

# FCC AND ISED CERTIFICATION TEST REPORT

## FOR

|                             |   |   |
|-----------------------------|---|---|
| <b>Applicant</b>            | : | Harman International Industries, Inc.                         |
| <b>Address</b>              | : | 8500 Balboa Boulevard, Northridge, CA 91329,<br>UNITED STATES |
| <b>Equipment under Test</b> | : | Multi-Channel Soundbar with wireless subwoofer                |
| <b>Model No.</b>            | : | BAR 1000  |
| <b>Trade Mark</b>           | : | JBL   |
| <b>FCC ID</b>               | : | APIBAR1000  |
| <b>IC</b>                   | : | 6132A-BAR1000   |
| <b>Manufacturer</b>         | : | Harman International Industries, Inc.                         |
| <b>Address</b>              | : | 8500 Balboa Boulevard, Northridge, CA 91329,<br>UNITED STATES |

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add.:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,  
Dongguan City, Guangdong Province, China, 523808

**Tel.:** +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

# REPORT

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## Test Report Declare

|                             |   |  |
|-----------------------------|---|--|
| <b>Applicant</b>            | : | Harman International Industries, Inc.                      |
| <b>Address</b>              | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| <b>Equipment under Test</b> | : | Multi-Channel Soundbar with wireless subwoofer             |
| <b>Model No</b>             | : | BAR 1000   |
| <b>Trade Mark</b>           | : | JBL  |
| <b>Manufacturer</b>         | : | Harman International Industries, Inc.                      |
| <b>Address</b>              | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |

**Test Standard Used:** FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

**Test procedure used:** ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, 558074 D01 15.247 Meas Guidance v05r02, 662911 D01 Multiple Transmitter Output v02r01

**We Declare:**

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

**After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.**

|                         |                    |                      |                               |
|-------------------------|--------------------|----------------------|-------------------------------|
| <b>Report No:</b>       | DDT-R21123116-2E04 |                      |                               |
| <b>Date of Receipt:</b> | Feb. 18, 2022      | <b>Date of Test:</b> | Feb. 18, 2022 ~ Jun. 27, 2022 |

**Prepared By:**

*Johnny Wang*

**Johnny Wang/Engineer**

**Approved By:**



**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

### Revision History

| Rev. | Revisions     | Issue Date    | Revised By |
|------|---------------|---------------|------------|
| ---  | Initial issue | Jun. 27, 2022 |            |
|      |               |               |            |

## 1. Summary of Test Results

| The EUT have been tested according to the applicable standards as referenced below.   |   |         |
|---|---|---------|
| Description of Test Item  | Standard  | Results |
| 6dB Bandwidth and 99% Bandwidth   | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>RSS-247 Issue 2  | Pass    |
| Conducted Output Power  | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>RSS-247 Issue 2  | Pass    |
| Power Spectral Density  | FCC Part 15:15.247<br>ANSI C63.10:2013<br>RSS-247 Issue 2   | Pass    |
| Band-edge and Spurious Emissions<br>(Conducted)   | FCC Part 15: 15.209<br>FCC Part 15: 15.247<br>ANSI C63.10: 2013<br>RSS-247 Issue 2<br>RSS-Gen Issue 5 | Pass    |
| Radiated Spurious Emissions   | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>RSS-247 Issue 2<br>RSS-Gen Issue 5                         | Pass    |
| Radiated Band Edge Compliance   | FCC Part 15: 15.209<br>FCC Part 15: 15.247<br>ANSI C63.10: 2013<br>RSS-247 Issue 2<br>RSS-Gen Issue 5 | Pass    |
| Power Line Conducted Emission   | FCC Part 15: 15.207<br>ANSI C63.10: 2013<br>RSS-Gen Issue 5   | Pass    |
| Antenna requirement   | FCC Part 15: 15.203<br>RSS-Gen Issue 5  | Pass    |
| Note: This product has two audio power amplifier ICs (TAS5825M and TAS5825P). All items are tested on TAS5825M. According to the test results of TAS5825M, TAS5825P only the Radiation Emission (below 1 GHz) tested. |   |         |



## 2. General Test Information

### 2.1. Description of EUT

|                          |   |
|--------------------------|---|
| EUT* Name                | : Multi-Channel Soundbar with wireless subwoofer  |
| Model Number             | : BAR 1000  |
| EUT function description | : Please reference user manual of this device   |
| Power supply             | : AC 100-240V-50/60Hz 70W   |
| Radio Technology         | : IEEE 802.11b/g/n/ax   |
| Operation frequency      | : IEEE 802.11b: 2412MHz-2462MHz<br>IEEE 802.11g: 2412MHz-2462MHz<br>IEEE 802.11n HT20: 2412MHz-2462MHz<br>IEEE 802.11n HT40: 2422MHz-2452MHz<br>IEEE 802.11ax HE20: 2412MHz-2462MHz<br>IEEE 802.11ax HE40: 2422MHz-2452MHz  |
| Modulation               | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE20, HE40: OFDM (1024QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Transmitter rate         | : IEEE 802.11b: up to 11 Mbps<br>IEEE 802.11g: up to 54 Mbps<br>IEEE 802.11n HT20, HT40: up to 130 Mbps<br>IEEE 802.11ax HE20, HE40: up to 573.5 Mbps   |
| Antenna Type             | : Antenna 1: FPC antenna, Maximum PK gain: 2.59 dBi<br>Antenna 2: FPC antenna, Maximum PK gain: 2.59 dBi  |
| Sample Type              | : Series production   |
| Sample Number            | : S21123116-04 for conductive<br>S21123116-05 for radiation   |

Note: EUT is the ab. of equipment under test.

| Antenna information |           |           |      |
|---------------------|-----------|-----------|------|
|                     | Ant1 gain | Ant2 gain | MIMO |
| IEEE 802.11b        | 2.59      | 2.59      | /    |
| IEEE 802.11g        | 2.59      | 2.59      | /    |
| IEEE 802.11n HT20   | 2.59      | 2.59      | 5.60 |
| IEEE 802.11n HT40   | 2.59      | 2.59      | 5.60 |
| IEEE 802.11ax HE20  | 2.59      | 2.59      | 5.60 |
| IEEE 802.11ax HE40  | 2.59      | 2.59      | 5.60 |

| Channel information |                 |    |                 |    |                 |
|---------------------|-----------------|----|-----------------|----|-----------------|
| CH                  | Frequency (MHz) | CH | Frequency (MHz) | CH | Frequency (MHz) |
| 1                   | 2412            | 5  | 2432            | 9  | 2452            |
| 2                   | 2417            | 6  | 2437            | 10 | 2457            |
| 3                   | 2422            | 7  | 2442            | 11 | 2462            |
| 4                   | 2427            | 8  | 2447            | /  | /               |

|                        |                        |               |             |    |
|------------------------|------------------------|---------------|-------------|----|
| IEEE<br>802.11ax(HE20) | Operating Mode         | Resource Unit | 26 Tone(2M) |    |
|                        | Specific Resource Unit |               | 0           |    |
|                        |                        |               | 1           |    |
|                        |                        |               | 2           |    |
|                        |                        |               | 3           |    |
|                        |                        |               | 4           |    |
|                        |                        |               | 5           |    |
|                        |                        |               | 6           |    |
|                        |                        |               | 7           |    |
|                        |                        |               | 8           |    |
|                        |                        | 9             |             |    |
|                        |                        | Resource Unit | 52 Tone(4M) |    |
|                        | Specific Resource Unit |               | 37          |    |
|                        |                        |               | 38          |    |
|                        |                        | 39            |             |    |
|                        |                        | 40            |             |    |
|                        | Resource Unit          | 106 Tone(8M)  |             |    |
| Specific Resource Unit |                        | 53            |             |    |
|                        |                        | 54            |             |    |
|                        | Resource Unit          | 242 Tone(20M) |             |    |
| Specific Resource Unit |                        | 61            |             |    |
| Operating Mode         | Resource Unit          | 26 Tone(2M)   |             |    |
| IEEE<br>802.11ax(HE40) | Specific Resource Unit |               | 0           | 9  |
|                        |                        |               | 1           | 10 |
|                        |                        |               | 2           | 11 |
|                        |                        |               | 3           | 12 |
|                        |                        |               | 4           | 13 |
|                        |                        |               | 5           | 14 |
|                        |                        |               | 6           | 15 |
|                        |                        |               | 7           | 16 |
|                        |                        |               | 8           | 17 |
|                        |                        | Resource Unit | 52 Tone(4M) |    |
|                        | Specific Resource Unit |               | 37          | 41 |
|                        |                        |               | 38          | 42 |
|                        |                        |               | 39          | 43 |
|                        |                        |               | 40          | 44 |
|                        | Resource Unit          | 106 Tone(8M)  |             |    |
| Specific Resource Unit |                        | 53            | 55          |    |
|                        |                        | 54            | 56          |    |
|                        | Resource Unit          | 242 Tone(20M) |             |    |
| Specific Resource Unit |                        | 61            | 62          |    |
|                        | Resource Unit          | 484 Tone(40M) |             |    |
| Specific Resource Unit |                        | 65            |             |    |



## 2.2. Accessories of EUT

| Description of Accessories | Manufacturer | Model number | Description | Other                                  |
|----------------------------|--------------|--------------|-------------|--|
| AC cable                   | Harman       | N/A          | N/A         | Length: 1.85m,                         |
| HDMI cable                 | Harman       | N/A          | N/A         | Length: 1.17m, with two magnetic rings |
| Remote control             | Harman       | N/A          | N/A         | N/A                                    |

## 2.3. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | EMC Compliance | SN  |
|---------------------|--------------|--------------|----------------|-----|
| N/A                 | N/A          | N/A          | N/A            | N/A |

## 2.4. Block diagram of EUT configuration for test



The test software was used to control EUT work in Continuous Tx mode and select test channel, wireless mode as below table.

