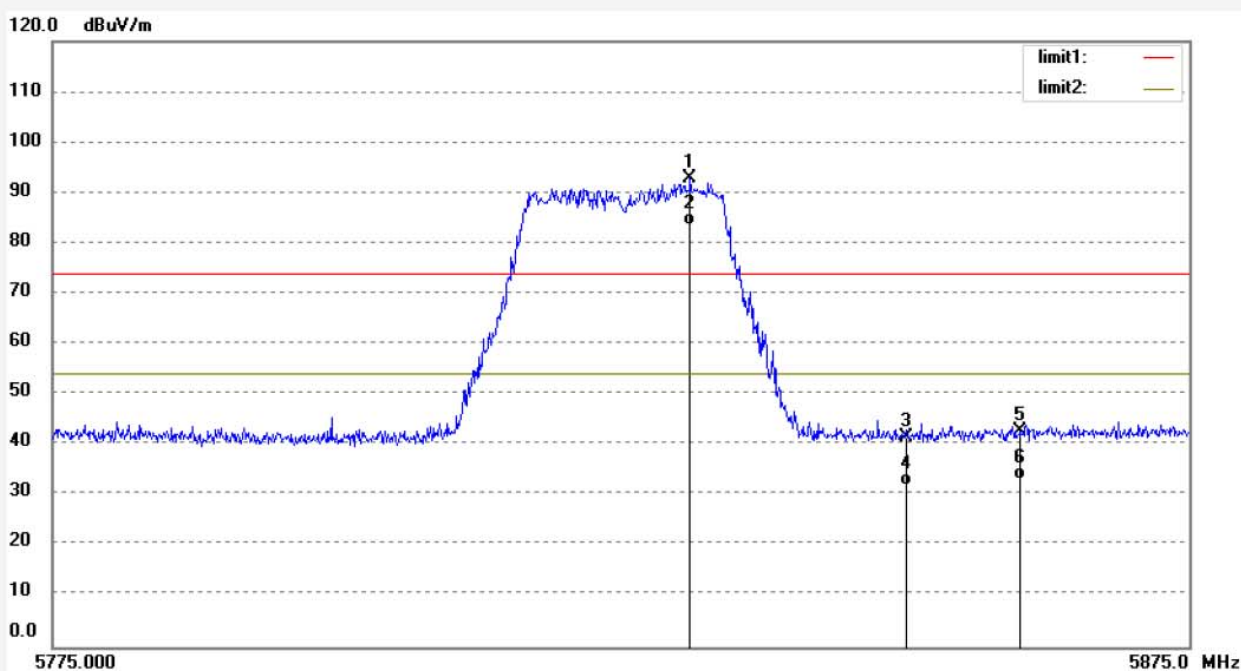


Job No.: star2017 #1004
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 165-N 20MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Vertical
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/13/08
 Engineer Signature: star
 Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5830.901 | 89.96 | 2.90 | 92.86 | | | peak | 150 | 335 | |
| 2 | 5830.901 | 80.57 | 2.90 | 83.47 | | | AVG | 150 | 247 | |
| 3 | 5850.000 | 38.70 | 2.93 | 41.63 | 74.00 | -32.37 | peak | 150 | 188 | |
| 4 | 5850.000 | 29.00 | 2.93 | 31.93 | 54.00 | -22.07 | AVG | 150 | 126 | |
| 5 | 5860.000 | 39.82 | 2.95 | 42.77 | 74.00 | -31.23 | peak | 150 | 124 | |
| 6 | 5860.000 | 30.17 | 2.95 | 33.12 | 54.00 | -20.88 | AVG | 150 | 77 | |

Test mode: 802.11ac 20MHz TX Frequency: 5180MHz, 5240MHz, 5745MHz, 5825MHz

The EUT is tested Radiated Band Edge at each test mode in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots



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Science & Industry Park,Nanshan Shenzhen,P.R.China

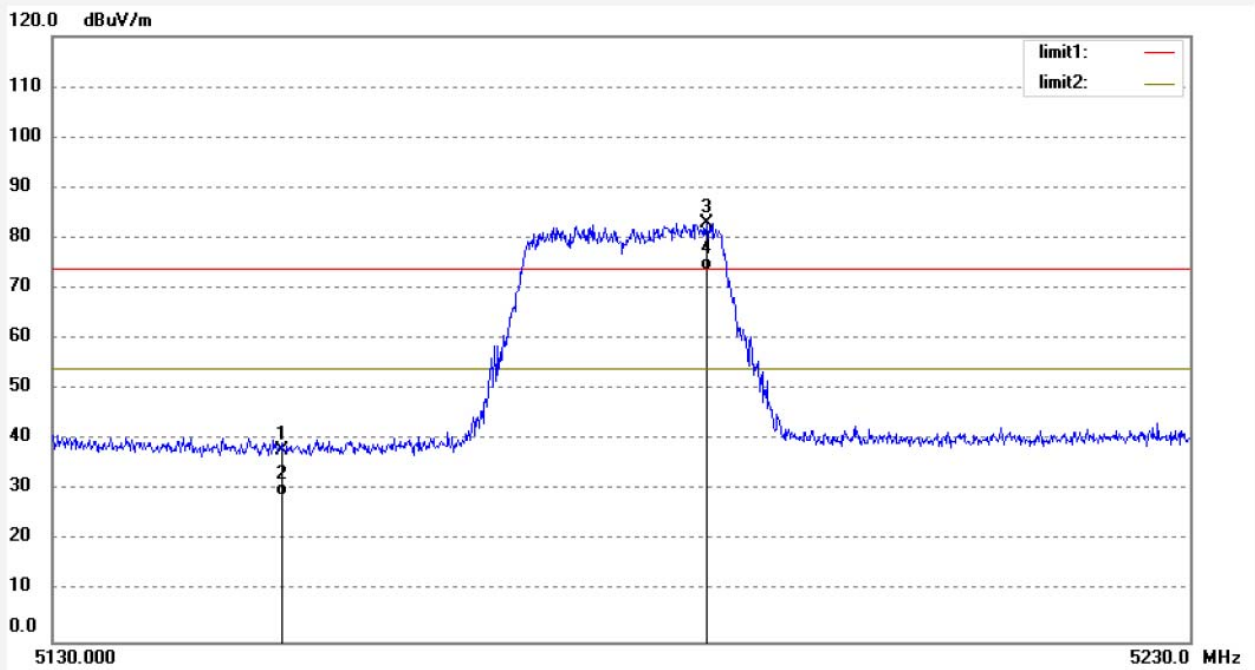
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1006 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/16/20 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 36-AC 20MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

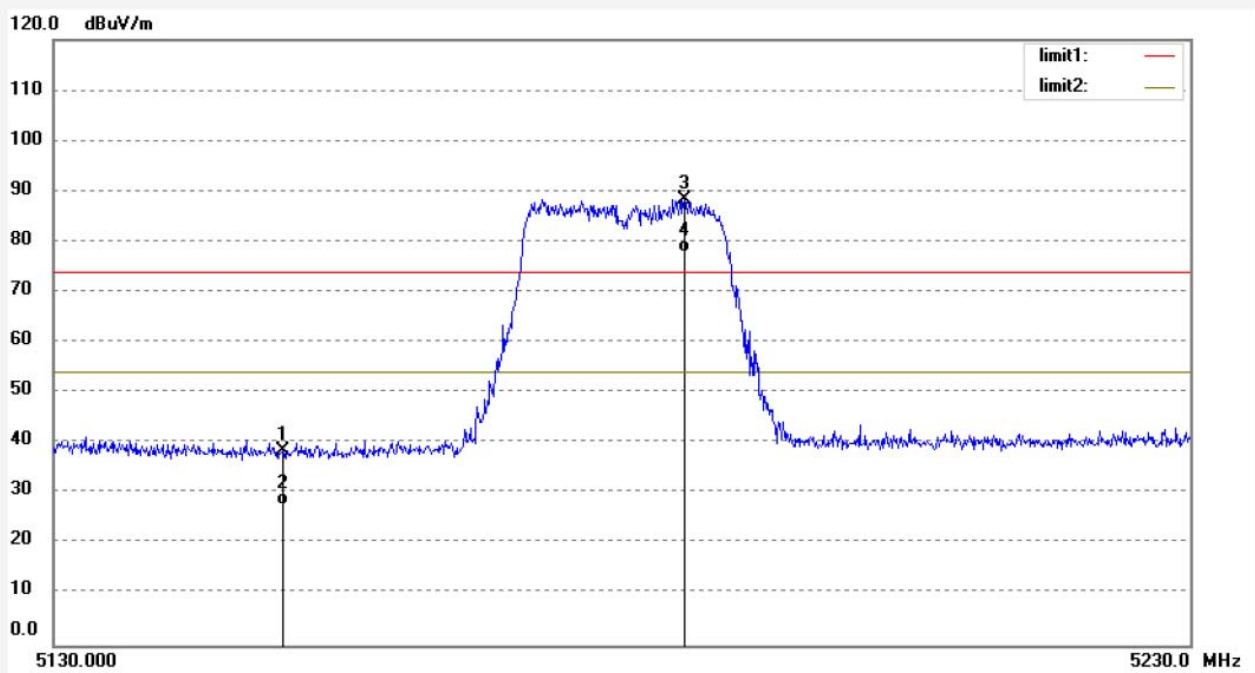
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 35.85 | 2.04 | 37.89 | 74.00 | -36.11 | peak | 200 | 74 | |
| 2 | 5150.000 | 26.91 | 2.04 | 28.95 | 54.00 | -25.05 | AVG | 200 | 142 | |
| 3 | 5187.279 | 80.98 | 2.08 | 83.06 | | | peak | 200 | 139 | |
| 4 | 5187.279 | 71.54 | 2.08 | 73.62 | | | AVG | 200 | 256 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1007 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/17/09 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 36-AC 20MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

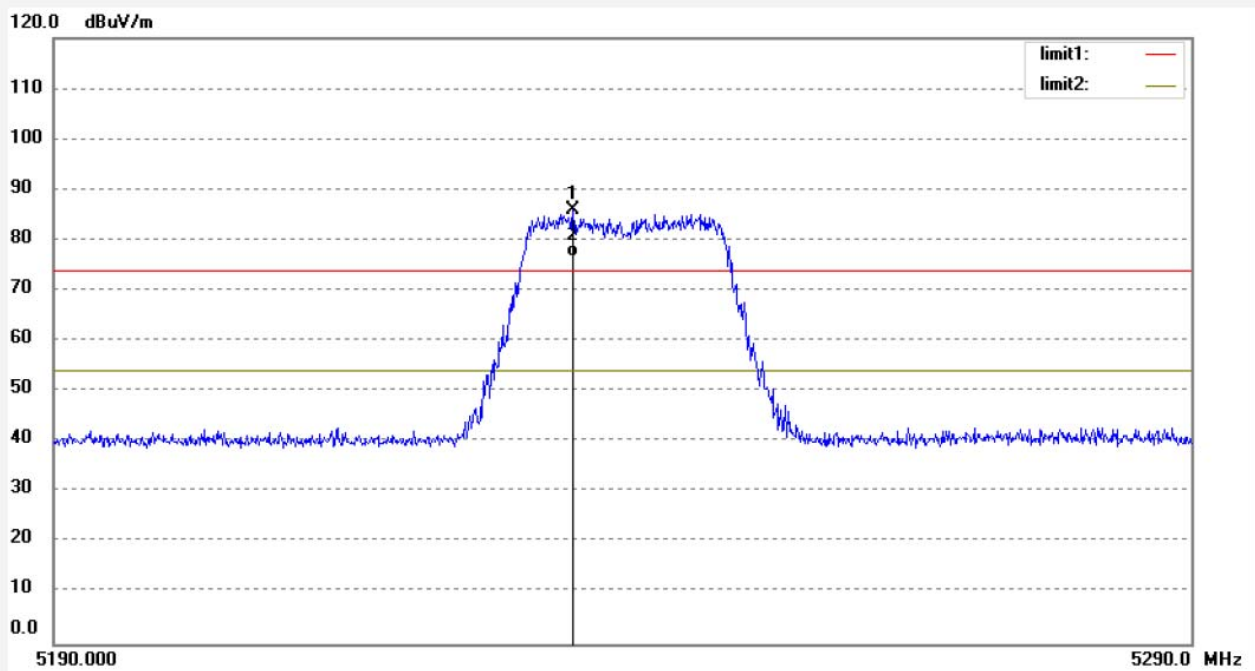
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 36.40 | 2.04 | 38.44 | 74.00 | -35.56 | peak | 150 | 271 | |
| 2 | 5150.000 | 25.77 | 2.04 | 27.81 | 54.00 | -26.19 | AVG | 150 | 125 | |
| 3 | 5185.273 | 86.35 | 2.08 | 88.43 | | | peak | 150 | 245 | |
| 4 | 5185.273 | 75.69 | 2.08 | 77.77 | | | AVG | 150 | 347 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1009 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/19/19 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 48-AC 20MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

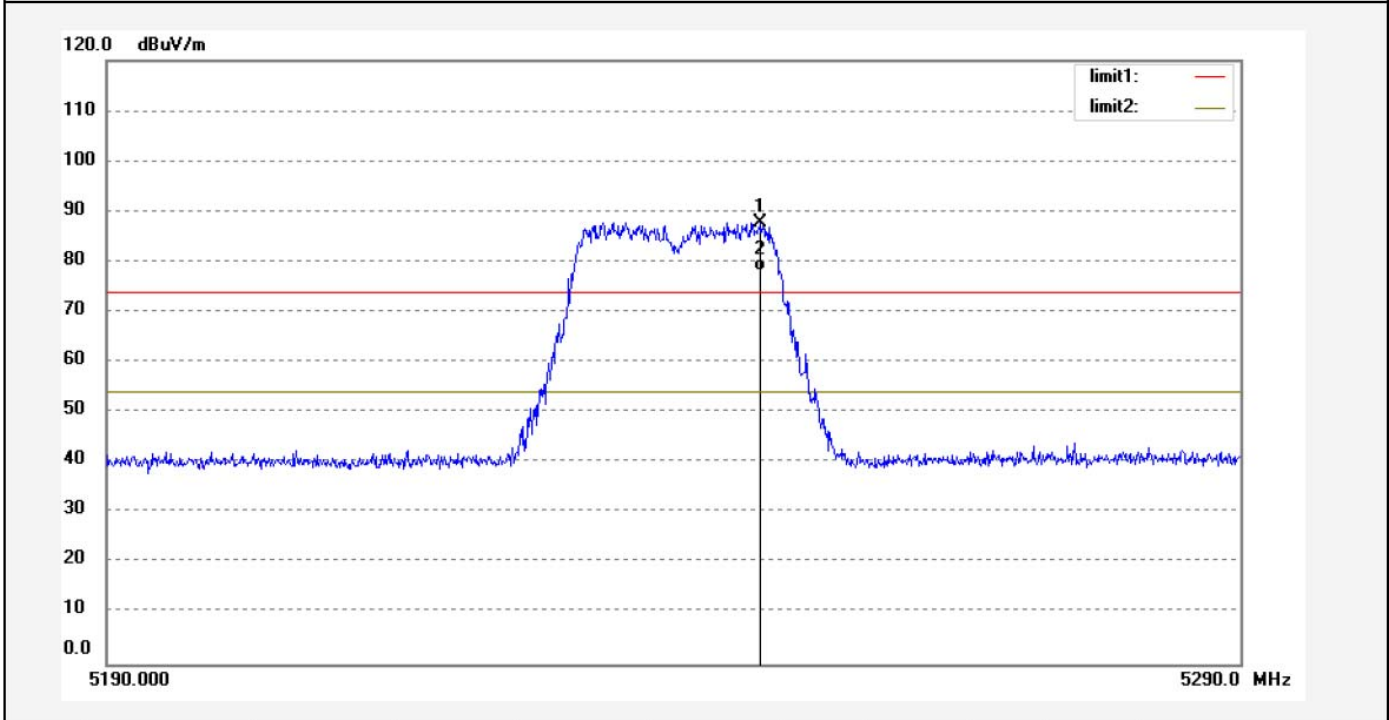
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5235.455 | 83.69 | 2.14 | 85.83 | | | peak | 200 | 327 | |
| 2 | 5235.455 | 74.41 | 2.14 | 76.55 | | | AVG | 200 | 311 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1008 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/18/35 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 48-AC 20MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

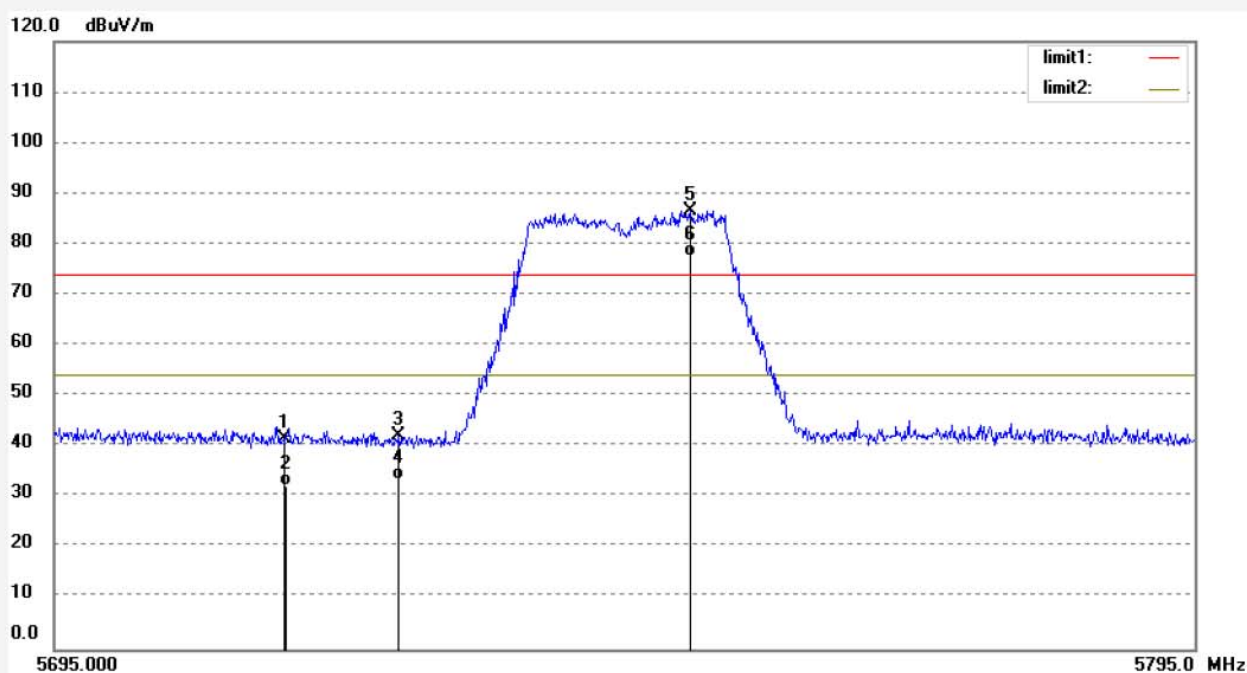
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5247.482 | 85.69 | 2.16 | 87.85 | | | peak | 150 | 272 | |
| 2 | 5247.482 | 76.08 | 2.16 | 78.24 | | | AVG | 150 | 199 | |

| | |
|---|--|
| Job No.: star2017 #1010 Standard: FCC PK Test item: Radiation Test Temp.(C)/Hum.(%) 25 C / 55 % EUT: WiFi module Mode: TX Channel 149-AC 20MHz Model: WPC0GR2231R Manufacturer: Prima | Polarization: Horizontal Power Source: DC 12V Date: 17/10/17/ Time: 9/20/46 Engineer Signature: star Distance: 3m |
|---|--|

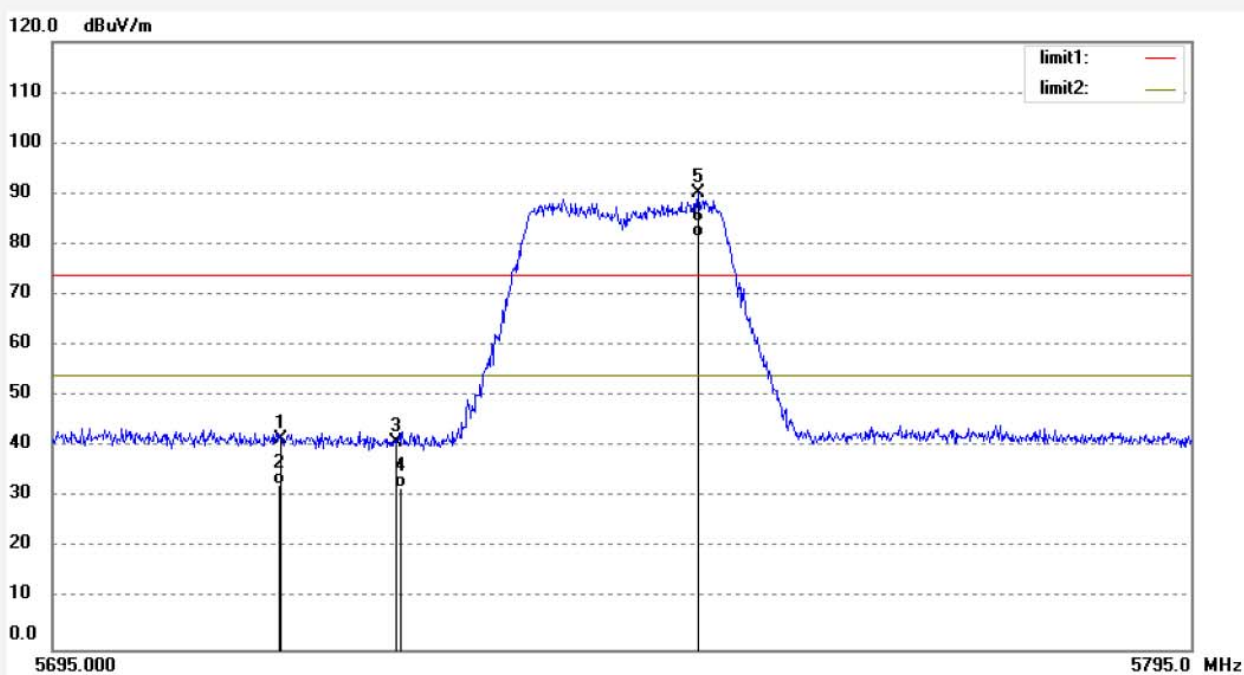
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 38.84 | 2.74 | 41.58 | 74.00 | -32.42 | peak | 200 | 206 | |
| 2 | 5715.000 | 29.47 | 2.74 | 32.21 | 54.00 | -21.79 | AVG | 200 | 157 | |
| 3 | 5725.000 | 39.28 | 2.75 | 42.03 | 74.00 | -31.97 | peak | 200 | 154 | |
| 4 | 5725.000 | 30.65 | 2.75 | 33.40 | 54.00 | -20.60 | AVG | 200 | 115 | |
| 5 | 5750.597 | 83.87 | 2.79 | 86.66 | | | peak | 200 | 102 | |
| 6 | 5750.597 | 74.62 | 2.79 | 77.41 | | | AVG | 200 | 67 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1011 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/21/34 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 149-AC 20MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 38.92 | 2.74 | 41.66 | 74.00 | -32.34 | peak | 150 | 289 | |
| 2 | 5715.000 | 29.77 | 2.74 | 32.51 | 54.00 | -21.49 | AVG | 150 | 300 | |
| 3 | 5725.000 | 38.07 | 2.75 | 40.82 | 74.00 | -33.18 | peak | 150 | 265 | |
| 4 | 5725.000 | 29.14 | 2.75 | 31.89 | 54.00 | -22.11 | AVG | 150 | 177 | |
| 5 | 5751.500 | 87.27 | 2.79 | 90.06 | | | peak | 150 | 204 | |
| 6 | 5751.500 | 78.64 | 2.79 | 81.43 | | | AVG | 150 | 147 | |

Job No.: star2017 #1013

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 165-AC 20MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

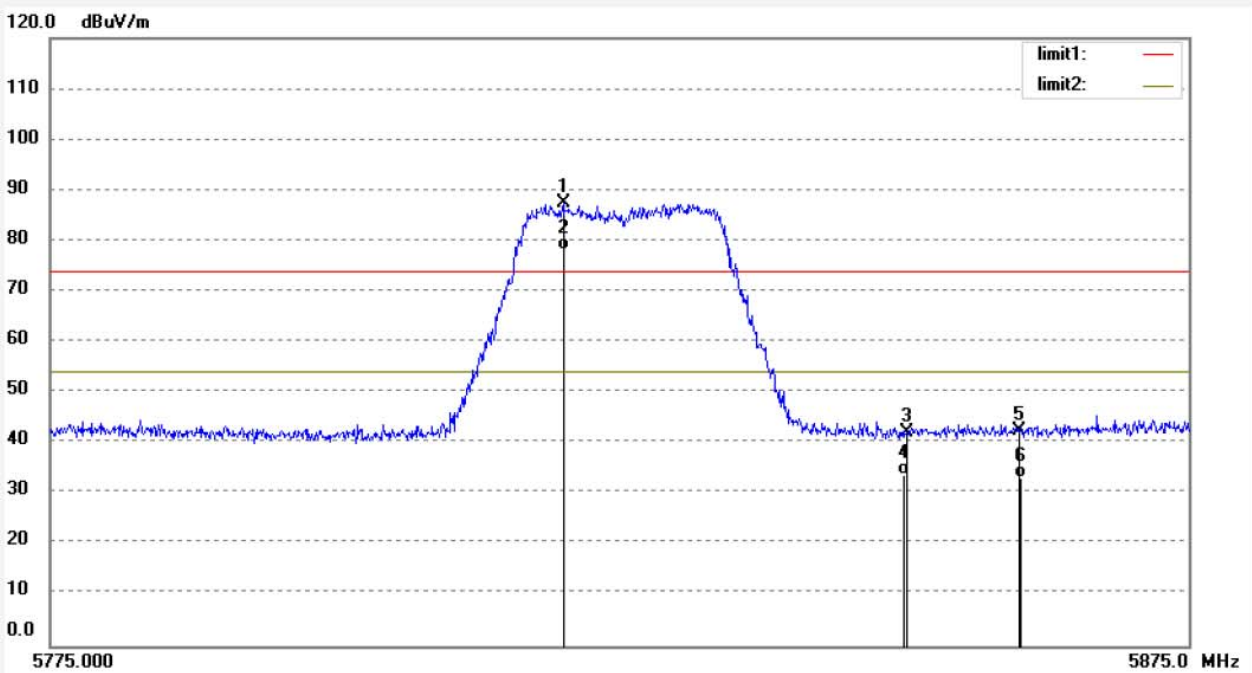
Date: 17/10/17/

Time: 9/24/10

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5819.878 | 84.49 | 2.89 | 87.38 | | | peak | 200 | 157 | |
| 2 | 5819.878 | 75.28 | 2.89 | 78.17 | | | AVG | 200 | 165 | |
| 3 | 5850.000 | 39.27 | 2.93 | 42.20 | 74.00 | -31.80 | peak | 200 | 200 | |
| 4 | 5850.000 | 30.69 | 2.93 | 33.62 | 54.00 | -20.38 | AVG | 200 | 186 | |
| 5 | 5860.000 | 39.39 | 2.95 | 42.34 | 74.00 | -31.66 | peak | 200 | 180 | |
| 6 | 5860.000 | 30.22 | 2.95 | 33.17 | 54.00 | -20.83 | AVG | 200 | 174 | |

Job No.: star2017 #1012

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 165-AC 20MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Vertical

Power Source: DC 12V

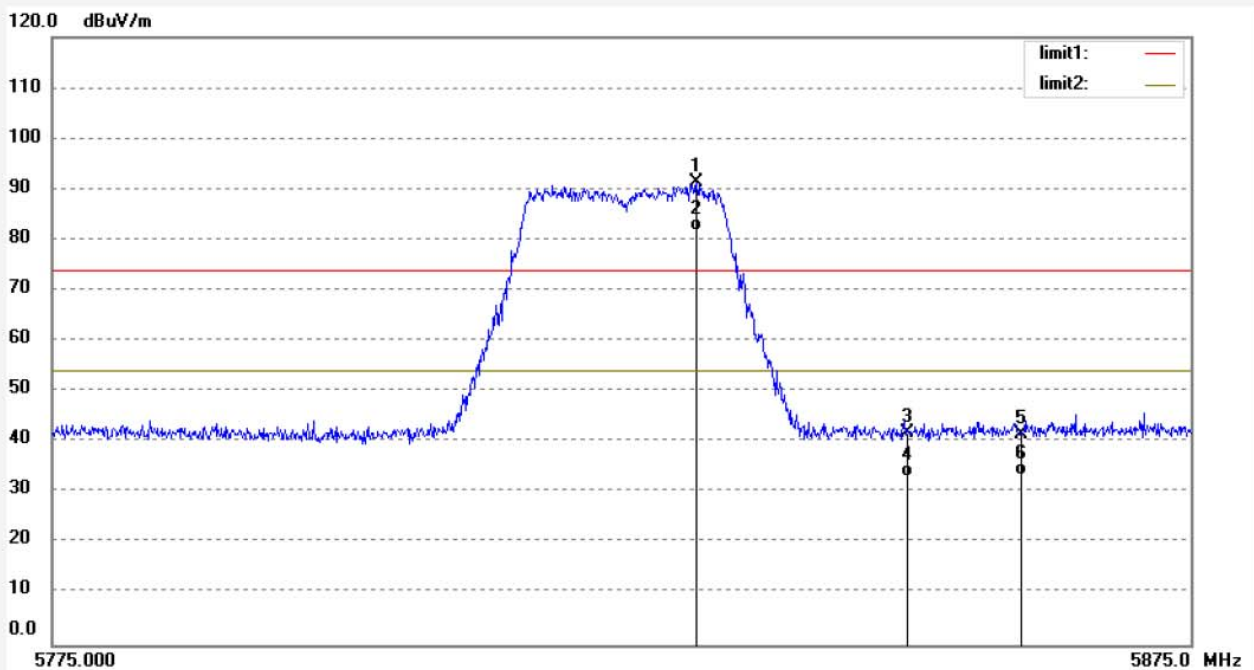
Date: 17/10/17/

Time: 9/23/02

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5831.402 | 88.35 | 2.90 | 91.25 | | | peak | 150 | 245 | |
| 2 | 5831.402 | 78.95 | 2.90 | 81.85 | | | AVG | 150 | 107 | |
| 3 | 5850.000 | 38.97 | 2.93 | 41.90 | 74.00 | -32.10 | peak | 150 | 100 | |
| 4 | 5850.000 | 30.14 | 2.93 | 33.07 | 54.00 | -20.93 | AVG | 150 | 35 | |
| 5 | 5860.000 | 38.71 | 2.95 | 41.66 | 74.00 | -32.34 | peak | 150 | 207 | |
| 6 | 5860.000 | 30.47 | 2.95 | 33.42 | 54.00 | -20.58 | AVG | 150 | 241 | |

Test mode: 802.11N 40MHz TX Frequency: 5190MHz, 5230MHz, 5755MHz, 5795MHz

The EUT is tested Radiated Band Edge at each test mode in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots



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Science & Industry Park,Nanshan Shenzhen,P.R.China

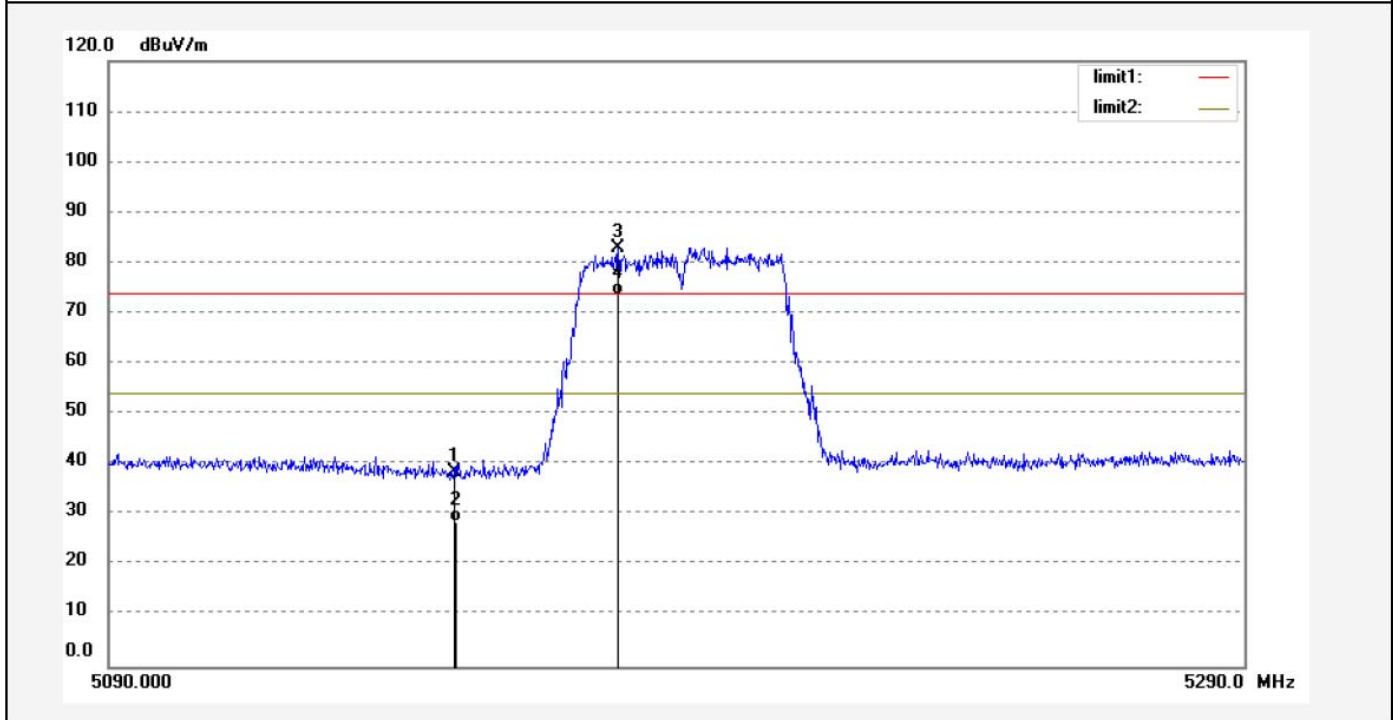
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1014 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/28/17 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 38-N 40MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

Note: Report No.:ATE20171984

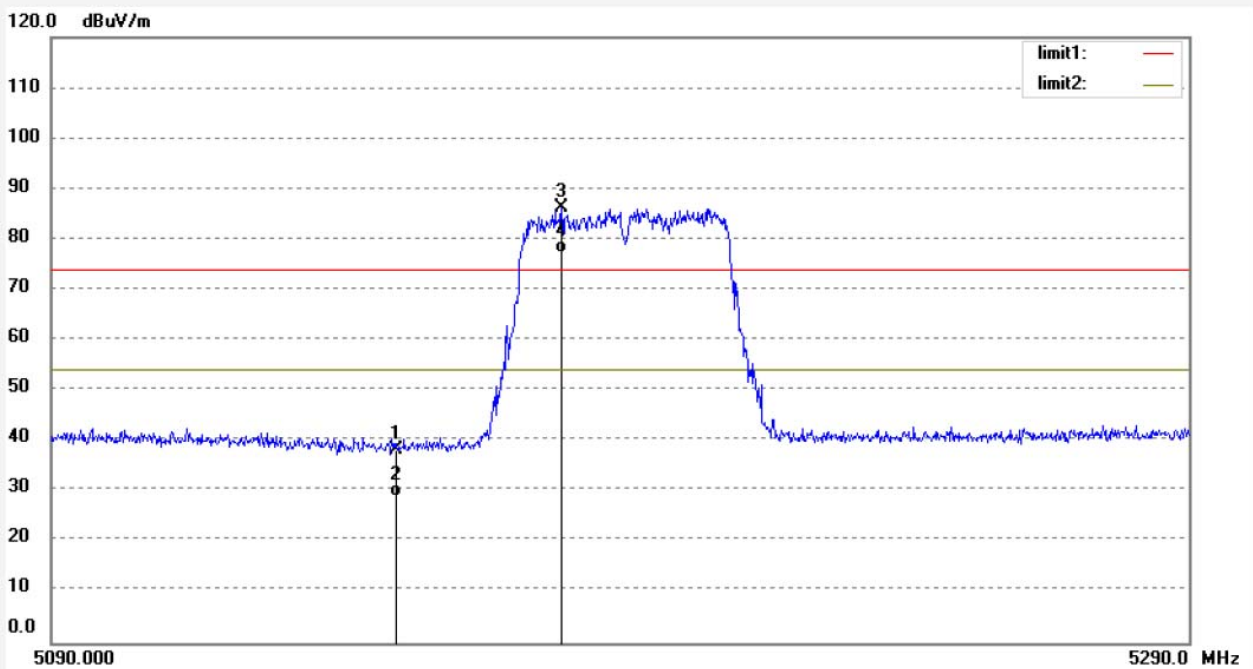


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 36.41 | 2.04 | 38.45 | 74.00 | -35.55 | peak | 200 | 107 | |
| 2 | 5150.000 | 26.59 | 2.04 | 28.63 | 54.00 | -25.37 | AVG | 200 | 124 | |
| 3 | 5178.827 | 80.94 | 2.07 | 83.01 | | | peak | 200 | 144 | |
| 4 | 5178.827 | 71.59 | 2.07 | 73.66 | | | AVG | 200 | 256 | |

Job No.: star2017 #1015
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 38-N 40MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Vertical
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/29/39
 Engineer Signature: star
 Distance: 3m

Note: Report No.:ATE20171984

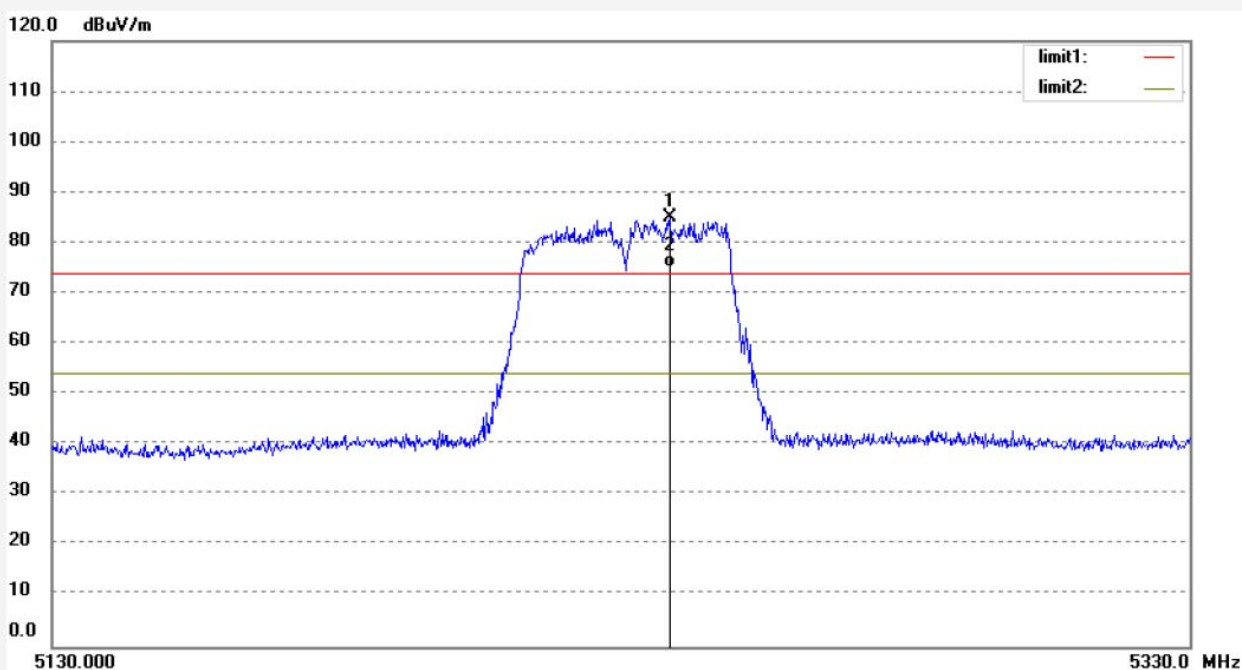


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 36.31 | 2.04 | 38.35 | 74.00 | -35.65 | peak | 150 | 209 | |
| 2 | 5150.000 | 26.97 | 2.04 | 29.01 | 54.00 | -24.99 | AVG | 150 | 127 | |
| 3 | 5178.827 | 84.17 | 2.07 | 86.24 | | | peak | 150 | 277 | |
| 4 | 5178.827 | 75.10 | 2.07 | 77.17 | | | AVG | 150 | 74 | |

Job No.: star2017 #1017
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 46-N 40MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Horizontal
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/35/32
 Engineer Signature: star
 Distance: 3m

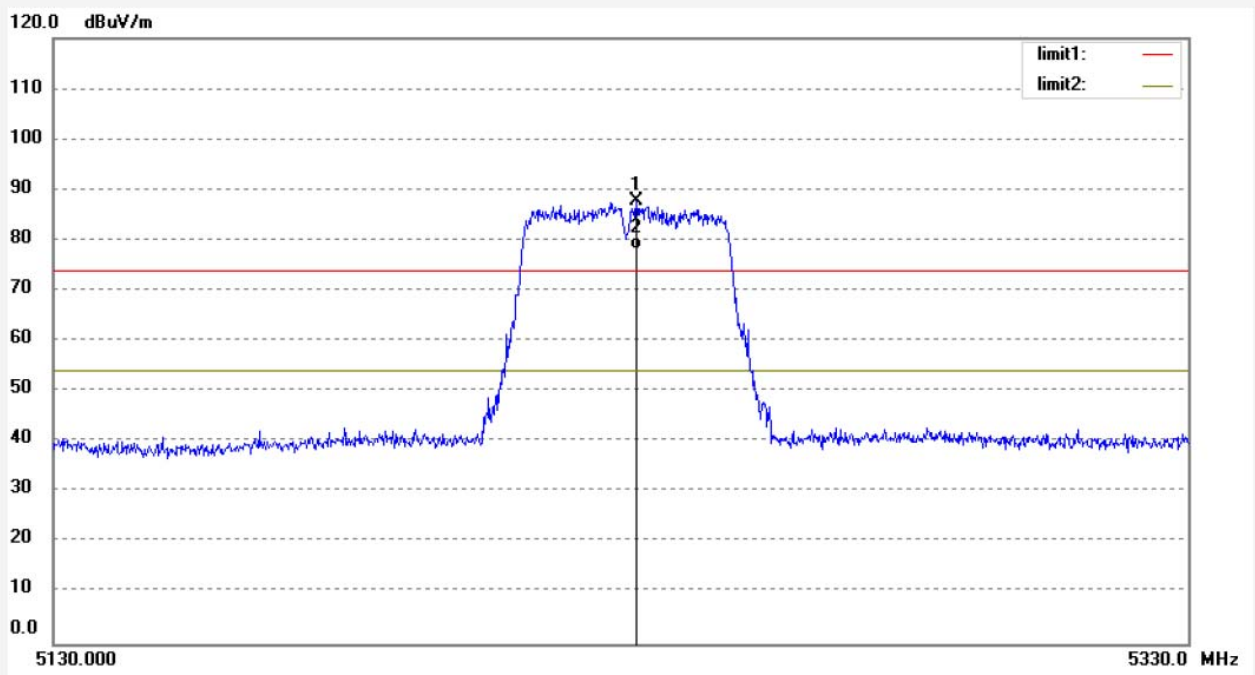
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5237.668 | 82.94 | 2.14 | 85.08 | | | peak | 200 | 314 | |
| 2 | 5237.668 | 73.11 | 2.14 | 75.25 | | | AVG | 200 | 308 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1016 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/34/37 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 46-N 40MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5231.850 | 85.51 | 2.13 | 87.64 | | | peak | 150 | 89 | |
| 2 | 5231.850 | 76.00 | 2.13 | 78.13 | | | AVG | 150 | 12 | |

Job No.: star2017 #1018

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 151-N 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

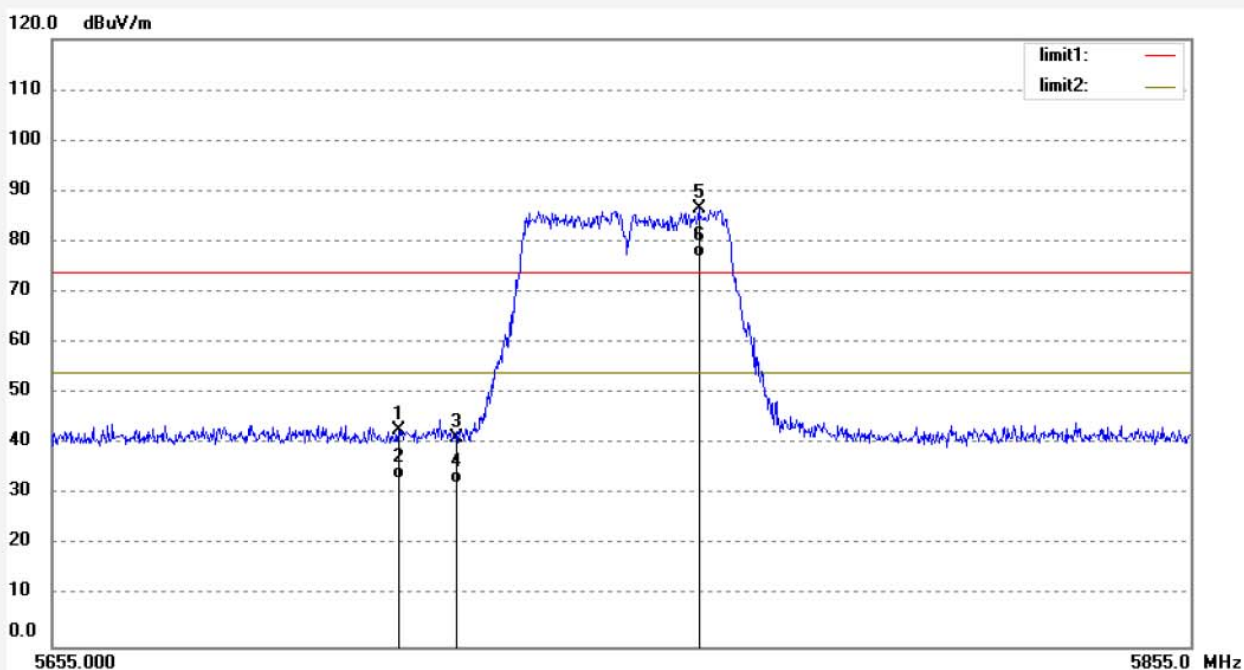
Date: 17/10/17/

Time: 9/36/56

Engineer Signature: star

Distance: 3m

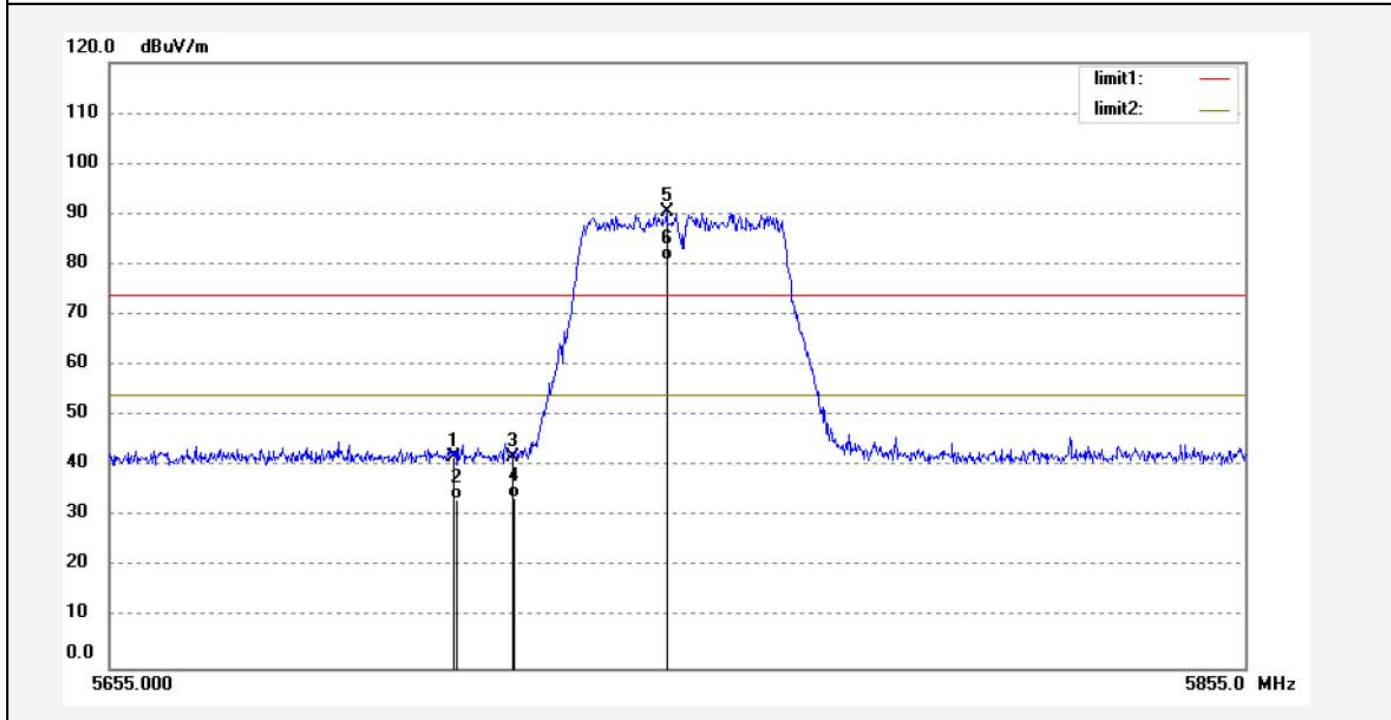
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 39.88 | 2.74 | 42.62 | 74.00 | -31.38 | peak | 200 | 204 | |
| 2 | 5715.000 | 30.52 | 2.74 | 33.26 | 54.00 | -20.74 | AVG | 200 | 189 | |
| 3 | 5725.000 | 38.58 | 2.75 | 41.33 | 74.00 | -32.67 | peak | 200 | 199 | |
| 4 | 5725.000 | 29.62 | 2.75 | 32.37 | 54.00 | -21.63 | AVG | 200 | 214 | |
| 5 | 5767.774 | 83.69 | 2.82 | 86.51 | | | peak | 200 | 267 | |
| 6 | 5767.774 | 74.17 | 2.82 | 76.99 | | | AVG | 200 | 300 | |

| | |
|-------------------------------|--------------------------|
| Job No.: star2017 #1019 | Polarization: Vertical |
| Standard: FCC PK | Power Source: DC 12V |
| Test item: Radiation Test | Date: 17/10/17/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/37/50 |
| EUT: WiFi module | Engineer Signature: star |
| Mode: TX Channel 151-N 40MHz | Distance: 3m |
| Model: WPC0GR2231R | |
| Manufacturer: Prima | |

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 39.20 | 2.74 | 41.94 | 74.00 | -32.06 | peak | 150 | 200 | |
| 2 | 5715.000 | 30.79 | 2.74 | 33.53 | 54.00 | -20.47 | AVG | 150 | 182 | |
| 3 | 5725.000 | 39.16 | 2.75 | 41.91 | 74.00 | -32.09 | peak | 150 | 147 | |
| 4 | 5725.000 | 30.85 | 2.75 | 33.60 | 54.00 | -20.40 | AVG | 150 | 344 | |
| 5 | 5752.328 | 87.74 | 2.79 | 90.53 | | | peak | 150 | 254 | |
| 6 | 5752.328 | 78.14 | 2.79 | 80.93 | | | AVG | 150 | 167 | |

Job No.: star2017 #1021

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 159-N 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

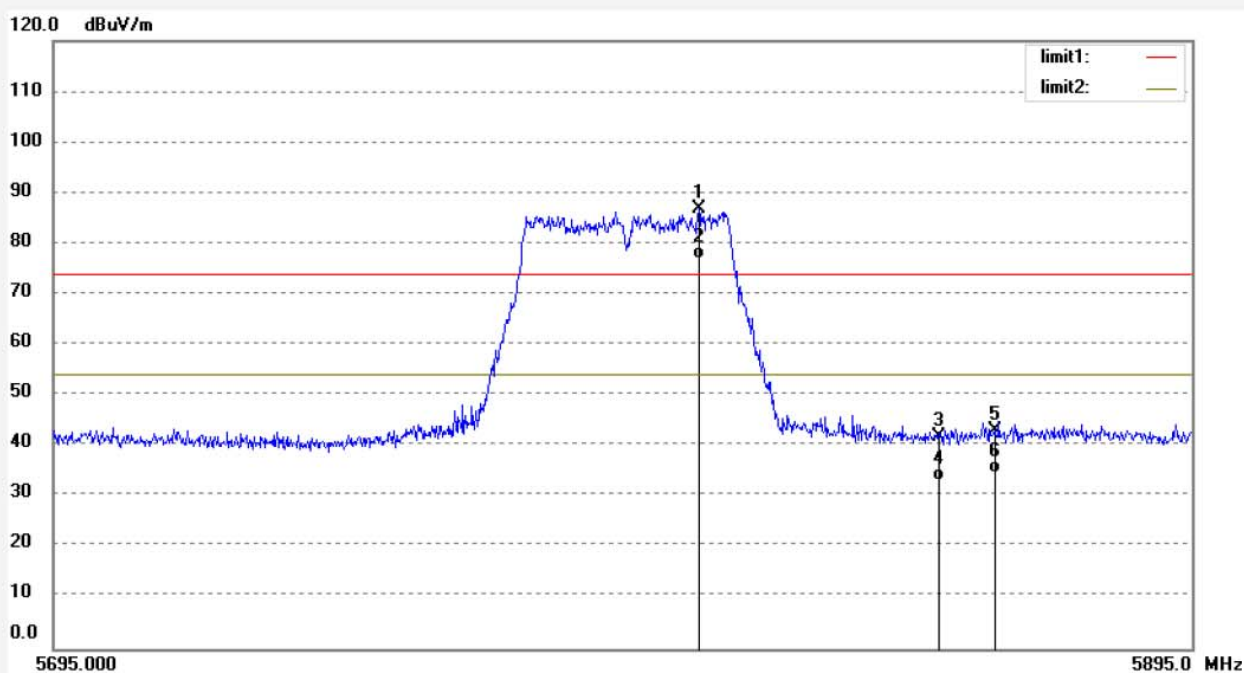
Date: 17/10/17/

Time: 9/40/36

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984

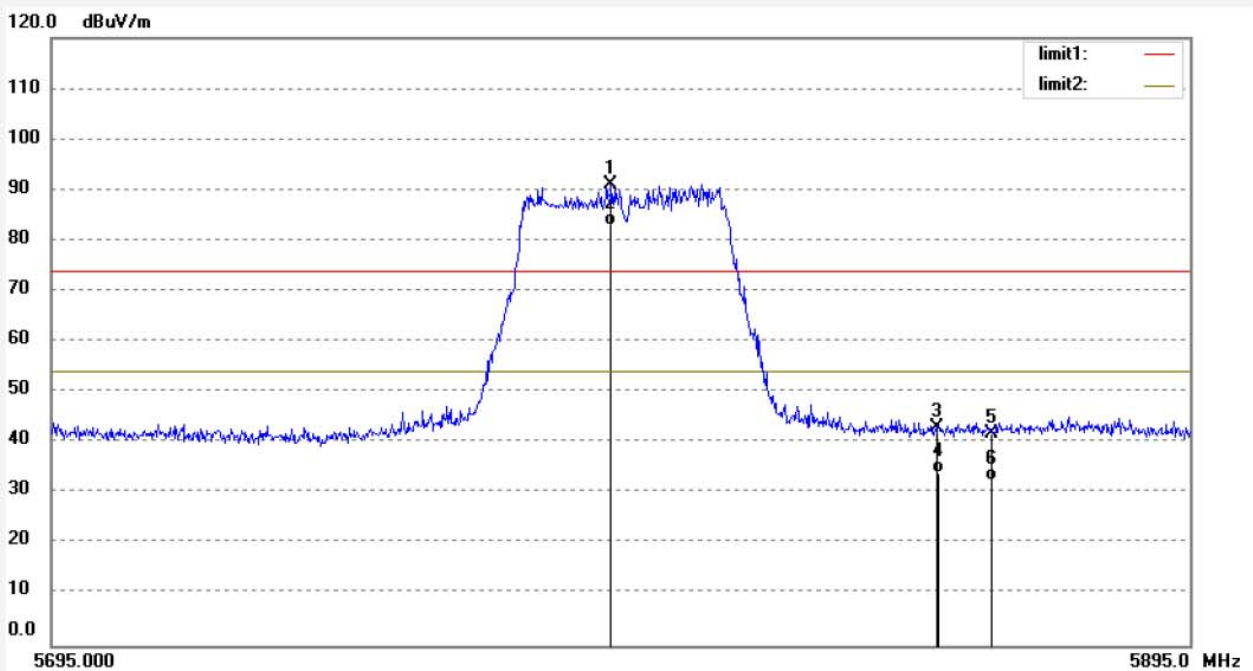


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5807.579 | 83.86 | 2.87 | 86.73 | | | peak | 200 | 189 | |
| 2 | 5807.579 | 74.19 | 2.87 | 77.06 | | | AVG | 200 | 300 | |
| 3 | 5850.000 | 38.95 | 2.93 | 41.88 | 74.00 | -32.12 | peak | 200 | 264 | |
| 4 | 5850.000 | 30.08 | 2.93 | 33.01 | 54.00 | -20.99 | AVG | 200 | 147 | |
| 5 | 5860.000 | 40.05 | 2.95 | 43.00 | 74.00 | -31.00 | peak | 200 | 54 | |
| 6 | 5860.000 | 31.77 | 2.95 | 34.72 | 54.00 | -19.28 | AVG | 200 | 142 | |

Job No.: star2017 #1020
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 159-N 40MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Vertical
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/39/54
 Engineer Signature: star
 Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5792.534 | 88.15 | 2.85 | 91.00 | | | peak | 150 | 54 | |
| 2 | 5792.534 | 80.00 | 2.85 | 82.85 | | | AVG | 150 | 251 | |
| 3 | 5850.000 | 40.02 | 2.93 | 42.95 | 74.00 | -31.05 | peak | 150 | 341 | |
| 4 | 5850.000 | 31.14 | 2.93 | 34.07 | 54.00 | -19.93 | AVG | 150 | 120 | |
| 5 | 5860.000 | 38.80 | 2.95 | 41.75 | 74.00 | -32.25 | peak | 150 | 78 | |
| 6 | 5860.000 | 29.57 | 2.95 | 32.52 | 54.00 | -21.48 | AVG | 150 | 145 | |

Test mode: 802.11ac 40MHz TX Frequency: 5190MHz, 5230MHz, 5755MHz, 5795MHz

The EUT is tested Radiated Band Edge at each test mode in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: star2017 #1022

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 38-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

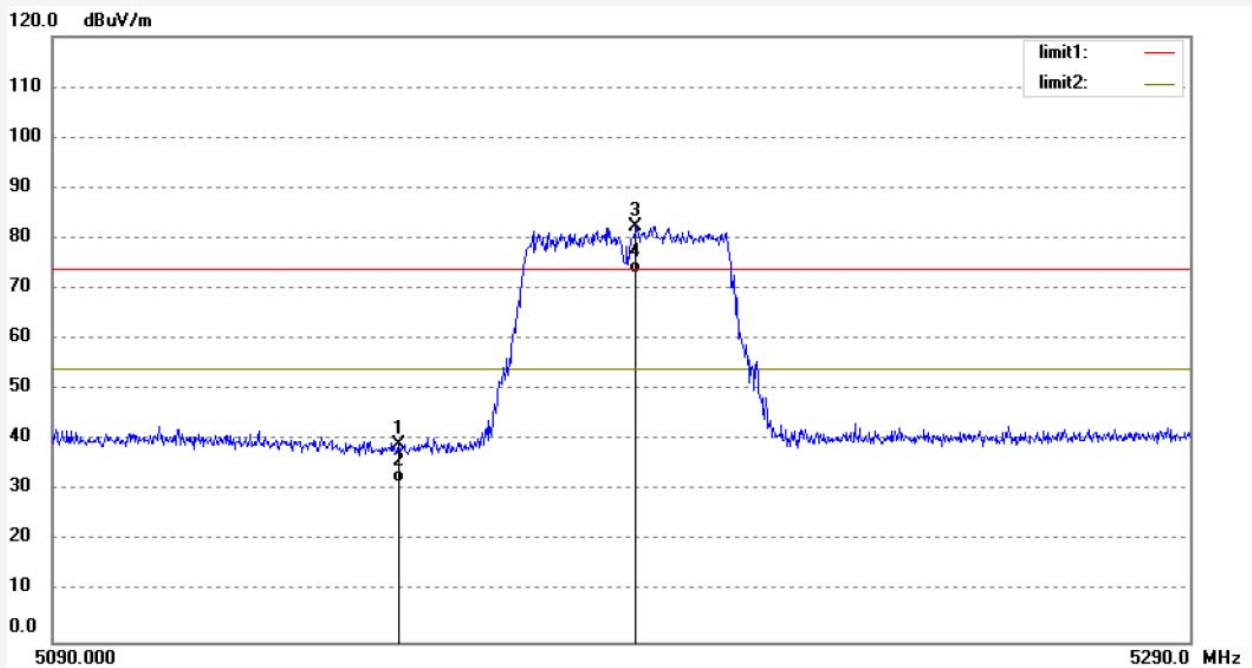
Date: 17/10/17/

Time: 9/42/14

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984

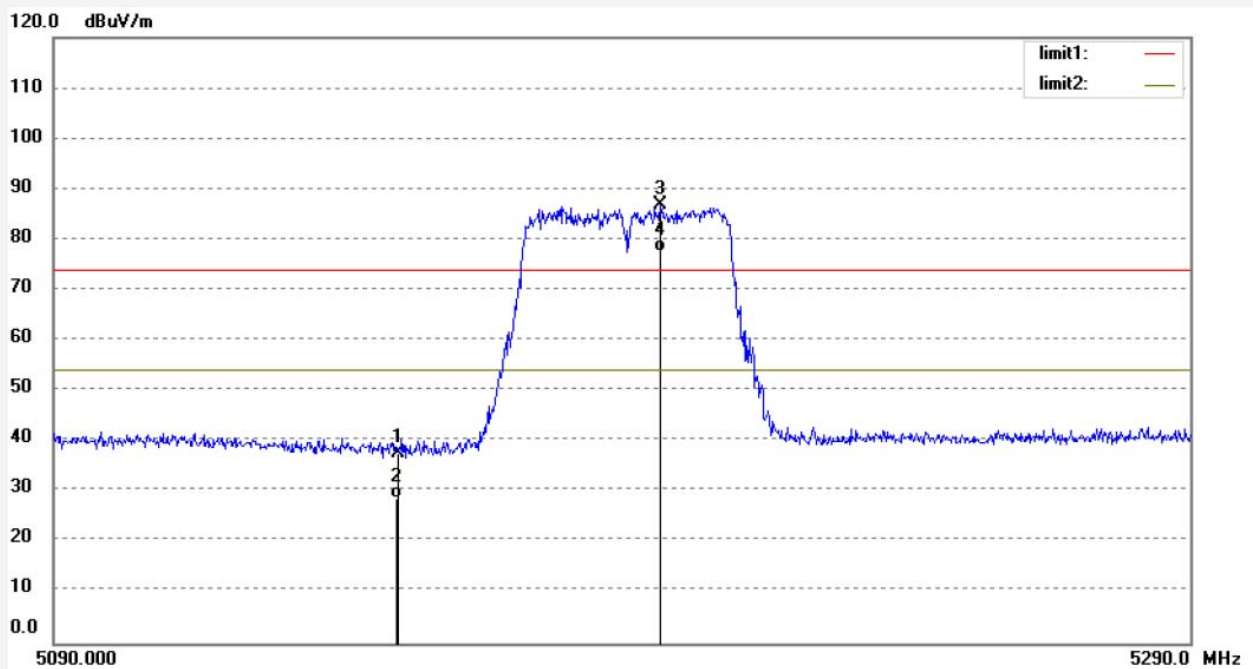


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 37.08 | 2.04 | 39.12 | 74.00 | -34.88 | peak | 200 | 354 | |
| 2 | 5150.000 | 29.66 | 2.04 | 31.70 | 54.00 | -22.30 | AVG | 200 | 300 | |
| 3 | 5191.642 | 80.28 | 2.09 | 82.37 | | | peak | 200 | 256 | |
| 4 | 5191.642 | 71.09 | 2.09 | 73.18 | | | AVG | 200 | 237 | |

Job No.: star2017 #1023
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 38-AC 40MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Vertical
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/43/07
 Engineer Signature: star
 Distance: 3m

Note: Report No.:ATE20171984

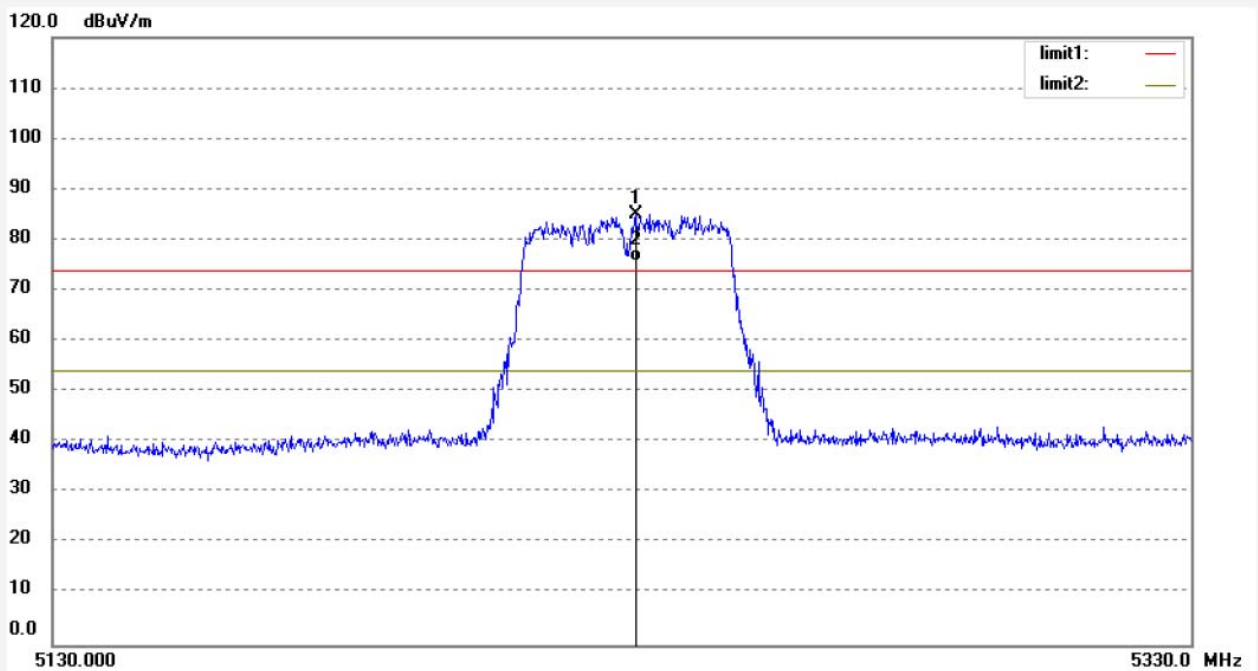


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5150.000 | 35.64 | 2.04 | 37.68 | 74.00 | -36.32 | peak | 150 | 97 | |
| 2 | 5150.000 | 26.55 | 2.04 | 28.59 | 54.00 | -25.41 | AVG | 150 | 153 | |
| 3 | 5195.854 | 84.70 | 2.09 | 86.79 | | | peak | 150 | 120 | |
| 4 | 5195.854 | 75.44 | 2.09 | 77.53 | | | AVG | 150 | 164 | |

Job No.: star2017 #1025
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 46-AC 40MHz
 Model: WPC0GR2231R
 Manufacturer: Prima

Polarization: Horizontal
 Power Source: DC 12V
 Date: 17/10/17/
 Time: 9/45/31
 Engineer Signature: star
 Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5231.449 | 82.85 | 2.13 | 84.98 | | | peak | 200 | 314 | |
| 2 | 5231.449 | 73.64 | 2.13 | 75.77 | | | AVG | 200 | 297 | |

Job No.: star2017 #1024

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 46-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Vertical

Power Source: DC 12V

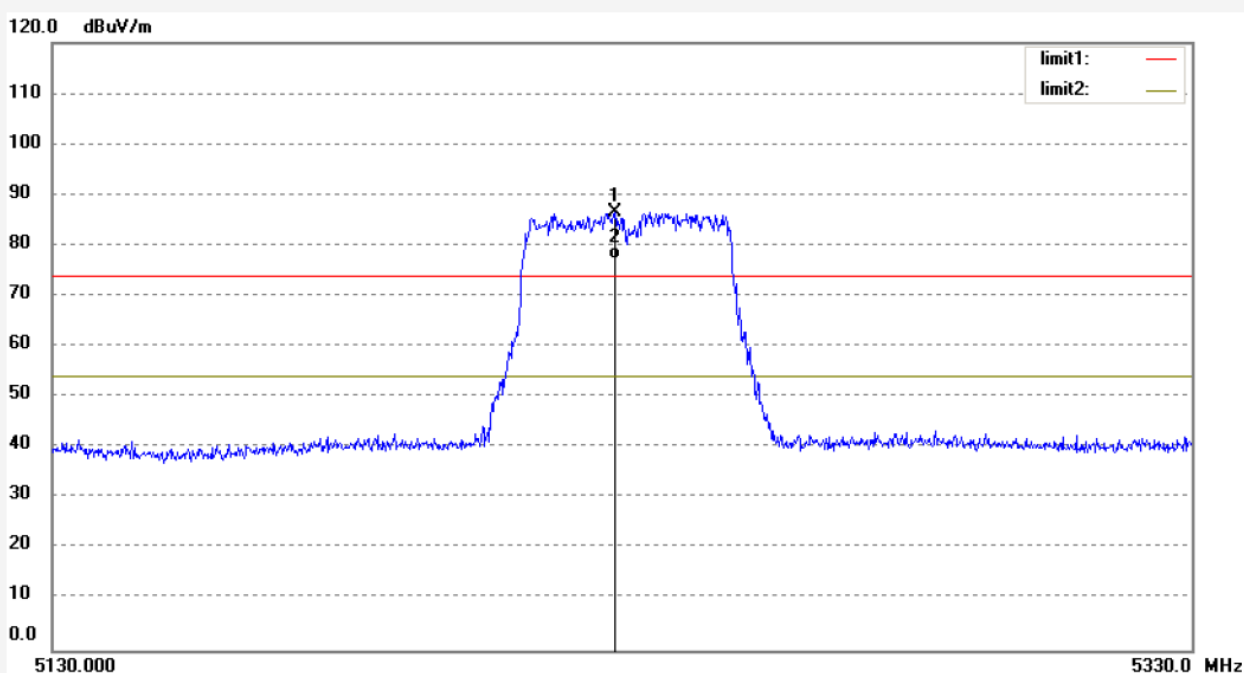
Date: 17/10/17/

Time: 9/44/45

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5227.842 | 84.52 | 2.13 | 86.65 | | | peak | 150 | 250 | |
| 2 | 5227.842 | 75.00 | 2.13 | 77.13 | | | AVG | 150 | 234 | |

Job No.: star2017 #1026

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 151-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

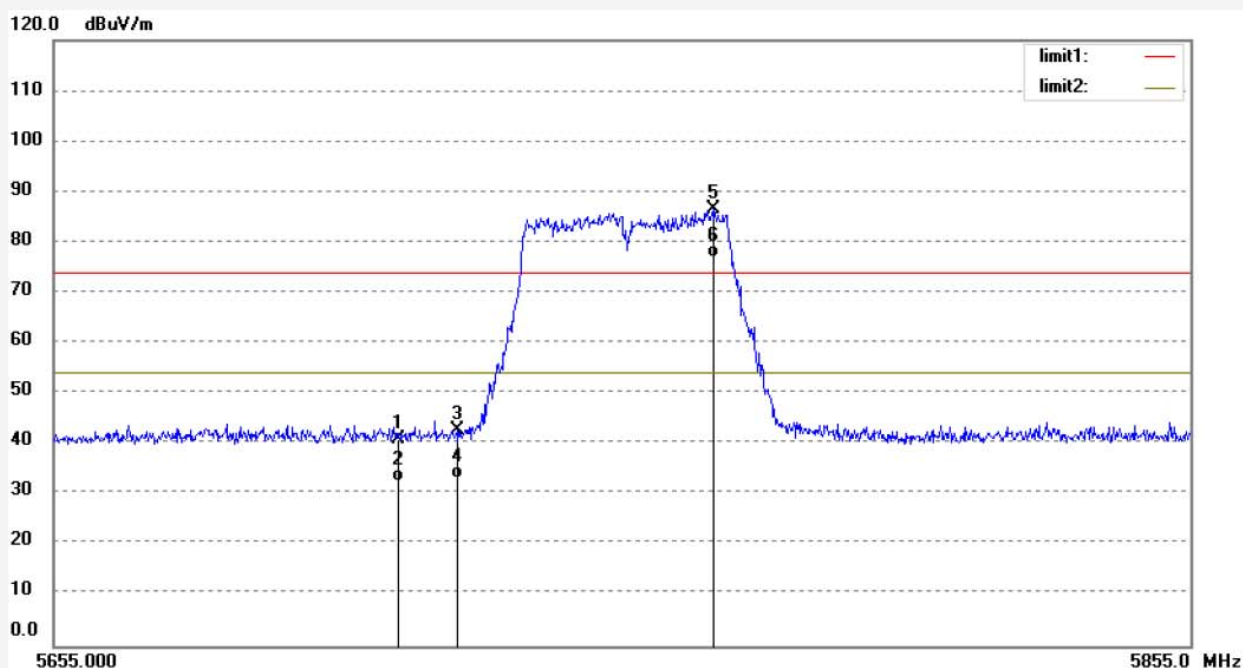
Date: 17/10/17/

Time: 9/46/47

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 38.35 | 2.74 | 41.09 | 74.00 | -32.91 | peak | 200 | 352 | |
| 2 | 5715.000 | 29.77 | 2.74 | 32.51 | 54.00 | -21.49 | AVG | 200 | 264 | |
| 3 | 5725.000 | 39.97 | 2.75 | 42.72 | 74.00 | -31.28 | peak | 200 | 107 | |
| 4 | 5725.000 | 30.46 | 2.75 | 33.21 | 54.00 | -20.79 | AVG | 200 | 44 | |
| 5 | 5770.185 | 83.76 | 2.82 | 86.58 | | | peak | 200 | 241 | |
| 6 | 5770.185 | 74.04 | 2.82 | 76.86 | | | AVG | 200 | 114 | |

Job No.: star2017 #1027

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 151-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Vertical

Power Source: DC 12V

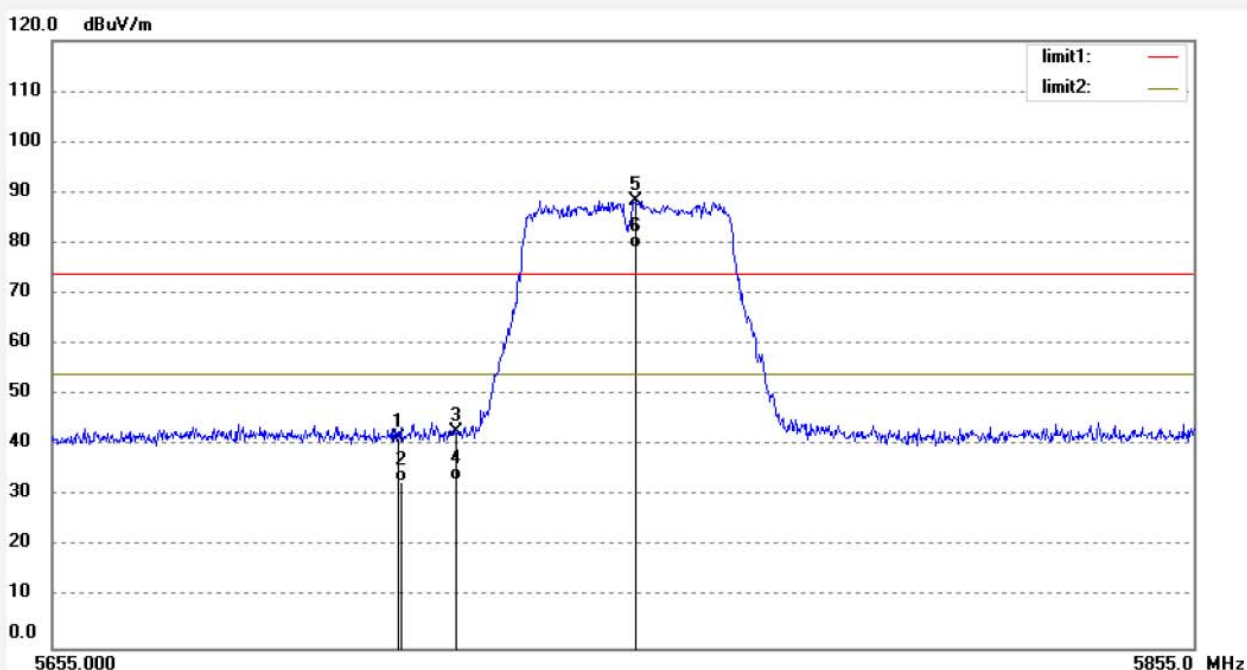
Date: 17/10/17/

Time: 9/47/49

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5715.000 | 38.94 | 2.74 | 41.68 | 74.00 | -32.32 | peak | 150 | 300 | |
| 2 | 5715.000 | 30.00 | 2.74 | 32.74 | 54.00 | -21.26 | AVG | 150 | 231 | |
| 3 | 5725.000 | 39.97 | 2.75 | 42.72 | 74.00 | -31.28 | peak | 150 | 144 | |
| 4 | 5725.000 | 30.51 | 2.75 | 33.26 | 54.00 | -20.74 | AVG | 150 | 156 | |
| 5 | 5756.336 | 85.66 | 2.80 | 88.46 | | | peak | 150 | 97 | |
| 6 | 5756.336 | 76.28 | 2.80 | 79.08 | | | AVG | 150 | 200 | |

Job No.: star2017 #1029

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 159-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Horizontal

Power Source: DC 12V

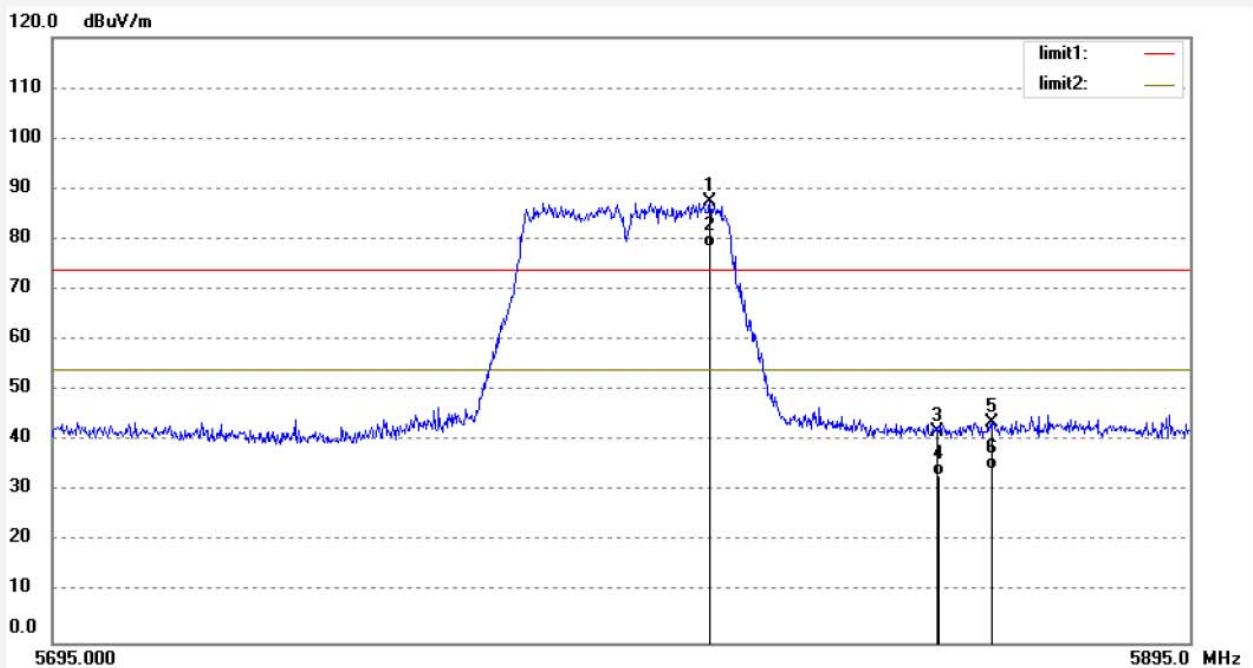
Date: 17/10/17/

Time: 9/50/24

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5809.789 | 84.63 | 2.88 | 87.51 | | | peak | 200 | 234 | |
| 2 | 5809.789 | 75.47 | 2.88 | 78.35 | | | AVG | 200 | 230 | |
| 3 | 5850.000 | 39.06 | 2.93 | 41.99 | 74.00 | -32.01 | peak | 200 | 156 | |
| 4 | 5850.000 | 30.14 | 2.93 | 33.07 | 54.00 | -20.93 | AVG | 200 | 167 | |
| 5 | 5860.000 | 40.69 | 2.95 | 43.64 | 74.00 | -30.36 | peak | 200 | 180 | |
| 6 | 5860.000 | 31.53 | 2.95 | 34.48 | 54.00 | -19.52 | AVG | 200 | 200 | |

Job No.: star2017 #1028

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: WiFi module

Mode: TX Channel 159-AC 40MHz

Model: WPC0GR2231R

Manufacturer: Prima

Polarization: Vertical

Power Source: DC 12V

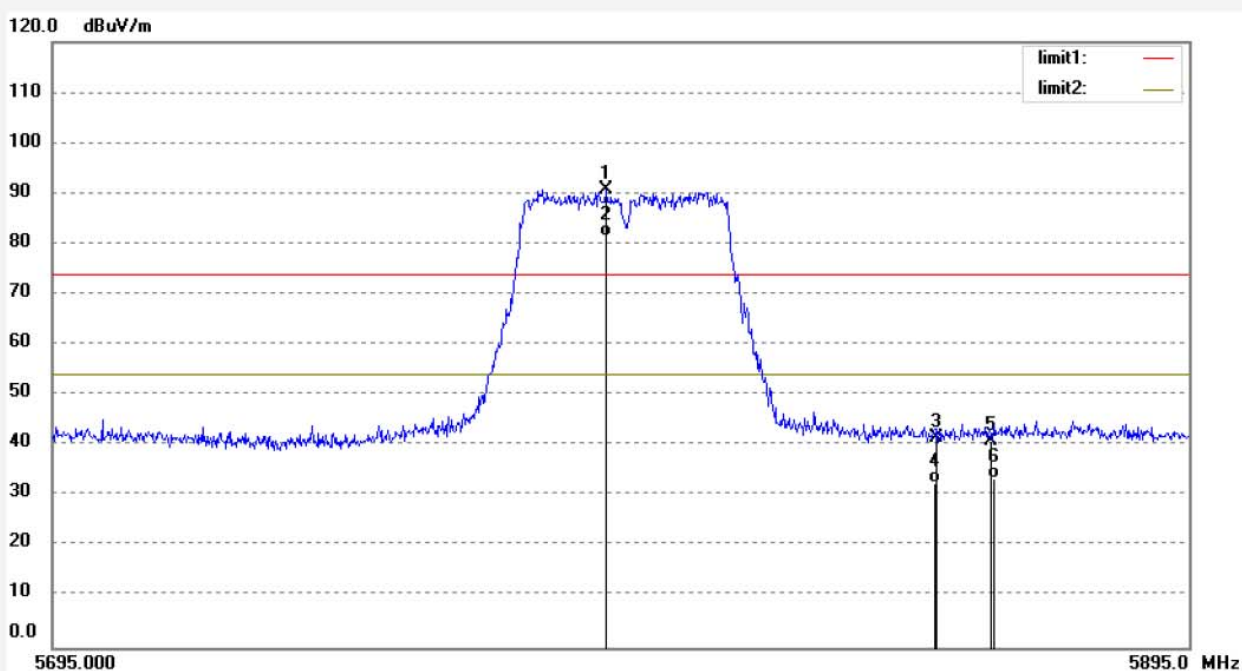
Date: 17/10/17/

Time: 9/49/30

Engineer Signature: star

Distance: 3m

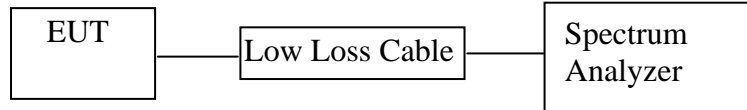
Note: Report No.:ATE20171984



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 5791.733 | 87.90 | 2.85 | 90.75 | | | peak | 150 | 359 | |
| 2 | 5791.733 | 78.49 | 2.85 | 81.34 | | | AVG | 150 | 304 | |
| 3 | 5850.000 | 38.59 | 2.93 | 41.52 | 74.00 | -32.48 | peak | 150 | 241 | |
| 4 | 5850.000 | 29.58 | 2.93 | 32.51 | 54.00 | -21.49 | AVG | 150 | 200 | |
| 5 | 5860.000 | 38.08 | 2.95 | 41.03 | 74.00 | -32.97 | peak | 150 | 146 | |
| 6 | 5860.000 | 30.43 | 2.95 | 33.38 | 54.00 | -20.62 | AVG | 150 | 150 | |

12.FREQUENCIES STABILITY

12.1.Block Diagram of Test Setup



(EUT: WiFi module)

12.2.EUT Configuration on Measurement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

12.3.Operating Condition of EUT

12.3.1.Setup the EUT and simulator as shown as Section 12.1.

12.3.2.Turn on the power of all equipment.

12.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 5150-5250 and 5725-5850MHz.

12.4.Test Result

| Test Conditions | Measured Frequency(MHz) 5180 |
|----------------------------|------------------------------|
| V nor(V) | 5180.0077 |
| V max(V) | 5180.0081 |
| V min(V) | 5180.0092 |
| Max. Deviation Frequency | 0.0092 |
| Max. Frequency Error (ppm) | 1.78 |

Frequency Error vs. Temperature:

| Test Conditions (°C) | Measured Frequency(MHz) 5180 |
|----------------------------|------------------------------|
| -5 | 5180.0072 |
| 5 | 5180.0055 |
| 15 | 5180.0039 |
| 25 | 5180.0081 |
| 35 | 5180.0089 |
| 45 | 5180.0051 |
| 50 | 5180.0029 |
| Max. Deviation Frequency | 0.0089 |
| Max. Frequency Error (ppm) | 1.72 |

| Test Conditions | Measured Frequency(MHz) 5825 |
|----------------------------|------------------------------|
| V nor(V) | 5825.0055 |
| V max(V) | 5825.0047 |
| V min(V) | 5825.0059 |
| Max. Deviation Frequency | 0.0059 |
| Max. Frequency Error (ppm) | 1.01 |

Frequency Error vs. Temperature:

| Test Conditions (°C) | Measured Frequency(MHz) 5180 |
|----------------------------|------------------------------|
| -5 | 5825.0033 |
| 5 | 5825.0051 |
| 15 | 5825.0059 |
| 25 | 5825.0062 |
| 35 | 5825.0041 |
| 45 | 5825.0062 |
| 50 | 5825.0071 |
| Max. Deviation Frequency | 0.0071 |
| Max. Frequency Error (ppm) | 1.22 |

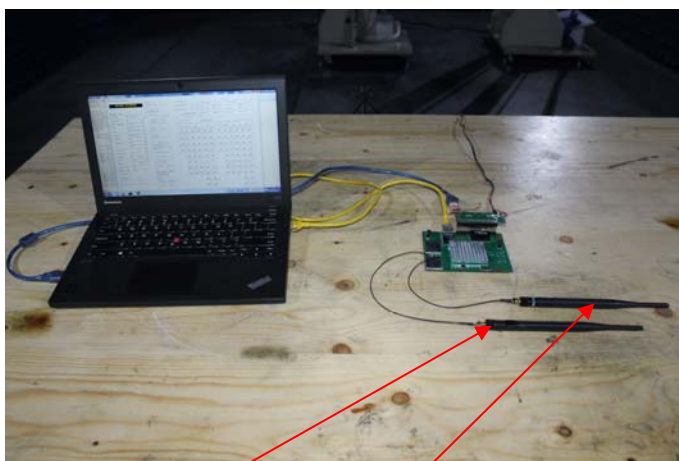
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2.Antenna Construction

The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b); The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement.



Antenna 1

Antenna 2