# Appendix A: Test Results of Bluetooth BR & EDR

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# Appendix A.1: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 0.933 | 2401.550 | 2402.483 | --- | --- |
| | | 2441 | 0.936 | 2440.553 | 2441.489 | --- | --- |
| | | 2480 | 0.948 | 2479.547 | 2480.495 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.329 | 2401.343 | 2402.672 | --- | --- |
| | | 2441 | 1.266 | 2440.367 | 2441.633 | --- | --- |
| | | 2480 | 1.275 | 2479.361 | 2480.636 | --- | --- |

## Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480

# Appendix A.2: Occupied Channel Bandwidth

## Test Result

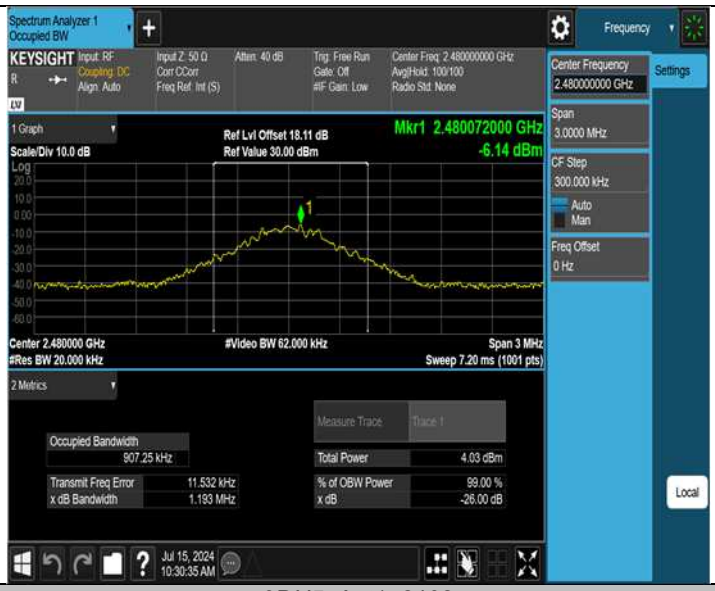
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 0.90138 | 2401.5554 | 2402.4568 | --- | --- |
| | | 2441 | 0.89566 | 2440.5607 | 2441.4564 | --- | --- |
| | | 2480 | 0.90725 | 2479.5579 | 2480.4652 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.2221 | 2401.3912 | 2402.6133 | --- | --- |
| | | 2441 | 1.2277 | 2440.3871 | 2441.6148 | --- | --- |
| | | 2480 | 1.2566 | 2479.3770 | 2480.6336 | --- | --- |

## Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480




3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480

# Appendix A.3: Maximum conducted output power

## Test Result PK

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | -0.38 | ≤20.97 | PASS |
| | | 2441 | -1.03 | ≤20.97 | PASS |
| | | 2480 | -1.34 | ≤20.97 | PASS |
| 3DH5 | Ant1 | 2402 | 0.20 | ≤20.97 | PASS |
| | | 2441 | -0.66 | ≤20.97 | PASS |
| | | 2480 | -1.00 | ≤20.97 | PASS |

## Test Graphs PK

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480

# Appendix A.4: Carrier frequency separation

## Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|
| DH5 | Ant1 | Hop | 0.77 | ≥0.632 | PASS |
| 3DH5 | Ant1 | Hop | 1.018 | ≥0.886 | PASS |

## Test Graphs

DH5_Ant1_Hop

3DH5_Ant1_Hop

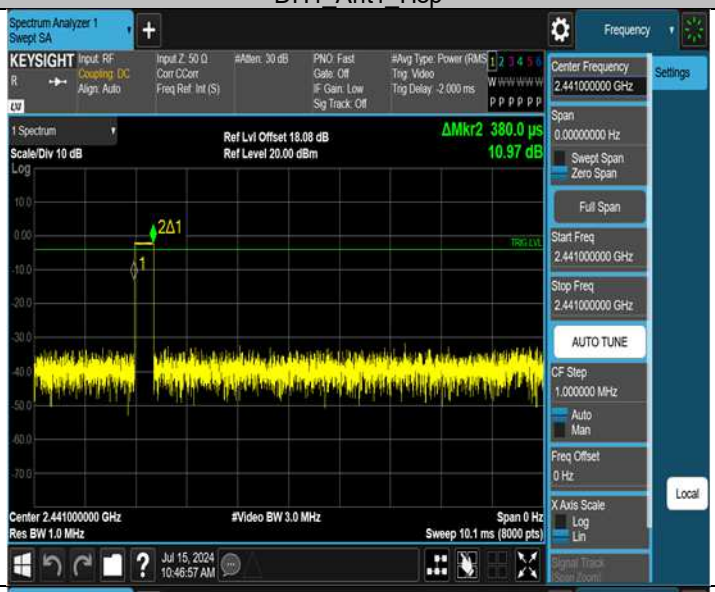
# Appendix A.5: Time of occupancy

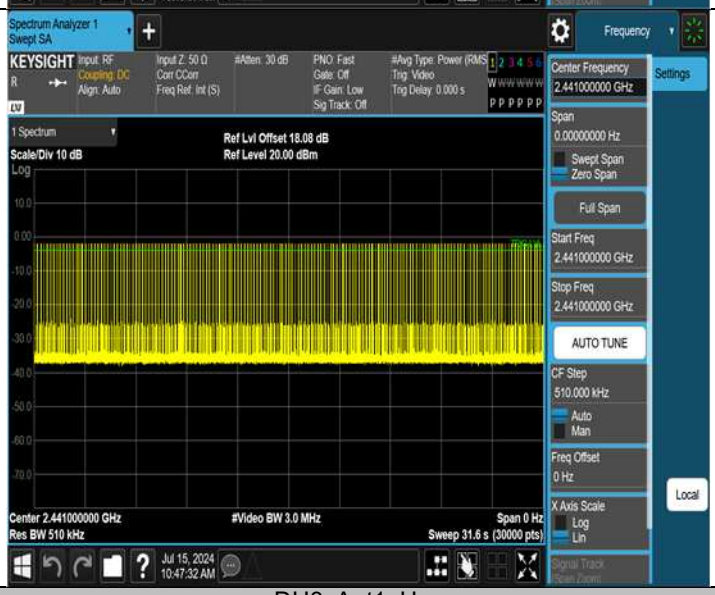
## Test Result

| TestMode | Antenna | Channel | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|---|---|---|---|---|---|---|---|
| DH1 | Ant1 | Hop | 0.380 | 319 | 0.121 | ≤0.4 | PASS |
| DH3 | Ant1 | Hop | 1.637 | 158 | 0.259 | ≤0.4 | PASS |
| DH5 | Ant1 | Hop | 2.885 | 109 | 0.314 | ≤0.4 | PASS |
| 3DH1 | Ant1 | Hop | 0.390 | 319 | 0.124 | ≤0.4 | PASS |
| 3DH3 | Ant1 | Hop | 1.642 | 168 | 0.276 | ≤0.4 | PASS |
| 3DH5 | Ant1 | Hop | 2.892 | 108 | 0.312 | ≤0.4 | PASS |

## Test Graphs

DH1_Ant1_Hop



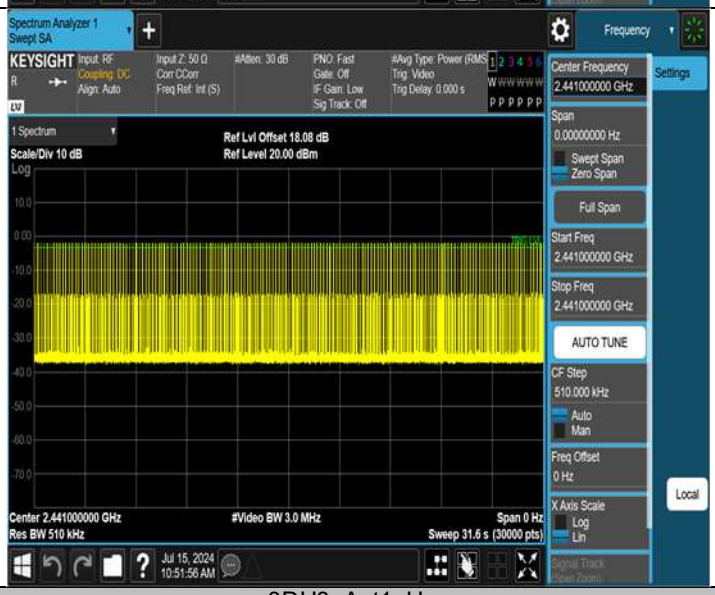

DH3_Ant1_Hop

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Ref Lvl Offset 18.08 dB
Ref Level 20.00 dBm
Scale/Div 10 dB
ΔMkr2 1.637 ms
4.95 dB
2Δ1
Center 2.441000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)
Jul 15, 2024
10:47:58 AM
Center Frequency
2.441000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Ref Lvl Offset 18.08 dB
Ref Level 20.00 dBm
Scale/Div 10 dB
Center 2.441000000 GHz
Res BW 510 kHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Jul 15, 2024
10:48:33 AM
Center Frequency
2.441000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

DH5_Ant1_Hop

3DH1_Ant1_Hop




3DH3_Ant1_Hop

3DH5_Ant1_Hop

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: -2.000 ms
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.08 dB
Ref Level 20.00 dBm
ΔMkr2 2.892 ms
10.53 dB
2Δ1
Center 2.441000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)
Jul 15, 2024
10:50:14 AM
Frequency
Settings
Center Frequency
2.441000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: 0.000 s
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 18.08 dB
Ref Level 20.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Jul 15, 2024
10:50:56 AM
Frequency
Settings
Center Frequency
2.441000000 GHz
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

# Appendix A.6: Number of hopping channels

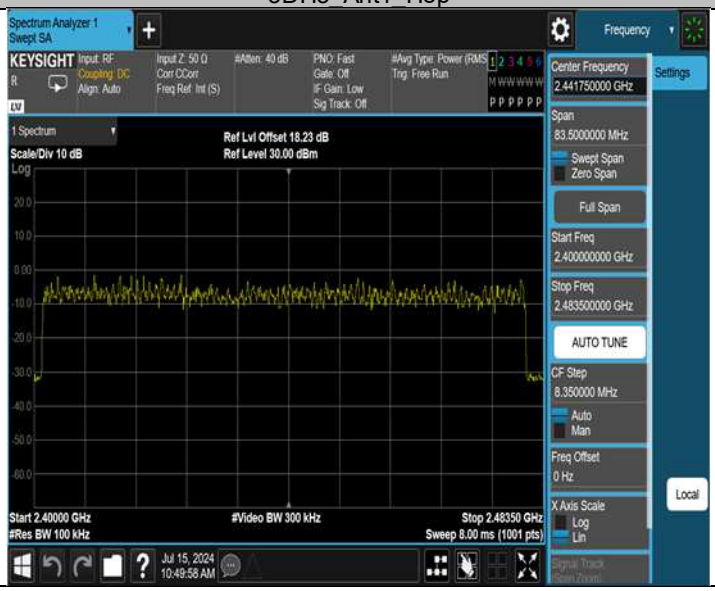
## Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|---|---|---|---|---|---|
| DH5 | Ant1 | Hop | 79 | ≥15 | PASS |
| 3DH5 | Ant1 | Hop | 79 | ≥15 | PASS |

