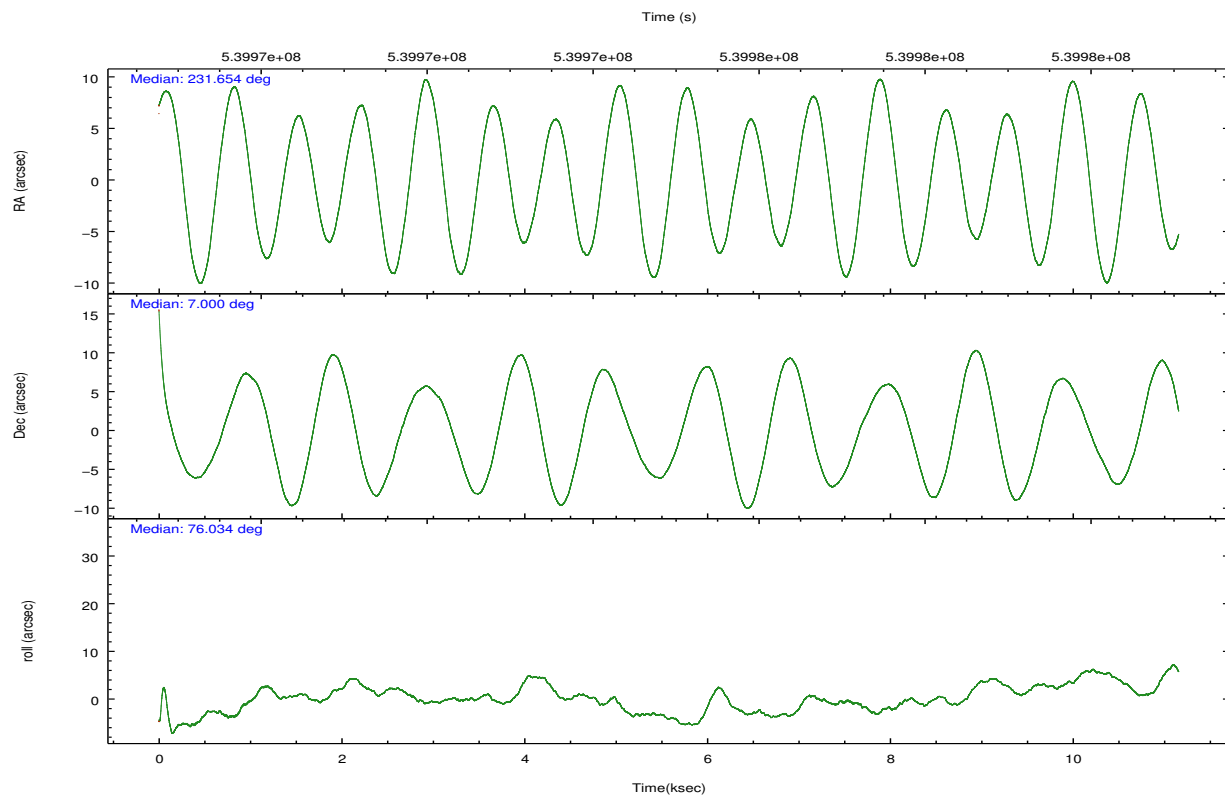
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	231.661505	231.6535152786983
[deg] Pointing Dec	6.973563	6.999867923308943
[deg] Pointing Roll	75.887137	76.04472670932878
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	539969497.184000	539967869.3354599
Observation start date	2015-02-10T15:30:30	2015-02-10T15:04:29
[s] Observation end time (MET)	539980497.184000	539981213.81121
Observation end date	2015-02-10T18:33:50	2015-02-10T18:46:53
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



