



Report No.: TW2008237E
File reference No.: 2020-09-09

Applicant: Maxell Corporation of America

Product: Bluetooth Wireless Earphone

Model No.: Jelleez-TW

Trademark: MAXELL

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: September 09, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Maxell Corporation of America
Address: 3 Garret Mountain Plaza, Woodland Park, New Jersey 07424, United States
Telephone: --
Fax: --

1.3 Description of EUT

Product: Bluetooth Wireless Earphone
Manufacturer: Shenzhen Swetz Sound Technology Co., Limited
Address: No.18, Xiantian Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen, China
Brand Name: MAXELL
Model Number: Jelleez-TW
Additional Model Number: N/A
Type of Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK for Bluetooth
Frequency range: 2402-2480MHz for Bluetooth
Channel Spacing: 1MHz for Bluetooth
Frequency Selection: By software
Channel Number: 79 channels for Bluetooth
Antenna: PCB Antenna. The gain of the antennas is 1.0dBi (Declared by the applicant)
Input Voltage: DC5.0V
Battery: DC3.7V, 50mAh Li-ion battery

1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2020-08-24 to 2020-09-08

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB

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Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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| 2.0 Test Equipment | | | | | |
|--------------------|--------------|----------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2020-06-23 | 2021-06-22 |
| TWO Line-V-NETW | R&S | EZH3-Z5 | 100294 | 2020-06-23 | 2021-06-22 |
| TWO Line-V-NETW | R&S | EZH3-Z5 | 100253 | 2020-06-23 | 2021-06-22 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2020-06-23 | 2021-06-22 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2020-06-23 | 2021-06-22 |
| Spectrum | R&S | FSIQ26 | 100292 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2018-07-09 | 2021-07-08 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2020-06-23 | 2021-06-22 |
| Power sensor | Anritsu | MA2491A | 32263 | 2020-06-23 | 2021-06-22 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2018-07-04 | 2021-07-03 |
| 9*6*6 Anechoic | -- | -- | N/A | 2018-02-07 | 2021-02-06 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2020-06-23 | 2021-06-22 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2020-06-23 | 2021-06-22 |
| Spectrum | RS | FSP | 1164.4391.38 | 2020-01-18 | 2021-01-17 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | -- | 2020-06-23 | 2021-06-22 |
| RF Cable | Zhengdi | 7m | -- | 2020-06-23 | 2021-06-22 |
| RF Switch | EM | EMSW18 | 060391 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2020-06-23 | 2021-06-22 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2020-01-07 | 2021-01-06 |

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|--------------------------------------------------------------------|-------------------------------------------|--------|----------|
| Requirement | CFR 47 Section | Result | Notes |
| Antenna Requirement | 15.203, 15.247(b)(4) | PASS | Complies |
| Maximum Peak Out Power | 15.247 (b)(1), (4) | PASS | Complies |
| Carrier Frequency Separation | 15.247(a)(1) | PASS | Complies |
| 20dB Channel Bandwidth | 15.247 (a)(1) | PASS | Complies |
| Number of Hopping Channels | 15.247(a)(iii), 15.247(b)(1) | PASS | Complies |
| Time of Occupancy (Dwell Time) | 15.247(a)(iii) | PASS | Complies |
| Spurious Emission, Band Edge, and Restricted bands | 15.247(d),15.205(a), 15.209 (a),15.109 | PASS | Complies |
| Conducted Emissions | 15.207(a), 15.107 | PASS | Complies |
| RF Exposure | 15.247(i), 1.1307(b)(1) | PASS | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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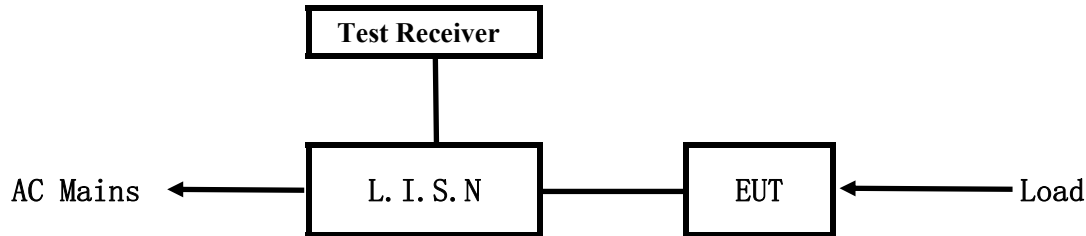
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



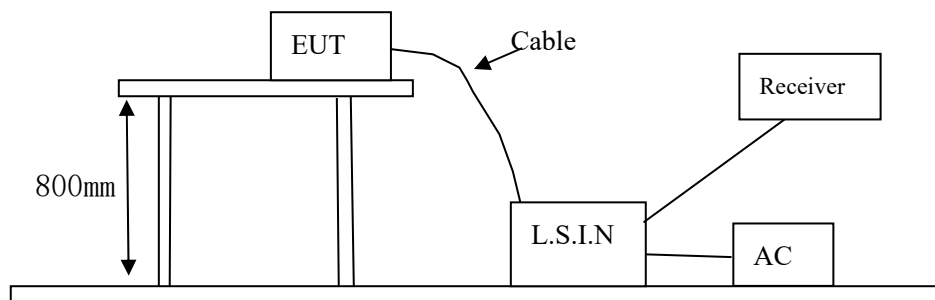
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

| Device | Manufacturer | Model | FCC ID |
|-----------------------------|----------------------------------------------|------------|-----------------|
| Bluetooth Wireless Earphone | Shenzhen Swetz Sound Technology Co., Limited | Jelleez-TW | WKA-SS-TW003B02 |

B. Internal Device

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------------|--------------|-----------------|---------------------------------------------------------|
| Power Supply | KEYU | KA23-0502000DEU | Input: 100-240V~, 50/60Hz, 0.35A; Output: DC3.7V, 2A |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|--------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

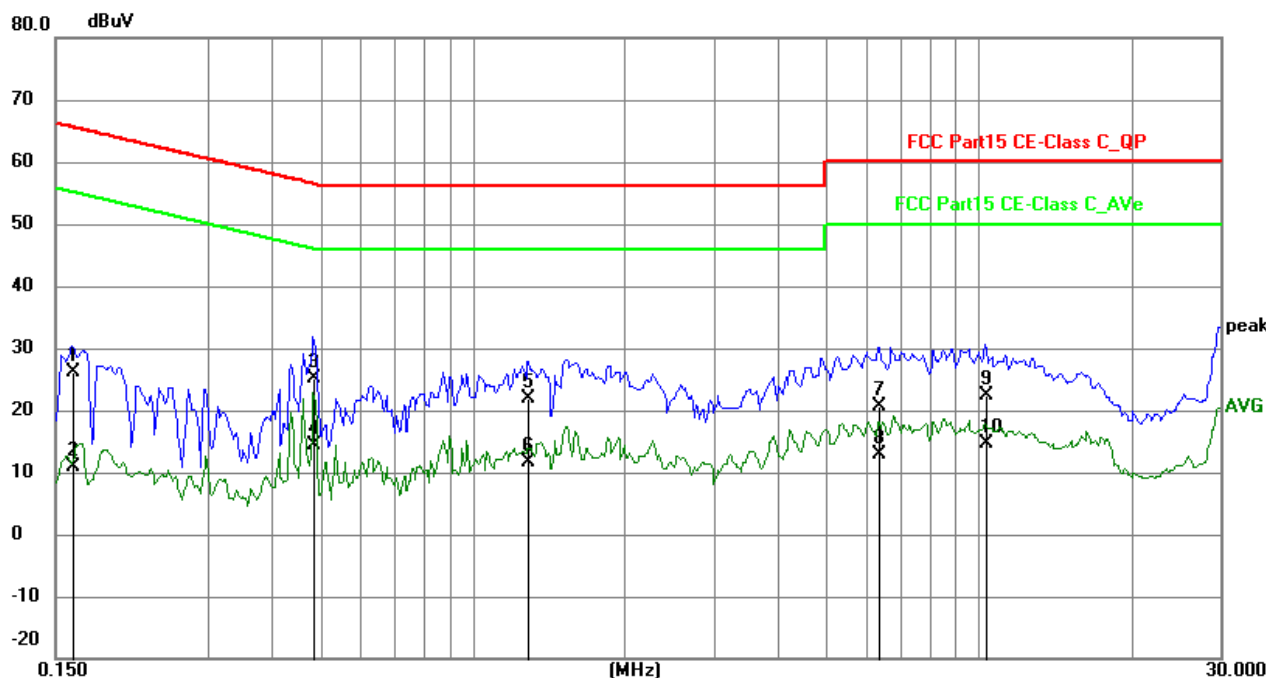
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Results: PASS

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1617 | 16.37 | 9.78 | 26.15 | 65.38 | -39.23 | QP | P |
| 2 | 0.1617 | 1.00 | 9.78 | 10.78 | 55.38 | -44.60 | AVG | P |
| 3 | 0.4854 | 15.28 | 9.77 | 25.05 | 56.25 | -31.20 | QP | P |
| 4 | 0.4854 | 4.73 | 9.77 | 14.50 | 46.25 | -31.75 | AVG | P |
| 5 | 1.2888 | 11.98 | 9.79 | 21.77 | 56.00 | -34.23 | QP | P |
| 6 | 1.2888 | 1.90 | 9.79 | 11.69 | 46.00 | -34.31 | AVG | P |
| 7 | 6.3462 | 10.76 | 9.98 | 20.74 | 60.00 | -39.26 | QP | P |
| 8 | 6.3462 | 3.00 | 9.98 | 12.98 | 50.00 | -37.02 | AVG | P |
| 9 | 10.3242 | 12.24 | 10.17 | 22.41 | 60.00 | -37.59 | QP | P |
| 10 | 10.3242 | 4.39 | 10.17 | 14.56 | 50.00 | -35.44 | AVG | P |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

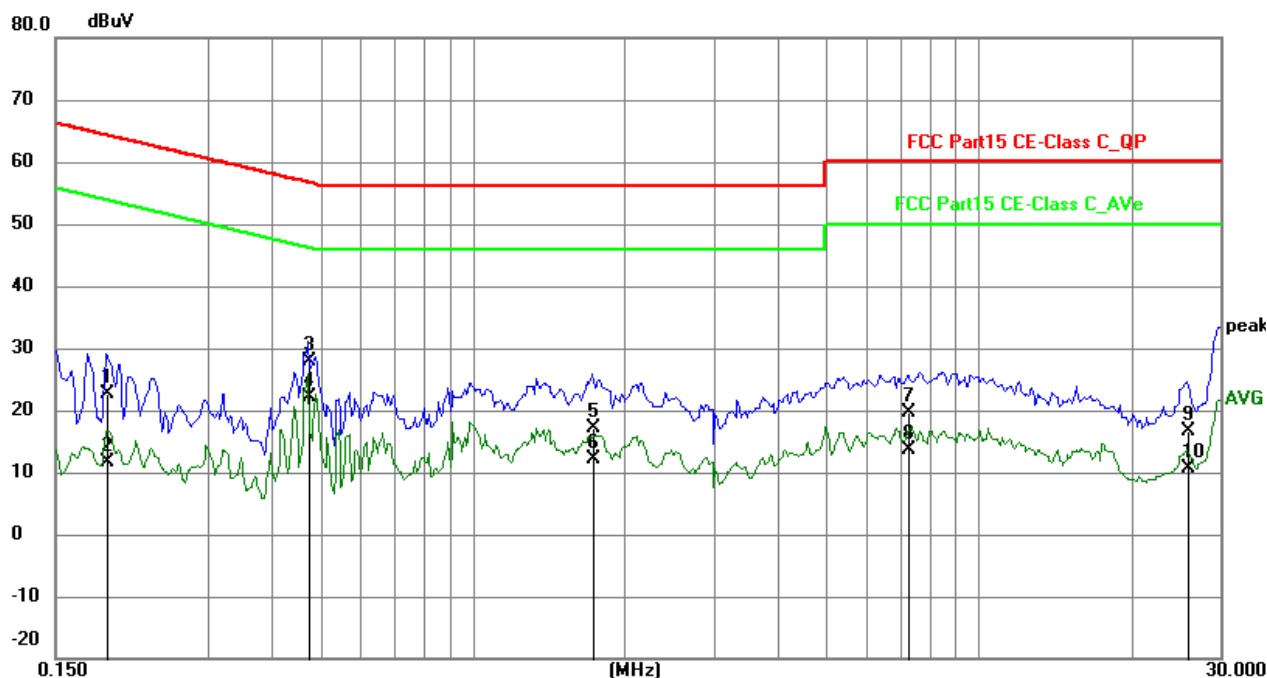
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1890 | 12.94 | 9.76 | 22.70 | 64.08 | -41.38 | QP | P |
| 2 | 0.1890 | 1.90 | 9.76 | 11.66 | 54.08 | -42.42 | AVG | P |
| 3 | 0.4737 | 18.20 | 9.77 | 27.97 | 56.45 | -28.48 | QP | P |
| 4 | 0.4737 | 12.43 | 9.77 | 22.20 | 46.45 | -24.25 | AVG | P |
| 5 | 1.7256 | 7.41 | 9.80 | 17.21 | 56.00 | -38.79 | QP | P |
| 6 | 1.7256 | 2.22 | 9.80 | 12.02 | 46.00 | -33.98 | AVG | P |
| 7 | 7.2393 | 9.49 | 10.02 | 19.51 | 60.00 | -40.49 | QP | P |
| 8 | 7.2393 | 3.68 | 10.02 | 13.70 | 50.00 | -36.30 | AVG | P |
| 9 | 25.7876 | 5.68 | 11.04 | 16.72 | 60.00 | -43.28 | QP | P |
| 10 | 25.7876 | -0.29 | 11.04 | 10.75 | 50.00 | -39.25 | AVG | P |

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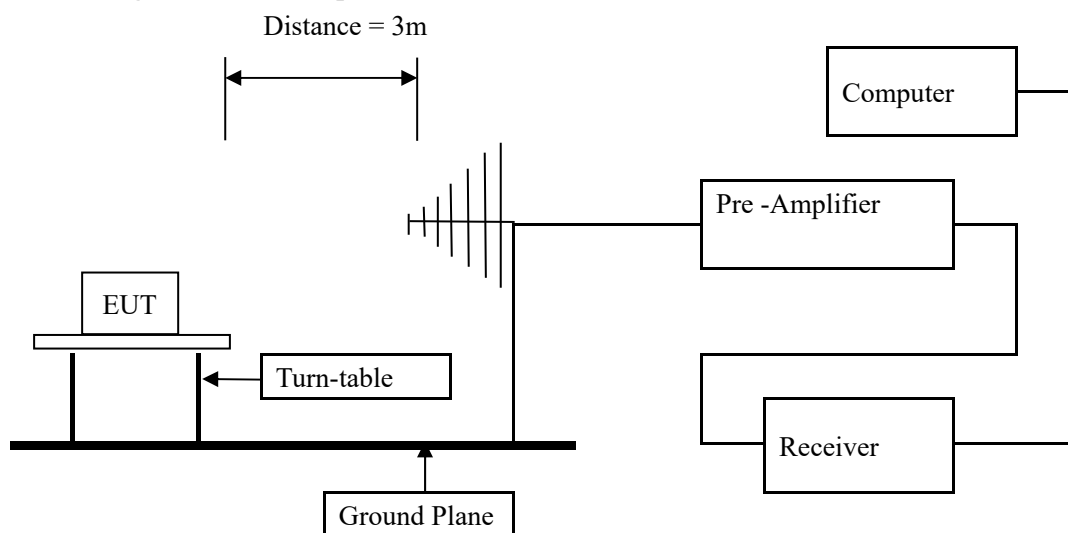


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. 8DPSK was the worst case because it has highest output power
 5. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: **Pass**

The report refers only to the sample tested and does not apply to the bulk.

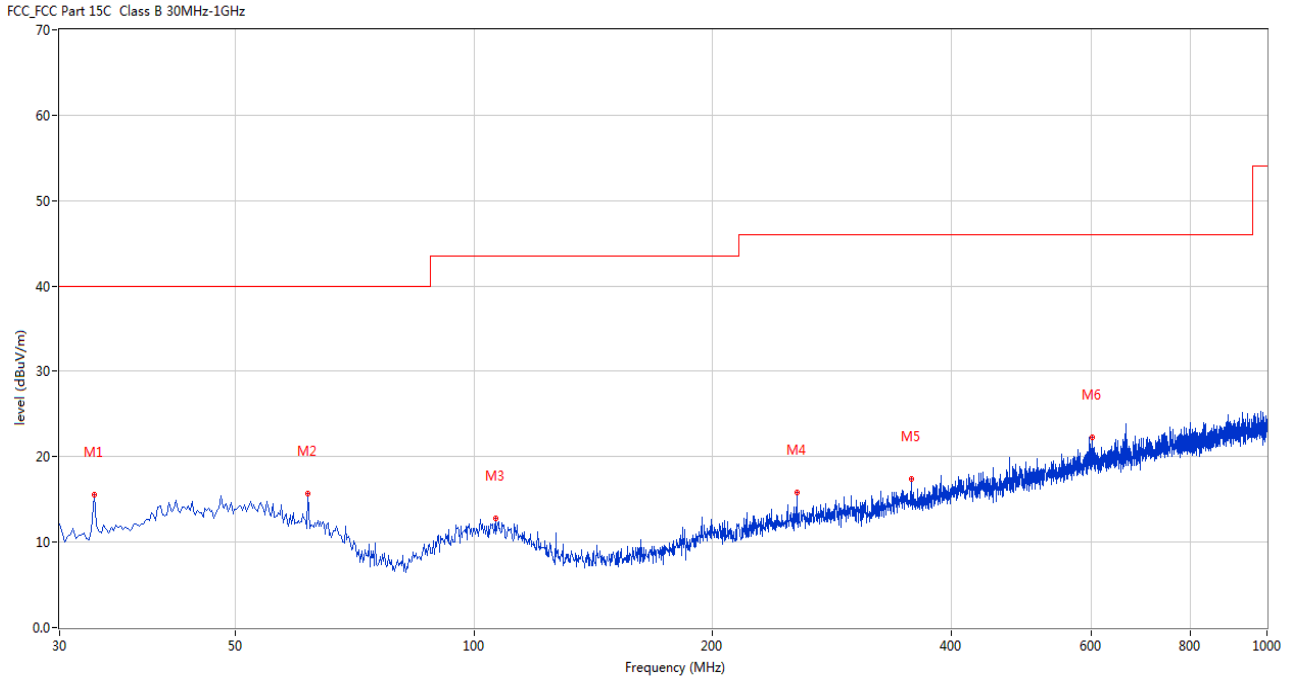
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Test Figure:

H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 33.152 | 15.56 | -14.39 | 40.0 | -24.44 | Peak | 17.00 | 100 | Horizontal | Pass |
| 2 | 61.760 | 15.71 | -13.22 | 40.0 | -24.29 | Peak | 47.00 | 100 | Horizontal | Pass |
| 3 | 106.368 | 12.82 | -13.34 | 43.5 | -30.68 | Peak | 30.00 | 100 | Horizontal | Pass |
| 4 | 255.226 | 15.78 | -11.96 | 46.0 | -30.22 | Peak | 15.00 | 100 | Horizontal | Pass |
| 5 | 355.839 | 17.45 | -9.47 | 46.0 | -28.55 | Peak | 179.00 | 100 | Horizontal | Pass |
| 6 | 602.399 | 22.27 | -5.08 | 46.0 | -23.73 | Peak | 209.00 | 100 | Horizontal | Pass |

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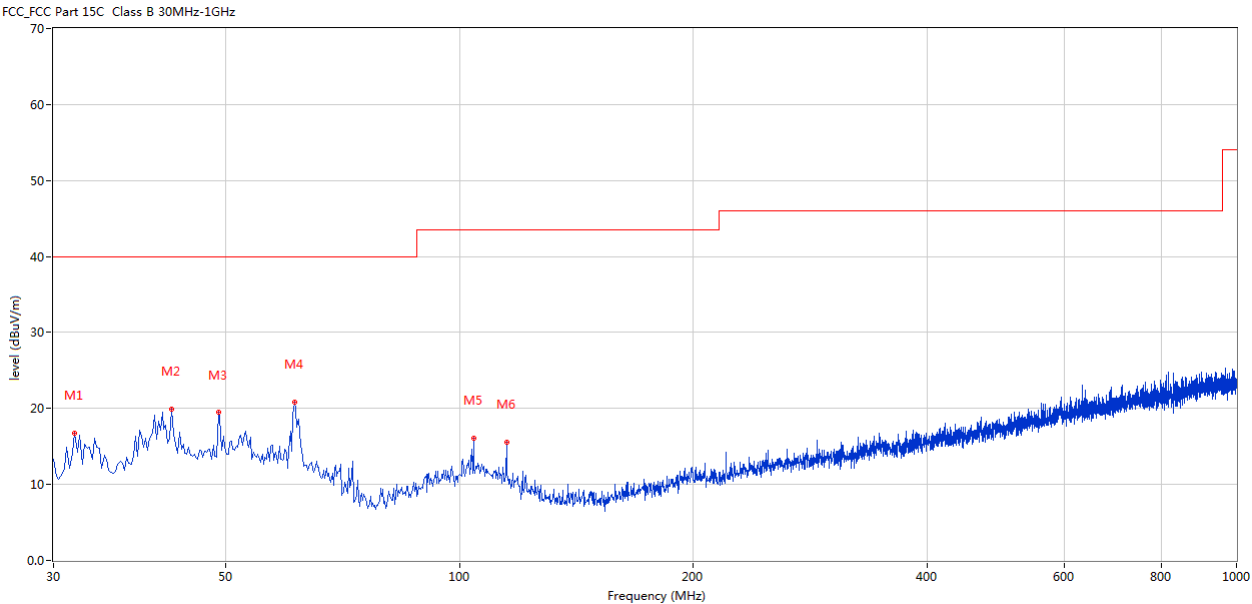
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Test Figure:

V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 31.212 | 14.86 | -14.58 | 40.0 | -25.14 | Peak | 338.00 | 100 | Vertical | Pass |
| 2 | 42.607 | 19.89 | -11.55 | 40.0 | -20.11 | Peak | 126.00 | 100 | Vertical | Pass |
| 3 | 48.910 | 19.45 | -11.21 | 40.0 | -20.55 | Peak | 202.00 | 100 | Vertical | Pass |
| 4 | 61.275 | 20.87 | -13.14 | 40.0 | -19.13 | Peak | 80.00 | 100 | Vertical | Pass |
| 5 | 104.186 | 16.15 | -13.30 | 43.5 | -27.35 | Peak | 80.00 | 100 | Vertical | Pass |
| 6 | 114.854 | 15.51 | -14.40 | 43.5 | -27.99 | Peak | 80.00 | 100 | Vertical | Pass |

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Operation Mode: Transmitting under Low Channel (2402MHz)

| Frequency (MHz) | Level@3m (dBμV/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------|------------------|---------------------|
| 4804 | -- | H | 74(Peak)/ 54(AV) |
| 4804 | -- | V | 74(Peak)/ 54(AV) |
| 7206 | -- | H/V | 74(Peak)/ 54(AV) |
| 9608 | -- | H/V | 74(Peak)/ 54(AV) |
| 12010 | -- | H/V | 74(Peak)/ 54(AV) |
| 14412 | -- | H/V | 74(Peak)/ 54(AV) |
| 16814 | -- | H/V | 74(Peak)/ 54(AV) |
| 19216 | -- | H/V | 74(Peak)/ 54(AV) |
| 21618 | -- | H/V | 74(Peak)/ 54(AV) |
| 24020 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2441MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|---------------------|------------------|---------------------|
| 4882 | -- | H | 74(Peak)/ 54(AV) |
| 4882 | -- | V | 74(Peak)/ 54(AV) |
| 7323 | -- | H/V | 74(Peak)/ 54(AV) |
| 9764 | -- | H/V | 74(Peak)/ 54(AV) |
| 12205 | -- | H/V | 74(Peak)/ 54(AV) |
| 14646 | -- | H/V | 74(Peak)/ 54(AV) |
| 17087 | -- | H/V | 74(Peak)/ 54(AV) |
| 19528 | -- | H/V | 74(Peak)/ 54(AV) |
| 21969 | -- | H/V | 74(Peak)/ 54(AV) |
| 24410 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4960 | -- | H | 74(Peak)/ 54(AV) |
| 4960 | -- | V | 74(Peak)/ 54(AV) |
| 7440 | -- | H/V | 74(Peak)/ 54(AV) |
| 9920 | -- | H/V | 74(Peak)/ 54(AV) |
| 12400 | -- | H/V | 74(Peak)/ 54(AV) |
| 14880 | -- | H/V | 74(Peak)/ 54(AV) |
| 17360 | -- | H/V | 74(Peak)/ 54(AV) |
| 19840 | -- | H/V | 74(Peak)/ 54(AV) |
| 22320 | -- | H/V | 74(Peak)/ 54(AV) |
| 24800 | -- | H/V | 74(Peak)/ 54(AV) |

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

The report refers only to the sample tested and does not apply to the bulk.

