

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15976 - L2 Version 2
Chandra X-Ray Center

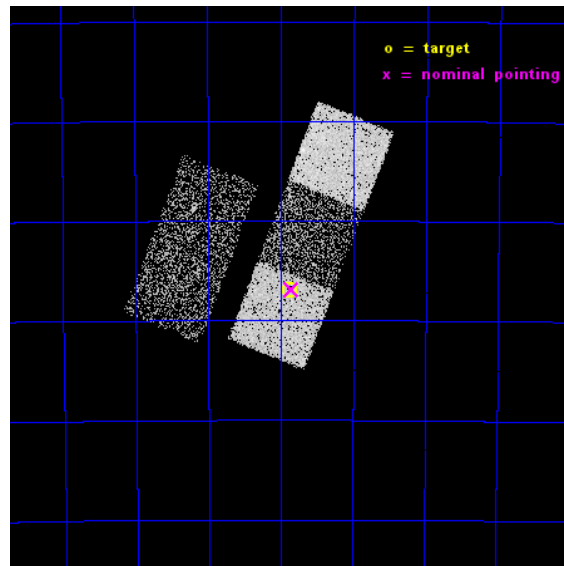
L2 Processing Date : Dec 9 2014

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1 Front

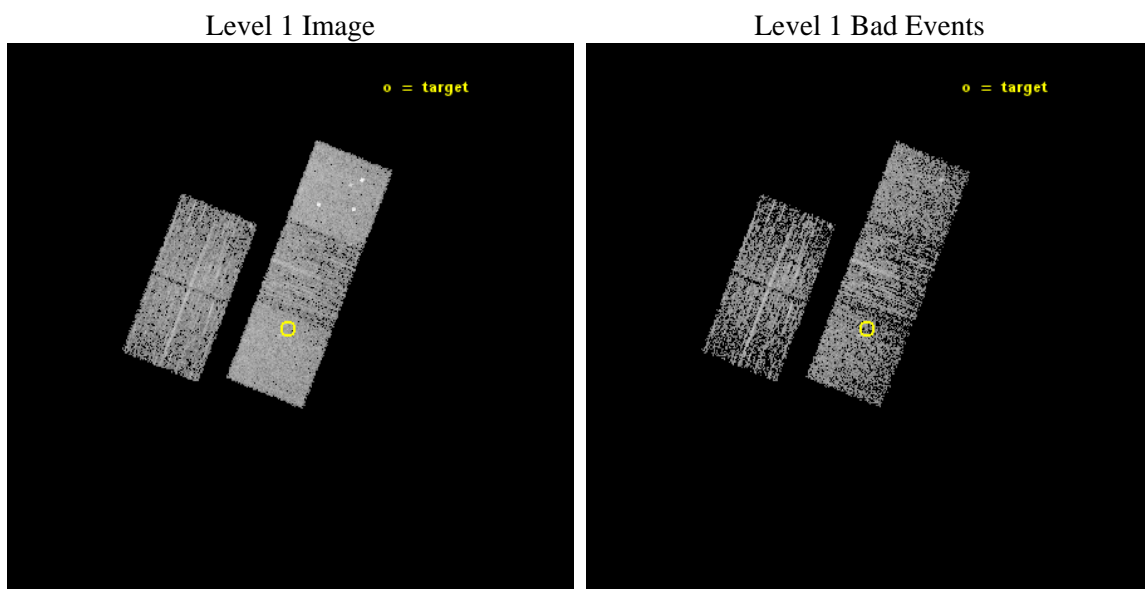
seq_num	502209	Sequence number
obs_id	15976	Observation id
title	Where Have All The Central Compact Objects Gone?	Proposal title
observer	Dr. Eric Gotthelf	Principal investigator
object	PSR J1627-5936	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	246.96875	Observer's specified target RA [deg]
dec_targ	-59.615361	Observer's specified target Dec [deg]
ra_nom	246.9629333159	Nominal RA [deg]
dec_nom	-59.614759762855	Nominal Dec [deg]
roll_nom	111.49046319318	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3567.0143470764	Sum of GTIs [s]
livetime	3520.4086786341	Livetime [s]
ontime2	3566.8501870632	Sum of GTIs [s]
ontime3	3566.8912270665	Sum of GTIs [s]
ontime5	3566.9733070731	Sum of GTIs [s]
ontime6	3566.9322670698	Sum of GTIs [s]
ontime7	3567.0143470764	Sum of GTIs [s]
l2events	28205	Number of level 2 events



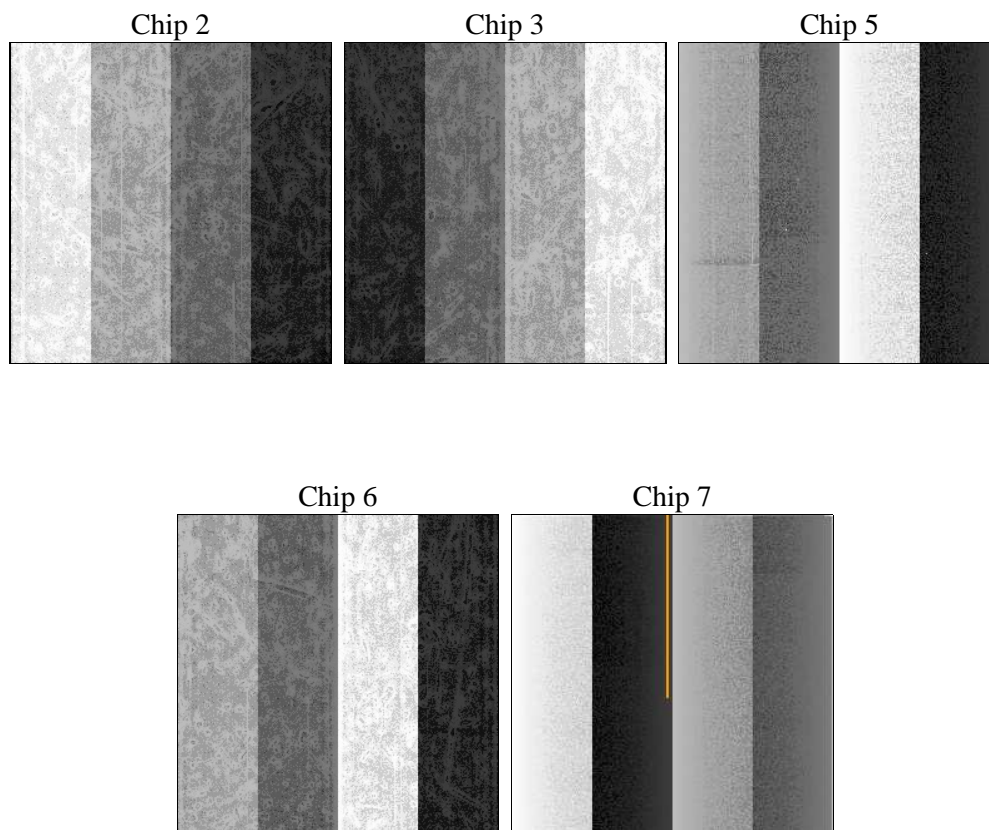
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3567.0143470764	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3566.8501870632	Sum of GTIs [s]
date	2014-12-10T00:42:38	Date and time of file creation	ontime3	3566.8912270665	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3566.9733070731	Sum of GTIs [s]
			ontime6	3566.9322670698	Sum of GTIs [s]
			ontime7	3567.0143470764	Sum of GTIs [s]
			l1events	104842	Number of level 1 events

