

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17425 - L2 Version 1
Chandra X-Ray Center

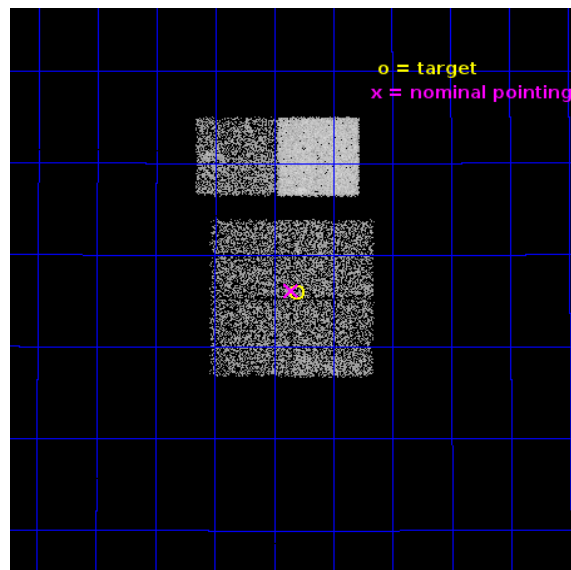
L2 Processing Date : Nov 2 2015

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

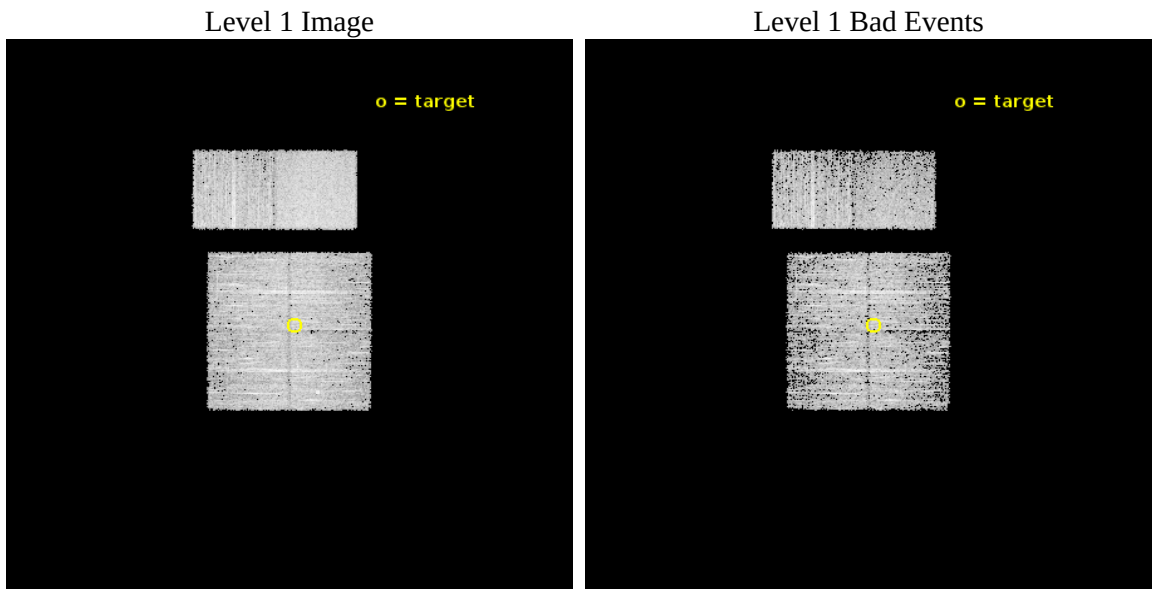
seq_num	901172	Sequence number
obs_id	17425	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.326667	Observer's specified target RA [deg]
dec_targ	34.431944	Observer's specified target Dec [deg]
ra_nom	217.33809827097	Nominal RA [deg]
dec_nom	34.435260979947	Nominal Dec [deg]
roll_nom	0.20219638688996	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6003.2000894547	Sum of GTIs [s]
livetime	5927.1839552289	Livetime [s]
ontime0	6003.2000894547	Sum of GTIs [s]
ontime1	6003.2000894547	Sum of GTIs [s]
ontime2	6003.2000894547	Sum of GTIs [s]
ontime3	6003.2000894547	Sum of GTIs [s]
ontime6	6003.2000894547	Sum of GTIs [s]
ontime7	6003.2000894547	Sum of GTIs [s]
l2events	34674	Number of level 2 events



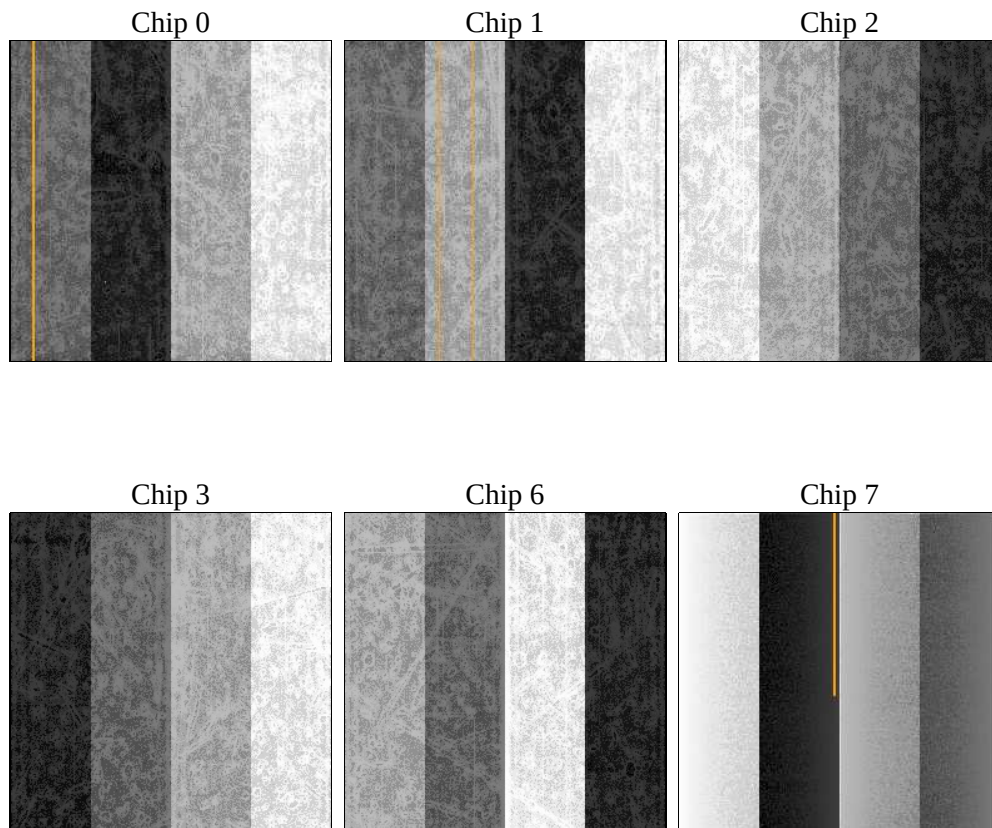
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6003.2000894547	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6003.2000894547	Sum of GTIs [s]
date	2015-11-02T18:59:51	Date and time of file creation	ontime1	6003.2000894547	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6003.2000894547	Sum of GTIs [s]
			ontime3	6003.2000894547	Sum of GTIs [s]
			ontime6	6003.2000894547	Sum of GTIs [s]
			ontime7	6003.2000894547	Sum of GTIs [s]
			l1events	202207	Number of level 1 events

