FCC TEST REPORT

FCC ID: 2AURTDL-1902A

On Behalf of

Beijing Dale Technology Co., Ltd.

AeroBand

Model No.: DL-1902A

Prepared for	:	Beijing Dale Technology Co., Ltd.
Address	:	722, Building 1, NO.2 XisanhuanBei Road, Haidian District, Beijing, China

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

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TEST REPORT DECLARATION

Applicant	:	Beijing Dale Technology Co., Ltd.
Address	:	722, Building 1, NO.2 XisanhuanBei Road, Haidian District, Beijing, China
Manufacturer	:	SHENZHEN JUCHI ELECTRONICS CO.,LTD
Address	:	4/F, No.1, Citongchang Factory Building, No. 35, Kengwei Road, Shangwu Community, Shiyan Street, Bao'an District, Shenzhen, China
EUT Description	:	AeroBand
		(A) Model No. : DL-1902A
		(B) Trademark : AeroBand

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10-2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....…..:	Ella Liang Project Engineer	Ella Liang
Approved by (name + signature)…....:	Simple Guan Project Manager	
Date of issue…… ……...:	October 12, 2019	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	October 12, 2019	Initial released Issue	Simple Guan

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Test Requirement	Standards Paragraph	Result
Conducted Emission	FCC PART 15	15.207	P
6dB Bandwidth	FCC PART 15	15.247 (a)(2)	P
Output Power	FCC PART 15	15.247 (b)(3)	P
Radiated Spurious Emission	FCC PART 15	15.247 (c)	P
Conducted Spurious & Band Edge Emission	FCC PART 15	15.247 (d)	P
Power Spectral Density	FCC PART 15	15.247 (e)	P
Radiated Band Edge Emission	FCC PART 15	15.205	P
Antenna Requirement	FCC PART 15	15.203	P
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT Description	:	AeroBand
Model No.	:	DL-1902A
Trademark	:	AeroBand
Model Number	:	DL-1902A
DIFF.	:	N/A
Test Voltage	:	DC 3.7V by battery or DC 5V from USB
BT		
Radio Technology	:	Bluetooth 4.0 BLE
Operation frequency	:	2402-2480MHz
Channel No.		40 Channels
Channel Separation	:	2MHz
Modulation	:	GFSK
Antenna Type	:	PCB Antenna, max gain -3.3dBi.
Software version	:	V2.0
Hardware version	:	V2.3

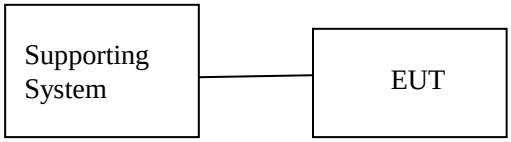
2.2.Accessories of Device (EUT)

Accessories1	:	USB Cable
Manufacturer	:	Beijing Dale Technology Co., Ltd.
Model	:	/
Ratings	:	20cm

2.3.Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Notebook	ACER	ZQT	N/A	DOC

2.4.Block Diagram of connection between EUT and simulators



2.5.Test Mode Description

Tested mode, channel, and data rate information		
Mode	**Channel**	**Frequency (MHz)**
GFSK	Low :CH1	2402
	Middle: CH20	2440
	High: CH40	2480

2.6.Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7.Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: CN0085

2.8.Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10-8
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9.Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	1Year
Spectrum analyzer	ROHDE&SCHWARZ	FSU	1166.1660.26	2019.09.06	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2019.09.05	1Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2019.09.06	1Year
Receiver	R&S	ESCI	101165	2019.09.05	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2018.04.13	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2018.04.13	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2018.09.26	2Year
Cable	Resenberger	N/A	No.1	2019.09.05	1Year
Cable	Resenberger	N/A	No.2	2019.09.05	1Year
Cable	Resenberger	N/A	No.3	2019.09.05	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2019.09.05	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2019.09.05	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126-466	2019.09.05	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2019.09.05	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2019.09.20	1 Year
Horn Antenna	A-INFOMW	LB-180100-KF	J211020657	2019.09.20	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2019.09.05	1 Year
Power Meter	Agilent	E9300A	MY41496625	2019.09.06	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-880	100631	2019.9.10	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2019.09.10	1 Year

3. SPURIOUS EMISSION

3.1.Test Limits

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

a) The tighter limit applies at the band edges.
b) Emission Level(dB uV/m)=20log Emission Level(uv/m)

3.2.Test Procedure

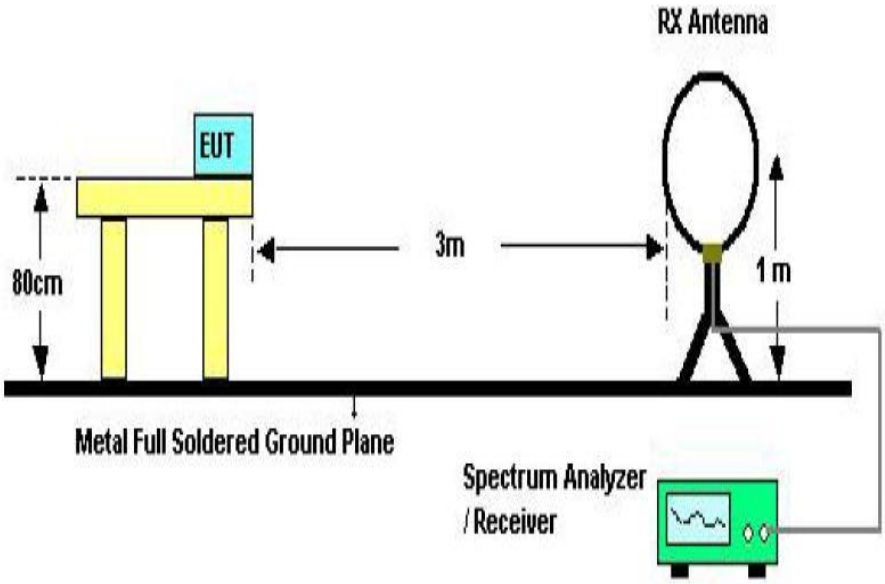
The measuring distance of 3m shall be used for measurements at frequency up to 1GH and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation

The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

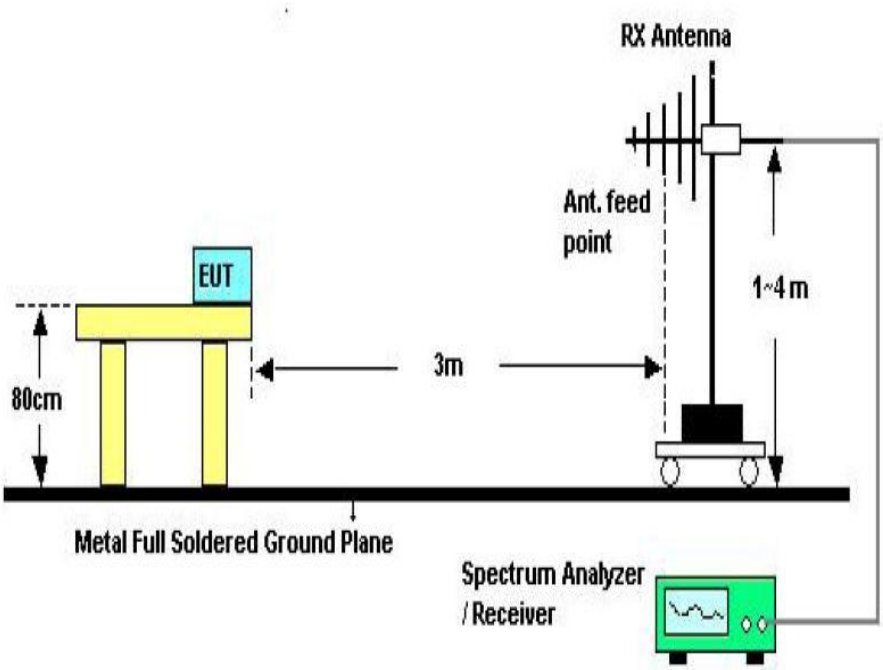
The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured

If Peak value comply with QP limit Below 1GHz.The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz. For the actual test configuration, please see the test setup photo.

