



FCC Part 15C TEST REPORT	FCC	Part	15C	TEST	REPO	DRT
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Report Number		047/23/02961	/FCC	Rev. 01		
Date of document			2024-03-07			
Total number of pages			Pag. 56	Pag. 56		
OBJECT			FCC Part15C			
CUSTOMER			PROTOS Gm	bH		
EQUIPMENT UN	IDER TEST -	DESCRIPTION	Bluetooth Hea	adset		
MODEL		втсом				
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Tested by (Name + Signature) MARCO NICOLE' Test engineer						
Verified by (Name + Signature)ANDREA CUPIDO Lab Manager						
Approved and issued by (Name + Signature) ALESSANDRO ZU Lab Director		ALESSANDRO ZUO	CCATO			





History sheet of test Report

Report Number Rev. Date		Description of modification		
047/23/02961/RED	R00	2023-04-13	Initial Test report	
047/23/02961/RED	R01	2024-03-07	_ · · · · · · · · · · · · · · · · · · ·	
			sidebars in the document)	





1 OBJECT OF THE TESTS

The objective of the tests is the evaluation of the conformity of the EUT to the requirements of the standards and test methods specified on par. 4 of present Test Report.

2 IDENTIFICATION

2.1 Laboratory

Name :	Kiwa Creiven S.r.l.
Street:	Corso Spagna, 12
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FCC Designation	
number:	IT0016
ISED CAB Identifier:	IT0007

2.2 Customer

Customer: Street: City: Phone:	PROTOS GmbH Herrschaftswiesen 11 6842 Koblach - Austria +43 59 50 50-200
Phone:	+43 59 50 50-200
Refer to :	Anton Armin Pfanner

3 EQUIPMENT UNDER TEST (EUT)

3.1 EUT identification (declared under responsibility of the customer)

EUT Description: Model:	Bluetooth Headset BTCOM
Code:	
Serial N°:	P2P4Z, P2P41
Software release:	2.1
Size:	220 x 110 x 40 [mm]
Supply voltage:	4.1 V c.c.
Rated Electrical Power:	0.41 W
Rated input current:	400 mA
FCC ID:	2A98QBTCOM

3.2 EUT classifications

1

The manufacture declared the following classification:

Object	Descriptions
Operating Frequency	2,4 – 2,4835 GHz
Equipment type	Bluetooth classic
Channel spacing	1 MHz (BT classic)
Number of Channels	80 for Bluetooth classic
Antenna Type	Integrated antenna PIFA
Antenna Peak Gain	1.3 dBi
Frequency Hopping Spread Spectrum	YES
Extreme Temperature Range	0°C ÷ +50°C
Manufacturer declaration	03005LP
In case of FHSS modulation	In case of Adaptive Frequency Hopping Equipment: The maximum number of Hopping Frequencies: 80 (BT) The minimum number of Hopping Frequencies: 20 The (average) Dwell Time: 6.25 ms
Adaptive / non-adaptive equipment	 non-adaptive Equipment adaptive Equipment without the possibility to switch to a non-adaptive mode adaptive Equipment which can also operate in a non-adaptive mode





3.3 **EUT** additional information

Object	Descriptions
Classification of installation and use	 Stand-alone Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment) Plug-in radio device (Equipment intended for a variety of host systems) Other
Means for connection to the supply:	 Supply cord fitted with a plug Supply cord without plug (for permanently connection to fixed wiring) Appliance inlet Appliance provided with a set of terminals allowing the connection of cables or fixed wiring
Date of receipt of test item	2023-02-06
Date(s) of performance of tests	See the data specified in test results details

3.4 EUT cables

The EUT has been configured by the manufacturer with the following input / output cables:

		Cable			
Classification	Description	Shielded	Specified max. length	note	
DC power port (used only for the recharge)	d.c. input cable		☐ none ⊠ ≤ 1m ☐ ≤ 3m ☐ ≤ 10m	type of power source: Internal Power Supply External Power Supply or AC/DC adapter Battery Other	

3.5 **EUT Auxiliary Equipments (AEs)**

To ensure the correct functioning of the EUT, it has been necessary to make use of the following auxiliary equipment (AE):

Auxiliary Equipment AE N°01

Description :	DC power supply
Model:	LABPS3003
Manufacturer:	VELLEMAN
Auxiliary Equipment AE N°02	
Description :	Laptop + debugger

Laptop + debugger Manufacturer: ASUS

Sampling and adopted criteria 3.6

Equipment used for testing was selected by the customer. Sampling criteria adopted by the customer is unknown to Kiwa Creiven laboratory.

EUT documents 3.7

Model:

The following documentations have been provided by the customer

Kiwa Creiven document reference	Descriptions
03005LP	Manufacturer declaration

STANDARDS AND TEST METHODS 4

4.1 **Reference standards**

DOCUMENT	DATE	OBJECT
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Note: KDB 558074 D01 v05r02 taken into consideration.





4.1.1 Test summary

The following table specifies the tests required by the reference standard and test performed on EUT.

TEST	FCC Rule	Note	Results
20 dB Bandwidth	§15.215 (c)		Complies
Channel Separation	§15.247 (a)(1)		Complies
Minimum Hopping Channel	§15.247 (a)(1)(iii)		Complies
Dwell Time	§15.247 (a)(1)(iii)		Complies
Peak Output Power (Conduction)	§15.247 (b)(3)		Complies
Spurious Emissions (Radiation)	§15.209		Complies
Band edge measurement	§15.247 (d)		Complies
Power-line conducted emissions	§15.207		Complies

4.2 Test methods

DOCUMENT	DATE	METHOD	ACCREDIA accreditation	Test Sequence (See Note 1)
C63.10	2013	20 dB Bandwidth	Yes	01
C63.10	2013	Channel Separation	Yes	03
C63.10	2013	Minimum Hopping Channel	Yes	04
C63.10	2013	Dwell Time	Yes	07
C63.10	2013	Peak Output Power (Conduction)	Yes	05
C63.10	2013	Spurious Emissions (Radiation)	Yes	02
C63.10	2013	Band edge measurement	Yes	06
C63.10	2013	Standard test method for ac power-line conducted emissions from unlicensed wireless devices	Yes	08
Note : 1) The tests have been	carried ou	t in the order specified in this column		

4.3 Deviation from test methods

None.





5 EUT OPERATING CONDITIONS DURING TESTS

The EUT was set to function as indicated in Table 1, in compliance with the manufacturer's prescriptions and with that which is stated in the applied standards, test methods and procedures.

OPERATING CONDITION	DESCRIPTION OF FUNCTIONING
	EUT details : during the test the EUT
	was powered at 4.1 Vdc
	 was in continuous working state/ Device operated in standard continuous transmit mode (Cont
	TX function)
TX01	Lowest frequency activated (2402 MHz) – <u>Classic Bluetooth</u>
	Was set packet type DH5 or 2-DH5 or 3-DH5 and was report the worst case
	Was set TX power to 20 dBm
	Was set Ext 255 and Int 50
	<u>AE details : during the test the Auxiliary Equipment (AE), connected to EUT, was :</u> <u>AE N804 encreated to Device events of EUT</u>
	AE N°01 connected to Power supply of EUT
	AE N°02 connected only to set the device
	EUT details : during the test the EUT was powered at 4.1 Vdc
	 was powered at 4.1 Vdc was in continuous working state/ Device operated in standard continuous transmit mode (Cont
	TX function)
	 Medium frequency activated (2441 MHz) – <u>Classic Bluetooth</u>
TX02	 Was set packet type DH5 or 2-DH5 or 3-DH5 and was report the worst case
	 Was set TX power to 20 dBm
	• Was set Ext 255 and Int 50
	AE details : during the test the Auxiliary Equipment (AE), connected to EUT, was :
	AE N°01 connected to Power supply of EUT
	 AE N°02 connected only to set the device
	EUT details : during the test the EUT
	was powered at 4.1 Vdc
	was in continuous working state/ Device operated in standard continuous transmit mode (Cont
	TX function)
ТХ03	Highest frequency activated (2480 MHz) – <u>Classic Bluetooth</u>
1705	 Was set packet type DH5 or 2-DH5 or 3-DH5 and was report the worst case
	Was set TX power to 20 dBm
	• Was set Ext 255 and Int 50
	<u>AE details : during the test the Auxiliary Equipment (AE), connected to EUT, was :</u> <u>AE N804 service to EUT, was :</u>
	AE N°01 connected to Power supply of EUT
	AE N°02 connected only to set the device
	EUT details : during the test the EUT was powered at 4.1 Vdc
	 was powered at 4.1 Vdc was in continuous working state/ Device operated in hopping mode
	Classic Bluetooth activated
TX07	Was set TX power to 20 dBm
	 Was set Ext 255 and Int 50
	 AE details : during the test the Auxiliary Equipment (AE), connected to EUT, was :
	 AE N°01 connected to Power supply of EUT
	 AE N°02 connected only to set the device
	EUT details : during the test the EUT
	 was in recharge mode (AE N°01 powered with 120V @60Hz)
OC09	Radio transmission not activated
	<u>AE details : during the test the Auxiliary Equipment (AE), connected to EUT, was :</u>
	EUT connected via USB to AE N°02