2.1.4 Events

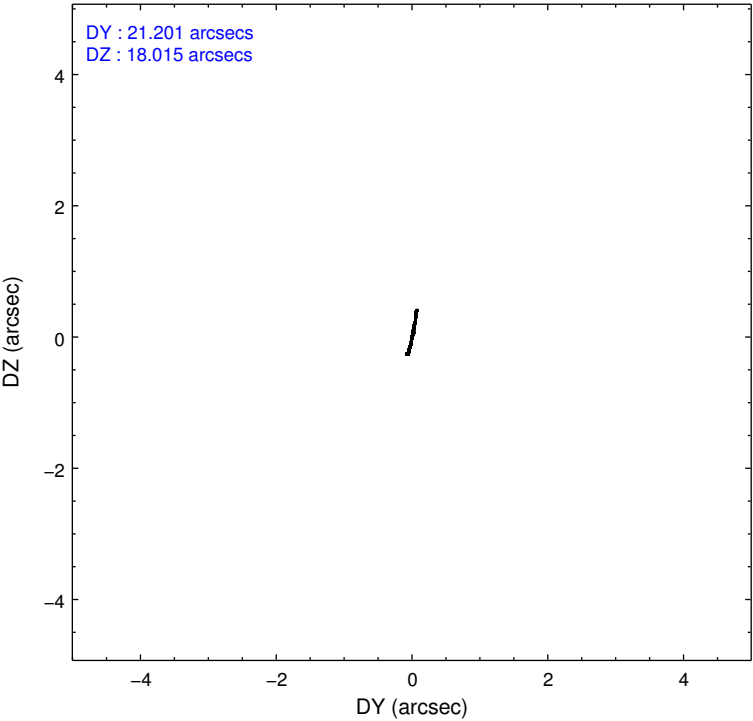
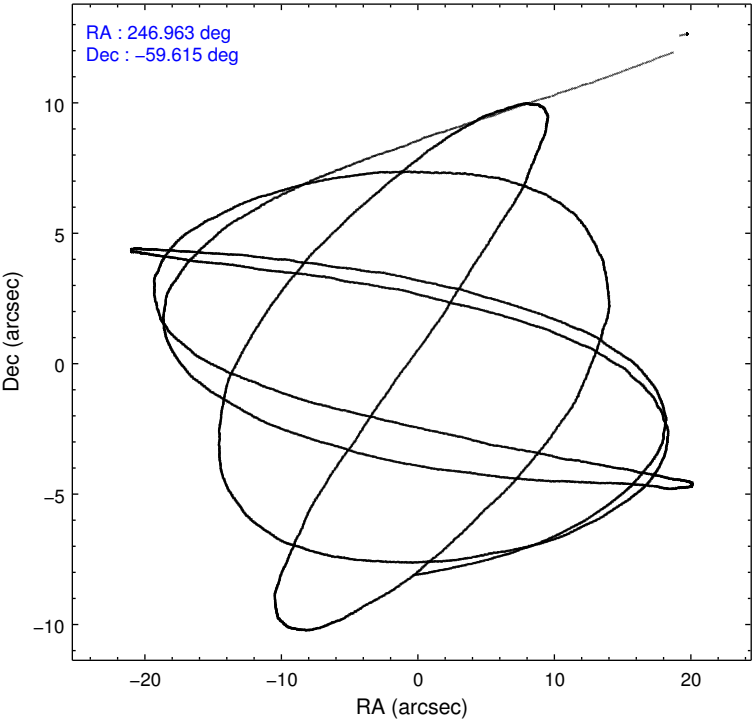
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	16602	15587	30771	17759	24123
rejected events	14642	13712	15269	15587	13831
rejected %	88%	87%	49%	87%	57%

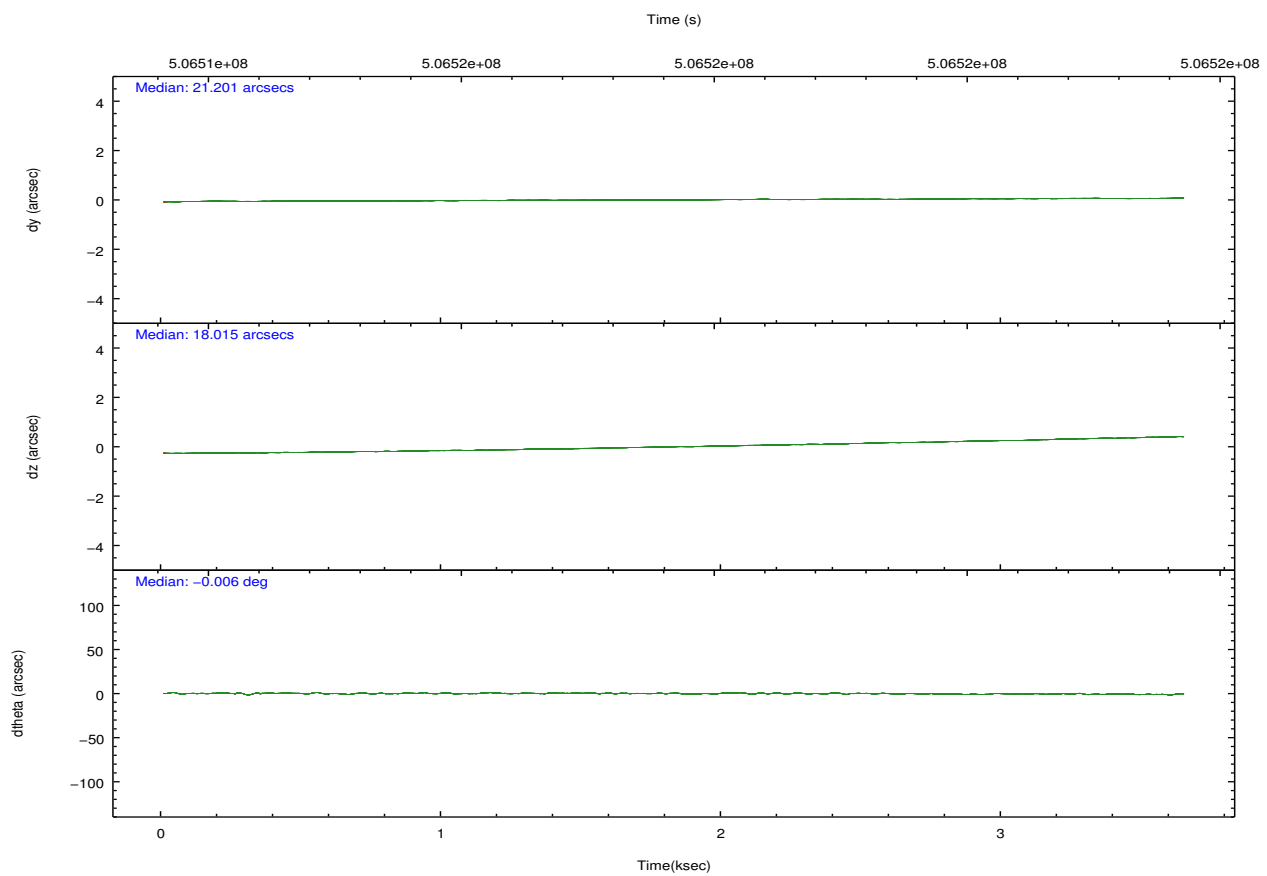
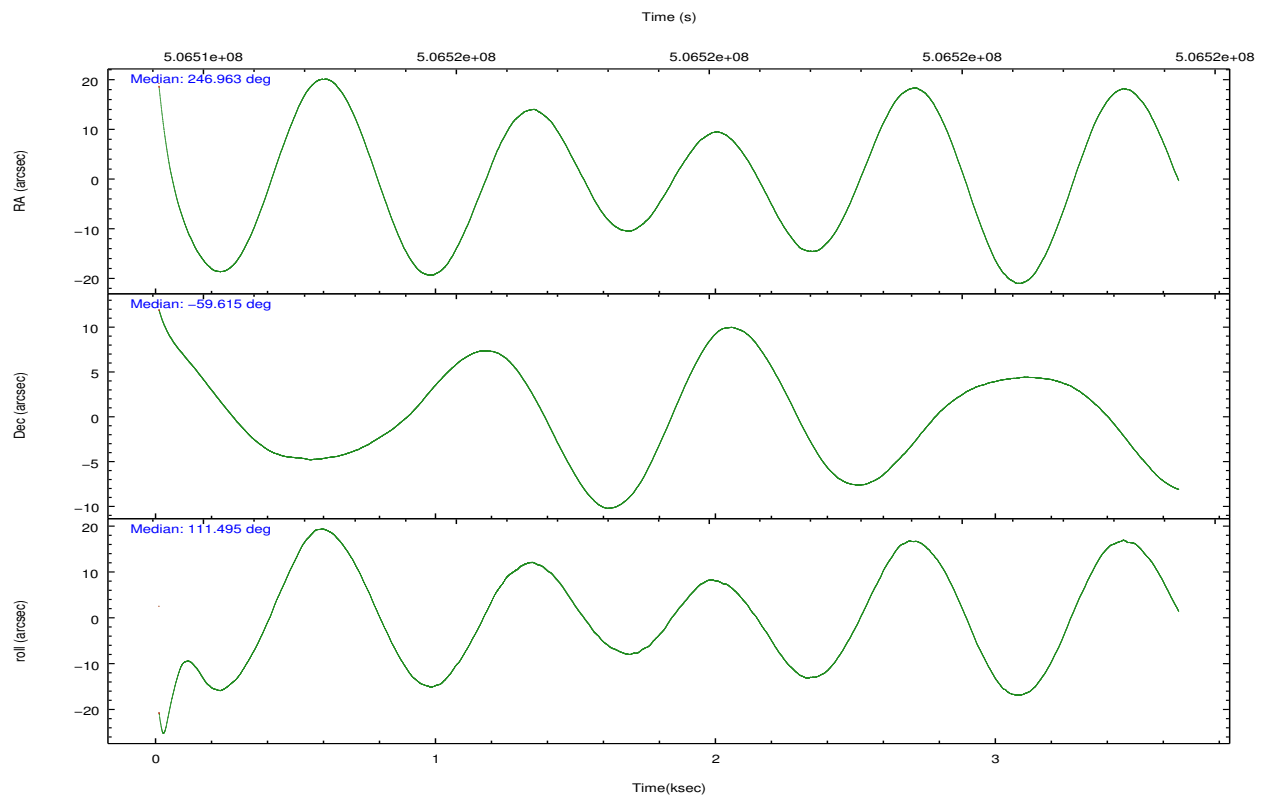
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	743	694	2858	788	867
	4%	4%	9%	4%	3%
grade 1 events	9	6	157	8	20
	0%	0%	0%	0%	0%
grade 2 events	445	396	4379	486	2088
	2%	2%	14%	2%	8%
grade 3 events	201	197	423	193	814
	1%	1%	1%	1%	3%
grade 4 events	202	199	416	193	826
	1%	1%	1%	1%	3%
grade 5 events	757	903	1964	900	2374
	4%	5%	6%	5%	9%
grade 6 events	371	391	7441	515	5703
	2%	2%	24%	2%	23%
grade 7 events	13874	12801	13133	14676	11431
	83%	82%	42%	82%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	247.005648	246.9629333158994	CCD I2 on	O2	Y
[deg] Pointing Dec	-59.631507	-59.61475976285532	CCD I3 on	O3	Y
[deg] Pointing Roll	111.370844	111.4904631931816	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	O4	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	N	N
[s] Observation start time (MET)	506514171.184000	506512949.36894	CCD S5 on	N	N
Observation start date	2014-01-19T10:21:44	2014-01-19T10:02:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	506517671.184000	506518349.06923	On-chip summing requested	N	N
Observation end date	2014-01-19T11:20:04	2014-01-19T11:32:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