## Test Graphs

DH5_Ant1_Hop

3DH5_Ant1_Hop



# Appendix A.7: Band edge measurements

## Test Result

| TestMode | Antenna | ChName | Channel | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | Low | 2402 | -1.73 | -39.70 | ≤-21.73 | PASS |
| DH5 | Ant1 | High | 2480 | -2.70 | -42.58 | ≤-22.70 | PASS |
| 3DH5 | Ant1 | Low | 2402 | -1.59 | -40.76 | ≤-21.59 | PASS |
| 3DH5 | Ant1 | High | 2480 | -2.68 | -43.91 | ≤-22.68 | PASS |
| DH5 | Ant1 | Hopping | 2402 | -1.72 | -42.85 | ≤-21.72 | PASS |
| DH5 | Ant1 | Hopping | 2480 | -3.47 | -43.25 | ≤-23.47 | PASS |
| 3DH5 | Ant1 | Hopping | 2402 | -2.12 | -45.37 | ≤-22.12 | PASS |
| 3DH5 | Ant1 | Hopping | 2480 | -6.23 | -44.04 | ≤-26.23 | PASS |

## Test Graphs

DH5_Ant1_Low_2402

DH5_Ant1_High_2480

3DH5_Ant1_Low_2402

3DH5_Ant1_High_2480

DH5_Ant1_Hopping_2402

DH5_Ant1_Hopping_2480

3DH5_Ant1_Hopping_2402

3DH5_Ant1_Hopping_2480

# Appendix A.8: Conducted Spurious Emission

## Test Result

| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | Reference | -2.50 | -2.50 | --- | PASS |
| | | | 30~1000 | -2.50 | -41.6 | ≤-22.5 | PASS |
| | | | 1000~26500 | -2.50 | -32.22 | ≤-22.5 | PASS |
| | | 2441 | Reference | -3.00 | -3.00 | --- | PASS |
| | | | 30~1000 | -3.00 | -42.11 | ≤-23 | PASS |
| | | | 1000~26500 | -3.00 | -32.84 | ≤-23 | PASS |
| | | 2480 | Reference | -3.46 | -3.46 | --- | PASS |
| | | | 30~1000 | -3.46 | -42.36 | ≤-23.46 | PASS |
| | | | 1000~26500 | -3.46 | -32.43 | ≤-23.46 | PASS |
| 3DH5 | Ant1 | 2402 | Reference | -5.58 | -5.58 | --- | PASS |
| | | | 30~1000 | -5.58 | -41.92 | ≤-25.58 | PASS |
| | | | 1000~26500 | -5.58 | -32.6 | ≤-25.58 | PASS |
| | | 2441 | Reference | -3.64 | -3.64 | --- | PASS |
| | | | 30~1000 | -3.64 | -42.4 | ≤-23.64 | PASS |
| | | | 1000~26500 | -3.64 | -31.97 | ≤-23.64 | PASS |
| | | 2480 | Reference | -5.93 | -5.93 | --- | PASS |
| | | | 30~1000 | -5.93 | -42.49 | ≤-25.93 | PASS |
| | | | 1000~26500 | -5.93 | -33.05 | ≤-25.93 | PASS |

## Test Graphs

DH5_Ant1_2402_0~Reference

DH5_Ant1_2402_30~1000

DH5_Ant1_2402_1000~26500

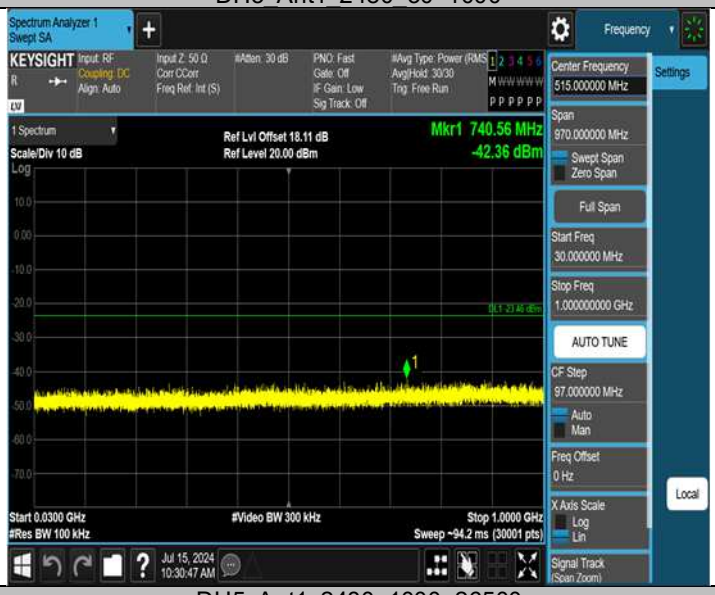
DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000




DH5_Ant1_2480_1000~26500

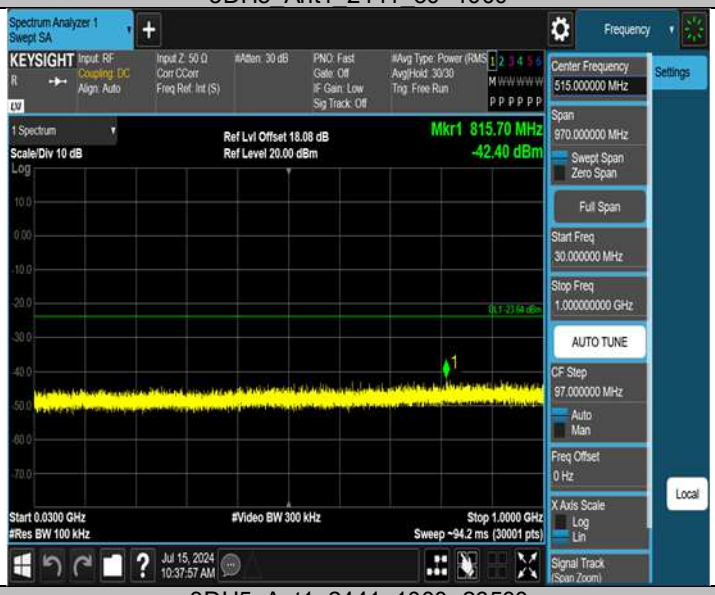
3DH5_Ant1_2402_0~Reference

3DH5_Ant1_2402_30~1000

3DH5_Ant1_2402_1000~26500

3DH5_Ant1_2441_0~Reference

3DH5_Ant1_2441_30~1000




3DH5_Ant1_2441_1000~26500

3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000

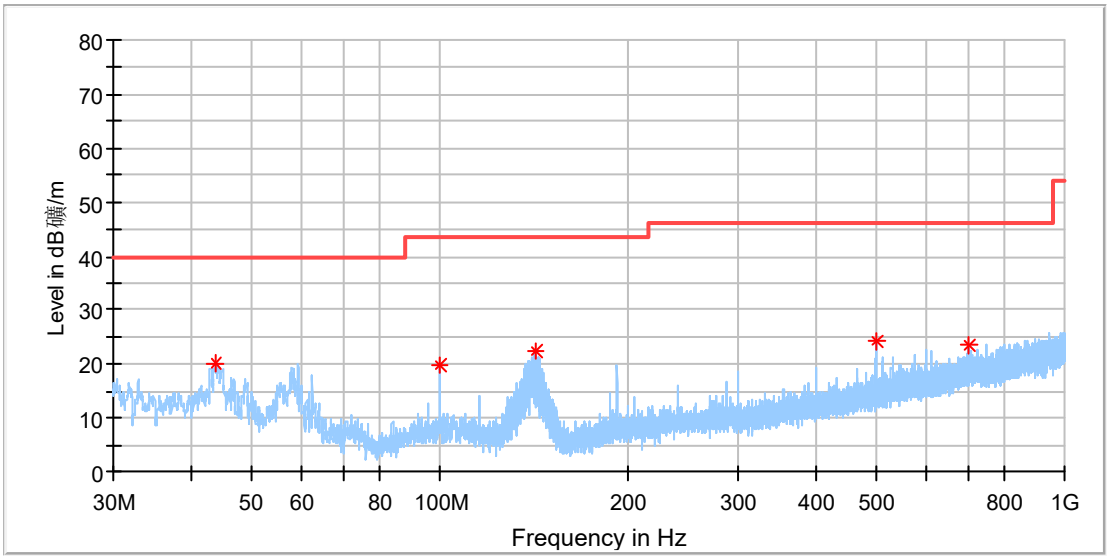
3DH5_Ant1_2480_1000~26500

# Appendix A.9: Test Results of Radiated Spurious Emissions

Note:
1) This testing was carried out on different modulations, but only the worst case was presented in this report.
2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

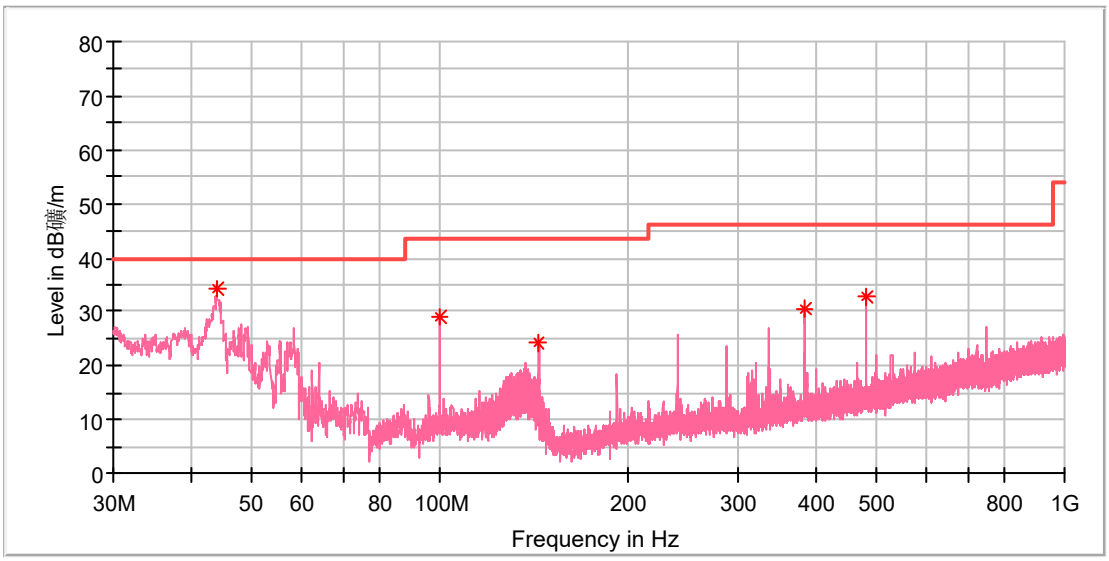
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 43.691923 | 20.16 | 40.00 | 19.84 | 100.0 | H | 103.0 | -19.4 |
| 99.989231 | 19.89 | 43.50 | 23.61 | 100.0 | H | 134.0 | -19.3 |
| 142.408077 | 22.36 | 43.50 | 21.14 | 100.0 | H | 78.0 | -22.6 |
| 500.002308 | 24.23 | 46.00 | 21.77 | 100.0 | H | 187.0 | -12.2 |
| 700.046154 | 23.46 | 46.00 | 22.54 | 100.0 | H | 0.0 | -8.4 |

## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

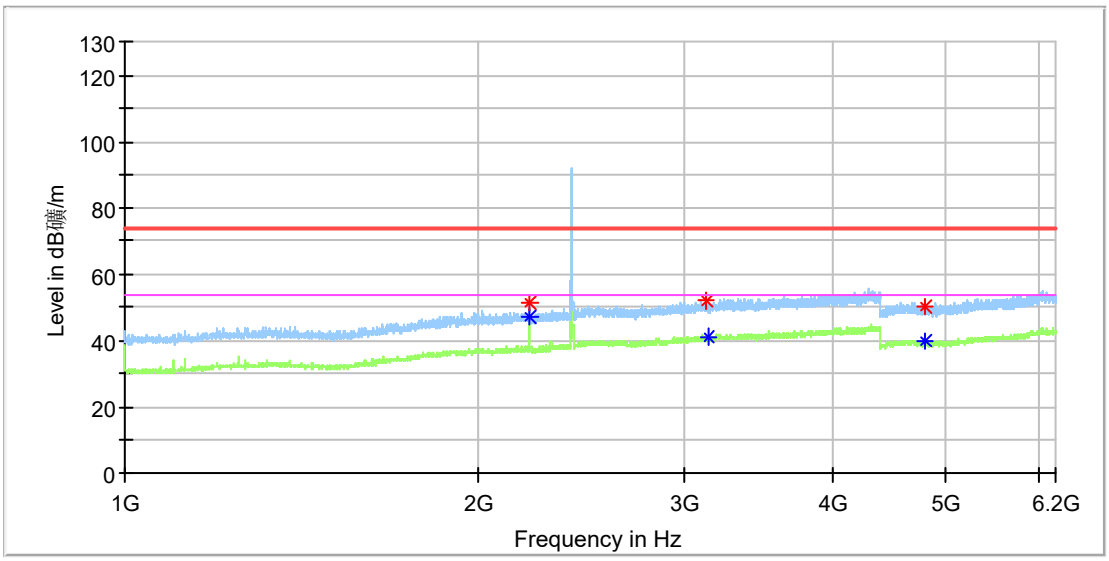
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 44.027692 | 34.15 | 40.00 | 5.85 | 100.0 | V | 140.0 | -19.3 |
| 99.989231 | 29.06 | 43.50 | 14.44 | 100.0 | V | 168.0 | -19.3 |
| 144.012308 | 24.36 | 43.50 | 19.14 | 100.0 | V | 6.0 | -22.6 |
| 383.900769 | 30.47 | 46.00 | 15.53 | 100.0 | V | 159.0 | -14.5 |
| 480.042692 | 32.72 | 46.00 | 13.28 | 100.0 | V | 53.0 | -12.6 |

## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Low Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

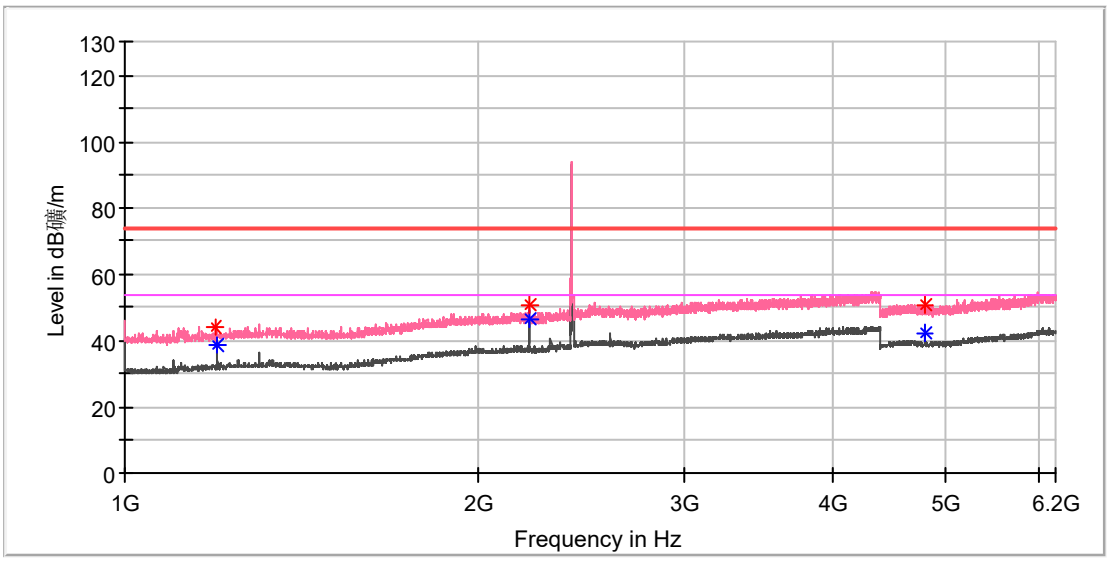
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2210.000000 | 51.36 | --- | 74.00 | 22.64 | 150.0 | H | 40.0 | 6.3 |
| 2210.000000 | --- | 47.27 | 54.00 | 6.73 | 150.0 | H | 40.0 | 6.3 |
| 3123.000000 | 51.97 | --- | 74.00 | 22.03 | 150.0 | H | 2.0 | 8.6 |
| 3138.500000 | --- | 41.00 | 54.00 | 13.00 | 150.0 | H | 127.0 | 8.6 |
| 4798.000000 | 50.42 | --- | 74.00 | 23.58 | 150.0 | H | 214.0 | 11.8 |
| 4801.000000 | --- | 39.84 | 54.00 | 14.16 | 150.0 | H | 315.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Low Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

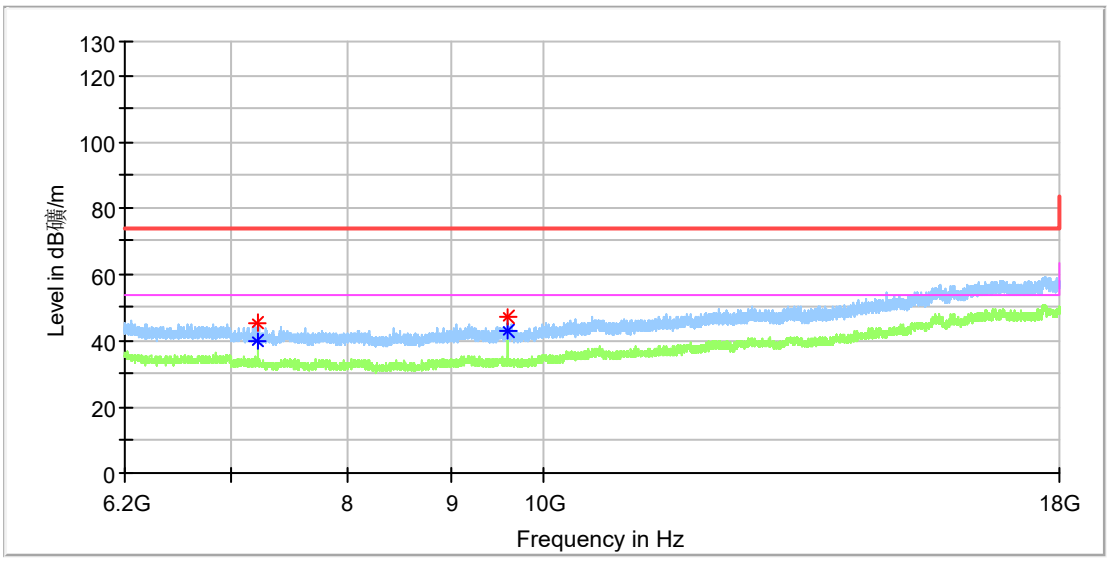
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1194.000000 | 44.42 | --- | 74.00 | 29.58 | 150.0 | V | 17.0 | 1.1 |
| 1200.000000 | --- | 38.58 | 54.00 | 15.42 | 150.0 | V | 50.0 | 1.1 |
| 2210.000000 | --- | 46.69 | 54.00 | 7.31 | 150.0 | V | 288.0 | 6.3 |
| 2210.000000 | 50.86 | --- | 74.00 | 23.14 | 150.0 | V | 288.0 | 6.3 |
| 4800.500000 | 50.87 | --- | 74.00 | 23.13 | 150.0 | V | 329.0 | 11.8 |
| 4804.000000 | --- | 42.32 | 54.00 | 11.68 | 150.0 | V | 251.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Low Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

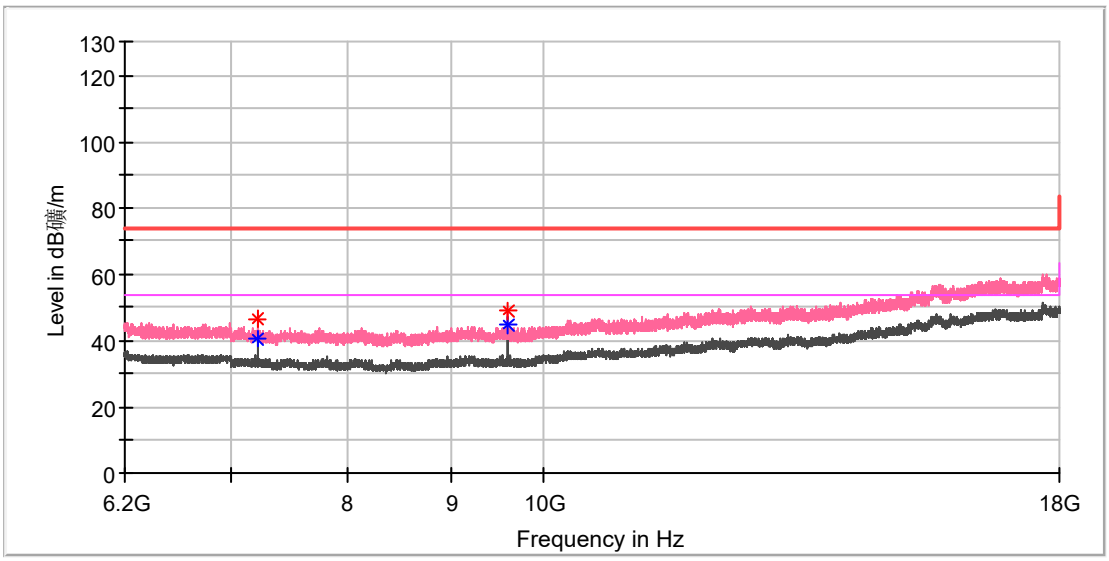
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7205.458333 | 45.49 | --- | 74.00 | 28.51 | 150.0 | H | 291.0 | 8.8 |
| 7205.950000 | --- | 40.05 | 54.00 | 13.95 | 150.0 | H | 291.0 | 8.8 |
| 9601.841667 | --- | 43.19 | 54.00 | 10.81 | 150.0 | H | 98.0 | 10.4 |
| 9602.333333 | 47.17 | --- | 74.00 | 26.83 | 150.0 | H | 98.0 | 10.4 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Low Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

