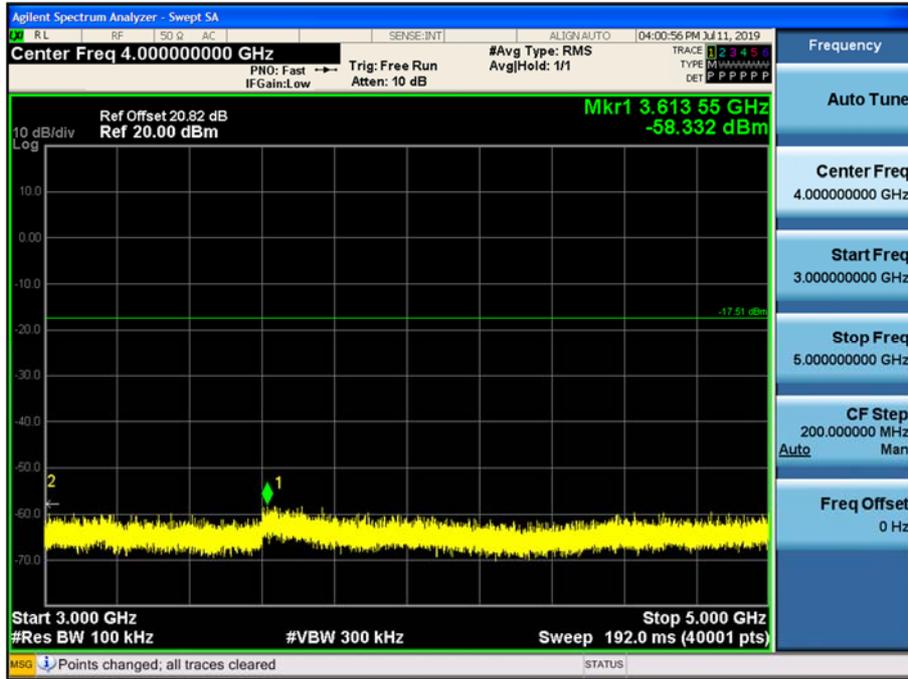


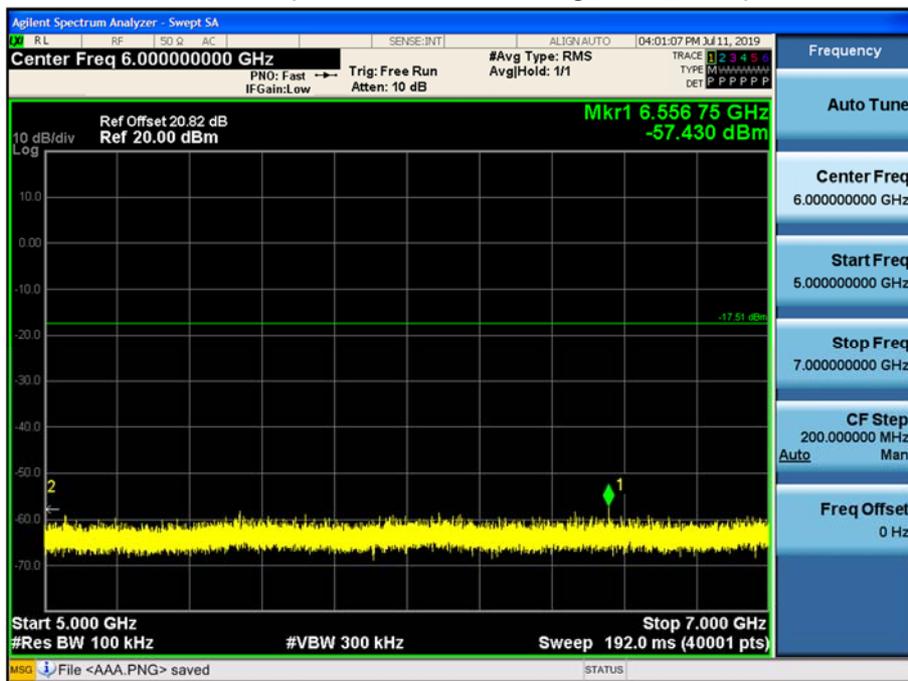
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



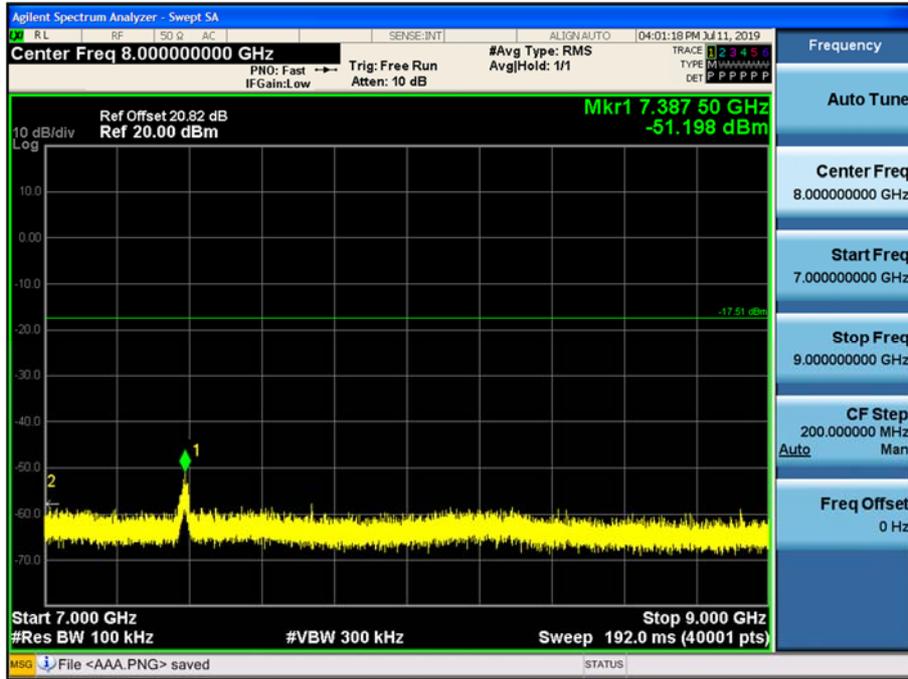
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



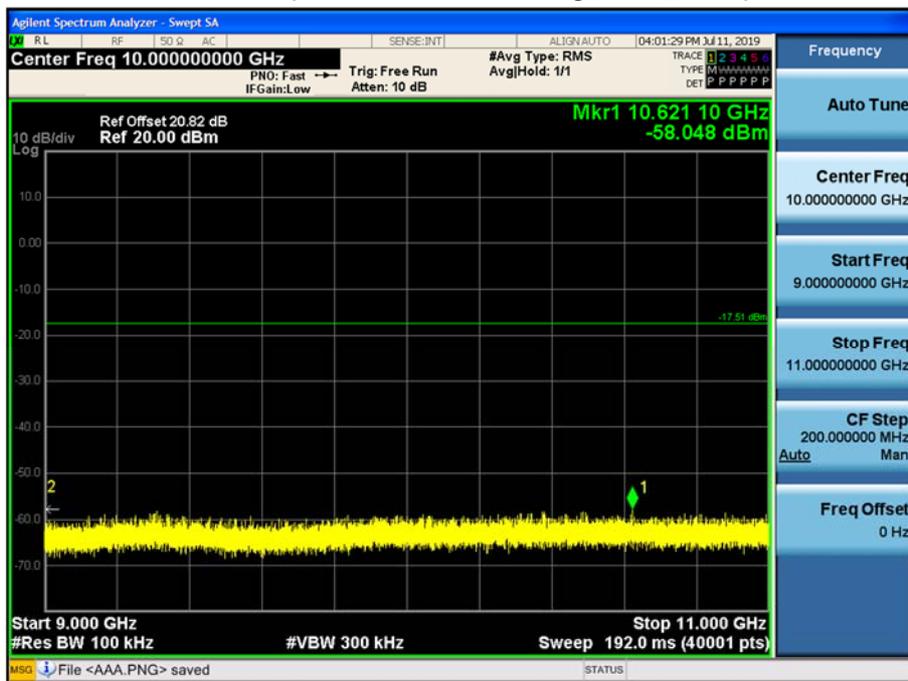
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



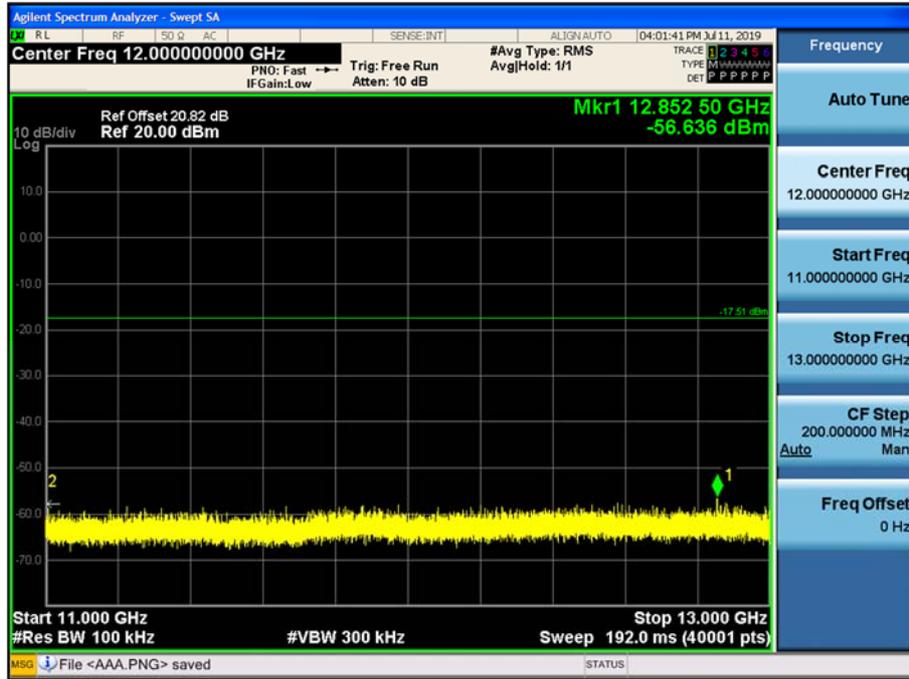
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



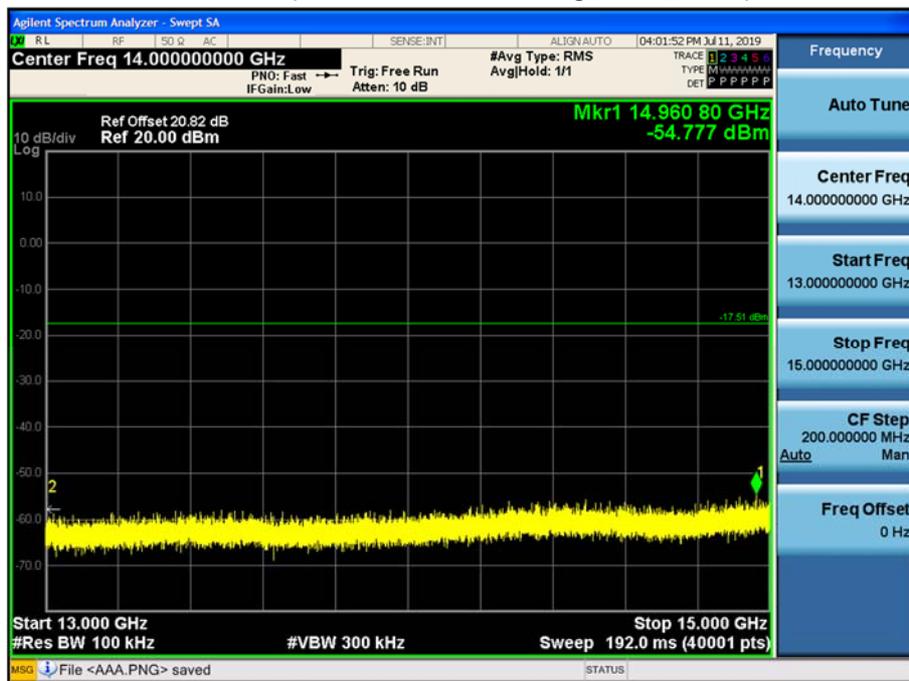
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



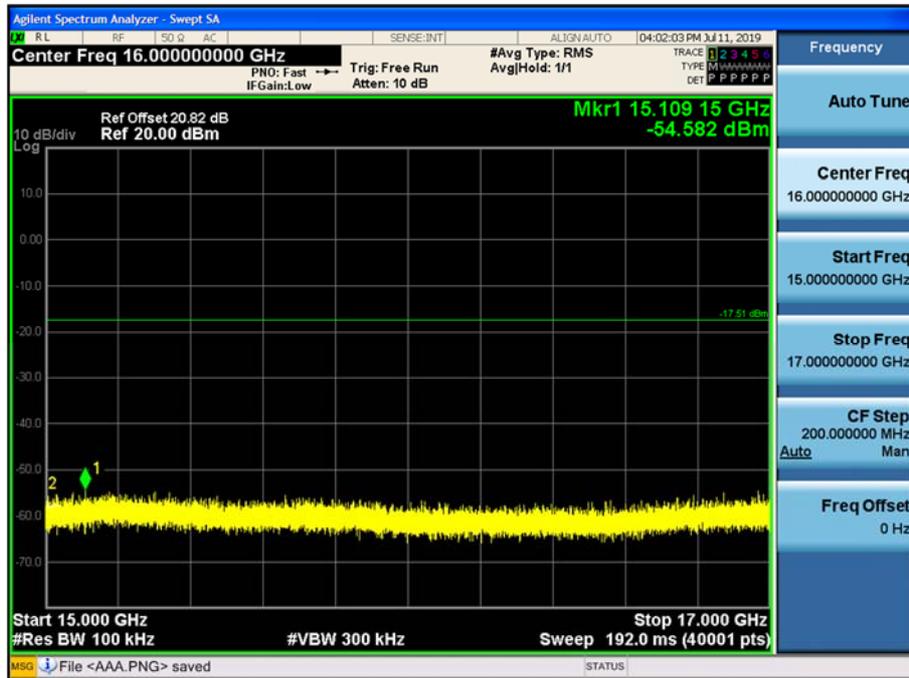
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



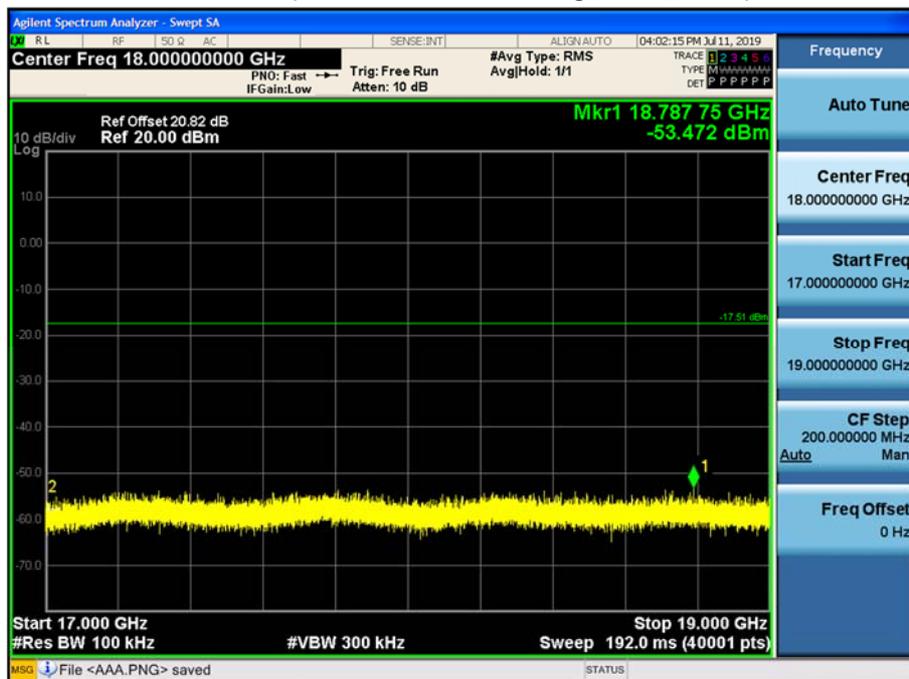
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



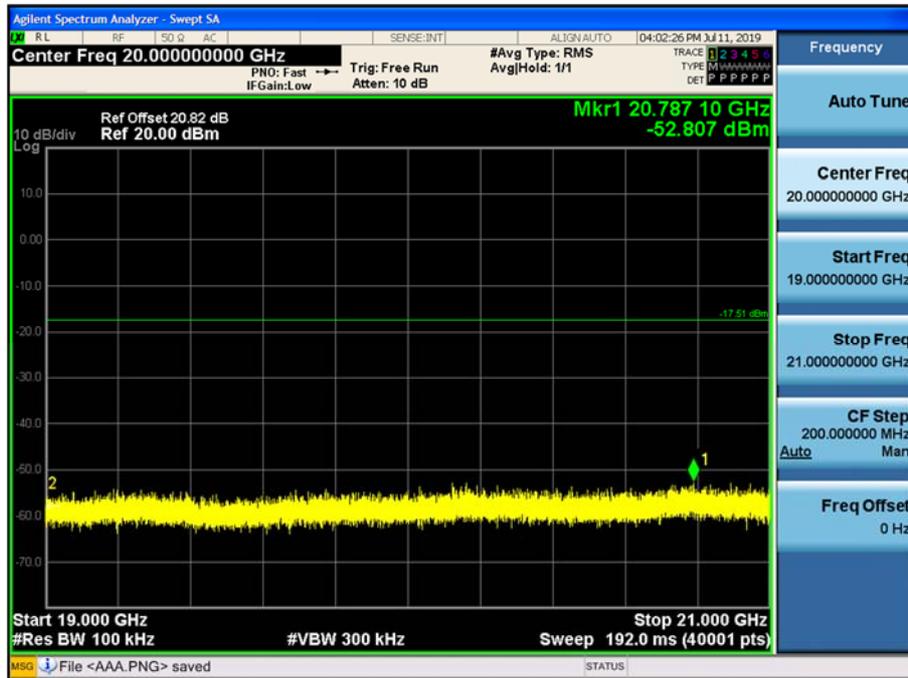
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



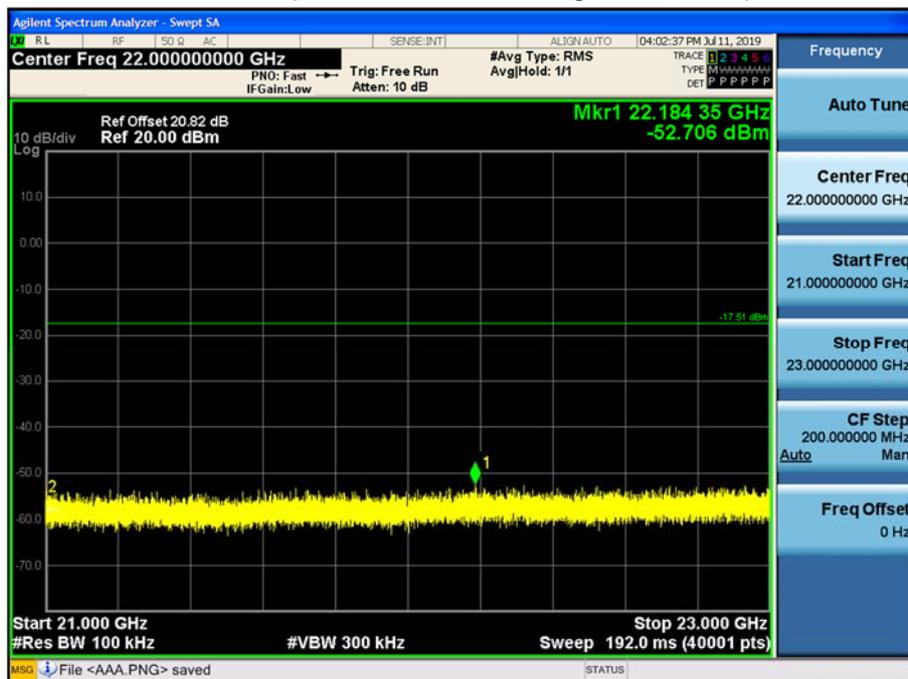
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



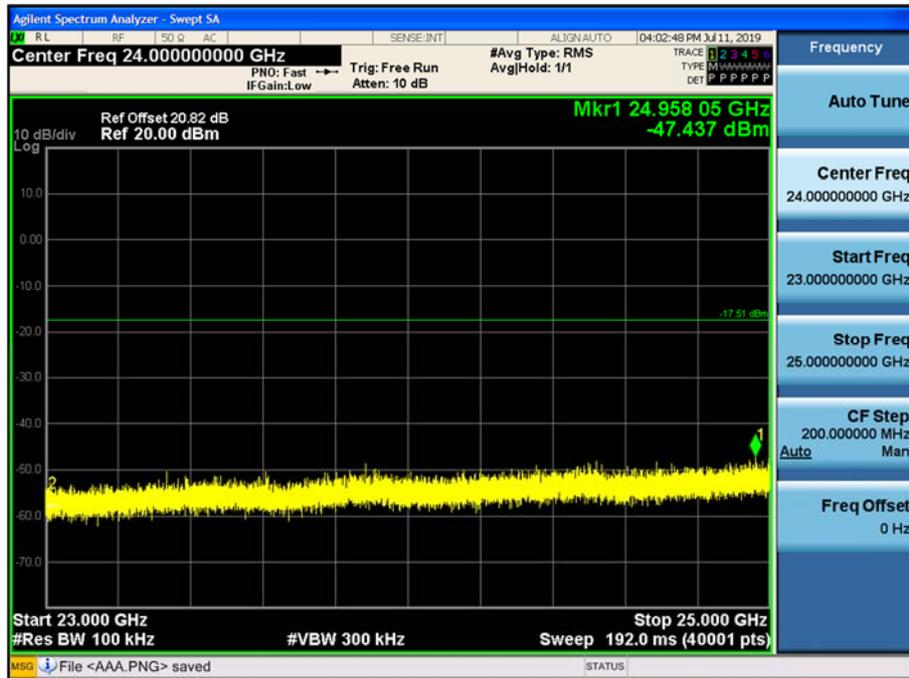
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



23 GHz ~ 25 GHz

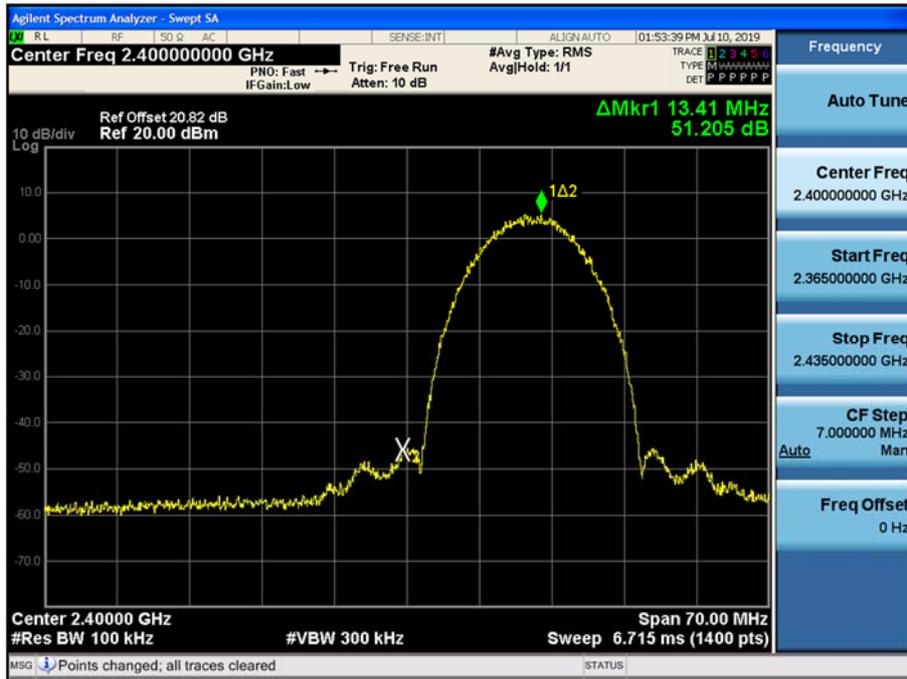
Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



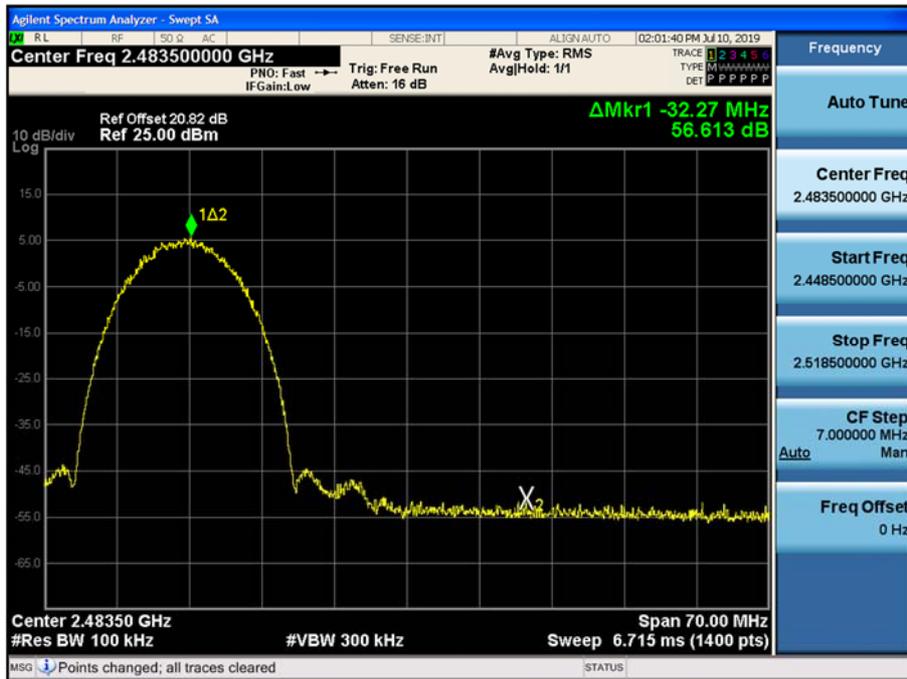
[ANT2]

☐ Test Plots(BandEdge)

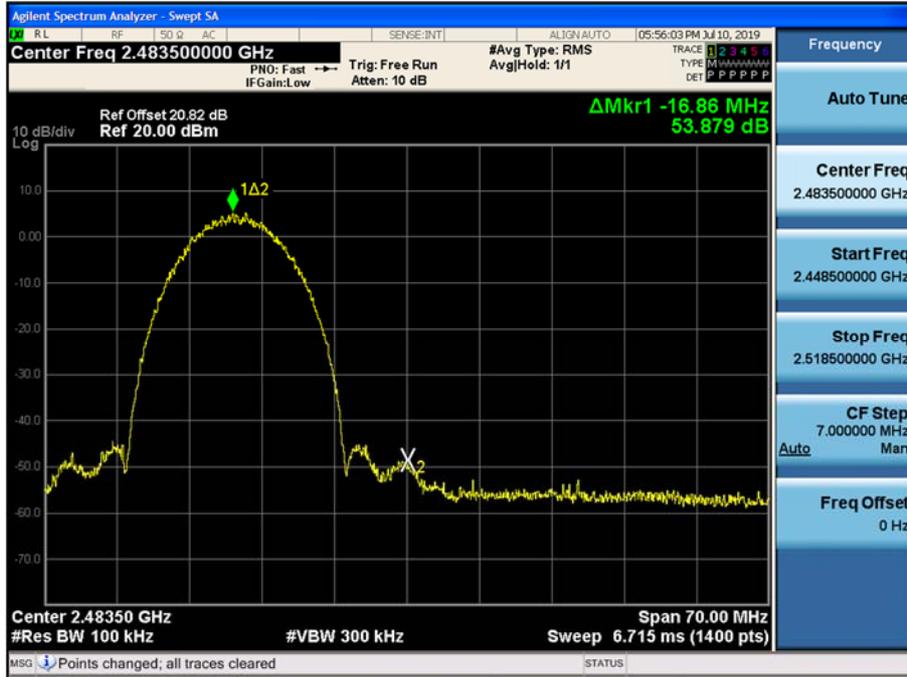
Band Edge (802.11b-CH1)



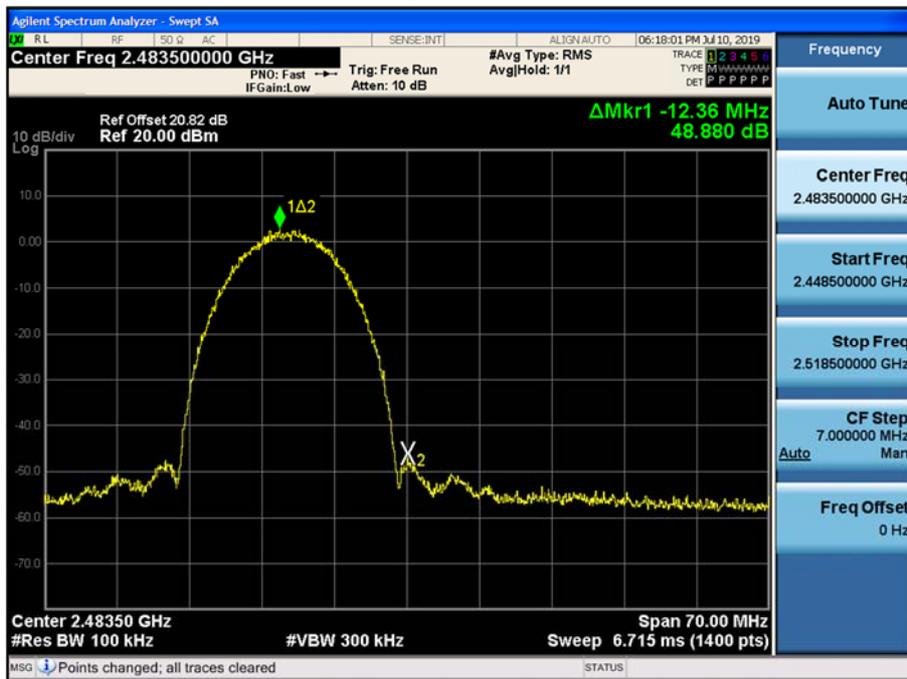
Band Edge (802.11b-CH11)



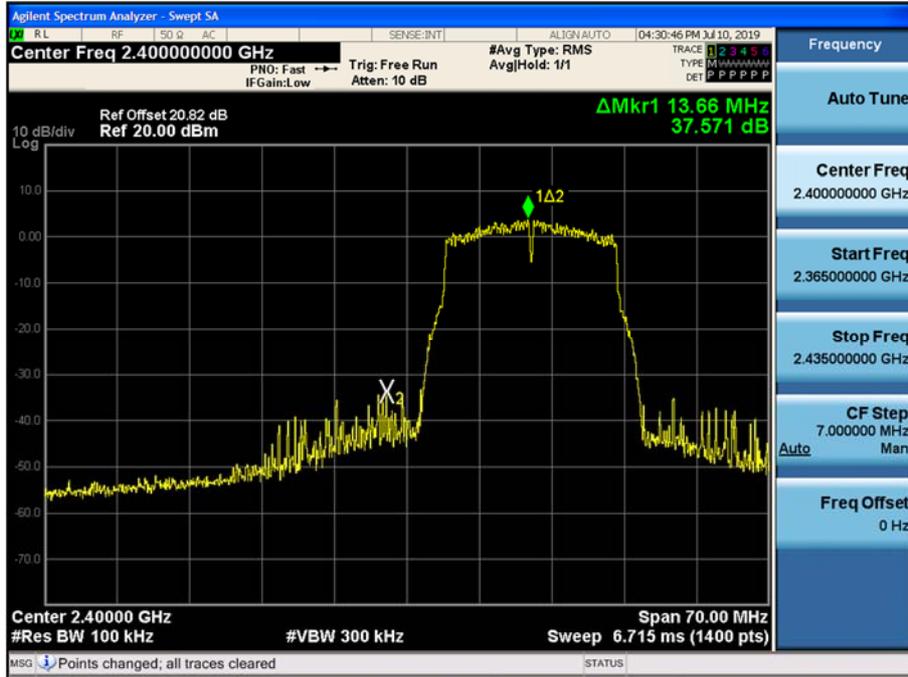
Band Edge (802.11b-CH12)



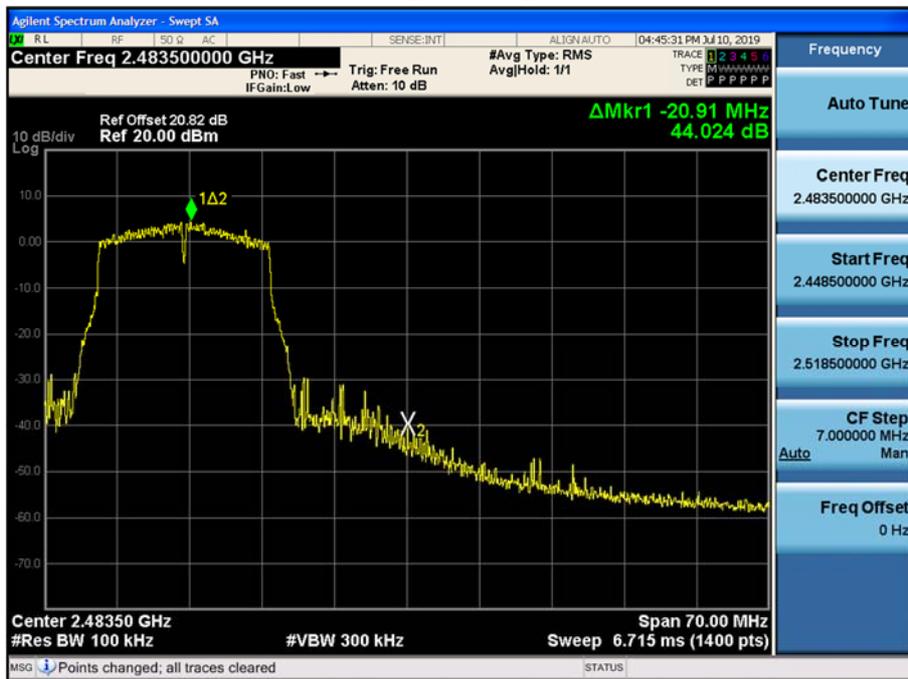
Band Edge (802.11b-CH13)



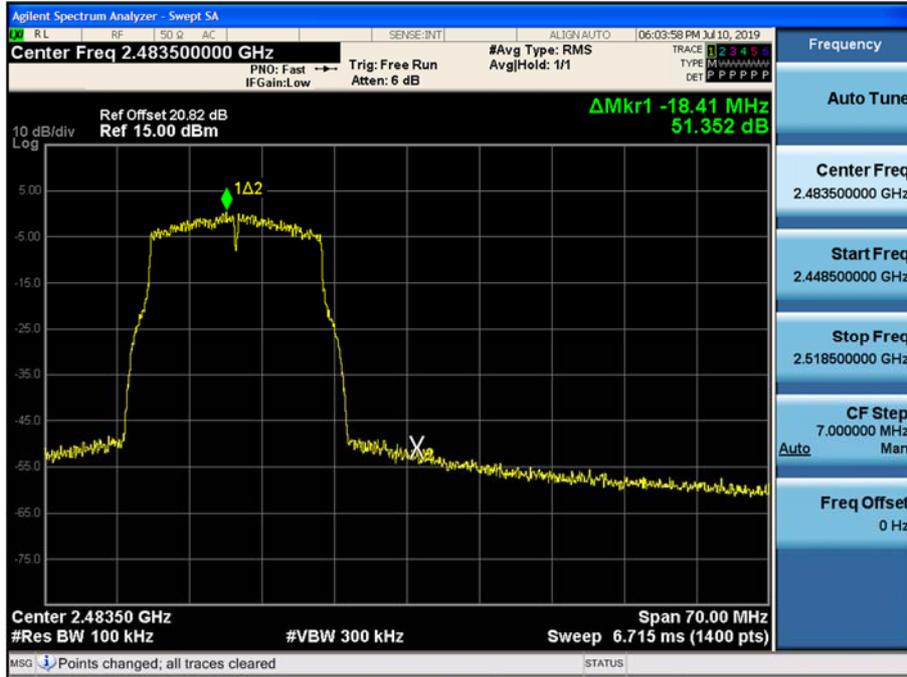
Band Edge (802.11g-CH1)



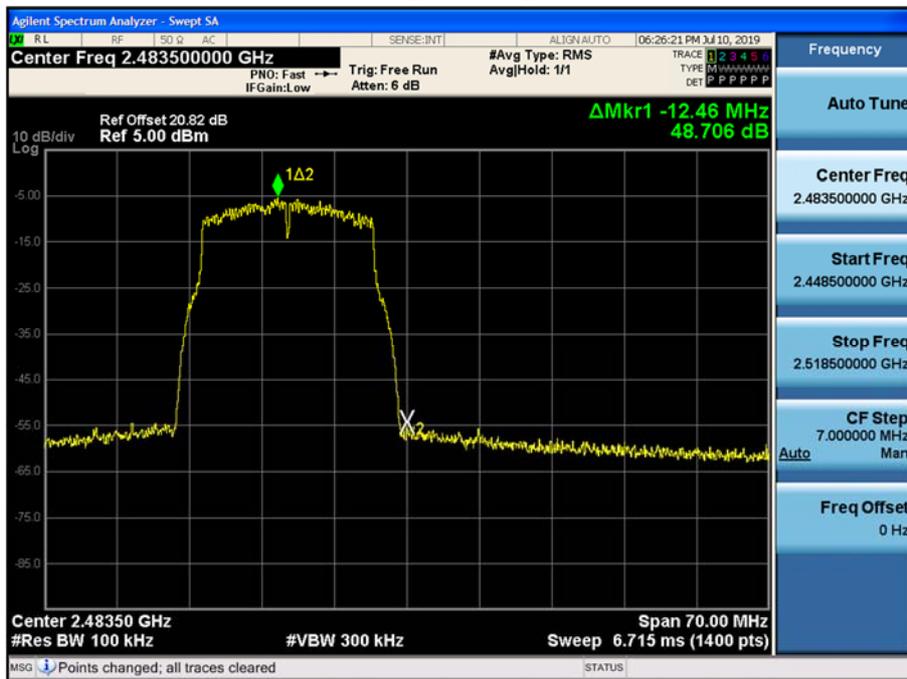
Band Edge (802.11g-CH11)



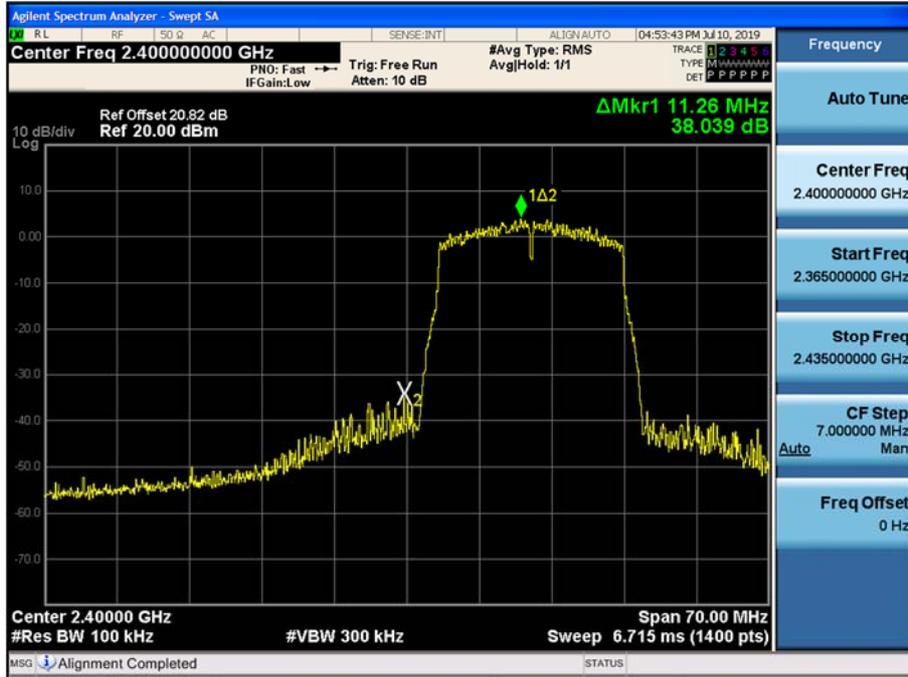
Band Edge (802.11g-CH12)



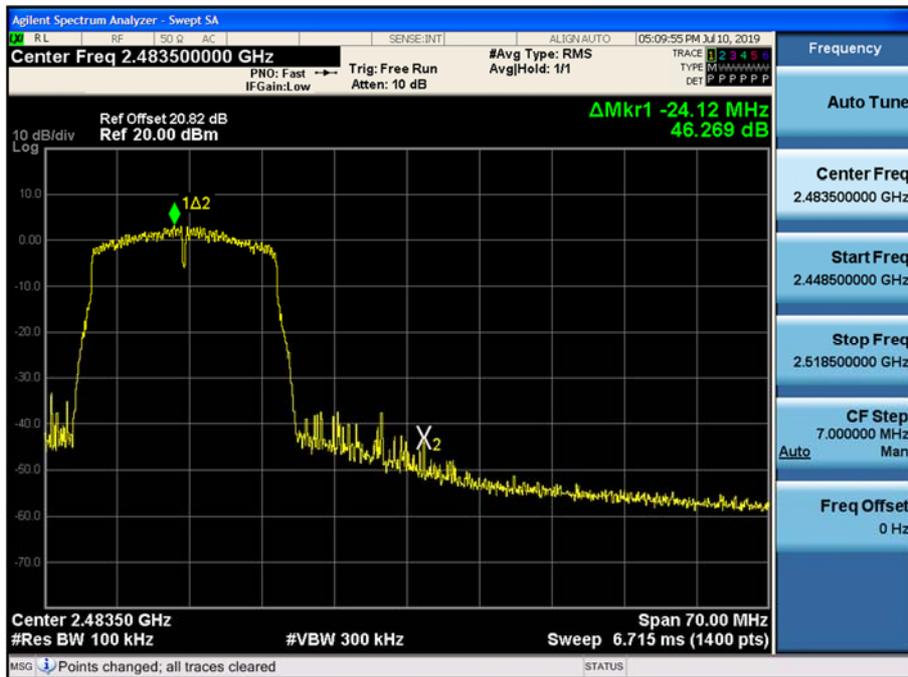
Band Edge (802.11g-CH13)



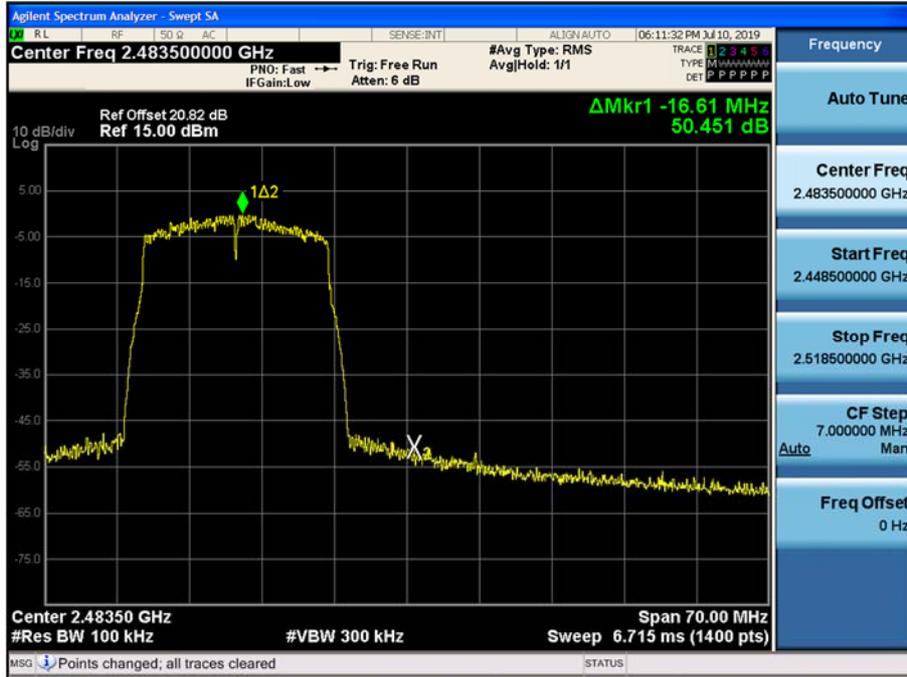
Band Edge (802.11n_HT20 -CH1)



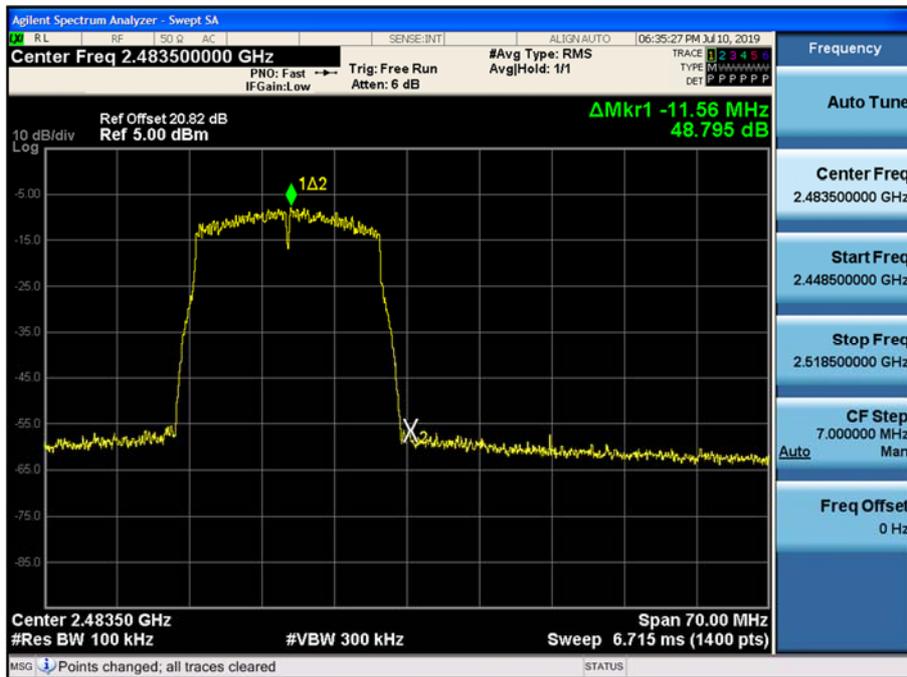
Band Edge (802.11n_HT20 -CH11)



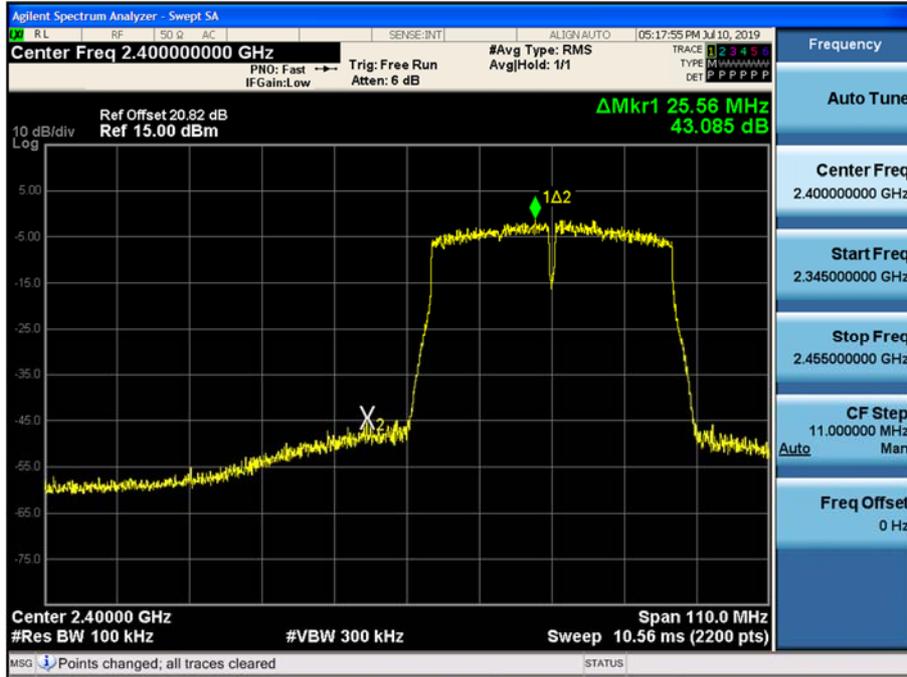
Band Edge (802.11n_HT20 -CH12)



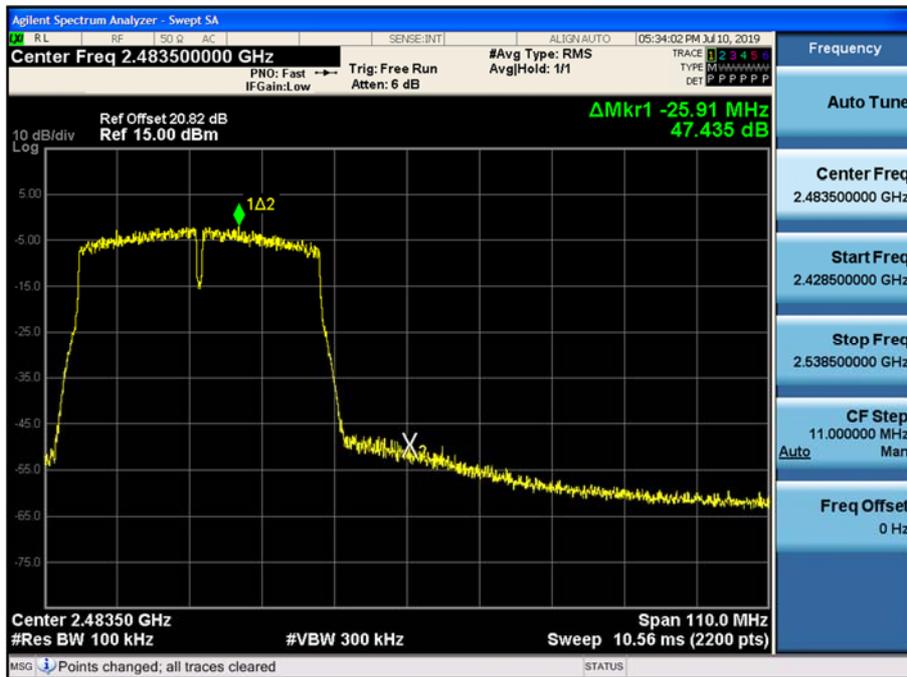
Band Edge (802.11n_HT20 -CH13)



Band Edge (802.11n_HT40 -CH3)



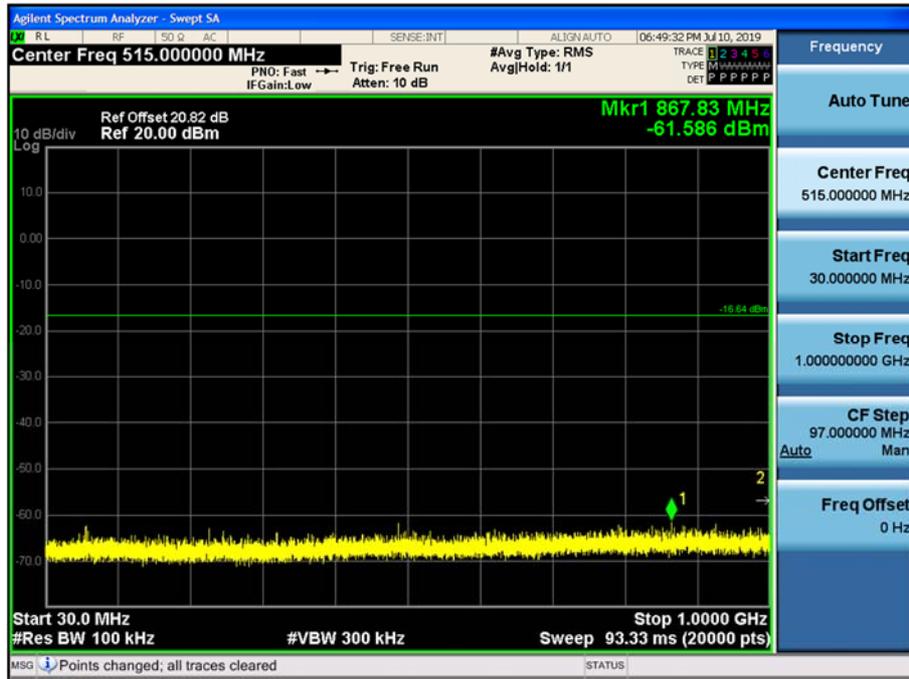
Band Edge (802.11n_HT40 -CH9)



▣ Test Plots(Conducted Spurious Emission)

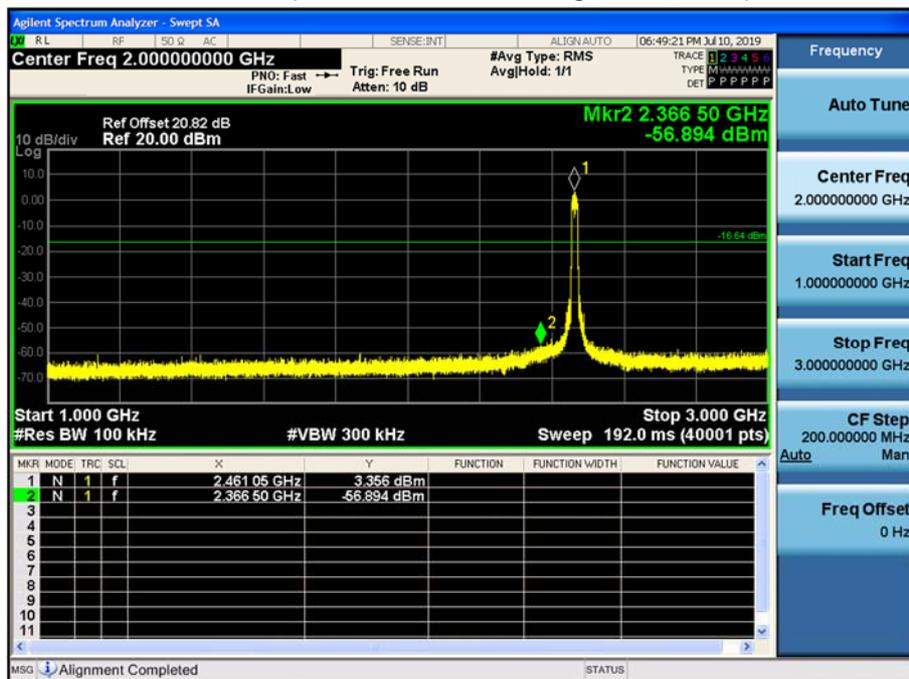
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



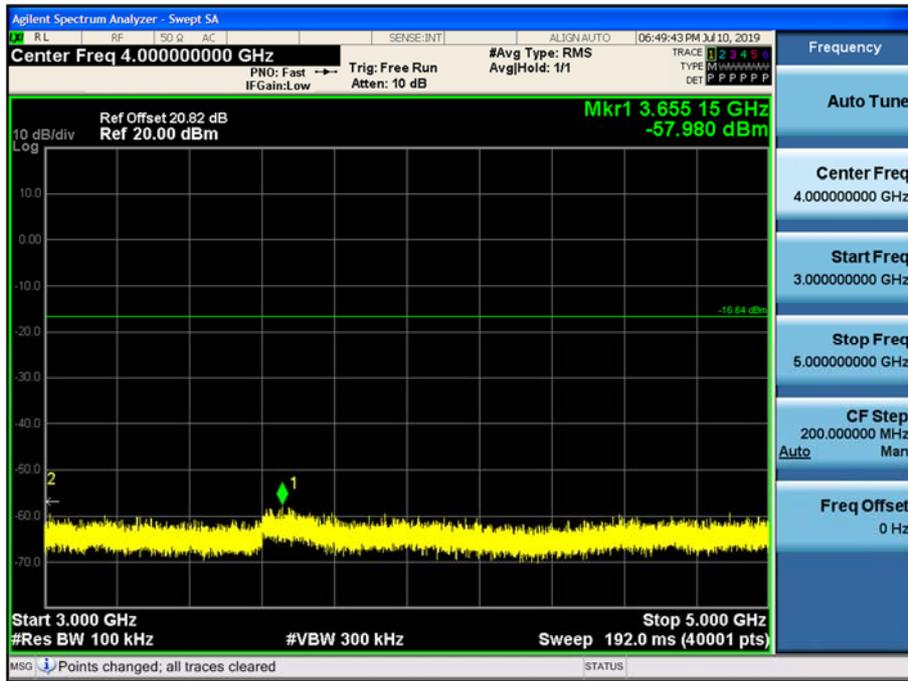
1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



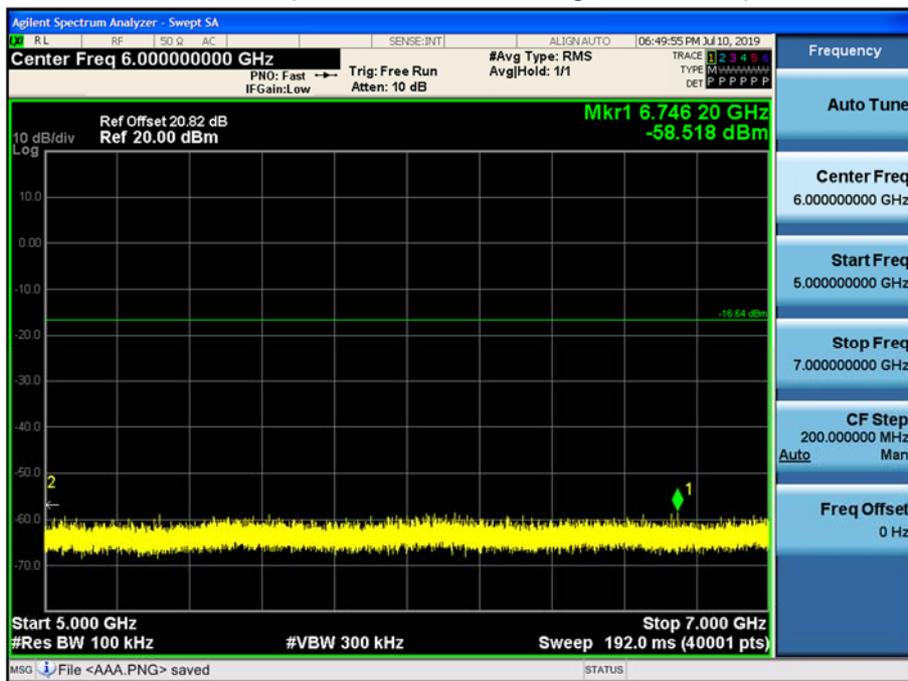
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



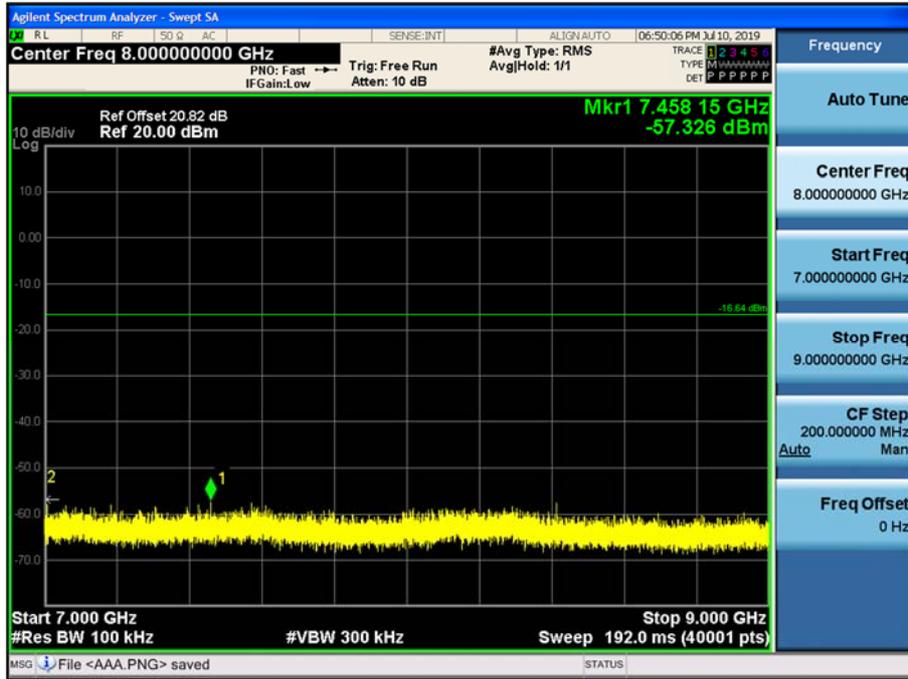
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



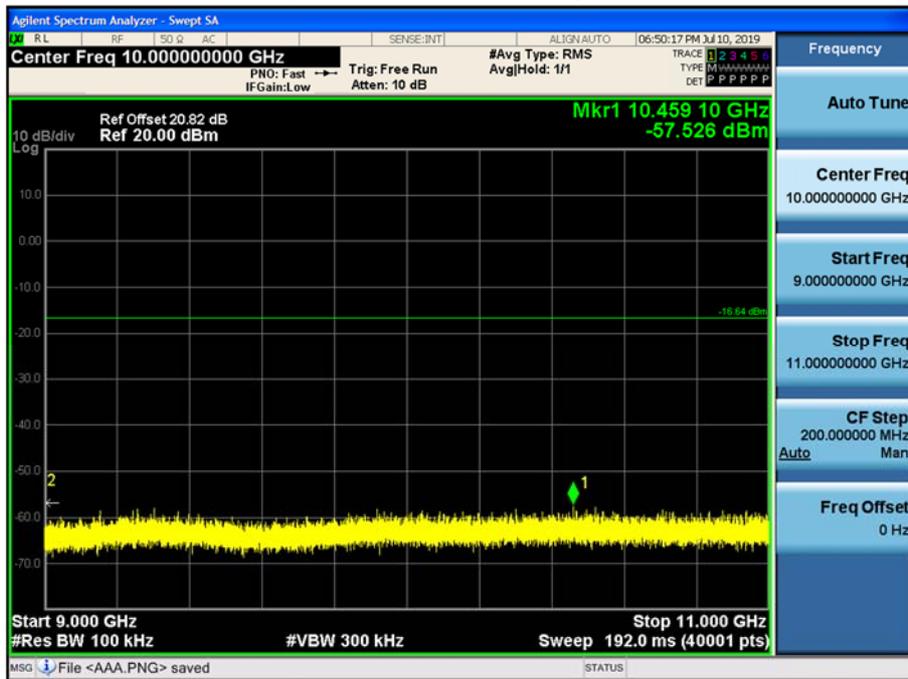
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



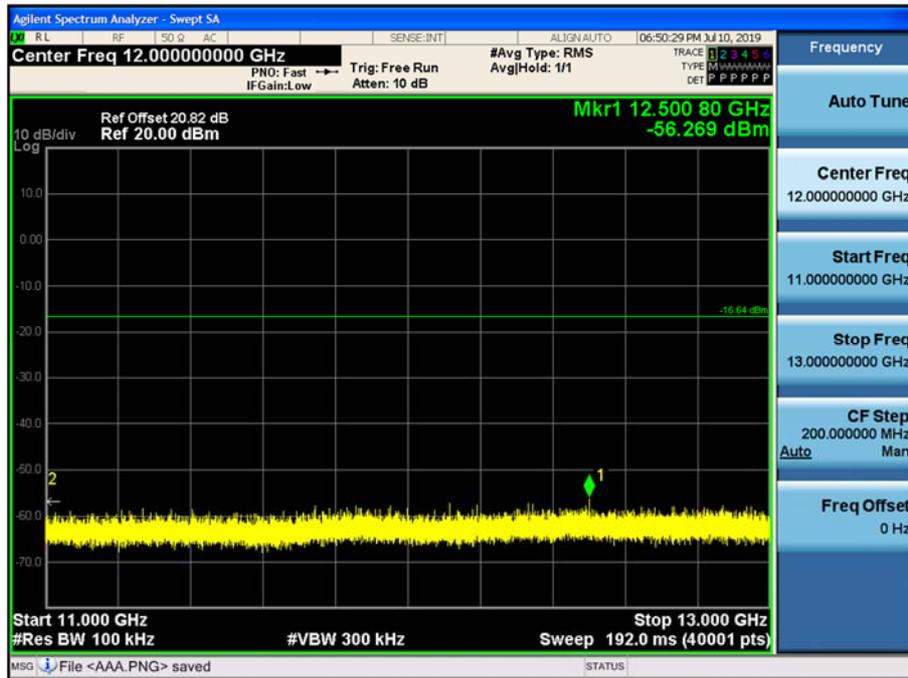
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



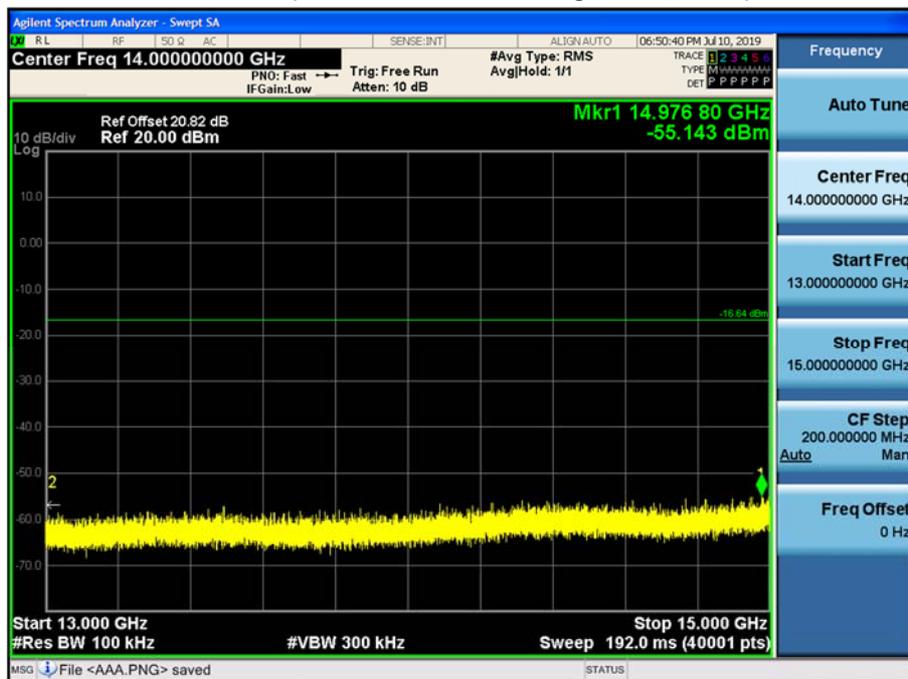
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



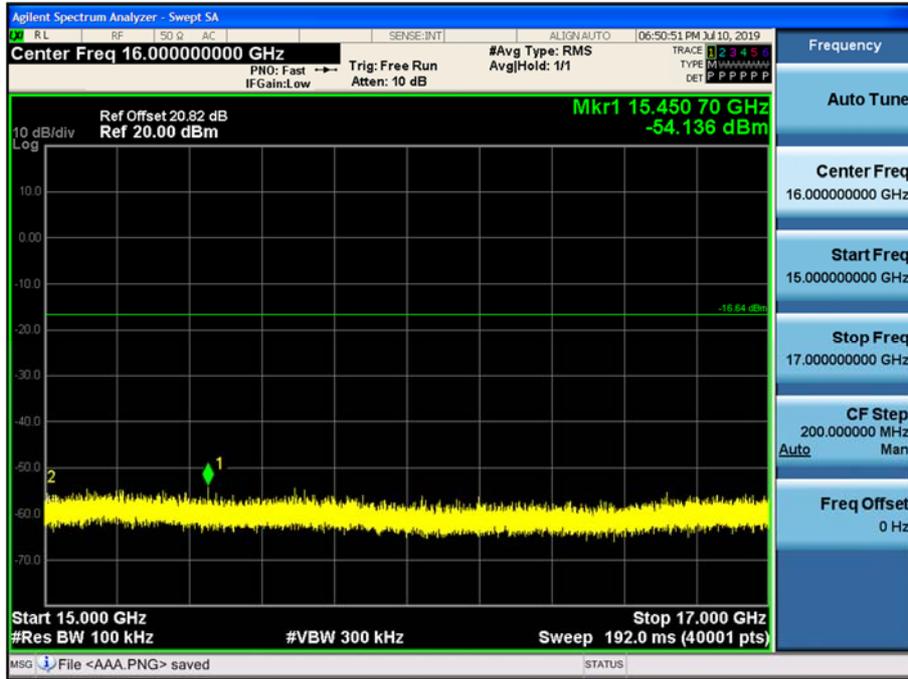
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



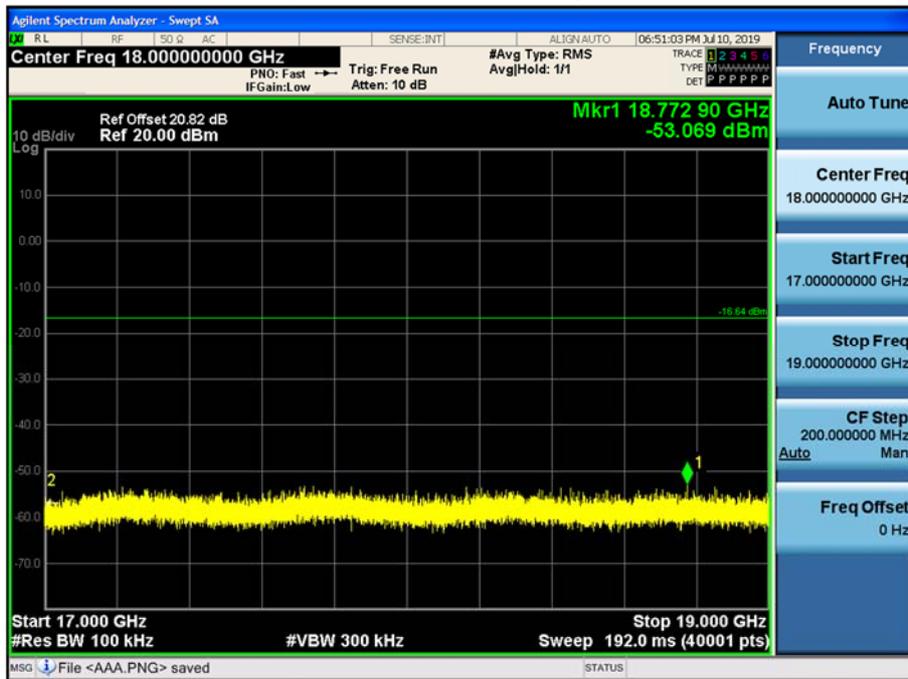
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



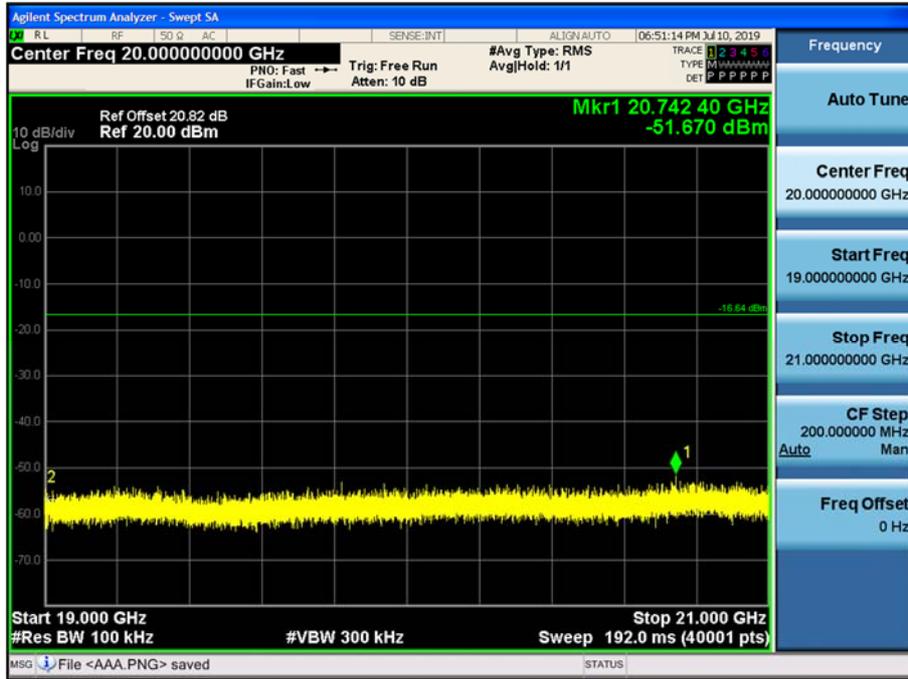
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



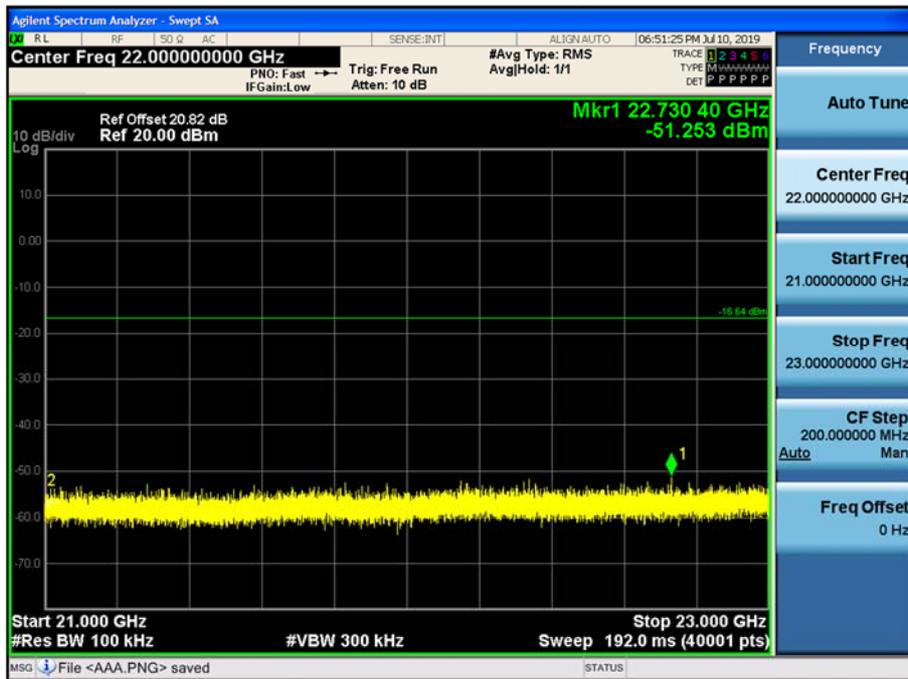
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



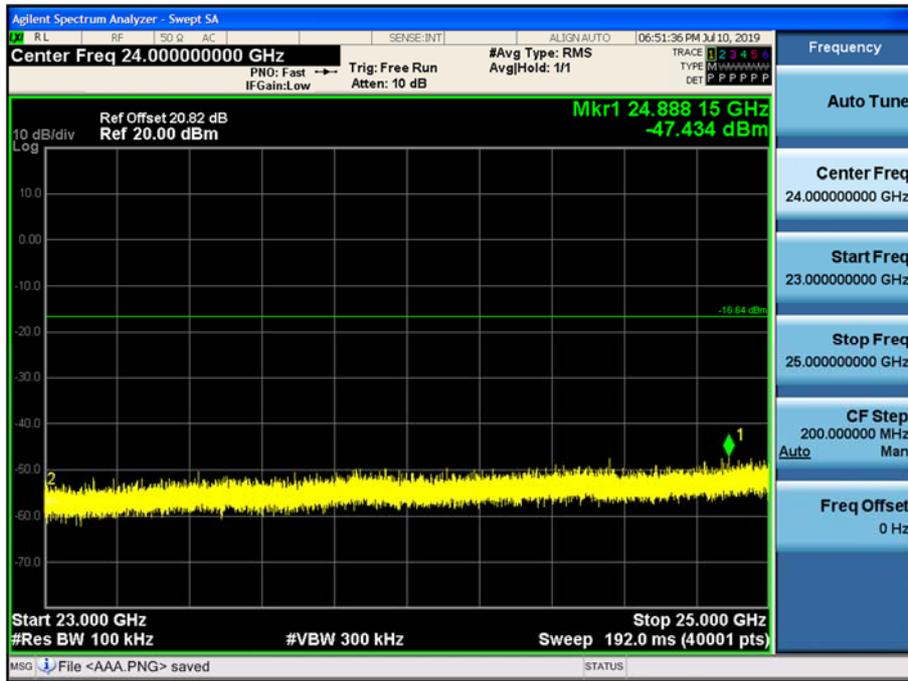
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g_Ch.11_36 Mbps)



9.5 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz | dBuV/m | dBm/m | dBm | (H/V) | dBuV/m | dBuV/m | dB |
| No Critical peaks found | | | | | | | |

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz | dBuV/m | dBm/m | dBm | (H/V) | dBuV/m | dBuV/m | dB |
| No Critical peaks found | | | | | | | |

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

[Only MIMO]
Frequency Range : Above 1 GHz

| | |
|---------------------|---------|
| Operation Mode: | 802.11b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2412 |
| Channel No. | 01 Ch |

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|----------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 4824 | 51.98 | 2.74 | V | 54.72 | 73.98 | 19.26 | PK |
| 4824 | 47.61 | 2.74 | V | 50.35 | 53.98 | 3.63 | AV |
| 7236 | 45.20 | 8.72 | V | 53.92 | 73.98 | 20.06 | PK |
| 7236 | 35.93 | 8.72 | V | 44.65 | 53.98 | 9.33 | AV |
| 4824 | 52.24 | 2.74 | H | 54.98 | 73.98 | 19.00 | PK |
| 4824 | 47.85 | 2.74 | H | 50.59 | 53.98 | 3.39 | AV |
| 7236 | 45.07 | 8.72 | H | 53.79 | 73.98 | 20.19 | PK |
| 7236 | 35.71 | 8.72 | H | 44.43 | 53.98 | 9.55 | AV |

| | |
|---------------------|---------|
| Operation Mode: | 802.11g |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 2412 |
| Channel No. | 01 Ch |

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.- A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|------------------------------|--------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 4824 | 58.17 | 0.00 | 2.74 | V | 60.91 | 73.98 | 13.07 | PK |
| 4824 | 44.90 | 0.00 | 2.74 | V | 47.64 | 53.98 | 6.34 | AV |
| 7236 | 58.14 | 0.00 | 8.72 | V | 66.86 | 73.98 | 7.12 | PK |
| 7236 | 41.94 | 0.00 | 8.72 | V | 50.66 | 53.98 | 3.32 | AV |
| 4824 | 58.40 | 0.00 | 2.74 | H | 61.14 | 73.98 | 12.84 | PK |
| 4824 | 45.40 | 0.00 | 2.74 | H | 48.14 | 53.98 | 5.84 | AV |
| 7236 | 57.22 | 0.00 | 8.72 | H | 65.94 | 73.98 | 8.04 | PK |
| 7236 | 40.90 | 0.00 | 8.72 | H | 49.62 | 53.98 | 4.36 | AV |

| | |
|---------------------|----------------|
| Operation Mode: | 802.11n (HT20) |
| Transfer MCS Index: | 0 |
| Operating Frequency | 2412 |
| Channel No. | 01 Ch |

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4824 | 55.39 | 0.00 | 2.74 | V | 58.13 | 73.98 | 15.85 | PK |
| 4824 | 42.53 | 0.00 | 2.74 | V | 45.27 | 53.98 | 8.71 | AV |
| 7236 | 56.92 | 0.00 | 8.72 | V | 65.64 | 73.98 | 8.34 | PK |
| 7236 | 40.85 | 0.00 | 8.72 | V | 49.57 | 53.98 | 4.41 | AV |
| 4824 | 56.14 | 0.00 | 2.74 | H | 58.88 | 73.98 | 15.10 | PK |
| 4824 | 42.93 | 0.00 | 2.74 | H | 45.67 | 53.98 | 8.31 | AV |
| 7236 | 56.41 | 0.00 | 8.72 | H | 65.13 | 73.98 | 8.85 | PK |
| 7236 | 40.64 | 0.00 | 8.72 | H | 49.36 | 53.98 | 4.62 | AV |

| | |
|---------------------|----------------|
| Operation Mode: | 802.11n (HT40) |
| Transfer MCS Index: | 0 |
| Operating Frequency | 2422 |
| Channel No. | 03 Ch |

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4844 | 50.99 | 0.00 | 3.20 | V | 54.19 | 73.98 | 19.79 | PK |
| 4844 | 37.35 | 0.00 | 3.20 | V | 40.55 | 53.98 | 13.43 | AV |
| 7266 | 47.98 | 0.00 | 8.64 | V | 56.62 | 73.98 | 17.36 | PK |
| 7266 | 33.48 | 0.00 | 8.64 | V | 42.12 | 53.98 | 11.86 | AV |
| 4844 | 51.21 | 0.00 | 3.20 | H | 54.41 | 73.98 | 19.57 | PK |
| 4844 | 37.79 | 0.00 | 3.20 | H | 40.99 | 53.98 | 12.99 | AV |
| 7266 | 47.67 | 0.00 | 8.64 | H | 56.31 | 73.98 | 17.67 | PK |
| 7266 | 33.16 | 0.00 | 8.64 | H | 41.80 | 53.98 | 12.18 | AV |

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2437
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBUV] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBUV/m] | Limit [dBUV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4874 | 51.46 | 2.78 | V | 54.24 | 73.98 | 19.74 | PK |
| 4874 | 47.35 | 2.78 | V | 50.13 | 53.98 | 3.85 | AV |
| 7311 | 43.17 | 9.01 | V | 52.18 | 73.98 | 21.80 | PK |
| 7311 | 32.90 | 9.01 | V | 41.91 | 53.98 | 12.07 | AV |
| 4874 | 52.02 | 2.78 | H | 54.80 | 73.98 | 19.18 | PK |
| 4874 | 47.73 | 2.78 | H | 50.51 | 53.98 | 3.47 | AV |
| 7311 | 42.66 | 9.01 | H | 51.67 | 73.98 | 22.31 | PK |
| 7311 | 32.66 | 9.01 | H | 41.67 | 53.98 | 12.31 | AV |

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2437
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBUV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBUV/m] | Limit [dBUV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4874 | 55.31 | 0.00 | 2.78 | V | 58.09 | 73.98 | 15.89 | PK |
| 4874 | 44.16 | 0.00 | 2.78 | V | 46.94 | 53.98 | 7.04 | AV |
| 7311 | 55.47 | 0.00 | 9.01 | V | 64.48 | 73.98 | 9.50 | PK |
| 7311 | 39.40 | 0.00 | 9.01 | V | 48.41 | 53.98 | 5.57 | AV |
| 4874 | 55.80 | 0.00 | 2.78 | H | 58.58 | 73.98 | 15.40 | PK |
| 4874 | 44.40 | 0.00 | 2.78 | H | 47.18 | 53.98 | 6.80 | AV |
| 7311 | 55.11 | 0.00 | 9.01 | H | 64.12 | 73.98 | 9.86 | PK |
| 7311 | 39.04 | 0.00 | 9.01 | H | 48.05 | 53.98 | 5.93 | AV |

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2437
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4874 | 54.19 | 0.00 | 2.78 | V | 56.97 | 73.98 | 17.01 | PK |
| 4874 | 41.38 | 0.00 | 2.78 | V | 44.16 | 53.98 | 9.82 | AV |
| 7311 | 54.63 | 0.00 | 9.01 | V | 63.64 | 73.98 | 10.34 | PK |
| 7311 | 37.25 | 0.00 | 9.01 | V | 46.26 | 53.98 | 7.72 | AV |
| 4874 | 54.83 | 0.00 | 2.78 | H | 57.61 | 73.98 | 16.37 | PK |
| 4874 | 41.65 | 0.00 | 2.78 | H | 44.43 | 53.98 | 9.55 | AV |
| 7311 | 54.15 | 0.00 | 9.01 | H | 63.16 | 73.98 | 10.82 | PK |
| 7311 | 36.77 | 0.00 | 9.01 | H | 45.78 | 53.98 | 8.20 | AV |

Operation Mode: 802.11n (HT40)
 Transfer MCS Index: 0
 Operating Frequency: 2437
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4874 | 46.85 | 0.00 | 2.78 | V | 49.63 | 73.98 | 24.35 | PK |
| 4874 | 35.16 | 0.00 | 2.78 | V | 37.94 | 53.98 | 16.04 | AV |
| 7311 | 45.48 | 0.00 | 9.01 | V | 54.49 | 73.98 | 19.49 | PK |
| 7311 | 32.19 | 0.00 | 9.01 | V | 41.20 | 53.98 | 12.78 | AV |
| 4874 | 47.24 | 0.00 | 2.78 | H | 50.02 | 73.98 | 23.96 | PK |
| 4874 | 35.90 | 0.00 | 2.78 | H | 38.68 | 53.98 | 15.30 | AV |
| 7311 | 45.18 | 0.00 | 9.01 | H | 54.19 | 73.98 | 19.79 | PK |
| 7311 | 31.99 | 0.00 | 9.01 | H | 41.00 | 53.98 | 12.98 | AV |

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2462
 Channel No.: 11 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 51.85 | 2.43 | V | 54.28 | 73.98 | 19.70 | PK |
| 4924 | 46.11 | 2.43 | V | 48.54 | 53.98 | 5.44 | AV |
| 7386 | 42.09 | 9.44 | V | 51.53 | 73.98 | 22.45 | PK |
| 7386 | 32.50 | 9.44 | V | 41.94 | 53.98 | 12.04 | AV |
| 4924 | 52.06 | 2.43 | H | 54.49 | 73.98 | 19.49 | PK |
| 4924 | 46.33 | 2.43 | H | 48.76 | 53.98 | 5.22 | AV |
| 7386 | 41.96 | 9.44 | H | 51.40 | 73.98 | 22.58 | PK |
| 7386 | 32.41 | 9.44 | H | 41.85 | 53.98 | 12.13 | AV |

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2462
 Channel No.: 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 57.36 | 0.00 | 2.43 | V | 59.79 | 73.98 | 14.19 | PK |
| 4924 | 45.14 | 0.00 | 2.43 | V | 47.57 | 53.98 | 6.41 | AV |
| 7386 | 55.40 | 0.00 | 9.44 | V | 64.84 | 73.98 | 9.14 | PK |
| 7386 | 38.60 | 0.00 | 9.44 | V | 48.04 | 53.98 | 5.94 | AV |
| 4924 | 57.74 | 0.00 | 2.43 | H | 60.17 | 73.98 | 13.81 | PK |
| 4924 | 46.01 | 0.00 | 2.43 | H | 48.44 | 53.98 | 5.54 | AV |
| 7386 | 55.06 | 0.00 | 9.44 | H | 64.50 | 73.98 | 9.48 | PK |
| 7386 | 38.17 | 0.00 | 9.44 | H | 47.61 | 53.98 | 6.37 | AV |

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2462
 Channel No. 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 55.00 | 0.00 | 2.43 | V | 57.43 | 73.98 | 16.55 | PK |
| 4924 | 42.17 | 0.00 | 2.43 | V | 44.60 | 53.98 | 9.38 | AV |
| 7386 | 52.14 | 0.00 | 9.44 | V | 61.58 | 73.98 | 12.40 | PK |
| 7386 | 35.29 | 0.00 | 9.44 | V | 44.73 | 53.98 | 9.25 | AV |
| 4924 | 55.44 | 0.00 | 2.43 | H | 57.87 | 73.98 | 16.11 | PK |
| 4924 | 42.93 | 0.00 | 2.43 | H | 45.36 | 53.98 | 8.62 | AV |
| 7386 | 51.47 | 0.00 | 9.44 | H | 60.91 | 73.98 | 13.07 | PK |
| 7386 | 34.96 | 0.00 | 9.44 | H | 44.40 | 53.98 | 9.58 | AV |

Operation Mode: 802.11n (HT40)
 Transfer MCS Index: 0
 Operating Frequency: 2452
 Channel No. 9 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4904 | 50.05 | 0.00 | 2.56 | V | 52.61 | 73.98 | 21.37 | PK |
| 4904 | 37.17 | 0.00 | 2.56 | V | 39.73 | 53.98 | 14.25 | AV |
| 7356 | 43.89 | 0.00 | 9.69 | V | 53.58 | 73.98 | 20.40 | PK |
| 7356 | 31.55 | 0.00 | 9.69 | V | 41.24 | 53.98 | 12.74 | AV |
| 4904 | 50.64 | 0.00 | 2.56 | H | 53.20 | 73.98 | 20.78 | PK |
| 4904 | 37.75 | 0.00 | 2.56 | H | 40.31 | 53.98 | 13.67 | AV |
| 7356 | 43.25 | 0.00 | 9.69 | H | 52.94 | 73.98 | 21.04 | PK |
| 7356 | 31.05 | 0.00 | 9.69 | H | 40.74 | 53.98 | 13.24 | AV |

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2467
 Channel No. 12 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 52.17 | 2.43 | V | 54.60 | 73.98 | 19.38 | PK |
| 4924 | 47.55 | 2.43 | V | 49.98 | 53.98 | 4.00 | AV |
| 7386 | 43.31 | 9.44 | V | 52.75 | 73.98 | 21.23 | PK |
| 7386 | 31.89 | 9.44 | V | 41.33 | 53.98 | 12.65 | AV |
| 4924 | 52.55 | 2.43 | H | 54.98 | 73.98 | 19.00 | PK |
| 4924 | 47.93 | 2.43 | H | 50.36 | 53.98 | 3.62 | AV |
| 7386 | 43.02 | 9.44 | H | 52.46 | 73.98 | 21.52 | PK |
| 7386 | 31.24 | 9.44 | H | 40.68 | 53.98 | 13.30 | AV |

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2467
 Channel No. 12 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 53.16 | 0.00 | 2.43 | V | 55.59 | 73.98 | 18.39 | PK |
| 4924 | 39.54 | 0.00 | 2.43 | V | 41.97 | 53.98 | 12.01 | AV |
| 7386 | 49.36 | 0.00 | 9.44 | V | 58.80 | 73.98 | 15.18 | PK |
| 7386 | 31.53 | 0.00 | 9.44 | V | 40.97 | 53.98 | 13.01 | AV |
| 4924 | 53.59 | 0.00 | 2.43 | H | 56.02 | 73.98 | 17.96 | PK |
| 4924 | 39.89 | 0.00 | 2.43 | H | 42.32 | 53.98 | 11.66 | AV |
| 7386 | 49.04 | 0.00 | 9.44 | H | 58.48 | 73.98 | 15.50 | PK |
| 7386 | 31.21 | 0.00 | 9.44 | H | 40.65 | 53.98 | 13.33 | AV |

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency 2467
 Channel No. 12 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 51.55 | 0.00 | 2.43 | V | 53.98 | 73.98 | 20.00 | PK |
| 4924 | 37.71 | 0.00 | 2.43 | V | 40.14 | 53.98 | 13.84 | AV |
| 7386 | 49.44 | 0.00 | 9.44 | V | 58.88 | 73.98 | 15.10 | PK |
| 7386 | 30.82 | 0.00 | 9.44 | V | 40.26 | 53.98 | 13.72 | AV |
| 4924 | 51.86 | 0.00 | 2.43 | H | 54.29 | 73.98 | 19.69 | PK |
| 4924 | 38.12 | 0.00 | 2.43 | H | 40.55 | 53.98 | 13.43 | AV |
| 7386 | 49.17 | 0.00 | 9.44 | H | 58.61 | 73.98 | 15.37 | PK |
| 7386 | 30.55 | 0.00 | 9.44 | H | 39.99 | 53.98 | 13.99 | AV |

| | |
|---------------------|---------|
| Operation Mode: | 802.11b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2472 |
| Channel No. | 13 Ch |

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 49.94 | 2.43 | V | 52.37 | 73.98 | 21.61 | PK |
| 4924 | 45.12 | 2.43 | V | 47.55 | 53.98 | 6.43 | AV |
| 7386 | 41.92 | 9.44 | V | 51.36 | 73.98 | 22.62 | PK |
| 7386 | 30.57 | 9.44 | V | 40.01 | 53.98 | 13.97 | AV |
| 4924 | 50.17 | 2.43 | H | 52.60 | 73.98 | 21.38 | PK |
| 4924 | 45.52 | 2.43 | H | 47.95 | 53.98 | 6.03 | AV |
| 7386 | 41.55 | 9.44 | H | 50.99 | 73.98 | 22.99 | PK |
| 7386 | 30.17 | 9.44 | H | 39.61 | 53.98 | 14.37 | AV |

| | |
|---------------------|---------|
| Operation Mode: | 802.11g |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 2472 |
| Channel No. | 13 Ch |

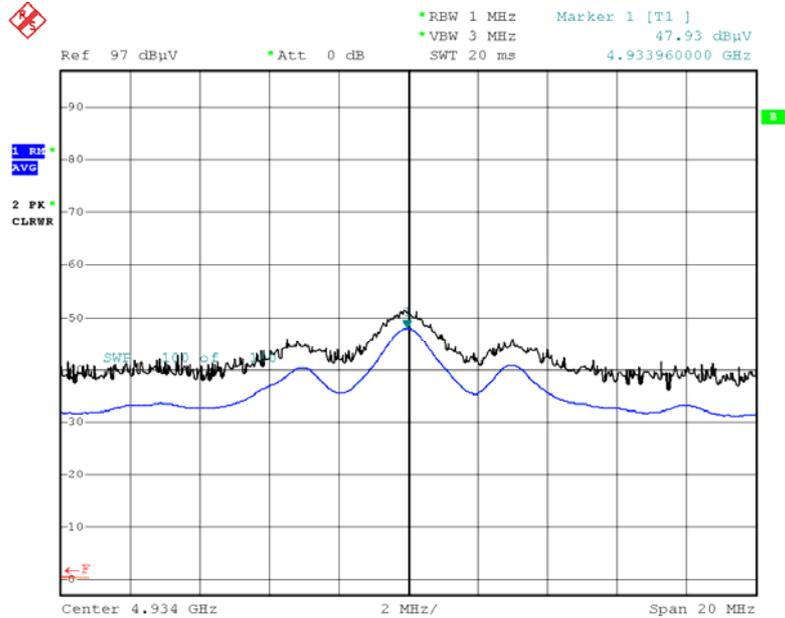
| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 42.51 | 0.00 | 2.43 | V | 44.94 | 73.98 | 29.04 | PK |
| 4924 | 31.17 | 0.00 | 2.43 | V | 33.60 | 53.98 | 20.38 | AV |
| 7386 | 42.30 | 0.00 | 9.44 | V | 51.74 | 73.98 | 22.24 | PK |
| 7386 | 29.93 | 0.00 | 9.44 | V | 39.37 | 53.98 | 14.61 | AV |
| 4924 | 42.86 | 0.00 | 2.43 | H | 45.29 | 73.98 | 28.69 | PK |
| 4924 | 31.63 | 0.00 | 2.43 | H | 34.06 | 53.98 | 19.92 | AV |
| 7386 | 42.11 | 0.00 | 9.44 | H | 51.55 | 73.98 | 22.43 | PK |
| 7386 | 29.58 | 0.00 | 9.44 | H | 39.02 | 53.98 | 14.96 | AV |

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency 2472
 Channel No. 13 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.-A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------------|----------------|----------------|----------------|-------------|------------------|
| 4924 | 42.55 | 0.00 | 2.43 | V | 44.98 | 73.98 | 29.00 | PK |
| 4924 | 31.04 | 0.00 | 2.43 | V | 33.47 | 53.98 | 20.51 | AV |
| 7386 | 41.83 | 0.00 | 9.44 | V | 51.27 | 73.98 | 22.71 | PK |
| 7386 | 29.81 | 0.00 | 9.44 | V | 39.25 | 53.98 | 14.73 | AV |
| 4924 | 42.92 | 0.00 | 2.43 | H | 45.35 | 73.98 | 28.63 | PK |
| 4924 | 31.35 | 0.00 | 2.43 | H | 33.78 | 53.98 | 20.20 | AV |
| 7386 | 41.54 | 0.00 | 9.44 | H | 50.98 | 73.98 | 23.00 | PK |
| 7386 | 29.71 | 0.00 | 9.44 | H | 39.15 | 53.98 | 14.83 | AV |

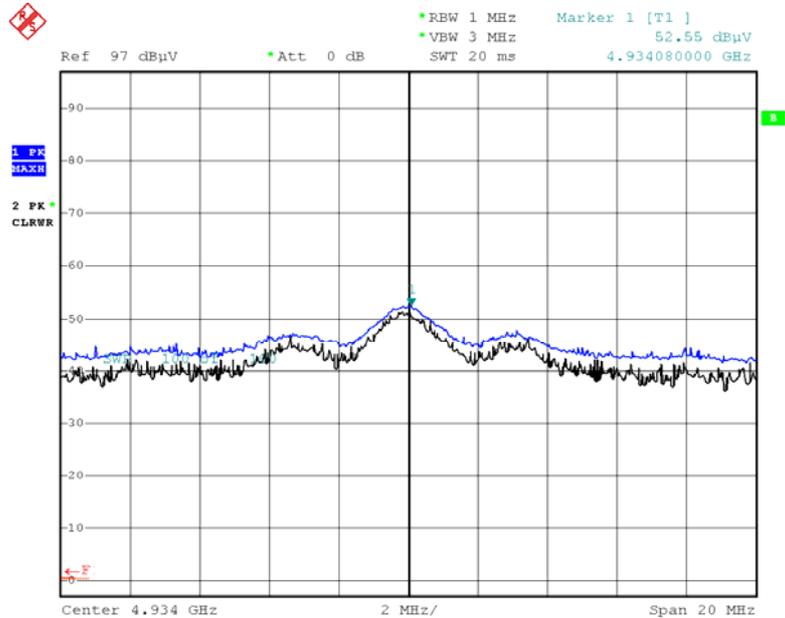
Test Plots (Worst case : Y-V)

Radiated Spurious Emissions plot – Average Reading (802.11b, Ch.12 2nd Harmonic)



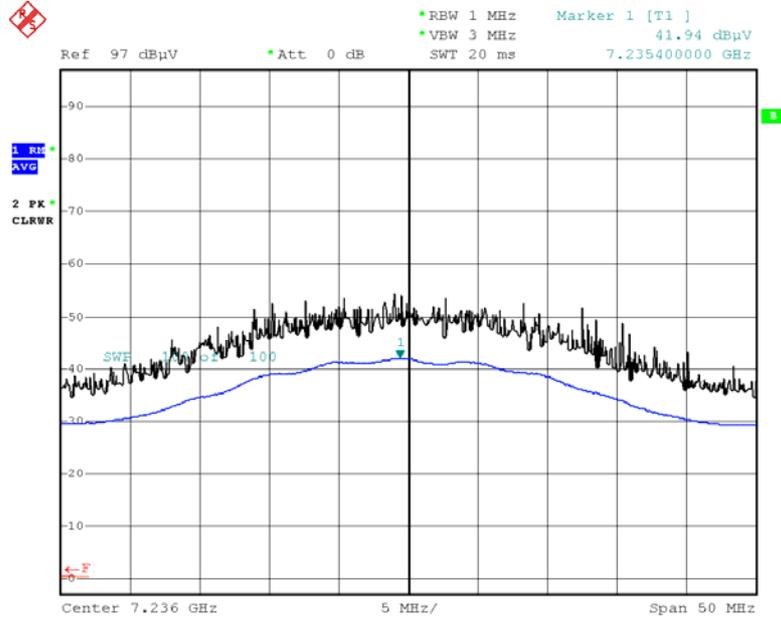
Date: 9.JUL.2019 04:50:43

Radiated Spurious Emissions plot – Peak Reading (802.11b, Ch.12 2nd Harmonic)



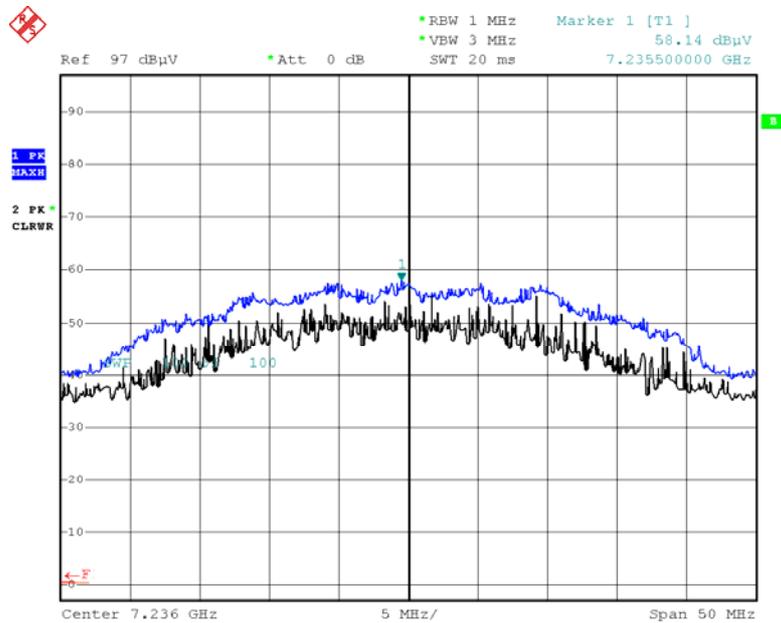
Date: 9.JUL.2019 04:50:21

Radiated Spurious Emissions plot – Average Reading (802.11g, Ch.1 3rd Harmonic)



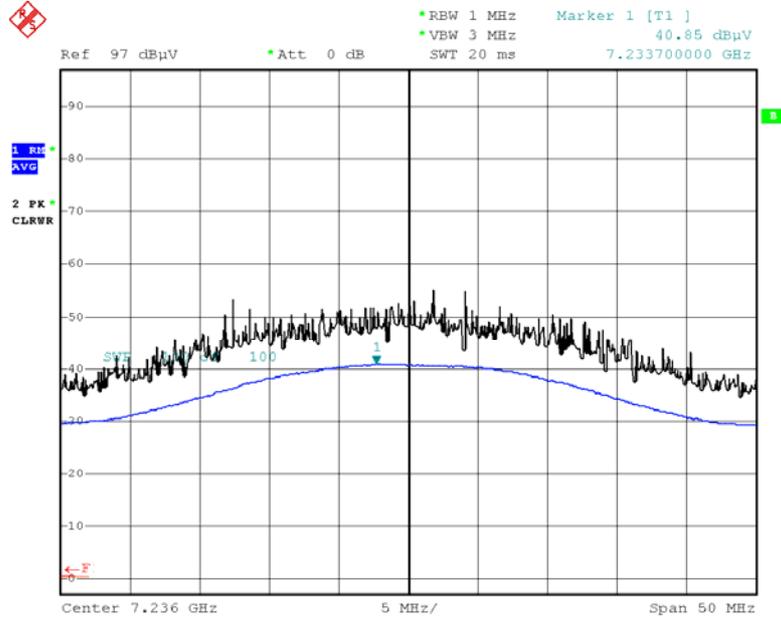
Date: 8.JUL.2019 10:14:58

Radiated Spurious Emissions plot – Peak Reading (802.11g, Ch.1 3rd Harmonic)



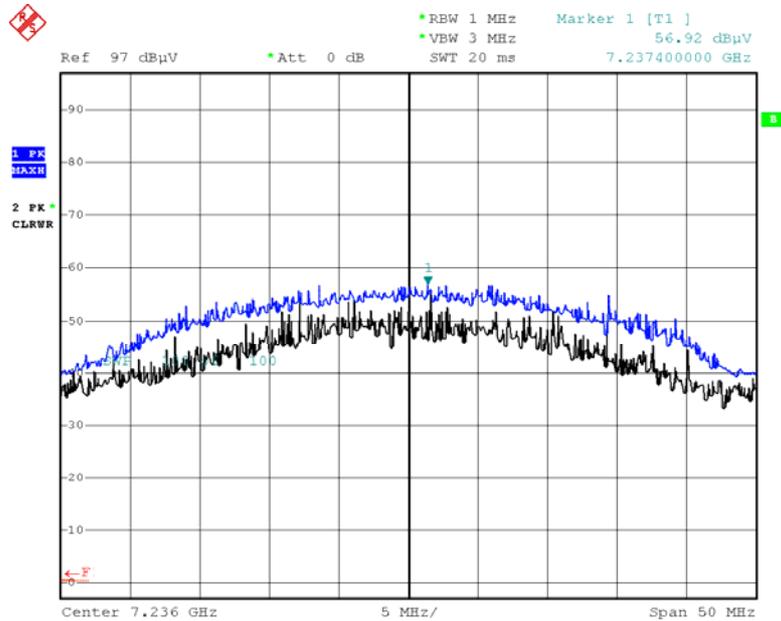
Date: 8.JUL.2019 10:15:39

Radiated Spurious Emissions plot – Average Reading (802.11n (HT20), Ch.1 3rd Harmonic)



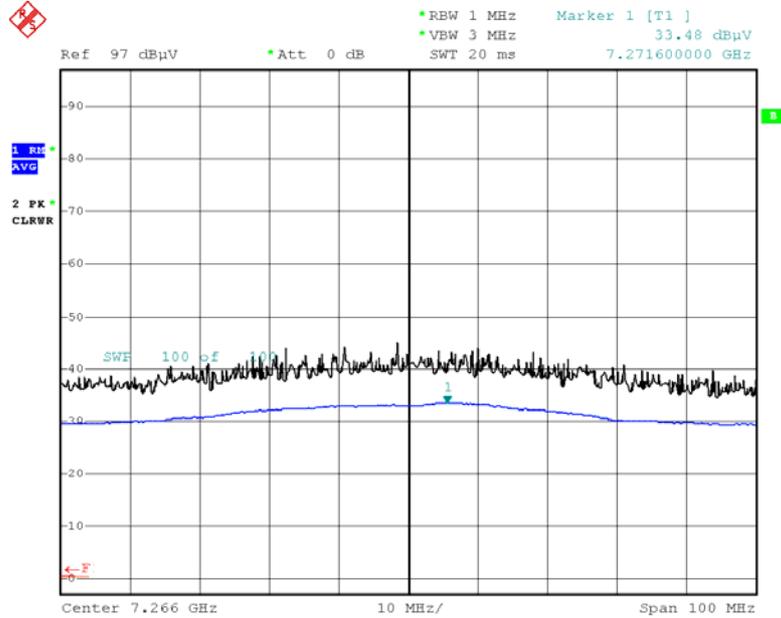
Date: 8.JUL.2019 10:16:34

Radiated Spurious Emissions plot – Peak Reading (802.11n (HT20), Ch.1 3rd Harmonic)



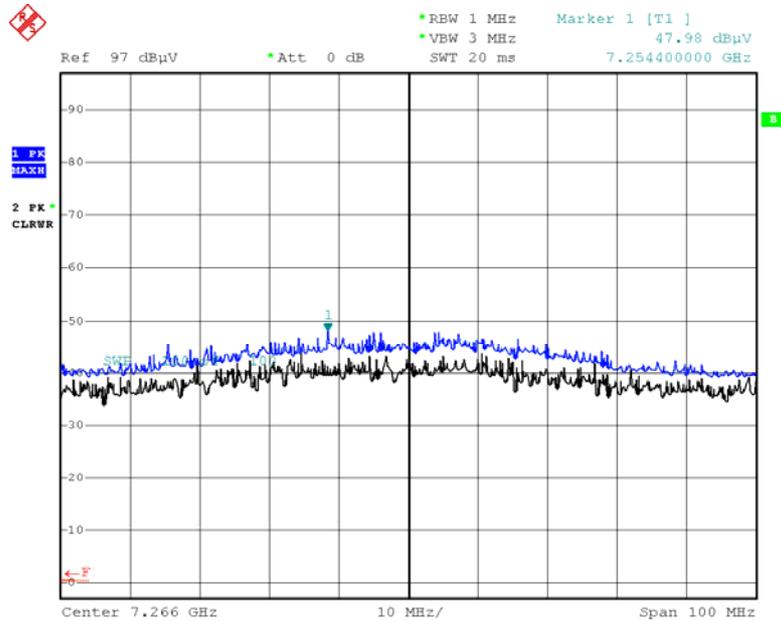
Date: 8.JUL.2019 10:16:57

Radiated Spurious Emissions plot – Average Reading (802.11n (HT40), Ch.3 3rd Harmonic)



Date: 8.JUL.2019 10:18:36

Radiated Spurious Emissions plot – Peak Reading (802.11n (HT40), Ch.3 3rd Harmonic)



Date: 8.JUL.2019 10:18:14

Note:

Plot of worst case are only reported.

9.6 RADIATED RESTRICTED BAND EDGES

| | |
|---------------------|--------------------|
| Operation Mode: | 802.11b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2412 MHz, 2462 MHz |
| Channel No. | 01 Ch, 11 Ch |

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.+D.F. -A.G+ATT [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------------|----------------|----------------|----------------|-------------|------------------|
| 2390.0 | 58.05 | 0.22 | H | 58.27 | 73.98 | 15.71 | PK |
| 2390.0 | 46.47 | 0.22 | H | 46.69 | 53.98 | 7.29 | AV |
| 2390.0 | 57.39 | 0.22 | V | 57.61 | 73.98 | 16.37 | PK |
| 2390.0 | 46.11 | 0.22 | V | 46.33 | 53.98 | 7.65 | AV |
| 2483.5 | 58.16 | 0.65 | H | 58.81 | 73.98 | 15.17 | PK |
| 2483.5 | 45.99 | 0.65 | H | 46.64 | 53.98 | 7.34 | AV |
| 2483.5 | 58.68 | 0.65 | V | 59.33 | 73.98 | 14.65 | PK |
| 2483.5 | 46.17 | 0.65 | V | 46.82 | 53.98 | 7.16 | AV |

| | |
|---------------------|--------------------|
| Operation Mode: | 802.11b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2467 MHz, 2472 MHz |
| Channel No. | 12 Ch, 13 Ch |

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.+D.F. -A.G+ATT [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------------|----------------|----------------|----------------|-------------|------------------|
| 12 ch / 2483.5 | 58.14 | 0.65 | H | 58.79 | 73.98 | 15.19 | PK |
| 12 ch / 2483.5 | 47.11 | 0.65 | H | 47.76 | 53.98 | 6.22 | AV |
| 12 ch / 2483.5 | 58.57 | 0.65 | V | 59.22 | 73.98 | 14.76 | PK |
| 12 ch / 2483.5 | 47.59 | 0.65 | V | 48.24 | 53.98 | 5.74 | AV |
| 13 ch / 2483.5 | 60.07 | 0.65 | H | 60.72 | 73.98 | 13.26 | PK |
| 13 ch / 2483.5 | 50.24 | 0.65 | H | 50.89 | 53.98 | 3.09 | AV |
| 13 ch / 2483.5 | 60.47 | 0.65 | V | 61.12 | 73.98 | 12.86 | PK |
| 13 ch / 2483.5 | 50.61 | 0.65 | V | 51.26 | 53.98 | 2.72 | AV |

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2412 MHz, 2462 MHz
 Channel No.: 01 Ch, 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.+D.F -A.G+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|---------------------------------|------------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0 | 64.34 | 0.00 | 0.22 | H | 64.56 | 73.98 | 9.42 | PK |
| 2390.0 | 50.23 | 0.00 | 0.22 | H | 50.45 | 53.98 | 3.53 | AV |
| 2390.0 | 64.17 | 0.00 | 0.22 | V | 64.39 | 73.98 | 9.59 | PK |
| 2390.0 | 50.11 | 0.00 | 0.22 | V | 50.33 | 53.98 | 3.65 | AV |
| 2483.5 | 66.94 | 0.00 | 0.65 | H | 67.59 | 73.98 | 6.39 | PK |
| 2483.5 | 49.55 | 0.00 | 0.65 | H | 50.20 | 53.98 | 3.78 | AV |
| 2483.5 | 67.24 | 0.00 | 0.65 | V | 67.89 | 73.98 | 6.09 | PK |
| 2483.5 | 49.71 | 0.00 | 0.65 | V | 50.36 | 53.98 | 3.62 | AV |

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2467 MHz, 2472 MHz
 Channel No.: 12 Ch, 13 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.+D.F -A.G+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|---------------------------------|------------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 12 ch / 2483.5 | 66.18 | 0.00 | 0.65 | H | 66.83 | 73.98 | 7.15 | PK |
| 12 ch / 2483.5 | 49.57 | 0.00 | 0.65 | H | 50.22 | 53.98 | 3.76 | AV |
| 12 ch / 2483.5 | 66.58 | 0.00 | 0.65 | V | 67.23 | 73.98 | 6.75 | PK |
| 12 ch / 2483.5 | 49.84 | 0.00 | 0.65 | V | 50.49 | 53.98 | 3.49 | AV |
| 13 ch / 2483.5 | 63.11 | 0.00 | 0.65 | H | 63.76 | 73.98 | 10.22 | PK |
| 13 ch / 2483.5 | 49.88 | 0.00 | 0.65 | H | 50.53 | 53.98 | 3.45 | AV |
| 13 ch / 2483.5 | 63.78 | 0.00 | 0.65 | V | 64.43 | 73.98 | 9.55 | PK |
| 13 ch / 2483.5 | 50.03 | 0.00 | 0.65 | V | 50.68 | 53.98 | 3.30 | AV |

Operation Mode: 802.11n (HT20)
 Transfer Rate: 0
 Operating Frequency: 2412 MHz, 2462 MHz
 Channel No.: 01 Ch, 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.+D.F -A.G+ATT [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|------------------------------|-----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0 | 67.22 | 0.00 | 0.22 | H | 67.44 | 73.98 | 6.54 | PK |
| 2390.0 | 50.72 | 0.00 | 0.22 | H | 50.94 | 53.98 | 3.04 | AV |
| 2390.0 | 66.97 | 0.00 | 0.22 | V | 67.19 | 73.98 | 6.79 | PK |
| 2390.0 | 50.53 | 0.00 | 0.22 | V | 50.75 | 53.98 | 3.23 | AV |
| 2483.5 | 67.21 | 0.00 | 0.65 | H | 67.86 | 73.98 | 6.12 | PK |
| 2483.5 | 49.58 | 0.00 | 0.65 | H | 50.23 | 53.98 | 3.75 | AV |
| 2483.5 | 67.76 | 0.00 | 0.65 | V | 68.41 | 73.98 | 5.57 | PK |
| 2483.5 | 50.10 | 0.00 | 0.65 | V | 50.75 | 53.98 | 3.23 | AV |

Operation Mode: 802.11n (HT20)
 Transfer Rate: 0
 Operating Frequency: 2467 MHz, 2472 MHz
 Channel No.: 12 Ch, 13 Ch

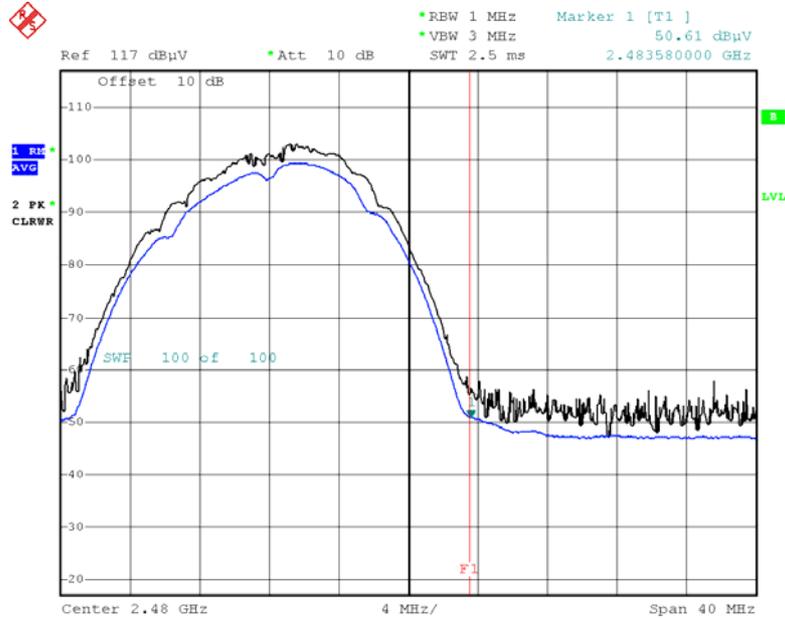
| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.+D.F -A.G+ATT [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|------------------------------|-----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 12 ch / 2483.5 | 67.23 | 0.00 | 0.65 | H | 67.88 | 73.98 | 6.10 | PK |
| 12 ch / 2483.5 | 49.98 | 0.00 | 0.65 | H | 50.63 | 53.98 | 3.35 | AV |
| 12 ch / 2483.5 | 67.75 | 0.00 | 0.65 | V | 68.40 | 73.98 | 5.58 | PK |
| 12 ch / 2483.5 | 50.30 | 0.00 | 0.65 | V | 50.95 | 53.98 | 3.03 | AV |
| 13 ch / 2483.5 | 61.01 | 0.00 | 0.65 | H | 61.66 | 73.98 | 12.32 | PK |
| 13 ch / 2483.5 | 49.55 | 0.00 | 0.65 | H | 50.20 | 53.98 | 3.78 | AV |
| 13 ch / 2483.5 | 61.35 | 0.00 | 0.65 | V | 62.00 | 73.98 | 11.98 | PK |
| 13 ch / 2483.5 | 50.06 | 0.00 | 0.65 | V | 50.71 | 53.98 | 3.27 | AV |

Operation Mode: 802.11n (HT40)
 Transfer Rate: 0
 Operating Frequency: 2422 MHz, 2452 MHz
 Channel No.: 03 Ch, 09 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | A.F.+C.L.+D.F -A.G+ATT [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|---------------------------------|-----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0 | 64.74 | 0.00 | 0.22 | H | 64.96 | 73.98 | 9.02 | PK |
| 2390.0 | 50.73 | 0.00 | 0.22 | H | 50.95 | 53.98 | 3.03 | AV |
| 2390.0 | 64.38 | 0.00 | 0.22 | V | 64.60 | 73.98 | 9.38 | PK |
| 2390.0 | 50.16 | 0.00 | 0.22 | V | 50.38 | 53.98 | 3.60 | AV |
| 2483.5 | 65.26 | 0.00 | 0.65 | H | 65.91 | 73.98 | 8.07 | PK |
| 2483.5 | 49.98 | 0.00 | 0.65 | H | 50.63 | 53.98 | 3.35 | AV |
| 2483.5 | 65.70 | 0.00 | 0.65 | V | 66.35 | 73.98 | 7.63 | PK |
| 2483.5 | 50.20 | 0.00 | 0.65 | V | 50.85 | 53.98 | 3.13 | AV |

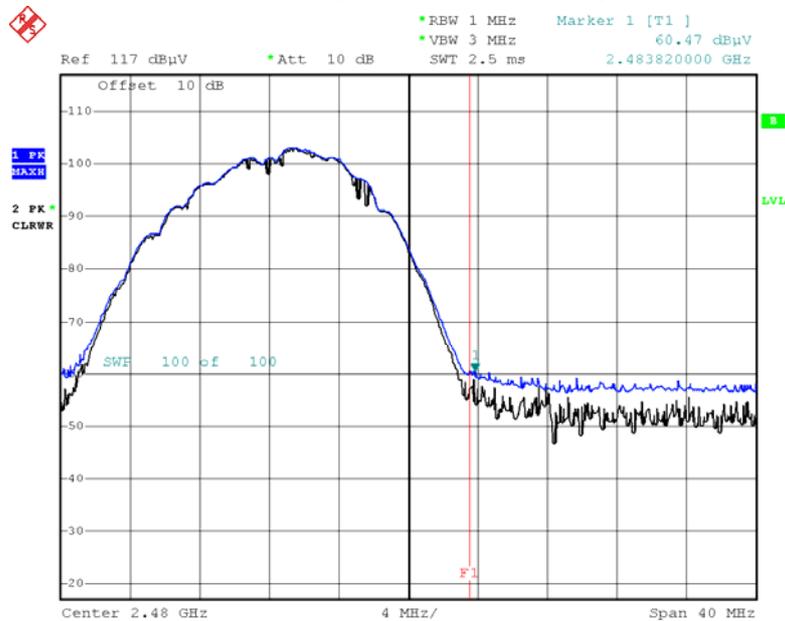
Test Plots

Radiated Restricted Band Edges plot – Average Reading (802.11b Ch.13)



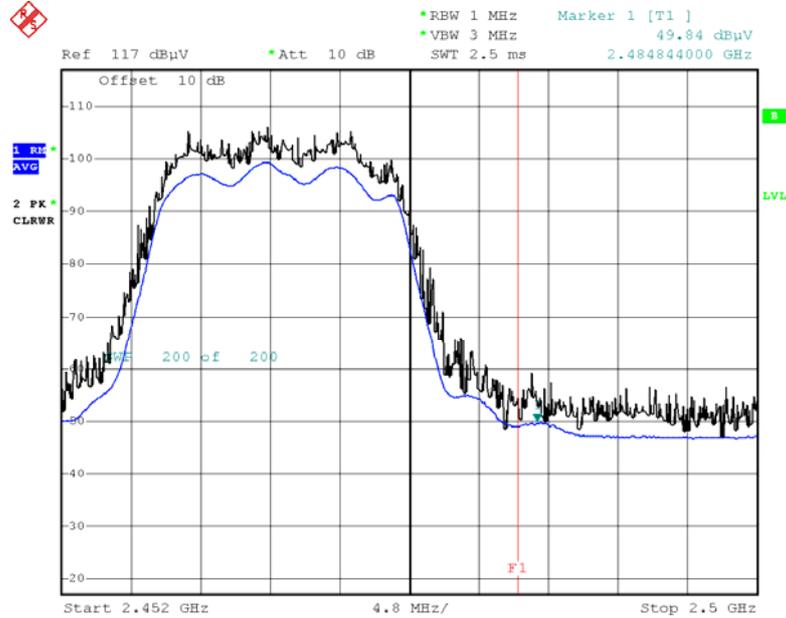
Date: 9.JUL.2019 03:40:32

Radiated Restricted Band Edges plot – Peak Reading (802.11b Ch.13)



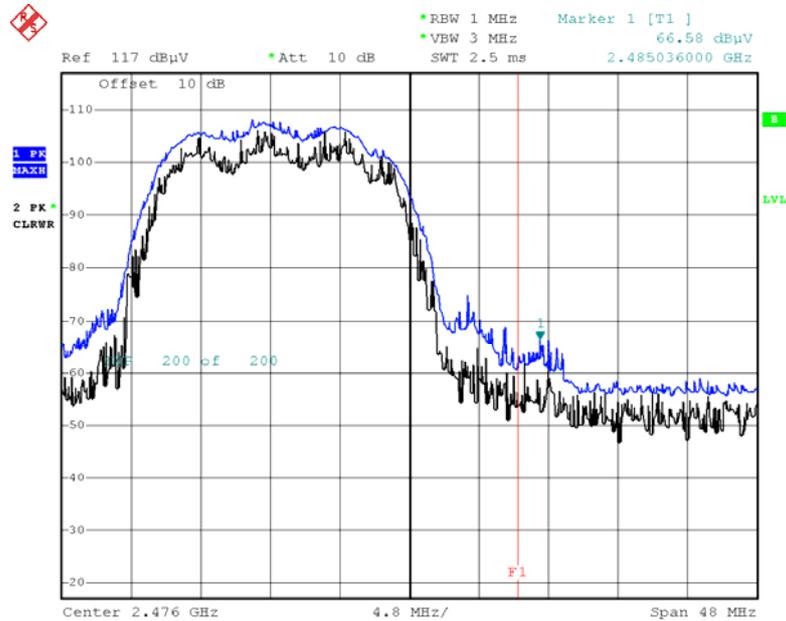
Date: 9.JUL.2019 03:41:08

Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.12)



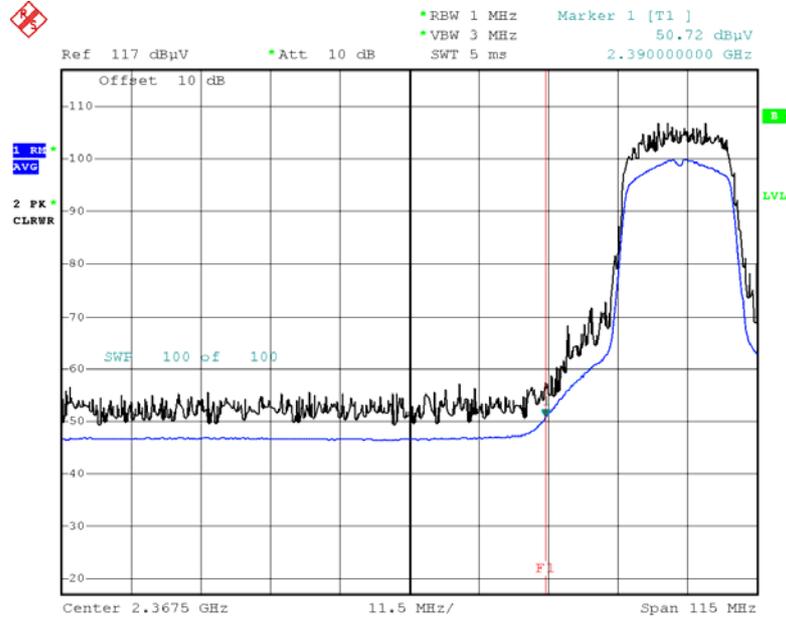
Date: 9.JUL.2019 03:27:07

Radiated Restricted Band Edges plot – Peak Reading (802.11g Ch.12)



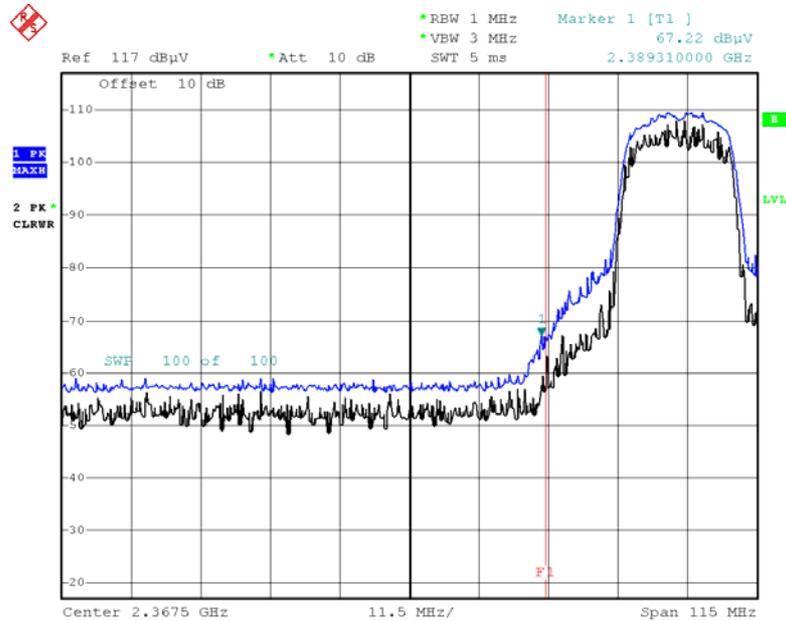
Date: 9.JUL.2019 03:27:40

Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20), Ch.1)



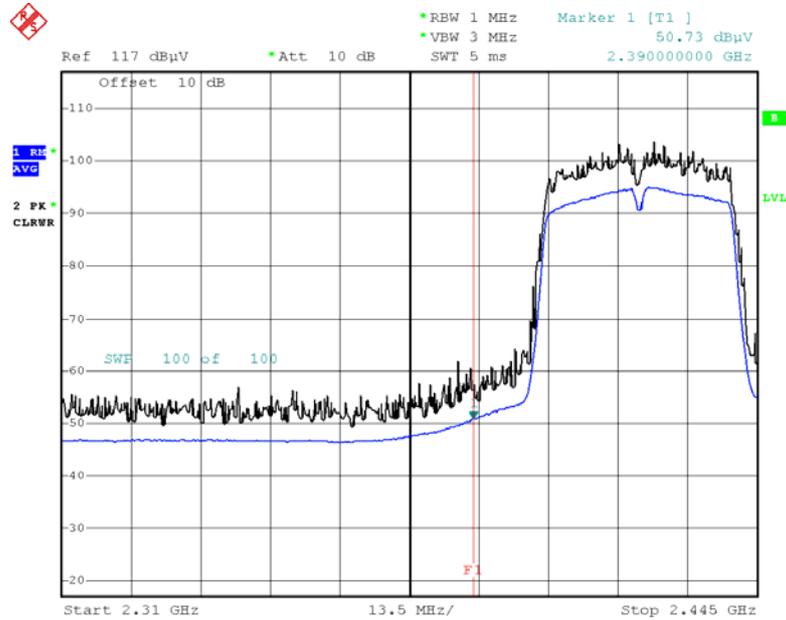
Date: 8.JUL.2019 08:48:06

Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20), Ch.1)



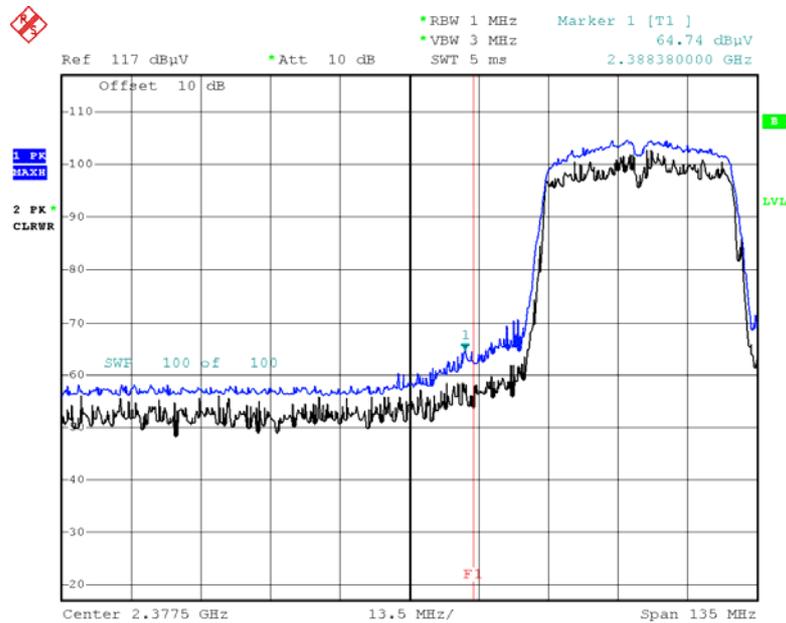
Date: 8.JUL.2019 08:49:09

Radiated Restricted Band Edges plot – Average Reading (802.11n(HT40), Ch.3)



Date: 8.JUL.2019 08:52:44

Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT40), Ch.3)



Date: 8.JUL.2019 08:53:17

Note:

Plot of worst case are only reported.

9.7 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz | dBuV/m | dBm/m | dBm | (H/V) | dBuV/m | dBuV/m | dB |
| No Critical peaks found | | | | | | | |

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz | dBuV/m | dBm/m | dBm | (H/V) | dBuV/m | dBuV/m | dB |
| No Critical peaks found | | | | | | | |

9.9 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

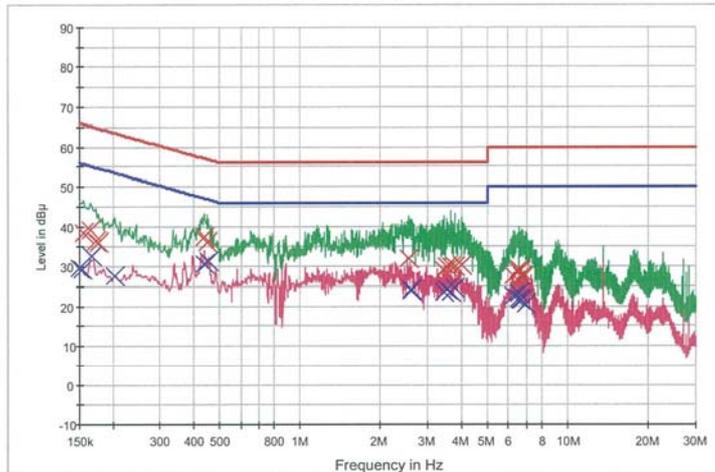
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC94
 Manufacturer: LG Electronics, Inc.
 Test Site: SHIELD ROOM
 Operating Conditions: WiFi 2.4G_L1

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG x Final Result 1-QPK x Final Result 2-CAV

Final Result 1

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.156000 | 38.5 | 9.000 | Off | L1 | 9.6 | 27.2 | 65.7 |
| 0.164000 | 39.1 | 9.000 | Off | L1 | 9.6 | 26.2 | 65.3 |
| 0.172000 | 36.6 | 9.000 | Off | L1 | 9.6 | 28.3 | 64.9 |
| 0.176000 | 36.3 | 9.000 | Off | L1 | 9.6 | 28.4 | 64.7 |
| 0.438000 | 37.4 | 9.000 | Off | L1 | 9.7 | 19.7 | 57.1 |
| 0.450000 | 36.2 | 9.000 | Off | L1 | 9.7 | 20.7 | 56.9 |
| 2.542000 | 32.0 | 9.000 | Off | L1 | 9.8 | 24.0 | 56.0 |
| 3.460000 | 28.8 | 9.000 | Off | L1 | 9.8 | 27.2 | 56.0 |
| 3.538000 | 29.9 | 9.000 | Off | L1 | 9.8 | 26.1 | 56.0 |
| 3.646000 | 29.9 | 9.000 | Off | L1 | 9.8 | 26.1 | 56.0 |
| 3.786000 | 30.1 | 9.000 | Off | L1 | 9.8 | 25.9 | 56.0 |
| 4.018000 | 30.4 | 9.000 | Off | L1 | 9.8 | 25.6 | 56.0 |
| 6.256000 | 27.6 | 9.000 | Off | L1 | 9.9 | 32.4 | 60.0 |
| 6.572000 | 28.6 | 9.000 | Off | L1 | 9.9 | 31.4 | 60.0 |
| 6.576000 | 29.2 | 9.000 | Off | L1 | 9.9 | 30.8 | 60.0 |
| 6.614000 | 28.8 | 9.000 | Off | L1 | 9.9 | 31.2 | 60.0 |
| 6.678000 | 27.7 | 9.000 | Off | L1 | 9.9 | 32.3 | 60.0 |
| 6.806000 | 27.2 | 9.000 | Off | L1 | 9.9 | 32.8 | 60.0 |

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Test

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Final Result 2

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 29.8 | 9.000 | Off | L1 | 9.6 | 26.2 | 56.0 |
| 0.154000 | 29.4 | 9.000 | Off | L1 | 9.6 | 26.4 | 55.8 |
| 0.166000 | 32.8 | 9.000 | Off | L1 | 9.6 | 22.3 | 55.2 |
| 0.204000 | 27.5 | 9.000 | Off | L1 | 9.7 | 25.9 | 53.4 |
| 0.438000 | 30.7 | 9.000 | Off | L1 | 9.7 | 16.4 | 47.1 |
| 0.456000 | 31.3 | 9.000 | Off | L1 | 9.7 | 15.4 | 46.8 |
| 2.614000 | 24.1 | 9.000 | Off | L1 | 9.8 | 21.9 | 46.0 |
| 2.618000 | 23.9 | 9.000 | Off | L1 | 9.8 | 22.1 | 46.0 |
| 3.460000 | 23.7 | 9.000 | Off | L1 | 9.8 | 22.3 | 46.0 |
| 3.538000 | 24.1 | 9.000 | Off | L1 | 9.8 | 21.9 | 46.0 |
| 3.646000 | 23.5 | 9.000 | Off | L1 | 9.8 | 22.5 | 46.0 |
| 3.786000 | 24.5 | 9.000 | Off | L1 | 9.8 | 21.5 | 46.0 |
| 6.256000 | 22.7 | 9.000 | Off | L1 | 9.9 | 27.3 | 50.0 |
| 6.570000 | 21.8 | 9.000 | Off | L1 | 9.9 | 28.2 | 50.0 |
| 6.576000 | 23.3 | 9.000 | Off | L1 | 9.9 | 26.7 | 50.0 |
| 6.614000 | 21.4 | 9.000 | Off | L1 | 9.9 | 28.6 | 50.0 |
| 6.678000 | 21.7 | 9.000 | Off | L1 | 9.9 | 28.3 | 50.0 |
| 6.920000 | 20.5 | 9.000 | Off | L1 | 9.9 | 29.5 | 50.0 |

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Conducted Emissions (Line 2)

Test

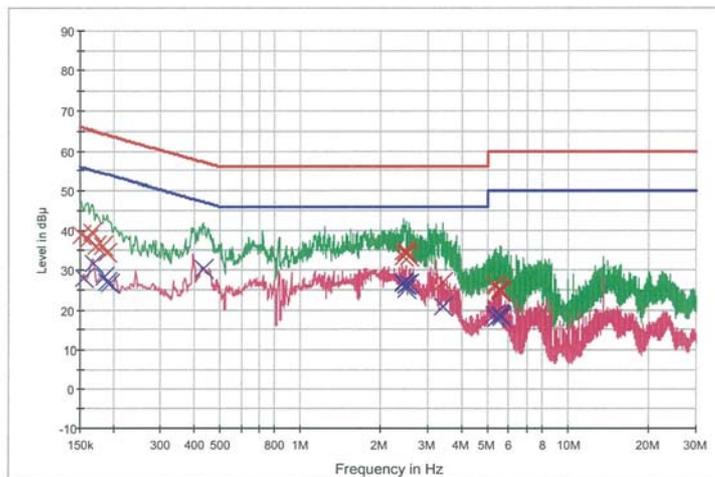
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC94
 Manufacturer: LG Electronics, Inc.
 Test Site: SHIELD ROOM
 Operating Conditions: WiFi 2.4G_N

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000 | 39.0 | 9.000 | Off | N | 9.6 | 26.9 | 65.9 |
| 0.160000 | 37.9 | 9.000 | Off | N | 9.6 | 27.6 | 65.5 |
| 0.166000 | 39.7 | 9.000 | Off | N | 9.6 | 25.5 | 65.2 |
| 0.172000 | 36.1 | 9.000 | Off | N | 9.6 | 28.8 | 64.9 |
| 0.184000 | 36.2 | 9.000 | Off | N | 9.6 | 28.1 | 64.3 |
| 0.190000 | 34.4 | 9.000 | Off | N | 9.6 | 29.6 | 64.0 |
| 2.432000 | 33.6 | 9.000 | Off | N | 9.7 | 22.4 | 56.0 |
| 2.436000 | 34.9 | 9.000 | Off | N | 9.7 | 21.1 | 56.0 |
| 2.474000 | 34.6 | 9.000 | Off | N | 9.7 | 21.4 | 56.0 |
| 2.478000 | 34.4 | 9.000 | Off | N | 9.7 | 21.6 | 56.0 |
| 2.532000 | 33.5 | 9.000 | Off | N | 9.7 | 22.5 | 56.0 |
| 3.418000 | 27.0 | 9.000 | Off | N | 9.8 | 29.0 | 56.0 |
| 5.336000 | 26.3 | 9.000 | Off | N | 9.8 | 33.7 | 60.0 |
| 5.352000 | 25.9 | 9.000 | Off | N | 9.8 | 34.1 | 60.0 |
| 5.542000 | 24.5 | 9.000 | Off | N | 9.9 | 35.5 | 60.0 |
| 5.546000 | 25.0 | 9.000 | Off | N | 9.9 | 35.0 | 60.0 |
| 5.564000 | 25.3 | 9.000 | Off | N | 9.9 | 34.7 | 60.0 |
| 5.642000 | 24.7 | 9.000 | Off | N | 9.9 | 35.3 | 60.0 |

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Test

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Final Result 2

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.156000 | 27.9 | 9.000 | Off | N | 9.6 | 27.8 | 55.7 |
| 0.168000 | 31.7 | 9.000 | Off | N | 9.6 | 23.3 | 55.1 |
| 0.186000 | 28.3 | 9.000 | Off | N | 9.6 | 25.9 | 54.2 |
| 0.190000 | 27.0 | 9.000 | Off | N | 9.6 | 27.0 | 54.0 |
| 0.194000 | 26.7 | 9.000 | Off | N | 9.6 | 27.2 | 53.9 |
| 0.434000 | 30.3 | 9.000 | Off | N | 9.6 | 16.9 | 47.2 |
| 2.430000 | 26.9 | 9.000 | Off | N | 9.7 | 19.1 | 46.0 |
| 2.436000 | 26.5 | 9.000 | Off | N | 9.7 | 19.5 | 46.0 |
| 2.474000 | 25.4 | 9.000 | Off | N | 9.7 | 20.6 | 46.0 |
| 2.478000 | 26.3 | 9.000 | Off | N | 9.7 | 19.7 | 46.0 |
| 2.532000 | 26.7 | 9.000 | Off | N | 9.7 | 19.3 | 46.0 |
| 3.418000 | 20.8 | 9.000 | Off | N | 9.8 | 25.2 | 46.0 |
| 5.338000 | 18.8 | 9.000 | Off | N | 9.8 | 31.2 | 50.0 |
| 5.352000 | 17.8 | 9.000 | Off | N | 9.8 | 32.2 | 50.0 |
| 5.542000 | 18.4 | 9.000 | Off | N | 9.9 | 31.6 | 50.0 |
| 5.546000 | 18.9 | 9.000 | Off | N | 9.9 | 31.1 | 50.0 |
| 5.598000 | 18.6 | 9.000 | Off | N | 9.9 | 31.4 | 50.0 |
| 5.642000 | 18.0 | 9.000 | Off | N | 9.9 | 32.0 | 50.0 |

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10. LIST OF TEST EQUIPMENT

Conducted Test

| Manufacturer | Model / Equipment | Calibration Date | Calibration Interval | Serial No. |
|-----------------|--|------------------|----------------------|------------|
| Rohde & Schwarz | ENV216 / LISN | 12/12/2018 | Annual | 102245 |
| Rohde & Schwarz | ESCI / Test Receiver | 06/18/2019 | Annual | 100033 |
| ESPAC | SU-642 /Temperature Chamber | 03/12/2019 | Annual | 0093008124 |
| Agilent | N9020A / Signal Analyzer | 05/23/2019 | Annual | MY51110085 |
| Agilent | N9030A / Signal Analyzer | 01/10/2019 | Annual | MY49431210 |
| Agilent | N1911A / Power Meter | 04/10/2019 | Annual | MY45100523 |
| Agilent | N1921A / Power Sensor | 04/10/2019 | Annual | MY52260025 |
| Agilent | 87300B / Directional Coupler | 11/20/2018 | Annual | 3116A03621 |
| Hewlett Packard | 11667B / Power Splitter | 05/24/2019 | Annual | 05001 |
| Hewlett Packard | E3632A / DC Power Supply | 06/18/2019 | Annual | KR75303960 |
| Agilent | 8493C / Attenuator(10 dB) | 07/02/2019 | Annual | 07560 |
| Rohde & Schwarz | EMC32 / Software | N/A | N/A | N/A |
| HCT CO., LTD. | FCC WLAN&BT&BLE Conducted Test Software v3.0 | N/A | N/A | N/A |
| Rohde & Schwarz | CBT / Bluetooth Tester | 05/16/2019 | Annual | 100422 |

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

| Manufacturer | Model / Equipment | Calibration Date | Calibration Interval | Serial No. |
|------------------------|---|------------------|----------------------|-------------|
| Innco system | CO3000 / Controller(Antenna mast) | N/A | N/A | CO3000-4p |
| Innco system | MA4640/800-XP-EP / Antenna Position Tower | N/A | N/A | N/A |
| Emco | 2090 / Controller | N/A | N/A | 060520 |
| Ets | Turn Table | N/A | N/A | N/A |
| Rohde & Schwarz | Loop Antenna | 08/23/2018 | Biennial | 1513-175 |
| Schwarzbeck | VULB 9160 / Hybrid Antenna | 08/09/2018 | Biennial | 3368 |
| Schwarzbeck | BBHA 9120D / Horn Antenna | 11/21/2017 | Biennial | 9120D-1191 |
| Schwarzbeck | BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz) | 12/04/2017 | Biennial | BBHA9170541 |
| Rohde & Schwarz | FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer | 09/19/2018 | Annual | 836650/016 |
| Rohde & Schwarz | FSV40-N / Spectrum Analyzer | 09/19/2018 | Annual | 101068-SZ |
| Wainwright Instruments | WHKX10-2700-3000-18000-40SS / High Pass Filter | 01/03/2019 | Annual | 4 |
| Wainwright Instruments | WHKX8-6090-7000-18000-40SS / High Pass Filter | 01/03/2019 | Annual | 5 |
| Wainwright Instruments | WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter | 06/19/2019 | Annual | 2 |
| Wainwright Instruments | WRCJV5100/5850-40/50-8EEK / Band Reject Filter | 01/03/2019 | Annual | 2 |
| Api tech. | 18B-03 / Attenuator (3 dB) | 06/04/2019 | Annual | 1 |
| WEINSCHL | 56-10 / Attenuator(10 dB) | 10/10/2018 | Annual | 72316 |
| CERNEX | CBLU1183540B-01/Broadband Bench Top LNA | 01/03/2019 | Annual | 28549 |
| CERNEX | CBL06185030 / Broadband Low Noise Amplifier | 01/03/2019 | Annual | 24615 |
| CERNEX | CBL18265035 / Power Amplifier | 01/03/2019 | Annual | 22966 |
| CERNEX | CBL26405040 / Power Amplifier | 06/18/2019 | Annual | 25956 |
| TESCOM | TC-3000C / Bluetooth Tester | 03/26/2019 | Annual | 3000C000276 |

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

11. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

| No. | Description |
|-----|---------------------|
| 1 | HCT-RF-1908-FI007-P |