



Part 15C

TEST REPORT

| | |
|---------------|---|
| Product Name | gogo Sport Music Player |
| Model | GH-Bxxx(yyy represent Numbers, owing to the different sales areas) |
| FCC ID | 2AEJBGH-B |
| Applicant | Beijing Guochengwantong Information Technology Co., Ltd |
| Manufacturer | Tianjing Zhuoda Technology Development Co., Ltd |
| Date of issue | August 5,2015 |

TA Technology (Shanghai) Co., Ltd.

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GENERAL SUMMARY

| | |
|------------------------------|--|
| Reference Standard(s) | <p>FCC CFR47 Part 15C (2013) Radio Frequency Devices</p> <p>15.205 Restricted bands of operation;</p> <p>15.207 Conducted limits;</p> <p>15.209 Radiated emission limits; general requirements;</p> <p>15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz.</p> <p>ANSI C63.4 Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40GHz. (2014)</p> <p>DA00-705 Filing and Frequency Measurement Guidelines For Frequency Hopping Spread Spectrum System.(2000)</p> |
| Conclusion | This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards. General Judgment: Pass |
| Comment | The test result only responds to the measured sample. |

Approved by

Kai Xu
Director

Revised by

Lingling Kang
RF Manager

Performed by

Changxu Wan
RF Engineer

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1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L2264.

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. The site recognition number is 428261.

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 8510A.

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test. The sample under test was selected by the Client.

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of **TA Technology (Shanghai) Co., Ltd.**

If the electronic report is inconsistent with the printed one, it should be subject to the latter.

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1.2. Testing laboratory

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
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Contact: Xu Kai
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Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

1.3. Applicant Information

Company: Beijing Guochengwantong Information Technology Co., Ltd
Address: 16F,Tower B, Ding Hao Building,No.3 Haidian Street,Haidian District
Beijing
PR China

1.4. Manufacturer Information

Company: Tianjing Zhuoda Technology Development Co., Ltd
Address: Xinye Street One,Western Economic and Technology Development
Zone, Tianjin
PR China

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1.5. Information of EUT

General information

| | | | |
|----------------------------------|--|-------------------------|--------|
| Name of EUT: | gogo Sport Music Player | | |
| IMEI: | 17000001 | | |
| Hardware Version: | V0.5 | | |
| Software Version: | V0.7 | | |
| Antenna Type: | Internal Antenna | | |
| Device Operating Configurations: | | | |
| Test Mode | Basic Rate | Enhanced Data Rate(EDR) | |
| Modulation Type: | Frequency Hopping Spread Spectrum (FHSS) | | |
| | GFSK | $\pi/4$ DQPSK | 8DQPSK |
| Packet Type:(Maximum Payload) | DH5 | 2DH5 | 3DH5 |
| Max. Conducted Power | 6.9 dBm | | |
| Power Supply: | Lithium Battery and AC Adapter | | |
| Operating Frequency Range(s) | 2402 ~ 2480MHz | | |
| Tested Frequency Range(s) | 2400 ~ 2483.5 MHz | | |

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Auxiliary equipment details

| Name | Model | Manufacturer | Capacity |
|-----------------|-----------|---------------------|----------|
| Lithium Battery | ICS651317 | Zeni Power Co., Ltd | 100mAh |

1.6. Test Date

The test is performed from July 7, 2015 to August 1, 2015.

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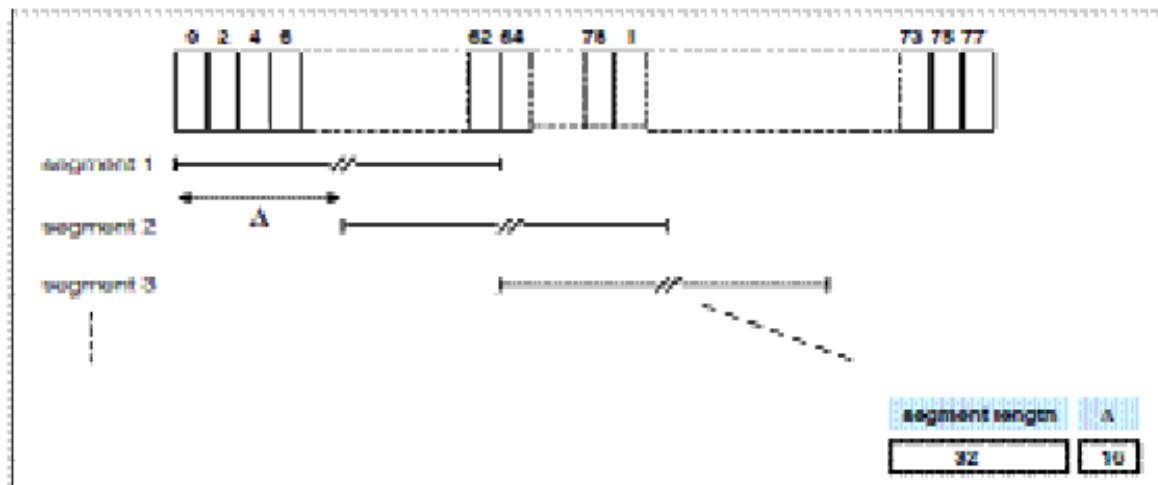
2. Information about the FHSS characteristics

2.1. Pseudorandom Frequency Hopping Sequence

Frequency Hopping Systems. A spread spectrum system in which the carrier is modulated with the coded information in a conventional manner causing a conventional spreading of the RF energy about the frequency carrier. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The wide RF bandwidth needed by such a system is not required by spreading of the RF energy about the carrier but rather to accommodate the range of frequencies to which the carrier frequency can hop. The test of a frequency hopping system is that the near term distribution of hops appears random, the long term distribution appears evenly distributed over the hop set, and sequential hops are randomly distributed in both direction and magnitude of change in the hop set.

The selection scheme chooses a segment of 32 hop frequencies spanning about 64 MHz and visits these hops in a pseudo-random order. Next, a different 32-hop segment is chosen, etc. In the page, master page response, slave page response, page scan, inquiry, inquiry response and inquiry scan hopping sequences, the same 32-hop segment is used all the time (the segment is selected by the address; different devices will have different paging segments).

When the basic channel hopping sequence is selected, the output constitutes a pseudo-random sequence that slides through the 79 hops. The principle is depicted in the figure below.



Hop selection scheme in CONNECTION state.

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45, etc.

Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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2.2. Equal Hopping Frequency Use

All Bluetooth units participating in the Pico net are time and hop-synchronized to the channel. Each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event.

2.3. System Receiver Input Bandwidth

Each channel bandwidth is 1MHz. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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3. Test Information

3.1. Test Mode

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

EUT is stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate.

| Test Modes | | |
|------------|----------------------------|--|
| Band | Radiated Test Cases | Conducted Test Cases |
| BT | DH5 GFSK (Channel 0/39/78) | DH5 GFSK(Channel 0/39/78) 2DH5 π/4-DQPSK(Channel 0/39/78) 3DH5 8DQPSK(Channel 0/39/78) |

Note: The maximum RF output power levels are DH5 for GFSK modulation, For RSE and CSE, only the maximum RF output power is chosen.

3.2. Summary of test results

| Number | Summary of measurements of results | Clause in FCC rules | Verdict |
|--------|--|-------------------------|---------|
| 1 | Peak Power Output -Conducted | 15.247(b)(1) | PASS |
| 2 | Occupied Bandwidth (20dB) | 15.247(a)(1) | PASS |
| 3 | Frequency Separation | 15.247(a)(1) | PASS |
| 4 | Time of Occupancy (Dwell Time) | 15.247(a)(1)(iii) | PASS |
| 5 | Band Edge Compliance | 15.247(d) | PASS |
| 6 | Spurious Radiated Emissions in the restricted band | 15.247(d),15.205,15.209 | PASS |
| 7 | Number of Hopping Frequency | 15.247(a)(1)(iii) | PASS |
| 8 | Spurious RF Conducted Emissions | 15.247(d) | PASS |
| 9 | Radiates Emission | 15.247(d),15.205,15.209 | PASS |
| 10 | AC Power Line Conducted Emission | 15.207 | PASS |

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3.3. Peak Power Output –Conducted

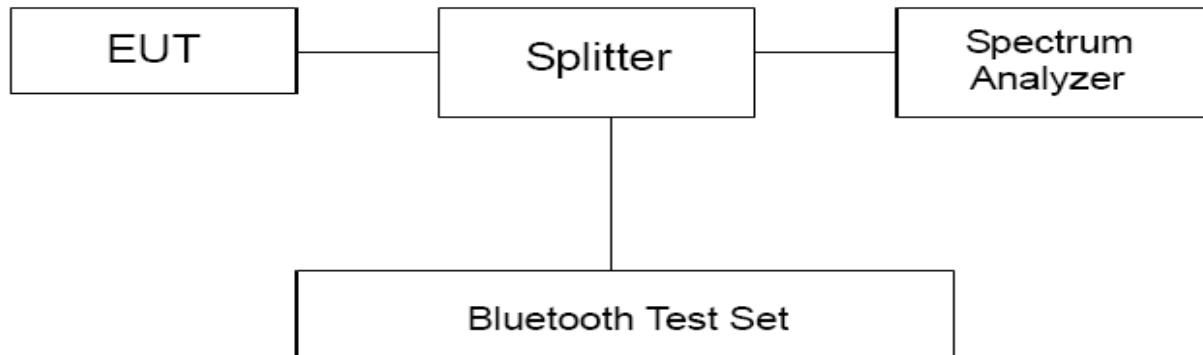
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Methods of Measurement

During the process of the testing, The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The EUT is controlled by the Bluetooth test set to ensure max power transmission with proper modulation. The peak detector is used. RBW is set to 2 MHz; VBW is set to 6 MHz. These measurements have been tested at following channels: 0, 39, and 78.

Test Setup



Limits

Rule Part 15.247 (b) (1)specifies that " For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts."

| | |
|-------------------|------------------------------|
| Peak Output Power | $\leq 0.125\text{W}$ (21dBm) |
|-------------------|------------------------------|

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U= 0.44$ dB.

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Test Results

Right Ear

| Channel | Frequency (MHz) | Peak Output Power (dBm) | | | Conclusion |
|---------|-----------------|-------------------------|------|------|------------|
| | | DH5 | 2DH5 | 3DH5 | |
| 0 | 2402 | 5.3 | 4.5 | 4.9 | PASS |
| 39 | 2441 | 6.9 | 6.1 | 6.6 | PASS |
| 78 | 2480 | 6.4 | 5.6 | 6.0 | PASS |

Left Ear

| Channel | Frequency (MHz) | Peak Output Power (dBm) | | | Conclusion |
|---------|-----------------|-------------------------|------|------|------------|
| | | DH5 | 2DH5 | 3DH5 | |
| 0 | 2402 | 4.9 | 3.9 | 3.8 | PASS |
| 39 | 2441 | 6.3 | 5.4 | 5.2 | PASS |
| 78 | 2480 | 6.0 | 5.2 | 5.2 | PASS |

Note: The measured power density (dBm) has the offset with cable loss already.

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3.4. Occupied Bandwidth (20dB)

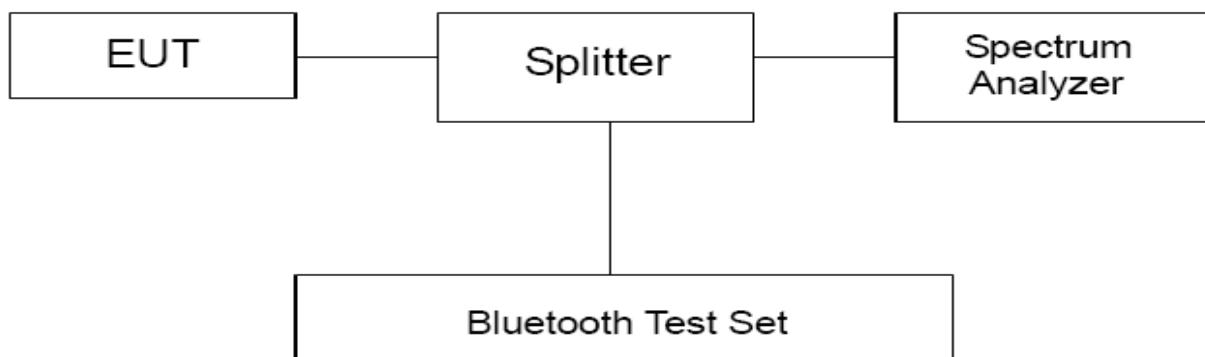
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 20kHz and VBW is set to 62kHz on spectrum analyzer. -20dB occupied bandwidths are recorded.

Test Setup



Limits

No specific occupied bandwidth requirements in part 15.247(a) (1).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

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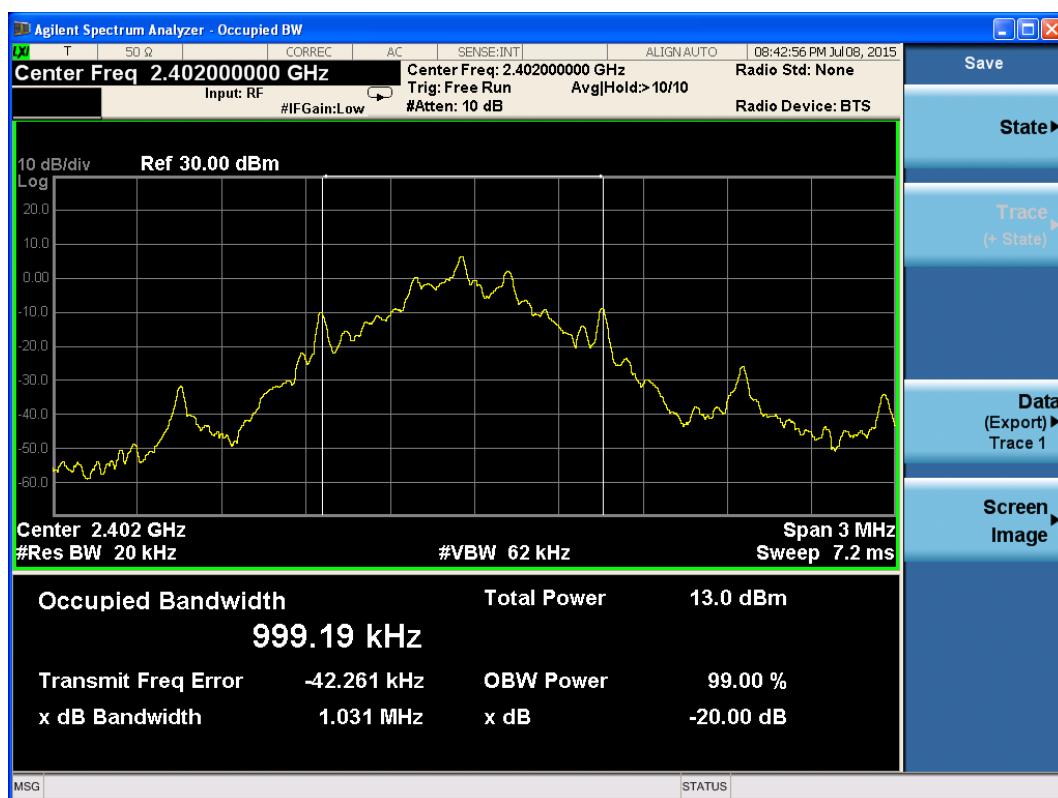
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Test Results

Right Ear

DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1031 |
| 39 | 2441 | 1031 |
| 78 | 2480 | 1031 |



Carrier frequency (MHz): 2402

Channel No.:0

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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

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2DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1088 |
| 39 | 2441 | 1086 |
| 78 | 2480 | 1089 |



Carrier frequency (MHz): 2402

Channel No.:0

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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

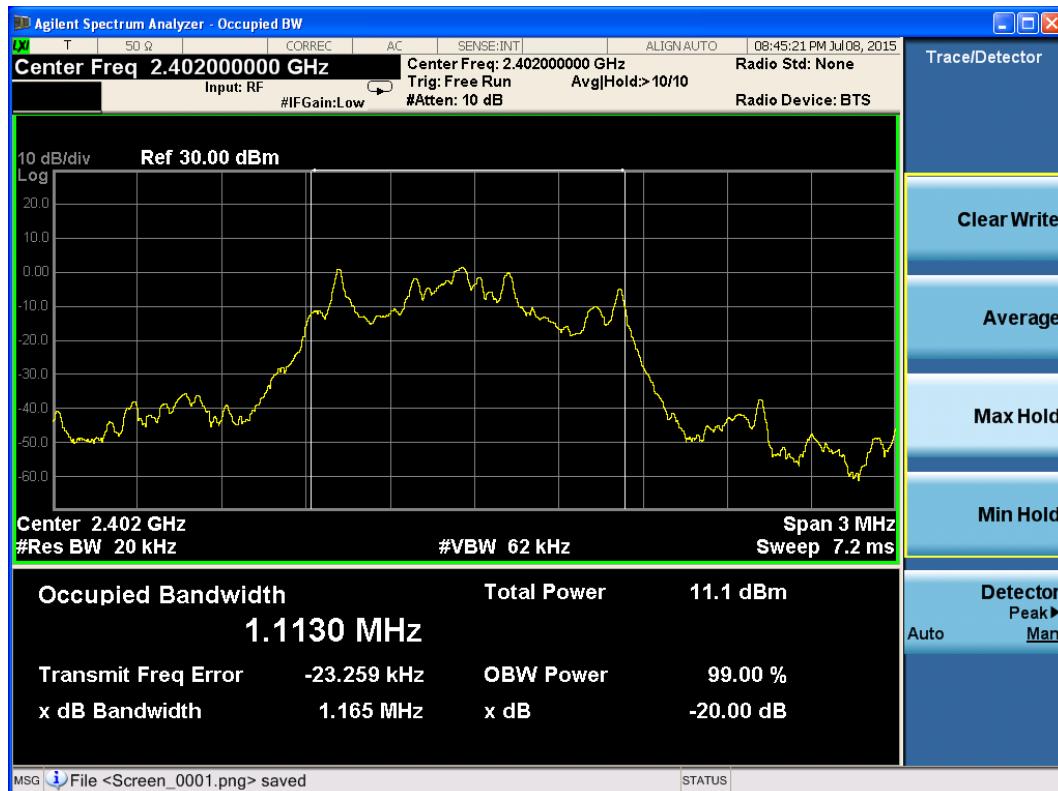
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3DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1165 |
| 39 | 2441 | 1174 |
| 78 | 2480 | 1171 |



Carrier frequency (MHz): 2402

Channel No.:0

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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

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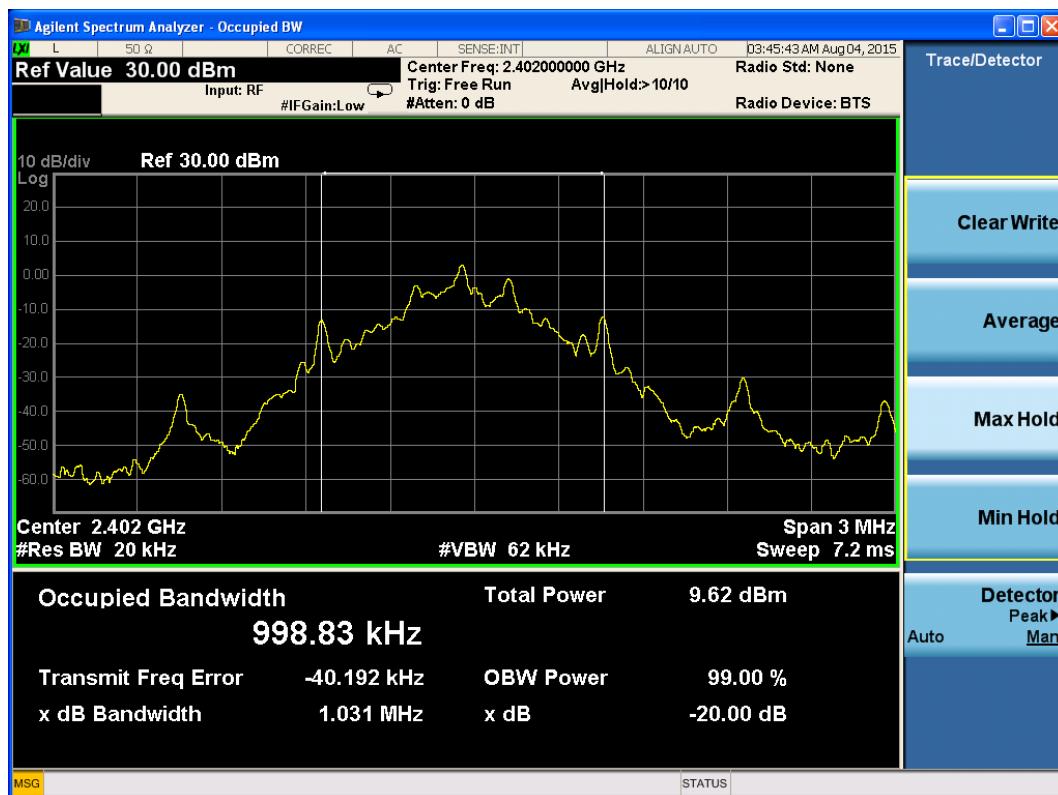
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Left Ear

DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1031 |
| 39 | 2441 | 1029 |
| 78 | 2480 | 1030 |



Carrier frequency (MHz): 2402

Channel No.:0

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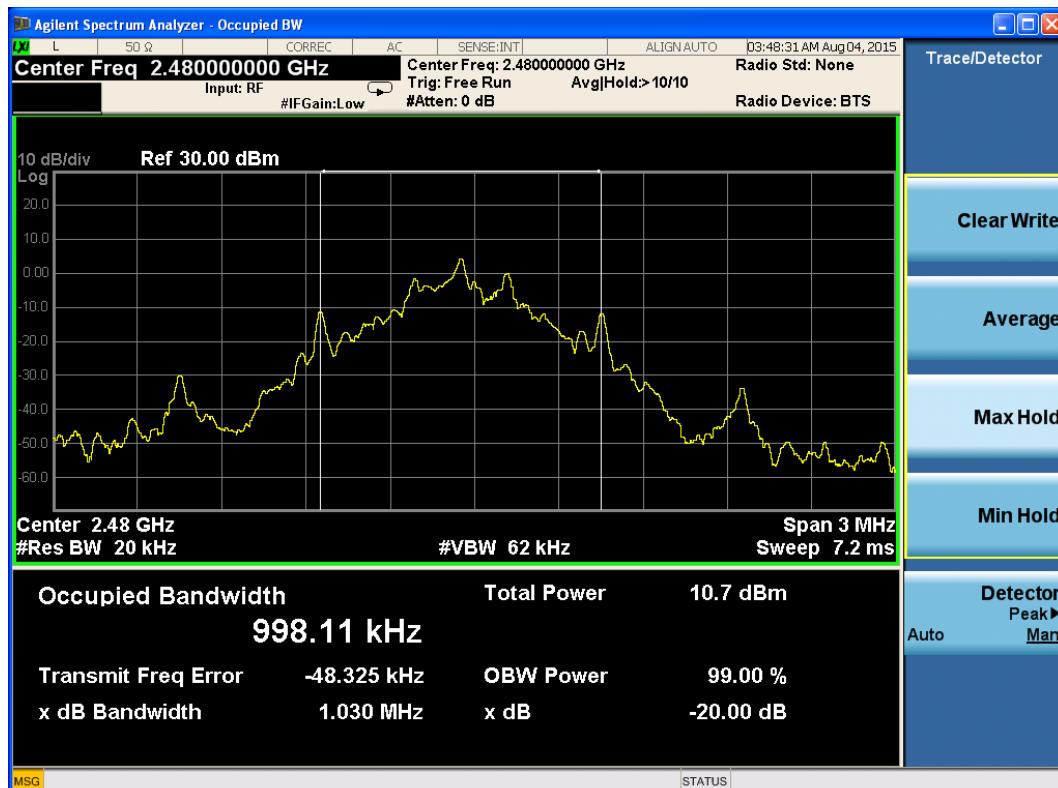
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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

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2DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1089 |
| 39 | 2441 | 1086 |
| 78 | 2480 | 1088 |



Carrier frequency (MHz): 2402

Channel No.:0

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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

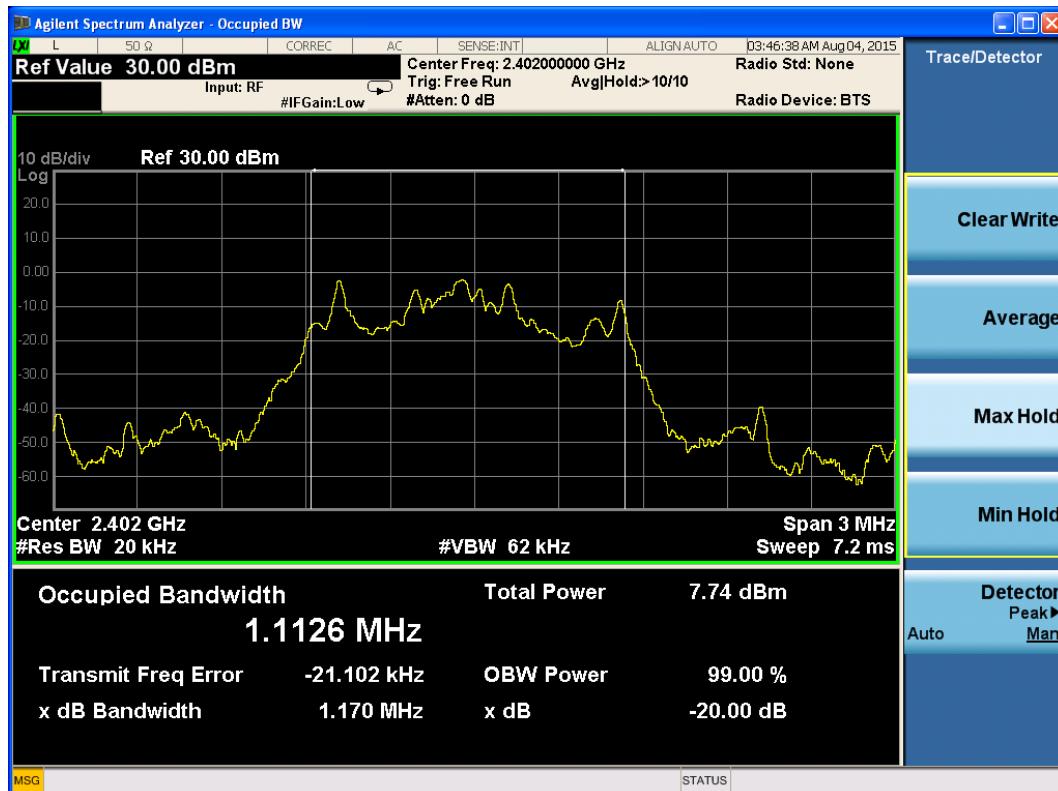
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3DH5

| Channel | Frequency (MHz) | 20dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 0 | 2402 | 1170 |
| 39 | 2441 | 1172 |
| 78 | 2480 | 1171 |



Carrier frequency (MHz): 2402

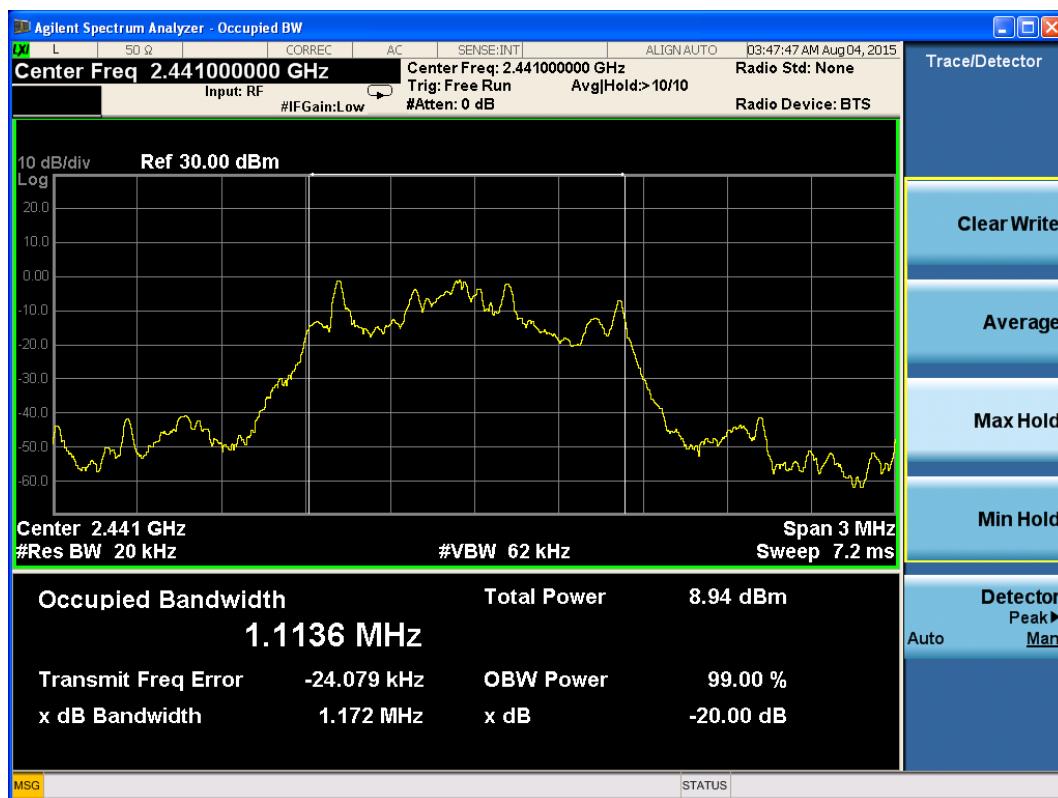
Channel No.:0

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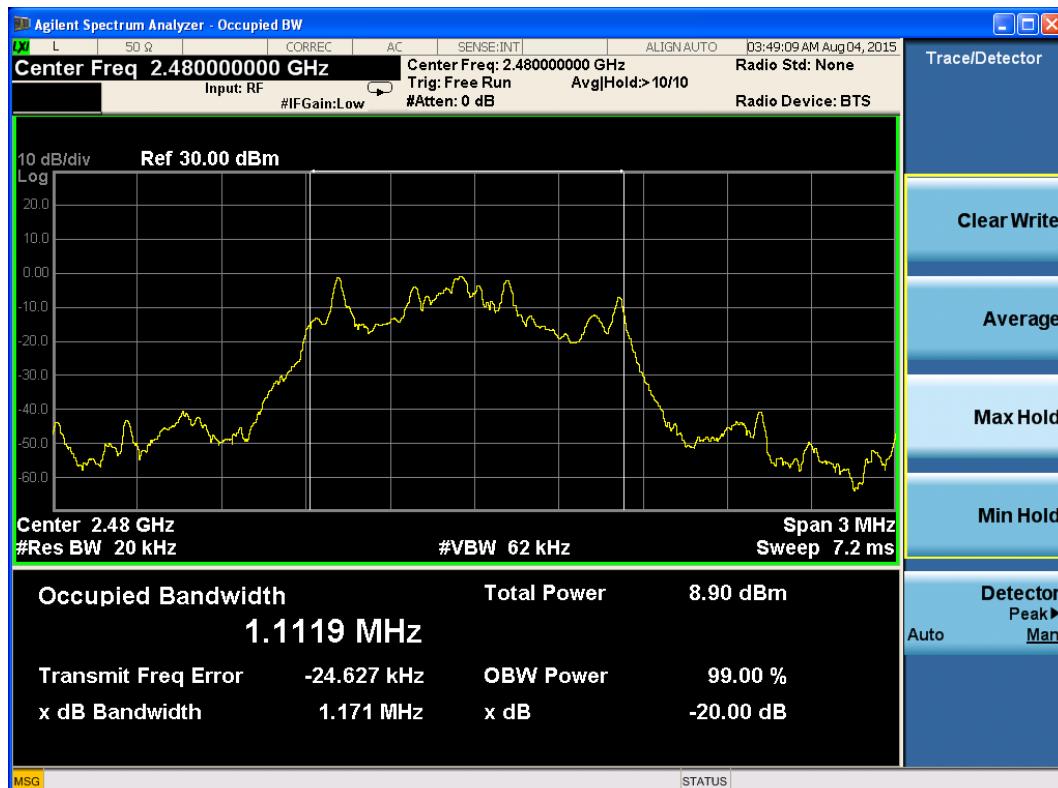
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Carrier frequency (MHz): 2441

Channel No.:39



Carrier frequency (MHz): 2480

Channel No.:78

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3.5. Frequency Separation

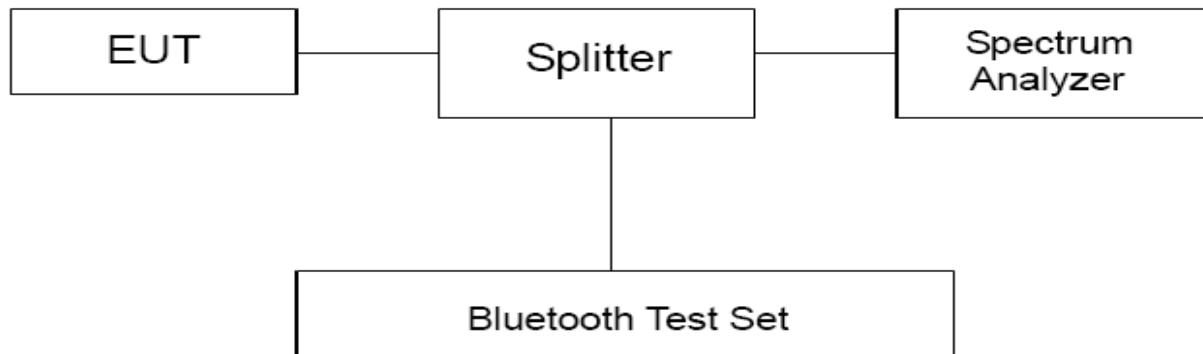
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 300 kHz and VBW is set to 3MHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

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

Note: The value of two-thirds of 20 dB bandwidth is always greater than 25 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

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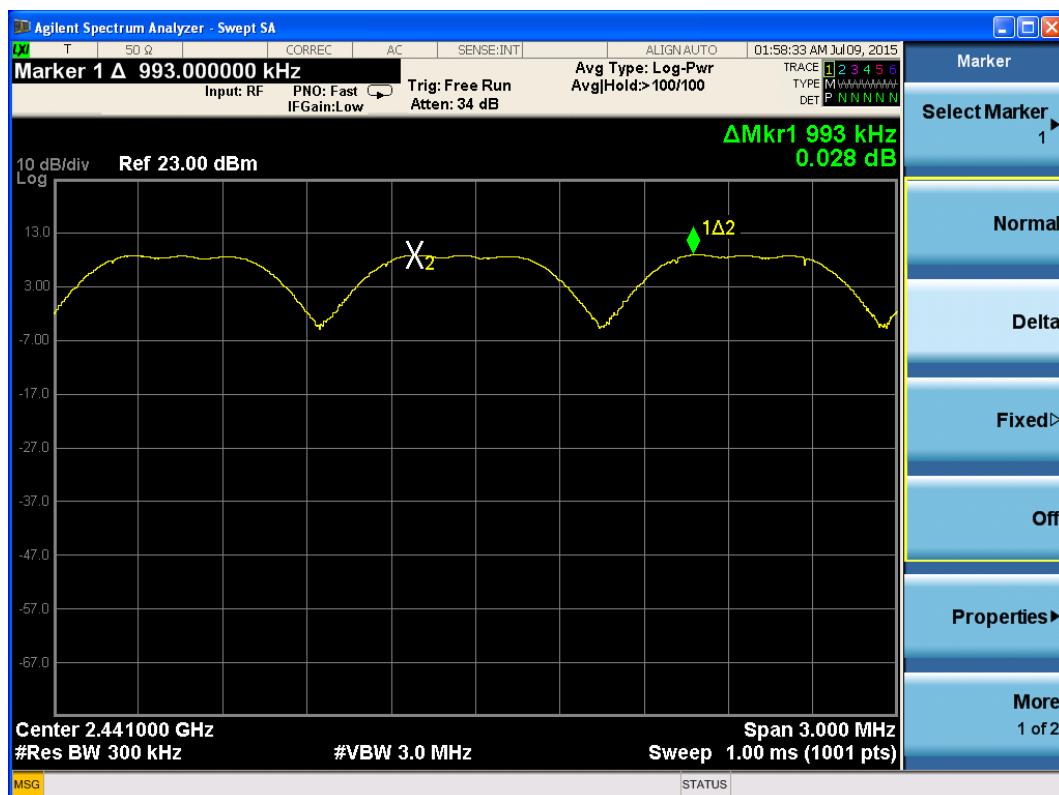
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Test Results:

Right Ear

| Packet type | Carrier frequency separation(kHz) | 20dB Bandwidth (kHz) | Limit(kHz) | Conclusion |
|-------------|-----------------------------------|----------------------|------------|------------|
| DH5 | 993 | 1031 | 687.3 | PASS |
| 2DH5 | 984 | 1086 | 724 | PASS |
| 3DH5 | 978 | 1174 | 782.7 | PASS |

Note: The limit is two-thirds of 20 dB bandwidth.



DH5 Carrier frequency (MHz): 2441

Channel No.:39

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2DH5 Carrier frequency (MHz): 2441
Channel No.:39



3DH5 Carrier frequency (MHz): 2441
Channel No.:39

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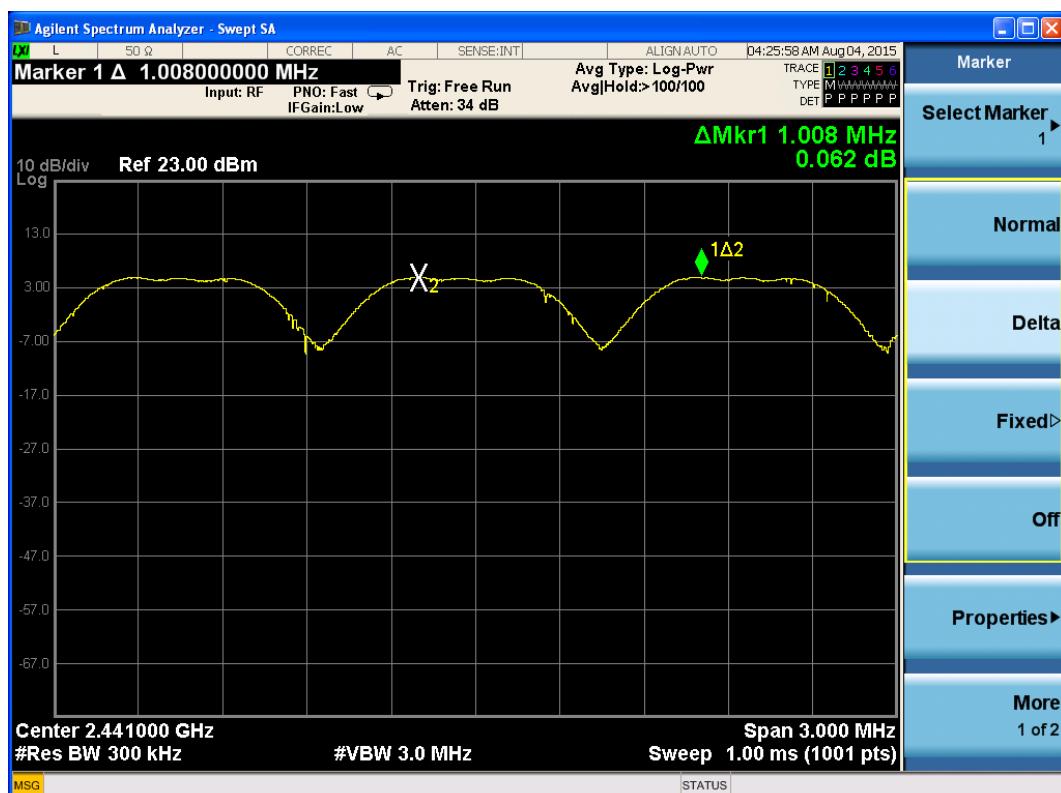
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Left Ear

| Packet type | Carrier frequency separation(kHz) | 20dB Bandwidth (kHz) | Limit(kHz) | Conclusion |
|-------------|-----------------------------------|----------------------|------------|------------|
| DH5 | 1008 | 1029 | 686 | PASS |
| 2DH5 | 978 | 1086 | 724 | PASS |
| 3DH5 | 1002 | 1172 | 781 | PASS |

Note: The limit is two-thirds of 20 dB bandwidth.