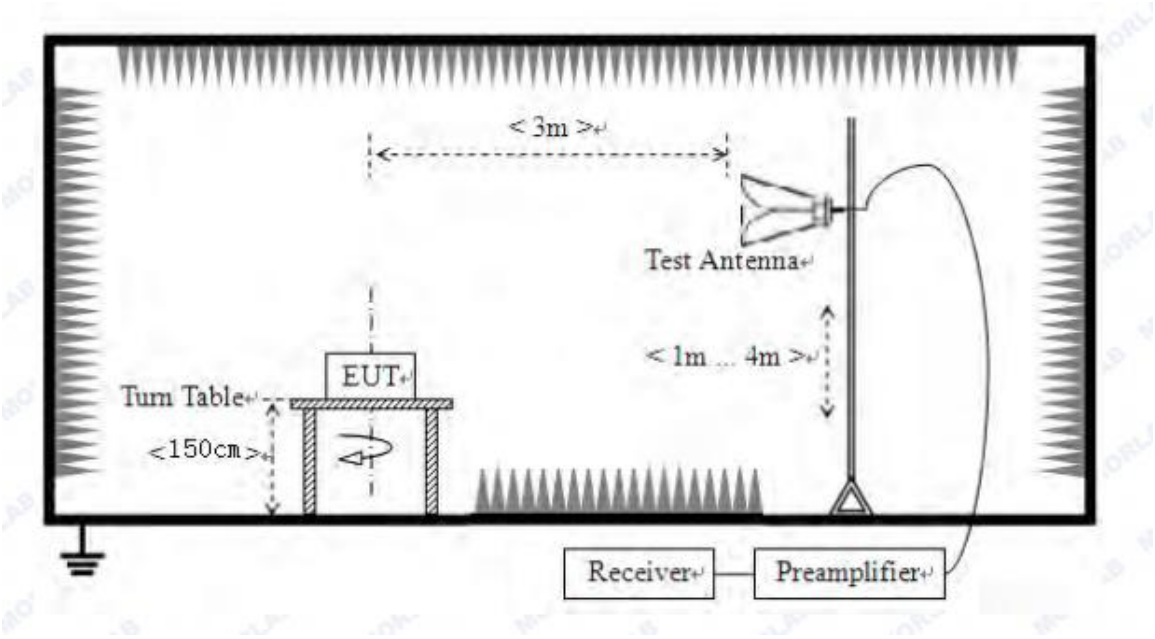
3.3.Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4.Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHZ~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the 10th harmonic from 9 kHz to the EUT.

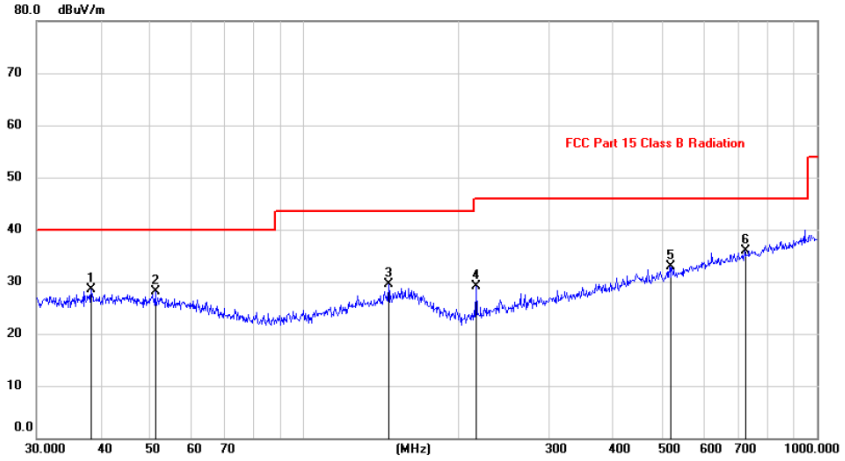
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

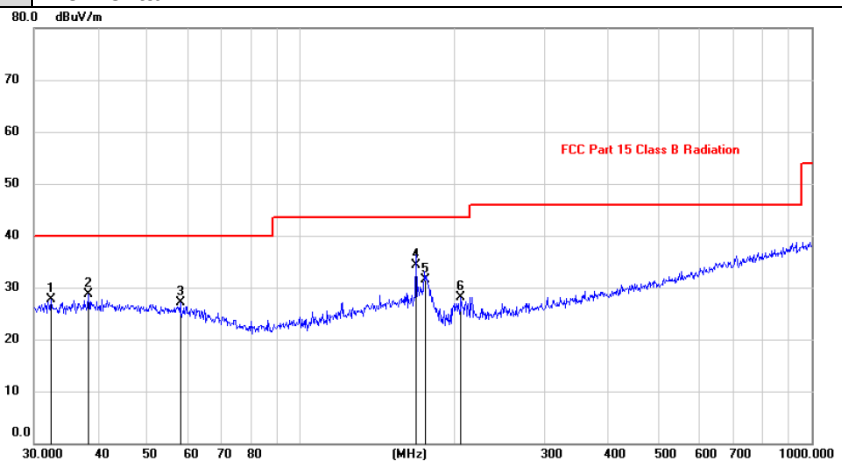
2.Only show the test data of the worst Channel in this report.

From 30MHz to 1000MHz: Conclusion: PASS			
EUT Description	AeroBand	**Model No.**	DL-1902A
Temperature	24℃	**Humidity**	56%
Pol	Vertical	**Test date**	2019/10/11
Test Voltage	DC 3.7V	**Test mode**	GFSK (2402MHz)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38.3462	14.18	14.25	28.43	40.00	-11.57	peak			
2		51.1209	14.28	13.84	28.12	40.00	-11.88	peak			
3		145.8611	14.73	14.70	29.43	43.50	-14.07	peak			
4		216.0240	17.66	11.43	29.09	46.00	-16.91	peak			
5		517.2480	14.32	18.56	32.88	46.00	-13.12	peak			
6	*	724.2611	13.78	22.14	35.92	46.00	-10.08	peak			

Pol	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.4059	14.04	13.66	27.70	40.00	-12.30	peak			
2		38.3462	14.46	14.25	28.71	40.00	-11.29	peak			
3		58.2030	13.64	13.37	27.01	40.00	-12.99	peak			
4	*	168.4138	20.04	14.21	34.25	43.50	-9.25	QP			
5		175.0368	18.24	13.32	31.56	43.50	-11.94	QP			
6		206.3976	17.16	11.01	28.17	43.50	-15.33	peak			

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK (2402MHz) was listed in this report.