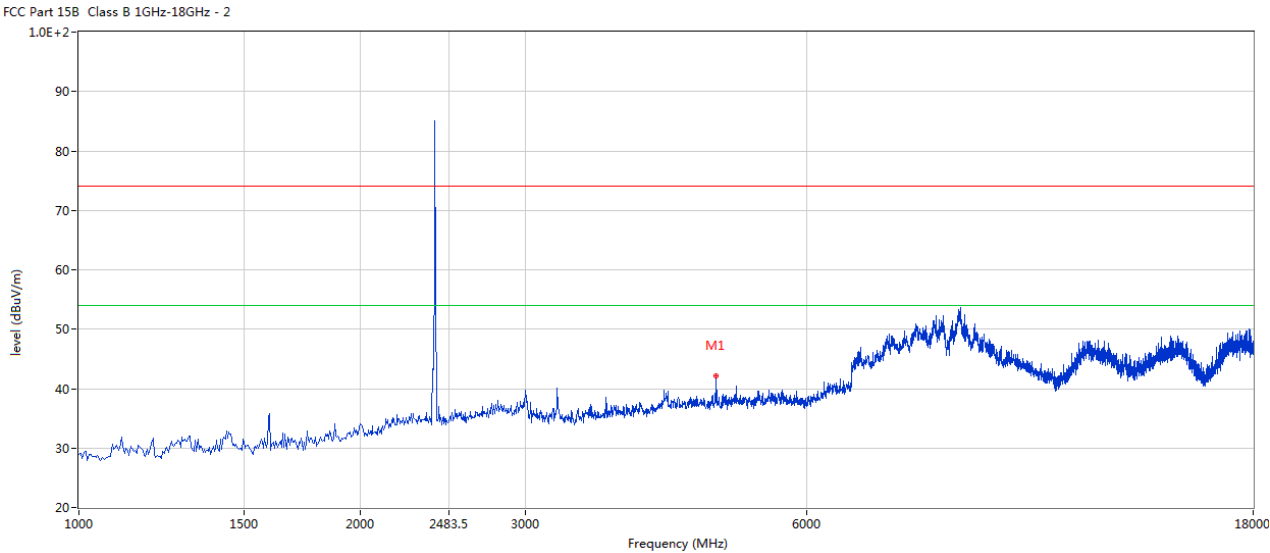
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Please refer to the following test plots for details:

Low Channel: Vertical



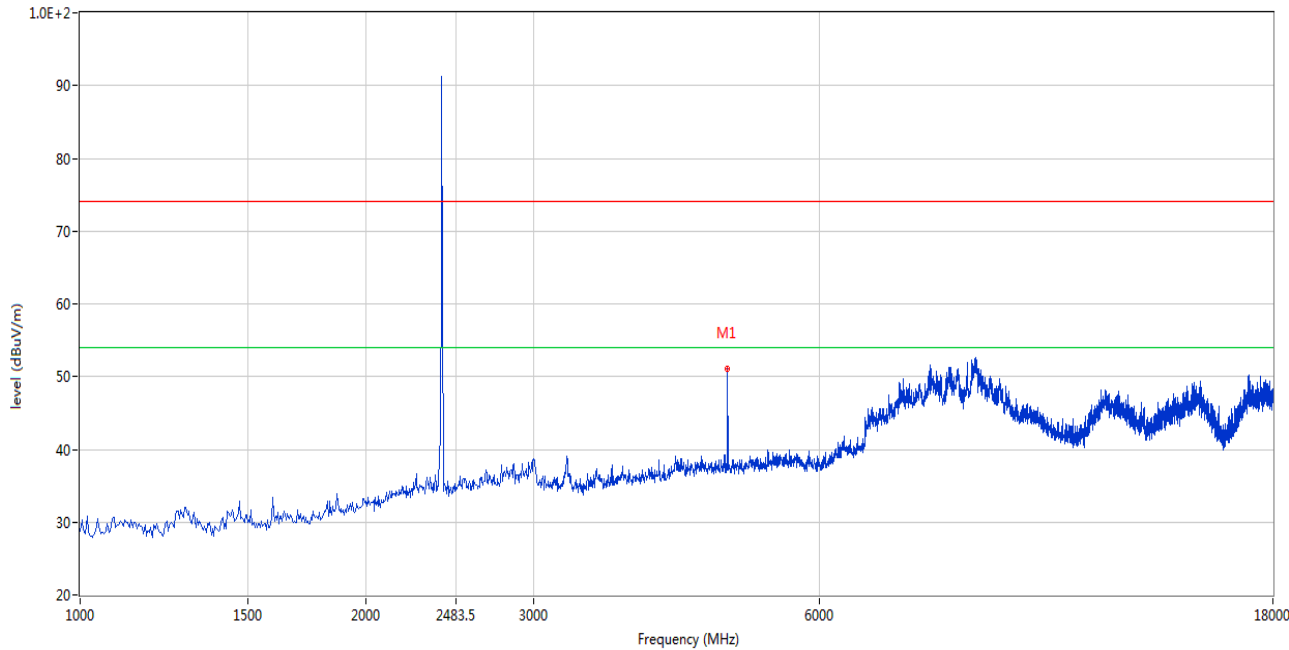
| No | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|----|--------------------|---------------------|----------------|-------------------|--------------------|----------|-----------|----------------|-----|---------|
| 1 | 4802.799 | 42.22 | 3.12 | 74.0 | -31.78 | Peak | 168.00 | 100 | V | Pass |

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Low Channel : Horizontal

FCC Part 15B Class B 1GHz-18GHz - 2

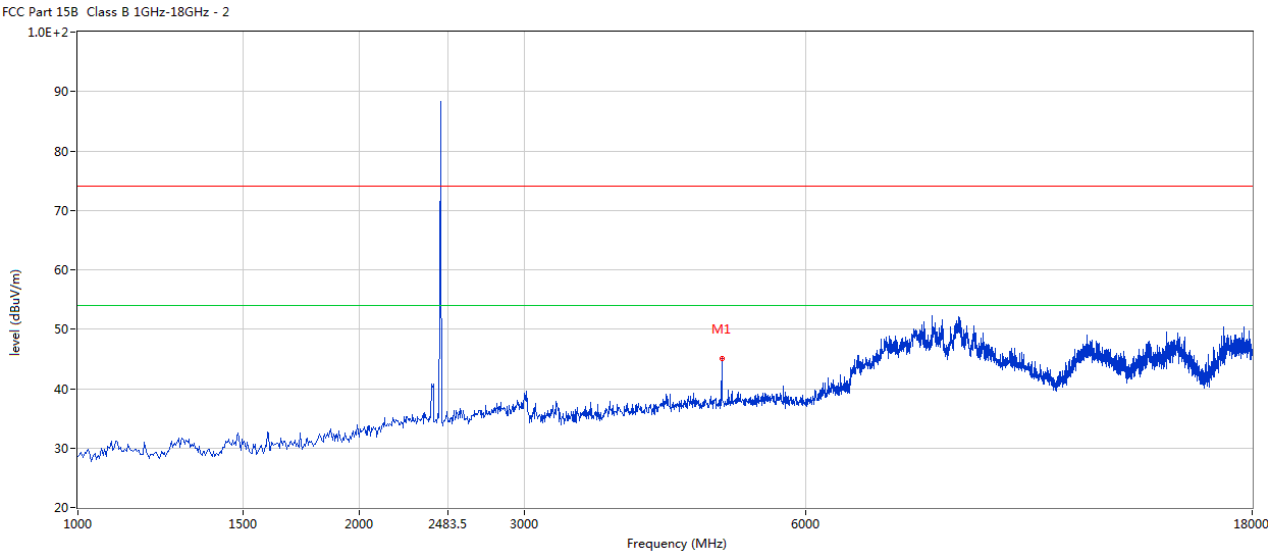


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 4802.799 | 50.99 | 3.12 | 54.0 | -3.01 | Peak | 242.00 | 100 | H | Pass |

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Middle Channel : Horizontal



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 4883.529 | 45.01 | 3.20 | 54.0 | -8.99 | Peak | 241.00 | 100 | H | Pass |

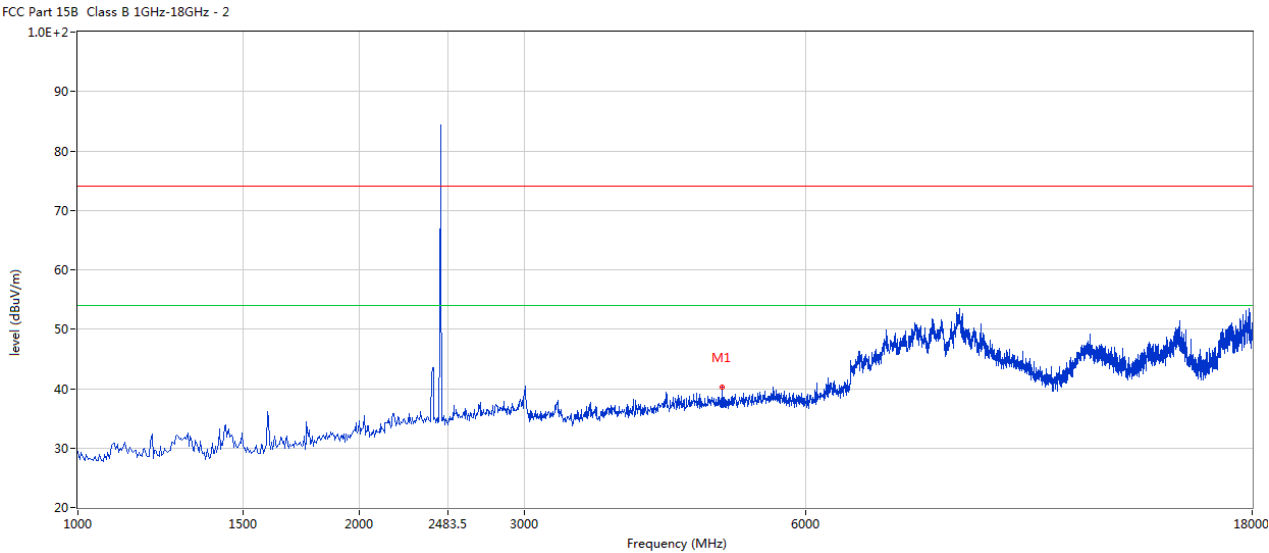
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Middle Channel : Vertical



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 4883.529 | 40.32 | 3.20 | 54.0 | -13.68 | Peak | 0.00 | 100 | V | Pass |

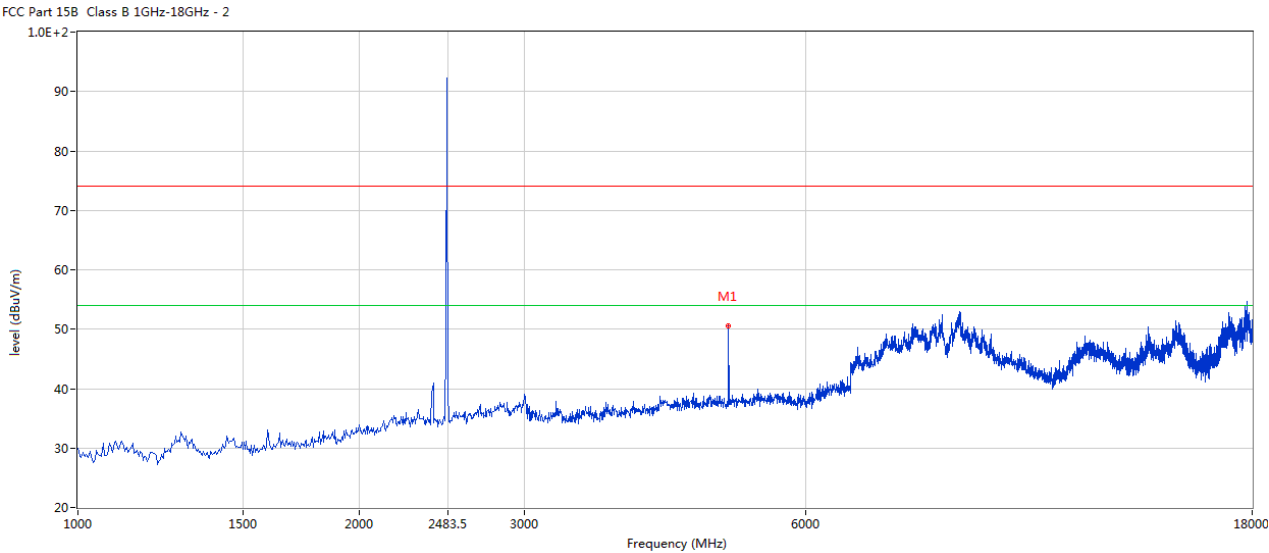
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High Channel : Horizontal



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 4960.010 | 50.61 | 3.36 | 54.0 | -3.39 | Peak | 197.00 | 100 | H | Pass |

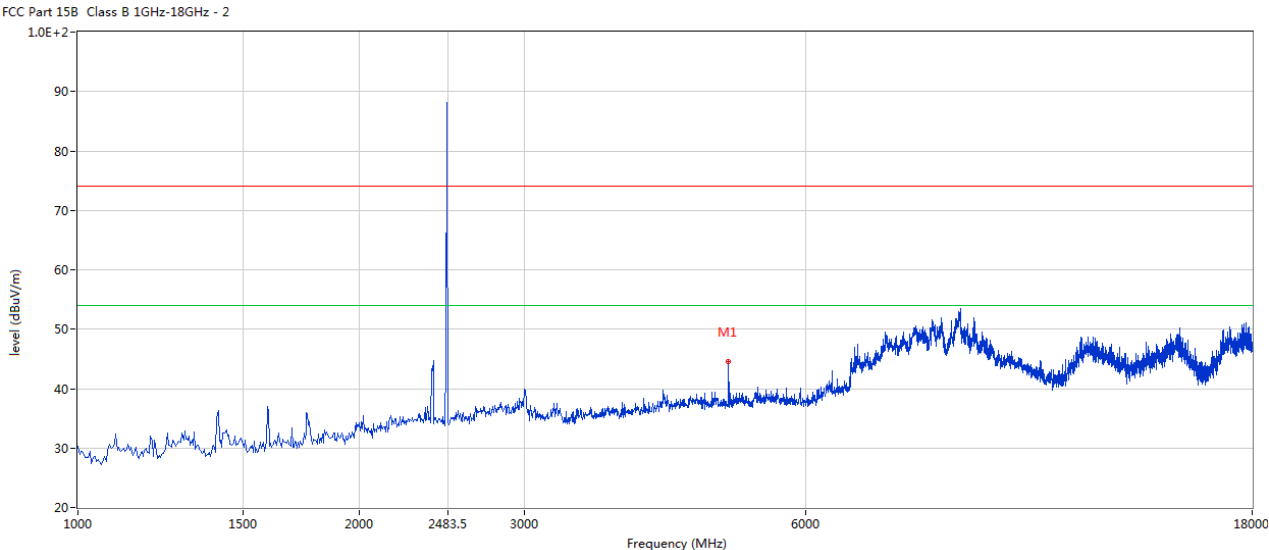
The report refers only to the sample tested and does not apply to the bulk.

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High Channel : Vertical



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 4960.010 | 44.58 | 3.36 | 54.0 | -9.42 | Peak | 356.00 | 100 | V | Pass |

Note: 1. for the radiated emissions above 18G and below 30MHz, it is the floor noise.
2. the measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = 3MHz, RBW = 30 kHz, VBW = 100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

| | | | | |
|-------------|-----------------------------|-----------------------|---------------------|------------|
| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Minimum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 782 | -- | Pass |
| Middle | 2441 | 782 | -- | Pass |
| High | 2480 | 782 | -- | Pass |

The report refers only to the sample tested and does not apply to the bulk.

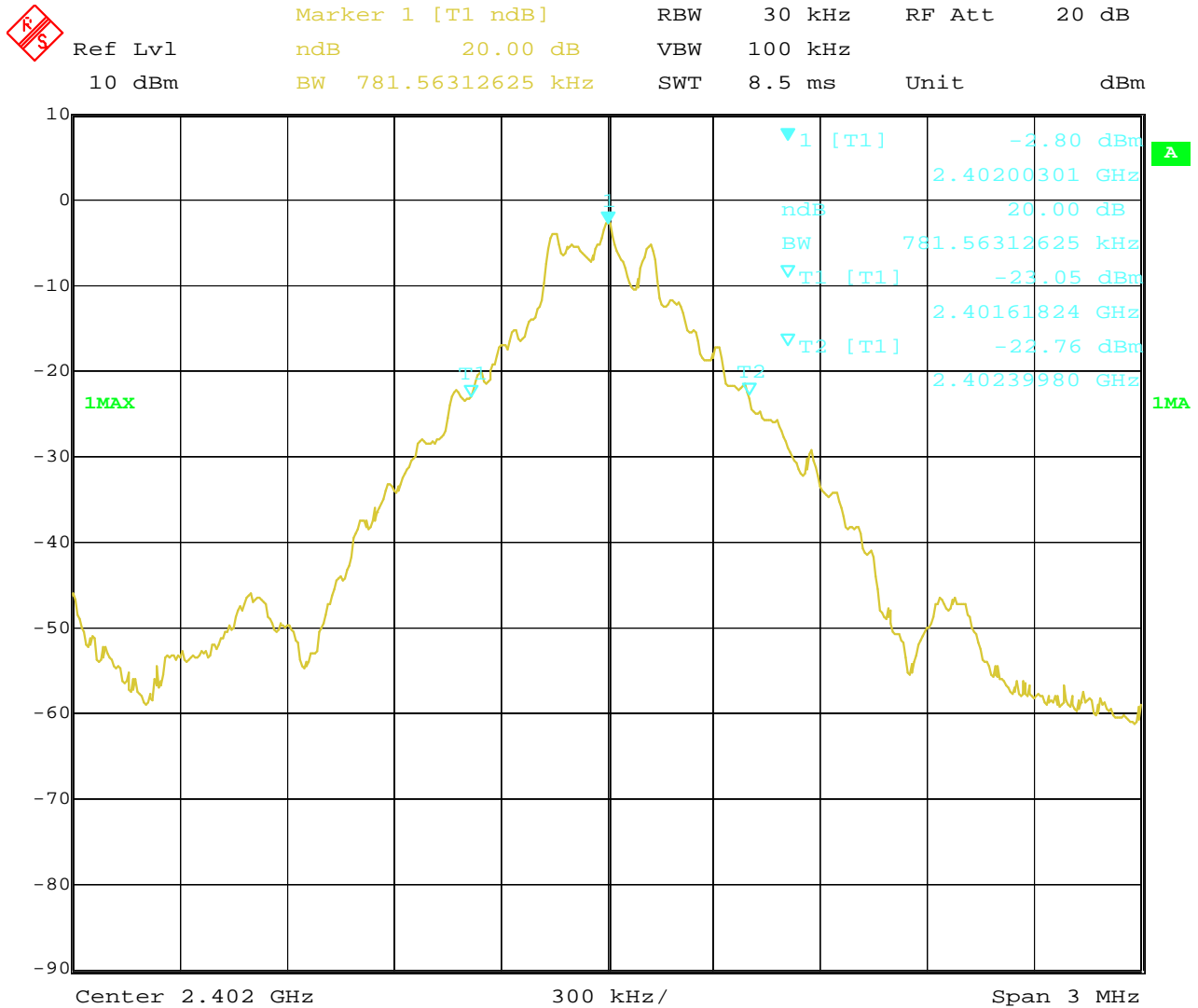
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Test Figure:

1. Condition: Low Channel



Date: 8.SEP.2020 14:19:25

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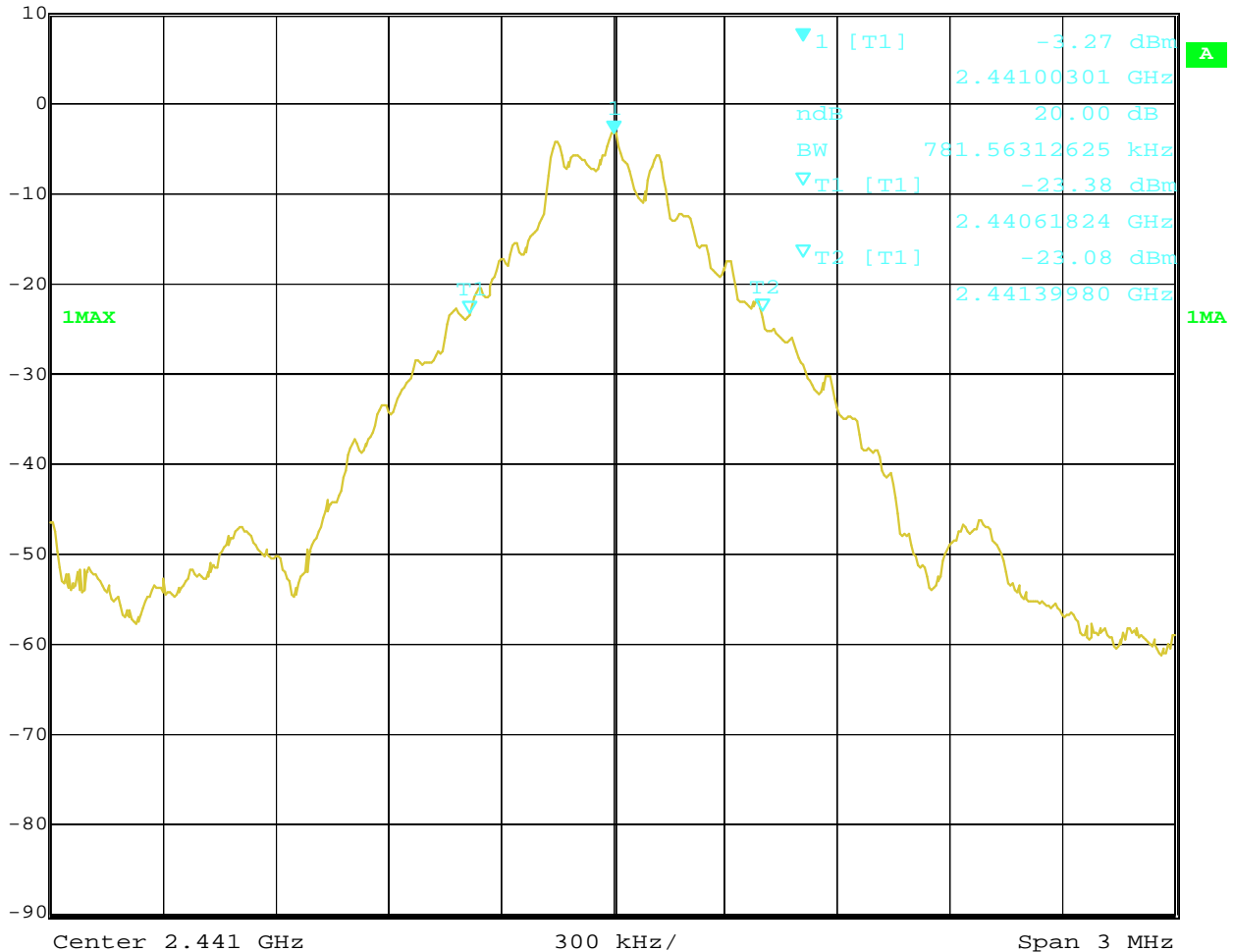
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2. Condition: Middle Channel



| | | | | | |
|---------|---------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1 ndB] | RBW | 30 kHz | RF Att | 20 dB |
| 10 dBm | ndB 20.00 dB | VBW | 100 kHz | | |
| | BW 781.56312625 kHz | SWT | 8.5 ms | Unit | dBm |



Date: 8.SEP.2020 14:20:49

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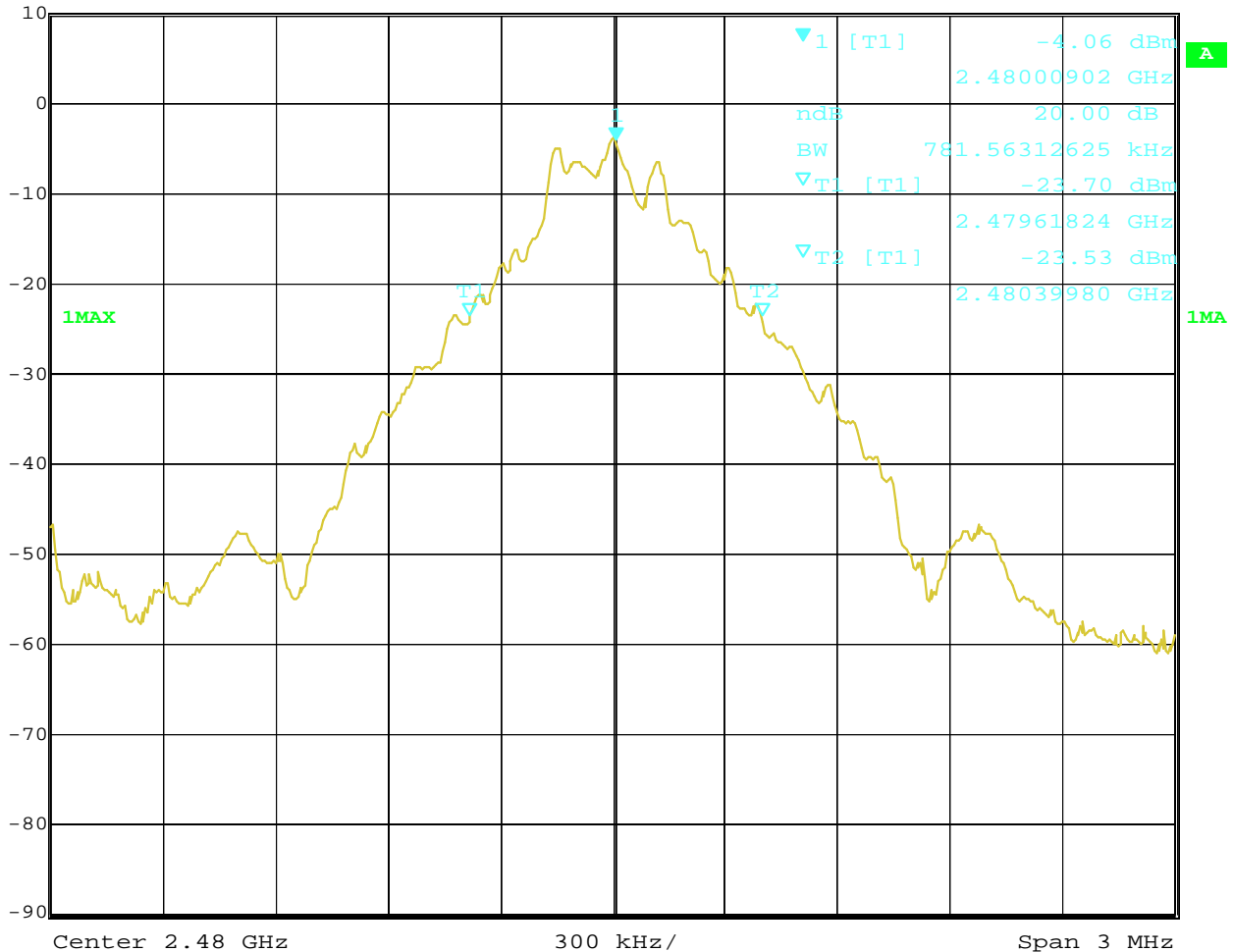
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3. High Channel



| | | | | | |
|---------|---------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1 ndB] | RBW | 30 kHz | RF Att | 20 dB |
| 10 dBm | ndB 20.00 dB | VBW | 100 kHz | | |
| | BW 781.56312625 kHz | SWT | 8.5 ms | Unit | dBm |



Date: 8.SEP.2020 14:22:14

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Test Result

Type of Modulation: $\pi/4$ DQPSK

| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
|-------------|-----------------------------|-----------------------|---------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Maximum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 1220 | -- | Pass |
| Middle | 2441 | 1220 | -- | Pass |
| High | 2480 | 1220 | -- | Pass |

The report refers only to the sample tested and does not apply to the bulk.