DH5 Carrier frequency (MHz): 2441

Channel No.:39

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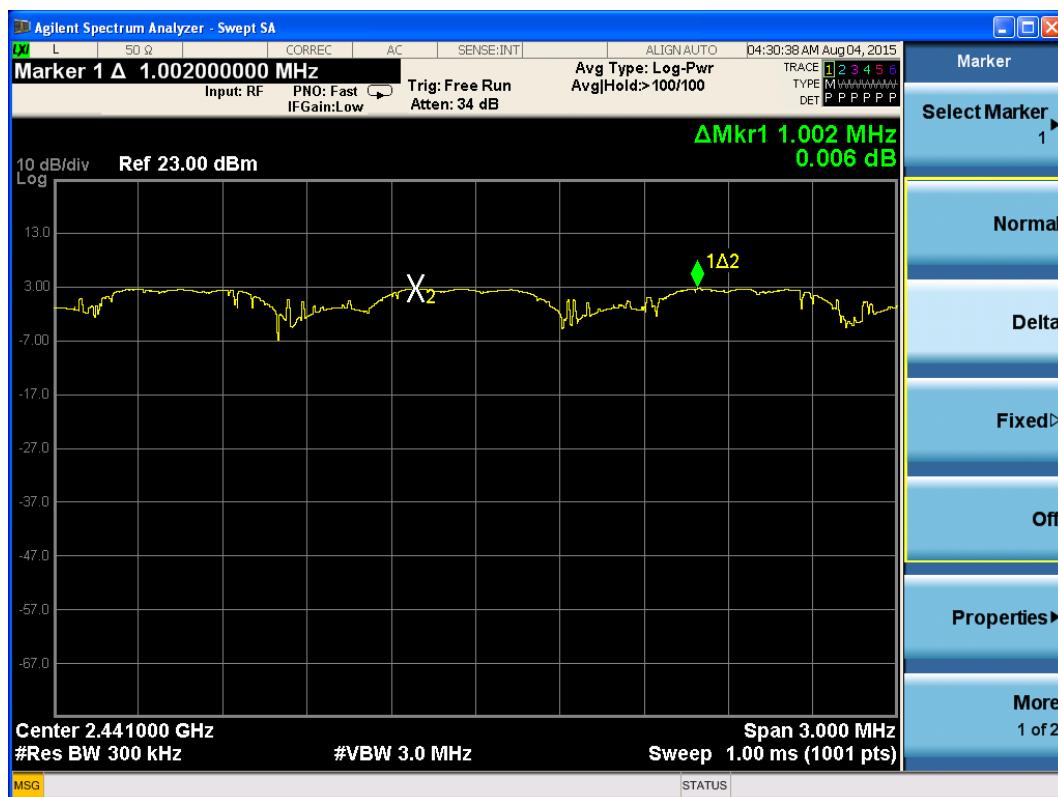
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2DH5 Carrier frequency (MHz): 2441

Channel No.:39



3DH5 Carrier frequency (MHz): 2441

Channel No.:39

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3.6. Time of Occupancy (Dwell Time)

Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

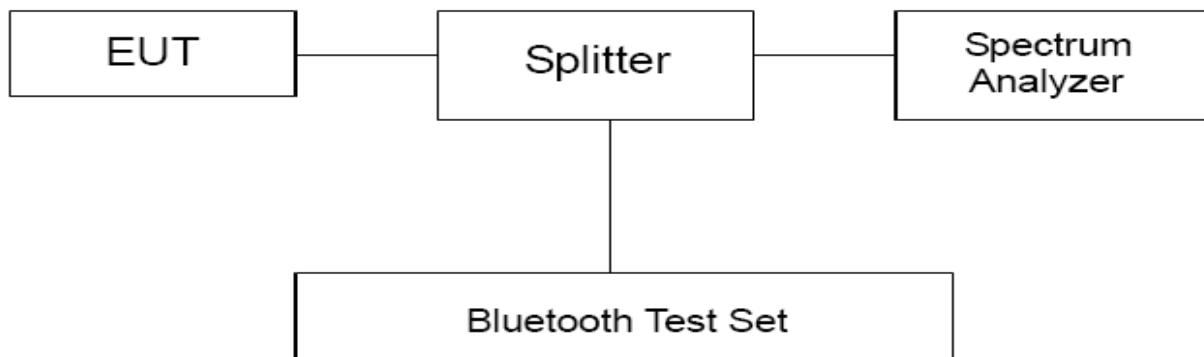
Methods of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 1MHz and VBW is set to 3MHz on spectrum analyzer .The time slot length is measured of three different packet types, which are available in the Bluetooth technology. Those are DH1, DH3 and DH5 packets. The dwell time is calculated by:

Dwell time = time slot length * hop rate * 0.4s with:

- hop rate=1600 * 1/s for DH1 packet =1600
- hop rate=1600/3 * 1/s for DH3 packet =533.33
- hop rate=1600/5 * 1/s for DH5 packet =320

Test Setup



Limits

Rule Part 22.913(a) specifies that " Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.."

| | |
|------------|---------------------|
| Dwell time | $\leq 400\text{ms}$ |
|------------|---------------------|

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$.

| Requirements | Uncertainty | |
|--------------|-------------|--------------------|
| Dwell Time | DH1 | $U= 0.64\text{ms}$ |
| | DH3 | $U= 0.80\text{ms}$ |
| | DH5 | $U= 0.70\text{ms}$ |

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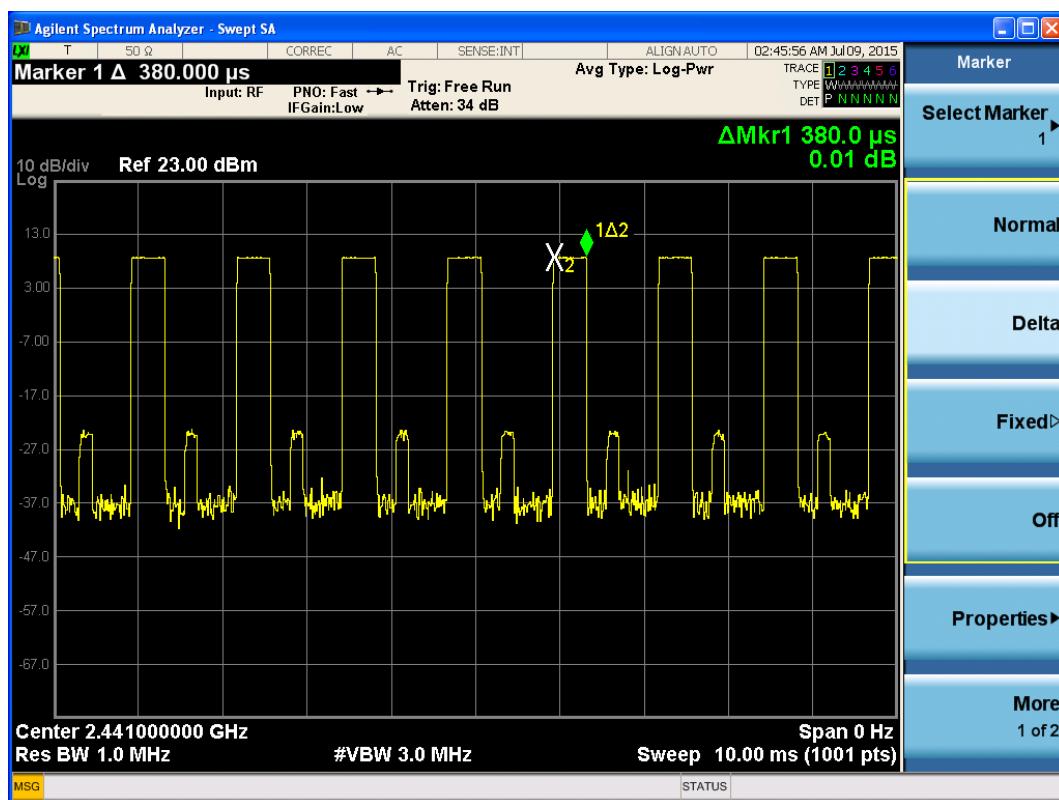
Test Results:

Right Ear

CH 39

| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| DH1 | 1600 | 0.38 | 243.2 | 400 | PASS |
| DH3 | 533.33 | 1.64 | 349.86 | 400 | PASS |
| DH5 | 320 | 2.88 | 368.64 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s



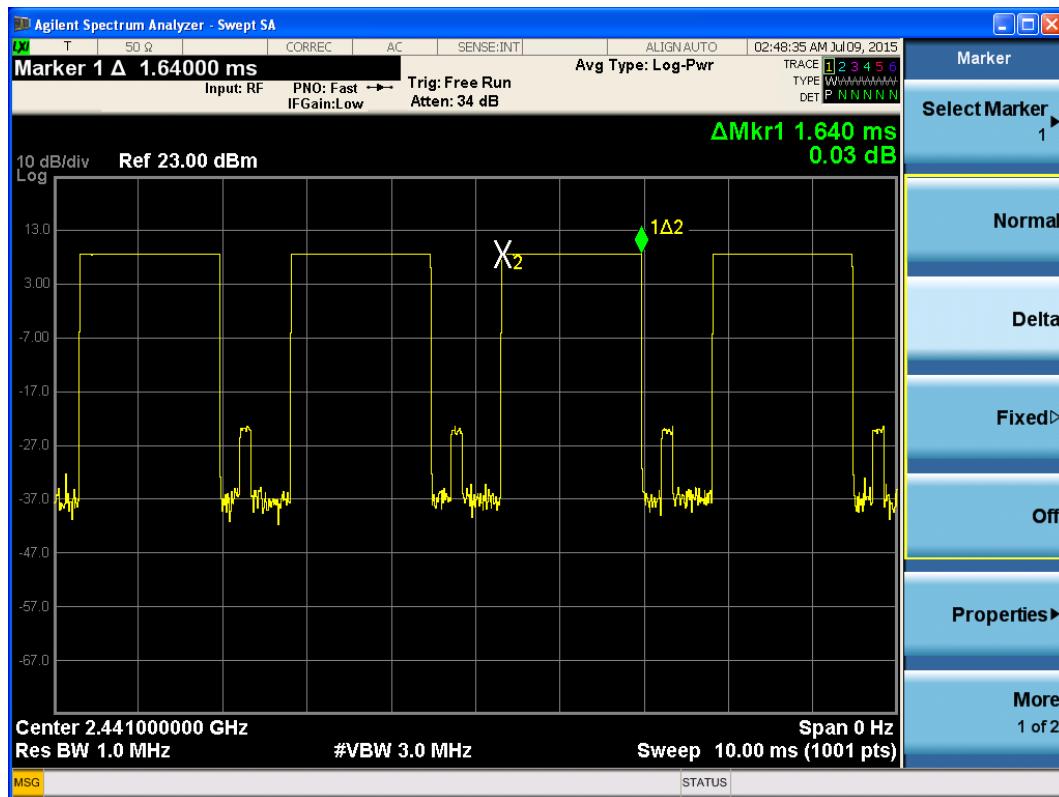
Carrier frequency (MHz): 2441.DH1

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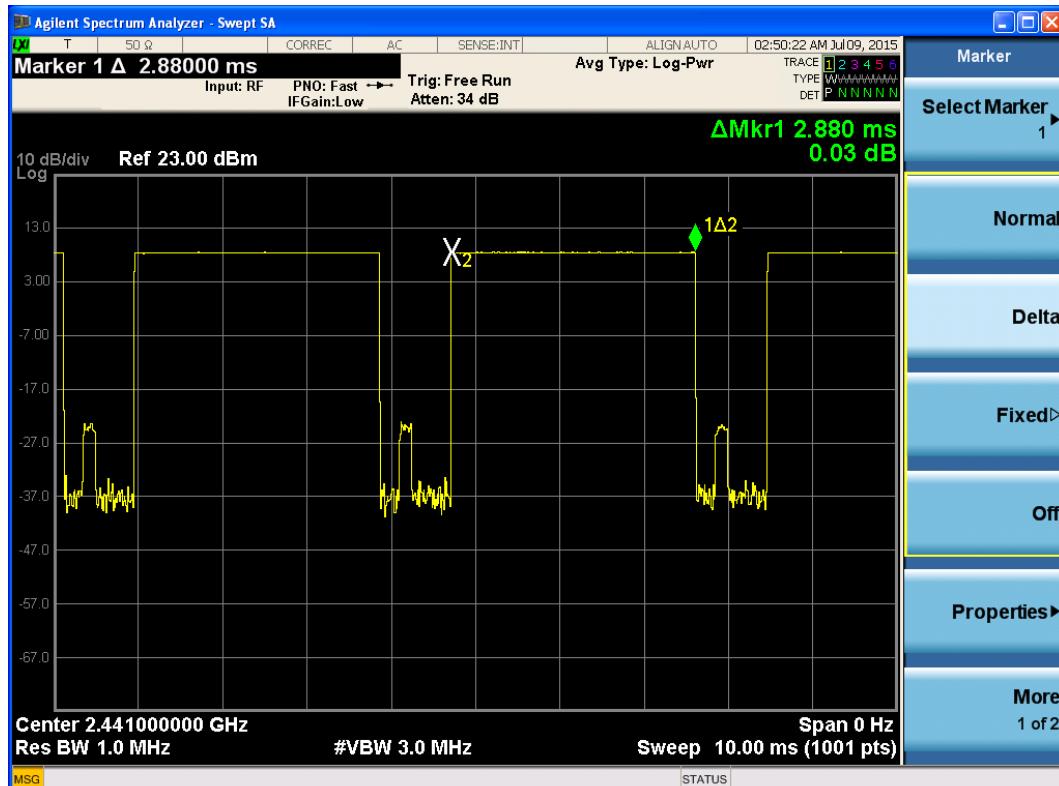
Test Report

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Carrier frequency (MHz): 2441.DH3



Carrier frequency (MHz): 2441.DH5

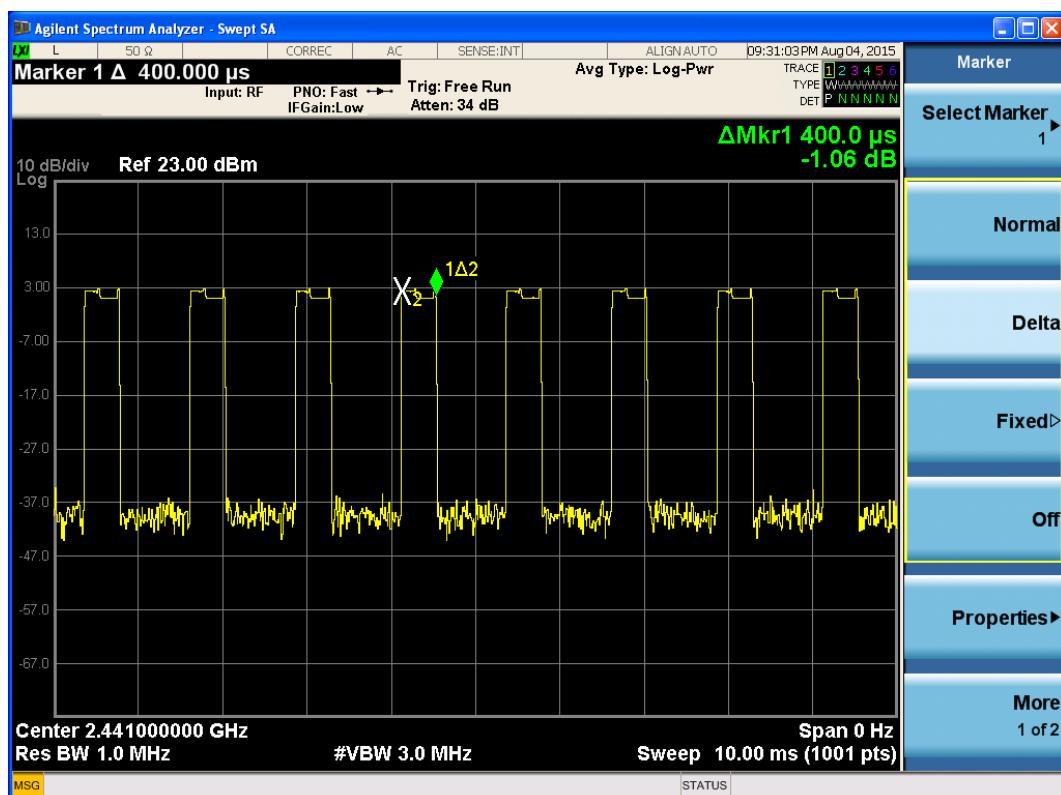
TA Technology (Shanghai) Co., Ltd.
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| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| 2DH1 | 1600 | 0.40 | 256 | 400 | PASS |
| 2DH3 | 533.33 | 1.65 | 352 | 400 | PASS |
| 2DH5 | 320 | 2.89 | 369.92 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s

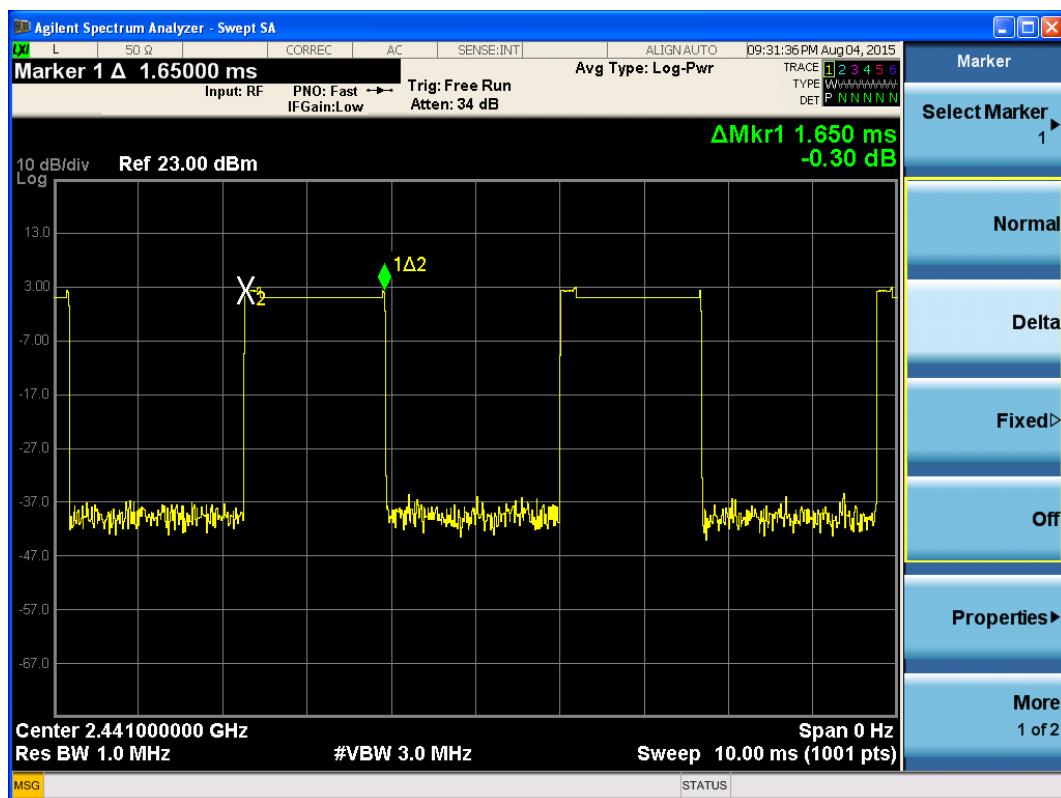


Carrier frequency (MHz): 2441.2DH1

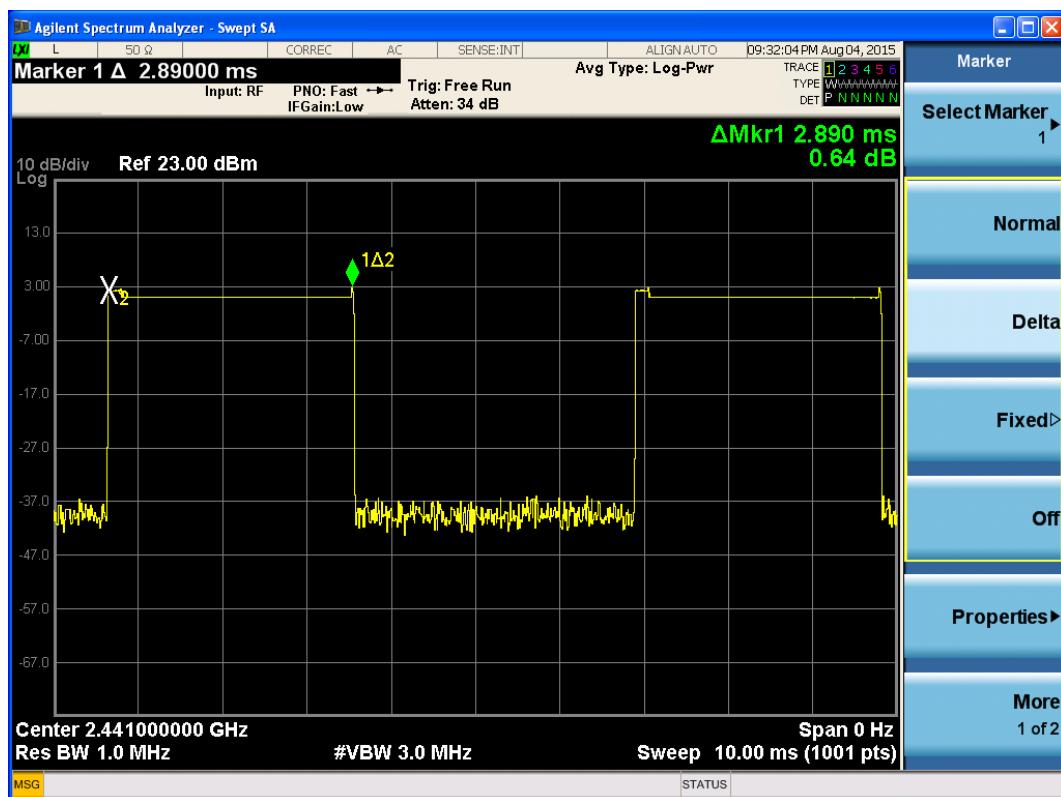
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Carrier frequency (MHz): 2441.2DH3



Carrier frequency (MHz): 2441.2DH5

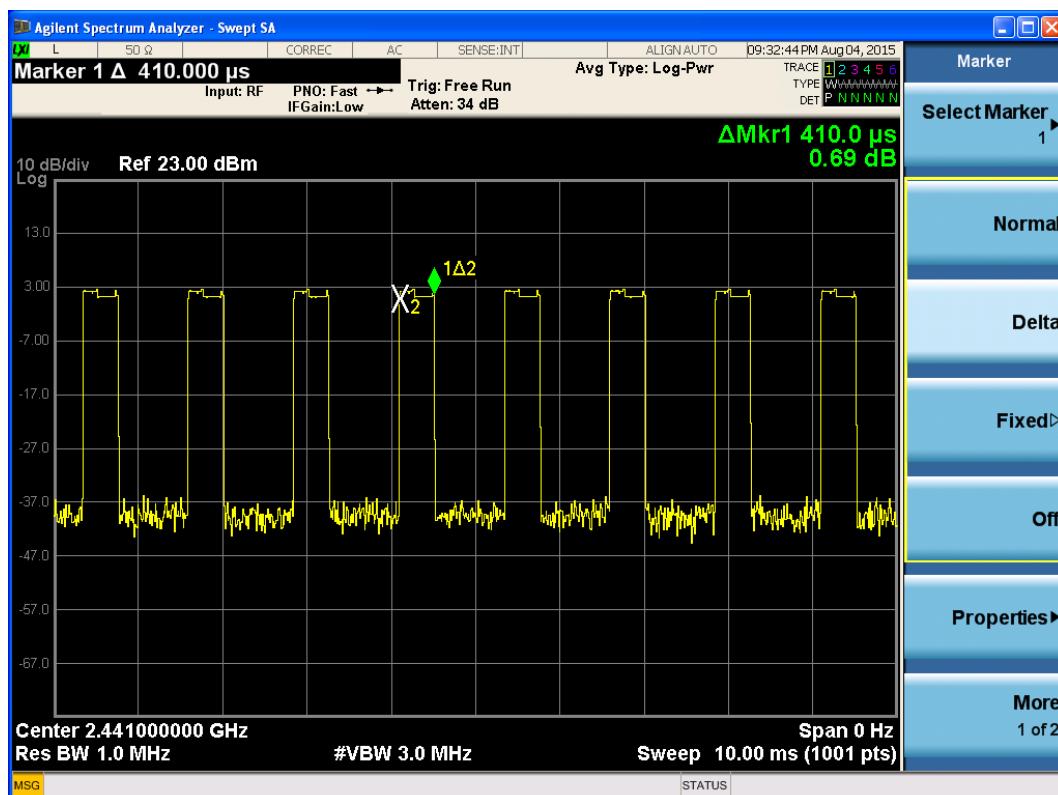
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Test Report

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| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| 3DH1 | 1600 | 0.41 | 262.4 | 400 | PASS |
| 3DH3 | 533.33 | 1.65 | 352 | 400 | PASS |
| 3DH5 | 320 | 2.90 | 371.2 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s

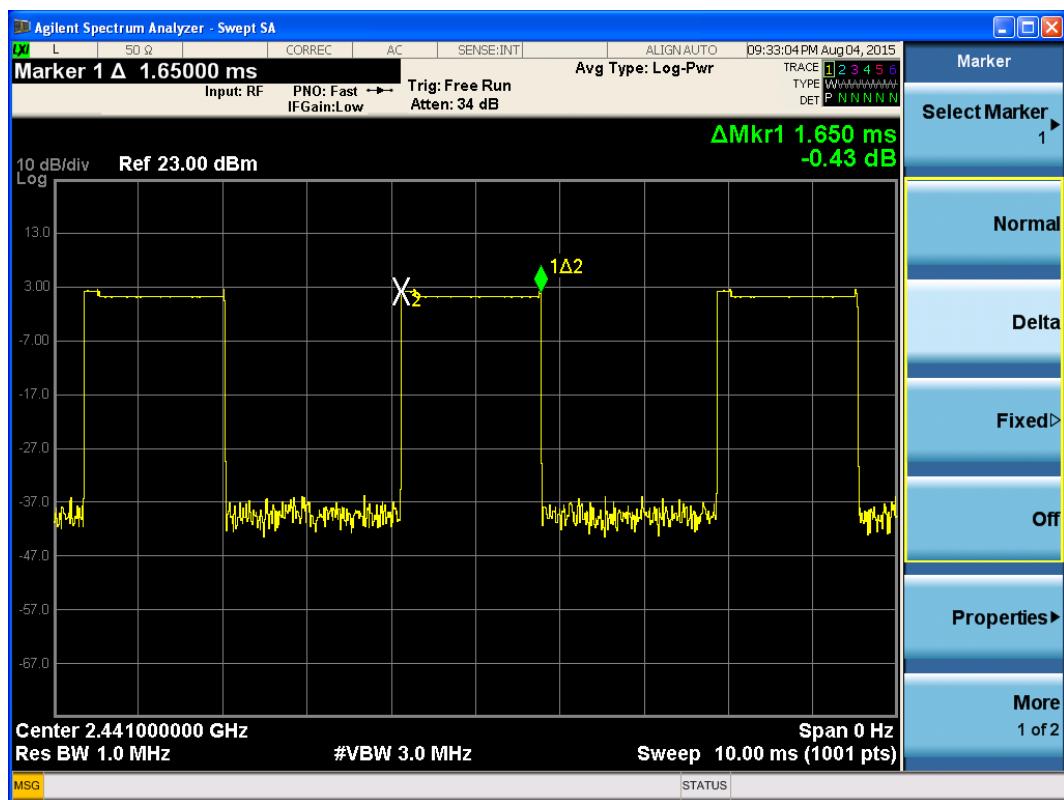


Carrier frequency (MHz): 2441.3DH1

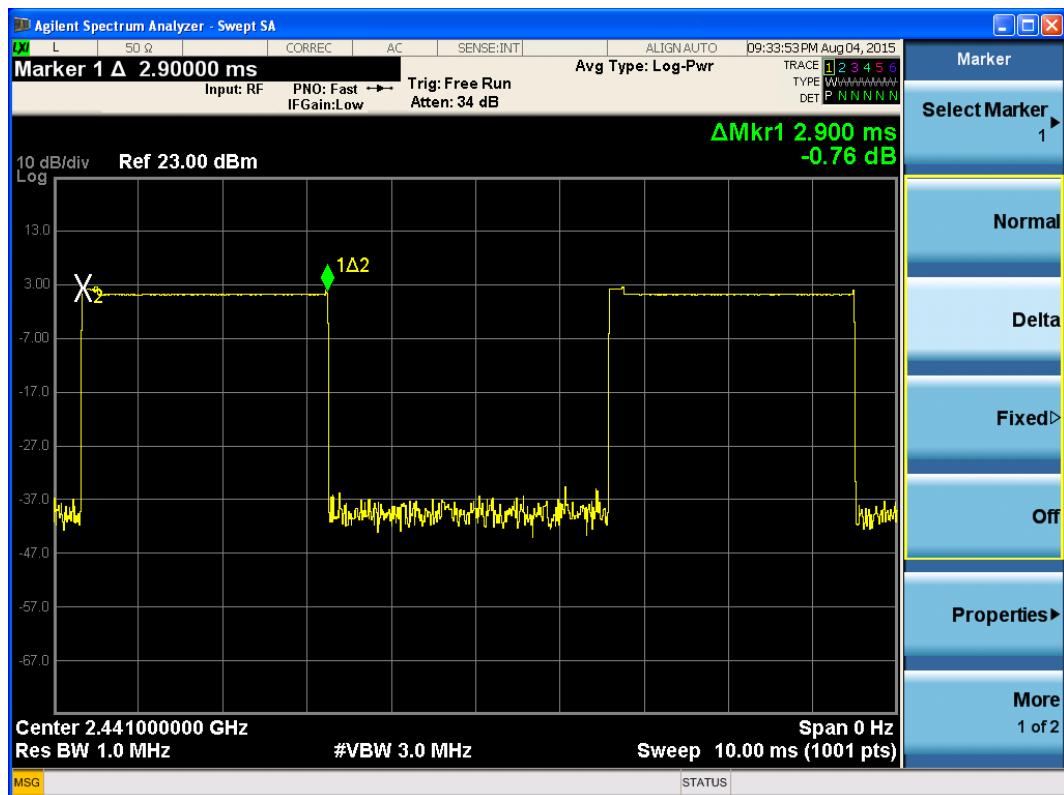
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Carrier frequency (MHz): 2441.3DH3



Carrier frequency (MHz): 2441.3DH5

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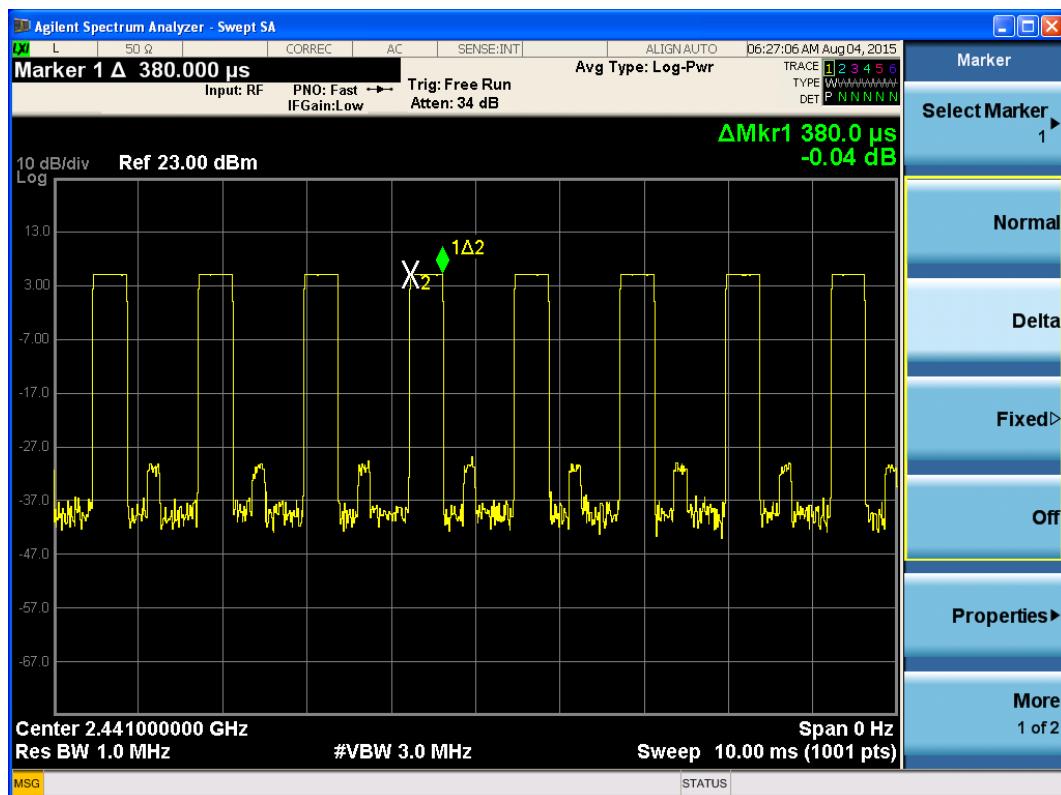
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Left Ear

CH 39

| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| DH1 | 1600 | 0.38 | 243.2 | 400 | PASS |
| DH3 | 533.33 | 1.64 | 349.86 | 400 | PASS |
| DH5 | 320 | 2.89 | 369.92 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s

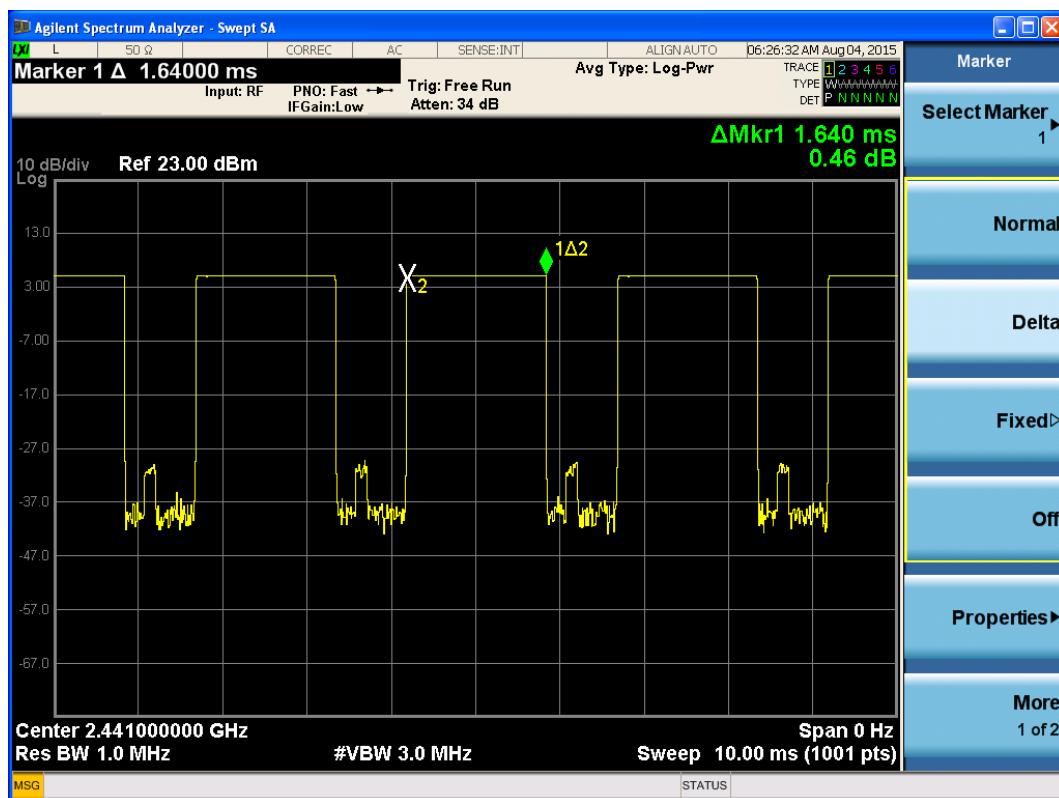


Carrier frequency (MHz): 2441.DH1

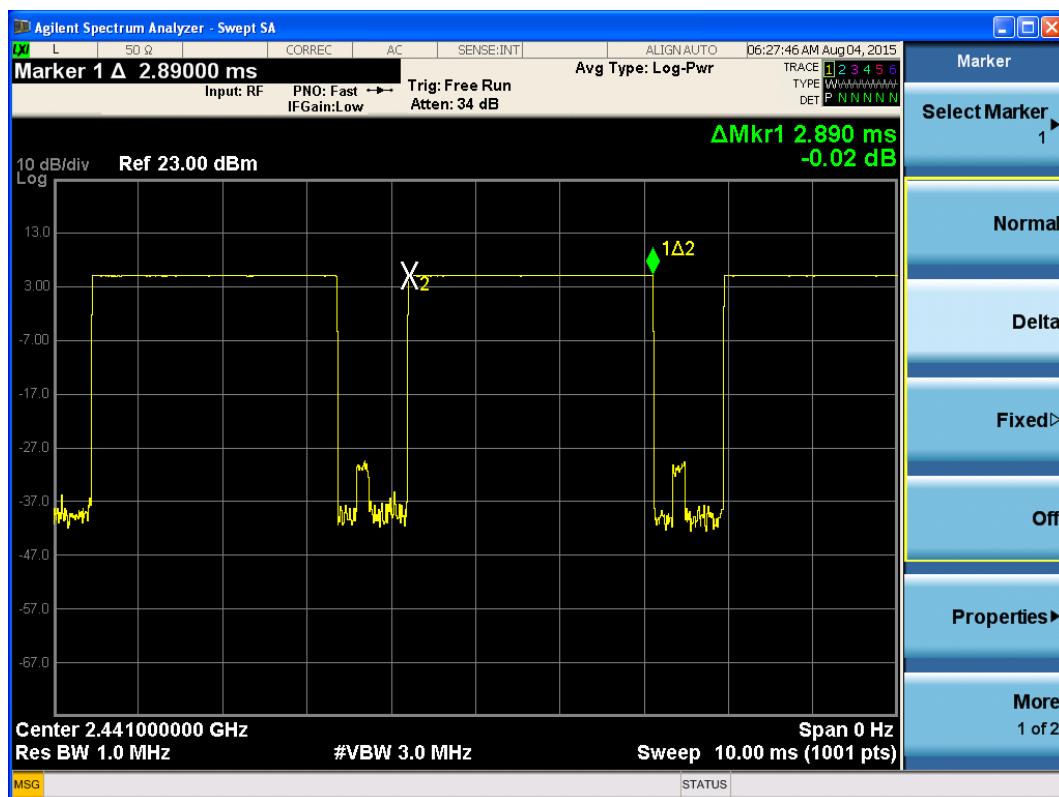
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Report No.: RXA1504-0052RF

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Carrier frequency (MHz): 2441.DH3



