Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT
FCC Rules and Regulations Part PART 15.249

Report Reference No……..:	**CTA22062701001**
FCC ID……..:	**2A566-BODYPACK-4**
Compiled by (position+printed name+signature)..:	File administrators Kevin Liu
Supervised by (position+printed name+signature)..:	Project Engineer Kevin Liu
Approved by (position+printed name+signature)..:	RF Manager Eric Wang
Date of issue.....:	Jul. 07, 2022
Testing Laboratory Name .....:	**Shenzhen CTA Testing Technology Co., Ltd.**
Address .....:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao' an District, Shenzhen, China
Applicant's name.....:	**ENPING SHANGGE ELECTRONIC CO.,LTD.**
Address .....:	No. F12 Civilian and Foreign Capital Industry Area, Enping City, Guangdong, China
Standard .....:	**FCC Rules and Regulations Part PART 15.249**

Test item description .....:	**Bodypack Transmitter**
Trade Mark .....:	N/A
Manufacturer .....:	ENPING SHANGGE ELECTRONIC CO.,LTD.
Model/Type reference.....:	BODYPACK-4
Listed Models .....:	MIC-45,MIC43,SG-13,SG-14,SG-14B, BM-14DI,BM14DII,BM-14, BM-13,JM-WX2U500,JM-WX1U450,SG-15U,SG-18U,UDX-OCTO, UDX-CF, UDX-HT, UDX-BP, MIC-29, MIC-42
Ratings .....:	DC 3.0V From Battery
Modulation .....:	FM
Frequency.....	902.8-926.8MHz
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Bodypack Transmitter
Model /Type	:	BODYPACK-4
Listed Models	:	MIC-45,MIC43,SG-13,SG-14,SG-14B, BM-14DI,BM14DII, BM-14, BM-13,JM-WX2U500,JM-WX1U450,SG-15U,SG-18U,UDX-OCTO, UDX-CF, UDX-HT, UDX-BP, MIC-29, MIC-42
Applicant	:	ENPING SHANGGE ELECTRONIC CO.,LTD.
Address	:	No. F12 Civilian and Foreign Capital Industry Area, Enping City, Guangdong, China
Manufacturer	:	ENPING SHANGGE ELECTRONIC CO.,LTD.
Address	:	No. F12 Civilian and Foreign Capital Industry Area, Enping City, Guangdong, China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz Range of 9 kHz to 40GHz

2 . SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Jun. 20, 2022
Testing commenced on	:	Jun. 20, 2022
Testing concluded on	:	Jul. 06, 2022

2.2. Product Description

Name of EUT	Bodypack Transmitter
Model Number	BODYPACK-4
Power Rating	DC 3.0V From Battery
Sample ID:	CTA220627010-1#(Engineer sample) CTA220627010-2#(Normal sample)
Operation frequency:	902.8-926.8MHz
Modulation:	FM
Antenna Type:	External antenna
Antenna Gain:	0dBi

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	○	120V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 3.0V From Battery

2.4. Short description of the Equipment under Test (EUT)

This is a Bodypack Transmitter
For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

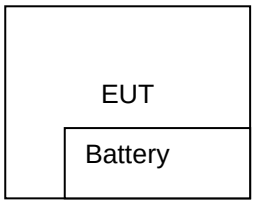
The Applicant provides test software to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 31 channels provided to the EUT. Channel Low,Mid,High was selected to test

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	**902.80**	16	915.60
01	903.60	17	916.40
02	904.40	18	917.20
03	905.20	19	918.00
04	906.00	20	918.80
05	906.80	21	919.60
06	907.60	22	920.40
07	908.40	23	921.20
08	909.20	24	922.00
09	910.00	25	922.80
10	910.80	26	923.60
11	911.60	27	924.40
12	912.40	28	925.20
13	913.20	29	926.00
14	914.00	**30**	**926.80**
15	**914.80**		

Testing Frequency:

Channel	Frequency(MHz)
Low	902.80
Mid	914.80
High	926.80

2.6. Block Diagram of Test Setup



2.7. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. TEST FACILITY

Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 27890 CAB identifier: CN0127
The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

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

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing：

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

3.4. Summary of measurement results

FCC PART 15.249		
FCC Part 15.249(a)	Field Strength of Fundamental	PASS
FCC Part 15.209	Spurious Emission	PASS
FCC Part 15.209	Band edge	PASS
FCC Part 15.215(c)	20dB bandwidth	PASS
FCC Part 15.207	Conducted Emission	N/A
FCC Part 15.203	Antenna Requirement	PASS

3.5. Statement of the measurement uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

3.6. Equipments Used during the Test

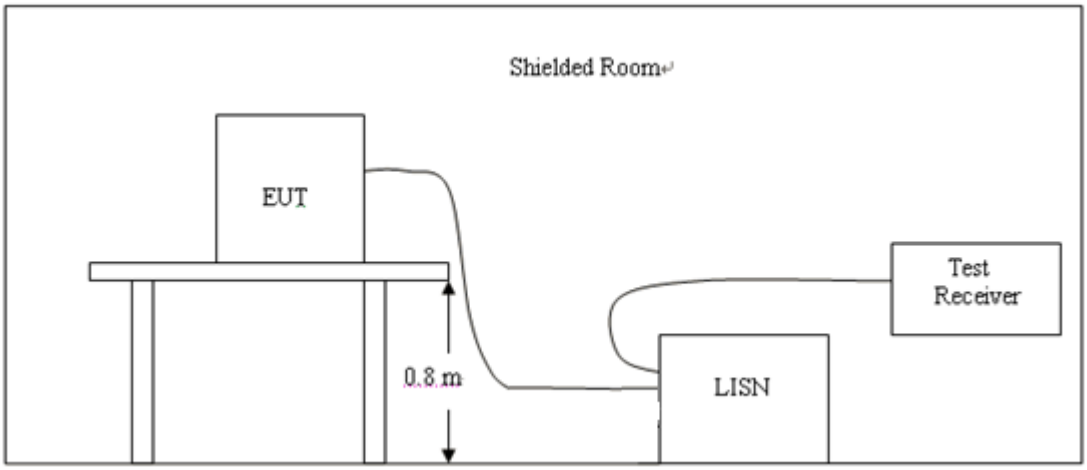
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2021/08/06	2022/08/05
LISN	R&S	ENV216	CTA-314	2021/08/06	2022/08/05
EMI Test Receiver	R&S	ESPI	CTA-307	2021/08/06	2022/08/05
EMI Test Receiver	R&S	ESCI	CTA-306	2021/08/06	2022/08/05
Spectrum Analyzer	Agilent	N9020A	CTA-301	2021/08/06	2022/08/05
Spectrum Analyzer	R&S	FSP	CTA-337	2021/08/06	2022/08/05
Vector Signal generator	Agilent	N5182A	CTA-305	2021/08/06	2022/08/05
Analog Signal Generator	R&S	SML03	CTA-304	2021/08/06	2022/08/05
Universal Radio Communication	CMW500	R&S	CTA-302	2021/08/06	2022/08/05
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2021/08/06	2022/08/05
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2021/08/07	2022/08/06
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2021/08/07	2022/08/06
Loop Antenna	Zhinan	ZN30900C	CTA-311	2021/08/07	2022/08/06
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/06	2022/08/05
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2021/08/06	2022/08/05
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2021/08/06	2022/08/05
Directional coupler	NARDA	4226-10	CTA-303	2021/08/06	2022/08/05
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2021/08/06	2022/08/05
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2021/08/06	2022/08/05
Automated filter bank	Tonscend	JS0806-F	CTA-404	2021/08/06	2022/08/05
Power Sensor	Agilent	U2021XA	CTA-405	2021/08/06	2022/08/05
Amplifier	Schwarzbeck	BBV9719	CTA-406	2021/08/06	2022/08/05

