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B3038

Modification MOD-S-99-4181 C-MUSIC INSTALLATION

GTP: GROUND TEST REPORT - EMI

Reference: GTR-B3038-99-336-B

Author (BT)	Approvals (QBA)
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REVISION HISTORY

Issue	Date	Comments
A	22/05/2020	Original issue
B	04/09/2020	Update according to EASA Comments. Refer to GTP-B3038-99-336 A with Panel 5 comments. Update of Input Data STA-B3038-99-345 to issue C according to EASA Comments.

SUMMARY

1 INTRODUCTION:

This document describes the procedure for non-interference test (EMI) to be accomplished between the C-MUSIC system and the CHOPIN modified Aircraft systems.

1.1 PURPOSE OF THE DOCUMENT

The CHOPIN modified Aircraft configuration is set as follow:

BDS MOD Special Equipment - EASA Certification.
SNT cabin VIP completion. (MOD-S-00-4147) – EASA Certification.

The purpose of these tests is to verify on ground the non-interference between:

C-MUSIC system upon the all CHOPIN modified Aircraft systems.
All CHOPIN modified Aircraft systems upon the C-MUSIC system.

This tests take in account the conclusion of the document:

STA-B3038-99-345 Electromagnetic Compatibility Analysis for B737-800 MSN 63990 & 64927

The result of these tests must demonstrate their compatibility.

1.2 AIRCRAFT EFFECTIVITY

This document is applicable on B737-800 MSN 63990 **or** 64927 (First aircraft)

1.3 PREREQUISITE FOR THE TEST:

This GTP EMI is required after embodiment of modifications of the MOD-S-00-4147 for BBj 737-800 CHOPIN MSN 63993 & 64927 and MOD-S-99-4181 Installation of C-MUSIC System.

1.4 INPUT DATA

STA-B3038-99-345 Issue C: Electromagnetic Compatibility Analysis for B737-800 MSN 63990 & 64927

1.5 REFERENCE DOCUMENTS:

SABENA TECHNICS reference documents :

GTP-B3038-21-138 CABIN TEMPERATURE CONTROL AND VCC COOLING.
GTP-B3038-21-158-A FORWARD CARGO POWER BAY COOLING.
GTOF-B3038-23-009 IFE & CMS.
GTOF-B3038-23-134 WIRELESS & COMMUNICATION.
GTOF-B3038-23-135 KA BANC SYSTEM.
GTOF-B3038-24-007 POWER system
GTOF-B3038-25-136 CABIN STANDARD ITEMS.
GTOF-B3038-26-146 CABIN SMOKE DETECTION SYSTEM.
GTOF-B3038-33-011 GENERAL LIGHT.
GTOF-B3038-33-049 EMERGENCY LIGHTS.

BOEING B737-800- AMM TASK or SUBTASK Reference documents:

Maintenance Manual: D633A101-BBJ.

ELBIT SYSTEMS Reference documents

C-MUSIC System Ground Acceptance Test Procedure for Chopin: 3375-0000-00ZC

2 TOOLS AND SUPPORT EQUIPMENT:

2.1 Tools provided by SNT:

DME ground test set IFR 6000 or equivalent.

VOR/ILS ground test set IFR4000 or equivalent.

ATC or IFF (mode S) ground test set IFR6000 or equivalent.

Headset 600 Ohms for test of CVR.

2.2 Tool provided by ELBIT SYSTEMS:

Test Laptop (standard laptop)

Full Dome Protective Cover

Mobile MSS (Missile Simulator)

Collimating Mirror

Stationary MSS

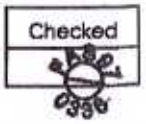
2.3 Specific personal protective equipment

Laser protection glasses adapted for the C-MUSIC POD's laser

Skin protection (clothes in cotton, nylon or polyester).

3 TEST CONDITION IN ACCORDANCE WITH THE LASER RISK:

Make sure that all no-necessary persons are more than 60 meters all around the C-MUSIC pod, refer to figure1.



Make sure that only necessary and approved ELBIT and SNT persons are present within the 60 meters area described above, refer to figure 1, fitted with the laser protection glasses and skin protection (clothes in cotton, nylon or polyester).

Make sure that ELBIT and SNT persons dedicated for this GTP, and not necessary in the 60 meters area described above, are <u>within</u> the aircraft.

Checked

Make sure the 60 meters area is clearly indicated on the ground.

Checked

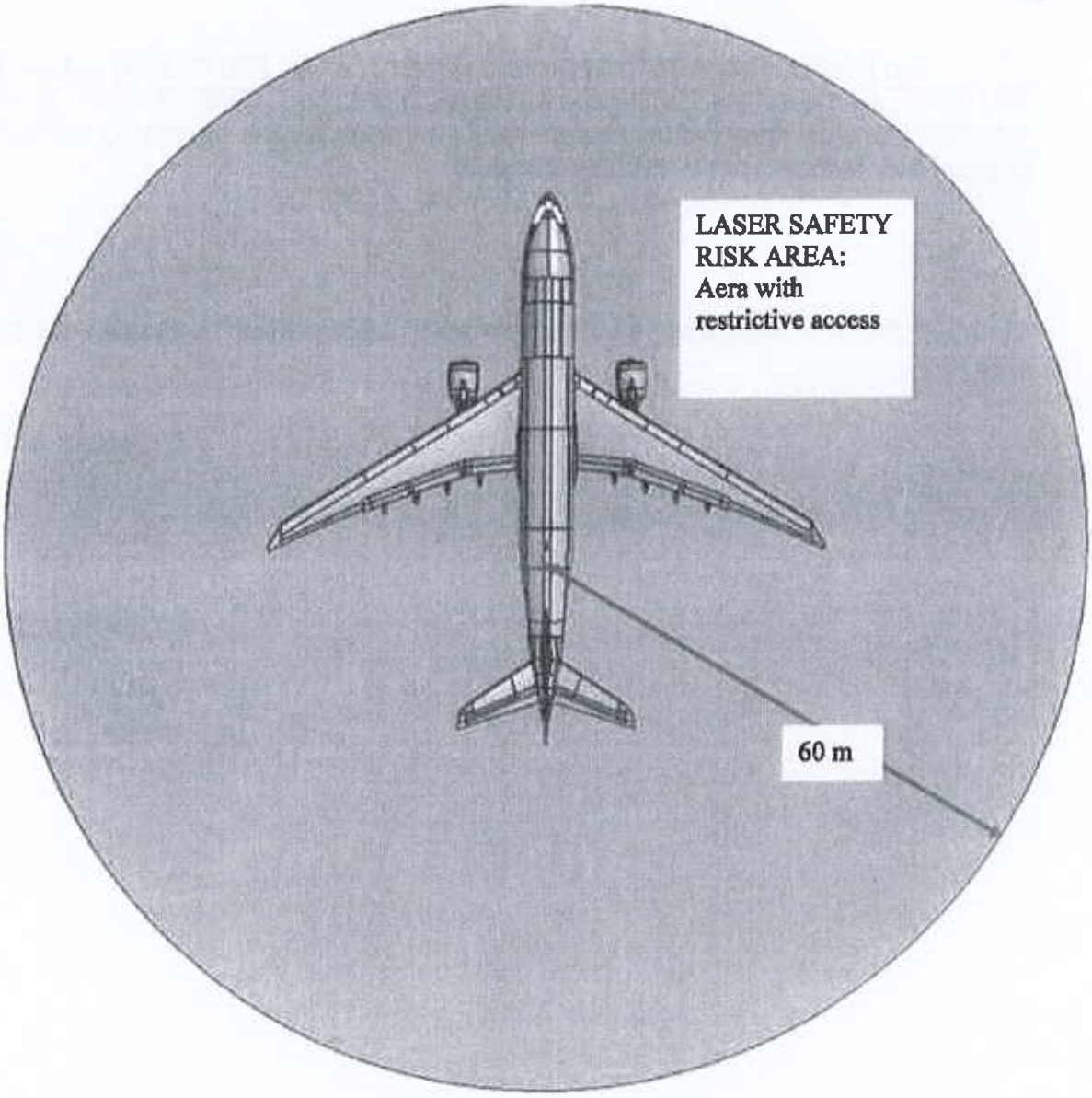


Figure 1 : Laser Safety Risk Area

During application of this GTP, no other Job card must be done on the A/C

Checked

The ELBIT & SNT safety officers must be present during application of the entire GTP

Checked

The informations AGS1(Air/Ground system1),AGS2 (Air/Ground system 2), RA1(Radio Altimeter 1) & RA2(Radio Altimeter 2) are used as safety inputs to lock LASER emission therefore their status change must be made by SNT approved technicians **and only** on the demand of the ELBIT responsible.

Checked

Take into account all the remarks "LASER RISK" described above in this paragraph.

SNT safety officer

ELBIT safety officer

P/O

4 PREPARATION FOR THE TEST:

Execute following instructions on this document, and fill it entering:
"P" for "passed"
"F" for "failed"
"N/A" for "not applicable"

The aim of this preparation is to place every system in working situation, in order to measure EMI/RFI possible disturbance. Thus it's important to check during all test phases (not only at the beginning of the tests) that every system is active and in use.

In case of EMI interference during any system test, switch OFF, one by one, the other systems operating during this test until the interference disappear to find the disturbing system (s).Once the disturbing system(s) is/are found, let it/them switched OFF, test again the system under test and check there is no other interference.

If some problems or unexpected events appear during test, note them in "paragraph SYNTHESIS - Notice of Operator COMMENT" at the end of this document.

4.1 GENERAL WARNING

Safety precautions described in the aircraft AMM tasks and the GTOFs performed during this test must be strictly respected.

These tests will be performed with no refuel/defuel or transfer operations.

Weather Radar Test:
No fuel tanker 60 m (196.85 ft.) from the aircraft nose while the weather radar is operating.
Make sure that all persons are more than 5 meters (16.4ft) from the antenna.

Flap System Test:
Put the safety devices and the warning notices in position before you start a task on or near:
- The flight controls
- The flight control surfaces
- Components that move.

Make sure that the ground safety-locks are in position on the landing gear.

Hydraulic Power Test:
Make sure that the travel ranges of the flight controls are clear.
Movement of flight controls can cause injury to persons and/or damage.

Communication and SATCOM Test:
The aircraft should be parked outside away from large structures and the antenna should have line-of-site to the satellite.

Safety Instructions for engine operation:
See AMM TASK 71-00-00-800-805-F00 and ECM-B3038-255.

Microwave radiations:
Never stand in front of the FTS front panel containing the antennas radomes during transmission or during self-test at a distance less than 1 meter.
Never transmit microwave radiation indoors. Indoor transmissions shall be through the direct coupling option.

4.2 A/C SYSTEM POWER ON:

Aircraft shall be parked according to §3: test condition, to take in account the laser risk

Checked

In the H03 stowage, to the panel "logic & security/maintenance", connect the test laptop to technician connector (9S003VC).

Checked

Energize AIRCRAFT by applying AMM Task 24-22-00-860-811.

Checked

Alignment of the Air Data Inertial Reference Systems by applying the AMM Task 34-21-00-820-801 (Alignment from the FMC CDU) or the AMM Task 34-21-00-820-802 (Alignment from the ISDU).

Checked

Make sure that all the basic aircraft systems are powered.

Checked

Make sure that all systems of the "CHOPIN - CABIN VIP COMPLETION" (MOD-S-00-4147) listed in the TWP below are powered:

TWP-S-21L0096 AIR COND & TEMP CONTROL MODIFICATION
TWP-S-23L0097 WIRELESS + COMMUNICATION
TWP-S-23L0098 IFE & CMS SYSTEM
TWP-S-23L0100 KA BAND SYSTEM INSTALLATION
TWP-S-24L0101 ELECTRICAL DISTRI & 220V
TWP-S-25L0102 CABIN STANDARD ITEMS INSTALLATION
TWP-S-25L0104 CABIN VIP ITEMS INSTALLATION
TWP-S-25L0105 IN SEAT POWER SUPPLY INSTALLATION
TWP-S-26L0107 SMOKE DETECTION SYSTEM
TWP-S-33L0108 GENERAL LIGHT
TWP-S-33L0109 EMERGENCY LIGHT
TWP-S-35L0110 OXYGEN SYSTEM MODIFICATION
TWP-S-38L0111 WATER & ANTI ICING

Checked

5 EMI TEST PLAN FOR C-MUSIC IN SOURCE MODE UPON A/C SYSTEMS

As described in the previous paragraph ("preparation for the test"), C-MUSIC must be activated (respecting preparation procedure), in SOURCE MODE and maintained active during the whole test phase, in order to measure their effect upon the A/C systems. We use the bench test, if necessary, for the avionics tests Navigation and Communication

Note: If a special procedure is required for a test, it will be detailed in it.

A test is considered to "PASS" when no adverse effect is identified due to the operation of the mentioned systems below.
In case of EMI interference, switch off the tested A/C systems and/or the C-MUSIC System and conduct again the test to be sure that interference is due to these ones.

In this chapter, the C-MUSIC system is operated as a source (internal laser emission).

5.1 C-MUSIC Set-up :

SNT technician action:
Verify that A/C is **not** in airborne condition:
Both AGS (AIR/GROUND SYSTEMS) 1and 2 are on Ground.

Checked

ELBIT technician action:
Get permission from the safety officer to remove the Dome Protective Cover

FOR BORESIGHT NOT NECESSARY. COVER STILL ON.

Checked

SNT technician action:
On the 9S002VU "master Control Panel" set toggle to "ARM" position

Checked

SNT technician action:
On the 9S004AF "C-MUSIC Control Display Unit" turn on the C-MUSIC by placing the rotary switch to the ON position and verify proper Power Up sequence is performed and transition to OPERATE mode.

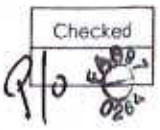
Checked

ELBIT technician action:
Verify via the VOC the C-MUSIC proper A/C interfaces status.

