

Smart Nora Inc.

TEST REPORT

SCOPE OF WORK EMC TESTING–Type SN2

REPORT NUMBER 241104268GZU-001

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Intertek Report No:		241104268GZU-001
FCC ID:		2AZ6Z-001SN2

Test standards

47 CFR PART 15 Subpart C: 2023 section 15.247

Sample Description

Product	:	Snoring Solution (BASE)
Model No.	:	Type SN2
Electrical Rating	:	input: DC 5V/1A
Serial No.	:	Not Labeled
Date Received	:	04 November 2024
Date Test	:	25 December 2024-30 December 2024
Conducted		

Prepared and Checked By

Ace Yao Engineer Approved By:

Lhn

Dean Liu Sr. Project Engineer

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

 Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

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TEST RESULT SUMMARY 1.0

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
6 dB Bandwidth (DTS bandwidth)	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10: Clause 11.8	PASS
Maximum Peak Conducted Output Power	FCC PART 15 C section 15.247(b)(3)	ANSI C63.10: Clause 11.9.1.2	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10.2	PASS
Out of Band Conducted Emissions	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.11	PASS
Radiated Emissions	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.11, 11.12.1, 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) & 15.205	ANSI C63.10: Clause 11.11 and 11.13	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS

Remark:

N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radio Frequency.

ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report.



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2.0 General Description

2.1 **Product Description**

Operating Frequency:	2402 MHz – 2480MHz
Type of Modulation:	GFSK
Number of Channels:	40 Channels
Channel Separation:	2 MHz
Antenna Type:	PCB antenna
Antenna Gain:	0.69 dBi
Speciality:	Snoring Solution (BASE) with BLE function to transmit and receive signal
Power Supply:	DC5V from Adaptor

EUT modulation and data packet during test:

The EUT has been tested on the Modulation of GFSK with 1 Mbps data rate.

EUT channels and frequencies list:

Test frequencies are lowest channel 0: 2402 MHz, middle channel 19: 2440 MHz and highest channel 39: 2480 MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/



2.2 Related Submittal(s) Grants

This is an application for certification of Snoring Solution (BASE) which has BLE function.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China Except Conducted Emissions was performed at: Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. It was powered by AC 120V/60Hz supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.



All readings are extrapolated back to the equivalent three meters reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement		
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to		
9 KHZ to below 10 GHZ	40 GHz, whichever is lower		
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to		
30 GHz	100 GHz, whichever is lower		
	5th harmonic of highest fundamental frequency or to		
At or above 30 GHz	200 GHz, whichever is lower, unless otherwise		
	specified		

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device	Number of	Location in frequency
operates	frequencies	range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

Description	Manufacturer	Model No.	SN/Version	Supplied by
For fixing frequency		nRF_DTM	Version:3434	client

3.3 Special Accessories

No special accessories used.



3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty	
	20 dB Bandwidth		
1	6dB Bandwidth	2.3%	
	99% Bandwidth		
2	Carrier Frequencies Separated	2.3%	
3	Dwell Time	1.2%	
4	Maximum Peak Conducted Output Power	1.5dB	
5	Peak Power Spectral Density	1.5dB	
6	Out of Band Conducted Emissions	1.5dB	
7	Band edges measurement	1.5dB	
		4.24 dB (9KHz-30MHz)	
	Radiated Emissions	4.7 dB (25 MHz-1 GHz)	
8		4.8 dB (1 GHz-18 GHz)	
		5.21dB (18GZH-26GHz)	
9	Conducted Emissions at Mains Terminals	2.58dB	
10	Temperature	0.5 °C	
11	Humidity	0.4 %	
12	Time	1.2%	

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001. The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

3.5 Equipment Modification

Any modifications installed previous to testing by Smart Nora Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.



3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek

Support equipment

Description	Model No.	Rating	Supplied by
NoteBook	Latitude 5420	100-240VAC,50/60Hz	Intertek
Switching adapter	GQ07-050100-DX	Input:100-240V~50/60Hz Output:5V/1A, 5W	client
air cushion			client
Snoring Solution (PEBBLE)	Type SN2	input: DC 5V/1A	client

Remark:

After the frequency was fixed, Notebook and Fix board were removed out of the Chamber before test.



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4.0 Measurement Results

4.1 Antenna Requirement

Standard requirement:

15.203 requirement:

For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

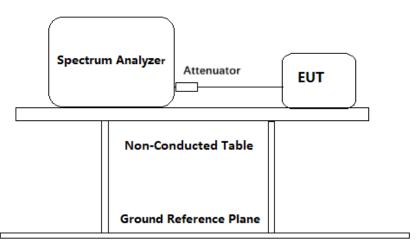
The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 0.69 dBi.



4.2 6 dB Bandwidth (DTS bandwidth)

Test Requirement:	FCC Part 15 C section 15.247 (a)(2)Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725- 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10: Clause 11.8
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
- 2. Set the spectrum analyzer:
 - a) Set RBW = 100 kHz
 - b) Set the VBW \geq [3 × RBW]
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple
 - f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
 h) Span=2*BW~5*BW

3. Repeat until all the test status is investigated.



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4. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Channel No.	Frequency (MHz)	Measured 6dB bandwidth (kHz)	Limit (kHz)	Result
0	2402	671.5		Pass
19	2440	686.0	≥500	Pass
39	2480	680.2		Pass

Test result: The unit does meet the FCC requirements.

Result plot as follows:

Lowest Channel(2.402 GHz):

Spectru	m	Spectrum 2	I Spectr	um 3 🛛 🤇	× Spectru	m 4 🛛 🗶	
Ref Lev	el 11.00 d	Bm Offset 11.0	00 dB 🔵 RBW	100 kHz	•		, , , , , , , , , , , , , , , , , , , ,
🗕 Att	10	dB SWT 18	8.9 µs 👄 VBW	300 kHz	Mode Auto FF	Т	
Controlled	by EMC32	🔵 1Pk Max					
					M1[1]		-18.58 dBm
0 dBm							2.40201450 GHz
U aBm—					ndB		6.00 dB
-10 dBm—					Bw		671.50000000 kHz
-10 ubiii—				1/11	Q factor	1	3577.1
-20 dBm—			T			0	
-20 0011			×	~	~ ~	2	
-30 dBm—						<u> </u>	
00 00.00							
-40 dBm—						_	
10 0.011							
50 dBm-							
	_						
-60 dBm—							
-70 dBm—							
-80 dBm—							
CF 2.402	CF 2.402 GHz 691 pts Span 2.0 MHz						
Marker							
Type R	ef Trc	X-value	Y-va	alue	Function	Fund	tion Result
M1	1	2.4020145	GHz -18	.58 dBm	ndB down		671.5 kHz
T1	1	2.4016643		.57 dBm	ndB		6.00 dB
T2	1	2.4023357	GHz -24	.54 dBm	Q factor		3577.1



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Middle Channel(2.440 GHz):

Spectr	um	Sp	ectrum 2	×	Spectr	um 3	X	Spectr	um 4	×		
	vel 1	L1.00 dBm				100 kHz						
Att		10 dB		18.9 µs	VBW	300 kHz	Mode	Auto F	FT			
Controlle	d by E	ЕМС32 🔵 1	LPk Max									
							N	1[1]				17.15 dBm
0 dBm—											2.440	00870 GHz
о ивпі—								dB				6.00 dB
-10 dBm							_	w .			686.0000	000000 kHz
-10 ubiii						M1	Q	factor	1		1	3557.1
-20 dBm				T1 ~			~		T2			
-20 ubiii				P			~		Y			
-30 dBm									~	~		
-30 ubm												
-40 dBm												
-40 0011												
-50 dBm	_											\sim
-30 00111												
-60 dBm												
-00 00111												
-70 dBm												
, o abiii												
-80 dBm												
00 0011												
05.0.44						<u> </u>					0	- 0.0 MU-
CF 2.44	GHZ					691 pt	.>				spa	n 2.0 MHz
Marker	1	- 1							1			1
	Ref	Trc	X-value			alue	Fund			Fund	ction Result	
M1 T1		1	2.44000			7.15 dBm 3.16 dBm	ndb	down ndB				686.0 kHz 6.00 dB
T2		1	2.43965			3.16 dBm 3.30 dBm	0	factor				3557.1
		1	2,44034		-23		<u> </u>	ractor				3557.1

Highest Channel(2.480 GHz):

Spectrum	Spe	ectrum 2 🛛 🗷	Spectrum 3	Spectru	um 4 🛛 🕱	
	11.00 dBm		B 👄 RBW 100 kHz			
Att	10 dB		s 👄 VBW 300 kHz	Mode Auto F	FT	
Controlled by	EMC32 🔵 1	.Pk Max				
				M1[1]		-15.39 dBm
0 dBm						2.48001450 GHz
0 ubiii				ndB		6.00 dB
-10 dBm				Bw		680.20000000 kHz
-10 UBIII			11	Q factor	1	3646.1
-20 dBm		T1		\sim	T2	
-20 uBili		e al				
-30 dBm						
-30 ubiii						
-40 dBm						
-40 ubiii						
-50 dBm	\sim					
-30 ubiii						
-60 dBm						
-00 ubiii						
-70 dBm						
-70 ubiii						
-80 dBm						
-ou ubiii						
	GF 2.48 GHz 691 pts Span 2.0 MHz					
Marker]
Type Ref		X-value	Y-value	Function	Fun	ction Result
M1	1	2.4800145 GHz	-15.39 dBm	ndB down		680.2 kHz
T1	1	2.4796614 GHz	-21.46 dBm	ndB		6.00 dB
T2	1	2.4803415 GHz	-21.20 dBm	Q factor		3646.1

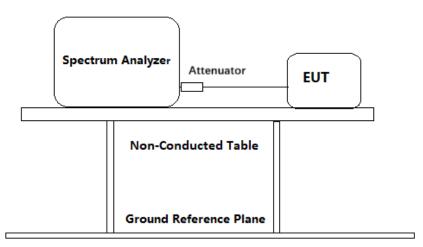


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4.3 Maximum Peak Conducted Output Power

Test Requirement:	FCC Part 15 C section 15.247 (b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Method:	ANSI C63.10: Clause 11.9.1.1(RBW \geqslant DTS bandwidth)
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
- 2. Set the spectrum analyzer:
 - a) Set the RBW = 3 MHz (RBW \geq DTS bandwidth).
 - b) Set the VBW \geq [3 × RBW].
 - c) Set the span \geq 10 MHz[3 × RBW].
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use peak marker function to determine the peak amplitude level.
- 3. Repeat until all the test status is investigated.
- 4. Report the worst case.



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Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Measured channel Power (dBm)	Limit	Result
0	2402	-18.43	1W	Pass
19	2440	-17.01	(30 dBm)	Pass
39	2480	-15.26	(50 0611)	Pass

Remark: Level = Read Level + Cable Loss

Result plot as follows:

Lowest channel (2.402 GHz):

Spectrum	Spe	ectrum 2	× Sp	bectrum 3	x s	Spectrum 4	4 🗶		
Ref Level 6				BW 3 MHz					
Att Controlled by E	10 dB	SWT	I ms 🔲 V	'BW 10 MHz	Mode A	uto Sweep			
0 dBm					м	1[1]			18.43 dBm 22460 GHz
-10 dBm					M1				
-20 dBm									
-30 dBm							~		
-40 dBm									and the second
-60 dBm									
-70 dBm									
-80 dBm									
-90 dBm									
CF 2.402 GHz	z			691	pts			Span	10.0 MHz



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Middle Channel (2.440 GHz):

Spectrum	Spectrum 2 🛛 🗵	Spectrum 3	Spectrum 4	X A
Ref Level 6.00		RBW 3 MHz		
		VBW 10 MHz	Mode Auto Sweep	
Controlled by EMC3	32 😑 1 Pk Max			
0 dBm			M1[1]	-17.01 dBm 2.4397970 GHz
-10 dBm				
		M1		
-20 dBm				<hr/>
-30 dBm				
-40.d8m				
-50 dBm				
-60 dBm				
-70 dBm				
-80 dBm				
-90 dBm				
CF 2.44 GHz		691 p	ts	Span 10.0 MHz

Highest Channel (2.480 GHz):

Spectrum	Spectrum 2 🛛 🗴	Spectrum 3 🛛 🗴 Spe	ectrum 4 🗴
RefLevel 6.00 dB		 RBW 3 MHz VBW 10 MHz Mode Auto 	- Culoan
Controlled by EMC32		WOULD WHILE MOULD AUTO	n aweeh
0 dBm		M1[1	L] -15.26 dBm 2.4802030 GHz
-10 dBm		M1	
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
-70 aBm			
-90 dBm			
CF 2.48 GHz		691 pts	Span 10.0 MHz

Test result: The unit does meet the FCC requirements.

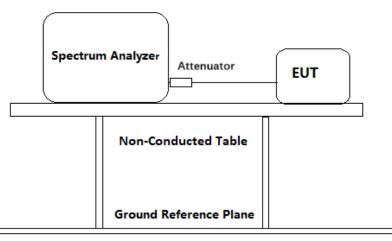


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4.4 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to
	determine the power spectral density.
Test Method:	ANSI C63.10: Clause 11.10.2
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
- 2. Set the spectrum analyzer:
 - a) Set analyzer center frequency to DTS channel center frequency.
 - b) Set the span= 1.5 × DTS bandwidth.
 - c) Set the RBW to 3 kHz \leqslant RBW \leqslant 100 kHz.
 - d) Set the VBW \geq [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j) If measured value exceeds requirement, then reduce RBW (but no less than 3



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kHz) and repeat.

- 3. Measure the Power Spectral Density of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worst case.

Used Test Equipment List

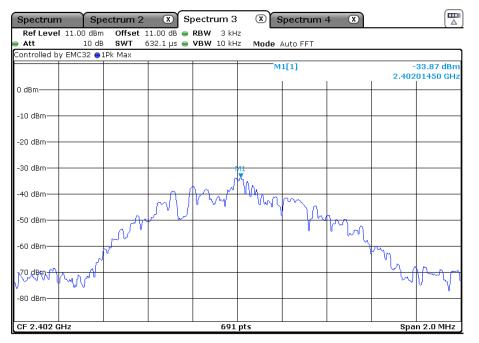
Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Measured Peak Power Spectral Density (dBm/3 kHz)	Limit	Result
0	2402	-33.87		Pass
19	2440	-31.09	8 dBm/3kHz	Pass
39	2480	-27.99		Pass

Test result: Level = Read Level + Cable Loss. Result plot as follows:

Lowest channel (2.402 GHz):



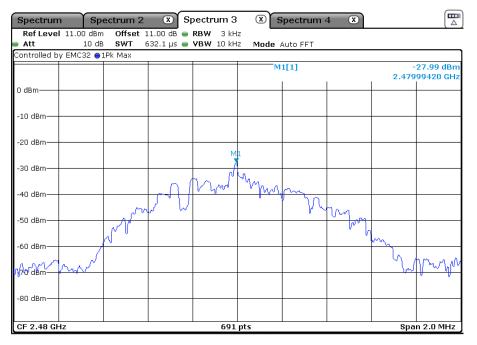


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Middle Channel (2.440 GHz):

Spectrum	Spe	ectrum 2	x s	pectrum 3	× s	pectrum -	4 X		
Ref Level 🗄				RBW 3 kH					
Att Att	10 dB		532.1 µs 😑	VBW 10 kH	z Mode /	Auto FFT			
Controlled by I	EMC32 🔵 1	.Pk Max							
					М	1[1]			31.09 dBm 99420 GHz
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm				м 7	1 h				
-40 dBm			mAf	Jon and	Murry	m			
-50 dBm		m				V~	m		
-60 dBm								Ang	
470-087m-10-0	when							hul	man
-80 dBm	τν.								v U
CF 2.44 GHz				691	pts			Spa	n 2.0 MHz

Highest Channel (2.480 GHz):





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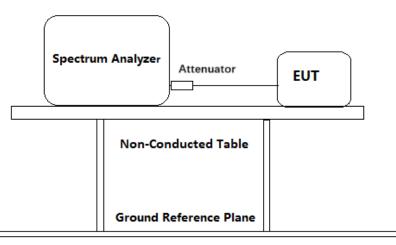
4.5 Out of Band Conducted Emissions

Test Requirement. FCC Part 15 C section 15.24	Test Requirement:	FCC Part 15 C section 15.247
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(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

- Test Method: ANSI C63.10: Clause 11.11
- Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
- 2. Establish a reference level by using the following procedure:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to \geq 1.5 imes DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW \geq [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.



TEST REPORT

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

3. Emission level measurement

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.
- 4. Measure the Conducted unwanted Emissions of the test frequency with special test status.
- 5. Repeat until all the test status is investigated.
- 6. Report the worst case.

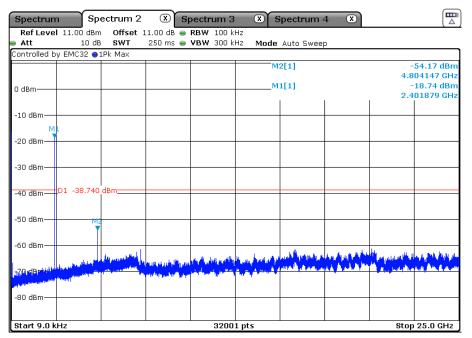
Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Result plot as follows:

Lowest channel (2.402 GHz):

9 kHz to 25 GHz:

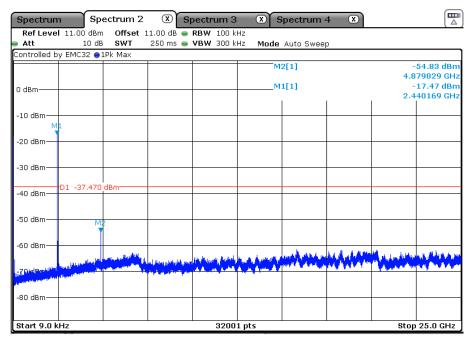




TEST REPORT

Middle Channel (2.440 GHz):

9 kHz to 25 GHz:



Highest Channel (2.480 GHz):

9 kHz to 25 GHz:

Ref Level 11.00 dB Offset 11.00 dB RBW 100 kHz Att 10 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Controlled by EMC32 IPk Max M2[1] -49.16 dBm 0 dBm M2[1] -49.16 dBm 0 dBm M1[1] -15.64 dBm -10 dBm M1 -15.64 dBm -20 dBm M1 -10 -10 -30 dBm M2 -10 M2 -10 -30 dBm M2 -10 M2 -10 -30 dBm M2 -10 M2 -10 -30 dBm M2 -10 -10 -10 -30 dBm -30 M2 -30 <	Spectrum	n Spe	ectrum 2	🗴 sı	bectrum 3	× 5	pectrum -	4 🗶		
Controlled by EMC32 • 1Pk Max M2[1] -49.16 dBm 0 dBm M1[1] -15.64 dBm 2.480009 GHz -10 dBm M1 2.480009 GHz -15.64 dBm -20 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -30 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -20 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -30 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -20 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -20 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -20 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -10 -35.640 dBm -40 dBm -10 -35.640 dBm -10 -35.							Auto Culoo	_		
M2[1] -49.16 dBm 0 dBm M1[1] -15.64 dBm -10 dBm M1 2.480009 GHz -10 dBm M1 2.480009 GHz -20 dBm -30 dBm -40 dBm -30 dBm -40 dBm -40 dBm -20 dBm -40 dBm -40 dBm -20 dBm -40 dBm -40 dBm				230 1113	*B ## 300 K	nz Moue	Auto Swee	J		
-10 dBm M1 -20 dBm	0 dBm								5.7	61087 GHz 15.64 dBm
-30 dBm -35.640 dBm Image: state st	-10 dBm	1								
D1 -35.640 dBm Image: Constraint of the second seco	-20 dBm—									
-50 dBm		D1 -35.640	dBm							
-60 dBm -7.0 dBm -7.0 dBm			M2							
		and a second second								
	and a second products on the	Stead of the second		Lan an air air an air an air						
Start 9.0 kHz 32001 pts Stop 25.0 GHz	Start 9.0 k	Hz			3200	1 nts			Stor	25.0.CHz



TEST REPORT

4.6 Radiated Emissions

Test Requirement:	FCC Part 15 C section 15.247
	section 15.247: (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB,Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).
Test Method:	ANSI C63.10: Clause11.11, 11.12.1, 6.4, 6.5 and 6.6
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	40.0 dBμV/m between 30MHz & 88MHz;
	43.5 dBμV/m between 88MHz & 216MHz;
	46.0 dBμV/m between 216MHz & 960MHz;
Detector:	54.0 dBμV/m above 960MHz. For Peak and Quasi-Peak value:
	$\label{eq:RBW} = $$$ 1 \ \text{MHz for } f \ge 1 \ \text{GHz},$$$$ 200 \ \text{Hz for } 9 \ \text{kHz to } 150 \ \text{kHz}$$$$$ 9 \ \text{kHz for } 150 \ \text{kHz to } 30 \ \text{MHz}$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
	For AV value: RBW = 1 MHz for f \geq 1 GHz, 100 kHz for f $<$ 1 GHz VBW=10 Hz



TEST REPORT

	Sweep = auto Trace = max hold
Field Strength Calculation: Where:	The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below: FS = RA + AF + CF - AG + PD + AV FS = RA + Correct Factor + AV $FS = Field Strength in dB\muV/m$ $RA = Receiver Amplitude (including preamplifier) in dB\muV$ AF = Antenna Factor in dB CF = Cable Attenuation Factor in dB AG = Amplifier Gain in dB PD = Pulse Desensitization in dB AV = Average Factor in -dB
	Correct Factor = AF + CF – AG + PD
	In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows: FS = RA + AF + CF - AG + PD + AV Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBµV/m. RA = 62.0 dBµV AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB PD = 0 dB AV = -10 dB Correct Factor = 7.4 + 1.6 - 29.0 + 0 = -20 dB FS = 62 + (-20) + (-10) = 32 dBµV/m

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

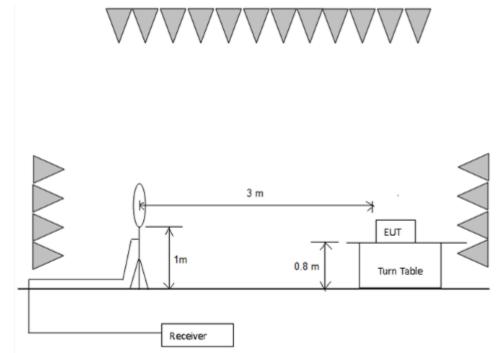


TEST REPORT

MHz	MHz MHz		GHz	
$\begin{array}{c} 0.090 - 0.110 \\ 10.495 - 0.505 \\ 2.1735 - 2.1905 \\ 4.125 - 4.128 \\ 4.17725 - 4.17775 \\ 4.20725 - 4.20775 \\ 6.215 - 6.218 \\ 6.26775 - 6.26825 \\ 6.31175 - 6.31225 \\ 8.291 - 8.294 \\ 8.362 - 8.366 \\ 8.37625 - 8.38675 \\ 8.41425 - 8.41475 \\ 12.29 - 12.293 \\ 12.51975 - 12.52025 \\ 12.57675 - 12.57725 \\ 13.36 - 13.41 \end{array}$	$\begin{array}{c} 16.42 - 16.423 \\ 16.69475 - 16.69525 \\ 16.80425 - 16.80475 \\ 25.5 - 25.67 \\ 37.5 - 38.25 \\ 73 - 74.6 \\ 74.8 - 75.2 \\ 108 - 121.94 \\ 123 - 138 \\ 149.9 - 150.05 \\ 156.52475 - \\ 156.52525 \\ 156.7 - 156.9 \\ 162.0125 - 167.17 \\ 167.72 - 173.2 \\ 240 - 285 \\ 322 - 335.4 \end{array}$	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	$\begin{array}{c} 4.5 - 5.15\\ 5.35 - 5.46\\ 7.25 - 7.75\\ 8.025 - 8.5\\ 9.0 - 9.2\\ 9.3 - 9.5\\ 10.6 - 12.7\\ 13.25 - 13.4\\ 14.47 - 14.5\\ 15.35 - 16.2\\ 17.7 - 21.4\\ 22.01 - 23.12\\ 23.6 - 24.0\\ 31.2 - 31.8\\ 36.43 - 36.5\end{array}$	

Test Configuration:

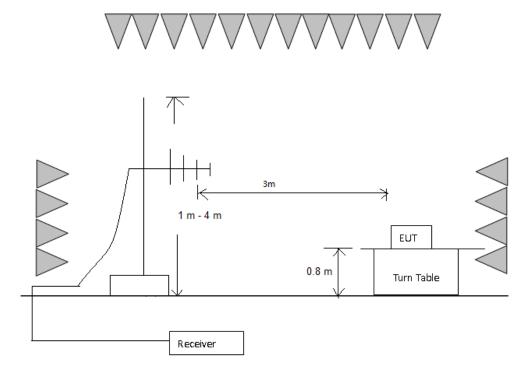
1) 9 kHz to 30 MHz emissions:



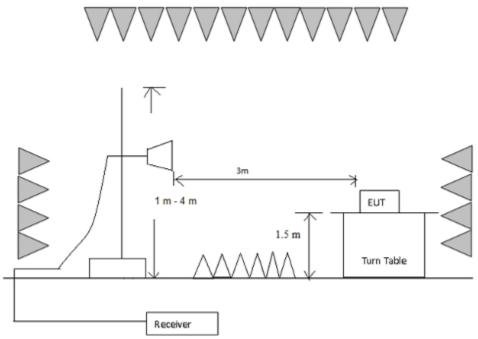
2) 30 MHz to 1 GHz emissions:



TEST REPORT



3) 1 GHz to 40 GHz emissions:



Test Procedure:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators,



TEST REPORT

measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

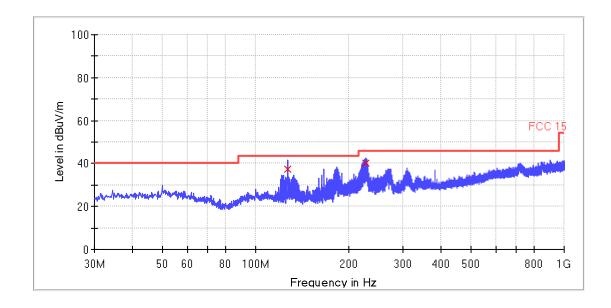
Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Pre-scan all modes, worst case as below

1Mbps data rate Test at Channel 1 (2.402 GHz) in transmitting status Vertical:



QP

x ,									
Frequenc (MHz)	y QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
127.0000	00 37.2	1000.0	120.000	100.0	v	359.0	15.9	6.3	43.5
227.8000	00 40.2	1000.0	120.000	100.0	V	1.0	19.7	5.8	46.0

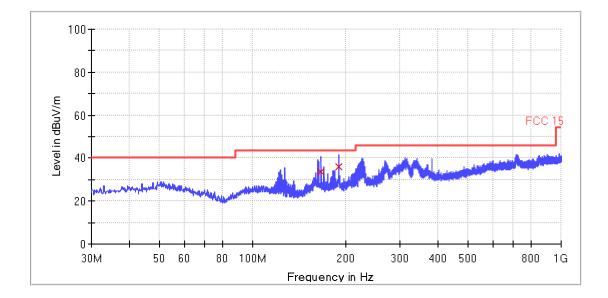


TEST REPORT

Remark:

- 1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
- 2. Quasi Peak (dBµV/m) = Corr. (dB) + Read Level (dBµV)
- 3. Margin (dB) = Limit QPK (dBµV/m) –Quasi Peak (dBµV/m)

Horizontal:



QP

Frequency (MHz)	Quasi Peak (dBuV/ m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
166.680000	33.6	120.000	Н	16.0	10.0	43.5
190.520000	36.0	120.000	Н	17.8	7.5	43.5

Remark:

- 1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
- 2. Quasi Peak (dB μ V/m) = Corr. (dB) + Read Level (dB μ V)
- 3. Margin (dB) = Limit QPK (dBµV/m) –Quasi Peak (dBµV/m)



1~25 GHz Radiated Emissions.

Test at Channel 0 (2.402 GHz) in transmitting status

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4803.8	59.0	-1.1	57.9	74	Н
7205.0	52.7	2.3	55.0	74	V

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4803.8	44.3	-1.1	43.2	54	Н
7205.0	37.8	2.3	40.1	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Test at Channel 19 (2.440 GHz) in transmitting status

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4880.3	62.1	-1.0	61.1	74	Н
7319.8	53.5	2.4	55.9	74	V

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4880.3	48.6	-1.0	47.6	54	Н
7319.8	39.5	2.4	41.9	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded



Test at Channel 39 (2.480 GHz) in transmitting status

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4958.9	60.3	-0.9	59.4	74	Н
4958.9	53.5	-0.9	52.6	74	V

AV Measurement:

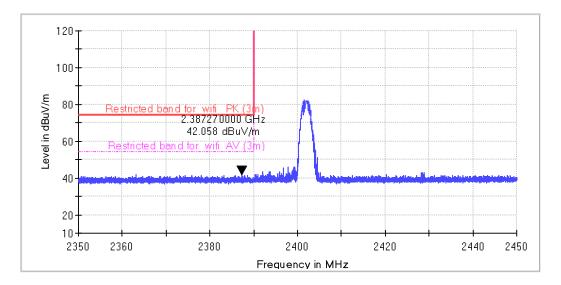
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBµV/m)	(dBµV/m)	
4958.9	47.7	-0.9	46.8	54	Н
4958.9	/	-0.9	/	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Restricted Bands Measurement

Test at Channel 0 (2.402 GHz) in transmitting status

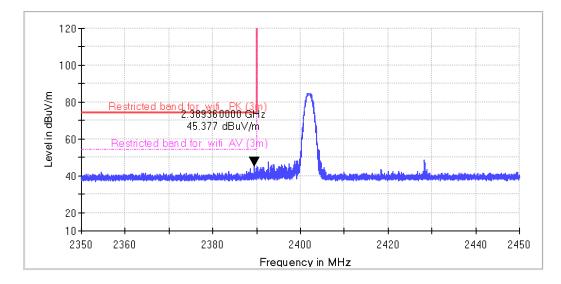
Horizontal





TEST REPORT

Vertical



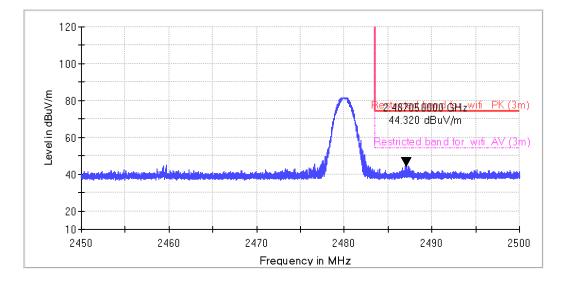
PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2387.3	50.3	-8.2	42.1	74	Н
2389.4	53.6	-8.2	45.4	74	V

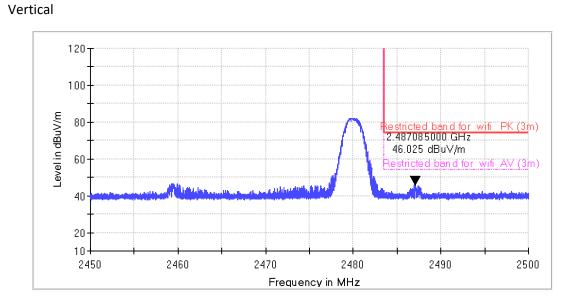
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Test at Channel 39 (2.480 GHz) in transmitting status

Horizontal







PK Measurement:

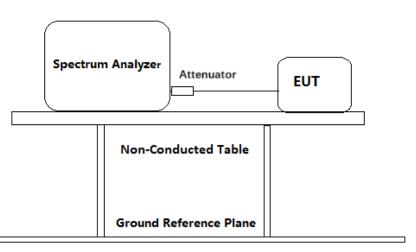
Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization	
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)		
2487.1	52.1	-7.8	44.3	74	Н	
2487.1	53.8	-7.8	46.0	74	V	

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.



4.7 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247
	(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10: Clause 11.11 and 11.13
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	For Band Edges Emission in Radiated mode, Please refer to clause 4.7



Test Procedure:

Remove the antenna from the EUT and then connect a low RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer.

 a) Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).
 b) Set the center frequency and span to encompass frequency range to be measured.
 c) RBW = 100 kHz.
 d) VBW ≥ [3 × RBW].
 e) Detector = peak.
 f) Sweep time = auto.
 g) Trace mode = max hold.



TEST REPORT

- h) Allow sweep to continue until the trace stabilizes (required measurement time may increase for low-duty-cycle applications).
- i) For radiated Band-edge emissions within a restricted band and within 2 MHz of an authorized band edge, integration method is considered.
- 2. Repeat until all the test status is investigated.
- 3. Report the worst case.

Used Test Equipment List:

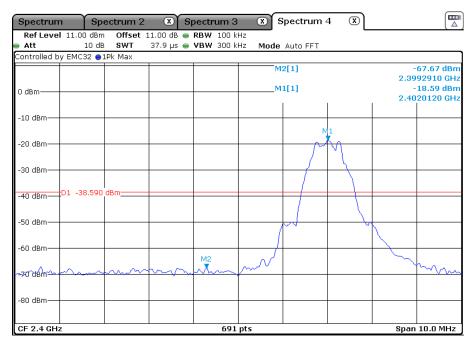
3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

Test result with plots as follows: For conduct mode:

The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.



Channel 0: 2.402 GHz



TEST REPORT

Channel 39: 2.480 GHz

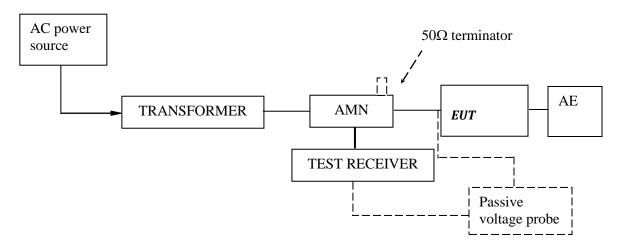
Spectrum		ectrum 2		bectrum 3		pectrum 4	4 X		
	11.00 dBm			RBW 100 k					
Att	10 dB		37.9 hz 😑	VBW 300 k	Hz Mode	Auto FFT			
Controlled b	у ЕМСЗ2 🌖 I	ек мах							
					M	1[1]			15.40 dBm 00120 GHz
					м	2[1]			66.91 dBm
0 dBm						-[-]			53813 GHz
								1	
-10 dBm	M1								
	<u></u> .								
-20 dBm	PY								
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-30 dBm	r I	<u> </u>							
1 (N_							
	D1 -35.400	dBm							
-40 dBm									
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									
-50 dBm		~~							
$\mathbf{k}$									
-60 dBm									
×.			$1 \sim 1 \sim$			M2			
-70 dBm			~	Why	mm	hon	non	an Ara	
-70 abii					~ .				
-80 dBm									
CF 2.4835	GHz			691	pts	1	1	Span	10.0 MHz



## **TEST REPORT**

#### 4.8 Conducted Emission Test

Test Configuration:



Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a  $50\Omega$  linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.



## **TEST REPORT**

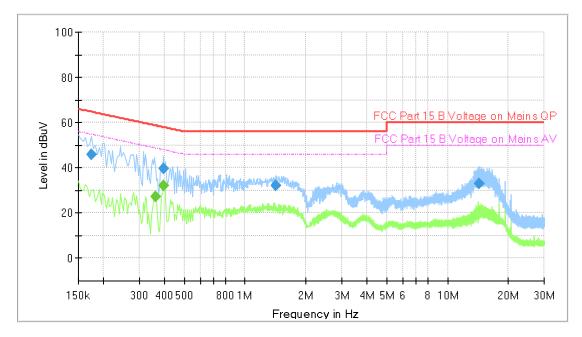
Test Data and Curve

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting

#### Full Spectrum



## Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.174000	45.82		64.77	18.95	1000.0	9.000	L1	ON	9.6
0.362000		27.10	48.68	21.58	1000.0	9.000	L1	ON	9.6
0.394000		32.17	47.98	15.81	1000.0	9.000	L1	ON	9.6
0.394000	39.88		57.98	18.10	1000.0	9.000	L1	ON	9.6
1.422000	31.95		56.00	24.05	1000.0	9.000	L1	ON	9.6
14.318000	32.84		60.00	27.16	1000.0	9.000	L1	ON	9.9

Remark:

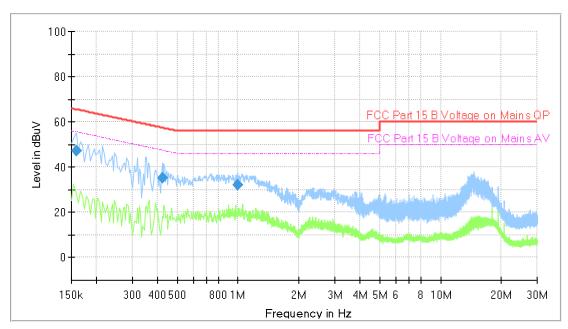
- 1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Level  $(dB\mu V) = Corr. (dB) + Read Level (dB\mu V)$
- 3. Margin (dB) = Limit (dB $\mu$ V) Level (dB $\mu$ V)



## **TEST REPORT**

Tested Wire: Neutral

Operation Mode: transmitting



Full Spectrum

## Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.158000	47.37		65.57	18.20	1000.0	9.000	Ν	ON	9.5
0.422000	35.39		57.41	22.02	1000.0	9.000	Ν	ON	9.5
0.990000	32.21		56.00	23.79	1000.0	9.000	Ν	ON	9.5

Remark:

- 1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Level (dB $\mu$ V) = Corr. (dB) + Read Level (dB $\mu$ V)
- 3. Margin (dB) = Limit (dB $\mu$ V) Level (dB $\mu$ V)



## 5.0 Test Equipment List

#### Radiated Emission/Radio

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date	Calibration
Equipment No.	Equipment	Model	Manufacturer	(YYYY-MM-DD)	Interval
EM030-04	3m Semi-Anechoic Chamber	$9 \times 6 \times 6 \text{ m}^3$	ETS•LINDGRE N	2025-04-09	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2025-11-10	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2025-11-10	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2025-07-07	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2025-12-08	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2025-07-02	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2025-04-22	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2025-04-22	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2025-04-09	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2025-04-09	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2025-04-25	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2025-03-17	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2025-05-15	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2026-01-05	1Y
EM046-05	Power meter	NPR6A	R&S	2025-04-22	1Y
EM046-06	Power meter	NPR6A	R&S	2025-05-09	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A
EM045-01-10	10dB Attenuator	N/A	R&S	2025-12-24	1Y

Conducted Disturbance-Mains Terminal(2)

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date	Calibration
Equipment No.	Equipment	Widdei		(DD-MM-YYYY)	Interval
EM031-04	EMI receiver	ESR3	R&S	05/01/2026	1Y
EM006-06	LISN	ENV216	R&S	01/09/2025	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	20/10/2025	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	05/01/2026	1Y