



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
4553ERM.004A2

Partial Test report

USA FCC Part 15.247, 15.407 15.209, 15.207
CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Android-based infotainment head unit
(*) Trademark	HARMAN
(*) Model and /or type reference tested	TAS700 Argentina
(*) Derived model not tested	Type: T337
Other identification of the product	FCC ID: 2AHPN-BE2888 IC: N/A HVIN: TBD Type: T337 / T338
(*) Features	AM/FM receiver, Bluetooth EDR, Wi-Fi 2.4GHz & 5GHz
Manufacturer	MIRGOR S.A.C.I.F.I.A Einstein 1111, V9421 Rio Grande Provincia de Tierra del Fuego, Argentina
Test method requested, standard	USA FCC Part 15.31(h) (10-01-2025 Edition): Measurement standards USA FCC Part 15.247 (10-01-2025 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz USA FCC Part 15.205 (10-01-2025 Edition): Restricted bands of operation. USA FCC Part 15.209 (10-01-2025 Edition): Radiated emission limits; gen.req. USA FCC Part 15.407 (10-01-2025) Edition : Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. CANADA RSS-247 Issue 4 (July 2025). CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (Feb 2021). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices
Summary	See Appendix A
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager 
Date of issue	08-27-2026
Report template No	FDT08_25 (*) "Data provided by the client"

Digitally signed by Domingo Galvez
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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U ($k=2$)	Units
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Receiver Assy, Radio & Display.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

The sample(s) is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	4553/20	Infotainment head unit	TAS 700	T3380MT031000031	2026-04-28	Element Under Test
S/01	4553/12	USB harness + Hub	--	--	2026-04-28	Accessory
S/01	4553/13	USB Type A end to end cable	--	--	2026-04-28	Accessory
S/01	4553/14	FM/AM Antenna	--	--	2026-04-28	Accessory
S/01	4553/15	GNSS Antenna	--	--	2026-04-28	Accessory
S/01	4553/16	Antenna's harness	--	--	2026-04-28	Accessory
S/01	4553/18	Main Harness	--	--	2026-04-28	Accessory
S/01	01482	LAPTOP	V14 G2 ITL	PF3QAFFH		Auxiliary Element

Notes referenced to samples during the project:

Sample S/01 was used for following test(s): All Radiated tests indicated in appendix A.

Sample Type: T338 tested

Test sample description

Ports..... :	Port name and description		Cable												
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾									
	Main Harness		.....	[X]	[]	[]									
	Speaker out		.....	[ ]	[ ]	[ ]									
	USB IF		.....	[X]	[]	[]									
	GVIF		.....	[ ]	[ ]	[ ]									
	GPS		.....	[X]	[]	[]									
	FMAM		.....	[X]	[]	[]									
Supplementary information to the ports..... :	No Data provided														
Rated power supply	Voltage and Frequency		Reference poles												
			L1	L2	L3	N PE									
	[]	AC:	[]	[]	[]	[] []									
	[]	AC:	[]	[]	[]	[] []									
	[]	DC:													
	[X]	DC: 13.2 V nominal Car battery, 8V to 16V max; 4A													
Rated Power	No Data provided														
Clock frequencies.....	No Data provided														
Other parameters	No Data provided														
Software version	6.26.071														
Hardware version	D0														
Dimensions in cm (W x H x D)	32.5 x 15.7 x 16.5														
Mounting position	[]	Table top equipment													
	[]	Wall/Ceiling mounted equipment													
	[]	Floor standing equipment													
	[]	Hand-held equipment													
	[X]	Other: Installed in vehicle													
Modules/parts..... :	Module/parts of test item			Type		Manufacturer									
	No Data provided			.....		.....									
															
															
															

Accessories (not part of the test item)	Description	Type	Manufacturer
	No Data provided	.....	.....
			
			
			
			
			
Documents as provided by the applicant.....	Description	File name	Issue date
	Declaration Equipment Data	FDT30_18	2026-05-19
			
			
			

Identification of the client

Harman International Industries, Inc.
3001 Cabot Drive, Novi, MI 48377

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	05-26-2026
Date (finish)	07-01-2024

Document history

Report number	Date	Description
4553ERM.004	07-23-2026	First release
4553ERM.004A1	08-05-2026	Second release. Change the reference of the model name in the cover. This revised test report cancels and replaces test report 4553ERM.004
4553ERM.004A2	08-27-2026	Third release. Adding the header of TC#02. This revised test report cancels and replaces test report 4553ERM.004A1

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

1. The tests have been performed by the technical personnel: Prudhvi kothapalli, Abrahaye Gebrmichale and Yuri Barone.

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

Summary

FCC PART 15 PARAGRAPH / RSS-247 (Bluetooth BR/EDR)					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049 & § 15.247 (a) (1)	RSS-247 5.1 (b)	20dB Emission Bandwidth, Occupied Bandwidth & Carrier Frequency Separation	N/M	Refer 1
-	§ 15.247 (a) (1) (iii)	RSS-247 5.1 (d)	Number of hopping channels	N/M	Refer 1
-	§ 15.247 (a) (1) (iii)	RSS-247 5.1 (d)	Time of Occupancy (Dwell Time)	N/M	Refer 1
-	§ 15.247 (b) (3)	RSS-247 5.4 (b)	Maximum peak conducted output power and antenna gain	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§ 15.247 (d)	RSS-247 5.5	Emission limitations Radiated (Transmitter)	P	N/A
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

FCC PART 15 PARAGRAPH (Wi-Fi 2.4GHz)					
Report Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049 & §15.247 (a) (2)	RSS-247 5.2 (a)	99% Occupied Bandwidth & 6dB Bandwidth	N/M	Refer 1
-	§ 15.247 (b)	RSS-247 5.4 (d)	Maximum Output Power and antenna gain	N/M	Refer 1
-	§ 15.247 (d)	RSS-247 5.5	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (e)	RSS-247 5.2 (b)	Power Spectral Density	N/M	Refer 1
-	§15.247(d)	RSS-247 5.5	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§15.247 (d)	RSS-247 5.5	Emission limitations Radiated (Transmitter)	P	N/A
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

FCC PART 15 PARAGRAPH / RSS-247 (Wi-Fi 5GHz) UNII-1 5.150 - 5.250 GHz Band, UNII-3 5.725 - 5.825 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
	§ 15.403 KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	N/M	Refer 1
	§ 15.407 (e)	RSS 247 6.2.4.1	6dB Bandwidth	N/M	Refer 1
	§ 15.407 (a)(3)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	N/M	Refer 1
	§ 15.407 (a)(3)	RSS-247 6.2.4.1	Maximum Power Spectral Density	N/M	Refer 1
	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	N/M	Refer 1
A.1	§ 15.407 (b)(1), (b)(4)(i) § 15.209 § 15.205	RSS-247 6.2.4.2 RSS-Gen 8.9 & 8.10	Undesirable radiated emissions (Transmitter)	P	N/A
	§ 15.407 (g)	RSS-Gen 6.11 & 8.11	Frequency Stability	N/M	Refer 1
<u>Supplementary information and remarks:</u> 1) Only multi-transmitter radiated spurious emission test was requested.					

List of equipment used during the test

Radiated Measurements

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01014	FSV40 SIGNAL ANALYZER 40GHZ	RHODE & SCHWARZ	101626	FSV40	2026-10-04
01481	SEMI-ANECHOIC CHAMBER	FRANKONIA	-	SAC-3 Square L	---
01010	ESR7 EMI TEST RECEIVER	RHODE & SCHWARZ	101790	ESR7	2027-04-11
01108	ETHERNET SNMP THERMOMETER	HW GROUP	60038026954	HWg-STE Plain	2026-10-18
01213	CONTROL ROOM	FRANKONIA	F169021-1	CR	---
01473	ETHERNET SNMP THERMOMETER	HW GROUP	60038038777	HWg-STE Plain	2026-10-24
01111	ETHERNET SNMP THERMOMETER	HW GROUP	60038026577	HWg-STE Plain	2026-10-24
01564	CONTROL ROOM 2	FRANKONIA	F219025-1	CR	---
01567	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab02	RF Sq table	---
01179	SEMI-ANECHOIC CHAMBER	FRANKONIA	F169021	SAC 3plus 'L'	---
01057	3115 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (750 MHz-18 GHz)	ETS LINDGREN	00211373	3115	2026-07-18
01566	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab01	RF Sq table	---
01065	3142E BICONILOG ANTENNA	ETS LINDGREN	00208587	3142E	2028-02-03
01056	3116C DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (18-40GHz)	ETS LINDGREN	00213179	3116C	2027-02-23
00981	LOW NOISE PREAMPLIFIER (1-18GHz)	BONN ELEKTRONIK	1711156B	BLMA0118-2A	2027-02-21
01472	ETHERNET SNMP THERMOMETER	HW GROUP	60038038794	HWg-STE Plain	2026-10-24
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	RHODE & SCHWARZ	1040-OT102236	---	---

Appendix A: Test results (Multi-transmitter)

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PRODUCT INFORMATION

Information	Description
Technology	WLAN according to IEEE 802.11 a/b/g/n/ac
Operating Frequency Range	2400 – 2483.5 MHz
Modulation	BTEDR: GFSK, PI/4-DQPSK, 8DPSK Wi-Fi 2.4 GHz: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Number of Channels	BTEDR: 79 Wi-Fi 2.4 GHz: Ch 1-13 @2.4GHz; Ch 36-48; Ch 149-165 @5GHz
Nominal Channel Bandwidth	BTEDR: 2 MHz Wi-Fi 2.4 GHz: WLAN 2.4 GHz; 20 MHz BW
RF Output Power	BTEDR:NA Receiver only Wi-Fi 2.4 GHz: FCC: 2.4GHz < 15 dBm; 5GHz < 15dBm
Antenna type	BTEDR: External Antenna module Wi-Fi 2.4 GHz: Internal PCB trace antenna
Antenna gain	BTEDR: External Antenna module Wi-Fi 2.4 GHz: 4.5 dBi @2G4; 5,7 dBi @5GHz
Nominal Voltage	
- Type of power source	12V DC
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION															
TC#01 ⁽¹⁾	<u>Power supply (V):</u> DC 12 V <u>Test Frequencies for Radiated tests:</u> <table><tr><th>Technology</th><th>Tested Frequency</th><th>BW (MHz)</th><th>Modulation</th><th>Mode</th></tr><tr><td>Bluetooth</td><td>2402</td><td>1</td><td>DSSS</td><td>GFSK</td></tr><tr><td>Wi-Fi 2.4 GHz SISO</td><td>2462</td><td>20</td><td>OFDM</td><td>b mode</td></tr></table> The test was performed with the equipment transmitting with Bluetooth and Wi-Fi 2.4GHz radios simultaneously. These measurements have been performed in order to check the impact of the multi-transmitter of all radio interfaces that can be transmitting simultaneously.	Technology	Tested Frequency	BW (MHz)	Modulation	Mode	Bluetooth	2402	1	DSSS	GFSK	Wi-Fi 2.4 GHz SISO	2462	20	OFDM	b mode
Technology	Tested Frequency	BW (MHz)	Modulation	Mode												
Bluetooth	2402	1	DSSS	GFSK												
Wi-Fi 2.4 GHz SISO	2462	20	OFDM	b mode												
TC#02 ⁽¹⁾	<u>Power supply (V):</u> DC 12 V <u>Test Frequencies for Radiated tests:</u> <table><tr><th>Technology</th><th>Tested Frequency</th><th>BW (MHz)</th><th>Modulation</th><th>Mode</th></tr><tr><td>Bluetooth</td><td>2402</td><td>1</td><td>DSSS</td><td>GFSK</td></tr><tr><td>Wi-Fi 5 GHz SISO</td><td>5755</td><td>40</td><td>MCS0</td><td>n mode</td></tr></table> The test was performed with the equipment transmitting with Bluetooth and Wi-Fi 5GHz radios simultaneously. These measurements have been performed in order to check the impact of the multi-transmitter of all radio interfaces that can be transmitting simultaneously.	Technology	Tested Frequency	BW (MHz)	Modulation	Mode	Bluetooth	2402	1	DSSS	GFSK	Wi-Fi 5 GHz SISO	5755	40	MCS0	n mode
Technology	Tested Frequency	BW (MHz)	Modulation	Mode												
Bluetooth	2402	1	DSSS	GFSK												
Wi-Fi 5 GHz SISO	5755	40	MCS0	n mode												

Note (1): Preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in SISO (2.4 GHz or 5 GHz) + BT.

TEST A.1: EMISSION LIMITATIONS RADIATED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.247, Part 15.31(h), and RSS-247
	Test standard:	Part 15 Subpart C §15.247 (d) and RSS-Gen 8.9 and 8.10

Limits

USA FCC Part 15.207:

FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.247:

(d) radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

USA FCC Part 15.407:

FCC Rules and Regulations 47 CFR Part 15, Subpart E, Secs. 15.407:

(b)(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

(b)(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

USA FCC Part 15.209:

(a) the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100 ⁽¹⁾	40	3
88 - 216	150 ⁽¹⁾	43.5	3
216 - 960	200 ⁽¹⁾	46	3
Above 960	500	54	3

- Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Secs. Secs. 15.231 and 15.241

(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

(f) In accordance with Secs. 15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device shown in Secs. 15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in Secs. 15.205, the limit on spurious emissions specified for the intentional radiator whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with general radiated emission limits in Secs. 15.109 that are applicable to the incorporated digital device.

FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.109:

(g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in the Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment—Radio Disturbance Characteristics—Limits and Methods of Measurement" (incorporated by reference, see § 15.38). In addition:

(2) If, in accordance with § 15.33 of this part, measurements must be performed above 1000 MHz, compliance above 1000 MHz shall be demonstrated with the emission limit in paragraph (a) or (b) of this section, as appropriate. Measurements above 1000 MHz may be performed at the distance specified in the CISPR 22 publications for measurements below 1000 MHz provided the limits in paragraphs (a) and (b) of this section are extrapolated to the new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade), e.g., the radiated limit above 1000 MHz for a Class B digital device is 150 µV/m, as measured at a distance of 10 meters.

Frequency range (MHz)	Class A limits		Class B limits	
	AVG Limit for 3 m (1) (dBµV/m)	PK Limit for 3 m (1,2) (dBµV/m)	AVG Limit for 3 m (1) (dBµV/m)	PK Limit for 3 m (1,2) (dBµV/m)
1000 - 3000	60	80	54	74
3000 - 6000	60	80	54	74
6000 - 40000 ⁽³⁾	60	80	54	74

- Limits are specified by FCC at a distance of 10m and extrapolated here for 3m by adding inverse linear distance (1/d) proportionality factor of 20dB/decade, used per §15.31(f)(1)
- Frequencies above 1 GHz, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test, as per §15.35(b)
- According with the CISPR 22 (third Edition) There are no limits in the frequency range of 6 - 40 GHz, so expand the frequency range beyond 6GHz using the same limits.

• **FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.205:**

- (1) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

(MHz)	(MHz)	(MHz)	(GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and 1-18 GHz (Double ridge horn antenna), and 1m for the frequency range 18 GHz- 40 GHz (Double ridge horn antenna).

For radiated emissions in the range 18 - 40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

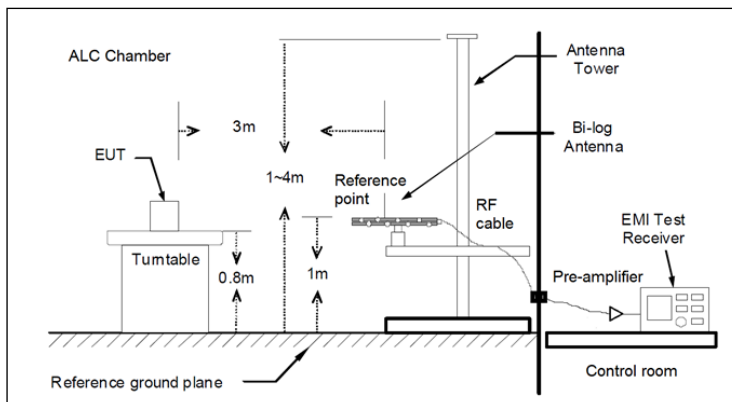
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

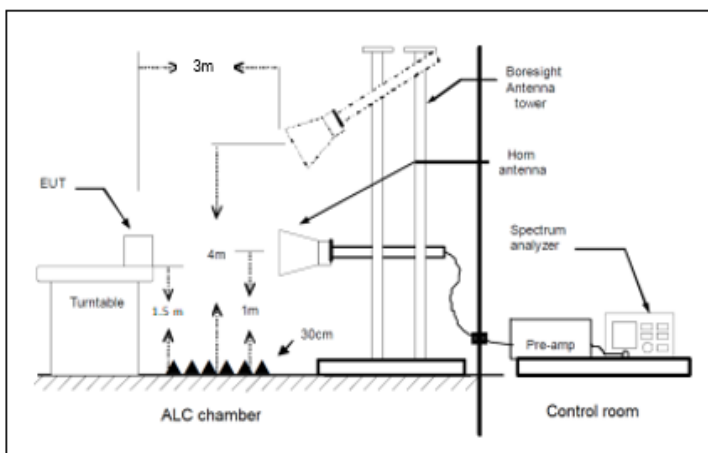
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

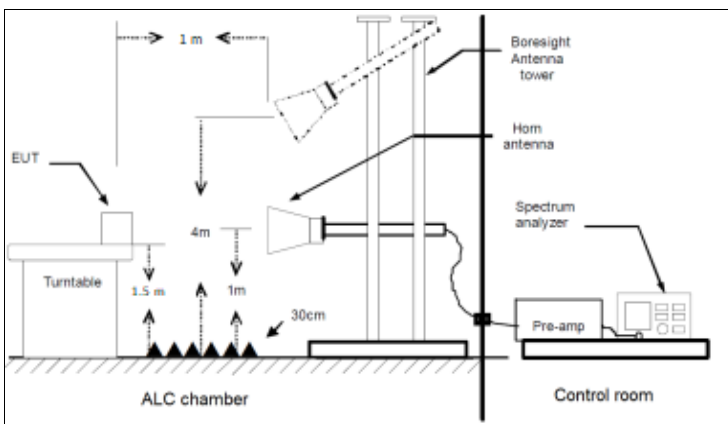
Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup f : 1-18 GHz



Radiated measurements setup $f > 18$ GHz



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	30-1000 MHz

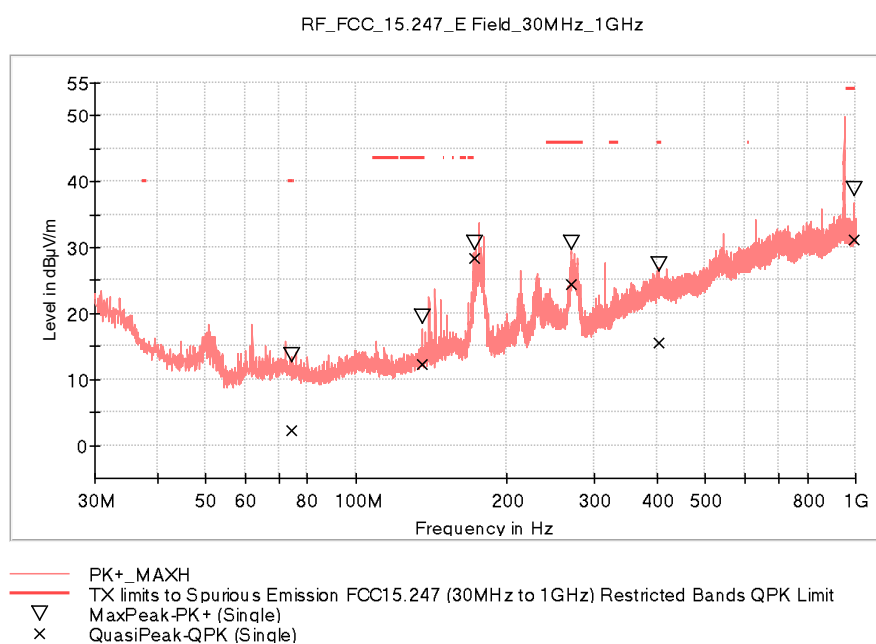
Frequency range 9KHz – 30 MHz

No radiofrequency signal generated in the device found below 10° sub-armonic, no further investigation required.

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

Results:



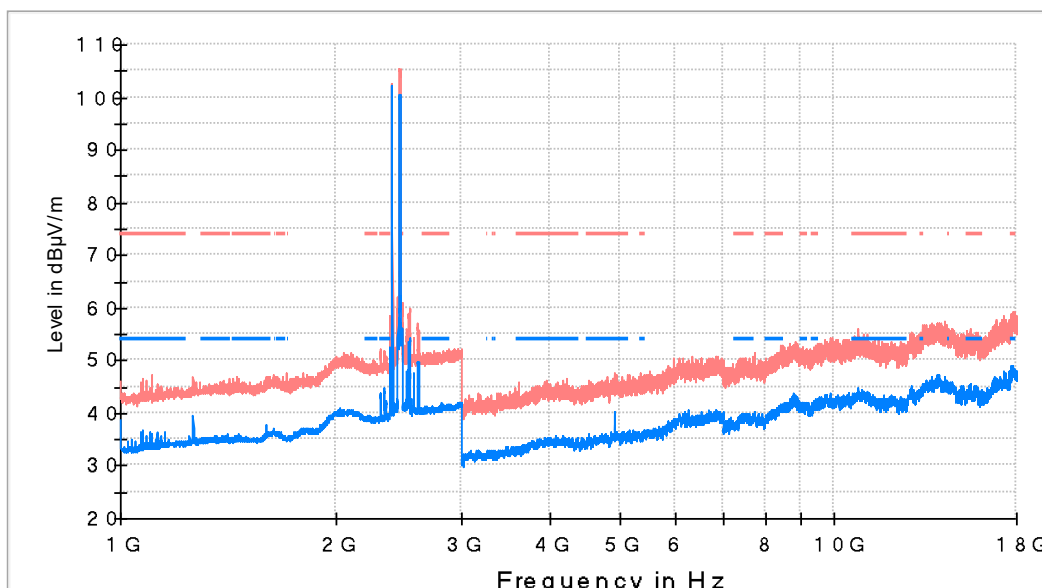
Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	QuasiPeak (dBuV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBuV/m)
74.280500	13.7	2.2	V	37.8	40.0
135.972500	19.6	12.3	H	31.3	43.5
172.008000	30.8	28.3	H	15.2	43.5
269.929500	30.7	24.4	V	21.7	46.0
403.256000	27.4	15.6	H	30.4	46.0
993.549500	38.8	31.1	H	22.9	54.0

TEST RESULTS (Cont.):

1-18 GHz

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



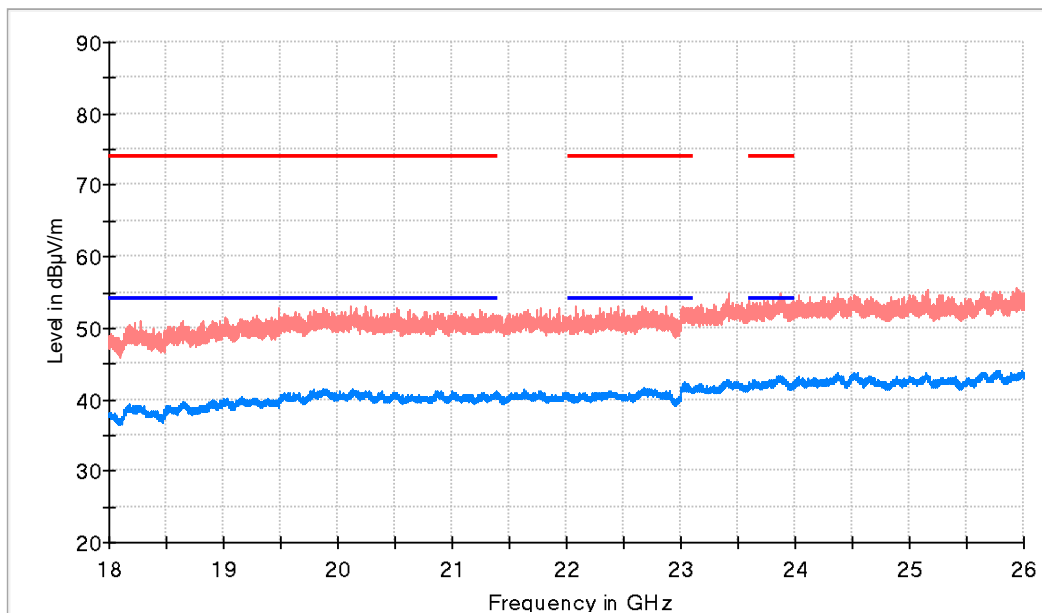
— PK+_MAXH
 — TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG
 - - TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 - - AVG_MAXH

Final Result

Frequency (MHz)	PK+_MAXH (dBuV/m)	AVG_MAXH (dBuV/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Comment
1125.000000	45.6	36.1	8.4	54.0	
2402.000000	102.8	102.1	---	---	BT Fundamental
2462.000000	105.2	100.4	---	---	WIFI Fundamental

TEST RESULTS (Cont.):

18 – 26 GHz



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
- TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit

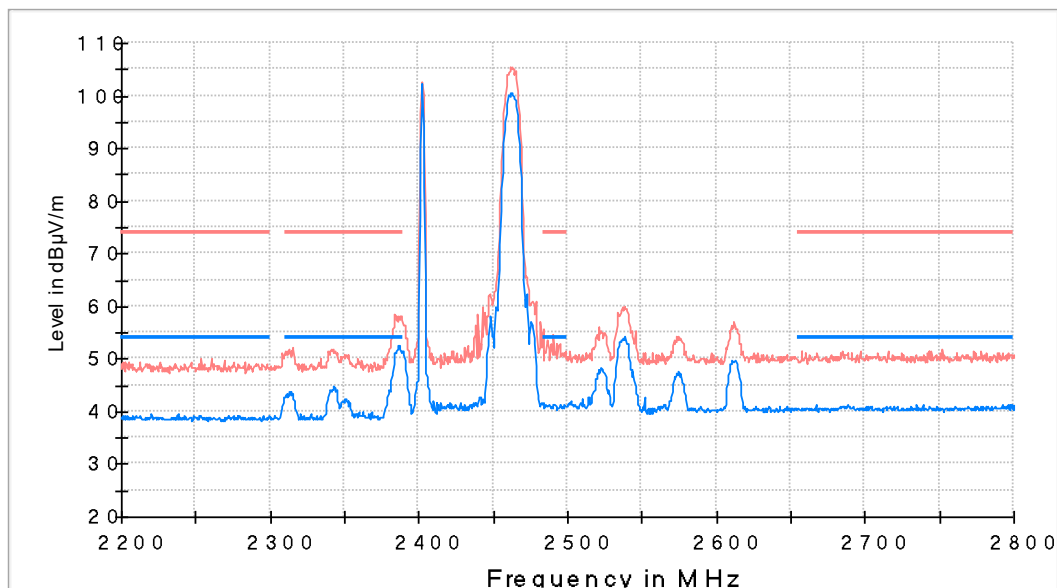
Final Result

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBμV/m)
18552.000000	51.5	41.7	V	12.3	54.0

TEST RESULTS (Cont.):

Restricted Bands (2.31 GHz – 2.5 GHz)

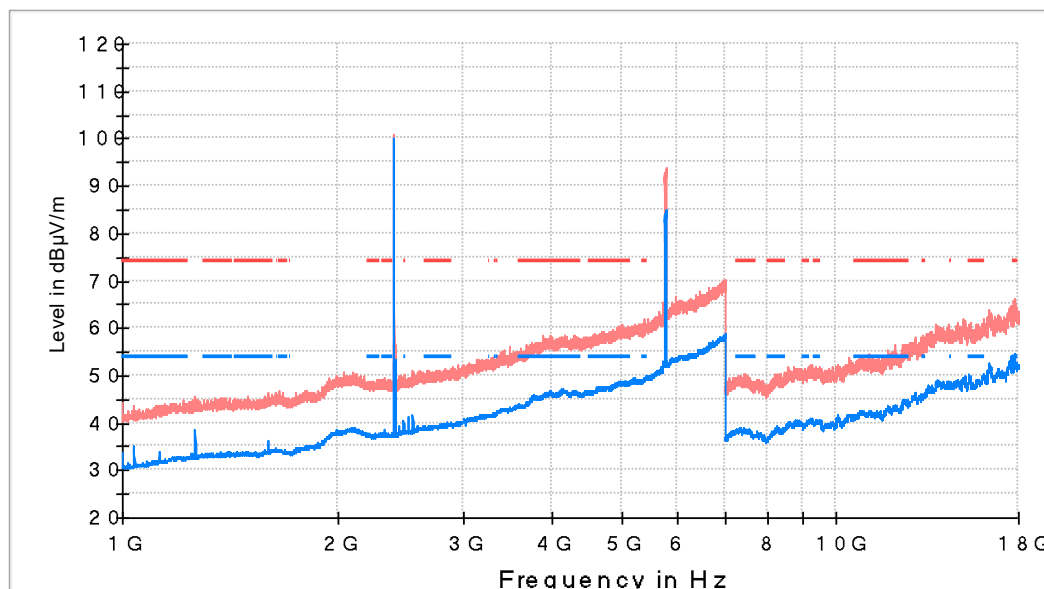
Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2



PK+_MAXH
 TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG
 TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 AVG_MAXH

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02
TEST RESULTS (Cont.):	1-18 GHz

RF_FCC_15.407_E Field_1GHz_18GHz_3m(SAC2)



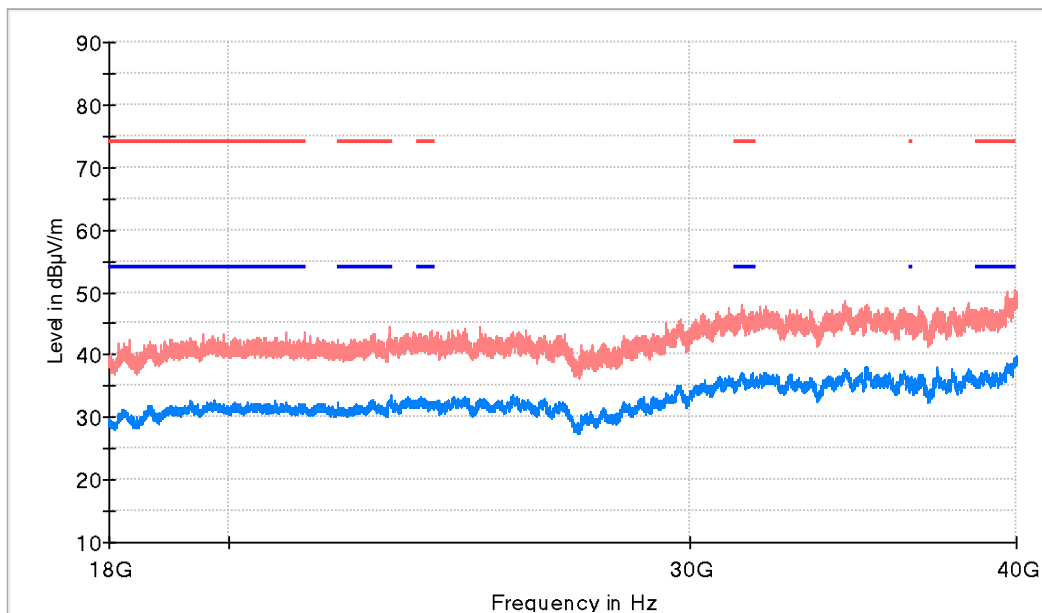
— PK+_MAXH
 — TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted E
 — TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted E
 — AVG_MAXH

Final Result

Frequency (MHz)	PK+_MAXH (dBuV/m)	AVG_MAXH (dBuV/m)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Comment
1038.500000	43.5	35.1	H	10.5	54.0	
2402.500000	100.0	95.6	V	---	---	BT Fundamental
5755.000000	89.0	78.4	H	---	---	WIFI Fundamental

TEST RESULTS (Cont.):

18 – 40 GHz



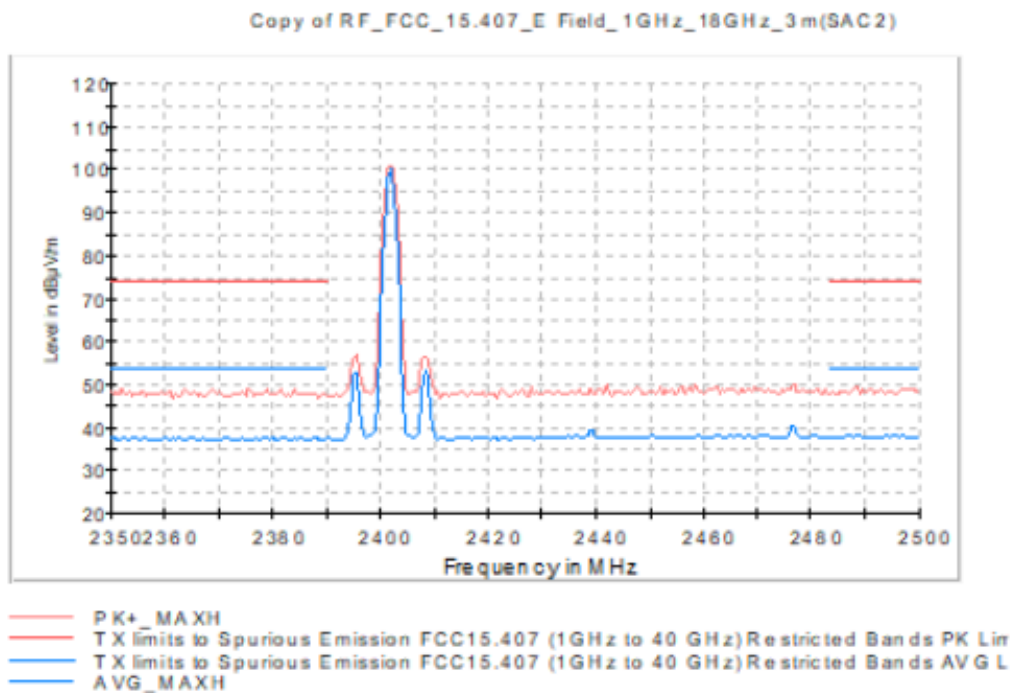
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit

Final Result

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBμV/m)
26058.625000	42.1	33.6	V	20.4	54.0

TEST RESULTS (Cont.):

Restricted Bands (2.3 GHz – 2.5 GHz)



TEST RESULTS (Cont.):

Restricted Bands (5 GHz – 6 GHz)