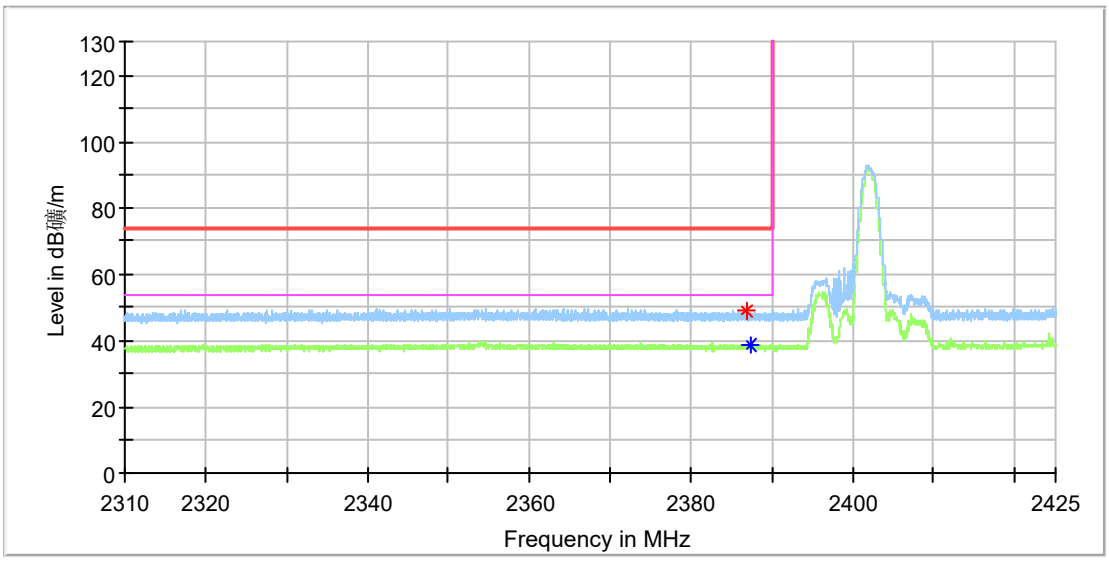
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7205.950000 | --- | 40.27 | 54.00 | 13.73 | 150.0 | V | 255.0 | 8.8 |
| 7206.441667 | 46.48 | --- | 74.00 | 27.52 | 150.0 | V | 230.0 | 8.8 |
| 9601.841667 | --- | 44.86 | 54.00 | 9.14 | 150.0 | V | 230.0 | 10.4 |
| 9602.333333 | 48.80 | --- | 74.00 | 25.20 | 150.0 | V | 230.0 | 10.4 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_low channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

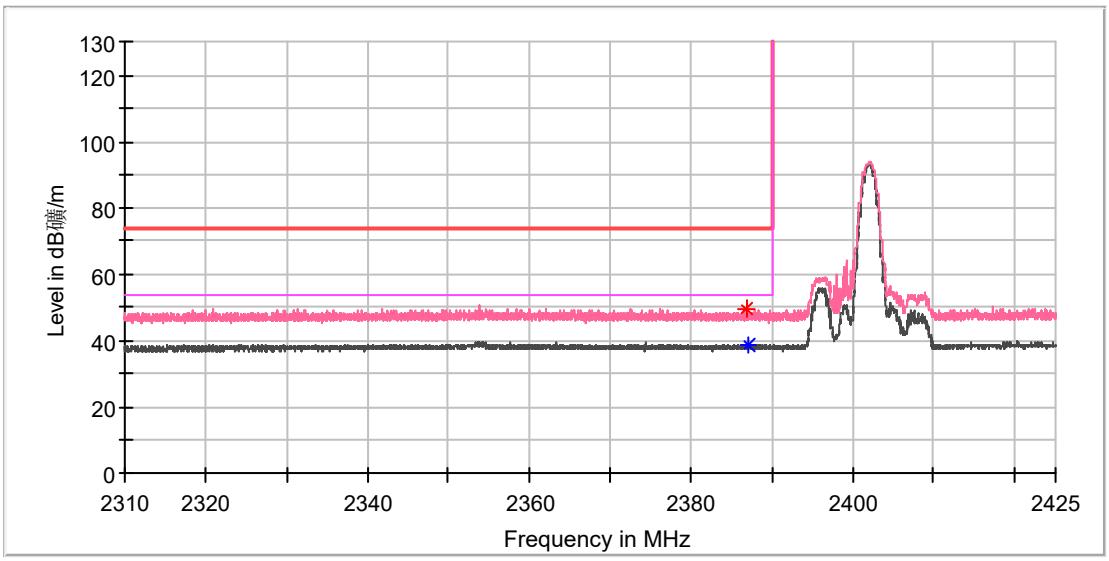
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2386.897794 | 49.06 | --- | 74.00 | 24.94 | 150.0 | H | 108.0 | 7.0 |
| 2387.269853 | --- | 38.83 | 54.00 | 15.17 | 150.0 | H | 137.0 | 7.0 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_low channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

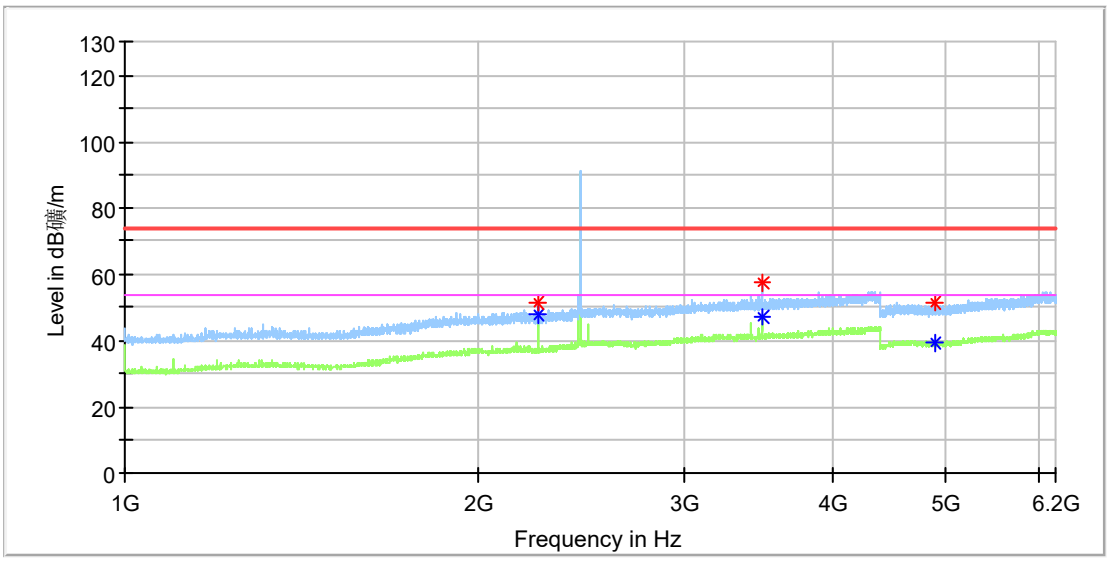
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2386.779412 | 49.49 | --- | 74.00 | 24.51 | 150.0 | V | 280.0 | 7.0 |
| 2386.982353 | --- | 38.87 | 54.00 | 15.13 | 150.0 | V | 51.0 | 7.0 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

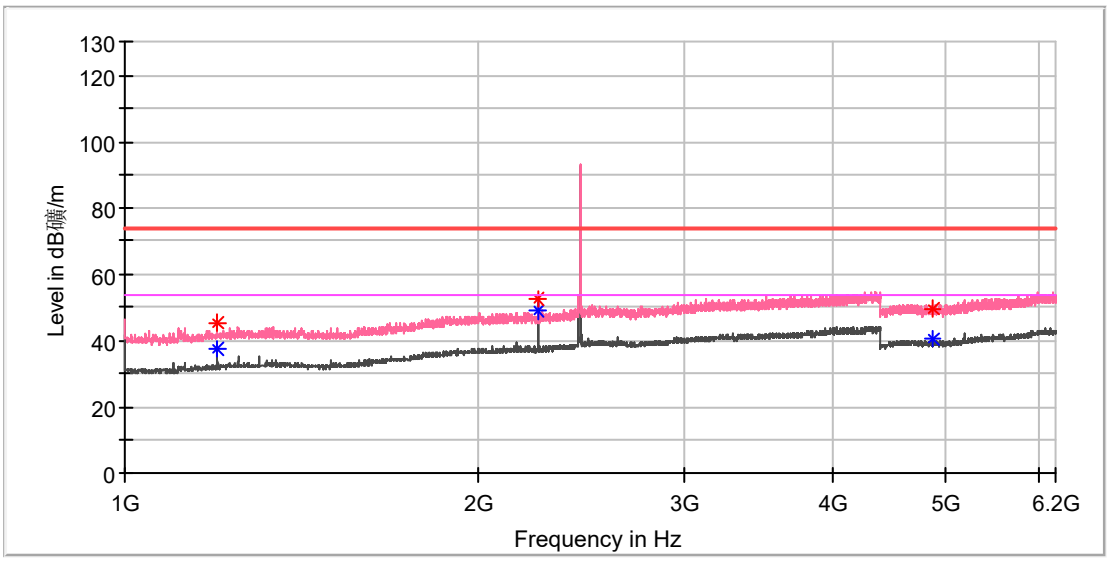
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2248.500000 | 51.52 | --- | 74.00 | 22.48 | 150.0 | H | 92.0 | 6.5 |
| 2249.000000 | --- | 47.78 | 54.00 | 6.22 | 150.0 | H | 58.0 | 6.5 |
| 3486.000000 | 57.59 | --- | 74.00 | 16.41 | 150.0 | H | 295.0 | 8.9 |
| 3486.000000 | --- | 47.26 | 54.00 | 6.74 | 150.0 | H | 295.0 | 8.9 |
| 4889.000000 | 51.43 | --- | 74.00 | 22.57 | 150.0 | H | 248.0 | 11.8 |
| 4889.500000 | --- | 39.34 | 54.00 | 14.66 | 150.0 | H | 87.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

