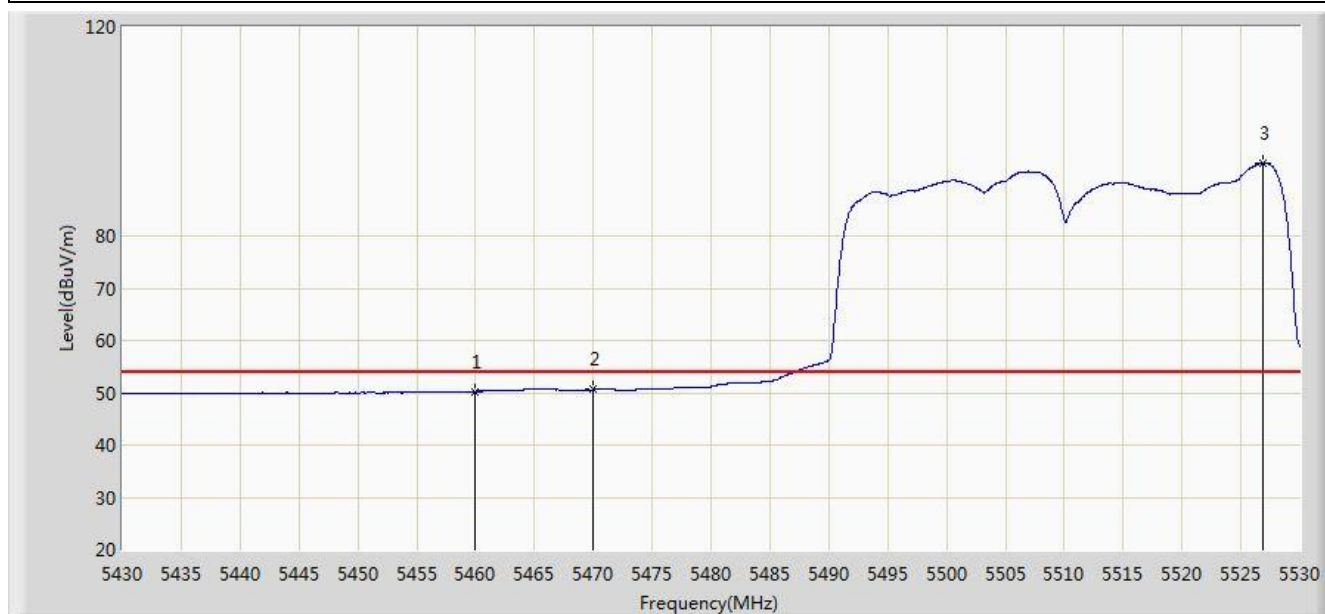


|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:33 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5510MHz Ant 0+1+2+3 |                          |

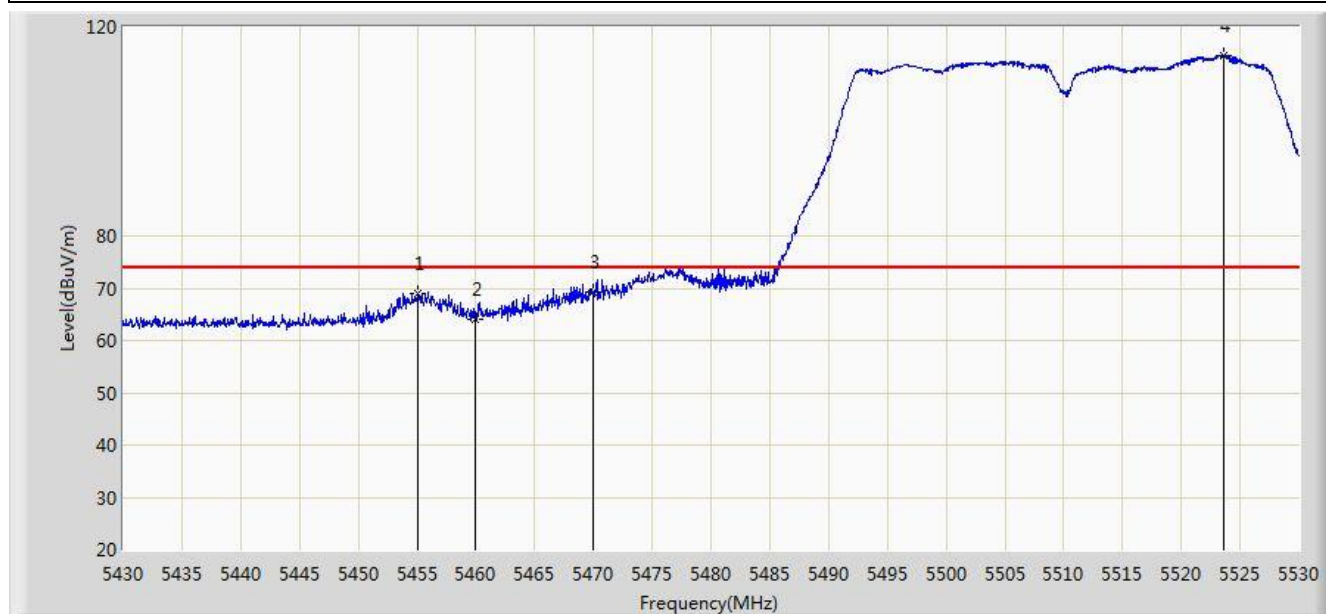


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 50.254                 | 13.444               | -3.746          | 54.000         | 36.810      | AV   |
| 2  |      |      | 5470.000        | 50.589                 | 13.764               | -17.611         | 68.200         | 36.825      | AV   |
| 3  |      | *    | 5526.850        | 93.898                 | 56.972               | N/A             | N/A            | 36.926      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:37 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5510MHz Ant 0+1+2+3 |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5455.050        | 69.085                 | 32.283               | -4.915          | 74.000         | 36.802      | PK   |
| 2  |      |      | 5460.000        | 64.123                 | 27.313               | -9.877          | 74.000         | 36.810      | PK   |
| 3  |      |      | 5470.000        | 69.336                 | 32.511               | -18.864         | 88.200         | 36.825      | PK   |
| 4  |      | *    | 5523.550        | 114.495                | 77.572               | N/A             | N/A            | 36.923      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:38 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5510MHz Ant 0+1+2+3 |                          |

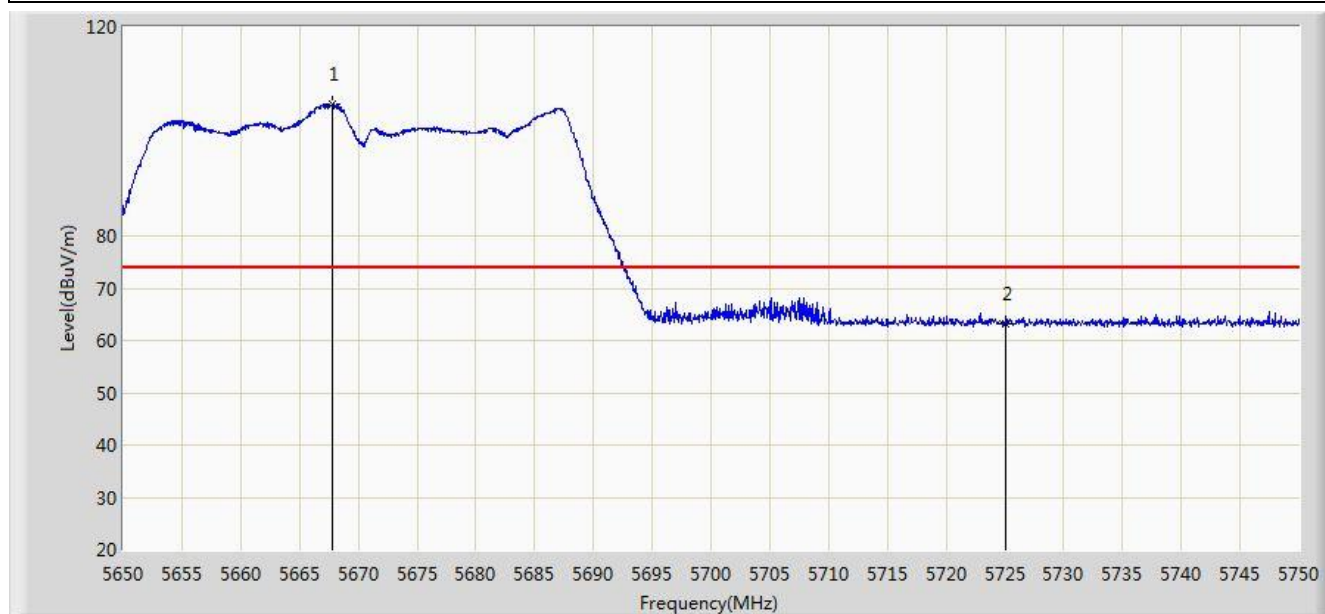


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5455.600        | 52.510                 | 15.707               | -1.490          | 54.000         | 36.804      | AV   |
| 2  |      |      | 5460.000        | 52.002                 | 15.192               | -1.998          | 54.000         | 36.810      | AV   |
| 3  |      |      | 5470.000        | 55.224                 | 18.399               | -12.976         | 68.200         | 36.825      | AV   |
| 4  |      | *    | 5521.250        | 102.849                | 65.930               | N/A             | N/A            | 36.919      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:42 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5670MHz Ant 0+1+2+3 |                          |

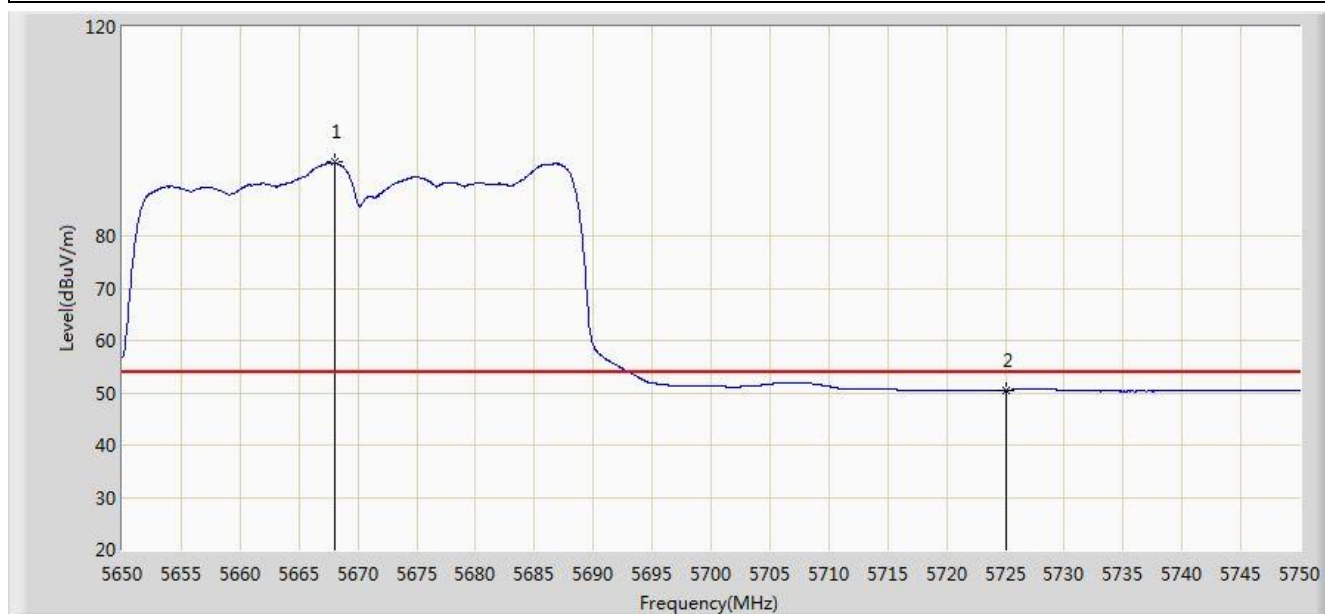


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5667.750        | 105.281                | 68.196               | N/A             | N/A            | 37.084      | PK   |
| 2  |      |      | 5725.000        | 63.132                 | 25.827               | -10.868         | 74.000         | 37.305      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:47 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5670MHz Ant 0+1+2+3 |                          |

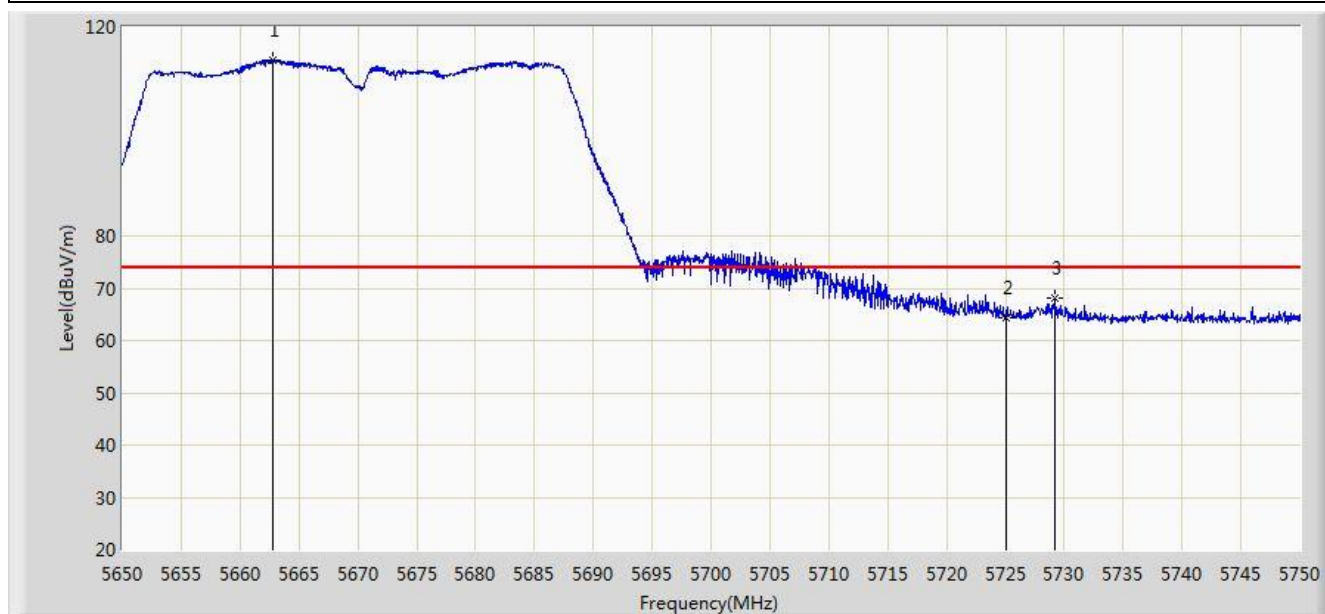


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5668.050        | 94.084                 | 56.999               | N/A             | N/A            | 37.085      | AV   |
| 2  |      |      | 5725.000        | 50.550                 | 13.245               | -3.450          | 54.000         | 37.305      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:53 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5670MHz Ant 0+1+2+3 |                          |

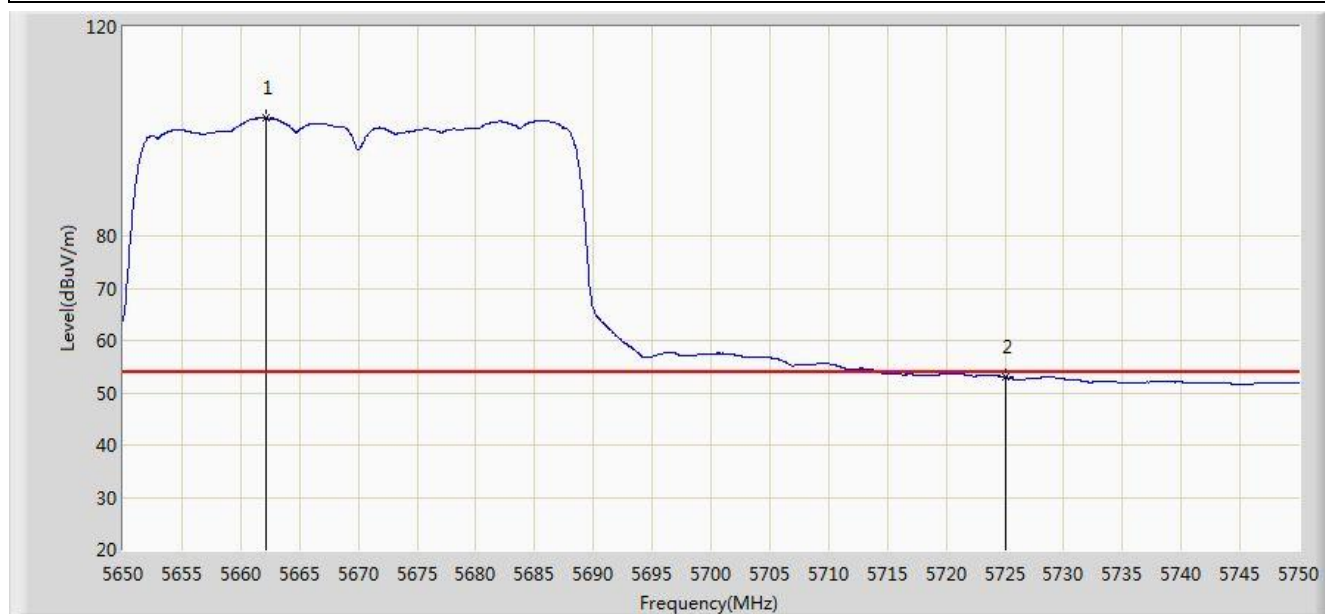


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5662.750        | 113.710                | 76.636               | N/A             | N/A            | 37.074      | PK   |
| 2  |      |      | 5725.000        | 64.323                 | 27.018               | -9.677          | 74.000         | 37.305      | PK   |
| 3  |      |      | 5729.150        | 68.234                 | 30.912               | -5.766          | 74.000         | 37.322      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 15:55 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5670MHz Ant 0+1+2+3 |                          |

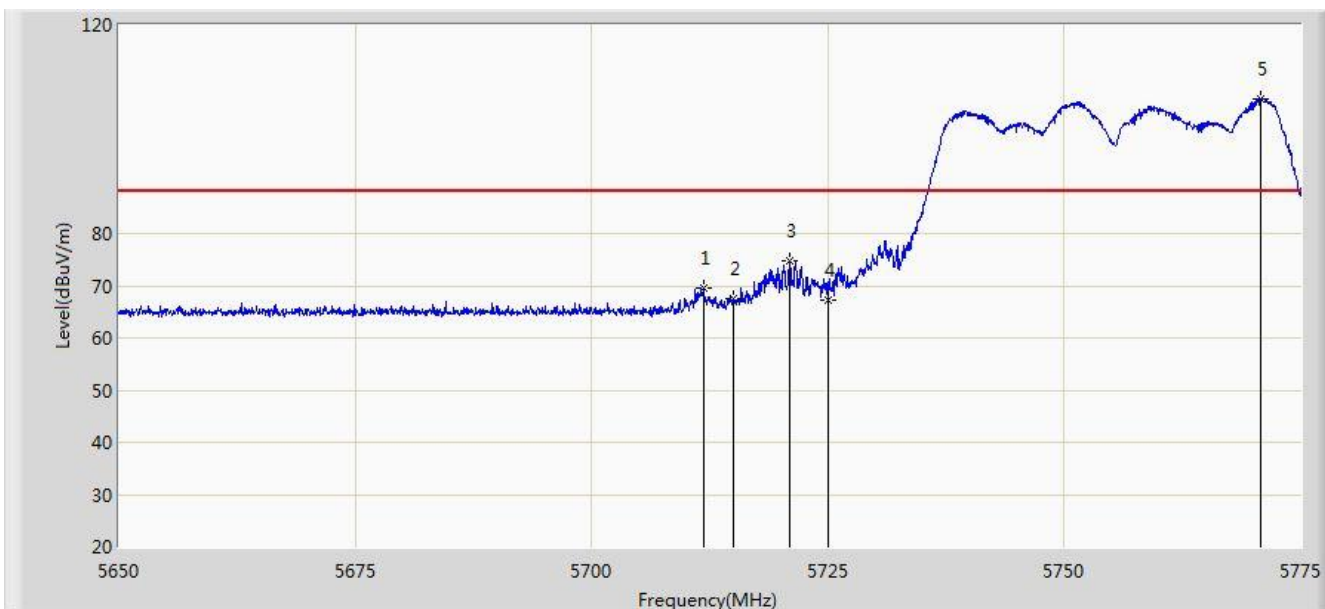


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5662.100        | 102.542                | 65.469               | N/A             | N/A            | 37.072      | AV   |
| 2  |      |      | 5725.000        | 52.996                 | 15.691               | -1.004          | 54.000         | 37.305      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:32 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5755MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

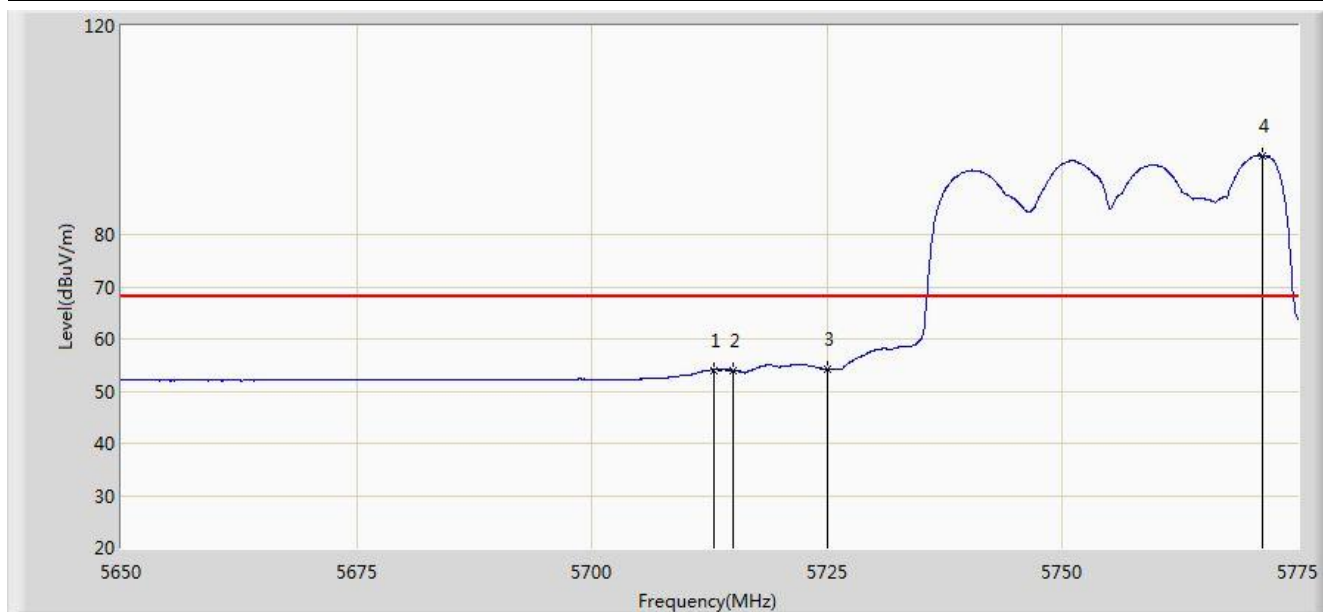


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5711.812        | 69.468                 | 31.532               | -18.732         | 88.200         | 37.937      | PK   |
| 2  |      |      | 5715.000        | 67.498                 | 29.549               | -20.702         | 88.200         | 37.949      | PK   |
| 3  |      |      | 5720.937        | 74.691                 | 36.718               | -23.509         | 98.200         | 37.973      | PK   |
| 4  |      |      | 5725.000        | 67.297                 | 29.307               | -30.903         | 98.200         | 37.990      | PK   |
| 5  |      | *    | 5770.750        | 105.814                | 67.646               | N/A             | N/A            | 38.168      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:35 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5755MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

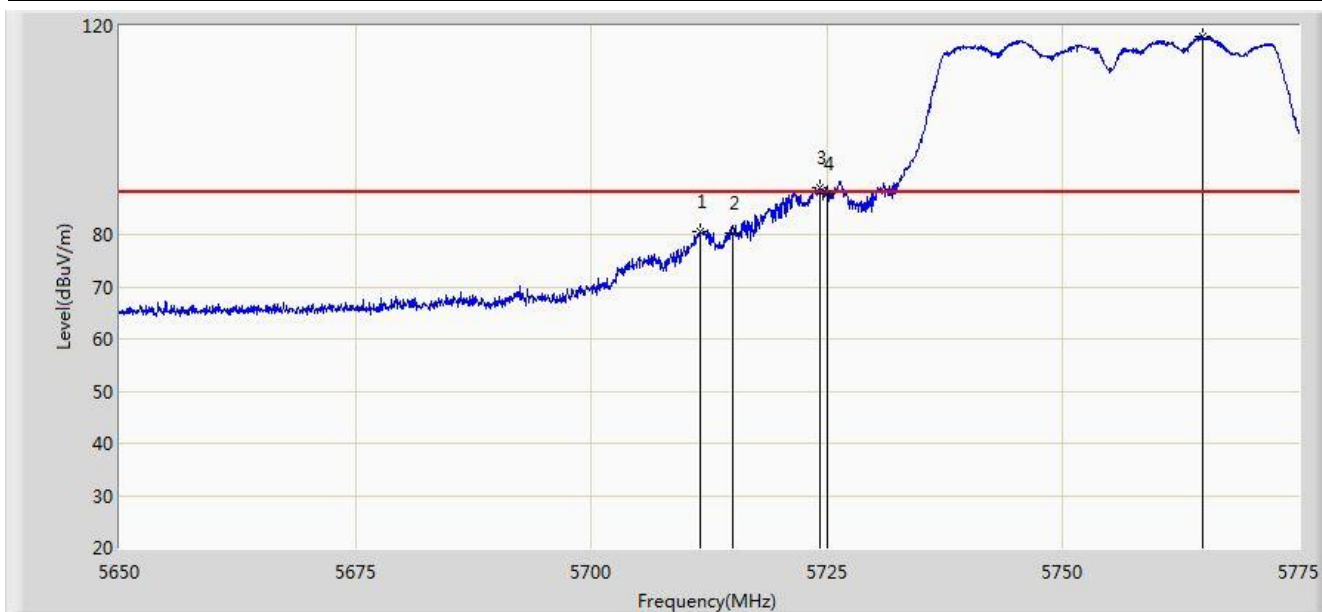


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5712.937        | 54.043                 | 16.102               | -14.157         | 68.200         | 37.941      | AV   |
| 2  |      |      | 5715.000        | 53.940                 | 15.991               | -14.260         | 68.200         | 37.949      | AV   |
| 3  |      |      | 5725.000        | 54.309                 | 16.319               | -23.891         | 78.200         | 37.990      | AV   |
| 4  |      | *    | 5771.250        | 95.145                 | 56.976               | N/A             | N/A            | 38.169      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:40 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5755MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5711.625        | 80.504                 | 42.568               | -7.696          | 88.200         | 37.936      | PK   |
| 2  |      |      | 5715.000        | 80.183                 | 42.234               | -8.017          | 88.200         | 37.949      | PK   |
| 3  |      |      | 5724.250        | 88.875                 | 50.888               | -9.325          | 98.200         | 37.987      | PK   |
| 4  |      |      | 5725.000        | 87.686                 | 49.696               | -10.514         | 98.200         | 37.990      | PK   |
| 5  |      | *    | 5764.812        | 117.913                | 79.760               | N/A             | N/A            | 38.153      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:41 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5755MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

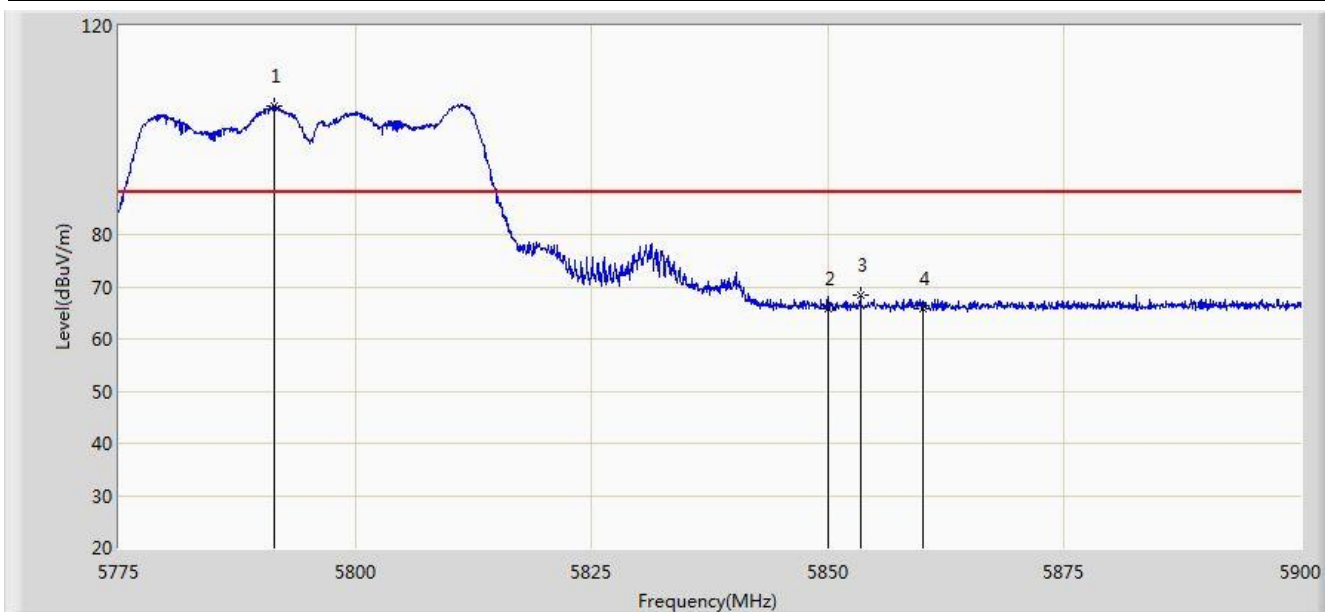


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5715.000        | 63.940                 | 25.991               | -4.260          | 68.200         | 37.949      | AV   |
| 2  |      |      | 5725.000        | 68.418                 | 30.428               | -9.782          | 78.200         | 37.990      | AV   |
| 3  |      | *    | 5771.812        | 105.575                | 67.405               | N/A             | N/A            | 38.171      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:43 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5795MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

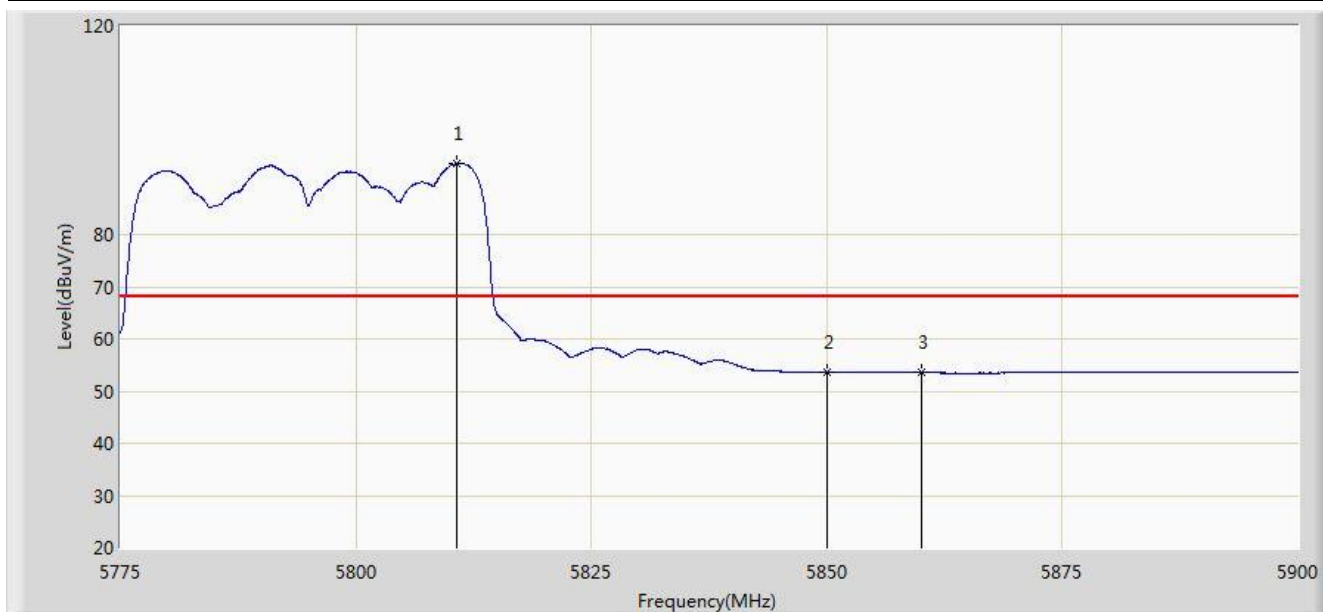


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5791.437        | 104.675                | 66.439               | N/A             | N/A            | 38.236      | PK   |
| 2  |      |      | 5850.000        | 65.840                 | 27.387               | -32.360         | 98.200         | 38.454      | PK   |
| 3  |      |      | 5853.437        | 68.448                 | 29.986               | -29.752         | 98.200         | 38.462      | PK   |
| 4  |      |      | 5860.000        | 65.916                 | 27.438               | -22.284         | 88.200         | 38.478      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:45 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5795MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

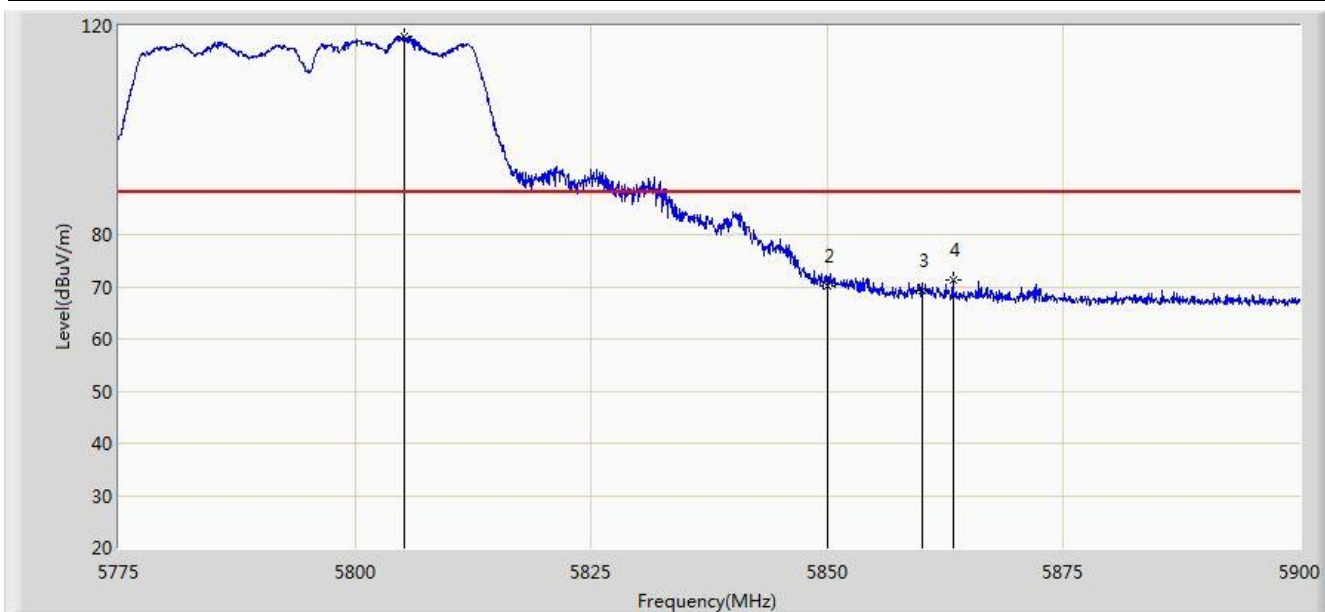


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5810.687        | 93.616                 | 55.320               | N/A             | N/A            | 38.296      | AV   |
| 2  |      |      | 5850.000        | 53.627                 | 15.174               | -24.573         | 78.200         | 38.454      | AV   |
| 3  |      |      | 5860.000        | 53.578                 | 15.100               | -14.622         | 68.200         | 38.478      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:49 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5795MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

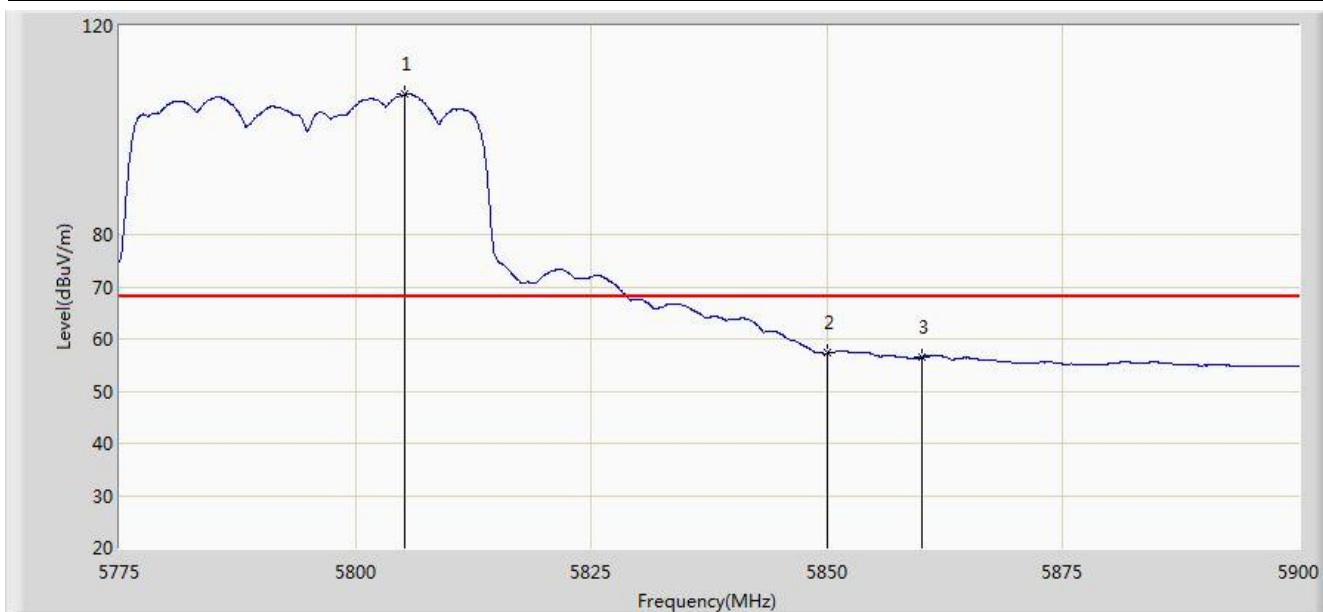


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5805.250        | 117.850                | 79.570               | N/A             | N/A            | 38.280      | PK   |
| 2  |      |      | 5850.000        | 70.185                 | 31.732               | -28.015         | 98.200         | 38.454      | PK   |
| 3  |      |      | 5860.000        | 69.291                 | 30.813               | -18.909         | 88.200         | 38.478      | PK   |
| 4  |      |      | 5863.312        | 71.318                 | 32.834               | -16.882         | 88.200         | 38.484      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 17:51 |
| Limit: FCC 15.407                                                    | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5795MHz by 802.11ac-VHT40 Ant 0+1+2+3 |                          |

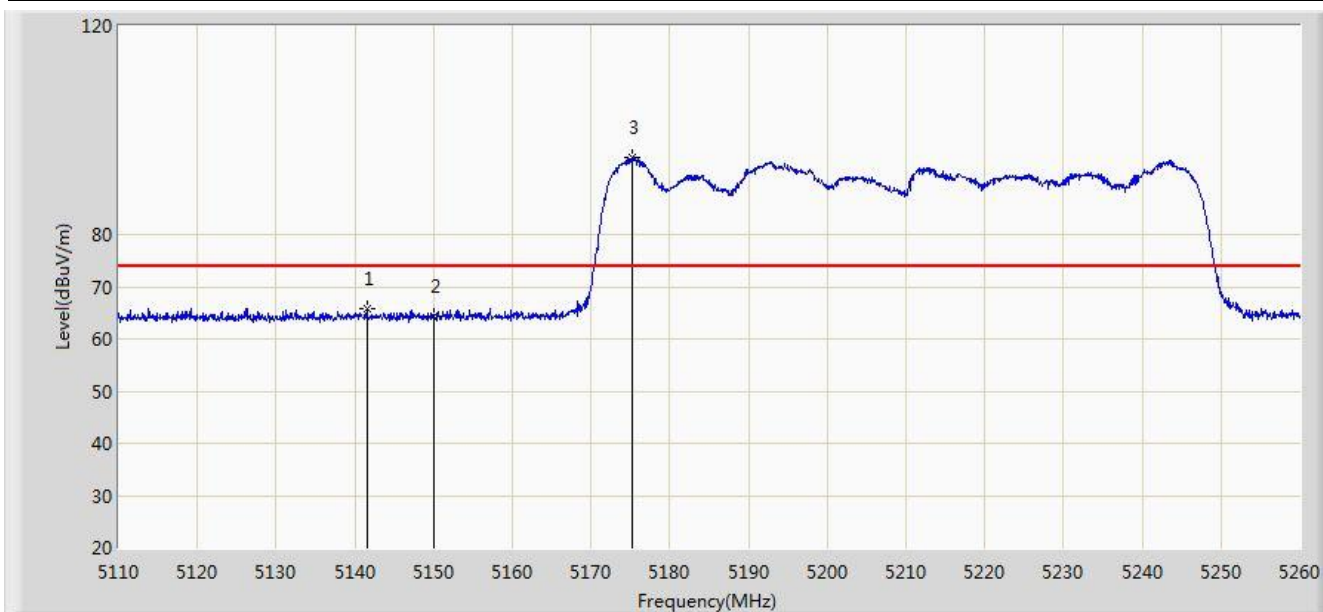


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5805.250        | 106.887                | 68.607               | N/A             | N/A            | 38.280      | AV   |
| 2  |      |      | 5850.000        | 57.271                 | 18.818               | -20.929         | 78.200         | 38.454      | AV   |
| 3  |      |      | 5860.000        | 56.472                 | 17.994               | -11.728         | 68.200         | 38.478      | AV   |

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 20:35 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 0+1+2+3 |                          |

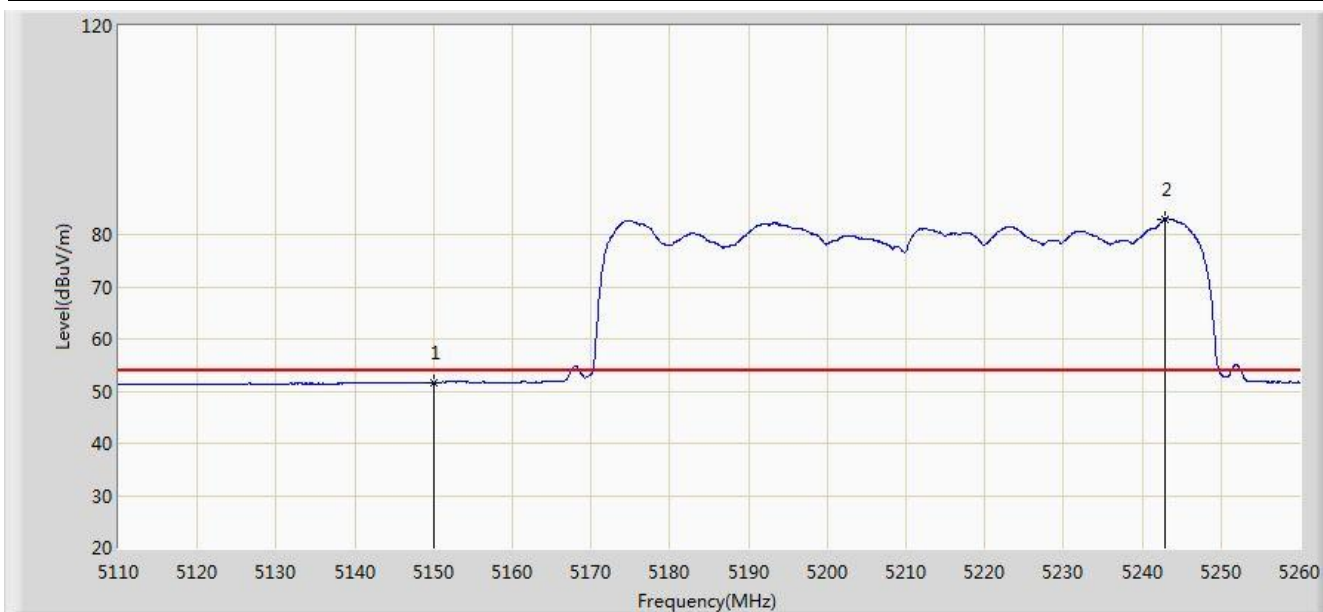


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5141.500        | 65.913                 | 28.448               | -8.087          | 74.000         | 37.465      | PK   |
| 2  |      |      | 5150.000        | 64.343                 | 26.891               | -9.657          | 74.000         | 37.452      | PK   |
| 3  |      | *    | 5175.175        | 94.752                 | 57.367               | N/A             | N/A            | 37.385      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 20:35 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 0+1+2+3 |                          |

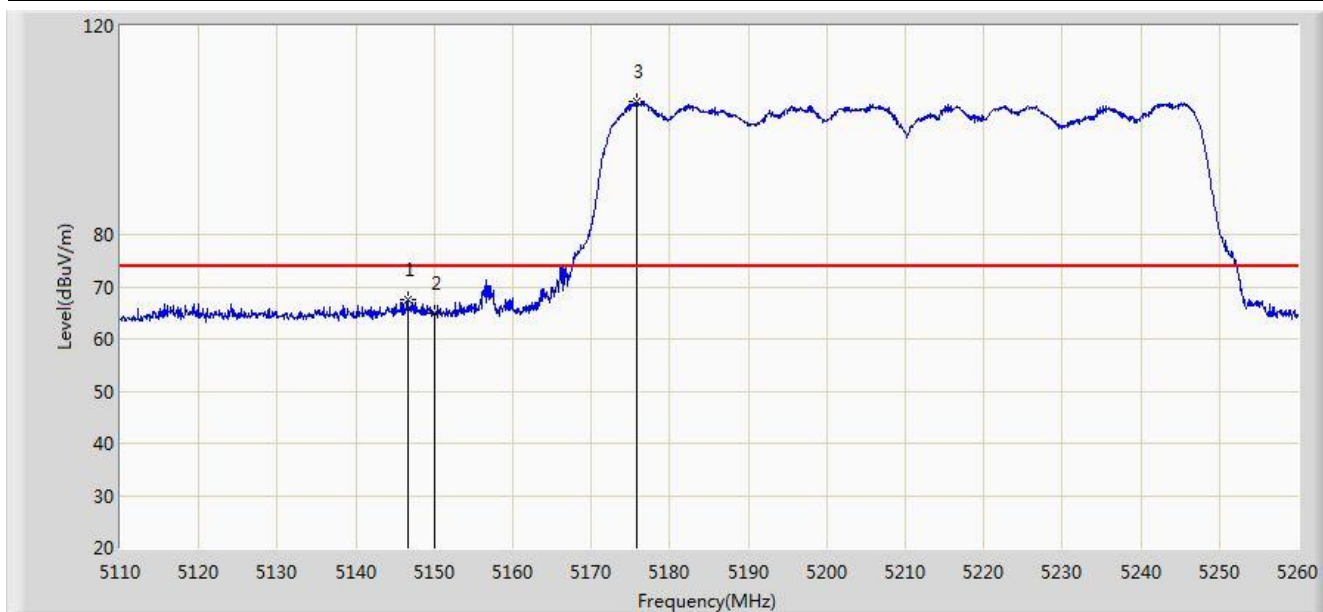


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5150.000        | 51.611                 | 14.159               | -2.389          | 54.000         | 37.452      | AV   |
| 2  |      | *    | 5242.900        | 83.030                 | 45.821               | N/A             | N/A            | 37.210      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 20:43 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 0+1+2+3 |                          |

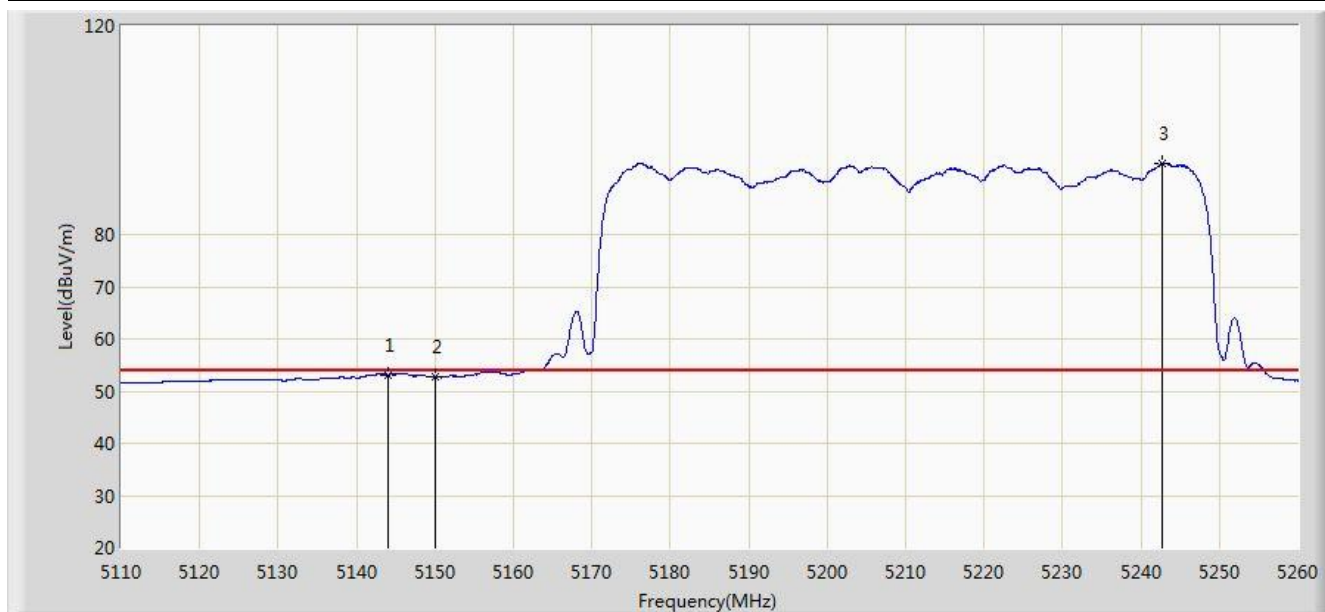


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5146.600        | 67.479                 | 30.022               | -6.521          | 74.000         | 37.457      | PK   |
| 2  |      |      | 5150.000        | 64.875                 | 27.423               | -9.125          | 74.000         | 37.452      | PK   |
| 3  |      | *    | 5175.700        | 105.400                | 68.017               | N/A             | N/A            | 37.384      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2015/02/11 - 20:39 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit at channel 5210MHz by 802.11ac-VHT80 Ant 0+1+2+3 |                          |

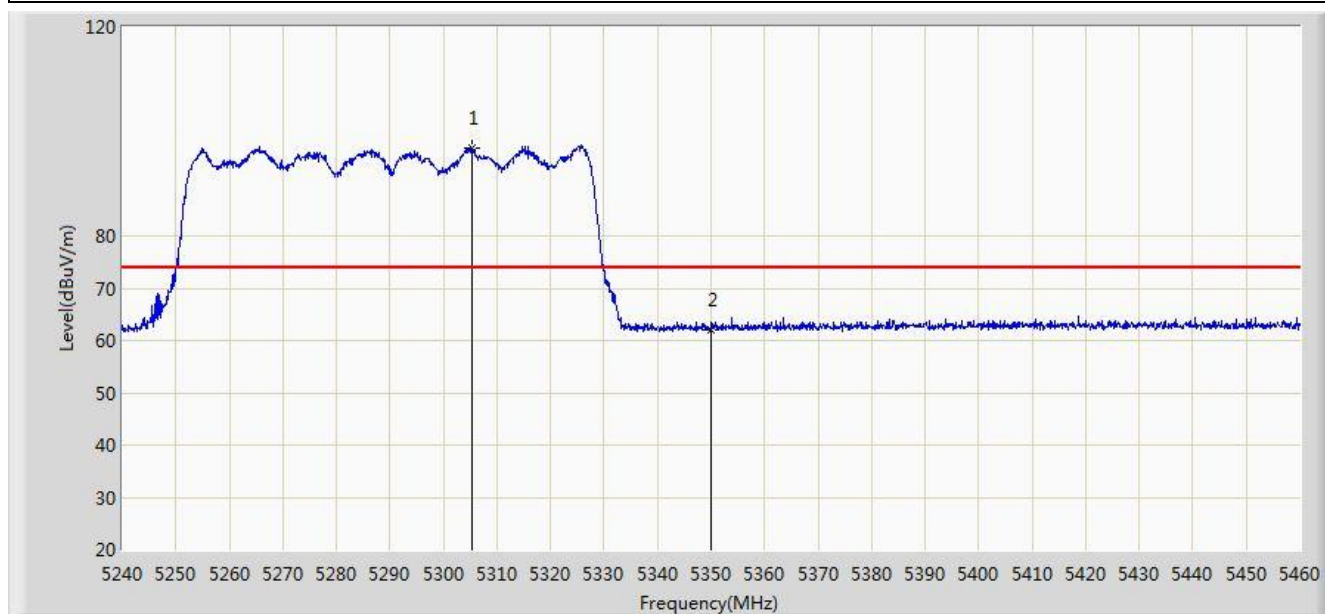


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5143.975        | 53.140                 | 15.679               | -0.860          | 54.000         | 37.461      | AV   |
| 2  |      |      | 5150.000        | 52.733                 | 15.281               | -1.267          | 54.000         | 37.452      | AV   |
| 3  |      | *    | 5242.675        | 93.492                 | 56.282               | N/A             | N/A            | 37.210      | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:26 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5290MHz Ant 0+1+2+3 |                          |

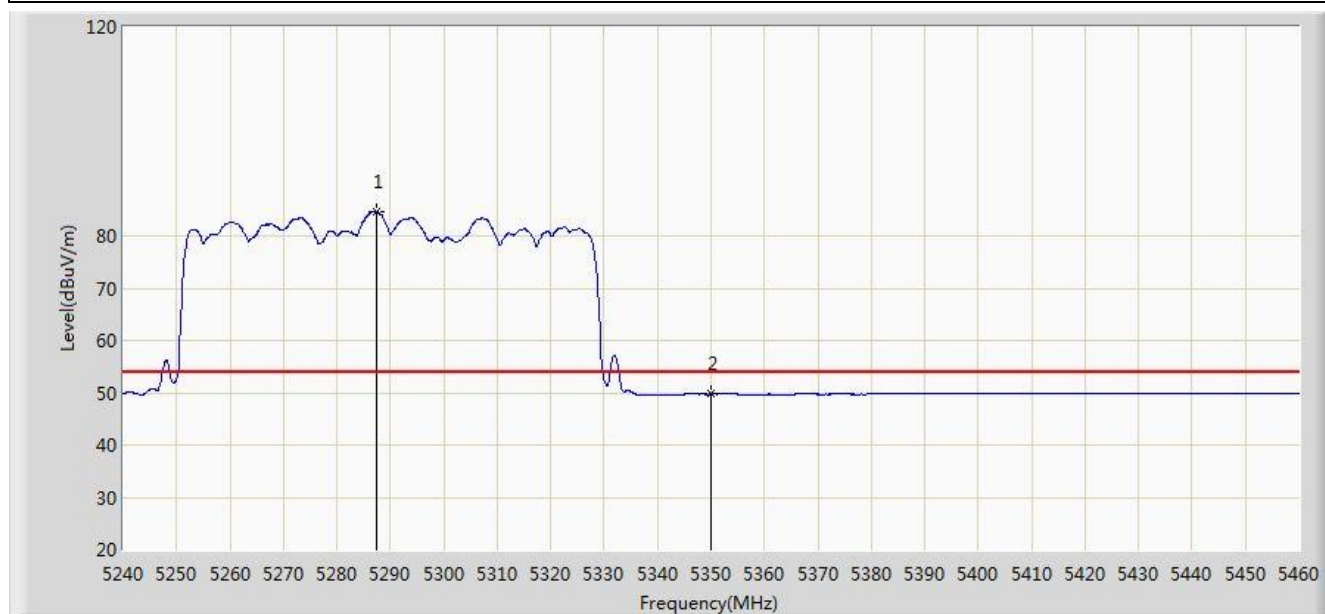


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5305.230        | 96.732                 | 60.289               | N/A             | N/A            | 36.442      | PK   |
| 2  |      |      | 5350.000        | 62.074                 | 25.538               | -11.926         | 74.000         | 36.536      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:29 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5290MHz Ant 0+1+2+3 |                          |

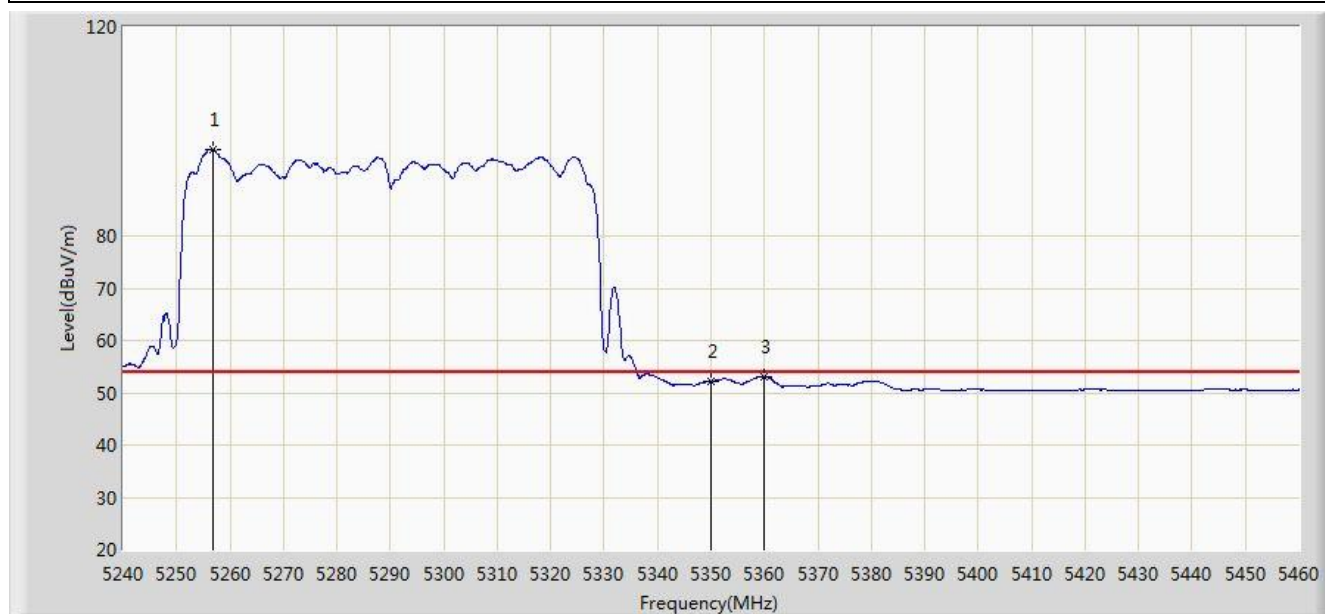


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5287.410        | 84.640                 | 48.208               | N/A             | N/A            | 36.432      | AV   |
| 2  |      |      | 5350.000        | 49.745                 | 13.209               | -4.255          | 54.000         | 36.536      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:34 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5290MHz Ant 0+1+2+3 |                          |

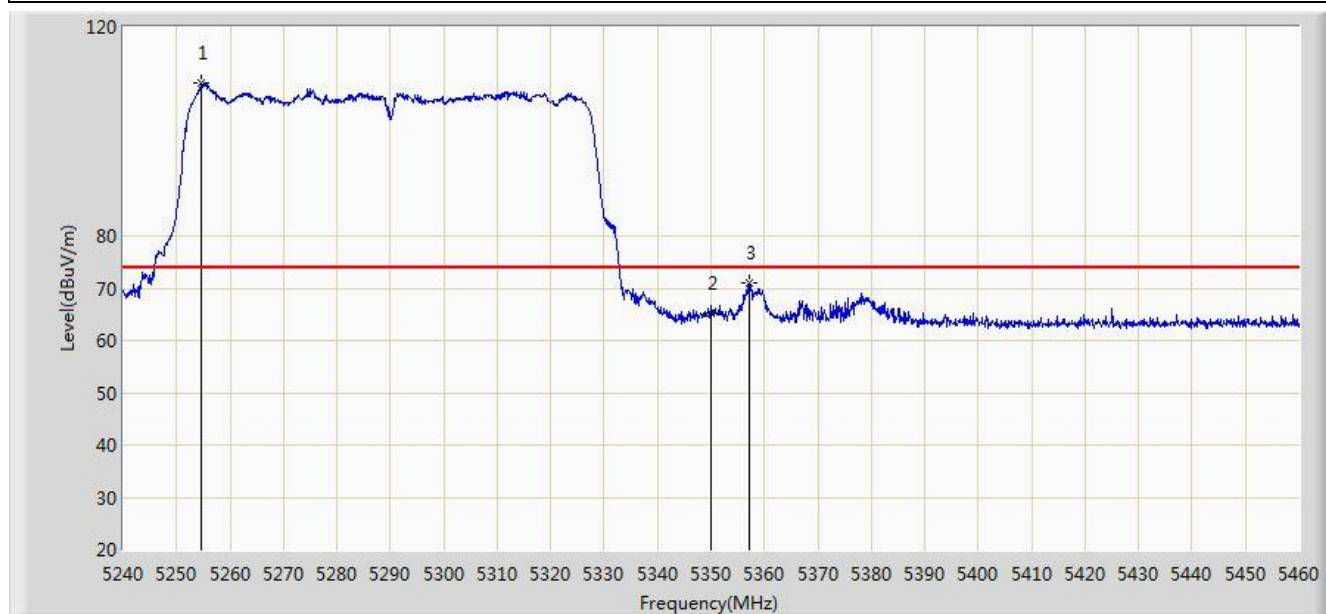


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5256.830        | 96.562                 | 60.101               | N/A             | N/A            | 36.462      | AV   |
| 2  |      |      | 5350.000        | 52.195                 | 15.659               | -1.805          | 54.000         | 36.536      | AV   |
| 3  |      |      | 5360.010        | 53.085                 | 16.525               | -0.915          | 54.000         | 36.560      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:34 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5290MHz Ant 0+1+2+3 |                          |

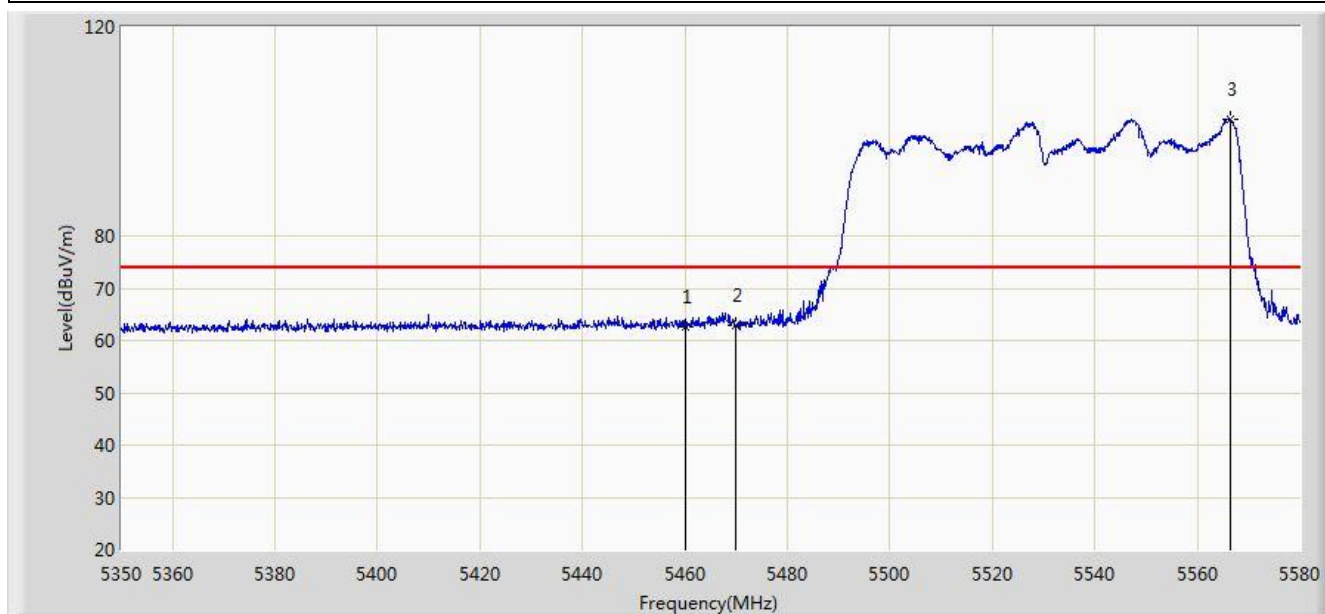


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 5254.740        | 109.345                | 72.882               | N/A             | N/A            | 36.466      | PK   |
| 2  |      |      | 5350.000        | 65.269                 | 28.733               | -8.731          | 74.000         | 36.536      | PK   |
| 3  |      |      | 5357.040        | 71.146                 | 34.594               | -2.854          | 74.000         | 36.553      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:38 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5530MHz Ant 0+1+2+3 |                          |

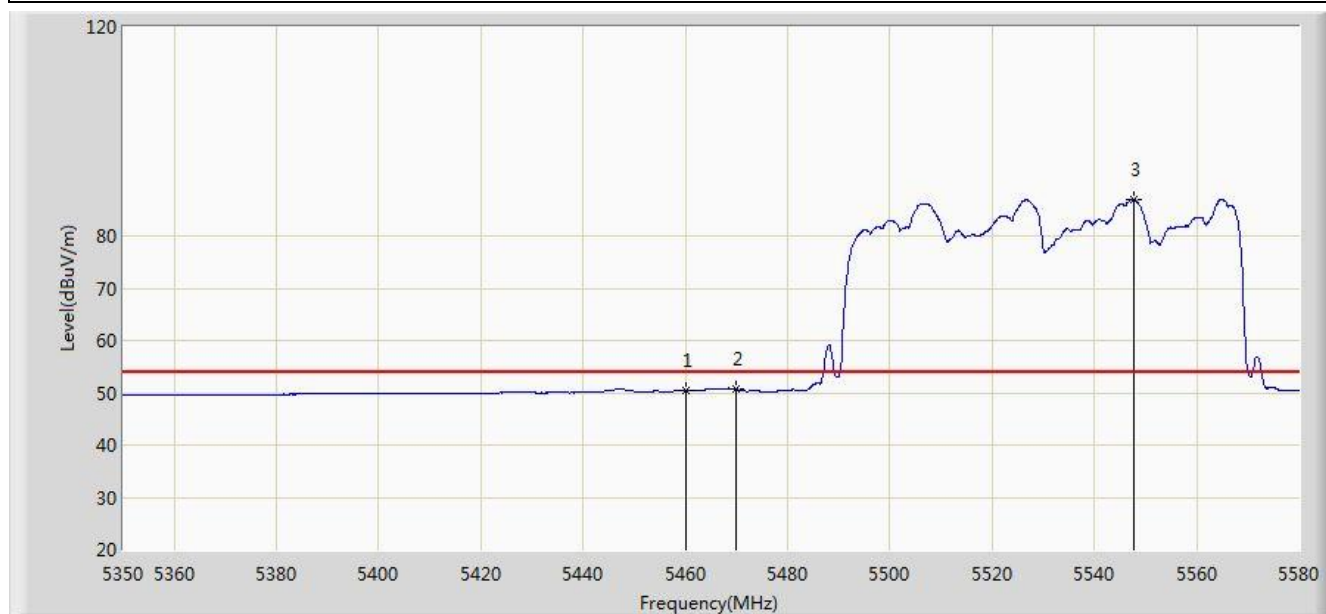


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 62.521                 | 25.711               | -11.479         | 74.000         | 36.810      | PK   |
| 2  |      |      | 5470.000        | 62.927                 | 26.102               | -11.073         | 74.000         | 36.825      | PK   |
| 3  |      | *    | 5566.315        | 102.263                | 65.337               | N/A             | N/A            | 36.926      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:41 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Horizontal     |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5530MHz Ant 0+1+2+3 |                          |

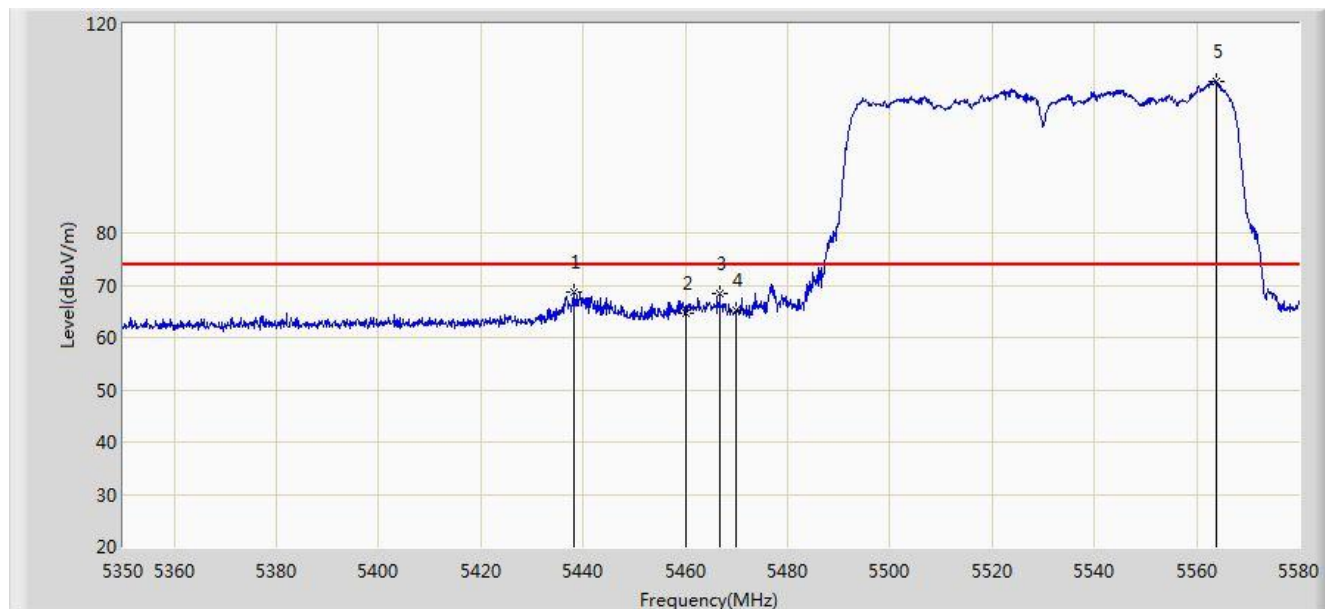


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 50.433                 | 13.623               | -3.567          | 54.000         | 36.810      | AV   |
| 2  |      |      | 5470.000        | 50.622                 | 13.797               | -3.378          | 54.000         | 36.825      | AV   |
| 3  |      | *    | 5547.685        | 87.009                 | 50.079               | N/A             | N/A            | 36.930      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:51 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5530MHz Ant 0+1+2+3 |                          |

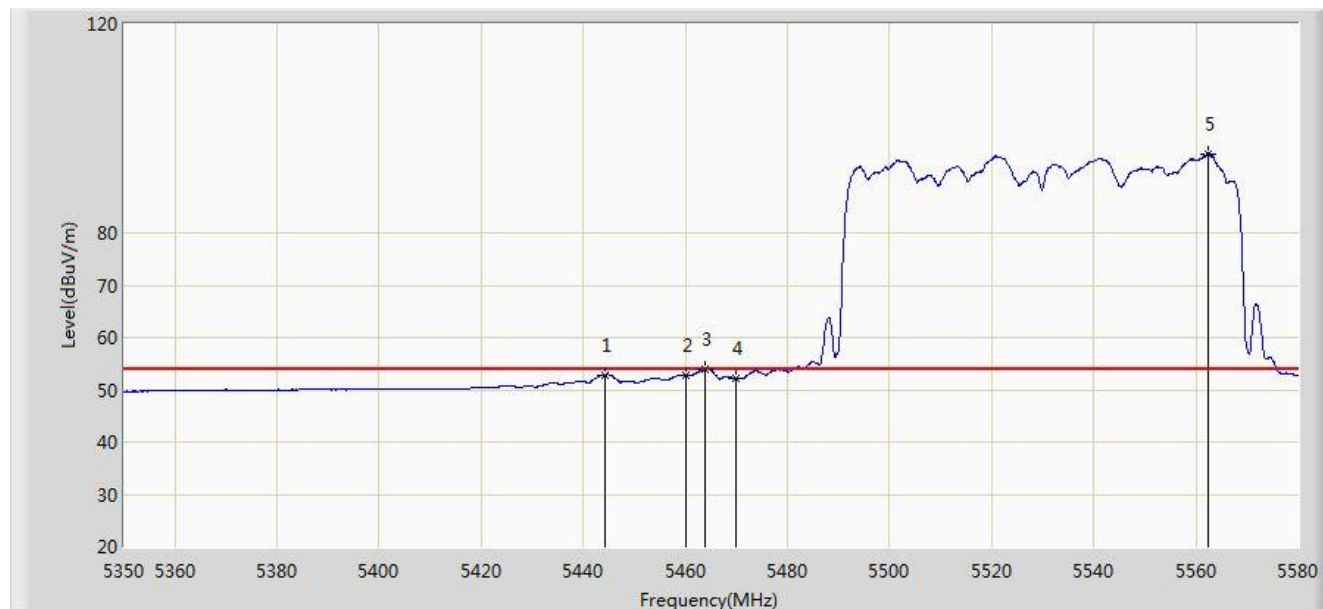


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5438.320        | 68.648                 | 31.884               | -5.352          | 74.000         | 36.764      | PK   |
| 2  |      |      | 5460.000        | 64.772                 | 27.962               | -9.228          | 74.000         | 36.810      | PK   |
| 3  |      |      | 5466.725        | 68.546                 | 31.726               | -5.454          | 74.000         | 36.820      | PK   |
| 4  |      |      | 5470.000        | 65.113                 | 28.288               | -8.887          | 74.000         | 36.825      | PK   |
| 5  |      | *    | 5563.900        | 108.871                | 71.946               | 34.871          | 74.000         | 36.925      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                                      |                          |
|----------------------------------------------------------------------|--------------------------|
| Site: AC1                                                            | Time: 2014/07/18 - 16:47 |
| Limit: FCC_Part15.209_RE(3m)                                         | Engineer: Roy Cheng      |
| Probe: BBHA9120D_1-18GHz                                             | Polarity: Vertical       |
| EUT: WIFI dual band 4 GE LAN GPON HGU                                | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5530MHz Ant 0+1+2+3 |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 5444.300        | 52.841                 | 16.063               | -1.159          | 54.000         | 36.778      | AV   |
| 2  |      |      | 5460.000        | 52.776                 | 15.966               | -1.224          | 54.000         | 36.810      | AV   |
| 3  |      |      | 5463.965        | 53.849                 | 15.033               | -0.151          | 54.000         | 36.816      | AV   |
| 4  |      |      | 5470.000        | 52.085                 | 15.260               | -1.915          | 54.000         | 36.825      | AV   |
| 5  |      | *    | 5562.405        | 95.153                 | 58.228               | N/A             | N/A            | 36.925      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

## 7.10. AC Conducted Emissions Measurement

### 7.10.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 |                 |                 |
|----------------------------------------|-----------------|-----------------|
| Frequency (MHz)                        | QP (dB $\mu$ V) | AV (dB $\mu$ V) |
| 0.15 - 0.50                            | 66 - 56         | 56 - 46         |
| 0.50 - 5.0                             | 56              | 46              |
| 5.0 - 30                               | 60              | 50              |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

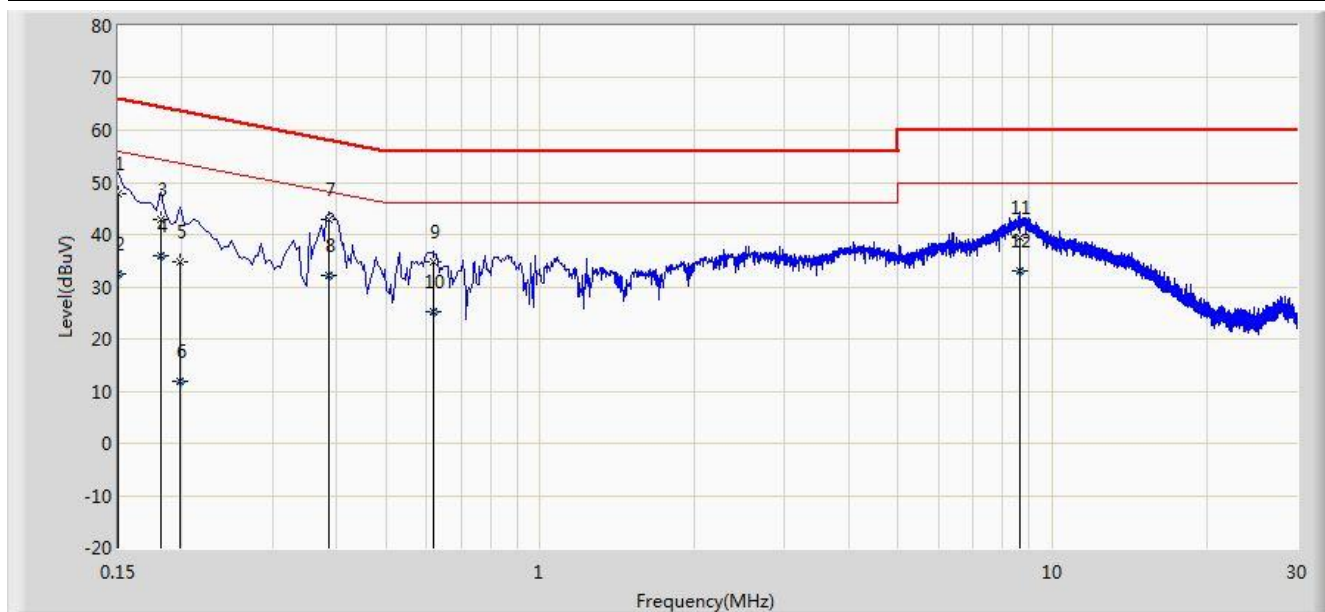
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

The diagram illustrates the measurement setup. A Non-conductive table is positioned 0.8 m from the ground plane. On the table, an EUT (Equipment Under Test) and an Adapter are connected by a cable. The Adapter is connected to an AMN (Antenna Measurement Network) located 0.4 m from the vertical ground reference plane. The AMN is bonded to the horizontal ground plane. A spectrum analyzer is connected to the AMN and displays a signal on its screen.

#### 7.10.4. Test Result

|                                       |                          |
|---------------------------------------|--------------------------|
| Site: SR2                             | Time: 2015/01/31 - 19:16 |
| Limit: FCC_Part15.207_CE_ClassB       | Engineer: Roy Cheng      |
| Probe: ENV216_101683_Filter On        | Polarity: Line           |
| EUT: WIFI dual band 4 GE LAN GPON HGU | Power: AC 120V/60Hz      |
| Note: Mode 1                          |                          |

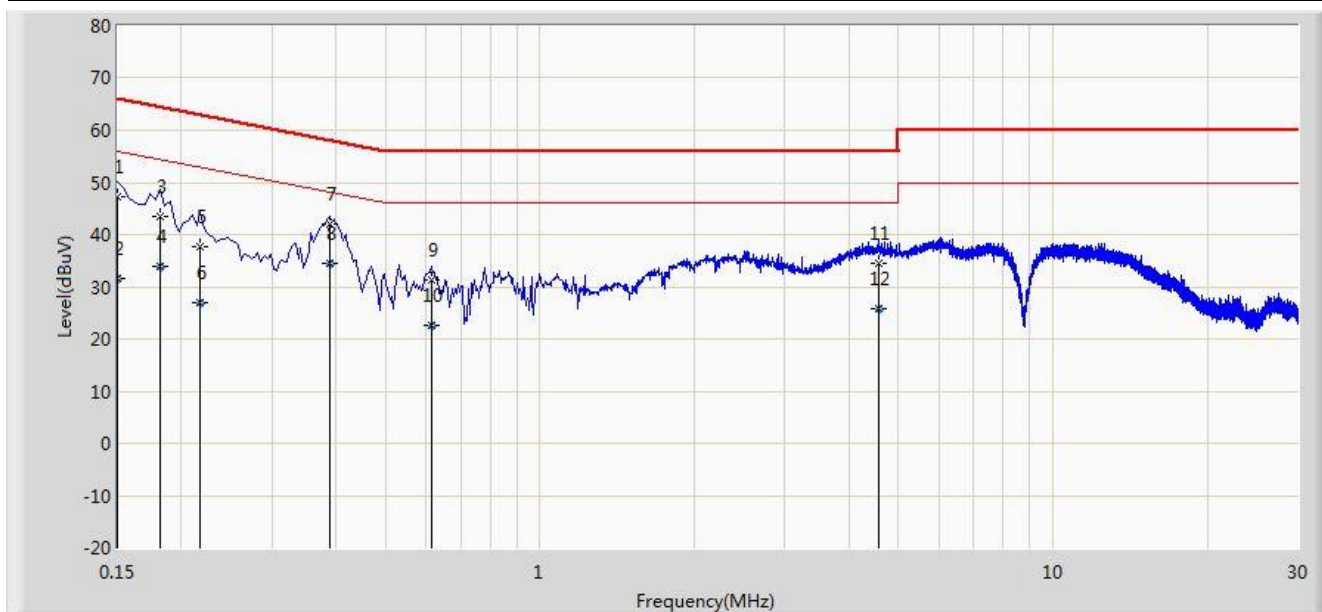


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.150           | 47.724               | 36.582               | -18.276         | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 32.331               | 21.189               | -23.669         | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.182           | 42.838               | 32.795               | -21.556         | 64.394       | 10.042      | QP   |
| 4  |      |      | 0.182           | 35.867               | 25.825               | -18.527         | 54.394       | 10.042      | AV   |
| 5  |      |      | 0.198           | 34.756               | 24.742               | -28.938         | 63.694       | 10.015      | QP   |
| 6  |      |      | 0.198           | 11.826               | 1.811                | -41.868         | 53.694       | 10.015      | AV   |
| 7  |      | *    | 0.386           | 42.872               | 32.770               | -15.277         | 58.149       | 10.102      | QP   |
| 8  |      |      | 0.386           | 32.098               | 21.996               | -16.051         | 48.149       | 10.102      | AV   |
| 9  |      |      | 0.618           | 34.905               | 24.783               | -21.095         | 56.000       | 10.121      | QP   |
| 10 |      |      | 0.618           | 25.260               | 15.139               | -20.740         | 46.000       | 10.121      | AV   |
| 11 |      |      | 8.630           | 39.359               | 29.161               | -20.641         | 60.000       | 10.199      | QP   |
| 12 |      |      | 8.630           | 32.975               | 22.777               | -17.025         | 50.000       | 10.199      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

|                                       |                          |
|---------------------------------------|--------------------------|
| Site: SR2                             | Time: 2015/01/31 - 19:20 |
| Limit: FCC_Part15.207_CE_ClassB       | Engineer: Roy Cheng      |
| Probe: ENV216_101683_Filter On        | Polarity: Neutral        |
| EUT: WIFI dual band 4 GE LAN GPON HGU | Power: AC 120V/60Hz      |
| Note: Mode 1                          |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.150           | 47.154               | 36.012               | -18.846         | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 31.458               | 20.316               | -24.542         | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.182           | 43.519               | 33.476               | -20.875         | 64.394       | 10.042      | QP   |
| 4  |      |      | 0.182           | 34.031               | 23.988               | -20.363         | 54.394       | 10.042      | AV   |
| 5  |      |      | 0.218           | 37.691               | 27.710               | -25.204         | 62.895       | 9.981       | QP   |
| 6  |      |      | 0.218           | 26.953               | 16.972               | -25.942         | 52.895       | 9.981       | AV   |
| 7  |      |      | 0.390           | 42.100               | 31.995               | -15.964         | 58.064       | 10.105      | QP   |
| 8  |      | *    | 0.390           | 34.369               | 24.265               | -13.694         | 48.064       | 10.105      | AV   |
| 9  |      |      | 0.614           | 31.375               | 21.251               | -24.625         | 56.000       | 10.124      | QP   |
| 10 |      |      | 0.614           | 22.489               | 12.366               | -23.511         | 46.000       | 10.124      | AV   |
| 11 |      |      | 4.586           | 34.458               | 24.453               | -21.542         | 56.000       | 10.005      | QP   |
| 12 |      |      | 4.586           | 25.669               | 15.664               | -20.331         | 46.000       | 10.005      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **WIFI dual band 4 GE LAN GPON HGU FCC ID: 2ABLK-8X4G-1V2** is in compliance with Part 15E of the FCC Rules.

## Annex 1

### Output Power Measurement

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Ant 2 Average Power (dBm) | Ant 3 Average Power (dBm) | Total Average Power (dBm) | Limit (dBm) | Result |
|-----------|------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------|--------|
| 11a       | 6                | 36          | 5180        | 16.02                     | 16.61                     | 16.03                     | 16.34                     | 22.28                     | ≤27.96      | Pass   |
| 11a       | 6                | 44          | 5220        | 18.11                     | 18.12                     | 17.82                     | 18.25                     | 24.10                     | ≤27.96      | Pass   |
| 11a       | 6                | 48          | 5240        | 17.81                     | 18.22                     | 17.81                     | 18.02                     | 23.99                     | ≤27.96      | Pass   |
| 11a       | 6                | 52          | 5260        | 14.54                     | 14.30                     | 13.67                     | 14.46                     | 20.28                     | ≤22.22      | Pass   |
| 11a       | 6                | 60          | 5300        | 14.57                     | 14.45                     | 13.83                     | 14.72                     | 20.43                     | ≤22.22      | Pass   |
| 11a       | 6                | 64          | 5320        | 14.62                     | 14.50                     | 14.08                     | 14.54                     | 20.46                     | ≤22.22      | Pass   |
| 11a       | 6                | 100         | 5500        | 14.29                     | 13.74                     | 13.19                     | 13.88                     | 19.81                     | ≤21.62      | Pass   |
| 11a       | 6                | 120         | 5600        | 14.18                     | 13.96                     | 12.67                     | 13.77                     | 19.70                     | ≤21.62      | Pass   |
| 11a       | 6                | 140         | 5700        | 13.26                     | 13.74                     | 12.02                     | 12.54                     | 18.96                     | ≤21.62      | Pass   |
| 11a       | 6                | 149         | 5745        | 20.63                     | 20.93                     | 20.84                     | 21.46                     | 27.00                     | ≤27.30      | Pass   |
| 11a       | 6                | 157         | 5785        | 20.18                     | 20.53                     | 20.91                     | 21.68                     | 26.88                     | ≤27.30      | Pass   |
| 11a       | 6                | 165         | 5825        | 20.46                     | 20.73                     | 21.00                     | 21.37                     | 26.92                     | ≤27.30      | Pass   |

Note: The Total Average Power (dBm) =  $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ .

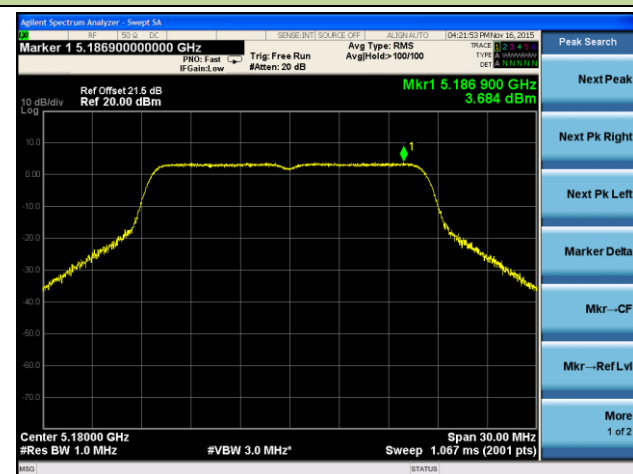
## Power Spectral Density Measurement

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-----------|------------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------|-----------------|--------|
| 11a       | 6                | 36          | 5180        | 3.68                | 3.94                | 4.08                | 4.06                | 98.9           | 9.96                | ≤14.96          | Pass   |
| 11a       | 6                | 44          | 5220        | 5.00                | 6.43                | 6.12                | 5.96                | 98.9           | 11.93               | ≤14.96          | Pass   |
| 11a       | 6                | 48          | 5240        | 5.81                | 4.17                | 6.21                | 5.89                | 98.9           | 11.61               | ≤14.96          | Pass   |
| 11a       | 6                | 52          | 5260        | 1.59                | 2.16                | 2.07                | 2.47                | 98.9           | 8.10                | ≤9.22           | Pass   |
| 11a       | 6                | 60          | 5300        | 1.72                | 1.96                | 2.01                | 1.05                | 98.9           | 7.72                | ≤9.22           | Pass   |
| 11a       | 6                | 64          | 5320        | 1.62                | 1.66                | 1.79                | 0.99                | 98.9           | 7.55                | ≤9.22           | Pass   |
| 11a       | 6                | 100         | 5500        | 1.92                | 2.05                | 1.34                | 1.08                | 98.9           | 7.64                | ≤8.62           | Pass   |
| 11a       | 6                | 120         | 5600        | 2.57                | 1.93                | 2.59                | 1.29                | 98.9           | 8.15                | ≤8.62           | Pass   |
| 11a       | 6                | 140         | 5700        | 1.08                | 1.86                | -0.14               | -0.81               | 98.9           | 6.64                | ≤8.62           | Pass   |

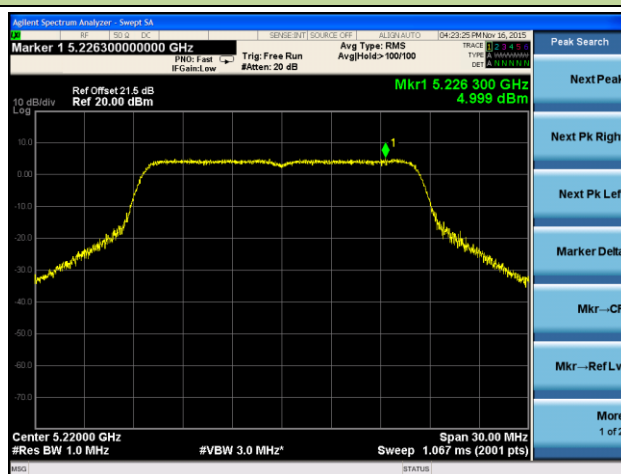
Note: When EUT duty cycle < 98%, the total PSD =  $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

# 802.11a Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

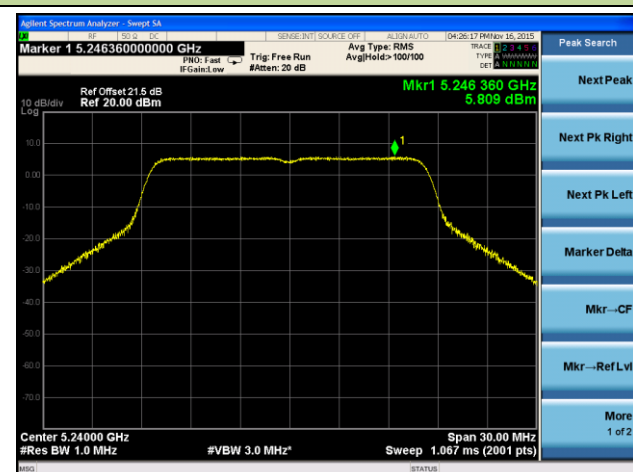
## Channel 36 (5180MHz)



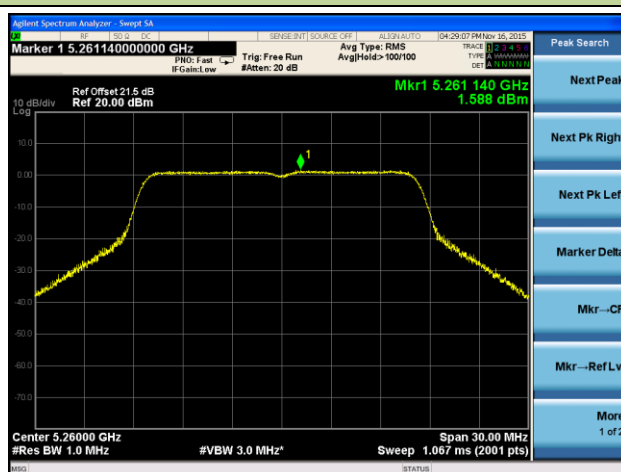
## Channel 44 (5220MHz)



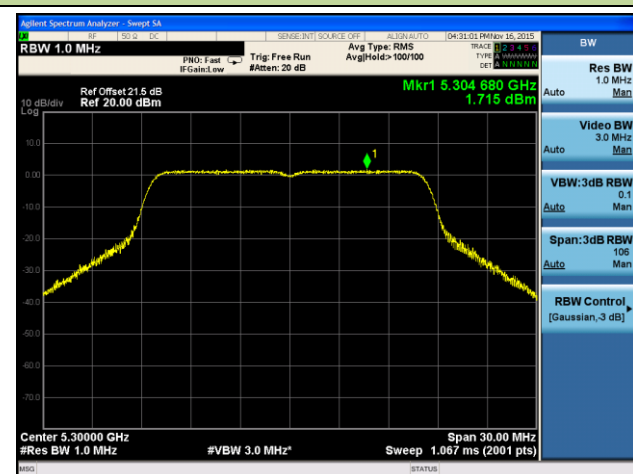
## Channel 48 (5240MHz)



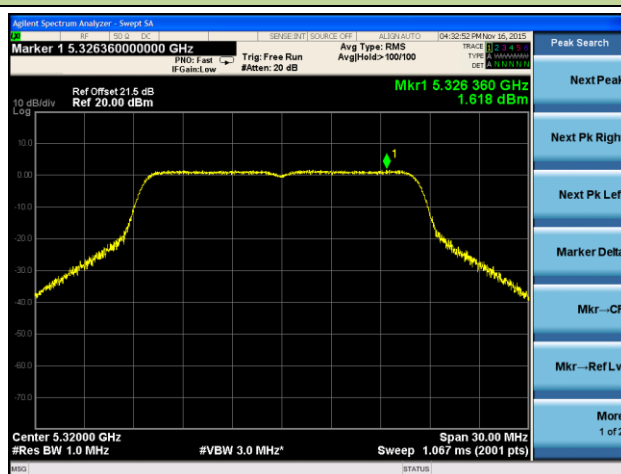
## Channel 52 (5260MHz)



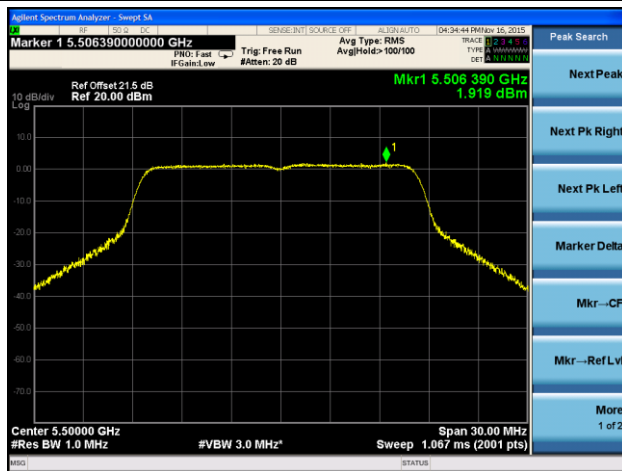
## Channel 60 (5300MHz)



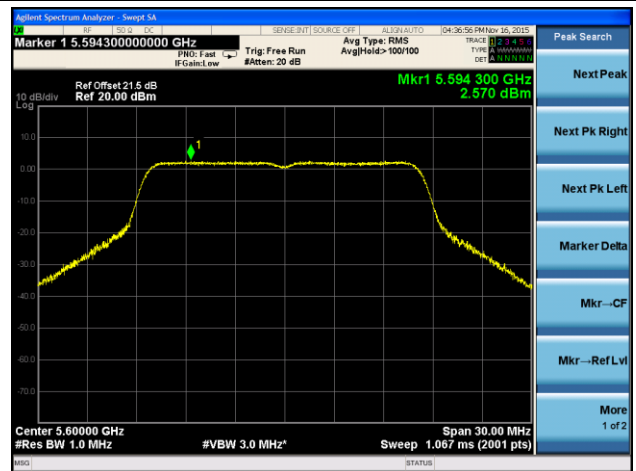
## Channel 64 (5320MHz)



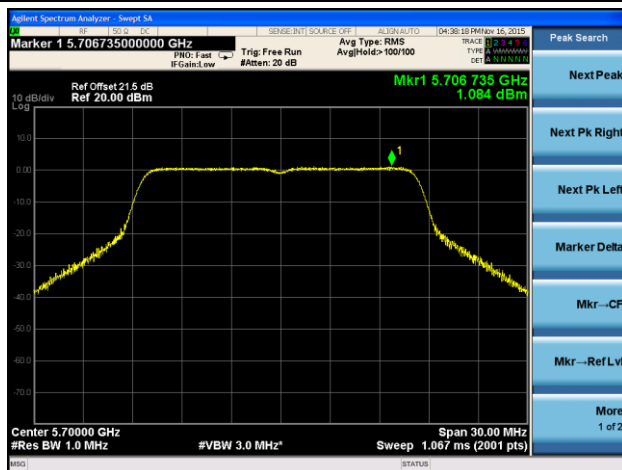
### Channel 100 (5500MHz)



### Channel 120 (5600MHz)

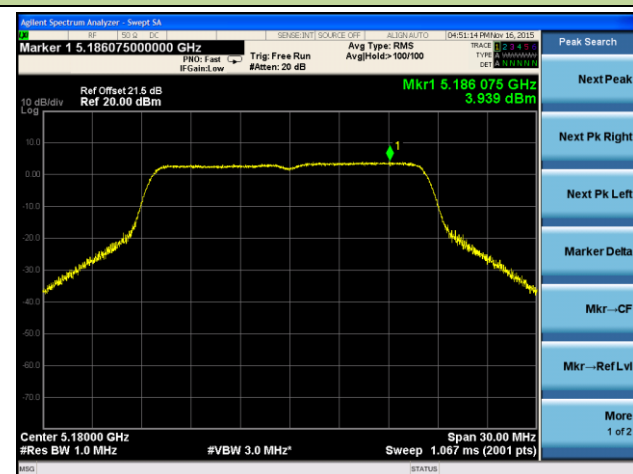


### Channel 140 (5700MHz)

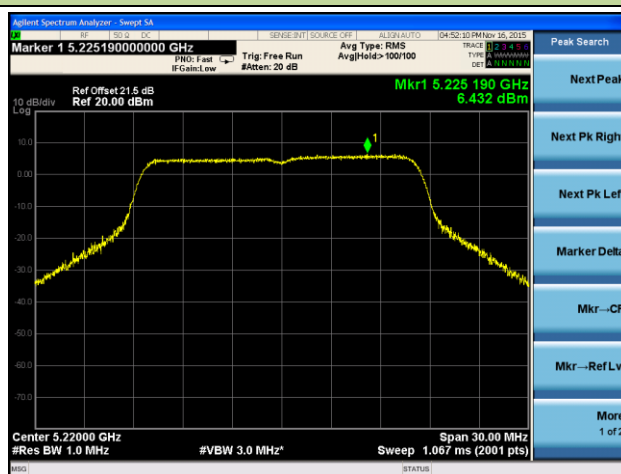


# 802.11a Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

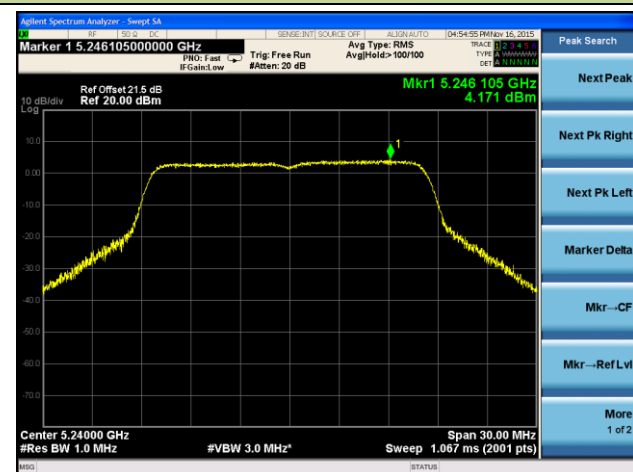
Channel 36 (5180MHz)



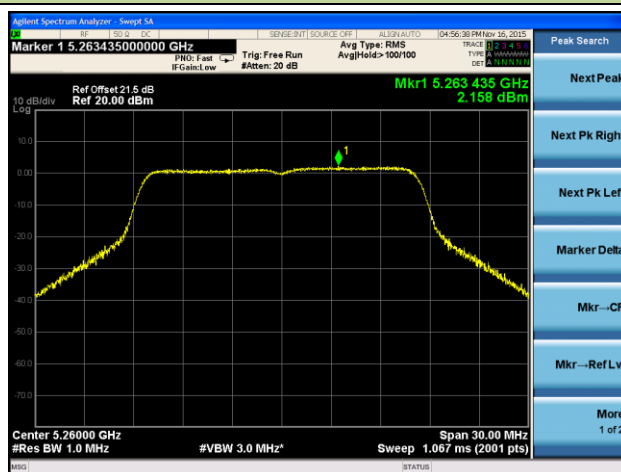
Channel 44 (5220MHz)



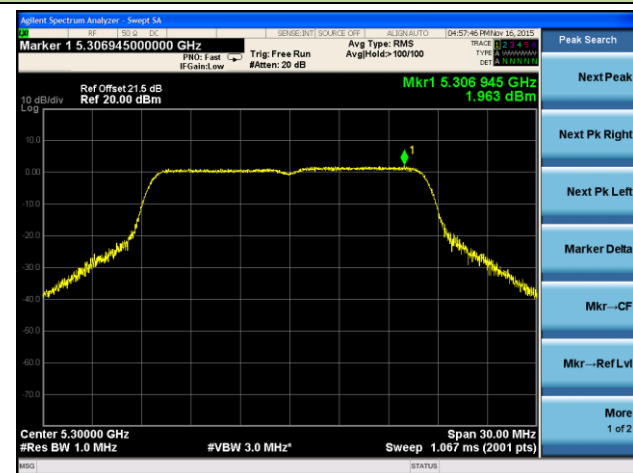
Channel 48 (5240MHz)



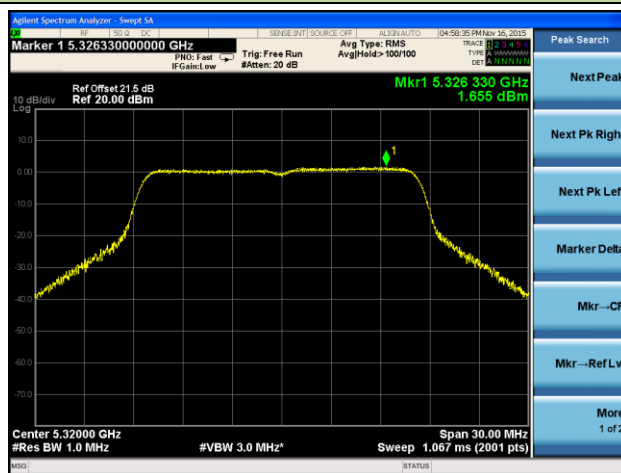
Channel 52 (5260MHz)



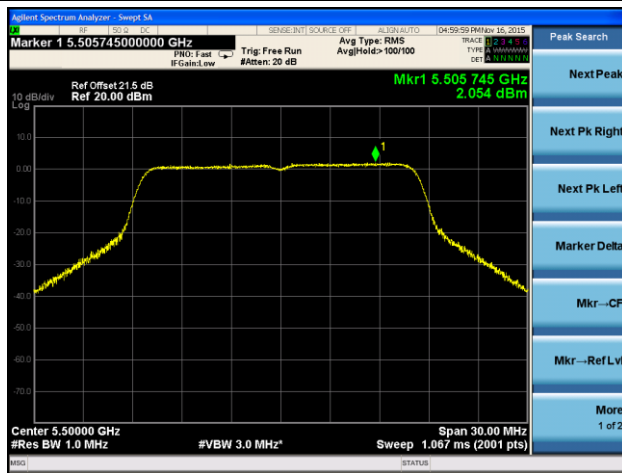
Channel 60 (5300MHz)



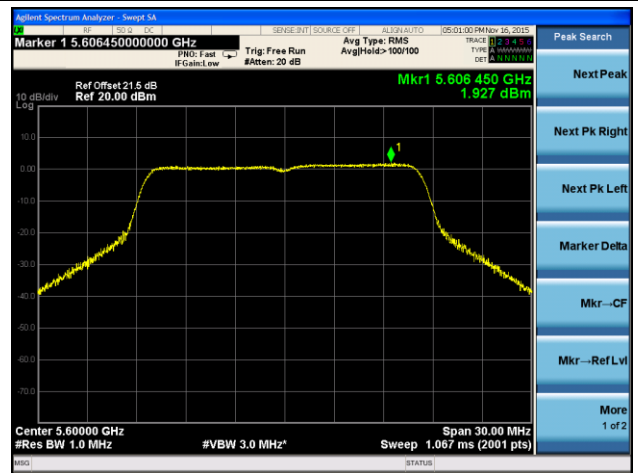
Channel 64 (5320MHz)



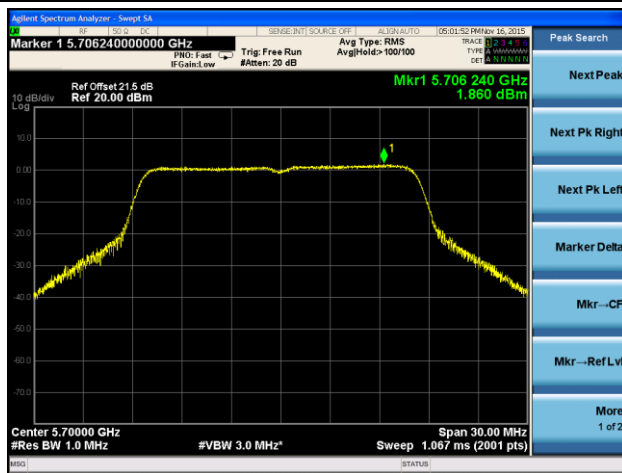
### Channel 100 (5500MHz)



### Channel 120 (5600MHz)

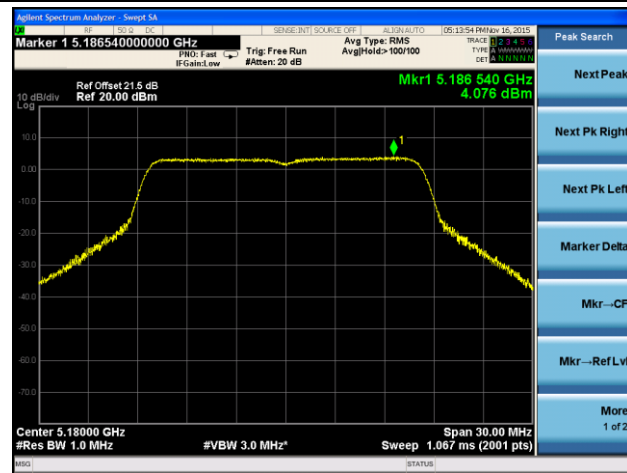


### Channel 140 (5700MHz)

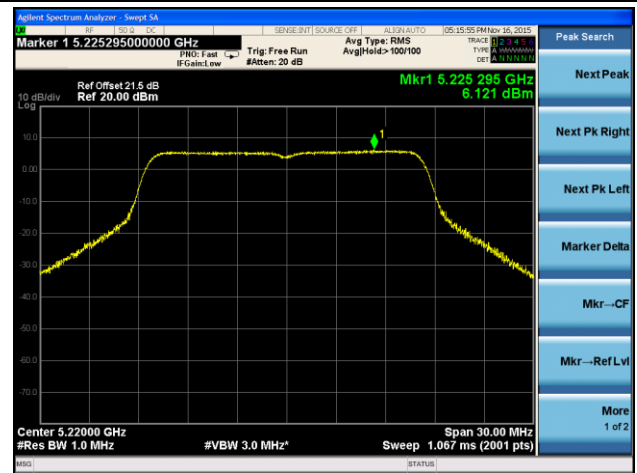


# 802.11a Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

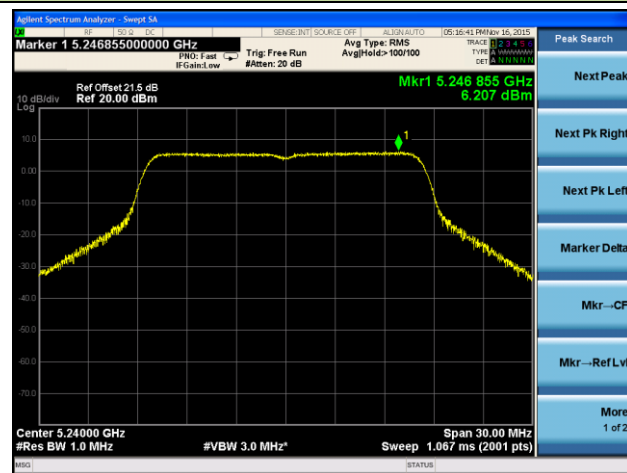
## Channel 36 (5180MHz)



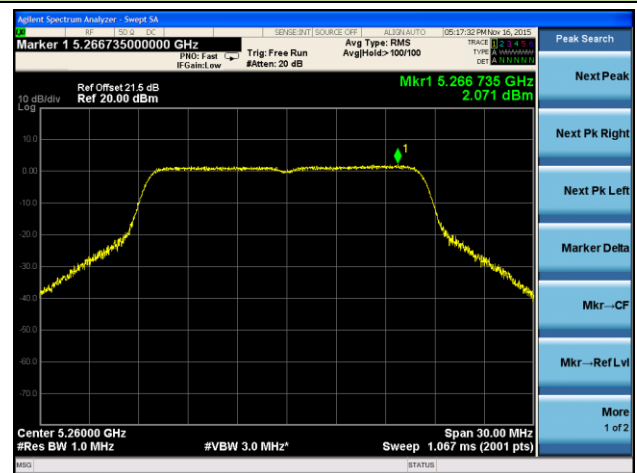
## Channel 44 (5220MHz)



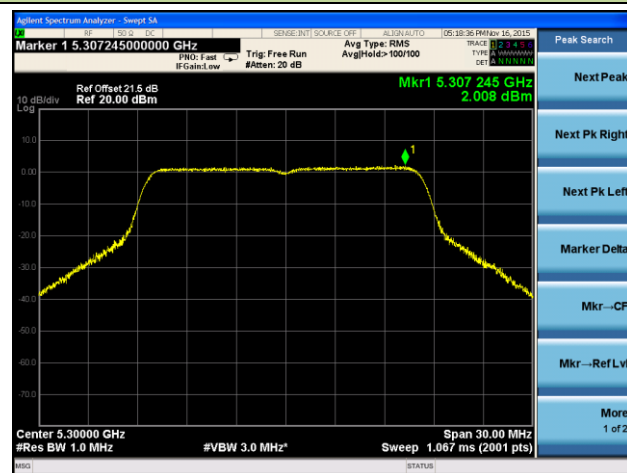
## Channel 48 (5240MHz)



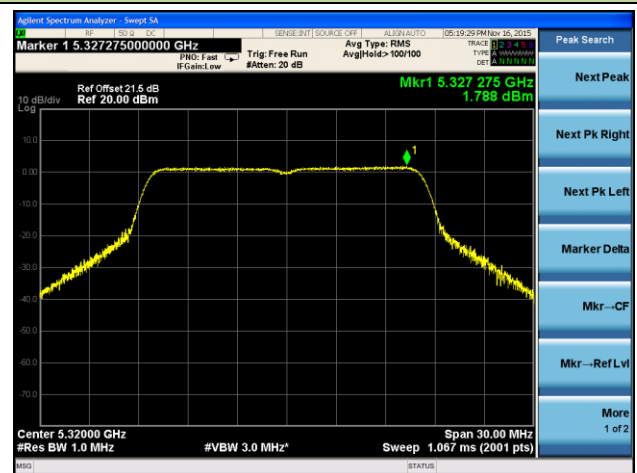
## Channel 52 (5260MHz)



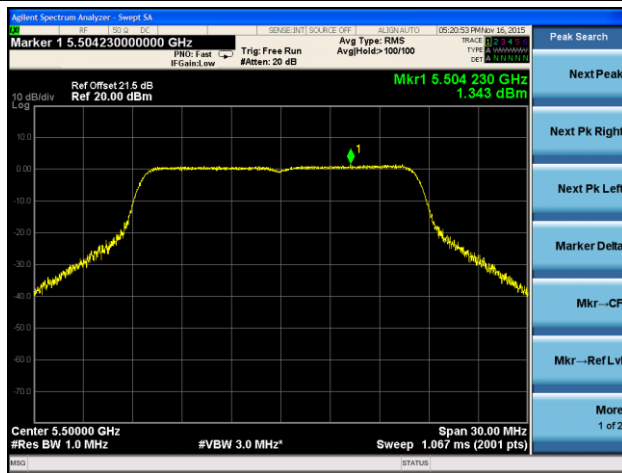
## Channel 60 (5300MHz)



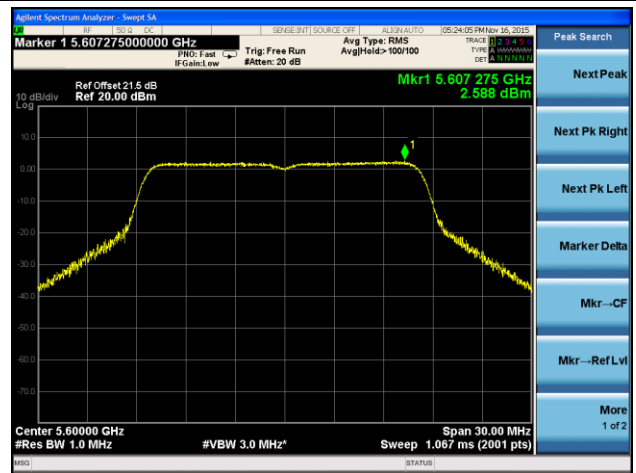
## Channel 64 (5320MHz)



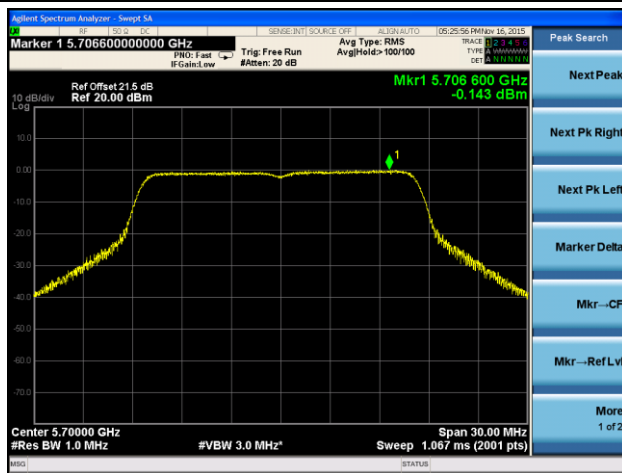
### Channel 100 (5500MHz)



### Channel 120 (5600MHz)

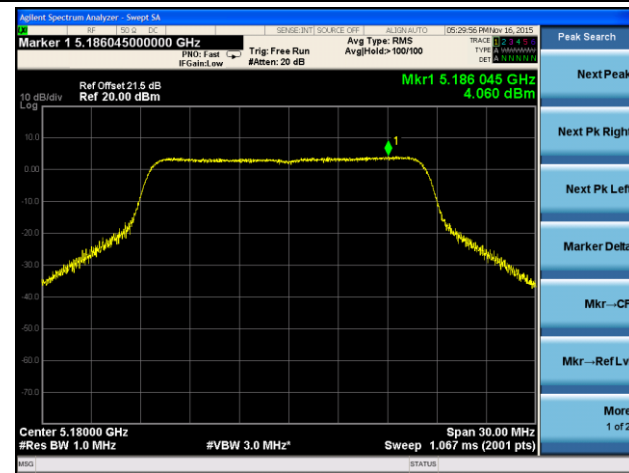


### Channel 140 (5700MHz)

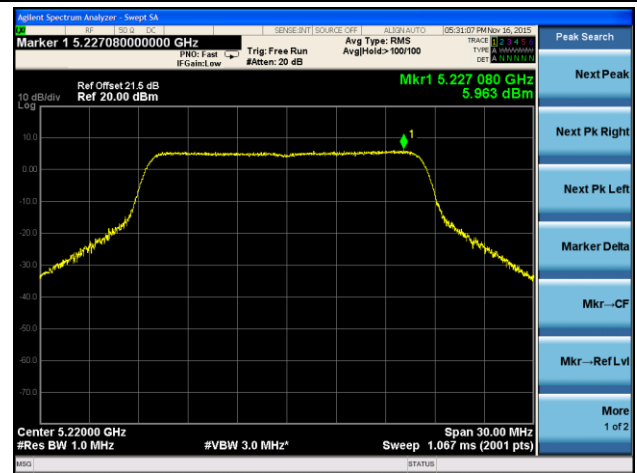


# 802.11a Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

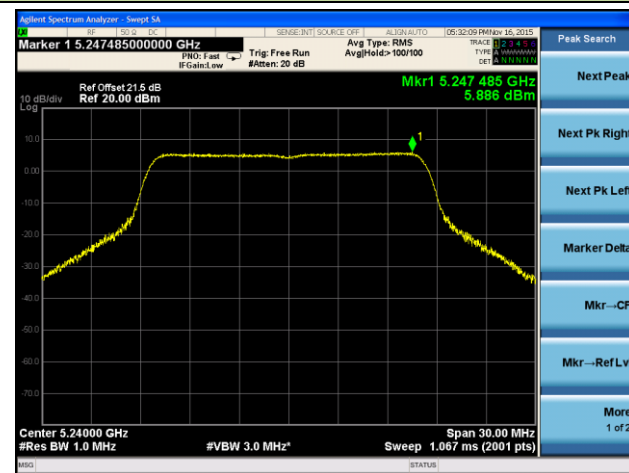
## Channel 36 (5180MHz)



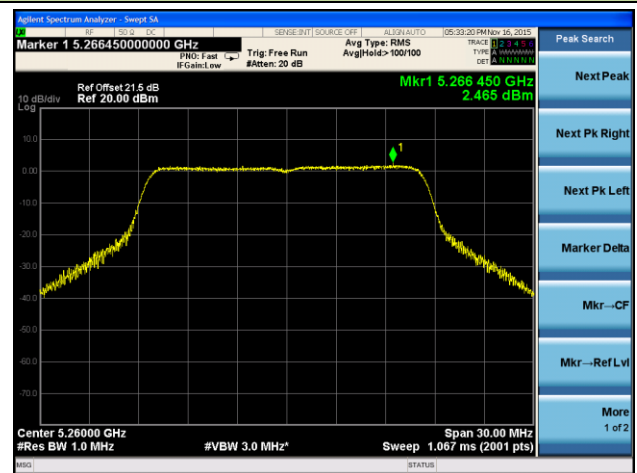
## Channel 44 (5220MHz)



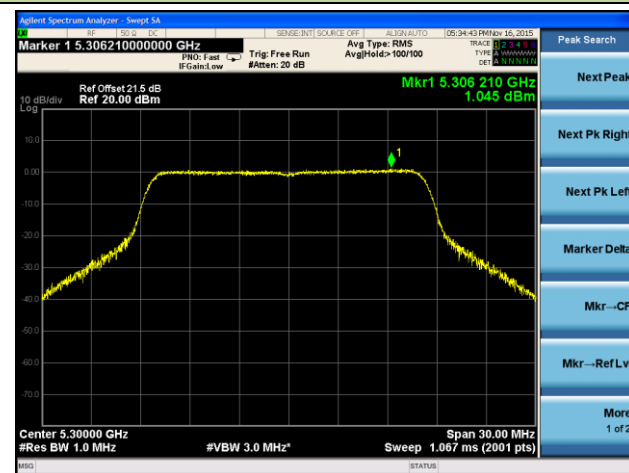
## Channel 48 (5240MHz)



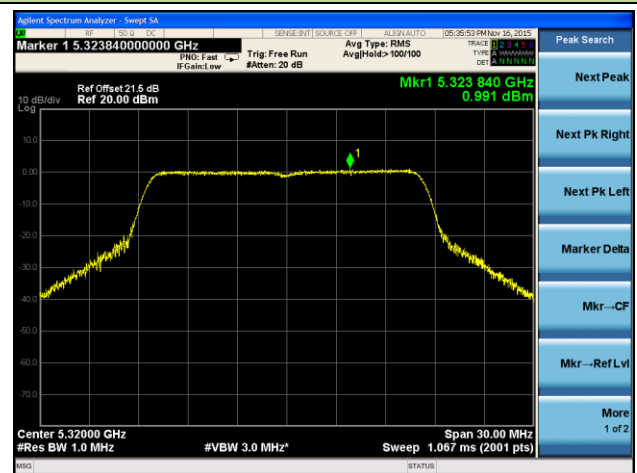
## Channel 52 (5260MHz)



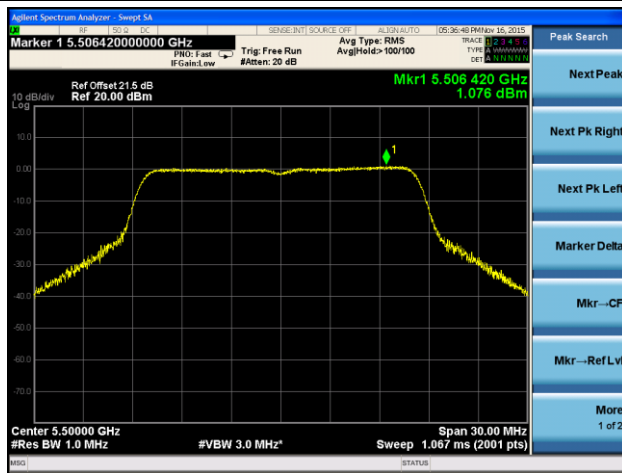
## Channel 60 (5300MHz)



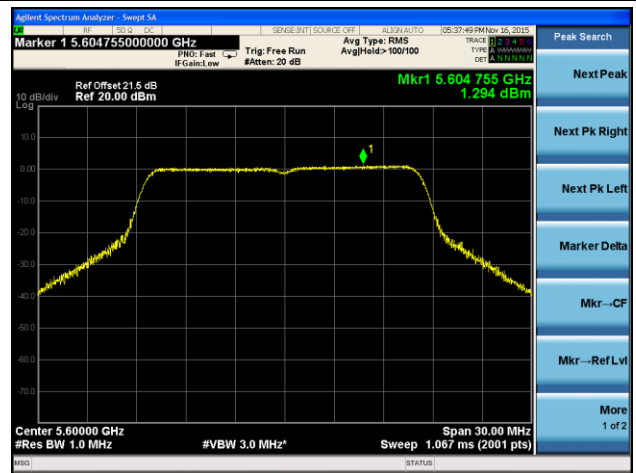
## Channel 64 (5320MHz)



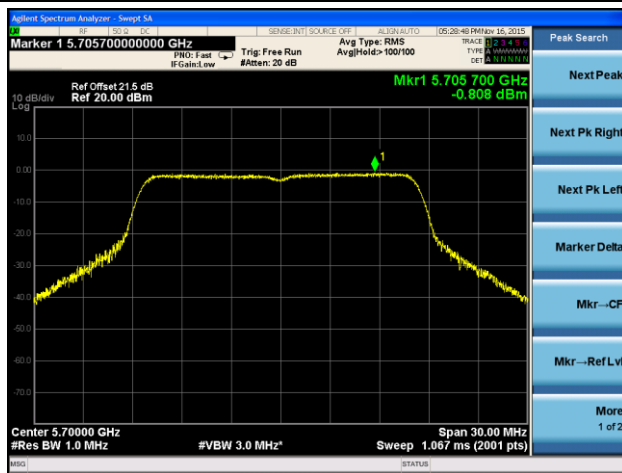
### Channel 100 (5500MHz)



### Channel 120 (5600MHz)



### Channel 140 (5700MHz)



## Radiated Spurious Emission Measurement

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 36                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7356.5          | 38.6                 | 8.0         | 46.6                   | 74.0           | -27.4       | Peak     | Horizontal   |
| *    | 10358.3         | 42.5                 | 12.2        | 54.7                   | 88.2           | -33.5       | Peak     | Horizontal   |
|      | 11526.4         | 38.1                 | 12.7        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 13426.4         | 37.9                 | 13.6        | 51.5                   | 88.2           | -36.7       | Peak     | Horizontal   |
|      | 8143.4          | 38.9                 | 8.5         | 47.4                   | 74.0           | -26.6       | Peak     | Vertical     |
| *    | 10358.2         | 47.0                 | 12.2        | 59.2                   | 88.2           | -29.0       | Peak     | Vertical     |
|      | 11523.4         | 38.4                 | 12.7        | 51.1                   | 74.0           | -22.9       | Peak     | Vertical     |
| *    | 12742.5         | 37.8                 | 11.7        | 49.5                   | 88.2           | -38.7       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 44                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7625.4          | 38.3                 | 8.0         | 46.3                   | 74.0           | -27.7       | Peak     | Horizontal   |
| *    | 10434.7         | 45.7                 | 12.0        | 57.7                   | 88.2           | -30.5       | Peak     | Horizontal   |
|      | 15657.3         | 32.4                 | 12.0        | 44.4                   | 54.0           | -9.6        | Average  | Horizontal   |
|      | 15662.2         | 47.2                 | 12.0        | 59.2                   | 74.0           | -14.8       | Peak     | Horizontal   |
| *    | 16253.5         | 39.6                 | 12.7        | 52.3                   | 88.2           | -35.9       | Peak     | Horizontal   |
|      | 7653.2          | 39.5                 | 8.0         | 47.5                   | 74.0           | -26.5       | Peak     | Vertical     |
| *    | 10443.2         | 48.6                 | 12.0        | 60.6                   | 88.2           | -27.6       | Peak     | Vertical     |
|      | 15653.6         | 41.6                 | 12.0        | 53.6                   | 74.0           | -20.4       | Peak     | Vertical     |
| *    | 16253.2         | 40.0                 | 12.7        | 52.7                   | 88.2           | -35.5       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 48                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 9155.3          | 36.8                 | 9.8         | 46.6                   | 74.0           | -27.4       | Peak     | Horizontal   |
| *    | 10477.2         | 45.1                 | 12.2        | 57.3                   | 88.2           | -30.9       | Peak     | Horizontal   |
|      | 15719.4         | 31.7                 | 11.8        | 43.5                   | 54.0           | -10.5       | Average  | Horizontal   |
|      | 15721.8         | 47.0                 | 11.8        | 58.8                   | 74.0           | -15.2       | Peak     | Horizontal   |
| *    | 16253.2         | 40.6                 | 12.7        | 53.3                   | 88.2           | -34.9       | Peak     | Horizontal   |
|      | 7324.7          | 37.7                 | 8.0         | 45.7                   | 74.0           | -28.3       | Peak     | Vertical     |
| *    | 10477.3         | 49.8                 | 12.2        | 62.0                   | 88.2           | -26.2       | Peak     | Vertical     |
|      | 11425.7         | 35.7                 | 12.7        | 48.4                   | 74.0           | -25.6       | Peak     | Vertical     |
| *    | 12756.7         | 36.6                 | 11.7        | 48.3                   | 88.2           | -39.9       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 52                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7046.2          | 43.7                 | 7.1         | 50.8                   | 88.2           | -37.4       | Peak     | Horizontal   |
| *    | 7832.3          | 45.5                 | 8.4         | 53.9                   | 88.2           | -34.3       | Peak     | Horizontal   |
|      | 9066.1          | 41.6                 | 9.1         | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
|      | 10808.6         | 40.5                 | 12.7        | 53.2                   | 74.0           | -20.8       | Peak     | Horizontal   |
| *    | 7016.3          | 45.1                 | 6.9         | 52.0                   | 88.2           | -36.2       | Peak     | Vertical     |
| *    | 7963.2          | 45.0                 | 8.6         | 53.6                   | 88.2           | -34.6       | Peak     | Vertical     |
|      | 9167.3          | 41.4                 | 9.9         | 51.3                   | 74.0           | -22.7       | Peak     | Vertical     |
|      | 10698.2         | 39.6                 | 12.4        | 52.0                   | 74.0           | -22.0       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 60                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7113.1          | 44.5                 | 7.6         | 52.1                   | 88.2           | -36.1       | Peak     | Horizontal   |
| *    | 7864.3          | 44.4                 | 8.4         | 52.8                   | 88.2           | -35.4       | Peak     | Horizontal   |
|      | 9167.1          | 42.3                 | 9.9         | 52.2                   | 74.0           | -21.8       | Peak     | Horizontal   |
|      | 10613.3         | 40.8                 | 12.4        | 53.2                   | 74.0           | -20.8       | Peak     | Horizontal   |
| *    | 7110.1          | 44.8                 | 7.5         | 52.3                   | 88.2           | -35.9       | Peak     | Vertical     |
| *    | 7813.3          | 43.7                 | 8.4         | 52.1                   | 88.2           | -36.1       | Peak     | Vertical     |
|      | 9168.2          | 41.6                 | 9.9         | 51.5                   | 74.0           | -22.5       | Peak     | Vertical     |
|      | 10621.8         | 40.3                 | 12.4        | 52.7                   | 74.0           | -21.3       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 64                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7211.2          | 43.9                 | 7.8         | 51.7                   | 88.2           | -36.5       | Peak     | Horizontal   |
| *    | 7813.2          | 43.1                 | 8.4         | 51.5                   | 88.2           | -36.7       | Peak     | Horizontal   |
|      | 9113.1          | 41.9                 | 9.5         | 51.4                   | 74.0           | -22.6       | Peak     | Horizontal   |
|      | 10655.8         | 40.2                 | 12.3        | 52.5                   | 74.0           | -21.5       | Peak     | Horizontal   |
| *    | 7203.3          | 43.9                 | 7.8         | 51.7                   | 88.2           | -36.5       | Peak     | Vertical     |
| *    | 7901.1          | 43.0                 | 8.3         | 51.3                   | 88.2           | -36.9       | Peak     | Vertical     |
|      | 9364.2          | 42.7                 | 10.5        | 53.2                   | 74.0           | -20.8       | Peak     | Vertical     |
|      | 10689.8         | 39.4                 | 12.4        | 51.8                   | 74.0           | -22.2       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 100                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7204.2          | 43.7                 | 7.8         | 51.5                   | 88.2           | -36.7       | Peak     | Horizontal   |
| *    | 7806.1          | 42.8                 | 8.4         | 51.2                   | 88.2           | -37.0       | Peak     | Horizontal   |
|      | 9106.3          | 41.2                 | 9.4         | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
|      | 10621.7         | 41.4                 | 12.4        | 53.8                   | 74.0           | -20.2       | Peak     | Horizontal   |
| *    | 7211.3          | 44.0                 | 7.8         | 51.8                   | 88.2           | -36.4       | Peak     | Vertical     |
| *    | 7861.3          | 43.9                 | 8.4         | 52.3                   | 88.2           | -35.9       | Peak     | Vertical     |
|      | 9168.3          | 42.4                 | 9.9         | 52.3                   | 74.0           | -21.7       | Peak     | Vertical     |
|      | 10706.7         | 40.8                 | 12.4        | 53.2                   | 74.0           | -20.8       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 120                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7022.2          | 43.4                 | 6.9         | 50.3                   | 88.2           | -37.9       | Peak     | Horizontal   |
| *    | 7753.4          | 43.0                 | 8.1         | 51.1                   | 88.2           | -37.1       | Peak     | Horizontal   |
|      | 9153.4          | 41.4                 | 9.8         | 51.2                   | 74.0           | -22.8       | Peak     | Horizontal   |
|      | 10625.3         | 39.9                 | 12.4        | 52.3                   | 74.0           | -21.7       | Peak     | Horizontal   |
| *    | 7026.4          | 42.2                 | 6.9         | 49.1                   | 88.2           | -39.1       | Peak     | Vertical     |
| *    | 7759.4          | 42.3                 | 8.1         | 50.4                   | 88.2           | -37.8       | Peak     | Vertical     |
|      | 9173.2          | 42.3                 | 9.9         | 52.2                   | 74.0           | -21.8       | Peak     | Vertical     |
|      | 12503.3         | 39.8                 | 11.4        | 51.2                   | 74.0           | -22.8       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 140                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7149.4          | 41.7                 | 7.7         | 49.4                   | 88.2           | -38.8       | Peak     | Horizontal   |
| *    | 7762.2          | 40.9                 | 8.2         | 49.1                   | 88.2           | -39.1       | Peak     | Horizontal   |
|      | 9153.3          | 41.7                 | 9.8         | 51.5                   | 74.0           | -22.5       | Peak     | Horizontal   |
|      | 11811.8         | 40.3                 | 11.9        | 52.2                   | 74.0           | -21.8       | Peak     | Horizontal   |
| *    | 7149.6          | 42.4                 | 7.7         | 50.1                   | 88.2           | -38.1       | Peak     | Vertical     |
| *    | 7754.6          | 42.3                 | 8.1         | 50.4                   | 88.2           | -37.8       | Peak     | Vertical     |
|      | 9173.4          | 42.1                 | 9.9         | 52.0                   | 74.0           | -22.0       | Peak     | Vertical     |
|      | 12430.3         | 40.0                 | 11.5        | 51.5                   | 74.0           | -22.5       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 149                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7326.0          | 38.2                 | 8.0         | 46.2                   | 74.0           | -27.8       | Peak     | Horizontal   |
| *    | 9245.7          | 37.3                 | 10.2        | 47.5                   | 88.2           | -40.7       | Peak     | Horizontal   |
|      | 11487.8         | 33.3                 | 12.8        | 46.1                   | 54.0           | -7.9        | Average  | Horizontal   |
|      | 11488.8         | 43.8                 | 12.8        | 56.6                   | 74.0           | -17.4       | Peak     | Horizontal   |
| *    | 17234.8         | 47.5                 | 15.9        | 63.4                   | 88.2           | -24.8       | Peak     | Horizontal   |
|      | 7323.9          | 37.8                 | 8.0         | 45.8                   | 74.0           | -28.2       | Peak     | Vertical     |
| *    | 9243.3          | 36.6                 | 10.2        | 46.8                   | 88.2           | -41.4       | Peak     | Vertical     |
|      | 11488.7         | 40.9                 | 12.8        | 53.7                   | 74.0           | -20.3       | Peak     | Vertical     |
| *    | 17234.7         | 42.8                 | 15.9        | 58.7                   | 88.2           | -29.5       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 157                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7325.0          | 37.1                 | 8.0         | 45.1                   | 74.0           | -28.9       | Peak     | Horizontal   |
| *    | 9253.2          | 37.9                 | 10.2        | 48.1                   | 88.2           | -40.1       | Peak     | Horizontal   |
|      | 11565.2         | 39.3                 | 12.7        | 52.0                   | 74.0           | -22.0       | Peak     | Horizontal   |
| *    | 17353.8         | 47.6                 | 16.9        | 64.5                   | 88.2           | -23.7       | Peak     | Horizontal   |
|      | 7314.0          | 37.9                 | 8.0         | 45.9                   | 74.0           | -28.1       | Peak     | Vertical     |
| *    | 9275.7          | 37.5                 | 10.3        | 47.8                   | 88.2           | -40.4       | Peak     | Vertical     |
|      | 11565.3         | 38.4                 | 12.7        | 51.1                   | 74.0           | -22.9       | Peak     | Vertical     |
| *    | 17345.3         | 42.3                 | 16.8        | 59.1                   | 88.2           | -29.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11a                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 165                                                                                                                                                                               | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7341.6          | 37.0                 | 8.0         | 45.0                   | 74.0           | -29.0       | Peak     | Horizontal   |
| *    | 9286.1          | 36.6                 | 10.3        | 46.9                   | 88.2           | -41.3       | Peak     | Horizontal   |
|      | 11650.3         | 40.2                 | 12.3        | 52.5                   | 74.0           | -21.5       | Peak     | Horizontal   |
| *    | 17472.8         | 46.3                 | 17.2        | 63.5                   | 88.2           | -24.7       | Peak     | Horizontal   |
|      | 7359.5          | 39.2                 | 8.0         | 47.2                   | 74.0           | -26.8       | Peak     | Vertical     |
| *    | 9247.7          | 37.2                 | 10.2        | 47.4                   | 88.2           | -40.8       | Peak     | Vertical     |
|      | 11650.0         | 32.5                 | 12.3        | 44.8                   | 54.0           | -9.2        | Average  | Vertical     |
|      | 11650.1         | 42.8                 | 12.3        | 55.1                   | 74.0           | -18.9       | Peak     | Vertical     |
| *    | 17472.7         | 42.6                 | 17.2        | 59.8                   | 88.2           | -28.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)