

RF Test Report

Report No.: AGC04094181005EE11

PRODUCT DESIGNATION: Cathy Anti-harassment Backpack

BRAND NAME : N/A

MODEL NAME : P705.21

CLIENT : Xindao B.V.

DATE OF ISSUE : Dec. 04, 2018

STANDARD(S) : EN 300 328 V2.1.1 (2016-11)

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	phones / ®	Dec. 04, 2018	Valid	Initial release

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1. TEST RESULT CERTIFICATION

Applicant	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Manufacturer	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Factory	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Product Designation	Cathy Anti-harassment Backpack
Brand Name	N/A
Test Model	P705.21
Date of test	Oct. 25, 2018 to Nov. 07, 2018

We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd has tested the product mentioned above in compliance with the requirements set forth in the European Standard ETSI EN 300 328 V2.1.1. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. The test results of this report relate only to the tested sample identified in this report.

Tested By	Jorden Wand	
(8) Fill The Company	Jonhen Wang(Wang Yonghuan)	Nov. 07, 2018
Reviewed By	and change	The state of Cooling Complained
CC American	Cool Cheng(Cheng Mengguo)	Dec. 04, 2018
Approved By	Forverst ce	
S Minestron	Forrest Lei(Lei Yonggang) Authorized Officer	Dec. 04, 2018

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2. TECHNICAL INFORMATION

2.1 EUT DESCRIPTION

Bluetooth Version	V4.0
Modulation	GFSK for BLE
Receiver Category	Category 3
Hardware Version	V1.3
Software Version	V1.0
Adaptive / non-adaptive equipment	Adaptive Equipment
The number of Hopping Frequencies	40 for BLE
The maximum RF Output Power (e.i.r.p.)	-6.91dBm
The different transmit operating modes	Operating mode 1: Single Antenna Equipment Equipment with only 1 antenna
Operating Frequency Range(s)	2402MHz~2480MHz
Type of Equipment	Stand-alone
Antenna designation	PCB Antenna
Antenna gain	-3dBi
Nominal voltages	DC 3.7V by battery
The extreme operating conditions	Extreme test temperature: -10°C~45°C

Note:

- 1. The above information was declared by the applicant.
- 2. The equipment submitted are representative production models.
- 3. The EUT provides Bluetooth wireless interface operating at 2.4G ISM band (2402MHz-2480MHz).
- 4. Only the Bluetooth was tested according the standard requirement.
- 5. The EUT is an adaptive equipment and hand-portable station according to ETSI EN 300 328 V2.1.1.
- Please refer to Appendix I for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.
- The EUT doesn't support BR/EDR.

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2.2 SUPPORT EQUIPMENT

Item Equipment		Mfr/Brand	Model/Type No.	Remark	
1	PC	HP	RT3290	A.E.	

2.3 DESCRIPTION OF TEST MODES

	NO.	TEST MODE DESCRIPTION
	13. Allinos	Low channel TX
® ##	2 8	Middle channel TX
60	3	High channel TX
	4	Low channel (RX Mode)
IIII	5 12 miles	Middle channel (RX Mode)
(S) ##	6 6	High channel (RX Mode)

Note:

1. All modes have been tested and the worst mode test data recording in the test report, if no any other data.

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A) OBJECTIVE

Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the RED Directive

B) TEST STANDARDS AND RESULTS

2. The EUT has been tested according to ETSI EN 300 328 V2.1.1 (2016-11).

ETSI EN 300 3	328
V2.1.1 (2016-1	1)

Wideband transmission systems ;Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

TEST ITEMS AND THE RESULTS ARE AS BELOW:

Nº	Basic Standard	Test Type	The worst case operational mode	Result	
1	ETSI EN 300 328 4.3.2.2	RF Output Power	Mode 1/2/3	Pass	
2	ETSI EN 300 328 4.3.2.3	Power Spectral Density	Mode 1/2/3	Pass	
3	ETSI EN 300 328 4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	N/A	N/A	
4	ETSI EN 300 328 4.3.2.5	Medium Utilisation (MU) factor	N/A	N/A	
5	ETSI EN 300 328 4.3.2.6	Adaptivity (adaptive equipment using modulations other than FHSS)	N/A	N/A	
6	ETSI EN 300 328 4.3.2.7	Occupied Channel Bandwidth	Mode 1/3	Pass	
7	ETSI EN 300 328 4.3.2.8	Transmitter unwanted emissions in the out-of-band domain	Mode 1/3	Pass	
8	ETSI EN 300 328 4.3.2.9	Transmitter unwanted emissions in the spurious domain	Mode 1/3	Pass	
9	ETSI EN 300 328 4.3.2.10	Receiver spurious emissions	Mode 4/6	Pass	
10	ETSI EN 300 328 4.3.2.11	Receiver Blocking	Mode 4/6	Pass	
11	ETSI EN 300 328 4.3.2.12	Geo-location capability	N/A	N/A	

Note:

- 1. N/A means it's not applicable to this item.
- 2. Owing to the maximum declared RF Output power (e.i.r.p.) less than 10 dBm, so the item 3, 4, 5 are not applicable.

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3 DETAILS OF TEST

3.1 IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Company Name:	Attestation of Global Compliance (Shenzhen) Co., Ltd.
Address:	1F, B5 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

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3.2 LIST OF TEST EQUIPMENTS

Description	Manufacturer	Model No.	S/N	Calibration Date	Calibration Due.
Signal Analyzer	AGILENT	N9020A	MY49100060	Nov.09, 2017	Nov.08,2018
Signal Generator	AGILENT	N5182A	MY50140530	Sep. 20, 2018	Sep. 19, 2019
Signal Generator	AGILENT	E8257D	MY45141029	Sep. 20, 2018	Sep. 19, 2019
USB Wideband Power Sensor	AGILENT	U2021XA	MY54110007	Sep. 20, 2018	Sep. 19, 2019
USB Wideband Power Sensor	AGILENT	U2021XA	MY54110009	Sep. 20, 2018	Sep. 19, 2019
USB Wideband Power Sensor	AGILENT	U2021XA	MY54110014	Sep. 20, 2018	Sep. 19, 2019
USB Wideband Power Sensor	AGILENT	U2021XA	MY54110012	Sep. 20, 2018	Sep. 19, 2019
USB Simultaneous Sa mpling Multifunction DAQ	AGILENT	U2531A	MY5211038	Sep. 20, 2018	Sep. 19, 2019
2.4 GHz Filter	MICRO- TRONICS	BRM50702	017	Sep. 20, 2018	Sep. 19, 2019
Spectrum Analyzer	AGILENT	E4440A	US41421290	July 13, 2018	July 12, 2019
Wideband Frequency Antenna	SCHWARZBEC K	VULB9168	VULB9168-494	Mar.12, 2018	Mar.11, 2019
Horn Antenna	EM	EM-AH- 10180	67	Mar.01, 2018	Feb.28, 2019
Amplifier	EM	EM30180	060552	Mar.01, 2018	Feb.28, 2019
Bluetooth Tester	R&S	CMW270	1201.0002K75- 100528-Tu WIRELESSCO NN.TESTER	Oct.10, 2018	Oct.09, 2019
Signal generator	R&S	SMBV100A	ST113247Z	Oct.10, 2018	Oct.09, 2019
Attenuator	Wariors	W13	11324	N/A	N/A
Power spliter	Mini-Circuits	ZFRSC-183- S	3122	N/A	N/A
Small environmental tester	ESPEC	SH-242	C - C	Mar.02, 2018	Mar. 01, 2019