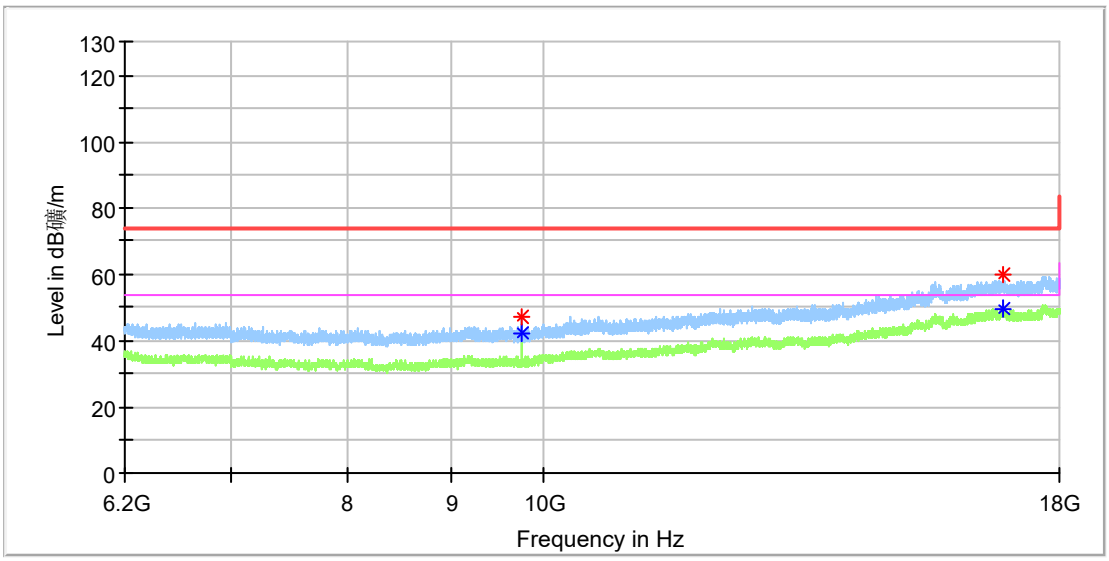
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1200.000000 | --- | 37.52 | 54.00 | 16.48 | 150.0 | V | 215.0 | 1.1 |
| 1200.000000 | 45.15 | --- | 74.00 | 28.85 | 150.0 | V | 215.0 | 1.1 |
| 2249.000000 | --- | 48.74 | 54.00 | 5.26 | 150.0 | V | 82.0 | 6.5 |
| 2249.000000 | 52.78 | --- | 74.00 | 21.22 | 150.0 | V | 82.0 | 6.5 |
| 4878.500000 | 49.66 | --- | 74.00 | 24.34 | 150.0 | V | 65.0 | 11.8 |
| 4882.000000 | --- | 40.34 | 54.00 | 13.66 | 150.0 | V | 38.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

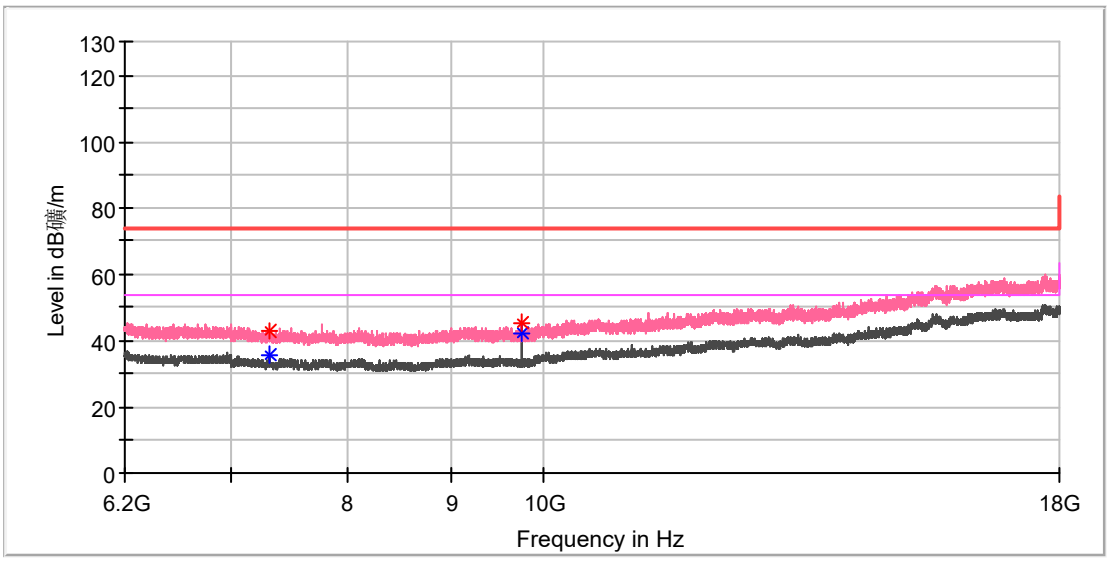
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 9753.766667 | 47.14 | --- | 74.00 | 26.86 | 150.0 | H | 97.0 | 10.4 |
| 9753.766667 | --- | 42.53 | 54.00 | 11.47 | 150.0 | H | 97.0 | 10.4 |
| 16882.933333 | --- | 49.66 | 54.00 | 4.34 | 150.0 | H | 132.0 | 22.2 |
| 16894.733333 | 59.58 | --- | 74.00 | 14.42 | 150.0 | H | 359.0 | 22.3 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_Mid channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

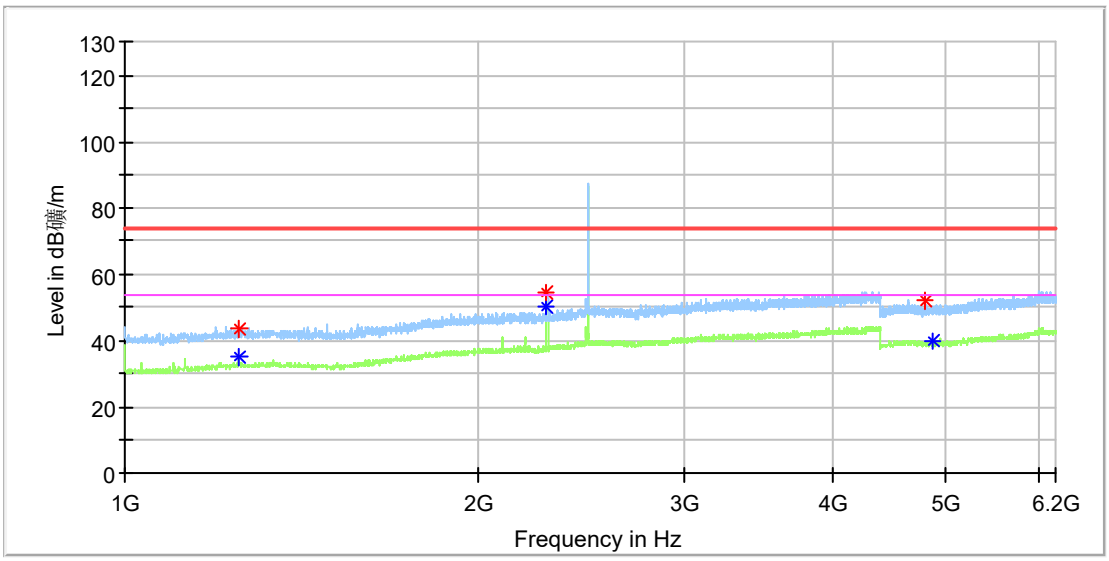
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7314.116667 | 43.13 | --- | 74.00 | 30.87 | 150.0 | V | 286.0 | 8.2 |
| 7314.116667 | --- | 35.81 | 54.00 | 18.19 | 150.0 | V | 286.0 | 8.2 |
| 9753.766667 | --- | 42.09 | 54.00 | 11.91 | 150.0 | V | 246.0 | 10.4 |
| 9754.750000 | 45.11 | --- | 74.00 | 28.89 | 150.0 | V | 246.0 | 10.4 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

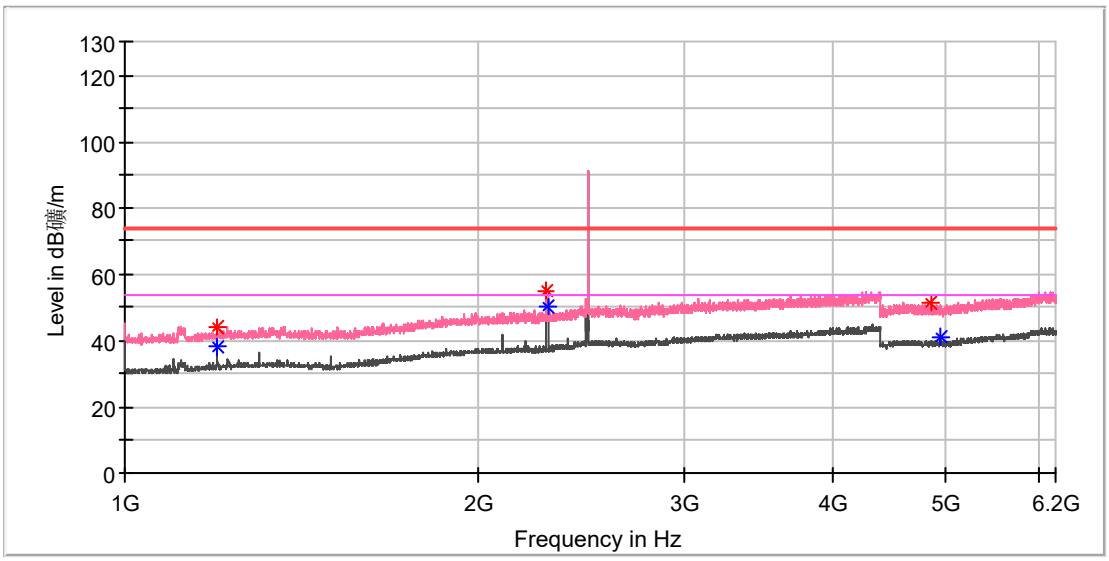
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1249.500000 | 43.57 | --- | 74.00 | 30.43 | 150.0 | H | 220.0 | 1.9 |
| 1250.000000 | --- | 34.81 | 54.00 | 19.19 | 150.0 | H | 0.0 | 1.9 |
| 2287.500000 | 54.12 | --- | 74.00 | 19.88 | 150.0 | H | 33.0 | 6.4 |
| 2287.500000 | --- | 50.38 | 54.00 | 3.62 | 150.0 | H | 33.0 | 6.4 |
| 4804.000000 | 51.73 | --- | 74.00 | 22.27 | 150.0 | H | 345.0 | 11.8 |
| 4869.500000 | --- | 39.64 | 54.00 | 14.36 | 150.0 | H | 1.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

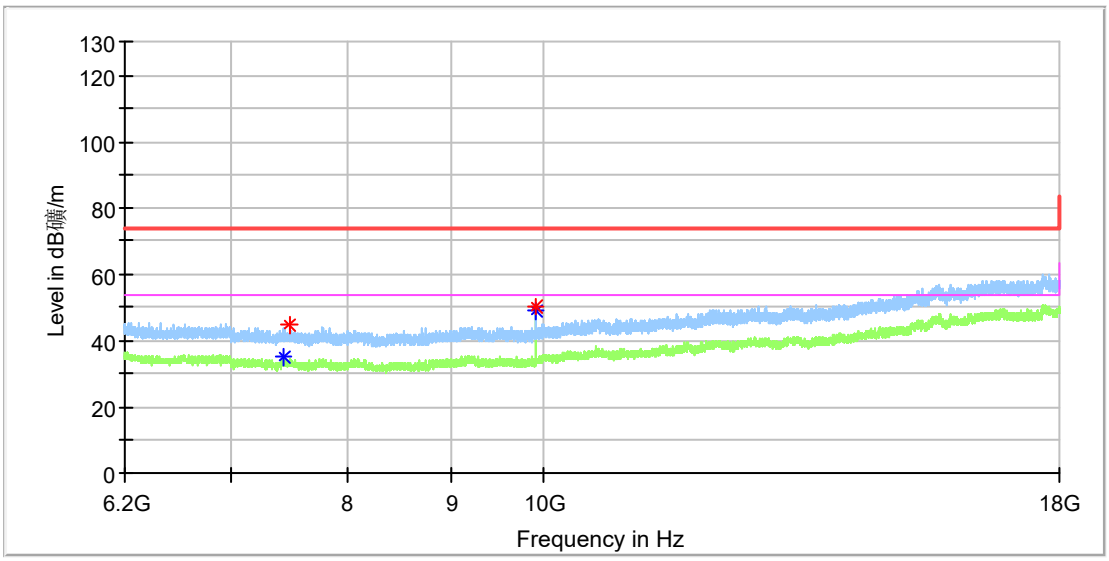
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1200.000000 | --- | 37.99 | 54.00 | 16.01 | 150.0 | V | 220.0 | 1.1 |
| 1200.000000 | 44.16 | --- | 74.00 | 29.84 | 150.0 | V | 220.0 | 1.1 |
| 2288.000000 | 55.26 | --- | 74.00 | 18.74 | 150.0 | V | 60.0 | 6.4 |
| 2288.500000 | --- | 50.45 | 54.00 | 3.55 | 150.0 | V | 60.0 | 6.4 |
| 4850.500000 | 51.63 | --- | 74.00 | 22.37 | 150.0 | V | 1.0 | 11.8 |
| 4957.000000 | --- | 41.28 | 54.00 | 12.72 | 150.0 | V | 261.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