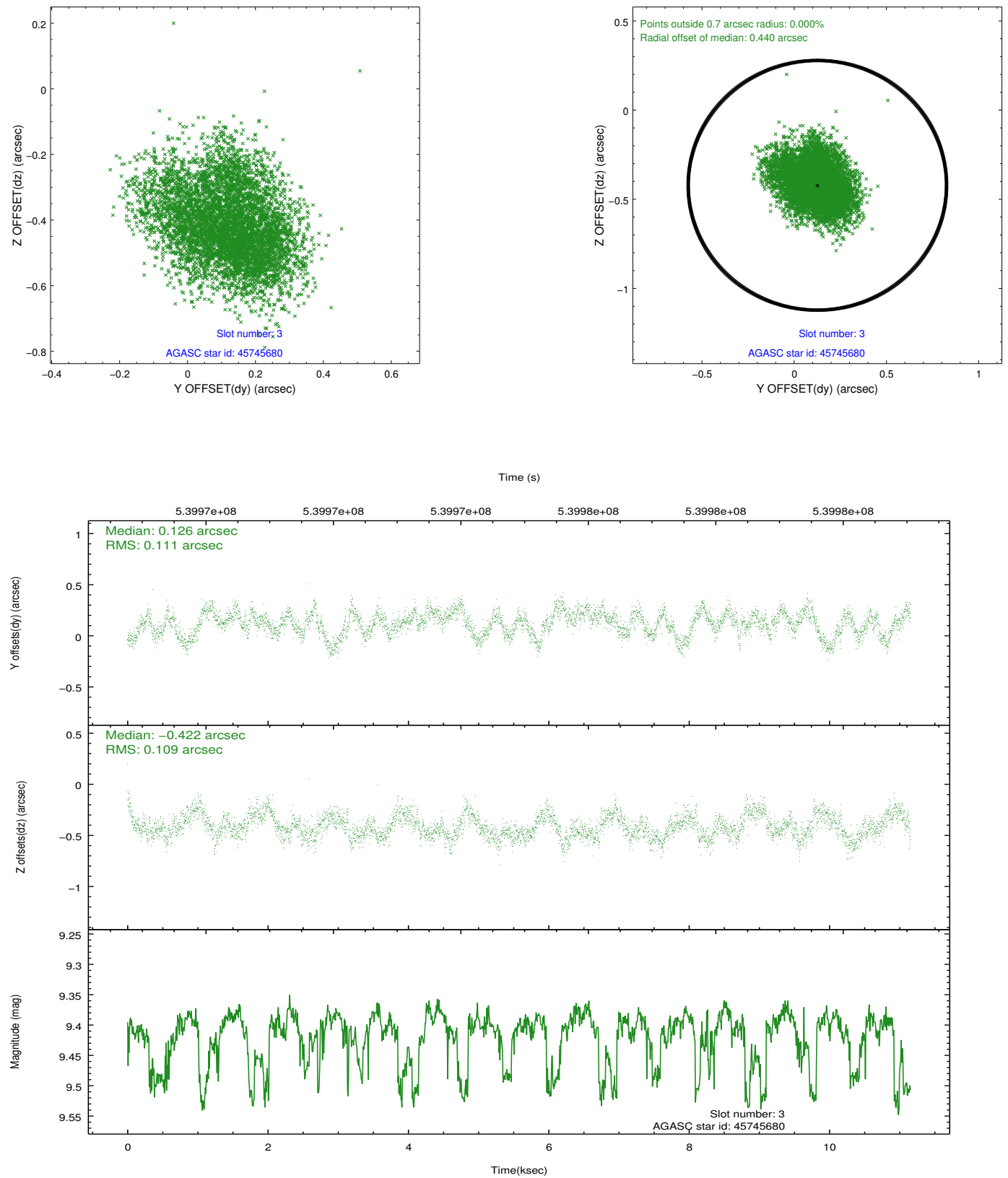


Slot Statistics

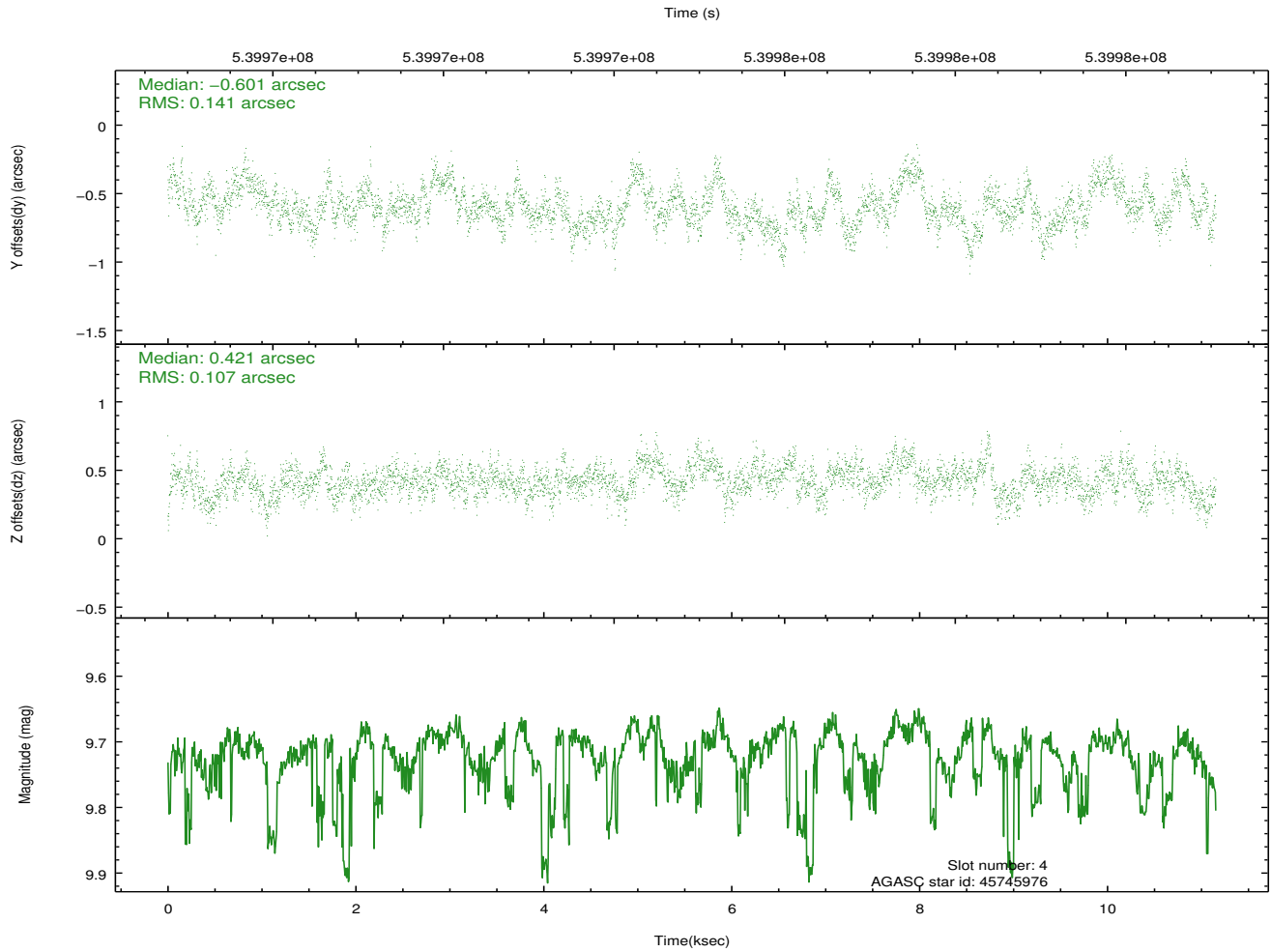
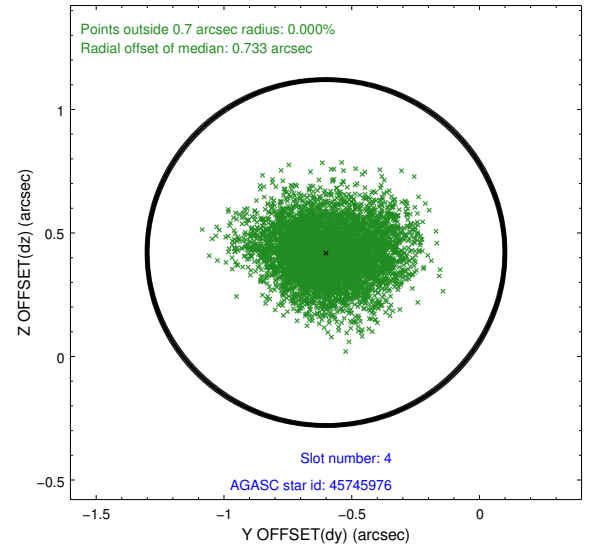
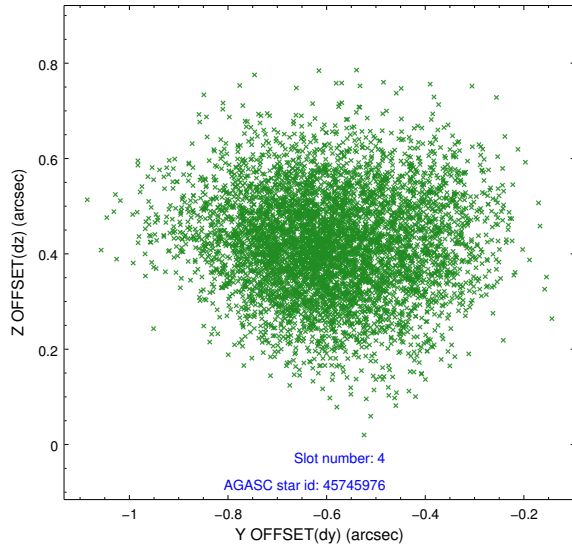
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	2722	-0.090	-0.065	0.009	0.013	0.000000	0.000000	-769.53	-1740.03
1	FID		ACIS-S-4	7.10	2722	0.280	0.061	0.007	0.014	0.000000	0.000000	2143.92	168.08
2	FID		ACIS-S-5	7.11	2722	-0.222	0.013	0.009	0.015	0.000000	0.000000	-1821.90	162.25
3	GUIDE	used	45745680	9.41	5437	0.126	-0.422	0.166	0.265	231.044529	6.887340	-837.45	2063.03
4	GUIDE	used	45745976	9.72	5435	-0.601	0.421	0.188	0.307	232.188075	7.321736	1674.40	-1516.43
5	GUIDE	used	45747784	8.94	5438	-0.216	0.293	0.111	0.172	232.154136	6.922082	250.98	-1751.92
6	GUIDE	used	45748696	9.73	5429	0.381	0.353	0.153	0.242	231.731564	6.449794	-1766.84	-702.72
7	GUIDE	used	45752232	9.09	5440	0.306	-0.661	0.160	0.251	230.954015	6.543493	-2117.03	2076.27

