

TEST REPORT

Report No...... : **ATA0126090423**

FCC ID..... : **2BXOX-H10**

Applicant..... : Shenzhen Gandong IoT Technology Co., Ltd

Address..... : Room 401, Building 8, Xinghui Industrial City, No. 90 Yanluo Road,
Yanluo Subdistrict, Bao'an District, Shenzhen

Manufacturer..... : Shenzhen Gandong IoT Technology Co., Ltd

Address..... : Room 401, Building 8, Xinghui Industrial City, No. 90 Yanluo Road,
Yanluo Subdistrict, Bao'an District, Shenzhen

Product Name..... : **Music Player**

Trade Mark..... : HiiiMAN

Model/Type reference..... : H10

Listed Model(s)..... : H10 Pro, H10 Ultra, H20, H20 Pro, H20 Ultra, H30, H30 Pro, H30
Ultra, H50, H50 Pro, H50 Ultra, H60, H60 Pro, H60 Ultra

Standard..... : **FCC CFR Title 47 Part 15 Subpart C Section 15.407**

Test procedure..... : **ANSI C63.10-2020 + Cor.1-2023**
KDB 789033 D02 General UNII Test Procedures New Rules
v02r01

Date of Receipt..... : Sep. 16, 2026

Date of Test Date..... : Sep. 17, 2026~Sep. 21, 2026

Date of issue..... : Sep. 21, 2026

Test result..... : **Pass**

Compiled by:
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Lily Zheng

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(Printed name+signature)

Jason Chen



Testing Laboratory Name..... : **Shenzhen ATA Testing Lab. Inc**

Address..... : 4th Floor, Building 10, No. 60 Nanchang Road, Nanchang
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Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: Unlicensed National Information Infrastructure Devices

ANSI C63.10-2020 + Cor.1-2023: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	Sep. 21, 2026	Original



1.3. Test Description

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	N/A	
15.407(g)	Frequency Stability Measurement	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 2)

Note:(1)

(1) "N/A" denotes test is not applicable in this Test Report

(2) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails, the device will automatically stop sending and directly connect to the AP correctly again.

1.4. Test Facility

Test Site:	Shenzhen ATA Testing Lab. Inc
Test Site Location:	4th Floor, Building 10, No.60 Nanchang Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen City, China
Telephone:	+86 0755-2783-0095
Fax:	+86 0755-2783-0095
The Test Facility Is Recognized, Certified, Or Accredited By These Organizations:	A2LA Accreditation Lab Certificate Number: 839205
	FCC Accreditation Lab Designation Number: CN1455
	ISED Accreditation Lab Designation Number: CN0201
	CNAS Certificate Registration Number is L25904.



1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen ATA Testing Lab. Inc. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for Shenzhen ATA Testing Lab. Inc.

Test Items	Measurement Uncertainty	U(k=2)
Radiated Emissions 9K-30MHz	± 2.70 dB	1.96
Radiated Emissions 30~1000MHz	± 5.432 dB	1.96
Radiated Emissions 1~18GHz	± 3.88 dB	1.96
Radiated Emissions 18~40GHz	± 5.32 dB	1.96
Conducted Emissions 9kHz~150KHz	± 3.90 dB	1.96
Conducted Emissions 150Hz~30MHz	± 3.52 dB	1.96
Conducted spurious emissions	± 1.60 dB	1.96
RF Output Power Conducted	± 0.58 dB	1.96
Time Domain Measurements Using SA	3.39%	1.96
RF Frequency	± 12.75 Hz	1.96
Power Spectral Density Conducted	± 1.52 dB	1.96
Occupied Bandwidth	$\pm 0.463\%$	1.96
Humidity uncertainty	$\pm 2.0\%$ RH	1.96
Temperature uncertainty	$\pm 0.6^{\circ}\text{C}$	1.96
Barometric pressure uncertainty	0.5hPa	1.96

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

1.6. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050hPa

2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment	Music Player	
Trade Mark	HiiiMAN	
Model Name	H10	
Listed Model(s)	H10 Pro, H10 Ultra, H20, H20 Pro, H20 Ultra, H30, H30 Pro, H30 Ultra, H50, H50 Pro, H50 Ultra, H60, H60 Pro, H60 Ultra	
Model Difference	All the model are the same circuit and RF module, only the names and appearance colors are differen.	
Product Description	Mode Supported	☒ 802.11a ☒ 802.11n(HT20) ☒ 802.11n(HT40) ☒ 802.11ac(HT20) ☒ 802.11ac(HT40) ☒ 802.11ac(HT80)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
	Operating Frequency Range	☐ U-NII-1: 5150 MHz ~5250MHz ☐ U-NII-2A: 5250MHz~5350MHz ☐ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5825 MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Max Peak Output Power	7.38dBm
	Antenna Type	FPC antenna
	Antenna Gain	2.86dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Ratings	Input: DC 5V 2A	
Adapter	/	
Battery	3.85Vdc, 2000mAh, 7.7Wh	
Hardware version:	/	
Software version:	/	
Connecting I/O Port(s)	Please refer to the User's Manual	

2.2. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. 5GWIFI, were selected for testing.

Operation Frequency List:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				



2.3. DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was Evaluated respectively.

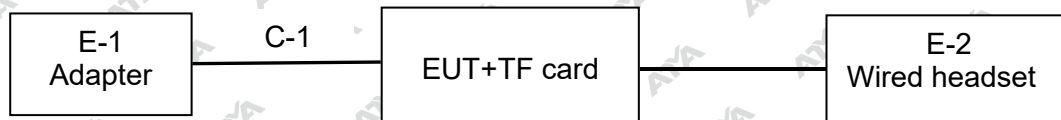
Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1
Power Spectral Density	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1
26 dB and 99% Emission Bandwidth	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1
Minimum 6 dB bandwidth	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1
Band Edge Emissions	11a/n(20)/ac(20)	6 Mbps/ MCS0	149/157/165	1
	11n(40)/ac(40)	MCS0	151/159	1
	11ac(80)	MCS0	155	1

Note:

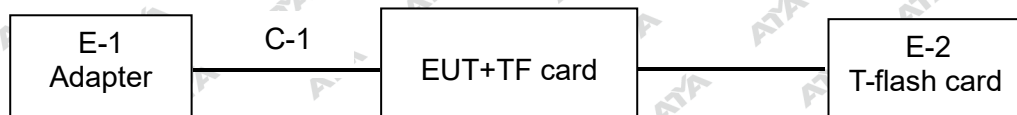
1. The measurements are performed at the highest, middle, lowest available channels.
2. During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.4. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

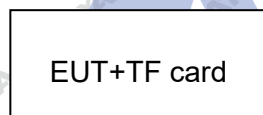
Radiated Spurious Emission Test



Conducted Emission Test



RF Conducted Test



2.5. DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test Configuration during the tests.

Item	Equipment	Mfr/Brand	Mode/Type	Note
E-1	Adapter	San gu	SG-0502000AU	Test use
E-2	Wired headset	/	/	Test use

Item	Equipment	Mfr/Brand	Length	Note
C-1	Type C Cable	/	1m	Test use

Note : (1) For detachable type IO cable should be specified the length in cm in Length a column.
(2)"YES" is means"with core";"NO" is means "without core".

2.6. Measurement Instruments List

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	ATA-E-001	966 chamber	CRT	9*6*6M	CRTNDCR 966	2025-03-21	2028-03-20
2	ATA-E-011	AC Power Source	XINOUHUA	APW-1300N	202504292 663	2026-05-07	2027-05-06
3	ATA-E-013	DC Power Source	XINOUHUA	ADC250-32 D	202504292 667	2026-05-07	2027-05-06
4	ATA-E-033	Receiver	R&S	ESPI7	100092	2026-05-07	2027-05-06
5	ATA-E-034	Broadband antenna	Schwarzbeck	VULB9168	01839	2026-07-17	2027-07-16
6	ATA-E-035	High Frequency Horn Antenna	Schwarzbeck	BBHA 9120D	03169	2026-07-17	2027-07-16
7	ATA-E-049	High Frequency Horn Antenna	ECHO	OBH100400	12221225	2026-05-07	2027-05-06
8	ATA-E-038	Cable	Times	0-18GHz	/	2026-05-07	2027-05-06
9	ATA-E-040	6dB attenuator	Zhengchang Liubo	6dB	/	2026-05-07	2027-05-06
10	ATA-E-039	Cable	Times	0-1GHz	/	2026-05-07	2027-05-06
11	ATA-E-052	Cable	HELPLIGHT	18-40GHz	/	2026-05-07	2027-05-06
12	ATA-E-041	Preamplifier	COM MV	DLNA8-1-18 G-2705	10241234	2026-05-07	2027-05-06
13	ATA-E-042	Preamplifier	COM MV	DLNA8-0.00 9-1000-103 4	5252881	2026-05-07	2027-05-06
14	ATA-E-050	Preamplifier	COM MV	DLAN-1800 0-40000-02	10229104	2026-05-07	2027-05-06
15	ATA-E-044	Filter	MWRFTesT	ZHPF6-C30 00-18000-3 129	08252098	2026-05-07	2027-05-06
16	ATA-E-045	Filter	MWRFTesT	ZHPF6-C65 00-18000-1 75	08252097	2026-05-07	2027-05-06
17	ATA-E-046	Filter	MWRFTesT	ZBSF6-C24 00-2483.5-5 43	08252096	2026-05-07	2027-05-06
18	ATA-E-047	Filter	MWRFTesT	ZBSF6-C51 00-5900-57 13	08252095	2026-05-07	2027-05-06
19	ATA-E-051	Spectrum Analyzer	R&S	FSV40-N	101779	2026-07-28	2027-07-27
20	ATA-E-052	Cable	HELPLIGHT	2.92J/2.92J 10M	/	2026-01-19	2027-01-18
21	ATA-E-054	Cable	HELPLIGHT	2.92J/2.92J 0.8M	/	2026-01-19	2027-01-18
22	ATA-E-059	Antenna Tower	CRT	AT-1	/	/	/
23	ATA-E-005	Temperature and humidity meter	deli	LE502-WH	/	2026-05-07	2027-05-06
24	ATA-E-064	Barometer	Qingping	CGP23W	/	2026-01-28	2027-01-27
25	ATA-E-048	Loop Antenna	ZHINA	ZN30900C	21104CCU TSE019	2026-05-07	2027-05-06

Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	ATA-E-032	EMI TEST RECEIVER	Schwarzbeck	ESC13	1009300	2026-05-07	2027-05-06
2	ATA-E-037	Pulse Limiter	Schwarzbeck	VTSD 9561 F-N	/	2026-05-07	2027-05-06
3	ATA-E-069	Conductive test cable	Schwarzbeck	2.5m	N/A	2026-01-28	2027-01-27
4	ATA-E-036	Artificial Mains Network	Schwarzbeck	NSLK 8127	01169	2026-05-07	2027-05-06
5	ATA-E-072	Three-Line V-Network	ZHINAN	2N33770A	13003	2026-01-28	2027-01-27
6	ATA-E-009	Temperature and humidity meter	deli	LE502-WH	/	2026-05-07	2027-05-06
7	ATA-E-010	Barometer	Qingping	CGP23W	/	2026-05-07	2027-05-06

RF Conducted Test							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
	ATA-E-029	Spectrum Analyzer	Keysight	N9020A	MY50530404	2026-05-07	2027-05-06
1	ATA-E-030	MXG Analog Signal Generator	Agilent	N5181A	MY47420598	2026-05-07	2027-05-06
2	ATA-E-031	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	161163	2026-05-07	2027-05-06
3	ATA-E-043	Radio Control Unit	MWRFTest	MW100-RFCB	MW250428A TA-55	2026-05-07	2027-05-06

Note:

1)The Cal. Interval was one year.

2)The cable loss has calculated in test result which connection between each test instruments.

2.7. Test Software

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	FARAD-3A1.1+
Radiated emission Measurement Software	EZ-EMC	FARAD-3A1.1+
Bluetooth and WIFI Test System	MWRF8310	2.0.0.0



3. TEST ITEM AND RESULTS

3.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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 maximum gain of antenna was 2.86 dBi. The EUT antenna is permanent attached FPC antenna. It comply with the standard requirement.



3.2. Conducted Emission

Limit

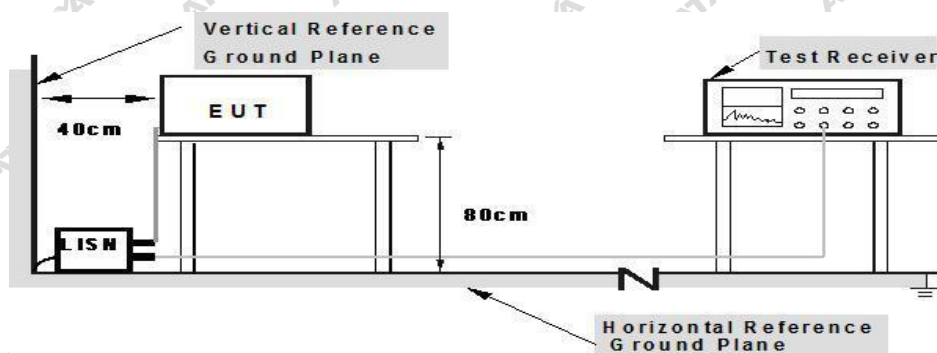
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

Test Procedure

1. The EUT was setup according to ANSI C63.10:2020+ Cor.1-2023 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.8m above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode:

Please refer to the clause 2.3.

Test Results

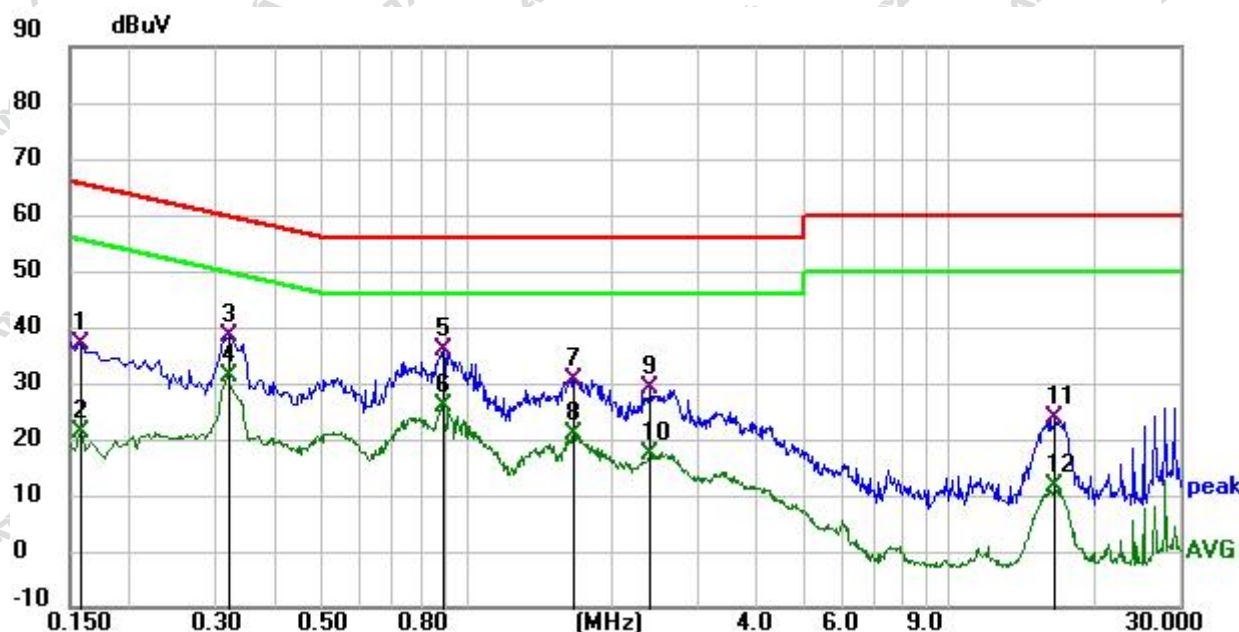
EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	L
Temperature	26°C	Humidity	54%
Test Mode:	Normal Link	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	34.38	10.11	44.49	66.00	-21.51	QP
2	0.1500	14.00	10.11	24.11	56.00	-31.89	AVG
3	0.3420	29.68	10.11	39.79	59.15	-19.36	QP
4	0.3420	16.91	10.11	27.02	49.15	-22.13	AVG
5	0.6180	26.95	10.15	37.10	56.00	-18.90	QP
6	0.6180	12.19	10.15	22.34	46.00	-23.66	AVG
7 *	0.9940	28.51	10.13	38.64	56.00	-17.36	QP
8	0.9940	11.09	10.13	21.22	46.00	-24.78	AVG
9	1.7940	22.65	10.18	32.83	56.00	-23.17	QP
10	1.7940	6.44	10.18	16.62	46.00	-29.38	AVG
11	2.6660	22.26	10.20	32.46	56.00	-23.54	QP
12	2.6660	5.36	10.20	15.56	46.00	-30.44	AVG

Remark: 1. All readings are Quasi-Peak and Average values
 2. Margin = Result (Result = Reading + Factor) - Limit
 3. Factor = LISN factor + Cable loss + Limiter (10dB)

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	N
Temperature	26°C	Humidity	54%
Test Mode:	Normal Link	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	26.95	10.11	37.06	65.57	-28.51	QP
2	0.1580	11.13	10.11	21.24	55.57	-34.33	AVG
3	0.3220	28.32	10.11	38.43	59.66	-21.23	QP
4 *	0.3220	21.02	10.11	31.13	49.66	-18.53	AVG
5	0.8980	25.64	10.14	35.78	56.00	-20.22	QP
6	0.8980	15.89	10.14	26.03	46.00	-19.97	AVG
7	1.6700	20.54	10.17	30.71	56.00	-25.29	QP
8	1.6700	10.75	10.17	20.92	46.00	-25.08	AVG
9	2.4020	18.76	10.19	28.95	56.00	-27.05	QP
10	2.4020	7.19	10.19	17.38	46.00	-28.62	AVG
11	16.6220	13.55	10.34	23.89	60.00	-36.11	QP
12	16.6220	1.11	10.34	11.45	50.00	-38.55	AVG

Remark: 1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) - Limit
3. Factor = LISN factor + Cable loss + Limiter (10dB)

3.3. Band edge and Spurious Emission (conducted)

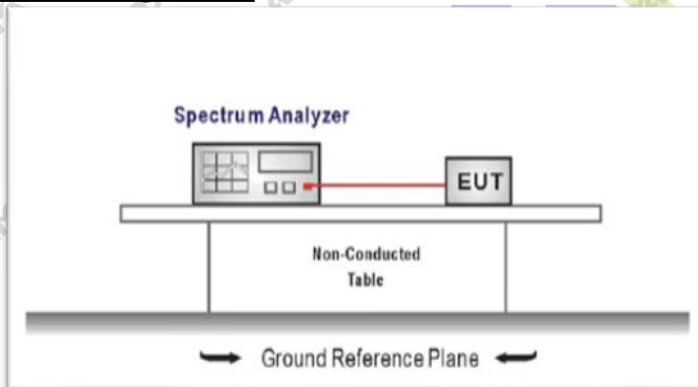
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.407 (b):

Undesirable emission limits. Except as shown in paragraph (b)(10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Configuration



Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Mode

Please refer to the clause 2.3.

Test Results

Test data reference attachment C.

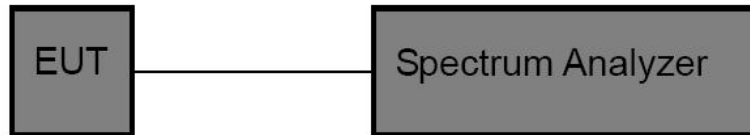


3.4. 6dB Bandwidth

Limit

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Configuration



Test Procedure

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- 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.

Test Mode

Please refer to the clause 2.3.

Test Results

Test data reference attachment C.

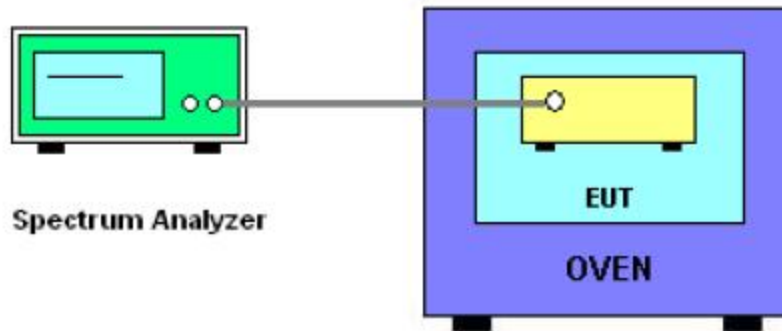
3.5. Frequency Stability Measurement

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

Test Configuration



Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

Test Mode

Please refer to the clause 2.3.

Test Results

EUT :	Music Player	Model Name. :	H10
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 5V from adapter AC 120V 60Hz
Test Mode :	TX Frequency(5745-5850MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	5.00	5745.00290	5745	0.00290	-0.5050
		V max (V)	5.75	5745.00655	5745	0.00655	-1.1404
		V min (V)	4.25	5745.00973	5745	0.00973	-1.6943
Limits				± 20 ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	5	T (°C)	-20	5745.00618	5745	0.00618	-1.0751
		T (°C)	-10	5745.00756	5745	0.00756	-1.3167
		T (°C)	0	5745.00275	5745	0.00275	-0.4789
		T (°C)	10	5745.00277	5745	0.00277	-0.4824
		T (°C)	20	5745.00386	5745	0.00386	-0.6724
		T (°C)	30	5745.00174	5745	0.00174	-0.3030
		T (°C)	40	5745.00658	5745	0.00658	-1.1458
		T (°C)	50	5745.00264	5745	0.00264	-0.4603
		T (°C)	60	5745.00181	5745	0.00181	-0.3142
		T (°C)	70	5745.01070	5745	0.01070	-1.8621
Limits				± 20 ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	5.00	5825.01190	5825	0.01190	-2.0433
		V max (V)	5.75	5825.00126	5825	0.00126	-0.2156
		V min (V)	4.25	5825.00874	5825	0.00874	-1.5005
Limits				± 20 ppm			
Result				Complies			

Temperature vs. Frequency Stability

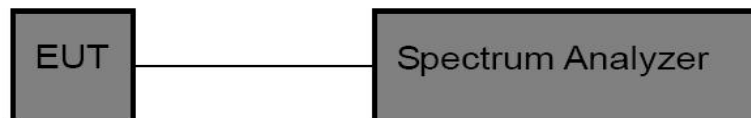
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	5	T (°C)	-20	5825.00300	5825	0.00300	-0.5154
		T (°C)	-10	5825.01272	5825	0.01272	-2.1845
		T (°C)	0	5825.00143	5825	0.00143	-0.2452
		T (°C)	10	5825.00223	5825	0.00223	-0.3832
		T (°C)	20	5825.00534	5825	0.00534	-0.9175
		T (°C)	30	5825.00666	5825	0.00666	-1.1442
		T (°C)	40	5825.00647	5825	0.00647	-1.1099
		T (°C)	50	5825.01013	5825	0.01013	-1.7386
		T (°C)	60	5825.00189	5825	0.00189	-0.3252
		T (°C)	70	5825.00923	5825	0.00923	-1.5844
Limits				± 20 ppm			
Result				Complies			

3.6. 26dB & 99% Emission Bandwidth

Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Test Configuration



Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Test Mode

Please refer to the clause 2.3.

Test Results

Test data reference attachment C.



3.7.Maximum Conducted Output Power

Limit

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

The maximum e.i.r.p should not exceed:

Frequency Band(MHz)	Limit
5150~5250	200mW or 10dBm +10logB whichever is less
5725~5850	N/A

Note: Where "B" is the 99% emission bandwidth in MHz

Test Configuration



Test Procedure

Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Test Mode

Please refer to the clause 2.3.

Test Result

Test data reference attachment C.

3.8. Power Spectral Density

Limit

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

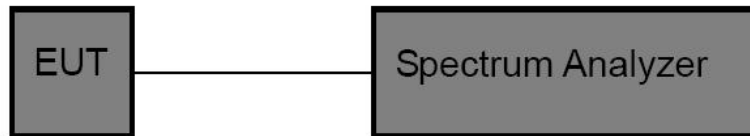
- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

- (3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

Test Mode

Please refer to the clause 2.3.

Test Result

Test data reference attachment C.

3.9.Maximum Conducted Output Power

Limit

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

The maximum e.i.r.p should not exceed:

Frequency Band(MHz)	Limit
5150~5250	200mW or 10dBm +10logB whichever is less
5725~5850	N/A

Note: Where “B” is the 99% emission bandwidth in MHz

Test Configuration



Test Procedure

Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no dutycycle correction factor is required.

Test Mode

Please refer to the clause 2.3.

Test Result

Test data reference attachment C.

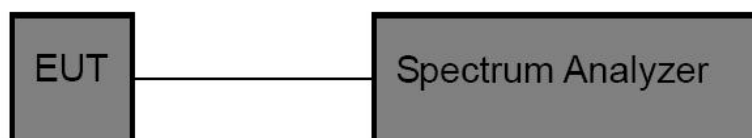
3.10.Out of Band Emissions(Conducted)

Limit

According to FCC §15.407(b)

1. Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
2. (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. (2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Test Configuration



Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete

Test Mode

Please refer to the clause 2.3.

Test Results

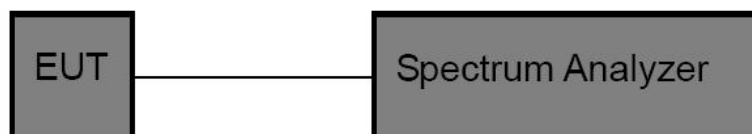
Test data reference attachment C.

3.11.Spurious RF Conducted Emissions

Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

Test Configuration



Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 + Cor.1-2023 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and mwasure frequency range from 9KHz to 40GHz.

Test Mode

Please refer to the clause 2.3.

Test Results

Test data reference attachment C.

3.12.Spurious Emission (Radiated)

Limit

According to FCC Part 15.407(b) and 15.209&15.205

According to FCC Part 15.407(b)(9)(10) : 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)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

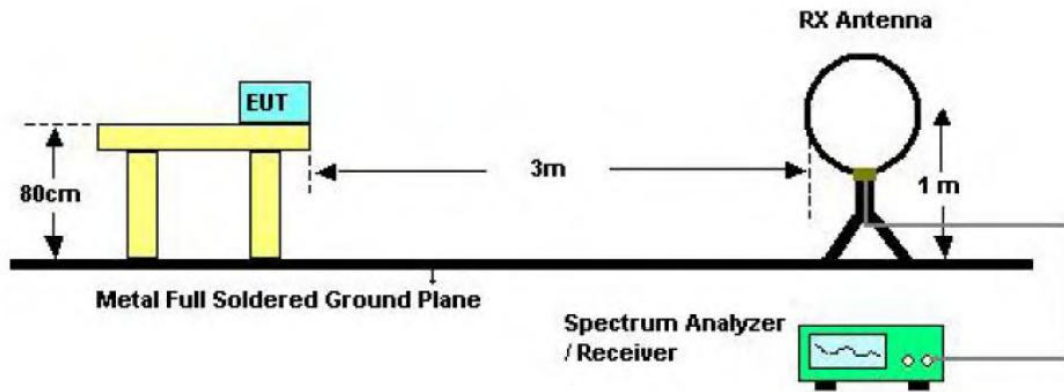
Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

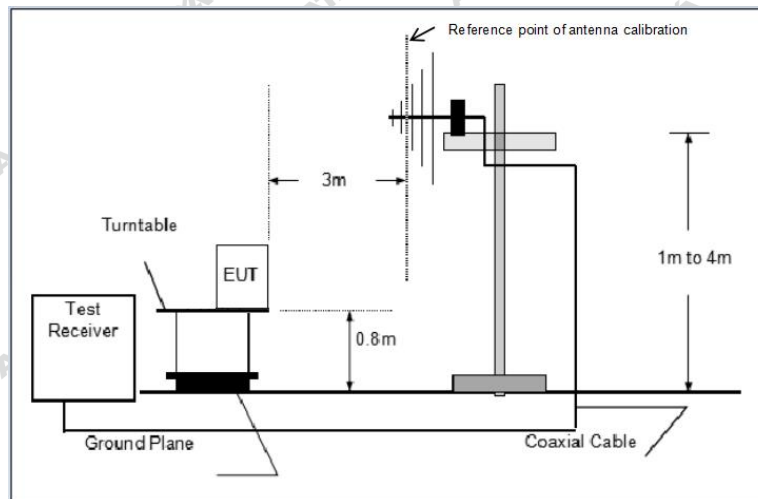
Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

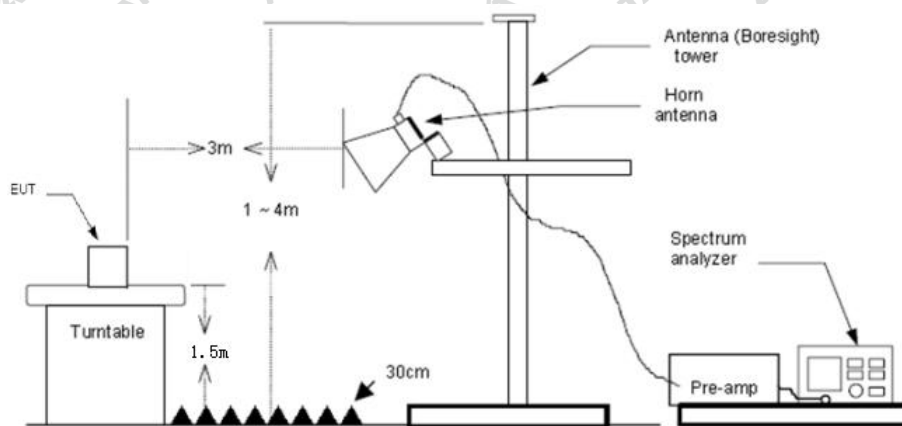
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020 + Cor.1-2023. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor.1-2023 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the 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 Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

Test Mode

Please refer to the clause 2.3.

Test Result**9 KHz~30 MHz**

From 9 KHz~30 MHz : Conclusion: PASS

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	H/V
Temperature	24.8℃	Humidity	52.1%
Test Mode:	Normal Link	Test Voltage:	DC 5V from adapter AC 120V 60Hz

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	--
--	--	--	--	--

Note:

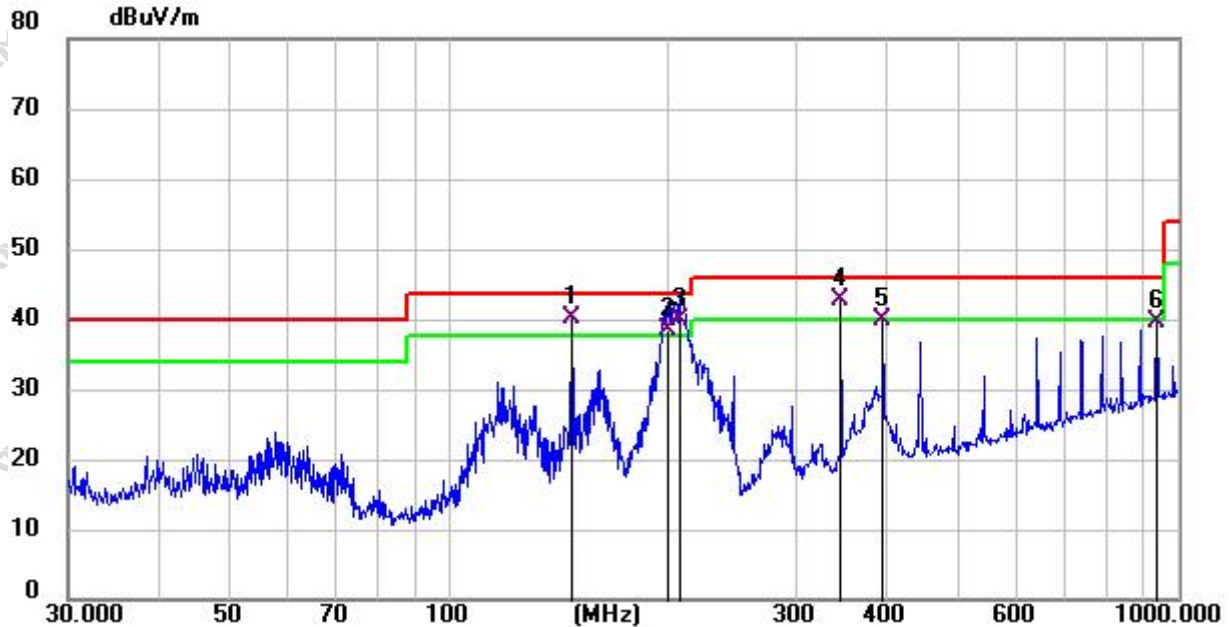
1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})(\text{dB})$;
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

Note:

- 1) Measurement = Reading level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Preamplifier Factor
- 2) The peak level is lower than average limit (54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Results of Radiated Emissions (30MHz~ 1000MHz)

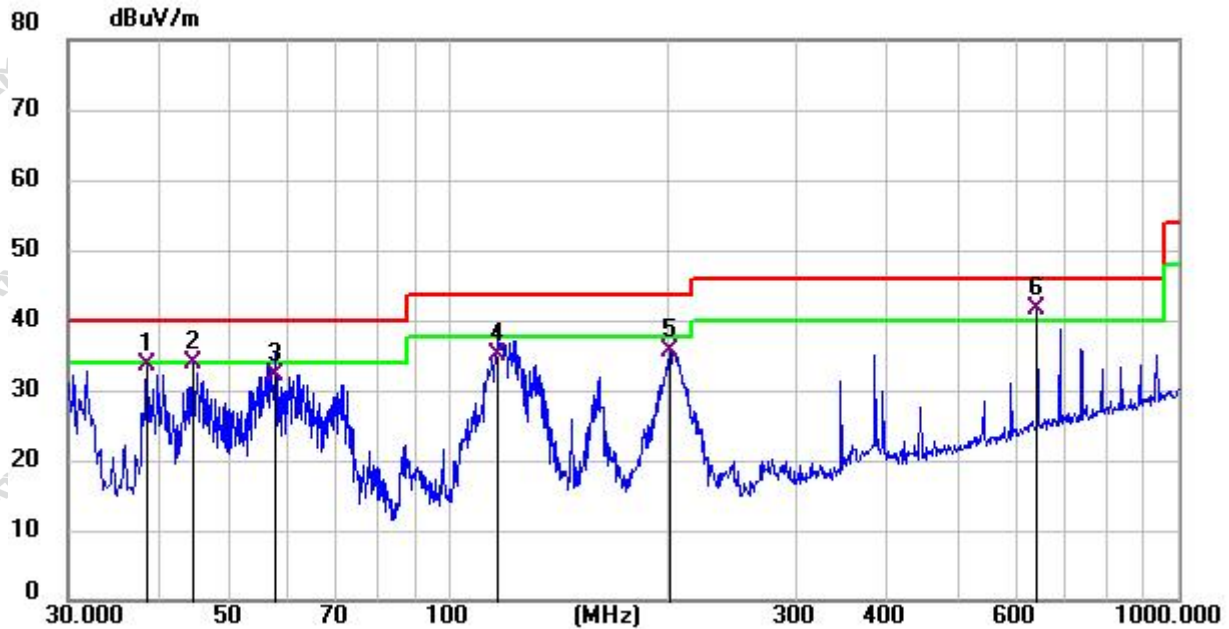
EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26℃	Humidity	54%
Test Mode:	Normal Link	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	147.4036	51.75	-11.65	40.10	43.50	-3.40	QP
2 !	199.2855	53.84	-15.34	38.50	43.50	-5.00	QP
3 !	207.8501	54.90	-15.10	39.80	43.50	-3.70	QP
4 *	344.3855	53.17	-10.37	42.80	46.00	-3.20	QP
5	393.4723	49.19	-9.22	39.97	46.00	-6.03	QP
6	935.5463	39.27	0.43	39.70	46.00	-6.30	QP

Emission Level= Read Level+ Correct Factor

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	Normal Link	Test Voltage:	DC 5V from adapter AC 120V 60Hz

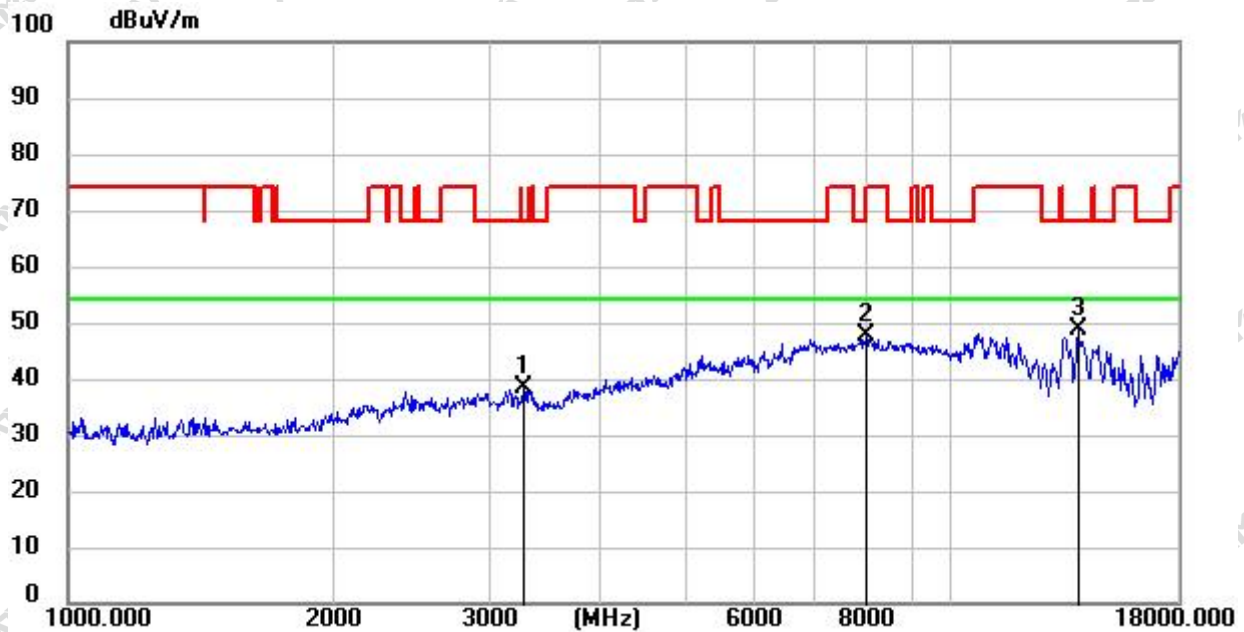


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4810	46.44	-12.76	33.68	40.00	-6.32	QP
2	44.4307	46.88	-12.94	33.94	40.00	-6.06	QP
3	57.7962	45.74	-13.54	32.20	40.00	-7.80	QP
4	116.9494	49.04	-13.94	35.10	43.50	-8.40	QP
5	200.6880	51.02	-15.33	35.69	43.50	-7.81	QP
6 *	640.6110	45.24	-3.74	41.50	46.00	-4.50	QP

Emission Level= Read Level+ Correct Factor

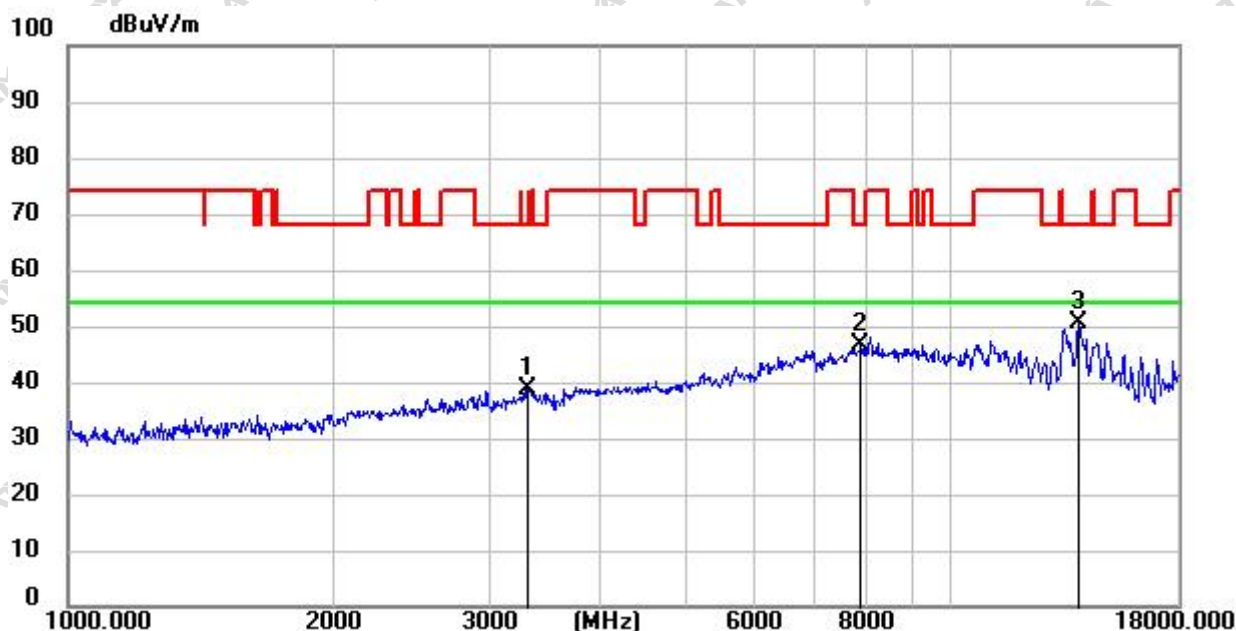
Spurious Emission (1GHz-40GHz)

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26℃	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



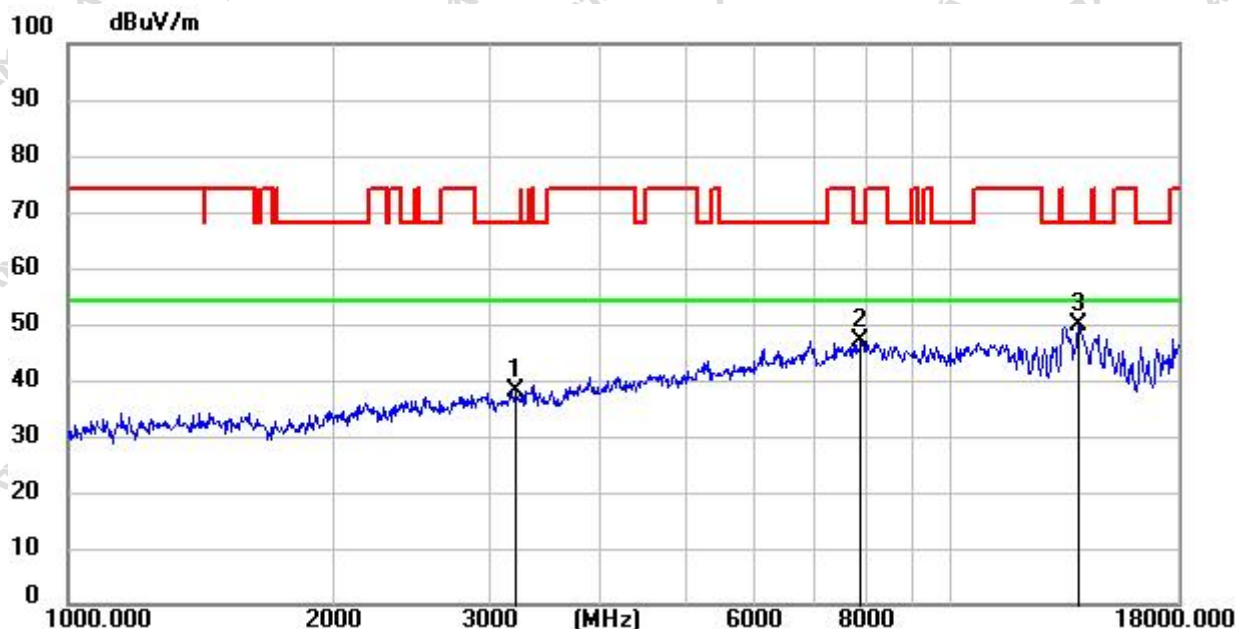
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3270.8582	58.87	-20.54	38.33	68.20	-29.87	peak
2	8013.0195	58.83	-11.08	47.75	68.20	-20.45	peak
3 *	13877.0763	53.70	-4.97	48.73	68.20	-19.47	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



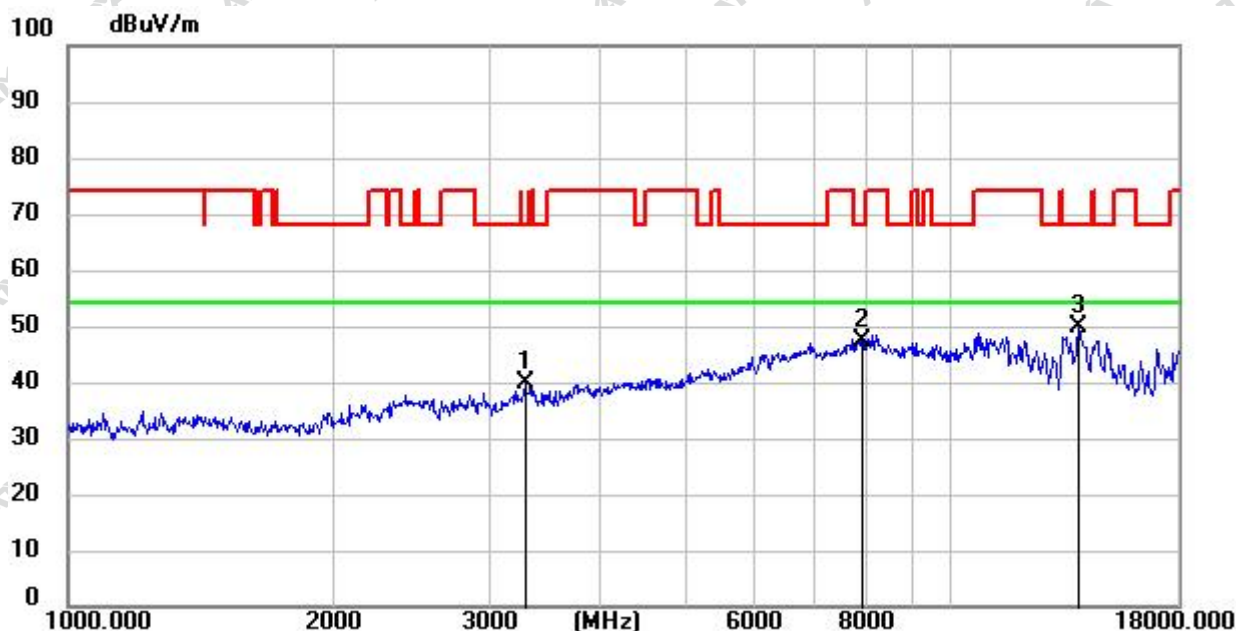
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3308.8937	58.94	-20.07	38.87	68.20	-29.33	peak
2	7875.2540	57.72	-11.04	46.68	68.20	-21.52	peak
3 *	13917.2443	55.34	-4.95	50.39	68.20	-17.81	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



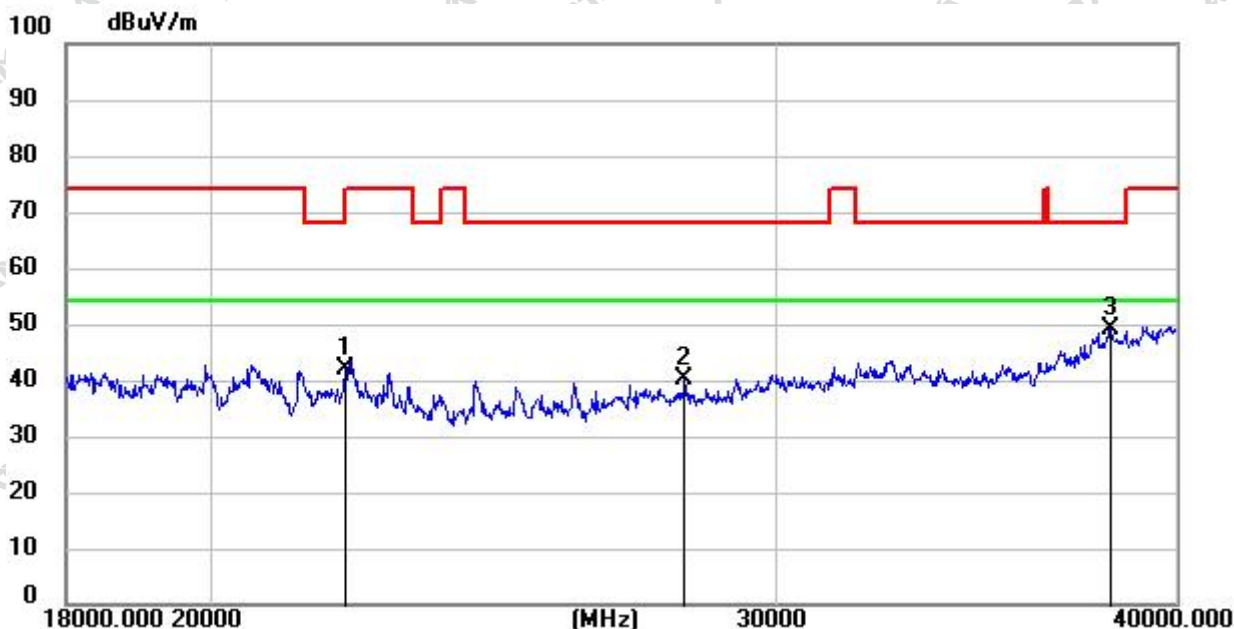
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3214.6233	58.82	-20.65	38.17	68.20	-30.03	peak
2	7875.2540	58.06	-11.04	47.02	68.20	-21.18	peak
3 *	13877.0763	54.75	-4.97	49.78	68.20	-18.42	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



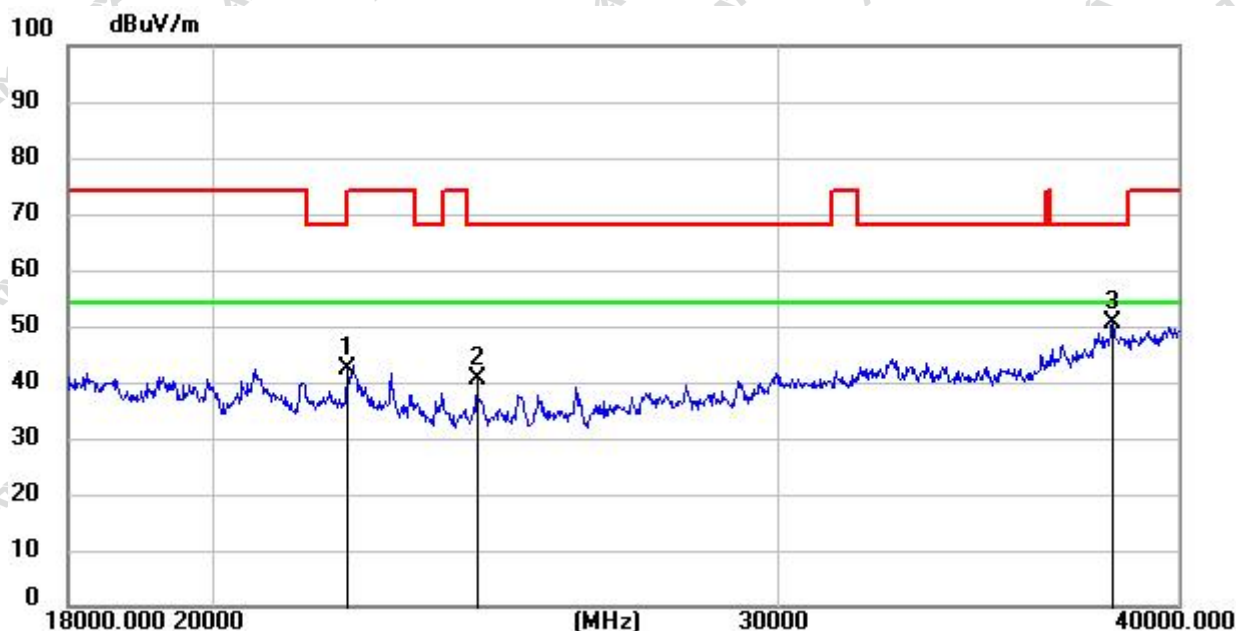
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3289.8210	60.03	-20.24	39.79	68.20	-28.41	peak
2	7898.0492	58.33	-11.00	47.33	68.20	-20.87	peak
3 *	13877.0763	54.62	-4.97	49.65	68.20	-18.55	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



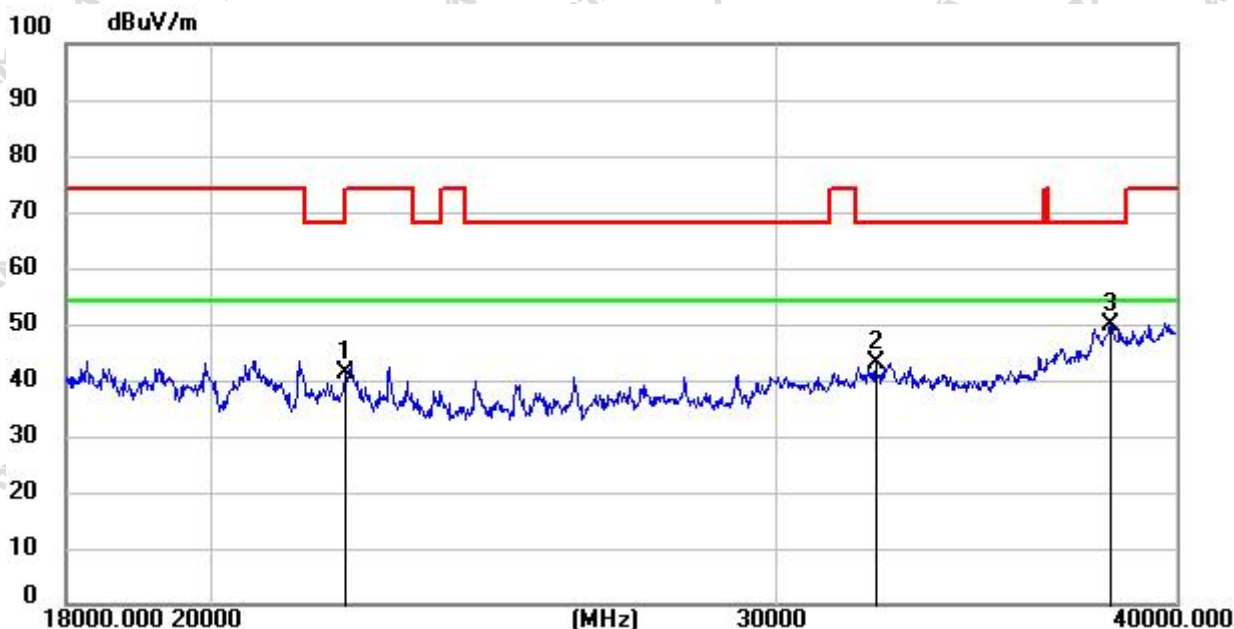
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21994.6047	42.48	-0.38	42.10	68.20	-26.10	peak
2	28082.3296	38.00	2.15	40.15	68.20	-28.05	peak
3 *	38159.2235	37.06	12.01	49.07	68.20	-19.13	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



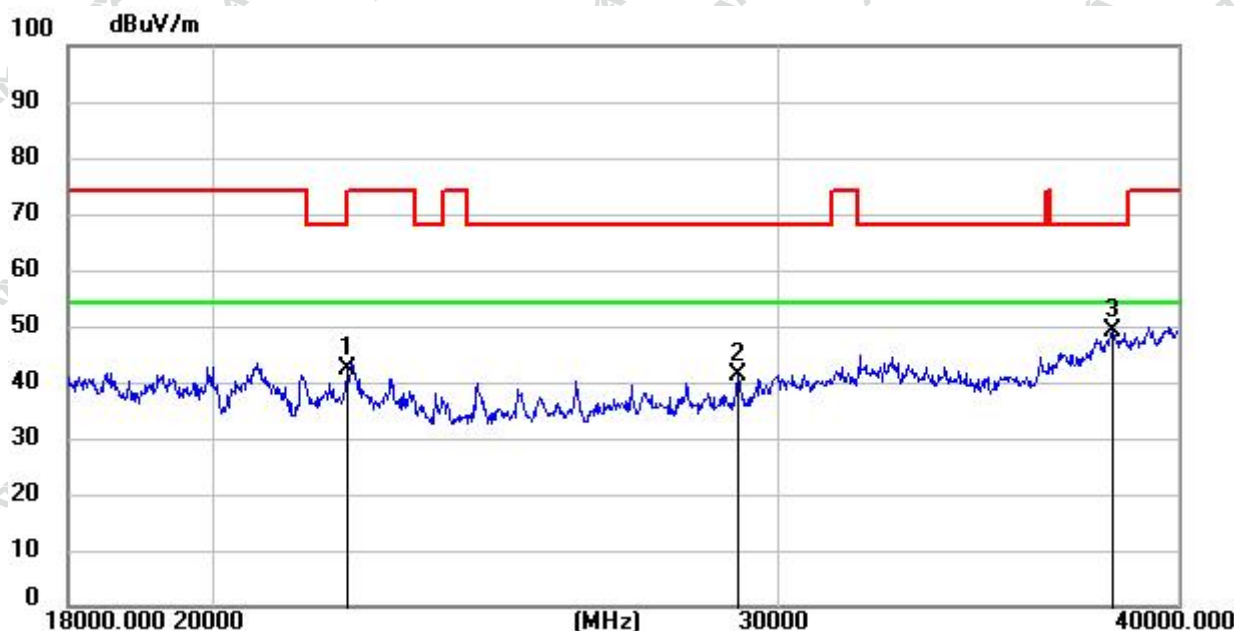
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21994.6047	42.76	-0.38	42.38	68.20	-25.82	peak
2	24167.7982	41.06	-0.60	40.46	68.20	-27.74	peak
3 *	38159.2235	38.68	12.01	50.69	68.20	-17.51	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21994.6047	41.80	-0.38	41.42	68.20	-26.78	peak
2	32242.4006	36.24	6.89	43.13	68.20	-25.07	peak
3 *	38159.2235	37.72	12.01	49.73	68.20	-18.47	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26℃	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21994.6047	42.65	-0.38	42.27	68.20	-25.93	peak
2	29133.0100	38.86	2.56	41.42	68.20	-26.78	peak
3 *	38189.7061	37.19	11.99	49.18	68.20	-19.02	peak

Note:

All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.

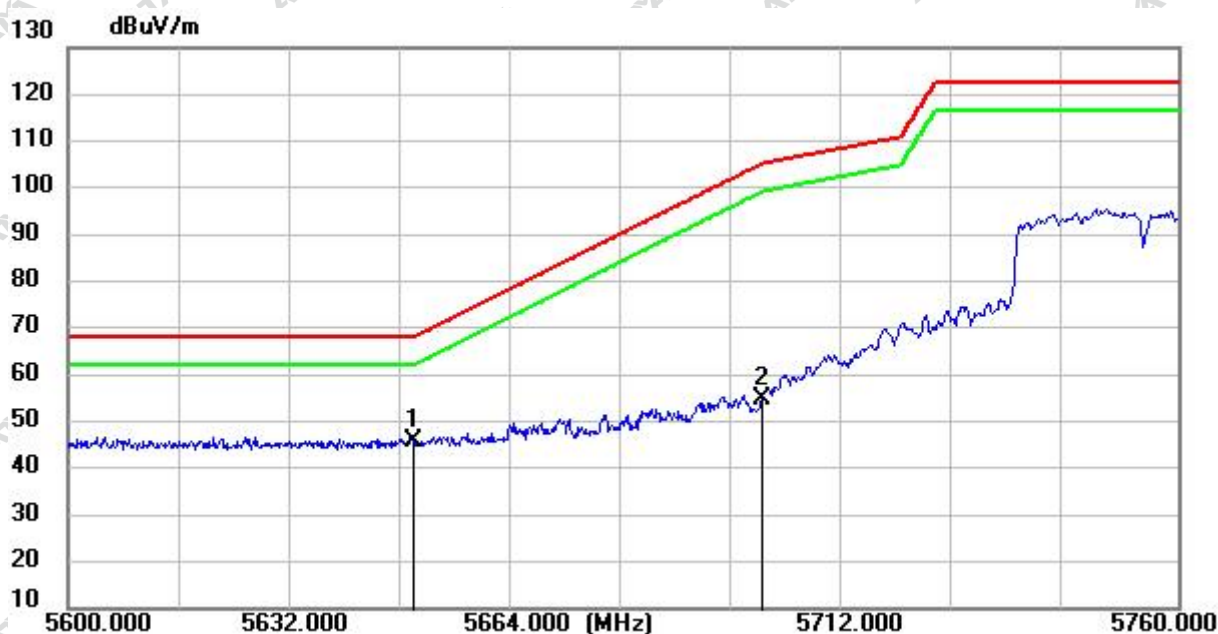
All the modulation modes have been tested, and only the worst results are reflected in the report.

(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

(3) "802.11ac40" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

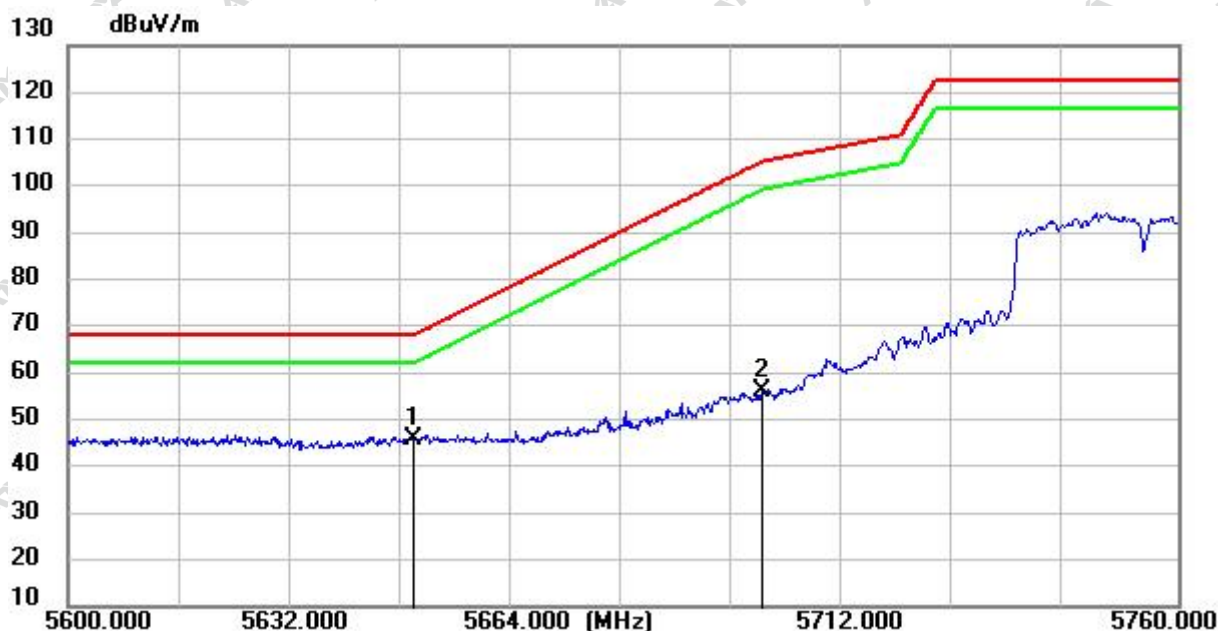
Band Edge Emissions(Radiated)

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26℃	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



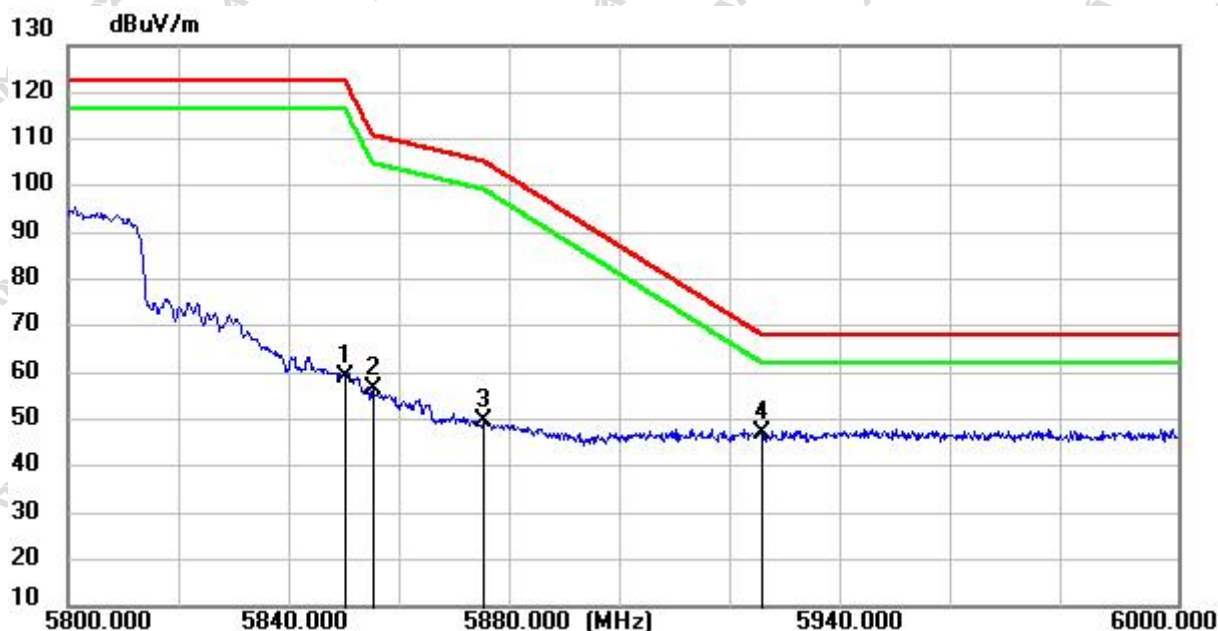
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.0000	59.31	-13.54	45.77	68.20	-22.43	peak
2	5700.0000	68.01	-13.32	54.69	105.20	-50.51	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5755MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



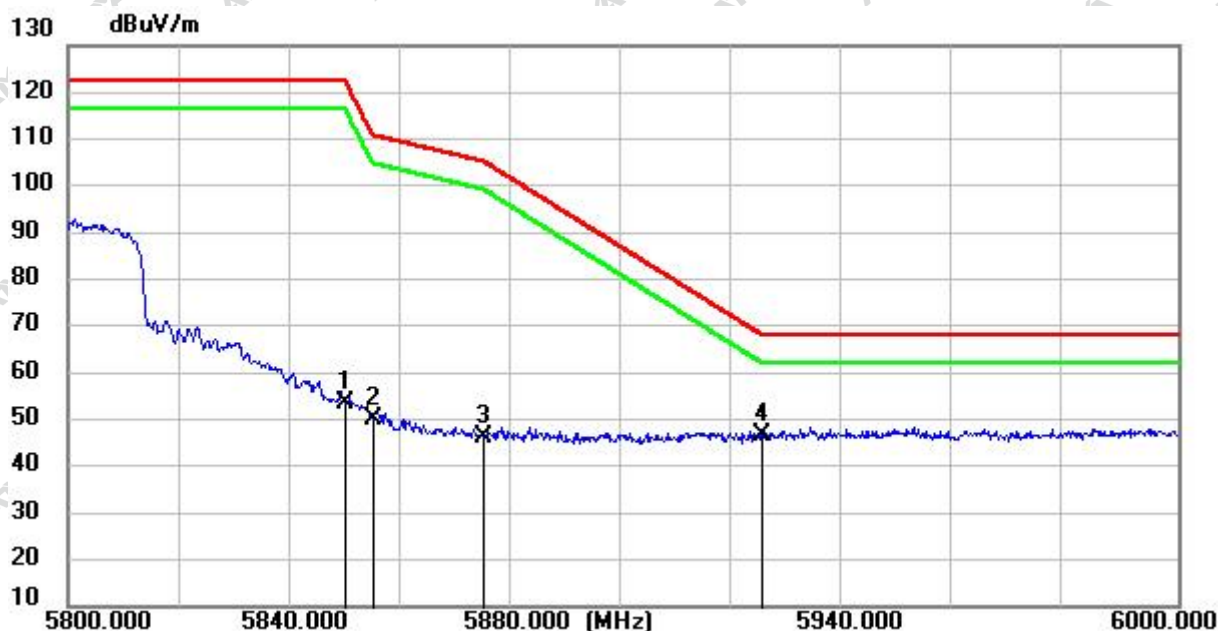
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.0000	59.18	-13.54	45.64	68.20	-22.56	peak
2	5700.0000	69.45	-13.32	56.13	105.20	-49.07	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Horizontal
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.0000	72.13	-12.86	59.27	122.50	-63.23	peak
2	5855.0000	69.29	-12.84	56.45	110.80	-54.35	peak
3	5875.0000	62.18	-12.75	49.43	105.20	-55.77	peak
4 *	5925.0000	59.71	-12.63	47.08	68.20	-21.12	peak

EUT:	Music Player	Model Name:	H10
Pressure:	1010 hPa	Phase:	Vertical
Temperature	26°C	Humidity	54%
Test Mode:	11ac40 5795MHz TX	Test Voltage:	DC 5V from adapter AC 120V 60Hz



Note:

- (1) All the modulation modes have been tested, The report just record the worst data mode.
- (2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
- (3) "802.11ac40" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

4. EUT TEST PHOTOS

Note: Refer to the attached test photos

5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Note: Refer to the attached exterior and interior photos



*****THE END*****