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3.3 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C

- Extreme Temperature: -10-45°C

- Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3.4 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

- Uncertainty of Radio Frequency, Uc=±1 x 10⁻⁵
- Uncertainty of total RF power, conducted, Uc = ±1.5dB
- Uncertainty of RF power density, conducted, Uc = ±3dB
- Uncertainty of spurious emissions, conducted, Uc = ±3dB
- Uncertainty of all emissions, radiated, Uc = ±6dB
- Uncertainty of Temperature: ±1° C
- Uncertainty of Humidity: ±5 %
- Uncertainty of DC and low frequency voltages: ±3 %

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4. ETSI EN 300 328 REQUIREMENTS

4.1 RF OUTPUT POWER

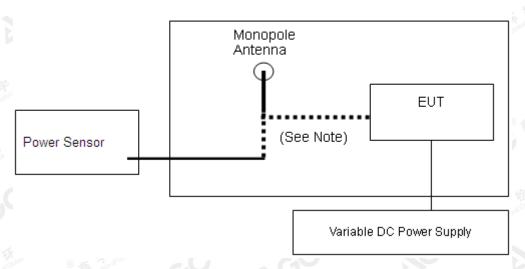
EN 300 328 Clause 4.3.2.2

For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.

The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. See clause 5.4.1 m). For non-adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be equal to or less than the value declared by the supplier. This limit shall apply for any combination of power level and intended antenna assembly.

Test Configuration





Remarks:

EUT was direct connected to test equipment through coupling device.

TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.2 for the measurement method.

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TEST RESULTS

Temperature: 25°C Tested by: Jonher

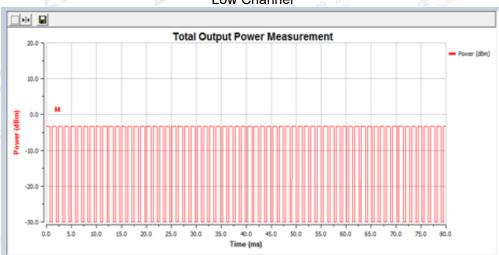
Humidity: 55 % RH Detector: RMS

Number of Burst = 10

Measurement Time = 45.53ms

	GFSK MODULATION RF OUTPUT POWER (dBm)					
TEST CONDITIONS	Temp (25)°C	Temp (-10)°C	Temp (45)°C			
Result	DC 3.7V	DC 3.7V	DC 3.7V			
Low Channel TX	-6.91	-6.94	-6.97			
Middle Channel TX	-6.97	-7.00	-7.01			
High Channel TX	-7.28	-7.33	-7.34			
Limit	tention of the second	20dBm	- TIII			

Low Channel

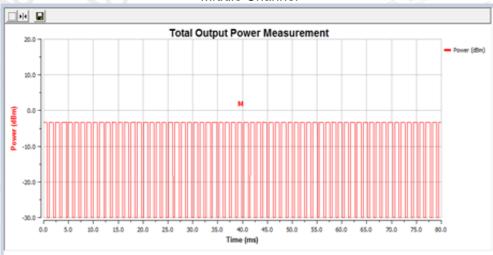


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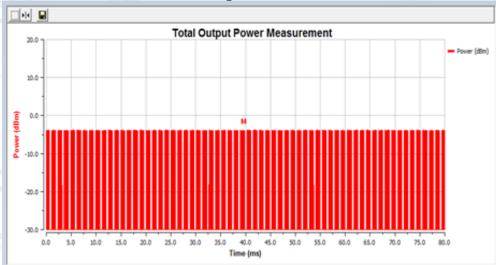




Middle Channel



High Channel



Note: Result=Reading+ Ant. Gain

The diagrams are for normal temperature.

Conclusion: PASS

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4.2. POWER SPECTRAL DENSITY

EN 300 328 Clause 4.3.2.3

For wide band modulations other than the FHSS, The maximum E.I.R.P Power density is limited to 10mW Per MHz

TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.3 for the measurement method.
- 3 The equipment setting as following

Start Frequency: 2 400 MHz
• Stop Frequency: 2 483,5 MHz

Resolution BW: 10 kHz
Video BW: 30 kHz
Sweep Points: >8350 Detector: RMS

Trace Mode: Max HoldSweep time: Auto

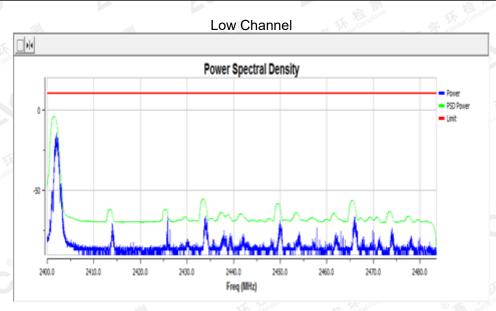
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TEST RESULTS

PEAK POWER DENSITY										
Channel Tested	Power Density (dBm/MHz)	Test Limit (dBm/MHz)	Pass / Fail							
Low Channel TX	-7.56	10	Pass							
Middle Channel TX	-7.67	10	Pass							
High Channel TX	-8.15	10	Pass							