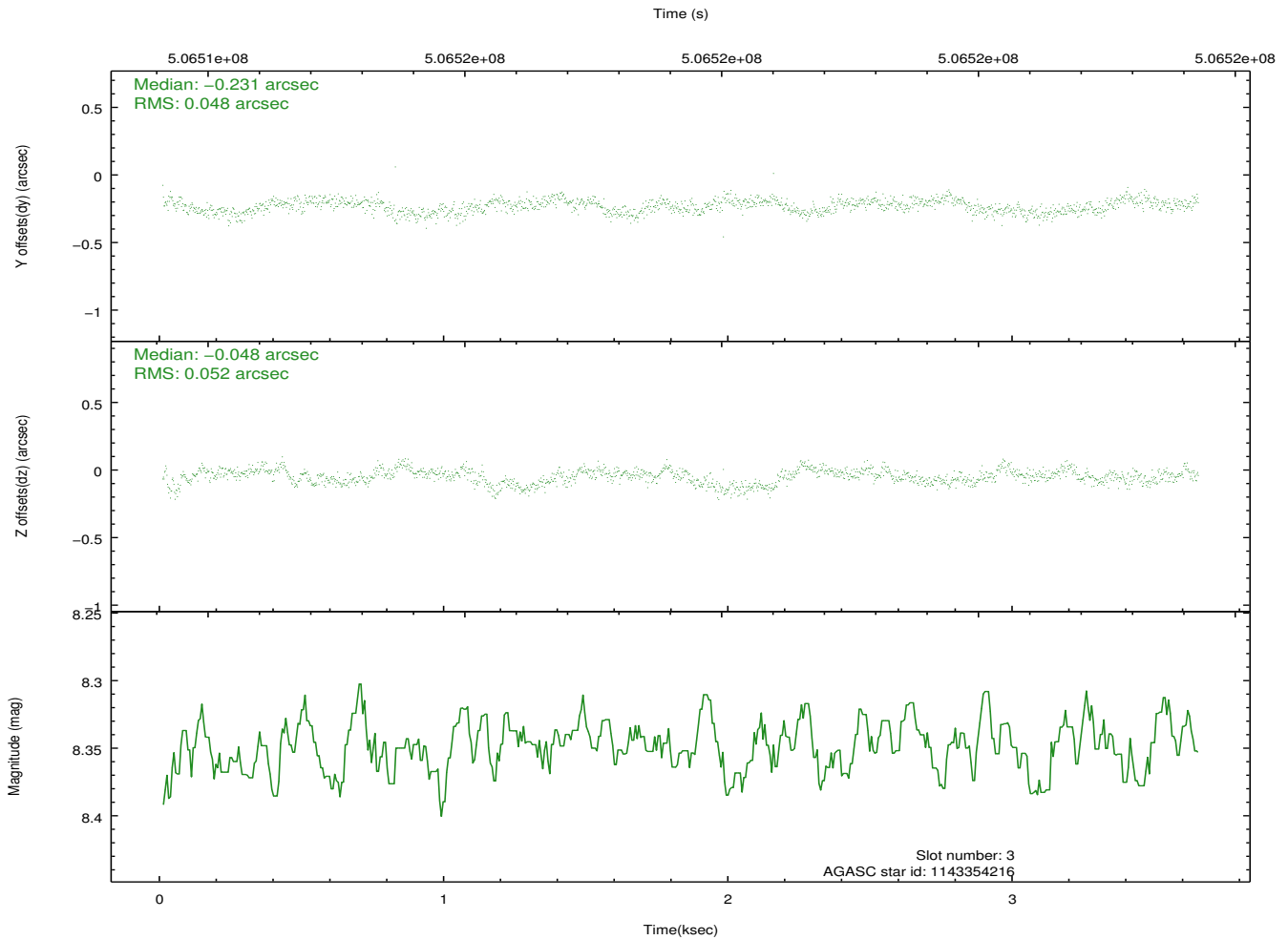
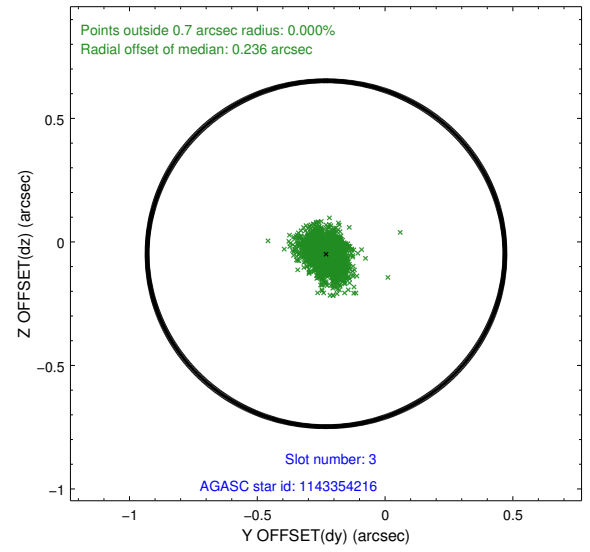
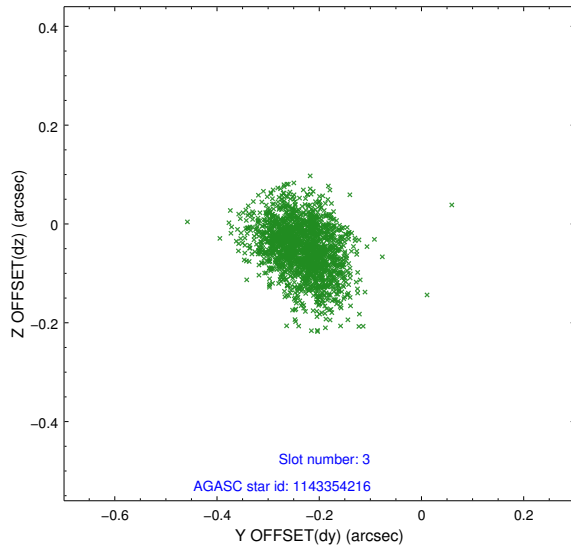


