

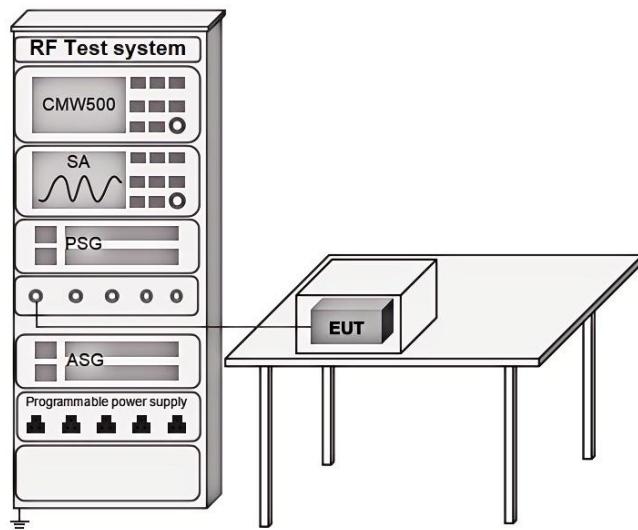
6.8 Hopping Channel Number

Test Standard	47 CFR Part 15, Subpart C 15.247 (a)(1) (iii)
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth \geq 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

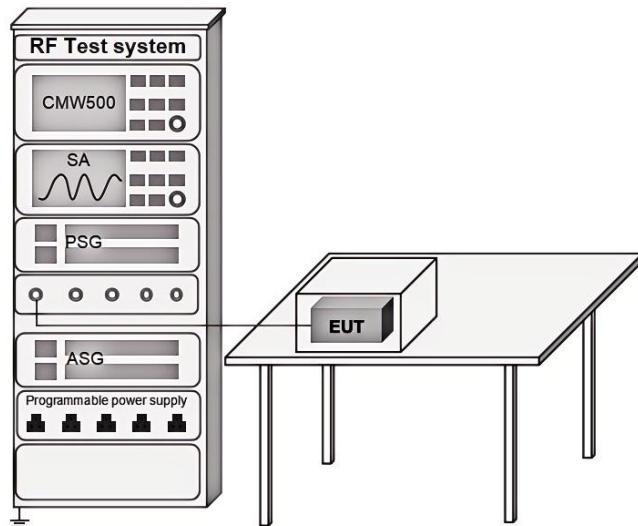
6.9 Dwell Time

Test Standard	47 CFR Part 15, Subpart C 15.247(a)(1) (iii)
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Limit

Frequency(MHz)	Limit
902-928	0.4s within a 20s period(20dB bandwidth<250kHz)
	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

6.10 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247(d) 47 CFR Part 15, Subpart C 15.209
Test Method	ANSI C63.10 (2013) Section 6.3,6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

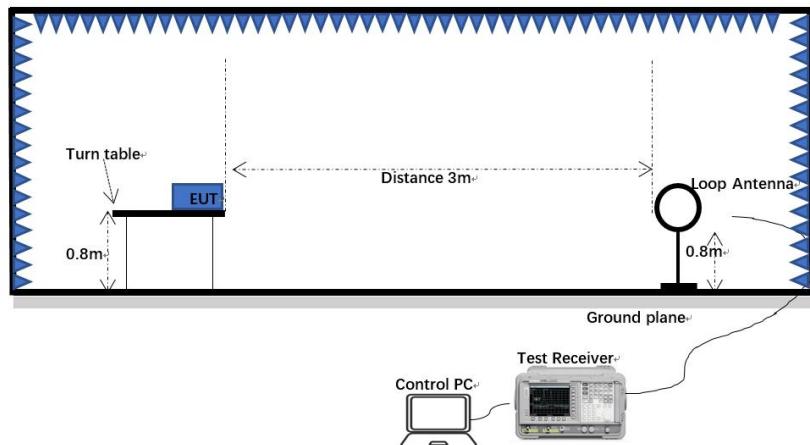
6.10.1 Limit

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

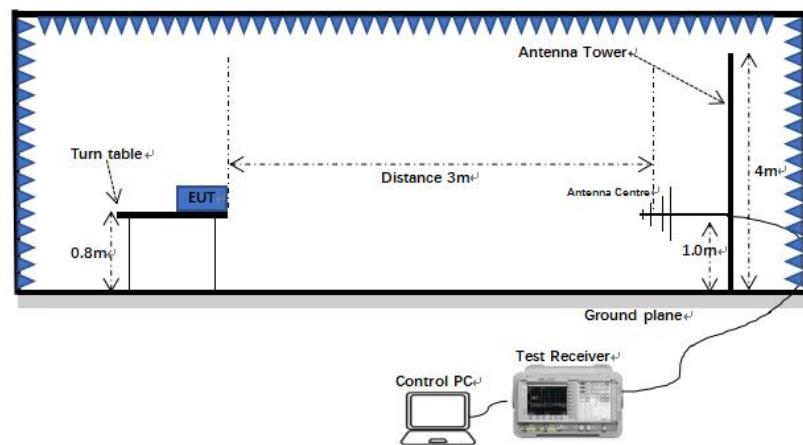
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

6.10.2 Test setup

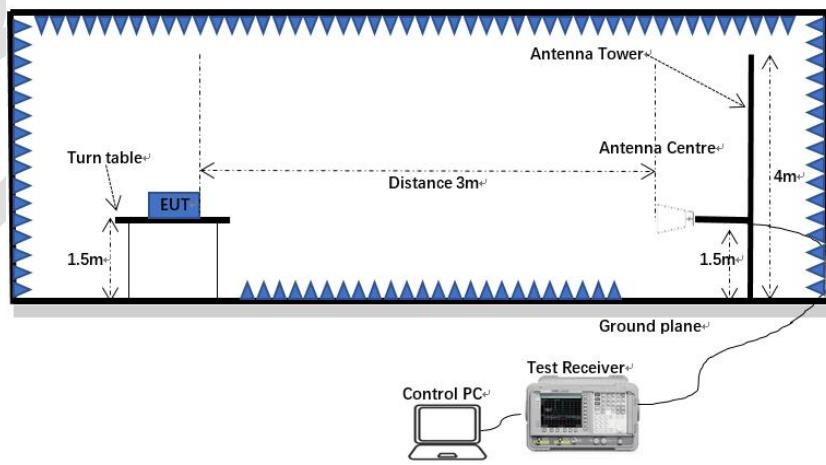
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



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.