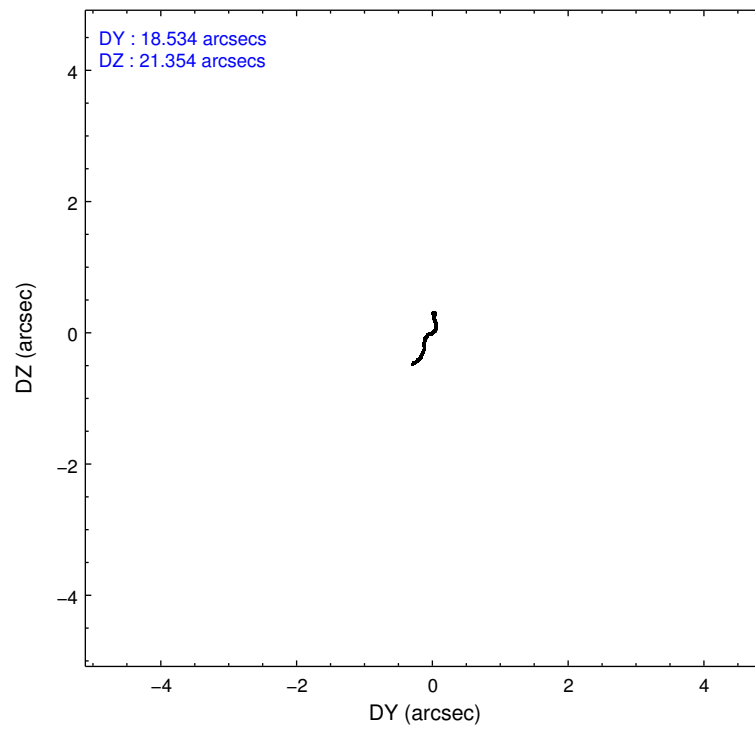
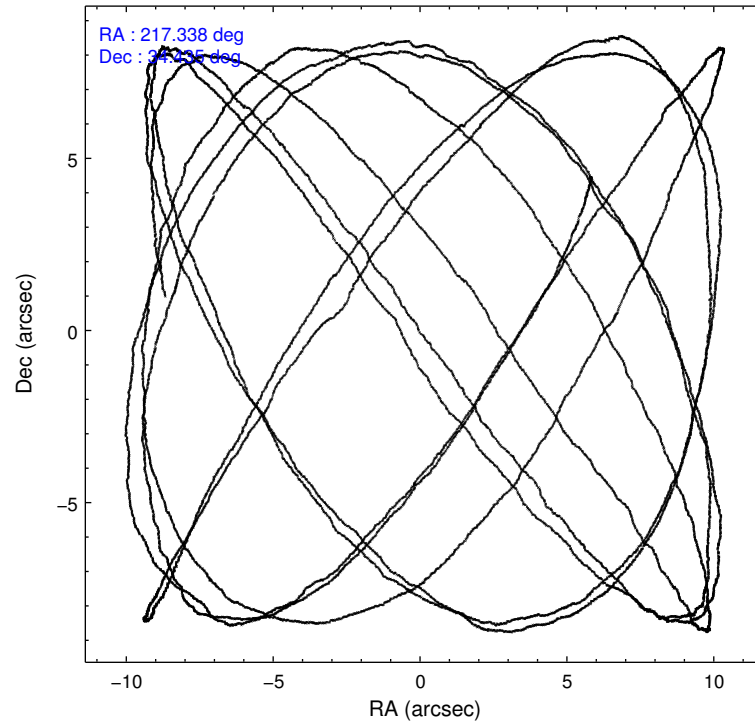
2.1.4 Events

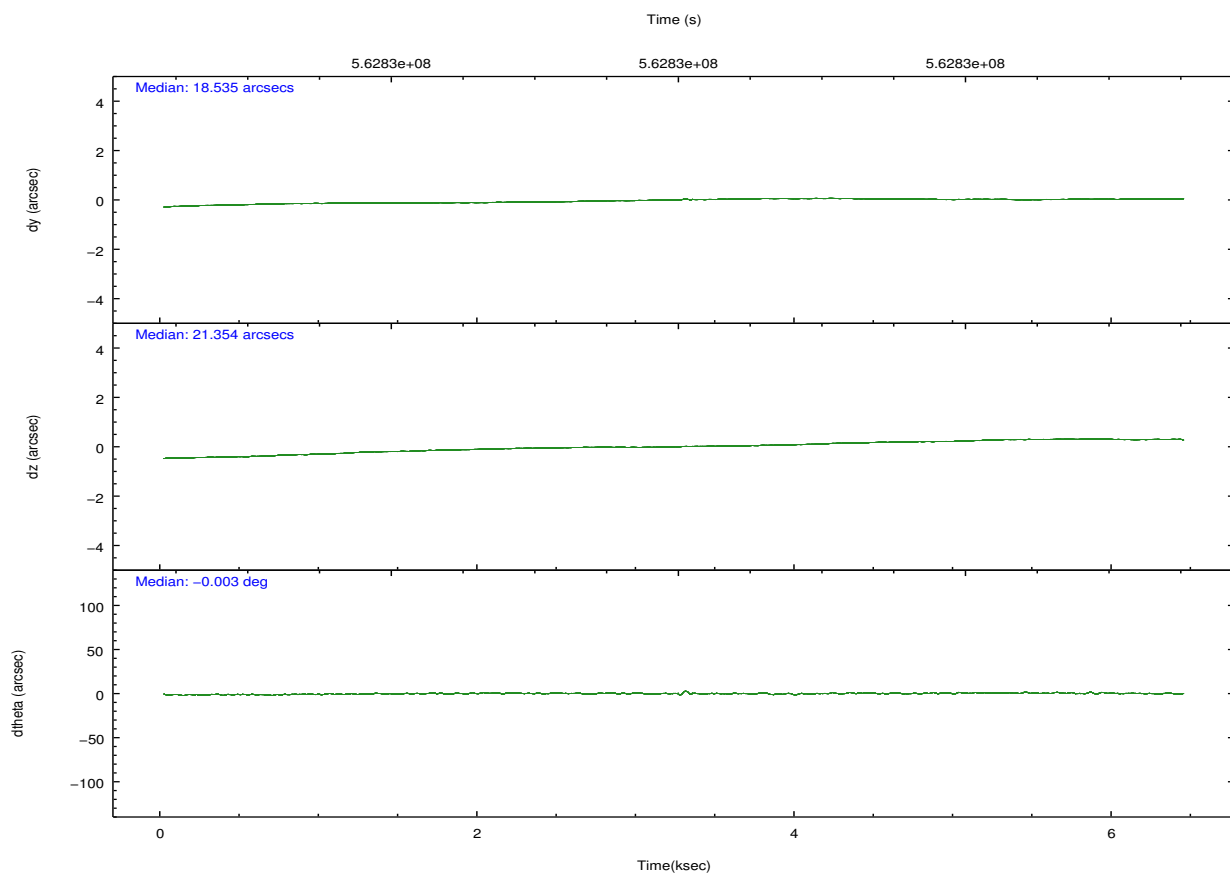
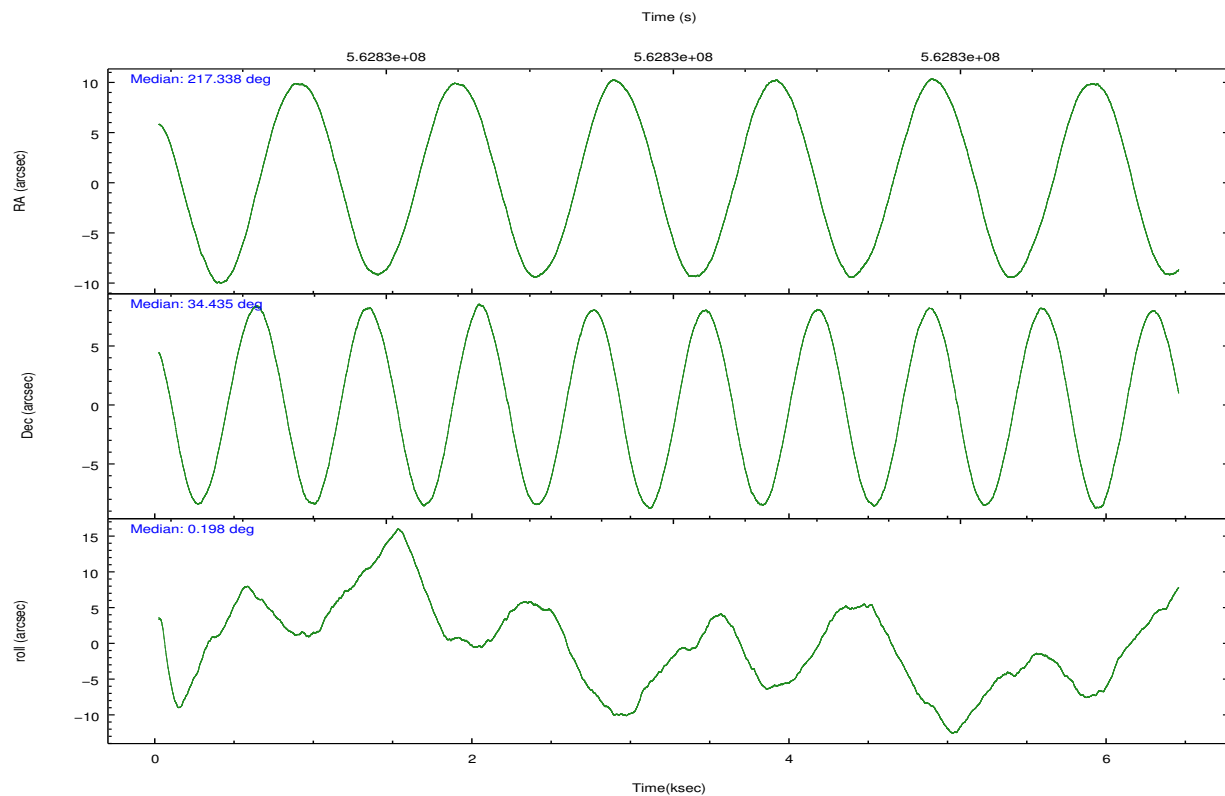
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30118	29512	33536	31574	33806	43661	grade 0 events	1317	1613	1254	1310	1368	1607
rejected events	26261	25137	29890	28002	29727	24752		4%	5%	3%	4%	4%	3%
rejected %	87%	85%	89%	88%	87%	56%	grade 1 events	10	16	23	23	16	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	953	1004	934	810	980	3987
								3%	3%	2%	2%	2%	9%
							grade 3 events	429	424	350	373	405	1570
								1%	1%	1%	1%	1%	3%
							grade 4 events	376	408	388	367	391	1561
								1%	1%	1%	1%	1%	3%
							grade 5 events	1465	1579	1469	1655	1712	4431
								4%	5%	4%	5%	5%	10%
							grade 6 events	791	928	725	715	939	10201
								2%	3%	2%	2%	2%	23%
							grade 7 events	24777	23540	28393	26321	27995	20240
								82%	79%	84%	83%	82%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	217.309296	217.3380982709678	CCD I2 on	Y	Y
[deg] Pointing Dec	34.421275	34.43526097994671	CCD I3 on	Y	Y
[deg] Pointing Roll	0.009822	0.2021963868899585	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	562828943.184000	562828567.87216	CCD S5 on	N	N
Observation start date	2015-11-02T05:21:15	2015-11-02T05:16:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	562835193.184000	562835327.74754	On-chip summing requested	N	N
Observation end date	2015-11-02T07:05:25	2015-11-02T07:08:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