Slot Statistics

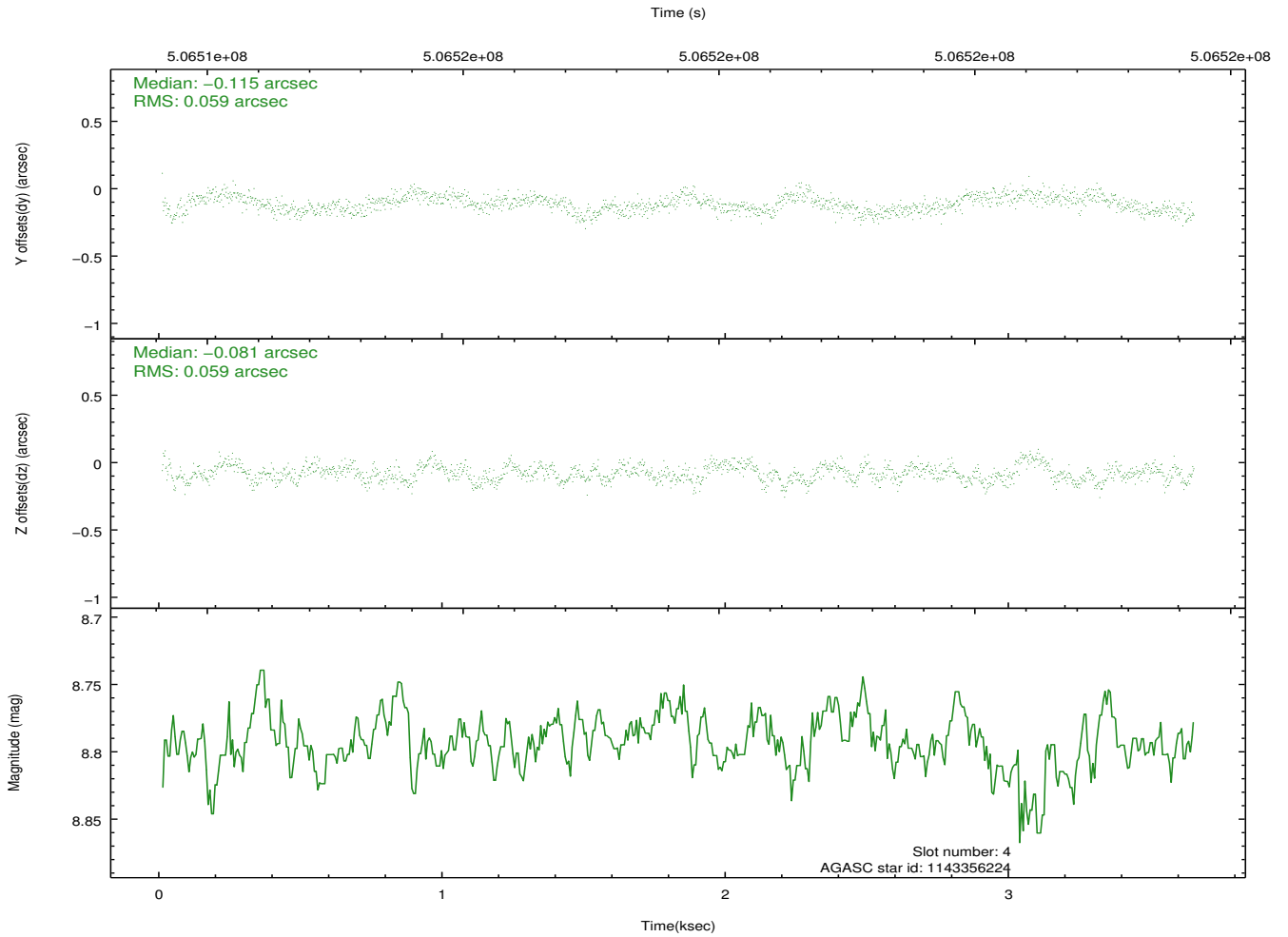
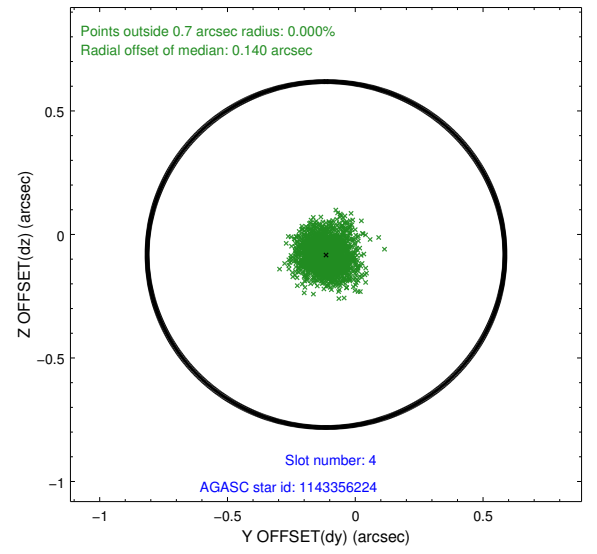
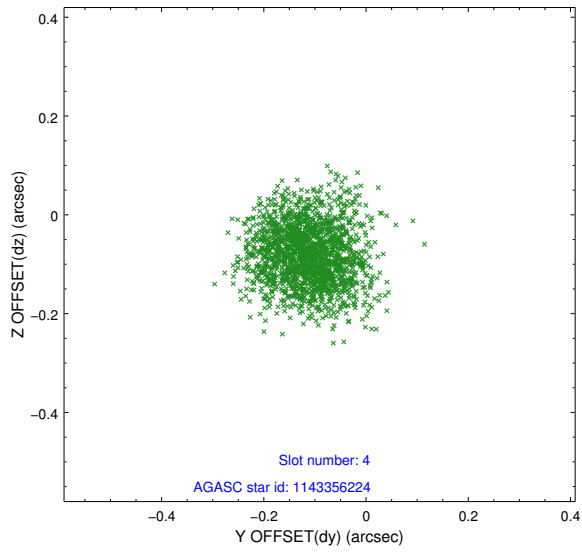
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.16	889	0.093	-0.043	0.010	0.017	0.000000	0.000000	921.80	-1735.11
1	FID		ACIS-S-5	7.20	889	-0.154	0.065	0.006	0.011	0.000000	0.000000	-1826.50	160.75
2	FID		ACIS-S-6	7.30	889	0.039	-0.011	0.011	0.016	0.000000	0.000000	385.40	806.60
3	GUIDE	used	1143354216	8.35	1778	-0.231	-0.048	0.075	0.125	246.330631	-59.289594	1592.54	709.56
4	GUIDE	used	1143356224	8.79	1778	-0.115	-0.081	0.089	0.140	246.265359	-59.478848	999.00	1064.86
5	GUIDE	used	1143357632	8.75	1777	-0.126	-0.130	0.077	0.126	246.234824	-59.537761	819.73	1191.00
6	GUIDE	used	1143483800	7.84	1776	0.370	0.281	0.075	0.122	247.676055	-59.950664	-1515.06	-703.51
7	GUIDE	used	1143483248	8.70	1777	0.098	-0.030	0.106	0.163	247.040647	-59.896822	-913.13	289.11