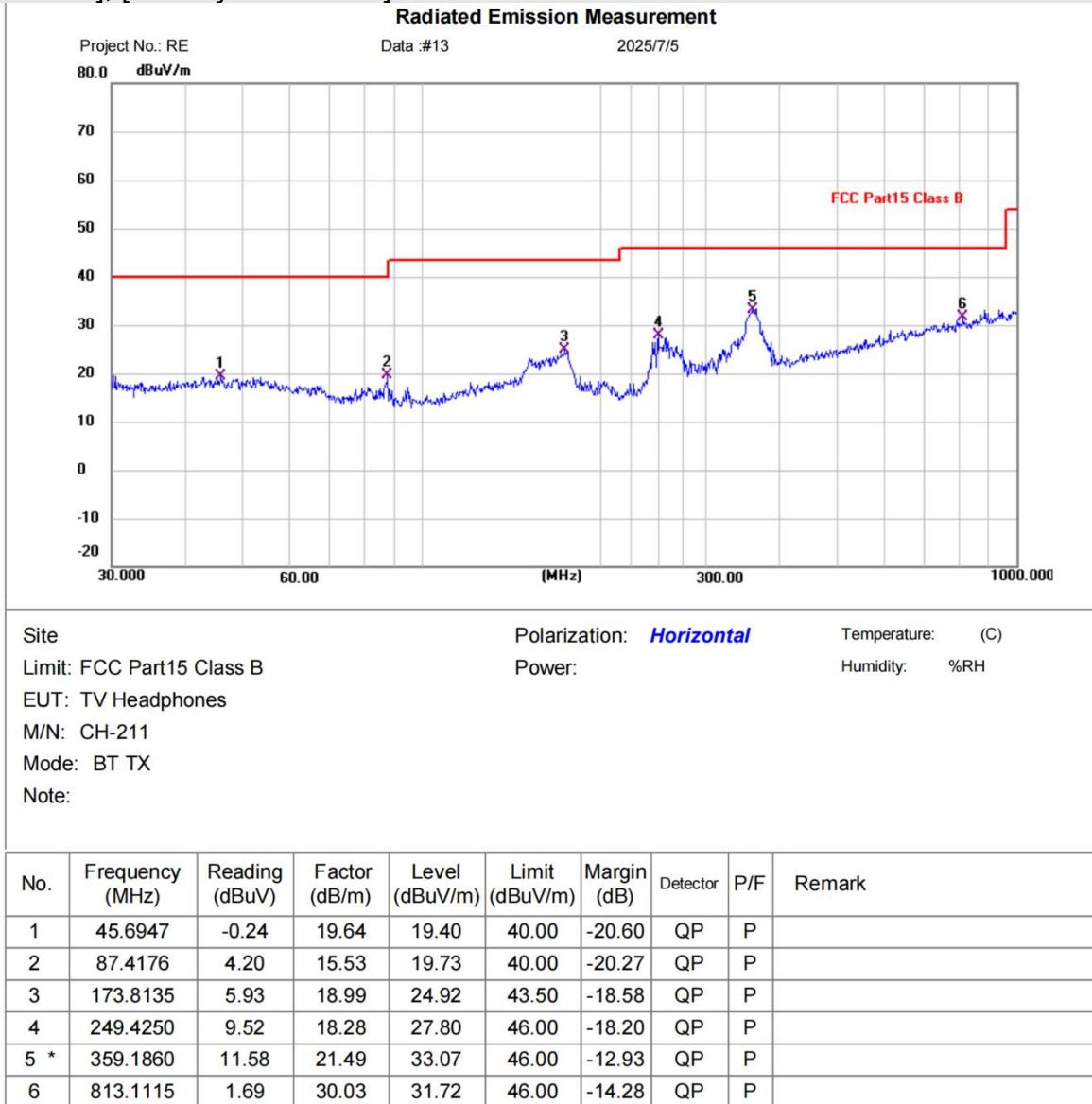
Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.10.4 Test data

Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



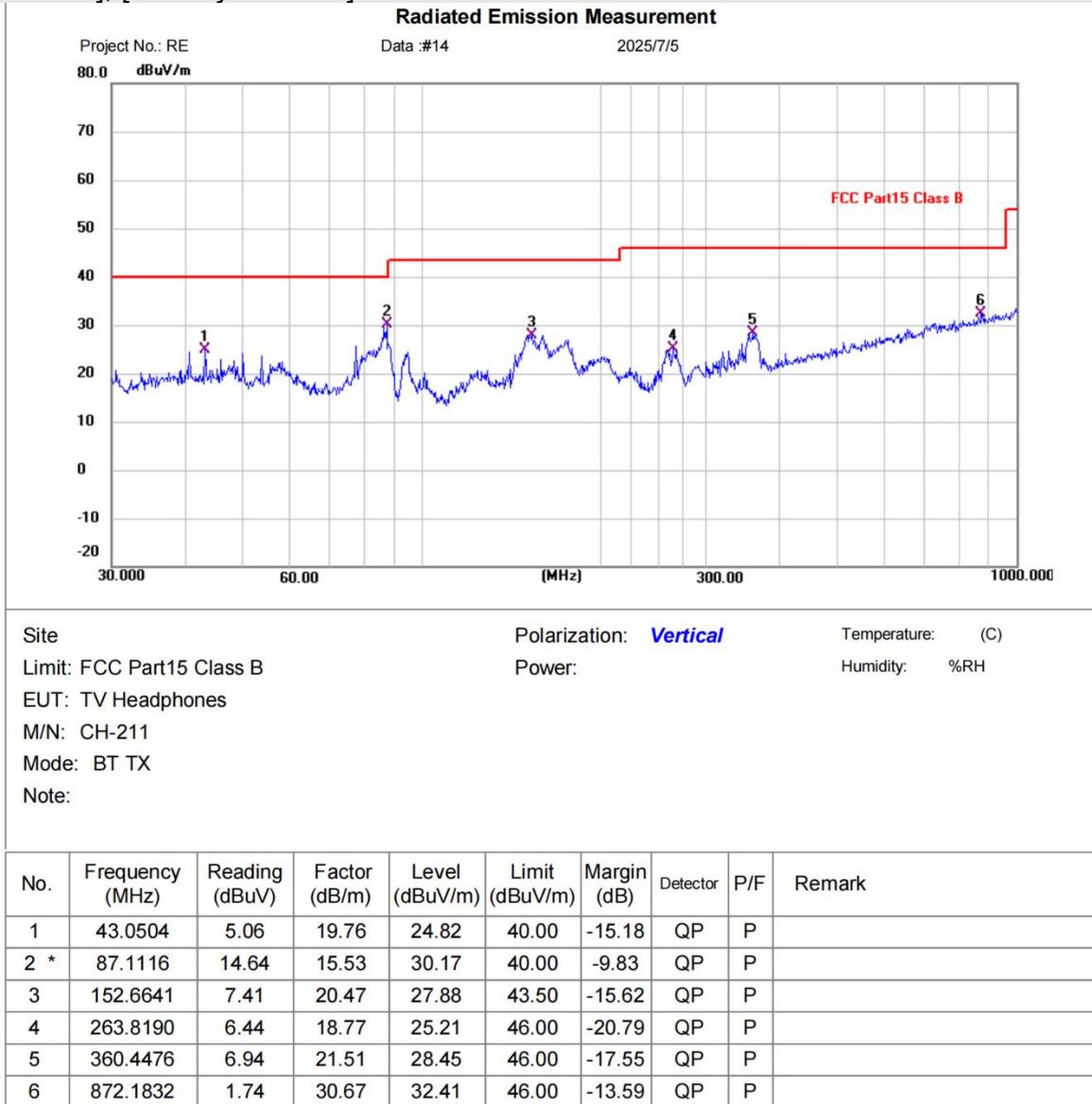
Test Result: Pass

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Version:v1.3

[Test mode: TX]; [Polarity: Vertical]