2.4 Star Slots

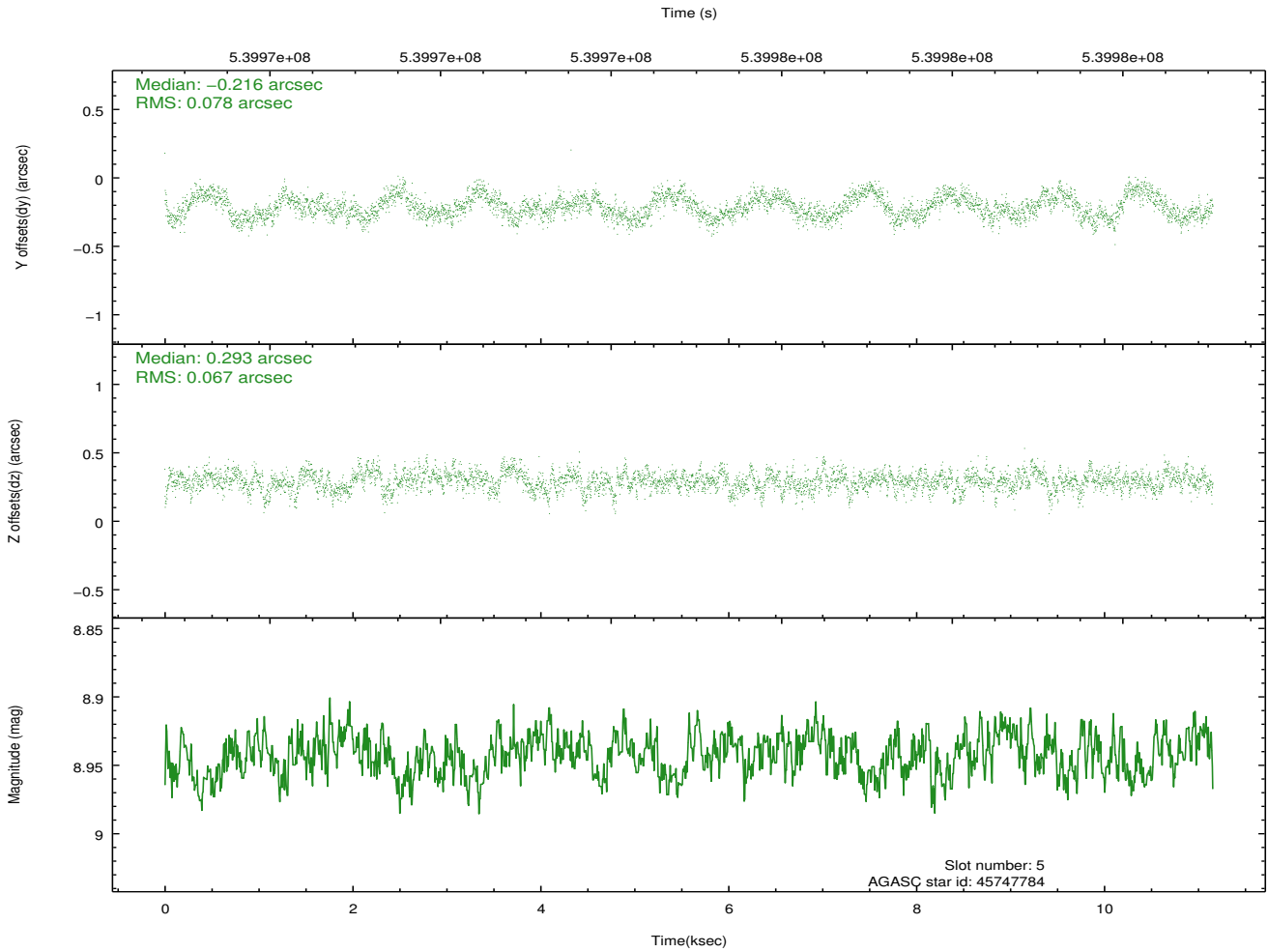
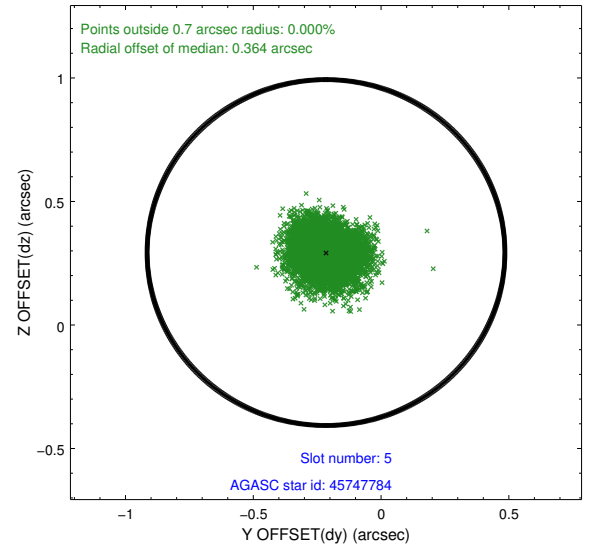
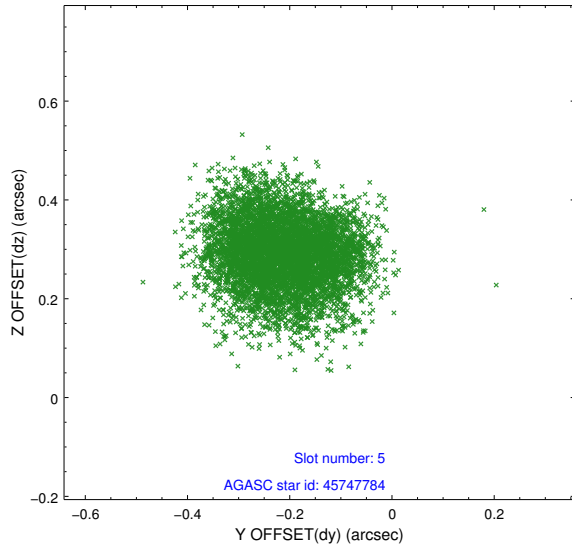
2.4.1 Slot 3



