

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18344 - L2 Version 1
Chandra X-Ray Center

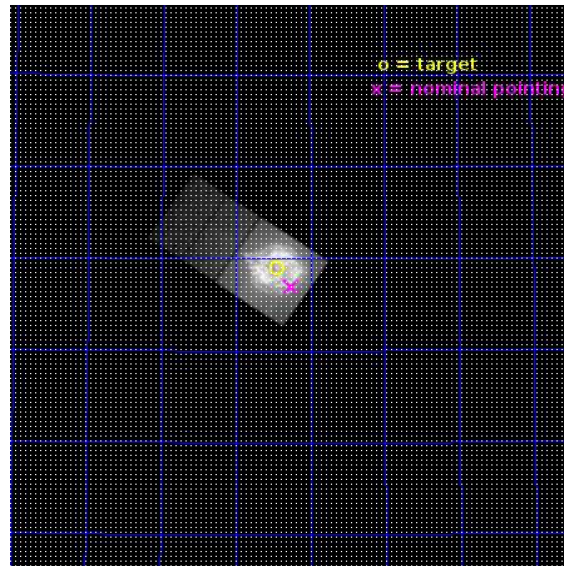
L2 Processing Date : Oct 22 2016

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1 Front

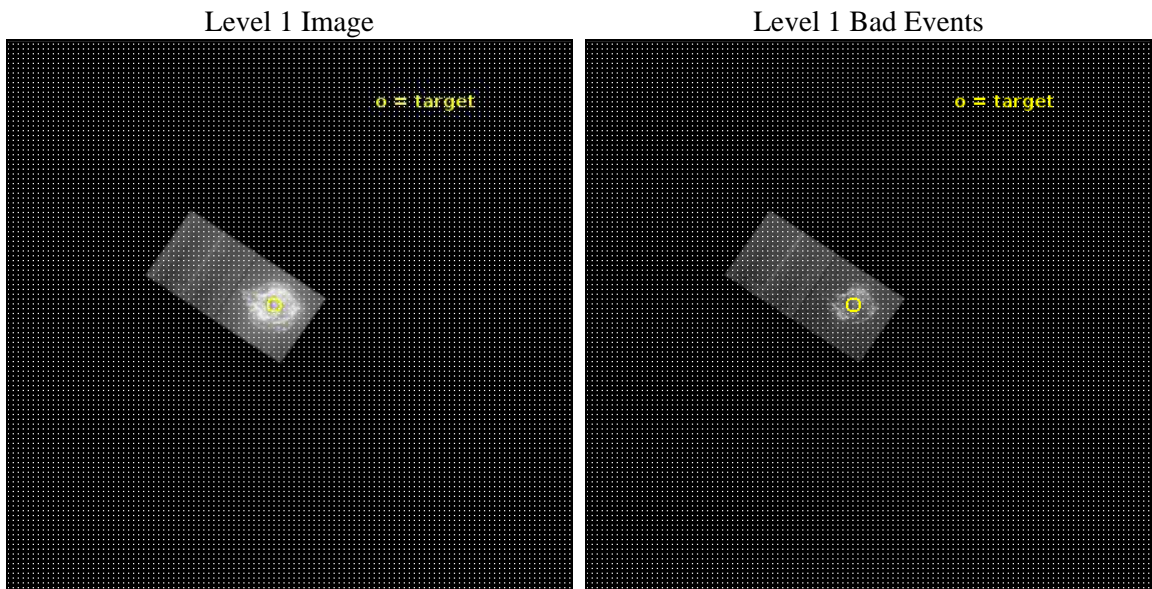
seq_num	502655	Sequence number
obs_id	18344	Observation id
title	Continued Multicycle Monitoring of the Young Galactic Supernova Remnant Cassiopeia A	Proposal title
observer	Daniel Patnaude	Principal investigator
object	Cassiopeia A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.81373771076	Nominal RA [deg]
dec_nom	58.782890499203	Nominal Dec [deg]
roll_nom	214.19726383289	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26106.0	Sum of GTIs [s]
livetime	25753.689527267	Livetime [s]
ontime7	26106.0	Sum of GTIs [s]
ontime8	26106.0	Sum of GTIs [s]
l2events	6032907	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	26106.0	Sum of GTIs [s]
caldsver	4.7.2	 	ontime7	26106.0	Sum of GTIs [s]
date	2016-10-22T11:04:31	Date and time of file creation	ontime8	26106.0	Sum of GTIs [s]
revision	1	Processing version of data	l1events	6749856	Number of level 1 events

2.1.3 Events

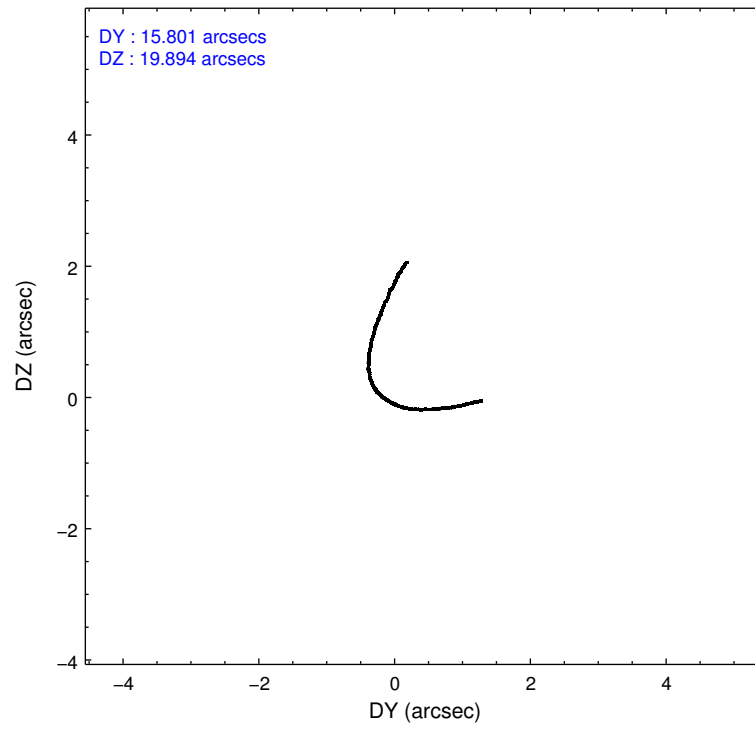
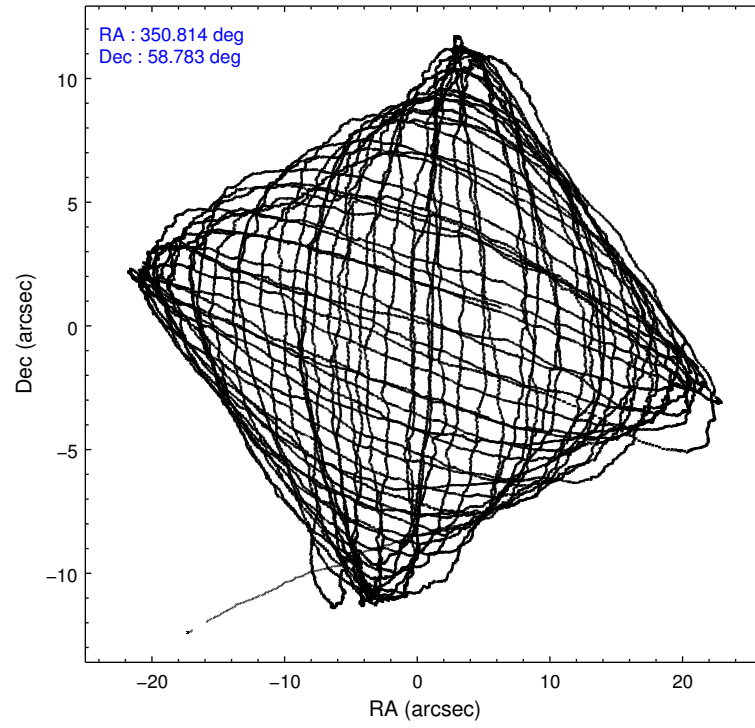
	ccd 7	ccd 8
level 1 events	6479921	269935
rejected events	416280	173785
rejected %	6%	64%