Carrier frequency (MHz): 2441.DH5

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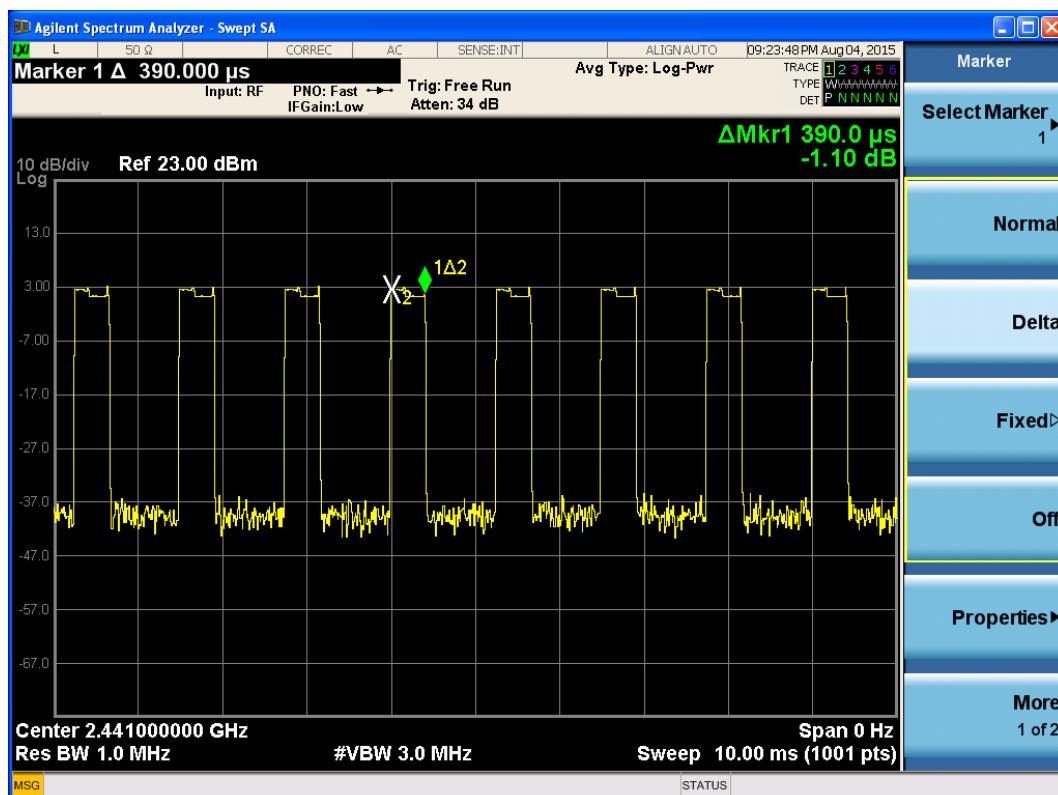
Test Report

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| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| 2DH1 | 1600 | 0.39 | 249.60 | 400 | PASS |
| 2DH3 | 533.33 | 1.66 | 354.13 | 400 | PASS |
| 2DH5 | 320 | 2.91 | 372.48 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s

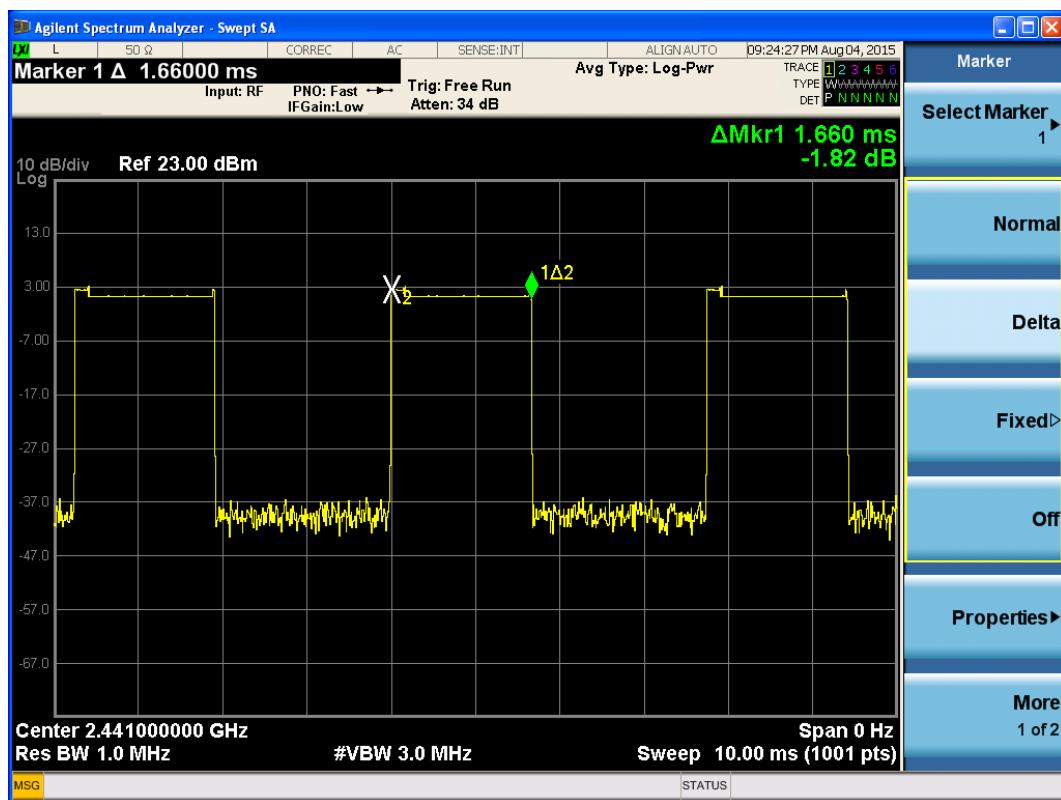


Carrier frequency (MHz): 2441.2DH1

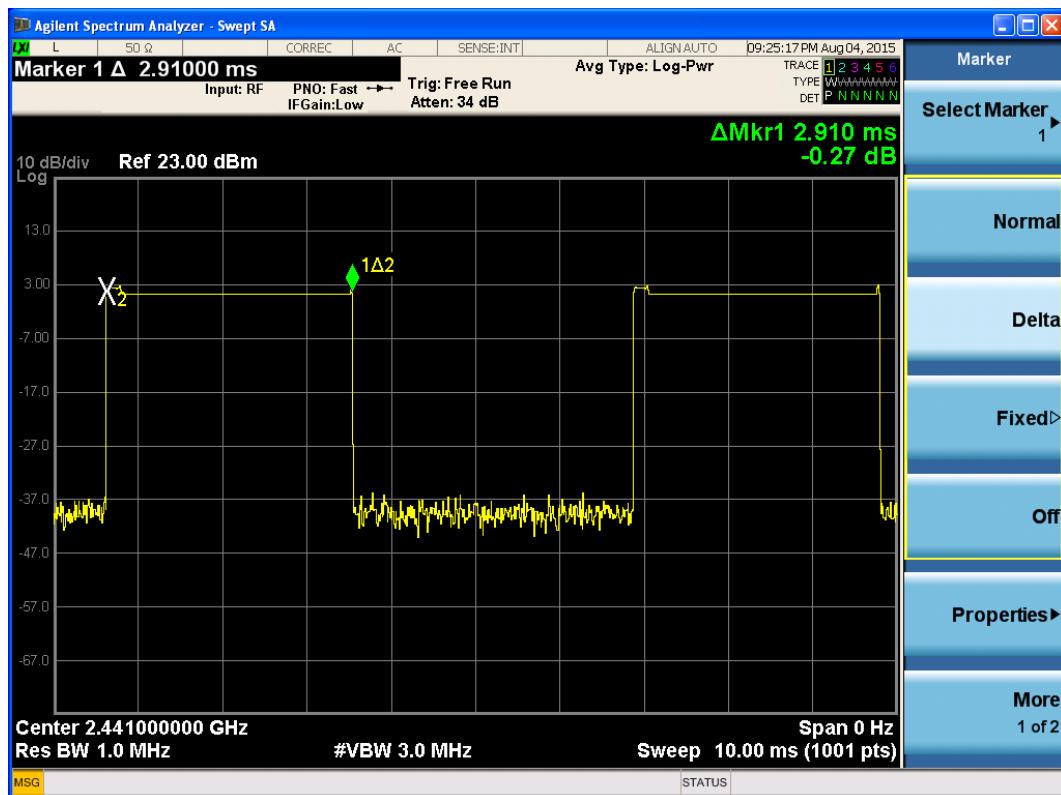
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Carrier frequency (MHz): 2441.2DH3



Carrier frequency (MHz): 2441.2DH5

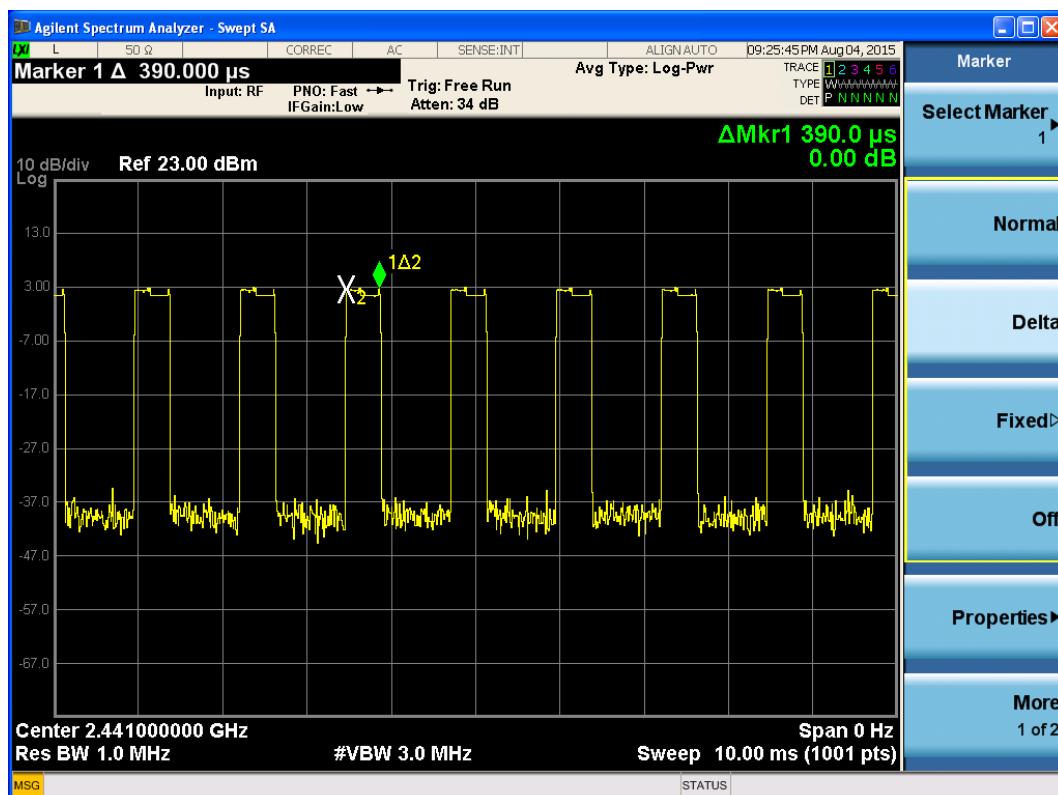
TA Technology (Shanghai) Co., Ltd.
Test Report

Report No.: RXA1504-0052RF

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| Packet type | hop rate (1/s) | Time slot length(ms) | Dwell time (ms) | Limit (ms) | Conclusion |
|-------------|-------------------|-------------------------|--------------------|---------------|------------|
| 3DH1 | 1600 | 0.39 | 249.6 | 400 | PASS |
| 3DH3 | 533.33 | 1.65 | 352 | 400 | PASS |
| 3DH5 | 320 | 2.9 | 371.2 | 400 | PASS |

Note: Dwell time = time slot length * hop rate * 0.4s

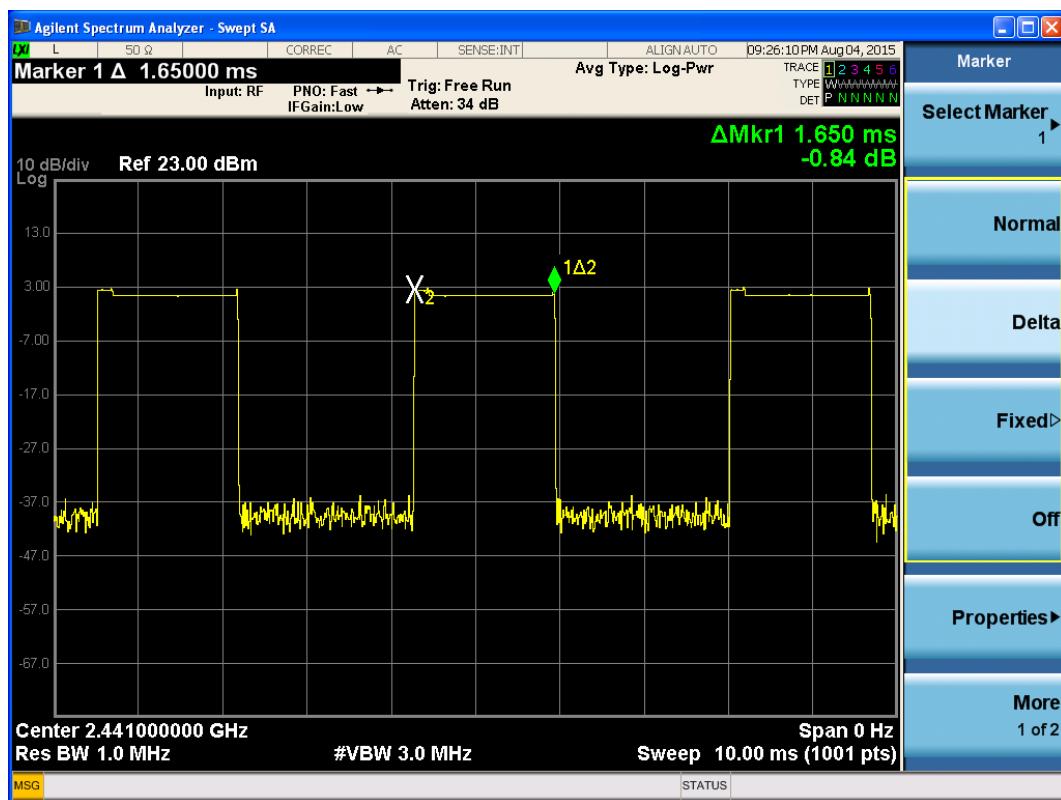


Carrier frequency (MHz): 2441.3DH1

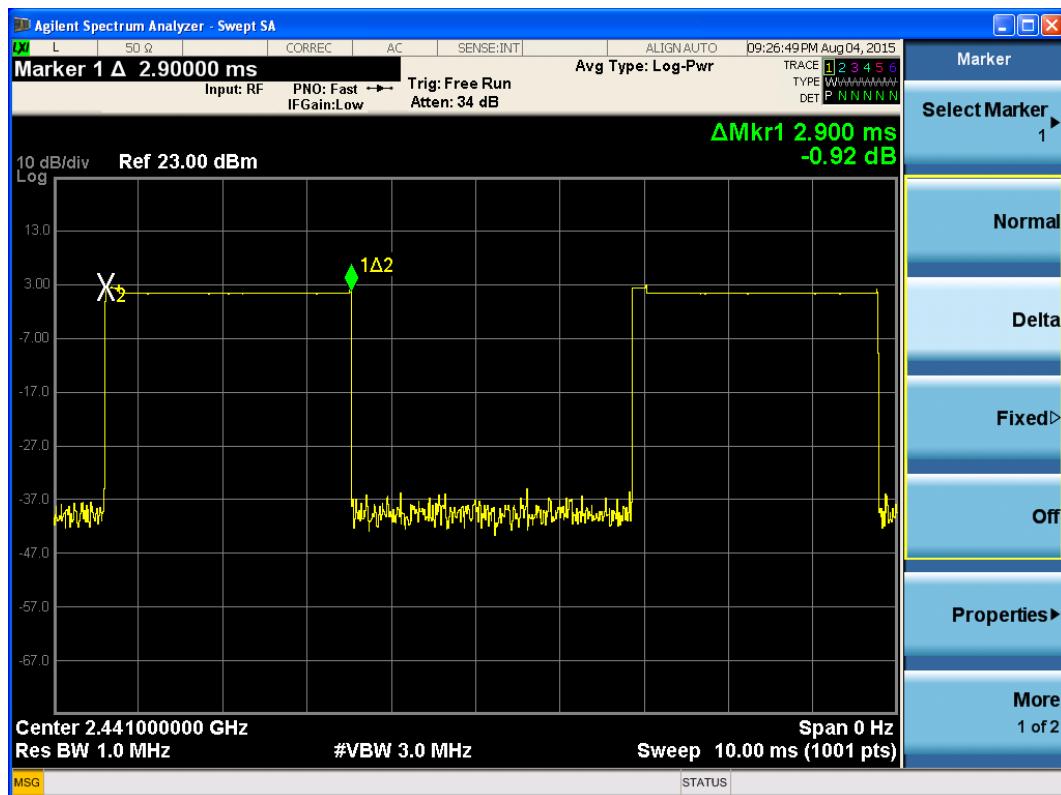
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Carrier frequency (MHz): 2441.3DH3



Carrier frequency (MHz): 2441.3DH5

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Test Report

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3.7. Band Edge Compliance

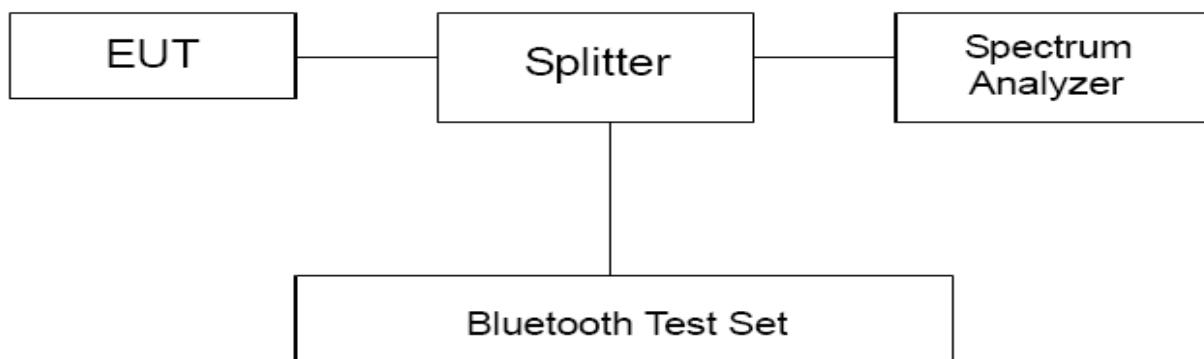
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The lowest and highest channels were measured. The peak detector is used. RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. EUT test for Hopping On mode and Hopping Off mode.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|-----------|-------------|
| 2GHz-3GHz | 1.407 dB |

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Test Report

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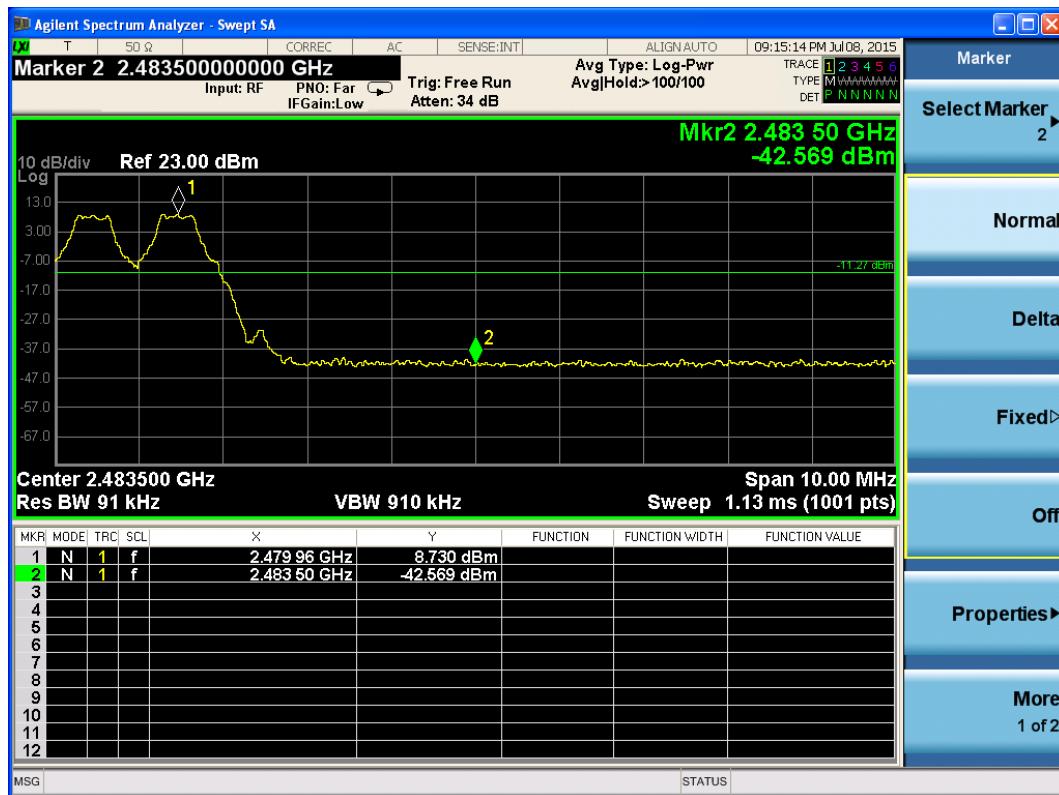
Test Results: PASS

Right Ear

Hopping On-DH5-



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH:78

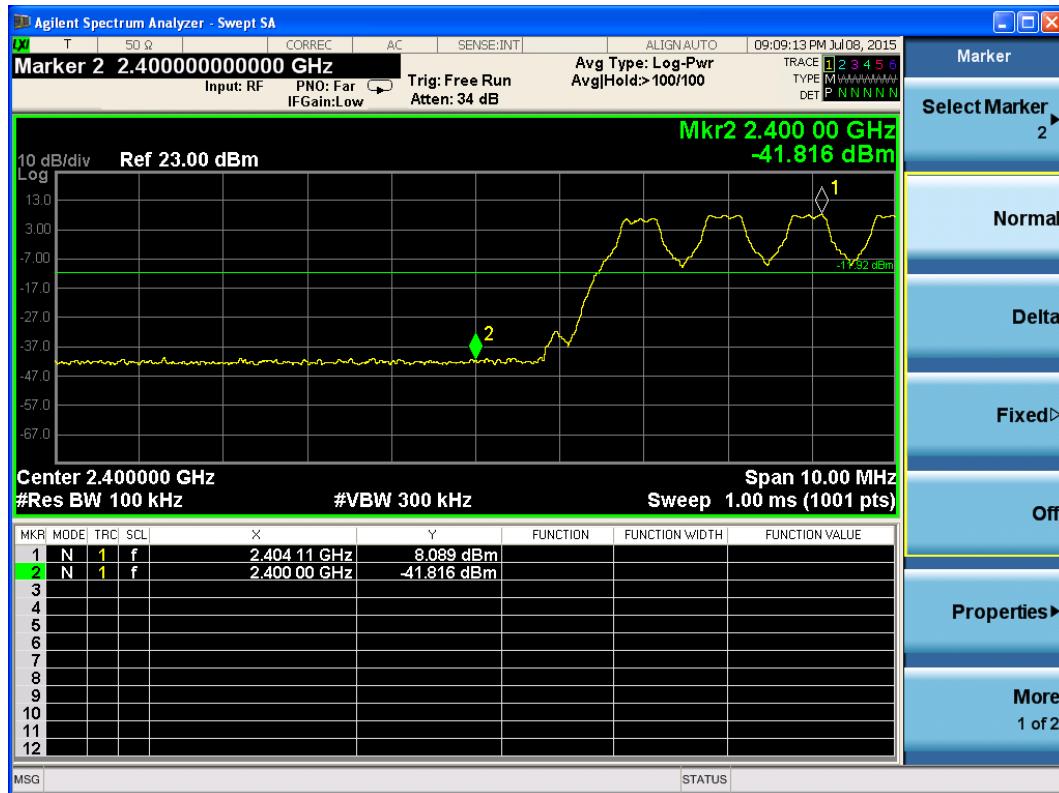
TA Technology (Shanghai) Co., Ltd.

Test Report

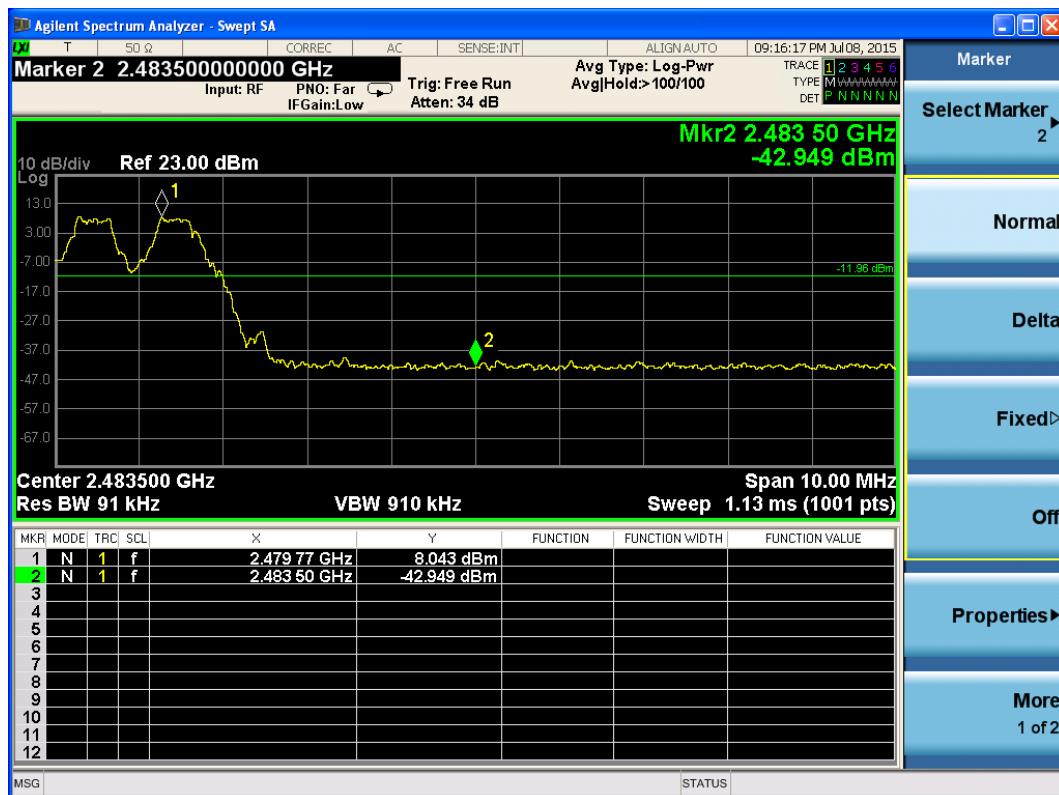
Report No.: RXA1504-0052RF

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Hopping On-2DH5



Carrier frequency (MHz): 2402
Channel No.:0



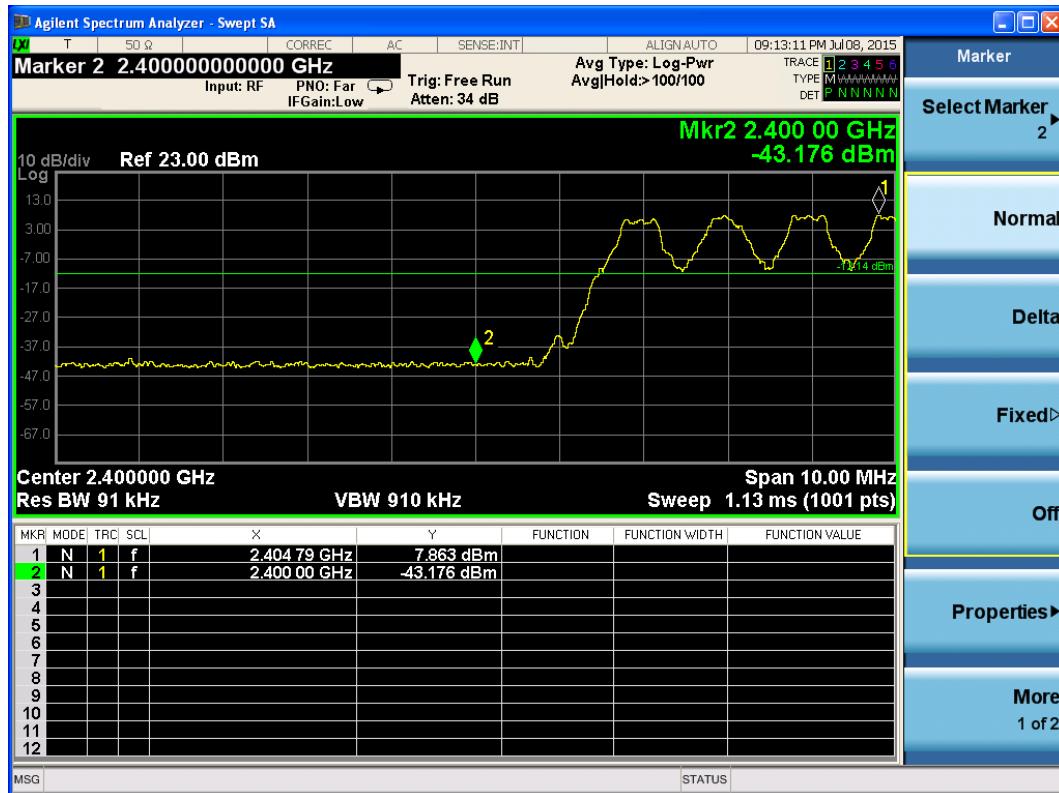
Carrier frequency (MHz): 2480
Channel No.:78

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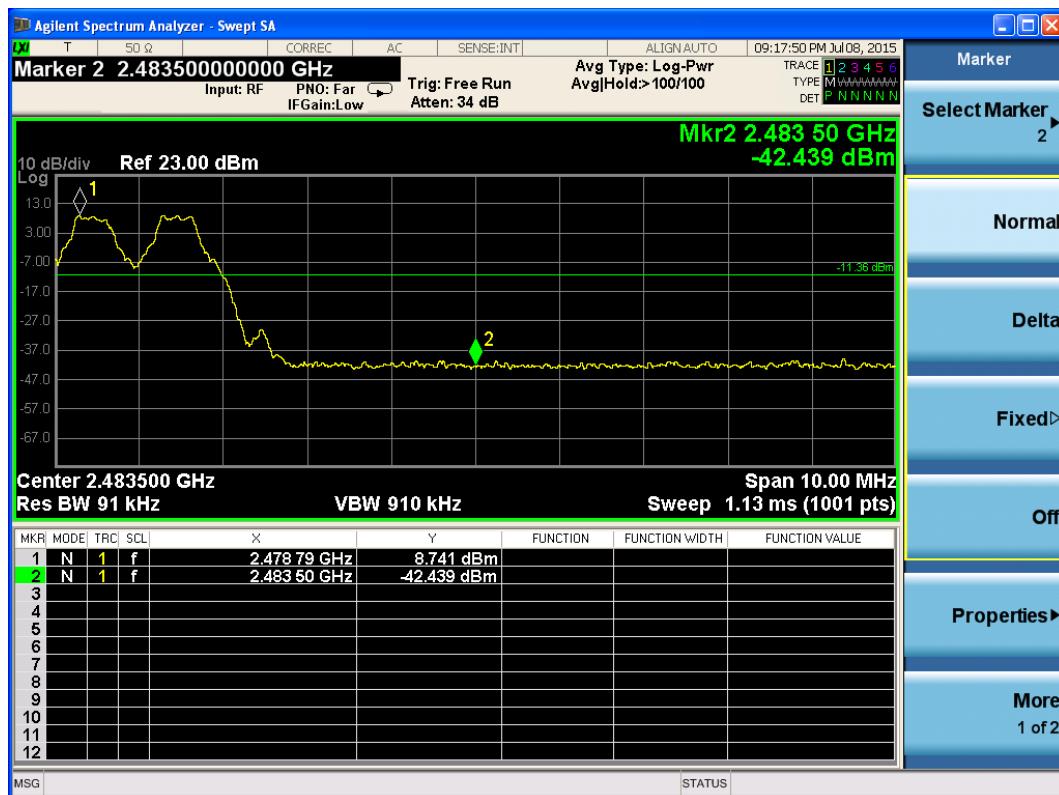
Report No.: RXA1504-0052RF

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Hopping On-3DH5



Carrier frequency (MHz): 2402
Channel No.:0



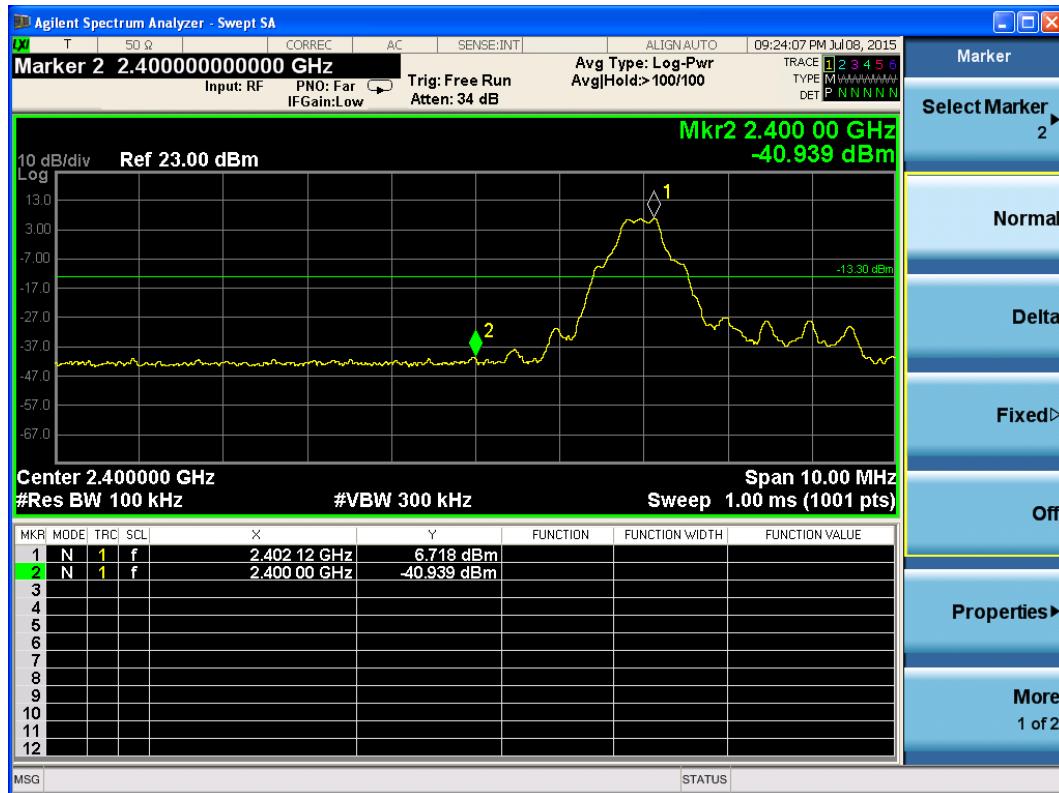
Carrier frequency (MHz): 2480
Channel No.:78

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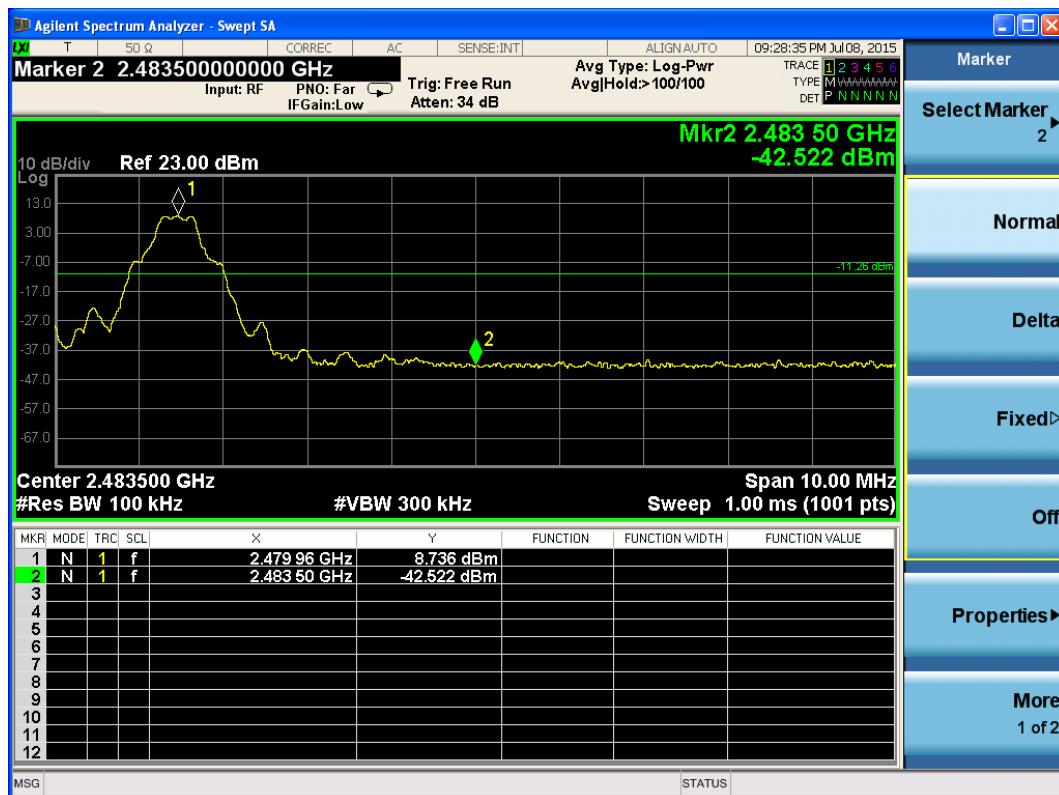
Report No.: RXA1504-0052RF

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Hopping Off-DH5-



Carrier frequency (MHz): 2402
Channel No.:0



Carrier frequency (MHz): 2480
Channel No.:78

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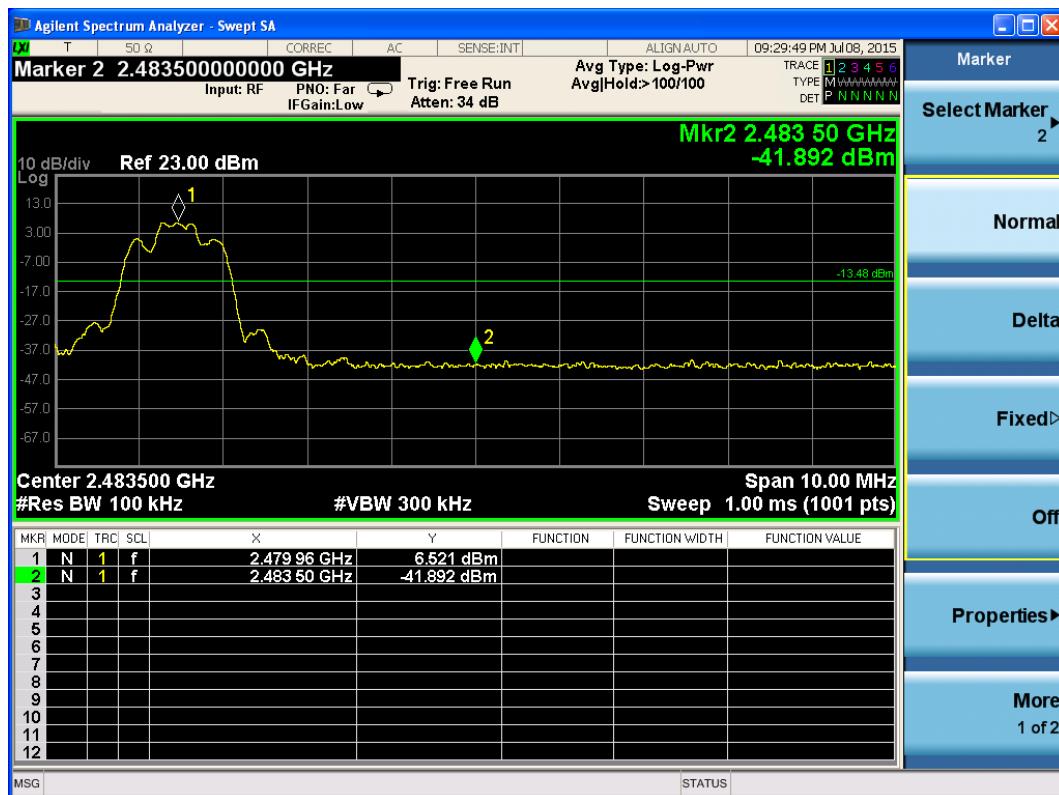
Report No.: RXA1504-0052RF

