

Report on the RF Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1146
FCC ID: JOYEB1146

In accordance with FCC Part15 Subpart E

Prepared for: KYOCERA Corporation
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Document Number: JPD-TR-22193-0

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| Hiroaki Suzuki | Deputy Manager of RF Group | Approved Signatory | 2022.11.17 |

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EXECUTIVE SUMMARY – Result: Complied

A sample of this product was tested and the result above was confirmed in accordance with FCC Part15 Subpart E.



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1 Summary of Test

1.1 Modification history of the test report

| Document Number | Modification History | Issue Date |
|-----------------|----------------------|-------------------------|
| JPD-TR-22193-0 | First Issue | Refer to the cover page |

1.2 Standards

CFR47 FCC Part 15 Subpart E

1.3 Test methods

ANSI C63.10-2013

KDB662911 D01 Multiple Transmitter Output v02r01

KDB789033 D02 General U-NII Test Procedures New Rules v02r01

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

| Test item section | Test item | Condition | Result | Remark |
|-------------------------------|---|-----------|-------------------------|--------|
| 15.407(a) | 26dB Bandwidth | Conducted | Reporting Purposes only | - |
| 15.407(a) | Maximum Conducted Output Power | Conducted | PASS | - |
| 15.407(a) | Peak Power Spectral Density | Conducted | PASS | - |
| 15.407(b) 15.205 15.209 | Radiated emissions (Restricted Bands of Operation) | Radiated | PASS | - |
| 15.407(g) | Frequency Stability | Conducted | PASS | - |
| 15.207 | AC Power Line Conducted Emissions | Conducted | PASS | - |
| ANSI C63.10, Section 12.2 | Duty Cycle | Conducted | Reporting Purposes only | |

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

8-October-2022 - 9-November-2022

2 Equipment Under Test

All information in this chapter was provided by the applicant.

2.1 EUT information

| | |
|----------------------------|--|
| Applicant | KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314 |
| Equipment Under Test (EUT) | Mobile Phone |
| Model number | EB1146 |
| Serial number | 354663600011776, 354663600011206, 354663600011222 |
| Trade name | Kyocera |
| Number of sample(s) | 3 |
| EUT condition | Pre-Production |
| Power rating | Battery: DC 3.87 V |
| Size | (W) 69 mm × (D) 153 mm × (H) 8.9 mm |
| Environment | Indoor and Outdoor use |
| Terminal limitation | -20°C to 60°C |
| Hardware version | DMT |
| Software version | 0.110YO.9017.a |
| Firmware version | Not applicable |
| RF Specification | |
| Protocol | IEEE802.11a, IEEE802.11n (HT20), IEEE802.11n (HT40) IEEE802.11ac (VHT20), IEEE802.11ac (VHT40), IEEE802.11ac (VHT80) |
| Frequency range | IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 5180 MHz-5320 MHz, 5500 MHz-5720 MHz IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 5190 MHz-5310 MHz, 5510 MHz-5710 MHz IEEE802.11ac (VHT80): 5210 MHz, 5290 MHz, 5530 MHz, 5610 MHz, 5690MHz |
| Number of RF Channels | IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 20 Channels IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 10 Channels IEEE802.11ac (VHT80): 5 Channels |
| Modulation type | IEEE802.11a/n/ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |

| | |
|--------------------|---|
| Data rate | <p>IEEE802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</p> <p>IEEE802.11n (HT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps</p> <p>IEEE802.11n (HT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7, 96.1Mbps</p> <p>IEEE802.11ac (VHT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps</p> <p>IEEE802.11ac (VHT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.6, 96.1Mbps</p> <p>IEEE802.11n (HT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps</p> <p>IEEE802.11n (HT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps</p> <p>IEEE802.11ac (VHT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps</p> <p>IEEE802.11ac (VHT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps</p> <p>IEEE802.11ac (VHT80 LGI): 29.5, 58.5, 87.8, 117, 175.5, 234, 263.3, 292.5, 351, 390Mbps</p> <p>IEEE802.11ac (VHT80 SGI): 32.5, 65, 97.5, 130, 195, 260, 292.5, 325, 390, 433.3Mbps</p> |
| Channel separation | <p>IEEE802.11a/n(HT20) / IEEE802.11ac (VHT20): 20 MHz</p> <p>IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 40 MHz</p> <p>IEEE802.11ac (VHT80): 80 MHz</p> |
| Conducted power | <p>15.588 mW (IEEE802.11a)</p> <p>13.957 mW (IEEE802.11n: HT20)</p> <p>16.188 mW (IEEE802.11n: HT40)</p> <p>15.321 mW (IEEE802.11ac: VHT80)</p> |
| Antenna type | Internal antenna |
| Antenna gain | <p>5.15-5.35 GHz band: 1.1 dBi</p> <p>5.47-5.725 GHz band: 0.6 dBi</p> |

2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

| Modification State | Description of Modification | Modification fitted by | Date of Modification |
|---|------------------------------|------------------------|----------------------|
| Model: EB1146, Serial Number: 354663600011776, 354663600011206, 354663600011222 | | | |
| 0 | As supplied by the applicant | Not Applicable | Not Applicable |

2.3 Variation of family model(s)

2.3.1 List of family model(s)

Not applicable

2.3.2 Reason for selection of EUT

Not applicable

2.4 Operating channels and frequencies

[IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20)]

| Channel | Frequency [MHz] |
|---------|-----------------|
| 36 | 5180 |
| 40 | 5200 |
| 44 | 5220 |
| 48 | 5240 |
| 52 | 5260 |
| 56 | 5280 |
| 60 | 5300 |
| 64 | 5320 |
| 100 | 5500 |
| 104 | 5520 |
| 108 | 5540 |
| 112 | 5560 |
| 116 | 5580 |
| 120 | 5600 |
| 124 | 5620 |
| 128 | 5640 |
| 132 | 5660 |
| 136 | 5680 |
| 140 | 5700 |
| 144 | 5720 |

[IEEE802.11n (HT40) / IEEE802.11ac (VHT40)]

| Channel | Frequency [MHz] |
|---------|-----------------|
| 38 | 5190 |
| 46 | 5230 |
| 54 | 5270 |
| 62 | 5310 |
| 102 | 5510 |
| 110 | 5550 |
| 118 | 5590 |
| 126 | 5630 |
| 134 | 5670 |
| 142 | 5710 |

[IEEE802.11ac (VHT80)]

| Channel | Frequency [MHz] |
|---------|-----------------|
| 42 | 5210 |
| 58 | 5290 |
| 106 | 5530 |
| 122 | 5610 |
| 138 | 5690 |

2.5 Description of test mode

The EUT had been tested under operating condition.
There are three channels have been tested as following:

| Band | IEEE802.11a/n (HT20) IEEE802.11ac (VHT20) | | IEEE802.11n (HT40) IEEE802.11ac (VHT40) | | IEEE802.11ac (HT80) | |
|--------------|--|-----------------|--|-----------------|---------------------|-----------------|
| | Channel | Frequency [MHz] | Channel | Frequency [MHz] | Channel | Frequency [MHz] |
| 5.2 GHz Band | 36 | 5180 | 38 | 5190 | 42 | 5210 |
| | 40 | 5200 | - | - | - | - |
| | 48 | 5240 | 46 | 5230 | - | - |
| 5.3 GHz Band | 52 | 5260 | 54 | 5270 | 58 | 5290 |
| | 56 | 5280 | - | - | - | - |
| | 64 | 5320 | 62 | 5310 | - | - |
| 5.6 GHz Band | 100 | 5500 | 102 | 5510 | 106 | 5530 |
| | 116 | 5580 | 110 | 5550 | 122 | 5610 |
| | 140 | 5700 | 134 | 5670 | 138 | 5690 |
| | 144 | 5720 | 142 | 5710 | - | - |

The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

| Band | Modulation Type | Data Rate |
|--------------|----------------------------|-----------------|
| 5.2 GHz Band | IEEE802.11a: OFDM | 6Mbps |
| | IEEE802.11n (HT20): OFDM | MCS0 (6.5Mbps) |
| | IEEE802.11n (HT40): OFDM | MCS0 (13.5Mbps) |
| | IEEE802.11ac (VHT80): OFDM | MCS0 (29.5Mbps) |
| 5.3 GHz Band | IEEE802.11a: OFDM | 6Mbps |
| | IEEE802.11n (HT20): OFDM | MCS0 (6.5Mbps) |
| | IEEE802.11n (HT40): OFDM | MCS0 (13.5Mbps) |
| | IEEE802.11ac (VHT80): OFDM | MCS0 (29.5Mbps) |
| 5.6 GHz Band | IEEE802.11a: OFDM | 6Mbps |
| | IEEE802.11n (HT20): OFDM | MCS0 (6.5Mbps) |
| | IEEE802.11n (HT40): OFDM | MCS0 (13.5Mbps) |
| | IEEE802.11ac (VHT80): OFDM | MCS0 (29.5Mbps) |

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.

The worst emission was found in Z-axis and the worst case recorded.

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.



Japan

2.6 Operating flow

- Tx mode

- i) Test program setup to the Software
- ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band
- iii) Start test mode

- Rx mode

- i) Test program setup to the Software
- ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band
- iii) Start test mode

3 Configuration of Equipment

Numbers assigned to equipment on the diagram in “3.3 System configuration” correspond to the lists in “3.1 Equipment used” and “3.2 Cable(s) used”.

This test configuration is based on the manufacture’s instruction.

Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

3.1 Equipment used

| No. | Equipment | Company | Model No. | Serial No. | FCC ID / DoC | Comment |
|-----|--------------|---------|-----------|---|--------------|---------|
| 1 | Mobile Phone | KYOCERA | EB1146 | 354663600011776, 354663600011206, 354663600011222 | JOYEB1146 | EUT |
| 2 | AC Adapter | KDDI | 0602PQA | N/A | N/A | * |

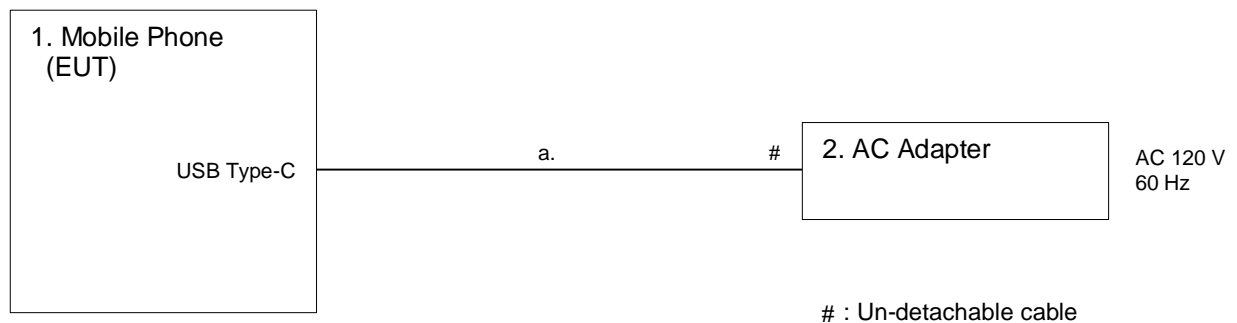
*: AC power line Conducted Emission Test.

3.2 Cable(s) used

| No. | Cable | Length[m] | Shield | Connector | Comment |
|-----|----------------------------|-----------|--------|-----------|---------|
| a | USB cable (for AC Adapter) | 1.5 | No | Plastic | * |

*: AC power line Conducted Emission Test.

3.3 System configuration



4 Test Result

4.1 26dB Bandwidth and 99% Occupied Bandwidth

4.1.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section C, D]

The 26dB bandwidth and 99% occupied bandwidth is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=200 kHz/430 kHz/820 kHz, VBW=620 kHz/1.3 MHz/2.4 MHz, Span=40 MHz/80 MHz/160 MHz
- Sweep=auto, Detector=Peak, Trace mode=Max hold

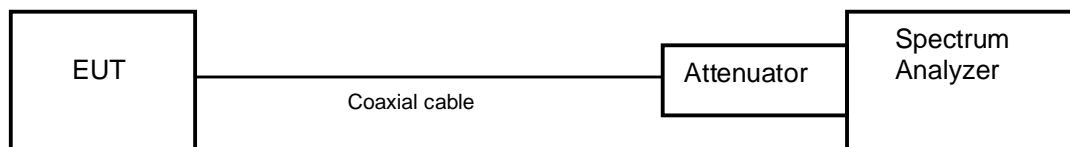
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.1.2 Limit

None

4.1.3 Measurement result

Date : 8-November-2022
 Temperature : 21.0 [°C]
 Humidity : 36.8 [%]
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

| Mode | Band | Channel | Frequency (MHz) | 26dB bandwidth (MHz) | 99% Occupied bandwidth (MHz) |
|---------|-------------|---------|-----------------|----------------------|------------------------------|
| 802.11a | 5.2GHz Band | 36 | 5180 | 20.024 | 16.4682 |
| | | 40 | 5200 | 19.887 | 16.4006 |
| | | 48 | 5240 | 19.879 | 16.4297 |
| | 5.3GHz Band | 52 | 5260 | 19.933 | 16.4008 |
| | | 56 | 5280 | 20.042 | 16.3834 |
| | | 64 | 5320 | 19.711 | 16.3881 |
| | 5.6GHz Band | 100 | 5500 | 19.681 | 16.4153 |
| | | 116 | 5580 | 19.870 | 16.4389 |
| | | 140 | 5700 | 19.656 | 16.4030 |
| | | 144 | 5720 | 19.741 | 16.4246 |

| Mode | Band | Channel | Frequency (MHz) | 26dB bandwidth (MHz) | 99% Occupied bandwidth (MHz) |
|-----------------|-------------|---------|-----------------|----------------------|------------------------------|
| 802.11n (20MHz) | 5.2GHz Band | 36 | 5180 | 20.196 | 17.5296 |
| | | 40 | 5200 | 20.276 | 17.5505 |
| | | 48 | 5240 | 20.127 | 17.5431 |
| | 5.3GHz Band | 52 | 5260 | 20.126 | 17.5332 |
| | | 56 | 5280 | 20.091 | 17.5647 |
| | | 64 | 5320 | 20.223 | 17.5389 |
| | 5.6GHz Band | 100 | 5500 | 20.009 | 17.5594 |
| | | 116 | 5580 | 20.169 | 17.5307 |
| | | 140 | 5700 | 20.204 | 17.5666 |
| | | 144 | 5720 | 20.018 | 17.5286 |



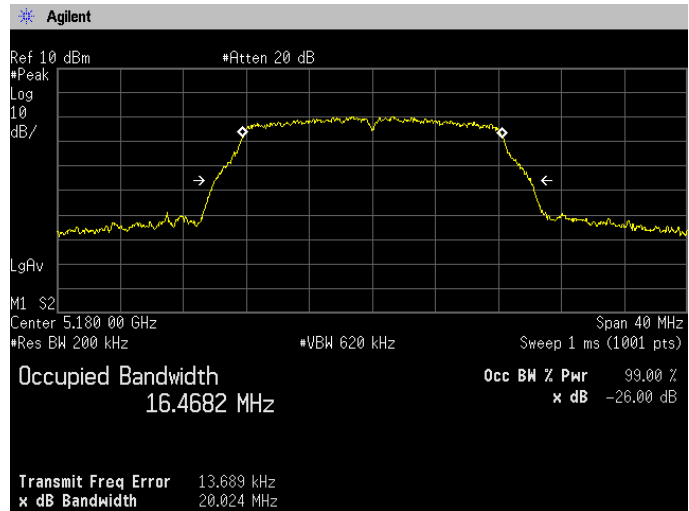
| Mode | Band | Channel | Frequency (MHz) | 26dB bandwidth (MHz) | 99% Occupied bandwidth (MHz) |
|--------------------|-------------|---------|-----------------|----------------------|------------------------------|
| 802.11n (40MHz) | 5.2GHz Band | 38 | 5190 | 40.544 | 35.9551 |
| | | 46 | 5230 | 40.643 | 35.9565 |
| | 5.3GHz Band | 54 | 5270 | 40.354 | 35.9849 |
| | | 62 | 5310 | 40.625 | 35.9612 |
| | 5.6GHz Band | 102 | 5510 | 40.529 | 35.9641 |
| | | 110 | 5550 | 40.393 | 35.9432 |
| | | 134 | 5670 | 40.545 | 36.0389 |
| | | 142 | 5710 | 40.413 | 36.0091 |

| Mode | Band | Channel | Frequency (MHz) | 26dB bandwidth (MHz) | 99% Occupied bandwidth (MHz) |
|---------------------|-------------|---------|-----------------|----------------------|------------------------------|
| 802.11ac (80MHz) | 5.2GHz Band | 42 | 5210 | 80.843 | 75.1469 |
| | 5.3GHz Band | 58 | 5290 | 80.796 | 75.1002 |
| | 5.6GHz Band | 106 | 5530 | 81.085 | 75.1313 |
| | | 122 | 5610 | 80.743 | 75.1194 |
| | | 138 | 5690 | 80.707 | 75.1625 |

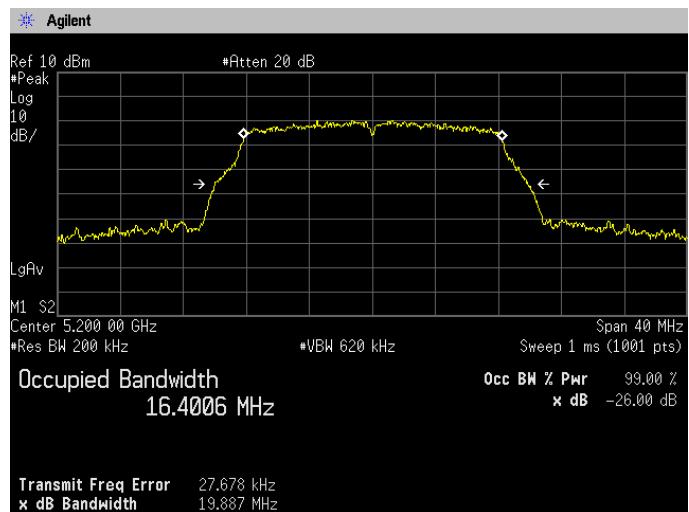


4.1.4 Trace data

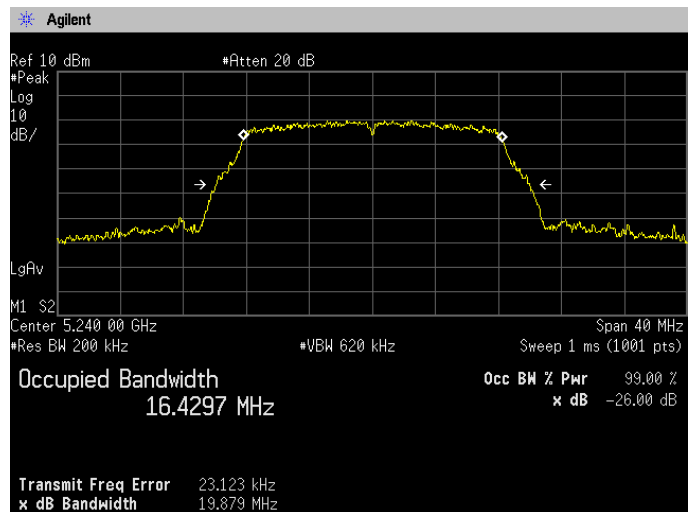
[IEEE802.11a]
 (5.2 GHz Band)
 Channel: 36



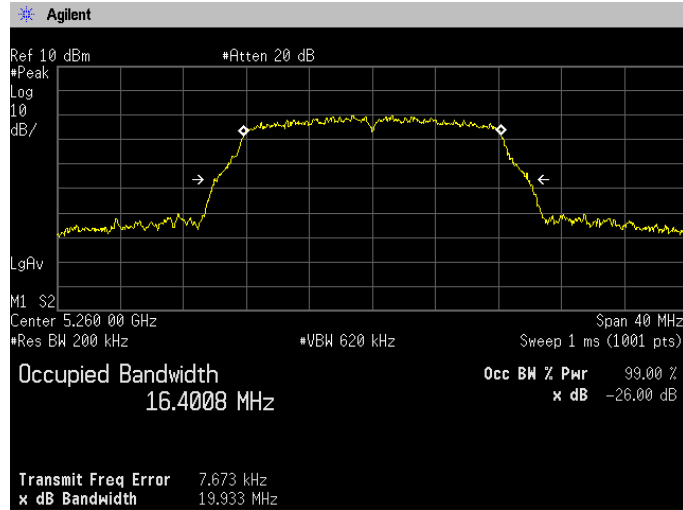
Channel: 40



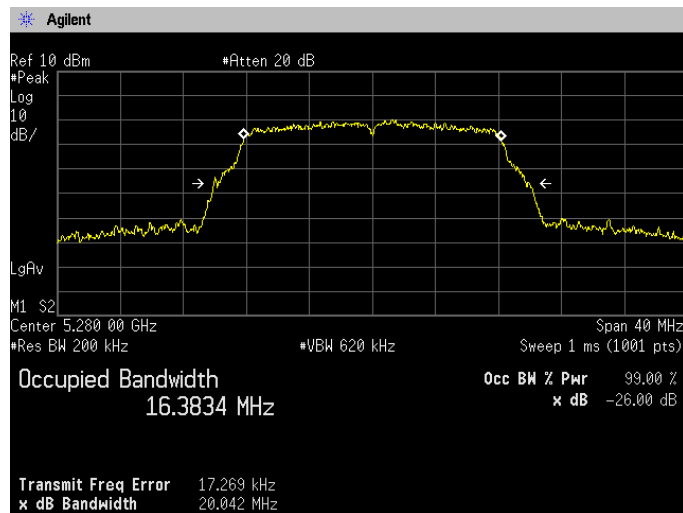
Channel: 48



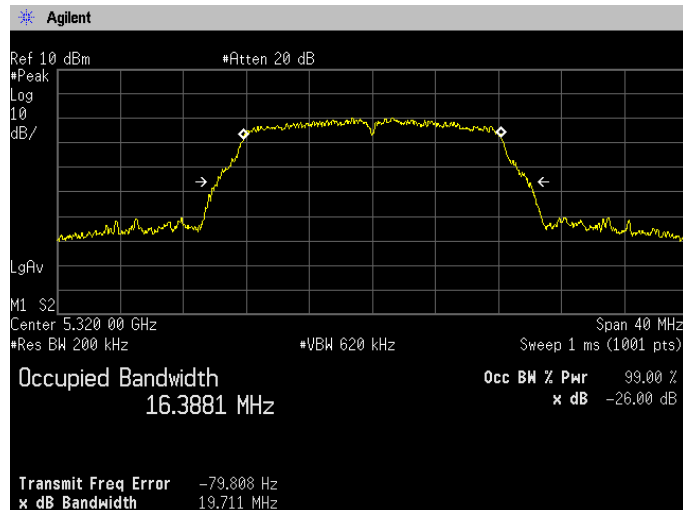
**(5.3 GHz Band)
Channel: 52**



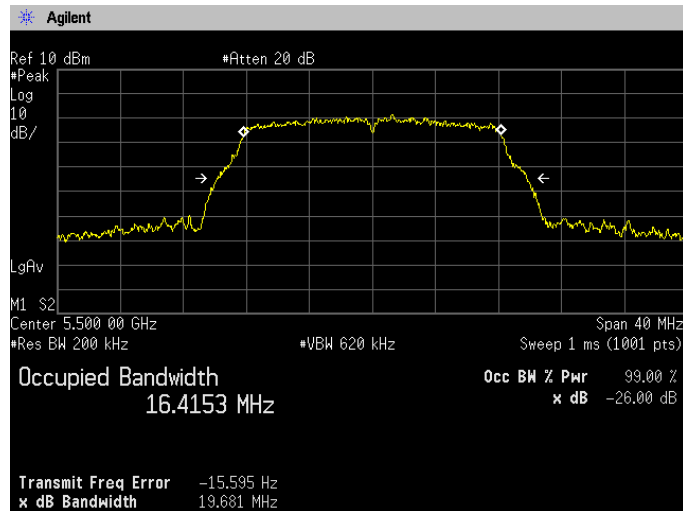
Channel: 56



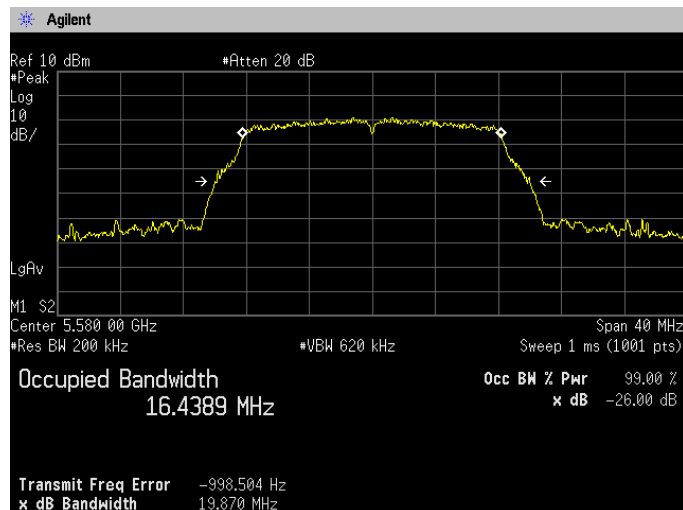
Channel: 64



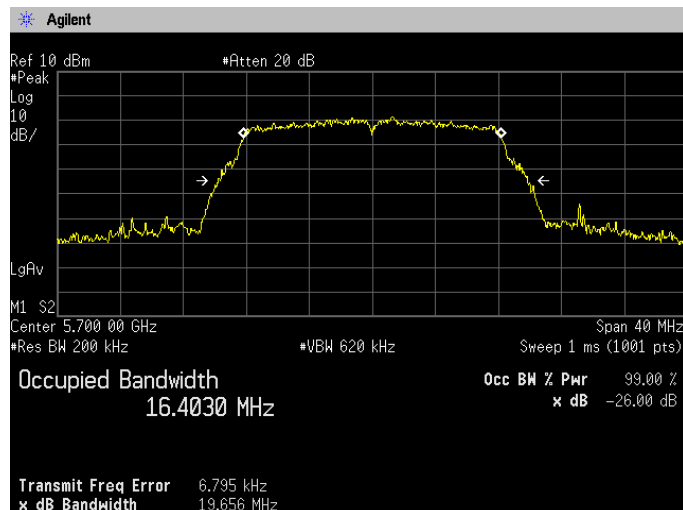
**(5.6 GHz Band)
Channel: 100**



Channel: 116

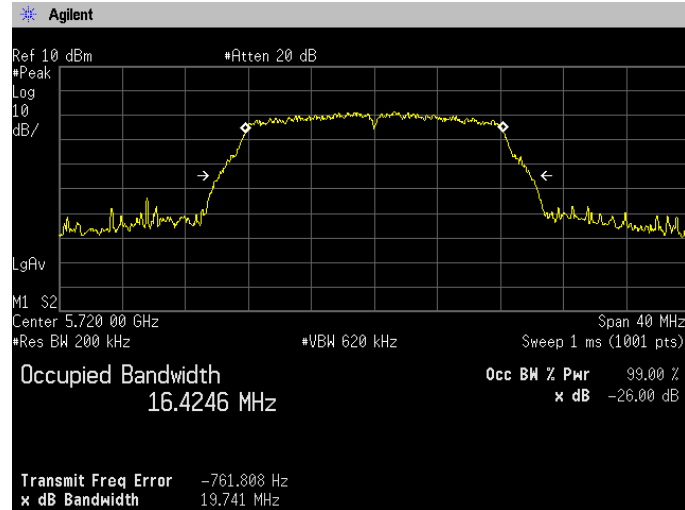


Channel: 140



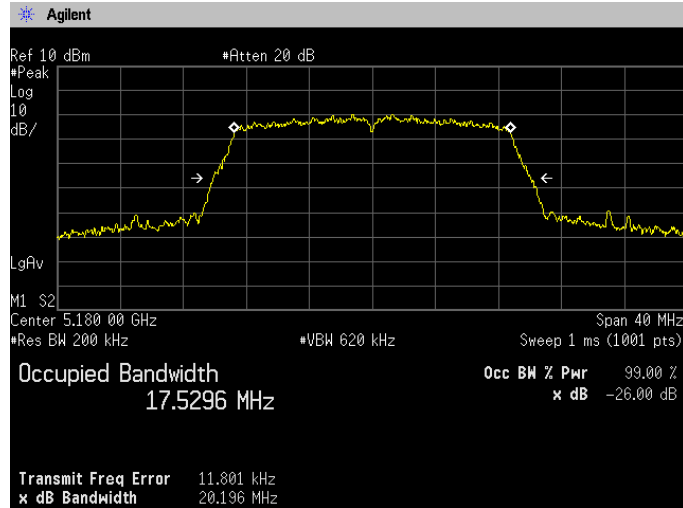


**(5.6 GHz Band)
Channel: 144**

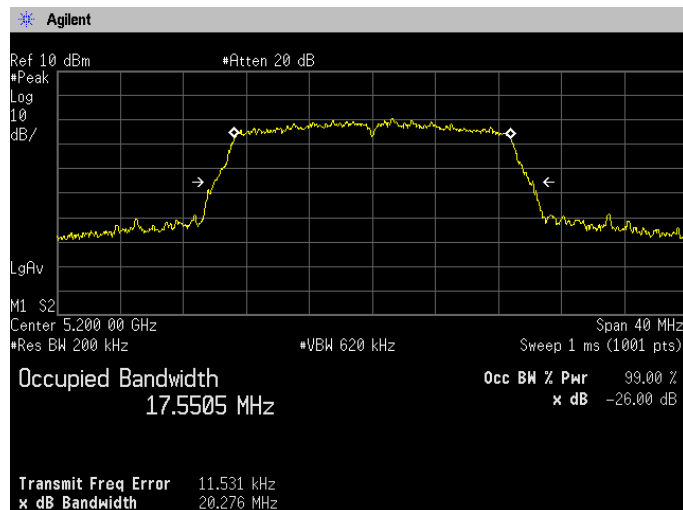




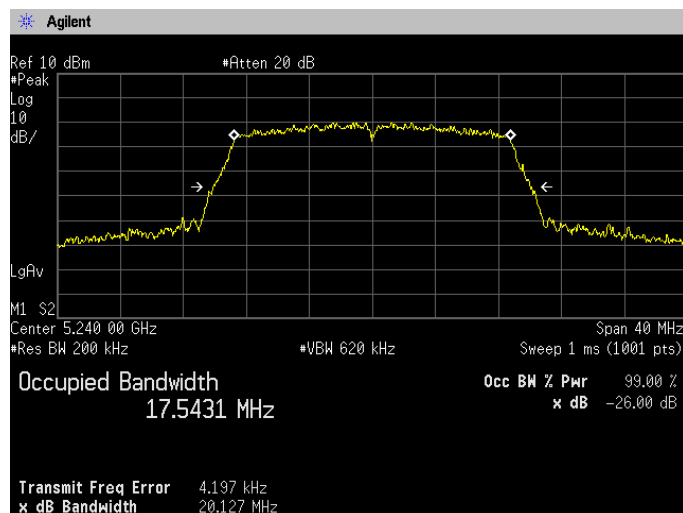
**[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 36**



Channel: 40

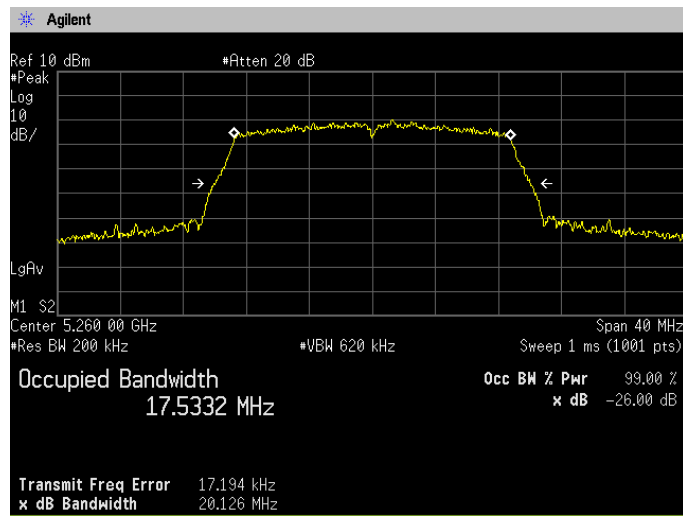


Channel: 48

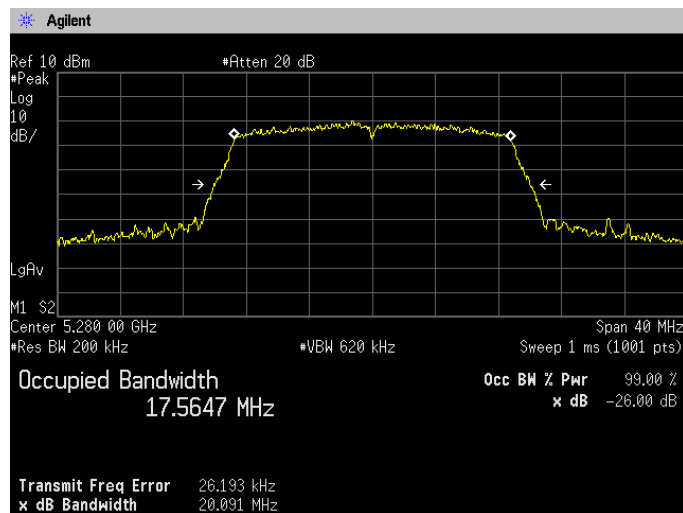




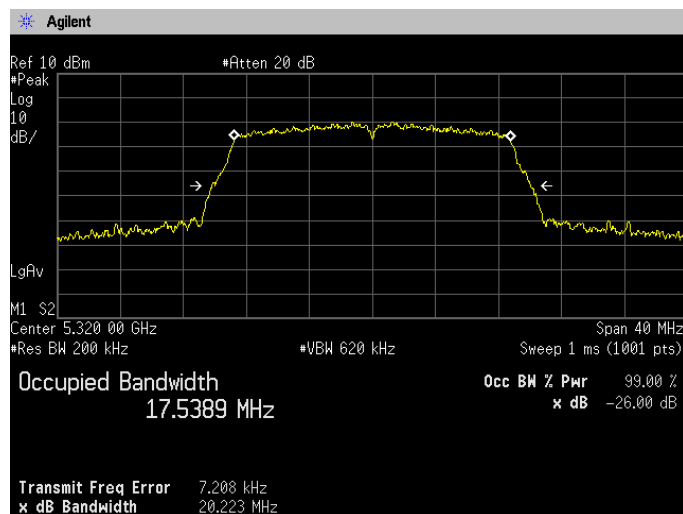
**(5.3 GHz Band)
Channel: 52**



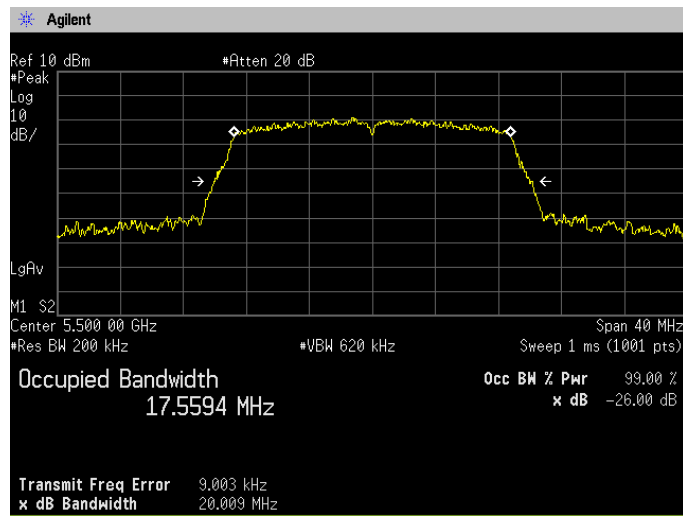
Channel: 56



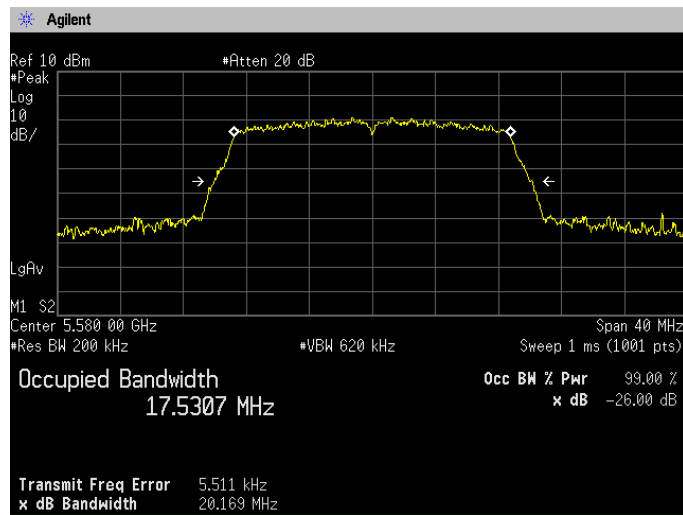
Channel: 64



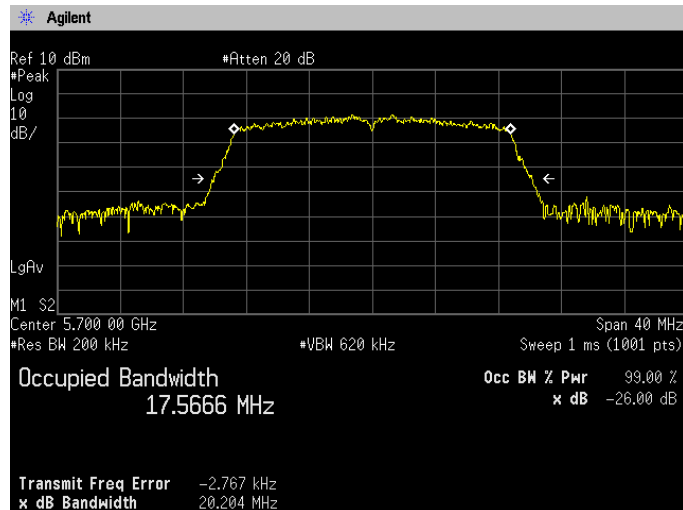
**(5.6 GHz Band)
Channel: 100**



Channel: 116

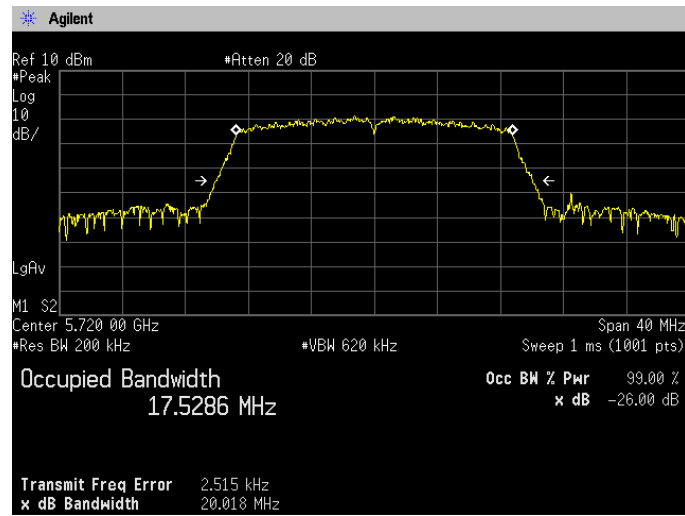


Channel: 140



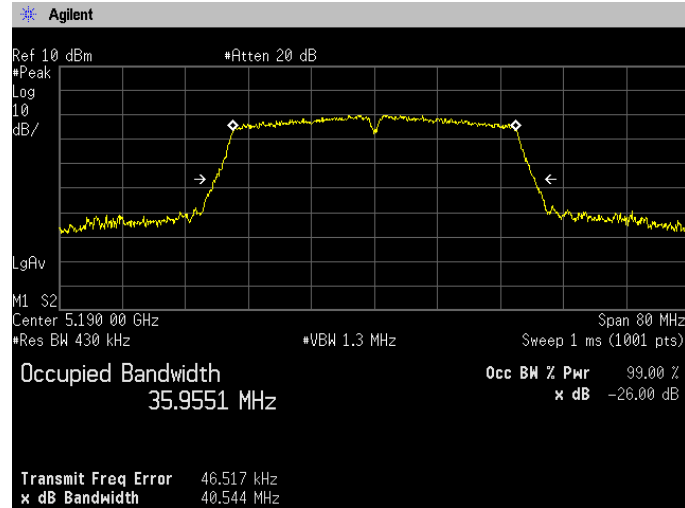
(5.6 GHz Band)

Channel: 144

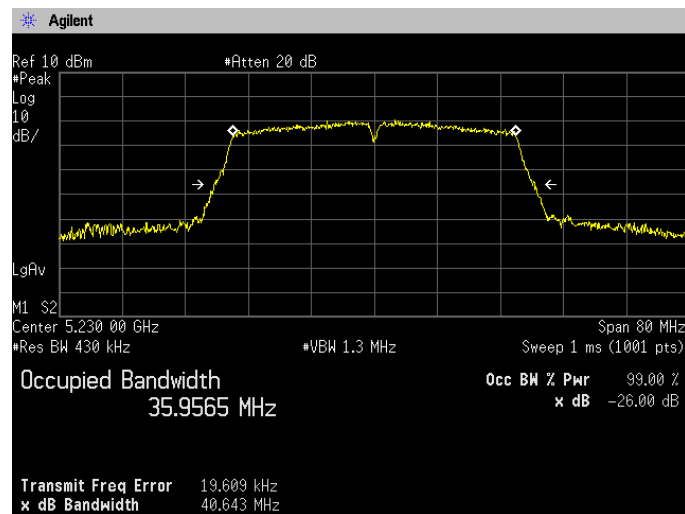




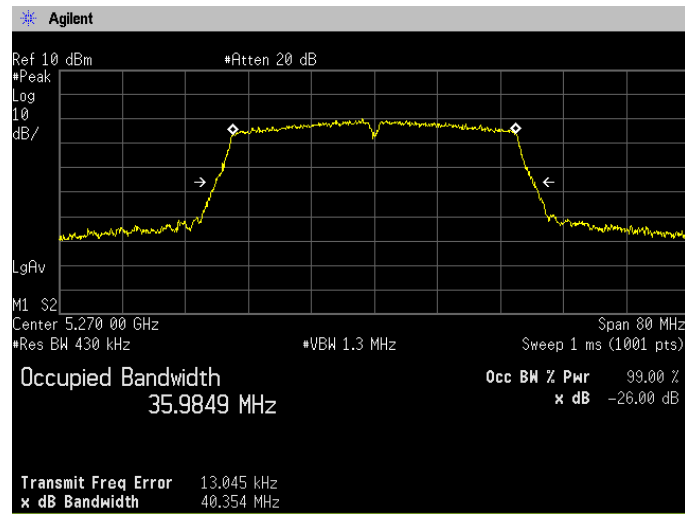
**[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38**



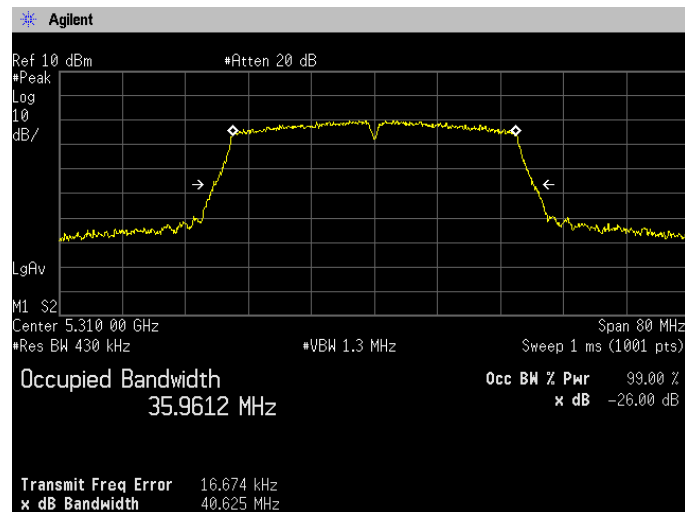
Channel: 46



**(5.3 GHz Band)
Channel: 54**

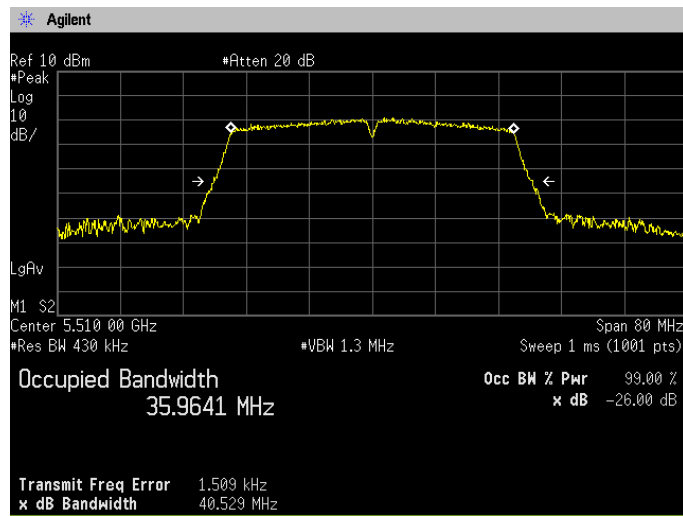


Channel: 62

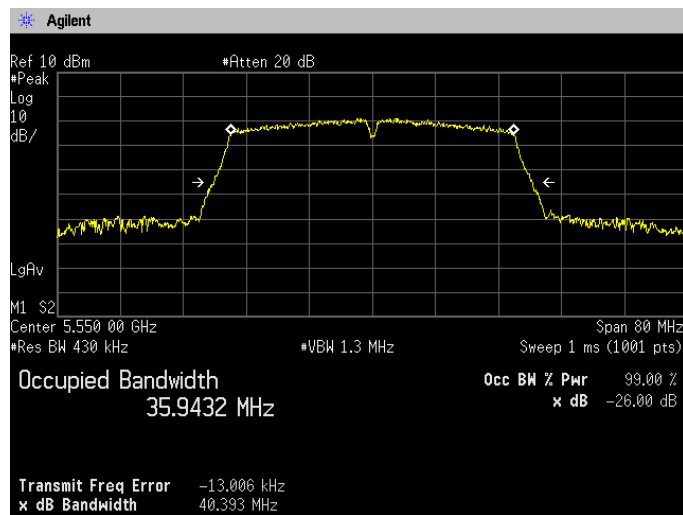




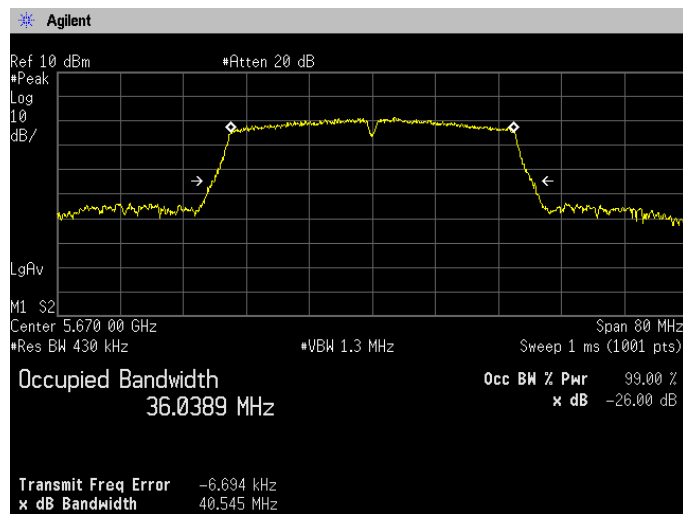
**(5.6 GHz Band)
Channel: 102**



Channel: 110



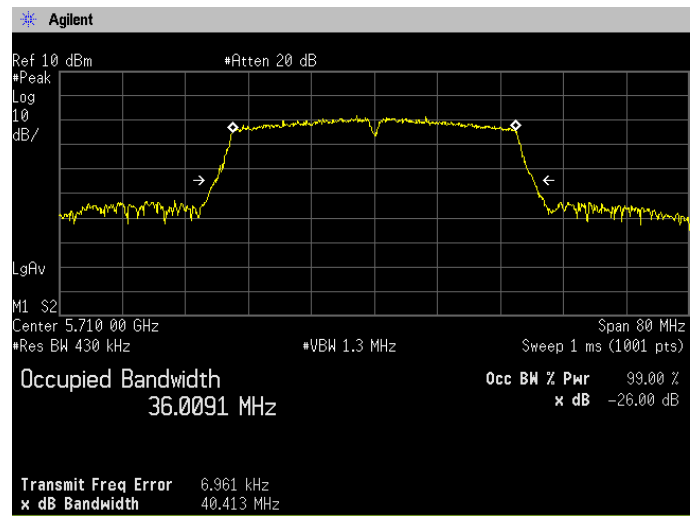
Channel: 134





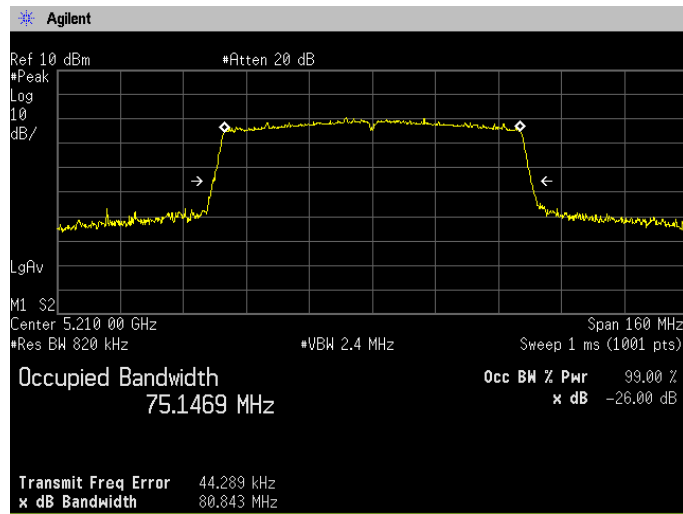
Japan

**(5.6 GHz Band)
Channel: 142**

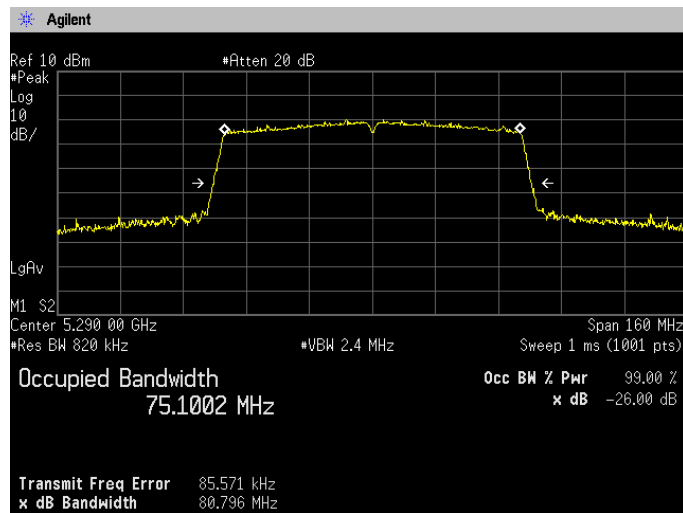




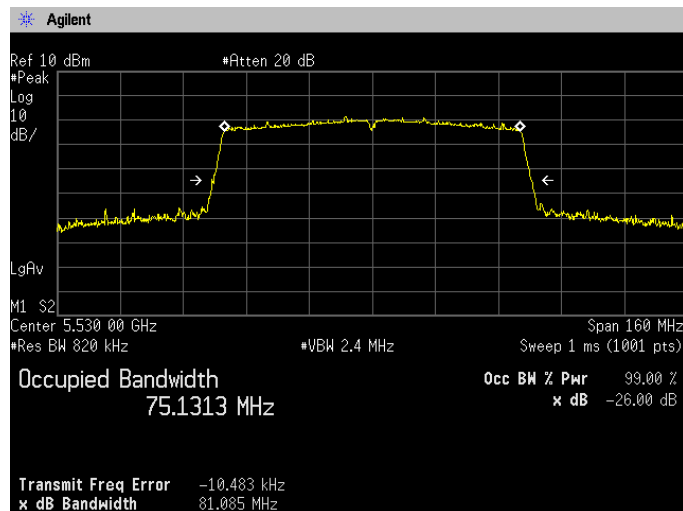
[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



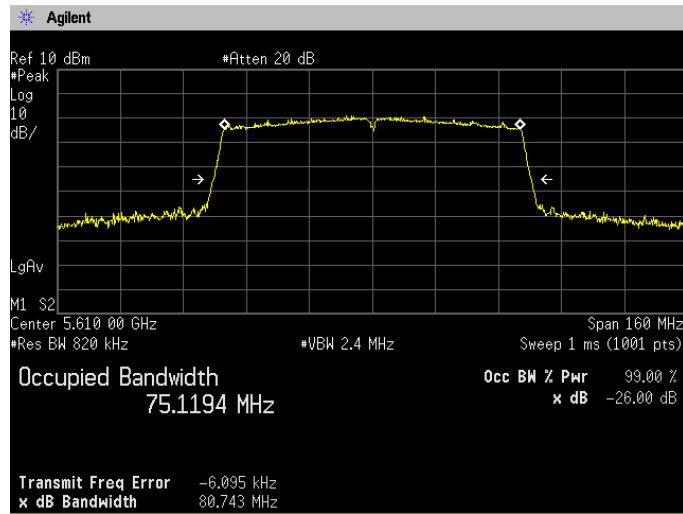
(5.3GHz Band)
Channel: 58



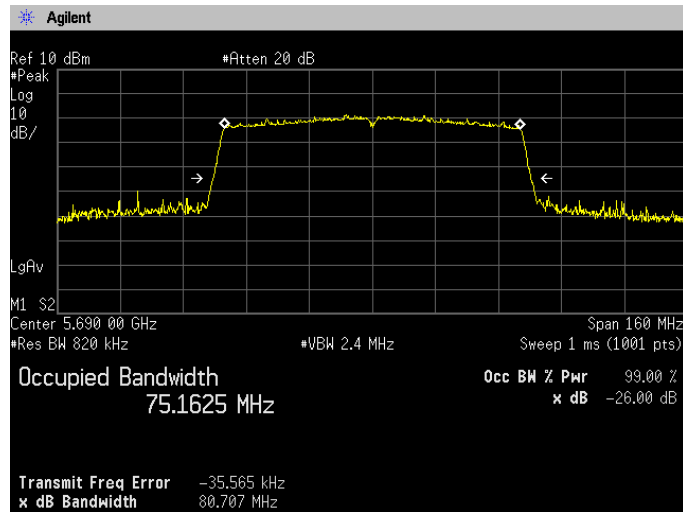
(5.6 GHz Band)
Channel: 106



**(5.6 GHz Band)
Channel: 122**



Channel: 138



4.2 Maximum Conducted Output Power

4.2.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section E.2.b) Method SA-1, d) Method SA-2]

The peak power is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

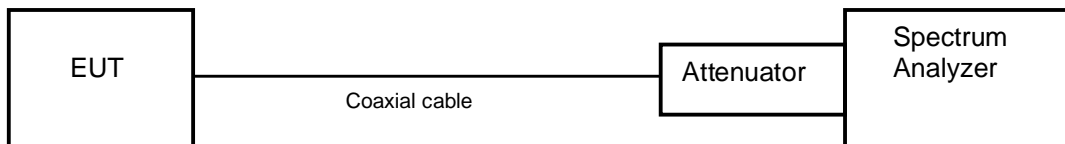
The spectrum analyzer is set to;

- RBW=1MHz, VBW=3MHz, Span=35MHz/70MHz/140MHz, Sweep=auto,
Detector=RMS, Trace mode=Averaging

The EUT was set to operate with following conditions.

- 5.2GHz Band, 5.3GHz Band, 5.6GHz Band
- The test mode of EUT is as follows.
- Tx mode

- Test configuration



4.2.2 Limit

- (1) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10\log B$, where B is the 26dB emission bandwidth in megahertz.
- (3) For the 5.725-5.85 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.



<Output Power Limit Calculation>

| Band | Mode | Power Limit (mW) | Calculated Limit (dBm) | Antenna Gain (dBi) | Determined Limit (dBm) |
|-------------|---------------|------------------|------------------------|--------------------|------------------------|
| 5.2GHz Band | 802.11a | 250 | 23.97 | 1.1 | 23.97 |
| | 802.11n HT20 | | | | |
| | 802.11n HT20 | | | | |
| | 802.11ac HT80 | | | | |

| Band | Mode | Power Limit (mW) | Calculated Limit (dBm) | Antenna Gain (dBi) | Determined Limit (dBm) |
|-------------|---------------|----------------------|------------------------|--------------------|------------------------|
| | | Least 26dBc BW (MHz) | | | |
| 5.3GHz Band | 802.11a | 250 | 23.97 | 1.1 | 23.97 |
| | | 21.893 | 24.40 | | |
| | 802.11n HT20 | 250 | 23.97 | | 23.97 |
| | | 22.004 | 24.43 | | |
| | 802.11n HT20 | 250 | 23.97 | | 23.97 |
| | | 40.741 | 27.10 | | |
| | 802.11ac HT80 | 250 | 23.97 | | 23.97 |
| | | 82.602 | 30.17 | | |

| Band | Mode | Power Limit (mW) | Calculated Limit (dBm) | Antenna Gain (dBi) | Determined Limit (dBm) |
|-------------|---------------|----------------------|------------------------|--------------------|------------------------|
| | | Least 26dBc BW (MHz) | | | |
| 5.6GHz Band | 802.11a | 250 | 23.97 | 0.6 | 23.97 |
| | | 21.957 | 24.42 | | |
| | 802.11n HT20 | 250 | 23.97 | | 23.97 |
| | | 22.020 | 24.43 | | |
| | 802.11n HT20 | 250 | 23.97 | | 23.97 |
| | | 41.340 | 27.16 | | |
| | 802.11ac HT80 | 250 | 23.97 | | 23.97 |
| | | 83.372 | 30.21 | | |



4.2.3 Measurement result

Date : 8-November-2022
 Temperature : 21.0 [°C]
 Humidity : 36.8 [%]
 Test place : Shielded room No.4
 Test engineer : Kazunori Saito

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) | Test Result (mW) |
|---------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | | |
| 802.11a | 36 | 5180 | 10.94 | 1.376 | 1.412 | 0.975 | 0.110 | 11.050 | 12.735 |
| | 40 | 5200 | 11.05 | | | | | 11.160 | 13.062 |
| | 58 | 5240 | 11.15 | | | | | 11.260 | 13.366 |
| | 52 | 5260 | 10.59 | 1.394 | 1.430 | 0.975 | 0.110 | 10.700 | 11.749 |
| | 56 | 5280 | 10.75 | | | | | 10.860 | 12.190 |
| | 64 | 5320 | 10.83 | | | | | 10.940 | 12.417 |
| | 100 | 5500 | 11.79 | 1.342 | 1.382 | 0.971 | 0.128 | 11.918 | 15.552 |
| | 116 | 5580 | 11.80 | | | | | 11.928 | 15.588 |
| | 140 | 5700 | 11.48 | | | | | 11.608 | 14.481 |
| | 144 | 5720 | 11.40 | | | | | 11.528 | 14.217 |

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) | Test Result (mW) |
|-----------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | | |
| 802.11n (20MHz) | 36 | 5180 | 10.78 | 1.288 | 1.324 | 0.973 | 0.119 | 10.899 | 12.300 |
| | 40 | 5200 | 10.39 | | | | | 10.509 | 11.243 |
| | 58 | 5240 | 10.46 | | | | | 10.579 | 11.426 |
| | 52 | 5260 | 9.97 | 1.392 | 1.430 | 0.973 | 0.119 | 10.089 | 10.207 |
| | 56 | 5280 | 10.62 | | | | | 10.739 | 11.855 |
| | 64 | 5320 | 10.23 | | | | | 10.349 | 10.837 |
| | 100 | 5500 | 11.19 | 1.260 | 1.298 | 0.971 | 0.128 | 11.318 | 13.546 |
| | 116 | 5580 | 11.14 | | | | | 11.268 | 13.391 |
| | 140 | 5700 | 11.32 | | | | | 11.448 | 13.957 |
| | 144 | 5720 | 11.28 | | | | | 11.408 | 13.829 |

Note1: X = On time / (On + Off time), DCF=10log (1/x)

Note2: Test Result=Reading + DCF



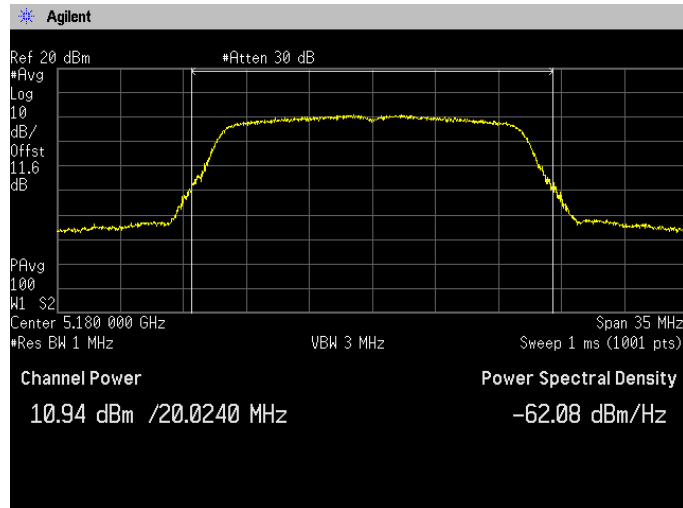
| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) | Test Result (mW) |
|-----------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | | |
| 802.11n (40MHz) | 38 | 5190 | 10.80 | 0.636 | 0.672 | 0.946 | 0.241 | 11.041 | 12.709 |
| | 46 | 5230 | 10.87 | | | | | 11.111 | 12.915 |
| | 54 | 5270 | 10.46 | 0.636 | 0.672 | 0.946 | 0.241 | 10.701 | 11.752 |
| | 62 | 5310 | 10.70 | | | | | 10.941 | 12.419 |
| | 102 | 5510 | 11.67 | 0.637 | 0.672 | 0.948 | 0.232 | 11.902 | 15.495 |
| | 110 | 5550 | 11.86 | | | | | 12.092 | 16.188 |
| | 134 | 5670 | 11.35 | | | | | 11.582 | 14.395 |
| | 142 | 5710 | 11.38 | | | | | 11.612 | 14.494 |

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) | Test Result (mW) |
|------------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | | |
| 802.11ac (80MHz) | 42 | 5210 | 10.54 | 0.325 | 0.360 | 0.903 | 0.443 | 10.983 | 12.540 |
| | 58 | 5290 | 10.20 | 0.325 | 0.360 | 0.903 | 0.443 | 10.643 | 11.596 |
| | 106 | 5530 | 11.41 | 0.324 | 0.359 | 0.903 | 0.443 | 11.853 | 15.321 |
| | 122 | 5610 | 11.29 | 0.315 | 0.352 | 0.895 | 0.482 | 11.772 | 15.038 |
| | 138 | 5690 | 10.94 | 0.324 | 0.359 | 0.903 | 0.443 | 11.383 | 13.750 |

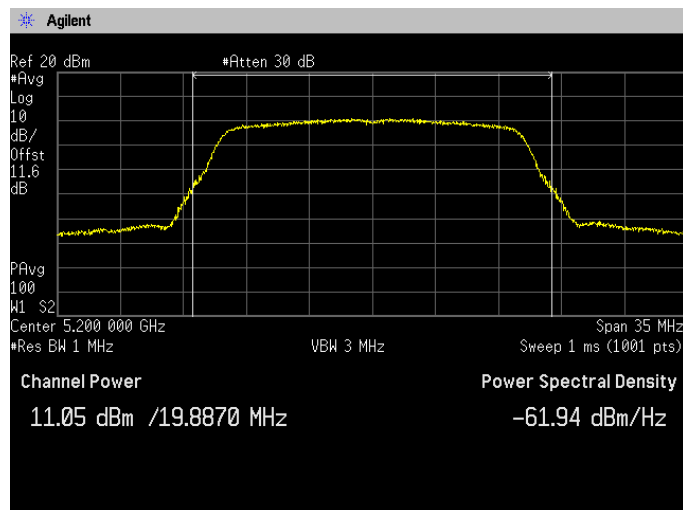
Note1: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$
 Note2: $\text{Test Result} = \text{Reading} + \text{DCF}$

4.2.4 Trace data

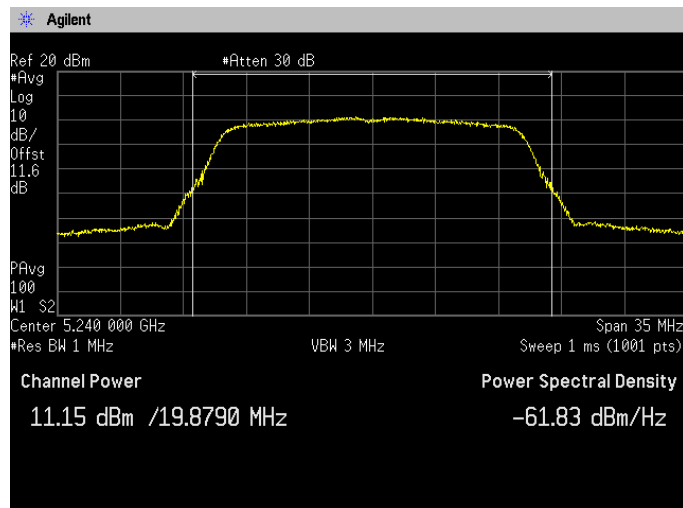
[IEEE802.11a]
 (5.2 GHz Band)
 Channel: 36



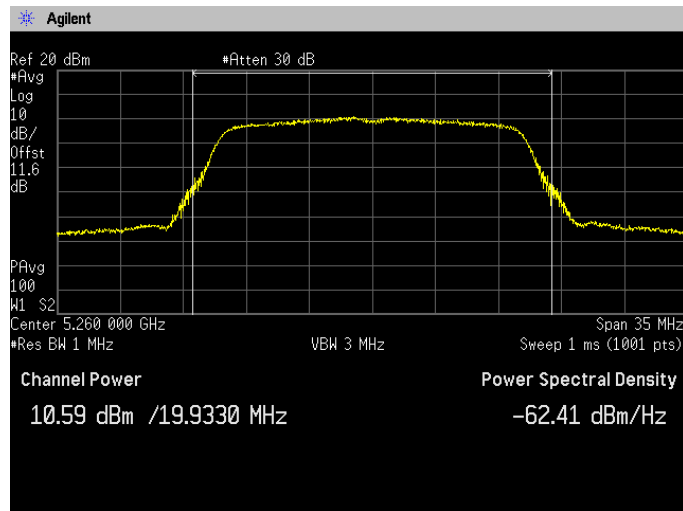
Channel: 40



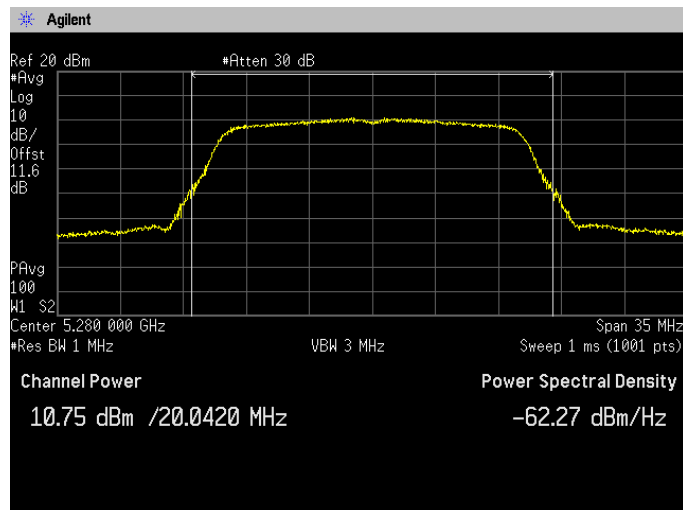
Channel: 48



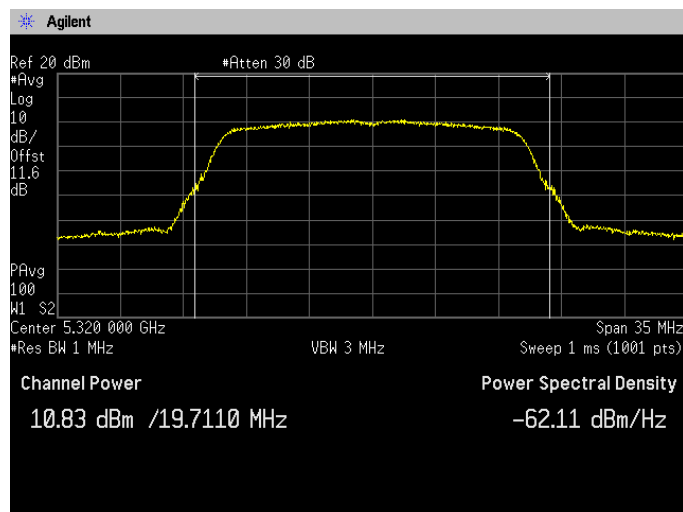
**(5.3 GHz Band)
Channel: 52**



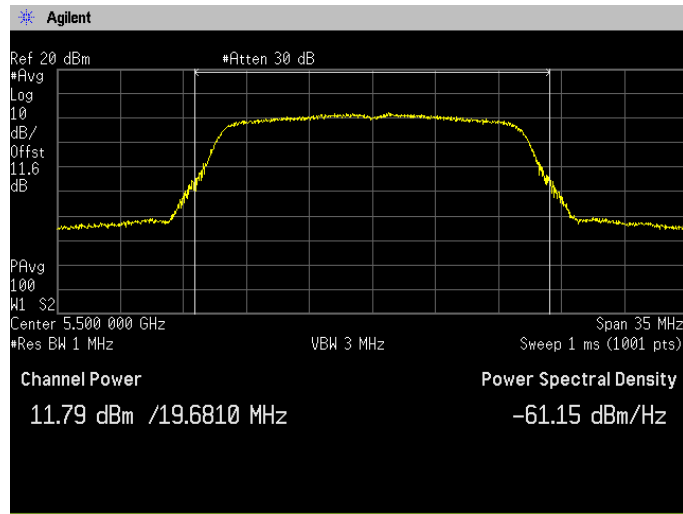
Channel: 56



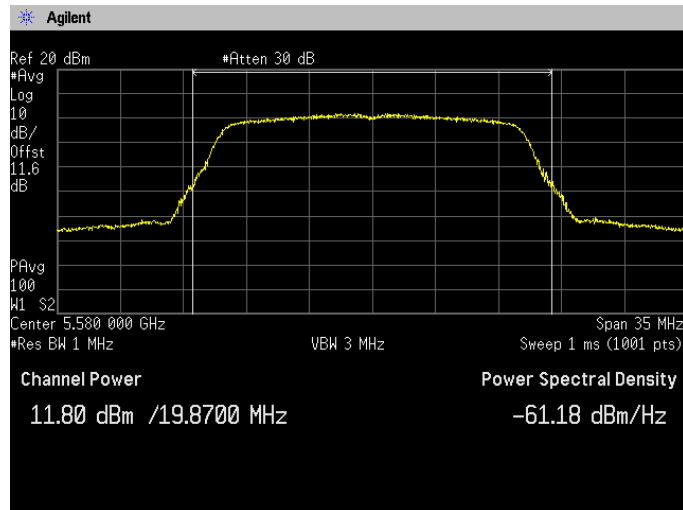
Channel: 64



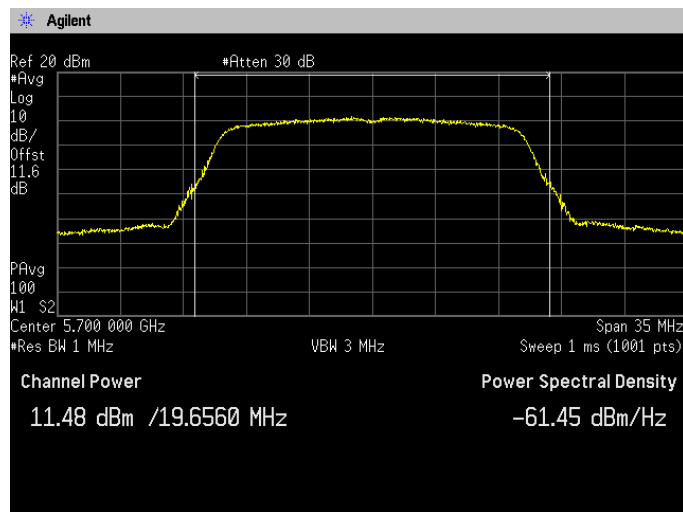
**(5.6 GHz Band)
Channel: 100**



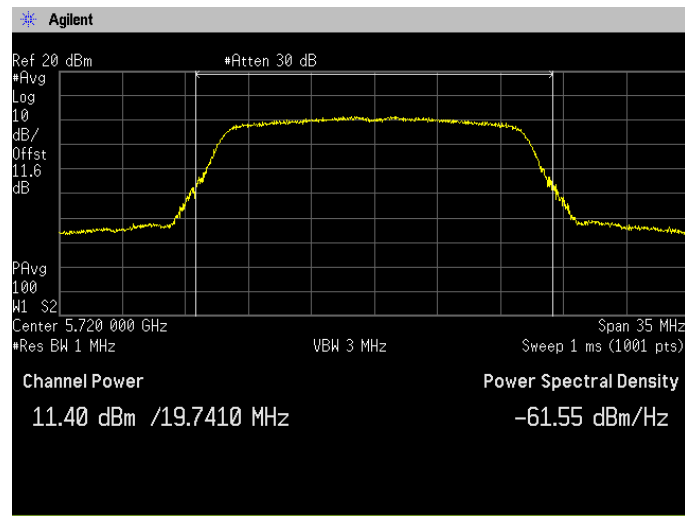
Channel: 116



Channel: 140

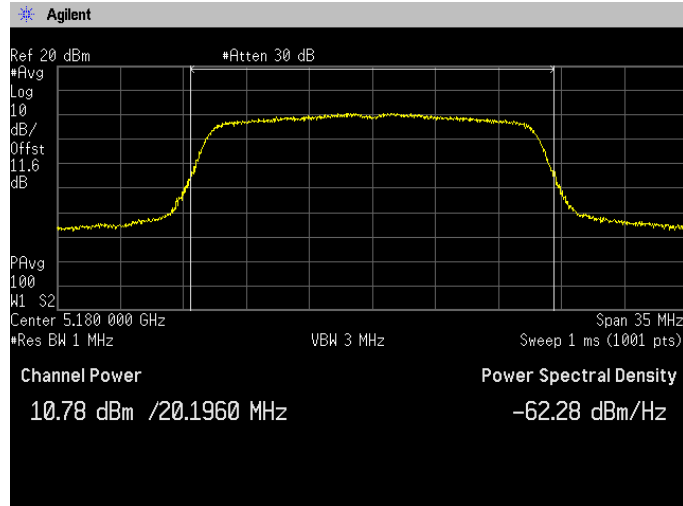


**(5.6 GHz Band)
Channel: 144**

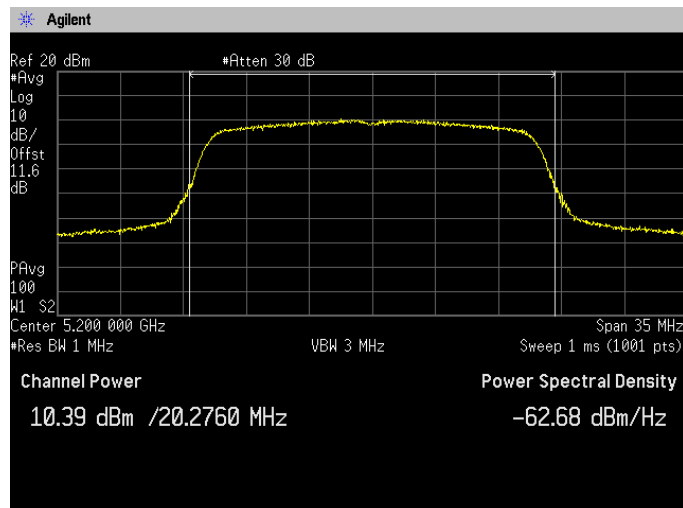




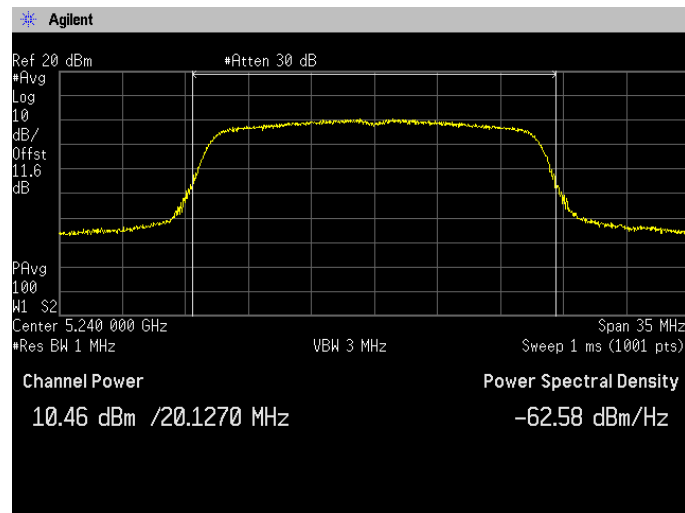
**[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 36**



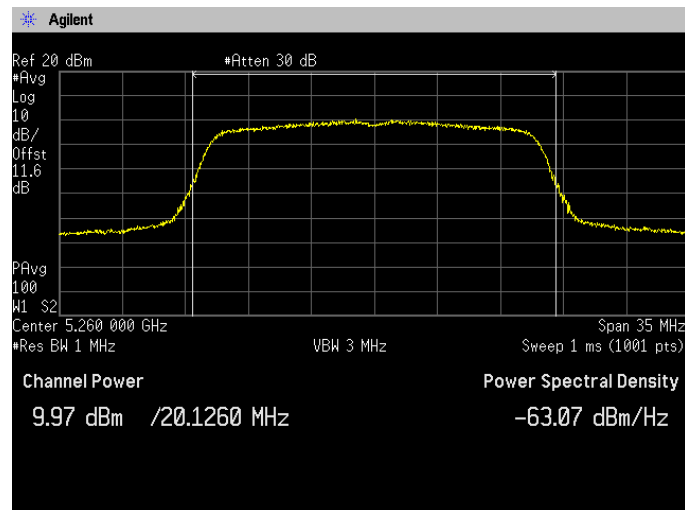
Channel: 40



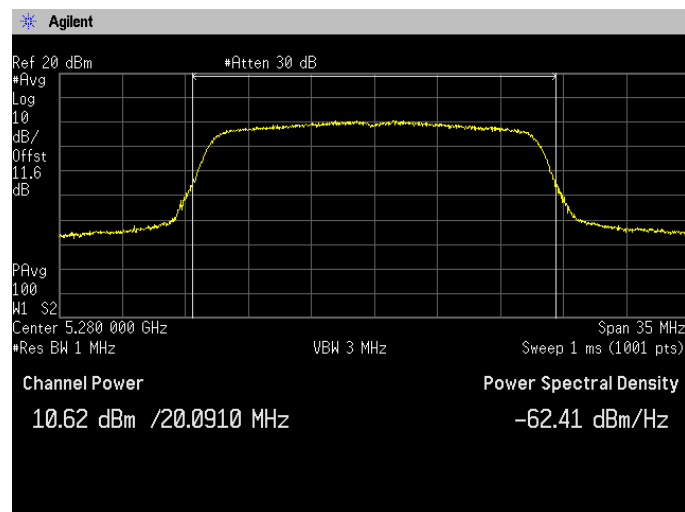
**(5.2 GHz Band)
Channel: 48**



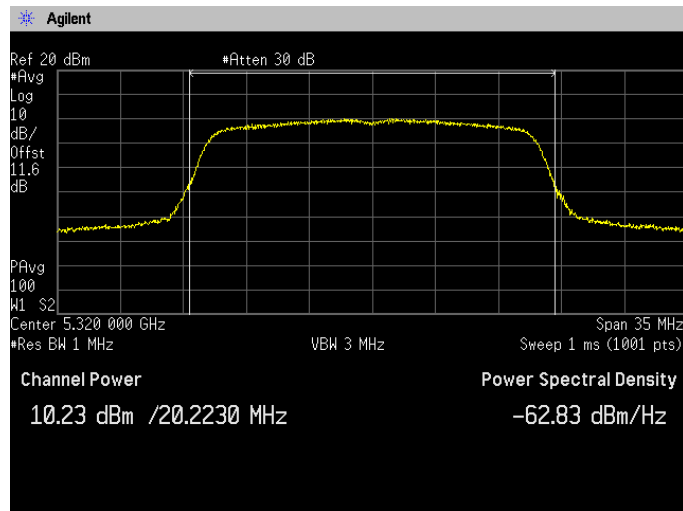
**(5.3 GHz Band)
Channel: 52**



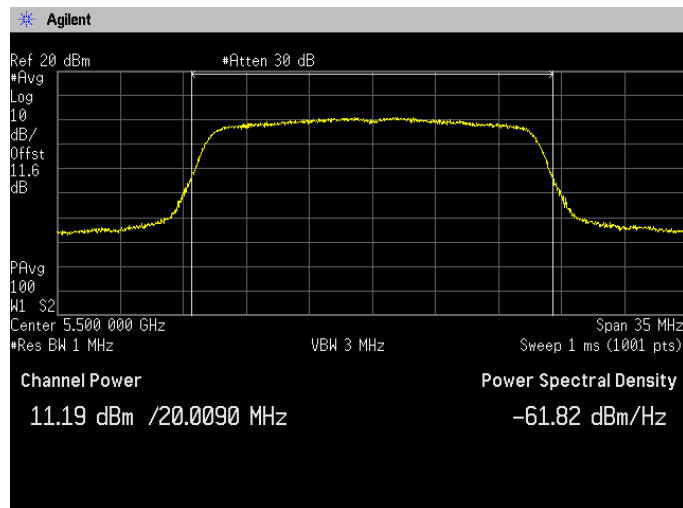
Channel: 56



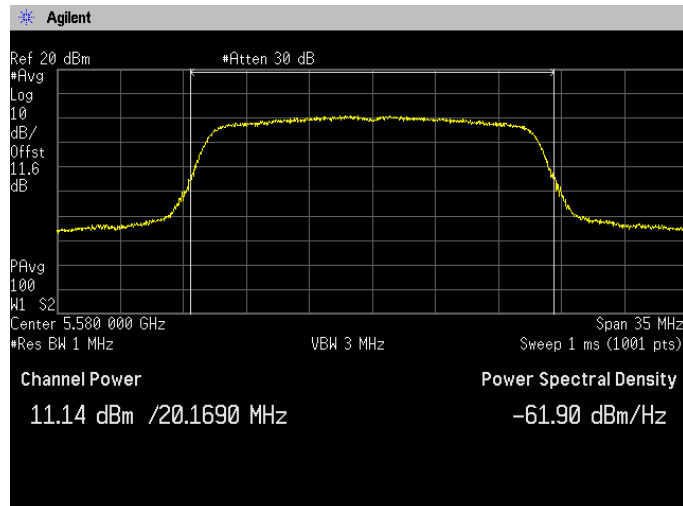
**(5.3 GHz Band)
Channel: 64**



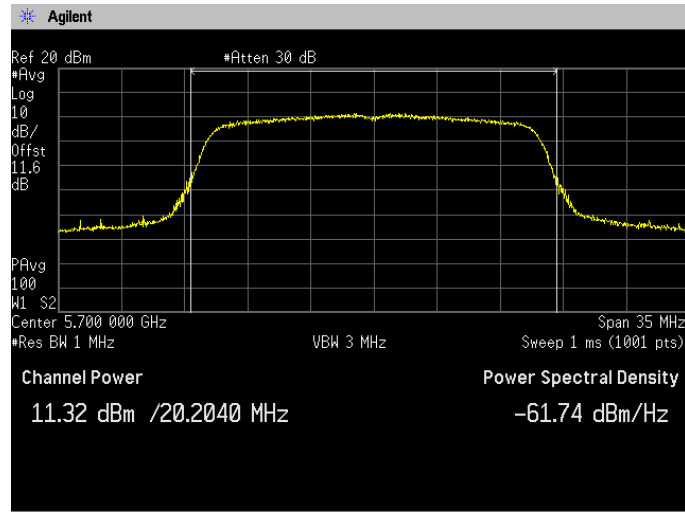
**(5.6 GHz Band)
Channel: 100**



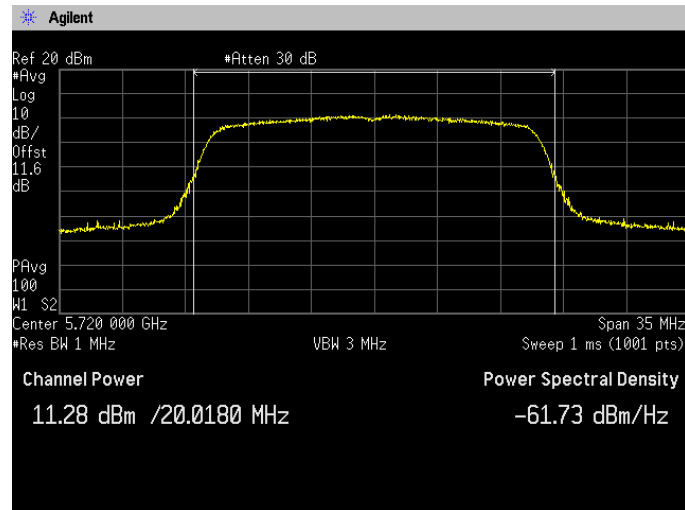
Channel: 116



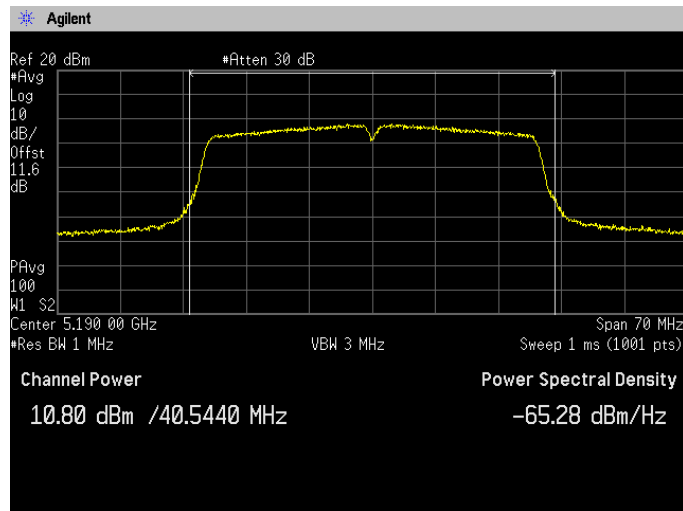
**(5.6 GHz Band)
Channel: 140**



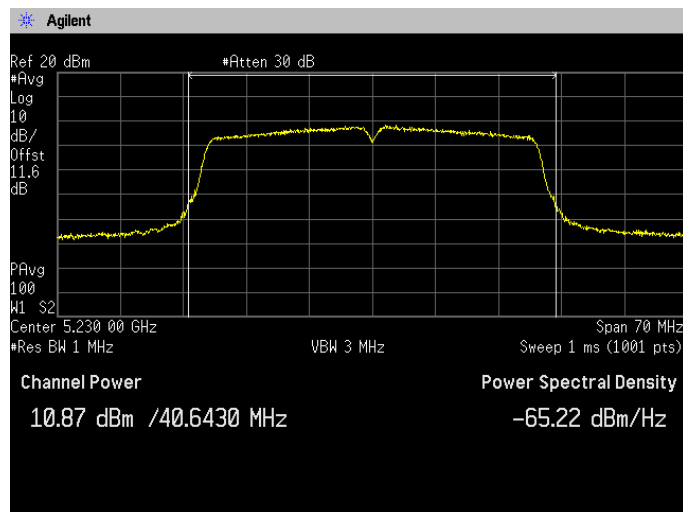
Channel: 144



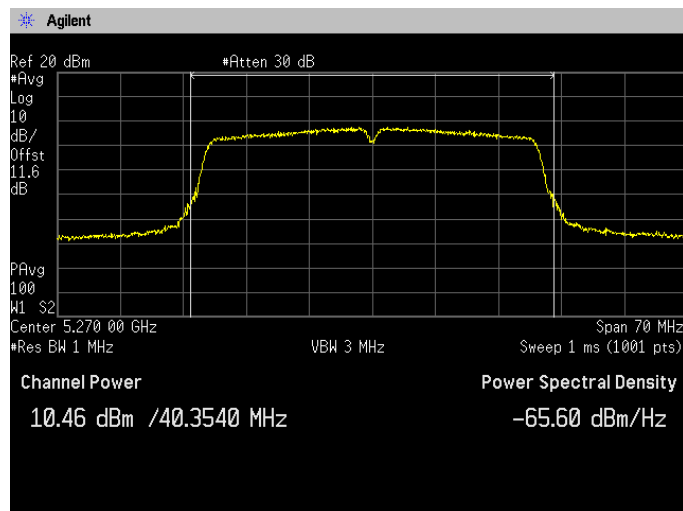
**[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38**



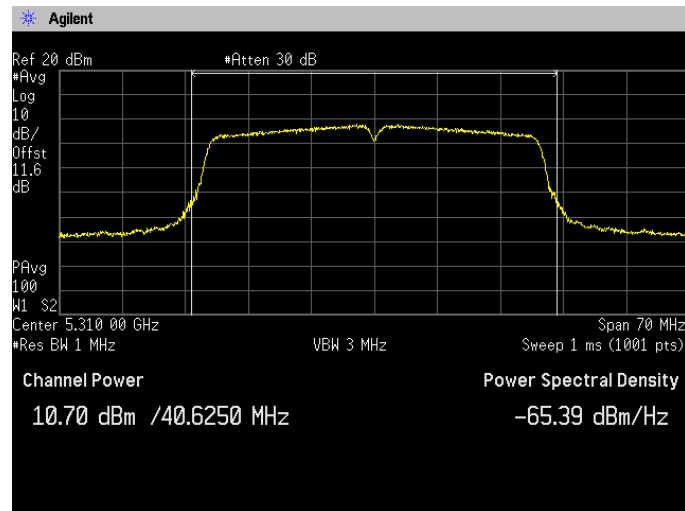
**(5.2 GHz Band)
Channel: 46**



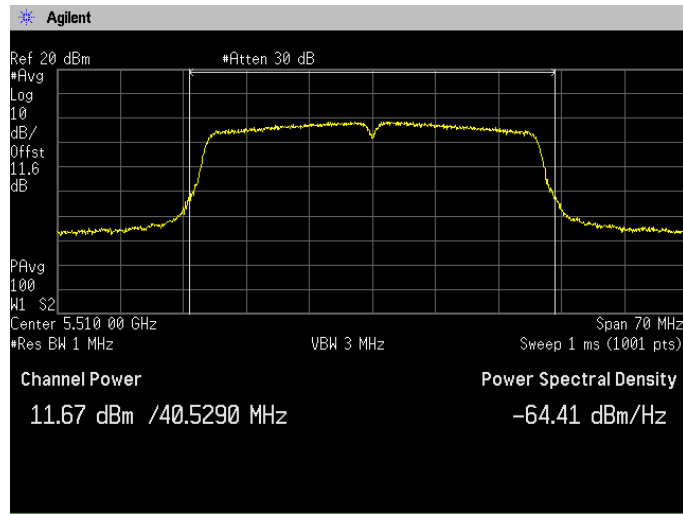
**(5.3 GHz Band)
Channel: 54**



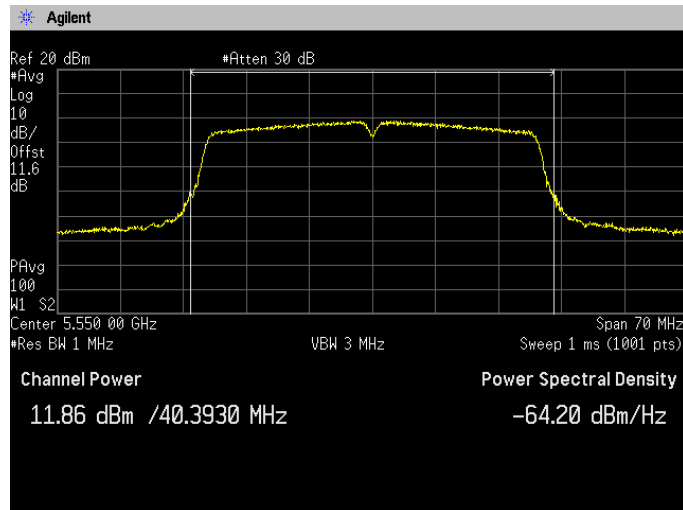
**(5.3 GHz Band)
Channel: 62**



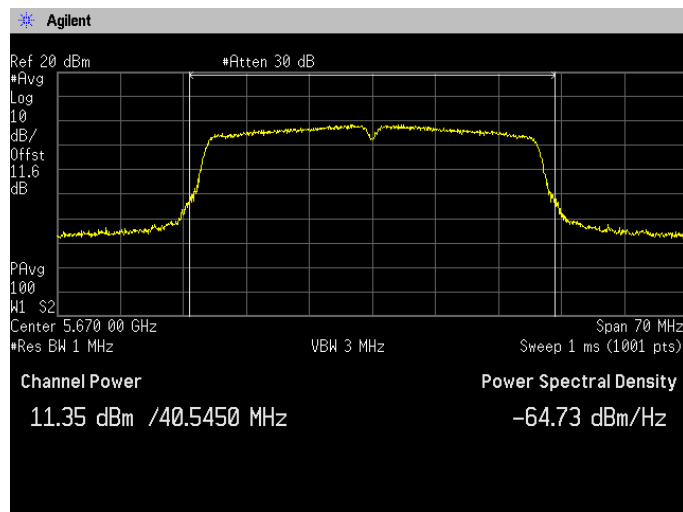
**(5.6 GHz Band)
Channel: 102**



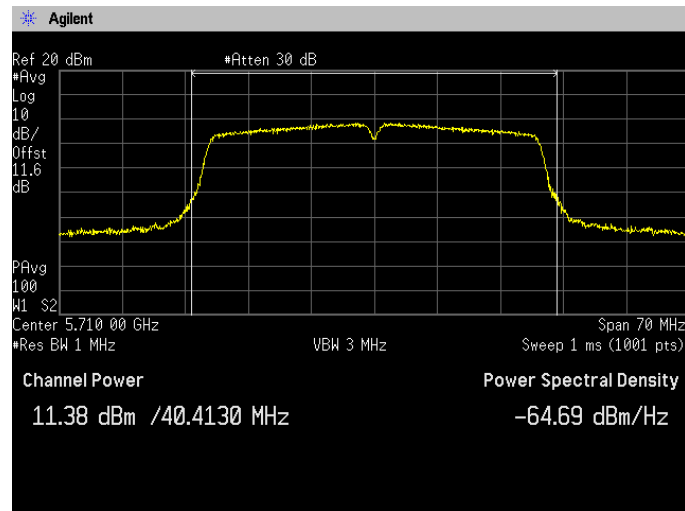
Channel: 110



Channel: 134

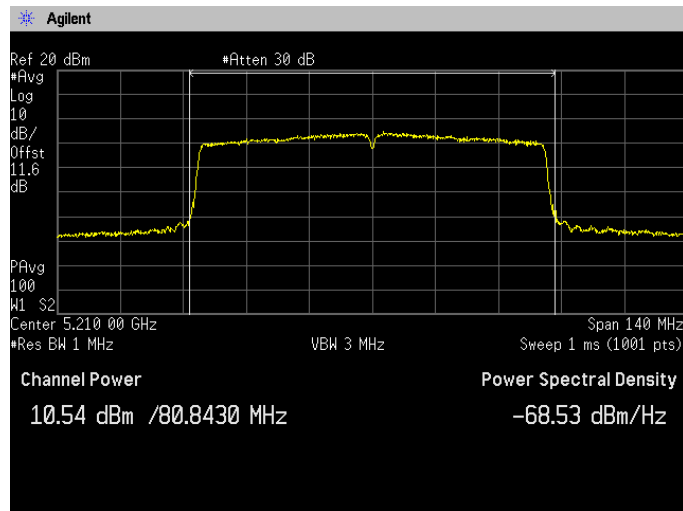


**(5.6 GHz Band)
Channel: 142**

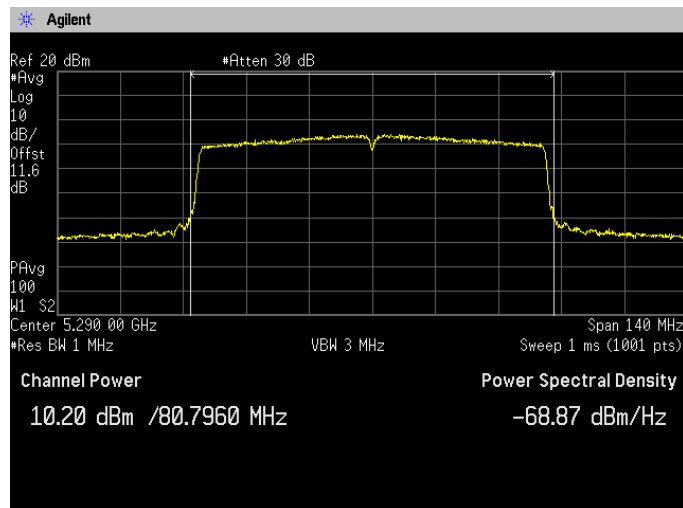




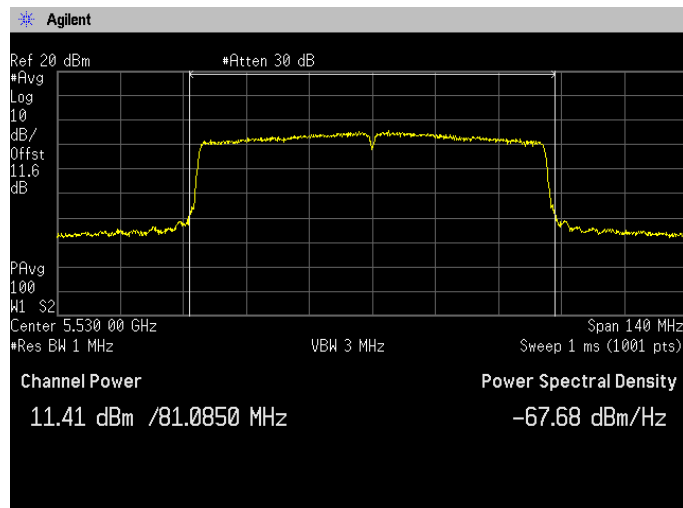
**[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42**



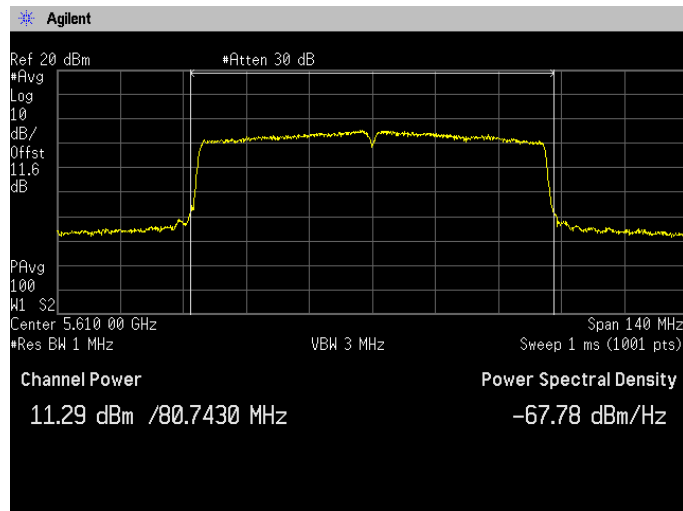
**(5.3GHz Band)
Channel: 58**



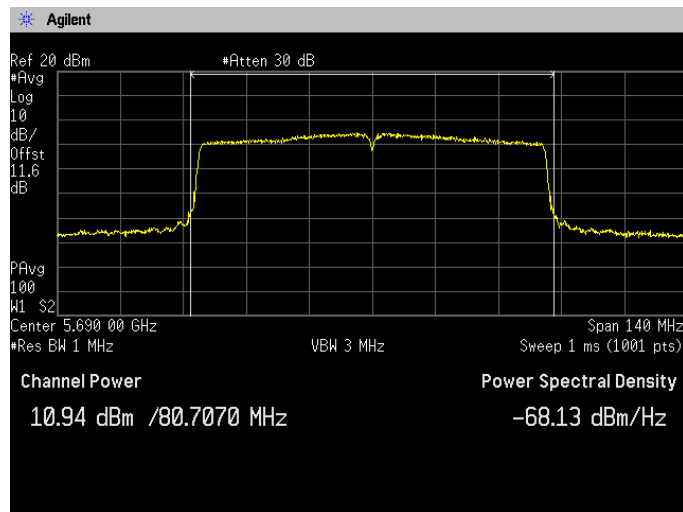
**(5.6 GHz Band)
Channel: 106**



**(5.6 GHz Band)
Channel: 122**



Channel: 138



4.3 Peak Power Spectral Density

4.3.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section F]

The peak power spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=1 MHz, VBW=3 MHz, Span=25 MHz/50 MHz/100 MHz, Sweep=Auto, Detector=RMS, Trace mode=Averaging

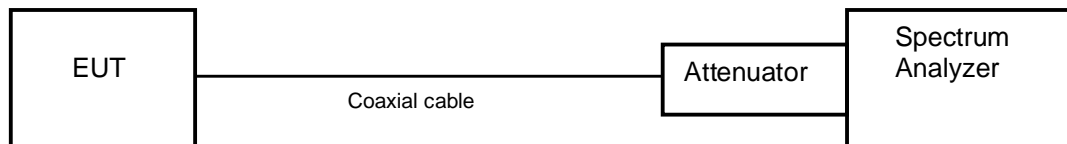
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.3.2 Limit

(1) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

(3) For the 5.725-5.85 GHz bands, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



<Peak Power Spectral Density Limit Calculation>

| Band | Limit (dBm) | Antenna Gain (dBi) | Determined Limit (dBm) |
|-------------------|-------------|--------------------|------------------------|
| 5.2, 5.3 GHz Band | 11 | 1.1 | 12.1 dBm/MHz |
| 5.6 GHz Band | 11 | 0.6 | 11.6 dBm/MHz |

4.3.3 Measurement result

Date : 8-November-2022
 Temperature : 21.0 [°C]
 Humidity : 36.8 [%]
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) |
|---------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | |
| 802.11a | 36 | 5180 | 0.629 | 1.376 | 1.412 | 0.975 | 0.110 | 0.739 |
| | 40 | 5200 | 0.728 | | | | | 0.838 |
| | 48 | 5240 | 1.047 | | | | | 1.157 |
| | 52 | 5260 | 0.657 | 1.394 | 1.430 | 0.975 | 0.110 | 0.767 |
| | 56 | 5280 | 0.457 | | | | | 0.567 |
| | 64 | 5320 | 0.684 | | | | | 0.794 |
| | 100 | 5500 | 1.590 | 1.342 | 1.382 | 0.971 | 0.128 | 1.718 |
| | 116 | 5580 | 1.833 | | | | | 1.961 |
| | 140 | 5700 | 2.003 | | | | | 2.131 |
| | 144 | 5720 | 1.841 | | | | | 1.969 |

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) |
|-----------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | |
| 802.11n (20MHz) | 36 | 5180 | 0.413 | 1.288 | 1.324 | 0.973 | 0.119 | 0.532 |
| | 40 | 5200 | 0.346 | | | | | 0.465 |
| | 48 | 5240 | 0.568 | | | | | 0.687 |
| | 52 | 5260 | 0.501 | 1.392 | 1.430 | 0.973 | 0.119 | 0.620 |
| | 56 | 5280 | 0.466 | | | | | 0.585 |
| | 64 | 5320 | 0.336 | | | | | 0.455 |
| | 100 | 5500 | 1.738 | 1.260 | 1.298 | 0.971 | 0.128 | 1.866 |
| | 116 | 5580 | 1.686 | | | | | 1.814 |
| | 140 | 5700 | 1.761 | | | | | 1.889 |
| | 144 | 5720 | 1.675 | | | | | 1.803 |

Note 1: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log(1/x)$

Note 2: $\text{Test Result} = \text{Reading} + \text{DCF}$

| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) |
|--------------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | |
| 802.11n (40MHz) | 38 | 5190 | -2.104 | 0.636 | 0.672 | 0.946 | 0.241 | -1.863 |
| | 46 | 5230 | -2.040 | | | | | -1.799 |
| | 54 | 5270 | -2.447 | 0.636 | 0.672 | 0.946 | 0.241 | -2.206 |
| | 62 | 5310 | -2.361 | | | | | -2.120 |
| | 102 | 5510 | -1.521 | 0.637 | 0.672 | 0.948 | 0.232 | -1.289 |
| | 110 | 5550 | -1.322 | | | | | -1.090 |
| | 134 | 5670 | -1.409 | | | | | -1.177 |
| | 142 | 5710 | -1.127 | | | | | -0.895 |

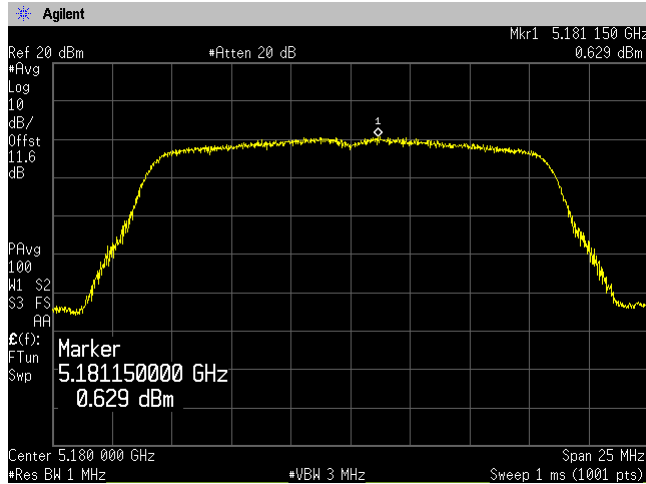
| Mode | Channel | Frequency (MHz) | Reading (dBm) | Duty Cycle | | | DCF (dB) | Test Result (dBm) |
|---------------------|---------|-----------------|---------------|-------------|-----------------|-------|----------|-------------------|
| | | | | On Time(ms) | On+Off Time(ms) | X | | |
| 802.11ac (80MHz) | 42 | 5210 | -5.751 | 0.325 | 0.360 | 0.903 | 0.443 | -5.308 |
| | 58 | 5290 | -5.800 | 0.325 | 0.360 | 0.903 | 0.443 | -5.357 |
| | 106 | 5530 | -4.395 | 0.324 | 0.359 | 0.903 | 0.443 | -3.952 |
| | 122 | 5610 | -4.905 | 0.324 | 0.359 | 0.903 | 0.443 | -4.462 |
| | 138 | 5690 | -4.496 | 0.315 | 0.352 | 0.895 | 0.482 | -4.014 |

Note 1: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log(1/x)$

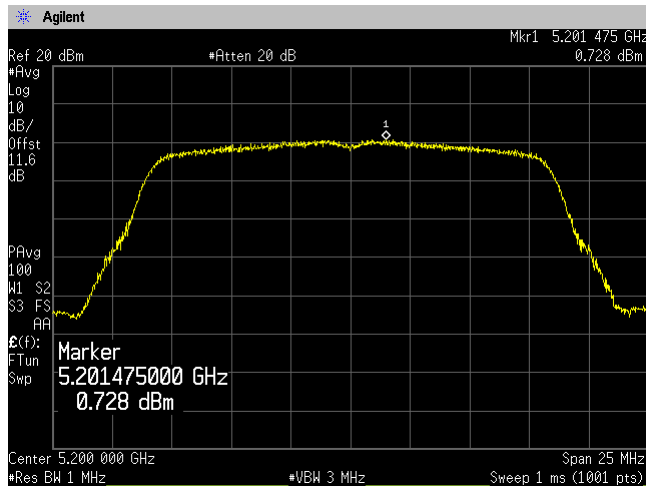
Note 2: $\text{Test Result} = \text{Reading} + \text{DCF}$

4.3.4 Trace data

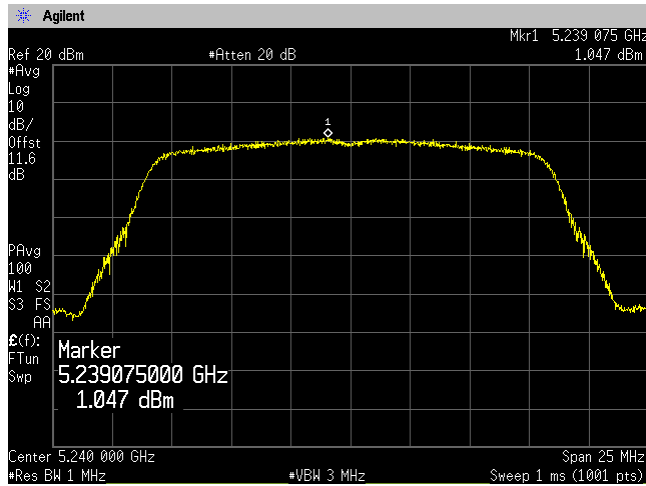
[IEEE802.11a]
(5.2 GHz Band)
Channel: 36



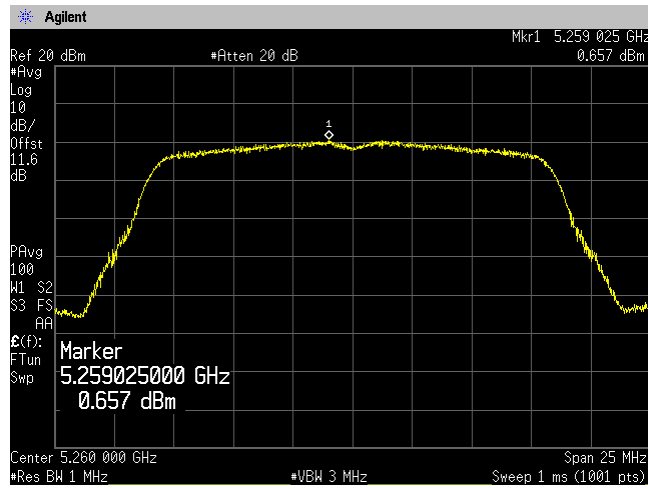
Channel: 40



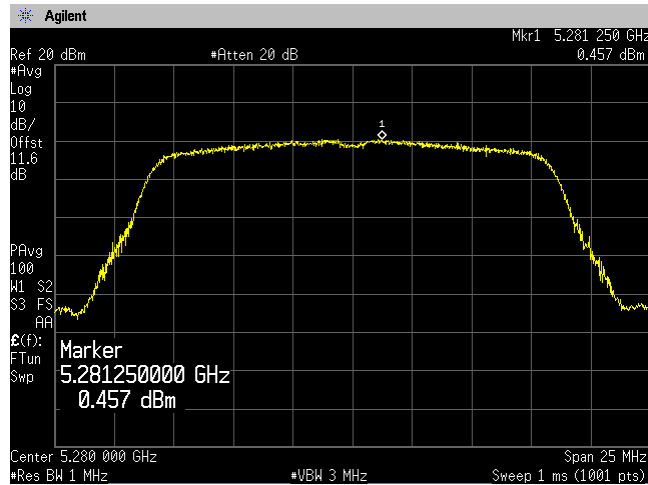
Channel: 48



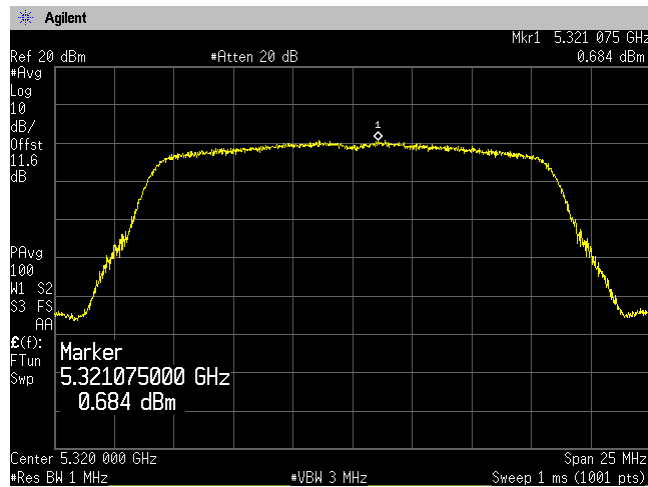
**(5.3 GHz Band)
Channel: 52**



Channel: 56

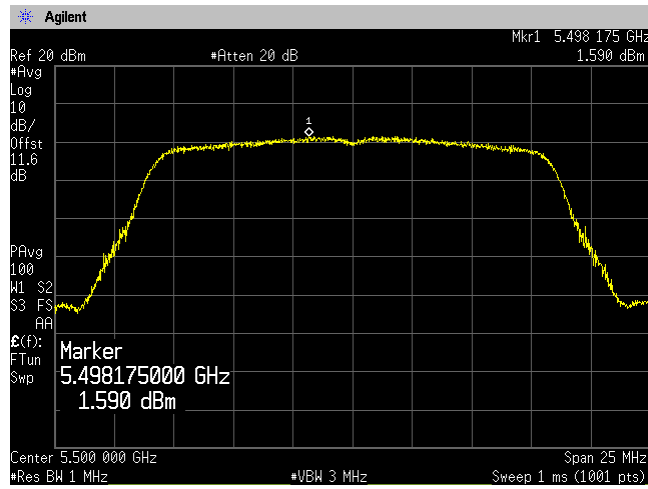


Channel: 64

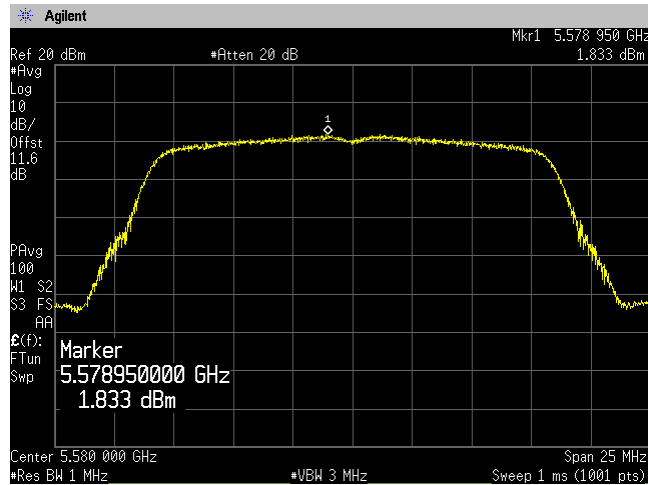




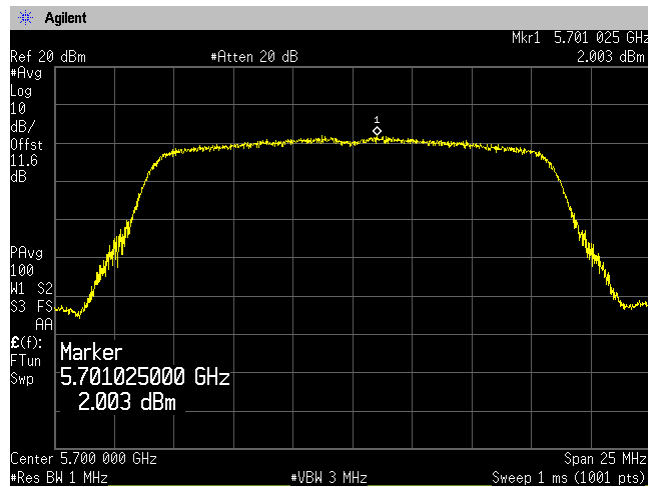
**(5.6 GHz Band)
Channel: 100**



Channel: 116



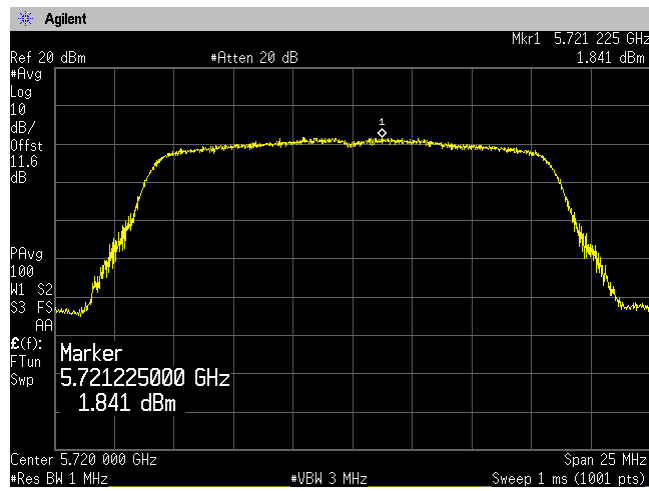
Channel: 140



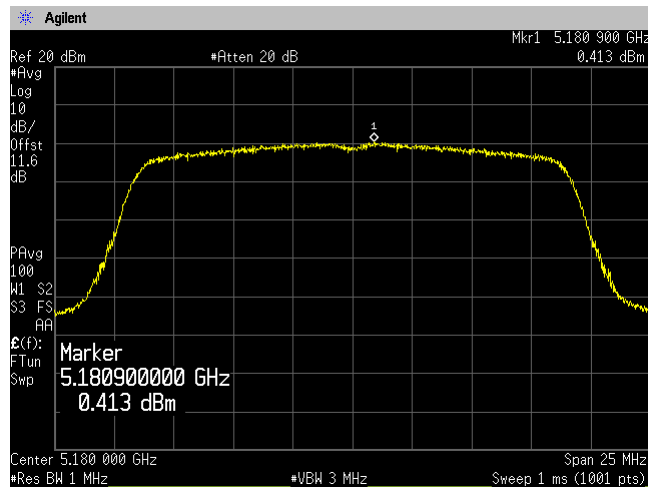


Japan

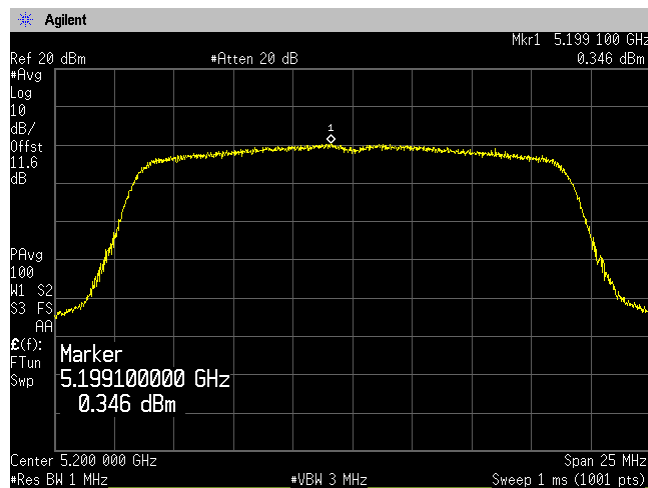
**(5.6 GHz Band)
Channel: 144**



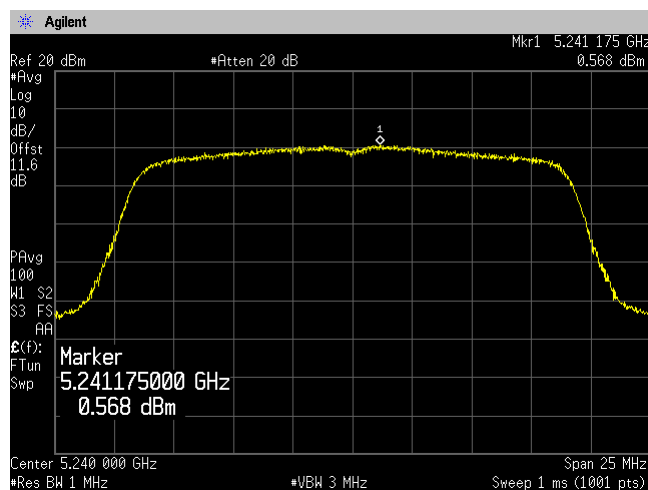
**[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 36**



Channel: 40

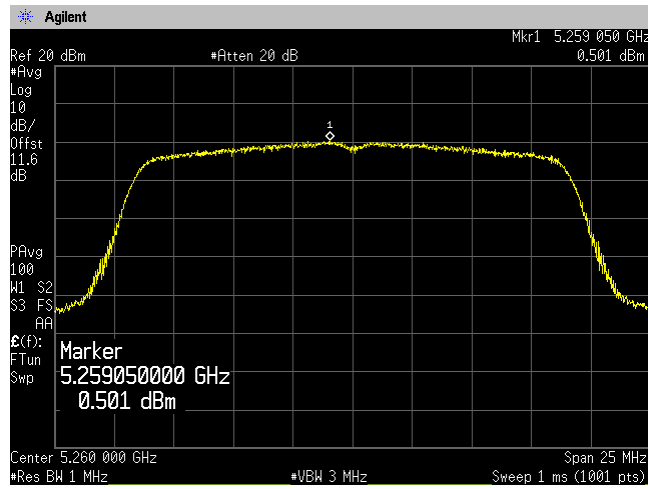


Channel: 48

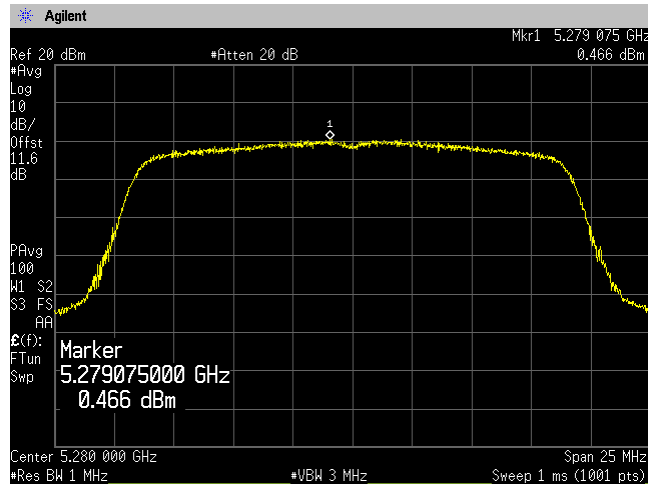




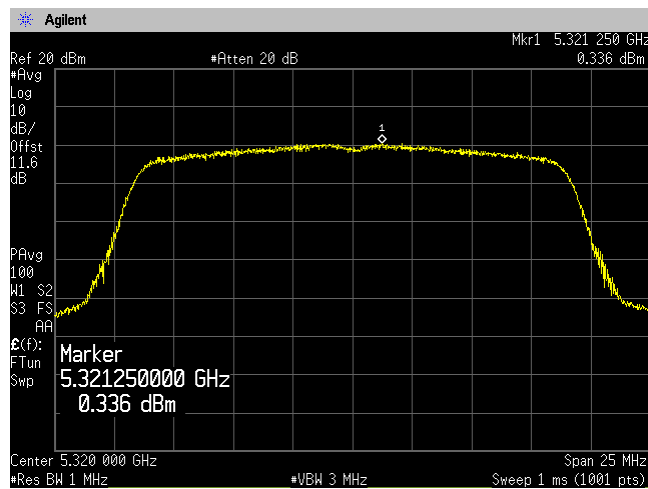
**(5.3 GHz Band)
Channel: 52**



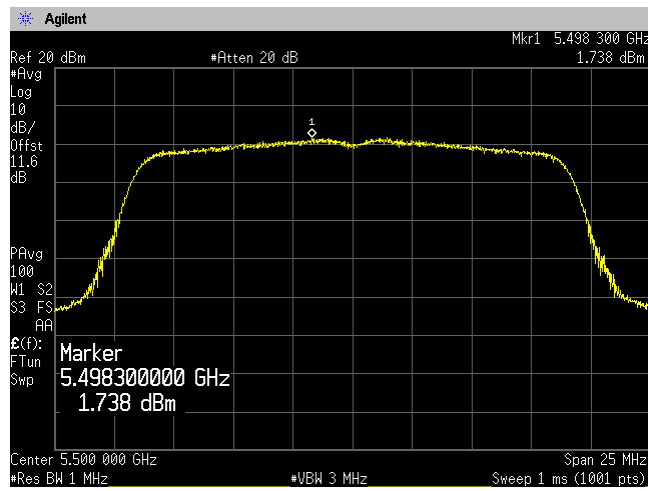
Channel: 56



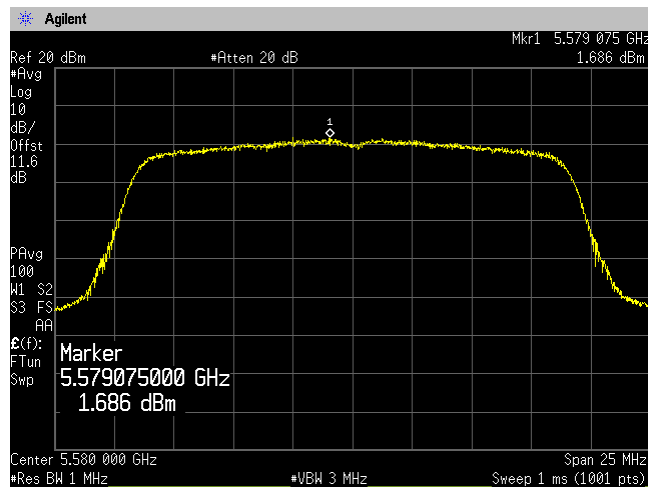
Channel: 64



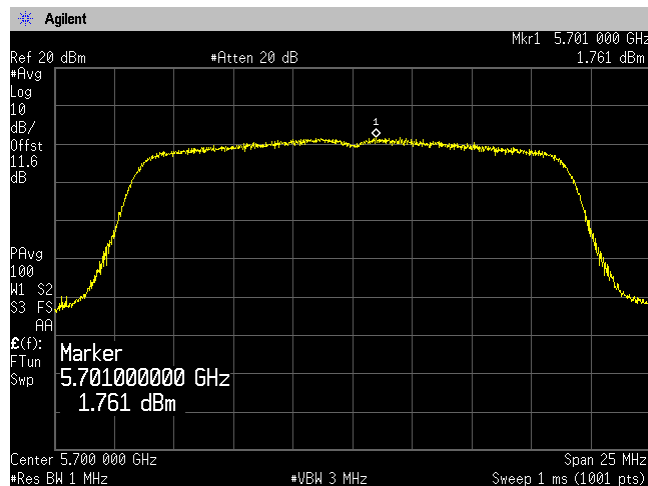
**(5.6 GHz Band)
Channel: 100**



Channel: 116

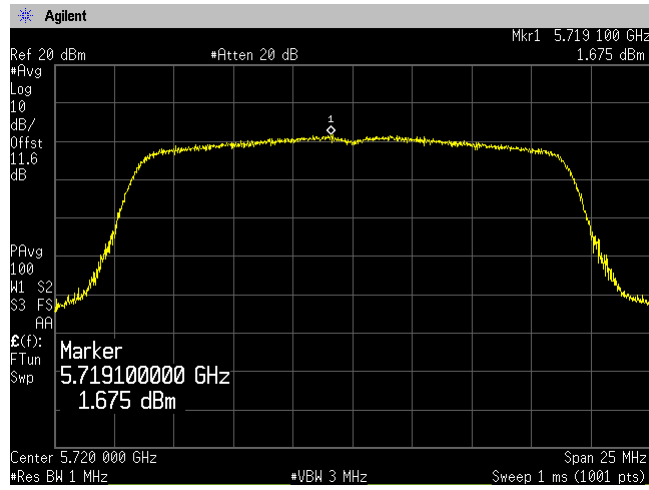


Channel: 140

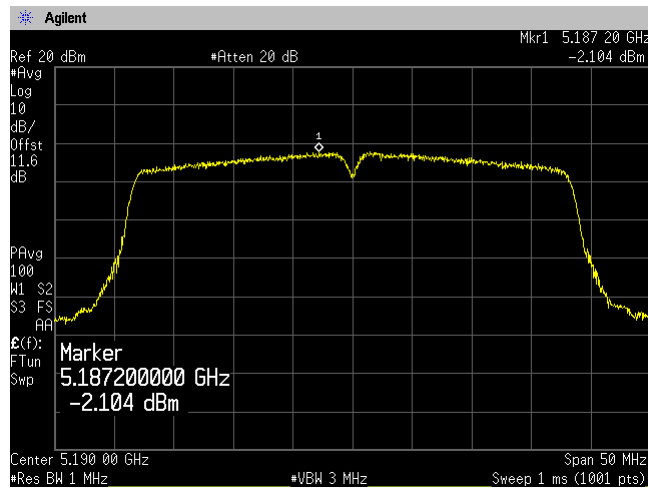




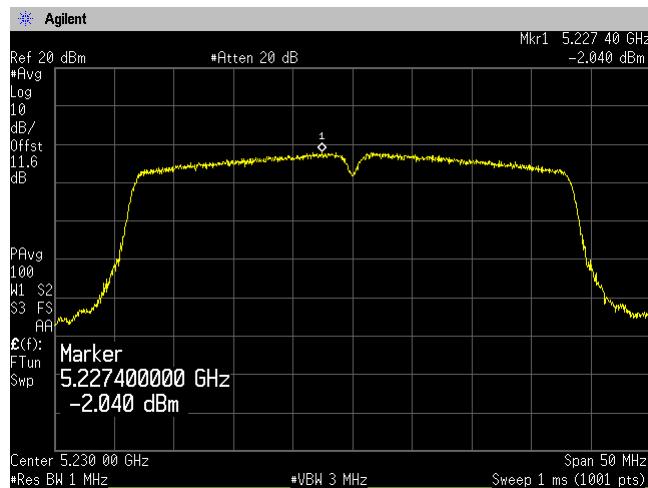
**(5.6 GHz Band)
Channel: 144**



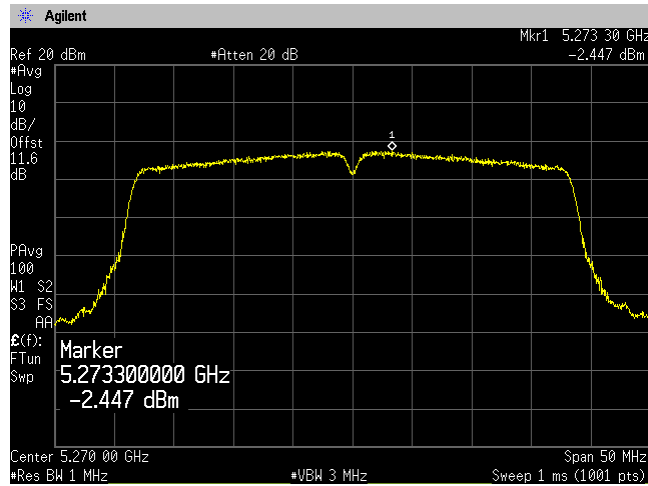
[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38



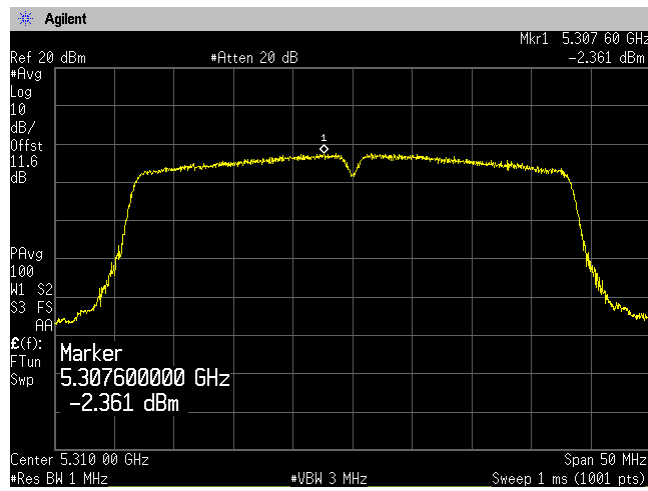
(5.2 GHz Band)
Channel: 46



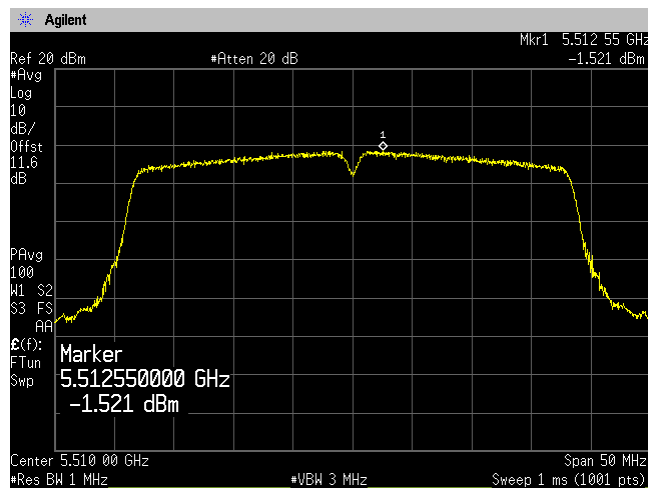
(5.3 GHz Band)
Channel: 54



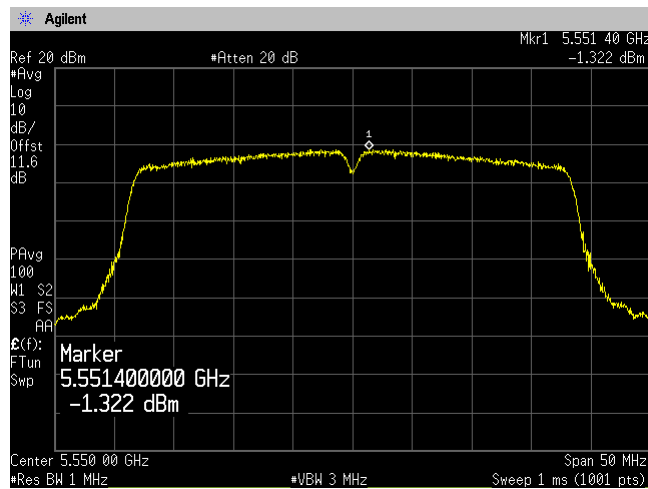
**(5.3 GHz Band)
Channel: 62**



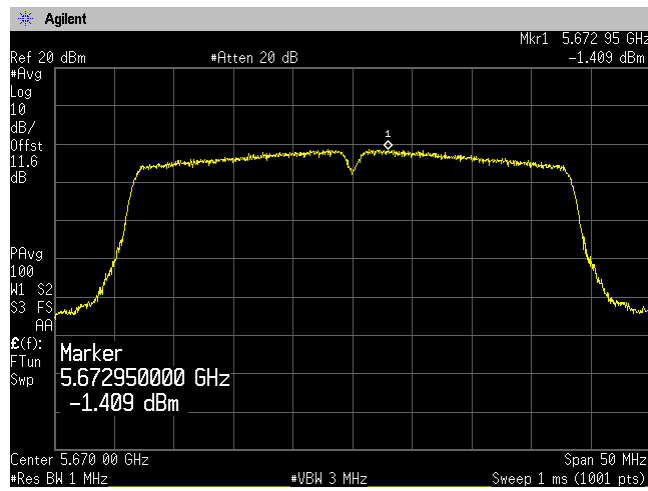
**(5.6 GHz Band)
Channel: 102**



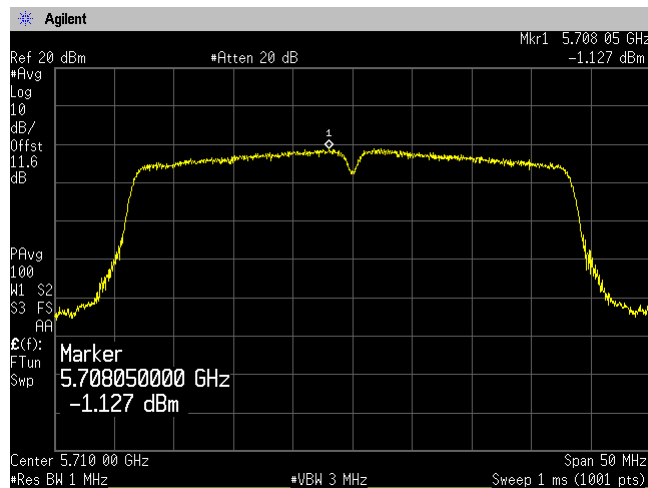
Channel: 110



**(5.6 GHz Band)
Channel: 134**

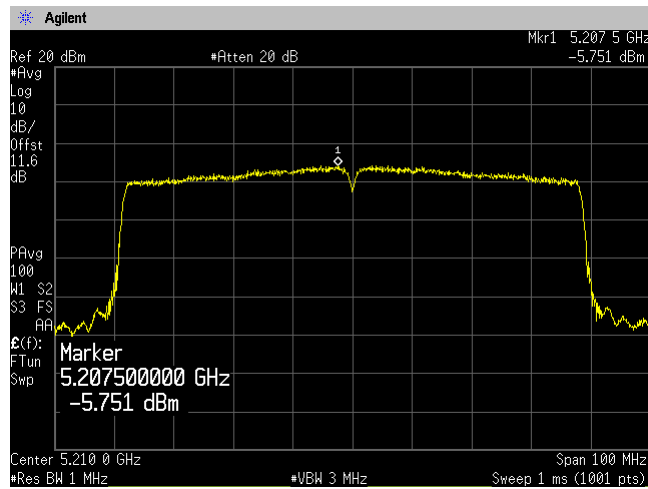


**(5.6 GHz Band)
Channel: 142**

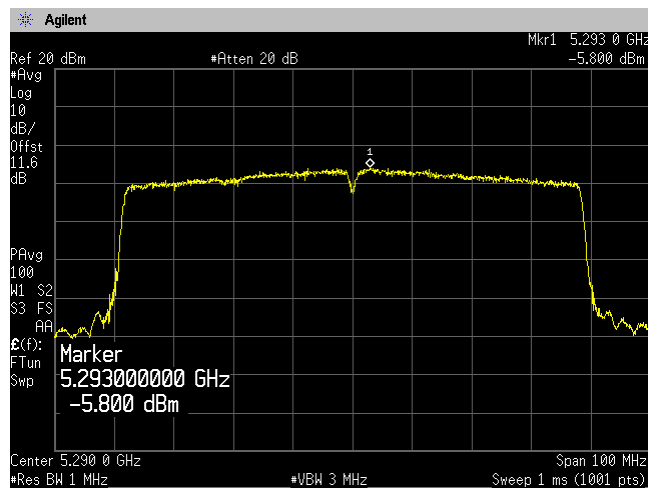




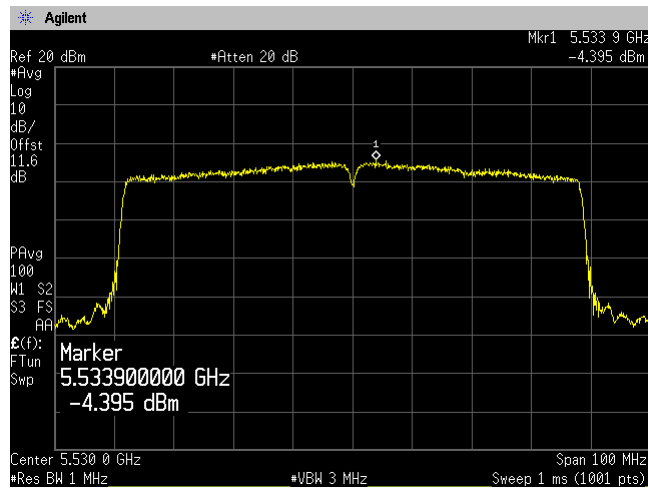
[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



(5.3GHz Band)
Channel: 58

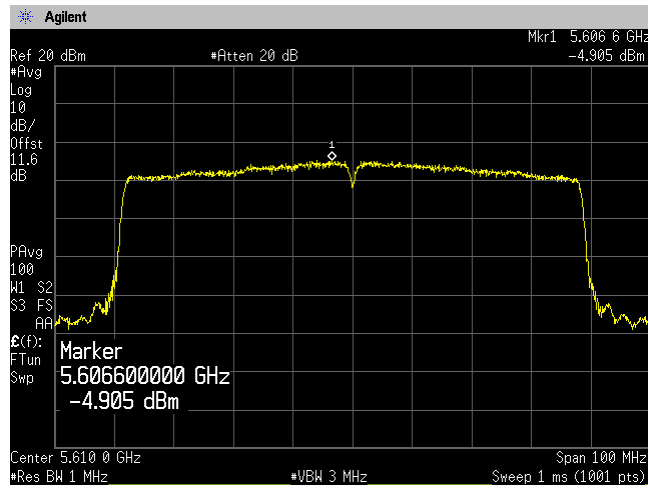


(5.6GHz Band)
Channel: 106

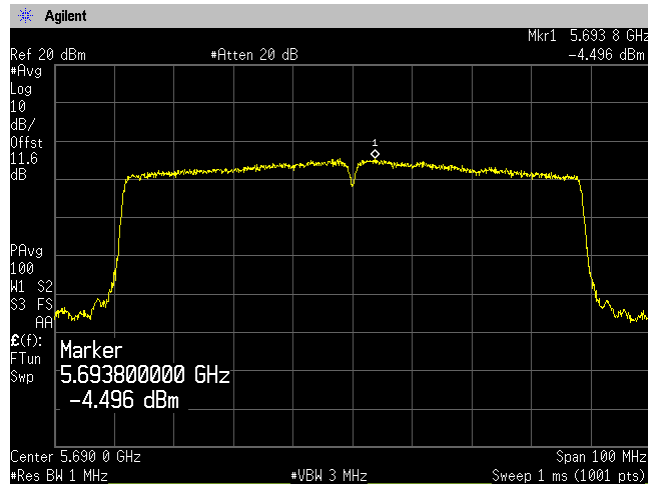




**(5.6GHz Band)
Channel: 122**



Channel: 138



4.4 Radiated Emissions (Restricted Bands of Operation)

4.4.1 Measurement procedure

[FCC 15.407(b), 15.205, 15.209, KDB 789033 D02, Section G.4, 5, 6.c) Method AD]

Test was applied by following conditions.

| | | |
|---------------------------|---|--|
| Test method | : | ANSI C63.10 |
| Frequency range | : | 9 kHz to 40 GHz |
| Test place | : | 3m Semi-anechoic chamber |
| EUT was placed on | : | Styrofoam table / (W) 1.0 x (D) 1.0 x(H) 0.8 m (below 1 GHz) Styrofoam table / (W) 0.6 x (D) 0.6 x(H) 1.5 m (above 1 GHz) |
| Antenna distance | : | 3m |
| Test receiver setting | : | Below 1 GHz |
| - Detector | : | Quasi-peak |
| - Bandwidth | : | 120 kHz |
| Spectrum analyzer setting | : | Above 1 GHz |
| - Peak | : | RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=Peak Trace mode=Max hold |
| - Average | : | RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=RMS Trace mode=Averaging (300 counts) |

Radiated emission measurements are performed at 3m distance with the broadband antenna (Loop antenna, Biconical antenna, Log periodic antenna, Double ridged guide antenna and Broad-band horn Antenna). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1m to 4m and stopped at height producing the maximum emission. As for the Loop antenna, it is positioned with its plane vertical, and the center of the Loop antenna is 1m above the ground plane.

The EUT is Placed on a turntable, which is 0.8m (below 1 GHz) and 1.5m (above 1 GHz) above ground plane. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. The test results represent the worst case emission for each emission with manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation. Sufficient time for the EUT, support equipment, and test equipment are allowed in order for them to warm up to their normal operating condition.

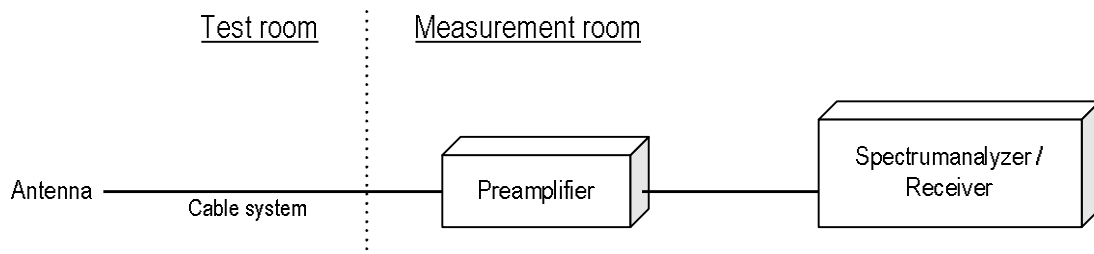
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode, Rx mode

- Test configuration



Duty cycle result

| Mode | Band | On Time(ms) | On+Off Time(ms) | Duty Cycle (%) | DCF (dB) |
|---------------------|------|-------------|-----------------|----------------|----------|
| 802.11a | W52 | 1.376 | 1.412 | 97.45 | 0.112 |
| | W53 | 1.394 | 1.430 | 97.48 | 0.111 |
| | W56 | 1.342 | 1.382 | 97.11 | 0.128 |
| 802.11n (20MHz) | W52 | 1.288 | 1.324 | 97.28 | 0.120 |
| | W53 | 1.392 | 1.430 | 97.34 | 0.117 |
| | W56 | 1.260 | 1.298 | 97.07 | 0.129 |
| 802.11n (40MHz) | W52 | 0.636 | 0.672 | 94.64 | 0.239 |
| | W53 | 0.636 | 0.672 | 94.64 | 0.239 |
| | W56 | 0.637 | 0.672 | 94.79 | 0.232 |
| 802.11ac (80MHz) | W52 | 0.325 | 0.360 | 90.28 | 0.444 |
| | W53 | 0.315 | 0.352 | 89.49 | 0.482 |
| | W56 | 0.324 | 0.359 | 90.25 | 0.445 |

Note: $DCF = 10\log(1/x)$

4.4.2 Calculation method

[150 kHz to 25 GHz]

Emission level = Reading + (Ant. factor + Cable system loss - Amp. Gain)

Margin = Limit - Emission level

Example:

Detector: Peak

Limit @ 5147.0 MHz: 74.0 dBuV/m (Peak Limit)

S.A Reading = 40.9 dBuV Cable system loss = 16.4 dB

Result = 40.9 + 16.4 = 57.3 dBuV/m

Margin = 74.0 - 57.3 = 16.7 dB

4.4.3 Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: all emissions outside of the 5.47 5-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

| Frequency [MHz] | Field strength | | Distance [m] |
|--------------------|-----------------|---------------|-----------------|
| | [uV/m] | [dBuV/m] | |
| 0.009-0.490 | 2400 / F [kHz] | 20logE [uV/m] | 300 |
| 0.490-1.705 | 24000 / F [kHz] | 20logE [uV/m] | 30 |
| 1.705-30 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40.0 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46.0 | 3 |
| Above 960 | 500 | 54.0 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = 20log Emission [uV/m]
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition modulation.



Japan

4.4.4 Test data

Date : 13-October-2022
Temperature : 23.5 [°C]
Humidity : 37.8 [%]
Test place : 3m Semi-anechoic chamber

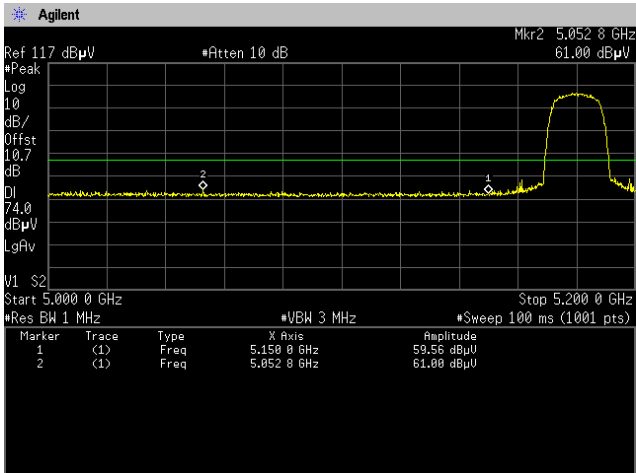
Test engineer : Tadahiro Seino



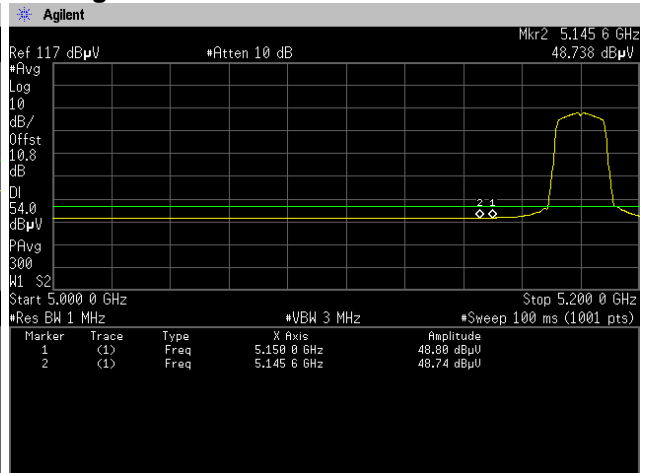
4.4.4.1 Restricted Bandedge

[IEEE802.11a]

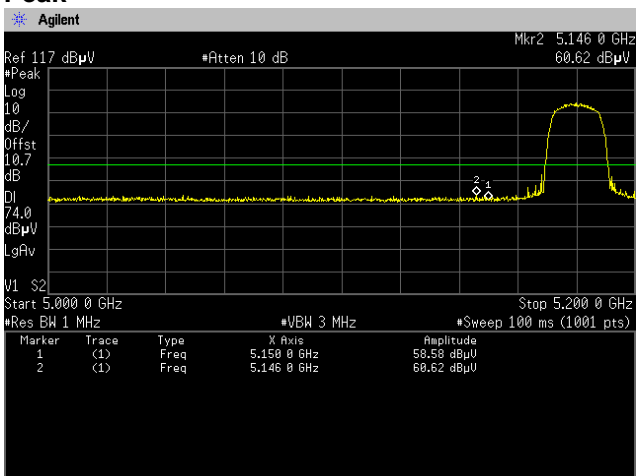
5.2 GHz Band, Channel Low Horizontal Peak



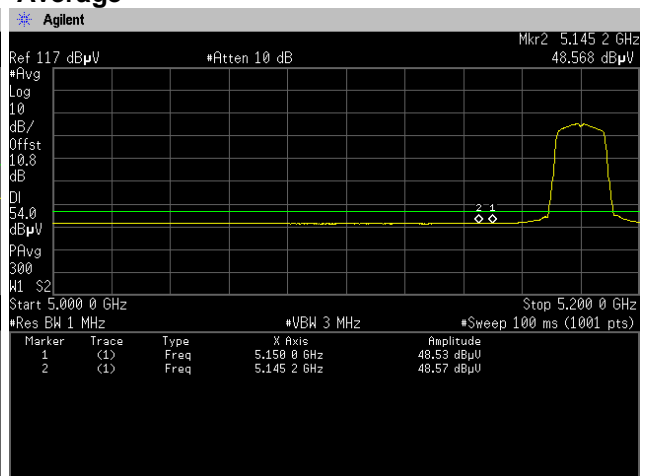
Average



Vertical Peak



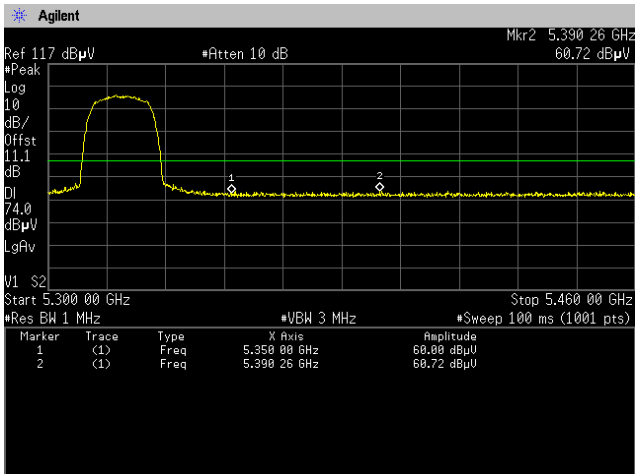
Average



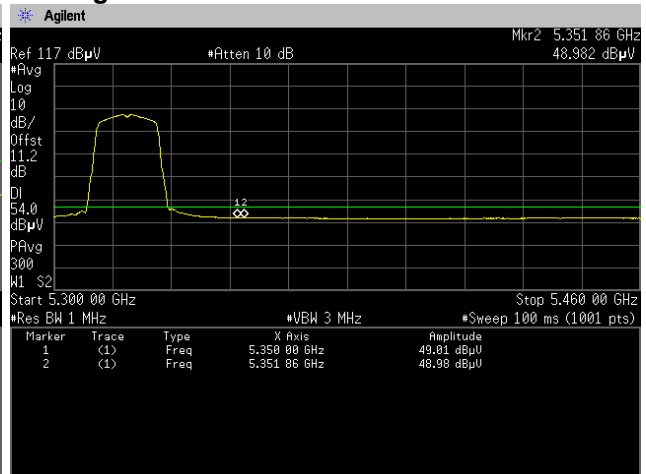


[IEEE802.11a]

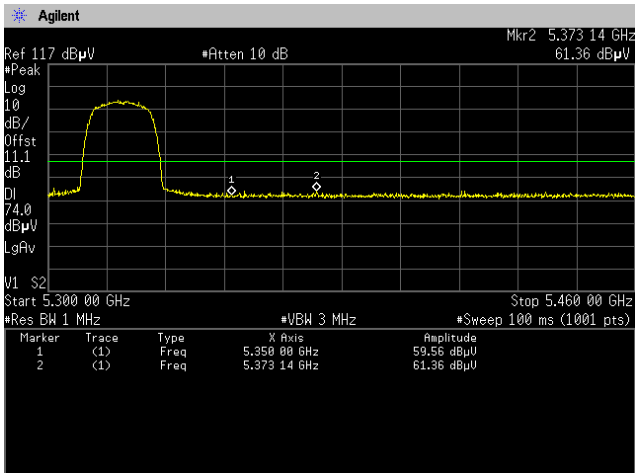
5.3 GHz Band, Channel High
Horizontal
Peak



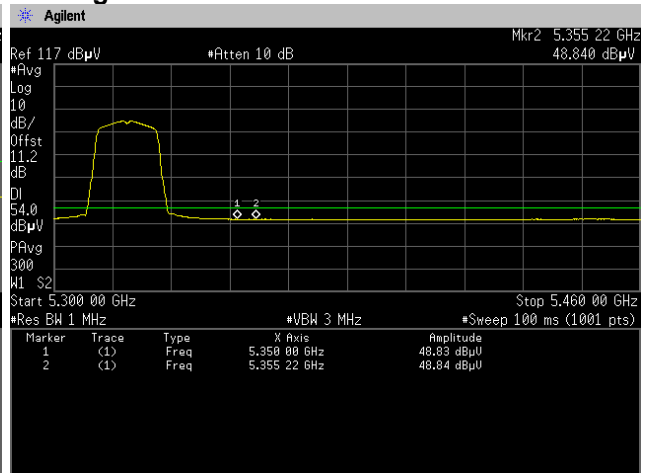
Average



Vertical
Peak



Average

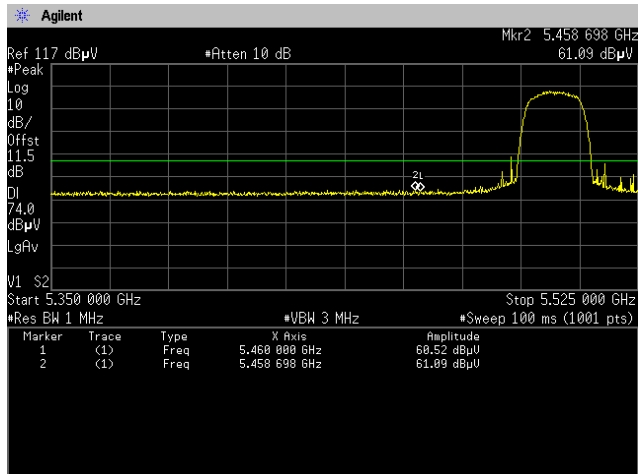




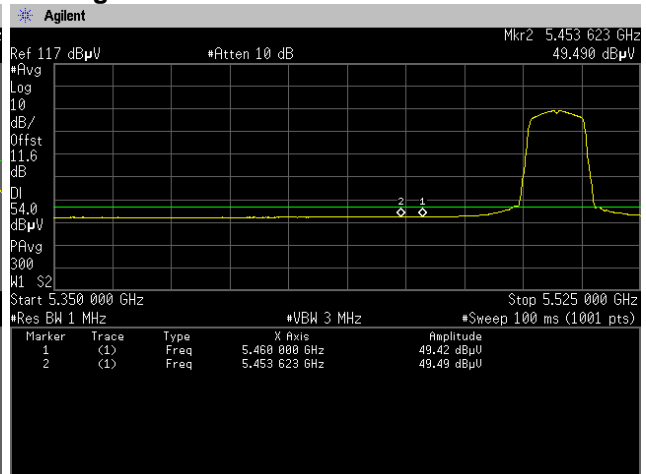
[IEEE802.11a]

5.6 GHz Band, Channel Low
Horizontal

Peak

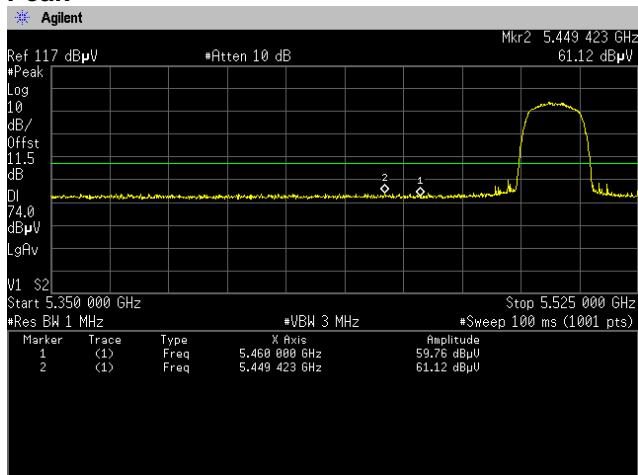


Average

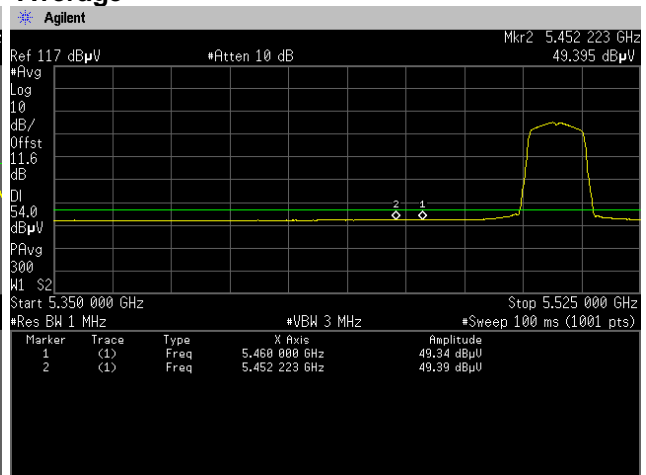


Vertical

Peak



Average

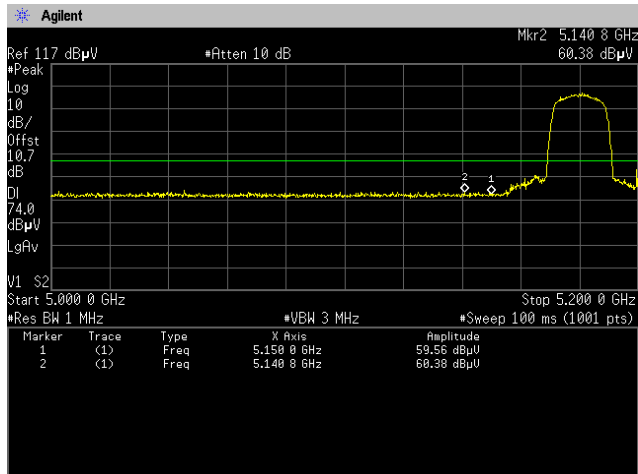




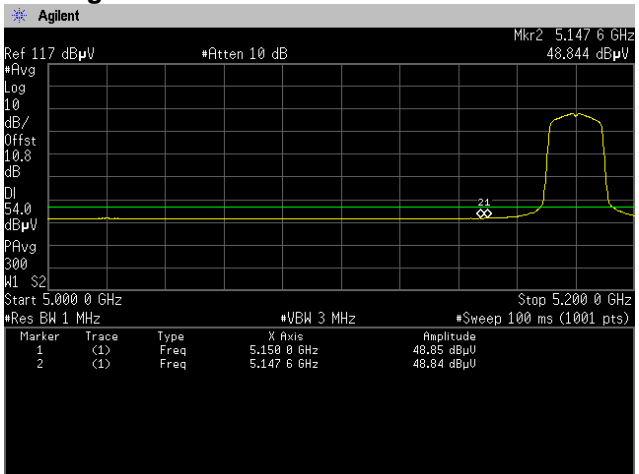
[IEEE802.11n (HT20)]

5.2 GHz Band, Channel Low
Horizontal

Peak

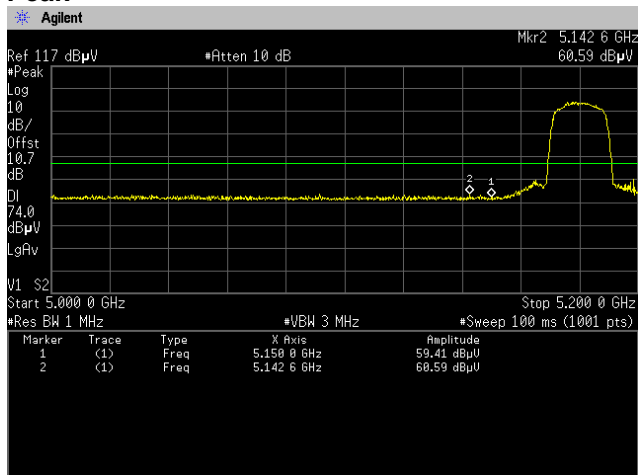


Average

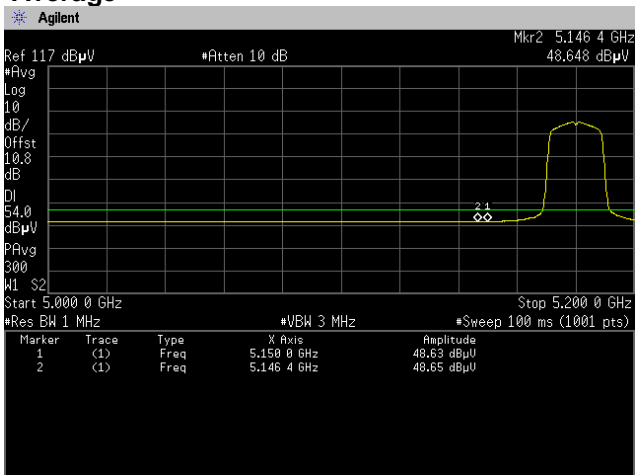


Vertical

Peak



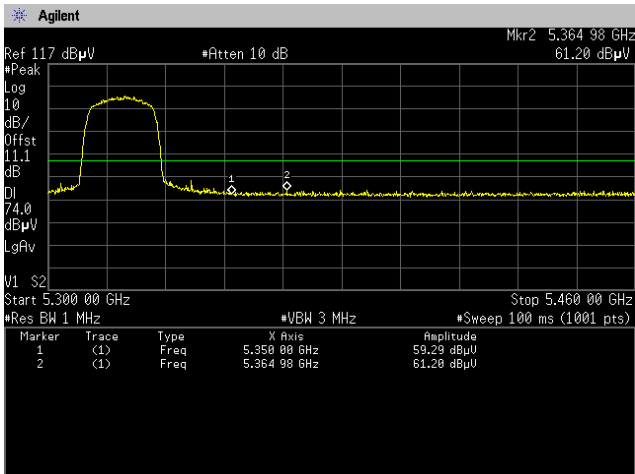
Average



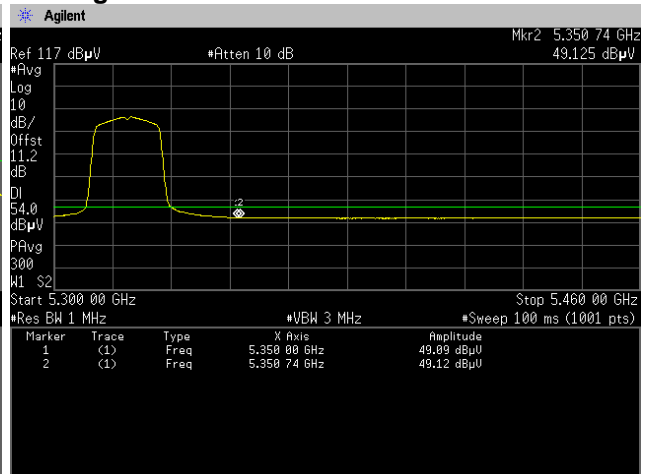


[IEEE802.11n (HT20)]

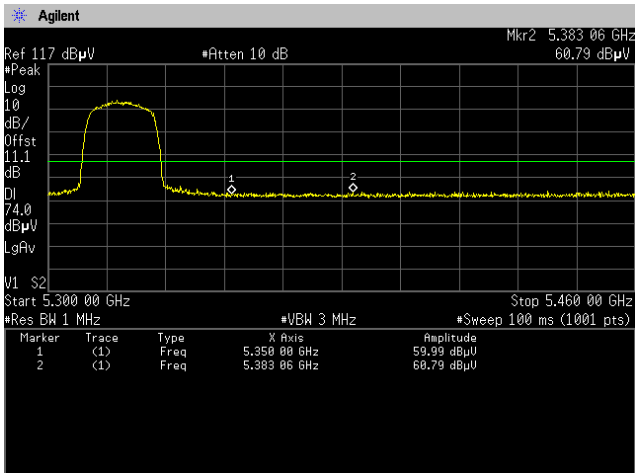
5.3 GHz Band, Channel High
Horizontal
Peak



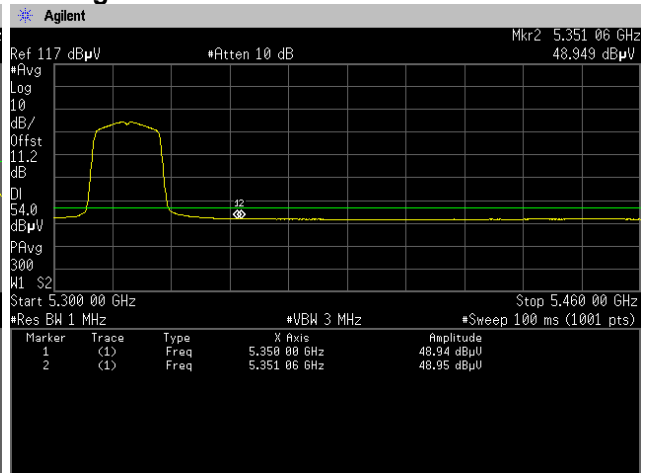
Average



Vertical
Peak



Average

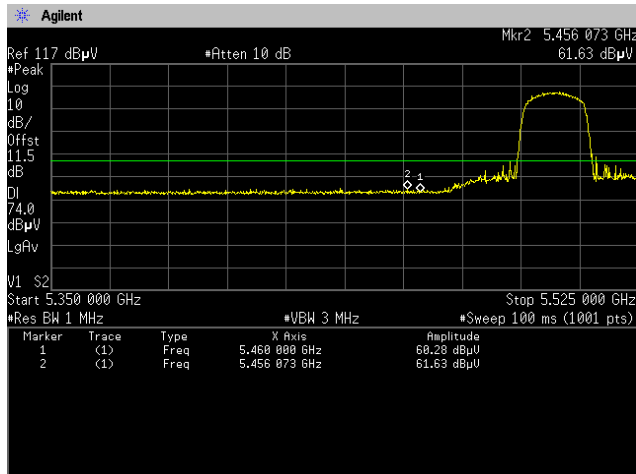




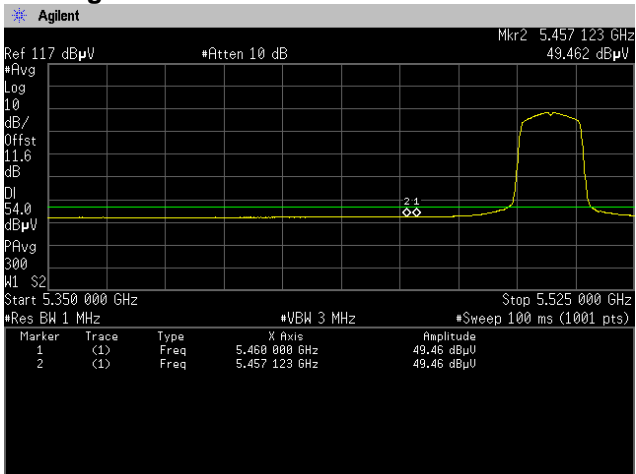
[IEEE802.11n (HT20)]

5.6 GHz Band, Channel Low
Horizontal

Peak

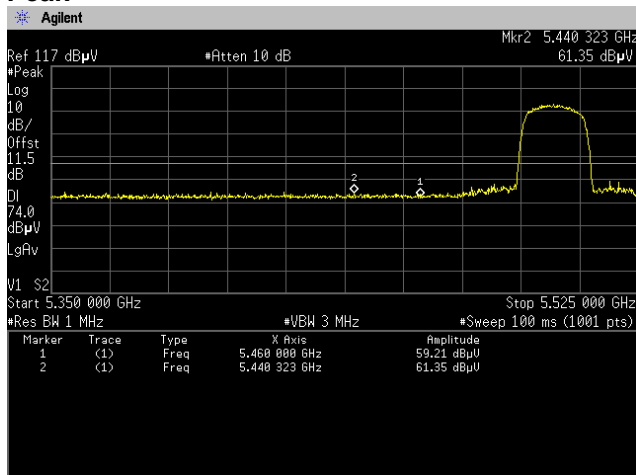


Average

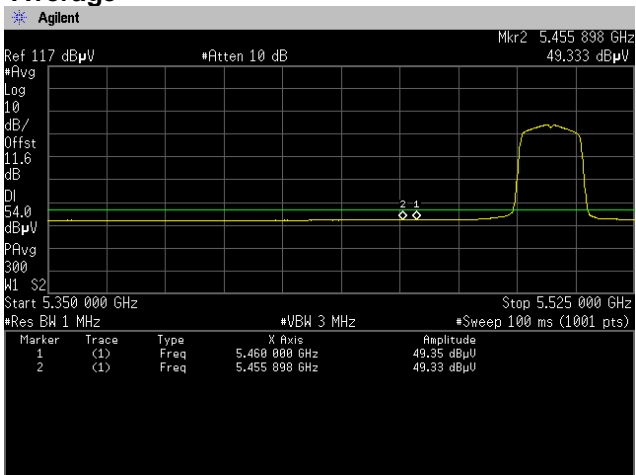


Vertical

Peak



Average

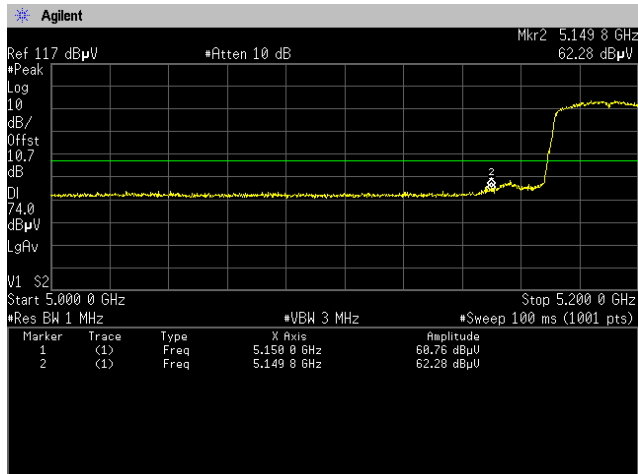




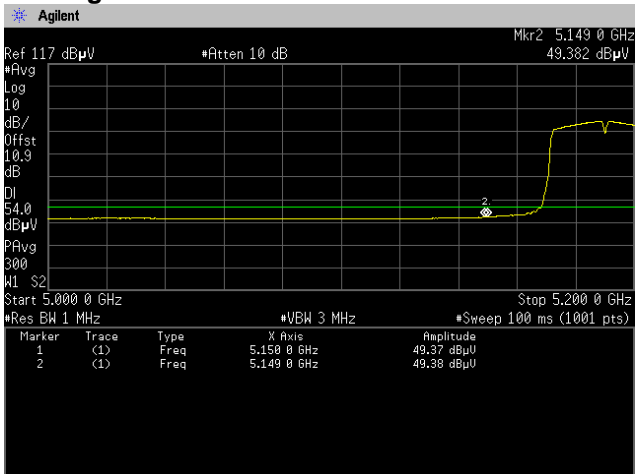
[IEEE802.11n (HT40)]

5.2 GHz Band, Channel Low
Horizontal

Peak

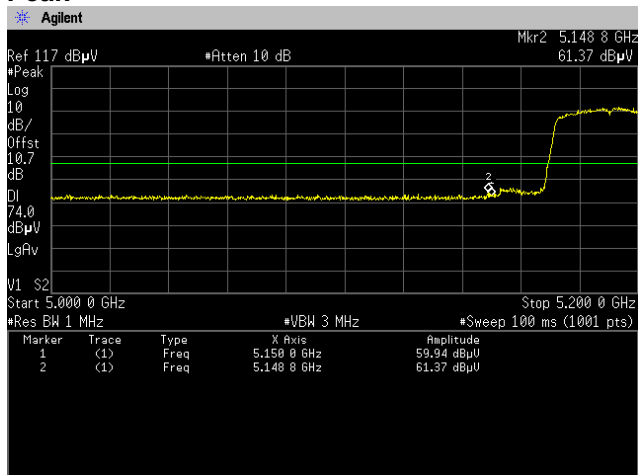


Average

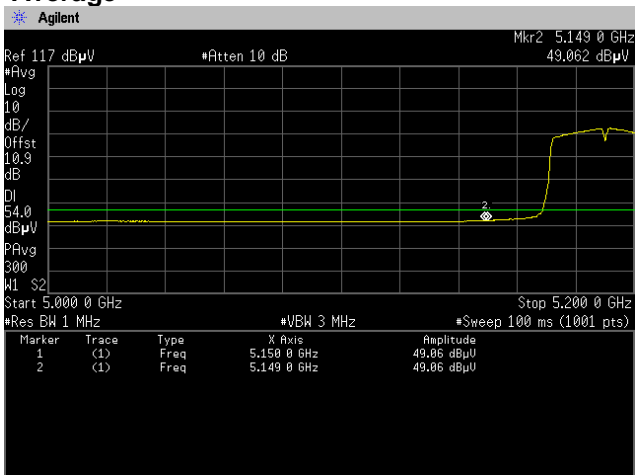


Vertical

Peak



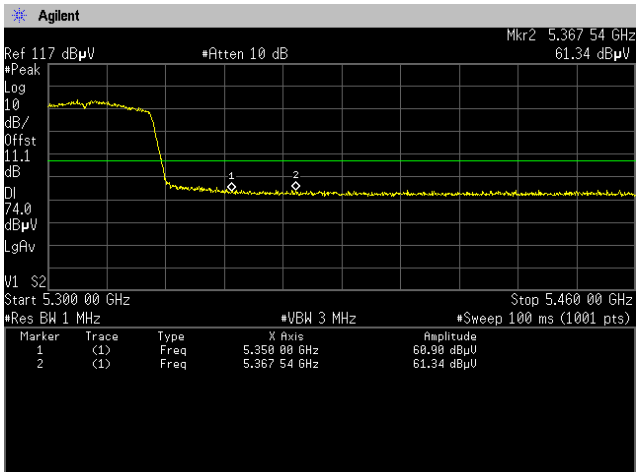
Average



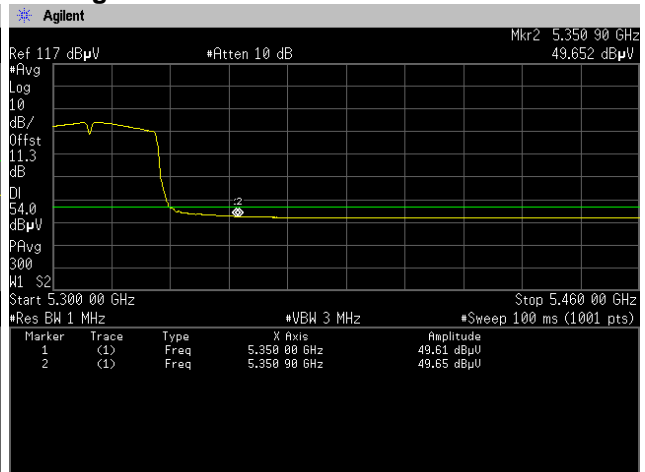


[IEEE802.11n (HT40)]

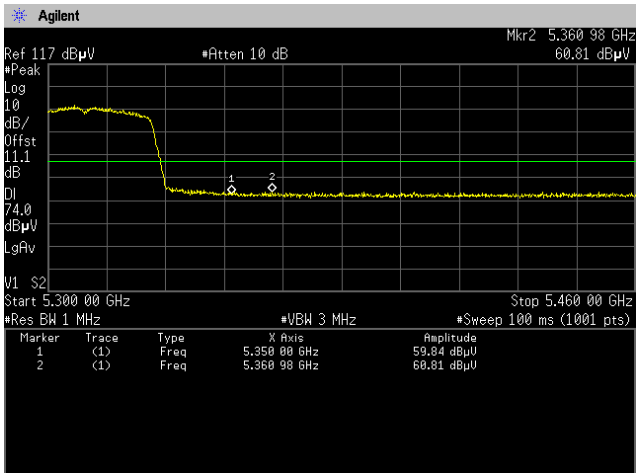
5.3 GHz Band, Channel High
Horizontal
Peak



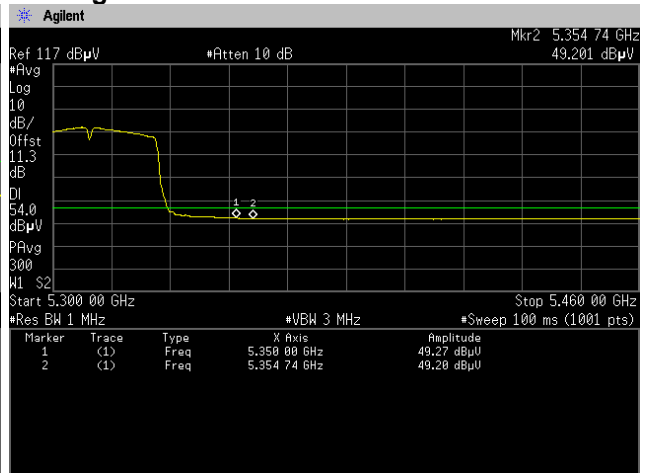
Average



Vertical
Peak



Average

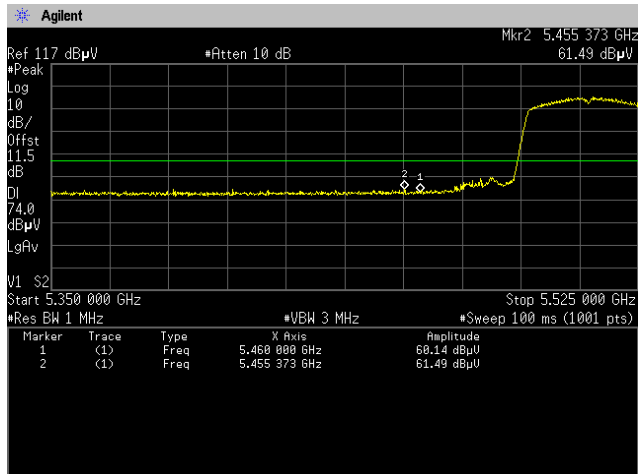




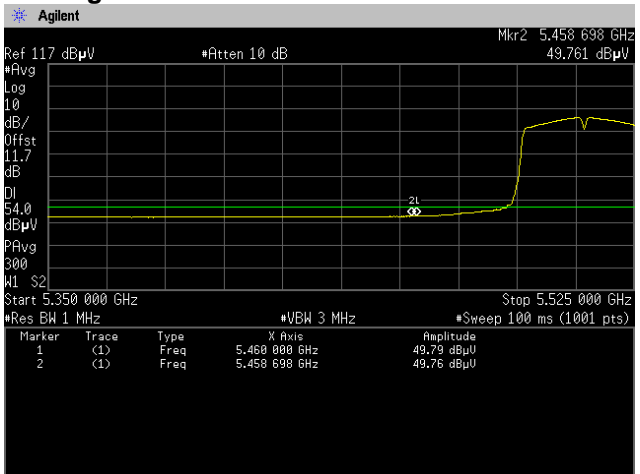
[IEEE802.11n (HT40)]

5.6 GHz Band, Channel Low
Horizontal

Peak

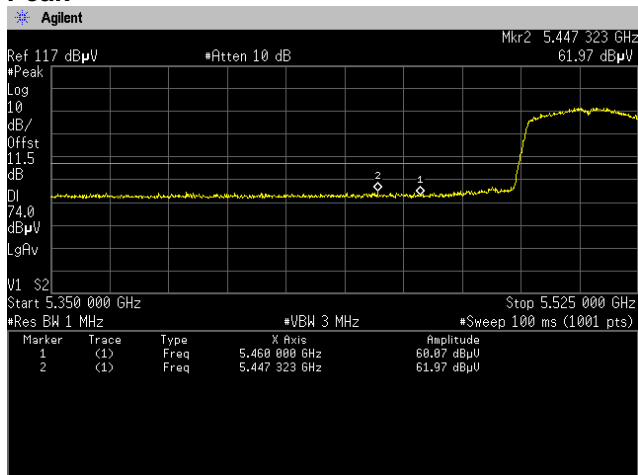


Average

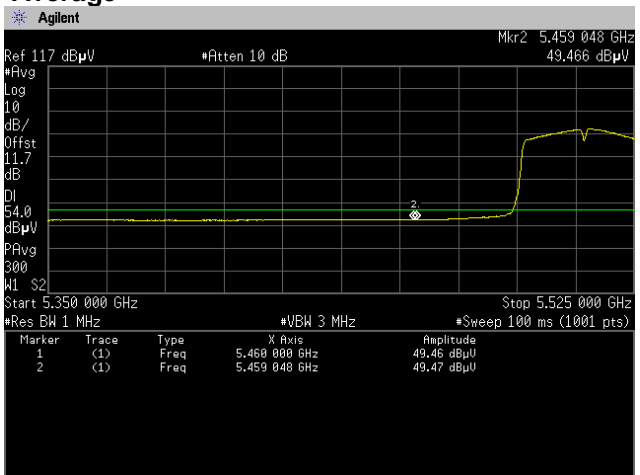


Vertical

Peak



Average

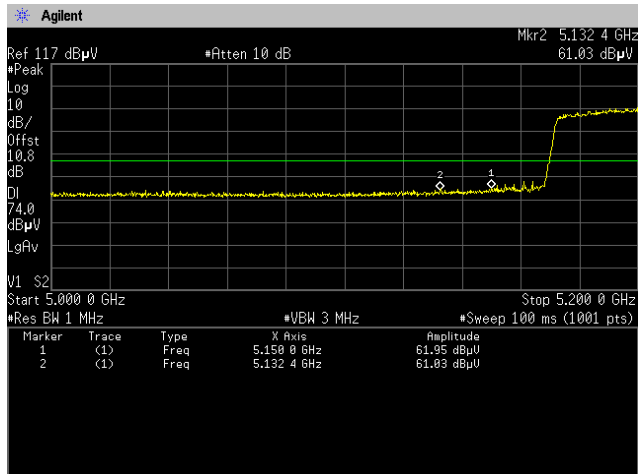




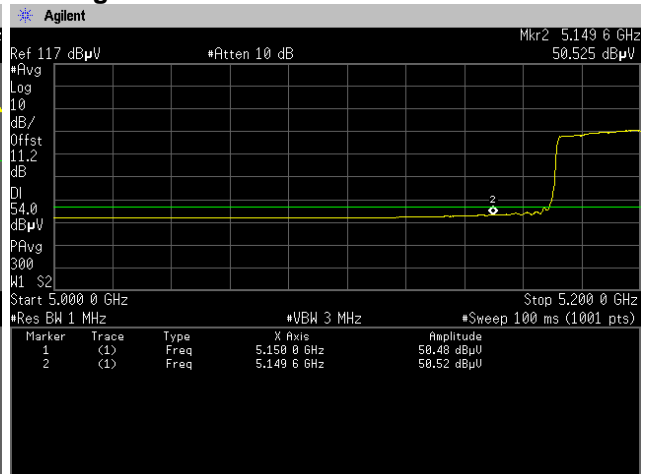
[IEEE802.11ac (VHT80)]

5.2 GHz Band, Channel Low
Horizontal

Peak

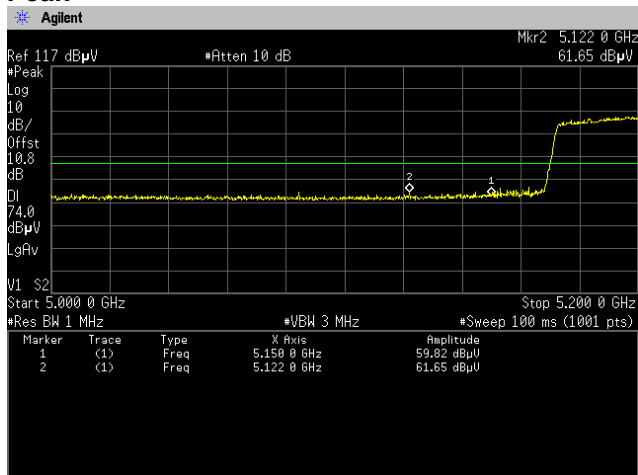


Average

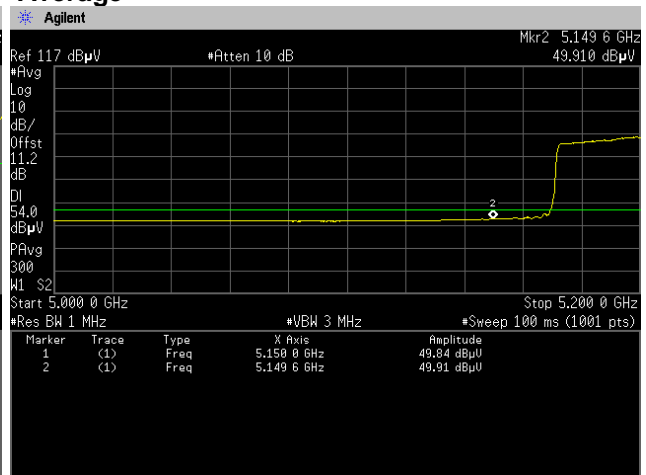


Vertical

Peak



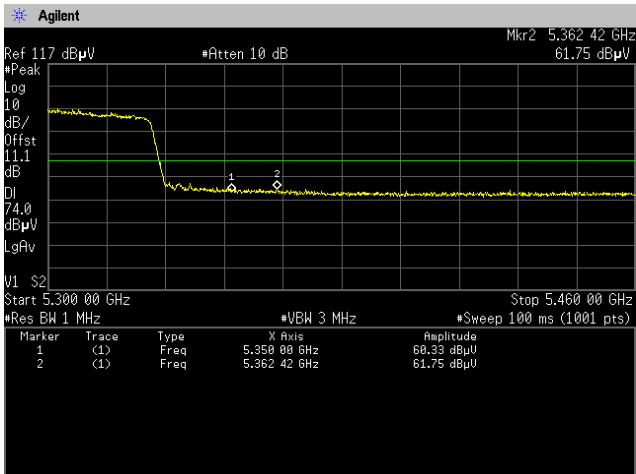
Average



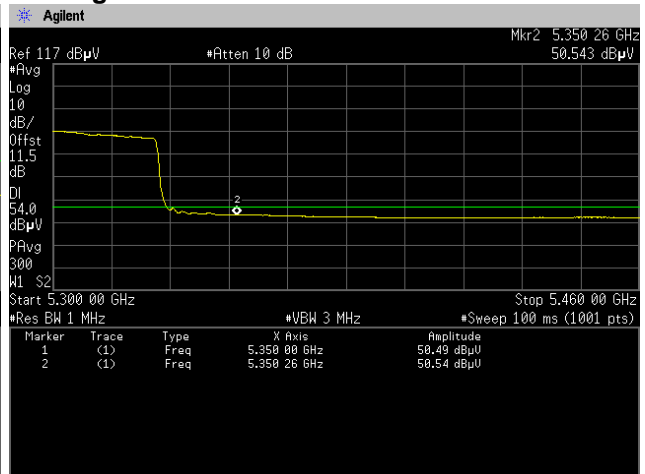


[IEEE802.11ac (VHT80)]

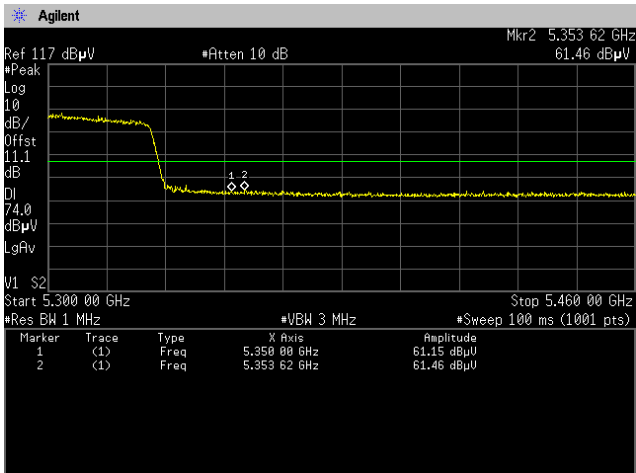
5.3 GHz Band, Channel High
Horizontal
Peak



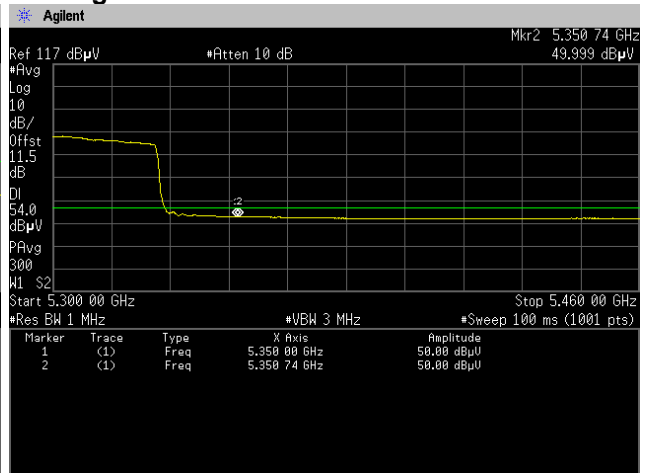
Average



Vertical
Peak



Average

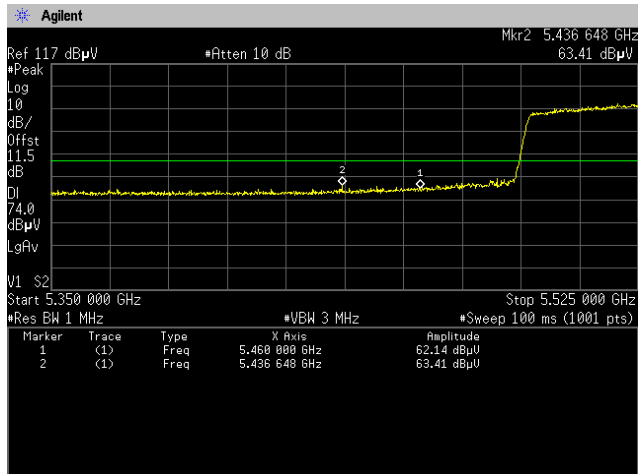




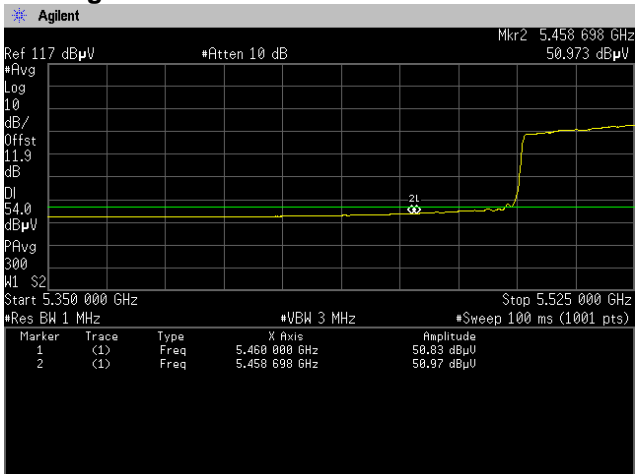
[IEEE802.11ac (VHT80)]

5.6 GHz Band, Channel Low
Horizontal

Peak

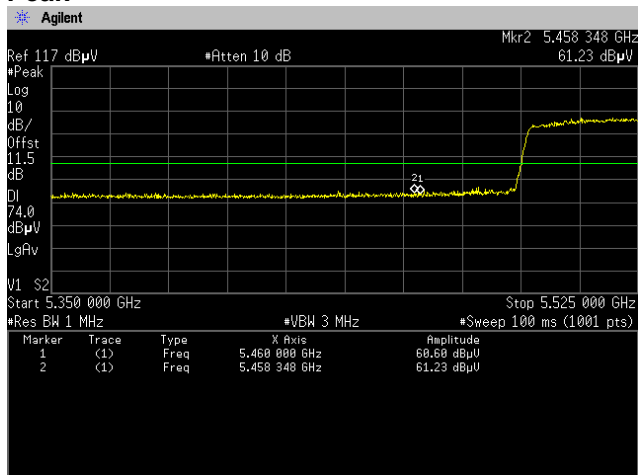


Average

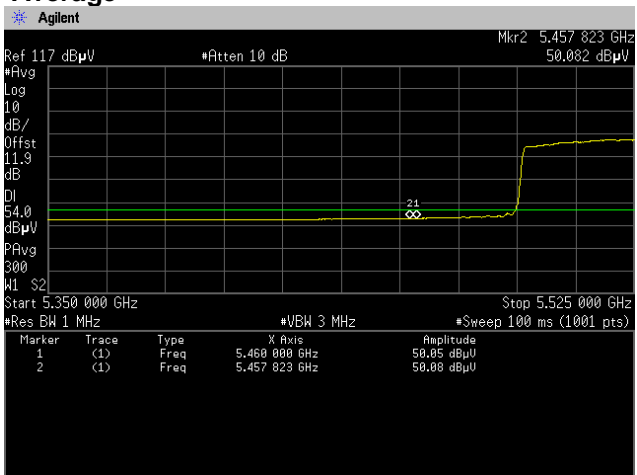


Vertical

Peak



Average





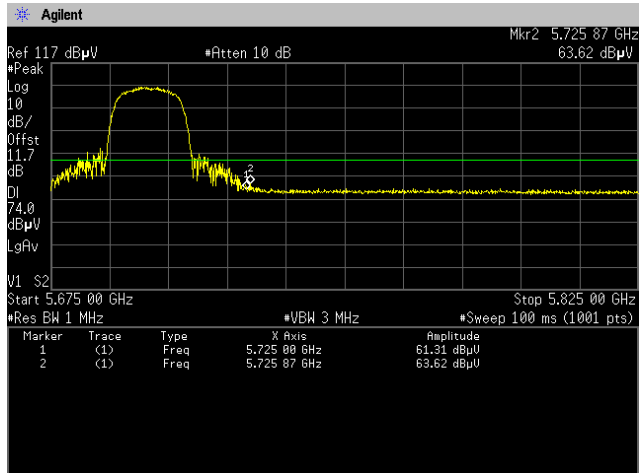
4.4.4.2 Non-Restricted Bandedge

[IEEE802.11a]

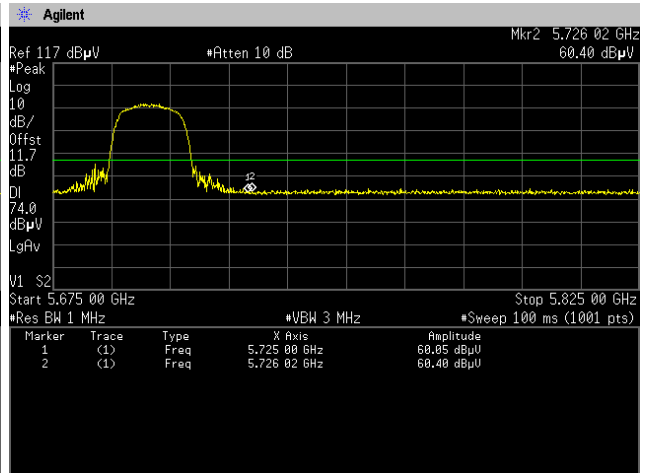
5.6 GHz Band, Channel High (140)

Peak

Horizontal



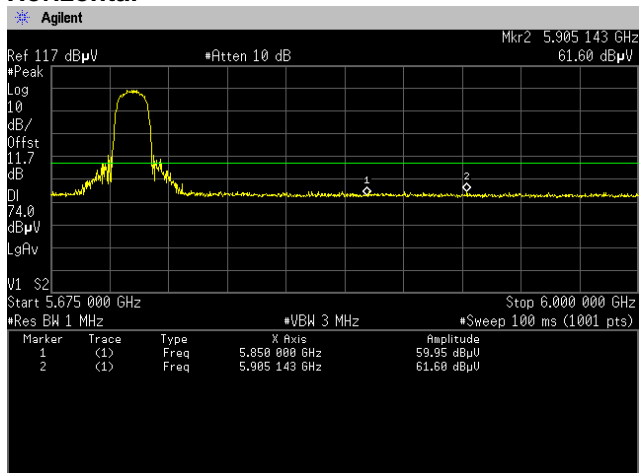
Vertical



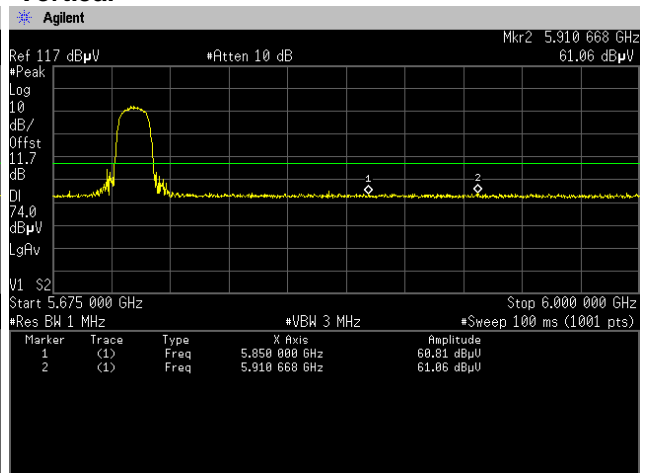
5.6 GHz Band, Channel High (144)

Peak

Horizontal



Vertical



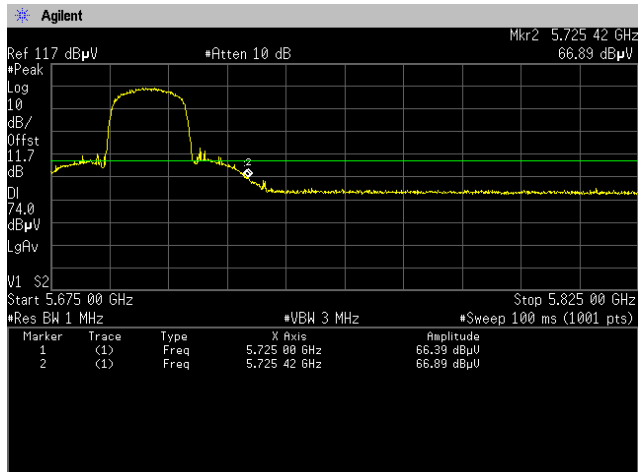


[IEEE802.11n (HT20)]

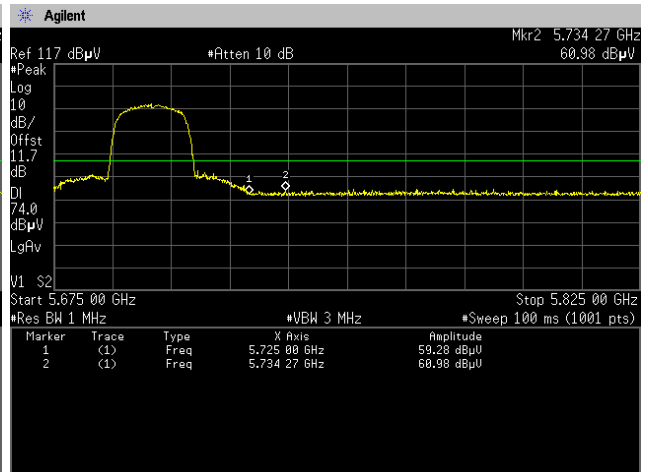
5.6 GHz Band, Channel High (140)

Peak

Horizontal



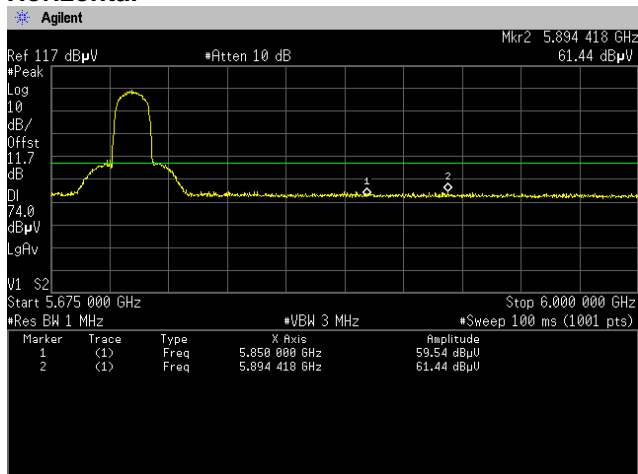
Vertical



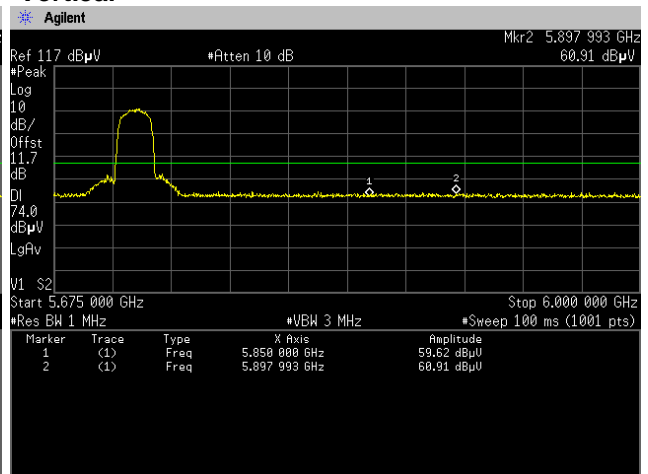
5.6 GHz Band, Channel High (144)

Peak

Horizontal



Vertical

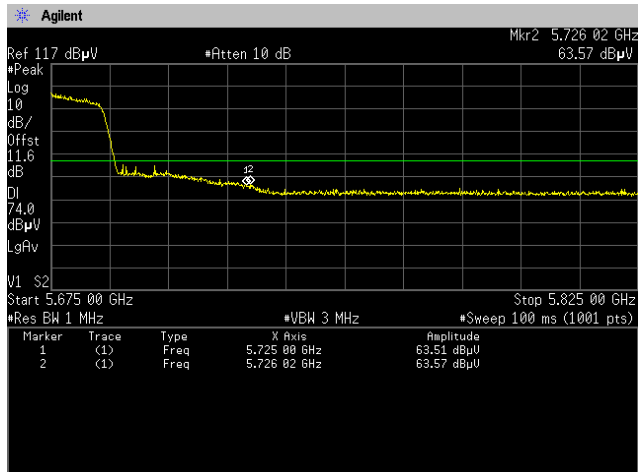


[IEEE802.11n (HT40)]

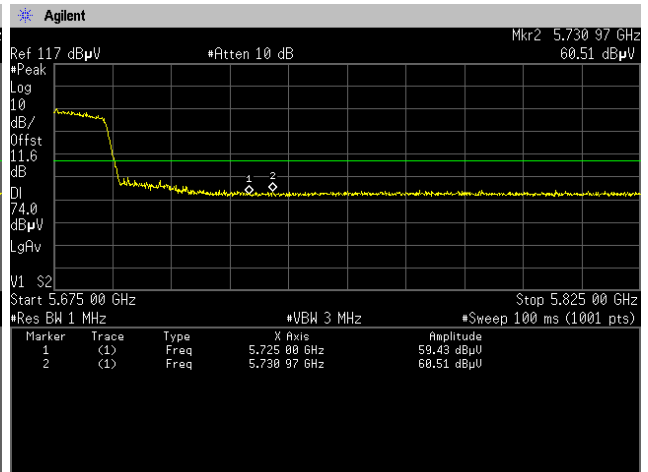
5.6GHz Band, Channel High (134)

Peak

Horizontal



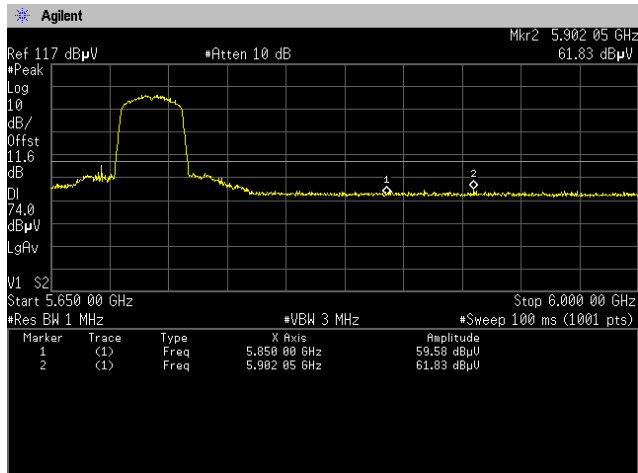
Vertical



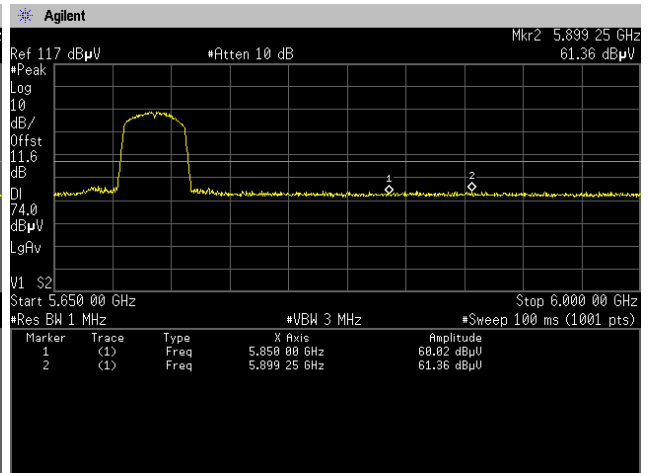
5.6GHz Band, Channel High (142)

Peak

Horizontal



Vertical



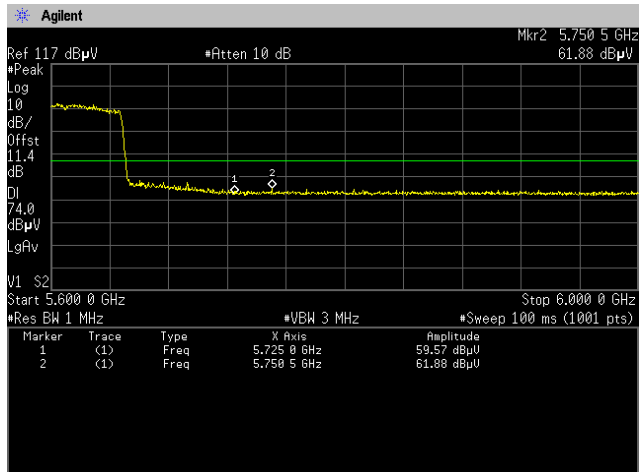


[IEEE802.11ac (VHT80)]

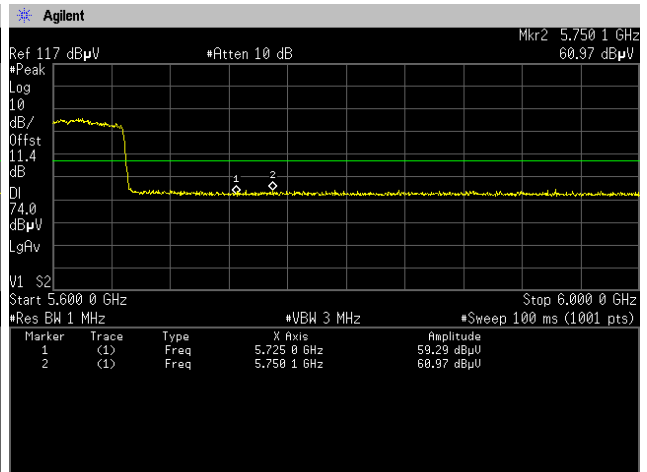
5.6 GHz Band, Channel High (122)

Peak

Horizontal



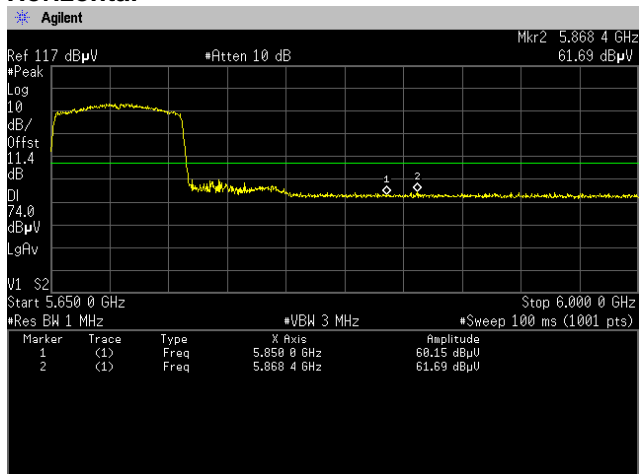
Vertical



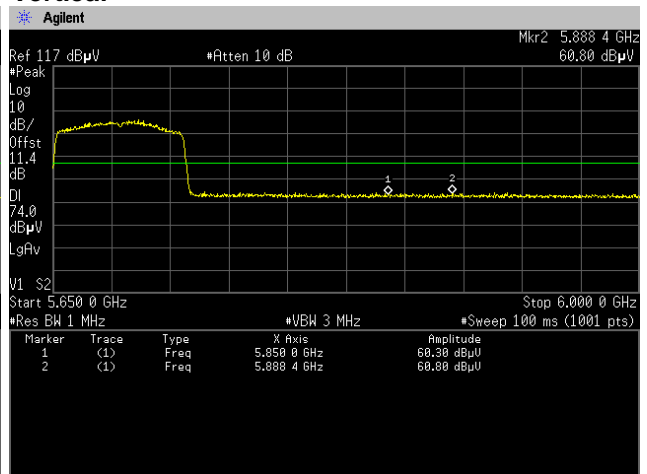
5.6 GHz Band, Channel High (138)

Peak

Horizontal



Vertical



4.4.4.3 Radiated Emissions

| | | | |
|-------------|----------------------------|---------------|------------------|
| Date | : 8-October-2022 | | |
| Temperature | : 22.2 [°C] | | |
| Humidity | : 36.7 [%] | Test engineer | : Chiaki Kanno |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 8-October-2022 | | |
| Temperature | : 23.5 [°C] | | |
| Humidity | : 33.2 [%] | Test engineer | : Tadahiro Seino |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 9-October-2022 | | |
| Temperature | : 23.0 [°C] | | |
| Humidity | : 36.2 [%] | Test engineer | : Tadahiro Seino |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 14-October-2022 | | |
| Temperature | : 23.7 [°C] | | |
| Humidity | : 38.6 [%] | Test engineer | : Tadahiro Seino |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 15-October-2022 | | |
| Temperature | : 21.2 [°C] | | |
| Humidity | : 47.5 [%] | Test engineer | : Kazunori Saito |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 12-October-2022 | | |
| Temperature | : 22.1 [°C] | | |
| Humidity | : 40.4 [%] | Test engineer | : Chiaki Kanno |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 17-October-2022 | | |
| Temperature | : 21.3 [°C] | | |
| Humidity | : 48.3 [%] | Test engineer | : Chiaki Kanno |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 7-November-2022 | | |
| Temperature | : 21.9 [°C] | | |
| Humidity | : 30.6 [%] | Test engineer | : Chiaki Kanno |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |
| Date | : 19-October-2022 | | |
| Temperature | : 23.5 [°C] | | |
| Humidity | : 32.5 [%] | Test engineer | : Tadahiro Seino |
| Test place | : 3m Semi-anechoic chamber | | |
| <hr/> | | | |



**[IEEE802.11a]
(5.2 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11a | 36 | 5180 | 10360.00 | H | PK | 46.2 | 11.1 | | 57.3 | 68.2 | 10.9 |
| | 40 | 5200 | 10400.00 | H | PK | 45.8 | 11.1 | | 56.9 | 68.2 | 11.3 |
| | 48 | 5240 | 10480.00 | H | PK | 46.3 | 11.2 | | 57.5 | 68.2 | 10.7 |

(5.3 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11a | 52 | 5260 | 10520.00 | H | PK | 46.3 | 11.2 | | 57.5 | 68.2 | 10.7 |
| | 56 | 5280 | 10560.00 | H | PK | 46.2 | 11.2 | | 57.4 | 68.2 | 10.8 |
| | | | 10640.00 | H | PK | 51.0 | 11.3 | | 62.3 | 74.0 | 11.7 |
| | 64 | 5320 | 10640.00 | H | AV | 33.3 | 11.3 | 0.111 | 44.7 | 54.0 | 9.3 |

(5.6 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11a | 100 | 5500 | 5463.80 | H | PK | 49.8 | 11.4 | | 61.2 | 68.2 | 7.0 |
| | | | 5462.30 | V | PK | 49.1 | 11.4 | | 60.5 | 68.2 | 7.7 |
| | | | 11000.00 | H | PK | 46.0 | 11.8 | | 57.8 | 74.0 | 16.2 |
| | 116 | 5580 | 11000.00 | H | AV | 33.4 | 11.8 | 0.128 | 45.3 | 54.0 | 8.7 |
| | | | 11160.00 | H | PK | 45.9 | 11.9 | | 57.8 | 74.0 | 16.2 |
| | 140 | 5700 | 11160.00 | H | AV | 34.1 | 11.9 | 0.128 | 46.1 | 54.0 | 7.9 |
| | | | 11400.00 | H | PK | 45.6 | 12.2 | | 57.8 | 74.0 | 16.2 |
| | 144 | 5720 | 11400.00 | H | AV | 33.9 | 12.2 | 0.128 | 46.2 | 54.0 | 7.8 |
| | | | 11440.00 | H | PK | 45.6 | 12.2 | | 57.8 | 74.0 | 16.2 |
| | | | 11440.00 | H | AV | 33.6 | 12.2 | 0.128 | 45.9 | 54.0 | 8.1 |

**[IEEE802.11n (HT20)]
(5.2 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (20MHz) | 36 | 5180 | 10360.00 | H | PK | 46.1 | 11.1 | | 57.2 | 68.2 | 11.0 |
| | 40 | 5200 | 10400.00 | H | PK | 46.0 | 11.1 | | 57.1 | 68.2 | 11.1 |
| | 48 | 5240 | 10480.00 | H | PK | 45.9 | 11.2 | | 57.1 | 68.2 | 11.1 |

Note:

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.



**[IEEE802.11n (HT20)]
(5.3 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (20MHz) | 52 | 5260 | 10520.00 | H | PK | 46.5 | 11.2 | | 57.7 | 68.2 | 10.5 |
| | 56 | 5280 | 10560.00 | H | PK | 46.0 | 11.2 | | 57.2 | 68.2 | 11.0 |
| | | | 10640.00 | H | PK | 46.5 | 11.3 | | 57.8 | 74.0 | 16.2 |
| | 64 | 5320 | 10640.00 | H | AV | 31.6 | 11.3 | 0.117 | 43.0 | 54.0 | 11.0 |

(5.6 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (20MHz) | 100 | 5500 | 5466.08 | H | PK | 50.4 | 11.4 | | 61.8 | 68.2 | 6.4 |
| | | | 5468.24 | V | PK | 48.4 | 11.4 | | 59.8 | 68.2 | 8.4 |
| | | | 11000.00 | H | PK | 46.4 | 11.8 | | 58.2 | 74.0 | 15.8 |
| | 116 | 5580 | 11000.00 | H | AV | 31.1 | 11.8 | 0.129 | 43.0 | 54.0 | 11.0 |
| | | | 11160.00 | H | PK | 46.4 | 11.9 | | 58.3 | 74.0 | 15.7 |
| | 140 | 5700 | 11160.00 | H | AV | 31.7 | 11.9 | 0.129 | 43.7 | 54.0 | 10.3 |
| | | | 11400.00 | H | PK | 46.5 | 12.2 | | 58.7 | 74.0 | 15.3 |
| | | | 11400.00 | H | AV | 31.3 | 12.2 | 0.129 | 43.6 | 54.0 | 10.4 |
| | 144 | 5720 | 11440.00 | H | PK | 46.0 | 12.2 | | 58.2 | 74.0 | 15.8 |
| | | | 11440.00 | H | AV | 31.5 | 12.2 | 0.129 | 43.8 | 54.0 | 10.2 |

**[IEEE802.11n (HT40)]
(5.2 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (40MHz) | 38 | 5190 | 10380.00 | H | PK | 46.2 | 11.1 | | 57.3 | 68.2 | 10.9 |
| | 46 | 5230 | 10460.00 | H | PK | 45.2 | 11.2 | | 56.4 | 68.2 | 11.8 |

(5.3 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (40MHz) | 54 | 5270 | 10540.00 | H | PK | 45.7 | 11.2 | | 56.9 | 68.2 | 11.3 |
| | 62 | 5310 | 10620.00 | H | PK | 45.7 | 11.3 | | 57.0 | 74.0 | 17.0 |
| | | | 10620.00 | H | AV | 34.3 | 11.3 | 0.239 | 45.8 | 54.0 | 8.2 |

Note:

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.



**[IEEE802.11n (HT40)]
(5.6 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11n (40MHz) | 102 | 5510 | 5462.60 | H | PK | 50.2 | 11.4 | / | 61.6 | 68.2 | 6.6 |
| | | | 5467.20 | V | PK | 50.0 | 11.4 | | 61.4 | 68.2 | 6.8 |
| | | | 11020.00 | H | PK | 45.8 | 11.8 | | 57.6 | 74.0 | 16.4 |
| | | | 11020.00 | H | AV | 34.0 | 11.8 | | 0.232 | 46.0 | 54.0 |
| | 110 | 5550 | 11100.00 | H | PK | 45.9 | 11.9 | / | 57.8 | 74.0 | 16.2 |
| | | | 11100.00 | H | AV | 35.4 | 11.9 | | 0.232 | 47.5 | 54.0 |
| | 134 | 5670 | 11340.00 | H | PK | 45.8 | 12.2 | / | 58.0 | 74.0 | 16.0 |
| | | | 11340.00 | H | AV | 34.3 | 12.2 | | 0.232 | 46.7 | 54.0 |
| | 142 | 5710 | 11420.00 | H | PK | 45.4 | 12.2 | / | 57.6 | 74.0 | 16.4 |
| | | | 11420.00 | H | AV | 33.8 | 12.2 | | 0.232 | 46.2 | 54.0 |

**[IEEE802.11ac (VHT80)]
(5.2 GHz Band)**

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|------------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11ac (80MHz) | 42 | 5210 | 10420.00 | H | PK | 45.3 | 11.3 | / | 56.6 | 68.2 | 11.6 |

(5.3 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|------------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11ac (80MHz) | 58 | 5290 | 10580.00 | H | PK | 45.5 | 11.2 | / | 56.7 | 68.2 | 11.5 |

(5.6 GHz Band)

| Mode | Channel | Frequency (MHz) | Frequency (MHz) | ANT H/V | Detector PK/AV | Reading (dBμV) | C.F (dB) | DCF (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|------------------|---------|-----------------|-----------------|---------|----------------|----------------|----------|----------|-----------------|----------------|-------------|
| 802.11ac (80MHz) | 106 | 5530 | 5467.20 | H | PK | 53.2 | 11.4 | / | 64.6 | 68.2 | 3.6 |
| | | | 5463.80 | V | PK | 51.0 | 11.4 | | 62.4 | 68.2 | 5.8 |
| | | | 11060.00 | H | PK | 45.2 | 11.9 | | 57.1 | 74.0 | 16.9 |
| | | | 11060.00 | H | AV | 34.0 | 11.9 | | 0.445 | 46.3 | 54.0 |
| | 122 | 5610 | 11220.00 | H | PK | 45.5 | 12.0 | / | 57.5 | 74.0 | 16.5 |
| | | | 11220.00 | H | AV | 33.9 | 12.0 | | 0.445 | 46.3 | 54.0 |
| | 138 | 5690 | 11380.00 | H | PK | 45.3 | 12.2 | / | 57.5 | 74.0 | 16.5 |
| | | | 11380.00 | H | AV | 34.0 | 12.2 | | 0.445 | 46.6 | 54.0 |

Note:

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.



4.4.4.4 Measurement chart

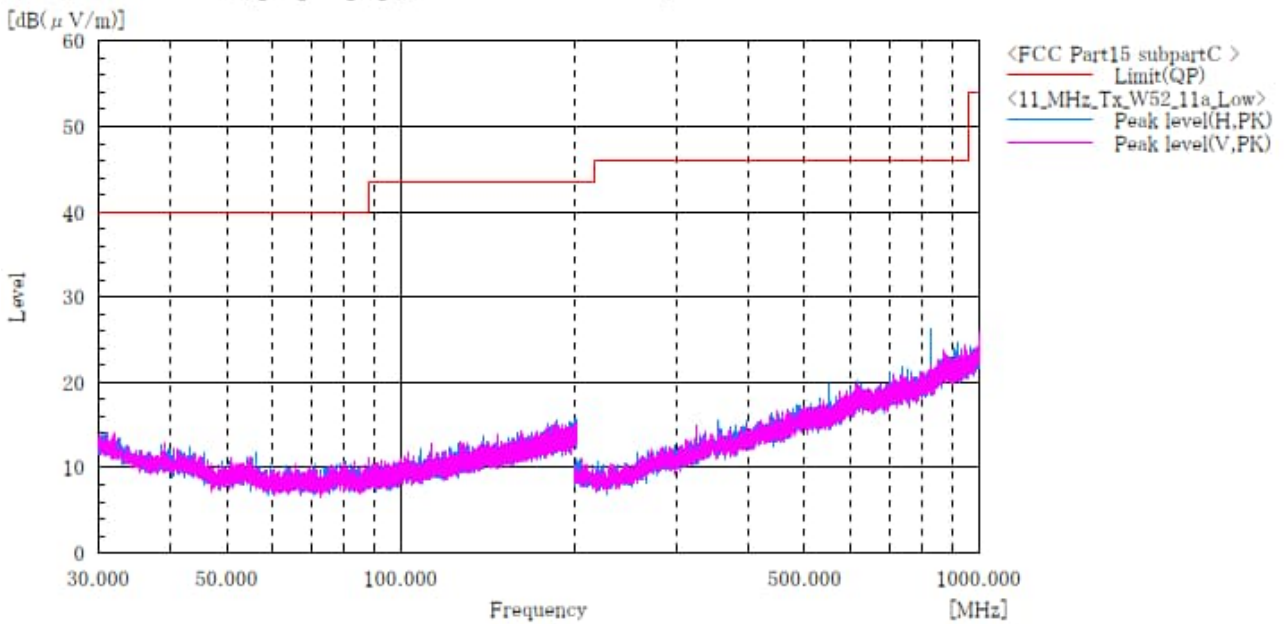
Transmission mode

[11a]

5.2 GHz Band / Channel Low
BELOW 1GHz

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_11a_W52_Tx_ch:Low

Standard : FCC Part.15 subpart E
 Operator : T.Seino
 Temp,Hum : 23.7[°C] 38.6[%]
 Note1 : CH:36 5180MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

Note:

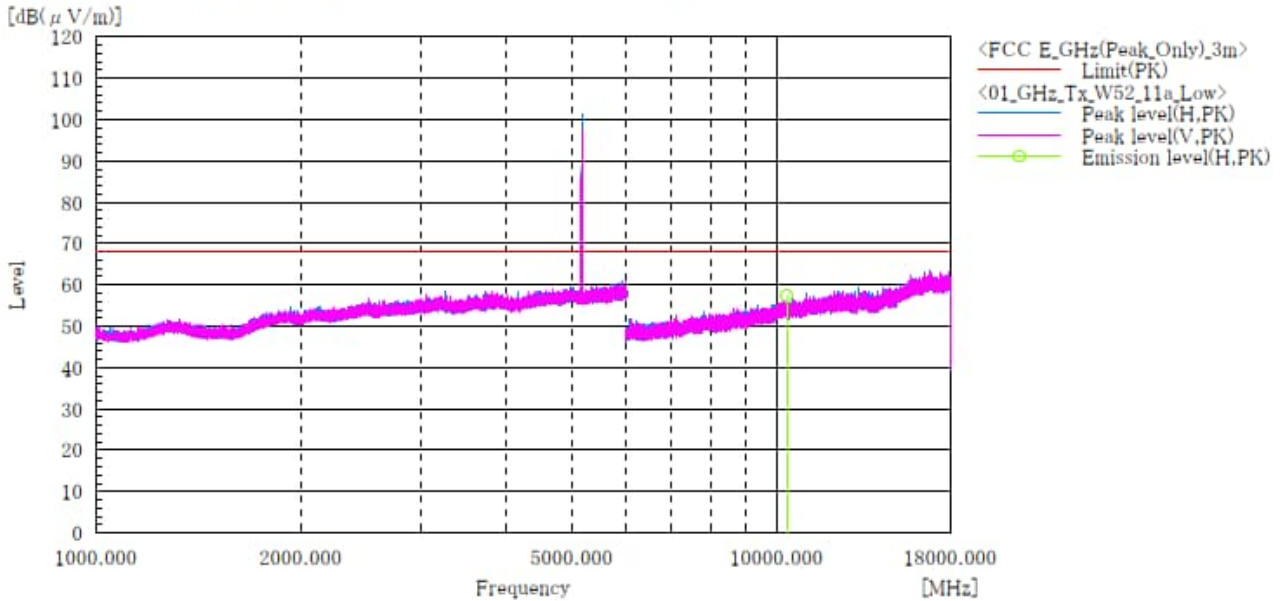
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.2 GHz Band / Channel Low
ABOVE 1GHz

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W52_11a_Tx_Low

Standard : FCC Part.15 subpart C
 Operator : T.Sejno
 Temp,Hum,Atm : 23.5[°C] 33.2[%]
 Note1 : ch:36_5180MHz
 Note2 :



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 10360.000 | H | 46.2 | 11.1 | 57.3 | 68.2 | 10.9 | 100.0 | 119.0 | |

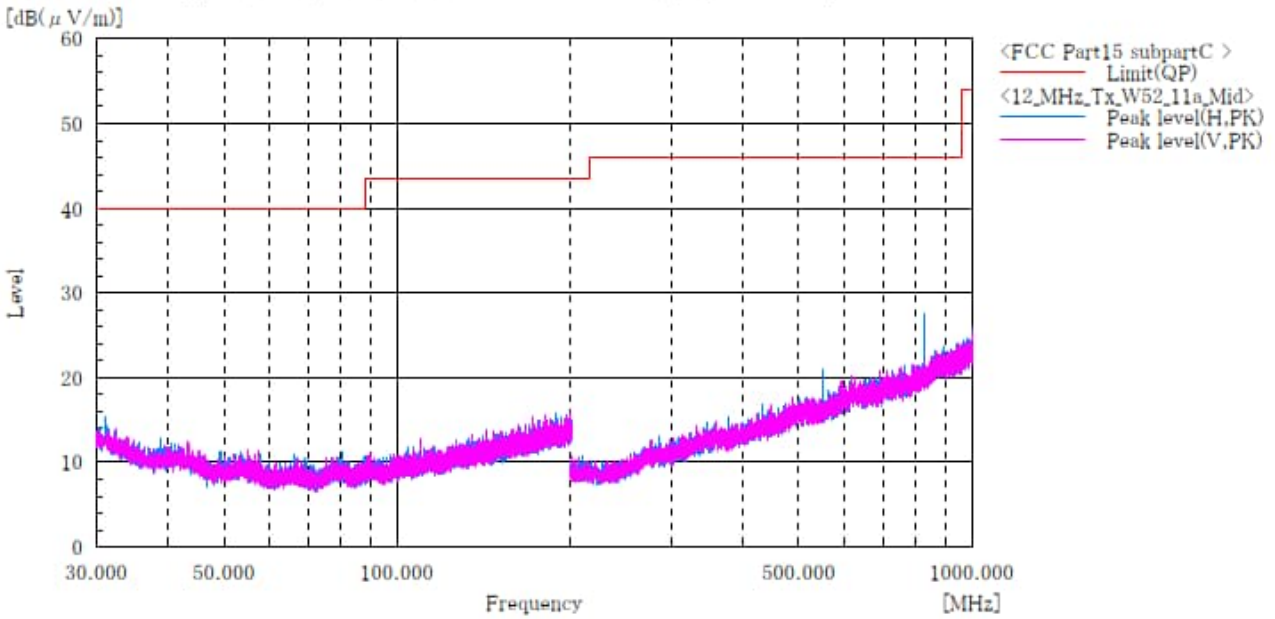
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.2 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:40 5200MHz |
| Test mode | : WLAN_11a_W52_Tx_ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

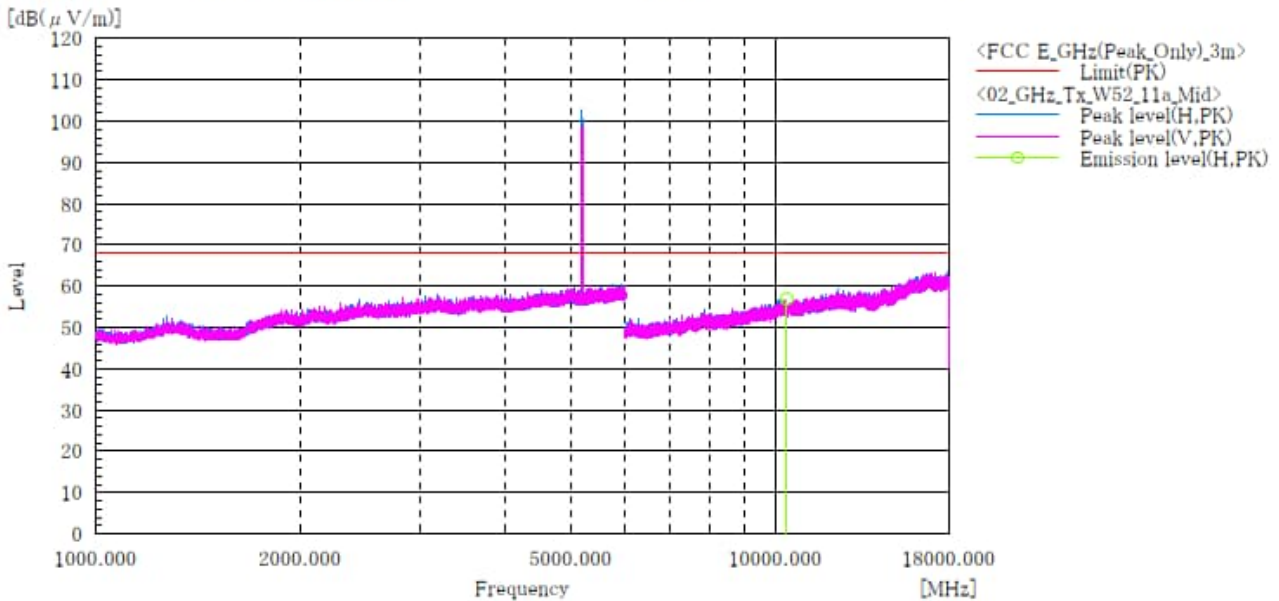
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.2 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.5[°C] 33.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:40_5200MHz |
| Test mode | : WLAN_W52_11a_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 10400.000 | H | 45.8 | 11.1 | 56.9 | 68.2 | 11.3 | 100.0 | 115.0 | |

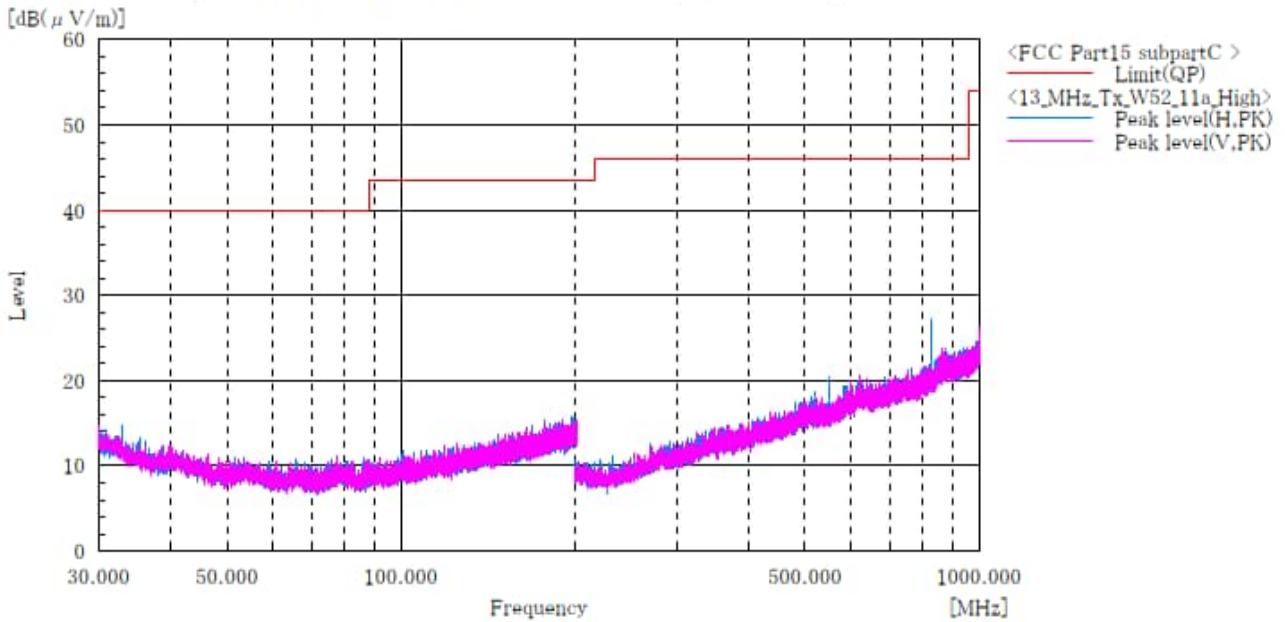
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.2 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:48 5240MHz |
| Test mode | : WLAN_11a_W52_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

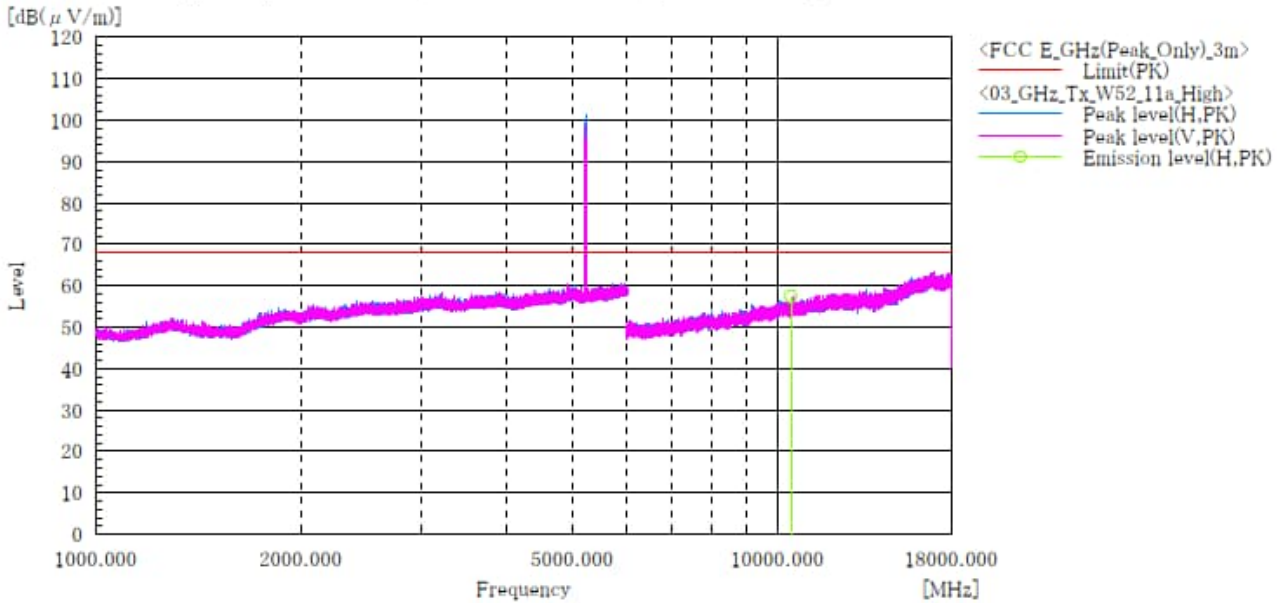
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.2 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Sejino |
| Model No. | : EB1146 | Temp.Hum.Atm | : 23.5[°C] 33.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:48_5240MHz |
| Test mode | : WLAN_W52_11a_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 10480.000 | H | 46.3 | 11.2 | 57.5 | 68.2 | 10.7 | 100.0 | 116.0 | |

*

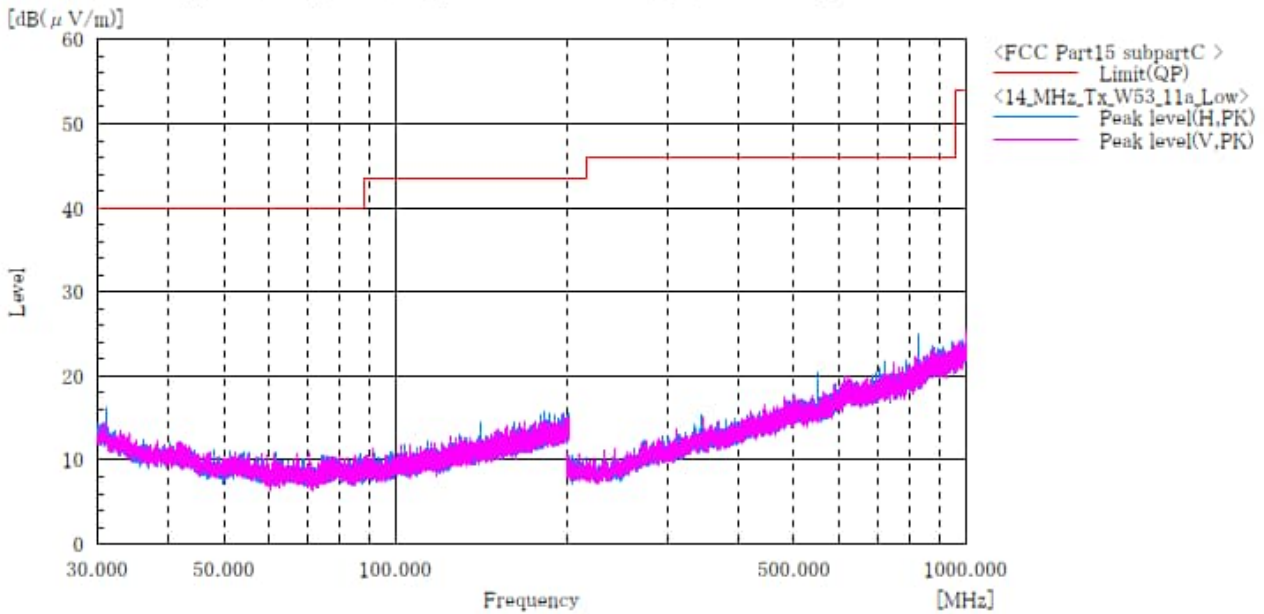
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:52 5260MHz |
| Test mode | : WLAN_11a_W53_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

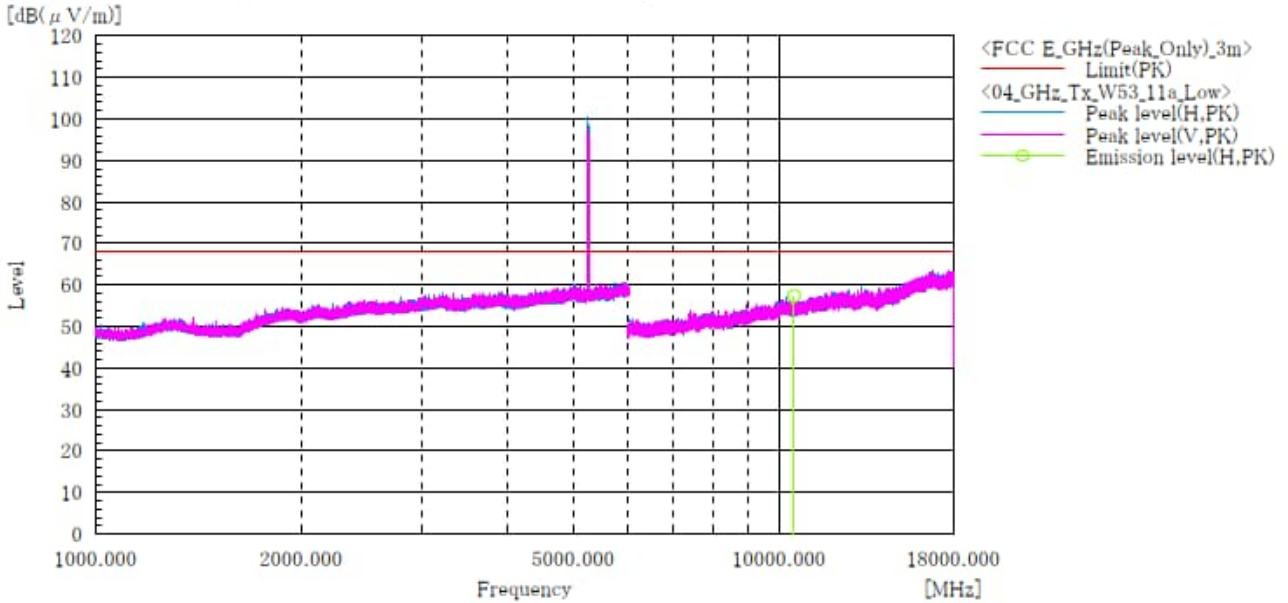
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------|---------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum.Attn | : 23.5[°C] 33.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:52_5260MHz |
| Test mode | : WLAN_W53_11a_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 10520.000 | H | 46.3 | 11.2 | 57.5 | 68.2 | 10.7 | 134.0 | 120.0 | |

Note:

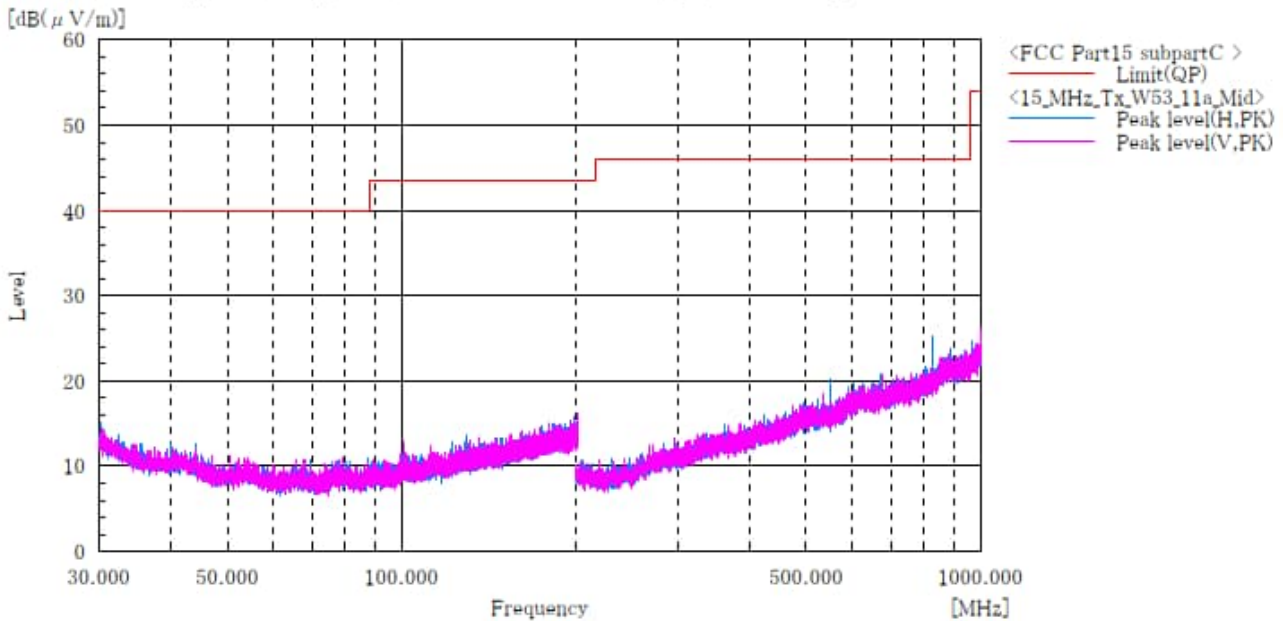
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel Middle
BELOW 1GHz

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_11a_W53_Tx_ch:Mid

Standard : FCC Part.15 subpart E
 Operator : T.Seino
 Temp,Hum : 23.7[°C] 38.6[%]
 Note1 : CH:56 5280MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

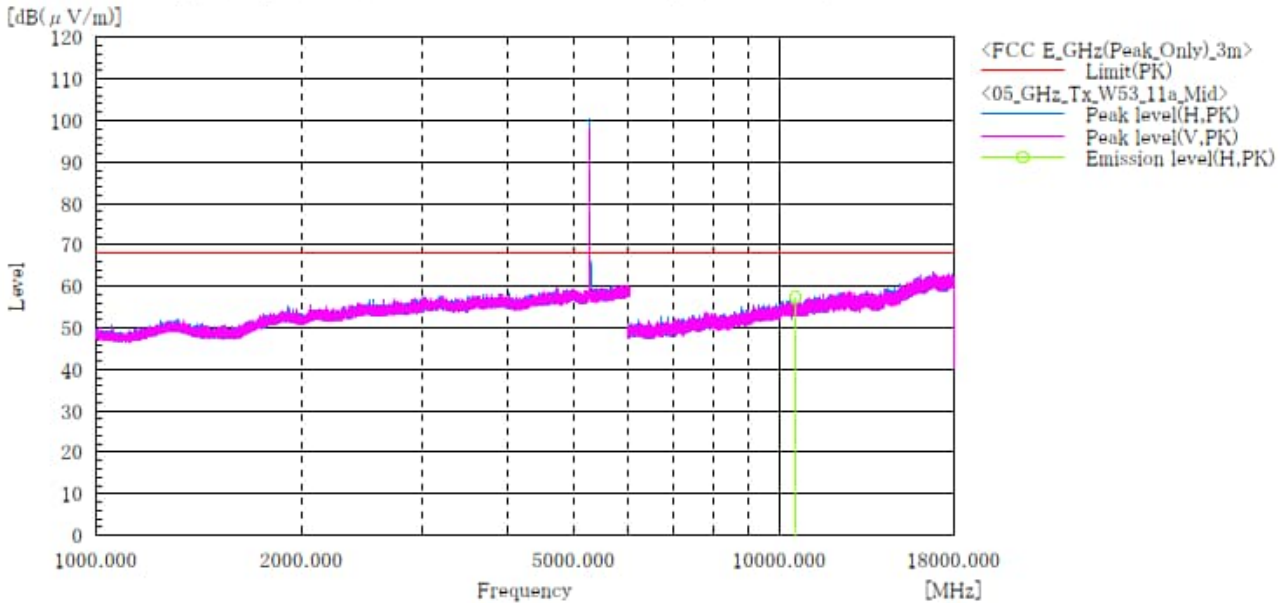
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.5[°C] 33.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:56_5280MHz |
| Test mode | : WLAN_W53_11a_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 10560.000 | H | 46.2 | 11.2 | 57.4 | 68.2 | 10.8 | 126.0 | 116.0 | |

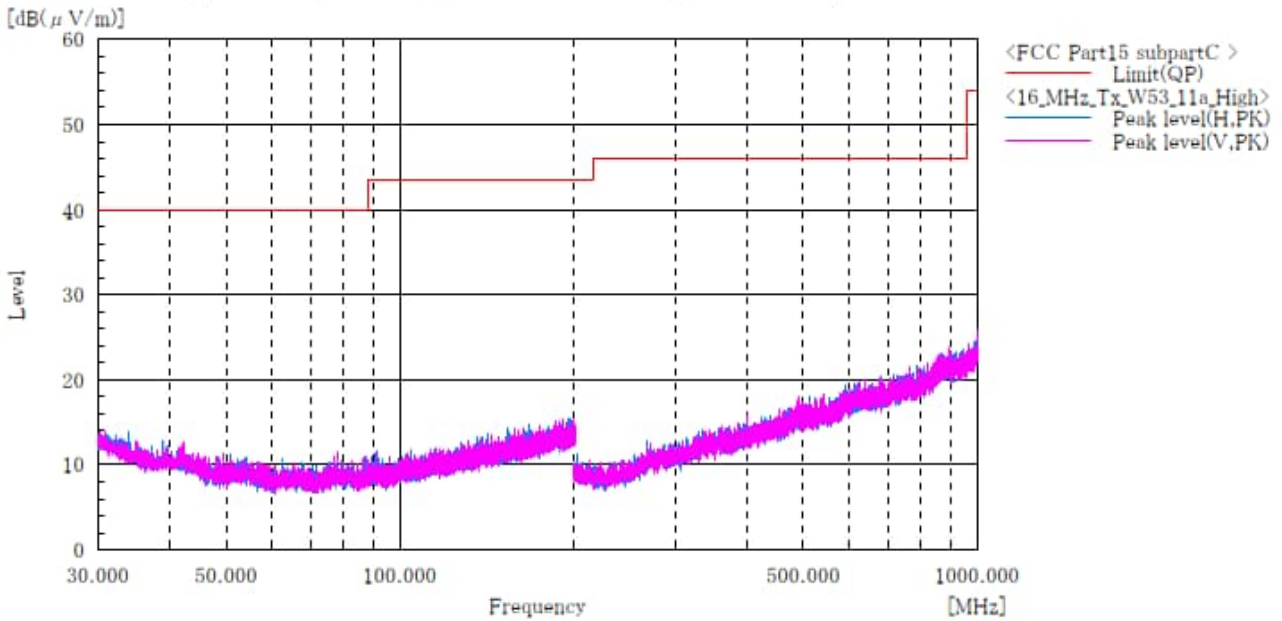
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:64 5320MHz |
| Test mode | : WLAN_11a_W53_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

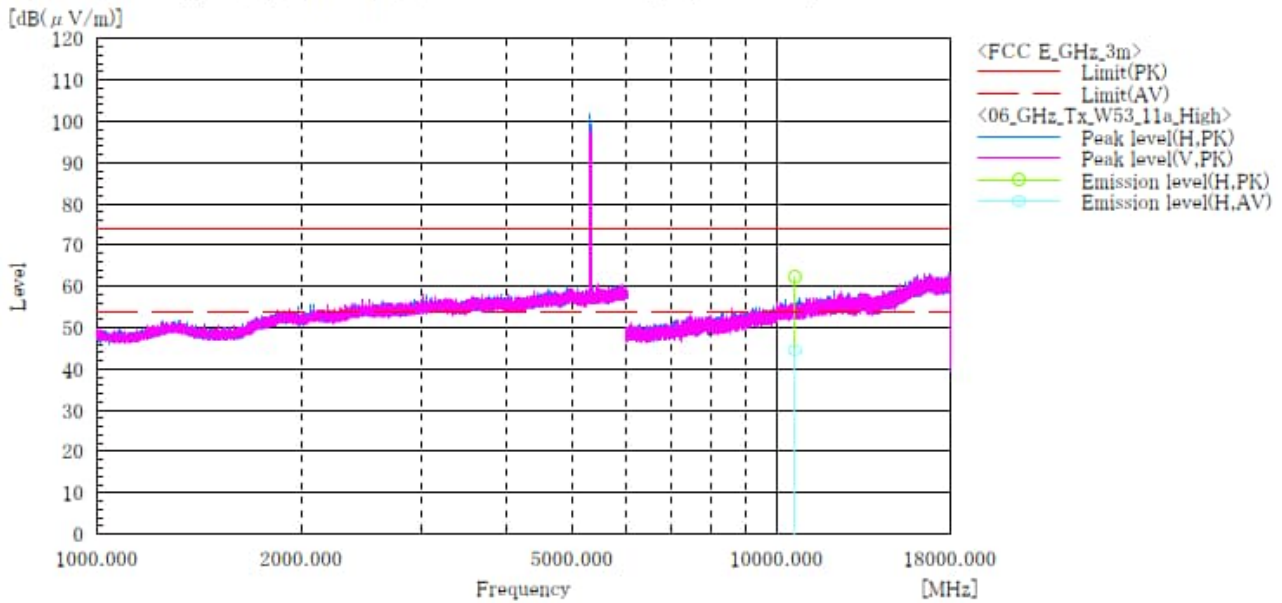
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.3 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart C |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.2[°C] 36.7[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:64_5320MHz |
| Test mode | : WLAN_W53_11a_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 10640.000 | H | 51.0 | 33.3 | 11.3 | 62.3 | 44.6 | 74.0 | 54.0 | 11.7 | 9.4 | 100.0 | 132.0 |

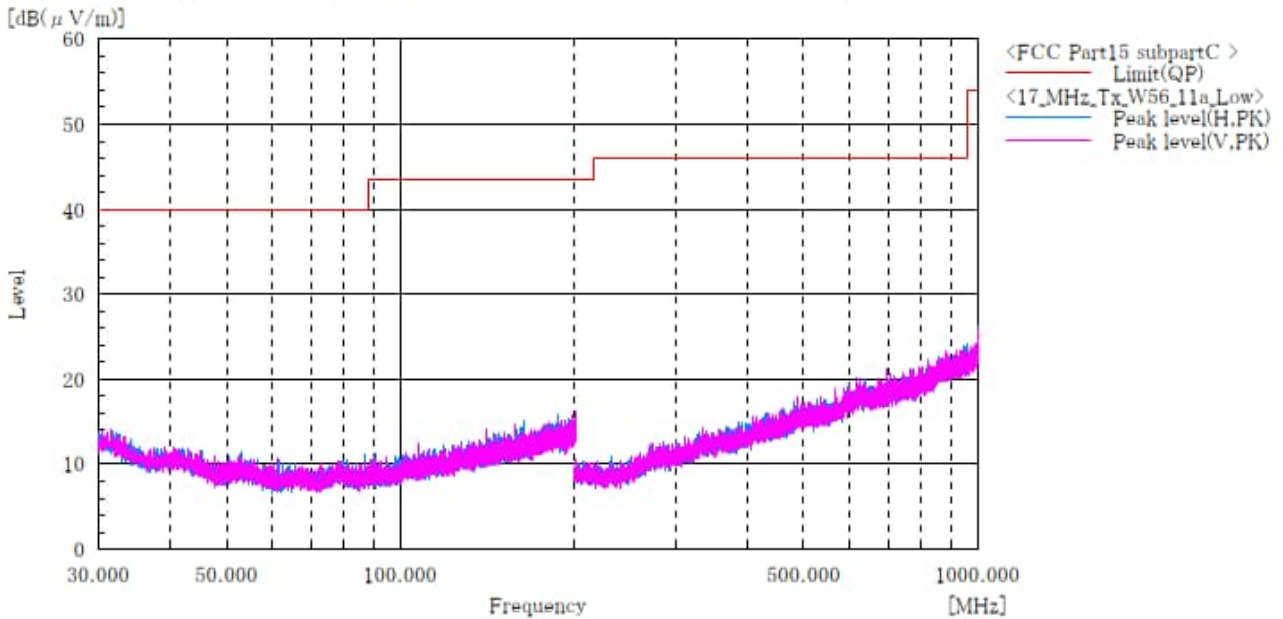
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:100 5500MHz |
| Test mode | : WLAN_11a_W56_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c. f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

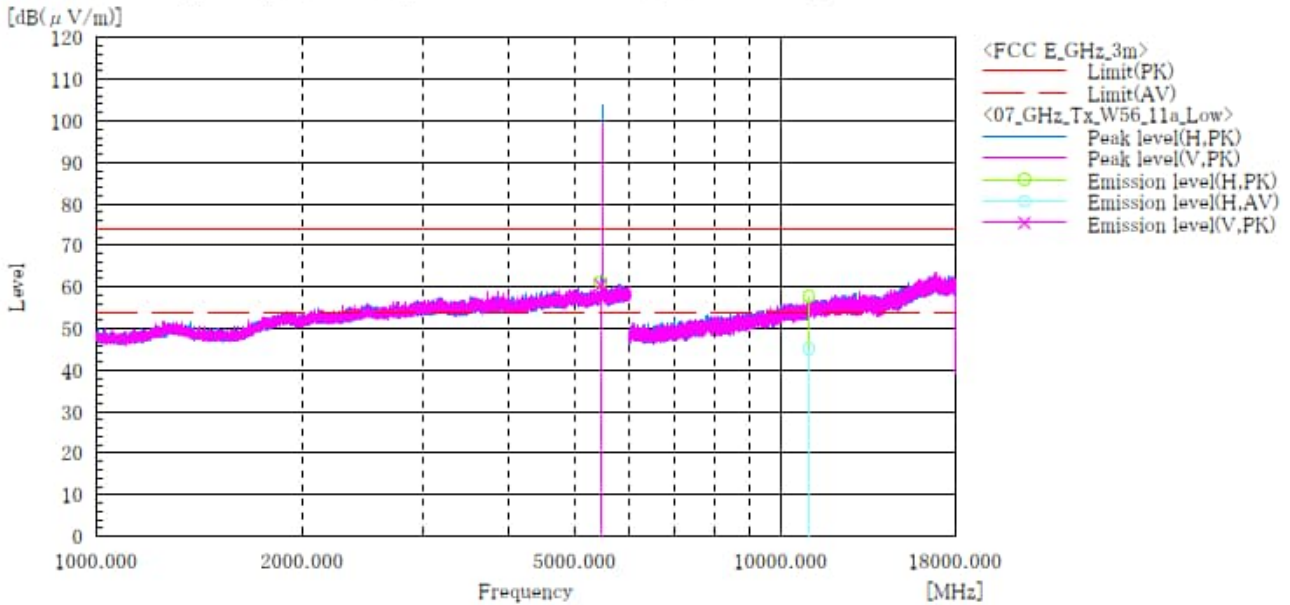
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.2[°C] 36.7[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:100_5500MHz |
| Test mode | : WLAN_W56_11a_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|----------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 5463.800 | H | 49.8 | — | 11.4 | 61.2 | — | 68.2 | 54.0 | 7.0 | — | 100.0 | 188.0 |
| 2 | 5462.300 | V | 49.1 | — | 11.4 | 60.5 | — | 68.2 | 54.0 | 7.7 | — | 123.0 | 162.0 |
| 3 | 11000.000 | H | 46.0 | 33.4 | 11.8 | 57.8 | 45.2 | 74.0 | 54.0 | 16.2 | 8.8 | 100.0 | 228.0 |

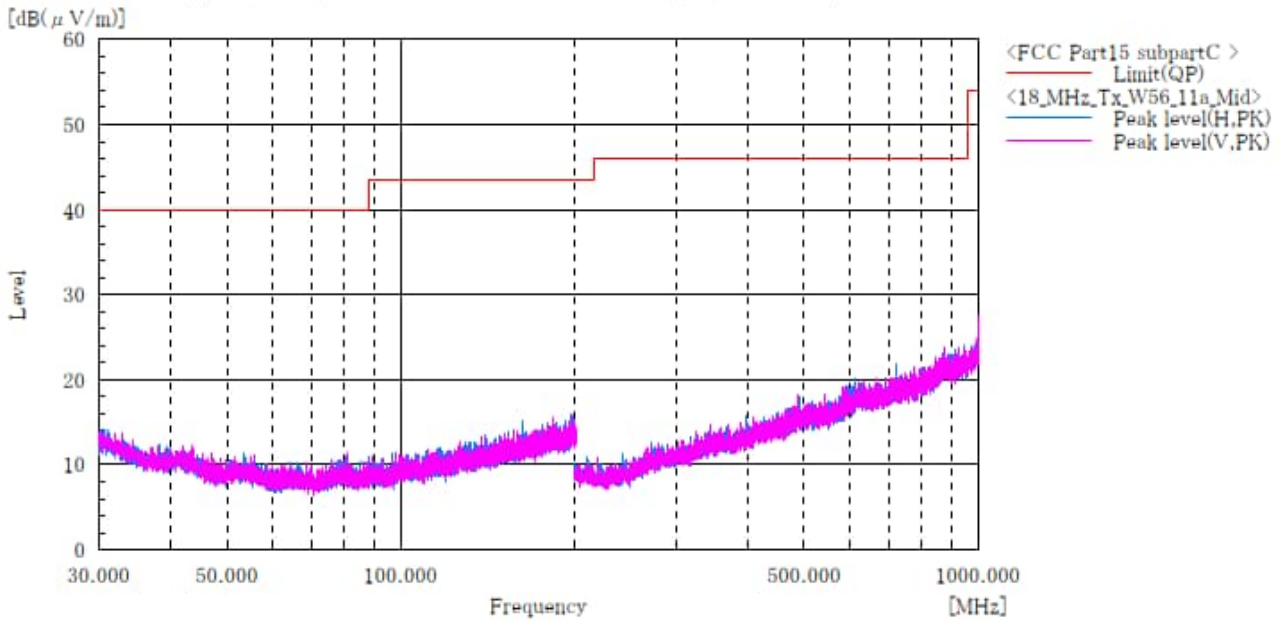
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:116 5580MHz |
| Test mode | : WLAN_11a_W56_Tx_ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

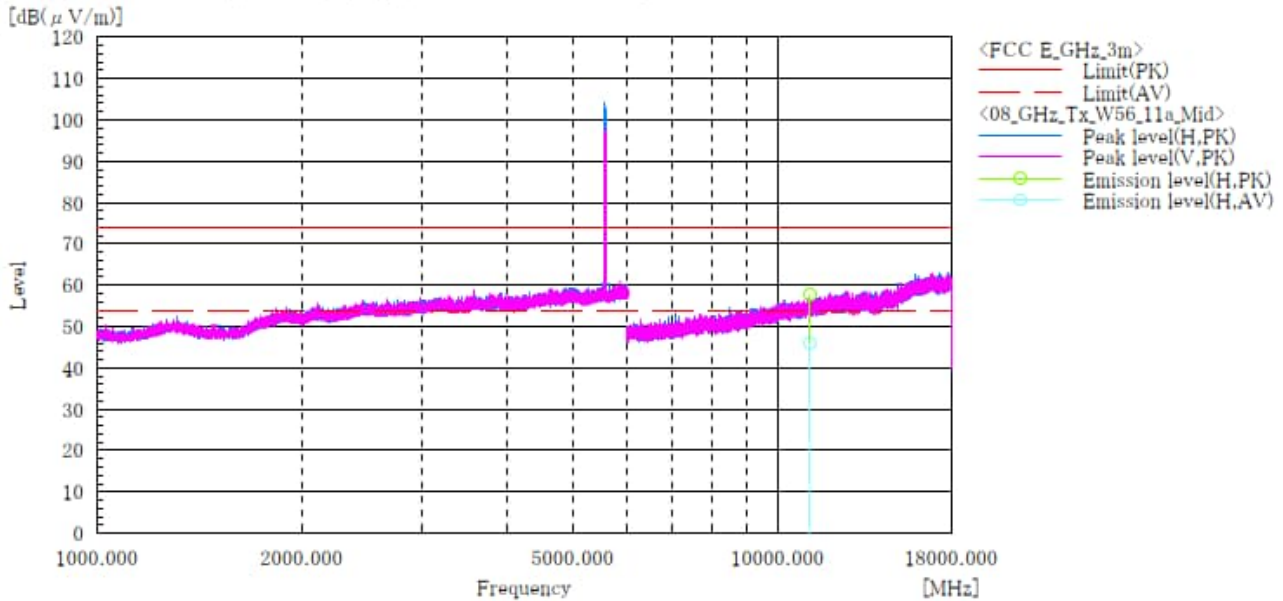
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.2[°C] 36.7[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:116_5580MHz |
| Test mode | : WLAN_W56_11a_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11160.000 | H | 45.9 | 34.1 | 11.9 | 57.8 | 46.0 | 74.0 | 54.0 | 16.2 | 8.0 | 100.0 | 128.0 |

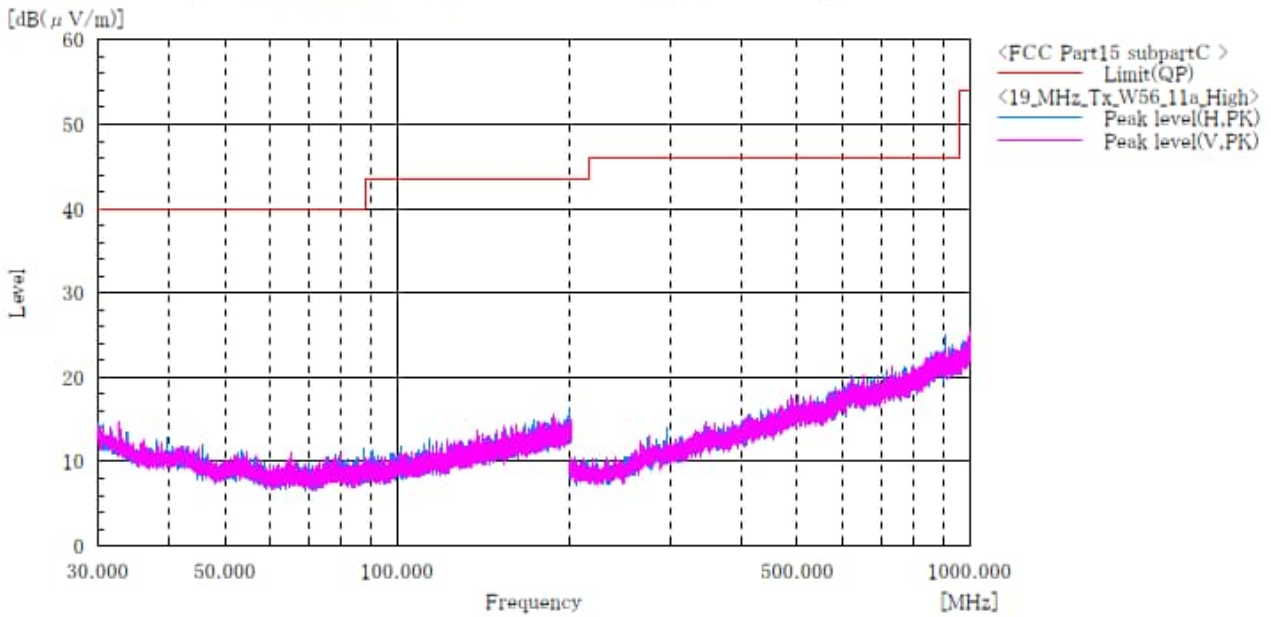
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354563600011206 | Note1 | : CH:140 5700MHz |
| Test mode | : WLAN_11a_W56_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

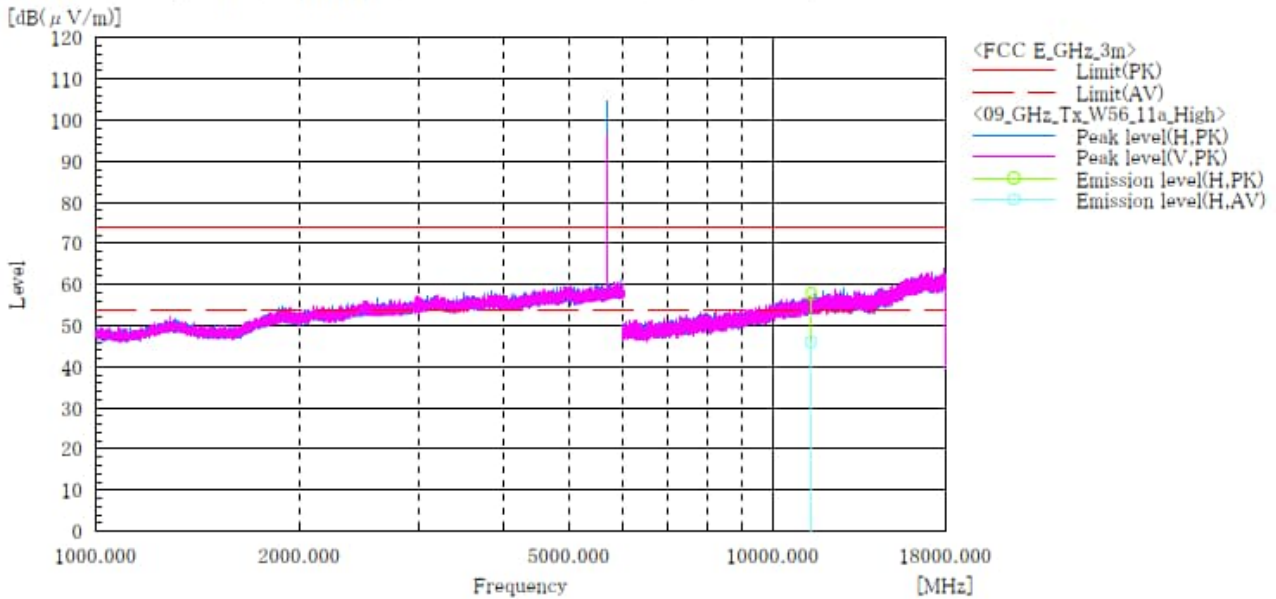
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.2[°C] 36.7[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:140_5700MHz |
| Test mode | : WLAN_W56_11a_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11400.000 | H | 45.6 | 33.9 | 12.2 | 57.8 | 46.1 | 74.0 | 54.0 | 16.2 | 7.9 | 100.0 | 85.0 |

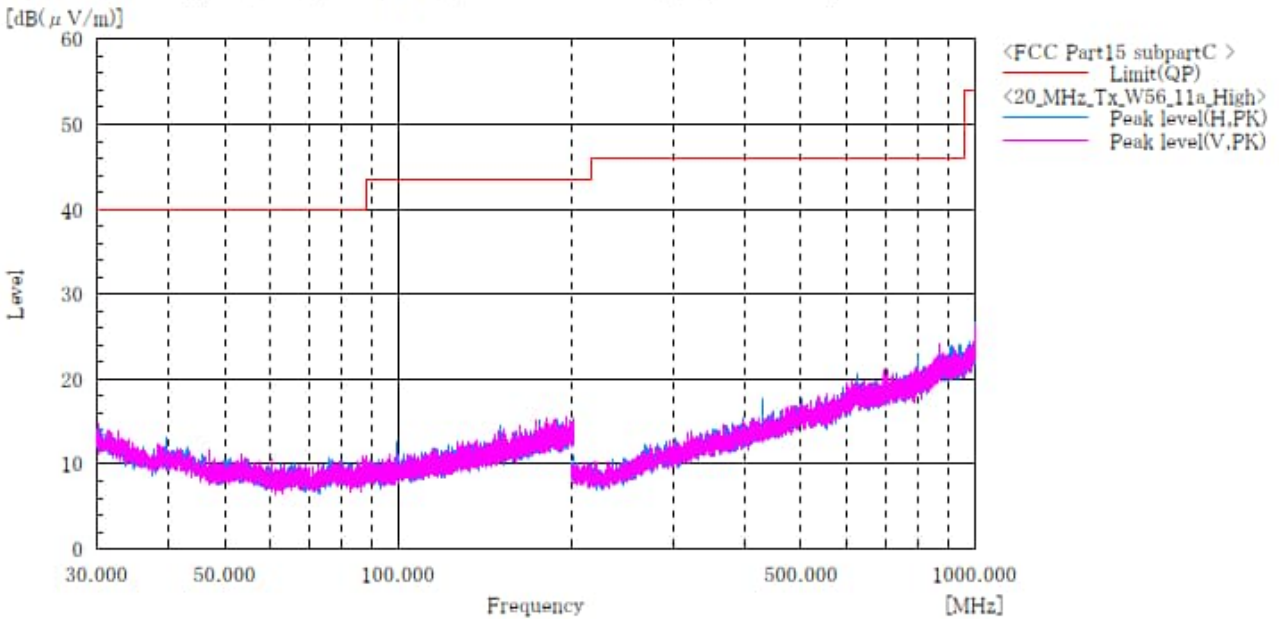
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:144 5720MHz |
| Test mode | : WLAN_11a_W56_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

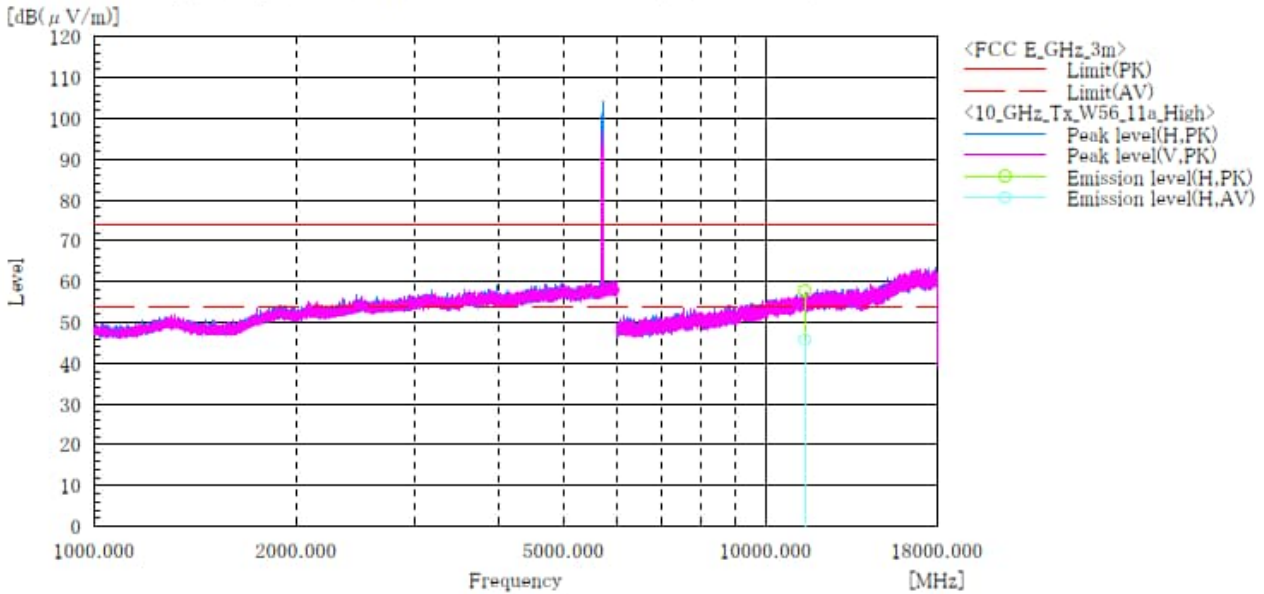
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11a]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.2[°C] 36.7[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:144_5720MHz |
| Test mode | : WLAN_W56_11a_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11440.000 | H | 45.6 | 33.6 | 12.2 | 57.8 | 45.8 | 74.0 | 54.0 | 16.2 | 8.2 | 100.0 | 55.0 |

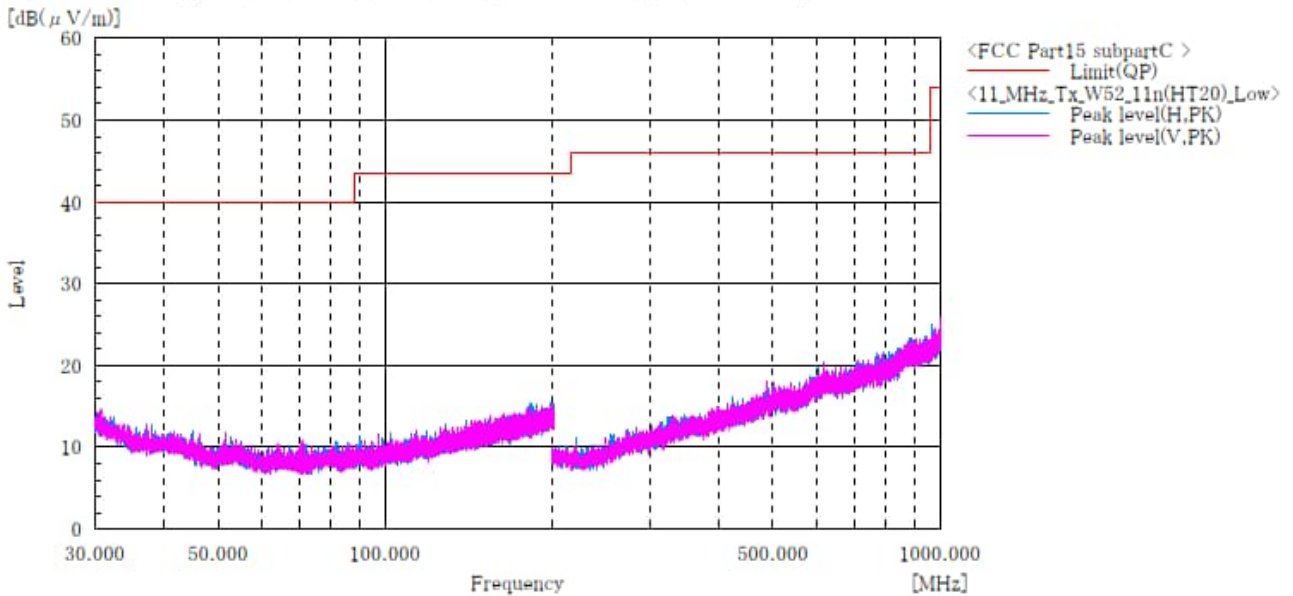
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.2 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum | : 23.7[°C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:36 5180MHz |
| Test mode | : WLAN_11n(HT20)_W52_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

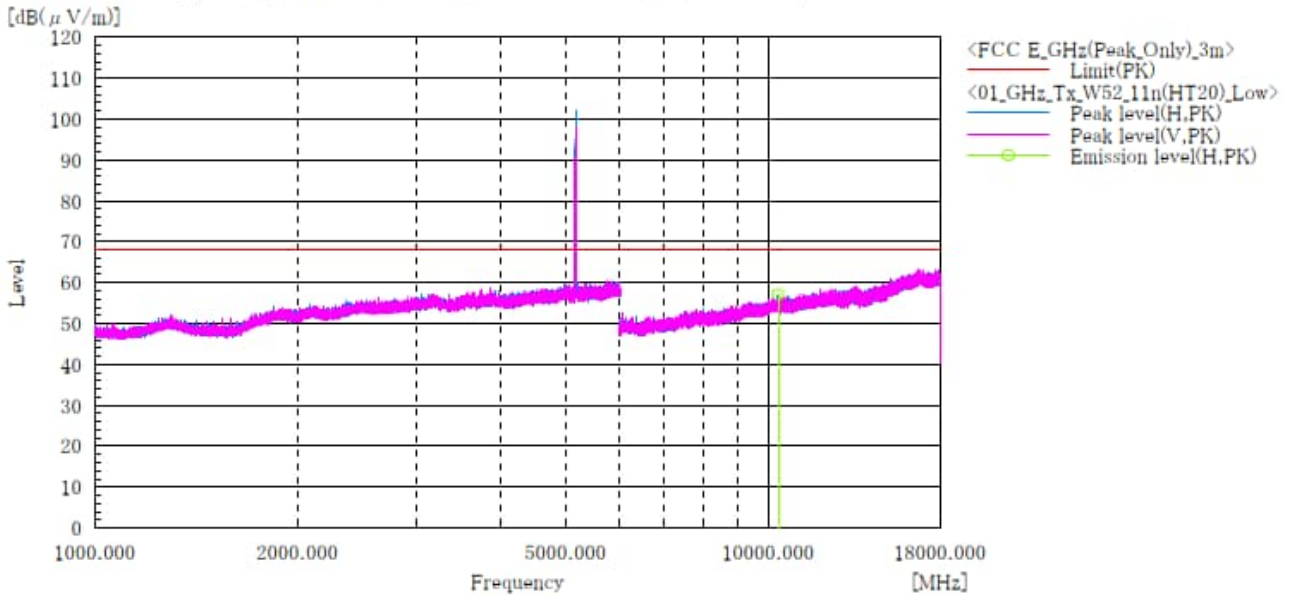
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.2 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart C |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum.Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:36_5180MHz |
| Test mode | : WLAN_W52_11n(HT20)_Tx_Low | Note2 | : |



Final Result

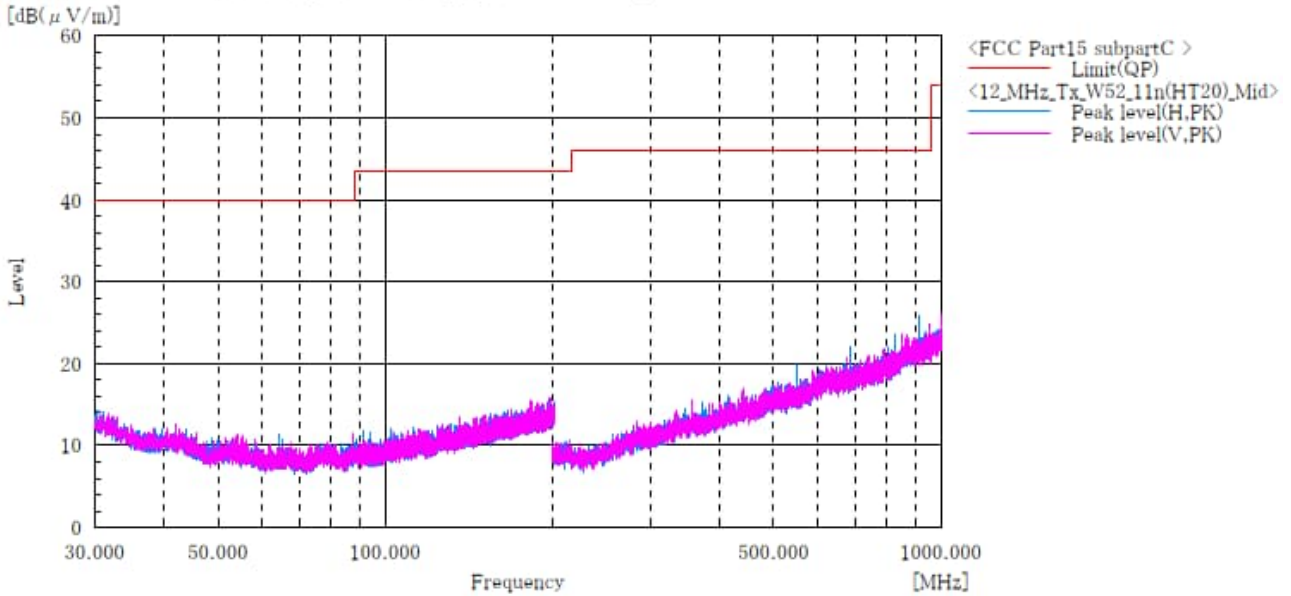
| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10360.000 | H | 46.1 | 11.1 | 57.2 | 68.2 | 11.0 | 123.0 | 120.0 |

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

[11n(HT20)]
5.2 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum | : 23.7[C] 38.6[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:40 5200MHz |
| Test mode | : WLAN_11n(HT20)_W52_Tx_ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
| | | | | |

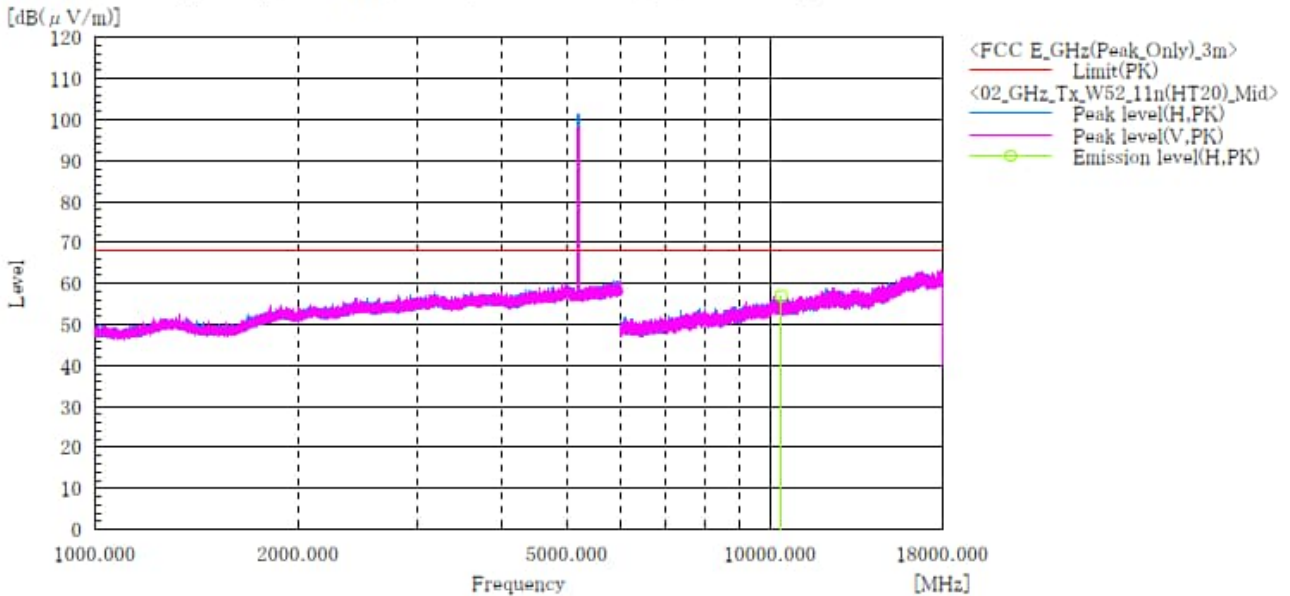
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.2 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:40_5200MHz |
| Test mode | : WLAN_W52_11n(HT20)_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10400.000 | H | 46.0 | 11.1 | 57.1 | 68.2 | 11.1 | 127.0 | 121.0 |

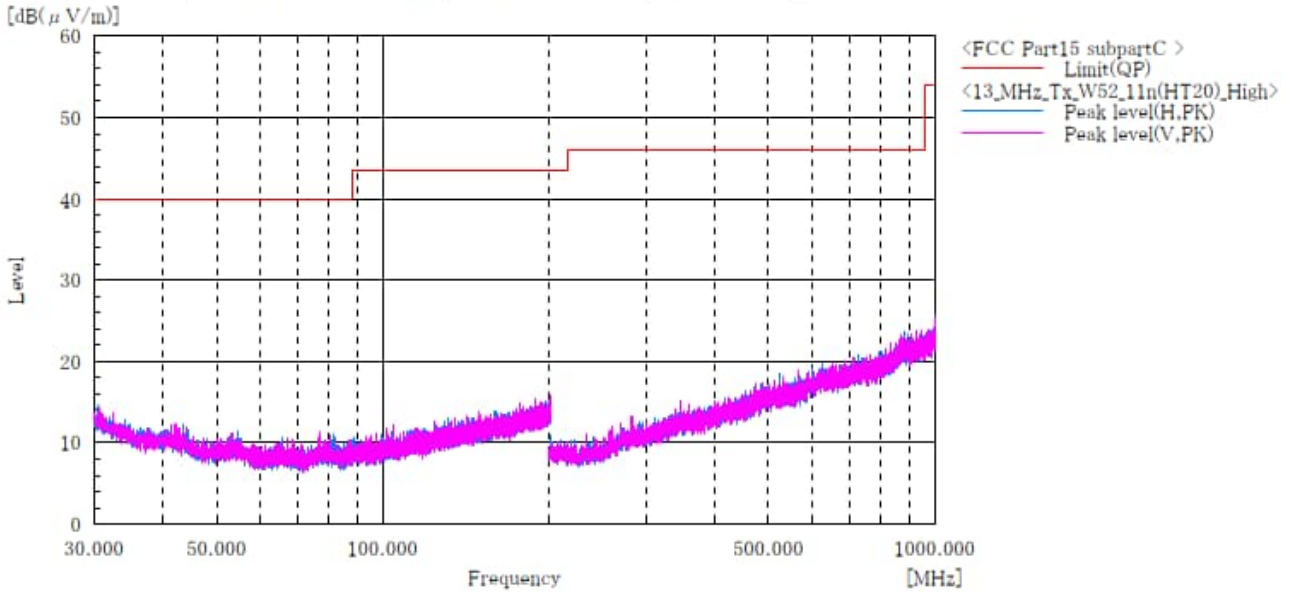
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.2 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:48 5240MHz |
| Test mode | : WLAN_11n(HT20)_W52_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

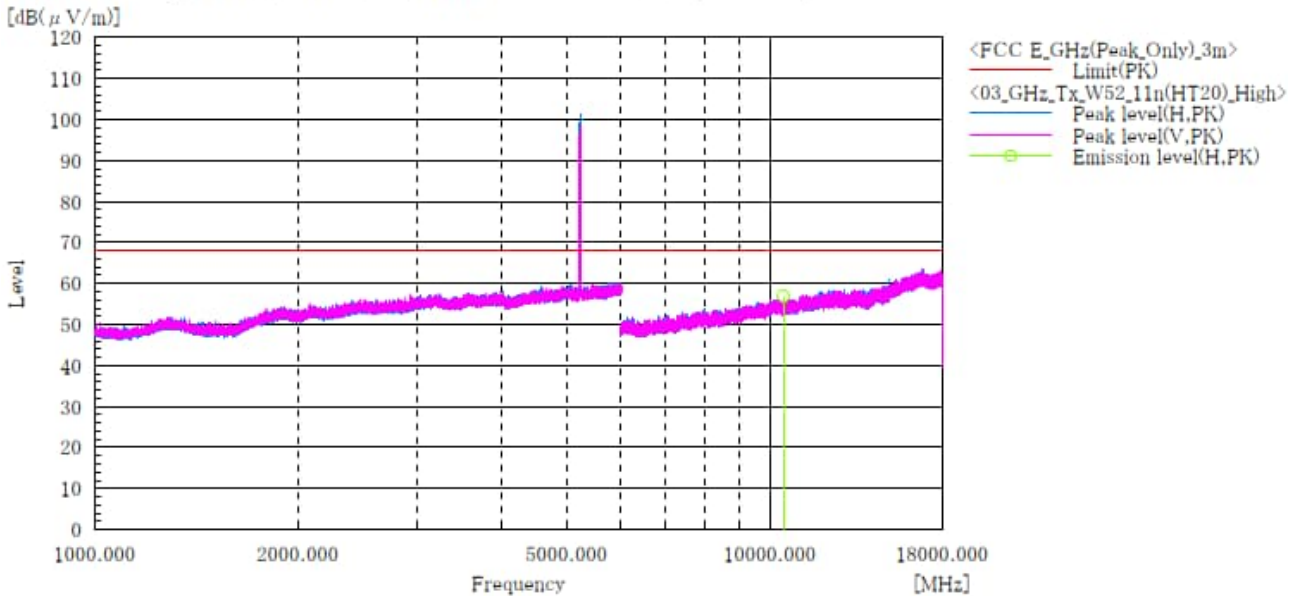
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.2 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum.Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:48_5240MHz |
| Test mode | : WLAN_W52_11n(HT20)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10480.000 | H | 45.9 | 11.2 | 57.1 | 68.2 | 11.1 | 133.0 | 119.0 |

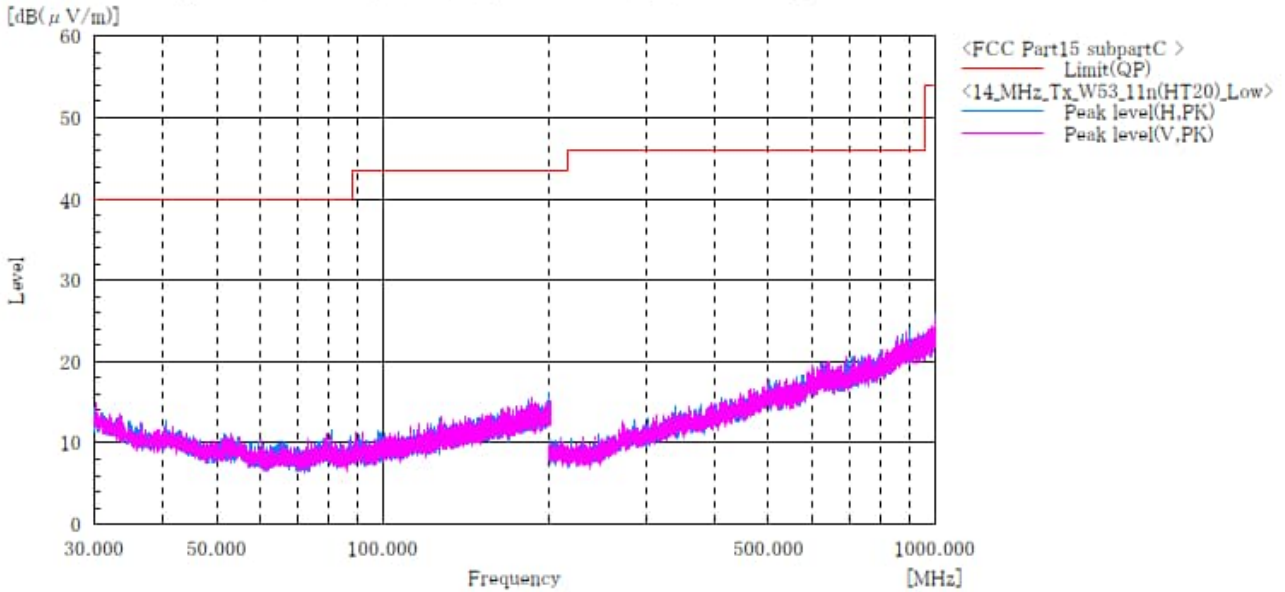
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.3 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:52 5260MHz |
| Test mode | : WLAN_11n(HT20)_W53_Tx,ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

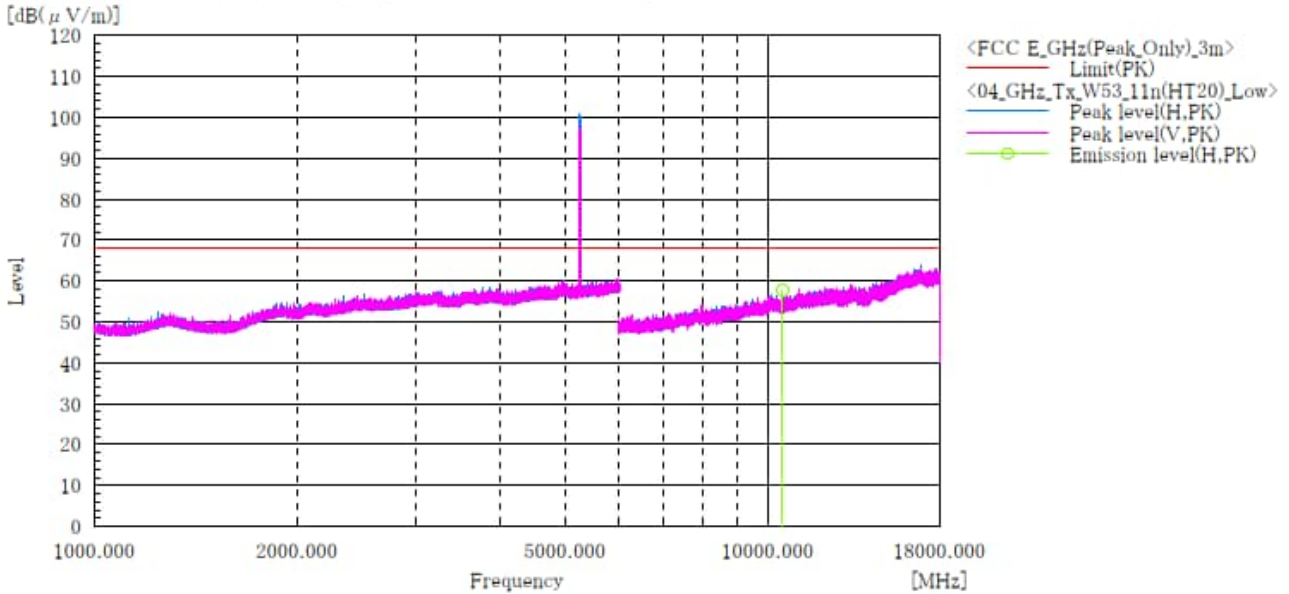
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.3 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:52_5260MHz |
| Test mode | : WLAN_W53_11n(HT20)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10520.000 | H | 46.5 | 11.2 | 57.7 | 68.2 | 10.5 | 130.0 | 119.0 |

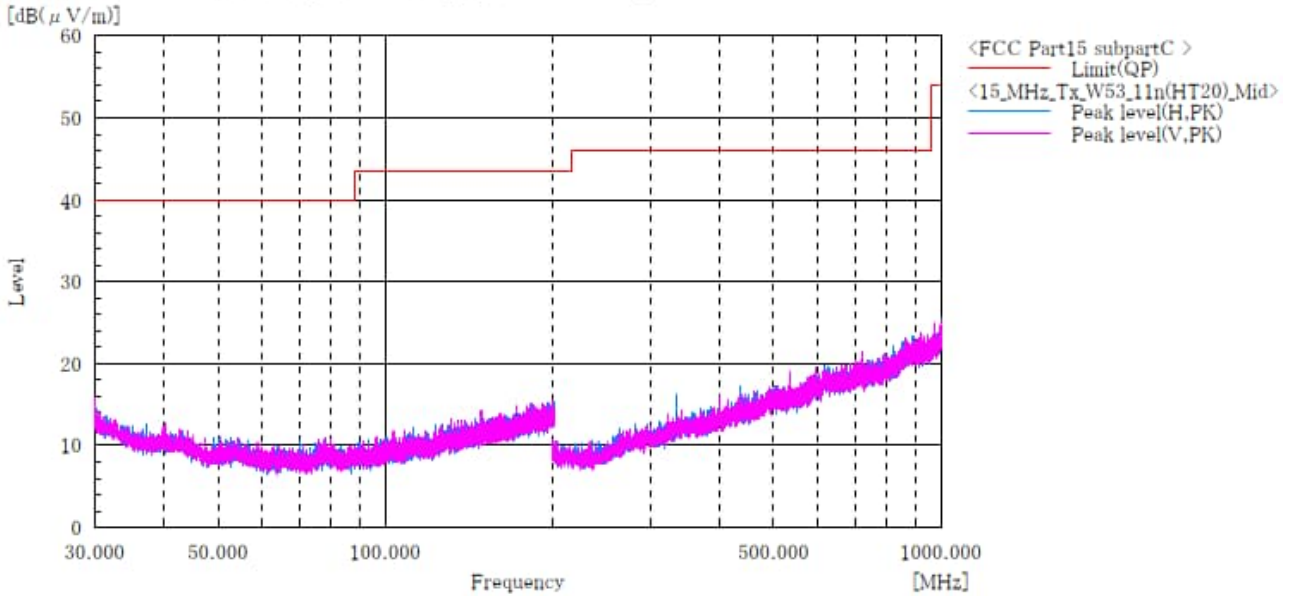
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.3 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:56 5280MHz |
| Test mode | : WLAN_11n(HT20)_W53_Tx_ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

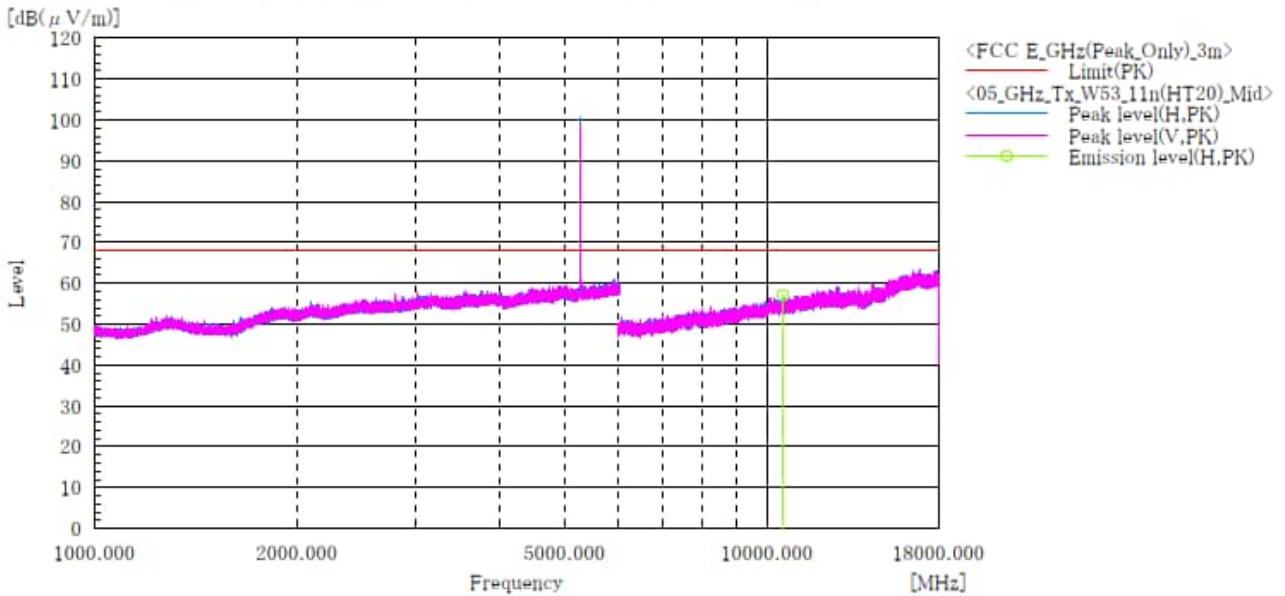
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.3 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:56_5280MHz |
| Test mode | : WLAN_W53_11n(HT20)_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10560.000 | H | 46.0 | 11.2 | 57.2 | 68.2 | 11.0 | 120.0 | 118.0 |

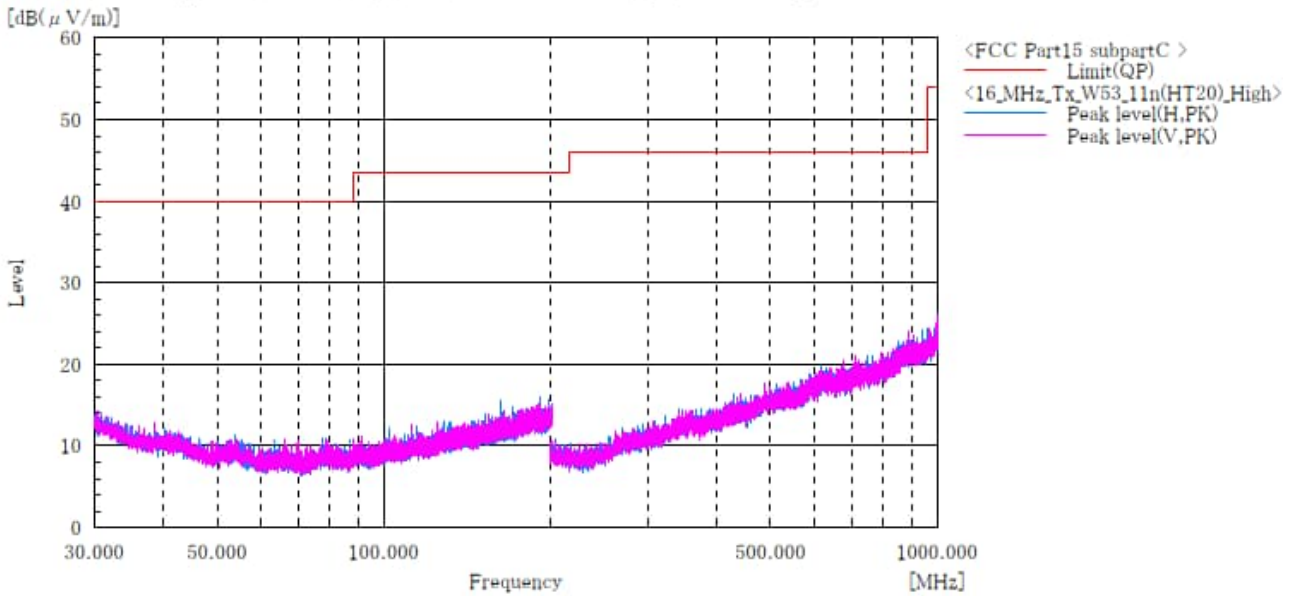
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.3 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:64 5320MHz |
| Test mode | : WLAN_11n(HT20)_W53_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

Note:

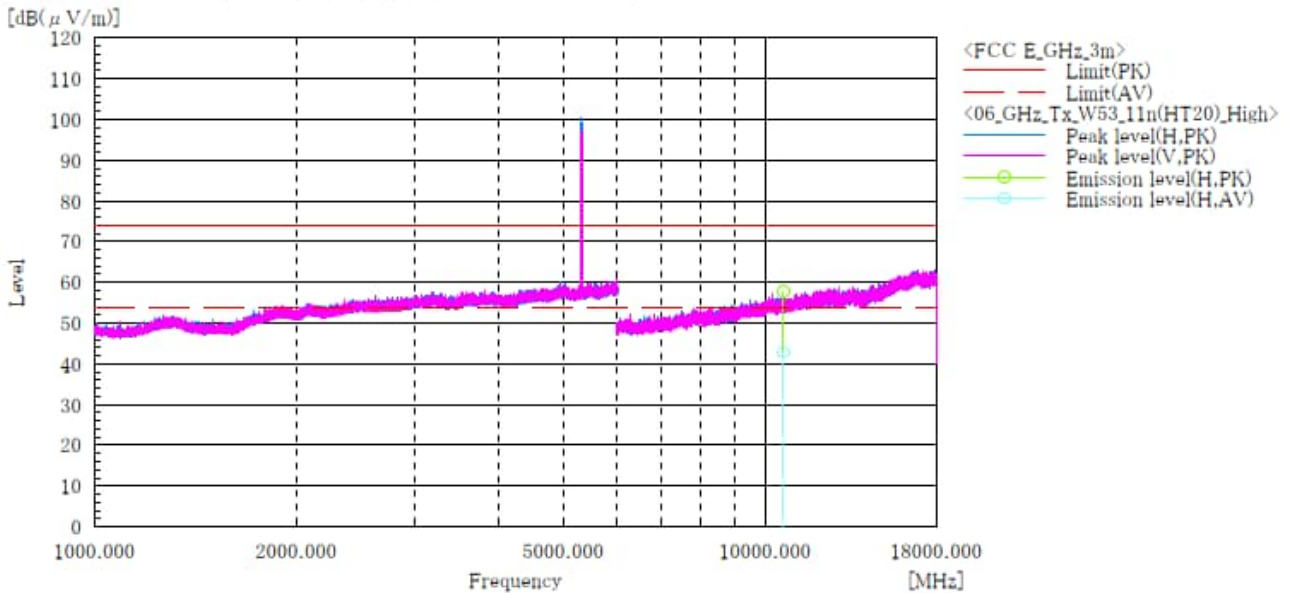
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

[11n(HT20)]
5.3 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:64_5320MHz |
| Test mode | : WLAN_W53_11n(HT20)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 10640.000 | H | 46.5 | 31.6 | 11.3 | 57.8 | 42.9 | 74.0 | 54.0 | 16.2 | 11.1 | 128.0 | 121.0 |

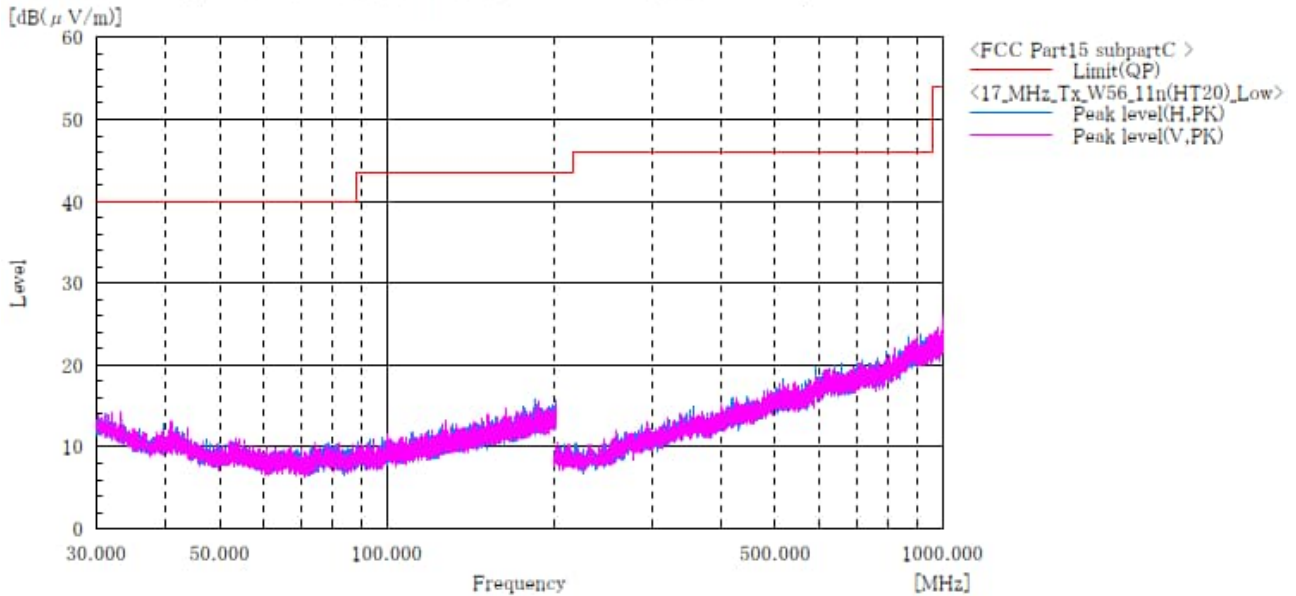
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:100 5500MHz |
| Test mode | : WLAN_11n(HT20)_W56_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

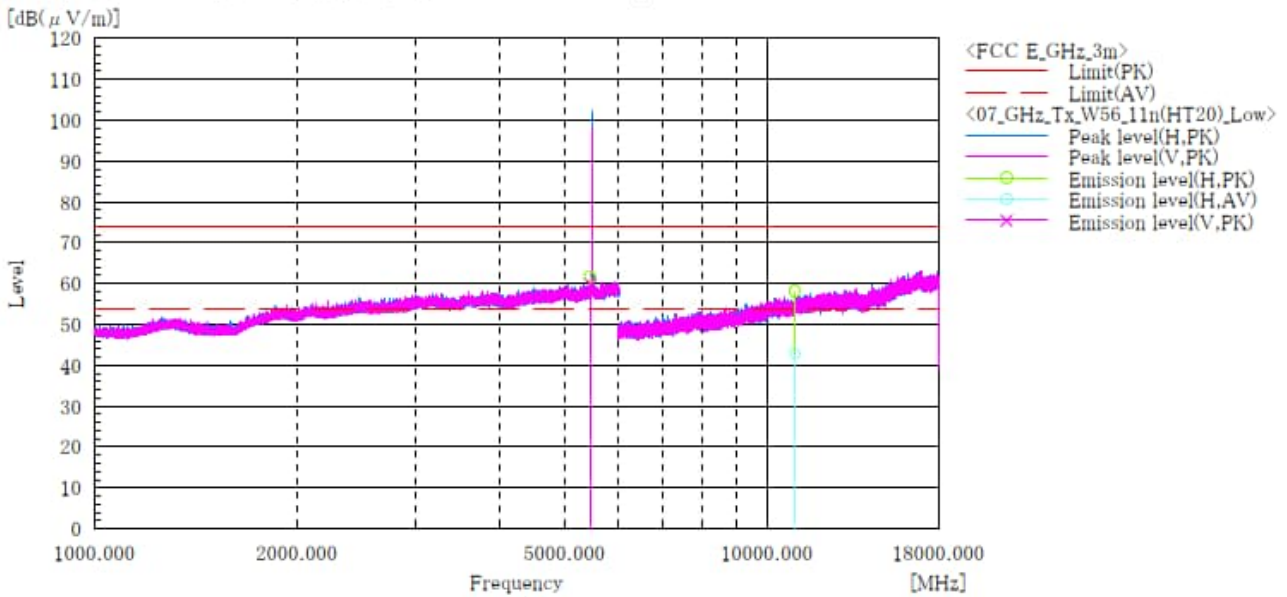
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:100_5500MHz |
| Test mode | : WLAN_W56_11n(HT20)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 5466.077 | H | 50.4 | | 11.4 | 61.8 | | 68.2 | 54.0 | 6.4 | | 108.0 | 154.0 |
| 2 | 5468.244 | V | 48.4 | | 11.4 | 59.8 | | 68.2 | 54.0 | 8.4 | | 117.0 | 81.0 |
| 3 | 11000.000 | H | 46.4 | 31.1 | 11.8 | 58.2 | 42.9 | 74.0 | 54.0 | 15.8 | 11.1 | 100.0 | 156.0 |

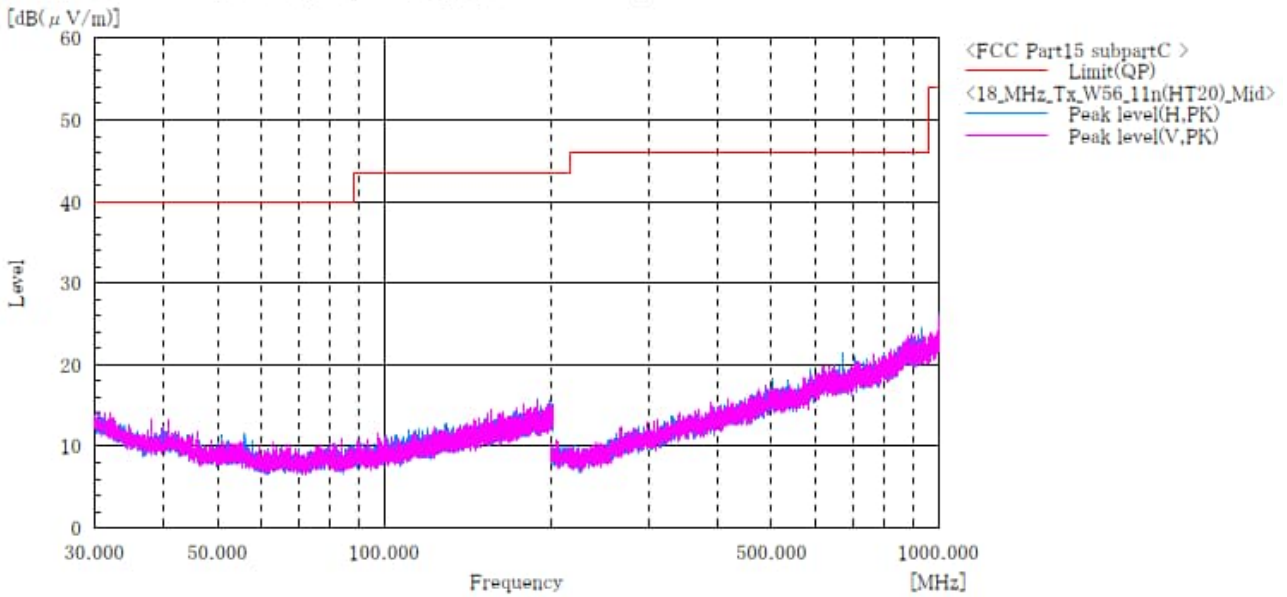
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:116 5580MHz |
| Test mode | : WLAN_11n(HT20)_W56_Tx,ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

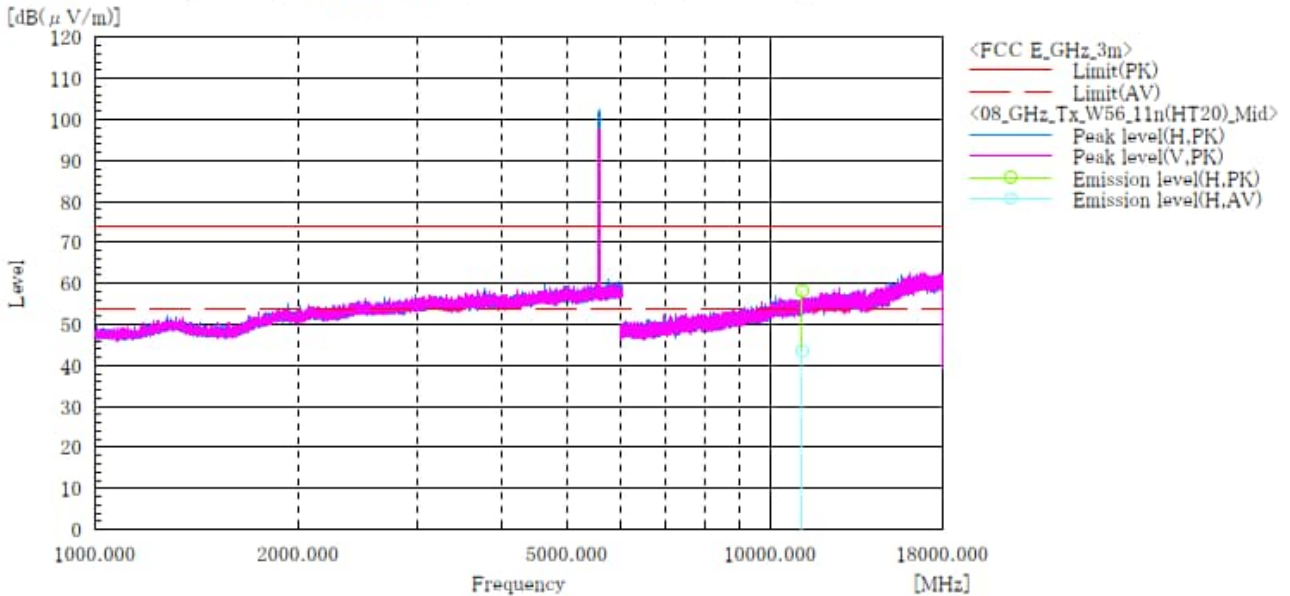
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum.Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:116_5580MHz |
| Test mode | : WLAN_W56_11n(HT20)_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|----------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11160.000 | H | 46.4 | 31.7 | 11.9 | 58.3 | 43.6 | 74.0 | 54.0 | 15.7 | 10.4 | 100.0 | 154.0 |

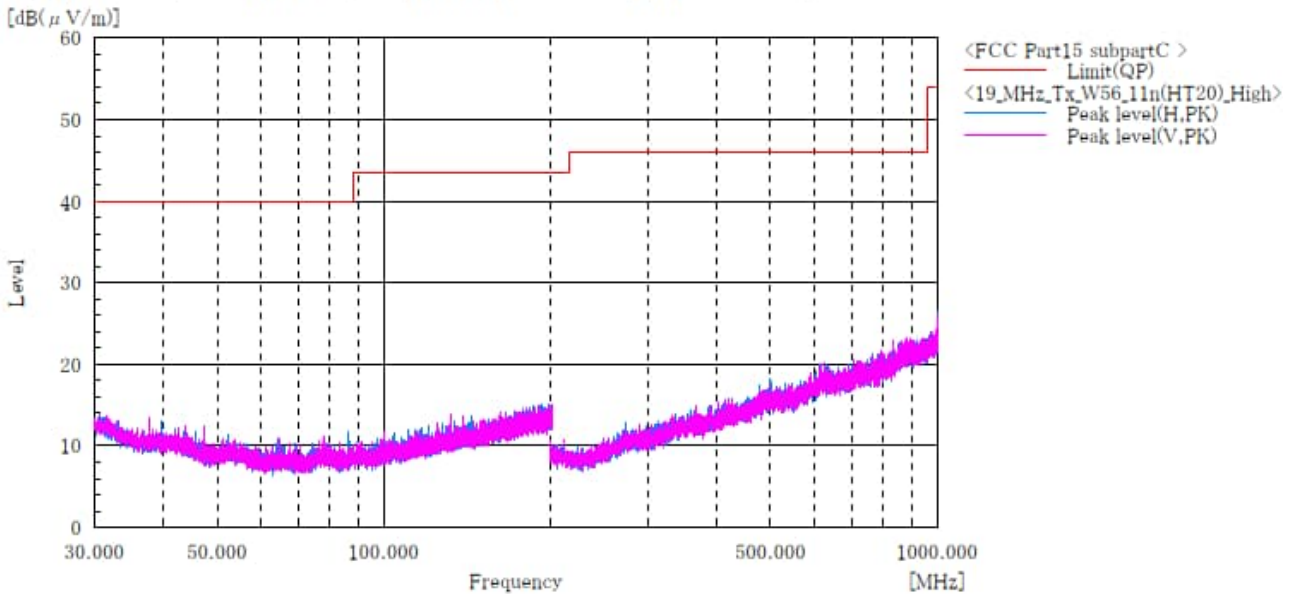
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:140 5700MHz |
| Test mode | : WLAN_11n(HT20)_W56_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

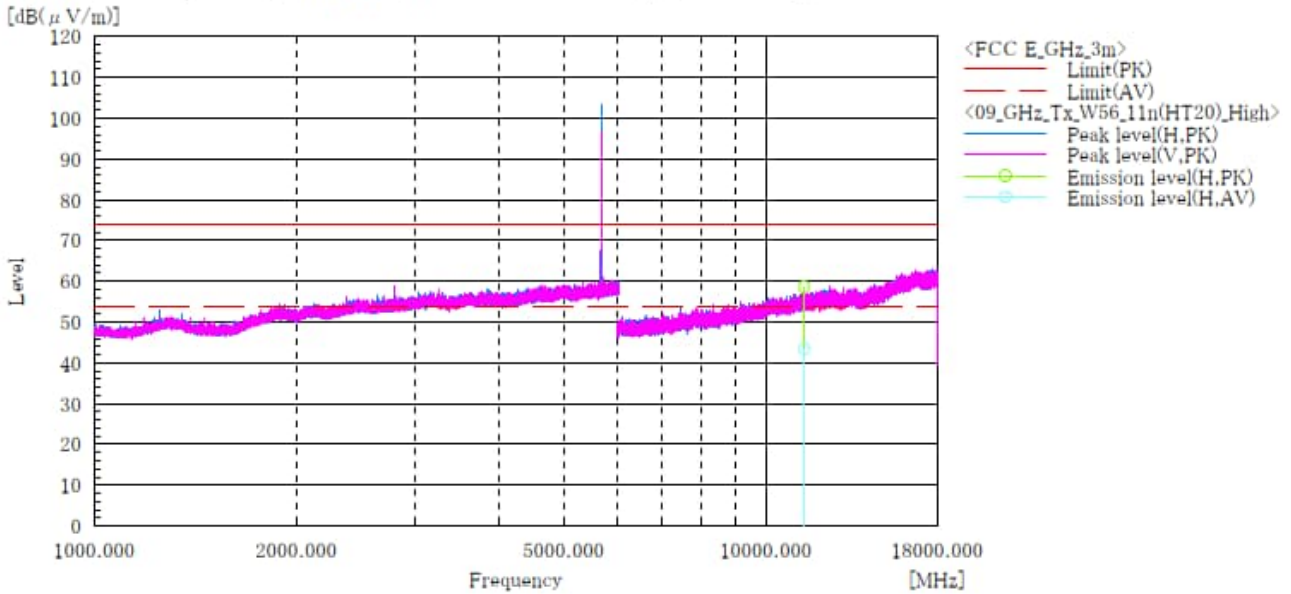
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:140,5700MHz |
| Test mode | : WLAN_W56_11n(HT20)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11400.000 | H | 46.5 | 31.3 | 12.2 | 58.7 | 43.5 | 74.0 | 54.0 | 15.3 | 10.5 | 100.0 | 158.0 |

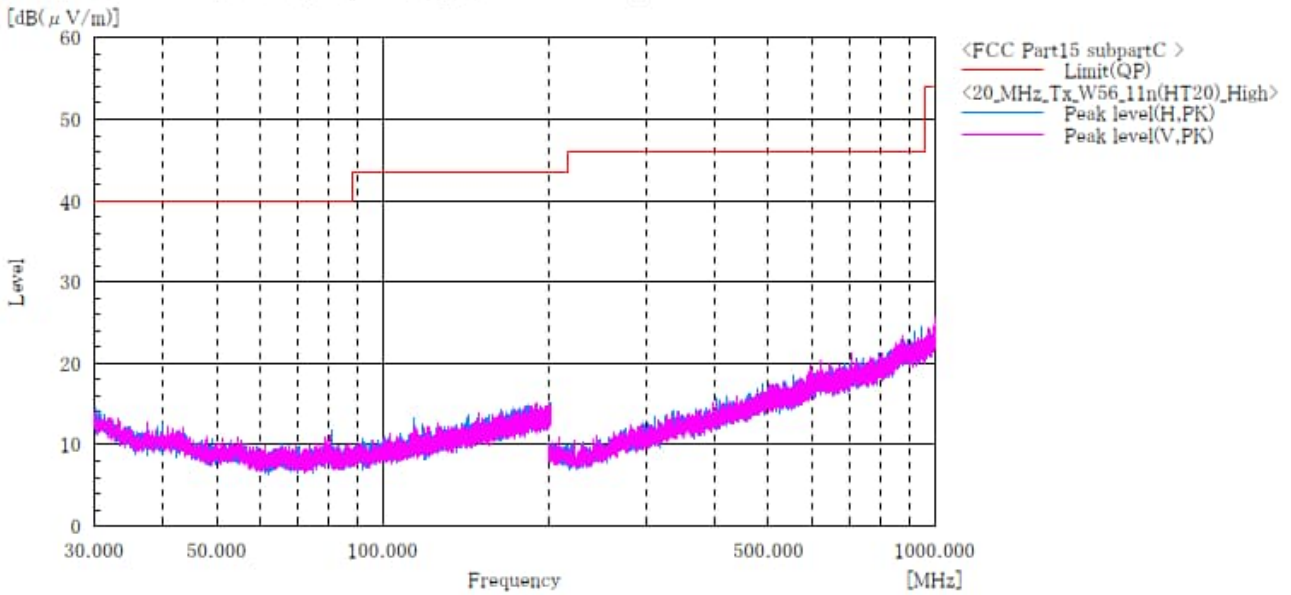
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:144 5720MHz |
| Test mode | : WLAN_11n(HT20)_W56_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

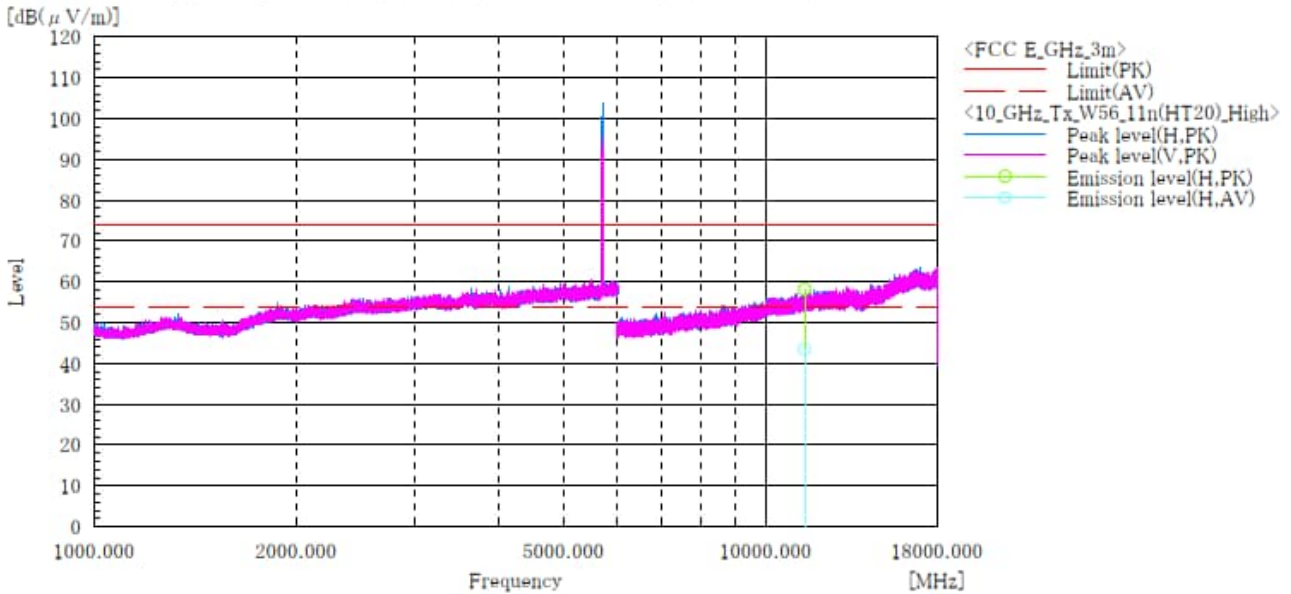
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT20)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:144_5720MHz |
| Test mode | : WLAN_W56_11n(HT20)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11440.000 | H | 46.0 | 31.5 | 12.2 | 58.2 | 43.7 | 74.0 | 54.0 | 15.8 | 10.3 | 108.0 | 179.0 |

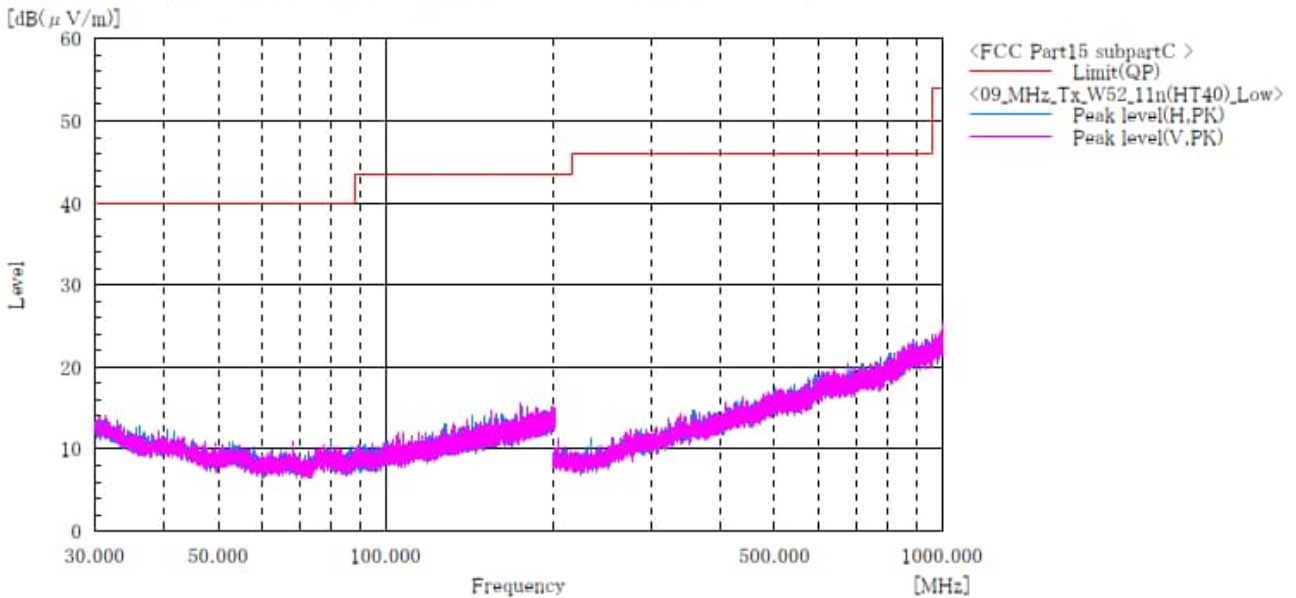
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.2 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:38 5190MHz |
| Test mode | : 5GHz_W52_11n(HT40)_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

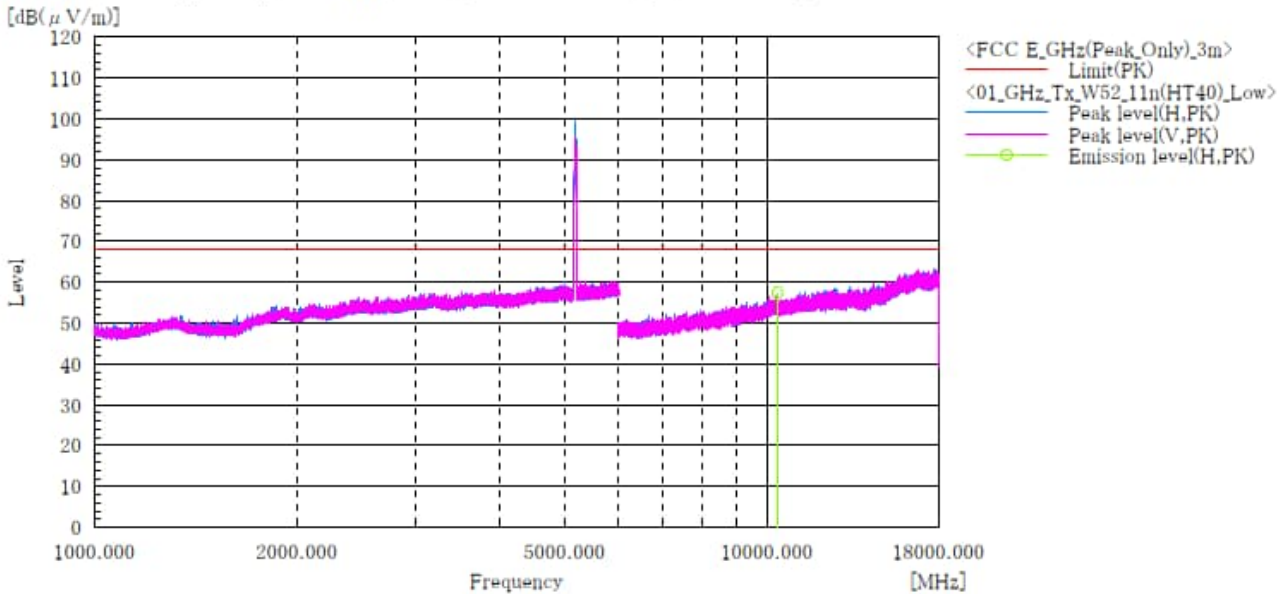
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.2 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum,Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:38_5190MHz |
| Test mode | : WLAN_W52_11n(HT40)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10380.000 | H | 46.2 | 11.1 | 57.3 | 68.2 | 10.9 | 130.0 | 120.0 |

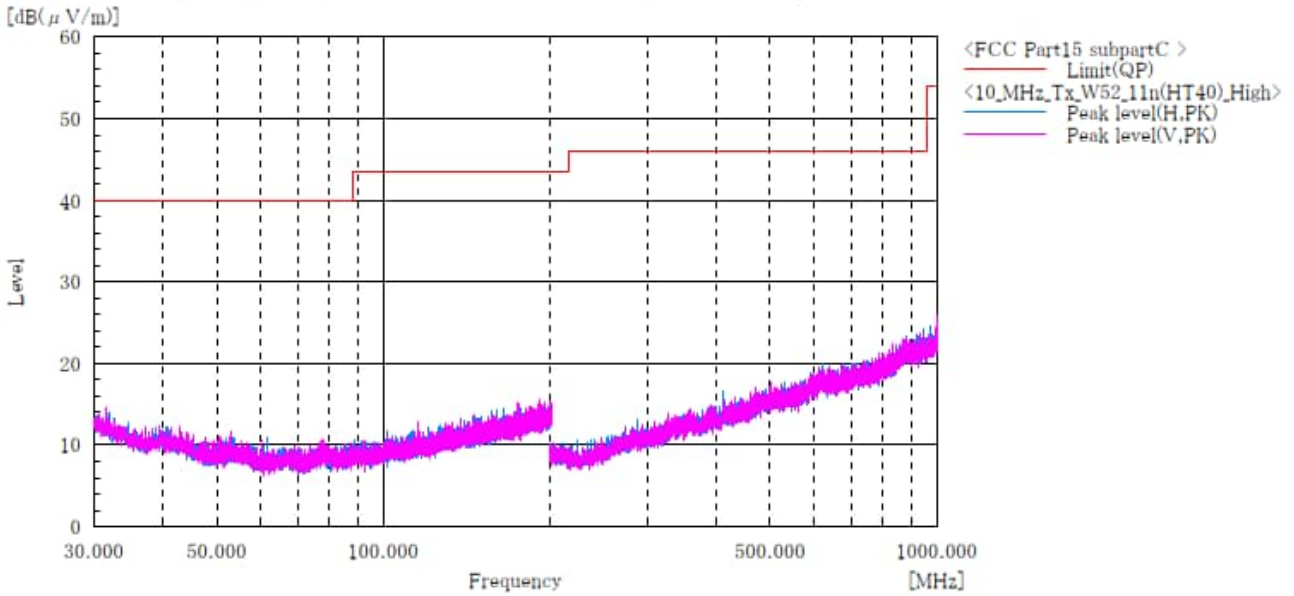
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.2 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:46 5230MHz |
| Test mode | : 5GHz_W52_11n(HT40)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

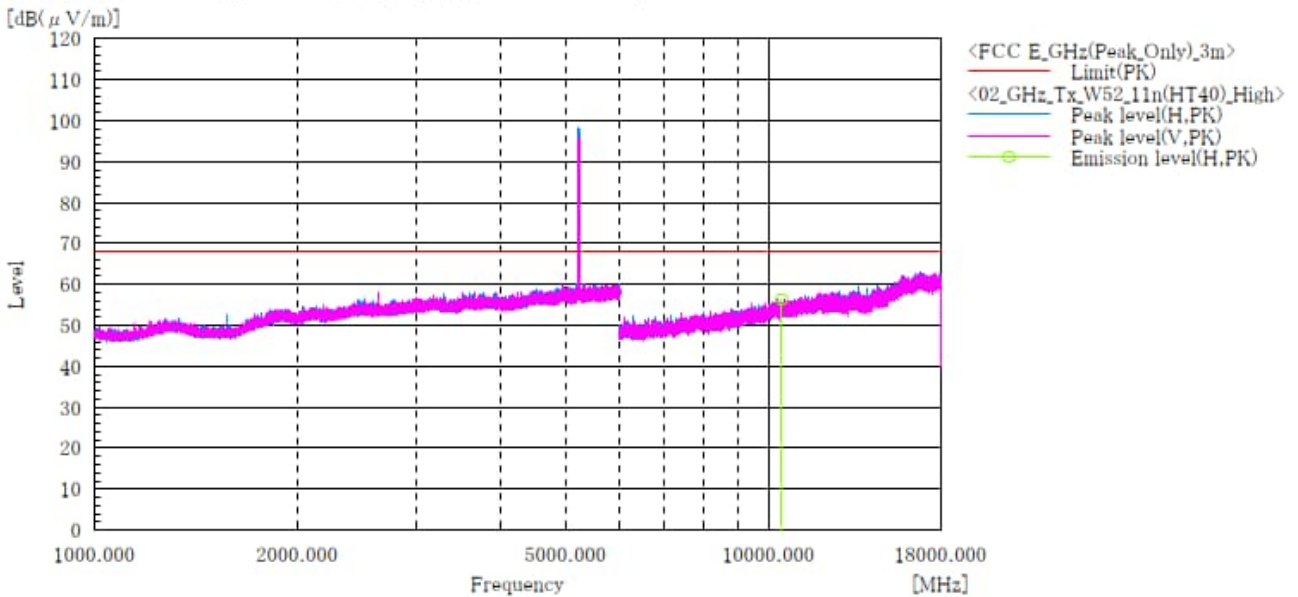
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.2 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp.Hum.Atm | : 23.0[°C] 36.2[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:46_5230MHz |
| Test mode | : WLAN_W52_11n(HT40)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10460.000 | H | 45.2 | 11.2 | 56.4 | 68.2 | 11.8 | 123.0 | 120.0 |

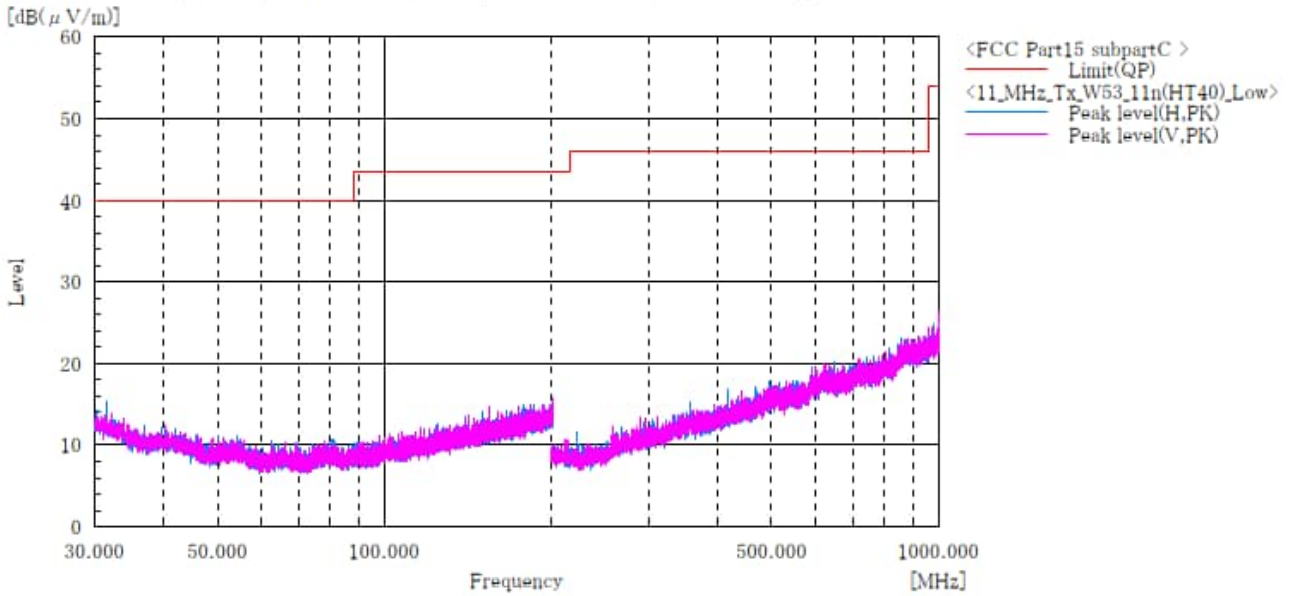
Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
- No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.3 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:54 5270MHz |
| Test mode | : 5GHz_W53_11n(HT40)_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

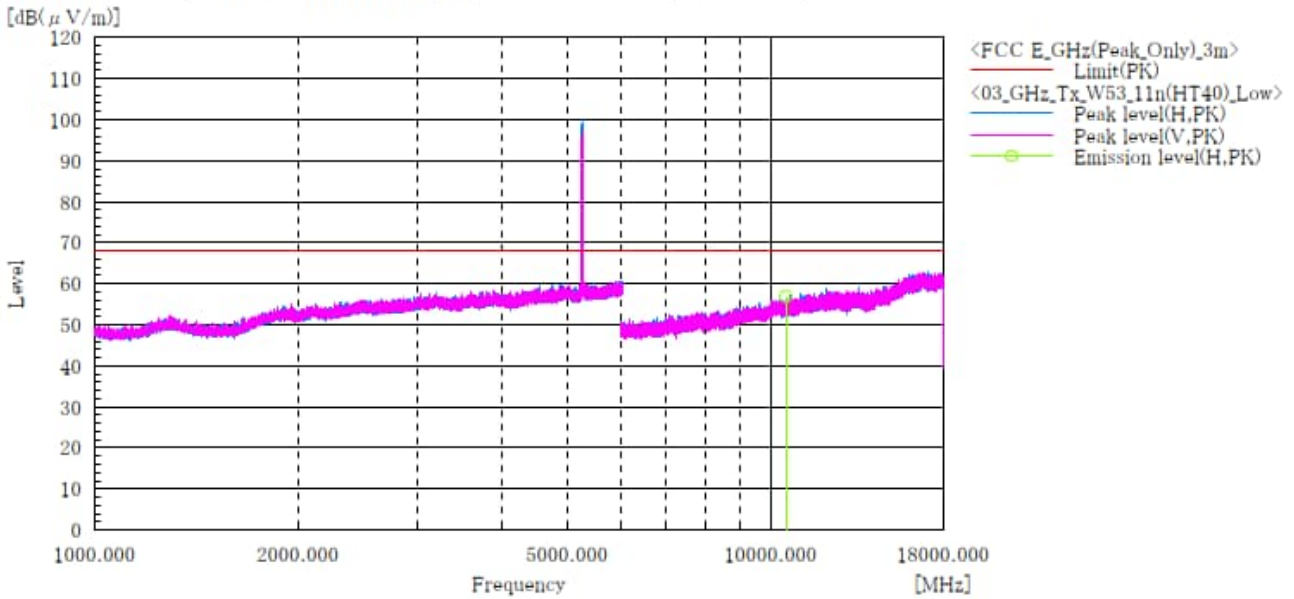
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.3 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:54_5270MHz |
| Test mode | : WLAN_W53_11n(HT40)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10540.000 | H | 45.7 | 11.2 | 56.9 | 68.2 | 11.3 | 100.0 | 223.0 |

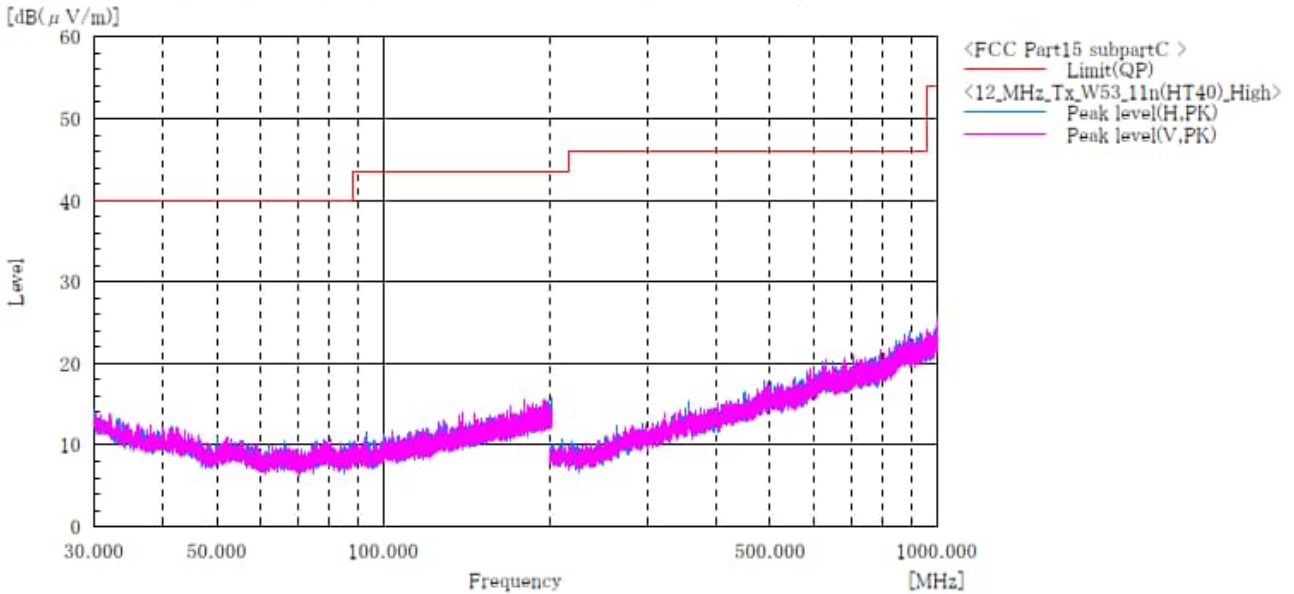
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.3 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:62 5310MHz |
| Test mode | : 5GHz_W53_11n(HT40)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

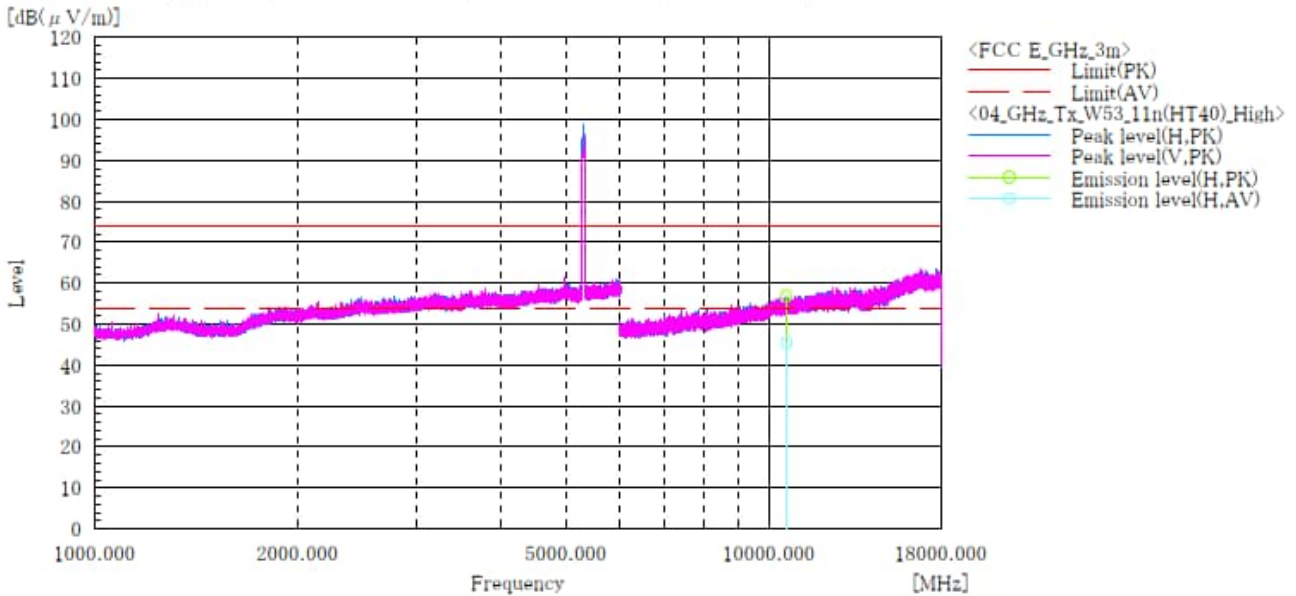
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.3 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:62_5310MHz |
| Test mode | : WLAN_W53_11n(HT40)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 10620.000 | H | 45.7 | 34.3 | 11.3 | 57.0 | 46.6 | 74.0 | 54.0 | 17.0 | 8.4 | 100.0 | 128.0 |

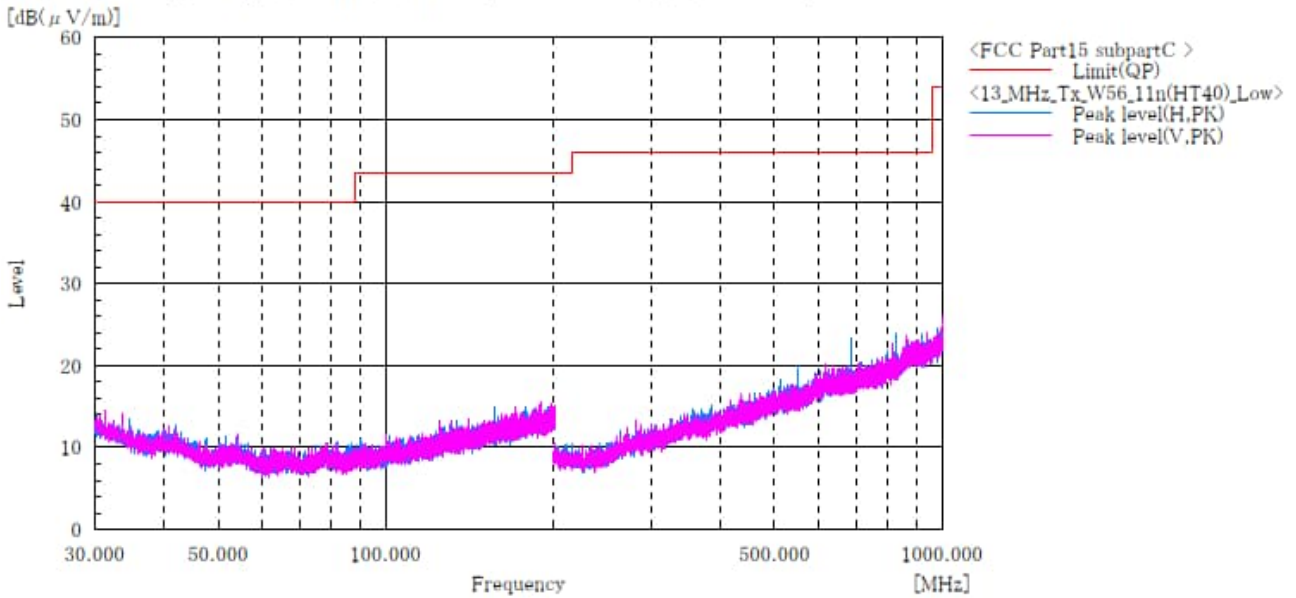
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|--------------------------------|-----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp, Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:102 5510MHz |
| Test mode | : 5GHz_W56_11n(HT40)_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

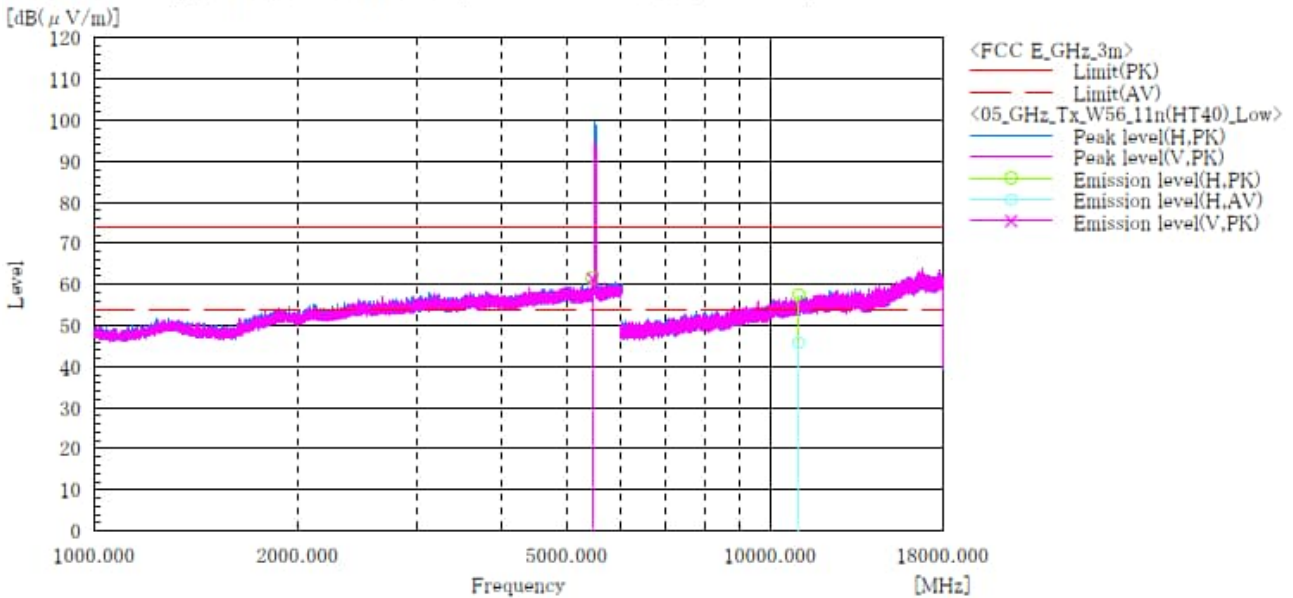
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:102_5510MHz |
| Test mode | : WLAN_W56_11n(HT40)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 5462.600 | H | 50.2 | 11.4 | 11.4 | 61.6 | 68.2 | 68.2 | 54.0 | 6.6 | 6.6 | 100.0 | 173.0 |
| 2 | 5467.200 | V | 50.0 | 11.4 | 11.4 | 61.4 | 68.2 | 68.2 | 54.0 | 6.8 | 6.8 | 100.0 | 306.0 |
| 3 | 11020.000 | H | 45.8 | 34.0 | 11.8 | 57.6 | 45.8 | 74.0 | 54.0 | 16.4 | 8.2 | 100.0 | 233.0 |

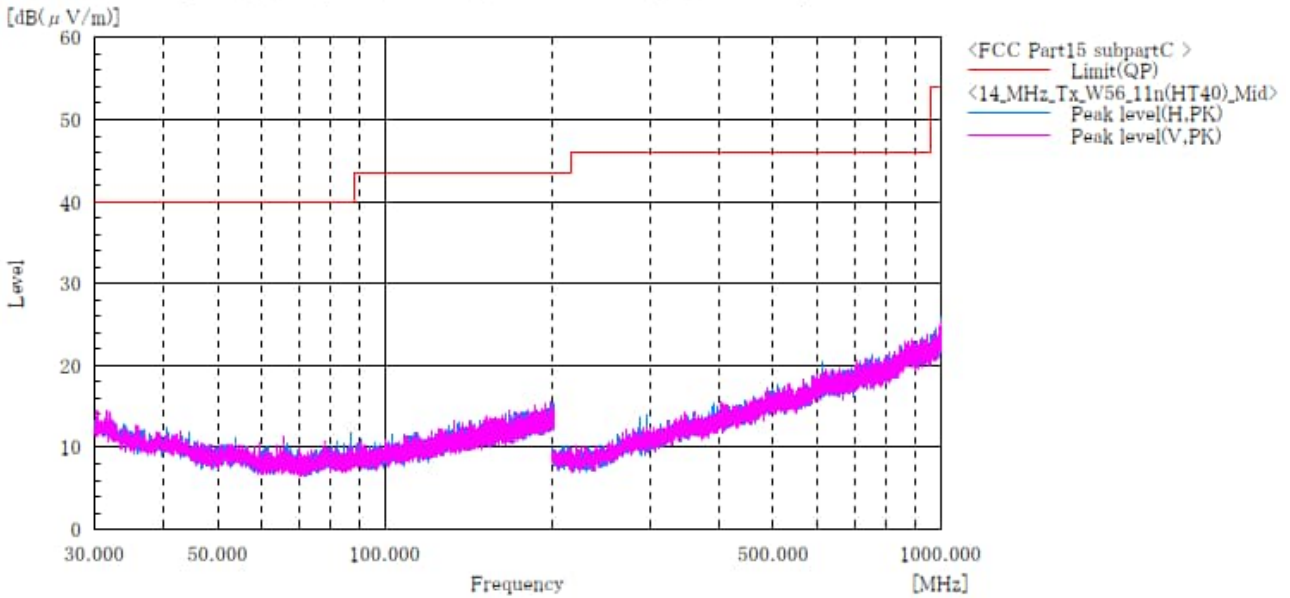
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel Middle
BELOW 1GHz

| | | | |
|--------------|--------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:110 5550MHz |
| Test mode | : 5GHz_W56_11n(HT40)_Tx_ch:Mid | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

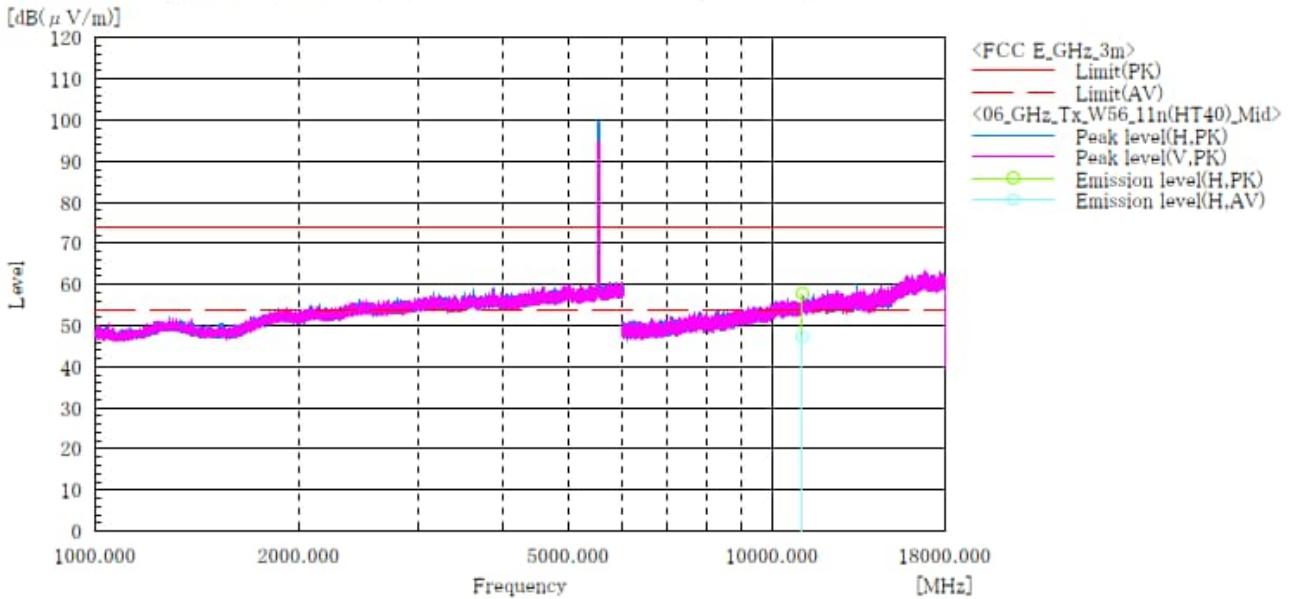
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

| | | | |
|--------------|-----------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:110_5550MHz |
| Test mode | : WLAN_W56_11n(HT40)_Tx_Mid | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|----------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11100.000 | H | 45.9 | 35.4 | 11.9 | 57.8 | 47.3 | 74.0 | 54.0 | 16.2 | 6.7 | 100.0 | 332.0 |

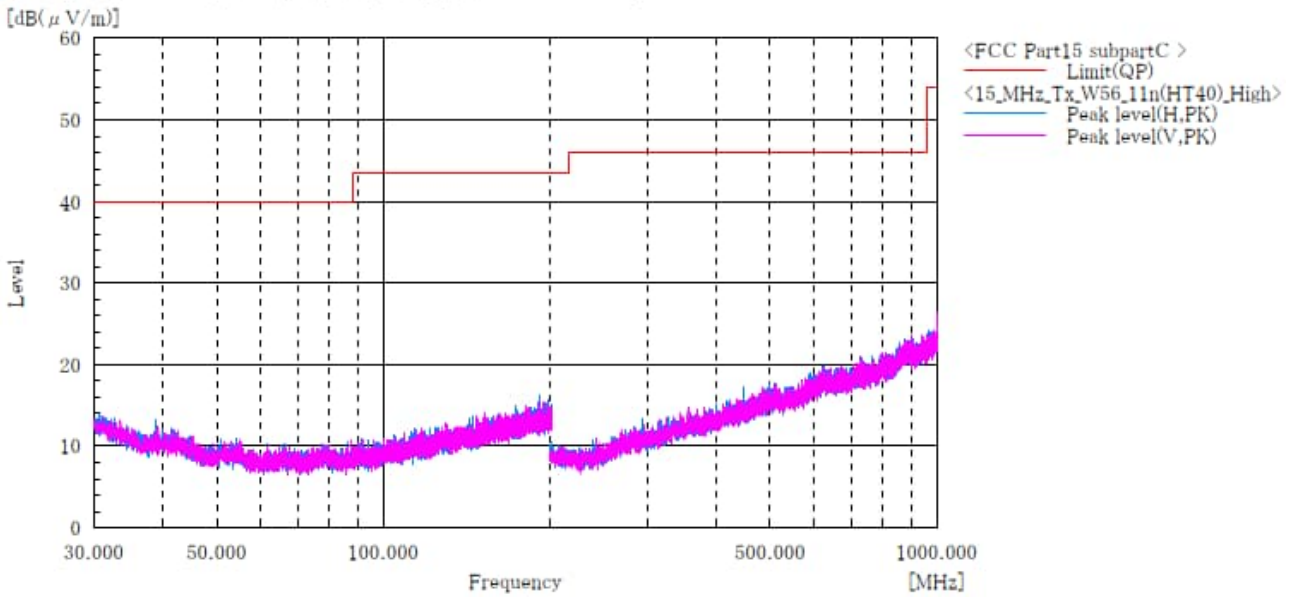
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:134 5670MHz |
| Test mode | : 5GHz_W56_11n(HT40)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

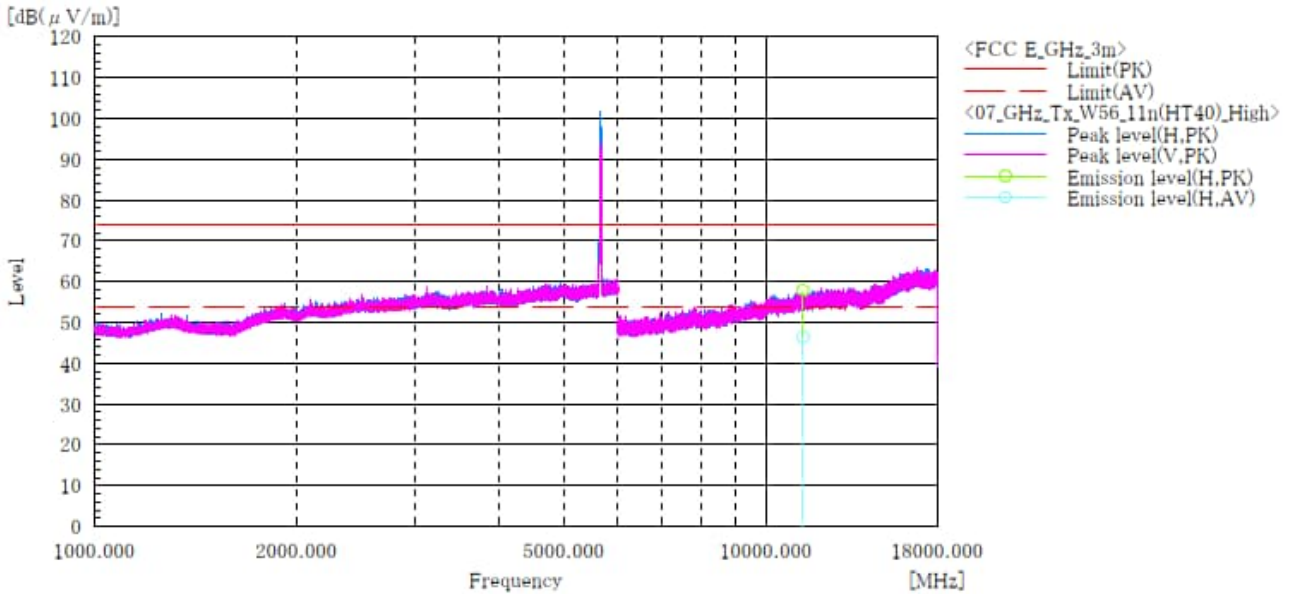
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp,Hum,Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:134_5670MHz |
| Test mode | : WLAN_W56_11n(HT40)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11340.000 | H | 45.8 | 34.3 | 12.2 | 58.0 | 46.5 | 74.0 | 54.0 | 16.0 | 7.5 | 100.0 | 112.0 |

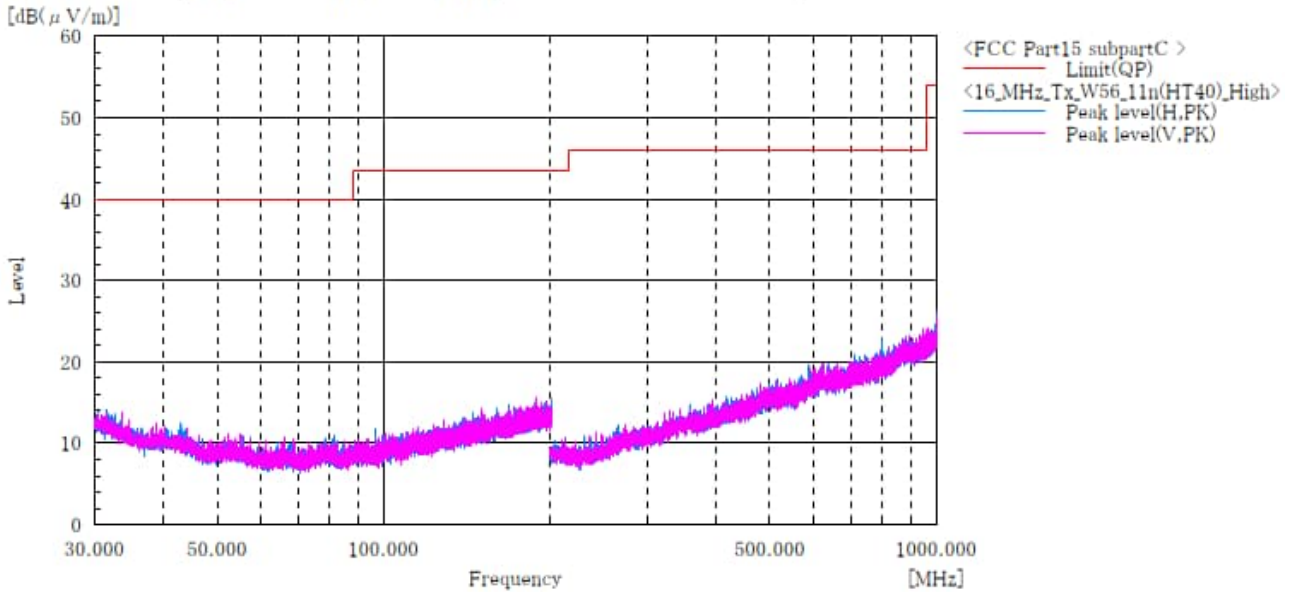
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|---------------------------------|----------|------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpartE |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:142 5710MHz |
| Test mode | : 5GHz_W56_11n(HT40)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

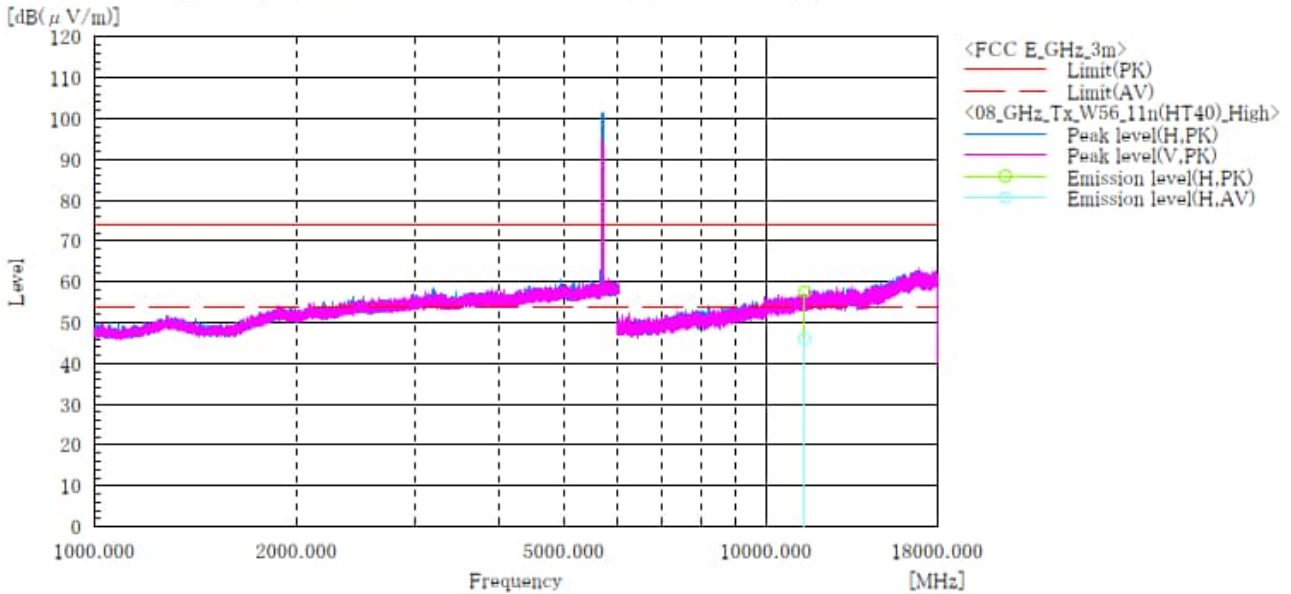
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11n(HT40)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:142_5710MHz |
| Test mode | : WLAN_W56_11n(HT40)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11420.000 | H | 45.4 | 33.8 | 12.2 | 57.6 | 46.0 | 74.0 | 54.0 | 16.4 | 8.0 | 100.0 | 153.0 |

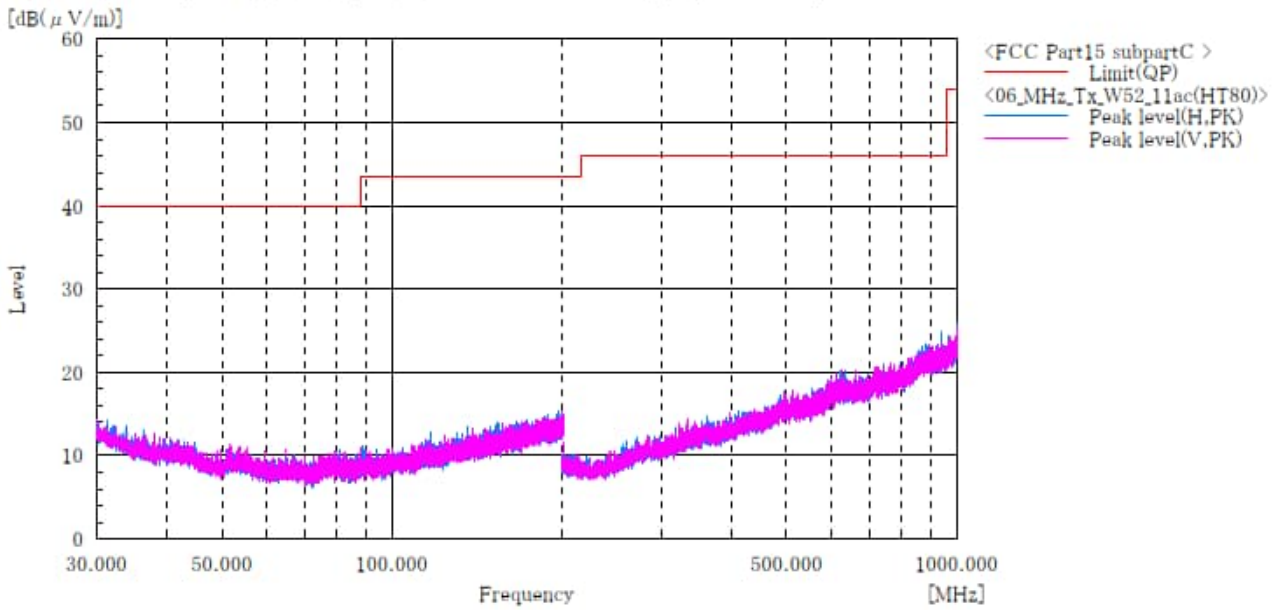
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11ac(VHT80)]
5.2 GHz Band BELOW 1GHz

| | | | |
|--------------|---------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:42 5210MHz |
| Test mode | : 5GHz_W52_11ac(VHT80)_Tx | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

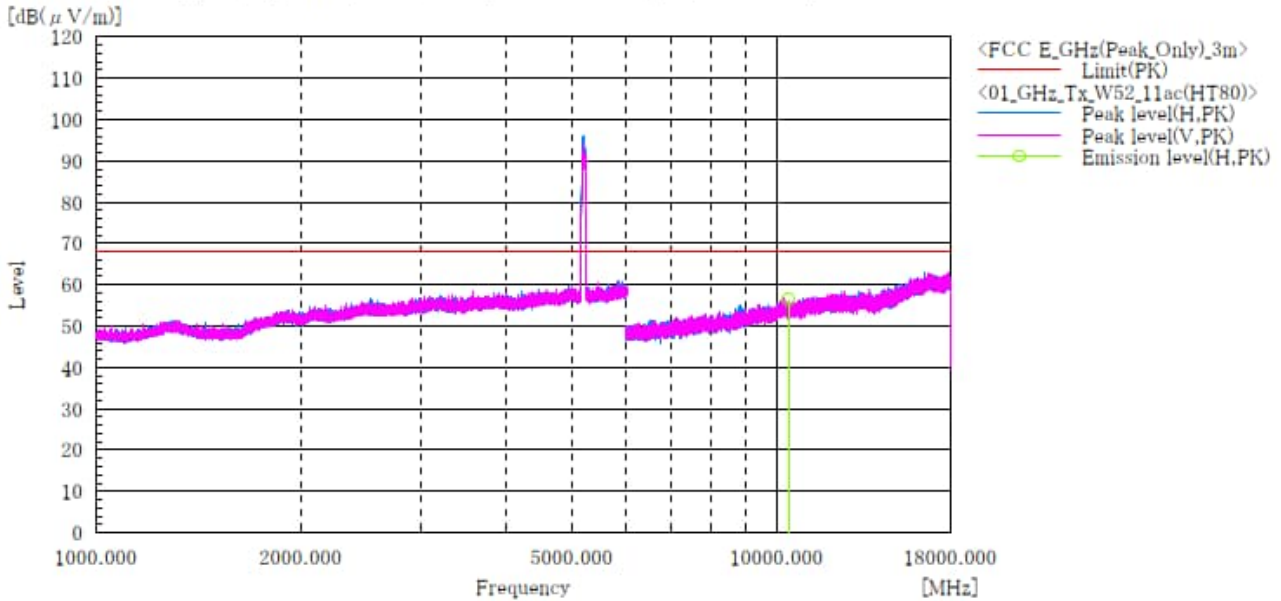
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11ac(VHT80)]
5.2 GHz Band
ABOVE 1GHz

| | | | |
|--------------|-------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart C |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:42_5210MHz |
| Test mode | : WLAN_W52_11ac(VHT80)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10420.000 | H | 45.3 | 11.3 | 56.6 | 68.2 | 11.6 | 100.0 | 262.0 |

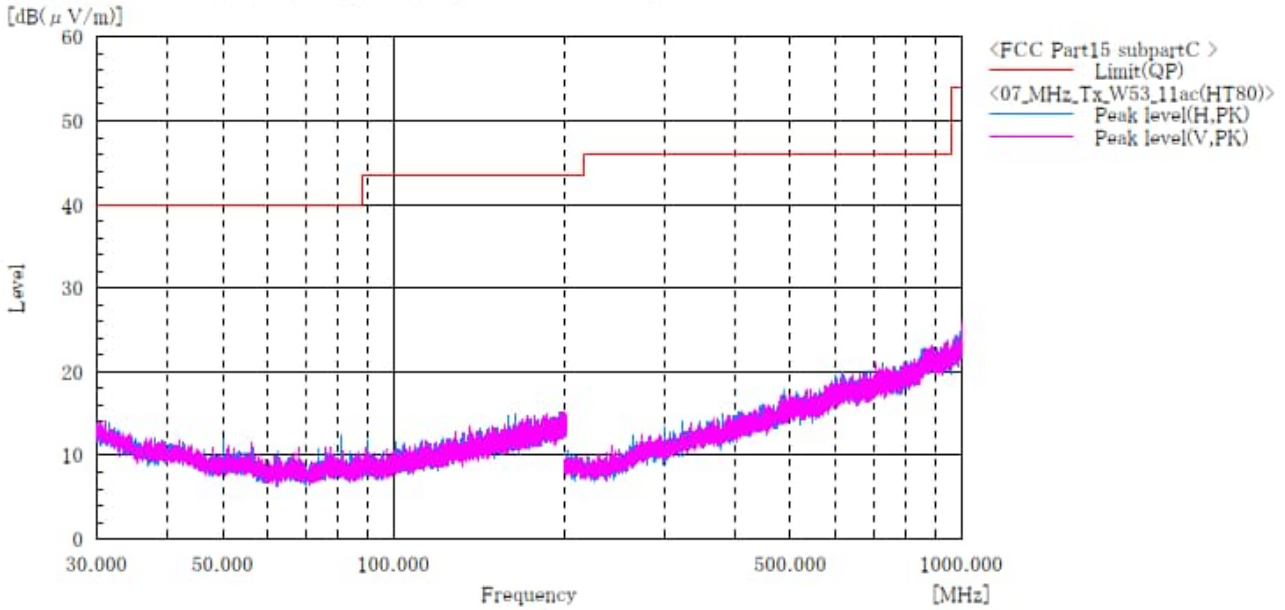
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11ac(VHT80)]
5.3 GHz Band
BELOW 1GHz

| | | | |
|--------------|---------------------------|-----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp, Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:58 5290MHz |
| Test mode | : 5GHz_W53_11ac(VHT80)_Tx | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

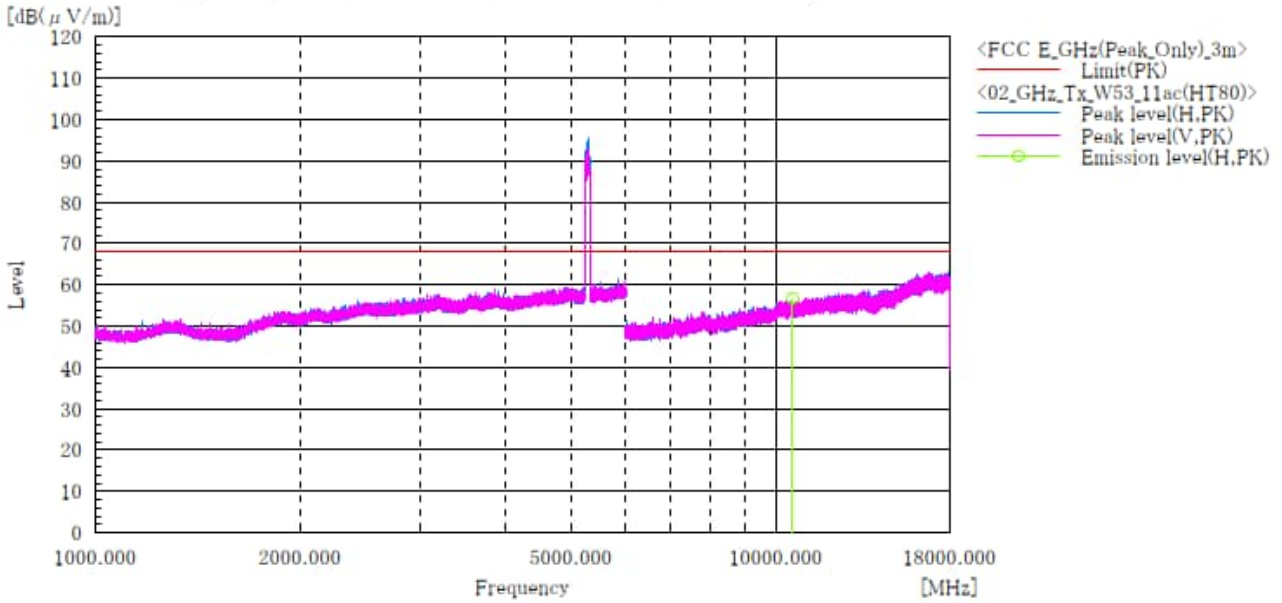
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11ac(VHT80)]
5.3 GHz Band
ABOVE 1GHz

| | | | |
|--------------|-------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:58_5290MHz |
| Test mode | : WLAN_W53_11ac(VHT80)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|----------------|----------------------|---------------------|----------------|-------------|-----------|
| 1 | 10580.000 | H | 45.5 | 11.2 | 56.7 | 68.2 | 11.5 | 100.0 | 53.0 |

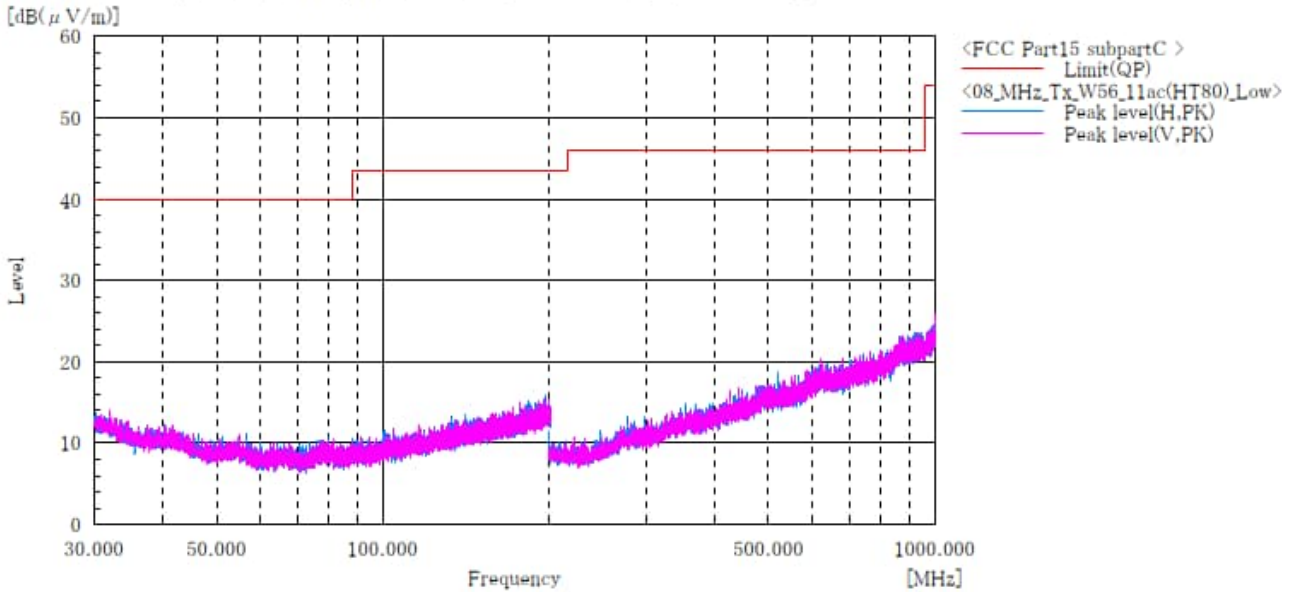
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel Low
BELOW 1GHz

| | | | |
|--------------|----------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp,Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:106 5530MHz |
| Test mode | : 5GHz_W56_11ac(VHT80)_Tx_ch:Low | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle | Remark |
|-----|---------------|-----------|--------|-------|--------|
| | [MHz] | [dB(1/m)] | [cm] | [°] | |

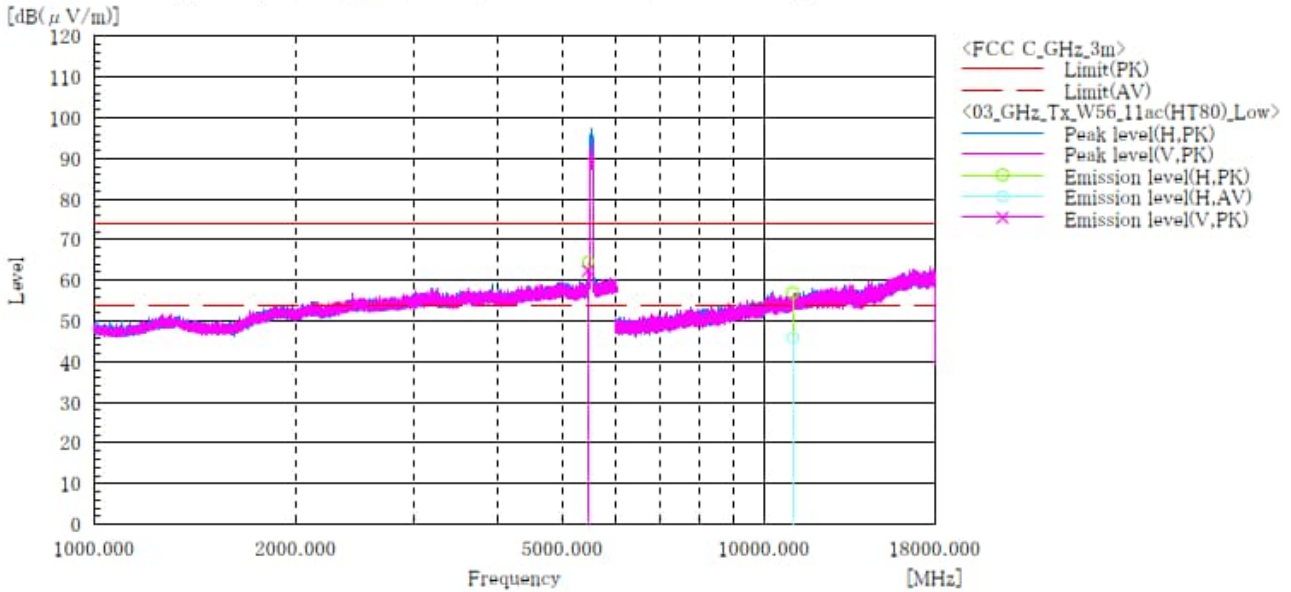
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

| | | | |
|--------------|-------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart C |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:106_5530MHz |
| Test mode | : WLAN_W56_11ac(VHT80)_Tx_Low | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 5467.200 | H | 53.2 | | 11.4 | 64.6 | | 68.2 | 54.0 | 3.6 | | 100.0 | 135.0 |
| 2 | 5463.800 | V | 51.0 | | 11.4 | 62.4 | | 68.2 | 54.0 | 5.8 | | 100.0 | 74.0 |
| 3 | 11060.000 | H | 45.2 | 34.0 | 11.9 | 57.1 | 45.9 | 74.0 | 54.0 | 16.9 | 8.1 | 100.0 | 189.0 |

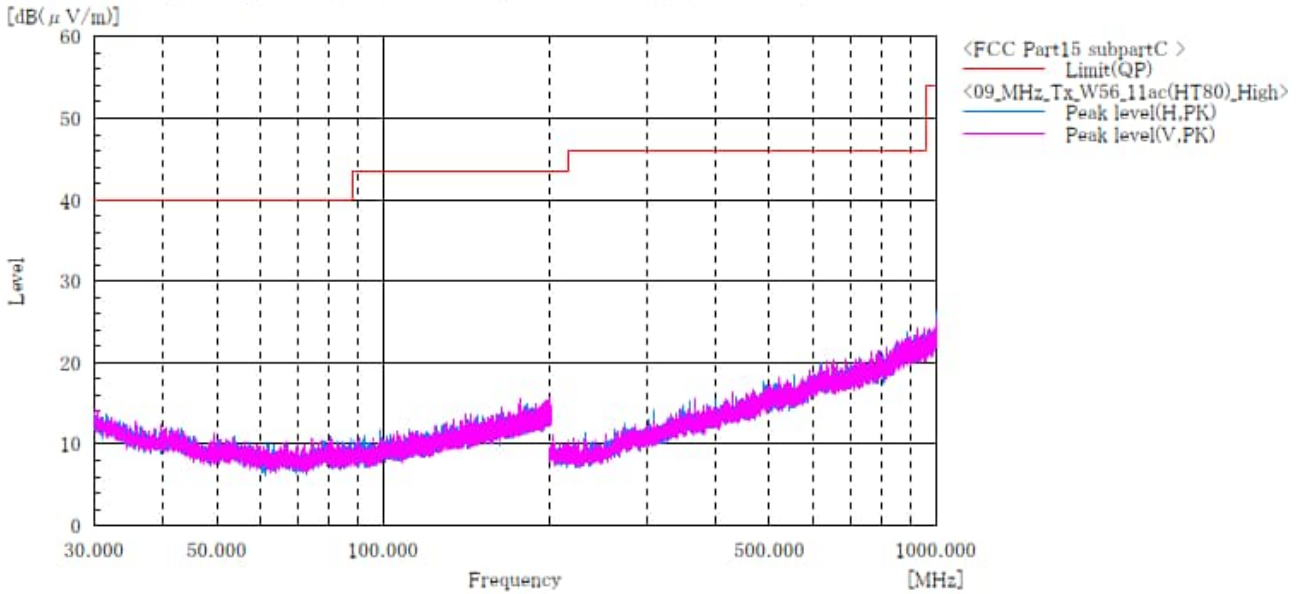
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|-----------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Sajto |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:122 5610MHz |
| Test mode | : 5GHz_W56_11ac(VHT80)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|---------------|--------|
|-----|------------------------|------------------|----------------|---------------|--------|

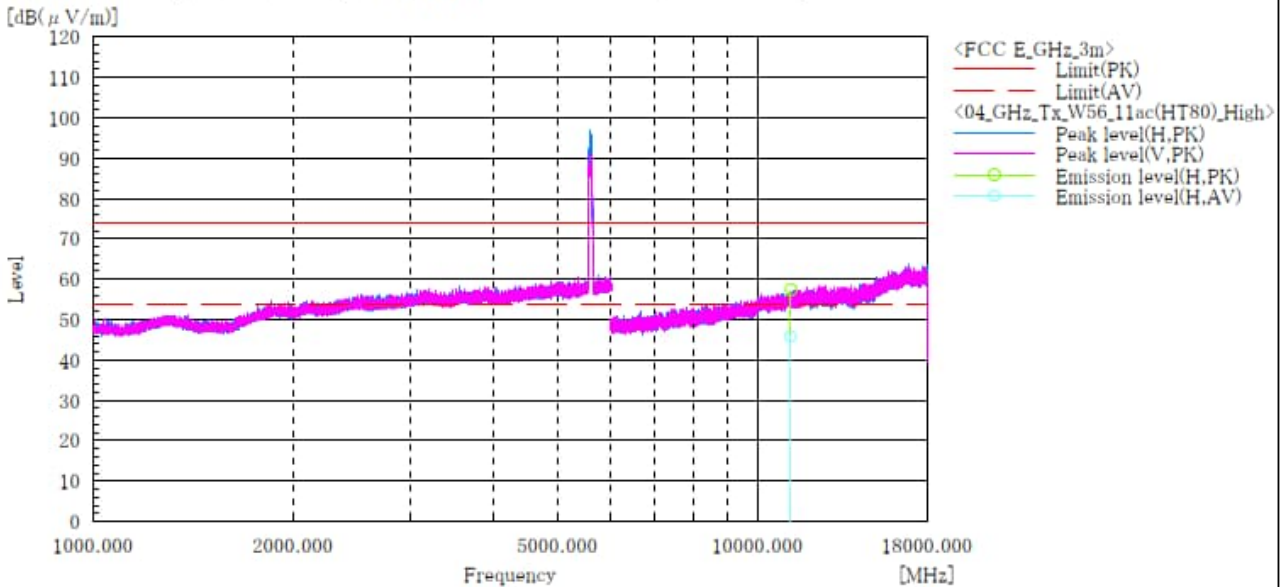
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|--------------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:122_5610MHz |
| Test mode | : WLAN_W56_11ac(VHT80)_Tx_High | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c. f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|----------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11220.000 | H | 45.5 | 33.9 | 12.0 | 57.5 | 45.9 | 74.0 | 54.0 | 16.5 | 8.1 | 100.0 | 129.0 |

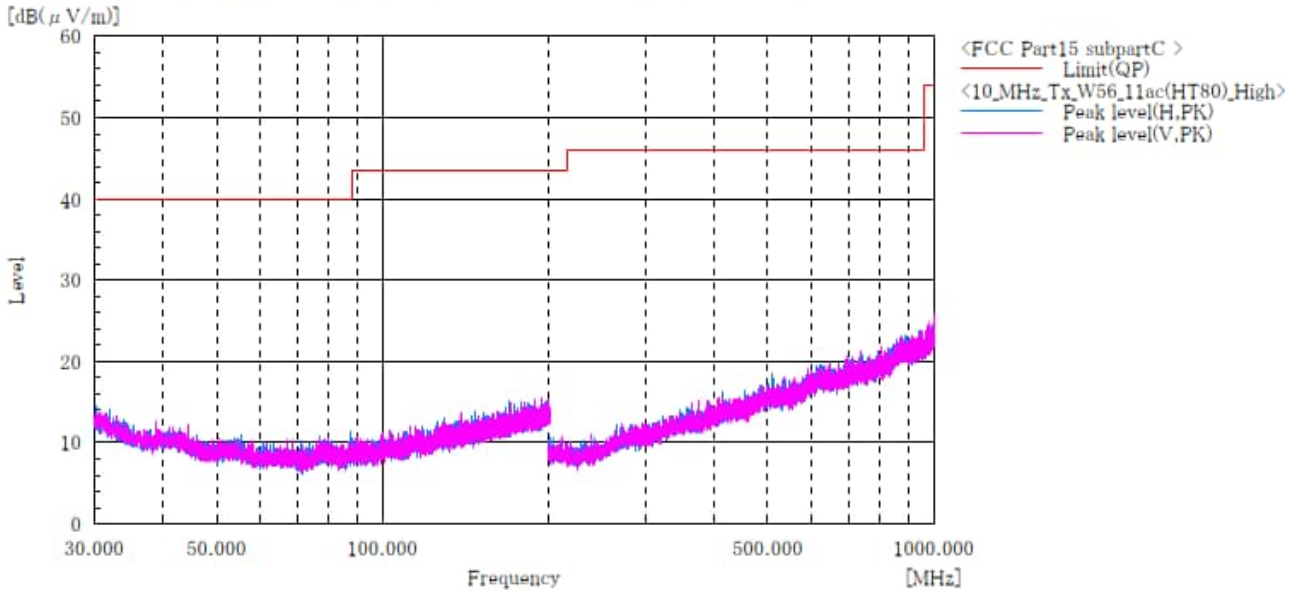
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel High
BELOW 1GHz

| | | | |
|--------------|-----------------------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : K.Saito |
| Model No. | : EB1146 | Temp.Hum | : 21.2[°C] 47.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:138 5690MHz |
| Test mode | : 5GHz_W56_11ac(VHT80)_Tx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|---------------|--------|
|-----|------------------------|------------------|----------------|---------------|--------|

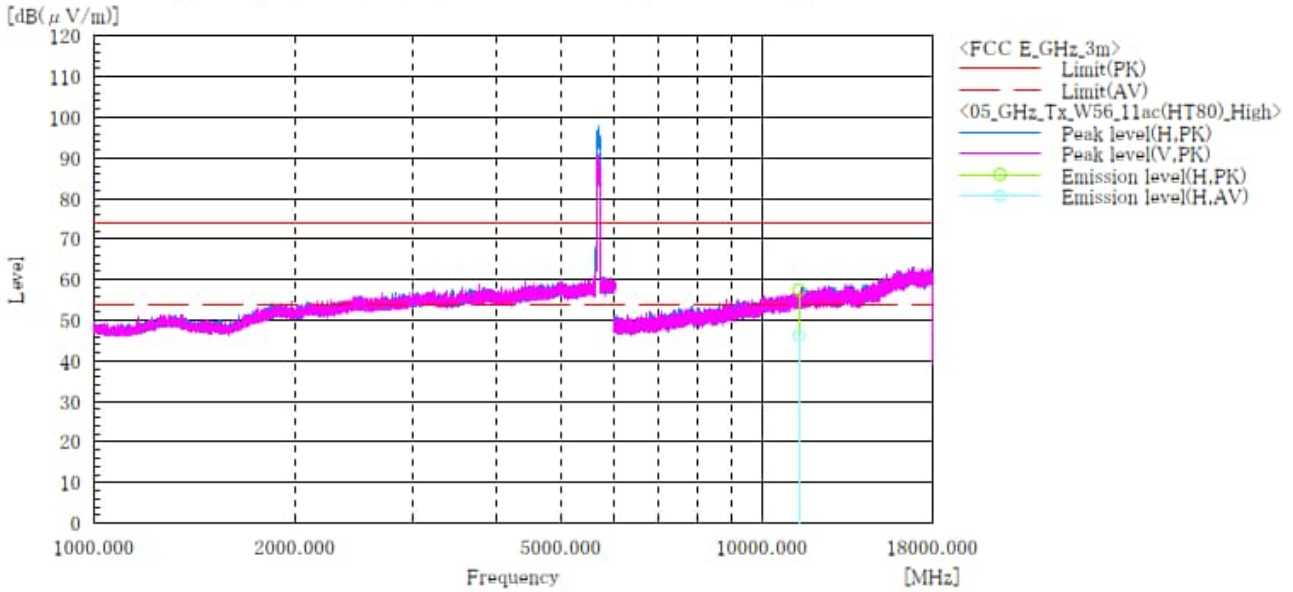
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



[11ac(VHT80)]
5.6 GHz Band / Channel High
ABOVE 1GHz

| | | | |
|--------------|--------------------------|--------------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : C.Kanno |
| Model No. | : EB1146 | Temp.Hum.Atm | : 22.1[°C] 40.4[%] |
| Serial No. | : 354663600011206 | Note1 | : ch:138_5690MHz |
| Test mode | : WLAN_W56_11ac(HT80)_Tx | Note2 | : |



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Result AV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin AV [dB] | Height [cm] | Angle [°] |
|-----|-----------------|-----|---------------------|---------------------|---------------|----------------------|----------------------|---------------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | 11380.000 | H | 45.3 | 34.0 | 12.2 | 57.5 | 46.2 | 74.0 | 54.0 | 16.5 | 7.8 | 100.0 | 88.0 |

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



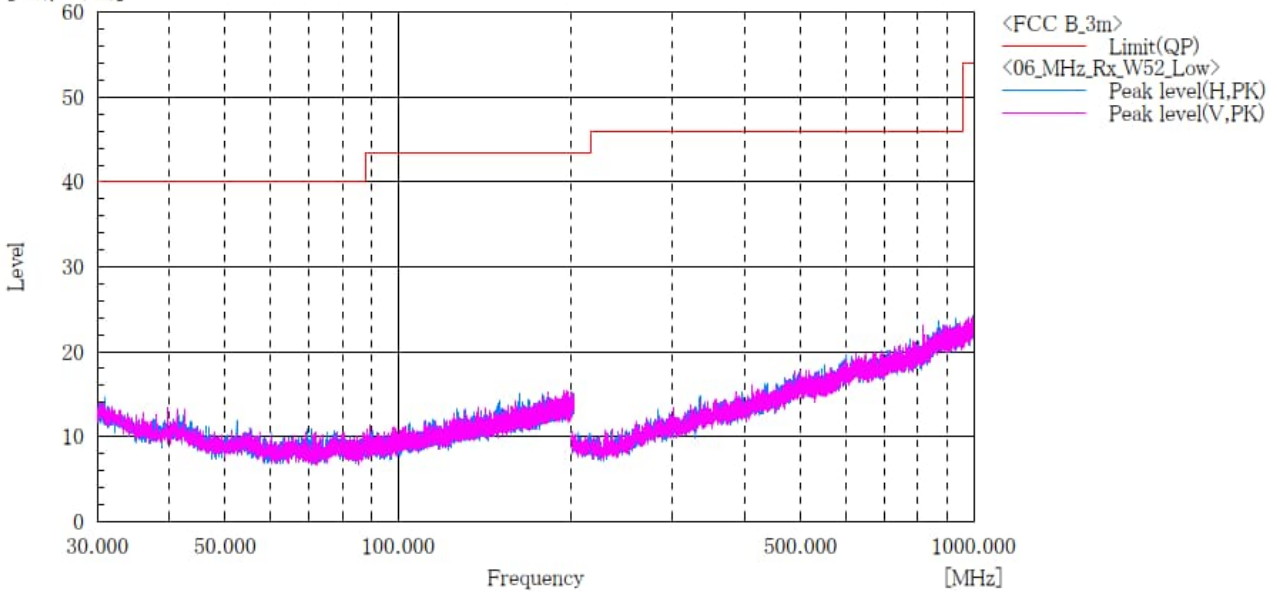
Receive mode

**5.2 GHz Band / Channel Low
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W52_Rx_ch:Low

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum : 21.3[°C] 48.3[%]
 Note1 : CH:36 5180MHz
 Note2 :

[dB(μV/m)]



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|---------------|
|-----|------------------------|------------------|----------------|---------------|

Note:

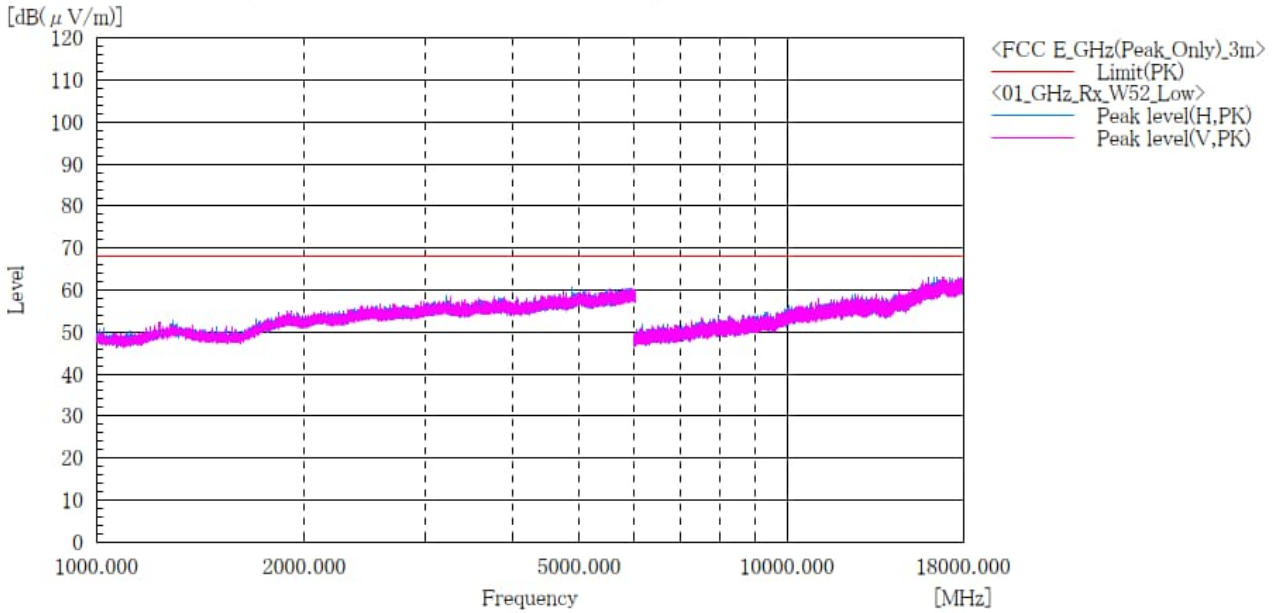
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.2 GHz Band / Channel Low
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W52_11a_Rx_Low

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 21.9[°C] 30.6[%]
 Note1 : ch:36_5180MHz
 Note2 :



Final Result

| No. | Frequency [MHz] | (P) | c.f | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|-----|-------------|-----------|--------|
|-----|-----------------|-----|-----|-------------|-----------|--------|

Note:

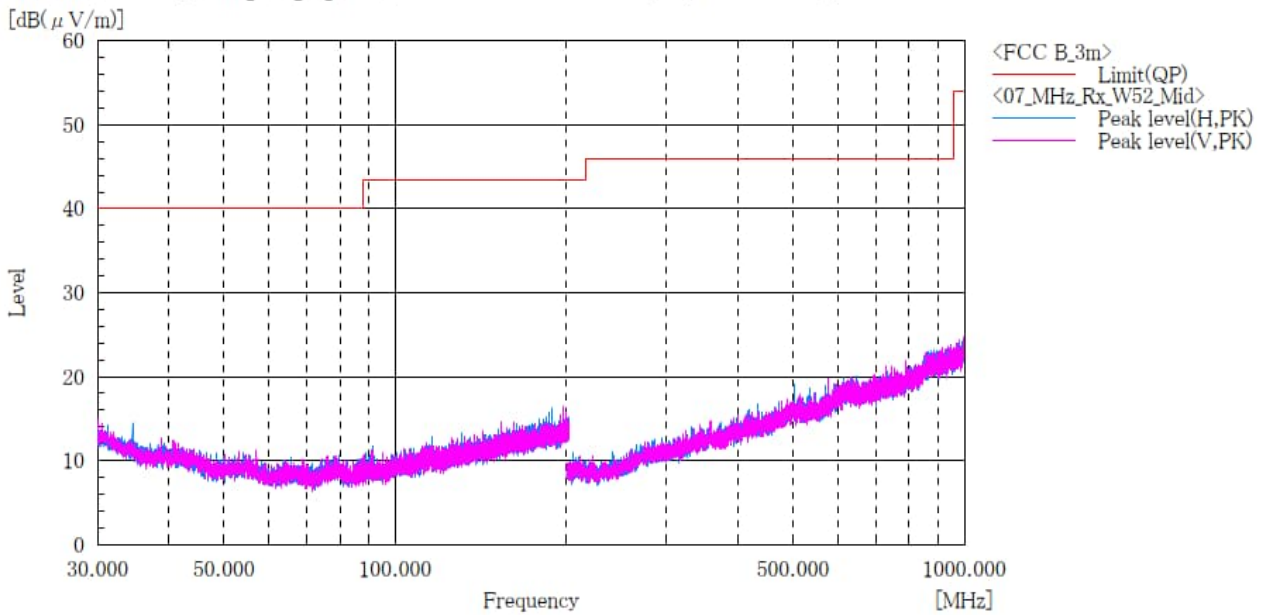
- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
- No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**5.2 GHz Band / Channel Mid
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W52_Rx_ch:Mid

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum : 21.3[°C] 48.3[%]
 Note1 : CH:40 5200MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

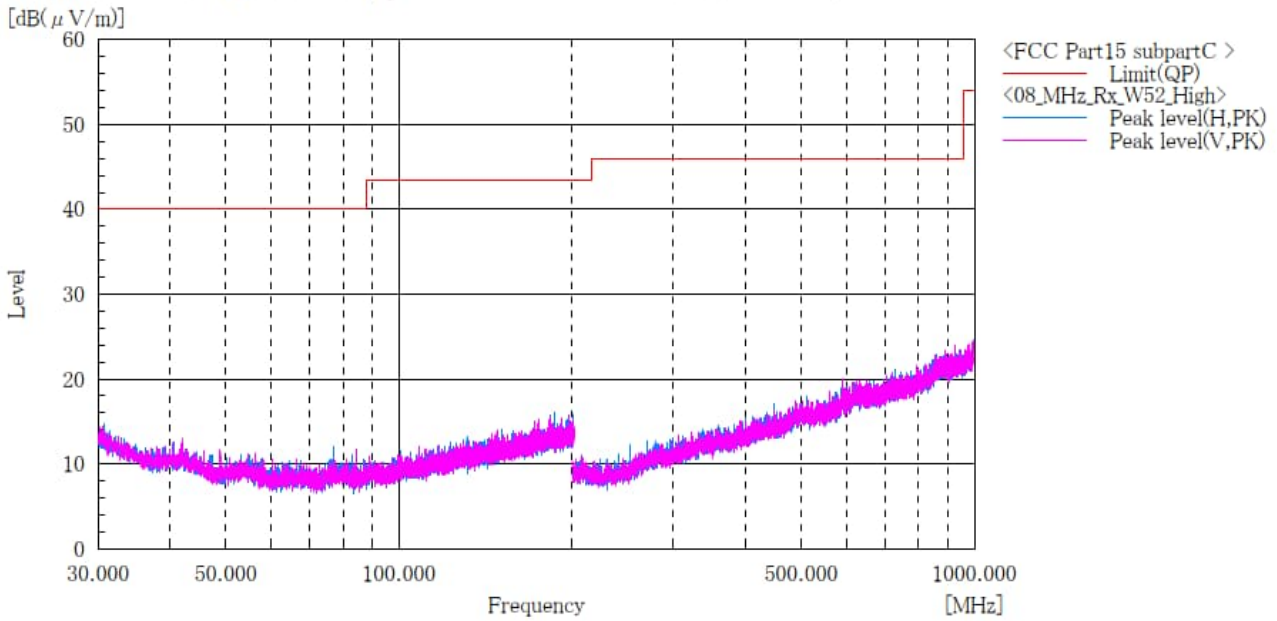
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.2 GHz Band / Channel High
BELOW 1GHz**

| | | | |
|--------------|-----------------------|----------|-------------------------|
| Company name | : KYOCERA Corporation | Standard | : FCC Part.15 subpart E |
| EUT | : Mobile Phone | Operator | : T.Seino |
| Model No. | : EB1146 | Temp,Hum | : 23.5[°C] 32.5[%] |
| Serial No. | : 354663600011206 | Note1 | : CH:48 5240MHz |
| Test mode | : 5GHz_W52_Rx_ch:High | Note2 | : |



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

Note:

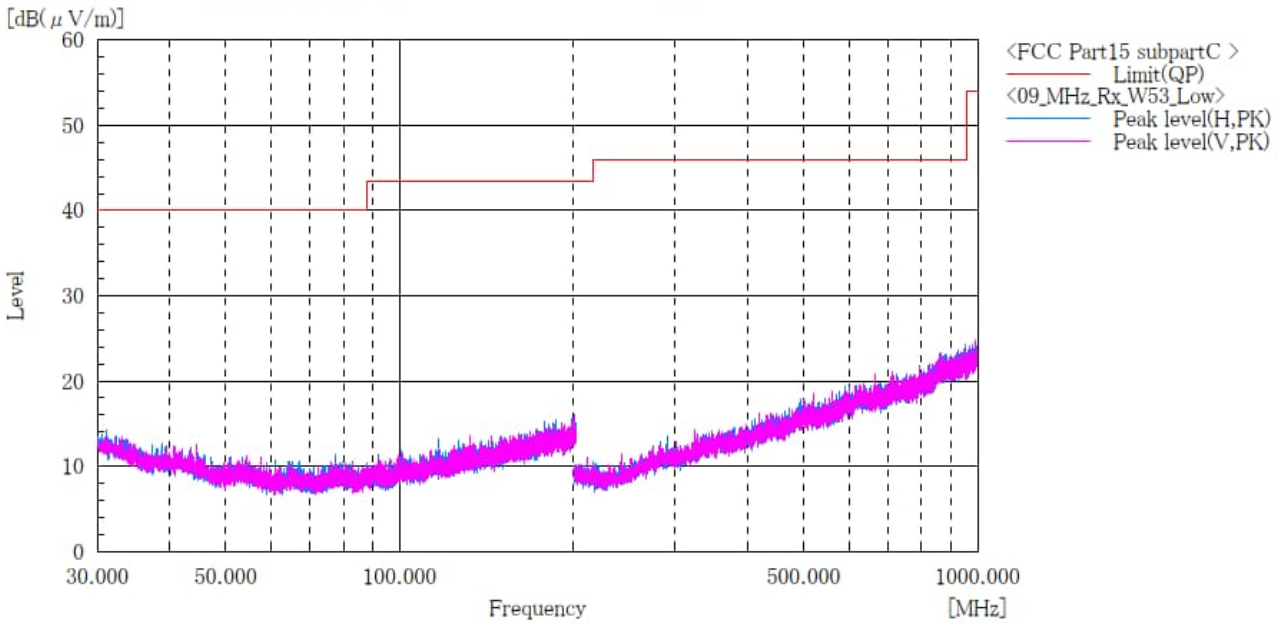
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**5.3 GHz Band / Channel Low
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W53_Rx_ch:Low

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum : 23.5[°C] 32.5[%]
 Note1 : CH:52 5260MHz
 Note2 :



Final Result

| No. | Frequency (P) | c.f | Height | Angle |
|-----|---------------|-----------|--------|-------|
| | [MHz] | [dB(1/m)] | [cm] | [°] |

Note:

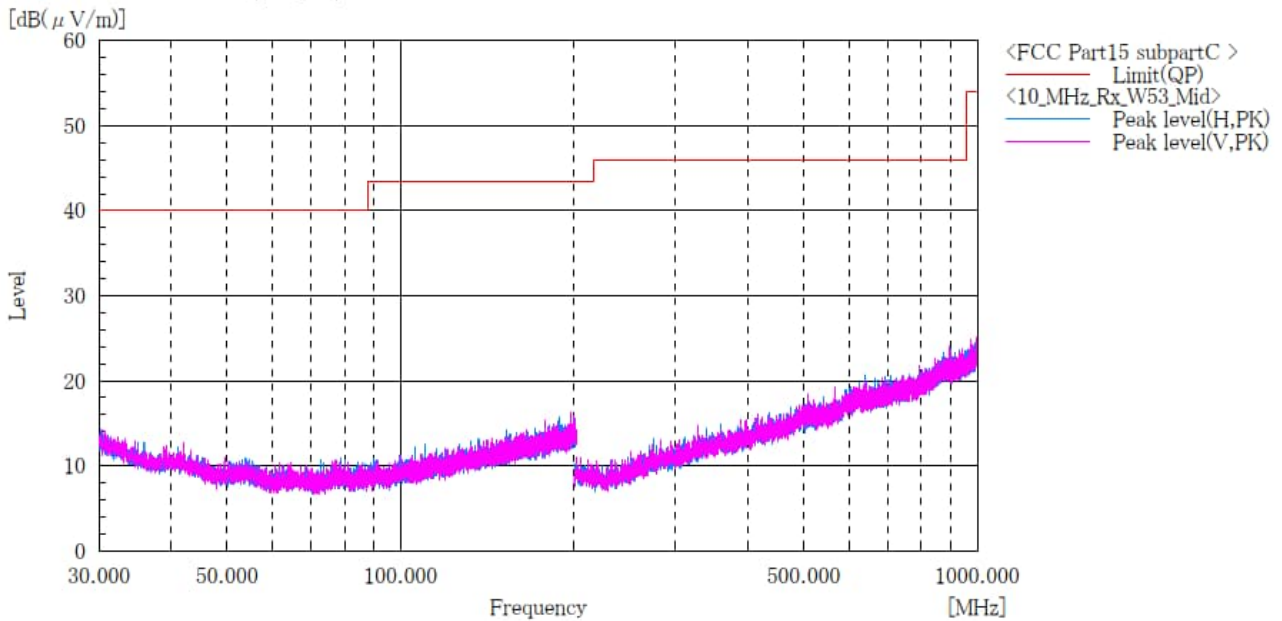
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.3 GHz Band / Channel Mid
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W53_Rx_ch:Mid

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum : 23.5[°C] 32.5[%]
 Note1 : CH:56 5280MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c. f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|-------------------|----------------|---------------|
|-----|------------------------|-------------------|----------------|---------------|

Note:

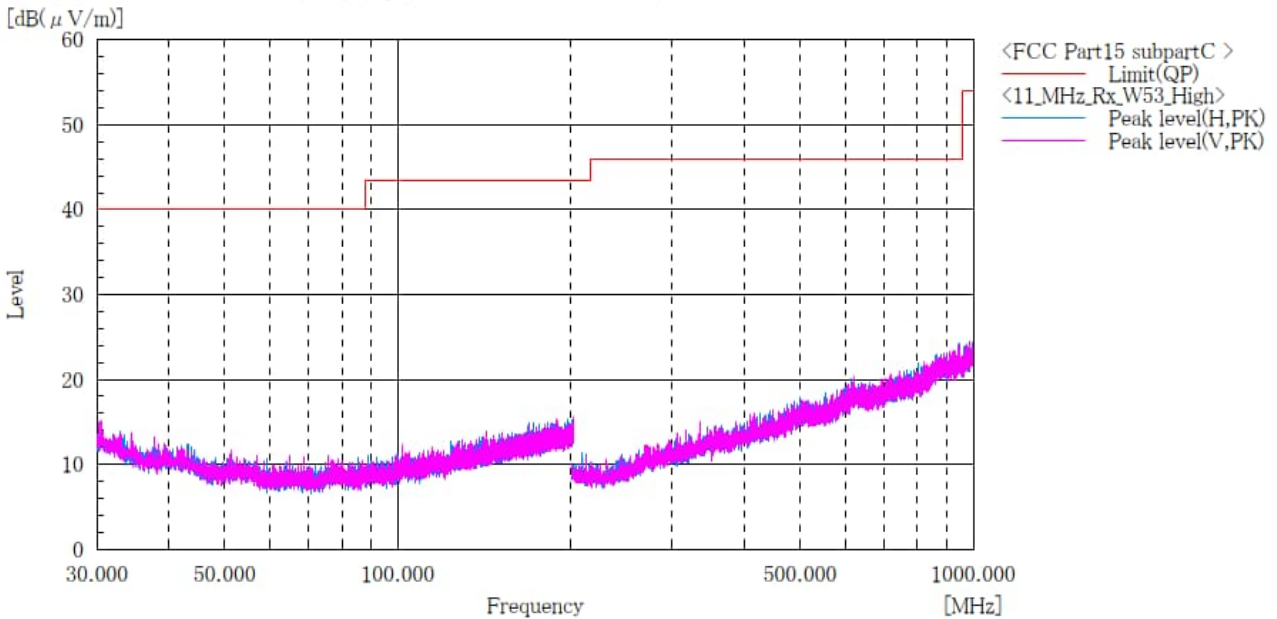
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.3 GHz Band / Channel High
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W53_Rx_ch:High

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum : 23.5[°C] 32.5[%]
 Note1 : CH:64 5320MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|---------------|
|-----|------------------------|------------------|----------------|---------------|

Note:

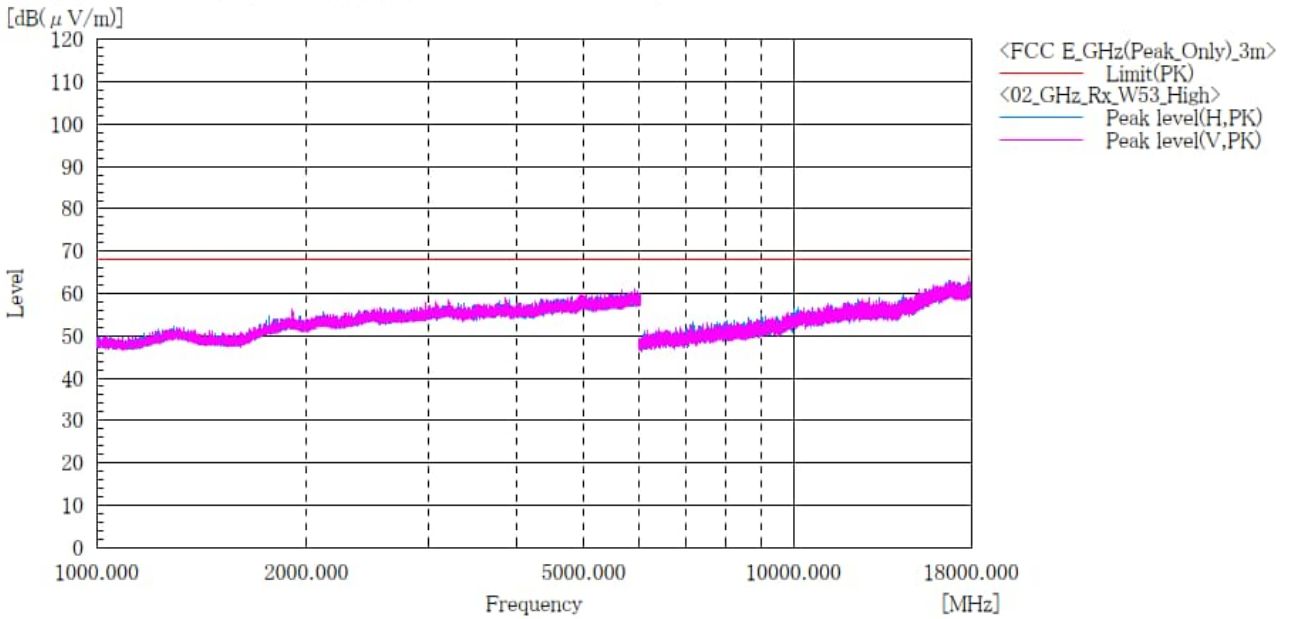
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.3 GHz Band / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W53_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp.,Hum.,Atm : 21.9[°C] 30.6[%]
 Note1 : ch:64_5320MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|---------------|--------|
|-----|------------------------|------------------|----------------|---------------|--------|

Note:

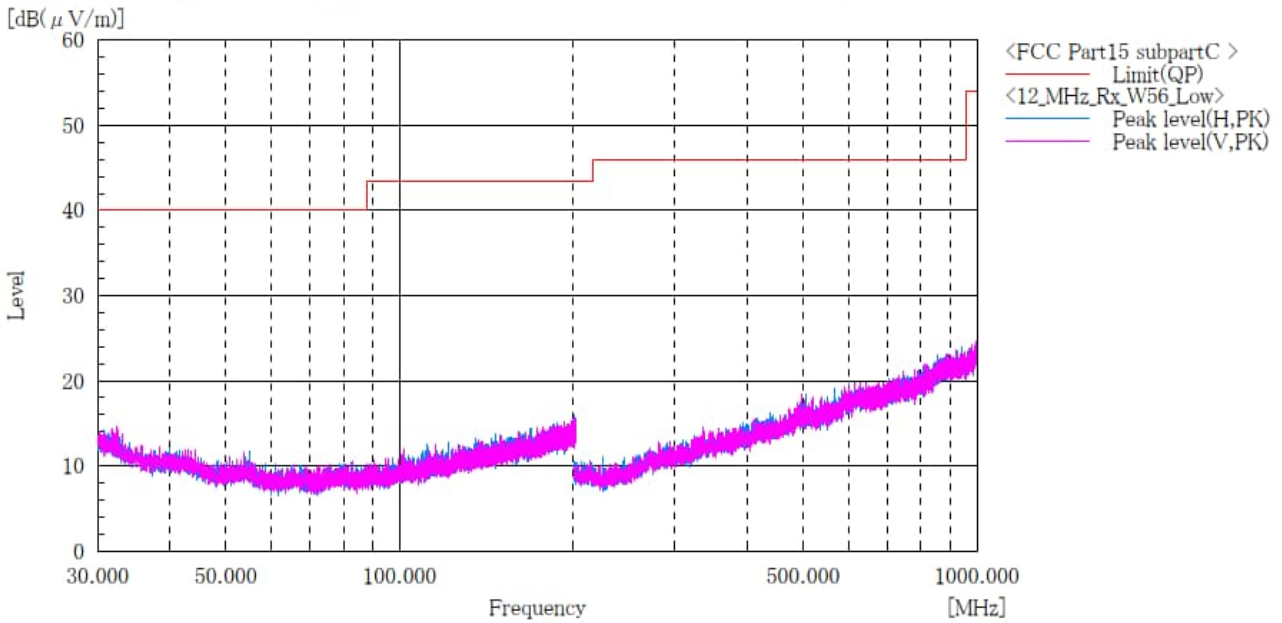
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**5.6 GHz Band / Channel Low
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W56_Rx_Low

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum,Atm : 23.5[°C] 32.5[%]
 Note1 : Ch:100_5500MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c. f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|-------------------|----------------|--------------|
| | | | | |

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

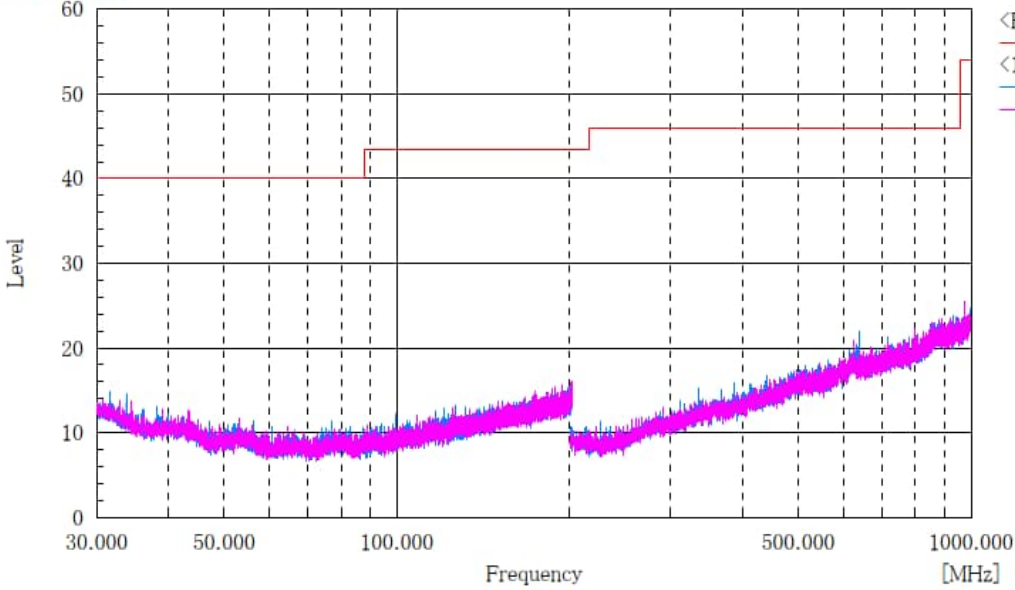


**5.6 GHz Band / Channel Mid
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W56_Rx_Mid

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum,Atm : 23.5[°C] 32.5[%]
 Note1 : Ch:116_5580MHz
 Note2 :

[dB(μV/m)]



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

Note:

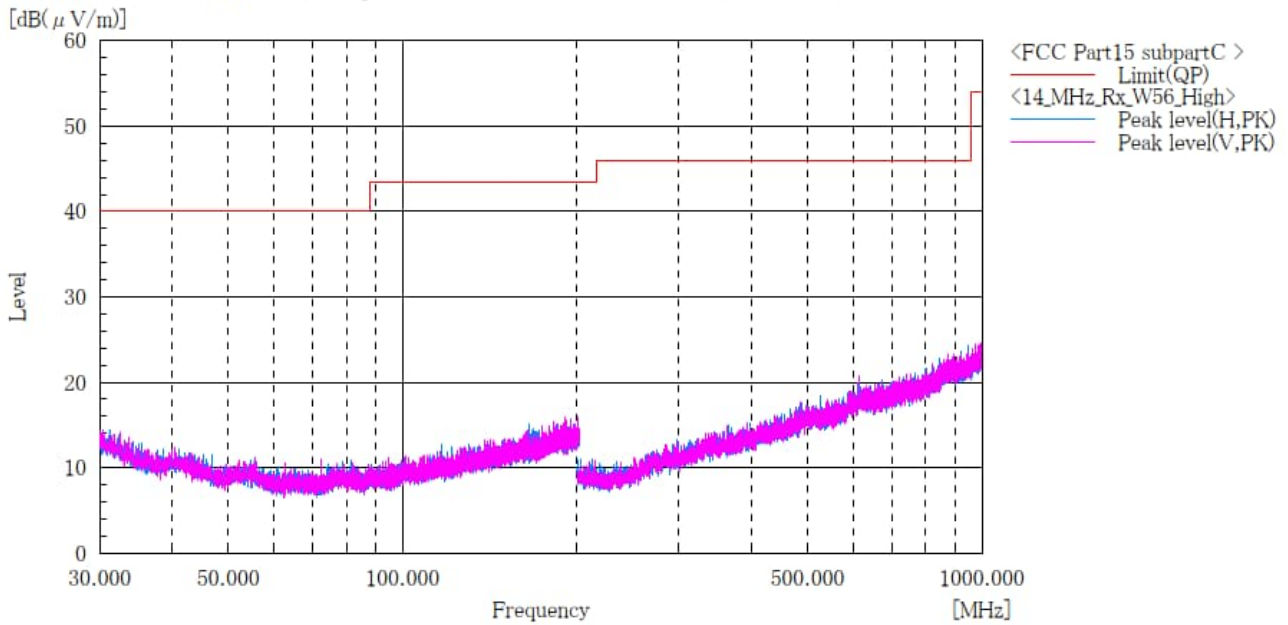
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.6 GHz Band / Channel High
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W56_Rx_High

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum,Atm : 23.5[°C] 32.5[%]
 Note1 : Ch:140_5700MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

Note:

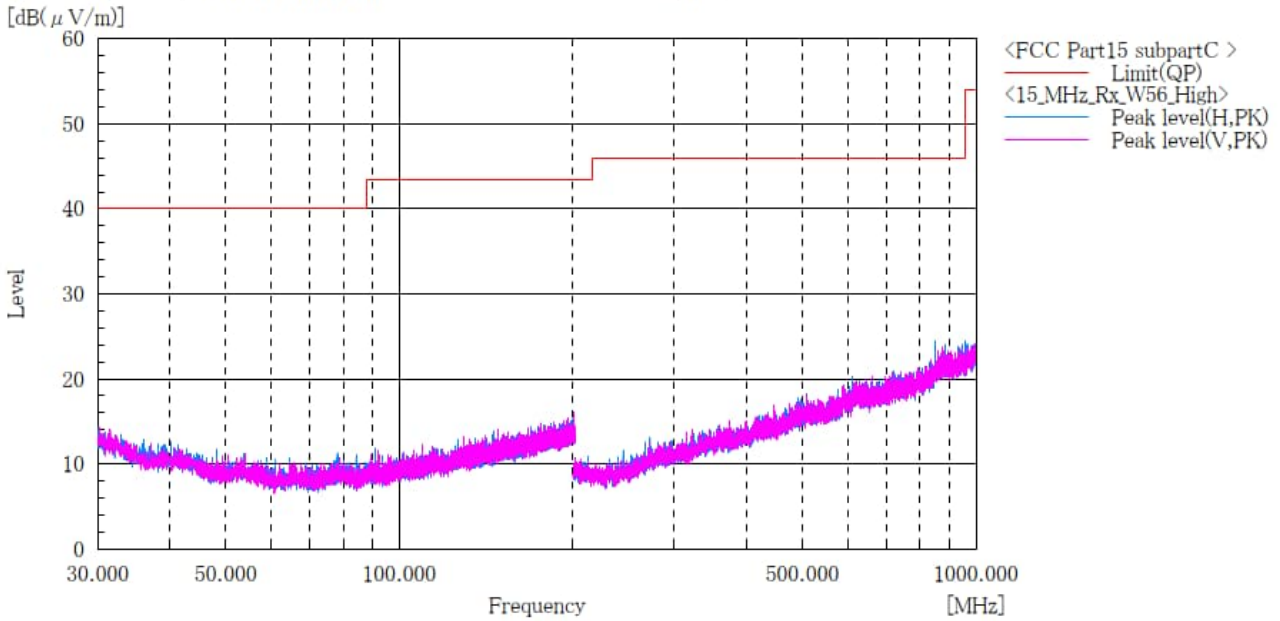
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.6 GHz Band / Channel High
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : 5GHz_W56_Rx_High

Standard : FCC Part.15 subpartE
 Operator : T.Seino
 Temp,Hum,Atm : 23.5[°C] 32.5[%]
 Note1 : Ch:144,5720MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] |
|-----|------------------------|------------------|----------------|--------------|
|-----|------------------------|------------------|----------------|--------------|

Note:

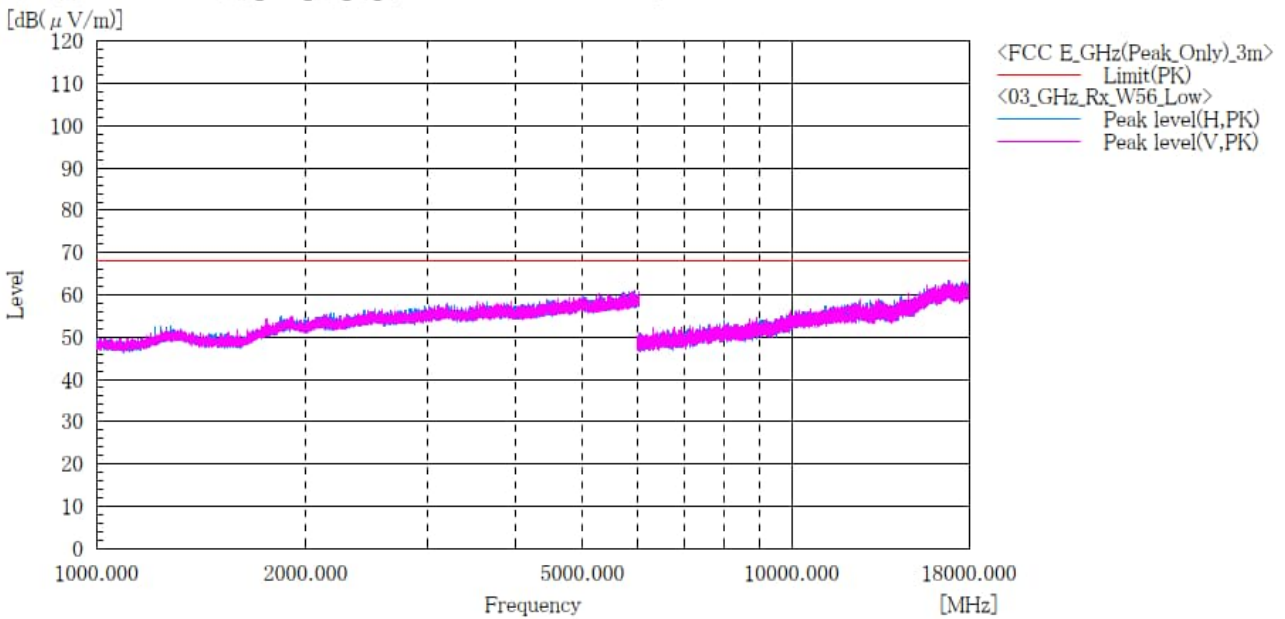
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.6 GHz Band / Channel Low
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W56_11a_Rx_Low

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 21.9[°C] 30.6[%]
 Note1 : ch:100_5500MHz
 Note2 :



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

Note:

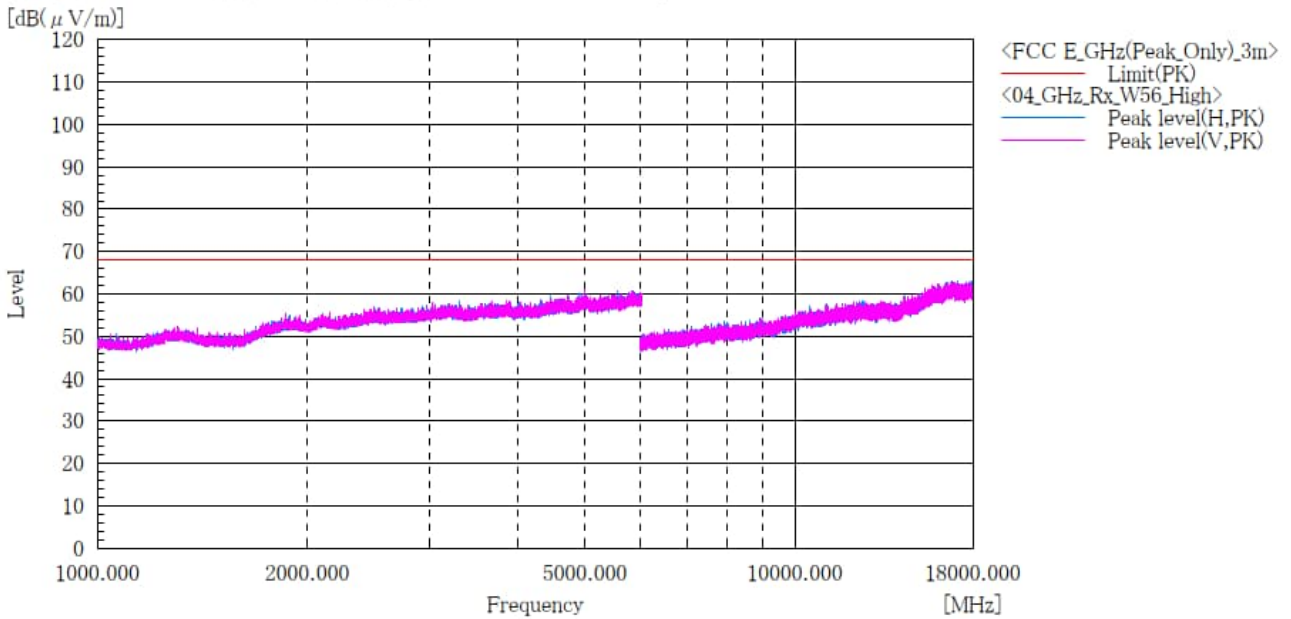
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**5.6 GHz Band / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W56_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 21.9[°C] 30.6[%]
 Note1 : ch:140_5700MHz
 Note2 :



Final Result

| No. | Frequency [MHz] | (P) | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------|-------------|-----------|--------|
|-----|-----------------|-----|---------------|-------------|-----------|--------|

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

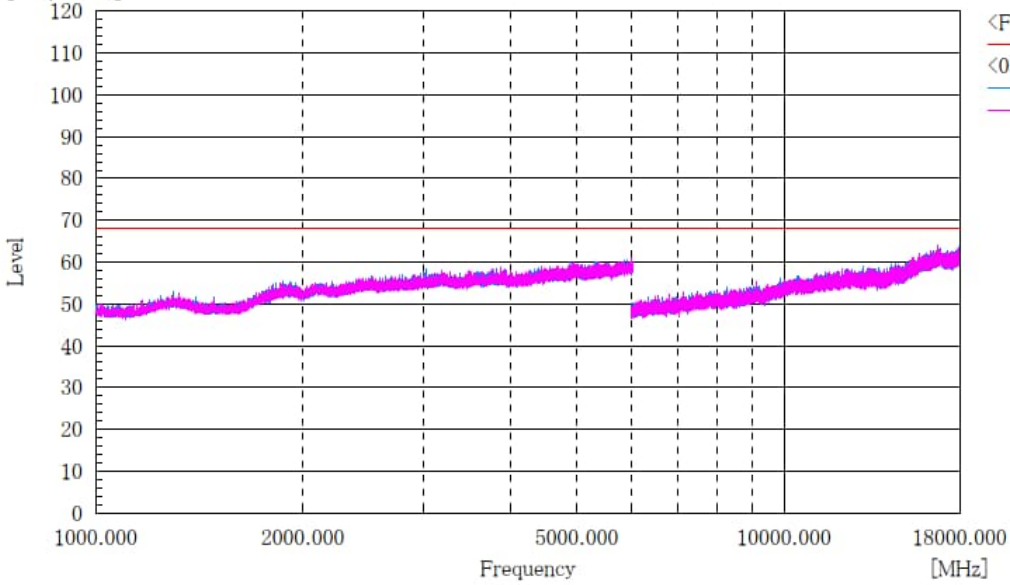


**5.6 GHz Band / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_W56_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 21.9[°C] 30.6[%]
 Note1 : ch:144_5720MHz
 Note2 :

[dB(μV/m)]



Final Result

| No. | Frequency (P) [MHz] | c.f [dB(1/m)] | Height [cm] | Angle [°] | Remark |
|-----|------------------------|------------------|----------------|--------------|--------|
|-----|------------------------|------------------|----------------|--------------|--------|

Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
- No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

4.5 Frequency Stability

4.5.1 Measurement procedure

[FCC 15.407(g)]

The EUT was placed of an inside of a constant temperature chamber as the temperature in the chamber was varied between -30°C and $+60^{\circ}\text{C}$. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channels center frequency was recorded.

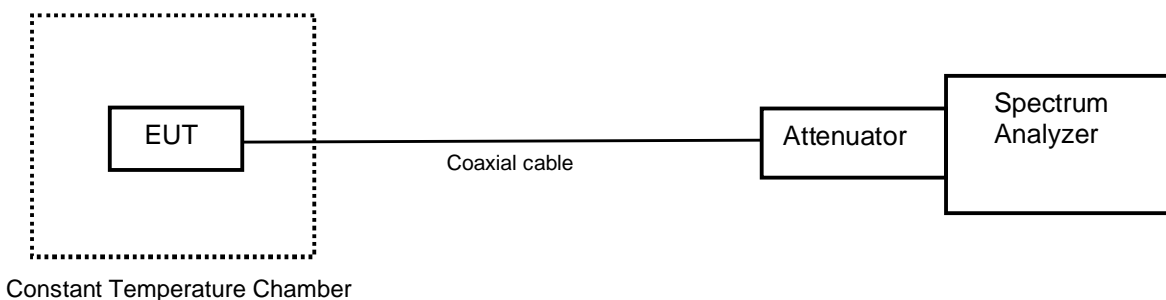
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.5.2 Limit

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



Japan

4.5.3 Measurement result

Date : 9-November-2022
Temperature : 22.0 [°C]
Humidity : 37.3 [%]
Test place : Shielded room No.4

Test engineer : Kazunori Saito



**[IEEE802.11a]
Channel: 36 (5180 MHz)**

| Power Supply | Temperature | Measurements Frequency (startup) | Frequency Tolerance (startup) | Measurements Frequency (2mins) | Frequency Tolerance (2mins) | Measurements Frequency (5mins) | Frequency Tolerance (5mins) | Measurements Frequency (10mins) | Frequency Tolerance (10mins) |
|--------------|-------------|----------------------------------|-------------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|---------------------------------|------------------------------|
| [V] | [°C] | [Hz] | [ppm] | [Hz] | [ppm] | [Hz] | [ppm] | [Hz] | [ppm] |
| 3.87 | 25(Ref.) | 5179993803 | 0.0000000 | 5180010255 | 3.17606558 | 5180015522 | 4.19286216 | 5180015497 | 4.18803590 |
| | 60 | 5179970371 | -4.52355754 | 5179984933 | -1.71235726 | 5179997864 | 0.78397777 | 5179994626 | 0.15888050 |
| | 50 | 5179995541 | 0.33552164 | 5179982121 | -2.25521505 | 5179996830 | 0.58436363 | 5179990252 | -0.68552206 |
| | 40 | 5179981798 | -2.31757034 | 5179977833 | -3.08301527 | 5179995736 | 0.37316647 | 5179982445 | -2.19266672 |
| | 30 | 5180006258 | 2.40444303 | 5179989550 | -0.82104345 | 5179994124 | 0.06196919 | 5180006425 | 2.43668245 |
| | 20 | 5180025402 | 6.10020035 | 5180026767 | 6.36371418 | 5180042683 | 9.43630473 | 5180014781 | 4.04981179 |
| | 10 | 5180047022 | 10.27395051 | 5180043919 | 9.67491505 | 5180043261 | 9.54788787 | 5180009111 | 2.95521589 |
| | 0 | 5180023746 | 5.78050885 | 5180036882 | 8.31641922 | 5180049592 | 10.77009010 | 5180043381 | 9.57105392 |
| | -10 | 5180033963 | 7.75290503 | 5180045177 | 9.91777248 | 5180024418 | 5.91023873 | 5180054995 | 11.81314155 |
| | -20 | 5180047478 | 10.36198151 | 5180040290 | 8.97433506 | 5180057013 | 12.20271730 | 5180060052 | 12.78939754 |
| | -30 | 5180018390 | 4.74653077 | 5180027530 | 6.51101165 | 5180023337 | 5.70155122 | 5180008219 | 2.78301491 |
| 3.48 | 25 | 5180027276 | 6.46197684 | 5180006811 | 2.51119992 | 5180034180 | 7.79479697 | 5180003626 | 1.89633431 |
| 4.26 | 25 | 5180014318 | 3.96042945 | 5180016396 | 4.36158823 | 5180038662 | 8.66004897 | 5180021030 | 5.25618389 |

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 100000

Channel: 64 (5320 MHz)

| Power Supply | Temperature | Measurements Frequency (startup) | Frequency Tolerance (startup) | Measurements Frequency (2mins) | Frequency Tolerance (2mins) | Measurements Frequency (5mins) | Frequency Tolerance (5mins) | Measurements Frequency (10mins) | Frequency Tolerance (10mins) |
|--------------|-------------|----------------------------------|-------------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|---------------------------------|------------------------------|
| [V] | [°C] | [Hz] | [ppm] | [Hz] | [ppm] | [Hz] | [ppm] | [Hz] | [ppm] |
| 3.87 | 25(Ref.) | 5319999560 | 0.0000000 | 5319995252 | -0.80968465 | 5319989471 | -1.89633888 | 5319995752 | -0.71569968 |
| | 60 | 5319989962 | -1.80404564 | 5319982249 | -3.25385779 | 5319979164 | -3.83374505 | 5319998225 | -0.25085002 |
| | 50 | 5319993626 | -1.11532378 | 5319981581 | -3.37942171 | 5319987645 | -2.23957199 | 5319980253 | -3.62904579 |
| | 40 | 5319989610 | -1.87021106 | 5319985913 | -2.56513593 | 5319985626 | -2.61908330 | 5319999709 | 0.02805245 |
| | 30 | 5319996415 | -0.59107561 | 5319986094 | -2.53111337 | 5319997158 | -0.45141395 | 5319994931 | -0.87002300 |
| | 20 | 5320000000 | 0.08279662 | 5320019060 | 3.66550369 | 5320015505 | 2.99727055 | 5320025836 | 4.93918800 |
| | 10 | 5320037556 | 7.14219570 | 5320000000 | 0.08279662 | 5320015911 | 3.07358634 | 5320030416 | 5.80009033 |
| | 0 | 5320035911 | 6.83298515 | 5320038910 | 7.39670700 | 5320028991 | 5.53223316 | 5320035586 | 6.77189492 |
| | -10 | 5320035657 | 6.78524079 | 5320041240 | 7.83467696 | 5320041151 | 7.81794764 | 5320031485 | 6.00103020 |
| | -20 | 5320030503 | 5.81644371 | 5320031085 | 5.92584222 | 5320040990 | 7.78768448 | 5320038679 | 7.35328595 |
| | -30 | 5320018715 | 3.60065406 | 5320011182 | 2.18467650 | 5320011607 | 2.26456372 | 5319998502 | -0.19878235 |
| 3.48 | 25 | 5319998392 | -0.21945904 | 5320001040 | 0.27828536 | 5320009520 | 1.87227046 | 5319993421 | -1.15385761 |
| 4.26 | 25 | 5319999508 | -0.00964831 | 5319998941 | -0.11626354 | 5320001931 | 0.44576658 | 5319989403 | -1.90912083 |

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 100000



Channel: 144 (5720 MHz)

| Power Supply [V] | Temperature [°C] | Measurements Frequency (startup) [Hz] | Frequency Tolerance (startup) [ppm] | Measurements Frequency (2mins) [Hz] | Frequency Tolerance (2mins) [ppm] | Measurements Frequency (5mins) [Hz] | Frequency Tolerance (5mins) [ppm] | Measurements Frequency (10mins) [Hz] | Frequency Tolerance (10mins) [ppm] |
|---------------------|---------------------|--|--|--|--------------------------------------|--|--------------------------------------|---|---------------------------------------|
| 3.87 | 25(Ref.) | 5720012119 | 0.0000000 | 5719999382 | -2.22673182 | 5720002749 | -1.63810842 | 5719991033 | -3.68635583 |
| | 60 | 5719981743 | -5.31047826 | 5719973607 | -6.73285287 | 5719985497 | -4.65418594 | 5719983425 | -5.01642294 |
| | 50 | 5719969551 | -7.44194227 | 5719960459 | -9.03144940 | 5719983519 | -4.99998941 | 5719969247 | -7.49508902 |
| | 40 | 5719972999 | -6.83914635 | 5719985245 | -4.69824179 | 5719992281 | -3.46817447 | 5719981127 | -5.41817034 |
| | 30 | 5719993821 | -3.19894427 | 5720001117 | -1.92342250 | 5719982740 | -5.13617793 | 5720006007 | -1.06852920 |
| | 20 | 5720025414 | 2.32429577 | 5719996683 | -2.69859568 | 5720027440 | 2.67849083 | 5720018217 | 1.06608166 |
| | 10 | 5720040357 | 4.93670283 | 5720026355 | 2.48880592 | 5720032028 | 3.48058703 | 5720034325 | 3.88215961 |
| | 0 | 5720023538 | 1.99632444 | 5720033679 | 3.76922278 | 5720029716 | 3.07639208 | 5720038195 | 4.55873160 |
| | -10 | 5720031764 | 3.43443328 | 5720028961 | 2.94439936 | 5720053974 | 7.31729219 | 5720043834 | 5.54456867 |
| | -20 | 5720031719 | 3.42656617 | 5720033233 | 3.69125092 | 5720045500 | 5.83582680 | 5720036043 | 4.18250862 |
| | -30 | 5720007252 | -0.85087232 | 5720017485 | 0.93810990 | 5720024072 | 2.08968089 | 5720040336 | 4.93303151 |
| 3.48 | 25 | 5719997370 | -2.57849104 | 5720008355 | -0.65804056 | 5720011744 | -0.06555930 | 5720005863 | -1.09370398 |
| 4.26 | 25 | 5720013160 | 0.18199262 | 5720013531 | 0.24685262 | 5720012176 | 0.00996501 | 5719996969 | -2.64859579 |

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

4.6 AC Power Line Conducted Emissions

4.6.1 Measurement procedure

[FCC 15.207]

Test was applied by following conditions.

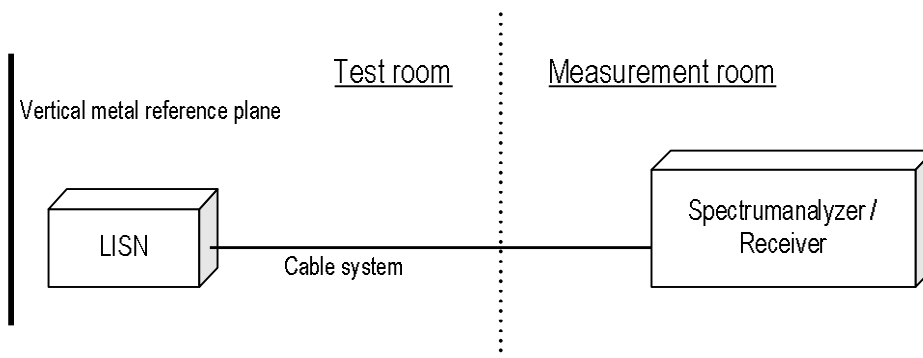
| | | |
|--------------------------------|---|---|
| Test method | : | ANSI C63.10 |
| Frequency range | : | 0.15 MHz to 30 MHz |
| Test place | : | 3m Semi-anechoic chamber |
| EUT was placed on | : | FRP table / (W) 2.0 × (D) 1.0 × (H) 0.8 m |
| Vertical Metal Reference Plane | : | (W) 2.0 × (H) 2.0 m, 0.4 m away from EUT |
| Test receiver setting | | |
| - Detector | : | Quasi-peak, Average |
| - Bandwidth | : | 9 kHz |

EUT and peripherals are connected to 50Ω/50μH Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



4.6.2 Calculation method

Emission level = Reading + (LISN. factor + Cable system loss)

Margin = Limit – Emission level

4.6.3 Limit

| Frequency [MHz] | Limit | |
|--------------------|-----------|-----------|
| | QP [dBuV] | AV [dBuV] |
| 0.15-0.5 | 66-56* | 56-46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

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

4.6.4 Test data

Date : 17-October-2022

Temperature : 21.3 [°C]

Humidity : 48.3 [%]

Test place : 3m Semi-anechoic chamber

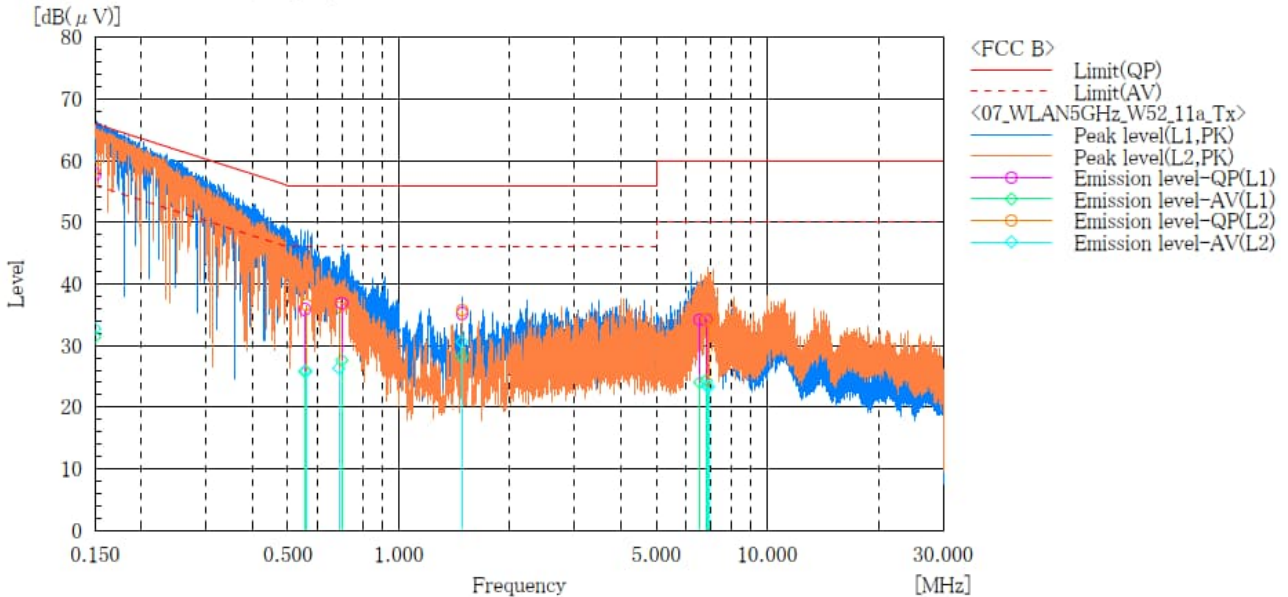
Test engineer :

Tadahiro Seino



[5.2 GHz Band]

| | |
|------------------------------------|----------------------------------|
| Company Name : KYOCERA Corporation | Standard : FCC Part.15 Subpart E |
| EUT : Mobile Phone | Operator : T.Seino |
| Model No. : EB1146 | Temp,Hum,Atm : 21.3[°C] 48.3[%] |
| Serial No. : 354663600011206 | Note1 : |
| Test mode : WLAN_11a_W52_Tx | Note2 : |



Final Result

--- L1 Phase ---

| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading CAV [dB(μV)] | c. f [dB] | Result QP [dB(μV)] | Result CAV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|-----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1 | 0.150 | 47.3 | 20.9 | 10.5 | 57.8 | 31.4 | 66.0 | 56.0 | 8.2 | 24.6 |
| 2 | 0.556 | 25.6 | 15.5 | 10.3 | 35.9 | 25.8 | 56.0 | 46.0 | 20.1 | 20.2 |
| 3 | 0.702 | 26.6 | 17.3 | 10.3 | 36.9 | 27.6 | 56.0 | 46.0 | 19.1 | 18.4 |
| 4 | 1.484 | 24.9 | 17.9 | 10.3 | 35.2 | 28.2 | 56.0 | 46.0 | 20.8 | 17.8 |
| 5 | 6.555 | 23.5 | 13.3 | 10.7 | 34.2 | 24.0 | 60.0 | 50.0 | 25.8 | 26.0 |
| 6 | 6.830 | 23.4 | 13.5 | 10.8 | 34.2 | 24.3 | 60.0 | 50.0 | 25.8 | 25.7 |

--- L2 Phase ---

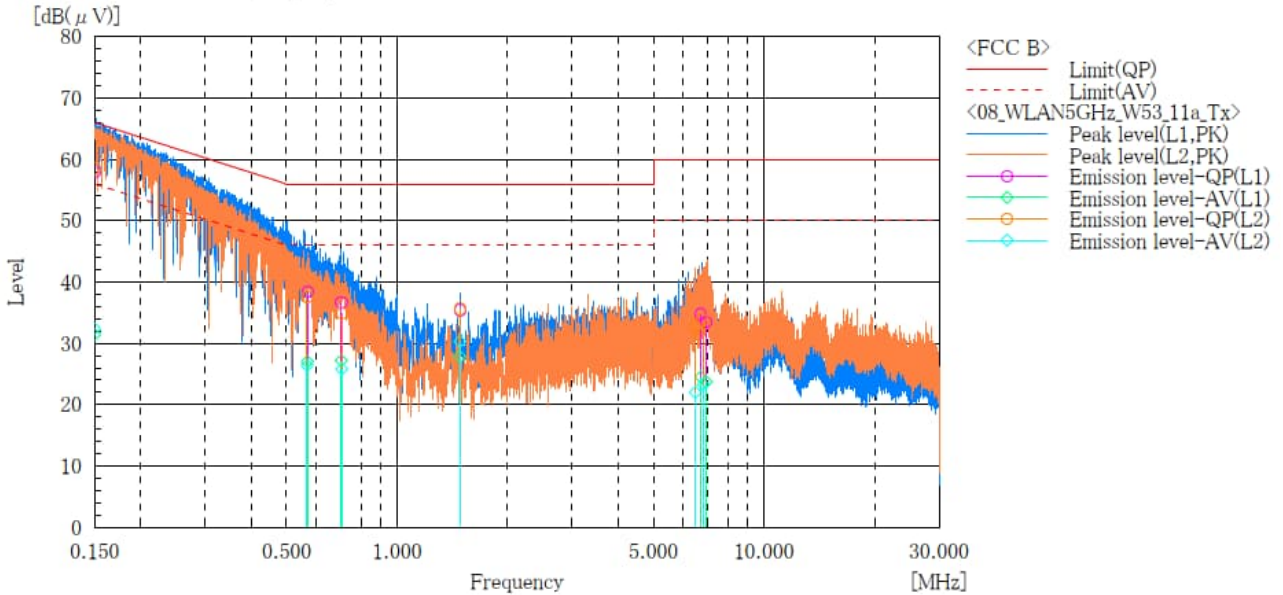
| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading CAV [dB(μV)] | c. f [dB] | Result QP [dB(μV)] | Result CAV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|-----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1 | 0.150 | 48.3 | 22.2 | 10.5 | 58.8 | 32.7 | 66.0 | 56.0 | 7.2 | 23.3 |
| 2 | 0.561 | 26.3 | 15.5 | 10.3 | 36.6 | 25.8 | 56.0 | 46.0 | 19.4 | 20.2 |
| 3 | 0.688 | 25.9 | 16.0 | 10.3 | 36.2 | 26.3 | 56.0 | 46.0 | 19.8 | 19.7 |
| 4 | 1.485 | 25.3 | 20.2 | 10.4 | 35.7 | 30.6 | 56.0 | 46.0 | 20.3 | 15.4 |
| 5 | 6.872 | 23.5 | 12.6 | 10.8 | 34.3 | 23.4 | 60.0 | 50.0 | 25.7 | 26.6 |
| 6 | 6.933 | 23.5 | 12.5 | 10.8 | 34.3 | 23.3 | 60.0 | 50.0 | 25.7 | 26.7 |



[5.3 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_11a_W53_Tx

Standard : FCC Part.15 Subpart E
 Operator : T.Seino
 Temp,Hum,Atm : 21.3[°C] 48.3[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

| No. | Frequency [MHz] | Reading | | c. f [dB] | Result | | Limit | | Margin | |
|-----|-----------------|-------------|--------------|-----------|-------------|--------------|-------------|-------------|---------|----------|
| | | QP [dB(μV)] | CAV [dB(μV)] | | QP [dB(μV)] | CAV [dB(μV)] | QP [dB(μV)] | AV [dB(μV)] | QP [dB] | CAV [dB] |
| 1 | 0.150 | 47.4 | 20.9 | 10.5 | 57.9 | 31.4 | 66.0 | 56.0 | 8.1 | 24.6 |
| 2 | 0.570 | 28.1 | 16.7 | 10.3 | 38.4 | 27.0 | 56.0 | 46.0 | 17.6 | 19.0 |
| 3 | 0.705 | 26.4 | 16.9 | 10.3 | 36.7 | 27.2 | 56.0 | 46.0 | 19.3 | 18.8 |
| 4 | 1.485 | 25.1 | 17.5 | 10.3 | 35.4 | 27.8 | 56.0 | 46.0 | 20.6 | 18.2 |
| 5 | 6.732 | 23.9 | 13.7 | 10.8 | 34.7 | 24.5 | 60.0 | 50.0 | 25.3 | 25.5 |
| 6 | 6.968 | 22.7 | 12.9 | 10.8 | 33.5 | 23.7 | 60.0 | 50.0 | 26.5 | 26.3 |

--- L2 Phase ---

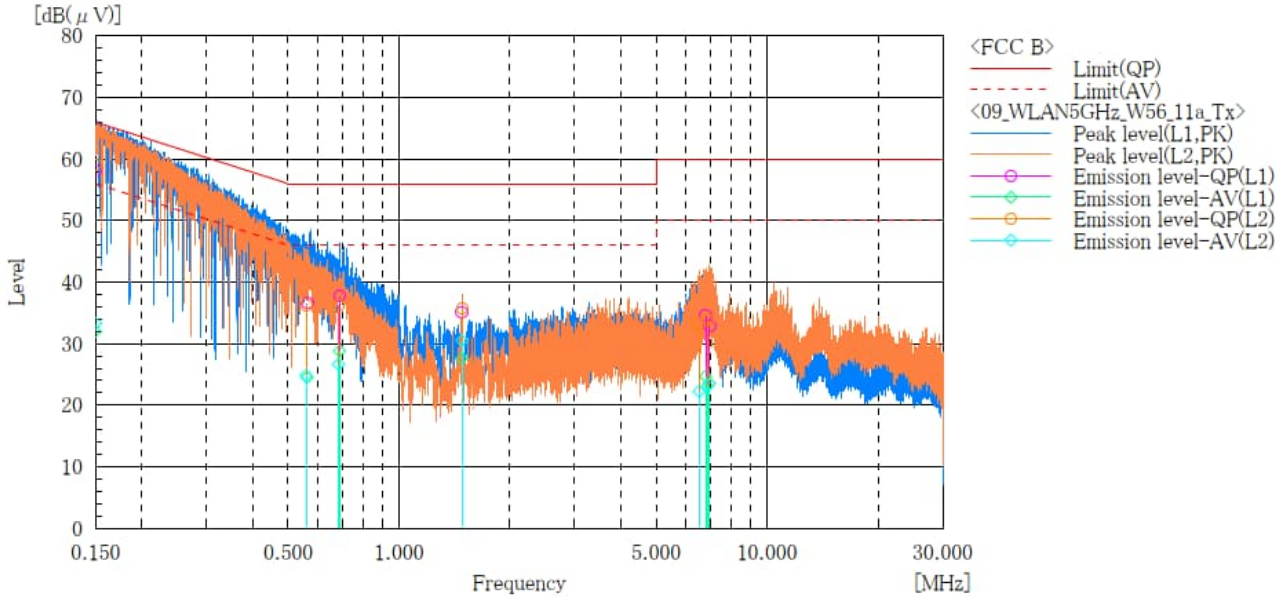
| No. | Frequency [MHz] | Reading | | c. f [dB] | Result | | Limit | | Margin | |
|-----|-----------------|-------------|--------------|-----------|-------------|--------------|-------------|-------------|---------|----------|
| | | QP [dB(μV)] | CAV [dB(μV)] | | QP [dB(μV)] | CAV [dB(μV)] | QP [dB(μV)] | AV [dB(μV)] | QP [dB] | CAV [dB] |
| 1 | 0.150 | 48.0 | 21.9 | 10.5 | 58.5 | 32.4 | 66.0 | 56.0 | 7.5 | 23.6 |
| 2 | 0.569 | 27.3 | 16.1 | 10.3 | 37.6 | 26.4 | 56.0 | 46.0 | 18.4 | 19.6 |
| 3 | 0.708 | 24.6 | 15.5 | 10.3 | 34.9 | 25.8 | 56.0 | 46.0 | 21.1 | 20.2 |
| 4 | 1.486 | 25.2 | 19.9 | 10.4 | 35.6 | 30.3 | 56.0 | 46.0 | 20.4 | 15.7 |
| 5 | 6.503 | 21.9 | 11.2 | 10.8 | 32.7 | 22.0 | 60.0 | 50.0 | 27.3 | 28.0 |
| 6 | 6.825 | 23.0 | 12.5 | 10.8 | 33.8 | 23.3 | 60.0 | 50.0 | 26.2 | 26.7 |



[5.6 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1146
 Serial No. : 354663600011206
 Test mode : WLAN_11a_W56_Tx

Standard : FCC Part.15 Subpart E
 Operator : T.Seino
 Temp,Hum,Atm : 21.3[°C] 48.3[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

| No. | Frequency [MHz] | Reading | | c. f [dB] | Result | | Limit | | Margin | |
|-----|-----------------|-------------|--------------|-----------|-------------|--------------|-------------|-------------|---------|----------|
| | | QP [dB(μV)] | CAV [dB(μV)] | | QP [dB(μV)] | CAV [dB(μV)] | QP [dB(μV)] | AV [dB(μV)] | QP [dB] | CAV [dB] |
| 1 | 0.150 | 47.6 | 21.5 | 10.5 | 58.1 | 32.0 | 66.0 | 56.0 | 7.9 | 24.0 |
| 2 | 0.564 | 26.3 | 14.2 | 10.3 | 36.6 | 24.5 | 56.0 | 46.0 | 19.4 | 21.5 |
| 3 | 0.690 | 27.4 | 18.5 | 10.3 | 37.7 | 28.8 | 56.0 | 46.0 | 18.3 | 17.2 |
| 4 | 1.483 | 24.8 | 17.3 | 10.3 | 35.1 | 27.6 | 56.0 | 46.0 | 20.9 | 18.4 |
| 5 | 6.815 | 23.8 | 13.9 | 10.8 | 34.6 | 24.7 | 60.0 | 50.0 | 25.4 | 25.3 |
| 6 | 6.977 | 22.1 | 12.7 | 10.8 | 32.9 | 23.5 | 60.0 | 50.0 | 27.1 | 26.5 |

--- L2 Phase ---

| No. | Frequency [MHz] | Reading | | c. f [dB] | Result | | Limit | | Margin | |
|-----|-----------------|-------------|--------------|-----------|-------------|--------------|-------------|-------------|---------|----------|
| | | QP [dB(μV)] | CAV [dB(μV)] | | QP [dB(μV)] | CAV [dB(μV)] | QP [dB(μV)] | AV [dB(μV)] | QP [dB] | CAV [dB] |
| 1 | 0.150 | 48.5 | 22.8 | 10.5 | 59.0 | 33.3 | 66.0 | 56.0 | 7.0 | 22.7 |
| 2 | 0.560 | 26.0 | 14.5 | 10.3 | 36.3 | 24.8 | 56.0 | 46.0 | 19.7 | 21.2 |
| 3 | 0.686 | 25.9 | 16.3 | 10.3 | 36.2 | 26.6 | 56.0 | 46.0 | 19.8 | 19.4 |
| 4 | 1.484 | 25.3 | 20.1 | 10.4 | 35.7 | 30.5 | 56.0 | 46.0 | 20.3 | 15.5 |
| 5 | 6.532 | 22.5 | 11.4 | 10.8 | 33.3 | 22.2 | 60.0 | 50.0 | 26.7 | 27.8 |
| 6 | 6.894 | 23.2 | 12.3 | 10.8 | 34.0 | 23.1 | 60.0 | 50.0 | 26.0 | 26.9 |

4.7 Duty Cycle

4.7.1 Measurement procedure

[ANSI C63.10, Section 12.2, KDB 789033 D02, Section B, Zero-Span Spectrum Analyzer Method]

The duty cycle is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=8 MHz, VBW=8 MHz, Span=0 Hz, Sweep=Auto, Detector=Peak, Trace mode=Single

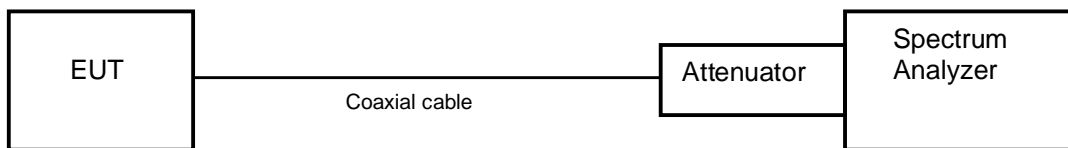
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.7.2 Limit

None

4.7.3 Measurement result

Date : 12-October-2022
Temperature : 24.9 [°C]
Humidity : 41.6 [%]
Test place : Shielded room No.4

Test engineer : Taiki Watanabe



| Mode | Channel | Frequency (MHz) | Duty Cycle | | | | DCF (dB) 10log(1/x) | DCF (dB) 20log(1/x) |
|---------|---------|-----------------|-------------|-----------------|-------|-------|------------------------|------------------------|
| | | | On Time(ms) | On+Off Time(ms) | X | 1/T | | |
| 802.11a | 36 | 5180 | 1.376 | 1.412 | 0.975 | 726.7 | 0.110 | 0.220 |
| | 40 | 5200 | | | | | | |
| | 48 | 5240 | | | | | | |
| | 52 | 5260 | 1.394 | 1.430 | 0.975 | 717.4 | 0.110 | 0.220 |
| | 56 | 5280 | | | | | | |
| | 64 | 5320 | | | | | | |
| | 100 | 5500 | 1.342 | 1.382 | 0.971 | 745.2 | 0.128 | 0.256 |
| | 116 | 5580 | | | | | | |
| | 140 | 5700 | | | | | | |
| 144 | 5720 | | | | | | | |

Note: X = On time / (On + Off time)

| Mode | Channel | Frequency (MHz) | Duty Cycle | | | | DCF (dB) 10log(1/x) | DCF (dB) 20log(1/x) |
|--------------------|---------|-----------------|-------------|-----------------|-------|-------|------------------------|------------------------|
| | | | On Time(ms) | On+Off Time(ms) | X | 1/T | | |
| 802.11n (20MHz) | 36 | 5180 | 1.288 | 1.324 | 0.973 | 776.4 | 0.119 | 0.238 |
| | 40 | 5200 | | | | | | |
| | 48 | 5240 | | | | | | |
| | 52 | 5260 | 1.392 | 1.430 | 0.973 | 718.4 | 0.119 | 0.238 |
| | 56 | 5280 | | | | | | |
| | 64 | 5320 | | | | | | |
| | 100 | 5500 | 1.260 | 1.298 | 0.971 | 793.7 | 0.128 | 0.256 |
| | 116 | 5580 | | | | | | |
| | 140 | 5700 | | | | | | |
| 144 | 5720 | | | | | | | |

Note: X = On time / (On + Off time)



| Mode | Channel | Frequency (MHz) | Duty Cycle | | | | DCF (dB) 10log(1/x) | DCF (dB) 20log(1/x) |
|--------------------|---------|-----------------|-------------|-----------------|-------|--------|------------------------|------------------------|
| | | | On Time(ms) | On+Off Time(ms) | X | 1/T | | |
| 802.11n (40MHz) | 38 | 5190 | 0.636 | 0.672 | 0.946 | 1572.3 | 0.241 | 0.482 |
| | 46 | 5230 | | | | | | |
| | 54 | 5270 | 0.636 | 0.672 | 0.946 | 1572.3 | 0.241 | 0.482 |
| | 62 | 5310 | | | | | | |
| | 102 | 5510 | 0.637 | 0.672 | 0.948 | 1569.9 | 0.232 | 0.464 |
| | 110 | 5550 | | | | | | |
| | 134 | 5670 | | | | | | |
| 142 | 5710 | | | | | | | |

Note: X = On time / (On + Off time)

| Mode | Channel | Frequency (MHz) | Duty Cycle | | | | DCF (dB) 10log(1/x) | DCF (dB) 20log(1/x) |
|---------------------|---------|-----------------|-------------|-----------------|-------|--------|------------------------|------------------------|
| | | | On Time(ms) | On+Off Time(ms) | X | 1/T | | |
| 802.11ac (80MHz) | 42 | 5210 | 0.325 | 0.360 | 0.903 | 3076.9 | 0.443 | 0.886 |
| | 58 | 5290 | 0.315 | 0.352 | 0.895 | 3174.6 | 0.482 | 0.964 |
| | 106 | 5530 | 0.324 | 0.359 | 0.903 | 3086.4 | 0.443 | 0.886 |
| | 121 | 5610 | 0.315 | 0.352 | 0.895 | 3174.6 | 0.482 | 0.964 |
| | 138 | 5690 | 0.324 | 0.359 | 0.903 | 3086.4 | 0.443 | 0.886 |

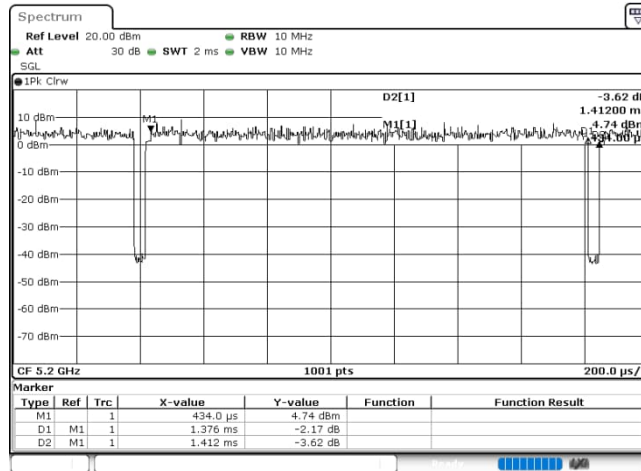
Note: X = On time / (On + Off time)



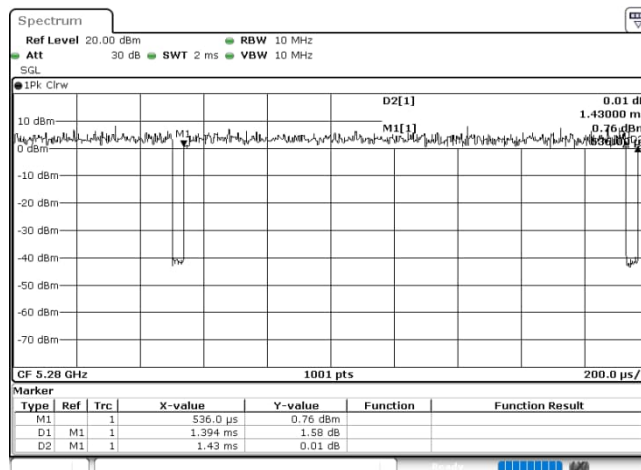
Japan

4.7.4 Trace data

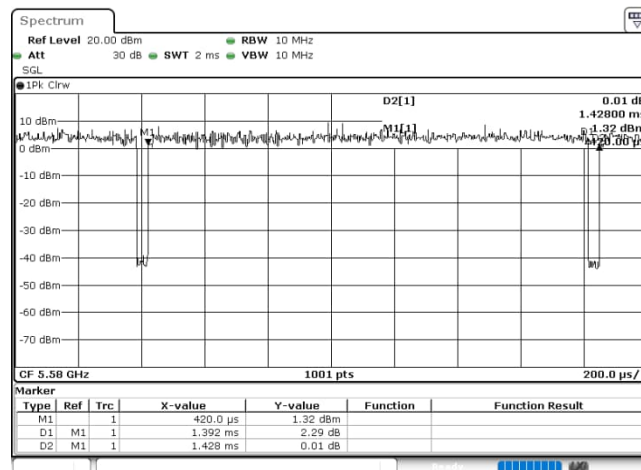
[IEEE802.11a]
 (5.2 GHz Band)
 Channel: 40



(5.3 GHz Band)
 Channel: 56

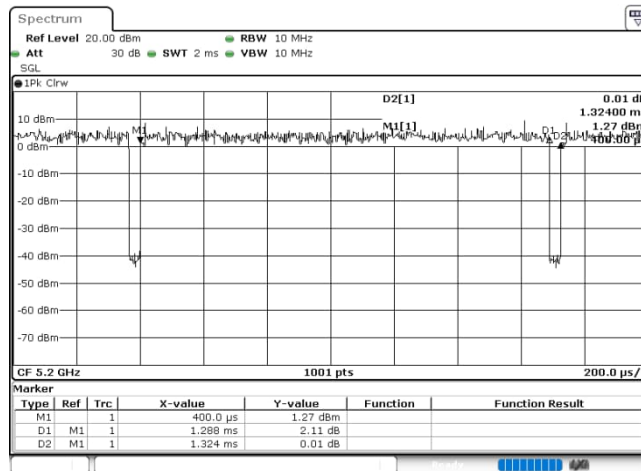


(5.6 GHz Band)
 Channel: 116

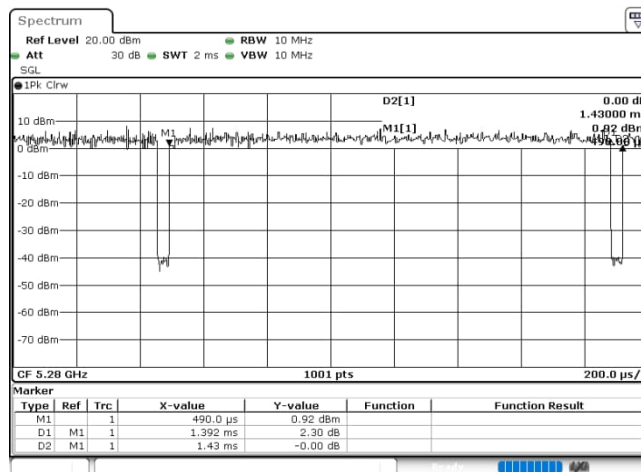




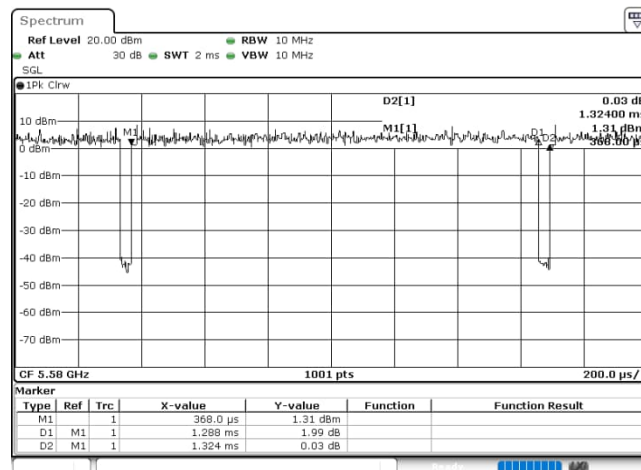
**[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 40**



**(5.3 GHz Band)
Channel: 56**

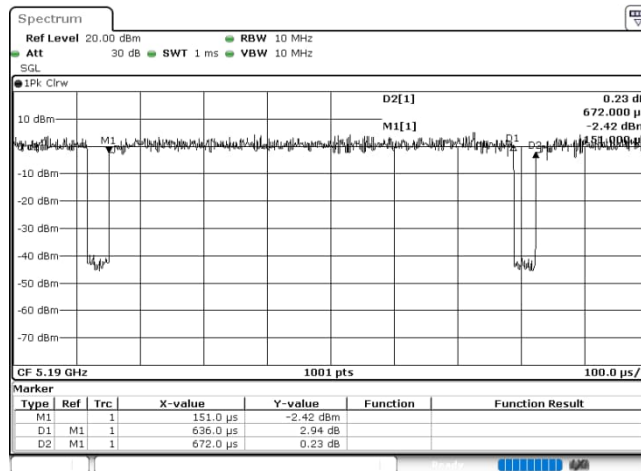


**(5.6 GHz Band)
Channel: 116**

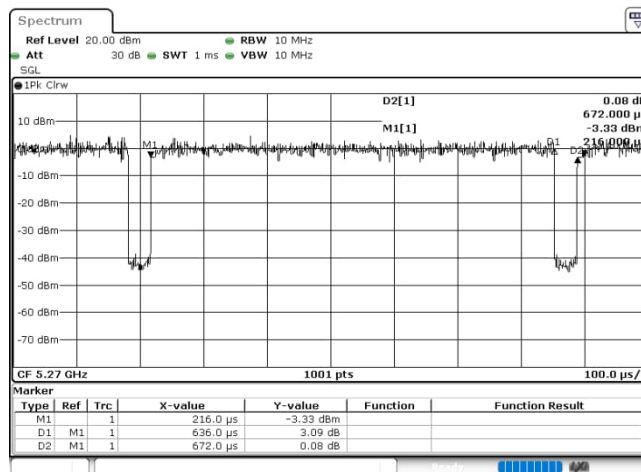




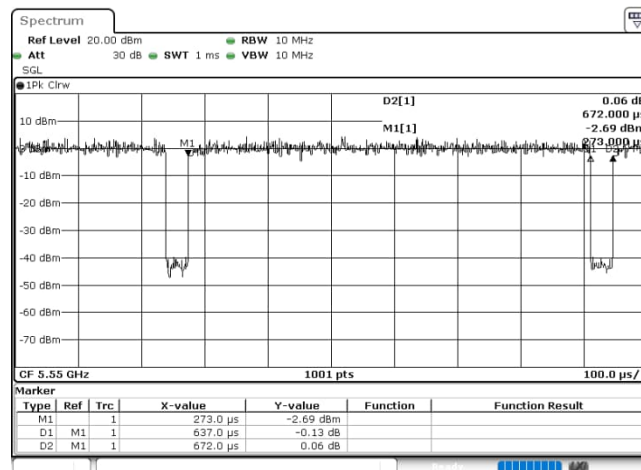
[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38



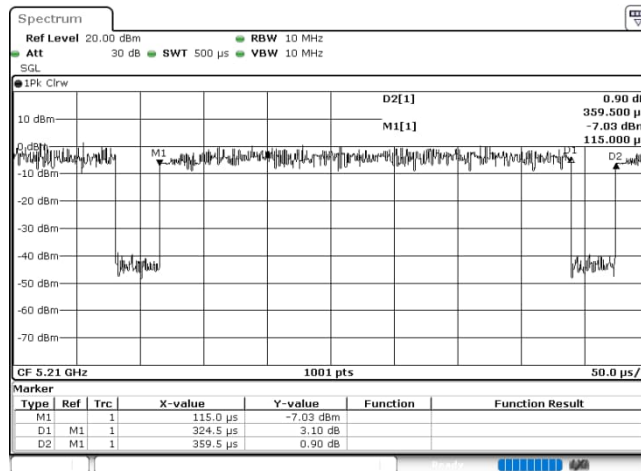
(5.3 GHz Band)
Channel: 54



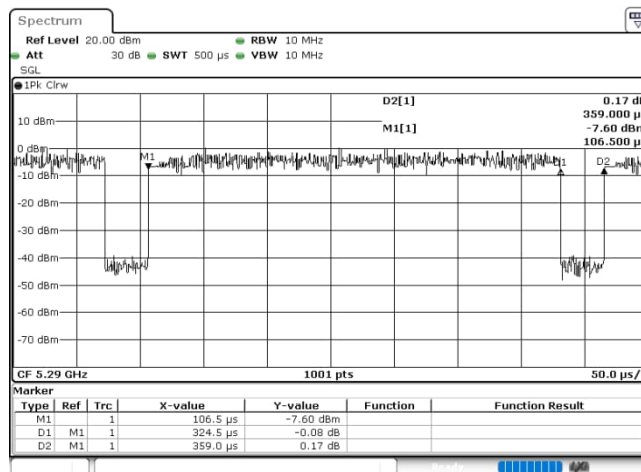
(5.6 GHz Band)
Channel: 110



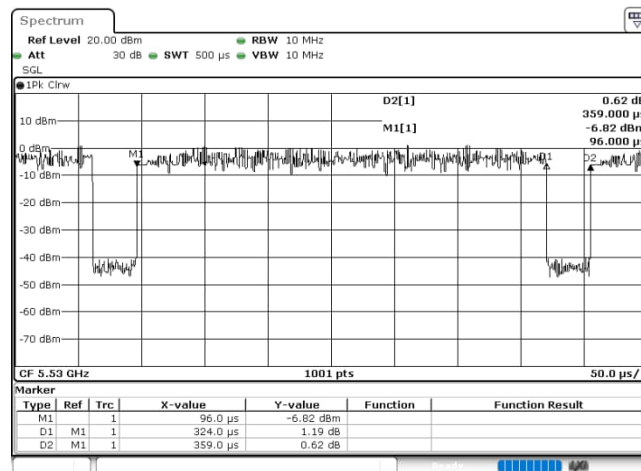
**[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42**



**(5.3 GHz Band)
Channel: 58**



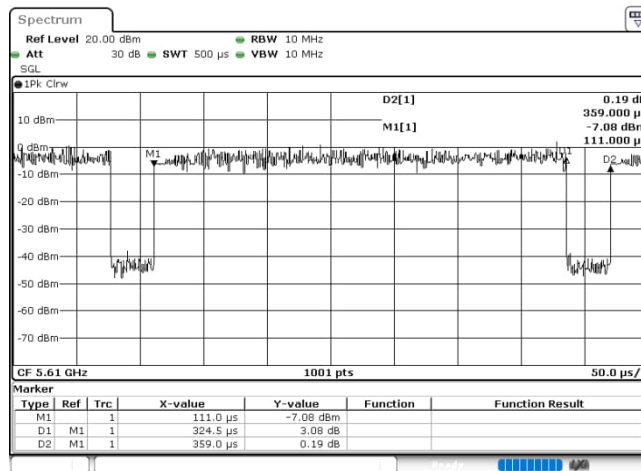
**(5.6 GHz Band)
Channel: 106**



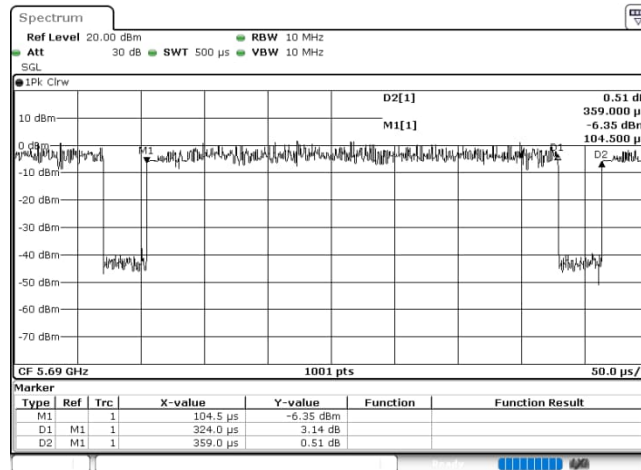


Japan

**(5.6 GHz Band)
Channel: 122**



Channel: 138





Japan

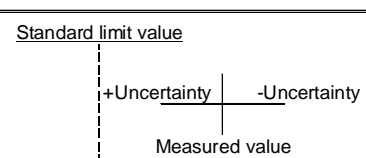

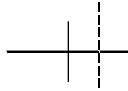
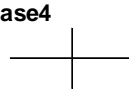
5 Antenna requirement

According to FCC section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The antenna is a special antenna mounted inside of the EUT. Therefore, the EUT complies with the antenna requirement of FCC section 15.203.

6 Measurement uncertainty

Expanded uncertainties stated are calculated with a coverage Factor k=2.
 Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or non-compliance with test result.

| Test item | Measurement uncertainty |
|--|-------------------------|
| Conducted emission, AMN (9 kHz – 150 kHz) | ±3.7 dB |
| Conducted emission, AMN (150 kHz – 30 MHz) | ±3.3 dB |
| Radiated emission (9kHz – 30 MHz) | ±3.2 dB |
| Radiated emission (30 MHz – 1000 MHz) | ±5.3 dB |
| Radiated emission (1 GHz – 6 GHz) | ±4.8 dB |
| Radiated emission (6 GHz – 18 GHz) | ±4.5 dB |
| Radiated emission (18 GHz – 40 GHz) | ±6.4 dB |
| Radio Frequency | ±1.4 * 10 ⁻⁸ |
| RF power, conducted | ±0.8 dB |
| Adjacent channel power | ±2.4 dB |
| Temperature | ±0.6 °C |
| Humidity | ±1.2 % |
| Voltage (DC) | ±0.4 % |
| Voltage (AC, <10kHz) | ±0.2 % |

| Judge | Measured value and standard limit value |
|-------|--|
| PASS | <p>Case1</p>  <p>Even if it takes uncertainty into consideration, a standard limit value is fulfilled.</p> |
| | <p>Case2</p>  <p>Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.</p> |
| FAIL | <p>Case3</p>  <p>Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.</p> |
| | <p>Case4</p>  <p>Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.</p> |



Japan

7 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan

Phone: +81-238-28-2881

Accreditation and Registration

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

Registration number: A-0166

Appendix A. Test Equipment

Antenna port conducted test

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|--------------------------------------|----------------------|-----------|------------|-------------|-------------|
| Spectrum analyzer | Agilent Technologies | E4440A | US44302655 | 30-Sep-2023 | 05-Sep-2022 |
| Attenuator | Weinschel | 56-10 | J4993 | 31-Dec-2022 | 21-Dec-2021 |
| Micro wave cable | Junkosha Inc. | MWX221/1m | N/A(S400) | 31-Mar-2023 | 02-Mar-2022 |
| Low temperature and humidity chamber | Espec | PL1KP | 14007261 | 30-Sep-2023 | 02-Sep-2022 |

Radiated emission

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|-----------------------------|----------------------|-------------------|------------------|-------------|-------------|
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100765 | 30-Sep-2023 | 14-Sep-2022 |
| Spectrum analyzer | Agilent Technologies | E4440A | US40420937 | 30-Sep-2023 | 05-Sep-2022 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40 | 101731 | 31-Mar-2023 | 03-Mar-2022 |
| Preamplifier | SONOMA | 310 | 372170 | 30-Sep-2023 | 28-Sep-2022 |
| Loop antenna | ROHDE&SCHWARZ | HFH2-Z2 | 100515 | 30-Apr-2023 | 18-Apr-2022 |
| Attenuator | TOYO Connector | NA-PJ-6 | N/A(S507) | 28-Feb-2023 | 03-Feb-2022 |
| Biconical antenna | Schwarzbeck | VHBB9124/BBA9106 | 1333 | 31-Dec-2022 | 15-Dec-2021 |
| Log periodic antenna | Schwarzbeck | VUSLP9111B | 346 | 30-Sep-2023 | 15-Sep-2022 |
| Attenuator | TOYO Connector | NA-PJ-6/dB | N/A(S541) | 30-Sep-2023 | 28-Sep-2022 |
| Attenuator | TAMAGAWA.ELEC | CFA-10/3dB | N/A(S503) | 31-Jul-2023 | 14-Jul-2022 |
| Preamplifier | TSJ | MLA-100M18-B02-40 | 1929118 | 31-Dec-2022 | 22-Dec-2021 |
| Attenuator | AEROFLEX | 26A-10 | 081217-08 | 31-Dec-2022 | 22-Dec-2021 |
| Double ridged guide antenna | ETS LINDGREN | 3117 | 00052315 | 30-Jun-2023 | 22-Jun-2022 |
| Attenuator | HUBER+SUHNER | 6803.17.B | N/A(2340) | 31-Dec-2022 | 23-Dec-2021 |
| Double ridged guide antenna | A.H.Systems Inc. | SAS-574 | 469 | 31-Aug-2023 | 19-Aug-2022 |
| Preamplifier | TSJ | MLA-1840-B03-35 | 1240332 | 31-Aug-2023 | 19-Aug-2022 |
| Notch Filter | Micro-Tronics | BRM50716 | 006 | 31-Jul-2023 | 14-Jul-2022 |
| Microwave cable | HUBER+SUHNER | SUCOFLEX104/9m | MY30037/4 | 31-Dec-2022 | 22-Dec-2021 |
| | | SUCOFLEX104/1m | my24610/4 | 31-Dec-2022 | 22-Dec-2021 |
| | | SUCOFLEX104/8m | SN MY30033/4 | 31-Dec-2022 | 22-Dec-2021 |
| | | SUCOFLEX104/1m | MY32976/4 | 31-Dec-2022 | 22-Dec-2021 |
| | | SUCOFLEX104/2m | SN MY28404/4 | 31-Dec-2022 | 22-Dec-2021 |
| | | SUCOFLEX104/7m | 41625/6 | 31-Dec-2022 | 22-Dec-2021 |
| PC | DELL | DIMENSION E521 | 75465BX | N/A | N/A |
| Software | TOYO Corporation | EP5/RE-AJ | 0611193/V6.0.140 | N/A | N/A |
| Absorber | RIKEN | PPF30 | N/A | N/A | N/A |
| 3m Semi an-echoic Chamber | TOKIN | N/A | N/A(9002-NSA) | 31-May-2023 | 28-May-2022 |
| 3m Semi an-echoic Chamber | TOKIN | N/A | N/A(9002-SVSWR) | 31-May-2023 | 28-May-2022 |

Conducted emission at mains port

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|--------------------------------------|---------------------------------|----------------|-----------------|-------------|-------------|
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100765 | 30-Sep-2023 | 14-Sep-2022 |
| Attenuator | HUBER+SUHNER | 6810.01.A | N/A (S411) | 31-Dec-2022 | 22-Dec-2021 |
| Line impedance stabilization network | Kyoritsu Electrical Works, Ltd. | TNW-407F2 | 12-17-110-2 | 30-Jun-2023 | 15-Jun-2022 |
| Microwave cable | HUBER+SUHNER | SUCOFLEX104/5m | MY33601/4 | 30-Sep-2023 | 28-Sep-2022 |
| Microwave cable | HUBER+SUHNER | SUCOFLEX104/2m | MY37268/4 | 30-Sep-2023 | 28-Sep-2022 |
| Coaxial cable | HUBER+SUHNER | RG214/U/10m | N/A (S194) | 31-Dec-2022 | 22-Dec-2021 |
| PC | DELL | DIMENSION | 75465BX | N/A | N/A |
| Software | TOYO Corporation | EP5/CE-AJ | 0611193/V5.4.11 | N/A | N/A |

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.