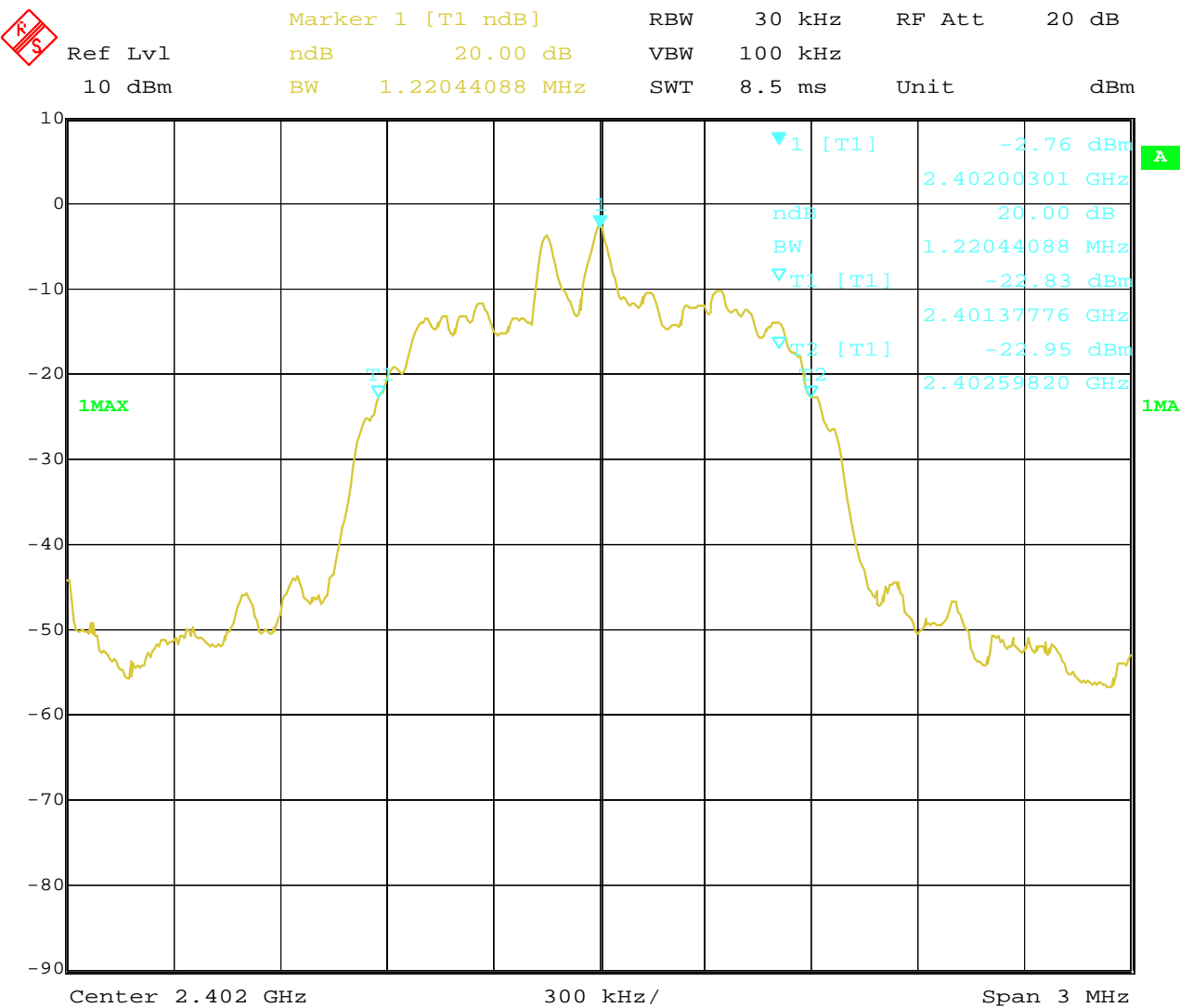
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Test Figure:

1. Condition: Low Channel

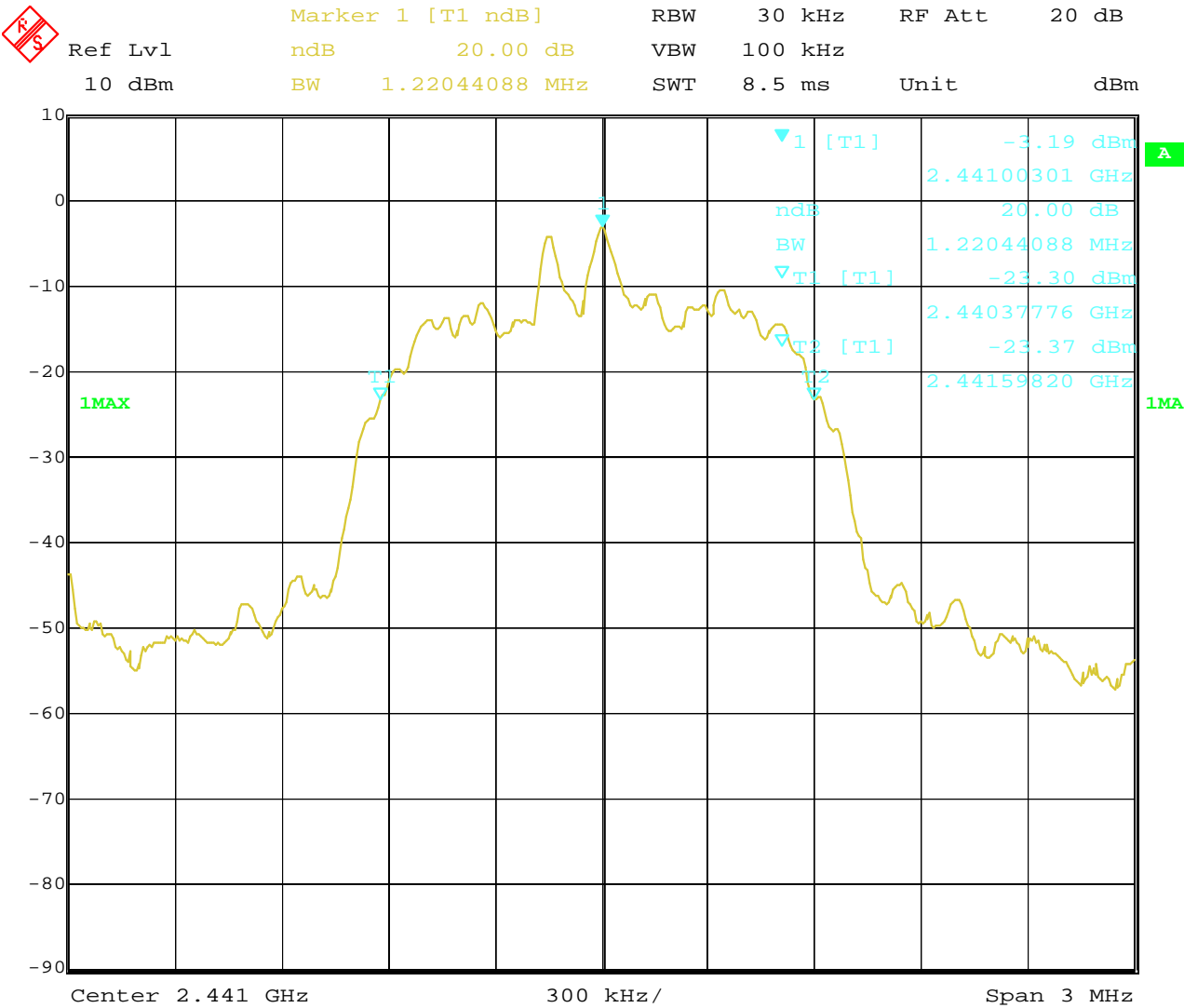


Date: 8.SEP.2020 14:18:44

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2. Condition: Middle Channel



Date: 8.SEP.2020 14:11:06

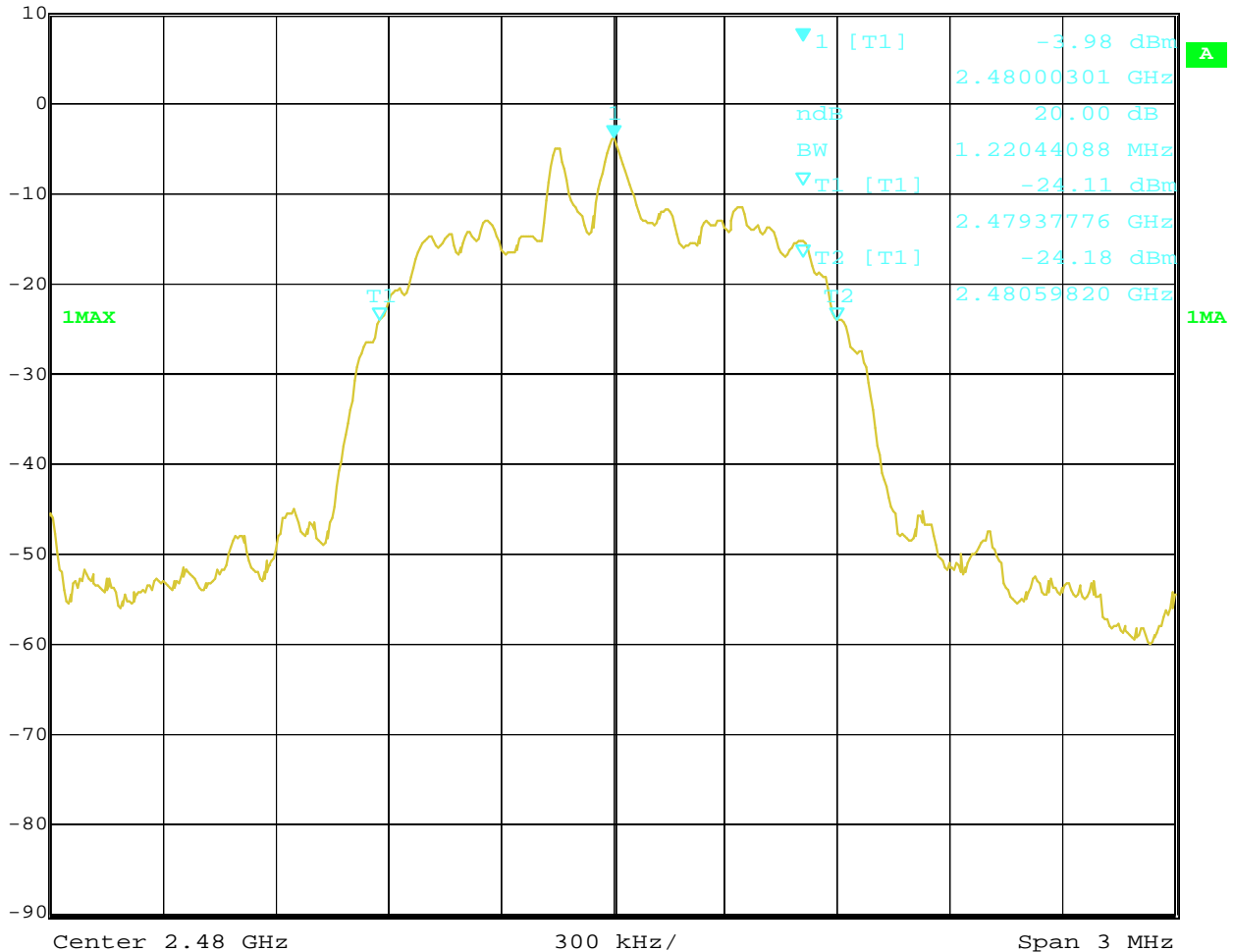
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3. High Channel



| | | | | | |
|---------|-------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1 ndB] | RBW | 30 kHz | RF Att | 20 dB |
| 10 dBm | ndB 20.00 dB | VBW | 100 kHz | | |
| | BW 1.22044088 MHz | SWT | 8.5 ms | Unit | dBm |



Date: 8.SEP.2020 13:52:42

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Test Result

Type of Modulation: 8DPSK

| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
|-------------|-----------------------------|-----------------------|---------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Maximum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 1214 | -- | Pass |
| Middle | 2441 | 1214 | -- | Pass |
| High | 2480 | 1220 | -- | Pass |

The report refers only to the sample tested and does not apply to the bulk.

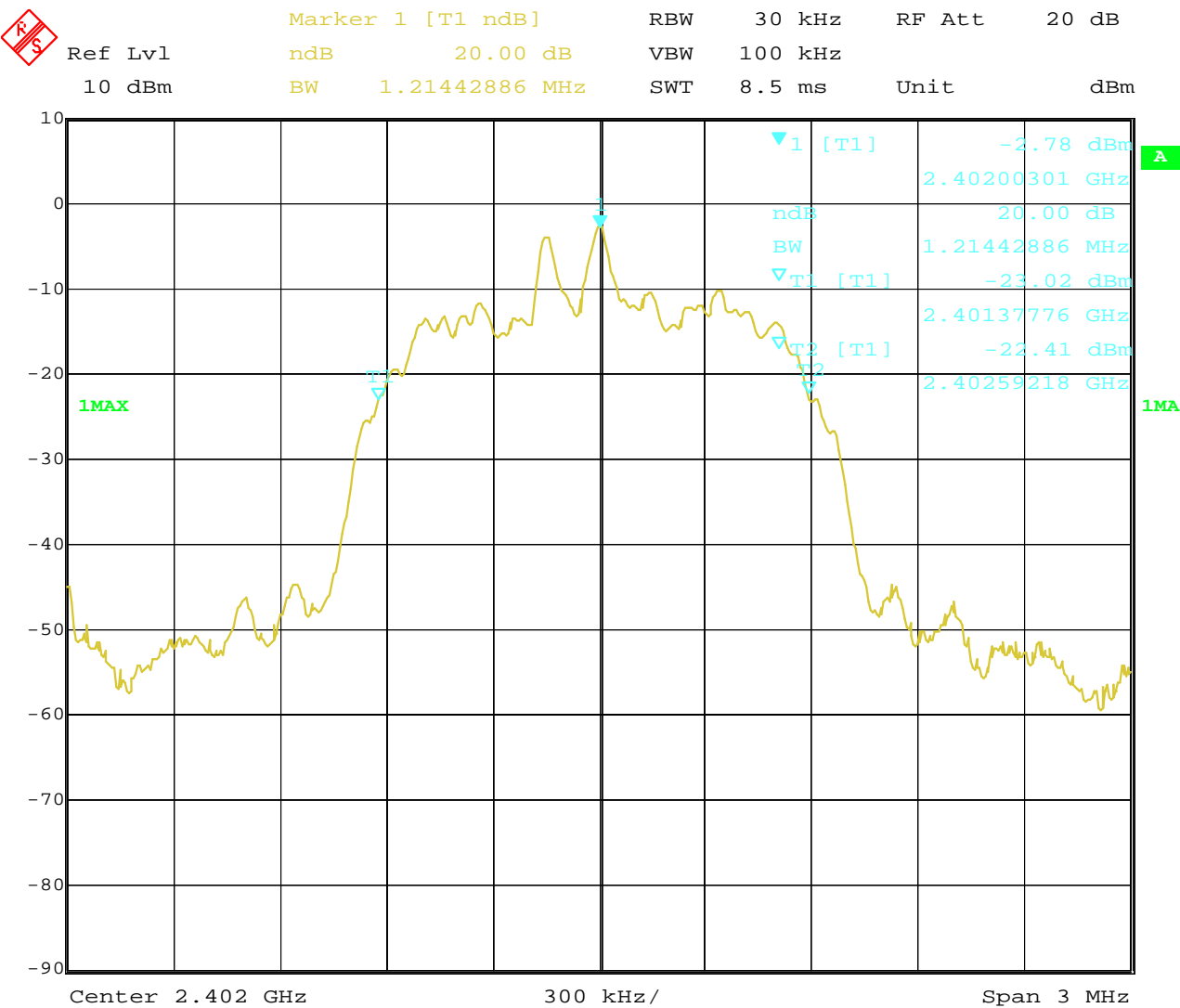
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Test Figure:

1. Condition: Low Channel



Date: 8.SEP.2020 14:14:08

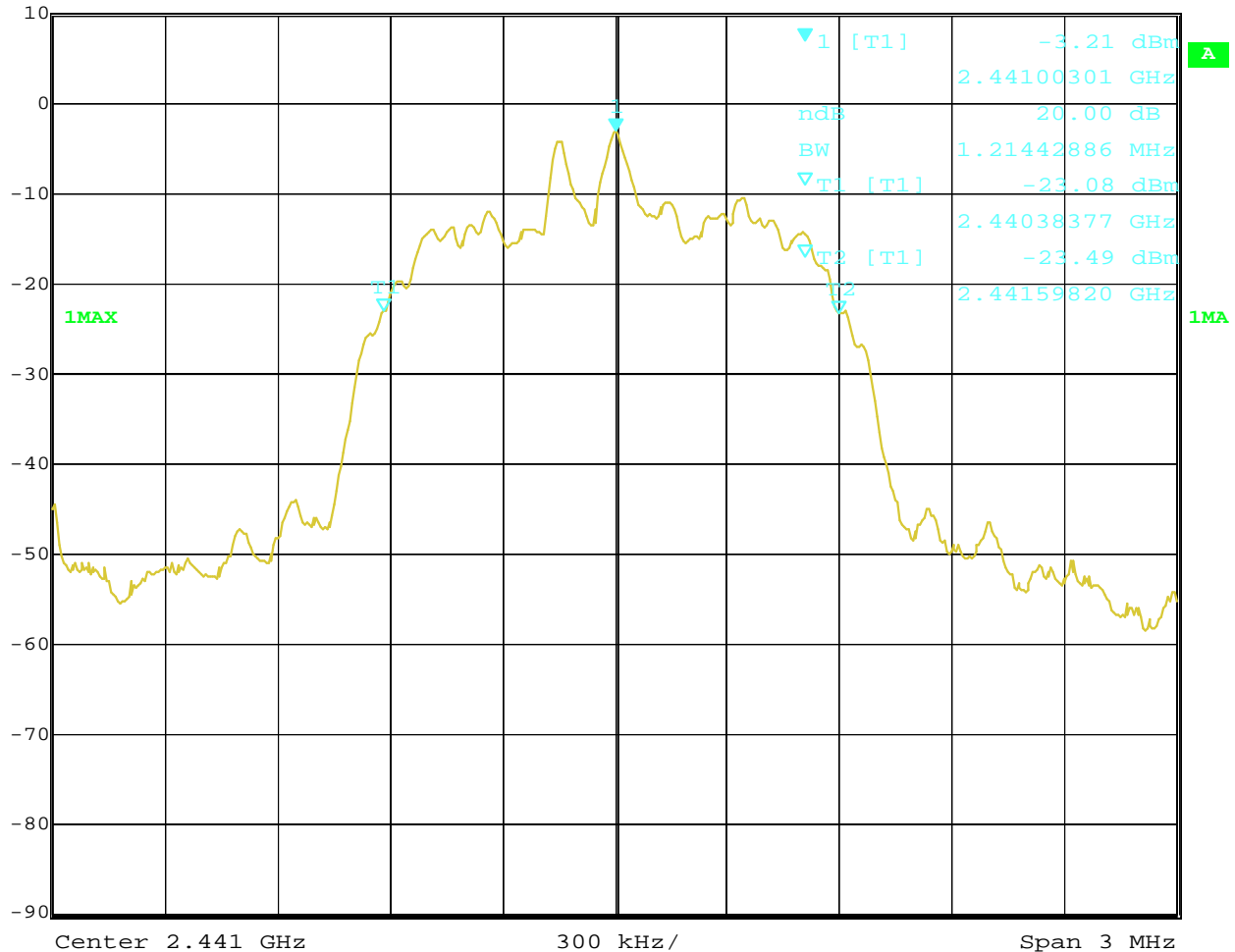
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2. Condition: Middle Channel



| | | | | | |
|---------|-------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1 ndB] | RBW | 30 kHz | RF Att | 20 dB |
| 10 dBm | ndB 20.00 dB | VBW | 100 kHz | | |
| | BW 1.21442886 MHz | SWT | 8.5 ms | Unit | dBm |



Date: 8.SEP.2020 14:13:29

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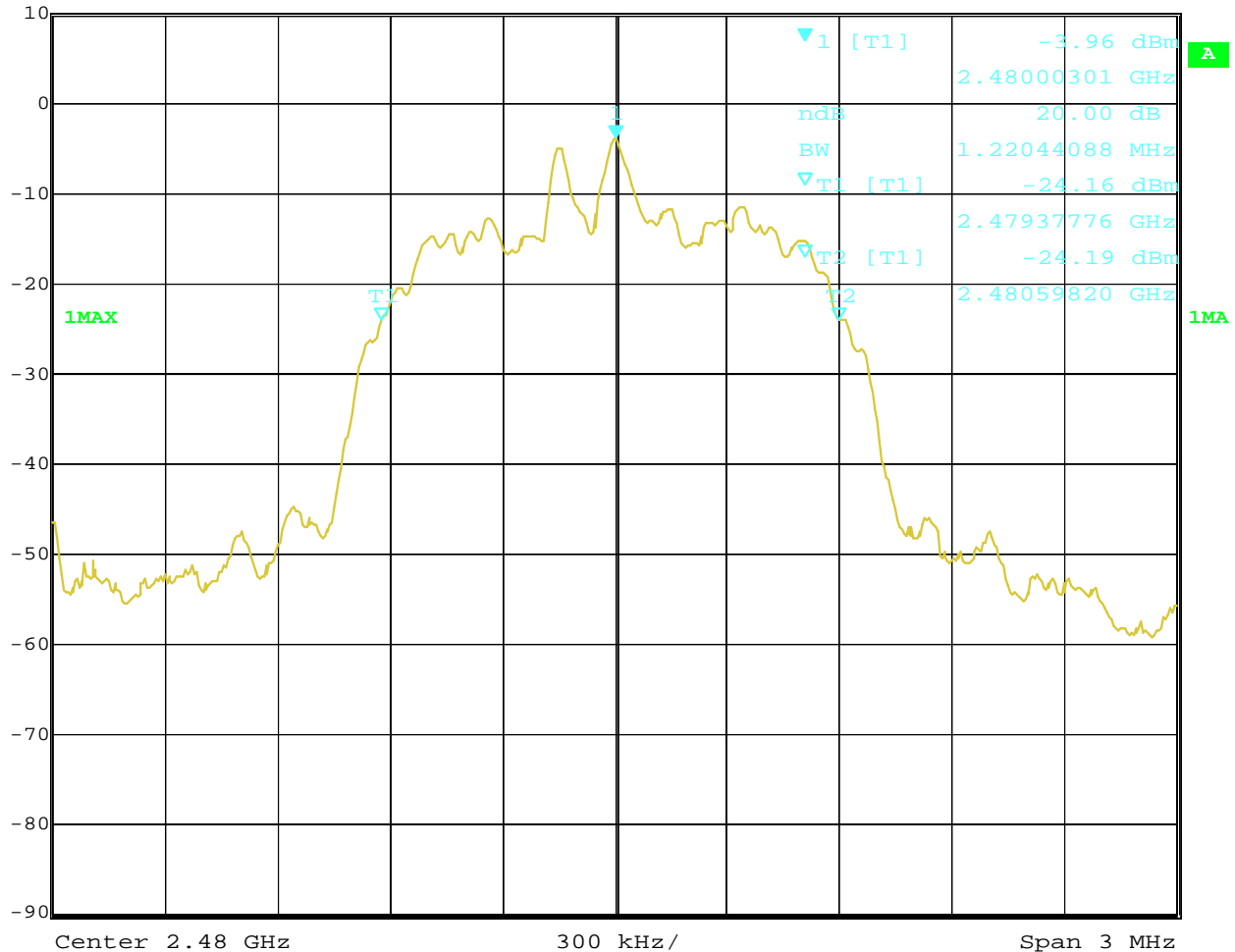
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3. High Channel



| | | | | | |
|---------|-------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1 ndB] | RBW | 30 kHz | RF Att | 20 dB |
| 10 dBm | ndB 20.00 dB | VBW | 100 kHz | | |
| | BW 1.22044088 MHz | SWT | 8.5 ms | Unit | dBm |



Date: 8.SEP.2020 13:51:19

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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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8.4 Test Results

Type of Modulation: GFSK

| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
|-------------|-----------------------------|-------------------------|------------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Max. Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| | | Peak | | |
| Low | 2402 | -2.15 | 30 | Pass |
| Middle | 2441 | -2.47 | 30 | Pass |
| High | 2480 | -2.85 | 30 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

Type of Modulation: $\pi/4$ DQPSK

| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
|-------------|-----------------------------|-------------------------|------------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Max. Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| | | Peak | | |
| Low | 2402 | -1.99 | 30 | Pass |
| Middle | 2441 | -1.46 | 30 | Pass |
| High | 2480 | -1.87 | 30 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

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Type of Modulation: 8DPSK

| EUT | Bluetooth Wireless Earphone | | Model | Jelleez-TW |
|-------------|-----------------------------|-------------------------|------------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Max. Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| | | Peak | | |
| Low | 2402 | -1.99 | 30 | Pass |
| Middle | 2441 | -1.37 | 30 | Pass |
| High | 2480 | -1.87 | 30 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) \geq 1% of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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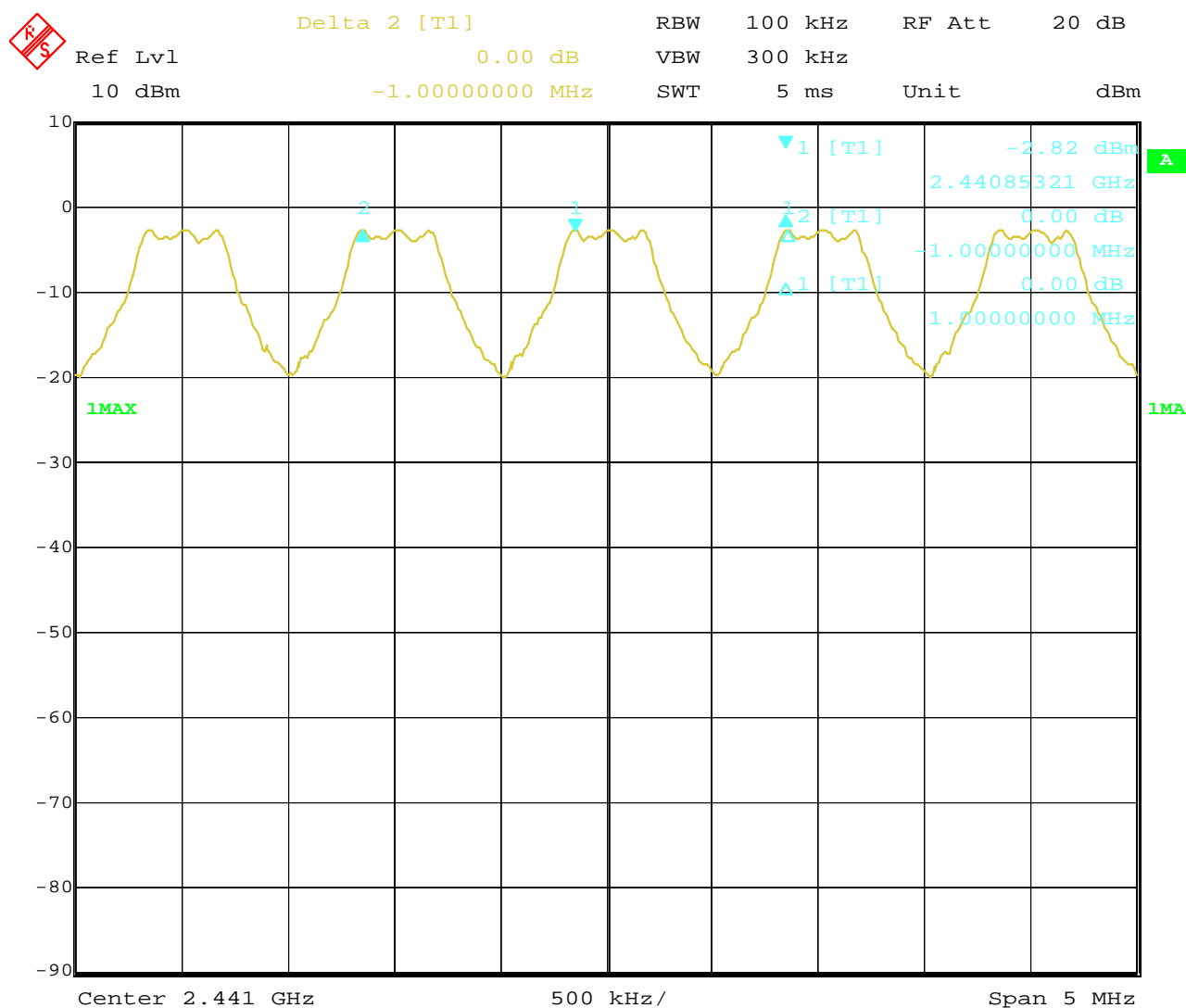


9.4 Test Result

Type of Modulation: GFSK

| | | | |
|------------------------------|-----------------------------|---------------------------------------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Carrier Frequency Separation | | Limit | Pass/ Fail |
| 1.000MHz | | ≥ 25 kHz or 2/3 of the 20 dB bandwidth | Pass |

Test Plots



Date: 30.AUG.2020 15:58:47

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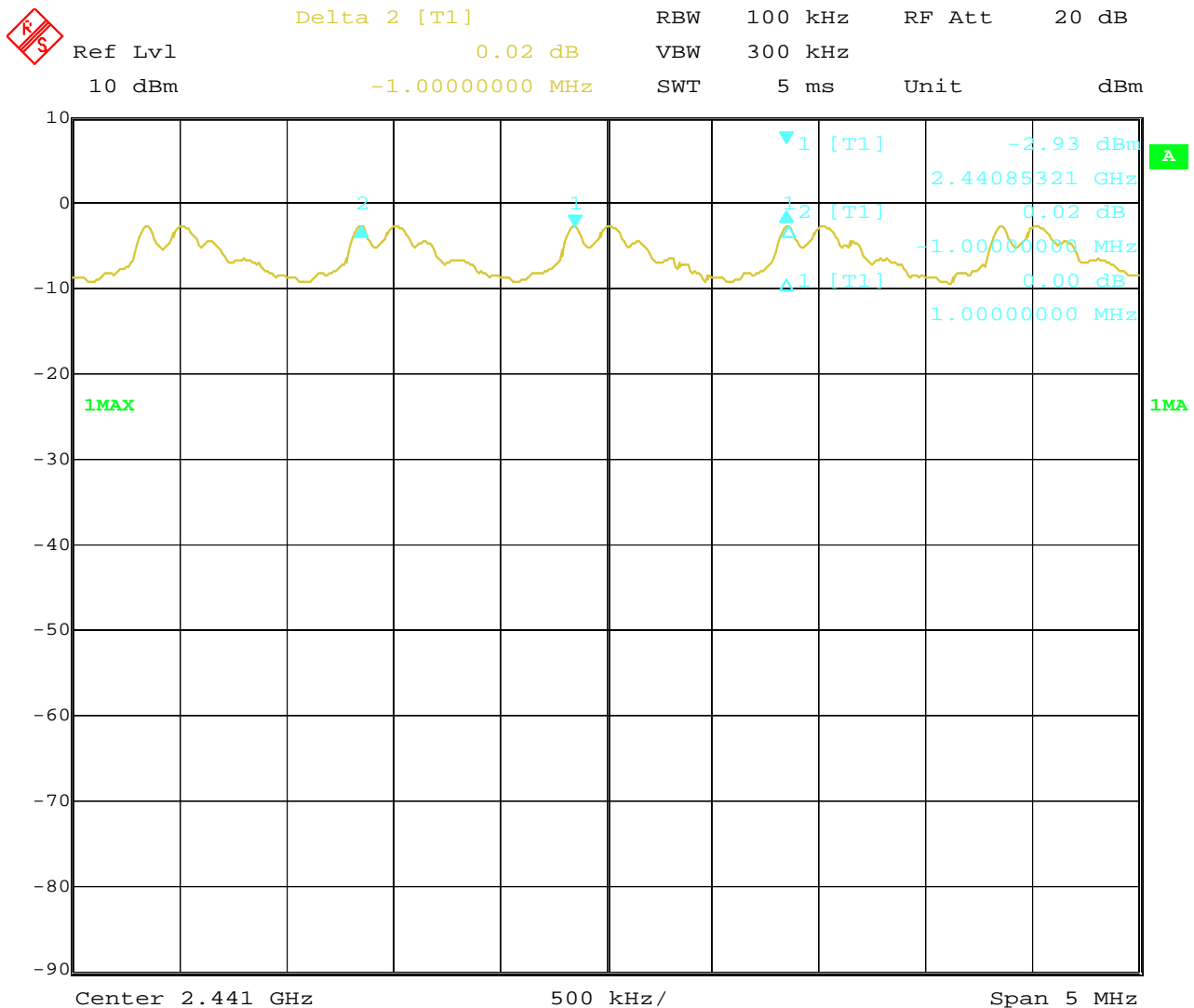
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Type of Modulation: $\pi/4$ DQPSK

| | | | |
|------------------------------|-----------------------------|-----------------------------------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Carrier Frequency Separation | | Limit | Pass/ Fail |
| 1.000MHz | | ≥ 25 kHz or 2/3 of 20 dB bandwidth | Pass |

Test Plots



Date: 30.AUG.2020 16:25:42

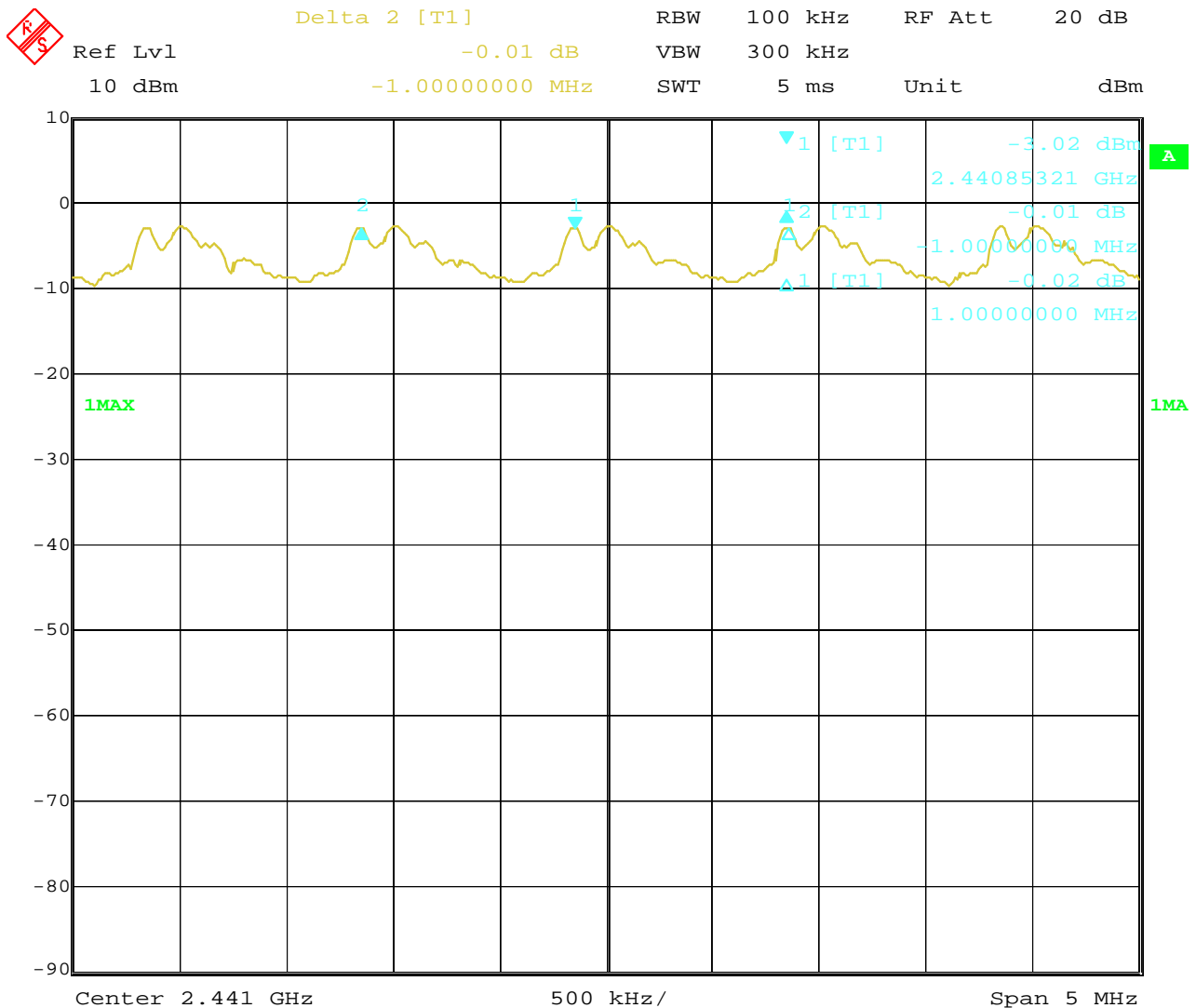
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Type of Modulation: 8DPSK

| | | | |
|------------------------------|-----------------------------|-----------------------------------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Carrier Frequency Separation | | Limit | Pass/ Fail |
| 1.000MHz | | ≥ 25 kHz or 2/3 of 20 dB bandwidth | Pass |

Test Plots



Date: 30.AUG.2020 16:41:14

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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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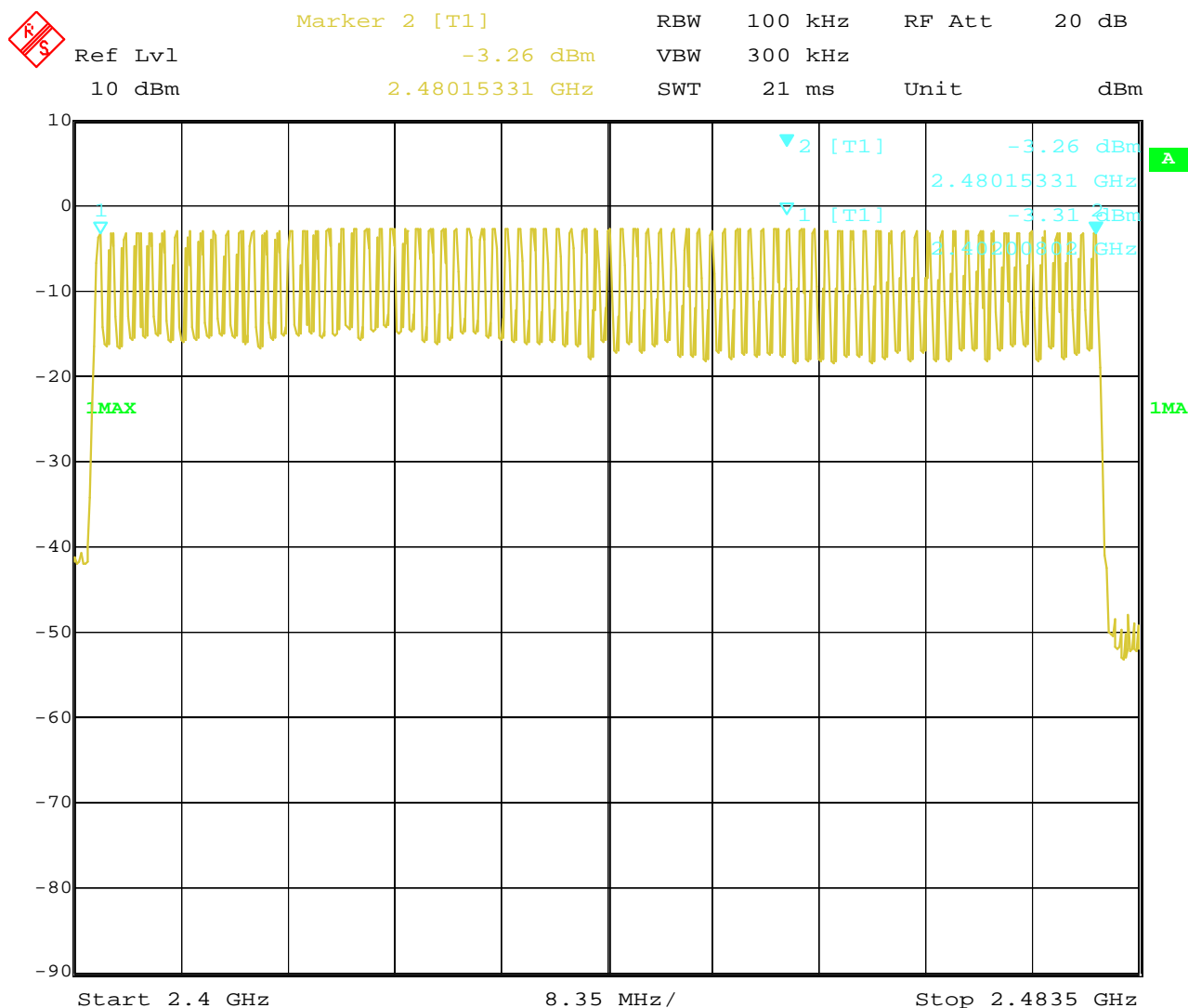


10.4 Test Result

Type of Modulation: GFSK

| | | | |
|---------------------|-----------------------------|---------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Operating Frequency | Number of hopping channels | Limit | Pass/ Fail |
| 2402-2480MHz | 79 | ≥ 15 | Pass |

Test Plot



Date: 30.AUG.2020 15:34:13

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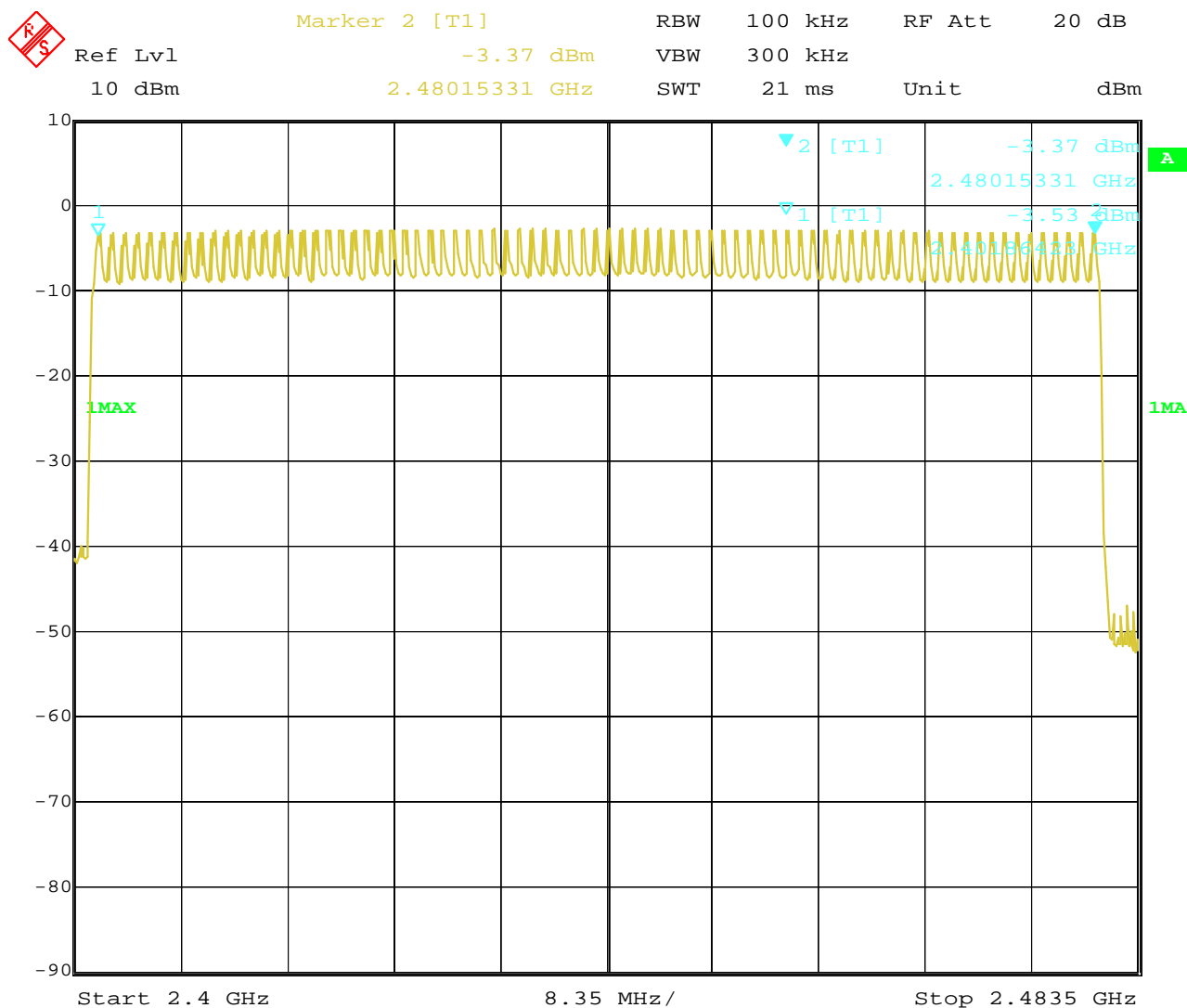
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Type of Modulation: $\pi/4$ DQPSK

| | | | |
|---------------------|-----------------------------|---------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Operating Frequency | Number of hopping channels | Limit | Pass/ Fail |
| 2402-2480MHz | 79 | ≥ 15 | Pass |

Test Plot



Date: 30.AUG.2020 17:01:55

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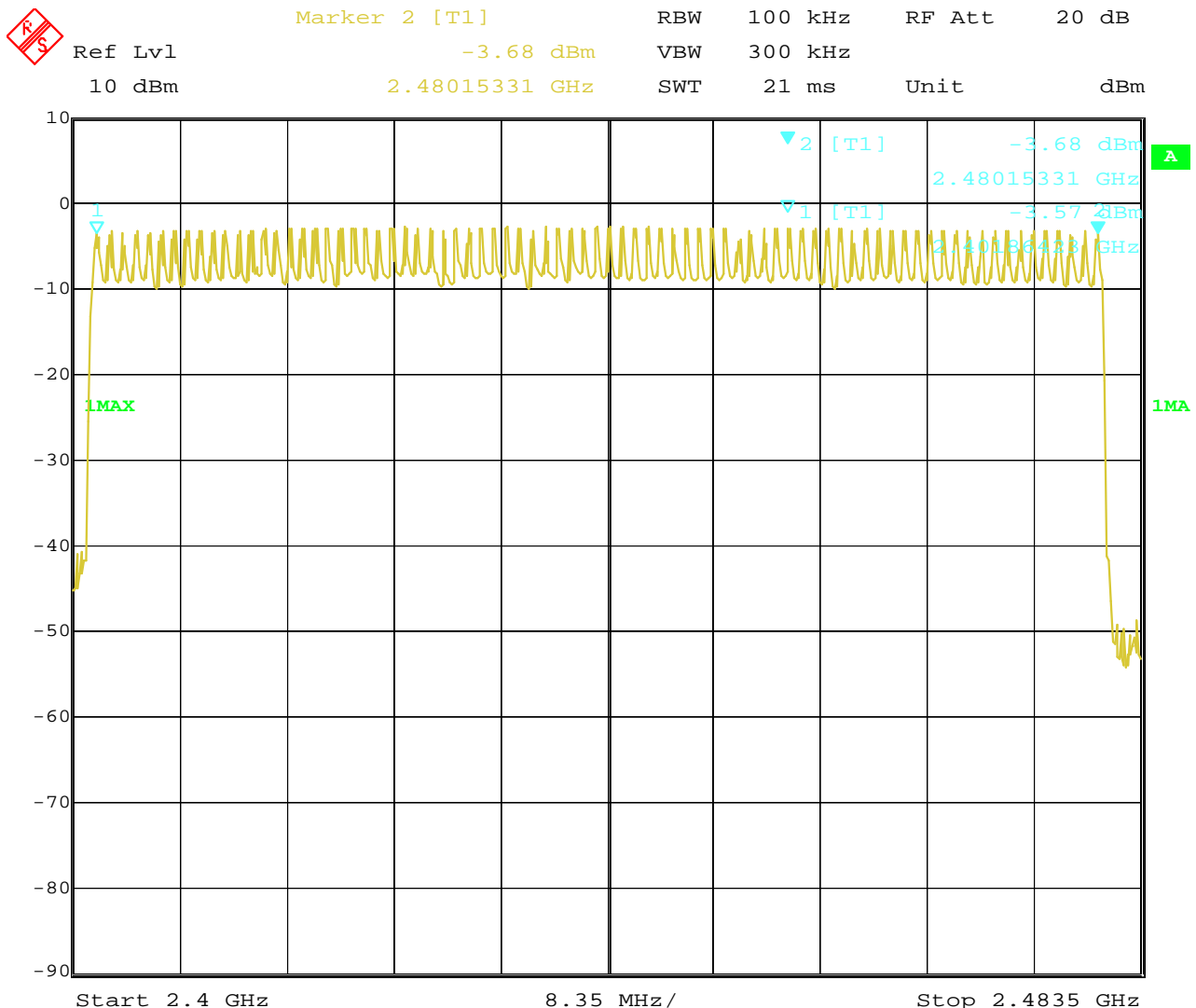
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Type of Modulation: 8DPSK

| | | | |
|---------------------|-----------------------------|---------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Operating Frequency | Number of hopping channels | Limit | Pass/ Fail |
| 2402-2480MHz | 79 | ≥ 15 | Pass |

Test Plot



Date: 30.AUG.2020 16:44:50

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

| | | | | | | | | | |
|-------------|---------|-----------------------------|---------------|---------------|--|------------|--|-------|--|
| EUT | | Bluetooth Wireless Earphone | | Model | | Jelleez-TW | | | |
| Mode | | Keep Transmitting | | Input Voltage | | DC3.7V | | | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | | | |
| Channel | Reading | | Hoping Rate | | | Actual | | Limit | |
| DH5 | | | | | | | | | |
| Middle | 2.986ms | | 266.667 hop/s | | | 0.319s | | 0.4s | |
| DH3 | | | | | | | | | |
| Middle | 1.743ms | | 400 hop/s | | | 0.279s | | 0.4s | |
| DH1 | | | | | | | | | |
| Middle | 0.461ms | | 800 hop/s | | | 0.148s | | 0.4s | |