2.4 Star Slots

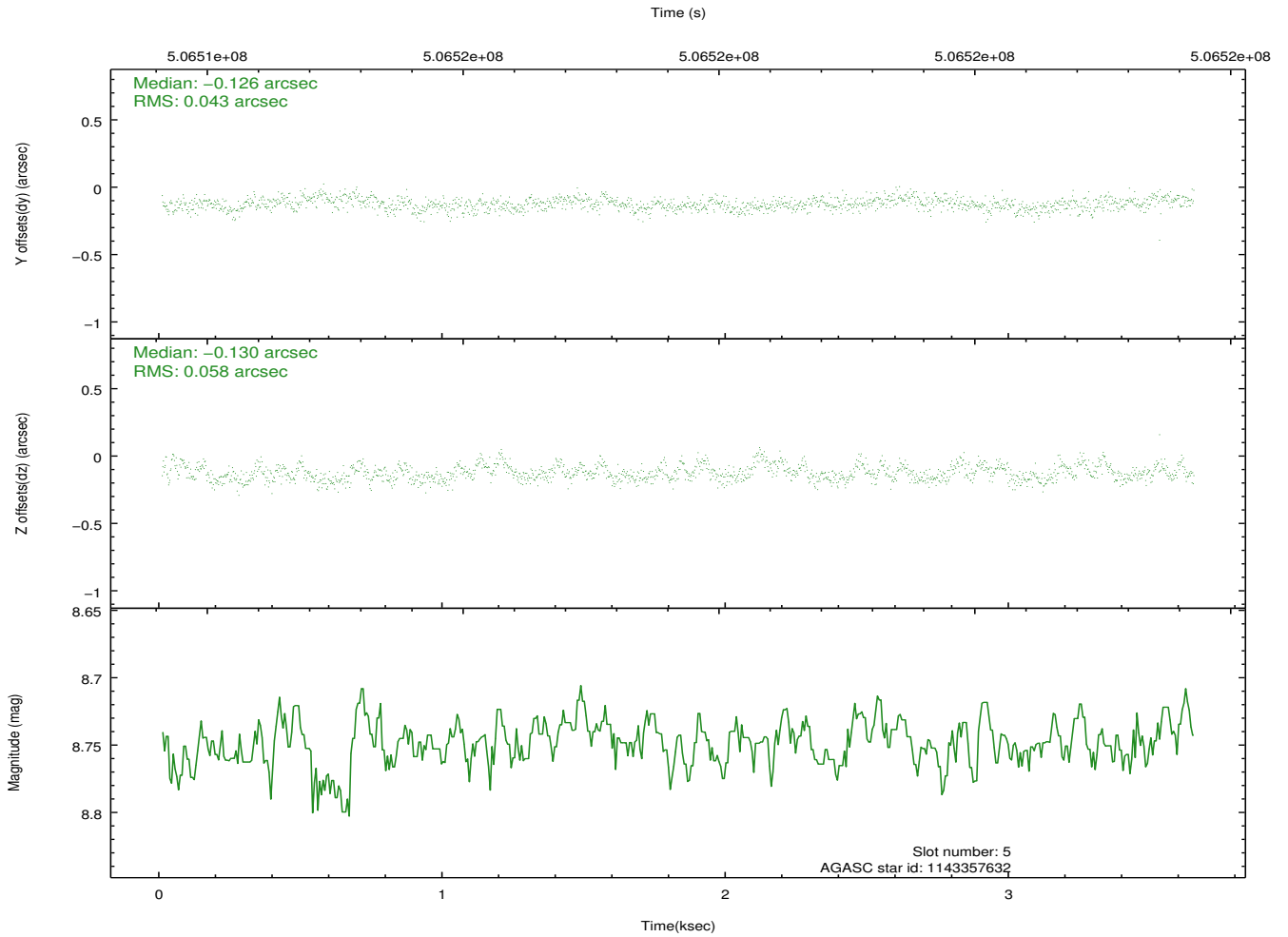
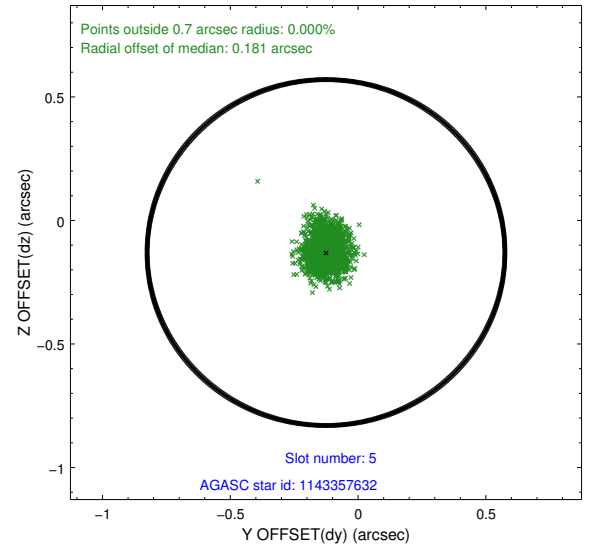
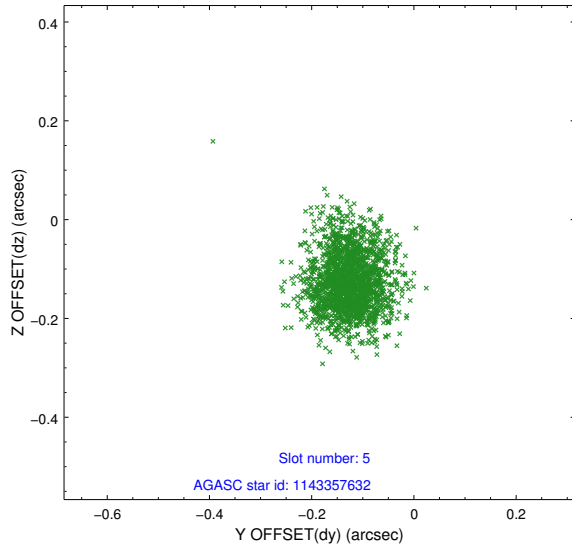
2.4.1 Slot 3