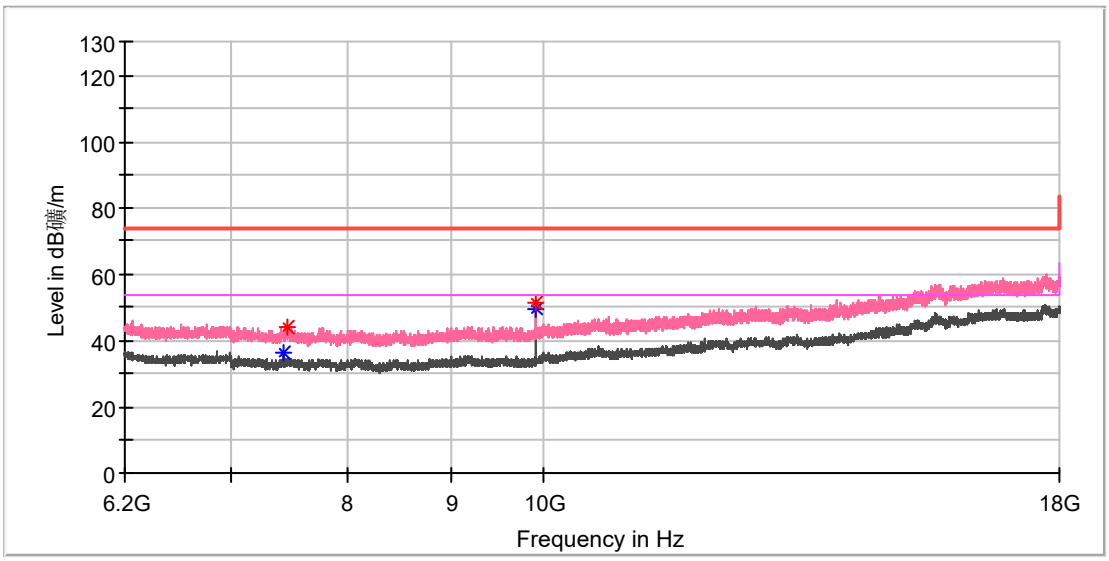
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7433.591667 | --- | 35.14 | 54.00 | 18.86 | 150.0 | H | 275.0 | 8.4 |
| 7483.250000 | 44.68 | --- | 74.00 | 29.32 | 150.0 | H | 154.0 | 8.7 |
| 9914.050000 | --- | 49.11 | 54.00 | 4.89 | 150.0 | H | 96.0 | 10.8 |
| 9914.050000 | 50.40 | --- | 74.00 | 23.60 | 150.0 | H | 96.0 | 10.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High Channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

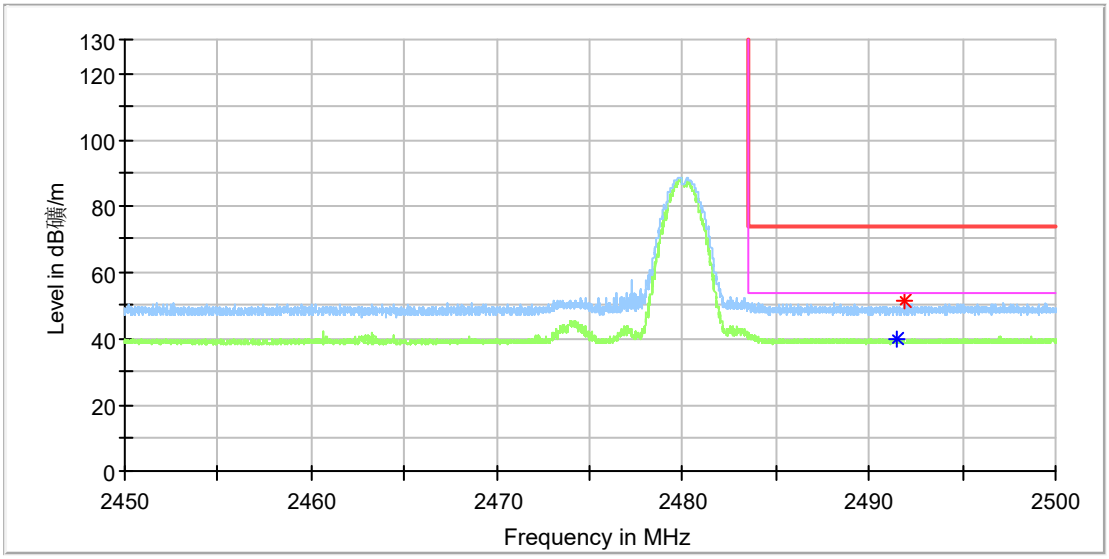
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7434.083333 | --- | 36.03 | 54.00 | 17.97 | 150.0 | V | 165.0 | 8.4 |
| 7468.500000 | 44.32 | --- | 74.00 | 29.68 | 150.0 | V | 81.0 | 8.6 |
| 9914.050000 | --- | 49.47 | 54.00 | 4.53 | 150.0 | V | 227.0 | 10.8 |
| 9914.050000 | 51.24 | --- | 74.00 | 22.76 | 150.0 | V | 227.0 | 10.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

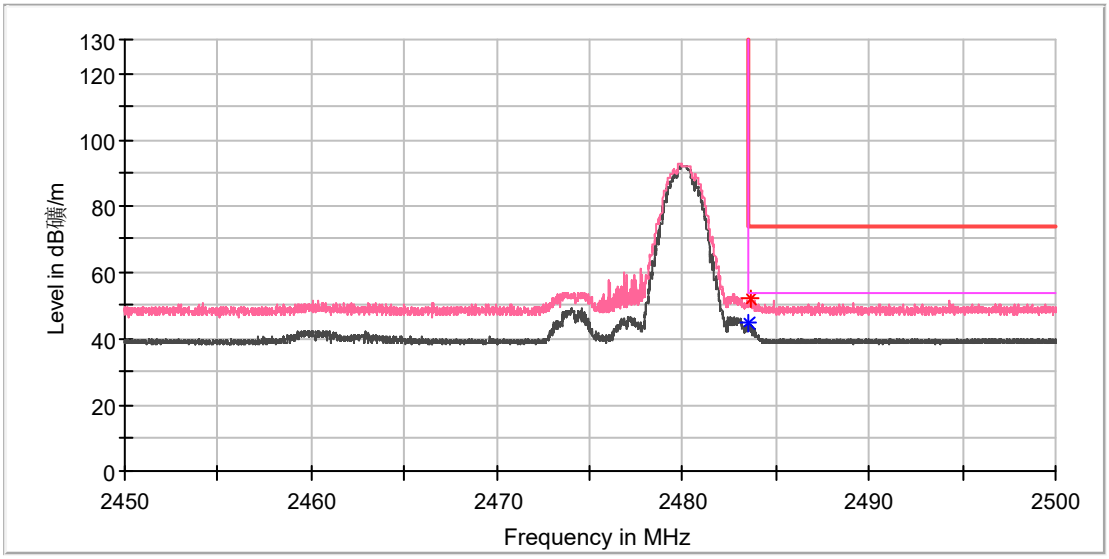
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2491.507353 | --- | 40.00 | 54.00 | 14.00 | 150.0 | H | 0.0 | 7.4 |
| 2491.919118 | 51.42 | --- | 74.00 | 22.58 | 150.0 | H | 6.0 | 7.4 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | BR DH5_High channel |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2483.514706 | --- | 44.56 | 54.00 | 9.44 | 150.0 | V | 67.0 | 7.4 |
| 2483.661765 | 52.00 | --- | 74.00 | 22.00 | 150.0 | V | 60.0 | 7.4 |

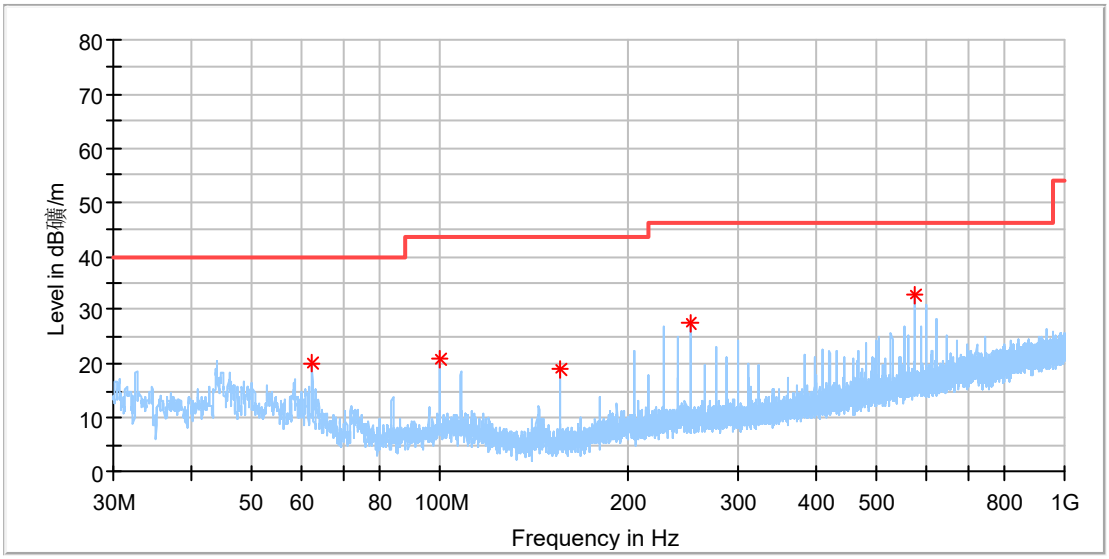
## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

# Appendix A.10: Test Results of Radiated Spurious Emissions for co-location confiuration

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

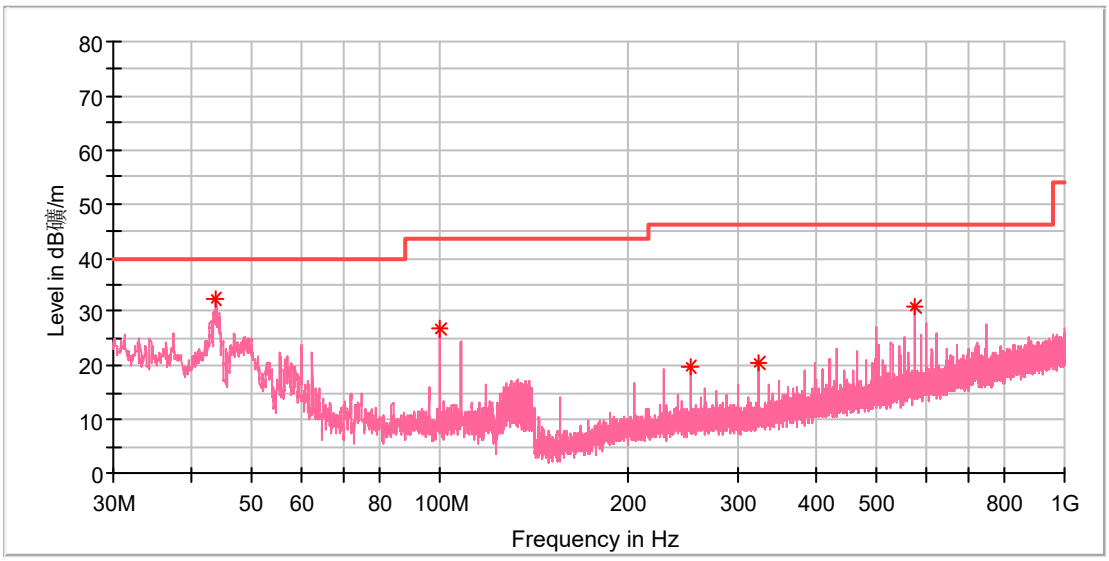
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 62.495000 | 20.16 | 40.00 | 19.84 | 100.0 | H | 264.0 | -19.9 |
| 99.989231 | 20.77 | 43.50 | 22.73 | 100.0 | H | 28.0 | -19.3 |
| 156.025385 | 18.91 | 43.50 | 24.59 | 100.0 | H | 43.0 | -22.2 |
| 252.018077 | 27.40 | 46.00 | 18.60 | 100.0 | H | 286.0 | -17.6 |
| 576.035385 | 32.88 | 46.00 | 13.12 | 100.0 | H | 150.0 | -10.7 |

## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

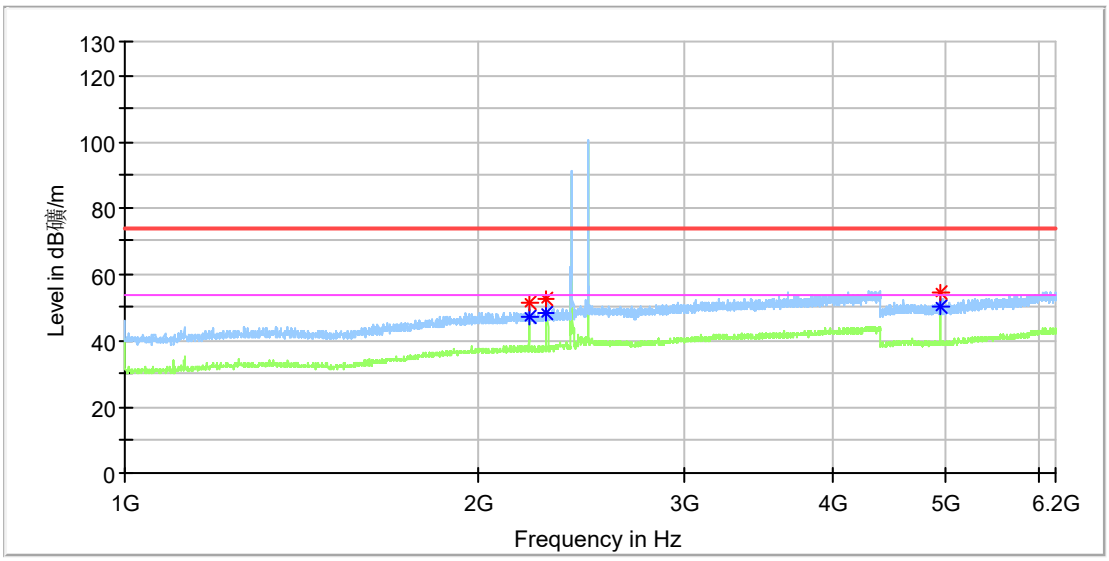
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 43.729231 | 32.38 | 40.00 | 7.62 | 100.0 | V | 133.0 | -19.4 |
| 99.989231 | 26.80 | 43.50 | 16.70 | 100.0 | V | 35.0 | -19.3 |
| 252.018077 | 19.81 | 46.00 | 26.19 | 100.0 | V | 28.0 | -17.6 |
| 324.021923 | 20.37 | 46.00 | 25.63 | 100.0 | V | 111.0 | -15.9 |
| 576.035385 | 30.84 | 46.00 | 15.16 | 100.0 | V | 73.0 | -10.7 |

## Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

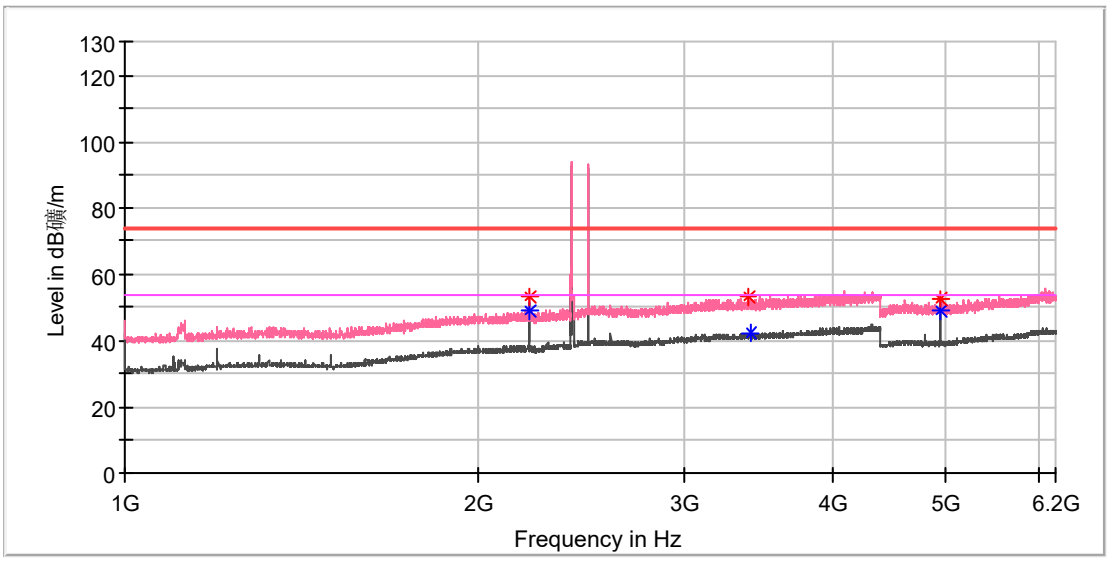
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2210.000000 | --- | 46.91 | 54.00 | 7.09 | 150.0 | H | 43.0 | 6.3 |
| 2210.500000 | 51.26 | --- | 74.00 | 22.74 | 150.0 | H | 43.0 | 6.3 |
| 2287.500000 | 52.42 | --- | 74.00 | 21.58 | 150.0 | H | 291.0 | 6.4 |
| 2288.000000 | --- | 48.23 | 54.00 | 5.77 | 150.0 | H | 317.0 | 6.4 |
| 4960.000000 | --- | 50.14 | 54.00 | 3.86 | 150.0 | H | 140.0 | 11.8 |
| 4960.000000 | 54.22 | --- | 74.00 | 19.78 | 150.0 | H | 140.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

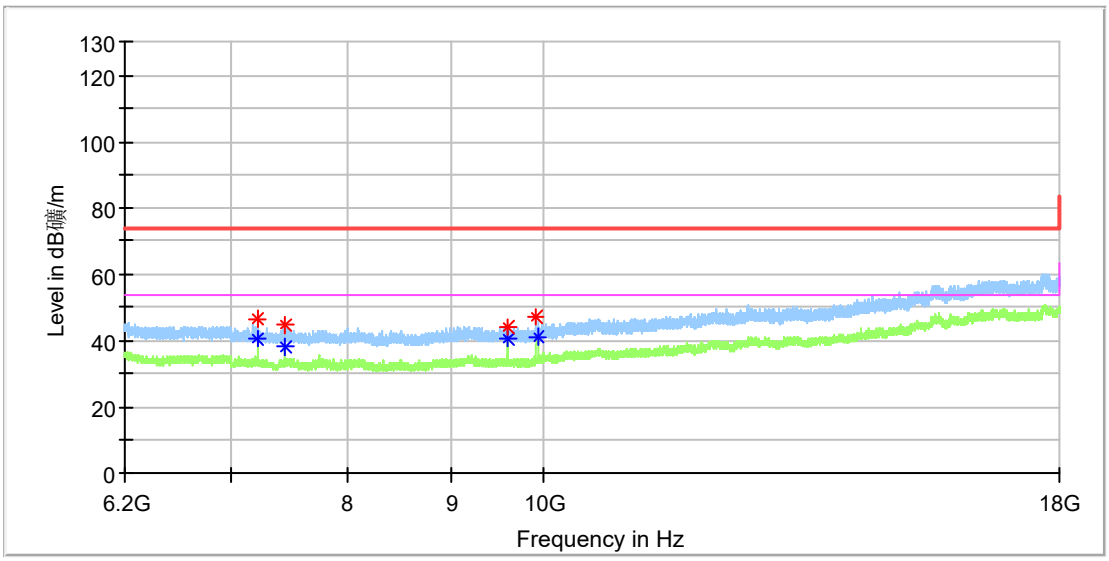
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2210.000000 | --- | 49.21 | 54.00 | 4.79 | 150.0 | V | 69.0 | 6.3 |
| 2210.000000 | 53.31 | --- | 74.00 | 20.69 | 150.0 | V | 69.0 | 6.3 |
| 3391.000000 | 52.93 | --- | 74.00 | 21.07 | 150.0 | V | 69.0 | 8.7 |
| 3414.500000 | --- | 42.21 | 54.00 | 11.79 | 150.0 | V | 86.0 | 8.7 |
| 4959.500000 | 52.53 | --- | 74.00 | 21.47 | 150.0 | V | 232.0 | 11.8 |
| 4960.000000 | --- | 48.72 | 54.00 | 5.28 | 150.0 | V | 142.0 | 11.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