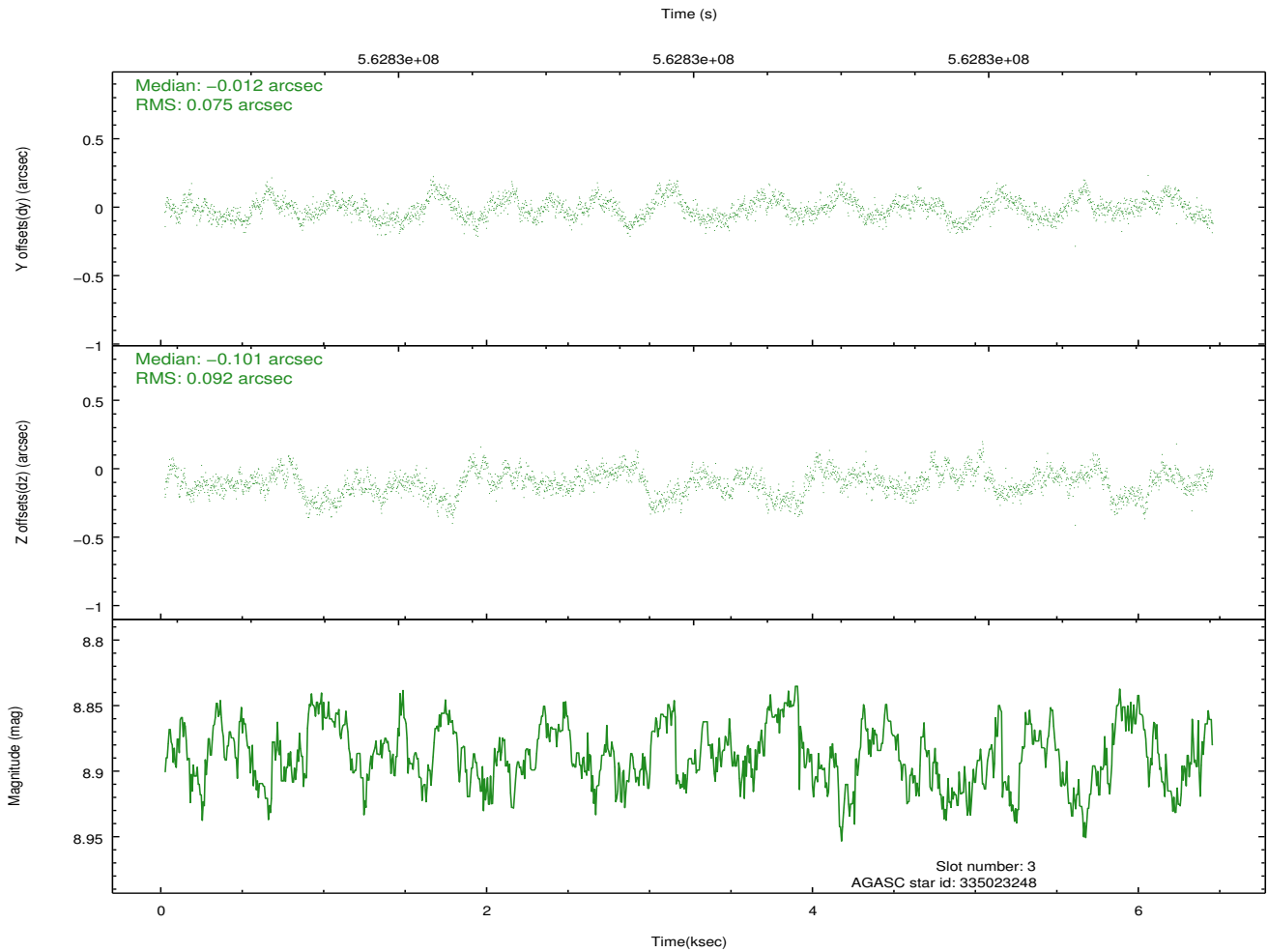
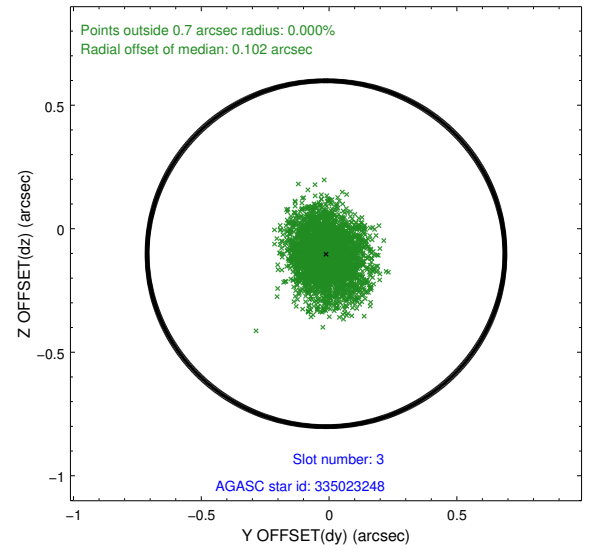
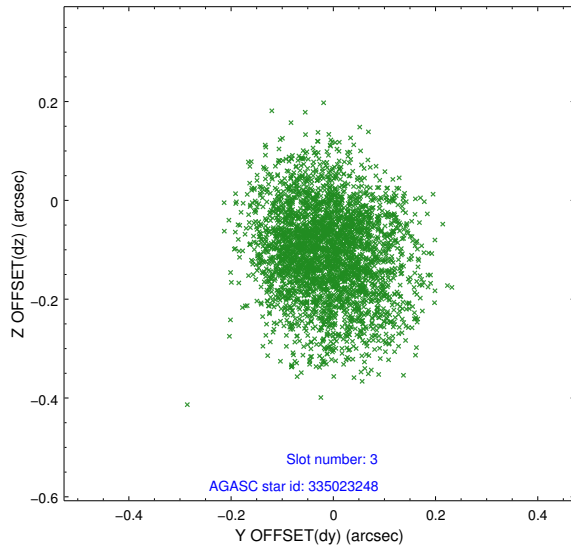