P/O

Checked

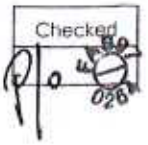
ELBIT technician action:
Set via the VOC the Turret Home Elevation to +40 deg.



ELBIT technician action:

For each aircraft system test (chapter 5), perform the following tasks as many times as necessary: perform via the VOC the Boresight command as many times as needed.

Nota: Boresight command can be execute once during 3 to 5 seconds in a 40 seconds cycle. After these 40 seconds a time of 30 seconds is necessary to have the Boresight command effective again.



5.2 ATA 21: AIR CONDITIONNING AND TEMPERATURE CONTROL

5.2.1 CABIN TEMPERATURE CONTROL AND VCC COOLING :(TWP-S-21L0096)

GTP-B3038-21-138 CABIN TEMPERATURE CONTROL AND VCC COOLING.

You can use the GTP to perform the EMI test, but it is not mandatory to perform all of this GTP task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate the CABIN TEMPERATURE CONTROL AND VCC COOLING sytem	CABIN TEMPERATURE MONITORING and VCC COOLING CONTROL: ➢ mustn't be perturbed by C-MUSIC system	P		

5.2.2 FORWARD CARGO POWER BAY COOLING: (TWP-S-21L0096)

GTP-B3038-21-158 FORWARD CARGO POWER BAY COOLING.

You can use the GTP to perform the EMI test, but it is not mandatory to perform all of this GTP task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate the FORWARD CARGO POWER BAY COOLING sytem	FORWARD CARGO POWER BAY COOLING OPERATION: ➢ mustn't be perturbed by C-MUSIC system	P		

5.3 ATA 22: AUTOFLIGHT

5.3.1 LAND TEST: (ATA 22-11)

AMM Task 22-11-00-700-801: Land Verify Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do LAND system test	LAND test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.3.2 YAW DAMPER SYSTEM: (ATA 22-23)

AMM Task 22-23-00-710-801: Yaw Damper System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do the YAW DAMPER Operational test	YAW DAMPER test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.3.3 AUTOTHROTTLE: (ATA 22-31)

AMM Task 22-31-00-710-801: Autothrottle System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do the AUTOTHROTTLE operational test	AUTOTHROTTLE test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4 ATA 23: COMMUNICATION

5.4.1 HF: (ATA 23-11)

AMM TASK 23-11-00-730-801: System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate HF1 in transmission and reception from a crew member's station on three frequencies in AM and three frequencies in SSB (USB and/or LSB) modes in the HF	HF transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct: no background noise, no interference	P		MR 10382

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	band Upper, middle and lower. **Upper AM:** 11,334 **Middle AM:** 6,543 **Lower AM:** 2,857 **Upper SSB:** 11,354 **Middle SSB:** 6,543 **Lower SSB:** 2,857	Transmission quality is correct: modulations is correct, no distortion	P		MR 10382
2	Operate HF2 in transmission and reception from a crew member's station on three frequencies in AM and three frequencies in SSB (USB and/or LSB) modes in the HF band Upper, middle and lower. **Upper AM:** 11,334 **Middle AM:** 6,543 **Lower AM:** 2,857 **Upper SSB:** 11,354 **Middle SSB:** 6,543 **Lower SSB:** 2,857	HF transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct: no background noise, no interference Transmission quality is correct: modulations is correct, no distortion	P		MR 10382

5.4.2 VHF: (ATA 23-12)

AMM TASK 23-12-00-730-801: System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate the VHF1 in transmission and reception from a crew member's station. The VHF1 range will be tested at the following frequencies: VHF1 : (25 kHz) 118.000 127.500 136.975 VHF1 : (8.33 kHz) 118.010 127.560 136.965	VHF1 transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct no background noise no interference. Transmission quality: modulation is correct, no distortion. Speech quality.	P		MR 10382
2	Operate the VHF2 in transmission and reception from a crew member's station. The VHF2 range will be tested at the following frequencies: VHF2 : (25 kHz) 118.000 127.500 136.975 VHF2 : (8.33 kHz) 118.010 127.560 136.965	VHF2 transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct no background noise no interference. Transmission quality: modulation is correct, no distortion. Speech quality.	P		MR 10382
3	Operate the VHF3 in transmission and reception from a crew member's station. The VHF3 range will be tested at the following frequencies: VHF3 : (25 kHz) 118.000 127.500 136.975 VHF3 : (8.33 kHz) 118.010 127.560 136.965	VHF3 transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct no background noise no interference. Transmission quality: modulation is correct, no distortion. Speech quality.	P		MR 10382

5.4.3 SATCOM IRRIDIUM Test – If SB 737-23-1707 applied: (ATA 23-15)

AMM TASK 23-15-40-710-801: IRIDIUM SATCOM System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

Note: SATCOM IRIDIUM audio channels are selected with the **MSN 1/2** keys on each ACP.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	On the NAV/Comm Panel (On pedestal P8), set the 2 switches 1-MSN-2 to **SATCOM** position. Operate the IRIDIUM SATCOM system. From a crew member's station make a voice communication:	The voice transmission and reception are not altered by the C-MUSIC system. ***Special attention required for:*** Reception quality is correct no background noise no interference. Transmission quality: modulation is correct, no distortion. Speech quality.	P		

5.4.4 ACARS SYSTEM: (ATA 23-27)

AMM TASK 23-27-00-730-803-004: ACARS – System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	Perform a VHF ACARS Link test:	VHF ACARS Link Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.5 SELCAL SystemTest: (ATA 23-28)

AMM TASK 23-28-00-700-801: SELCAL System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	Perform a SELCAL test:	SELCAL Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.6 PUBLIC ADDRESS SYSTEM :(ATA 23-31 – TWP-S-26L0102)

GTOF-B3038-25-136: CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform a PUBLIC ADDRESS announcement:	PUBLIC ADDRESS Announcement: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.7 SERVICE INTERPHONE SYSTEM: (ATA 23 – 41)

AMM TASK 23-41-00-710-801: Service Interphone - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between the flight crew and the ground:	SERVICE INTERPHONE COMMUNICATION with the ground: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.8 FLIGHT CREW CALL CABIN INTERPHONE: (ATA 23 – 42 –TWP-S-26L0102)

GTOF-B3038-25-136: CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between the flight crew and the cabin:	SERVICE INTERPHONE COMMUNICATION with the cabin: ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.9 FLIGHT INTERPHONE SYSTEM :(ATA 23-51)

AMM TASK 23-51-00-710-801: Flight Interphone System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between each of the flight crew stations:	FLIGHT INTERPHONE COMMUNICATION : ➢ mustn't be perturbed by C-MUSIC system	P		

5.4.10 COCKPIT VOICE RECORDER :(ATA 23-71)

AMM TASK 23-71-00-710-801: Voice Recorder System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the COCKPIT VOICE RECORDER system test	COCKPIT VOICE RECORDER Test : ➢ mustn't be perturbed by C-MUSIC system	P		MR A333

5.4.11 WIRELESS + COMMUNICATION: (TWP-S-23L0097) and KA BAND SYSTEM COMMUNICATION: (TWP-S-23L0100)

GTOF-B3038-23-134 WIRELESS + COMMUNICATION – POWER ON & FUNCTIONAL

GTOF-B3038-23-135 KA BAND SYSTEM – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the WIRELESS + COMMUNICATION system test During this test , perform a KA SATCOM communication	KA SATCOM COMMUNICATION : ➢ mustn't be perturbed by C-MUSIC system	P		MR 10382

5.4.12 IFE+CMS SYSTEM: (TWP-S-23L0098)

GTOF-B3038-23-009 IFE & CMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	After the IFE + CMS power on:	Check IFE + CMS systems: ➢ mustn't be perturbed by C-MUSIC system	P		FAS 0355

5.4.13 FLIGHT DECK ENTRY VIDEO SURVEILLANCE SYSTEM: (ATA 23-75)

AMM TASK 23-75-00-730-804: Flight Deck Entry Video Surveillance System - System Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the FLIGHT DECK ENTRY VIDEO SURVEILLANCE system test	FLIGHT DECK ENTRY VIDEO Test: ➢ mustn't be perturbed by C-MUSIC system	P		FAS 0355

5.4.14 VIDEO MONITORING: (TWP-S-25L0102)

GTOF-B3038-25-136 CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the VIDEO MONITORING system test	VIDEO MONITORING Test: ➢ mustn't be perturbed by C-MUSIC system	✓		

5.5 ATA 26: FIRE PROTECTION

5.5.1 FIRE AND OVERHEAT DETECTION :(ATA 26-10)

AMM TASK 26-10-00-710-801: Fire and Overheat Detection System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the FIRE AND OVERHEAT DETECTION system test	FIRE AND OVERHEAT DETECTION Test: ➢ mustn't be perturbed by C-MUSIC system	✓		

5.5.2 ENGINE FIRE DETECTION: (ATA 26-11)

AMM TASK 26-11-00-710-801: Engine Fire Detection Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the ENGINE FIRE DETECTION system test	ENGINE FIRE DETECTION Test: ➢ mustn't be perturbed by C-MUSIC system	✓		

5.5.3 APU FIRE DETECTION: (ATA 26-15)

AMM TASK 26-15-00-710-801: APU Fire Detection - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the APU FIRE DETECTION system test	APU FIRE DETECTION Test: ➢ mustn't be perturbed by C-MUSIC system	✓		

5.5.4 LAVATORY SMOKE DETECTION: (TWP-S-26L0107)

GTOF-B3038-26-146 CABIN SMOKE DETECTION SYSTEM – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SMOKE DETECTION Operational test	SMOKE DETECTION Operational Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.5.5 CARGO BAY SMOKE DETECTION :(ATA 26-16)

AMM TASK 26-16-00-710-801: Cargo Bay Smoke Detection - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the CARGO BAY SMOKE DETECTION system test	SMOKE DETECTION Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.5.6 WHEEL WELL, WING AND LOWER AFT BODDY OVERHEAT DETECTION SYSTEM :(ATA 26-18)

AMM TASK 26-18-00-710-801: Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the OVERHEAT DETECTION system test	OVERHEAT DETECTION Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6 ATA 27: FLIGHT CONTROL

5.6.1 AILERON SYSTEM: (ATA 27-11)

AMM TASK 27-11-00-710-801: Aileron - Response (Operational) Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn the aileron control wheel through full travel in each direction from the neutral position.	AILERON MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.2 RUDDER TRIM CONTROL SYSTEM: (ATA 27-21)

AMM TASK 27-21-00-700-819-001: Rudder Trim System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use RUDDER TRIM:	RUDDER TRIM MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.3 ELEVATOR AND TAB CONTROL SYSTEM: (ATAT 27-31)

AMM TASK 27-31-00-710-801: Elevator and Elevator Trim Control System - Operational Test

AMM TASK 27-31-00-700-815: Elevator Tab Control System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use the ELEVATOR TRIM TAB:	ELEVATOR TRIM TAB MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.4 STALL WARNING SYSTEM: (ATA 27-32)

AMM TASK 27-32-00-710-801: Stall Warning System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the STALL WARNING system test	STALL WARNING Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.5 HORIZONTAL STABILIZER TRIM CONTROL SYSTEM: (ATA 27-41)

AMM TASK 27-41-00-700-803: Stabilizer Electric Trim System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use the HORIZONTAL STABILIZER TRIM:	HORIZONTAL STABILIZER TRIM MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.6 TRAILING EDGE FLAP SYSTEM: (ATA 27-51)

AMM TASK 27-51-00-710-801: Trailing Edge Flap System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the TRAILING EDGE FLAP system test	FLAP MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.7 SPOILER CONTROL SYSTEM: (ATA 27-61)

AMM TASK 27-61-00-710-801: Spoiler Control System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SPOILER CONTROL system test	SPOILER MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.8 LEADING EDGE FLAP AND SLAT CONTROL SYSTEM:(ATA 27-81)

AMM TASK 27-81-00-860-802: Leading Edge Flap and Slat System Operation with Alternate Control

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the LEADING EDGE FLAP AND SLAT CONTROL system test	FLAP AND SLAT MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.6.9 SPEED BRAKE CONTROL SYSTEM: (ATA 27-62)

AMM TASK 27-62-00-710-801: Speed Brake Control System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SPEED BRAKE CONTROL system test	SPEED BRAKE MOVEMENT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.7 ATA 28: FUEL

5.7.1 ENGINE FUEL FEED SYSTEM: (ATA 28-22)

AMM TASK 28-22-00-730-801: Engine Fuel Feed Pumps - Functional Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the FUEL PUMPS of the tank 1, tank 2 and the center tank:	FUEL PUMP: ➢ mustn't be perturbed by C-MUSIC system	P		

5.8 ATA 29: HYDRAULIC

5.8.1 ELECTRIC MOTOR DRIVEN PUMP: (ATA 29-11)

AMM TASK 29-11-21-700-801: Electric Motor-Driven Pump (EMDP) Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the ELEC 1 and the ELEC 2 HYD PUMP:	HYD PUMP: ➢ mustn't be perturbed by C-MUSIC system	P		

5.9 ATA 30: ICE AND RAIN PROTECTION

5.9.1 AIR DATA SENSOR ANTI-ICING :(ATA 30-31)

AMM TASK 30-31-00-750-801: AUTO Air Data Sensor heating - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the AUTO AIR DATA SENSOR HEATING system test	SENSOR HEATING: ➢ mustn't be perturbed by C-MUSIC system	P		

5.9.2 WINDOW HEAT: (ATA 30-41)

AMM TASK 30-41-00-710-801: Window Heat System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the WINDOW HEATING system:	WINDOW HEATING: ➢ mustn't be perturbed by C-MUSIC system	P		

5.10 ATA 31: INDICATING/RECORDING SYSTEMS

5.10.1 AURAL WARNING SYSTEM: (ATA 31-51)

AMM TASK 31-51-00-740-801: Aural Warning Module BITE Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the AURAL WARNING MODULE BITE test	AURAL WARNING BITE test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.11 ATA 33: LIGHTING