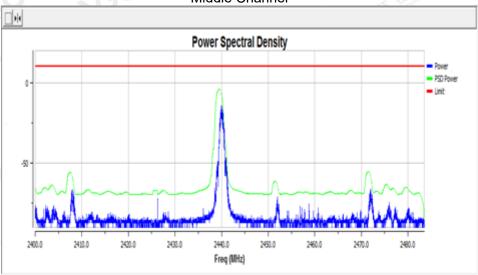


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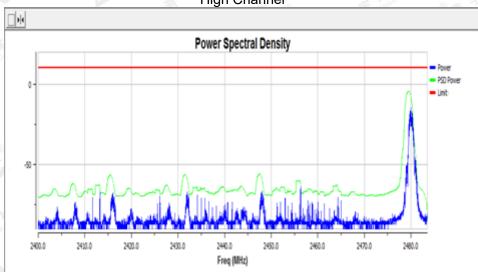




Middle Channel



High Channel



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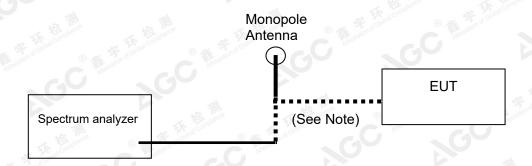
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4.3. DUTY CYCLE, TX-SEQUENCE, TX-GAP

ETSI EN 300 328 SUBCLAUSE 4.3.2.4

The Duty Cycle shall be equal to or less than the maximum value declared by the supplier. The maximum Tx-sequence Time and the minimum Tx-gap Time shall be according to the formula below: Maximum Tx-Sequence Time = Minimum Tx-gap Time = M where M is in the range of 3,5 ms to 10 ms.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3.2.2.1.3 the measurement method.

TEST RESULT

N/A

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4.4. MEDIUM UTILISATION (MU) FACTOR

ETSI EN 300 328 SUBCLAUSE 4.3.2.5

The Medium Utilisation (MU) factor is a measure to quantify the amount of resources (Power and Time) used by non-adaptive equipment. The Medium Utilisation factor is defined by the formula:

 $MU = (P/100 \text{ mW}) \times DC$

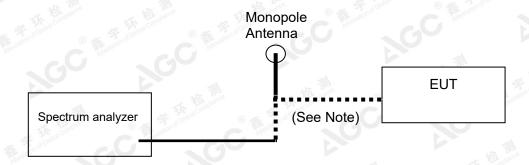
where: MU is Medium Utilisation factor in %.

P is the RF output power as defined in clause 4.3.1.1.1 expressed in mW.

DC is the Duty Cycle as defined in clause 4.3.1.2.1 expressed in %.

NOTE: The equipment may have dynamic behaviour with regard to duty cycle and corresponding power level

TEST CONFIGURATION



TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.2 the measurement method.

TEST RESULT

N/A

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4.5. ADAPTIVITY (CHANNEL ACCESS MECHANISM)

ETSI EN 300 328 SUBCLAUSE 4.3.2.6

This requirement does not apply to non-adaptive equipment or adaptive equipment operating in a non-adaptive mode providing the equipment complies with the requirements and/or restrictions applicable to non-adaptive equipment.

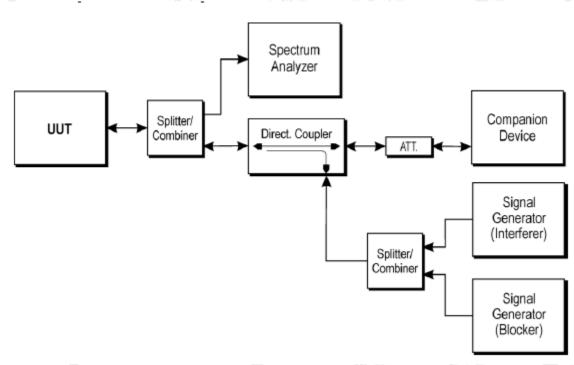
In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Adaptive equipment using modulations other than FHSS is allowed to operate in a non-adaptive mode providing it complies with the requirements applicable to non-adaptive equipment.

An adaptive equipment using modulations other than FHSS is equipment that uses a mechanism by which it can adapt to its environment by identifying other transmissions present within its Occupied Channel Bandwidth. Adaptive equipment using modulations other than FHSS shall implement either of the Detect and Avoid mechanisms provided in clauses 4.3.2.5.1 or 4.3.2.5.2.

Adaptive systems are allowed to switch dynamically between different adaptive modes.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.6 for the measurement method.

TEST RESULT

N/A

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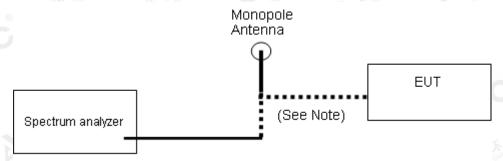
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4.6. OCCUPIED CHANNEL BANDWIDTH

ETSI EN 300328 SUBCLAUSE 4.3.2.7

The Occupied Channel Bandwidth shall fall completely within the band given in clause 1. In addition, for non-adaptive systems using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

CONFIGURATION



TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.7 the measurement method.
- 3. The Test equipment information as following

Centre frequency: 2402MHz,2480MHz

Resolution bandwidth: 20kHz Video bandwidth: 62kHz Detector mode :RMS Trace mode :Max Hold

TEST RESULT

TEST ITEM	OCCUPIED CHANNEL BANDWIDTH	CGC FOR	CO
TEST MODE	GFSK MODULATION		拉测

		MEASUREMENT RESULT	
	Test Da	Result	
of Global C	Low Channel	1.010	PASS
	High Channel	1.018	PASS

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Low Channel







Conclusion: PASS

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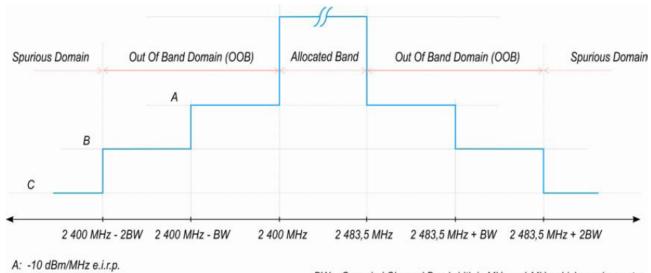
VGC 8



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4.7. TRANSMITTER UNWANTED EMISSIONS IN THE OUT OF BAND DOMAIN

ETSI EN300328 SUBCLAUSE 4.3.2.8



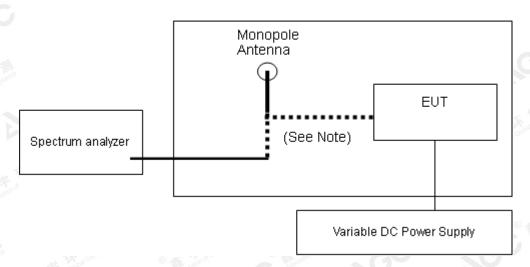
- B: -20 dBm/MHz e.i.r.p.
- C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

