

	ISED CABid: ES1909	Test Report No: NIE: 68832RRF.002
Test Report USA FCC Part 15.249, CANADA RSS-210, RS	15.209 SS-Gen	
(*) Identification of item tested	Airzone Main Control Boa	ard
(*) Trademark	AIRZONE	
(*) Model and /or type reference	AZxxxCBxANT	
Other identification of the product	HW version: 1.3 SW version: 3.3.0 FCC ID: SVS-CB-ANT IC: 24685-CB-ANT	
(*) Features	SRD 915 MHz	
Applicant	CORPORACIÓN EMPRE C/ Marie Curie, 21, 2959	ESARIAL ALTRA S.L. 0, Málaga, Spain
Test method requested, standard	USA FCC Part 15.249 (1 within the bands 902 - 92 5725 - 5875 MHz, and 24 USA FCC Part 15.209 (1 emission limits; general r CANADA RSS-210 Issue CANADA RSS-Gen Issue 2021). ANSI C63.10-2013: Ame Testing Unlicensed Wirel	0-1-20 Edition): Operation 28 MHz, 2400 -2483.5 MHz, 1.0 – 24.25 GHz. 0-1-20 Edition): Radiated equirements. 2 10 (December 2019). 2 5, Amendment 2 (February rican National Standard for less Devices.
Summary	IN COMPLIANCE	
Approved by (name / position & signature)	Rafael López EMC Consumer & RF La	b. Manager
Date of issue	2022-02-10	
Report template No	FDT08_23 (*) "Data provided by the cliv	ent"





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Competences and guarantees

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DEKRA Testing and Certification S.A.U. is an FCC-recognized accredited testing laboratory with the appropriate scope of accreditation that covers the performed test in this report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, with the appropriate scope of accreditation that covers the performed tests in this report.

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DEKRA Testing and Certification S.A.U. 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 Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. 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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Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

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").
- The sample consists of an Airzone Main Control Board, model AZxxxCBxANT. Electronic board that controls the system through wired and wireless devices. Externally powered at 230 Vac. Wall mounted.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of result.



Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial N ^o	Date of reception
68832B/023 (1)	Airzone Main Control Board	AZPV6IBPRO6A NT	000C1DLF	2021/06/17
68832B/057 (1)	Antenna			2021/06/17
68832B/024 (2)	Airzone Main Control Board	AZPV6IBPRO6A NT	000C1GXR	2021/06/17
68832B/056 (2)	Antenna			2021/06/17

Auxiliary elements used with the Sample S/01:

Control Nº	Description	Model	Serial N ^o	Date of reception
68832B/002	AC Power Cord			2021/06/17

Sample S/01 has undergone the following test(s): The Radiated tests indicated in the Appendix B:

(1) TX Low Channel tests.

(2) TX High Channel tests.

- Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
68832B/023 (1)	Airzone Main Control Board	AZPV6IBPRO6A NT	000C1DLF	2021/10/06
68832B/024 (2)	Airzone Main Control Board	AZPV6IBPRO6A NT	000C1GXR	2021/06/17

Auxiliary elements used with the Sample S/02:

Control Nº	Description	Model	Serial N ^o	Date of reception
68832B/002	AC Power Cord			2021/06/17

Sample S/02 has undergone the following test(s): The Conducted tests indicated in the Appendix B:

(3) TX Low Channel tests.

(4) TX High Channel tests.



Test sample description

Ports				Ca	ble			
	Port name and	Specified	Attac	hed	Shielded		d Coupled	
	description	max	during	test				to
		length [m]					pat	ient ⁽³⁾
	Airzone connection	100						
	Automation bus	100						
	Indoor unit bus	2						
	Motor output	15						
	Analog input: Alarm							_
	input	3			\bowtie			
	Anolog input:							
	Temperature probe	3			\boxtimes			
	Relay output:							
	VMC/Boiler	-						
	Relay Output:	-						
	ON/OFF machine							
	Power	-						
Supplementary information to the	-							
			_	Da	f			
Rated power supply	Voltage and Frequency	, -		Re	ference poles		es	
							N 2	PE
		;					2	
Pated Power								
Clock froguencies	0.4 W							
Other parameters								
Software version	330							
Hardware version	1 3							
Dimensions in cm (W x H x D)	1.5 195 x 180 x 55 5 mm							
Mounting position	\Box Table top equipr	nent						
	Wall/Ceiling mou	inted equipm	ent					
	Eloor standing e	nuipment						
	Hand-held equip	ment						
	Other:							
Modules/parts	Module/parts of test iter	m		Туре)	Ма	nufa	cturer
	Main control board			AZx>	xCBxA	AIR	ZON	IE
				NT				
	-							
	-							
Accessories (not part of the test	Description Type			Туре)	Manufacturer		cturer
item):	Thermostat and user in	terface Think	(AZC	E6THI	AIR	ZON	IE
	wireless			NKR	В			
	Thermostat and user in	terface Think	<	AZC	E6THI	AIR	ZON	IE
	wire NKCB							
	Circular damper with actuator CPCCXXXX AIRZON			ZON	IE			
				6WFBS	AIR	701	IF	
					UDC	7		-
				020	220			