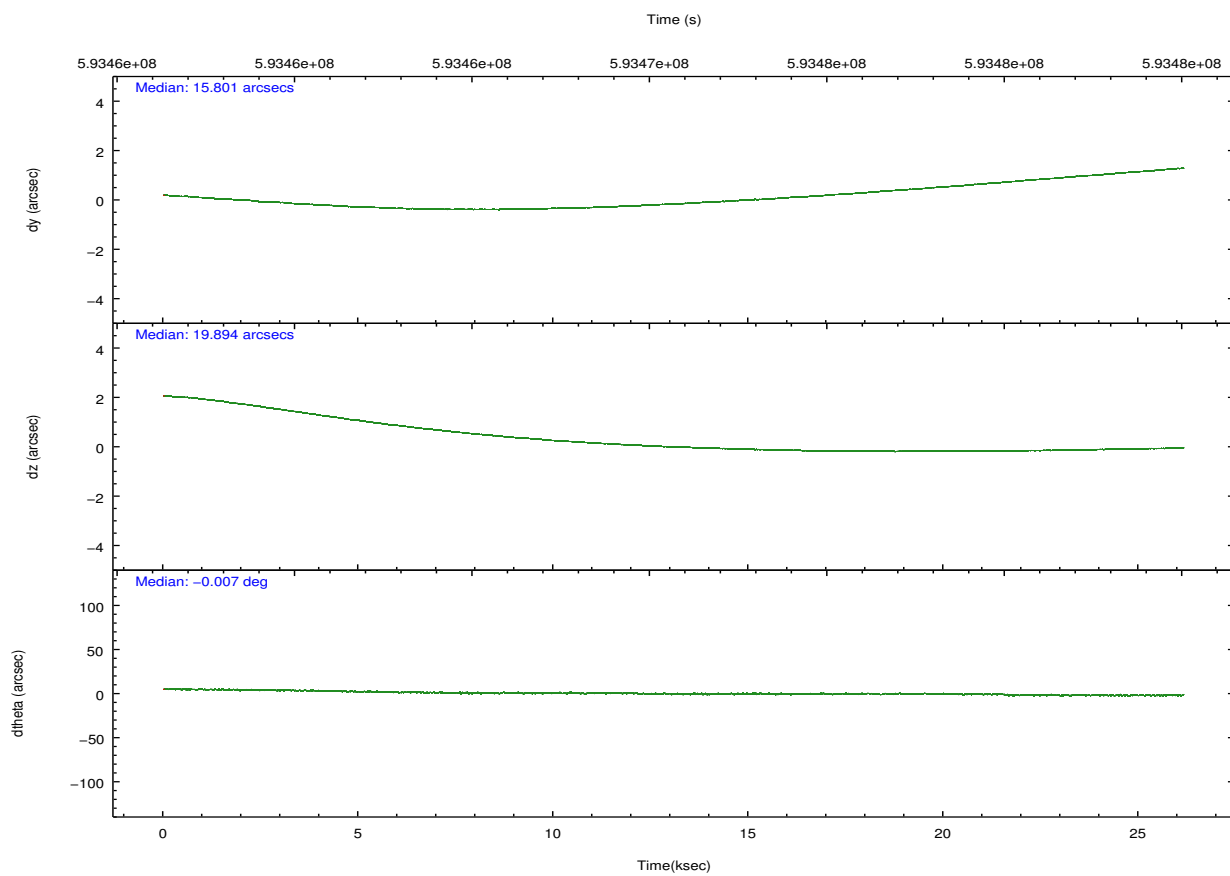
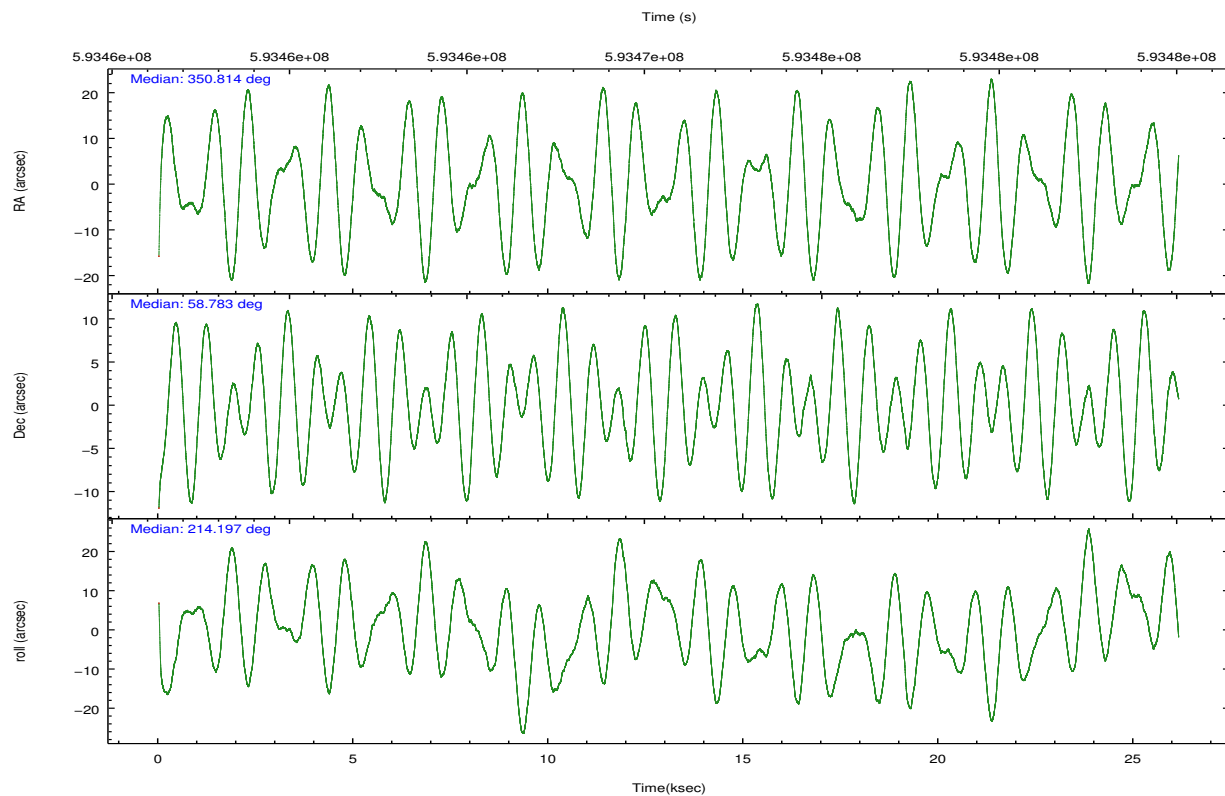
	ccd 7	ccd 8
grade 0 events	1203850	41676
	18%	15%
grade 1 events	16152	228
	0%	0%
grade 2 events	1969357	21023
	30%	7%
grade 3 events	568652	7124
	8%	2%
grade 4 events	565847	6608
	8%	2%
grade 5 events	111264	11141
	1%	4%
grade 6 events	1756623	19725
	27%	7%
grade 7 events	288176	162410
	4%	60%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-78	ACIS-78	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.836158	350.8137377107616	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.807761	58.78289049920335	Alternating exposures requested	N	N
[deg] Pointing Roll	214.021461	214.1972638328879	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	593457778.184000	593456392.12015			
Observation start date	2016-10-21T17:21:50	2016-10-21T16:59:52			
[s] Observation end time (MET)	593483778.184000	593484135.28425			
Observation end date	2016-10-22T00:35:10	2016-10-22T00:42:15			
Read mode	TIMED	TIMED			

