



## 6. 20dB Occupy Bandwidth Test

### 6.1. Test Standard and Limit

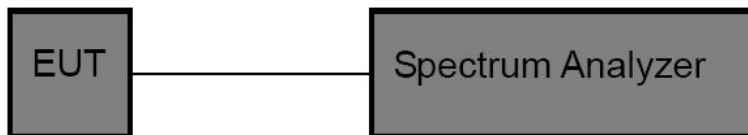
#### 6.1.1 Test Standard

FCC Part15 C Section 15.247 (a)(1)

#### 6.1.2 Test Limit

| FCC Part 15 Subpart C(15.247) |                |                       |
|-------------------------------|----------------|-----------------------|
| Test Item                     | Limit          | Frequency Range (MHz) |
| Bandwidth                     | 20dB bandwidth | 2400~2483.5           |

### 6.2. Test Setup



### 6.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:  
Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

### 6.4. Test Data

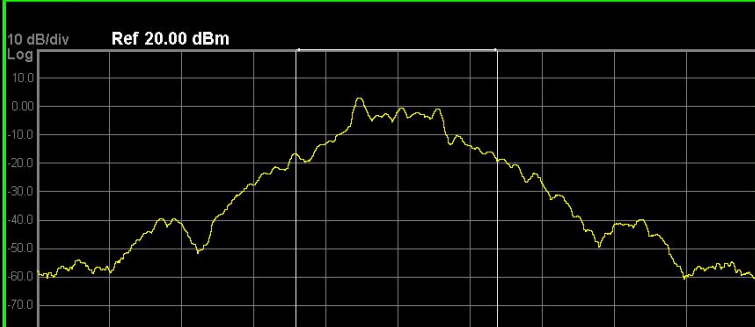
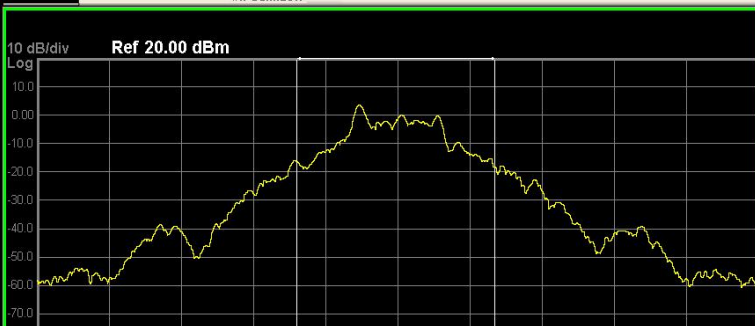
| Channel Number               | Channel Frequency | 20dB Bandwidth (MHz) |                |       |
|------------------------------|-------------------|----------------------|----------------|-------|
|                              |                   | GFSK                 | $\pi/4$ -DQPSK | 8DPSK |
| CH 00                        | 2402(MHz)         | 0.8351               | 1.282          | 1.259 |
| CH 39                        | 2441(MHz)         | 0.8283               | 1.278          | 1.262 |
| CH 78                        | 2480(MHz)         | 0.8286               | 1.281          | 1.258 |
| Remark: Test plot as follows |                   |                      |                |       |



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| Modulation mode |  | GFSK mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-----------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 2402MHz         |  | <div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>Center Freq 2.40200000 GHz</div><div>Center Freq: 2.402000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB</div><div>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Ref 20.00 dBm</div><div>Log</div><div></div><div><div>Center 2.402 GHz</div><div>#Res BW 30 kHz</div><div>#VBW 100 kHz</div><div>Span 3 MHz</div><div>Sweep 3.2 ms</div></div><div><div>Occupied Bandwidth</div><div>836.70 kHz</div><div>Total Power</div><div>9.49 dBm</div><div>Transmit Freq Error</div><div>-4.467 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>835.1 kHz</div><div>x dB</div><div>-20.00 dB</div></div><div>MSG</div><div>STATUS</div></div></div>   |  |
| 2441MHz         |  | <div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>Center Freq 2.44100000 GHz</div><div>Center Freq: 2.441000000 GHz<br/>Trig: Free Run<br/>#Atten: 10 dB</div><div>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Ref 20.00 dBm</div><div>Log</div><div></div><div><div>Center 2.441 GHz</div><div>#Res BW 30 kHz</div><div>#VBW 100 kHz</div><div>Span 3 MHz</div><div>Sweep 3.2 ms</div></div><div><div>Occupied Bandwidth</div><div>823.11 kHz</div><div>Total Power</div><div>9.91 dBm</div><div>Transmit Freq Error</div><div>-8.109 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>828.3 kHz</div><div>x dB</div><div>-20.00 dB</div></div><div>MSG</div><div>STATUS</div></div></div> |  |



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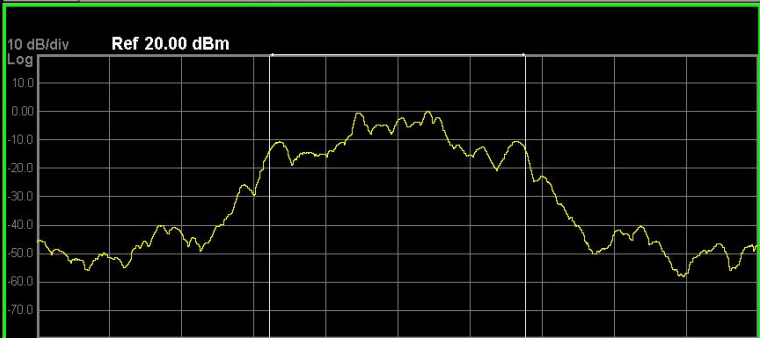
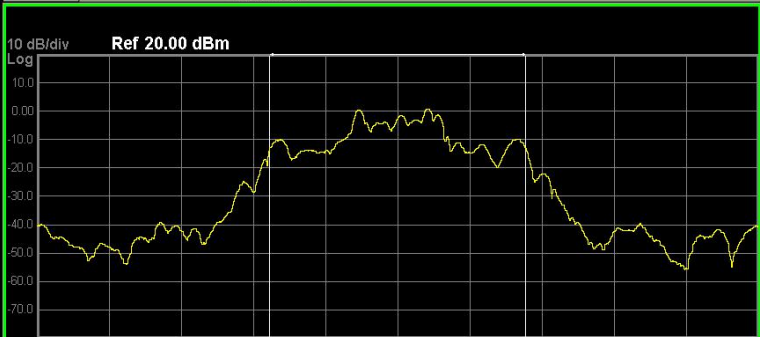




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| Modulation mode |  | $\pi/4$ -DQPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                 |
|-----------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2402MHz         |  | <div><p>Agilent Spectrum Analyzer - Occupied BW</p><p>Center Freq 2.402000000 GHz</p><p>Center Freq: 2.402000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB</p><p>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</p><p>Center 2.402 GHz<br/>#Res BW 30 kHz<br/>#VBW 100 kHz<br/>Span 3 MHz<br/>Sweep 3.2 ms</p><p>Occupied Bandwidth 1.0625 MHz<br/>Total Power 8.22 dBm</p><p>Transmit Freq Error -1.018 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 1.282 MHz<br/>x dB -20.00 dB</p></div>  | <p>Frequency</p> <p>Center Freq<br/>2.402000000 GHz</p> <p>CF Step<br/>300.000 kHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> |
| 2441MHz         |  | <div><p>Agilent Spectrum Analyzer - Occupied BW</p><p>Center Freq 2.441000000 GHz</p><p>Center Freq: 2.441000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB</p><p>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</p><p>Center 2.441 GHz<br/>#Res BW 30 kHz<br/>#VBW 100 kHz<br/>Span 3 MHz<br/>Sweep 3.2 ms</p><p>Occupied Bandwidth 1.0589 MHz<br/>Total Power 8.89 dBm</p><p>Transmit Freq Error 1.486 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 1.278 MHz<br/>x dB -20.00 dB</p></div> | <p>Frequency</p> <p>Center Freq<br/>2.441000000 GHz</p> <p>CF Step<br/>300.000 kHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> |



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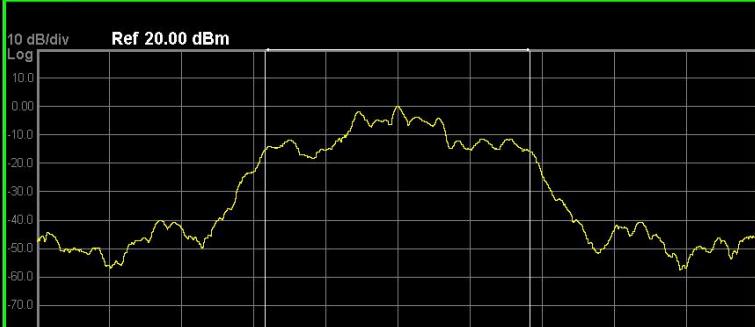
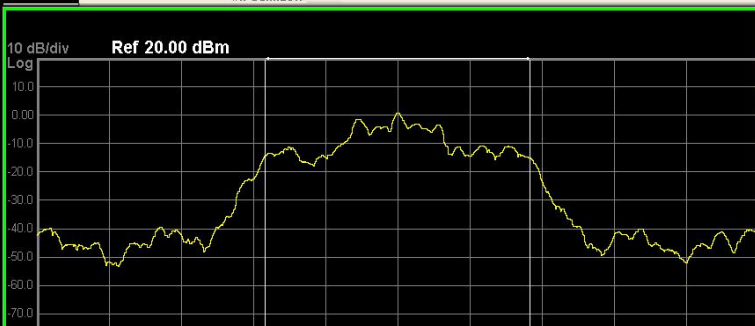




