

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 16999 - L2 Version 1
Chandra X-Ray Center

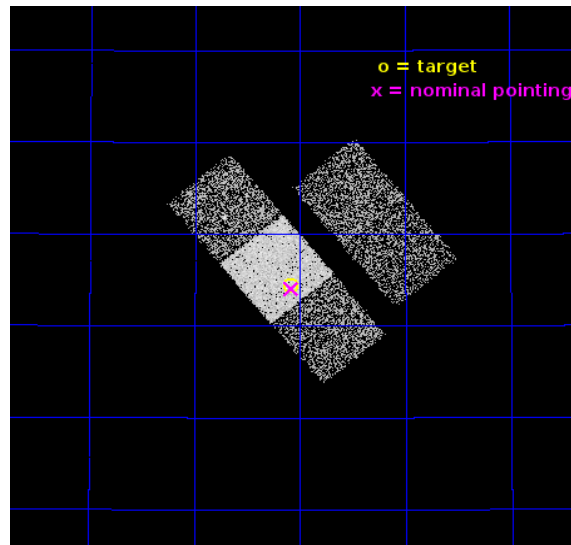
L2 Processing Date : Jul 27 2015

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1 Front

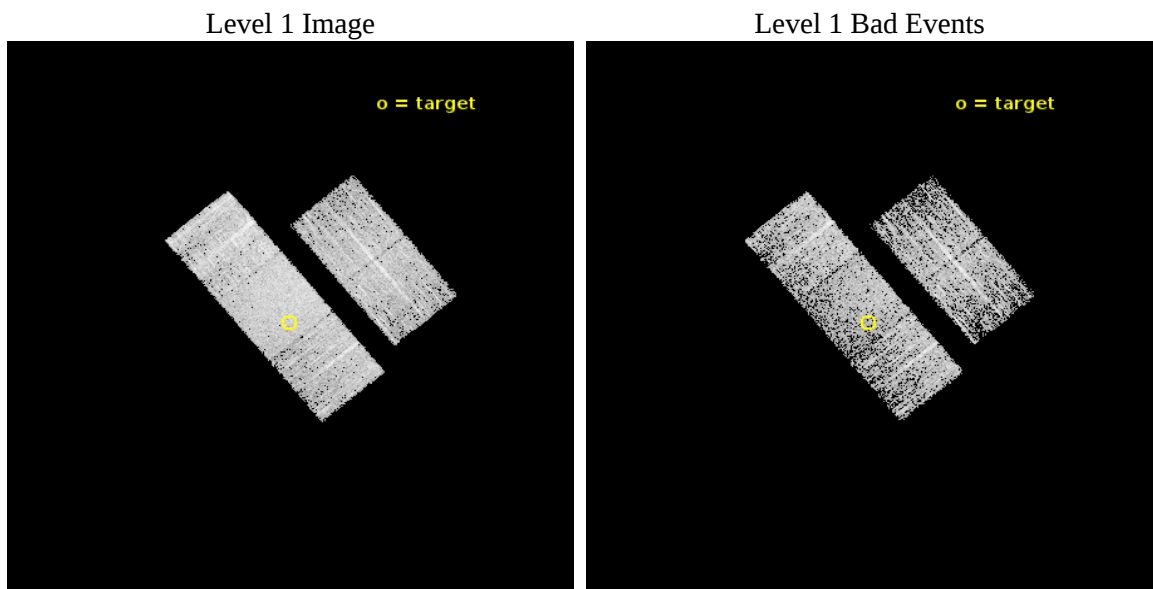
seq_num	601192	Sequence number
obs_id	16999	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC6239	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.520833	Observer's specified target RA [deg]
dec_targ	42.739833	Observer's specified target Dec [deg]
ra_nom	252.52066164597	Nominal RA [deg]
dec_nom	42.734322221111	Nominal Dec [deg]
roll_nom	230.38144826073	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4565.1138311625	Sum of GTIs [s]
livetime	4505.4672581704	Livetime [s]
ontime2	4564.9496711493	Sum of GTIs [s]
ontime3	4565.0317511559	Sum of GTIs [s]
ontime6	4565.0727912188	Sum of GTIs [s]
ontime7	4565.1138311625	Sum of GTIs [s]
ontime8	4564.9907112122	Sum of GTIs [s]
l2events	23452	Number of level 2 events



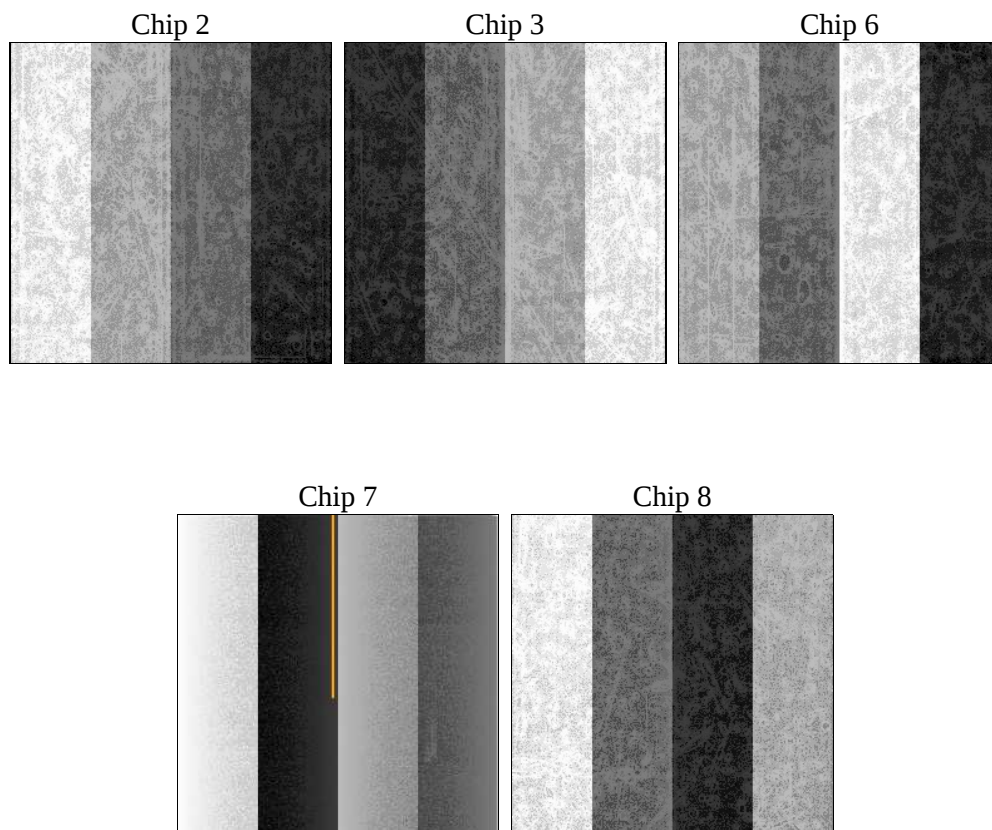
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	4565.1138311625	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	4564.9496711493	Sum of GTIs [s]
date	2015-07-27T12:50:41	Date and time of file creation	ontime3	4565.0317511559	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4565.0727912188	Sum of GTIs [s]
			ontime7	4565.1138311625	Sum of GTIs [s]
			ontime8	4564.9907112122	Sum of GTIs [s]
			l1events	130270	Number of level 1 events