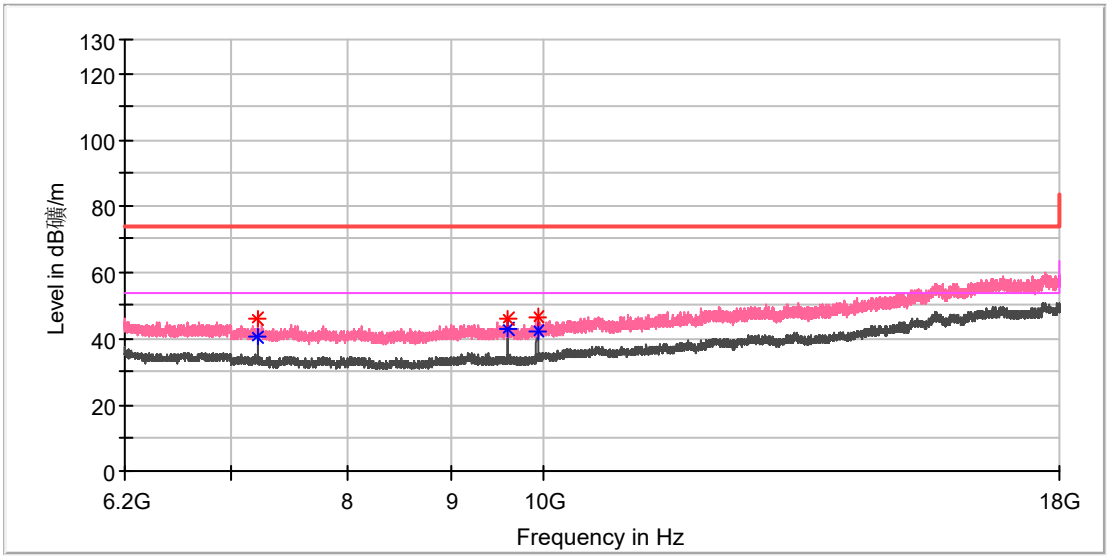
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7205.458333 | --- | 40.58 | 54.00 | 13.42 | 150.0 | H | 266.0 | 8.8 |
| 7205.950000 | 46.42 | --- | 74.00 | 27.58 | 150.0 | H | 42.0 | 8.8 |
| 7440.475000 | 44.64 | --- | 74.00 | 29.36 | 150.0 | H | 17.0 | 8.4 |
| 7440.475000 | --- | 37.89 | 54.00 | 16.11 | 150.0 | H | 17.0 | 8.4 |
| 9601.841667 | --- | 40.29 | 54.00 | 13.71 | 150.0 | H | 203.0 | 10.4 |
| 9602.333333 | 44.28 | --- | 74.00 | 29.72 | 150.0 | H | 203.0 | 10.4 |
| 9919.950000 | 46.97 | --- | 74.00 | 27.03 | 150.0 | H | 134.0 | 10.8 |
| 9920.441667 | --- | 41.41 | 54.00 | 12.59 | 150.0 | H | 134.0 | 10.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

## EUT Information

| | |
|---|---|
| EUT Name: | Bluetooth Speaker |
| Model: | X5i |
| Test Mode: | CO_BLE+BT |
| Order No/Sample No: | 168490934/A003762173-002 |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Lich Chen |
| Reviewed By: | Terry Yin |




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 7205.458333 | 45.99 | --- | 74.00 | 28.01 | 150.0 | V | 83.0 | 8.8 |
| 7205.950000 | --- | 40.78 | 54.00 | 13.22 | 150.0 | V | 72.0 | 8.8 |
| 9601.841667 | --- | 42.72 | 54.00 | 11.28 | 150.0 | V | 261.0 | 10.4 |
| 9601.841667 | 45.88 | --- | 74.00 | 28.12 | 150.0 | V | 261.0 | 10.4 |
| 9920.441667 | 46.38 | --- | 74.00 | 27.62 | 150.0 | V | 62.0 | 10.8 |
| 9920.441667 | --- | 42.06 | 54.00 | 11.94 | 150.0 | V | 62.0 | 10.8 |

## Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| --- | --- | --- | --- | --- | | --- | --- |

# Appendix A.11: Test Results of Conducted Emission on AC Mains

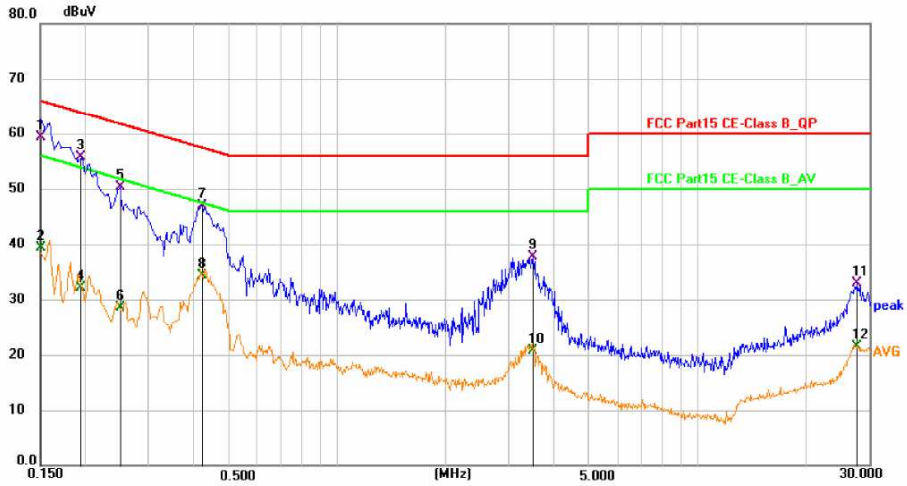
UnionTrust Quality Test, Quality Life.

Shenzhen UnionTrust Quality and Technology Co.,Ltd.

| | | | | | |
|---|---|---|---|---|---|
| Site LAB | | Phase: | *L1* | Temperature: | 23.1 ℃ |
| Limit: FCC Part15 CE-Class B_QP | | Power: | AC120V/60Hz | Humidity: | 53.3 %RH |
| EUT: Bluetooth Speaker X5i | | | | Air Pressure: | 100.5 kpa |
| M/N: 168490934 | | | | | |
| Mode: | | | | | |
| Note: Test Mode 1: AC120V/60Hz Charging +BT link(Microphone connection+ Mobile phone playback)+ lamplight | | | | | |

**Conducted Emission Measurement**

24070912571_168490934 Data :#1 Date: 2024/7/18 Time: 20:13:59




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 * | 0.1508 | 49.05 | 10.20 | 59.25 | 65.96 | -6.71 | QP | P | |
| 2 | 0.1508 | 29.02 | 10.20 | 39.22 | 55.96 | -16.74 | AVG | P | |
| 3 | 0.1949 | 45.47 | 10.16 | 55.63 | 63.83 | -8.20 | QP | P | |
| 4 | 0.1949 | 21.95 | 10.16 | 32.11 | 53.83 | -21.72 | AVG | P | |
| 5 | 0.2490 | 40.03 | 10.19 | 50.22 | 61.79 | -11.57 | QP | P | |
| 6 | 0.2490 | 18.37 | 10.19 | 28.56 | 51.79 | -23.23 | AVG | P | |
| 7 | 0.4200 | 36.77 | 10.13 | 46.90 | 57.45 | -10.55 | QP | P | |
| 8 | 0.4200 | 24.14 | 10.13 | 34.27 | 47.45 | -13.18 | AVG | P | |
| 9 | 3.5024 | 27.43 | 10.24 | 37.67 | 56.00 | -18.33 | QP | P | |
| 10 | 3.5024 | 10.54 | 10.24 | 20.78 | 46.00 | -25.22 | AVG | P | |
| 11 | 27.7845 | 21.96 | 10.88 | 32.84 | 60.00 | -27.16 | QP | P | |
| 12 | 27.7845 | 10.54 | 10.88 | 21.42 | 50.00 | -28.58 | AVG | P | |

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

*24070912571_168490934\Data :#1* *Page: 1* Engineer Signature: linson

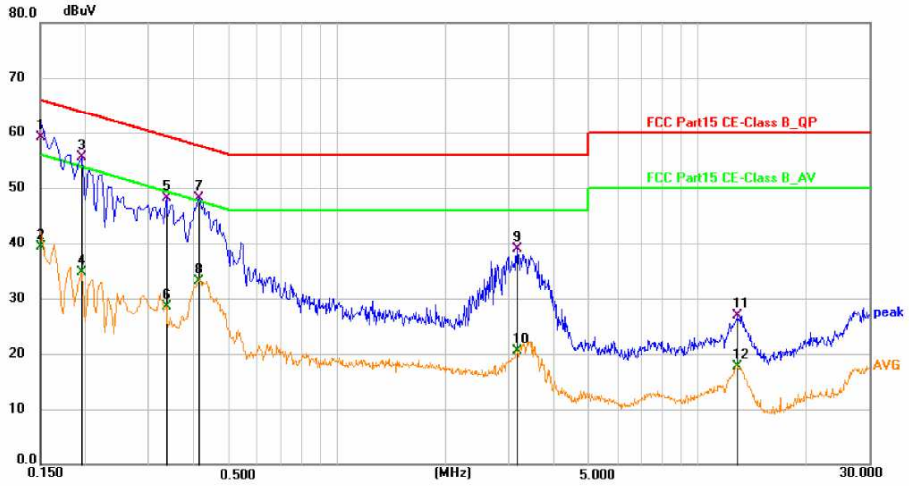
UnionTrust
Quality Test, Quality Life.

Shenzhen UnionTrust Quality and Technology Co.,Ltd.

| | | | | | |
|---|---|---|---|---|---|
| Site LAB | | Phase: | *N* | Temperature: | 23.1 ℃ |
| Limit: FCC Part15 CE-Class B_QP | | Power: | AC120V/60Hz | Humidity: | 53.3 %RH |
| EUT: Bluetooth Speaker X5i | | | | Air Pressure: | 100.5 kpa |
| M/N: 168490934 | | | | | |
| Mode: | | | | | |
| Note: Test Mode 1: AC120V/60Hz Charging +BT link(Microphone connection+ Mobile phone playback)+ lamplight | | | | | |

**Conducted Emission Measurement**

24070912571_168490934 Data :#2 Date: 2024/7/18 Time: 20:16:52




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 * | 0.1511 | 48.92 | 10.19 | 59.11 | 65.94 | -6.83 | QP | P | |
| 2 | 0.1511 | 29.06 | 10.19 | 39.25 | 55.94 | -16.69 | AVG | P | |
| 3 | 0.1955 | 45.37 | 10.06 | 55.43 | 63.80 | -8.37 | QP | P | |
| 4 | 0.1955 | 24.55 | 10.06 | 34.61 | 53.80 | -19.19 | AVG | P | |
| 5 | 0.3356 | 37.89 | 10.14 | 48.03 | 59.31 | -11.28 | QP | P | |
| 6 | 0.3356 | 18.32 | 10.14 | 28.46 | 49.31 | -20.85 | AVG | P | |
| 7 | 0.4127 | 37.91 | 10.20 | 48.11 | 57.59 | -9.48 | QP | P | |
| 8 | 0.4127 | 22.81 | 10.20 | 33.01 | 47.59 | -14.58 | AVG | P | |
| 9 | 3.1563 | 28.62 | 10.25 | 38.87 | 56.00 | -17.13 | QP | P | |
| 10 | 3.1563 | 10.20 | 10.25 | 20.45 | 46.00 | -25.55 | AVG | P | |
| 11 | 12.9199 | 16.33 | 10.55 | 26.88 | 60.00 | -33.12 | QP | P | |
| 12 | 12.9199 | 7.22 | 10.55 | 17.77 | 50.00 | -32.23 | AVG | P | |

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

*24070912571_168490934\Data :#2* *Page: 1* Engineer Signature: linson