

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17038 - L2 Version 1
Chandra X-Ray Center

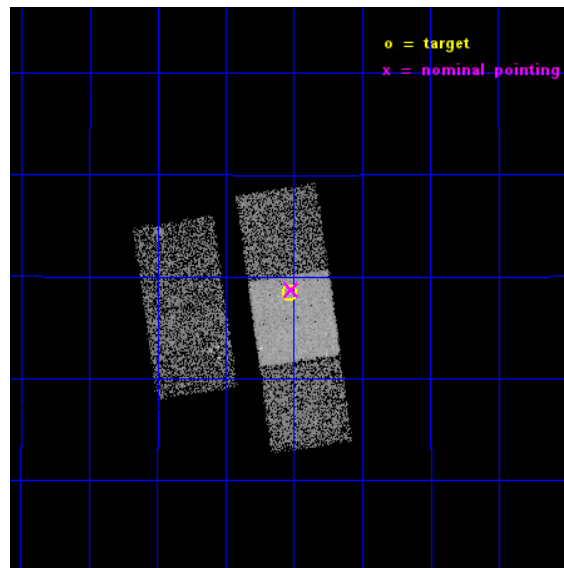
L2 Processing Date : Feb 23 2015

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1 Front

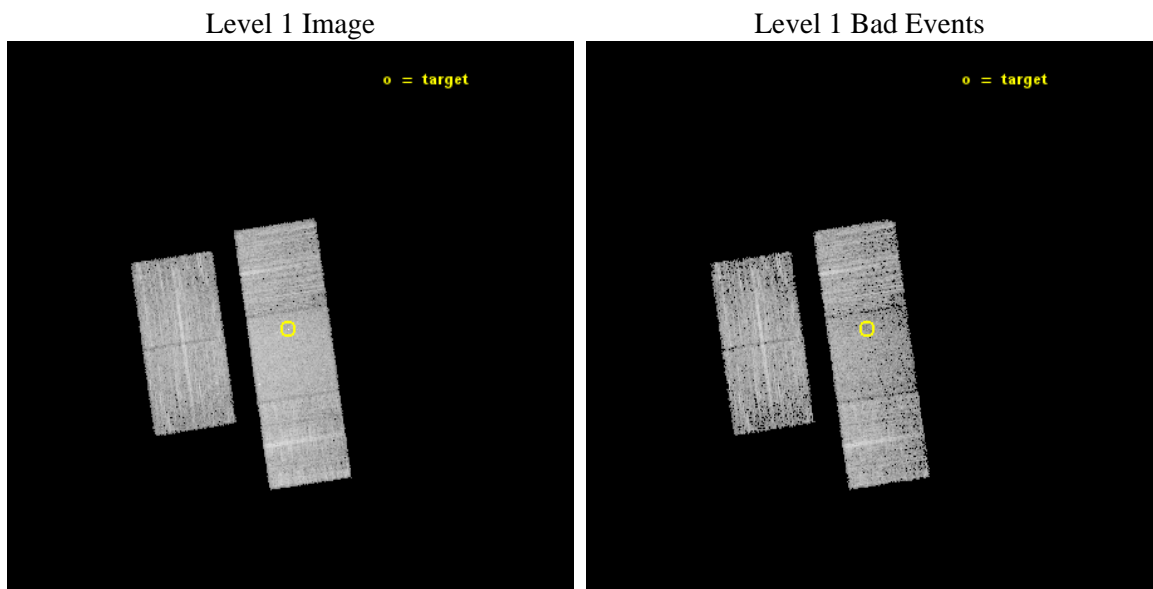
seq_num	703042	Sequence number
obs_id	17038	Observation id
title	Probing the Growth of Massive Black Holes in Dwarf Galaxies with Chandra and HST	Proposal title
observer	Dr. Amy Reines	Principal investigator
object	J160531.84+174826.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.3825	Observer's specified target RA [deg]
dec_targ	17.807278	Observer's specified target Dec [deg]
ra_nom	241.37954896987	Nominal RA [deg]
dec_nom	17.811981638705	Nominal Dec [deg]
roll_nom	81.604520429769	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7851.6333863735	Sum of GTIs [s]
livetime	7749.0460158921	Livetime [s]
ontime2	7851.4692263603	Sum of GTIs [s]
ontime3	7851.5513063669	Sum of GTIs [s]
ontime6	7851.5923464298	Sum of GTIs [s]
ontime7	7851.6333863735	Sum of GTIs [s]
ontime8	7851.5102664232	Sum of GTIs [s]
l2events	40236	Number of level 2 events



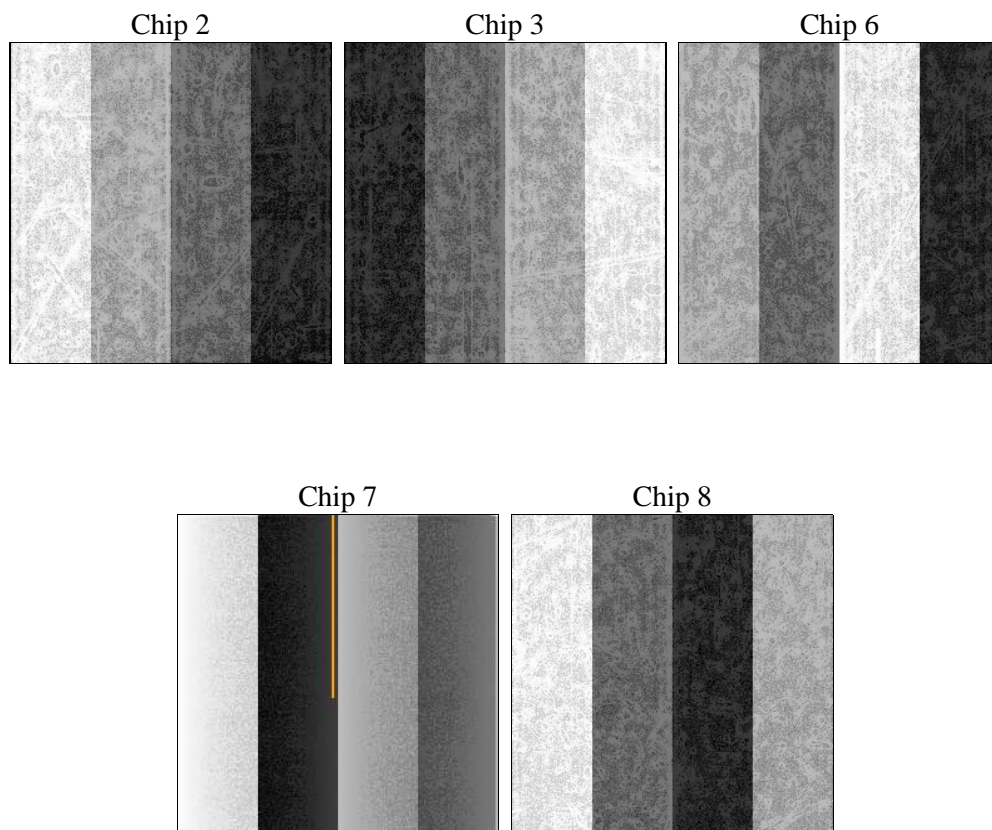
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	7851.6333863735	Sum of GTIs [s]
caldsver	4.6.6	 	ontime2	7851.4692263603	Sum of GTIs [s]
date	2015-02-23T12:01:08	Date and time of file creation	ontime3	7851.5513063669	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	7851.5923464298	Sum of GTIs [s]
			ontime7	7851.6333863735	Sum of GTIs [s]
			ontime8	7851.5102664232	Sum of GTIs [s]
			l1events	225452	Number of level 1 events