5.11.1 GENERAL LIGHT: (TWP-S-33L0108)

GTOF-B3038-33-011: GENERAL LIGHT – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn On the GENERAL LIGHT.	GENERAL LIGHT: ➢ mustn't be perturbed by C-MUSIC system	P		

5.11.2 EMERGENCY LIGHTS: (TWP-S-33L109)

GTOF-B3038-33-049 CHAPTER 4: FUNCTIONAL TEST PROCEDURE

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn ON the EMERGENCY LIGHTS.	EMERGENCY LIGHTS: ➢ mustn't be perturbed by C-MUSIC system	P		

5.11.3 EXTERIOR LIGHTS

AMM TASK 33-32-00-710-801: Wheel Well Lights - Operational Test

AMM TASK 33-41-00-710-801: Wing Illumination Light - Operational Test

AMM TASK 33-42-01-700-801: Fixed Landing Light Operational Test

AMM SUBTASK 33-42-02-710-001 Retractable Landing Light N/A

AMM TASK 33-43-10-710-801: Winglet Position Light Operational Test

AMM TASK 33-44-00-710-801: Anti-Collision Lights Operational Test

AMM SUBTASK 33-45-01-710-001: Taxi Lights Control

AMM SUBTASK 33-45-02-710-002: Runway Turnoff Lights

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn on **each** of the EXTERIOR LIGHT listed above.	EXTERIOR light: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12 ATA 34: NAVIGATION

5.12.1 AIR DATA INERTIAL REFERENCE SYSTEM: (ATA 34-21)

AMM TASK 34-21-00-710-801: Air Data Inertial Reference System - Operational Test

AMM TASK 34-21-00-730-801: Inertial Reference - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Check the AIR DATA information are available on the Captain and F/O instrument panel:	AIR DATA information are available: ➢ mustn't be perturbed by C-MUSIC system	P		
2	Check the INERTIAL ATTITUDE information are available on the Captain and F/O instrument panel:	ATTITUDE information are available : ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.2 ILS SYSTEM: (ATA 34-31)

AMM TASK 34-31-00-730-801: Instrument Landing System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Ramp tester on LOC frequency with minimum detectable signal input at 6 different frequency to the **LOC RECEIVER n°1.** Freq. 1: 111,95 MHz Freq. 2: 111,10 MHz Freq. 3: 110,50 MHz Freq. 4: 109,90 MHz Freq. 5: 109,15 MHz Freq. 6: 108,10 MHz	LOC RECEIVER n°1 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
2	Ramp tester on LOC frequency with minimum detectable signal input at 6 different frequency to the **LOC RECEIVER n°2.** Freq. 1: 111,55 MHz Freq. 2: 111,10 MHz Freq. 3: 110,50 MHz Freq. 4: 109,90 MHz Freq. 5: 108,15 MHz Freq. 6: 108,10 MHz	LOC RECEIVER n°2 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		
3	Ramp tester on GLIDE frequency with minimum detectable signal input at 6 different frequency to the **GLIDE SLOPE RECEIVER n°1.** Freq. 1: 335 MHz Freq. 2: 333,95 MHz Freq. 3: 333,05 MHz Freq. 4: 332 MHz Freq. 5: 330,5 MHz Freq. 6: 329 MHz	GLIDE RECEIVER n°1 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		
4	Ramp tester on GLIDE frequency with minimum detectable signal input at 6 different frequency to the **GLIDE SLOPE RECEIVER n°2.** Freq. 1: 335 MHz Freq. 2: 333,95 MHz Freq. 3: 333,05 MHz Freq. 4: 332 MHz Freq. 5: 330,5 MHz Freq. 6: 329 MHz	GLIDE RECEIVER n°2 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		

5.12.3 MARKER BEACON SYSTEM: (ATA 34-32)

AMM TASK 34-32-00-730-801: Marker Beacon System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With ramp tester operate the MARKER:	MARKER: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.4 LOW RANGE RADIO ALTIMETER (LRRA) SYSTEM: (ATA 34-33)

AMM TASK 34-33-00-710-801: Low Range Radio Altimeter (LRRA) System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the LRRA system test	LRRA: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.5 HEAD UP DISPLAY SYSTEM (HUD): (ATA 34-36) N/A SYS. NOT INSTALLED

AMM TASK 34-36-00-710-801 or AMM TASK 34-36-00-710-802: HUD Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With the HUD to ON.	HUD Information are available: ➢ mustn't be perturbed by C-MUSIC system	N	N/A	

5.12.6 WEATHER RADAR (WXR) SYSTEM: (ATA 34-43)

AMM TASK 34-43-00-802-001: Weather Radar (WXR) System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With the WEATHER RADAR to ON	WEATHER RADAR information are available: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.7 GPWS SYSTEM: (ATA 34-46)

AMM TASK 34-46-00-710-804-002: Ground Proximity Warning System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the GPWS system test	GPWS Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.8 VOR SYSTEM: (ATA 34-51)

AMM TASK 34-51-00-730-801: VOR System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Ramp tester on VOR frequency with minimum detectable signal input at 6 different frequency to the **VOR RECEIVER n°1.** Freq. 1: 108,00 MHz Freq. 2: 112,00 MHz Freq. 3: 117,00 MHz Freq. 4: 111,00 MHz Freq. 5: 113,00 MHz Freq. 6: 107,00 MHz	VOR RECEIVER n°1 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		MR 10382
2	Ramp tester on VOR frequency with minimum detectable signal input at 6 different frequency to the **VOR RECEIVER n°2.** Freq. 1: 108,00 MHz Freq. 2: 110,00 MHz Freq. 3: 112,00 MHz Freq. 4: 114,00 MHz Freq. 5: 116,00 MHz Freq. 6: 117,00 MHz	VOR RECEIVER n°2 reception is not altered by the C-MUSIC system. ***Special attention required for:*** No flicker, display instability, intermittent warning is noticed (+ 3 dbm)	P		MR 10382

5.12.9 TCAS SYSTEM: (ATA 34-45)

AMM TASK 34-45-00-710-801: TCAS - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform TCAS operational test.	TCAS Test: ▸ mustn't be perturbed by C-MUSIC system	P		MR 10047

5.12.10 IFF SYSTEM: (ATA 34-53)

IFF SYSTEM test will be performed in Modes 3, C, S, ~~ELS~~ MS; military Modes 4 and 5 are unselected.

Refer to the corresponding BDS AMM TASK: IFF System Test.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the IFF n°1 system test with the ramp tester.	IFF n°1 Test: ➢ mustn't be perturbed by C-MUSIC system	P		
2	Perform the IFF n°2 system test with the ramp tester.	IFF n°2 Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.11 DME SYSTEM: (ATA 34-55)

AMM TASK 34-55-00-730-801: DME System - System Test (With the IFR 6000 Test Set)

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the DME n°1 system test with the ramp tester.	DME n°1 Test: ➢ mustn't be perturbed by C-MUSIC system	P		
2	Perform the DME n°2 system test with the ramp tester.	DME n°2 Test: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.12 ADF SYSTEM: (ATA 34-57)

AMM TASK 34-57-00-730-802: Automatic Direction Finder System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Tune ADF n°1 to a local valid station	ADF n°1: ➢ mustn't be perturbed by C-MUSIC system	P		
2	Tune ADF n° 2 to a local valid station	ADF n°2: ➢ mustn't be perturbed by C-MUSIC system	P		

5.12.13 GPS SYSTEM: (ATA 34-58)

AMM TASK 34-58-00-730-802: Global Positioning System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Check if GPS L indicate the correct position on the CDU	GPS L Position: ➢ mustn't be perturbed by C-MUSIC system	P		
2	Check if GPS R indicate the correct position on the CDU	GPS R Position: ➢ mustn't be perturbed by C-MUSIC system	P		

5.13 ATA 35: OXYGEN SYSTEM

5.13.1 CREW OXYGEN: (ATA 35-12)

AMM TASK 35-12-00-700-801: Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box)

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the test of the microphone inside each mask.	The oxygen flow is heart on the interphone speaker: ➢ mustn't be perturbed by C-MUSIC system	P		

5.14 ATA 46: INFORMATION SYSTEMS

5.14.1 CREW INFORMATION SYSTEM: (ATA 46-11) N/A. SYSTEM NOT INSTALLED

AMM TASK 46-11-00-730-801: Electronic Flight Bag - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Make sure that the ELECTRONIC FLIGHT BAG are operational (captain and first officer):	Captain and first officer ELECTRONIC FLIGHT BAG: ➢ mustn't be perturbed by C-MUSIC system			

5.15 ATA 49: APU

5.15.1 APU START

Start the APU by applying:

AMM TASK 49-11-00-860-801: APU Strating and Operation

Checked

Energise the aircraft with APU generator by applying:

AMM TASK 24-22-00-860-815: Supply APU Generator Power

Checked

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With APU running check all APU parameters:	APU parameters: ➢ mustn't be perturbed by C-MUSIC system	P		

5.16 ATA 71: ENGINE

5.16.1 ENGINE START

Start the engines by applying:

AMM TASK 71-00-00-800-808-F00: Start the Engine Procedure (Normal start)

Checked

Energise the aircraft with IDG by applying:

AMM TASK 24-22-00-860-817: Supply IDG Power

Checked

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With engine running check all engine parameters:	Engine parameters: ➢ mustn't be perturbed by C-MUSIC system	P		

5.16.2 ENGINE STOP

Energise the aircraft with external Power by applying:

AMM 24-22-00-860-813: Supply External Power

Checked

Stop the engines by applying:

AMM TASK 71-00-00-700-819-F00: Stop the Engine Procedure (Usual Engine Stop)

Checkd

5.16.3 APU SHUTDOWN

Stop the APU by applying:

AMM TASK 49-11-00-860-802: APU Usual Shutdown

Checkd

6 EMI TEST PLAN FOR A/C SYSTEMS UPON C-MUSIC IN RECEIVER MODE:

As described in the previous paragraph ("preparation for the test"), A/C systems must be activated (respecting preparation procedure), and maintained active during the whole test phase, in order to measure their effect upon C-MUSIC in RECEIVER MODE. We use the bench test, if necessary, for all the avionics tests Navigation – Communication

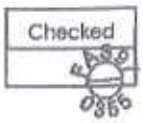
Note: If a special procedure is required for a test, it will be detailed in it.

A test is considered to "PASS" when no adverse effect is identified due to the operation of the mentioned systems below.
In case of EMI interference, switch off the tested A/C systems and/or the C-MUSIC System and conduct again the test to be sure that interference is due to these ones.

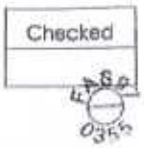
In this chapter, the C-MUSIC system is operated as a receptor (no laser emission).

6.1 C-MUSIC Set-up :

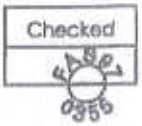
SNT technician action:
Verify that A/C is **not** in airborne condition:
Both AGS (AIR/GROUND SYSTEMS) 1and 2 are on Ground.



ELBIT technician action:
Get permission from the safety officer to remove the Dome Protective Cover

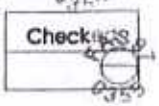


SNT technician action:
On the 9S002VU "master Control Panel" set toggle to "ARM" position

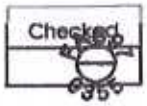


SNT technician action:
On the 9S004AF "C-MUSIC Control Display Unit" turn on the C-MUSIC by placing the rotary switch to the ON position and verify proper Power Up sequence is performed and transition to OPERATE mode.

ELBIT technician action:
Set in MWS Monitor "*WOW False".



ELBIT technician action:
Verify via the VOC the C-MUSIC proper A/C interfaces stastus.



6.2 C-MUSIC check description:

For each following A/C system test, in this paragraph, repeat the following tasks (as many times as necessary) to check the no-perturbation of the C-MUSIC:

SNT technician action:
Verify the proper operation of C-CDU.

ELBIT technician action:
Set the missile simulator (MSS and Collimator) and simulate threat.

ELBIT technician action:
Verify via the VOC the C-MUSIC proper operation; a transition to Jamming Mode, stability of beam direction.

ELBIT technician action:
Fill the **appendix A table** with PASS/FAIL and sign the document.

6.3 C-MUSIC check during engine run-up:

For ATA 71 A/C system test (engine run-up), perform the following tasks (as many times as necessary) to check the no-perturbation of the C-MUSIC:

SNT technician action:
Verify the proper operation of C-CDU.

ELBIT technician action:
Verify via the VOC the C-MUSIC proper A/C interfaces stastus.

ELBIT technician action:
Verify via the VOC the C-MUSIC proper operation and laser is not in ARM mode (no change) on the test laptop.

ELBIT technician action:
Fill the **appendix A table** with PASS/FAIL and sign the document.

6.4 ATA 21: AIR CONDITIONNING AND TEMPERATURE CONTROL

6.4.1 CABIN TEMPERATURE CONTROL AND VCC COOLING :(TWP-S-21L0096)

GTP-B3038-21-138 CABIN TEMPERATURE CONTROL AND VCC COOLING.

You can use the GTP to perform the EMI test, but it is not mandatory to perform all of this GTP task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate the CABIN TEMPERATURE CONTROL AND VCC COOLING sytem	During the CABIN TEMPERATURE MONITORING and VCC COOLING CONTROL: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		EASA 0355

6.4.2 FORWARD CARGO POWER BAY COOLING: (TWP-S-21L0096)

GTP-B3038-21-158 FORWARD CARGO POWER BAY COOLING.

