

FCC Radio Test Report FCC ID: VO8-R9

This report concerns (check one): ■Original Grant □Class II Change

For

Bluetooth Headset

Model Name: R9

Brand Name: Bluedio

Report No.: ENC100825GZ38F1

Date of Issue: Sep.3, 2010

Prepared For

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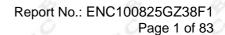




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1. CERTIFICATION

| Applicant: Guangzhou Liwei Electronics Co., LTD. | | | |
|--|--|--|--|
| Address: | No.33, Zhenzhongbei Road, Shenshan Industrial Park Baiyun District, Guangzhou 510460 P.R., china | | |
| Product Description: | Bluetooth Headset | | |
| Brand Name: Bluedio | | | |
| Model Number: | R9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |
| FCC ID: | VO8-R9 | | |
| Report Number: ENC100825GZ38F1 | | | |
| Date of Test: | Aug.25, 2010~Aug.31, 2010 | | |
| Standards: FCC Part15, Subpart C(15.247)/ANSI C63.4: 2003 | | | |

WE HEREBY CERTIFY THAT:

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The above equipment was tested by East Notice Certification Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By_

Authorized By

Ray Zhou Aug.31, 2010



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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247), Subpart C | | | | |
|--------------------------------------|-------------------------------------|----------|-------------|--|
| Standard Section | Test Item | Judgment | Remark | |
| 15.207 | Conducted Emission | PASS | 0.5 | |
| 15.247(c) | Antenna conducted Spurious Emission | PASS | Ó | |
| 15.247(a)(1) | Hopping Channel Separation | PASS | 204 | |
| 15.247 (b)(1) | Peak Output Power | PASS | 45 | |
| 15.247 (c) | Radiated Spurious Emission | PASS | | |
| 15.247 (a)(1)(iii) | Number of Hopping Frequency | PASS | 500 | |
| 15.247(a)(1)(iii) | Dwell Time | PASS | 9 | |
| 15.205 | Restricted Bands | PASS | 00 | |
| 15.203 | Antenna Requirement | PASS | A. The same | |
| 1.1307 1.1310 2.1091 2.1093 | RF Exposure Compliance | PASS | 04 | |

NOTE:

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





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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is DG-C03/CB03 at the location of CGEL.

Cunnan street, Shayongnan, Sanyuanli District, Guangzhou, Guangdong, China, 510400.

FCC register No.: 597719

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95} \%_{\circ}$

A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|--------|-----------------------------|---------|------|
| DG-C03 | CISPR | 150 KHz ~ 30MHz | 1.94 | 4 |

B. Radiated Measurement:

| Test Site Method Measurement Frequency Ra | | Measurement Frequency Range | Ant. H / V | U, (dB) | NOTE | |
|---|-------|-----------------------------|------------|---------|------|--|
| CB03 | CISPR | 30MHz ~ 200MHz | 04V | 3.82 | 04 | |
| 4 | 4 | 30MHz ~ 200MHz | нФ | 3.60 | | |
| A TO | - A | 200MHz ~ 1,000MHz | V | 3.86 | 4.45 | |
| E THE | , 4 | 200MHz ~ 1,000MHz | H | 3.94 | 0.40 | |





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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| Equipment | Bluetooth Headset | \$\tag{\psi} \tag{\psi} | | | | |
|------------------------|--|---|--|--|--|--|
| Brand Name | Bluedio | Bluedio | | | | |
| Model Name | R9 | 学 成节 成节 | | | | |
| OEM Brand/Model Name | N/A | 0 0 | | | | |
| Model Difference | N/A 4 0 4 | ,045,045,04 | | | | |
| DT DT | The EUT is a Bluetooth H | leadset | | | | |
| | Operation Frequency: | 2402~2480 MHz | | | | |
| | Modulation Type: | GFSK(1Mbps) π/4-DQPSK(2Mbps) | | | | |
| | Bit Rate of Transmitter | 8-DPSK(3Mbps) | | | | |
| | Number Of Channel | 79 CH | | | | |
| Product Description | Antenna Designation: | Please see Note 3. | | | | |
| | Antenna Gain(Peak) | Please see Note 3. | | | | |
| | Output Power: | 3.12 dBm (1Mbps) 2.80 dBm (3Mbps) | | | | |
| | Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. | | | | | |
| Channel List | Please refer to the Note 2 | 4 0 0 0 0 0 0 0 0 0 0 0 | | | | |
| Power Source | DC Voltage supplied from | AC/DC adapter & Li-ion battery | | | | |
| Power Rating | #AC/DC Adapter : Model name:LW001 I/P AC 100-240V~ 50/60Hz, 0.2A O/P 5.0~5.5V, 130mA # Li-ion battery 3.7Vdc | | | | | |
| Connecting I/O Port(s) | Please refer to the User's Manual | | | | | |
| Products Covered | N/A | 204 204 204 | | | | |

Note:

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1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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| Channel List | | | | | | |
|--------------|----------------|---------|----------------|---------|---|--|
| Channel | Frequency(MHz) | Channel | Frequency(MHz) | Channel | Frequency(MHz) | |
| 0 | 2402 | 27 | 2429 | 54 | 2456 | |
| 45°1 | 2403 | 28 | 2430 | 55 | 2457 | |
| 2 | 2404 | 29 | 2431 | 56 | 2458 | |
| 3 | 2405 | 30 | 2432 | 57 | 2459 | |
| 4 | 2406 | 31 | 2433 | 58 | 2460 | |
| 5 | 2407 | 32 | 2434 | 59 | 2461 | |
| 6 | 2408 | 33 | 2435 | 60 | 2462 | |
| 7 | 2409 | 34 | 2436 | 61 | 2463 | |
| 8 | 2410 | 35 | 2437 | 62 | 2464 | |
| 9 | 2411 | 36 | 2438 | 63 | 2465 | |
| 10 | 2412 | 37 | 2439 | 64 | 2466 | |
| 11 | 2413 | 38 | 2440 | 65 | 2467 | |
| 12 | 2414 | 39 | 2441 | 66 | 2468 | |
| 13 | 2415 | 40 | 2442 | 67 | 2469 | |
| 14 | 2416 | 41 | 2443 | 68 | 2470 | |
| 15 | 2417 | 42 | 2444 | 69 | 2471 | |
| 16 | 2418 | 43 | 2445 | 70 | 2472 | |
| 17 | 2419 | 44 | 2446 | 71 | 2473 | |
| 18 | 2420 | 45 | 2447 | 72 | 2474 | |
| 19 | 2421 | 46 | 2448 | 73 | 2475 | |
| 20 | 2422 | 47 | 2449 | 74 | 2476 | |
| 21 | 2423 | 48 | 2450 | 75 | 2477 | |
| 22 | 2424 | 49 | 2451 | 76 | 2478 | |
| 23 | 2425 | 50 | 2452 | 77 | 2479 | |
| 24 | 2426 | 51 | 2453 | 78 | 2480 | |
| 25 | 2427 | 52 | 2454 | | 040 040 | |
| 26 | 2428 | 53 | 2455 | | Marin | |

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|------|-------|------------|--------------|-----------|------------|------------|
| - 4 | - 4 | y - 47 | PRINTED ANT | N/A | 1.80 | BT Antenna |





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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-----------------------------|
| Mode 1 | CH00 (1Mbps/3Mbps) EUT only |
| Mode 2 | CH39 (1Mbps/3Mbps) EUT only |
| Mode 3 | CH78 (1Mbps/3Mbps) EUT only |
| Mode 4 | Charger Mode |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

| For Conducted Emission | | |
|------------------------|-------------|--|
| Final Test Mode | Description | |
| Mode 4 Charger Mode | | |

| For Radiated Emission | | | | |
|-----------------------------|-----------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | CH00 (1Mbps/3Mbps) EUT only | | | |
| Mode 2 | CH39 (1Mbps/3Mbps) EUT only | | | |
| Mode 3 | CH78 (1Mbps/3Mbps) EUT only | | | |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

| Test software Version | Test program: Bluetest.exe | | | | |
|------------------------------|----------------------------|----------|----------|--|--|
| Frequency | 2402 MHz | 2441 MHz | 2480 MHz | | |
| Parameters-1Mbps | 0 3 0 | 03 | 3 | | |
| Parameters-3Mbps | 3 | 3 | 3 | | |

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3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

| | E-1 EUT | | |
|--|------------|--|--|
| | EUT | | |
| | | | |
| | | | |
| | | | |

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3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

| 1 1663 | 1.160 1.160 | 2 6.3 6.6 | 2 6.2 6.62 | L 1 600 L | 3.662 8 | 1 1663 |
|---------|-------------------|-----------|----------------|-----------|------------|--------|
| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
| E-1 | Bluetooth Headset | Bluedio | 0 R9 | VO8-R9 | N/A | EUT |
| 145 | ,045,04 | 5 ,04 | 7,045 | ,045 | J45 1 | 245 |
| 4 | J 47 | 47 | 4 4 | 47 | 47 | |
| and the | 30 | C Line | -i° | O | and C | A. |
| 149 | 204 204 | 204 | 200 | 500 E | 1 4 E | 14 |

| Item | Shielded Type | Ferrite Core | Length Note | Note |
|------|---------------|--------------|-------------|----------------|
| 14) | 304 309 | 200 | 200 | 204, 204, 204, |
| 4 | 7 4 | 47 | \$ \$ | 4 4 |
| 105 | 00000 | F CAF | CAS | cost cost cost |
| 7 | 7 07 | A. T. | A.T. A. | |
| _ (| 5 6 | , o | 6 ,6 | ,0 ,0 |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.





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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (| (dBuV) | Class B | (dBuV) | Standard |
|------------------|------------|---------|------------|-----------|----------|
| FREQUENCY (WITZ) | Quasi-peak | Average | Quasi-peak | Average | Stanuaru |
| 0.15-0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50-5.0 | 73.00 | 60.00 | 56.00 | 46.00 | CISPR |
| 5.0-30.0 | 73.00 | 60.00 | 60.00 | 50.00 | CISPR |

| 0.15-0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
|----------|-------|-------|-----------|-----------|-----|
| 0.50-5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC |
| 5.0-30.0 | 73.00 | 60.00 | 60.00 | 50.00 | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|-----------|------------|------------------|
| 1 | LISN | EMCO | 3816/2 | 00052765 | 05/28/2011 |
| 2 | LISN | Rolf Heine | NNB-2-16Z | 99044 | 05/28/2011 |
| 3 | 50Ω Terminator | SHX | TF2-3G-A | 08122901 | 05/28/2011 |
| 4 | Transient Limiter | Agilent | 11947A | 3107A03668 | 05/28/2011 |
| 5 | Test Cable | ♦ N/A | C-06_C03 | N/A | 05/28/2011 |
| 6 | Emi Test Receiver | R&S | ESCS30 | 8333641017 | 05/28/2011 |

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

Receiver Parameters Setting

| Receiver Parameters | Setting | | |
|---------------------|----------|--|--|
| Attenuation | 10 dB | | |
| Start Frequency | 0.15 MHz | | |
| Stop Frequency | 30 MHz | | |
| IF Bandwidth | 9 kHz | | |

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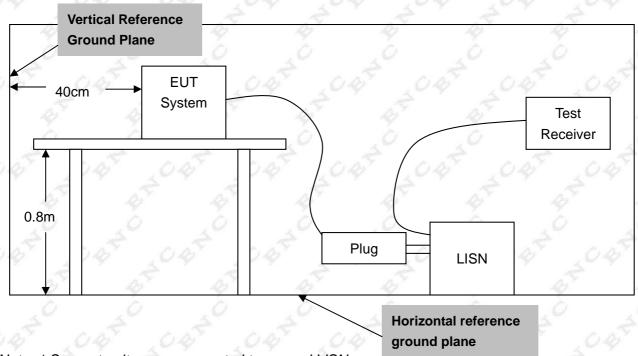
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2 .Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes Vertical Reference Ground Plane





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4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





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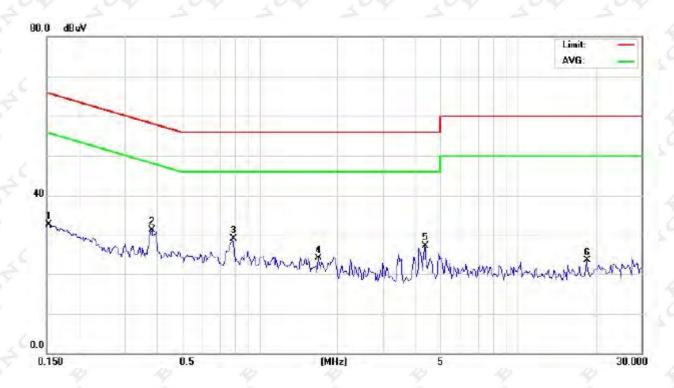
4.1.7 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | AC 120V/60Hz |
| Test Mode: | Charger Mode | 000 000 | 000 000 |

| Freq. | Terminal | Measured | d(dBuV) | Limits(| dBuV) | Margin | Note |
|-------|----------|----------|---------|---------|---------|--------|------|
| (MHz) | L/N | QP-Mode | AV-Mode | QP-Mode | AV-Mode | (dB) | Note |
| 0.15 | Line | 32.70 | * | 65.87 | 55.87 | -33.17 | (QP) |
| 0.38 | Line | 31.39 | ,04 | 58.24 | 48.24 | -26.85 | (QP) |
| 0.79 | Line | 29.19 | * * | 56.00 | 46.00 | -26.81 | (QP) |
| 1.69 | Line | 24.13 | * | 56.00 | 46.00 | -31.87 | (QP) |
| 4.36 | Line | 27.26 | * | 56.00 | 46.00 | -28.74 | (QP) |
| 18.42 | Line | 23.42 | 04 | 60.00 | 50.00 | -36.58 | (QP) |

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。 In this case, a "*" marked in AVG Mode column of Interference Voltage Measured。
- (2) Measuring frequency range from 150KHz to 30MHz.



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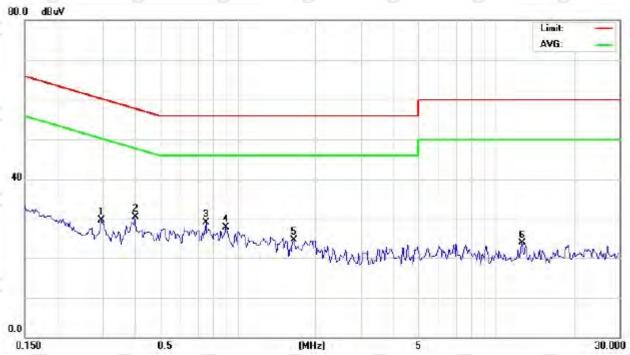
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| EUT: O. | Bluetooth Headset | Model Name: | R9 00 00 |
|--------------|-------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | AC 120V/60Hz |
| Test Mode: | Charger Mode | 2 20 1 | .0 .0 |

| Freq. | Terminal | Measured | l(dBuV) | Limits(dBuV) | | Margin | Note |
|-------|----------|----------|---------|--------------|---------|--------|------|
| (MHz) | L/N | QP-Mode | AV-Mode | QP-Mode | AV-Mode | (dB) | Note |
| 0.30 | Neutral | 29.74 | * | 60.33 | 50.33 | -30.59 | (QP) |
| 0.40 | Neutral | 30.50 | * | 57.85 | 47.85 | -27.35 | (QP) |
| 0.75 | Neutral | 29.03 | 04 | 56.00 | 46.00 | -26.97 | (QP) |
| 0.90 | Neutral | 28.00 | * * | 56.00 | 46.00 | -28.00 | (QP) |
| 1.65 | Neutral | 24.64 | * | 56.00 | 46.00 | -31.36 | (QP) |
| 12.55 | Neutral | 23.88 | * | 60.00 | 50.00 | -36.12 | (QP) |

Remark:

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz, VBW=10KHz, Swp. Time =0.2 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.







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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed. Frequencies

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) | | |
|-------------------|-----------------------------------|-------------------------------|--|--|
| 0.009~0.490 | 2400/F(KHz) | 300 | | |
| 0.490~1.705 | 24000/F(KHz) | (30) | | |
| 1.705~30.0 | 30 | 30 | | |
| 30~88 | 100 | 3 4 | | |
| 88~216 | 150 | 3 | | |
| 216~960 | 200 | 204 234 204 | | |
| Above 960 | 500 | y 3 2 | | |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| Eroguanaiaa (MHz) | Class A (dBu | ıV/m) (at 3M) | Class B (dBuV/m) (at 3M) | | |
|-------------------|--------------|---------------|--------------------------|---------|--|
| Frequencies (MHz) | PEAK | AVERAGE | PEAK | AVERAGE | |
| Above 1000 | 80 | 60 | 74 | 54 | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement | Dange (MHz) | | | |
|---|---|--|--|--|
| used in the device or on which the | Range (MHz) | | | |
| device operates or tunes (MHz) | | | | |
| Below 1.705 | 30 | | | |
| 1.705 – 108 | 1000 | | | |
| 108 – 500 | 2000 | | | |
| 500 – 1000 | O 5000 O | | | |
| Above 1000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower | | | |

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4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|---------------|------------|------------------|
| 1 | Antenna | ETS | 3115 | 00075789 | 05/28/2011 |
| 2 | Amplifier | Agilent | 8449B 3 | 008A02274 | 05/28/2011 |
| 3 | Spectrum | Agilent | E4408B | US39240143 | 05/28/2011 |
| 4 | Test Cable | HUBER+SUHNER | GZ02 High Fre | N/A | 05/28/2011 |
| 5 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | 05/28/2011 |
| 6 | Amplifier | AP AP | 8447D | 2944A09673 | 05/28/2011 |
| 7 | Test Receiver | R&S | ESCI | 100895 | 05/28/2011 |
| 8 | Test Cable | N/A | C-01_GZ02 | N/A | 05/28/2011 |
| 9 | Controller | CT | SC100 | N/A | N/A |

Remark: "N/A" denotes No Model Name / Serial No. and No Calibration specified.

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

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

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4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

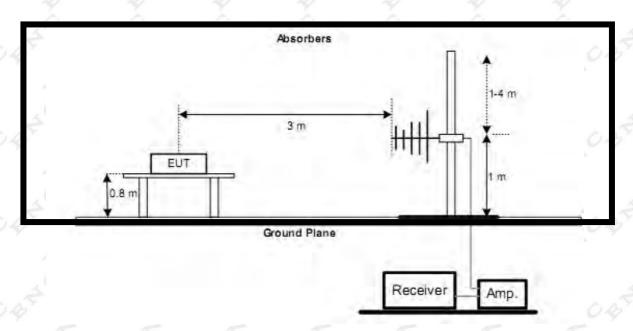




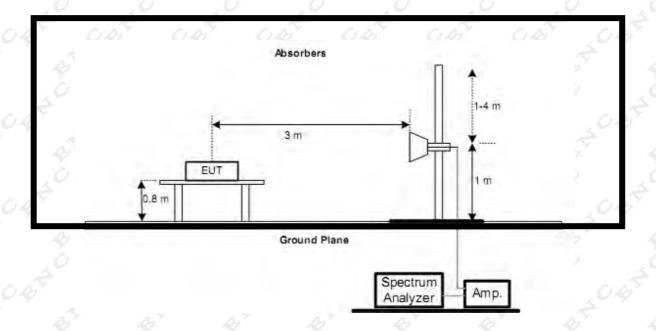
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4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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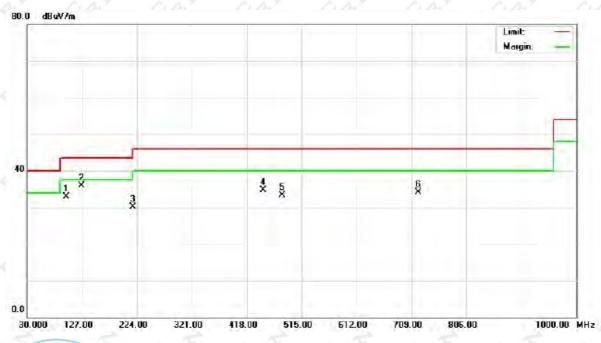
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4.2.7 TEST RESULTS (BETWEEN30 - 1000 MHZ)

| | 7 | A 7 | A Y | y y | | . 7 | A 7 | |
|----------------|-------------------|-----------------------|-------------------------|--------------------------|-----|-----------------|----------------|------|
| EUT: | Bluetooth Headset | | Model Name: | | R9 | 47 | | |
| Tempera | ture: | 23 ℃ | 30 30 | Relative Humidity: | | 65 % | | - 5 |
| Pressure | : 04 | 1012hPa | 00 | Test Voltage: | 145 | DC 3.7 | 7V | 00 |
| Test Mod | le: | TX 2402MHz | -CH00-1Mbps | | 7 | 17 | 7 | , |
| Freq. (MHz) | Ant. H/V | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | | ts(QP) uV/m) | Margin (dB) | Note |
| 98.00 | V | 51.06 | -18.12 | 32.94 | 4: | 3.50 | -10.56 | 04 |
| 125.22 | V | 50.73 | -14.85 | 35.88 | 4: | 3.50 | -7.62 | |
| 216.94 | V | 44.09 | -13.90 | 30.19 | 40 | 6.00 | -15.81 | |
| 446.28 | V | 43.59 | -8.88 | 34.71 | 40 | 6.00 | -11.29 | کنی |
| 480.10 | V | 41.25 | -8.00 | 33.25 | 4 | 6.00 | -12.75 | 04 |
| 720.62 | V | 39.01 | -4.92 | 34.09 | 40 | 6.00 | -11.91 | |

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = $0.3 \text{ sec./MHz}_{\odot}$
- (2) All readings are Peak unless otherwise stated QP in column of <code>[Note]</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



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-7.01

46.00

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| EUT: | | Bluetooth Hea | adset // // | Model Name: | | R9 | | |
|----------------|-------------|-----------------------|-------------------------|--------------------------|-------|------------------|----------------|-----------|
| Tempera | ture: | 23 ℃ | A T | Relative Humid | ity: | 65 % | . 7 | |
| Pressure | : | 1012hPa | 49 49 | Test Voltage: | | DC 3.7 | 7V | 4 |
| Test Mod | le: | TX 2402MHz | -CH00-1Mbps | 4 | _5 | 0 | 4 | <u>``</u> |
| Freq. (MHz) | Ant. H/V | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | - | its(QP) uV/m) | Margin (dB) | Note |
| 79.18 | Н | 48.86 | -18.67 | 30.19 | 40 | 0.00 | -9.81 | |
| 216.94 | Н | 46.07 | -13.90 | 32.17 | 4 | 6.00 | -13.83 | · Zing |
| 380.71 | , 6/4 | 41.37 | -9.95 | 31.42 | 4 | 6.00 | -14.58 | 04 |
| 481.69 | Ϋ́H | 43.89 | -7.95 | 35.94 | 46.00 | | -10.06 | |
| 664.58 | Н | 35.70 | -5.23 | 30.47 | 40 | 6.00 | -15.53 | |

Remark

720.98

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = $0.3 \text{ sec./MHz}_{\odot}$

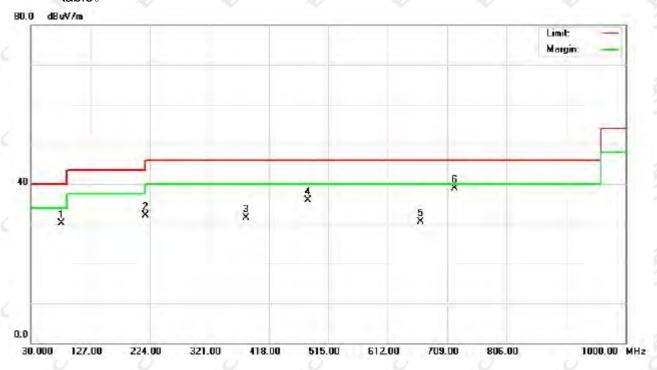
38.99

- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.

-4.93

43.92

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.





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4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|--------------------------|--------------------|-----------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | TX 2402MHz - CH 00-1Mbps | 1103 1103 | CIDY CIDY |

| Eroa | Ant.Pol. | Rea | ding | Ant./CF | Act. | Limit | 15 | 137 | / |
|----------------|----------|----------------|--------------|---------|------------------|----------------|------------------|----------------|------|
| Freq. (MHz) | H/V | Peak (dBuV) | AV (dBuV) | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2390.00 | V | 18.55 | 7.35 | 31.91 | 50.46 | 39.26 | 74.00 | 54.00 | X/E |
| 2402.15 | V | 57.04 | 21.72 | 31.90 | 88.94 | 53.62 | 15 | 1.3 | X/F |
| 4804.13 | V | 46.94 | 36.66 | 5.21 | 52.15 | 41.87 | 74.00 | 54.00 | X/H |

Remark:

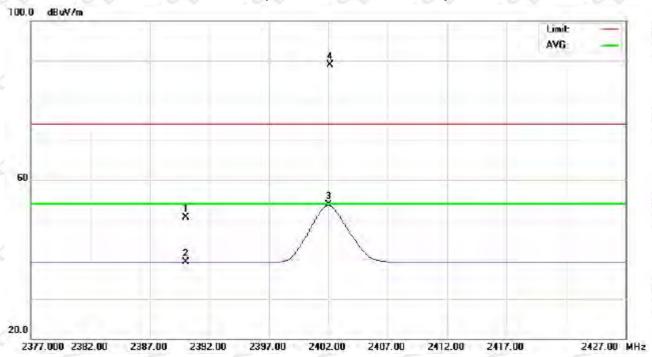
- (1) All readings are Peak unless otherwise stated QP in column of \[\text{Note} \] . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within





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TX CH00(Above 1000 MHz, Vertical)









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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|--------------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode | TX 2402MHz – CH 00-1Mbps | ,0 | ,0 ,0 , |

| Freq. | Ant.Pol. | Reading | | Ant./CF | Act. Limit | | ,04 | ,04",0 | | |
|-----------|----------|---------|--------|---------|------------|----------|----------|----------|------|--|
| (MHz) | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note | |
| (1011 12) | 11/ V | (dBuV) | (dBuV) | Ci (ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 7 | |
| 2390.00 | Т Н 🦼 | 19.81 | 7.30 | 31.91 | 51.72 | 39.21 | 74.00 | 54.00 | X/E | |
| 2405.15 | , (H.4) | 60.38 | 24.01 | 31.90 | 92.28 | 55.91 | ,04 | ,0 | X/F | |
| 4804.13 | T H | 43.81 | 32.04 | 5.21 | 49.02 | 37.25 | 74.00 | 54.00 | X/H | |

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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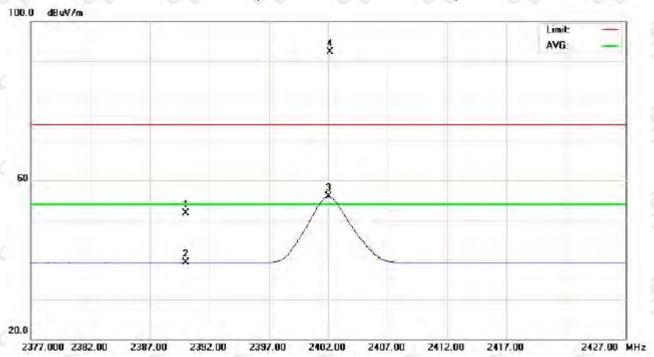


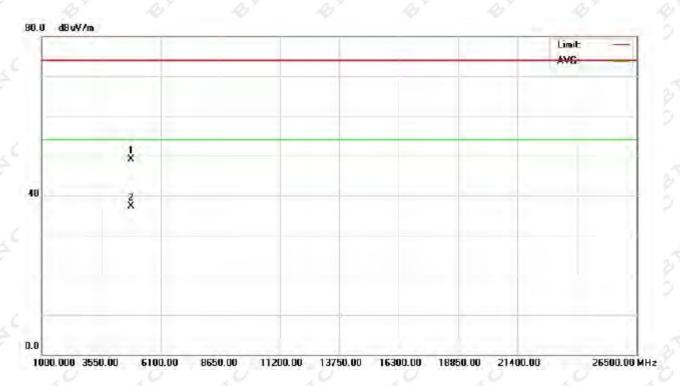
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TX CH00(Above 1000 MHz, Horizontal)





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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | TX 2441MHz -CH39-1Mbps | , O | 10 10 |

| Freq. Ant.Pol (MHz) H/V | Ant Dol | Ant Pol Reading | | ing Ant /CF | | Limit() | ,04 | ,0 | 45° |
|----------------------------|---------|-----------------|--------------|-------------------|------------------|----------------|------------------|----------------|------|
| | | Peak (dBuV) | AV (dBuV) | Ant./CF CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2441.15 | V | 56.19 | 22.72 | 31.85 | 88.04 | 54.57 | X | 1 | X/F |
| 4882.13 | V | 48.19 | 36.24 | 5.50 | 53.69 | 41.74 | 74.00 | 54.00 | X/H |

Remark

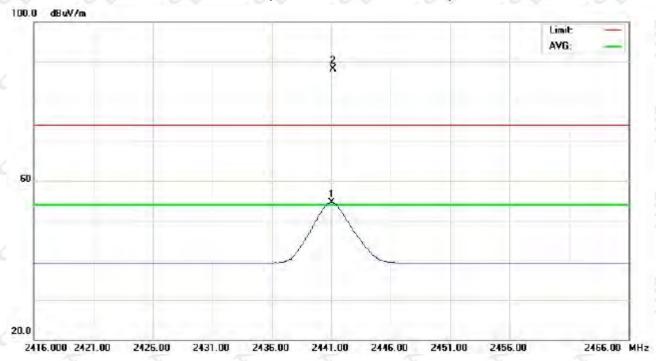
- (1) All readings are Peak unless otherwise stated QP in column of <code>[Note]</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

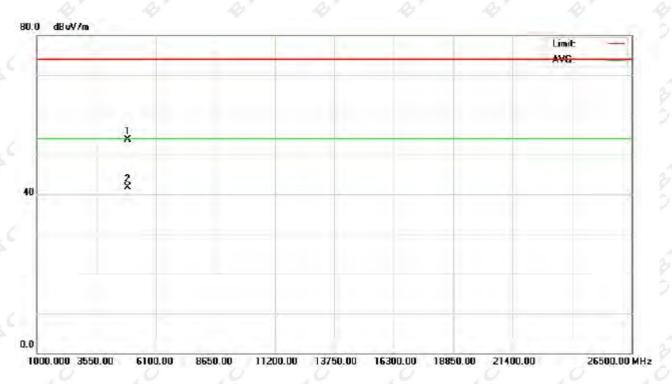




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TX CH39 (Above 1000 MHz, Vertical)





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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | TX 2441MHz -CH39-1Mbps | ,0 | , O , O , |

| Freq. | Ant.Pol. | Rea | ding | Ant./CF | Act. I | Limit() | ,04 | ,0 | 4 |
|---------|----------|----------------|--------------|---------|------------------|----------------|------------------|----------------|------|
| (MHz) | H/V | Peak (dBuV) | AV (dBuV) | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2441.05 | Н | 58.99 | 23.67 | 31.85 | 90.84 | 55.52 | | - A | X/F |
| 4882.13 | , OH 47 | 43.75 | 32.41 | 5.50 | 49.25 | 37.91 | 74.00 | 54.00 | X/H |

Remark

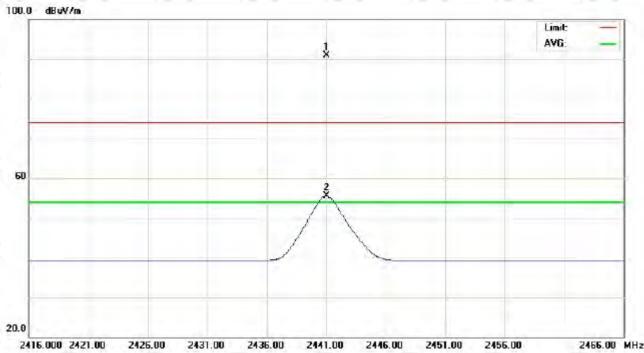
- (1) All readings are Peak unless otherwise stated QP in column of <code>Note</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

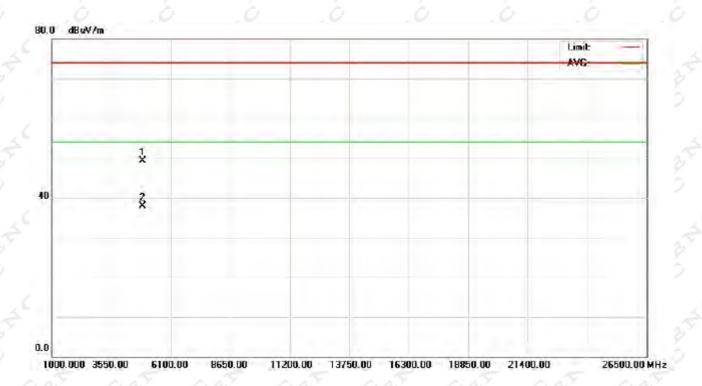




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TX CH39 (Above 1000 MHz, Horizontal)









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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|------------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | TX 2480MHz -CH78-1Mbps | ,0 | , O , O , |

| Freq. | Ant.Pol. | Reading | | Ant./CF | Act. Limit | | ,04 | ,0 | 4, |
|-----------|----------|---------|--------|---------|------------|----------|----------|----------|------|
| (MHz) | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note |
| (IVII IZ) | Π/ V | (dBuV) | (dBuV) | CF(ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 3 |
| 2479.90 | V | 55.20 | 22.28 | 31.80 | 87.00 | 54.08 | 2 | 1 | X/F |
| 2483.50 | V | 20.77 | 9.21 | 31.80 | 52.57 | 41.01 | 74.00 | 54.00 | X/E |
| 4960.13 | V | 48.86 | 37.93 | 5.78 | 54.64 | 43.71 | 74.00 | 54.00 | X/H |

Remark:

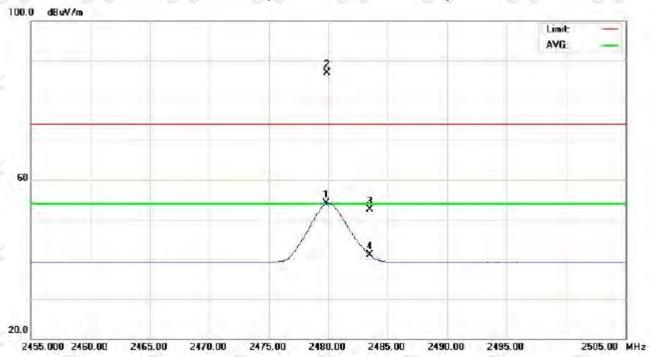
- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





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TX CH78 (Above 1000 MHz, Vertical)









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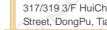
| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 0 |
|--------------|------------------------|--------------------|----------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode | TX 2480MHz –CH78-1Mbps | , , , , | ,0 ,0 , |

| Freq. | Ant.Pol. | Reading | | Ant./CF | Act. Limit | | ,04 | ,0 | 4 |
|-----------|----------|---------|--------|---------|------------|----------|----------|----------|------|
| (MHz) | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note |
| (IVII 12) | Π/ V | (dBuV) | (dBuV) | CF(ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 3 |
| 2479.85 | Н | 61.66 | 23.13 | 31.80 | 93.46 | 54.93 | X | Lis V | X/F |
| 2483.50 | (H4) | 20.15 | 9.78 | 31.80 | 51.95 | 41.58 | 74.00 | 54.00 | X/E |
| 4960.13 | H | 45.19 | 33.94 | 5.78 | 50.97 | 39.72 | 74.00 | 54.00 | X/H |

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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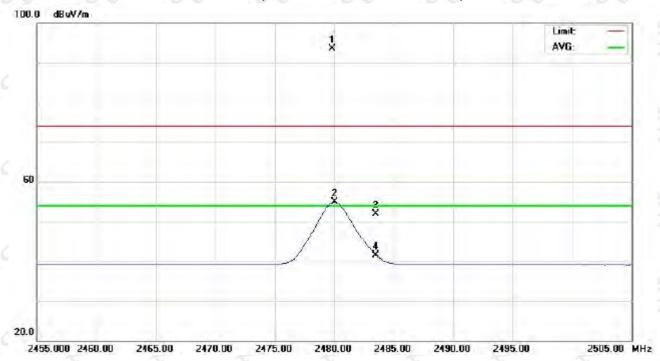


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TX CH78 (Above 1000 MHz, Horizontal)





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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|--------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | TX 2402MHz – CH 00-3Mbps | ,0 | ,0 ,0 , |

| Freq. | Ant.Pol. | Reading | | Ant./CF | Act. I | Act. Limit | | ,04",0 | | |
|-----------|----------|---------|--------|---------|----------|------------|----------|----------|------|--|
| (MHz) | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note | |
| (IVII 12) | Π/ V | (dBuV) | (dBuV) | CF(ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 7 | |
| 2390.00 | V | 18.91 | 7.38 | 31.91 | 50.82 | 39.29 | 74.00 | 54.00 | X/E | |
| 2401.90 | V | 53.03 | 21.49 | 31.90 | 84.93 | 53.39 | ,04 | ,0 | X/F | |
| 4804.13 | V | 46.23 | 34.56 | 5.21 | 51.44 | 39.77 | 74.00 | 54.00 | X/H | |

Remark

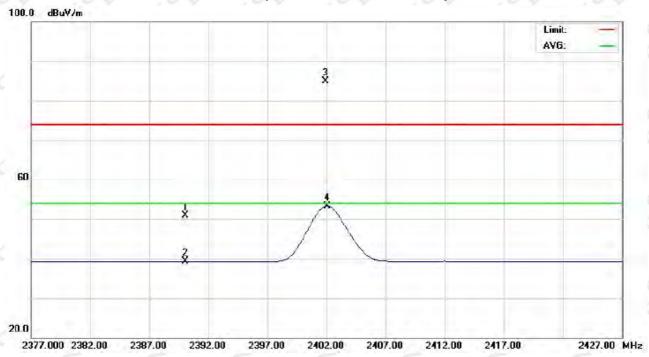
- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

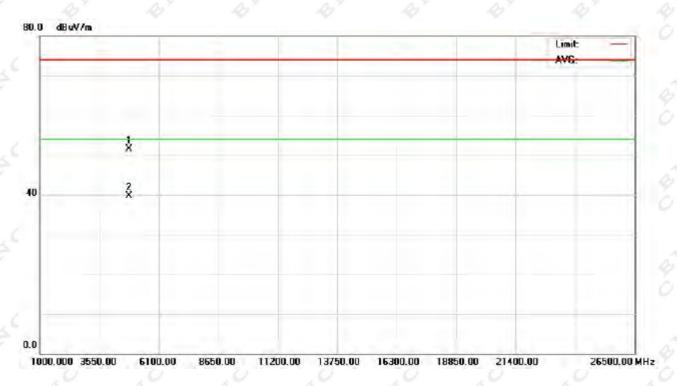




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TX CH00(Above 1000 MHz, Vertical)





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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|--------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | TX 2402MHz – CH 00-3Mbps | 20 | ,0 |

| Freq. | Ant Dol | Ant.Pol. Reading | | Ant./CF | Act. Limit | | ,04",0 | | 4, " |
|-----------|---------|------------------|--------|---------|------------|----------|----------|----------|------|
| | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note |
| (IVII 12) | Π/ V | (dBuV) | (dBuV) | CF(ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 3 |
| 2390.00 | Н | 18.96 | 7.36 | 31.91 | 50.87 | 39.27 | 74.00 | 54.00 | X/E |
| 2402.15 | , (H.4) | 60.49 | 23.90 | 31.90 | 92.39 | 55.80 | ,04 | ,0 | X/F |
| 4804.13 | H | 44.37 | 32.60 | 5.21 | 49.58 | 37.81 | 74.00 | 54.00 | X/H |

Remark

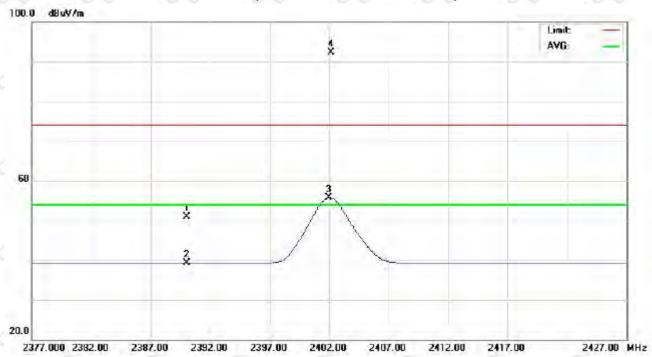
- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





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TX CH00(Above 1000 MHz, Horizontal)





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| EUT: O. | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|--------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | TX 2402MHz – CH 00-3Mbps | 20 | ,0 |

| Freq. | Ant.Pol. | Rea | ding | Ant./CF | Act. I | Limit() | ,04 | ,0 | 4 |
|---------|----------|----------------|--------------|---------|------------------|----------------|------------------|----------------|------|
| (MHz) | H/V | Peak (dBuV) | AV (dBuV) | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2441.15 | V | 56.19 | 22.72 | 31.85 | 88.04 | 54.57 | (dDd v/iii) | (abav/iii) | X/F |
| 4842.24 | V | 46.05 | 35.89 | 5.35 | 51.40 | 41.24 | 74.00 | 54.00 | X/H |

Remark

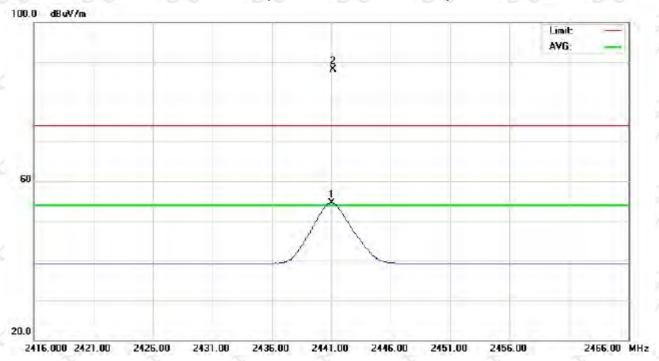
- (1) All readings are Peak unless otherwise stated QP in column of <code>Note</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

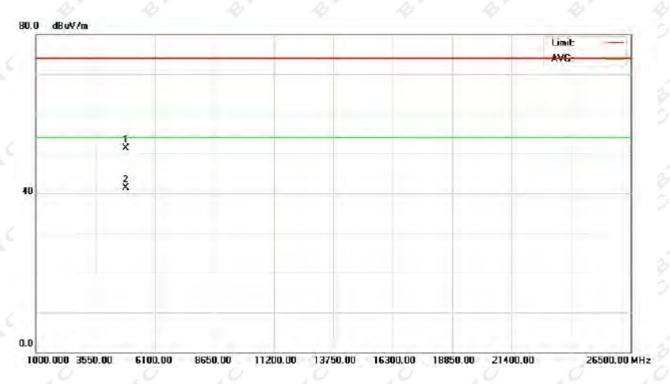




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TX CH39 (Above 1000 MHz, Vertical)









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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|------------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | TX 2441MHz -CH39-3Mbps | ,0 | ,0 ,0 , |

| Freq. | Ant.Pol. | Rea | ding | Ant./CF | Act. I | Limit() | ,04 | ,0 | 4 |
|---------|----------|----------------|--------------|---------|------------------|----------------|------------------|----------------|------|
| (MHz) | H/V | Peak (dBuV) | AV (dBuV) | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2441.05 | Н | 60.99 | 23.67 | 31.85 | 92.84 | 55.52 | | 1 | X/F |
| 4842.24 | , OH 47 | 44.23 | 31.93 | 5.35 | 49.58 | 37.28 | 74.00 | 54.00 | X/H |

Remark:

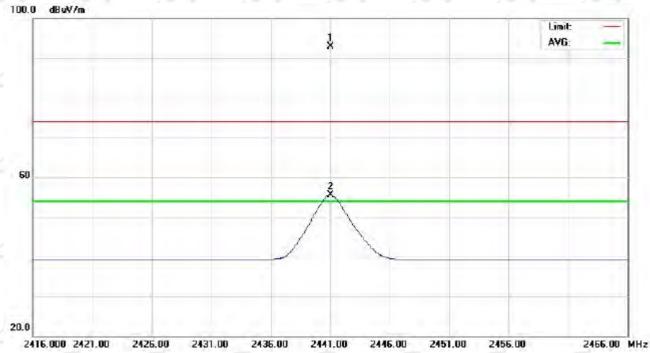
- (1) All readings are Peak unless otherwise stated QP in column of <code>Note</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





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TX CH39 (Above 1000 MHz, Horizontal)









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| EUT: | Bluetooth Headset | Model Name: | R9 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 |
|--------------|------------------------|--------------------|--|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode | TX 2480MHz -CH78-3Mbps | ,0 | ,0 ,0 , |

| Freq. | Ant Dol | Ant.Pol. Readi | | ading Ant./CF | | Act. Limit | | ,04",0 | |
|-----------|---------|----------------|--------|---------------|----------|------------|----------|----------|------|
| (MHz) | H/V | Peak | AV | CF(dB) | Peak | AV | Peak | AV | Note |
| (IVII 12) | Π/ V | (dBuV) | (dBuV) | CF(ub) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | 3 |
| 2479.90 | V | 54.62 | 21.98 | 31.80 | 86.42 | 53.78 | X | Lis V | X/F |
| 2483.50 | V | 19.57 | 8.94 | 31.80 | 51.37 | 40.74 | 74.00 | 54.00 | X/E |
| 4960.13 | V | 44.39 | 32.21 | 5.78 | 50.17 | 37.99 | 74.00 | 54.00 | X/H |

Remark:

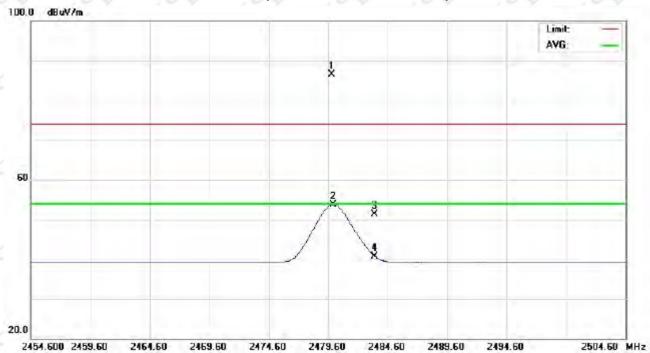
- (1) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





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TX CH78 (Above 1000 MHz, Vertical)





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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | TX 2480MHz -CH78-3Mbps | ,0 | 10 10 |

| Freq. (MHz) | Ant Dol | Ant Pol Reading | | Ant./CF | Act. Limit | | ,04",0 | | 4) × |
|----------------|-----------------|-----------------|--------------|---------|------------------|----------------|------------------|----------------|------|
| | Ant.Pol. H/V | Peak (dBuV) | AV (dBuV) | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Peak (dBuV/m) | AV (dBuV/m) | Note |
| 2479.90 | Н | 58.64 | 23.28 | 31.80 | 90.44 | 55.08 | | 5 | X/F |
| 2483.50 | , H47 | 20.16 | 10.01 | 31.80 | 51.96 | 41.81 | 74.00 | 54.00 | X/E |
| 4960.13 | T H | 42.94 | 30.70 | 5.78 | 48.72 | 36.48 | 74.00 | 54.00 | X/H |

Remark

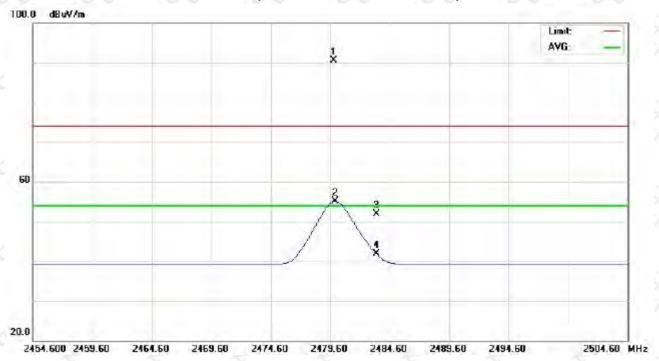
- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code> . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





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TX CH78 (Above 1000 MHz, Horizontal)





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5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C | | | | | | | |
|--|---------------------------|-------------|------|--|--|--|--|
| Section Test Item Frequency Range (MHz) Result | | | | | | | |
| 15.247 (a)(1)(iii) | Number of Hopping Channel | 2400-2483.5 | PASS | | | | |

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

| Á | Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|------|-------------------|--------------|----------|------------|------------------|
| | 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

| Spectrum Parameters | Setting | | |
|---------------------|-----------------------------|--|--|
| Attenuation | Auto | | |
| Span Frequency | > Operating Frequency Range | | |
| PB P | 100 kHz | | |
| VB | 100 kHz | | |
| Detector | Peak | | |
| Trace | Max Hold | | |
| Sweep Time | 74 204 Auto 4 204 204 | | |

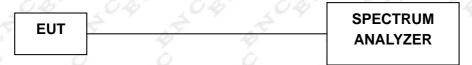
5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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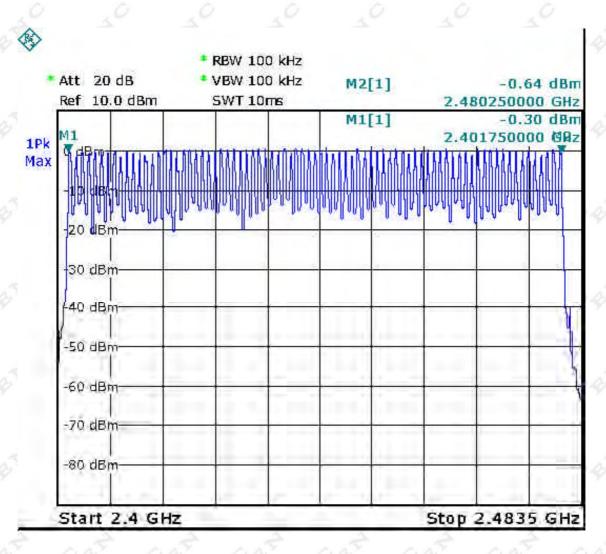
Tel:+86-020-2331 4234



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5.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|------------------------|--------------------|----------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1015hPa | Test Voltage: | DC 3.7V |
| Test Mode: | Hopping Mode -1Mbps | 704 704 | 700 YOU |
| Numl | per of Hopping Channel | 4 | 479 49 4 |

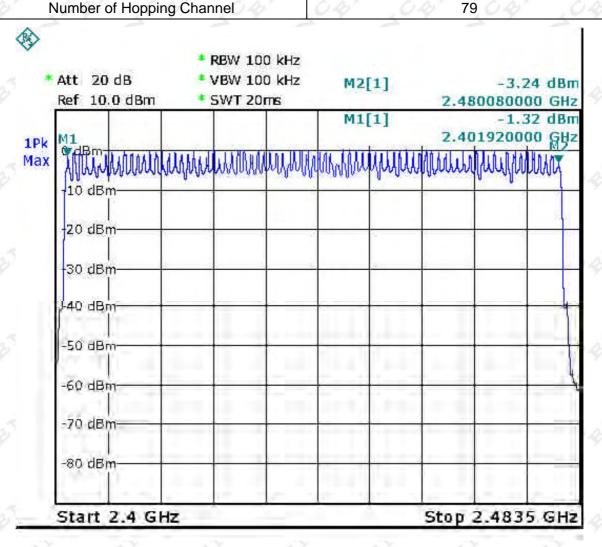






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| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|---------------------|--------------------|---------------------------------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1015hPa | Test Voltage: | DC 3.7V |
| Test Mode: | Hopping Mode -3Mbps | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |







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6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C | | | | | |
|--|---------------------------|--------|-------------|------|--|
| Section Test Item Limit Frequency Range (MHz) Result | | | | | |
| 15.247 (a)(1)(iii) | Average Time of Occupancy | 0.4sec | 2400-2483.5 | PASS | |

6.1.1 MEASUREMENT INSTRUMENTS LIST

| Á | Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|------|-------------------|--------------|----------|------------|------------------|
| | 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

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6.1.4 TEST SETUP

| EUT | | | 4 | SPECTRUM |
|-----|------|--------|-----|----------|
| | Tá . | 11 A T | 115 | ANALYZER |

6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.





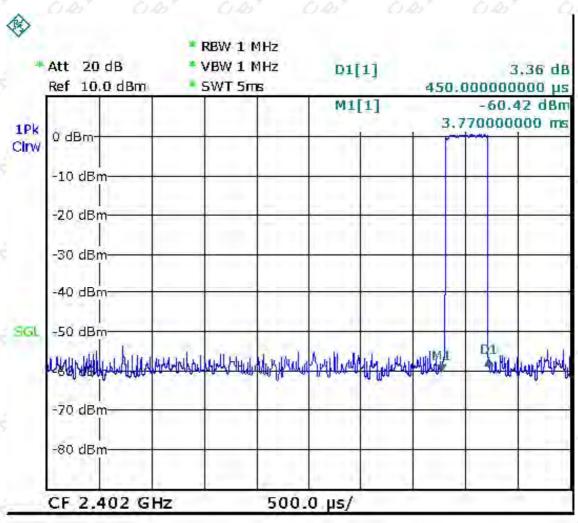
Page 51 of 83

6.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------------|--------------------|---------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00-DH1/DH3/DH5 -1Mbps | 104 104 | 704 704 |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-------------|-----------|---------------------|----------------|------------|
| DH5 | 2402MHz | 3.0700 | 0.3275 | 0.4000 |
| DH3 | 2402MHz | 1.7100 | 0.2736 | 0.4000 |
| DH1 | 2402MHz | 0.4500 | 0.1440 | 0.4000 |

CH00-DH1

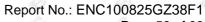


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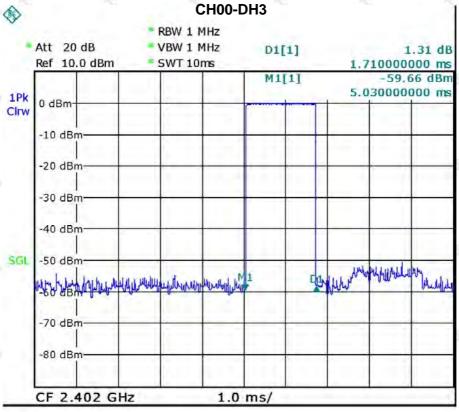
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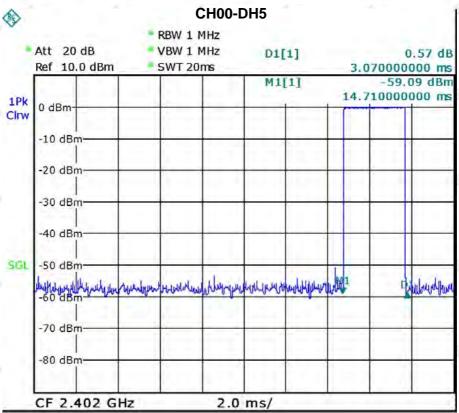
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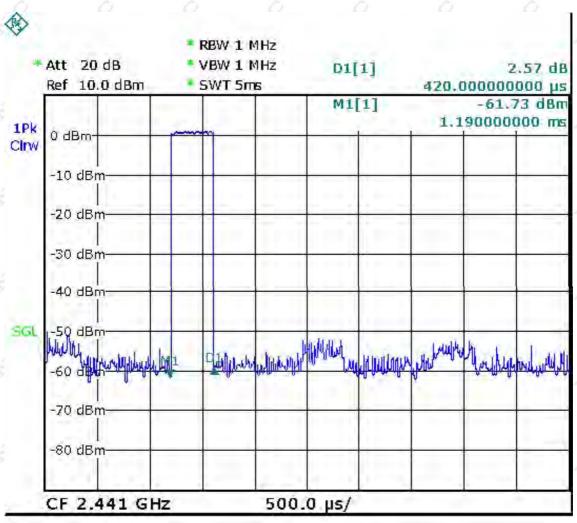


| ,0 | Page 53 of 83 |
|----|---------------|
| | |

| EUT: | Bluetooth Headset | Model Name: | R9 0 6 0 6 0 6 |
|--------------|--------------------------|--------------------|----------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH39 -DH1/DH3/DH5 -1Mbps | 10 | |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-------------|-----------|---------------------|----------------|------------|
| DH5 | 2441MHz | 2.9900 | 0.3189 | 0.4000 |
| DH3 | 2441MHz | 1.7500 | 0.2800 | 0.4000 |
| 04 DH1 04 | 2441MHz | 0.4200 | 0.1344 | 0.4000 |

CH39-DH1

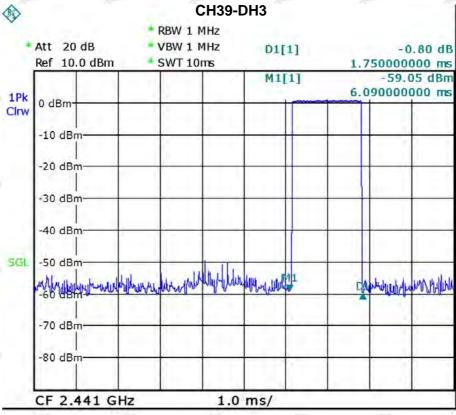


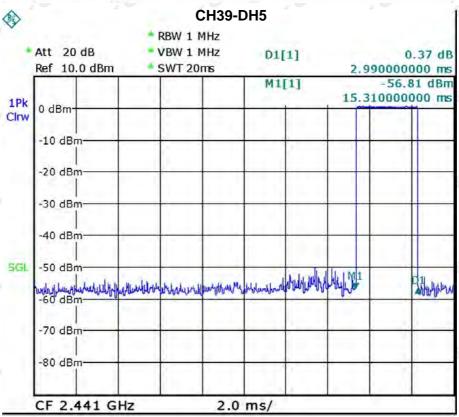






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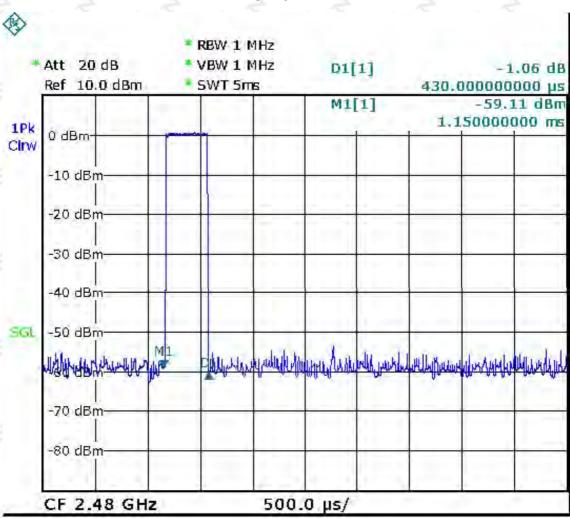


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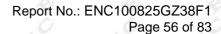
| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|--------------------------|--------------------|---------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH39 -DH1/DH3/DH5 -1Mbps | 000 000 | 000 000 |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-------------|-----------|---------------------|----------------|------------|
| DH5 | 2480MHz | 3.1100 | 0.3317 | 0.4000 |
| DH3 | 2480MHz | 1.7500 | 0.2800 | 0.4000 |
| DH1 | 2480MHz | 0.4300 | 0.1376 | 0.4000 |

CH78-DH1





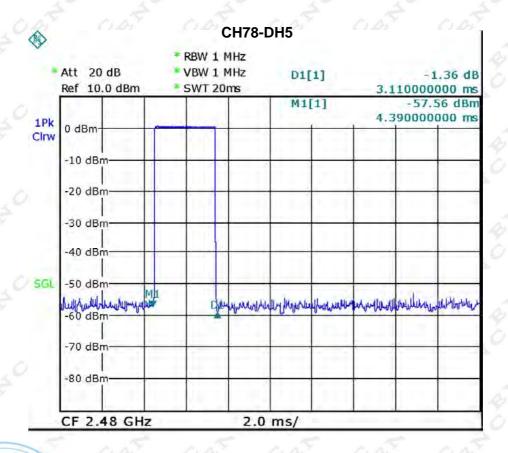




CF 2.48 GHz

CH78-DH3 RBW 1 MHz Att 20 dB VBW 1 MHz D1[1] 0.87 dB Ref 10.0 dBm SWT 10ms 1.750000000 ms -59.68 dBm M1[1] 6.110000000 ms 1Pk 0 dBm Clrw -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm - 600 aBh human howy how you ment happy but a party banks Chay Myluby Myluby Langton -70 dBm -80 dBm

1.0 ms/



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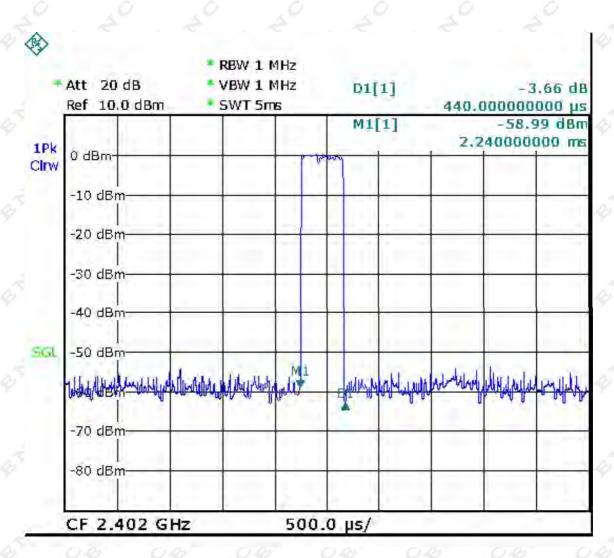


| | | Page 57 of 83 | |
|-----|----|---------------|--|
| 1.1 | R9 | ay CLAY | |

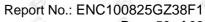
| EUT: | Bluetooth Headset | Model Name: | R9 04 04 |
|--------------|-------------------------|--------------------|----------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | CH00-DH1/DH3/DH5 -3Mbps | 40 | 10 10 |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-------------|-----------|---------------------|----------------|------------|
| DH5 | 2402MHz | 3.0400 | 0.3243 | 0.4000 |
| DH3 | 2402MHz | 1.7200 | 0.2752 | 0.4000 |
| 04 DH1 04 | 2402MHz | 0.4400 | 0.1408 | 0.4000 |

CH00-DH1

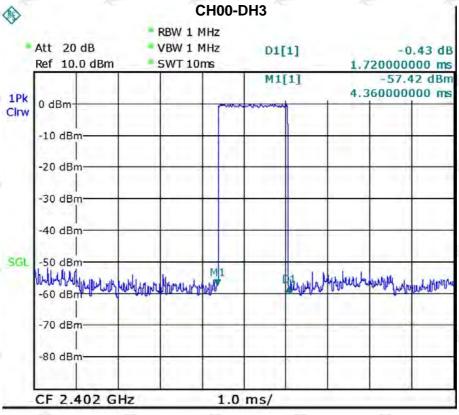


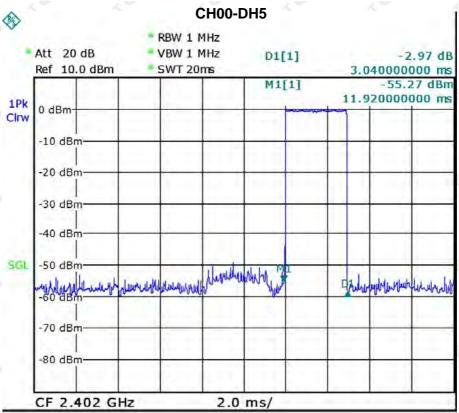






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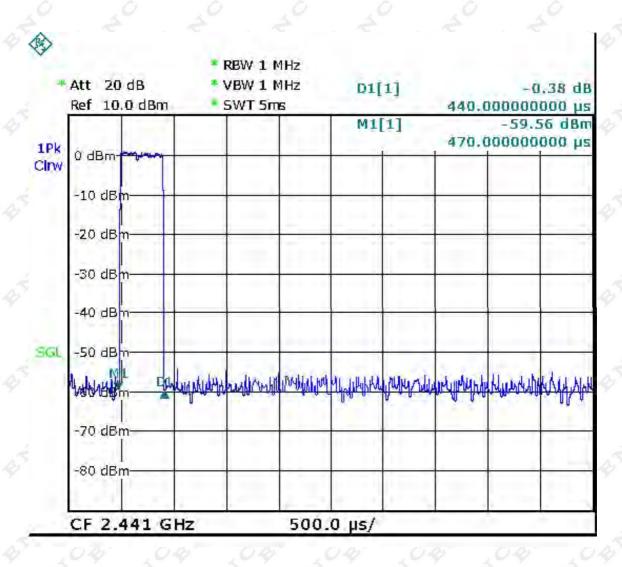


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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 0 |
|--------------|--------------------------|--------------------|----------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | CH39 -DH1/DH3/DH5 -3Mbps | χ.Ο | 10 10 1 |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-------------|-----------|---------------------|----------------|------------|
| DH5 | 2441MHz | 3.0000 | 0.3200 | 0.4000 |
| DH3 | 2441MHz | 1.7400 | 0.2784 | 0.4000 |
| 0 A DH1 0 A | 2441MHz | 0.4400 | 0.1408 | 0.4000 |

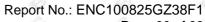
CH00-DH1



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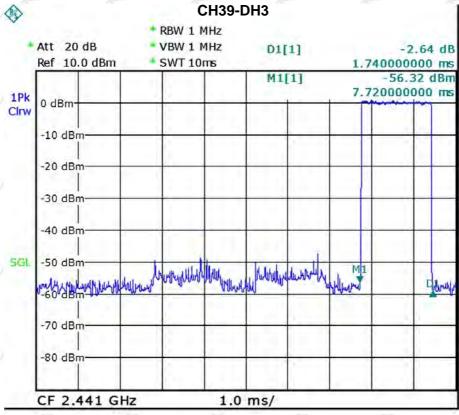


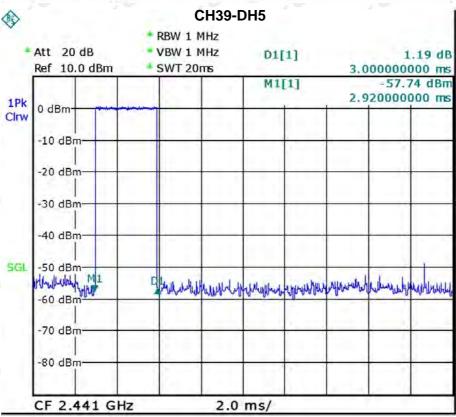
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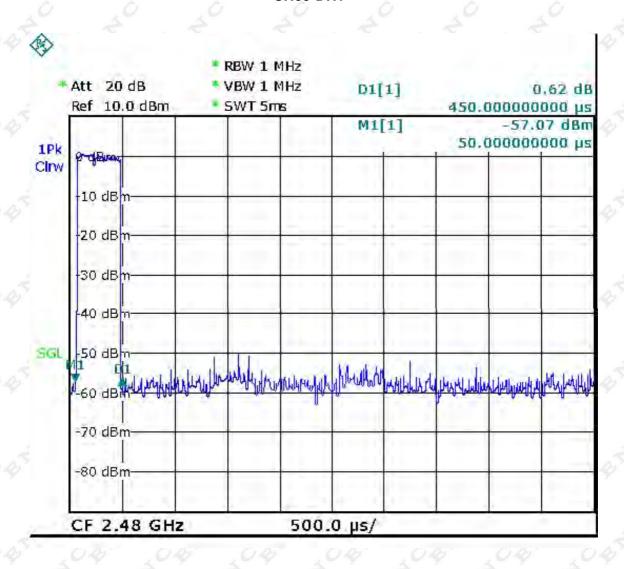


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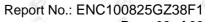
| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 0 |
|--------------|-------------------------|--------------------|----------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH78 -DH1/DH3/DH5-3Mbps | χ.Ο | 10 10 1 |

| Data Packet | Frequency | Pulse Duration (ms) | Dwell Time (s) | Limits (s) |
|-----------------|-----------|---------------------|----------------|------------|
| DH5 | 2480MHz | 3.0000 | 0.3200 | 0.4000 |
| DH3 | 2480MHz | 1.7300 | 0.2768 | 0.4000 |
| 0.45° DH1 0.45° | 2480MHz | 0.4500 | 0.1440 | 0.4000 |

CH00-DH1

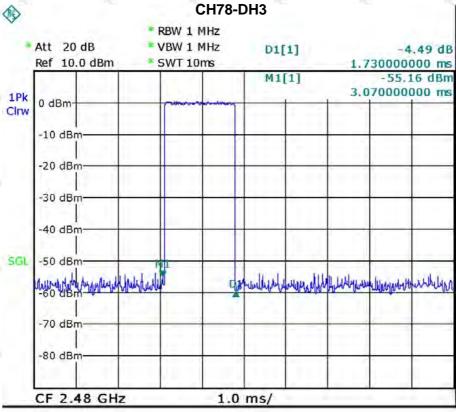


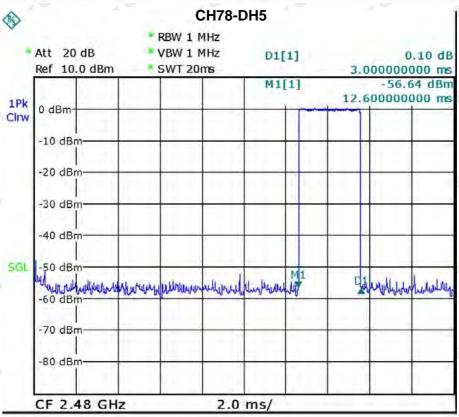






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7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

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.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

| | Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|------|-------------------|--------------|----------|------------|------------------|
| 4 | 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

| Spectrum Parameter | Setting |
|---------------------|---|
| Attenuation | \$ 104 104 Auto \$ 104 104 |
| Span Frequency | > Measurement Bandwidth or Channel Separation |
| RB | 30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation) |
| VB | 100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation) |
| Detector Peak Trace | Max Hold 2049 2049 |
| Sweep Time | Auto |

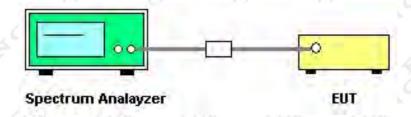
7.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.





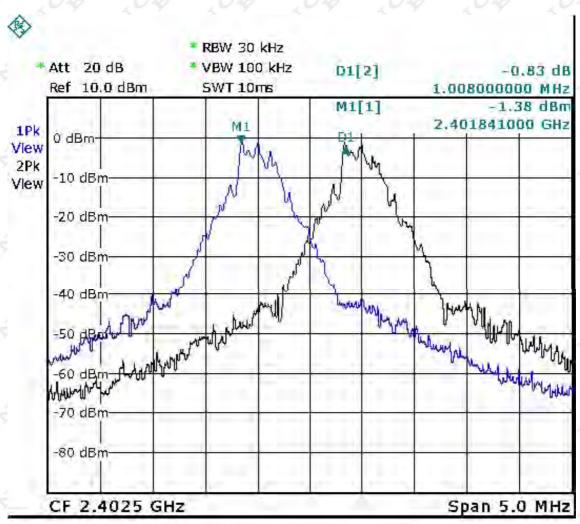
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7.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------------|--------------------|---------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | CH00 / CH39 /CH78-1Mbps | 104 104 | 704 704 |

| Frequency | Ch. Separation (MHz) | 20d Bandwidth B (kHz) | Result |
|-----------|----------------------|-----------------------|----------|
| 2402MHz | ÷ 1 1 | 870.30 | Complies |
| 2441MHz | 1001 | 830.30 | Complies |
| 2480MHz | 25° 125° 2 | 826.30 | Complies |

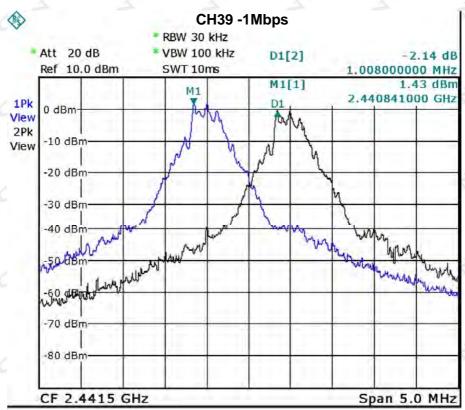
Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth

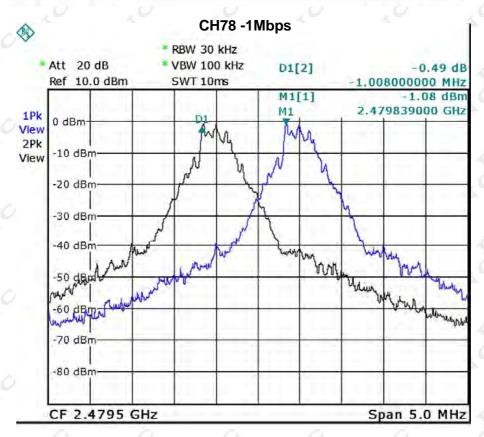












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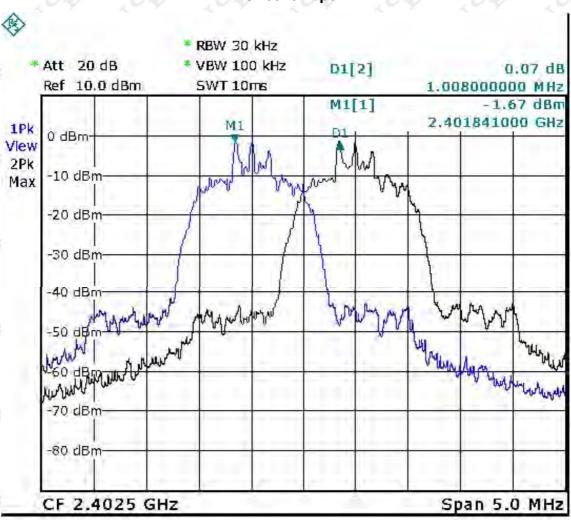
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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|-------------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00 / CH39 /CH78-3Mbps | , , , | (|

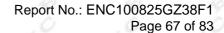
| Frequency | Ch. Separation (MHz) | 20d Bandwidth B (kHz) | Result |
|-----------|----------------------|-----------------------|----------|
| 2402MHz | 19 19 | 1185.60 | Complies |
| 2441MHz | 10 10 A | 1201.60 | Complies |
| 2480MHz | 7 041 04 | 1181.60 | Complies |

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth

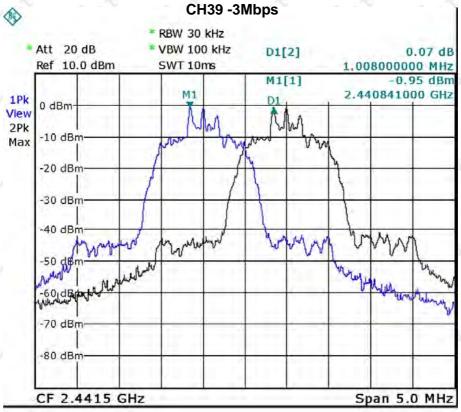
CH00 -3Mbps

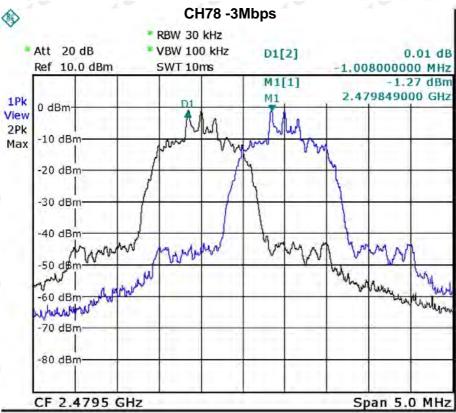












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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|--|-----------|------------------------------|-------------|--------|
| Section Test Item Limit Frequency Range (MHz) Result | | | | Result |
| 15.247 (a)(2) | Bandwidth | <= 1 MHz (20dB bandwidth) | 2400-2483.5 | PASS |

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

| Spectrum Parameters | Setting | | |
|---------------------|---|--|--|
| Attenuation | 04 04 04 Auto 4 04 04 | | |
| Span Frequency | > Measurement Bandwidth or Channel Separation | | |
| RB | 30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation) | | |
| VB | 100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation) | | |
| Detector | 04 04 Peak 4 04 04 | | |
| Trace | Max Hold | | |
| Sweep Time | Auto | | |

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 10KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

| EUT | 040 | | SPECTRUM |
|-----|-----|---|----------|
| | 47 | 4 | ANALYZER |
| 6.1 | | | 0 |

8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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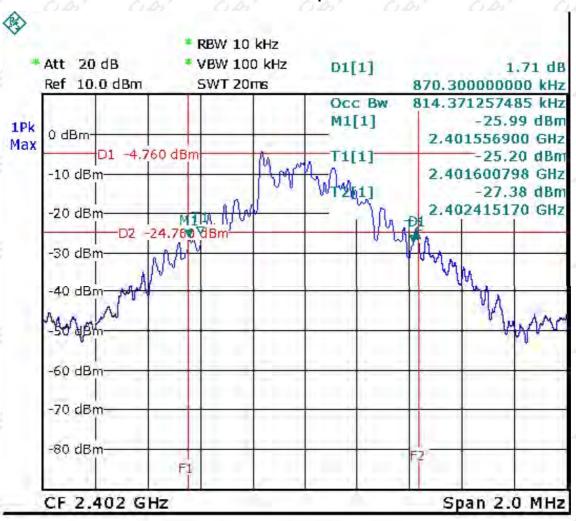
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8.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------------|--------------------|---------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | CH00 / CH39 /CH78-1Mbps | 104 104 | 704 704 |

| Frequency | 20dB Bandwidth (KHz) | Channel Separation (MHz) | Result |
|-----------|----------------------|--------------------------|--------|
| 2402MHz | 870.30 | ≤ 1MHz | PASS |
| 2441MHz | 830.30 | ≤ 1MHz | PASS |
| 2480MHz | 826.30 | ≤ 1MHz | PASS |

CH00 -1Mbps

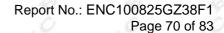


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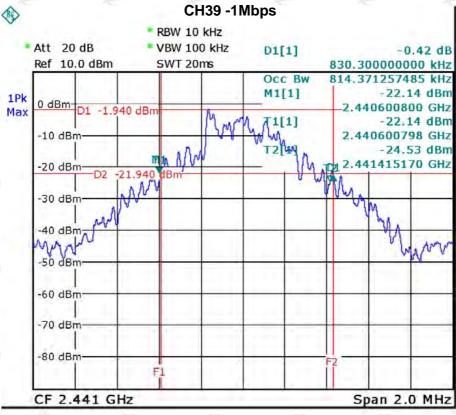


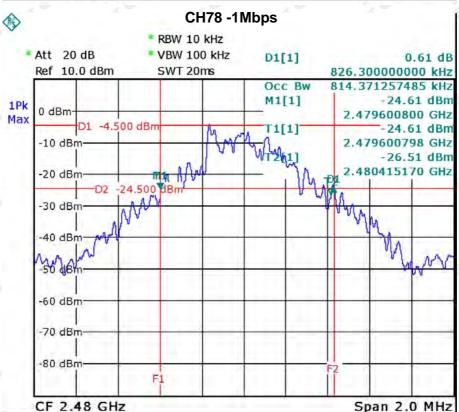
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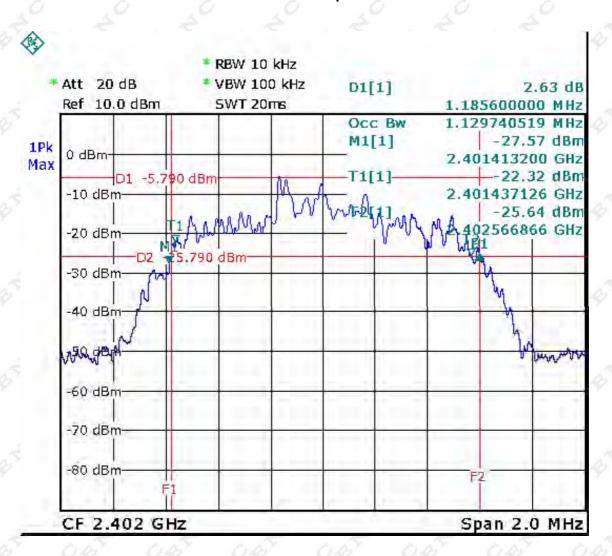


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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|-------------------------|--------------------|--------------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00 / CH39 /CH78-1Mbps | , o | 20 20 2 |

| Frequency | 20dB Bandwidth (KHz) | Channel Separation (MHz) | Result |
|-----------|----------------------|--------------------------|--------|
| 2402MHz | 1185.60 | ≤ 1MHz | PASS |
| 2441MHz | 1201.60 | ≤ 1MHz | PASS |
| 2480MHz | 1181.60 | | PASS |

CH00 -3Mbps

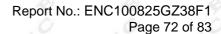


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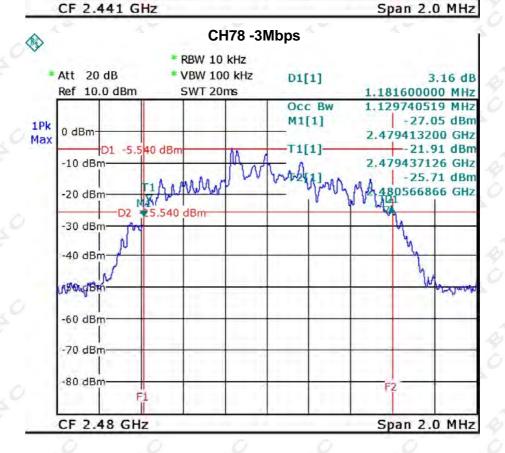
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CH39 -3Mbps RBW 10 kHz * VBW 100 kHz Att 20 dB D1[1] 1.24 dB Ref 10.0 dBm SWT 20ms 1.201600000 MHz Occ Bw 1.129740519 MHz M1[1]-26.90 dBm 1Pk 0 dBm 2.440413200 GHz Max D1 -5.210 dBm T1[1] -21.75 dBm -10 dBm 2.440437126 GHz -24.95 dBm 1566866 GHZ -20 dBm 25.210 dBm -30 dBm -40 dBr A SALWER BY -60 dBm -70 dBm -80 dBm



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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | | |
|---------------------------------|----------------------|--------------|--------------------------|--------|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | |
| 15.247 (b)(1) | Peak Output Power | 1 W or 30dBm | 2402-2480 | PASS | |

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

| Ite | m Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|-----|---------------------|--------------|----------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

9.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

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9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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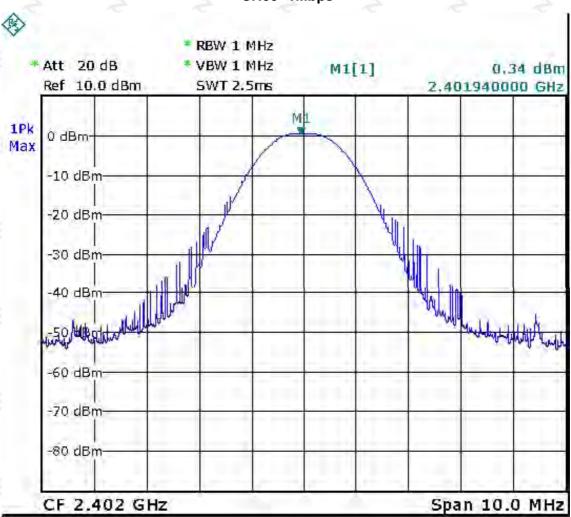
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9.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------------|--------------------|---------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00/ CH39 /CH78 -1Mbps | 104 104 | 704 704 |

| Test Channel | Frequency | Peak Output Power | LIMIT | LIMIT |
|---------------|-----------|-------------------|-------|--------|
| rest Chamilei | (MHz) | (dBm) | (dBm) | (W) |
| CH00 | 2402 | 0.34 | 30 | 2 1049 |
| CH39 | 2441 | 3.12 | 30 | \$ 1 A |
| CH78 | 2480 | 0.51 | 30 | ò 1 ¿ |

CH00 -1Mbps

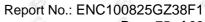


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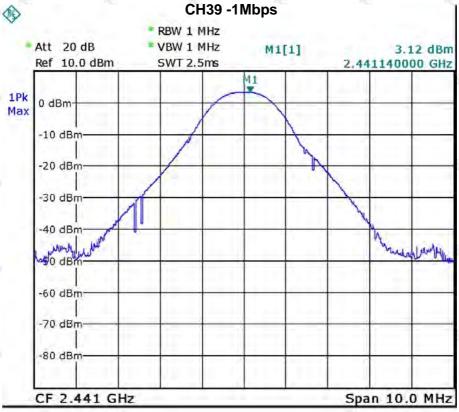
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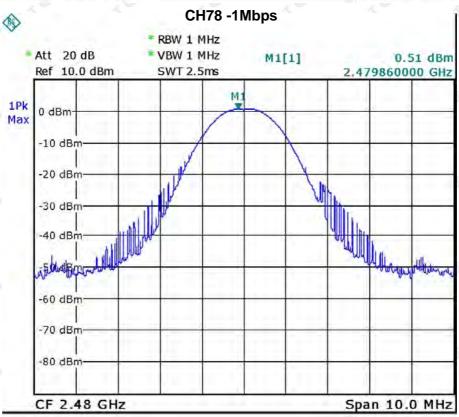
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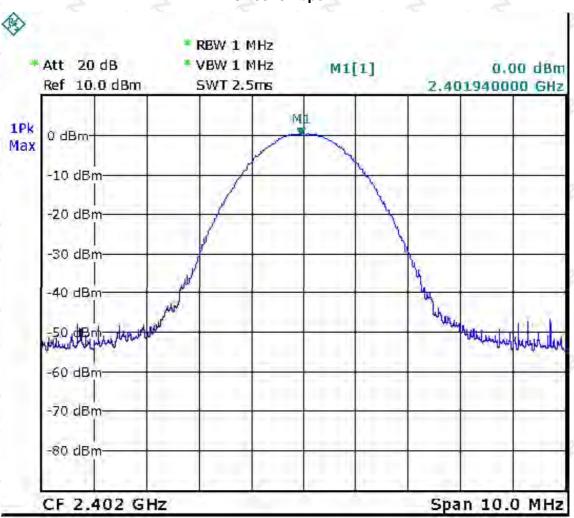


| topoit ito Eito | 10002002001 1 |
|-----------------|---------------|
| | Page 76 of 83 |

| EUT: | Bluetooth Headset | Model Name: | R9 00 00 |
|--------------|-------------------------|--------------------|----------|
| Temperature: | 23 °C | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00 / CH39 /CH78-1Mbps | 40 | 10 10 |

| | Toot Channel | Frequency | Peak Output Power | LIMIT | LIMIT |
|----|--------------|-----------|-------------------|-------|-----------------|
| | Test Channel | (MHz) | (dBm) | (dBm) | (W) |
| | CH00 | 2402 | 0.00 | 30 | 3 1 3 C |
| | CH39 | 2441 | 2.80 | 30 04 | 5 104 |
| h. | CH78 | 2480 | 0.33 | 30 | - 21 |

CH00 -3Mbps

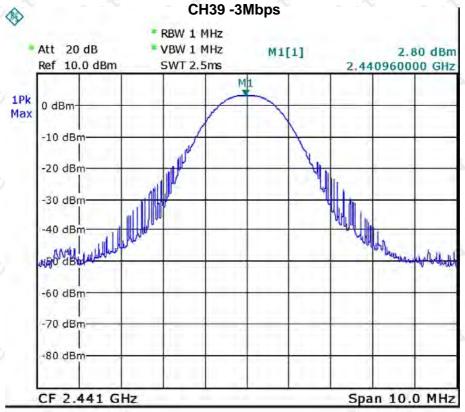


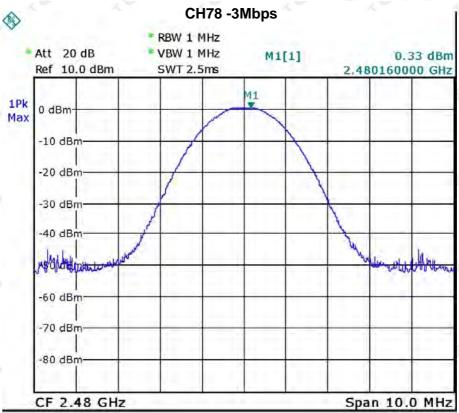






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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 4 | 4 1043 104 |
| 216~960 | 200 | 3 7 |
| Above 960 | 500 | 6 3 6 |

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | 05/28/2011 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Attenuation | 0 Auto 04 04 |
| Span Frequency | 100 MHz |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (other emission) | 100 KHz /100 KHz for Peak |

10.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto

10.1.3 DEVIATION FROM STANDARD

No deviation.

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10.1.4 TEST SETUP

| EUT | 4 | 4 | 4 | SPECTRUM |
|----------|----|-----|-----|----------|
| Market . | 20 | - i | a C | ANALYZER |

10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.





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10.1.6 TEST RESULTS

| EUT: | Bluetooth Headset | Model Name: | R9 |
|--------------|-------------------|--------------------|---------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage: | DC 3.7V |
| Test Mode: | CH00 / CH78-1Mbps | 00 00 | 00 00 |

| The max. radio frequency power in any 100kHz | | The max. radio frequency power in any 100 kHz | |
|--|------------|---|------------|
| bandwidth outside the frequency band | | bandwidth within the frequency band. | |
| FREQUENCY(MHz) | POWER(dBm) | FREQUENCY(MHz) | POWER(dBm) |
| 2337.95 | -61.84 | 2488.66 | -60.28 |
| 40 40 | Re | cult 4 | 40 4 |

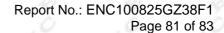
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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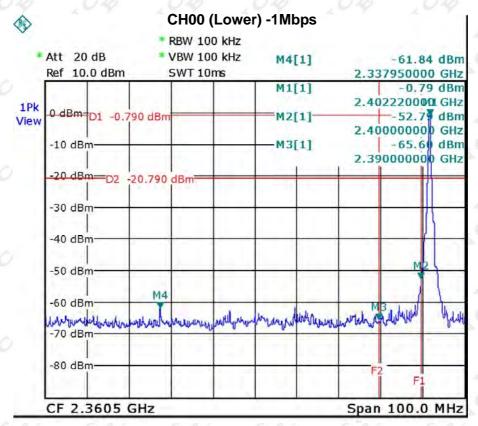


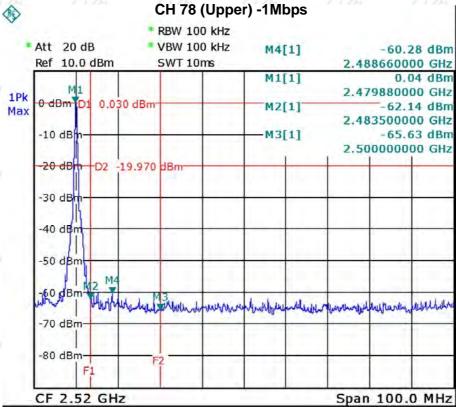
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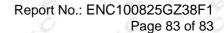
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| EUT: | Bluetooth Headset | Model Name: | R9 0 0 0 0 0 |
|--------------|-------------------|--------------------|--------------|
| Temperature: | 23 ℃ | Relative Humidity: | 65 % |
| Pressure: | 1012hPa | Test Voltage : | DC 3.7V |
| Test Mode: | CH00 / CH78-3Mbps | 1 40 | 30 30 3 |

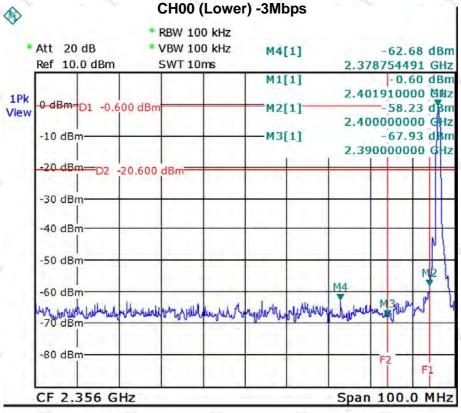
| The max. radio frequency power in any 100kHz | | The max. radio frequency power in any 100 kHz | |
|--|------------|---|------------|
| bandwidth outside the frequency band | | bandwidth within the frequency band. | |
| FREQUENCY(MHz) | POWER(dBm) | FREQUENCY(MHz) | POWER(dBm) |
| 2378.75 | -62.68 | 2496.05 | -60.19 |

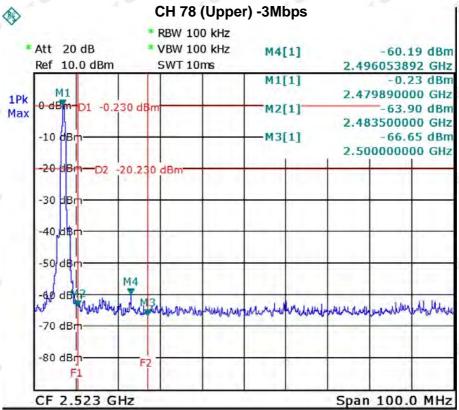
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.











----END OF REPORT----

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