2.1.4 Events

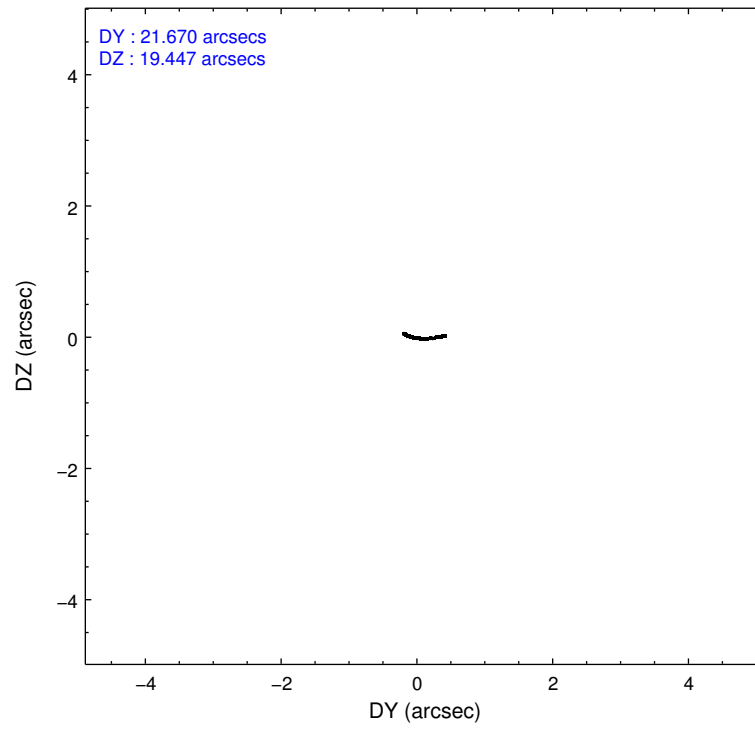
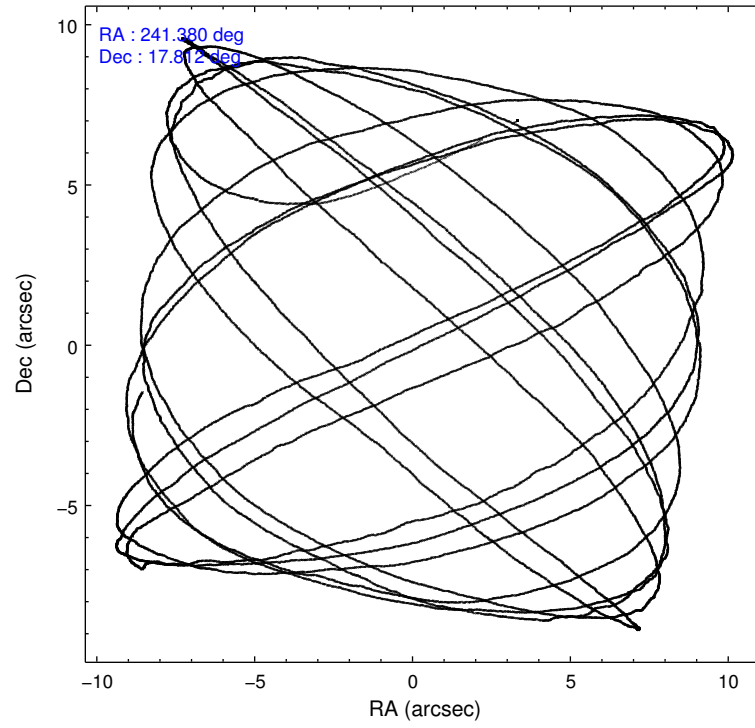
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	39084	38621	40581	53976	53190
rejected events	34853	34234	35688	29782	39210
rejected %	89%	88%	87%	55%	73%

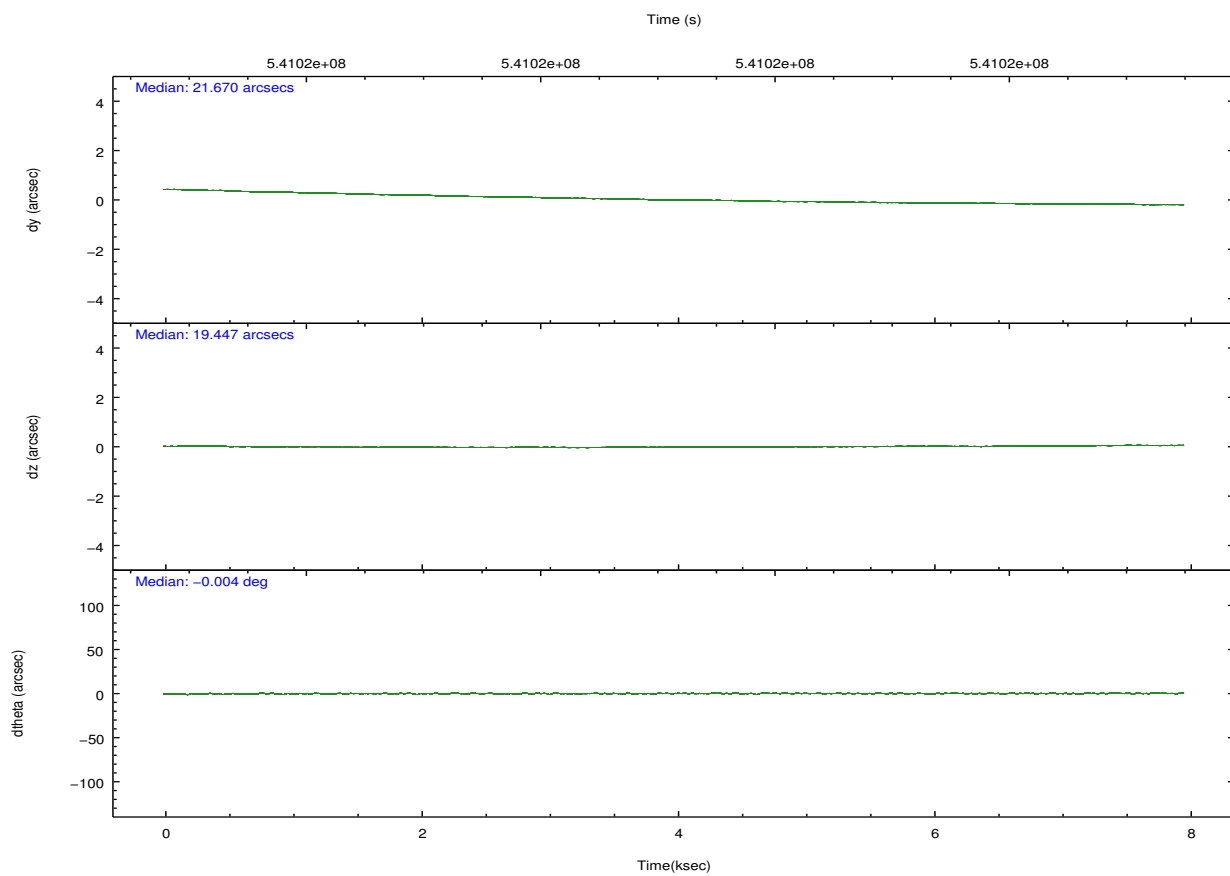
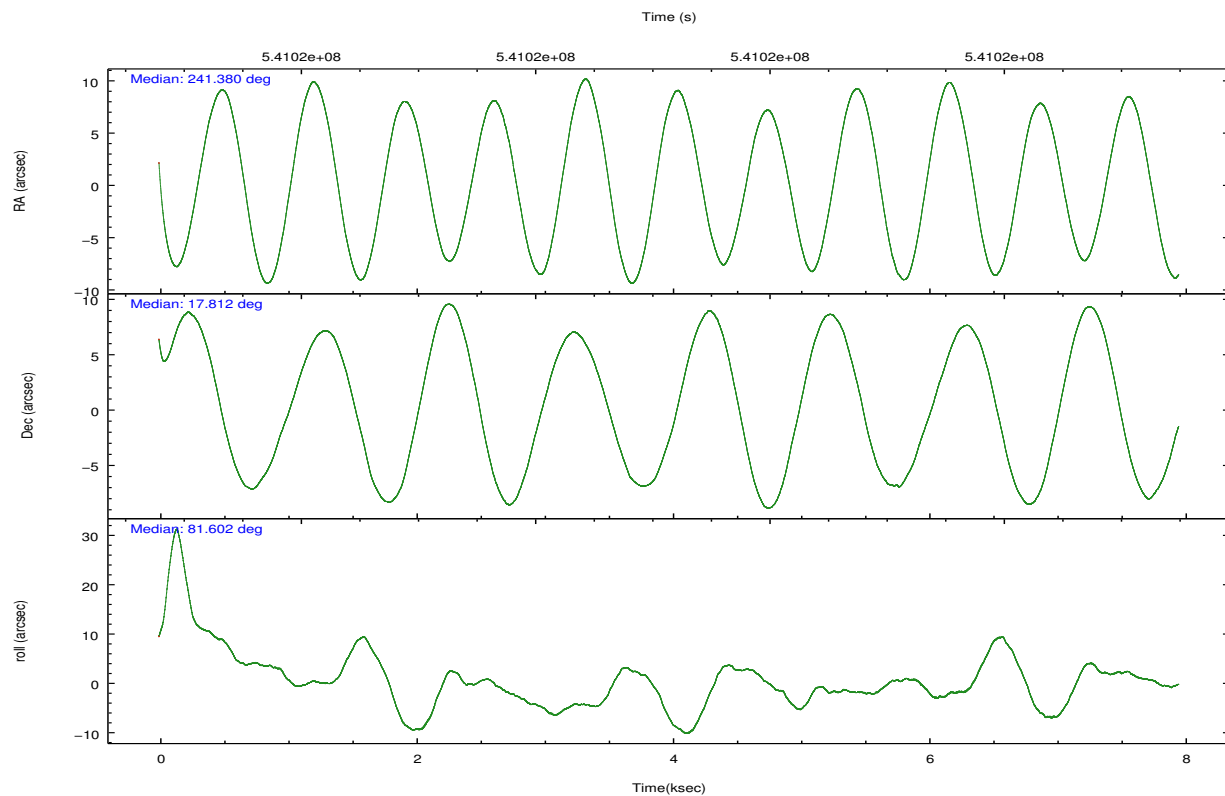
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1584	1653	1789	2354	4072
	4%	4%	4%	4%	7%
grade 1 events	28	18	15	62	35
	0%	0%	0%	0%	0%
grade 2 events	1008	903	1122	5231	3382
	2%	2%	2%	9%	6%
grade 3 events	416	432	443	1973	1378
	1%	1%	1%	3%	2%
grade 4 events	469	494	441	2012	1327
	1%	1%	1%	3%	2%
grade 5 events	1537	2067	1945	5163	2962
	3%	5%	4%	9%	5%
grade 6 events	757	907	1101	12634	3826
	1%	2%	2%	23%	7%
grade 7 events	33285	32147	33725	24547	36208
	85%	83%	83%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	241.390557	241.3795489698678	CCD I2 on	Y	Y
[deg] Pointing Dec	17.786567	17.81198163870499	CCD I3 on	Y	Y
[deg] Pointing Roll	81.444549	81.60452042976911	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	O1	Y
[s] Observation start time (MET)	541015300.184000	541014358.00643	CCD S5 on	N	N
Observation start date	2015-02-22T18:00:33	2015-02-22T17:45:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	541020300.184000	541023334.95693	On-chip summing requested	N	N
Observation end date	2015-02-22T19:23:53	2015-02-22T20:15:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