Test software: adb.exe

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

| Tested mode, channel, and data rate information |                  |      |                                |           |                    |
|---|------------------|------|--------------------------------|-----------|--------------------|
| Mode  | Setting Tx Power |      | data rate (Mbps)<br>(see Note) | Channel   | Frequency<br>(MHz) |
|   | Ant1             | Ant2 |                                |           |                    |
| IEEE 802.11b                                    | 12               |      | 1                              | LCH: CH1  | 2412               |
|   | 12               |      | 1                              | MCH: CH6  | 2437               |
|   | 12               |      | 1                              | HCH: CH11 | 2462               |
| IEEE 802.11g                                    | 12               |      | 6                              | LCH: CH1  | 2412               |
|   | 12               |      | 6                              | MCH: CH6  | 2437               |
|   | 12               |      | 6                              | HCH: CH11 | 2462               |
| IEEE 802.11n HT20                               | 7                |      | MCS 0                          | LCH: CH1  | 2412               |
|   | 7                |      | MCS 0                          | MCH: CH6  | 2437               |
|   | 7                |      | MCS 0                          | HCH: CH11 | 2462               |
| IEEE 802.11n HT40                               | 7                |      | MCS 0                          | LCH: CH3  | 2422               |
|   | 7                |      | MCS 0                          | MCH: CH6  | 2437               |
|   | 7                |      | MCS 0                          | HCH: CH9  | 2452               |
| IEEE 802.11ax<br>HE20                           | /                |      | MCS 0                          | LCH: CH1  | 2412               |
|   | /                |      | MCS 0                          | MCH: CH6  | 2437               |
|   | /                |      | MCS 0                          | HCH: CH11 | 2462               |
| IEEE 802.11ax<br>HE40                           | /                |      | MCS 0                          | LCH: CH3  | 2422               |
|   | /                |      | MCS 0                          | MCH: CH6  | 2437               |
|   | /                |      | MCS 0                          | HCH: CH9  | 2452               |

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

## 2.5. Deviations of test standard

No Deviation

## 2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |           |
|--------------------|-----------|
| Temperature range: | 21-25°C   |
| Humidity range:    | 40-75%    |
| Pressure range:    | 86-106kPa |

## 2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com).

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

## 2.8. Measurement uncertainty

| Test Item   | Uncertainty                                    |
|---|--|
| Bandwidth   | 1.1%   |
| Peak Output Power (Conducted) (Spectrum analyzer)   | 0.86 dB (10 MHz ≤ f < 3.6 GHz);                |
|   | 1.38 dB (3.6 GHz ≤ f < 8 GHz)                  |
| Peak Output Power (Conducted) (Power Sensor)  | 0.74 dB  |
| Power Spectral Density  | 0.74 dB (10 MHz ≤ f < 3.6 GHz);                |
|   | 1.38 dB (3.6 GHz ≤ f < 8 GHz)                  |
| Frequencies Stability   | 6.7 x 10 <sup>-8</sup> (Antenna couple method) |
|   | 5.5 x 10 <sup>-8</sup> (Conducted method)      |
| Conducted spurious emissions  | 0.86 dB (10 MHz ≤ f < 3.6 GHz);                |
|   | 1.40 dB (3.6 GHz ≤ f < 8 GHz)                  |
|   | 1.66 dB (8 GHz ≤ f < 22 GHz)                   |
| Uncertainty for radio frequency (RBW<20 kHz)  | 3x10 <sup>-8</sup>                             |
| Temperature   | 0.4°C  |
| Humidity  | 2%   |
| Uncertainty for Radiation Emission test<br>(30 MHz-1 GHz)   | 4.70 dB (Antenna Polarize: V)                  |
|   | 4.84 dB (Antenna Polarize: H)                  |
| Uncertainty for Radiation Emission test<br>(1 GHz-40 GHz)   | 4.10 dB (1-6 GHz)                              |
|   | 4.40 dB (6 GHz-18 GHz)                         |
|   | 3.54 dB (18 GHz-26 GHz)                        |
|   | 4.30 dB (26 GHz-40 GHz)                        |
| Uncertainty for Power line conduction emission test   | 3.32 dB (150 kHz-30 MHz)                       |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |  |