Slot Statistics

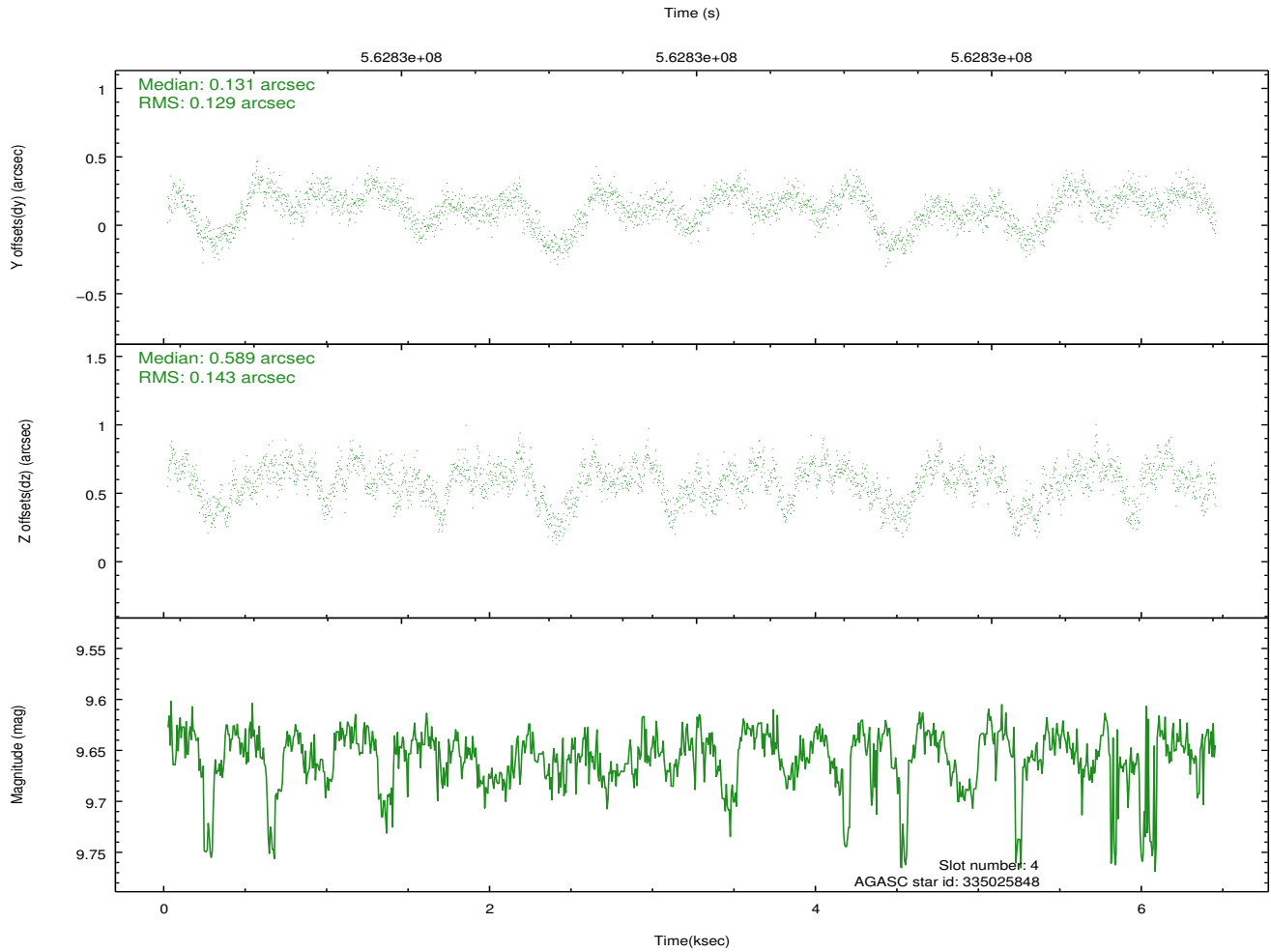
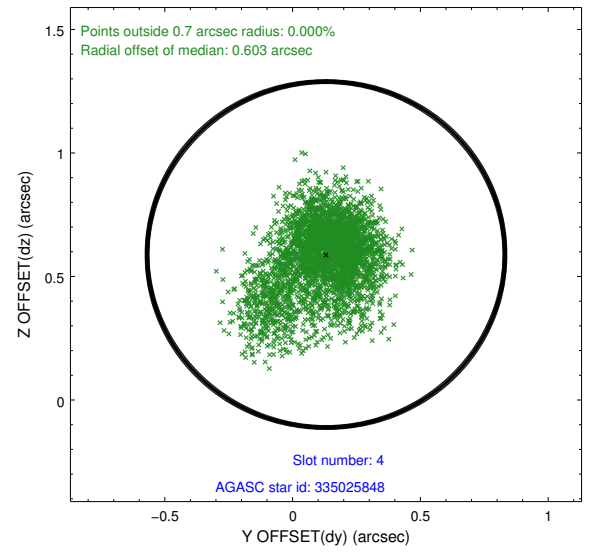
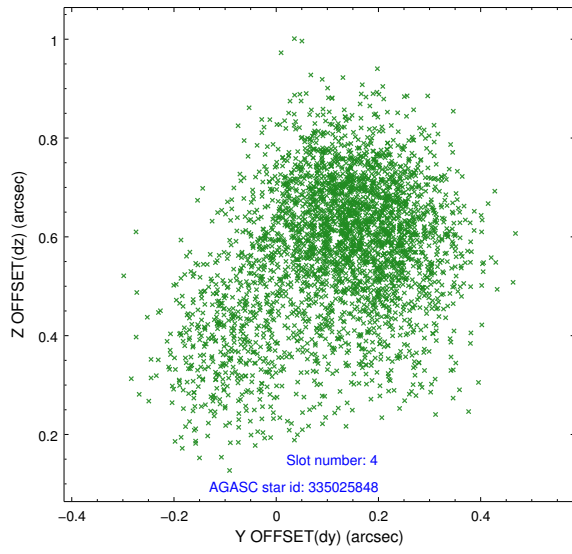
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	1569	0.109	-0.089	0.008	0.014	0.000000	0.000000	921.00	-845.19
1	FID		ACIS-I-5	7.24	1569	-0.375	0.058	0.008	0.014	0.000000	0.000000	-1827.14	1051.93
2	FID		ACIS-I-6	7.25	1569	0.174	0.102	0.011	0.018	0.000000	0.000000	385.56	1697.56
3	GUIDE	used	335023248	8.89	3133	-0.012	-0.101	0.126	0.203	217.634832	34.944512	961.11	1885.38
4	GUIDE	used	335025848	9.65	3139	0.131	0.589	0.194	0.354	217.530531	33.778292	662.53	-2312.55
5	GUIDE	used	335028696	9.20	3135	-0.332	0.267	0.123	0.206	217.260519	33.844112	-145.88	-2077.84
6	GUIDE	used	335030384	8.80	3139	0.511	-0.106	0.098	0.159	216.806407	34.722197	-1487.19	1086.76
7	GUIDE	used	335417968	9.36	3138	-0.284	-0.639	0.240	0.368	217.358149	35.055285	143.69	2282.54