From 1G-25GHz

Test Mode: TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	46.37	V	33.95	10.18	34.26	56.24	74	17.76	PK
4804	37.98	V	33.95	10.18	34.26	47.85	54	6.15	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	45.71	H	33.95	10.18	34.26	55.58	74	18.42	PK
4804	35.02	H	33.95	10.18	34.26	44.89	54	9.11	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	43.44	V	33.93	10.2	34.29	53.28	74	20.72	PK
4880	35.65	V	33.93	10.2	34.29	45.49	54	8.51	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	43.30	H	33.93	10.2	34.29	53.14	74	20.86	PK
4880	34.41	H	33.93	10.2	34.29	44.25	54	9.75	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	45.10	V	33.98	10.22	34.25	55.05	74	18.95	PK
4960	36.07	V	33.98	10.22	34.25	46.02	54	7.98	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	41.62	H	33.98	10.22	34.25	51.57	74	22.43	PK
4960	33.11	H	33.98	10.22	34.25	43.06	54	10.94	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

Note:
1, Result = Read level + Antenna factor + cable loss-Amp factor
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

4. POWER LINE CONDUCTED EMISSION

4.1. Test Limits

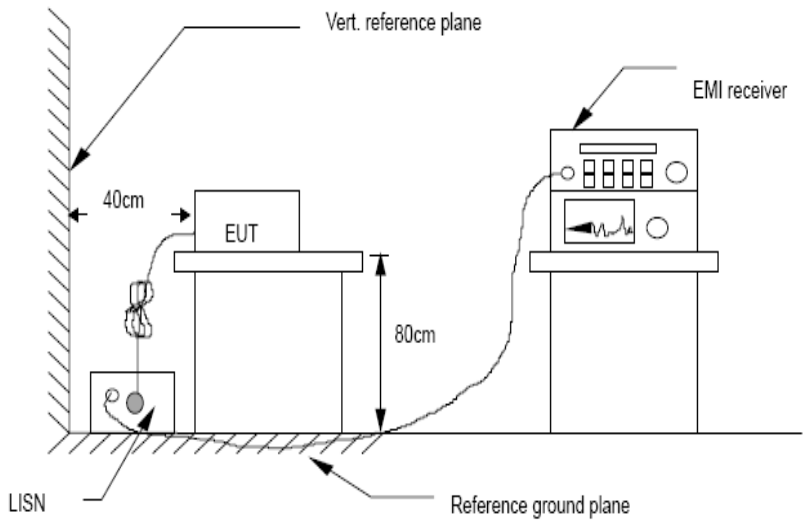
Frequency	Limits dB(μV)	
MHz	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.
3.The limit decreases in line with the logarithm of the frequency in rang of 0.15 to 0.50 MHz.

4.2. Test Procedure

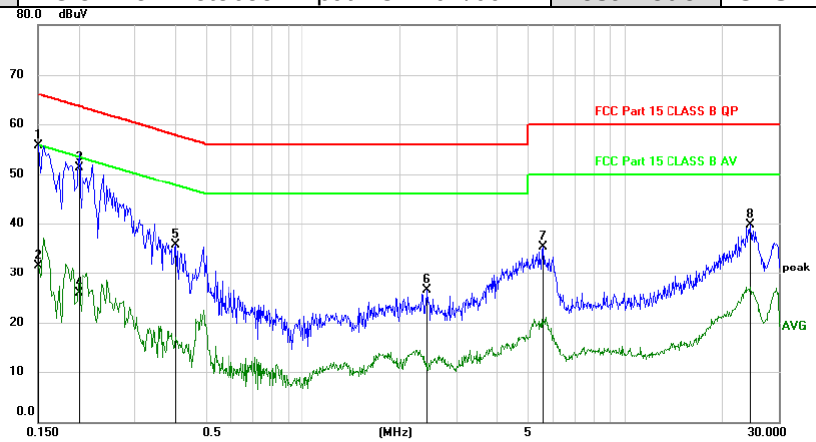
The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI ANSI C63.10:2013 on Conducted Emission Measurement.
The bandwidth of test receiver is set at 9 kHz.

4.3.Test Setup



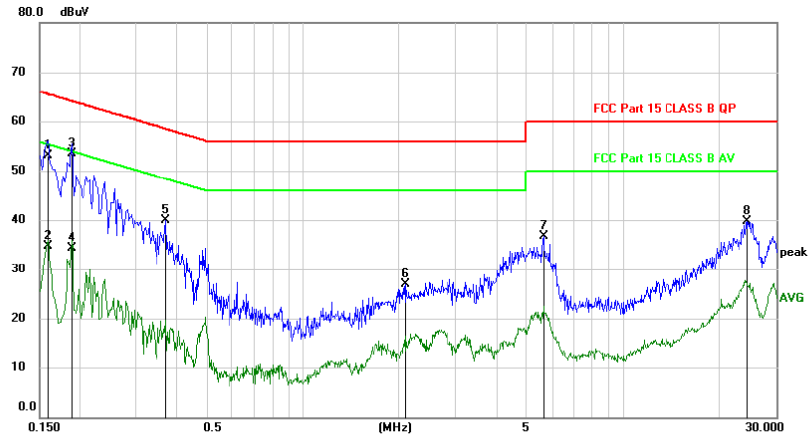
4.4.Test Results

EUT Description	AeroBand	Model No.	DL-1902A
Temperature	24℃	Humidity	56%
Pol	Line	Test date	2019/10/10
Test Voltage	DC 5V from notebook input AC 120V/60Hz	Test mode	GFSK (2402MHz)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	45.90	9.80	55.70	66.00	-10.30	QP	
2		0.1500	21.79	9.80	31.59	56.00	-24.41	AVG	
3		0.2010	41.43	9.80	51.23	63.57	-12.34	QP	
4		0.2010	16.11	9.80	25.91	53.57	-27.66	AVG	
5		0.4020	25.87	9.80	35.67	57.81	-22.14	peak	
6		2.4329	16.70	9.71	26.41	56.00	-29.59	peak	
7		5.5800	25.49	9.80	35.29	60.00	-24.71	peak	
8		24.5910	29.99	9.71	39.70	60.00	-20.30	peak	

Pol	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	43.40	9.80	53.20	65.52	-12.32	QP	
2		0.1590	24.82	9.80	34.62	55.52	-20.90	AVG	
3	*	0.1890	43.67	9.80	53.47	64.08	-10.61	QP	
4		0.1890	24.46	9.80	34.26	54.08	-19.82	AVG	
5		0.3720	30.20	9.80	40.00	58.46	-18.46	peak	
6		2.0880	17.14	9.70	26.84	56.00	-29.16	peak	
7		5.6430	26.82	9.80	36.62	60.00	-23.38	peak	
8		24.3360	29.93	9.71	39.64	60.00	-20.36	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK (2402MHz) was listed in this report.

5. CONDUCTED MAXIMUM OUTPUT POWER

5.1.Test limits

Please refer section RSS-247 & 15.247.

5.2.Test Procedure

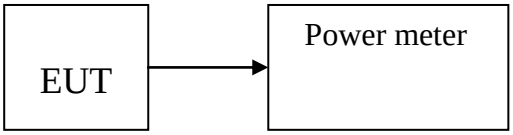
Details see the KDB558074 D01 Meas Guidance V05

5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.3.Test Setup



5.4.Test Results

Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
CH1	2402	-12.985	30
CH20	2440	-13.524	30
CH40	2480	-17.3	30
Conclusion: PASS			

6. POWER SPECTRAL DENSITY

6.1.Test limits

6.1.1 Please refer section RSS-247 & 15.247.

6.1.2 For direct sequence systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V05

6.2.1 Place the EUT on the table and set it in transmitting mode.

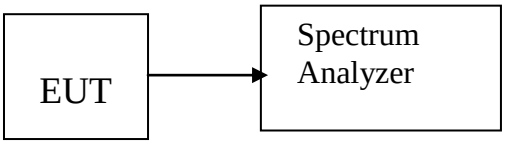
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Detector = RMS. Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: 3 kHz≤ RBW≤100 kHz.), VBW = 10kHz(Set the VBW≥3×RBW), span=1.5×DTS bandwidth., detail see the test plot.

6.2.4 Record the max reading.

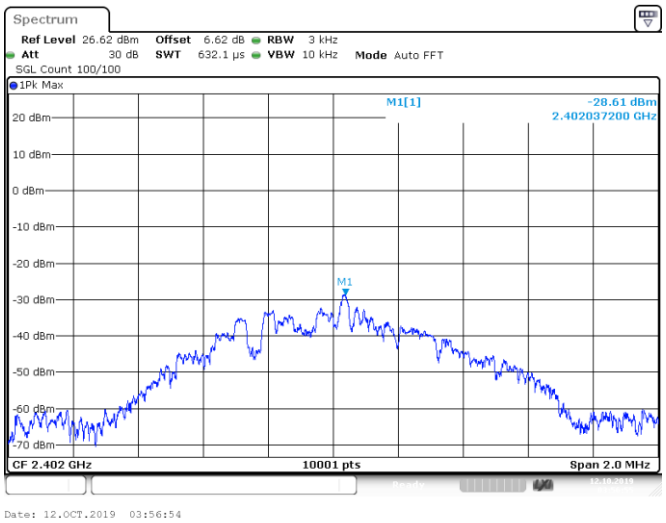
6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

6.3.Test Setup

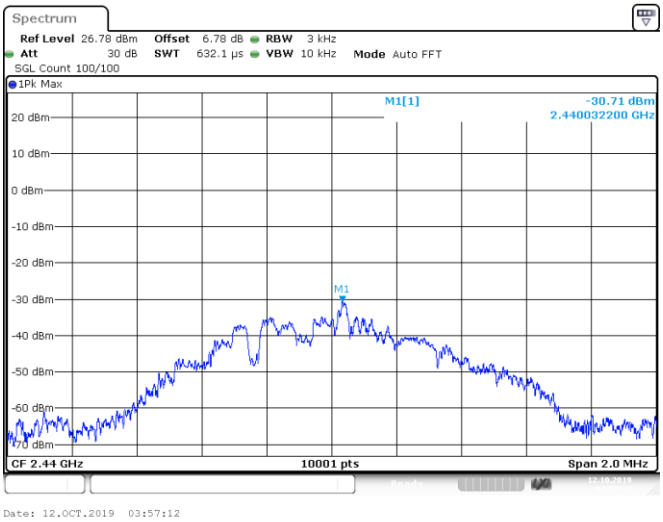


6.4.Test Results

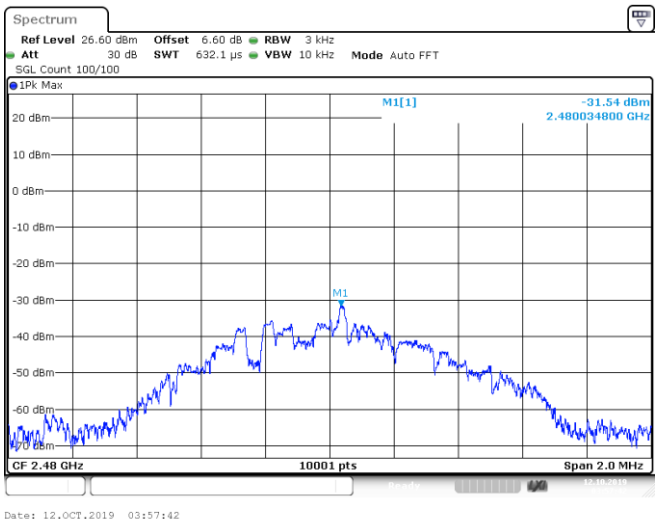
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm)	Result
CH1	2402	-28.611	8	PASS
CH20	2440	-30.715	8	PASS
CH40	2480	-31.538	8	PASS
Conclusion: PASS				



Lowest channel



Middle channel



Highest channel

7. BANDWIDTH

7.1.Test limits

Please refer sectionRSS-247 & 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

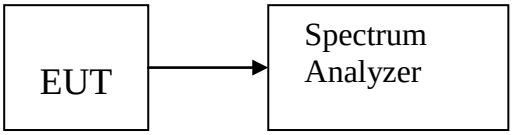
7.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V05

a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set RBW = 100kHz, VBW⩾3*RBW =300kHz,, Sweep time set auto, detail see the test plot.

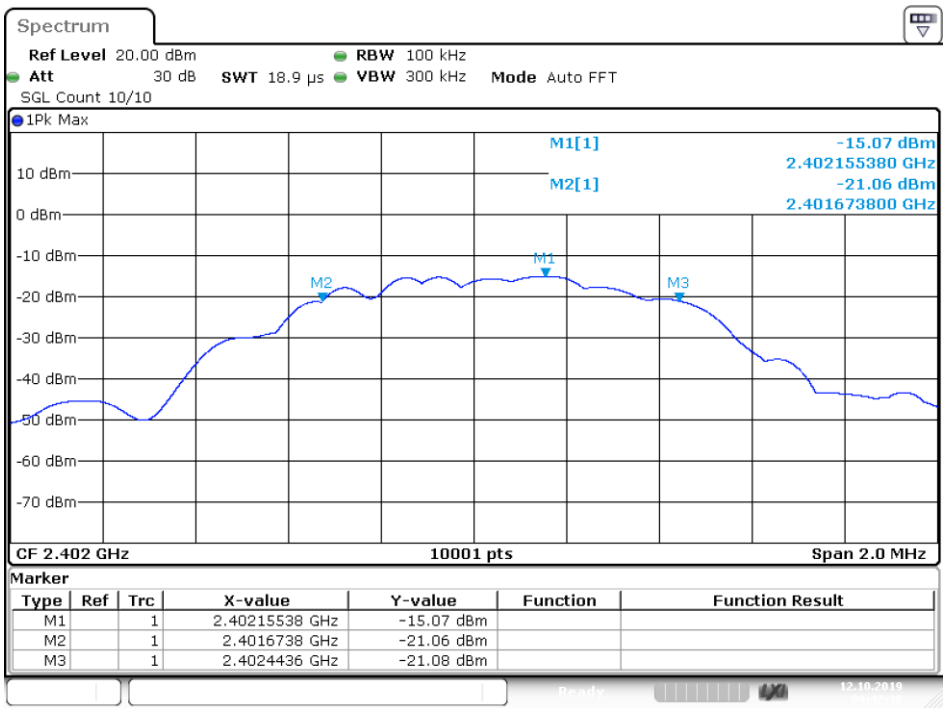
7.3.Test Setup



7.4.Test Results

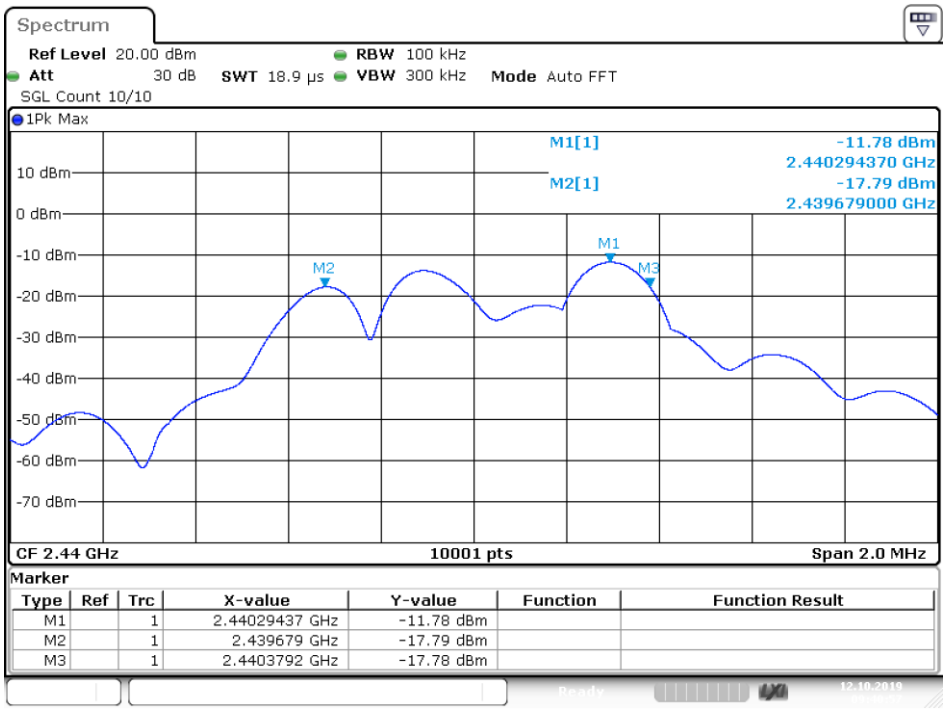
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant 1	0.7698	0.5	Pass
NVNT	1-DH1	2440	Ant 1	0.7002	0.5	Pass
NVNT	1-DH1	2480	Ant 1	0.5502	0.5	Pass

-6 dB BW NVNT BLE 2402MHz Ant1



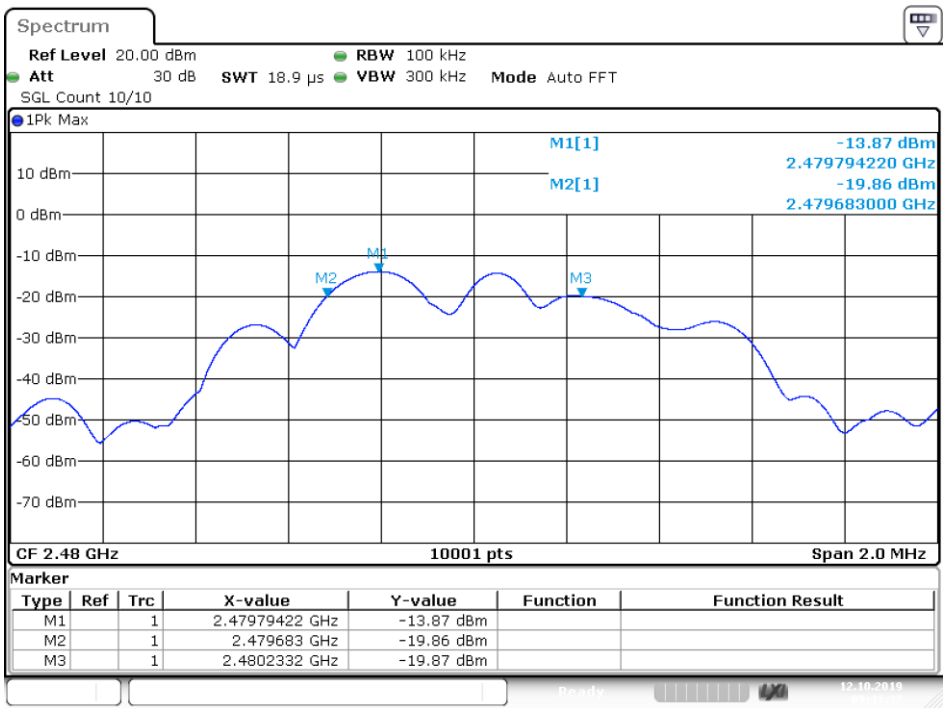
Date: 12.OCT.2019 09:42:38

-6 dB BW NVNT BLE 2440MHz Ant1



Date: 12.OCT.2019 09:40:57

-6 dB BW NVNT BLE 2480MHz Ant1



Date: 12.OCT.2019 09:41:37

8. BAND EDGE CHECK

8.1.Test limits

Please refer section RSS-GEN&15.247.

8.2.Test Procedure

Details see the KDB558074 D01 Meas Guidance V05

8.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

8.3.Test Setup

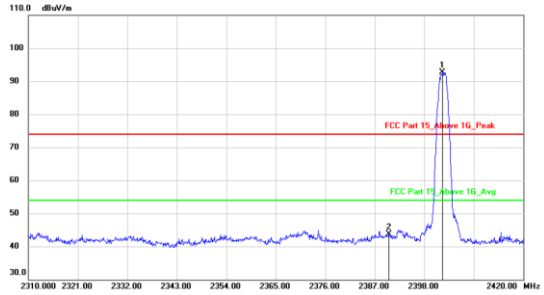
Same as 5.2.2.

8.4.Test Results

Radiated Method:

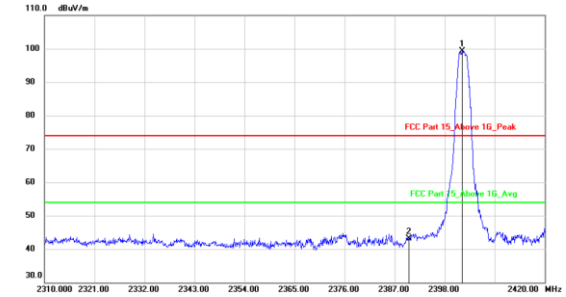
Test Mode: Low

Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2402.070	96.04	-3.41	92.63	74.00	18.63	peak			
2		2390.000	47.10	-3.40	43.70	74.00	-30.30	peak			

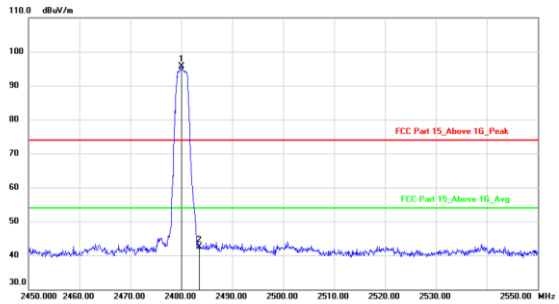
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2401.850	102.69	-3.41	99.28	74.00	25.28	peak			
2		2390.000	46.50	-3.40	43.10	74.00	-30.90	peak			

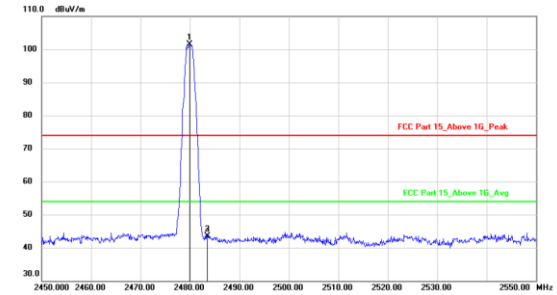
Test Mode: High

Polarization: Vertical



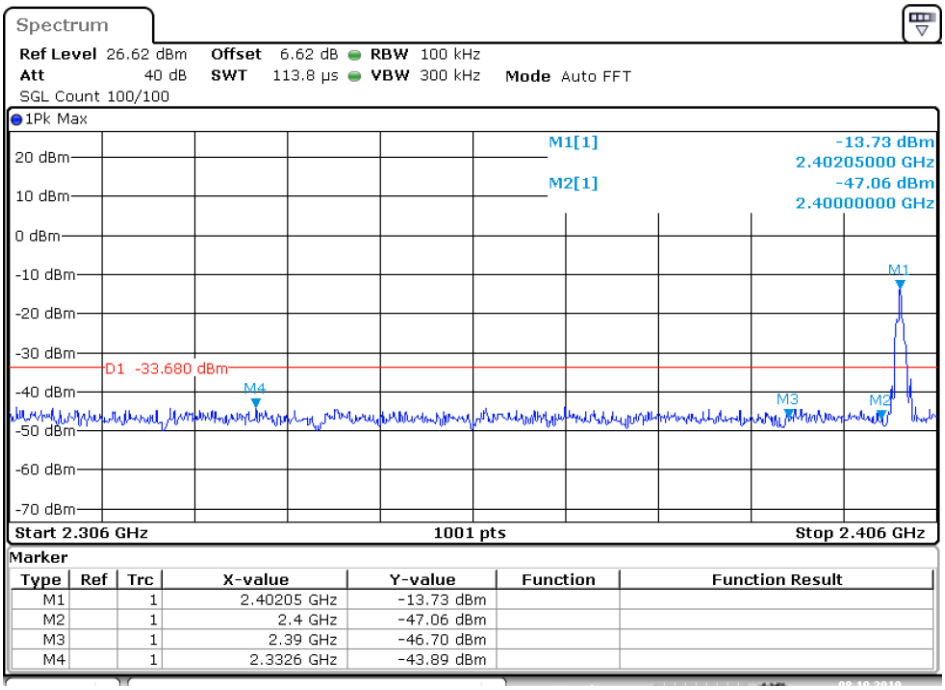
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2480.100	99.04	-3.38	95.66	74.00	21.66	peak			
2		2483.500	45.89	-3.38	42.51	74.00	-31.49	peak			

Polarization: Horizontal

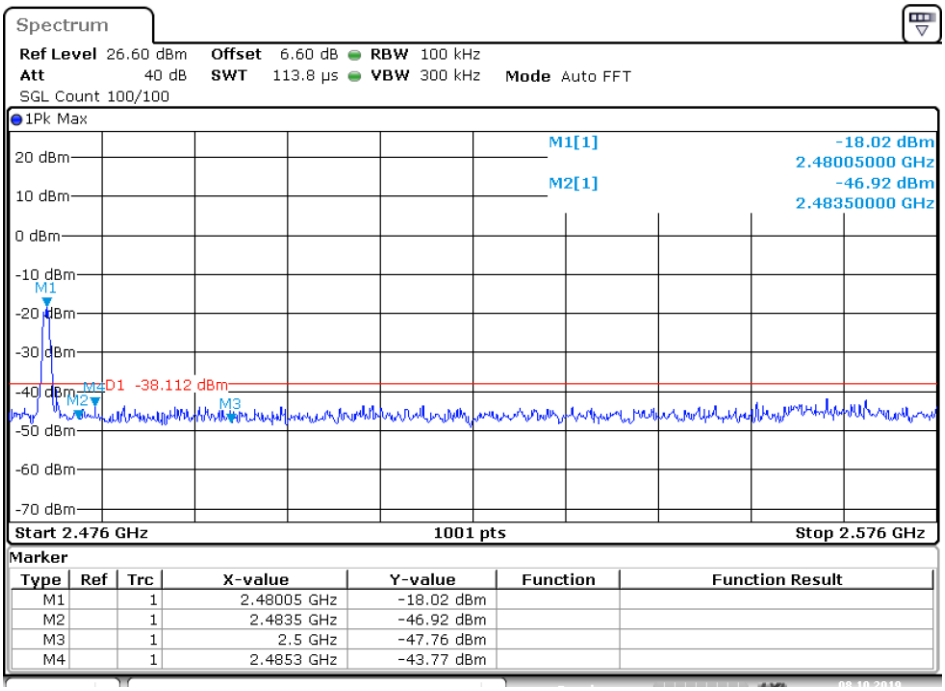


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2479.900	104.94	-3.38	101.56	74.00	27.56	peak			
2		2483.500	46.84	-3.38	43.46	74.00	-30.54	peak			
3		2483.500	46.84	-3.38	43.46	74.00	-30.54	peak			

Conducted Method:



Lowest channel



Highest channel

9. ANTENNA REQUIREMENT

9.1.Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2.Antenna Connected Construction

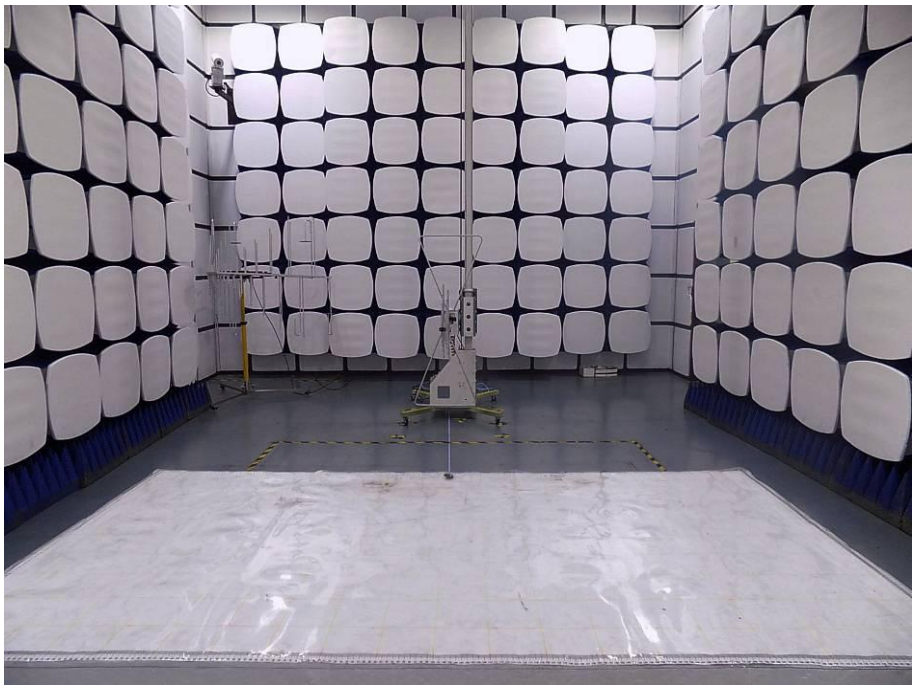
The antenna is PCB antenna and no consideration of replacement. Please see EUT photo for details.

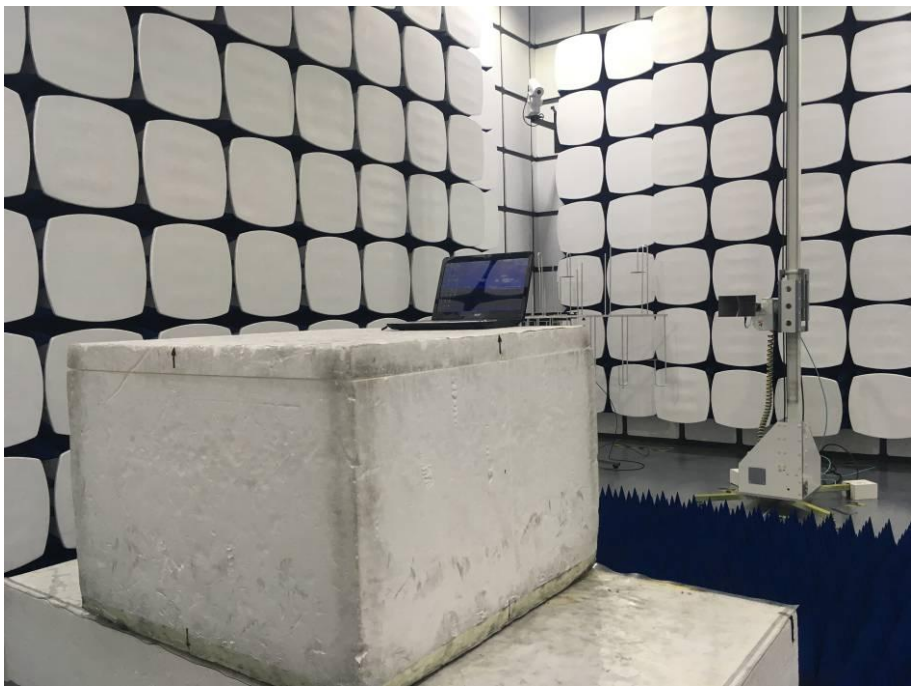
9.3.Results

The EUT antenna 1 is PCB Antenna. It complies with the standard requirement.

10. TEST SETUP PHOTO

10.1. Photos of Radiated emission



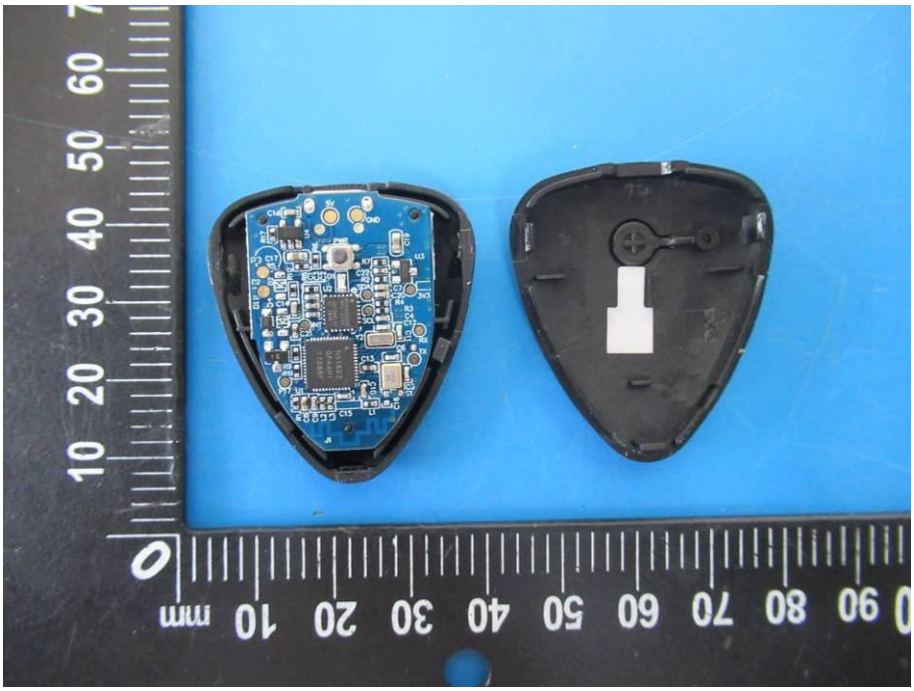


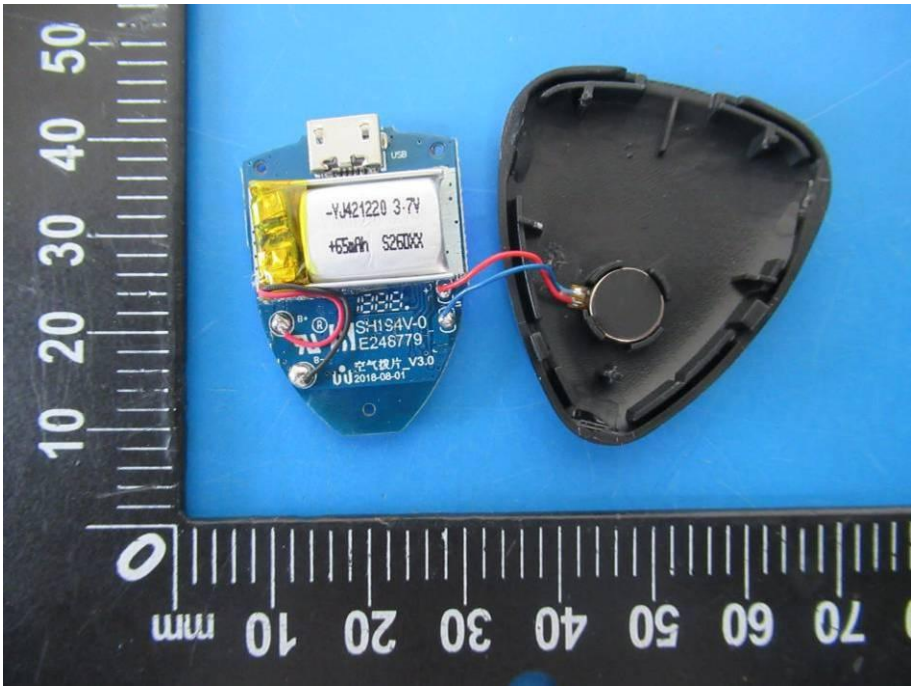
10.2.Photos of Conducted Emission test

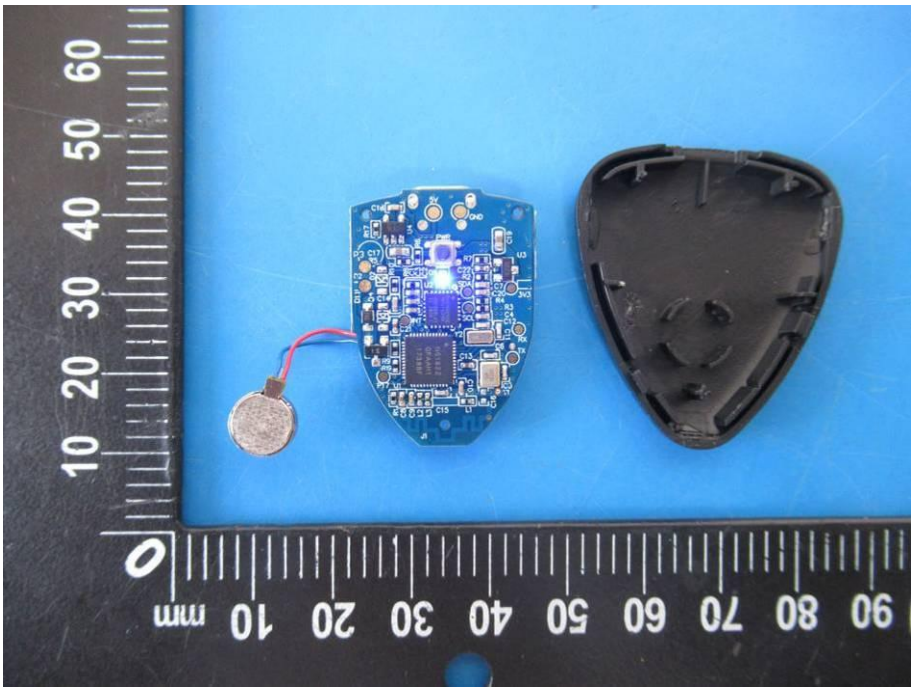
11.EUT PHOTO

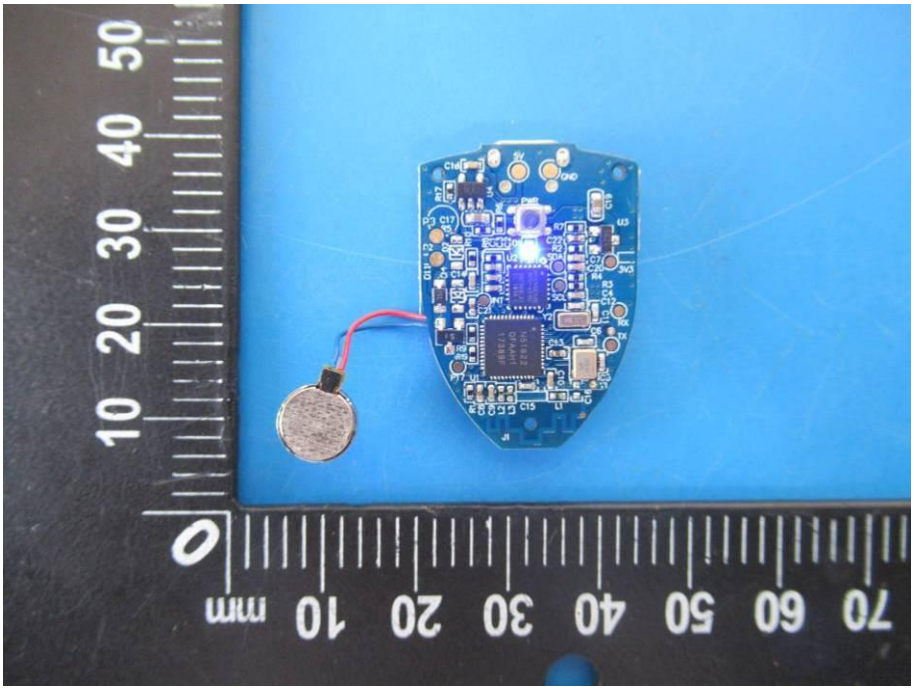
mm
0
10
20
30
40
50
60

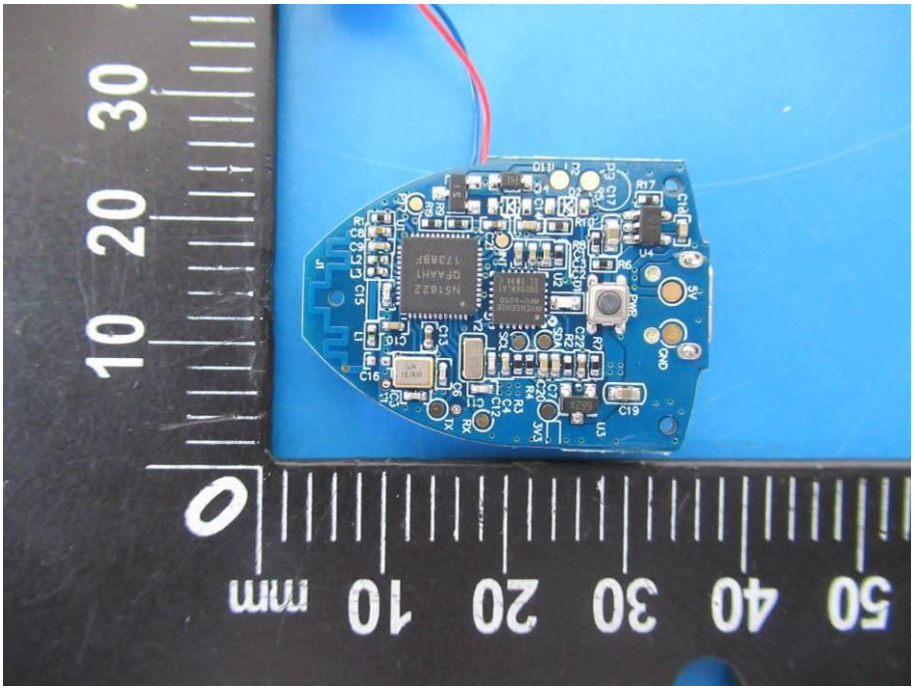
mm
0
10
20
30
40
50
60




-YJ421220 3.7V
SH194V-0
E246779
空气拨片_V3.0
2018-08-01







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