

# **Test Report**

Applicant	:	Dongguan Hele Electronics Co.,Ltd
Address	:	No.325 Yuehui Rd. Daojiao Town Dongguan City
		Guangdong Province China
Product Name	:	TWS bluetooth earbuds
Brand Mark	:	QCY
Model	:	BH24HT08A
Series model	:	N/A
Report Number	:	BLA-EMC-202408-A1002
FCC ID	:	RDR-BH24HT08AL
Date of Receipt	:	2024.08.07
Date of Test	:	2024.08.07to 2024.08.20
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Compiled by: charlie Review by: Sweets



### BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China



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### **Revise Record**

Version No.	Date	Description
01	2024.08.20	Original

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#### **General information** 1

#### 1.1 General information

Applicant	Dongguan Hele Electronics Co.,Ltd
Address	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province
Address	China
Manufacturer	Dongguan Hele Electronics Co.,Ltd
A daha a a	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province
Address	China
Factory	N/A
Address	N/A
1.2 General desc	ription of EUT

### 1.2 General description of EUT

Product Name	TWS bluetooth earbuds				
Model No.	BH24HT08A				
Series model	N/A				
Differences of Series model	N/A				
Operation Frequency:	2402MHz-2480MHz				
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK				
Channel Spacing:	1MHz				
Number of Channels:	79				
Antenna Type:	internal antenna				
Antenna Gain:	-0.69dBi(Provided by customer)				
Power supply or adapter information	Battery:DC3.85V				
Hardware Version	V1				
Software Version	V1				
Engineer sample no	BLA-EMC-202408-A10				
Note: For a more detailed	description, please refer to Specification or User's Manual supplied by				
the explicant and/or many	the applicant and/or manufacturor				

the applicant and/or manufacturer.

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### 2 Test summary

No.	Test item	Result	Remark
1	Antenna Requirement	Pass	
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	Pass	
3	Conducted Peak Output Power	Pass	
4	20dB Bandwidth	Pass	
5	Conducted Band Edges Measurement	Pass	
6	Conducted Spurious Emissions	Pass	
7	Carrier Frequencies Separation	Pass	
8	Hopping Channel Number	Pass	
9	Dwell Time	Pass	
10	Radiated Spurious Emissions	Pass	
11	Radiated Emissions which fall in the restricted bands	Pass	

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### 3 Test Configuration

#### 3.1 Test mode

Test Mode Note 1	Description			
ТХ	Keep the EUT in continuously transmitting mode with modulation. (hopping and			
	non-hopping mode all have been tested)			
RX	Keep the EUT in receiving mode			
TX Low channel	Keep the EUT in continuously transmitting mode in low channel			
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel			
TX high channel	Keep the EUT in continuously transmitting mode in high channel			

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use

### 3.2 Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz

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19 2421MHz 39 2441MHz 33.3 Test channel				59 2461MHz			
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz

### 3.3 Test channel

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

### 3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark				
DO	Lanava			From lab				
PC	Lenovo	E460C	N/A	(No.BLA-ZC-BS-2022005)				
Note:								
"" mean no any auxiliary device during testing.								

#### 3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 3.85V

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### 4 Laboratory information

#### 4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

### 4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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### 5 Test equipment

Equipment No.	Equipment Name	Model No.	Manufacture	S/N	Cal. Date	Next Cal. Date
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-009	EMI Receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-010	EMI Receiver	ESPI3	R&S	101082	2024/08/08	2025/08/07
BLA-EMC-011	LISN	ENV216	R&S	101372	2024/08/08	2025/08/07
BLA-EMC-012	broad band Antenna	VULB9168	Schwarz beck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarz beck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2024/08/08	2025/08/07
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2024/06/28	2025/06/27
BLA-EMC-028	Spectrum	N9020A	Agilent	MY53420839	2024/08/08	2025/08/07
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2024/08/08	2025/08/07
BLA-EMC-041	LISN	AT166-2	ANTAIXIN	AKK1806000003	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14100889SN042	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenna	FMZB1519B	SCHNARZBECK	00102	2024/06/29	2026/06/28
BLA-EMC-044	Wideband radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-045	Impedance stable network	ISNT8-cat6	TESEQ	53580	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2024/08/08	2025/08/07
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarz beck	1106	2024/06/29	2026/06/28
BLA-EMC-089	Electric and Magnetic Field Analyzer	EHP-200A	Narda	180ZX11016	2024/06/29	2025/06/28
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarz beck	01045	2024/06/28	2025/06/27
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarz beck	01075	2024/06/28	2025/06/27

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#### Test software

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF
BLA-EMC-S011	EHP200A	Narda	Rel 1.94	RF expose
BLA-EMC-S012	RTSB-A	CTTL	V3.2.4	BQB
BLA-EMC-S013	RTSB-A	CTTL	V3.2.4	BQB

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### 6 Test result

#### 6.1 Antenna requirement

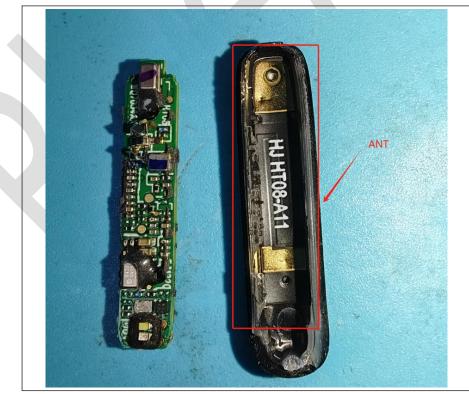
Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	N/A			

#### 6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### EUT antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.69 dBi.