2.1.4 Events

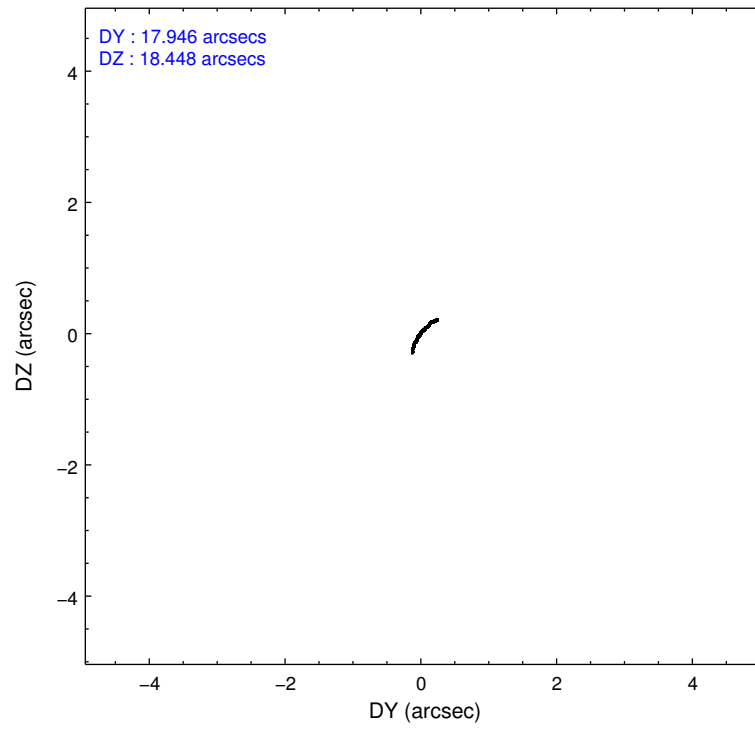
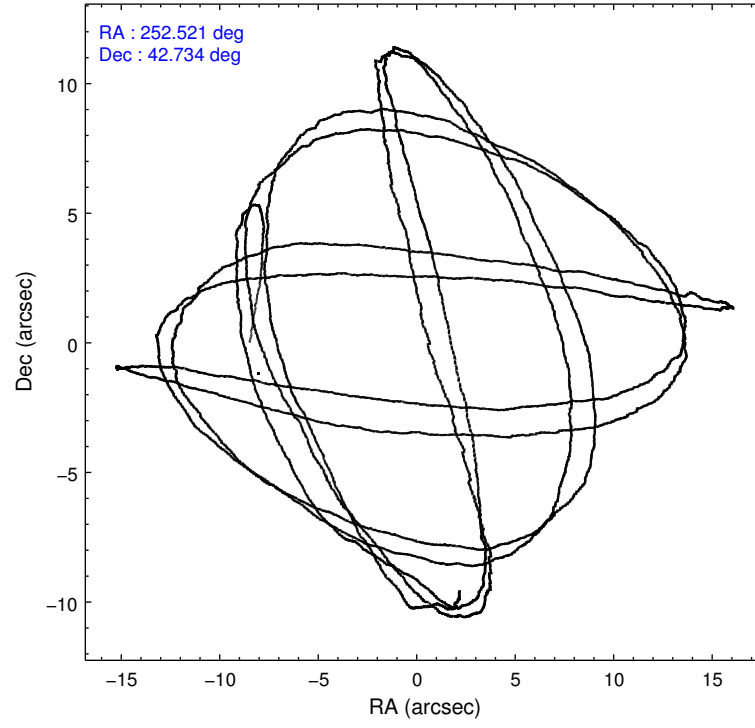
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	21957	21542	22760	31564	32447
rejected events	19379	18887	19824	17798	23905
rejected %	88%	87%	87%	56%	73%

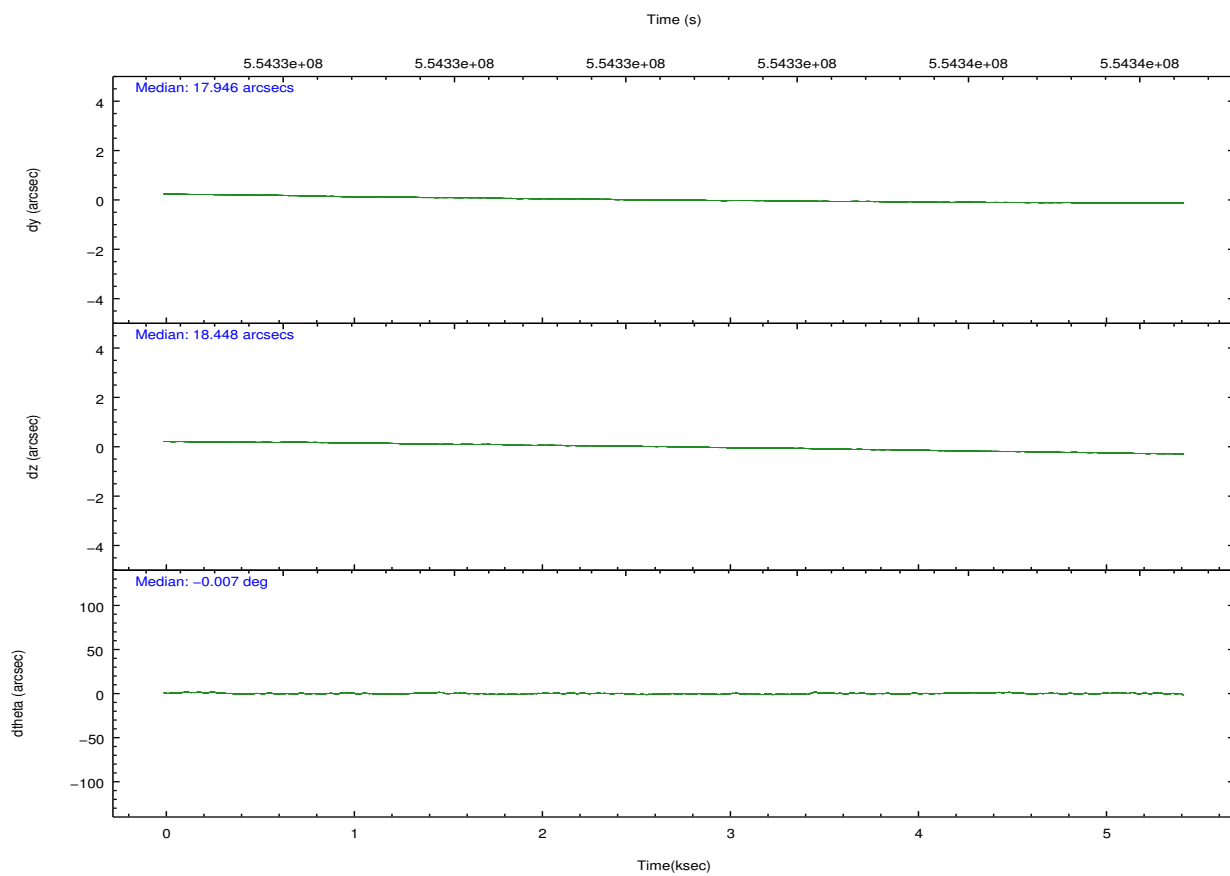
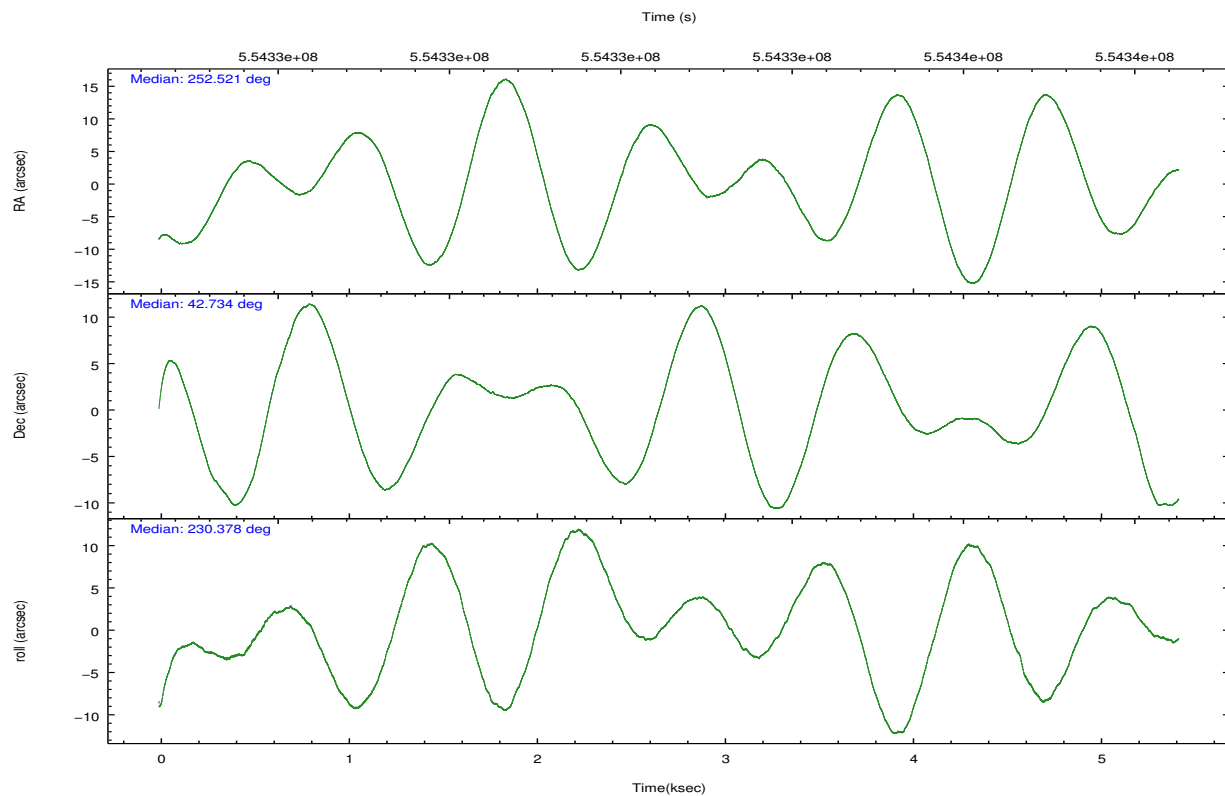
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	873	970	953	1165	2469
	3%	4%	4%	3%	7%
grade 1 events	18	13	17	42	32
	0%	0%	0%	0%	0%
grade 2 events	636	598	697	2866	1982
	2%	2%	3%	9%	6%
grade 3 events	289	298	316	1146	878
	1%	1%	1%	3%	2%
grade 4 events	258	250	282	1103	856
	1%	1%	1%	3%	2%
grade 5 events	1005	1221	1206	3302	1712
	4%	5%	5%	10%	5%
grade 6 events	524	539	690	7504	2362
	2%	2%	3%	23%	7%
grade 7 events	18354	17653	18599	14436	22156
	83%	81%	81%	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	252.526508	252.5206616459739	CCD I2 on	O2	Y
[deg] Pointing Dec	42.761520	42.73432222111122	CCD I3 on	O1	Y
[deg] Pointing Roll	230.220869	230.3814482607345	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)	554331470.184000	554329565.39079	CCD S5 on	N	N
Observation start date	2015-07-26T20:56:42	2015-07-26T20:26:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	554335970.184000	554336777.29119	On-chip summing requested	N	N
Observation end date	2015-07-26T22:11:42	2015-07-26T22:26:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