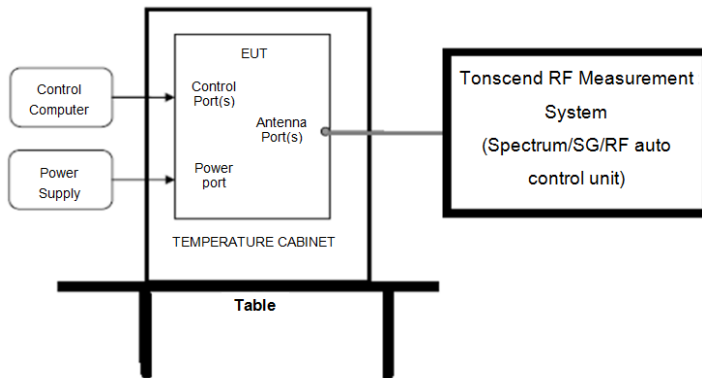
### 3. Equipment Used During Test

| Equipment   | Manufacturer | Model No.   | Serial No.      | Last Cal.     | Cal. Interval |
|---|--------------|-------------|-----------------|---------------|---------------|
| <b>☑RF Connected Test (Tonscend RF Measurement System 3#)</b> |              |             |                 |               |               |
| Spectrum Analyzer   | R&S          | FSU26       | 200071          | Sep. 02, 2021 | 1 Year        |
| Wideband Radio Communication tester                           | R&S          | CMW500      | 117491          | Jun. 01, 2021 | 1 Year        |
| Wideband Radio Communication tester                           | R&S          | CMW500      | 117491          | May 18, 2022  | 1 Year        |
| Vector Signal Generator                                       | Agilent      | N5182A      | MY19060405      | Jun. 01, 2021 | 1 Year        |
| Vector Signal Generator                                       | Agilent      | N5182A      | MY19060405      | May 18, 2022  | 1 Year        |
| Vector Signal Generator                                       | Agilent      | N5182A      | MY48180912      | Jun. 01, 2021 | 1 Year        |
| Vector Signal Generator                                       | Agilent      | N5182A      | MY48180912      | May 18, 2022  | 1 Year        |
| RF Control Unit   | Tonsend      | JS0806-2    | DDT-ZC01449     | Jun. 01, 2021 | 1 Year        |
| RF Control Unit   | Tonsend      | JS0806-2    | DDT-ZC01449     | May 18, 2022  | 1 Year        |
| Temp&Humi Programmable  | ZHIXIANG     | ZXGDJS-150L | ZX170110-A      | Jun. 01, 2021 | 1 Year        |
| Temp&Humi Programmable  | ZHIXIANG     | ZXGDJS-150L | ZX170110-A      | May 26, 2022  | 1 Year        |
| Test Software   | JS Tonscend  | JS1120-3    | Ver.2.6.77.0518 | N/A           | N/A           |
| <b>☑Radiation 3#chamber</b>                                   |              |             |                 |               |               |
| EMI Test Receiver   | R&S          | ESU         | 100472          | Jun. 01, 2021 | 1 Year        |
| EMI Test Receiver   | R&S          | ESU         | 100472          | May 18, 2022  | 1 Year        |
| Spectrum analyzer   | Agilent      | E4447A      | MY50180031      | Jun. 01, 2021 | 1 Year        |
| Spectrum analyzer   | Agilent      | E4447A      | MY50180031      | May 18, 2022  | 1 Year        |
| Active Loop antenna   | Schwarzbeck  | FMZB-1519   | 1519-038        | Sep. 19, 2021 | 1 Year        |
| Trilog Broadband Antenna                                      | Schwarzbeck  | VULB 9163   | 01429           | Aug. 07, 2021 | 1 Year        |
| Double Ridged Horn Antenna                                    | Schwarzbeck  | BBHA9120    | 02108           | Jul. 17, 2021 | 1 Year        |
| Broad Band Horn Antenna                                       | Schwarzbeck  | BBHA 9170   | 790             | May 08, 2021  | 1 Year        |
| Broad Band Horn Antenna                                       | Schwarzbeck  | BBHA 9170   | 790             | May 06, 2022  | 1 Year        |
| Pre-amplifier   | COM-POWER    | PAM-118A    | 18040084        | Sep. 02, 2021 | 1 Year        |
| Pre-amplifier   | COM-POWER    | PAM-840A    | 461369          | Mar. 15, 2021 | 1 Year        |
| Pre-amplifier   | COM-POWER    | PAM-840A    | 461369          | Apr. 11, 2022 | 1 Year        |
| Test software   | Audix        | E3          | V 6.1.1.1       | N/A           | N/A           |
| <b>☑Power Line Conducted Emissions Test 1#</b>                |              |             |                 |               |               |
| Test Receiver   | R&S          | ESCI        | 100551          | Sep. 02, 2021 | 1 Year        |
| LISN 1  | R&S          | ENV216      | 101109          | Sep. 02, 2021 | 1 Year        |
| LISN 2  | R&S          | ESH2-Z5     | 100309          | Sep. 02, 2021 | 1 Year        |
| Pulse Limiter   | R&S          | ESH3-Z2     | 101242          | Sep. 02, 2021 | 1 Year        |

|            |             |           |        |               |        |
|------------|-------------|-----------|--------|---------------|--------|
| CE Cable 1 | HUBSER      | N/A       | W10.01 | Sep. 02, 2021 | 1 Year |
| LISN 3     | SCHWARZBECK | NSLK 8163 | 00017  | Sep. 02, 2021 | 1 Year |

## 4. 6dB Bandwidth and 99% Bandwidth

### 4.1. Block diagram of test setup



### 4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

### 4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

|                |          |
|----------------|----------|
| RBW:           | 300 kHz  |
| VBW:           | 1 MHz    |
| Detector Mode: | Peak     |
| Sweep time:    | auto     |
| Trace mode     | Max hold |

(3) 6dB Bandwidth set the spectrum analyzer as follows:

|                |          |
|----------------|----------|
| RBW:           | 100 kHz  |
| VBW:           | 300 kHz  |
| Detector Mode: | Peak     |
| Sweep time:    | auto     |
| Trace mode     | Max hold |

(4) Allow the trace to stabilize, 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 dB relative to the maximum level measured in the fundamental emission.