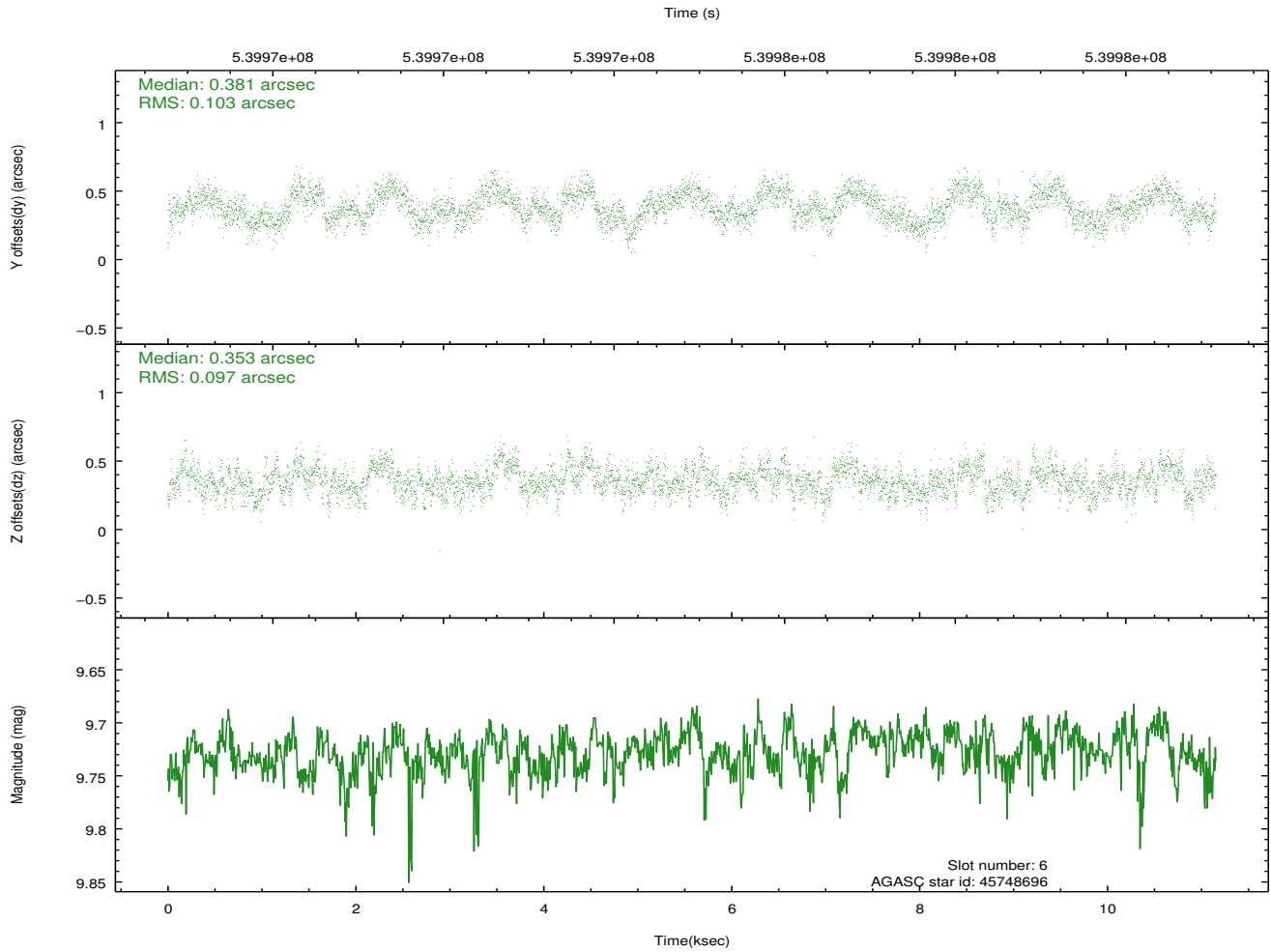
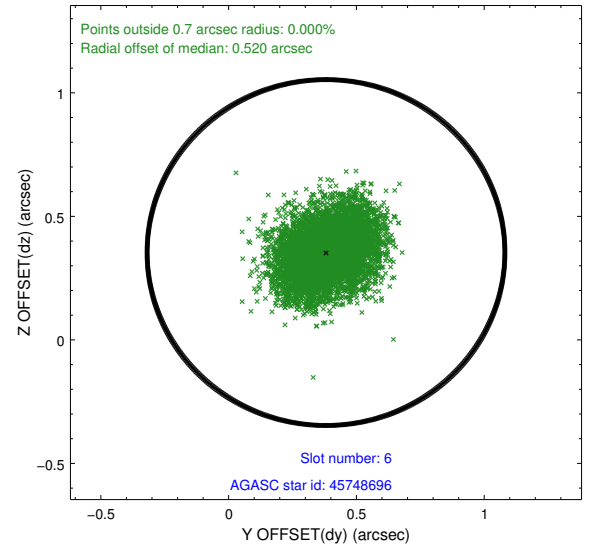
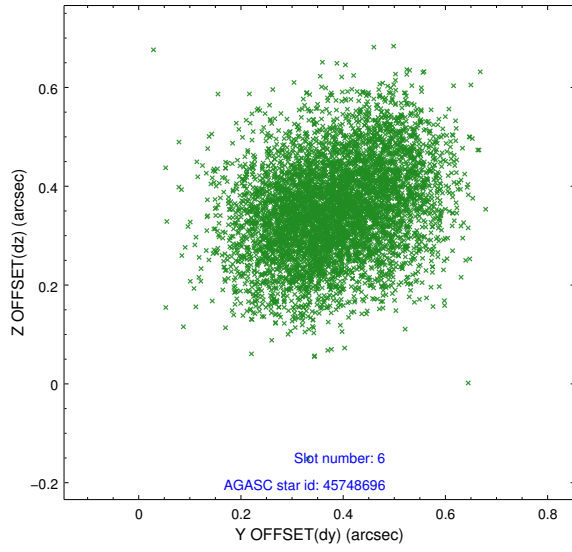
2.4.2 Slot 4