* Maximum data Order limit Lower margin
Test Result: Pass
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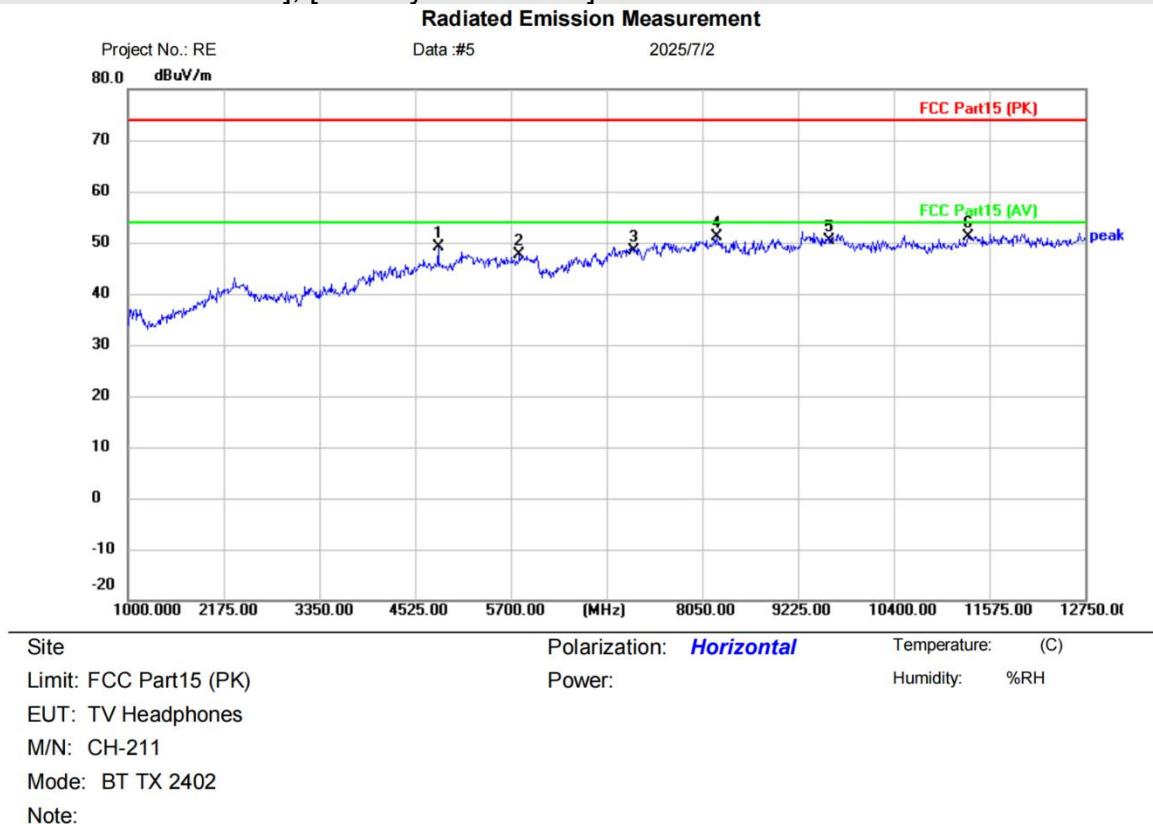
Email: marketing@cblueasia.com www.cblueasia.com

Version:v1.3

Above 1GHz:

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the GFSK mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		Detector	Comment
1		4807.000	42.75	6.32	49.07	74.00	-24.93	peak
2		5805.750	38.53	9.00	47.53	74.00	-26.47	peak
3		7206.000	37.95	10.39	48.34	74.00	-25.66	peak
4		8226.250	39.71	11.34	51.05	74.00	-22.95	peak
5		9608.000	37.32	13.01	50.33	74.00	-23.67	peak
6	*	11316.50	37.85	13.35	51.20	74.00	-22.80	peak

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

⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

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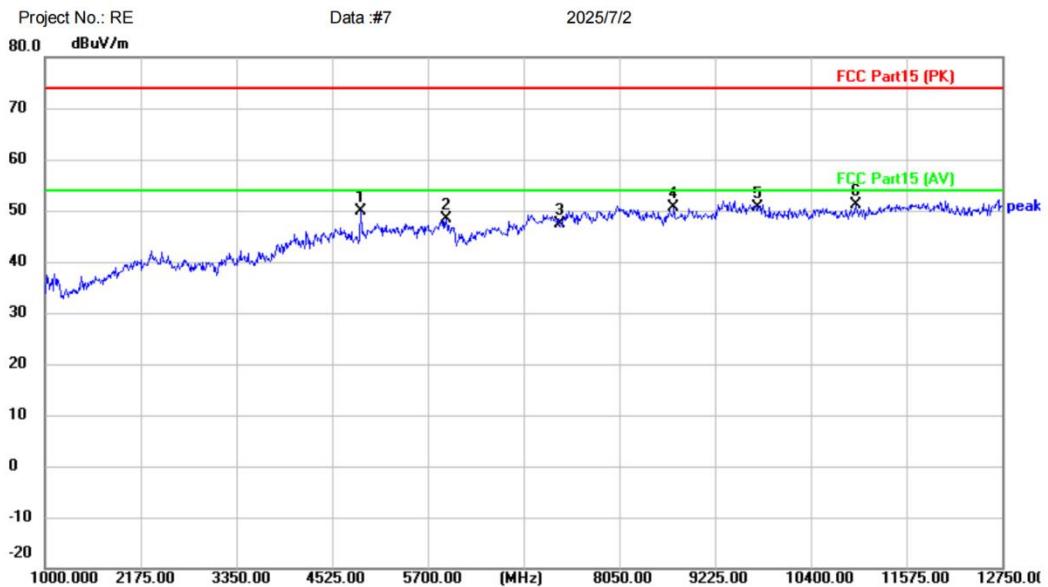
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Version:v1.3

[Test mode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

 Polarization: **Horizontal**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2441