2.3 Aspect



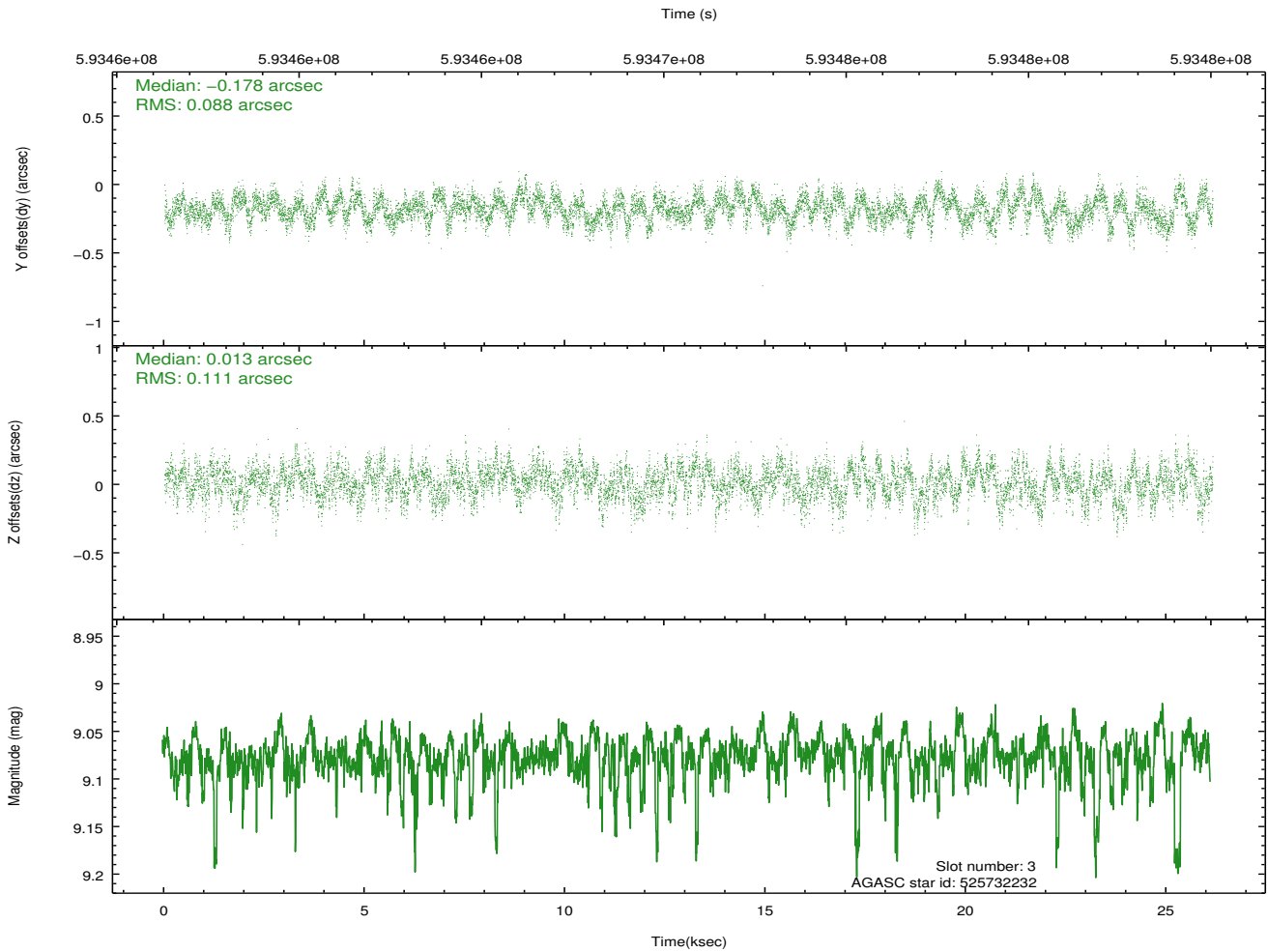
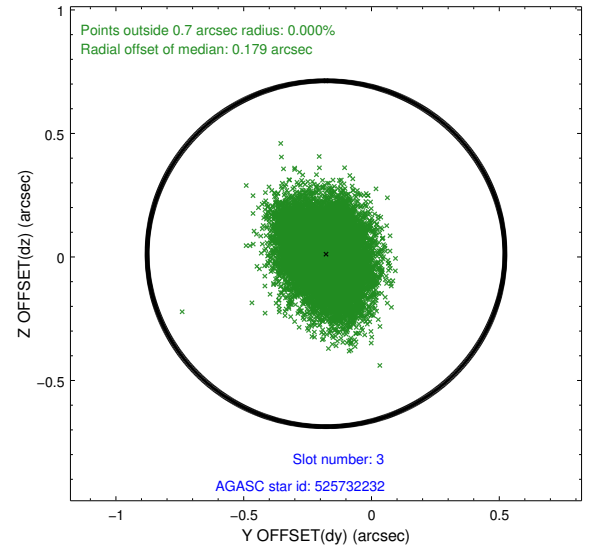
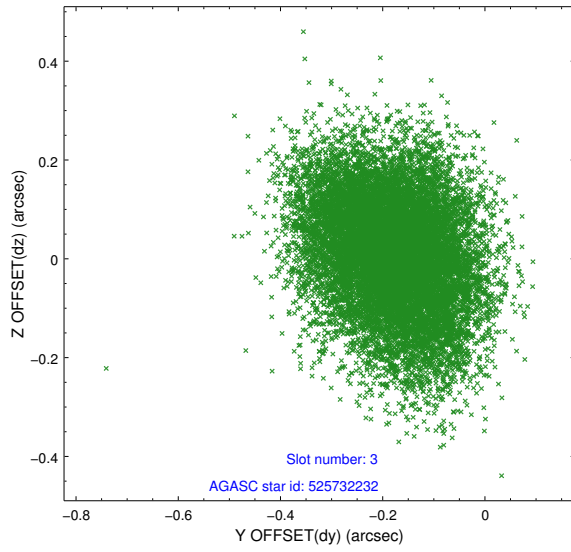


