



**FCC 47 CFR PART 15 SUBPART E
CERTIFICATION TEST REPORT**

For

GPON Terminal

MODEL NUMBER: EchoLife EG8247Q

FCC ID: QISEG8247Q

REPORT NUMBER: 4788418338.1-3

ISSUE DATE: November 06, 2018

Prepared for

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Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-------------------|--|-------------------|
| V0 | 10/25/2018 | Initial Issue | |
| V1 | 11/04/2018 | Update the test period, updated and added data in 6.2 chapters, updated limit of 6.3 and 6.4, descriptions, update the test description of the MIMO mode in the 6.3 chapter, updated 7.1 and 7.5 chapters. | Miller Ma |
| V2 | 11/06/2018 | Updated chapters 6.2 and 6.3 chapters. | Miller Ma |



| Summary of Test Results | | | |
|-------------------------|---|--|--------------|
| Clause | Test Items | FCC/IC Rules | Test Results |
| 1 | 6/26db Bandwidth | FCC 15.407 (a)&(e) RSS-247 Clause 6.2 | PASS |
| 2 | 99% Bandwidth | RSS-Gen Clause 6.6 | PASS |
| 3 | Maximum Conducted Output Power | FCC 15.407 (a) RSS-247 Clause 6.2 | PASS |
| 4 | Power Spectral Density | FCC 15.407 (a) RSS-247 Clause 6.2 | PASS |
| 5 | Antenna Conducted Spurious Emission | FCC 15.407 (b) RSS-247 Clause 6.2 | PASS |
| 6 | Radiated Bandedge and Spurious Emission | FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9 | PASS |
| 7 | Conducted Emission Test For AC Power Port | FCC 15.207 RSS-GEN Clause 8.8 | PASS |
| 8 | Antenna Requirement | FCC 15.203 RSS-GEN Clause 8.3 | PASS |
| 9 | Frequency Stability | FCC 15.407 (g) | PASS |



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: HUAWEI TECHNOLOGIES CO., LTD.
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Manufacturer Information

Company Name: HUAWEI TECHNOLOGIES CO., LTD.
Address: Administration Building, Huawei Technologies Co., Ltd. Bantian, Longgang District, Shenzhen, P.R. China, 518129

EUT Description

EUT Name: GPON Terminal
Model: EchoLife EG8247Q
Brand Name: HUAWEI
Sample Status: Normal
Sample ID: 12237049
Sample Received Date: April 13, 2018
Date of Tested: April 30, 2018~ November 02, 2018

| APPLICABLE STANDARDS | |
|--------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart E | PASS |

Tested By:

Checked By:

Miller Ma
Engineer Project Associate

Shawn Wen
Operations Leader

Approved By:

Stephen Guo
Operations Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 789033 D02 v02r01, KDB 662911 D01 v02r01, RSS-GEN Issue 4, RSS-247 Issue 2 and KDB414788 D01 Radiated Test Site v01.

3. FACILITIES AND ACCREDITATIO

| | |
|---------------------------|--|
| Accreditation Certificate | <p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules</p> <p>IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p> |
|---------------------------|--|

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OATS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item | Uncertainty |
|---|---------------------|
| Uncertainty for Conduction emission test | 2.90dB |
| Uncertainty for Radiation Emission test(include Fundamental emission) (9KHz-30MHz) | 2.2dB |
| Uncertainty for Radiation Emission test(include Fundamental emission) (30MHz-1GHz) | 4.52dB |
| Uncertainty for Radiation Emission test (1GHz to 40GHz)(include Fundamental emission) | 5.04dB(1-6GHz) |
| | 5.30dB (6GHz-18Gz) |
| | 5.23dB (18GHz-26Gz) |
| | 5.64dB (26GHz-40Gz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

| | | | |
|-------------------|---|--------|----------------------------|
| Equipment | GPON Terminal | | |
| EUT Description | The EUT is an GPON Terminal with 2.4GHz and 5GHz WIFI. | | |
| Model Name | EchoLife EG8247Q | | |
| Series M/N: | EchoLife EG8245Q; EchoLife HG8247Q5; EchoLife HG8245Q5. | | |
| Model Difference: | EchoLife EG8245Q: The model name is different, the CATV module is removed and a USB port is removed. EchoLife HG8247Q5: Only model name is different. EchoLife HG8245Q5: The model name is different, the CATV module is removed and a USB port is removed. | | |
| Power Supply | Power Adapter | Input | AC 100~240V, 50~60Hz, 0.8A |
| | | Output | 12V,2.0A |



5.2. CHANNEL LIST

| 20 MHz Bandwidth Channel frequencies | | |
|--------------------------------------|---------|-----------------|
| Band | Channel | Frequency (MHz) |
| UNII-1 | 36 | 5180 |
| | 40 | 5200 |
| | 44 | 5220 |
| | 48 | 5240 |
| UNII-2A | 52 | 5260 |
| | 56 | 5280 |
| | 60 | 5300 |
| | 64 | 5320 |
| UNII-2C | 100 | 5500 |
| | 104 | 5520 |
| | 108 | 5540 |
| | 112 | 5560 |
| | 116 | 5580 |
| | 120 | 5600 |
| | 124 | 5620 |
| | 128 | 5640 |
| | 132 | 5660 |
| | 136 | 5680 |
| | 140 | 5700 |
| UNII-3 | 144 | 5720 |
| | 149 | 5745 |
| | 153 | 5765 |
| | 157 | 5785 |
| | 161 | 5805 |
| | 165 | 5825 |



| 40 MHz Bandwidth Channel frequencies | | |
|--------------------------------------|---------|-----------------|
| Band | Channel | Frequency (MHz) |
| UNII-1 | 38 | 5190 |
| | 46 | 5230 |
| UNII-2A | 54 | 5270 |
| | 62 | 5310 |
| UNII-2C | 102 | 5510 |
| | 110 | 5550 |
| | 118 | 5590 |
| | 126 | 5630 |
| | 134 | 5670 |
| | 142 | 5710 |
| UNII-3 | 151 | 5755 |
| | 159 | 5795 |

| 80 MHz Bandwidth Channel frequencies | | |
|--------------------------------------|---------|-----------------|
| Band | Channel | Frequency (MHz) |
| UNII-1 | 42 | 5210 |
| UNII-2A | 58 | 5290 |
| UNII-2C | 106 | 5530 |
| | 122 | 5610 |
| | 138 | 5690 |
| UNII-3 | 155 | 5775 |



5.3. THE WORSE CASE CONFIGURATIONS

SISO Mode

UNII-1

| The Worse Case Power Setting Parameter under 5150~ 5250MHz Band | | | | | | | |
|---|-------------------------|--------------|-------|-------|------------|-------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 36 | CH 40 | CH 48 | CH 38 | CH 46 | CH 42 |
| 802.11a | 2 | 19 | 25.5 | 23.5 | N/A | | |
| 802.11n HT20 | 2 | 19.5 | 25.5 | 23.5 | | | |
| 802.11ac HT20 | 2 | 19.5 | 25.5 | 23.5 | | | |
| 802.11n HT40 | 2 | N/A | N/A | N/A | 17 | 22.5 | N/A |
| 802.11ac HT40 | 2 | N/A | N/A | N/A | 17 | 22.5 | N/A |
| 802.11ac HT80 | 2 | N/A | N/A | N/A | N/A | N/A | 16 |

UNII-2A

| The Worse Case Power Setting Parameter under 5250~ 5350MHz Band | | | | | | | |
|---|-------------------------|--------------|-------|-------|------------|-------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 52 | CH 60 | CH 64 | CH 54 | CH 62 | CH 58 |
| 802.11a | 2 | 21.5 | 21.5 | 19.5 | N/A | | |
| 802.11n HT20 | 2 | 21.5 | 22 | 19 | | | |
| 802.11ac HT20 | 2 | 21.5 | 22 | 19.5 | | | |
| 802.11n HT40 | 2 | N/A | N/A | N/A | 22 | 19.5 | N/A |
| 802.11ac HT40 | 2 | N/A | N/A | N/A | 22 | 18.5 | N/A |
| 802.11ac HT80 | 2 | N/A | N/A | N/A | N/A | N/A | 18 |



UNII-2C

| The Worst Case Power Setting Parameter under 5470 ~ 5725MHz Band | | | | | | | | | | | | |
|--|-------------------------|--------------|--------|--------|--------|------------|--------|--------|--------|------------|--------|--------|
| Test Software | | QSPR | | | | | | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | | | | | | |
| | | NCB: 20MHz | | | | NCB: 40MHz | | | | NCB: 80MHz | | |
| | | CH 100 | CH 116 | CH 140 | CH 144 | CH 102 | CH 110 | CH 134 | CH 142 | CH 106 | CH 122 | CH 138 |
| 802.11a | 2 | 18.5 | 21.5 | 18 | 21.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11n HT20 | 2 | 18.5 | 21.5 | 18 | 21.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11ac HT20 | 2 | 18.5 | 21.5 | 18 | 21.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11n HT40 | 2 | N/A | N/A | N/A | N/A | 16.5 | 21 | 19.5 | 22 | N/A | N/A | N/A |
| 802.11ac HT40 | 2 | N/A | N/A | N/A | N/A | 16 | 21 | 20 | 22 | N/A | N/A | N/A |
| 802.11ac HT80 | 2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 16 | 21 | 22 |

UNII-3

| The Worst Case Power Setting Parameter under 5725~ 5850MHz Band | | | | | | | |
|---|-------------------------|--------------|--------|--------|------------|--------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 149 | CH 157 | CH 165 | CH 151 | CH 159 | CH155 |
| 802.11a | 2 | 22.5 | 21 | 22 | N/A | | |
| 802.11n HT20 | 2 | 22.5 | 21 | 22 | | | |
| 802.11ac HT20 | 2 | 22.5 | 21 | 22 | | | |
| 802.11n HT40 | 2 | N/A | N/A | N/A | 23.5 | 22 | N/A |
| 802.11ac HT40 | 2 | N/A | N/A | N/A | 23.5 | 22 | N/A |
| 802.11ac HT80 | 2 | N/A | N/A | N/A | N/A | N/A | 22 |



MIMO Mode

UNII-1

| The Worse Case Power Setting Parameter under 5150~ 5250MHz Band | | | | | | | |
|---|-------------------------|--------------|-------|-------|------------|-------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 36 | CH 40 | CH 48 | CH 38 | CH 46 | CH 42 |
| 802.11a | 0&1&2 | 18.5 | 22 | 21.5 | N/A | | |
| 802.11n HT20 | 0&1&2 | 18 | 23 | 22.5 | | | |
| 802.11ac HT20 | 0&1&2 | 18 | 23 | 22.5 | | | |
| 802.11n HT40 | 0&1&2 | N/A | N/A | N/A | 16 | 21 | N/A |
| 802.11ac HT40 | 0&1&2 | N/A | N/A | N/A | 14 | 21.5 | N/A |
| 802.11ac HT80 | 0&1&2 | N/A | N/A | N/A | N/A | N/A | 13 |

UNII-2A

| The Worse Case Power Setting Parameter under 5250~ 5350MHz Band | | | | | | | |
|---|-------------------------|--------------|-------|-------|------------|-------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 52 | CH 60 | CH 64 | CH 54 | CH 62 | CH 58 |
| 802.11a | 0&1&2 | 17 | 17 | 17 | N/A | | |
| 802.11n HT20 | 0&1&2 | 16 | 17 | 17 | | | |
| 802.11ac HT20 | 0&1&2 | 17.5 | 17 | 17 | | | |
| 802.11n HT40 | 0&1&2 | N/A | N/A | N/A | 19 | 14.5 | N/A |
| 802.11ac HT40 | 0&1&2 | N/A | N/A | N/A | 18.5 | 14.5 | N/A |
| 802.11ac HT80 | 0&1&2 | N/A | N/A | N/A | N/A | N/A | 13 |



UNII-2C

| The Worse Case Power Setting Parameter under 5470 ~ 5725MHz Band | | | | | | | | | | | | |
|--|-------------------------|--------------|--------|--------|--------|------------|--------|--------|--------|------------|--------|--------|
| Test Software | | QSPR | | | | | | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | | | | | | |
| | | NCB: 20MHz | | | | NCB: 40MHz | | | | NCB: 80MHz | | |
| | | CH 100 | CH 116 | CH 140 | CH 144 | CH 102 | CH 110 | CH 134 | CH 142 | CH 106 | CH 122 | CH 138 |
| 802.11a | 0&1&2 | 16.5 | 16 | 16 | 16.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11n HT20 | 0&1&2 | 17 | 16 | 15 | 16.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11ac HT20 | 0&1&2 | 17 | 16 | 16 | 16.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 802.11n HT40 | 0&1&2 | N/A | N/A | N/A | N/A | 12.5 | 18 | 17.5 | 17.5 | N/A | N/A | N/A |
| 802.11ac HT40 | 0&1&2 | N/A | N/A | N/A | N/A | 13 | 18 | 18 | 17.5 | N/A | N/A | N/A |
| 802.11ac HT80 | 0&1&2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 11 | 18 | 18 |

UNII-3

| The Worse Case Power Setting Parameter under 5725~ 5850MHz Band | | | | | | | |
|---|-------------------------|--------------|--------|--------|------------|--------|------------|
| Test Software | | QSPR | | | | | |
| Modulation Mode | Transmit Antenna Number | Test Channel | | | | | |
| | | NCB: 20MHz | | | NCB: 40MHz | | NCB: 80MHz |
| | | CH 149 | CH 157 | CH 165 | CH 151 | CH 159 | CH 155 |
| 802.11a | 0&1&2 | 22 | 21.5 | 22 | N/A | | |
| 802.11n HT20 | 0&1&2 | 21 | 20.5 | 21 | | | |
| 802.11ac HT20 | 0&1&2 | 21 | 20.5 | 21 | | | |
| 802.11n HT40 | 0&1&2 | N/A | N/A | N/A | 21.5 | 23 | N/A |
| 802.11ac HT40 | 0&1&2 | N/A | N/A | N/A | 22 | 22.5 | N/A |
| 802.11ac HT80 | 0&1&2 | N/A | N/A | N/A | N/A | N/A | 17.5 |

Remarks: EUT support for diversity and CDD MIMO Transmission, 802.11b only supports SISO mode ,all modes and antennas are pre-scanned, antenna 0 is worst for SISO mode worst case, 0&1&2 is worst case for MIMO mode.

For MIMO mode 2TX and 3TX single Chain power settings are the same, so 3TX mode covers 2TX mode.



5.4. DESCRIPTION OF AVAILABLE ANTENNAS

| Ant. | Frequency (MHz) | Antenna Type | Antenna Gain (dBi) |
|------|-----------------|------------------|--------------------|
| 0 | 5180-5320 | Omni-Directional | 2 |
| | 5475-5725 | Omni-Directional | 2 |
| | 5745-5825 | Omni-Directional | 2 |

| Ant. | Frequency (MHz) | Antenna Type | Antenna Gain (dBi) |
|------|-----------------|------------------|--------------------|
| 1 | 5180-5320 | Omni-Directional | 2 |
| | 5475-5725 | Omni-Directional | 2 |
| | 5745-5825 | Omni-Directional | 2 |

| Ant. | Frequency (MHz) | Antenna Type | Antenna Gain (dBi) |
|------|-----------------|------------------|--------------------|
| 2 | 5180-5320 | Omni-Directional | 2 |
| | 5475-5725 | Omni-Directional | 2 |
| | 5745-5825 | Omni-Directional | 2 |

| Directional gain | | | | |
|------------------|-----------------|------------------------|--|--|
| Mode | Frequency (MHz) | Max Antenna Gain (dBi) | For power measurements Directional gain Gain (dBi) | For power spectral density (PSD) measurements Gain (dBi) |
| SISO | 5180-5320 | 2 | 2 | 2 |
| CDD 2TX | 5475-5725 | 2 | 2 | 5 |
| CDD 3TX | 5475-5725 | 2 | 2 | 6.77 |

Note : Directional gain = GANT + Array Gain
For power spectral density (PSD) measurements on all devices,
Array Gain = 10 log(NANT/NSS) dB.
For power measurements on IEEE 802.11 devices, 1,2
Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less, for 20-MHz channel widths with NANT ≥ 5.



| Test Mode | Transmit and Receive Mode | Description |
|---------------|---------------------------|---|
| 802.11a | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |
| 802.11n HT20 | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |
| 802.11n HT40 | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |
| 802.11ac HT20 | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |
| 802.11ac HT40 | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |
| 802.11ac HT80 | 3TX, 3RX | Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna. |



5.5. TEST ENVIRONMENT

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|--------------|
| Relative Humidity | 55 ~ 65% | |
| Atmospheric Pressure: | 1025Pa | |
| Temperature | TN | 23 ~ 28°C |
| Voltage : | VL | N/A |
| | VN | AC 120V/60Hz |
| | VH | N/A |

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature



5.6. WORST-CASE CONFIGURATIONS

| IEE Std. 802.11 | Modulation Technology | Modulation Type | Data Rate (Mbps) | Worst Case (Mbps) |
|--------------------|--------------------------|-----------------------------|-----------------------|----------------------|
| a | OFDM | BPSK, QPSK, 16QAM, 64QAM | 54/48/36/24/18/12/9/6 | 6 |

| IEE Std. 802.11 | Modulation Technology | Modulation Type | Data Rate | Worst Case |
|--------------------|--------------------------|-----------------------------|--------------|------------|
| n HT20 | OFDM | BPSK, QPSK, 16QAM, 64QAM | (MCS0~MCS23) | MCS0 |
| n HT40 | OFDM | BPSK, QPSK, 16QAM, 64QAM | (MCS0~MCS23) | MCS0 |

| IEE Std. 802.11 | Modulation Technology | Modulation Type | Data Rate | Worst Case |
|--------------------|--------------------------|-----------------------------|-------------|------------|
| ac HT20 | OFDM | BPSK, QPSK, 16QAM, 64QAM | (MCS0~MCS9) | MCS0 |
| ac HT40 | OFDM | BPSK, QPSK, 16QAM, 64QAM | (MCS0~MCS9) | MCS0 |
| ac HT80 | OFDM | BPSK, QPSK, 16QAM, 64QAM | (MCS0~MCS9) | MCS0 |



5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | P/N |
|------|-----------------|------------|----------------|---------------|
| 1 | Laptop | ThinkPad | T460S | SL10K24796 JS |
| 2 | Telephone | TCL | HCD868 | -- |
| 3 | TV | SHARP | LCD-40DS72 | 0878505917102 |
| 4 | Media Converter | Youke | YKF2300-MLC-5M | -- |
| 5 | Fash Disk | Kingston | DTSE9 | -- |
| 6 | Fash Disk | Kingston | DTSE9 | -- |

I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|----------|---------|----------------|------------|-----------------|---------|
| 1 | LAN | RJ45 | Unshielded | 6 | -- |
| 2 | RJ45 | RJ45 | Unshielded | 6 | -- |
| 3 | CATV | CATV | Shielded | 7 | -- |
| 4 | Optical | Optical | Unshielded | 6 | -- |

ACCESSORY

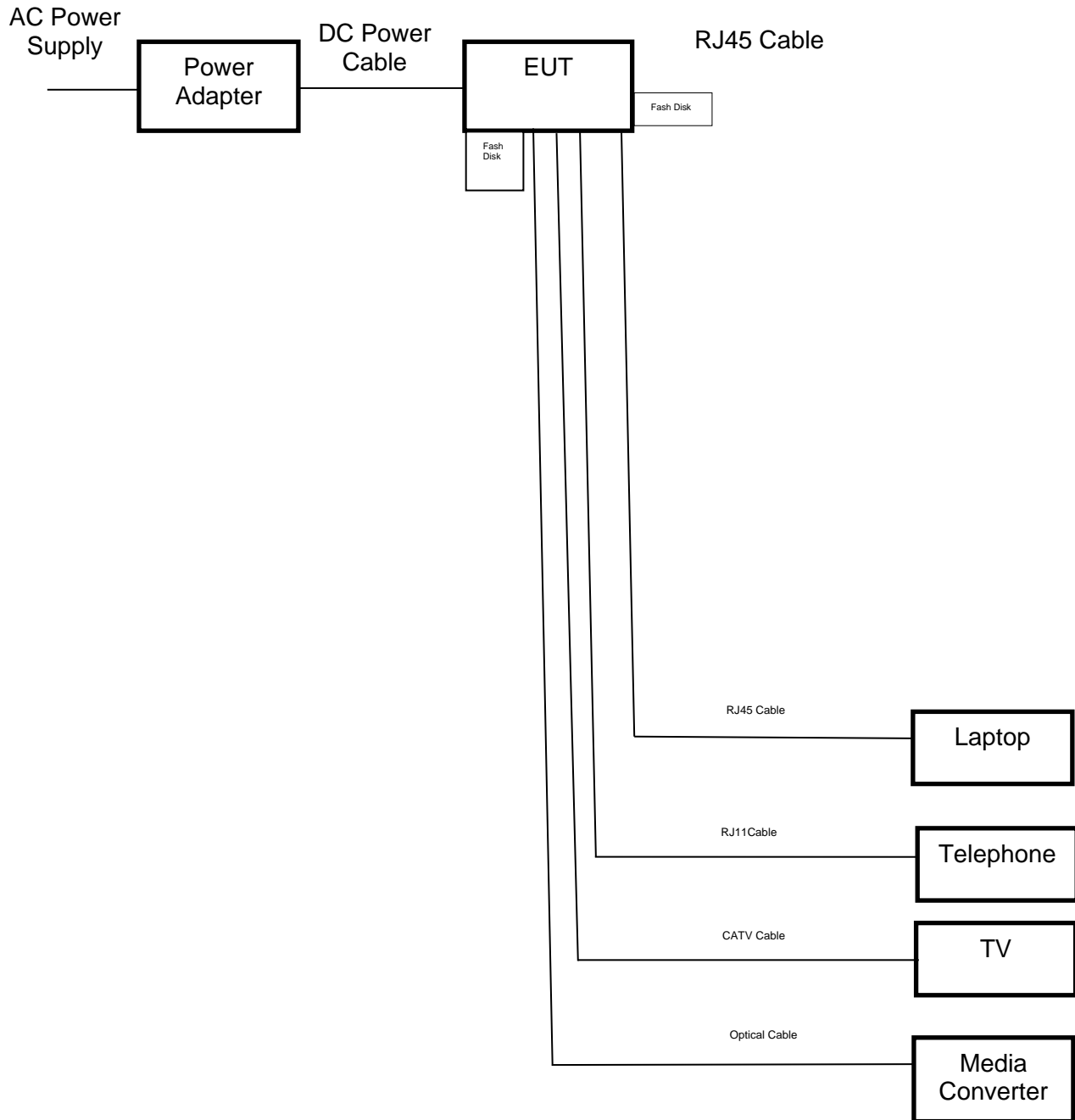
| Item | Equipment | Brand Name | Model Name | Remarks |
|------|---------------|------------|------------|--|
| 1 | POWER ADAPTER | HUAWEI | 120200U7W | Input: AC 100~240V, 50~60Hz, 0.8A Output: 12V,2.0A |

Note: POWER ADAPTER is supplied by SHENZHEN HUNTKEY ELECTRIC CO., LTD or DONGGUANFUHUA ELECTRIC CO., LTD.

TEST SETUP

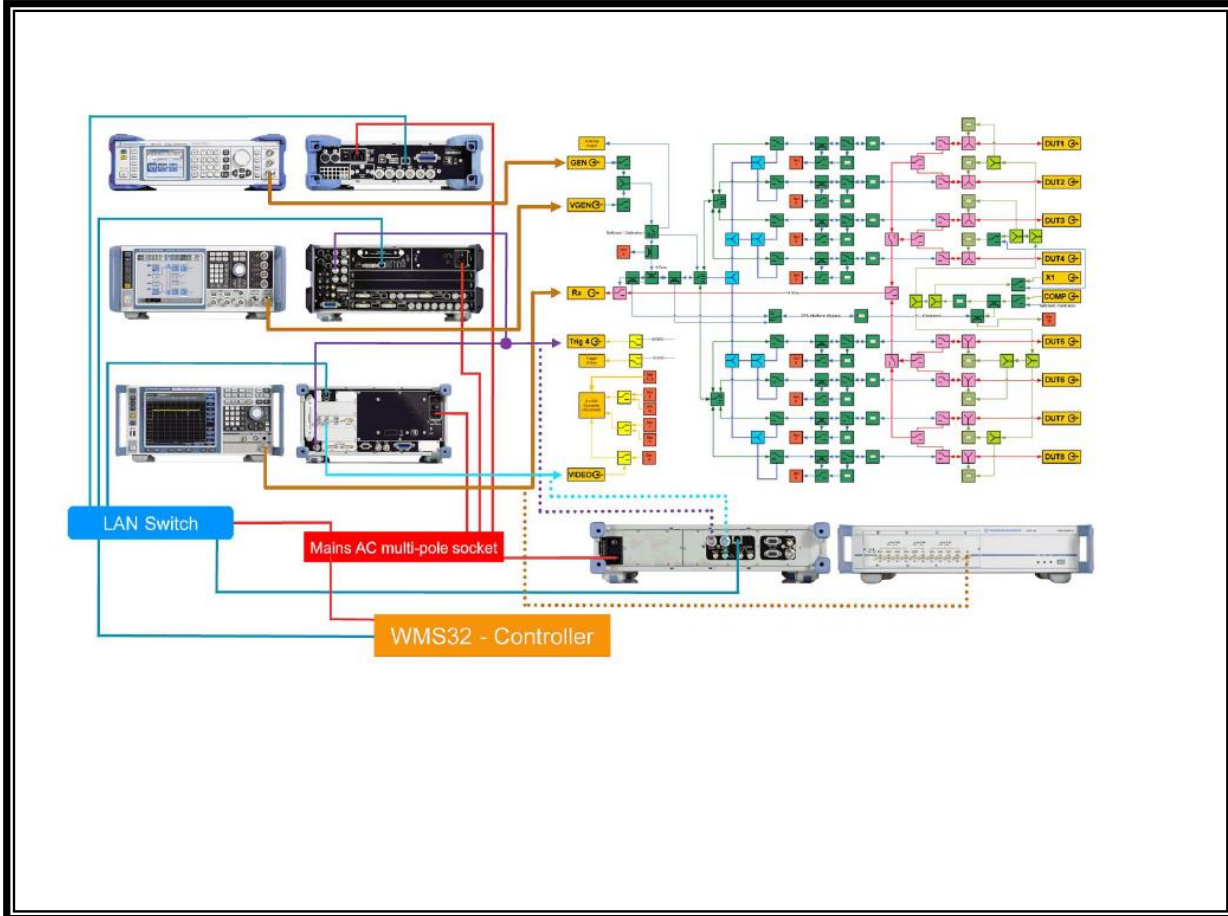
The EUT can work in engineering mode with software through a Laptop.

SETUP DIAGRAM FOR TESTS



5.8. TEST SYSTEM CONFIGURATION

R&S TS 8997 Test System





5.9. MEASURING INSTRUMENT AND SOFTWARE USED

| Conducted Emissions | | | | | | |
|-------------------------------------|---|--------------|--------------|---------------|---------------|---------------|
| Used | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
| <input checked="" type="checkbox"/> | EMI Test Receiver | R&S | ESR3 | 101961 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Two-Line V-Network | R&S | ENV216 | 101983 | Dec.12,2017 | Dec.11,2018 |
| Software | | | | | | |
| Used | Description | Manufacturer | Name | Version | | |
| <input checked="" type="checkbox"/> | Test Software for Conducted disturbance | UL | Antenna port | Ver. 7.2 | | |
| Radiated Emissions | | | | | | |
| Used | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
| <input checked="" type="checkbox"/> | MXE EMI Receiver | KESIGHT | N9038A | MY56400036 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Hybrid Log Periodic Antenna | TDK | HLP-3003C | 130960 | Jan.09, 2016 | Jan.09, 2019 |
| <input checked="" type="checkbox"/> | Preamplifier | HP | 8447D | 2944A09099 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | EMI Measurement Receiver | R&S | ESR26 | 101377 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Signal Analyzer | R&S | FSV40 | A1512015 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Horn Antenna | TDK | HRN-0118 | 130939 | Jan. 09, 2016 | Jan. 09, 2019 |
| <input checked="" type="checkbox"/> | High Gain Horn Antenna | Schwarzbeck | BBHA-9170 | 691 | Jan.06, 2016 | Jan.06, 2019 |
| <input checked="" type="checkbox"/> | Preamplifier | TDK | PA-02-0118 | TRS-305-00066 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Preamplifier | TDK | PA-02-2 | TRS-307-00003 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Preamplifier | TDK | PA-02-3 | TRS-308-00002 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Loop antenna | Schwarzbeck | 1519B | 00008 | Mar. 26, 2016 | Mar. 26, 2019 |
| Software | | | | | | |
| Used | Description | Manufacturer | Name | Version | | |
| <input checked="" type="checkbox"/> | Test Software for Radiated disturbance | Farad | EZ-EMC | Ver. UL-3A1 | | |



| ANTENNA PORT (R&S TS 8997 Test System) | | | | | | |
|---|-----------------------------|-----------------|------------|----------------|-------------|-------------|
| Used | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due. Date |
| <input checked="" type="checkbox"/> | Power sensor, Power Meter | R&S | OSP-B157W8 | 100921 | Apr.28,2018 | Apr.27,2019 |
| <input checked="" type="checkbox"/> | Vector Signal Generator | R&S | SMBV100A | 261637 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Signal Generator | R&S | SMB100A | 178553 | Dec.12,2017 | Dec.11,2018 |
| <input checked="" type="checkbox"/> | Signal Analyzer | R&S | FSV40 | A1512015 | Dec.12,2017 | Dec.11,2018 |
| Software | | | | | | |
| Used | Description | Manufacturer | Name | | Version | |
| <input checked="" type="checkbox"/> | For R&S TS 8997 Test System | Rohde & Schwarz | VMS32 | | V10.38 | |
| Other instruments | | | | | | |
| Used | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
| <input checked="" type="checkbox"/> | Spectrum Analyzer | Keysight | N9030A | MY55410 512 | Dec.12,2017 | Dec.11,2018 |



6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

RESULTS

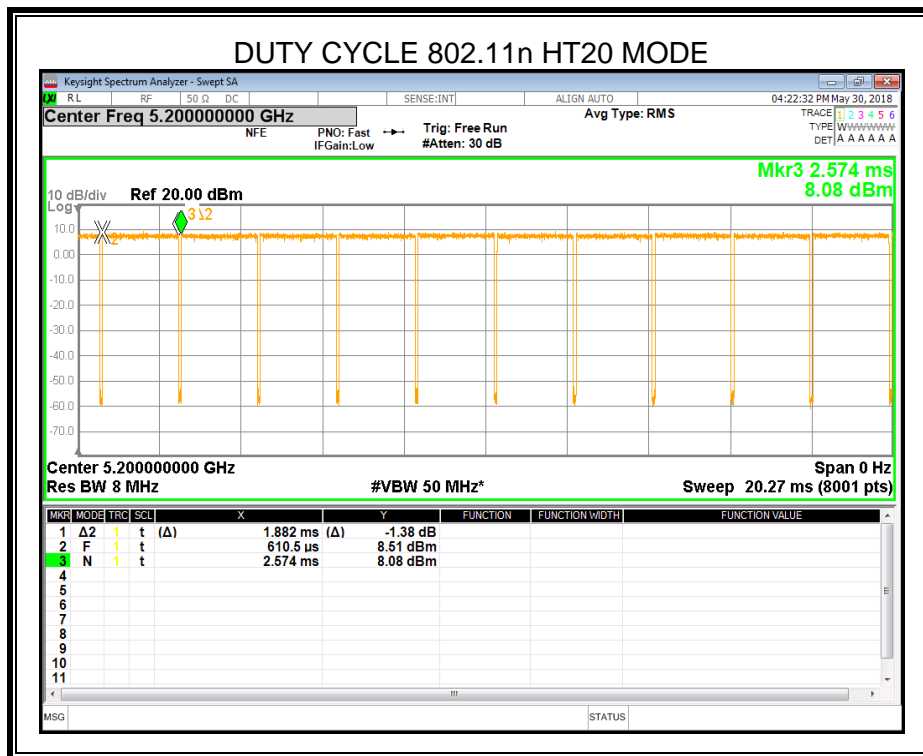
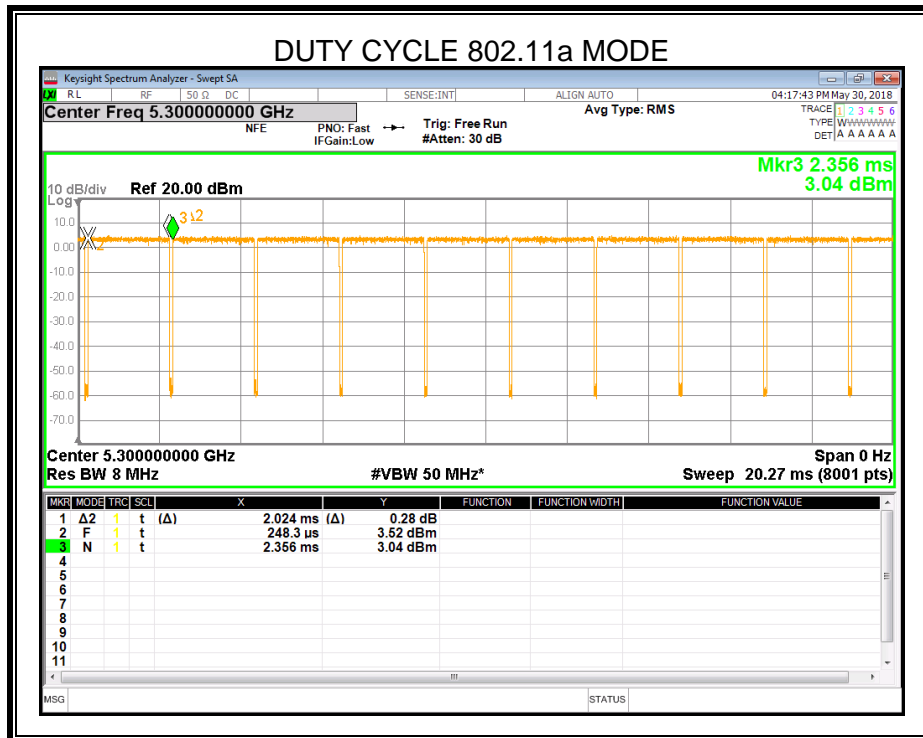
ANTENNA2

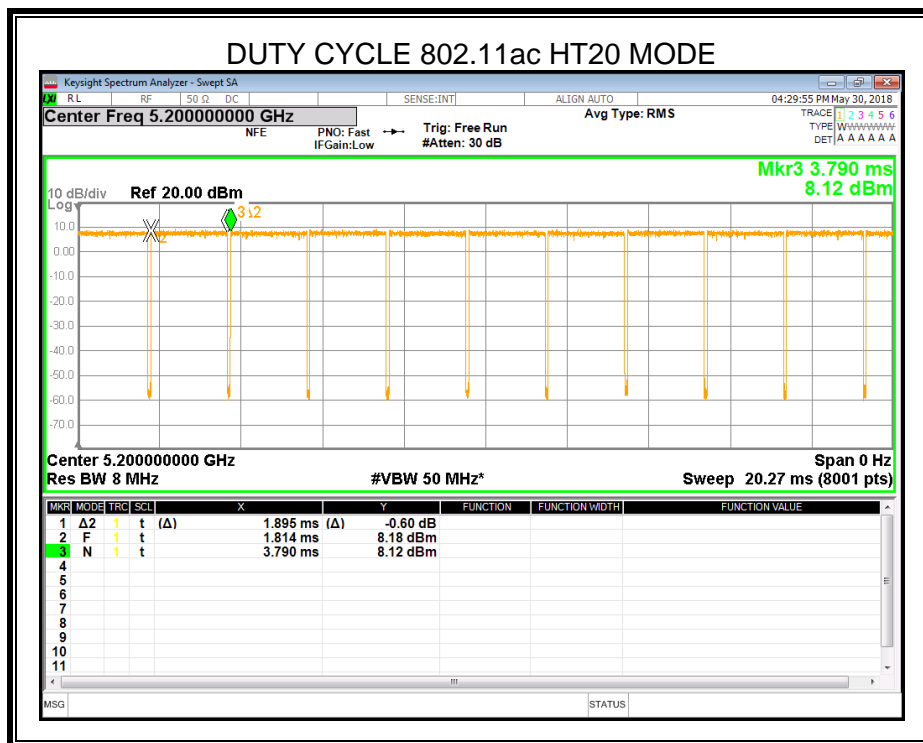
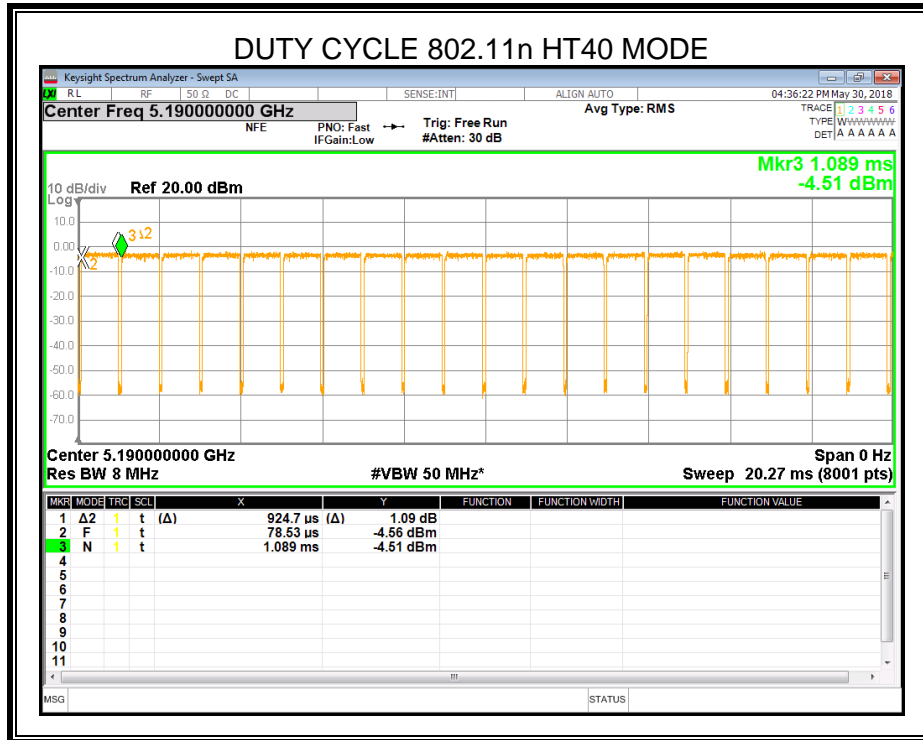
| Mode | ON Time (ms) | Period (ms) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (KHz) | Final setting For VBW (KHz) |
|-----------|--------------|-------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11a | 2.024 | 2.108 | 0.96028847 | 96 | 0.18 | 0.49 | 0.5 |
| 11n HT20 | 1.882 | 1.964 | 0.95849248 | 96 | 0.18 | 0.53 | 1 |
| 11n HT40 | 0.925 | 1.010 | 0.91584158 | 92 | 0.38 | 1.08 | 2 |
| 11ac HT20 | 1.895 | 1.976 | 0.95900809 | 96 | 0.18 | 0.53 | 1 |
| 11ac HT40 | 0.930 | 1.009 | 0.92170465 | 92 | 0.35 | 1.08 | 2 |
| 11ac HT80 | 0.448 | 0.527 | 0.85009487 | 85 | 0.71 | 2.23 | 3 |

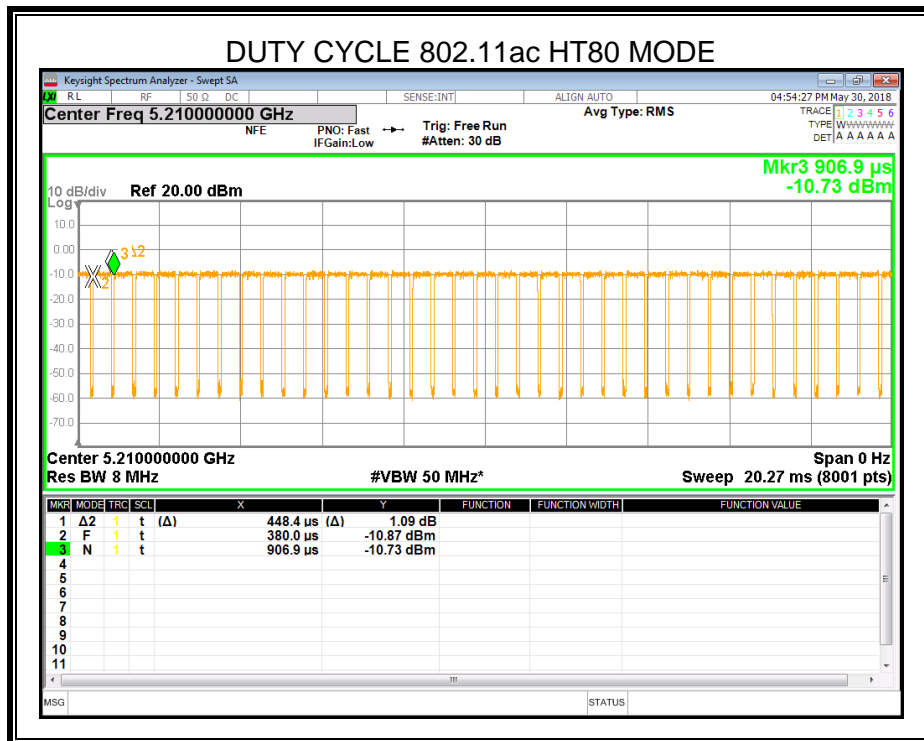
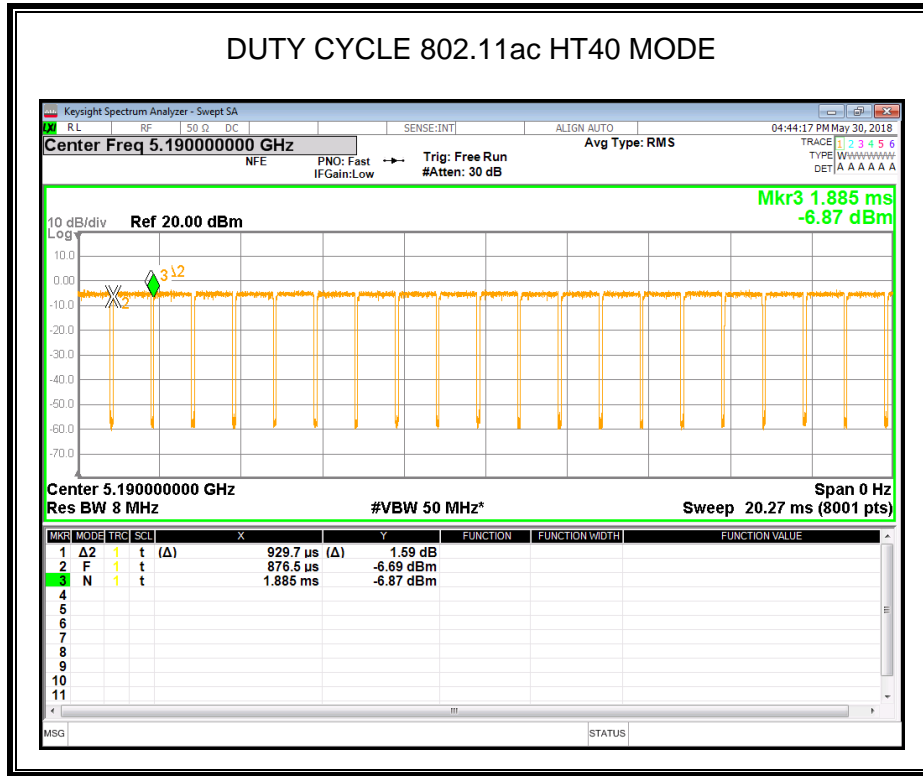
Note: Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle(Linear)

Antenna 0, Antenna 1 and Antenna 2 has the same duty cycle, only Antenna 2 data show here.







6.2. 6/26/99% dB BANDWIDTH

LIMITS

| FCC Part15, Subpart E/ RSS-247 | | |
|--------------------------------|------------------------------|--|
| Test Item | Limit | Frequency Range (MHz) |
| Bandwidth | 26 dB Bandwidth | 5150-5250 |
| | 26 dB Bandwidth | 5250-5350 |
| | 26 dB Bandwidth | For FCC:5470-5725 For IC:5470-5600 5650-5725 |
| | Minimum 500kHz 6dB Bandwidth | 5725-5850 |

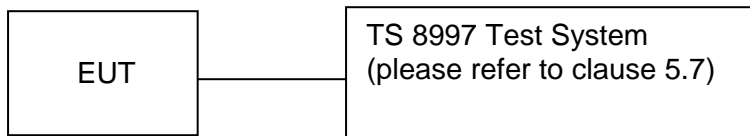
TEST PROCEDUREC

Connect the UUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | Peak |
| RBW | For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth. For 99% occupied bandwidth: approximately 1%~5% of the emission bandwidth. |
| VBW | For 6dB Bandwidth : VBW=300kHz For 26dB Bandwidth : ≥3RBW For 99% occupied bandwidth : ≥ >3RBW |
| Trace | Max hold |
| Sweep | Auto couple |

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB and 99% occupied bandwidth relative to the maximum level measured in the fundamental emission.

TEST SETUP



RESULTS

Note: For 99% occupied bandwidth, both SISO mode and MIMO mode have been tested, The data of SISO mode is worse case The power transmitted by a single chain in MIMO mode is smaller than that in SISO mode, only the worst data (SISO mode) recorded in the report.

TEST PLOT FOR ANTENNA 2

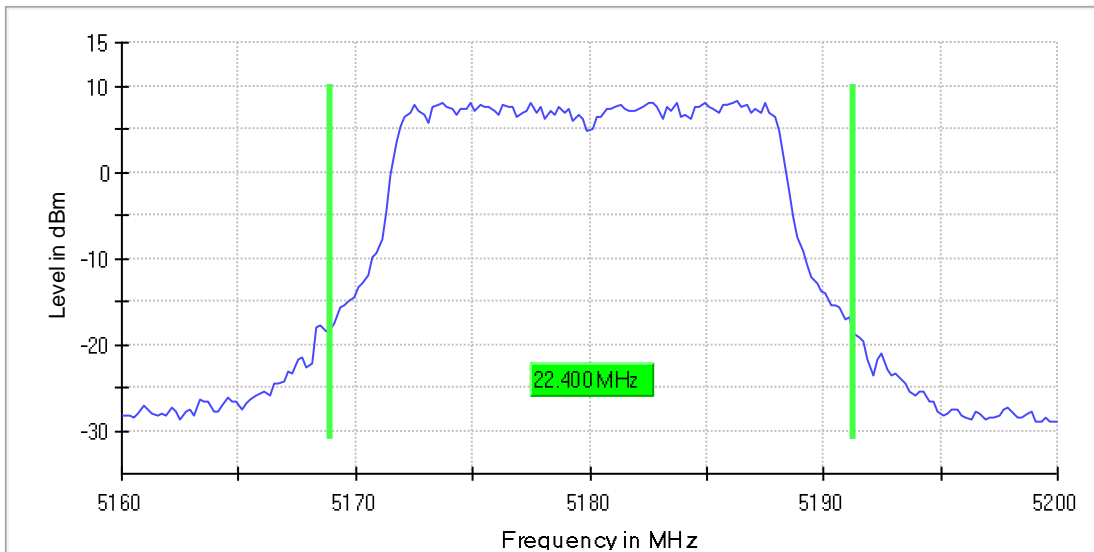
6.2.1. 802.11a SISO MODE

6.2.1.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.000000 | 22.400000 | --- | --- | 5168.900000 | 5191.300000 | 8.2 |

| (DUT Frequency (MHz)) | Result |
|-----------------------|--------|
| 5180.000000 | PASS |

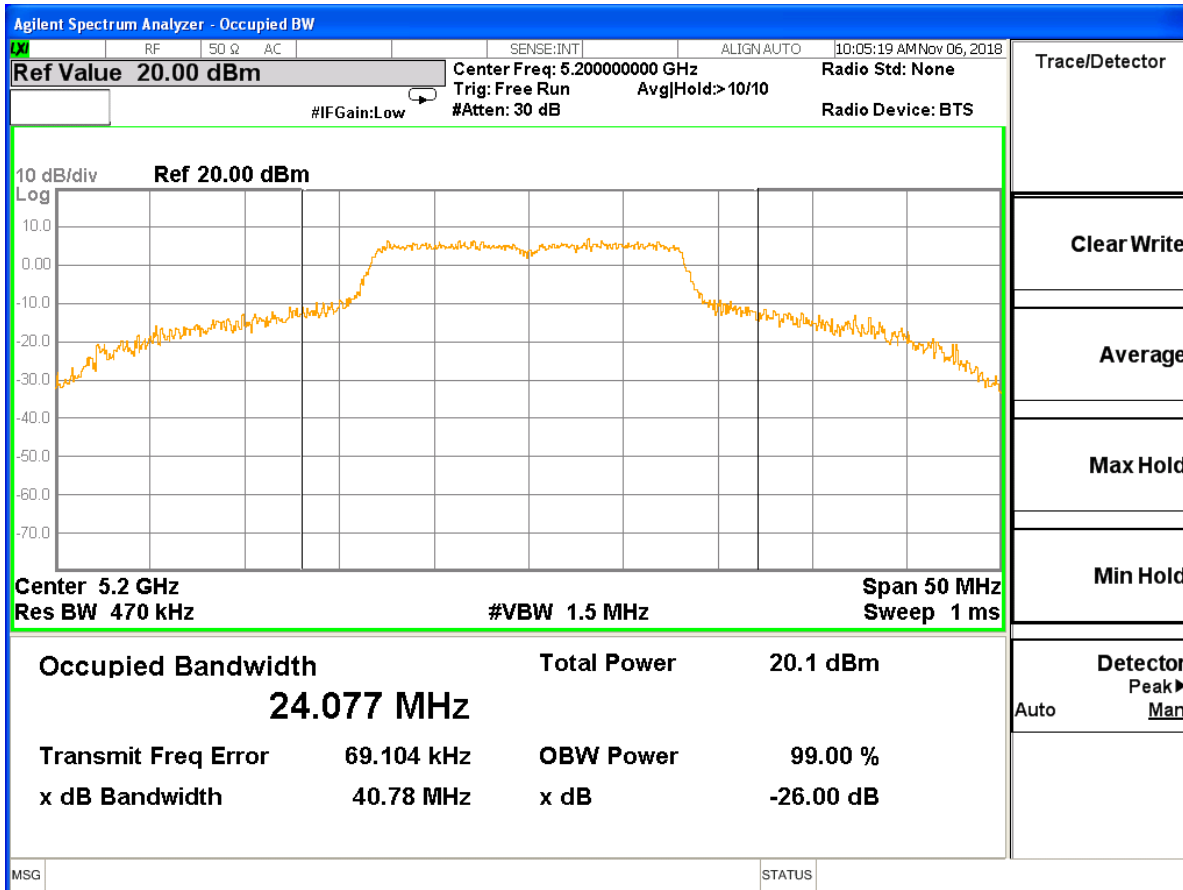




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5200.000000 | 40.78 | --- | --- |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |

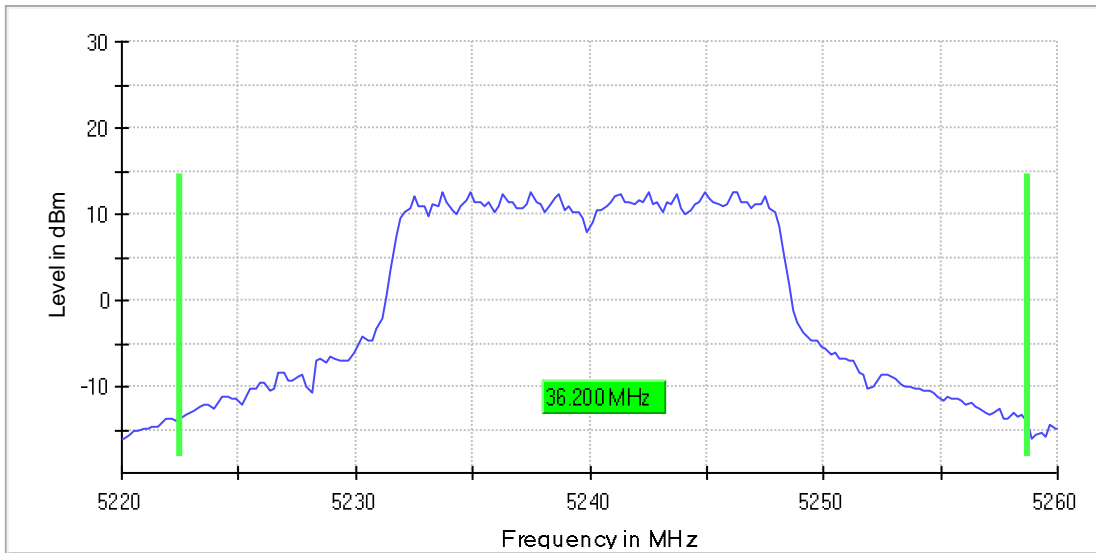




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5240.000000 | 36.200000 | --- | --- | 5222.500000 | 5258.700000 |

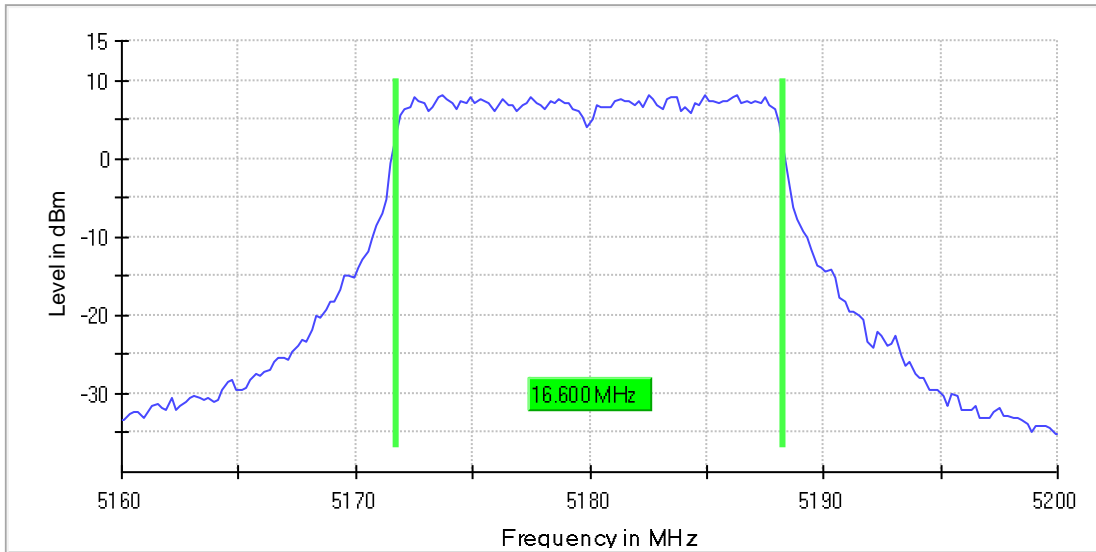
| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5240.000000 | 12.6 | PASS |





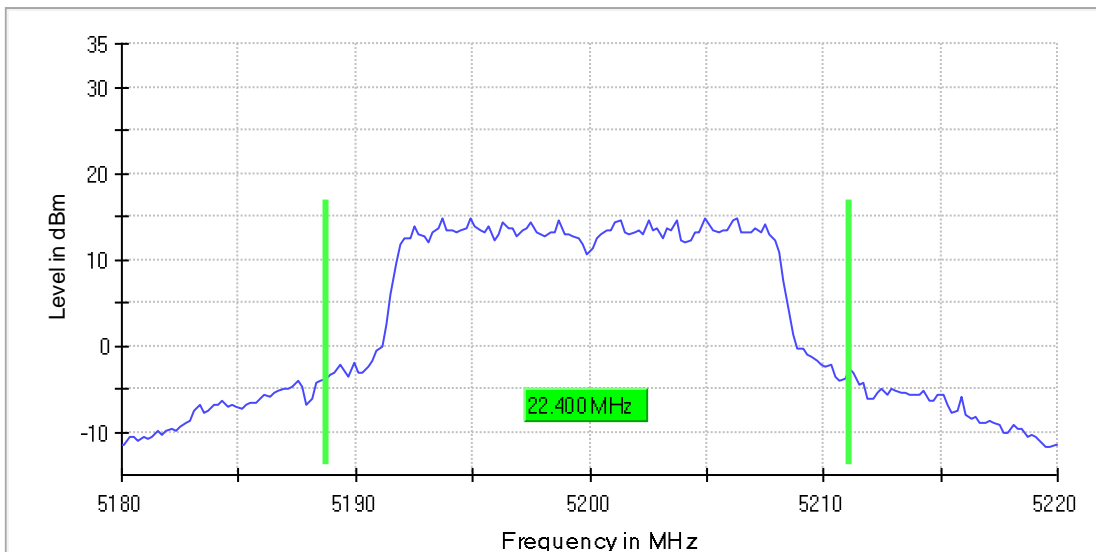
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5180.000000 | 16.600000 | --- | --- | 5171.700000 | 5188.300000 | PASS |



99 % Bandwidth

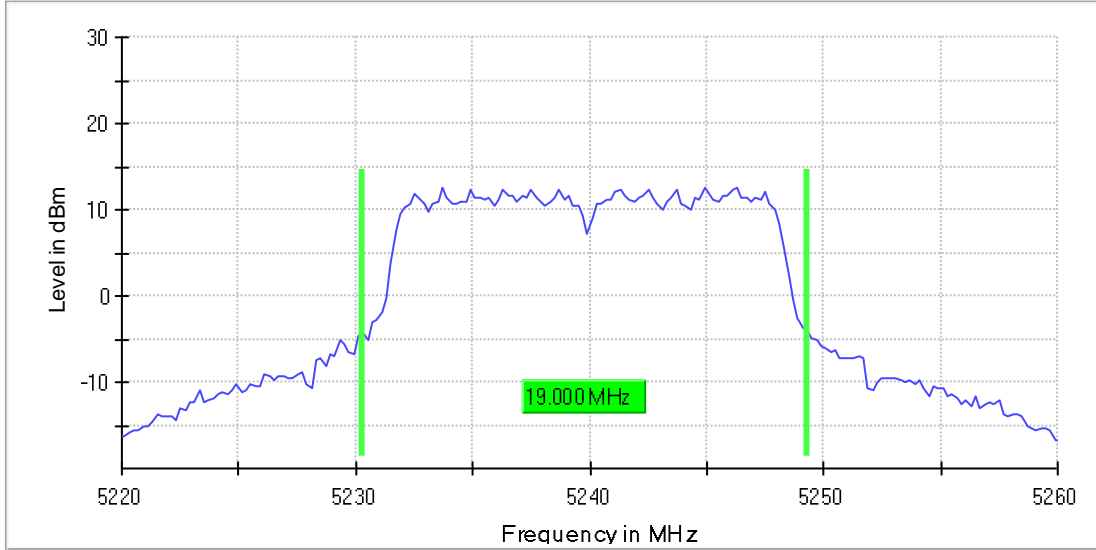
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5200.000000 | 22.400000 | --- | --- | 5188.700000 | 5211.100000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5240.000000 | 19.000000 | --- | --- | 5230.300000 | 5249.300000 | PASS |



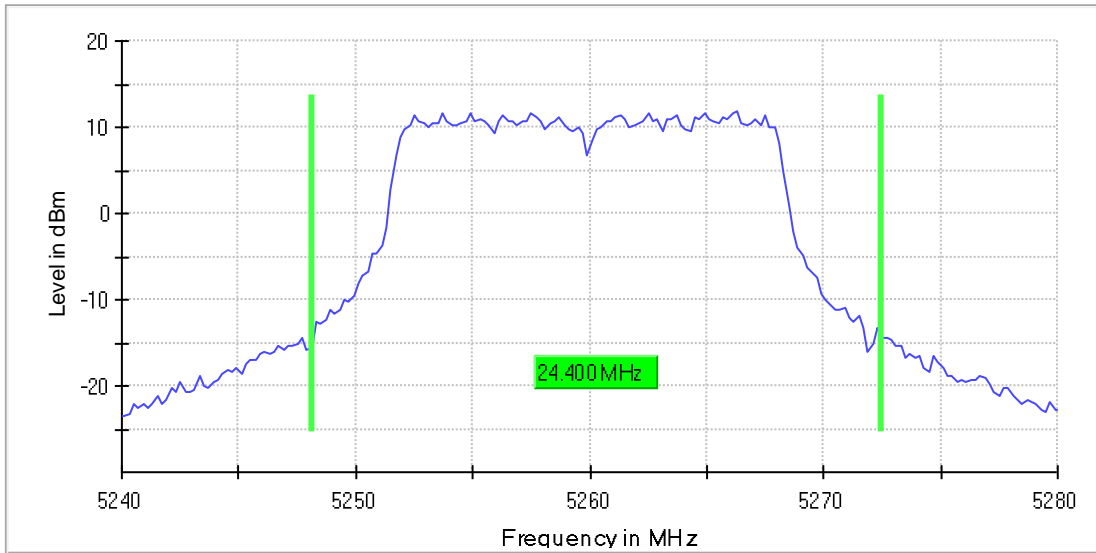


6.2.1.1. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 24.400000 | --- | --- | 5248.100000 | 5272.500000 | 11.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

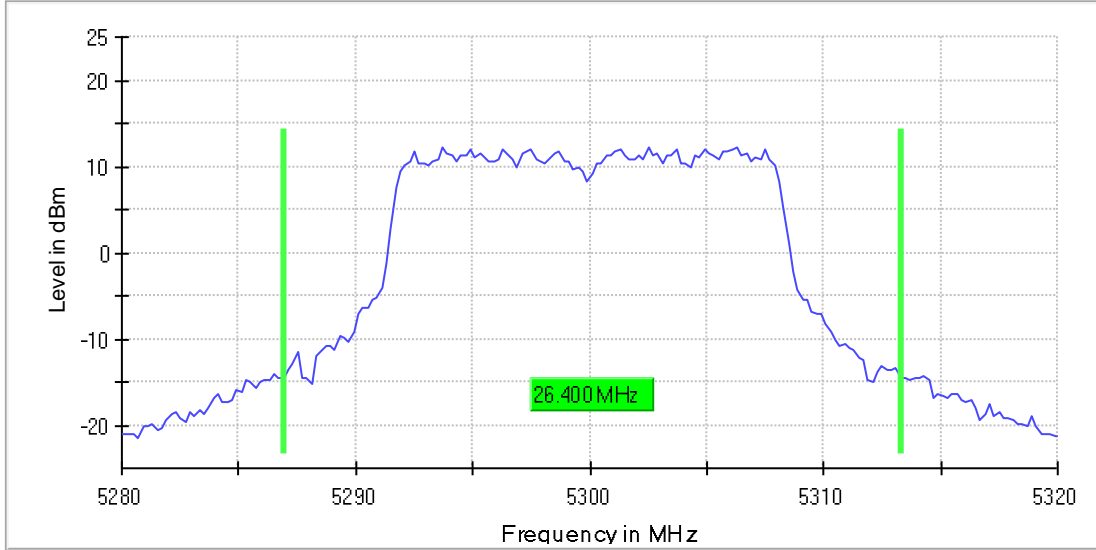




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 26.400000 | --- | --- | 5286.900000 | 5313.300000 | 12.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

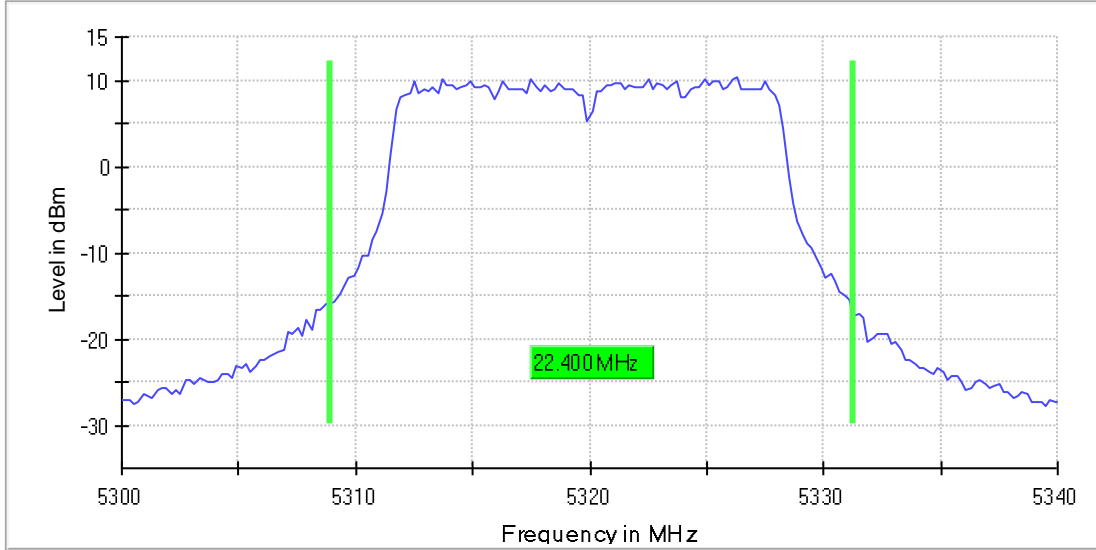




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 22.400000 | --- | --- | 5308.900000 | 5331.300000 | 10.3 |

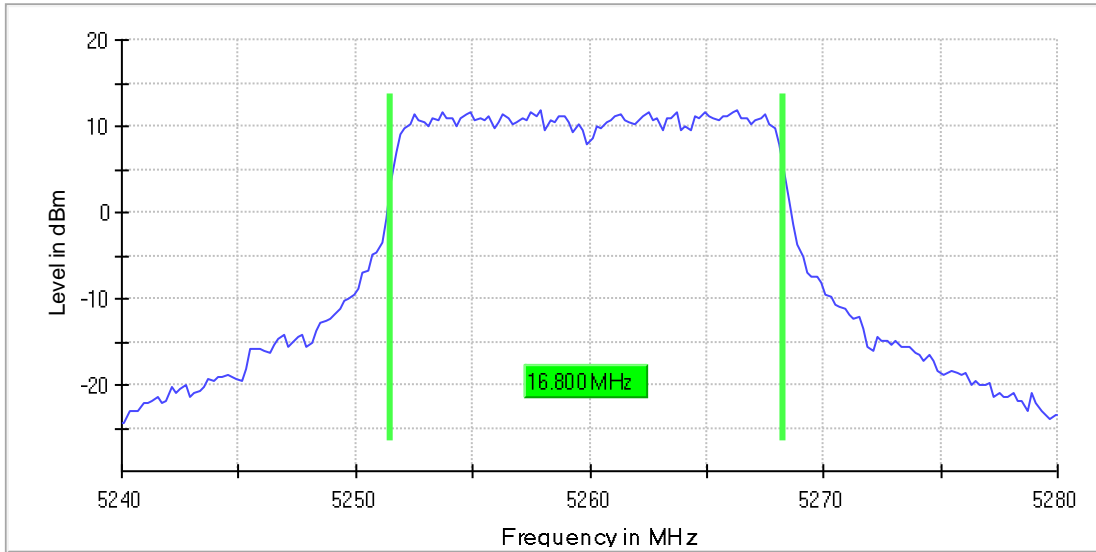
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |





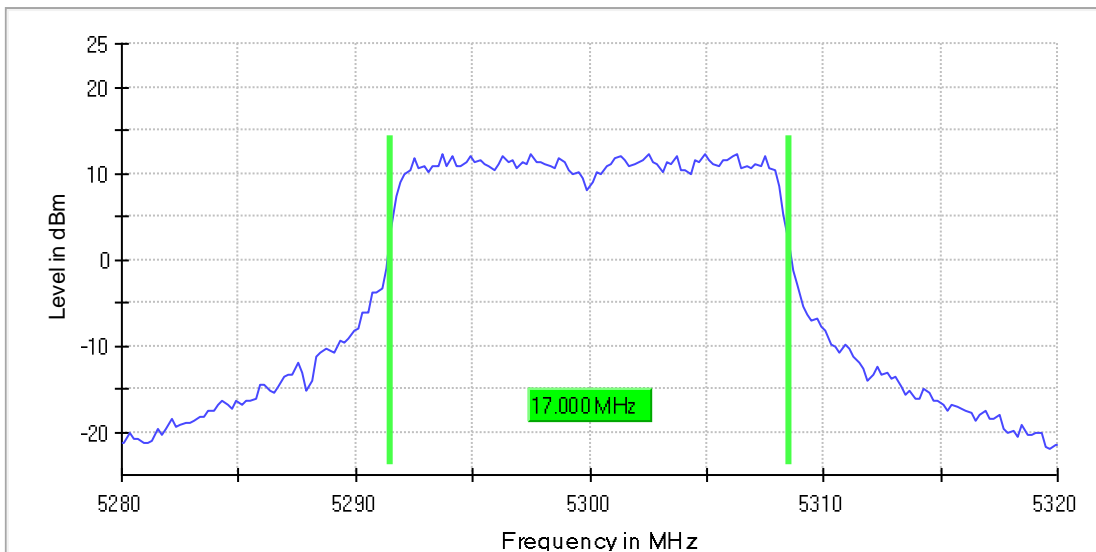
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5260.000000 | 16.800000 | --- | --- | 5251.500000 | 5268.300000 | PASS |



99 % Bandwidth

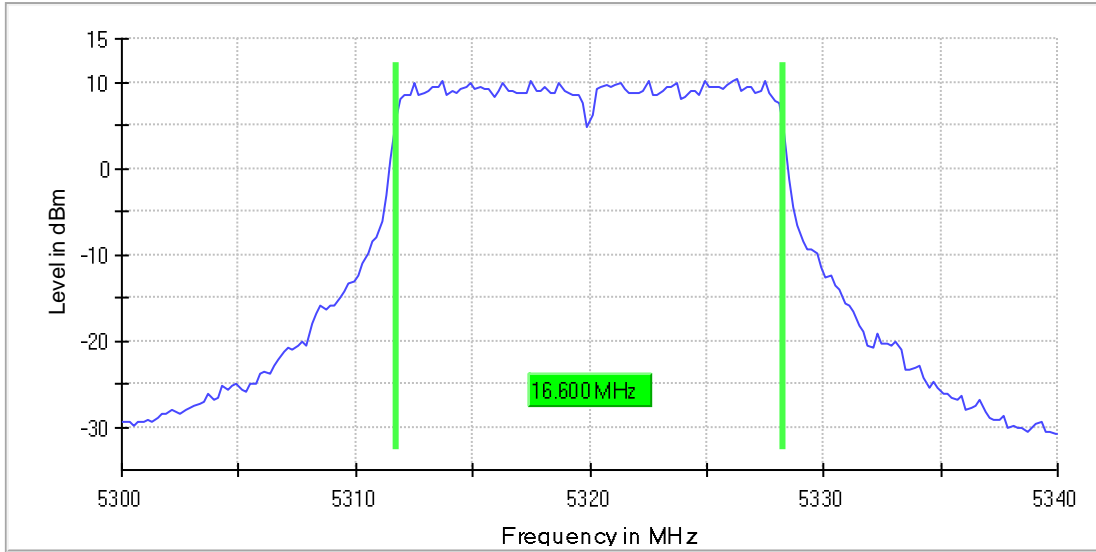
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5300.000000 | 17.000000 | --- | --- | 5291.500000 | 5308.500000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5320.000000 | 16.600000 | --- | --- | 5311.700000 | 5328.300000 | PASS |



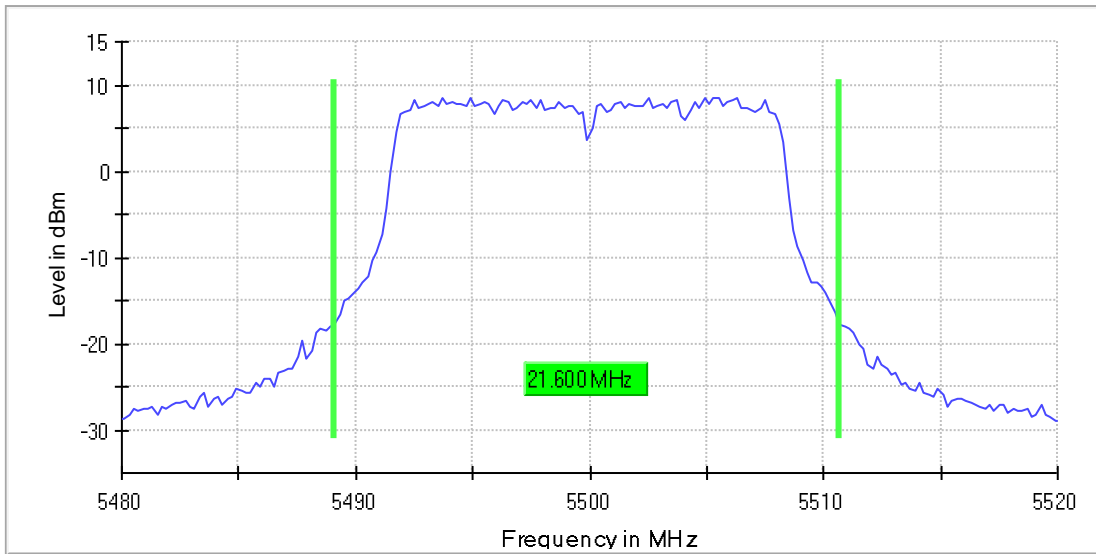


6.2.1.2. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 21.600000 | --- | --- | 5489.100000 | 5510.700000 | 8.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

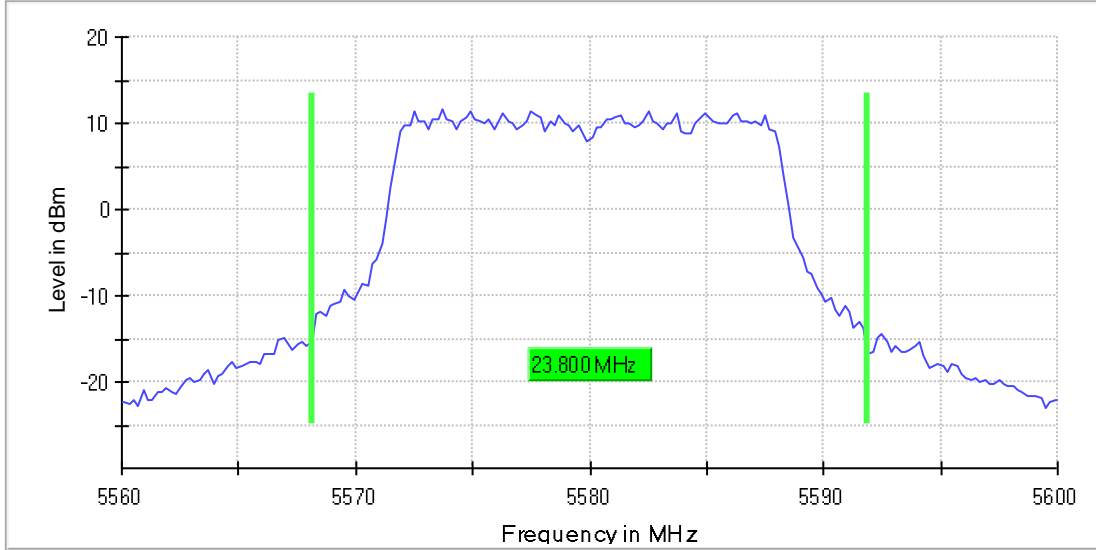




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 23.800000 | --- | --- | 5568.100000 | 5591.900000 | 11.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

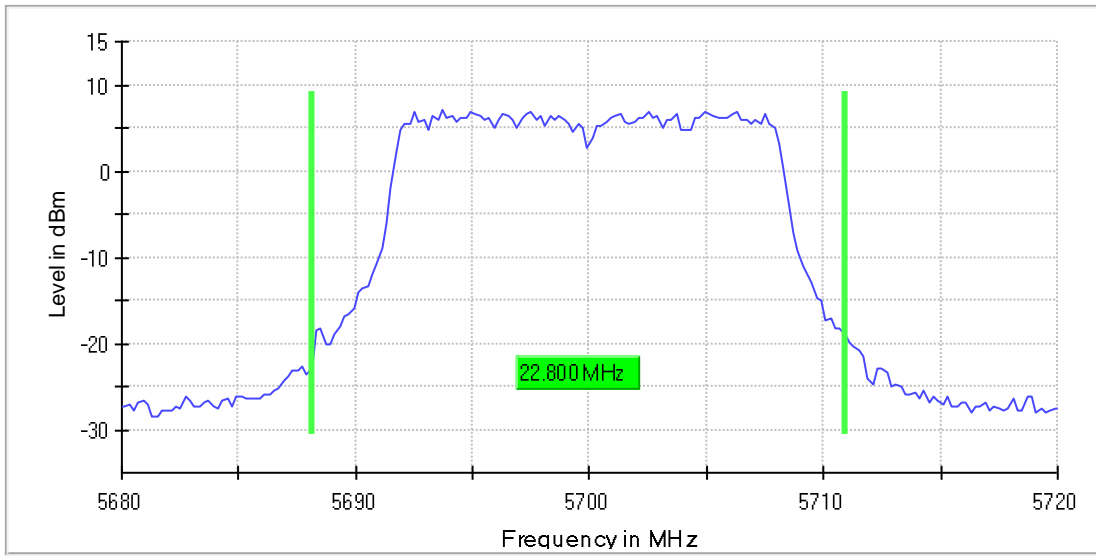




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 22.800000 | --- | --- | 5688.100000 | 5710.900000 | 7.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

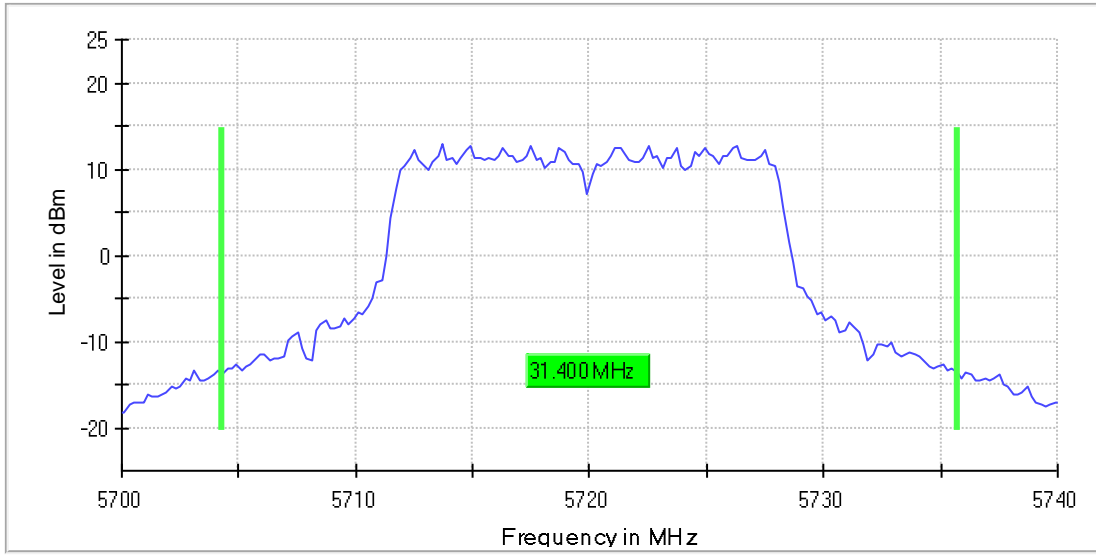




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5720.000000 | 31.400000 | --- | --- | 5704.300000 | 5735.700000 | 12.8 |

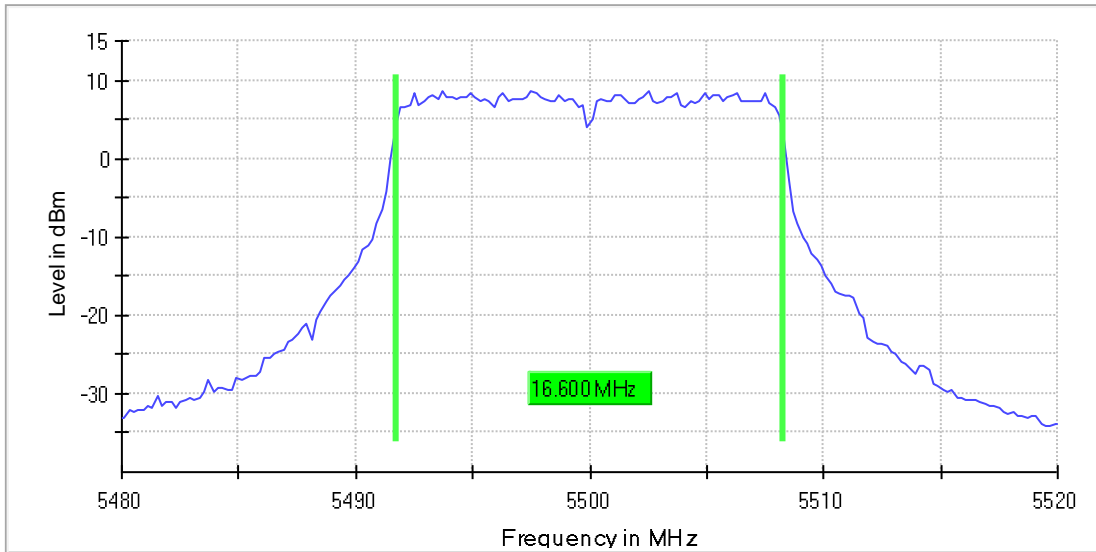
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |





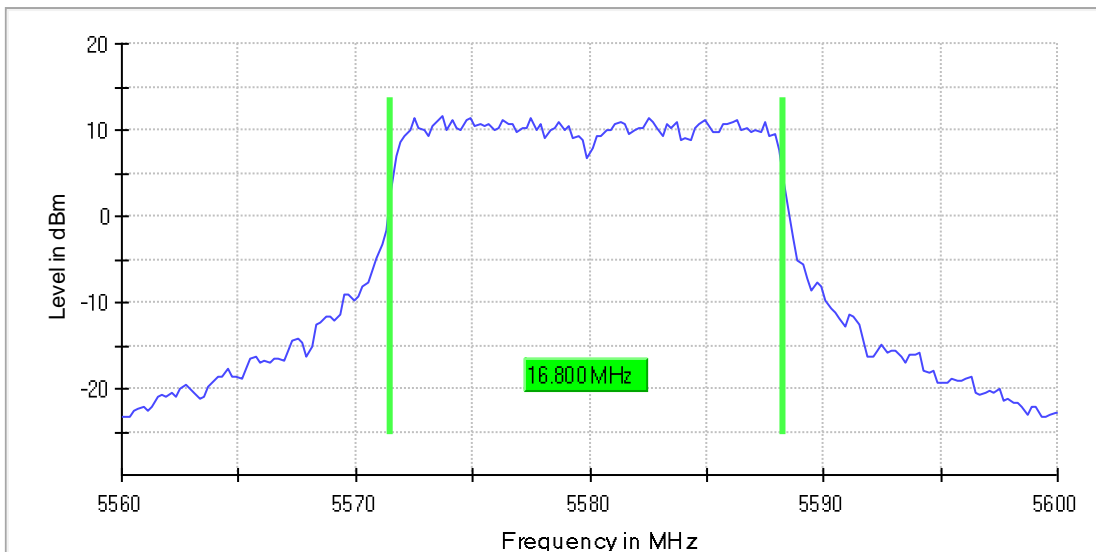
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5500.000000 | 16.600000 | --- | --- | 5491.700000 | 5508.300000 | PASS |



99 % Bandwidth

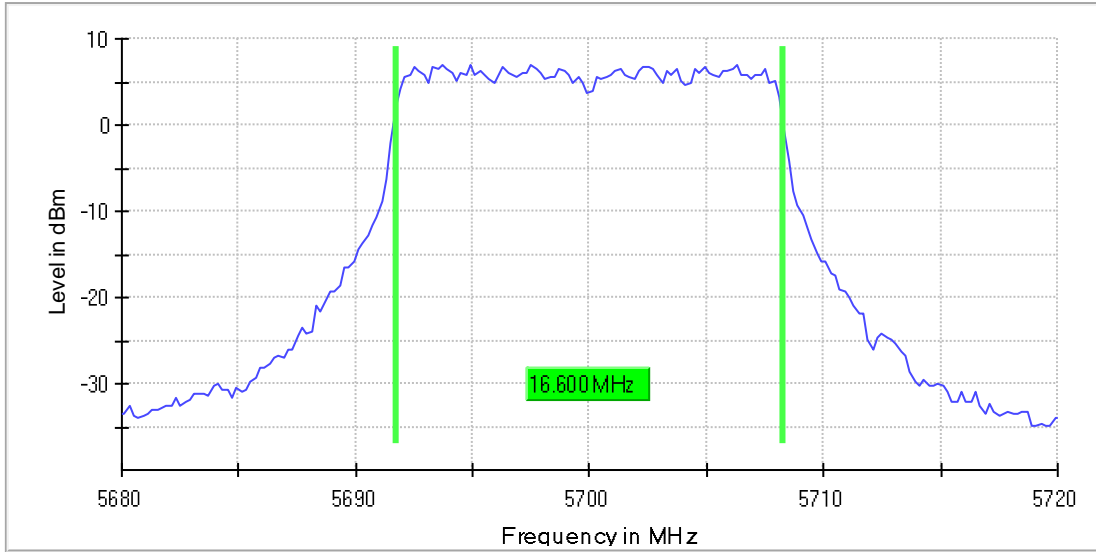
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5580.000000 | 16.800000 | --- | --- | 5571.500000 | 5588.300000 | PASS |





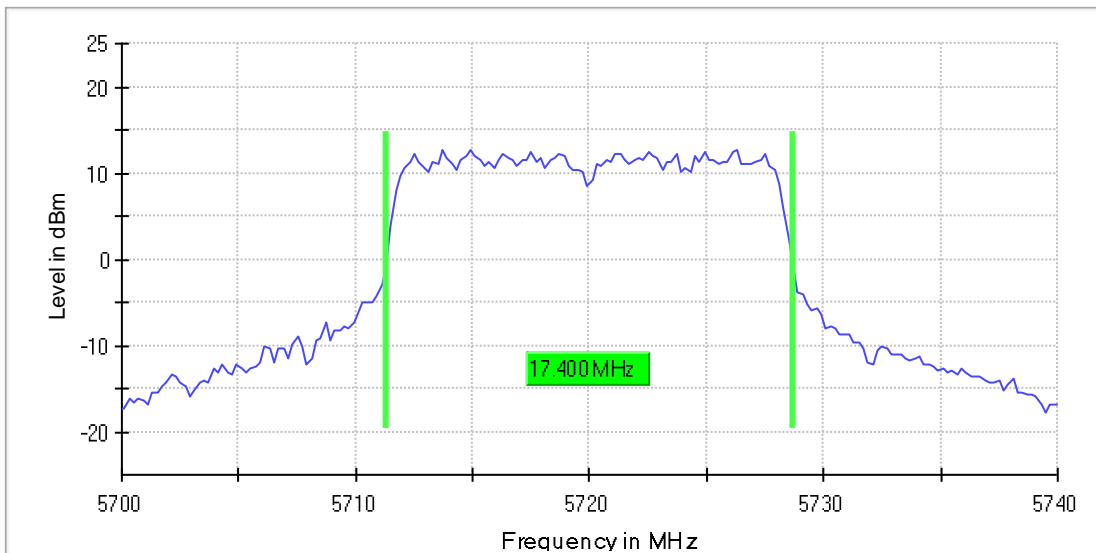
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5700.000000 | 16.600000 | --- | --- | 5691.700000 | 5708.300000 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5720.000000 | 17.400000 | --- | --- | 5711.300000 | 5728.700000 | PASS |



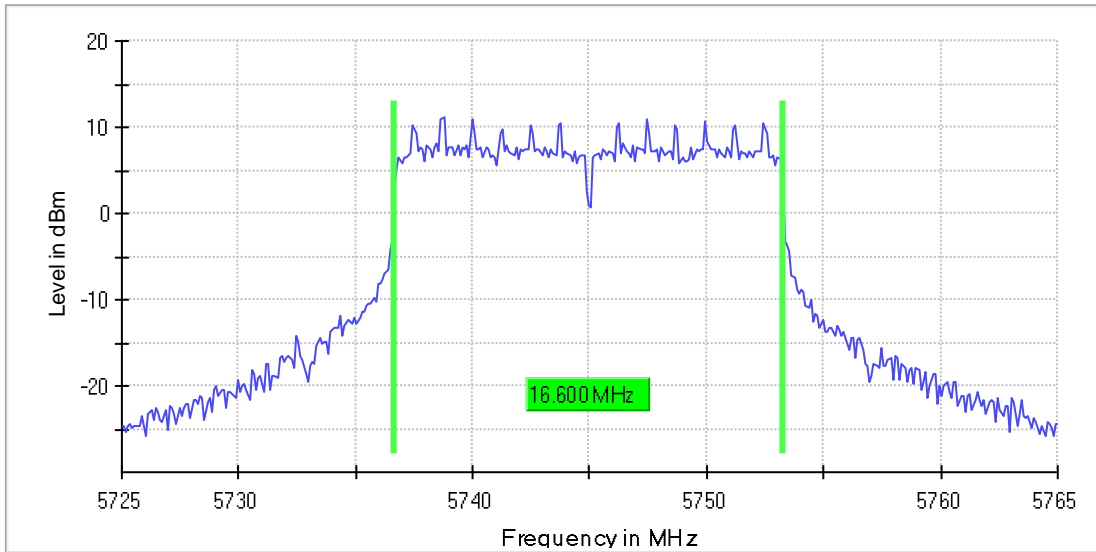


6.2.1.3. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 16.600000 | 0.500000 | --- | 5736.650000 | 5753.250000 | 11.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

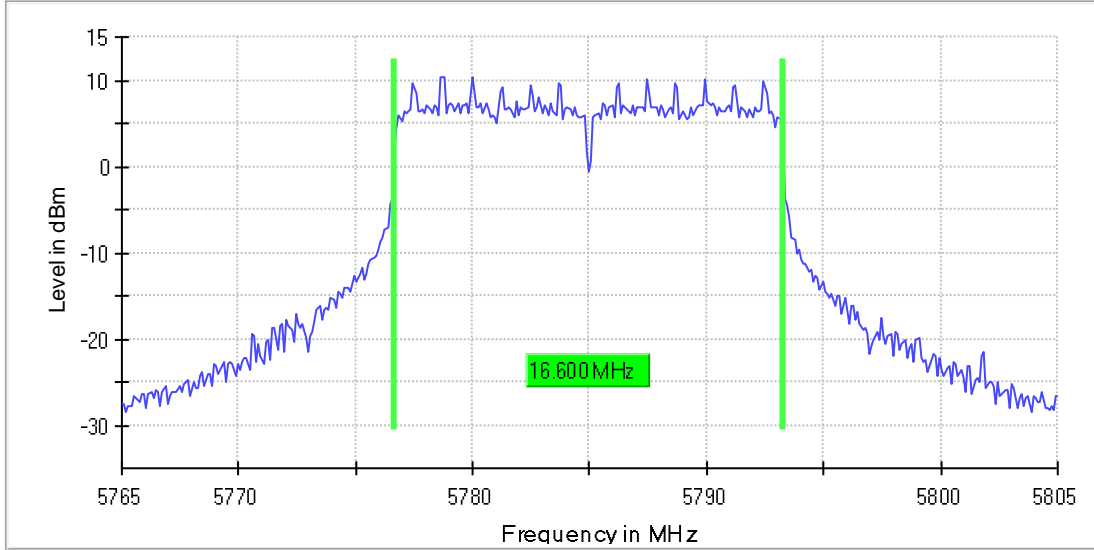




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 16.600000 | 0.500000 | --- | 5776.650000 | 5793.250000 | 10.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

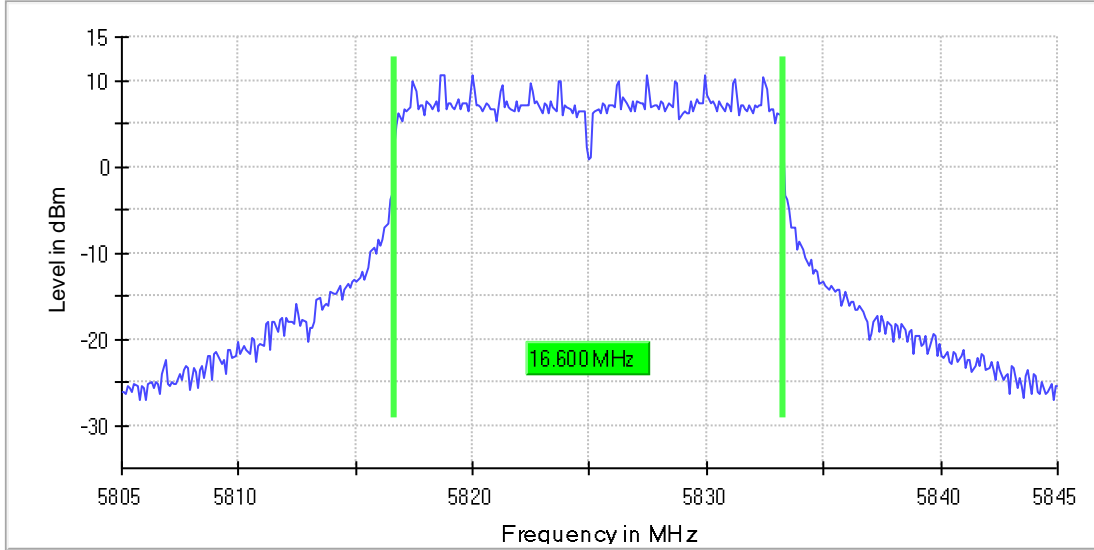




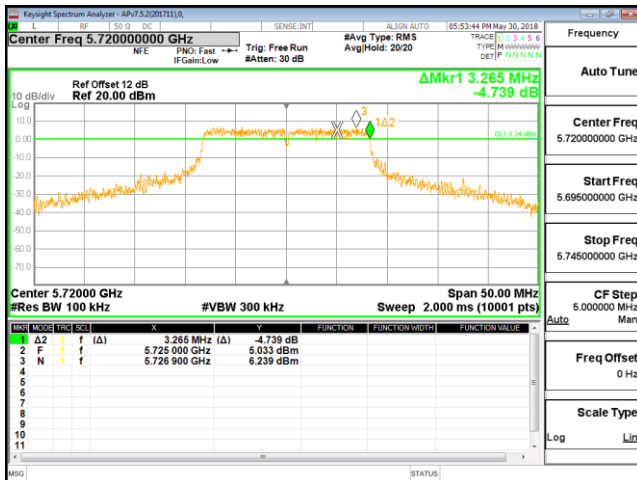
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 16.600000 | 0.500000 | --- | 5816.650000 | 5833.250000 | 10.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



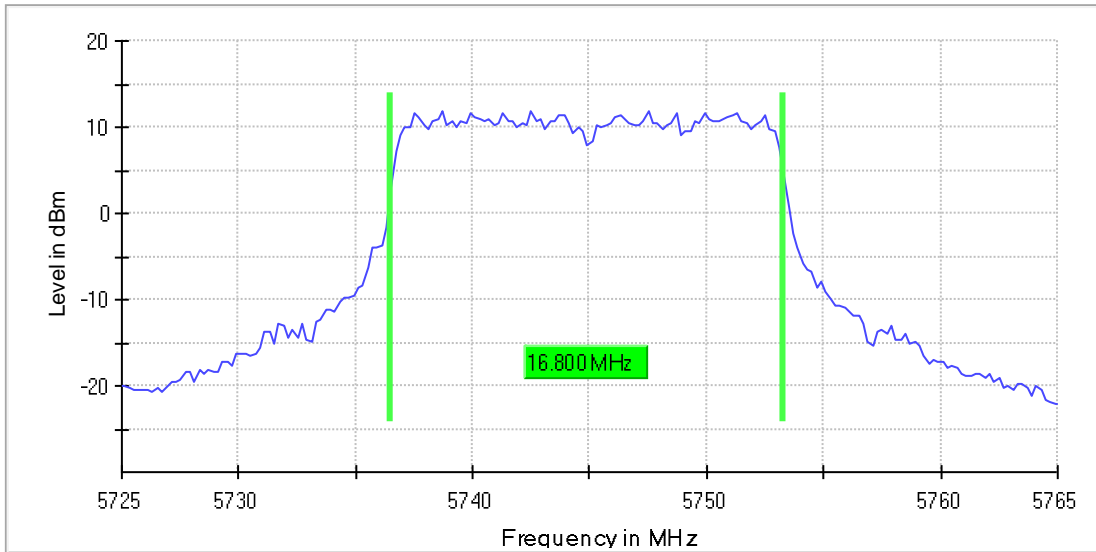
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.265 | 0.500000 | PASS |





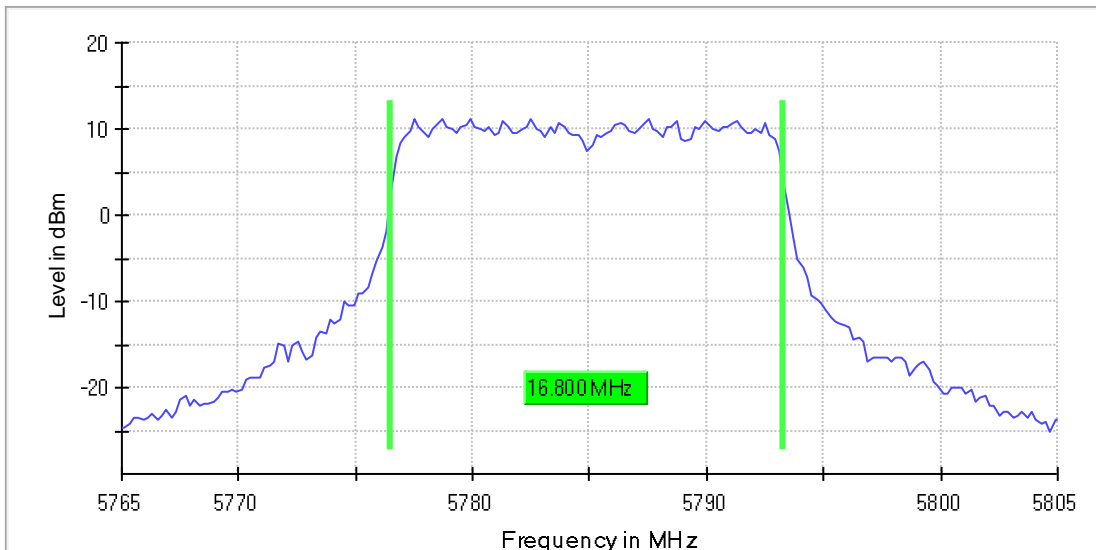
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5745.000000 | 16.800000 | --- | --- | 5736.500000 | 5753.300000 | PASS |



99 % Bandwidth

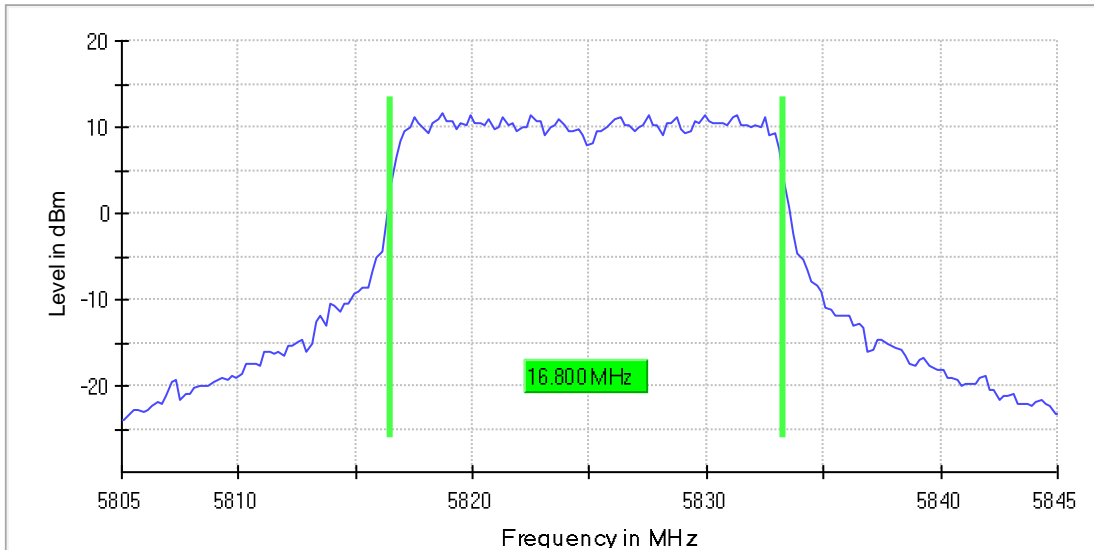
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5785.000000 | 16.800000 | --- | --- | 5776.500000 | 5793.300000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5825.00000 | 16.80000 | --- | --- | 5816.50000 | 5833.30000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



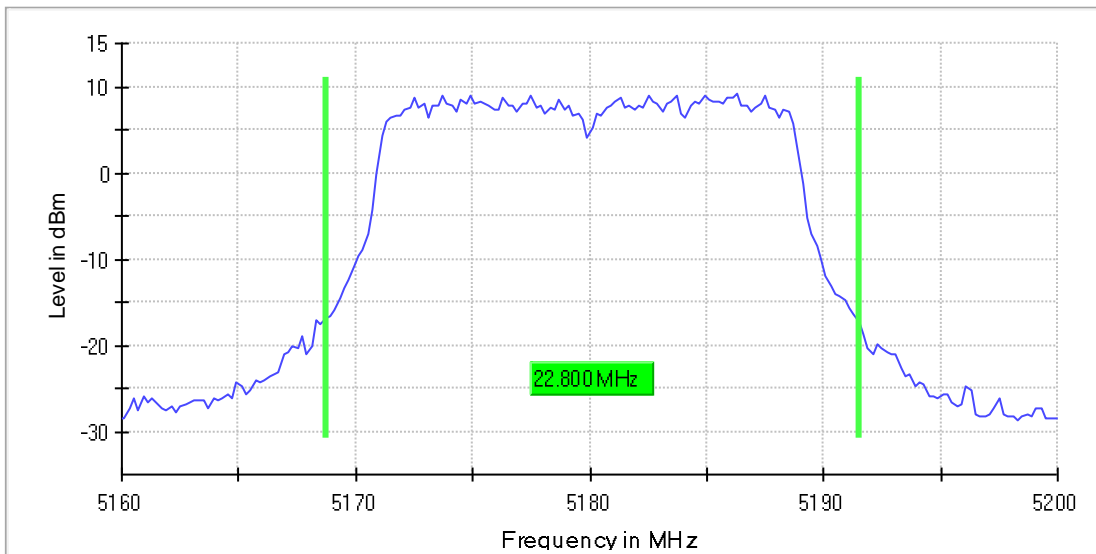
6.2.2. 802.11n HT20 SISO MODE

6.2.2.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.00000 | 22.80000 | --- | --- | 5168.70000 | 5191.50000 | 9.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5180.00000 | PASS |

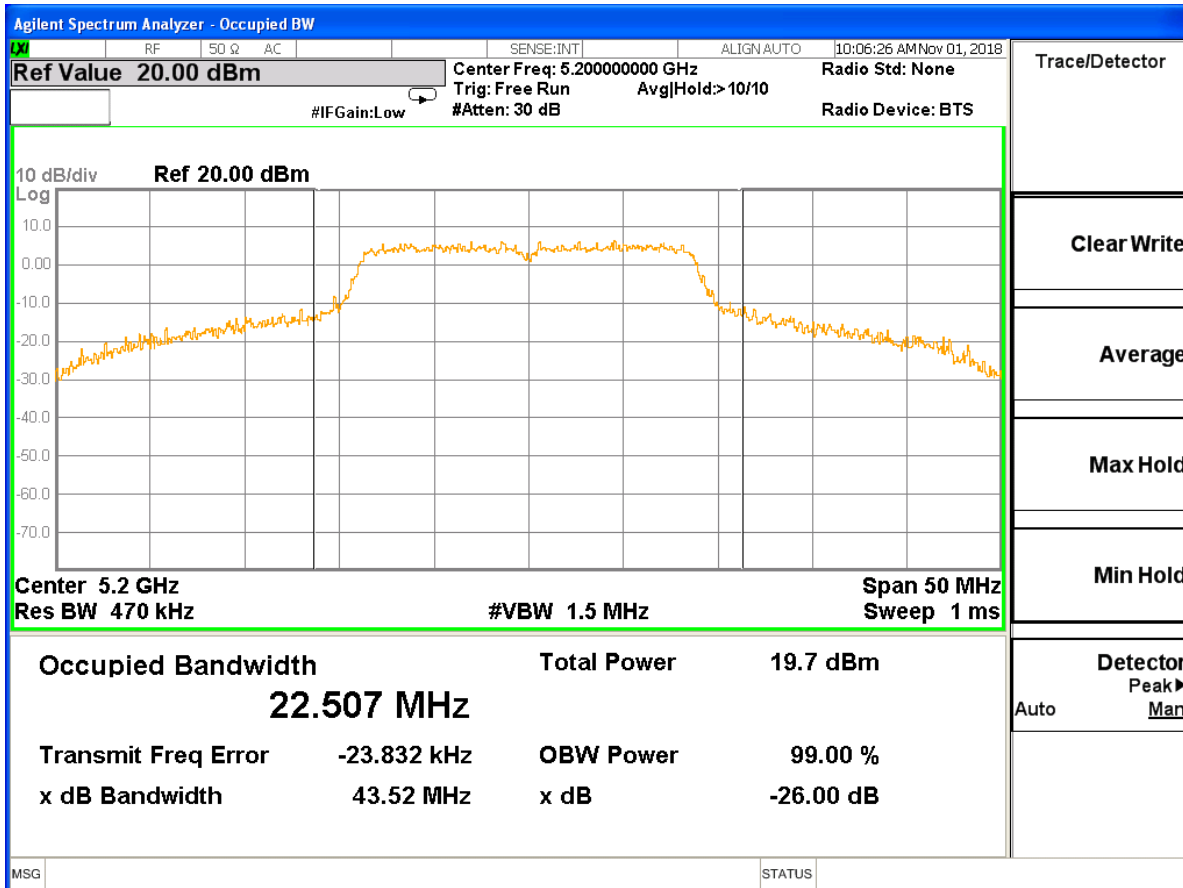




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5200.000000 | 43.52000 | --- | --- |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |

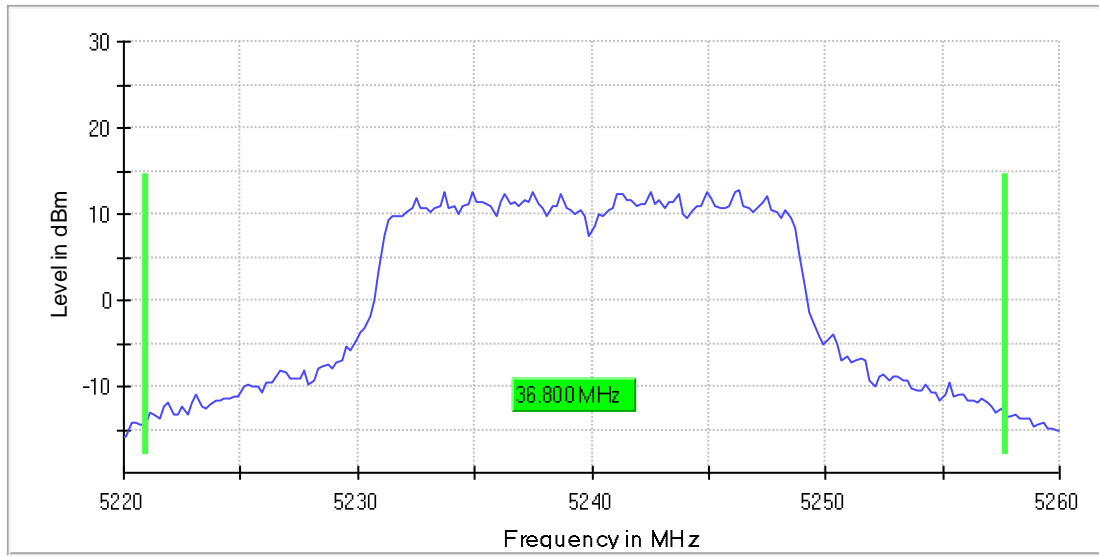




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5240.000000 | 36.800000 | --- | --- | 5220.900000 | 5257.700000 | 12.7 |

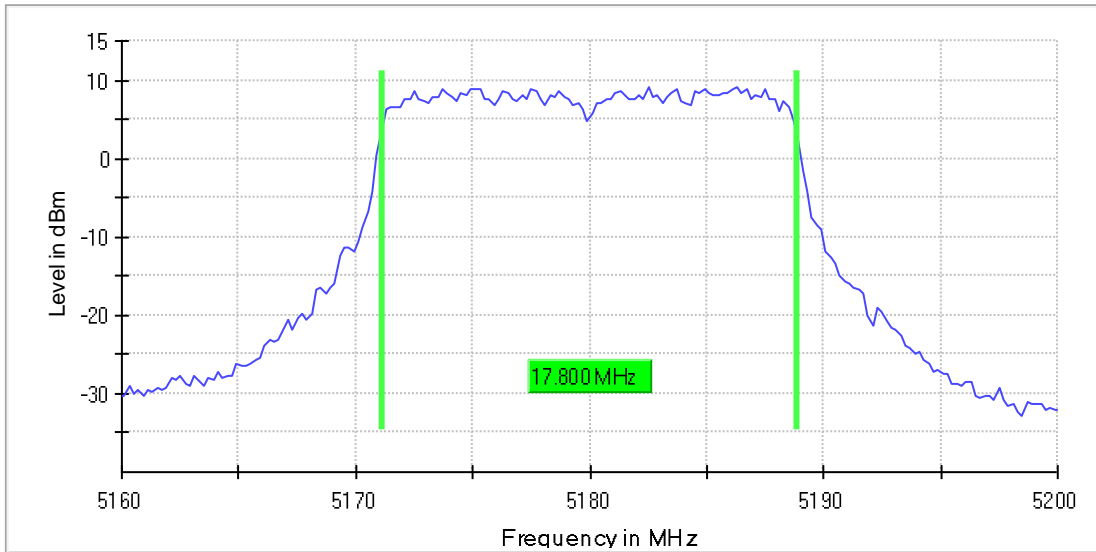
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5240.000000 | PASS |





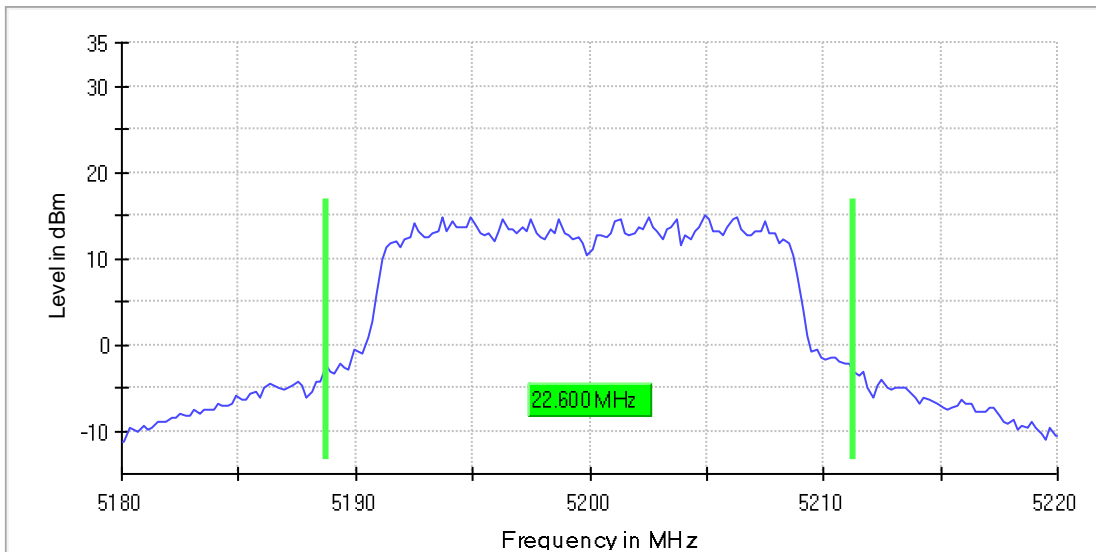
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5180.000000 | 17.800000 | --- | --- | 5171.100000 | 5188.900000 | PASS |



99 % Bandwidth

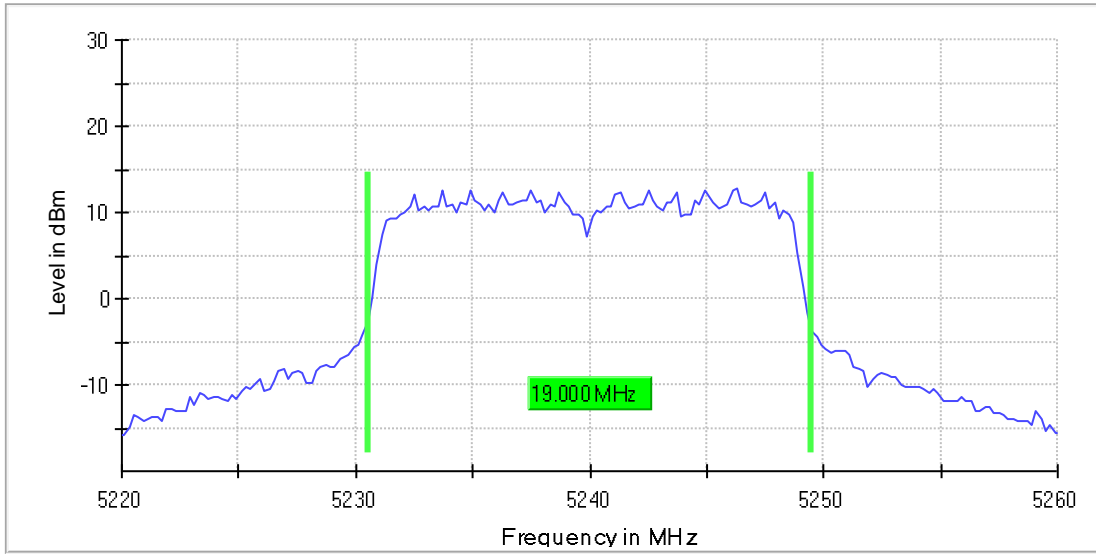
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5200.000000 | 22.600000 | --- | --- | 5188.700000 | 5211.300000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5240.000000 | 19.000000 | --- | --- | 5230.500000 | 5249.500000 | PASS |



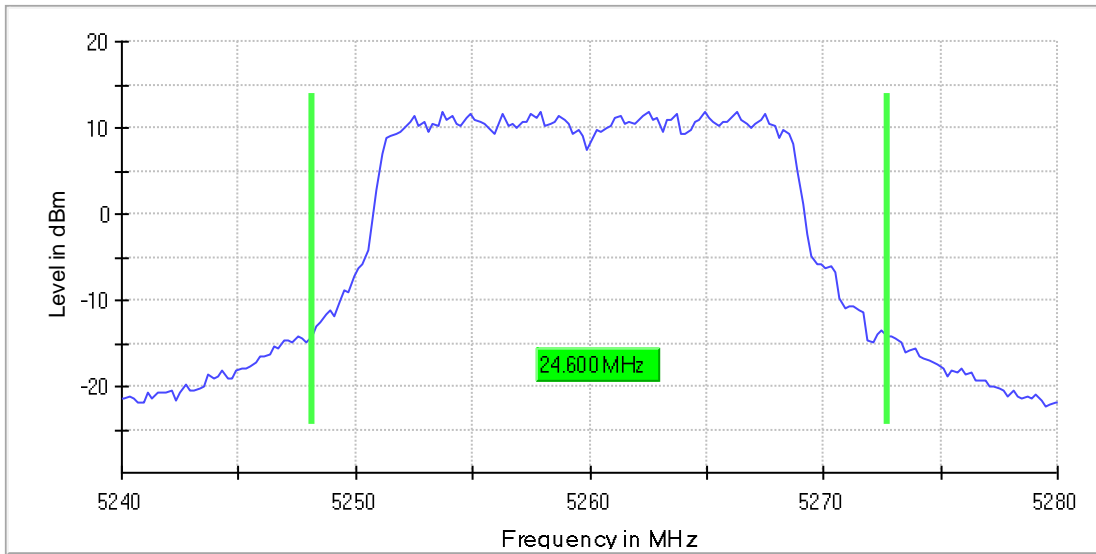


6.2.2.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 24.600000 | --- | --- | 5248.100000 | 5272.700000 | 11.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

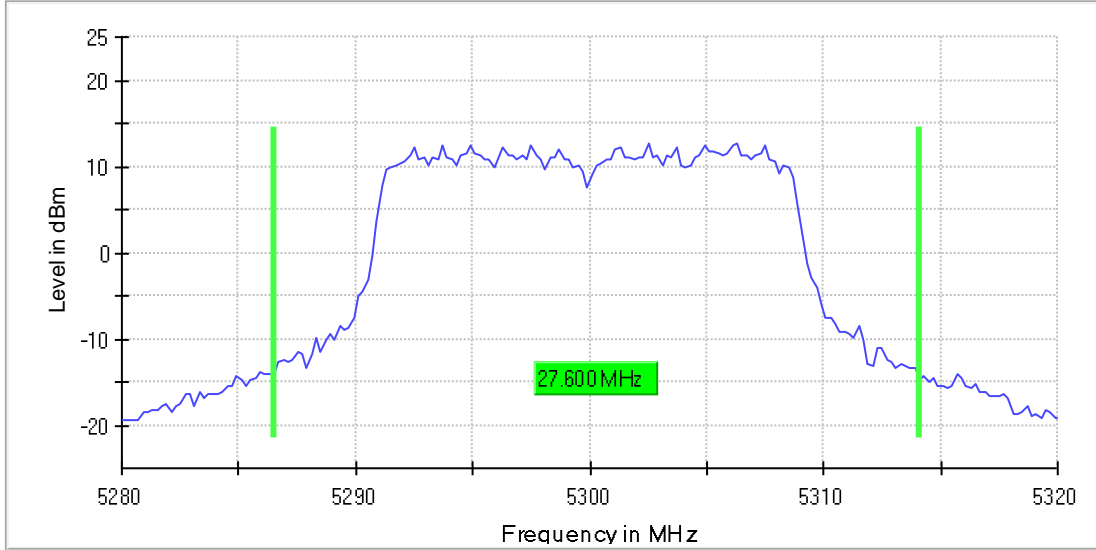




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 27.600000 | --- | --- | 5286.500000 | 5314.100000 | 12.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

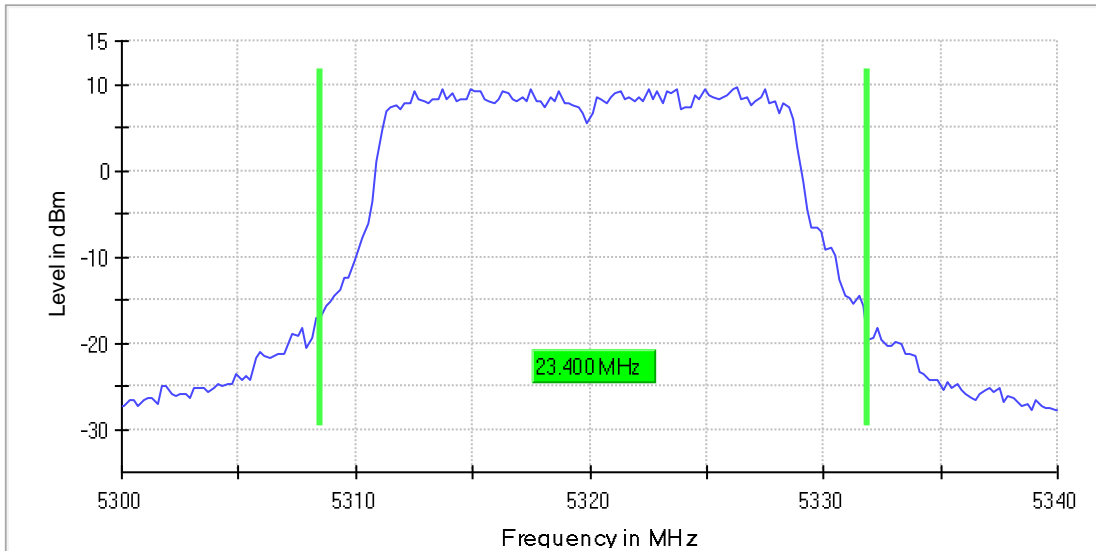




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 23.400000 | --- | --- | 5308.500000 | 5331.900000 | 9.6 |

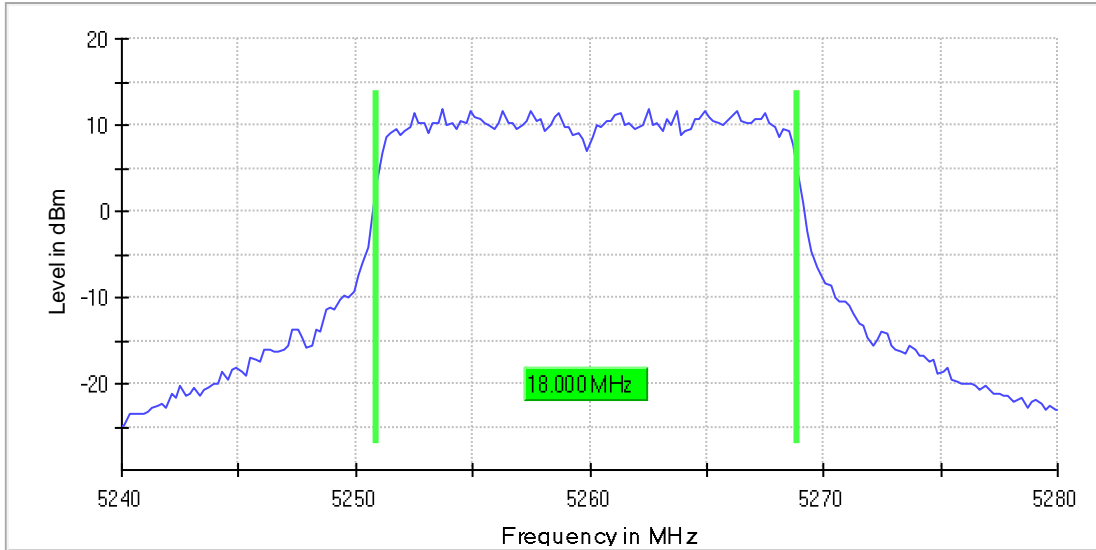
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |





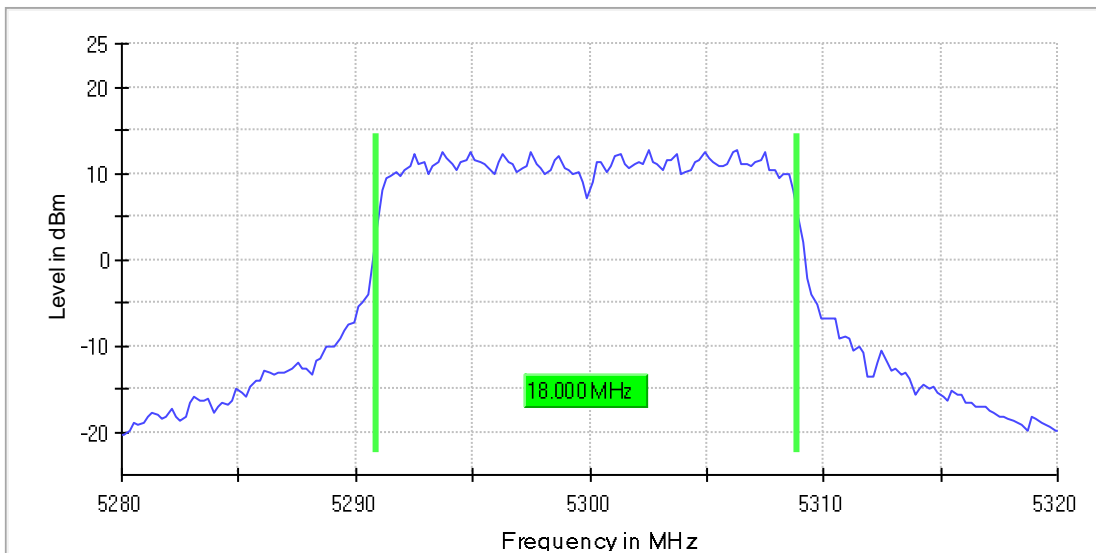
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5260.000000 | 18.000000 | --- | --- | 5250.900000 | 5268.900000 | PASS |



99 % Bandwidth

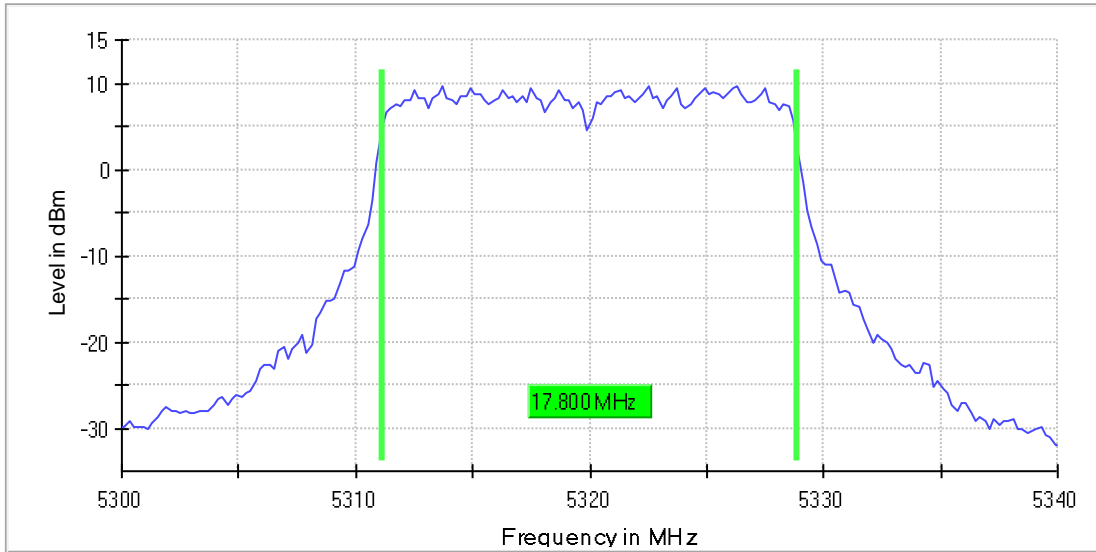
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5300.000000 | 18.000000 | --- | --- | 5290.900000 | 5308.900000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5320.000000 | 17.800000 | --- | --- | 5311.100000 | 5328.900000 | PASS |



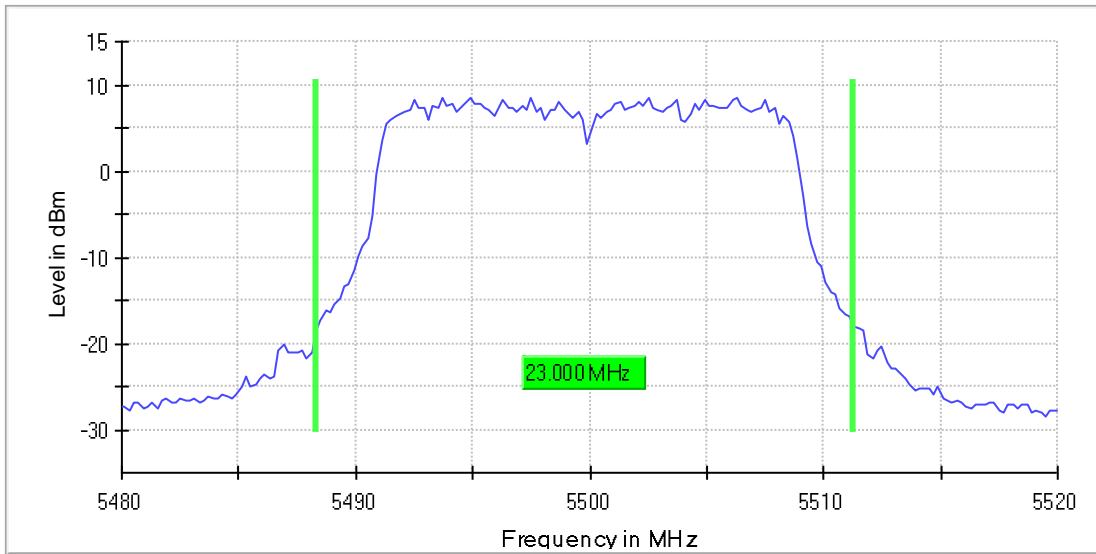


6.2.2.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 23.000000 | --- | --- | 5488.300000 | 5511.300000 | 8.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

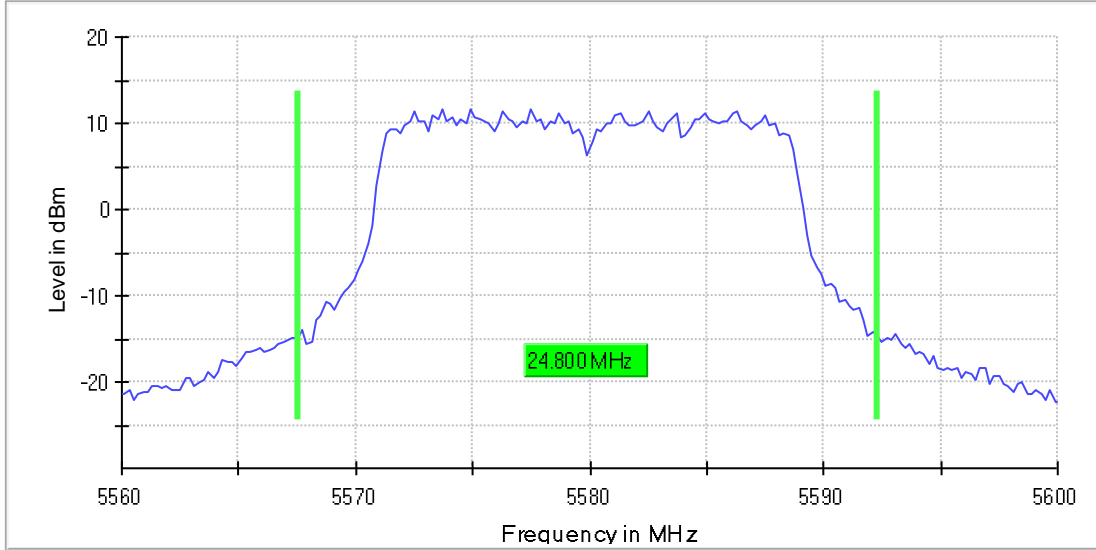




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 24.800000 | --- | --- | 5567.500000 | 5592.300000 | 11.7 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

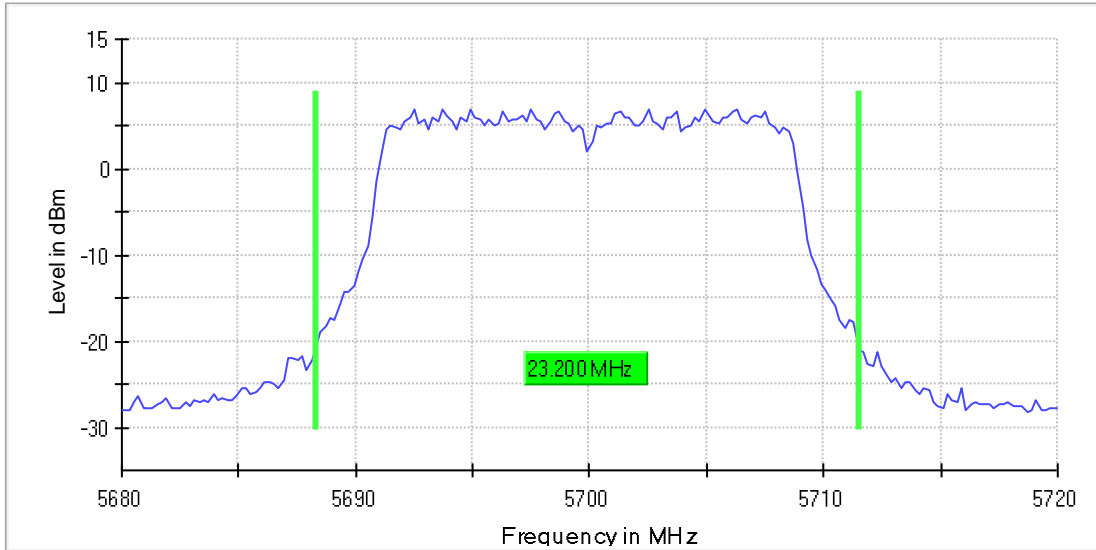




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 23.200000 | --- | --- | 5688.300000 | 5711.500000 | 7.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

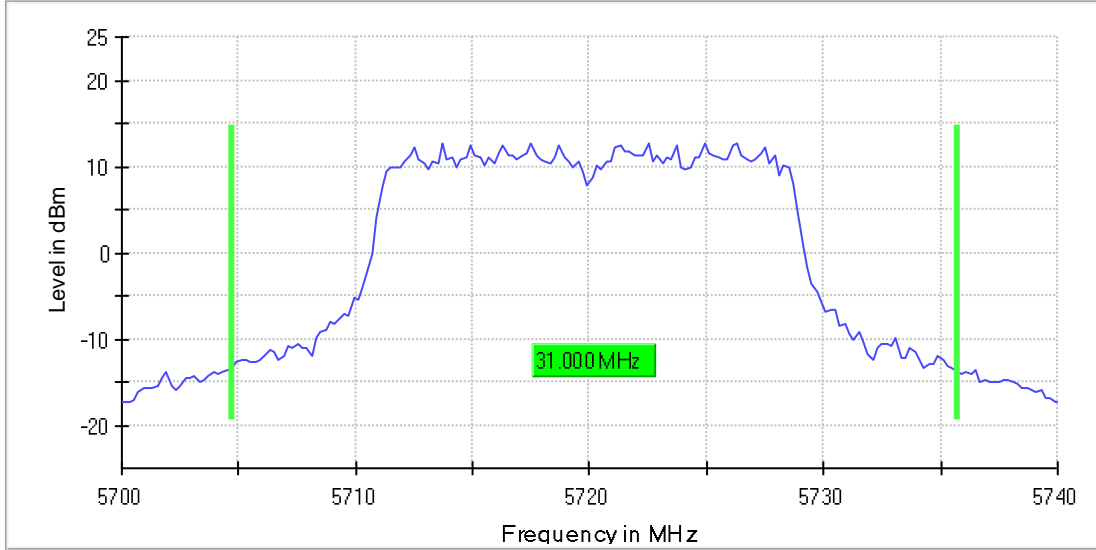




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5720.000000 | 31.000000 | --- | --- | 5704.700000 | 5735.700000 | 12.7 |

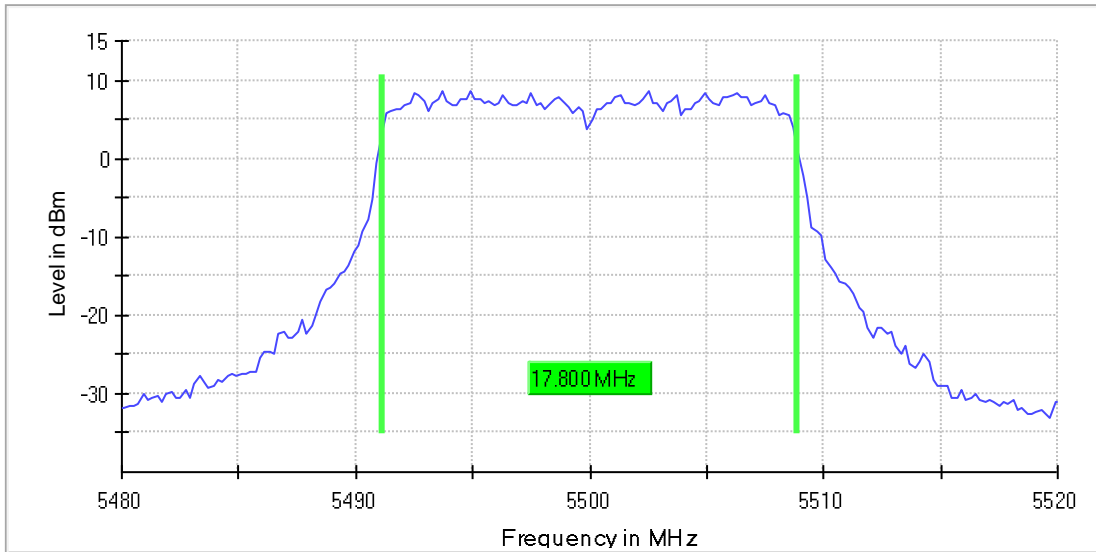
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |





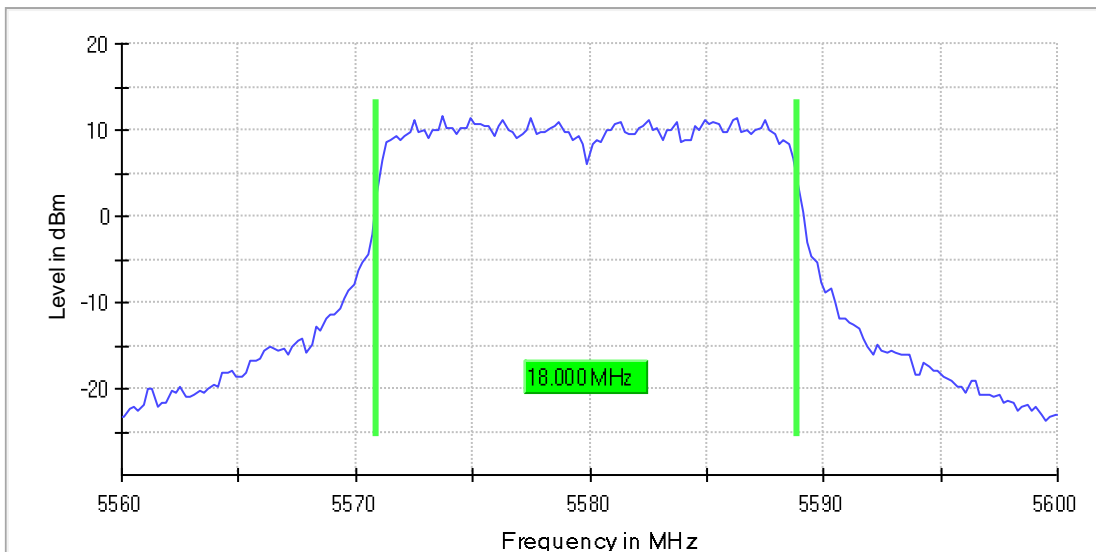
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5500.000000 | 17.800000 | --- | --- | 5491.100000 | 5508.900000 | PASS |



99 % Bandwidth

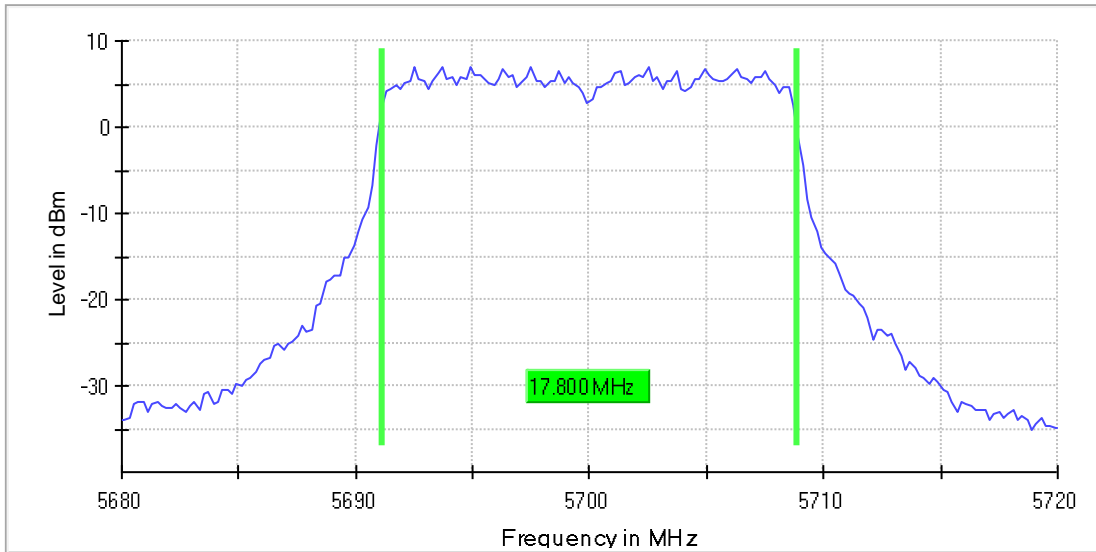
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5580.000000 | 18.000000 | --- | --- | 5570.900000 | 5588.900000 | PASS |





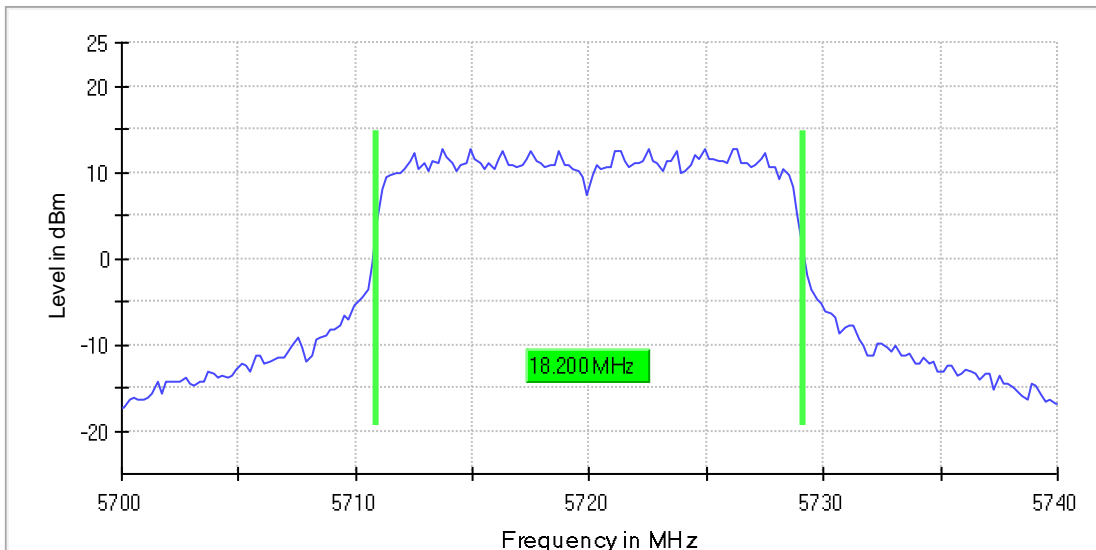
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5700.000000 | 17.800000 | --- | --- | 5691.100000 | 5708.900000 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5720.000000 | 18.200000 | --- | --- | 5710.900000 | 5729.100000 | PASS |



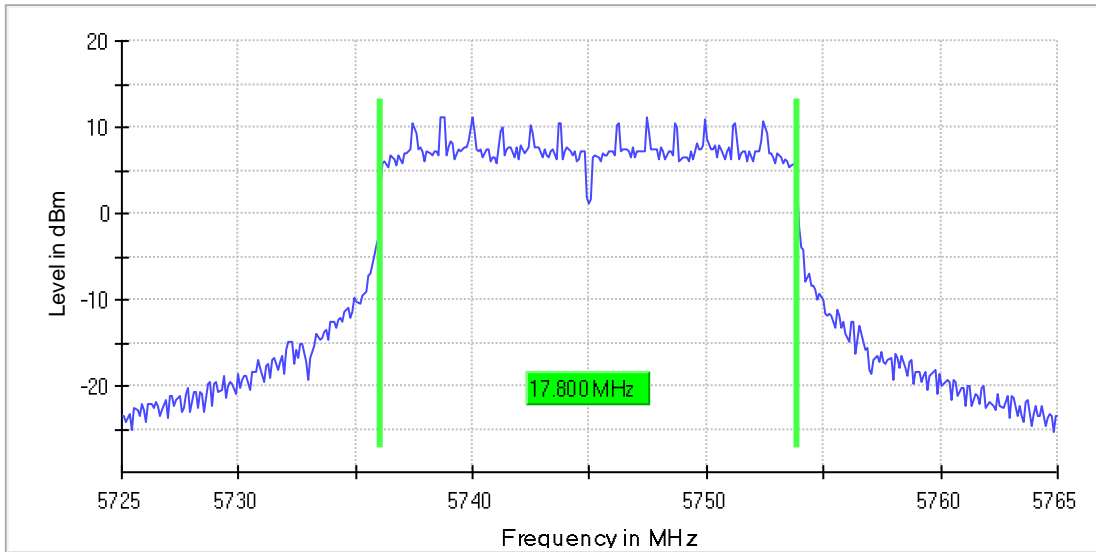


6.2.2.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 17.800000 | 0.500000 | --- | 5736.050000 | 5753.850000 | 11.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

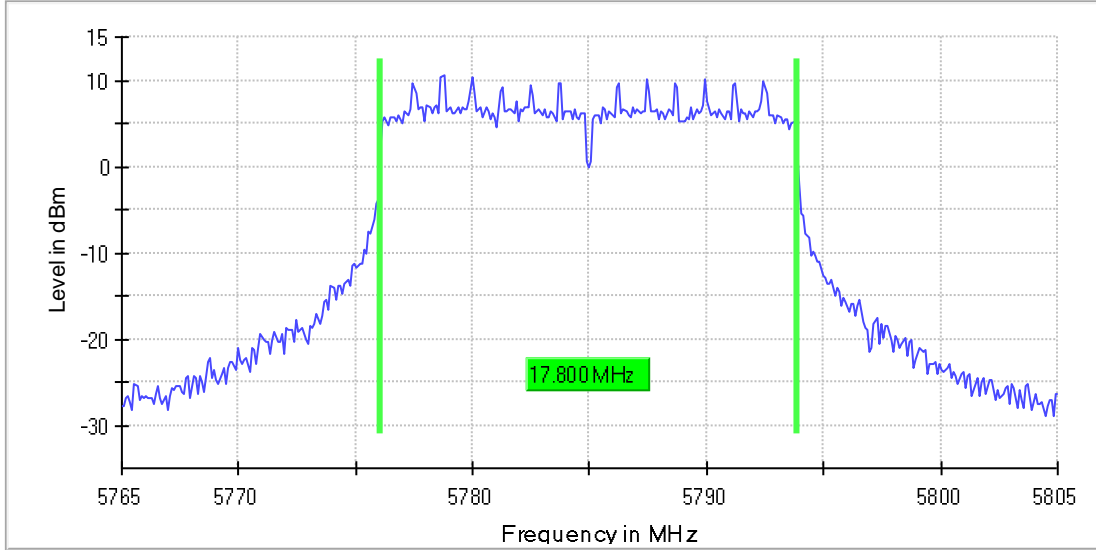




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 17.800000 | 0.500000 | --- | 5776.050000 | 5793.850000 | 10.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

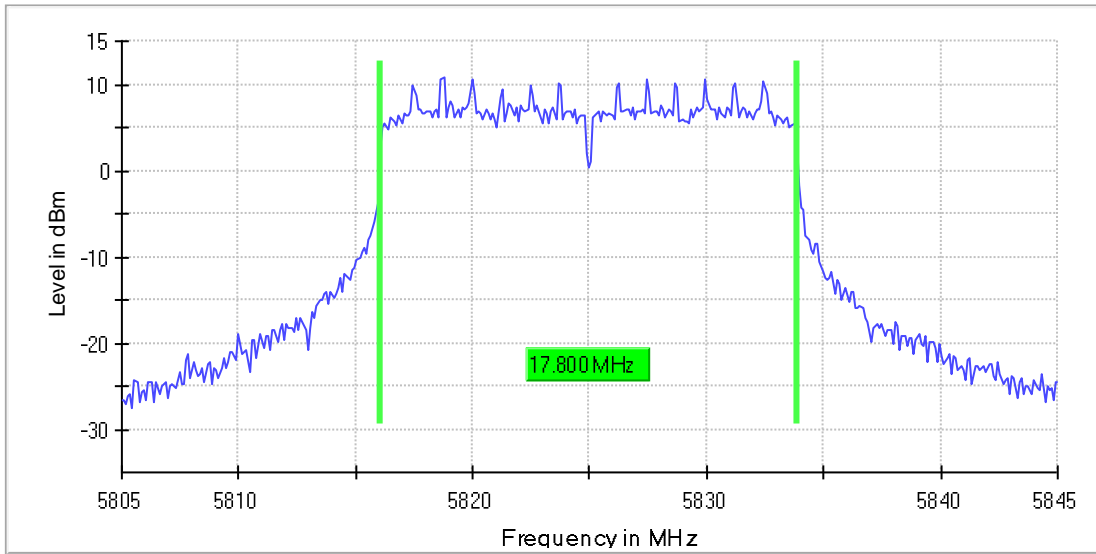




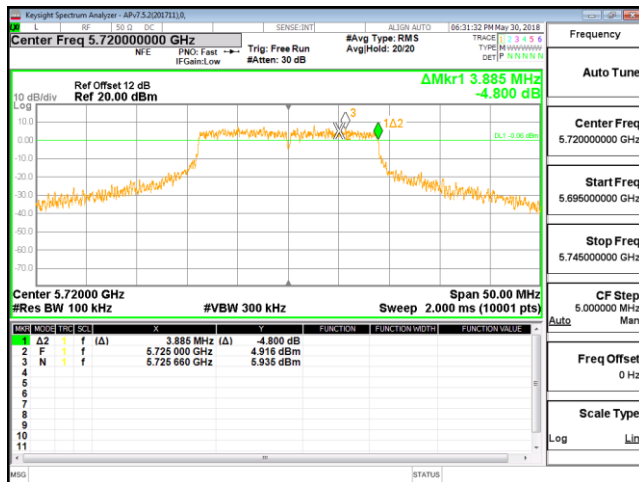
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 17.800000 | 0.500000 | --- | 5816.050000 | 5833.850000 | 10.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



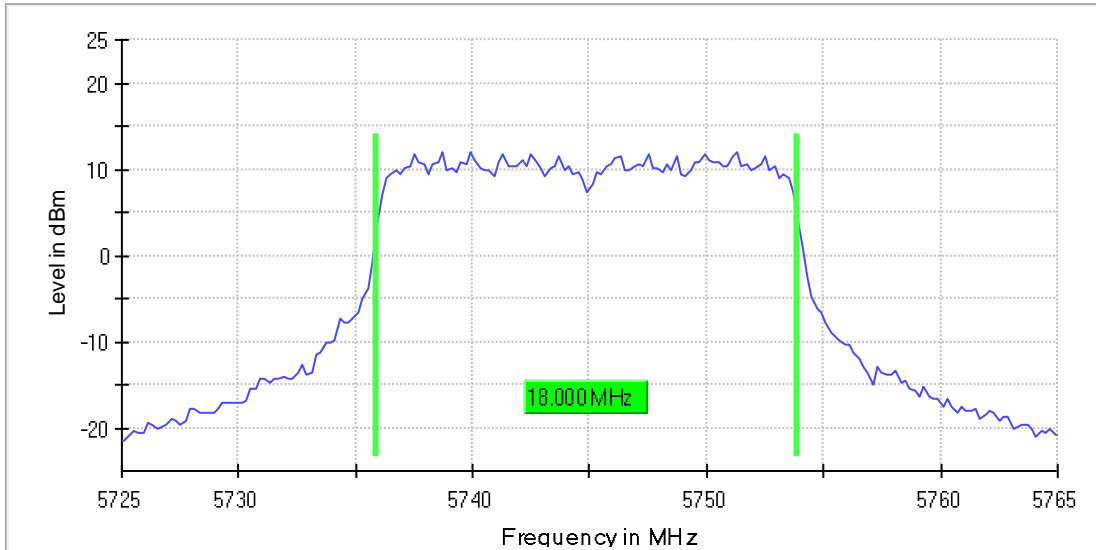
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.885 | 0.500000 | PASS |





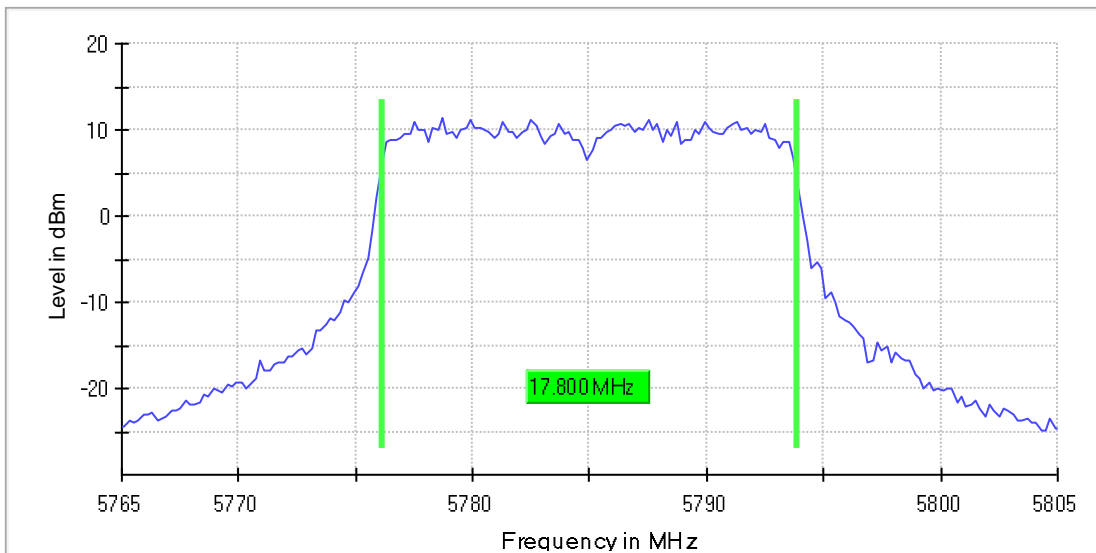
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5745.000000 | 18.000000 | --- | --- | 5735.900000 | 5753.900000 | PASS |



99 % Bandwidth

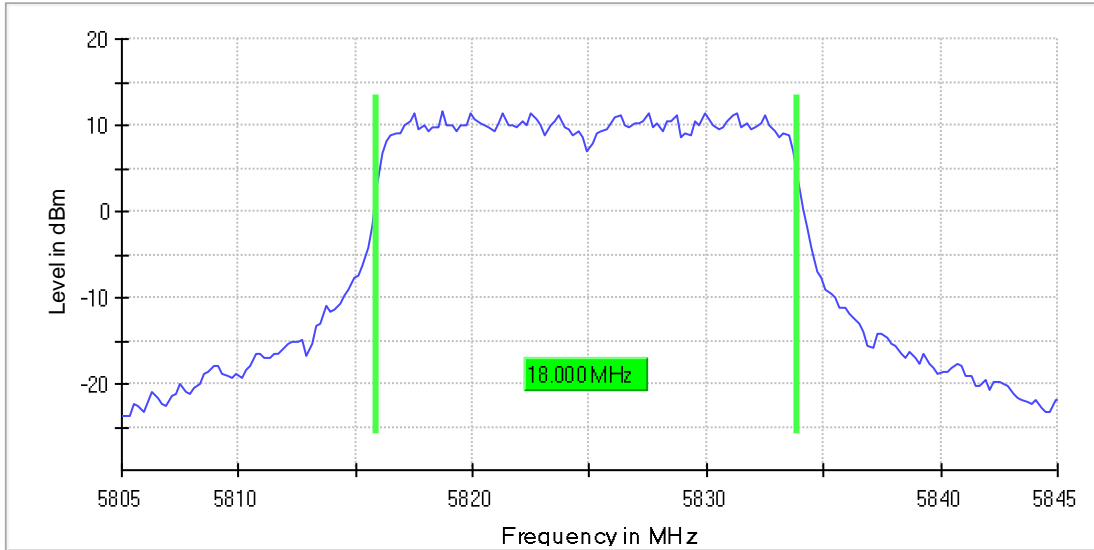
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5785.000000 | 17.800000 | --- | --- | 5776.100000 | 5793.900000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5825.000000 | 18.000000 | --- | --- | 5815.900000 | 5833.900000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



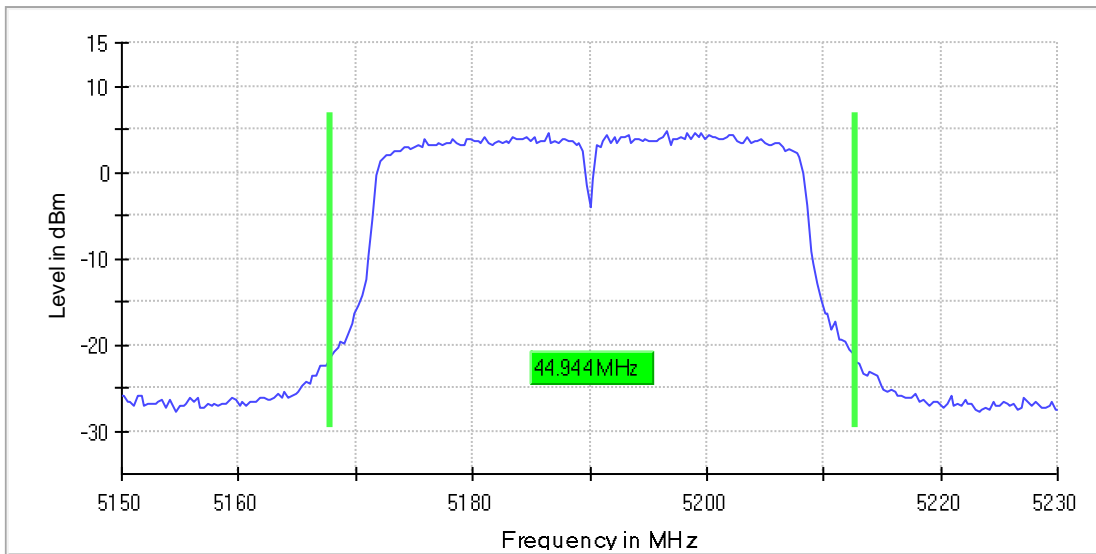
6.2.3. 802.11n HT40 SISO MODE

6.2.3.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5190.000000 | 44.943821 | --- | --- | 5167.827715 | 5212.771536 | 4.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5190.000000 | PASS |

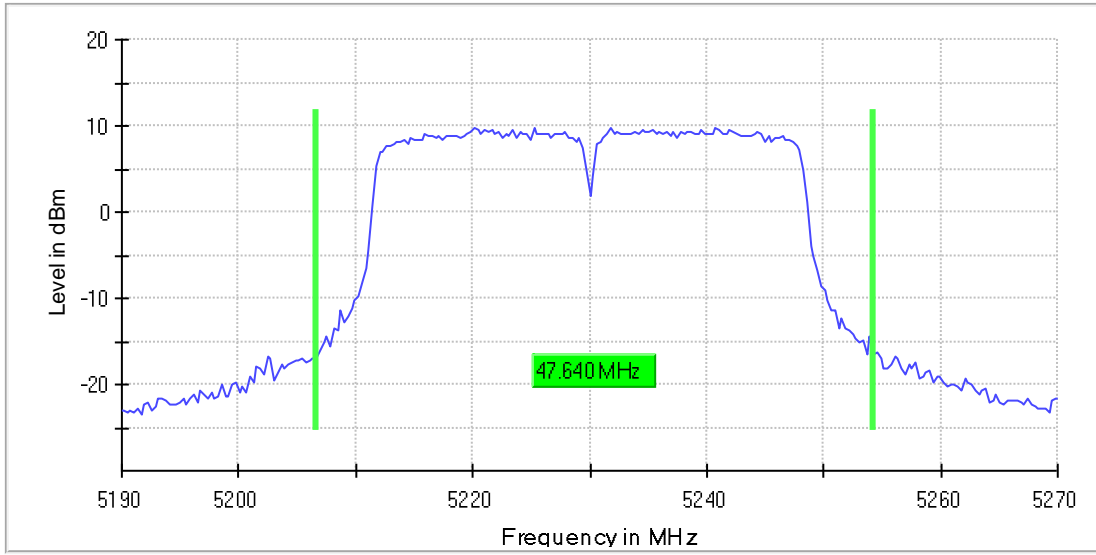




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5230.000000 | 47.640450 | --- | --- | 5206.629213 | 5254.269663 | 9.8 |

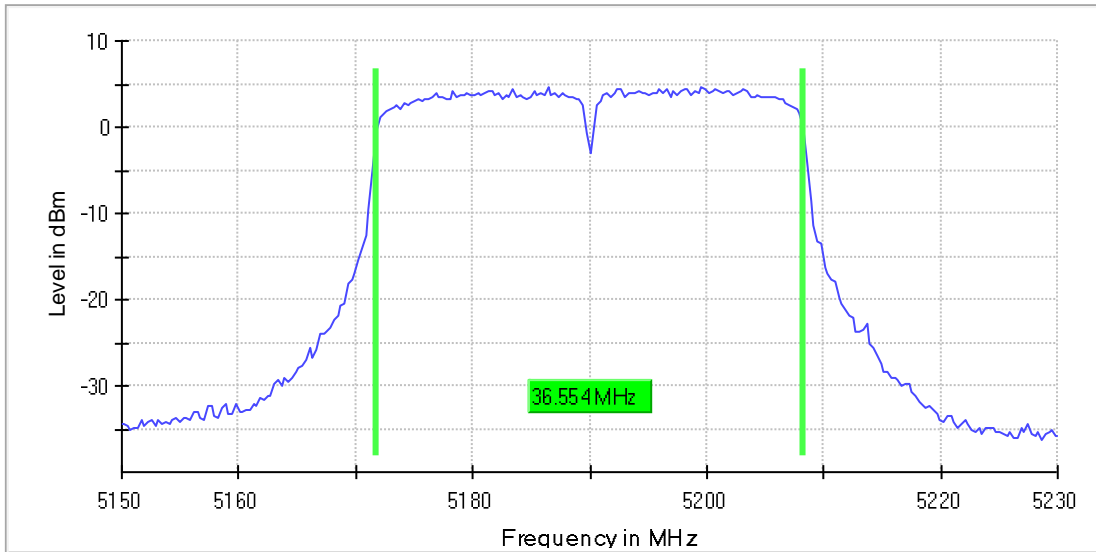
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5230.000000 | PASS |





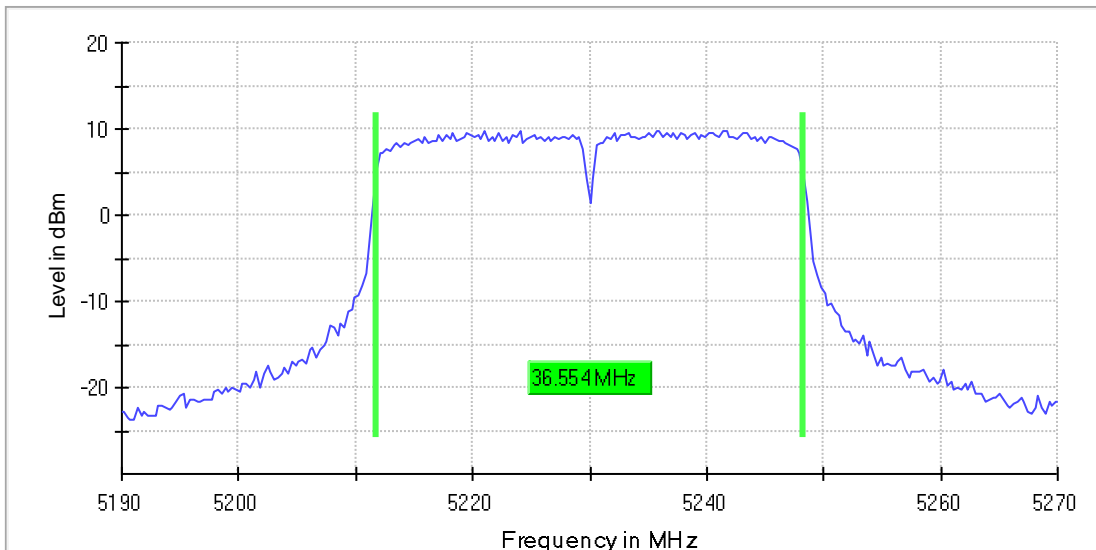
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5190.000000 | 36.554308 | --- | --- | 5171.722846 | 5208.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5230.000000 | 36.554308 | --- | --- | 5211.722846 | 5248.277154 | PASS |



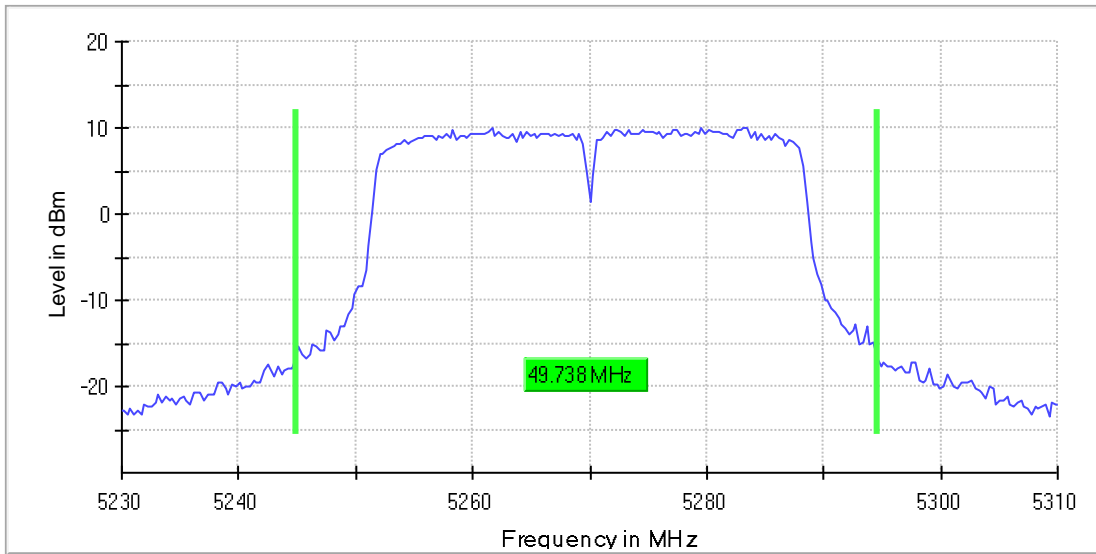


6.2.3.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5270.000000 | 49.737827 | --- | --- | 5244.831461 | 5294.569288 | 10.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5270.000000 | PASS |

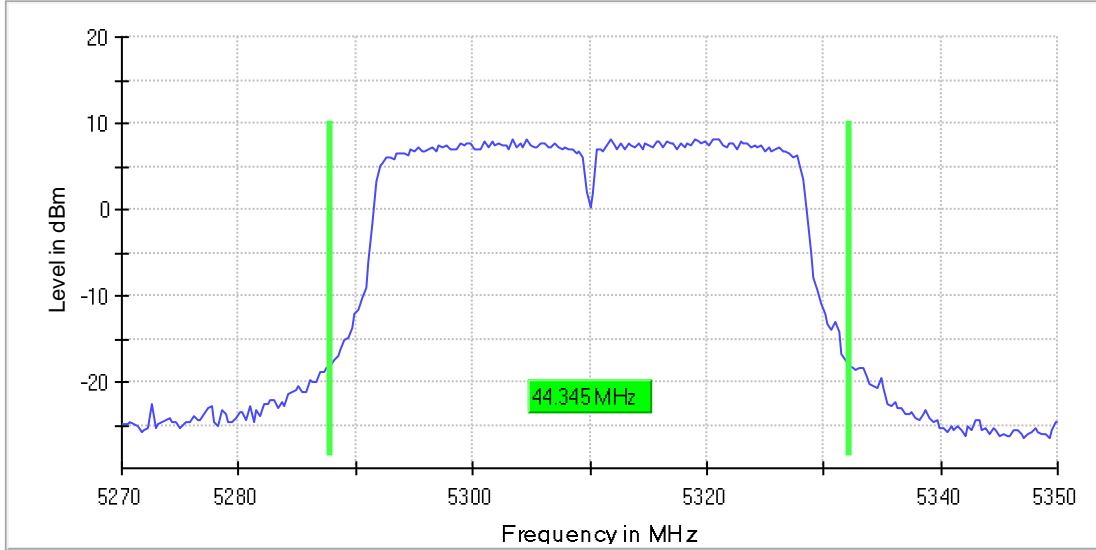




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5310.000000 | 44.344570 | --- | --- | 5287.827715 | 5332.172285 | 8.2 |

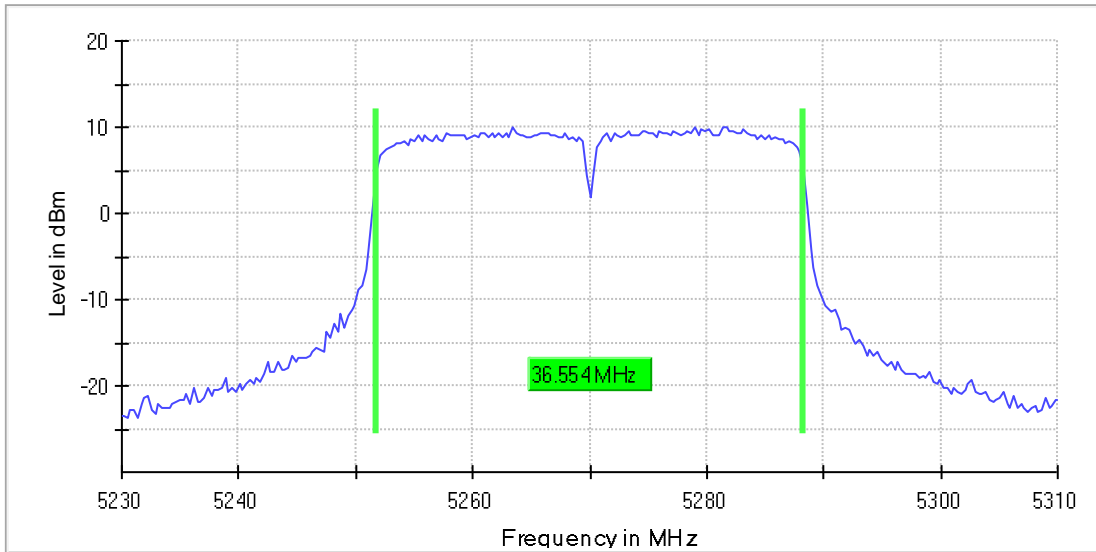
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5310.000000 | PASS |





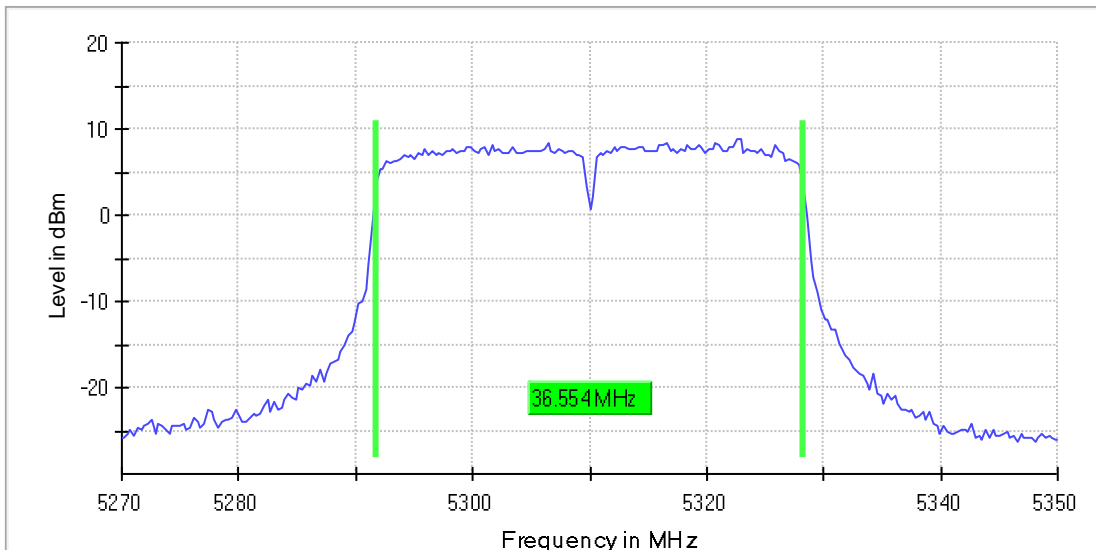
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5270.000000 | 36.554308 | --- | --- | 5251.722846 | 5288.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5310.000000 | 36.554308 | --- | --- | 5291.722846 | 5328.277154 | PASS |



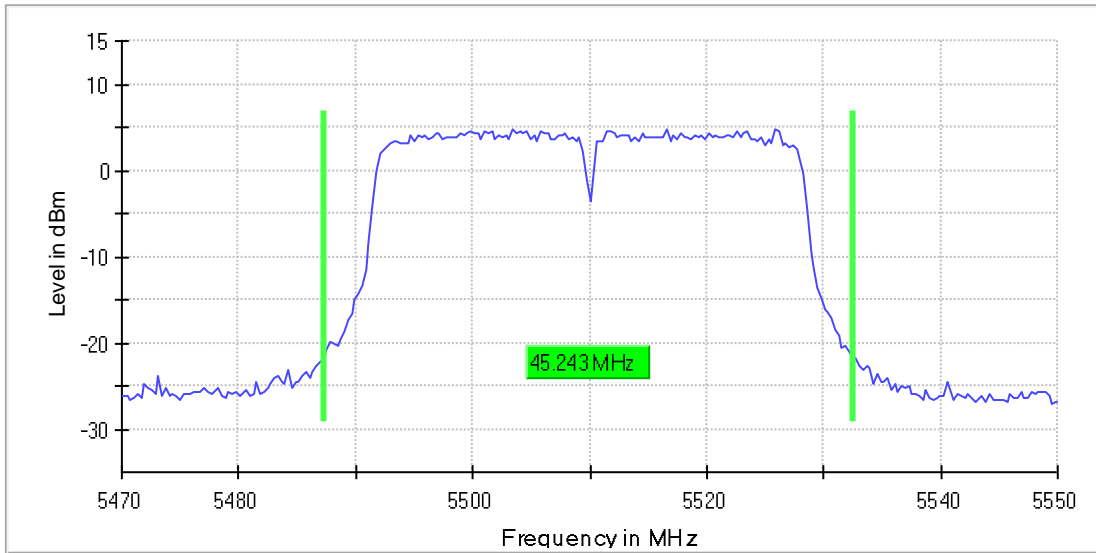


6.2.3.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5510.000000 | 45.243446 | --- | --- | 5487.228464 | 5532.471910 | 4.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5510.000000 | PASS |

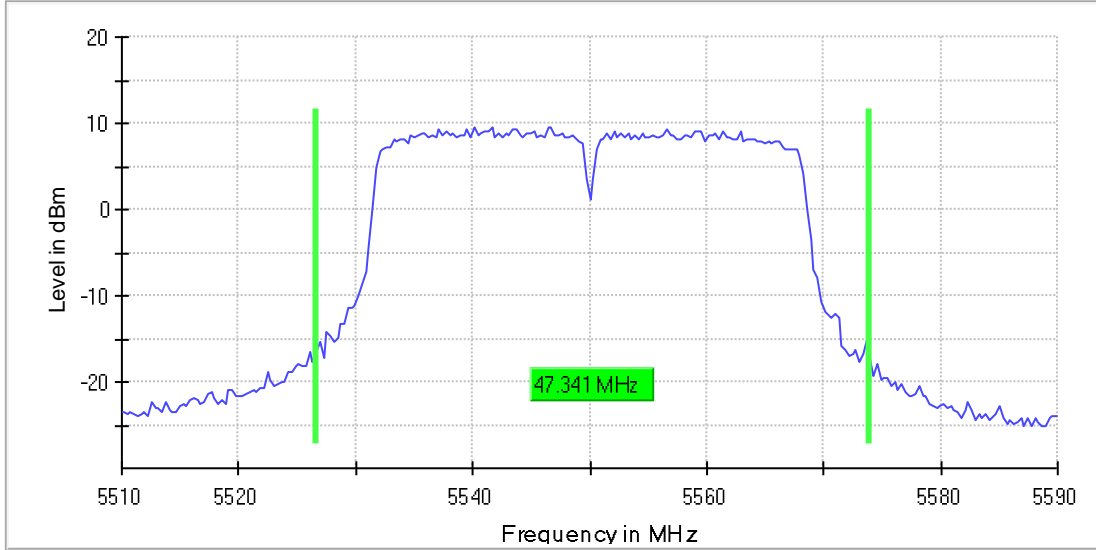




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5550.000000 | 47.340824 | --- | --- | 5526.629213 | 5573.970037 | 9.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5550.000000 | PASS |

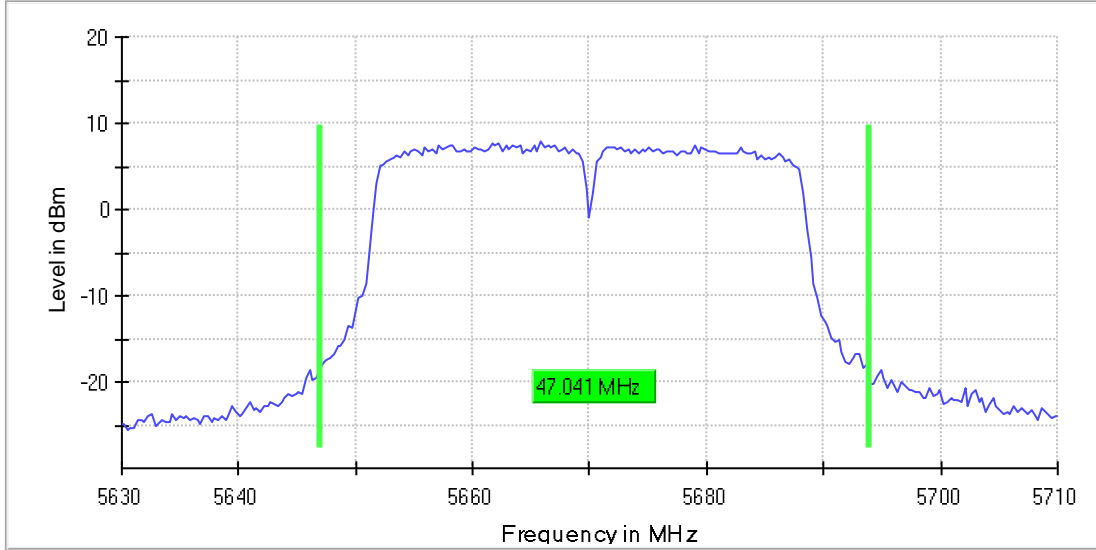




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5670.000000 | 47.041198 | --- | --- | 5646.928839 | 5693.970037 | 7.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5670.000000 | PASS |

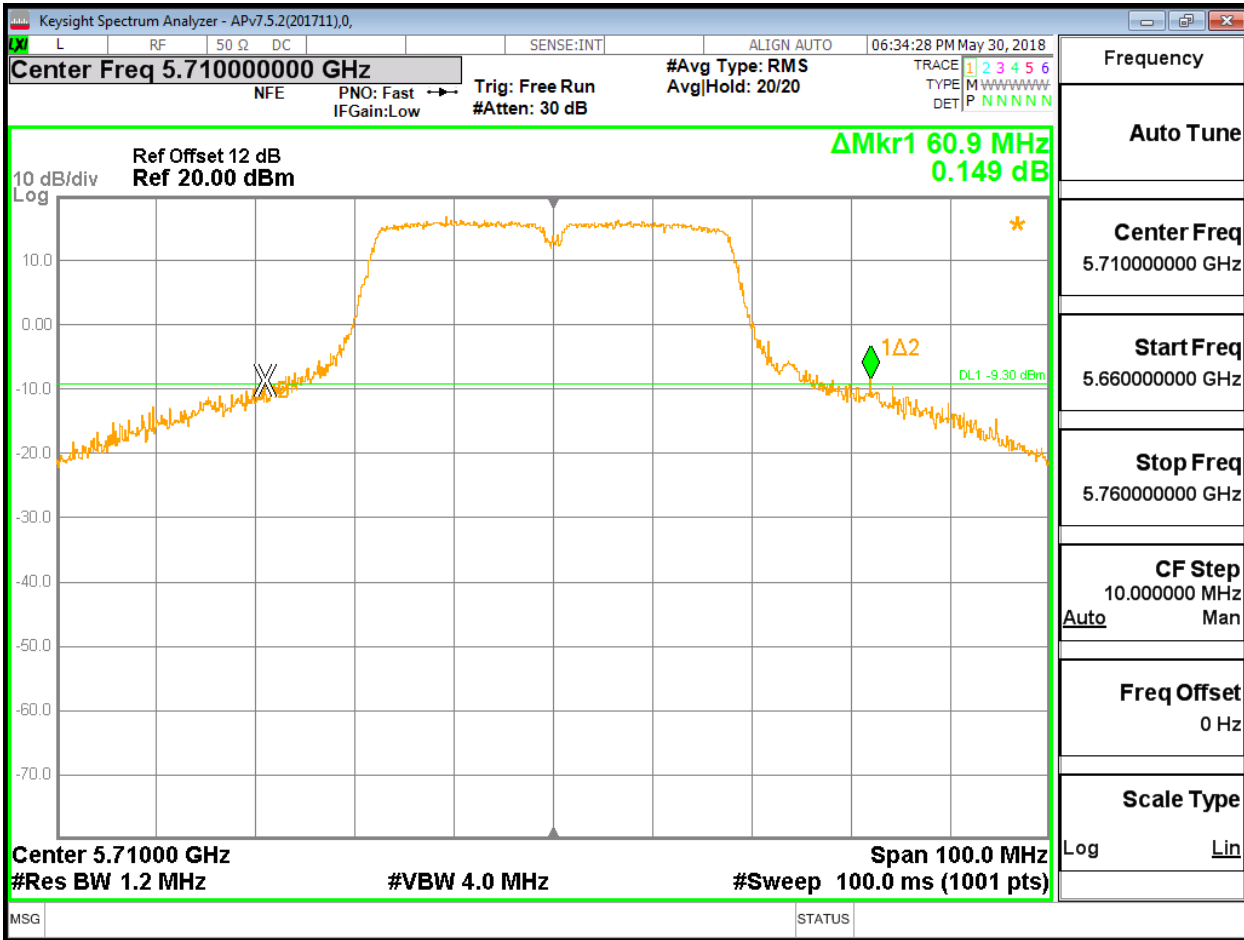




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) |
|---------------------|-----------------|
| 5710.000000 | 60.900000 |

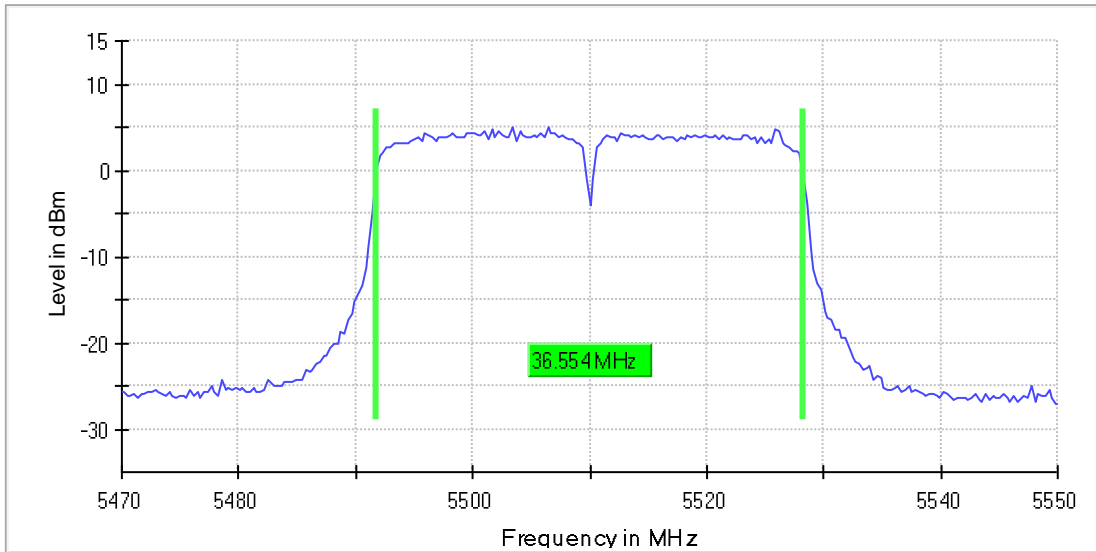
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5710.000000 | PASS |





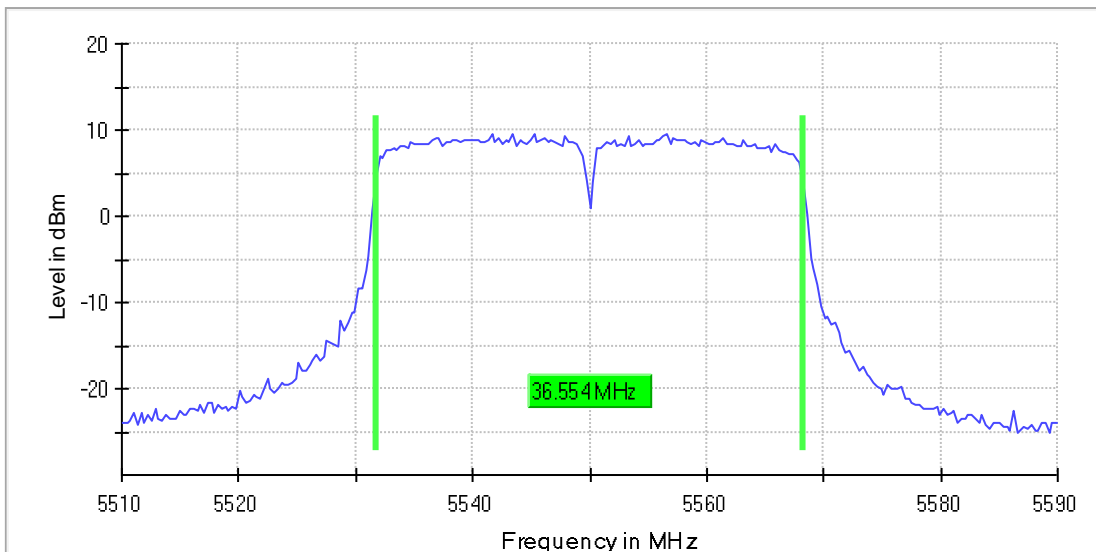
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5510.000000 | 36.554308 | --- | --- | 5491.722846 | 5528.277154 | PASS |



99 % Bandwidth

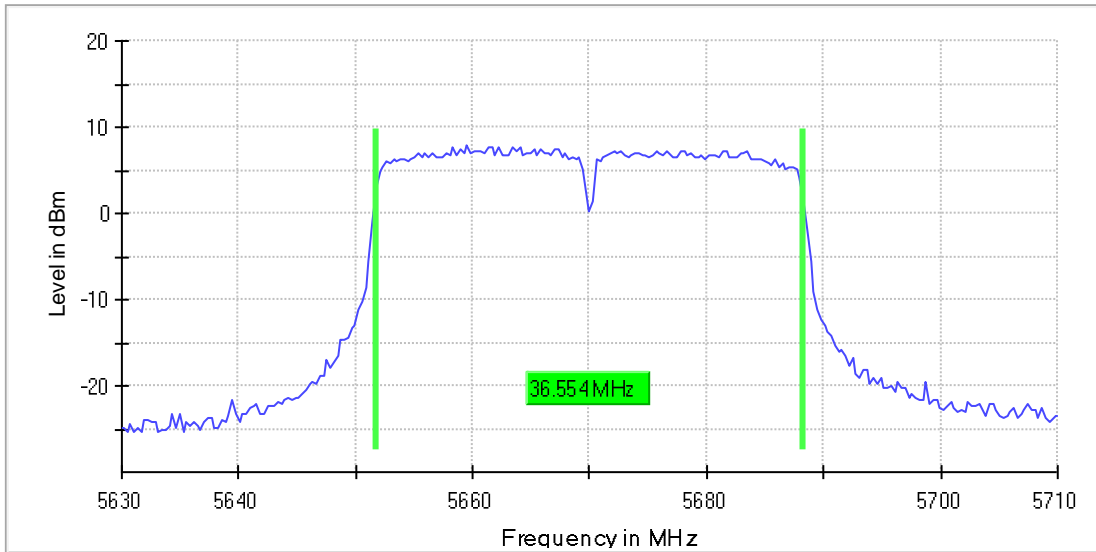
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5550.000000 | 36.554308 | --- | --- | 5531.722846 | 5568.277154 | PASS |





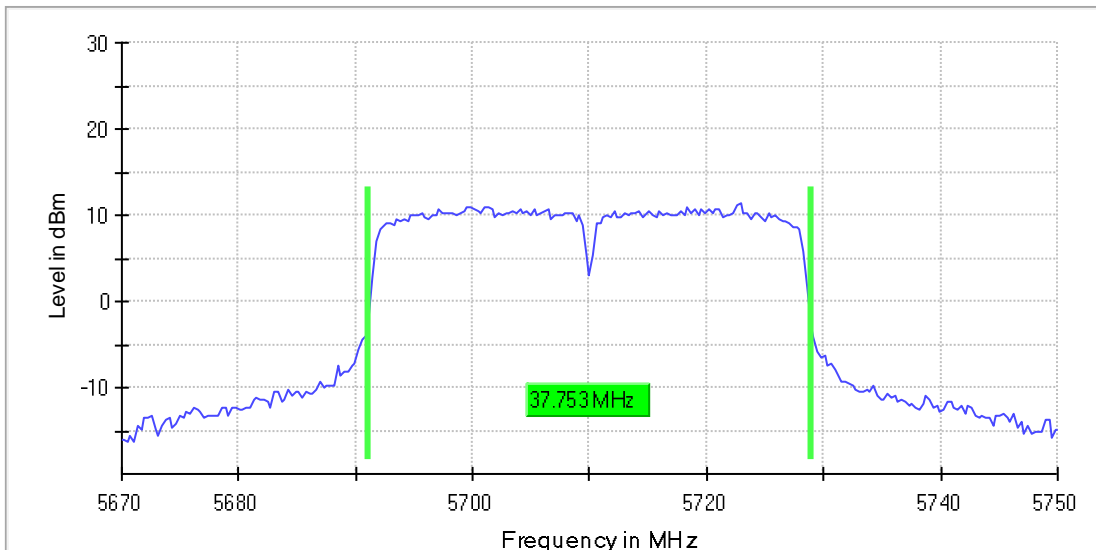
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5670.000000 | 36.554308 | --- | --- | 5651.722846 | 5688.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5710.000000 | 37.752808 | --- | --- | 5691.123596 | 5728.876404 | PASS |



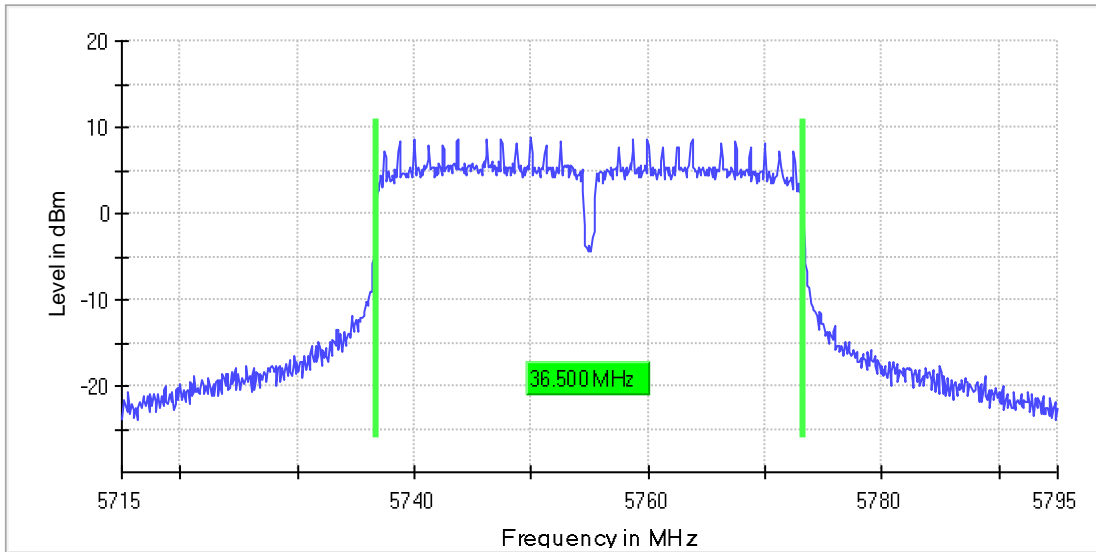


6.2.3.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5755.000000 | 36.500000 | 0.500000 | --- | 5736.750000 | 5773.250000 | 8.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5755.000000 | PASS |

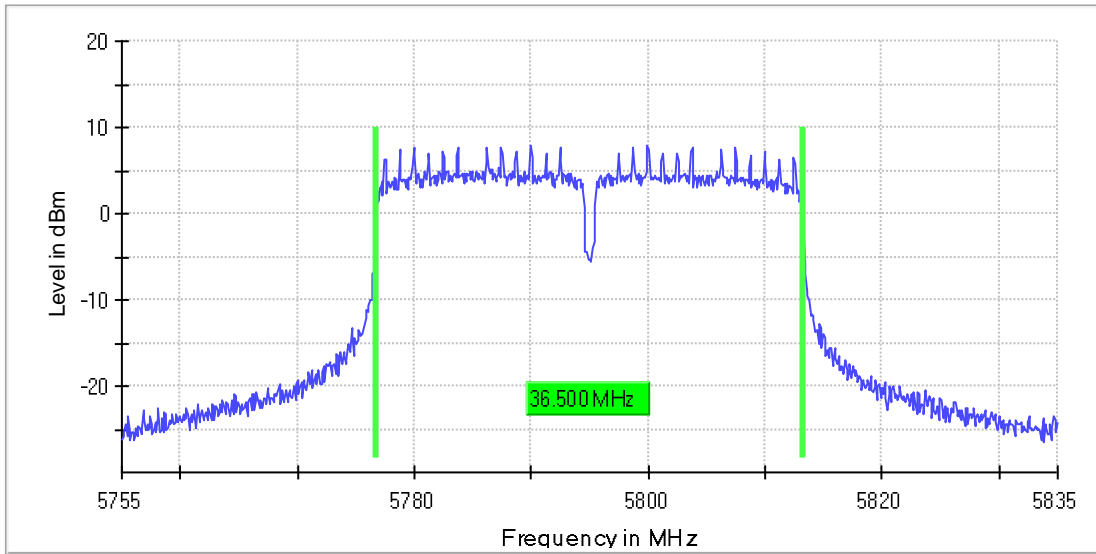




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5795.000000 | 36.500000 | 0.500000 | --- | 5776.750000 | 5813.250000 | 8.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5795.000000 | PASS |



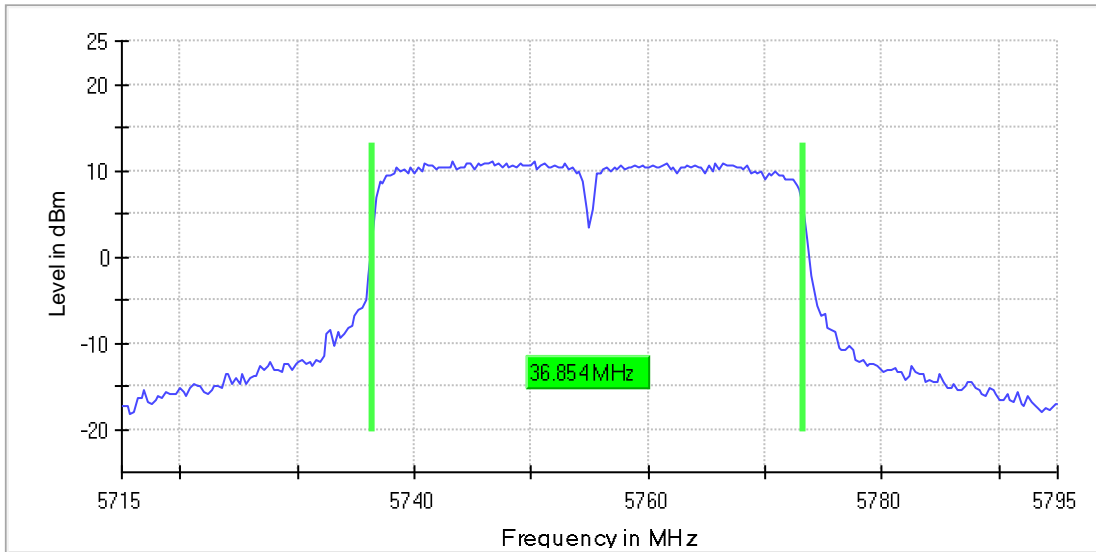
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5710.000000 | 3.29 | 0.500000 | PASS |





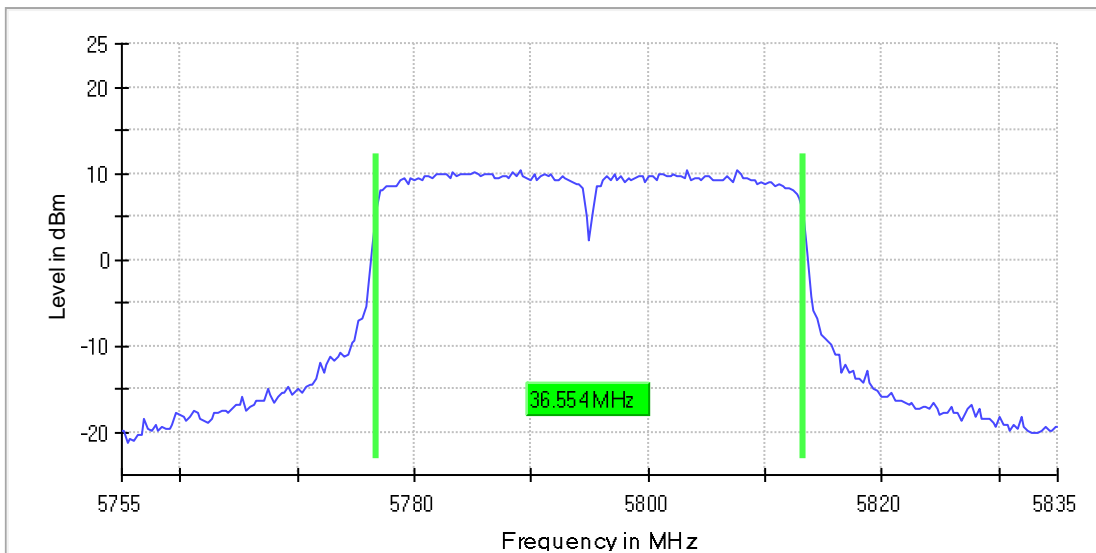
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5755.000000 | 36.853933 | --- | --- | 5736.423221 | 5773.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5795.000000 | 36.554308 | --- | --- | 5776.722846 | 5813.277154 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



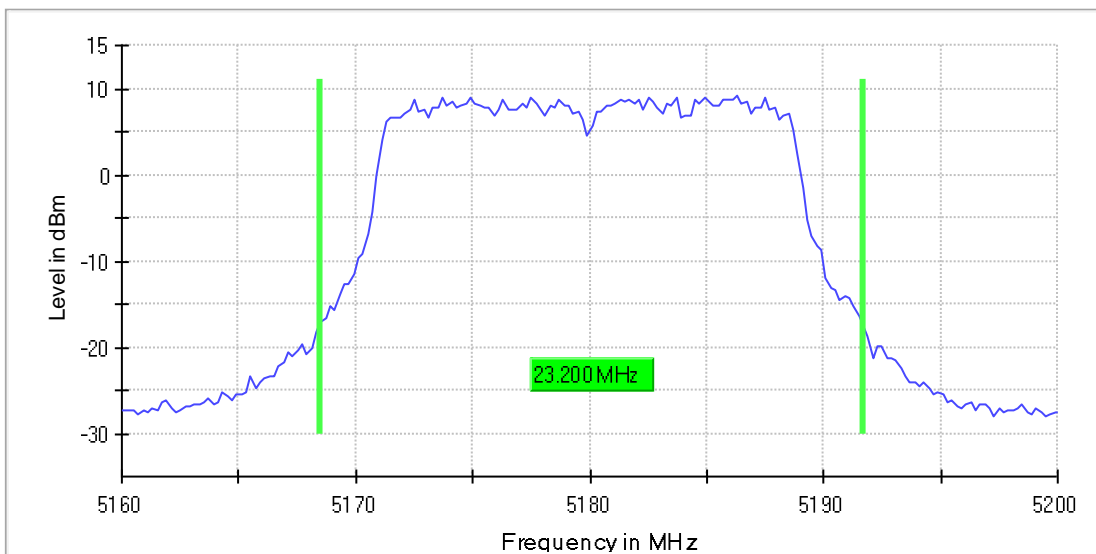
6.2.4. 802.11ac HT20 SISO MODE

6.2.4.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.000000 | 23.200000 | --- | --- | 5168.500000 | 5191.700000 | 9.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5180.000000 | PASS |

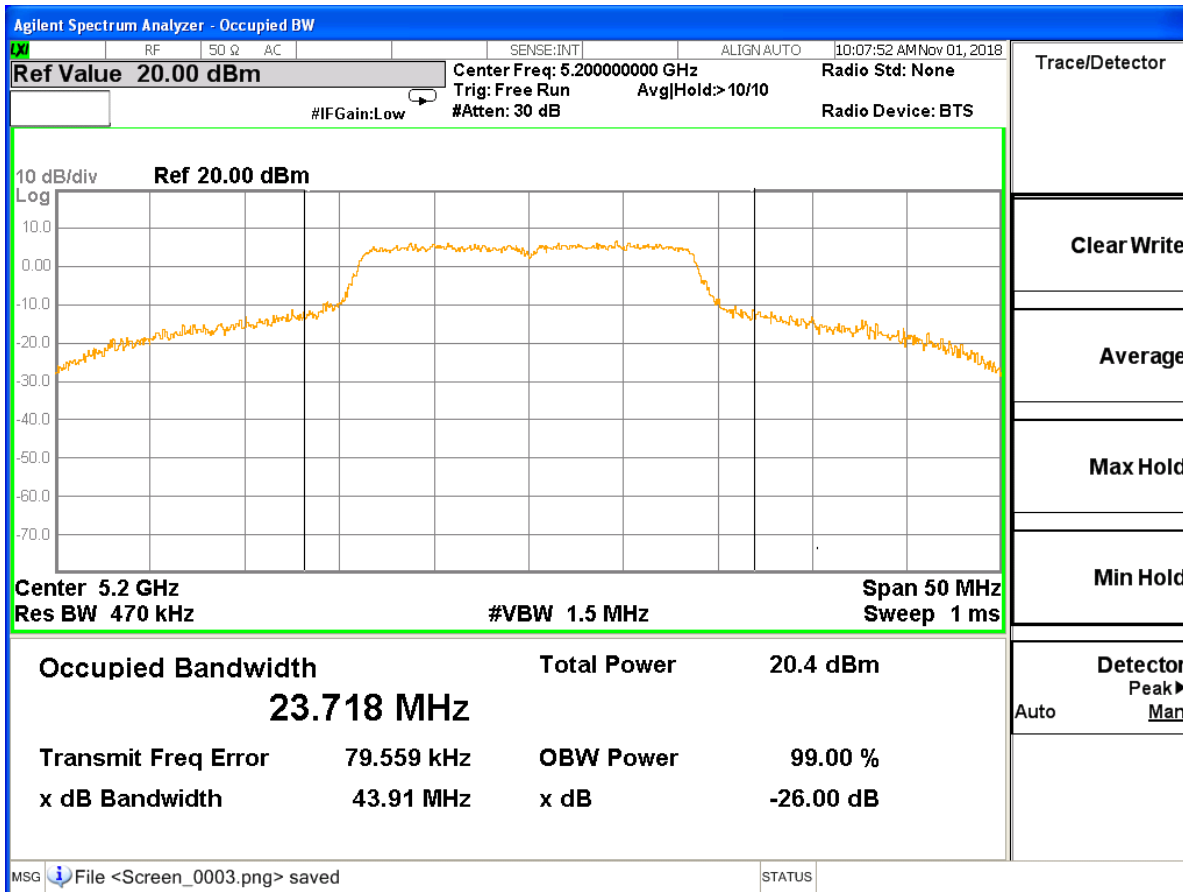




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5200.000000 | 43.910000 | --- | --- |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |

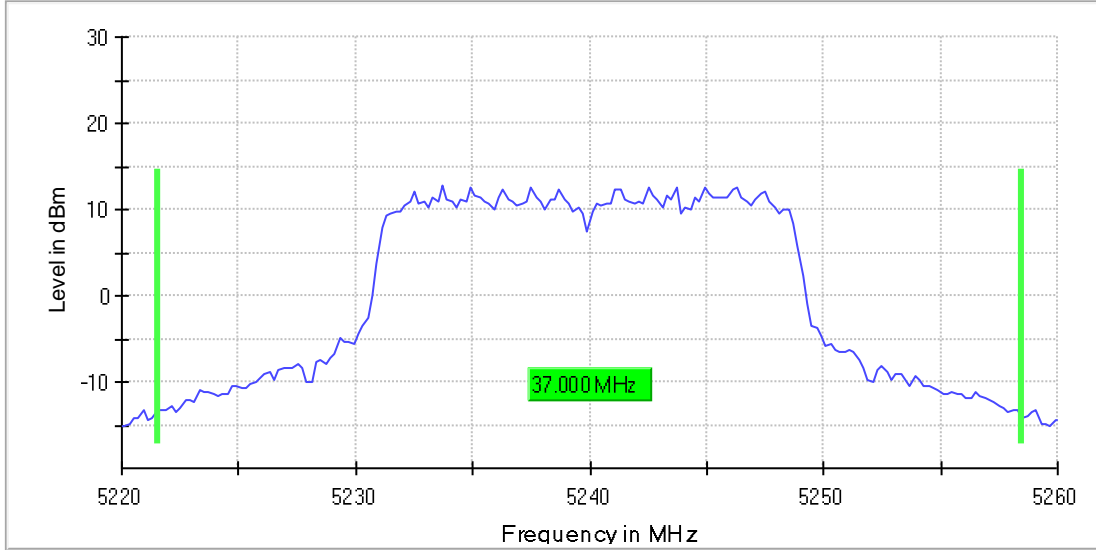




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5240.000000 | 37.000000 | --- | --- | 5221.500000 | 5258.500000 | 12.700 |

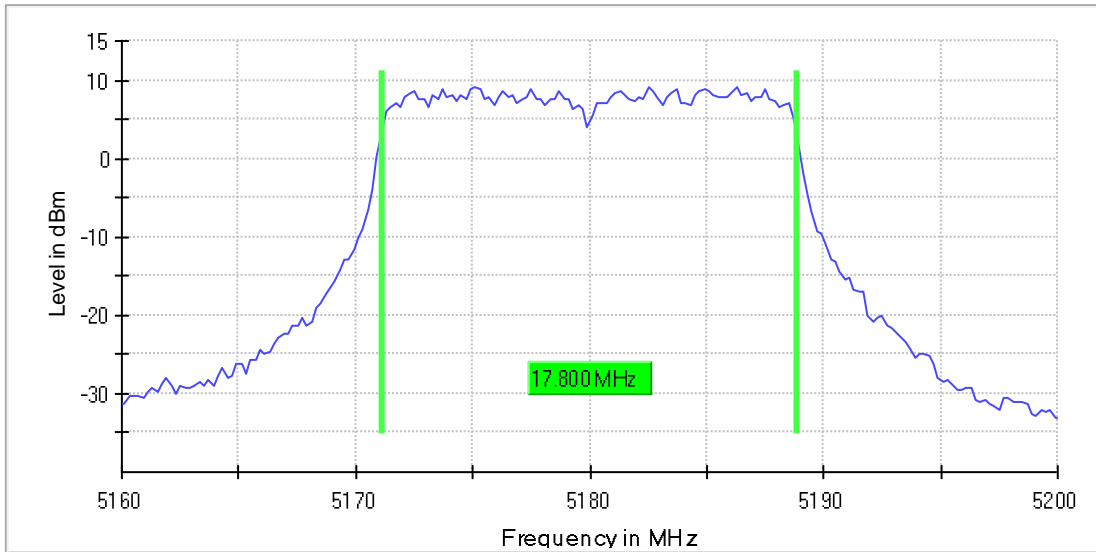
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5240.000000 | PASS |





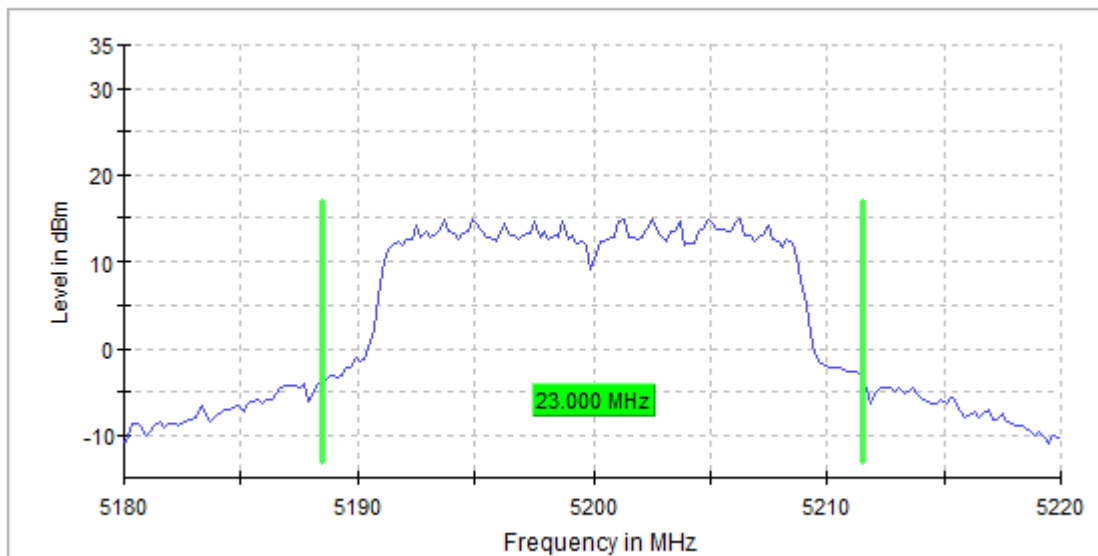
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5180.000000 | 17.800000 | --- | --- | 5171.100000 | 5188.900000 | PASS |



99 % Bandwidth

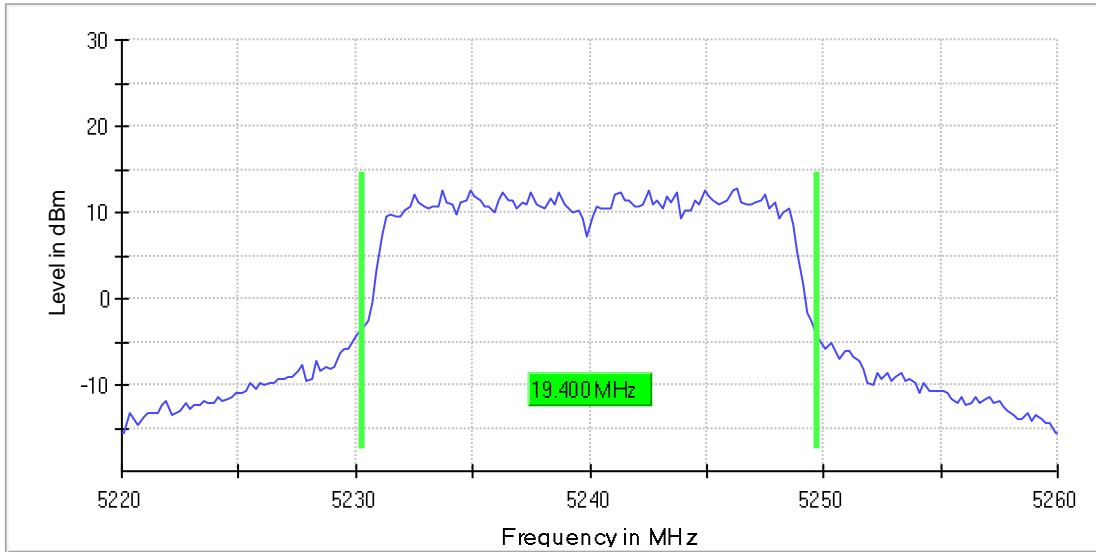
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5200.000000 | 23.000000 | --- | --- | 5188.500000 | 5211.500000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5240.000000 | 19.400000 | --- | --- | 5230.300000 | 5249.700000 | PASS |



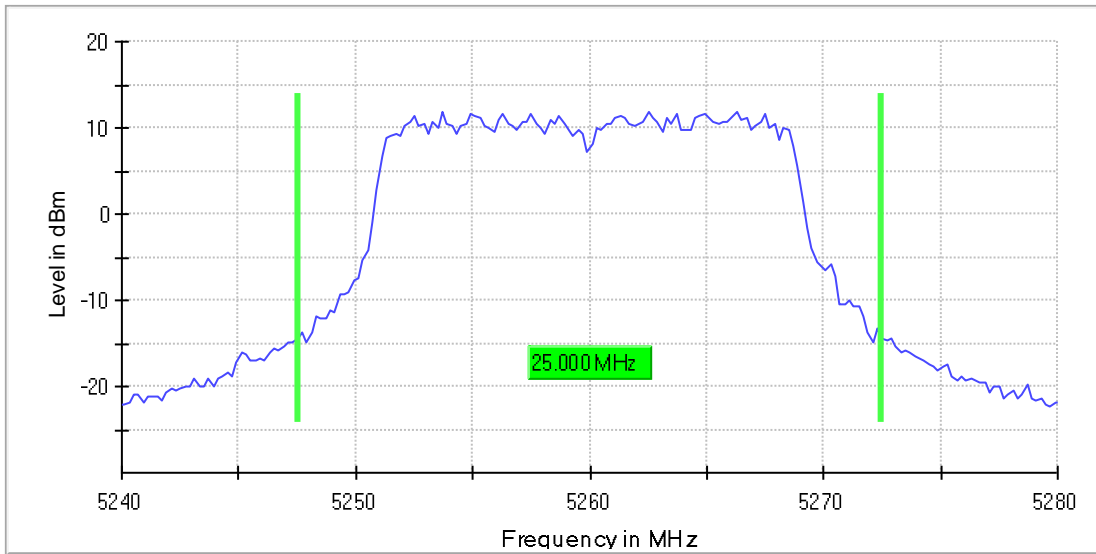


6.2.4.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 25.000000 | --- | --- | 5247.500000 | 5272.500000 | 11.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

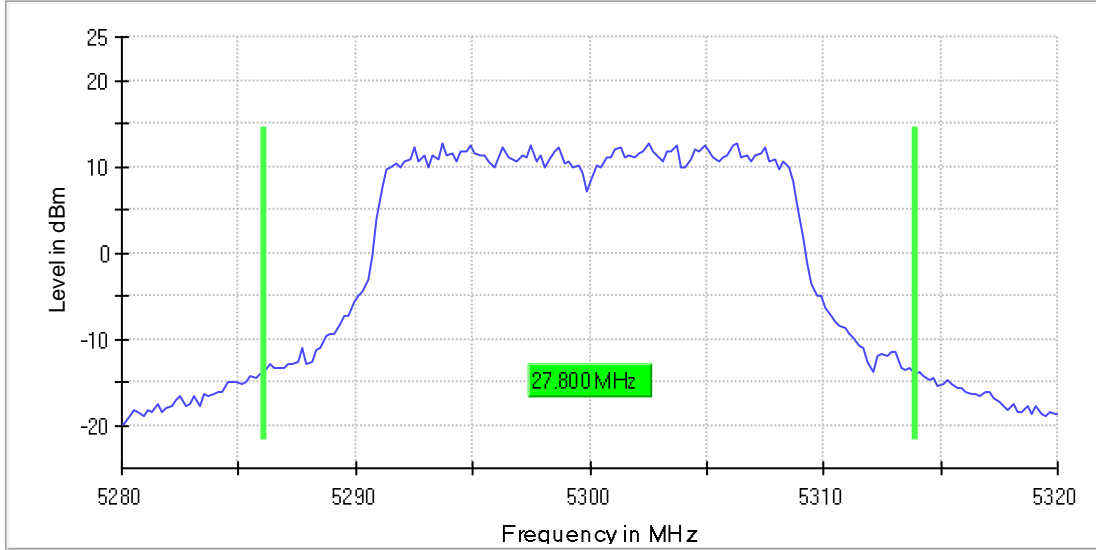




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 27.800000 | --- | --- | 5286.100000 | 5313.900000 | 12.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

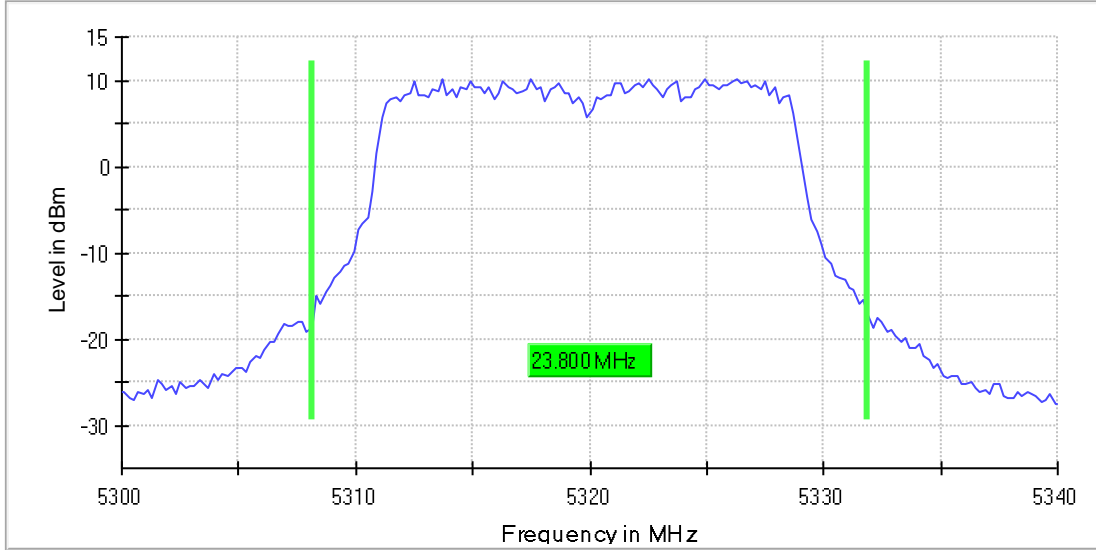




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 23.800000 | --- | --- | 5308.100000 | 5331.900000 | 10.2 |

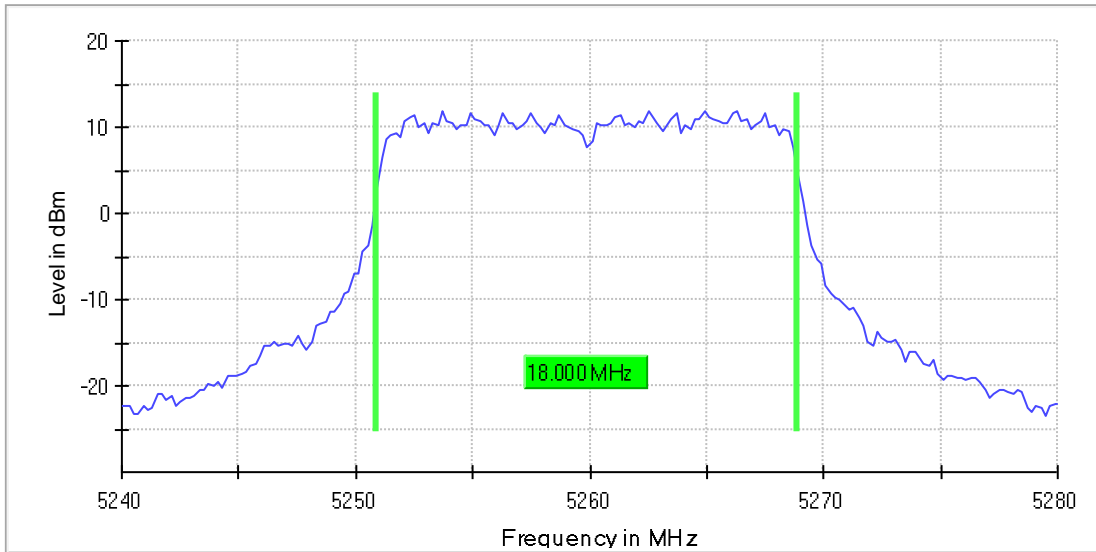
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |





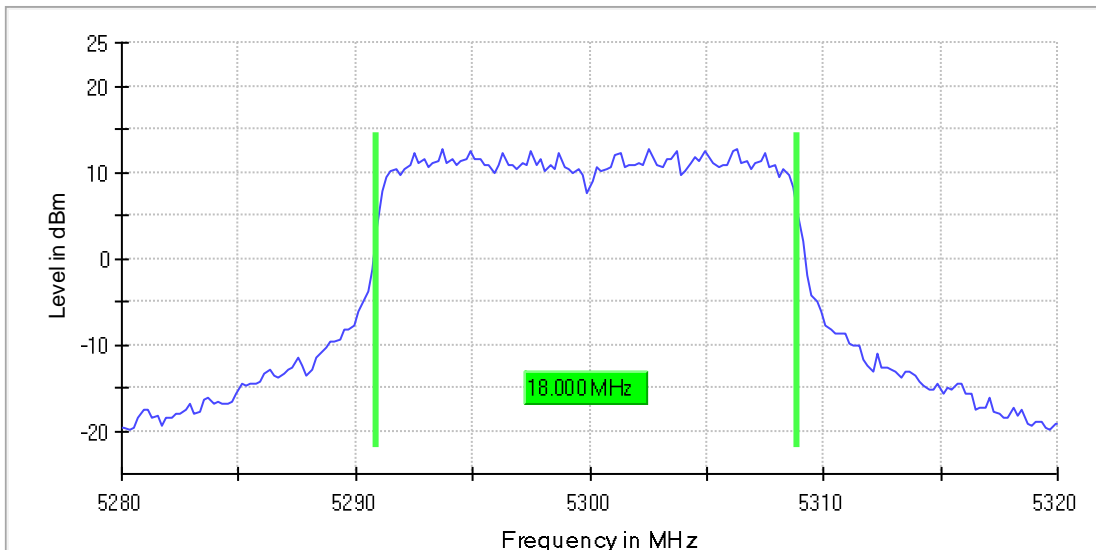
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5260.000000 | 18.000000 | --- | --- | 5250.900000 | 5268.900000 | PASS |



99 % Bandwidth

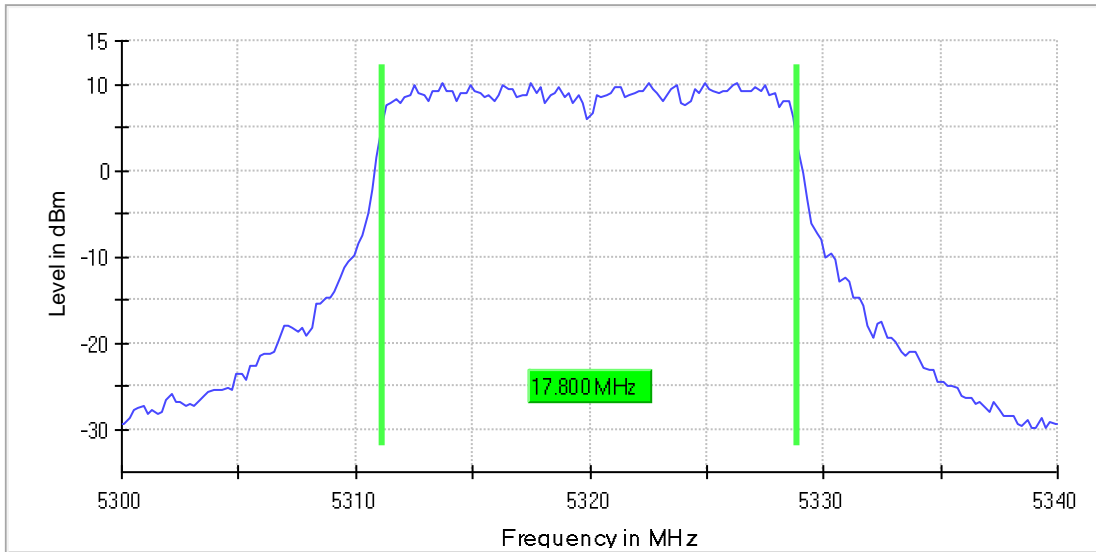
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5300.000000 | 18.000000 | --- | --- | 5290.900000 | 5308.900000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5320.000000 | 17.800000 | --- | --- | 5311.100000 | 5328.900000 | PASS |



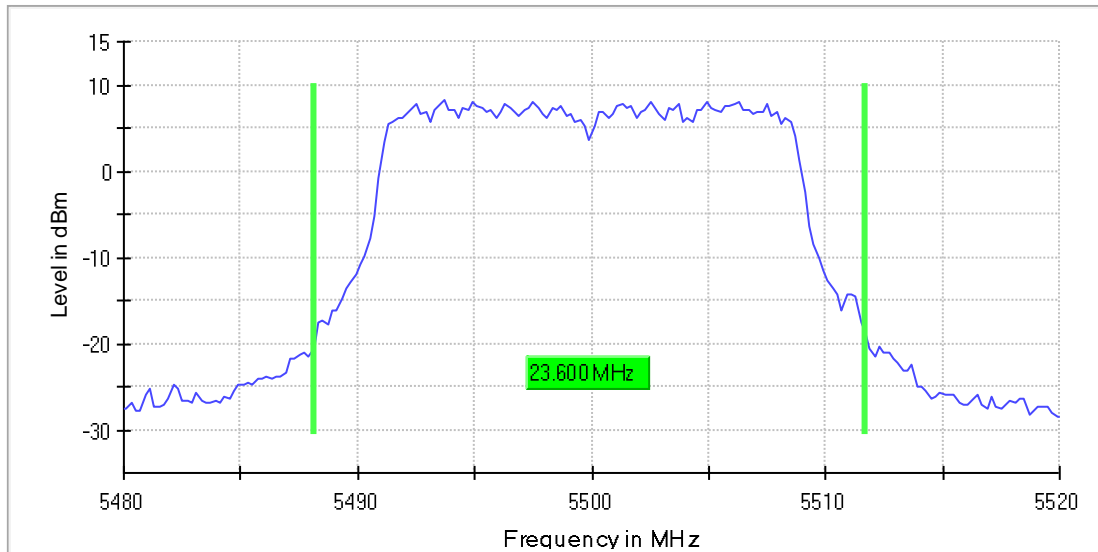


6.2.4.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 23.600000 | --- | --- | 5488.100000 | 5511.700000 | 8.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

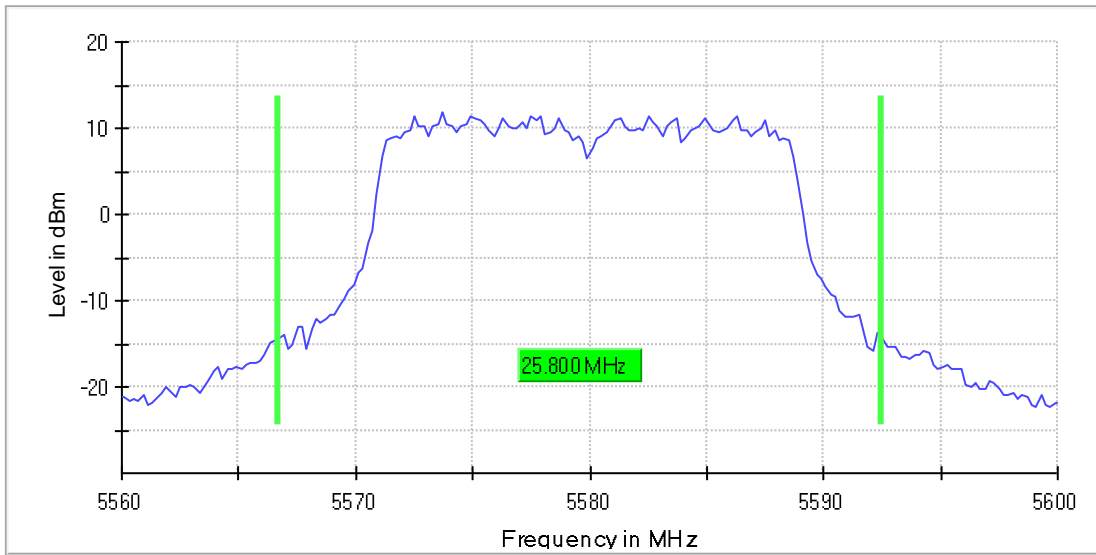




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 25.800000 | --- | --- | 5566.700000 | 5592.500000 | 11.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

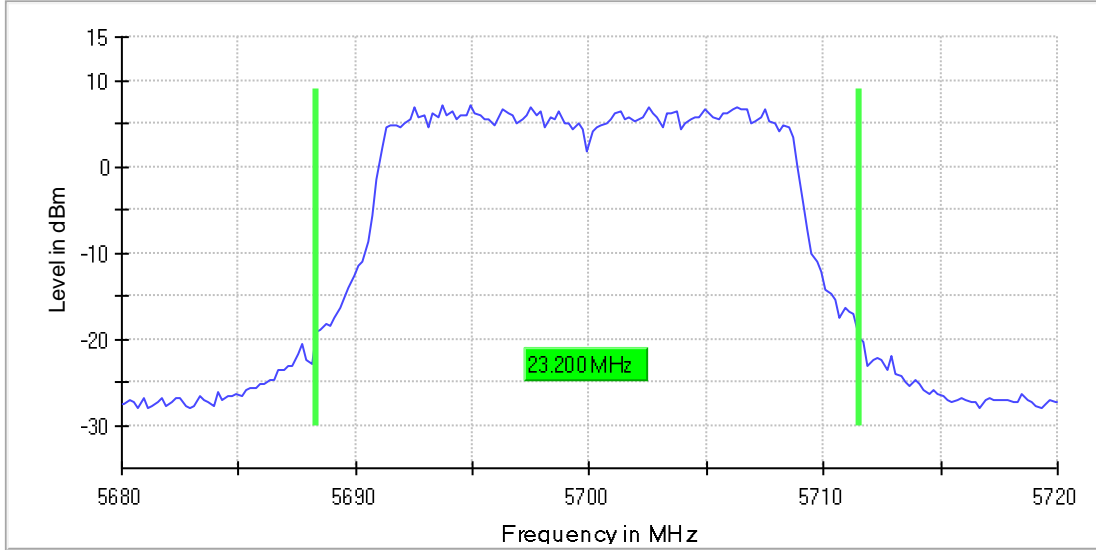




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 23.200000 | --- | --- | 5688.300000 | 5711.500000 | 7.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

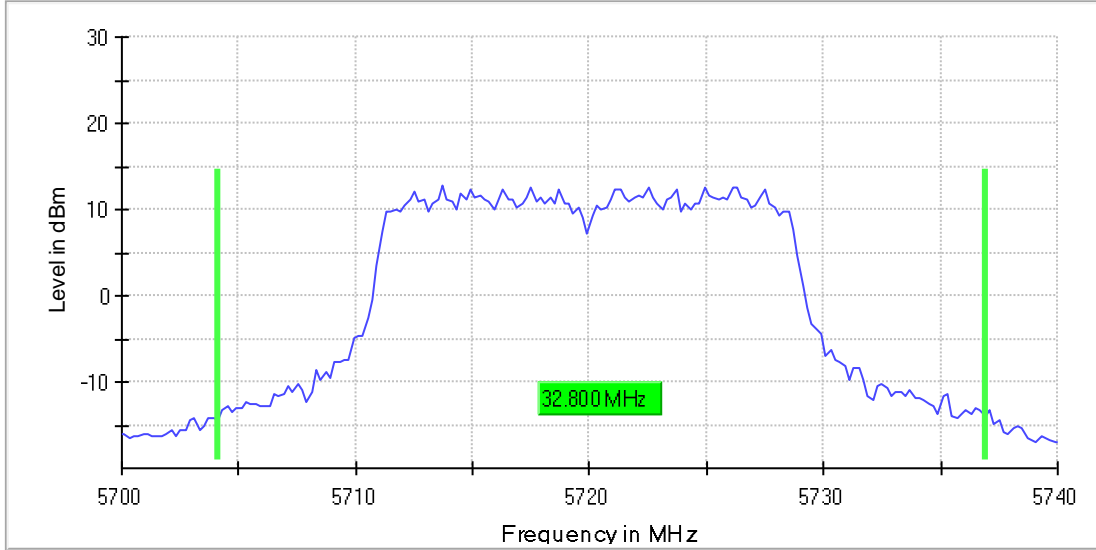




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5720.000000 | 32.800000 | --- | --- | 5704.100000 | 5736.900000 | 12.7 |

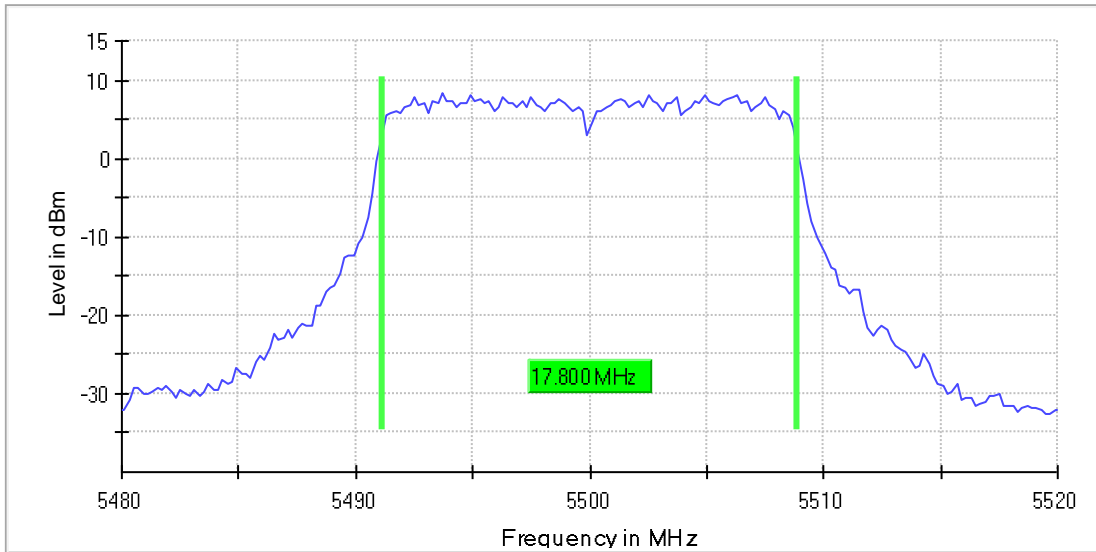
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |





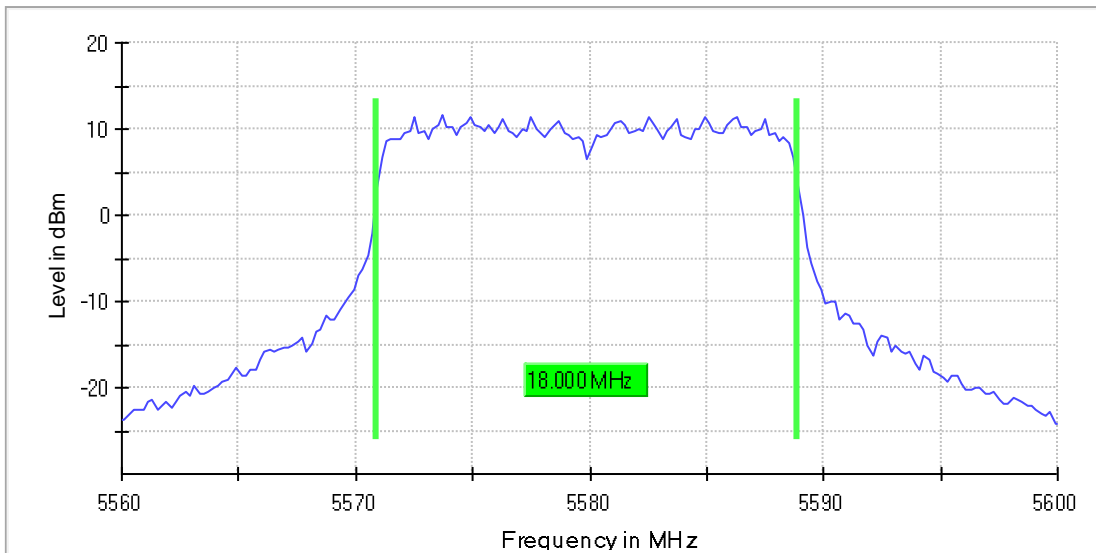
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5500.000000 | 17.800000 | --- | --- | 5491.100000 | 5508.900000 | PASS |



99 % Bandwidth

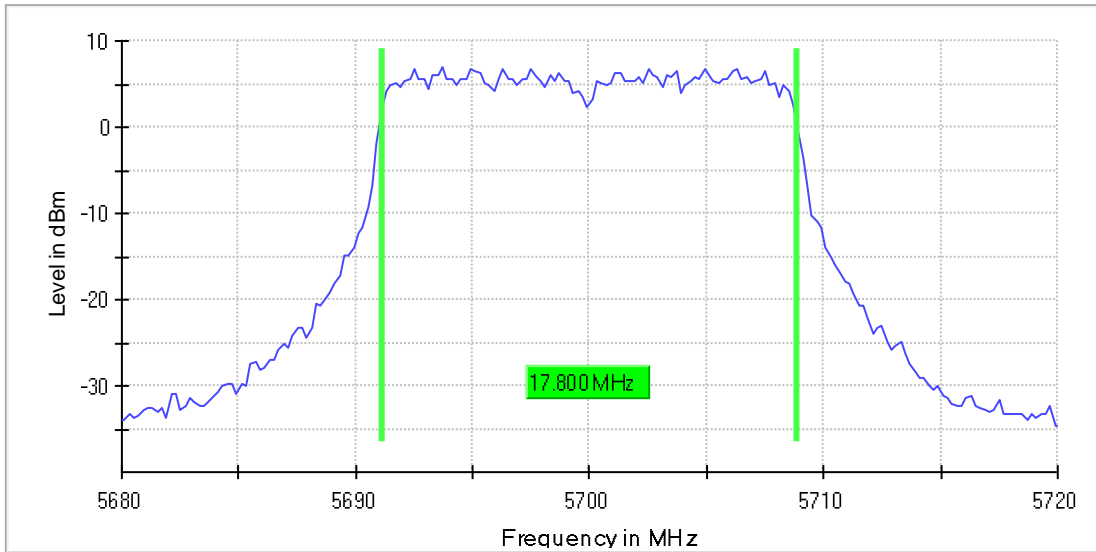
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5580.000000 | 18.000000 | --- | --- | 5570.900000 | 5588.900000 | PASS |





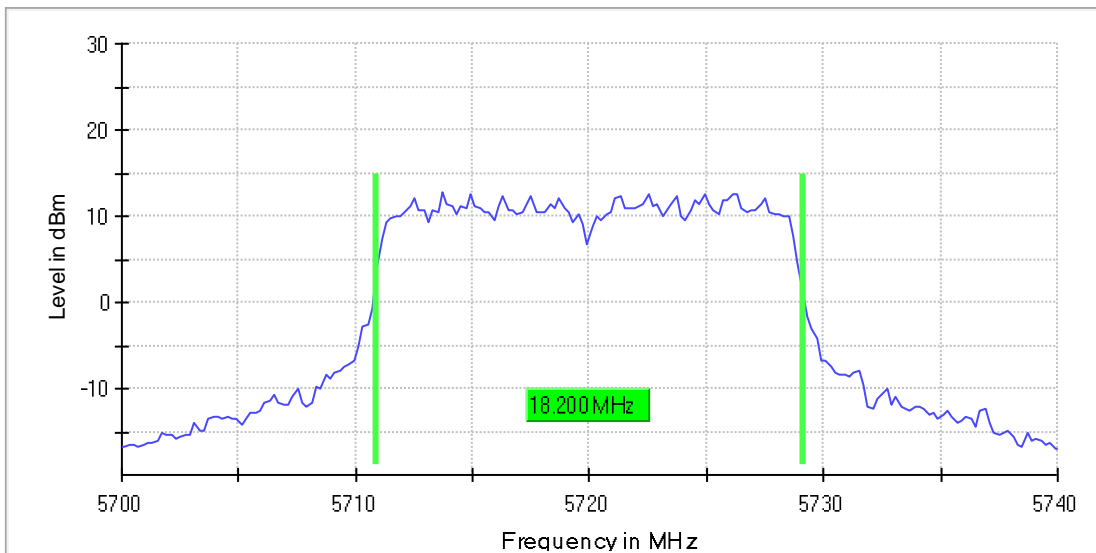
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5700.000000 | 17.800000 | --- | --- | 5691.100000 | 5708.900000 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5720.000000 | 18.200000 | --- | --- | 5710.900000 | 5729.100000 | PASS |



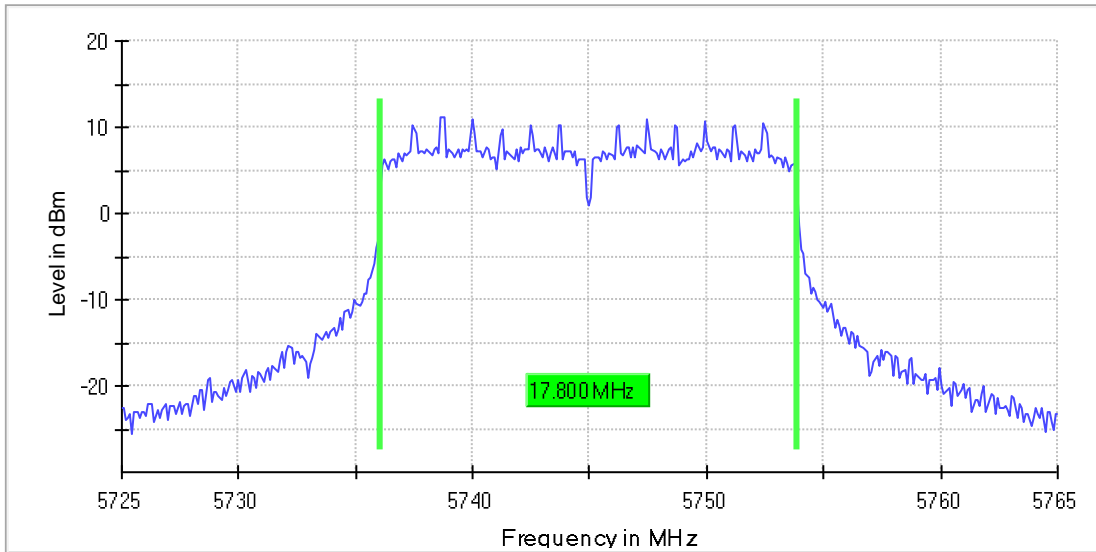


6.2.4.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 17.800000 | 0.500000 | --- | 5736.050000 | 5753.850000 | 11.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

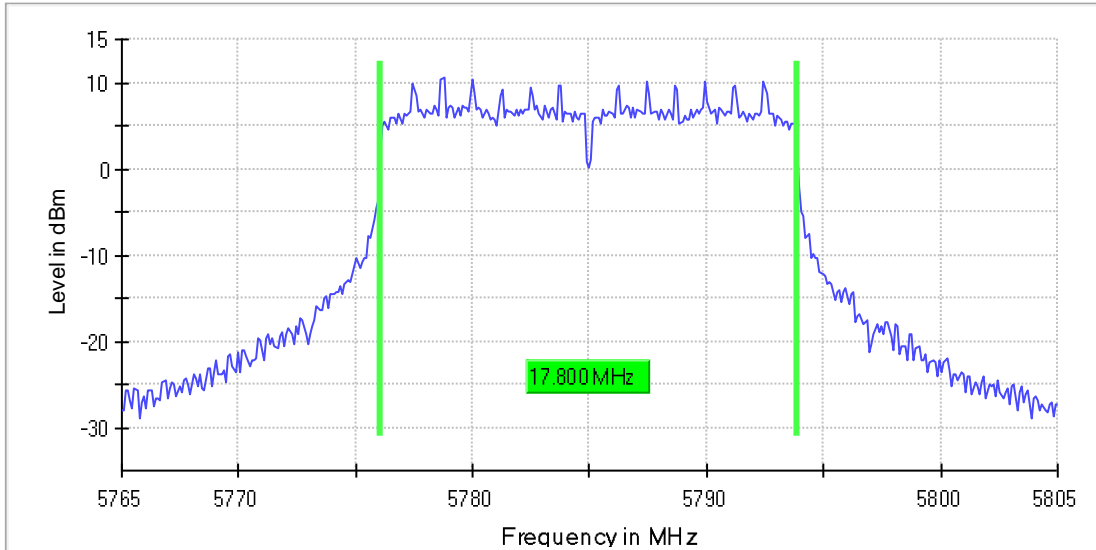




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 17.800000 | 0.500000 | --- | 5776.050000 | 5793.850000 | 10.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

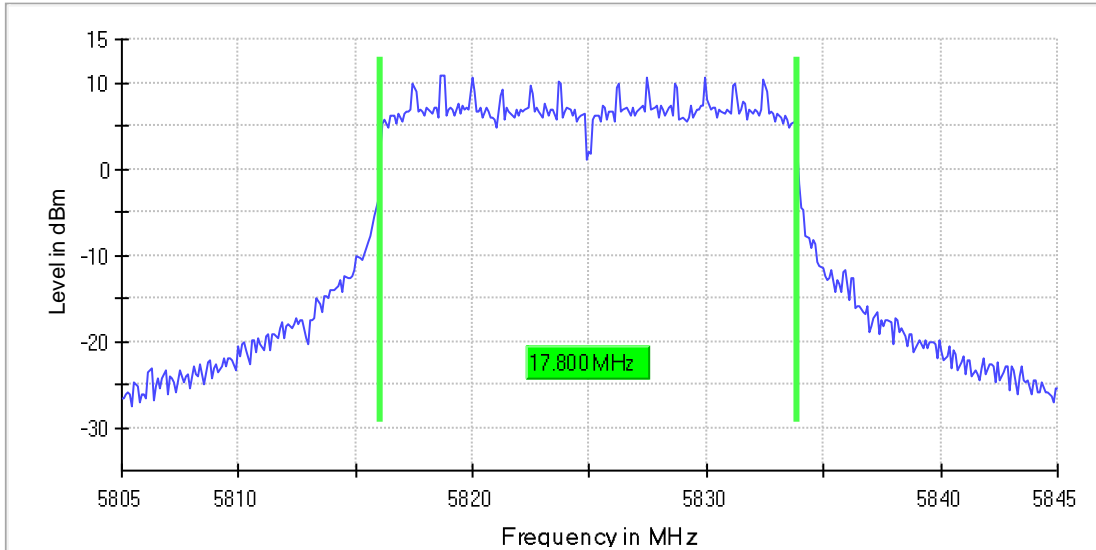




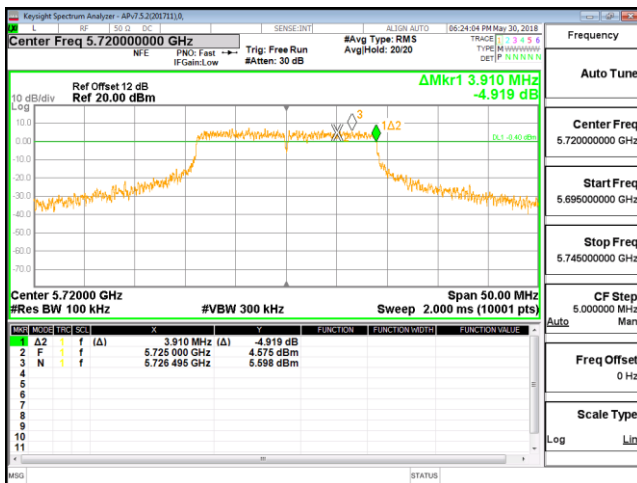
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 17.800000 | 0.500000 | --- | 5816.050000 | 5833.850000 | 10.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



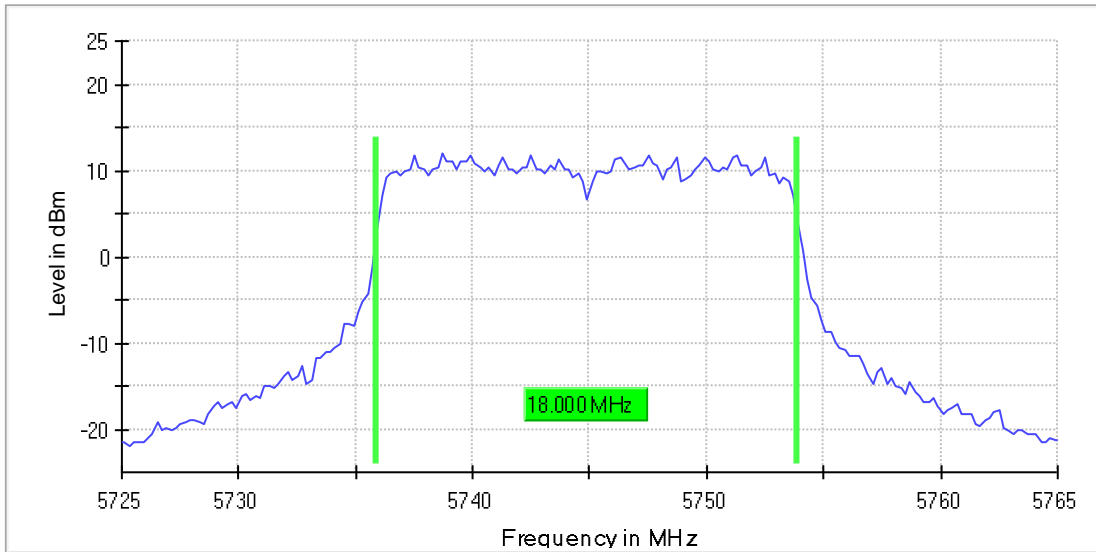
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.91 | 0.500000 | PASS |





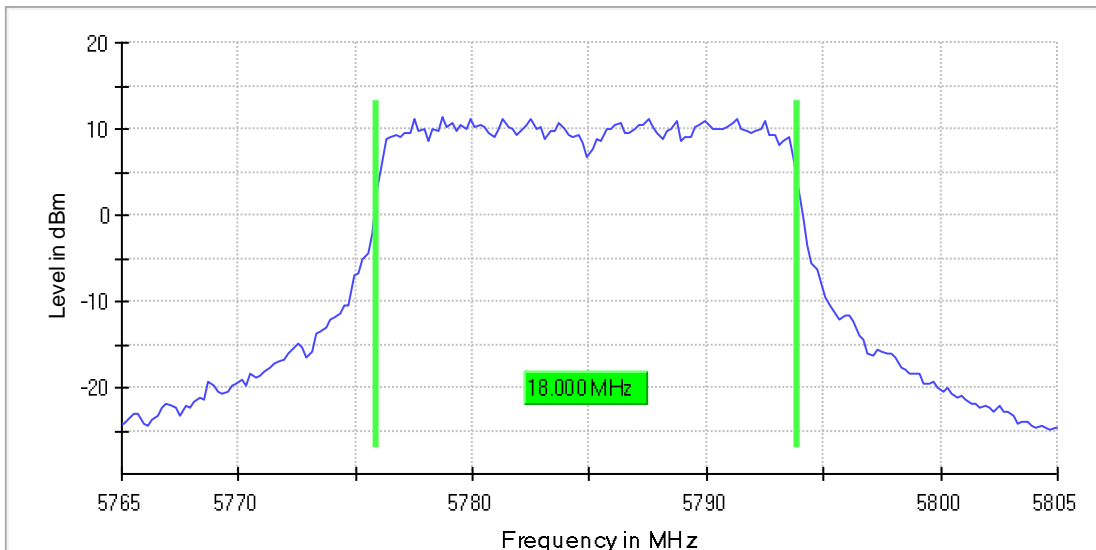
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5745.000000 | 18.000000 | --- | --- | 5735.900000 | 5753.900000 | PASS |



99 % Bandwidth

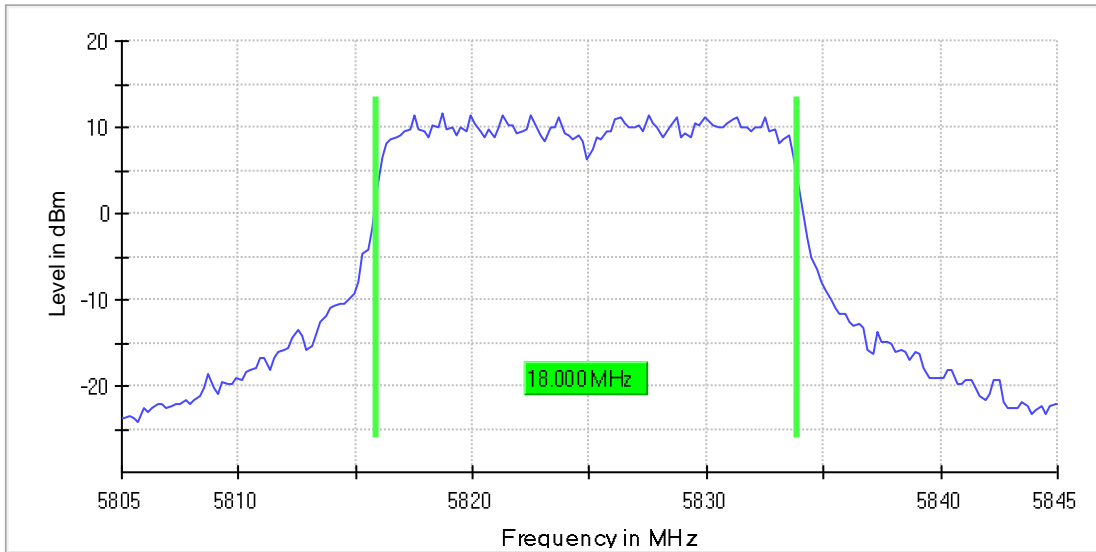
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5785.000000 | 18.000000 | --- | --- | 5775.900000 | 5793.900000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5825.000000 | 18.000000 | --- | --- | 5815.900000 | 5833.900000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



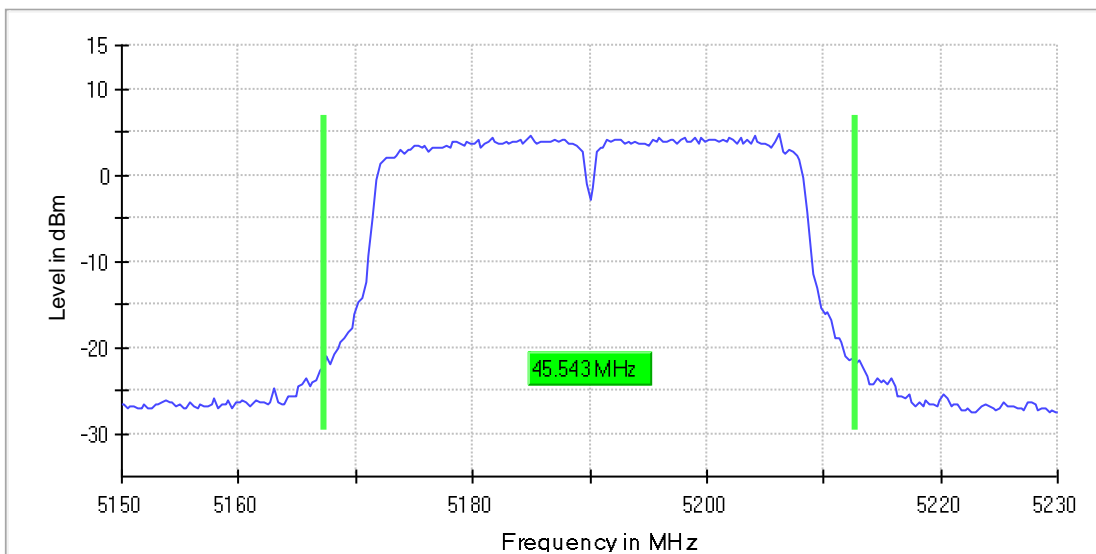
6.2.5. 802.11ac HT40 SISO MODE

6.2.5.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5190.000000 | 45.543072 | --- | --- | 5167.228464 | 5212.771536 | 4.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5190.000000 | PASS |

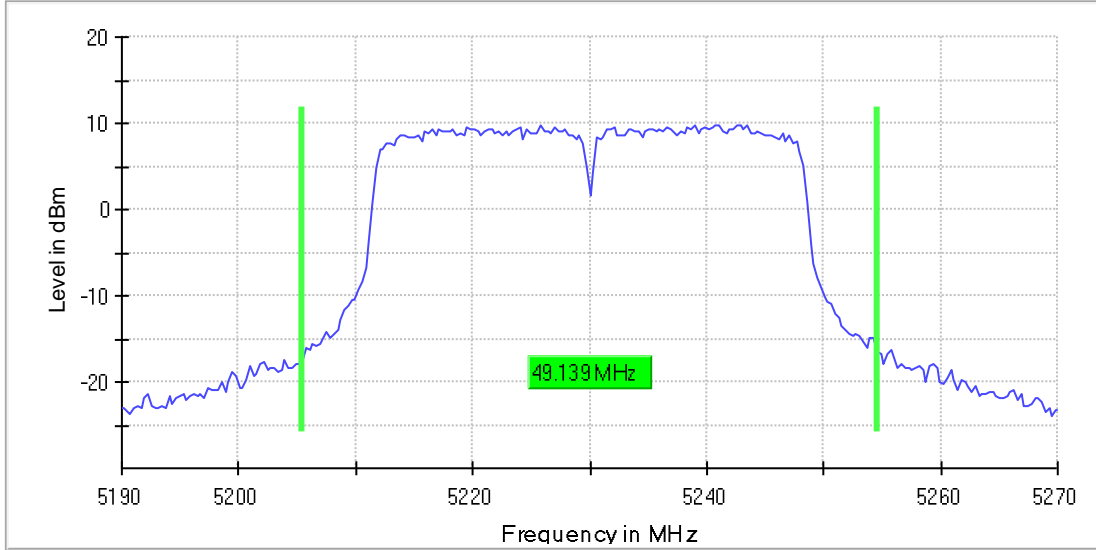




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5230.000000 | 49.138576 | --- | --- | 5205.430712 | 5254.569288 | 9.9 |

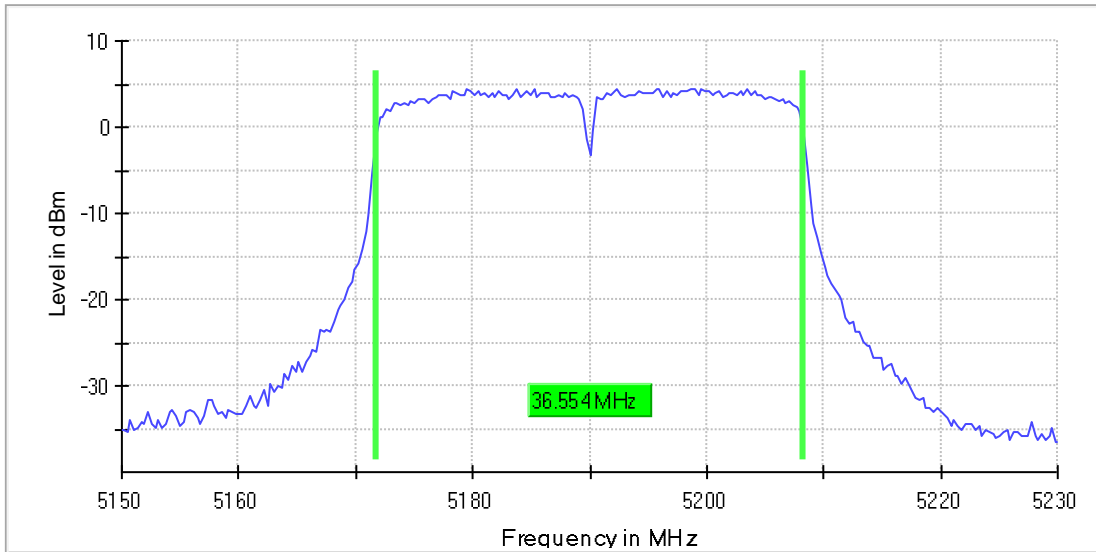
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5230.000000 | PASS |





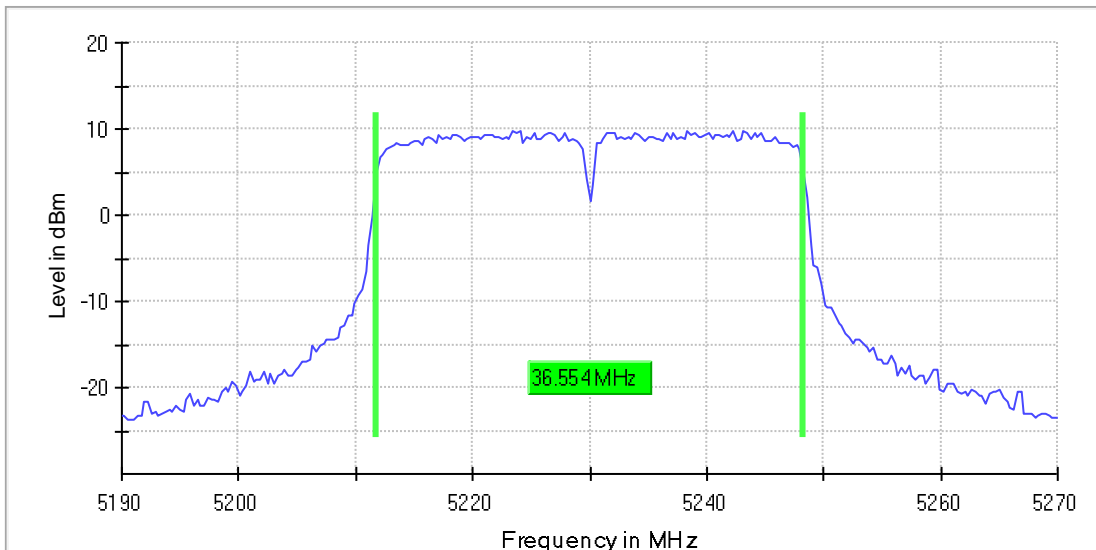
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5190.000000 | 36.554308 | --- | --- | 5171.722846 | 5208.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5230.000000 | 36.554308 | --- | --- | 5211.722846 | 5248.277154 | PASS |



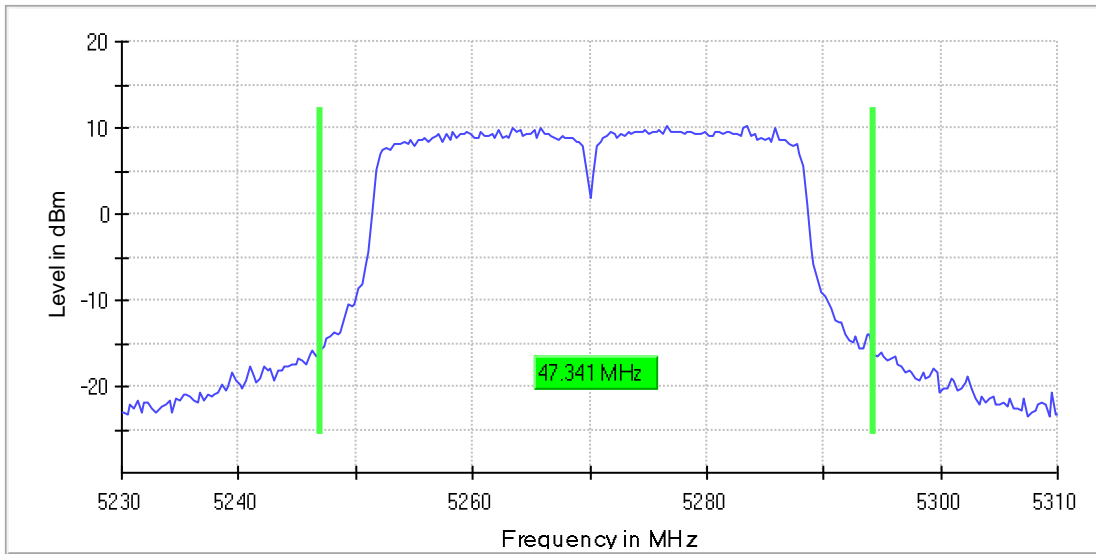


6.2.5.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5270.000000 | 47.340824 | --- | --- | 5246.928839 | 5294.269663 | 10.3 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5270.000000 | PASS |

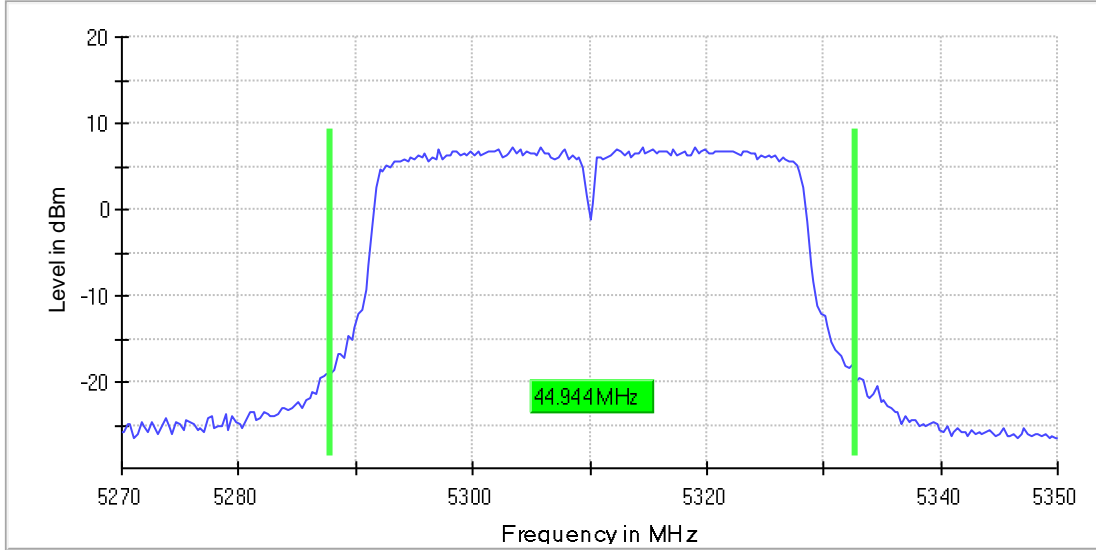




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5310.000000 | 44.943821 | --- | --- | 5287.827715 | 5332.771536 | 7.3 |

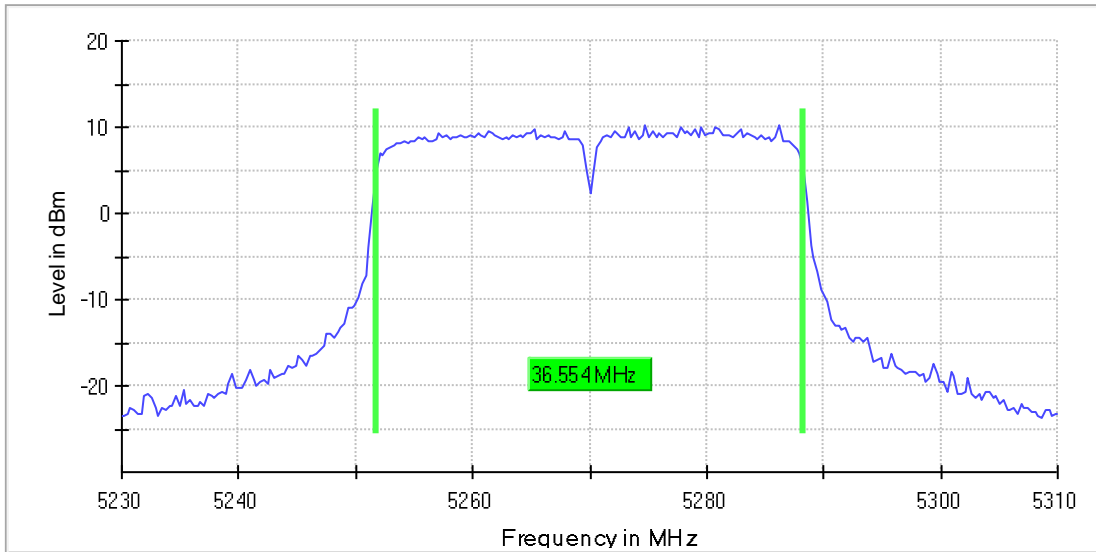
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5310.000000 | PASS |





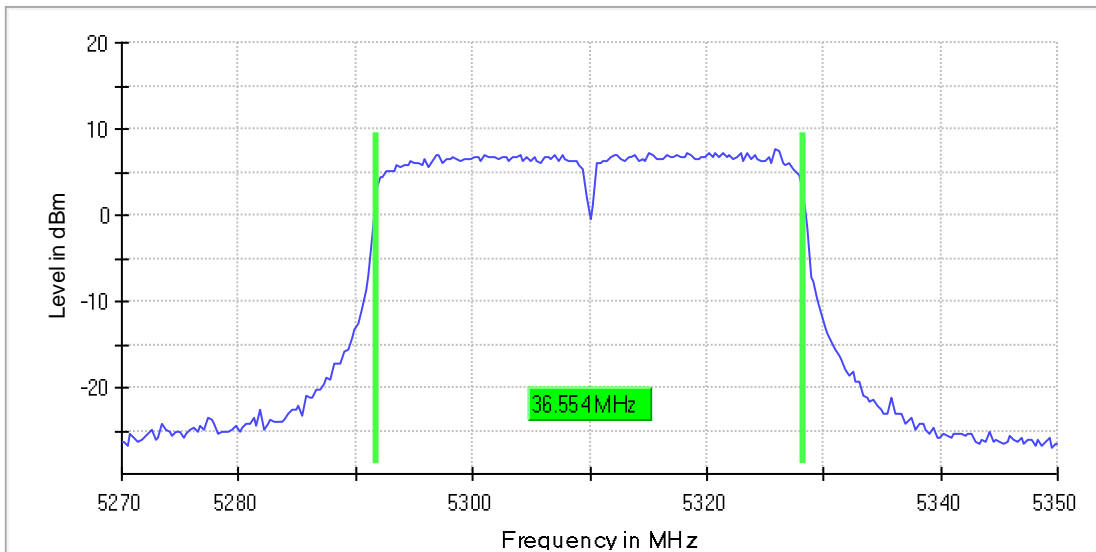
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5270.000000 | 36.554308 | --- | --- | 5251.722846 | 5288.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5310.000000 | 36.554308 | --- | --- | 5291.722846 | 5328.277154 | PASS |



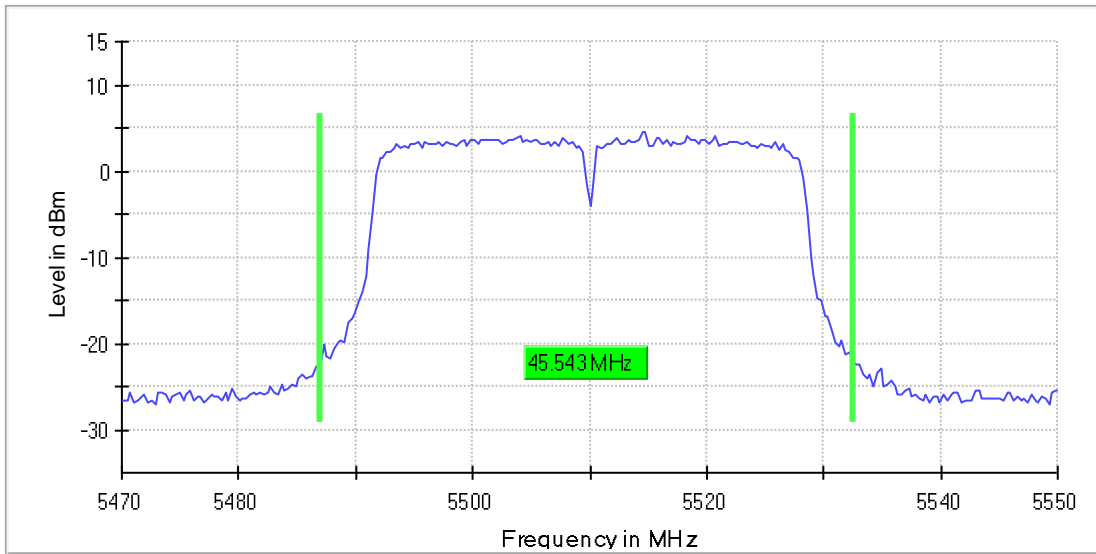


6.2.5.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5510.000000 | 45.543071 | --- | --- | 5486.928839 | 5532.471910 | 4.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5510.000000 | PASS |

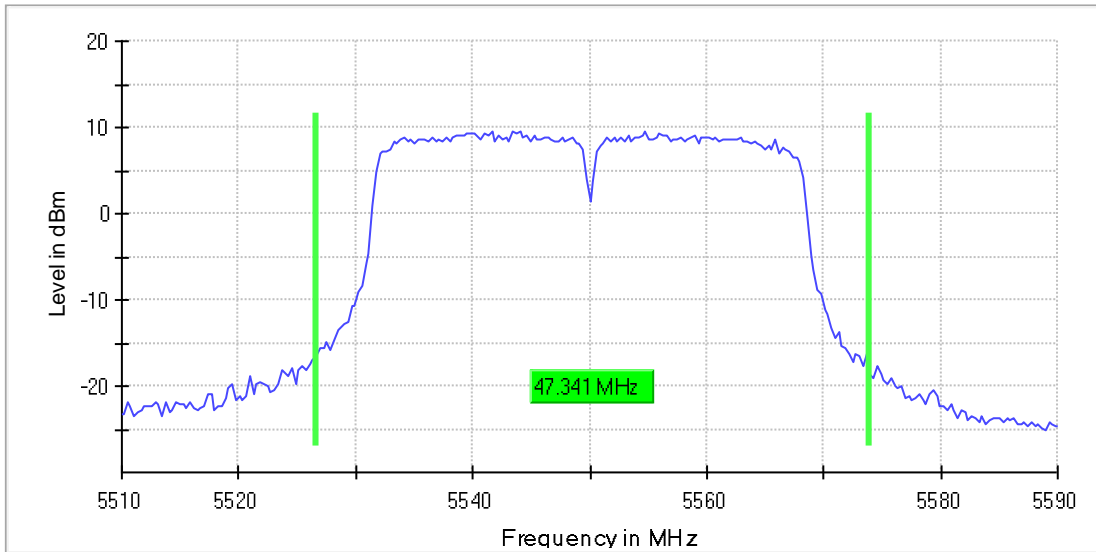




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5550.000000 | 47.340824 | --- | --- | 5526.629213 | 5573.970037 | 9.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5550.000000 | PASS |

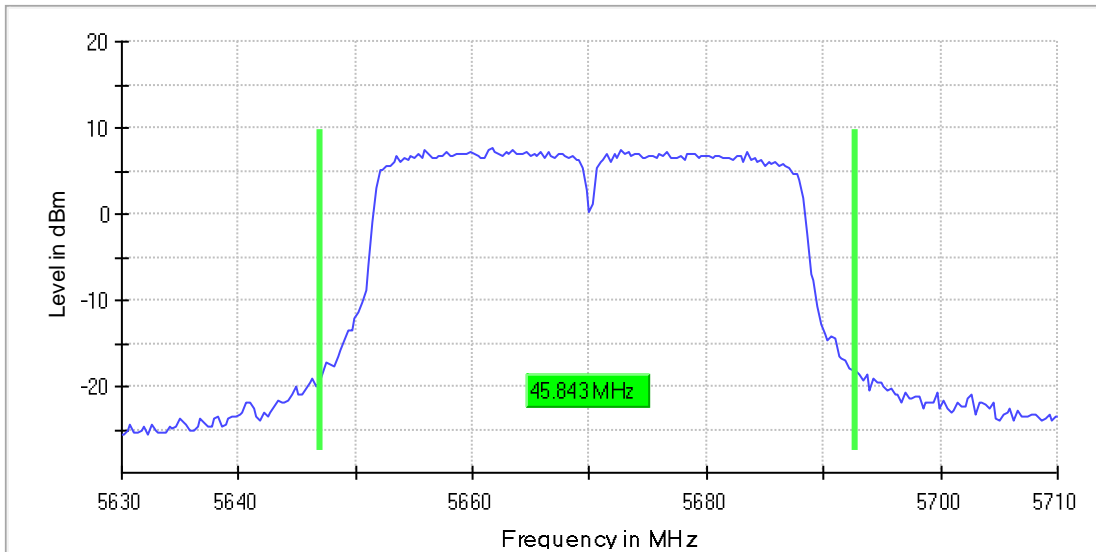




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5670.000000 | 45.842697 | --- | --- | 5646.928839 | 5692.771536 | 7.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5670.000000 | PASS |

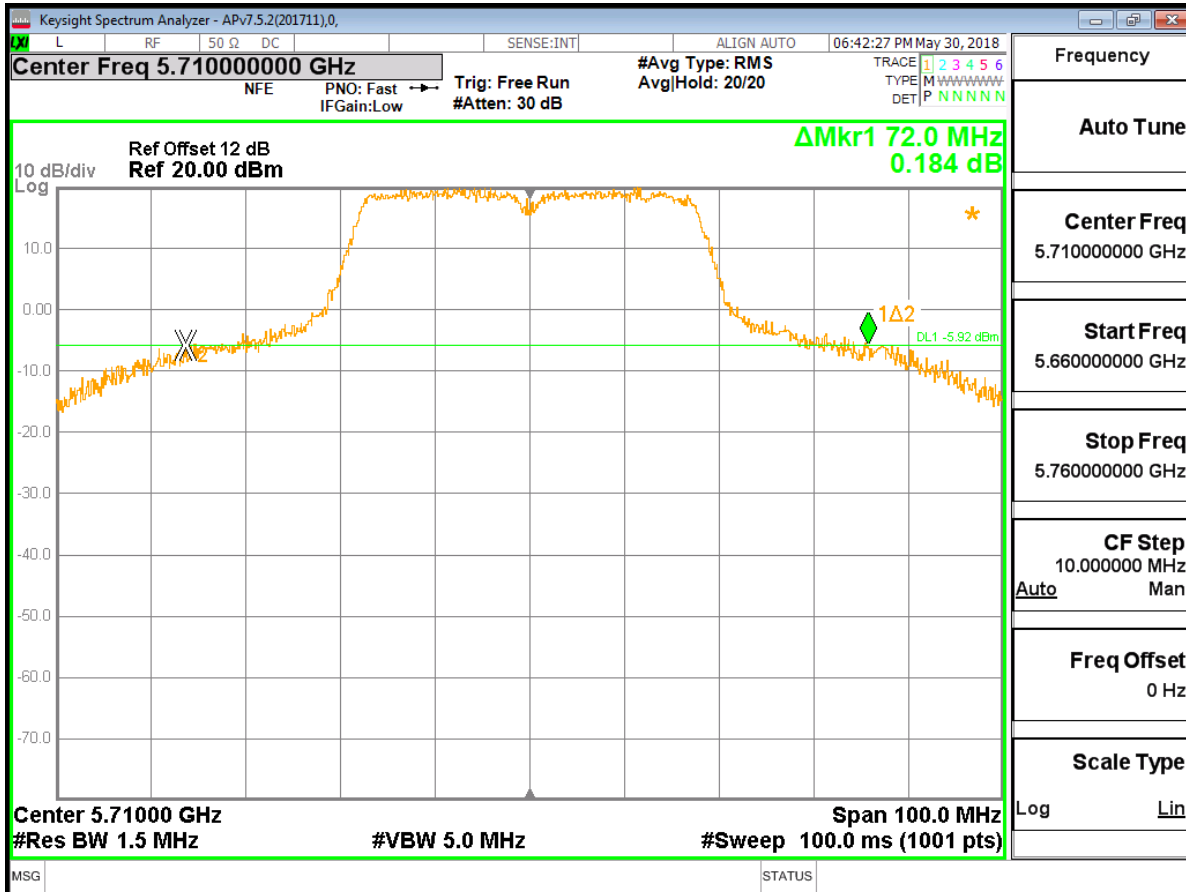




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) |
|---------------------|-----------------|
| 5710.000000 | 72.000 |

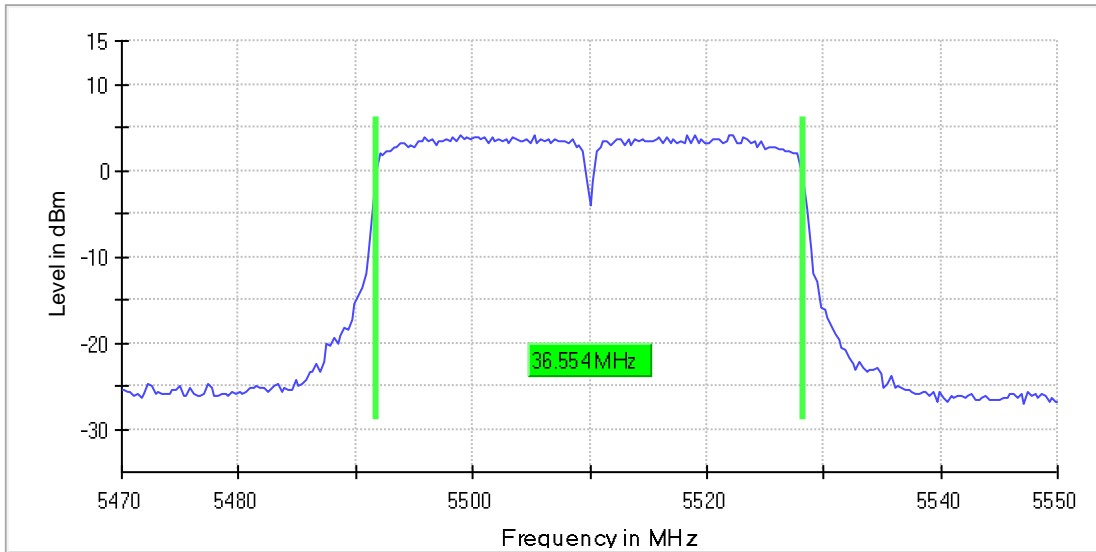
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5710.000000 | PASS |





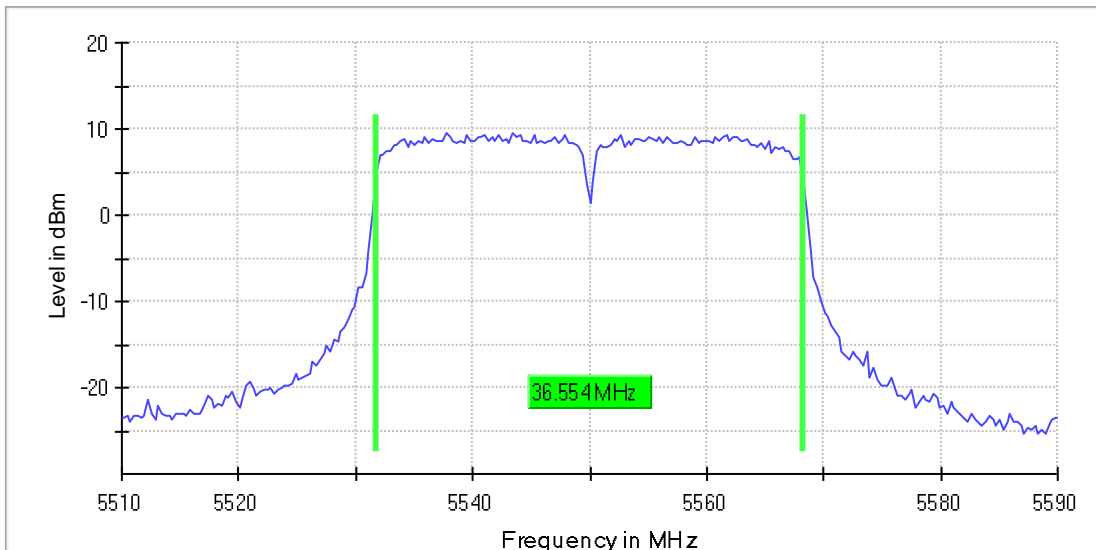
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5510.000000 | 36.554308 | --- | --- | 5491.722846 | 5528.277154 | PASS |



99 % Bandwidth

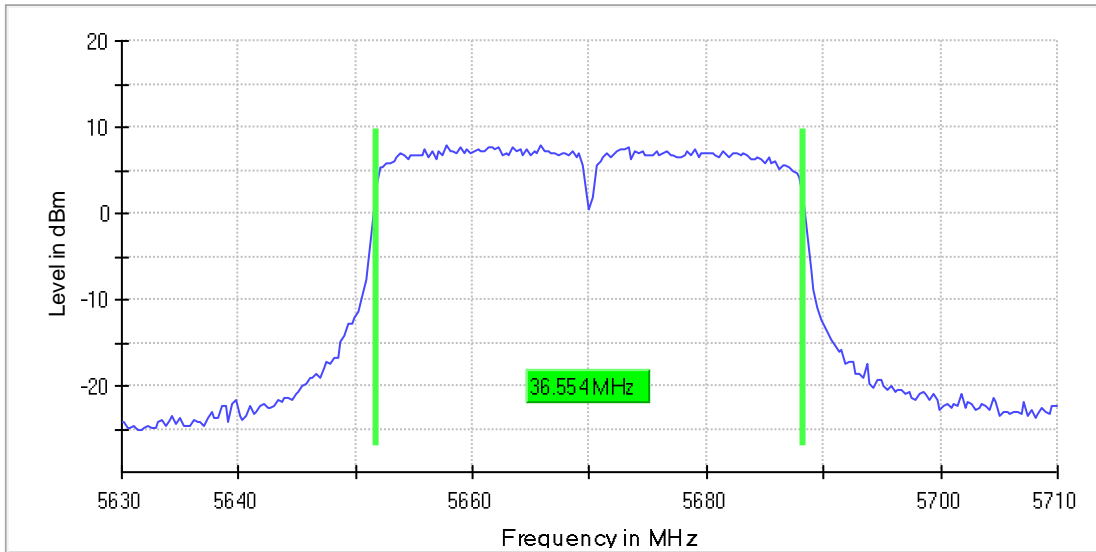
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5550.000000 | 36.554308 | --- | --- | 5531.722846 | 5568.277154 | PASS |





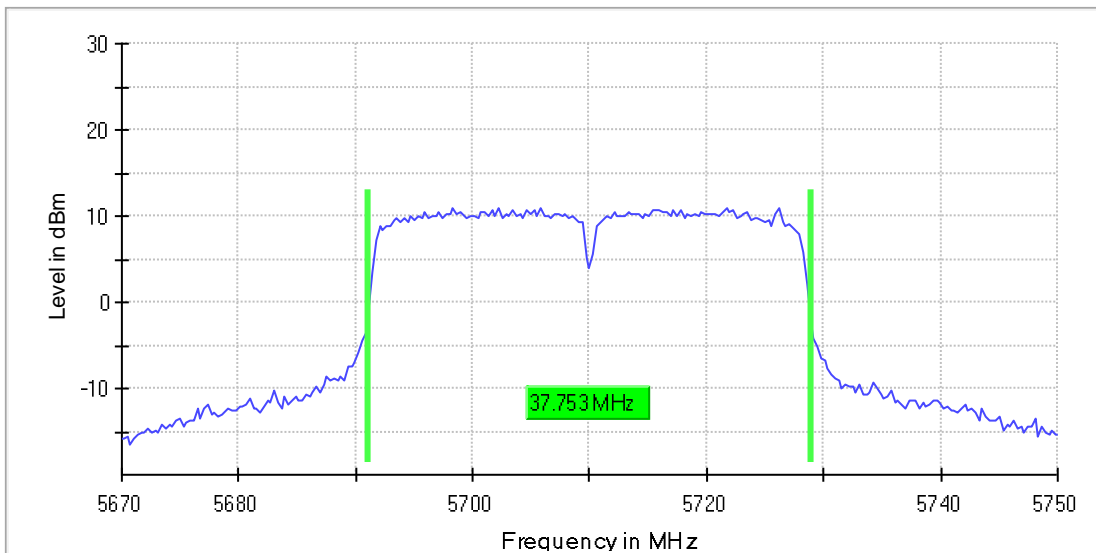
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5670.000000 | 36.554308 | --- | --- | 5651.722846 | 5688.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5710.000000 | 37.752808 | --- | --- | 5691.123596 | 5728.876404 | PASS |



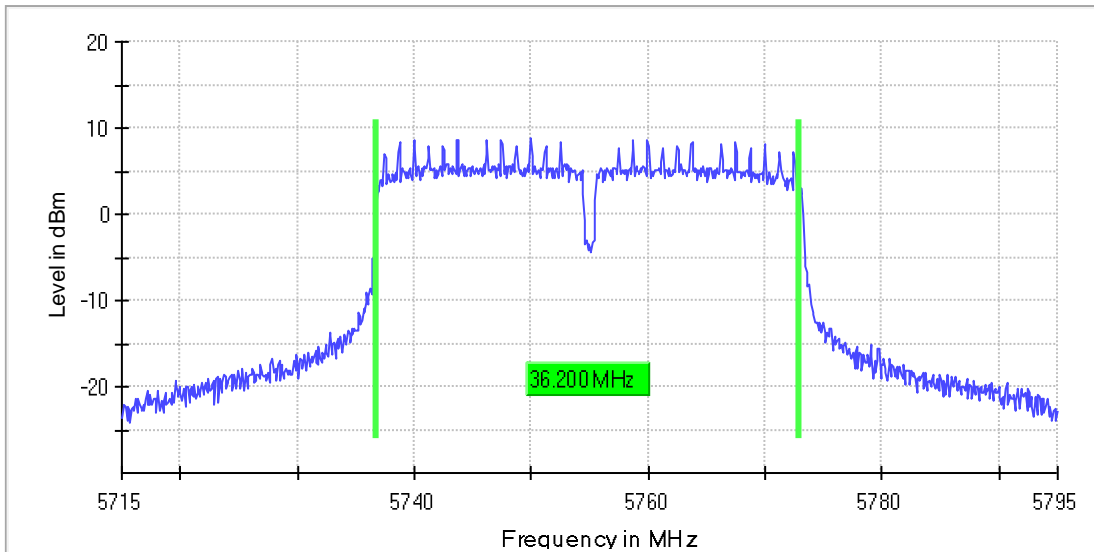


6.2.5.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5755.000000 | 36.200000 | 0.500000 | --- | 5736.750000 | 5772.950000 | 8.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5755.000000 | PASS |

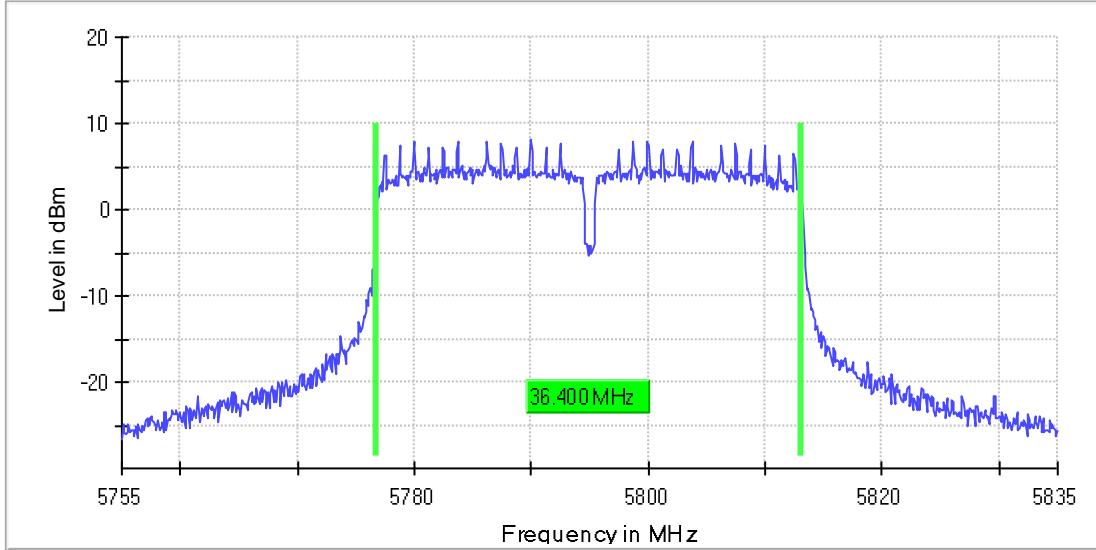




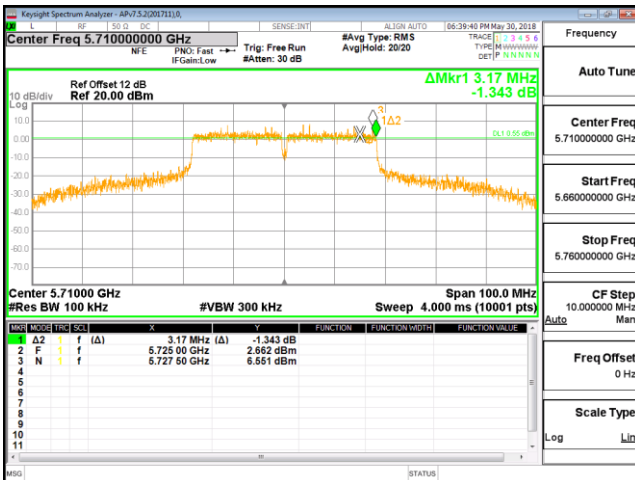
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5795.000000 | 36.400000 | 0.500000 | --- | 5776.750000 | 5813.150000 | 8.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5795.000000 | PASS |



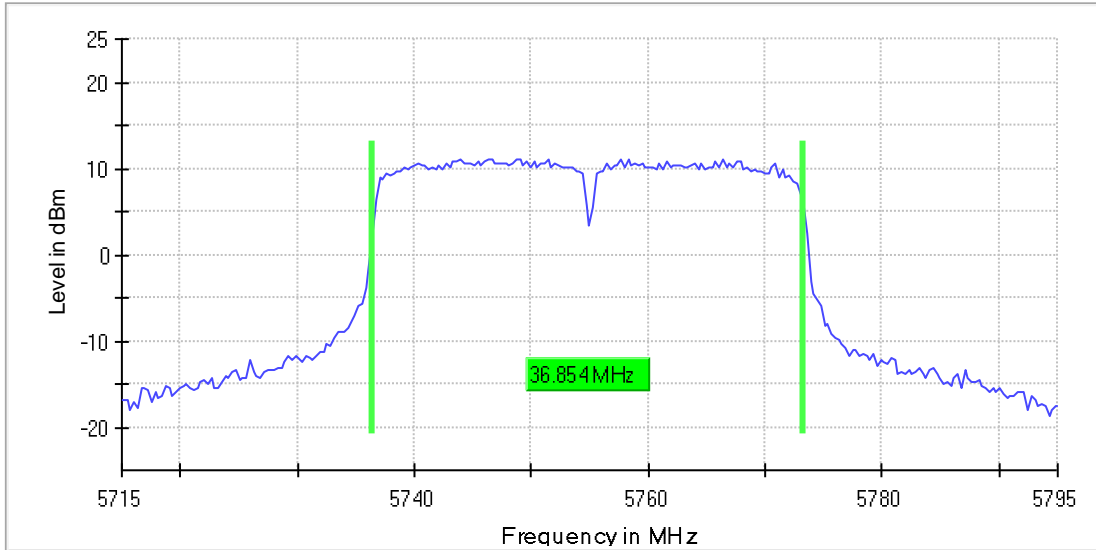
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5710.000000 | 3.17 | 0.500000 | PASS |





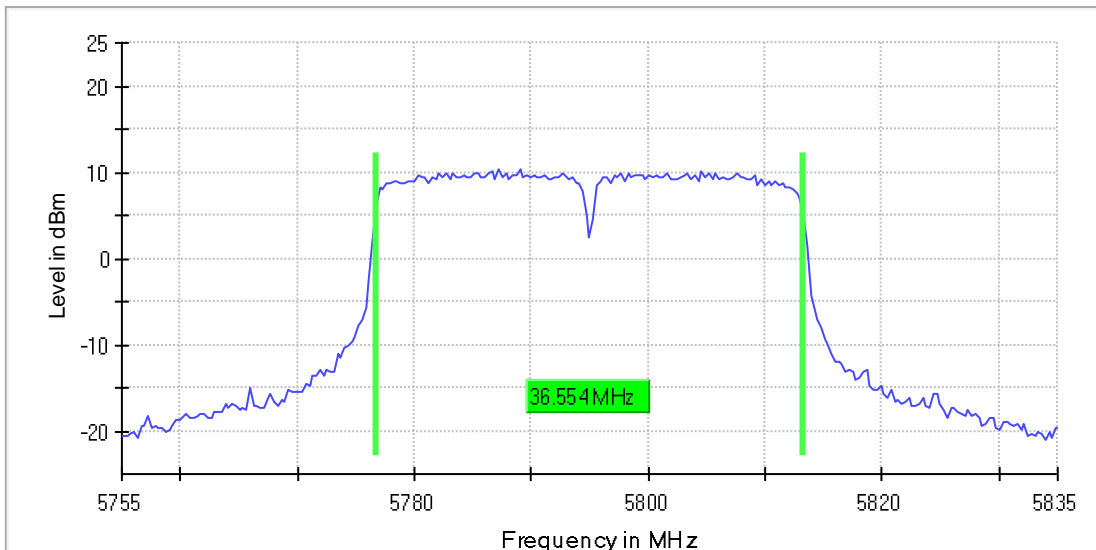
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5755.000000 | 36.853933 | --- | --- | 5736.423221 | 5773.277154 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5795.000000 | 36.554308 | --- | --- | 5776.722846 | 5813.277154 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



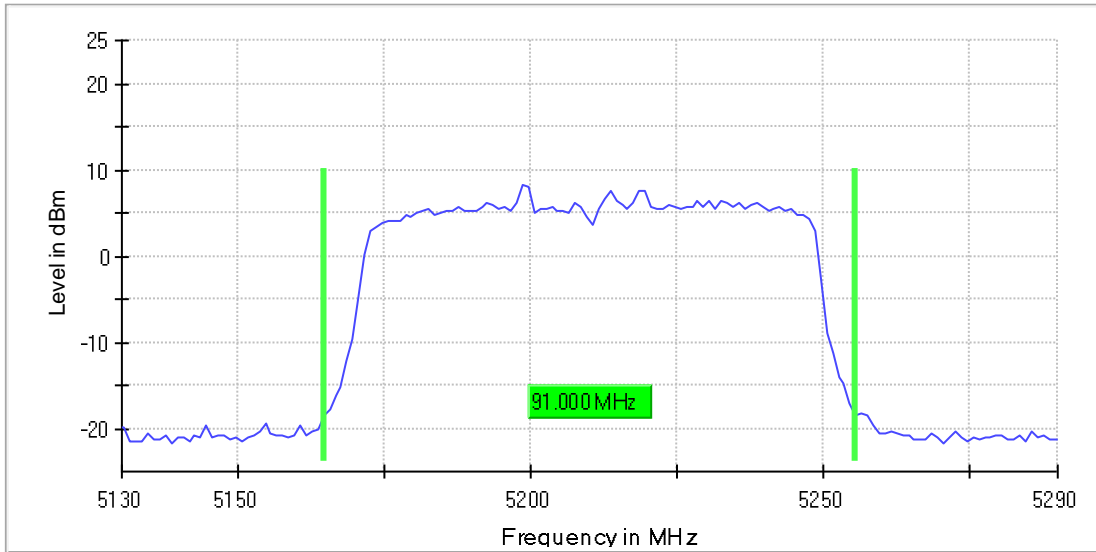
6.2.6. 802.11ac HT80 SISO MODE

6.2.6.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5210.000000 | 91.000000 | --- | --- | 5164.500000 | 5255.500000 | 8.2 |

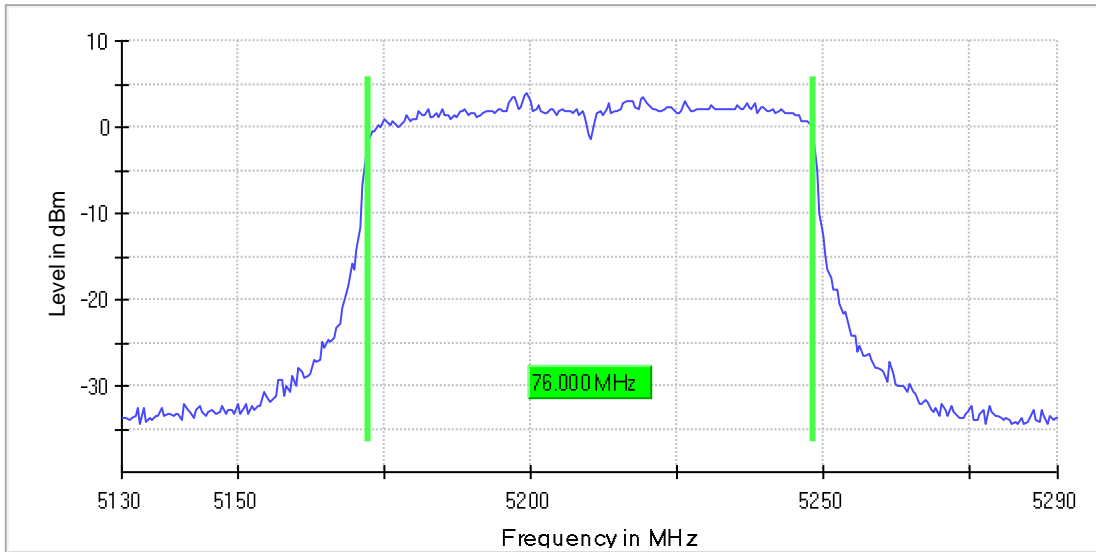
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5210.000000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5210.000000 | 76.000000 | --- | --- | 5172.250000 | 5248.250000 | PASS |



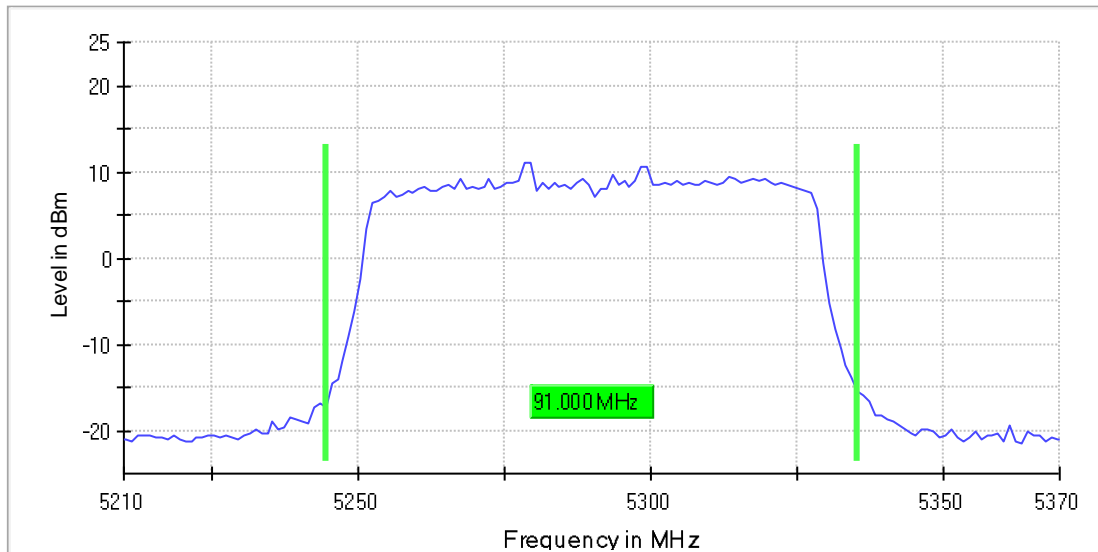


6.2.6.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5290.000000 | 91.000000 | --- | --- | 5244.500000 | 5335.500000 | 11.1 |

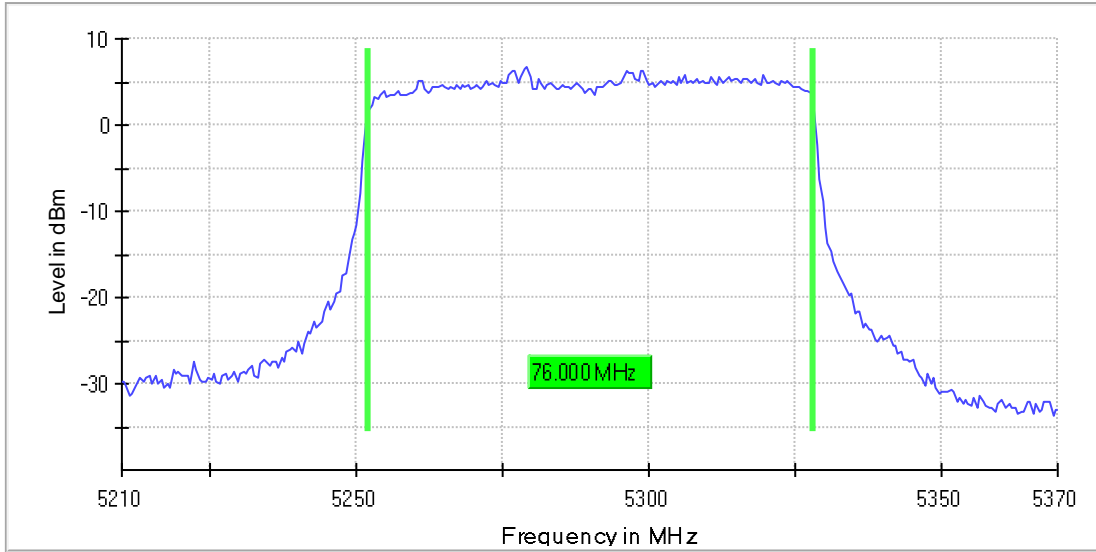
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5290.000000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5290.000000 | 76.000000 | --- | --- | 5252.250000 | 5328.250000 | PASS |



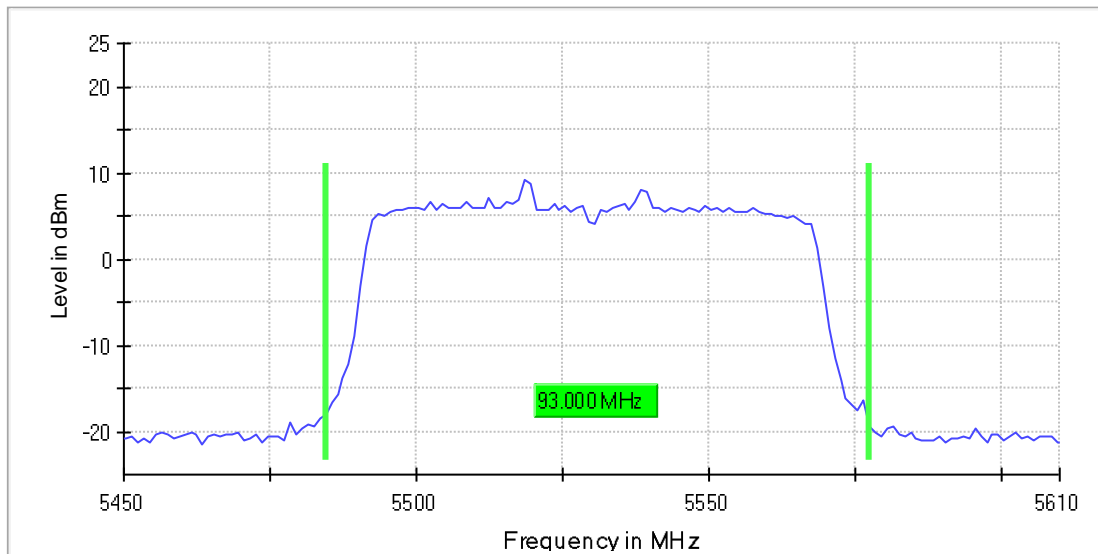


6.2.6.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5530.000000 | 93.000000 | --- | --- | 5484.500000 | 5577.500000 | 9.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5530.000000 | PASS |



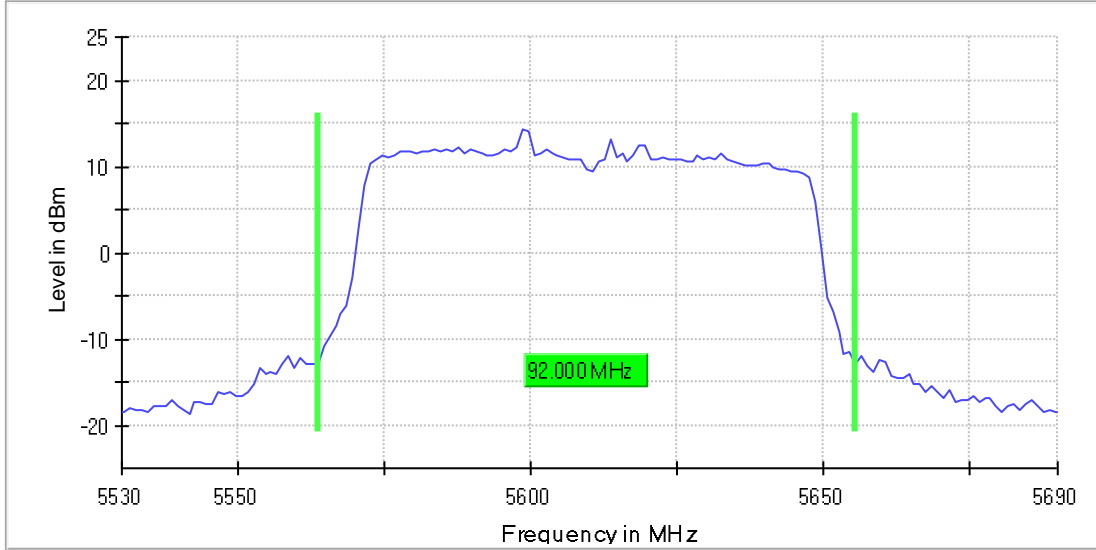
The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5610.000000 | 92.000000 | --- | --- | 5563.500000 | 5655.500000 | 14.3 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5610.000000 | PASS |

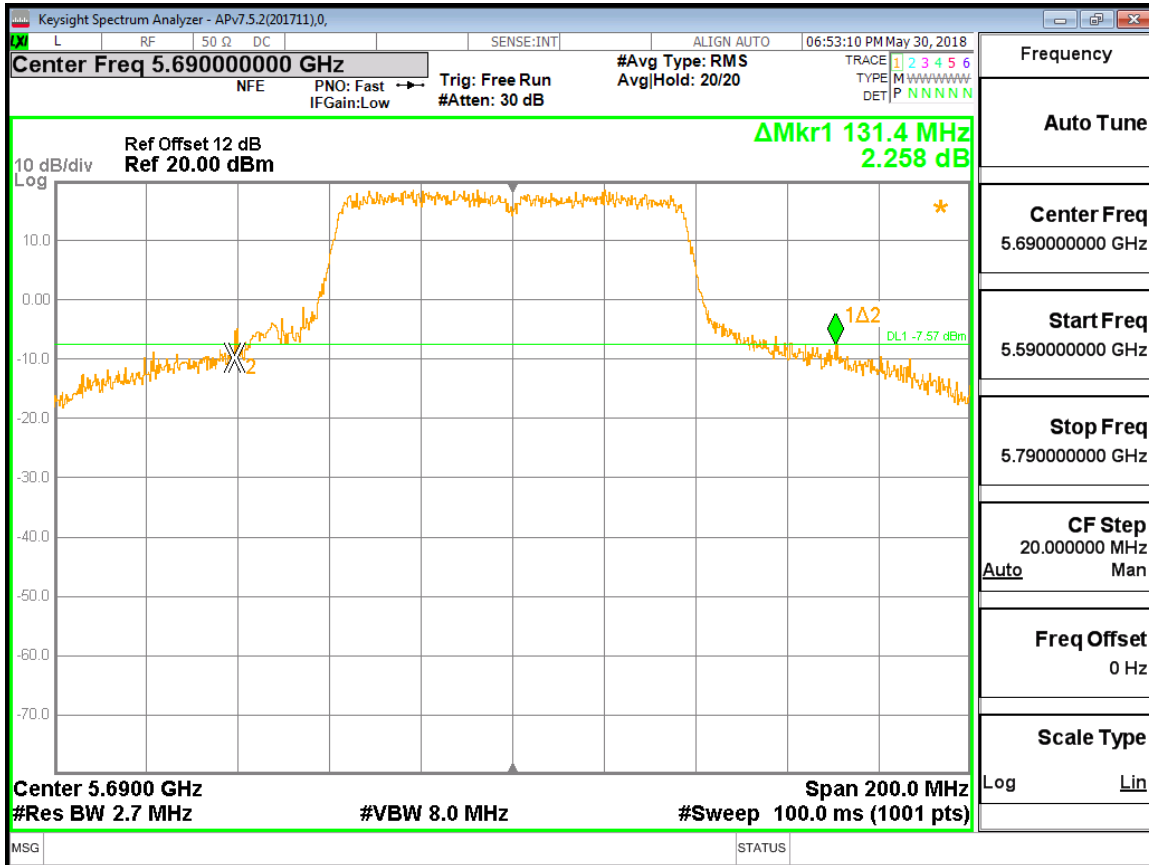




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5690.000000 | 131.14000 | --- | --- |

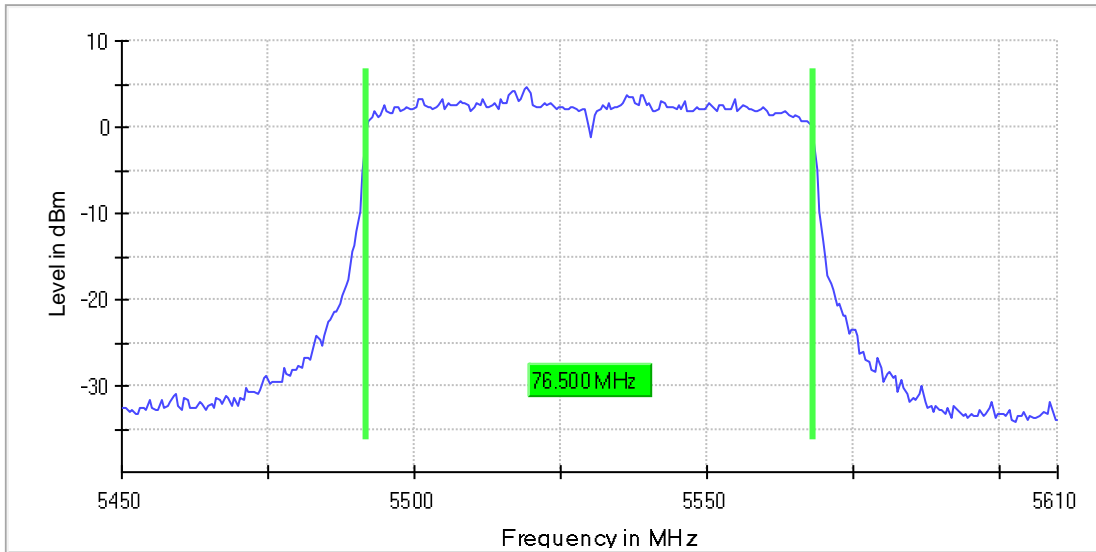
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5690.000000 | PASS |





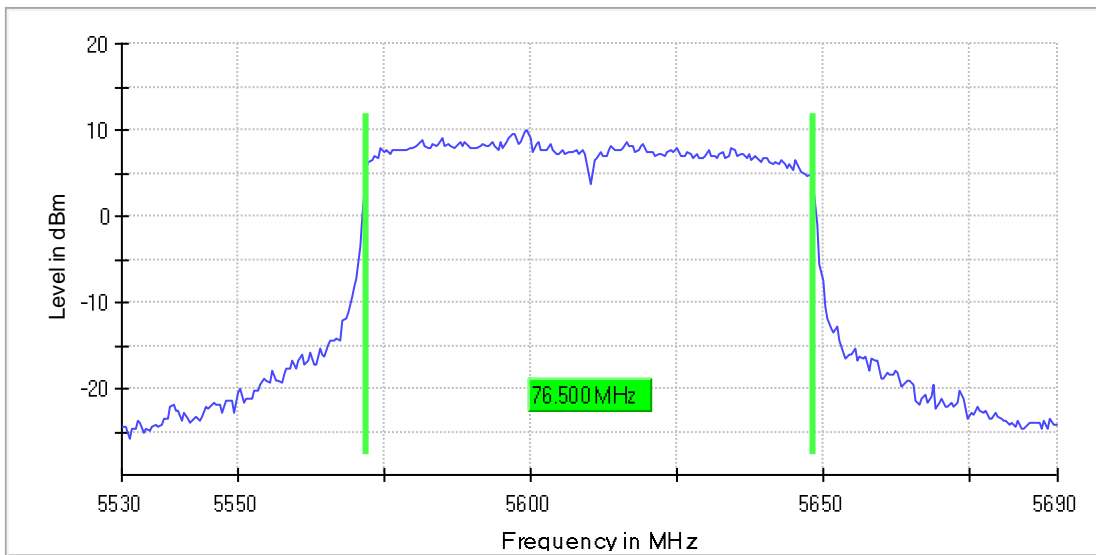
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5530.000000 | 76.500000 | --- | --- | 5491.750000 | 5568.250000 | PASS |



99 % Bandwidth

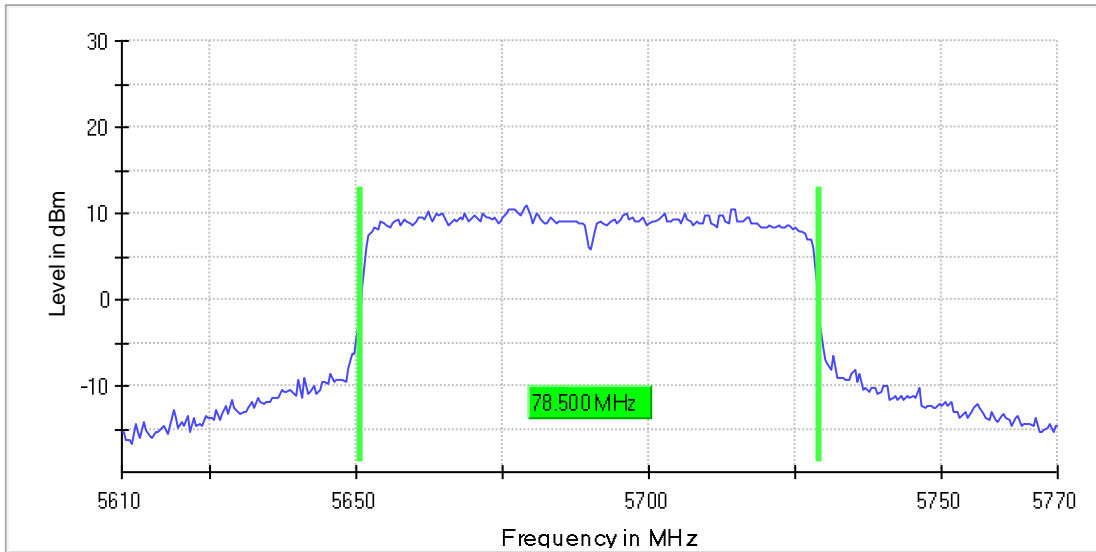
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5610.000000 | 76.500000 | --- | --- | 5571.750000 | 5648.250000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5690.000000 | 78.500000 | --- | --- | 5650.750000 | 5729.250000 | PASS |



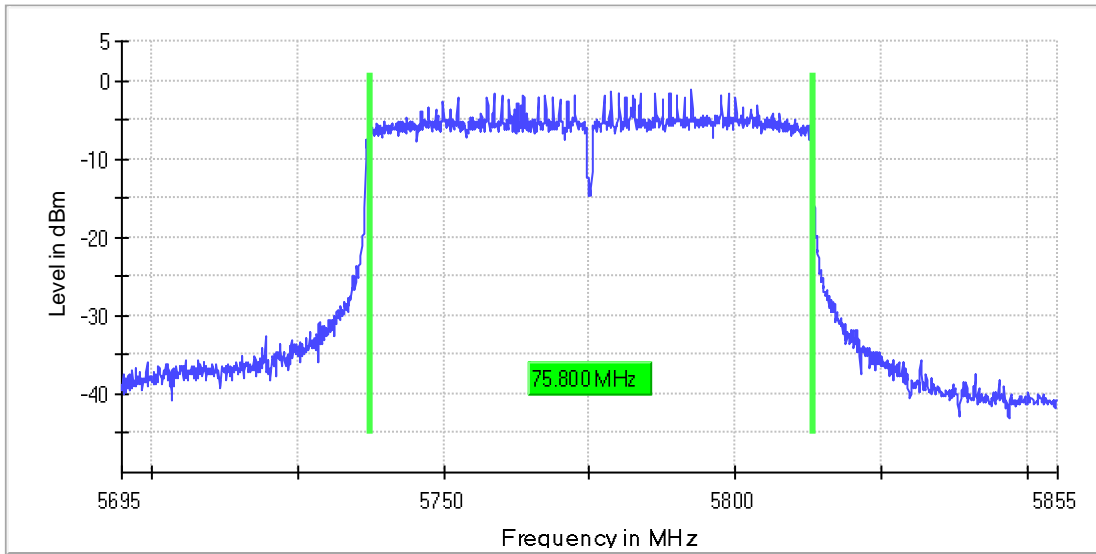


6.2.6.4. UNII-3 BAND

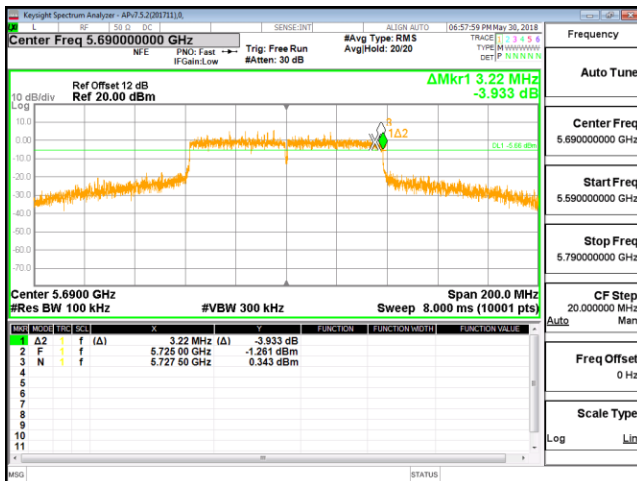
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5775.000000 | 75.800000 | 0.500000 | --- | 5737.350000 | 5813.150000 | -1.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000 | PASS |



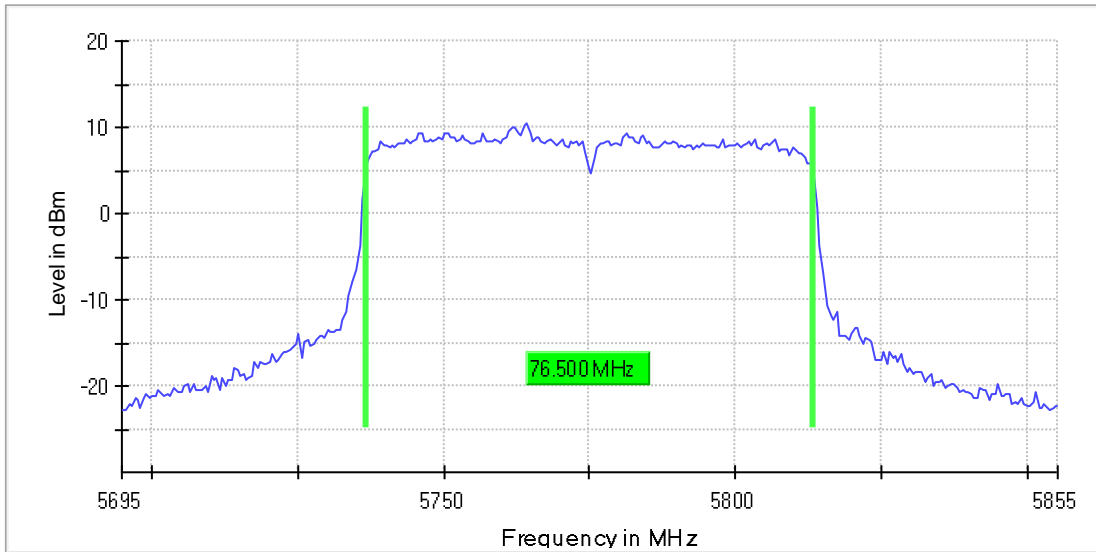
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5690.000000 | 3.22 | 0.500000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5775.000000 | 76.500000 | --- | --- | 5736.750000 | 5813.250000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.

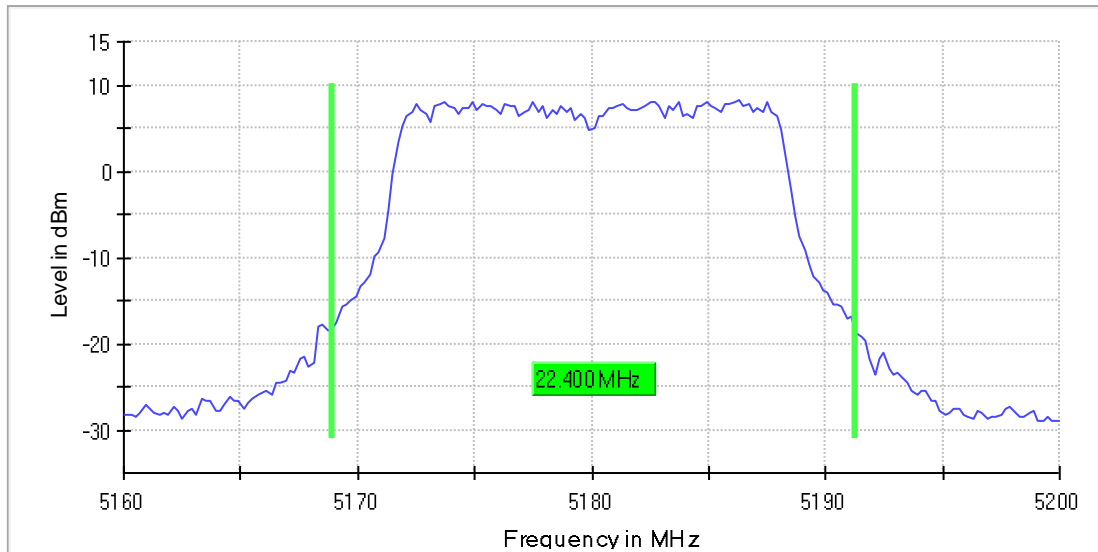


6.2.6.5. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.000000 | 22.400000 | --- | --- | 5168.900000 | 5191.300000 | 8.2 |

| (DUT Frequency (MHz)) | Result |
|-----------------------|--------|
| 5180.000000 | PASS |

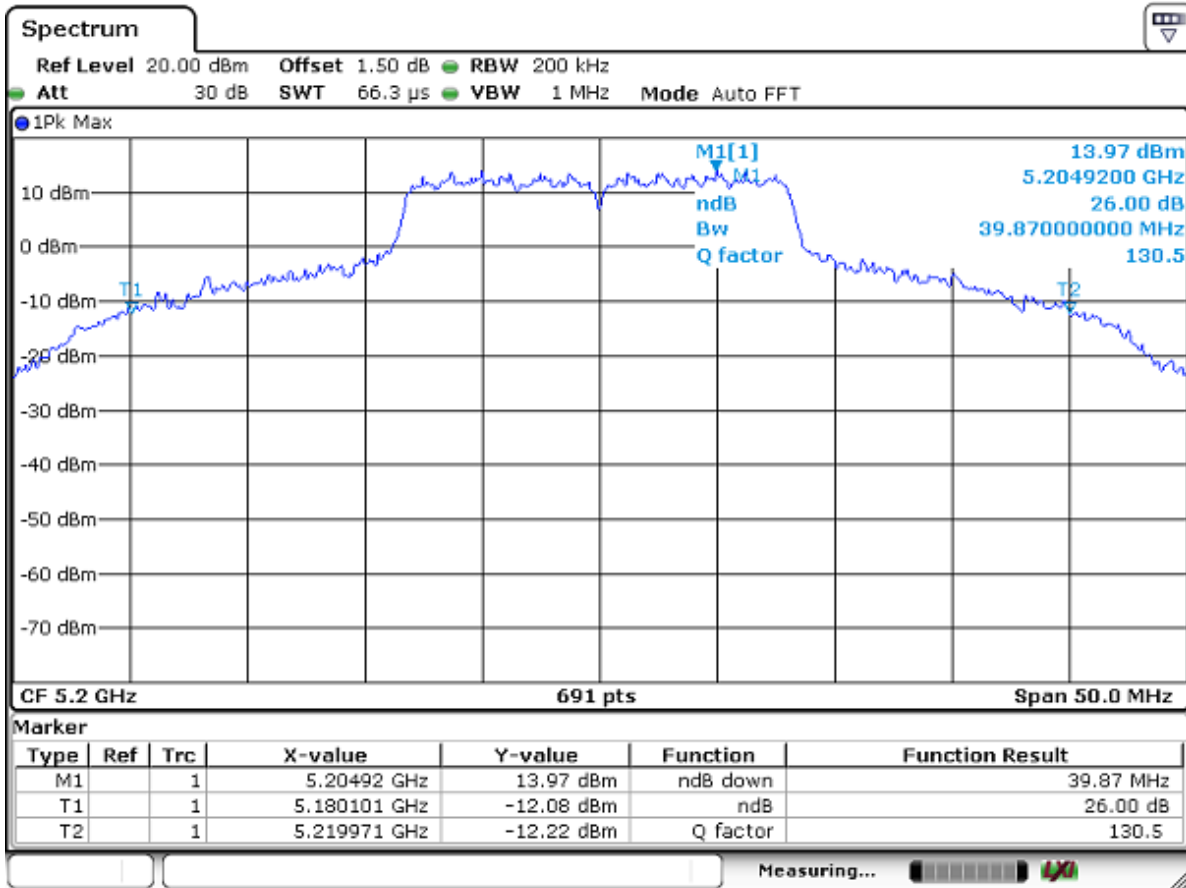


26 dB Bandwidth



| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5200.000000 | 39.87 | --- | --- | 5180.101000 | 5219.971000 | 13.97 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |



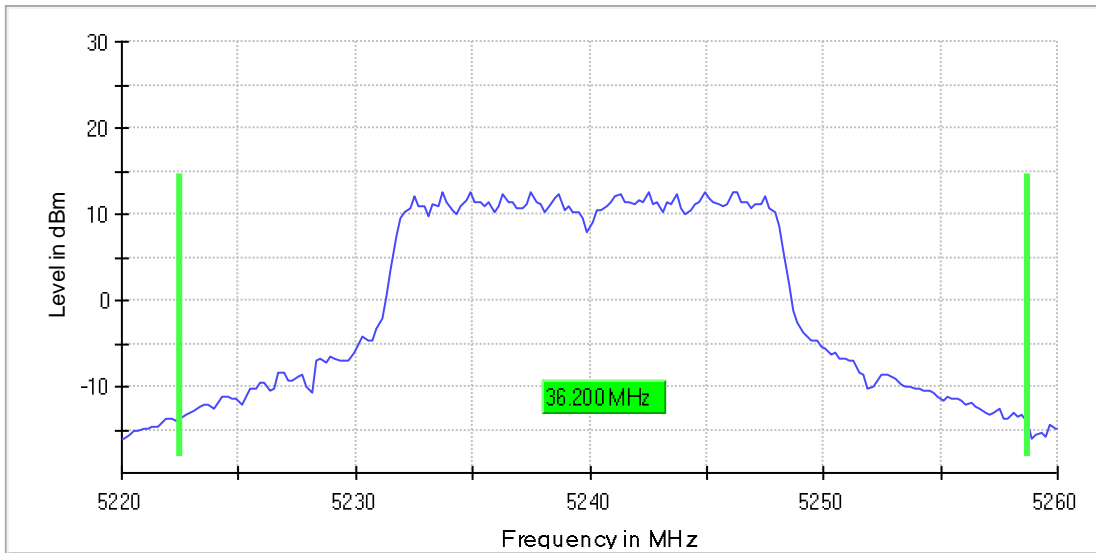
Date: 31.OCT.2018 14:23:45



26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5240.000000 | 36.200000 | --- | --- | 5222.500000 | 5258.700000 |

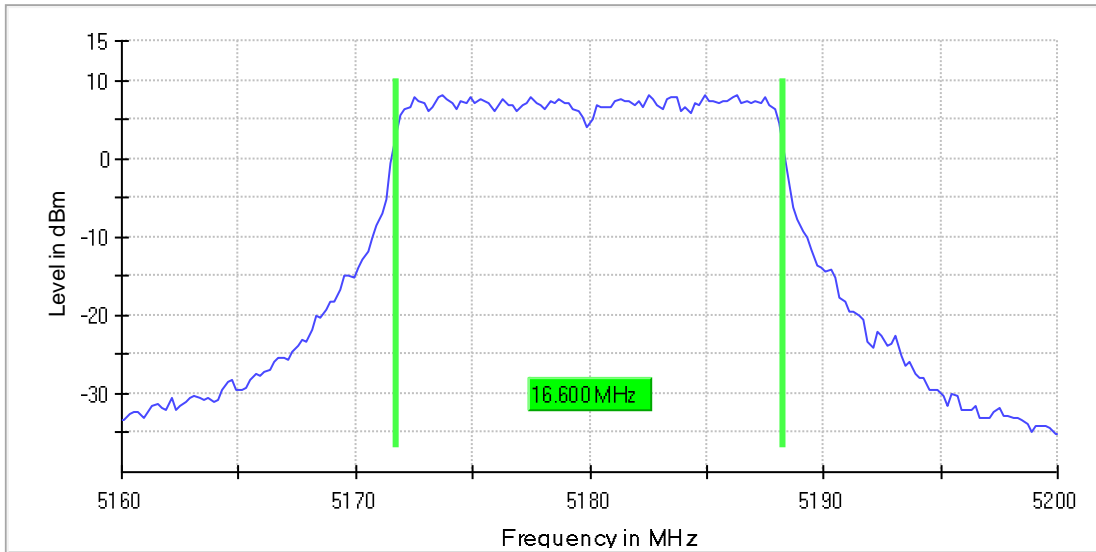
| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5240.000000 | 12.6 | PASS |





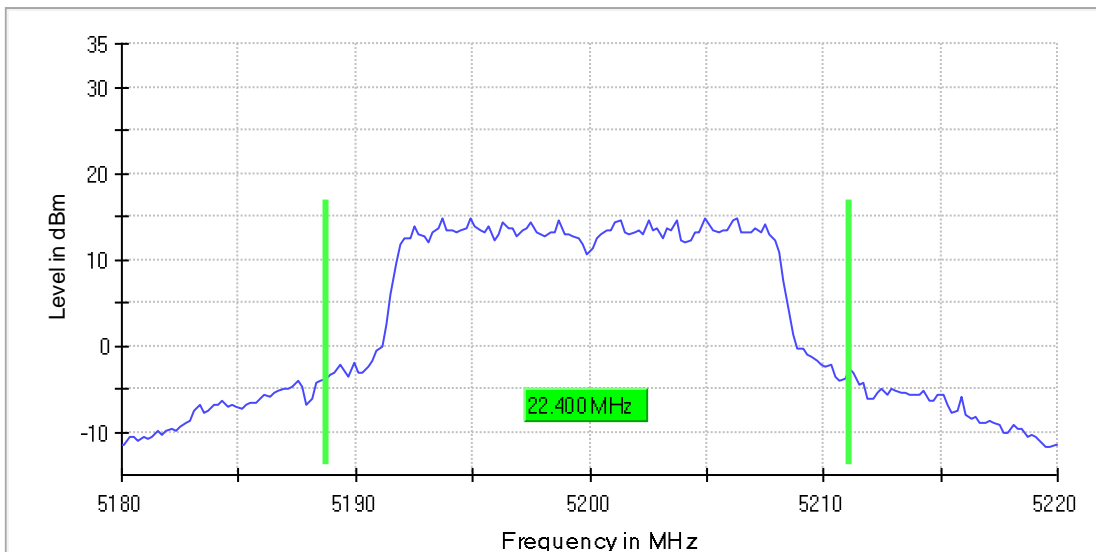
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5180.000000 | 16.600000 | --- | --- | 5171.700000 | 5188.300000 | PASS |



99 % Bandwidth

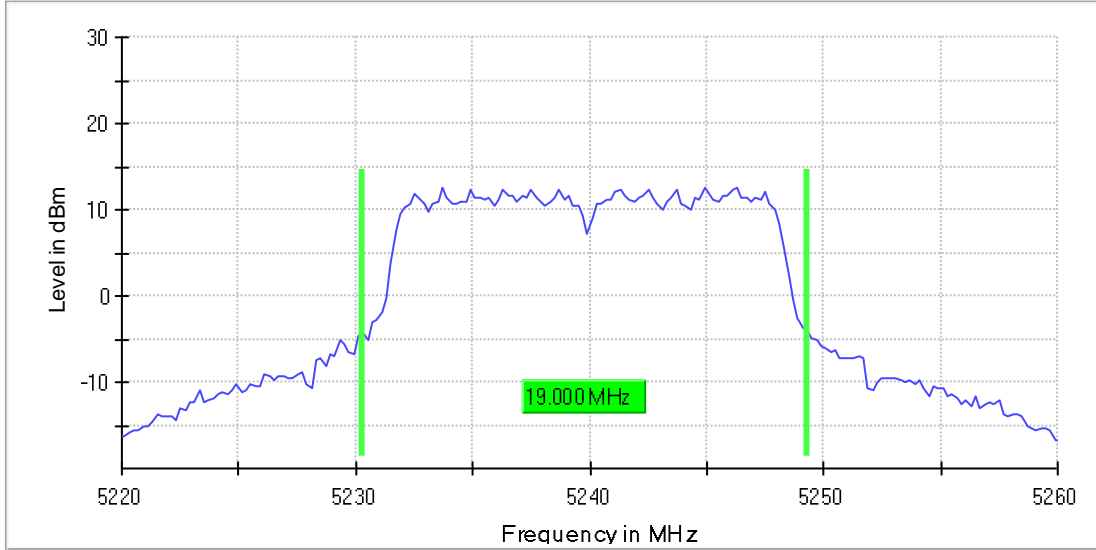
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5200.000000 | 22.400000 | --- | --- | 5188.700000 | 5211.100000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5240.000000 | 19.000000 | --- | --- | 5230.300000 | 5249.300000 | PASS |



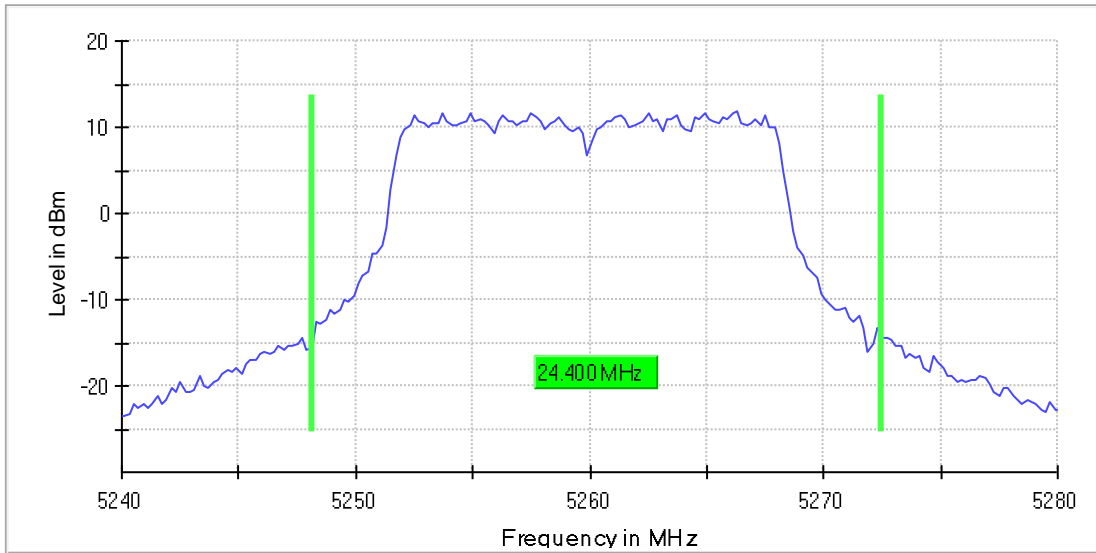


6.2.6.6. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 24.400000 | --- | --- | 5248.100000 | 5272.500000 | 11.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

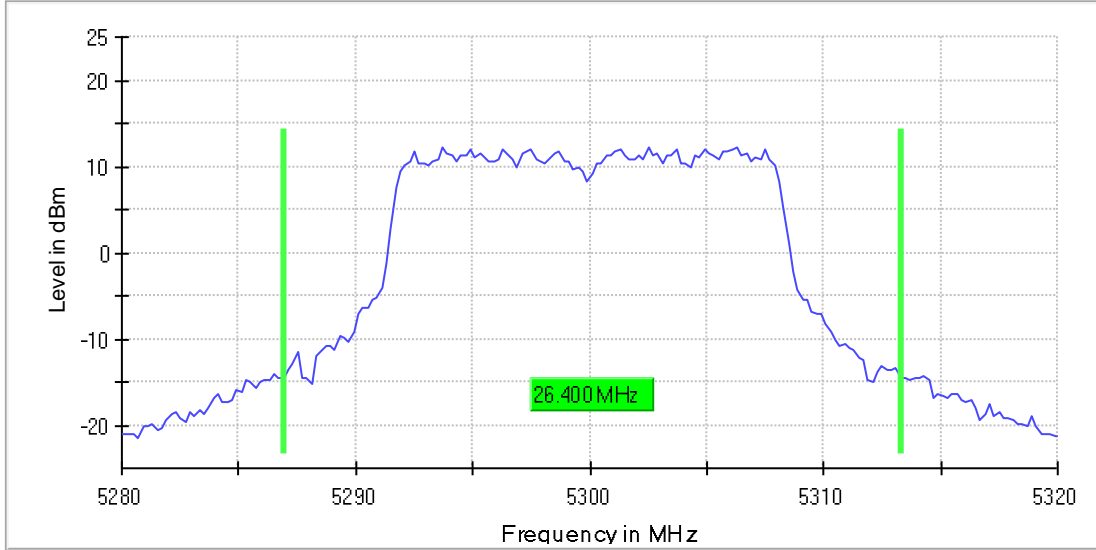




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 26.400000 | --- | --- | 5286.900000 | 5313.300000 | 12.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

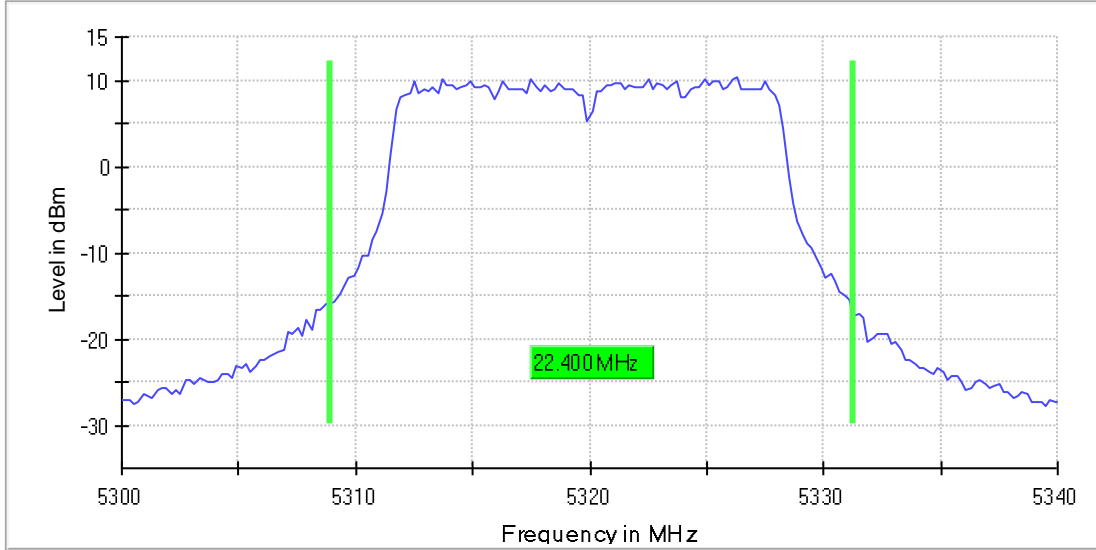




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 22.400000 | --- | --- | 5308.900000 | 5331.300000 | 10.3 |

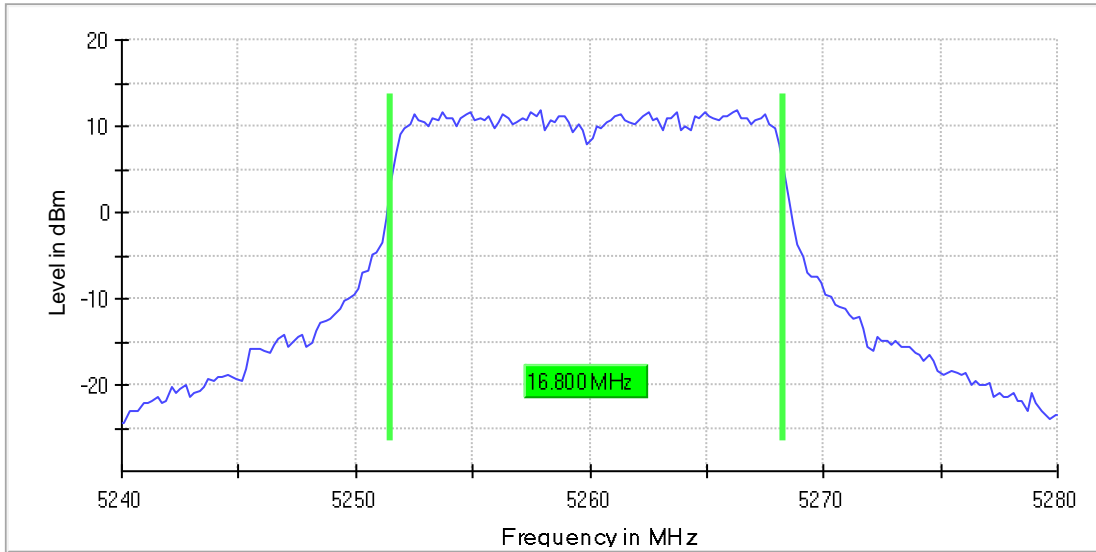
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |





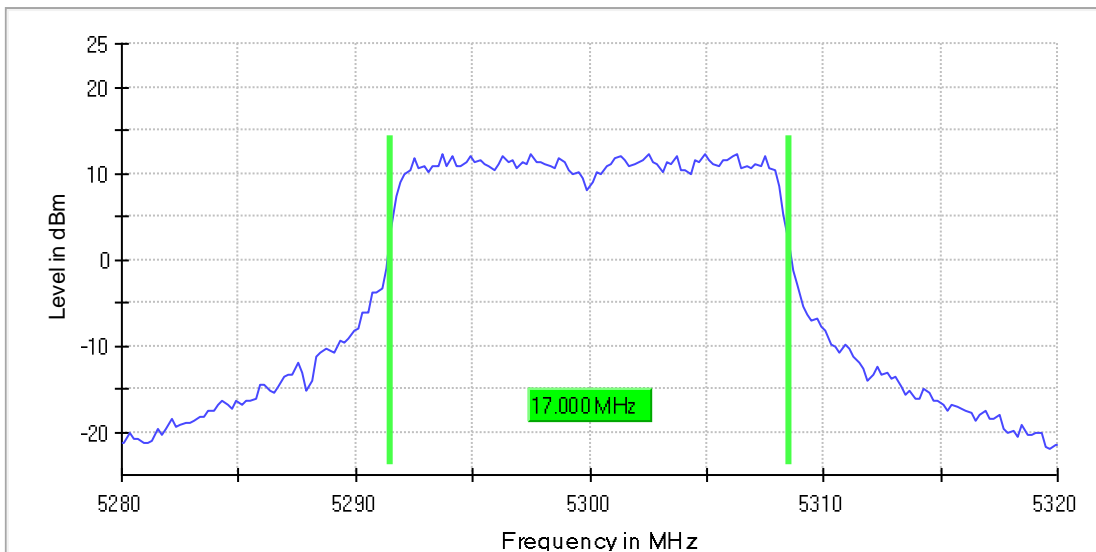
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5260.000000 | 16.800000 | --- | --- | 5251.500000 | 5268.300000 | PASS |



99 % Bandwidth

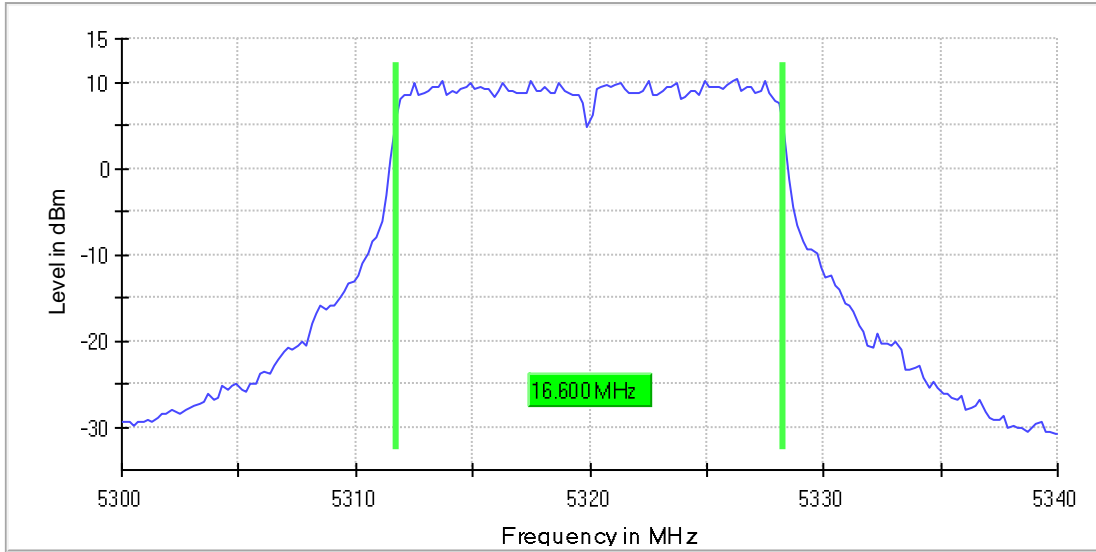
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5300.000000 | 17.000000 | --- | --- | 5291.500000 | 5308.500000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5320.000000 | 16.600000 | --- | --- | 5311.700000 | 5328.300000 | PASS |



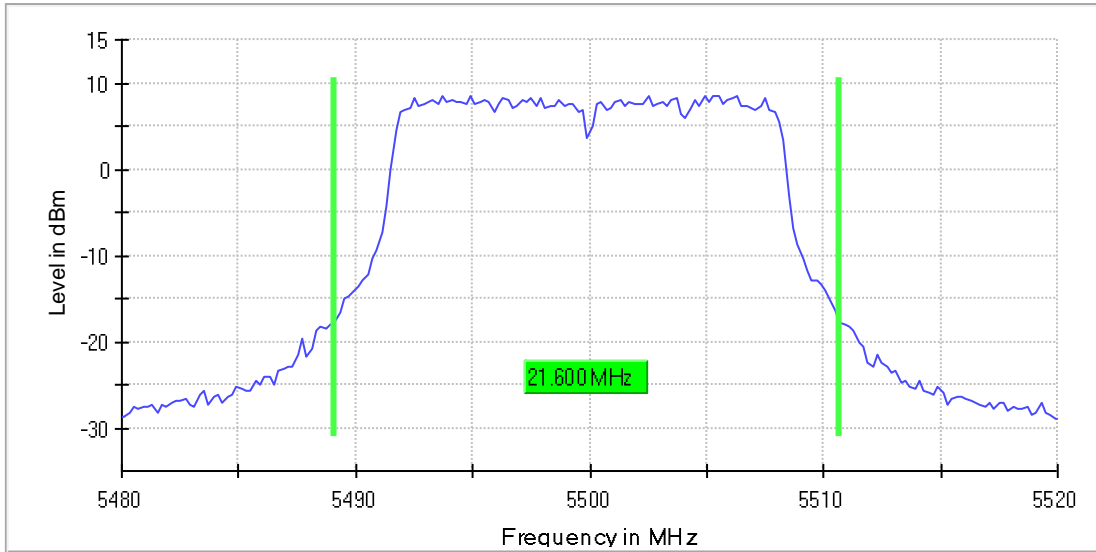


6.2.6.7. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 21.600000 | --- | --- | 5489.100000 | 5510.700000 | 8.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

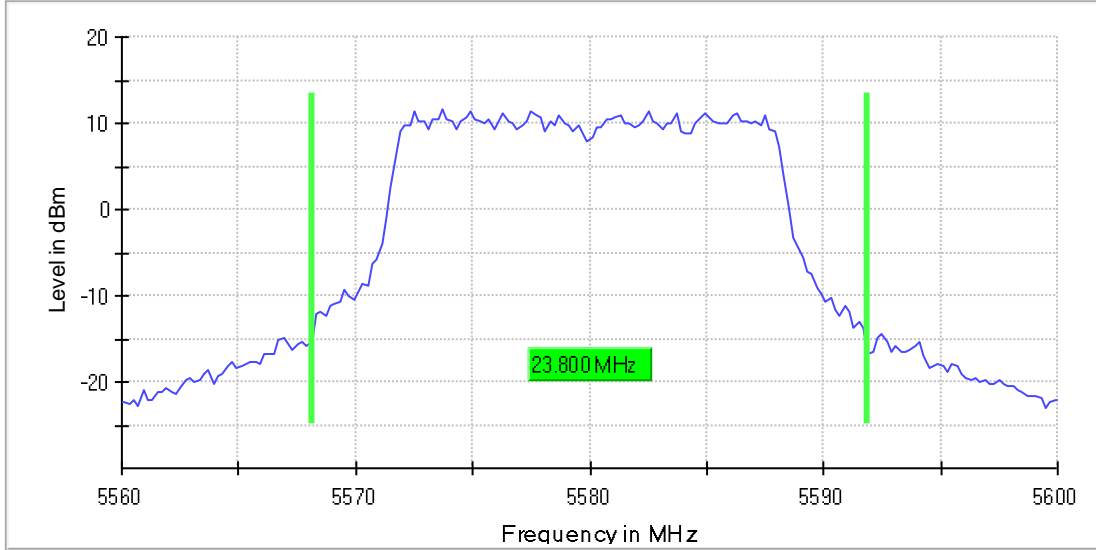




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 23.800000 | --- | --- | 5568.100000 | 5591.900000 | 11.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

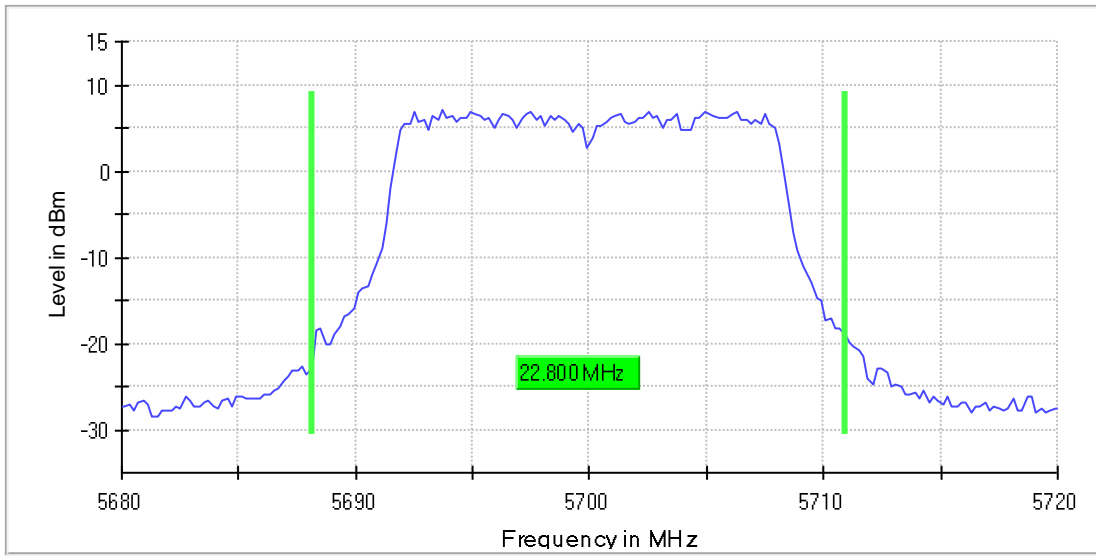




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 22.800000 | --- | --- | 5688.100000 | 5710.900000 | 7.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

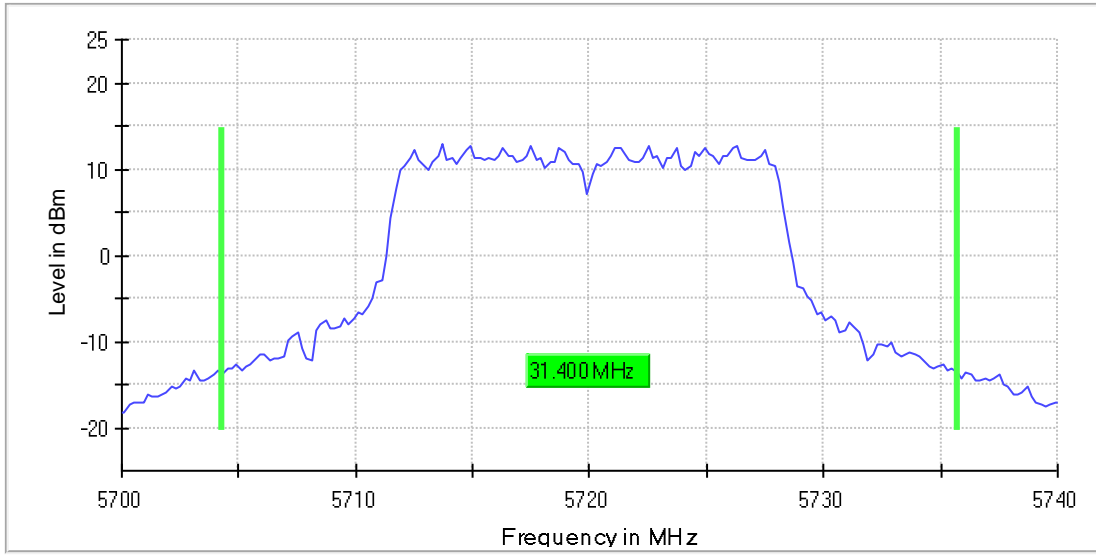




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5720.000000 | 31.400000 | --- | --- | 5704.300000 | 5735.700000 | 12.8 |

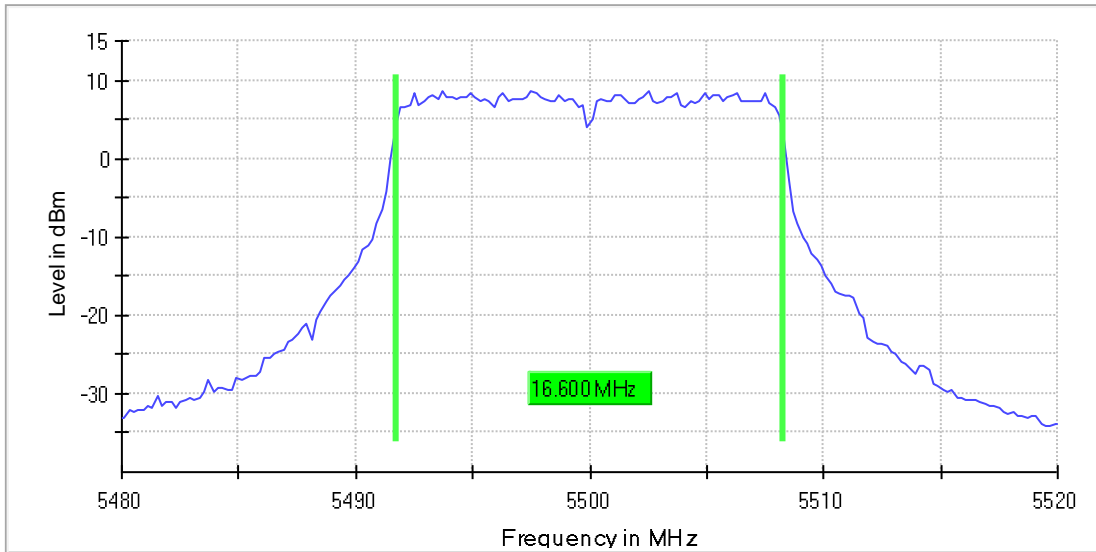
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |





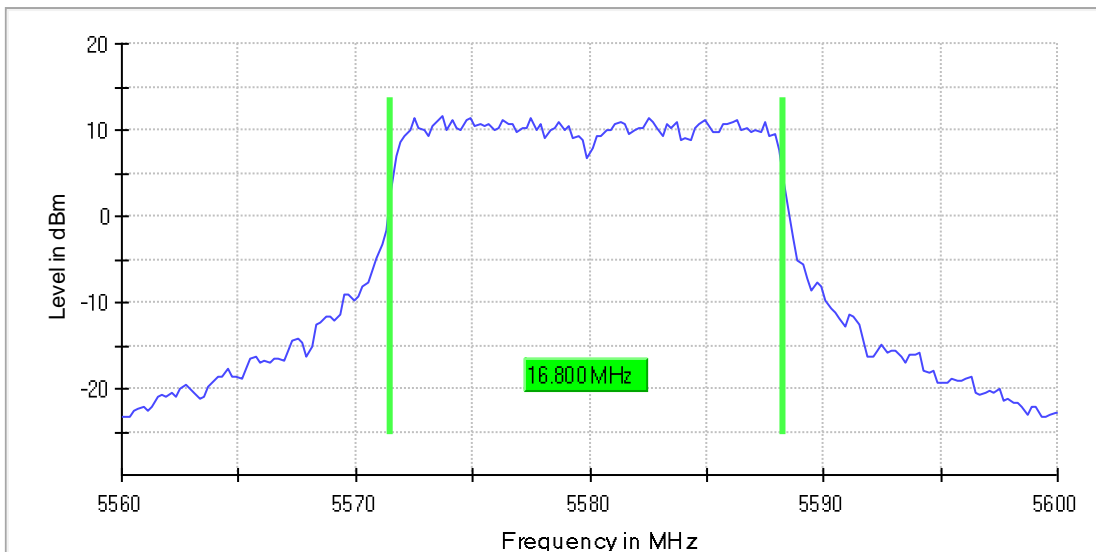
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5500.000000 | 16.600000 | --- | --- | 5491.700000 | 5508.300000 | PASS |



99 % Bandwidth

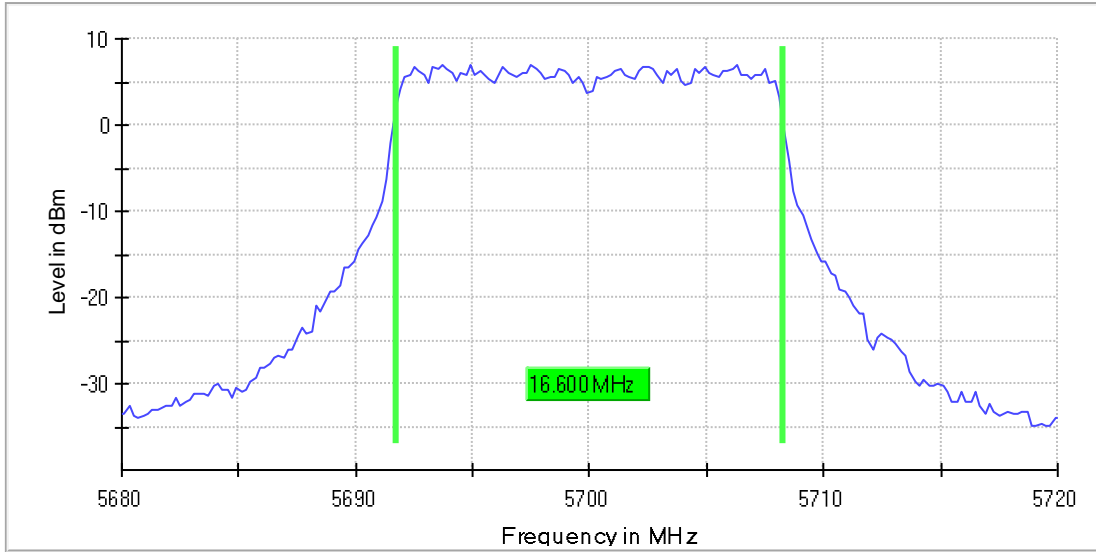
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5580.000000 | 16.800000 | --- | --- | 5571.500000 | 5588.300000 | PASS |





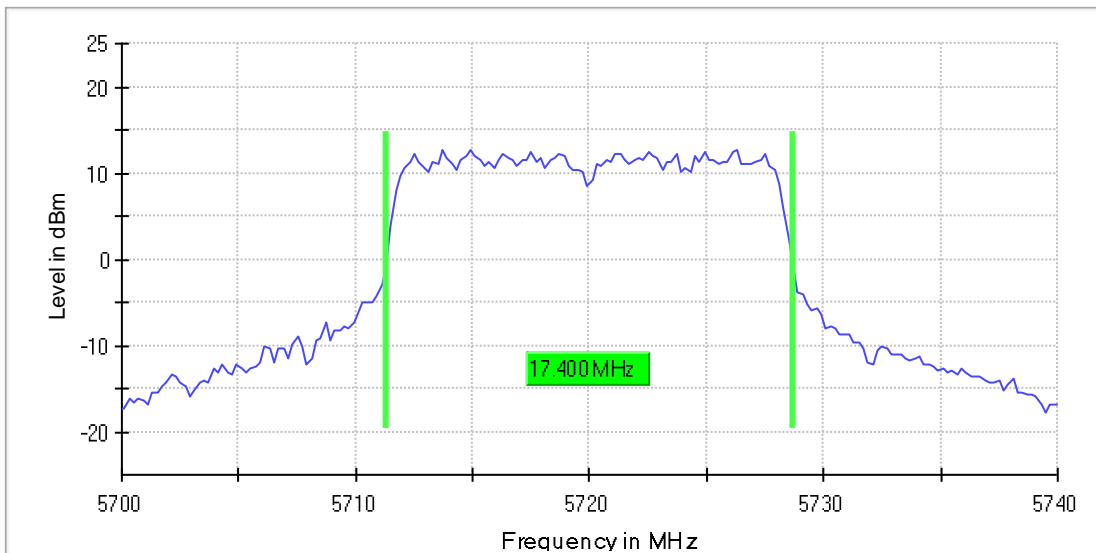
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5700.000000 | 16.600000 | --- | --- | 5691.700000 | 5708.300000 | PASS |



99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5720.000000 | 17.400000 | --- | --- | 5711.300000 | 5728.700000 | PASS |



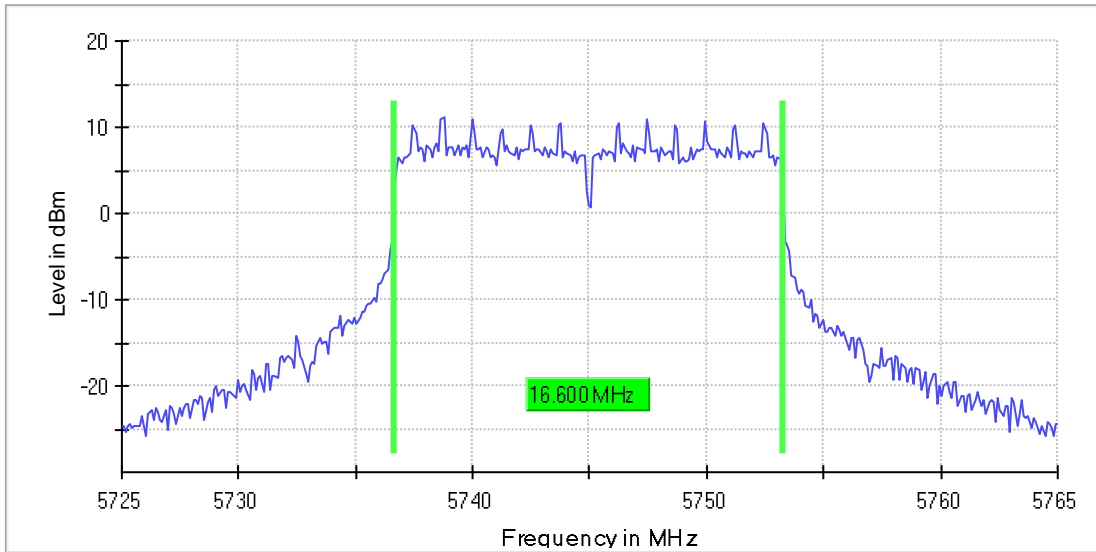


6.2.6.8. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 16.600000 | 0.500000 | --- | 5736.650000 | 5753.250000 | 11.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

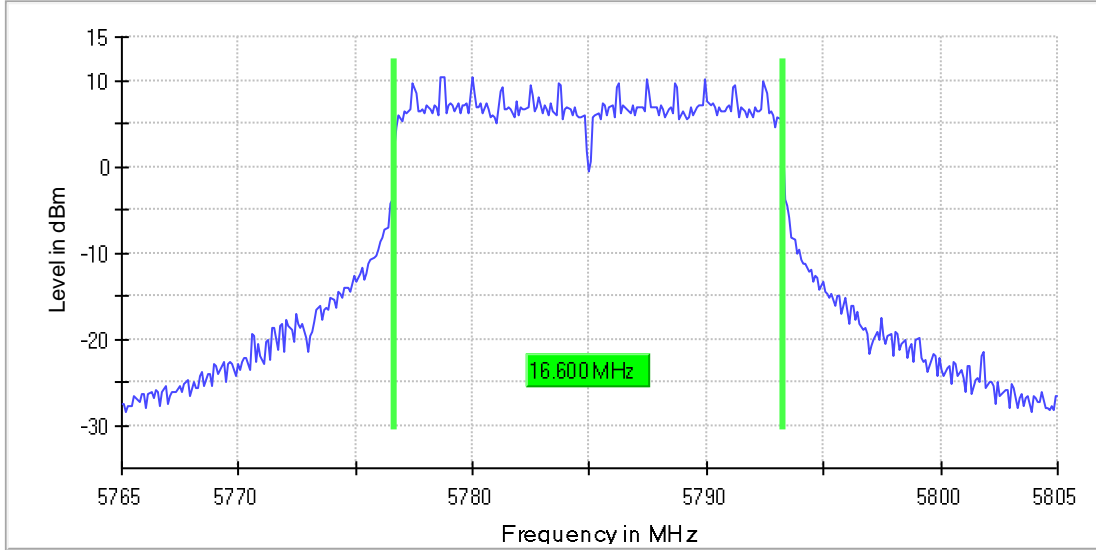




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 16.600000 | 0.500000 | --- | 5776.650000 | 5793.250000 | 10.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

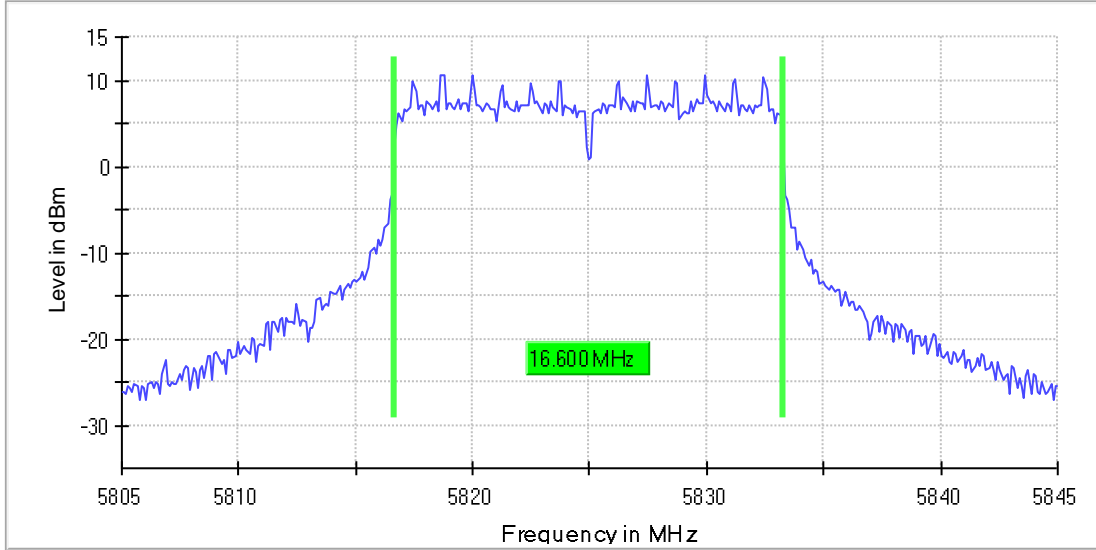




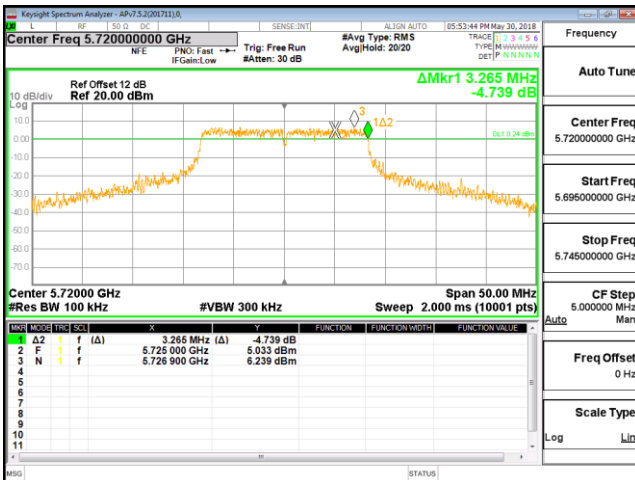
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 16.600000 | 0.500000 | --- | 5816.650000 | 5833.250000 | 10.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



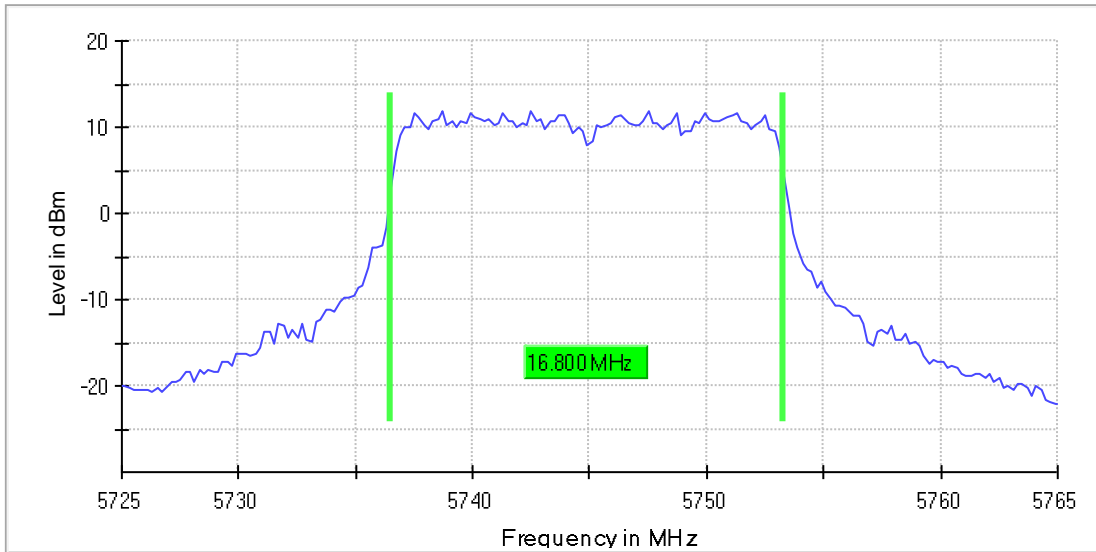
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.265 | 0.500000 | PASS |





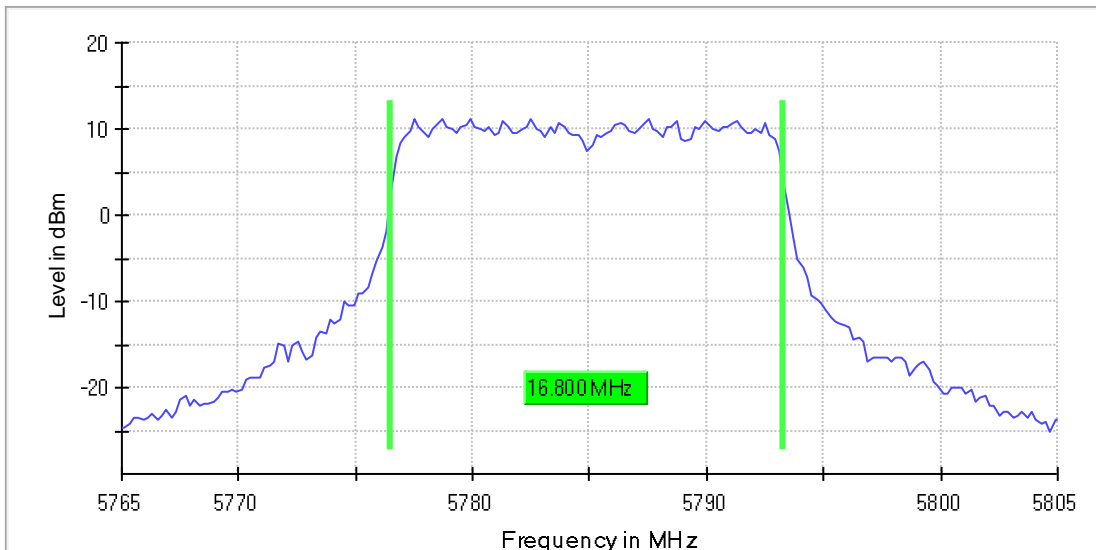
99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5745.000000 | 16.800000 | --- | --- | 5736.500000 | 5753.300000 | PASS |



99 % Bandwidth

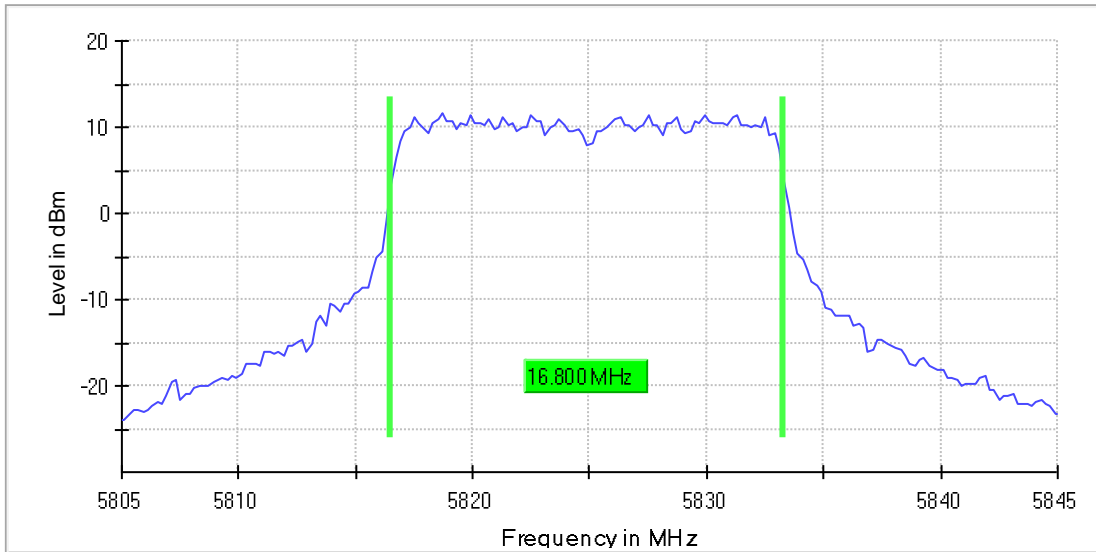
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5785.000000 | 16.800000 | --- | --- | 5776.500000 | 5793.300000 | PASS |





99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------|
| 5825.00000 | 16.80000 | --- | --- | 5816.50000 | 5833.30000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



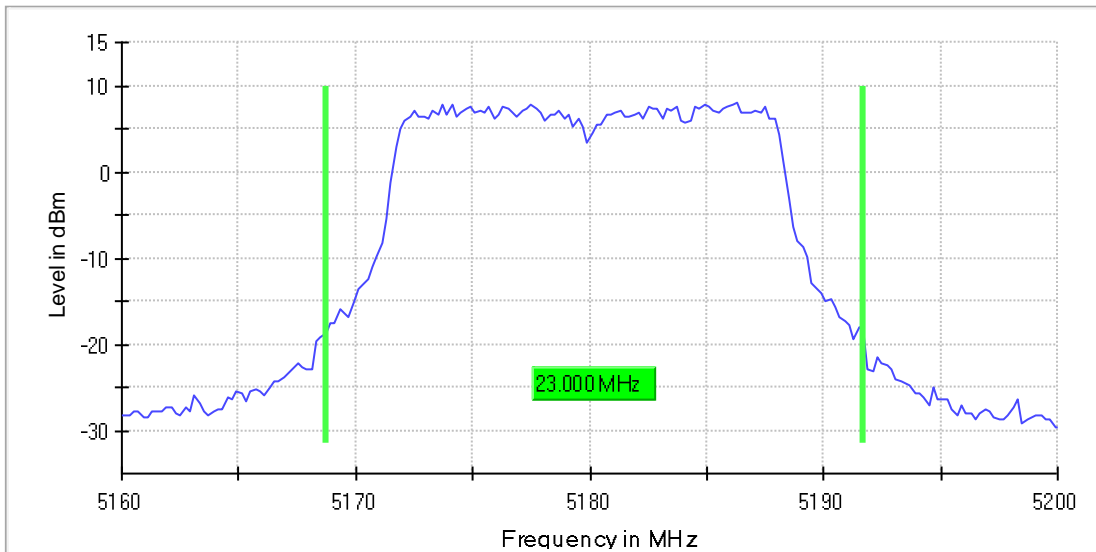
6.2.7. 802.11a MIMO MODE

6.2.7.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.000000 | 23.000000 | --- | --- | 5168.700000 | 5191.700000 | 8.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5180.000000 | PASS |

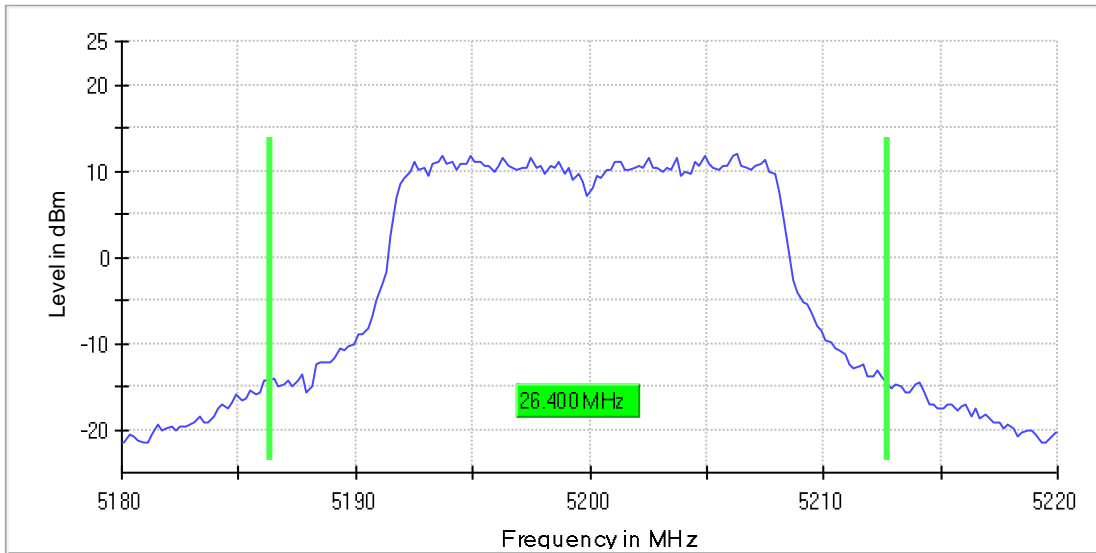




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5200.000000 | 26.400000 | --- | --- | 5186.300000 | 5212.700000 | 11.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |



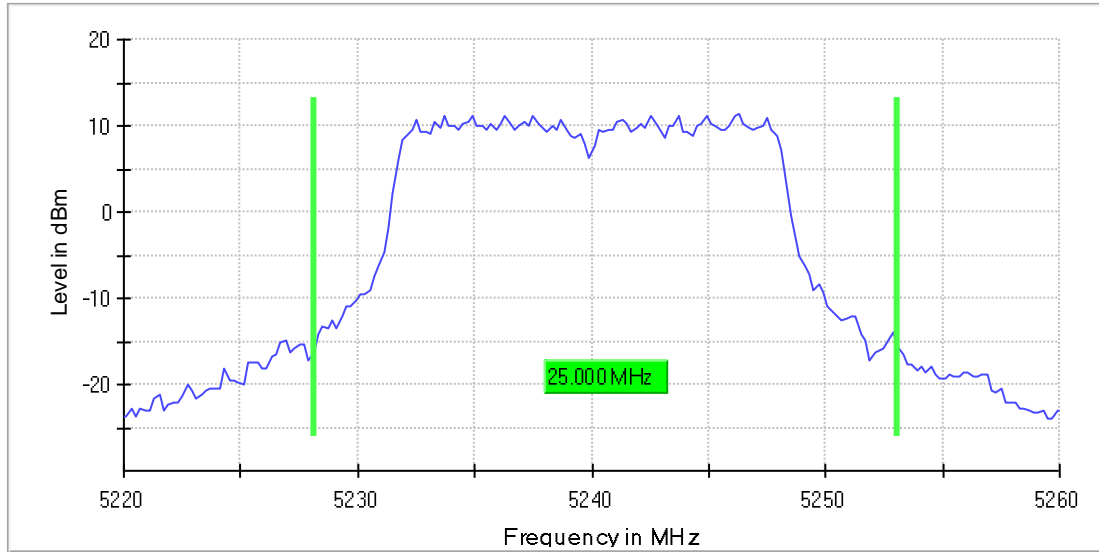


26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5240.000000 | 25.000000 | --- | --- | 5228.100000 | 5253.100000 | 11.3 |

(

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5240.000000 | PASS |



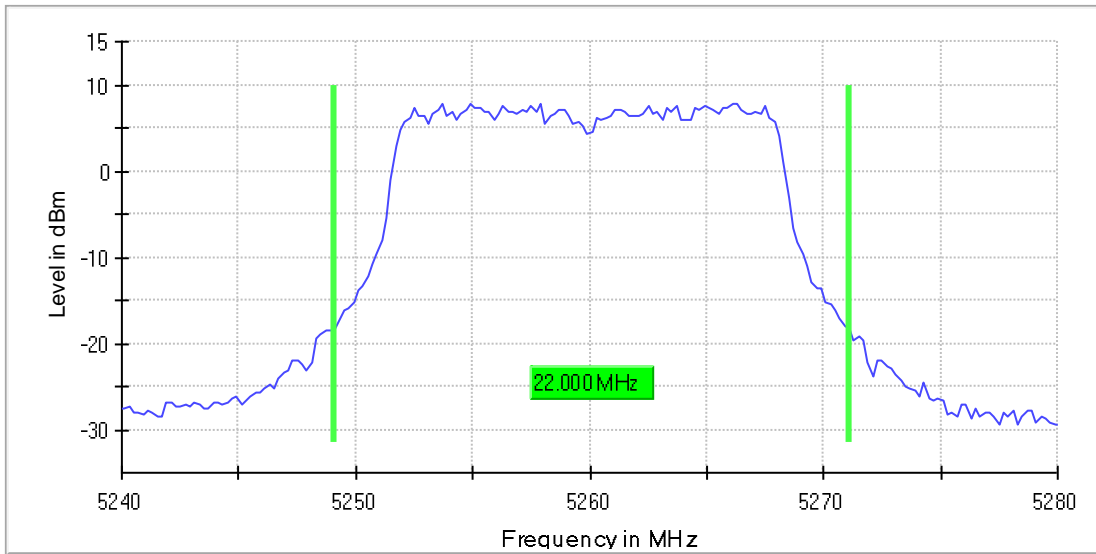


6.2.7.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 22.000000 | --- | --- | 5249.100000 | 5271.100000 | 7.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

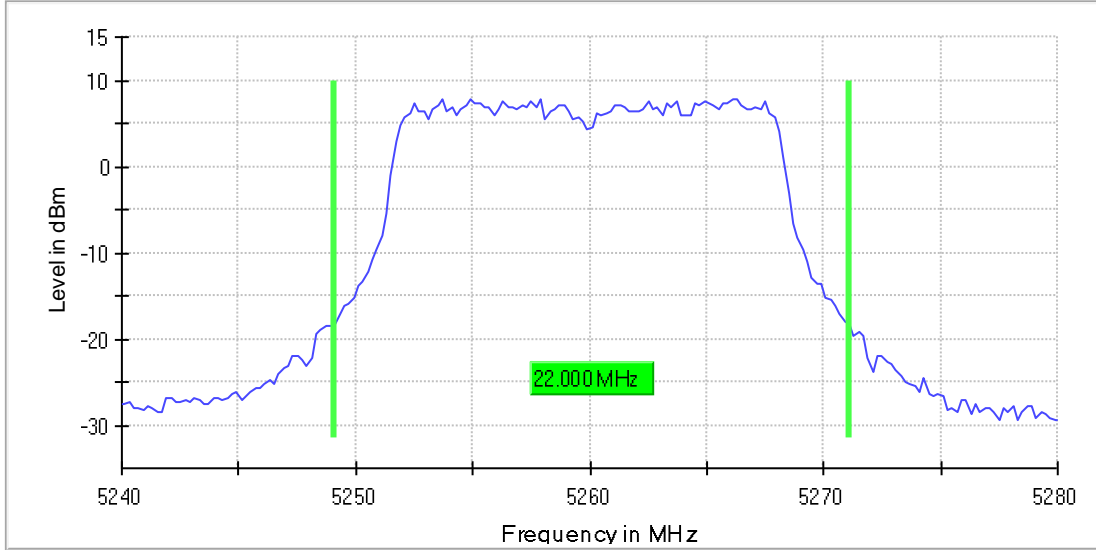




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 22.600000 | --- | --- | 5288.700000 | 5311.300000 | 7.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

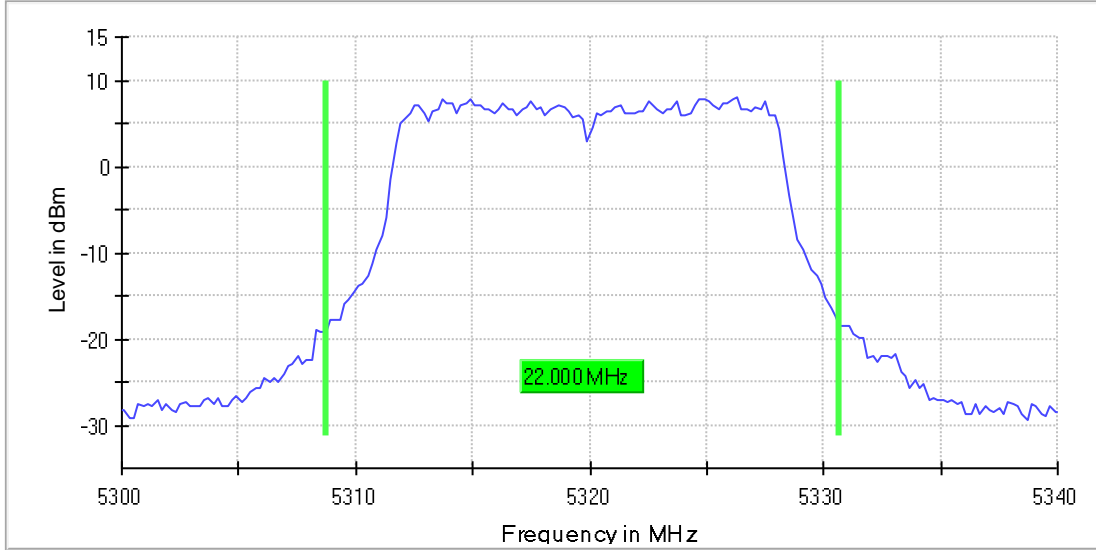




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 22.000000 | --- | --- | 5308.700000 | 5330.700000 | 7.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |



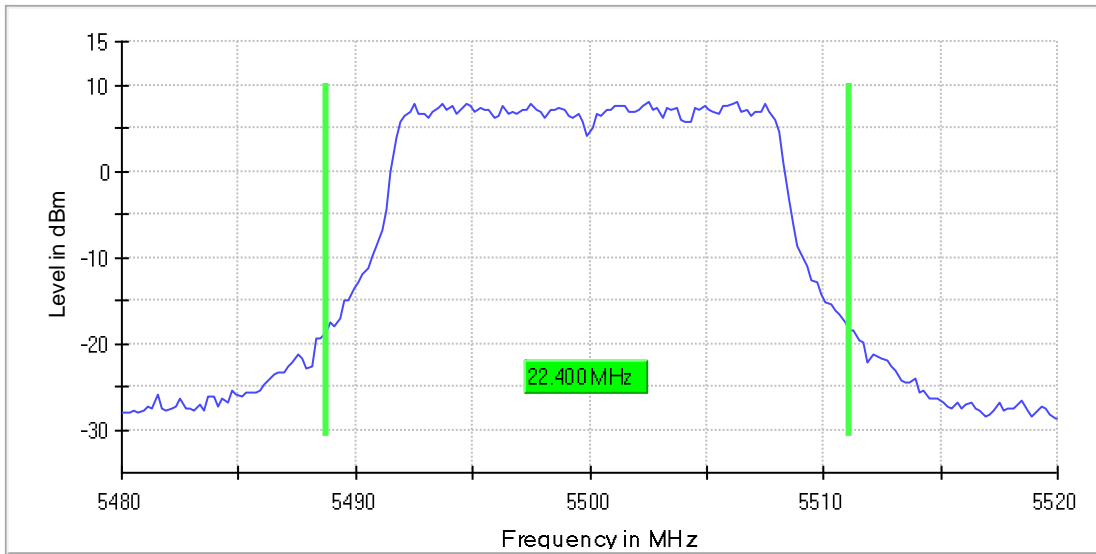


6.2.7.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 22.400000 | --- | --- | 5488.700000 | 5511.100000 | 8.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

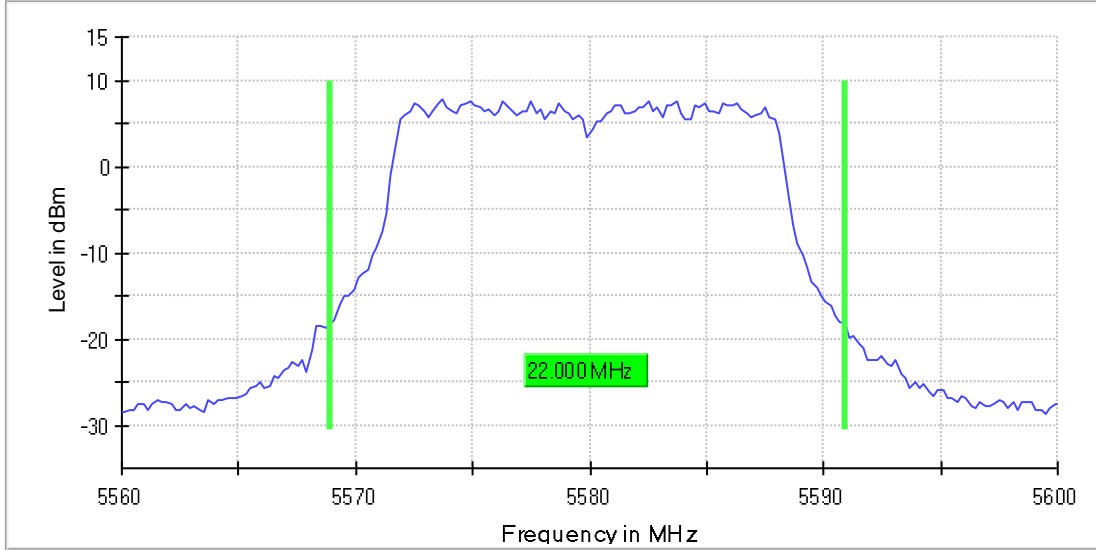




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 22.000000 | --- | --- | 5568.900000 | 5590.900000 | 7.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

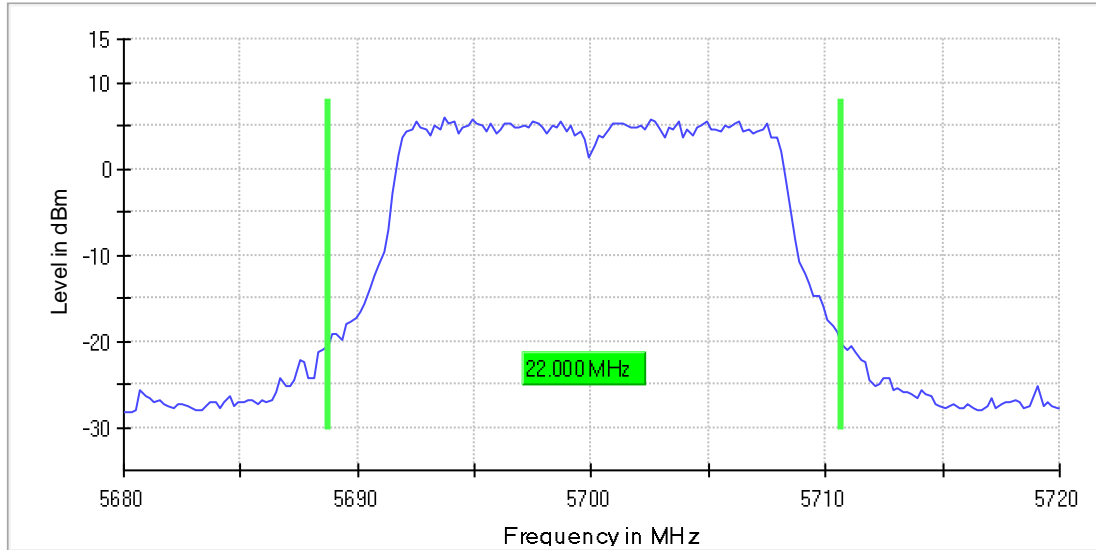




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 22.000000 | --- | --- | 5688.700000 | 5710.700000 | 5.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

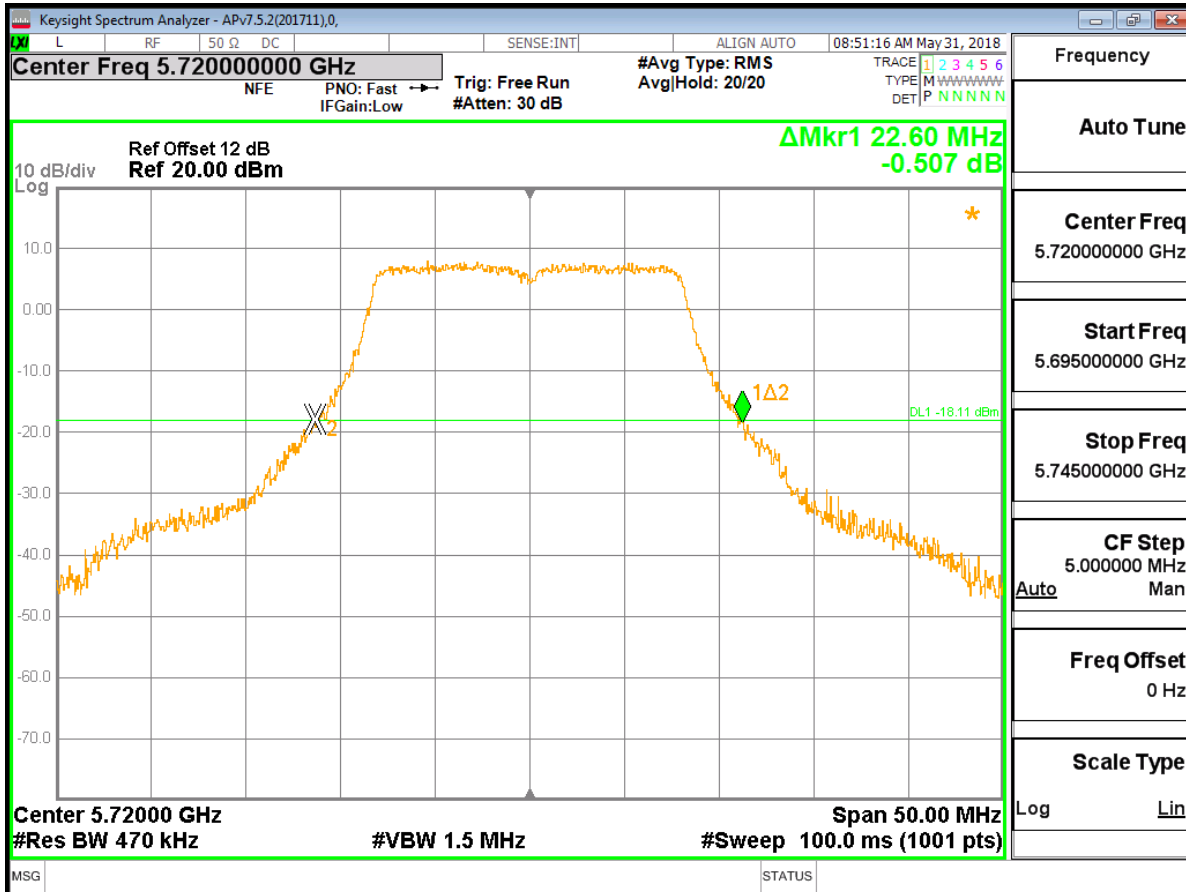




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5720.000000 | 22.600 | --- | --- |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |



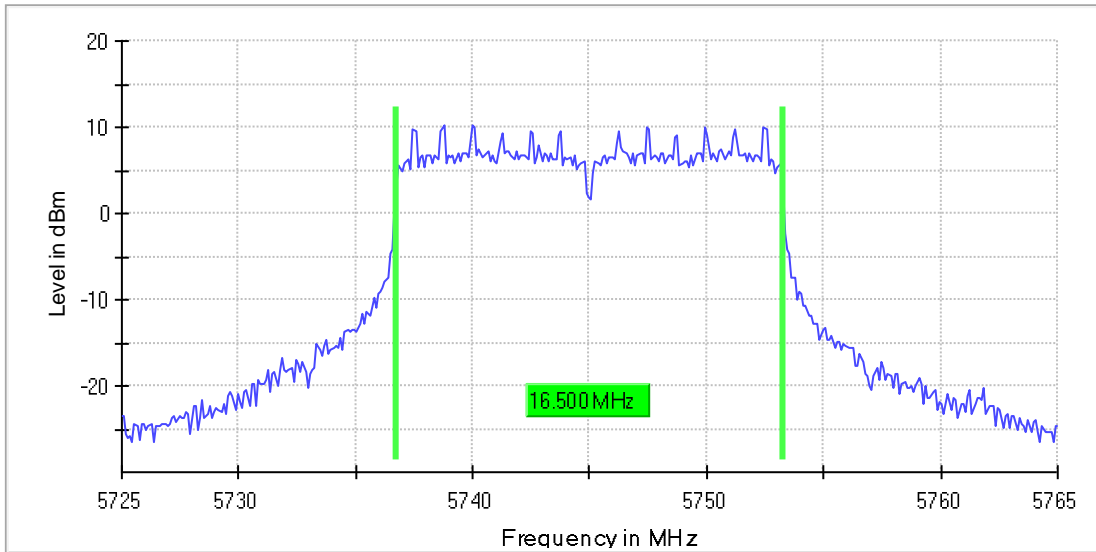


6.2.7.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 16.500000 | 0.500000 | --- | 5736.750000 | 5753.250000 | 10.3 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

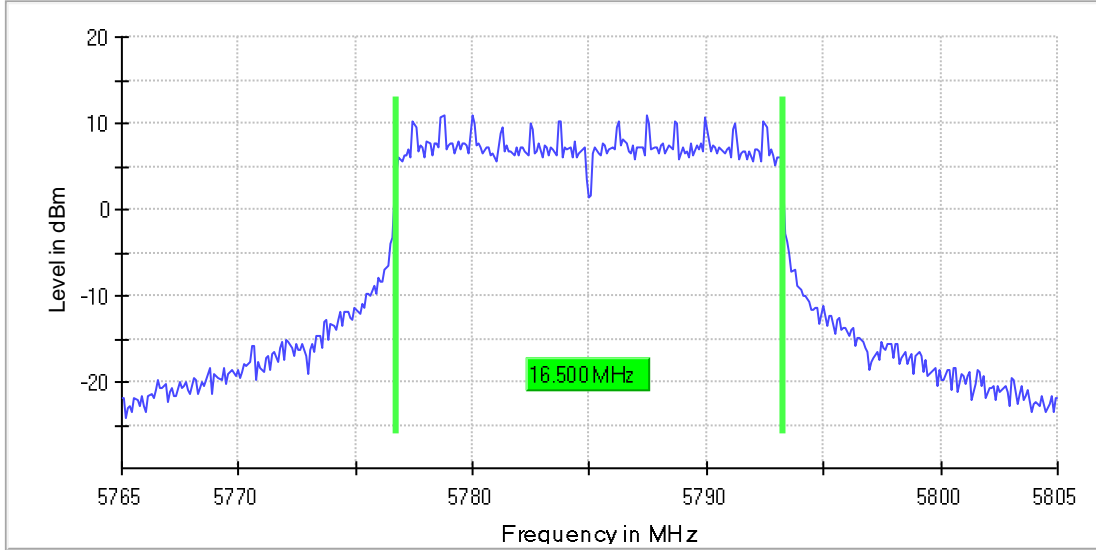




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 16.500000 | 0.500000 | --- | 5776.750000 | 5793.250000 | 11.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

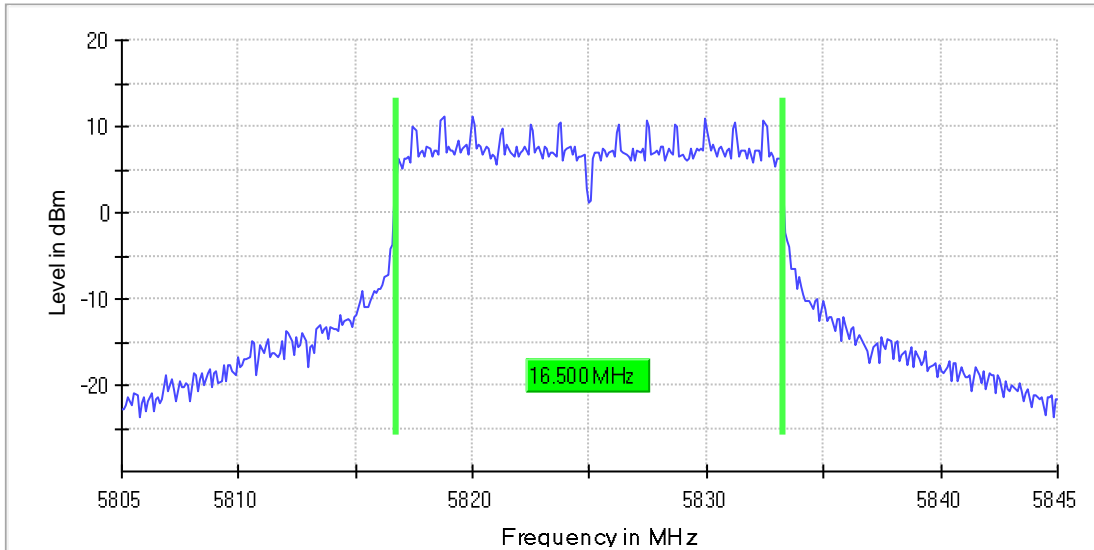




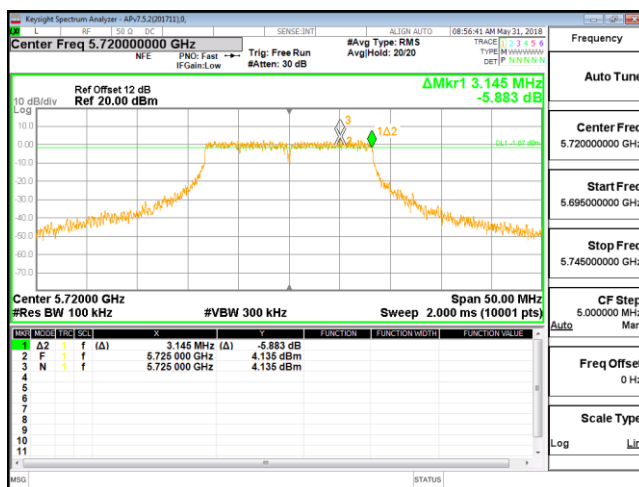
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 16.500000 | 0.500000 | --- | 5816.750000 | 5833.250000 | 11.2 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.145 | 0.500000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the repo



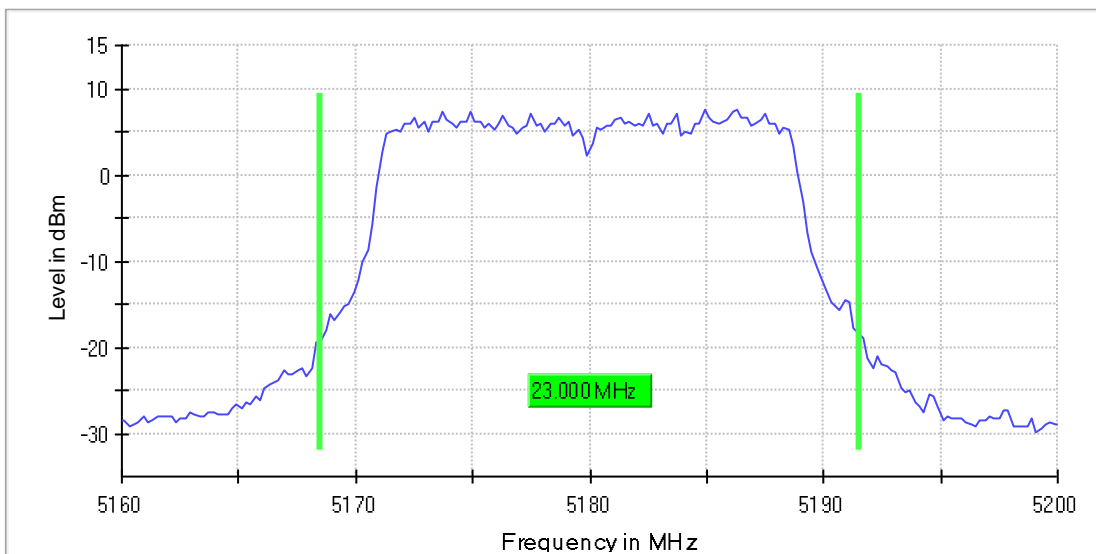
6.2.8. 802.11n HT20 MIMO MODE

6.2.8.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5180.000000 | 23.000000 | --- | --- | 5168.500000 | 5191.500000 | 7.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5180.000000 | PASS |

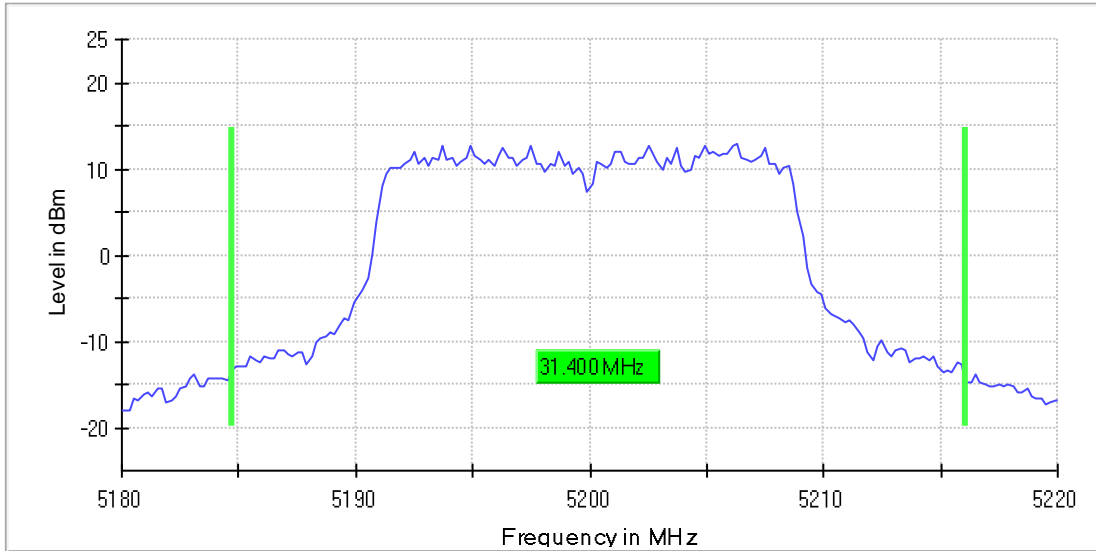




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5200.000000 | 31.400000 | --- | --- | 5184.700000 | 5216.100000 | 12.8 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5200.000000 | PASS |

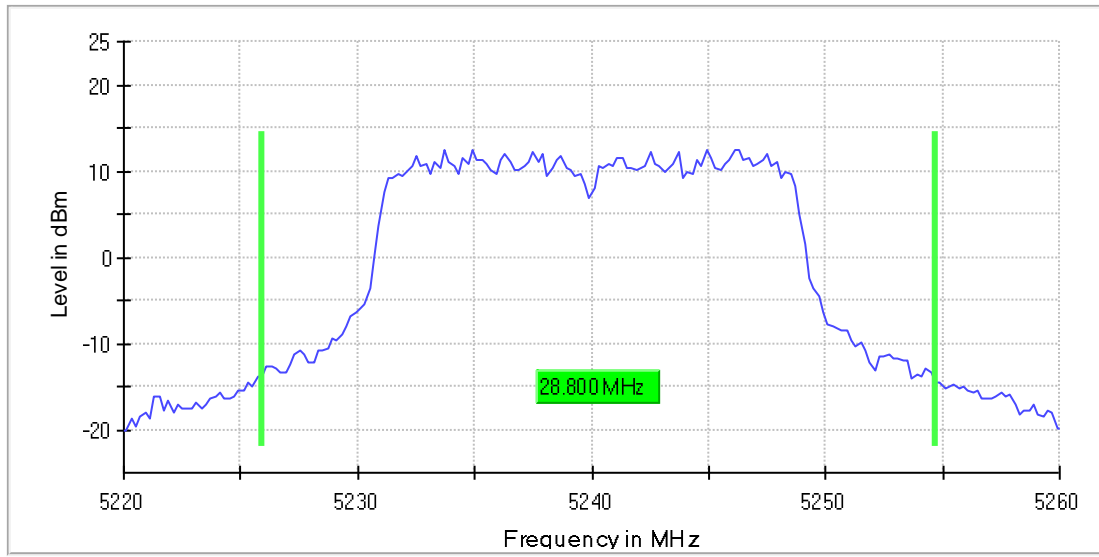




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5240.000000 | 28.800000 | --- | --- | 5225.900000 | 5254.700000 | 12.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5240.000000 | PASS |



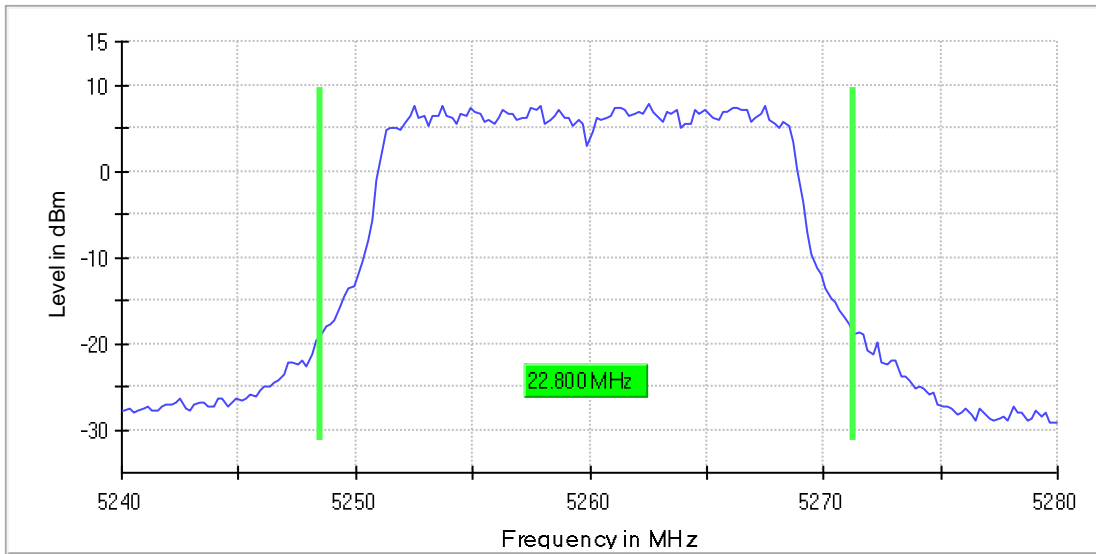


6.2.8.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5260.000000 | 22.800000 | --- | --- | 5248.500000 | 5271.300000 | 7.7 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000 | PASS |

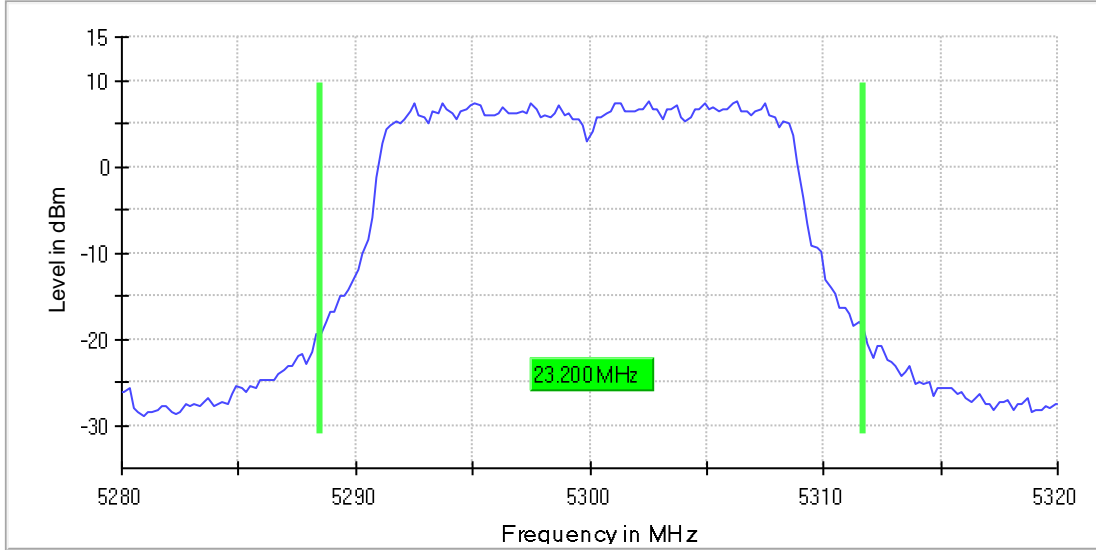




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5300.000000 | 23.200000 | --- | --- | 5288.500000 | 5311.700000 | 7.7 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5300.000000 | PASS |

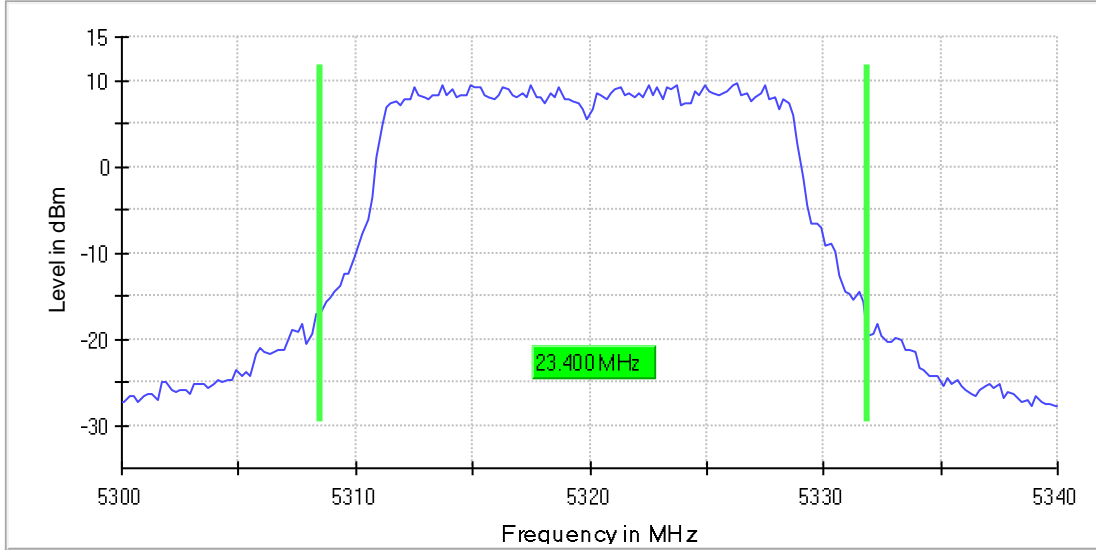




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5320.000000 | 23.400000 | --- | --- | 5308.100000 | 5331.500000 | 8.1 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000 | PASS |



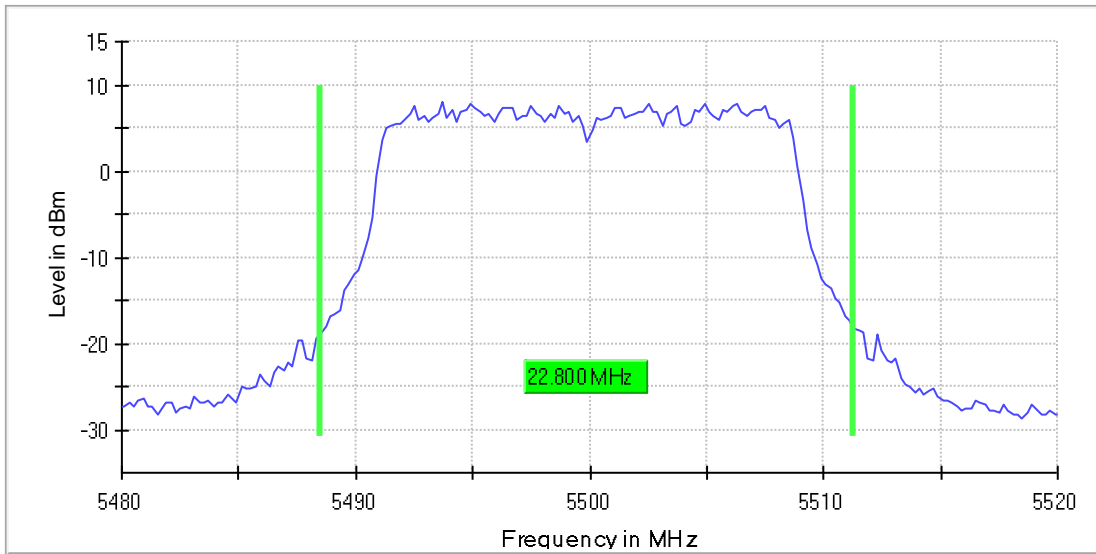


6.2.8.3. UNII-2C BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5500.000000 | 22.800000 | --- | --- | 5488.500000 | 5511.300000 | 8.0 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000 | PASS |

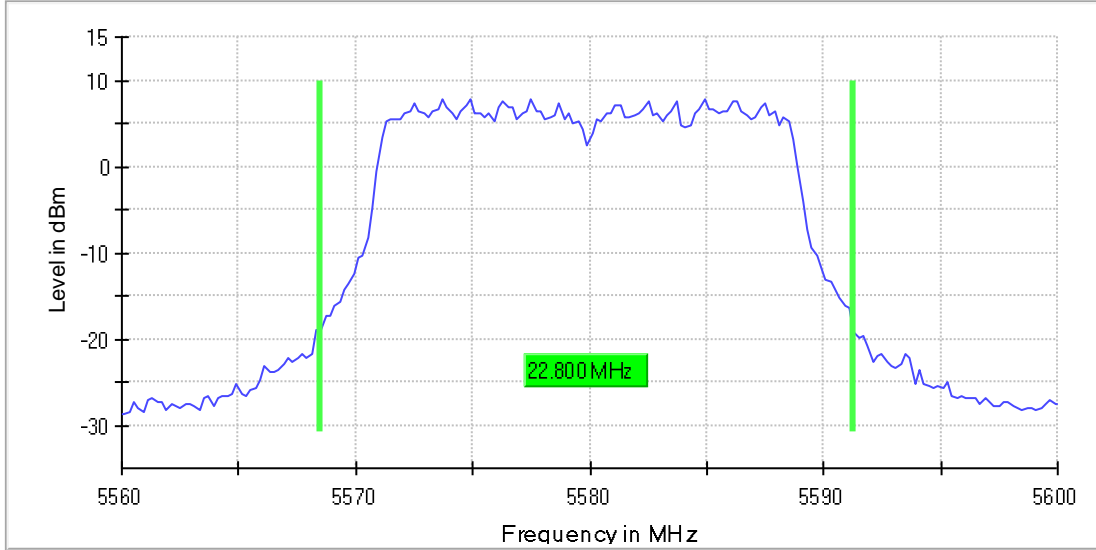




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5580.000000 | 22.800000 | --- | --- | 5568.500000 | 5591.300000 | 7.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5580.000000 | PASS |

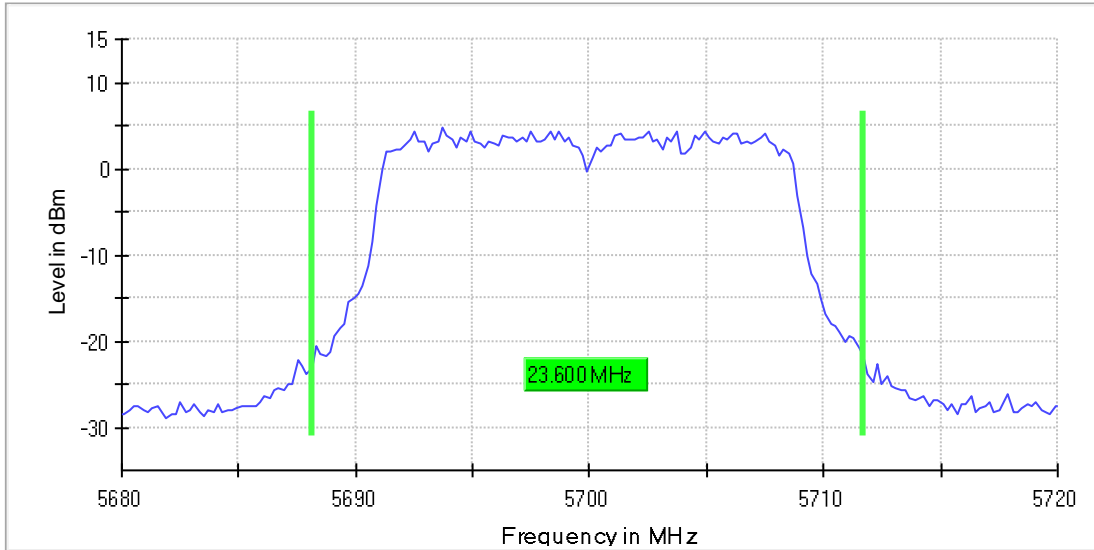




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5700.000000 | 23.600000 | --- | --- | 5688.100000 | 5711.700000 | 4.7 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5700.000000 | PASS |

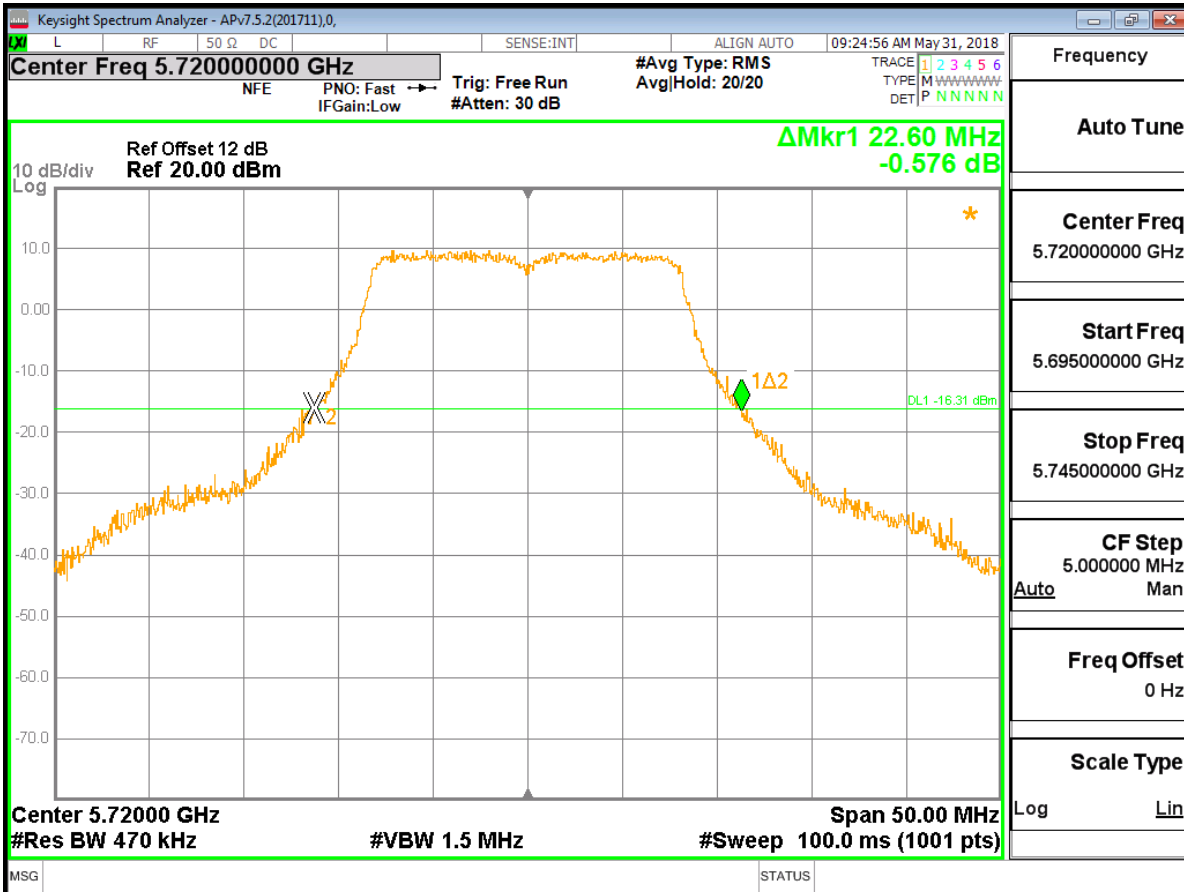




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-----------------|-----------------|
| 5720.000000 | 22.600 | --- | --- |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5720.000000 | PASS |



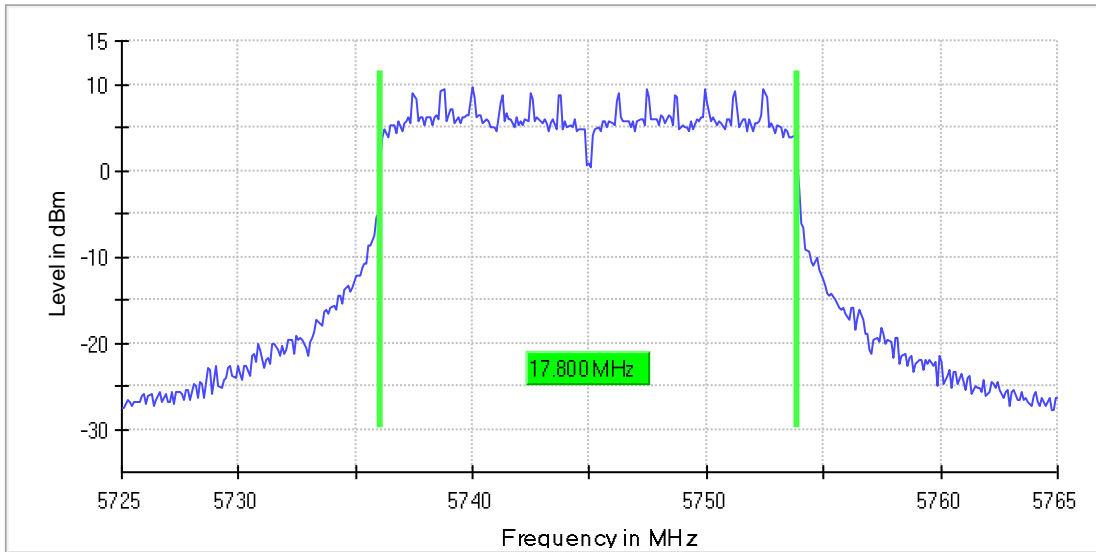


6.2.8.4. UNII-3 BAND

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5745.000000 | 17.800000 | 0.500000 | --- | 5736.050000 | 5753.850000 | 9.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000 | PASS |

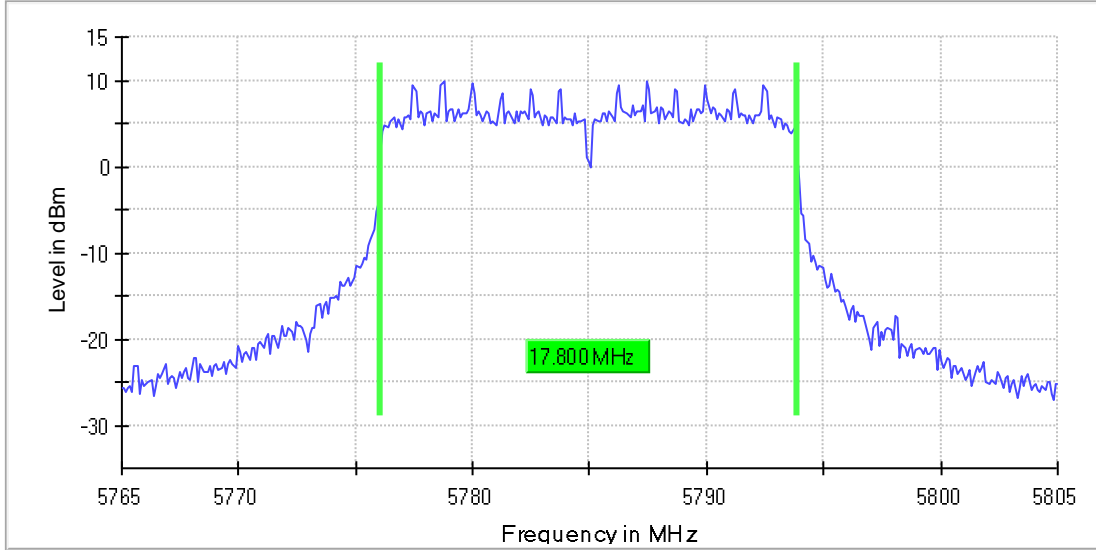




6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5785.000000 | 17.800000 | 0.500000 | --- | 5776.050000 | 5793.850000 | 9.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5785.000000 | PASS |

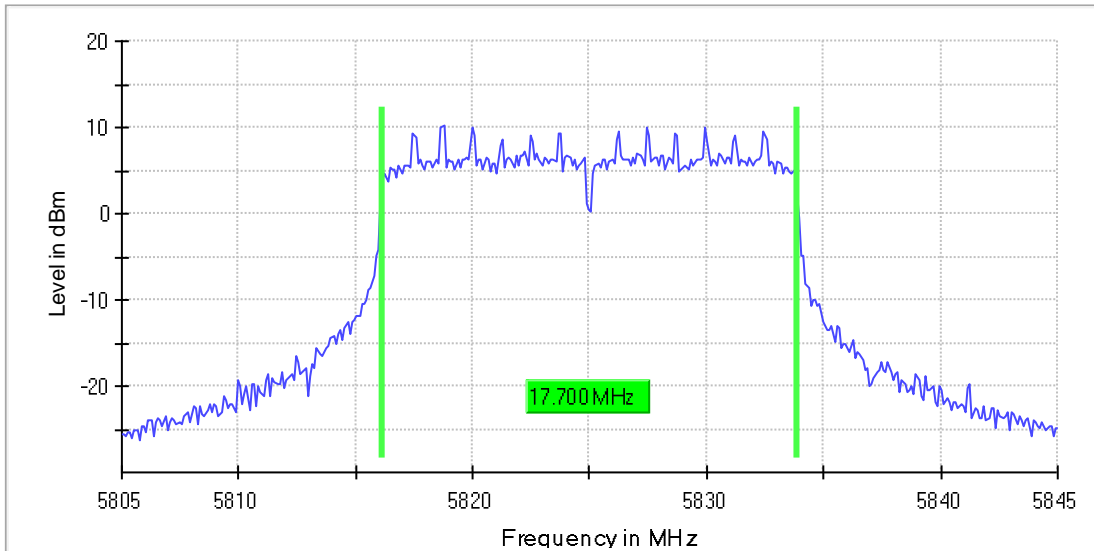




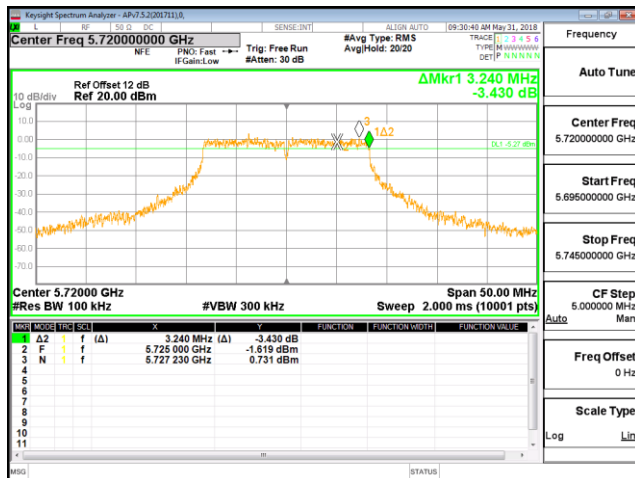
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5825.000000 | 17.700000 | 0.500000 | --- | 5816.150000 | 5833.850000 | 10.3 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000 | PASS |



| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Result |
|---------------------|-----------------|-----------------|--------|
| 5720.000000 | 3.240 | 0.500000 | PASS |



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



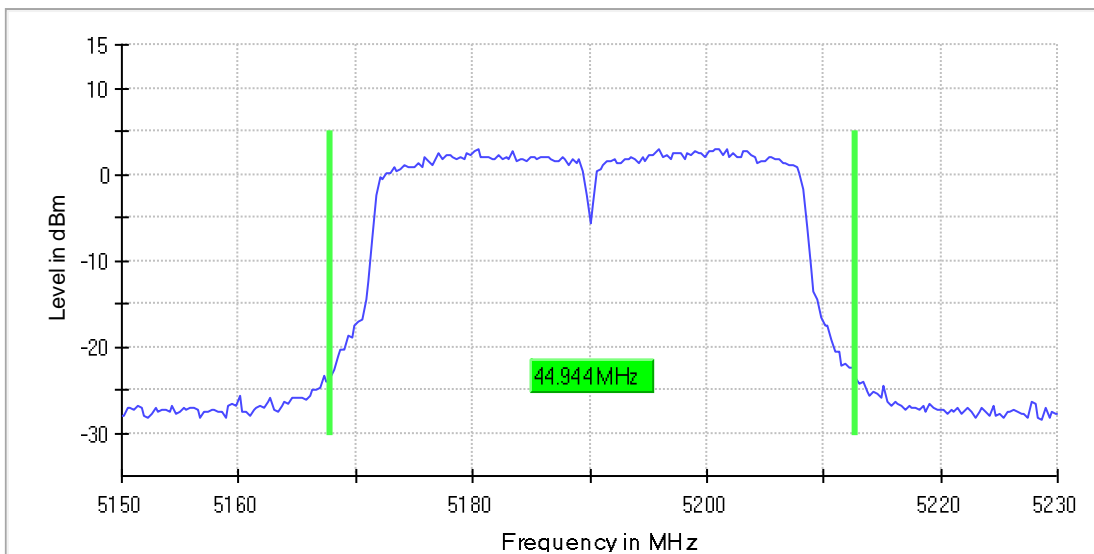
6.2.9. 802.11n HT40 MIMO MODE

6.2.9.1. UNII-1 BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5190.000000 | 44.943821 | --- | --- | 5167.827715 | 5212.771536 | 2.9 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5190.000000 | PASS |

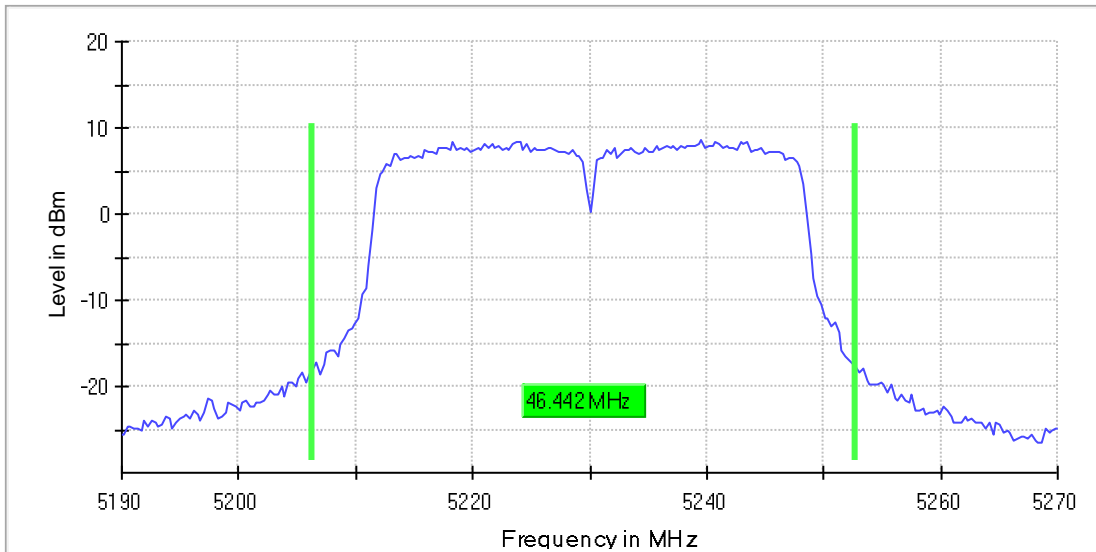




26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5230.000000 | 46.441948 | --- | --- | 5206.329588 | 5252.771536 | 8.5 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5230.000000 | PASS |





6.2.9.2. UNII-2A BAND

26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|
| 5270.000000 | 44.644195 | --- | --- | 5247.827715 | 5292.471910 | 6.6 |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5270.000000 | PASS |