Note: The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2, Support equipment, if needed, was placed as per ANSI C63.10.
3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5, All support equipments received AC power from a second LISN, if any.
6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following：

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

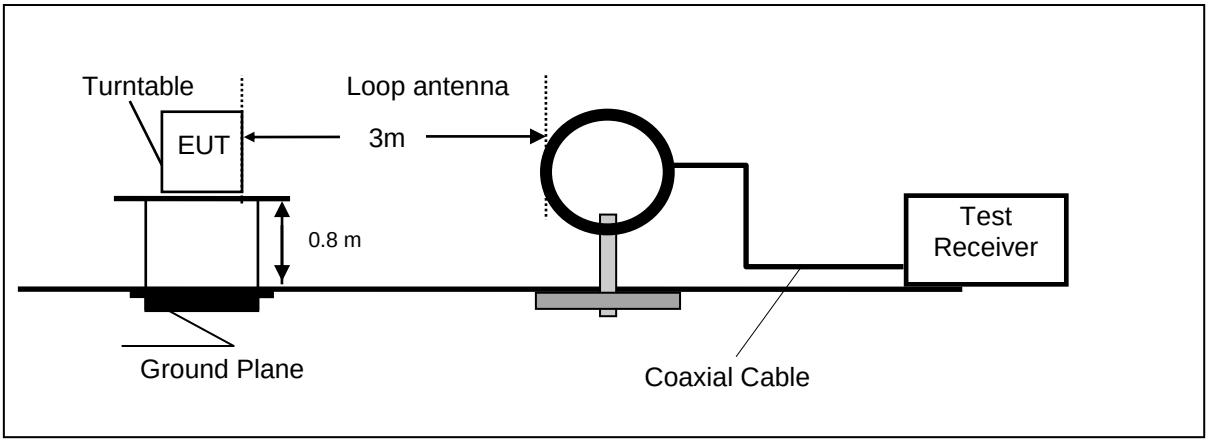
TEST RESULTS

The EUT is powered by the Battery, So this test item is not applicable for the EUT.

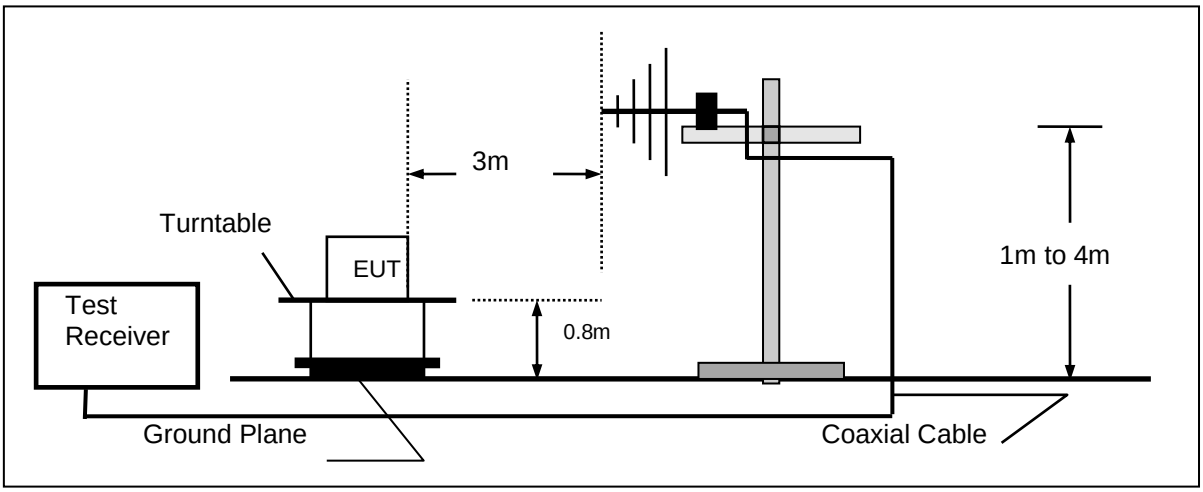
4.2. Radiated Emission and Band Edges

TEST CONFIGURATION

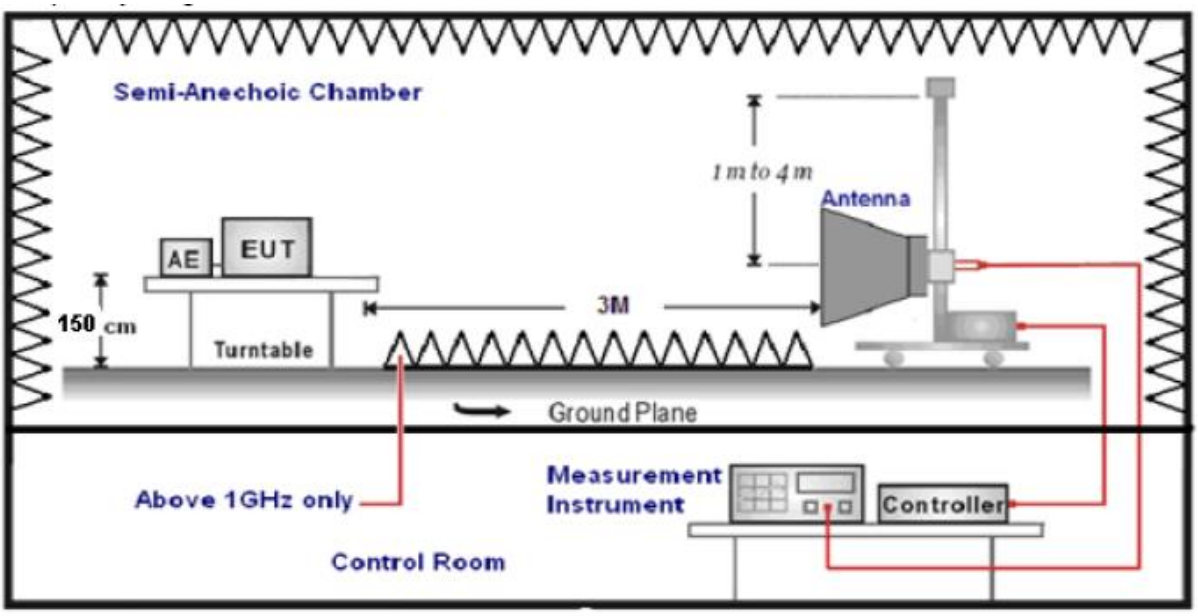
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