## 4.4. Test result

| Test Mode | Test | Ant  | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-----------|------|------|---------------------|-------------|---------|
| 11B       | 2412 | Ant1 | 8.16                | 0.5         | Pass    |
| 11B       | 2412 | Ant2 | 8.16                | 0.5         | Pass    |
| 11B       | 2437 | Ant1 | 8.16                | 0.5         | Pass    |
| 11B       | 2437 | Ant2 | 8.16                | 0.5         | Pass    |
| 11B       | 2462 | Ant1 | 8.12                | 0.5         | Pass    |
| 11B       | 2462 | Ant2 | 8.12                | 0.5         | Pass    |
| 11G       | 2412 | Ant1 | 15.08               | 0.5         | Pass    |
| 11G       | 2412 | Ant2 | 15.16               | 0.5         | Pass    |
| 11G       | 2437 | Ant1 | 15.16               | 0.5         | Pass    |
| 11G       | 2437 | Ant2 | 15.52               | 0.5         | Pass    |
| 11G       | 2462 | Ant1 | 15.56               | 0.5         | Pass    |
| 11G       | 2462 | Ant2 | 15.88               | 0.5         | Pass    |
| 11N20MIMO | 2412 | Ant1 | 15.20               | 0.5         | Pass    |
| 11N20MIMO | 2412 | Ant2 | 15.16               | 0.5         | Pass    |
| 11N20MIMO | 2437 | Ant1 | 15.80               | 0.5         | Pass    |
| 11N20MIMO | 2437 | Ant2 | 16.40               | 0.5         | Pass    |
| 11N20MIMO | 2462 | Ant1 | 15.12               | 0.5         | Pass    |
| 11N20MIMO | 2462 | Ant2 | 15.80               | 0.5         | Pass    |
| 11N40MIMO | 2422 | Ant1 | 35.28               | 0.5         | Pass    |
| 11N40MIMO | 2422 | Ant2 | 35.20               | 0.5         | Pass    |
| 11N40MIMO | 2437 | Ant1 | 35.28               | 0.5         | Pass    |
| 11N40MIMO | 2437 | Ant2 | 34.00               | 0.5         | Pass    |
| 11N40MIMO | 2452 | Ant1 | 35.20               | 0.5         | Pass    |
| 11N40MIMO | 2452 | Ant2 | 35.20               | 0.5         | Pass    |
| 11AX20SU  | 2412 | Ant1 | 18.52               | 0.5         | Pass    |
| 11AX20SU  | 2412 | Ant2 | 16.20               | 0.5         | Pass    |
| 11AX20SU  | 2437 | Ant1 | 18.12               | 0.5         | Pass    |
| 11AX20SU  | 2437 | Ant2 | 18.60               | 0.5         | Pass    |
| 11AX20SU  | 2462 | Ant1 | 17.88               | 0.5         | Pass    |
| 11AX20SU  | 2462 | Ant2 | 16.44               | 0.5         | Pass    |
| 11AX40SU  | 2422 | Ant1 | 36.64               | 0.5         | Pass    |
| 11AX40SU  | 2422 | Ant2 | 35.28               | 0.5         | Pass    |
| 11AX40SU  | 2437 | Ant1 | 36.48               | 0.5         | Pass    |
| 11AX40SU  | 2437 | Ant2 | 36.64               | 0.5         | Pass    |
| 11AX40SU  | 2452 | Ant1 | 35.28               | 0.5         | Pass    |
| 11AX40SU  | 2452 | Ant2 | 35.20               | 0.5         | Pass    |