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

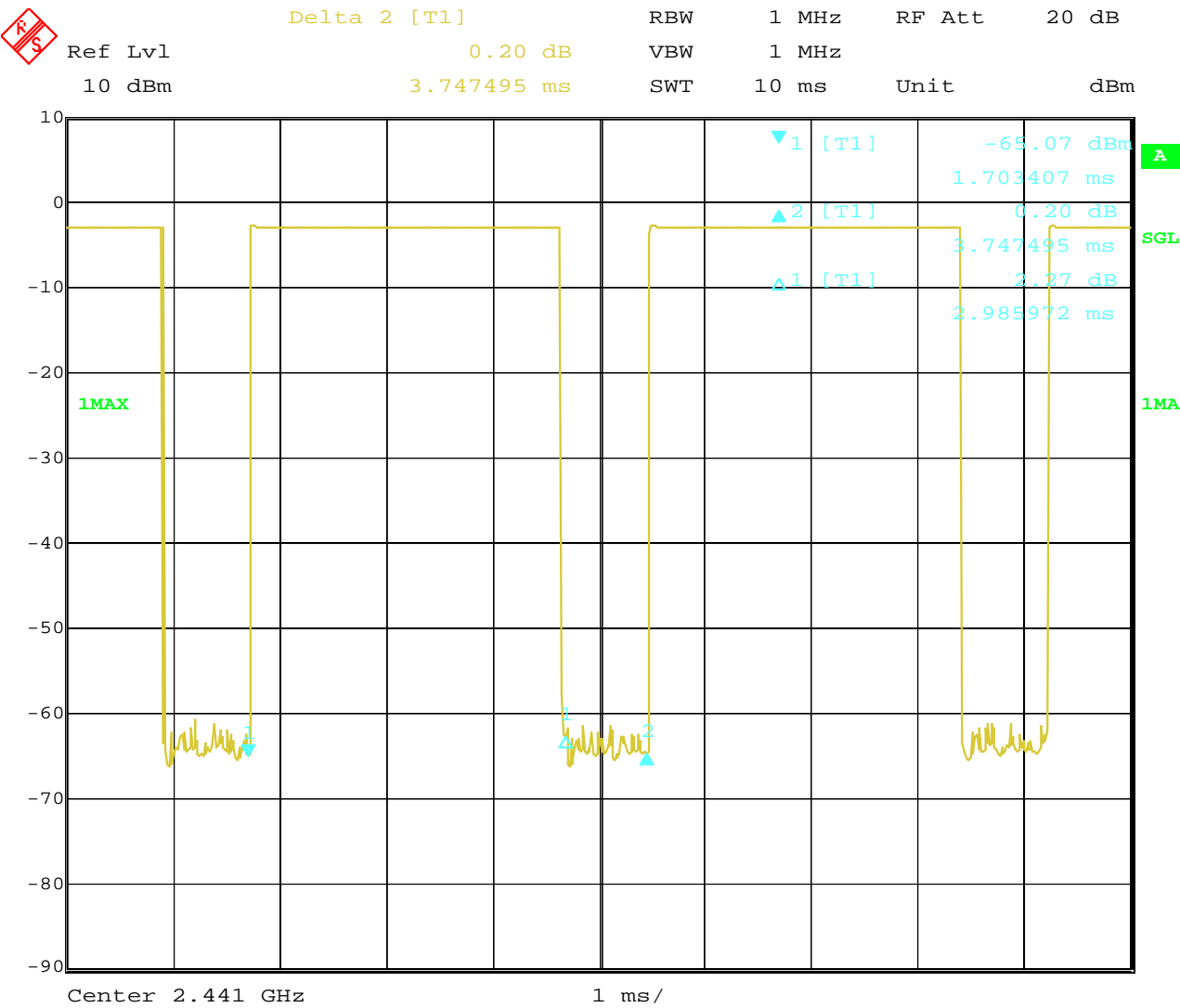
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Test Plots:
DH5

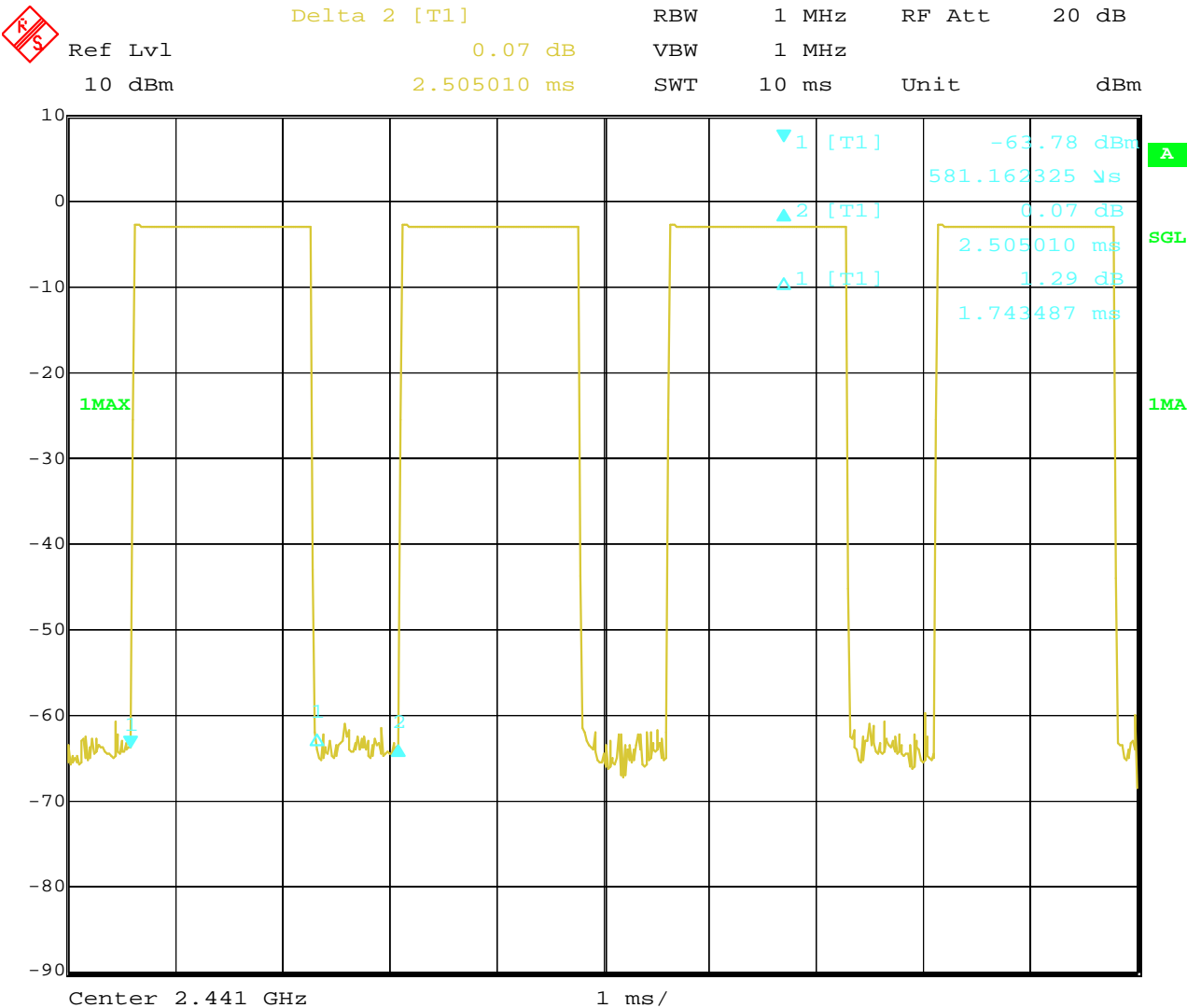


Date: 31.AUG.2020 13:18:43

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DH3

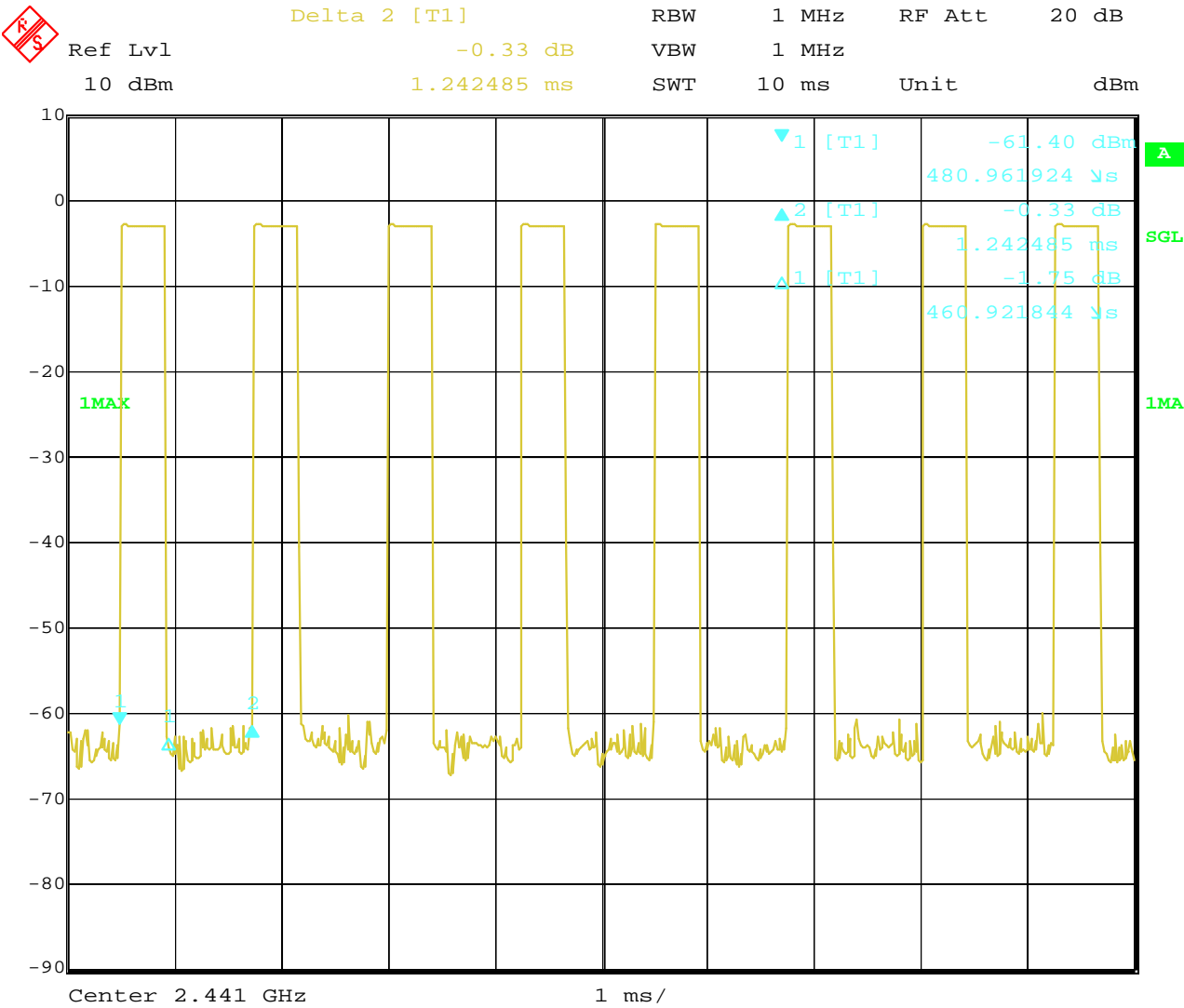


Date: 31.AUG.2020 13:18:12

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DH1



Date: 31.AUG.2020 13:17:20

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Test Result

Type of Modulation: $\pi/4$ DQPSK

| | | | | | | | | | |
|-------------|---------|-----------------------------|---------------|---------------|--|------------|--|-------|--|
| EUT | | Bluetooth Wireless Earphone | | Model | | Jelleez-TW | | | |
| Mode | | Keep Transmitting | | Input Voltage | | DC3.7V | | | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | | | |
| Channel | Reading | | Hoping Rate | | | Actual | | Limit | |
| 2DH5 | | | | | | | | | |
| Middle | 2.986ms | | 266.667 hop/s | | | 0.319s | | 0.4s | |
| 2DH3 | | | | | | | | | |
| Middle | 1.743ms | | 400 hop/s | | | 0.279s | | 0.4s | |
| 2DH1 | | | | | | | | | |
| Middle | 0.481ms | | 800 hop/s | | | 0.154s | | 0.4s | |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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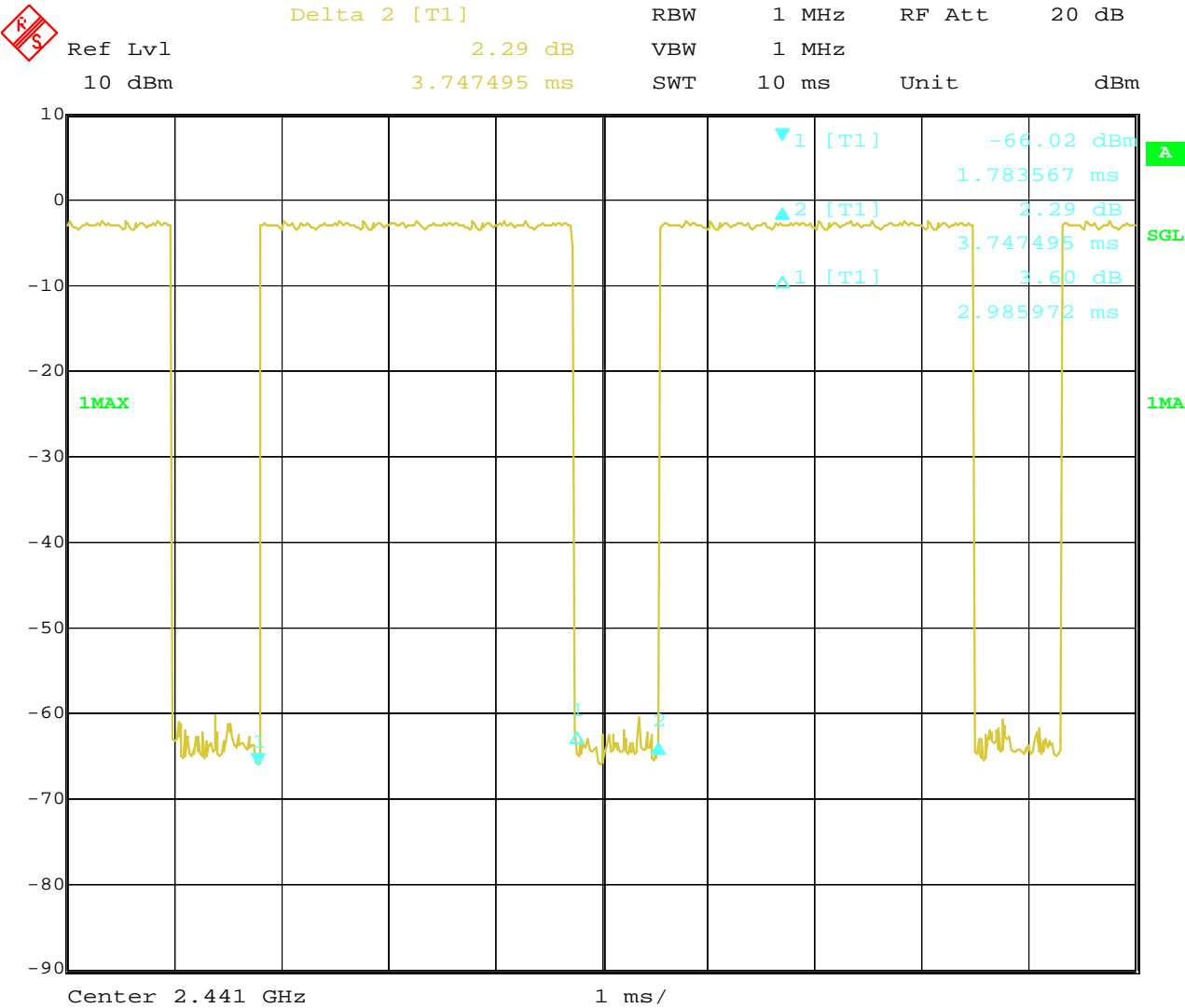
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Test Plots:

2DH5

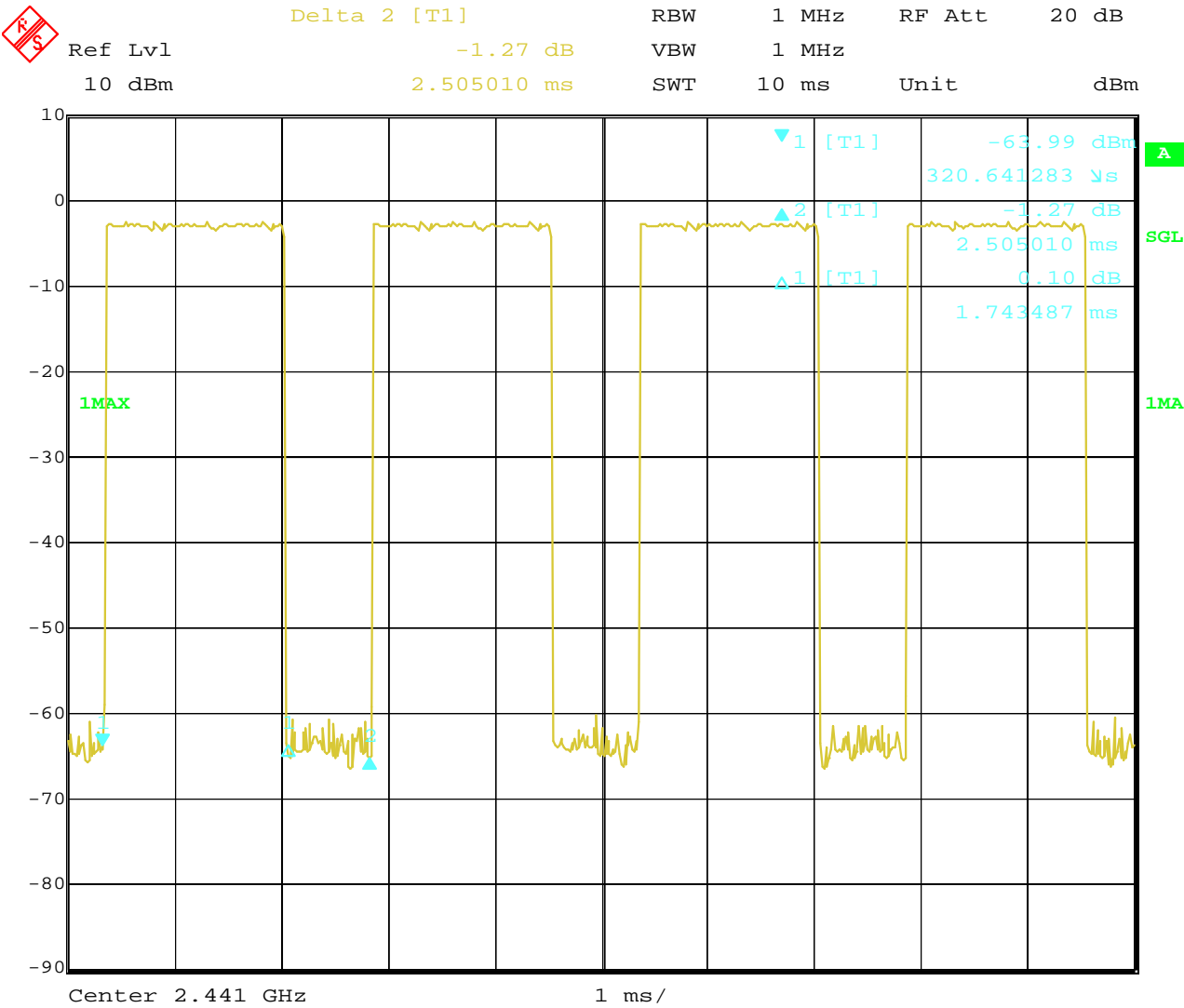


Date: 31.AUG.2020 13:16:09

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2DH3

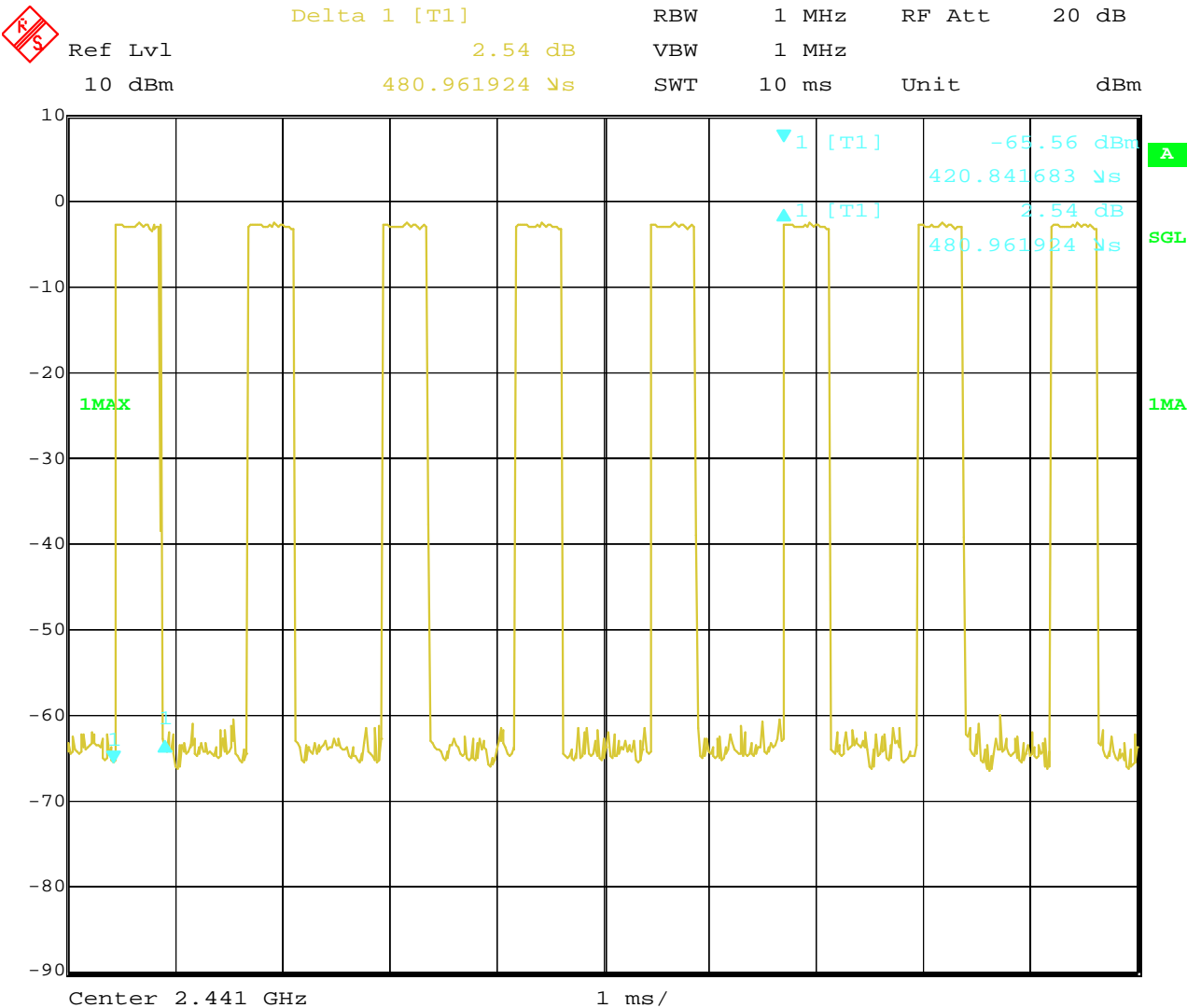


Date: 31.AUG.2020 13:15:06

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2DH1



Date: 31.AUG.2020 13:12:55

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Type of Modulation: 8DPSK

| | | | | | | | |
|-------------|---------|-----------------------------|---------------|---------------|--|------------|-------|
| EUT | | Bluetooth Wireless Earphone | | Model | | Jelleez-TW | |
| Mode | | Keep Transmitting | | Input Voltage | | DC3.7V | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | |
| Channel | Reading | | Hoping Rate | | | Actual | Limit |
| 3DH5 | | | | | | | |
| Middle | 2.986ms | | 266.667 hop/s | | | 0.319s | 0.4s |
| 3DH3 | | | | | | | |
| Middle | 1.723ms | | 400 hop/s | | | 0.276s | 0.4s |
| 3DH1 | | | | | | | |
| Middle | 0.481ms | | 800 hop/s | | | 0.154s | 0.4s |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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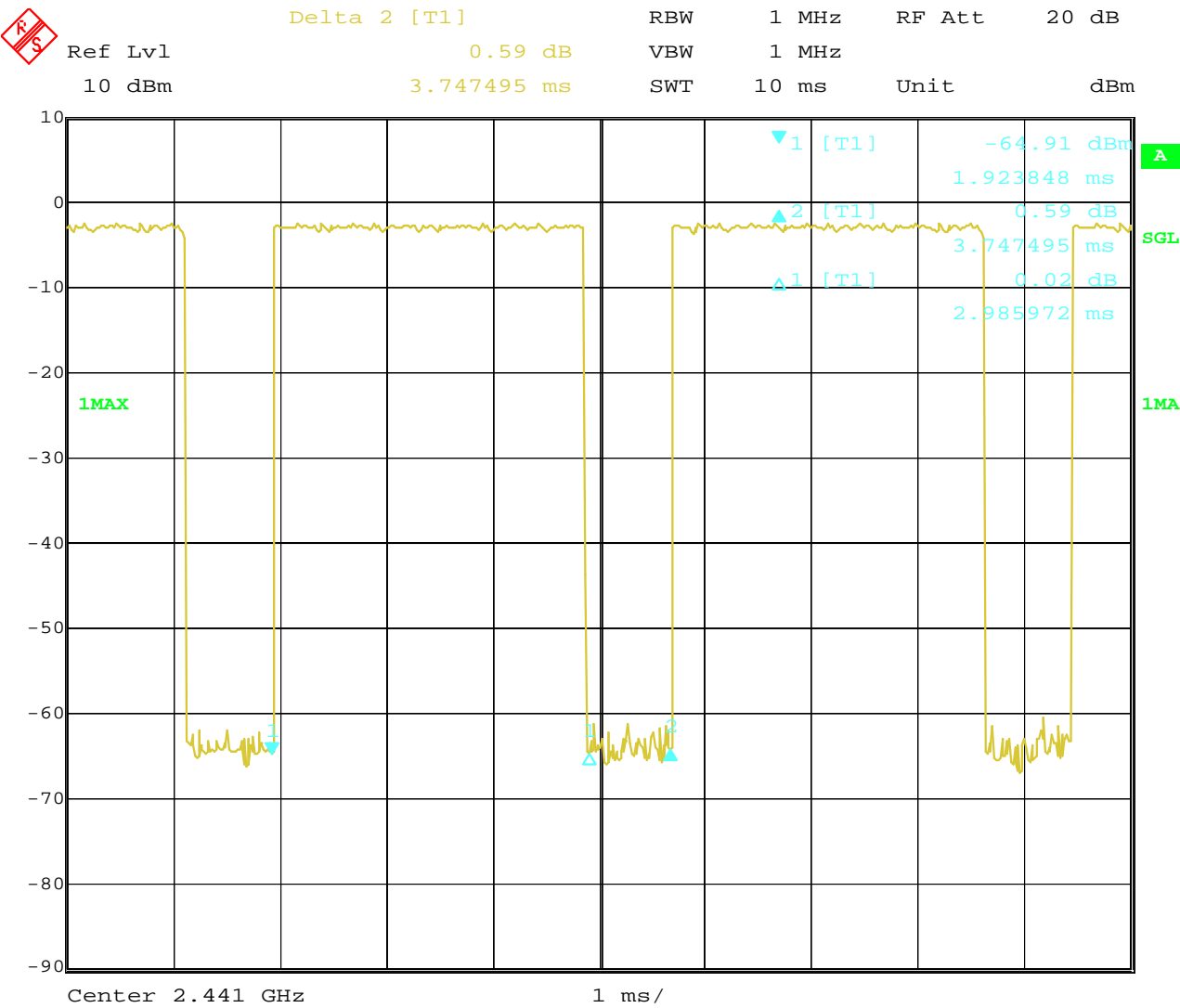
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Test Plots:

3DH5



Date: 31.AUG.2020 13:16:40

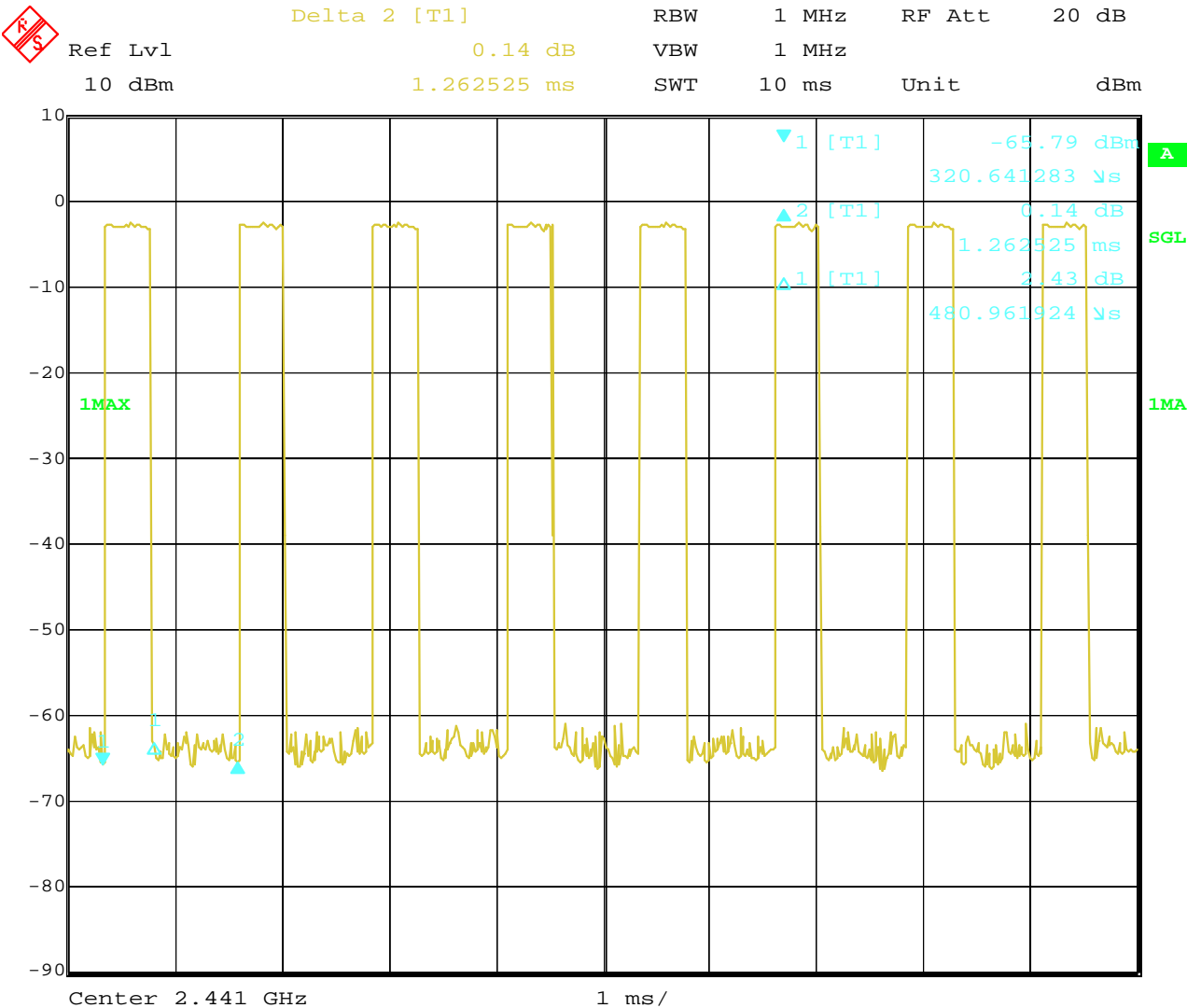
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3DH1



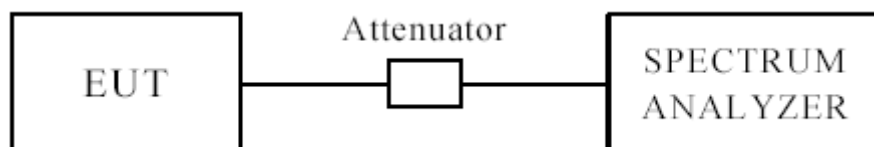
Date: 31.AUG.2020 13:13:36

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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the $2.4\text{--}2.483\text{GHz}$ allocated band a measurement was made of radiated emission test. Peak values with $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector.

For bandage test, the spectrum set as follows: $\text{RBW}=100\text{kHz}$, $\text{VBW}=300\text{ kHz}$. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz – 25GHz was tested. And It met the FCC rule.

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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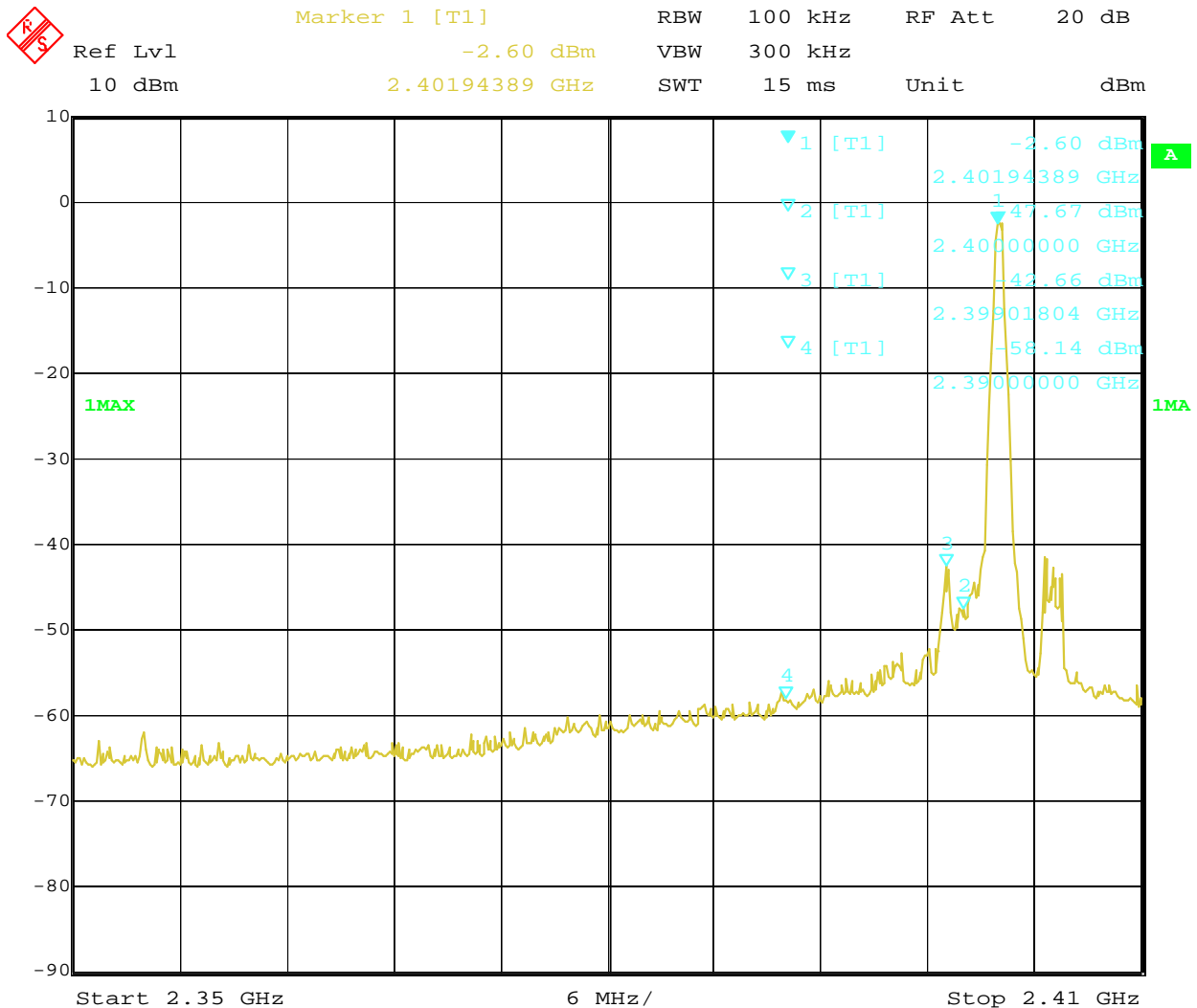


Type of Modulation: GFSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 8.SEP.2020 13:40:39

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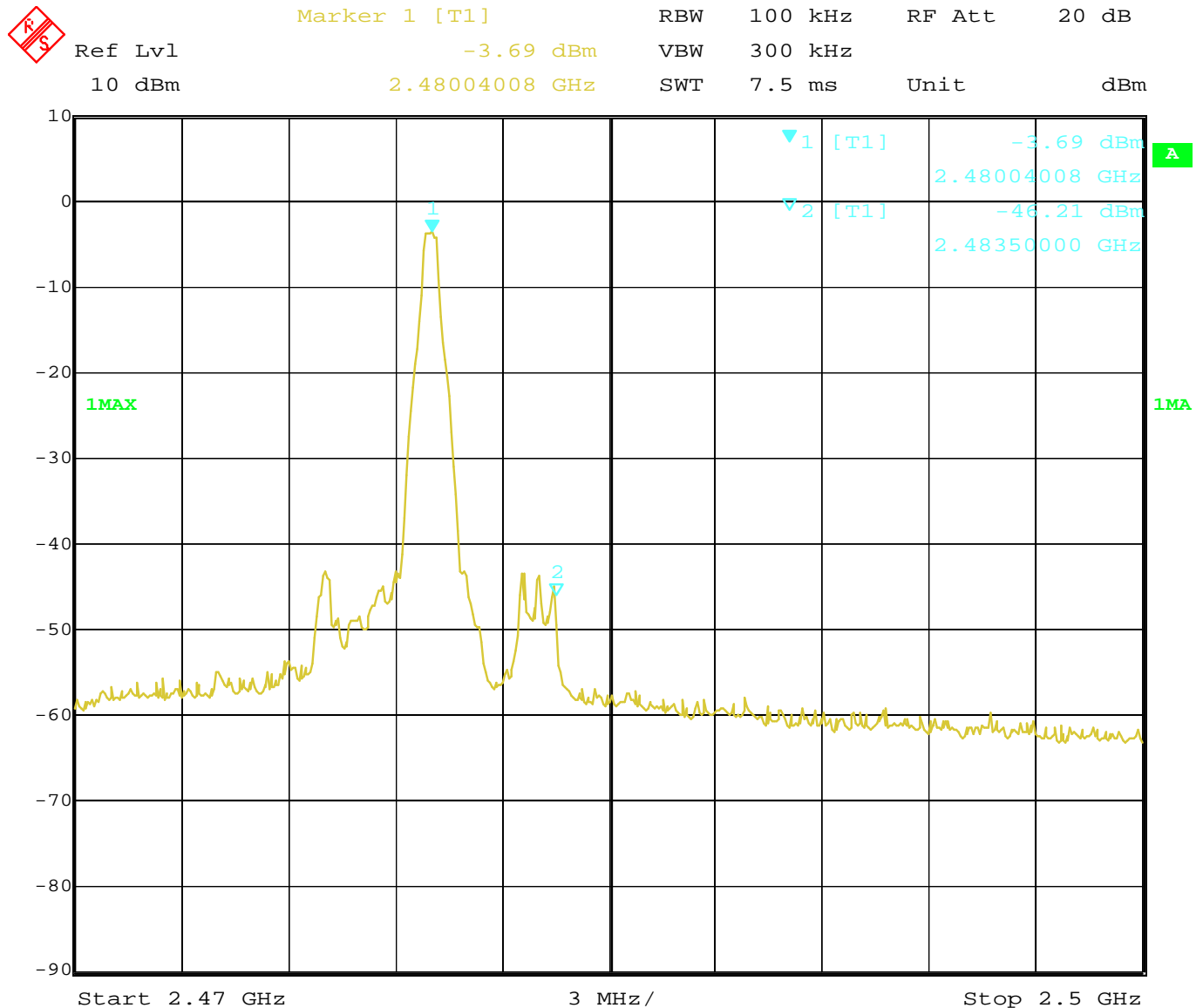


Type of Modulation: GFSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 8.SEP.2020 13:42:50

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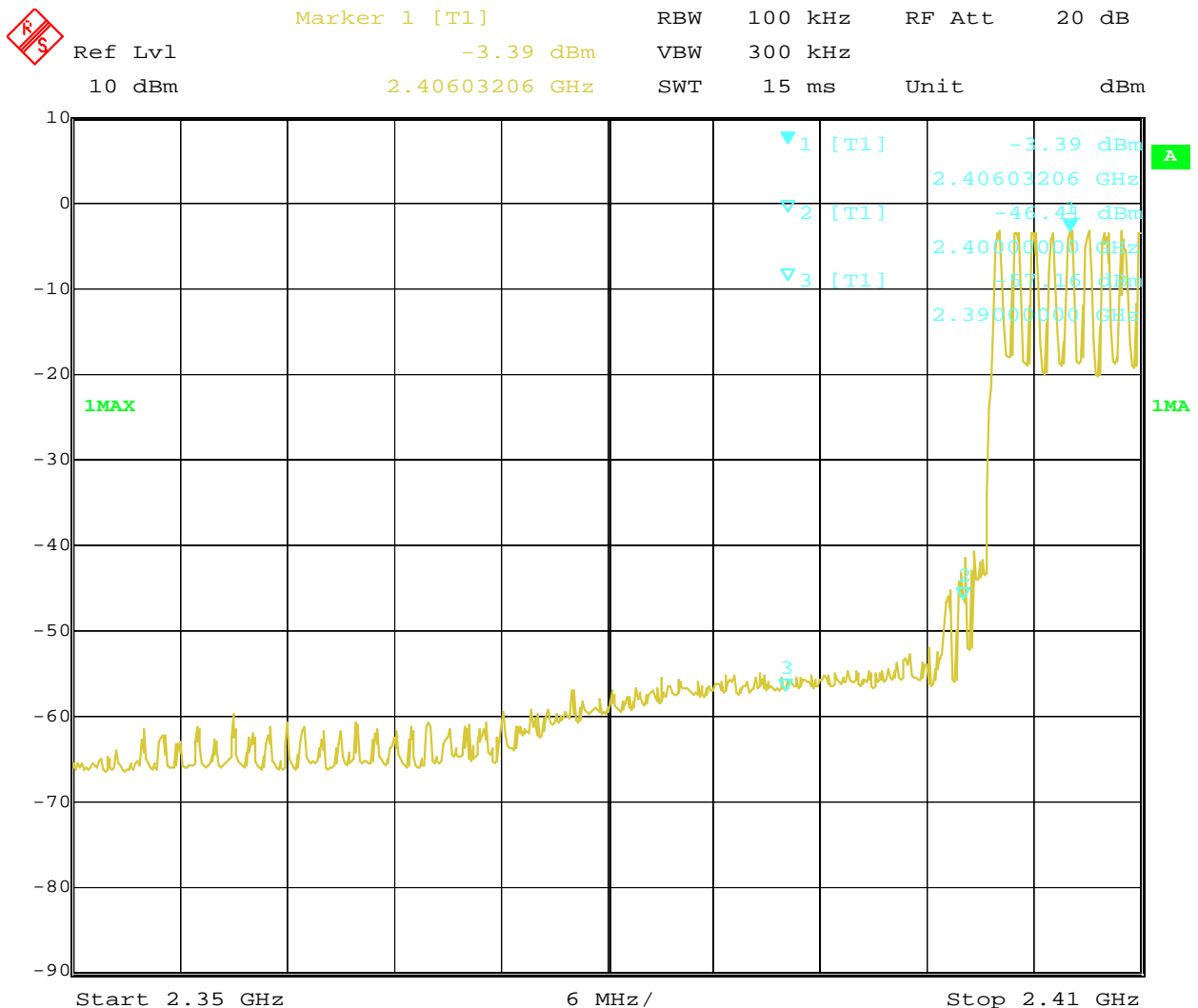


Type of Modulation: GFSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:13:46

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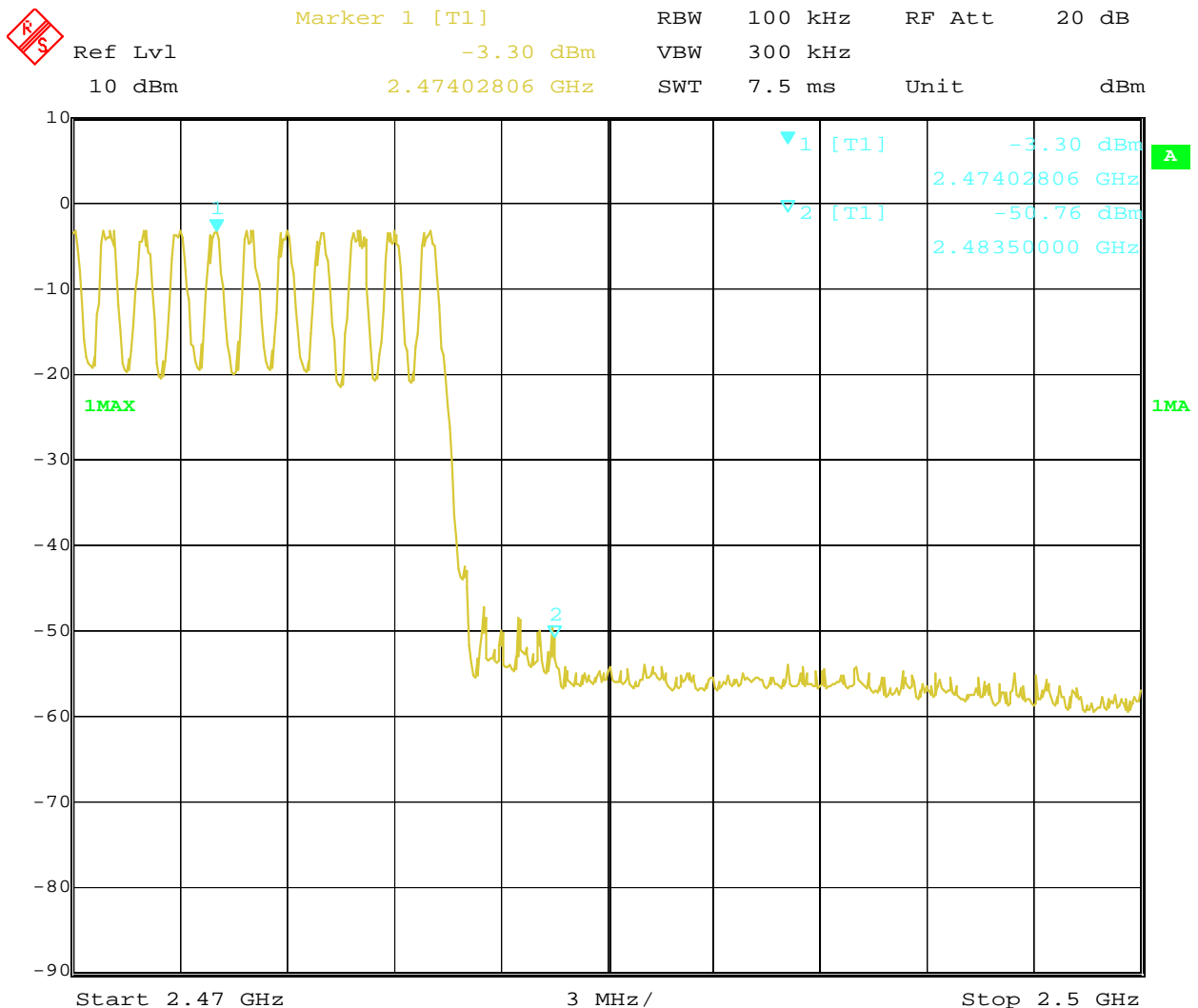


Type of Modulation: GFSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:11:42

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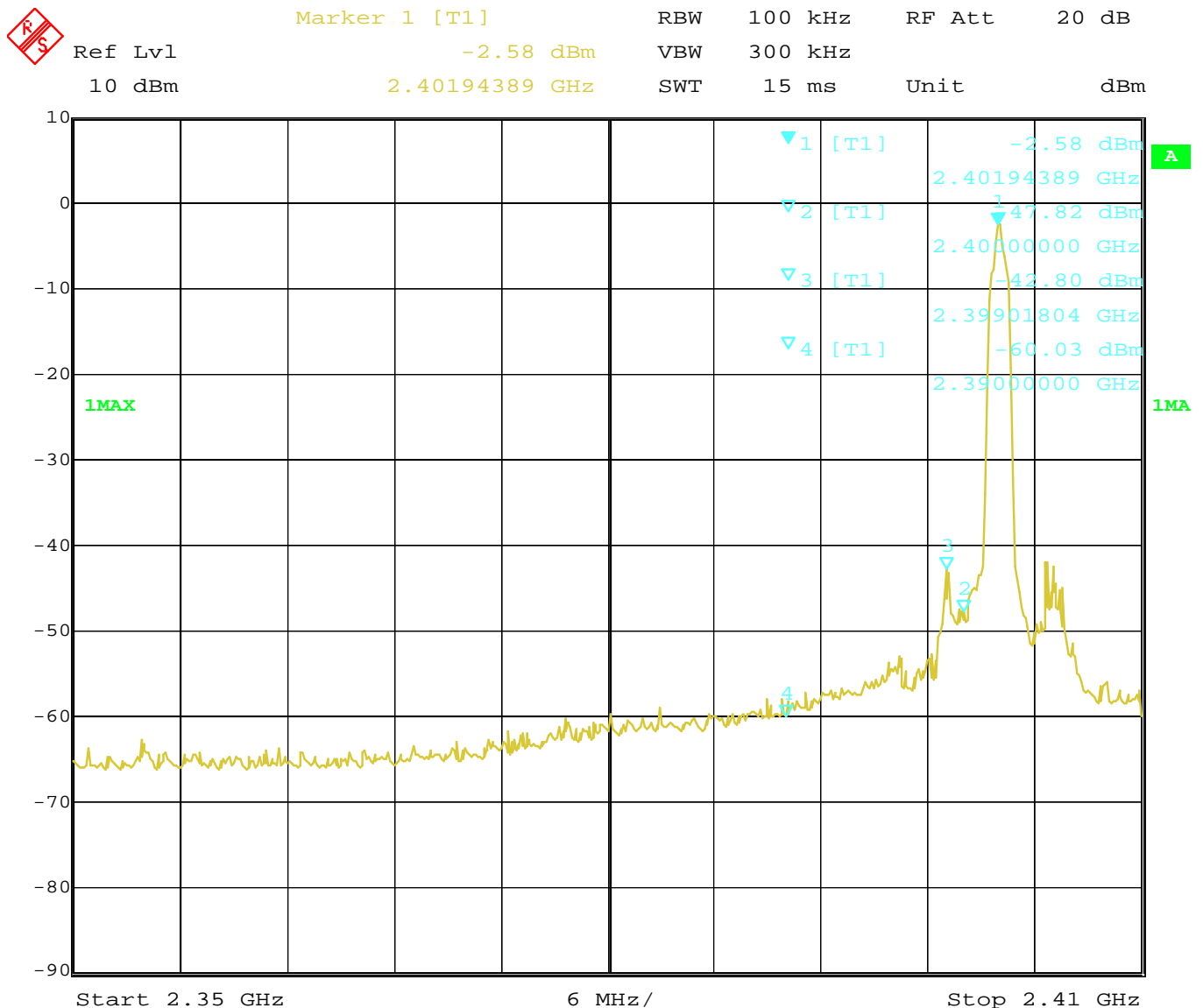