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Hopping Off-2DH5



Carrier frequency (MHz): 2402
Channel No.:0



Carrier frequency (MHz): 2480
Channel No.:78

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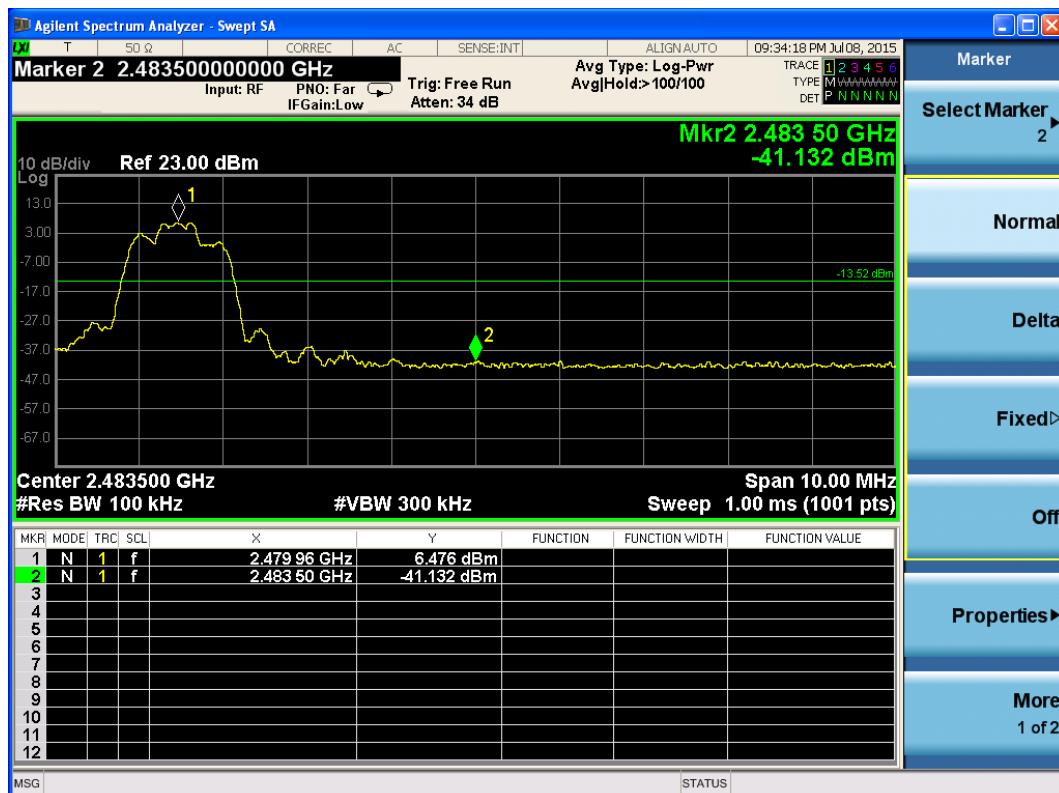
Report No.: RXA1504-0052RF

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Hopping Off-3DH5



Carrier frequency (MHz): 2402
Channel No.:0



Carrier frequency (MHz): 2480
Channel No.:78

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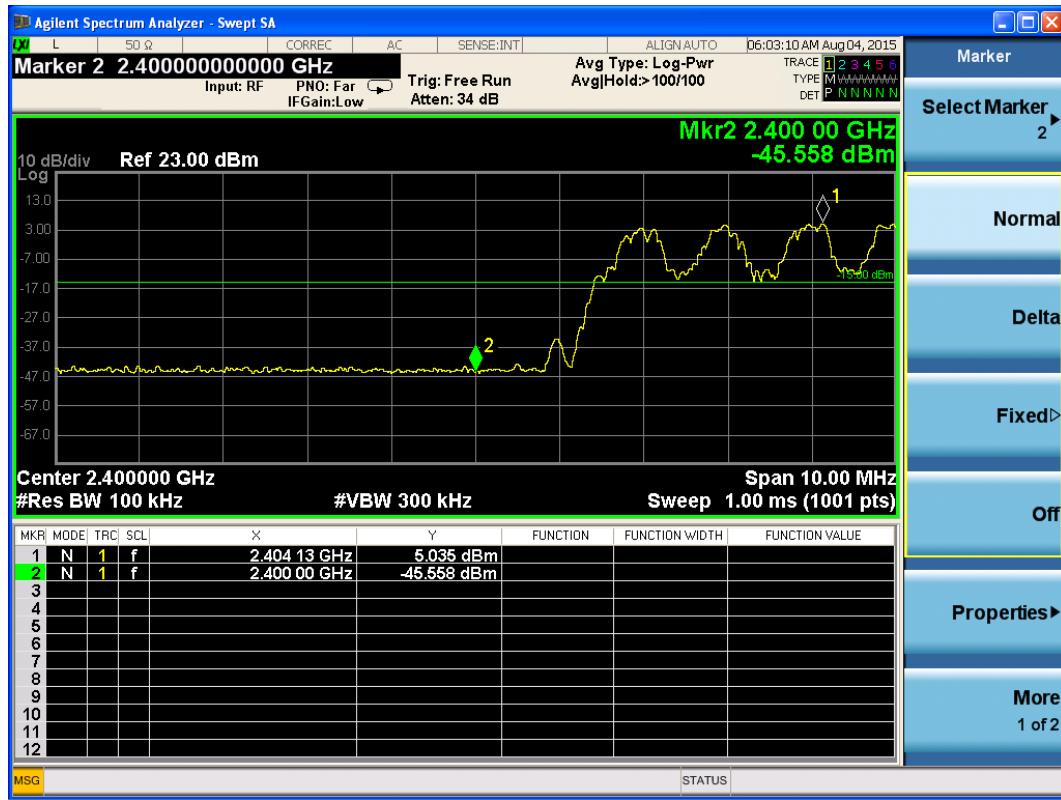
Test Report

Report No.: RXA1504-0052RF

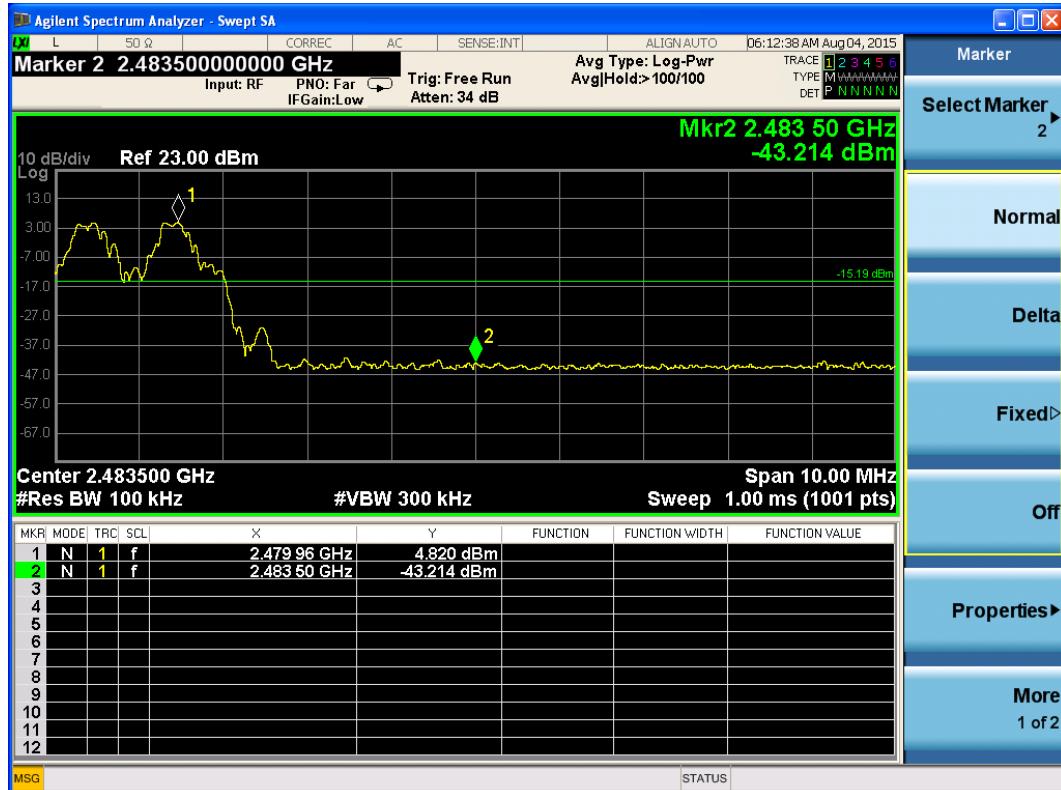
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Left Ear

Hopping On-DH5-



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

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Hopping On-2DH5



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

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Test Report

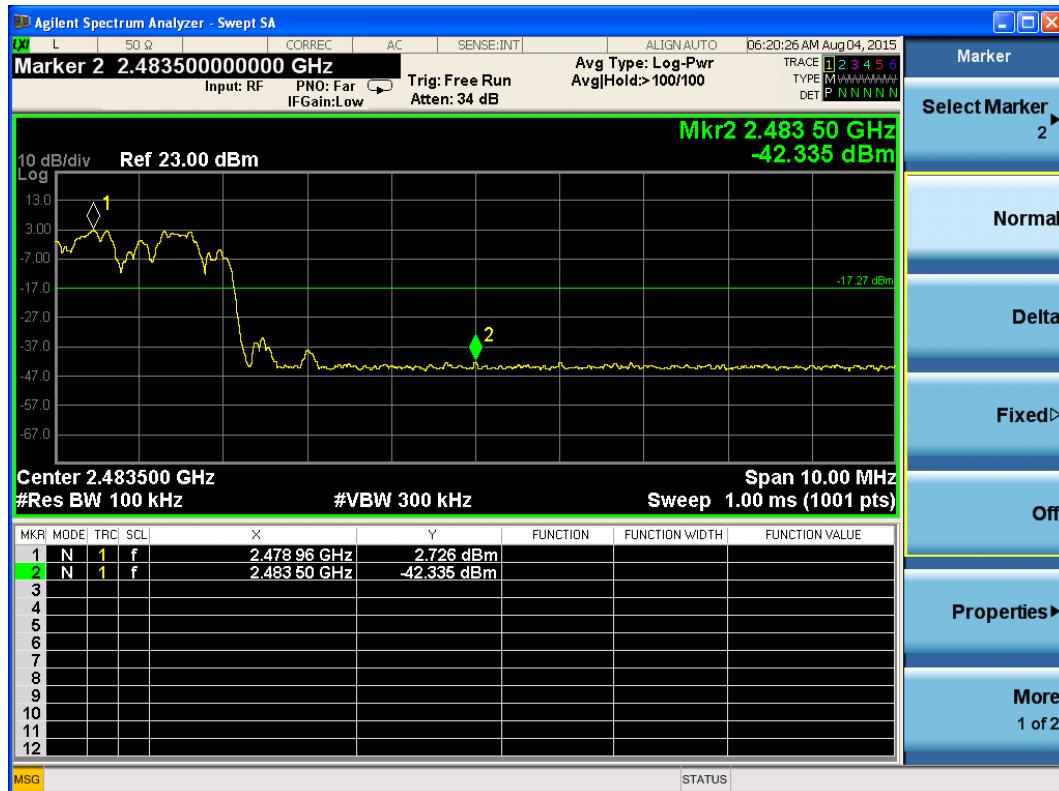
Report No.: RXA1504-0052RF

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Hopping On-3DH5



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

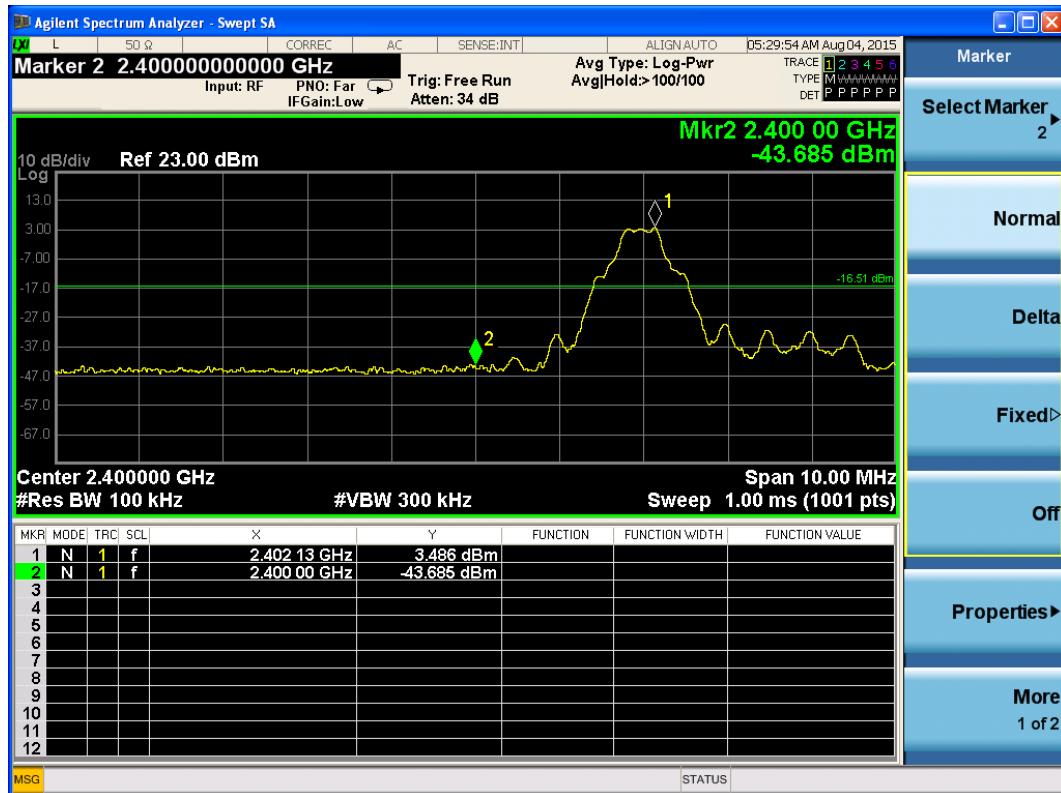
TA Technology (Shanghai) Co., Ltd.

Test Report

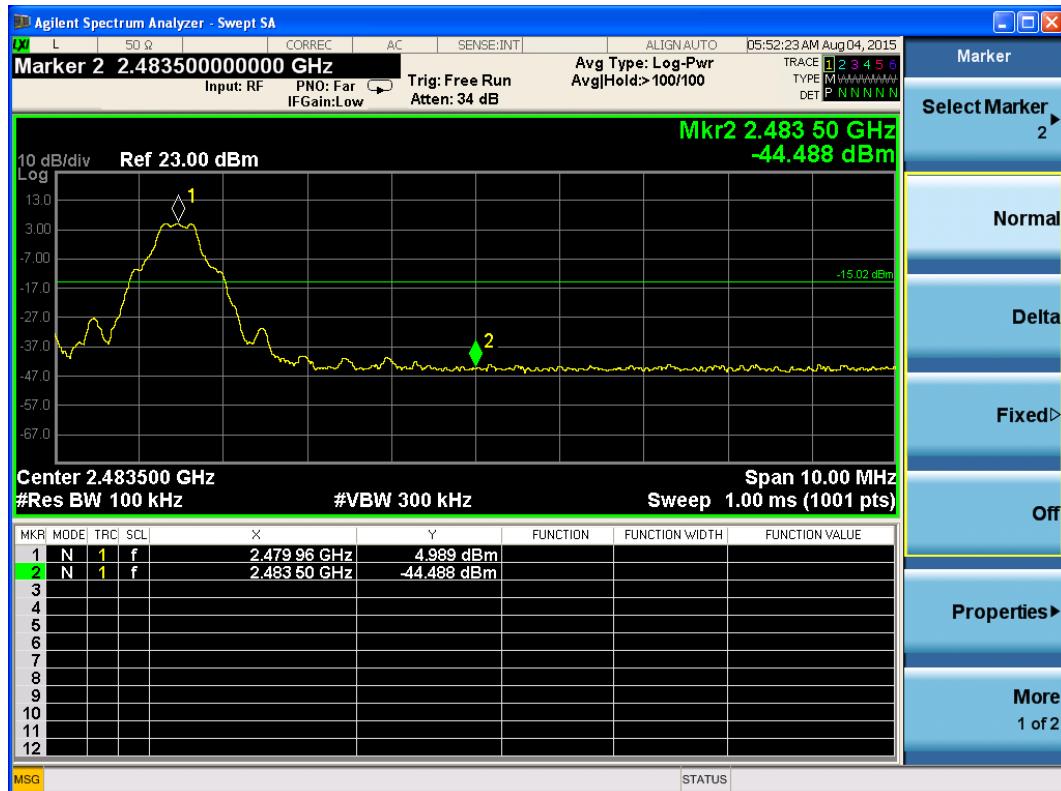
Report No.: RXA1504-0052RF

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Hopping Off-DH5-



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

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Hopping Off-2DH5



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

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Hopping Off-3DH5



Carrier frequency (MHz): 2402 CH0



Carrier frequency (MHz): 2480 CH78

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3.8. Spurious Radiated Emissions in the Restricted Band

Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

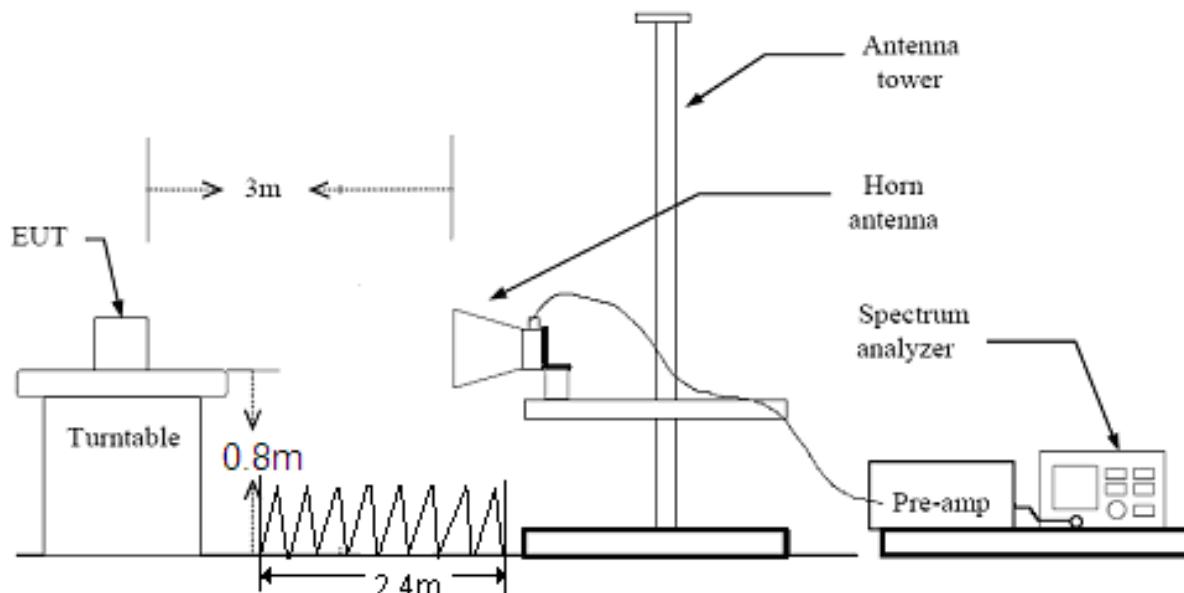
(b) The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak- average correction factor, derived from the appropriate duty cycle calculation.

This setting method can refer to **DA00-705**.

The test is in transmitting mode. The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis) and docking mode. The worst emission was found in stand-up position (Y axis) and the worst case was recorded.

Test setup



Note: Area side:2.4mX3.6m

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Limits

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

Limit in restricted band

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above960 | 500 | 54 |

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

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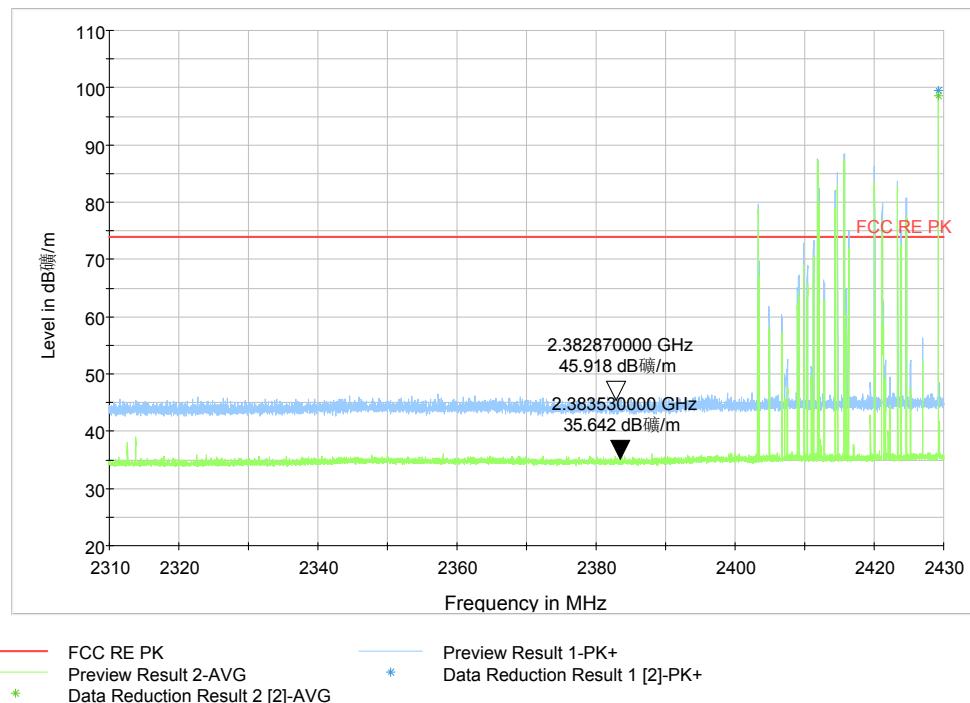
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Test Results:

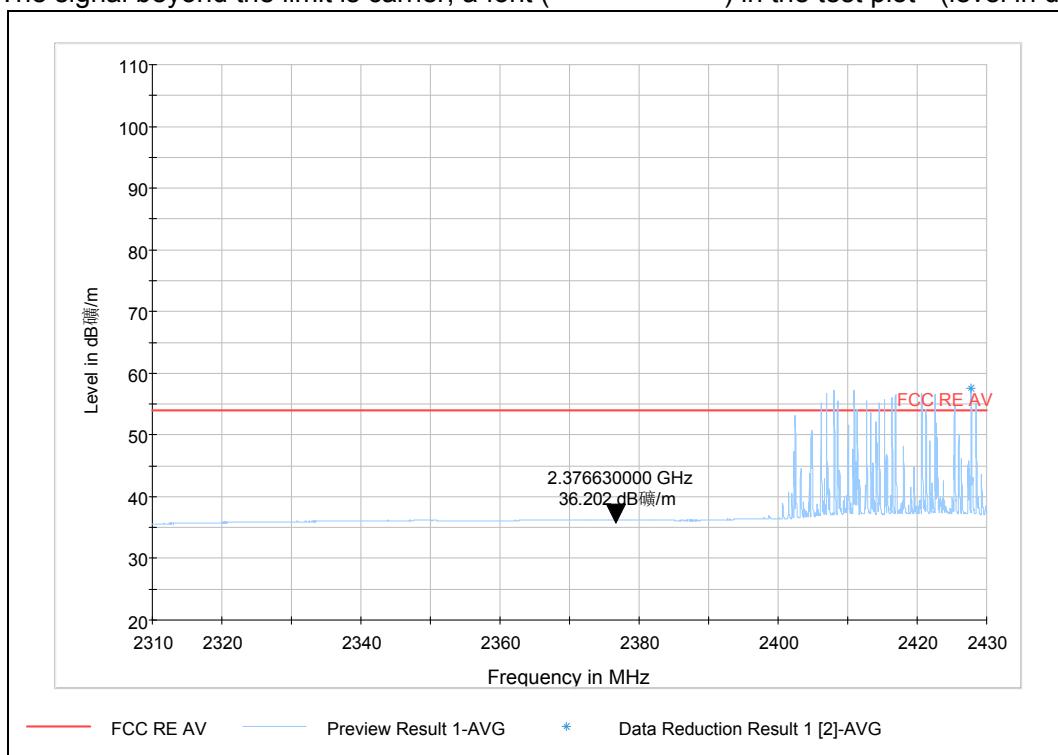
Pre-tests are at the presence of the left ear and right ear, the right ear is the worst case condition, only the worst case result is recorded.

DH5- Channel 0



lower band edge Peak-CH 0

Note: The signal beyond the limit is carrier, a font ($\text{Level in dB}_{\text{m}}$) in the test plot =(level in dBuV/m)



lower band edge average-CH 0

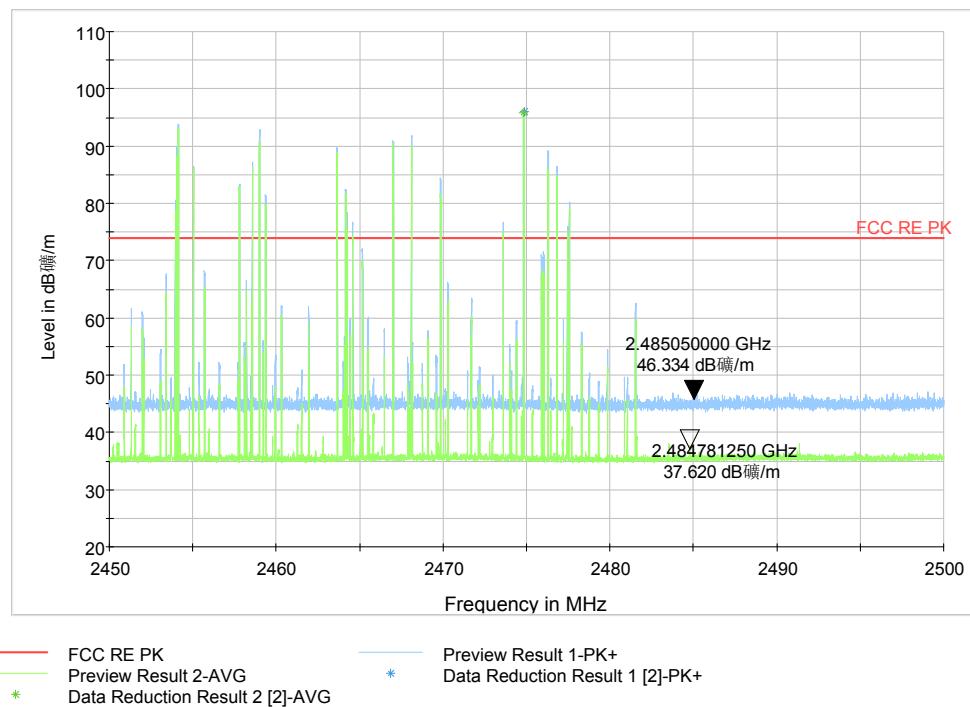
Note: The signal beyond the limit is carrier, a font ($\text{Level in dB}_{\text{m}}$) in the test plot =(level in dBuV/m)

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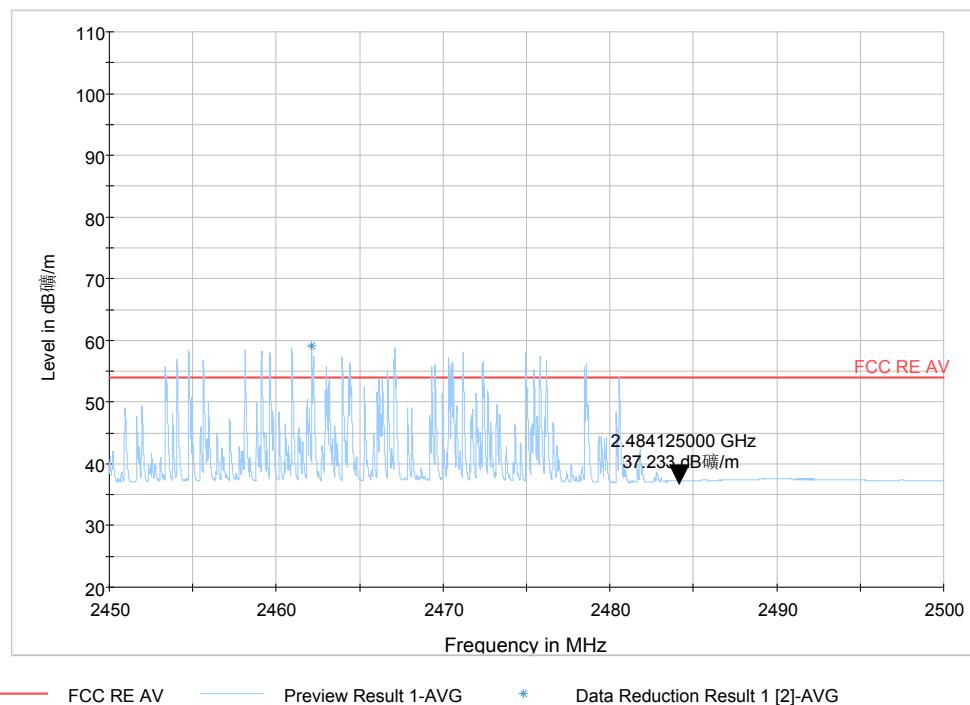
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DH5- Channel 78



Higher band edge Peak-CH 78

Note: The signal beyond the limit is carrier, a font (Level in dB_{礦/m}) in the test plot =(level in dBuV/m)



Higher band edge average-CH 78

Note: The signal beyond the limit is carrier, a font (Level in dB_{礦/m}) in the test plot =(level in dBuV/m)

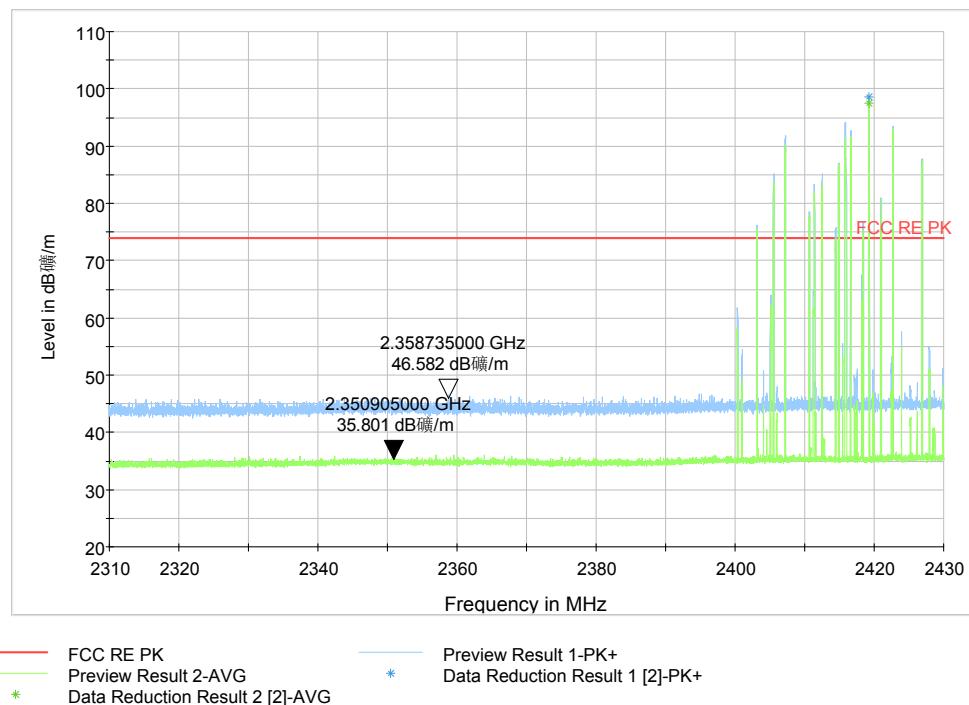
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Report No.: RXA1504-0052RF

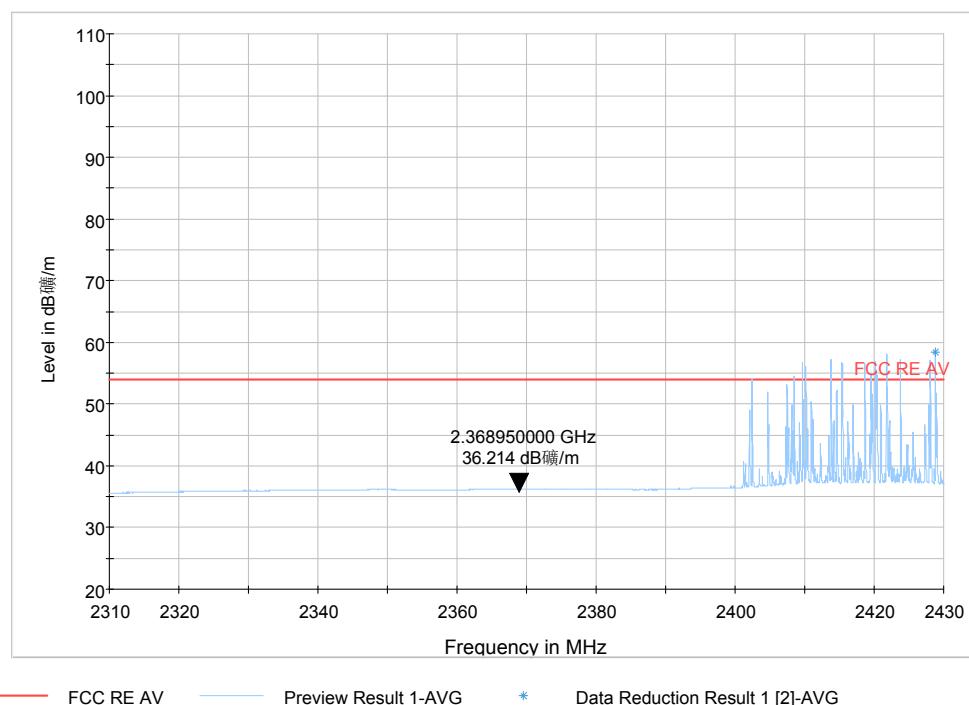
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3DH5- Channel 0



lower band edge Peak-CH 0

Note: The signal beyond the limit is carrier, a font (Level in dB_礦/m) in the test plot =(level in dB_{uV}/m)



lower band edge average-CH 0

Note: The signal beyond the limit is carrier, a font (Level in dB_礦/m) in the test plot =(level in dB_{uV}/m)

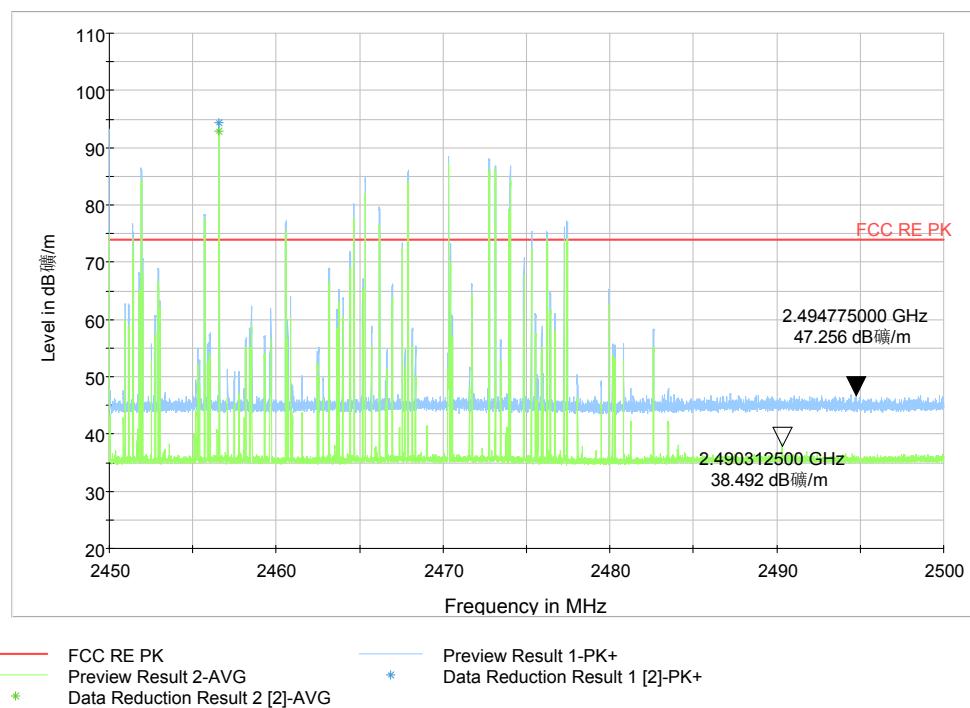
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Test Report

Report No.: RXA1504-0052RF

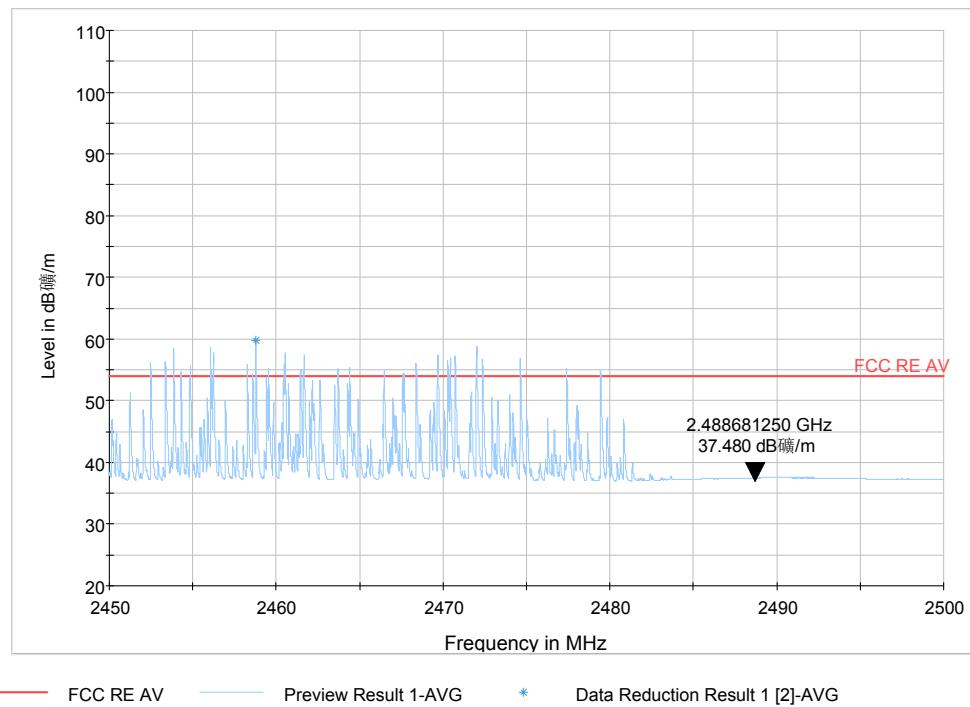
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3DH5- Channel 78



Higher band edge Peak-CH 78

Note: The signal beyond the limit is carrier, a font ($\text{Level in dB}_{\text{礦}}/\text{m}$) in the test plot =(level in dB_UV/m)



Higher band edge average-CH 78

Note: The signal beyond the limit is carrier, a font ($\text{Level in dB}_{\text{礦}}/\text{m}$) in the test plot =(level in dB_UV/m)

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3.9. Number of hopping Frequency

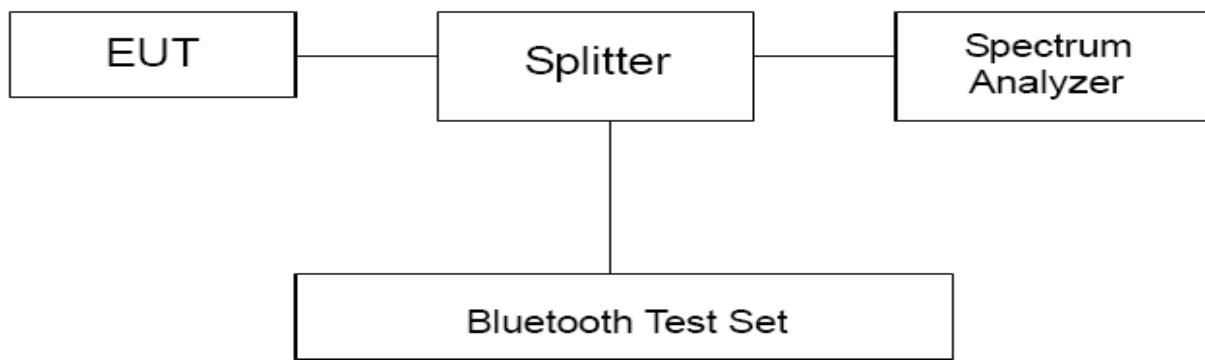
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 1 MHz and VBW is set to 3 MHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

Rule Part 15.247(a) (1) (iii) specifies that "Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels."

| | |
|--------|--------------------|
| Limits | ≥ 15 channels |
|--------|--------------------|

Test Results:

TA Technology (Shanghai) Co., Ltd.