You can use the GTP to perform the EMI test, but it is not mandatory to perform all of this GTP task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate the FORWARD CARGO POWER BAY COOLING sytem	During the FORWARD CARGO POWER BAY COOLING OPERATION: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		EASA 0355

6.5 ATA 22: AUTOFLIGHT

6.5.1 LAND TEST: (ATA 22-11)

AMM Task 22-11-00-700-801: Land Verify Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do LAND system test	During the LAND test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		EASA 0355

6.5.2 YAW DAMPER SYSTEM: (ATA 23-22)

AMM Task 22-23-00-710-801: Yaw Damper System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do the YAW DAMPER Operational test	During the YAW DAMPER test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		EASA 0336

6.5.3 AUTOTHROTTLE: (ATA 22-31)

AMM Task 22-31-00-710-801: Autothrottle System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do the AUTOTHROTTLE operational test	During the AUTOTHROTTLE test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		EASA 0336

6.6 ATA 23: COMMUNICATION

6.6.1 HF: (ATA 23-11)

AMM TASK 23-11-00-730-801: System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Operate HF1 in transmission from a crew member's station on three frequencies in AM and three frequencies in SSB (USB and/or LSB) modes in the HF band Upper, middle and lower. **Upper AM:** 11,354 **Middle AM:** 5,583 **Lower AM:** 2,857 **Upper SSB:** 11,354	During the HF1 transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed ***Special attention required for:*** Check in particular the GPS function	P		MR A333

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
	Middle SSB: 6.543 **Lower SSB:** 2,857				
2	Operate HF2 in transmission from a crew member's station on three frequencies in AM and three frequencies in SSB (USB and/or LSB) modes in the HF band Upper, middle and lower. **Upper AM:** 11,354 **Middle AM:** 6.543 **Lower AM:** 2,857 **Upper SSB:** 11,354 **Middle SSB:** 6.543 **Lower SSB:** 2,857	During the HF2 transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed ***Special attention required for:*** Check in particular the GPS function	P		MR A333

6.6.2 VHF: (ATA 23-12)

AMM TASK 23-12-00-730-801: System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	Operate the VHF1 in transmission from a crew member's station. The VHF1 range will be tested at the following frequencies: VHF1 : (25 kHz) 118.000 127.500 136.975 VHF1 : (8.33 kHz) 118.010 127.560 136.965	During the VHF1 transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		MR 10395
2	Operate the VHF2 in transmission from a crew member's station. The V ?	During the VHF2 transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description"	P		MR 10395 MR 10[illegible]

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	range will be tested at the following frequencies: VHF2 : (25 kHz) 118.000 127.500 136.975 VHF2 : (8.33 kHz) 118.010 127.560 136.965	➢ C-MUSIC mustn't be perturbed	P		MR 10386
3	Operate the VHF3 in transmission from a crew member's station. The VHF3 range will be tested at the following frequencies: VHF3 : (25 kHz) 118.000 127.500 136.975 VHF3 : (8.33 kHz) 118.010 127.560 136.965	During the VHF3 transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		MR 10386

6.6.3 SATCOM IRRIDIUM Test – If SB 737-23-1707 applied: (ATA 23-15)

AMM TASK 23-15-40-710-801: IRIDIUM SATCOM System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

Note: SATCOM IRIDIUM audio channels are selected with the **MSN 1/2** keys on each ACP.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	On the NAV/Comm Panel (On pedestal P8), set the 2 switches 1-MSN-2 to **SATCOM** position. Operate the IRIDIUM SATCOM system.. From a crew member's station make a voice communication:	During the voice transmission: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		MR A339

6.6.4 ACARS SYSTEM: (ATA 23-27)

AMM TASK 23-27-00-730-803-004: ACARS – System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform a VHF ACARS Link test:	During the VHF ACARS Link Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.5 SELCAL SystemTest: (ATA 23-28)

AMM TASK 23-28-00-700-801: SELCAL System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform a SELCAL test:	During the SELCAL Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.6 PUBLIC ADDRESS SYSTEM :(ATA 23-31 – TWP-S-25L0102)

GTOF-B3038-25-136: CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform a PUBLIC ADDRESS announcement:	During the PUBLIC ADDRESS Announcement: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.7 SERVICE INTERPHONE SYSTEM: (ATA 23 – 41)

AMM TASK 23-41-00-710-801: Service Interphone - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between the flight crew and the ground:	During the SERVICE INTERPHONE COMMUNICATION with the ground: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.8 FLIGHT CREW CALL CABIN INTERPHONE: (ATA 23 – 42 –TWP-S-25L0102)

GTOF-B3038-25-136: CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between the flight crew and the cabin:	During the SERVICE INTERPHONE COMMUNICATION with the cabin: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.9 FLIGHT INTERPHONE SYSTEM :(ATA 23-51)

AMM TASK 23-51-00-710-801: Flight Interphone System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do communication between each of the flight crew stations:	During the FLIGHT INTERPHONE COMMUNICATION : Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.10 COCKPIT VOICE RECORDER :(ATA 23-71)

AMM TASK 23-71-00-710-801: Voice Recorder System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the COCKPIT VOICE RECORDER system test	During the COCKPIT VOICE RECORDER Test : Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.11 WIRELESS + COMMUNICATION: (TWP-S-23L0097) and KA BAND SYSTEM COMMUNICATION: (TWP-S-23L0100)

GTOF-B3038-23-134 WIRELESS + COMMUNICATION – POWER ON & FUNCTIONAL

GTOF-B3038-23-135 KA BAND SYSTEM – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the WIRELESS + COMMUNICATION system test During this test , perform a KA SATCOM communication	During the KA SATCOM COMMUNICATION : Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.12 IFE+CMS SYSTEM: (TWP-S-23L0098)

GTOF-B3038-23-009 IFE & CMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	After the IFE + CMS power on:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.13 FLIGHT DECK ENTRY VIDEO SURVEILLANCE SYSTEM: (ATA 23-75)

AMM TASK 23-75-00-730-804: Flight Deck Entry Video Surveillance System - System Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the FLIGHT DECK ENTRY VIDEO SURVEILLANCE system test	During the FLIGHT DECK ENTRY VIDEO Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.6.14 VIDEO MONITORING: (TWP-S-25L0102)

GTOF-B3038-25-136 CABIN STANDARD ITEMS – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the VIDEO MONITORING system test	During the VIDEO MONITORING Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.7 ATA 24: ELECTRICAL

6.7.1 DISTRIBUTION 230VAC 50HZ (TWP-24L0101)

GTOF-B3038-24-007: POWER – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Set the 230VAC POWER CONVERTERS system to ON	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8 ATA 26: FIRE PROTECTION

6.8.1 FIRE AND OVERHEAT DETECTION :(ATA 26-10)

AMM TASK 26-10-00-710-801: Fire and Overheat Detection System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the FIRE AND OVERHEAT DETECTION system test	During the FIRE AND OVERHEAT DETECTION Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8.2 ENGINE FIRE DETECTION: (ATA 26-11)

AMM TASK 26-11-00-710-801: Engine Fire Detection Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the ENGINE FIRE DETECTION system test	During the ENGINE FIRE DETECTION Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8.3 APU FIRE DETECTION: (ATA 26-15)

AMM TASK 26-15-00-710-801: APU Fire Detection - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the APU FIRE DETECTION system test	During the APU FIRE DETECTION Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8.4 LAVATORY SMOKE DETECTION: (TWP-S-26L0107)

GTOF-B3038-26-146 CABIN SMOKE DETECTION SYSTEM – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SMOKE DETECTION Operational test	During the SMOKE DETECTION Operational Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8.5 CARGO BAY SMOKE DETECTION :(ATA 26-16)

AMM TASK 26-16-00-710-801: Cargo Bay Smoke Detection - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the CARGO BAY SMOKE DETECTION system test	During the CARGO BAY SMOKE DETECTION Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.8.6 WHEEL WELL, WING AND LOWER AFT BODDY OVERHEAT DETECTION SYSTEM :(ATA 26-18)

AMM TASK 26-18-00-710-801: Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the OVERHEAT DETECTION system test	During the OVERHEAT DETECTION Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9 ATA 27: FLIGHT CONTROL

6.9.1 AILERON SYSTEM: (ATA 27-11)

AMM TASK 27-11-00-710-801: Aileron - Response (Operational) Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn the aileron control wheel through full travel in each direction from the neutral position.	During the AILERON MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.2 RUDDER TRIM CONTROL SYSTEM: (ATA 27-21)

AMM TASK 27-21-00-700-819-001: Rudder Trim System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use RUDDER TRIM:	During the RUDDER TRIM MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.3 ELEVATOR AND TAB CONTROL SYSTEM: (ATAT 27-31)

AMM TASK 27-31-00-710-801: Elevator and Elevator Trim Control System - Operational Test

AMM TASK 27-31-00-700-815: Elevator Tab Control System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use the ELEVATOR TRIM TAB:	During the ELEVATOR TRIM TAB MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.4 STALL WARNING SYSTEM: (ATA 27-32) /ND

AMM TASK 27-32-00-710-801: Stall Warning System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the STALL WARNING system test	During the STALL WARNING Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.5 HORIZONTAL STABILIZER TRIM CONTROL SYSTEM: (ATA 27-41)

AMM TASK 27-41-00-700-803: Stabilizer Electric Trim System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Use the HORIZONTAL STABILIZER TRIM:	During the HORIZONTAL STABILIZER TRIM MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.6 TRAILING EDGE FLAP SYSTEM: (ATA 27-51)

AMM TASK 27-51-00-710-801: Trailing Edge Flap System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the TRAILING EDGE FLAP system test	During the FLAP MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.7 SPOILER CONTROL SYSTEM: (ATA 27-61)

AMM TASK 27-61-00-710-801: Spoiler Control System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SPOILER CONTROL system test	During the SPOILER MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.8 LEADING EDGE FLAP AND SLAT CONTROL SYSTEM: (ATA 27-81)

AMM TASK 27-81-00-860-802: Leading Edge Flap and Slat System Operation with Alternate Control

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the LEADING EDGE FLAP AND SLAT CONTROL system test	During the FLAP AND SLAT MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.9.9 SPEED BRAKE CONTROL SYSTEM: (ATA 27-62)

AMM TASK 27-62-00-710-801: Speed Brake Control System Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the SPEED BRAKE CONTROL system test	During the SPEED BRAKE MOVEMENT: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.10 ATA 28: FUEL

6.10.1 ENGINE FUEL FEED SYSTEM: (ATA 28-22)

AMM TASK 28-22-00-730-801: Engine Fuel Feed Pumps - Functional Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the FUEL PUMPS of the tank 1, tank 2 and the center tank:	When the FUEL PUMP running: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.11 ATA 29: HYDRAULIC

6.11.1 ELECTRIC MOTOR DRIVEN PUMP: (ATA 29-11)

AMM TASK 29-11-21-700-801: Electric Motor-Driven Pump (EMDP) Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the ELEC 1 and the ELEC 2 HYD PUMP:	When the HYD PUMP running: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.12 ATA 30: ICE AND RAIN PROTECTION

6.12.1 AIR DATA SENSOR ANTI-ICING :(ATA 30-31)

AMM TASK 30-31-00-750-801: AUTO Air Data Sensor heating - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the AUTO AIR DATA SENSOR HEATING system test	During the SENSOR HEATING: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.12.2 WINDOW HEAT: (ATA 30-41)

AMM TASK 30-41-00-710-801: Window Heat System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Start the WINDOW HEATING system:	During the WINDOW HEATING: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.13 ATA 31: INDICATING/RECORDING SYSTEMS

6.13.1 AURAL WARNING SYSTEM: (ATA 31-51)

AMM TASK 31-51-00-740-801: Aural Warning Module BITE Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the AURAL WARNING MODULE BITE test	During the AURAL WARNING BITE test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.14 ATA 33: LIGHTING

6.14.1 GENERAL LIGHT: (TWP-S-33L0108)

GTOF-B3038-33-011: GENERAL LIGHT – POWER ON & FUNCTIONAL

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn On the GENERAL LIGHT.	With the GENERAL light to the ON: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.14.2 EMERGENCY LIGHTS: (TWP-S-33L109)

GTOF-B3038-33-049 CHAPTER 4: FUNCTIONAL TEST PROCEDURE

You can use the GTOF to perform the EMI test, but it is not mandatory to perform all of this GTOF task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn ON the EMERGENCY LIGHTS.	With the EMERGENCY LIGHTS to the ON: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.14.3 EXTERIOR LIGHTS

AMM TASK 33-32-00-710-801: Wheel Well Lights - Operational Test

AMM TASK 33-41-00-710-801: Wing Illumination Light - Operational Test

AMM TASK 33-42-01-700-801: Fixed Landing Light Operational Test

AMM SUBTASK 33-42-02-710-001 Retractable Landing Light N/A

AMM TASK 33-43-10-710-801: Winglet Position Light Operational Test

AMM TASK 33-44-00-710-801: Anti-Collision Lights Operational Test

AMM SUBTASK 33-45-01-710-001: Taxi Lights Control

AMM SUBTASK 33-45-02-710-002: Runway Turnoff Lights

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Turn on **each** of the EXTERIOR LIGHT listed above.	With the EXTERIOR light to the ON: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15 ATA 34: NAVIGATION

6.15.1 AIR DATA INERTIAL REFERENCE SYSTEM: (ATA 34-21)

AMM TASK 34-21-00-710-801: Air Data Inertial Reference System - Operational Test

AMM TASK 34-21-00-730-801: Inertial Reference - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Check the AIR DATA information are available on the Captain and F/O Instrument panel:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	Check the INERTIAL ATTITUDE information are available on the Captain and F/O Instrument panel:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.2 ILS SYSTEM: (ATA 34-31)

AMM TASK 34-31-00-730-801: Instrument Landing System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With a ramp tester operate the LOCALIZER at 6 different frequency to the **LOC RECEIVER n°1.** Freq. 1: 111,95 MHz Freq. 2: 111,10 MHz Freq. 3: 110,50 MHz Freq. 4: 109,45 MHz Freq. 5: 109,15 MHz Freq. 6: 108,10 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	With a ramp tester operate the LOCALIZER at 6 different frequency to the **LOC RECEIVER n°2.** Freq. 1: 111,95 MHz Freq. 2: 111,10 MHz Freq. 3: 110,50 MHz Freq. 4: 109,45 MHz Freq. 5: 109,15 MHz Freq. 6: 108,10 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
3	With a ramp tester operate the GLIDE at 6 different frequency to the **GLIDE SLOPE RECEIVER n°1.** Freq. 1: 334 MHz Freq. 2: 333,8 MHz Freq. 3: 329,75 MHz Freq. 4: 329,3 MHz Freq. 5: 329,11 MHz Freq. 6: 329,15 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
4	With a ramp tester operate the GLIDE at 6 different frequency to the **GLIDE SLOPE RECEIVER n°2.** Freq. 1: 334 MHz Freq. 2: 333,8 MHz Freq. 3: 329,75 MHz Freq. 4: 329,3 MHz Freq. 5: 329,11 MHz Freq. 6: 329,15 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.3 MARKER BEACON SYSTEM: (ATA 34-32)