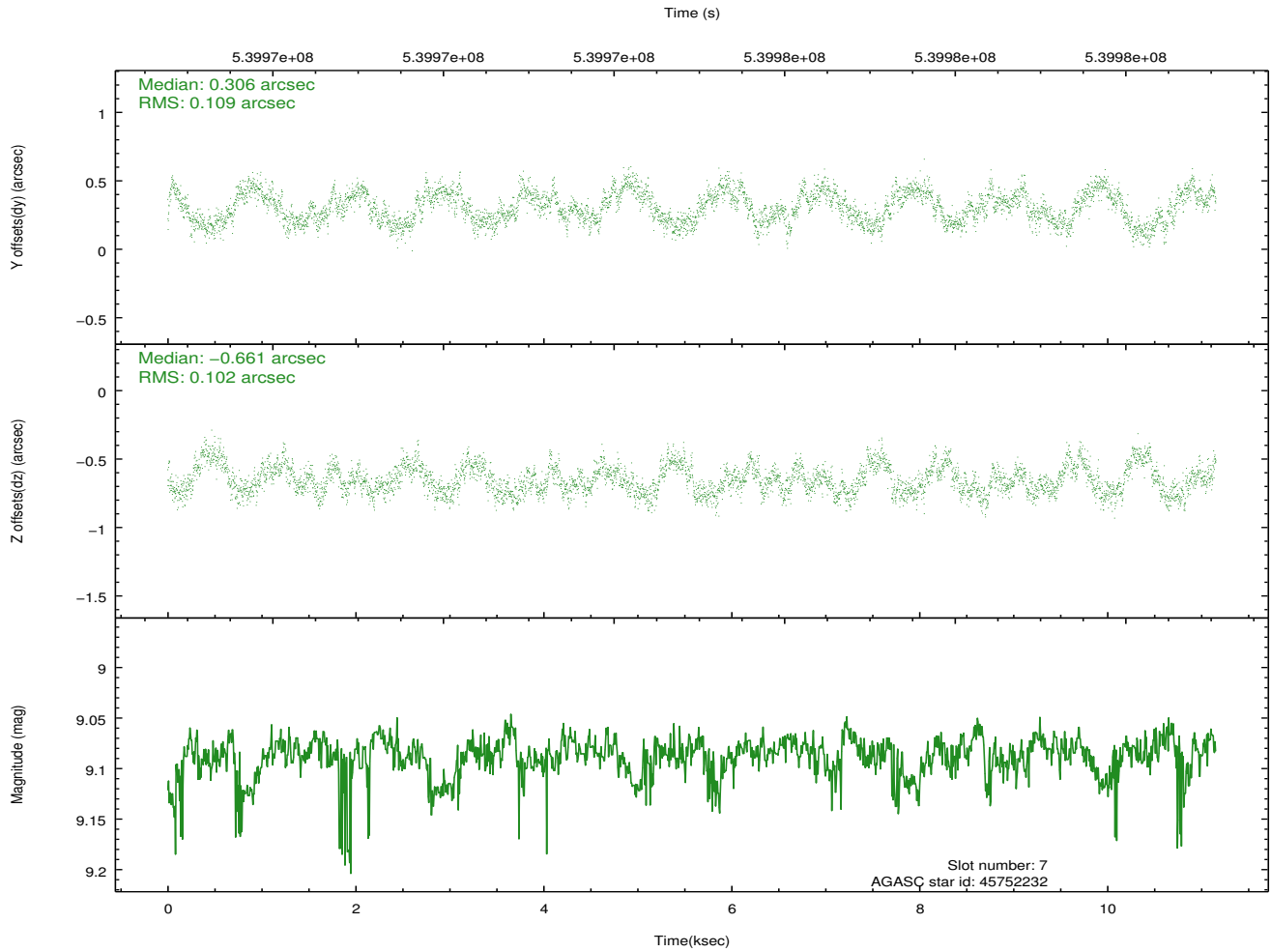
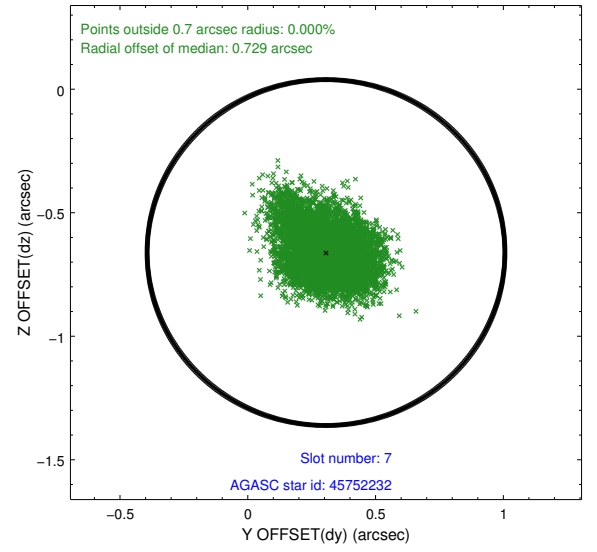
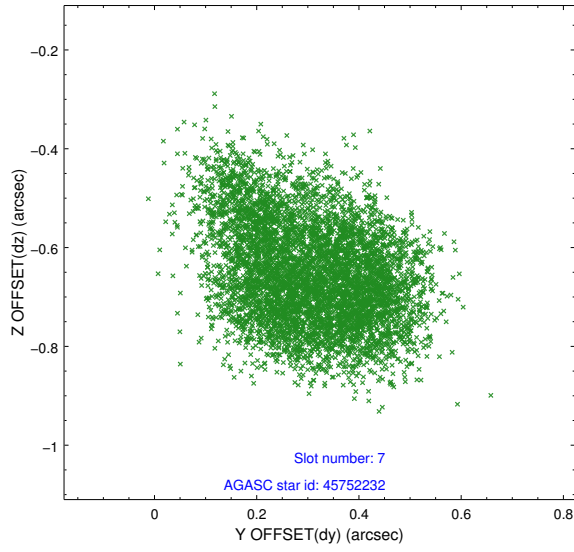
2.4.3 Slot 5