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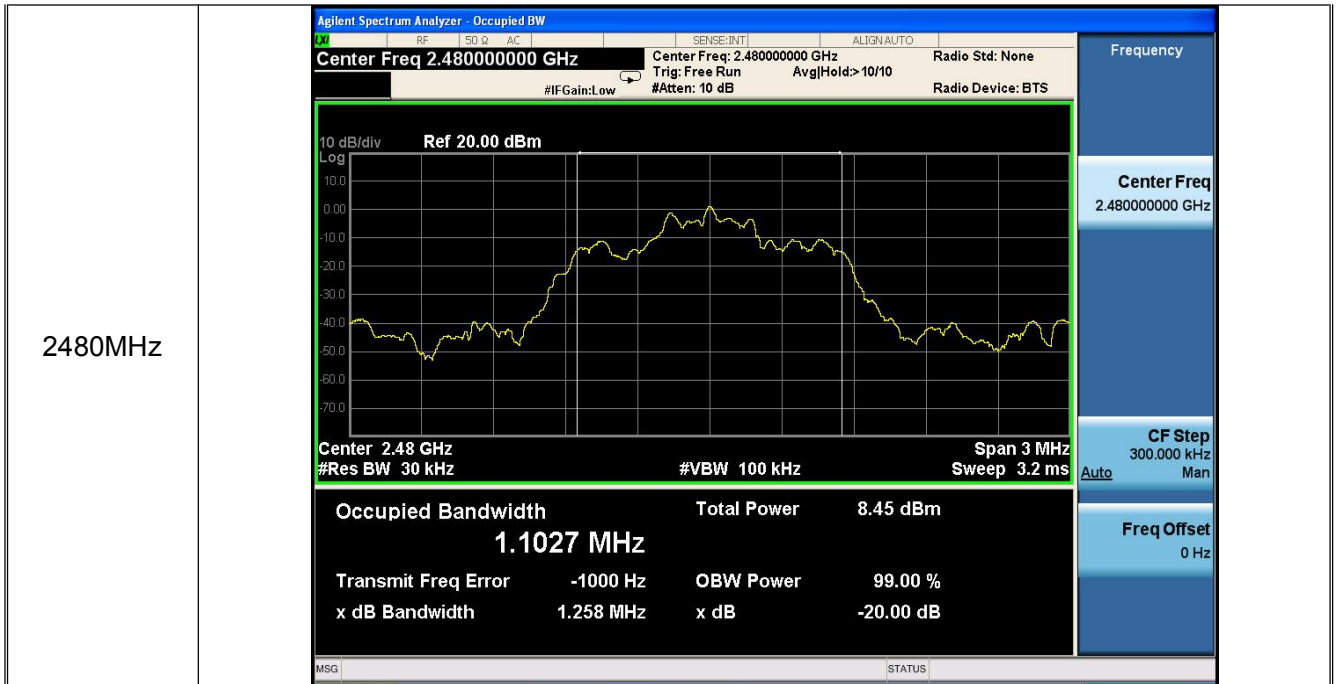
| Modulation mode |  | 8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |
|-----------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2402MHz         |  | <div><p>Agilent Spectrum Analyzer - Occupied BW</p><p>Center Freq 2.402000000 GHz</p><p>Center Freq: 2.402000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB</p><p>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</p><p>Center 2.402 GHz<br/>#Res BW 30 kHz<br/>#VBW 100 kHz<br/>Span 3 MHz<br/>Sweep 3.2 ms</p><p>Occupied Bandwidth 1.1012 MHz<br/>Total Power 7.67 dBm</p><p>Transmit Freq Error -1.606 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 1.259 MHz<br/>x dB -20.00 dB</p></div>   | <p>Frequency</p> <p>Center Freq<br/>2.402000000 GHz</p> <p>CF Step<br/>300.000 kHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> |
| 2441MHz         |  | <div><p>Agilent Spectrum Analyzer - Occupied BW</p><p>Center Freq 2.441000000 GHz</p><p>Center Freq: 2.441000000 GHz<br/>Trig: Free Run<br/>#Gain: Low<br/>#Atten: 10 dB</p><p>Radio Std: None<br/>Avg Hold: &gt; 10/10<br/>Radio Device: BTS</p><p>Center 2.441 GHz<br/>#Res BW 30 kHz<br/>#VBW 100 kHz<br/>Span 3 MHz<br/>Sweep 3.2 ms</p><p>Occupied Bandwidth 1.1012 MHz<br/>Total Power 8.37 dBm</p><p>Transmit Freq Error -1.538 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 1.262 MHz<br/>x dB -20.00 dB</p></div> | <p>Frequency</p> <p>Center Freq<br/>2.441000000 GHz</p> <p>CF Step<br/>300.000 kHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> |



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## 7. Carrier Frequency Separation Test

### 7.1. Test Standard and Limit

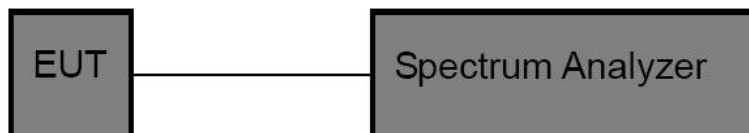
#### 7.1.1 Test Standard

FCC Part15 C Section 15.247 (a)(1)

#### 7.1.2 Test Limit

| FCC Part 15 Subpart C(15.247) |                                                                 |                       |
|-------------------------------|-----------------------------------------------------------------|-----------------------|
| Test Item                     | Limit                                                           | Frequency Range (MHz) |
| Channel Separation            | >25KHz or >two-thirds of the 20 dB bandwidth (Which is greater) | 2400~2483.5           |

### 7.2. Test Setup



### 7.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:  
RBW=100 kHz, VBW=300 kHz, detector= Peak, Sweep Time =auto.
- (3) The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Test.

### 7.4. Test Data



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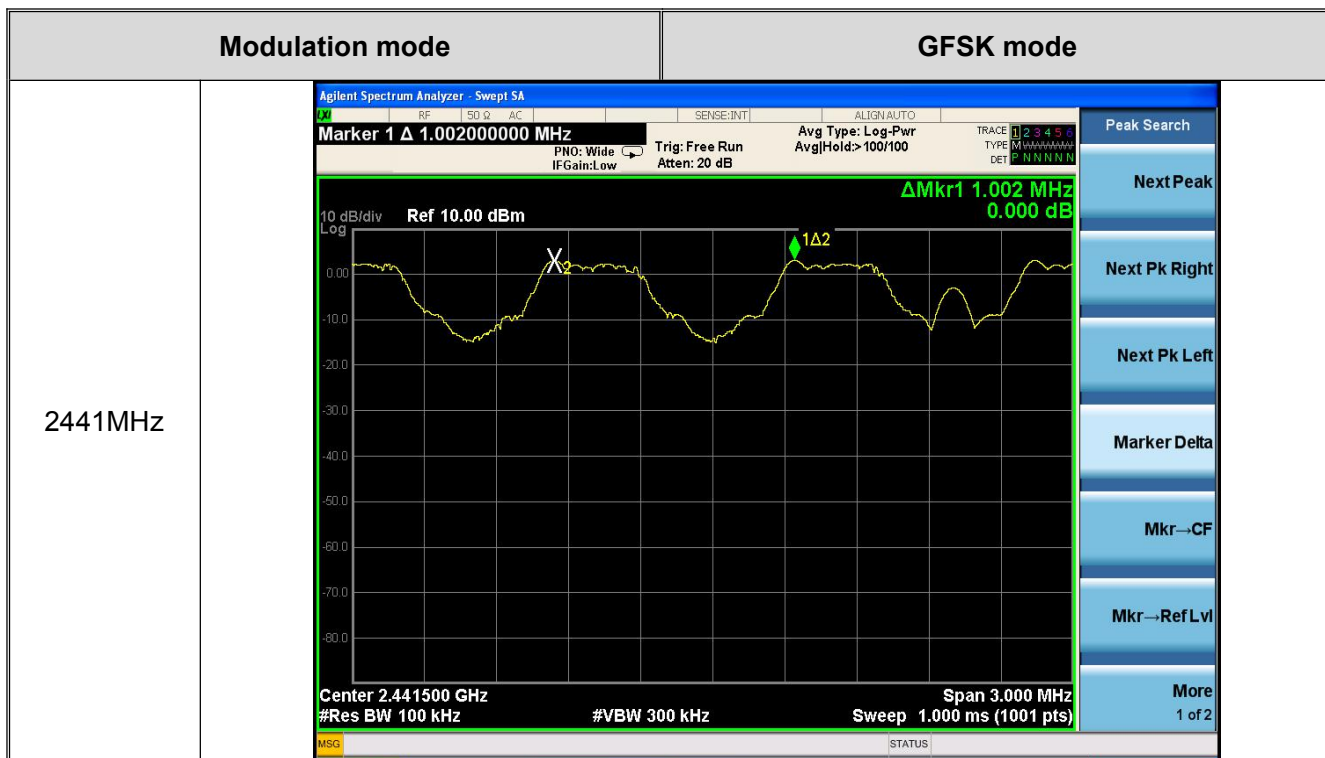
| GFSK mode                    |                         |                   |             |          |
|------------------------------|-------------------------|-------------------|-------------|----------|
| Channel Number               | Channel Frequency (MHz) | Test Result (MHz) | Limit (MHz) | Judgment |
| CH 39                        | 2441                    | 1.002             | 0.55        | PASSED   |
| $\pi/4$ -DQPSK mode          |                         |                   |             |          |
| Channel Number               | Channel Frequency (MHz) | Test Result (MHz) | Limit (MHz) | Judgment |
| CH 39                        | 2441                    | 1.005             | 0.85        | PASSED   |
| 8DPSK mode                   |                         |                   |             |          |
| Channel Number               | Channel Frequency (MHz) | Test Result (MHz) | Limit (MHz) | Judgment |
| CH 39                        | 2441                    | 1.002             | 0.84        | PASSED   |
| Remark: Test plot as follows |                         |                   |             |          |

According to section 6.4

| Test Mode      | 20dB bandwidth (MHz)<br>(worse case) | Limit (MHz)<br>(Carrier Frequency Separation) |
|----------------|--------------------------------------|-----------------------------------------------|
| GFSK           | 0.8283                               | 0.55                                          |
| $\pi/4$ -DQPSK | 1.278                                | 0.85                                          |
| 8DPSK          | 1.262                                | 0.84                                          |



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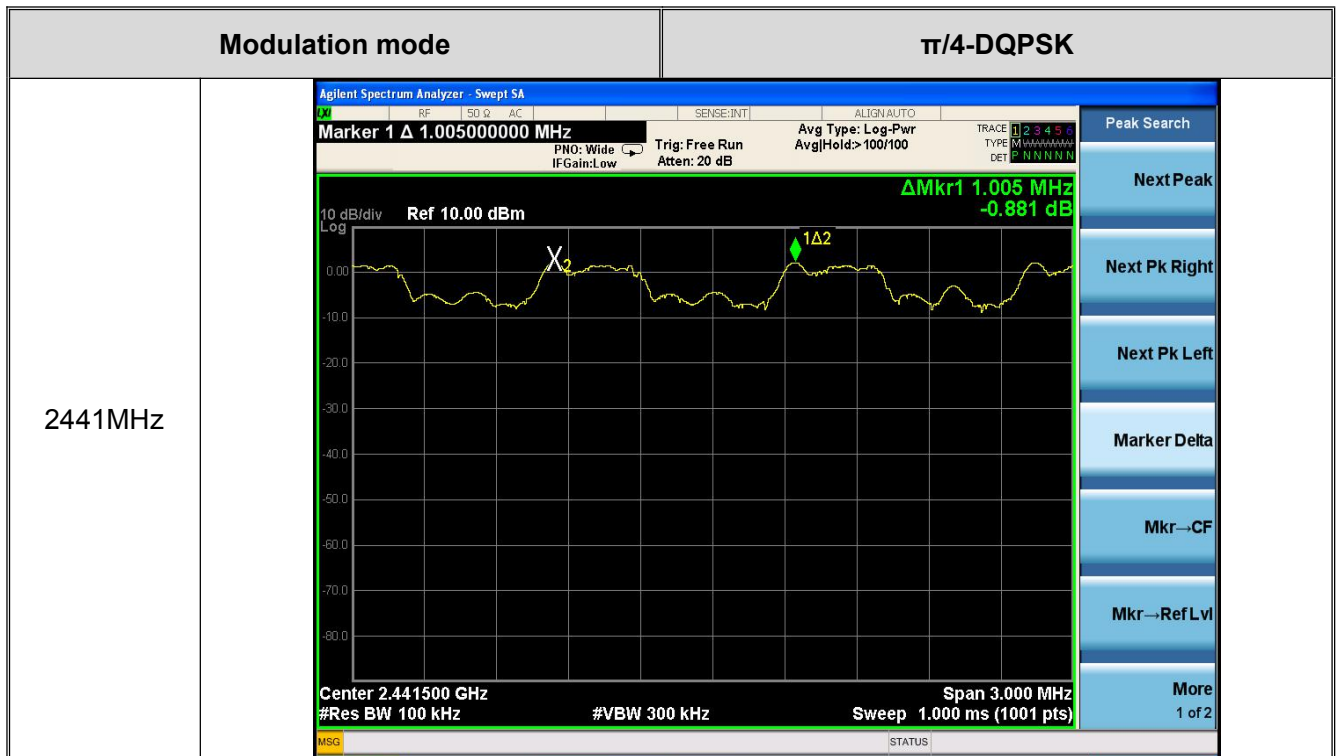




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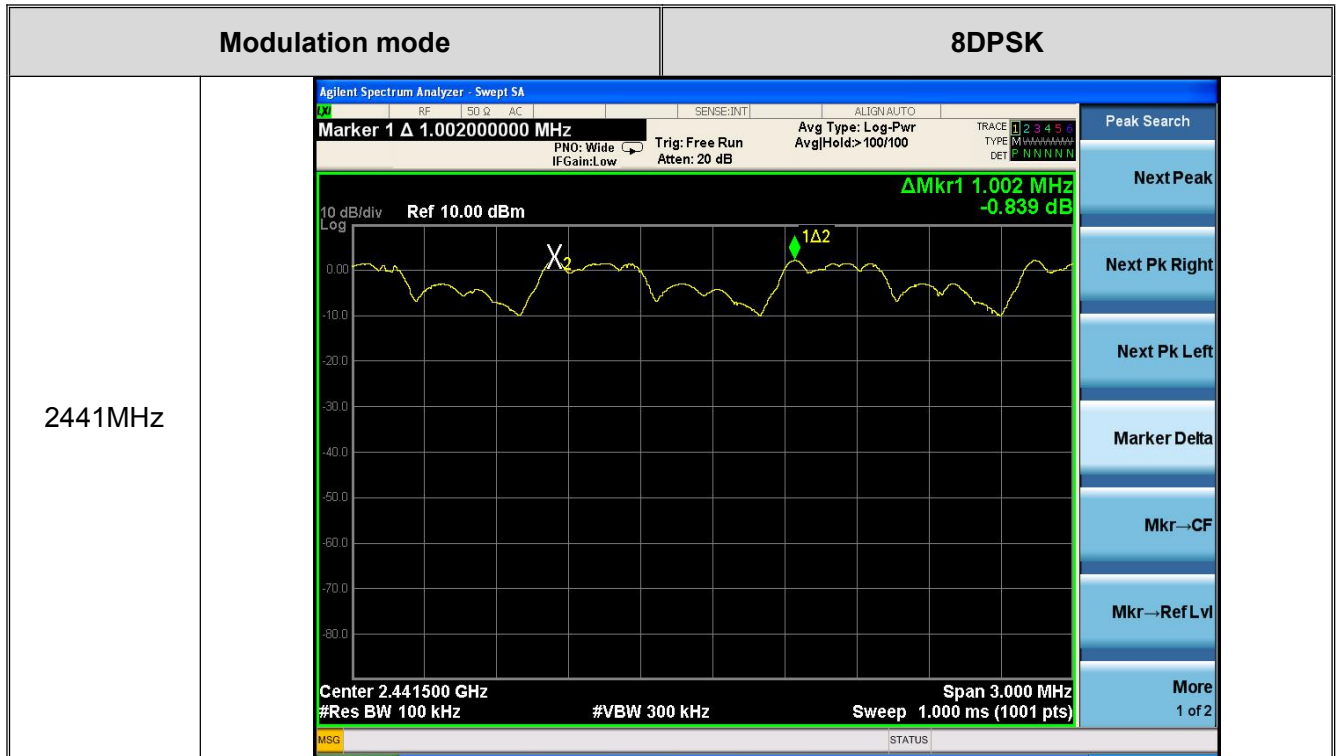




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## 8. Number of Hopping Channel

### 8.1. Test Standard and Limit

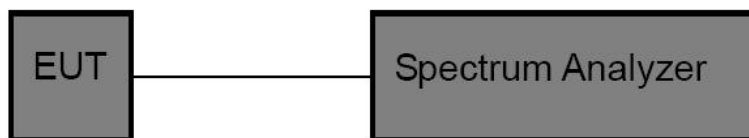
#### 8.1.1 Test Standard

FCC Part15 C Section 15.247 (a)(1)

#### 8.1.2 Test Limit

| FCC Part 15 Subpart C (15.247) |              |                       |
|--------------------------------|--------------|-----------------------|
| Test Item                      | Limit        | Frequency Range (MHz) |
| Number of Hopping Channel      | >15 channels | 2400~2483.5           |

### 8.2. Test Setup



### 8.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 kHz, VBW=300 kHz, Detector=Peak, Sweep time= Auto.
- (3) The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Test.

### 8.4. Test Data

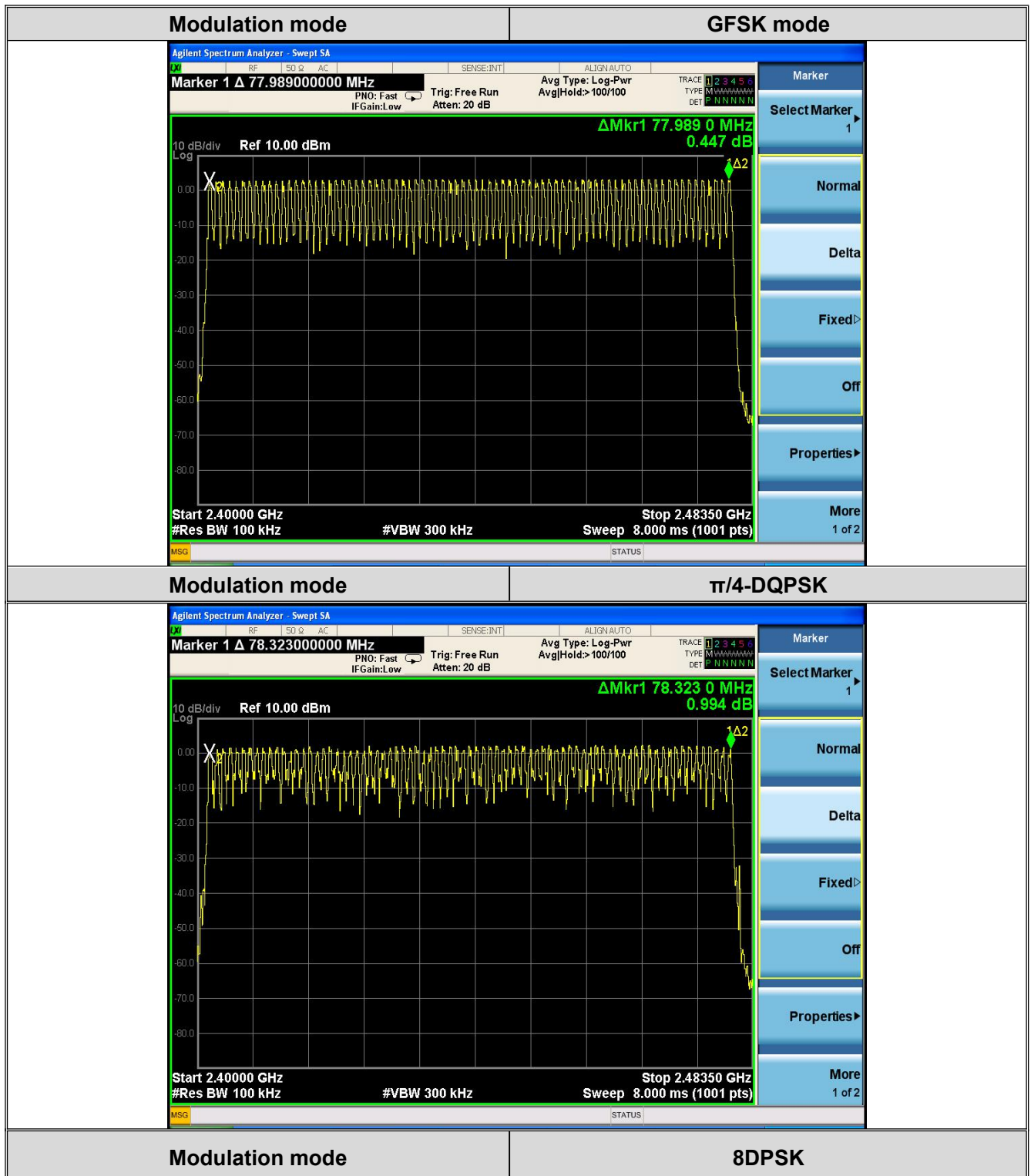
| Mode                        | Quantity of Hopping Channel | Limit | Judgment |
|-----------------------------|-----------------------------|-------|----------|
| GFSK, $\pi/4$ -DQPSK, 8DPSK | 79                          | >15   | PASSED   |



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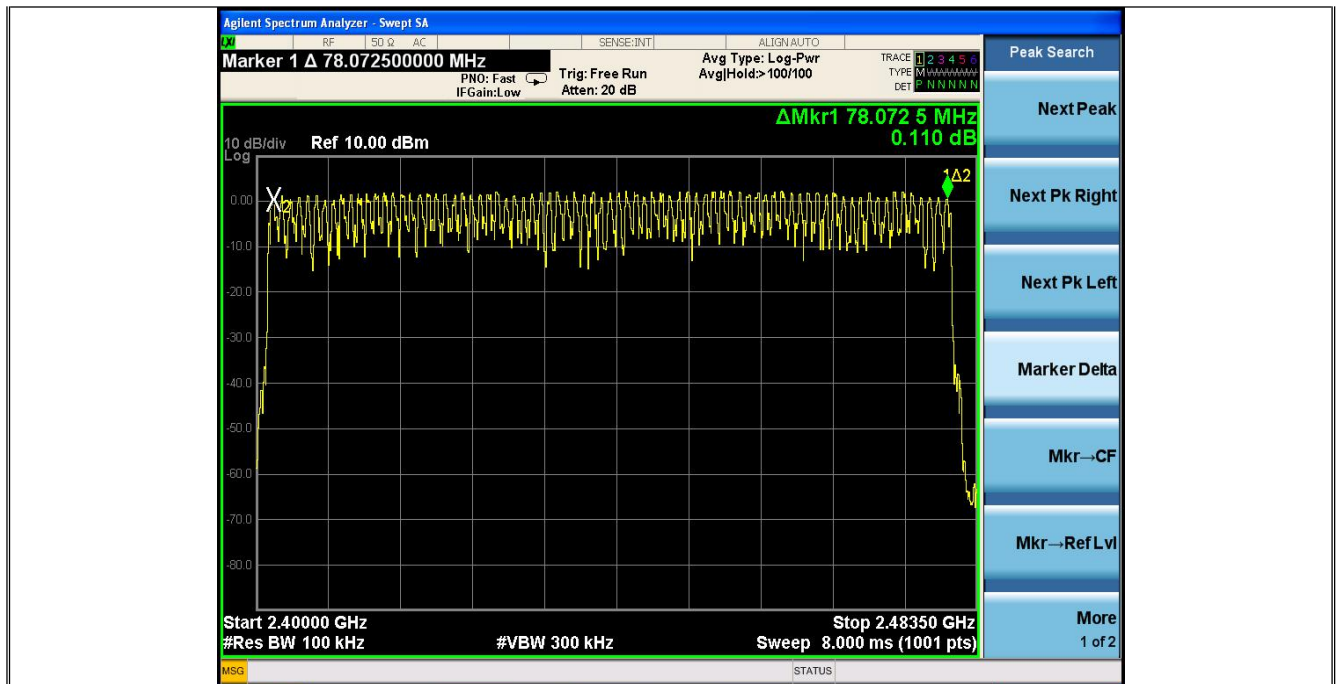




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## 9. Dwell Time Test

### 9.1. Test Standard and Limit

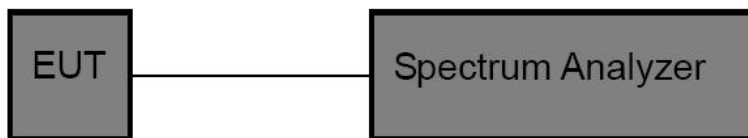
#### 9.1.1 Test Standard

FCC Part15 C Section 15.247 (a)(1)

#### 9.1.2 Test Limit

| FCC Part 15 Subpart C(15.247) |            |         |
|-------------------------------|------------|---------|
| Section                       | Test Item  | Limit   |
| 15.247(a)(1)                  | Dwell time | 0.4 sec |

### 9.2. Test Setup



### 9.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) The EUT was set to the Hopping Mode for Dwell Time Test

### 9.4. Test Data



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For GFSK,  $\pi/4$ -DQPSK and 8DPSK:

The test period:  $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

| Mode          | Data Packet | Frequency (MHz) | Pulse Duration (ms) | Dwell Time (s) | Limit (s) | Conclusion |
|---------------|-------------|-----------------|---------------------|----------------|-----------|------------|
| GFSK          | DH1         | 2441            | 0.36                | 0.115          | <0.4      | PASS       |
|               | DH3         | 2441            | 1.616               | 0.259          | <0.4      | PASS       |
|               | DH5         | 2441            | 2.868               | 0.306          | <0.4      | PASS       |
| $\pi/4$ DQPSK | DH1         | 2441            | 0.376               | 0.120          | <0.4      | PASS       |
|               | DH3         | 2441            | 1.616               | 0.259          | <0.4      | PASS       |
|               | DH5         | 2441            | 2.88                | 0.307          | <0.4      | PASS       |
| 8- DQPSK      | DH1         | 2441            | 0.376               | 0.120          | <0.4      | PASS       |
|               | DH3         | 2441            | 1.624               | 0.260          | <0.4      | PASS       |
|               | DH5         | 2441            | 2.864               | 0.305          | <0.4      | PASS       |

Note: 1 A period time =  $0.4 \text{ (s)} \times 79 = 31.6 \text{ (s)}$

2 DH1 time slot = Pulse Duration \*  $(1600/(2 \times 79))$  \* A period time

DH3 time slot = Pulse Duration \*  $(1600/(4 \times 79))$  \* A period time

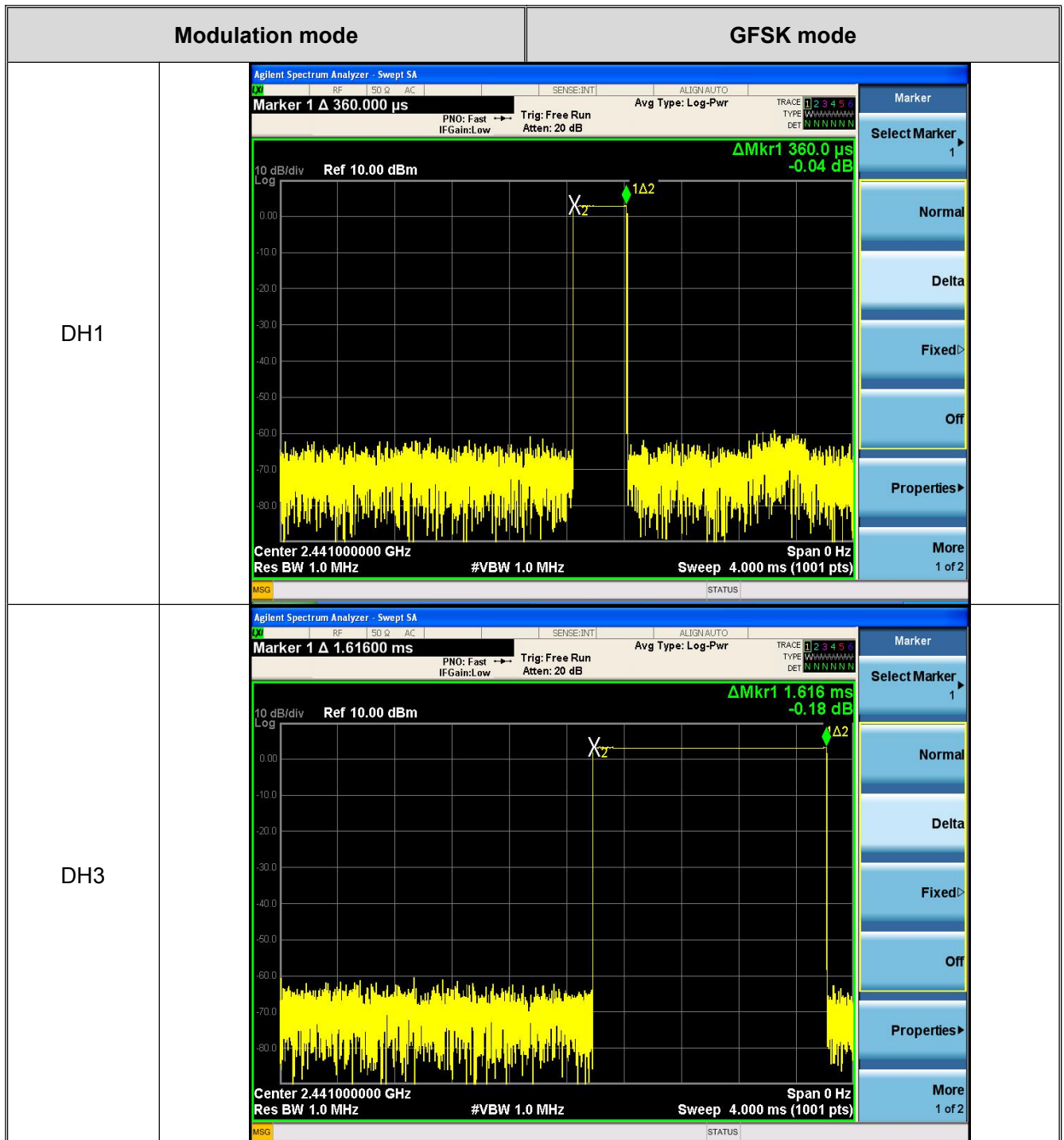
DH5 time slot = Pulse Duration \*  $(1600/(6 \times 79))$  \* A period time



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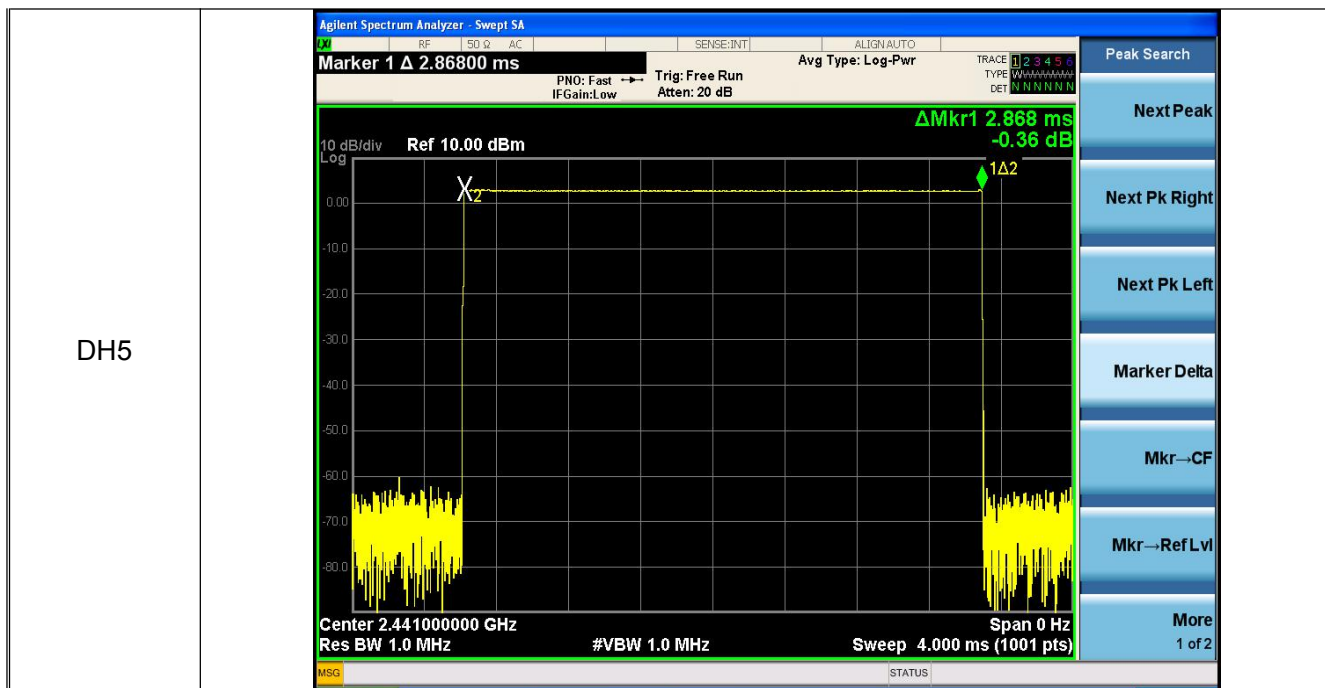
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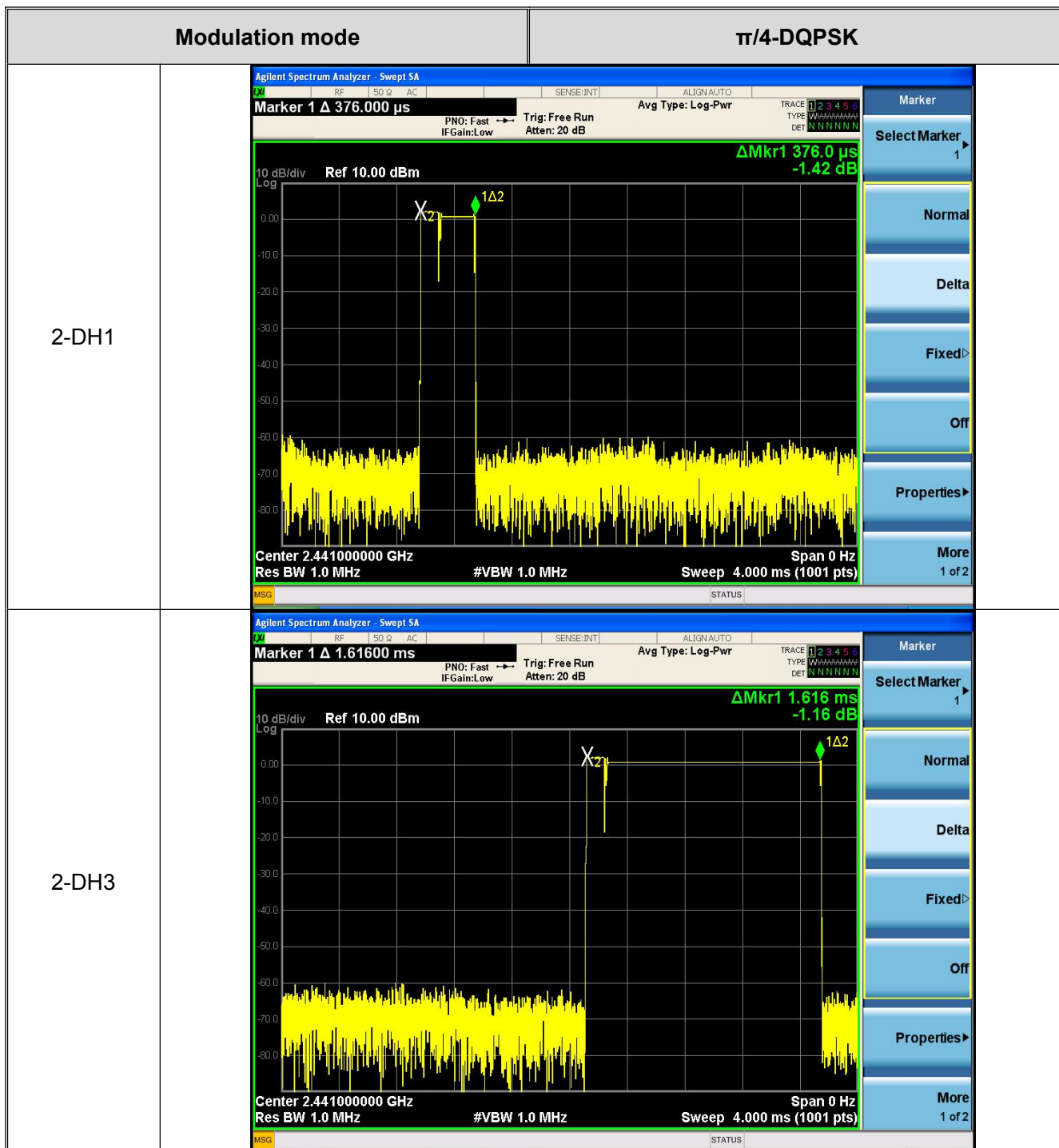


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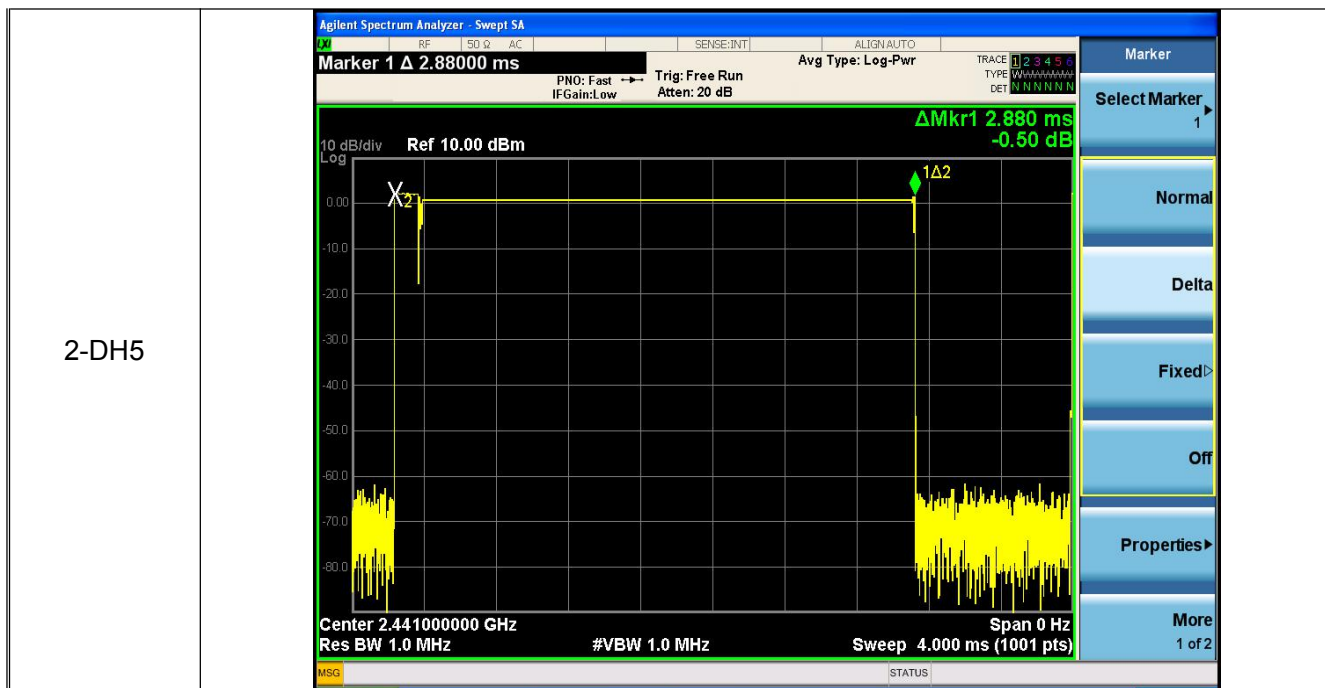


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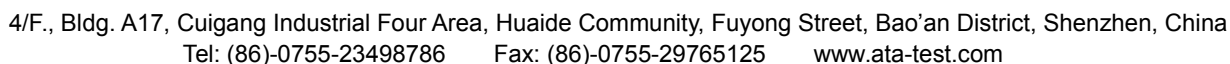


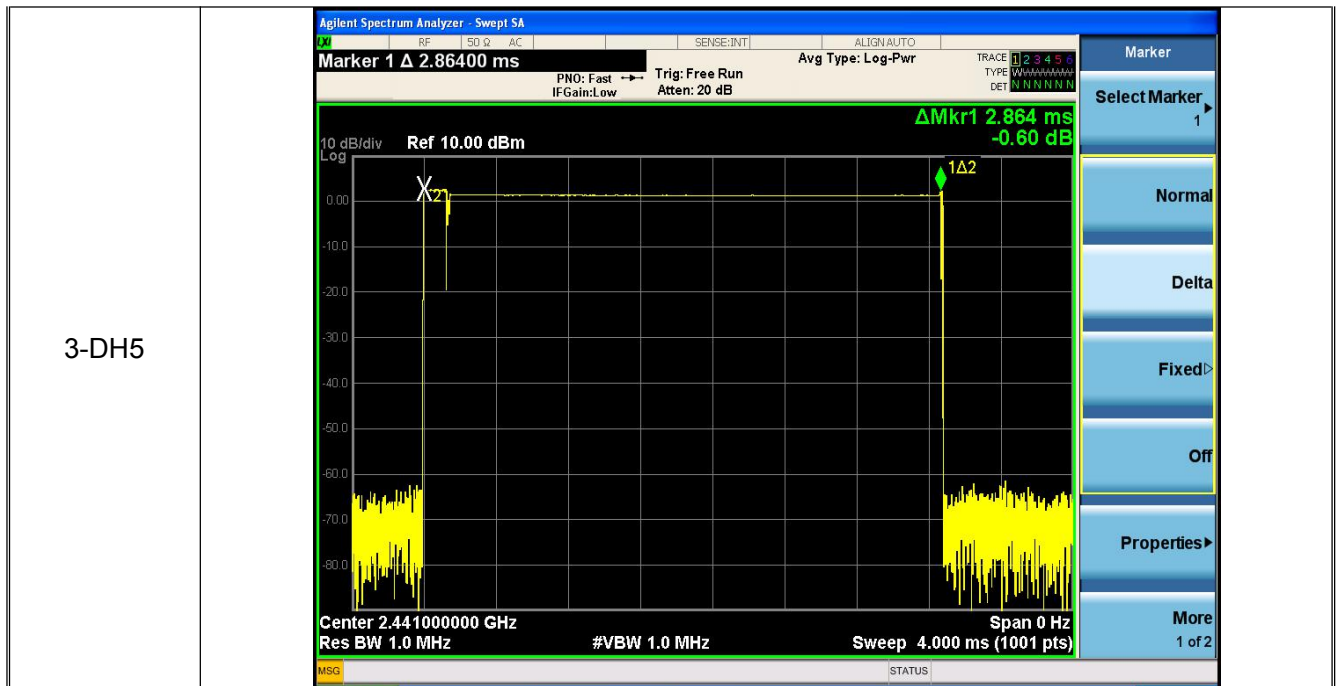
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## 10. Pseudorandom Frequency Hopping Sequence

### 10.1. Standard Requirement

#### 10.1.1 Test Standard

FCC Part15 C Section 15.247 (a)(1)

#### 10.1.2 Requirement

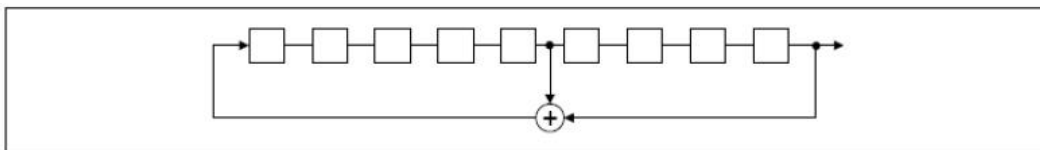
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### 10.2. EUT Pseudorandom Frequency Hopping Sequence

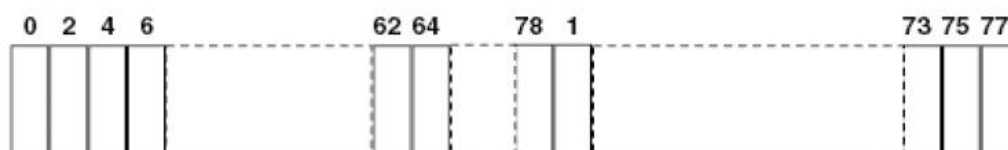
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS Sequence.

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. 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.



## 11. Band Edge Requirement (Conducted Emission Method)

### 11.1. Test Standard and Limit

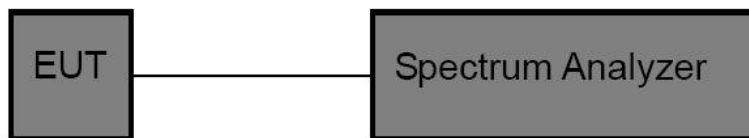
#### 11.1.1 Test Standard

FCC Part15 C Section 15.247 (d)

#### 11.1.2 Test Limit

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, based on either an RF conducted or a radiated measurement.

### 11.2. Test Setup



### 11.3. Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 kHz, VBW=300 kHz, Detector=Peak

### 11.4. Test Data

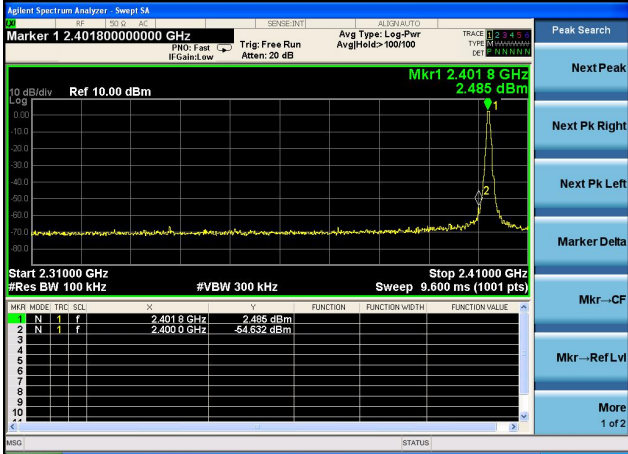
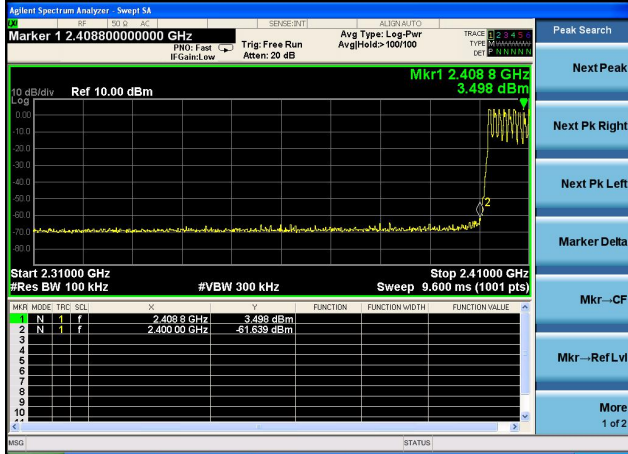
Test plot as follows

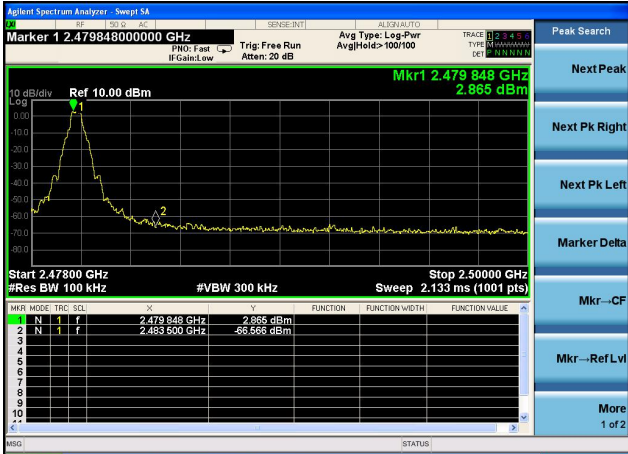
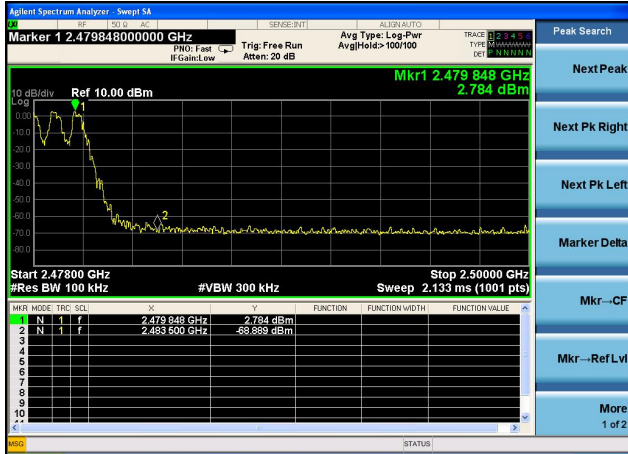


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| Modulation mode                                                                   | GFSK | Test channel                                                                       | Lowest |
|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|--------|
|  |      |  |        |
| No-hopping mode                                                                   |      | Hopping mode                                                                       |        |

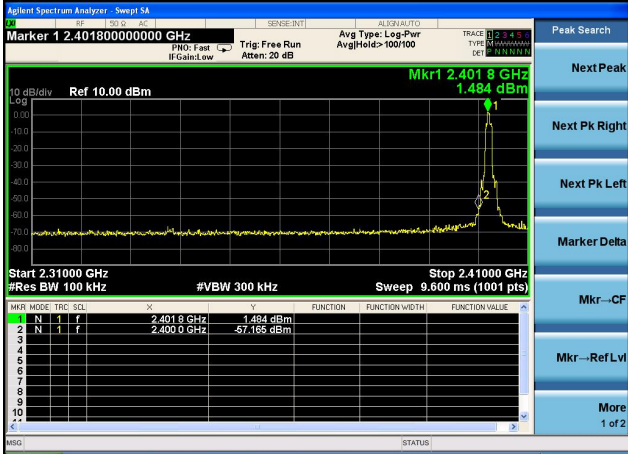
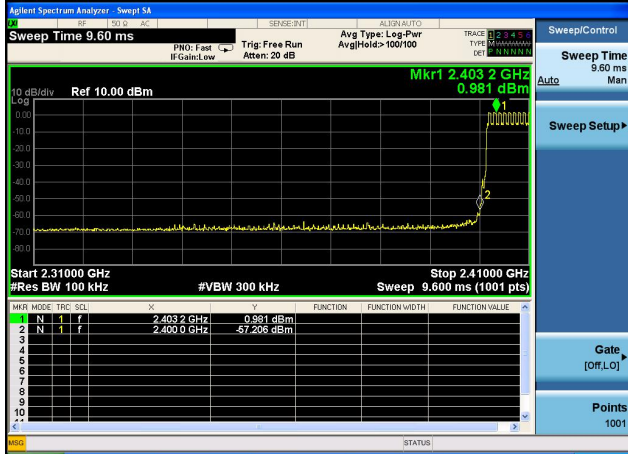
| Modulation mode                                                                     | GFSK | Test channel                                                                         | Highest |
|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|---------|
|  |      |  |         |
| No-hopping mode                                                                     |      | Hopping mode                                                                         |         |



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| Modulation mode                                                                   | $\pi/4$ -DQPSK | Test channel                                                                       | Lowest |
|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|--------|
|  |                |  |        |
| No-hopping mode                                                                   |                | Hopping mode                                                                       |        |

| Modulation mode                                                                     | $\pi/4$ -DQPSK | Test channel                                                                         | Highest |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|---------|
|  |                |  |         |
| No-hopping mode                                                                     |                | Hopping mode                                                                         |         |



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| Modulation mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8DPSK | Test channel | Lowest |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
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| <div><div><div><div>Agilent Spectrum Analyzer - Swept SA</div><div><div>Marker 1 2.401800000000 GHz</div><div>PRO: Fast<br/>IF Gain: Low</div><div>Trig: Free Run<br/>Atten: 20 dB</div><div>Avg Type: Log-Pwr<br/>Avg/Hold: &gt;100/100</div><div>TRACE 1 2.401800000000 GHz<br/>TYPE: S-MAGNITUDE<br/>DET: RMS</div></div><div>10 dB/div<br/>Ref 10.00 dBm<br/>Log<br/>0.00<br/>10.00<br/>20.00<br/>30.00<br/>40.00<br/>50.00<br/>60.00<br/>70.00<br/>80.00</div><div>Start 2.31000 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 9.600 ms (1001 pts)</div><div><table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>F</th><th>V</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4018 GHz</td><td>1.499 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4000 GHz</td><td>-56.633 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div></div><div>MSG (STATUS)</div></div></div> |       | MKR          | MODE   | TRC        | SCL         | F        | V              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4018 GHz | 1.499 dBm |  |  |  | 2 | N | 1 | f | 2.4000 GHz | -56.633 dBm |  |  |  | 3 |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | <div><div><div><div>Agilent Spectrum Analyzer - Swept SA</div><div><div>Marker 1 2.402100000000 GHz</div><div>PRO: Fast<br/>IF Gain: Low</div><div>Trig: Free Run<br/>Atten: 20 dB</div><div>Avg Type: Log-Pwr<br/>Avg/Hold: &gt;100/100</div><div>TRACE 1 2.402100000000 GHz<br/>TYPE: S-MAGNITUDE<br/>DET: RMS</div></div><div>10 dB/div<br/>Ref 10.00 dBm<br/>Log<br/>0.00<br/>10.00<br/>20.00<br/>30.00<br/>40.00<br/>50.00<br/>60.00<br/>70.00<br/>80.00</div><div>Start 2.31000 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 9.600 ms (1001 pts)</div><div><table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>F</th><th>V</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4021 GHz</td><td>0.814 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4000 GHz</td><td>-59.456 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div></div><div>MSG (STATUS)</div></div></div> |  | MKR | MODE | TRC | SCL | F | V | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4021 GHz | 0.814 dBm |  |  |  | 2 | N | 1 | f | 2.4000 GHz | -59.456 dBm |  |  |  | 3 |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |
| MKR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MODE  | TRC          | SCL    | F          | V           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N     | 1            | f      | 2.4018 GHz | 1.499 dBm   |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N     | 1            | f      | 2.4000 GHz | -56.633 dBm |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
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| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| MKR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MODE  | TRC          | SCL    | F          | V           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N     | 1            | f      | 2.4021 GHz | 0.814 dBm   |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
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| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |              |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |
| No-hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | Hopping mode |        |            |             |          |                |                |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |     |      |     |     |   |   |          |                |                |   |   |   |   |            |           |  |  |  |   |   |   |   |            |             |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |

| Modulation mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8DPSK | Test channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Highest |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <div><div><div><div>Agilent Spectrum Analyzer - Sweep SA</div><div>Marker 1 2.479848000000 GHz</div><div>PRO: Fast<br/>IF Gain: Low</div><div>Trig: Free Run</div><div>Atten: 20 dB</div><div>Avg Type: Log-Pwr</div><div>Avg Hold: &gt;100/100</div><div>TRACE 1 2.479848 GHz<br/>1.0 dB/div</div><div>10.00 dBm</div><div>2.043 dBm</div><div>Mkr1 2.479 848 GHz<br/>2.043 dBm</div><div>Start 2.47800 GHz<br/>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Sweep 2.133 ms (1001 pts)</div><div>Stop 2.50000 GHz</div><div>MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE</div><div>1 N 1 f 2.479 848 GHz 2.043 dBm</div><div>2 N 1 f 2.483 500 GHz -64.804 dBm</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div><div>MWQ (STATUS)</div></div><div><div>Peak Search</div><div>Next Peak</div><div>Next Pk Right</div><div>Next Pk Left</div><div>Marker Delta</div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div></div></div></div> <div>No-hopping mode</div> |       | <div><div><div><div>Agilent Spectrum Analyzer - Sweep SA</div><div>Marker 1 2.480090000000 GHz</div><div>PRO: Fast<br/>IF Gain: Low</div><div>Trig: Free Run</div><div>Atten: 20 dB</div><div>Avg Type: Log-Pwr</div><div>Avg Hold: &gt;100/100</div><div>TRACE 1 2.480090 GHz<br/>10.00 dBm</div><div>1.275 dBm</div><div>Mkr1 2.480 090 GHz<br/>1.275 dBm</div><div>Start 2.47800 GHz<br/>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Sweep 2.133 ms (1001 pts)</div><div>Stop 2.50000 GHz</div><div>MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE</div><div>1 N 1 f 2.480 090 GHz 1.275 dBm</div><div>2 N 1 f 2.483 500 GHz -66.659 dBm</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div><div>MWQ (STATUS)</div></div><div><div>Peak Search</div><div>Next Peak</div><div>Next Pk Right</div><div>Next Pk Left</div><div>Marker Delta</div><div>Mkr--CF</div><div>Mkr--Ref Lvl</div><div>More 1 of 2</div></div></div></div> <div>Hopping mode</div> |         |

## 12. Band Edge Requirement (Radiated Emission Method)

### 12.1. Test Standard and Limit

#### 12.1.1 Test Standard

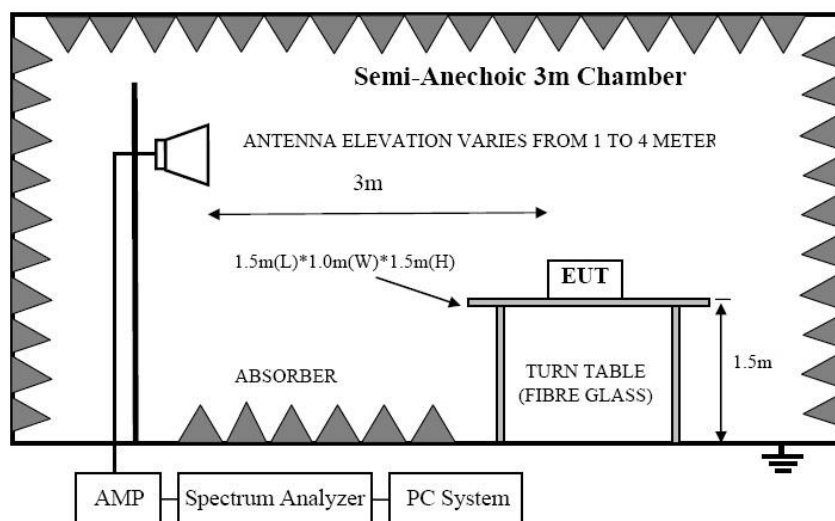
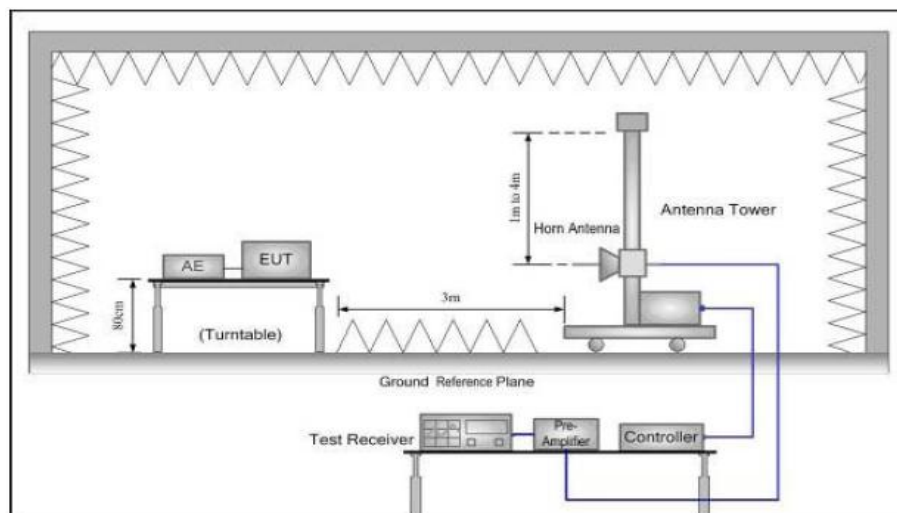
FCC Part15 C Section 15.209 and 15.205

#### 12.1.2 Test Limit

**Radiated Emission Test Limit**

| Frequency  | Limit (dB $\mu$ V/m @3m) | Remark        |
|------------|--------------------------|---------------|
| Above 1GHz | 54.00                    | Average value |
|            | 74.00                    | Peak value    |

### 12.2. Test Setup





## 12.3. Test Procedure

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz and 1.5 meters above the ground for above 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Peak Value: RBW=1MHz, VBW=3MHz; Average value: RBW=1MHz, VBW=10Hz
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

## 12.4. Test Data

Remark:

1. During the test, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8DPSK, and all data were shown in the report.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.



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| Test mode: GFSK |                   |                       |                 |                          | Test channel: Lowest  |                |                 |      |       |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|-----------------------|----------------|-----------------|------|-------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2400.00         | 22.48             | 27.58                 | 5.67            | 0                        | 55.73                 | 74.00          | -18.27          | H    | PEAK  |
| 2400.00         | 22.03             | 27.58                 | 5.67            | 0                        | 55.28                 | 74.00          | -18.72          | V    | PEAK  |
| 2400.00         | 10.46             | 27.58                 | 5.67            | 0                        | 43.71                 | 54.00          | -10.29          | H    | AVG.  |
| 2400.00         | 10.88             | 27.58                 | 5.67            | 0                        | 44.13                 | 54.00          | -9.87           | V    | AVG.  |
| Test mode: GFSK |                   |                       |                 |                          | Test channel: Highest |                |                 |      |       |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2483.50         | 23.08             | 27.52                 | 5.7             | 0                        | 56.3                  | 74.00          | -17.70          | H    | PEAK  |
| 2483.50         | 22.51             | 27.52                 | 5.7             | 0                        | 55.73                 | 74.00          | -18.27          | V    | PEAK  |
| 2483.50         | 10.88             | 27.52                 | 5.7             | 0                        | 44.1                  | 54.00          | -9.90           | H    | AVG.  |
| 2483.50         | 11.22             | 27.52                 | 5.7             | 0                        | 44.44                 | 54.00          | -9.56           | V    | AVG.  |

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss - Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



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| Test mode: $\pi/4$ -DQPSK |                   |                       |                 |                          | Test channel: Lowest  |                |                 |      |       |
|---------------------------|-------------------|-----------------------|-----------------|--------------------------|-----------------------|----------------|-----------------|------|-------|
| Frequency (MHz)           | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2400.00                   | 21.68             | 27.58                 | 5.67            | 0                        | 54.93                 | 74.00          | -19.07          | H    | PEAK  |
| 2400.00                   | 22.1              | 27.58                 | 5.67            | 0                        | 55.35                 | 74.00          | -18.65          | V    | PEAK  |
| 2400.00                   | 11.11             | 27.58                 | 5.67            | 0                        | 44.36                 | 54.00          | -9.64           | H    | AVG.  |
| 2400.00                   | 11.57             | 27.58                 | 5.67            | 0                        | 44.82                 | 54.00          | -9.18           | V    | AVG.  |
| Test mode: $\pi/4$ -DQPSK |                   |                       |                 |                          | Test channel: Highest |                |                 |      |       |
| Frequency (MHz)           | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2483.50                   | 21.46             | 27.52                 | 5.7             | 0                        | 54.68                 | 74.00          | -19.32          | H    | PEAK  |
| 2483.50                   | 22.35             | 27.52                 | 5.7             | 0                        | 55.57                 | 74.00          | -18.43          | V    | PEAK  |
| 2483.50                   | 10.13             | 27.52                 | 5.7             | 0                        | 43.35                 | 54.00          | -10.65          | H    | AVG.  |
| 2483.50                   | 10.47             | 27.52                 | 5.7             | 0                        | 43.69                 | 54.00          | -10.31          | V    | AVG.  |

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss - Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



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| Test mode: 8DPSK |                   |                       |                 |                          | Test channel: Lowest  |                |                 |      |       |
|------------------|-------------------|-----------------------|-----------------|--------------------------|-----------------------|----------------|-----------------|------|-------|
| Frequency (MHz)  | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2400.00          | 22.57             | 27.58                 | 5.67            | 0                        | 55.82                 | 74.00          | -18.18          | H    | PEAK  |
| 2400.00          | 22.71             | 27.58                 | 5.67            | 0                        | 55.96                 | 74.00          | -18.04          | V    | PEAK  |
| 2400.00          | 10.49             | 27.58                 | 5.67            | 0                        | 43.74                 | 54.00          | -10.26          | H    | AVG.  |
| 2400.00          | 10.67             | 27.58                 | 5.67            | 0                        | 43.92                 | 54.00          | -10.08          | V    | AVG.  |
| Test mode: 8DPSK |                   |                       |                 |                          | Test channel: Highest |                |                 |      |       |
| Frequency (MHz)  | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 2483.50          | 21.19             | 27.52                 | 5.7             | 0                        | 54.41                 | 74.00          | -19.59          | H    | PEAK  |
| 2483.50          | 22.33             | 27.52                 | 5.7             | 0                        | 55.55                 | 74.00          | -18.45          | V    | PEAK  |
| 2483.50          | 10.44             | 27.52                 | 5.7             | 0                        | 43.66                 | 54.00          | -10.34          | H    | AVG.  |
| 2483.50          | 10.69             | 27.52                 | 5.7             | 0                        | 43.91                 | 54.00          | -10.09          | V    | AVG.  |

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss - Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 13. Spurious Emission (Radiated Emission Method)

### 14.1. Test Standard and Limit

#### 14.1.1 Test Standard

FCC Part15 C Section 15.209

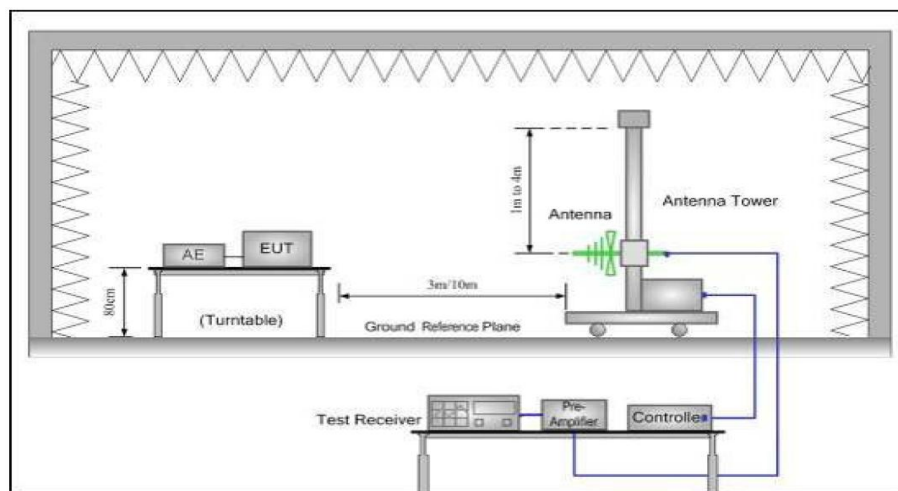
#### 14.1.2 Test Limit

| Frequency<br>(MHz) | Limit (dB $\mu$ V/m) |            |
|--------------------|----------------------|------------|
|                    | At 3m Distance       |            |
| 30MHz~88MHz        | 40                   | Quasi-peak |
| 88MHz~216MHz       | 43.5                 | Quasi-peak |
| 216MHz~960MHz      | 46                   | Quasi-peak |
| 960MHz~1000MHz     | 54                   | Quasi-peak |
| Above 1000MHz      | 54                   | Average    |
|                    | 74                   | Peak       |

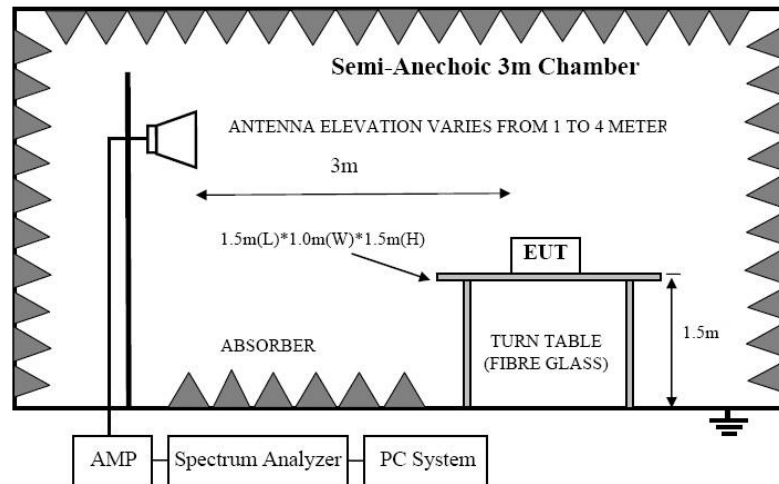
**Remark:** 1. The lower limit shall apply at the transition frequency.

### 14.2. Test Setup

#### Below 1GHz



## Above 1GHz



### 14.3. Test Procedure

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz and 1.5 meters above the ground for above 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  
 Peak value: RBW=1MHz, VBW=3MHz;  
 Average value: RBW=1MHz, VBW=10Hz;  
 QP Value: RBW=120kHz, VBW=300kHz
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

### 14.4. Test Data

Remark:

1. During the test, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8-DPSK modulation, and found the GFSK modulation is the worst case.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
3. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.



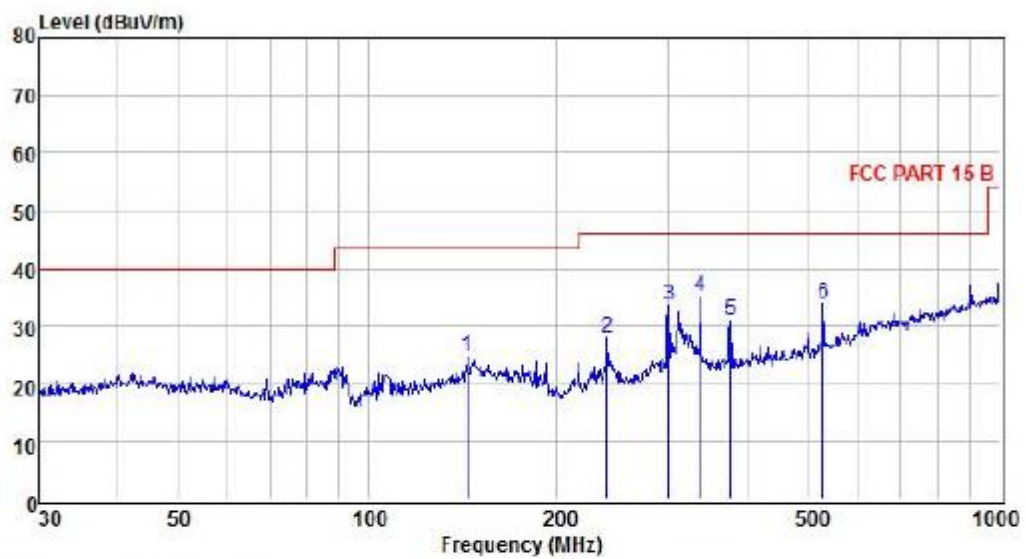
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## Radiated Emission Test Data (Below 1GHz)

EUT: Smart TV BOX M/N: X92  
Operating Condition: Bluetooth TX mode  
Test Site: 3m chamber  
Operator: Tom  
Test Specification: AC120V/60Hz  
Polarization: Horizontal  
Note: Tem:23℃ Hum:50%



| Condition : FCC PART 15 B |             |                       |                         |                              | POL: HORIZONTAL     |               |               |                |        |
|---------------------------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| Item                      | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamplifier<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
| 1                         | 143.83      | 39.83                 | 13.77                   | 29.39                        | 0.38                | 24.59         | 43.50         | -18.91         | Peak   |
| 2                         | 239.99      | 44.21                 | 11.45                   | 28.25                        | 0.53                | 27.94         | 46.00         | -18.06         | Peak   |
| 3                         | 300.37      | 47.99                 | 12.85                   | 28.02                        | 0.64                | 33.46         | 46.00         | -12.54         | Peak   |
| 4                         | 336.04      | 48.45                 | 13.61                   | 27.84                        | 0.78                | 35.00         | 46.00         | -11.00         | Peak   |
| 5                         | 375.94      | 43.12                 | 14.35                   | 27.42                        | 0.96                | 31.01         | 46.00         | -14.99         | Peak   |
| 6                         | 528.25      | 43.05                 | 17.03                   | 27.20                        | 1.07                | 33.95         | 46.00         | -12.05         | Peak   |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



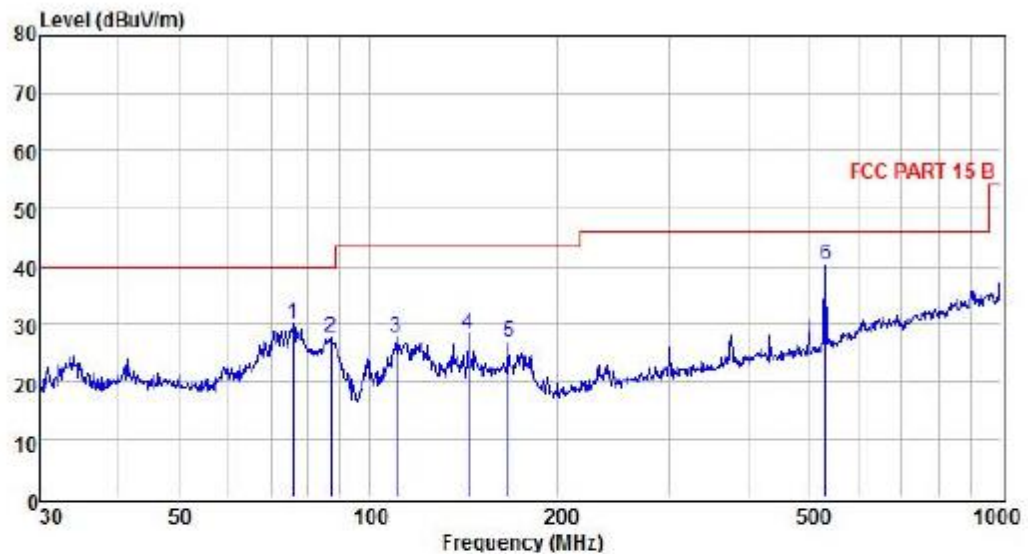
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## Radiated Emission Test Data (Below 1GHz)

EUT: Smart TV BOX M/N: X92  
Operating Condition: Bluetooth TX mode  
Test Site: 3m chamber  
Operator: Tom  
Test Specification: AC120V/60Hz  
Polarization: Vertical  
Note: Tem:23°C Hum:50%



| Condition : FCC PART 15 B POL: VERTICAL |             |                       |                         |                              |                     |               |               |                |        |
|-----------------------------------------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| Item                                    | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamplifier<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
| 1                                       | 75.71       | 49.81                 | 9.90                    | 30.06                        | 0.25                | 29.90         | 40.00         | -10.10         | Peak   |
| 2                                       | 87.11       | 48.08                 | 9.41                    | 30.14                        | 0.32                | 27.67         | 40.00         | -12.33         | Peak   |
| 3                                       | 110.57      | 45.81                 | 11.32                   | 29.93                        | 0.41                | 27.61         | 43.50         | -15.89         | Peak   |
| 4                                       | 143.83      | 43.52                 | 13.77                   | 29.39                        | 0.38                | 28.28         | 43.50         | -15.22         | Peak   |
| 5                                       | 166.65      | 41.96                 | 13.56                   | 29.13                        | 0.40                | 26.79         | 43.50         | -16.71         | Peak   |
| 6                                       | 531.96      | 49.04                 | 17.09                   | 27.14                        | 1.11                | 40.10         | 46.00         | -5.90          | Peak   |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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## Radiated Emission Test Data (Above 1GHz)

| Test mode: GFSK |                   |                       |                 |                          | Test channel: Lowest |                |                 |      |       |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------------|----------------|-----------------|------|-------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4804.00         | 43.87             | 31.53                 | 8.9             | 40.24                    | 44.06                | 74.00          | -29.94          | V    | PEAK  |
| 7206.00         | 44.69             | 36.48                 | 12.08           | 40.15                    | 53.1                 | 74.00          | -20.9           | V    | PEAK  |
| 9608.00         | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 12010.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 14412.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 16814.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 4804.00         | 44.67             | 31.53                 | 8.9             | 40.24                    | 44.86                | 74.00          | -29.14          | H    | PEAK  |
| 7206.00         | 44.71             | 36.48                 | 12.08           | 40.15                    | 53.12                | 74.00          | -20.88          | H    | PEAK  |
| 9608.00         | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 12010.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 14412.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 16814.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4804.00         | 32.87             | 31.53                 | 8.9             | 40.24                    | 33.06                | 54.00          | -20.94          | V    | AVG.  |
| 7206.00         | 33.74             | 36.48                 | 12.08           | 40.15                    | 42.15                | 54.00          | -11.85          | V    | AVG.  |
| 9608.00         | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 12010.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 14412.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 16814.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 4804.00         | 33.28             | 31.53                 | 8.9             | 40.24                    | 33.47                | 54.00          | -20.53          | H    | AVG.  |
| 7206.00         | 33.98             | 36.48                 | 12.08           | 40.15                    | 42.39                | 54.00          | -11.61          | H    | AVG.  |
| 9608.00         | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 12010.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 14412.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 16814.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

| Test mode: GFSK |                   |                       |                 |                          | Test channel: Middle |                |                 |      |       |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------------|----------------|-----------------|------|-------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4882.00         | 43.87             | 31.69                 | 9.08            | 40.03                    | 44.61                | 74.00          | -29.39          | V    | PEAK  |
| 7323.00         | 44.98             | 36.57                 | 12.14           | 40.21                    | 53.48                | 74.00          | -20.52          | V    | PEAK  |
| 9764.00         | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 12205.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 14646.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 17087.00        | *                 |                       |                 |                          |                      | 74.00          |                 | V    | PEAK  |
| 4882.00         | 44.67             | 31.69                 | 9.08            | 40.03                    | 45.41                | 74.00          | -25.83          | H    | PEAK  |
| 7323.00         | 45.31             | 36.57                 | 12.14           | 40.21                    | 53.81                | 74.00          | -20.19          | H    | PEAK  |
| 9764.00         | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 12205.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 14646.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| 17087.00        | *                 |                       |                 |                          |                      | 74.00          |                 | H    | PEAK  |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4882.00         | 33.43             | 31.69                 | 9.08            | 40.03                    | 34.17                | 54.00          | -22.68          | V    | AVG.  |
| 7323.00         | 33.69             | 36.57                 | 12.14           | 40.21                    | 42.19                | 54.00          | -11.81          | V    | AVG.  |
| 9764.00         | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 12205.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 14646.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 17087.00        | *                 |                       |                 |                          |                      | 54.00          |                 | V    | AVG.  |
| 4882.00         | 34.09             | 31.69                 | 9.08            | 40.03                    | 34.83                | 54.00          | -19.17          | H    | AVG.  |
| 7323.00         | 34.35             | 36.57                 | 12.14           | 40.21                    | 42.85                | 54.00          | -11.15          | H    | AVG.  |
| 9764.00         | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 12205.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 14646.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |
| 17087.00        | *                 |                       |                 |                          |                      | 54.00          |                 | H    | AVG.  |

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

| Test mode: GFSK |                   |                       |                 |                          | Test channel: Highest |                |                 |      |       |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|-----------------------|----------------|-----------------|------|-------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4960.00         | 44.49             | 31.69                 | 9.08            | 40.03                    | 45.23                 | 74.00          | -28.77          | V    | PEAK  |
| 7440.00         | 44.58             | 36.73                 | 12.59           | 40.41                    | 53.49                 | 74.00          | -20.51          | V    | PEAK  |
| 9920.00         | *                 |                       |                 |                          |                       | 74.00          |                 | V    | PEAK  |
| 12400.00        | *                 |                       |                 |                          |                       | 74.00          |                 | V    | PEAK  |
| 14880.00        | *                 |                       |                 |                          |                       | 74.00          |                 | V    | PEAK  |
| 17360.00        | *                 |                       |                 |                          |                       | 74.00          |                 | V    | PEAK  |
| 4960.00         | 42.69             | 31.69                 | 9.08            | 40.03                    | 43.43                 | 74.00          | -30.57          | H    | PEAK  |
| 7440.00         | 45.11             | 36.73                 | 12.59           | 40.41                    | 54.02                 | 74.00          | -19.98          | H    | PEAK  |
| 9920.00         | *                 |                       |                 |                          |                       | 74.00          |                 | H    | PEAK  |
| 12400.00        | *                 |                       |                 |                          |                       | 74.00          |                 | H    | PEAK  |
| 14880.00        | *                 |                       |                 |                          |                       | 74.00          |                 | H    | PEAK  |
| 17360.00        | *                 |                       |                 |                          |                       | 74.00          |                 | H    | PEAK  |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m)        | Limit (dBuV/m) | Over Limit (dB) | Pol. | Level |
| 4960.00         | 33.76             | 31.69                 | 9.08            | 40.03                    | 34.5                  | 54.00          | -19.5           | V    | AVG.  |
| 7440.00         | 33.95             | 36.73                 | 12.59           | 40.41                    | 42.86                 | 54.00          | -11.14          | V    | AVG.  |
| 9920.00         | *                 |                       |                 |                          |                       | 54.00          |                 | V    | AVG.  |
| 12400.00        | *                 |                       |                 |                          |                       | 54.00          |                 | V    | AVG.  |
| 14880.00        | *                 |                       |                 |                          |                       | 54.00          |                 | V    | AVG.  |
| 17360.00        | *                 |                       |                 |                          |                       | 54.00          |                 | V    | AVG.  |
| 34.29           | 34.29             | 31.69                 | 9.08            | 40.03                    | 35.03                 | 54.00          | -18.97          | H    | AVG.  |
| 34.41           | 34.41             | 36.73                 | 12.59           | 40.41                    | 43.32                 | 54.00          | -10.68          | H    | AVG.  |
| 9920.00         | *                 |                       |                 |                          |                       | 54.00          |                 | H    | AVG.  |
| 12400.00        | *                 |                       |                 |                          |                       | 54.00          |                 | H    | AVG.  |
| 14880.00        | *                 |                       |                 |                          |                       | 54.00          |                 | H    | AVG.  |
| 17360.00        | *                 |                       |                 |                          |                       | 54.00          |                 | H    | AVG.  |

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.