Slot Statistics

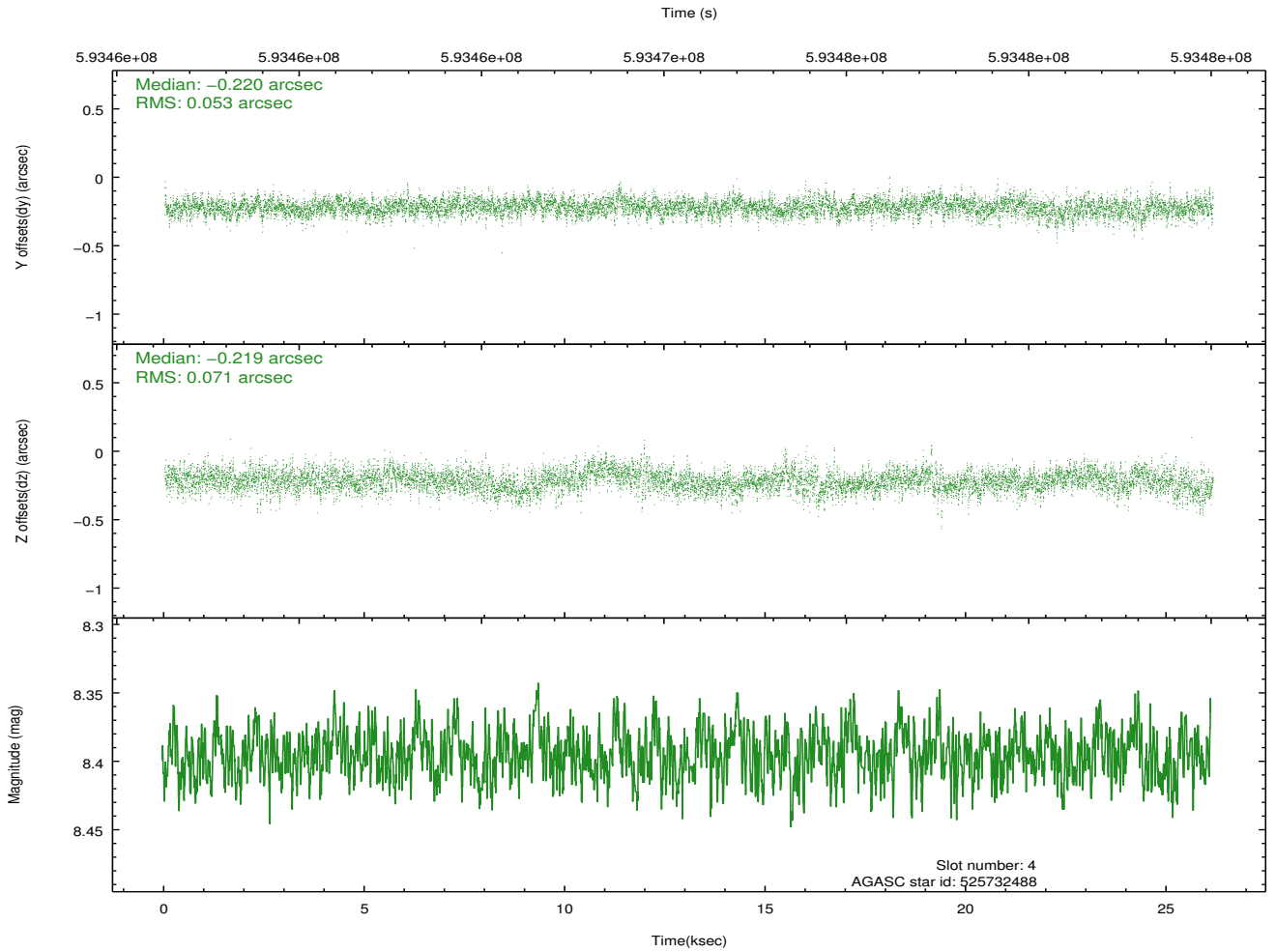
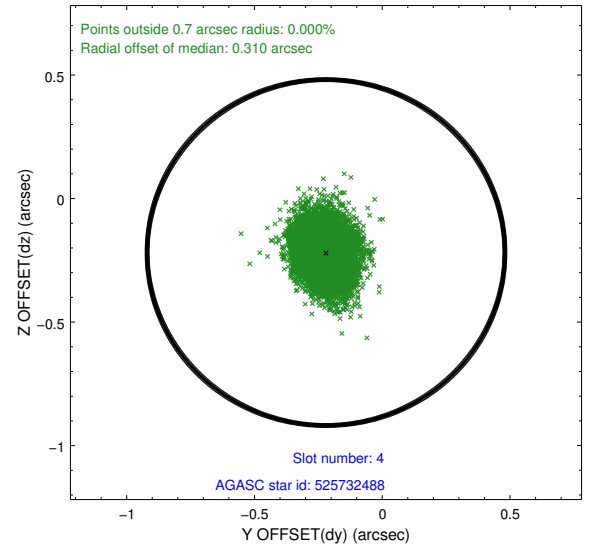
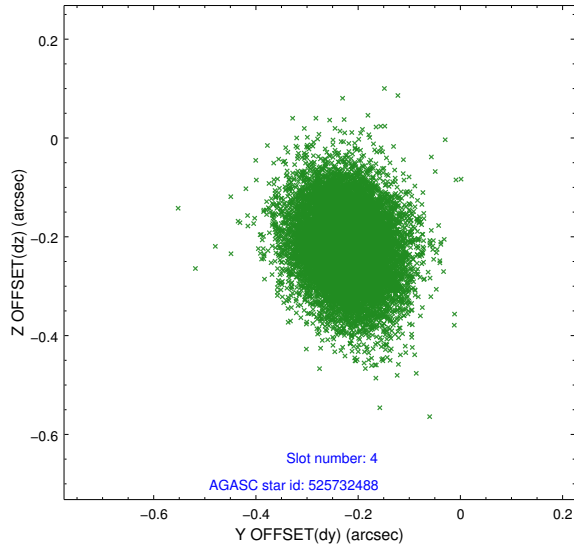
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.05	6378	0.016	-0.061	0.019	0.026	0.000000	0.000000	927.15	-1737.46
1	FID		ACIS-S-4	7.07	6377	0.338	0.036	0.016	0.044	0.000000	0.000000	2144.88	166.72
2	FID		ACIS-S-5	7.07	6378	-0.376	0.036	0.022	0.037	0.000000	0.000000	-1822.03	160.33
3	GUIDE	used	525732232	9.08	12749	-0.178	0.013	0.151	0.245	351.669550	58.757012	-1193.32	1016.84
4	GUIDE	used	525732488	8.40	12748	-0.220	-0.219	0.092	0.156	350.087090	58.516915	1748.55	73.33
5	GUIDE	used	525732528	9.30	12742	0.617	0.068	0.151	0.246	351.607241	59.298932	-2167.19	-679.29
6	GUIDE	used	525735456	7.02	12755	0.120	0.301	0.097	0.160	350.628183	59.307249	-689.10	-1704.41
7	GUIDE	used	525735976	8.67	12740	-0.329	-0.168	0.125	0.221	350.142956	58.277622	2151.82	841.82