According 15.249, the field strength of emissions from intentional radiators operated within 2400MHz-2483.5 MHz shall not exceed 94dBμV/m (50mV/m):

FCC PART 15.249(d) 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 to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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)

Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark:

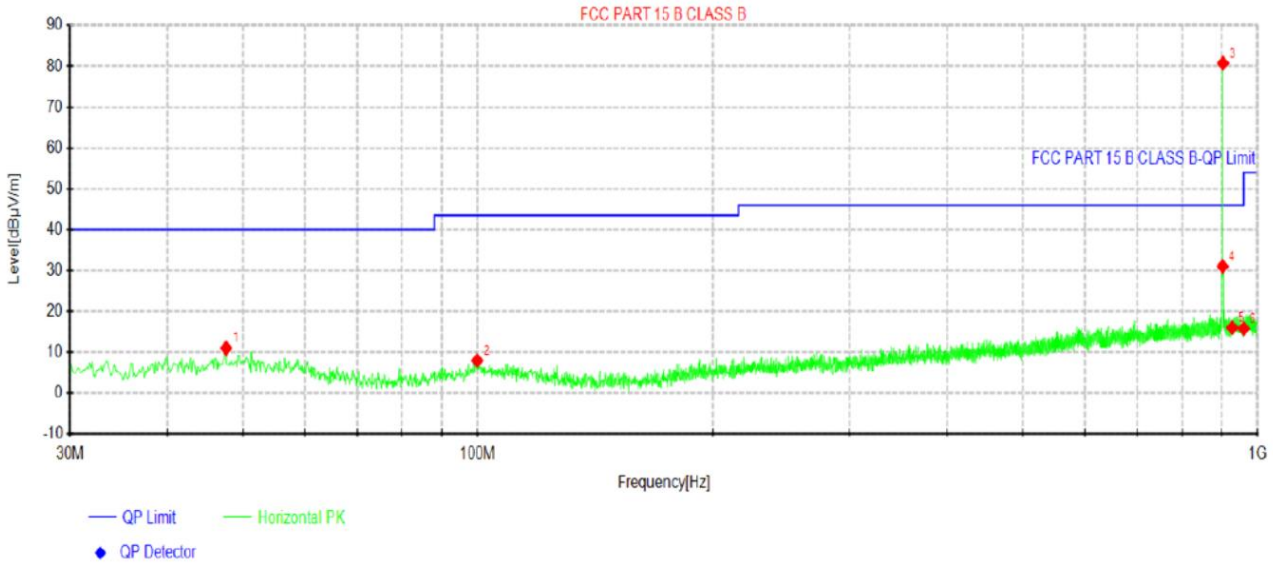
1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

2. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

Low:

Horizontal

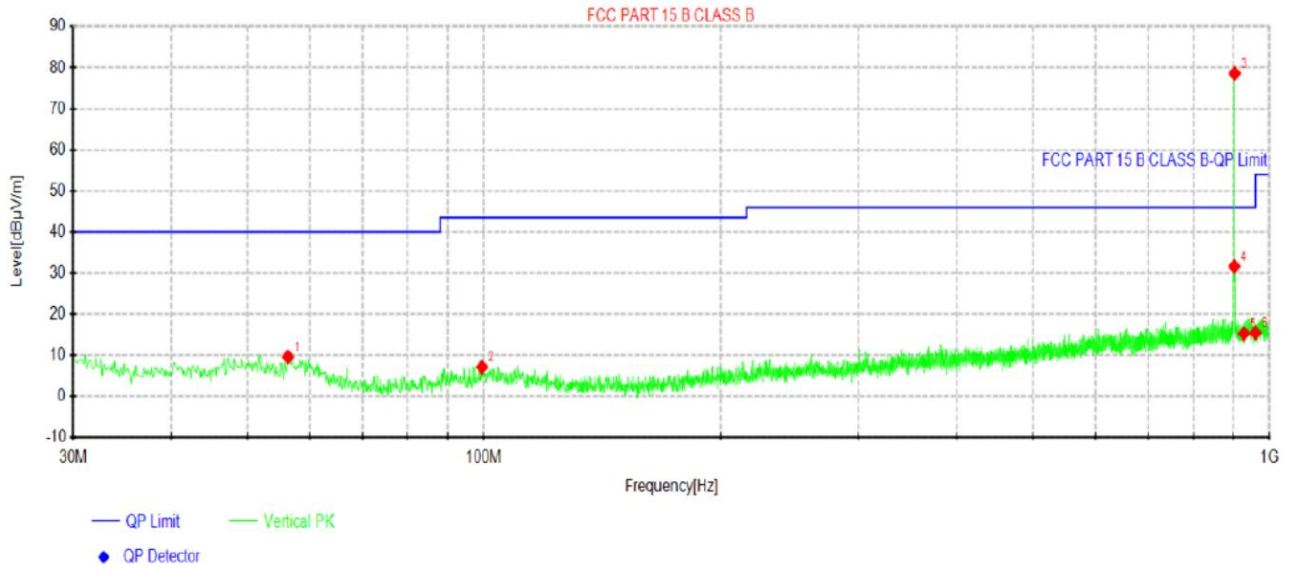


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.5812	27.30	11.05	-16.25	40.00	28.95	100	278	Horizontal
2	99.84	26.41	8.02	-18.39	43.50	35.48	100	246	Horizontal
3	902.878	89.96	80.77	-9.19	94.00	13.23	100	230	Horizontal
4	902.000	40.25	31.06	-9.19	46.00	14.94	100	351	Horizontal
5	928.000	25.09	16.07	-9.02	46.00	29.93	100	326	Horizontal
6	960.000	24.89	15.84	-9.05	54.00	38.16	100	318	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Vertical