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Right Ear

DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

TA Technology (Shanghai) Co., Ltd.

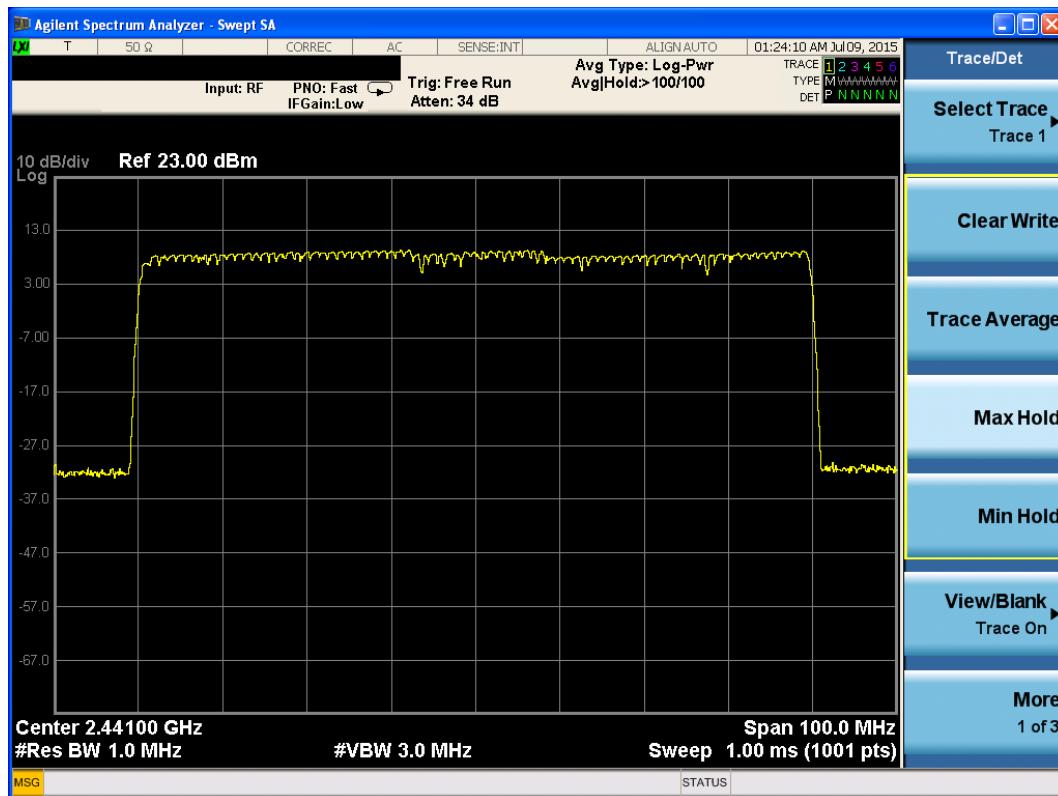
Test Report

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2DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

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3DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

TA Technology (Shanghai) Co., Ltd.

Test Report

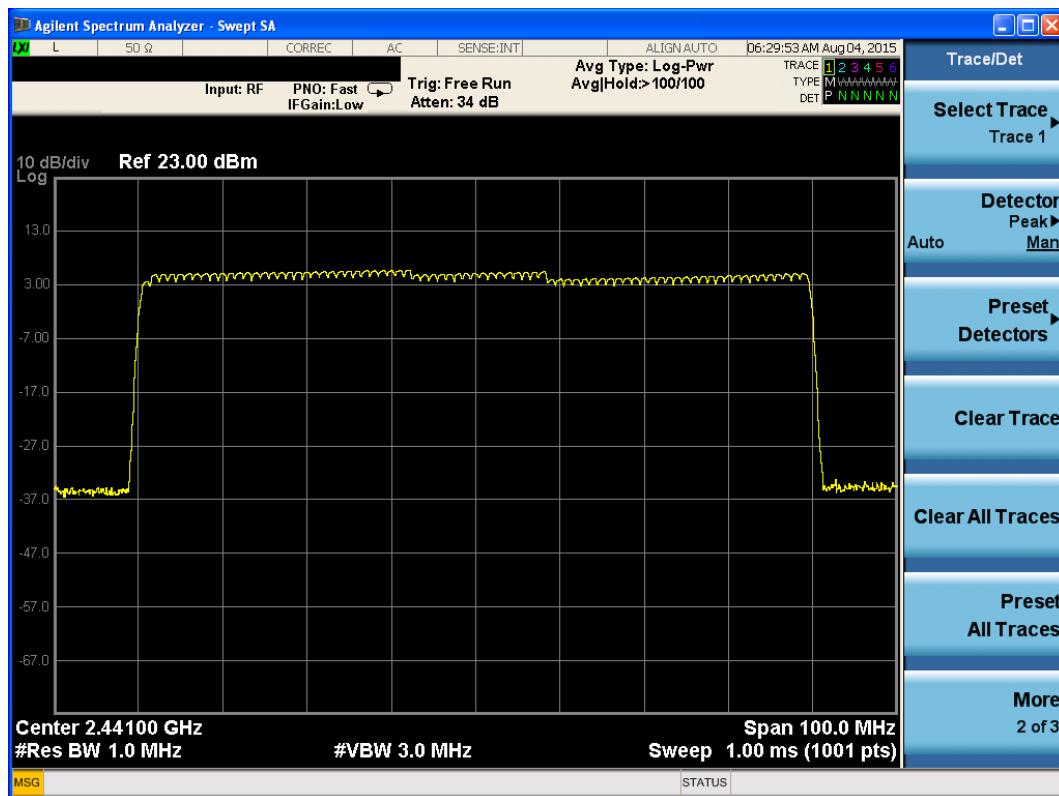
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Left Ear

DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

TA Technology (Shanghai) Co., Ltd.

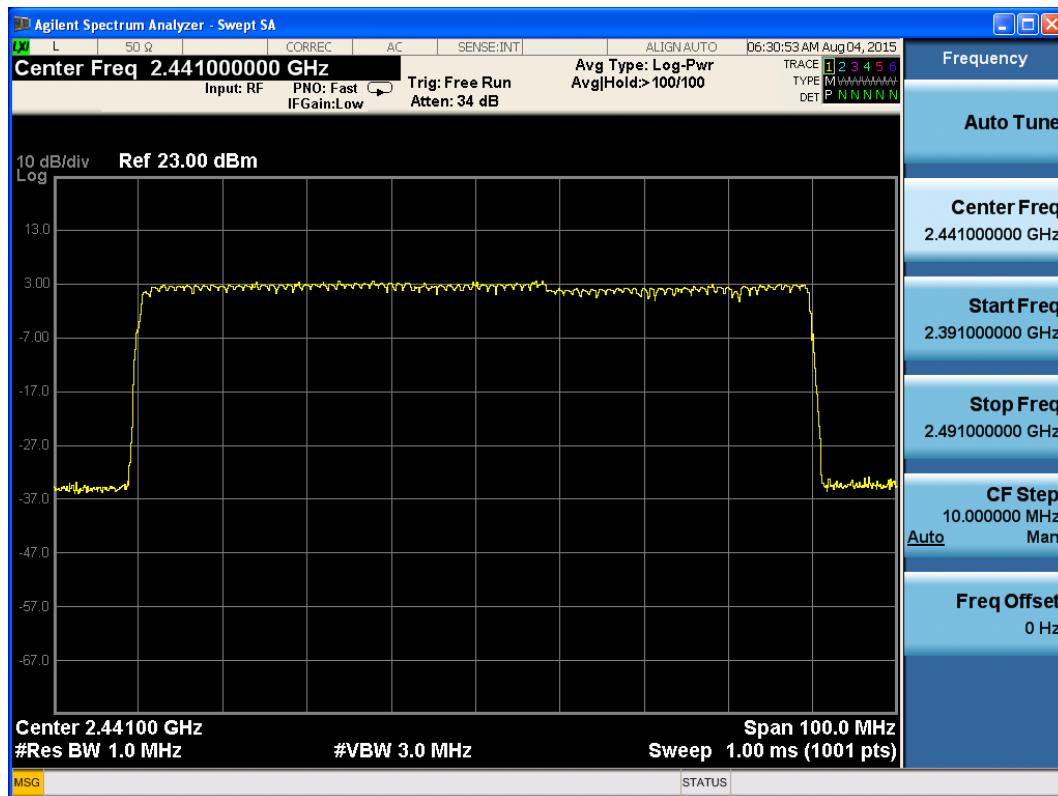
Test Report

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2DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

TA Technology (Shanghai) Co., Ltd.

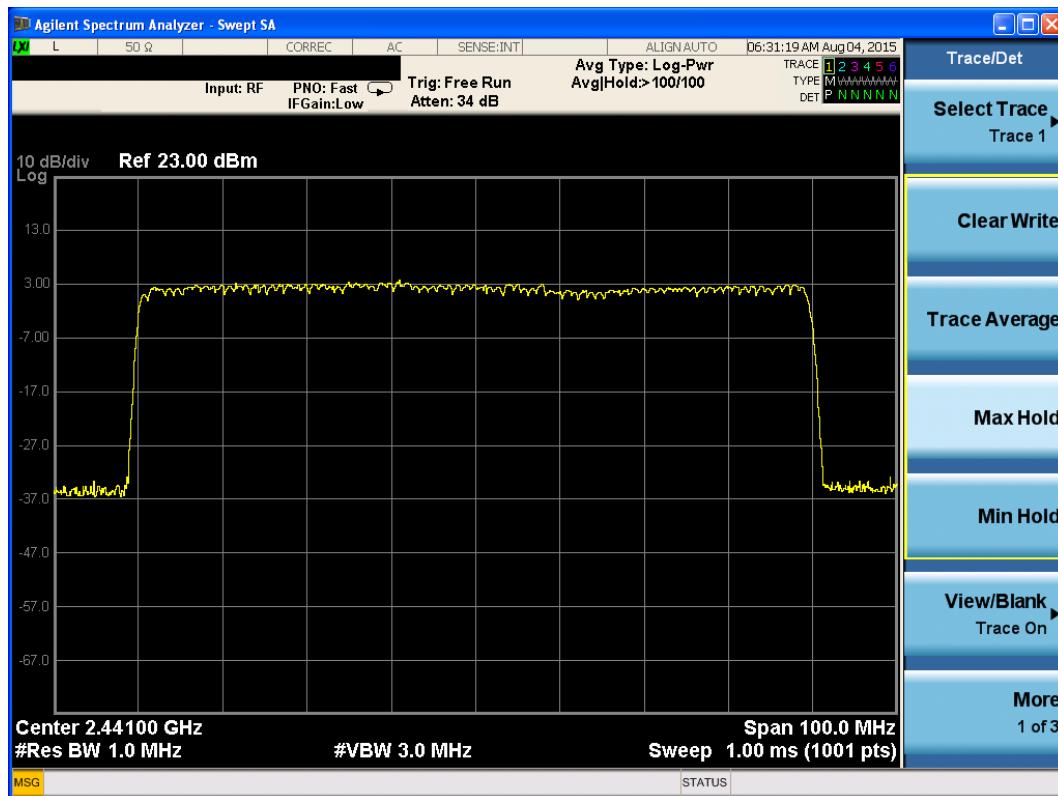
Test Report

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3DH5

| Number of hopping channels | conclusion |
|----------------------------|------------|
| 79 | PASS |



2400 MHz – 2483.5 MHz

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3.10. Spurious RF Conducted Emissions

Ambient condition

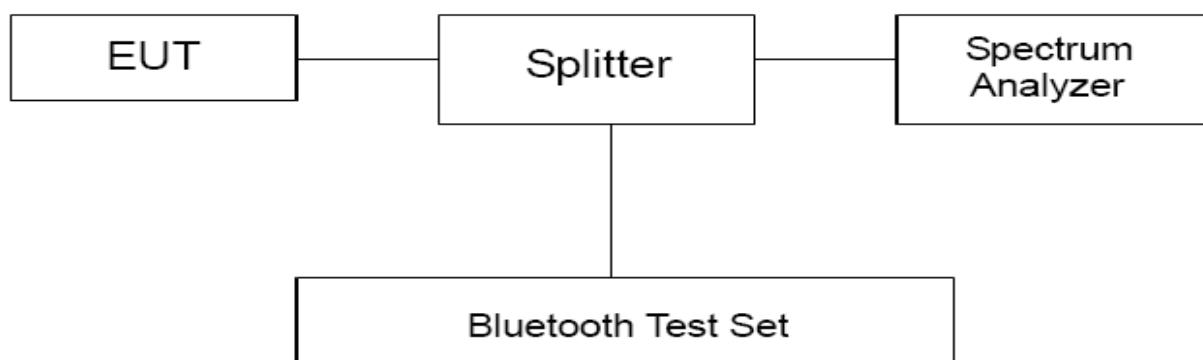
| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 101.5kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.”

| Mode | Carrier frequency (MHz) | Reference value (dBm) | Limit |
|---------------|-------------------------|-----------------------|--------|
| DH5 | 2402 | 5.2 | ≤-14.8 |
| | 2441 | 6.8 | ≤-13.2 |
| | 2480 | 6.2 | ≤-13.8 |
| EDR (3DH5) | 2402 | 4.8 | ≤-15.2 |
| | 2441 | 6.6 | ≤-13.4 |
| | 2480 | 5.9 | ≤-14.1 |

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|-------------|-------------|
| 100kHz-2GHz | 0.684 dB |
| 2GHz-26GHz | 1.407 dB |

TA Technology (Shanghai) Co., Ltd.

Test Report

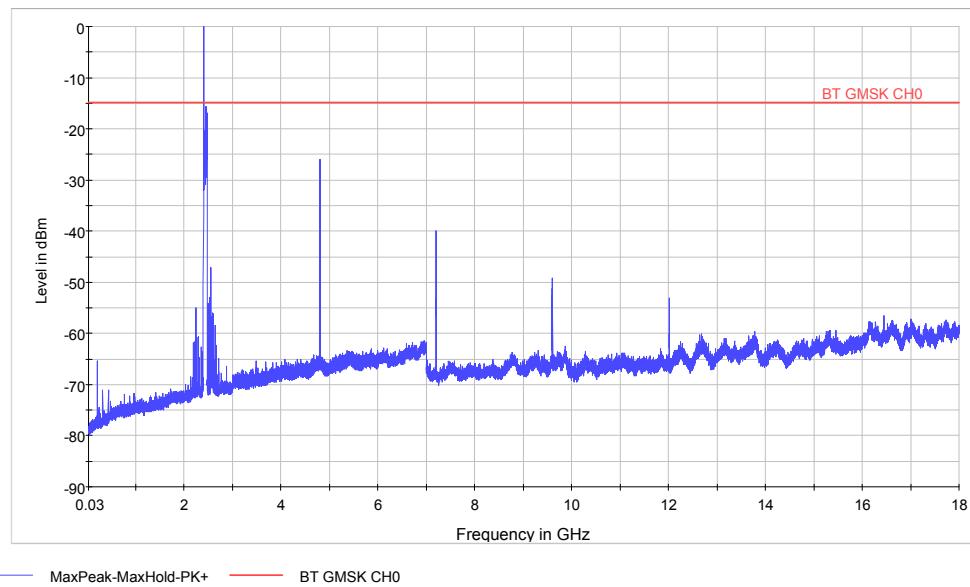
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Test Results:

Right Ear

DH5-CH0:



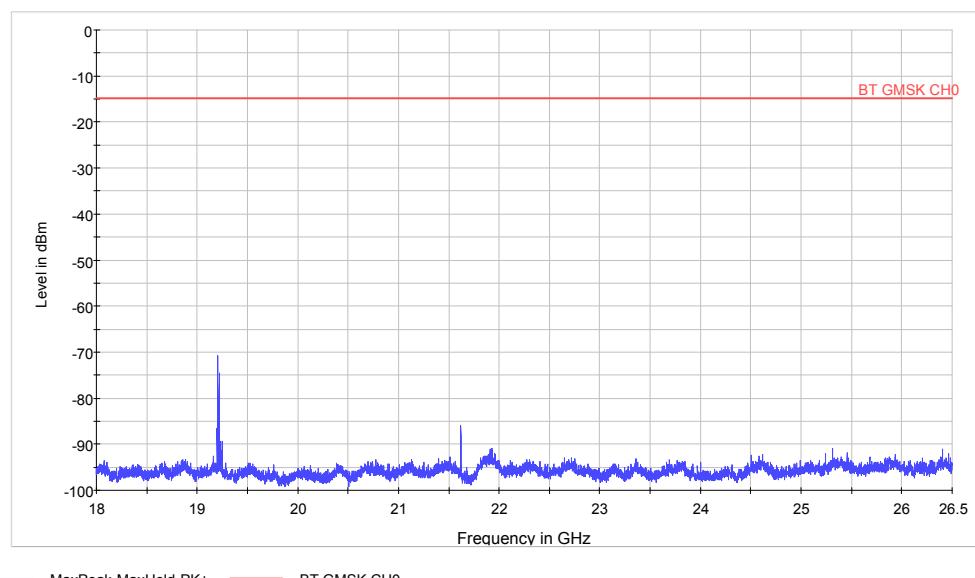
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2402
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4803.8 | -26.03 | -14.80 | 11.23 |
| 3 | 7206.0 | -39.94 | -14.80 | 25.14 |
| 4 | 9601.5 | -49.13 | -14.80 | 34.33 |
| 5 | 12010.0 | -53.15 | -14.80 | 38.35 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19202.8 | -70.84 | -14.80 | 56.04 |
| 9 | 21621.0 | -86.02 | -14.80 | 71.22 |

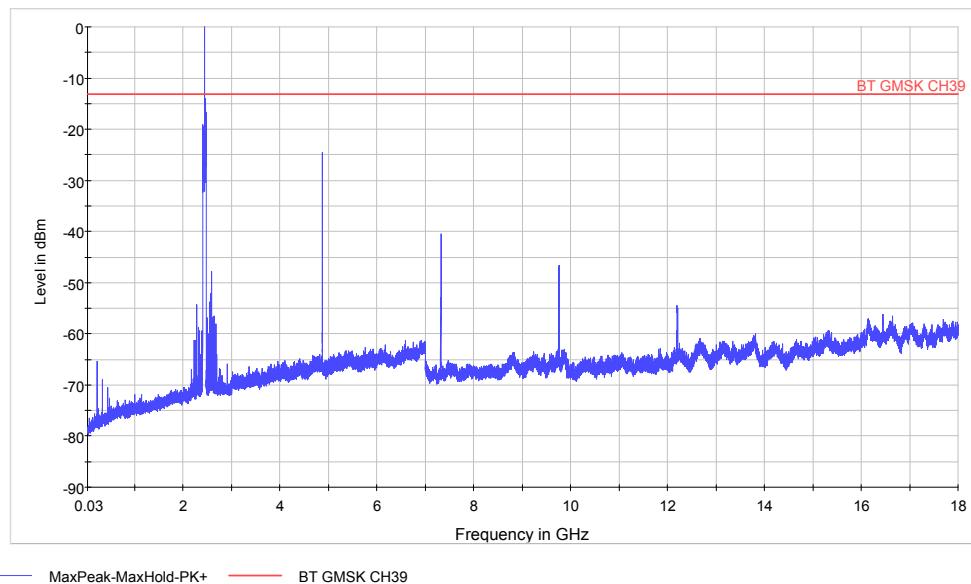
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DH5-CH39:



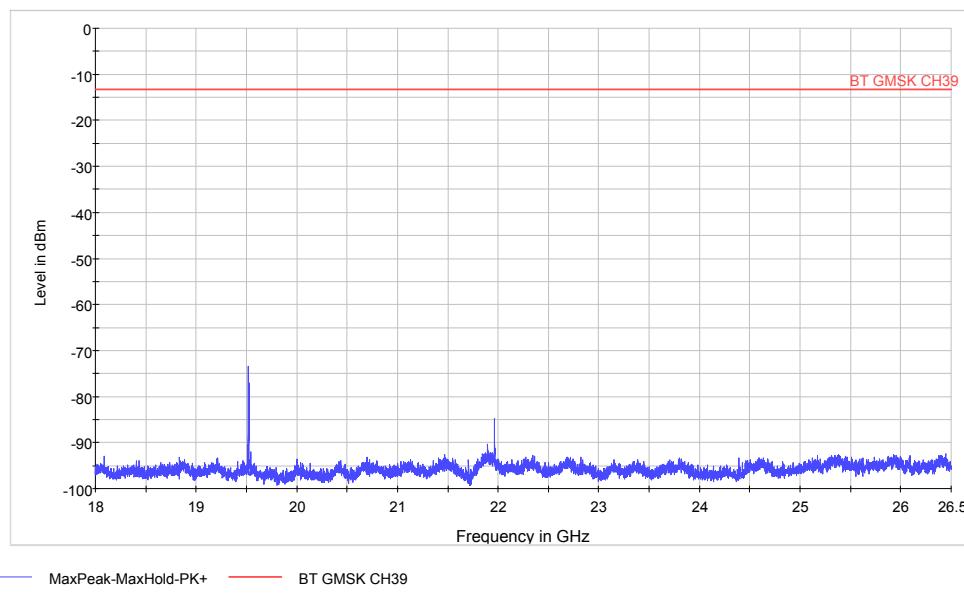
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2441
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4882.1 | -24.66 | -13.20 | 11.46 |
| 3 | 7323.0 | -40.40 | -13.20 | 27.20 |
| 4 | 9763.5 | -46.72 | -13.20 | 33.52 |
| 5 | 12204.0 | -54.57 | -13.20 | 41.37 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19515.1 | -74.32 | -13.20 | 61.12 |
| 9 | 21964.2 | -84.77 | -13.20 | 71.57 |

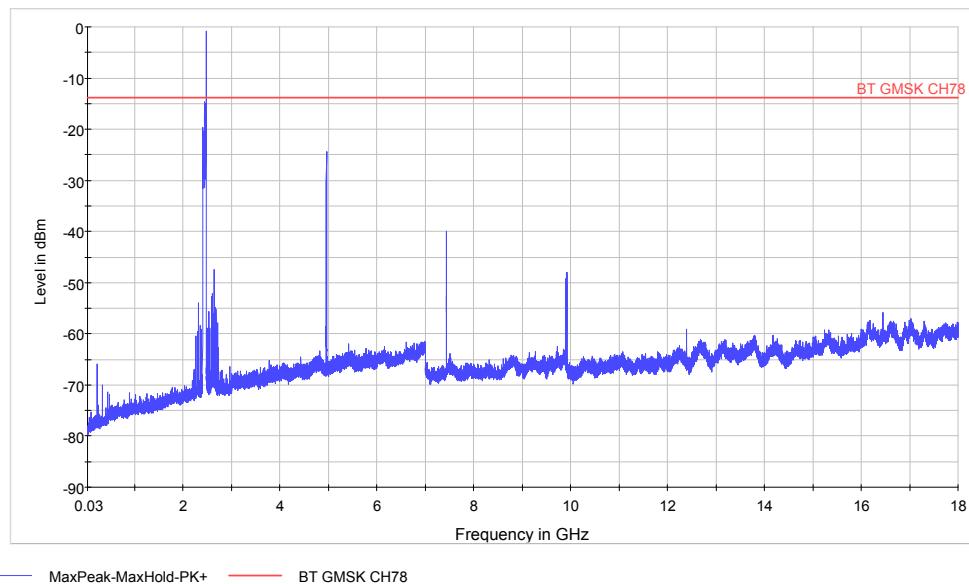
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DH5-CH78:



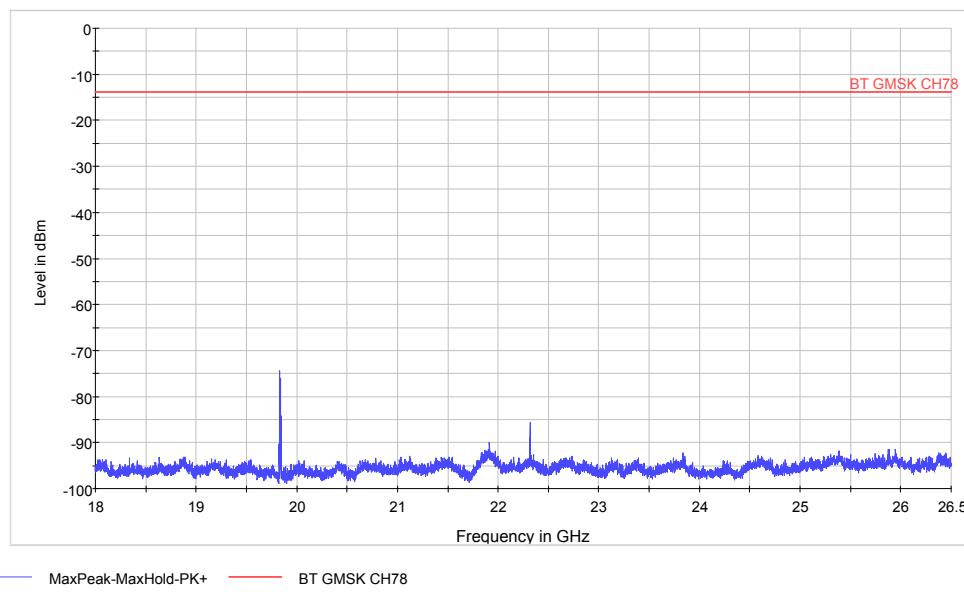
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2480
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4960.1 | -24.48 | -13.80 | 10.68 |
| 3 | 7440.0 | -40.05 | -13.80 | 26.25 |
| 4 | 9919.0 | -47.96 | -13.80 | 34.16 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

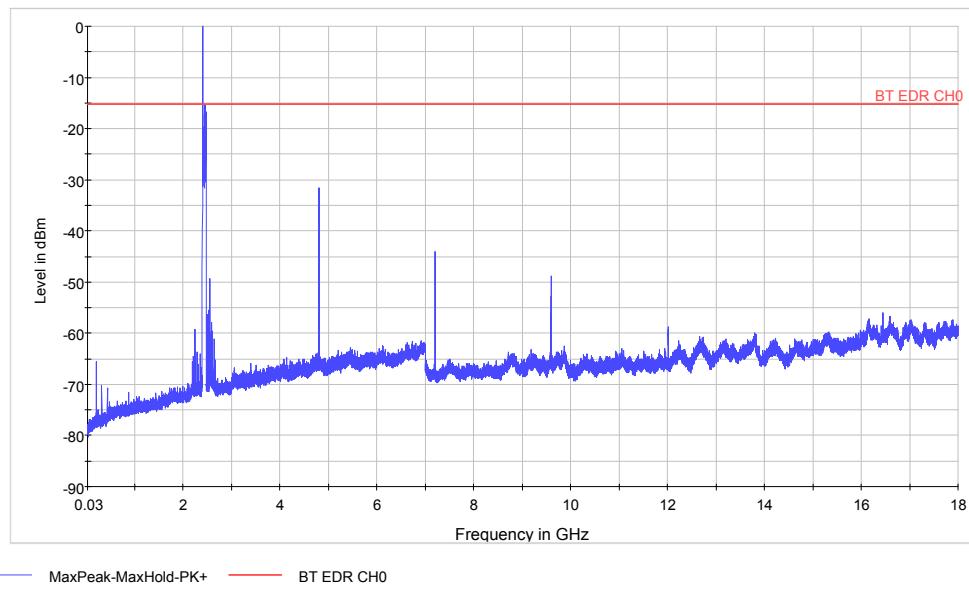
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19827.5 | -77.47 | -13.80 | 63.67 |
| 9 | 22315.9 | -85.60 | -13.80 | 71.80 |

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Test Report

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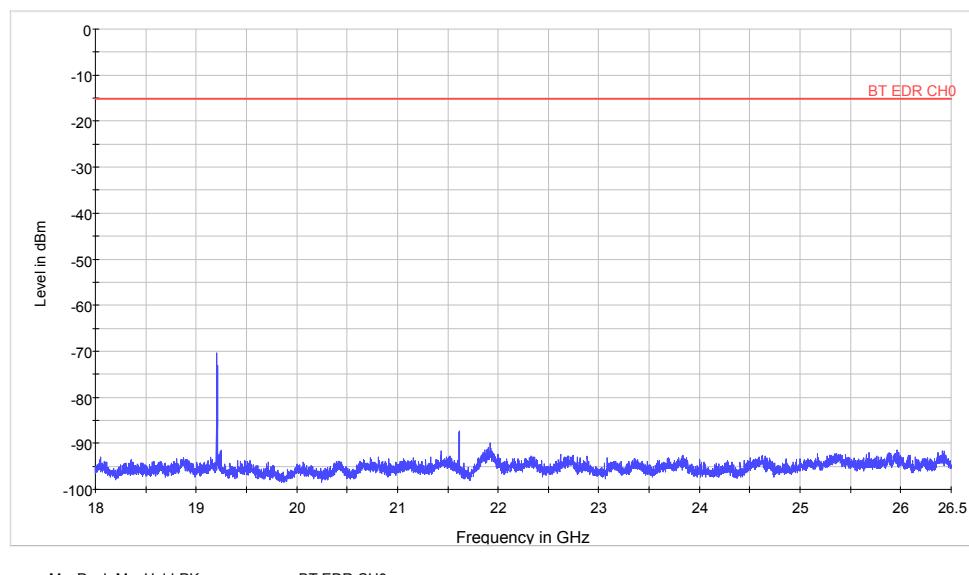
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3DH5-CH0:



Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2402
 Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4803.4 | -31.67 | -15.20 | 16.47 |
| 3 | 7206.0 | -44.10 | -15.20 | 28.90 |
| 4 | 96015.0 | -48.91 | -15.20 | 33.71 |



Spurious RF conducted emissions from 18GHz to 26.5GHz

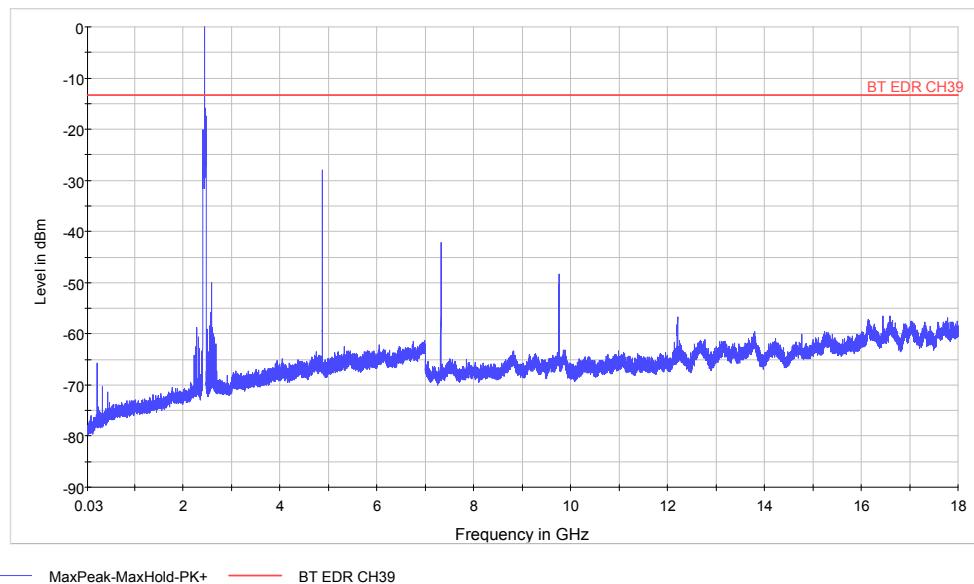
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19202.8 | -70.36 | -15.20 | 55.16 |
| 9 | 21613.6 | -87.20 | -15.20 | 72.00 |

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3DH5 -CH39:



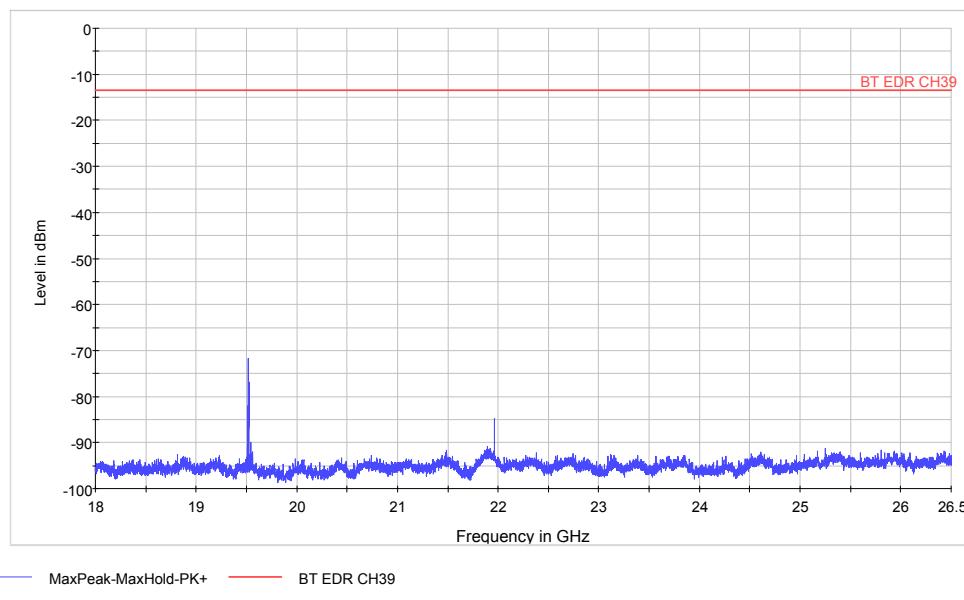
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2441
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4882.1 | -28.00 | -13.40 | 14.60 |
| 3 | 7323.0 | -42.23 | -13.40 | 28.83 |
| 4 | 9757.5 | -48.41 | -13.40 | 35.01 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

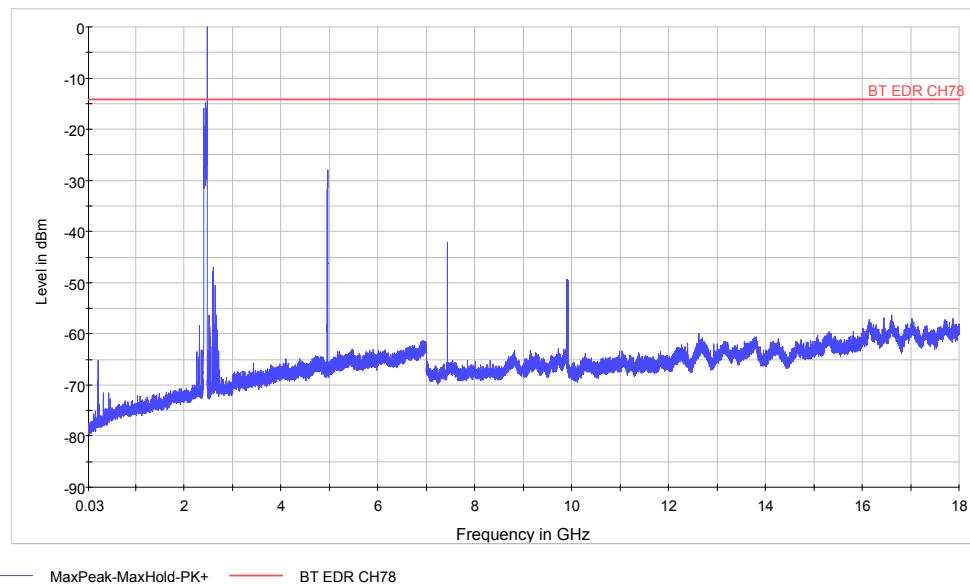
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19515.0 | -71.68 | -13.40 | 58.28 |
| 9 | 21964.0 | -84.90 | -13.40 | 71.50 |

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3DH5 -CH78:



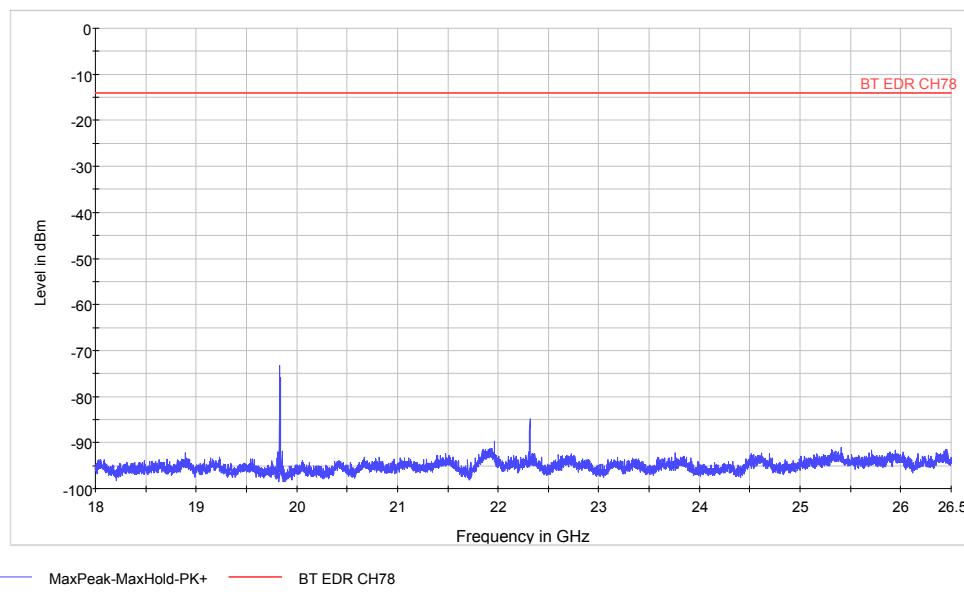
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2480
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4960.1 | -27.93 | -14.10 | 13.83 |
| 3 | 7871.3 | -67.51 | -14.10 | 53.41 |
| 4 | 9913.5 | -49.39 | -14.40 | 35.29 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19827.5 | -73.24 | -14.10 | 59.14 |
| 9 | 22315.9 | -84.80 | -14.10 | 70.70 |

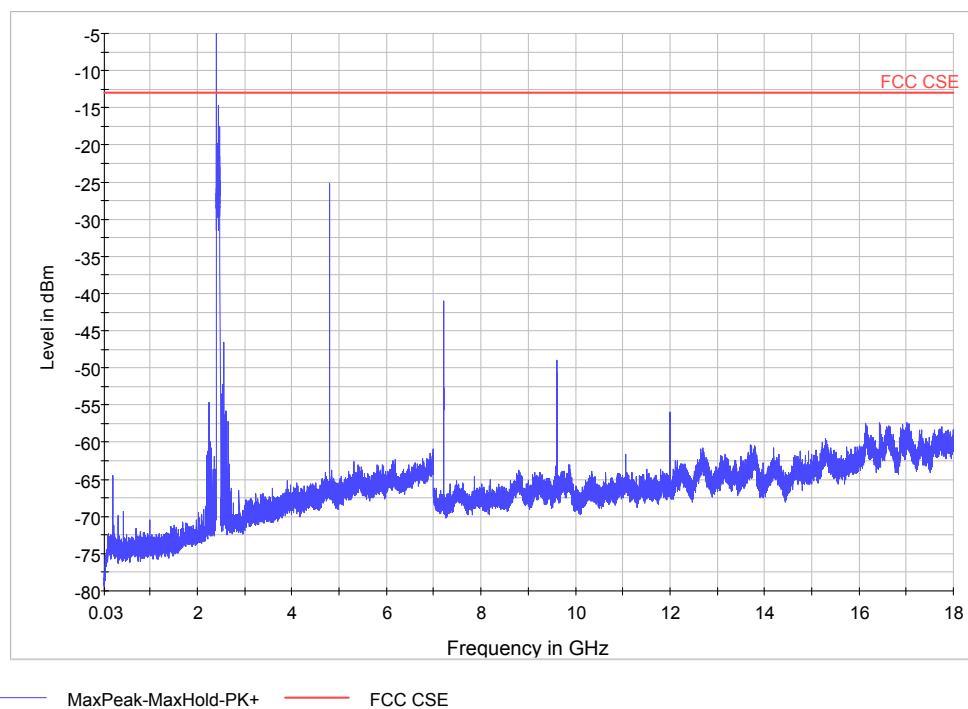
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Left Ear

DH5-CH0:



Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2402

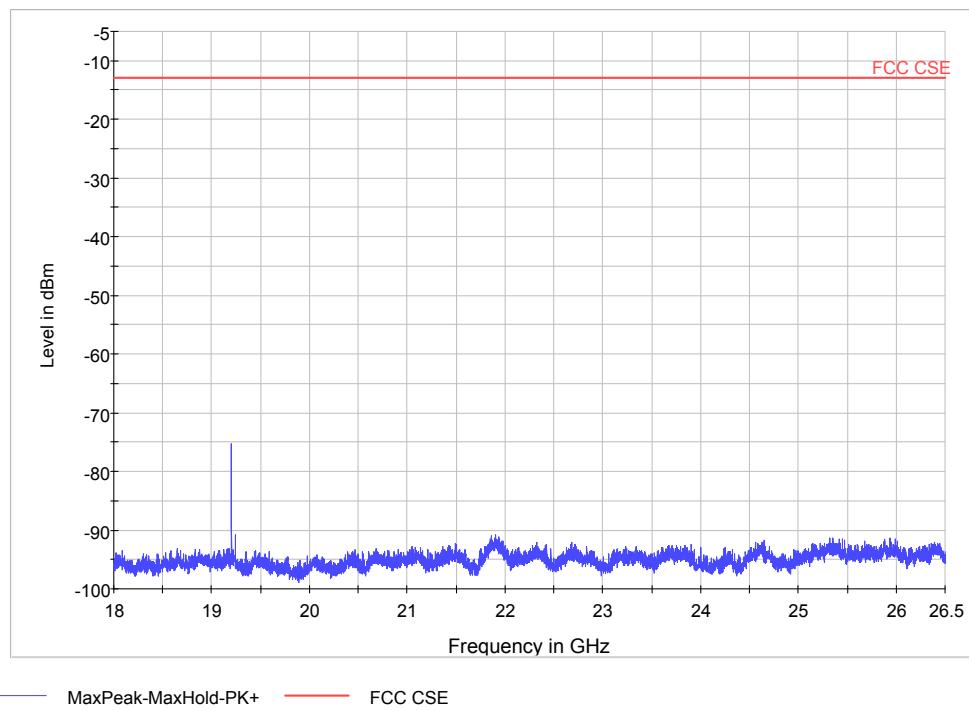
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4804.1 | -25.23 | -14.80 | 10.43 |
| 3 | 7206.0 | -40.96 | -14.80 | 26.16 |
| 4 | 9601.5 | -49.01 | -14.80 | 34.21 |
| 5 | 12009.5 | -55.88 | -14.80 | 41.08 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19203.8 | -75.29 | -14.80 | 60.49 |

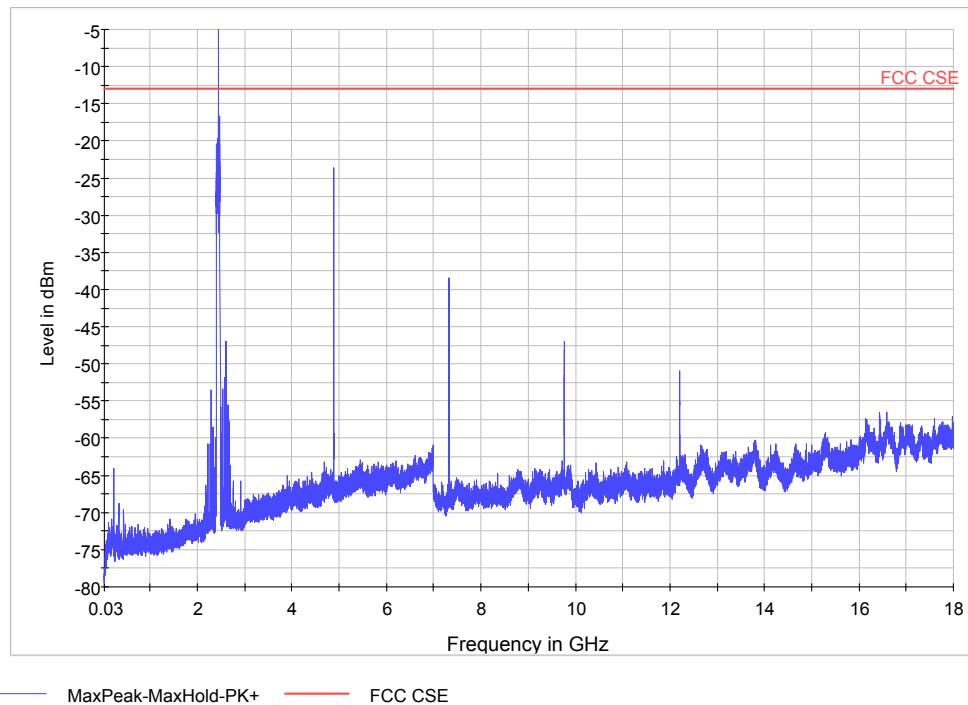
Note: The other Spurious RF conducted emissions level is no more than noise floor.