2.4 Star Slots

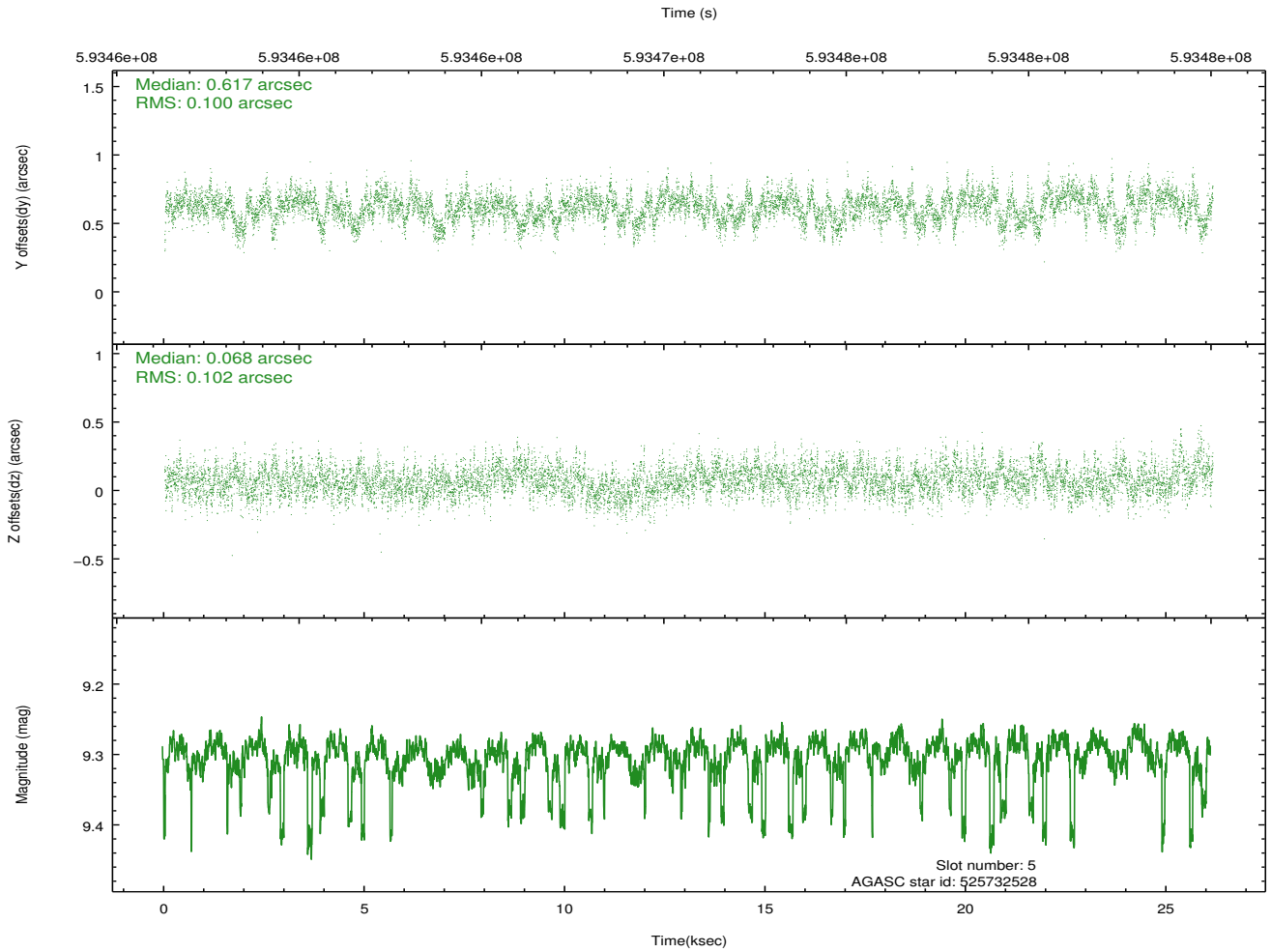
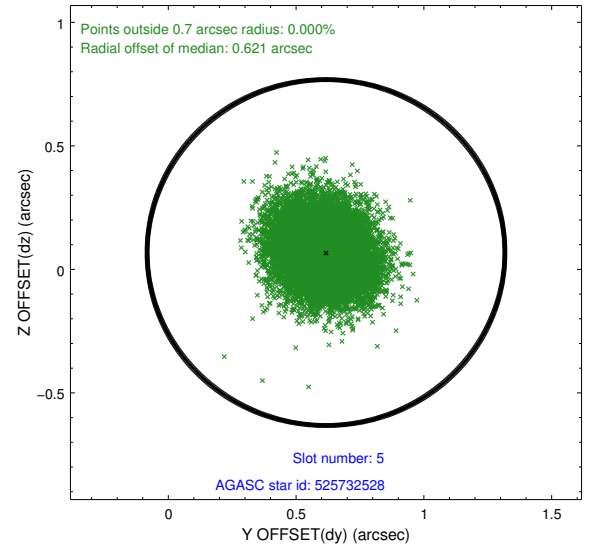
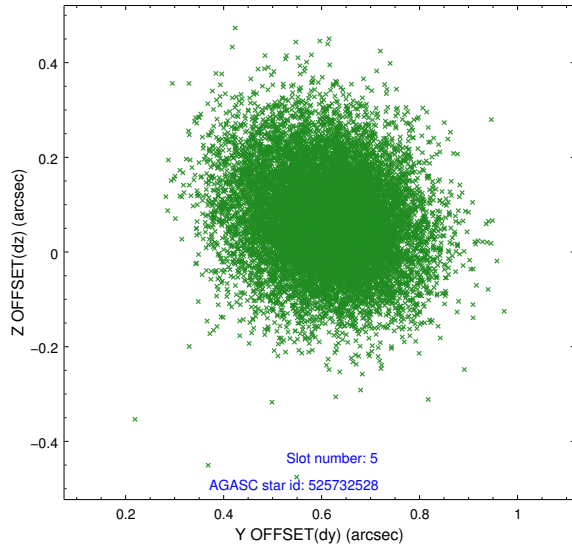
2.4.1 Slot 3