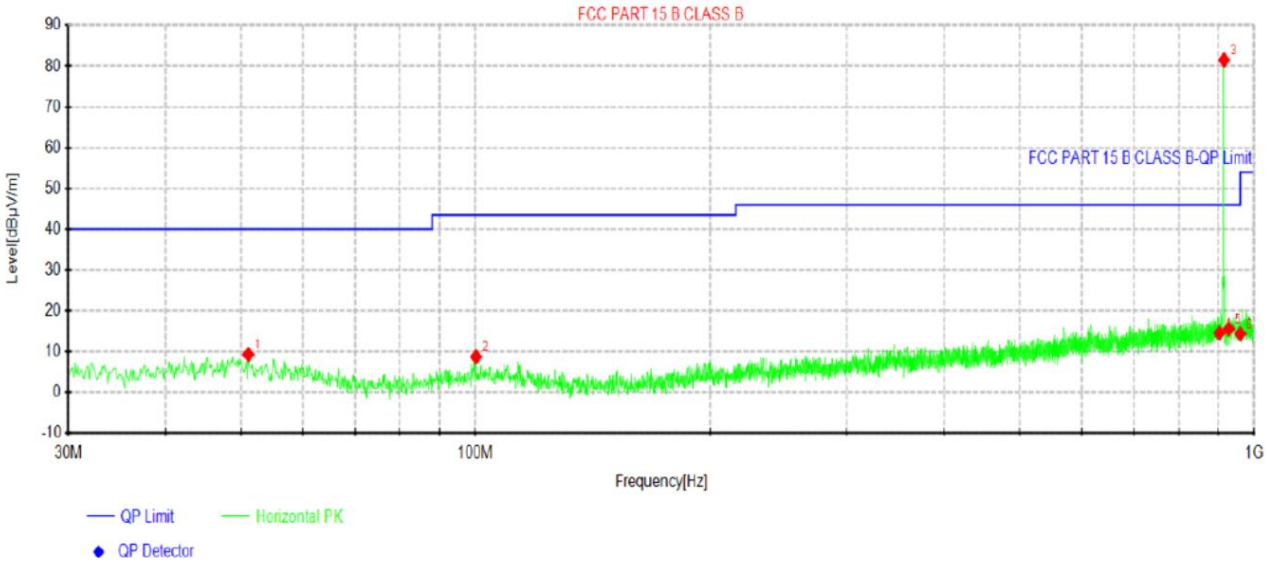
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.3112	27.08	9.66	-17.42	40.00	30.34	100	20	Vertical
2	99.4762	25.62	7.18	-18.44	43.50	36.32	100	70	Vertical
3	902.878	87.80	78.61	-9.19	94.00	15.39	100	180	Vertical
4	902.000	40.86	31.67	-9.19	46.00	14.33	100	120	Vertical
5	928.000	24.33	15.31	-9.02	46.00	30.69	100	130	Vertical
6	960.000	24.54	15.49	-9.05	54.00	38.51	100	160	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Mid:

Horizontal

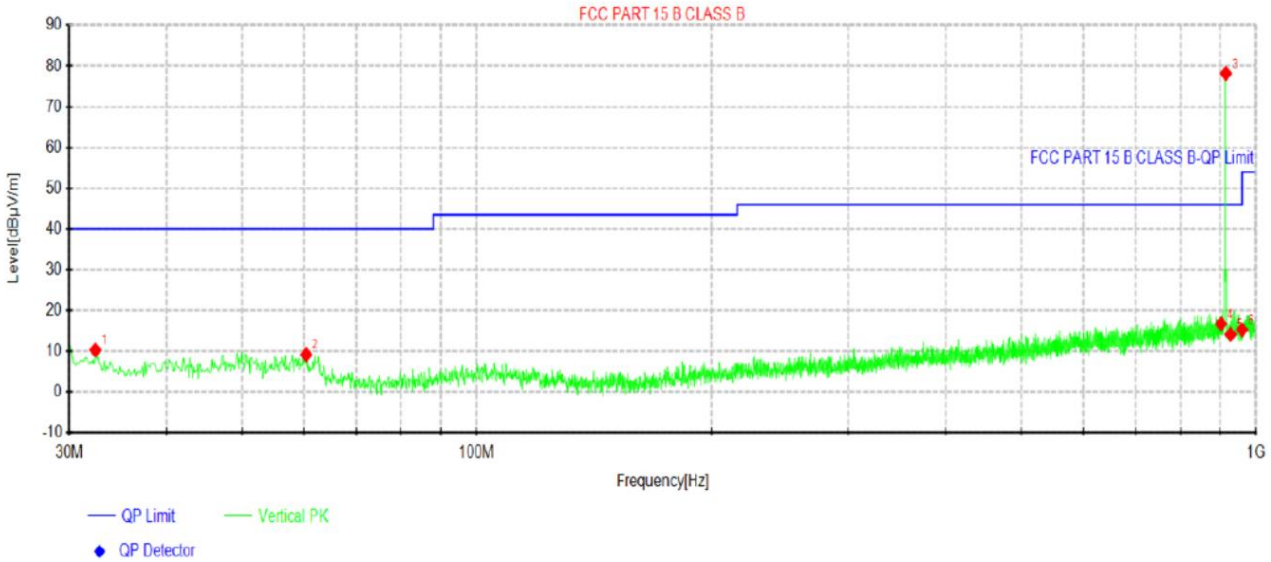


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.0975	25.62	9.32	-16.30	40.00	30.68	100	60	Horizontal
2	100.203	27.14	8.77	-18.37	43.50	34.73	100	80	Horizontal
3	914.882	90.71	81.51	-9.20	94.00	12.49	100	50	Horizontal
4	902.000	23.75	14.56	-9.19	46.00	31.44	100	90	Horizontal
5	928.000	24.61	15.59	-9.02	46.00	30.41	100	30	Horizontal
6	960.000	23.45	14.40	-9.05	54.00	39.60	100	50	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Vertical