2.4.4 Slot 6

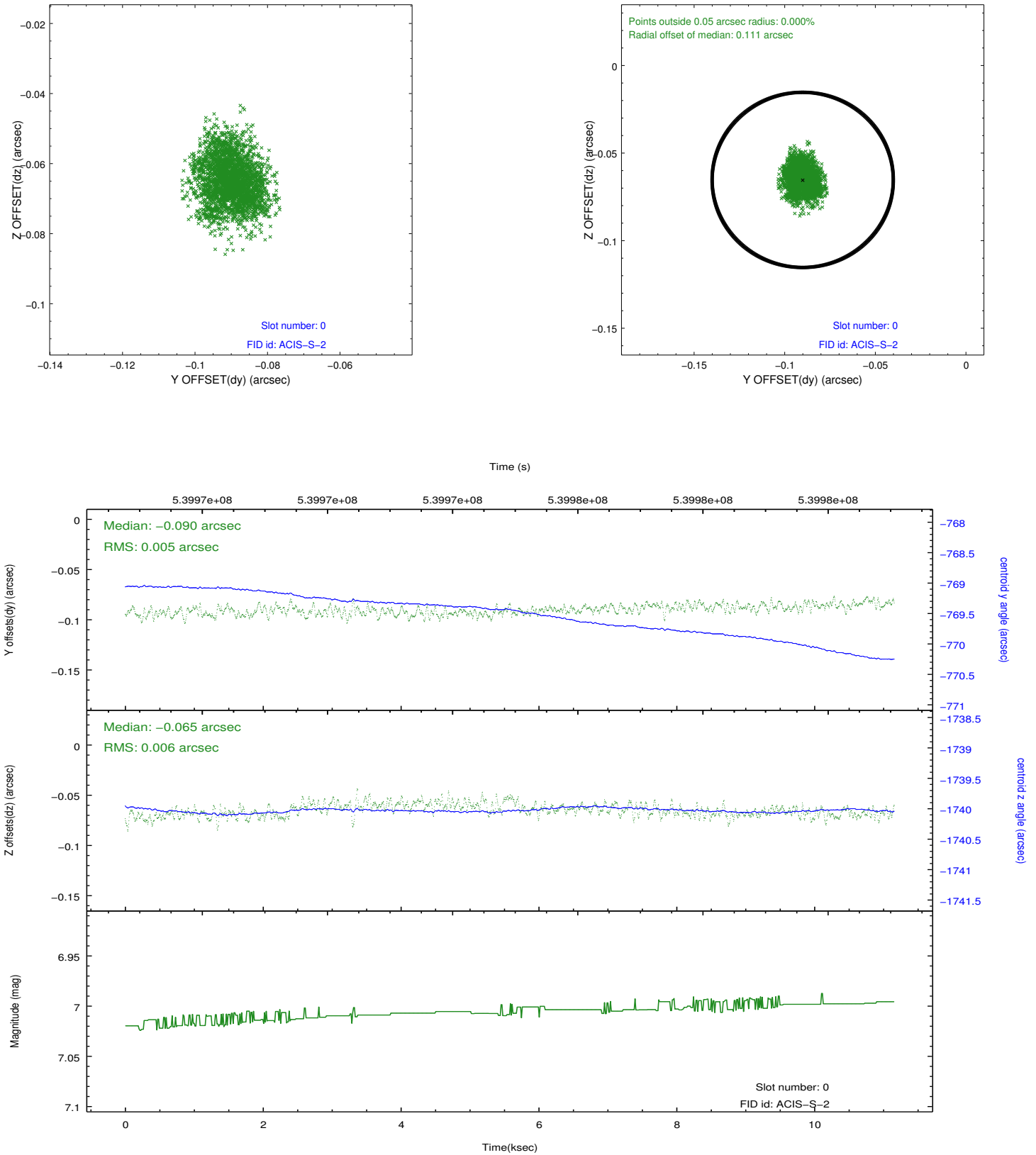


2.4.5 Slot 7

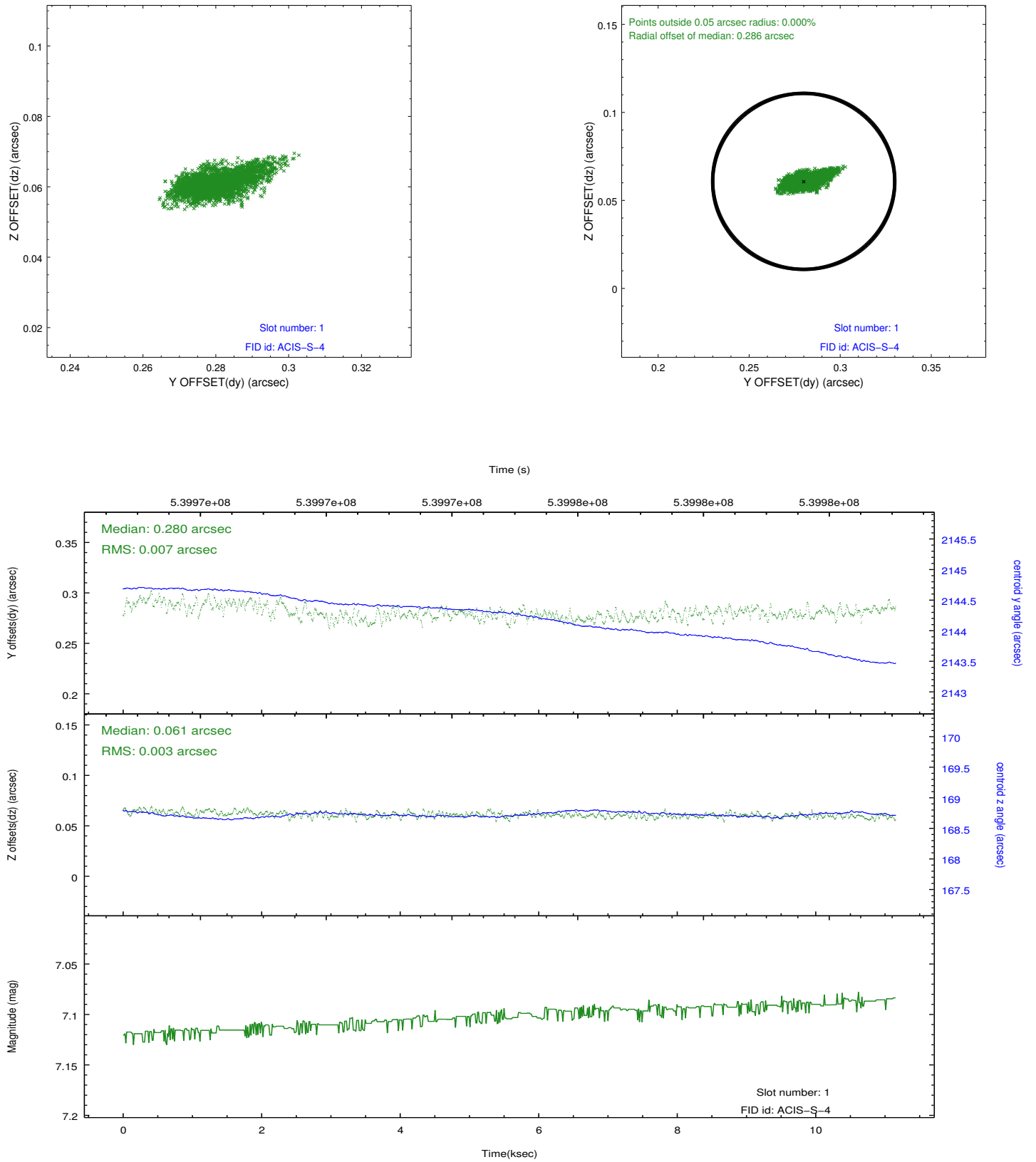


2.5 FID Slots

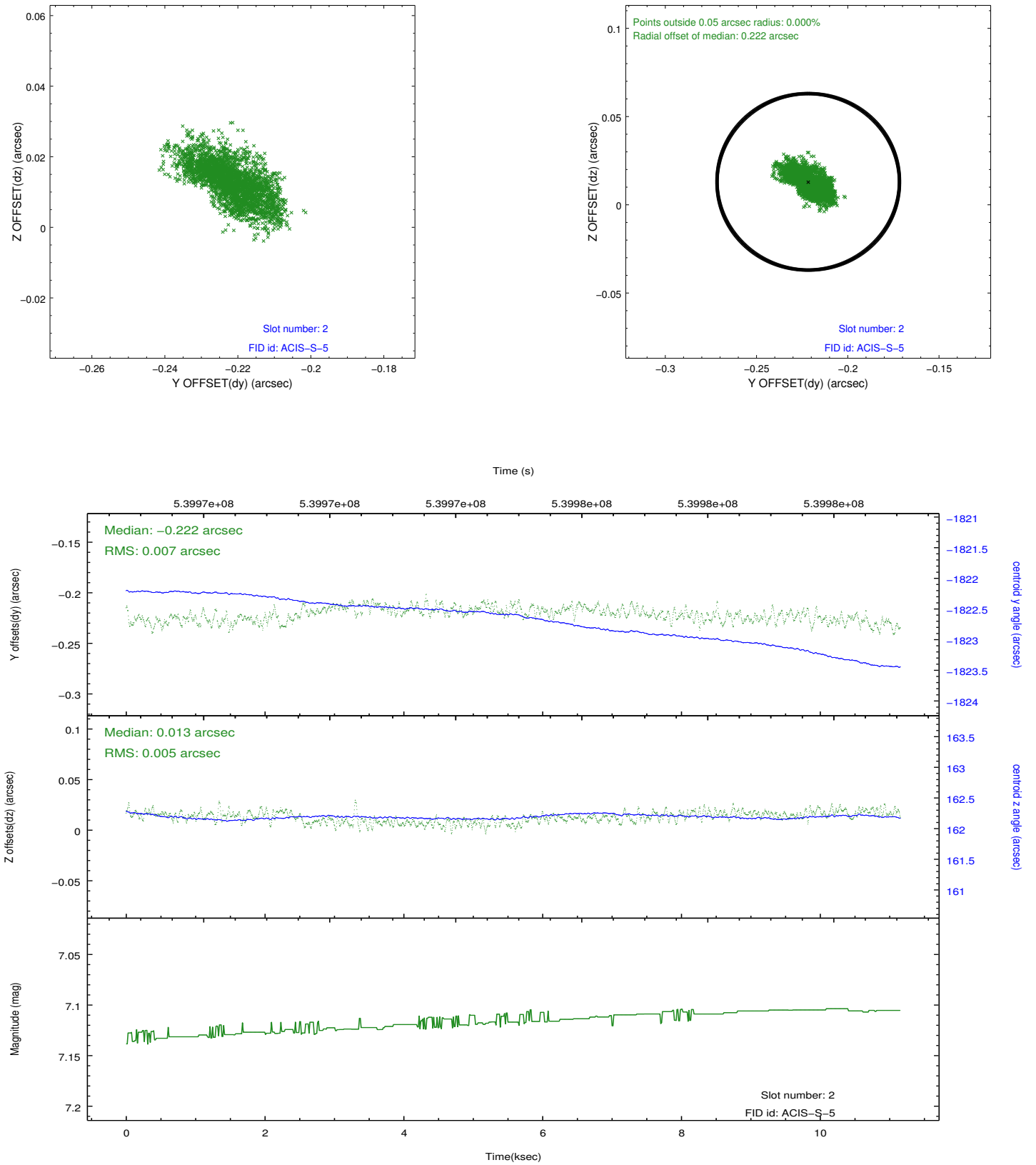
2.5.1 Slot 0



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)	2015.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.048369864464

A.2 Comments