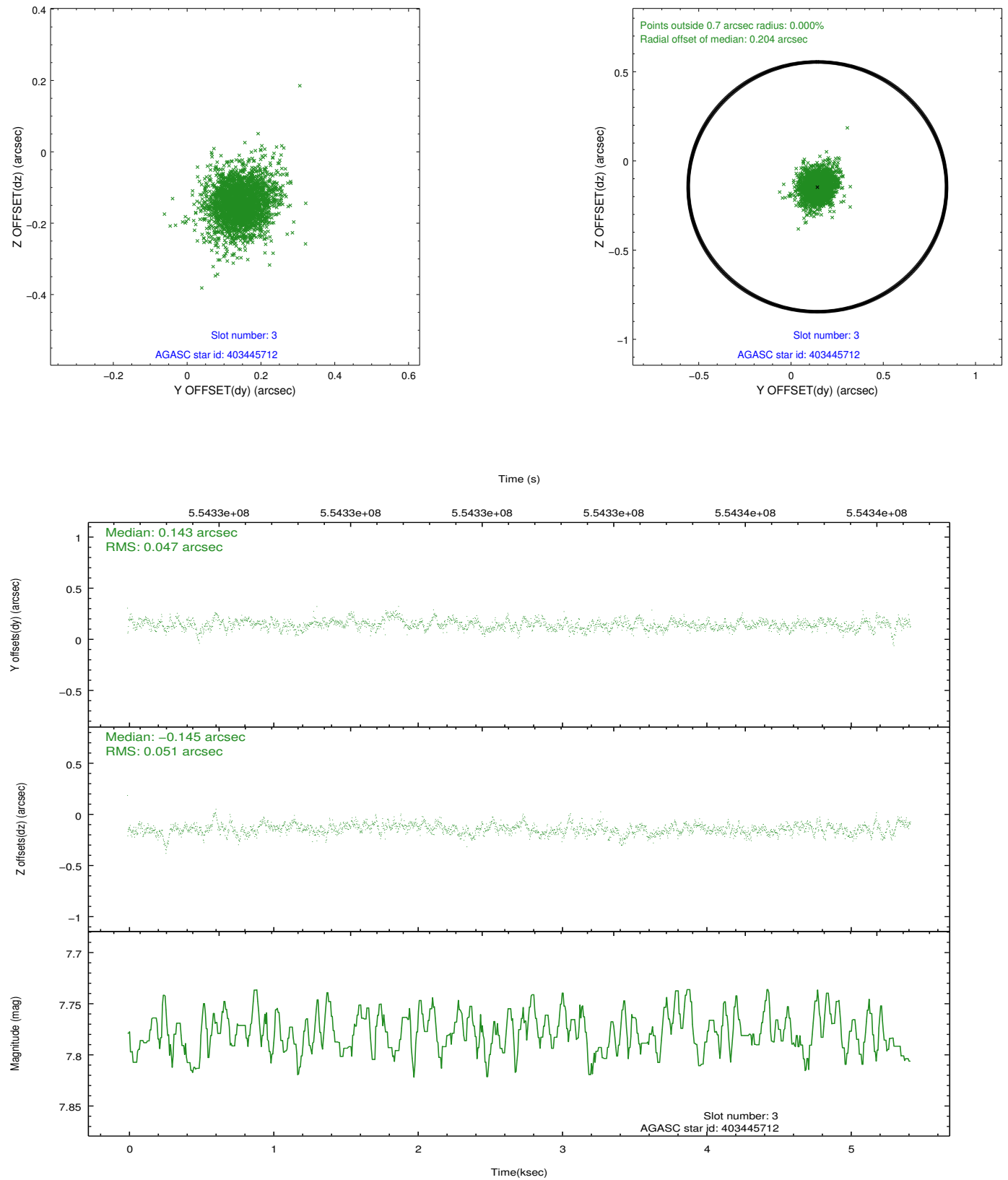


Slot Statistics

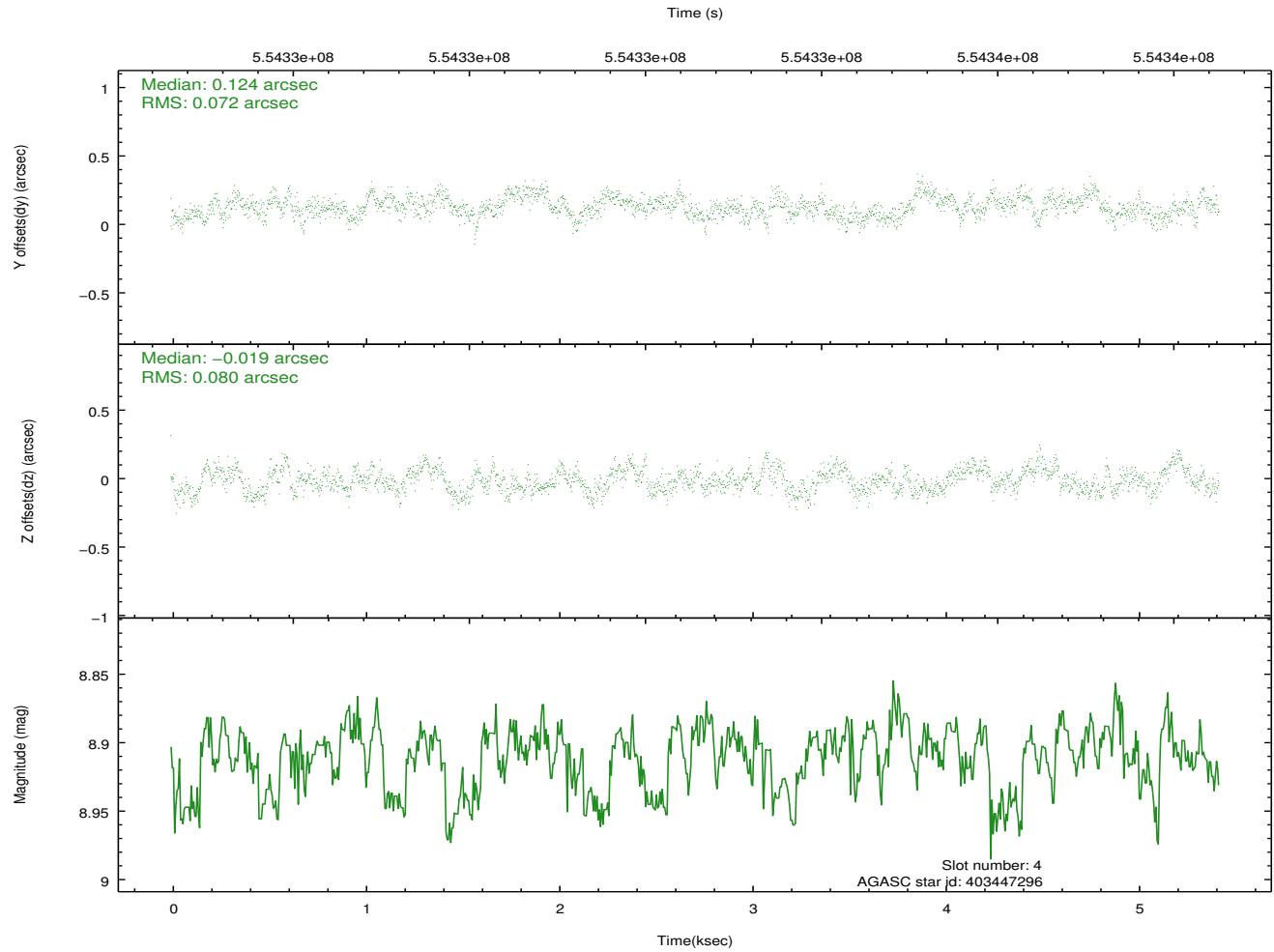
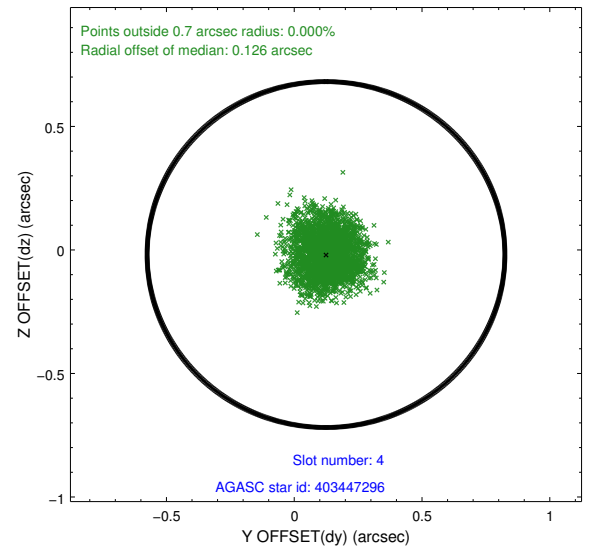
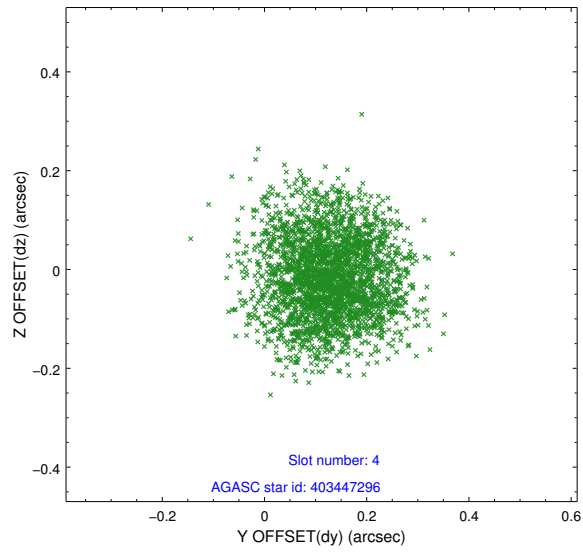
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.99	1323	0.144	-0.051	0.007	0.011	0.000000	0.000000	925.22	-1735.55
1	FID		ACIS-S-5	7.02	1323	-0.255	0.092	0.010	0.015	0.000000	0.000000	-1823.62	160.91
2	FID		ACIS-S-6	7.13	1323	0.090	-0.029	0.010	0.016	0.000000	0.000000	389.44	806.07
3	GUIDE	used	403445712	7.78	2644	0.143	-0.145	0.071	0.122	252.092728	42.233794	2197.42	325.05
4	GUIDE	used	403447296	8.91	2645	0.124	-0.019	0.117	0.181	252.368946	42.540904	877.56	185.13
5	GUIDE	used	403571624	7.76	2644	-0.114	0.042	0.071	0.115	252.786547	42.080338	1438.34	2102.02
6	GUIDE	used	403576552	6.89	2647	-0.088	0.085	0.084	0.136	253.384705	42.824856	-1631.19	1593.62
7	GUIDE	used	403577944	8.60	2646	-0.070	0.033	0.100	0.157	253.521012	42.706834	-1545.06	2138.68

2.4 Star Slots

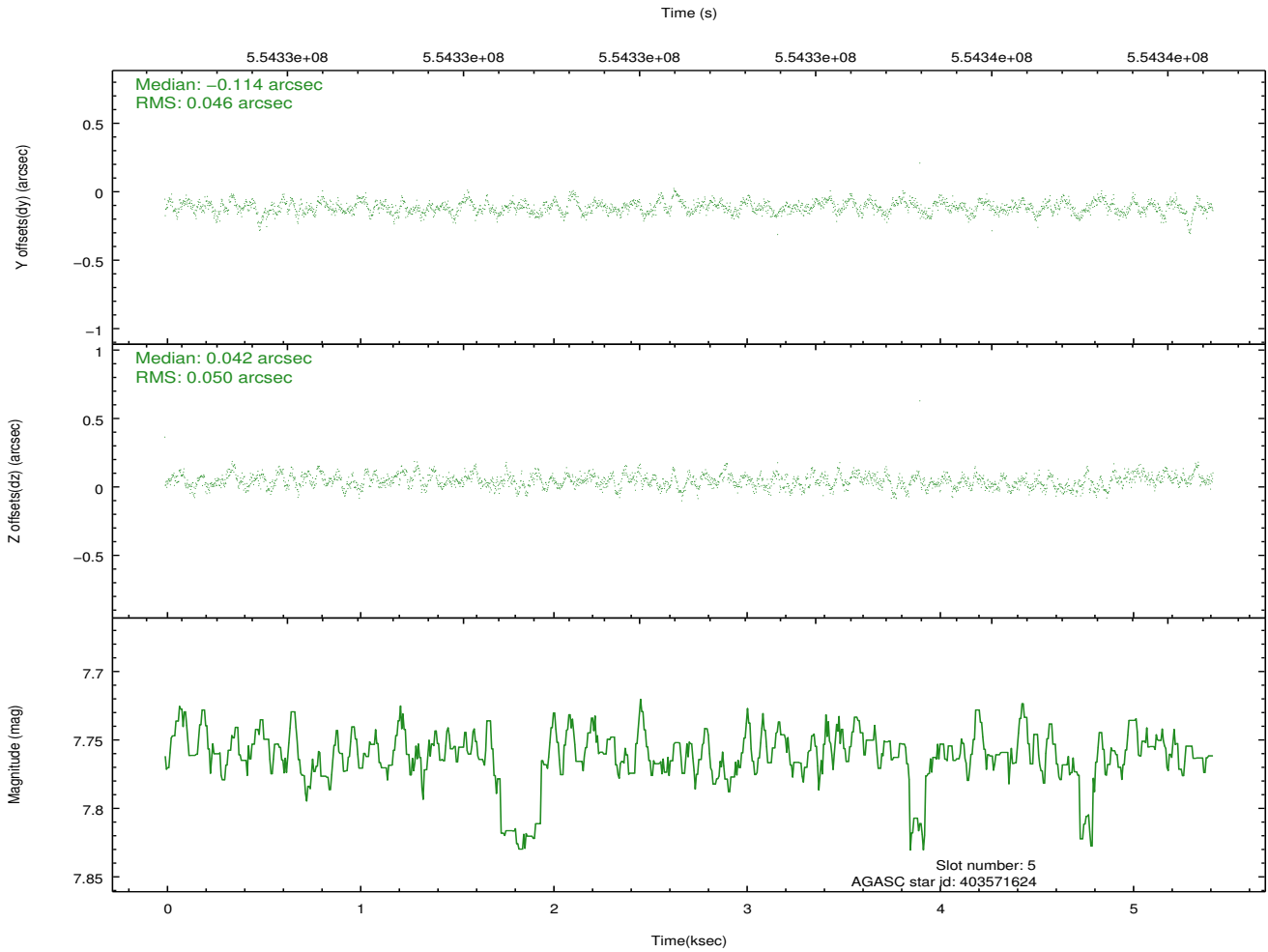
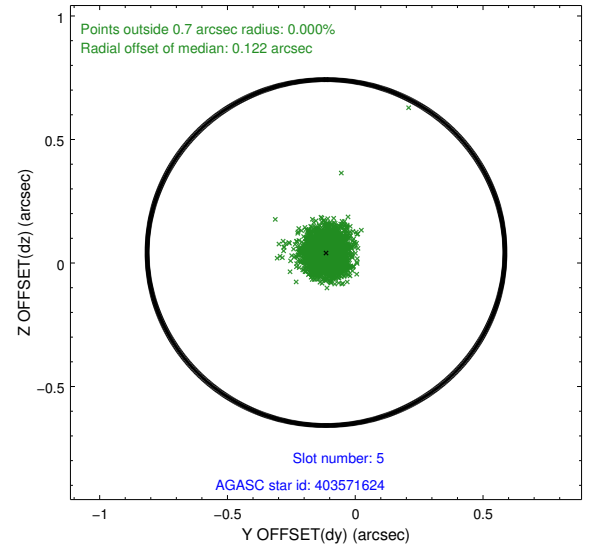
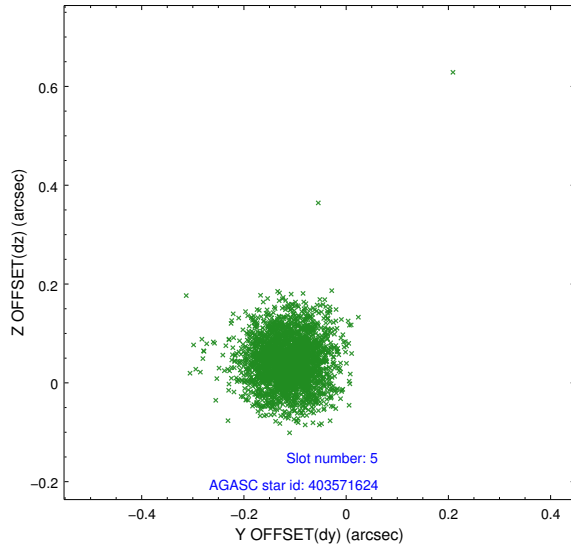
2.4.1 Slot 3



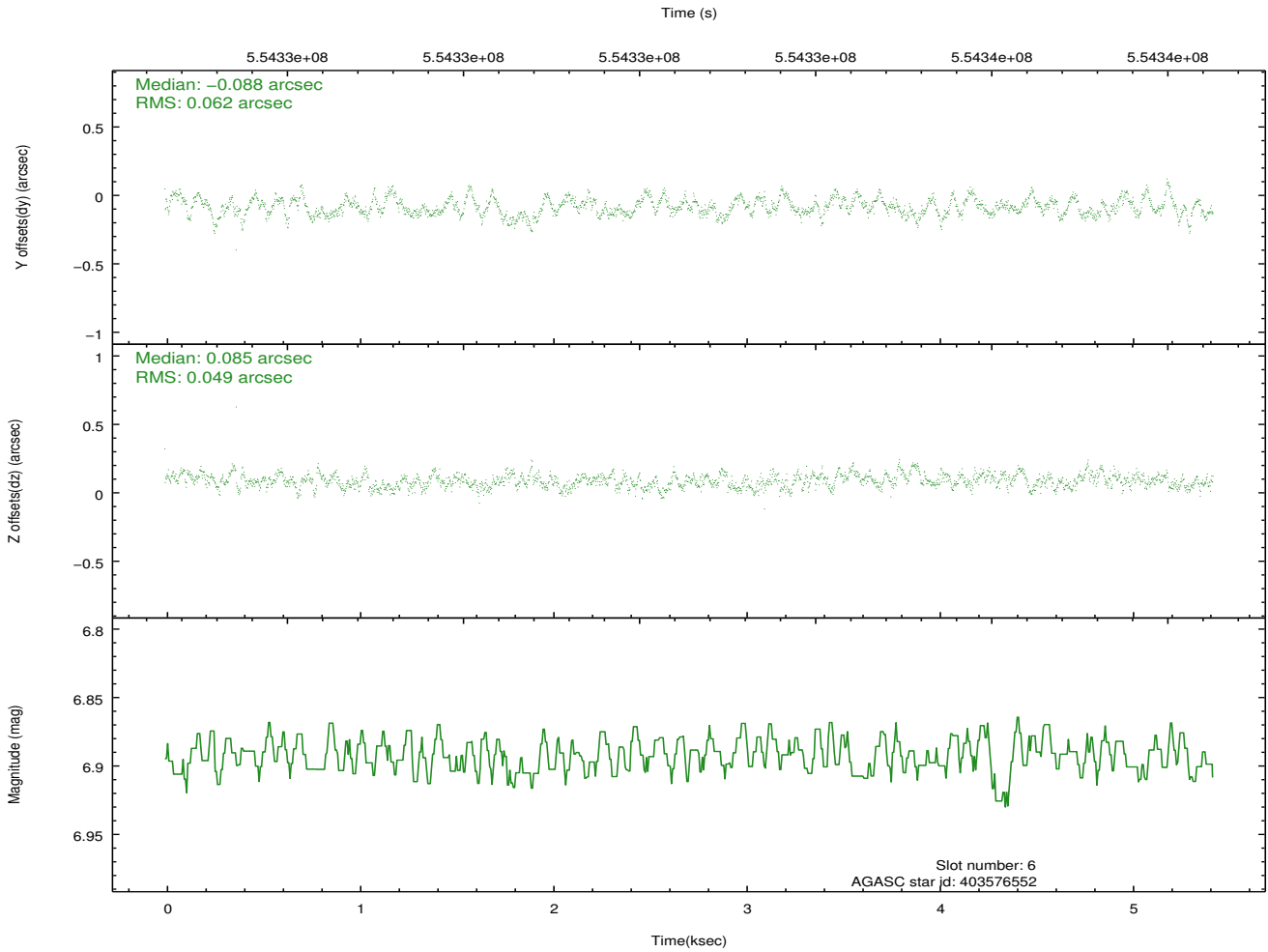
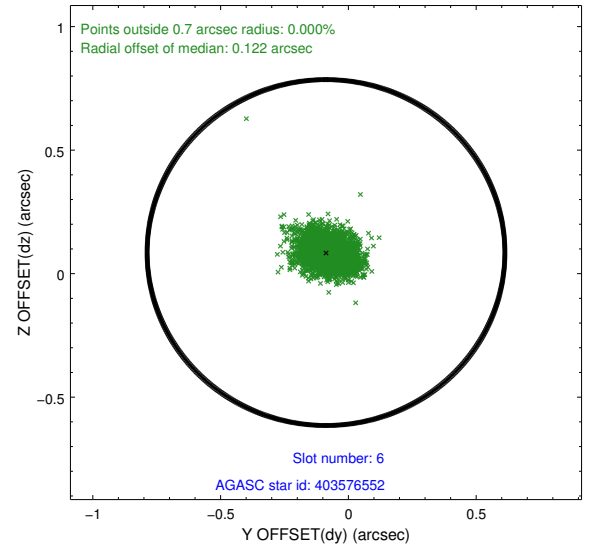
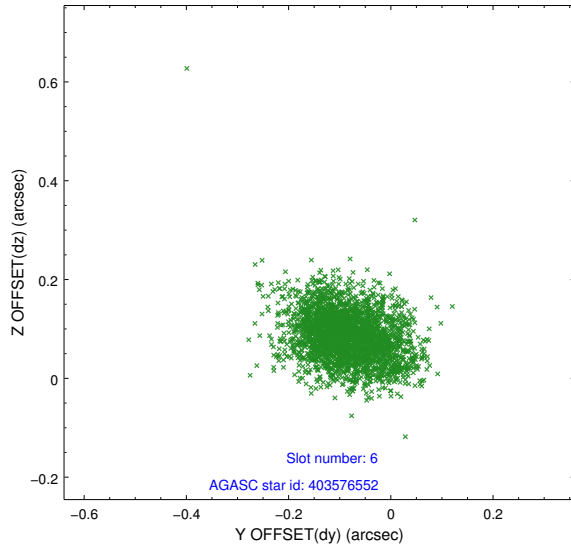
2.4.2 Slot 4



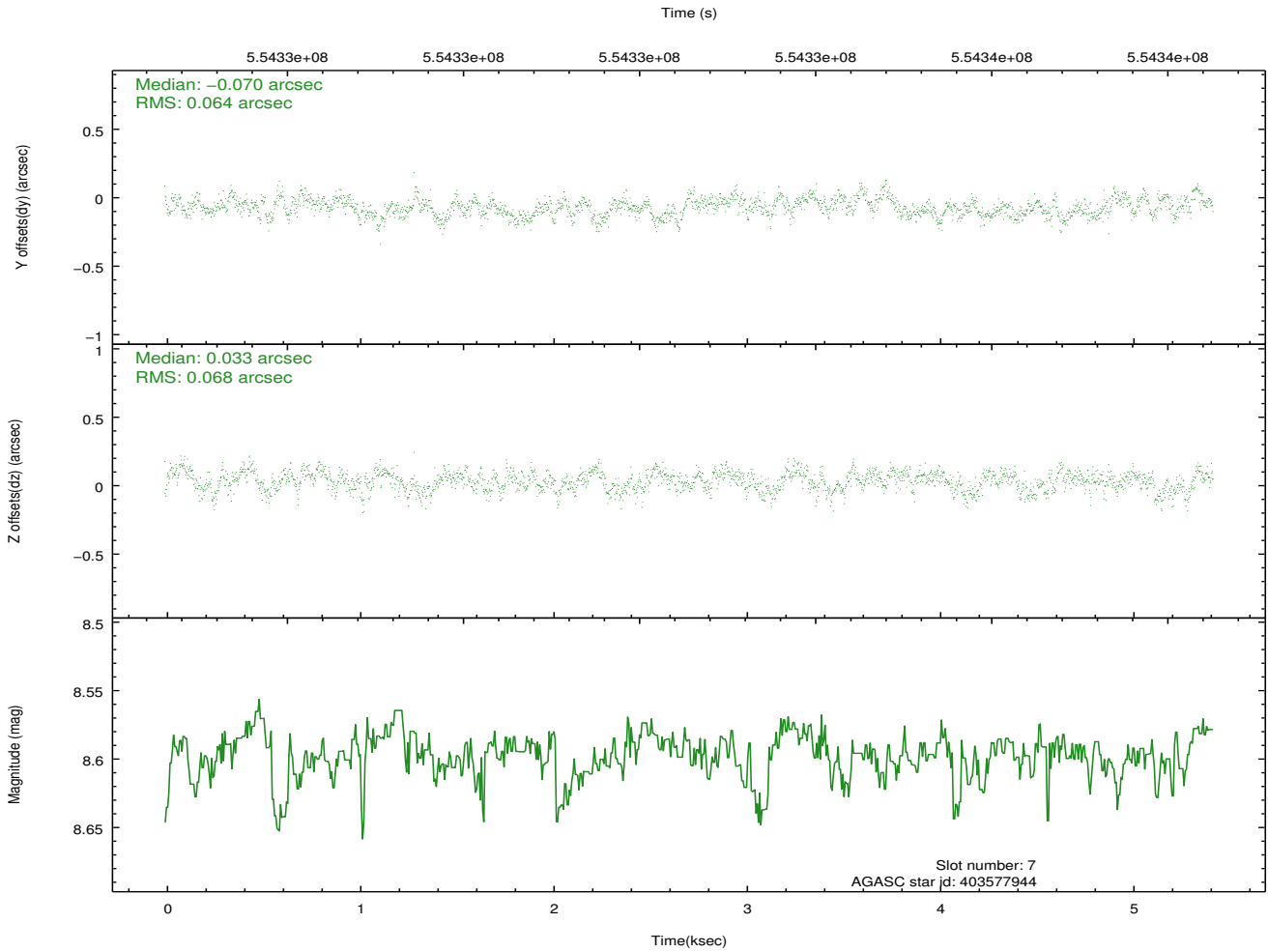
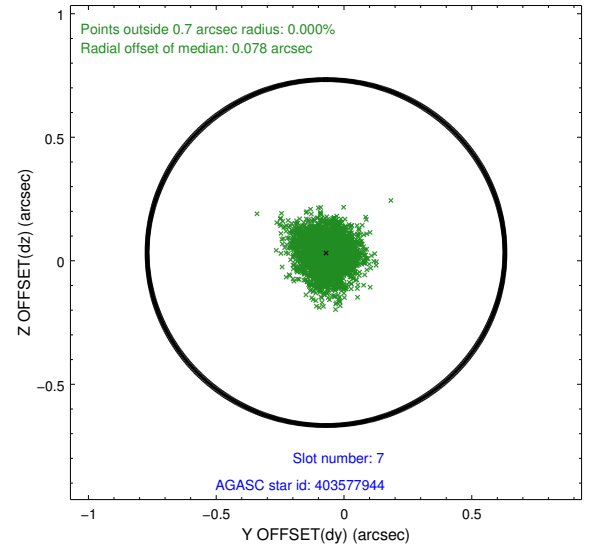
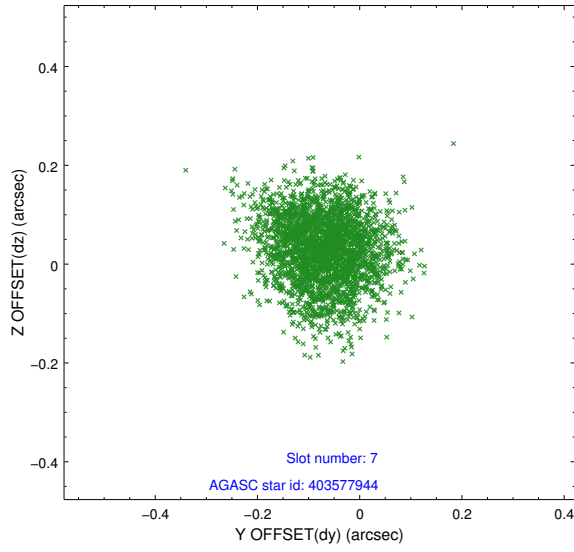
2.4.3 Slot 5



2.4.4 Slot 6

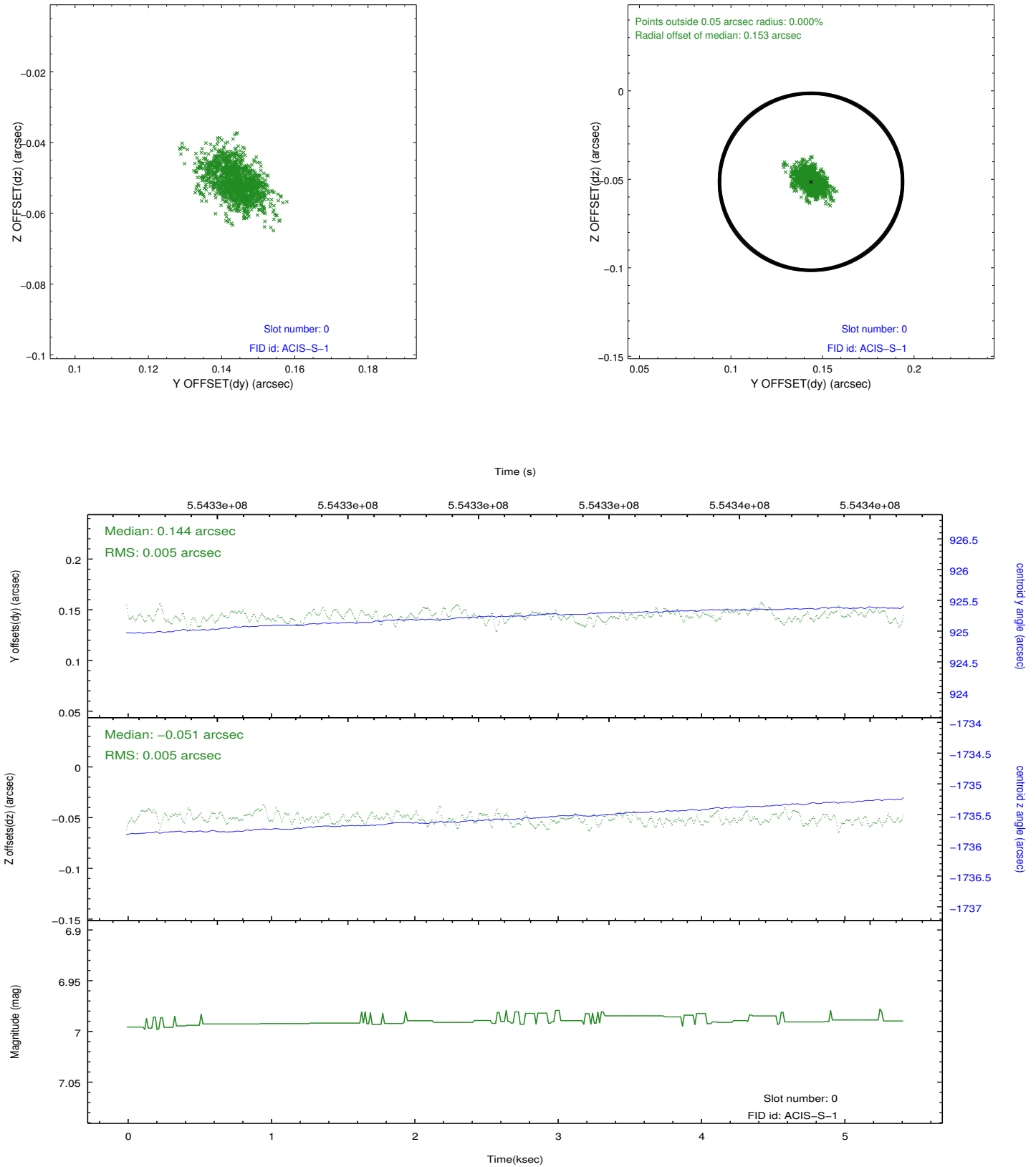


2.4.5 Slot 7

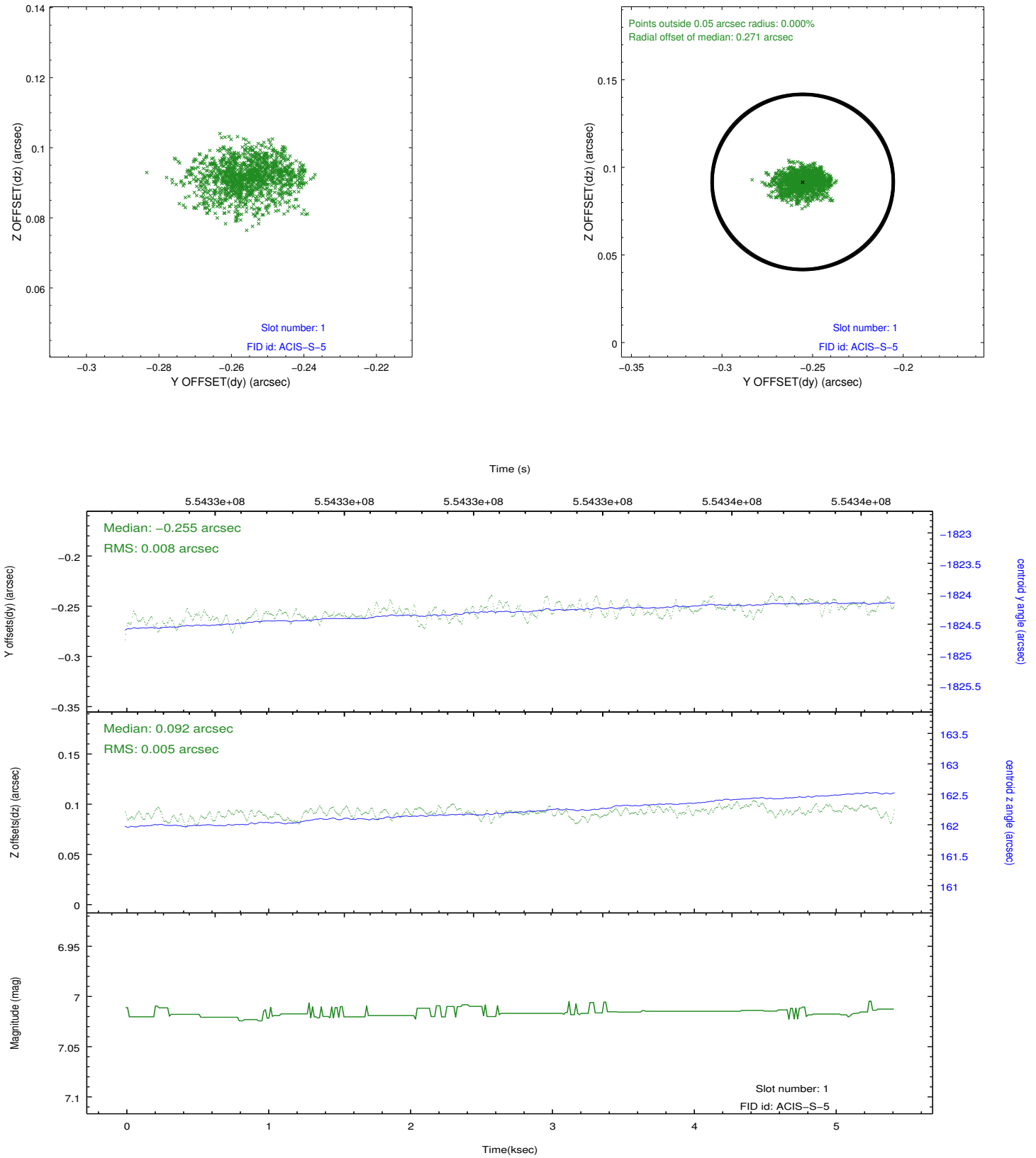


2.5 FID Slots

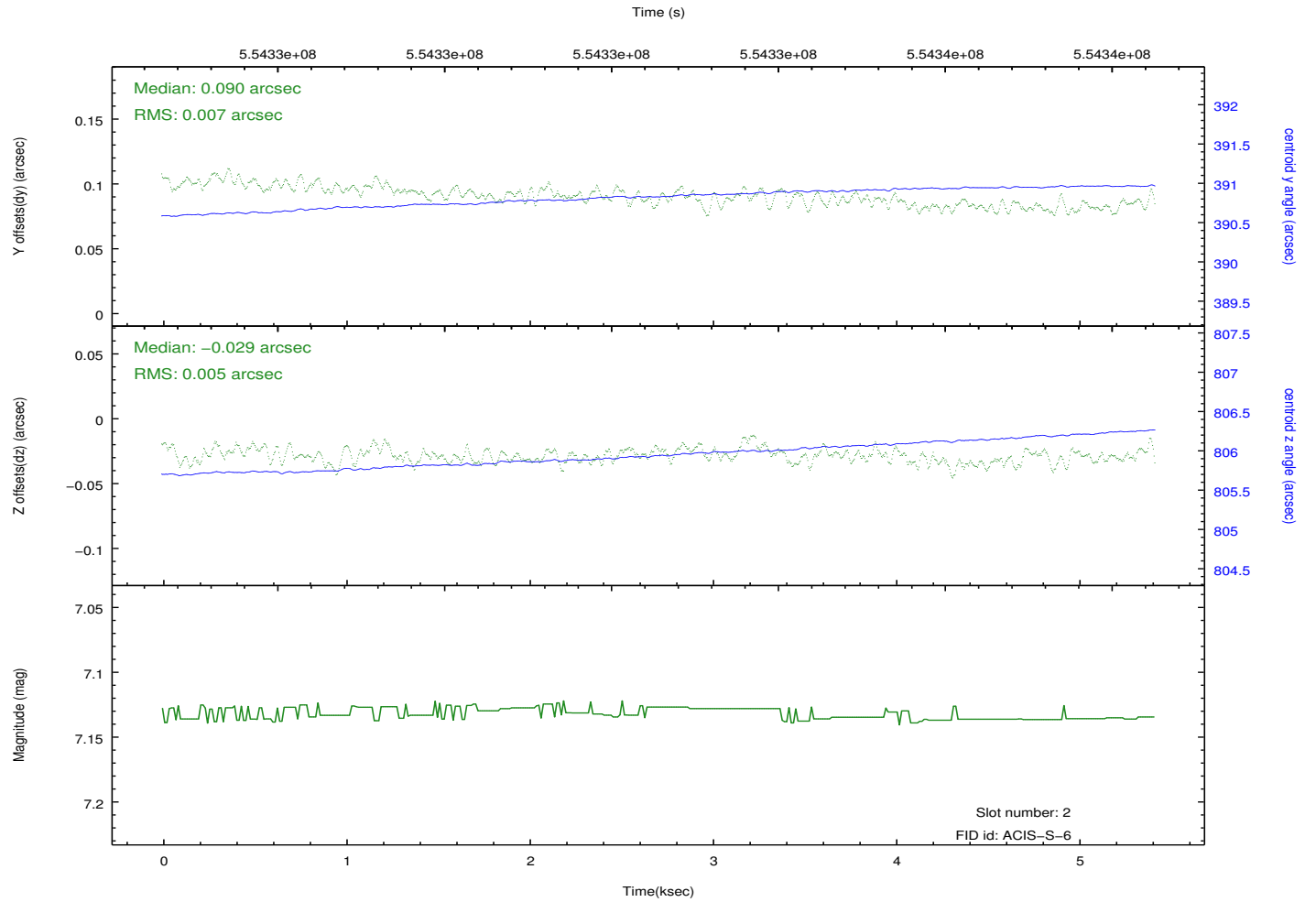
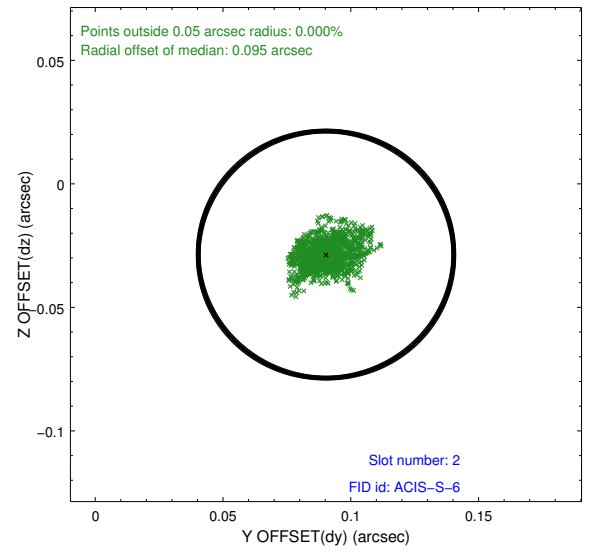
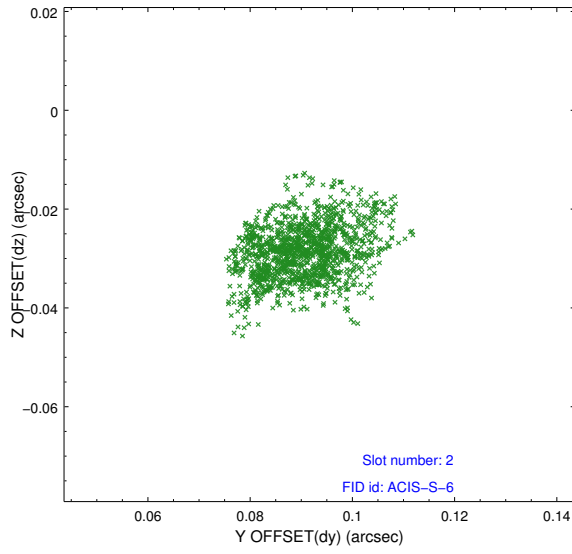
2.5.1 Slot 0



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)	2015.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.5651138311625

A.2 Comments