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### 6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

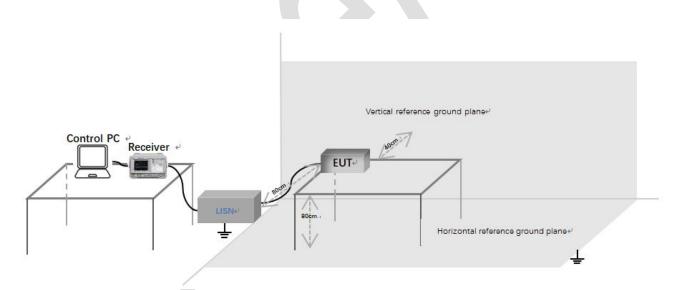
Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 6.2		
Test Mode (Pre-Scan)	ТХ		
Test Mode (Final Test)	ТХ		

#### 6.2.1 Limit

	Conducted limit(dBµV)				
Frequency of emission(MHz)	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.

#### 6.2.2 Test setup



#### Description of test setup connection:

- a) Connect the control PC to the receiver through a USB to GPIB cable;
- b) The receiver is connected to the LISN through a coaxial line;
- c) Connect the power port of LISN to the EUT.

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#### 6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

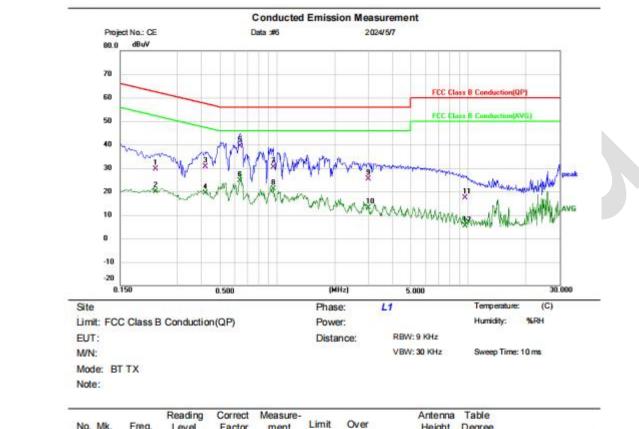
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#### 6.2.4 Test data

[Test mode: TX]; [Line: Line]; [Power:AC120V/60Hz]



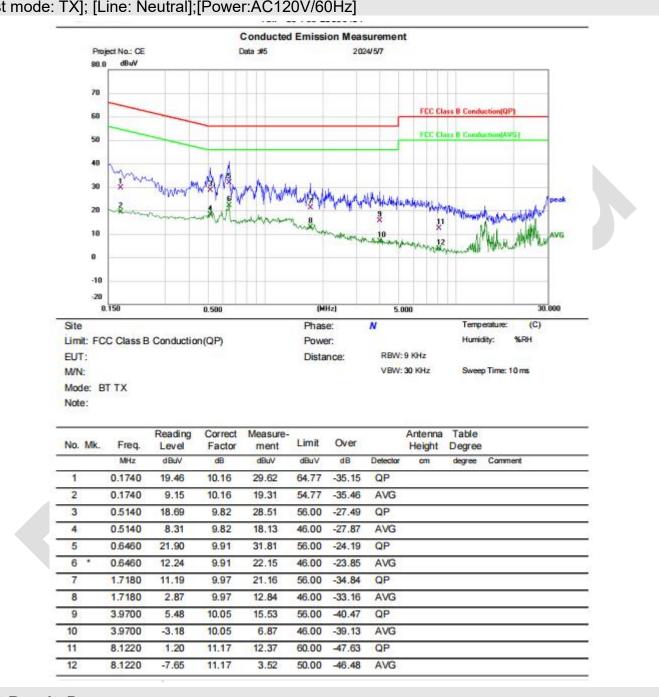
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit .	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.2292	19.10	10.46	29.56	62.48	-32.92	QP			
2		0.2292	9.68	10.46	20.14	52.48	-32.34	AVG			
3		0.4180	20.60	9.96	30.56	57.49	-26.93	QP			
4		0.4180	9.41	9.96	19.37	47.49	-28.12	AVG			
5	•	0.6340	29.40	9.95	39.35	56.00	-16.65	QP			
6		0.6340	14.57	9.95	24.52	46.00	-21.48	AVG			
7	1	0.9500	20.49	9.85	30.34	56.00	-25.66	QP			
8		0.9500	11.18	9.85	21.03	46.00	-24.97	AVG			
9		2.9940	15.33	10.07	25.40	56.00	-30.60	QP			
10		2.9940	2.95	10.07	13.02	46.00	-32.98	AVG			
11		9.6140	5.85	11.44	17.29	60.00	-42.71	QP			
12		9.6140	-6.05	11.44	5.39	50.00	-44.61	AVG			

#### **Test Result: Pass**

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#### [Test mode: TX]; [Line: Neutral]; [Power: AC120V/60Hz]

**Test Result: Pass** 

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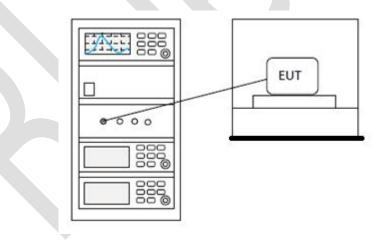
#### 6.3 Conducted peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	NSI C63.10 (2013) Section 7.8.5			
Test Mode (Pre-Scan)	ТХ			
Test Mode (Final Test)	ТХ			

#### 6.3.1 Limit

6.3.1 Limit	
Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

#### 6.3.2 Test setup



#### 6.3.3 Test data

Pass: Please refer to appendix A for details

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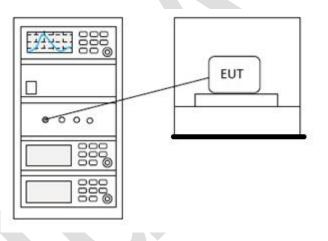


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#### 6.420dB Bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ
Tester	Charlie
Temperature	<b>25</b> ℃
Humidity	60%

#### 6.4.1 Test setup



#### 6.4.2 Test data

Pass: Please refer to appendix A for details

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#### 6.5 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	TX

#### 6.5.1 Limit

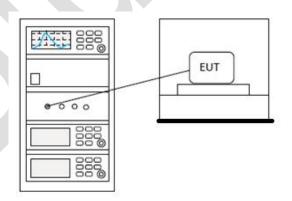
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 6.5.2 Test setup



#### 6.5.3 Test data

Pass: Please refer to appendix A for details

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#### 6.6 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