6 TEST RESULTS

	FCC part 15 C - §15.215 (c)
Test method:	20 dB Bandwidth
	For details see par. 4 of this report
Operator	Marco Nicolè
Test Date	2023-02-23
Test Temperature	21 °C
Test Humidity	30 %
Test Pressure	1001 hPa
Electrical wiring	Cable Length [m]
	D.c. input cable 3.0
	TX01; TX02; TX03
Operating conditions	See par. 5 of this report
Auxiliary equipment (AE)	See par. 3.5 of this report
Limits	The minimum 20 dB bandwidth shall be at least 500 kHz.
Test set up	EUT
Test instrumentations	See Annex B
Measurement Uncertainty (k=2)	See Annex F





Operating condition	20 dB bandwidth	LIMIT	RESULT
TX01	986.3 kHz	At least 500 kHz	COMPLIES
TX02	976.5 kHz	At least 500 kHz	COMPLIES
TX03	981.4 kHz	At least 500 kHz	COMPLIES
Test Procedure	RBW = 100kHz VBW ≥ 3 x RBW Sweep = auto Detector function = p Trace = max hold The EUT should be t the marker-to-peak fu delta function to mea function, and move th possible to) even with the 20 dB bandwidth	ectrum analyser settings: weak ransmitting at its maximum data rate. Allow the trace to st unction to set the marker to the peak of the emission. Use usure 20 dB down one side of the emission. Reset the marker he marker to the other side of the emission, until it is (as of h the reference marker level. The marker-delta reading at of the emission. If this value varies with different modes of ulation format, etc.), repeat this test for each variation.	the marker- rker-delta lose as this point is
EUT modification this test	n during None		

Test result TX01



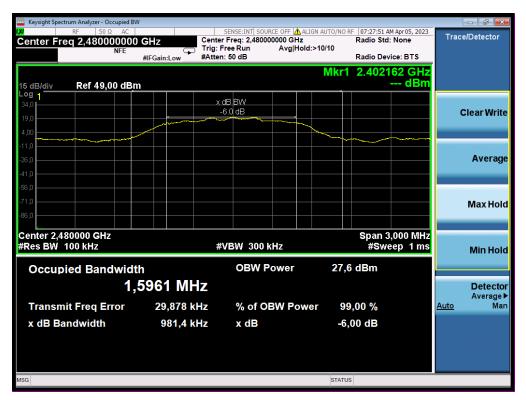




Test result TX02



Test result TX03





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	500 mont 45 0 S45 047 (-)(4)	
Test method:	FCC part 15 C - §15.247 (a)(1) Channel Separation	
rest metriod.	For details see par. 4 of this report	
Operator	Marco Nicolè	
Test Date	2023-03-22	
Test Temperature	23 °C	
Test Humidity	41 %	
Test Pressure	1009 hPa	
	Cable	Length [m]
Electrical wiring	D.c. input cable	3.0
	TX07	
Operating conditions	See par. 5 of this report	
Auxiliary equipment (AE)	See par. 3.5 of this report	
Limits	Frequency hopping systems shall have hopping channel carrier frequencies minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, which	es separated by a ver is greater
Test set up	EUT Spectr	um analyzer
Test instrumentations	See Annex B	
Measurement Uncertainty (k=2)	See Annex F	





Test result	Operative condition		Channel separation value [dB]	LIMIT [dB]	RESULT
1		TX07	24.158	20	COMPLIES
Test result	Operative condition		Channel separation value [kHz]	LIMIT [kHz]	RESULT
3	TX07		1043	25	COMPLIES
The EUT have its hopping function enabled. Use the following spectrum analyser Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-delta function to determine the separa between the peaks of the adjacent channels.			-		
EUT modification during his test		None			





Test result 1



Test result 3





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	FCC part 15 C - §15.247 (a)(1)(iii)	
Test method:	Minimum Hopping Channels	
rest method.	For details see par. 4 of this report	
Operator	Marco Nicolè	
Test Date	2023-03-22	
Test Temperature	23 °C	
Test Humidity	41 %	
Test Pressure	1009 hPa	
Electrical wiring	Cable	Length [m]
Electrical wining	D.c. input cable	3.0
	TX07	
Operating conditions	See par. 5 of this report	
Auxiliary equipment (AE)	See par. 3.5 of this report	
Limits	Frequency hopping systems in the 2400–2483.5 MHz band shall use at leas	at 15 channels
Test set up	EUT Spectr	um an <mark>aly</mark> zer
Test instrumentations	See Annex B	
Measurement Uncertainty (k=2)	See Annex F	



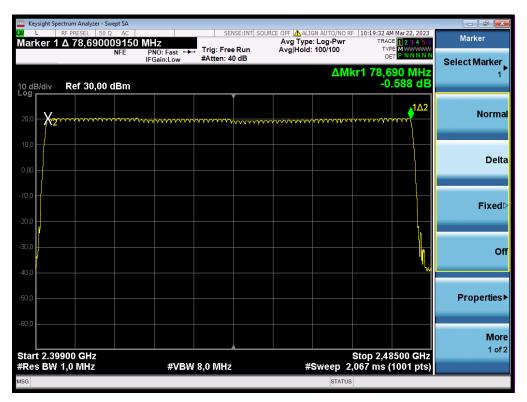


Test result	Operative condition	Hopping Channel	Minimum hopping channels	RESULT	
1	TX07	79	15	COMPLIES	
Test Procedure	Use Spa RB VB' Sw Det Tra Allo	The EUT have its hopping function enabled. Use the following spectrum analyser settings: Span = the frequency band of operation RBW ≥ 1% of the span VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. It may prove necessary to break the span up to sections, in ord to clearly show all of the hopping frequencies.			
EUT modification during this test					





Test result 1





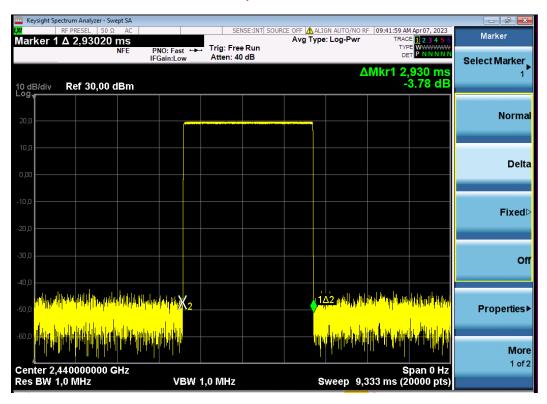


		FCC part 15 C	- §15.247 (a)(1)(iii)			
Test method:		Dwell Time	- 313.247 (d)(1)(iii)			
			par. 4 of this report			
Operator		Marco Nicolè				
Test Date		2023-04-07				
Test Temperat	ure	21 °C				
Test Humidity		31 %				
Test Pressure		1009 hPa				
Electrical wirin	n	Cable				Length [m]
	9	D.c. input cable				3.0
Operating cond	ditions	OC07 See par. 5 of thi	is report			
Auxiliary equip	ment (AE)	See par. 3.5 of t	this report			
Limits Test set up			ne of occupancy on any o seconds multiplied by the		nels emplo	
-						
Test instrumen		See Annex B				
Measurement (k=2)	Uncertainty	See Annex F			I	
Packet Type	Size	N	Measured time duration of transmission [ms]	Calculation formula	Final value	RESULT
DH5	339	6	2.93	(1600 / 6) * 2.93 < 1	0.781< 1	COMPLIES
Test Procedure	The EUT must have its hopping function enabled. Use the following spectrum analyser settings: Span = zero span, centred on a hopping channel RBW ≤ Channel Separation Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold If possible, use the marker-delta function to determine the dwell time.					
EUT modificati this test	dification during None					





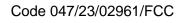
Spectral Plot







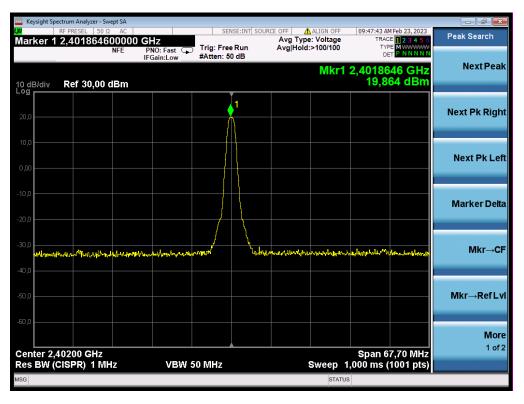
		FCC part 15 C - §	315.247 (b)(3)			
Test method:		Peak Output Pov	ver			
		For details see pa	r. 4 of this report			
Operator		Marco Nicolè				
Test Date		2023-02-23				
Test Temperature		21 °C				
Test Humidity		30 %				
Test Pressure		1001 hPa				
Electrical wiring		Cable				Length [m]
Ũ		D.c. input cable	0			3.0
Operating condition	าร	TX01; TX02; TX03				
		See par. 5 of this				
Auxiliary equipmen	t (AE)	See par. 3.5 of thi				
Limits		 1 Watt (f 	g digital modulation or device with chan att (for device with c	nels > 75)	MHz bands:	
Test set up Test instrumentatio Measurement Unce		EUT See Annex B See Annex F			♀ Spect	trum analyzer
(k=2)						
BLUETOOTH CLASS	SIC				1	
OPERATING CONDITION	FI	REQUENCY [MHz]	Peak Power [dBm]	LIMIT [dBm]	LIMIT [W]	RESULT
TX01		2401	+19.864	+30	1	COMPLIES
TX02		2440	+20.080	+30	1	COMPLIES
TX03		2479	+19.759	+30	1	COMPLIES
Test Procedure		The measurement will be conducted at three channels: Bluetooth: Low, middle and High, Set the spectrum analyzer as RBW = 1MHz, VBW =50MHz, Span = >10MHz, Sweep=aut Detector = Peak, Trace mode = max hold				
EUT modification d this test	uring	None				