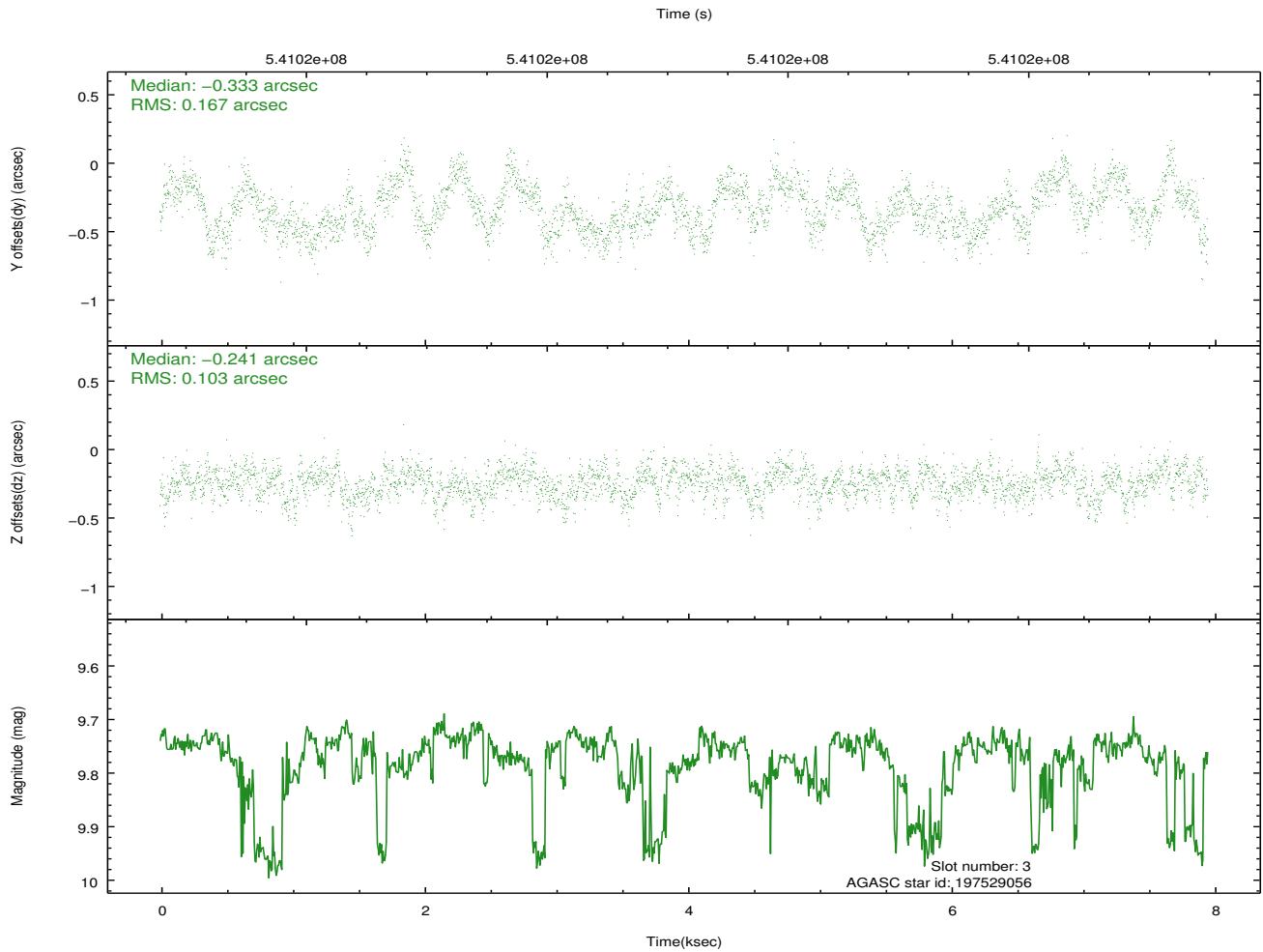
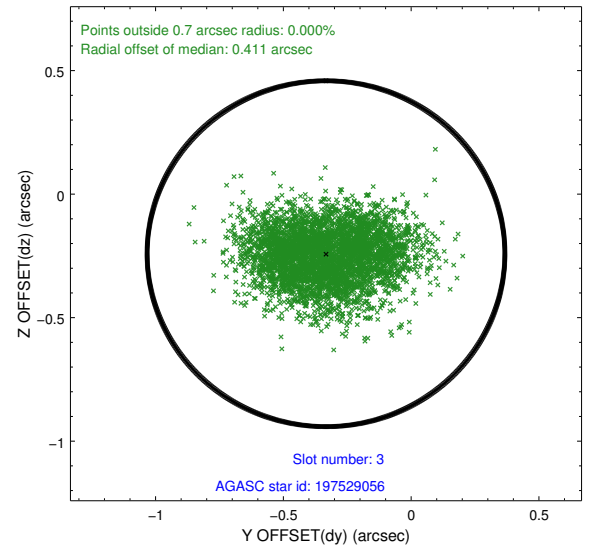
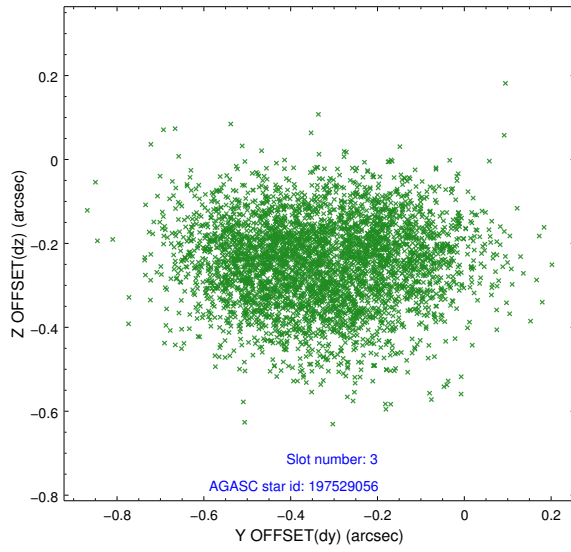