#### 6.6.1 Limit

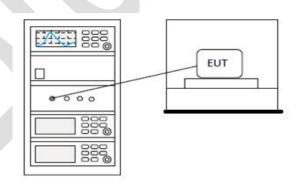
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 6.6.2 Test setup



#### 6.6.3 Test data

Pass: Please refer to appendix A for details

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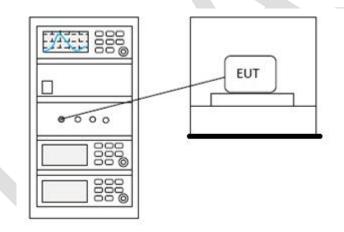
#### 6.7 Carrier Frequencies Separation

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

#### 6.7.1 Limit

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

### 6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

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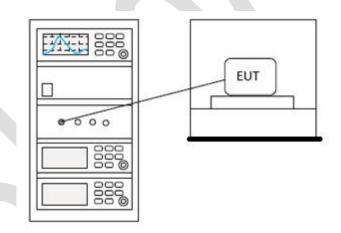
#### 6.8 Hopping Channel Number

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 7.8.3					
Test Mode (Pre-Scan)	ТХ					
Test Mode (Final Test)	ТХ					

#### 6.8.1 Limit

Frequency range(MHz)	Number of hopping channels (minimum)
002.028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

#### 6.8.2 Test setup



#### 6.8.3 Test data

Pass: Please refer to appendix A for details

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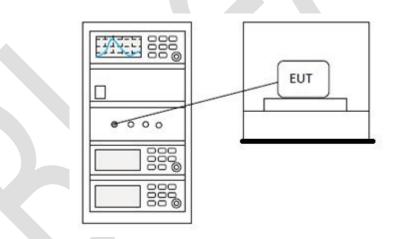
#### 6.9 Dwell Time

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	ТХ
6.9.1 Limit	

#### 6.9.1 Limit

Frequency(MHz)	Limit
002.020	0.4s within a 20s period(20dB bandwidth<250kHz)
902-928	0.4s within a 10s period(20dB bandwidth≥250kHz)
2400-2483.5	0.4s within a period of 0.4s multiplied by the number of hopping channels
5725-5850	0.4s within a 30s period

#### 6.9.2 Test setup



#### 6.9.3 Test data

Pass: Please refer to appendix A for details

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#### 6.10 Radiated spurious emissions

Test Standard47 CFR Part 15, Subpart C 15.247						
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6					
Test Mode (Pre-Scan)	ТХ					
Test Mode (Final Test)	ТХ					

#### 6.10.1 Limit

Frequency(MHz)	Field strength(microvolts/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		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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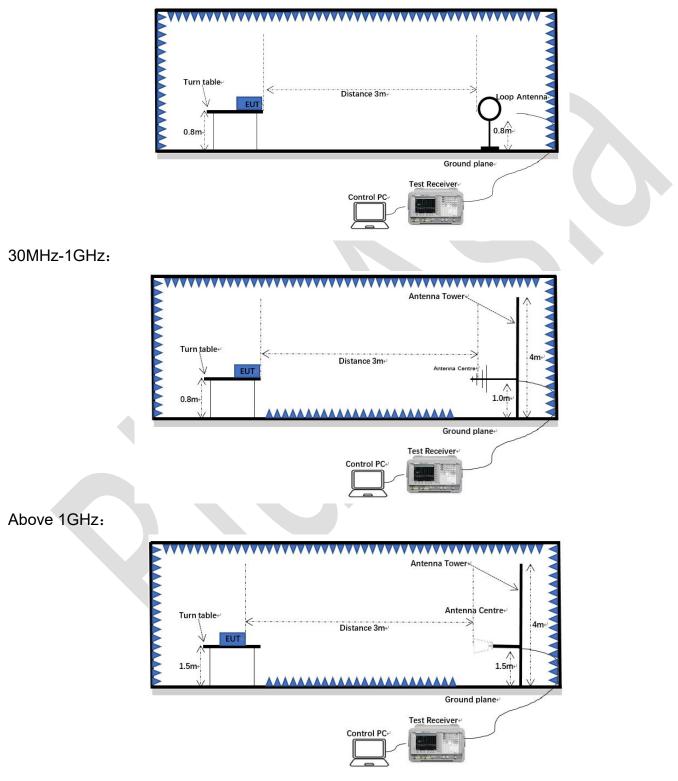


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#### 6.10.2 Test setup

Below 1GHz:



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#### 6.10.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown. Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

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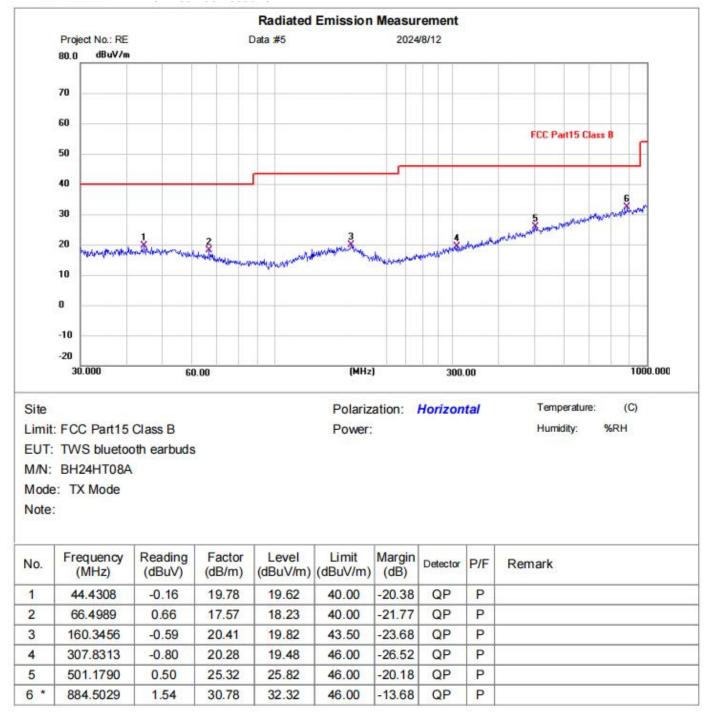


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#### 6.10.4 Test data

#### Below 1GHz





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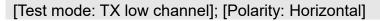


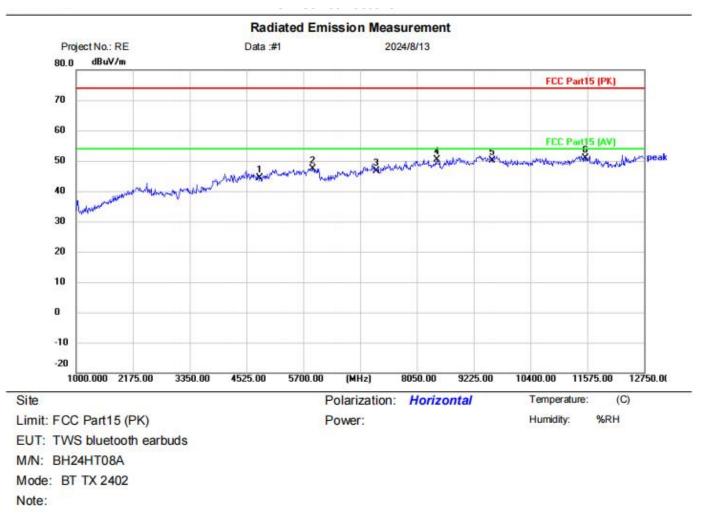
				Radiated	Emission	Measu	rement						
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5	60												
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imit: UT:		oth earbuds	í.				Vertical						
imit: UT: I/N:	TWS bluetoo BH24HT08A	oth earbuds	ć				Vertical						
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imit: UT: I/N: Iode	TWS bluetoo BH24HT08A : TX Mode	oth earbuds					Vertical						
imit: UT: I/N: lode ote:	TWS bluetoo BH24HT08A :: TX Mode	oth earbuds	45	Level	Power:			0	Hun				
imit: UT: I/N: lode ote:	TWS bluetoo BH24HT08A : TX Mode	oth earbuds	Factor	Level (dBuV/m)	Power:	Margin	Vertical Detector	P/F					
imit: UT: I/N: lode ote: o.	TWS bluetoo BH24HT08A TX Mode	oth earbuds	Factor		Power:	Margin	Detector	0	Hun				
imit: UT: I/N: lode ote: o.	TWS bluetoo BH24HT08A TX Mode Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	(dBuV/m)	Power: Limit (dBuV/m)	Margin (dB)	Detector	P/F	Hun				
imit: UT: I/N: lode lote:	TWS bluetoo BH24HT08A TX Mode Frequency (MHz) 44.5868	Reading (dBuV) 3.25	Factor (dB/m) 19.78	(dBuV/m) 23.03	Limit (dBuV/m) 40.00	Margin (dB) -16.97	Detector	P/F P	Hun				
imit: UT: I/N: Iode	TWS bluetoo BH24HT08A TX Mode Frequency (MHz) 44.5868 79.8003	Reading (dBuV) 3.25 3.93	Factor (dB/m) 19.78 15.26	(dBuV/m) 23.03 19.19	Power: Limit (dBuV/m) 40.00 40.00	Margin (dB) -16.97 -20.81	Detector QP QP	P/F P P	Hun				

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#### Above 1GHz:

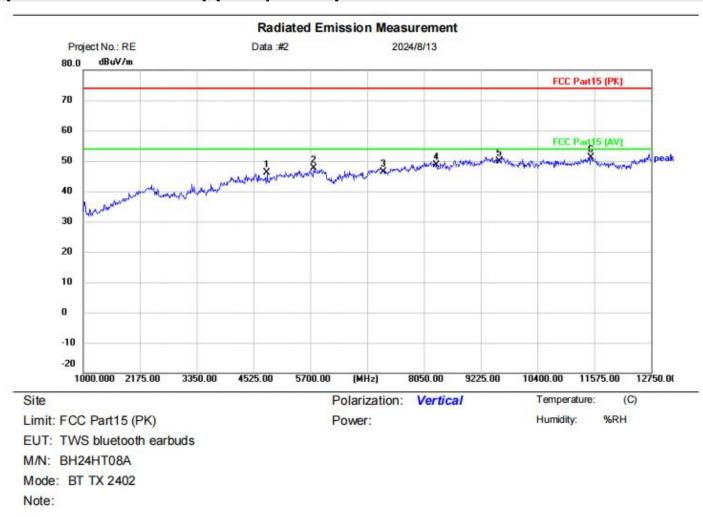




No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.000	38.30	6.03	44.33	74.00	-29.67	peak		
2		5888.000	38.35	9.00	47.35	74.00	-26.65	peak		
3		7206.000	37.29	9.45	46.74	74.00	-27.26	peak		
4		8461.250	39.20	11.23	50.43	74.00	-23.57	peak		
5		9608.000	36.93	13.21	50.14	74.00	-23.86	peak		
6	*	11528.00	36.95	14.03	50.98	74.00	-23.02	peak		

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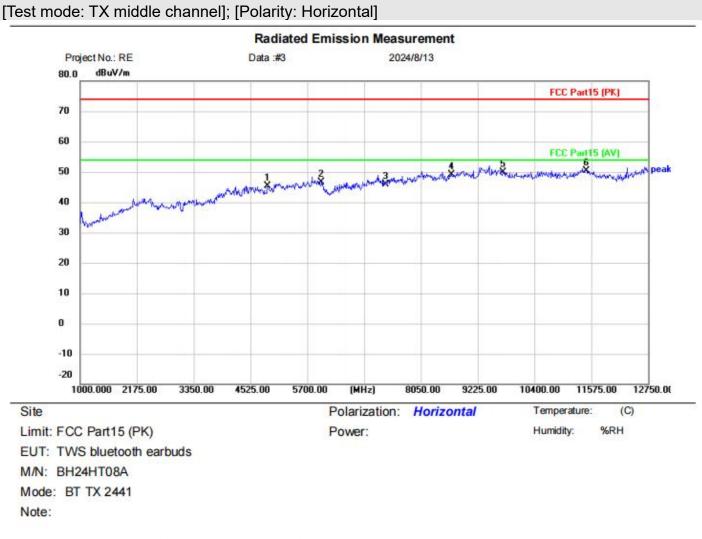


#### [Test mode: TX low channel]; [Polarity: Vertical]

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.000	40.11	6.03	46.14	74.00	-27.86	peak		
2		5770.500	39.30	8.35	47.65	74.00	-26.35	peak		
3		7206.000	37.00	9.45	46.45	74.00	-27.55	peak		
4		8308.500	38.06	10.45	48.51	74.00	-25.49	peak		_
5		9608.000	36.62	13.21	49.83	74.00	-24.17	peak		
6	*	11504.50	36.91	14.11	51.02	74.00	-22.98	peak		

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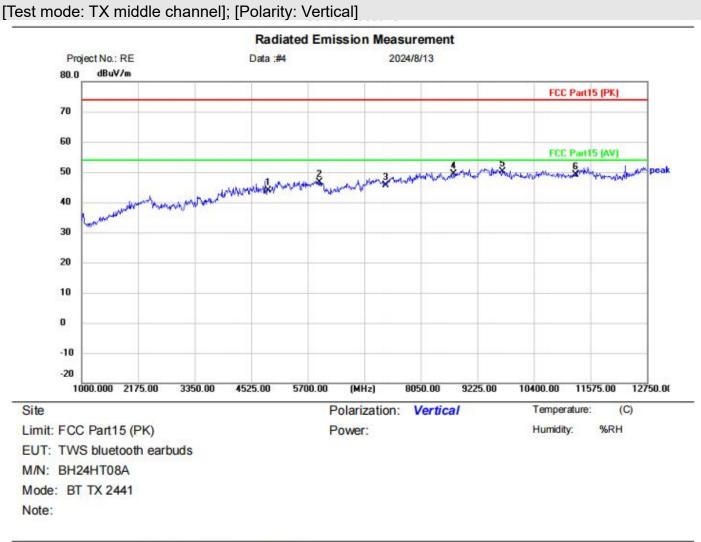




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4882.000	39.19	6.10	45.29	74.00	-28.71	peak		
2		5993.750	37.74	8.96	46.70	74.00	-27.30	peak		
3		7323.000	36.72	9.20	45.92	74.00	-28.08	peak		
4		8684.500	37.24	11.97	49.21	74.00	-24.79	peak		
5		9764.000	36.09	13.82	49.91	74.00	-24.09	peak		
6	*	11469.25	36.36	13.99	50.35	74.00	-23.65	peak		

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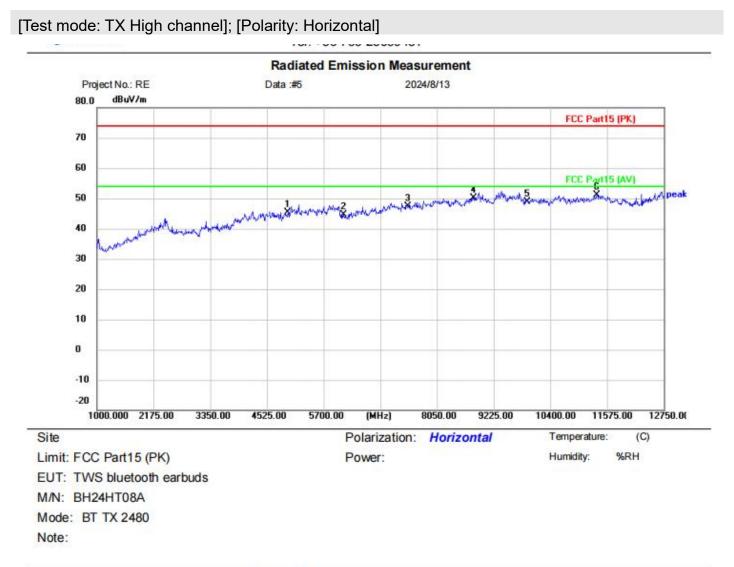




No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4882.000	37.77	6.10	43.87	74.00	-30.13	peak		
2		5935.000	37.67	9.03	46.70	74.00	-27.30	peak		
3		7323.000	36.53	9.20	45.73	74.00	-28.27	peak		
4	100	8731.500	37.22	12.06	49.28	74.00	-24.72	peak		
5	*	9764.000	36.19	13.82	50.01	74.00	-23.99	peak		
6		11269.50	36.29	12.89	49.18	74.00	-24.82	peak		

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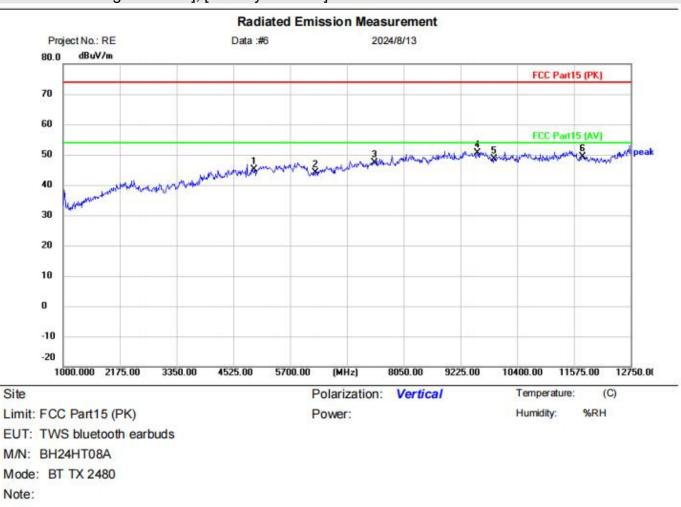


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.000	38.44	7.04	45.48	74.00	-28.52	peak		
2		6111.250	38.24	6.43	44.67	74.00	-29.33	peak		
3		7440.000	37.24	10.04	47.28	74.00	-26.72	peak		
4		8802.000	37.52	12.66	50.18	74.00	-23.82	peak		
5		9920.000	35.85	13.08	48.93	<b>74.00</b>	-25.07	peak		
6	*	11363.50	37.76	13.38	51.14	74.00	-22.86	peak		

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#### [Test mode: TX High channel]; [Polarity: Vertical]

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.000	38.07	7.04	45.11	74.00	-28.89	peak		
2		6217.000	37.48	6.68	44.16	74.00	-29.84	peak		
3		7440.000	37.41	10.04	47.45	74.00	-26.55	peak		
4	*	9577.500	37.26	13.27	50.53	74.00	-23.47	peak		
5		9920.000	35.59	13.08	48.67	74.00	-25.33	peak		
6		11751.25	37.26	12.24	49.50	74.00	-24.50	peak		

#### **Test Result: Pass**

DH1,DH3, DH5 all have been tested, during the test, GFSK, pi/4DQPSK, 8DPSK,modulation were all pre-scanned Only the GFSK of the worst mode would be recorded in this report.

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#### 6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 6.10.5					
Test Mode (Pre-Scan)	ТХ					
Test Mode (Final Test)	ТХ					

#### 6.11.1 Limit

Frequency(MHz)	Field strength(microvolts/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		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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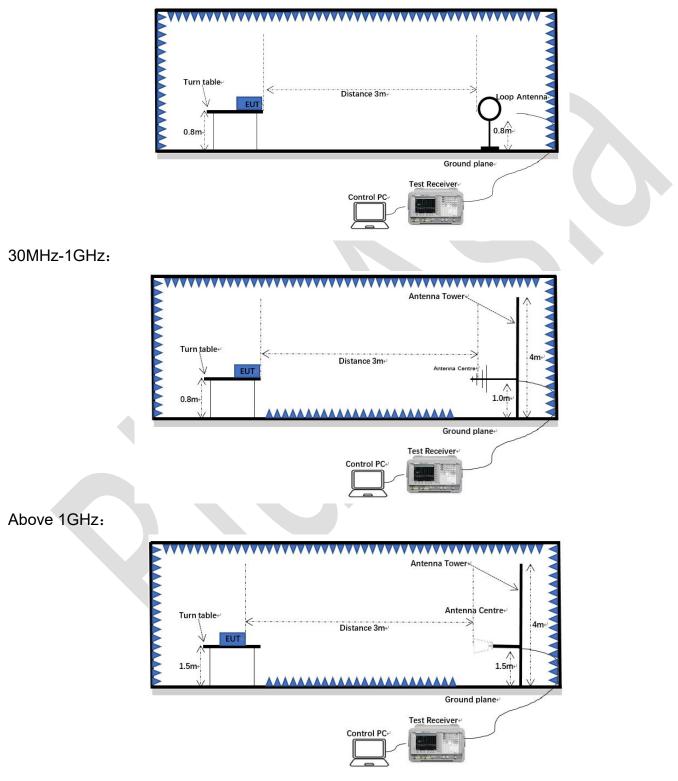


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#### 6.11.2 Test setup

Below 1GHz:



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## 6.11.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

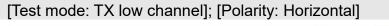
## Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

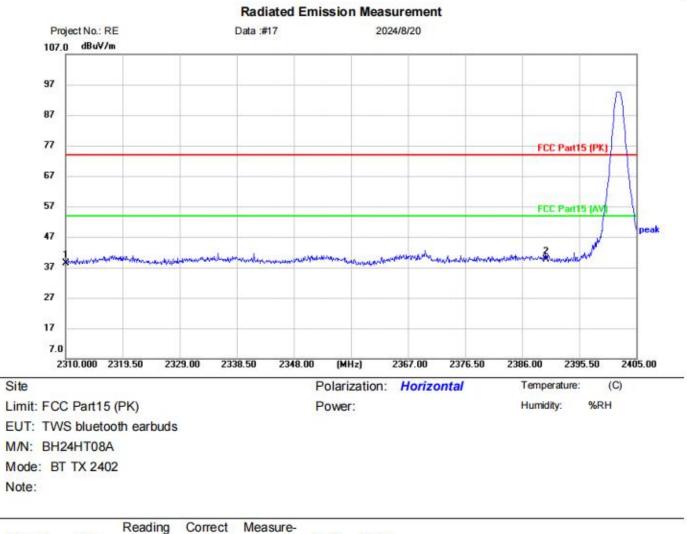
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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## 6.11.4 Test data



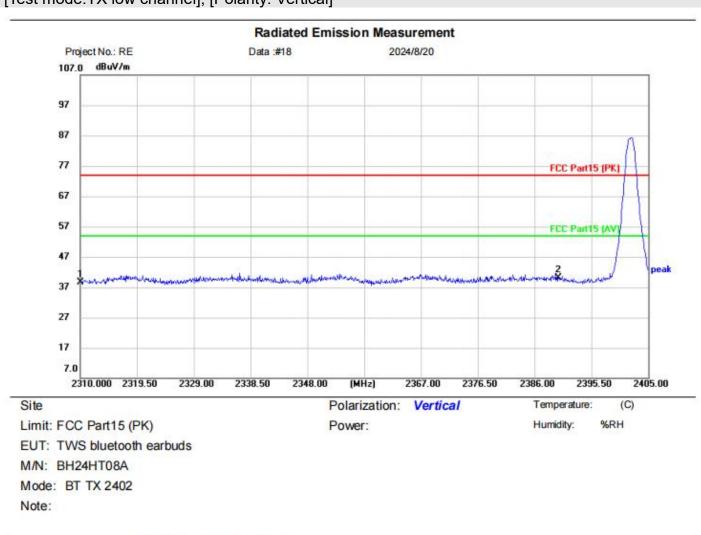


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	41.11	-2.67	38.44	74.00	-35.56	peak		
2	*	2390.000	41.79	-2.24	39.55	74.00	-34.45	peak		

## **Test Result: Pass**

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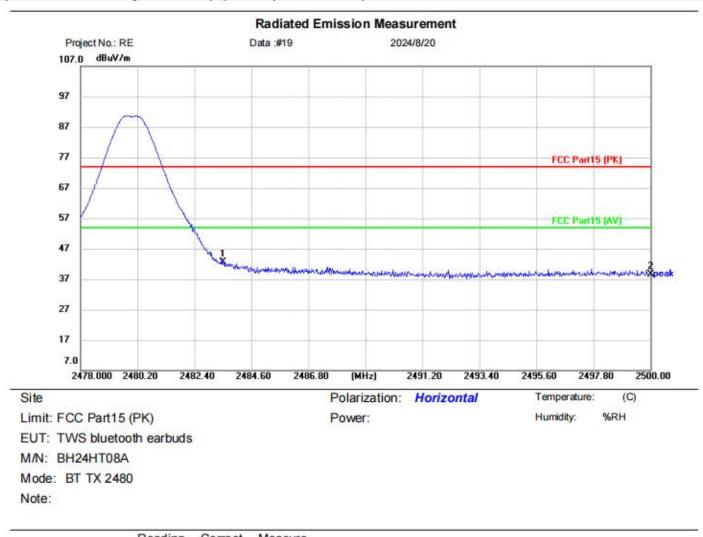
## [Test mode:TX low channel]; [Polarity: Vertical]

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	41.27	-2.67	38.60	74.00	-35.40	peak		
2	*	2390.000	42.34	-2.24	40.10	74.00	-33.90	peak		

## **Test Result: Pass**

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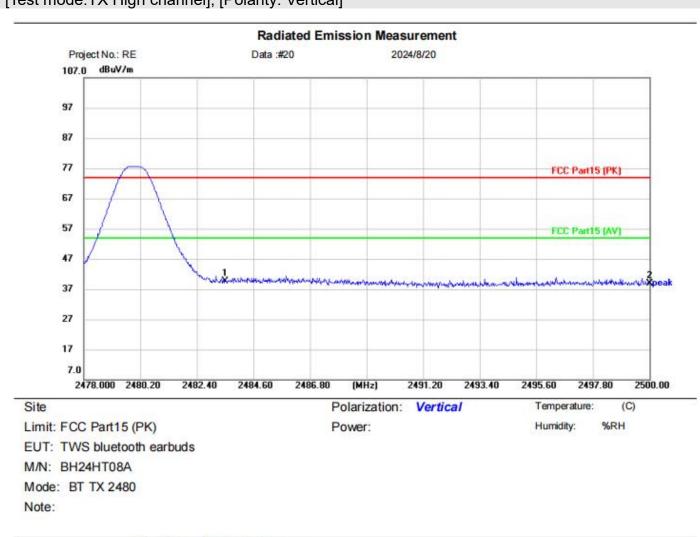
[Test mode:	TY High	channell.	[Dolarity:	Horizonta	11

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	45.24	-2.71	42.53	74.00	-31.47	peak		
2		2500.000	41.50	-2.80	38.70	74.00	-35.30	peak		

## **Test Result: Pass**

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Test mode:TX	High	channell.	[Polarity:	Vortical1
TUST HOULD IN	TIMIT	channen.	n olantv.	volucan

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	42.38	-2.71	39.67	74.00	-34.33	peak		
2		2500.000	41.64	-2.80	38.84	74.00	-35.16	peak		

## **Test Result: Pass**

DH1,DH3, DH5 all have been tested, during the test, GFSK, pi/4DQPSK, 8DPSK,modulation were all pre-scanned Only the GFSK of the worst mode would be recorded in this report.

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# 7 Appendix A

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.075	21	Pass
NVNT	1-DH1	2441	Ant1	2.3	21	Pass
NVNT	1-DH1	2480	Ant1	1.735	21	Pass
NVNT	2-DH1	2402	Ant1	1.934	21	Pass
NVNT	2-DH1	2441	Ant1	2.103	21	Pass
NVNT	2-DH1	2480	Ant1	1.538	21	Pass
NVNT	3-DH1	2402	Ant1	2.103	21	Pass
NVNT	3-DH1	2441	Ant1	2.3	21	Pass
NVNT	3-DH1	2480	Ant1	1.744	21	Pass

# 7.1 Maximum Conducted Output Power

Power NVNT 1-DH1 2402MHz Ant1



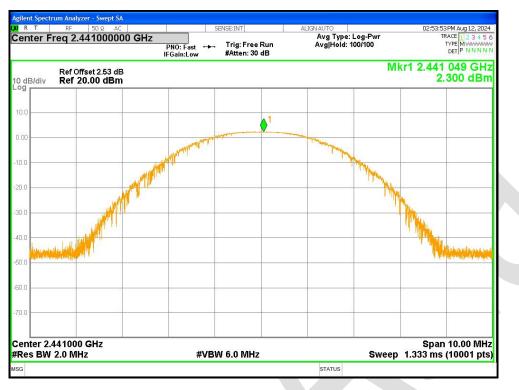
Power NVNT 1-DH1 2441MHz Ant1

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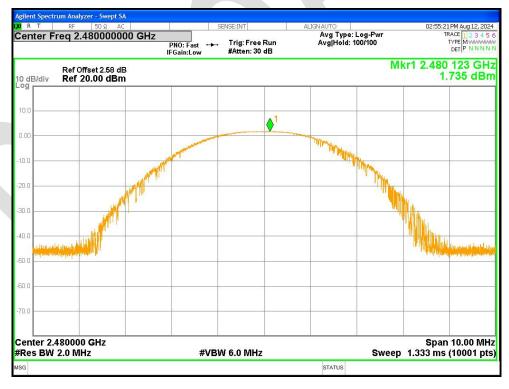
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## Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1

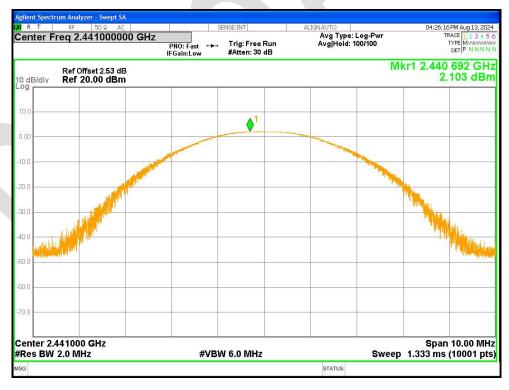
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## Power NVNT 2-DH1 2441MHz Ant1

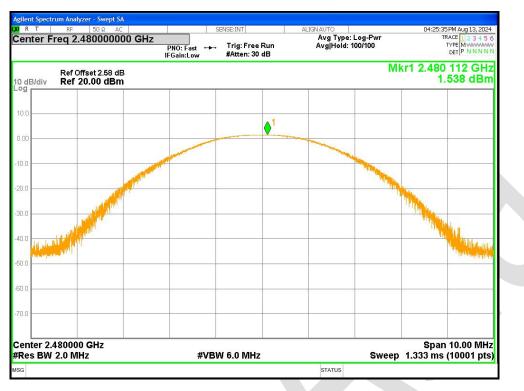


Power NVNT 2-DH1 2480MHz Ant1

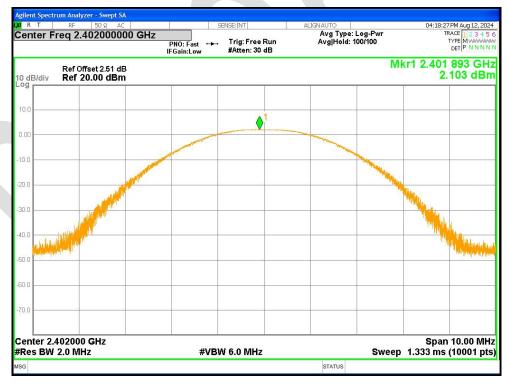
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#### Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1

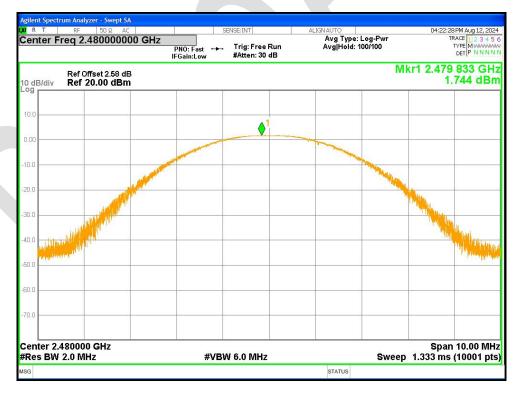
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## Power NVNT 3-DH1 2480MHz Ant1



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# 7.2-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.98	N/A	Pass
NVNT	1-DH1	2441	Ant1	1.045	N/A	Pass
NVNT	1-DH1	2480	Ant1	0.91	N/A	Pass
NVNT	2-DH1	2402	Ant1	1.266	N/A	Pass
NVNT	2-DH1	2441	Ant1	1.277	N/A	Pass
NVNT	2-DH1	2480	Ant1	1.258	N/A	Pass
NVNT	3-DH1	2402	Ant1	1.235	N/A	Pass
NVNT	3-DH1	2441	Ant1	1.251	N/A	Pass
NVNT	3-DH1	2480	Ant1	1.248	N/A	Pass

## -20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



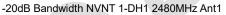
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

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-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1

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-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



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-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1

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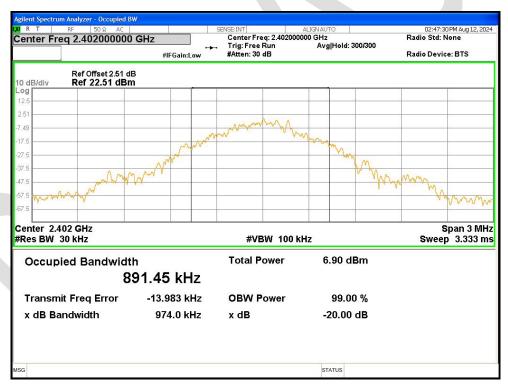


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Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.89145
NVNT	1-DH1	2441	Ant1	0.92319
NVNT	1-DH1	2480	Ant1	0.83198
NVNT	2-DH1	2402	Ant1	1.1850
NVNT	2-DH1	2441	Ant1	1.1950
NVNT	2-DH1	2480	Ant1	1.2106
NVNT	3-DH1	2402	Ant1	1.1572
NVNT	3-DH1	2441	Ant1	1.1851
NVNT	3-DH1	2480	Ant1	1.1931
-				

# 7.3 Occupied Channel Bandwidth

## OBW NVNT 1-DH1 2402MHz Ant1



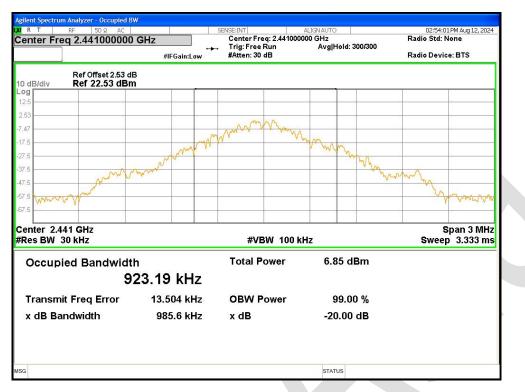
#### OBW NVNT 1-DH1 2441MHz Ant1

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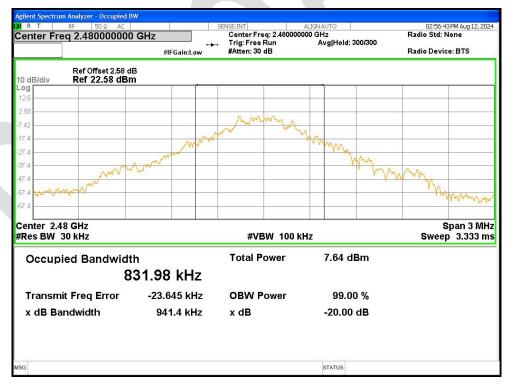
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#### OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1

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### OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

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