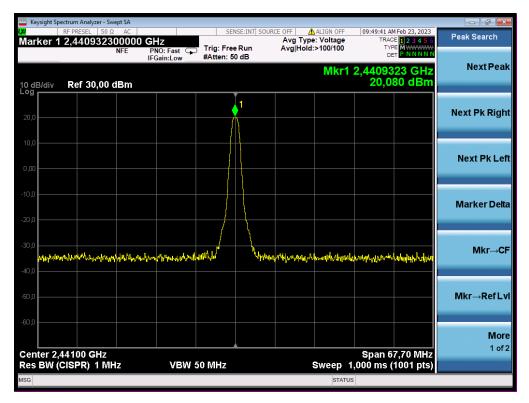




Test result TX01



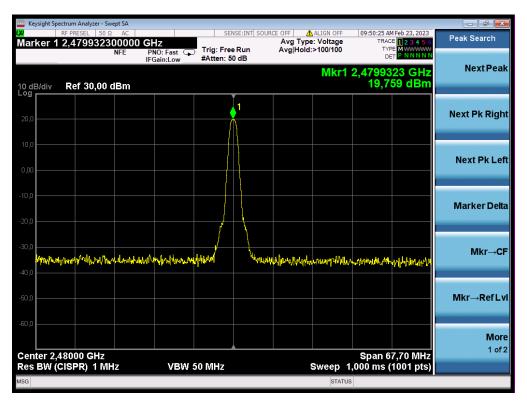
Test result TX02







Test result TX03



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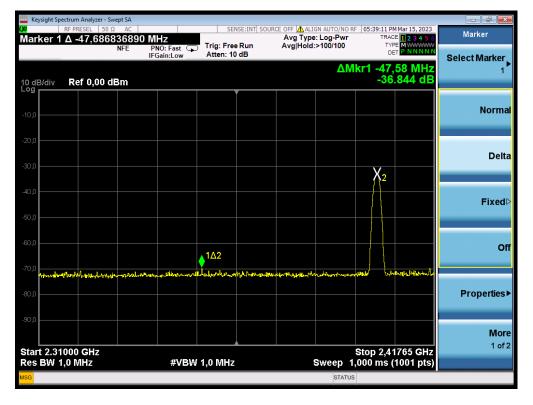


Test method:		
	FCC part 15 C - §15.247 (d) Band Edge measurement	
rest method.	For details see par. 4 of this report	
Operator	Marco Nicolè	
Test Date	2023-03-22	
Test Temperature	22 °C	
Test Humidity	35 %	
Test Pressure	1007 hPa	Low with Free 1
Electrical wiring	Cable	Length [m]
	a.c. input cable	3.0
Operating conditions	TX01; TX03	
Operating conditions	See par. 5 of this report	
Auxiliary equipment (AE)	See par. 3.5 of this report	
Limits	In any 100 kHz bandwidth outside the frequency band in which the spread sp digitally modulated intentional radiator is operating, the radio frequency power produced by the intentional radiator shall be at least 20 dB below that in the bandwidth within the band that contains the highest level of the desired power either an RF conducted or a radiated measurement, provided the transmitter compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in must also comply with the radiated emission limits specified in § 15.209(a).	er that is 100 kHz er, based on demonstrates
Test set up	EUT Turntable 0.8m Antenna tower Horn antenna Spectrum analyzer Pre-amp	
Measuring distance in the	3 m	
anechoic chamber		
Test instrumentations	See Annex B	
Measurement Uncertainty (k=2)	See Annex F	
Result	COMPLIES	
Test Procedure	The EUT is placed on a turntable, which is 1.5 m above the ground plane. The turntable shall be rotated for 360 degrees to determine the position of m emission level. EUT is set 3 m away from the receiving antenna, which is varied from 1m to the highest emission. Set the spectrum analyser in the following setting in order to capture the low band-edges of the emission: RBW=VBW=1MHz / Sweep=AUTO Repeat the procedures in the other POLARIZATION.	4m to find out
Note	The worst condition between X, Y and Z axis was checked	
EUT modification during this test	None	

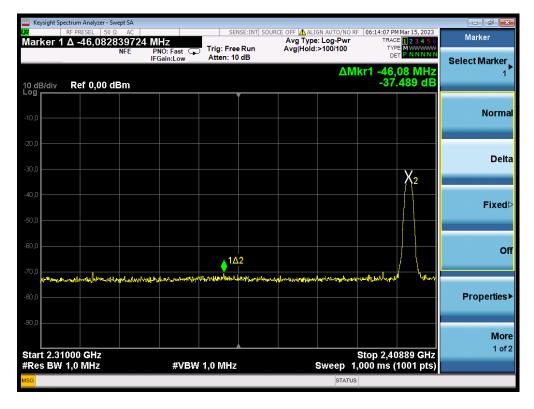




Test result TX01 – BAND EDGE LEFT SIDE Vertical polarization



Test result TX01 – BAND EDGE LEFT SIDE Horizontal polarization



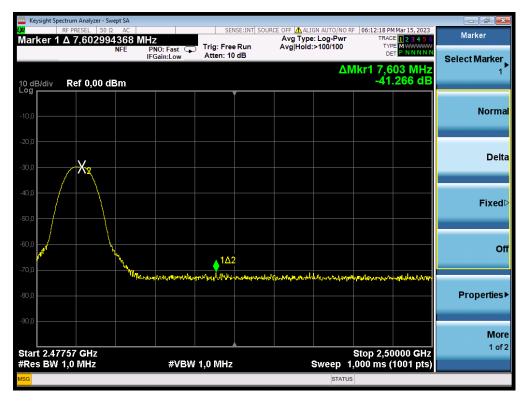




Test result TX03 – BAND EDGE RIGHT SIDE Vertical polarization



Test result TX03 – BAND EDGE RIGHT SIDE Horizontal polarization





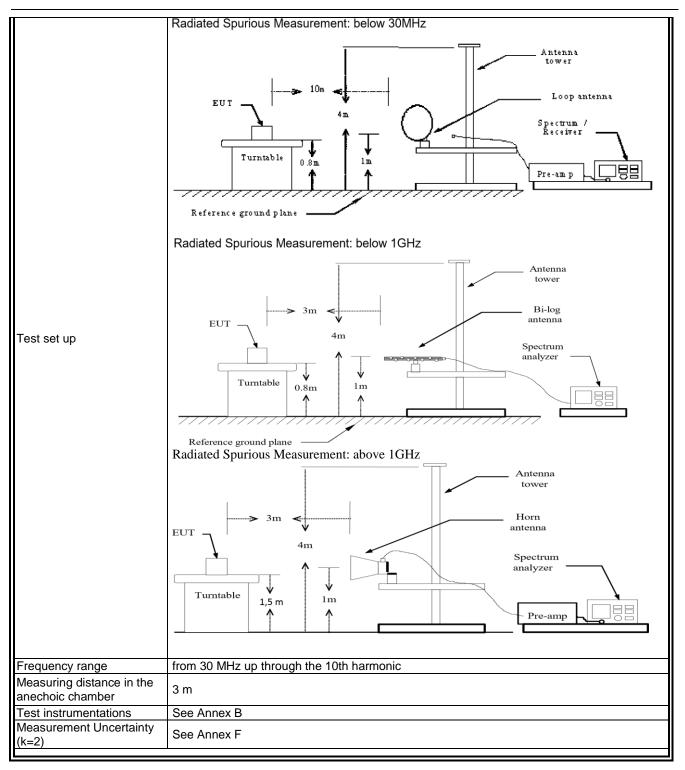
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Test method:	FCC part 15 C - § 15.209 Spurious Emission (Radiation) For details see par. 4 of this report									
Operator	Marco Nicolè									
Test Date	2023-02-23									
Test Temperature	23 °C									
Test Humidity	35 %									
Test Pressure	1009 hPa									
EUT Classification	None.									
Electrical wiring	Cable			Length [m]						
Electrical winng	d.c. input cable			1.5						
Operating conditions	TX01; TX02; TX0									
	See par. 5 of this									
Auxiliary equipment (AE)	See par. 3.5 of this report									
	Frequency (MHz) 30~88 88~216 216-960	Limits (dBuV/m) 40 43.5 46	Detector PK PK PK	Measured distance (m) 3						
Limits	Above 960 54 PK									
	Frequency	Measured distance								
	Frequency (GHz)	Limits (dBuV/m)	Detector	(m)						
	1 - 40	54	AVG	3						
	1-40	74	РК	3						







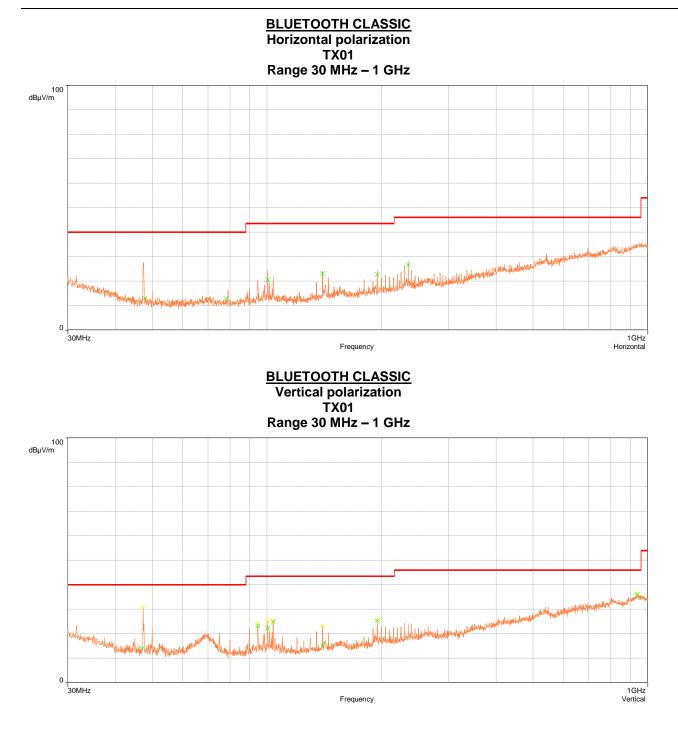




	Radiated Emission (30 MHz – 1000 MHz) : The preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyser or receiver. The Quasi-peak detector is used and RBW is set to 120kHz .The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyser or receiver.
Test Procedure	Radiated Emission (Above 1 GHz) : The preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyser or receiver. The spectrum analyser scans from 1GHz to 25GHz (higher than the 10th harmonic of the carrier). The peak detector is used for Peak limit and RBW is set to 1MHz ,VBW \geq 3RBW. The peak detector is used for Average limit and RBW is set to 1MHz ,VBW is not smaller than 1/T, T = to the shortest pulse width. The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyser or receiver.
Note	The worst condition between X, Y and Z axis was checked
EUT modification during this test	None









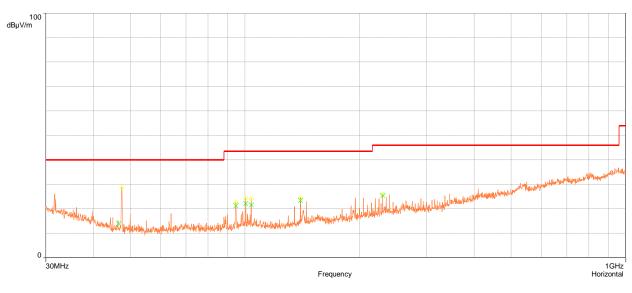


Frequency	SR	Peak	QPeak	LimQPeak	Delta	Polarization	Height (m)	Angle
(MHz)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)			(deg)
47.755	1	27.70	13.09	40.00	-26.91	Horizontal	2.67	29.90
78.0155	1	16.26	12.87	40.00	-27.13	Horizontal	1.13	150.30
100.535	1	23.99	20.44	43.52	-23.08	Horizontal	3.18	0.10
139.975	1	23.91	23.09	43.52	-20.43	Horizontal	2.05	300.00
194.9955	1	24.31	22.71	43.52	-20.81	Horizontal	1.43	210.10
235.015	1	28.18	26.57	46.00	-19.43	Horizontal	1.37	300.00
47.035	2	30.89	14.01	40.00	-25.99	Vertical	1.01	300.20
94.5555	2	24.24	23.05	43.52	-20.47	Vertical	3.96	240.40
100.455	2	25.22	22.23	43.52	-21.29	Vertical	1.98	330.30
103.915	2	25.46	24.81	43.52	-18.71	Vertical	2.06	359.80
140.4755	2	23.19	15.31	43.52	-28.21	Vertical	1.02	240.40
194.9955	2	25.69	25.42	43.52	-18.10	Vertical	1.00	29.90
937.1755	2	36.51	35.97	46.00	-10.03	Vertical	2.49	180.20

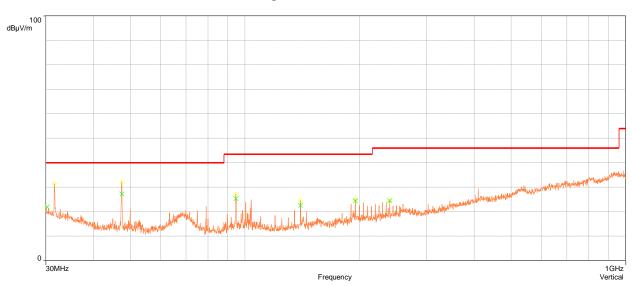




BLUETOOTH CLASSIC Horizontal polarization TX02 Range 30 MHz – 1 GHz



BLUETOOTH CLASSIC Vertical polarization TX02 Range 30 MHz – 1 GHz



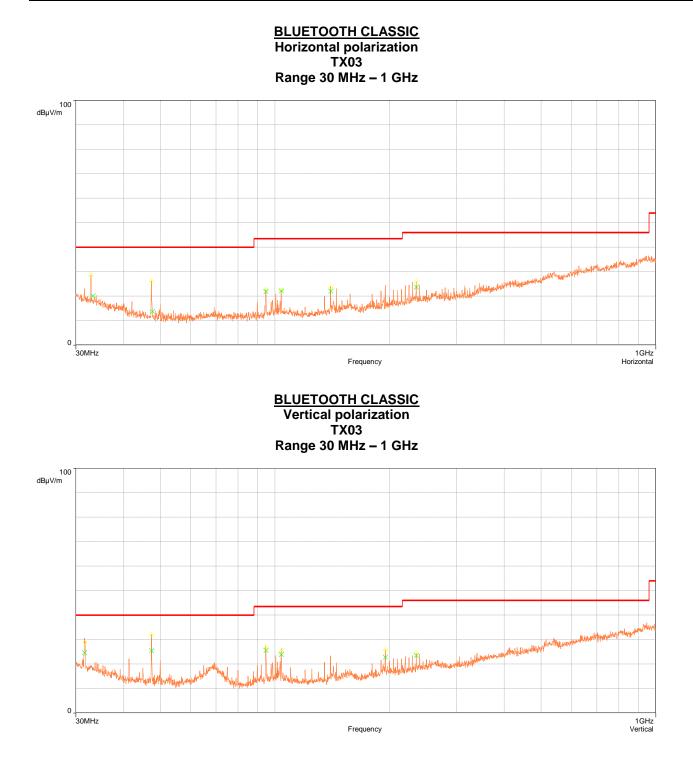




Frequency	SR	Peak	QPeak	LimQPeak	Delta	Polarization	Height (m)	Angle
(MHz)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)		_	(deg)
46.5555	1	28.79	13.98	40.00	-26.02	Horizontal	3.79	120.30
94.6155	1	22.82	21.34	43.52	-22.18	Horizontal	3.10	240.10
100.4555	1	24.39	22.14	43.52	-21.38	Horizontal	3.27	210.10
103.9555	1	24.06	21.55	43.52	-21.97	Horizontal	2.70	210.10
139.9755	1	24.63	23.42	43.52	-20.10	Horizontal	1.81	300.20
229.975	1	25.83	25.35	46.00	-20.65	Horizontal	1.15	300.20
30.215	2	31.46	21.97	40.00	-18.03	Vertical	1.00	180.20
47.515	2	32.09	27.21	40.00	-12.79	Vertical	1.15	300.30
94.6155	2	27.11	25.39	43.52	-18.13	Vertical	1.16	270.40
139.975	2	24.54	22.59	43.52	-20.93	Vertical	1.00	270.40
194.9955	2	24.97	24.49	43.52	-19.03	Vertical	1.00	210.10
239.995	2	24.36	24.55	46.00	-21.45	Vertical	1.00	300.30









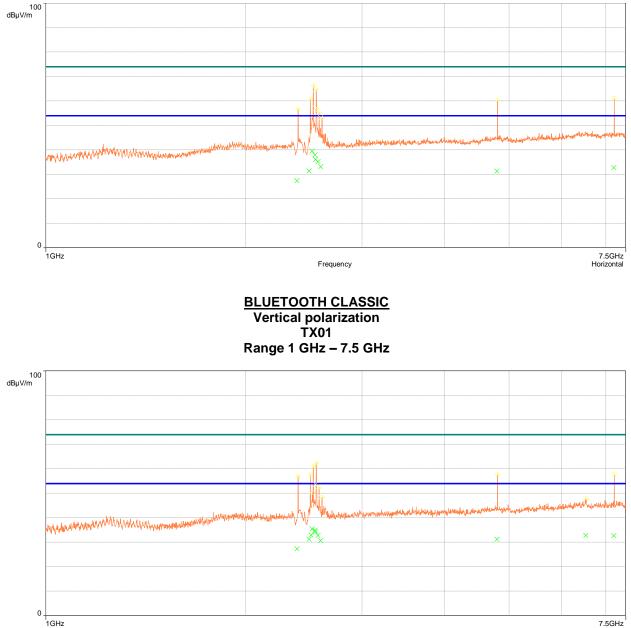


Frequency	SR	Peak	QPeak	LimQPeak	Delta	Polarization	Height (m)	Angle
(MHz)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)		_	(deg)
33.2755	1	28.55	20.09	40.00	-19.91	Horizontal	1.74	269.90
47.6955	1	26.19	13.68	40.00	-26.32	Horizontal	2.91	180.20
94.615	1	22.69	21.85	43.52	-21.67	Horizontal	3.40	359.90
103.9155	1	22.37	22.18	43.52	-21.34	Horizontal	2.69	29.90
140.035	1	23.80	22.02	43.52	-21.50	Horizontal	2.23	300.40
235.055	1	25.96	23.69	46.00	-22.31	Horizontal	1.38	300.40
31.6	2	28.71	24.60	40.00	-15.40	Vertical	1.16	89.90
47.3955	2	31.91	25.43	40.00	-14.57	Vertical	1.40	359.80
94.615	2	26.85	25.52	43.52	-18.00	Vertical	1.00	29.90
103.9755	2	25.21	23.86	43.52	-19.66	Vertical	2.03	270.40
194.9555	2	25.88	22.81	43.52	-20.71	Vertical	1.00	89.90
235.0155	2	24.49	23.43	46.00	-22.57	Vertical	1.00	60.20





BLUETOOTH CLASSIC Horizontal polarization **TX01** Range 1 GHz – 7.5 GHz



Frequency

7.5GHz Vertical



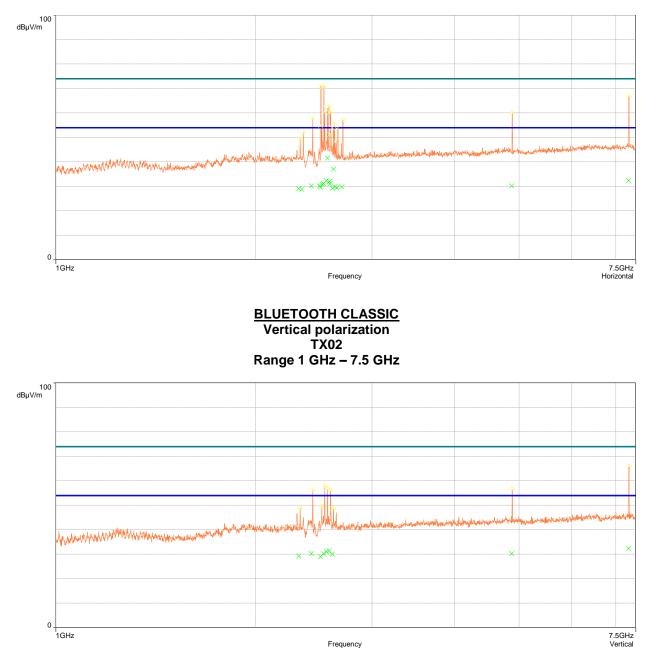


Frequency (MHz)	SR	Peak (dBµV/m)	LimPeak (dBµV/m)	Delta (dB)	CISPR AVG (dBµV/m)	Lim AVG (dBµV/m)	Delta AVG (dB)	Angle (deg)
2391	1	56.66	74.00	46.59	27.41	54.00	26.59	330.30
2495	1	60.85	74.00	42.61	31.39	54.00	22.61	330.30
2521	1	66.27	74.00	34.46	39.54	54.00	14.46	330.30
2547	1	64.62	74.00	36.01	37.99	54.00	16.01	330.30
2551	1	57.09	74.00	37.84	36.16	54.00	17.84	330.30
2573	1	55.21	74.00	38.78	35.22	54.00	18.78	330.30
2599	1	53.17	74.00	40.83	33.17	54.00	20.83	330.30
4793	1	60.32	74.00	42.73	31.27	54.00	22.73	300.20
7195.5	1	61.17	74.00	41.25	32.75	54.00	21.25	240.10
2391	2	56.98	74.00	46.63	27.36	54.00	26.64	210.10
2495	2	57.55	74.00	42.83	31.17	54.00	22.83	240.10
2514	2	50.15	74.00	41.00	32.98	54.00	21.02	180.40
2521	2	60.95	74.00	38.56	35.44	54.00	18.56	90.10
2547	2	62.36	74.00	39.08	34.92	54.00	19.08	240.10
2550.5	2	53.69	74.00	39.77	34.23	54.00	19.77	240.10
2573.5	2	52.43	74.00	41.19	32.81	54.00	21.19	210.10
2599	2	48.46	74.00	43.21	30.79	54.00	23.21	240.10
4792.5	2	57.83	74.00	42.77	31.23	54.00	22.77	120.40
6525.5	2	47.80	74.00	41.17	32.83	54.00	21.17	150.30
7195	2	57.89	74.00	41.35	32.65	54.00	21.35	359.80





BLUETOOTH CLASSIC Horizontal polarization TX02 Range 1 GHz – 7.5 GHz





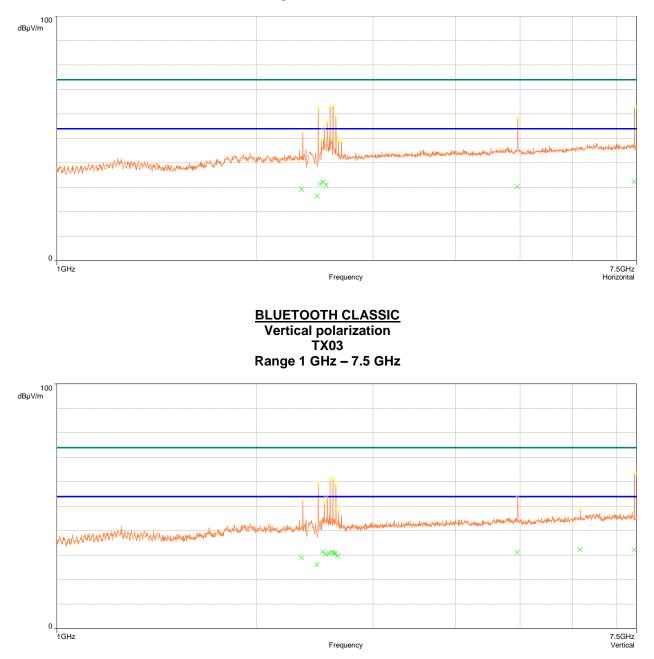


Frequency (MHz)	SR	Peak (dBµV/m)	LimPeak (dBµV/m)	Delta (dB)	CISPR AVG (dBµV/m)	Lim AVG (dBµV/m)	Delta AVG (dB)	Angle (deg)
2326	1	49.10	74.00	44.93	29.07	54.00	24.93	300.40
2351.5	1	52.07	74.00	45.16	28.84	54.00	25.16	359.80
2430	1	57.82	74.00	43.83	30.17	54.00	23.83	330.10
2500	1	71.07	74.00	43.84	30.16	54.00	23.84	330.10
2508	1	54.96	74.00	44.35	29.65	54.00	24.35	330.10
2526	1	70.79	74.00	43.25	30.75	54.00	23.25	180.20
2534	1	60.36	74.00	42.82	31.18	54.00	22.82	330.10
2560	1	61.99	74.00	41.69	32.31	54.00	21.69	330.10
2570.5	1	62.59	74.00	32.46	41.54	54.00	12.46	60.20
2585.5	1	60.19	74.00	42.08	31.92	54.00	22.08	330.10
2590.5	1	51.22	74.00	42.95	31.05	54.00	22.95	330.10
2612	1	53.90	74.00	44.76	29.24	54.00	24.76	210.20
2623	1	55.16	74.00	36.94	37.06	54.00	16.94	359.80
2638	1	48.45	74.00	44.08	29.92	54.00	24.08	330.10
2654	1	53.57	74.00	44.60	29.40	54.00	24.60	300.40
2700.5	1	57.12	74.00	44.14	29.86	54.00	24.14	60.20
4871.5	1	60.02	74.00	43.82	30.18	54.00	23.82	300.40
7312.5	1	66.86	74.00	41.62	32.38	54.00	21.62	240.20
2326	2	48.83	74.00	44.83	29.17	54.00	24.83	210.20
2430	2	56.11	74.00	43.72	30.28	54.00	23.72	90.20
2508.5	2	49.66	74.00	45.02	28.98	54.00	25.02	240.30
2534	2	57.84	74.00	43.78	30.22	54.00	23.78	240.30
2560	2	56.75	74.00	42.86	31.14	54.00	22.86	240.30
2586	2	55.97	74.00	42.57	31.43	54.00	22.57	210.20
2612	2	48.58	74.00	44.02	29.98	54.00	24.02	240.30
4871	2	56.60	74.00	43.70	30.30	54.00	23.70	120.30
7311.5	2	65.94	74.00	41.55	32.45	54.00	21.55	359.90





BLUETOOTH CLASSIC Horizontal polarization TX03 Range 1 GHz – 7.5 GHz





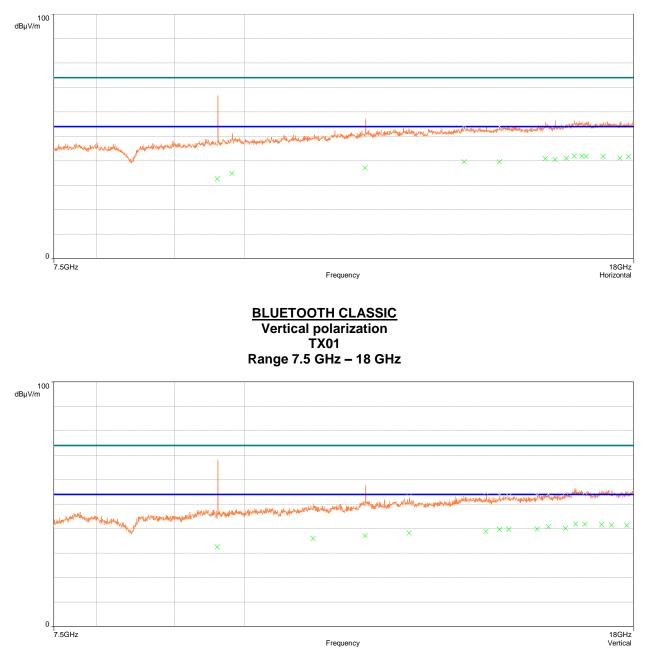


Frequency (MHz)	SR	Peak (dBµV/m)	LimPeak (dBµV/m)	Delta (dB)	CISPR AVG (dBµV/m)	Lim AVG (dBµV/m)	Delta AVG (dB)	Angle (deg)
2339	1	52.56	74.00	44.81	29.18	54.00	24.82	300.30
2469	1	62.09	74.00	47.63	26.37	54.00	27.63	330.30
2495.5	1	49.41	74.00	42.62	31.38	54.00	22.62	330.30
2521	1	54.54	74.00	41.79	32.21	54.00	21.79	330.30
2547	1	56.98	74.00	43.04	30.96	54.00	23.04	330.30
4949.5	1	58.30	74.00	43.62	30.38	54.00	23.62	330.30
7428.5	1	62.71	74.00	41.70	32.30	54.00	21.70	240.20
2339	2	52.35	74.00	44.97	29.03	54.00	24.97	90.10
2469	2	59.20	74.00	47.82	26.18	54.00	27.82	270.30
2520.5	2	51.52	74.00	42.65	31.35	54.00	22.65	240.20
2547	2	53.50	74.00	43.64	30.36	54.00	23.64	240.20
2573	2	61.04	74.00	43.28	30.72	54.00	23.28	210.20
2599.5	2	61.31	74.00	42.76	31.24	54.00	22.76	240.20
2625	2	59.07	74.00	42.90	31.10	54.00	22.90	240.20
2629	2	50.71	74.00	43.43	30.57	54.00	23.43	210.20
2651.5	2	48.40	74.00	44.23	29.77	54.00	24.23	270.30
4949	2	54.31	74.00	42.79	31.21	54.00	22.79	90.10
6157	2	48.75	74.00	41.72	32.28	54.00	21.72	359.90
7429.5	2	63.48	74.00	41.75	32.25	54.00	21.75	270.30





BLUETOOTH CLASSIC Horizontal polarization TX01 Range 7.5 GHz – 18 GHz





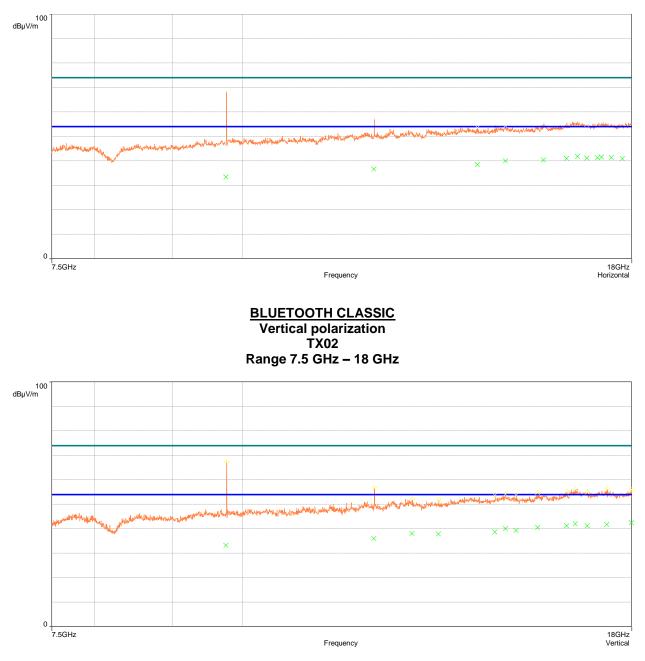


Frequency (MHz)	SR	Peak	LimPeak	Delta (dB)	CISPR AVG	_	Delta AVG	Angle (deg)
		(dBµV/m)	(dBµV/m)		(dBµV/m)	(dBµV/m)	(dB)	
9597.5	1	66.91	74.00	41.28	32.72	54.00	21.28	330.30
9812	1	51.36	74.00	39.07	34.93	54.00	19.07	180.20
11998.5	1	57.45	74.00	36.90	37.10	54.00	16.90	330.30
13933	1	54.49	74.00	34.38	39.62	54.00	14.38	150.30
14698	1	54.06	74.00	34.37	39.63	54.00	14.37	30.00
15745.5	1	56.15	74.00	33.07	40.93	54.00	13.07	270.40
15979.5	1	56.71	74.00	33.48	40.52	54.00	13.48	270.40
16255.5	1	55.11	74.00	32.97	41.03	54.00	12.97	240.30
16449.5	1	56.75	74.00	32.05	41.95	54.00	12.05	240.30
16637.5	1	56.29	74.00	32.08	41.92	54.00	12.08	150.30
16745	1	56.16	74.00	32.16	41.84	54.00	12.16	89.90
17185	1	56.03	74.00	32.13	41.87	54.00	12.13	300.20
17623.5	1	56.15	74.00	32.93	41.08	54.00	12.92	30.00
17852.5	1	55.82	74.00	32.20	41.80	54.00	12.20	359.90
9597.5	2	68.48	74.00	41.39	32.61	54.00	21.39	240.30
11092	2	50.47	74.00	37.99	36.00	54.00	18.00	120.20
11999.5	2	58.08	74.00	36.90	37.10	54.00	16.90	210.20
12821.5	2	53.09	74.00	35.71	38.29	54.00	15.71	330.30
14400	2	54.87	74.00	35.07	38.93	54.00	15.07	359.90
14696	2	53.80	74.00	34.29	39.71	54.00	14.29	270.00
14903.5	2	53.31	74.00	34.14	39.85	54.00	14.15	359.90
15555	2	53.75	74.00	34.06	39.94	54.00	14.06	120.20
15825.5	2	54.28	74.00	33.15	40.85	54.00	13.15	60.30
16233	2	54.94	74.00	33.77	40.23	54.00	13.77	180.00
16485	2	56.73	74.00	32.07	41.92	54.00	12.08	29.90
16718	2	54.82	74.00	32.12	41.88	54.00	12.12	330.30
17148.5	2	55.92	74.00	32.27	41.73	54.00	12.27	29.90
17410	2	55.91	74.00	32.49	41.51	54.00	12.49	270.00
17809	2	55.58	74.00	32.64	41.36	54.00	12.64	180.00





BLUETOOTH CLASSIC Horizontal polarization TX02 Range 7.5 GHz – 18 GHz





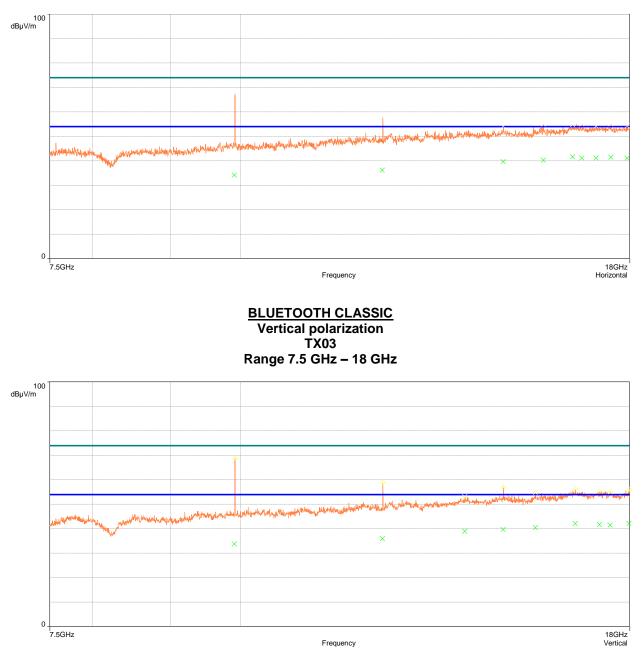


Frequency (MHz)	SR	Peak (dBµV/m)	LimPeak (dBµV/m)	Delta (dB)	CISPR AVG (dBµV/m)	Lim AVG (dBµV/m)	Delta AVG (dB)	Angle (deg)
9753.5	1	68.42	74.00	40.58	33.42	54.00	20.58	359.90
12195	1	57.35	74.00	37.36	36.64	54.00	17.36	60.00
14257.5	1	53.64	74.00	35.49	38.51	54.00	15.49	330.30
14874	1	54.40	74.00	34.00	40.00	54.00	14.00	90.10
15751.5	1	55.54	74.00	33.62	40.38	54.00	13.62	300.20
16314.5	1	55.72	74.00	33.00	41.00	54.00	13.00	120.20
16582.5	1	56.28	74.00	32.17	41.83	54.00	12.17	120.20
16817.5	1	54.96	74.00	32.89	41.11	54.00	12.89	300.20
17089	1	55.33	74.00	32.73	41.27	54.00	12.73	210.10
17196.5	1	55.90	74.00	32.37	41.60	54.00	12.40	120.20
17450	1	55.15	74.00	32.61	41.39	54.00	12.61	240.10
17744	1	55.27	74.00	33.03	40.97	54.00	13.03	270.30
9753.5	2	67.36	74.00	40.79	33.21	54.00	20.79	90.10
12193	2	56.76	74.00	38.02	35.98	54.00	18.02	90.10
12915.5	2	52.10	74.00	35.91	38.09	54.00	15.91	29.90
13440.5	2	52.00	74.00	36.16	37.83	54.00	16.17	180.30
14634.5	2	53.59	74.00	35.25	38.75	54.00	15.25	90.10
14875	2	54.17	74.00	33.87	40.13	54.00	13.87	150.30
15116	2	53.74	74.00	34.62	39.38	54.00	14.62	330.30
15614	2	54.84	74.00	33.44	40.56	54.00	13.44	359.70
16311.5	2	55.25	74.00	32.75	41.25	54.00	12.75	330.30
16526.5	2	56.24	74.00	31.99	42.01	54.00	11.99	240.30
16829.5	2	55.04	74.00	32.76	41.24	54.00	12.76	270.30
17329.5	2	56.52	74.00	32.26	41.74	54.00	12.26	150.30
17988.5	2	56.04	74.00	31.53	42.47	54.00	11.53	180.30





BLUETOOTH CLASSIC Horizontal polarization TX03 Range 7.5 GHz – 18 GHz





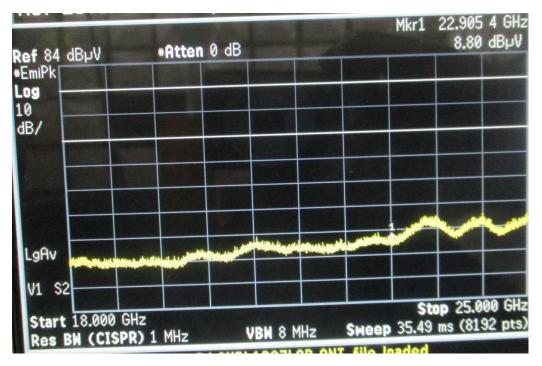


Frequency (MHz)	SR	Peak (dBµV/m)	LimPeak (dBµV/m)	Delta (dB)	CISPR AVG (dBµV/m)	Lim AVG (dBµV/m)	Delta AVG (dB)	Angle (deg)
9908.5	1	67.46	74.00	39.83	34.17	54.00	19.83	359.90
12388	1	58.02	74.00	37.76	36.24	54.00	17.76	359.90
14868	1	54.19	74.00	34.25	39.75	54.00	14.25	359.90
15795	1	55.00	74.00	33.72	40.28	54.00	13.72	359.90
16510.5	1	54.85	74.00	32.29	41.71	54.00	12.29	359.90
16740.5	1	55.13	74.00	32.78	41.22	54.00	12.78	359.90
17106	1	54.26	74.00	32.80	41.20	54.00	12.80	359.90
17489.5	1	55.09	74.00	32.52	41.48	54.00	12.52	359.90
17925.5	1	54.38	74.00	32.87	41.13	54.00	12.87	359.90
9908.5	2	68.84	74.00	40.23	33.77	54.00	20.23	60.30
12389.5	2	58.99	74.00	38.07	35.93	54.00	18.07	60.30
14027.5	2	53.18	74.00	34.98	39.02	54.00	14.98	90.20
14868	2	57.06	74.00	34.30	39.70	54.00	14.30	60.30
15608	2	54.86	74.00	33.57	40.43	54.00	13.57	150.30
16575.5	2	56.22	74.00	31.87	42.13	54.00	11.87	180.30
17191	2	55.38	74.00	32.20	41.80	54.00	12.20	180.30
17472.5	2	55.13	74.00	32.55	41.45	54.00	12.55	150.30
17976	2	56.03	74.00	31.83	42.17	54.00	11.83	120.30

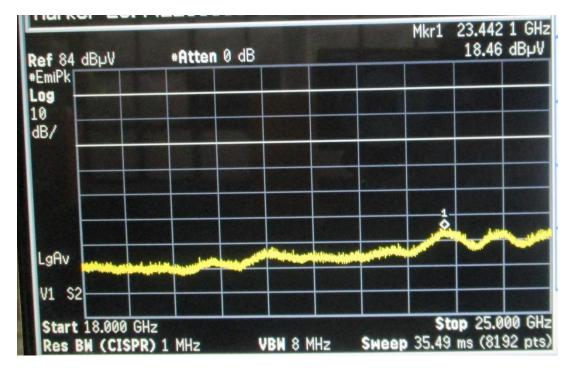




BLUETOOTH CLASSIC Horizontal polarization TX01 Range 18 GHz – 25 GHz



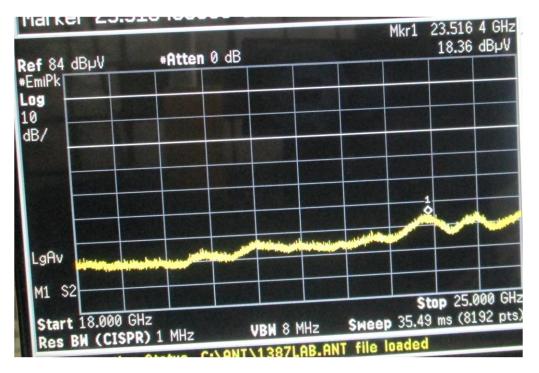
BLUETOOTH CLASSIC Vertical polarization TX01 Range 18 GHz – 25 GHz



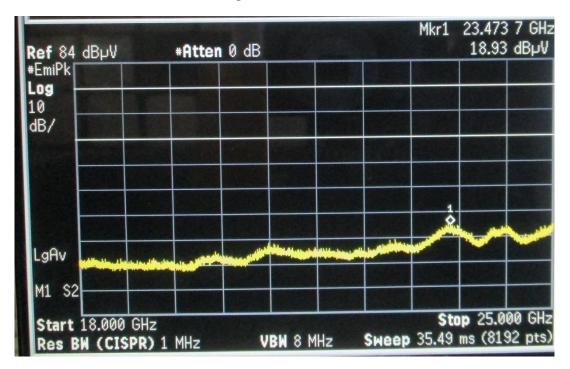




BLUETOOTH CLASSIC Horizontal polarization TX02 Range 18 GHz – 25 GHz



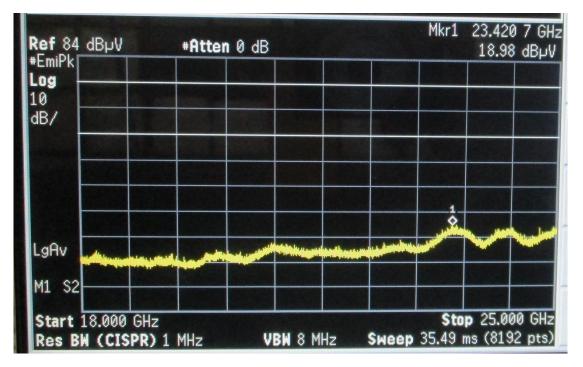
BLUETOOTH CLASSIC Vertical polarization TX02 Range 18 GHz – 25 GHz



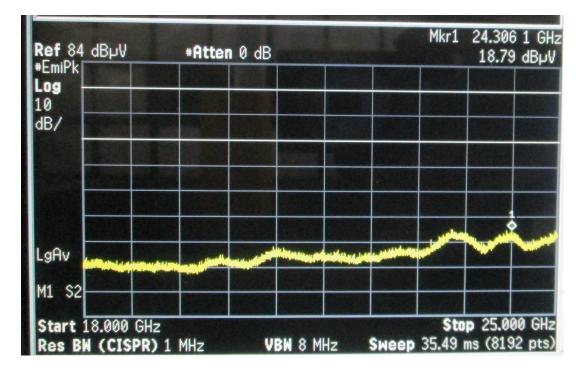




BLUETOOTH CLASSIC Horizontal polarization TX03 Range 18 GHz – 25 GHz



BLUETOOTH CLASSIC Vertical polarization TX03 Range 18 GHz – 25 GHz





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Code 047/23/02961/FCC



Test method:	FCC part 15 C - § 15.207 Standard test method for ac power-line conducted emissions from unli wireless devices For details see par. 4 of this report	icensed			
Operator	Marco Nicolè				
Test Date	2023-04-12				
Test Temperature	21 °C				
Test Humidity	32 %				
Test Pressure	996 hPa				
	Cable	Length [m]			
Electrical wiring	USB cable	0.2			
-	Ac input cable (power supply of laptop)	1.3			
Operating conditions	OC09 See par. 6 of this report				
Additional information	None				
Auxiliary equipment (AE)	See par. 3.4 of this report				
Frequency range	150 kHz ÷ 30 MHz				
Test set up	□ Floor standing set up ⊠ Table top set up				
Test method	The EUT is placed on the table, which is 0.8 m above ground plane. Accord requirements in Section 13.1.3 of ANSI C63.4 Conducted emission from the in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-average detector modes	EUT measured			
Port	A.C. Input - LISN measurements				
Test instrumentations	See Annex B				
Measurement Uncertainty (k=2)	See Annex F				
EUT modification during this test	None				
Result	COMPLIES				
Note	The measure was performed to understand which is the contribution of the or when it is connect to the laptop. So, for first was measure only the laptop, ar with the headphone connected to the USB port.				

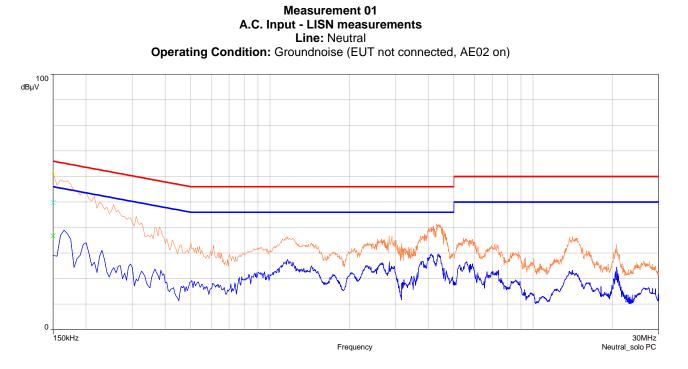


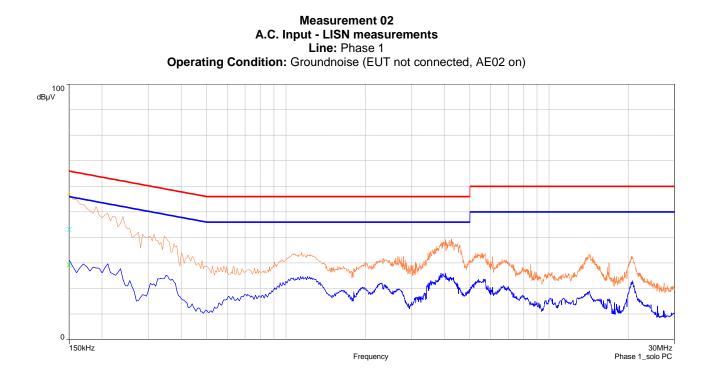


TEST GRAPHS AND MEASUREMENTS

All traces have been acquired with PK Peak detector (orange trace) and AVG Average detector (blue trace) If PK trace exceeds QP Quasi-Peak limit, QP measurements are performed at discrete frequencies where the limit is exceeded. Measurement time for QP measurements is 15 s.

If the general level of the disturbance is not steady, also the AVG disturbance voltage level is observed for 15 s per frequency; results are reported in a specific table below the graph.



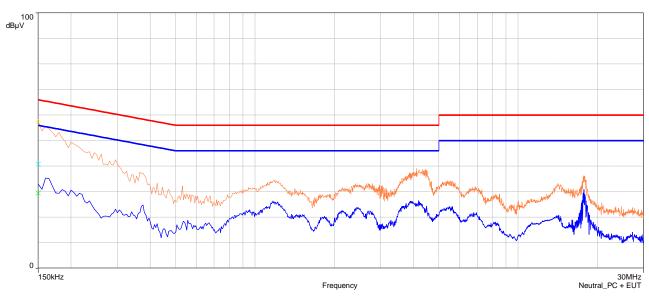




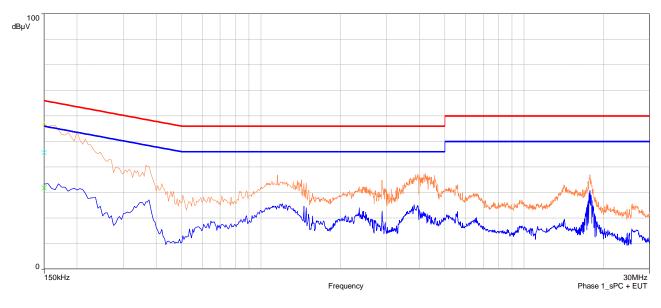


ACCREDIA

Measurement 03 A.C. Input - LISN measurements Line: Neutral Operating Condition: OC09



Measurement 04 A.C. Input - LISN measurements Line: Phase 1 Operating Condition: OC09



Frequency (MHz)	SR	AVG (dBµV)	QPeak (dBµV)	Lim AVG (dBµV)	Lim QPeak	AVG Margin (dB)	QPeak Margin (dB)	Line
					(dBµV)			
0.15	1	36.73	49.83	56.00	66.00	-19.27	-16.17	Neutral
0.15	2	29.24	43.19	56.00	66.00	-26.76	-22.81	Phase 1
0.15	3	29.41	40.79	56.00	66.00	-26.59	-25.21	Neutral
0.15	4	31.86	45.69	56.00	66.00	-24.14	-20.31	Phase 1





7 EUT MODIFICATIONS

None.



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Annex B Test instrumentations

Description	Manufacturer	Model	Identifier Cal data	Cal due
EMI Receiver - PSA Spectrum Analyzer	Agilent Technologies	E4446A	740/LAB 2022-08-09	2023-08-09
			Rapporto 5817	
Antenna - Horn Antenna 18 GHz ÷ 40 GHz	ETS-LINDGREN	3116	779/LAB 2020-11-03	2023-11-0
			Rapporto 5178	
Antenna - BiConiLog Antenna 30MHz÷ 6 GHz	ETS-LINDGREN	3142E	1508/LAB 2020-12-18	2023-12-18
			Rapporto 5222	
Pre-Amplifier 18 GHz ÷ 40 GHz	Spin Electronics	PRE-1840-35	759/LAB 2021-03-25	2023-03-2
			Rapporto 5325	
RF Cable - set of RF cables 769/LAB + 791/LAB +			803/LAB 2022-04-06	2023-04-06
938/LAB + Pre-Amplifier 758/LAB with cables			Rapporto 5661	
RF cable - set of RF cables (760/LAB + 804/LAB +			806/LAB 2022-04-06	2023-04-06
805/LAB)			Rapporto 5662	
Antenna - Horn Antenna 1 GHz ÷ 18 GHz	ETS-LINDGREN	3117	778/LAB 2020-11-03	2023-11-03
			Rapporto 5177	
LISN 32A	ROHDE&SCHWARZ	ESH2-Z5	033L/CS 2022-07-14	2023-07-14
			Rapporto 5765	
Software BAT-EMC	Nexio	BAT-EMC	1910/LAB	
RF Cable - N-N 5m	INTERCOND	M17/74 RG 213	225/LAB 2022-08-31	2023-08-3
			Rapporto 5818	



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Annex B Test inst	rumentations			
RF Cable - N-N 1,8m	Siva Cables Italy	RG 58A/U	243/LAB 2022-08-31	2023-08-31
			Rapporto 5819	
Filter PB	G. De PAOLI	BPF.0.15-30MHz	268/LAB 2022-08-31	2023-08-31
			Rapporto 5820	
Pulse Limiter ESH3-Z2	ROHDE&SCHWARZ Gmbh	ESH3-Z2	528/LAB 2022-08-31	2023-08-31
			Rapporto 5821	
EMI Receiver - MXE	Keysight Technologies	N9038A	1444/LAB 2023-03-01	2024-02-29
			Rapporto 5985	
RF cable - set of RF cables (771/LAB + 791/LAB +			802/LAB 2023-01-27	2024-01-27
937/LAB)			Rapporto 5990	
EMI Receiver	ROHDE&SCHWARZ	ESHS10 9kHz30MHz	030L/CS 2022-05-19	2023-05-19
			Rapporto 5687	



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Annex D Auxiliary instrumentations

Application	Description	Manufacturer	Model	Identifier	Cal. data	Cal. due
Monitoring of environmental conditions	Climatic Sensor (pri site) - 739/LAB Emission Anec	HW group	HWg-STE	1299/LAB	2022-07-25	2023-07-25
Monitoring of environmental conditions	Climatic Sensor (pri site) - 051L/CS Shielded Cham	HW group	HWg-STE	1300/LAB	2022-07-25	2023-07-25
Monitoring of environmental conditions	Pressure Transducer	COMET	T7410	1530/LAB	2021-10-14	2023-10-14
Distance monitoring	Metro Laser	Leica	DISTO A2	1094/LAB	2021-11-11	2023-11-11



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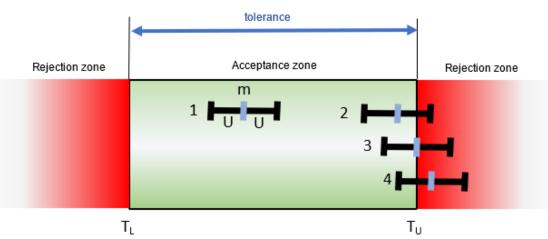
Annex F Compliance Decision Rule and measurements uncertainty

F1: Decision Rule

- A decision rule defines the role of uncertainty in assessing the conformity of measured values with respect to specification limits.
- The Kiwa Creiven decision rule uses the "simple acceptance" method minimizing the "supplier risk" (type 1 risk or alpha risk), that is the risk of refusing a compliant product.
- The probability distribution of the measurement uncertainty is assumed to be Gaussian,

Nomenclature

- m: measured value
- P: probability of correct acceptation, (1-P: probability of refusing a compliant product)
- Tu: upper tolerance limit
- TL: lower tolerance limit
- Tolerance: interval of width equal to Tu TL



Case	Decision Rule	Note
Case 1, 2, 3	Measurement complies with specifications	 T_L ≤ m ≤ Tu; the probability P of correct acceptation is: 50% ≤ P ≤ 100%
Case 4	Measurement NOT complies with specifications	 m>Tu (or m<tl): correct<br="" of="" p="" probability="" the="">acceptation is lower than 50%</tl):>

Note about qualitative tests: The uncertainty balance is applicable only to tests whose result is numerical. For the qualitative tests, are verified the tolerance and repeatability of the quantities that stimulate the EUT. Tolerances and repeatability of these quantities are part of the instrumentation calibration.

In accordance with:

- IEC Guide 115 Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector
- ILAC-G8 Guidelines on the Reporting of Compliance with Specification
- JGCM guide 106





Annex F Compliance Decision Rule and measurements uncertainty

F.2 Measurements uncertainty

	Uncertainty
Frequency Readout – Conducted Test	(k=2)
Test Uncertainty [kHz]	10.3
Frequency Readout – Radiated Test	
Test Uncertainty [kHz]	10.6
Effective radiated power ERP (30 MHz to 1000 MHz)	
Test Uncertainty [dB]	6.4
Effective radiated power EIRP (above 1 GHz)	
Test Uncertainty [dB]	6.6
Radiated receiver blocking tests (above 1 GHz)	
Test Uncertainty [dB]	4.9
Conducted spurious emissions	
Test Uncertainty [dB]	3.3
Radiated spurious emissions	
Test Uncertainty [dB]	5.8
Channel power	
Test Uncertainty [dB]	2.6
Adjacent channel power	
Test Uncertainty [dB]	2.2
RF Output power (EIRP)	
Test Uncertainty [dB]	2.3
Occupied Channel Bandwidth	
Test Uncertainty [Hz]	[span/600]