Slot Statistics

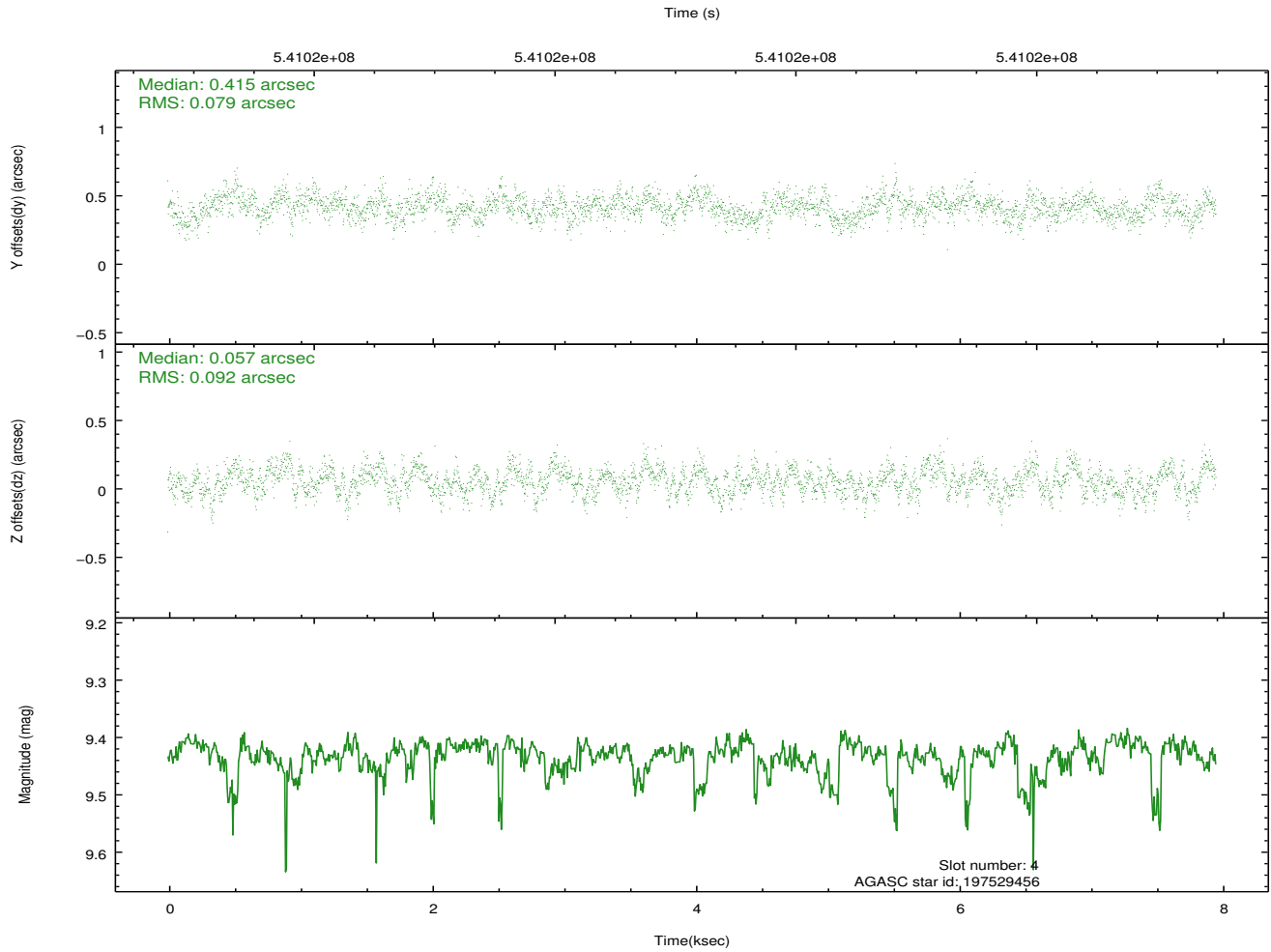
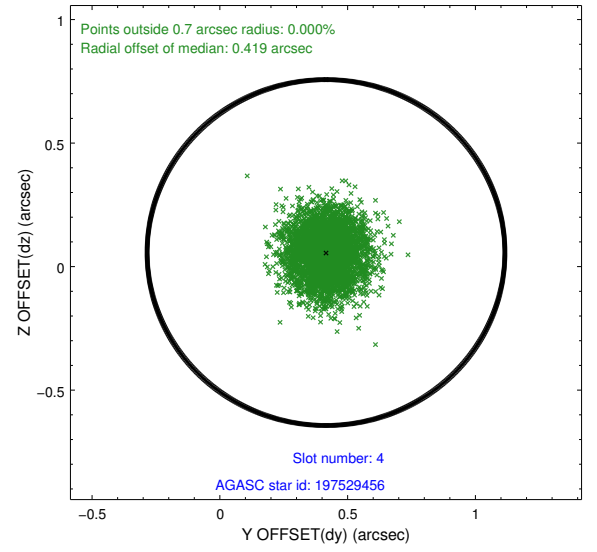
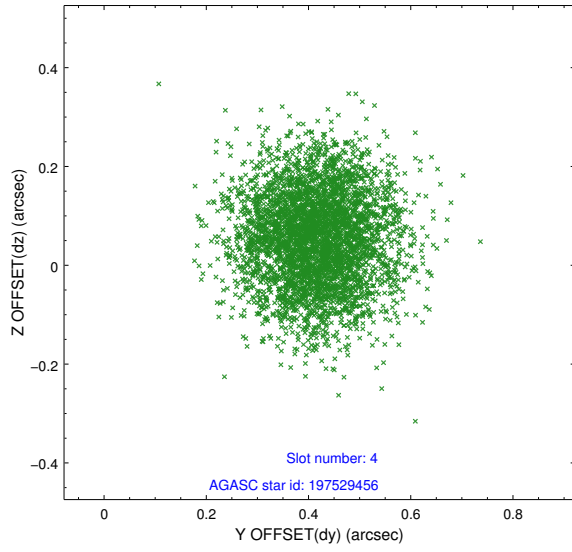
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	1941	-0.163	-0.086	0.007	0.012	0.000000	0.000000	-775.02	-1741.04
1	FID		ACIS-S-4	7.19	1941	0.379	0.101	0.007	0.013	0.000000	0.000000	2138.46	166.91
2	FID		ACIS-S-5	7.20	1940	-0.247	-0.007	0.009	0.016	0.000000	0.000000	-1827.05	161.26
3	GUIDE	used	197529056	9.77	3855	-0.333	-0.241	0.210	0.334	241.695051	18.343610	2139.94	-729.10
4	GUIDE	used	197529456	9.43	3879	0.415	0.057	0.130	0.205	241.685864	18.193984	1602.76	-780.39
5	GUIDE	used	197533488	6.55	3882	-0.450	-0.667	0.088	0.140	240.957637	17.802774	-160.93	1475.94
6	GUIDE	used	197658520	8.93	3882	0.148	0.430	0.118	0.184	242.022290	17.229051	-1657.10	-2444.34
7	GUIDE	used	197659528	9.57	3878	0.221	0.424	0.221	0.325	242.009225	17.330063	-1305.13	-2346.06

