

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18685 - L2 Version 1
Chandra X-Ray Center

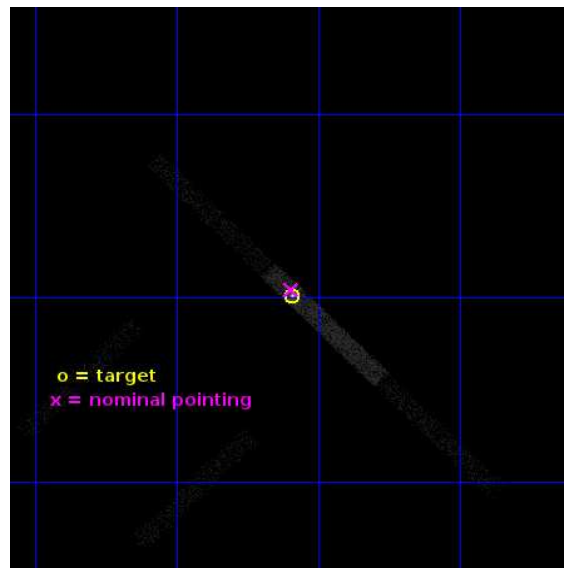
L2 Processing Date : Oct 17 2015

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1 Front

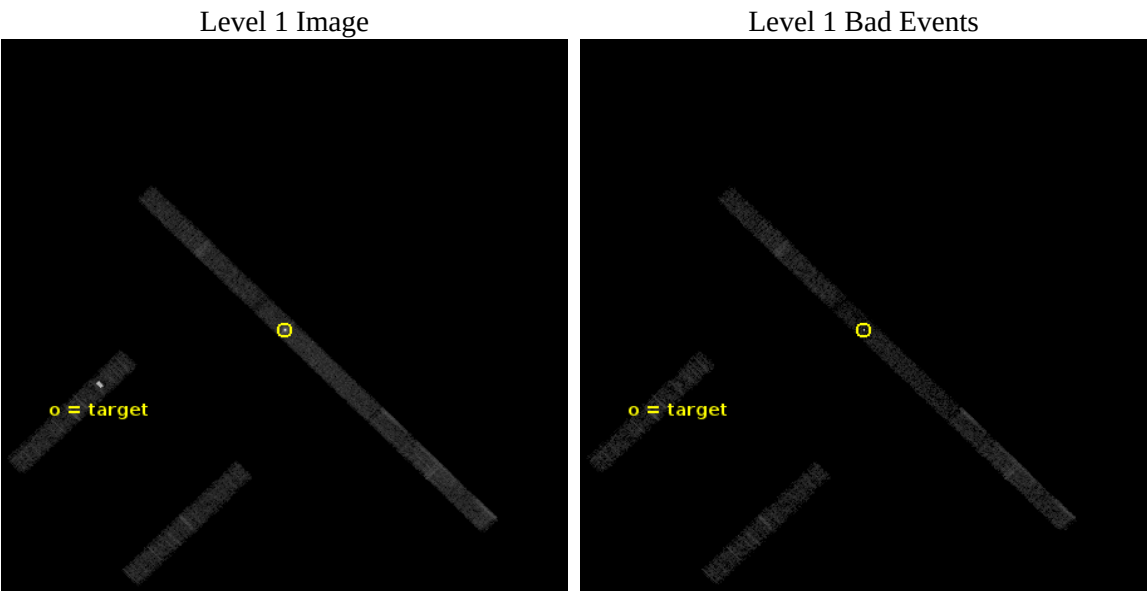
seq_num	703250	Sequence number
obs_id	18685	Observation id
title	Expanding Superbubbles in Luminous AGN: Unifying Chandra with MUSE	
observer	Dr. Grant Tremblay	Principal investigator
object	Mrk 1044	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.522917	Observer's specified target RA [deg]
dec_targ	-8.998111	Observer's specified target Dec [deg]
ra_nom	37.523476554679	Nominal RA [deg]
dec_nom	-8.9926888376937	Nominal Dec [deg]
roll_nom	45.156731112269	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14067.9009583	Sum of GTIs [s]
livetime	13288.79773131	Livetime [s]
ontime2	14067.9009583	Sum of GTIs [s]
ontime3	14067.9009583	Sum of GTIs [s]
ontime6	14067.9009583	Sum of GTIs [s]
ontime7	14067.9009583	Sum of GTIs [s]
ontime8	14067.9009583	Sum of GTIs [s]
l2events	27624	Number of level 2 events



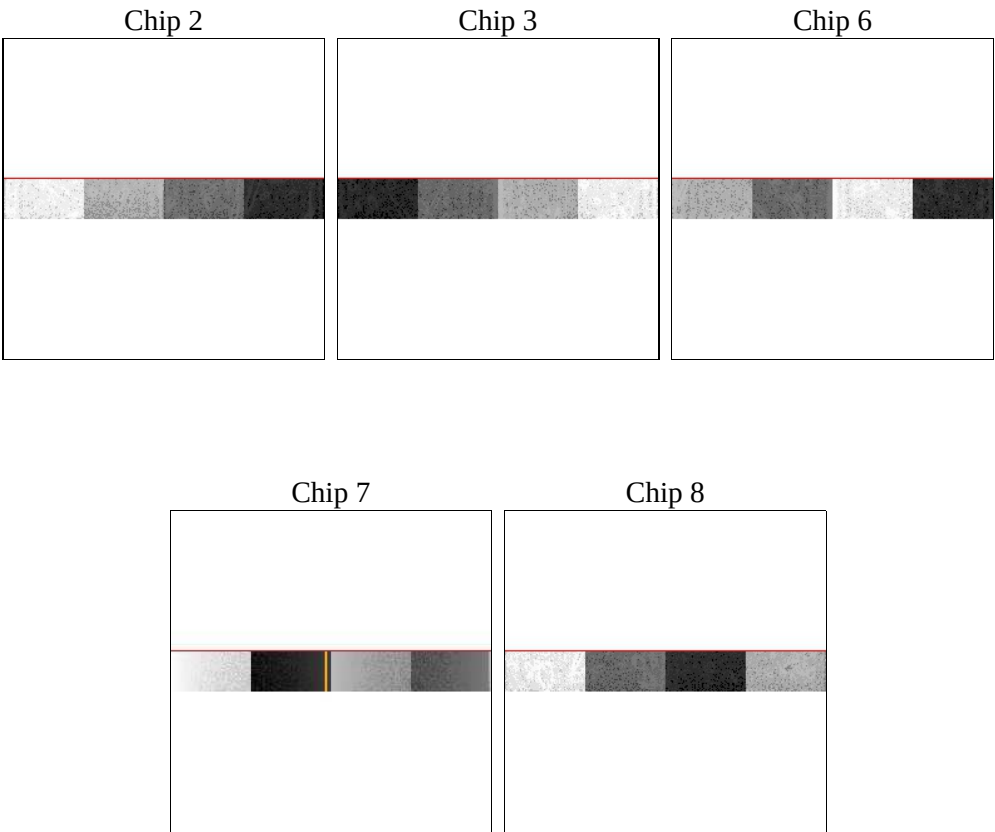
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	14067.9009583	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime2	14067.9009583	Sum of GTIs [s]
date	2015-10-17T04:36:52	Date and time of file creation	ontime3	14067.9009583	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	14067.9009583	Sum of GTIs [s]
			ontime7	14067.9009583	Sum of GTIs [s]
			ontime8	14067.9009583	Sum of GTIs [s]
			l1events	111495	Number of level 1 events