Figure 1: Transmit mask

TEST CONFIGURATION

Temperature Chamber

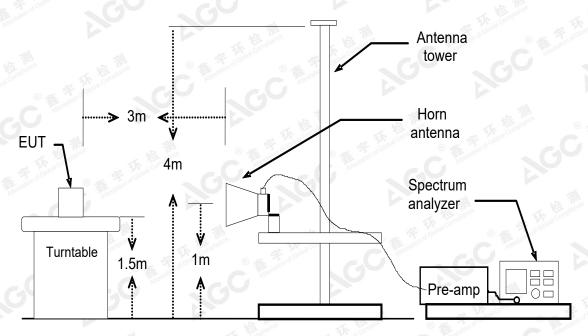


For have temporary antenna connector product

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For have no temporary antenna product

TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 (V2.1.1) clause 5.4.8 the measurement method

TEST RESULT

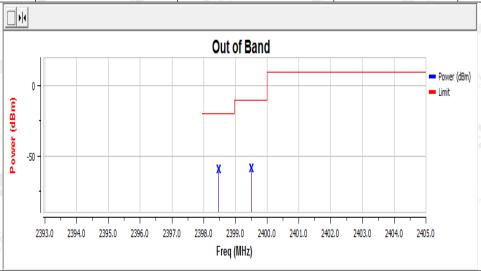
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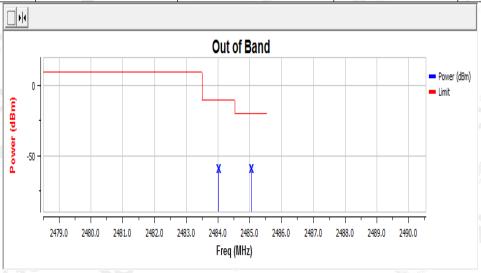
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NORMAL TEMPERATURE NORMAL VOLTAGE

Channel	Antenna	Freq(MHz)	Level	Limit
CH Low-2402	Antenna 1	2399.5	-60.32	-10
CH Low-2402	Antenna 1	2398.477	-61.24	-20



Channel	Antenna	Freq(MHz)	Level	Limit
CH High-2480	Antenna 1	2484.023	-61.06	-10
CH High-2480	Antenna 1	2485.046	-61.34	-20



Note: The worst modulation used during test is GFSK.

Conclusion: PASS

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4.8. TRANSMITTER SPURIOUS EMISSIONS

ETSI EN300328 SUBCLAUSE 4.3.2.9

Spurious emissions are emissions outside the frequency range(s) of the equipment as defined in Clause 4.3.1.9.

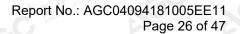
Transmitter unwanted emissions in the spurious domain are emissions outside the allocated band and outside the out-of-band domain as indicated in figure 1 when the equipment is in Transmit mode.

The spurious emissions of the transmitter shall not exceed the values in tables in the indicated bands:

Frequency Range	Maximum Power	Bandwidth
	e.r.p(<=1GHz)/e.i.r.p(>1GHz)	
30MHz to 47MHz	-36dBm	100kHz
47MHz to 74MHz	-54dBm	100kHz
74MHz to 87.5MHz	-36dBm	100kHz
87.5MHz to 118MHz	-54dBm	100kHz
118MHz to 174MHz	-36dBm	100kHz
174 MHz to 230MHz	-54dBm	100kHz
230 MHz to 470MHz	-36dBm	100kHz
470 MHz to 862MHz	-54dBm	100kHz
862 MHz to 1GHz	-36dBm	100kHz
1 GHz to 12.75GHz	-30dBm	1MHz

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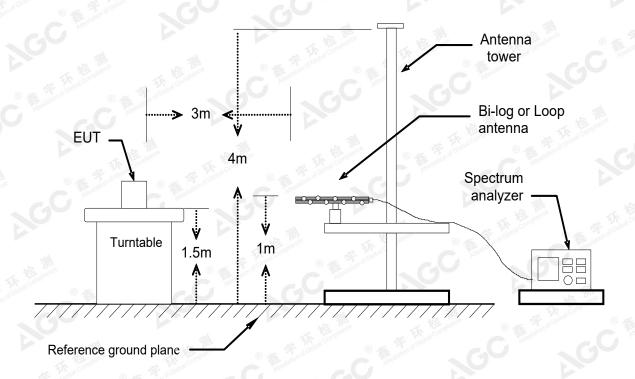
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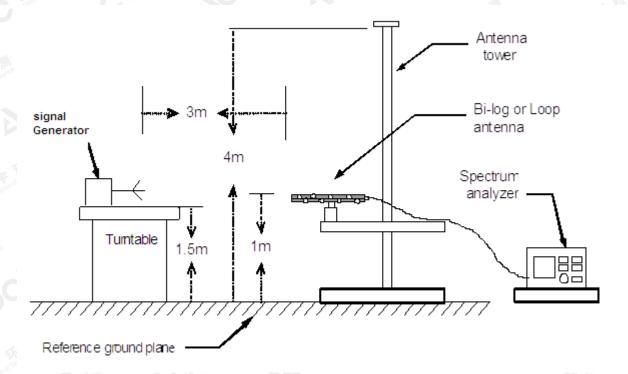




Test Configuration

Below 1GHz





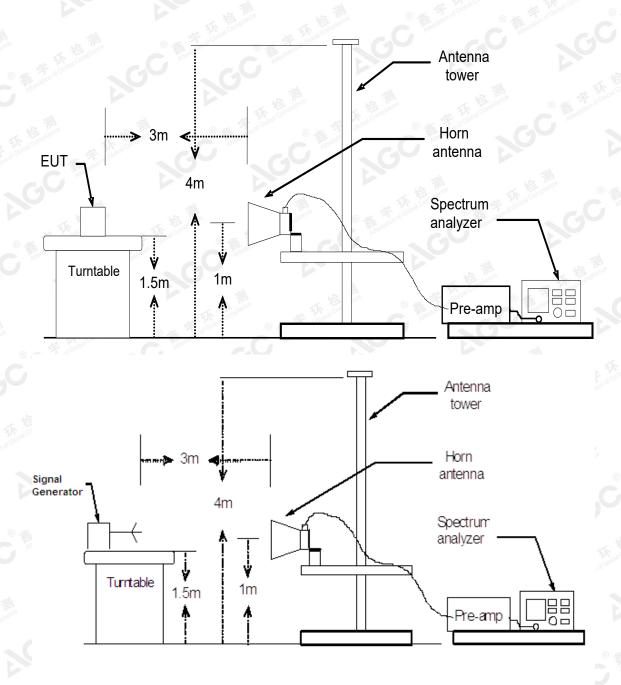
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Above 1GHz

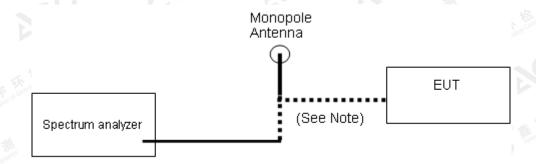


Radiated Method

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Conducted Method

TEST PROCEDURE

- 1. Replace the UUT with the substitution antenna as shown as above radiated method setup diagram. The substitution and the measurement antenna shall be vertically polarized.
- 2. Connect a signal generator to the substitution antenna and set it to the frequency being investigated.
- 3. The measurement antenna shall be raised or lowered, to ensure that the maximum signal is received.
- 4. Subsequently, the power of the signal generator is adjusted until the same level is obtained as recorded from the UUT.
- 5. The radiated power is equal to the power supplied by the signal generator, plus the gain of substitution antenna, minus the cable loss.
- 6. This measurement shall be replaced in horizontal polarization.

TEST SETTING

The emissions over the range 30 MHz to 1 000 MHz shall be identified.

Spectrum analyzer settings:

Resolution bandwidth: 100 kHzVideo bandwidth: 300 kHz

Detector mode: Peak
Trace Mode: Max Hold
Sweep Points: ≥ 9 970

The emissions over the range 1 GHz to 12.75 GHz shall be identified.

Spectrum analyzer settings:

· Resolution bandwidth: 1 MHz

Video bandwidth: 3 MHz

Detector mode: Peak

Trace Mode: Max Hold

Sweep Points: Sweep time [μs] / (1 μs) with a maximum of 30 000

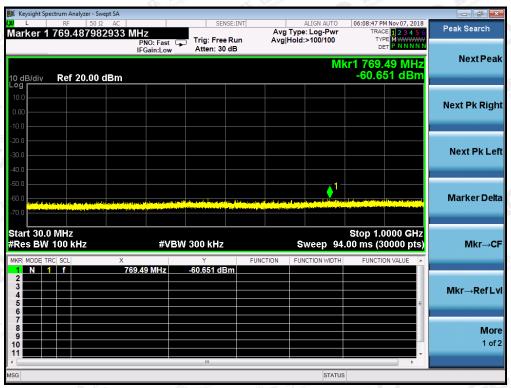
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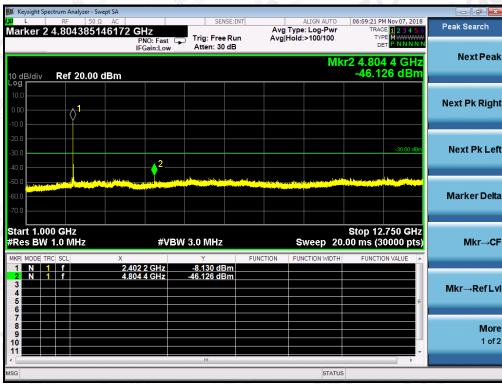


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TEST RESULTS

CONDUCTED RESULTS: (Low channel)

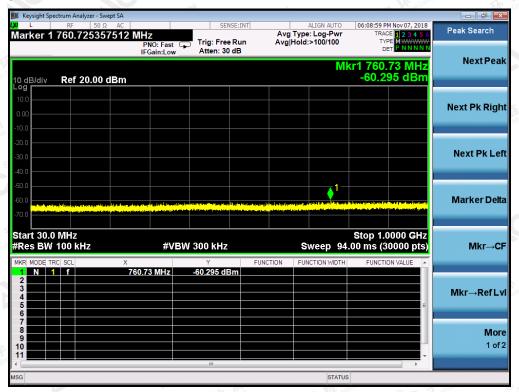


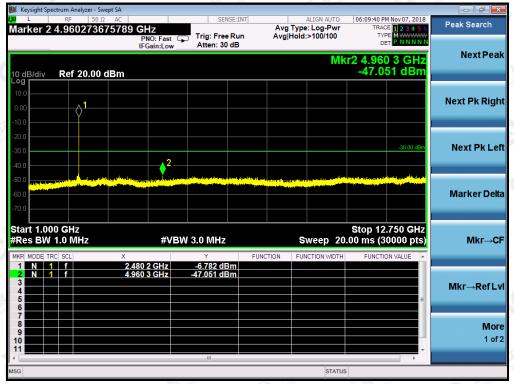


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(High channel)





Conclusion: PASS

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TEST RESULTS FOR RADIATED METHOD

Low Channel: Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
94.74	31.90	V	-60.84	0.04	1.72	-59.16	-54.00	5.16
156.68	27.94	V_	-63.96	0.06	0.80	-63.22	-36.00	27.22
227.47	31.78	V	-64.89	0.10	7.32	-57.67	-54.00	3.67
364.34	31.29	V	-65.70	0.26	6.72	-59.24	-36.00	23.24
440.09	30.60	V V	-63.26	0.35	6.20	-57.41	-36.00	21.41
839.33	29.94	station of Case V	-69.18	0.67	6.93	-62.91	-54.00	8.91
Other(30- 1000)	C.	V	<u>-</u>			三环烷型	-36.00/- 54.00	ppliones
-til	-mh	3/1	Compliance	The Global Compile	(C) (S)	alion of	Attestation	
94.56	29.59	® Hation of Clo	-63.66	0.04	1.72	-61.98	-54.00	7.98
164.24	28.50	G H	-63.58	0.06	1.52	-62.12	-36.00	26.12
263.68	28.99	Н	-67.52	0.14	7.20	-60.46	-36.00	24.46
458.93	29.66	H ®	-69.49	0.37	6.64	-63.23	-36.00	27.23
548.22	26.65	H.C	-69.65	0.46	6.80	-63.31	-54.00	9.31
652.64	32.25	Н	-66.44	0.53	7.18	-59.79	-54.00	5.79
Other(30- 1000)	10 Th	H H THE	<u></u>	Find Class Compliance	® # Zhoulon of Clobal's	- 6	-36.00/- 54.00	- C-

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High Channel: Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
85.17	29.43	V	-61.11	0.04	0.70	-60.45	-36.00	24.45
163.98	30.58	10 V	-60.70	0.06	1.44	-59.32	-36.00	23.32
242.38	31.01	V_C	-68.37	0.12	6.72	-61.77	-36.00	25.77
369.47	29.60	V	-66.16	0.27	6.62	-59.81	-36.00	23.81
463.30	30.25	V	-68.44	0.38	6.73	-62.09	-36.00	26.09
583.94	31.04	The Vanction	-65.77	0.48	6.20	-60.05	-54.00	6.05
Other(30- 1000)		V	Alles lating 6	NO			-36.00/- 54.00	Mil.
			-min			The Kill plance	The acou	ib
98.90	30.70	H	-62.80	0.04	1.50	-61.34	-54.00	7.34
159.74	29.70	® H Station of Clor	-64.50	0.06	1.10	-63.46	-36.00	27.46
325.13	30.33	Н	-64.79	0.22	6.10	-58.91	-36.00	22.91
457.23	30.42	Н	-68.96	0.37	6.61	-62.72	-36.00	26.72
536.00	29.85	Compliance H ©	-67.35	0.45	6.96	-60.83	-54.00	6.83
684.24	29.17	H.C	-68.18	0.55	6.44	-62.30	-54.00	8.30
Other(30- 1000)	O	Н		- 1711 AND	16	Jampilones	-36.00/- 54.00	® #

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Low Channel: Transmitter Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
2558.60	42.61	V	-55.38	1.58	7.94	-49.01	-30.00	19.01
4804.61	44.04	V	-50.77	2.64	9.30	-44.10	-30.00	14.10
7204.47	31.46	V	-69.57	3.14	11.28	-61.43	-30.00	31.43
Other(1000- 12750)	The Manager	V	 	Zamplance -	D A tolonal com	(S) THE SHOULD OF CHAPTER OF CHAP	-30.00	G American
0 # ¹ / ₃	of Global	A Clopal Co.	® # For of Glov	2. C				
2558.42	41.42	H C	-57.56	1.58	7.94	-51.20	-30.00	21.20
4804.34	42.84	Н	-49.80	2.64	9.30	-43.13	-30.00	13.13
7208.70	43.19	H	-55.99	3.14	11.28	-47.84	-30.00	17.84
Other(1000- 12750)	on of Global Compliant	C H station of	GC	Alfestation	<u> </u>	1-	-30.00	- 利

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High Channel: Transmitter Spurious Emission above 1GHz (1GHz-12.75GHz)

po-			Illine	lin-		2000	3/1 1/00	5-5-
Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
2564.08	46.63	V	-55.71	1.58	7.93	-49.36	-30.00	19.36
4960.98	45.47	₩ V ©	-50.99	2.75	9.62	-44.12	-30.00	14.12
7159.03	30.81	V	-64.91	3.15	11.21	-56.84	-30.00	26.84
Other(1000- 12750)		V			- 环境	和 环	-30.00	(S) Alles Jilon of God
	TK Kingliance	15 Milance	EK.	Compliance	® Martin of Comme	Attestation	- G	
2564.25	52.10	Food Copy H	-55.47	1.58	7.93	-49.13	-30.00	19.13
4961.26	40.75	HO	-51.53	2.75	9.62	-44.66	-30.00	14.66
7158.49	35.91	Н	-64.33	3.15	11.21	-56.27	-30.00	26.27
Other(1000- 12750)	不管	© H Fr	al Company	Mestarion of Global Comm	CC TO	N.G.C	-30.00	

Note: All the above "--" means that the other spectrum have 20dB margin. No recording in the test report.

Conclusion: PASS

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4.9. RECEIVER SPURIOUS EMISSIONS

ETSI EN300328 SUBCLAUSE 4.3.2.10

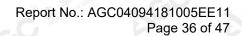
Receiver spurious emissions are emissions at any frequency when the equipment is in receive mode. The spurious emissions of the receiver shall not exceed the values given in table 13.

Table 13: Spurious emission limits for receivers

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

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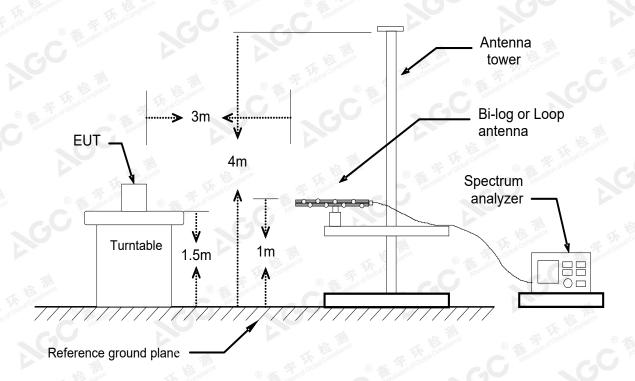
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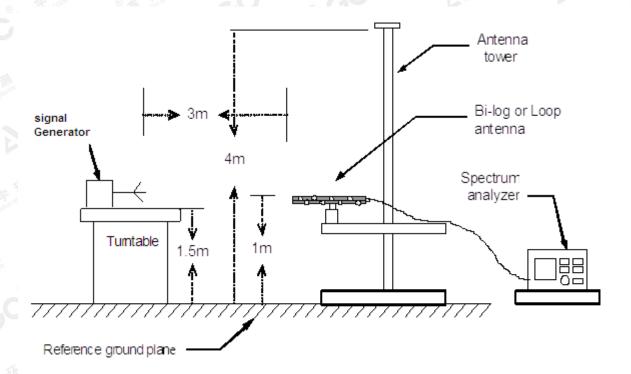




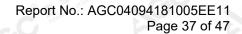
Test Configuration

Below 1GHz



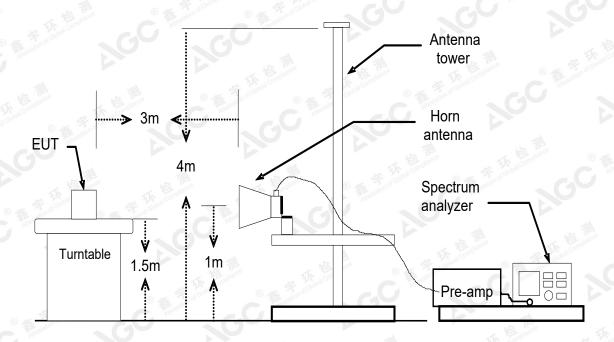


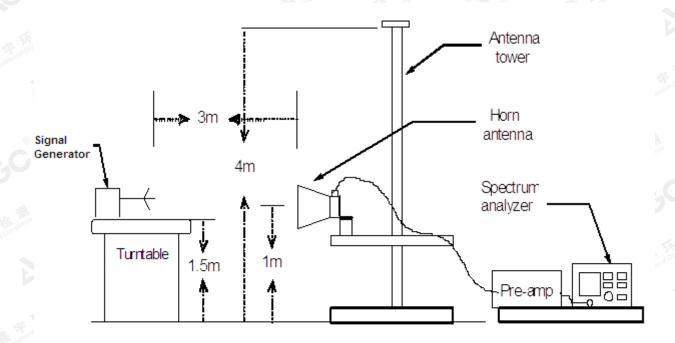
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Above 1GHz



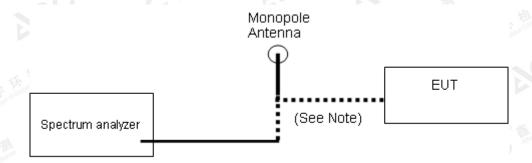


Radiated Method

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Conducted Method

TEST PROCEDURE

- 1. Replace the UUT with the substitution antenna as shown as above radiated method setup diagram. The substitution and the measurement antenna shall be vertically polarized.
- 2. Connect a signal generator to the substitution antenna and set it to the frequency being investigated.
- 3. The measurement antenna shall be raised or lowered, to ensure that the maximum signal is received.
- 4. Subsequently, the power of the signal generator is adjusted until the same level is obtained as recorded from the UUT.
- 5. The radiated power is equal to the power supplied by the signal generator, plus the gain of substitution antenna, minus the cable loss.
- 6. This measurement shall be replaced in horizontal polarization.

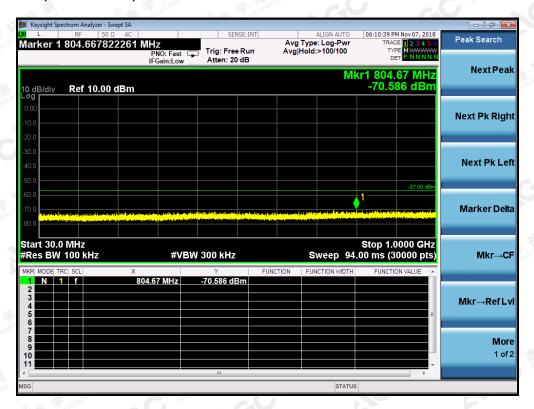
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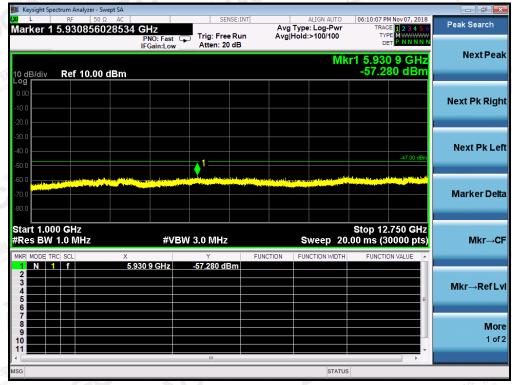


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TEST RESULTS FOR CONDUCTED METHOD

RECEIVER MODE(Low channel)



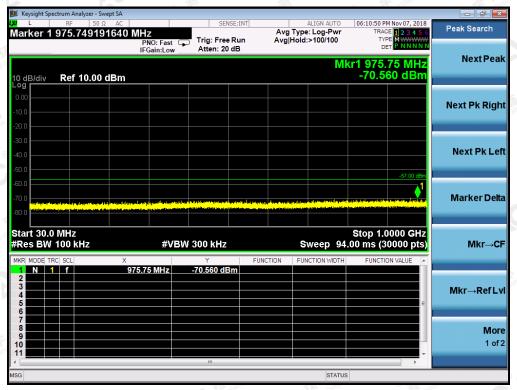


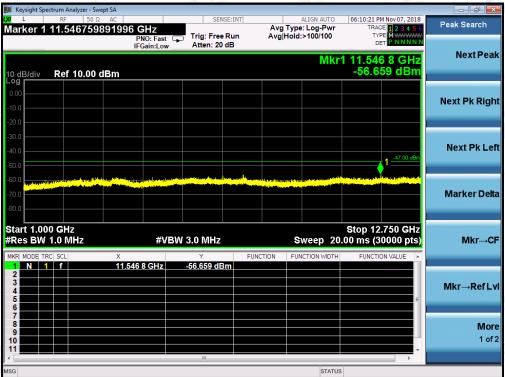
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RECEIVER MODE (High channel)





Conclusion: PASS

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TEST RESULTS FOR RADIATED METHOD

Low Channel: Receiver Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
94.69	28.73	V	-72.72	0.04	1.72	-71.04	-57.00	14.04
156.86	28.41	V	-71.35	0.06	0.80	-70.61	-57.00	13.61
244.46	28.54	V	-77.54	0.12	6.84	-70.82	-57.00	13.82
359.39	29.06	V	-76.09	0.26	6.67	-69.68	-57.00	12.68
442.62	28.55	The Vindows	-76.25	0.35	6.24	-70.36	-57.00	13.36
869.86	28.31	station of Care	-75.24	0.68	5.62	-70.30	-57.00	13.30
Other(30- 1000)	<u>C-</u>	V	<u></u>	-		E Transfer	-57.00	ngliarice @
all	-1111	3/1	1 Compliance	E Gloval Compiler	® 4	alion of C	Alfestation	
95.79	27.60	® Hatalon of Glob	-73.04	0.04	1.80	-71.28	-57.00	14.28
124.41	27.49	G H	-70.45	0.04	0.40	-70.09	-57.00	13.09
225.43	28.34	Н	-77.47	0.10	7.80	-69.77	-57.00	12.77
439.15	28.77	H @	-76.62	0.35	6.27	-70.70	-57.00	13.70
524.45	29.00	H.C	-79.58	0.44	6.54	-73.48	-57.00	16.48
645.25	28.62	Н	-77.01	0.53	7.15	-70.39	-57.00	13.39
Other(30- 1000)	7 <u>1</u>	H	 ® #	Find Charles Compliance	(S) The station of citable	<u>-</u> .C	-57.00	-,0-

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High Channel: Receiver Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
93.03	29.71	V	-71.52	0.04	1.64	-69.92	-57.00	12.92
132.93	28.71	100 V	-69.80	0.05	0.06	-69.79	-57.00	12.79
242.47	28.62	V	-77.14	0.12	6.72	-70.54	-57.00	13.54
365.05	28.96	V	-77.09	0.26	6.70	-70.65	-57.00	13.65
454.46	28.95	V	-76.00	0.37	6.52	-69.85	-57.00	12.85
986.43	29.65	J. V	-75.46	0.76	6.56	-69.66	-57.00	12.66
Other(30- 1000)		V	Altesations -	F.G.		-	-57.00	
			- Millo	- 1		The Compliance	- Francis	mp
89.88	29.68	Н	-71.31	0.04	1.26	-70.09	-57.00	13.09
157.72	30.07	® H Food Glob	-71.78	0.06	0.90	-70.94	-57.00	13.94
352.43	28.85	Н	-77.08	0.25	5.76	-71.57	-57.00	14.57
428.49	29.54	Н	-76.97	0.34	6.94	-70.36	-57.00	13.36
525.37	29.44	Compliance H ©	-77.36	0.44	6.55	-71.25	-57.00	14.25
878.64	30.22	H.C	-76.60	0.69	5.84	-71.45	-57.00	14.45
Other(30- 1000)	<u> </u>	Н		- 10 M	16	Jampianos	-57.00	0 <u>4</u>

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Low Channel: Receiver Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
9669.77	28.28	V V	-70.92	2.97	11.20	-62.69	-47.00	15.69
The Complete	The Total Constant	V	Attesta	Alfestation	GO I		-47.00	
Attestation	Attestation	V	>				-47.00	
10	-70	V		7M	The Miles	I Fold	-47.00	Allestation &
3	Slobal Compliano	V	不可以		Allas Hion G	2G-Allesta	-47.00	
Other(1000- 12750)		V	Allesten	C		- 100	-47.00	7/1
				-	11	The Compliance	FA Global Co	ATTAN TO THE PARTY OF THE PARTY
9624.66	30.11	Н	-71.03	2.97	11.20	-62.80	-47.00	15.80
松 加加	环境。	® H Francisco	<u> </u>	Attostation of G	CO	1-0	-47.00	
© #	on of Gib	у н	G			(-47.00	The Complian
(G		Н	梅	- IIII	The same	® # clation of Global	-47.00	Station of Globa
- Ki 1000	56	Compliance H @	The Chopal Co	<u>@</u>	of Glove	G - 3	-47.00	
Other(1000- 12750)	® Medation of Glob	H	Ane	Q ₀		<u></u>	-47.00	ill

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High Channel: Receiver Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarizati on	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
9280.15	29.98	V V	-67.46	2.97	11.20	-59.23	-47.00	12.23
The Complian	扒	V_C	Attestand	C - Altestation	GO"		-47.00	
Allosiallo	Allestation	V	>	—	-	<u></u>	-47.00	1
	-30/	V		III	FV AFE		-47.00	(B) Alestallon (S)
- 4	The KE millance	V V V	平玩	Complai.	Allestation of	EC-Allesand	-47.00	
Other(1000- 12750)	_C *	surior of V	Alfestation	C			-47.00	
			linz.	JE AN		E Clobal Compliano	To of Goodal Co	Land Control
9581.63	29.94	H	-70.35	2.97	11.20	-62.12	-47.00	15.12
The state of the s	The designation of the second	® H Hard Glo	®	Attestation of Gio	(G)	-0	-47.00	
- C Allesta	on of Glob	5 О н	G			1	-47.00	The Complian
C _F		Н	k	JIII	A Source	(8) Jahon of Global	-47.00	Station of Glova
- Ki 1000	56	Emplano H ©	St. John Cool	O THE STATE OF THE	Jol Glopes	G	-47.00	
Other(1000- 12750)	® Alles allon of Glot	H.C	Allee -	G _C			-47.00	<u></u>

Note: All the above "--" means that the other spectrum have 20dB margin. No recording in the test report.

Conclusion: PASS

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4.10. RECEIVER BLOCKING

ETSI EN300328 SUBCLAUSE 4.3.2.11

This requirement applies to all receiver categories as defined in clause 4.2.3.

Performance Criteria

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

Receiver Category 1

Table 14 contains the Receiver Blocking parameters for Receiver Category 1 equipment.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
P _{min} + 6 dB	2 380 2 503,5	-53	cw
P _{min} + 6 dB	2 300 2 330 2 360	-47	CW
P _{min} + 6 dB	2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5	-47	CW

NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.2.11.3 in the absence of any blocking signal.

NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

Receiver Category 2

Table 15 contains the Receiver Blocking parameters for Receiver Category 2 equipment.

Table 15: Receiver Blocking parameters receiver category 2 equipment

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
P _{min} + 6 dB	2 380 2 503,5	-57	cw
P _{min} + 6 dB	2 300 2 583,5	-47	cw

NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.2.11.3 in the absence of any blocking signal.

NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

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Receiver Category 3

Table 16 contains the Receiver Blocking parameters for Receiver Category 3 equipment.

Table 16: Receiver Blocking parameters receiver category 3 equipment

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
P _{min} + 12 dB	2 380 2 503,5	-57	CW
P _{min} + 12 dB	2 300 2 583,5	-47	CW

NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.2.11.3 in the absence of

any blocking signal.

NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

TEST PROCEDURE

- 1. Please refer to ETSI EN 300 328 clause 5.3 for the test conditions.
- 2. Please refer to ETSI EN 300 328 clause 5.4.11 for the measurement methods

TEST RESULTS (Low channel, Direct Test Mode, Receiver Category 3)

Wanted signal mean power from companion device(dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power(dBm)	Type of blocking signal	Limit PER	Performance PER	Result
Pmin (-84)+12	2380	-57	CW	10%	0.20%	C AMESSE
Pmin (-84)+12	2503.5	-57	CW	10%	0.11%	Pass
Pmin (-84)+12	2300	-47	CW	10%	0.17%	T. A Compliance
Pmin (-84)+12	2583.5	-47	CW	10%	0.12%	Pass

(High channel, Direct Test Mode, Receiver Category 3)

Wanted signal mean power from companion device(dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power(dBm)	Type of blocking signal	Limit PER	Performance PER	Result
Pmin (-84)+12	2380	-57	CW	10%	0.10%	Emplanes ®
Pmin (-84)+12	2503.5	-57	CW	10%	0.18%	Pass
Pmin (-84)+12	2300	-47	CW	10%	0.29%	
Pmin (-84)+12	2583.5	-47	CW	10%	0.21%	Pass

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APPENDIX A PHOTOGRAPHS OF THE TEST SETUP

Refer to Attached file(appendix I)

APPENDIX B
PHOTOGRAPHS OF THE EUT

Refer to Attached file(appendix I)

----END OF REPORT----

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