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 8.SEP.2020 13:39:12

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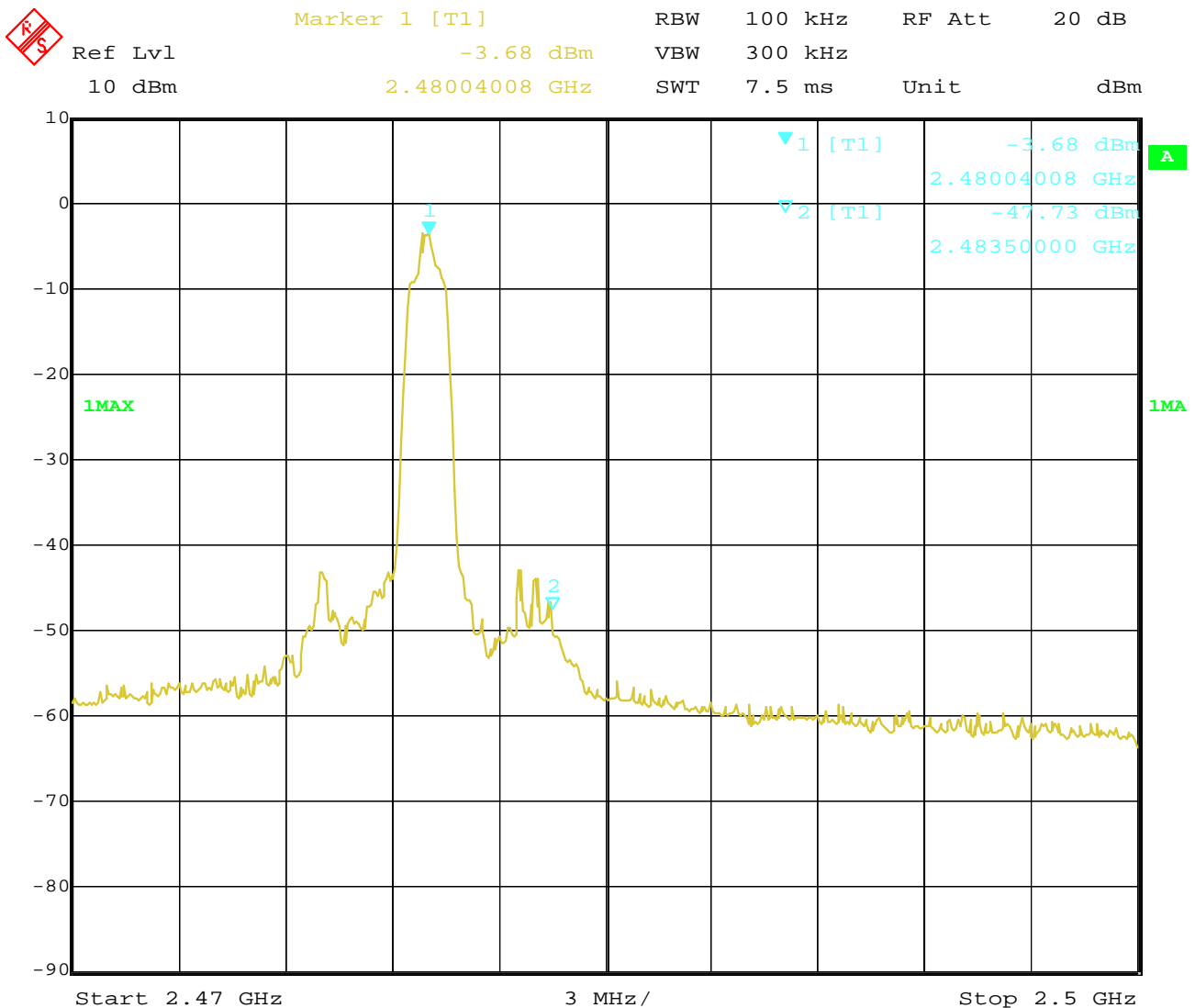


Type of Modulation: $\pi/4$ DQPSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 8.SEP.2020 13:45:56

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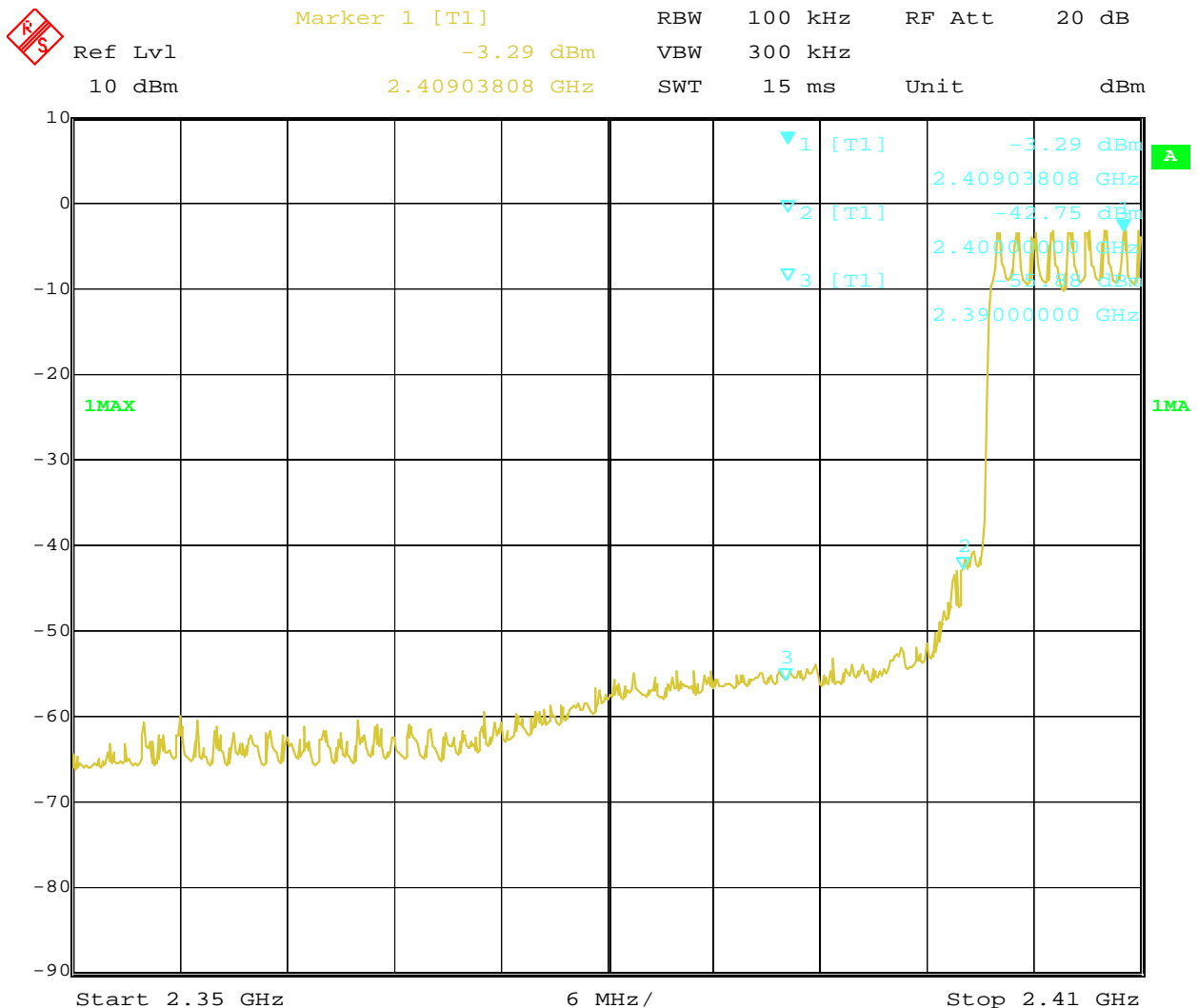


Type of Modulation: $\pi/4$ QPSK

12.4 Out of Band Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:17:41

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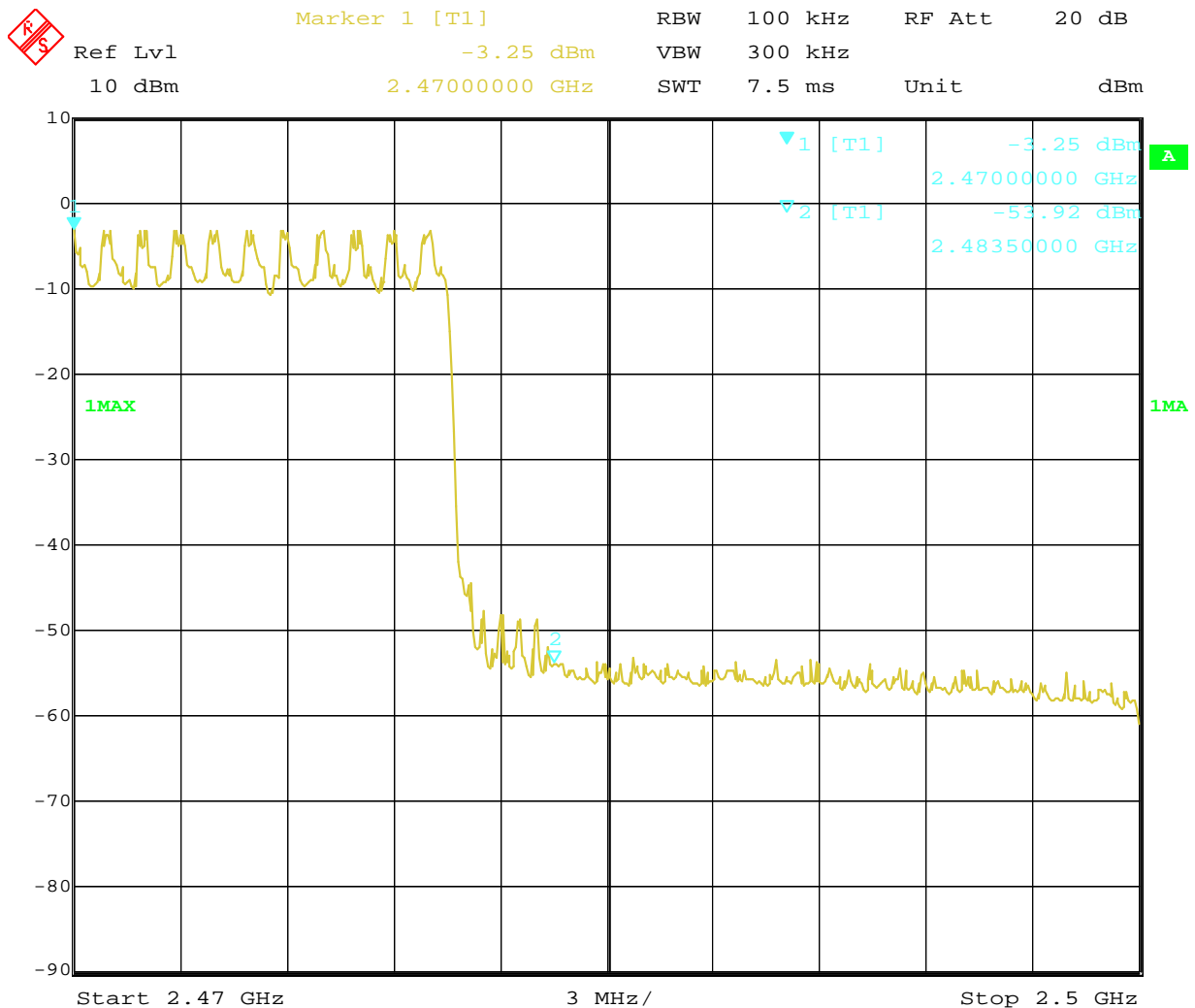


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:06:05

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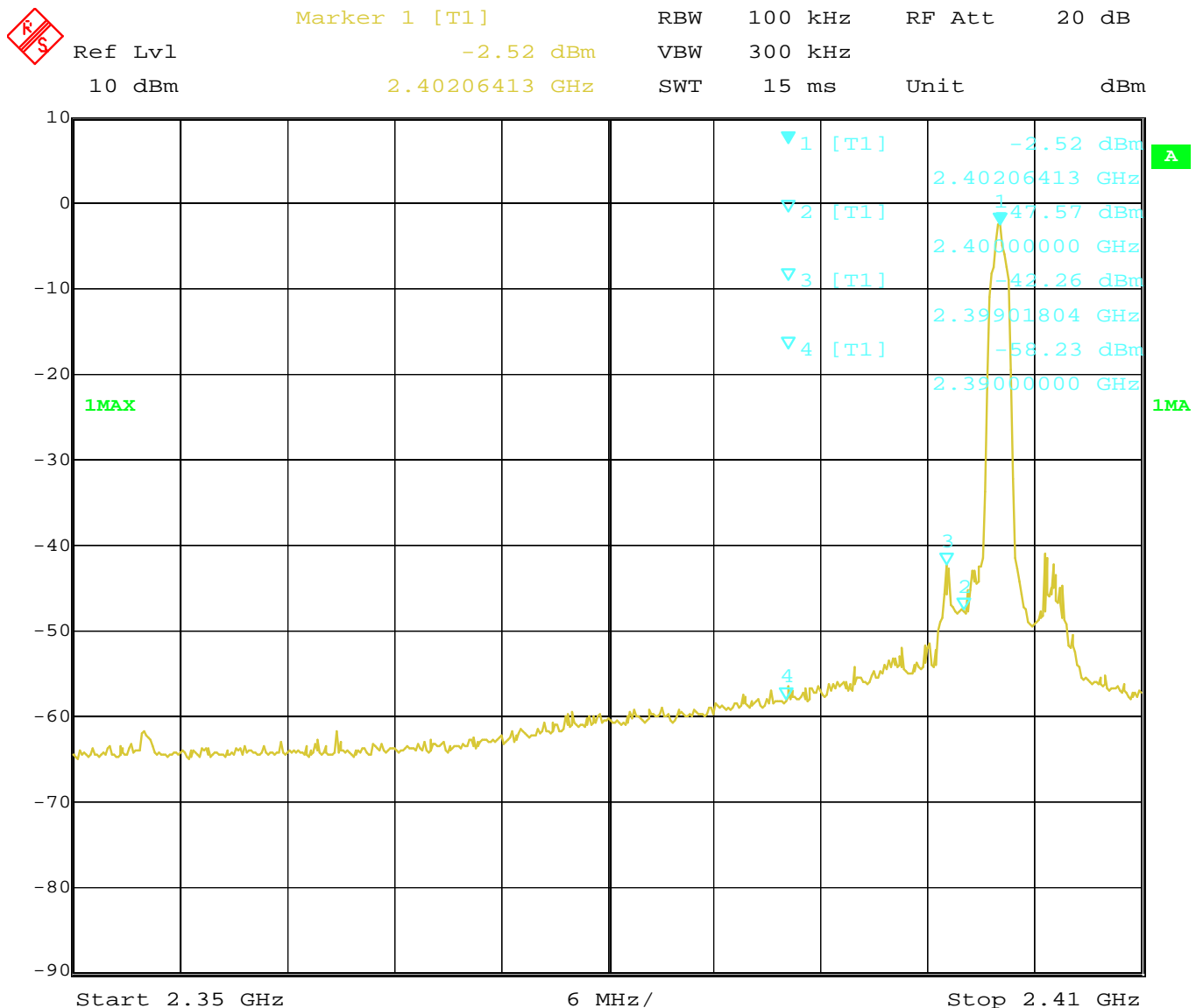


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 8.SEP.2020 13:38:25

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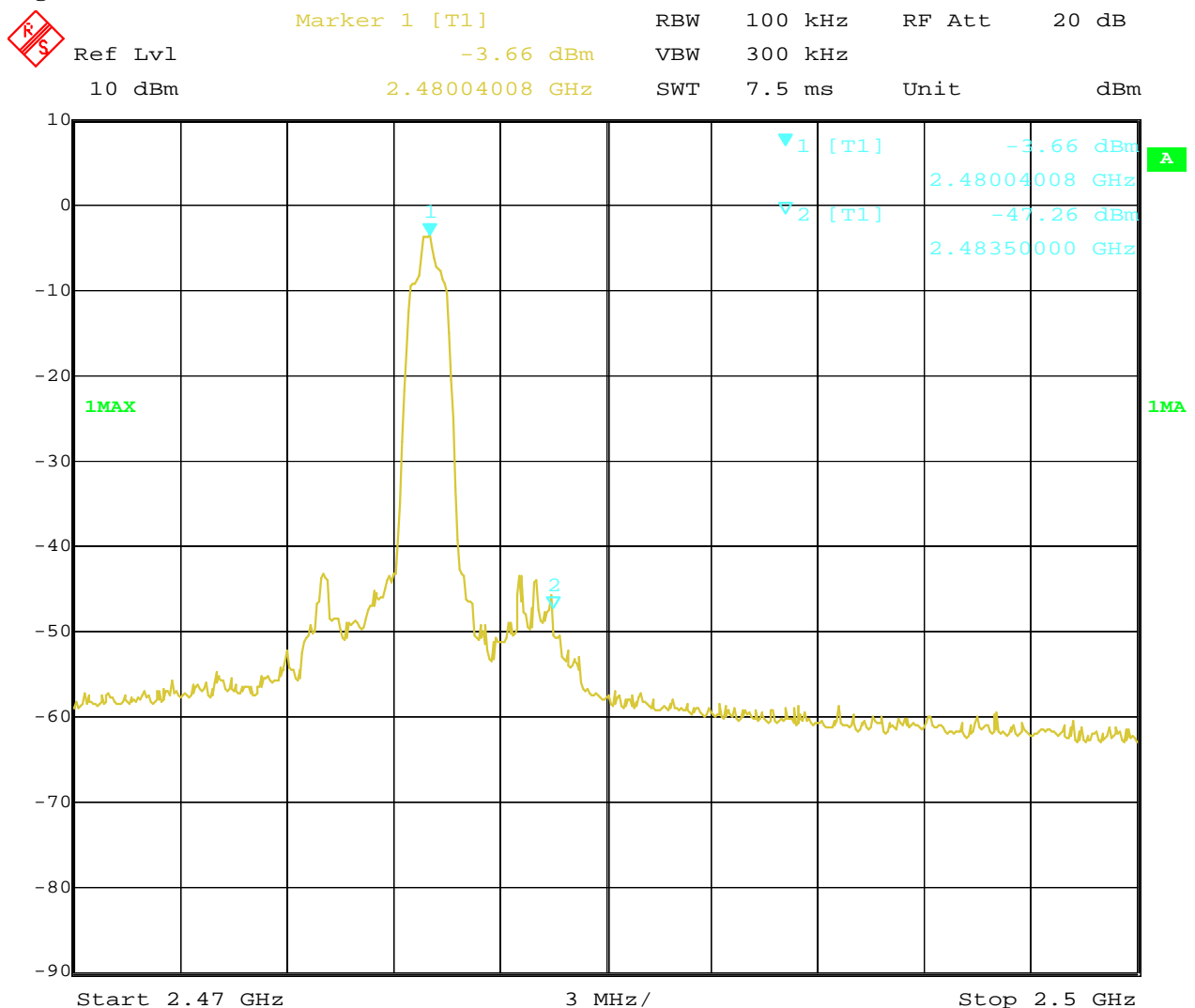


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

| | | | | |
|----------------------------------------|-----------------------------|----|---------------|------------|
| Product: | Bluetooth Wireless Earphone | | Test Mode: | Jelleez-TW |
| Mode | Keeping Transmitting | | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in Restrict Band 2483.5MHz | PK (dBμV/m) | -- | Limit | 74(dBμV/m) |
| | AV(dBμV/m) | -- | | 54(dBμV/m) |

Test Figure:



Date: 8.SEP.2020 13:48:58

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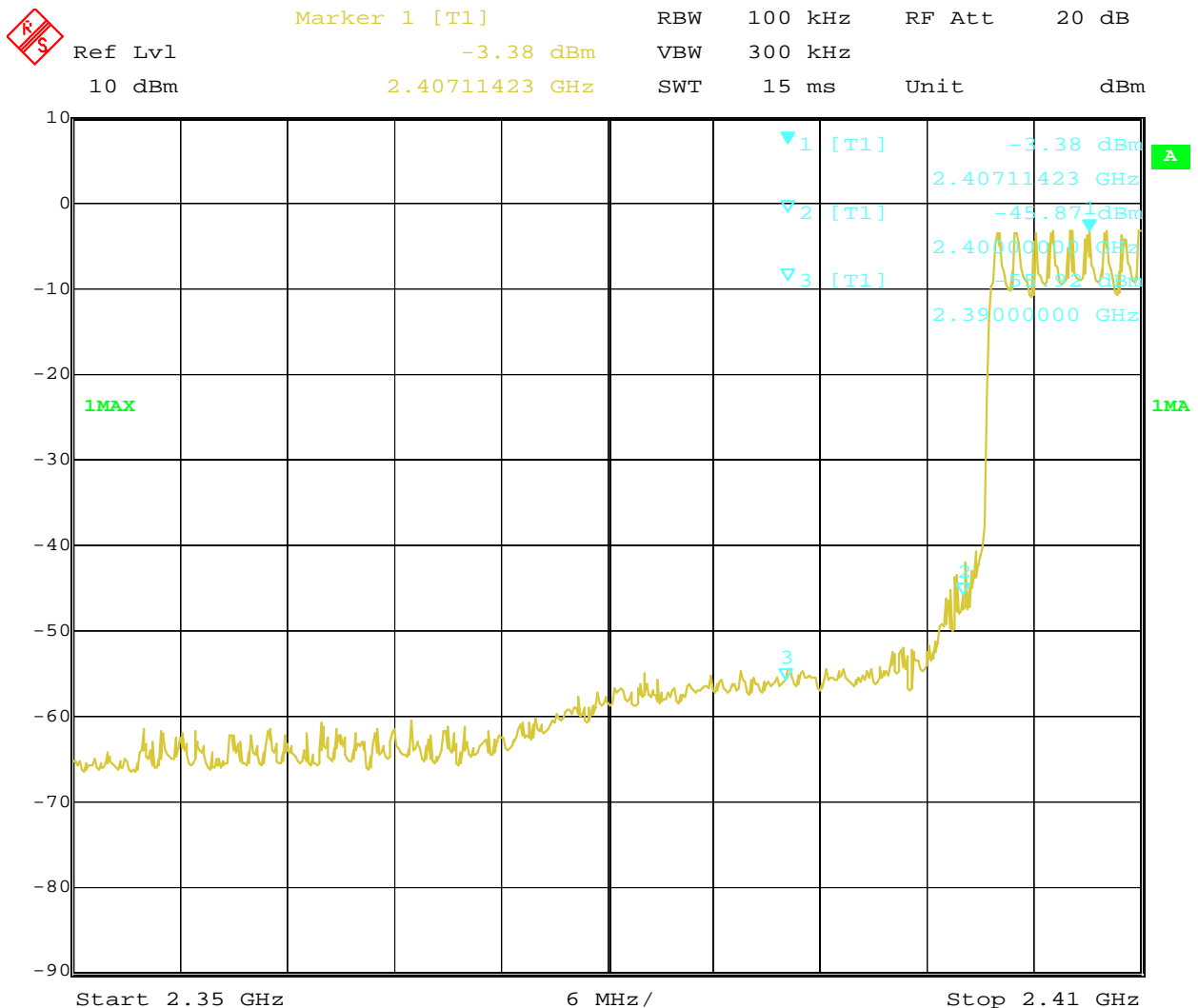


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:19:54

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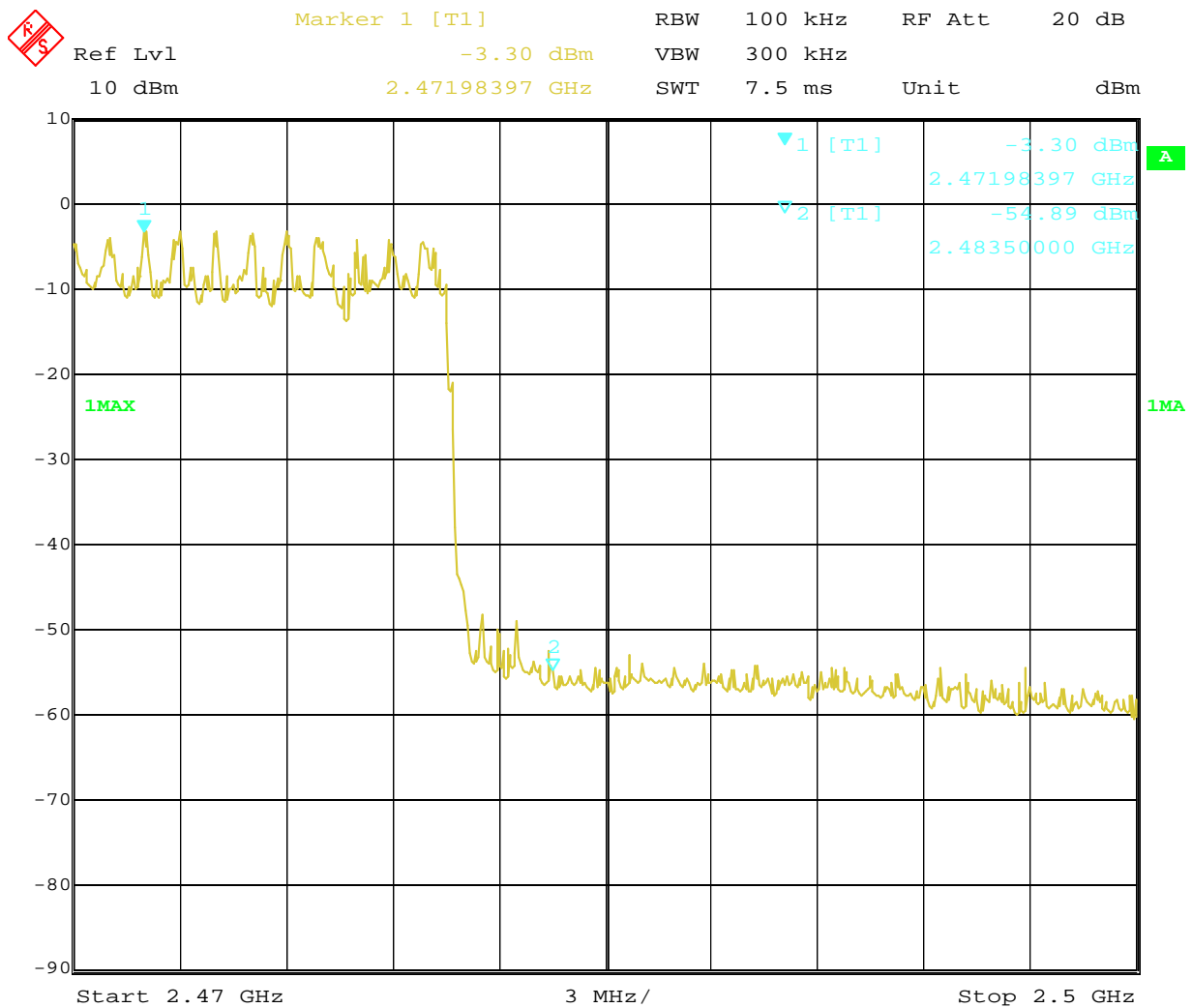


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

| | | | |
|--------------|-----------------------------|---------------|------------|
| Product: | Bluetooth Wireless Earphone | Test Mode: | Jelleez-TW |
| Mode | Hopping On | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 30.AUG.2020 17:08:41

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12.4 Restrict Band Measurement

| | | | | | | | | | | |
|--------------|-----------------------------|-----------------|------------|--|--|--|--|--|--|--|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW | | | | | | | |
| Mode | Keep Transmitting | Input Voltage | DC3.7V | | | | | | | |
| Temperature | 24 deg. C, | Humidity | 56% RH | | | | | | | |
| Test Result: | Pass | Modulation Type | 8DPSK | | | | | | | |

FCC Part 15B Class B 1GHz-18GHz - 2

1.0E+2

90

80

70

60

50

40

30

2350

2410

Frequency (MHz)

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2390.340 | 41.09 | -3.53 | 54.0 | -12.91 | Peak | 227.00 | 100 | H | Pass |

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12.4 Restrict Band Measurement

| | | | |
|--------------|-----------------------------|-----------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Keep Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Modulation Type | 8DPSK |

FCC Part 15B Class B 1GHz-18GHz - 2

1.0E+2

90

80

70

60

50

40

30

level (dBuV/m)

2350

2410

Frequency (MHz)

M1

8

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2390.325 | 44.27 | -3.53 | 54.0 | -9.73 | Peak | 166.00 | 100 | V | Pass |

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12.4 Restrict Band Measurement

| | | | | | | | | | | |
|--------------|-----------------------------|-----------------|------------|--|--|--|--|--|--|--|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW | | | | | | | |
| Mode | Keep Transmitting | Input Voltage | DC3.7V | | | | | | | |
| Temperature | 24 deg. C, | Humidity | 56% RH | | | | | | | |
| Test Result: | Pass | Modulation Type | 8DPSK | | | | | | | |

FCC_FCC Part 15B Class B 1GHz-18GHz - 2

1.0E+2

90

80

70

60

50

40

30

20

level (dBuV/m)

2470

2483.5

2500

Frequency (MHz)

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2483.339 | 50.16 | -3.57 | 54.0 | -3.84 | Peak | 239.00 | 100 | H | Pass |

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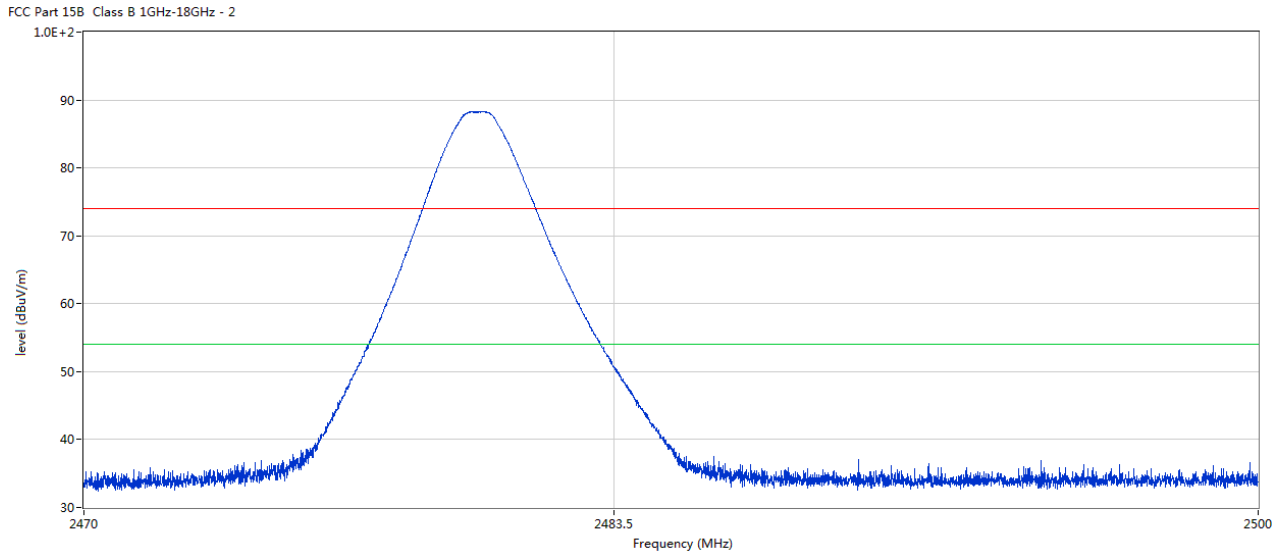
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12.4 Restrict Band Measurement

| | | | |
|--------------|-----------------------------|-----------------|------------|
| EUT | Bluetooth Wireless Earphone | Model | Jelleez-TW |
| Mode | Keep Transmitting | Input Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Modulation Type | 8DPSK |



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2483.517 | 51.40 | -3.57 | 54.0 | -2.60 | Peak | 357.00 | 100 | V | Pass |

- Note: 1. For Restricted band test, only the worst case was reported and 8DPSK was the worst case**
- 2. The measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result**

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

PCB antenna used. The gain is 1.0dBi.

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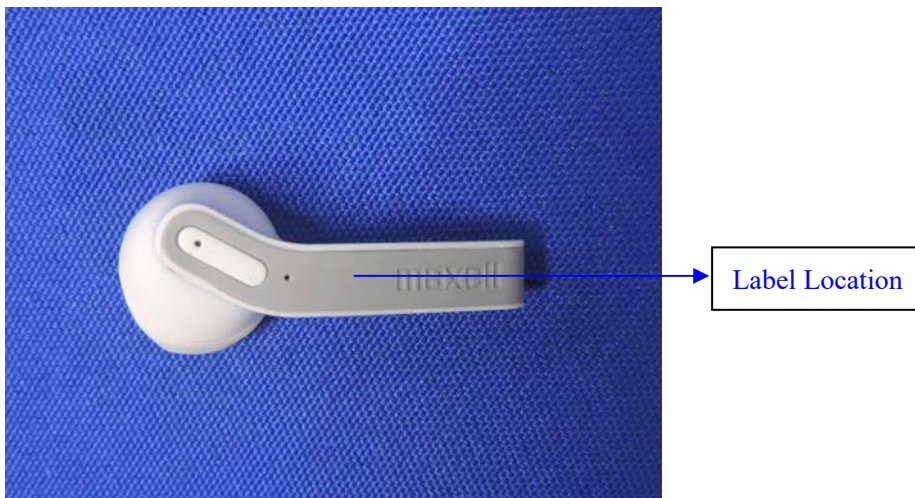


14.0 FCC ID Label

FCC ID: WKA-SS-TW003B02

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

Conducted Emission Test Setup:



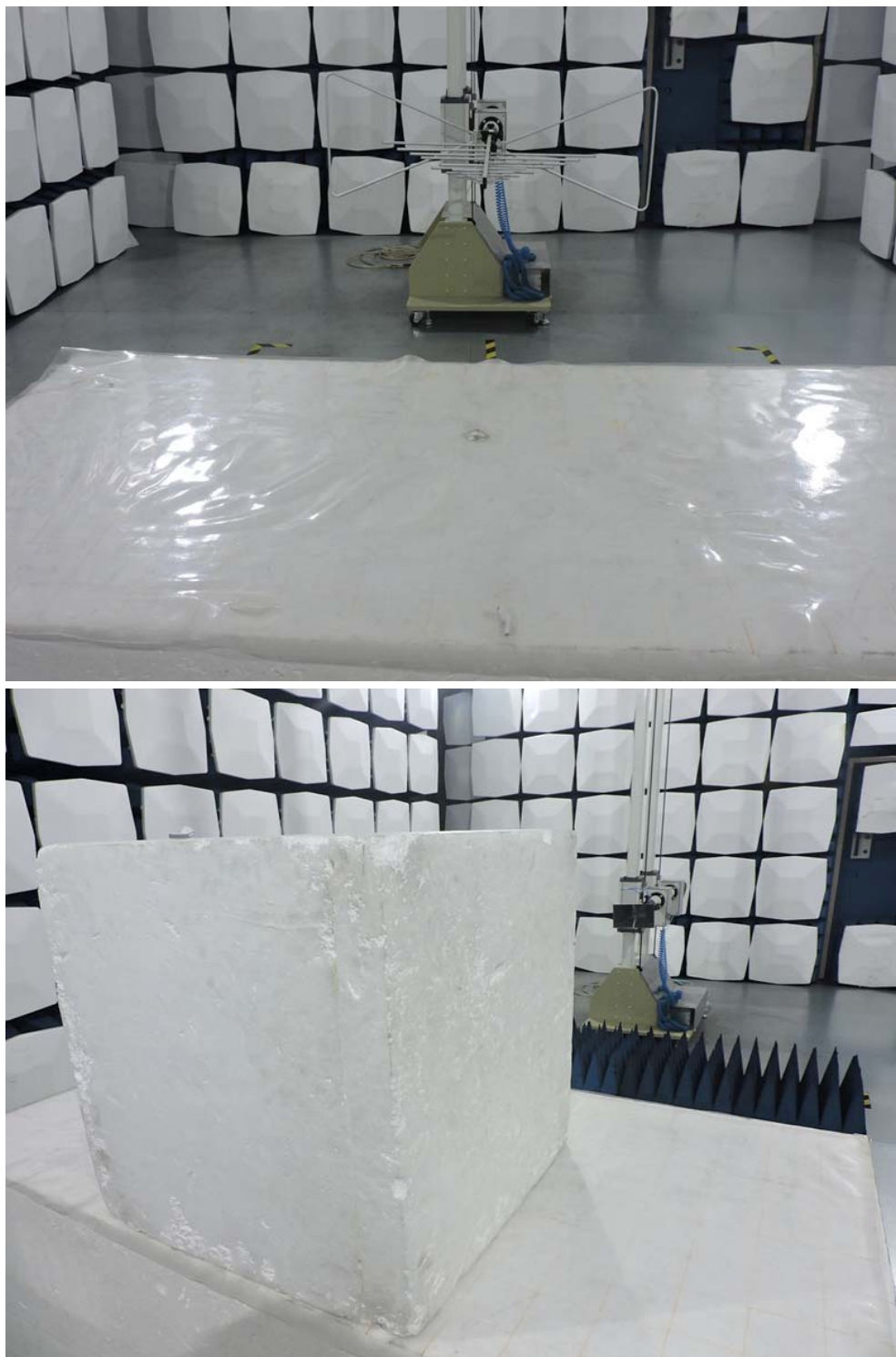
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Radiated Emission Test Setup:



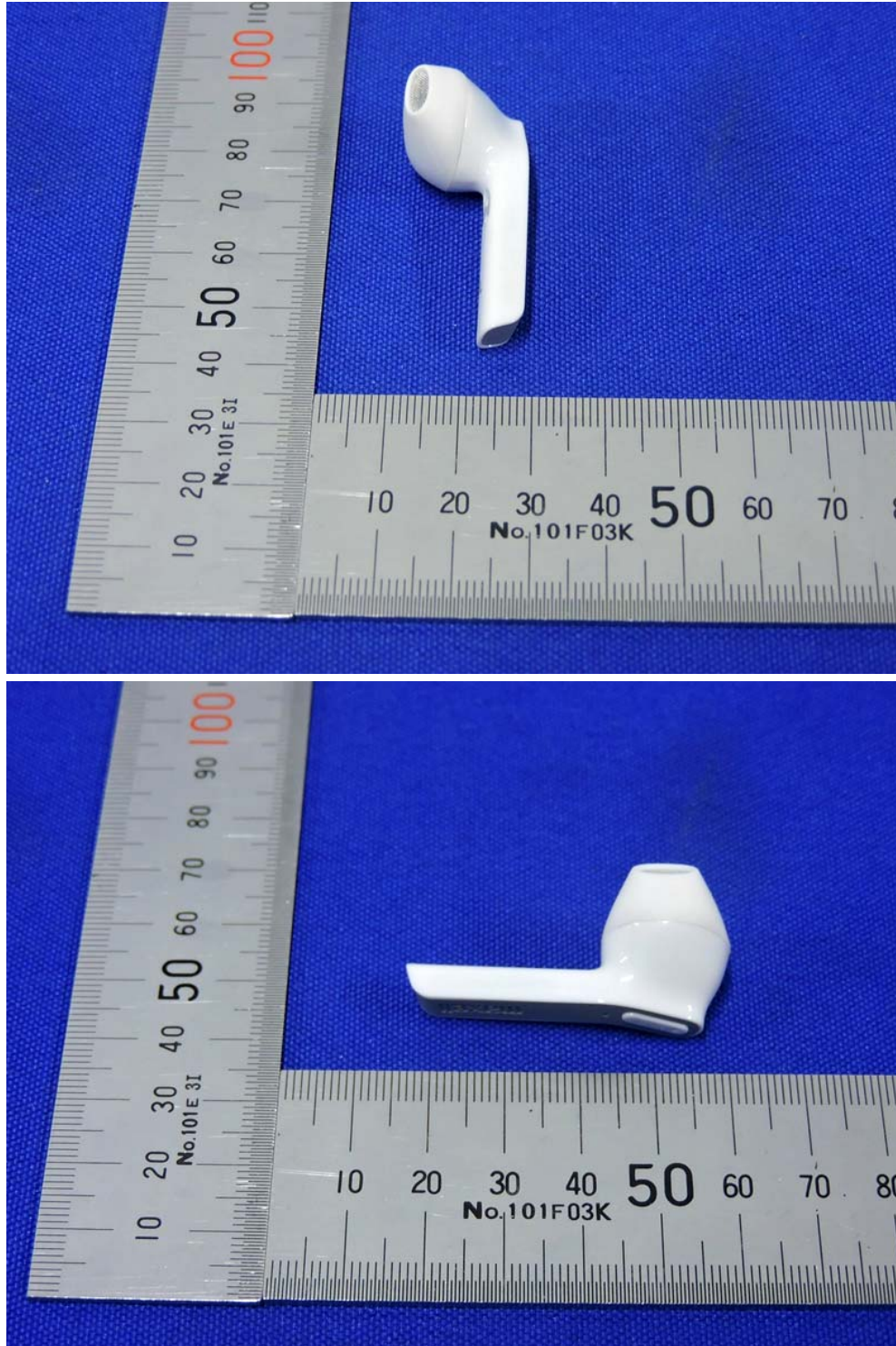
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Photographs – EUT



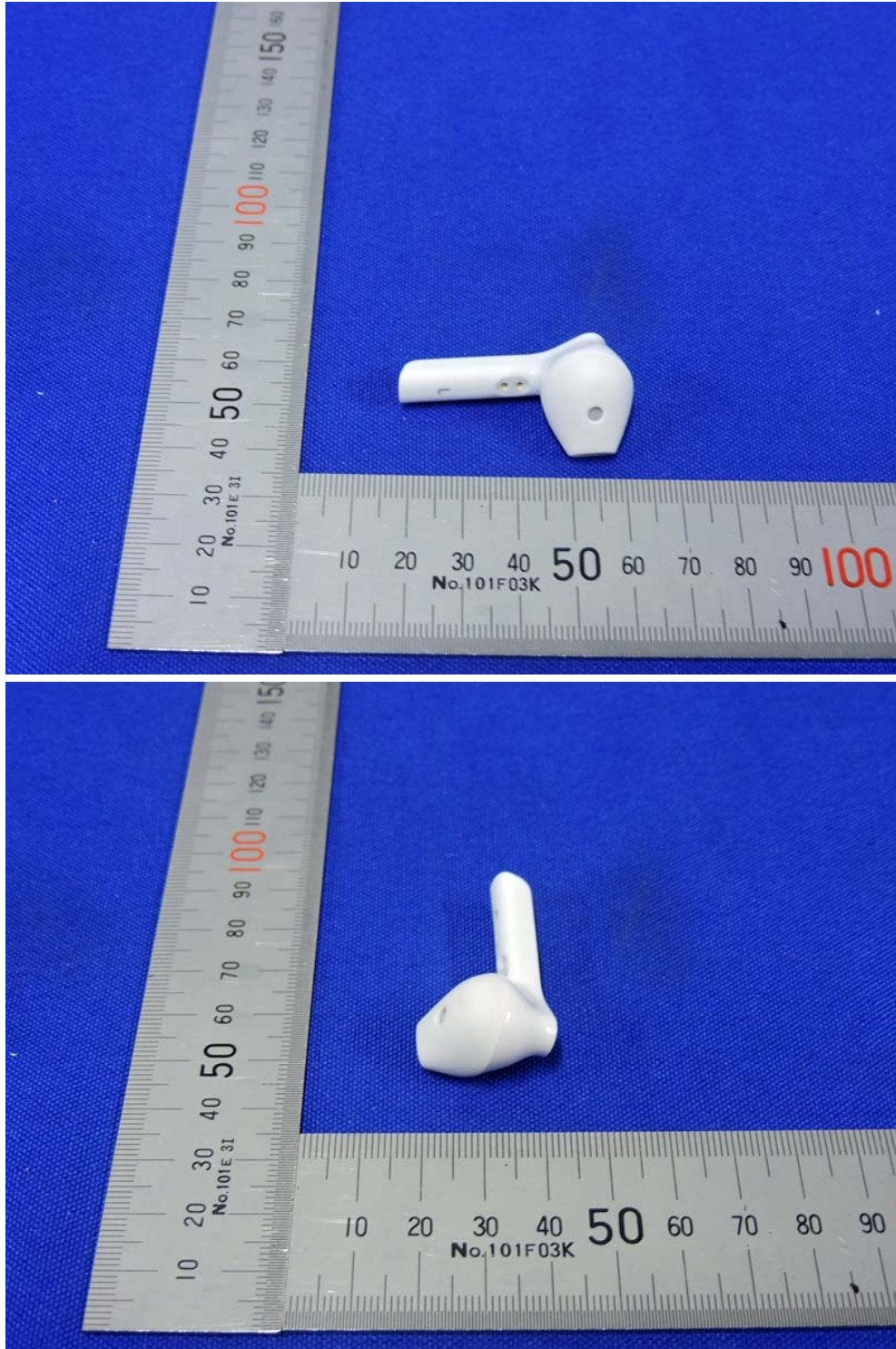
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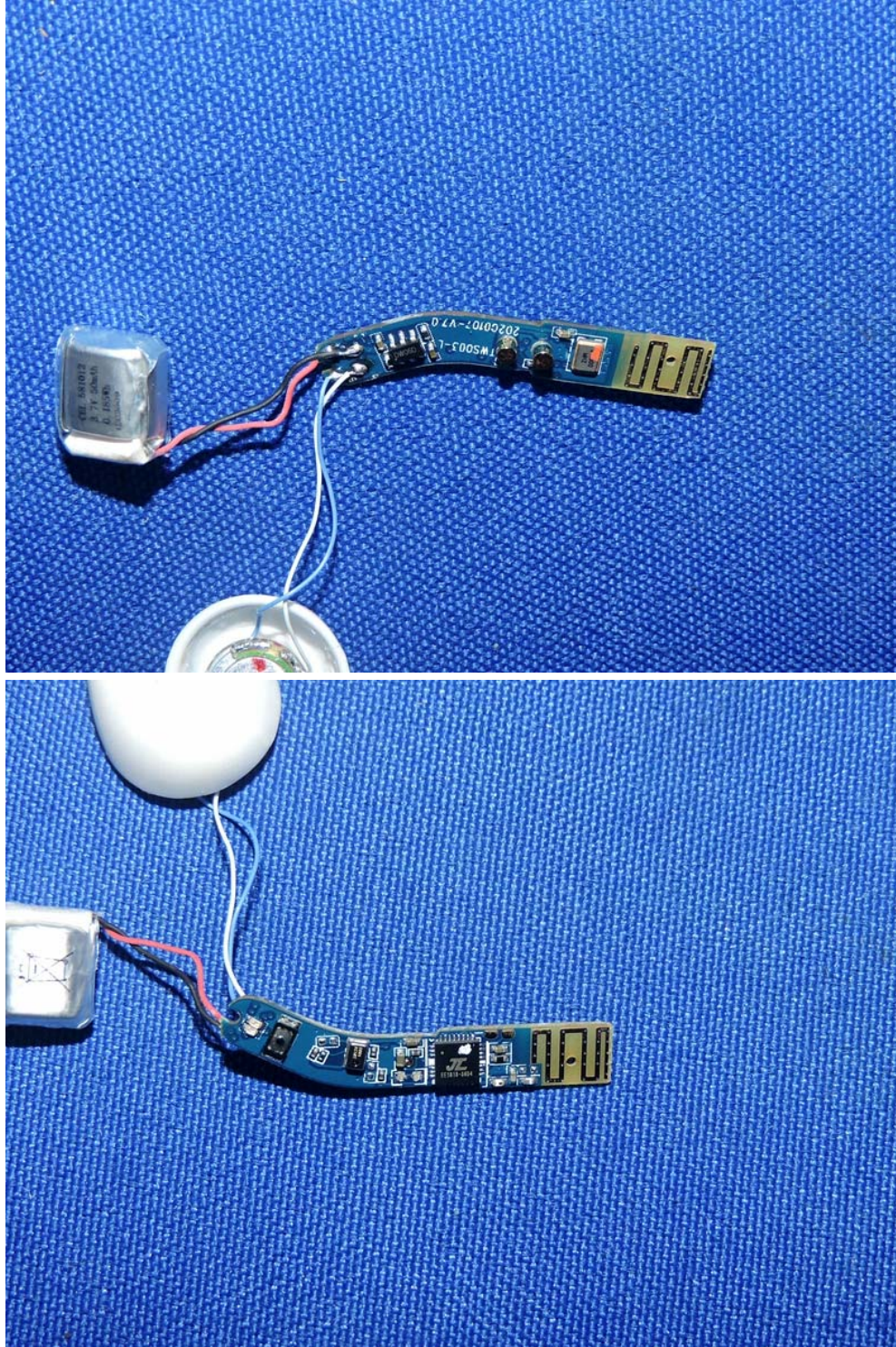
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Photographs – EUT



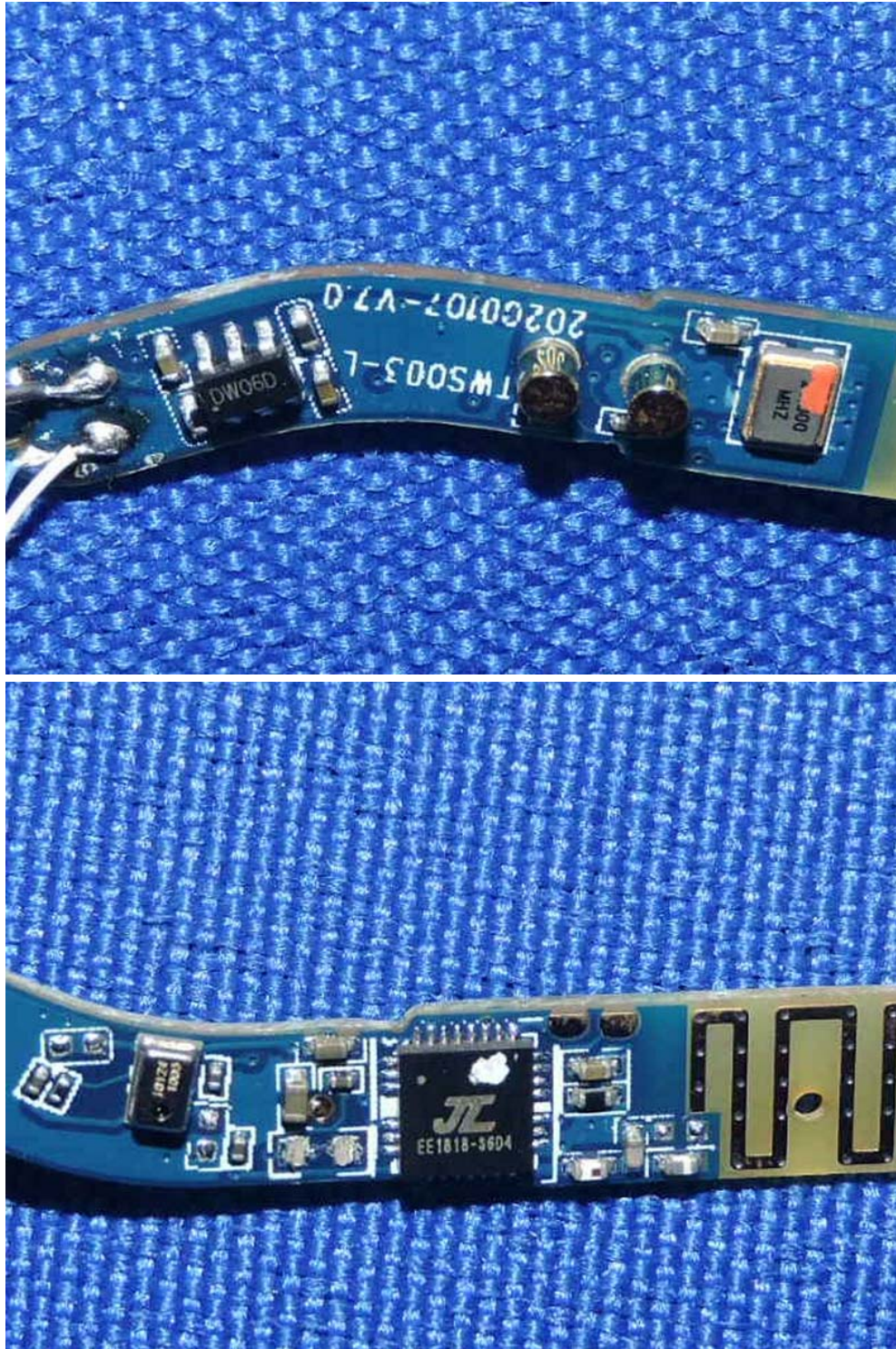
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End of Report

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