2.1.4 Events

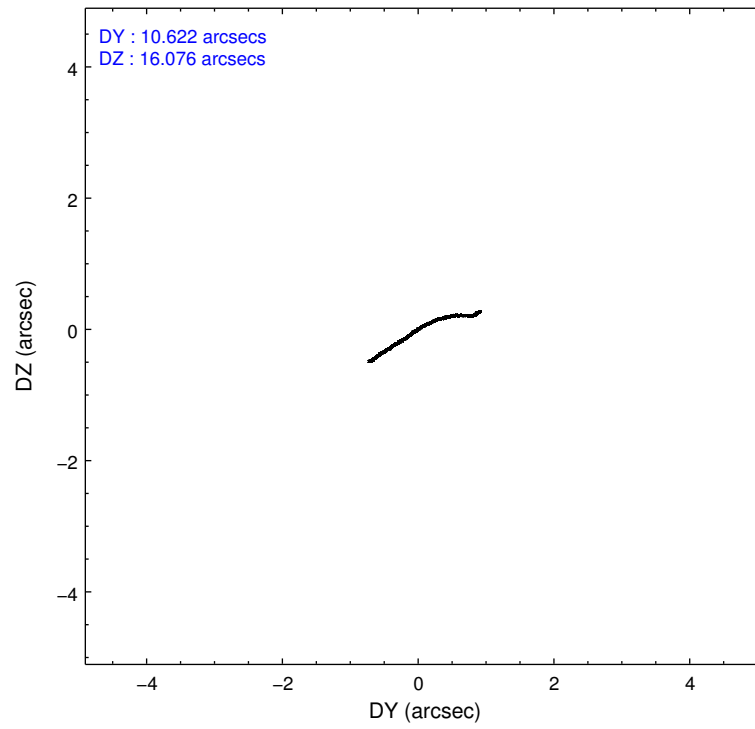
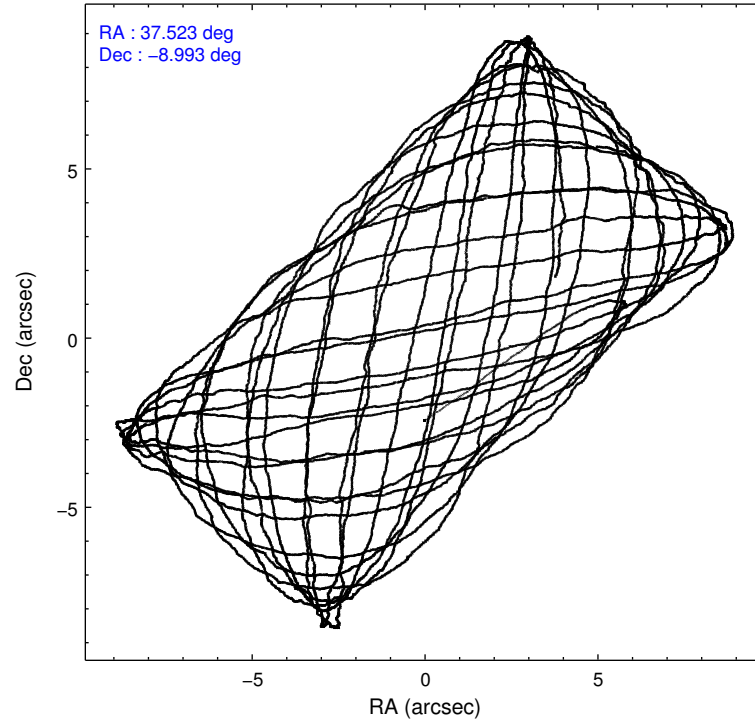
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	31044	11845	12945	37852	17809
rejected events	11005	10638	11488	14270	14029
rejected %	35%	89%	88%	37%	78%

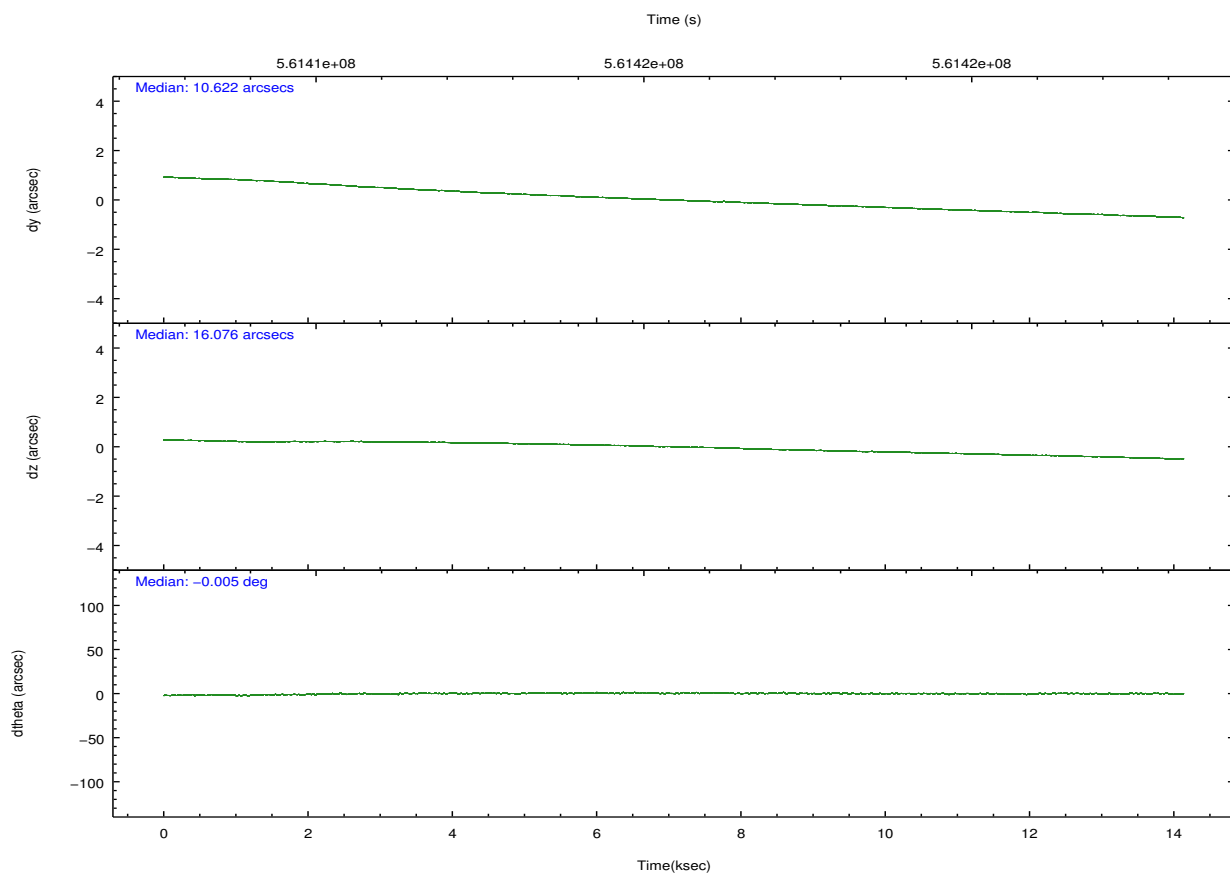
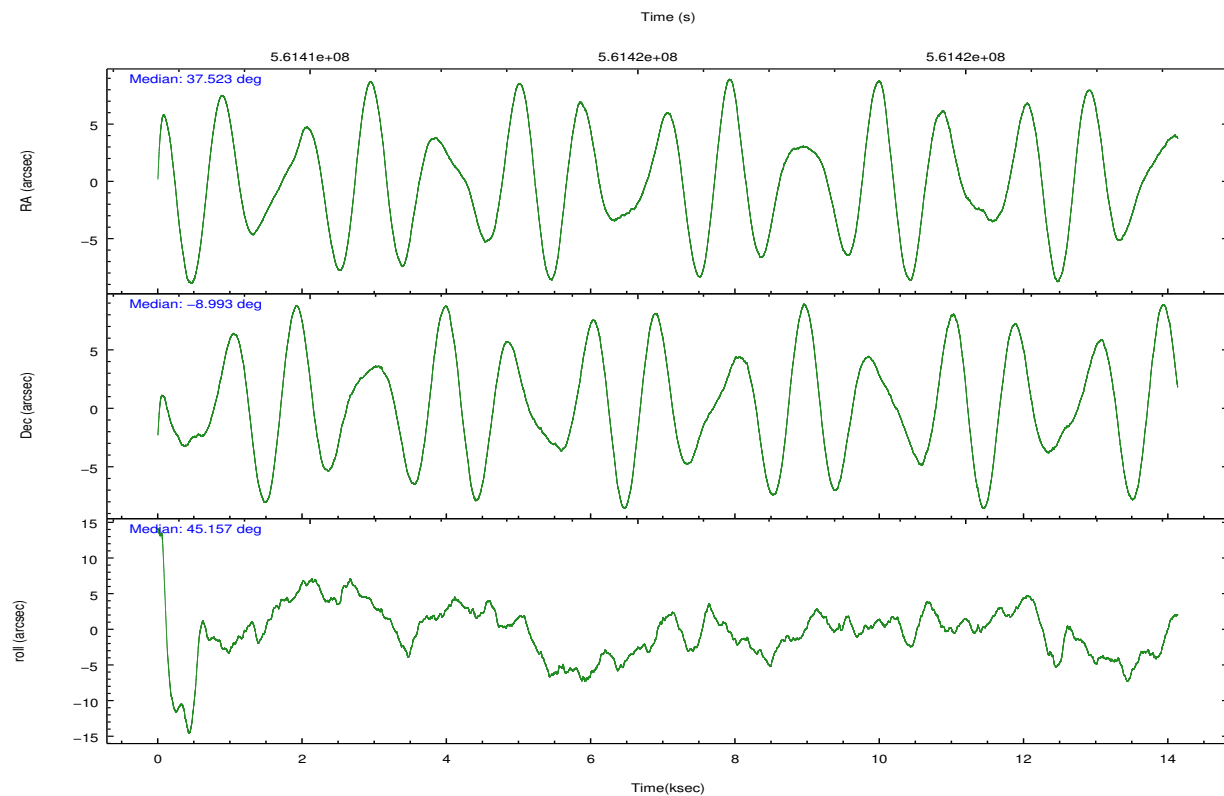
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	19120	320	368	4848	878
	61%	2%	2%	12%	4%
grade 1 events	38	2	2	511	14
	0%	0%	0%	1%	0%
grade 2 events	242	239	281	5160	757
	0%	2%	2%	13%	4%
grade 3 events	215	222	251	2373	430
	0%	1%	1%	6%	2%
grade 4 events	224	200	245	2380	440
	0%	1%	1%	6%	2%
grade 5 events	360	500	503	3423	705
	1%	4%	3%	9%	3%
grade 6 events	241	227	312	8824	1275
	0%	1%	2%	23%	7%
grade 7 events	10604	10135	10983	10333	13310
	34%	85%	84%	27%	74%

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	37.516716	37.52347655467916	CCD I2 on	O1	Y
[deg] Pointing Dec	-9.019321	-8.992688837693672	CCD I3 on	Y	Y
[deg] Pointing Roll	44.999033	45.15673111226866	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	Y	Y
[s] Observation start time (MET)	561408521.184000	561406841.54175	CCD S5 on	N	N
Observation start date	2015-10-16T18:47:33	2015-10-16T18:20:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	561422521.184000	561423558.2677	On-chip summing requested	N	N
Observation end date	2015-10-16T22:40:53	2015-10-16T22:59:18	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect



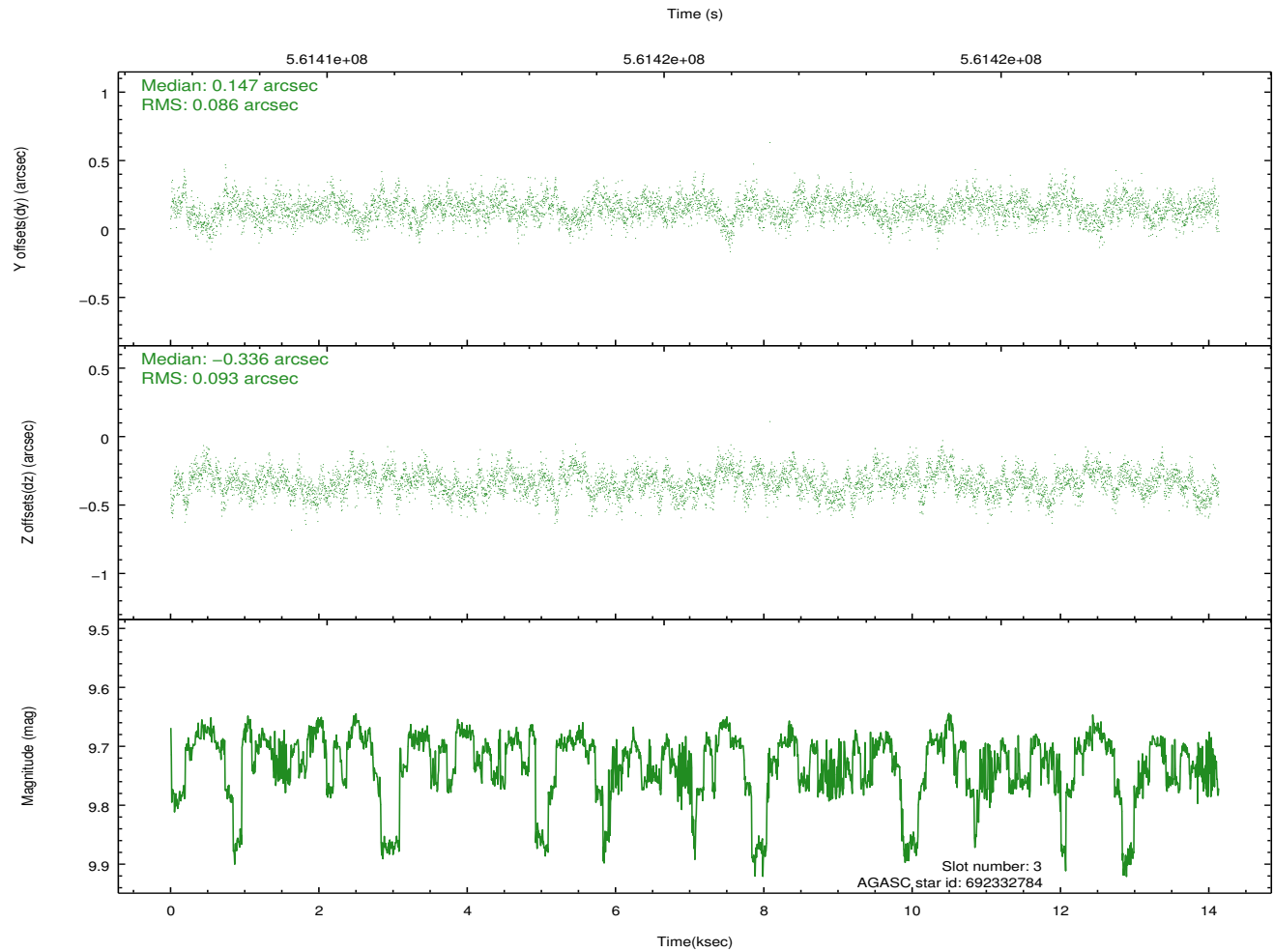
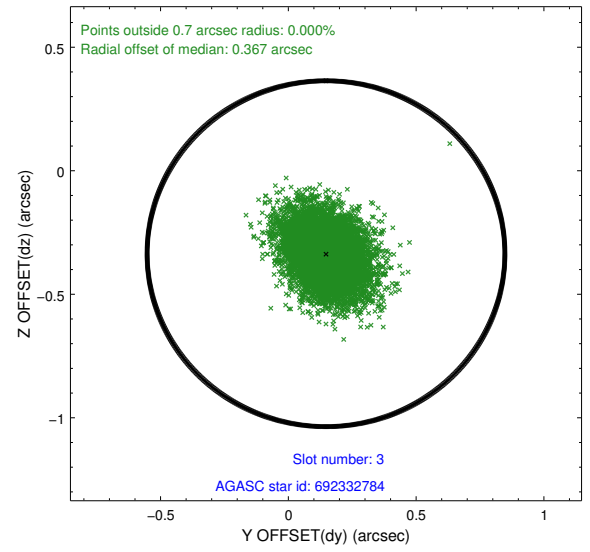
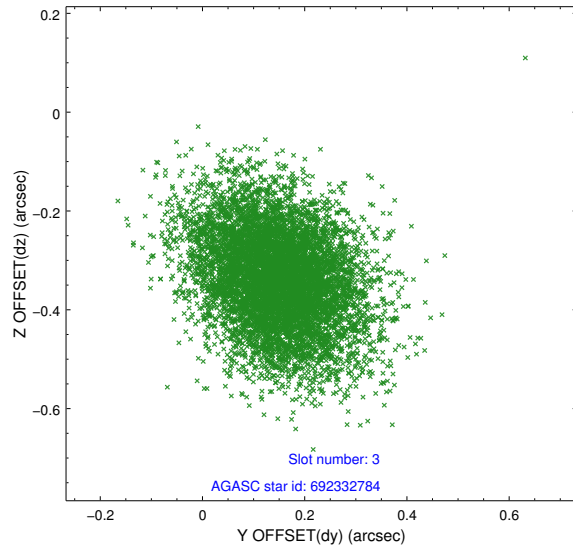


Slot Statistics

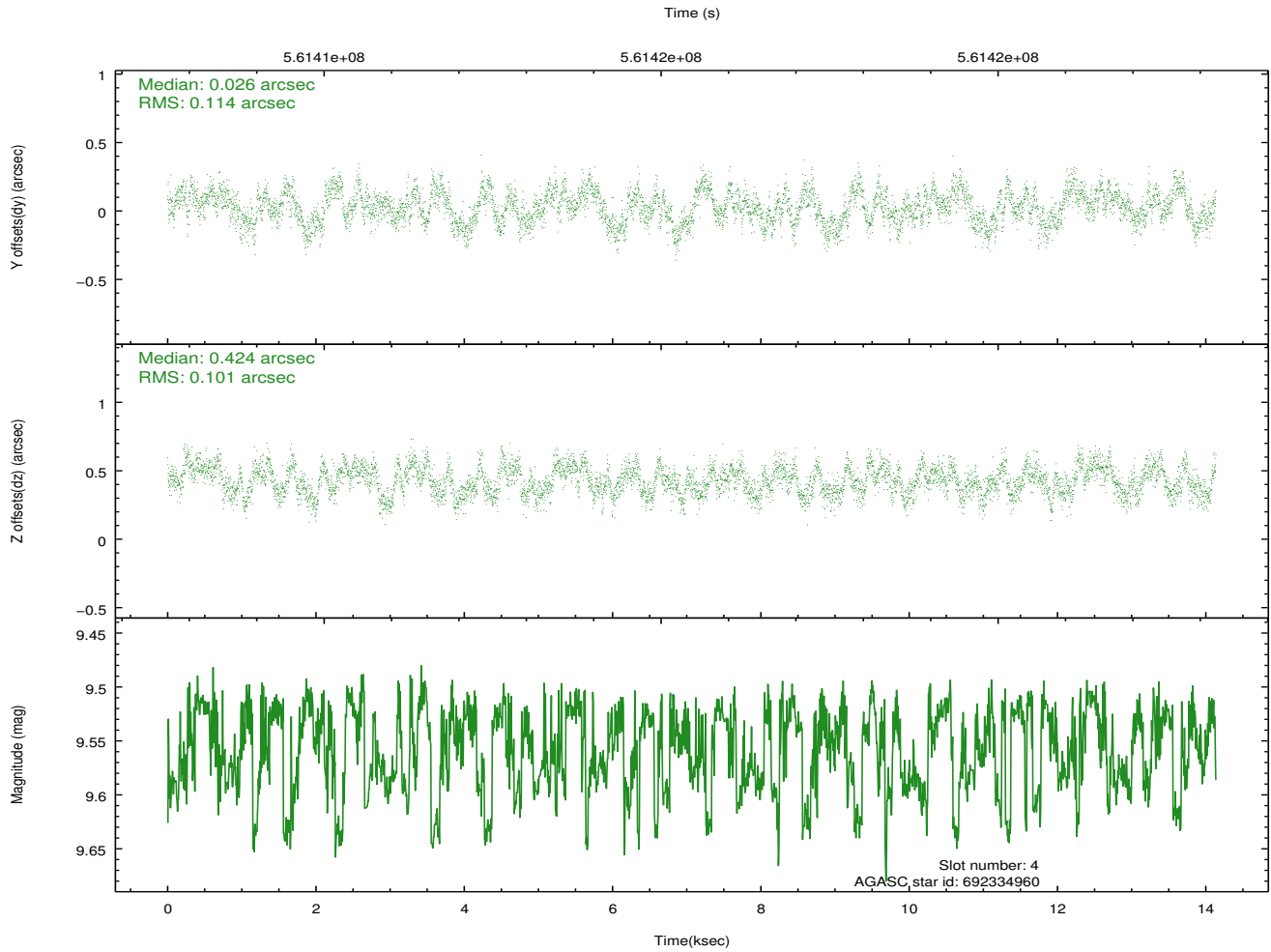
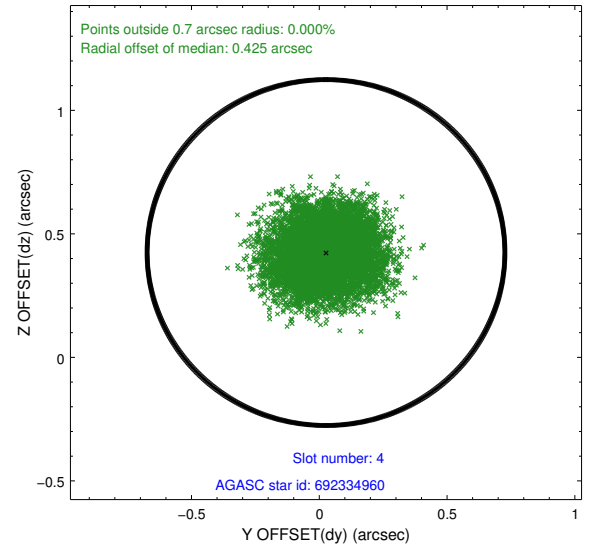
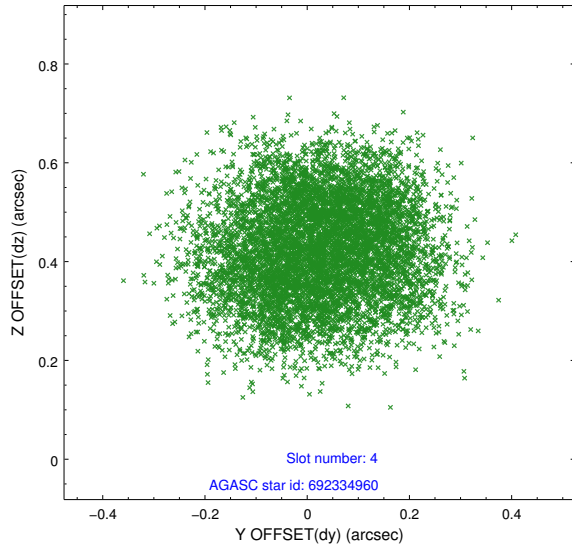
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.12	3448	-0.141	-0.056	0.014	0.021	0.000000	0.000000	-763.63	-1737.50
1	FID		ACIS-S-4	7.23	3448	0.351	0.082	0.009	0.019	0.000000	0.000000	2149.96	170.82
2	FID		ACIS-S-5	7.25	3448	-0.243	-0.018	0.013	0.020	0.000000	0.000000	-1816.18	164.72
3	GUIDE	used	692332784	9.72	6895	0.147	-0.336	0.135	0.224	37.078504	-9.403848	-2079.57	120.54
4	GUIDE	used	692334960	9.56	6893	0.026	0.424	0.167	0.249	38.103081	-8.961434	1618.90	-1327.72
5	GUIDE	used	692338128	8.22	6894	0.057	0.114	0.083	0.136	37.441699	-9.399268	-1154.74	-778.76
6	BAD	used	692716000	10.21	6604	-0.365	-0.265	0.244	0.382	38.344962	-9.004889	2115.42	-2048.63
7	GUIDE	used	692327352	9.10	6893	0.106	0.067	0.178	0.340	37.165312	-9.595949	-2349.30	-586.37

2.4 Star Slots

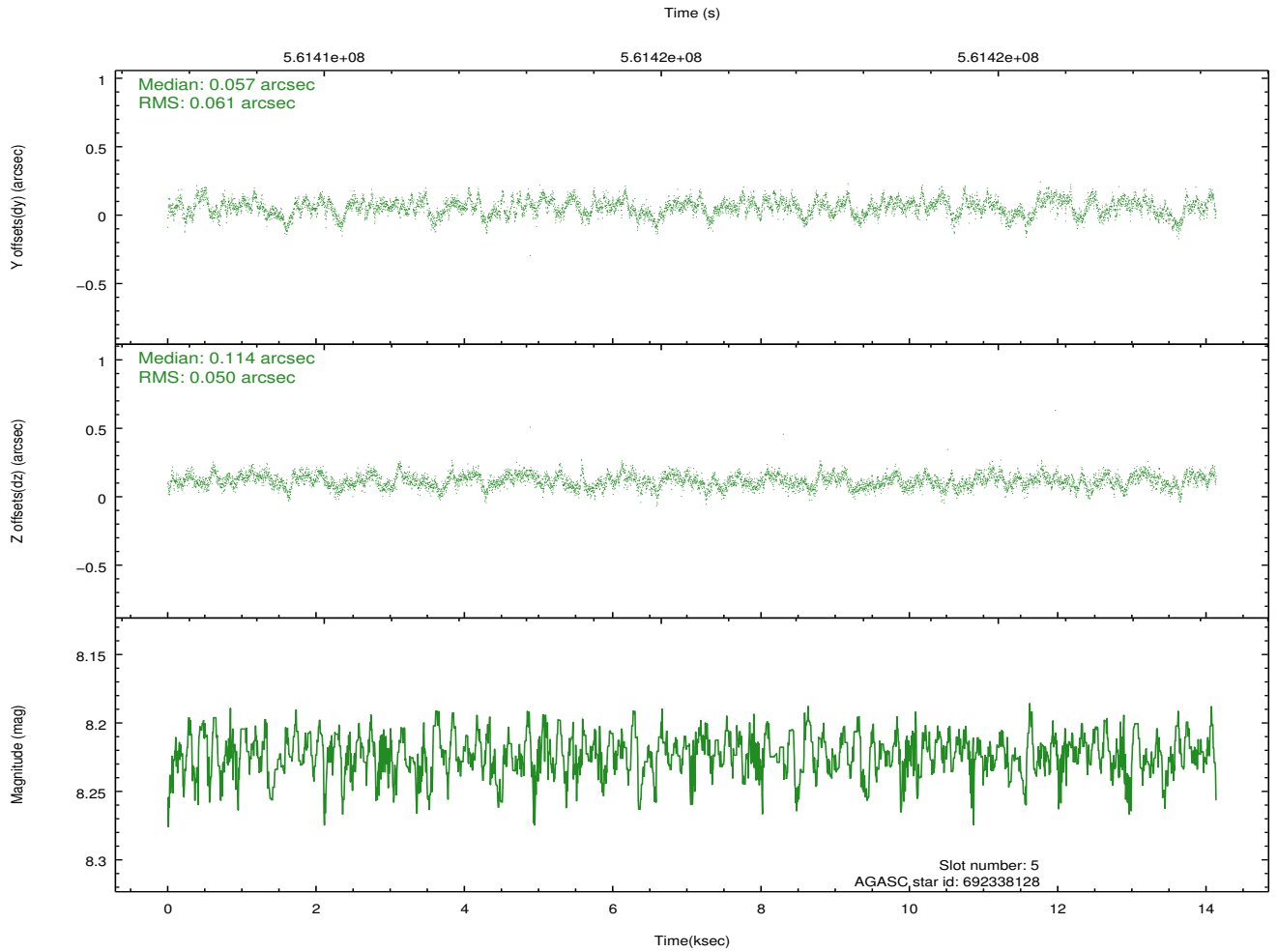
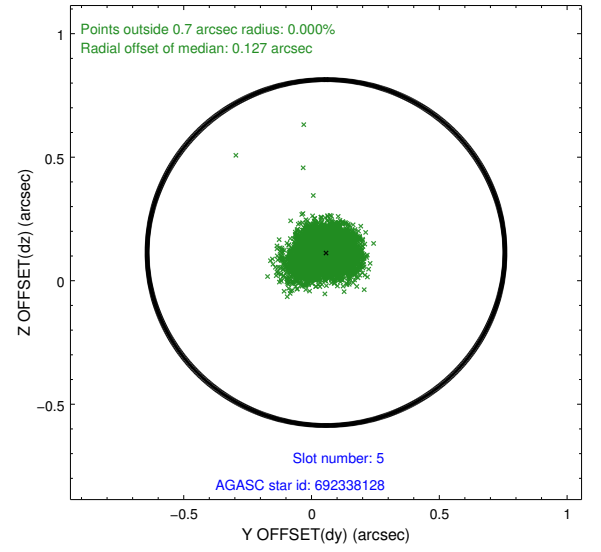
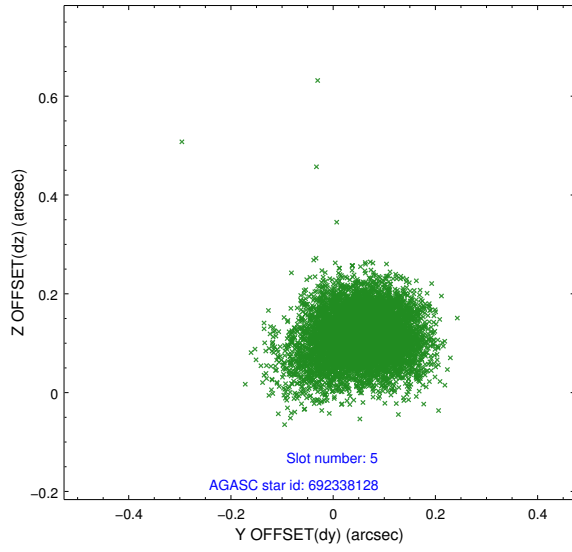
2.4.1 Slot 3



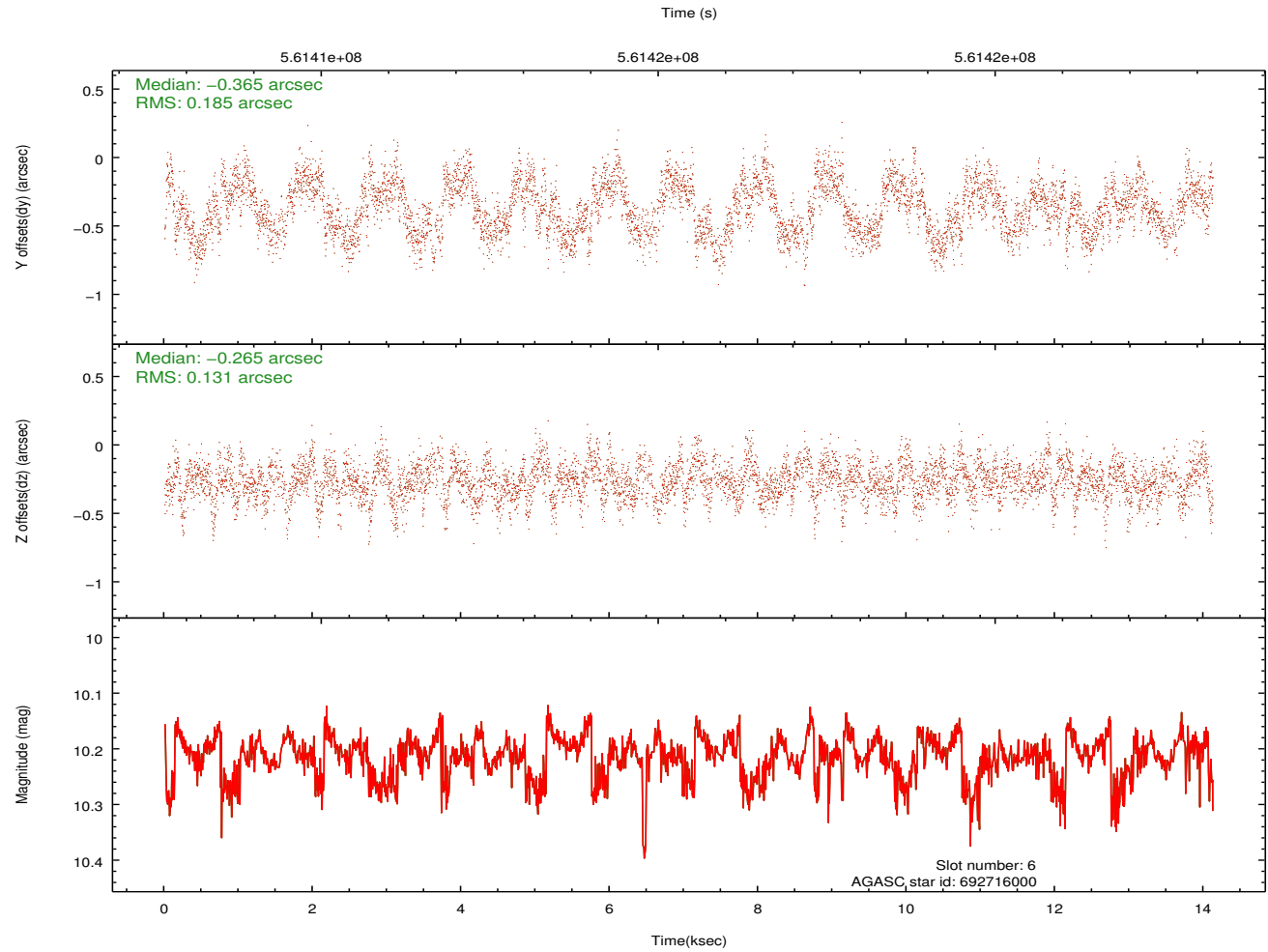
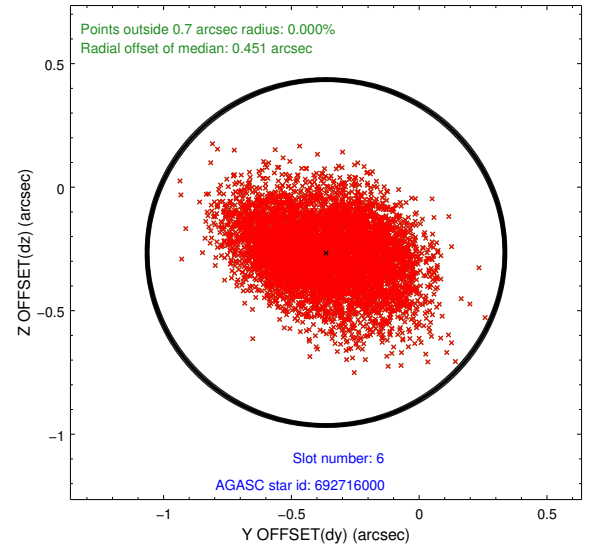
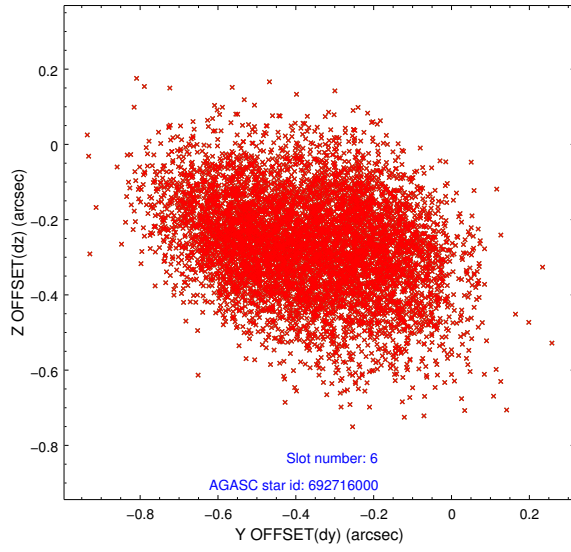
2.4.2 Slot 4



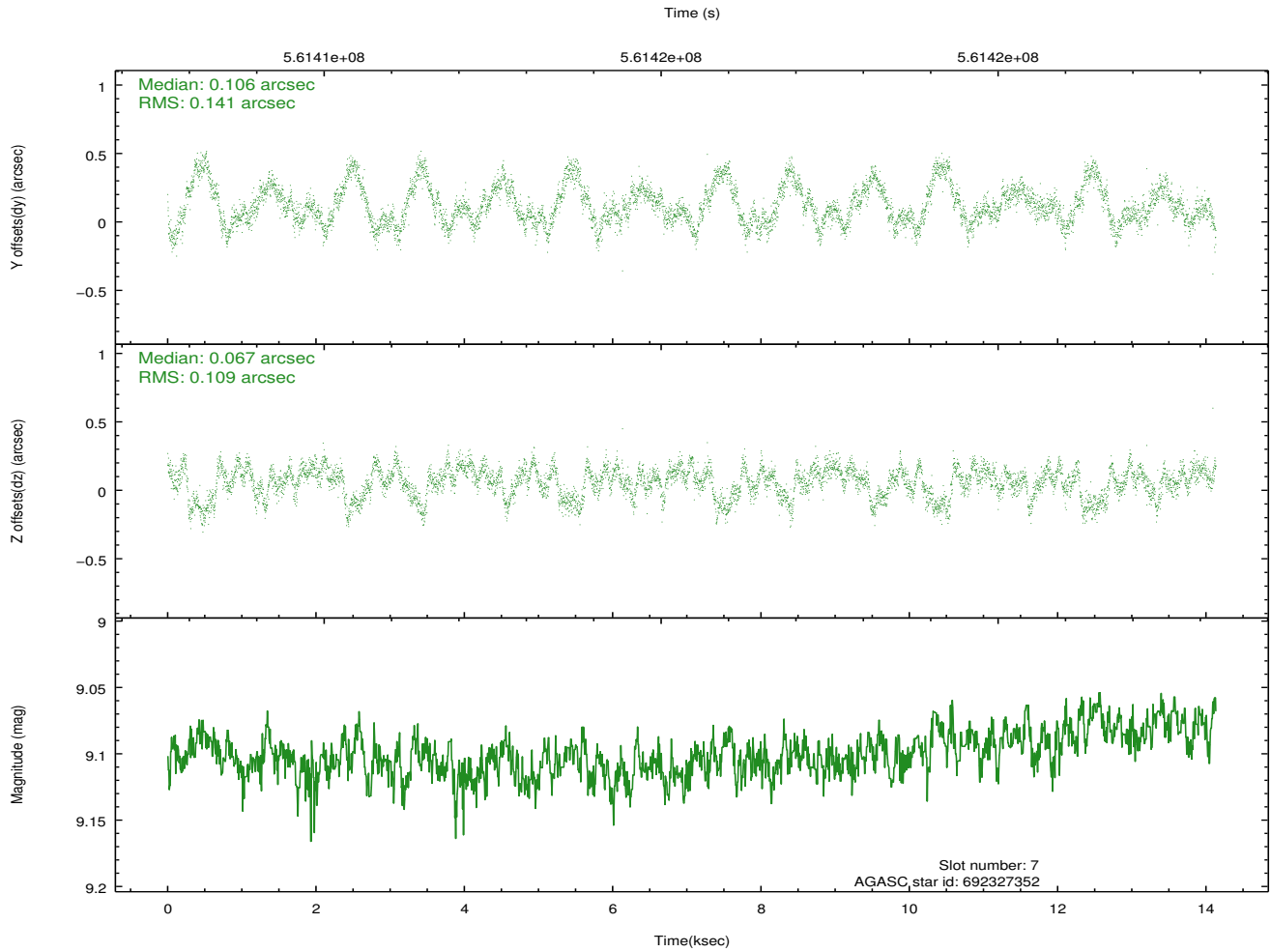
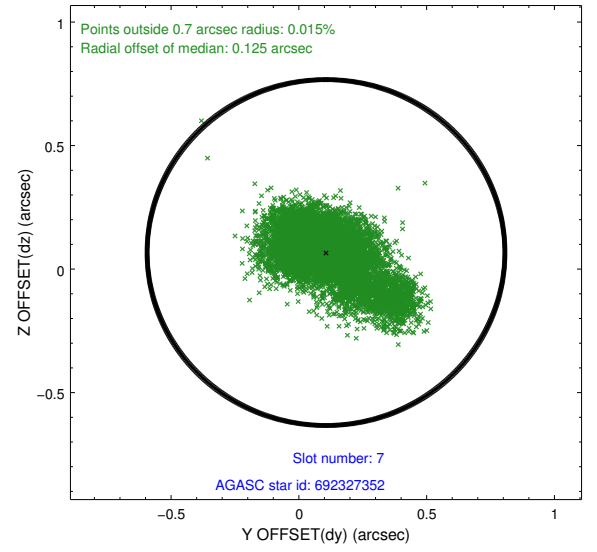
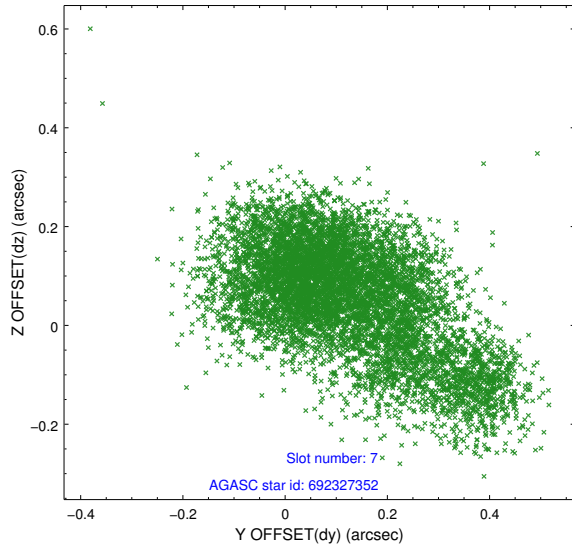
2.4.3 Slot 5



2.4.4 Slot 6

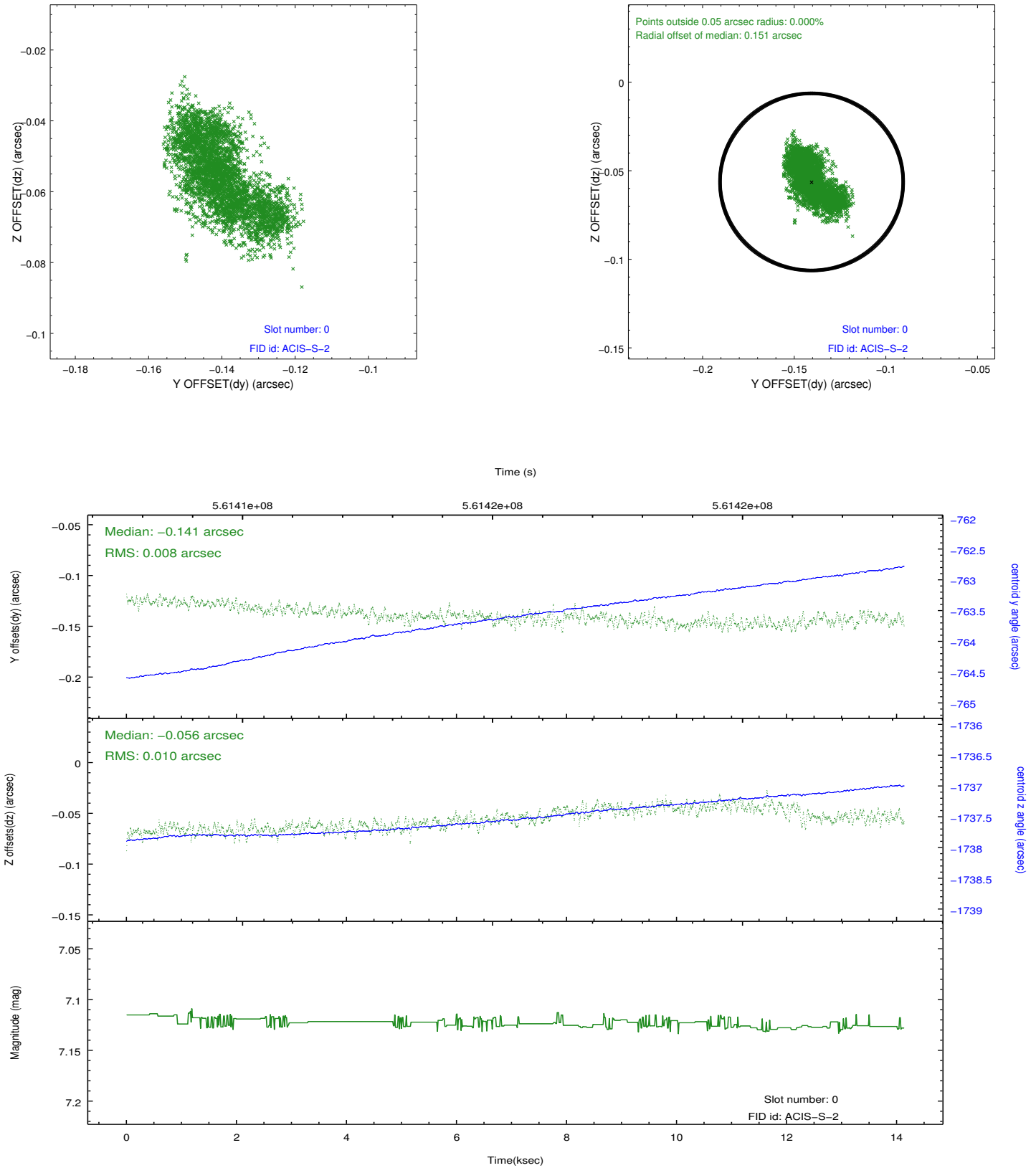


2.4.5 Slot 7

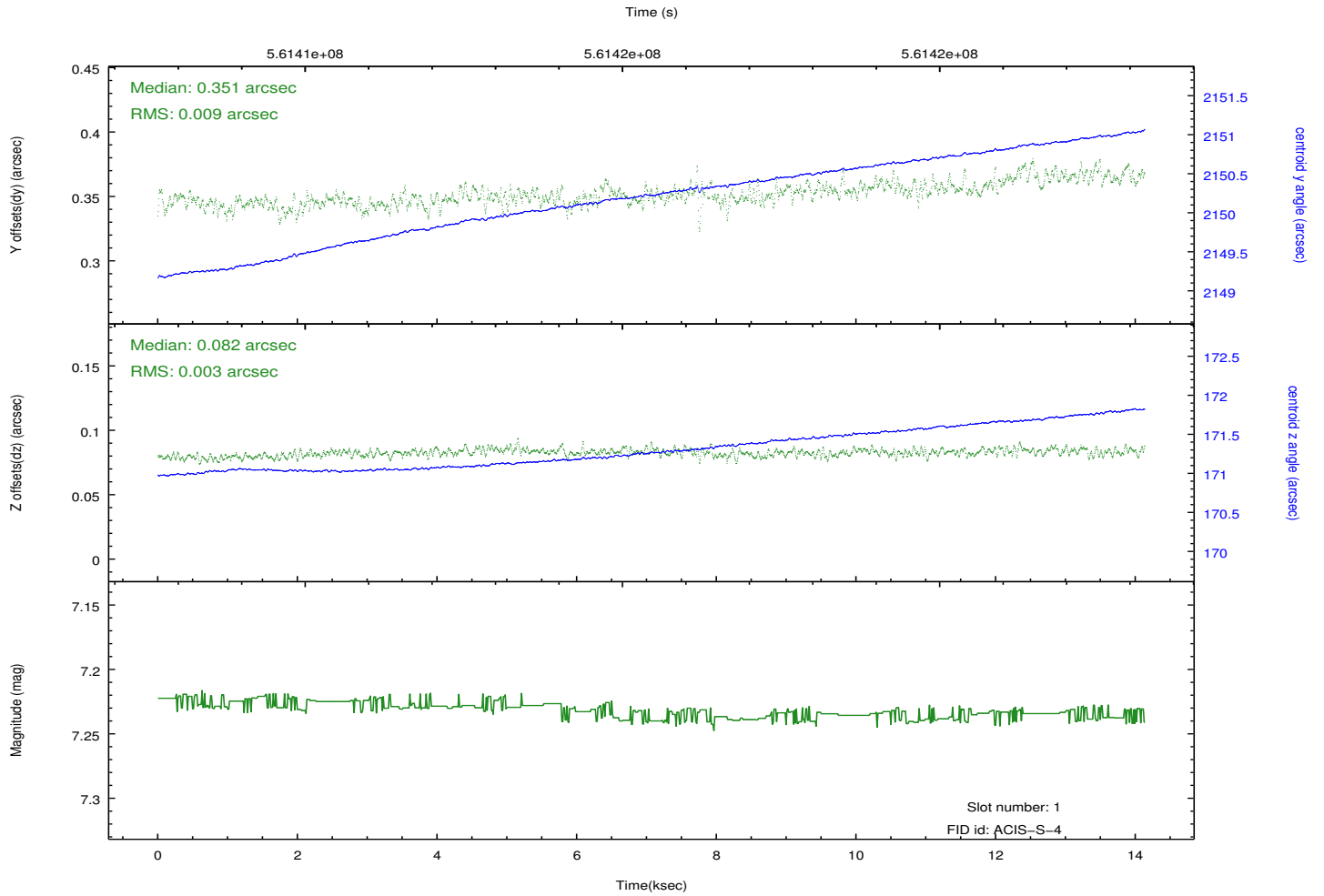
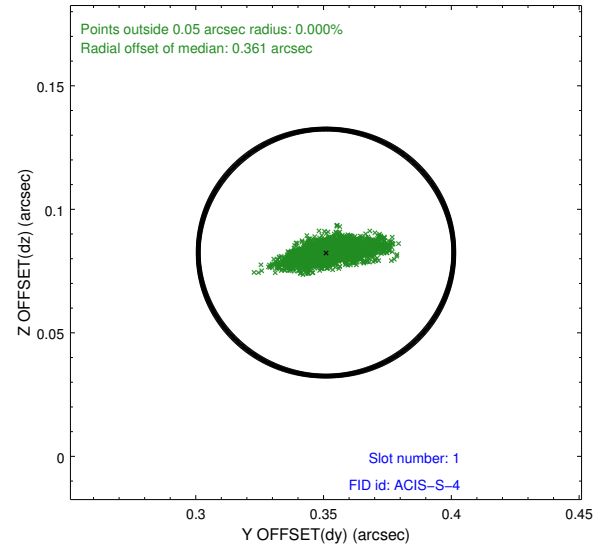
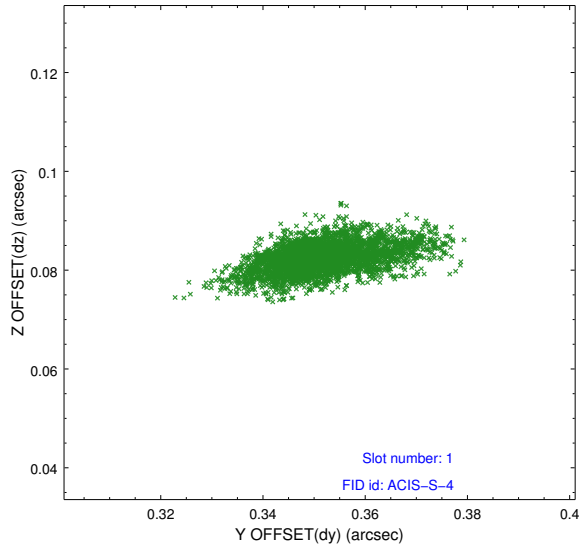


2.5 FID Slots

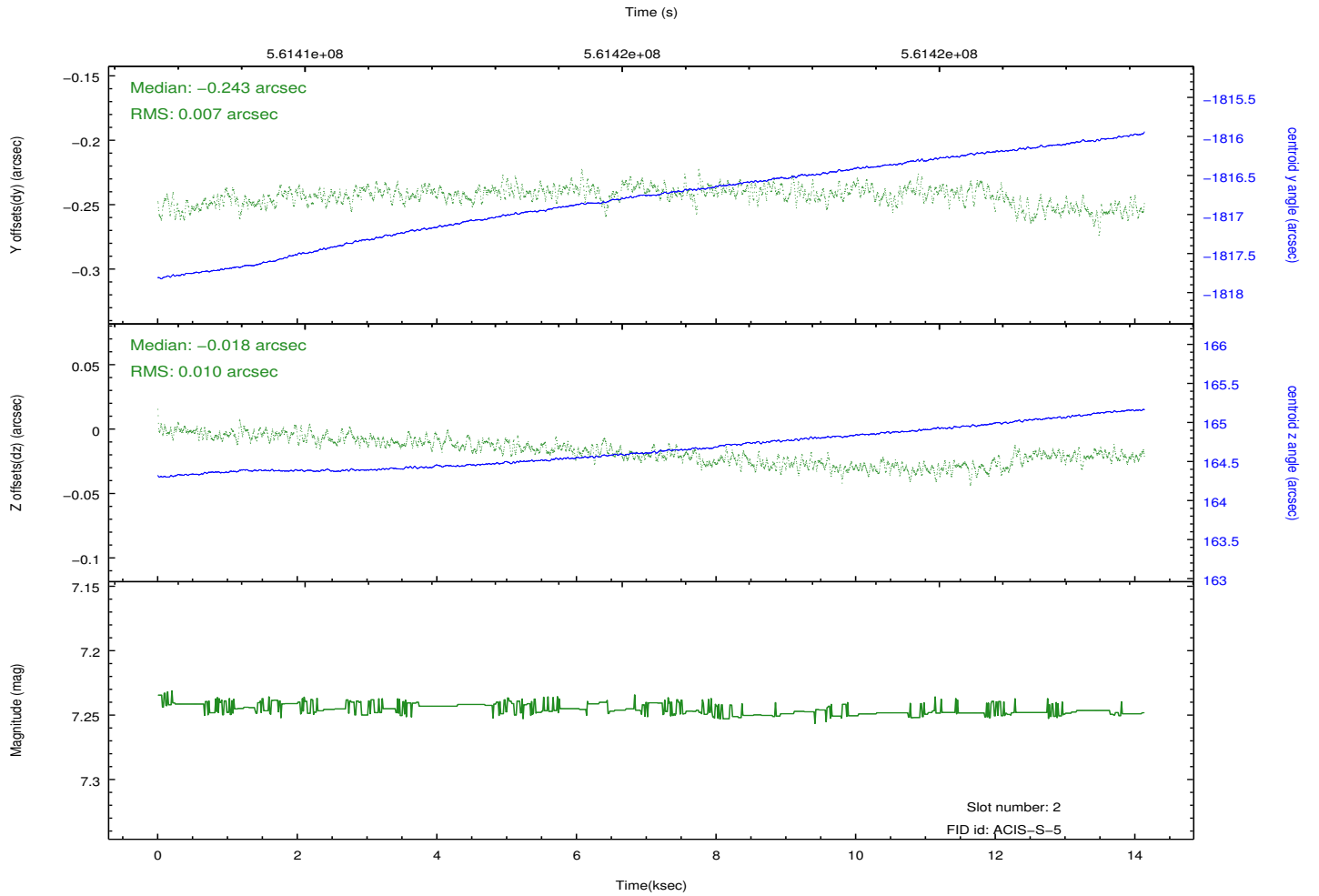
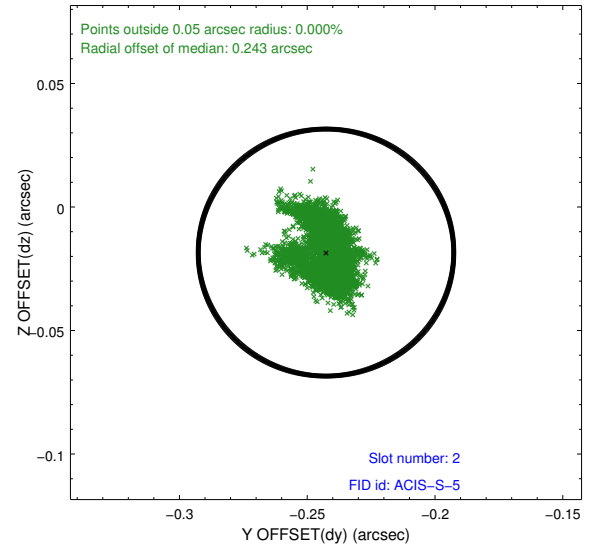
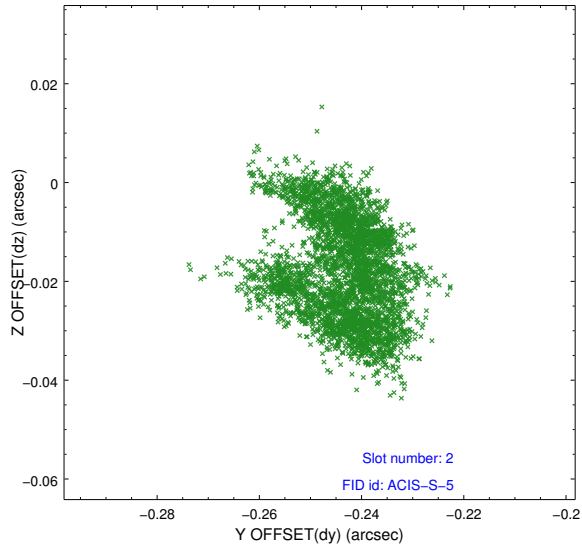
2.5.1 Slot 0



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)	2015.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.0679009583

A.2 Comments