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4877.500	43.54	6.41	49.95	74.00	-24.05	peak		
2	5923.250	39.44	9.06	48.50	74.00	-25.50	peak		
3	7323.000	37.17	10.17	47.34	74.00	-26.66	peak		
4	8719.750	38.86	11.79	50.65	74.00	-23.35	peak		
5	9764.000	36.87	13.76	50.63	74.00	-23.37	peak		
6	*	10952.25	38.04	13.09	51.13	74.00	-22.87	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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

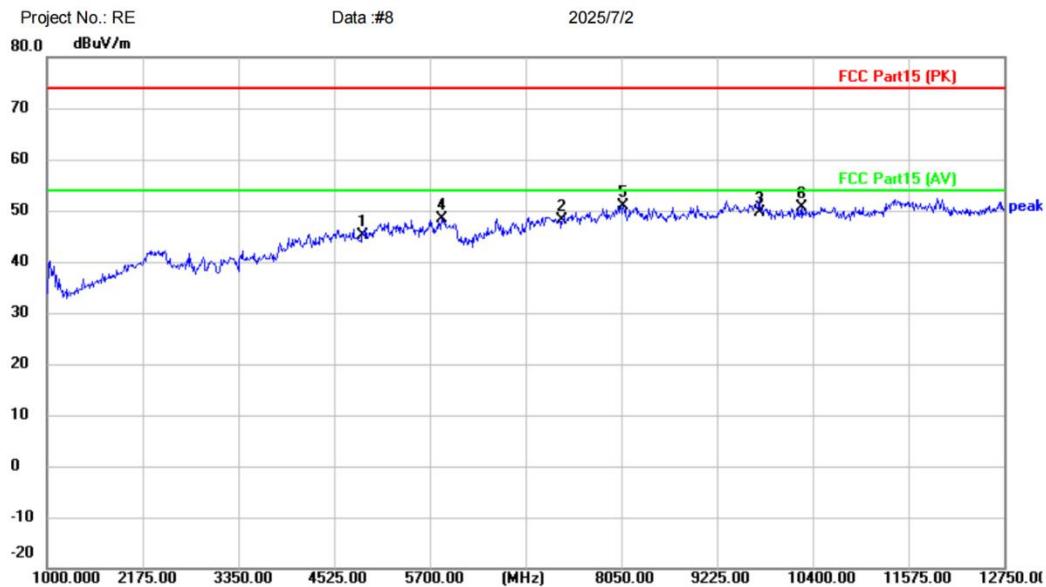
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 Email: marketing@cblueasia.com www.cblueasia.com

Version:v1.3

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement


 Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2441

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4882.000	38.65	6.43	45.08	74.00	-28.92		peak	
2	7323.000	37.88	10.17	48.05	74.00	-25.95		peak	
3	9764.000	35.91	13.76	49.67	74.00	-24.33		peak	
4	5841.000	39.43	8.89	48.32	74.00	-25.68		peak	
5	* 8073.500	39.19	11.75	50.94	74.00	-23.06		peak	
6	10270.75	37.25	13.45	50.70	74.00	-23.30		peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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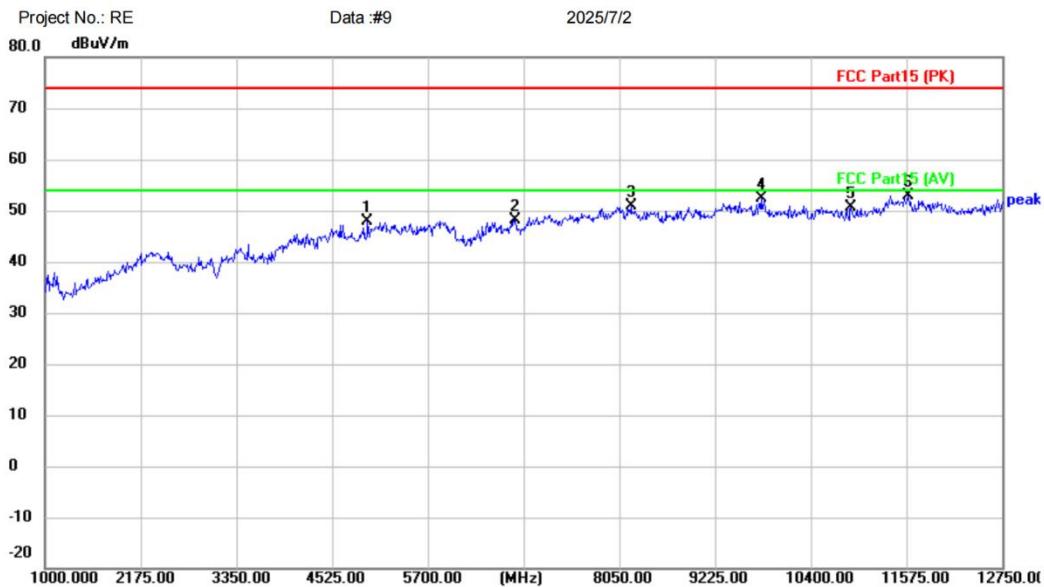
Tel: +86-755-23059481

 Email: marketing@cblueasia.com www.cblueasia.com

Version:v1.3

[Test mode: TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement


 Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4959.750	40.45	7.41	47.86	74.00	-26.14		peak	
2	6769.250	39.36	8.86	48.22	74.00	-25.78		peak	
3	8191.000	39.34	11.50	50.84	74.00	-23.16		peak	
4	9789.000	38.75	13.67	52.42	74.00	-21.58		peak	
5	10893.50	37.51	13.21	50.72	74.00	-23.28		peak	
6	*	11598.50	38.16	14.77	52.93	74.00	-21.07	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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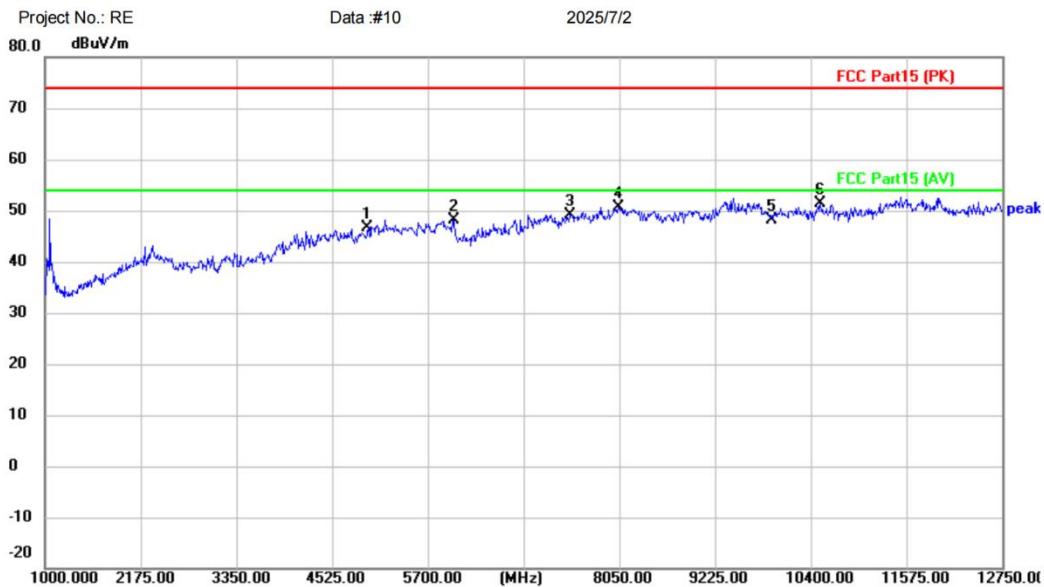
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Version:v1.3

