

FCC RF Test Report Report No: R1809B0118-R1

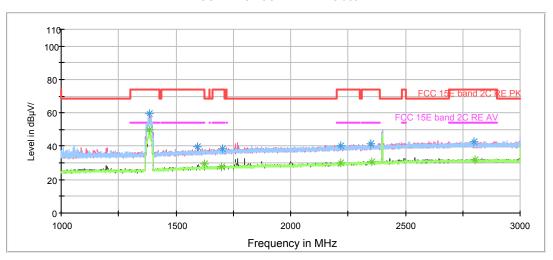
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3746.250000 | 38.5 | 100.0 | V | 184.0 | 29.8 | 8.7 | 15.5 | 54 |
| 4200.000000 | 42.5 | 100.0 | V | 336.0 | 32.3 | 10.2 | 11.5 | 54 |
| 4617.500000 | 41.3 | 200.0 | V | 0.0 | 30.4 | 10.9 | 12.7 | 54 |
| 4811.875000 | 41.5 | 200.0 | V | 0.0 | 30.1 | 11.4 | 12.5 | 54 |
| 7298.125000 | 44.6 | 100.0 | V | 62.0 | 29.3 | 15.3 | 9.4 | 54 |
| 7644.375000 | 45.3 | 100.0 | V | 0.0 | 29.4 | 15.9 | 8.7 | 54 |

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

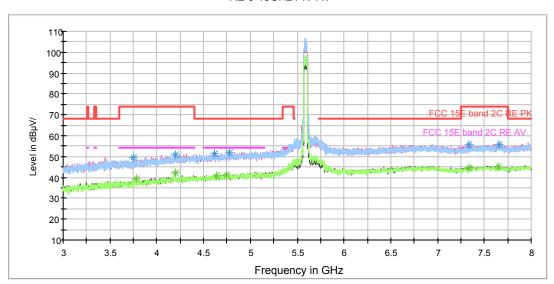
802.11n (HT40) CH118

FCC RE 1G-18GHz PK+AV Class B

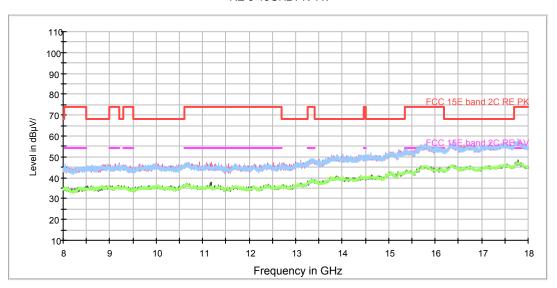


Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz



Reading Correct **Frequency** Azimuth Limit Peak Height Margin **Polarization** value **Factor** (MHz) (dBuV/m) (cm) (deg) (dB) (dBuV/m) (dBuV/m) (dB) 1385.250000 59.6 200.0 V 68.0 69.7 -10.1 14.4 74 4199.375000 51.0 200.0 V 187.0 40.8 10.2 23.0 74 40.2 4615.625000 51.1 100.0 Н 78.0 10.9 17.2 68.3 40.6 11.3 4779.375000 51.9 100.0 Н 186.0 16.4 68.3 7332.500000 55.5 100.0 Н 38.0 40.2 15.3 18.5 74 ٧ 7656.250000 55.7 200.0 264.0 39.7 16.0 18.3 74

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

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 1385.250000 | 49.7 | 200.0 | V | 68.0 | 59.8 | -10.1 | 4.3 | 54 |
| 4200.000000 | 42.3 | 100.0 | V | 335.0 | 32.1 | 10.2 | 11.7 | 54 |
| 4636.875000 | 41.0 | 200.0 | V | 0.0 | 30.0 | 11.0 | 13.0 | 54 |
| 4744.375000 | 41.3 | 100.0 | Н | 67.0 | 30.0 | 11.3 | 12.7 | 54 |
| 7339.375000 | 44.5 | 200.0 | V | 264.0 | 29.2 | 15.3 | 9.5 | 54 |
| 7644.375000 | 45.0 | 100.0 | V | 0.0 | 29.1 | 15.9 | 9.0 | 54 |

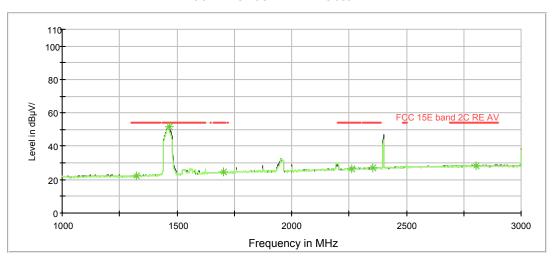
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Report No: R1809B0118-R1

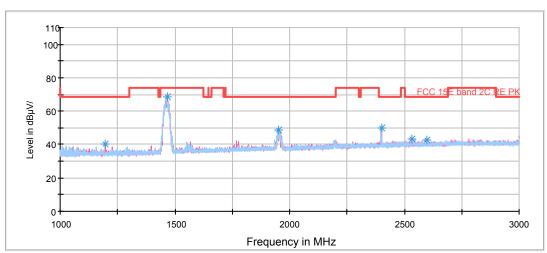


802.11n (HT40) CH134

FCC RE 1G-18GHz PK+AV Class B AV



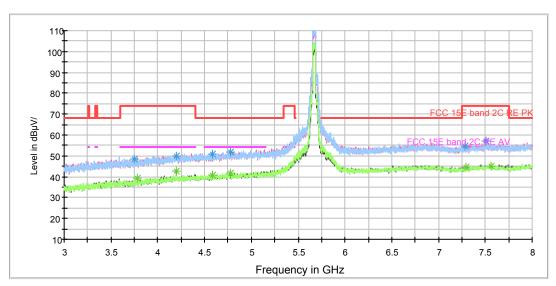
FCC RE 1G-18GHz PK+AV Class B



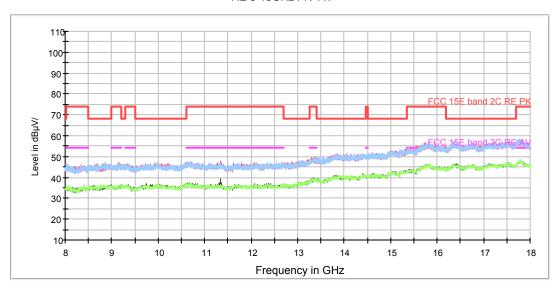
Radiates Emission from 1GHz to 3GHz



RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz



Reading Correct **Frequency** Azimuth Limit Peak Height Margin **Polarization** value **Factor** (MHz) (dBuV/m) (cm) (deg) (dB) (dBuV/m) (dBuV/m) (dB) 3746.250000 48.7 100.0 V 308.0 40.0 8.7 25.3 74 4200.000000 100.0 V 340.0 39.8 10.2 24.0 74 50.0 4581.875000 50.8 100.0 ٧ 264.0 40.0 10.8 17.5 68.3 51.7 40.4 11.3 4773.750000 200.0 Н 253.0 16.6 68.3 7281.250000 54.7 100.0 Н 51.0 39.4 15.3 19.3 74 ٧ 7510.625000 56.9 200.0 93.0 41.3 15.6 17.1 74

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

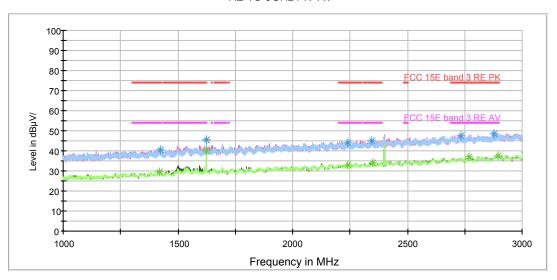
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 1466.250000 | 68.5 | 200.0 | V | 77.0 | 78.2 | -9.7 | -14.5 | 54 |
| 4200.000000 | 42.8 | 100.0 | V | 340.0 | 32.6 | 10.2 | 11.2 | 54 |
| 4583.750000 | 40.6 | 100.0 | V | 73.0 | 29.8 | 10.8 | 13.4 | 54 |
| 4775.000000 | 41.7 | 100.0 | Н | 287.0 | 30.4 | 11.3 | 12.3 | 54 |
| 7298.125000 | 44.5 | 100.0 | Н | 0.0 | 29.2 | 15.3 | 9.5 | 54 |
| 7556.250000 | 45.2 | 100.0 | V | 210.0 | 29.5 | 15.7 | 8.8 | 54 |

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

Report No: R1809B0118-R1

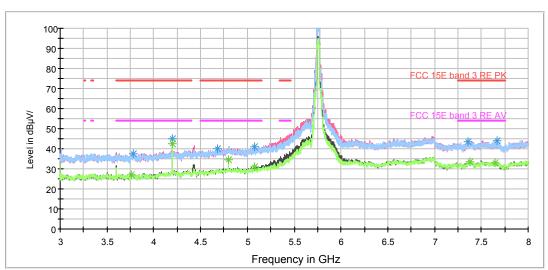
Report No: R1809B0118-R1 802.11n (HT40) CH151

RE 1G-3GHz PK+AV

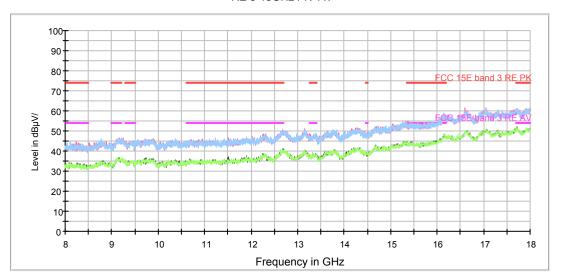


Radiates Emission from 1GHz to 3GHz

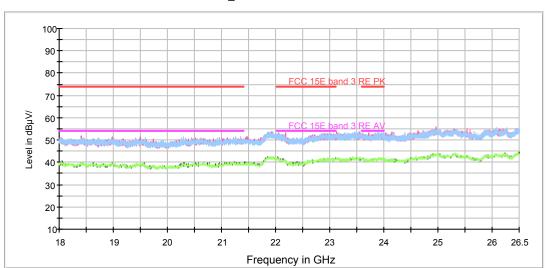
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|
| 3776.875000 | 37.6 | 100.0 | V | 205.0 | 39.4 | -1.8 | 36.4 | 74 | |
| 4200.000000 | 45.0 | 100.0 | Н | 53.0 | 44.6 | 0.4 | 29.0 | 74 | |
| 4680.625000 | 40.2 | 100.0 | V | 357.0 | 39.4 | 0.8 | 33.8 | 74 | |
| 5074.375000 | 40.9 | 100.0 | V | 300.0 | 39.3 | 1.6 | 33.1 | 74 | |
| 7360.625000 | 43.5 | 100.0 | V | 300.0 | 36.5 | 7.0 | 30.5 | 74 | |
| 7665.625000 | 43.8 | 100.0 | Н | 219.0 | 37.0 | 6.8 | 30.2 | 74 | |

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



FCC RF Test Report No: R1809B0118-R1

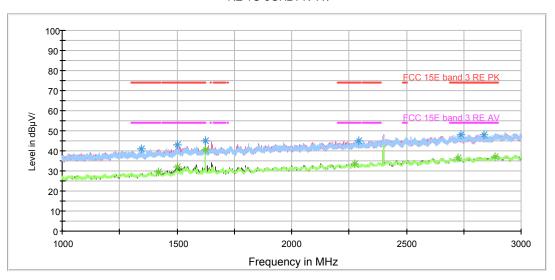
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3755.625000 | 27.2 | 100.0 | V | 205.0 | 28.8 | -1.6 | 26.8 | 54 |
| 4200.000000 | 42.3 | 100.0 | Н | 53.0 | 41.9 | 0.4 | 11.7 | 54 |
| 4800.000000 | 34.7 | 100.0 | Н | 341.0 | 33.4 | 1.3 | 19.3 | 54 |
| 5072.500000 | 31.0 | 100.0 | V | 156.0 | 29.4 | 1.6 | 23.0 | 54 |
| 7375.625000 | 33.3 | 100.0 | Н | 34.0 | 26.2 | 7.1 | 20.7 | 54 |
| 7651.250000 | 33.2 | 100.0 | Н | 171.0 | 26.3 | 6.9 | 20.8 | 54 |

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

802.11n (HT40) CH159

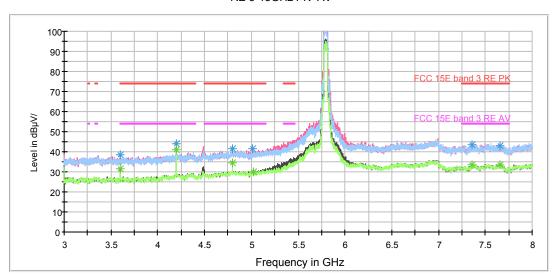
RE 1G-3GHz PK+AV

Report No: R1809B0118-R1

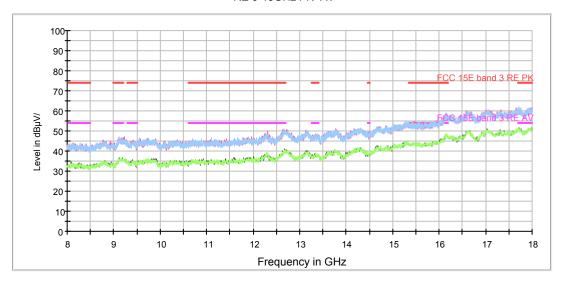


Radiates Emission from 1GHz to 3GHz

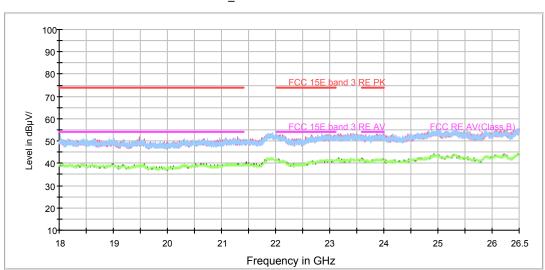
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| 3600.000000 | 38.4 | 100.0 | V | 28.0 | 40.6 | -2.2 | 35.6 | 74 | | |
| 4200.000000 | 43.8 | 100.0 | Н | 51.0 | 43.4 | 0.4 | 30.2 | 74 | | |
| 4800.000000 | 41.6 | 100.0 | Н | 341.0 | 40.3 | 1.3 | 32.4 | 74 | | |
| 5016.250000 | 41.3 | 100.0 | V | 100.0 | 39.7 | 1.6 | 32.7 | 74 | | |
| 7353.750000 | 43.3 | 100.0 | V | 326.0 | 36.3 | 7.0 | 30.7 | 74 | | |
| 7661.250000 | 43.2 | 100.0 | V | 141.0 | 36.4 | 6.8 | 30.8 | 74 | | |

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



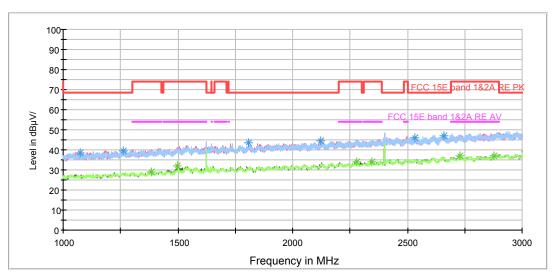
CC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 31.6 | 100.0 | V | 28.0 | 33.8 | -2.2 | 22.4 | 54 |
| 4200.000000 | 40.8 | 100.0 | Н | 51.0 | 40.4 | 0.4 | 13.2 | 54 |
| 4800.000000 | 34.7 | 100.0 | Н | 341.0 | 33.4 | 1.3 | 19.3 | 54 |
| 5020.000000 | 29.9 | 100.0 | V | 206.0 | 28.3 | 1.6 | 24.1 | 54 |
| 7361.250000 | 33.4 | 100.0 | Н | 0.0 | 26.4 | 7.0 | 20.6 | 54 |
| 7661.250000 | 33.3 | 100.0 | V | 141.0 | 26.5 | 6.8 | 20.7 | 54 |

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

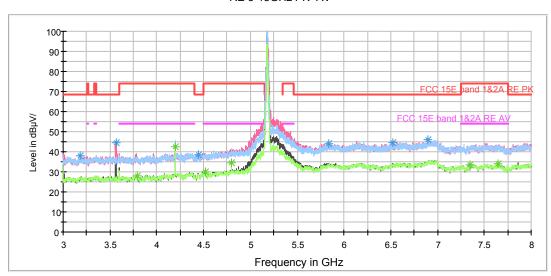
802.11ac (HT20) CH36



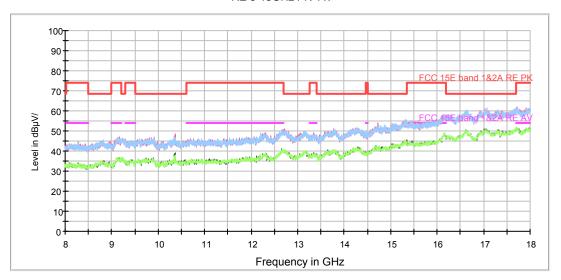


Radiates Emission from 1GHz to 3GHz

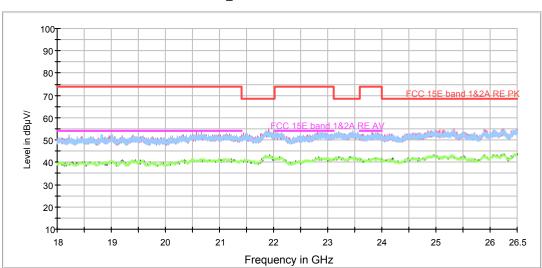
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | |
|--------------------|------------------|-------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|
| 3183.750000 | 37.9 | 100.0 | Н | 110.0 | 40.8 | -2.9 | 30.4 | 68.3 | |
| 3565.625000 | 44.6 | 100.0 | V | 181.0 | 46.7 | -2.1 | 23.7 | 68.3 | |
| 4445.625000 | 38.7 | 100.0 | V | 0.0 | 38.5 | 0.2 | 29.6 | 68.3 | |
| 5834.375000 | 44.2 | 100.0 | V | 206.0 | 39.7 | 4.5 | 24.1 | 68.3 | |
| 6520.000000 | 44.4 | 100.0 | V | 340.0 | 38.9 | 5.5 | 23.9 | 68.3 | |
| 6893.750000 | 45.8 | 100.0 | V | 332.0 | 39.6 | 6.2 | 22.5 | 68.3 | |

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



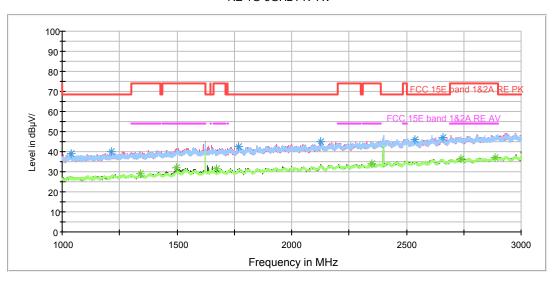
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3788.750000 | 27.8 | 100.0 | Н | 70.0 | 29.5 | -1.7 | 26.2 | 54 |
| 4200.000000 | 42.4 | 100.0 | Н | 54.0 | 42.0 | 0.4 | 11.6 | 54 |
| 4520.000000 | 29.8 | 100.0 | V | 293.0 | 29.3 | 0.5 | 24.2 | 54 |
| 4800.000000 | 34.3 | 100.0 | Н | 0.0 | 33.0 | 1.3 | 19.7 | 54 |
| 7347.500000 | 33.6 | 100.0 | V | 0.0 | 26.6 | 7.0 | 20.4 | 54 |
| 7650.625000 | 33.8 | 100.0 | V | 254.0 | 26.9 | 6.9 | 20.2 | 54 |

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

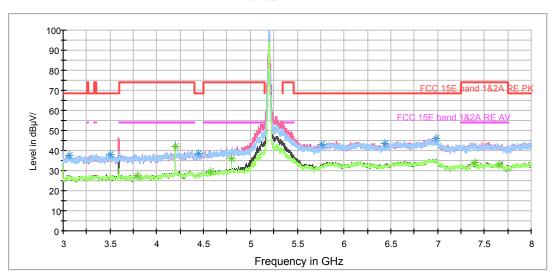
802.11ac (HT20) CH40



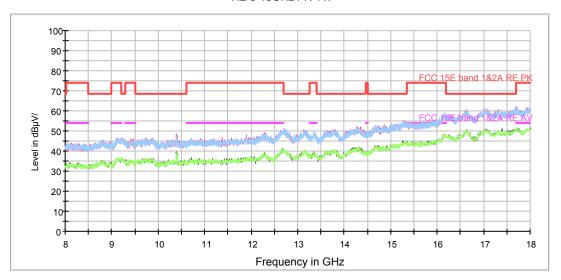


Radiates Emission from 1GHz to 3GHz

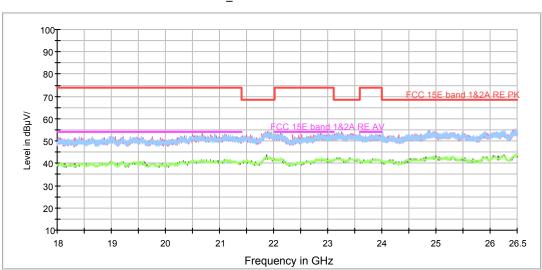
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| 3068.750000 | 37.3 | 100.0 | V | 243.0 | 40.4 | -3.1 | 31.0 | 68.3 | | |
| 3508.125000 | 38.1 | 100.0 | Н | 0.0 | 40.1 | -2.0 | 30.2 | 68.3 | | |
| 4447.500000 | 38.5 | 100.0 | V | 0.0 | 38.3 | 0.2 | 29.8 | 68.3 | | |
| 5760.625000 | 43.1 | 100.0 | V | 55.0 | 39.6 | 3.5 | 25.2 | 68.3 | | |
| 6433.125000 | 43.4 | 100.0 | V | 0.0 | 38.5 | 4.9 | 24.9 | 68.3 | | |
| 6980.000000 | 45.9 | 100.0 | V | 1.0 | 39.5 | 6.4 | 22.4 | 68.3 | | |

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



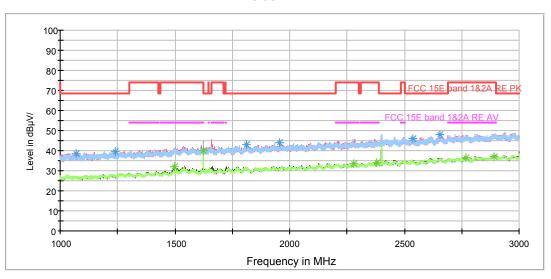
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3792.500000 | 27.7 | 100.0 | Н | 56.0 | 29.4 | -1.7 | 26.3 | 54 |
| 4200.000000 | 42.2 | 100.0 | Н | 48.0 | 41.8 | 0.4 | 11.8 | 54 |
| 4570.625000 | 29.3 | 100.0 | Н | 8.0 | 28.4 | 0.9 | 24.7 | 54 |
| 4800.000000 | 35.9 | 100.0 | Н | 342.0 | 34.6 | 1.3 | 18.1 | 54 |
| 7396.250000 | 33.9 | 100.0 | V | 338.0 | 27.1 | 6.8 | 20.1 | 54 |
| 7655.625000 | 33.2 | 100.0 | V | 282.0 | 26.3 | 6.9 | 20.8 | 54 |

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

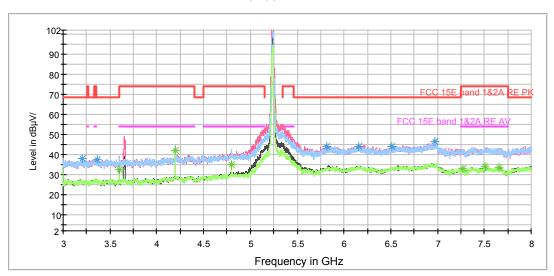
802.11ac (HT20) CH48



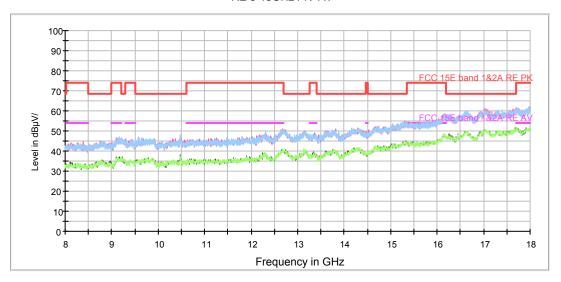


Radiates Emission from 1GHz to 3GHz

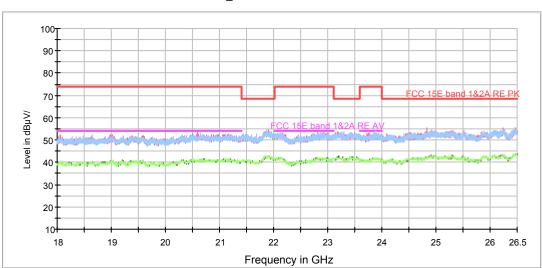
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Tradiates Efficient from 1991/2 to 20.001/2 | | | | | | | | | |
|---|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | |
| 3200.000000 | 38.1 | 100.0 | V | 331.0 | 40.9 | -2.8 | 30.2 | 68.3 | |
| 3360.000000 | 37.5 | 100.0 | Н | 139.0 | 39.8 | -2.3 | 30.8 | 68.3 | |
| 5818.750000 | 44.1 | 100.0 | Н | 114.0 | 39.6 | 4.5 | 24.2 | 68.3 | |
| 6153.125000 | 44.1 | 100.0 | Н | 52.0 | 38.5 | 5.6 | 24.2 | 68.3 | |
| 6513.750000 | 44.0 | 100.0 | V | 292.0 | 38.6 | 5.4 | 24.3 | 68.3 | |
| 6975.625000 | 46.5 | 100.0 | Н | 114.0 | 40.2 | 6.3 | 21.8 | 68.3 | |

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



CC RF Test Report No: R1809B0118-R1

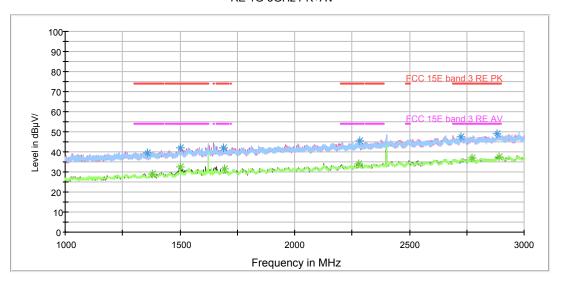
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 32.6 | 100.0 | V | 0.0 | 34.8 | -2.2 | 21.4 | 54 |
| 4200.000000 | 41.9 | 100.0 | Н | 52.0 | 41.5 | 0.4 | 12.1 | 54 |
| 4800.000000 | 35.0 | 100.0 | Н | 210.0 | 33.7 | 1.3 | 19.0 | 54 |
| 7271.875000 | 33.0 | 100.0 | V | 137.0 | 26.0 | 7.0 | 21.0 | 54 |
| 7504.375000 | 33.8 | 100.0 | V | 308.0 | 26.9 | 6.9 | 20.2 | 54 |
| 7661.250000 | 33.4 | 100.0 | V | 355.0 | 26.6 | 6.8 | 20.6 | 54 |

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

802.11ac (HT20) CH149

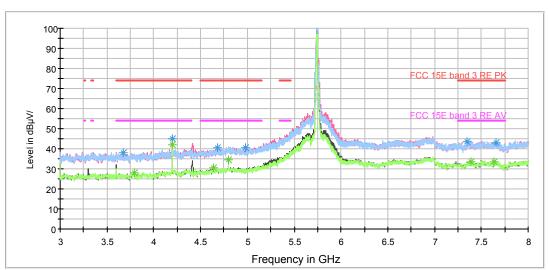
RE 1G-3GHz PK+AV

Report No: R1809B0118-R1

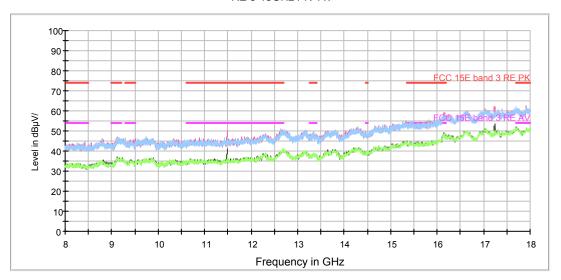


Radiates Emission from 1GHz to 3GHz

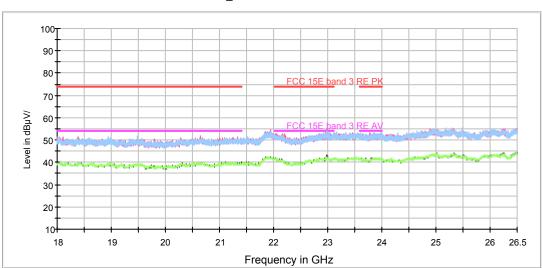
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|
| 3671.875000 | 38.1 | 100.0 | Н | 65.0 | 39.9 | -1.8 | 35.9 | 74 | |
| 4200.000000 | 44.8 | 100.0 | Н | 50.0 | 44.4 | 0.4 | 29.2 | 74 | |
| 4681.875000 | 40.4 | 100.0 | Н | 0.0 | 39.6 | 0.8 | 33.6 | 74 | |
| 4985.000000 | 40.3 | 100.0 | Н | 81.0 | 38.6 | 1.7 | 33.7 | 74 | |
| 7348.750000 | 43.3 | 100.0 | V | 317.0 | 36.3 | 7.0 | 30.7 | 74 | |
| 7662.500000 | 43.0 | 100.0 | Н | 89.0 | 36.2 | 6.8 | 31.0 | 74 | |

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



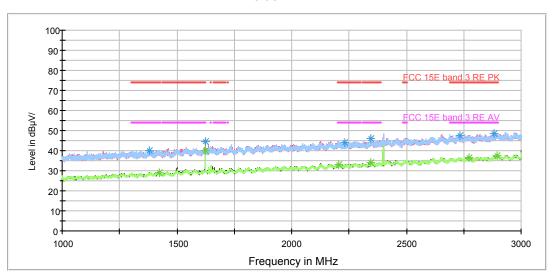
CC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3787.500000 | 27.9 | 100.0 | V | 228.0 | 29.7 | -1.8 | 26.1 | 54 |
| 4200.000000 | 41.9 | 100.0 | Н | 50.0 | 41.5 | 0.4 | 12.1 | 54 |
| 4640.000000 | 30.5 | 100.0 | Н | 305.0 | 29.5 | 1.0 | 23.5 | 54 |
| 4800.000000 | 34.7 | 100.0 | Н | 0.0 | 33.4 | 1.3 | 19.3 | 54 |
| 7387.500000 | 33.7 | 100.0 | V | 180.0 | 26.7 | 7.0 | 20.3 | 54 |
| 7638.750000 | 33.7 | 100.0 | Н | 26.0 | 26.8 | 6.9 | 20.3 | 54 |

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

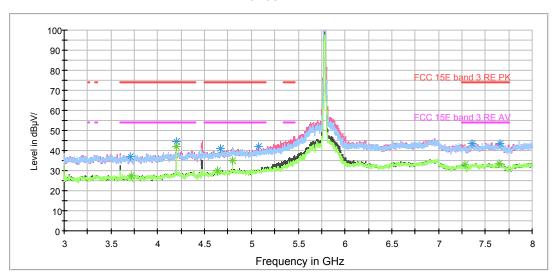
802.11ac (HT20) CH157



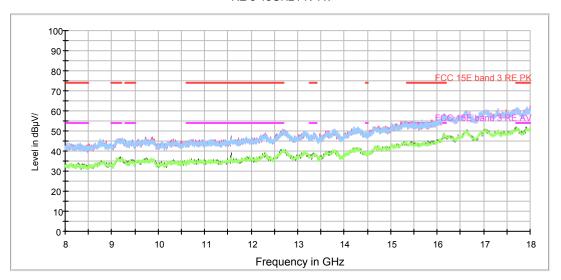


Radiates Emission from 1GHz to 3GHz

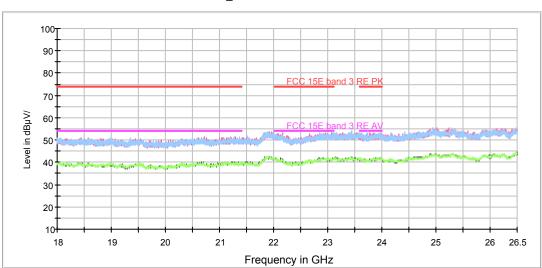
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Tradicio Emission for 10012 to 20.0012 | | | | | | | | | | |
|--|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
| 3707.500000 | 37.2 | 100.0 | Н | 162.0 | 38.8 | -1.6 | 36.8 | 74 | | |
| 4200.000000 | 44.6 | 100.0 | Н | 52.0 | 44.2 | 0.4 | 29.4 | 74 | | |
| 4670.000000 | 40.8 | 100.0 | V | 265.0 | 40.0 | 0.8 | 33.2 | 74 | | |
| 5073.125000 | 42.0 | 100.0 | V | 327.0 | 40.4 | 1.6 | 32.0 | 74 | | |
| 7352.500000 | 43.5 | 100.0 | V | 129.0 | 36.5 | 7.0 | 30.5 | 74 | | |
| 7652.500000 | 43.5 | 100.0 | V | 249.0 | 36.6 | 6.9 | 30.5 | 74 | | |

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



CC RF Test Report No: R1809B0118-R1

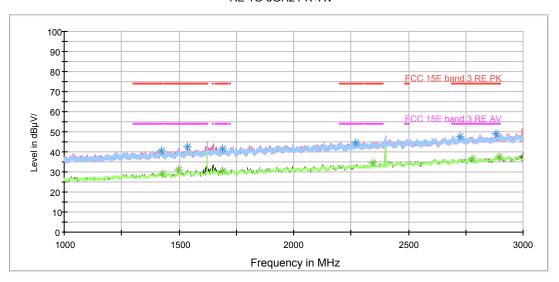
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3714.375000 | 27.4 | 100.0 | V | 336.0 | 29.0 | -1.6 | 26.6 | 54 |
| 4200.000000 | 42.1 | 100.0 | Н | 52.0 | 41.7 | 0.4 | 11.9 | 54 |
| 4639.375000 | 29.9 | 100.0 | V | 217.0 | 28.9 | 1.0 | 24.1 | 54 |
| 4800.000000 | 35.1 | 100.0 | Н | 0.0 | 33.8 | 1.3 | 18.9 | 54 |
| 7285.000000 | 33.2 | 100.0 | Н | 98.0 | 26.2 | 7.0 | 20.8 | 54 |
| 7650.000000 | 33.4 | 100.0 | V | 233.0 | 26.5 | 6.9 | 20.6 | 54 |

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

802.11ac (HT20) CH165

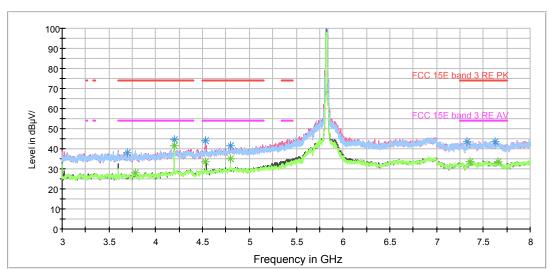
RE 1G-3GHz PK+AV

Report No: R1809B0118-R1

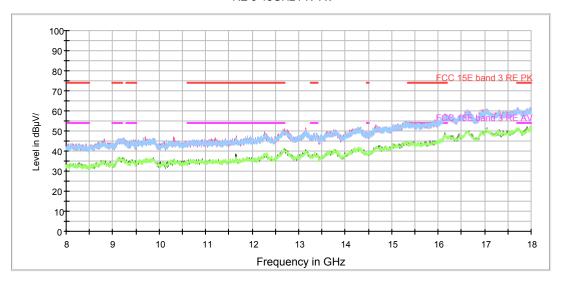


Radiates Emission from 1GHz to 3GHz

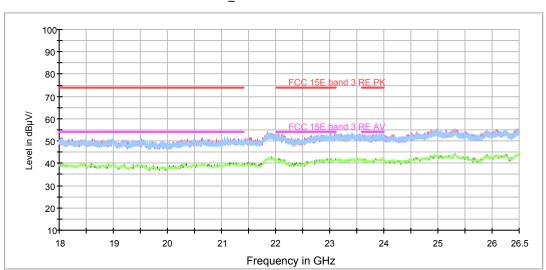
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Tradition Emission from 1001/2 to 20.001/2 | | | | | | | | | | |
|--|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
| 3694.375000 | 37.8 | 100.0 | V | 0.0 | 39.4 | -1.6 | 36.2 | 74 | | |
| 4200.000000 | 44.3 | 100.0 | Н | 50.0 | 43.9 | 0.4 | 29.7 | 74 | | |
| 4535.000000 | 44.2 | 100.0 | V | 277.0 | 43.6 | 0.6 | 29.8 | 74 | | |
| 4800.625000 | 41.5 | 100.0 | Н | 252.0 | 40.2 | 1.3 | 32.5 | 74 | | |
| 7328.750000 | 43.5 | 100.0 | V | 336.0 | 36.5 | 7.0 | 30.5 | 74 | | |
| 7625.625000 | 43.7 | 100.0 | V | 105.0 | 36.9 | 6.8 | 30.3 | 74 | | |

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



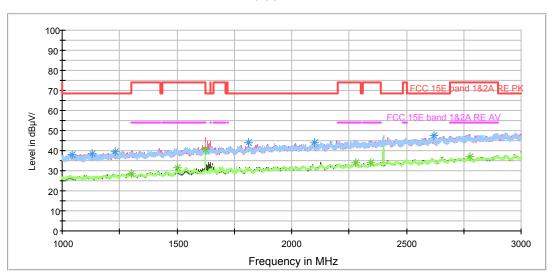
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3778.125000 | 27.8 | 100.0 | V | 336.0 | 29.6 | -1.8 | 26.2 | 54 |
| 4200.000000 | 41.7 | 100.0 | Н | 50.0 | 41.3 | 0.4 | 12.3 | 54 |
| 4533.750000 | 33.7 | 100.0 | V | 97.0 | 33.1 | 0.6 | 20.3 | 54 |
| 4800.000000 | 35.1 | 100.0 | Н | 0.0 | 33.8 | 1.3 | 18.9 | 54 |
| 7356.250000 | 33.4 | 100.0 | V | 352.0 | 26.4 | 7.0 | 20.6 | 54 |
| 7658.125000 | 33.5 | 100.0 | Н | 234.0 | 26.7 | 6.8 | 20.5 | 54 |

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

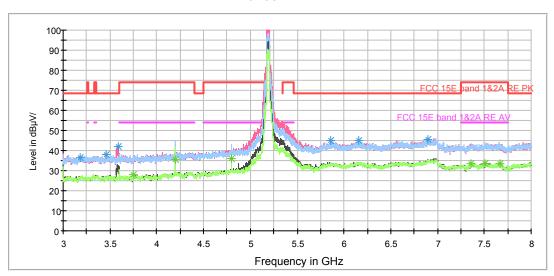
802.11ac (HT40) CH38



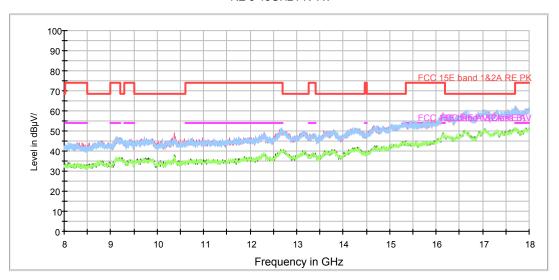


Radiates Emission from 1GHz to 3GHz

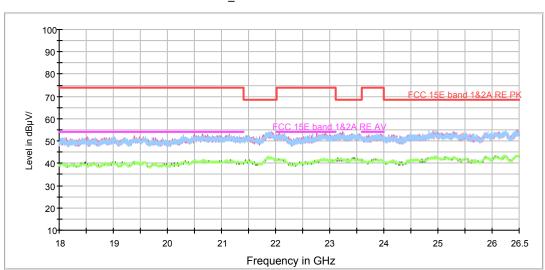
RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| radiates Emission for 100 12 to 20.00 12 | | | | | | | | | | |
|--|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
| 3176.875000 | 36.3 | 100.0 | Н | 0.0 | 39.2 | -2.9 | 32.0 | 68.3 | | |
| 3463.125000 | 38.1 | 100.0 | V | 0.0 | 40.3 | -2.2 | 30.2 | 68.3 | | |
| 3583.750000 | 41.9 | 100.0 | V | 179.0 | 44.2 | -2.3 | 26.4 | 68.3 | | |
| 5856.250000 | 44.8 | 100.0 | Н | 214.0 | 40.0 | 4.8 | 23.5 | 68.3 | | |
| 6157.500000 | 44.8 | 100.0 | V | 245.0 | 39.2 | 5.6 | 23.5 | 68.3 | | |
| 6897.500000 | 45.6 | 100.0 | V | 325.0 | 39.4 | 6.2 | 22.7 | 68.3 | | |

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



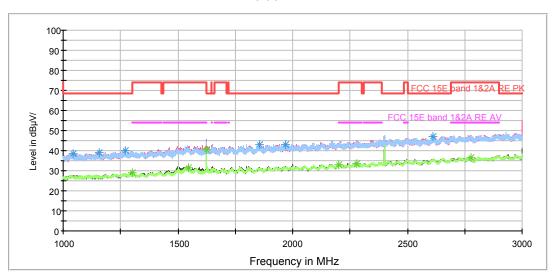
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3749.375000 | 27.8 | 100.0 | V | 146.0 | 29.5 | -1.7 | 26.2 | 54 |
| 4200.625000 | 35.5 | 100.0 | V | 65.0 | 35.1 | 0.4 | 18.5 | 54 |
| 4800.000000 | 35.8 | 100.0 | Н | 352.0 | 34.5 | 1.3 | 18.2 | 54 |
| 7361.250000 | 33.7 | 100.0 | V | 245.0 | 26.7 | 7.0 | 20.3 | 54 |
| 7505.000000 | 33.7 | 100.0 | Н | 156.0 | 26.8 | 6.9 | 20.3 | 54 |
| 7663.125000 | 33.5 | 100.0 | Н | 172.0 | 26.7 | 6.8 | 20.5 | 54 |

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

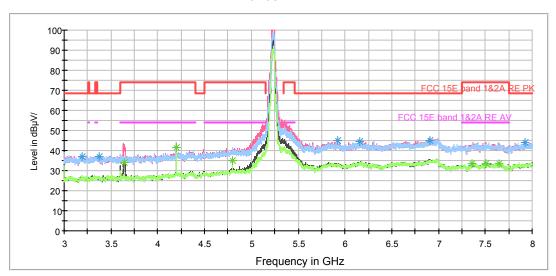
802.11ac (HT40) CH46





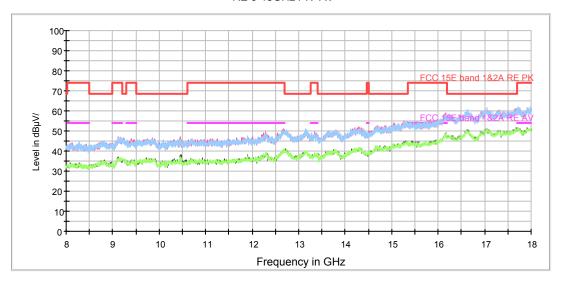
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV

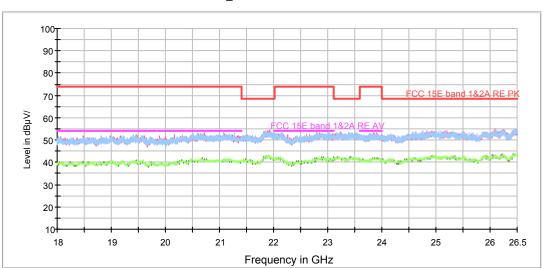




RE 3-18GHz PK+AV



BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Tadiates Emission nom 100/12 to 20.00/12 | | | | | | | | | | | |
|--|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | | |
| 3190.000000 | 37.1 | 100.0 | V | 124.0 | 40.0 | -2.9 | 31.2 | 68.3 | | | |
| 3373.125000 | 37.2 | 100.0 | V | 124.0 | 39.7 | -2.5 | 31.1 | 68.3 | | | |
| 5923.125000 | 44.8 | 100.0 | V | 91.0 | 40.0 | 4.8 | 23.5 | 68.3 | | | |
| 6160.625000 | 44.6 | 100.0 | V | 267.0 | 38.9 | 5.7 | 23.7 | 68.3 | | | |
| 6905.000000 | 45.1 | 100.0 | V | 116.0 | 38.8 | 6.3 | 23.2 | 68.3 | | | |
| 7921.875000 | 44.2 | 100.0 | Н | 86.0 | 37.0 | 7.2 | 24.1 | 68.3 | | | |

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



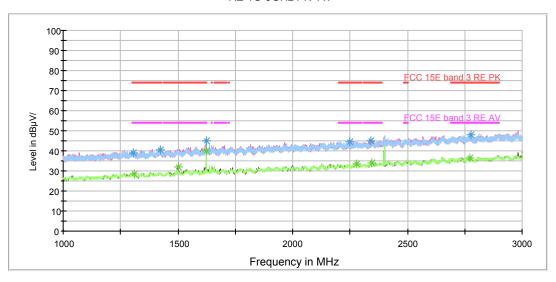
CC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3644.375000 | 34.1 | 100.0 | V | 180.0 | 35.9 | -1.8 | 19.9 | 54 |
| 4200.000000 | 41.6 | 100.0 | Н | 54.0 | 41.2 | 0.4 | 12.4 | 54 |
| 4800.000000 | 35.0 | 100.0 | Н | 352.0 | 33.7 | 1.3 | 19.0 | 54 |
| 7353.750000 | 33.3 | 100.0 | V | 148.0 | 26.3 | 7.0 | 20.7 | 54 |
| 7502.500000 | 33.6 | 100.0 | V | 124.0 | 26.7 | 6.9 | 20.4 | 54 |
| 7650.625000 | 33.4 | 100.0 | V | 345.0 | 26.5 | 6.9 | 20.6 | 54 |

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

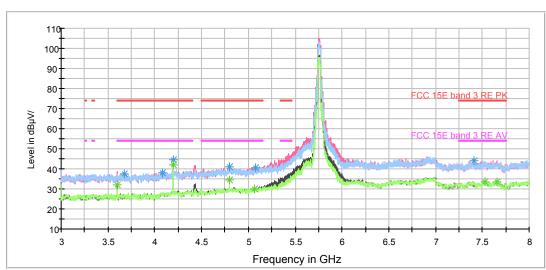
802.11ac (HT40) CH151

RE 1G-3GHz PK+AV

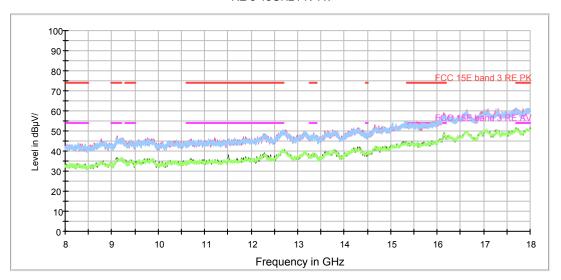


Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV

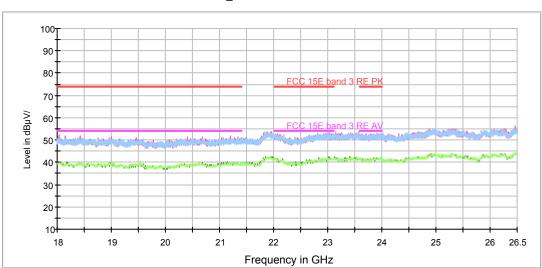


RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|--|
| 3679.375000 | 37.5 | 100.0 | V | 205.0 | 39.3 | -1.8 | 36.5 | 74 | | | |
| 4082.500000 | 37.9 | 100.0 | V | 264.0 | 38.8 | -0.9 | 36.1 | 74 | | | |
| 4200.000000 | 44.4 | 100.0 | Н | 50.0 | 44.0 | 0.4 | 29.6 | 74 | | | |
| 4800.000000 | 41.2 | 100.0 | Н | 0.0 | 39.9 | 1.3 | 32.8 | 74 | | | |
| 5078.750000 | 40.7 | 100.0 | V | 165.0 | 39.1 | 1.6 | 33.3 | 74 | | | |
| 7412.500000 | 43.9 | 100.0 | Н | 91.0 | 37.0 | 6.9 | 30.1 | 74 | | | |

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



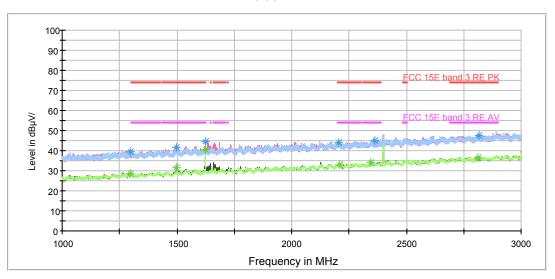
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 32.0 | 100.0 | V | 0.0 | 34.2 | -2.2 | 22.0 | 54 |
| 4200.000000 | 41.9 | 100.0 | Н | 50.0 | 41.5 | 0.4 | 12.1 | 54 |
| 4800.000000 | 34.7 | 100.0 | Н | 0.0 | 33.4 | 1.3 | 19.3 | 54 |
| 5062.500000 | 30.2 | 100.0 | V | 181.0 | 28.6 | 1.6 | 23.8 | 54 |
| 7532.500000 | 33.3 | 100.0 | Н | 138.0 | 26.2 | 7.1 | 20.7 | 54 |
| 7654.375000 | 33.5 | 100.0 | V | 139.0 | 26.6 | 6.9 | 20.5 | 54 |

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

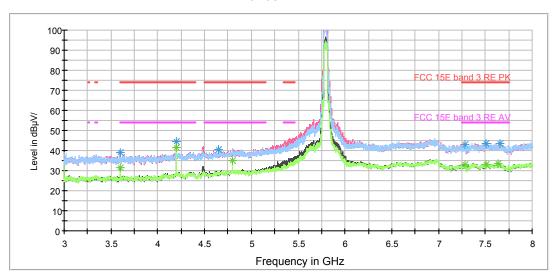
802.11ac (HT40) CH159





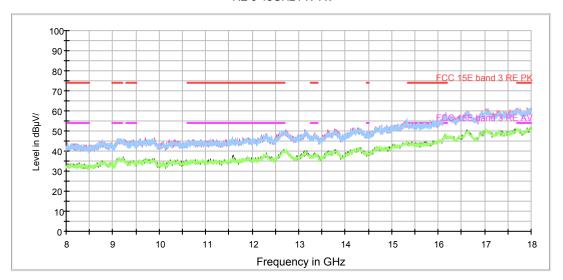
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



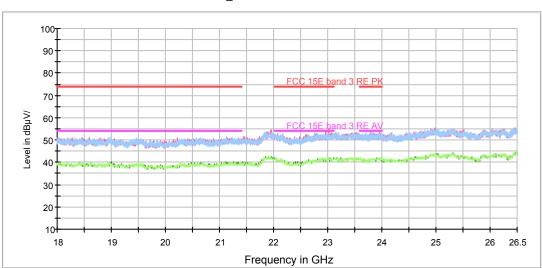
RE 3-18GHz PK+AV

Report No: R1809B0118-R1



Radiates Emission from 8GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|
| 3600.000000 | 39.1 | 100.0 | V | 0.0 | 41.3 | -2.2 | 34.9 | 74 | | |
| 4200.000000 | 44.4 | 100.0 | Н | 53.0 | 44.0 | 0.4 | 29.6 | 74 | | |
| 4653.125000 | 40.7 | 100.0 | V | 265.0 | 39.9 | 0.8 | 33.3 | 74 | | |
| 7279.375000 | 42.8 | 100.0 | Н | 125.0 | 35.8 | 7.0 | 31.2 | 74 | | |
| 7502.500000 | 43.6 | 100.0 | V | 312.0 | 36.7 | 6.9 | 30.4 | 74 | | |
| 7652.500000 | 43.7 | 100.0 | V | 129.0 | 36.8 | 6.9 | 30.3 | 74 | | |

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



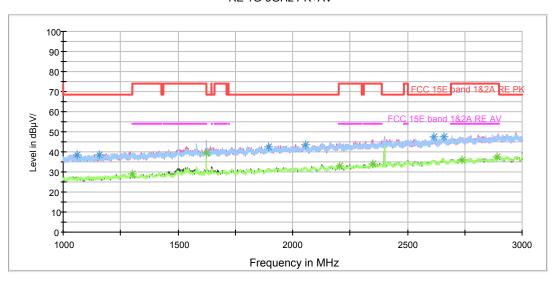
CC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 31.3 | 100.0 | V | 0.0 | 33.5 | -2.2 | 22.7 | 54 |
| 4200.000000 | 41.3 | 100.0 | Н | 53.0 | 40.9 | 0.4 | 12.7 | 54 |
| 4800.000000 | 34.8 | 100.0 | Н | 352.0 | 33.5 | 1.3 | 19.2 | 54 |
| 7278.750000 | 33.0 | 100.0 | V | 88.0 | 26.0 | 7.0 | 21.0 | 54 |
| 7507.500000 | 33.1 | 100.0 | V | 304.0 | 26.2 | 6.9 | 20.9 | 54 |
| 7640.000000 | 33.4 | 100.0 | Н | 180.0 | 26.5 | 6.9 | 20.6 | 54 |

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

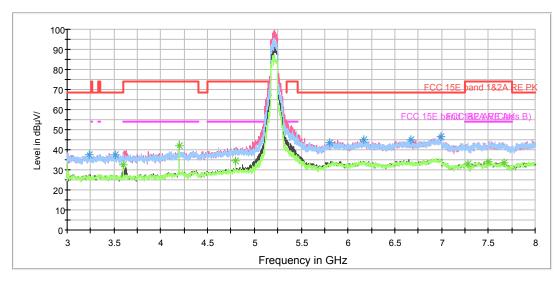
802.11ac (HT80) CH42



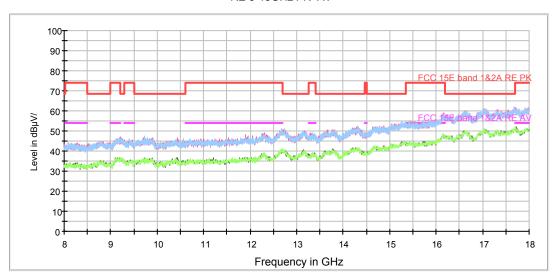


Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV

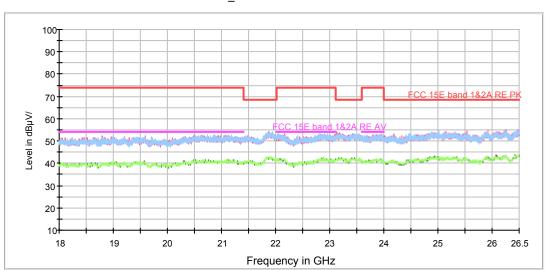


RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

| | Taddates Efficient from 1991/2 to 20.001/2 | | | | | | | | | | |
|--------------------|--|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|--|--|
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | | | |
| 3232.500000 | 37.3 | 100.0 | V | 337.0 | 39.9 | -2.6 | 31.0 | 68.3 | | | |
| 3511.875000 | 37.7 | 100.0 | V | 337.0 | 39.7 | -2.0 | 30.6 | 68.3 | | | |
| 5804.375000 | 43.7 | 100.0 | V | 290.0 | 39.5 | 4.2 | 24.6 | 68.3 | | | |
| 6166.875000 | 45.0 | 100.0 | Н | 68.0 | 39.4 | 5.6 | 23.3 | 68.3 | | | |
| 6669.375000 | 44.9 | 100.0 | Н | 305.0 | 39.4 | 5.5 | 23.4 | 68.3 | | | |
| 6991.250000 | 46.5 | 100.0 | Н | 0.0 | 40.0 | 6.5 | 21.8 | 68.3 | | | |

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



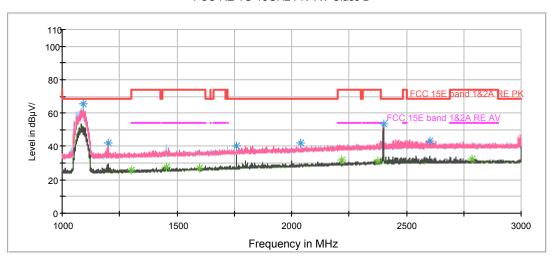
FCC RF Test Report No: R1809B0118-R1

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 32.3 | 100.0 | V | 0.0 | 34.5 | -2.2 | 21.7 | 54 |
| 4200.000000 | 42.1 | 100.0 | Н | 53.0 | 41.7 | 0.4 | 11.9 | 54 |
| 4800.000000 | 34.4 | 100.0 | Н | 288.0 | 33.1 | 1.3 | 19.6 | 54 |
| 7280.625000 | 33.0 | 100.0 | V | 114.0 | 26.0 | 7.0 | 21.0 | 54 |
| 7496.250000 | 33.8 | 100.0 | Н | 180.0 | 27.0 | 6.8 | 20.2 | 54 |
| 7667.500000 | 33.5 | 100.0 | Н | 60.0 | 26.7 | 6.8 | 20.5 | 54 |

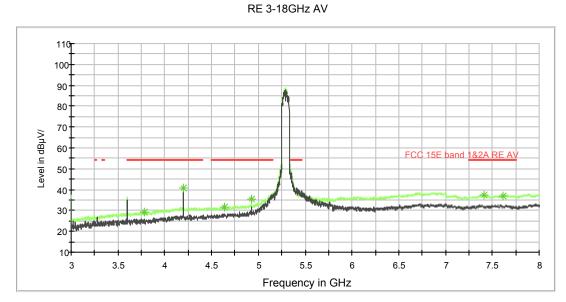
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT80) CH58

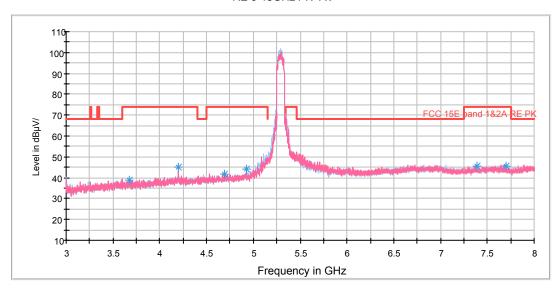
FCC RE 1G-18GHz PK+AV Class B



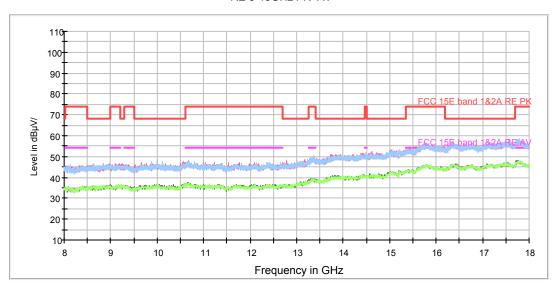
Radiates Emission from 1GHz to 3GHz



RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz



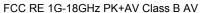
Reading Correct **Frequency** Azimuth Limit Peak Height Margin **Polarization** value **Factor** (MHz) (dBuV/m) (cm) (deg) (dB) (dBuV/m) (dBuV/m) (dB) 3673.125000 39.0 200.0 V 256.0 40.4 -1.4 35.0 74 4200.000000 45.2 100.0 Н 31.0 45.0 0.2 28.8 74 4688.750000 41.7 200.0 ٧ 330.0 40.6 1.1 32.3 74 42.5 74 4923.750000 44.0 100.0 Н 250.0 1.5 30.0 V 7387.500000 45.5 200.0 205.0 40.2 5.3 28.5 74 ٧ 7698.125000 45.8 200.0 320.0 39.7 6.1 28.2 74

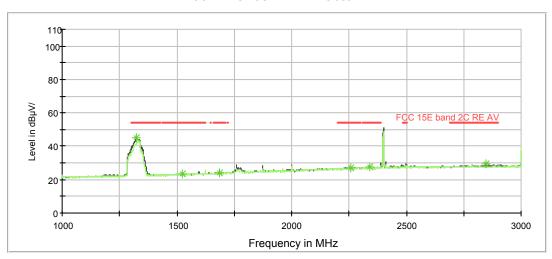
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3781.250000 | 29.3 | 100.0 | Н | 0.0 | 30.5 | -1.2 | 24.7 | 54 |
| 4200.000000 | 40.6 | 100.0 | Н | 36.0 | 40.4 | 0.2 | 13.4 | 54 |
| 4636.875000 | 31.5 | 100.0 | Н | 304.0 | 30.5 | 1.0 | 22.5 | 54 |
| 4923.750000 | 35.5 | 100.0 | Н | 276.0 | 34.0 | 1.5 | 18.5 | 54 |
| 7410.625000 | 37.4 | 100.0 | Н | 340.0 | 32.1 | 5.3 | 16.6 | 54 |
| 7616.250000 | 37.1 | 200.0 | Н | 0.0 | 31.2 | 5.9 | 16.9 | 54 |

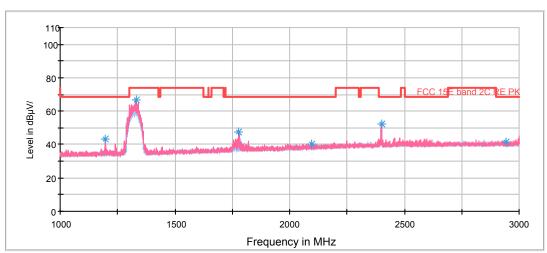
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT80) CH106





FCC RE 1G-18GHz PK+AV Class B

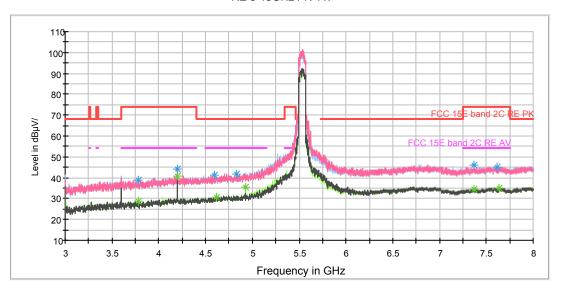


Radiates Emission from 1GHz to 3GHz

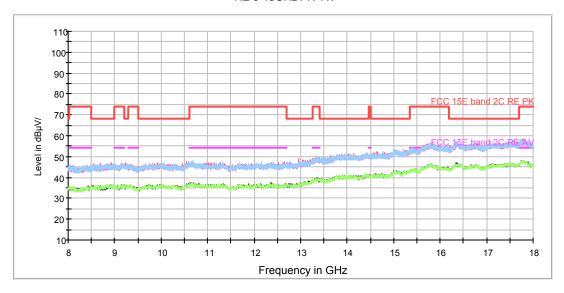
TA-MB-04-006R

FCC RF Test Report No: R1809B0118-R1

RE 3-18GHz PK+AV



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz



Reading Correct Frequency Azimuth Limit Peak Height Margin **Polarization** value **Factor** (MHz) (dBuV/m) (cm) (deg) (dB) (dBuV/m) (dBuV/m) (dB) 3778.125000 38.7 100.0 V 33.0 39.9 -1.2 35.3 74 4200.000000 44.3 200.0 Н 128.0 44.1 0.2 29.7 74 4600.625000 41.1 200.0 V 197.0 40.2 0.9 27.2 68.3 41.6 ٧ 40.2 1.4 4827.500000 200.0 176.0 26.7 68.3 V 7368.125000 46.1 100.0 251.0 40.8 5.3 27.9 74 7612.500000 45.1 200.0 Н 0.0 39.2 5.9 28.9 74

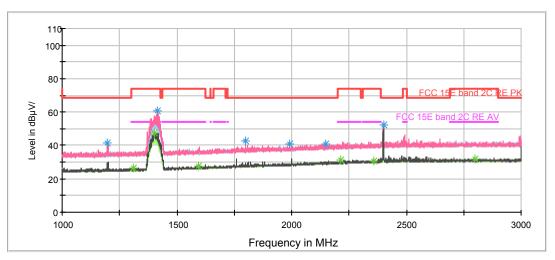
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3778.125000 | 38.7 | 100.0 | V | 33.0 | 39.9 | -1.2 | 15.3 | 54 |
| 4200.000000 | 44.3 | 200.0 | Н | 128.0 | 44.1 | 0.2 | 9.7 | 54 |
| 4600.625000 | 41.1 | 200.0 | V | 197.0 | 40.2 | 0.9 | 12.9 | 54 |
| 4827.500000 | 41.6 | 200.0 | V | 176.0 | 40.2 | 1.4 | 12.4 | 54 |
| 7368.125000 | 46.1 | 100.0 | V | 251.0 | 40.8 | 5.3 | 7.9 | 54 |
| 7612.500000 | 45.1 | 200.0 | Н | 0.0 | 39.2 | 5.9 | 8.9 | 54 |

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

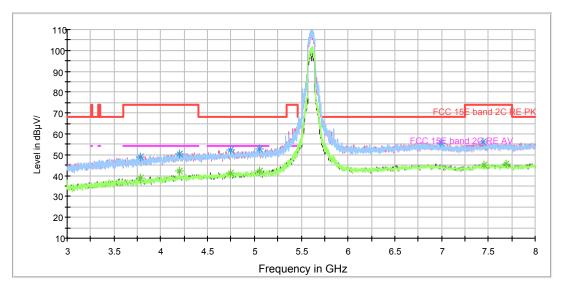
802.11ac (HT80) CH122

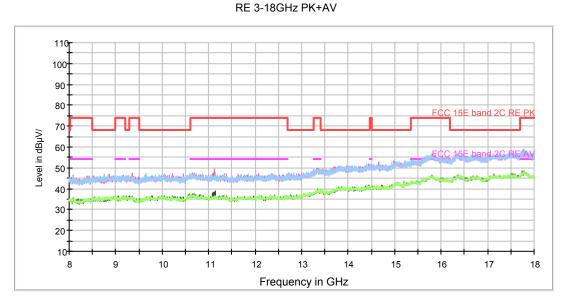
FCC RE 1G-18GHz PK+AV Class B



Radiates Emission from 1GHz to 3GHz







Radiates Emission from 8GHz to 18GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) | |
|--------------------|------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|--|
| 3780.625000 | 49.2 | 100.0 | V | 0.0 | 40.4 | 8.8 | 24.8 | 74 | |
| 4199.375000 | 50.2 | 100.0 | V | 330.0 | 40.0 | 10.2 | 23.8 | 74 | |
| 4741.875000 | 52.1 | 100.0 | Н | 118.0 | 40.8 | 11.3 | 16.2 | 68.3 | |
| 5056.250000 | 52.7 | 200.0 | Н | 229.0 | 41.0 | 11.7 | 15.6 | 68.3 | |
| 6995.625000 | 55.9 | 200.0 | Н | 6.0 | 40.4 | 15.5 | 12.4 | 68.3 | |
| 7441.875000 | 56.0 | 100.0 | Н | 218.0 | 40.6 | 15.4 | 18.0 | 74 | |

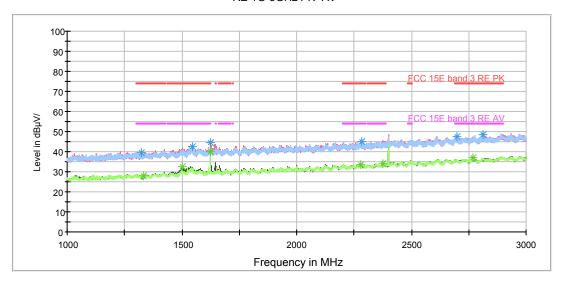
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3779.375000 | 38.9 | 100.0 | Н | 183.0 | 30.1 | 8.8 | 15.1 | 54 |
| 4200.000000 | 42.3 | 100.0 | V | 319.0 | 32.1 | 10.2 | 11.7 | 54 |
| 4745.000000 | 41.4 | 200.0 | Н | 0.0 | 30.1 | 11.3 | 12.6 | 54 |
| 5051.250000 | 42.4 | 100.0 | V | 71.0 | 30.7 | 11.7 | 11.6 | 54 |
| 7455.625000 | 44.9 | 100.0 | V | 135.0 | 29.4 | 15.5 | 9.1 | 54 |
| 7694.375000 | 45.5 | 100.0 | Н | 161.0 | 29.4 | 16.1 | 8.5 | 54 |

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

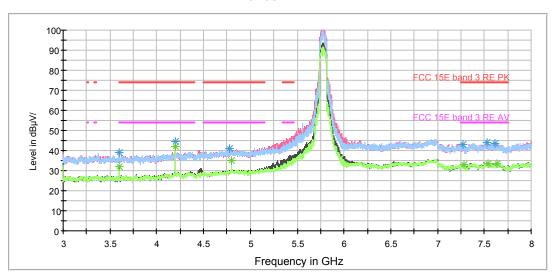
802.11ac (HT80) CH155

RE 1G-3GHz PK+AV



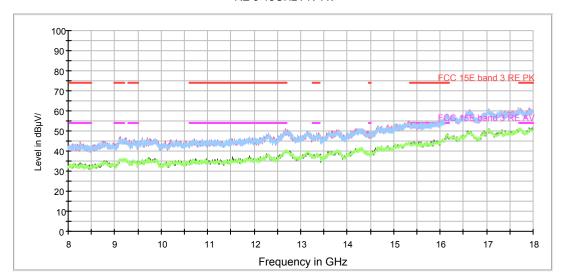
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



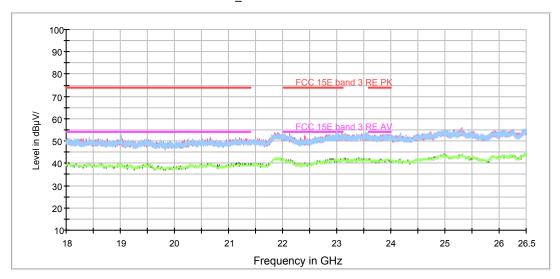


RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



Reading Correct Frequency **Azimuth** Limit Peak Height Margin **Polarization** value **Factor** (MHz) (dBuV/m) (cm) (deg) (dB) (dBuV/m) (dBuV/m) (dB) 3600.000000 39.0 100.0 V 0.0 41.2 -2.2 35.0 74 4200.000000 44.7 100.0 Н 53.0 44.3 0.4 29.3 74 ٧ 4782.500000 41.2 100.0 104.0 40.1 1.1 32.8 74 42.9 ٧ 342.0 7.0 74 7276.875000 100.0 35.9 31.1 V 7526.250000 44.2 100.0 0.0 37.1 7.1 29.8 74 7616.250000 43.7 100.0 Н 280.0 36.9 6.8 30.3 74

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

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 3600.000000 | 31.8 | 100.0 | V | 0.0 | 34.0 | -2.2 | 22.2 | 54 |
| 4200.000000 | 41.9 | 100.0 | Н | 53.0 | 41.5 | 0.4 | 12.1 | 54 |
| 4800.000000 | 34.8 | 100.0 | Н | 29.0 | 33.5 | 1.3 | 19.2 | 54 |
| 7278.750000 | 32.9 | 100.0 | V | 0.0 | 25.9 | 7.0 | 21.1 | 54 |
| 7536.250000 | 33.5 | 100.0 | V | 0.0 | 26.5 | 7.0 | 20.5 | 54 |
| 7640.625000 | 33.5 | 100.0 | V | 176.0 | 26.6 | 6.9 | 20.5 | 54 |

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





5.6. Conducted Emission

Ambient condition

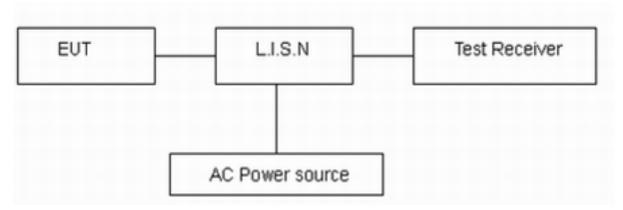
| Temperature | Relative humidity | Pressure | | |
|-------------|-------------------|----------|--|--|
| 23°C ~25°C | 45%~50% | 101.5kPa | | |

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



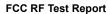
Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

| Frequency (MHz) | Conducted Limits(dBμV) | | | | |
|--|------------------------|-----------------------|--|--|--|
| | Quasi-peak | Average | | | |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46 [*] | | | |
| 0.5 - 5 | 56 | 46 | | | |
| 5 - 30 | 60 | 50 | | | |
| * Decreases with the logarithm of the frequency. | | | | | |

Measurement Uncertainty

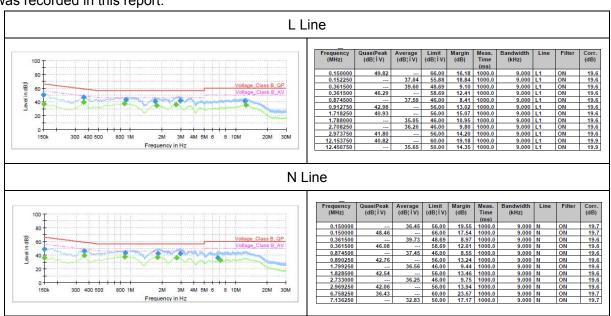
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U = 2.69 dB.





Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ac (HT20), Channel 165 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.







6. Main Test Instruments

| Name | Manufacturer | Туре | Serial Number | Calibration Date | Expiration Date |
|--|--------------|-----------------------|--------------------|---------------------|--------------------|
| Spectrum Analyzer | R&S | FSV40 | 15195-01-00 | 2018-05-20 | 2019-05-19 |
| EMI Test Receiver | R&S | ESCI | 100948 | 2018-05-20 | 2019-05-19 |
| Loop Antenna | SCHWARZBECK | FMZB1519 | 1519-047 | 2017-09-26 | 2019-09-25 |
| TRILOG Broadband Antenna | SCHWARZBECK | VULB 9163 | 9163-201 | 2017-11-18 | 2019-11-17 |
| Double Ridged Waveguide Horn Antenna | R&S | HF907 | 100126 | 2018-07-07 | 2020-07-06 |
| Standard Gain Horn | ETS-Lindgren | 3160-09 | 00102643 | 2018-06-20 | 2020-06-19 |
| Standard Gain Horn | STEATITE | QSH-SL-26-40 -K-15 | 16779 | 2017-07-20 | 2019-07-19 |
| Broadband Horn Antenna | SCHWARZBECK | BBHA 9120D | 430 | 2018-07-07 | 2020-07-06 |
| EMI Test Receiver | R&S | ESR | 101667 | 2018-05-20 | 2019-05-19 |
| LISN | R&S | ENV216 | 101171 | 2016-12-16 | 2019-12-15 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY54420163 | 2017-12-17 | 2018-12-16 |
| RF Cable | Agilent | SMA 15cm | 0001 | 1 | 1 |
| TEMPERATURE CHAMBER | WEISS | VT4002 | 582261194500 10 | 2017-12-17 | 2018-12-16 |
| AV Power Meter | R&S | NRP | 104306 | 2018-05-20 | 2019-05-19 |
| Power Probe | R&S | NRP-Z21 | 104799 | 2018-05-20 | 2019-05-19 |
| DC Power Supply | GWINSTEK | GPS-3030D | GEP882653 | 2018-05-20 | 2020-05-19 |
| Software | R&S | EMC32 | 9.26.0 | 1 | 1 |

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

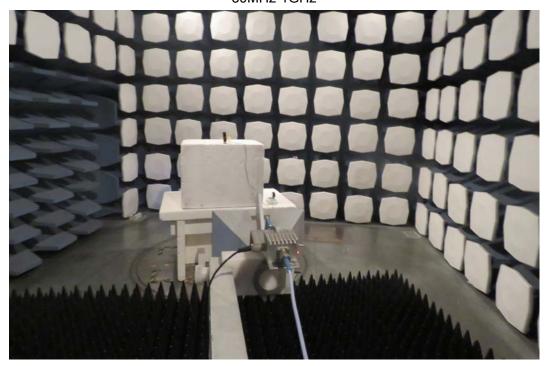


ANNEX A: Test Setup

A.1 Test Setup



30MHz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup



FCC RF Test Report No: R1809B0118-R1

ANNEX B: Product Change Description

Product Change Description

We, Nokia Shanghai Bell Co. Ltd. declare on our sole responsibility that the product,

HA-020W-A

is the variant of the initial certified product,

HA-020W-A

Except the following changes on the latest MODEL: HA-020W-A

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO JAVA changes: NO

Other changes detailed: Yes, Enabled DFS feature in software configuration.

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO

Antenna changes: NO PCB Layout changes: NO

Components on PCB changes: NO

LCD changes: No Speaker changes: NO Camera changes: NO Vibrator changes: NO Bluetooth changes: NO

FM changes: NO
Other changes: NO

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO

Mechanical shell changes: NO Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO

AC Adaptor changes: NO

Earphone changes: NO





Signature:

Print name: Liguo Leng

Date: November 29, 2018

Company: NOKIA Shanghai Bell CO. Ltd.

Liquo Leng

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Tel: 86-21-38434963