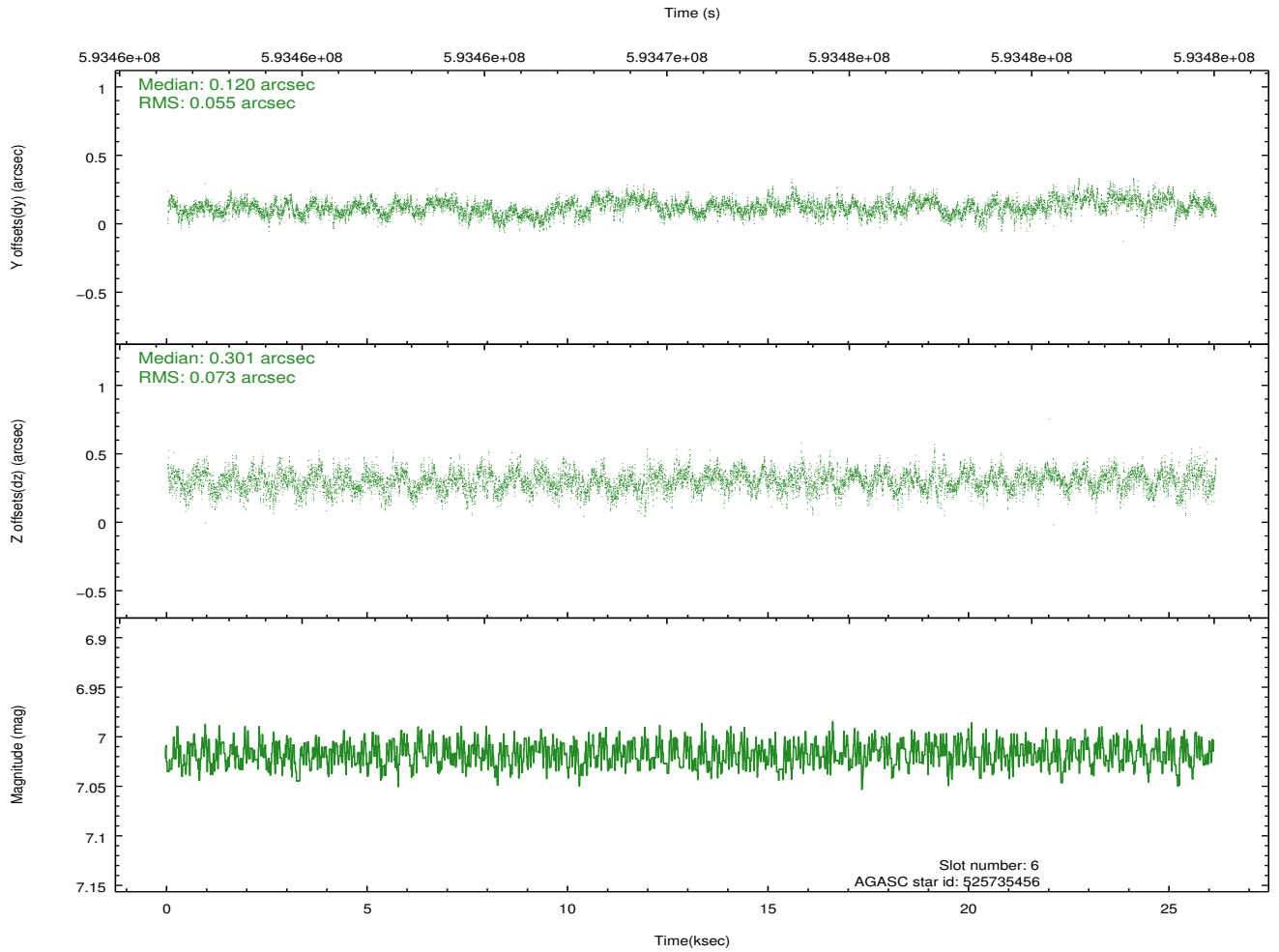
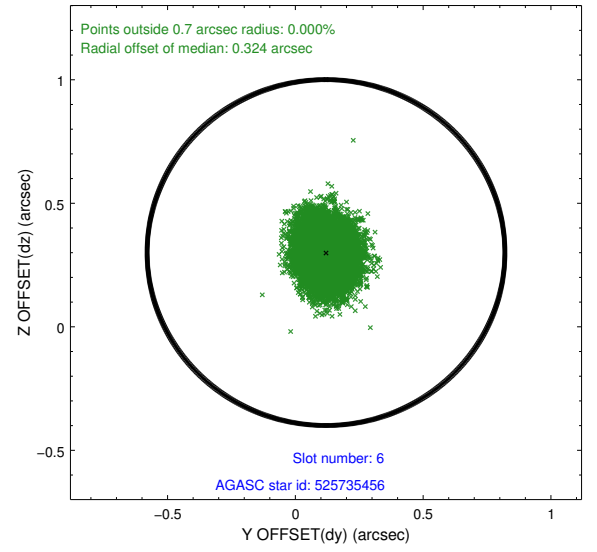
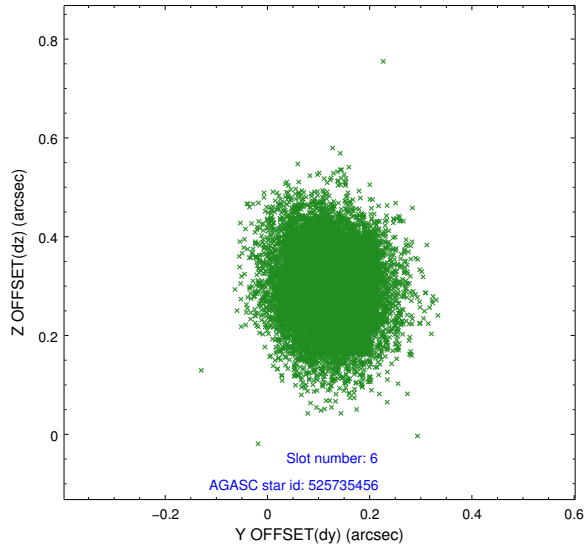
2.4.2 Slot 4



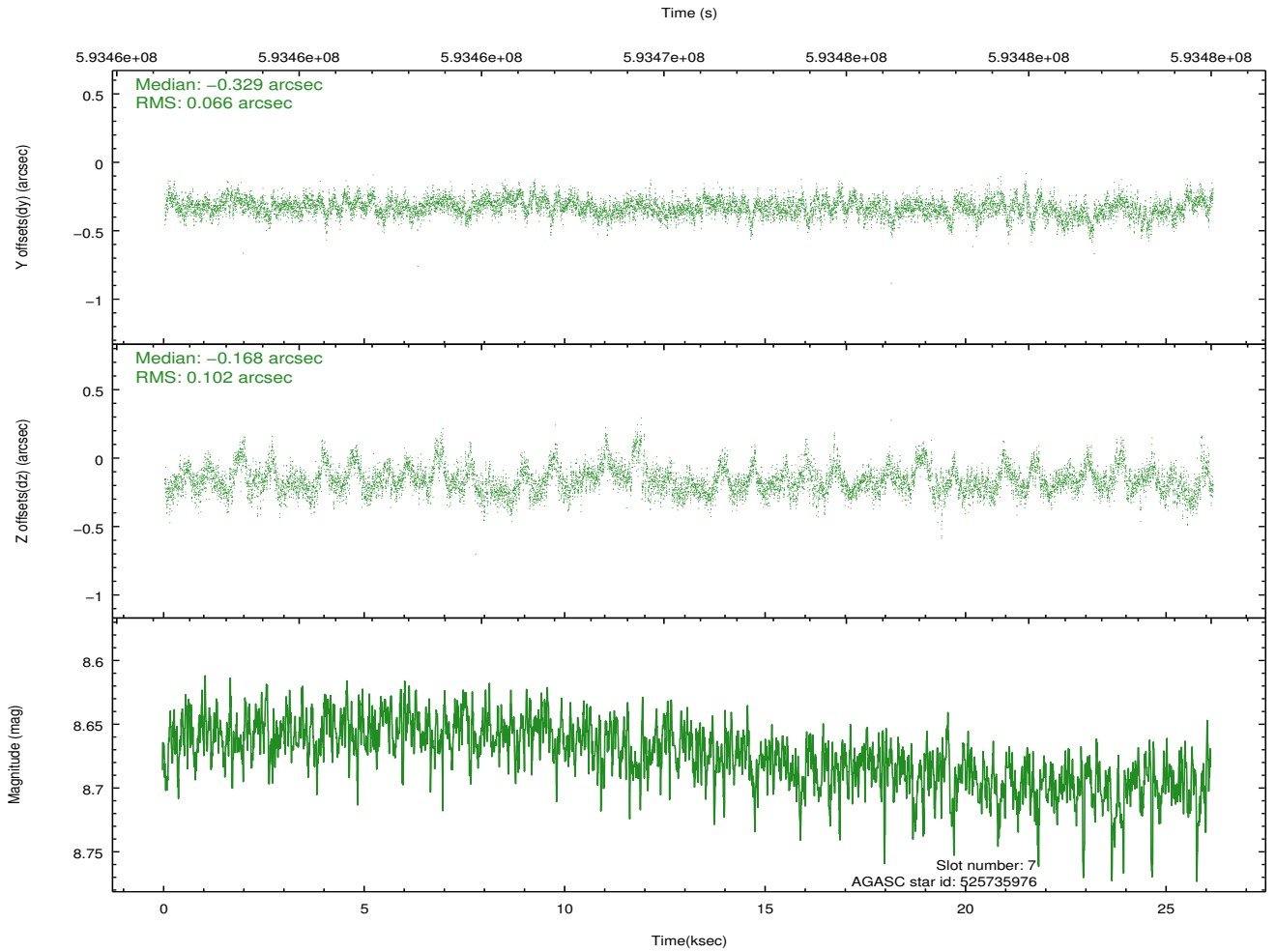
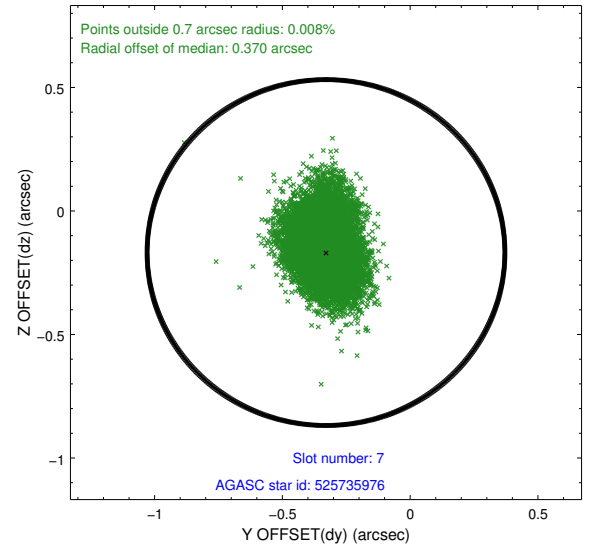
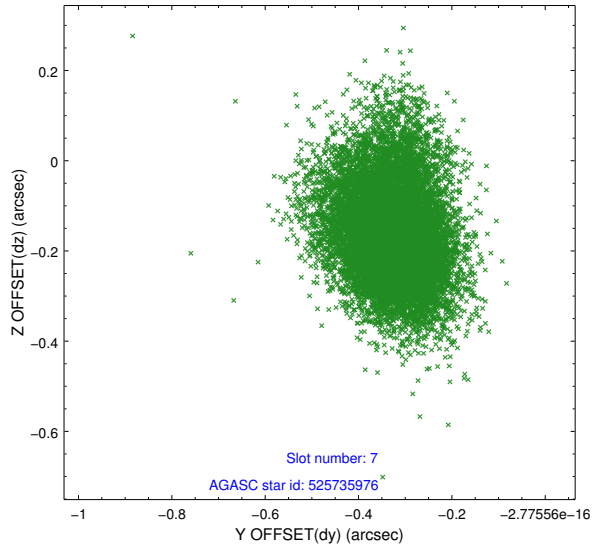
2.4.3 Slot 5



2.4.4 Slot 6

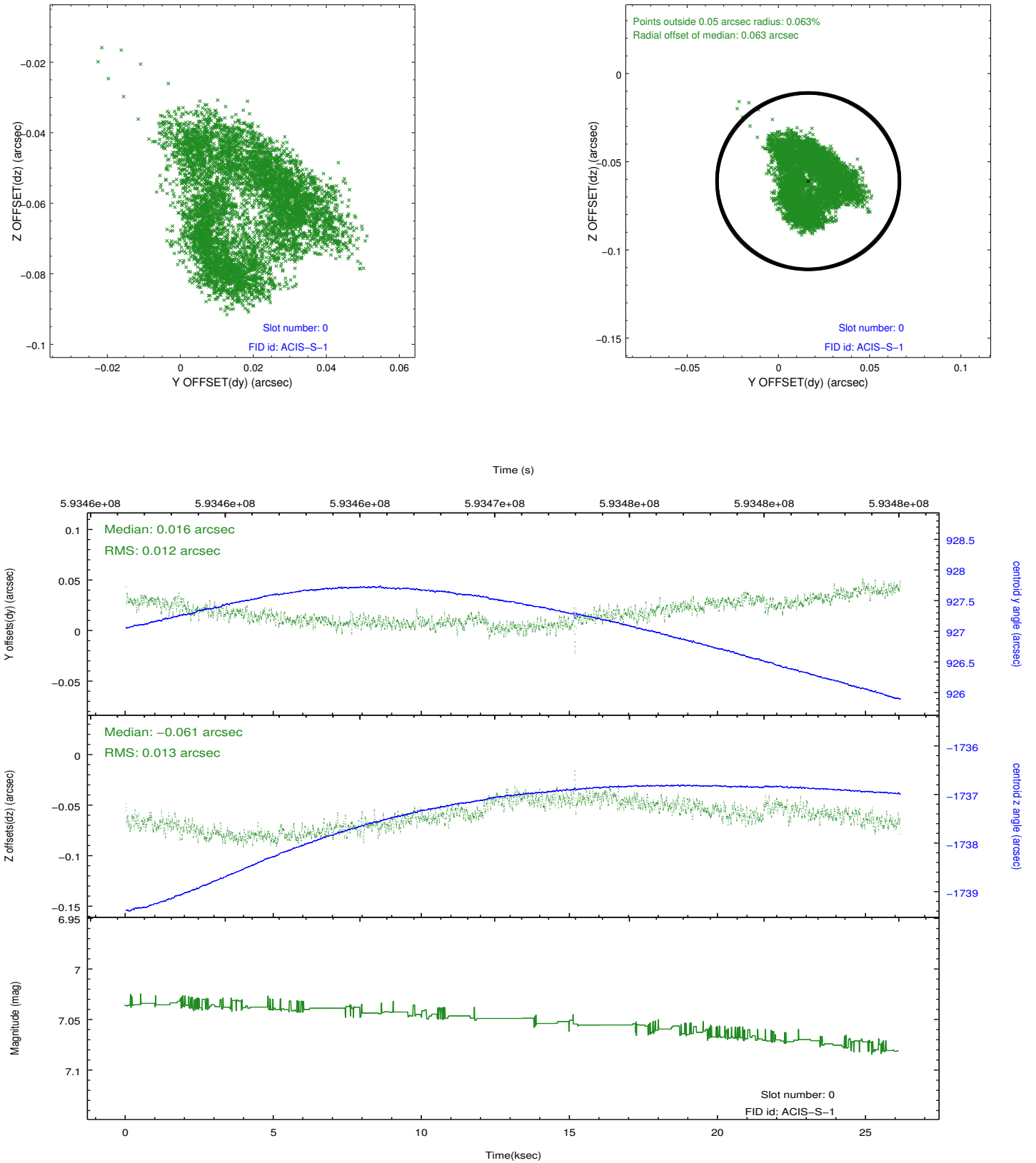


2.4.5 Slot 7

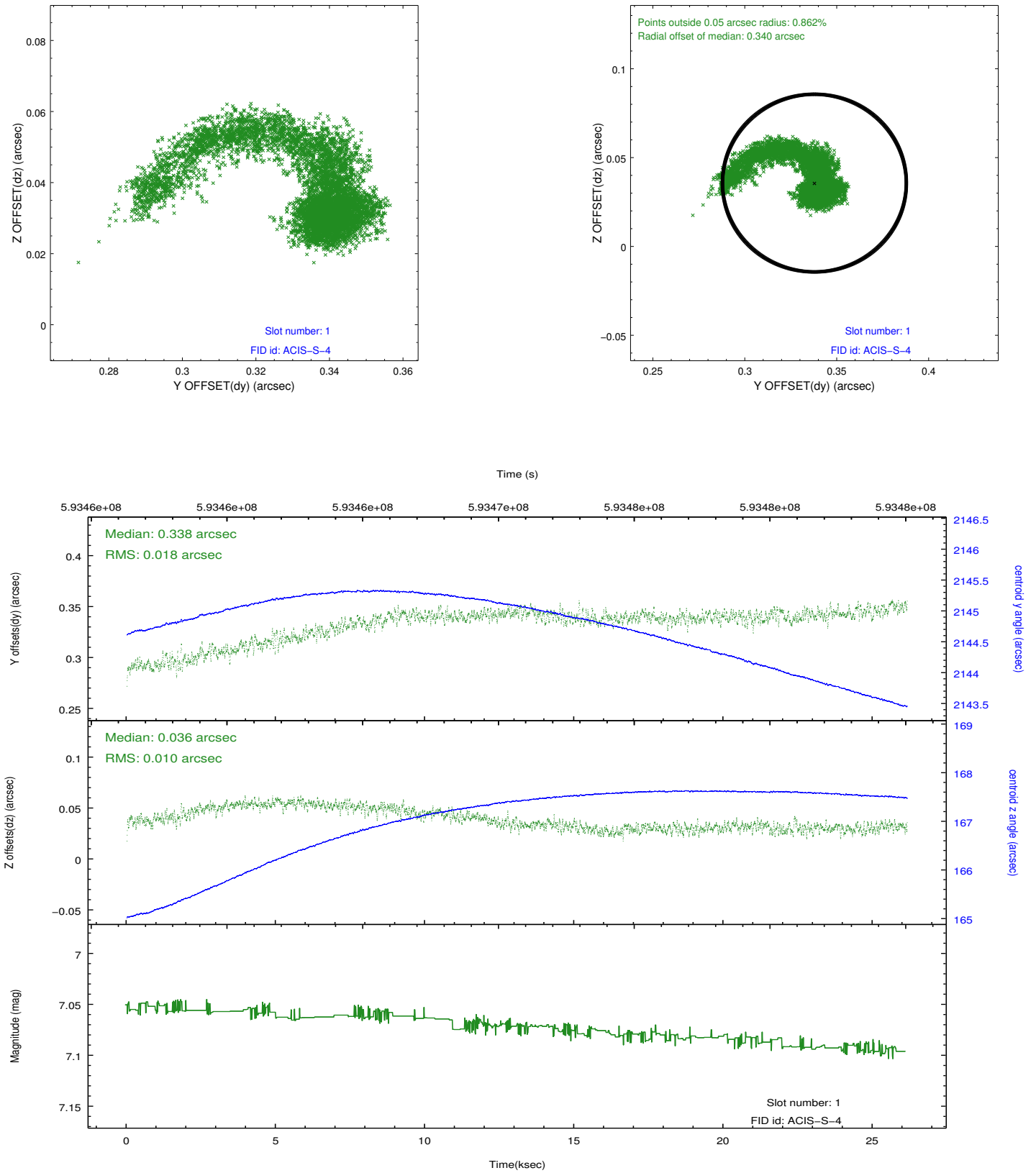


2.5 FID Slots

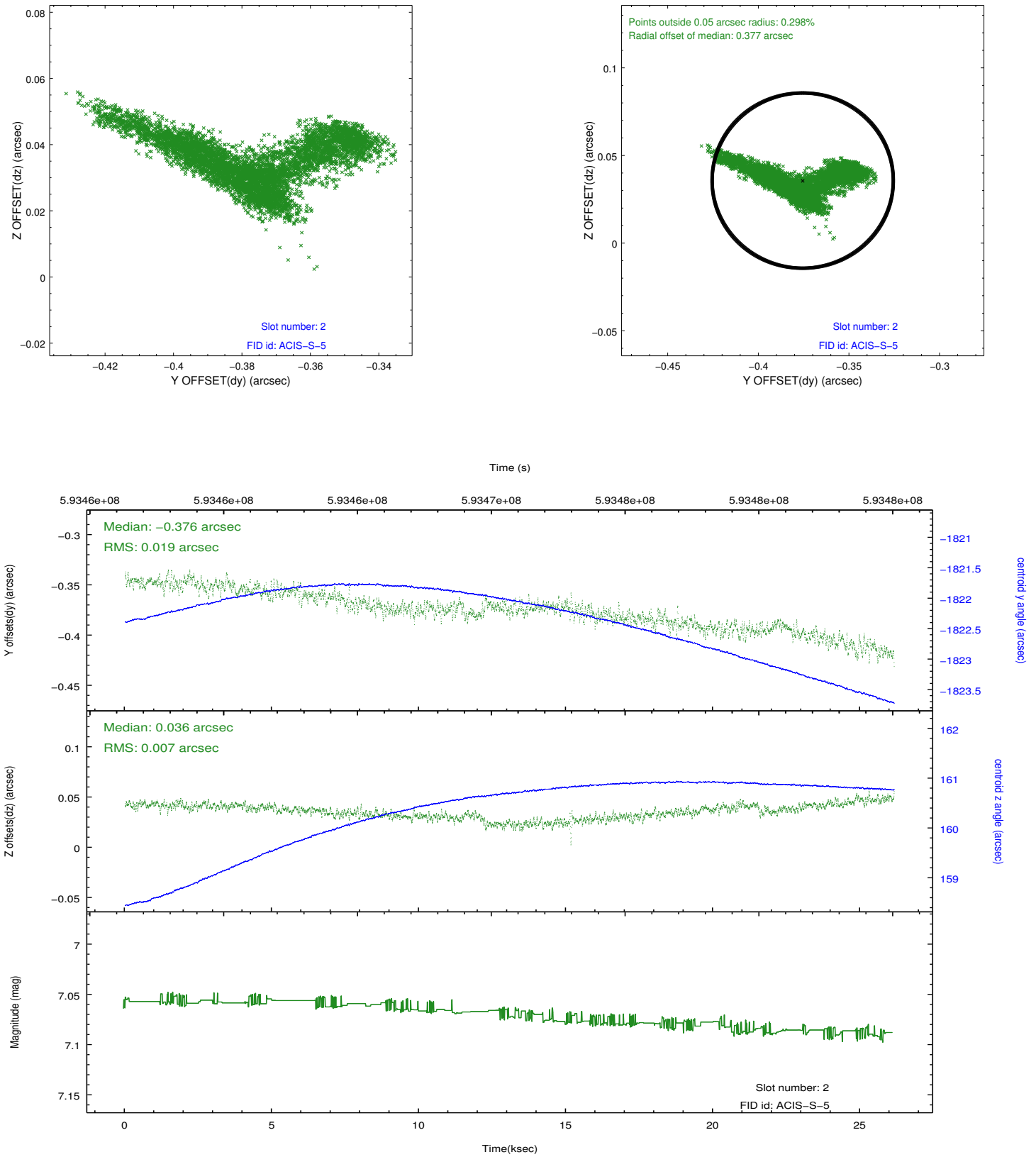
2.5.1 Slot 0



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)	2016.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.106

A.2 Comments