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

Radiated Emission Measurement



Site

 Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over dB	Detector	Comment
1		4960.000	39.26	7.41	46.67	74.00	-27.33	peak	
2		6017.250	42.09	5.96	48.05	74.00	-25.95	peak	
3		7440.000	38.17	11.03	49.20	74.00	-24.80	peak	
4		8038.250	38.91	11.68	50.59	74.00	-23.41	peak	
5		9920.000	34.89	13.16	48.05	74.00	-25.95	peak	
6	*	10517.50	37.60	13.72	51.32	74.00	-22.68	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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

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Version:v1.3

6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247(d) 47 CFR Part 15, Subpart C 15.205
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

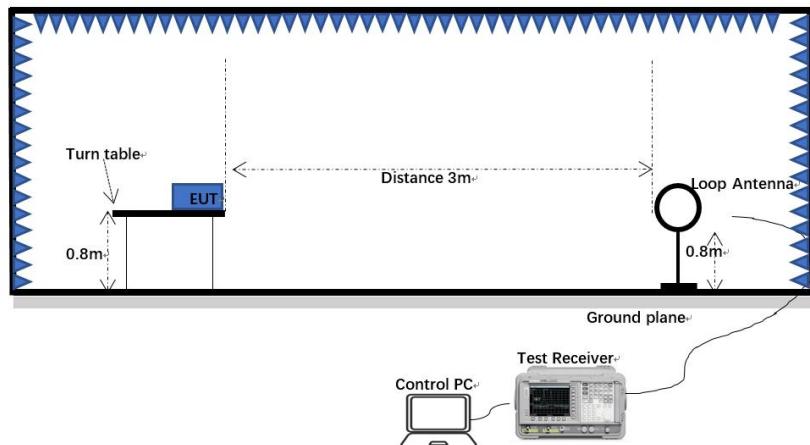
6.11.1 Limit

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

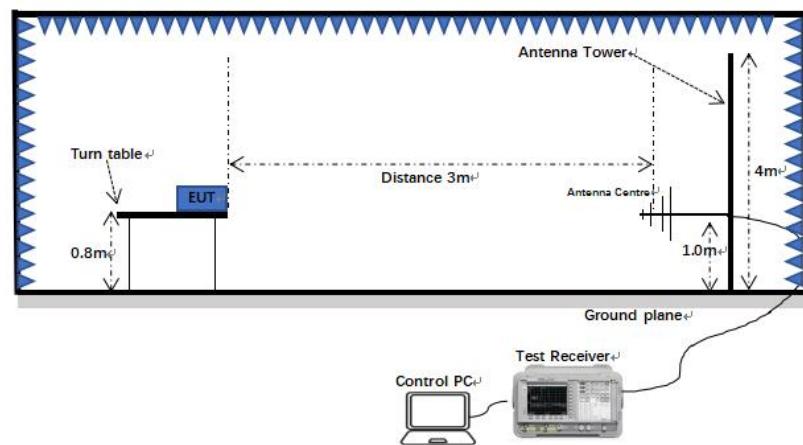
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

6.11.2 Test setup

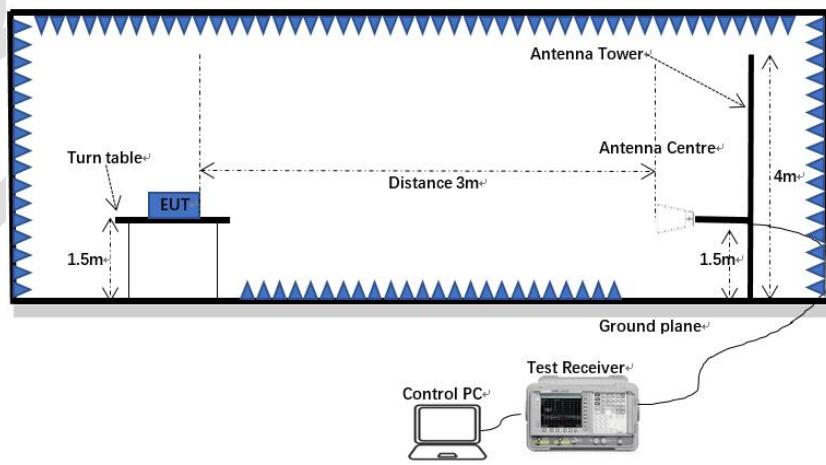
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



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.

6.11.4 Test data

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the GFSK mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]

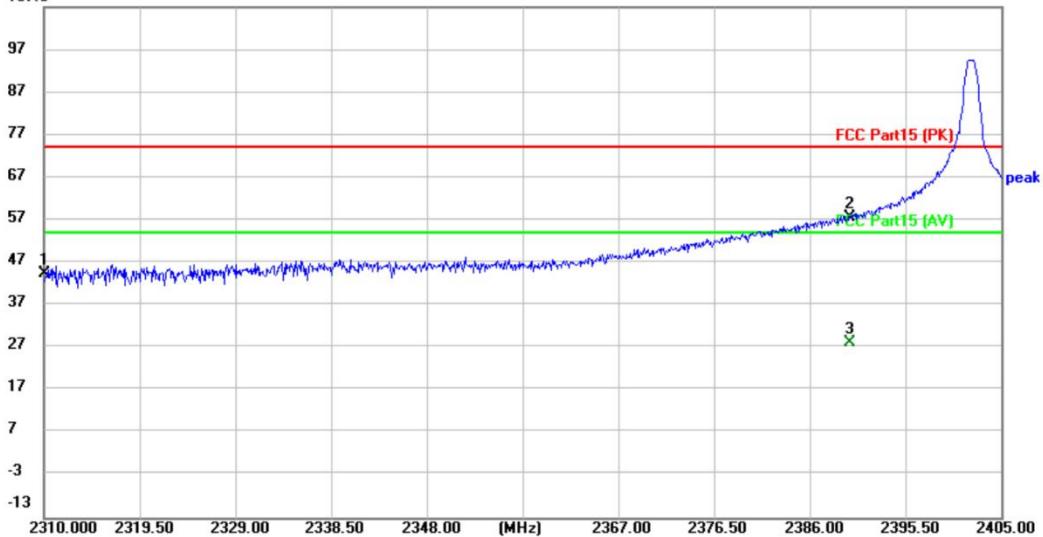
Radiated Emission Measurement

Project No.: RE

Data #:13

2025/7/4

107.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	47.35	-2.87	44.48	74.00	-29.52	peak	
2	*	2390.000	60.01	-2.44	57.57	74.00	-16.43	peak	
3		2390.000	30.64	-2.44	28.20	54.00	-25.80	AVG	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

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Version:v1.3

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

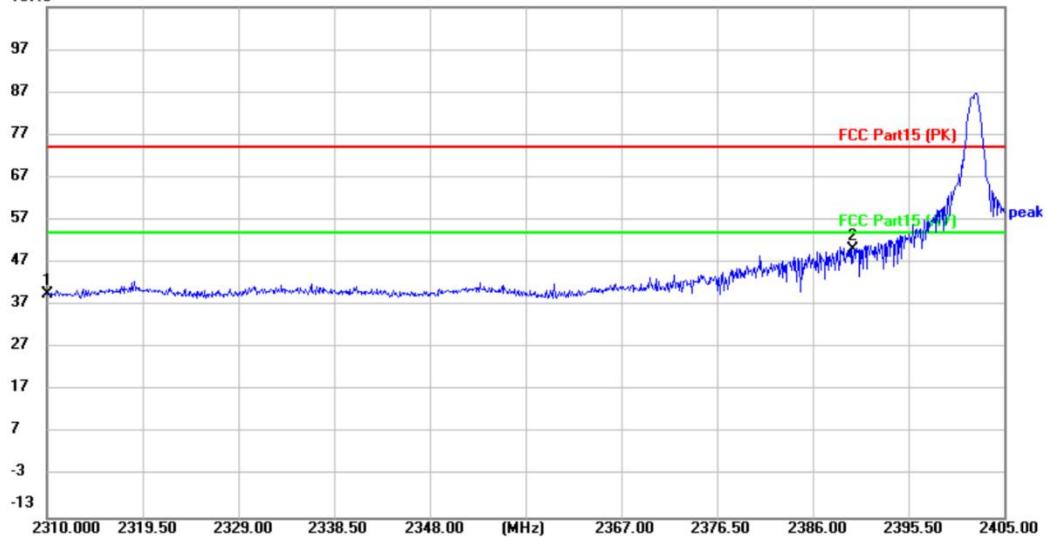
Radiated Emission Measurement

Project No.: RE

Data #:14

2025/7/4

107.0 dBuV/m



Site

 Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		2310.000	42.57	-2.87	39.70	74.00	-34.30	peak
2	*	2390.000	52.65	-2.44	50.21	74.00	-23.79	peak

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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Version:v1.3

[Test mode: TX High channel]; [Polarity: Horizontal]

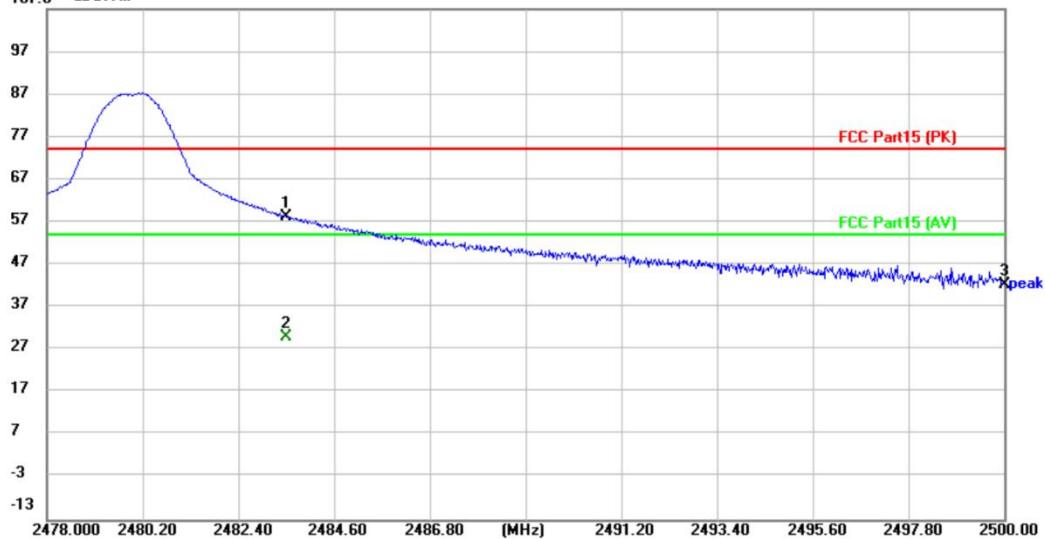
Radiated Emission Measurement

Project No.: RE

Data #:11

2025/7/4

107.0 dBuV/m



Site

 Polarization: **Horizontal**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	61.07	-2.91	58.16	74.00	-15.84	peak	
2		2483.500	33.01	-2.91	30.10	54.00	-23.90	AVG	
3		2500.000	45.48	-3.00	42.48	74.00	-31.52	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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

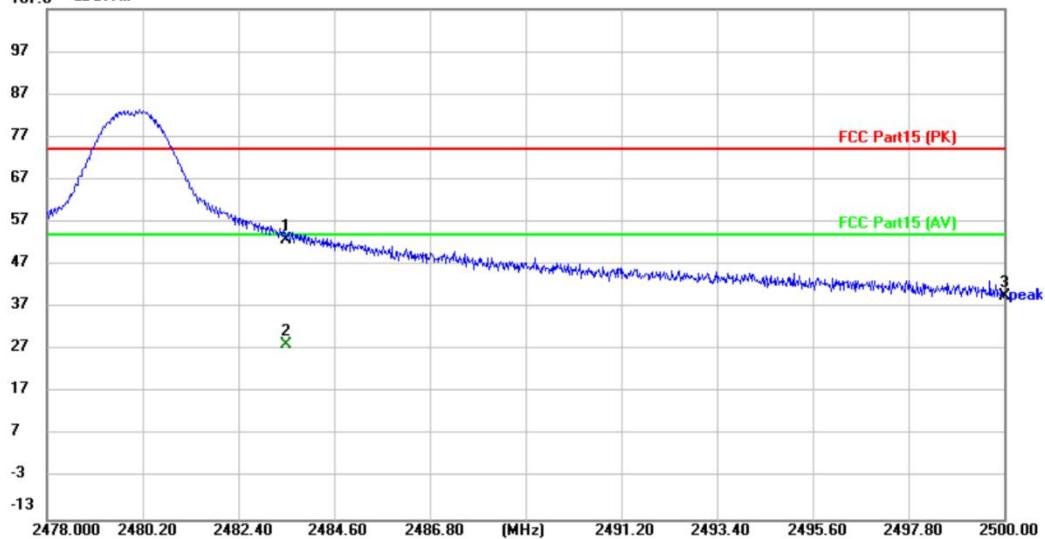
Radiated Emission Measurement

Project No.: RE

Data #:12

2025/7/4

107.0 dBuV/m



Site

 Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: TV Headphones

M/N: CH-211

Mode: BT TX 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	55.75	-2.91	52.84	74.00	-21.16	peak	
2		2483.500	31.23	-2.91	28.32	54.00	-25.68	AVG	
3		2500.000	42.69	-3.00	39.69	74.00	-34.31	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

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 Email: marketing@cblueasia.com www.cblueasia.com

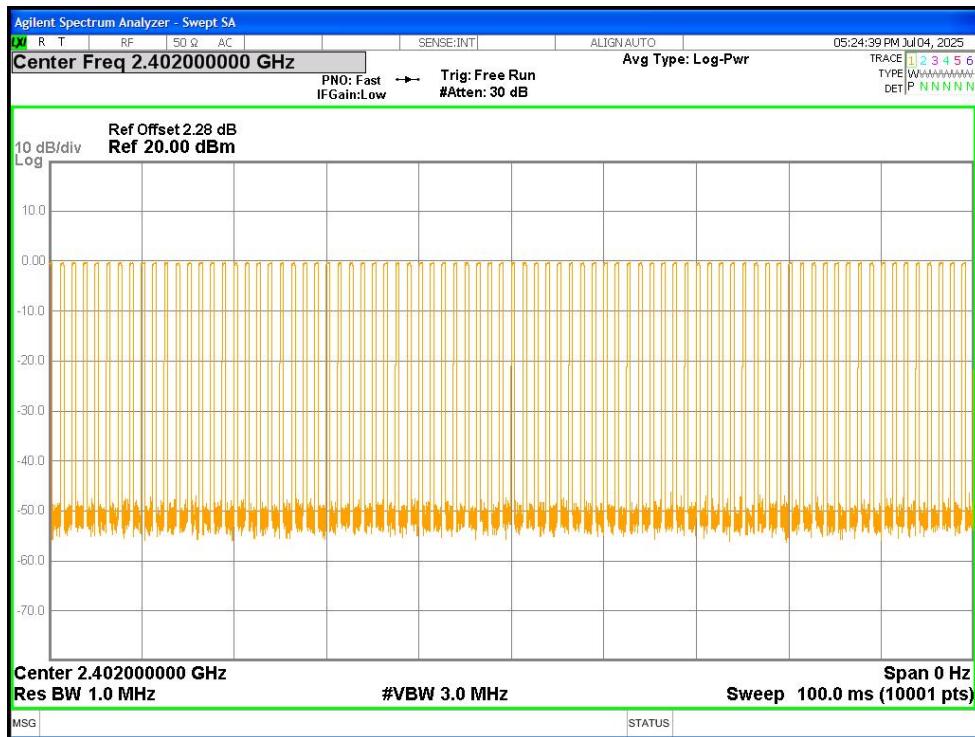
Version:v1.3

7 Appendix A

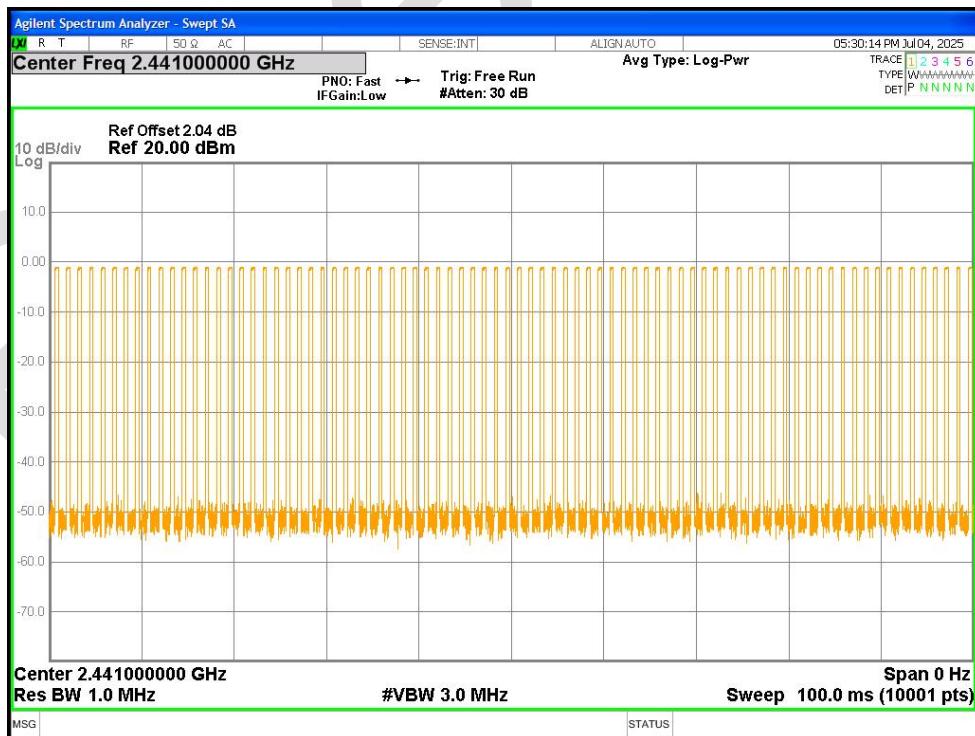
7.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	1-DH1	2402	Ant1	32.01	4.95
NVNT	1-DH1	2441	Ant1	32	4.95
NVNT	1-DH1	2480	Ant1	32.01	4.95
NVNT	2-DH1	2402	Ant1	33.59	4.74
NVNT	2-DH1	2441	Ant1	32.81	4.84
NVNT	2-DH1	2480	Ant1	33.38	4.77
NVNT	3-DH1	2402	Ant1	33.6	4.74
NVNT	3-DH1	2441	Ant1	33.49	4.75
NVNT	3-DH1	2480	Ant1	33.61	4.74