2.4 Star Slots

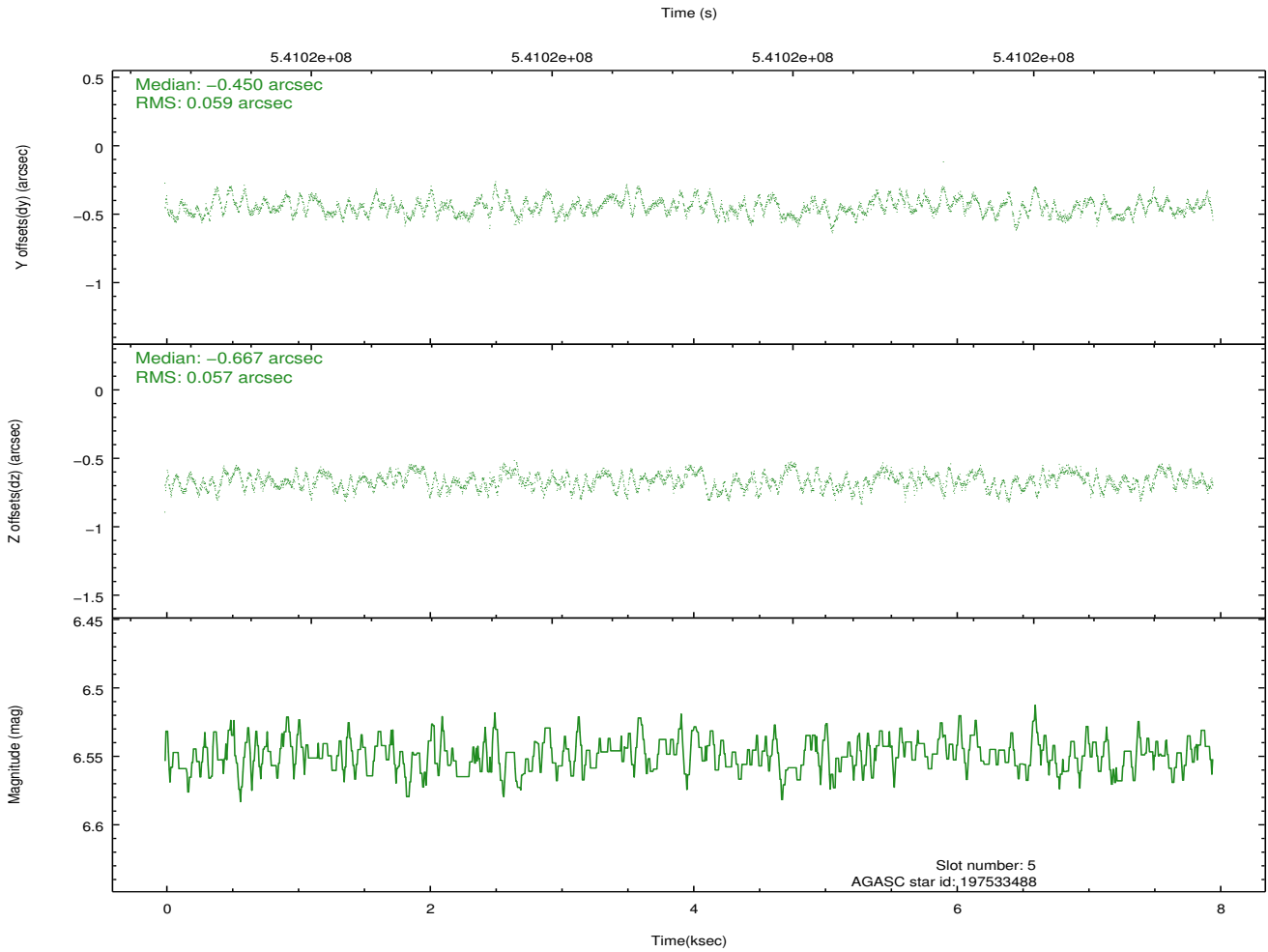
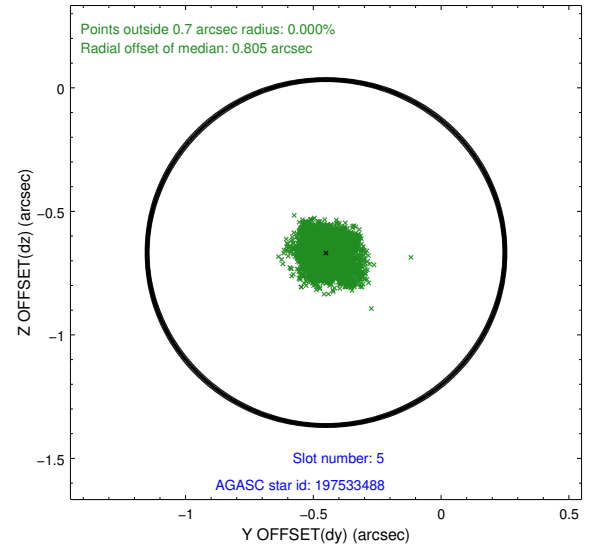
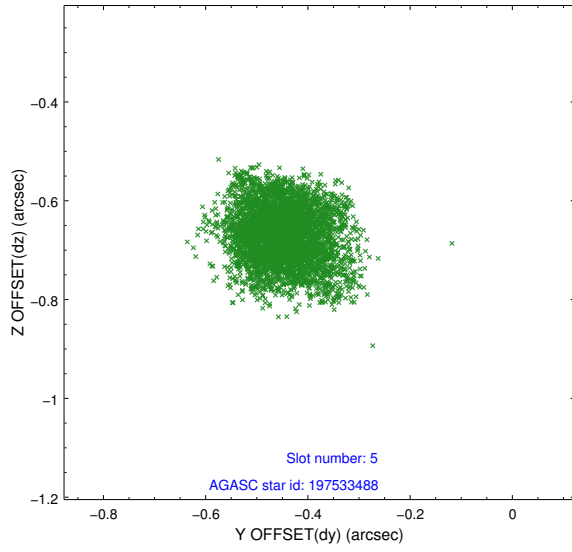
2.4.1 Slot 3