2.4 Star Slots

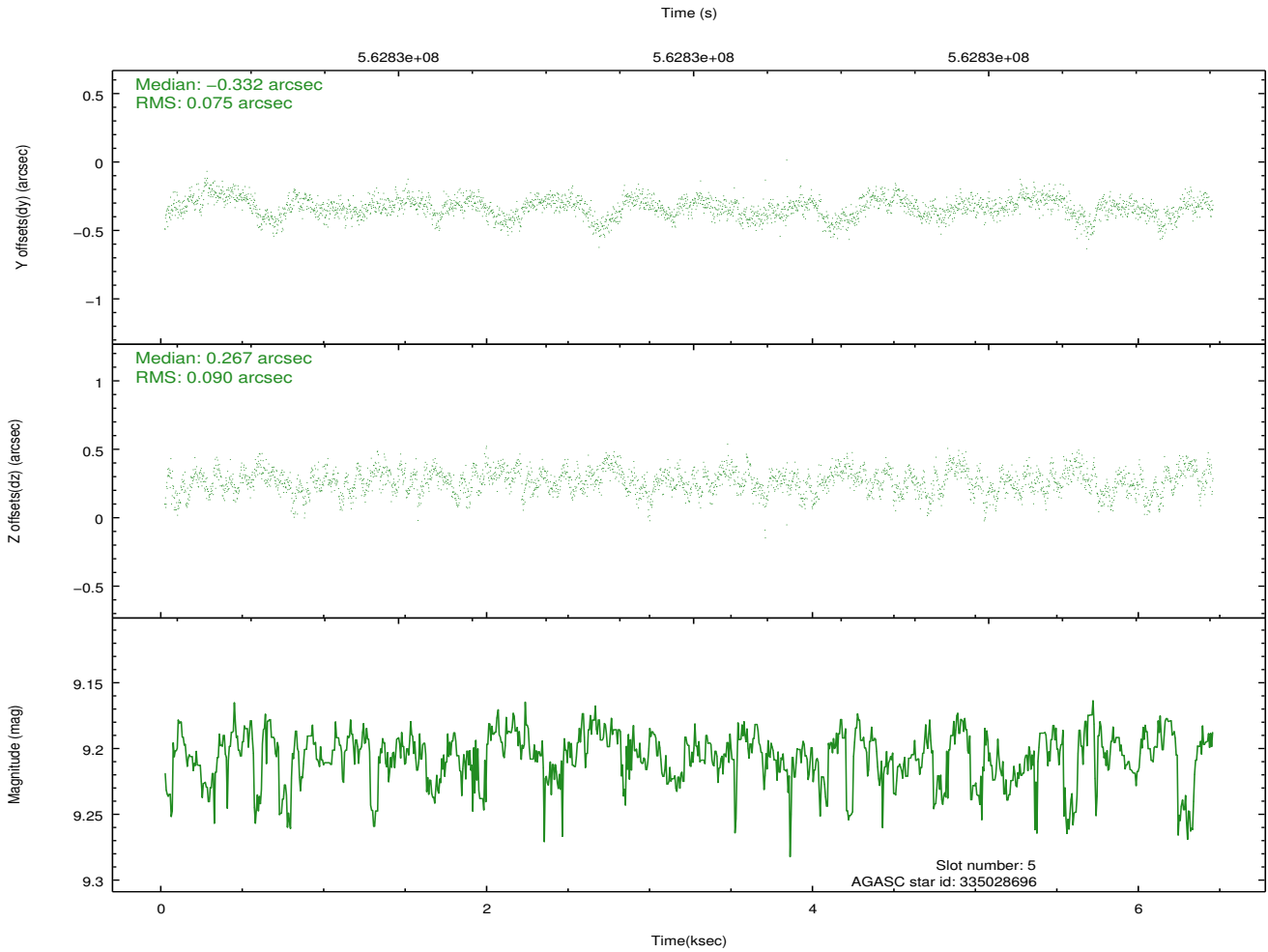
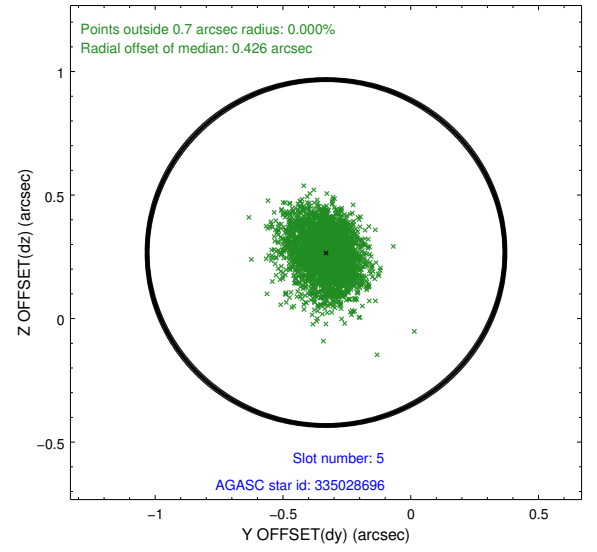
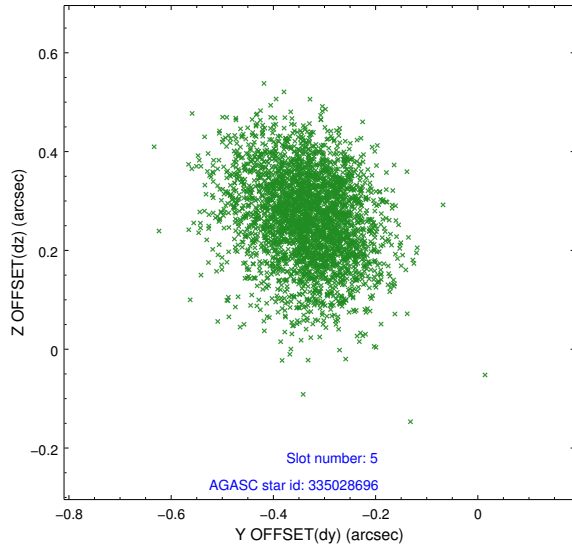
2.4.1 Slot 3