	Gateway	AZX6GTCD	AIRZONE
		A1	
	-		
Documents as provided by the	Description	File name	Issue date
applicant:	Technical datasheet Main	FTAZxxxCB	
	Control Board	xANT_A4	
	-		
	-		

⁽³⁾ Only for Medical Equipment

Identification of the client

CORPORACIÓN EMPRESARIAL ALTRA S.L.

C/ Marie Curie, 21, 29590, Málaga, Spain

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2021-09-28
Date (finish)	2021-10-29

Document history

Report number	Date	Description
68832RRF.002	2022-02-10	First release.



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. = 20 % Max. = 75 %		

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

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. = 20 % Max. = 75 %



Remarks and comments

The tests have been performed by the technical personnel: Nicolás Salguero, Rafael Fernández, Francisco Javier Fernández and José Manuel Jiménez.

Used instrumentation:

Conducted Measurements: Last Calibration **Due Calibration** Shielded Room ETS LINDGREN S101 1. N/A N/A 2. Signal and Spectrum Analyzer 10 Hz - 40 GHz 2021/02 2023/02 ROHDE AND SCHWARZ FSV40 3. AC Power Supply 135/270 V, 5/10/20/40 A 2019/09 2022/09 ELGAR CS-AC35(351SL) Radiated Measurements: Last Calibration **Due Calibration**

1.	Semianechoic Absorber Lined Chamber ETS	N/A	N/A
2.	Shielded Room ETS LINDGREN S101	N/A	N/A
3.	Biconical/Log Antenna 30 MHz - 6 GHz ETS LINDGREN 3142E	2020/04	2023/04
4.	Preamplifier G>40dB 10MHz-6GHz, BONN ELEKTRONIK, BLNA 0160-01N	2021/03	2022/03
5.	EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7	2020/12	2022/12
6.	AC Power Supply 135/270 V, 5/10/20/40 A ELGAR CS-AC35(351SL)	2019/09	2022/09
7.	Digital Multimeter FLUKE 175	2021/11	2022/11
8.	Horn Antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2020/08	2023/08
9.	RF Preamplifier, 40 dB ,1-18 GHz BONN ELEKTRONIK BLMA 0118-1M	2021/06	2022/06
10.	Spectrum Analyzer ROHDE AND SCHWARZ FSW50	2020/07	2022/07



Testing verdicts

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

Summary

1. SRD 915 MHz:

FCC PART 15 PARAGRAPH / RSS-210							
Requirement – Test ca	se	Verdict	Remark				
FCC 15.249 (a) / RSS-210 B.10 (a)	Field strength of fundamental and harmonic emissions	Р					
FCC 15.249 (d) / RSS-210 B.10 (b)	Р						
Supplementary information and remarks: None.							



Appendix A: Test results. SRD 915 MHz



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TEST CONDITIONS

(*): Declared by the Applicant.

POWER SUPPLY (*):

Vnominal:	115 Vac

Type of Power Supply: Mains Supply.

ANTENNA (*):

Type of Antenna:	Internal (Monopole SMA)
Maximum Declared Antenna Gain:	-1.3 dBi

TEST FREQUENCIES:

Conducted Tests:

Low Channel:	915.20 MHz
High Channel:	917.20 MHz
Radiated Tests:	
Low Channel:	915.20 MHz
High Channel:	917.20 MHz

Declared Operating Channel Width (OCW): 200 kHz

The EUT is continuously transmitting.

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the spectrum analyser using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-10 GHz Double ridge horn antenna) is situated at a distance of 3 m.