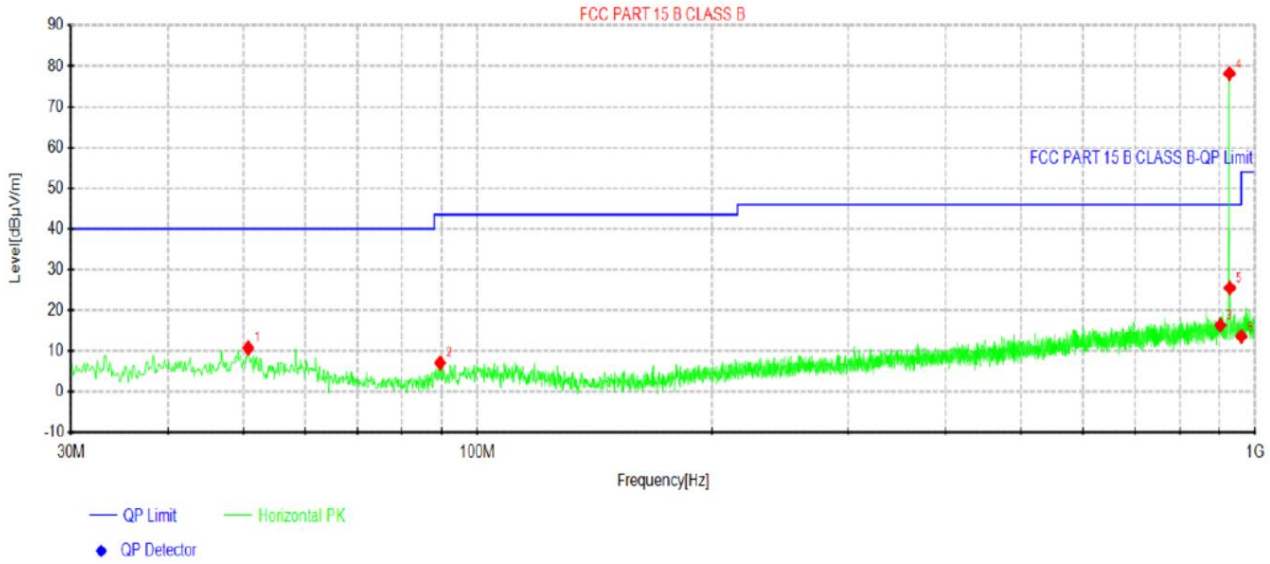
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.425	28.67	10.35	-18.32	40.00	29.65	100	50	Vertical
2	60.4338	27.54	9.21	-18.33	40.00	30.79	100	20	Vertical
3	914.882	87.39	78.19	-9.20	94.00	15.21	100	120	Vertical
4	902.000	25.96	16.77	-9.19	46.00	29.23	100	10	Vertical
5	928.000	23.19	14.17	-9.02	46.00	31.83	100	120	Vertical
6	960.000	24.37	15.32	-9.05	54.00	38.68	100	30	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

High:

Horizontal

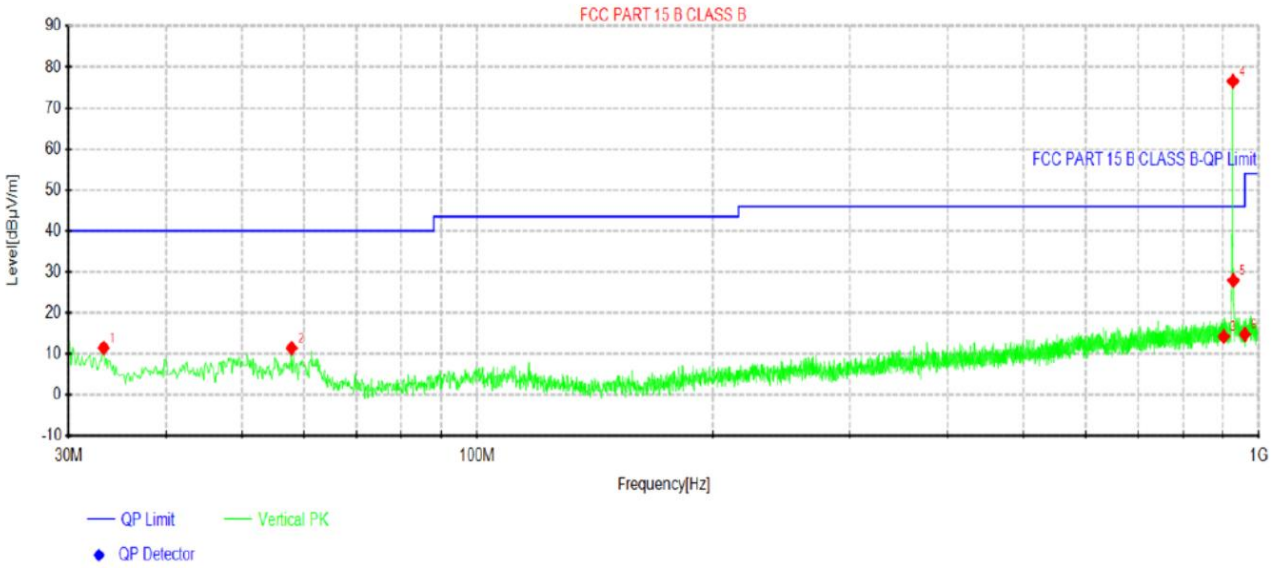


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.7338	27.02	10.80	-16.22	40.00	29.20	100	30	Horizontal
2	89.5338	27.12	7.12	-20.00	43.50	36.38	100	20	Horizontal
3	902.000	25.57	16.38	-9.19	46.00	29.62	100	90	Horizontal
4	926.886	87.24	78.20	-9.04	94.00	15.80	100	60	Horizontal
5	928.000	34.56	25.54	-9.02	46.00	20.46	100	140	Horizontal
6	960.000	22.69	13.64	-9.05	54.00	40.36	100	140	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.2738	29.66	11.50	-18.16	40.00	28.50	100	40	Vertical
2	57.8875	29.19	11.43	-17.76	40.00	28.57	100	80	Vertical
3	902.000	23.47	14.28	-9.19	46.00	31.72	100	50	Vertical
4	926.765	85.62	76.58	-9.04	94.00	17.42	100	70	Vertical
5	928.000	37.00	27.98	-9.02	46.00	18.02	100	40	Vertical
6	960.000	23.84	14.79	-9.05	54.00	39.21	100	70	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

For 1GHz to 25GHz

GFSK (above 1GHz)

Low：

Frequency(MHz):			**902.8**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1805.60	45.02	PK	74	28.98	57.32	25.48	3.56	41.34	-12.30
1805.60	36.46	AV	54	17.54	48.76	25.48	3.56	41.34	-12.30
2708.40	41.64	PK	74	32.36	50.84	28.3	4.53	42.03	-9.20
2708.40	32.56	AV	54	21.44	41.76	28.3	4.53	42.03	-9.20

Frequency(MHz):			**902.8**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1805.60	46.13	PK	74	27.87	58.43	25.48	3.56	41.34	-12.30
1805.60	36.82	AV	54	17.18	49.12	25.48	3.56	41.34	-12.30
2708.40	42.26	PK	74	31.74	51.46	28.3	4.53	42.03	-9.20
2708.40	32.71	AV	54	21.29	41.91	28.3	4.53	42.03	-9.20

Mid:

Frequency(MHz):			**914.80**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1829.60	44.85	PK	74	29.15	57.12	25.53	3.56	41.36	-12.27
1829.60	35.67	AV	54	18.33	47.94	25.53	3.56	41.36	-12.27
2744.40	42.12	PK	74	31.88	51.28	28.38	4.52	42.06	-9.16
2744.40	32.56	AV	54	21.44	41.72	28.38	4.52	42.06	-9.16

Frequency(MHz):			**914.80**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1829.60	46.75	PK	74	27.25	59.02	25.53	3.56	41.36	-12.27
1829.60	36.22	AV	54	17.78	48.49	25.53	3.56	41.36	-12.27
2744.40	42.93	PK	74	31.07	52.09	28.38	4.52	42.06	-9.16
2744.40	33.68	AV	54	20.32	42.84	28.38	4.52	42.06	-9.16

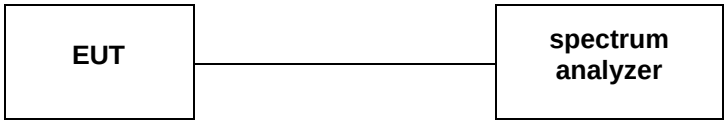
High:

Frequency(MHz):			**926.80**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1853.60	45.11	PK	74	28.89	57.39	25.57	3.57	41.42	-12.28
1853.60	36.04	AV	54	17.96	48.32	25.57	3.57	41.42	-12.28
2780.40	44.83	PK	74	29.17	53.98	28.42	4.53	42.1	-9.15
2780.40	32.83	AV	54	21.17	41.98	28.42	4.53	42.1	-9.15

Frequency(MHz):			**926.80**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1853.60	46.20	PK	74	27.80	58.48	25.57	3.57	41.42	-12.28
1853.60	37.04	AV	54	16.96	49.32	25.57	3.57	41.42	-12.28
2780.40	45.53	PK	74	28.47	54.68	28.42	4.53	42.1	-9.15
2780.40	33.76	AV	54	20.24	42.91	28.42	4.53	42.1	-9.15

4.3. 20dB bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100KHz RBW and 300KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Occupied Bandwidth is defined as the average power emitted out-of-band below its lower frequency limit or above the upper frequency limit is each equal to 0.5% of the total average power of a given emission.

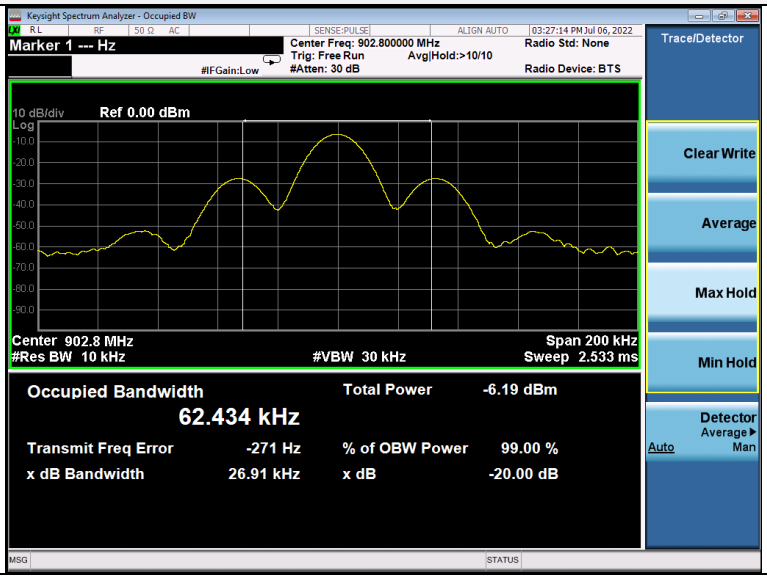
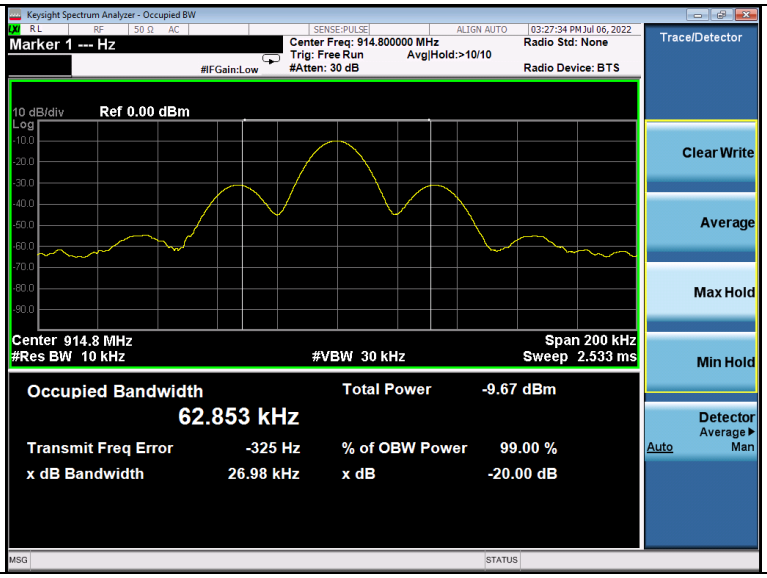
LIMIT

N/A

TEST RESULTS

Modulation	Channel	20dB bandwidth (kHz)	Result
FM	Low	26.91	Pass
	Mid	26.98	
	High	26.91	

Note: 1.The test results including the cable lose.