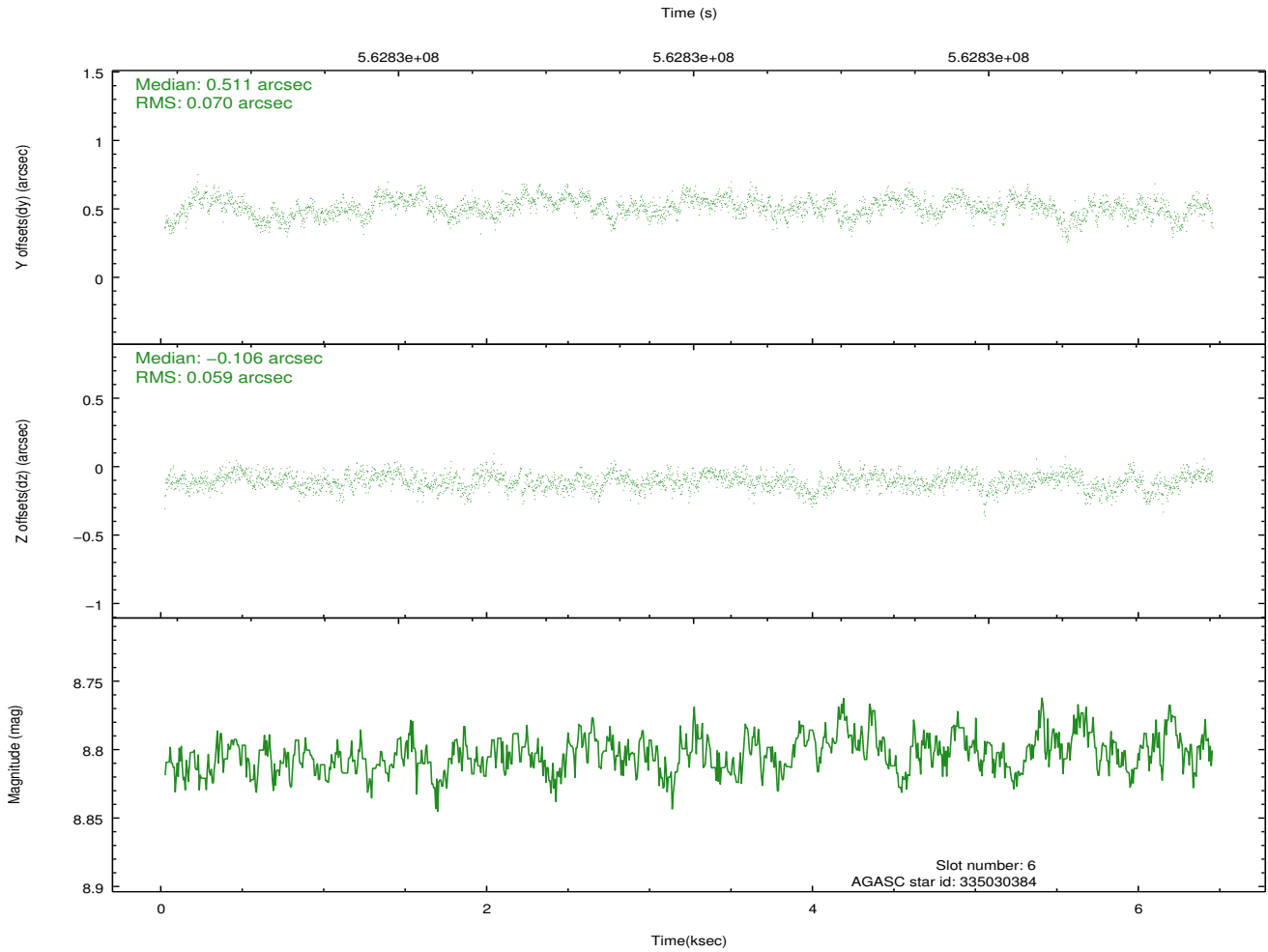
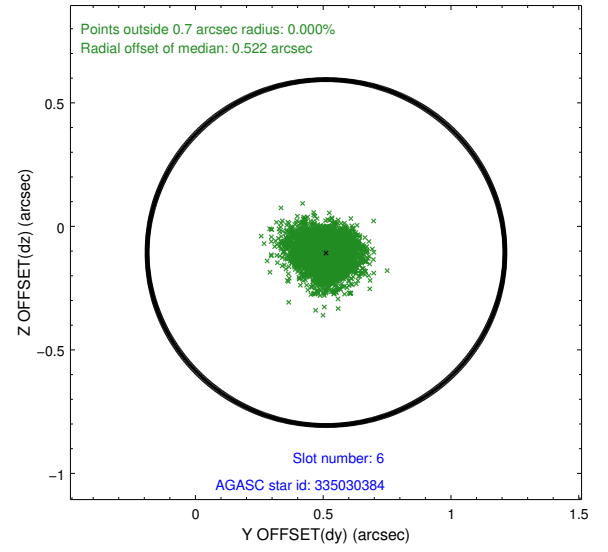
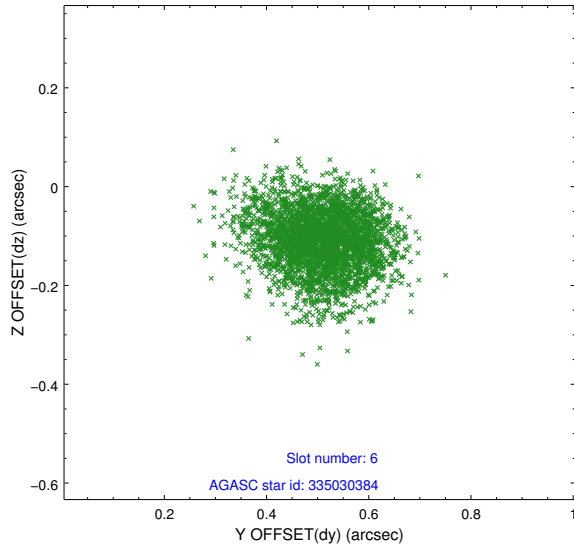
2.4.2 Slot 4



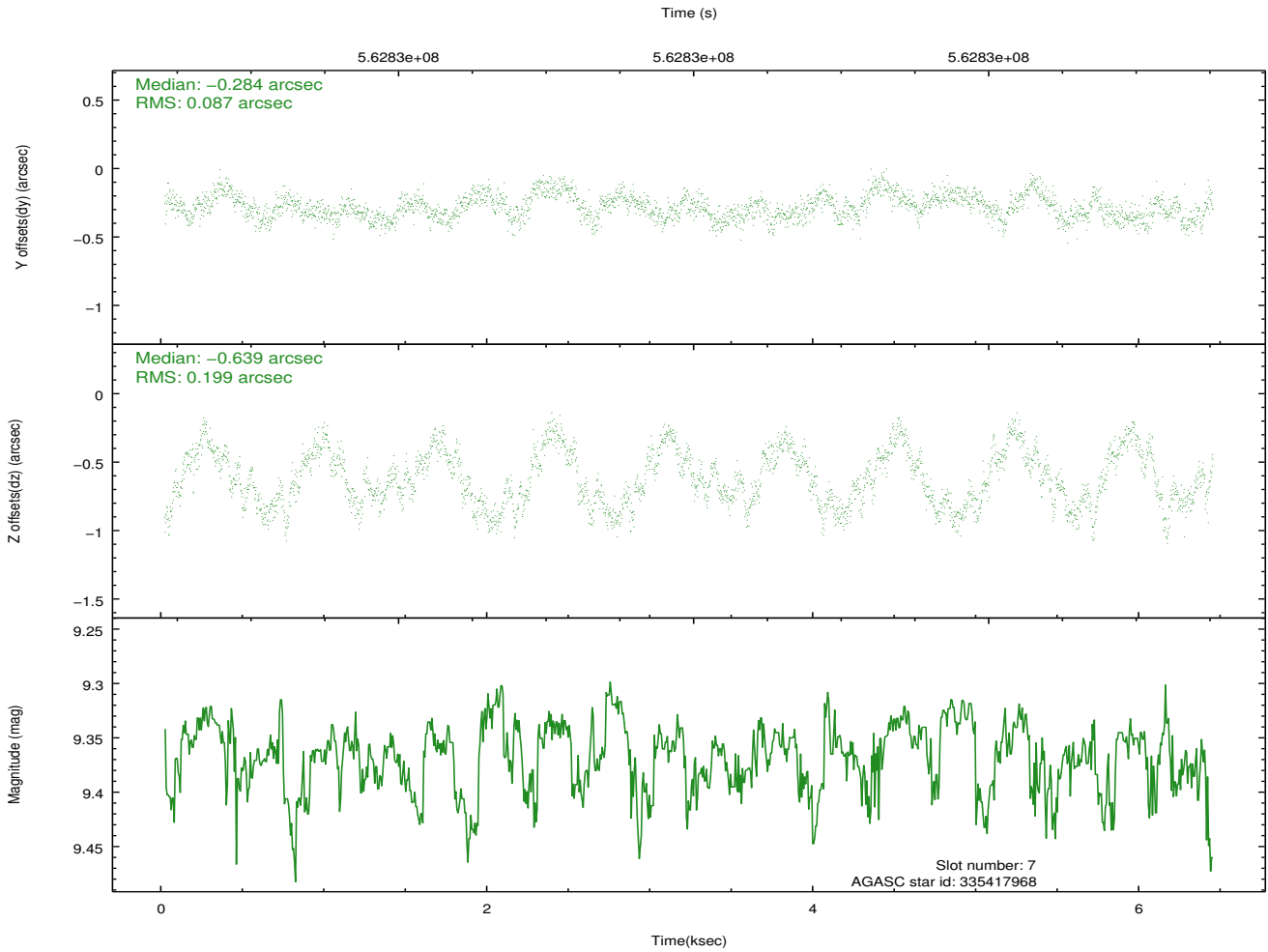
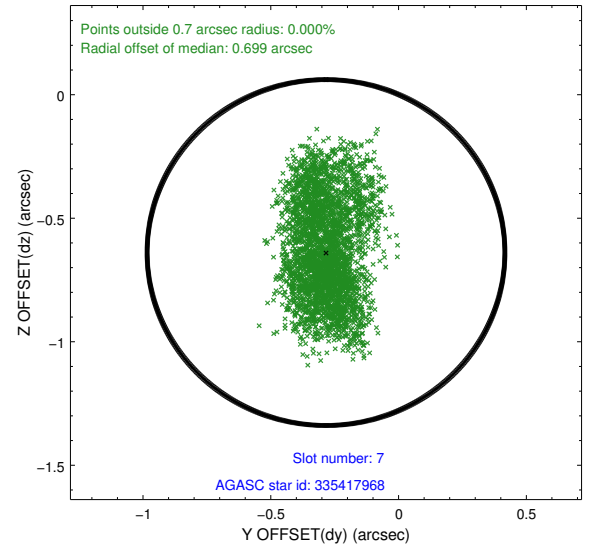
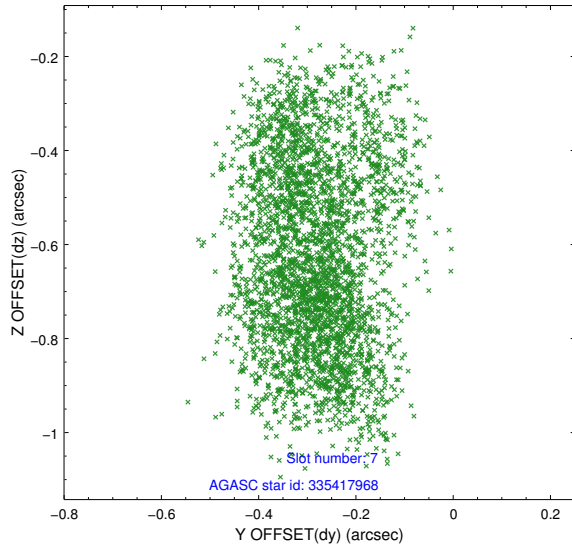
2.4.3 Slot 5