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DH5-CH39:



Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2441

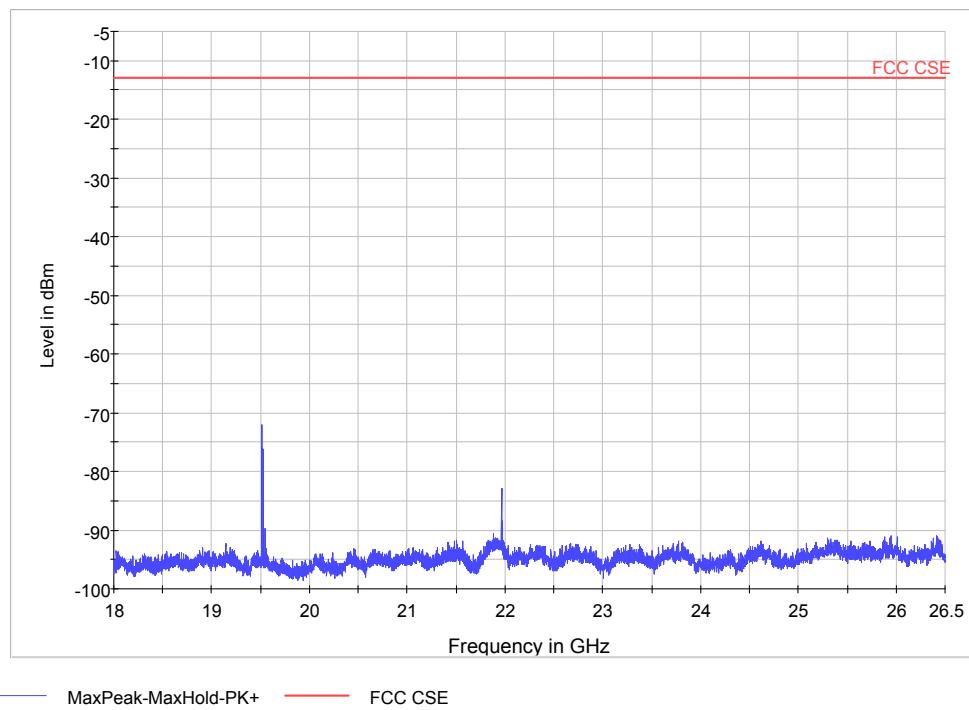
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4882.1 | -23.64 | -13.20 | 10.44 |
| 3 | 7322.2 | -38.47 | -13.20 | 25.27 |
| 4 | 9763.5 | -47.03 | -13.20 | 33.83 |
| 5 | 12205.0 | -50.52 | -13.20 | 37.32 |

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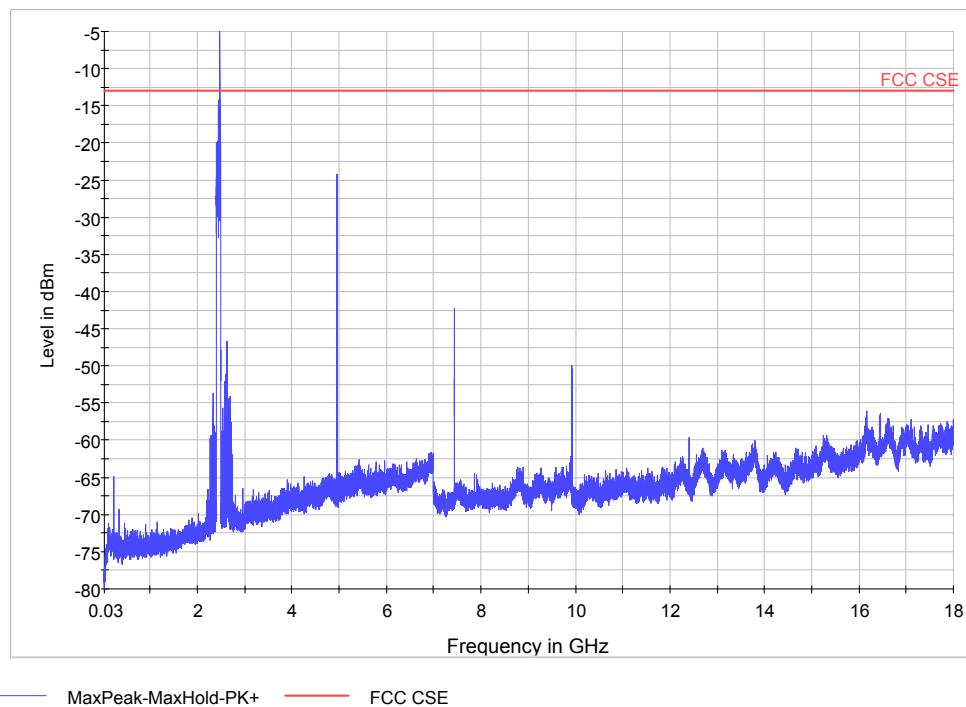
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19515.0 | -72.12 | -13.20 | 58.92 |
| 9 | 21964.2 | -86.87 | -13.20 | 73.67 |

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DH5-CH78:



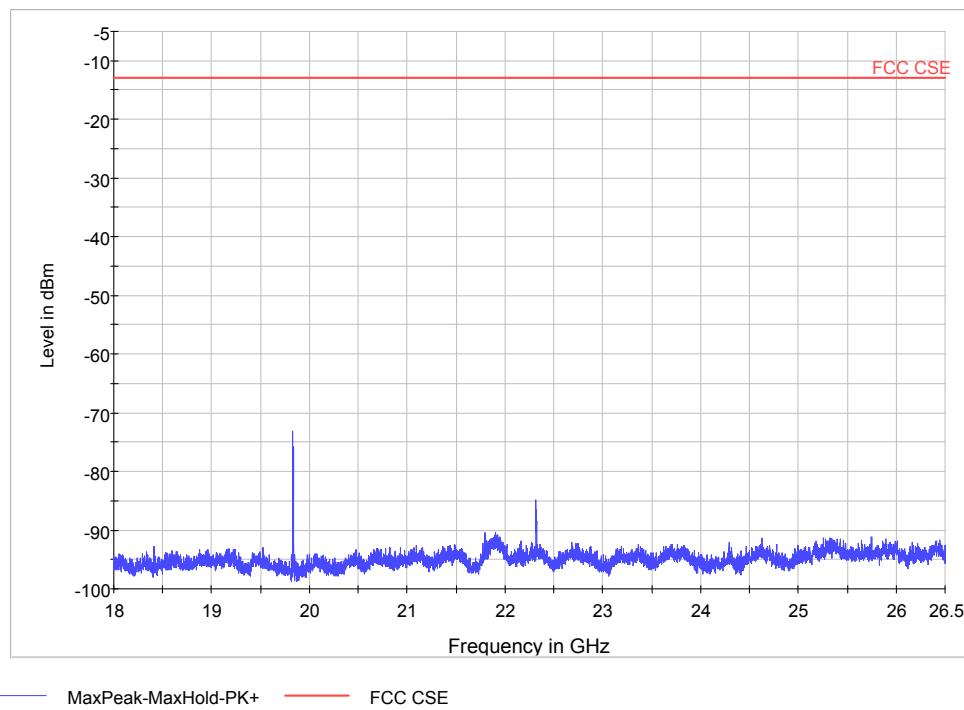
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2480
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4960.1 | -24.22 | -13.80 | 10.42 |
| 3 | 7440.0 | -42.24 | -13.80 | 28.44 |
| 4 | 9919.0 | -50.09 | -13.80 | 36.29 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

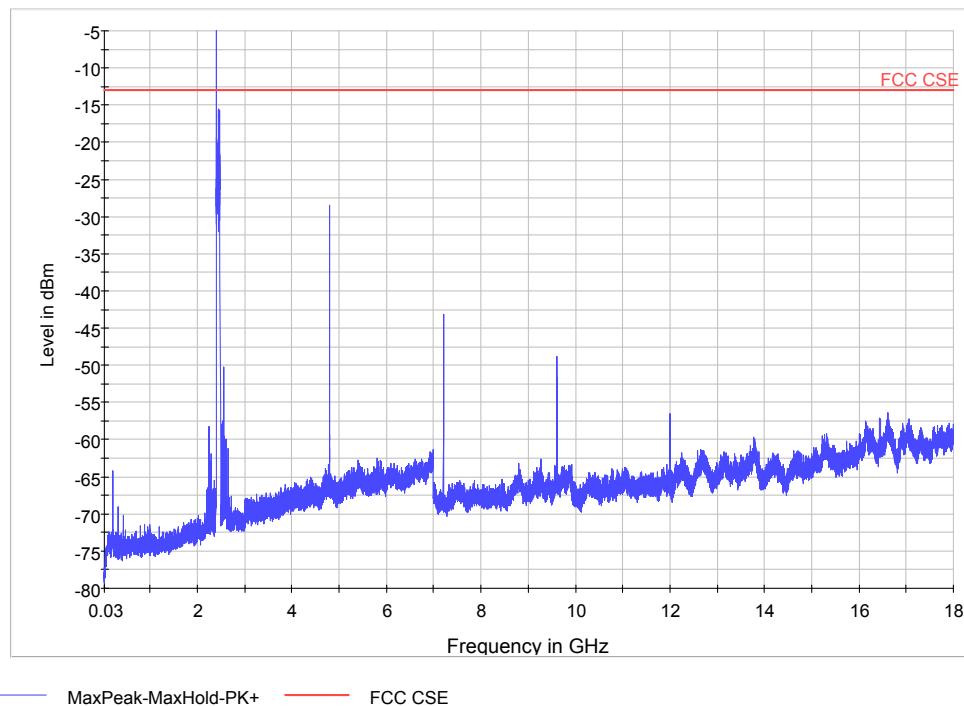
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19827.5 | -73.23 | -13.80 | 59.43 |
| 9 | 22315.9 | -84.82 | -13.80 | 71.02 |

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3DH5-CH0:



— MaxPeak-MaxHold-PK+ — FCC CSE

Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2402

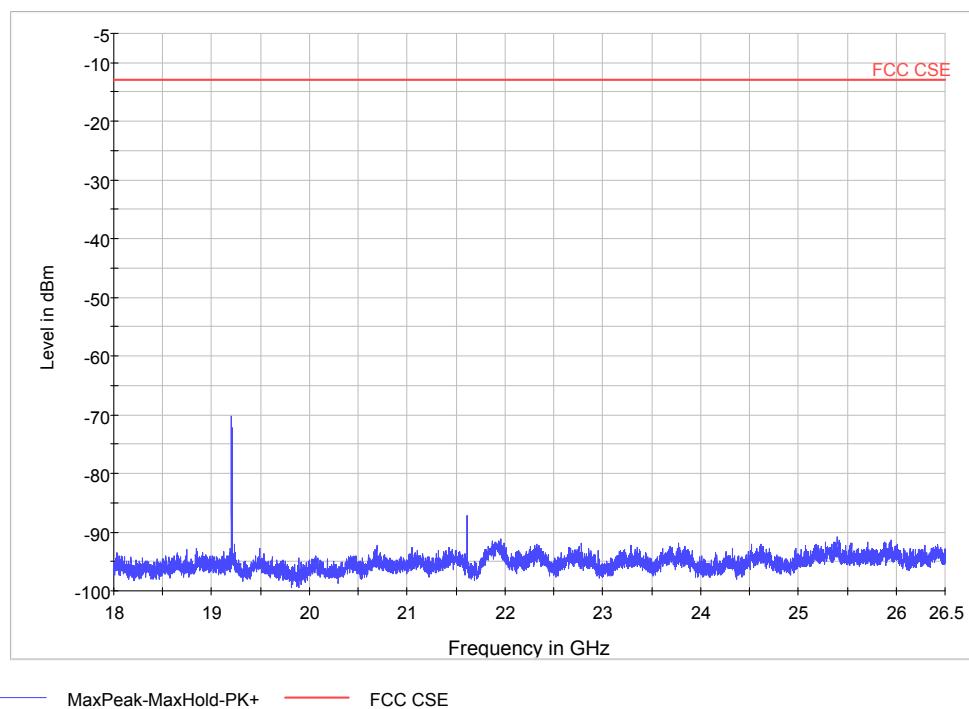
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4804.1 | -28.55 | -15.20 | 13.35 |
| 3 | 7206.0 | -43.20 | -15.20 | 28.00 |
| 4 | 96015.0 | -48.83 | -15.20 | 33.63 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

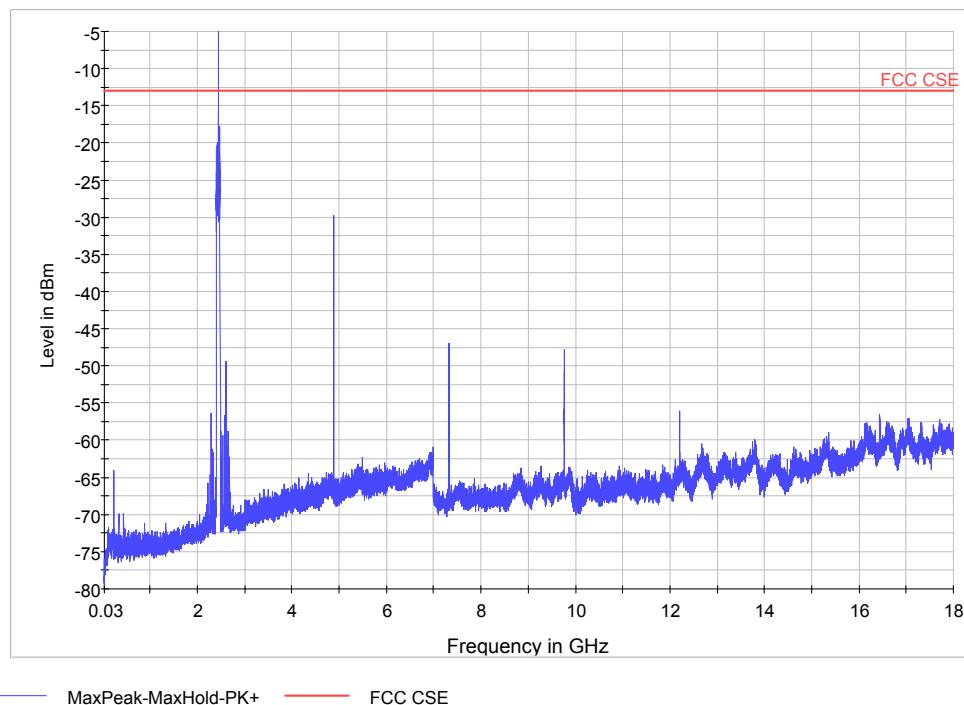
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19202.8 | -70.18 | -15.20 | 54.98 |
| 9 | 21613.6 | -87.23 | -15.20 | 72.03 |

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3DH5 -CH39:



Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2441

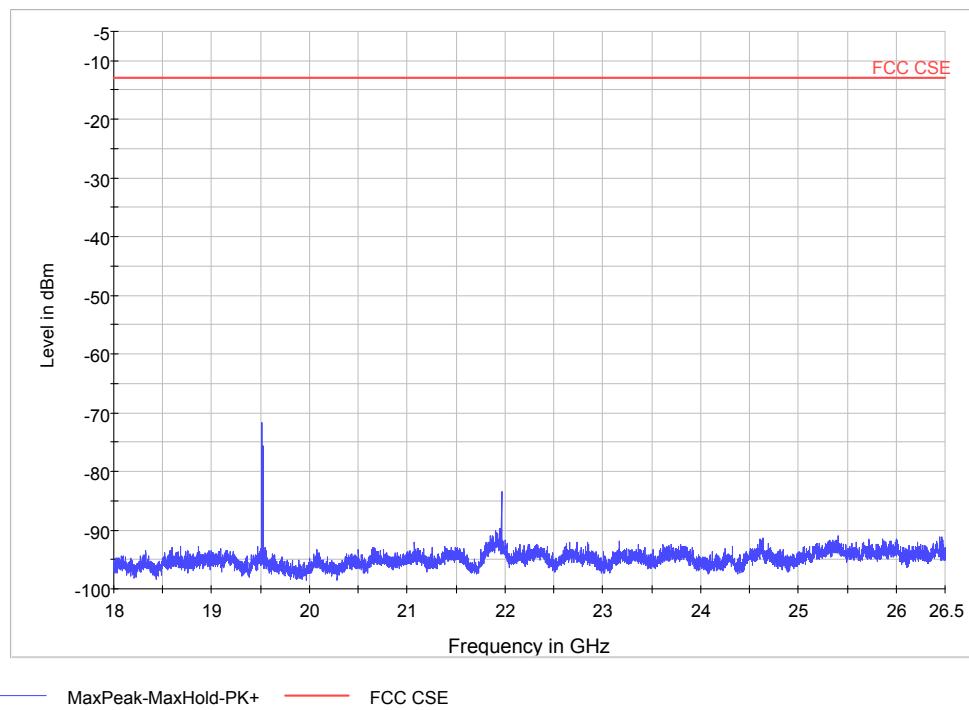
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4881.8 | -29.79 | -13.40 | 16.39 |
| 3 | 7322.0 | -47.02 | -13.40 | 33.62 |
| 4 | 9757.5 | -47.90 | -13.40 | 34.50 |
| 5 | 12205.0 | -56.16 | -13.40 | 42.76 |

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Spurious RF conducted emissions from 18GHz to 26.5GHz

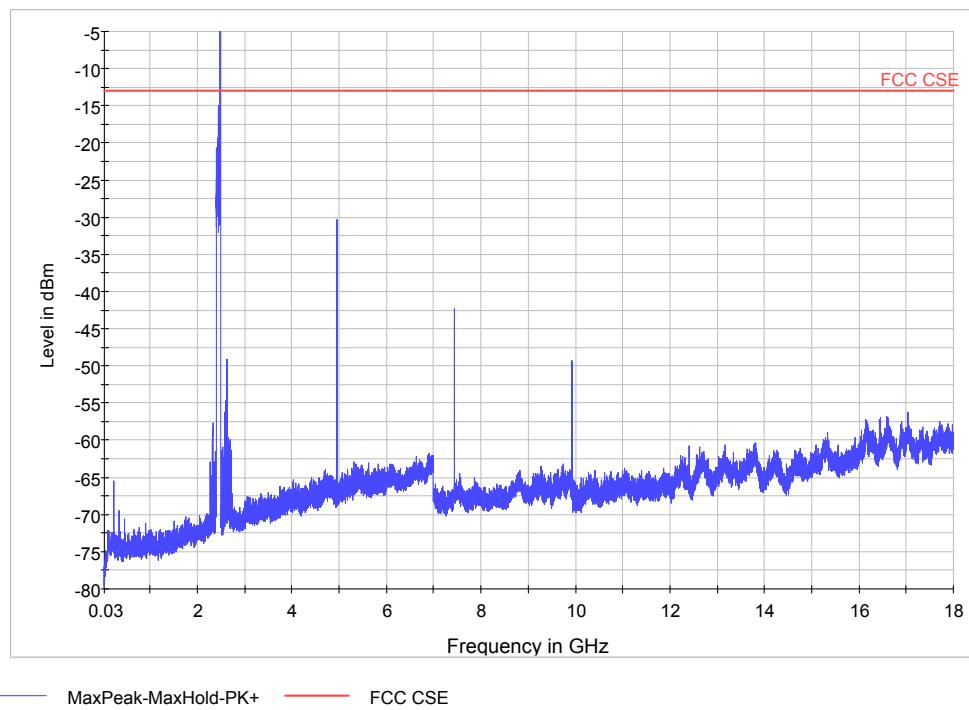
| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19515.0 | -71.66 | -13.40 | 58.26 |
| 9 | 21964.2 | -83.49 | -13.40 | 70.09 |

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3DH5 -CH78:



Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2480

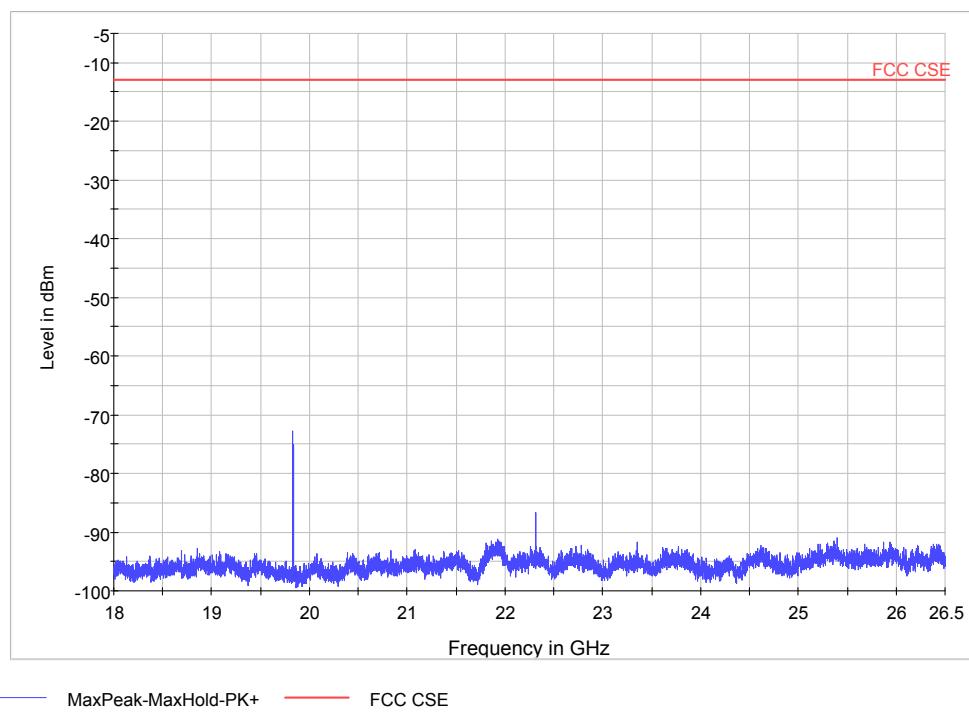
Spurious RF conducted emissions from 30MHz to 18GHz

| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 2 | 4960.1 | -30.31 | -14.10 | 16.21 |
| 3 | 7440.0 | -42.32 | -14.10 | 28.22 |
| 4 | 9913.5 | -49.20 | -14.40 | 35.10 |

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| Harmonic | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
|----------|-----------------|-------------|-------------|-------------|
| 8 | 19827.5 | -72.77 | -14.10 | 58.67 |
| 9 | 22315.9 | -86.75 | -14.10 | 72.65 |

TA Technology (Shanghai) Co., Ltd.

Test Report

3.11. Radiates Emission

Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C | 45%~50% | 102.5kPa |

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.4-2014. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz(detector: Peak and Average):

RBW=1MHz VBW=3MHz/ Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded. Then this mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

The test is in transmitting mode.

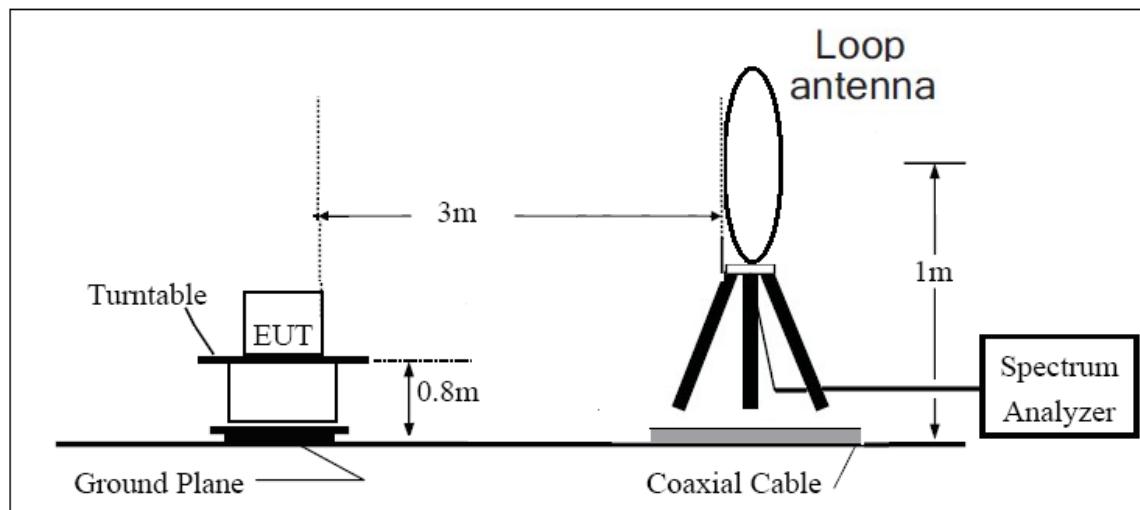
TA Technology (Shanghai) Co., Ltd.
Test Report

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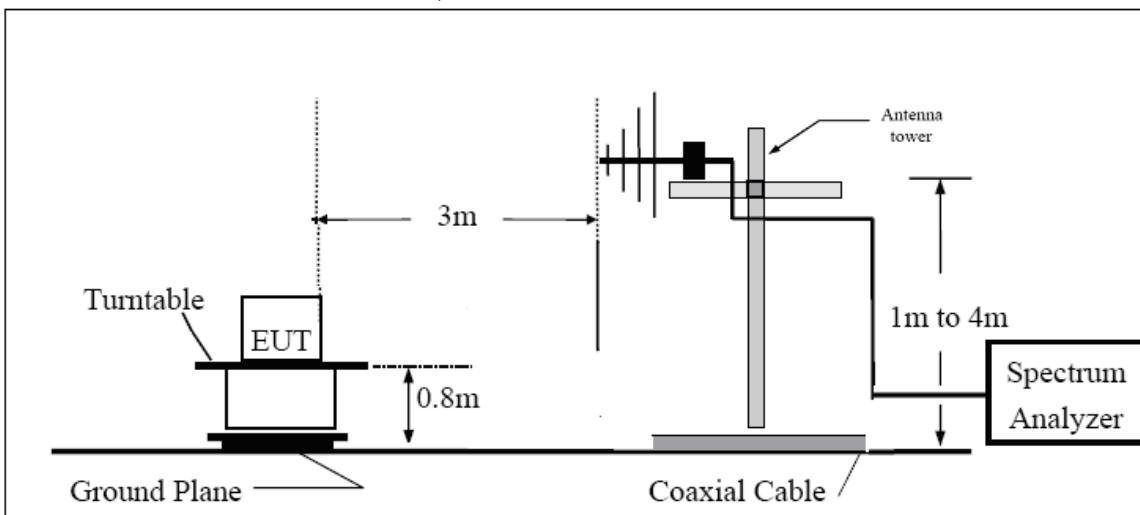
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Test setup

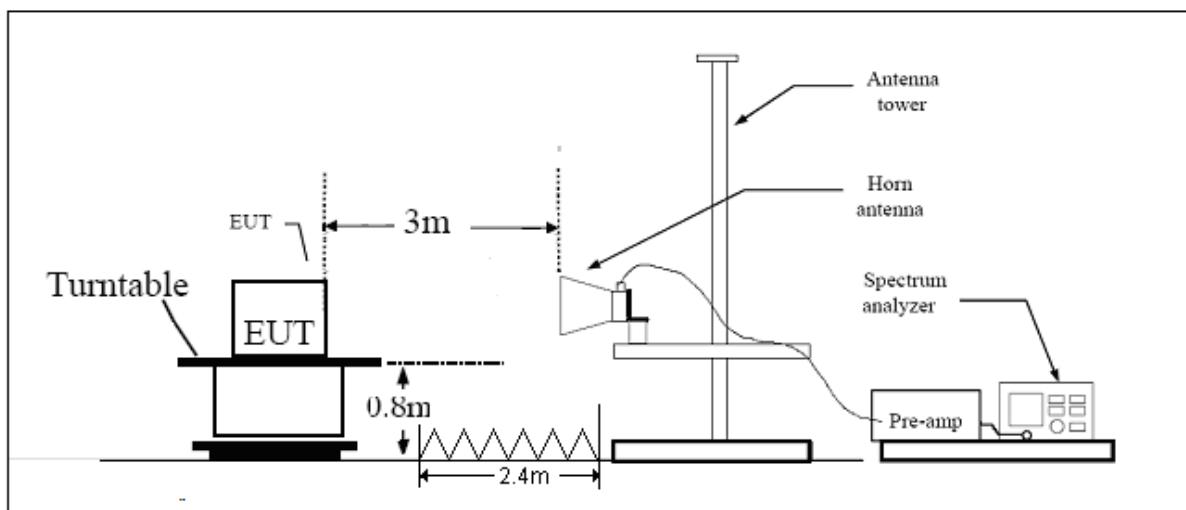
9KHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



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Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009–0.490 | 2400/F(kHz) | / |
| 0.490–1.705 | 24000/F(kHz) | / |
| 1.705–30.0 | 30 | / |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above960 | 500 | 54 |

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|--------------|-------------|
| 9KHz-30MHz | 3.55 dB |
| 30MHz-200MHz | 4.19 dB |
| 200MHz-1GHz | 3.63 dB |
| Above 1GHz | 3.68 dB |

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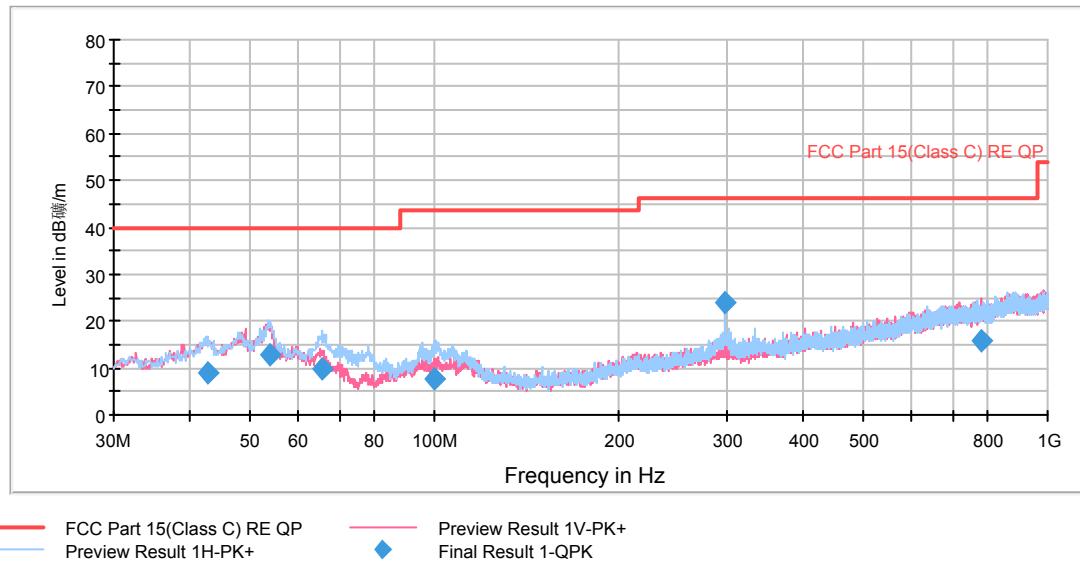
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Test result

DH5-Channel 0

RE 30M-1GHz QP



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in dB}_{\text{B}}/\text{m}$) in the test plot = (level in dB_B/m)

Radiates Emission from 30MHz to 1GHz

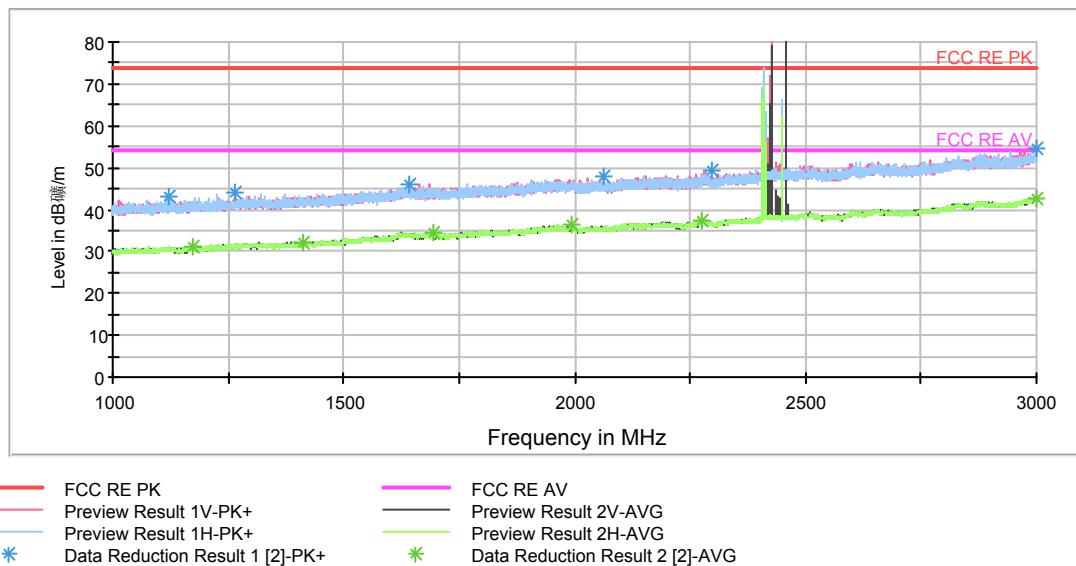
| Frequency (MHz) | Quasi-Peak (dB _B V/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _B V/m) | Correct Factor (dB) | Margin (dB) | Limit (dB _B V/m) |
|-----------------|----------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 42.624422 | 9.0 | 125.0 | H | 122.0 | -11.5 | -20.5 | 31.0 | 40.0 |
| 54.073428 | 12.9 | 125.0 | H | 11.0 | -8.0 | -20.9 | 27.1 | 40.0 |
| 65.642434 | 10.0 | 125.0 | H | 340.0 | -14.2 | -24.2 | 30.0 | 40.0 |
| 100.070400 | 7.7 | 100.0 | H | 164.0 | -17.6 | -25.3 | 35.8 | 43.5 |
| 297.010750 | 23.8 | 121.0 | H | 202.0 | 0.4 | -23.4 | 22.2 | 46.0 |
| 778.923500 | 16.0 | 120.0 | V | 93.0 | 1.3 | -14.7 | 30.0 | 46.0 |

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: The signal beyond the limit is carrier. a font (Level in dB_{μV/m}) in the test plot =(level in dB_{UV/m})

Note: This graph displays the maximum values of horizontal and vertical by software

| Frequency (MHz) | Peak (dB _{UV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{UV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{UV/m}) |
|-----------------|----------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1175.500000 | 41.6 | 100.0 | V | 349.0 | 33.6 | -8.0 | 32.4 | 74 |
| 1412.000000 | 41.5 | 100.0 | V | 355.0 | 34.4 | -7.1 | 32.5 | 74 |
| 1692.250000 | 43.6 | 100.0 | H | 3.0 | 38.6 | -5.0 | 30.4 | 74 |
| 1994.250000 | 45.0 | 100.0 | V | 267.0 | 41.8 | -3.2 | 29.0 | 74 |
| 2277.500000 | 46.8 | 100.0 | V | 0.0 | 45.4 | -1.4 | 27.2 | 74 |
| 2998.250000 | 53.3 | 100.0 | V | 349.0 | 51.0 | -2.3 | 20.7 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _{UV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{UV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{UV/m}) |
|-----------------|-------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1175.500000 | 31.1 | 100.0 | V | 349.0 | 23.1 | -8.0 | 22.9 | 54 |
| 1412.000000 | 32.3 | 100.0 | V | 355.0 | 25.2 | -7.1 | 21.7 | 54 |
| 1692.250000 | 34.4 | 100.0 | H | 3.0 | 29.4 | -5.0 | 19.6 | 54 |
| 1994.250000 | 36.2 | 100.0 | V | 267.0 | 33.0 | -3.2 | 17.8 | 54 |
| 2277.500000 | 37.6 | 100.0 | V | 0.0 | 36.2 | -1.4 | 16.4 | 54 |
| 2998.250000 | 42.8 | 100.0 | V | 349.0 | 40.5 | -2.3 | 11.2 | 54 |