AMM TASK 34-32-00-730-801: Marker Beacon System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With ramp tester operate the MARKER:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.4 LOW RANGE RADIO ALTIMETER (LRRA) SYSTEM: (ATA 34-33)

AMM TASK 34-33-00-710-801: Low Range Radio Altimeter (LRRA) System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the LRRA system test	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.5 HEAD UP DISPLAY SYSTEM (HUD): (ATA 34-36) N/A. SYSTEM NOT INSTALLED

AMM TASK 34-36-00-710-801 or AMM TASK 34-36-00-710-802: HUD Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With the HUD to ON.	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed			

6.15.6 WEATHER RADAR (WXR) SYSTEM: (ATA 34-43)

AMM TASK 34-43-00-802-001: Weather Radar (WXR) System - Operational Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With the WEATHER RADAR to ON	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.7 GPWS SYSTEM: (ATA 34-46)

AMM TASK 34-46-00-710-804-002: Ground Proximity Warning System - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the GPWS system test	During the GPWS Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.8 VOR SYSTEM: (ATA 34-51)

AMM TASK 34-51-00-730-801: VOR System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With a ramp tester operate the VOR at 6 different frequency to the **VOR RECEIVER n°1.** Freq. 1: 108,00 MHz Freq. 2: 110,00 MHz Freq. 3: 112,00 MHz Freq. 4: 114,00 MHz Freq. 5: 116,00 MHz Freq. 6: 118,00 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	With a ramp tester operate the VOR at 6 different frequency to the **VOR RECEIVER n°2.** Freq. 1: 108,00 MHz Freq. 2: 110,00 MHz Freq. 3: 112,00 MHz Freq. 4: 114,00 MHz Freq. 5: 116,00 MHz Freq. 6: 118,00 MHz	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.9 TCAS SYSTEM: (ATA 34-46)

AMM TASK 34-45-00-710-801: TCAS - Operational Test

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform TCAS operational test.	During the TCAS Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.10 IFF SYSTEM: (ATA 34-53)

IFF SYSTEM test will be performed in Modes 3, C, S, ELS MS; military Modes 4 and 5 are unselected.

Refer to the corresponding BDS AMM TASK: IFF System Test.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the IFF n°1 system test with the ramp tester.	During the IFF Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	Perform the IFF n°2 system test with the ramp tester.	During the IFF Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.11 DME SYSTEM: (ATA 34-55)

AMM TASK 34-55-00-730-801: DME System - System Test (With the IFR 6000 Test Set)

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Perform the DME n°1 system test with the ramp tester.	During the DME Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	Perform the DME n°2 system test with the ramp tester.	During the DME Test: Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.12 ADF SYSTEM: (ATA 34-57)

AMM TASK 34-57-00-730-802: Automatic Direction Finder System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Tune ADF n°1 to a local valid station	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	Tune ADF n° 2 to a local valid station	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.15.13 GPS SYSTEM: (ATA 34-58)

AMM TASK 34-58-00-730-802: Global Positioning System - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Check if GPS L indicate the correct position on the CDU	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		
2	Check if GPS R indicate the correct position on the CDU	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.16 ATA 46: INFORMATION SYSTEMS

6.16.1 CREW INFORMATION SYSTEM: (ATA 46-11)

NA 'SYSTEM NOT INSTALLED

AMM TASK 46-11-00-730-801: Electronic Flight Bag - System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Make sure that the ELECTRONIC FLIGHT BAG is operational:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed			

6.17 ATA 49: APU

6.17.1 APU START

Start the APU by applying:

AMM TASK 49-11-00-860-801: APU Strating and Operation

Checked

Energise the aircraft with APU generator by applying:

AMM TASK 24-22-00-860-815: Supply APU Generator Power

Checked

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With APU running and the aircraft energized by the APU generator:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.18 ATA 71: ENGINE

6.18.1 ENGINE START

Start the engines by applying:

AMM TASK 71-00-00-800-808-F00: Start the Engine Procedure (Normal start)

Checked

Checked

Energise the aircraft with IDG by applying:

AMM TASK 24-22-00-860-817: Supply IDG Power

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With engine running and the aircraft energized by the IDG:	Check the C-MUSIC system IAW the § 6.2 "C-MUSIC check description" ➢ C-MUSIC mustn't be perturbed	P		

6.18.2 ENGINE STOP

Energise the aircraft with external Power by applying:

AMM 24-22-00-860-813: Supply External Power

Checked

Stop the engines by applying:

AMM TASK 71-00-00-700-819-F00: Stop the Engine Procedure (Usual Engine Stop)

Checked

6.18.3 APU SHUTDOWN

Stop the APU by applying:

AMM TASK 49-11-00-860-802: APU Usual Shutdown

Checked

7 EMI ADDITIONAL TEST IN ACCORDANCE WITH ELECTROMAGNETIC COMPATIBILITY ANALYSIS

This tests must be performed following the conclusion of the STA-B3038-99-345: Electromagnetic Compatibility Analysis for B737-800 MSN 63990 & 64927

A test is considered to "PASS" when **no adverse** effect is identified due to the operation of the mentioned systems bellow.

In this paragraph, when a sensibility test is requested, proceed as follows:

Perform the sensibility measurement of the concerned receiver with the equipment considered "threat" to OFF

Perform, immediately after, the sensibility measurement of this receiver with the equipment considered "threat" to ON.

Result is correct, considered "PASS", if the sensibility difference is in the tolerance in dbm.

Result is incorrect, considered "FAIL", if the sensibility difference is out of the tolerance in dbm, in this case fill the paragraph "Remarks and Additional Tests" at the end of this document.

Checked

7.1 VHF # 1 (THREAT) WITH VHF # 3 (VICTIM)

SEE REMARKS

NO CMUSIC INVOLVED, NO LASER

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF # 3 threshold sensitivity is not disturbed by the VHF # 1.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	With VHF # 1 not in transmission Tune VHF # 3 to **118.100**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
2	With VHF # 1 not in transmission Tune VHF # 3 to **127.500**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
3	With VHF # 1 not in transmission Tune VHF # 3 to **136.900**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
4	With VHF # 1 not in transmission Tune VHF # 3 to **118.105**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
5	With VHF # 1 not in transmission Tune VHF # 3 to **127.505**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
6	With VHF # 1 not in transmission Tune VHF # 3 to **136.905**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: .....dbm			
7	With VHF # 1 in transmission at **118.080** : Perform the sensibility measurement of VHF # 3 at **118.100**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
8	With VHF # 1 in transmission at **118.075** : Perform the sensibility measurement of VHF # 3 at **118.100**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
9	With VHF # 1 in transmission at **118.125 :** Perform the sensibility measurement of VHF # 3 at **118.100**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
10	With VHF # 1 in transmission at **118.130 :** Perform the sensibility measurement of VHF # 3 at **118.100**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
11	With VHF # 1 in transmission at **127.500** Perform the sensibility measurement of VHF # 3 at **127.480**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
12	With VHF # 1 in transmission at **127.500** Perform the sensibility measurement of VHF # 3 at **127.475**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
13	With VHF # 1 in transmission at **127.500** Perform the sensibility measurement of VHF # 3 at **127.525**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
14	With VHF # 1 in transmission at **127.500** Perform the sensibility measurement of VHF # 3 at **127.530**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
15	With VHF # 1 in transmission at **136.900** Perform the sensibility measurement of VHF # 3 at **136.880**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
16	With VHF # 1 in transmission at **136.900** Perform the sensibility measurement of VHF # 3 at **136.875**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
17	With VHF # 1 in transmission at **136.900** Perform the sensibility measurement of VHF # 3 at **136.925**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
18	With VHF # 1 in transmission at **136.900** Perform the sensibility measurement of VHF # 3 at **136.930**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
19	With VHF # 1 in transmission at **118.105** Perform the sensibility measurement of VHF # 3 at **118.080**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
20	With VHF # 1 in transmission at **118.105** Perform the sensibility measurement of VHF # 3 at **118.075**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
21	With VHF # 1 in transmission at **118.105** Perform the sensibility measurement of VHF # 3 at **118.125**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
22	With VHF # 1 in transmission at **118.105** Perform the sensibility measurement of VHF # 3 at **118.130**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
23	With VHF # 1 in transmission at **127.505** Perform the sensibility measurement of VHF # 3 at **127.480**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
24	With VHF # 1 in transmission at **127.505** Perform the sensibility measurement of VHF # 3 at **127.475**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
25	With VHF # 1 in transmission at **127.505** Perform the sensibility measurement of VHF # 3 at **127.525**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
26	With VHF # 1 in transmission at **127.505** Perform the sensibility measurement of VHF # 3 at **127.530**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
27	With VHF # 1 in transmission at **136.905** Perform the sensibility measurement of VHF # 3 at **136.880**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
28	With VHF # 1 in transmission at **136.905** Perform the sensibility measurement of VHF # 3 at **136.875**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
29	With VHF # 1 in transmission at **136.905** Perform the sensibility measurement of VHF # 3 at **136.925**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
30	With VHF # 1 in transmission at **136.905** Perform the sensibility measurement of VHF # 3 at **136.930**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			

7.2 TCAS (THREAT) WITH VHF # 3 (VICTIM)

NO C-MUSIC INVOLVED, NO LASER.

AMM TASK 34-45-00-710-801: TCAS - Operational Test

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF # 3 threshold sensitivity is not disturbed by the TCAS.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **118.000**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-60.5...dbm	P		
2	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **127.500**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-67...dbm	P		
3	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **136.975**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-58...dbm	P		
4	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **118.010**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-67...dbm	P		
5	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **127.560**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-64...dbm	P		
6	Put the TCAS mode selector switch in STANDBY position. Tune VHF # 3 to **136.965**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-62.5...dbm	P		
7	Put the TCAS mode selector switch in TA/RA position. Tune VHF # 3 to **118.000**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-61.5...dbm Calculate the difference with the result of item 1. Note the result: ...1...dbm The difference must be ≤ **10 dbm**	P		
8	Put the TCAS mode selector switch in TA/RA position	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-64.5...dbm	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	Tune VHF # 3 to **127.500**	Calculate the difference with the result of item 2. Note the result: 2.5 dbm The difference must be **≤ 10 dbm**	P		
9	Put the TCAS mode selector switch in TA/RA position Tune VHF # 3 to **136.975**	Perform the sensibility measurement of the VHF 3 receiver: -59 Note the result: -59 dbm Calculate the difference with the result of item 3. Note the result: 1 dbm The difference must be **≤ 10 dbm**	P		
10	Put the TCAS mode selector switch in TA/RA position Tune VHF # 3 to **118,010**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: -63 dbm Calculate the difference with the result of item 4. Note the result: 4 dbm The difference must be **≤ 10 dbm**	P		
11	Put the TCAS mode selector switch in TA/RA position Tune VHF # 3 to **127.560**	Perform the sensibility measurement of the VHF 3 receiver: -64 Note the result: -64 dbm Calculate the difference with the result of item 5. Note the result: 0 dbm The difference must be **≤ 10 dbm**	P		
12	Put the TCAS mode selector switch in TA/RA position Tune VHF # 3 to **136.965**	Perform the sensibility measurement of the VHF 3 receiver: -57 Note the result: -57 dbm Calculate the difference with the result of item 6. Note the result: 5.5 dbm The difference must be **≤ 10 dbm**	P		

7.3 IFF 1 (THREAT) WITH VHF # 3 (VICTIM)

NO C-MUSIC INVOLVED, NO LAKER.

IFF SYSTEM test will be performed in Modes 3, C, S, ELS MS; military Modes 4 and 5 are unselected.

Refer to the corresponding BDS AMM TASK: IFF System Test.

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF # 3 threshold sensitivity is not disturbed by the IFF 1.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	Put the IFF mode selector in OFF position. Tune VHF # 3 to **118.000**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -64 .....dbm	P		
2	Put the IFF mode selector in OFF position. Tune VHF # 3 to **127.500**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -65.5 .....dbm	P		
3	Put the IFF mode selector in OFF position. Tune VHF # 3 to **136.975**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -61 .....dbm	P		
4	Put the IFF mode selector in OFF position. Tune VHF # 3 to **118.010**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -64.5 .....dbm	P		
5	Put the IFF mode selector in OFF position. Tune VHF # 3 to **127.560**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -67 .....dbm	P		
6	Put the IFF mode selector in OFF position. Tune VHF # 3 to **136.965**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -58 .....dbm	P		
7	Put the IFF mode selector in ON position. Tune VHF # 3 to **118.000**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: -65.5 .....dbm Calculate the difference with the result of item 1. Note the result: 1.5 .....dbm The difference must be ≤ **10 dbm**	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
8	Put the IFF mode selector in ON position. Tune VHF # 3 to **127.500**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: -66.....dbm Calculate the difference with the result of item 2. Note the result: .....05.....dbm The difference must be **≤ 10 dbm**	P		
9	Put the IFF mode selector in ON position. Tune VHF # 3 to **136.975**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....67.....dbm Calculate the difference with the result of item 3. Note the result: .....4.....dbm The difference must be **≤ 10 dbm**	P		
10	Put the IFF mode selector in ON position. Tune VHF # 3 to **118.010**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....64.....dbm Calculate the difference with the result of item 4. Note the result: .....05.....dbm The difference must be **≤ 10 dbm**	P		
11	Put the IFF mode selector in ON position. Tune VHF # 3 to **127.560**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....63.5.....dbm Calculate the difference with the result of item 5. Note the result: .....3.5.....dbm The difference must be **≤ 10 dbm**	P		
12	Put the IFF mode selector in ON position. Tune VHF # 3 to **136.965**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: .....62.....dbm Calculate the difference with the result of item 6. Note the result: .....4.....dbm The difference must be **≤ 10 dbm**	P		

7.4 HF (THREAT) WITH C-MUSIC GPS (VICTIM)

The purpose of the test is to check that C-MUSIC GPS is not disturbed by the HF.

Covered by test § 6.6.1

NO LASER INVOLVED.

7.5 VHF # 3 (THREAT) WITH VHF # 1 (VICTIM)

SEE REMARKS

NO C-MUSIC ENVOLVED, NO LASER.

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF # 1 threshold sensitivity is not disturbed by the VHF # 3.

ITEM	ACTIONS	RESULTS DESCRIPTION	PASS	FAILED	STAMP
1	With VHF # 3 not in transmission Tune VHF # 1 to **118.100**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
2	With VHF # 3 not in transmission Tune VHF # 1 to **127.500**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
3	With VHF # 3 not in transmission Tune VHF # 1 to **136.900**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
4	With VHF # 3 not in transmission Tune VHF # 1 to **118.105**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
5	With VHF # 3 not in transmission Tune VHF # 1 to **127.505**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
6	With VHF # 3 not in transmission Tune VHF # 1 to **136.905**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: .....dbm			
7	With VHF # 3 in transmission at **118.080 :** Perform the sensibility measurement of VHF # 1 at **118.100**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
8	With VHF # 3 in transmission at **118.075 :** Perform the sensibility measurement of VHF # 1 at	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 1.			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	118.100	Note the result: .....dbm The difference must be **≤ 10 dbm**			
9	With VHF # 3 in transmission at **118.125 :** Perform the sensibility measurement of VHF # 1 at **118.100**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
10	With VHF # 3 in transmission at **118.130 :** Perform the sensibility measurement of VHF # 1 at **118.100**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 1. Note the result: .....dbm The difference must be **≤ 10 dbm**			
11	With VHF # 3 in transmission at **127.500** Perform the sensibility measurement of VHF # 1 at **127.480**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
12	With VHF # 3 in transmission at **127.500** Perform the sensibility measurement of VHF # 1 at **127.475**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
13	With VHF # 3 in transmission at **127.500** Perform the sensibility measurement of VHF # 1 at **127.525**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
14	With VHF # 3 in transmission at **127.500** Perform the sensibility measurement of VHF # 1 at **127.530**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 2. Note the result: .....dbm The difference must be **≤ 10 dbm**			
15	With VHF # 3 in transmission at **136.900** Perform the sensibility measurement of VHF # 1 at **136.880**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
16	With VHF # 3 in transmission at **136.900** Perform the sensibility measurement of VHF # 1 at	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 3.			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	136.875	Note the result: .....dbm The difference must be **≤ 10 dbm**			
17	With VHF # 3 in transmission at **136.900** Perform the sensibility measurement of VHF # 1 at **136.925**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
18	With VHF # 3 in transmission at **136.900** Perform the sensibility measurement of VHF # 1 at **136.930**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 3. Note the result: .....dbm The difference must be **≤ 10 dbm**			
19	With VHF # 3 in transmission at **118.105** Perform the sensibility measurement of VHF # 1 at **118.080**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
20	With VHF # 3 in transmission at **118.105** Perform the sensibility measurement of VHF # 1 at **118.075**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
21	With VHF # 3 in transmission at **118.105** Perform the sensibility measurement of VHF # 1 at **118.125**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
22	With VHF # 3 in transmission at **118.105** Perform the sensibility measurement of VHF # 1 at **118.130**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 4. Note the result: .....dbm The difference must be **≤ 10 dbm**			
23	With VHF # 3 in transmission at **127.505** Perform the sensibility measurement of VHF # 1 at **127.480**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
24	With VHF # 3 in transmission at **127.505** Perform the sensibility	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result			

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	measurement of VHF # 1 at **127.475**	of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
25	With VHF # 3 in transmission at **127.505** Perform the sensibility measurement of VHF # 1 at **127.525**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
26	With VHF # 3 in transmission at **127.505** Perform the sensibility measurement of VHF # 1 at **127.530**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: .....dbm The difference must be **≤ 10 dbm**			
27	With VHF # 3 in transmission at **136.905** Perform the sensibility measurement of VHF # 1 at **136.880**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
28	With VHF # 3 in transmission at **136.905** Perform the sensibility measurement of VHF # 1 at **136.875**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
29	With VHF # 3 in transmission at **136.905** Perform the sensibility measurement of VHF # 1 at **136.925**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			
30	With VHF # 3 in transmission at **136.905** Perform the sensibility measurement of VHF # 1 at **136.930**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....dbm Calculate the difference with the result of item 6. Note the result: .....dbm The difference must be **≤ 10 dbm**			

7.6 C-MUSIC POD (THREAT) WITH VHF #1 (VICTIM)

C-MUSIC INVOLVE, LASER INVOLVE.

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF #1 threshold sensitivity at frequencies close to 125.008MHz and 124.956MHZ is not disturbed by the C-MUSIC POD.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **124.950**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -58 dbm	P		MR 10382
2	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **124.955**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -59 dbm	P		
3	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **124.960**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -66,5 dbm	P		
4	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **124.965**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -54,5 dbm	P		
5	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **124.975**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -58 dbm	P		MR 10383
6	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **125.000**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -58,5 dbm	P		MR 10382
7	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **125.005**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -44 dbm	P		
8	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **125.010**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -54,5 dbm	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
9	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **125.015**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -53,5 ....dbm	P		
10	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 1 to **125.025**	Perform the sensibility measurement of the VHF # 1 receiver: Note the result: -55,5 ....dbm	P		
11	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **124.950**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -52,5 ....dbm Calculate the difference with the result of item 1. Note the result: 3,5 ....dbm The difference must be **≤ 10 dbm**	P		
12	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **124.955**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -62,5 ....dbm Calculate the difference with the result of item 2. Note the result: 3,5 ....dbm The difference must be **≤ 10 dbm**	P		
13	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **124.960**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -64 ....dbm Calculate the difference with the result of item 3. Note the result: 5,5 ....dbm The difference must be **≤ 10 dbm**	P		
14	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **124.965**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -62,5 ....dbm Calculate the difference with the result of item 4. Note the result: 8 ....dbm The difference must be **≤ 10 dbm**	P		
15	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **124.975**	Perform the sensibility measurement of the VHF 1 receiver: -52 - Note the result: ....dbm Calculate the difference with the result of item 5. Note the result: -58,5 6 ....dbm The difference must be **≤ 10 dbm**	P		
16	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **125.000**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -48 ....dbm -58,5 Calculate the difference with the result of item 6. Note the result: 1 ....dbm The difference must be **≤ 10 dbm**	P		
17	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -51,5 ....dbm Calculate the difference with the result	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	125.005	of item 7. Note the result: ..-7.5.....dbm The difference must be **≤ 10 dbm**	P		
18	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **125.010**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -60.5....dbm Calculate the difference with the result of item 8. Note the result: .....6.....dbm The difference must be **≤ 10 dbm**	P		
19	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **125.015**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: -62.5....dbm Calculate the difference with the result of item 9. Note the result: .....9.....dbm The difference must be **≤ 10 dbm**	P		
20	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 1 to **125.025**	Perform the sensibility measurement of the VHF 1 receiver: Note the result: .....-59.5....dbm Calculate the difference with the result of item 10. Note the result: .....4.....dbm The difference must be **≤ 10 dbm**	P		

7.7 C-MUSIC POD (THREAT) WITH VHF #2 (VICTIM)

C-MUSIC AND LASER INVOLVE.

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF #2 threshold sensitivity at frequencies close to 125.008MHz and 124.956MHZ is not disturbed by the C-MUSIC POD.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **124.950**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: ....-49.5.....dbm	P		
2	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **124.955**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -53.5.....dbm	P		
3	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **124.960**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -62.5.....dbm	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
4	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **124.965**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -53,5....dbm	P		
5	Place the C-MUSIC in receiver mode IAW § 6.1 Tune VHF # 2 to **124.975**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -55,5.....dbm	P		
6	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **125.000**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -46,5.....dbm	P		
7	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **125.005**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -49,5...dbm	P		
8	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **125.010**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -56,5....dbm	P		
9	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **125.015**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -57,5...dbm	P		
10	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 2 to **125.025**	Perform the sensibility measurement of the VHF # 2 receiver: Note the result: -51.....dbm	P		
11	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **124,950**	Perform the sensibility measurement of the VHF 2 receiver: -45 Note the result: -45,5.....dbm Calculate the difference with the result of item 1. 4 Note the result: 4.....dbm The difference must be **≤ 10 dbm**	P		
12	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **124.955**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: -53,5..dbm Calculate the difference with the result of item 2. -4 Note the result: .....dbm The difference must be **≤ 10 dbm**	P		
13	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to	Perform the sensibility measurement of the VHF 2 receiver: Note the result: -52,5...dbm Calculate the difference with the result	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	124.960	of item 3. Note the result: ..-2..dbm The difference must be **≤ 10 dbm**	P		
14	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **124.965**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: ..-63.5..dbm Calculate the difference with the result of item 4. Note the result: ..-4.5..dbm The difference must be **≤ 10 dbm**	P		
15	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **124.975**	Perform the sensibility measurement of the VHF 2 receiver: -50.5 Note the result: .....dbm Calculate the difference with the result of item 5. Note the result: ..5.....dbm The difference must be **≤ 10 dbm**	P		
16	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **125.000**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: ..-42..dbm Calculate the difference with the result of item 6. Note the result: ..4.5..dbm The difference must be **≤ 10 dbm**	P		
17	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **125.005**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: ..-53.5..dbm Calculate the difference with the result of item 7. Note the result: ..-4..dbm The difference must be **≤ 10 dbm**	P		
18	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **125.010**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: ..-64.5..dbm Calculate the difference with the result of item 8. Note the result: ..-8..dbm The difference must be **≤ 10 dbm**	P		
19	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **125.015**	Perform the sensibility measurement of the VHF 2 receiver: Note the result: ..-67..dbm Calculate the difference with the result of item 9. Note the result: ..9.5..dbm The difference must be **≤ 10 dbm**	P		
20	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 2 to **125.025**	Perform the sensibility measurement of the VHF 2 receiver:-46 Note the result: ..-4..dbm Calculate the difference with the result of item 10. Note the result: ..-5..dbm The difference must be **≤ 10 dbm**	P		

7.8 C-MUSIC POD (THREAT) WITH VHF #3 (VICTIM)

C-MUSIC AND LASER INVOLVED

AMM TASK 23-12-00-730-801: VHF System Test

You can use the AMM Task to perform the EMI test, but it is not mandatory to perform all of this AMM task.

The purpose of the test is to check that VHF #3 threshold sensitivity at frequencies close to 125.008MHz and 124.956MHZ is not disturbed by the C-MUSIC POD.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **124.950**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ~~-54.5~~ -43 dbm	P		
2	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **124.955**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -64,5 dbm	P		
3	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **124.960**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -59,5 dbm	P		
4	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **124.965**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -60,5 dbm	P		
5	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **124.975**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -50,5 dbm	P		
6	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **125.000**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -63,5 dbm	P		
7	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **125.005**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -54,5 dbm	P		
8	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **125.010**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: -58 dbm	P		
9	Place the C-MUSIC in receiver mode IAW § 6.1.	Perform the sensibility measurement of the VHF # 3 receiver:	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
	Tune VHF # 3 to **125.015**	Note the result: ...-66.....dbm	P		
10	Place the C-MUSIC in receiver mode IAW § 6.1. Tune VHF # 3 to **125.025**	Perform the sensibility measurement of the VHF # 3 receiver: Note the result: ...-67.....dbm	P		
11	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **124.950**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-885.....dbm Calculate the difference with the result of item 1. Note the result: ...8.5.....dbm The difference must be ≤ **10 dbm**	P		
12	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **124.955**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-63.5...dbm Calculate the difference with the result of item 2. Note the result: ...1.....dbm The difference must be ≤ **10 dbm**	P		
13	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **124.960**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-64.5.....dbm Calculate the difference with the result of item 3. Note the result: ...5.....dbm The difference must be ≤ **10 dbm**	P		
14	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **124.965**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-67.....dbm Calculate the difference with the result of item 4. Note the result: ...6.5.....dbm The difference must be ≤ **10 dbm**	P		
15	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **124.975**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-59.5.....dbm Calculate the difference with the result of item 5. Note the result: ...-9.....dbm The difference must be ≤ **10 dbm**	P		
16	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **125.000**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-69.5.....dbm Calculate the difference with the result of item 6. Note the result: ...1.....dbm The difference must be ≤ **10 dbm**	P		
17	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **125.005**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-52.5...dbm Calculate the difference with the result of item 7. Note the result: ...3.....dbm	P		

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
		The difference must be **≤ 10 dbm**			
18	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **125.010**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ...-65....dbm Calculate the difference with the result of item 8. Note the result: ....8.5.....dbm The difference must be **≤ 10 dbm**	P		
19	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **125.015**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ....-64....dbm Calculate the difference with the result of item 9. Note the result: .....7.....dbm The difference must be **≤ 10 dbm**	P		
20	Place the C-MUSIC in source mode IAW § 5.1. Tune VHF # 3 to **125.025**	Perform the sensibility measurement of the VHF 3 receiver: Note the result: ....-67.....dbm Calculate the difference with the result of item 10. Note the result: .....dbm The difference must be **≤ 10 dbm**	P		

7.9 C-MUSIC POD Front Panel Indicator Light (FPIL) (THREAT) WITH STANDBY MAGNETIC COMPASS (VICTIM)

C'MUSIC INVOLVE AND NO LASER

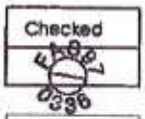
The purpose of the test is to check that the STANDBY MAGNETIC COMPASS is not disturbed by the C-MUSIC Control and Display Unit.

ITEM	ACTIONS	RESULTS			STAMP
		DESCRIPTION	PASS	FAILED	
1	Do the light test for the C-MUSIC Front Panel Indicator Light (FPIL) Check the stanby compass indications:	No deviation, indication instability, is noticed on the STANDBY MAGNETIC COMPASS with the C-MUSIC Front Panel Indicator Light (FPIL) during LIGHT TEST.	P		

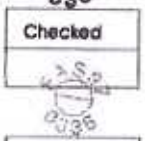
VA

8 CLOSE UP:

Deactivate the various aircraft systems used during this test by applying the corresponding AMM Task and GTOF.

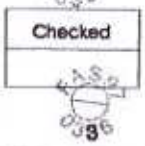


Deactivate the Air Data Inertial Reference System by applying:
AMM Task 34-21-00-040-801: Air Data Inertial Reference - Deactivation

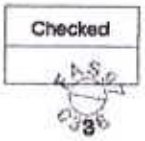


De-energise aircraft by remove external Power, by applying:

AMM 24-22-00-860-814: Remove External Power



Remove all the bench test, tools required for the tests.
Put the Aircraft back to its initial configuration



9 SYNTHESIS

9.1 Notice of operator

SATISFACTORY TESTS :

Y	N

COMMENTS :

STEP 7.1. AND 7.5 – NOT PERFORM REFER TO ANNEX 7.1 AND 7.5

9.2 CVE Validation

RESULTS CORRESPONDING TO THE STATUTORY REQUIREMENTS QUOTED IN THE FORM OF ENDORSEMENT CVE FROM THE CORRESPONDING TRIAL DOCUMENT:

signature :

Y	N
X	

Speciality : System
CVE Name : E. ZAGO
Date : 04/01/2021

COMMENTS:

The C/Music do not perturb the aircraft systems.
The aircraft systems do not perturb the C/Music system.
The VHF1 and VHF3 in normal Mode : Non-interference test is OK.
But in abnormal Mode, when the VHF2 is fail and when you use the VHF3 in voice, there is interference between the VHF3 and the VHF1 in the same channels frequency.

limitation : in this abnormal Mode use 4 MHz of separation channels frequency between VHF1 and VHF3.

10 APPENDIX:

APPENDIX A: During the test described in §6,

SNT technician shall inform ELBIT Technician on the A/C system test,
ELBIT technician shall perform the test of C-MUSIC following the §6,
ELBIT technician shall fill the following table.

§ / ATA / A/C system	C-MUSIC must not be disturbed *Pass/Fail*	comment
6.4 / ATA 21: 6.4.1 Cabin temp control	P	
6.4 / ATA 21: 6.4.2 Forward cargo cooling	P	
6.5 / ATA 22 : 6.5.1 Land test	P	
6.5 / ATA 22 : 6.5.2 Yaw damper	P	
6.5 / ATA 22 : 6.5.3 Auto throttle	P	
6.6 / ATA 23 : 6.6.1 HF1 and HF2	P	
6.6 / ATA 23 : 6.6.2 VHF1, VHF2 and VHF3	P	
6.6 / ATA 23 : 6.6.3 SATCOM IRRIDIUM	P	
6.6 / ATA 23 : 6.6.4 ACARS	P	
6.6 / ATA 23 : 6.6.5 SELCAL	P	
6.6 / ATA 23 : 6.6.6 PUBLIC ADDRESS	P	
6.6 / ATA 23 : 6.6.7 SERVICE INTERPHONE	P	
6.6 / ATA 23 : 6.6.8 FLIGHT CREW INTERPHONE	P	
6.6 / ATA 23 : 6.6.9 FLIGHT INTERPHONE	P	
6.6 / ATA 23 : 6.6.10 COCKPIT VOICE RECORDER	P	
6.6 / ATA 23 : 6.6.11 WIRELESS + COMMUNICATION	P	

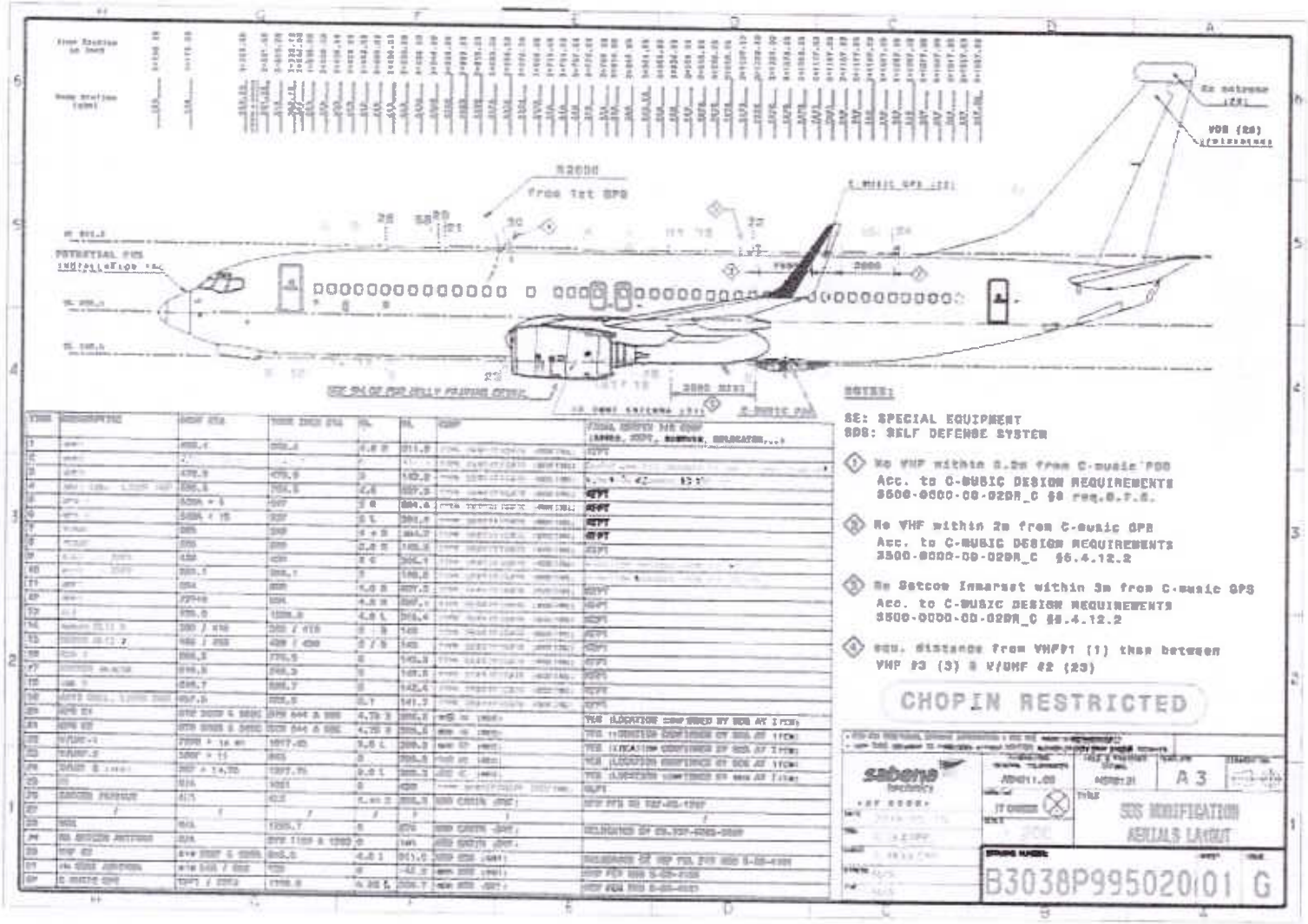
6.6 / ATA 23 : 6.6.12 IFE + CMS	P	
6.6 / ATA 23 : 6.6.13 FLIGHT DECK ENTRY VIDEO	P	
6.6 / ATA 23 : 6.6.14 VIDEO MONITORING	P	
6.7 / ATA 24 : 6.7.1 ELECTRICAL DISTRIBUTION	P	
6.8 / ATA 26 : 6.8.1 FIRE AND OVERHEAT DETECTION	P	
6.8 / ATA 26 : 6.8.2 ENGINE FIRE DETECTION	P	
6.8 / ATA 26 : 6.8.3 APU FIRE DETECTION	P	
6.8 / ATA 26 : 6.8.4 LAVATORY SMOKE DETECTION	P	
6.8 / ATA 26 : 6.8.5 CARGO BAY SMOKE DETECTION	P	
6.8 / ATA 26 : 6.8.6 WHEEL WELL, WING, AFT BODDY OVERHEAT DETECTION	P	
6.9 / ATA 27 : 6.9.1 AILERON SYSTEM	P	
6.9 / ATA 27 : 6.9.2 RUDDER TRIM	P	
6.9 / ATA 27 : 6.9.3 ELEVATOR AND TAB	P	
6.9 / ATA 27 : 6.9.4 STALL WARNING	P	
6.9 / ATA 27 : 6.9.5 HORIZONTAL STAB TRIM CONTROL	P	
6.9 / ATA 27 : 6.9.6 TRAILING EDGE	P	
6.9 / ATA 27 : 6.9.7 SPOILER CONTROL	P	
6.9 / ATA 27 : 6.9.8 LEADING EDGE	P	
6.9 / ATA 27 : 6.9.9 SPEED BRAKE	P	
6.10 / ATA 28 : 6.10.1 ENGINE FUEL FEED	P	
6.11 / ATA 29 : 6.11.1 ELECTRIC MOTOR DRIVEN PUMP	P	

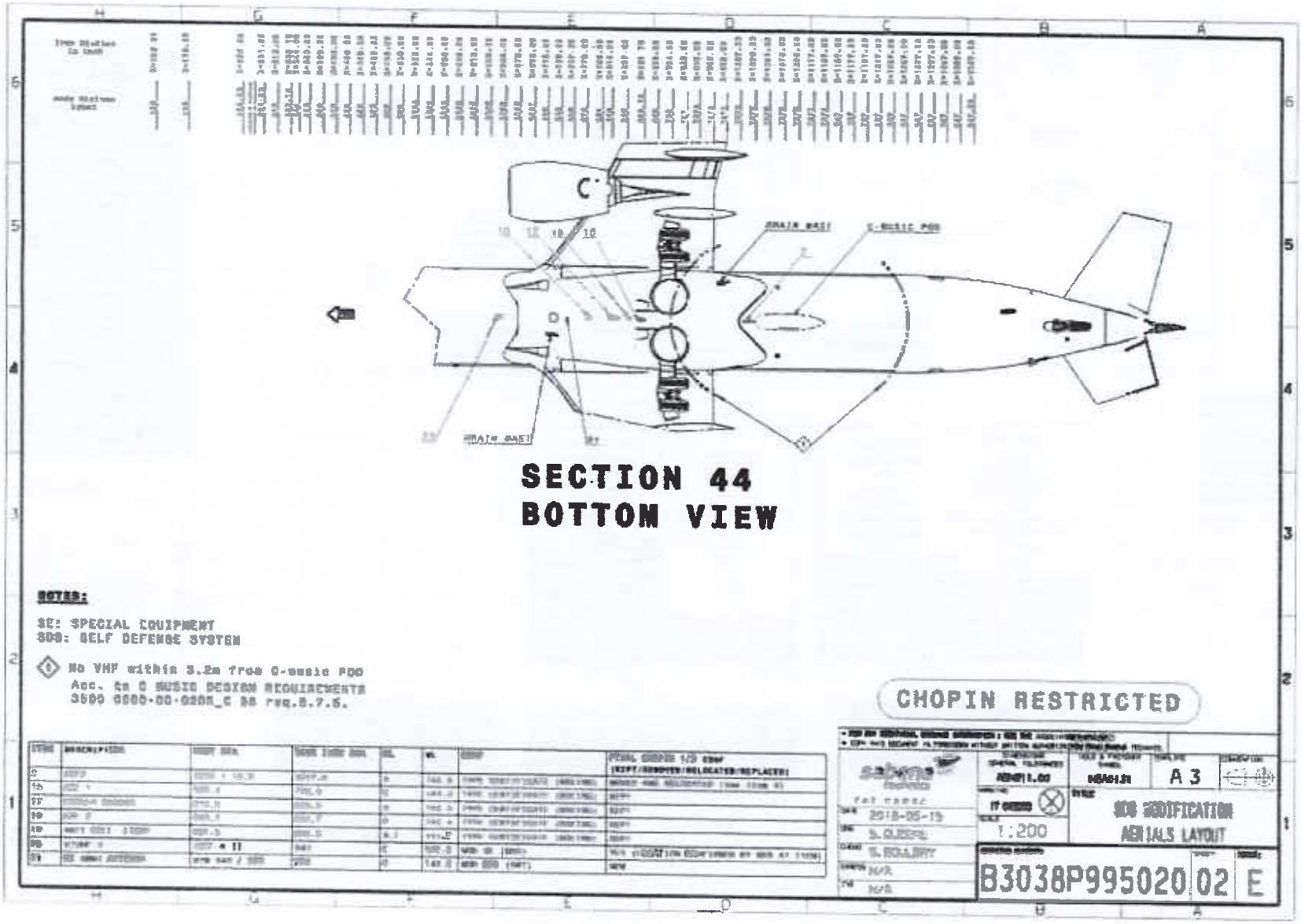
6.12 / ATA 30 : 6.12.1 AIR DATA SENSOR	P	
6.12 / ATA 30 : 6.12.2 WINDOW HEAT	P	
6.13 / ATA 31 : 6.13.1 AURAL WARNING SYSTEM	P	
6.14 / ATA 33 : 6.14.1 GENERAL LIGHT	P	
6.14 / ATA 33 : 6.14.2 EMERGENCY LIGHTS	P	
6.14 / ATA 33 : 6.14.3 EXTERIOR LIGHTS	P	
6.15 / ATA 34 : 6.15.1 AIR DATA	P	
6.15 / ATA 34 : 6.15.2 LOC1, LOC2, GLIDE1, GLIDE2	P	
6.15 / ATA 34 : 6.15.3 MARKER BEACON	P	
6.15 / ATA 34 : 6.15.4 RADIO ALTIMETER	P	
6.15 / ATA 34 : 6.15.5 HEAD UP DISPLAY	P	
6.15 / ATA 34 : 6.15.6 WEATHER RADAR	P	
6.15 / ATA 34 : 6.15.7 GPWS	P	
6.15 / ATA 34 : 6.15.8 VOR1, VOR2	P	
6.15 / ATA 34 : 6.15.9 TCAS	P	
6.15 / ATA 34 : 6.15.10 IFF1,IFF2	P	
6.15 / ATA 34 : 6.15.11 DME1,DME2	P	
6.15 / ATA 34 : 6.15.12 ADF1,ADF2	P	
6.15 / ATA 34 : 6.15.13 GPS	P	
6.16 / ATA 46 : 6.16.1 CREW INFORMATION SYSTEM	P	
6.17 / ATA 49 : 6.17.1 APU	P	
6.18 / ATA 71 : 6.18.1 ENGINE	P	

FINAL RESULT of the §6:

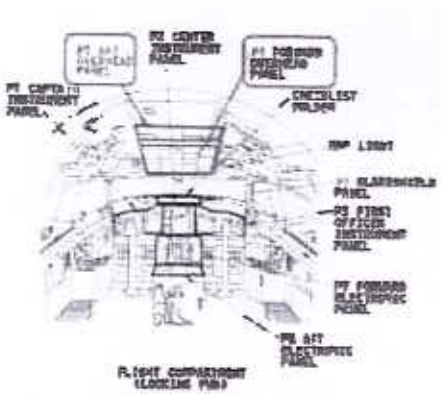
ELBIT TECHNICIAN NAME	Date / Sign
Aviv AMOUYAL Avital NAHUM	23/12/20 P/O

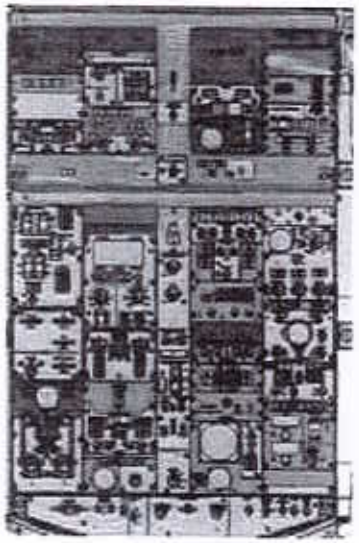
APPENDIX B: AERIALS LAYOUT

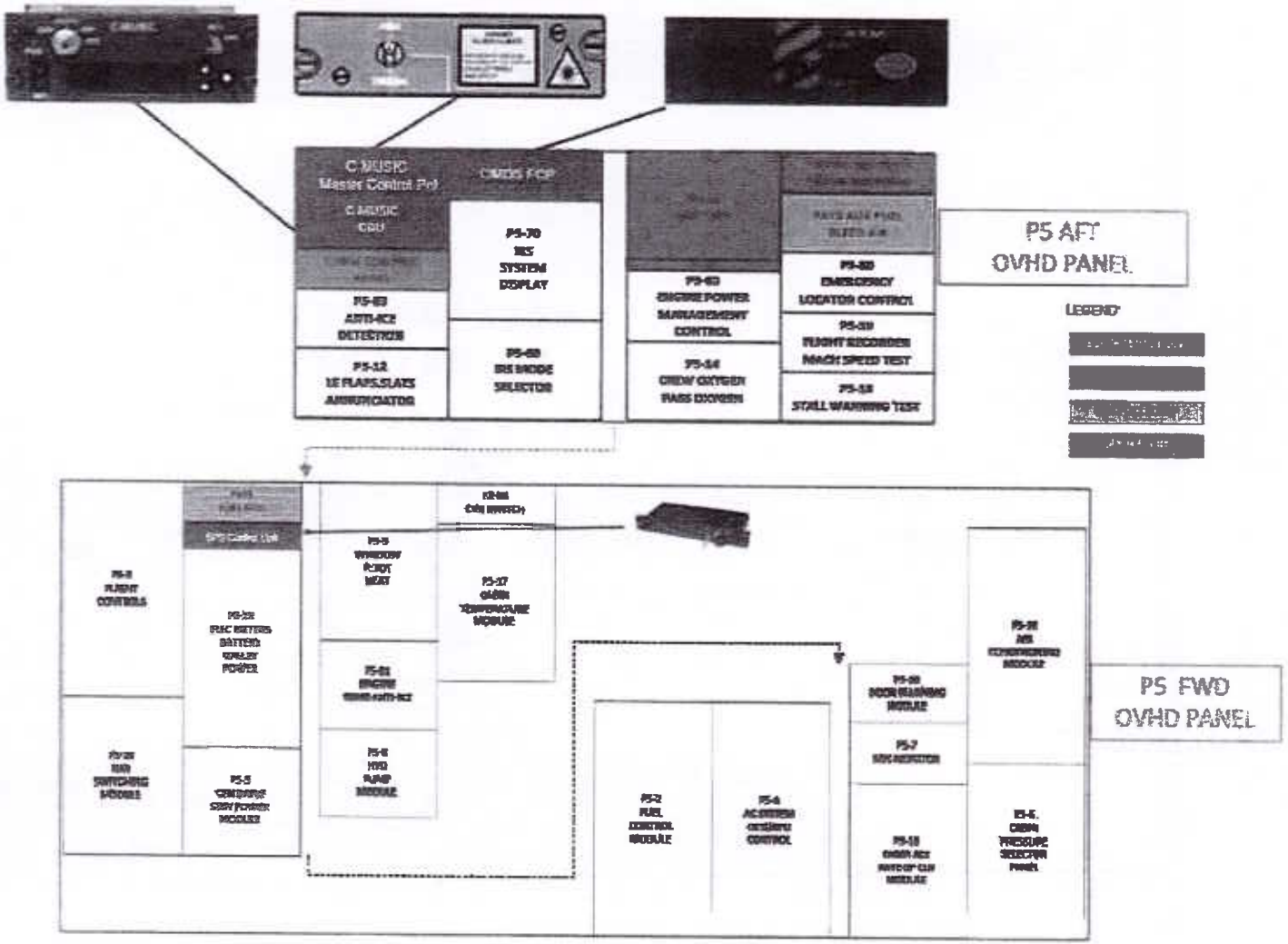



SECTION 44
BOTTOM VIEW
NOTES:
SE: SPECIAL EQUIPMENT
SDS: SELF DEFENSE SYSTEM
No VHF within 3.2m from C-music POD
Acc. to C MUSIC DESIGN REQUIREMENTS
3500 0000-00-0205_C 3a req.8.7.5.
CHOPIN RESTRICTED
sabena technics
2018-05-15
S. DUBOIS
S. BOULERY
1:200
SDS MODIFICATION
AERIALS LAYOUT
B3038P995020
02
E
A 3

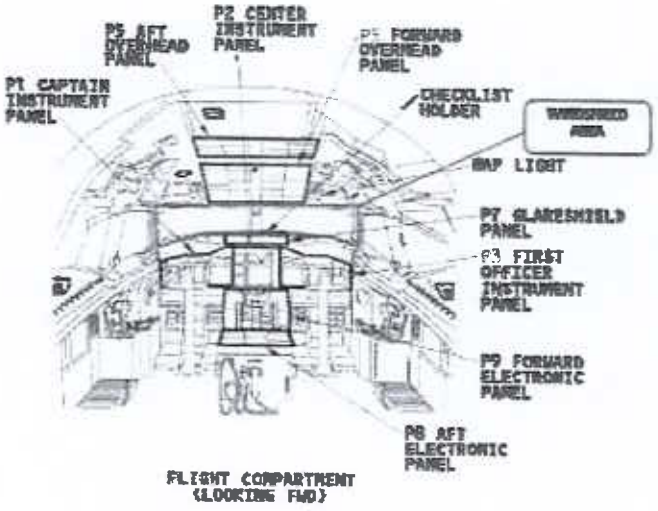
APPENDIX C: COCKPIT LAYOUT P5 UPPER & LOWER

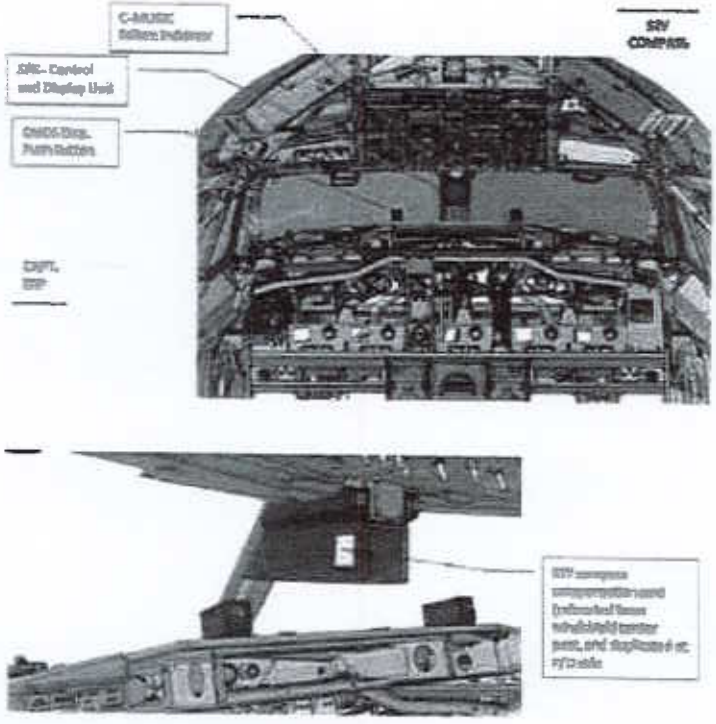


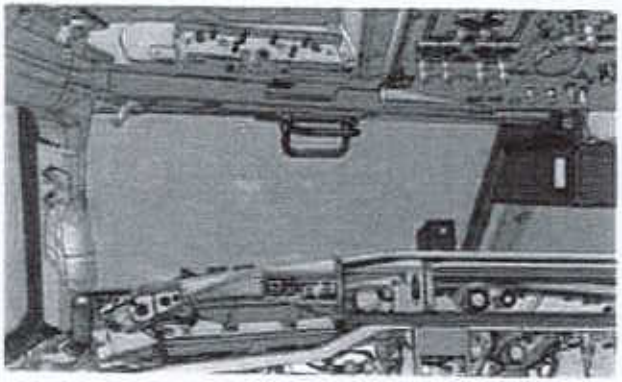




APPENDIX D: COCKPIT LAYOUT –WINDSHIELD AREA







ANNEX FOR §7.1 and §7.5

Considering FAIL tests in § 7.1 and § 7.5 (VHF1 vs VHF3)
Supplemental investigations were necessary to understand the bandwidth linked to the perturbations.

1st test: VHF1 and VHF3 used as communication mean (DEGRADED MODE).
Transmit with IFR4000 on VHF victim, and then transmit in cockpit through VHF threat.

§7.5 VHF # 3 (THREAT) WITH VHF # 1 (VICTIM)		
VHF1 Victim	**VHF3 Source to have 10dBm or less of perturbation on VHF1**	
118.100	Fmax found : 118.100 - AUDIOBLE.	57/47
127.500	Fmin found : Fmax found : 127.5. - AUDIOBLE	-55.5/45.
136.900	Fmin found : 136.9. - AUDIOBLE.	50.5/40.5
118.105	Fmax found : 118.105 - AUDIOBLE	58.5/48.5
127.505	Fmin found : Fmax found : 127.505 - AUDIOBLE	55.5/45.5
136.905	Fmin found : 136.905 - AUDIOBLE	54/44

§7.1 VHF # 1 (THREAT) WITH VHF # 3 (VICTIM)	
VHF3 Victim	**VHF1 Source to have 10dBm or less of perturbation on VHF3**
118.100	Fmax found : 119,005
127.500	Fmin found : 126,595 Fmax found : 128,390
136.900	Fmin found : 132,950
118.105	Fmax found : 119,065
127.505	Fmin found : 126,405 Fmax found : 128,515
136.905	Fmin found : 132,775

2nd test: VHF1 used as communication and VHF3 used as Datalink (NORMAL MODE).
Transmit with IFR4000 on VHF1, and then send an ACARS request through VHF3.

VHF3 DataLink Threat	VHF1 victim (10 dBm max of pertubation)	Pass/Fail	
DATA *Note : ACARS Primary Worldwide : 131.550* *VHF3 Source : 131.550*	VHF1 victim 131.525		N/A
	VHF1 victim 131.575		
	VHF1 victim 131.530		
	VHF1 victim 131.565		
DATA *Note: ACARS Primary Europe : 131.725* *VHF3 Source : 131.725*	VHF1 victim 131.700	CLICK. CLICK.	52/42
	VHF1 victim 131.750	CLICK CLICK.	53/43
	VHF1 victim 131.705	CLICK CLICK	55.5/45.5
	VHF1 victim 131.740	CLICK CLICK.	54.5/44.5

3rd test: VHF1 and VHF3 used as communication mean, with one VHF on ATIS.
Check the good reception of ATIS message when transmitting on other VHF.

[illegible]	
VHF1 Victim	**VHF3 Source to have 10dBm or less of perturbation on VHF1**
131.150 (ATIS)	Fmin found : 131.150. - AUDIBLE Fmax found :

NO INTERRUPTION

[illegible]	
VHF3 Victim	**VHF1 Source to have 10dBm or less of perturbation on VHF3**
131.150 (ATIS)	Fmin found : Fmax found : 131.150 - AUDIBLE.