FM Modulation

Low

Mid

High

4.4. Antenna Requirement

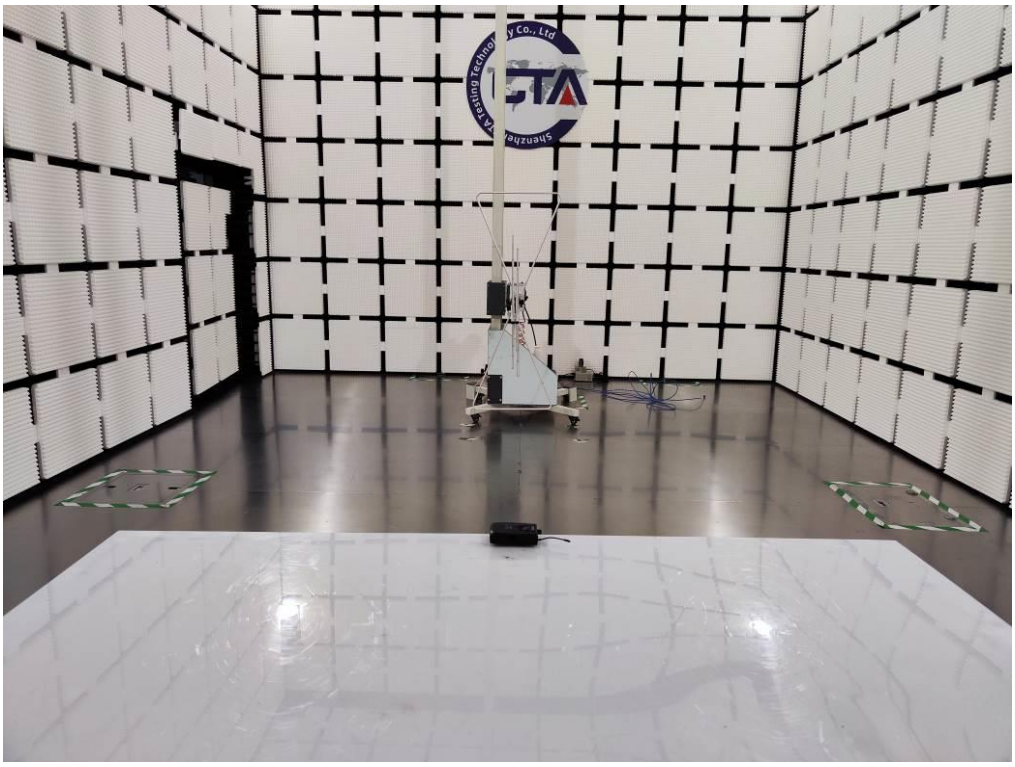
Standard Applicable

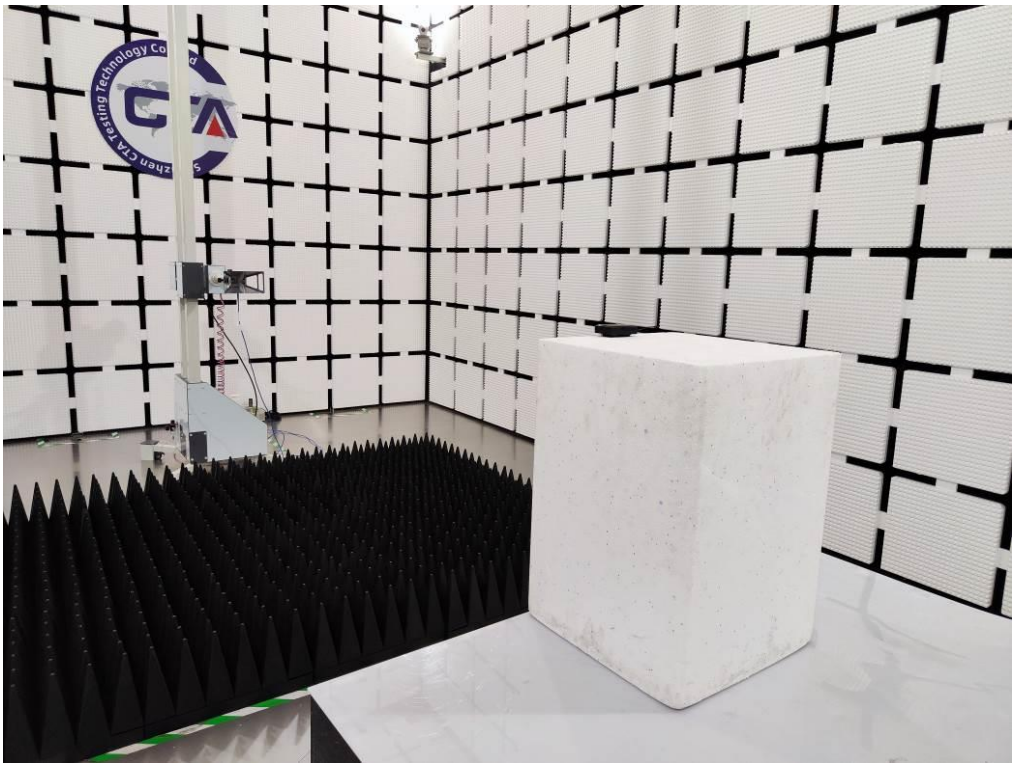
According to RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered 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.

Antenna Information

The directional gains of antenna used for transmitting is 0.00dBi, and the antenna is connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5. Test Setup Photos of the EUT



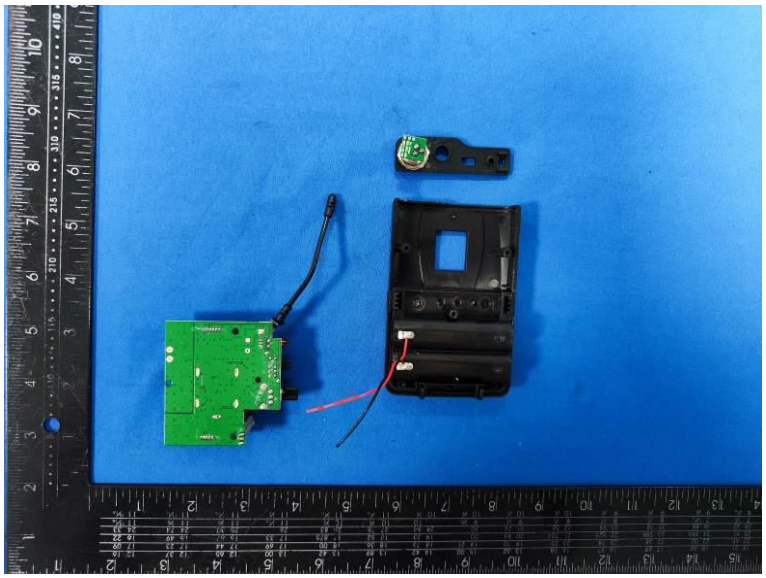


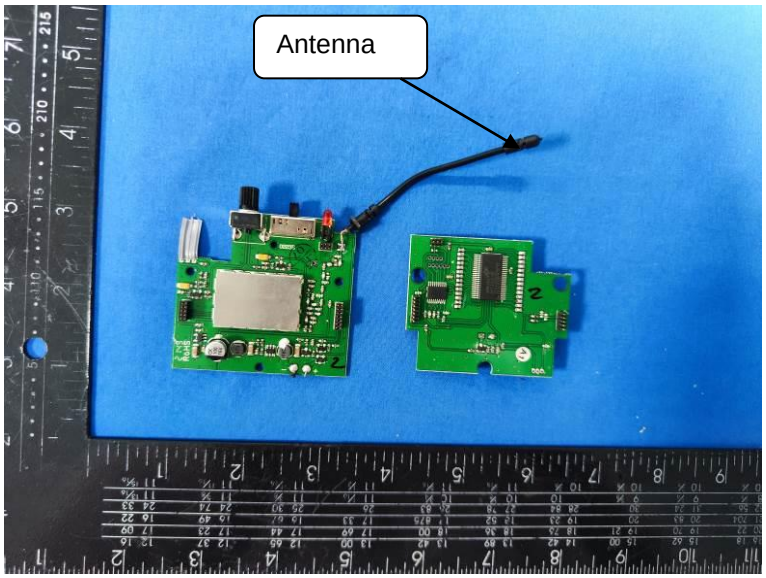
6. Photos of the EUT

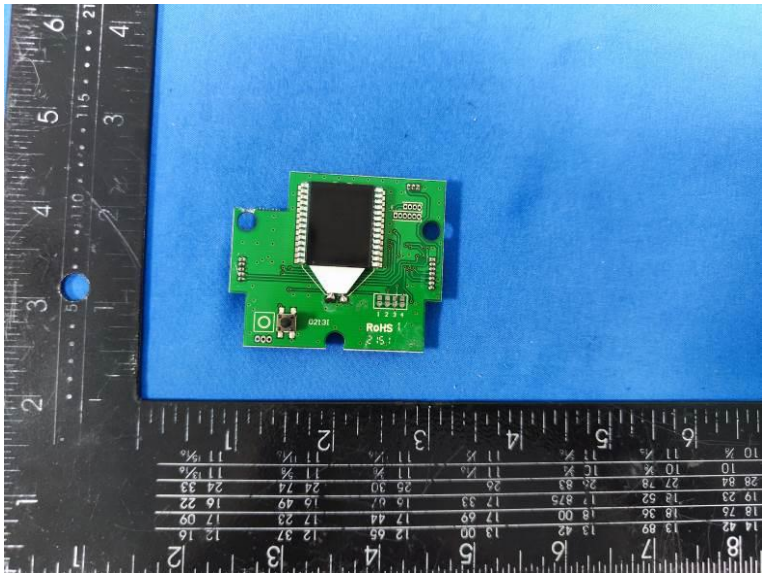

UHF
MULTI CHANNEL
TRANSMITTER

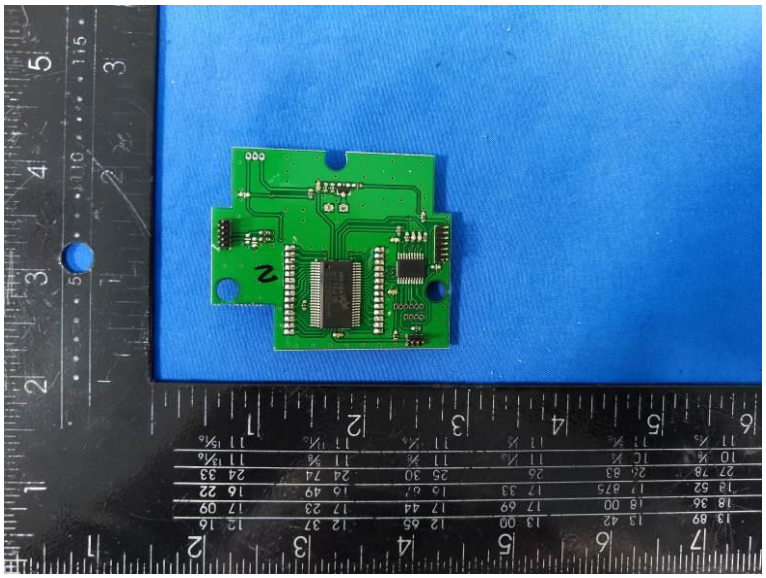

UHF

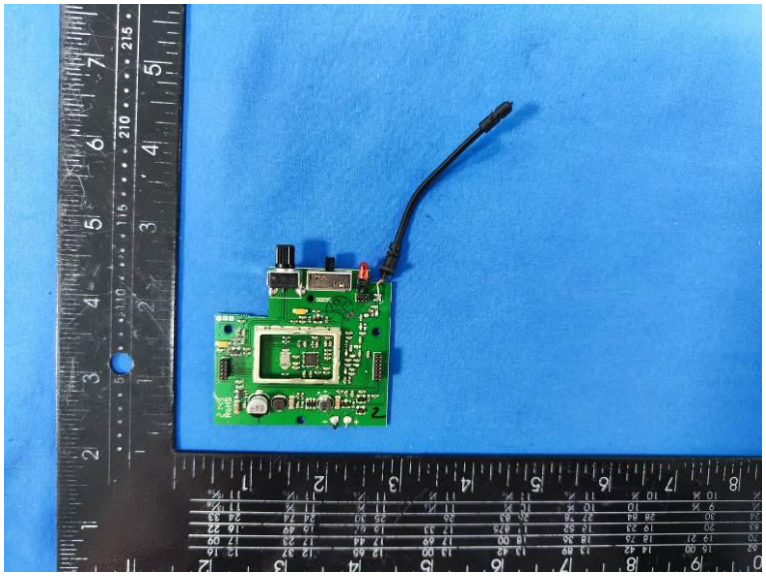

CH

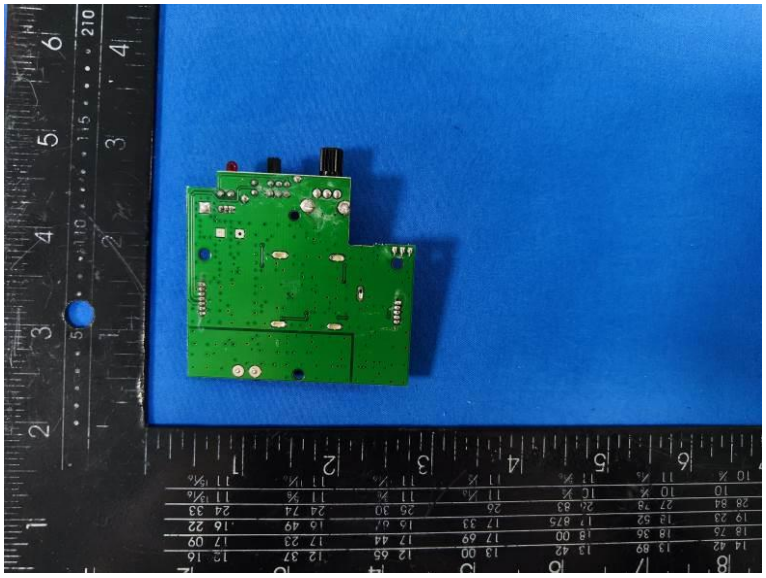



Antenna









.....End of Report.....