Duty Cycle NVNT 1-DH1 2402MHz Ant1



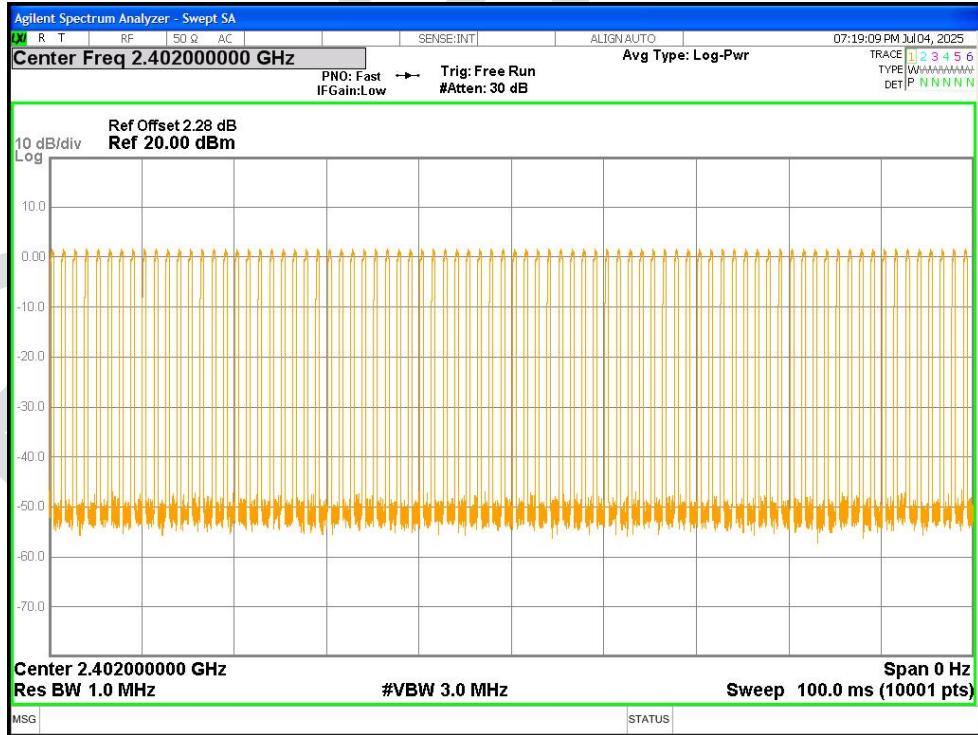
Duty Cycle NVNT 1-DH1 2441MHz Ant1



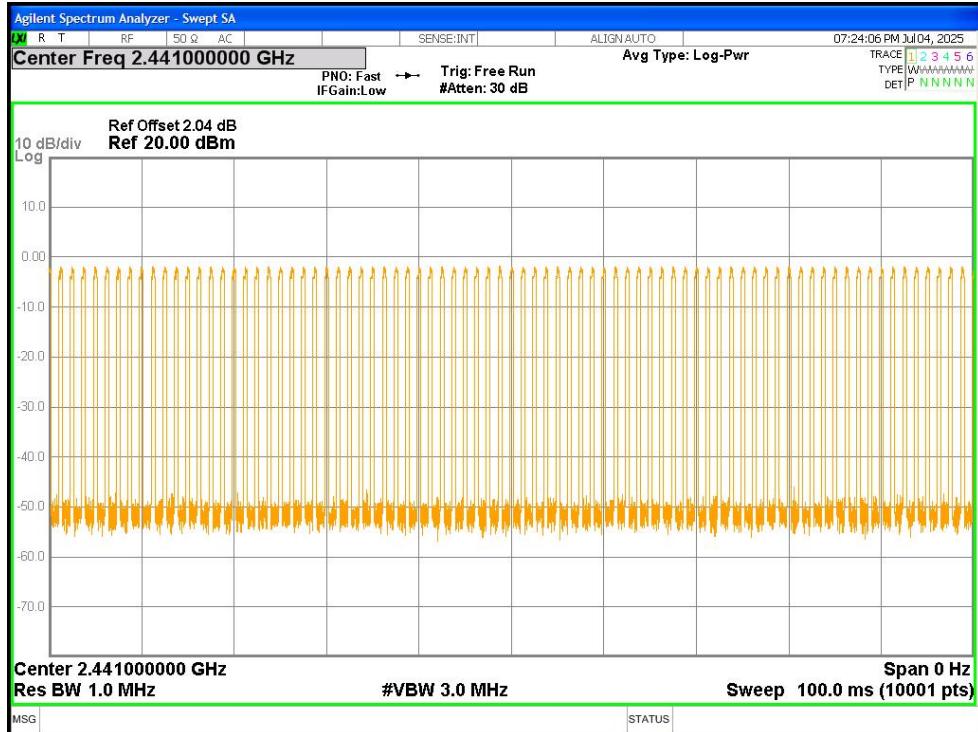
Duty Cycle NVNT 1-DH1 2480MHz Ant1



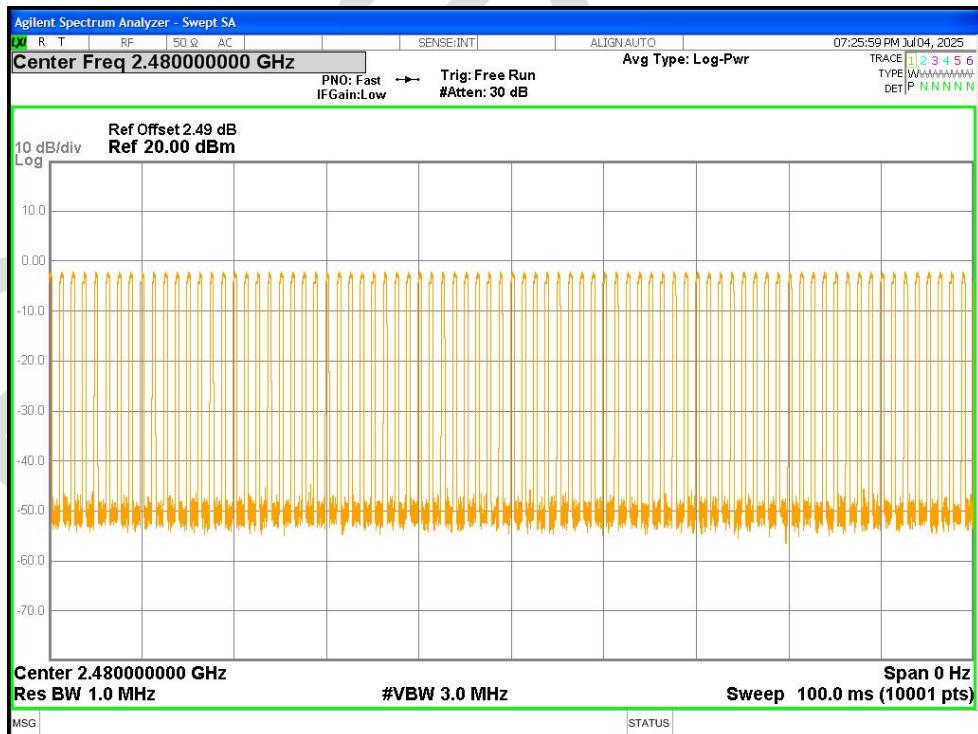
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1



Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1