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 (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization. A resolution bandwidth/video bandwidth of 100 kHz/300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.



Radiated measurements setup f < 1 GHz:



Radiated measurements setup from 1 to 10 GHz:





Occupied Bandwidth

LIMITS:

* RSS-Gen Issue 5, Clause 6.7 Occupied bandwidth (or 99% emission bandwidth) and x dB bandwidth:

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission. [...]

RESULTS:

• SRD 915 MHz:

	Low Channel	High Channel
99% Bandwidth (kHz)	73.14	72.96
-20 dBc Bandwidth (kHz)	79.347	79.29
Measurement Uncertainty (kHz)	<± 0.36	

Verdict: PASS

- Low Channel:

Spectrum						(m)
Ref Level 10.00 dam	BWT 10 ms = VB	W 3.842 W 10.842 Mode tiwaco				
1Pt.Viiw	100.00.00					
				notri Occ Bei		-0.01 at 79.3470 km 79.14000000 km
0 gim-				1 1 11	¥	0.09486 015.2230900 M64
-10 din			Am	mA		
-20 d5m		154			1	
-30 dbre-	01 -35.900 dBm				1	
40 4890 VV	·~~~	\sim			m	m
-50 dên						
60 dên						
-70 d8/2						
-60 dim						
CF 915.2 MHz			10000 pts			Spon 200.0 kHz
Marker	I mo I	W-control I	Advantation (I duordice I	the section of the se	
71 71 72 72 72 72 72 72	1 1 1 1 1 1 1 1 1 1	8 ************************************	-5.99 d3m -24.27 d8m -25.05 d8m -25.01 d8m -0.01 d9	Occ Bw	Fundler	78.14 kHz

DEKRA Testing and Certification, S.A.U. Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29507456



- High Channel:

Spectrum									(IIII) A
Ref Level 10.00 dam	# RBW 3	lintz							
w Att 25 dB BW	10 ms = VBW 10	sHz Mode Sweep	7						22
C Dr. Vinn					no Oc	tii a Gwe			-0.01.00 79.2900 kHz 72.955000000 kHz
() (Berr-			~		MI X	and and	Ť	1	-3.49 dbm 917.2160900 884z
-10 dim-					\sim				
-20 dim		15.7	/			2	อ้านเง		
-30 dln	2400 dam.						1		
fe der				-			~	m	m
-50 dim-									
-60 dlm									
-70 dbm									
-80 d8m									-
CF 917.2 MHz	1			1009	0 pts				Span 200.0 kHz
Marker	Ter: 1	X-soften	1.	Vessilan	- Decision	tion 1		Function Result	
MI T1 T2 M2 D3 M2	1 1 1 1 1	917 917	21039 MHz 15963 MHz 23259 MHz 156564 MHz 79.29 MHz	-5.40 -23.63 -24.70 -25.50 -0.1	dare dère dère la re 11 de	Osc Bw		- ADDEMON PREMIE	.72.96 kHz



FCC 15.249 (a) / RSS-210 B.10 (a) Field strength of fundamental and harmonics emissions

SPECIFICATION:

The field strength of emissions from intentional radiators shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (mV/m)	Field strength (dBµV/m)	Measurement distance (m)
902 - 928	50	93.98	3
2400 - 2483.5	50	93.98	3
5725 - 5875	50	93.98	3
24000-24250	250	107.96	3

For frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

RESULTS:

• SRD 915 MHz:

	Low Channel	High Channel	
Field Strength (dBµV/m) Peak	81.81	82.61	
Field Strength (dBµV/m) Average	81.42	82.20	
Measurement Uncertainty (dB)	<± 4.68		

Verdict: PASS



- L

# Att 10 dB	SWT 10 ms . VBW 3 MHz	Mode Sweep	Input 1 AC					
1Pk View 2Av View			//////////////////////////////////////					
				ND	121			01.42 dB
				(MI	[1]			015.210000 01.01 dB
i0 db.A/m						<u> </u>	ĩ	935.22940
				safet	-			
IO dBu///m			Contraction of the local division of the loc	Contraction of the local division of the loc	and the second se			
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	and the second division of the second divisio					and the second se	2 20	
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Statistic statistics in the state	all and the second second						and and the state	
								Contraction des
0 dB;/V/m								
2220.00								
0 d84/v/m								
it dbiol/m								
o untriviu								
0 dbu///m								
0 dBu/v/m								
0 dligivimi								
0.05.2224.040.5								
E 015 0 Miles			1004	10				Brinn & D
eceiver Spectrum		-						
Ket revel 100.00 geh//m	W NBW I NHE	agent starter						
Att 10 dB	SWT 10 mt . VBW 3 MHz	Mode Sweep	Input 1 AC					
Att 10 dB TOF 1Pk View@2Ay View	SWT 10 ms . VBW 3 MHz	Mode Sweep	Input 1 AC					
Att 10 dB TOF IPE View@2Ax View	SWT 10 ms . VBW 3 MHz	Mode sweep	Input 1 AC	м	(1)			82.61 00
Att 10 dB TOF IPE View@2Av View	SWT 10 mz . VBW 3 MHz	Mode sweep	Input 1 AC	M	(1)			82.61 d9 917.23100 82.20 d0
Att 10 dB FOF IPE View@2Av View	SWT 10 ms + VBW 3 MHs	Mode Sweep	Input 1 AC	MI Mi	(1) (7)		2	82.61 d9 917.23100 62.20 d0 917.161000
Att 10 dB IOF 191 View 2Av View 0 d5µv/m	SWT 10 mz VBW 3 MHz	Mode Sweep	Input 1 AC	ATI NI	(1) (7)		Î	82.61 dB 917.23100 62.20 dB 917.16100
Att 10 dB IGF IPL View 2Av View 0 dBµv/m	SWT 10 mz VBW 3 MHz	Mode sweep	Input 1 AC	MI MI	(1) (7)		Î	82.61 d9 917.23100 62.20 d8 917.161000
Att 10 dB (0)F 10 View @2Ax View 0 dBuV/m 0 dBuV/m	SWT 10 mz VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI MI	(7)		Î	82.61 d9 917.23100 82.20 d8 917.16100
Att 10 dB (0)F 10 View●2Ax View 0 dBµV/m 0 dBµV/m	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI Mi	(7)			82.61 d0 917.23100 82.20 d0 917.16100
Att 10 dB IGF 10 View●2Av View 0 d6µV/m 0 d6µV/m	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI MI	(7)			82.61 d0 917.23100 82.20 d0 917.16100
Att 10 dB TGF 10 10 Usew●2Av View 0 dBµV/m 0 dBµV/m 0 dBµV/m 10 dBµV/m	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI Mi Mi	(7)			82.61 d9) 917.23100 82.20 d9) 917.10100
Att 10 dB IOF 10 dB 0 dBµv/m 0 dBµv/m 0 dBµv/m 0 dBµv/m 10 dBµv/m	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI Mission et al.	(7)			82.61 d9 917.23100 82.20 d9 917.11100
Att 10 dB IOF 10 dB IOF 0 dBµ//m 0 dBµ//m 0 dBµ//m 0 dBµ//m 0 dBµ//m	SWT 10 mz • VBW 3 MHz	Mode Swood 1	Input 1 AC	MI MI Mission et al.	(7)			82.61 d9 917.23100 82.20 d9 517.11100
Att 10 dB CoF 10 dB O dBµv/m 0 0 dBµv/m 0	SWT 10 mz • VBW 3 MHz	Mode Swood 1	Input 1 AC	MI MI Mi Ministration	(7)			82.61 d9) 917.23100 82.20 d9) 917.111000
Att 10 dB CoF 10 dB O dBµ/v/m 0 0 dBµ/v/m 0	SWT 10 mz • VBW 3 MHz	Mode Swood 1	Input 1 AC	MI MI Mi Ministration	(7)			82.61 d9 917.23100 82.20 d9 917.111000
Att 10 dB IOF 10 dB IOF 2Av View 0 dBy/v/m 0 0 dBy/v/m 0 0 dBy/v/m 0 0 dBy/v/m 0	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI Mi Mi Mi	(7)			82.61 d9 917.23100 82.20 d9 917.11100
Att 10 dB IOF 10 dB IOF 2Av View 0 dBµv/m 0	SWT 10 mz • VBW 3 MHz	Mode Sweep 1	Input 1 AC	MI MI MI	(7)			82.61 d9 917.23100 82.20 d9 517.11100
Att 10 dB CoF 10 dB D dBuv/m 0 dBuv/m D dBuv/m 0 dBuv/m D dBuv/m 0 dBuv/m D dBuv/m 0 dBuv/m	SWT 10 mz • VBW 3 MHz	Mode Sweep 1	Input 1 AC	MI MI MI	(7)			62.61 d9 917.23190 82.20 d9 537.16100
Att 10 dB IOF 10 dB IOF View●2Av View 0 dBµv/m 0	SWT 10 mz • VBW 3 MHz	Mode Sweep	Input 1 AC	MI MI MI	(7)			62.61 d9 917.23100 82.20 d9 537.11100
Att 10 dB Op 10 dB IPL View ●2Av View 0 0 dBµ/v/m 0	SWT 10 mz • VBW 3 MHz	Mode Sweep 1	Ma	MI MI				62.61 d9 917.23190 82.20 d9 537.16100
Att 10 dB DoF 10 dB IPL View@2Av View 0 0 dBµv/m 0	SWT 10 mz • VBW 3 M4z	Mode Sweep 1	Ma	MI MI				62.61 d9 917.23190 82.20 d9 537.16100
Att 10 dB Op 10 dB IPL View @2Av View 0 0 dBµV/m 0	SWT 10 mz • VBW 3 M4z	Mode Swoop 1	M2					62.61 d9 917.23190 82.20 d9 537.11100
Att 10 dB DoF 10 dB 10 dBµv/m 0 dBµv/m 0 dBµv/m 0 dBµv/m	SWT 10 mz • VBW 3 M4z		Mg	MI MI				62.61 d9 917.231904 82.20 d9 517.11100
Att 10 dB DF View @2Av view 0 dBµV/m 0	SWT 10 mz • VBW 3 M4z		Mg					62.61 d9 917.231904 82.20 d9 517.11100
Att 10 dB Diff View @2Ax view D dBµV/m 0 D dBµV/m 0	SWT 10 mz • VBW 3 M4z		Mg					82.61 dB) 917.23100 82.20 dB 937.16100 937.16100
Att 10 dB CoF 10 dB D dBuV/m 0 0 dBuV/m 0	SWT 10 mz • VBW 3 M4z		Mg					82.61 dB) 917.23100 82.20 dB 937.16100 937.16100
Att 10 dB TDF 10 dB IPL View●2Av View 0 0 dB_u/v/m 0	SWT 10 mz • VBW 3 MHz		M2					82.61 d9) 917.23100 82.50 d9 917.16100 917.16100

CF 917.2 MHz

10000 pts

Span 4.0 MHz



FCC 15.249 (d) / RSS-210 B.10 (b) Emissions radiated outside of the specific frequency bands

SPECIFICATION:

The field strength of harmonics from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of harmonics (µV/m)	Field strength of harmonics (dBµV/m)	Measurement distance (m)
902 - 928	500	54	3
2400 - 2483.5	500	54	3
5725 - 5875	500	54	3
24000-24250	2500	67.96	3

Emissions radiated outside of the specific frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits specified in section 15.209:

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	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

Whichever is the lesser attenuation.

RESULTS:

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.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-10 GHz.

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.



Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies detected at less than 20 dB below the limit:

Spurious Frequency (MHz)	Emission Level (dBµV/m)	Polarization	Detector
189.32250	27.04	V	Quasi Peak
382.44950	28.17	V	Quasi Peak

Measurement Uncertainty (dB) <± 5.01

Frequency range 1 - 10 GHz:

The results in the next tables show the maximum measured levels in the 1-10 GHz range.

Spurious frequencies with peak levels above the average limit (54 dB μ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

In this case, there is no frequency with peak level above the average limit (54 dBµV/m at 3 m).

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious Frequency (MHz)	Emission Level (dBµV/m)	Polarization	Detector
1830.400000	43.68	Н	Peak
5491.250000	48.46	Н	Peak

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious Frequency (MHz)	Emission Level (dBµV/m)	Polarization	Detector
1834.400000	41.33	Н	Peak
5503.250000	50.44	Н	Peak

Measurement Uncertainty (dB) $<\pm$ 4.22

Verdict: PASS

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FREQUENCY RANGE 30 MHz - 1 GHz:

This plot is valid for all channels.



The peak above the limit is the carrier frequency.



FREQUENCY RANGE 1 - 3 GHz:





- High Channel:





FREQUENCY RANGE 3 - 10 GHz:

- Low Channel:



- High Channel:

