
RF Test Report

Report No.: AGC12440210702EE04

PRODUCT DESIGNATION : WIRELESS MOON SHAPED SPEAKER
BRAND NAME : N/A
MODEL NAME : M09745
APPLICANT : Mid Ocean Brands B.V.
DATE OF ISSUE : Jul. 28, 2021
STANDARD(S) : ETSI EN 300 328 V2.2.2 (2019-07)
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	/	Jul. 28, 2021	Valid	Initial Release

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1. TEST RESULT CERTIFICATION

Applicant	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
manufacturer	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Factory	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Product Designation	WIRELESS MOON SHAPED SPEAKER
Brand Name	N/A
Test Model	MO9745
Date of test	Jul. 22, 2021 to Jul. 28, 2021
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-BR/RF

We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the European Standard ETSI EN 300 328 V2.2.2. The results of test 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.

Prepared By 

 Eddy Liu
 Project Engineer Jul. 28, 2021

Reviewed By 

 Max Zhang
 Reviewer Jul. 28, 2021

Approved By 

 Forrest Lei
 Authorized Officer Jul. 28, 2021

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2. TECHNICAL INFORMATION

2.1. EUT DESCRIPTION

Operating Frequency Range(s)	2402MHz~2480MHz
The type of the equipment	FHSS adaptive equipment with only one antenna
Modulation	<input checked="" type="checkbox"/> GFSK , <input checked="" type="checkbox"/> π /4-DQPSK, <input type="checkbox"/> 8-DPSK
Bluetooth Version	V5.0
The number of Hopping Frequencies	79
Nominal Channel Bandwidth	1MHz
The maximum RF Output Power	1.34dBm
Hardware Version	V1.1
Software Version	5.0
Antenna designation	<input checked="" type="checkbox"/> PCB Antenna (Temporary RF connector provided by manufacture) <input type="checkbox"/> Dedicated Antenna
Antenna gain	2dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter
The extreme operating conditions	Operating temperature range: -10°C~45°C
Geo-location capability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Note:

1. The above information was declared by the manufacturer.
2. The equipment submitted representative production models.
3. The EUT cannot operated unmodulated.
4. The EUT provides Bluetooth wireless interface operating at 2.4G ISM band (2402MHz-2480MHz).
5. Only the Bluetooth was tested according the standard requirement.
6. The EUT is a stand-alone and portable equipment according to ETSI EN 300 328 V2.2.2.
7. For more details, please refer to the User's manual of the EUT.
8. The EUT doesn't support BLE.

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2.2. SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
--	--	--	--	--

2.3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Hopping
5	Low channel (Receiver Mode)
6	Middle channel (Receiver Mode)
7	High channel (Receiver Mode)

Note:

- All the transmit mode would tested with each modulation (GFSK, $\pi/4$ -DQPSK).
- 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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2.4. OBJECTIVE

Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the Radio Equipment Directive (2014/53/EU) for the BT function of the EUT.

2.5. TEST ITEMS AND THE RESULTS

The EUT has been tested according to ETSI EN 300 328 V2.2.2(2019-07).

ETSI EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
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Test items and the results are as below:

No	Basic Standard	Test Type	Test Mode	Result
1	ETSI EN 300 328 4.3.1.2	RF Output Power	Mode 4	Pass
2	ETSI EN 300 328 4.3.1.3	Duty Cycle, Tx-sequence, Tx-gap	N/A	N/A
3	ETSI EN 300 328 4.3.1.4	Accumulated transmit time, Frequency Occupation and hopping sequence	Mode 4	Pass
4	ETSI EN 300 328 4.3.1.5	Hopping Frequency Separation	Mode 4	Pass
5	ETSI EN 300 328 4.3.1.6	Medium Utilisation	N/A	N/A
6	ETSI EN 300 328 4.3.1.7	Adaptivity (Adaptive Frequency Hopping)	N/A	N/A
7	ETSI EN 300 328 4.3.1.8	Occupied Channel Bandwidth	Mode 1,3	Pass
8	ETSI EN 300 328 4.3.1.9	Transmitter unwanted emission in the out of band domain	Mode 1,3	Pass
9	ETSI EN 300 328 4.3.1.10	Transmitter unwanted emission in the Spurious domain	Mode 1,3	Pass
10	ETSI EN 300 328 4.3.1.11	Receiver Spurious emissions	Mode 5,7	Pass
11	ETSI EN 300 328 4.3.1.12	Receiver Blocking	Mode 4	Pass

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 2, 5, 6 are not applicable.

2.6. ENVIRONMENTAL CONDITIONS

- Temperature: 5-35°C
- Relative humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

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3. 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, $U_c = \pm 1 \times 10^{-7}$
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8\text{dB}$
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6\text{dB}$
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7\text{dB}$
- Uncertainty of spurious emissions, radiated, $U_c = \pm 5.4\text{dB}$
- Uncertainty of Temperature: $\pm 0.5^\circ \text{C}$
- Uncertainty of Humidity: $\pm 1 \%$
- Uncertainty of DC and low frequency voltages: $\pm 2\%$

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4. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Site	Attestation of Global Compliance(Shenzhen) Co., Ltd.
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

LIST OF EQUIPMENTS USED

Description	Manufacturer	Model No.	S/N	Calibration Due.	Calibration Due.
MXG X-Series Vector Signal Generator	Agilent	N5182B	MY50140530	Aug. 21,2020	Aug. 20,2021
Signal Generator	Agilent	N5171B	MY45141029	Aug. 21,2020	Aug. 20,2021
EXA Signal Analyzer	Agilent	N9020A	MY52090123	Aug. 21,2020	Aug. 20,2021
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	May 11, 2021	May 10, 2025
USB Wideband Power Sensor	Agilent	U2021XA	MY54110009	May 11, 2021	May 10, 2025
RF Communication Tester	R&S	CMW270	1201.0002K7 5 -100528-Tu WIRELESSC O NN.TESTER	Aug. 21,2020	Aug. 20,2021
Attenuator	Warriors	W13	11324	N/A	N/A
Power splitter	Mini-Circuits	ZFRSC-183-s	3122	N/A	N/A
2.4G Band Fliter	EM Electronics	2400-2500	N/A	Mar. 23, 2020	Mar. 22, 2022
Small environment tester	ESPEC	SH-242	N/A	Oct. 08, 2019	Oct. 07, 2021
AMPLIFIER	ETS-LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2021
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
ANTENNA	ETS-LINDGREN	3142C	00060447	N/A	N/A
HORN ANTENNA	ETS-LINDGREN	3117	00154520	Oct. 26, 2019	Oct. 25, 2021
HORN ANTENNA	ETS-LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
RF Cable	Harbour	RE004	N/A	May 15, 2020	May 14, 2022

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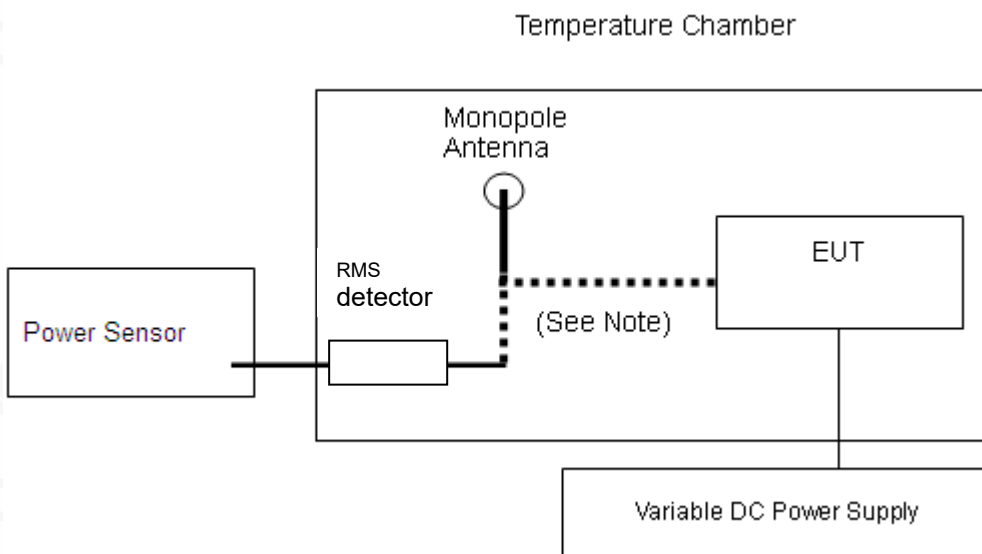
5. ETSI EN 300 328 REQUIREMENTS

5.1. RF OUTPUT POWER

EN 300 328 Clause 4.3.1.2

The maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20 dBm. The maximum RF output power for non-adaptive Frequency Hopping equipment, shall be declared by the supplier. See clause 5.3.1 m). The maximum RF output power for this equipment shall be equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.

Test Configuration



Remarks:

EUT was direct connected to test equipment through coupling device.

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TEST PROCEDURE

1. Please refer to ETSI EN 300 328 (V2.2.2) clause 5.4.2.1 for the test conditions.
2. Please refer to ETSI EN 300 328 (V2.2.2) clause 5.4.2.2.1 for the measurement method.

TEST RESULTS

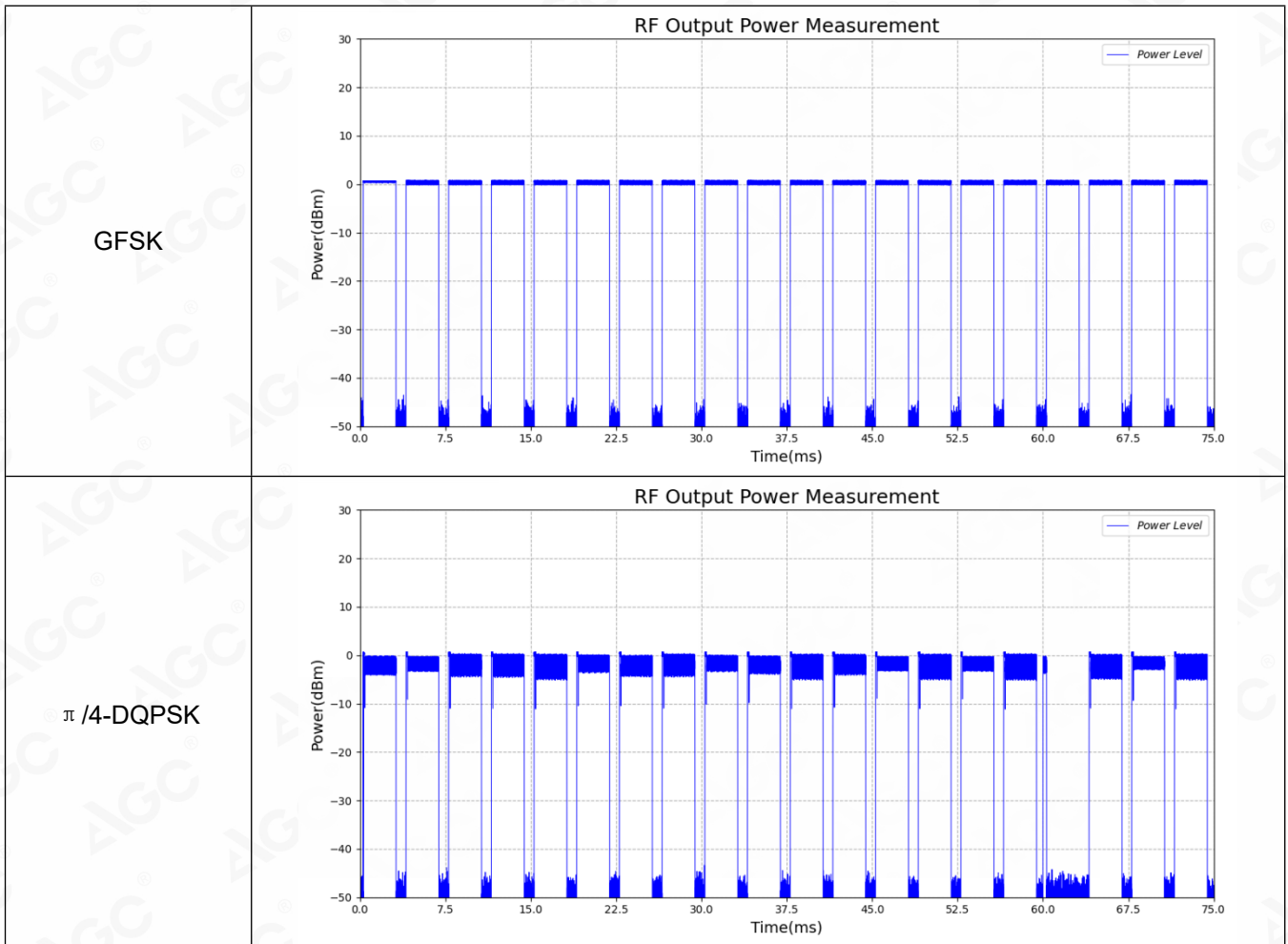
Operation Mode:	Hopping mode	Test Date:	Jul. 23, 2021
Temperature:	25°C	Tested by:	Liu
Humidity:	55 % RH		
Number of Burst		=	13
Measurement Time		=	50ms

TEST CONDITIONS	RF OUTPUT POWER MEASUREMENT RESULT (dBm)		
	Temp (25)°C	Temp (-10)°C	Temp (45)°C
FOR GFSK MOUDULATION	0.51	0.46	0.41
II/4-DQPSK MOUDULATION	1.34	1.28	1.23
Limit	20dBm		

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Note: Result=Reading+ Ant. Gain
Only the worst case recorded in the test report.

Conclusion: PASS

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5.2. ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPIATION AND HOPPING SEQUENCE

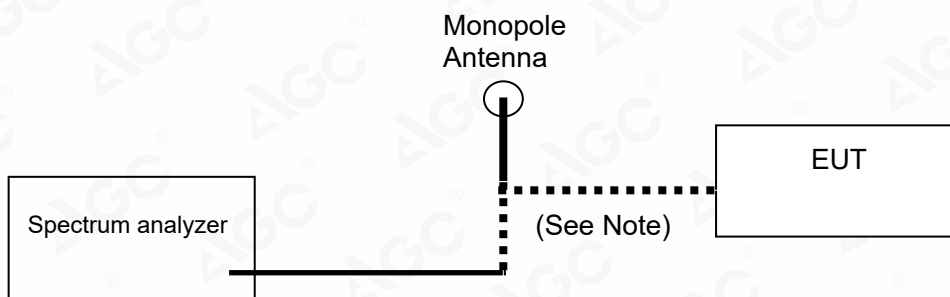
ETSI EN 300 328 SUBCLAUSE 4.3.1.4

ACCUMULATED TRANSMIT TIME	
CONDITION	LIMIT
<input type="checkbox"/> Non-adaptive frequency hopping systems	≤ 15 ms
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	≤ 400 ms

FREQUENCY OCCUPATION	
CONDITION	LIMIT(OPTION 1)
<input type="checkbox"/> Non-adaptive frequency hopping systems	Each hopping frequency of the hopping sequence shall be occupied at least once within a period not exceeding four times the product of the dwell time and the number of hopping frequencies in use.
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	

HOPPING SEQUENCE(S)	
CONDITION	LIMIT
<input type="checkbox"/> Non-adaptive frequency hopping systems	≥5 hopping frequencies or 5/minimum Hopping Frequency Separation in MHz , whichever is the greater.
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	Operating frequency band ≥58.45MHz (Operating over a minimum of 70 % of the operating in the band 2,4 GHz to 2,4835 GHz) ≥15 hopping frequencies or 15/minimum Hopping Frequency Separation in MHz , whichever is the greater.

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN300328 V2.2.2 Section 5.4.4

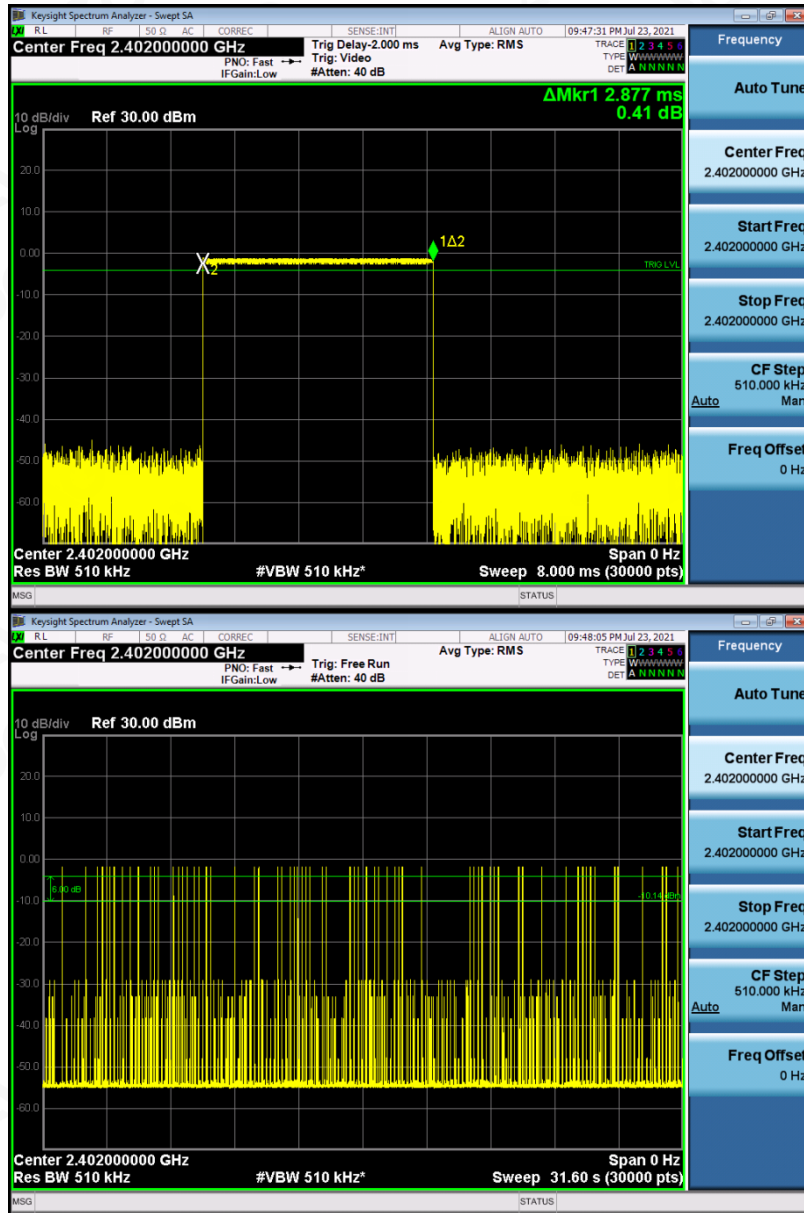
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Bluetooth 1Mbps (DH5) Test Result

Channel	Accumulated transmit time (ms)	Limit (ms)	Frequency Occupation (pcs)	Limit (pcs)
Low	247.422	≤400	4	≥1

Accumulated transmit time

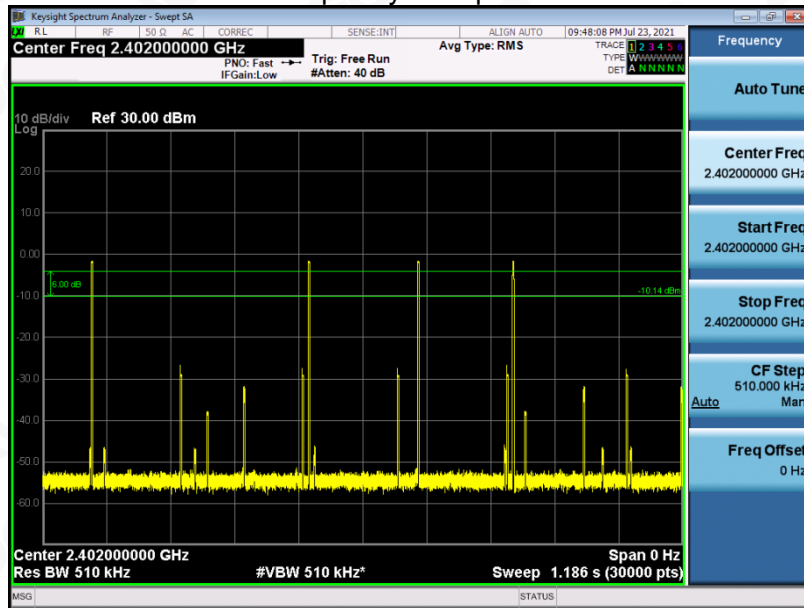


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Frequency Occupation



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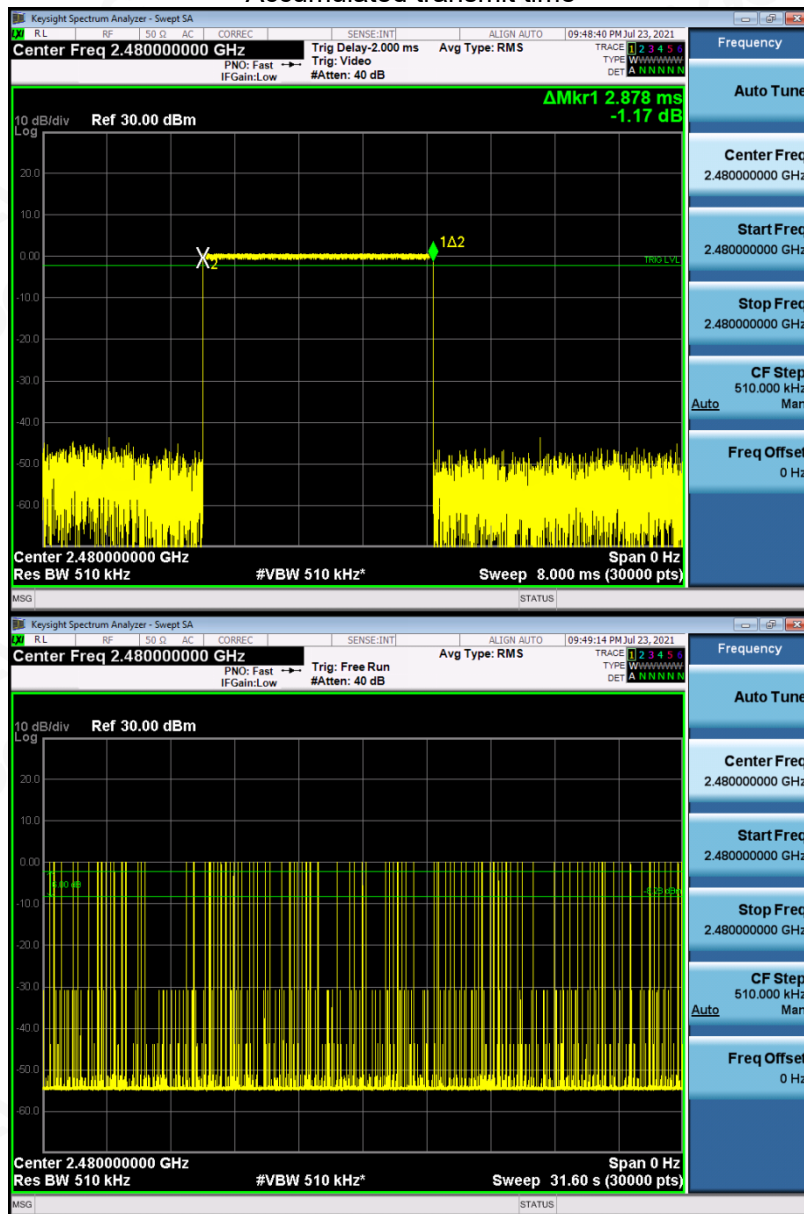
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Bluetooth 1Mbps(DH5) Test Result

Channel	Accumulated transmit time (ms)	Limit (ms)	Frequency Occupation (pcs)	Limit (pcs)
High	328.092	≤400	1	≥1

Accumulated transmit time

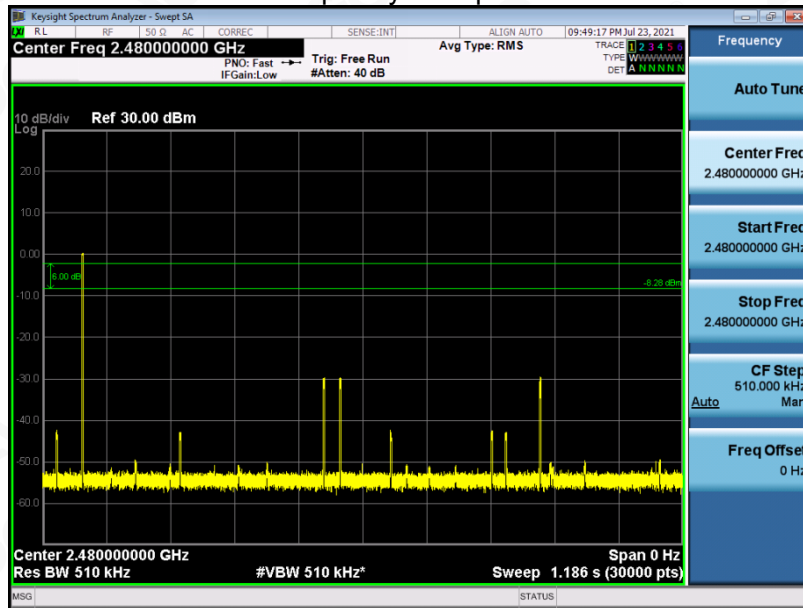


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Frequency Occupation



- Note:**
- 1) All the modes had been tested, but only the worst data recorded in the report.
 - 2) The Accumulated transmit time and Dwell Time are calculated by a computing device using an appropriate software application or program.
 - 3) Sweep time for Frequency Occupation= Dwell Time*4*79

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TEST RESULT FOR HOPPING SEQUENCE

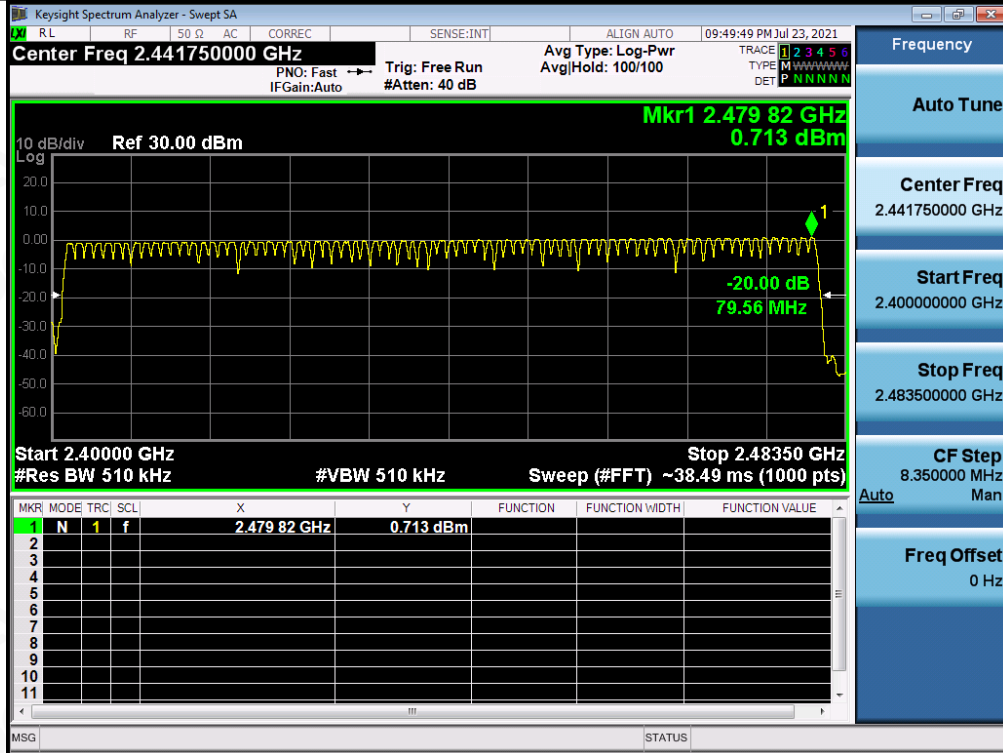
Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.402	42	2.443
02	2.403	43	2.444
03	2.404	44	2.445
04	2.405	45	2.446
05	2.406	46	2.447
06	2.407	47	2.448
07	2.408	48	2.449
08	2.409	49	2.450
09	2.410	50	2.451
10	2.411	51	2.452
11	2.412	52	2.453
12	2.413	53	2.454
13	2.414	54	2.455
14	2.415	55	2.456
15	2.416	56	2.457
16	2.417	57	2.458
17	2.418	58	2.459
18	2.419	59	2.460
19	2.420	60	2.461
20	2.421	61	2.462
21	2.422	62	2.463
22	2.423	63	2.464
23	2.424	64	2.465
24	2.420	65	2.466
25	2.426	66	2.467
26	2.427	67	2.468
27	2.428	68	2.469
28	2.429	69	2.470
29	2.430	70	2.471
30	2.431	71	2.472
31	2.432	72	2.473
32	2.433	73	2.474
33	2.434	74	2.475
34	2.435	75	2.476
35	2.436	76	2.477
36	2.437	77	2.478
37	2.438	78	2.479
38	2.439	79	2.480
39	2.440		
40	2.441		
41	2.442		

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Hopping Channel Test Plot

Hopping Sequence (MHz)	79.56
Hopping Number	79



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5.3. HOPPING FREQUENCY SEPARATION

ETSI EN 300 328 SUBCLAUSE 4.3.1.5

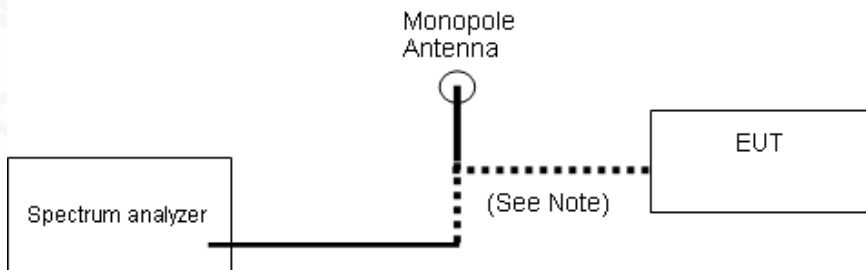
For Non-adaptive frequency hopping systems:

The minimum Hopping Frequency Separation shall be equal to Occupied Channel Bandwidth (see clause 4.3.1.7) of a single hop, with a minimum separation of 100 kHz.

For Adaptive frequency hopping systems:

The minimum Hopping Frequency Separation shall be 100 kHz.

CONFIGURATION

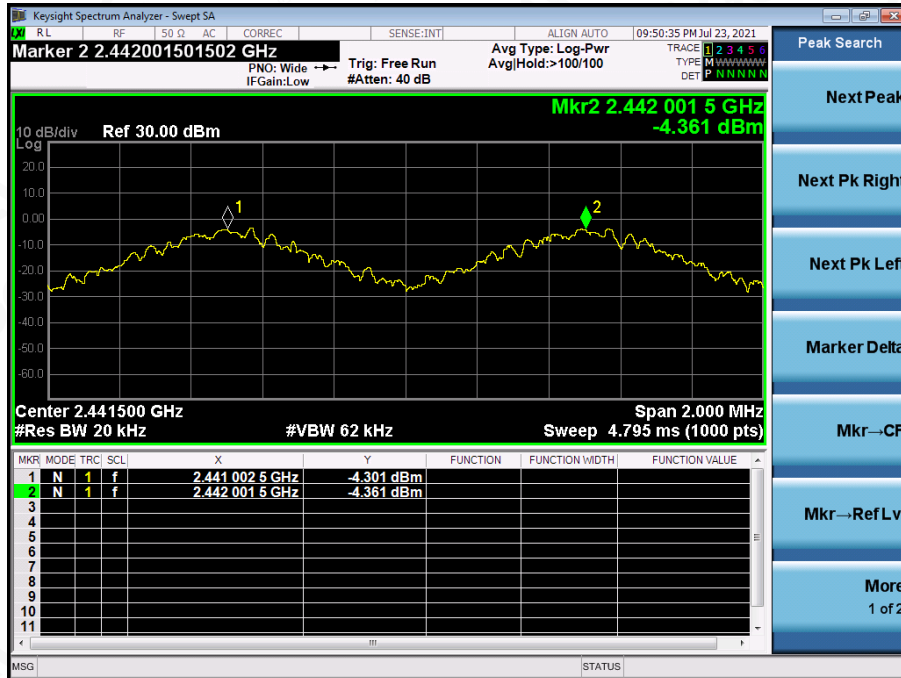


TEST PROCEDURE

Test Procedure please refer to clause 5.4.5.2.1

TEST RESULT

Hopping Frequency Separation (MHz) 0.999



Note: The modulation used during test is GFSK and this is the worst case.

Conclusion: PASS

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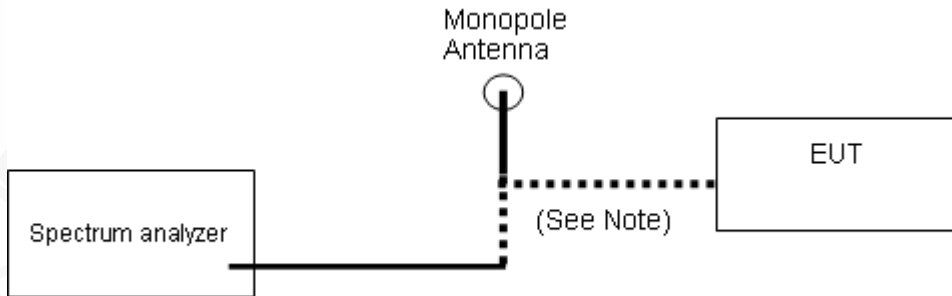


5.4. OCCUPIED CHANNEL BANDWIDTH

EN300328 4.3.1.4 OCCUPIED CHANNEL BANDWIDTH

The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 328 (V2.2.2) clause 5.4.7.1 for the test conditions.
2. Please refer to ETSI EN 300 328 (V2.2.2) clause 5.4.7.2 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 RESULTS

Modulation	Channel	OBW [MHz]	FL@OBW	FH@OBW	Verdict
GFSK	LCH	0.86500	2402.4364	---	PASS
GFSK	HCH	0.86545	---	2480.4367	PASS
$\pi/4$ DQPSK	LCH	1.1992	2401.608	---	PASS
$\pi/4$ DQPSK	HCH	1.2020	---	2480.6102	PASS

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Graphs



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5.5. TRANSMITTER UNWANTED EMISSIONS IN THE OUT OF BAND DOMAIN

EN300328 4.3.1.9 TRANSMITTER UNWANTED EMISSIONS IN THE OUT OF BAND DOMAIN

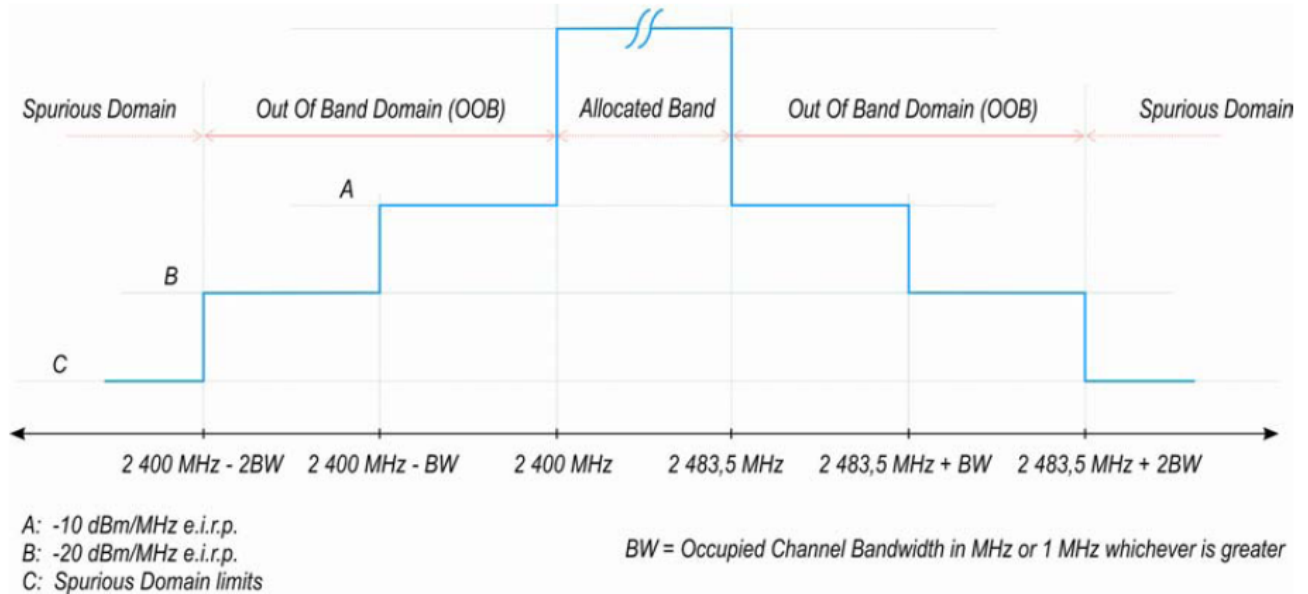
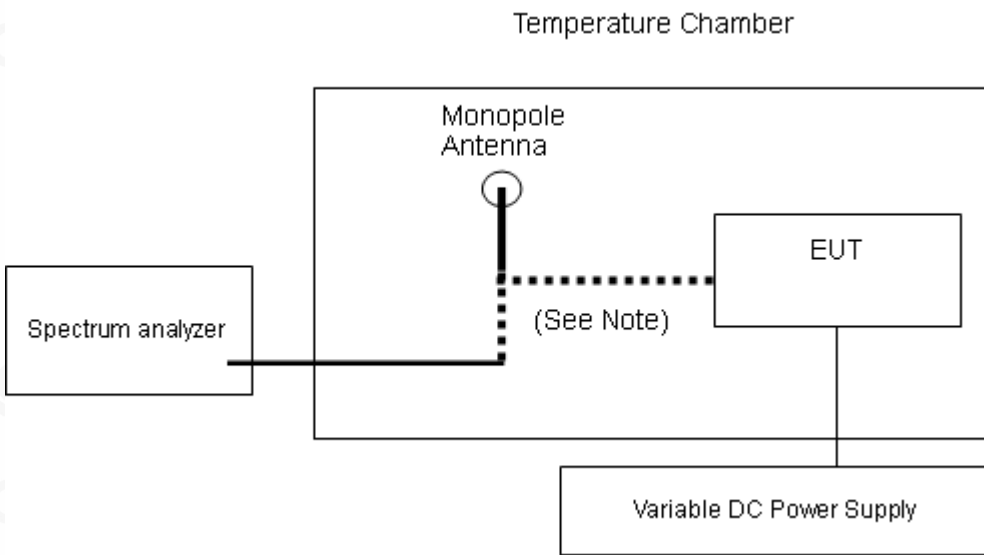


Figure 1: Transmit mask

TEST CONFIGURATION



For have temporary antenna connector product

TEST PROCEDURE

Test Procedure Please refer to ETSI EN 300 328 (V2.2.2) Clause 5.4.8.2.1

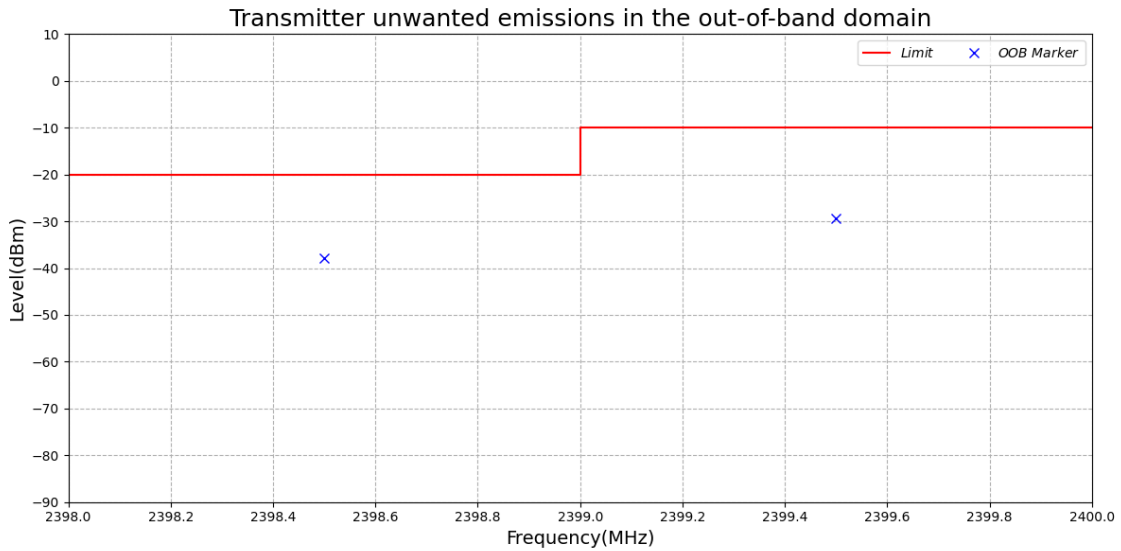
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



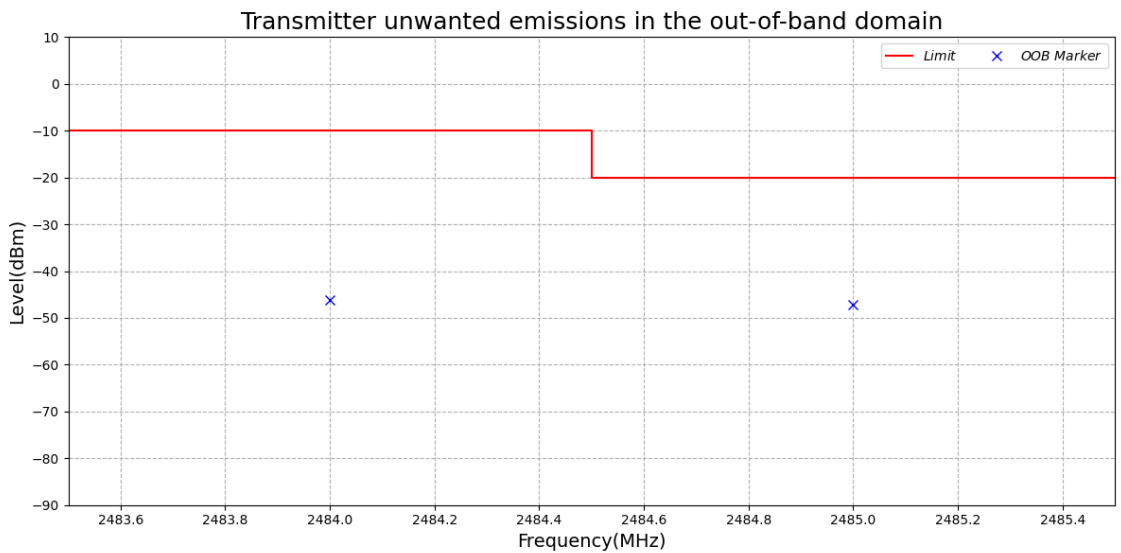
TEST RESULT

TEST CONDITIONS	Hopping mode		
	Temp (25)°C	Temp (-10)°C	Temp (45)°C
GFSK MOUDULATION	PASS	PASS	PASS
II/4-DQPSK MOUDULATION	PASS	PASS	PASS

GFSK-LOW BAND



GFSK-HIGH BAND



Note: All the modes had been tested, but only the worst data recorded in the report.

Conclusion: PASS

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5.6. TRANSMITTER SPURIOUS EMISSIONS

Spurious emissions are emissions outside the frequency range(s) of the equipment as defined in Clause 4.3.1.10.

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

Frequency Range	Maximum Power e.r.p(<=1GHz)/e.i.r.p(>1GHz)	Bandwidth
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 694MHz	-54dBm	100kHz
694 MHz to 1GHZ	-36dBm	100kHz
1 GHZ to 12.75GHZ	-30dBm	1MHz

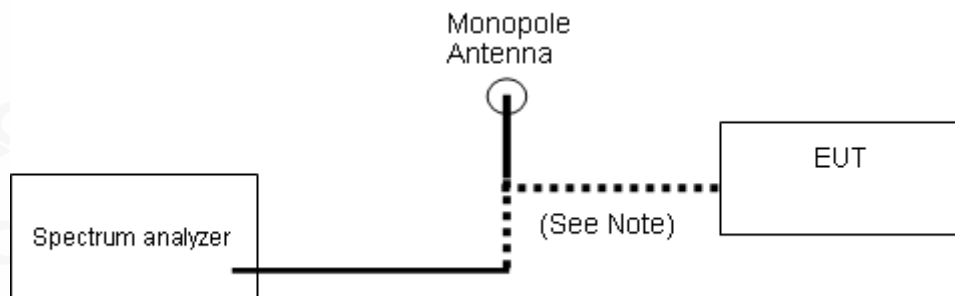
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TEST PROCEDURE

- 1) The emissions over the range 30 MHz to 1 000 MHz shall be identified.
- 2) Spectrum analyzer settings:
Resolution bandwidth: 100 kHz
Video bandwidth: 300 kHz
Detector mode: Peak
Sweep Points: $\geq 19\ 400$
Trace Mode: Max Hold
- 3) Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using RMS detector and compared to the limits.
- 4) The emissions over the range 1 GHz to 12,75 GHz shall be identified.
- 5) Resolution bandwidth: 1 MHz
Video bandwidth: 3 MHz
Detector mode: Peak
Trace Mode: Max Hold
Sweep Points: $\geq 23\ 500$
- 6) Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using RMS detector and compared to the limits.
- 7) For radiated method, the applicable measurement procedures as described in the EN 300 328 V2.2.2 annex C.2 and C.4 are used.

Test Configuration

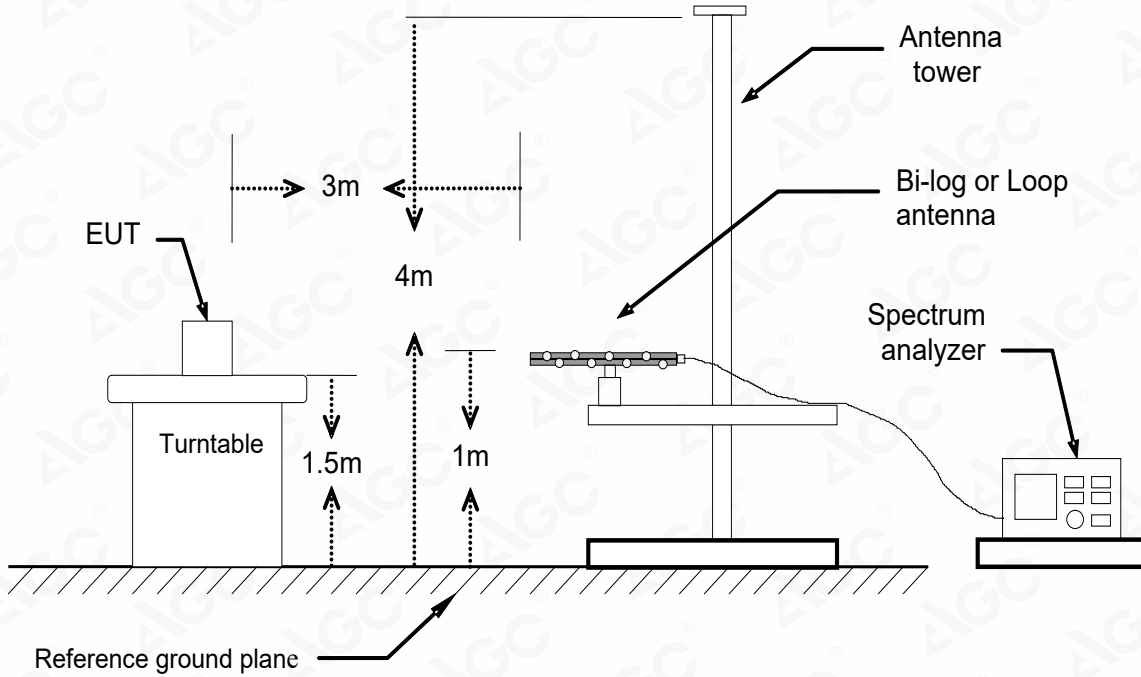


Conducted Method

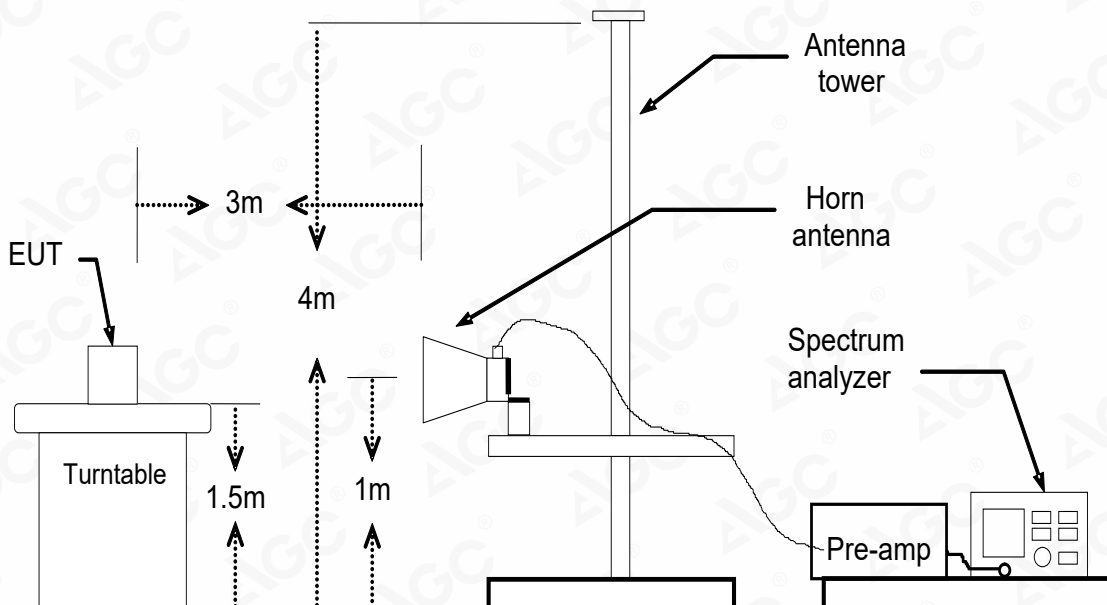
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Below 1GHz



Above 1GHz



Radiated Method

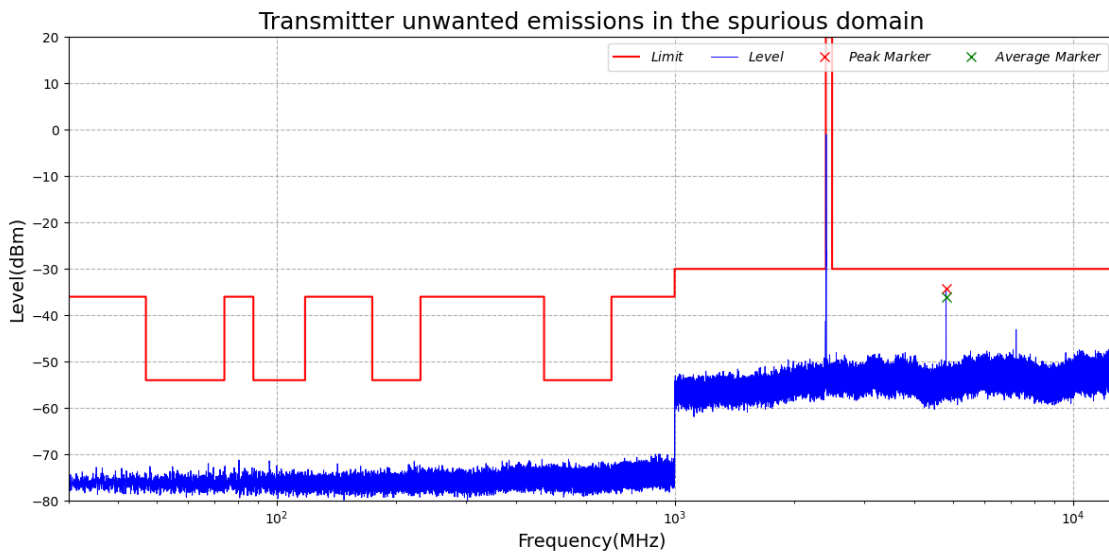
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



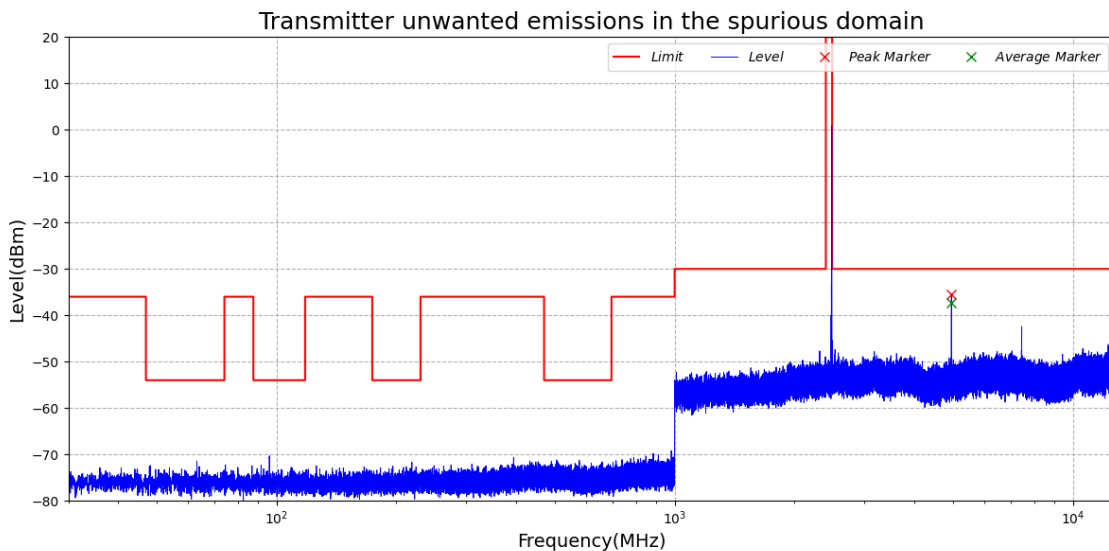
CONDUCTED RESULTS:

Test Mode	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	2402	4803.993	-34.248	-30	PASS
		4803.993	-35.995	-30	PASS
	2480	4959.881	-35.544	-30	PASS
		4959.881	-37.382	-30	PASS

(Worst Case: Low channel, 1Mbps)



(Worst Case: High channel, 1Mbps)



- Note: 1. All the modes had been test but only the worst data record in the report.
2. The 2.4G fundamental frequency is not considered to compare with the limit.*

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RADIATED RESULTS:
(Worst Case: Low channel, 1Mbps)

Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
90.28	31.48	V	-63.17	0.04	1.40	-61.81	-54.00	7.81
154.19	27.32	V	-66.48	0.06	0.70	-65.84	-36.00	29.84
357.81	30.34	V	-69.21	0.25	6.41	-63.06	-36.00	27.06
424.99	26.93	V	-72.86	0.33	7.02	-66.17	-36.00	30.17
630.58	28.11	V	-72.50	0.52	7.30	-65.72	-54.00	11.72
759.18	27.63	V	-71.64	0.61	6.55	-65.70	-36.00	29.70
Other(30-1000)	--	V	--	--	--	--	-36.00/-54.00	--
105.47	31.94	H	-61.07	0.04	0.80	-60.31	-54.00	6.31
155.46	27.56	H	-65.86	0.06	0.70	-65.22	-36.00	29.22
351.41	28.41	H	-70.96	0.25	5.63	-65.58	-36.00	29.58
433.06	27.00	H	-72.52	0.34	6.69	-66.17	-36.00	30.17
633.63	28.37	H	-70.88	0.52	7.24	-64.15	-54.00	10.15
727.08	28.84	H	-70.14	0.59	6.65	-64.08	-36.00	28.08
Other(30-1000)	--	H	--	--	--	--	-36.00/-54.00	--

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Transmitter Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
4804	52.21	V	-48.33	2.65	9.34	-41.64	-30.00	11.64
7206	47.34	V	-54.13	3.13	11.32	-45.94	-30.00	15.94
Other(1000-12750)	--	V	--	--	--	--	-30.00	--
4804	51.91	H	-47.75	2.65	9.34	-41.06	-30.00	11.06
7206	43.77	H	-56.85	3.13	11.32	-48.66	-30.00	18.66
Other(1000-12750)	--	H	--	--	--	--	-30.00	--

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

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(Worst Case: High channel, 1Mbps)

Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
94.26	32.76	V	-61.67	0.04	1.72	-59.99	-54.00	5.99
159.30	28.53	V	-66.54	0.06	1.10	-65.50	-36.00	29.50
353.57	31.36	V	-68.05	0.25	5.89	-62.40	-36.00	26.40
429.79	27.18	V	-72.26	0.34	6.92	-65.68	-36.00	29.68
628.61	29.82	V	-69.82	0.51	7.22	-63.11	-54.00	9.11
759.16	28.07	V	-70.41	0.61	6.55	-64.47	-36.00	28.47
Other(30-1000)	--	V	--	--	--	--	-36.00/-54.00	--
109.75	31.59	H	-62.93	0.04	1.28	-61.69	-54.00	7.69
154.28	26.73	H	-67.47	0.06	0.70	-66.83	-36.00	30.83
351.89	29.14	H	-69.03	0.25	5.63	-63.65	-36.00	27.65
431.68	27.62	H	-71.29	0.34	6.83	-64.80	-36.00	28.80
632.75	28.93	H	-71.88	0.52	7.26	-65.14	-54.00	11.14
729.37	27.42	H	-72.73	0.59	6.75	-66.57	-36.00	30.57
Other(30-1000)	--	H	--	--	--	--	-36.00/-54.00	--

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Transmitter Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
4960	52.11	V	-47.52	2.65	9.34	-40.83	-30.00	10.83
7440	46.79	V	-53.89	3.13	11.32	-45.70	-30.00	15.70
Other(1000-12750)	--	V	--	--	--	--	-30.00	--
4960	52.24	H	-47.13	2.65	9.34	-40.44	-30.00	10.44
7440	44.01	H	-57.51	3.13	11.32	-49.32	-30.00	19.32
Other(1000-12750)	--	H	--	--	--	--	-30.00	--

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Conclusion: PASS

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5.7. RECEIVER SPURIOUS EMISSIONS
ETSI EN300328 SUBCLAUSE 4.3.1.11

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.

Frequency Range	Maximum Power e.r.p(<=1GHz)/e.i.r.p(>1GHz)	Measurement Bandwidth
30MHz to 1000MHz	-57dBm	100kHz
1GHz to 12.75GHz	-47dBm	1MHz

Test Configuration

Same as 5.6.

TEST PROCEDURE

- 1) The emissions over the range 30 MHz to 1 000 MHz shall be identified.
- 2) Spectrum analyzer settings:
Resolution bandwidth: 100 kHz
Video bandwidth: 300 kHz
Detector mode: Peak
Sweep Points: $\geq 19\ 400$
Trace Mode: Max Hold
- 3) Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using RMS detector and compared to the limits.
- 4) The emissions over the range 1 GHz to 12,75 GHz shall be identified.
- 5) Resolution bandwidth: 1 MHz
Video bandwidth: 3 MHz
Detector mode: Peak
Trace Mode: Max Hold
Sweep Points: $\geq 23\ 500$
- 6) Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using RMS detector and compared to the limits.
- 7) For radiated method, the applicable measurement procedures as described in the EN 300 328 V2.2.2 annex C.2 and C.4 are used.

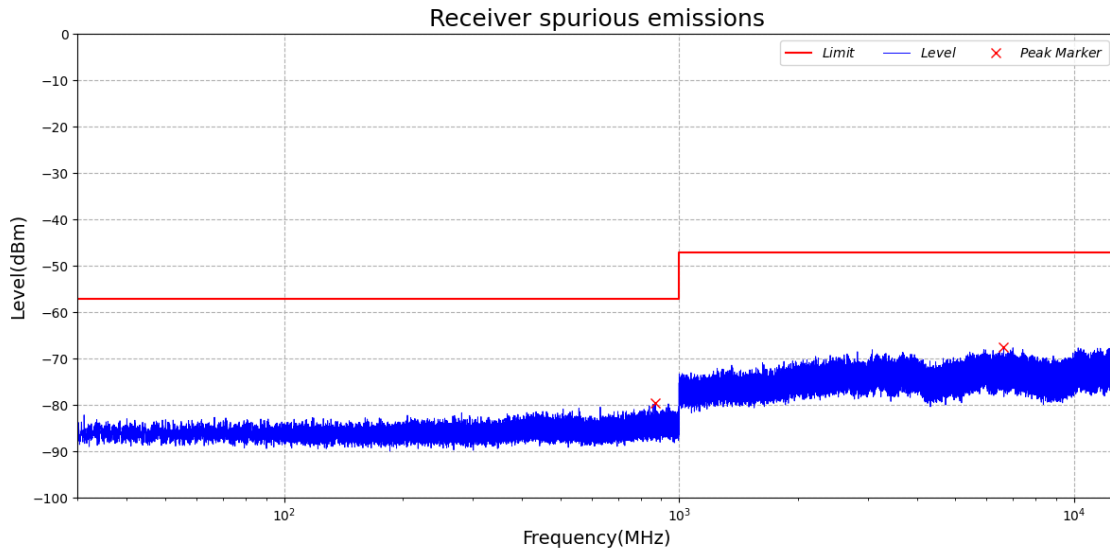
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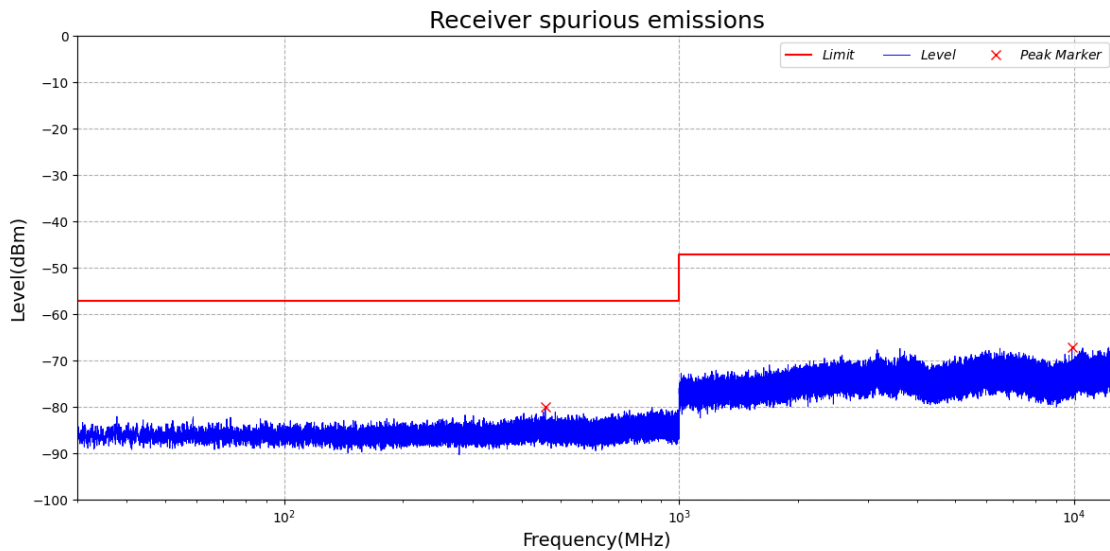
TEST RESULTS FOR CONDUCTED METHOD

Test Mode	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	2402	869.498	-78.639	-57.00	PASS
		6632.354	-67.516	-47.00	PASS
	2480	458.366	-79.962	-57.00	PASS
		9874.679	-67.012	-47.00	PASS

RECEIVER MODE (Worst Case: Low channel, 1Mbps)



(Worst Case: High channel, 1Mbps)



Note: 1. All the modes had been test but only the worst data record in the report.

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TEST RESULTS FOR RADIATED METHOD
(Worst Case: Low channel, 1Mbps)

Receiver Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
121.35	26.21	V	-68.56	0.04	0.70	-67.90	-57.00	10.90
160.45	29.33	V	-64.96	0.06	1.20	-63.82	-57.00	6.82
358.59	28.07	V	-70.47	0.25	6.54	-64.18	-57.00	7.18
531.59	26.22	V	-72.78	0.44	6.66	-66.56	-57.00	9.56
677.88	30.33	V	-69.35	0.55	6.52	-63.38	-57.00	6.38
834.75	30.74	V	-67.56	0.66	6.58	-61.65	-57.00	4.65
Other(30-1000)	--	V	--	--	--	--	-57.00	--
134.56	27.01	H	-65.30	0.05	0.02	-65.33	-57.00	8.33
163.41	28.18	H	-66.87	0.06	1.44	-65.49	-57.00	8.49
344.45	30.47	H	-67.32	0.24	5.62	-61.94	-57.00	4.94
541.74	27.05	H	-73.72	0.45	7.15	-67.02	-57.00	10.02
676.42	29.07	H	-69.22	0.55	6.56	-63.21	-57.00	6.21
831.46	28.32	H	-71.05	0.66	6.37	-65.34	-57.00	8.34
Other(30-1000)	--	H	--	--	--	--	-57.00	--

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Receiver Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
1540.09	32.22	V	-68.03	1.22	6.84	-62.41	-47.00	15.41
--	--	V	--	--	--	--	--	--
Other(1000-12750)	--	V	--	--	--	--	-47.00	--
1550.46	32.30	H	-66.54	1.19	6.67	-61.06	-47.00	14.06
--	--	H	--	--	--	--	--	--
Other(1000-12750)	--	H	--	--	--	--	-47.00	--

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

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(Worst Case: High channel, 1Mbps)

Receiver Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
126.38	27.40	V	-66.54	0.05	0.26	-66.33	-57.00	9.33
160.80	28.87	V	-65.14	0.06	1.20	-64.00	-57.00	7.00
355.44	28.54	V	-71.07	0.25	6.15	-65.17	-57.00	8.17
531.05	26.85	V	-71.97	0.44	6.66	-65.75	-57.00	8.75
673.61	31.08	V	-67.86	0.55	6.68	-61.73	-57.00	4.73
833.73	30.54	V	-68.29	0.66	6.51	-62.44	-57.00	5.44
Other(30-1000)	--	V	--	--	--	--	-57.00	--
139.77	27.60	H	-64.75	0.05	0.00	-64.80	-57.00	7.80
161.75	28.75	H	-66.13	0.06	1.28	-64.91	-57.00	7.91
342.65	29.19	H	-68.60	0.24	5.66	-63.18	-57.00	6.18
539.16	27.23	H	-72.51	0.45	7.14	-65.81	-57.00	8.81
675.78	28.64	H	-70.86	0.55	6.60	-64.81	-57.00	7.81
830.86	28.57	H	-71.08	0.66	6.30	-65.44	-57.00	8.44
Other(30-1000)	--	H	--	--	--	--	-57.00	--

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Receiver Spurious Emission above 1GHz (1GHz-12.75GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuV/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
1554.62	32.56	V	-67.44	1.22	6.84	-61.82	-47.00	14.82
--	--	V	--	--	--	--	--	--
Other(1000-12750)	--	V	--	--	--	--	-47.00	--
1546.28	33.40	H	-66.39	1.19	6.67	-60.91	-47.00	13.91
--	--	H	--	--	--	--	--	--
Other(1000-12750)	--	H	--	--	--	--	-47.00	--

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Conclusion: PASS

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5.8. RECEIVER BLOCKING

Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2 380	-34	CW
	2 504		
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 3)	2 300		
	2 330		
	2 360		
	2 524		
	2 584		
	2 674		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 26$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 20$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

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Receiver Blocking parameters for Receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380	-34	CW
	2 504		
	2 300		
	2 584		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Receiver Blocking parameters for Receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380	-34	CW
	2 504		
	2 300		
	2 584		

NOTE 1: OCBW is in Hz.

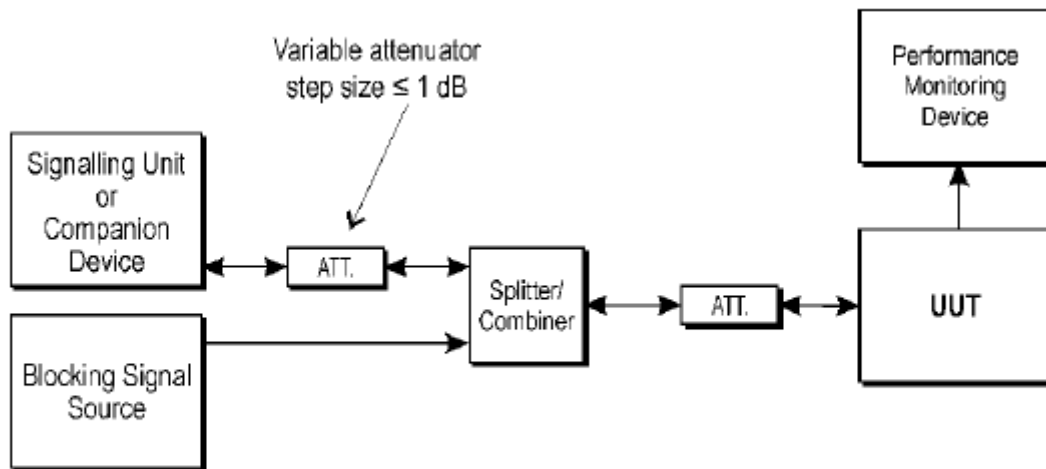
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

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TEST CONFIGURATION



Test Set-up for receiver blocking

TEST PROCEDURE

The simplified conducted measure procedures are as follows:

- 1) The UUT shall be set to hopping mode.
- 2) The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.
- 3) With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup. The level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report.
- 4) The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment. It shall be verified and recorded in the test report that the performance criteria is met.
- 5) Repeat step 4 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.

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TEST RESULT

Test Condition	Blocking Signal Frequency(MHz)	Blocking Signal Power(dBm)	Wanted signal mean power from companion device(dBm)	Performance PER	Limit PER	Result
GFSK Hopping Mode	2300	-32.00	-67.63	1.43%	10%	Pass
	2380	-32.00	-67.63	0.84%	10%	
	2504	-32.00	-67.63	2.63%	10%	
	2584	-32.00	-67.63	1.53%	10%	

Test Condition	Blocking Signal Frequency(MHz)	Blocking Signal Power(dBm)	Wanted signal mean power from companion device(dBm)	Performance PER	Limit PER	Result
π /4-DQPSK Hopping Mode	2300	-32.00	-66.21	1.18%	10%	Pass
	2380	-32.00	-66.21	1.16%	10%	
	2504	-32.00	-66.20	2.91%	10%	
	2584	-32.00	-66.20	1.67%	10%	

Note: The levels of the blocking signal and wanted signal have to be corrected for the (in-band) antenna assembly gain.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC12440210702AP01

----END OF REPORT----

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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Health Test Report

Report No.: AGC12440210702EH02

PRODUCT DESIGNATION : WIRELESS MOON SHAPED SPEAKER
BRAND NAME : N/A
MODEL NAME : M09745
APPLICANT : Mid Ocean Brands B.V.
DATE OF ISSUE : Jul. 28, 2021
STANDARD(S) : EN 62479:2010
: EN 50663:2017
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 28, 2021	Valid	Initial release

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1. TEST REPORT CERTIFICATION

Applicant	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Manufacturer	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Factory	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Product Designation	WIRELESS MOON SHAPED SPEAKER
Brand Name	N/A
Test Model	MO9745
Date of test	Jul. 22, 2021 to Jul. 28, 2021
Test Result	Pass

We, Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the European Standard EN 62479 & EN 50663. The results of testing in this report apply to the product/system which was tested only. The test results of this report relate only to the tested sample identified in this report.

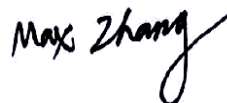
Prepared By



Eddy Liu
Project Engineer

Jul. 28, 2021

Reviewed By



Max Zhang
Reviewer

Jul. 28, 2021

Approved By



Forrest Lei
Authorized Officer

Jul. 28, 2021

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



2. GENERAL INFORMATION

The following data is based on the information by the applicant.

Operating Frequency	2.402GHz to 2.480GHz
Bluetooth Version	V5.0
Modulation	BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> π /4-DQPSK, <input type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
Hardware Version	V1.1
Software Version	5.0
Antenna designation	PCB Antenna
Number of channels	79 for BR/EDR
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter

- Note:** 1. The EUT provides Bluetooth wireless interface operating at 2.4G ISM band (2402MHz-2480MHz).
2. The EUT doesn't support BLE.

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3. TEST RESULT

The maximum output power of Bluetooth is **-3.18dBm (1.36mW which is less than 20mW)**. Please refer to ETSI EN 300 328 (V2.2.2) Test report (AGC12440210702EE04) for the result of Maximum Transmit Power, which deemed to comply with the basic restrictions without testing.

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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