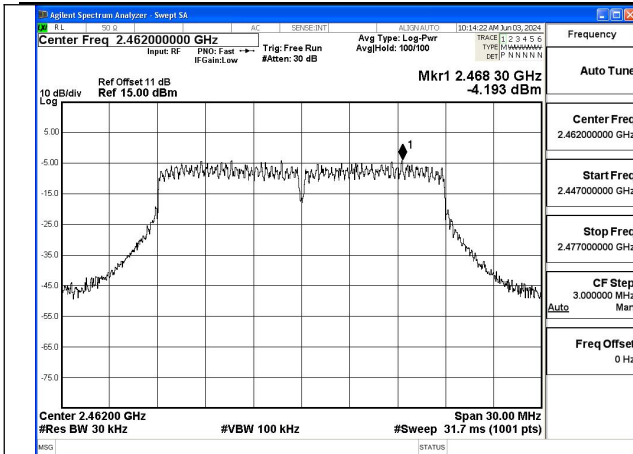
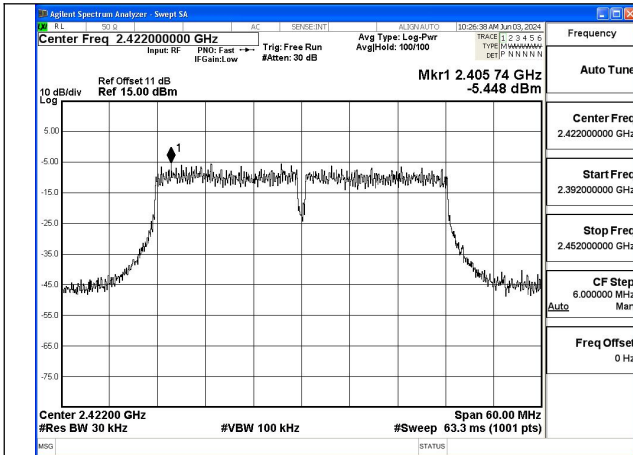


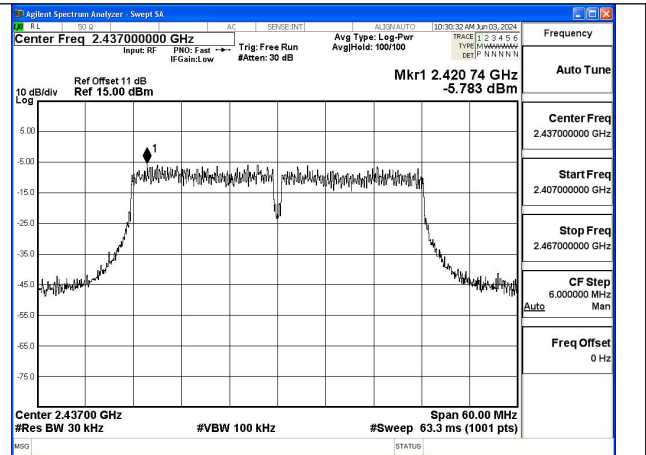


Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

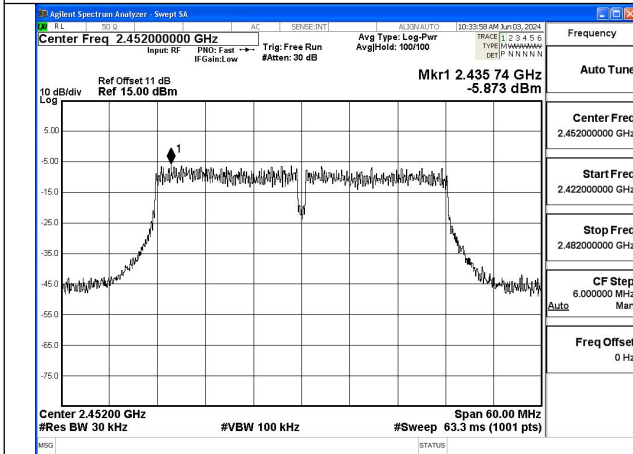
Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



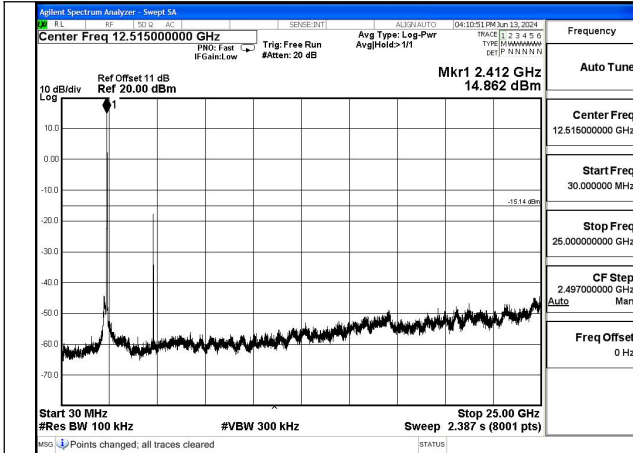
Mode:802.11n HT40 Frequency:2437MHz Ant:Chain0



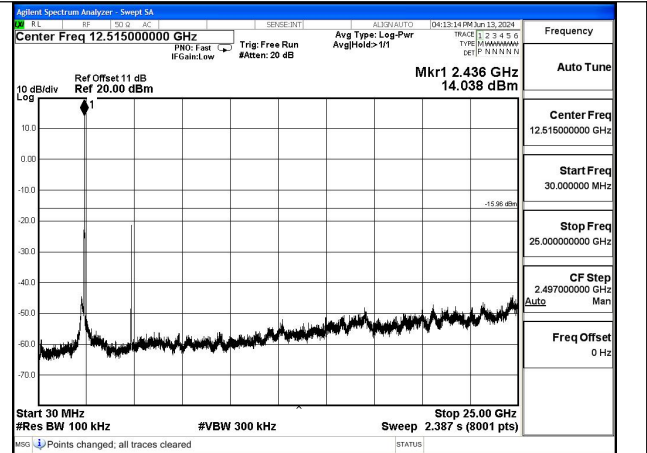
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0

## Conducted Out of band emission measurement

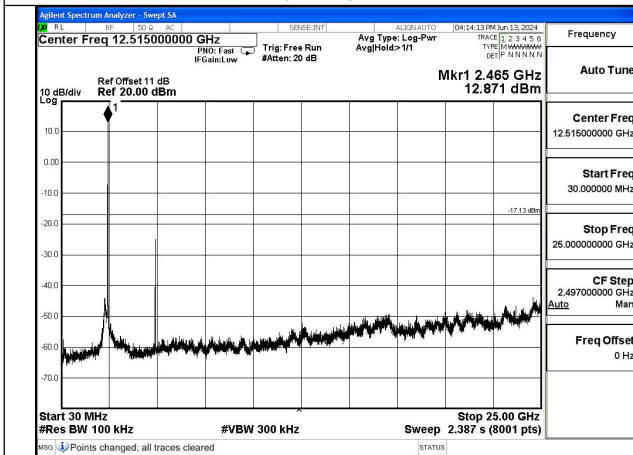
Test Mode: 802.11b



Mode:802.11b Frequency:2412MHz Ant:Chain0

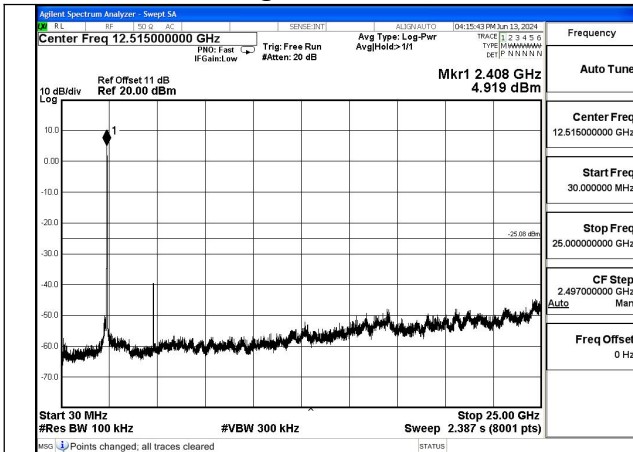


Mode:802.11b Frequency:2437MHz Ant:Chain0

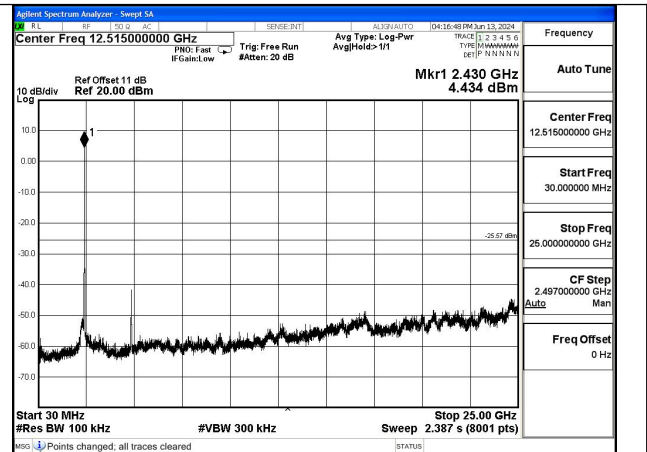


Mode:802.11b Frequency:2462MHz Ant:Chain0

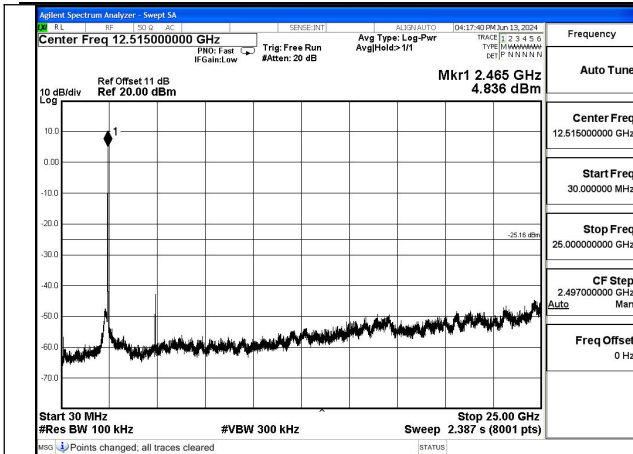
Test Mode: 802.11g



Mode:802.11g Frequency:2412MHz Ant:Chain0

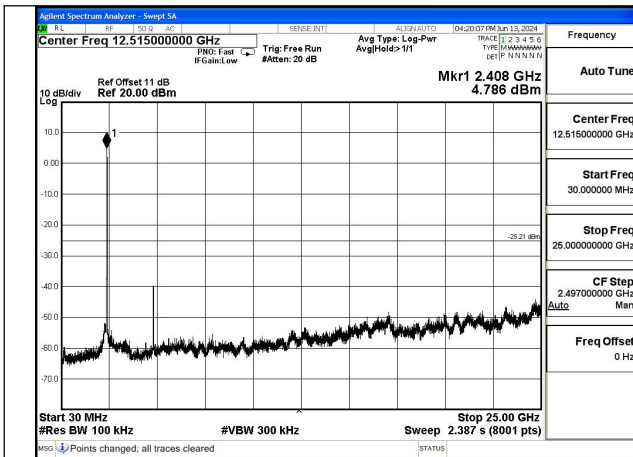


Mode:802.11g Frequency:2437MHz Ant:Chain0

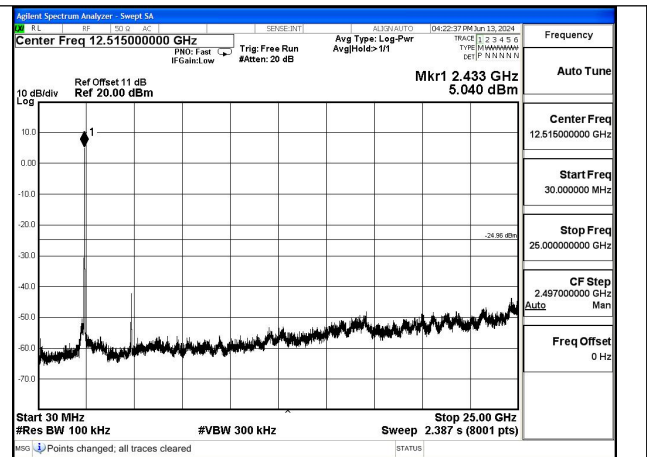


Mode:802.11g Frequency:2462MHz Ant:Chain0

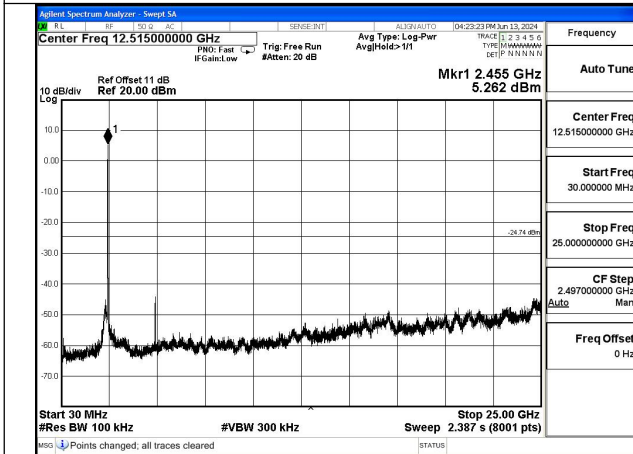
Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0

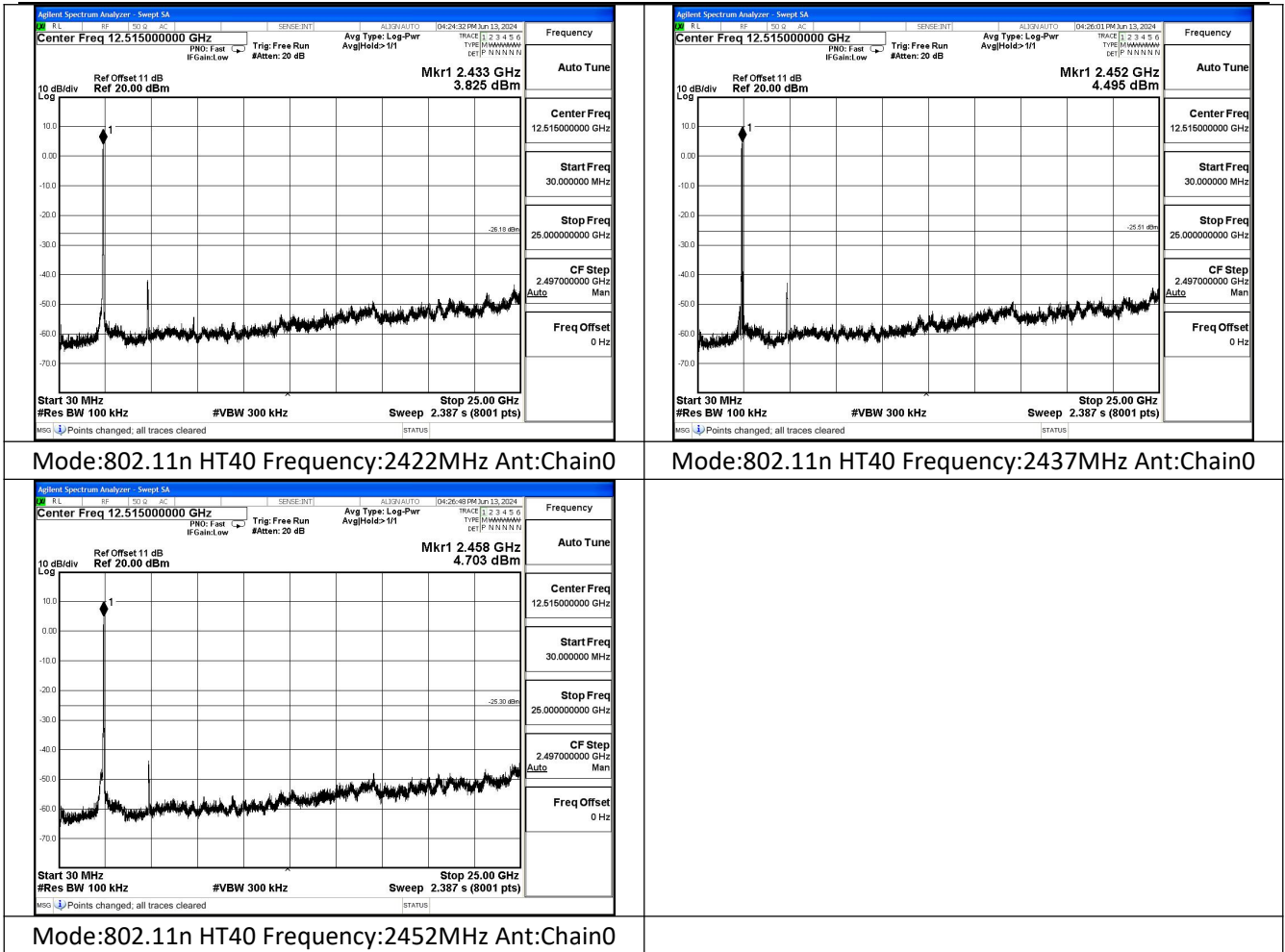


Mode:802.11n HT20 Frequency:2437MHz Ant:Chain0



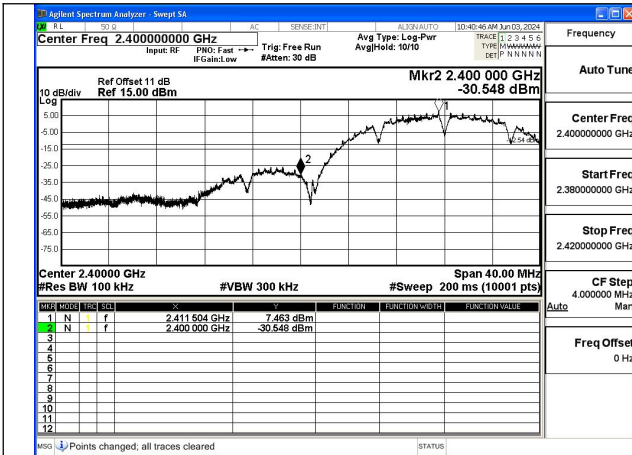
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

Test Mode: 802.11n HT40

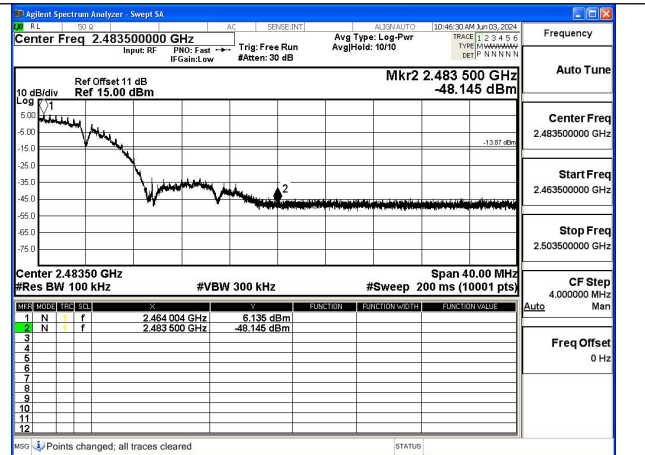


## Band edge measurement

Test Mode: 802.11b

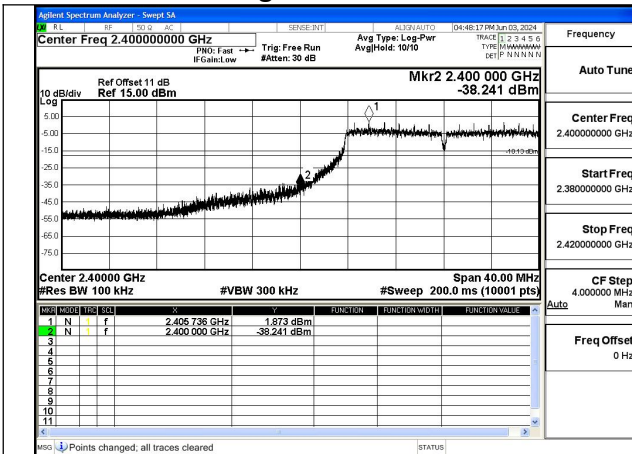


Mode:802.11b Frequency:2412MHz Ant:Chain0

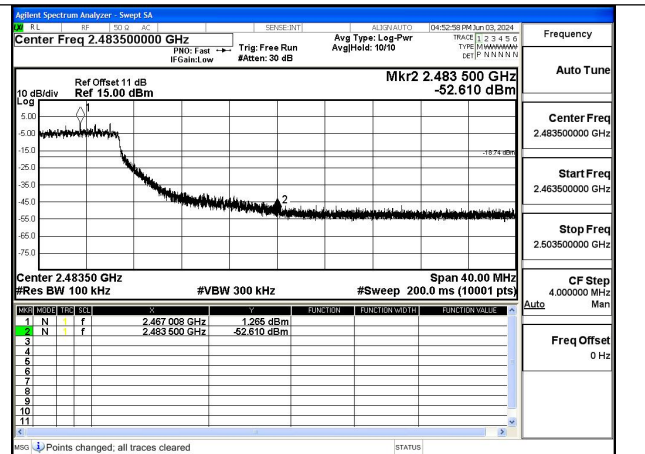


Mode:802.11b Frequency:2462MHz Ant:Chain0

Test Mode: 802.11g

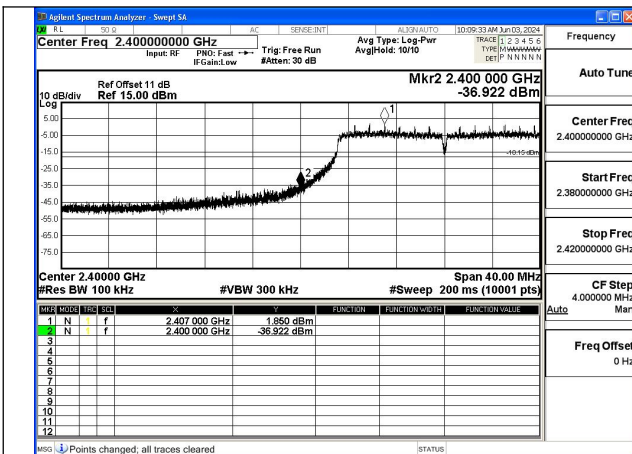


Mode:802.11g Frequency:2412MHz Ant:Chain0

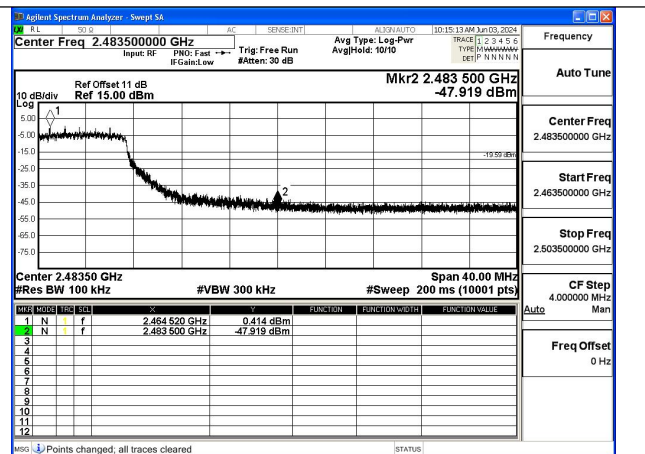


Mode:802.11g Frequency:2462MHz Ant:Chain0

Test Mode: 802.11n HT20

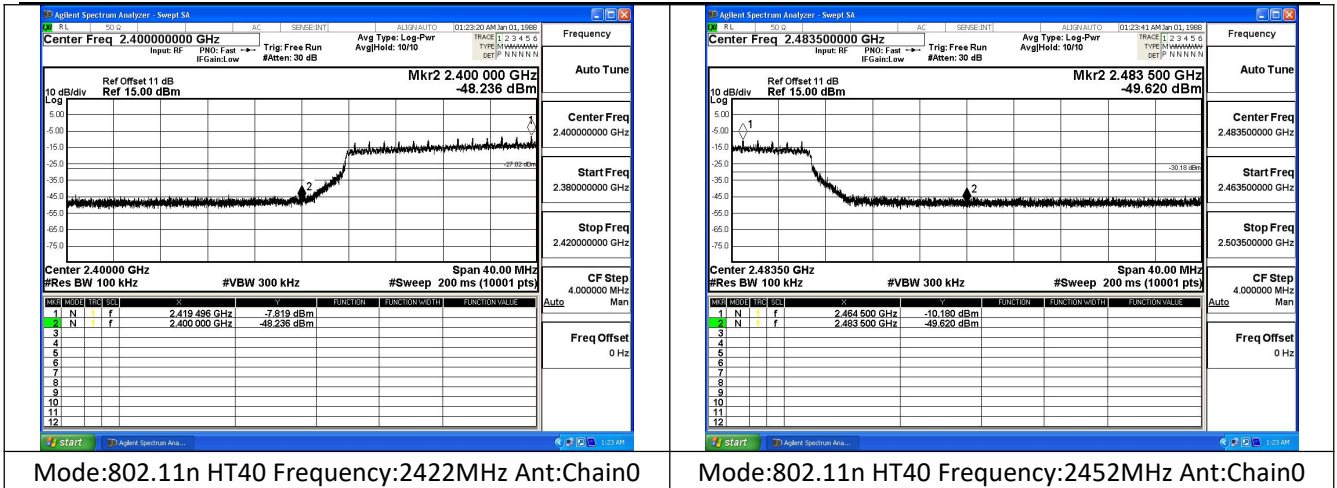


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

Test Mode: 802.11n HT40

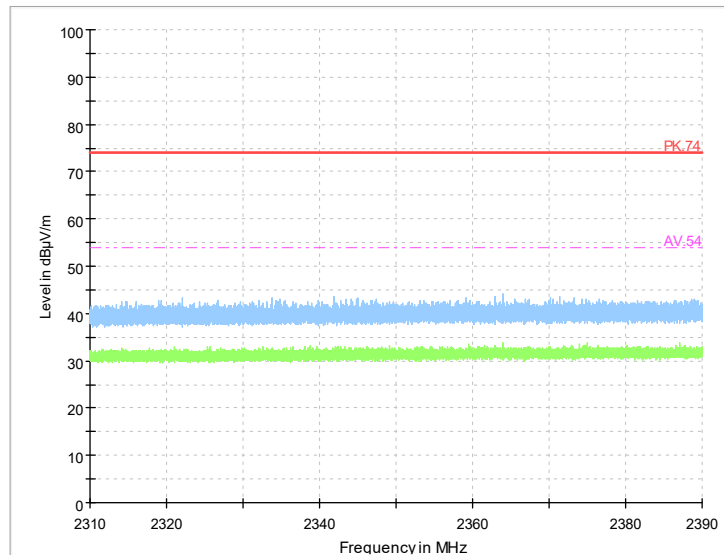


## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

Note: The worst channel results are reflected in the report.

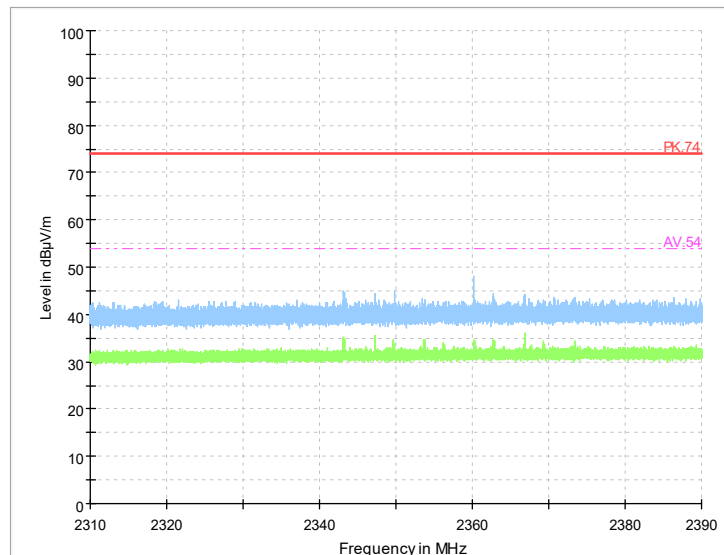
Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

### **Radiated Emission Band Edge**



### **Radiated Emission Band Edge**

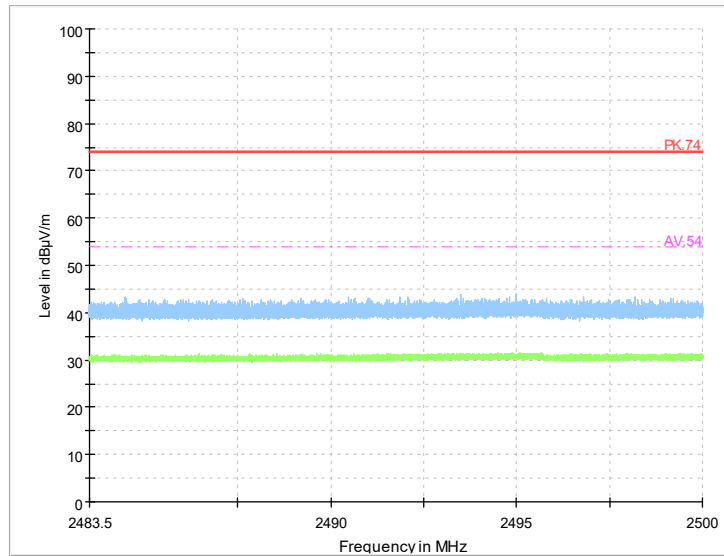
Channel No.:1  
Test Mode: 802.11b  
Polarization: V



### **Radiated Emission Band Edge**

Channel No.:1  
Test Mode: 802.11b

Polarization: H

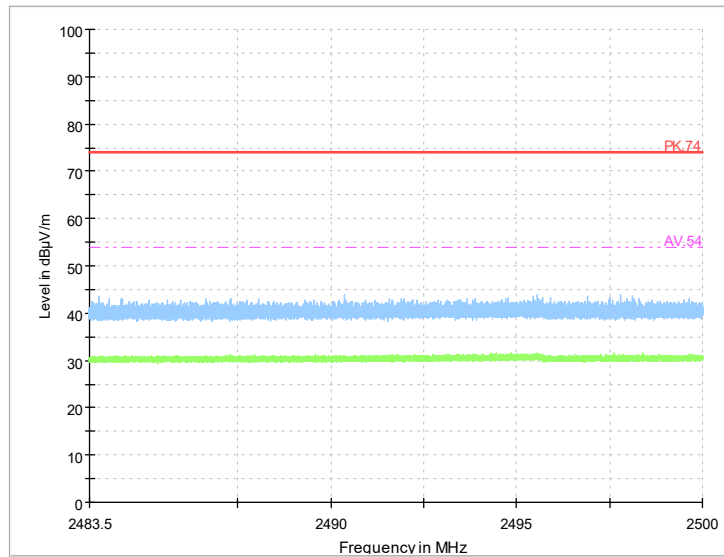


Radiated Emission Band Edge

Channel No.:11

Test Mode: 802.11b

Polarization: V

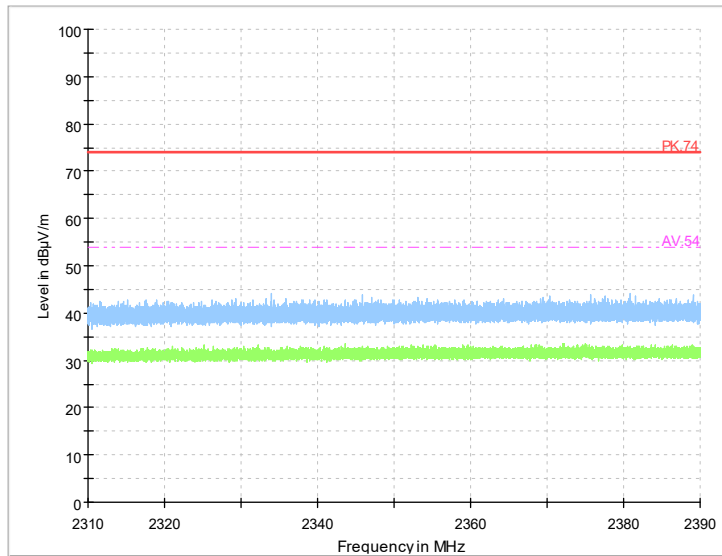


Radiated Emission Band Edge

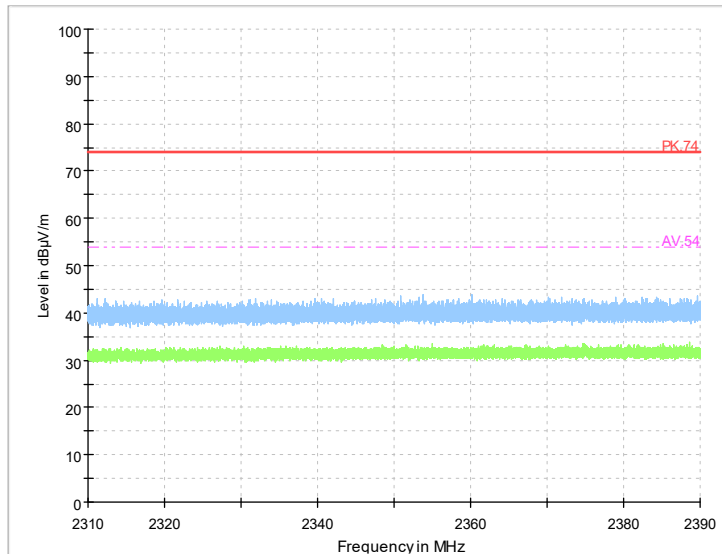
Channel No.:11

Test Mode: 802.11b

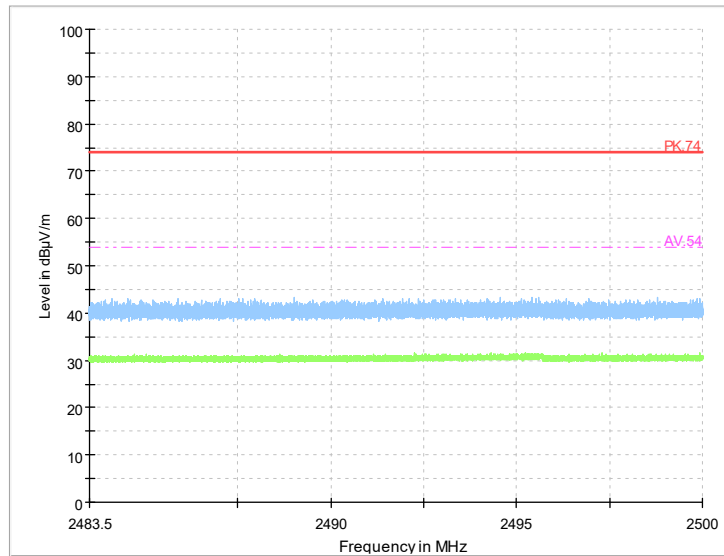
Polarization: H



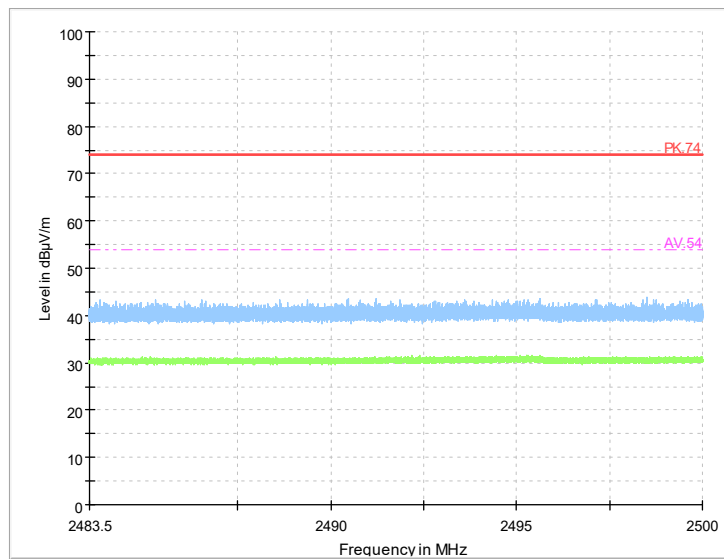
Radiated Emission Band Edge  
Channel No.:1  
Test Mode: 802.11g  
Polarization: V



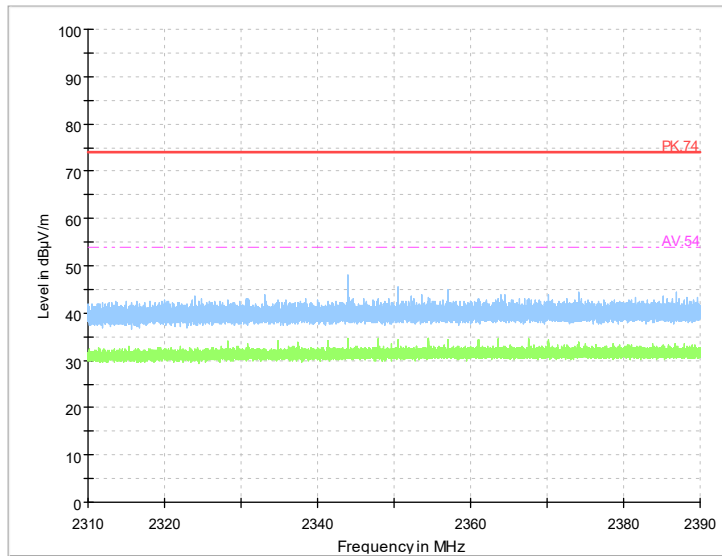
Radiated Emission Band Edge  
Channel No.:1  
Test Mode: 802.11g  
Polarization: H



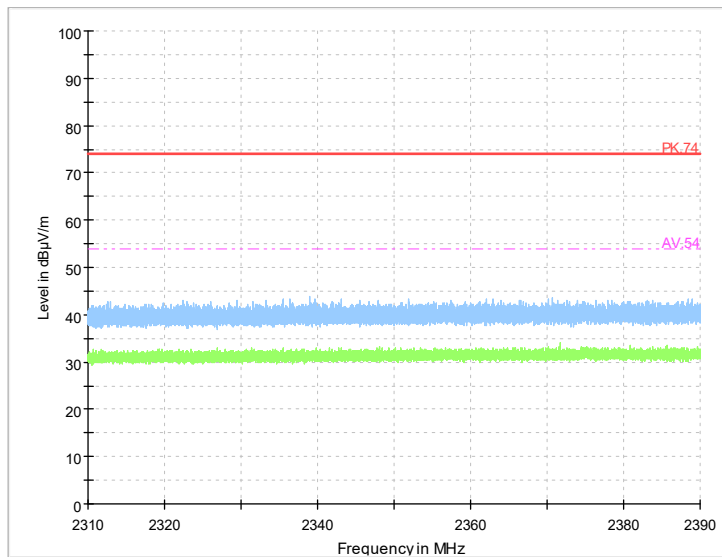
Radiated Emission Band Edge  
Channel No.:11  
Test Mode: 802.11g  
Polarization: V



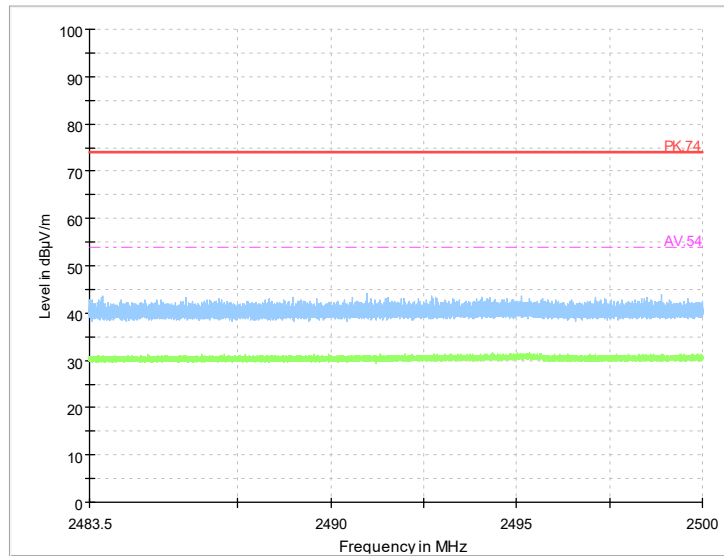
Radiated Emission Band Edge  
Channel No.:11  
Test Mode: 802.11g  
Polarization: H



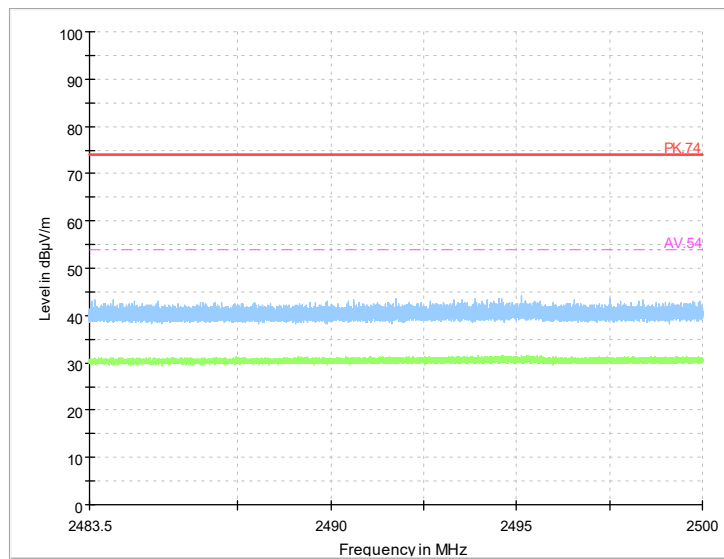
Radiated Emission Band Edge  
Channel No.:1  
Test Mode: 802.11n  
Polarization: V



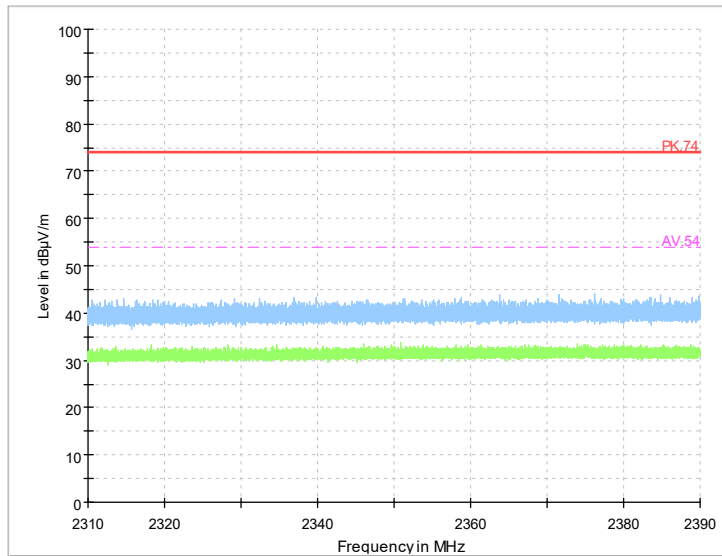
Radiated Emission Band Edge  
Channel No.:1  
Test Mode: 802.11n  
Polarization: H



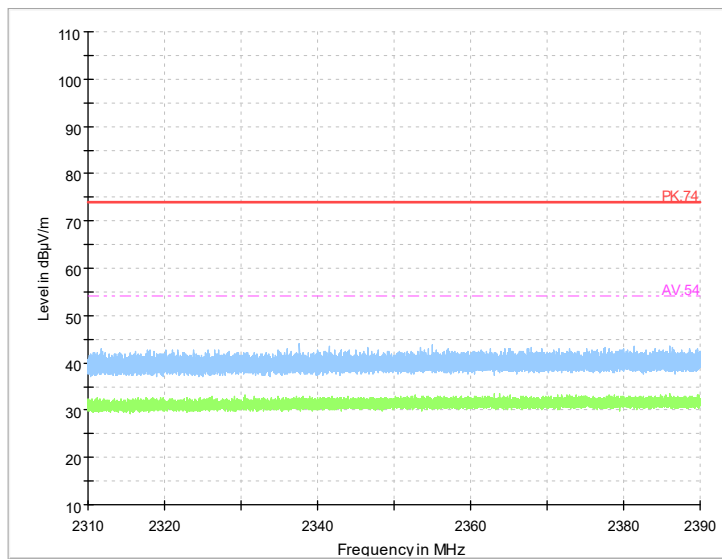
Radiated Emission Band Edge  
Channel No.:11  
Test Mode: 802.11n  
Polarization: V



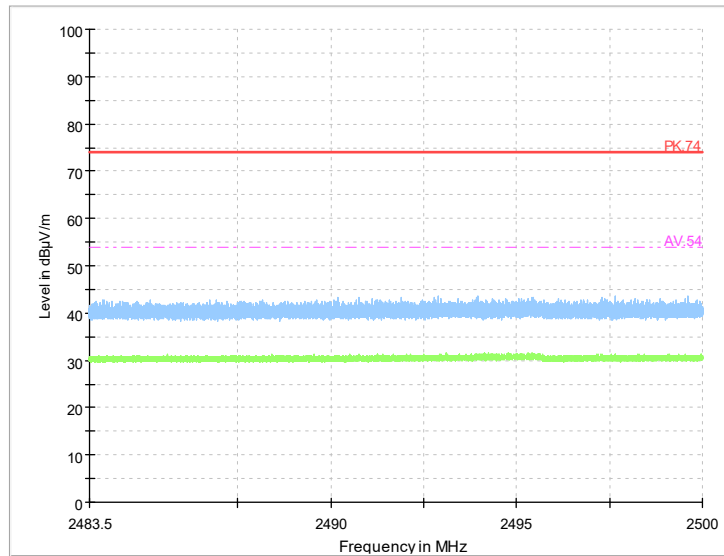
Radiated Emission Band Edge  
Channel No.:11  
Test Mode: 802.11n  
Polarization: H



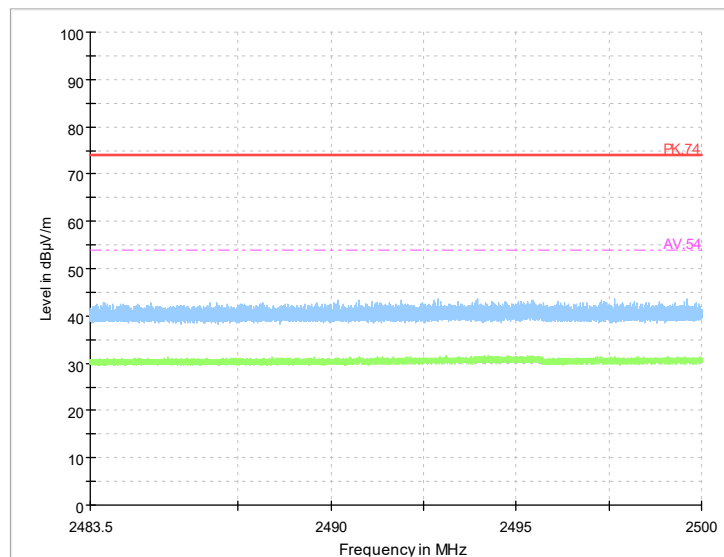
Radiated Emission Band Edge  
Channel No.:3  
Test Mode: 802.11n40  
Polarization: V



Radiated Emission Band Edge  
Channel No.:3  
Test Mode: 802.11n40  
Polarization: H



Radiated Emission Band Edge  
Channel No.:9  
Test Mode: 802.11n40  
Polarization: V



Radiated Emission Band Edge  
Channel No.:9  
Test Mode: 802.11n40  
Polarization: H

## Sample Calculations

After comparison, the worst case attitude is EUT lay down.  
Determining Spurious Emissions Levels

A “reference path loss” is established and the  $A_{Rpl}$  is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result =  $P_{mea} + A_{Rpl}$

Sample calculation:  $(50.86 \text{ dB}\mu\text{V/m}) = (24.86 \text{ dB}\mu\text{V}) - (-26 \text{ dB})$ ,

For 802.11b Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 118.773000     | 24.86          | -26       | 50.86         | Vertical   | 33.50          | 8.64        |
| 120.616000     | 26.13          | -27       | 53.13         | Vertical   | 33.50          | 7.37        |
| 120.677000     | 25.89          | -27       | 52.89         | Vertical   | 33.50          | 7.61        |
| 123.155000     | 24.74          | -27       | 51.74         | Vertical   | 33.50          | 8.76        |
| 374.996667     | 29.51          | -18       | 47.51         | Horizontal | 36.00          | 6.49        |
| 499.997333     | 29.50          | -15       | 44.50         | Horizontal | 36.00          | 6.50        |

For 802.11g Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 118.773000     | 24.95          | -26       | 50.95         | Vertical   | 33.50          | 8.55        |
| 120.813333     | 25.80          | -27       | 52.80         | Vertical   | 33.50          | 7.70        |
| 120.829333     | 25.90          | -27       | 52.90         | Vertical   | 33.50          | 7.60        |
| 123.334333     | 24.46          | -27       | 51.46         | Vertical   | 33.50          | 9.04        |
| 374.996667     | 29.28          | -18       | 47.28         | Horizontal | 36.00          | 6.72        |
| 499.997333     | 29.88          | -15       | 44.88         | Horizontal | 36.00          | 6.12        |

For 802.11n(HT20) Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.698333     | 24.22          | -27       | 51.22         | Vertical   | 33.50          | 9.28        |
| 120.714667     | 23.89          | -27       | 50.89         | Vertical   | 33.50          | 9.61        |
| 123.554000     | 23.16          | -27       | 50.16         | Vertical   | 33.50          | 10.34       |
| 124.995333     | 27.69          | -27       | 54.69         | Vertical   | 33.50          | 5.81        |
| 374.996667     | 30.87          | -18       | 48.87         | Vertical   | 36.00          | 5.13        |
| 499.997333     | 33.01          | -15       | 48.01         | Horizontal | 36.00          | 2.99        |

For 802.11b Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|----------|----------------|-------------|
| 118.384000     | 24.84          | -26       | 50.84         | Vertical | 33.50          | 8.66        |

|            |       |     |       |            |       |      |
|------------|-------|-----|-------|------------|-------|------|
| 120.034000 | 25.61 | -27 | 52.61 | Vertical   | 33.50 | 7.89 |
| 120.693333 | 25.85 | -27 | 52.85 | Vertical   | 33.50 | 7.65 |
| 123.190667 | 24.36 | -27 | 51.36 | Vertical   | 33.50 | 9.14 |
| 374.996667 | 30.10 | -18 | 48.10 | Vertical   | 36.00 | 5.90 |
| 499.997333 | 29.54 | -15 | 44.54 | Horizontal | 36.00 | 6.46 |

For 802.11g Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.195667     | 25.63          | -27       | 52.63         | Vertical   | 33.50          | 7.87        |
| 120.556333     | 26.17          | -27       | 53.17         | Vertical   | 33.50          | 7.33        |
| 120.968000     | 25.72          | -27       | 52.72         | Vertical   | 33.50          | 7.78        |
| 249.996000     | 25.90          | -22       | 47.90         | Vertical   | 36.00          | 10.10       |
| 374.996667     | 30.01          | -18       | 48.01         | Vertical   | 36.00          | 5.99        |
| 499.997333     | 29.92          | -15       | 44.92         | Horizontal | 36.00          | 6.08        |

For 802.11n(HT20) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.666000     | 23.60          | -27       | 50.60         | Vertical   | 33.50          | 9.90        |
| 120.935667     | 23.60          | -27       | 50.60         | Vertical   | 33.50          | 9.90        |
| 123.098000     | 22.34          | -27       | 49.34         | Vertical   | 33.50          | 11.16       |
| 125.003000     | 27.45          | -27       | 54.45         | Vertical   | 33.50          | 6.05        |
| 374.996667     | 30.83          | -18       | 48.83         | Vertical   | 36.00          | 5.17        |
| 499.997333     | 32.96          | -15       | 47.96         | Horizontal | 36.00          | 3.04        |

For 802.11b Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.687333     | 25.94          | -27       | 52.94         | Vertical   | 33.50          | 7.56        |
| 120.838667     | 25.29          | -27       | 52.29         | Vertical   | 33.50          | 8.21        |
| 123.366667     | 24.87          | -27       | 51.87         | Vertical   | 33.50          | 8.63        |
| 123.493667     | 25.07          | -27       | 52.07         | Vertical   | 33.50          | 8.43        |
| 374.996667     | 29.75          | -18       | 47.75         | Vertical   | 36.00          | 6.25        |
| 499.997333     | 29.01          | -15       | 44.01         | Horizontal | 36.00          | 6.99        |

For 802.11g Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 118.424000     | 25.22          | -26       | 51.22         | Vertical   | 33.50          | 8.28        |
| 120.645667     | 26.12          | -27       | 53.12         | Vertical   | 33.50          | 7.38        |
| 123.518333     | 25.12          | -27       | 52.12         | Vertical   | 33.50          | 8.38        |
| 249.996000     | 26.01          | -22       | 48.01         | Vertical   | 36.00          | 9.99        |
| 374.996667     | 29.89          | -18       | 47.89         | Vertical   | 36.00          | 6.11        |
| 499.997333     | 30.18          | -15       | 45.18         | Horizontal | 36.00          | 5.82        |

For 802.11n(HT20) Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 123.580333     | 23.75          | -27       | 50.75         | Vertical   | 33.50          | 9.75        |
| 124.995333     | 28.23          | -27       | 55.23         | Vertical   | 33.50          | 5.27        |
| 249.996000     | 26.45          | -22       | 48.45         | Vertical   | 36.00          | 9.55        |
| 374.996667     | 29.97          | -18       | 47.97         | Vertical   | 36.00          | 6.03        |
| 499.997333     | 32.64          | -15       | 47.64         | Horizontal | 36.00          | 3.36        |
| 933.481000     | 21.61          | -8        | 29.61         | Horizontal | 36.00          | 14.39       |

For 802.11n(HT40) Channel No.:3

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.788667     | 23.61          | -27       | 50.61         | Vertical   | 33.50          | 9.89        |
| 124.995333     | 26.26          | -27       | 53.26         | Vertical   | 33.50          | 7.24        |
| 249.996000     | 25.70          | -22       | 47.70         | Vertical   | 36.00          | 10.30       |
| 374.996667     | 30.78          | -18       | 48.78         | Vertical   | 36.00          | 5.22        |
| 499.997333     | 32.99          | -15       | 47.99         | Horizontal | 36.00          | 3.01        |
| 957.207667     | 21.83          | -7        | 28.83         | Horizontal | 36.00          | 14.17       |

For 802.11n(HT40) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity   | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|------------|----------------|-------------|
| 120.702667     | 23.32          | -27       | 50.32         | Vertical   | 33.50          | 10.18       |
| 121.202000     | 23.03          | -27       | 50.03         | Vertical   | 33.50          | 10.47       |
| 123.461333     | 22.83          | -27       | 49.83         | Vertical   | 33.50          | 10.67       |
| 124.995333     | 27.55          | -27       | 54.55         | Vertical   | 33.50          | 5.95        |
| 374.996667     | 30.81          | -18       | 48.81         | Vertical   | 36.00          | 5.19        |
| 499.997333     | 33.14          | -15       | 48.14         | Horizontal | 36.00          | 2.86        |

For 802.11n(HT40) Channel No.:9

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|----------------|----------------|-----------|---------------|----------|----------------|-------------|
|----------------|----------------|-----------|---------------|----------|----------------|-------------|