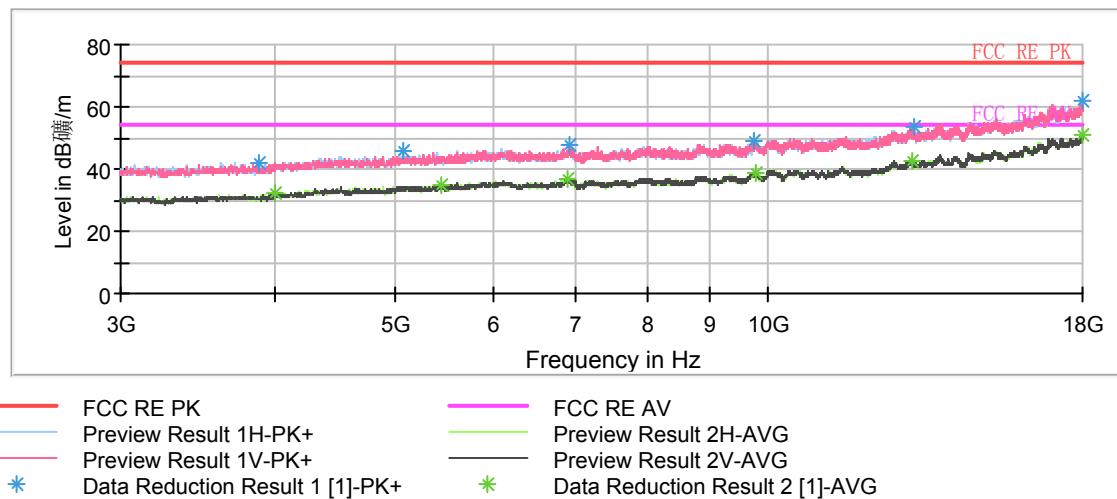
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBm/m)in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3875.625000 | 41.9 | 100.0 | H | 287.0 | 41.6 | -0.3 | 32.1 | 74 |
| 5081.250000 | 45.8 | 100.0 | H | 151.0 | 42.3 | -3.5 | 28.2 | 74 |
| 6911.250000 | 47.5 | 100.0 | V | 121.0 | 40.6 | -6.9 | 26.5 | 74 |
| 9742.500000 | 49.0 | 100.0 | V | 220.0 | 37.4 | -11.6 | 25.0 | 74 |
| 13147.500000 | 53.5 | 100.0 | V | 0.0 | 37.9 | -15.6 | 20.5 | 74 |
| 17988.750000 | 61.6 | 100.0 | H | 91.0 | 36.3 | -25.3 | 12.4 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3875.625000 | 30.4 | 100.0 | H | 287.0 | 30.1 | -0.3 | 23.6 | 54 |
| 5081.250000 | 33.7 | 100.0 | H | 151.0 | 30.2 | -3.5 | 20.3 | 54 |
| 6911.250000 | 36.6 | 100.0 | V | 121.0 | 29.7 | -6.9 | 17.4 | 54 |
| 9742.500000 | 38.3 | 100.0 | V | 220.0 | 26.7 | -11.6 | 15.7 | 54 |
| 13147.500000 | 42.3 | 100.0 | V | 0.0 | 26.7 | -15.6 | 11.7 | 54 |
| 17988.750000 | 50.0 | 100.0 | H | 91.0 | 24.7 | -25.3 | 4.0 | 54 |

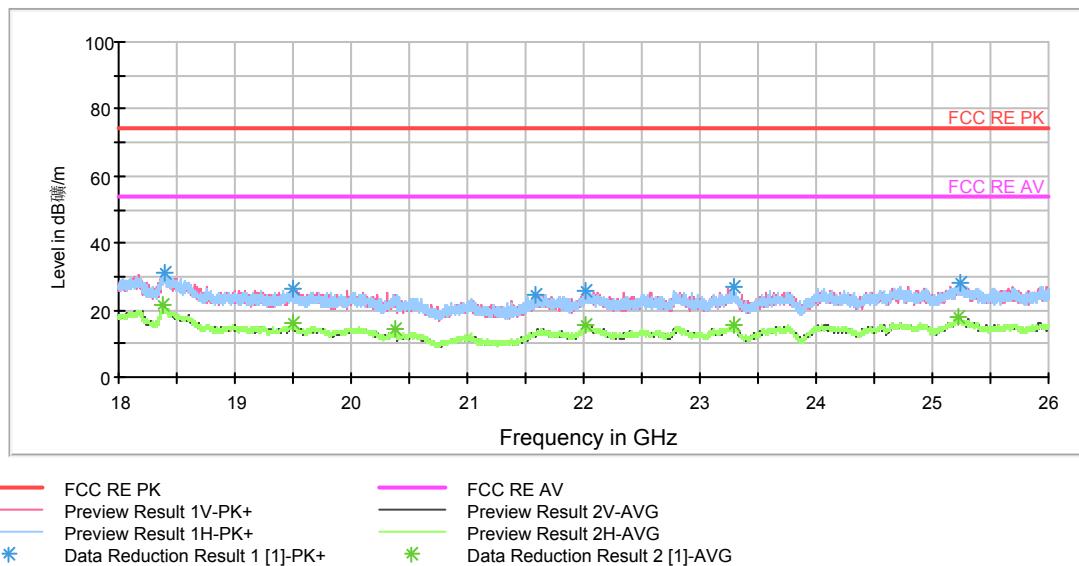
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m)in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 18391.000000 | 31.2 | V | 0.0 | 26.3 | -4.9 | 42.8 | 74 |
| 19502.000000 | 26.5 | H | 0.0 | 19.0 | -7.5 | 47.5 | 74 |
| 21583.000000 | 24.8 | V | 0.0 | 16.1 | -8.7 | 49.2 | 74 |
| 22023.000000 | 26.0 | H | 0.0 | 18.0 | -8.0 | 48.0 | 74 |
| 23299.000000 | 26.8 | H | 0.0 | 19.8 | -7.0 | 47.2 | 74 |
| 25233.000000 | 28.1 | H | 0.0 | 22.2 | -5.9 | 45.9 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 18391.000000 | 19.7 | V | 0.0 | 14.8 | -4.9 | 34.3 | 54 |
| 19502.000000 | 14.7 | H | 0.0 | 7.2 | -7.5 | 39.3 | 54 |
| 21583.000000 | 12.7 | V | 0.0 | 4.0 | -8.7 | 41.3 | 54 |
| 22023.000000 | 14.6 | H | 0.0 | 6.6 | -8.0 | 39.4 | 54 |
| 23299.000000 | 15.3 | H | 0.0 | 8.3 | -7.0 | 38.7 | 54 |
| 25233.000000 | 16.3 | H | 0.0 | 10.4 | -5.9 | 37.7 | 54 |

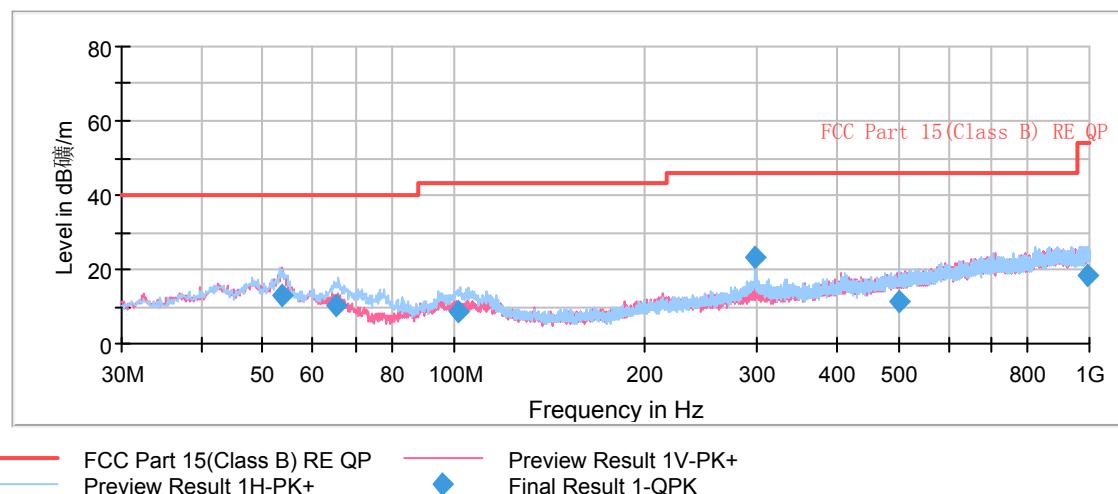
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DH5-Channel 39

RE 0.03-1GHz QP Class B



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in } \text{dB}_{\text{礦/m}}$)in the test plot =(level in dB_{UV/m})

Radiates Emission from 30MHz to 1GHz

| Frequency (MHz) | Quasi-Peak (dB _{UV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{UV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{UV/m}) |
|-----------------|----------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 53.758750 | 13.0 | 125.0 | H | 84.0 | -7.8 | -20.8 | 27.0 | 40.0 |
| 65.290000 | 10.1 | 125.0 | H | 0.0 | -13.8 | -23.9 | 29.9 | 40.0 |
| 101.865000 | 8.6 | 100.0 | H | 50.0 | -16.9 | -25.5 | 34.9 | 43.5 |
| 296.992500 | 23.4 | 121.0 | H | 157.0 | 0.0 | -23.4 | 22.6 | 46.0 |
| 502.638750 | 11.5 | 114.0 | H | 222.0 | -7.5 | -19.0 | 34.5 | 46.0 |
| 994.787500 | 18.5 | 125.0 | V | 17.0 | -6.5 | -12.0 | 27.5 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

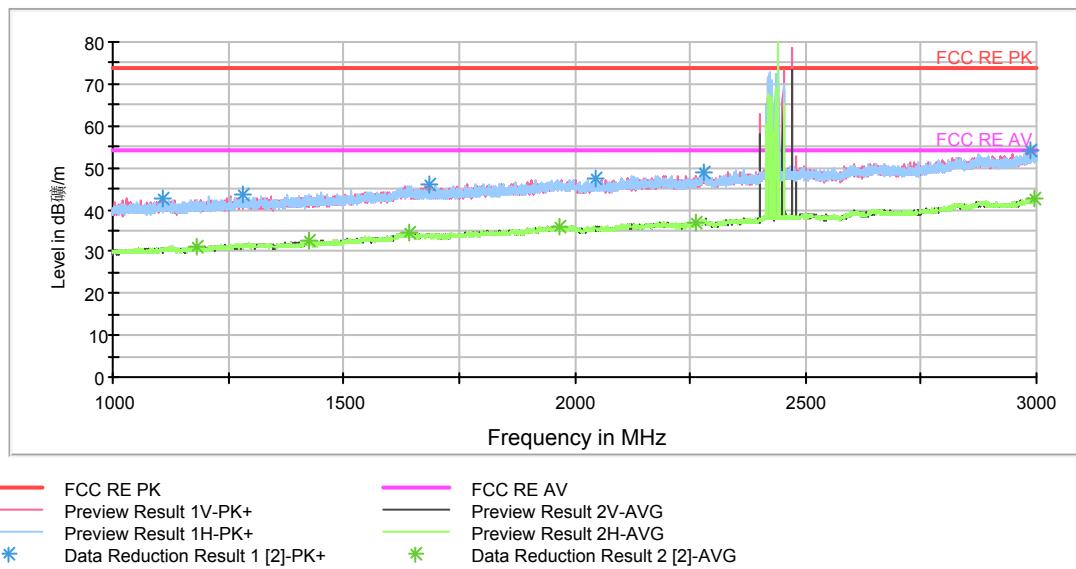
3. Margin = Limit – Quasi-Peak

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dB_{μV/m}) in the test plot =(level in dB_{μV/m})

| Frequency (MHz) | Peak (dB _{μV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{μV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{μV/m}) |
|-----------------|----------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1182.750000 | 40.7 | 100.0 | H | 183.0 | 32.7 | -8.0 | 33.3 | 74 |
| 1424.250000 | 40.8 | 100.0 | V | 343.0 | 33.9 | -6.9 | 33.2 | 74 |
| 1643.000000 | 44.0 | 100.0 | H | 147.0 | 39.2 | -4.8 | 30.0 | 74 |
| 1966.000000 | 45.4 | 100.0 | H | 354.0 | 42.0 | -3.4 | 28.6 | 74 |
| 2264.000000 | 45.7 | 100.0 | V | 320.0 | 43.8 | -1.9 | 28.3 | 74 |
| 2996.500000 | 52.6 | 100.0 | H | 82.0 | 50.3 | -2.3 | 21.4 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

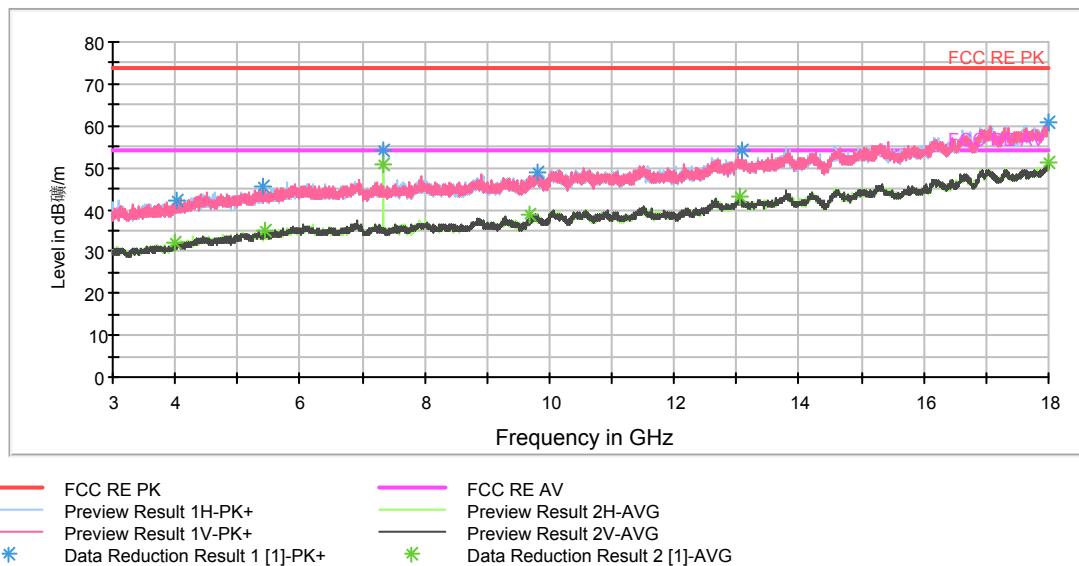
| Frequency (MHz) | Average (dB _{μV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{μV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{μV/m}) |
|-----------------|-------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1182.750000 | 31.2 | 100.0 | H | 183.0 | 23.2 | -8.0 | 22.8 | 54 |
| 1424.250000 | 32.6 | 100.0 | V | 343.0 | 25.7 | -6.9 | 21.4 | 54 |
| 1643.000000 | 34.4 | 100.0 | H | 147.0 | 29.6 | -4.8 | 19.6 | 54 |
| 1966.000000 | 36.1 | 100.0 | H | 354.0 | 32.7 | -3.4 | 17.9 | 54 |
| 2264.000000 | 37.1 | 100.0 | V | 320.0 | 35.2 | -1.9 | 16.9 | 54 |
| 2996.500000 | 42.8 | 100.0 | H | 82.0 | 40.5 | -2.3 | 11.2 | 54 |

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 4010.625000 | 40.2 | 100.0 | H | 308.0 | 39.7 | -0.5 | 33.8 | 74 |
| 5450.625000 | 42.5 | 100.0 | H | 262.0 | 38.6 | -3.9 | 31.5 | 74 |
| 7331.250000 | 54.1 | 100.0 | H | 0.0 | 45.7 | -8.4 | 19.9 | 74 |
| 9695.625000 | 46.9 | 100.0 | V | 0.0 | 35.9 | -11.0 | 27.1 | 74 |
| 13040.625000 | 50.6 | 100.0 | H | 133.0 | 34.4 | -16.2 | 23.4 | 74 |
| 17998.125000 | 59.5 | 100.0 | V | 73.0 | 34.1 | -25.4 | 14.5 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

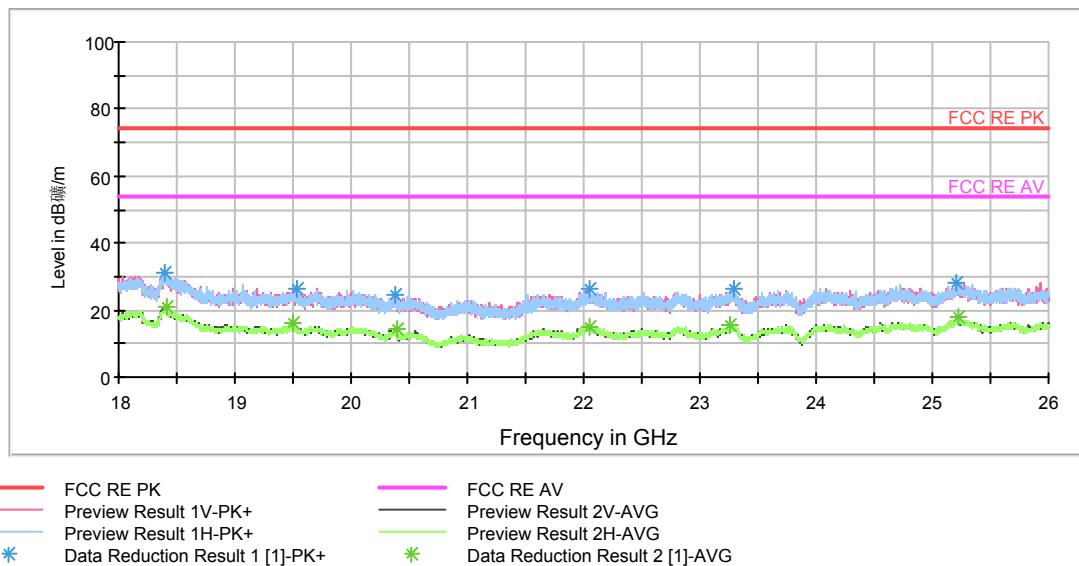
| Frequency (MHz) | Average (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 4010.625000 | 32.3 | 100.0 | H | 308.0 | 31.8 | -0.5 | 21.7 | 54 |
| 5450.625000 | 35.1 | 100.0 | H | 262.0 | 31.2 | -3.9 | 18.9 | 54 |
| 7331.250000 | 50.6 | 100.0 | H | 0.0 | 42.2 | -8.4 | 3.4 | 54 |
| 9695.625000 | 38.9 | 100.0 | V | 0.0 | 27.9 | -11.0 | 15.1 | 54 |
| 13040.625000 | 43.0 | 100.0 | H | 133.0 | 26.8 | -16.2 | 11.0 | 54 |
| 17998.125000 | 51.2 | 100.0 | V | 73.0 | 25.8 | -25.4 | 2.8 | 54 |

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18393.000000 | 31.0 | H | 0.0 | 26.1 | -4.9 | 43.0 | 74 |
| 19526.000000 | 26.6 | V | 0.0 | 19.2 | -7.4 | 47.4 | 74 |
| 20385.000000 | 24.8 | H | 0.0 | 16.7 | -8.1 | 49.2 | 74 |
| 22046.000000 | 26.4 | V | 0.0 | 18.4 | -8.0 | 47.6 | 74 |
| 23288.000000 | 26.3 | V | 0.0 | 19.2 | -7.1 | 47.7 | 74 |
| 25215.000000 | 28.2 | H | 0.0 | 22.1 | -6.1 | 45.8 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18393.000000 | 20.6 | H | 0.0 | 15.7 | -4.9 | 33.4 | 54 |
| 19526.000000 | 14.3 | V | 0.0 | 6.9 | -7.4 | 39.7 | 54 |
| 20385.000000 | 13.2 | H | 0.0 | 5.1 | -8.1 | 40.8 | 54 |
| 22046.000000 | 14.0 | V | 0.0 | 6.0 | -8.0 | 40.0 | 54 |
| 23288.000000 | 14.9 | V | 0.0 | 7.8 | -7.1 | 39.1 | 54 |
| 25215.000000 | 16.7 | H | 0.0 | 10.6 | -6.1 | 37.3 | 54 |

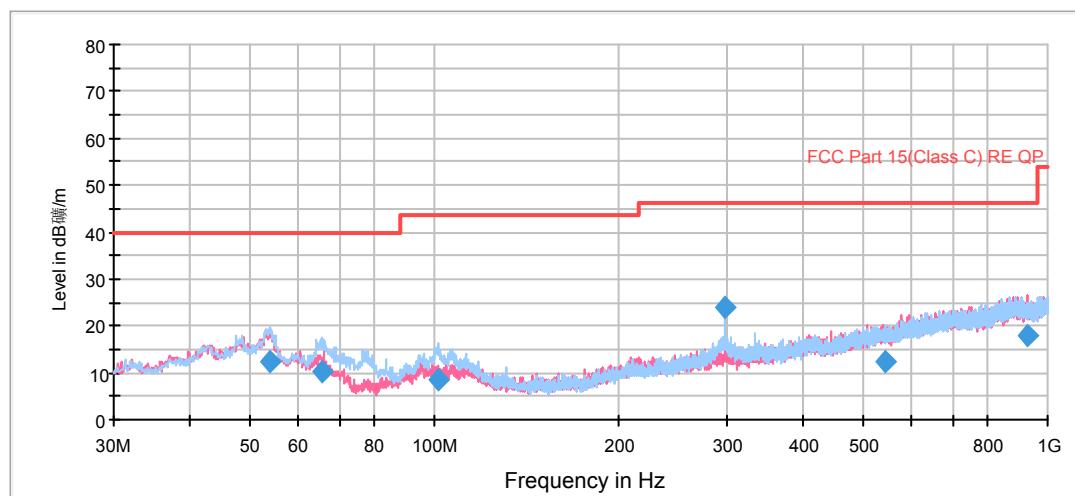
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DH5-Channel 78

RE 30M-1GHz QP



— FCC Part 15(Class C) RE QP — Preview Result 1V-PK+
 — Preview Result 1H-PK+ ♦ Final Result 1-QPK

Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in } \text{dB}_{\text{UV/m}}$)in the test plot =(level in dB_{UV/m})

| Frequency (MHz) | Quasi-Peak (dB _{UV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{UV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{UV/m}) |
|-----------------|----------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 53.870588 | 12.3 | 98.0 | V | 19.0 | -8.5 | -20.8 | 27.7 | 40.0 |
| 65.401488 | 10.2 | 125.0 | H | 268.0 | -13.8 | -24.0 | 29.8 | 40.0 |
| 101.281762 | 8.6 | 100.0 | H | 190.0 | -16.8 | -25.4 | 34.9 | 43.5 |
| 297.010000 | 23.9 | 120.0 | H | 198.0 | 0.5 | -23.4 | 22.1 | 46.0 |
| 542.371250 | 12.3 | 100.0 | H | 22.0 | -6.0 | -18.3 | 33.7 | 46.0 |
| 928.695500 | 18.0 | 119.0 | V | 267.0 | 5.0 | -13.0 | 28.0 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

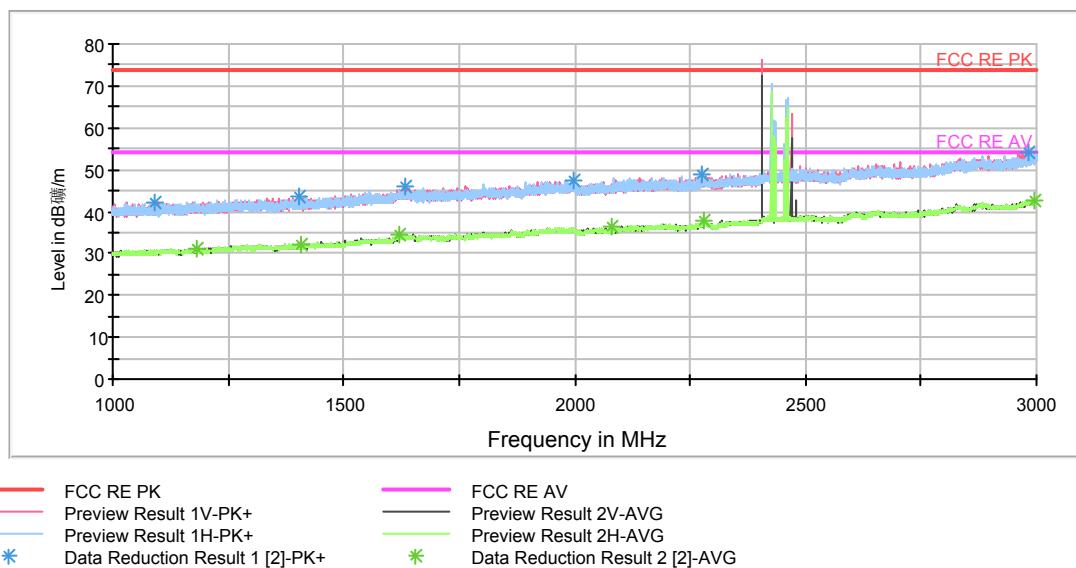
3. Margin = Limit – Quasi-Peak

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dB_{μV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1183.500000 | 40.8 | 100.0 | V | 186.0 | 32.7 | -8.1 | 33.2 | 74 |
| 1408.000000 | 41.6 | 100.0 | H | 144.0 | 34.5 | -7.1 | 32.4 | 74 |
| 1619.500000 | 44.9 | 100.0 | V | 310.0 | 40.0 | -4.9 | 29.1 | 74 |
| 2080.000000 | 46.1 | 100.0 | V | 298.0 | 43.1 | -3.0 | 27.9 | 74 |
| 2279.750000 | 46.6 | 100.0 | V | 0.0 | 45.3 | -1.3 | 27.4 | 74 |
| 2997.500000 | 52.1 | 100.0 | H | 197.0 | 49.8 | -2.3 | 21.9 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

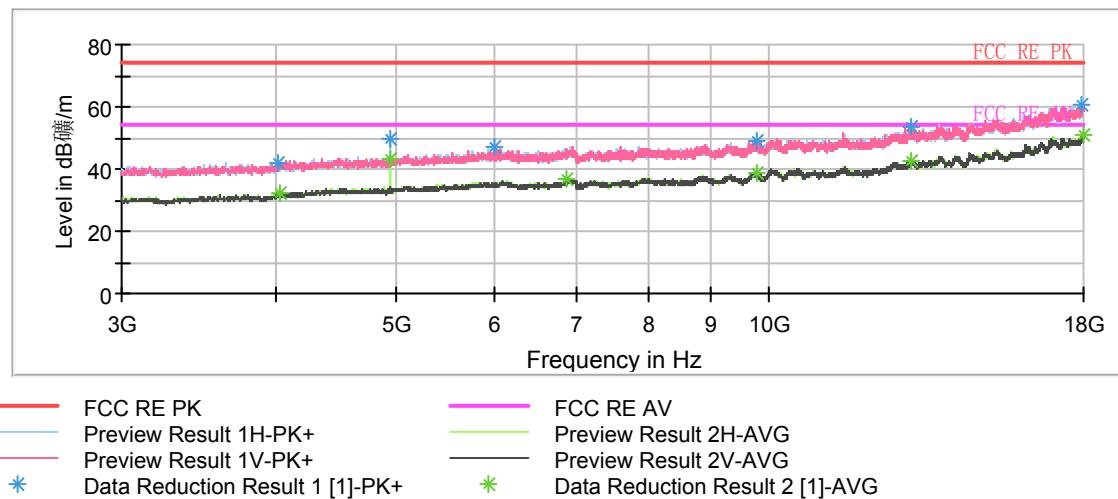
| Frequency (MHz) | Average (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1183.500000 | 31.1 | 100.0 | V | 186.0 | 23.0 | -8.1 | 22.9 | 54 |
| 1408.000000 | 32.3 | 100.0 | H | 144.0 | 25.2 | -7.1 | 21.7 | 54 |
| 1619.500000 | 34.6 | 100.0 | V | 310.0 | 29.7 | -4.9 | 19.4 | 54 |
| 2080.000000 | 36.3 | 100.0 | V | 298.0 | 33.3 | -3.0 | 17.7 | 54 |
| 2279.750000 | 37.7 | 100.0 | V | 0.0 | 36.4 | -1.3 | 16.3 | 54 |
| 2997.500000 | 42.8 | 100.0 | H | 197.0 | 40.5 | -2.3 | 11.2 | 54 |

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBm/m)in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 4008.750000 | 42.0 | 100.0 | H | 114.0 | 41.5 | -0.5 | 32.0 | 74 |
| 4942.500000 | 49.9 | 100.0 | H | 4.0 | 46.8 | -3.1 | 24.1 | 74 |
| 6001.875000 | 47.0 | 100.0 | V | 0.0 | 40.9 | -6.1 | 27.0 | 74 |
| 9806.250000 | 48.8 | 100.0 | H | 355.0 | 36.6 | -12.2 | 25.2 | 74 |
| 13059.375000 | 53.7 | 100.0 | V | 315.0 | 37.5 | -16.2 | 20.3 | 74 |
| 17917.500000 | 60.8 | 100.0 | H | 145.0 | 36.4 | -24.4 | 13.2 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

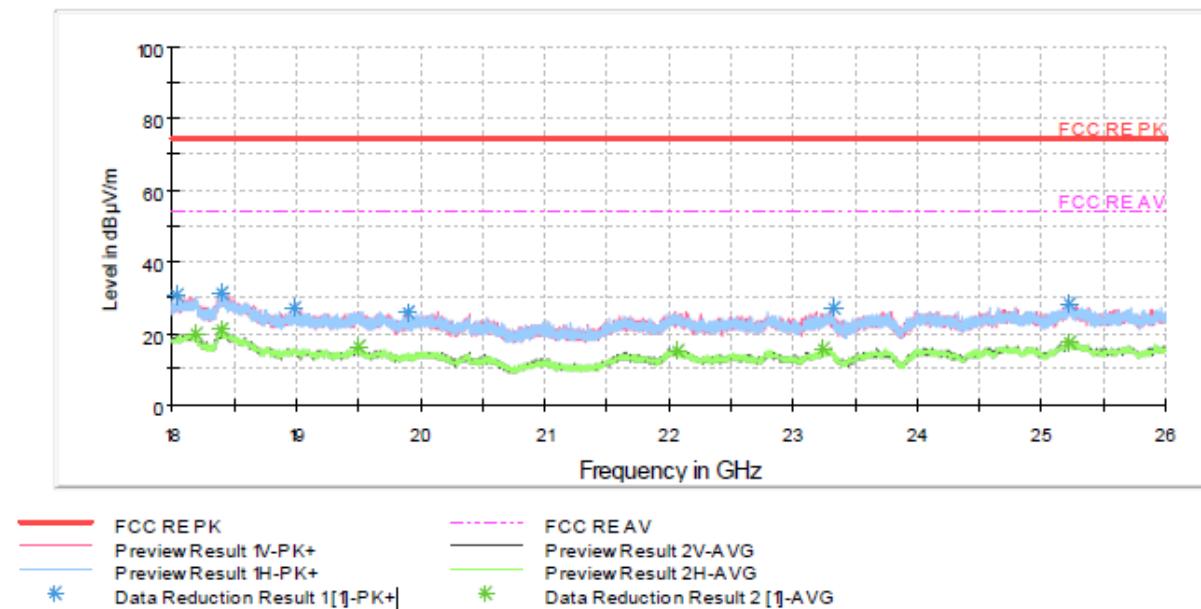
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 4008.750000 | 31.1 | 100.0 | H | 114.0 | 30.6 | -0.5 | 22.9 | 54 |
| 4942.500000 | 43.3 | 100.0 | H | 4.0 | 40.2 | -3.1 | 10.7 | 54 |
| 6001.875000 | 34.9 | 100.0 | V | 0.0 | 28.8 | -6.1 | 19.1 | 54 |
| 9806.250000 | 38.1 | 100.0 | H | 355.0 | 25.9 | -12.2 | 15.9 | 54 |
| 13059.375000 | 42.3 | 100.0 | V | 315.0 | 26.1 | -16.2 | 11.7 | 54 |
| 17917.500000 | 49.4 | 100.0 | H | 145.0 | 25.0 | -24.4 | 4.6 | 54 |

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_μV/m) in the test plot =(level in dB_uV/m)

| Frequency (MHz) | Peak (dB _u V/m) | Polarization | Azimuth (deg) | Reading value (dB _u V/m) | Correct Factor (dB) | Margin (dB) | Limit (dB _u V/m) |
|-----------------|----------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18036.000000 | 30.6 | H | 0.0 | 25.5 | -5.1 | 43.4 | 74 |
| 18399.000000 | 31.3 | V | 0.0 | 26.4 | -4.9 | 42.7 | 74 |
| 18989.000000 | 27.2 | H | 0.0 | 20.0 | -7.2 | 46.8 | 74 |
| 19899.000000 | 26.0 | V | 0.0 | 18.0 | -8.0 | 48.0 | 74 |
| 23321.000000 | 27.0 | H | 0.0 | 19.6 | -7.4 | 47.0 | 74 |
| 25227.000000 | 28.1 | V | 0.0 | 22.2 | -5.9 | 45.9 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _u V/m) | Polarization | Azimuth (deg) | Reading value (dB _u V/m) | Correct Factor (dB) | Margin (dB) | Limit (dB _u V/m) |
|-----------------|-------------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18036.000000 | 18.8 | H | 0.0 | 13.7 | -5.1 | 35.2 | 54 |
| 18399.000000 | 20.4 | V | 0.0 | 15.5 | -4.9 | 33.6 | 54 |
| 18989.000000 | 14.7 | H | 0.0 | 7.5 | -7.2 | 39.3 | 54 |
| 19899.000000 | 13.4 | V | 0.0 | 5.4 | -8.0 | 40.6 | 54 |
| 23321.000000 | 14.5 | H | 0.0 | 7.1 | -7.4 | 39.5 | 54 |
| 25227.000000 | 17.3 | V | 0.0 | 11.4 | -5.9 | 36.7 | 54 |

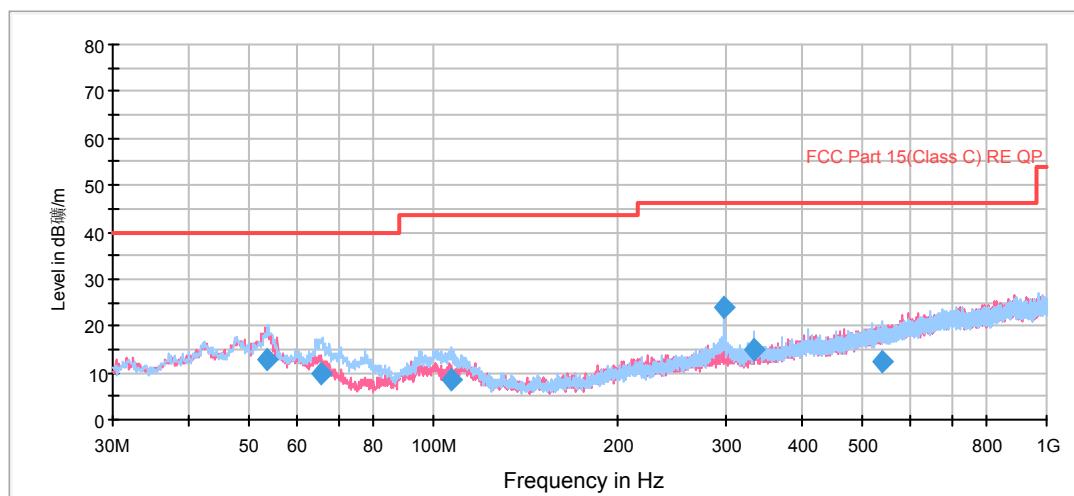
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3DH5-Channel 0

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in dB}_{\text{UV/m}}$)in the test plot =(level in dB_{UV/m})

| Frequency (MHz) | Quasi-Peak (dB _{UV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{UV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{UV/m}) |
|-----------------|----------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 53.656306 | 13.0 | 125.0 | H | 320.0 | -7.8 | -20.8 | 27.0 | 40.0 |
| 65.725275 | 10.0 | 120.0 | H | 330.0 | -14.2 | -24.2 | 30.0 | 40.0 |
| 106.724372 | 8.4 | 100.0 | H | 121.0 | -17.5 | -25.9 | 35.1 | 43.5 |
| 297.010750 | 23.8 | 120.0 | H | 155.0 | 0.4 | -23.4 | 22.2 | 46.0 |
| 334.140000 | 14.9 | 100.0 | H | 141.0 | -7.6 | -22.5 | 31.1 | 46.0 |
| 540.079000 | 12.5 | 100.0 | H | 349.0 | -5.8 | -18.3 | 33.5 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

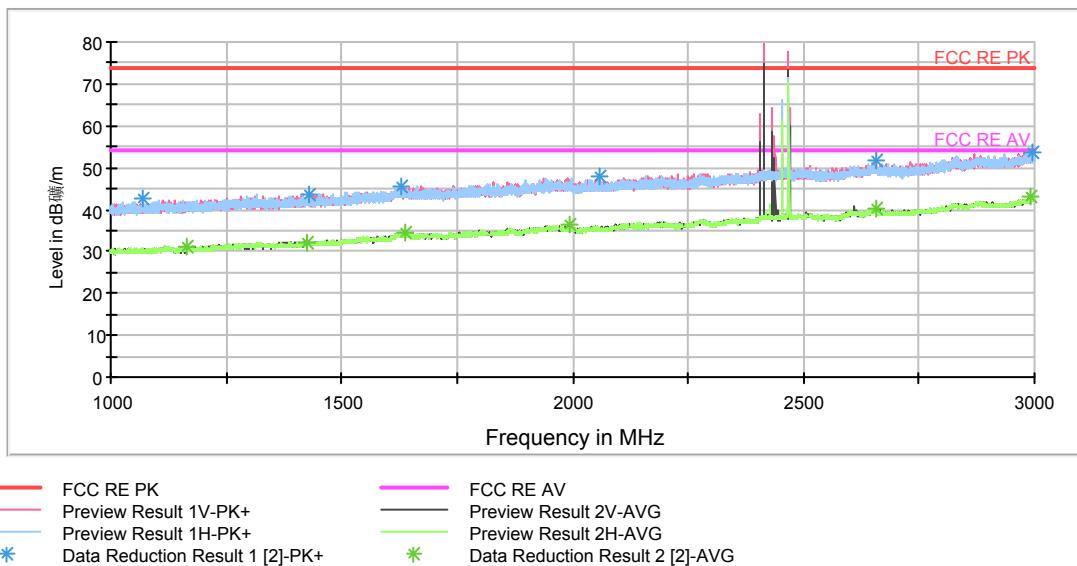
3. Margin = Limit – Quasi-Peak

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1164.250000 | 40.7 | 100.0 | V | 0.0 | 32.5 | -8.2 | 33.3 | 74 |
| 1426.250000 | 41.7 | 100.0 | V | 227.0 | 34.8 | -6.9 | 32.3 | 74 |
| 1638.000000 | 43.8 | 100.0 | V | 275.0 | 39.1 | -4.7 | 30.2 | 74 |
| 1992.250000 | 46.5 | 100.0 | V | 67.0 | 43.2 | -3.3 | 27.5 | 74 |
| 2656.750000 | 49.2 | 100.0 | V | 251.0 | 48.8 | -0.4 | 24.8 | 74 |
| 2990.750000 | 53.0 | 100.0 | H | 177.0 | 50.8 | -2.2 | 21.0 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