2.4.4 Slot 6

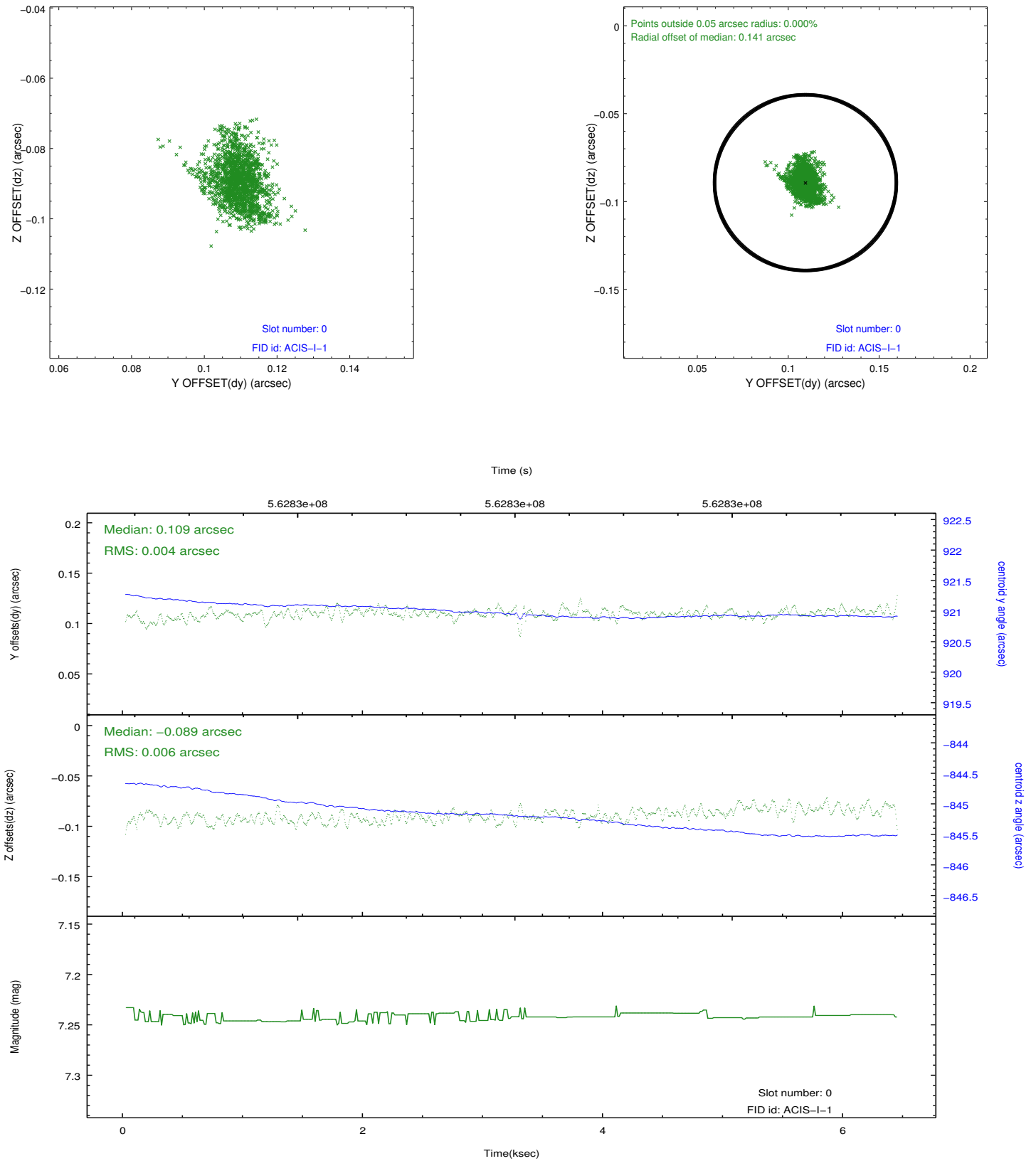


2.4.5 Slot 7

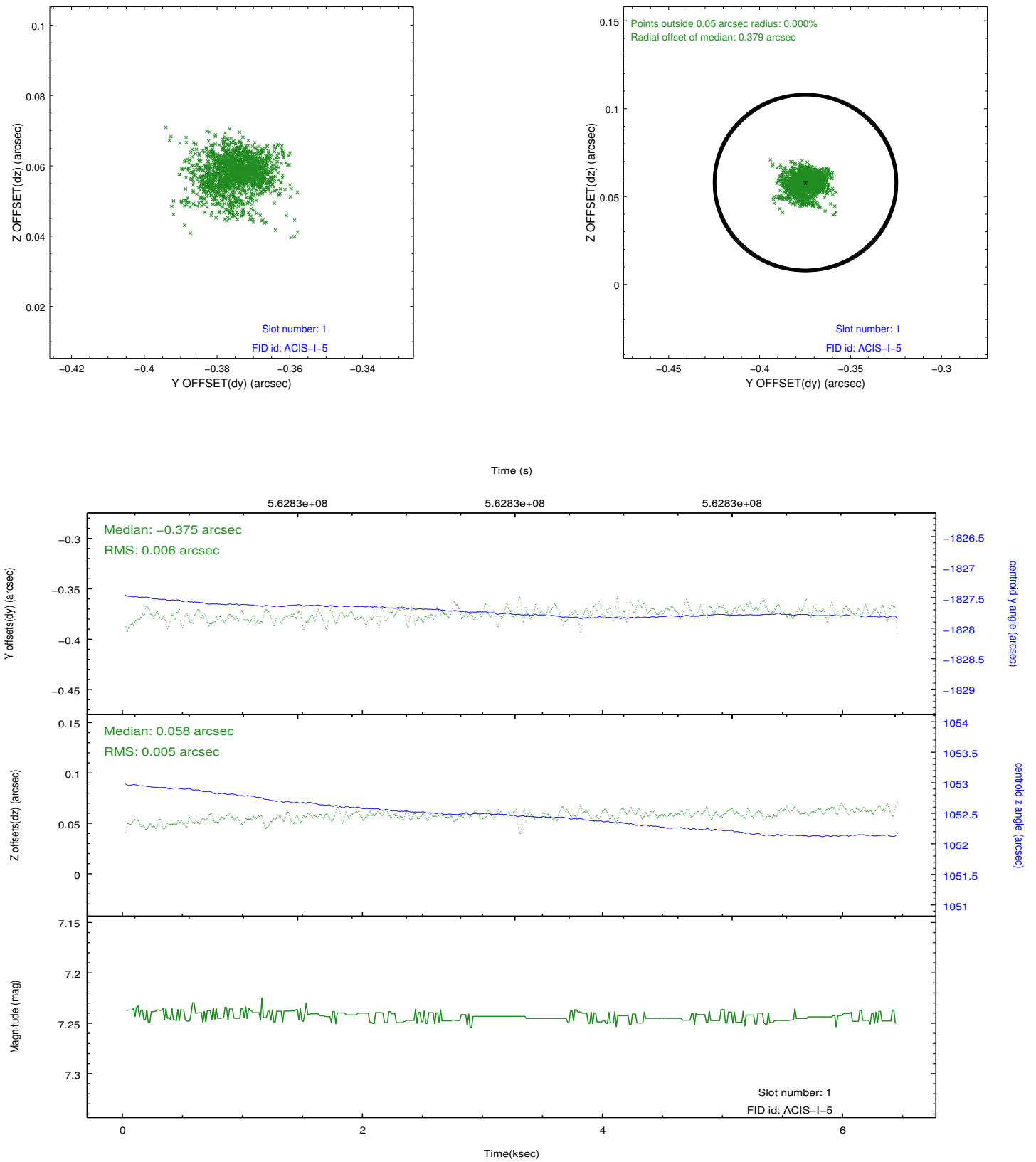


2.5 FID Slots

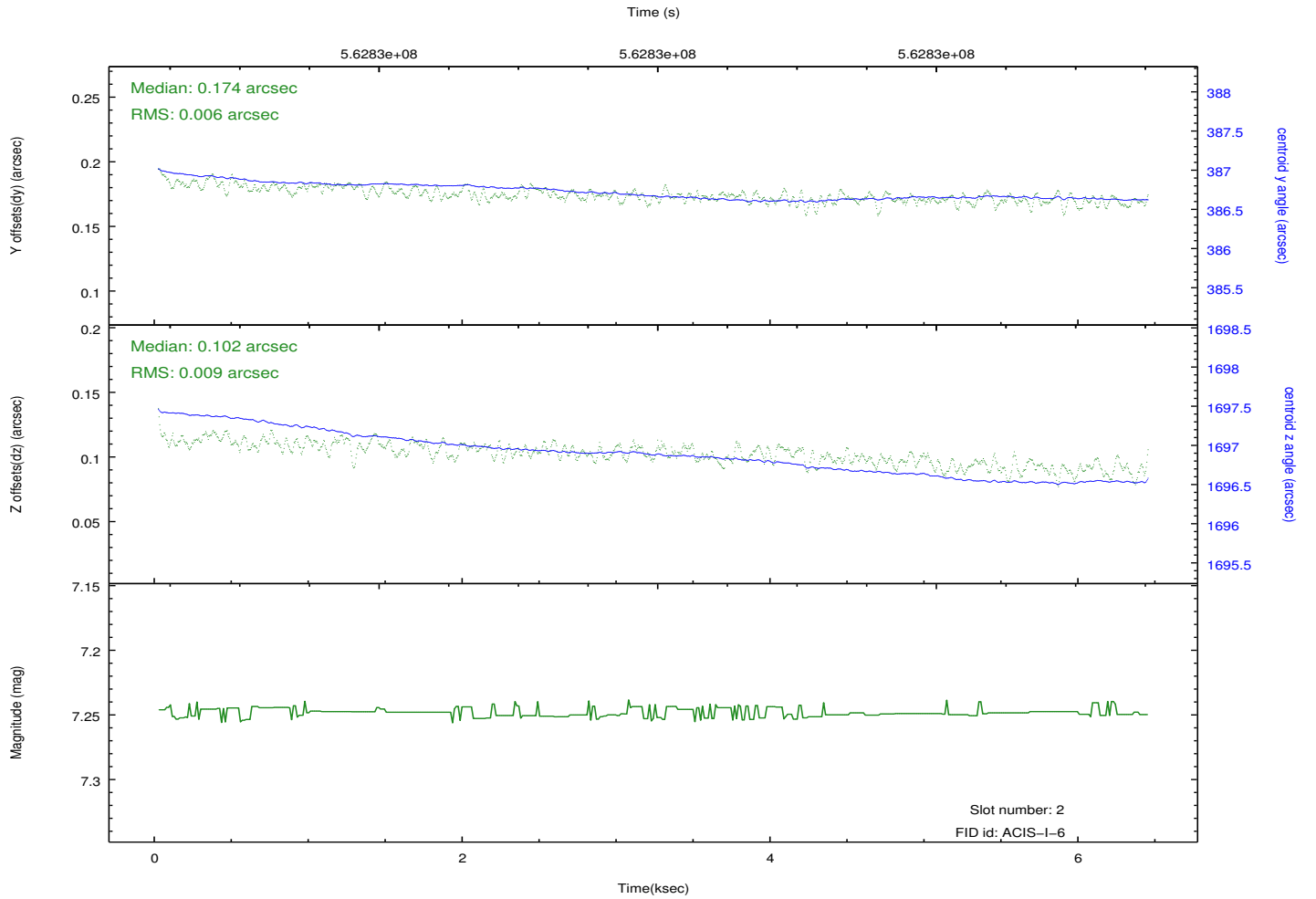
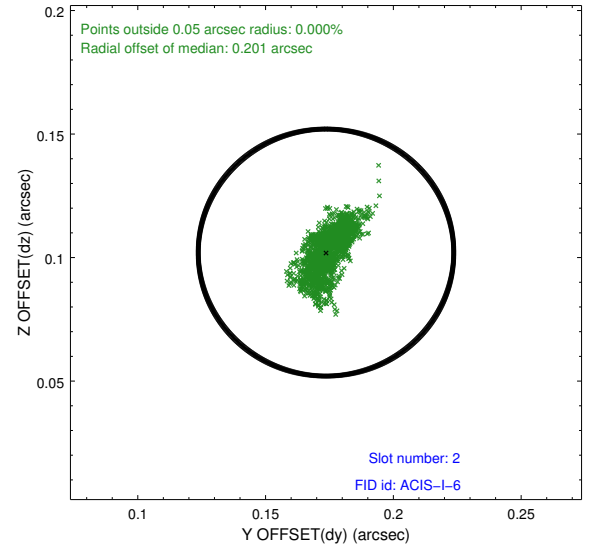
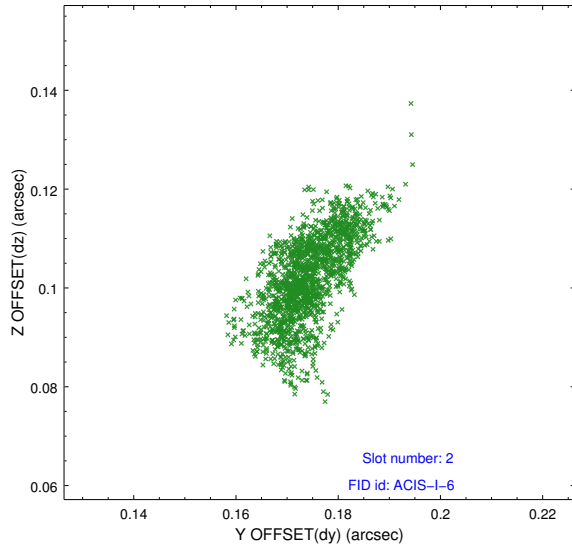
2.5.1 Slot 0



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)	2015.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0032000894547

A.2 Comments