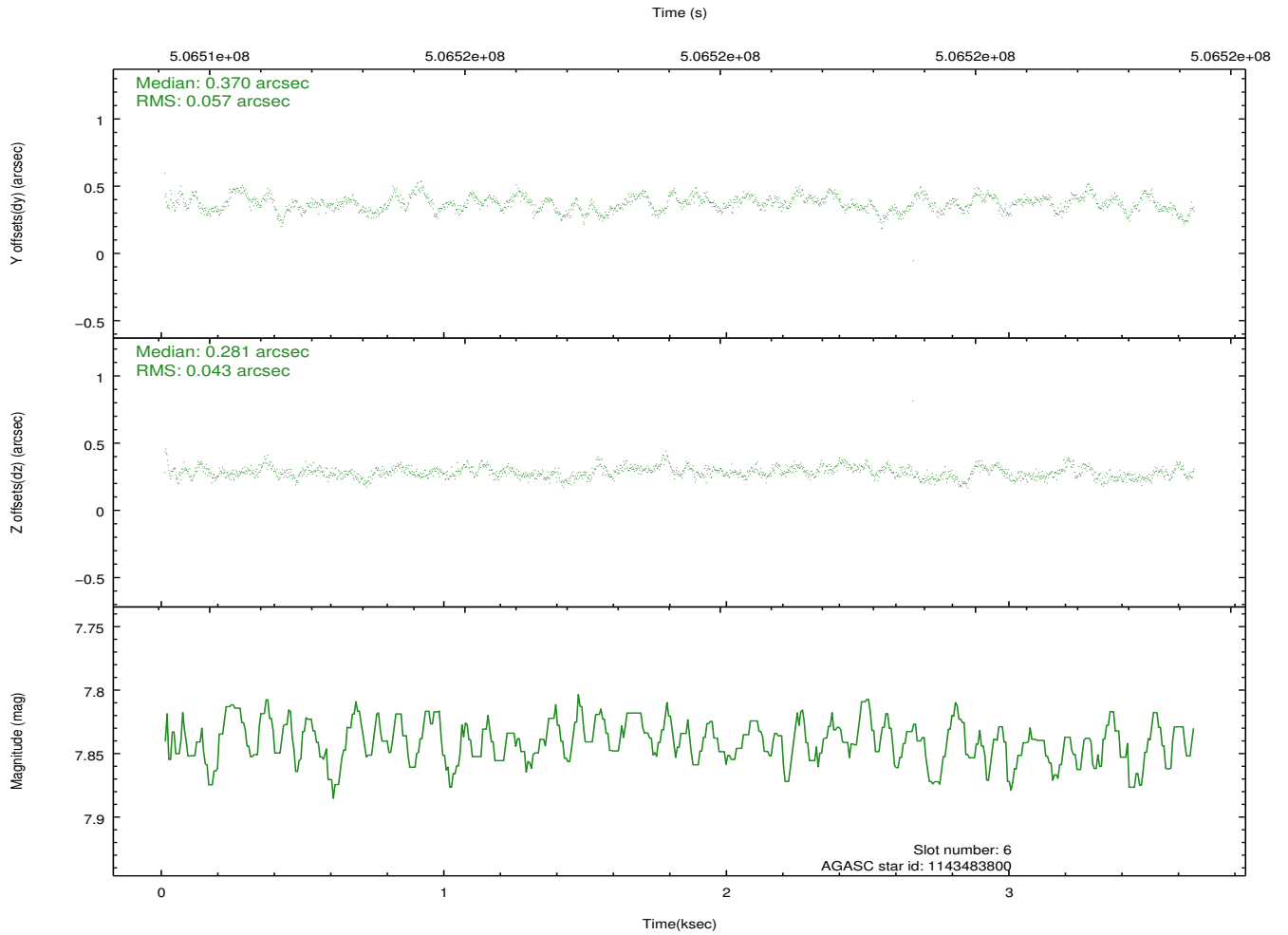
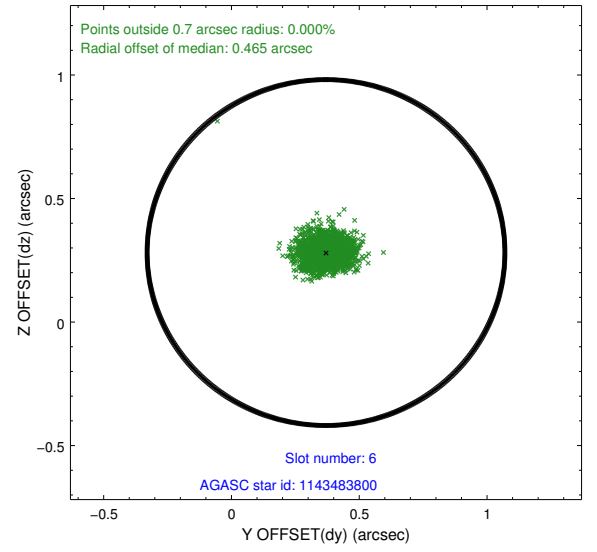
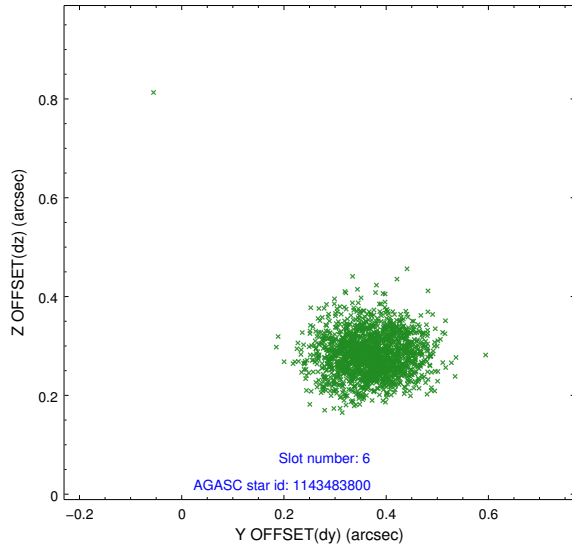
2.4.2 Slot 4



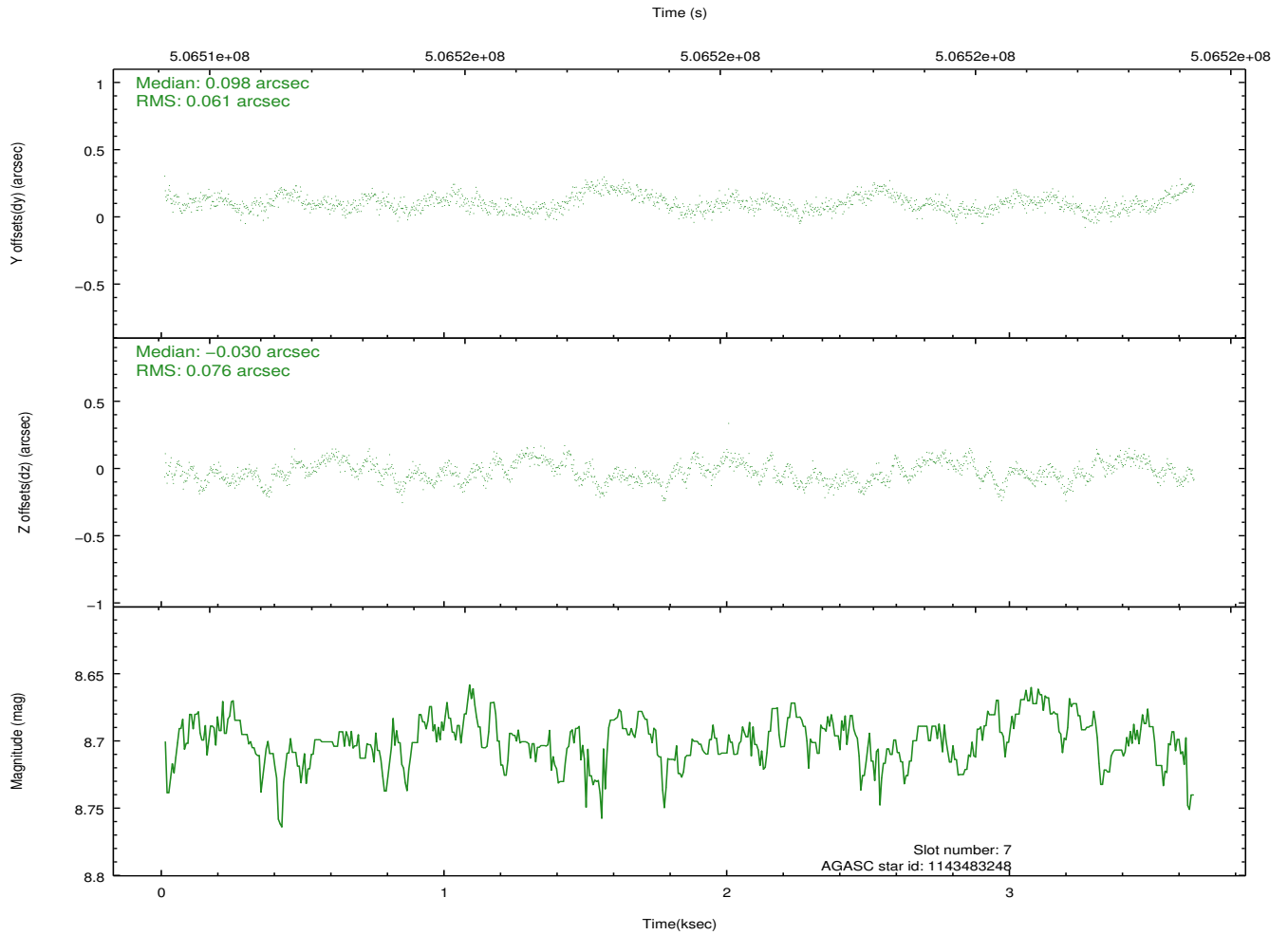
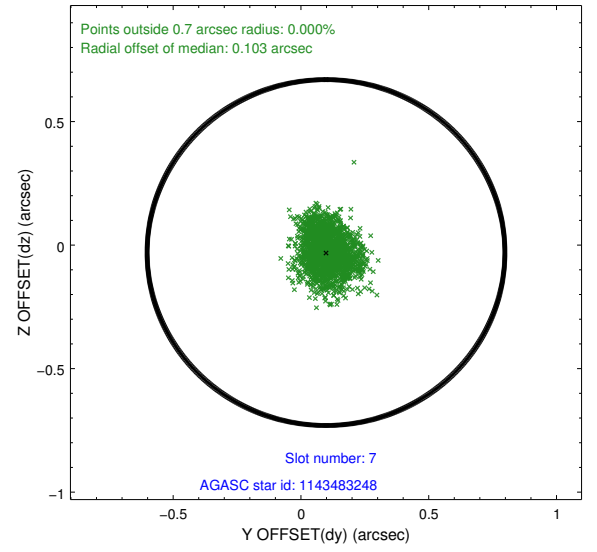
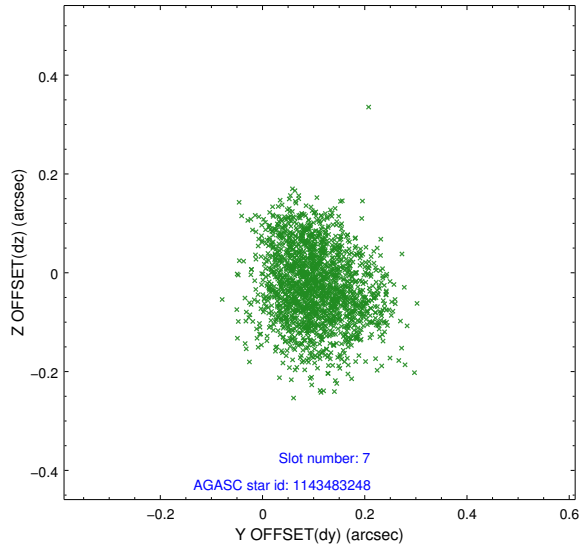
2.4.3 Slot 5



2.4.4 Slot 6

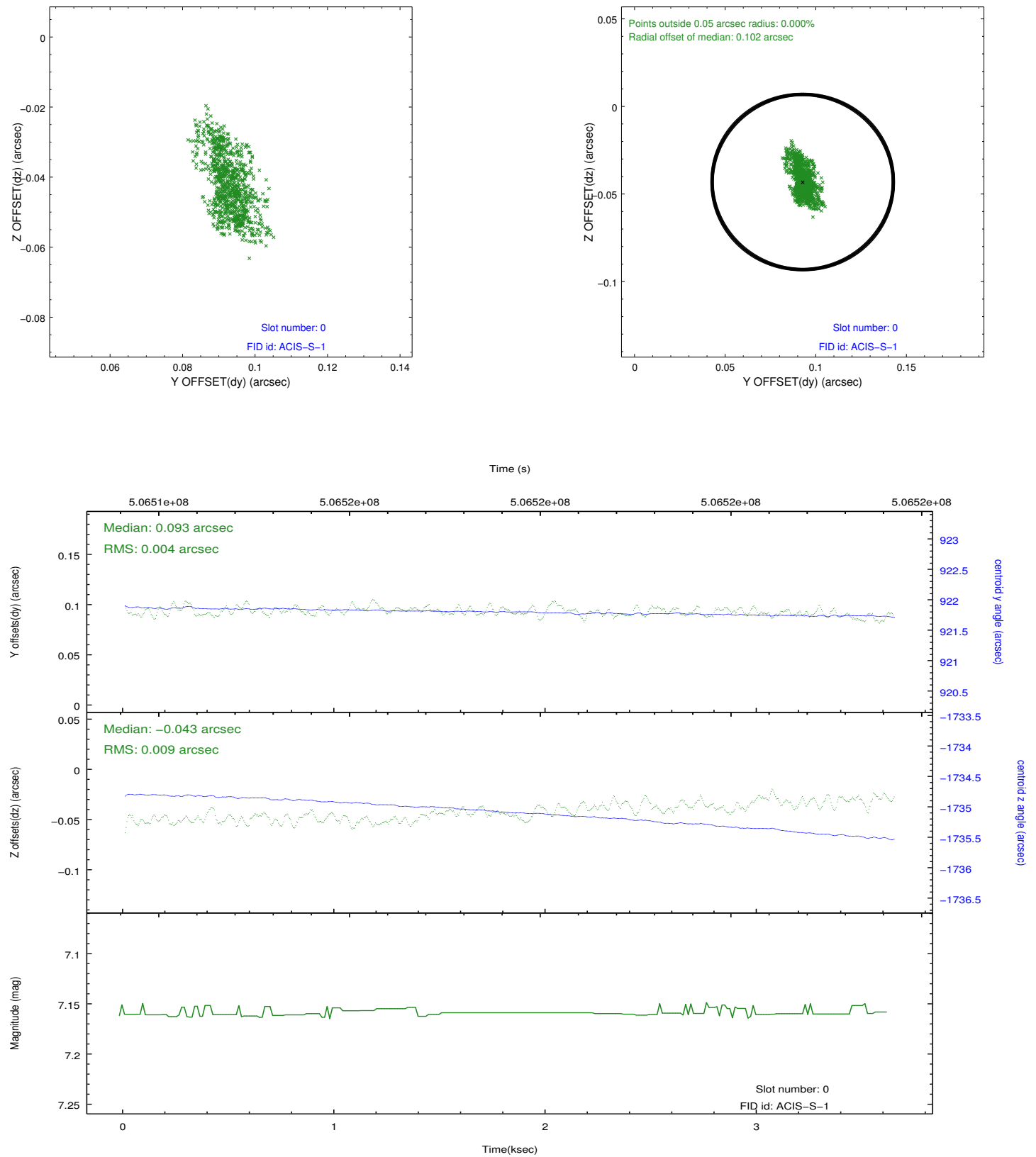


2.4.5 Slot 7

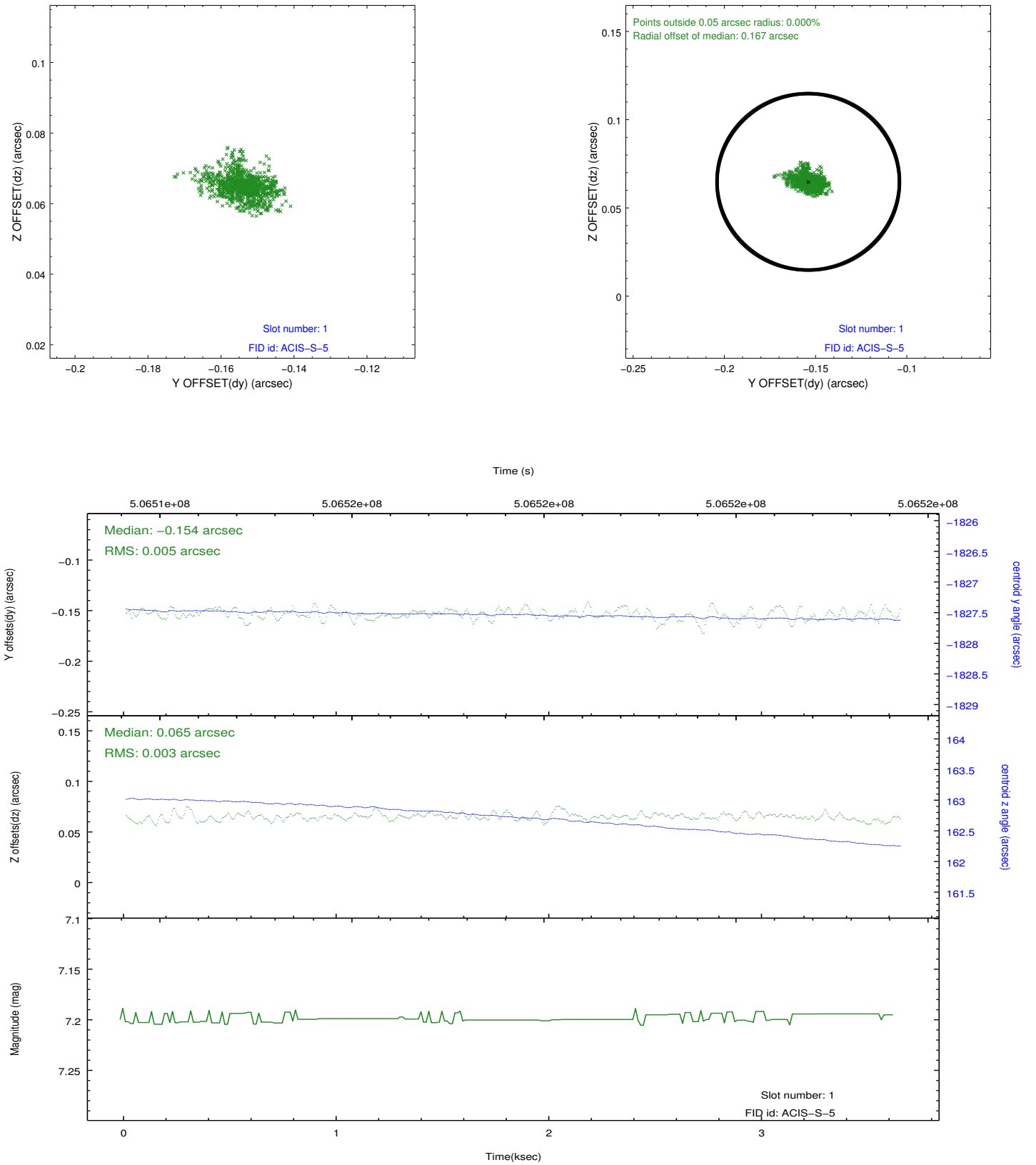


2.5 FID Slots

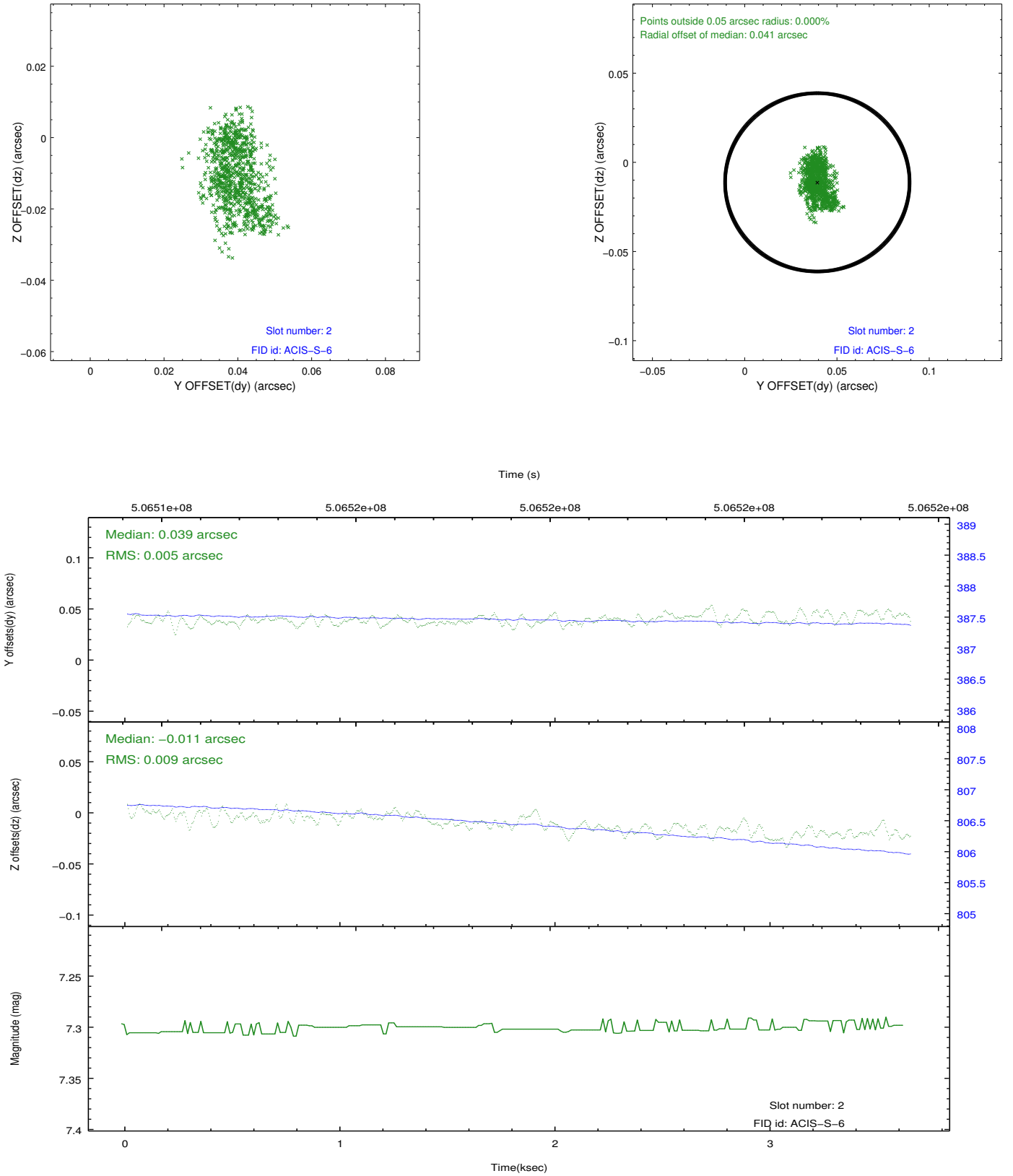
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5670143470764

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.