| Test Mode  | Antenna | Channel | Ru Size | Ru Index | DTS BW [MHz] | Limit [MHz] | Verdict |
|------------|---------|---------|---------|----------|--------------|-------------|---------|
| 11AX20MIMO | Ant1    | 2412    | 26Tone  | RU0      | 2.12         | 0.5         | PASS    |
|            |         |         |         | RU4      | 2.68         | 0.5         | PASS    |
|            |         |         |         | RU8      | 2.08         | 0.5         | PASS    |
|            |         |         | 52Tone  | RU37     | 17.00        | 0.5         | PASS    |
|            |         |         |         | RU38     | 15.00        | 0.5         | PASS    |
|            |         |         |         | RU39     | 15.08        | 0.5         | PASS    |
|            |         |         | 106Tone | RU40     | 17.08        | 0.5         | PASS    |
|            |         |         |         | RU53     | 17.12        | 0.5         | PASS    |
|            |         |         |         | RU54     | 17.08        | 0.5         | PASS    |
|            | Ant2    | 2412    | 26Tone  | RU0      | 2.00         | 0.5         | PASS    |
|            |         |         |         | RU4      | 2.60         | 0.5         | PASS    |
|            |         |         |         | RU8      | 2.04         | 0.5         | PASS    |
|            |         |         | 52Tone  | RU37     | 17.00        | 0.5         | PASS    |
|            |         |         |         | RU38     | 15.04        | 0.5         | PASS    |
|            |         |         |         | RU39     | 15.08        | 0.5         | PASS    |
|            |         |         | 106Tone | RU40     | 17.04        | 0.5         | PASS    |
|            |         |         |         | RU53     | 17.12        | 0.5         | PASS    |
|            |         |         |         | RU54     | 17.12        | 0.5         | PASS    |
|            | Ant1    | 2437    | 26Tone  | RU0      | 2.08         | 0.5         | PASS    |
|            |         |         |         | RU4      | 2.64         | 0.5         | PASS    |
|            |         |         |         | RU8      | 2.12         | 0.5         | PASS    |
|            |         |         | 52Tone  | RU37     | 17.08        | 0.5         | PASS    |
|            |         |         |         | RU38     | 15.08        | 0.5         | PASS    |
|            |         |         |         | RU39     | 15.04        | 0.5         | PASS    |
|            |         |         | 106Tone | RU40     | 17.00        | 0.5         | PASS    |
|            |         |         |         | RU53     | 17.12        | 0.5         | PASS    |
|            |         |         |         | RU54     | 17.08        | 0.5         | PASS    |
|            | Ant2    | 2437    | 26Tone  | RU0      | 2.04         | 0.5         | PASS    |
|            |         |         |         | RU4      | 2.64         | 0.5         | PASS    |
|            |         |         |         | RU8      | 2.12         | 0.5         | PASS    |
|            |         |         | 52Tone  | RU37     | 17.04        | 0.5         | PASS    |
|            |         |         |         | RU38     | 15.12        | 0.5         | PASS    |
|            |         |         |         | RU39     | 15.04        | 0.5         | PASS    |
|            |         |         | 106Tone | RU40     | 17.08        | 0.5         | PASS    |
|            |         |         |         | RU53     | 17.12        | 0.5         | PASS    |
|            |         |         |         | RU54     | 17.16        | 0.5         | PASS    |
|            | Ant1    | 2462    | 26Tone  | RU0      | 2.12         | 0.5         | PASS    |
|            |         |         |         | RU4      | 2.64         | 0.5         | PASS    |
|            |         |         |         | RU8      | 2.08         | 0.5         | PASS    |
|            |         |         | 52Tone  | RU37     | 17.04        | 0.5         | PASS    |
|            |         |         |         | RU38     | 15.04        | 0.5         | PASS    |
|            |         |         |         | RU39     | 3.96         | 0.5         | PASS    |
| 106Tone    |         |         | RU40    | 17.04    | 0.5          | PASS        |         |
|            |         |         | RU53    | 17.68    | 0.5          | PASS        |         |
|            |         |         | RU54    | 17.12    | 0.5          | PASS        |         |
| Ant2       | 2462    | 26Tone  | RU0     | 2.08     | 0.5          | PASS        |         |
|            |         |         | RU4     | 2.64     | 0.5          | PASS        |         |
|            |         |         | RU8     | 2.04     | 0.5          | PASS        |         |

|            |      |         |         |         |       |         |      |       |     |      |
|------------|------|---------|---------|---------|-------|---------|------|-------|-----|------|
| 11AX40MIMO |      |         | 52Tone  | RU37    | 17.08 | 0.5     | PASS |       |     |      |
|            |      |         |         | RU38    | 15.00 | 0.5     | PASS |       |     |      |
|            |      |         |         | RU39    | 15.04 | 0.5     | PASS |       |     |      |
|            |      |         |         | RU40    | 17.00 | 0.5     | PASS |       |     |      |
|            | Ant1 | 2422    | 242Tone | 106Tone | RU53  | 17.12   | 0.5  | PASS  |     |      |
|            |      |         |         |         | RU54  | 17.16   | 0.5  | PASS  |     |      |
|            |      |         |         | RU61    | 18.72 | 0.5     | PASS |       |     |      |
|            |      |         |         | RU62    | 18.80 | 0.5     | PASS |       |     |      |
|            |      |         |         | Ant2    | 2422  | 242Tone | RU61 | 18.64 | 0.5 | PASS |
|            |      |         |         |         |       |         | RU62 | 18.72 | 0.5 | PASS |
| Ant1       | 2437 | 242Tone | RU61    | 18.80   | 0.5   | PASS    |      |       |     |      |
|            |      |         | RU62    | 18.80   | 0.5   | PASS    |      |       |     |      |
| Ant2       | 2437 | 242Tone | RU61    | 18.64   | 0.5   | PASS    |      |       |     |      |
|            |      |         | RU62    | 18.80   | 0.5   | PASS    |      |       |     |      |
| Ant1       | 2452 | 242Tone | RU61    | 18.80   | 0.5   | PASS    |      |       |     |      |
|            |      |         | RU62    | 18.80   | 0.5   | PASS    |      |       |     |      |
| Ant2       | 2452 | 242Tone | RU61    | 18.72   | 0.5   | PASS    |      |       |     |      |
|            |      |         | RU62    | 18.80   | 0.5   | PASS    |      |       |     |      |

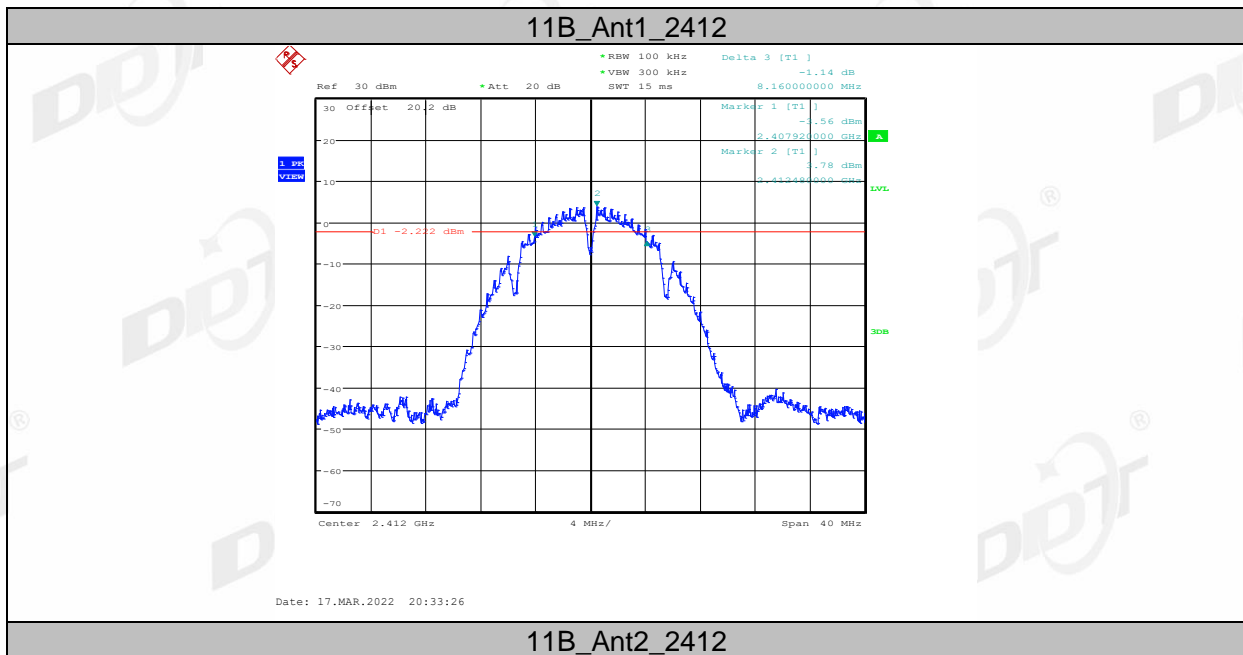
| Test Mode | Test | Ant  | 99% OBW [MHz] | Limit [MHz] | Verdict |
|-----------|------|------|---------------|-------------|---------|
| 11B       | 2412 | Ant1 | 12.36         | ---         | Pass    |
| 11B       | 2412 | Ant2 | 12.20         | ---         | Pass    |
| 11B       | 2437 | Ant1 | 12.48         | ---         | Pass    |
| 11B       | 2437 | Ant2 | 12.28         | ---         | Pass    |
| 11B       | 2462 | Ant1 | 12.44         | ---         | Pass    |
| 11B       | 2462 | Ant2 | 12.28         | ---         | Pass    |
| 11G       | 2412 | Ant1 | 17.16         | ---         | Pass    |
| 11G       | 2412 | Ant2 | 17.20         | ---         | Pass    |
| 11G       | 2437 | Ant1 | 19.36         | ---         | Pass    |
| 11G       | 2437 | Ant2 | 19.32         | ---         | Pass    |
| 11G       | 2462 | Ant1 | 19.24         | ---         | Pass    |
| 11G       | 2462 | Ant2 | 19.28         | ---         | Pass    |
| 11N20MIMO | 2412 | Ant1 | 17.96         | ---         | Pass    |
| 11N20MIMO | 2412 | Ant2 | 17.76         | ---         | Pass    |
| 11N20MIMO | 2437 | Ant1 | 20.20         | ---         | Pass    |
| 11N20MIMO | 2437 | Ant2 | 18.76         | ---         | Pass    |
| 11N20MIMO | 2462 | Ant1 | 20.24         | ---         | Pass    |
| 11N20MIMO | 2462 | Ant2 | 18.76         | ---         | Pass    |
| 11N40MIMO | 2422 | Ant1 | 36.24         | ---         | Pass    |
| 11N40MIMO | 2422 | Ant2 | 36.32         | ---         | Pass    |
| 11N40MIMO | 2437 | Ant1 | 36.16         | ---         | Pass    |
| 11N40MIMO | 2437 | Ant2 | 36.24         | ---         | Pass    |
| 11N40MIMO | 2452 | Ant1 | 36.24         | ---         | Pass    |

|           |      |      |       |     |      |
|-----------|------|------|-------|-----|------|
| 11N40MIMO | 2452 | Ant2 | 36.24 | --- | Pass |
| 11AX20SU  | 2412 | Ant1 | 18.88 | --- | Pass |
| 11AX20SU  | 2412 | Ant2 | 18.88 | --- | Pass |
| 11AX20SU  | 2437 | Ant1 | 19.36 | --- | Pass |
| 11AX20SU  | 2437 | Ant2 | 19.32 | --- | Pass |
| 11AX20SU  | 2462 | Ant1 | 19.36 | --- | Pass |
| 11AX20SU  | 2462 | Ant2 | 19.32 | --- | Pass |
| 11AX40SU  | 2422 | Ant1 | 37.84 | --- | Pass |
| 11AX40SU  | 2422 | Ant2 | 37.84 | --- | Pass |
| 11AX40SU  | 2437 | Ant1 | 37.92 | --- | Pass |
| 11AX40SU  | 2437 | Ant2 | 37.92 | --- | Pass |
| 11AX40SU  | 2452 | Ant1 | 37.76 | --- | Pass |
| 11AX40SU  | 2452 | Ant2 | 37.76 | --- | Pass |

