

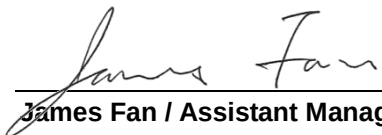
# FCC Test Report

Equipment : Wifi repeater  
Brand Name : Technicolor  
Model No. : TG213  
FCC ID : G95-TG213  
Standard : 47 CFR FCC Part 15.247  
Operating Band : 2400 MHz – 2483.5 MHz  
FCC Classification : DTS  
Applicant : Technicolor USA, Inc.  
101 West 103rd Street, Indianapolis, Indiana 46290,  
United States

The product sample received on Aug. 19, 2014 and completely tested on Sep. 04, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
James Fan / Assistant Manager

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## Summary of Test Result

| Conformance Test Specifications |                  |                                                       |                                                                                   |                                                                |          |
|---------------------------------|------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|----------|
| Report Clause                   | Ref. Std. Clause | Description                                           | Measured                                                                          | Limit                                                          | Result   |
| 1.1.2                           | 15.203           | Antenna Requirement                                   | Antenna connector mechanism complied                                              | FCC 15.203                                                     | Complied |
| 3.1                             | 15.207           | AC Power-line Conducted Emissions                     | [dBuV]: 0.4661350MHz<br>42.67 (Margin 13.91dB) - QP<br>39.91 (Margin 6.67dB) - AV | FCC 15.207                                                     | Complied |
| 3.2                             | 15.247(a)        | 6dB Bandwidth                                         | 6dB Bandwidth [MHz]<br>20M: 10.03 / 40M: 36.29                                    | ≥500kHz                                                        | Complied |
| 3.3                             | 15.247(b)        | RF Output Power (Maximum Peak Conducted Output Power) | Power [dBm]: 28.44                                                                | Power [dBm]: 30                                                | Complied |
| 3.4                             | 15.247(e)        | Power Spectral Density                                | PSD [dBm/3kHz]: -1.82                                                             | PSD [dBm/3kHz]: 8                                              | Complied |
| 3.5                             | 15.247(d)        | Emissions in non-restricted frequency bands           | Out-of -band emissions are 20dB below the highest power                           | Non-Restricted Bands: > 20 dBc<br>Restricted Bands: FCC 15.209 | Complied |
| 3.6                             | 15.247(d)        | Transmitter Radiated Unwanted Emissions               | Restricted Bands [dBuV/m at 3m]: 2390.00MHz<br>52.90 (Margin 1.10dB) - AV         | Non-Restricted Bands: > 20 dBc<br>Restricted Bands: FCC 15.209 | Complied |

## Revision History

[illegible]

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| RF General Information                                                                                                                                                                                                                       |                  |                 |                |                                    |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|----------------|------------------------------------|-----------------------|
| Frequency Range (MHz)                                                                                                                                                                                                                        | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | RF Output Power (dBm) |
| 2400-2483.5                                                                                                                                                                                                                                  | b                | 2412-2462       | 1-11 [11]      | 1                                  | 23.49                 |
| 2400-2483.5                                                                                                                                                                                                                                  | g                | 2412-2462       | 1-11 [11]      | 1                                  | 26.31                 |
| 2400-2483.5                                                                                                                                                                                                                                  | HT20             | 2412-2462       | 1-11 [11]      | 2                                  | 28.44                 |
| 2400-2483.5                                                                                                                                                                                                                                  | HT40             | 2422-2452       | 3-9 [7]        | 2                                  | 27.03                 |
| Note 1: RF output power specifies that Maximum Peak Conducted Output Power.<br>Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.<br>Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. |                  |                 |                |                                    |                       |

### 1.1.2 Antenna Information

| Antenna Category                    |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | Equipment placed on the market without antennas                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Integral antenna (antenna permanently attached)                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Temporary RF connector provided                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | No temporary RF connector provided<br>Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path. |
| <input type="checkbox"/>            | External antenna (dedicated antennas)                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>            | Single power level with corresponding antenna(s).                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Multiple power level and corresponding antenna(s).                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>            | RF connector provided                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>            | Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)                                                                                                                                                                                                                                       |
| <input type="checkbox"/>            | Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)                                                                                                                                                                                                                                                  |

| Antenna General Information |           |           |           |            |
|-----------------------------|-----------|-----------|-----------|------------|
| No.                         | Ant. Cat. | Ant. Type | Connector | Gain (dBi) |
| 1                           | Integral  | PIFA      | N/A       | 2          |

**1.1.3 Type of EUT**

| Identify EUT                        |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EUT Serial Number                   | N/A                                                                                                                               |
| Presentation of Equipment           | <input type="checkbox"/> Production ; <input checked="" type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype     |
| Type of EUT                         |                                                                                                                                   |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.: ...                           |
| <input type="checkbox"/>            | Other:                                                                                                                            |

**1.1.4 Test Signal Duty Cycle**

| Operated Mode for Worst Duty Cycle                                          |                                       |
|-----------------------------------------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Operated normally mode for worst duty cycle        |                                       |
| <input checked="" type="checkbox"/> Operated test mode for worst duty cycle |                                       |
| Test Signal Duty Cycle (x)                                                  | Power Duty Factor [dB] – (10 log 1/x) |
| <input checked="" type="checkbox"/> 100.00% - IEEE 802.11b                  | 0.00                                  |
| <input checked="" type="checkbox"/> 99.93% - IEEE 802.11g                   | 0.00                                  |
| <input checked="" type="checkbox"/> 99.63% - IEEE 802.11n (HT20)            | 0.02                                  |
| <input checked="" type="checkbox"/> 98.26% - IEEE 802.11n (HT40)            | 0.08                                  |

**1.1.5 EUT Operational Condition**

|                   |            |
|-------------------|------------|
| Power Supply Type | 100-240Vac |
|-------------------|------------|

## 1.2 Support Equipment

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | Notebook  | DELL       | E6430      | DoC    |

## 1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2009
- ♦ FCC KDB 558074 v03r02
- ♦ FCC KDB 662911 v02r01
- ♦ FCC KDB 412172 v01

## 1.4 Testing Location Information

| Testing Location                              |               |                                                                                                                    |                  |                         |
|-----------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|
| <input checked="" type="checkbox"/>           | HWA YA        | ADD : No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. |                  |                         |
|                                               |               | TEL : 886-3-327-3456 FAX : 886-3-327-0973                                                                          |                  |                         |
| Test Condition                                | Test Site No. | Test Engineer                                                                                                      | Test Environment | Test Date               |
| RF Conducted                                  | TH01-HY       | Mark Liao                                                                                                          | 23°C / 64%       | Sep. 04, 2014           |
| AC Conduction                                 | CO04-HY       | Skys Huang                                                                                                         | 23°C / 66%       | Sep. 04, 2014           |
| Radiated Emission                             | 03CH03-HY     | Jack Li                                                                                                            | 20°C / 60%       | Aug. 19 ~ Aug. 21, 2014 |
| Test site registered number [643075] with FCC |               |                                                                                                                    |                  |                         |
| Test site registered number [4086B-1] with IC |               |                                                                                                                    |                  |                         |

## 1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty           |               |             |       |
|-----------------------------------|---------------|-------------|-------|
| Test Item                         |               | Uncertainty | Limit |
| AC power-line conducted emissions |               | ±2.26 dB    | N/A   |
| Emission bandwidth, 6dB bandwidth |               | ±1.42 %     | N/A   |
| RF output power, conducted        |               | ±0.63 dB    | N/A   |
| Power density, conducted          |               | ±0.81 dB    | N/A   |
| Unwanted emissions, conducted     | 30 – 1000 MHz | ±0.51 dB    | N/A   |
|                                   | 1 – 18 GHz    | ±0.67 dB    | N/A   |
|                                   | 18 – 40 GHz   | ±0.83 dB    | N/A   |
|                                   | 40 – 200 GHz  | N/A         | N/A   |
| All emissions, radiated           | 30 – 1000 MHz | ±2.56 dB    | N/A   |
|                                   | 1 – 18 GHz    | ±3.59 dB    | N/A   |
|                                   | 18 – 40 GHz   | ±3.82 dB    | N/A   |
|                                   | 40 – 200 GHz  | N/A         | N/A   |
| Temperature                       |               | ±0.8 °C     | N/A   |
| Humidity                          |               | ±3 %        | N/A   |
| DC and low frequency voltages     |               | ±3 %        | N/A   |
| Time                              |               | ±1.42 %     | N/A   |
| Duty Cycle                        |               | ±1.42 %     | N/A   |



## 2 Test Configuration of EUT

### 2.1 The Worst Case Modulation Configuration

| Worst Modulation Used for Conformance Testing |                                    |                 |                       |
|-----------------------------------------------|------------------------------------|-----------------|-----------------------|
| Modulation Mode                               | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS | Worst Data Rate / MCS |
| 11b                                           | 1                                  | 1-11 Mbps       | 1 Mbps                |
| 11g                                           | 1                                  | 6-54 Mbps       | 6 Mbps                |
| HT20                                          | 2                                  | MCS 0-15        | MCS 0                 |
| HT40                                          | 2                                  | MCS 0-15        | MCS 0                 |

### 2.2 Test Channel Frequencies Configuration

| Test Channel Frequencies Configuration |                                 |
|----------------------------------------|---------------------------------|
| IEEE Std. 802.11                       | Test Channel Frequencies (MHz)  |
| b, g, n (HT-20)                        | 2412-(F1), 2437-(F2), 2462-(F3) |
| n (HT-40)                              | 2422-(F4), 2437-(F5), 2452-(F6) |

### 2.3 The Worst Case Power Setting Parameter

| The Worst Case Power Setting Parameter (2400-2483.5MHz band) |                 |                      |       |       |            |       |       |
|--------------------------------------------------------------|-----------------|----------------------|-------|-------|------------|-------|-------|
| Test Software                                                | MT7620          |                      |       |       |            |       |       |
| Test Software Version                                        | V1.0.6.0        |                      |       |       |            |       |       |
| Modulation Mode                                              | N <sub>TX</sub> | Test Frequency (MHz) |       |       |            |       |       |
|                                                              |                 | NCB: 20MHz           |       |       | NCB: 40MHz |       |       |
|                                                              |                 | 2412                 | 2437  | 2462  | 2422       | 2437  | 2452  |
| 11b,1-11Mbps                                                 | 1               | 14                   | 12    | 12    | --         | --    | --    |
| 11g,6-54Mbps                                                 | 1               | 10                   | 20    | 11    | --         | --    | --    |
| MCS 0-15                                                     | 2               | 0F//13               | 20/25 | 10/15 | --         | --    | --    |
| MCS 0-15                                                     | 2               | --                   | --    | --    | 08/0D      | 12/18 | 09/0F |

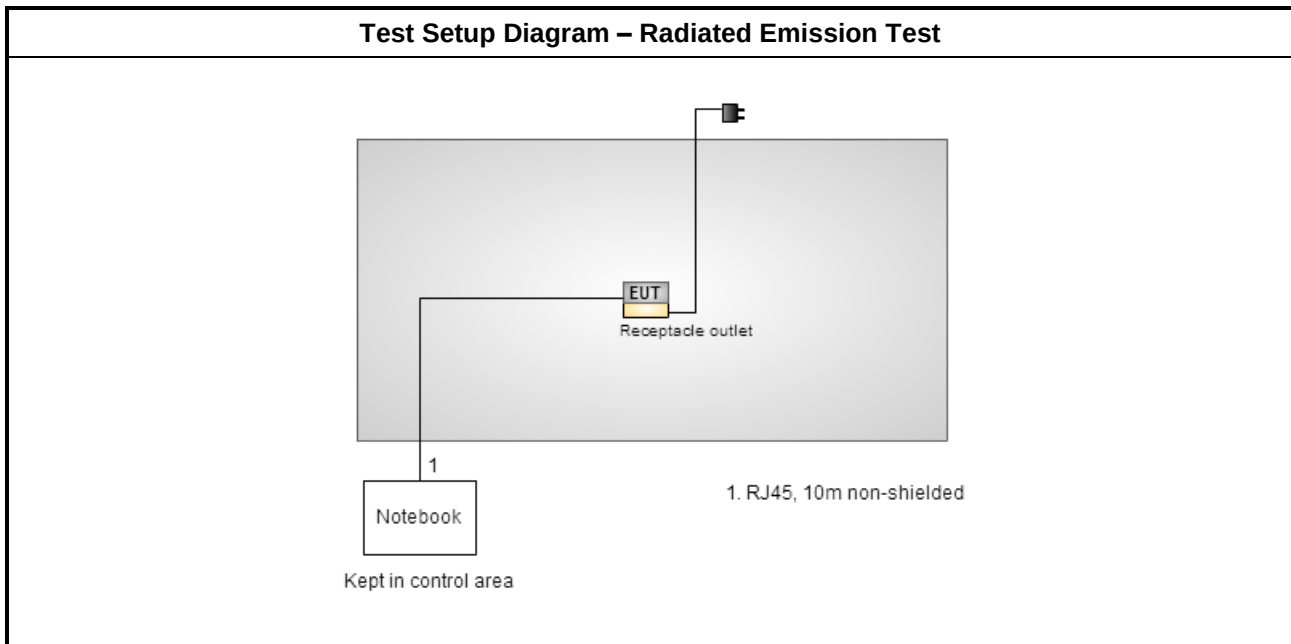
## 2.4 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| <b>Operating Mode</b>                               | Operating Mode Description                                                              |
| 1                                                   | AC Power & Radio link (WLAN)                                                            |

| The Worst Case Mode for Following Conformance Tests |                                                        |
|-----------------------------------------------------|--------------------------------------------------------|
| <b>Tests Item</b>                                   | RF Output Power, 6dB bandwidth, Power Spectral Density |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains               |
| <b>Modulation Mode</b>                              | 11b, 11g, HT20, HT40                                   |
| <b>Operating Mode</b>                               | Operating Mode Description                             |
| 1                                                   | AC Power & Radio link (WLAN)                           |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Transmitter Radiated Unwanted Emissions<br>Transmitter Radiated Bandedge Emissions                                                                                                                                                                  |                                                                                     |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                     |                                                                                       |
| <b>User Position</b>                                | <input type="checkbox"/> EUT will be placed in fixed position.                                                                                                                                                                                      |                                                                                     |                                                                                       |
|                                                     | <input checked="" type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is Z.                                                                  |                                                                                     |                                                                                       |
|                                                     | <input type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes. The worst planes is X.                                               |                                                                                     |                                                                                       |
| <b>Operating Mode</b>                               | <input checked="" type="checkbox"/> 1. AC Power & Radio link (WLAN)                                                                                                                                                                                 |                                                                                     |                                                                                       |
| <b>Modulation Mode</b>                              | 11b, 11g, HT20, HT40                                                                                                                                                                                                                                |                                                                                     |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                      | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |

## 2.5 Test Setup Diagram



### 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 – 56 *  | 56 – 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

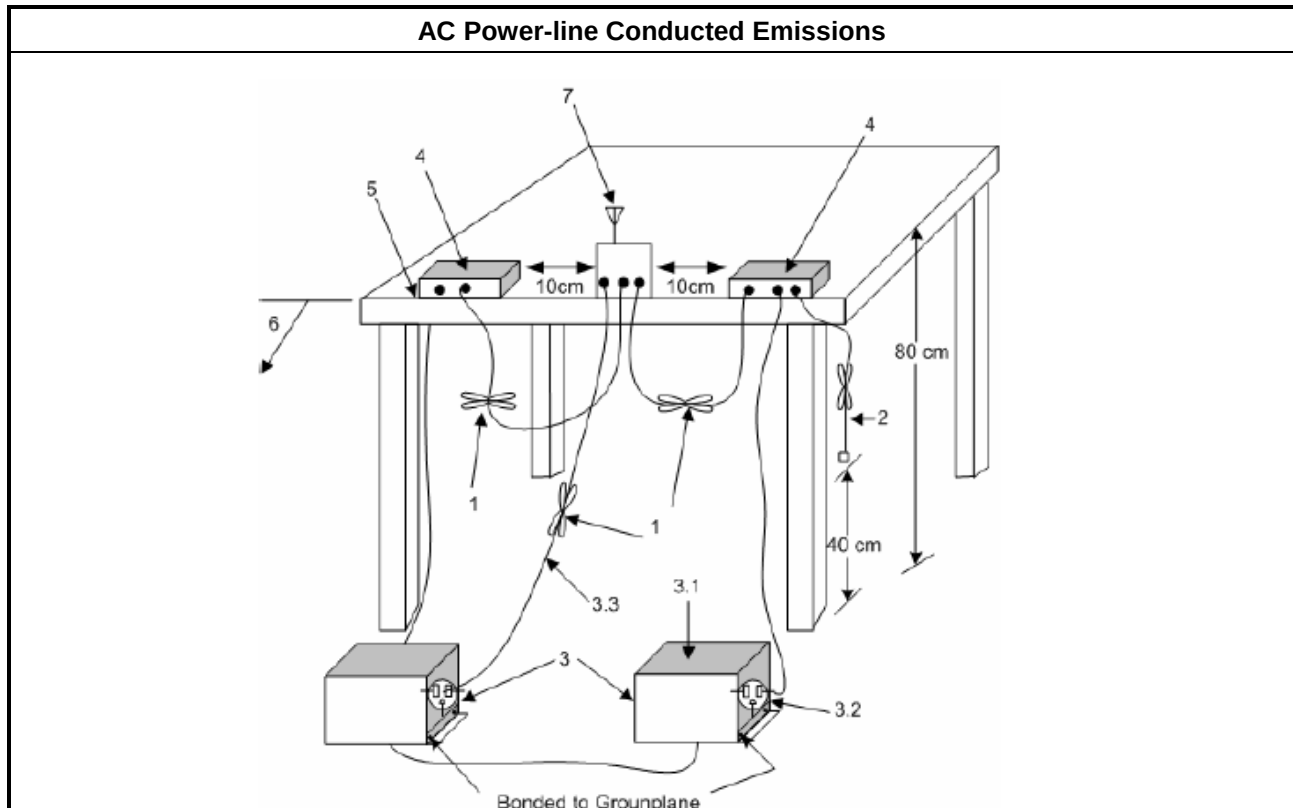
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

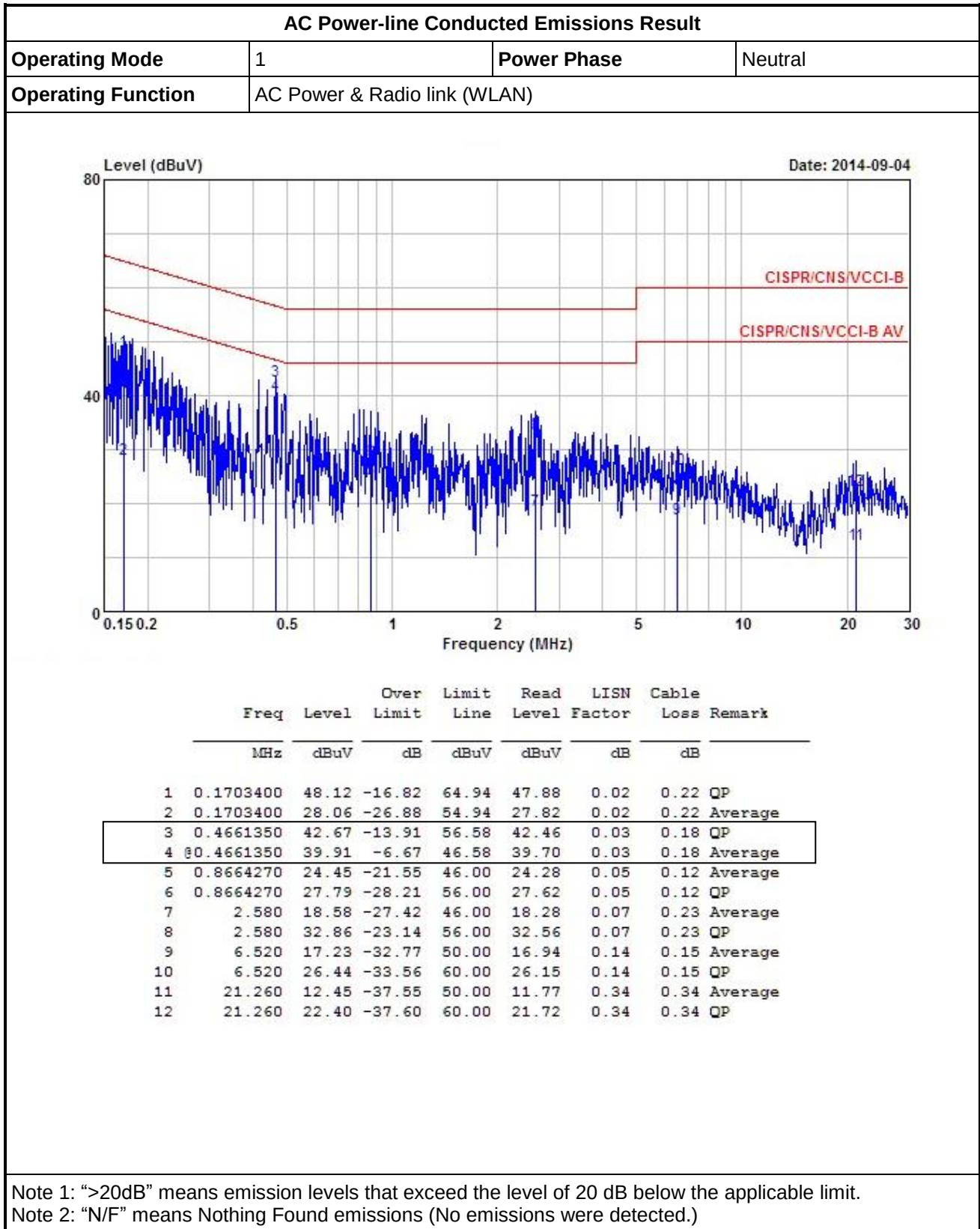
### 3.1.3 Test Procedures

| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup

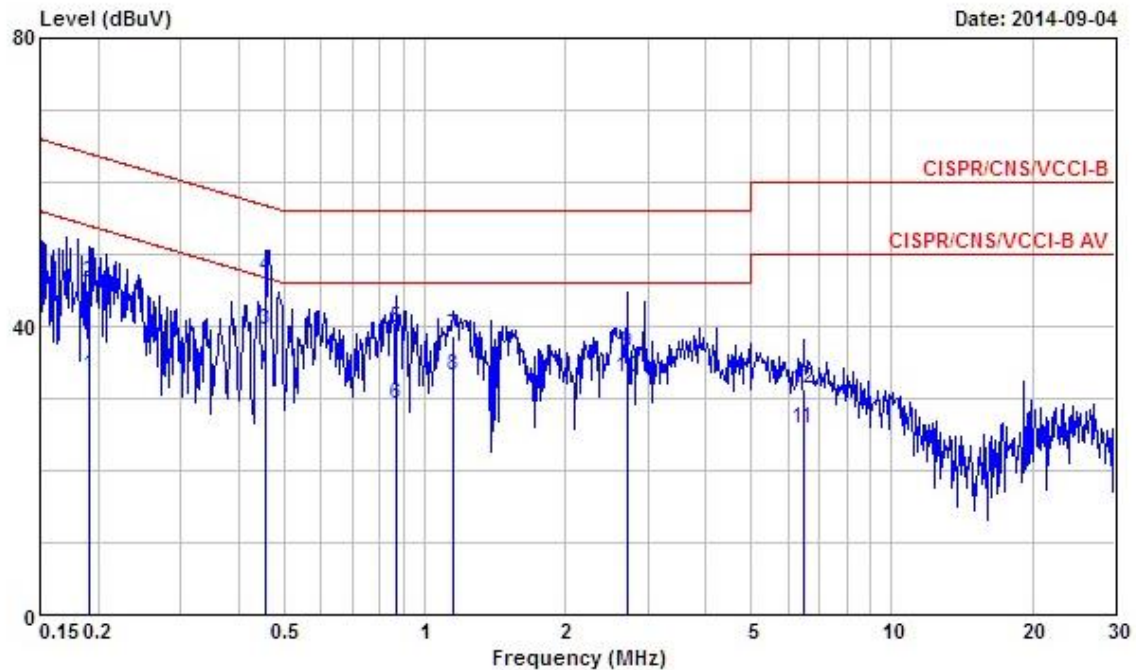


### 3.1.5 Test Result of AC Power-line Conducted Emissions



**AC Power-line Conducted Emissions Result**

|                    |                              |             |      |
|--------------------|------------------------------|-------------|------|
| Operating Mode     | 1                            | Power Phase | Line |
| Operating Function | AC Power & Radio link (WLAN) |             |      |



|    | Freq      | Level | Over   | Limit | Read  | LISN   | Cable |         |
|----|-----------|-------|--------|-------|-------|--------|-------|---------|
|    | MHz       | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|    |           |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1  | 0.1903870 | 33.22 | -20.80 | 54.02 | 32.98 | 0.03   | 0.21  | Average |
| 2  | 0.1903870 | 46.11 | -17.91 | 64.02 | 45.87 | 0.03   | 0.21  | QP      |
| 3  | 0.4563600 | 39.50 | -7.26  | 46.76 | 39.28 | 0.03   | 0.19  | Average |
| 4  | 0.4563600 | 46.95 | -9.81  | 56.76 | 46.73 | 0.03   | 0.19  | QP      |
| 5  | 0.8710300 | 39.79 | -16.21 | 56.00 | 39.61 | 0.06   | 0.12  | QP      |
| 6  | 0.8710300 | 29.13 | -16.87 | 46.00 | 28.95 | 0.06   | 0.12  | Average |
| 7  | 1.150     | 38.56 | -17.44 | 56.00 | 38.36 | 0.06   | 0.14  | QP      |
| 8  | 1.150     | 33.20 | -12.80 | 46.00 | 33.00 | 0.06   | 0.14  | Average |
| 9  | 2.710     | 36.35 | -19.65 | 56.00 | 36.06 | 0.08   | 0.21  | QP      |
| 10 | 2.710     | 32.76 | -13.24 | 46.00 | 32.47 | 0.08   | 0.21  | Average |
| 11 | 6.450     | 25.73 | -24.27 | 50.00 | 25.43 | 0.15   | 0.15  | Average |
| 12 | 6.450     | 31.29 | -28.71 | 60.00 | 30.99 | 0.15   | 0.15  | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## 3.2 6dB Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                          |                                |
|----------------------------------------------|--------------------------------|
| Systems using digital modulation techniques: |                                |
| <input checked="" type="checkbox"/>          | 6 dB bandwidth $\geq$ 500 kHz. |

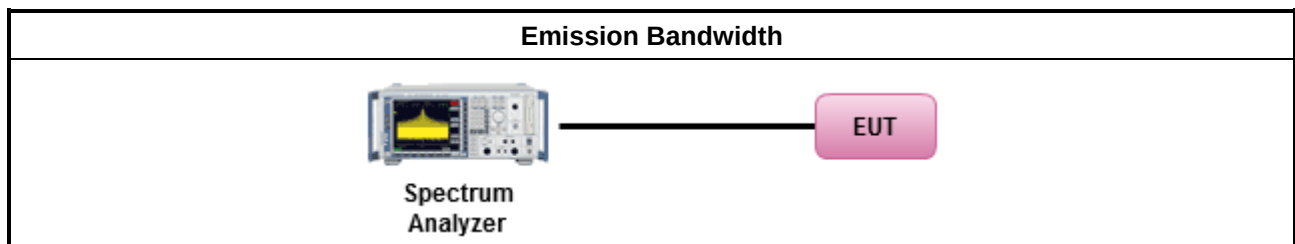
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                         |                                                                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | For the emission bandwidth shall be measured using one of the options below:                                                                                                          |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 8.1 Option 1 for 6 dB bandwidth measurement.                                                                                                   |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 8.2 Option 2 for 6 dB bandwidth measurement.                                                                                                   |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.                                                                                                                    |
| <input checked="" type="checkbox"/> | For conducted measurement.                                                                                                                                                            |
| <input checked="" type="checkbox"/> | The EUT supports single transmit chain and measurements performed on this transmit chain.                                                                                             |
| <input type="checkbox"/>            | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.                                                                                   |
| <input checked="" type="checkbox"/> | The EUT supports multiple transmit chains using options given below:                                                                                                                  |
| <input type="checkbox"/>            | Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.   |
| <input checked="" type="checkbox"/> | Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains. |

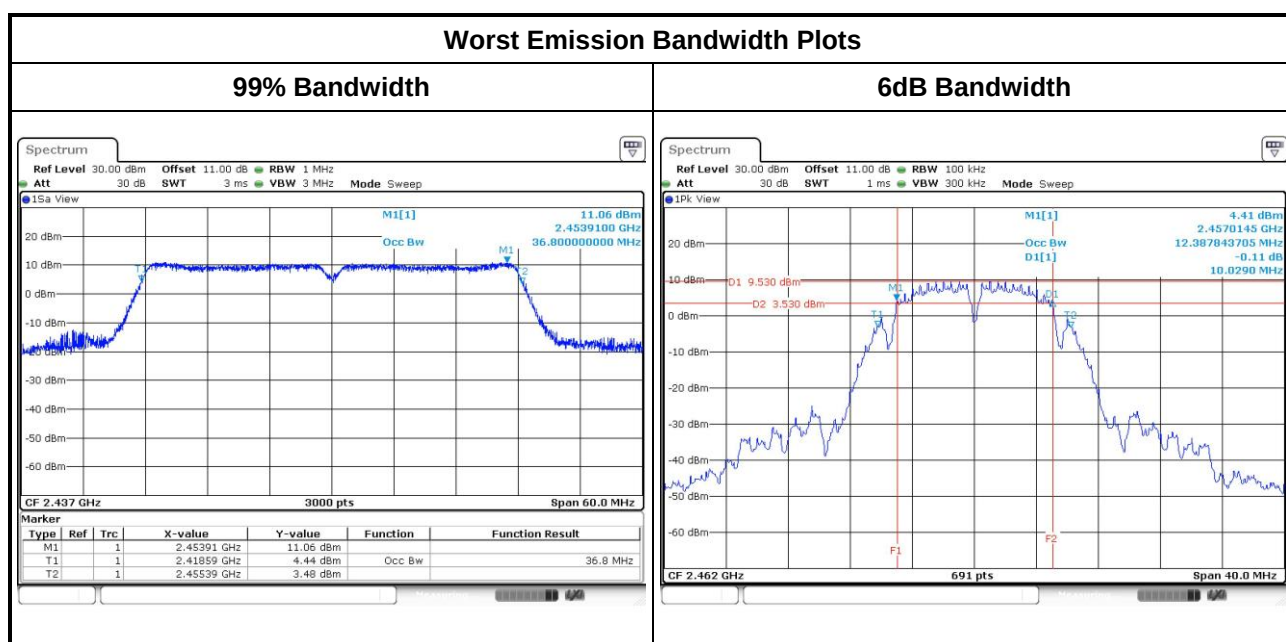
### 3.2.4 Test Setup





### 3.2.5 Test Result of Emission Bandwidth

| Emission Bandwidth Result                           |                 |             |                          |              |              |              |               |              |              |              |
|-----------------------------------------------------|-----------------|-------------|--------------------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Condition                                           |                 |             | Emission Bandwidth (MHz) |              |              |              |               |              |              |              |
| Modulation Mode                                     | N <sub>TX</sub> | Freq. (MHz) | 99% Bandwidth            |              |              |              | 6dB Bandwidth |              |              |              |
|                                                     |                 |             | Chain-Port 1             | Chain-Port 2 | Chain-Port 3 | Chain-Port 4 | Chain-Port 1  | Chain-Port 2 | Chain-Port 3 | Chain-Port 4 |
| 11b                                                 | 1               | 2412        | 12.45                    | --           | --           | --           | 10.09         | --           | --           | --           |
| 11b                                                 | 1               | 2437        | 12.37                    | --           | --           | --           | 10.09         | --           | --           | --           |
| 11b                                                 | 1               | 2462        | 12.37                    | --           | --           | --           | 10.03         | --           | --           | --           |
| 11g                                                 | 1               | 2412        | 16.97                    | --           | --           | --           | 16.35         | --           | --           | --           |
| 11g                                                 | 1               | 2437        | 20.84                    | --           | --           | --           | 16.35         | --           | --           | --           |
| 11g                                                 | 1               | 2462        | 16.98                    | --           | --           | --           | 16.35         | --           | --           | --           |
| HT-20                                               | 2               | 2412        | 17.76                    | 17.74        | --           | --           | 17.57         | 17.10        | --           | --           |
| HT-20                                               | 2               | 2437        | 18.58                    | 18.27        | --           | --           | 17.04         | 17.04        | --           | --           |
| HT-20                                               | 2               | 2462        | 17.77                    | 17.75        | --           | --           | 17.33         | 17.57        | --           | --           |
| HT-40                                               | 2               | 2412        | 36.68                    | 36.68        | --           | --           | 36.29         | 36.29        | --           | --           |
| HT-40                                               | 2               | 2437        | 36.80                    | 36.76        | --           | --           | 36.29         | 36.29        | --           | --           |
| HT-40                                               | 2               | 2462        | 36.76                    | 36.76        | --           | --           | 36.29         | 36.29        | --           | --           |
| Limit                                               |                 |             | N/A                      |              |              |              | ≥500 kHz      |              |              |              |
| Result                                              |                 |             | Complied                 |              |              |              |               |              |              |              |
| Note 1: N <sub>TX</sub> = Number of Transmit Chains |                 |             |                          |              |              |              |               |              |              |              |





### 3.3 RF Output Power

#### 3.3.1 RF Output Power Limit

| RF Output Power Limit                                                                                                                                                                                    |                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit</b>                                                                                                                       |                                                                                                 |
| <input checked="" type="checkbox"/> 2400-2483.5 MHz Band:                                                                                                                                                |                                                                                                 |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                        |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm  |
| <input type="checkbox"/>                                                                                                                                                                                 | Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm     |
| <input type="checkbox"/>                                                                                                                                                                                 | Smart antenna system (SAS):                                                                     |
| <input type="checkbox"/>                                                                                                                                                                                 | Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                      |
| <input type="checkbox"/>                                                                                                                                                                                 | Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                     |
| <input type="checkbox"/>                                                                                                                                                                                 | Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm |
| <b>e.i.r.p. Power Limit:</b>                                                                                                                                                                             |                                                                                                 |
| <input checked="" type="checkbox"/> 2400-2483.5 MHz Band                                                                                                                                                 |                                                                                                 |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)                                 |
| <input type="checkbox"/>                                                                                                                                                                                 | Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm            |
| <input type="checkbox"/>                                                                                                                                                                                 | Smart antenna system (SAS)                                                                      |
| <input type="checkbox"/>                                                                                                                                                                                 | Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                               |
| <input type="checkbox"/>                                                                                                                                                                                 | Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                              |
| <input type="checkbox"/>                                                                                                                                                                                 | Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm        |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi.<br>$P_{eirp}$ = e.i.r.p. Power in dBm. |                                                                                                 |

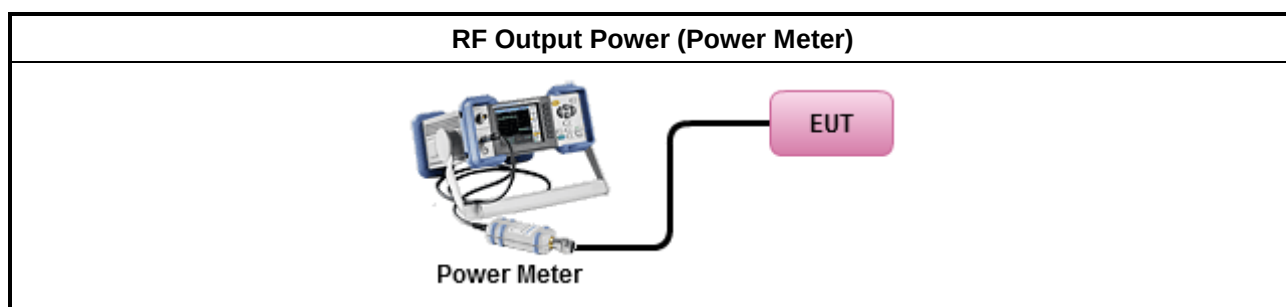
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Maximum Peak Conducted Output Power                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 9.1.1 (RBW $\geq$ DTS BW).                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 9.1.2 (Peak power meter)                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/> | Maximum Conducted Output Power ( Reference only)                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)                                                                                                                                                                                                                            |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)                                                                                                                                                                                                                            |
|                                     | RF power meter and average over on/off periods with duty factor or gated trigger                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 9.2.3.2 Method AVGPM-G (using a gated RF average power meter)                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | For conducted measurement.                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | The EUT supports single transmit chain and measurements performed on this transmit chain.                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.                                                                                                                                                                                                              |
| <input type="checkbox"/>            | The EUT supports multiple transmit chains using options given below:<br>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| <input checked="" type="checkbox"/> | If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \dots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$                                                                                      |

### 3.3.4 Test Setup



### 3.3.5 Directional Gain for Power Measurement

| Directional Gain (DG) Result |          |          |          |      |                 |
|------------------------------|----------|----------|----------|------|-----------------|
| Transmit Chains No.          |          | 1        | 2        | -    | -               |
| Maximum $G_{ANT}$ (dBi)      |          | 2        | 2        | -    | -               |
| Modulation Mode              | DG (dBi) | $N_{TX}$ | $N_{SS}$ | STBC | Array Gain (dB) |
| 11b,1-11Mbps                 | 1        | 1        | 1        | -    | -               |
| 11g,6-54Mbps                 | 1        | 1        | 1        | -    | -               |
| HT-20,M0-15                  | 2        | 2        | 1        | -    | -               |
| HT-40,M0-15                  | 2        | 2        | 1        | -    | -               |

**3.3.6 Test Result of Maximum Conducted Output Power**

| Maximum Peak Conducted Output Power |                 |             |                       |              |              |              |              |             |          |            |            |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|--------------|--------------|-------------|----------|------------|------------|
| Condition                           |                 |             | RF Output Power (dBm) |              |              |              |              |             |          |            |            |
| Modulation Mode                     | N <sub>TX</sub> | Freq. (MHz) | Chain Port 1          | Chain Port 2 | Chain Port 3 | Chain Port 4 | Sum Chain    | Power Limit | DG (dBi) | EIRP Power | EIRP Limit |
| 11b                                 | 1               | 2412        | 23.49                 | --           | --           | --           | 23.49        | 30.00       | 2.00     | 25.49      | 36.00      |
| 11b                                 | 1               | 2437        | 22.98                 | --           | --           | --           | 22.98        | 30.00       | 2.00     | 24.98      | 36.00      |
| 11b                                 | 1               | 2462        | 22.76                 | --           | --           | --           | 22.76        | 30.00       | 2.00     | 24.76      | 36.00      |
| 11g                                 | 1               | 2412        | 25.10                 | --           | --           | --           | 25.10        | 30.00       | 2.00     | 27.10      | 36.00      |
| 11g                                 | 1               | 2437        | 26.31                 | --           | --           | --           | 26.31        | 30.00       | 2.00     | 28.31      | 36.00      |
| 11g                                 | 1               | 2462        | 24.92                 | --           | --           | --           | 24.92        | 30.00       | 2.00     | 26.92      | 36.00      |
| HT-20                               | 2               | 2412        | 24.12                 | 24.17        | --           | --           | 27.16        | 30.00       | 2.00     | 29.16      | 36.00      |
| HT-20                               | 2               | 2437        | 25.49                 | 25.37        | --           | --           | <b>28.44</b> | 30.00       | 2.00     | 30.44      | 36.00      |
| HT-20                               | 2               | 2462        | 23.89                 | 24.09        | --           | --           | 27.00        | 30.00       | 2.00     | 29.00      | 36.00      |
| HT-40                               | 2               | 2422        | 21.36                 | 21.30        | --           | --           | 24.34        | 30.00       | 2.00     | 26.34      | 36.00      |
| HT-40                               | 2               | 2437        | 23.88                 | 24.15        | --           | --           | 27.03        | 30.00       | 2.00     | 29.03      | 36.00      |
| HT-40                               | 2               | 2452        | 21.66                 | 21.88        | --           | --           | 24.78        | 30.00       | 2.00     | 26.78      | 36.00      |
| <b>Result</b>                       |                 |             | <b>Complied</b>       |              |              |              |              |             |          |            |            |

| Maximum Conducted (Average) Output Power |                 |             |                       |              |              |              |              |             |          |            |            |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|--------------|--------------|-------------|----------|------------|------------|
| Condition                                |                 |             | RF Output Power (dBm) |              |              |              |              |             |          |            |            |
| Modulation Mode                          | N <sub>TX</sub> | Freq. (MHz) | Chain Port 1          | Chain Port 2 | Chain Port 3 | Chain Port 4 | Sum Chain    | Power Limit | DG (dBi) | EIRP Power | EIRP Limit |
| 11b                                      | 1               | 2412        | 20.28                 | --           | --           | --           | 20.28        | 30.00       | 2.00     | 22.28      | 36.00      |
| 11b                                      | 1               | 2437        | 19.52                 | --           | --           | --           | 19.52        | 30.00       | 2.00     | 21.52      | 36.00      |
| 11b                                      | 1               | 2462        | 19.41                 | --           | --           | --           | 19.41        | 30.00       | 2.00     | 21.41      | 36.00      |
| 11g                                      | 1               | 2412        | 18.12                 | --           | --           | --           | 18.12        | 30.00       | 2.00     | 20.12      | 36.00      |
| 11g                                      | 1               | 2437        | 22.47                 | --           | --           | --           | 22.47        | 30.00       | 2.00     | 24.47      | 36.00      |
| 11g                                      | 1               | 2462        | 18.22                 | --           | --           | --           | 18.22        | 30.00       | 2.00     | 20.22      | 36.00      |
| HT-20                                    | 2               | 2412        | 16.68                 | 16.85        | --           | --           | 19.78        | 30.00       | 2.00     | 21.78      | 36.00      |
| HT-20                                    | 2               | 2437        | 20.76                 | 20.65        | --           | --           | <b>23.72</b> | 30.00       | 2.00     | 25.72      | 36.00      |
| HT-20                                    | 2               | 2462        | 16.55                 | 16.72        | --           | --           | 19.65        | 30.00       | 2.00     | 21.65      | 36.00      |
| HT-40                                    | 2               | 2422        | 13.82                 | 13.71        | --           | --           | 16.78        | 30.00       | 2.00     | 18.78      | 36.00      |
| HT-40                                    | 2               | 2437        | 17.18                 | 17.42        | --           | --           | 20.31        | 30.00       | 2.00     | 22.31      | 36.00      |
| HT-40                                    | 2               | 2452        | 14.27                 | 14.29        | --           | --           | 17.29        | 30.00       | 2.00     | 19.29      | 36.00      |
| <b>Result</b>                            |                 |             | <b>Complied</b>       |              |              |              |              |             |          |            |            |

Note: AV power is for reference only.

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit        |                                                |
|-------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> | Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz |

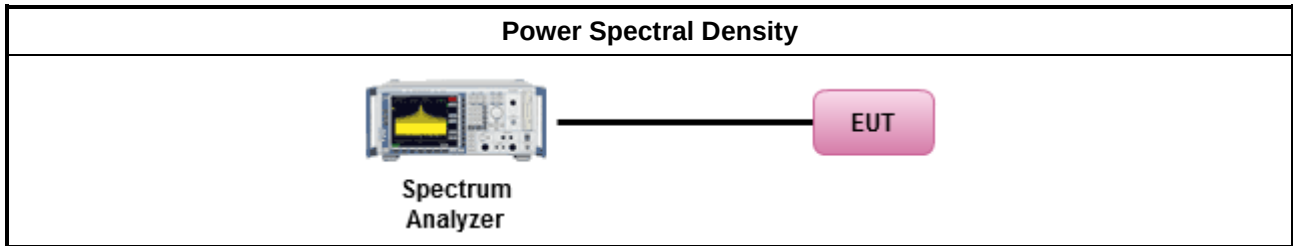
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 10.2 Method PKPSD (RBW=3kHz; detector=peak)..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 10.3 Method AVGPS-1 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 10.4 Method AVGPS-1 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 10.5 Method AVGPS-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | The EUT supports single transmit chain and measurements performed on this transmit chain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the N <sub>TX</sub> output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/>            | Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                                                                                                                                                                                                                                                                                                                              |

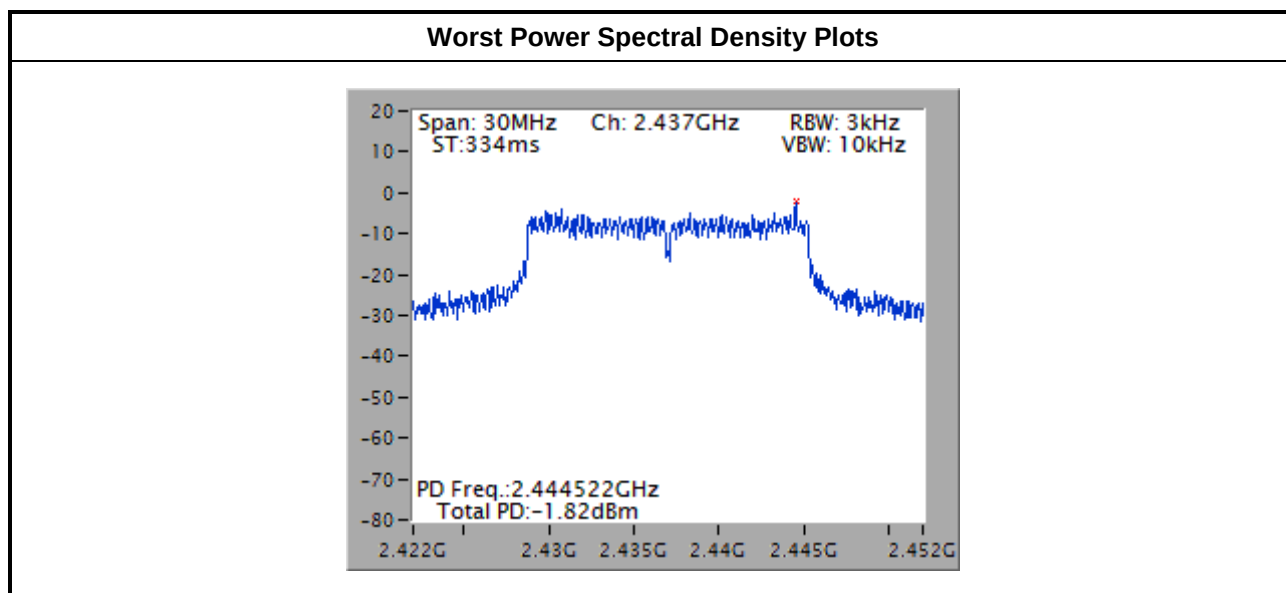
### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

| Power Spectral Density Result |                 |             |                                   |             |
|-------------------------------|-----------------|-------------|-----------------------------------|-------------|
| Condition                     |                 |             | Power Spectral Density (dBm/3kHz) |             |
| Modulation Mode               | N <sub>TX</sub> | Freq. (MHz) | Sum Chain                         | Power Limit |
| 11b                           | 1               | 2412        | -8.68                             | 8           |
| 11b                           | 1               | 2437        | -9.47                             | 8           |
| 11b                           | 1               | 2462        | -9.67                             | 8           |
| 11g                           | 1               | 2412        | -8.14                             | 8           |
| 11g                           | 1               | 2437        | -1.82                             | 8           |
| 11g                           | 1               | 2462        | -8.64                             | 8           |
| HT-20                         | 2               | 2412        | -6.40                             | 8           |
| HT-20                         | 2               | 2437        | -2.44                             | 8           |
| HT-20                         | 2               | 2462        | -6.34                             | 8           |
| HT-40                         | 2               | 2422        | -12.54                            | 8           |
| HT-40                         | 2               | 2437        | -9.39                             | 8           |
| HT-40                         | 2               | 2452        | -10.36                            | 8           |
| <b>Result</b>                 |                 |             | <b>Complied</b>                   |             |

Note: Test result for 2 TX mode is bin-by-bin summing measured value of each TX port.



### 3.5 Emissions in non-restricted frequency bands

#### 3.5.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

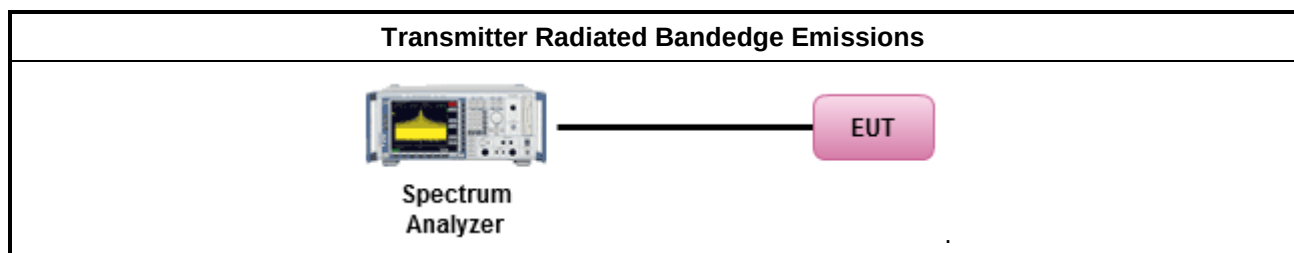
##### Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

##### Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

#### 3.5.4 Test Setup

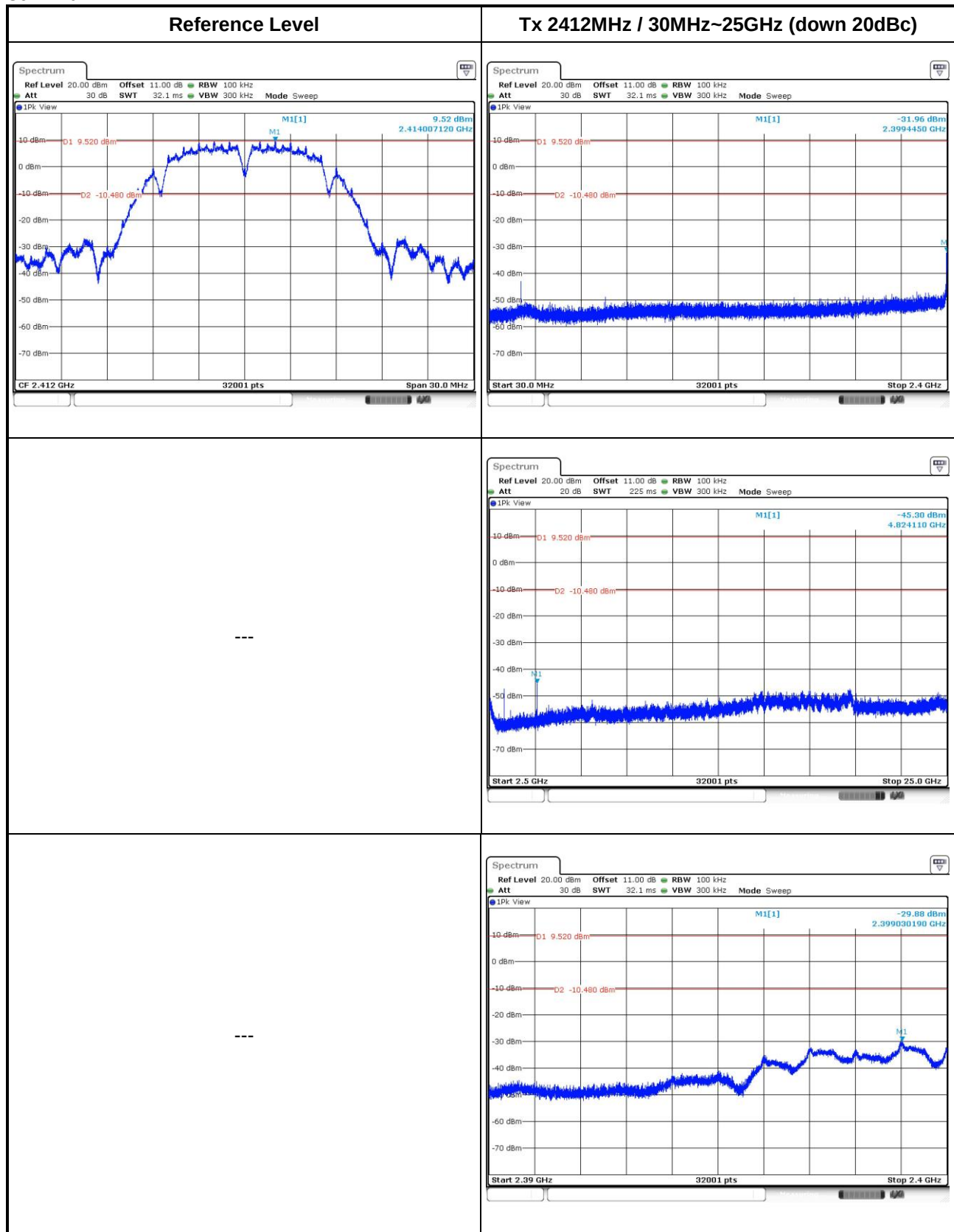


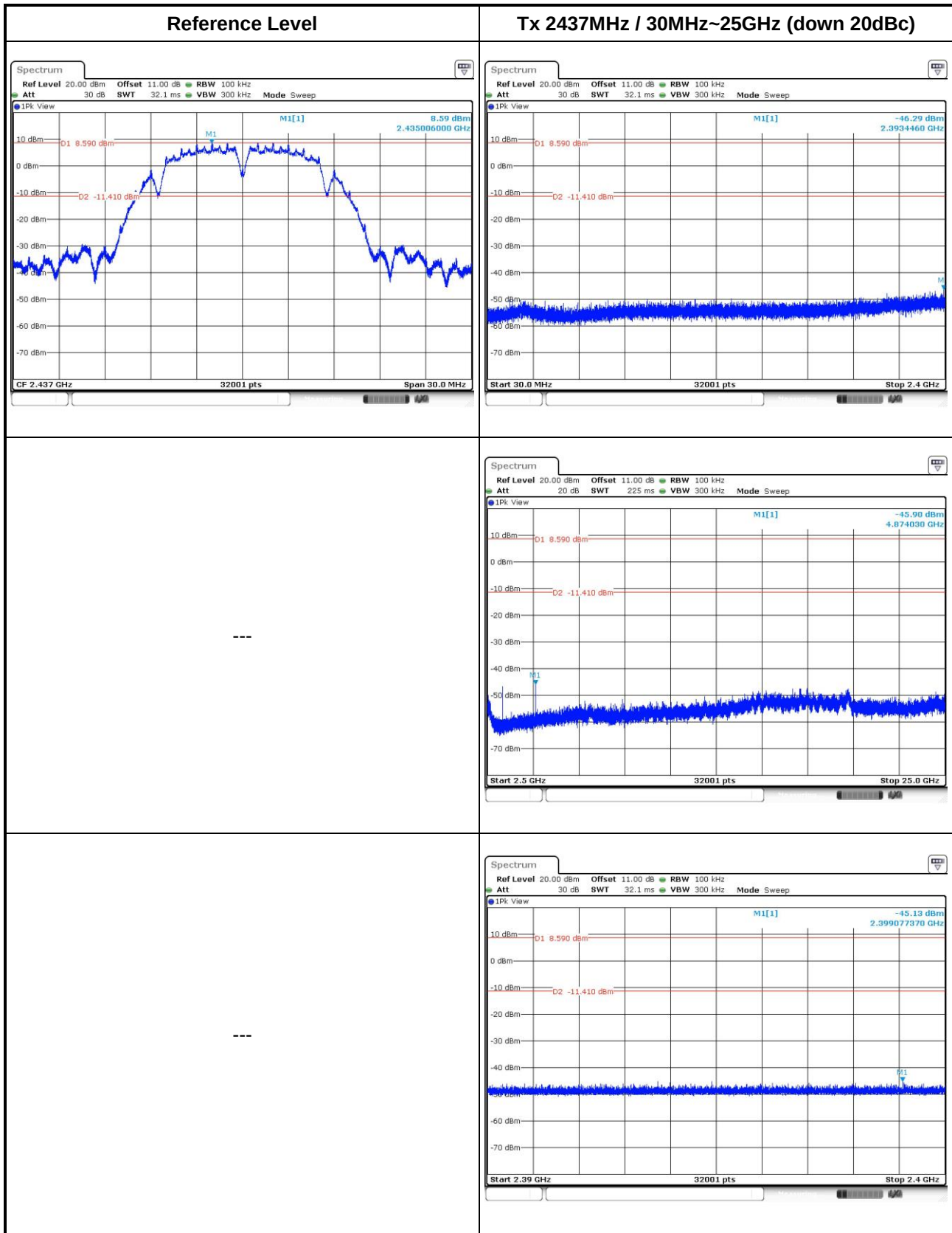


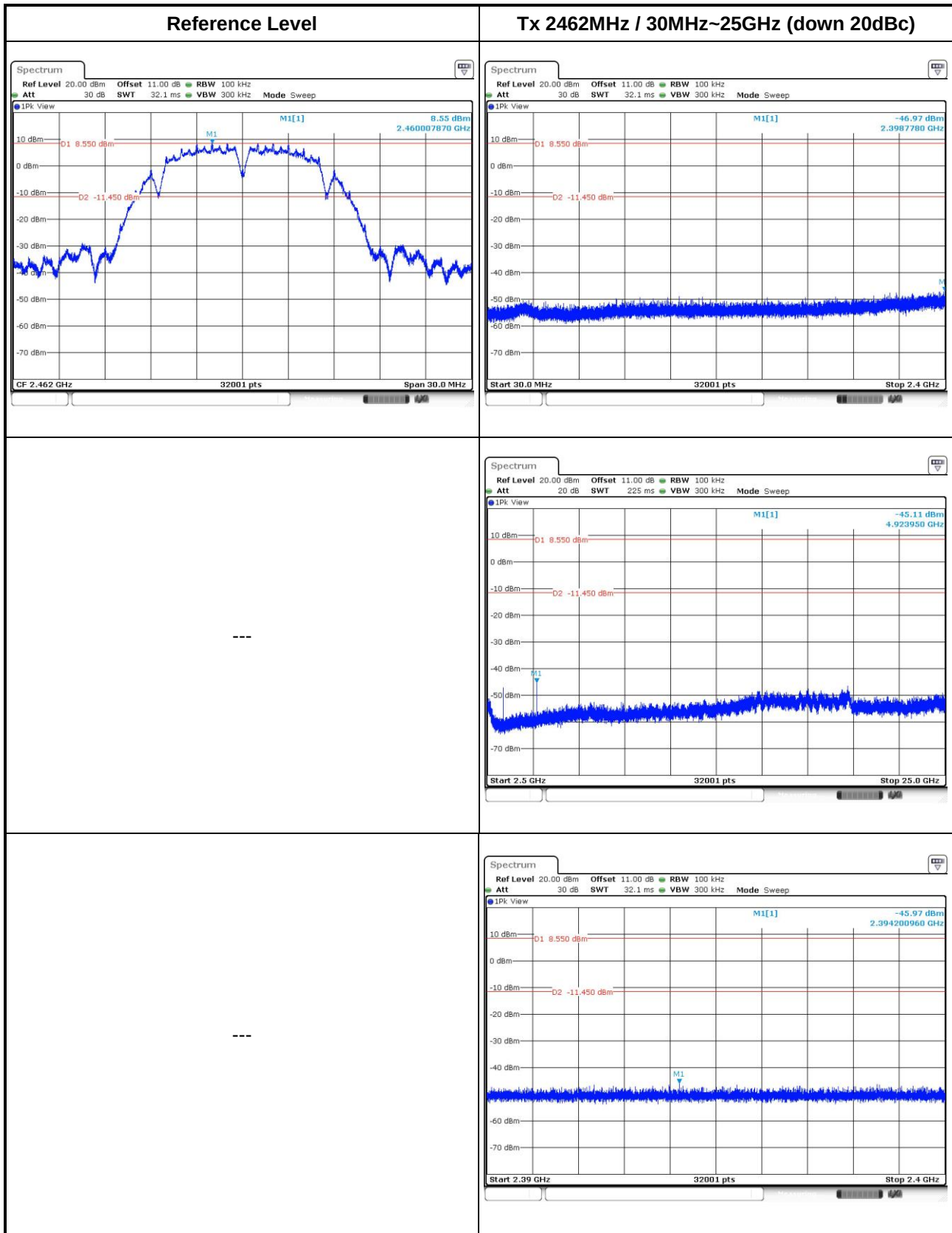


### 3.5.5 Test Result of Emissions in non-restricted frequency bands

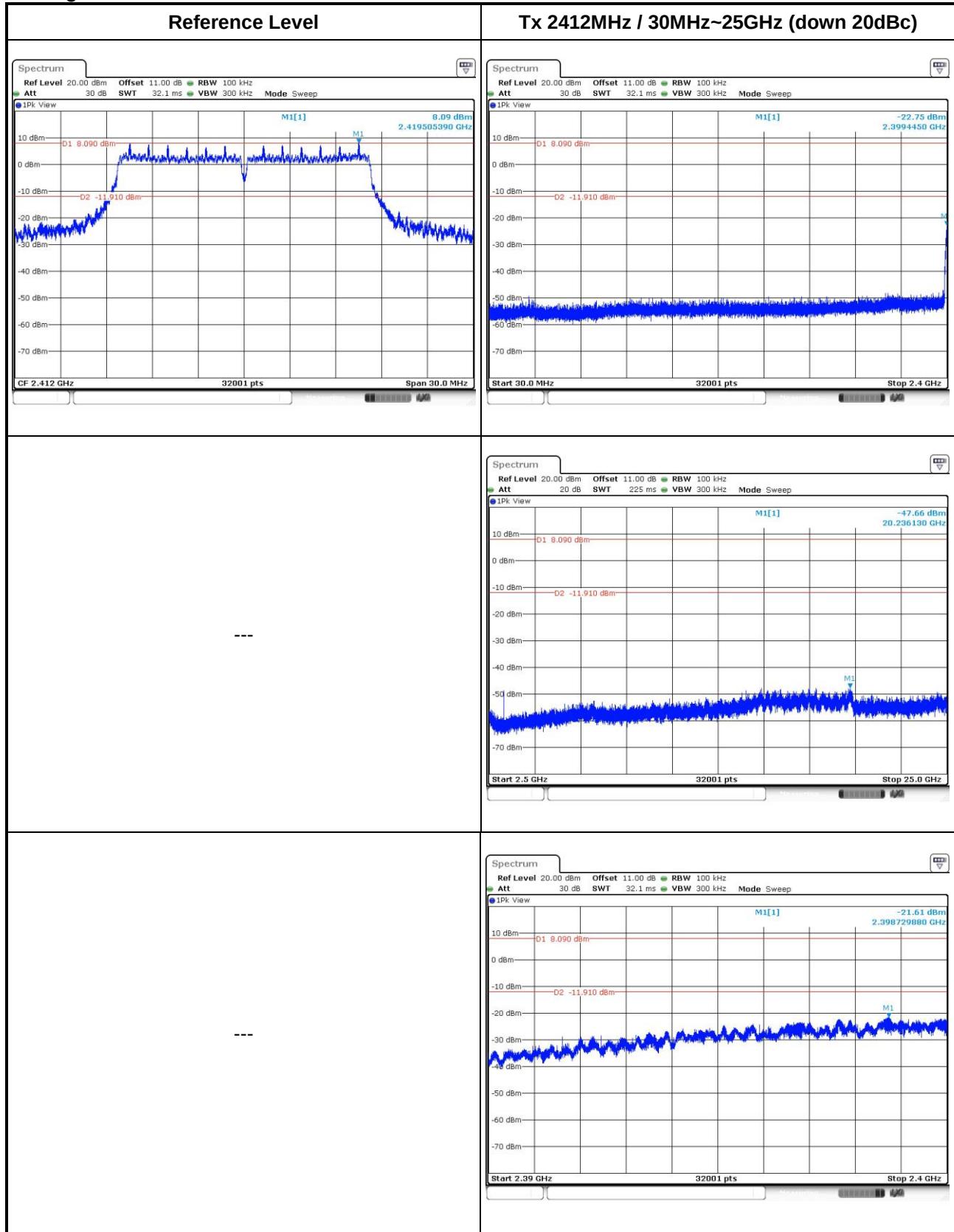
802.11b

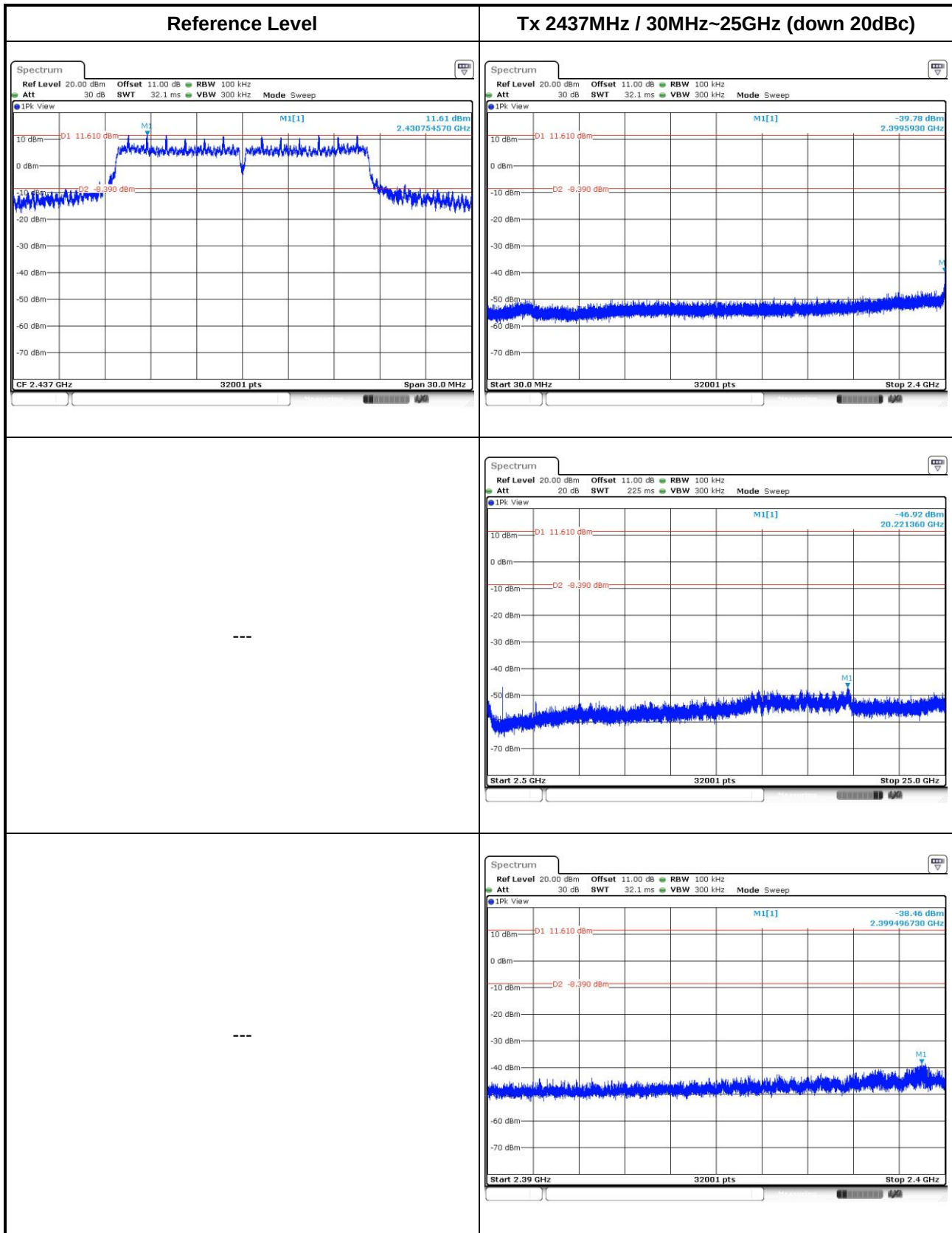


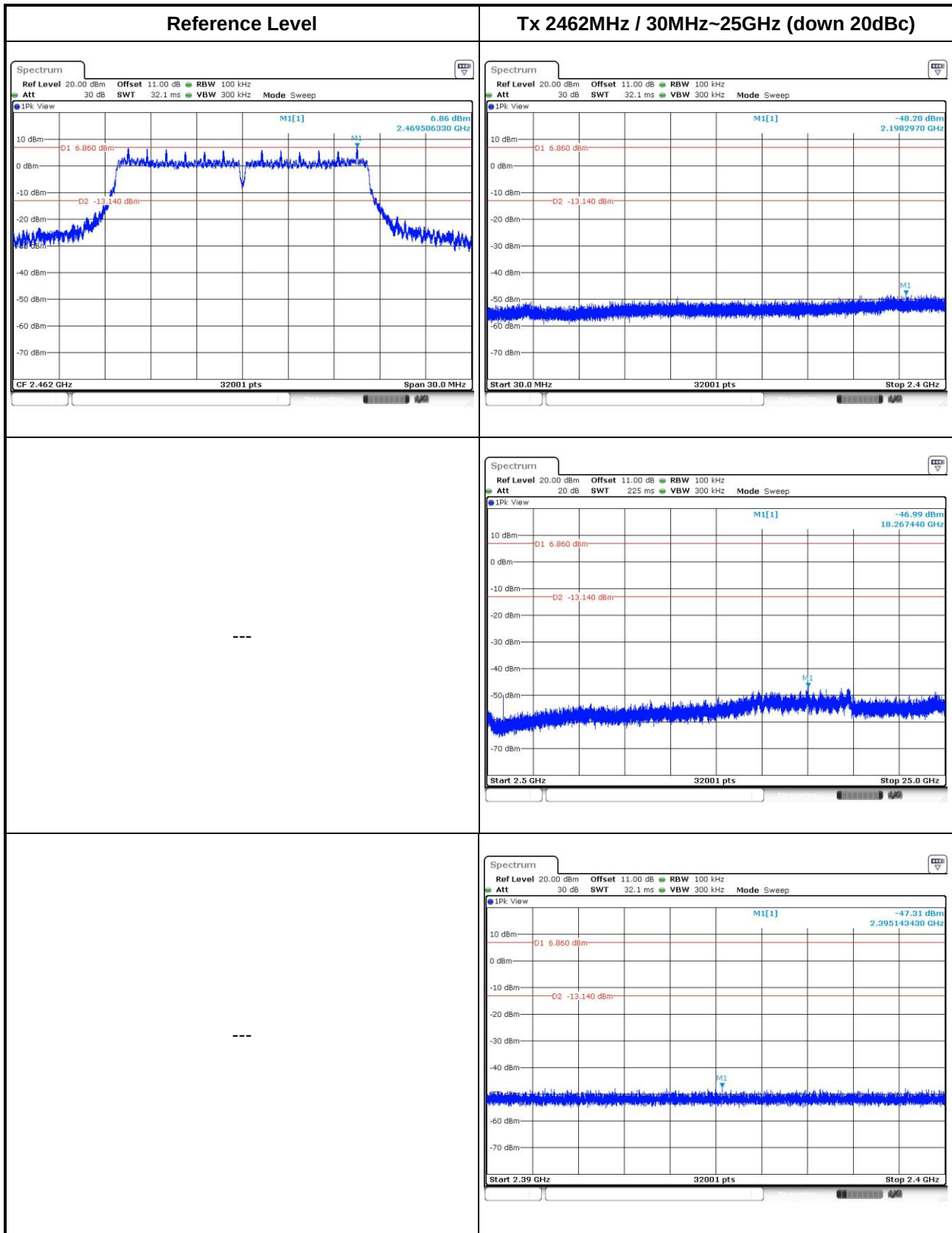




### 802.11g

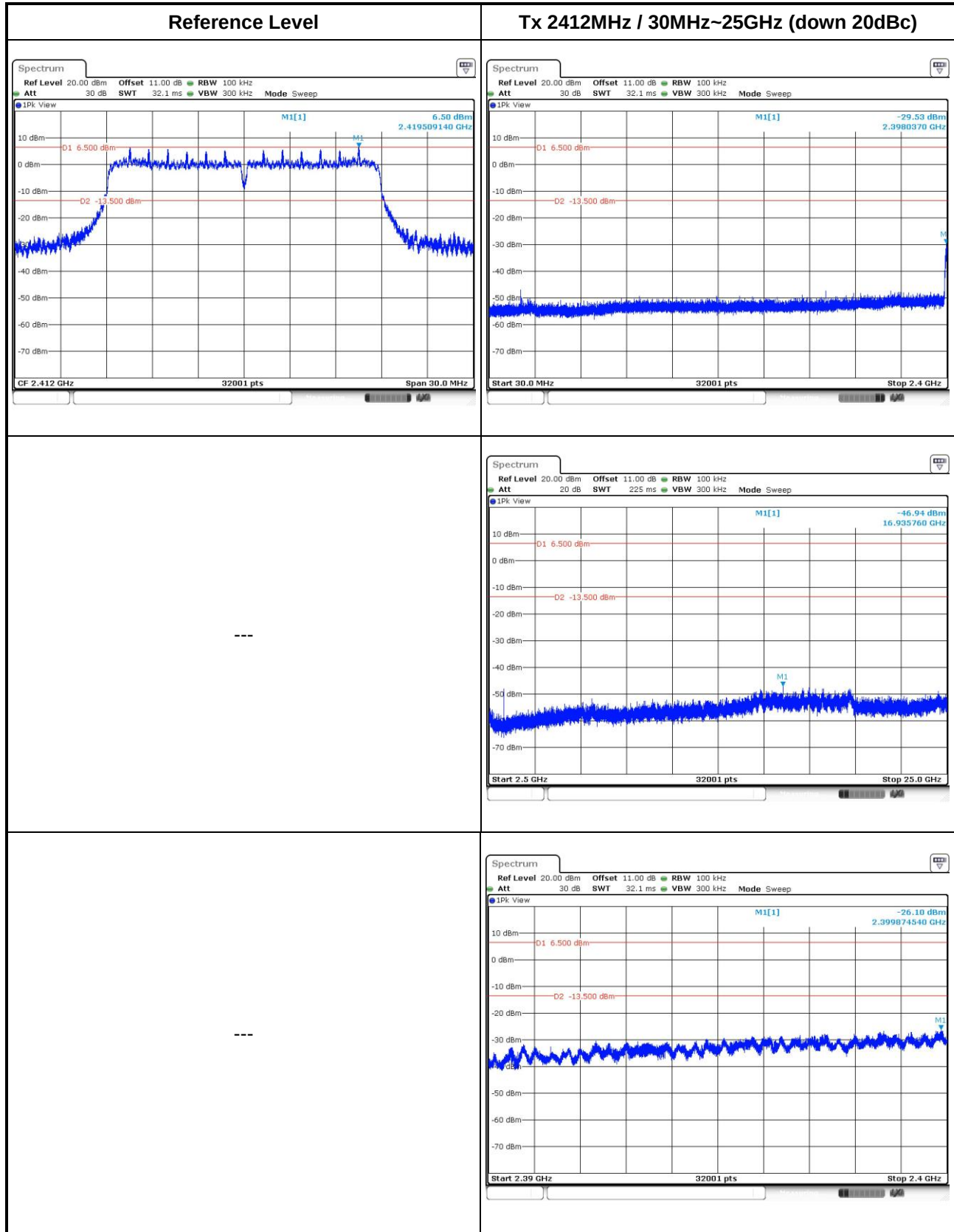




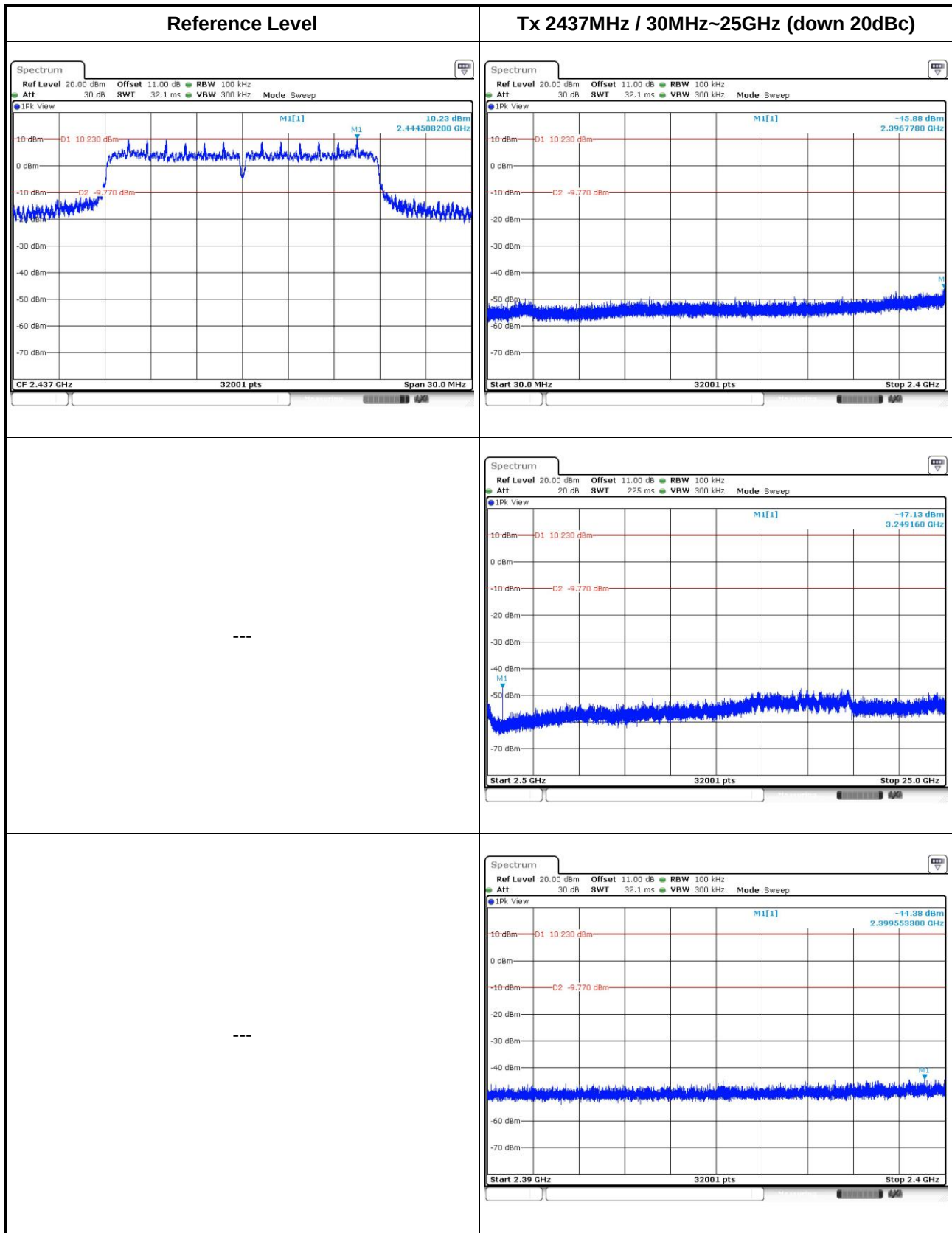


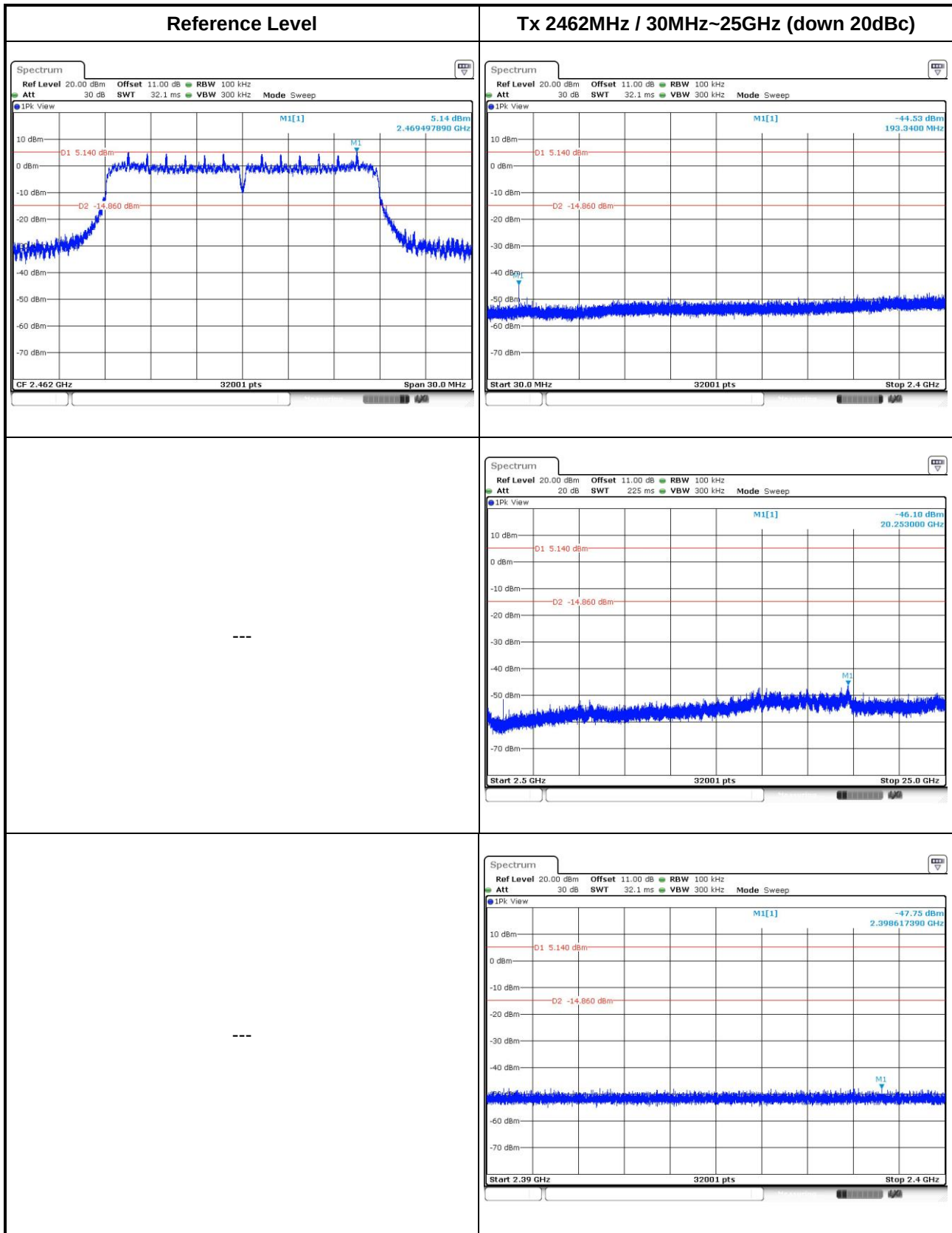


## 802.11n HT20

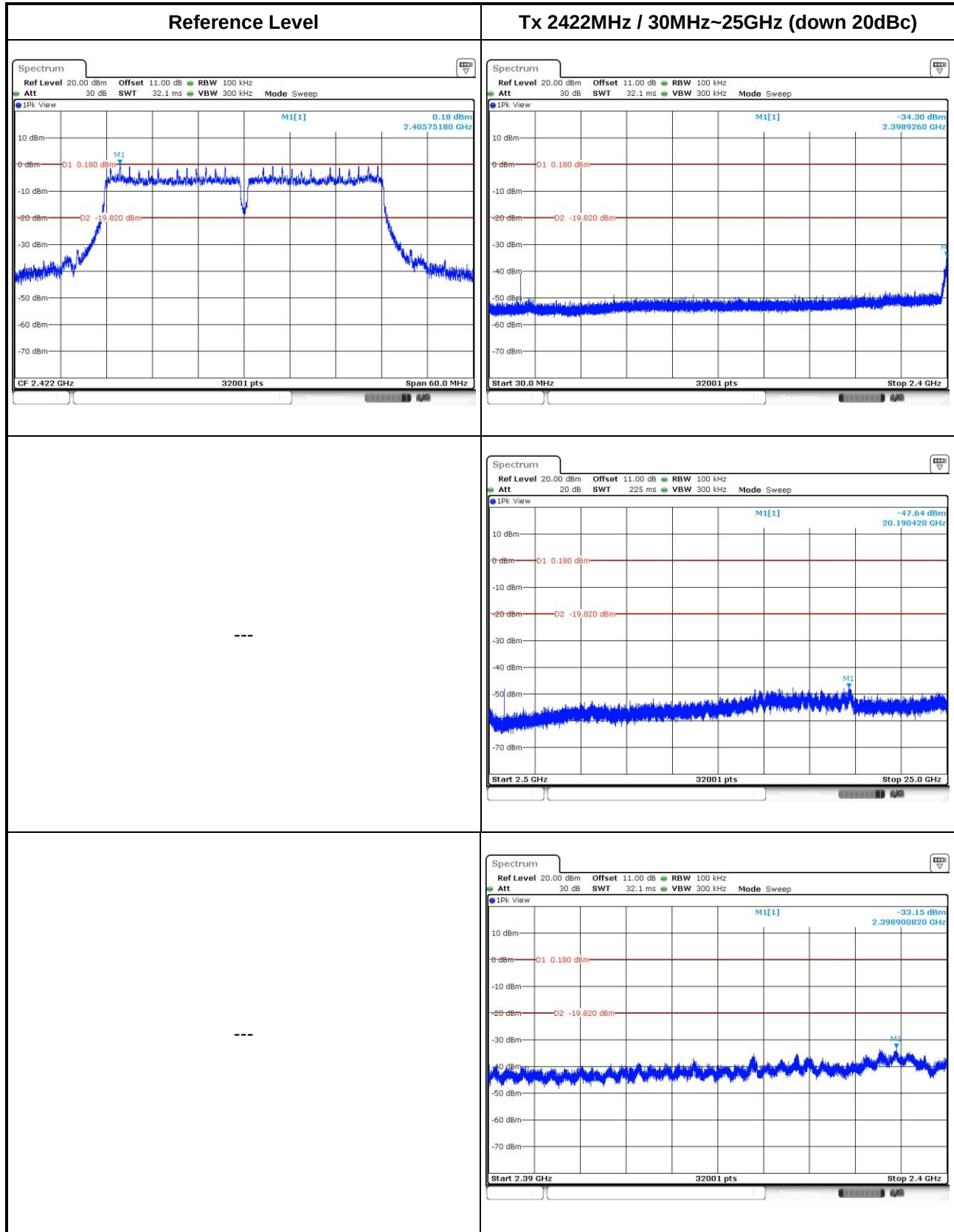


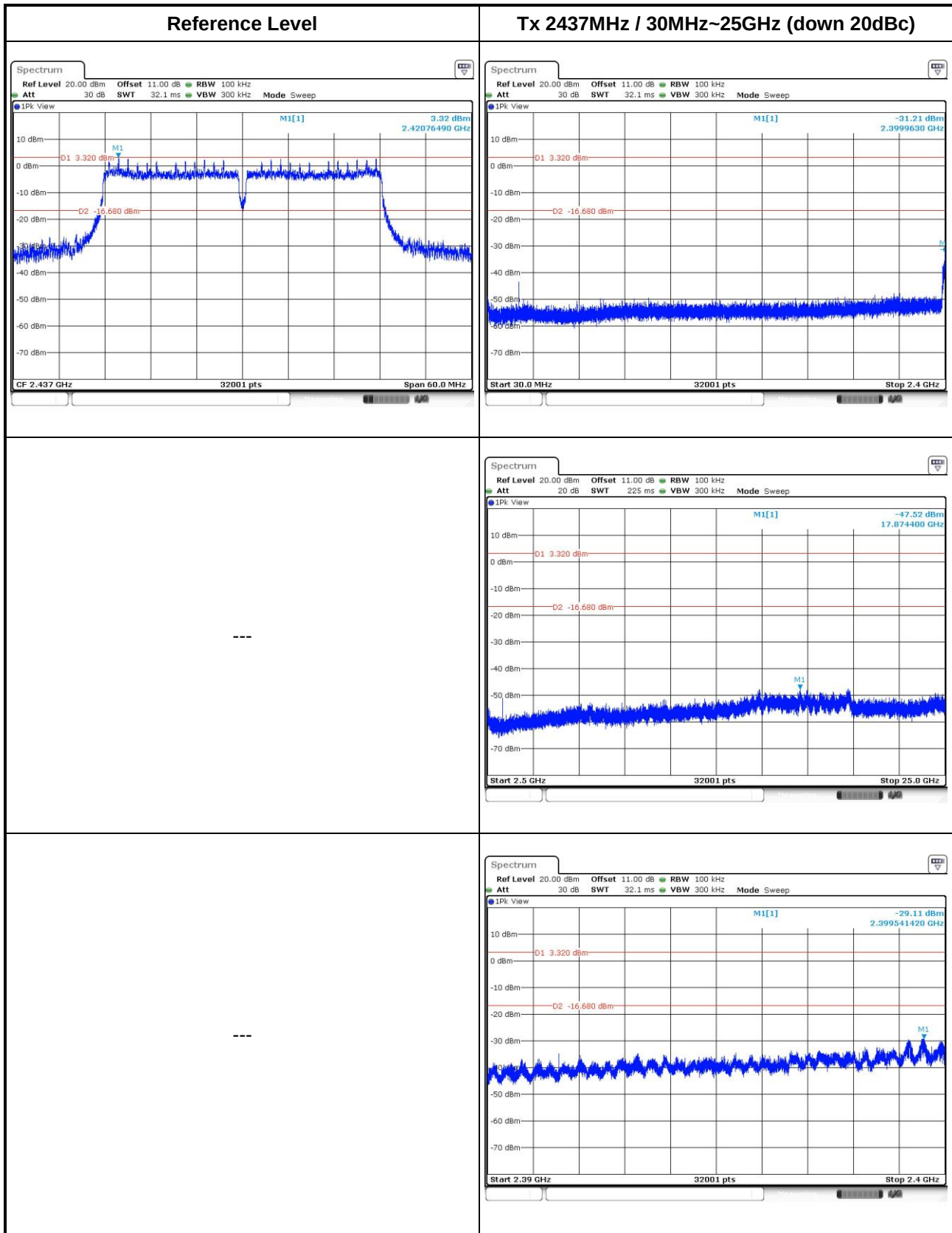


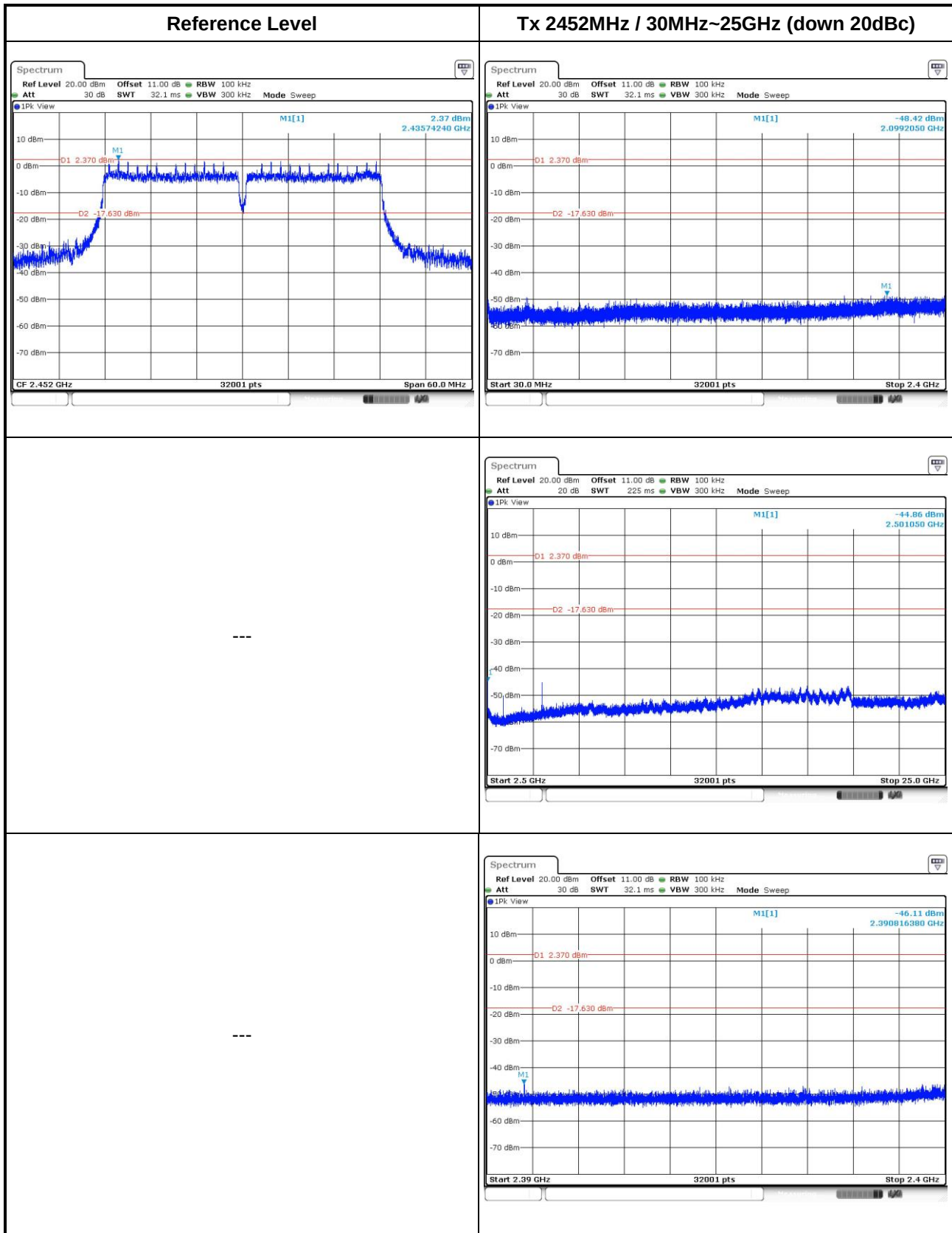




## 802.11n HT40







### 3.6 Transmitter Radiated Unwanted Emissions

#### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted Band Emissions Limit |            |
|------------------------------------|------------|
| RF output power procedure          | Limit (dB) |
| Peak output power procedure        | 20         |
| Average output power procedure     | 30         |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

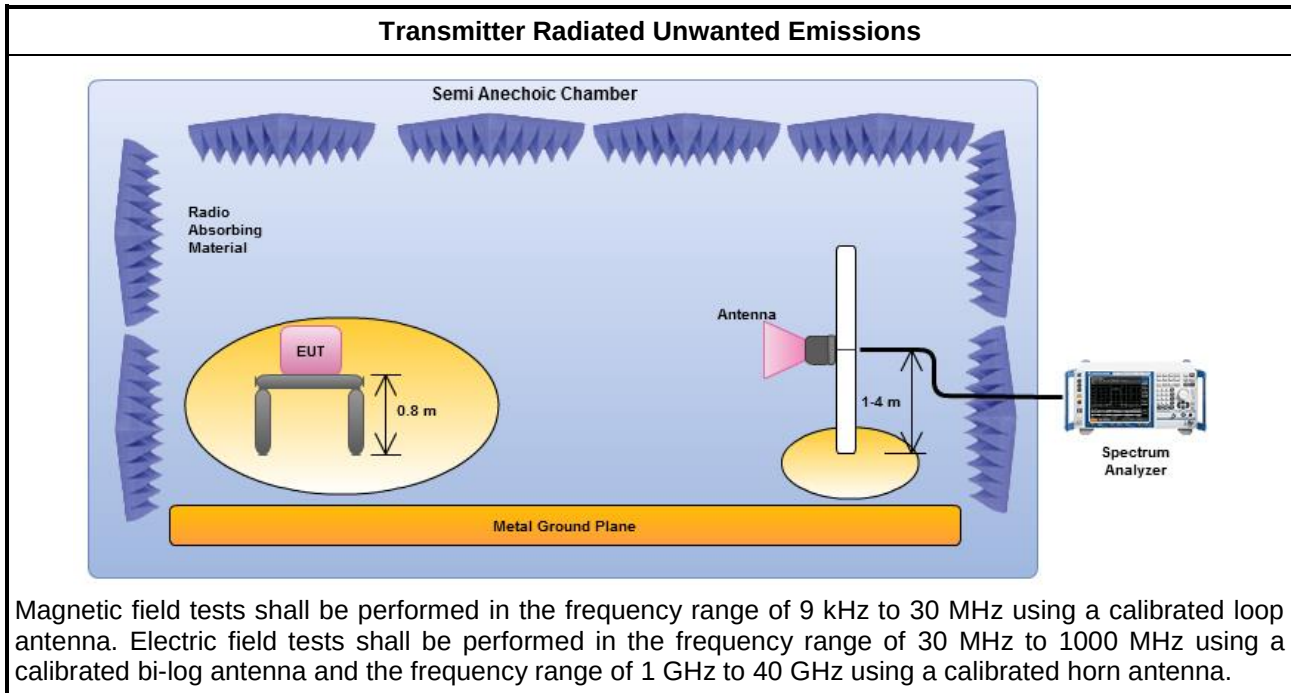


### 3.6.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 11 for unwanted emissions into non-restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 12 for unwanted emissions into restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/>            | Refer as FCC KDB 558074 v03r02, clause 12.2.5.2 Option 2 (trace averaging + duty factor).                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074 v03r02, clause 12.2.3 measurement procedure Quasi-Peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | For radiated measurement, refer as FCC KDB 558074 v03r02, clause 12.2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Test Method              |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | For conducted and cabinet radiation measurement, refer as FCC KDB 558074 v03r02, clause 12.2                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> | For conducted unwanted emissions into non-restricted bands (relative emission limits).<br>Devices with multiple transmit chains:<br>Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs. |
| <input type="checkbox"/> | For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB                                                                                                                                                                             |

### 3.6.4 Test Setup



Note: Test distance is 3m.

### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

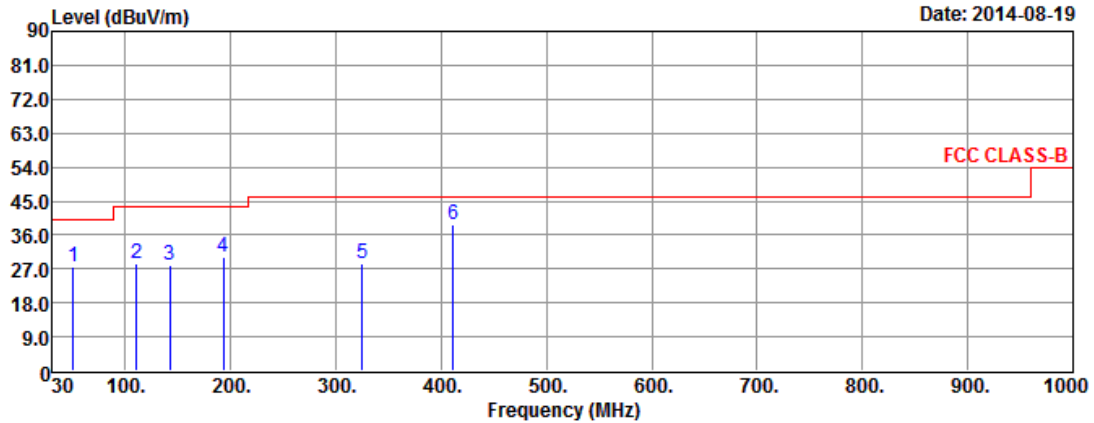
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.





**Transmitter Radiated Unwanted Emissions (Below 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b>    | V   |                         |      |



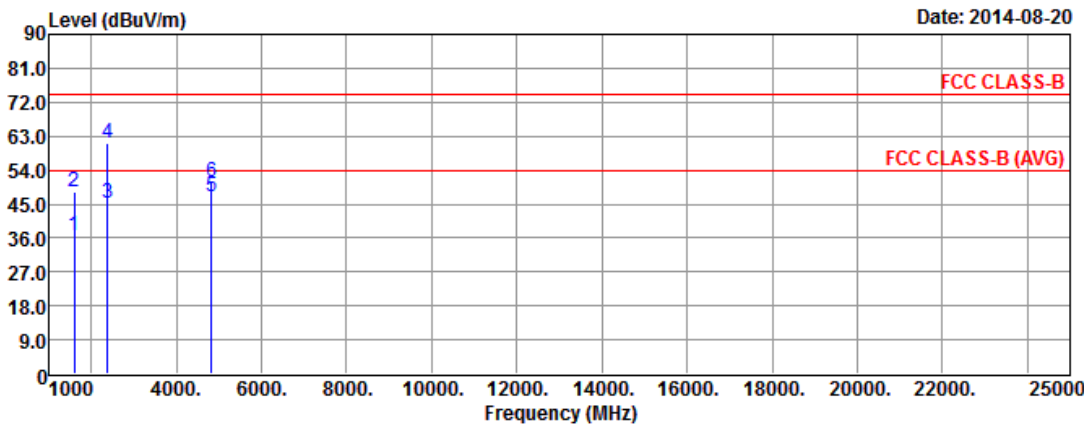
|   | Freq   | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark |
|---|--------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|--------|
|   | MHz    | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |        |
| 1 | 50.37  | 27.49  | -12.51     | 40.00      | 44.04      | 14.77          | 0.40       | 31.72        | ---   | ---   | Peak   |
| 2 | 110.51 | 28.37  | -15.13     | 43.50      | 48.50      | 10.85          | 0.59       | 31.57        | ---   | ---   | Peak   |
| 3 | 142.52 | 28.09  | -15.41     | 43.50      | 45.23      | 13.70          | 0.68       | 31.52        | ---   | ---   | Peak   |
| 4 | 192.96 | 30.11  | -13.39     | 43.50      | 49.72      | 11.07          | 0.79       | 31.47        | ---   | ---   | Peak   |
| 5 | 324.88 | 28.60  | -17.40     | 46.00      | 44.20      | 14.70          | 1.08       | 31.38        | ---   | ---   | Peak   |
| 6 | 411.21 | 38.68  | -7.32      | 46.00      | 52.07      | 16.72          | 1.25       | 31.36        | ---   | ---   | Peak   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

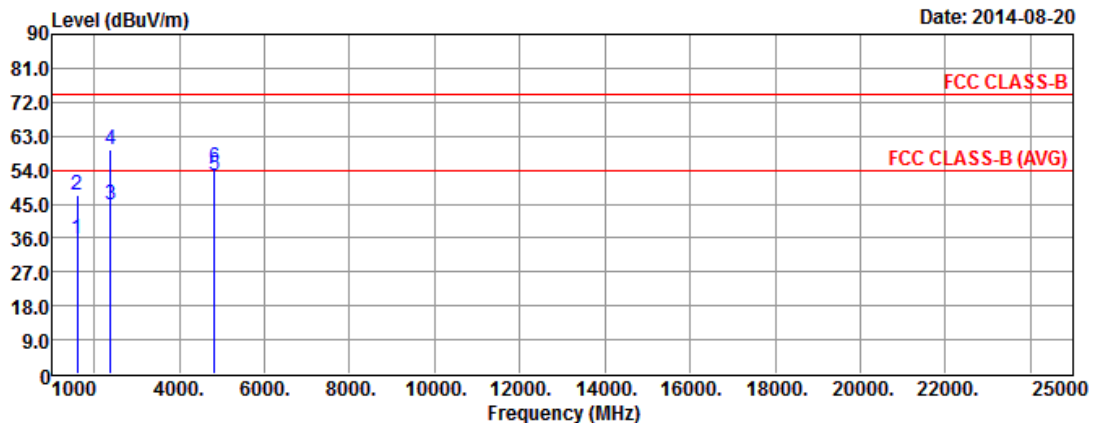
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

**3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b**

| Transmitter Radiated Unwanted Emissions (Above 1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |            |            |                  |                |            |                |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|------------|------------|------------------|----------------|------------|----------------|-------|-------|---------|--|------|-------|------------|------------|------------|----------------|------------|----------------|-------|-------|--------|--|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|
| Modulation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11b     |        |            |            | Test Freq. (MHz) |                |            | 2412           |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| N <sub>TX</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1       |        |            |            | Polarization     |                |            | H              |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div><div><div>Level (dBUV/m)</div><div></div><div>Date: 2014-08-20</div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preampl Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBUV/m</th><th>dB</th><th>dBUV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1608.00</td><td>36.53</td><td>-17.47</td><td>54.00</td><td>43.28</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>2</td><td>1608.00</td><td>48.14</td><td>-25.86</td><td>74.00</td><td>54.89</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>2390.00</td><td>45.16</td><td>-8.84</td><td>54.00</td><td>48.84</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>4</td><td>2390.00</td><td>61.07</td><td>-12.93</td><td>74.00</td><td>64.75</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>4824.00</td><td>46.79</td><td>-7.21</td><td>54.00</td><td>41.80</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>6</td><td>4824.00</td><td>50.81</td><td>-23.19</td><td>74.00</td><td>45.82</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Peak</td></tr></table></div> |         |        |            |            |                  |                |            |                |       |       |         |  | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark |  | MHz | dBUV/m | dB | dBUV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 1608.00 | 36.53 | -17.47 | 54.00 | 43.28 | 25.39 | 3.47 | 35.61 | --- | --- | Average | 2 | 1608.00 | 48.14 | -25.86 | 74.00 | 54.89 | 25.39 | 3.47 | 35.61 | --- | --- | Peak | 3 | 2390.00 | 45.16 | -8.84 | 54.00 | 48.84 | 26.64 | 4.51 | 34.83 | --- | --- | Average | 4 | 2390.00 | 61.07 | -12.93 | 74.00 | 64.75 | 26.64 | 4.51 | 34.83 | --- | --- | Peak | 5 | 4824.00 | 46.79 | -7.21 | 54.00 | 41.80 | 31.02 | 7.88 | 33.91 | --- | --- | Average | 6 | 4824.00 | 50.81 | -23.19 | 74.00 | 45.82 | 31.02 | 7.88 | 33.91 | --- | --- | Peak |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Freq    | Level  | Over Limit | Limit Line | Read Level       | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark  |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MHz     | dBUV/m | dB         | dBUV/m     | dBuV             | dB/m           | dB         | dB             | cm    | deg   |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1608.00 | 36.53  | -17.47     | 54.00      | 43.28            | 25.39          | 3.47       | 35.61          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1608.00 | 48.14  | -25.86     | 74.00      | 54.89            | 25.39          | 3.47       | 35.61          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2390.00 | 45.16  | -8.84      | 54.00      | 48.84            | 26.64          | 4.51       | 34.83          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2390.00 | 61.07  | -12.93     | 74.00      | 64.75            | 26.64          | 4.51       | 34.83          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4824.00 | 46.79  | -7.21      | 54.00      | 41.80            | 31.02          | 7.88       | 33.91          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4824.00 | 50.81  | -23.19     | 74.00      | 45.82            | 31.02          | 7.88       | 33.91          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div><div>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div><div>Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)</div><div>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</div><div>Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</div><div>Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |            |            |                  |                |            |                |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2412 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 1608.00 | 35.85  | -18.15     | 54.00      | 42.60      | 25.39          | 3.47       | 35.61        | ---   | ---   | Average |
| 2 | 1608.00 | 47.47  | -26.53     | 74.00      | 54.22      | 25.39          | 3.47       | 35.61        | ---   | ---   | Peak    |
| 3 | 2390.00 | 44.58  | -9.42      | 54.00      | 48.26      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 4 | 2390.00 | 59.28  | -14.72     | 74.00      | 62.96      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 5 | 4824.00 | 52.74  | -1.26      | 54.00      | 47.75      | 31.02          | 7.88       | 33.91        | ---   | ---   | Average |
| 6 | 4824.00 | 54.62  | -19.38     | 74.00      | 49.63      | 31.02          | 7.88       | 33.91        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

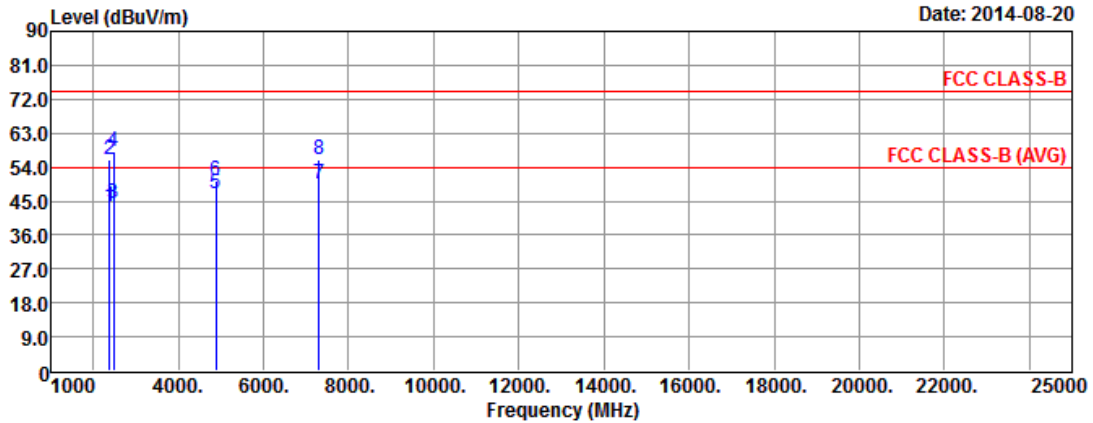
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 43.61  | -10.39     | 54.00      | 47.29      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 55.80  | -18.20     | 74.00      | 59.48      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 44.32  | -9.68      | 54.00      | 47.62      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 58.16  | -15.84     | 74.00      | 61.46      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 47.12  | -6.88      | 54.00      | 42.02      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 50.53  | -23.47     | 74.00      | 45.43      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 49.63  | -4.37      | 54.00      | 40.30      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 55.86  | -18.14     | 74.00      | 46.53      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

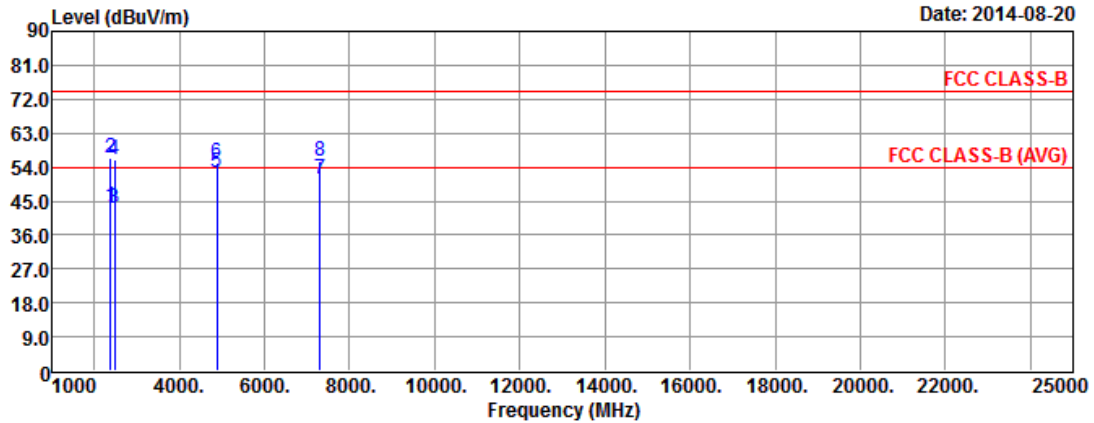
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 43.53  | -10.47     | 54.00      | 47.21      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 56.49  | -17.51     | 74.00      | 60.17      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 42.96  | -11.04     | 54.00      | 46.26      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 56.10  | -17.90     | 74.00      | 59.40      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 52.73  | -1.27      | 54.00      | 47.63      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 54.97  | -19.03     | 74.00      | 49.87      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 50.75  | -3.25      | 54.00      | 41.42      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 55.45  | -18.55     | 74.00      | 46.12      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

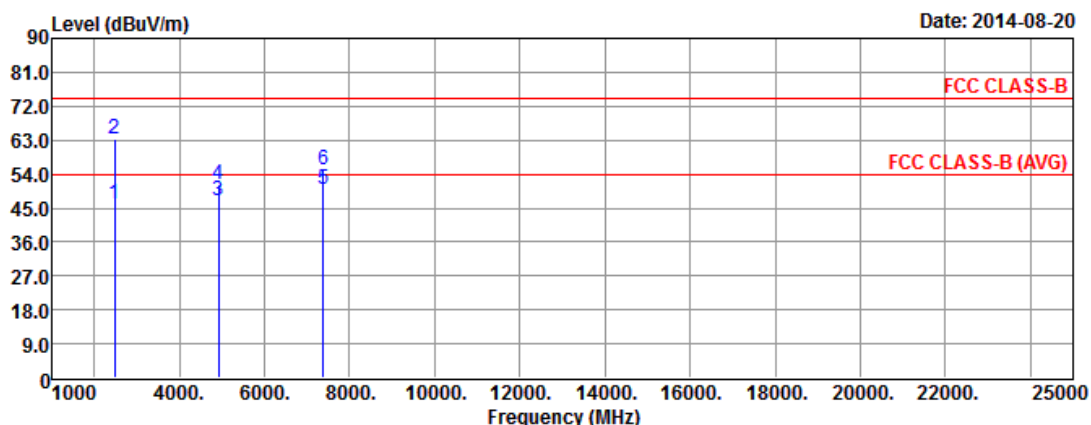
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2462 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 46.20  | -7.80      | 54.00      | 49.50      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 63.13  | -10.87     | 74.00      | 66.43      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 46.83  | -7.17      | 54.00      | 41.63      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 51.19  | -22.81     | 74.00      | 45.99      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 49.94  | -4.06      | 54.00      | 40.55      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 55.27  | -18.73     | 74.00      | 45.88      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

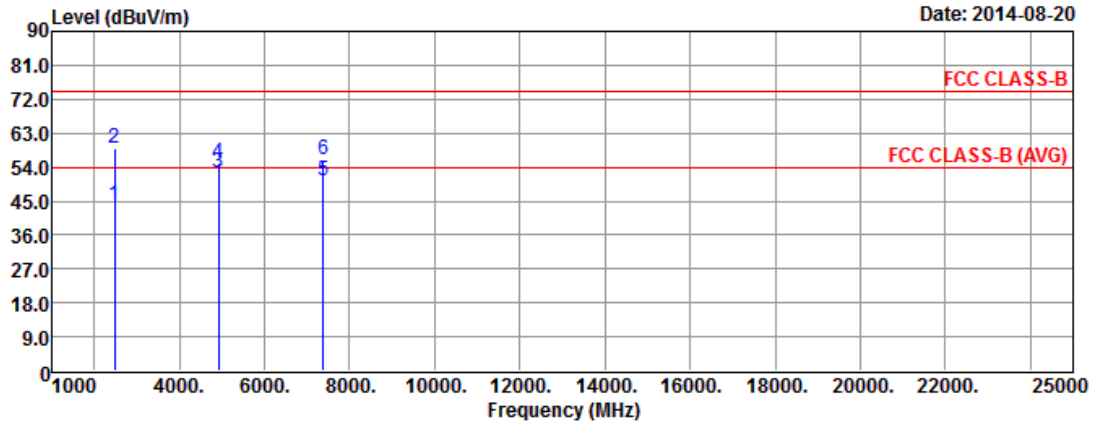
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11b | <b>Test Freq. (MHz)</b> | 2462 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 43.74  | -10.26     | 54.00      | 47.04      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 59.15  | -14.85     | 74.00      | 62.45      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 52.67  | -1.33      | 54.00      | 47.47      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 54.96  | -19.04     | 74.00      | 49.76      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 50.54  | -3.46      | 54.00      | 41.15      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 56.07  | -17.93     | 74.00      | 46.68      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

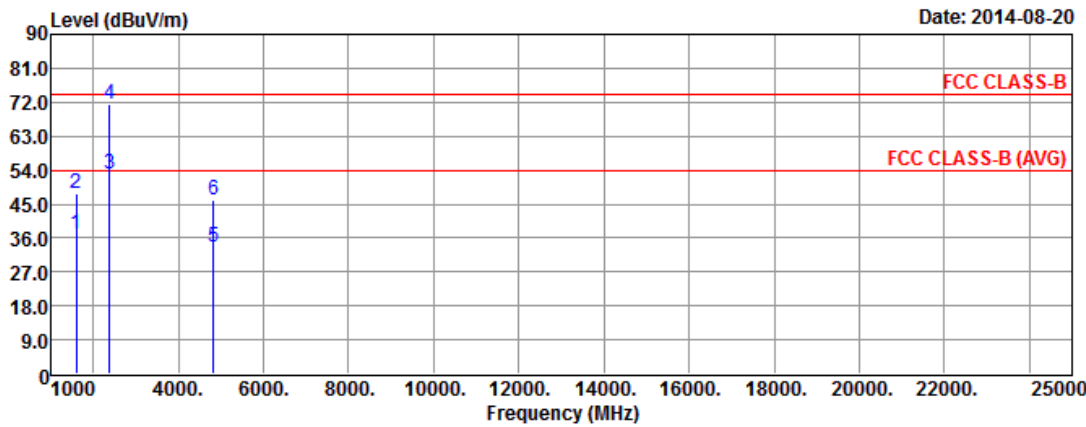
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

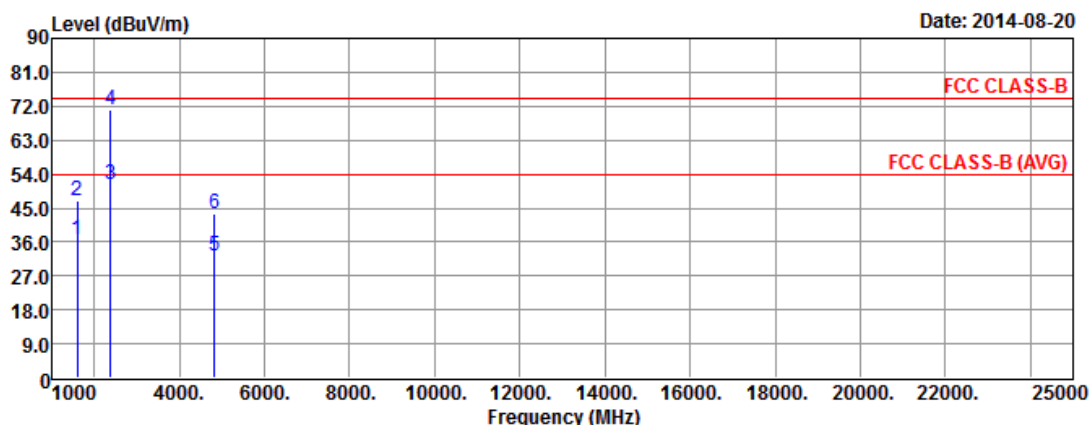


**3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g**

| Transmitter Radiated Unwanted Emissions (Above 1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |            |            |                  |                |            |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|------------|------------|------------------|----------------|------------|----------------|-------|-------|---------|------|-------|------------|------------|------------|----------------|------------|----------------|-------|-------|--------|--|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|
| Modulation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11g     |        |            |            | Test Freq. (MHz) |                | 2412       |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| N <sub>TX</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1       |        |            |            | Polarization     |                | H          |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div><div><div>Level (dBuV/m)</div><div></div><div>Date: 2014-08-20</div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preampl Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1608.00</td><td>36.86</td><td>-17.14</td><td>54.00</td><td>43.61</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>2</td><td>1608.00</td><td>47.61</td><td>-26.39</td><td>74.00</td><td>54.36</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>2390.00</td><td>52.79</td><td>-1.21</td><td>54.00</td><td>56.47</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>4</td><td>2390.00</td><td>71.67</td><td>-2.33</td><td>74.00</td><td>75.35</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>4824.00</td><td>33.78</td><td>-20.22</td><td>54.00</td><td>28.79</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>6</td><td>4824.00</td><td>45.92</td><td>-28.08</td><td>74.00</td><td>40.93</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Peak</td></tr></table></div> |         |        |            |            |                  |                |            |                |       |       |         | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 1608.00 | 36.86 | -17.14 | 54.00 | 43.61 | 25.39 | 3.47 | 35.61 | --- | --- | Average | 2 | 1608.00 | 47.61 | -26.39 | 74.00 | 54.36 | 25.39 | 3.47 | 35.61 | --- | --- | Peak | 3 | 2390.00 | 52.79 | -1.21 | 54.00 | 56.47 | 26.64 | 4.51 | 34.83 | --- | --- | Average | 4 | 2390.00 | 71.67 | -2.33 | 74.00 | 75.35 | 26.64 | 4.51 | 34.83 | --- | --- | Peak | 5 | 4824.00 | 33.78 | -20.22 | 54.00 | 28.79 | 31.02 | 7.88 | 33.91 | --- | --- | Average | 6 | 4824.00 | 45.92 | -28.08 | 74.00 | 40.93 | 31.02 | 7.88 | 33.91 | --- | --- | Peak |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Freq    | Level  | Over Limit | Limit Line | Read Level       | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MHz     | dBuV/m | dB         | dBuV/m     | dBuV             | dB/m           | dB         | dB             | cm    | deg   |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1608.00 | 36.86  | -17.14     | 54.00      | 43.61            | 25.39          | 3.47       | 35.61          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1608.00 | 47.61  | -26.39     | 74.00      | 54.36            | 25.39          | 3.47       | 35.61          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2390.00 | 52.79  | -1.21      | 54.00      | 56.47            | 26.64          | 4.51       | 34.83          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2390.00 | 71.67  | -2.33      | 74.00      | 75.35            | 26.64          | 4.51       | 34.83          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4824.00 | 33.78  | -20.22     | 54.00      | 28.79            | 31.02          | 7.88       | 33.91          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4824.00 | 45.92  | -28.08     | 74.00      | 40.93            | 31.02          | 7.88       | 33.91          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div> <div>Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)</div> <div>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</div> <div>Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</div> <div>Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        |            |            |                  |                |            |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11g | <b>Test Freq. (MHz)</b> | 2412 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 1608.00 | 36.53  | -17.47     | 54.00      | 43.28      | 25.39          | 3.47       | 35.61        | ---   | ---   | Average |
| 2 | 1608.00 | 46.85  | -27.15     | 74.00      | 53.60      | 25.39          | 3.47       | 35.61        | ---   | ---   | Peak    |
| 3 | 2390.00 | 51.17  | -2.83      | 54.00      | 54.85      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 4 | 2390.00 | 71.11  | -2.89      | 74.00      | 74.79      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 5 | 4824.00 | 32.42  | -21.58     | 54.00      | 27.43      | 31.02          | 7.88       | 33.91        | ---   | ---   | Average |
| 6 | 4824.00 | 43.47  | -30.53     | 74.00      | 38.48      | 31.02          | 7.88       | 33.91        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

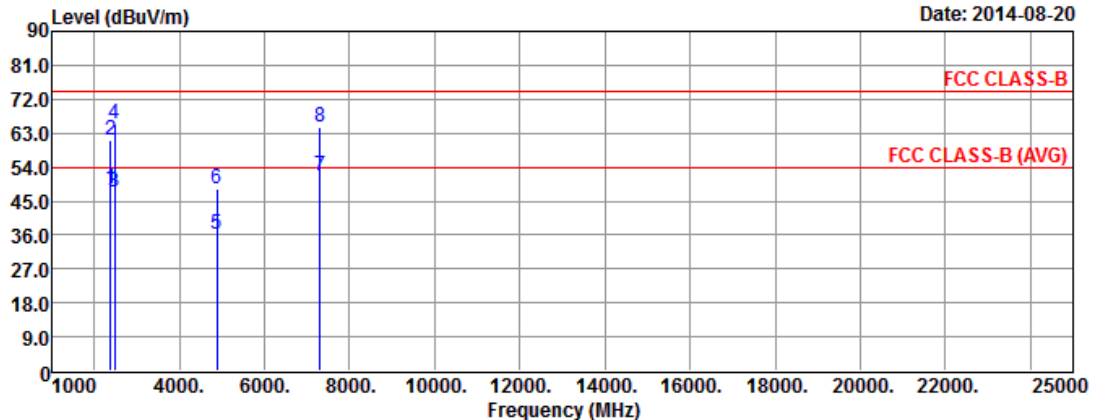
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11g | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 48.05  | -5.95      | 54.00      | 51.73      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 61.06  | -12.94     | 74.00      | 64.74      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 47.35  | -6.65      | 54.00      | 50.65      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 65.32  | -8.68      | 74.00      | 68.62      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 35.96  | -18.04     | 54.00      | 30.86      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 48.11  | -25.89     | 74.00      | 43.01      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 51.66  | -2.34      | 54.00      | 42.33      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 64.59  | -9.41      | 74.00      | 55.26      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

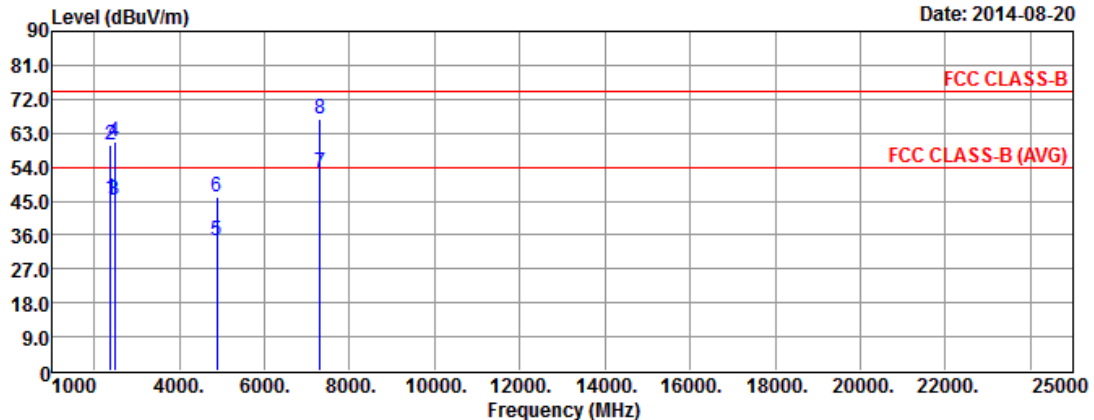
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11g | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 45.69  | -8.31      | 54.00      | 49.37      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 59.90  | -14.10     | 74.00      | 63.58      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 45.02  | -8.98      | 54.00      | 48.32      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 60.52  | -13.48     | 74.00      | 63.82      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 34.48  | -19.52     | 54.00      | 29.38      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 45.91  | -28.09     | 74.00      | 40.81      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 52.56  | -1.44      | 54.00      | 43.23      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 66.70  | -7.30      | 74.00      | 57.37      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

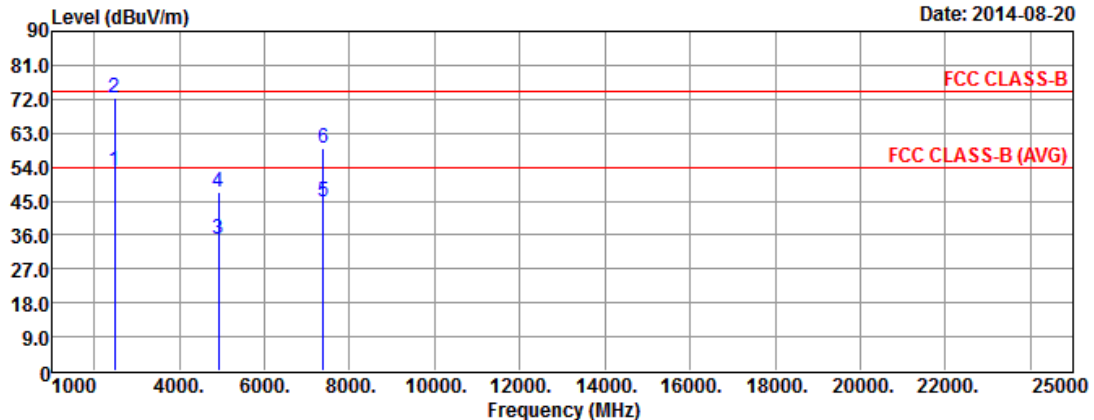
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11g | <b>Test Freq. (MHz)</b> | 2462 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 52.80  | -1.20      | 54.00      | 56.10      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 72.25  | -1.75      | 74.00      | 75.55      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 34.79  | -19.21     | 54.00      | 29.59      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 47.42  | -26.58     | 74.00      | 42.22      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 44.97  | -9.03      | 54.00      | 35.58      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 59.15  | -14.85     | 74.00      | 49.76      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

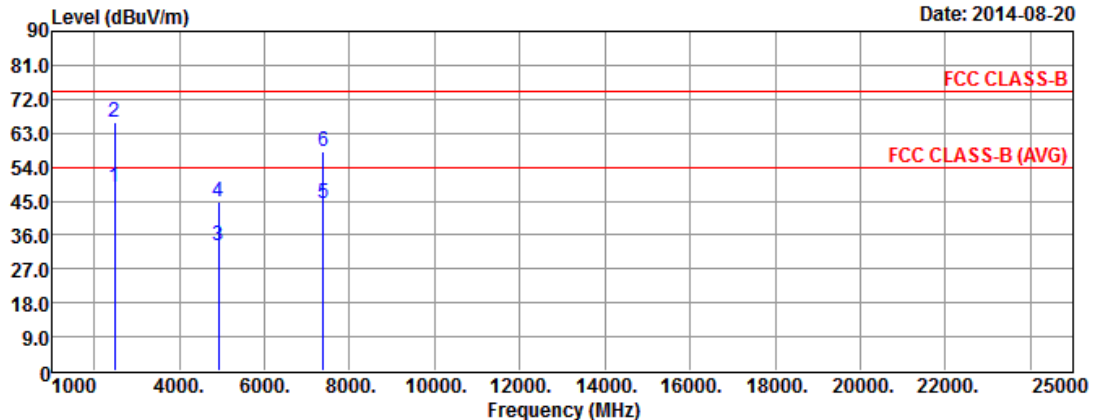
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |     |                  |      |
|-----------------|-----|------------------|------|
| Modulation Mode | 11g | Test Freq. (MHz) | 2462 |
| N <sub>TX</sub> | 1   | Polarization     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 48.73  | -5.27      | 54.00      | 52.03      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 65.92  | -8.08      | 74.00      | 69.22      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 33.18  | -20.82     | 54.00      | 27.98      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 44.61  | -29.39     | 74.00      | 39.41      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 44.28  | -9.72      | 54.00      | 34.89      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 58.19  | -15.81     | 74.00      | 48.80      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

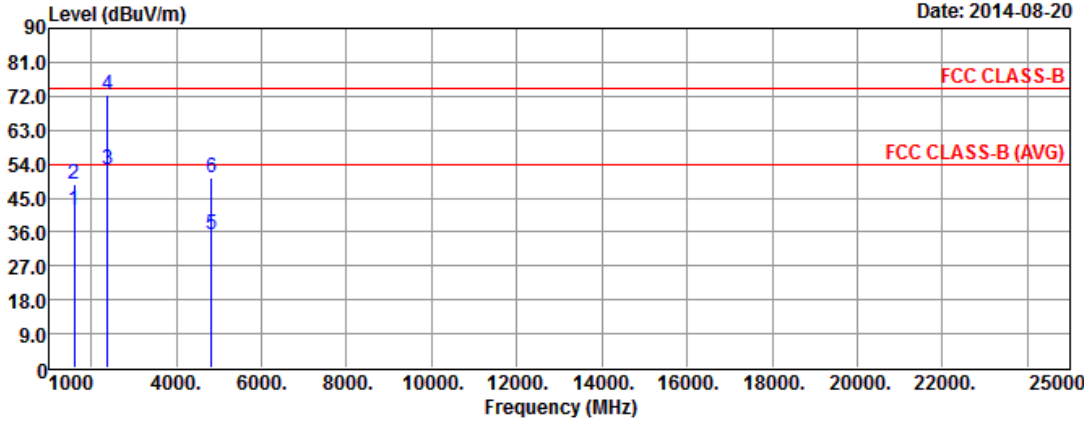
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

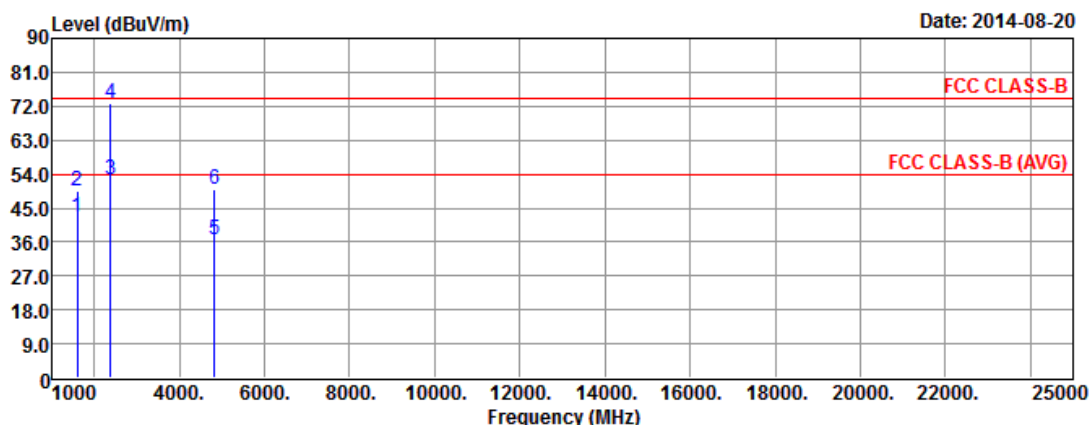
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

### 3.6.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

| Transmitter Radiated Unwanted Emissions (Above 1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |            |            |            |                  |            |                |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|------------|------------|------------|------------------|------------|----------------|-------|-------|---------|--|------|-------|------------|------------|------------|----------------|------------|----------------|-------|-------|--------|--|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|---------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|
| Modulation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | HT20   |            |            |            | Test Freq. (MHz) |            | 2412           |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| N <sub>TX</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | 2      |            |            |            | Polarization     |            | H              |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div><div><div>Level (dBuV/m)</div><div></div><div>Date: 2014-08-20</div></div><table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preampl Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>1608.00</td><td>41.83</td><td>-12.17</td><td>54.00</td><td>48.58</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>2</td><td>1608.00</td><td>48.48</td><td>-25.52</td><td>74.00</td><td>55.23</td><td>25.39</td><td>3.47</td><td>35.61</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>2390.00</td><td>52.61</td><td>-1.39</td><td>54.00</td><td>56.29</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>4</td><td>2390.00</td><td>72.37</td><td>-1.63</td><td>74.00</td><td>76.05</td><td>26.64</td><td>4.51</td><td>34.83</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>4824.00</td><td>35.30</td><td>-18.70</td><td>54.00</td><td>30.31</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>6</td><td>4824.00</td><td>50.36</td><td>-23.64</td><td>74.00</td><td>45.37</td><td>31.02</td><td>7.88</td><td>33.91</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table></div> |         |        |            |            |            |                  |            |                |       |       |         |  | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 1608.00 | 41.83 | -12.17 | 54.00 | 48.58 | 25.39 | 3.47 | 35.61 | --- | --- | Average | 2 | 1608.00 | 48.48 | -25.52 | 74.00 | 55.23 | 25.39 | 3.47 | 35.61 | --- | --- | Peak | 3 | 2390.00 | 52.61 | -1.39 | 54.00 | 56.29 | 26.64 | 4.51 | 34.83 | --- | --- | Average | 4 | 2390.00 | 72.37 | -1.63 | 74.00 | 76.05 | 26.64 | 4.51 | 34.83 | --- | --- | Peak | 5 | 4824.00 | 35.30 | -18.70 | 54.00 | 30.31 | 31.02 | 7.88 | 33.91 | --- | --- | Average | 6 | 4824.00 | 50.36 | -23.64 | 74.00 | 45.37 | 31.02 | 7.88 | 33.91 | --- | --- | Peak |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor   | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark  |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m             | dB         | dB             | cm    | deg   |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1608.00 | 41.83  | -12.17     | 54.00      | 48.58      | 25.39            | 3.47       | 35.61          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1608.00 | 48.48  | -25.52     | 74.00      | 55.23      | 25.39            | 3.47       | 35.61          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2390.00 | 52.61  | -1.39      | 54.00      | 56.29      | 26.64            | 4.51       | 34.83          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2390.00 | 72.37  | -1.63      | 74.00      | 76.05      | 26.64            | 4.51       | 34.83          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4824.00 | 35.30  | -18.70     | 54.00      | 30.31      | 31.02            | 7.88       | 33.91          | ---   | ---   | Average |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4824.00 | 50.36  | -23.64     | 74.00      | 45.37      | 31.02            | 7.88       | 33.91          | ---   | ---   | Peak    |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |
| <div>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div> <div>Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)</div> <div>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</div> <div>Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</div> <div>Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |            |            |            |                  |            |                |       |       |         |  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 2412 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 1608.00 | 42.65  | -11.35     | 54.00      | 49.40      | 25.39          | 3.47       | 35.61        | ---   | ---   | Average |
| 2 | 1608.00 | 49.57  | -24.43     | 74.00      | 56.32      | 25.39          | 3.47       | 35.61        | ---   | ---   | Peak    |
| 3 | 2390.00 | 52.36  | -1.64      | 54.00      | 56.04      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 4 | 2390.00 | 72.78  | -1.22      | 74.00      | 76.46      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 5 | 4824.00 | 36.42  | -17.58     | 54.00      | 31.43      | 31.02          | 7.88       | 33.91        | ---   | ---   | Average |
| 6 | 4824.00 | 50.01  | -23.99     | 74.00      | 45.02      | 31.02          | 7.88       | 33.91        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

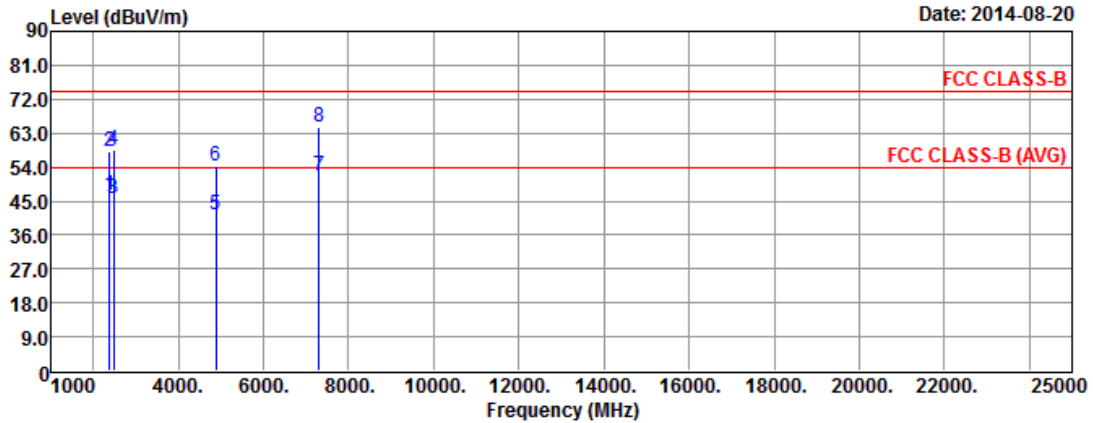
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 46.43  | -7.57      | 54.00      | 50.11      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 58.17  | -15.83     | 74.00      | 61.85      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 45.65  | -8.35      | 54.00      | 48.95      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 58.72  | -15.28     | 74.00      | 62.02      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 41.30  | -12.70     | 54.00      | 36.20      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 54.40  | -19.60     | 74.00      | 49.30      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 51.62  | -2.38      | 54.00      | 42.29      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 64.49  | -9.51      | 74.00      | 55.16      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

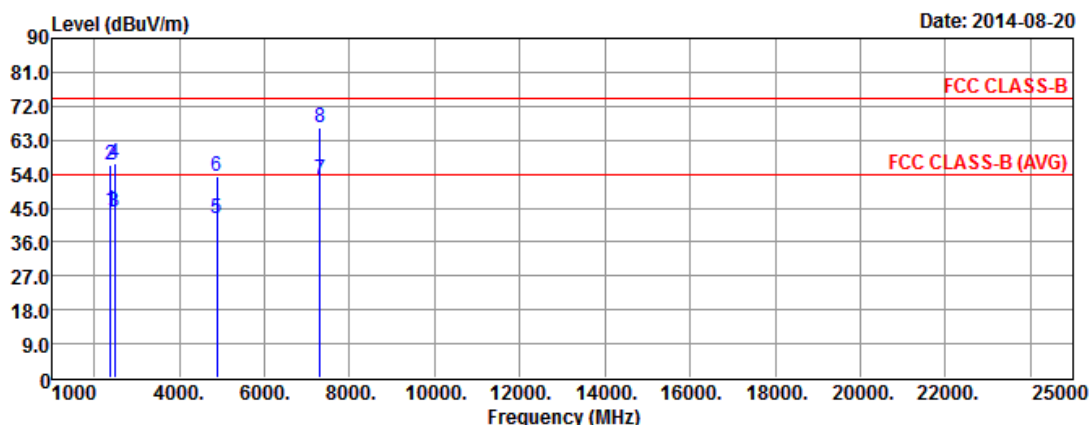
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 44.25  | -9.75      | 54.00      | 47.93      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 56.49  | -17.51     | 74.00      | 60.17      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 44.05  | -9.95      | 54.00      | 47.35      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 56.67  | -17.33     | 74.00      | 59.97      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 42.35  | -11.65     | 54.00      | 37.25      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 53.34  | -20.66     | 74.00      | 48.24      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 52.46  | -1.54      | 54.00      | 43.13      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 66.52  | -7.48      | 74.00      | 57.19      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

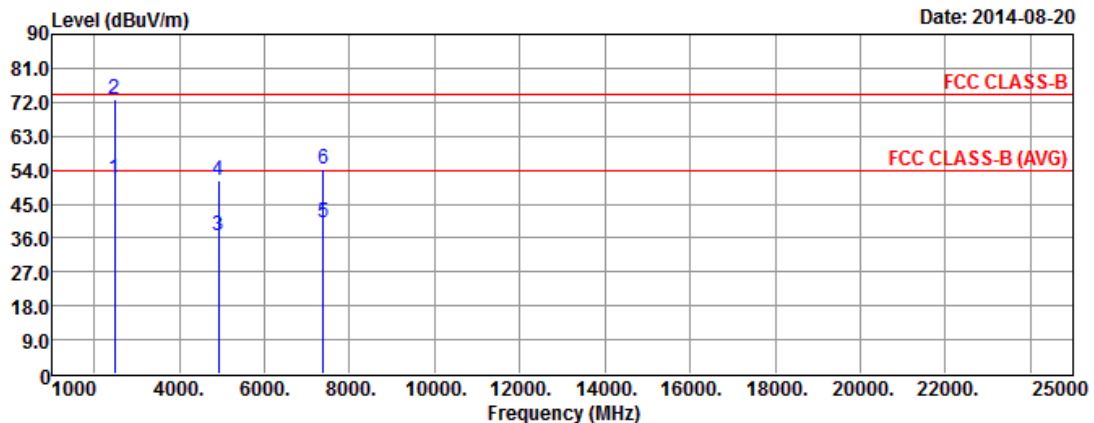
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 2462 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 51.81  | -2.19      | 54.00      | 55.11      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 72.75  | -1.25      | 74.00      | 76.05      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 36.80  | -17.20     | 54.00      | 31.60      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 51.42  | -22.58     | 74.00      | 46.22      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 40.25  | -13.75     | 54.00      | 30.86      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 54.43  | -19.57     | 74.00      | 45.04      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

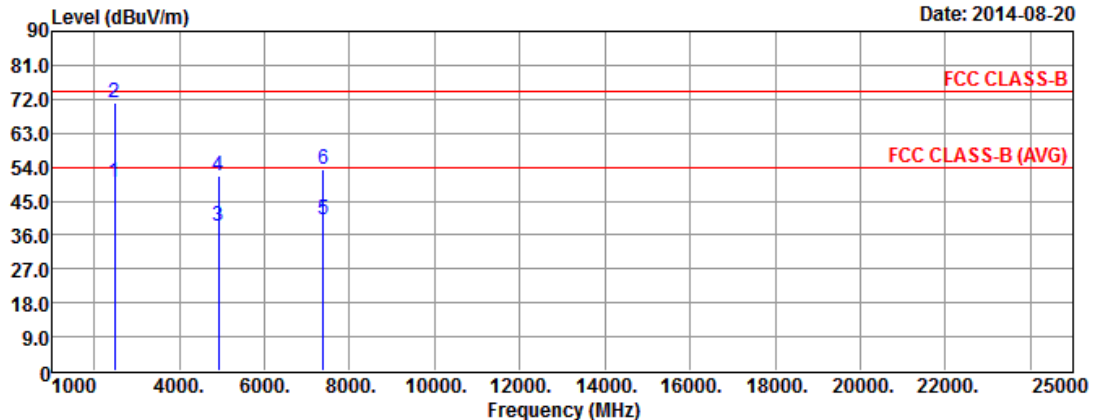
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 2462 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 50.05  | -3.95      | 54.00      | 53.35      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 70.84  | -3.16      | 74.00      | 74.14      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4924.00 | 38.30  | -15.70     | 54.00      | 33.10      | 31.18          | 7.89       | 33.87        | ---   | ---   | Average |
| 4 | 4924.00 | 51.64  | -22.36     | 74.00      | 46.44      | 31.18          | 7.89       | 33.87        | ---   | ---   | Peak    |
| 5 | 7386.00 | 39.94  | -14.06     | 54.00      | 30.55      | 35.87          | 8.44       | 34.92        | ---   | ---   | Average |
| 6 | 7386.00 | 53.44  | -20.56     | 74.00      | 44.05      | 35.87          | 8.44       | 34.92        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

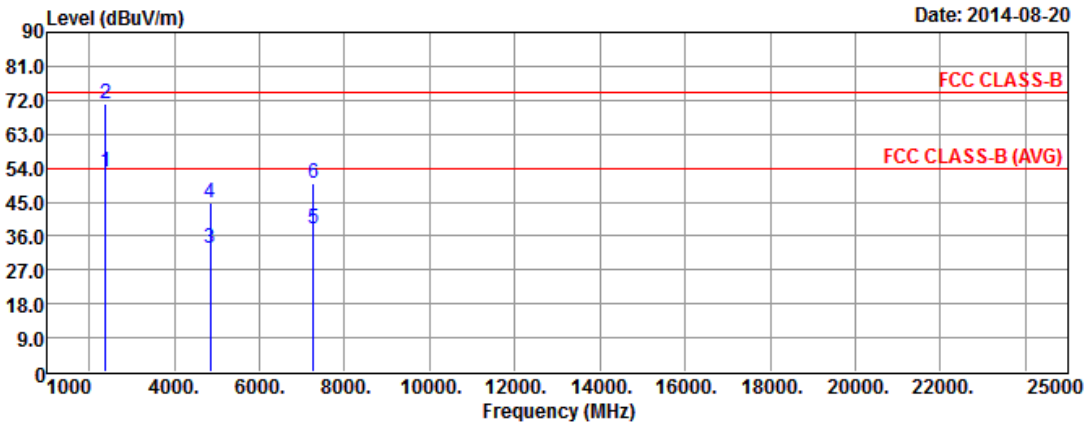
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**3.6.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40**

| Transmitter Radiated Unwanted Emissions (Above 1GHz) |      |  |  |  |                  |      |  |  |  |  |
|------------------------------------------------------|------|--|--|--|------------------|------|--|--|--|--|
| Modulation Mode                                      | HT40 |  |  |  | Test Freq. (MHz) | 2422 |  |  |  |  |
| N <sub>TX</sub>                                      | 2    |  |  |  | Polarization     | H    |  |  |  |  |



Date: 2014-08-20

|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 52.90  | -1.10      | 54.00      | 56.58      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 70.85  | -3.15      | 74.00      | 74.53      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 4844.00 | 32.65  | -21.35     | 54.00      | 27.62      | 31.05          | 7.88       | 33.90        | ---   | ---   | Average |
| 4 | 4844.00 | 44.90  | -29.10     | 74.00      | 39.87      | 31.05          | 7.88       | 33.90        | ---   | ---   | Peak    |
| 5 | 7266.00 | 37.72  | -16.28     | 54.00      | 28.42      | 35.63          | 8.50       | 34.83        | ---   | ---   | Average |
| 6 | 7266.00 | 49.93  | -24.07     | 74.00      | 40.63      | 35.63          | 8.50       | 34.83        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

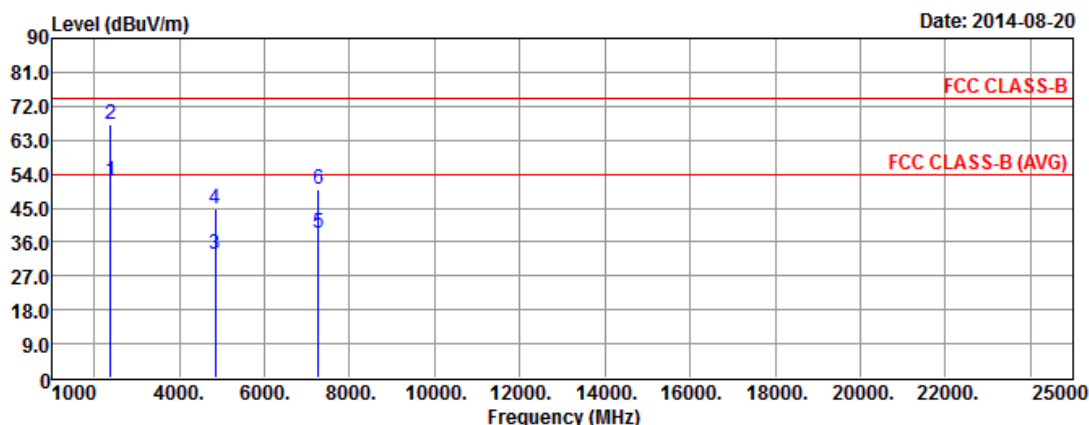
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 2422 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 52.01  | -1.99      | 54.00      | 55.69      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 67.22  | -6.78      | 74.00      | 70.90      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 4844.00 | 32.67  | -21.33     | 54.00      | 27.64      | 31.05          | 7.88       | 33.90        | ---   | ---   | Average |
| 4 | 4844.00 | 44.77  | -29.23     | 74.00      | 39.74      | 31.05          | 7.88       | 33.90        | ---   | ---   | Peak    |
| 5 | 7266.00 | 38.12  | -15.88     | 54.00      | 28.82      | 35.63          | 8.50       | 34.83        | ---   | ---   | Average |
| 6 | 7266.00 | 49.81  | -24.19     | 74.00      | 40.51      | 35.63          | 8.50       | 34.83        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

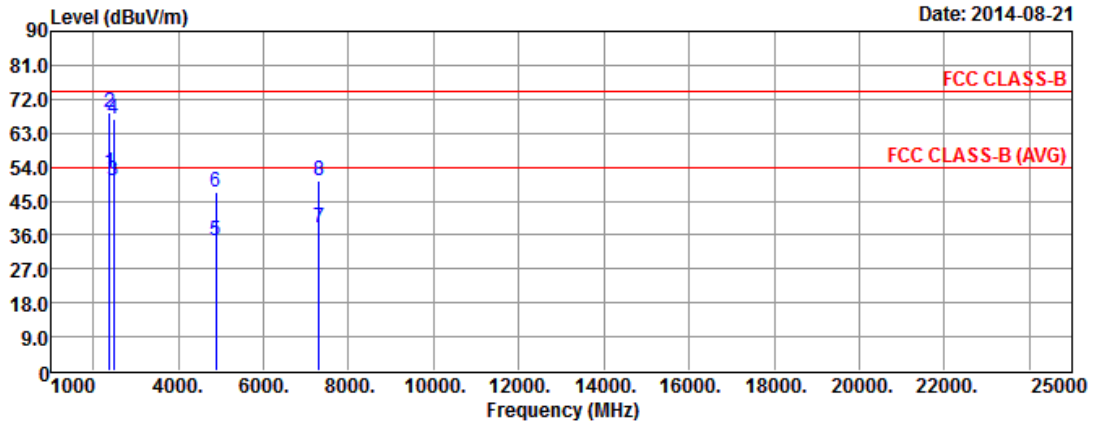
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 52.65  | -1.35      | 54.00      | 56.33      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 68.68  | -5.32      | 74.00      | 72.36      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 50.55  | -3.45      | 54.00      | 53.85      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 66.72  | -7.28      | 74.00      | 70.02      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 34.32  | -19.68     | 54.00      | 29.22      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 47.51  | -26.49     | 74.00      | 42.41      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 37.80  | -16.20     | 54.00      | 28.47      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 50.49  | -23.51     | 74.00      | 41.16      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

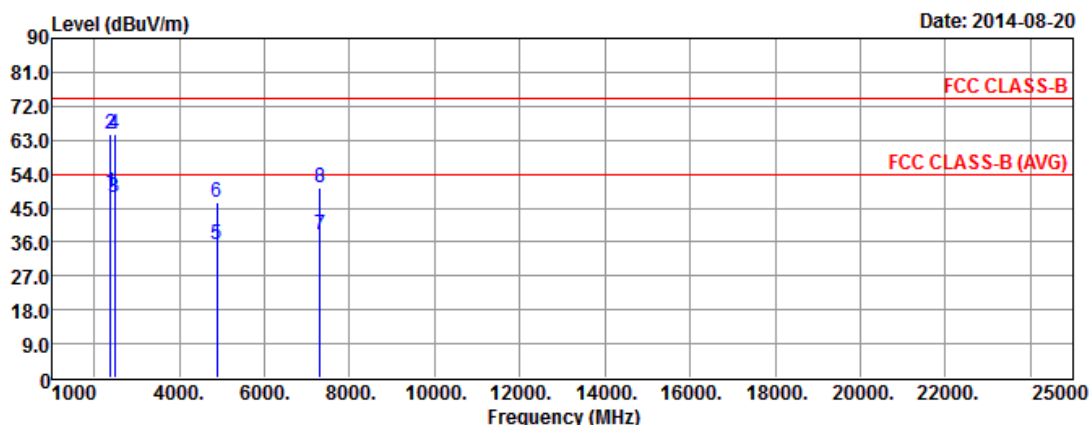
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 2437 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 49.24  | -4.76      | 54.00      | 52.92      | 26.64          | 4.51       | 34.83        | ---   | ---   | Average |
| 2 | 2390.00 | 64.58  | -9.42      | 74.00      | 68.26      | 26.64          | 4.51       | 34.83        | ---   | ---   | Peak    |
| 3 | 2483.50 | 47.63  | -6.37      | 54.00      | 50.93      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 4 | 2483.50 | 64.75  | -9.25      | 74.00      | 68.05      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 5 | 4874.00 | 35.25  | -18.75     | 54.00      | 30.15      | 31.10          | 7.89       | 33.89        | ---   | ---   | Average |
| 6 | 4874.00 | 46.30  | -27.70     | 74.00      | 41.20      | 31.10          | 7.89       | 33.89        | ---   | ---   | Peak    |
| 7 | 7311.00 | 37.69  | -16.31     | 54.00      | 28.36      | 35.72          | 8.48       | 34.87        | ---   | ---   | Average |
| 8 | 7311.00 | 50.28  | -23.72     | 74.00      | 40.95      | 35.72          | 8.48       | 34.87        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

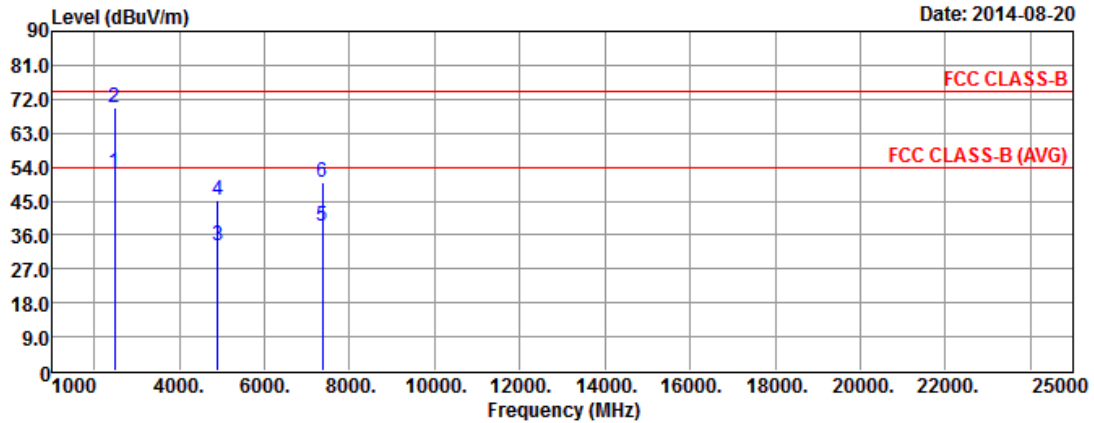
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 2452 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 52.65  | -1.35      | 54.00      | 55.95      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 69.55  | -4.45      | 74.00      | 72.85      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4904.00 | 33.28  | -20.72     | 54.00      | 28.12      | 31.15          | 7.89       | 33.88        | ---   | ---   | Average |
| 4 | 4904.00 | 45.26  | -28.74     | 74.00      | 40.10      | 31.15          | 7.89       | 33.88        | ---   | ---   | Peak    |
| 5 | 7356.00 | 38.16  | -15.84     | 54.00      | 28.80      | 35.81          | 8.45       | 34.90        | ---   | ---   | Average |
| 6 | 7356.00 | 49.84  | -24.16     | 74.00      | 40.48      | 35.81          | 8.45       | 34.90        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

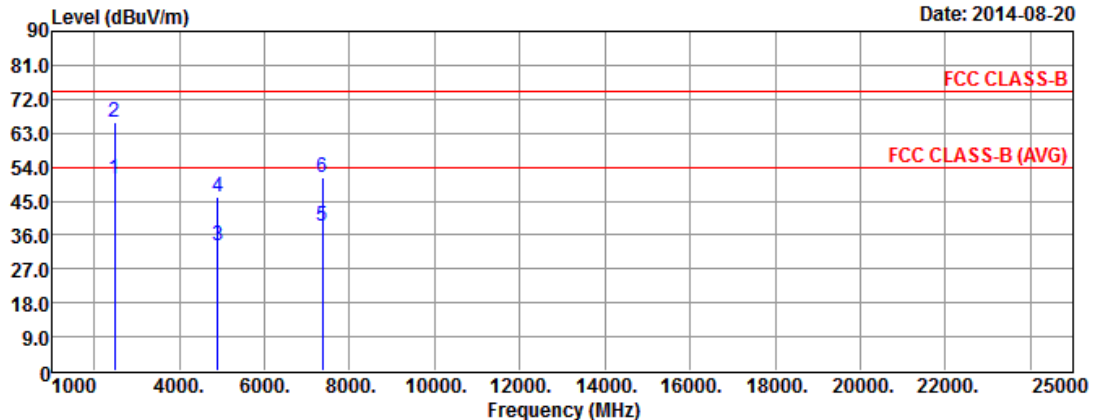
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 2452 |
| <b>N<sub>TX</sub></b>  | 2    | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2483.50 | 50.83  | -3.17      | 54.00      | 54.13      | 26.86          | 4.62       | 34.78        | ---   | ---   | Average |
| 2 | 2483.50 | 65.82  | -8.18      | 74.00      | 69.12      | 26.86          | 4.62       | 34.78        | ---   | ---   | Peak    |
| 3 | 4904.00 | 33.25  | -20.75     | 54.00      | 28.09      | 31.15          | 7.89       | 33.88        | ---   | ---   | Average |
| 4 | 4904.00 | 46.13  | -27.87     | 74.00      | 40.97      | 31.15          | 7.89       | 33.88        | ---   | ---   | Peak    |
| 5 | 7356.00 | 38.18  | -15.82     | 54.00      | 28.82      | 35.81          | 8.45       | 34.90        | ---   | ---   | Average |
| 6 | 7356.00 | 51.04  | -22.96     | 74.00      | 41.68      | 35.81          | 8.45       | 34.90        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

## 4 Test Equipment and Calibration Data

| Instrument    | Manufacturer   | Model No.      | Serial No.  | Characteristics | Calibration Date | Remark                |
|---------------|----------------|----------------|-------------|-----------------|------------------|-----------------------|
| Amplifier     | HP             | 8447D          | 2944A08033  | 10kHz ~ 1.3GHz  | May 05, 2014     | Radiation (03CH03-HY) |
| Amplifier     | Agilent        | 8449B          | 3008A02665  | 1GHz ~ 26.5GHz  | Sep. 04, 2013    | Radiation (03CH03-HY) |
| Spectrum      | R&S            | FSP40          | 100004      | 9kHz ~ 40GHz    | Mar. 27, 2014    | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER      | CBL 6112D      | 22237       | 30MHz ~ 1GHz    | Sep. 21, 2013    | Radiation (03CH03-HY) |
| Horn Antenna  | EMCO           | 3115           | 6741        | 1GHz ~ 18GHz    | Jun. 11, 2014    | Radiation (03CH03-HY) |
| Horn Antenna  | SCHWARZBECK    | BBHA9170       | BBHA9170154 | 15GHz ~ 40GHz   | Jan. 10, 2014    | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao        | RG142          | CB021       | 9kHz ~ 1GHz     | Nov. 16, 2013    | Radiation (03CH03-HY) |
| RF Cable-high | SUHNER         | SUCOFLEX 106   | 03CH03-HY   | 1GHz ~ 40GHz    | Dec. 11, 2013    | Radiation (03CH03-HY) |
| Turn Table    | EM Electronics | EM Electronics | 060615      | 0 ~ 360 degree  | N/A              | Radiation (03CH03-HY) |
| Antenna Mast  | MF             | MF-7802        | MF780208179 | 1 ~ 4 m         | N/A              | Radiation (03CH03-HY) |

Note: Calibration Interval of instruments listed above is one year.

| Instrument   | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark                |
|--------------|--------------|-----------|------------|-----------------|------------------|-----------------------|
| Amplifier    | EM           | EM18G40G  | 060604     | 18GHz ~ 40GHz   | Oct. 17.2013     | Radiation (03CH03-HY) |
| Loop Antenna | TESEQ        | HLA 6120  | 31244      | 9kHz ~ 30MHz    | Dec. 02, 2012    | Radiation (03CH03-HY) |

Note: Calibration Interval of instruments listed above is two year.

| Instrument                 | Manufacturer | Model No.        | Serial No.  | Characteristics | Calibration Date | Remark              |
|----------------------------|--------------|------------------|-------------|-----------------|------------------|---------------------|
| Spectrum Analyzer          | R&S          | FSV 40           | 101063      | 9KHz~40GHz      | Feb. 17, 2014    | Conducted (TH01-HY) |
| Spectrum Analyzer          | Agilent      | N9010A           | MY53400091  | 9KHz~44GHz      | Oct. 07, 2013    | Conducted (TH01-HY) |
| Temp. and Humidity Chamber | Giant Force  | GTH-225-20-SP-SD | MAA1112-007 | -20 ~ 100℃      | Nov. 21, 2013    | Conducted (TH01-HY) |
| Signal Generator           | R&S          | SMB100A          | 175727      | 10MHz ~ 40GHz   | Jan. 07, 2014    | Conducted (TH01-HY) |
| Power Sensor               | Anritsu      | MA2411B          | 1207366     | 300MHz ~ 40GHz  | Oct. 24, 2013    | Conducted (TH01-HY) |
| Power Meter                | Anritsu      | ML2495A          | 1241002     | 300MHz ~ 40GHz  | Oct. 24, 2013    | Conducted (TH01-HY) |
| AC Power Source            | G.W          | APS-9102         | EL920581    | AC 0V ~ 300V    | Jul. 15, 2014    | Conducted (TH01-HY) |

Note: Calibration Interval of instruments listed above is one year.



## FCC Test Report

Report No. : FR490525AC

| Instrument             | Manufacturer                   | Model No. | Serial No.     | Characteristics | Calibration Date | Remark               |
|------------------------|--------------------------------|-----------|----------------|-----------------|------------------|----------------------|
| EMC Receiver           | R&S                            | ESCS 30   | 100174         | 9kHz ~ 2.75GHz  | Mar. 26, 2014    | Conduction (CO04-HY) |
| LISN                   | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127 | 8127-477       | 9kHz ~ 30MHz    | Jan. 21, 2014    | Conduction (CO04-HY) |
| LISN<br>(Support Unit) | EMCO                           | 3810/2NM  | 9703-1839      | 9kHz ~ 30MHz    | Apr. 21, 2014    | Conduction (CO04-HY) |
| RF Cable-CON           | HUBER+SUHNER                   | RG213/U   | 07611832010012 | 9kHz ~ 30MHz    | Oct. 30, 2013    | Conduction (CO04-HY) |
| 50 ohm terminal        | N/A                            | N/A       | CON-01-04      | N/A             | Feb. 25, 2014    | Conduction (CO04-HY) |

Note: Calibration Interval of instruments listed above is one year.