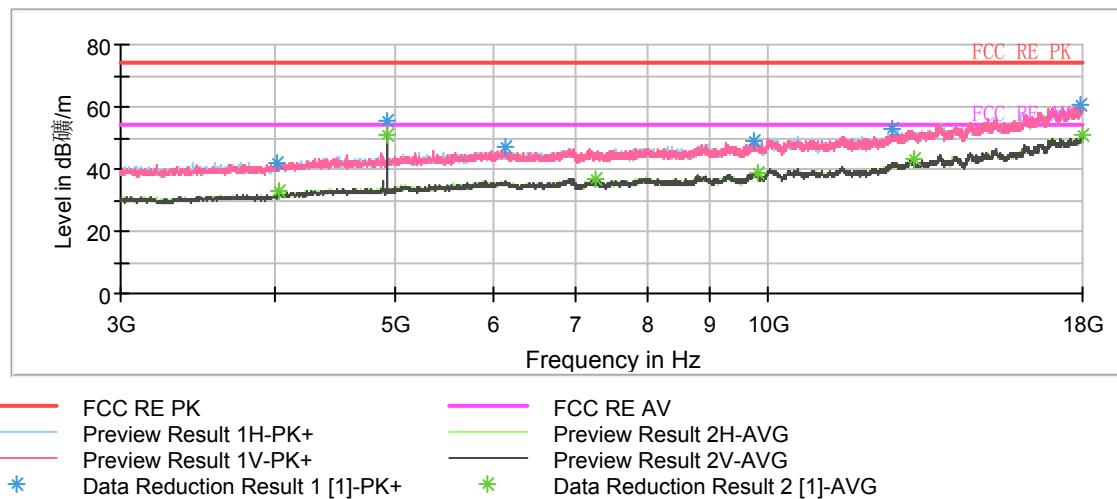
| Frequency (MHz) | Average (dB _{uV/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|-------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 1164.250000 | 31.3 | 100.0 | V | 0.0 | 23.1 | -8.2 | 22.7 | 54 |
| 1426.250000 | 32.2 | 100.0 | V | 227.0 | 25.3 | -6.9 | 21.8 | 54 |
| 1638.000000 | 34.3 | 100.0 | V | 275.0 | 29.6 | -4.7 | 19.7 | 54 |
| 1992.250000 | 36.2 | 100.0 | V | 67.0 | 32.9 | -3.3 | 17.8 | 54 |
| 2656.750000 | 40.3 | 100.0 | V | 251.0 | 39.9 | -0.4 | 13.7 | 54 |
| 2990.750000 | 43.1 | 100.0 | H | 177.0 | 40.9 | -2.2 | 10.9 | 54 |

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBm/m)in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 4018.125000 | 42.0 | 100.0 | H | 335.0 | 41.5 | -0.5 | 32.0 | 74 |
| 4927.500000 | 55.8 | 100.0 | V | 246.0 | 52.7 | -3.1 | 18.2 | 74 |
| 6133.125000 | 46.9 | 100.0 | V | 93.0 | 40.9 | -6.0 | 27.1 | 74 |
| 9776.250000 | 48.8 | 100.0 | H | 272.0 | 36.8 | -12.0 | 25.2 | 74 |
| 12622.500000 | 53.0 | 100.0 | V | 0.0 | 38.3 | -14.7 | 21.0 | 74 |
| 17932.500000 | 60.5 | 100.0 | V | 2.0 | 35.9 | -24.6 | 13.5 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

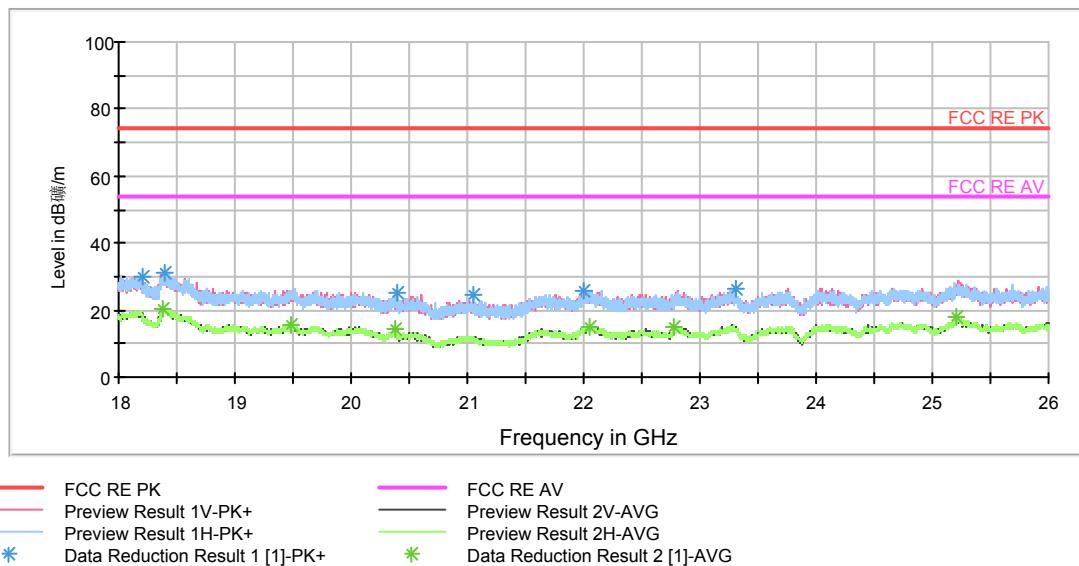
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 4018.125000 | 32.1 | 100.0 | H | 335.0 | 31.6 | -0.5 | 21.9 | 54 |
| 4927.500000 | 51.0 | 100.0 | V | 246.0 | 47.9 | -3.1 | 3.0 | 54 |
| 6133.125000 | 35.1 | 100.0 | V | 93.0 | 29.1 | -6.0 | 18.9 | 54 |
| 9776.250000 | 37.6 | 100.0 | H | 272.0 | 25.6 | -12.0 | 16.4 | 54 |
| 12622.500000 | 41.2 | 100.0 | V | 0.0 | 26.5 | -14.7 | 12.8 | 54 |
| 17932.500000 | 48.9 | 100.0 | V | 2.0 | 24.3 | -24.6 | 5.1 | 54 |

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18199.000000 | 30.1 | V | 0.0 | 25.1 | -5.0 | 43.9 | 74 |
| 18398.000000 | 31.1 | H | 0.0 | 26.2 | -4.9 | 42.9 | 74 |
| 20398.000000 | 25.0 | H | 0.0 | 16.9 | -8.1 | 49.0 | 74 |
| 21053.000000 | 24.3 | H | 0.0 | 15.8 | -8.5 | 49.7 | 74 |
| 22004.000000 | 25.8 | H | 0.0 | 17.5 | -8.3 | 48.2 | 74 |
| 23306.000000 | 26.4 | H | 0.0 | 19.3 | -7.1 | 47.6 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18199.000000 | 19.3 | V | 0.0 | 14.3 | -5.0 | 34.7 | 54 |
| 18398.000000 | 20.3 | H | 0.0 | 15.4 | -4.9 | 33.7 | 54 |
| 20398.000000 | 14.0 | H | 0.0 | 5.9 | -8.1 | 40.0 | 54 |
| 21053.000000 | 11.4 | H | 0.0 | 2.9 | -8.5 | 42.6 | 54 |
| 22004.000000 | 14.5 | H | 0.0 | 6.2 | -8.3 | 39.5 | 54 |
| 23306.000000 | 13.9 | H | 0.0 | 6.8 | -7.1 | 40.1 | 54 |

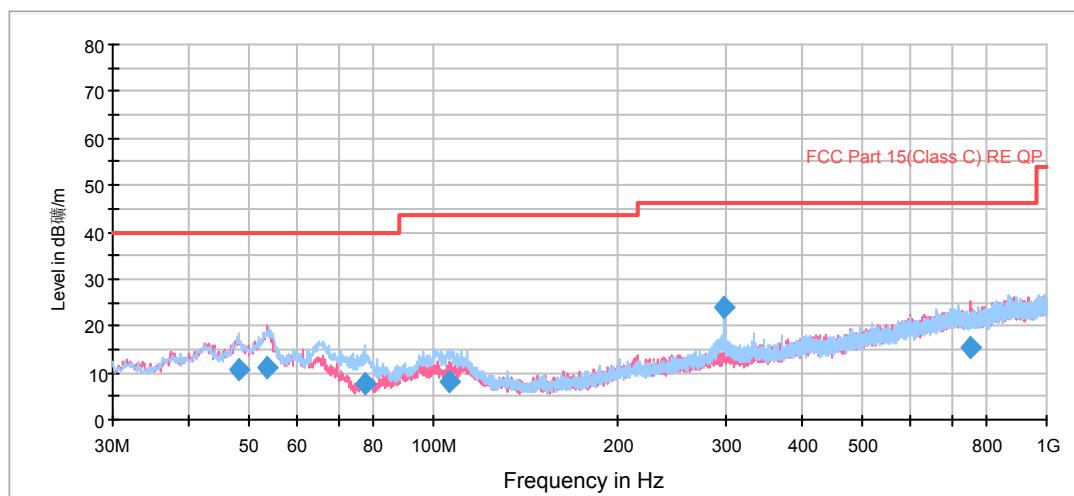
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3DH5-Channel 39

RE 30M-1GHz QP



— FCC Part 15(Class C) RE QP
 — Preview Result 1V-PK+
 — Preview Result 1H-PK+
 ◆ Final Result 1-QPK

Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in } \text{dB}_{\text{B}}/\text{m}$)in the test plot =(level in dB_B/m)

| Frequency (MHz) | Quasi-Peak (dB _B /m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _B /m) | Correct Factor (dB) | Margin (dB) | Limit (dB _B /m) |
|-----------------|---------------------------------|-------------|--------------|---------------|------------------------------------|---------------------|-------------|----------------------------|
| 48.147031 | 10.7 | 125.0 | H | 145.0 | -9.5 | -20.2 | 29.3 | 40.0 |
| 53.548694 | 11.2 | 100.0 | V | 198.0 | -9.6 | -20.8 | 28.8 | 40.0 |
| 77.456175 | 7.7 | 100.0 | H | 122.0 | -21.0 | -28.7 | 32.3 | 40.0 |
| 106.078690 | 8.1 | 100.0 | H | 226.0 | -17.7 | -25.8 | 35.4 | 43.5 |
| 297.010000 | 23.9 | 120.0 | H | 0.0 | 0.5 | -23.4 | 22.1 | 46.0 |
| 749.300000 | 15.6 | 100.0 | V | 262.0 | 0.2 | -15.4 | 30.4 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

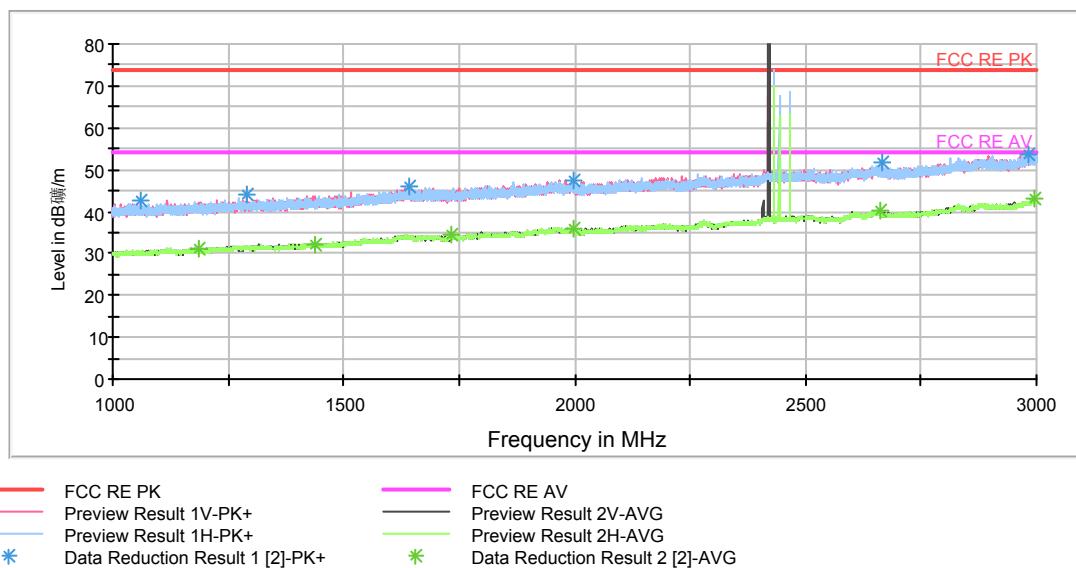
3. Margin = Limit – Quasi-Peak

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1184.750000 | 40.7 | 100.0 | H | 57.0 | 32.6 | -8.1 | 33.3 | 74 |
| 1436.250000 | 41.6 | 100.0 | H | 147.0 | 34.7 | -6.9 | 32.4 | 74 |
| 1731.500000 | 42.9 | 100.0 | V | 181.0 | 38.1 | -4.8 | 31.1 | 74 |
| 1999.000000 | 45.2 | 100.0 | V | 276.0 | 41.8 | -3.4 | 28.8 | 74 |
| 2660.500000 | 50.3 | 100.0 | V | 305.0 | 50.0 | -0.3 | 23.7 | 74 |
| 2996.250000 | 51.9 | 100.0 | V | 317.0 | 49.6 | -2.3 | 22.1 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

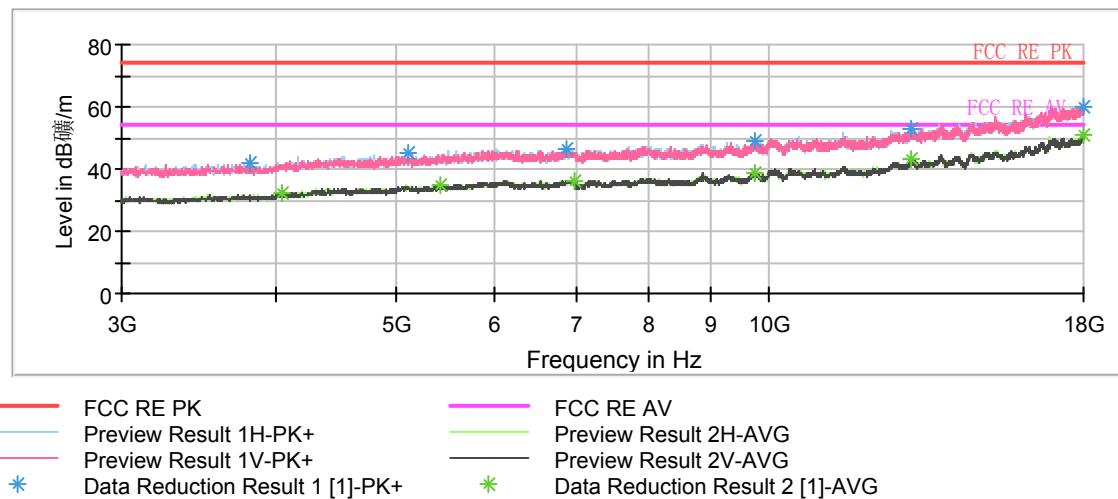
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1184.750000 | 31.3 | 100.0 | H | 57.0 | 23.2 | -8.1 | 22.7 | 54 |
| 1436.250000 | 32.2 | 100.0 | H | 147.0 | 25.3 | -6.9 | 21.8 | 54 |
| 1731.500000 | 34.3 | 100.0 | V | 181.0 | 29.5 | -4.8 | 19.7 | 54 |
| 1999.000000 | 36.1 | 100.0 | V | 276.0 | 32.7 | -3.4 | 17.9 | 54 |
| 2660.500000 | 40.0 | 100.0 | V | 305.0 | 39.7 | -0.3 | 14.0 | 54 |
| 2996.250000 | 43.1 | 100.0 | V | 317.0 | 40.8 | -2.3 | 10.9 | 54 |

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBm/m)in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3808.125000 | 41.9 | 100.0 | V | 203.0 | 41.5 | -0.4 | 32.1 | 74 |
| 5118.750000 | 45.3 | 100.0 | H | 260.0 | 41.7 | -3.6 | 28.7 | 74 |
| 6879.375000 | 46.6 | 100.0 | H | 196.0 | 39.8 | -6.8 | 27.4 | 74 |
| 9755.625000 | 49.3 | 100.0 | H | 354.0 | 37.6 | -11.7 | 24.7 | 74 |
| 13080.000000 | 53.0 | 100.0 | V | 233.0 | 36.8 | -16.2 | 21.0 | 74 |
| 17988.750000 | 60.2 | 100.0 | H | 306.0 | 34.9 | -25.3 | 13.8 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

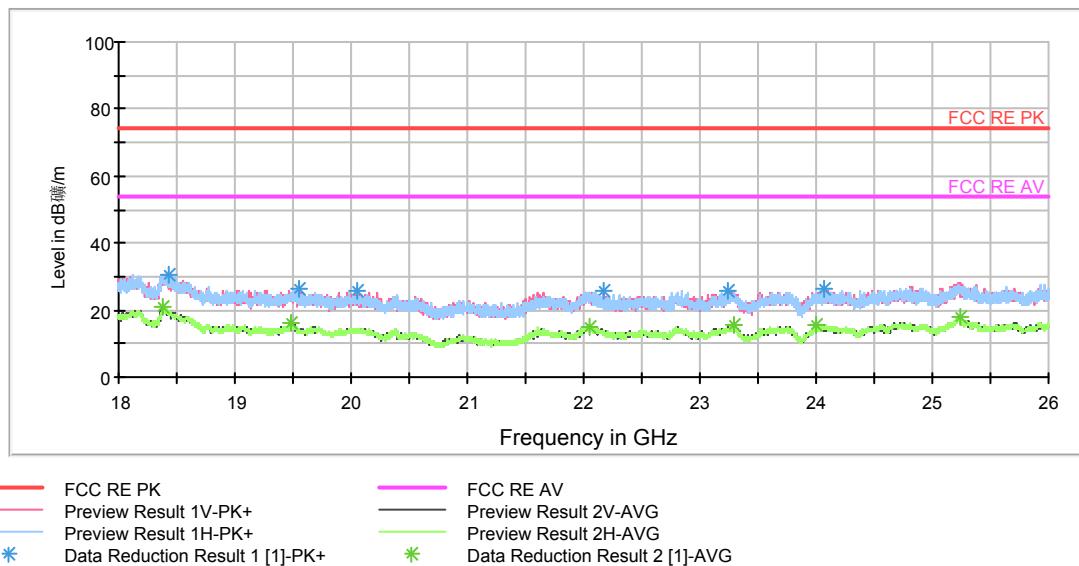
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3808.125000 | 30.4 | 100.0 | V | 203.0 | 30.0 | -0.4 | 23.6 | 54 |
| 5118.750000 | 34.0 | 100.0 | H | 260.0 | 30.4 | -3.6 | 20.0 | 54 |
| 6879.375000 | 36.4 | 100.0 | H | 196.0 | 29.6 | -6.8 | 17.6 | 54 |
| 9755.625000 | 38.9 | 100.0 | H | 354.0 | 27.2 | -11.7 | 15.1 | 54 |
| 13080.000000 | 42.3 | 100.0 | V | 233.0 | 26.1 | -16.2 | 11.7 | 54 |
| 17988.750000 | 50.5 | 100.0 | H | 306.0 | 25.2 | -25.3 | 3.5 | 54 |

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18429.000000 | 30.7 | H | 0.0 | 25.4 | -5.3 | 43.3 | 74 |
| 19544.000000 | 26.2 | V | 0.0 | 18.8 | -7.4 | 47.8 | 74 |
| 20053.000000 | 26.0 | V | 0.0 | 18.0 | -8.0 | 48.0 | 74 |
| 22165.000000 | 25.6 | V | 0.0 | 17.0 | -8.6 | 48.4 | 74 |
| 23238.000000 | 25.5 | V | 0.0 | 17.6 | -7.9 | 48.5 | 74 |
| 24063.000000 | 26.3 | V | 0.0 | 18.5 | -7.8 | 47.7 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18429.000000 | 19.1 | H | 0.0 | 13.8 | -5.3 | 34.9 | 54 |
| 19544.000000 | 14.5 | V | 0.0 | 7.1 | -7.4 | 39.5 | 54 |
| 20053.000000 | 14.2 | V | 0.0 | 6.2 | -8.0 | 39.8 | 54 |
| 22165.000000 | 13.4 | V | 0.0 | 4.8 | -8.6 | 40.6 | 54 |
| 23238.000000 | 13.9 | V | 0.0 | 6.0 | -7.9 | 40.1 | 54 |
| 24063.000000 | 15.2 | V | 0.0 | 7.4 | -7.8 | 38.8 | 54 |

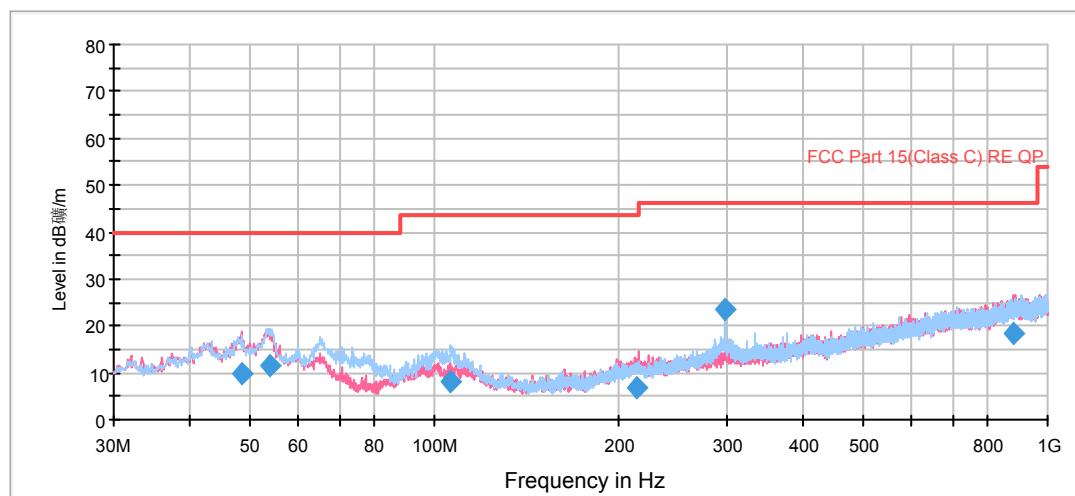
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3DH5-Channel 78

RE 30M-1GHz QP



— FCC Part 15(Class C) RE QP
 — Preview Result 1V-PK+
 Preview Result 1H-PK+ ♦ Final Result 1-QPK

Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font ($\text{Level in } \text{dB}_{\text{BvU/m}}$)in the test plot =(level in dB_{BvU/m})

| Frequency (MHz) | Quasi-Peak (dB _{BvU/m}) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dB _{BvU/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{BvU/m}) |
|-----------------|-----------------------------------|-------------|--------------|---------------|--------------------------------------|---------------------|-------------|------------------------------|
| 48.388925 | 9.9 | 100.0 | V | 188.0 | -10.4 | -20.3 | 30.1 | 40.0 |
| 53.791534 | 11.5 | 100.0 | V | 162.0 | -9.3 | -20.8 | 28.5 | 40.0 |
| 106.079638 | 8.1 | 100.0 | H | 25.0 | -17.7 | -25.8 | 35.4 | 43.5 |
| 214.368750 | 6.9 | 100.0 | V | 231.0 | -18.7 | -25.6 | 36.6 | 43.5 |
| 297.010000 | 23.6 | 121.0 | H | 17.0 | 0.2 | -23.4 | 22.4 | 46.0 |
| 880.060750 | 18.2 | 125.0 | V | 172.0 | 5.3 | -12.9 | 27.8 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

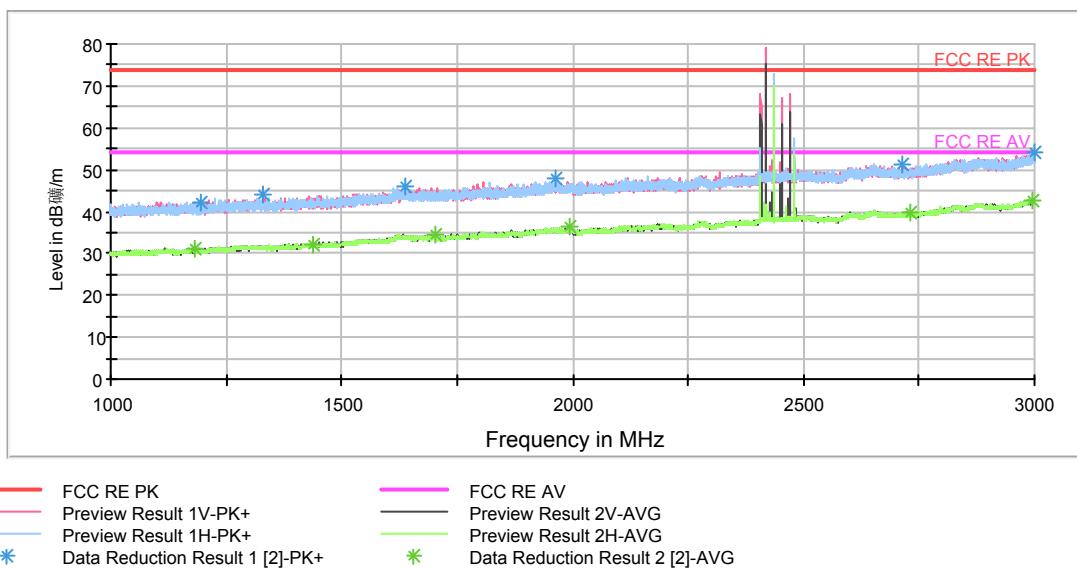
3. Margin = Limit – Quasi-Peak

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RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dBm/m) in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1183.500000 | 40.0 | 100.0 | H | 18.0 | 31.9 | -8.1 | 34.0 | 74 |
| 1436.250000 | 42.4 | 100.0 | H | 238.0 | 35.5 | -6.9 | 31.6 | 74 |
| 1704.750000 | 44.7 | 100.0 | H | 0.0 | 39.8 | -4.9 | 29.3 | 74 |
| 1992.500000 | 45.8 | 100.0 | H | 124.0 | 42.5 | -3.3 | 28.2 | 74 |
| 2731.250000 | 49.2 | 100.0 | H | 89.0 | 48.7 | -0.5 | 24.8 | 74 |
| 2994.250000 | 52.4 | 100.0 | V | 291.0 | 50.1 | -2.3 | 21.6 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

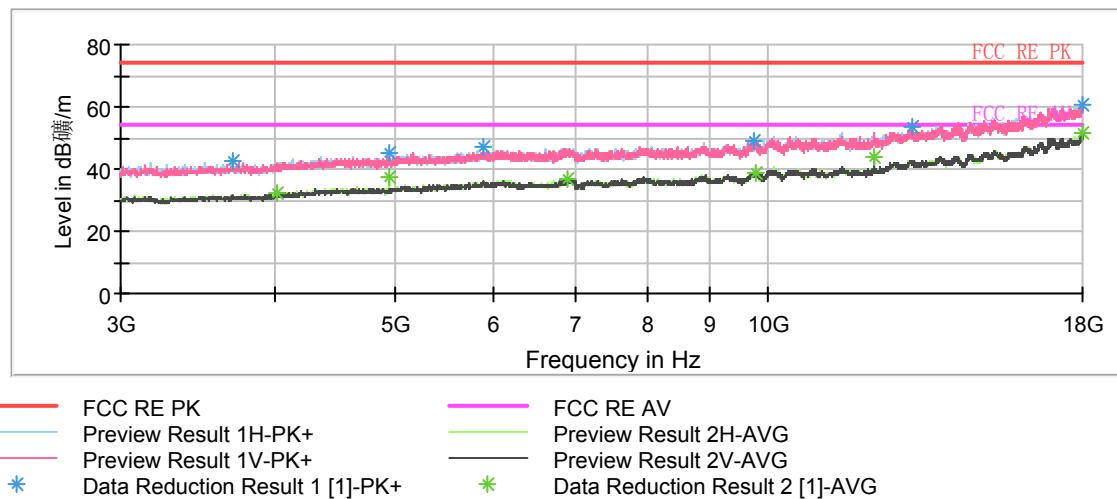
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1183.500000 | 31.3 | 100.0 | H | 18.0 | 23.2 | -8.1 | 22.7 | 54 |
| 1436.250000 | 32.2 | 100.0 | H | 238.0 | 25.3 | -6.9 | 21.8 | 54 |
| 1704.750000 | 34.4 | 100.0 | H | 0.0 | 29.5 | -4.9 | 19.6 | 54 |
| 1992.500000 | 36.3 | 100.0 | H | 124.0 | 33.0 | -3.3 | 17.7 | 54 |
| 2731.250000 | 39.5 | 100.0 | H | 89.0 | 39.0 | -0.5 | 14.5 | 54 |
| 2994.250000 | 42.8 | 100.0 | V | 291.0 | 40.5 | -2.3 | 11.2 | 54 |

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RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3701.250000 | 42.3 | 100.0 | V | 137.0 | 42.0 | -0.3 | 31.7 | 74 |
| 4950.000000 | 45.5 | 100.0 | H | 277.0 | 42.4 | -3.1 | 28.5 | 74 |
| 5902.500000 | 47.3 | 100.0 | H | 134.0 | 41.1 | -6.2 | 26.7 | 74 |
| 9776.250000 | 49.0 | 100.0 | H | 167.0 | 37.0 | -12.0 | 25.0 | 74 |
| 13096.875000 | 53.3 | 100.0 | H | 0.0 | 37.1 | -16.2 | 20.7 | 74 |
| 17970.000000 | 60.9 | 100.0 | V | 107.0 | 35.8 | -25.1 | 13.1 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

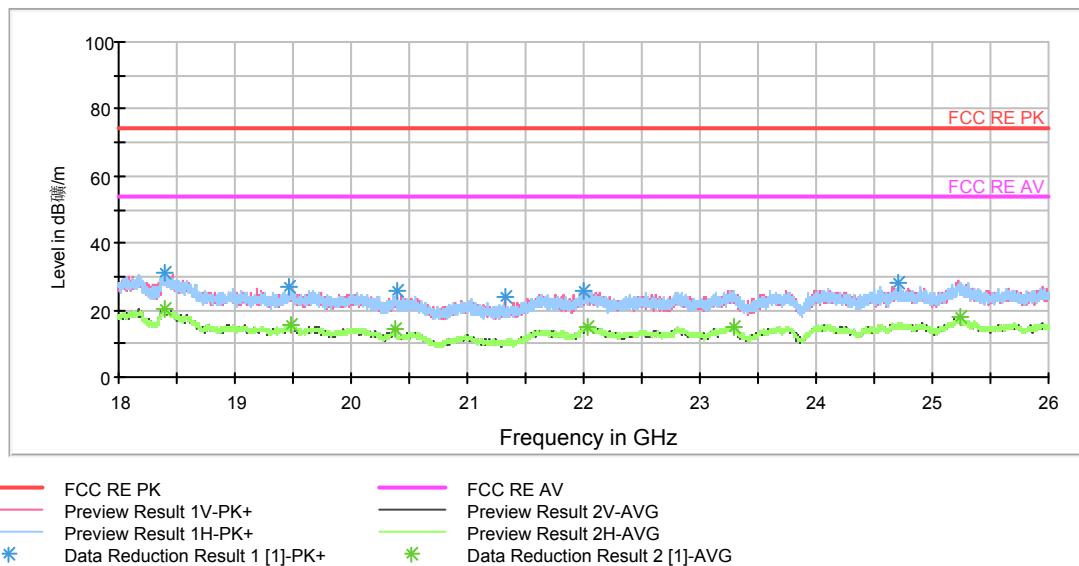
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3701.250000 | 30.6 | 100.0 | V | 137.0 | 30.3 | -0.3 | 23.4 | 54 |
| 4950.000000 | 37.5 | 100.0 | H | 277.0 | 34.4 | -3.1 | 16.5 | 54 |
| 5902.500000 | 35.1 | 100.0 | H | 134.0 | 28.9 | -6.2 | 18.9 | 54 |
| 9776.250000 | 38.0 | 100.0 | H | 167.0 | 26.0 | -12.0 | 16.0 | 54 |
| 13096.875000 | 41.6 | 100.0 | H | 0.0 | 25.4 | -16.2 | 12.4 | 54 |
| 17970.000000 | 50.0 | 100.0 | V | 107.0 | 24.9 | -25.1 | 4.0 | 54 |

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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB_{uV/m}) in the test plot =(level in dB_{uV/m})

| Frequency (MHz) | Peak (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|----------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18394.000000 | 31.2 | H | 0.0 | 26.3 | -4.9 | 42.8 | 74 |
| 19463.000000 | 27.2 | V | 0.0 | 19.0 | -8.2 | 46.8 | 74 |
| 20388.000000 | 25.6 | H | 0.0 | 17.5 | -8.1 | 48.4 | 74 |
| 21319.000000 | 23.8 | V | 0.0 | 14.2 | -9.6 | 50.2 | 74 |
| 22004.000000 | 25.8 | H | 0.0 | 17.5 | -8.3 | 48.2 | 74 |
| 24704.000000 | 28.0 | H | 0.0 | 21.3 | -6.7 | 46.0 | 74 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dB _{uV/m}) | Polarization | Azimuth (deg) | Reading value (dB _{uV/m}) | Correct Factor (dB) | Margin (dB) | Limit (dB _{uV/m}) |
|-----------------|-------------------------------|--------------|---------------|-------------------------------------|---------------------|-------------|-----------------------------|
| 18394.000000 | 20.0 | H | 0.0 | 15.1 | -4.9 | 34.0 | 54 |
| 19463.000000 | 15.0 | V | 0.0 | 6.8 | -8.2 | 39.0 | 54 |
| 20388.000000 | 14.0 | H | 0.0 | 5.9 | -8.1 | 40.0 | 54 |
| 21319.000000 | 10.2 | V | 0.0 | 0.6 | -9.6 | 43.8 | 54 |
| 22004.000000 | 13.8 | H | 0.0 | 5.5 | -8.3 | 40.2 | 54 |
| 24704.000000 | 15.5 | H | 0.0 | 8.8 | -6.7 | 38.5 | 54 |

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3.12. Conducted Emission

The EUT is not application for CE test.

Note: When The EUT is charging, BT is stopped.

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4. Main Test Instruments

| No . | Name | Type | Manufacturer | Serial Number | Calibration Date | Expiration Time | Valid Period |
|------|--------------------------------------|--------------|--------------|---------------|------------------|-----------------|--------------|
| 01 | BT Base Station Simulator | CBT | R&S | 100271 | 2015-04-26 | 2016-04-25 | 1 year |
| 02 | Loop Antenna | FMZB1516 | SCHWARZBECK | 237 | 2014-06-29 | 2016-06-28 | 2 years |
| 03 | EMI Test Receiver | ESCS30 | R&S | 100138 | 2014-12-17 | 2015-12-16 | 1 year |
| 04 | LISN | ENV216 | R&S | 101171 | 2014-12-17 | 2015-12-16 | 1 year |
| 05 | EMI Test Receiver | ESCI | R&S | 100948 | 2015-04-26 | 2016-04-25 | 1 year |
| 06 | TRILOG Broadband Antenna | VULB 9163 | Schwarzbeck | 9163-201 | 2013-11-25 | 2016-11-24 | 3 years |
| 07 | Double Ridged Waveguide Horn Antenna | HF907 | R&S | 100126 | 2015-07-01 | 2018-06-30 | 3 years |
| 08 | PSG Analog Signal Generator | E8257D | Agilent | MY49281101 | 2015-04-26 | 2016-04-25 | 1 year |
| 09 | ESG Vector Signal Generator | E4438C | Agilent | MY49070900 | 2015-04-26 | 2016-04-25 | 1 year |
| 10 | Spectrum Analyzer | E4445A | Agilent | MY46181146 | 2015-04-26 | 2016-04-25 | 1 year |
| 11 | Power Splitter | SHX-GF2-2-13 | Hua Xiang | 10120101 | NA | NA | NA |
| 12 | MOB COMMS DC SUPPLY | 66319D | Agilent | MY43004105 | 2015-04-26 | 2016-04-25 | 1 year |
| 13 | Power Sensor | E9304A | Agilent | MY50220022 | 2015-04-26 | 2016-04-25 | 1 year |
| 14 | Power Meter | E4418B | Agilent | MY50000623 | 2015-04-26 | 2016-04-25 | 1 year |
| 15 | Vibration table | ESS-050-120 | dongling | D1007126 | 2013-08-21 | 2016-08-20 | 3 years |
| 16 | Spectrum Analyzer | FSV30 | R&S | 100815 | 2014-12-18 | 2015-12-17 | 1 year |
| 17 | Standard Gain Horn | 3160-09 | ETS-Lindgren | 00102644 | 2015-05-19 | 2018-05-18 | 3 years |
| 18 | RF Cable | SMA 15cm | Agilent | 0001 | 2015-06-07 | 2015-08-06 | 2 Months |

*****END OF REPORT *****

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ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



a: EUT

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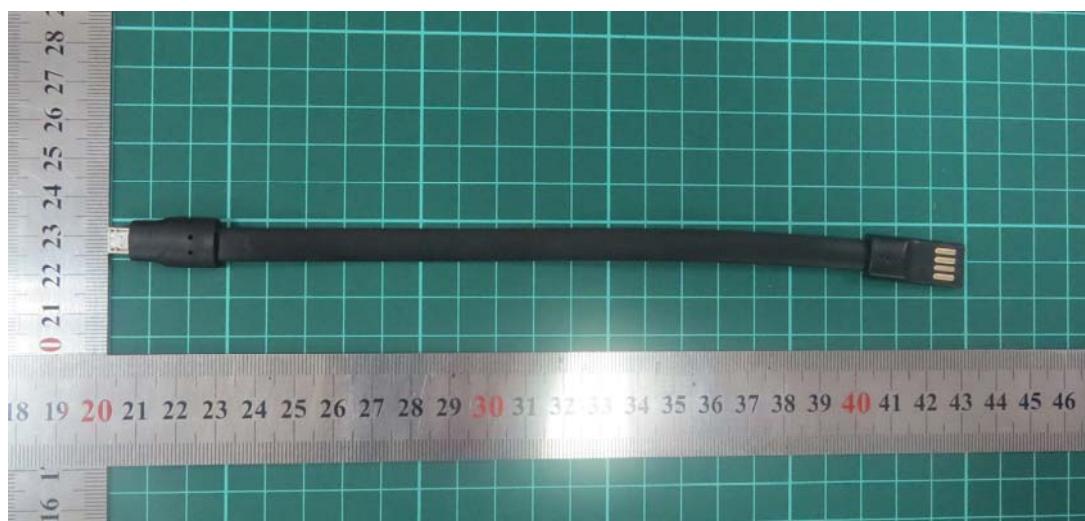
b: Adapter



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C : Accessory

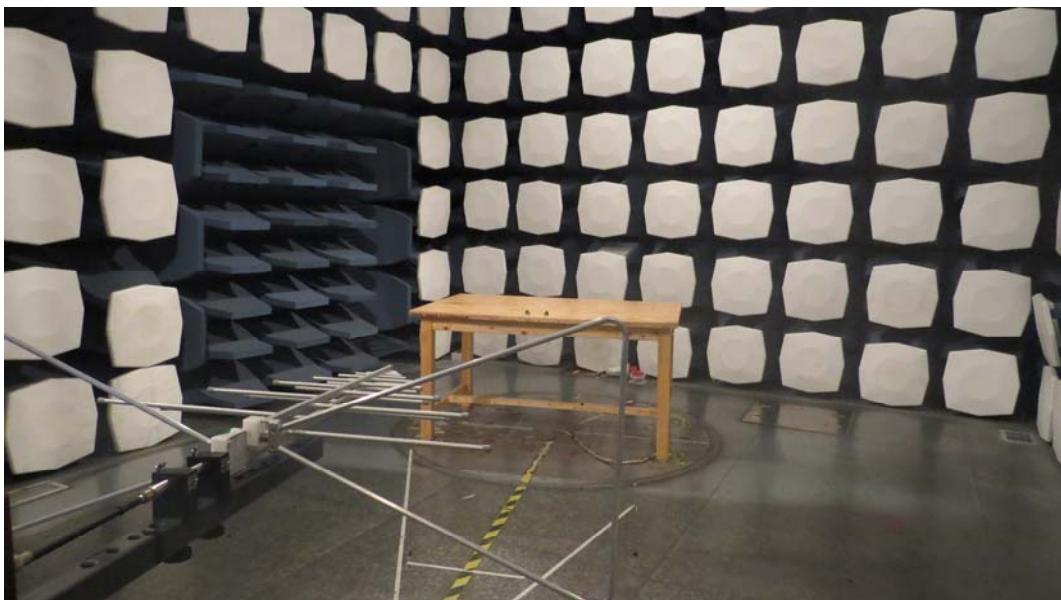
Picture 1 EUT

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A.2 Test Setup



30M Hz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup