



1 General Comments

The activities scheduled for this week are those planned for calendar week 52 of year 2014, from 22/12/2014 to 29/12/2014 (DOYs 356 to 363).

Due to the Christmas holiday period, MIRAS commands for this week were generated and sent to the spacecraft at the same time that week 1 of year 2015.

The following routine activities were planned during this week (see Gantt chart on next page):

- X-band passes over ESAC and Svalbard.
- One NIR External Calibration on 24/12/2014 with ETO at 02:25:18 with the following calibration values.
Brightness Temperature=3.678271
RMS= 0.061907
Sun Elevation above MIRAS= 9.942475
RA= 359.398071
DEC= -19.250563
- One PMS offset including three Short Calibrations on day 25/12/2014 (orbit 27045) at 16:26:30.000z, 16:27:04.800 and 16:27:39.600.
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.



Operations Notes

FOS Team @ ESAC

Reported by: J. Fauste

Topic:

Date:

Issue:

FOS Report for week 52
from the 22/12/14 to the 29/12/14

1.0

	DEC-2014						
	Mon, 22-DEC-2014	Tue, 23-DEC-2014	Wed, 24-DEC-2014	Thu, 25-DEC-2014	Fri, 26-DEC-2014	Sat, 27-DEC-2014	Sun, 28-DEC-2014
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	[Black bars]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical tick marks]						
SBand_Visibility_SEQ	[Vertical tick marks]						
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical tick marks]						
External_Calibration_NIR_Full_OBOP_SEQ			[Blue bar]				
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ			[Green diamond]				
Int_LO_Phase_Cal_NoUnoise_FULL_EXT_SEQ			[Vertical bars]				
Disable_Cyclic_Function_SEQ			[Green diamond]		[Green diamond]		
Enable_Cyclic_Function_SEQ			[Green diamond]		[Green diamond]		
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ			[Green diamond]				
PMS_Offset_Calibration_Full_SEQ					[Vertical bar]		



3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

The list of out limits received during this week can be seen in Appendix-A.

5 On Board Anomalies

The following payload anomalies happened during this reporting period:

- A new Mass Memory Latch up in partition P0 on day 26/12/2014 at 21:12:21z. The anomaly recovery took place on day 29/12/2014 at 13:46z via CRF-468. The geolocation of the event was over South America with the following geographical coordinates:

Longitude= 305.775027

Latitude= -35.419082

6 Telemetry On Board Events in the period.

The following Ram single bit errors were received during this reporting week.

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARM	2014.359.18.37.37.422	210C9B8
RAM Single Bit Error	WARM	2014.359.18.52.56.633	2193574
RAM Single Bit Error	WARM	2014.362.20.43.33.975	21AFDF8

7 FOS System Status

All FOS systems behaved nominal during this period.

8 Data Reception from CNES

All SBand passes of the week were correctly received from CNES and successfully processed by the FOS PLPC system with the following exception:

- On 22/12/2014 and for GS pass AUS-22, CNES informed that it was not possible to download onboard telemetry data for that pass. Nevertheless telemetry data was downloaded during the following GS pass

9 X-Band Data Reception in PXMF

Not used during this period.



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10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOL's

The following Out of Limits were received at FOS PLPC system.

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2014.360.21.12.48.657	Hard-High	DMASME37	False	True	SDD LU Detected
2014.360.21.12.48.657	Hard-High	DMASME12	OFF	ON	LU Switch P0