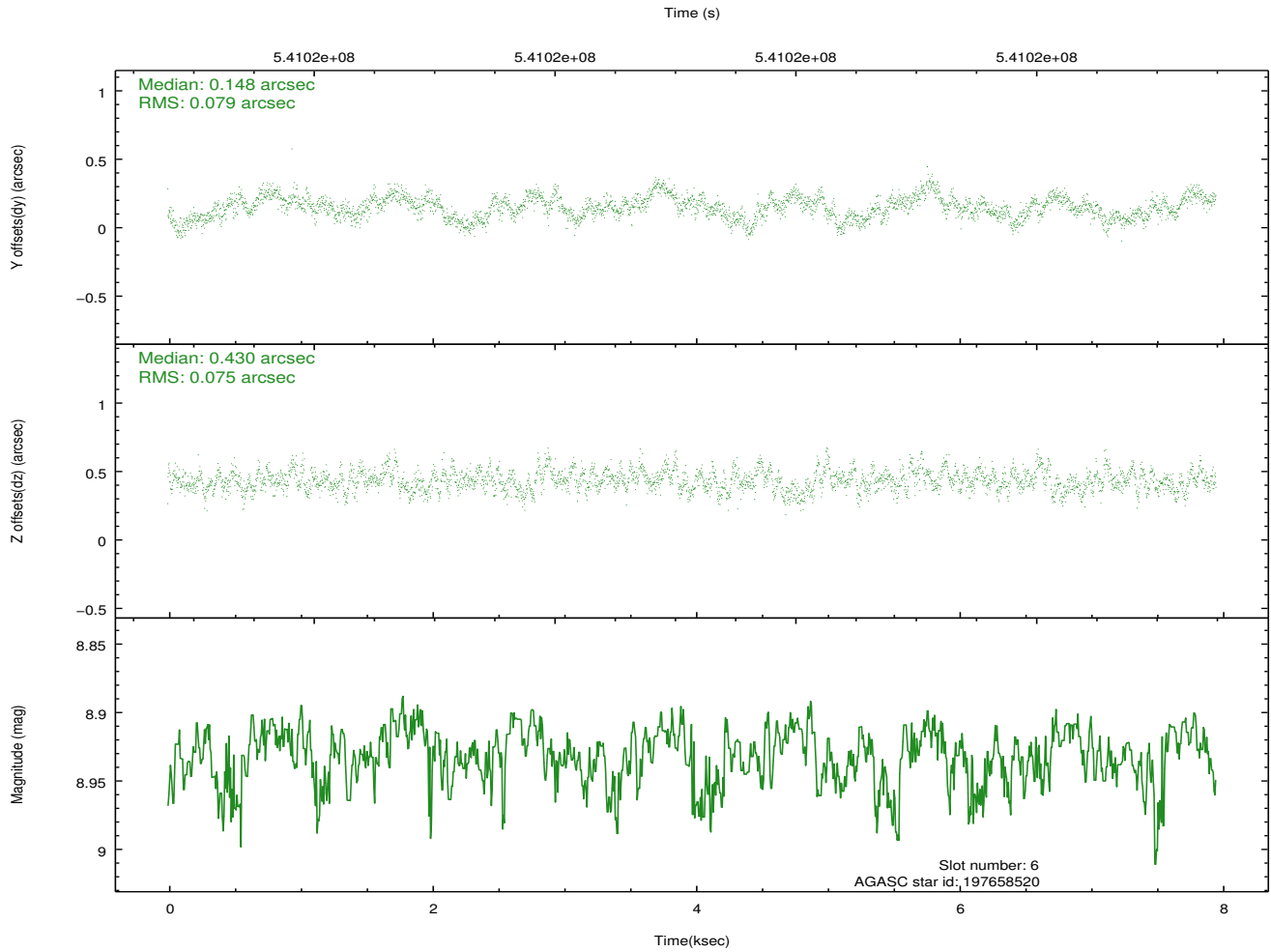
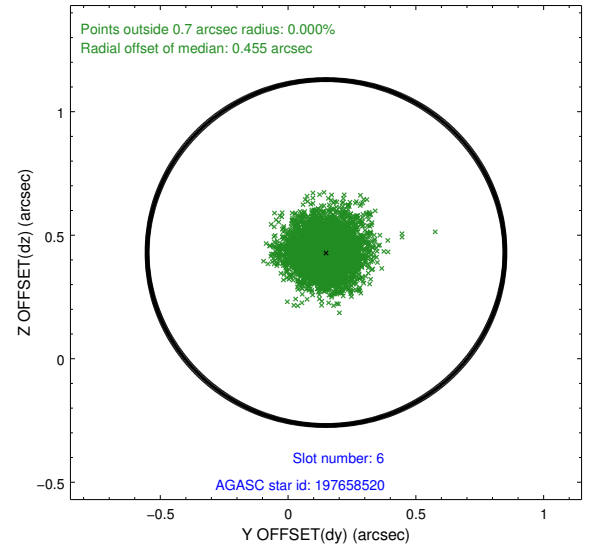
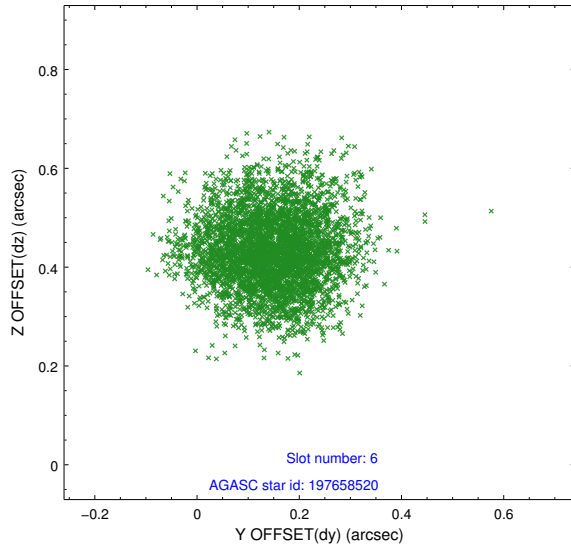
2.4.2 Slot 4



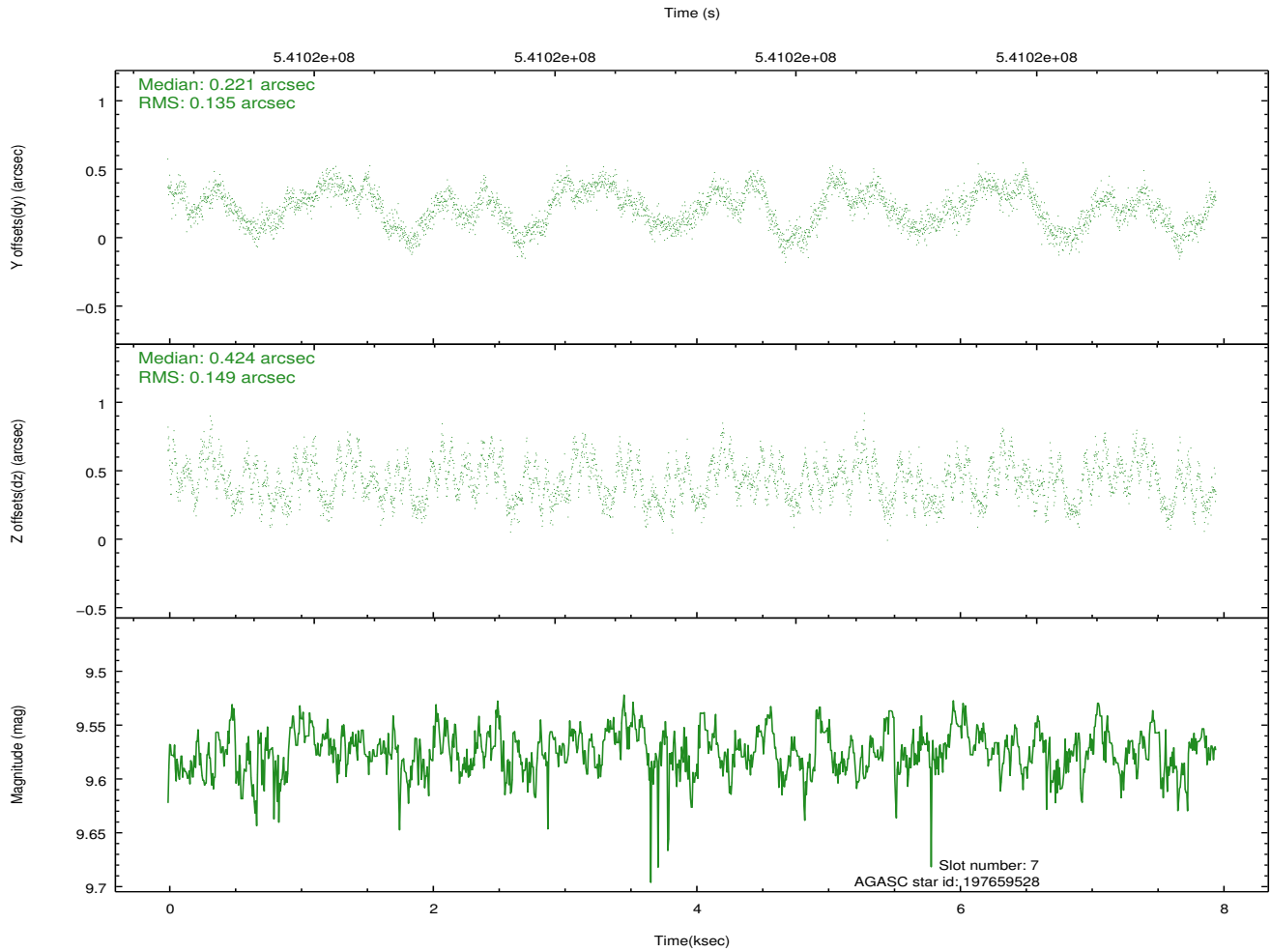
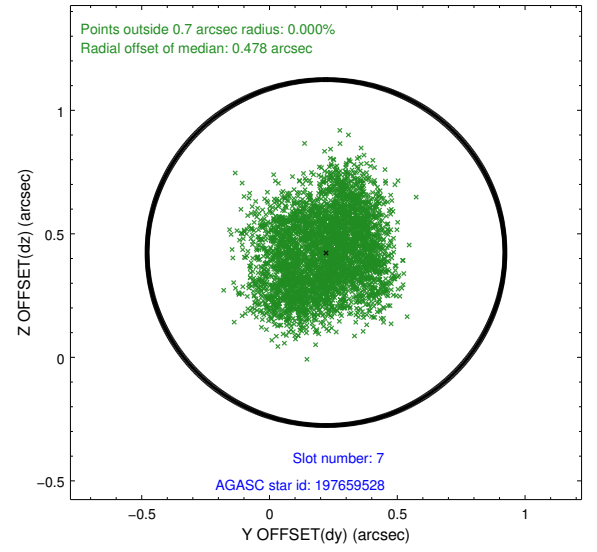
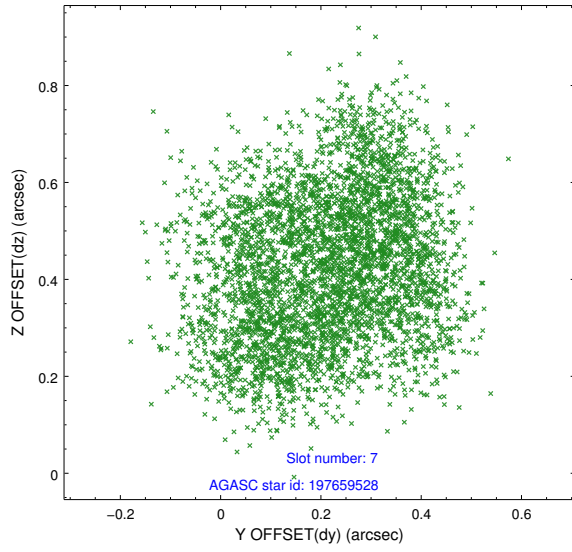
2.4.3 Slot 5



2.4.4 Slot 6

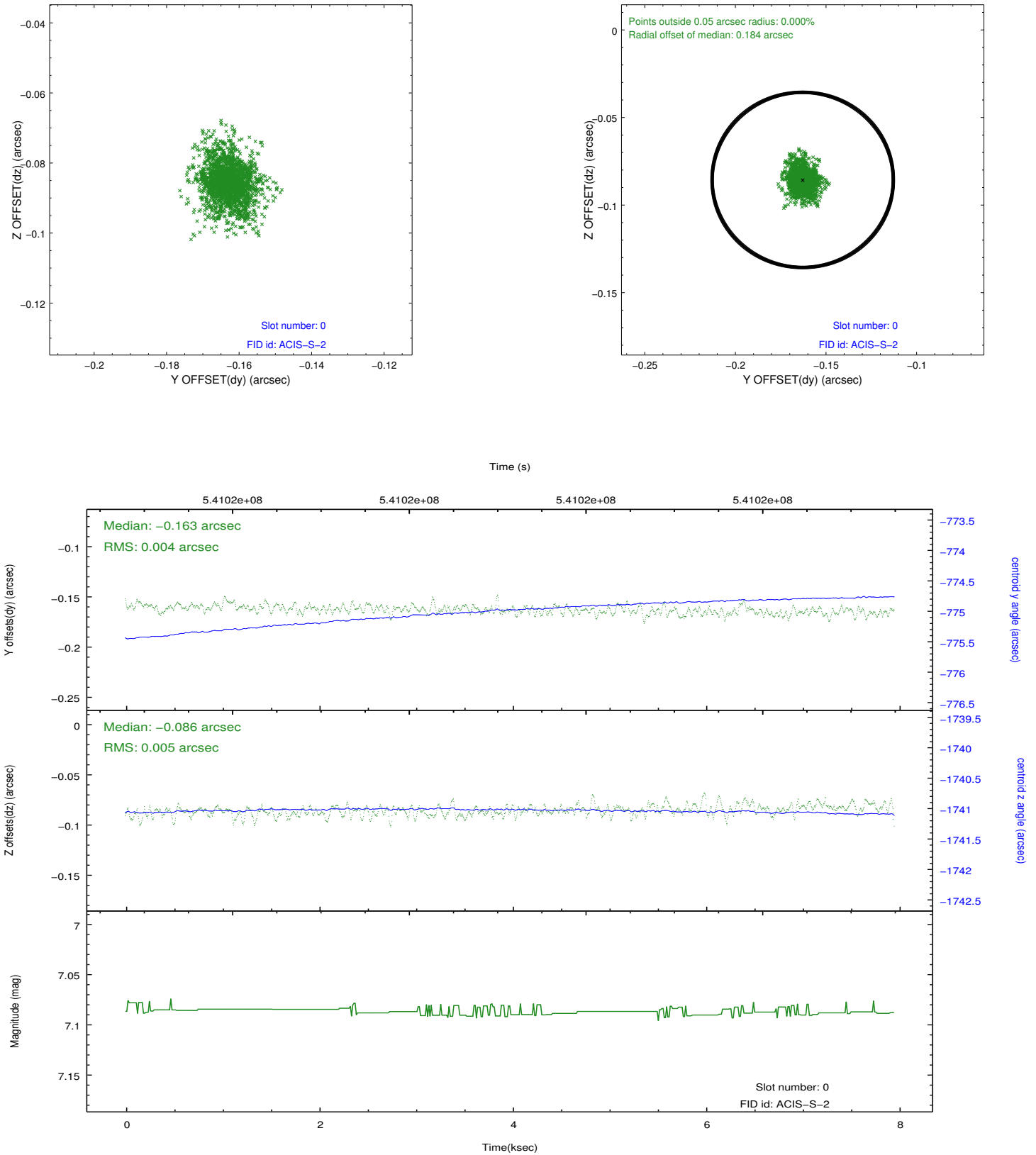


2.4.5 Slot 7

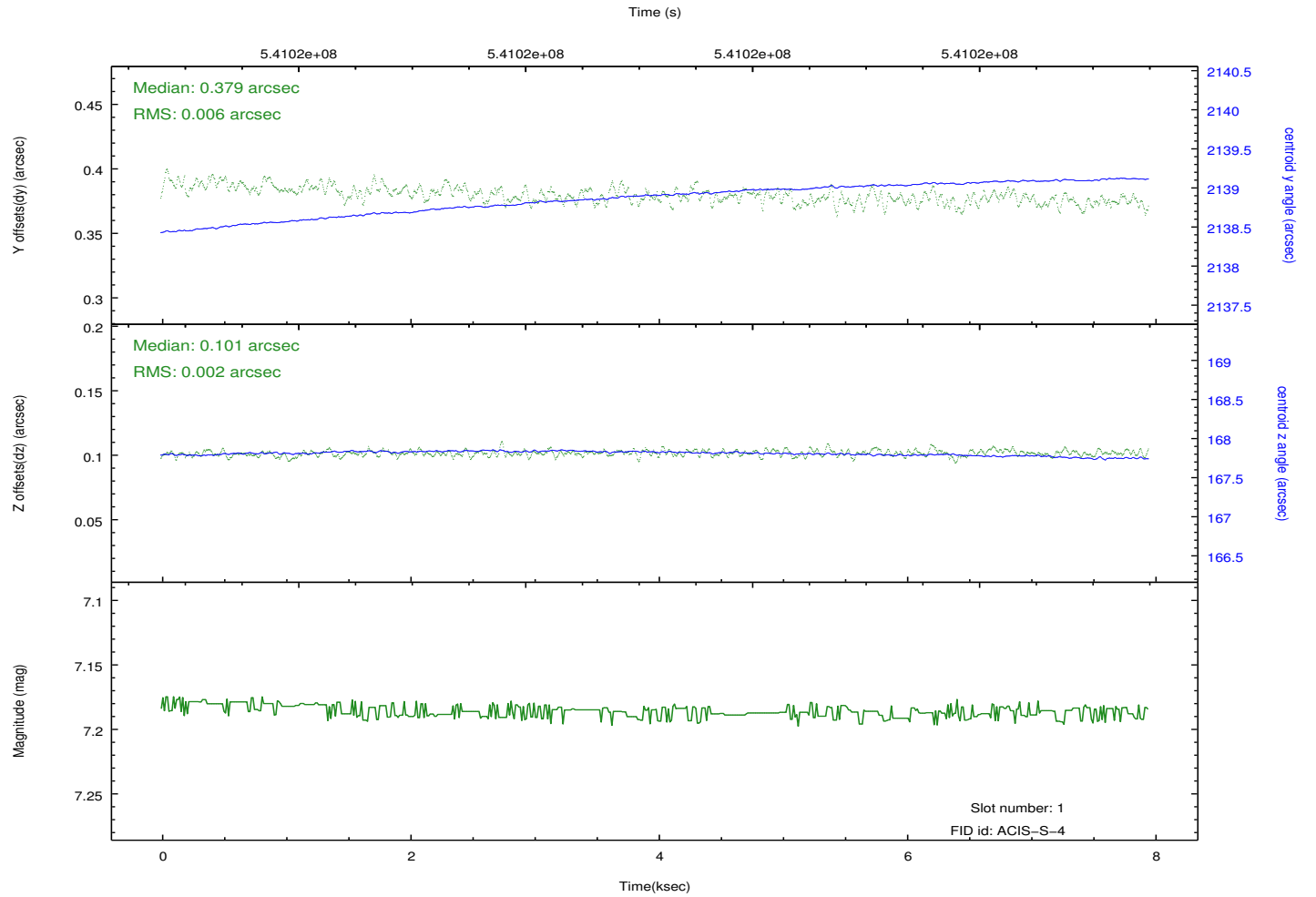
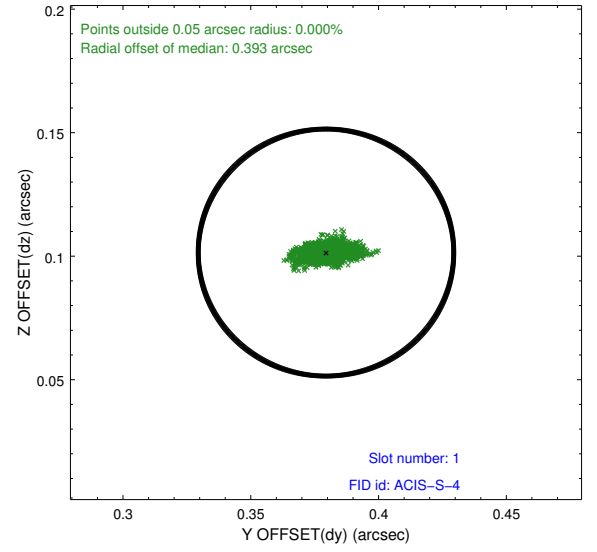
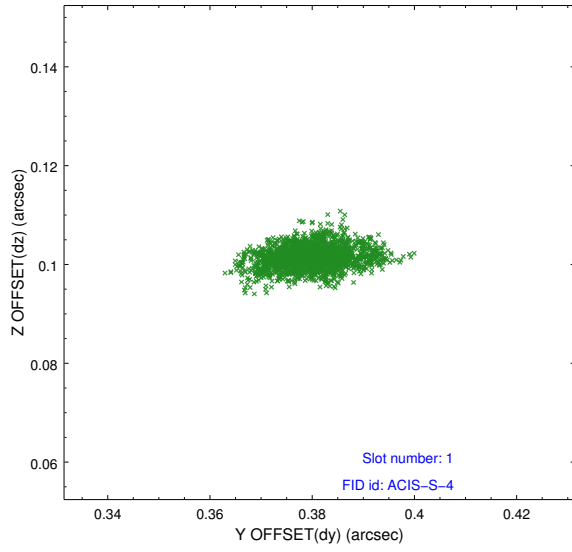


2.5 FID Slots

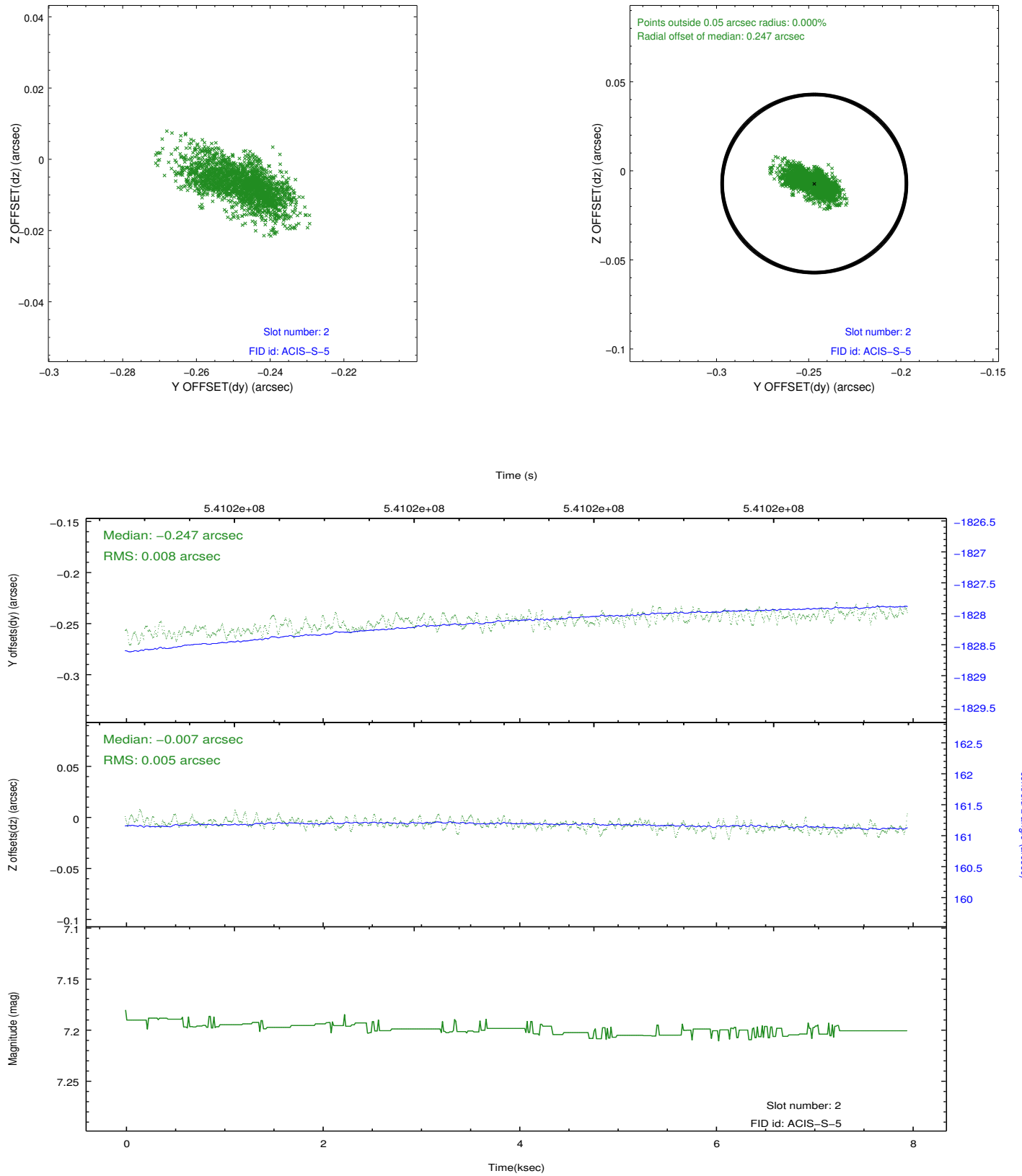
2.5.1 Slot 0



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)	2015.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8516333863735

A.2 Comments

Joint proposal with HST.