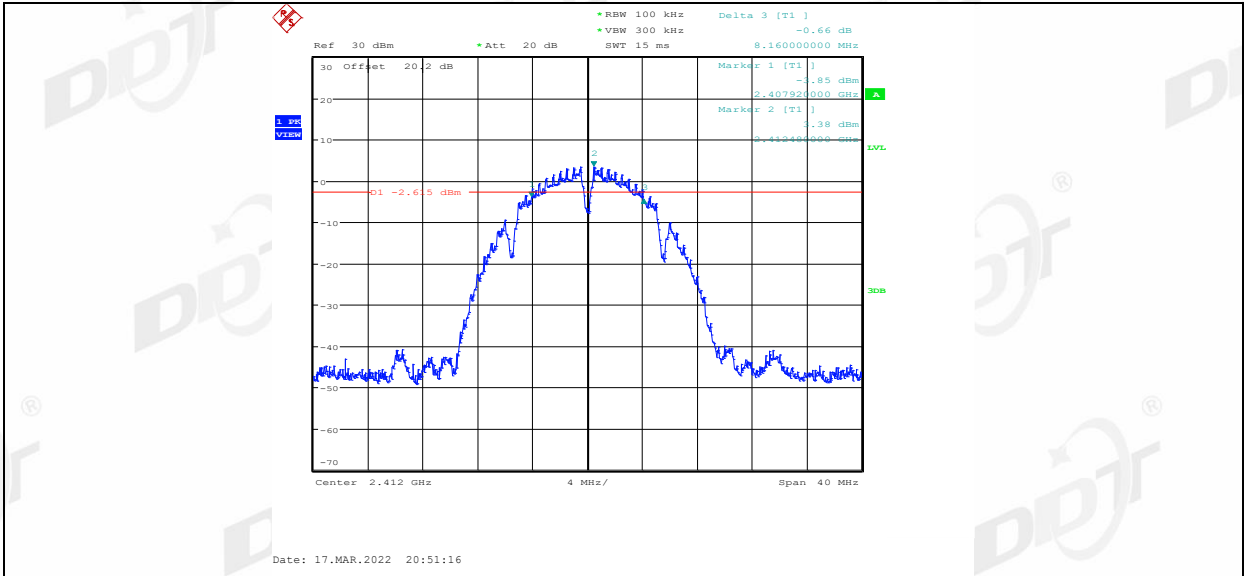
Note: according exploratory explorer test, for 802.11ax Mode, Specific Resource Unit have no distinct influence on 99% OBW, so for 99% OBW, the final test was only performed with EUT working in 802.11ax SU mode.

#### 4.5. Original test data

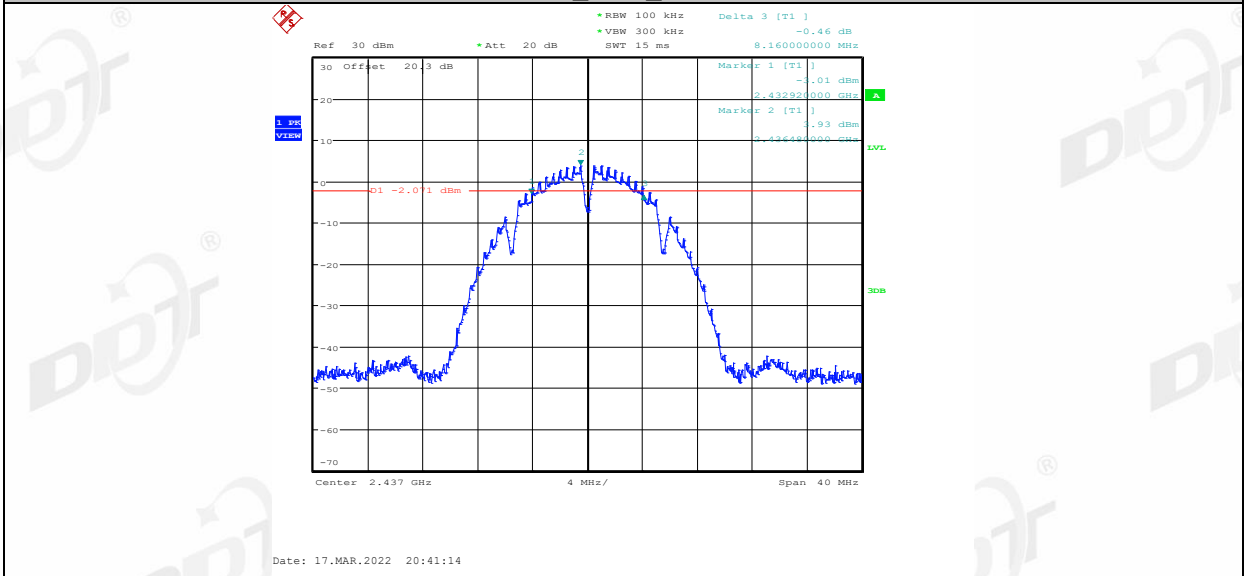
6 dB bandwidth:



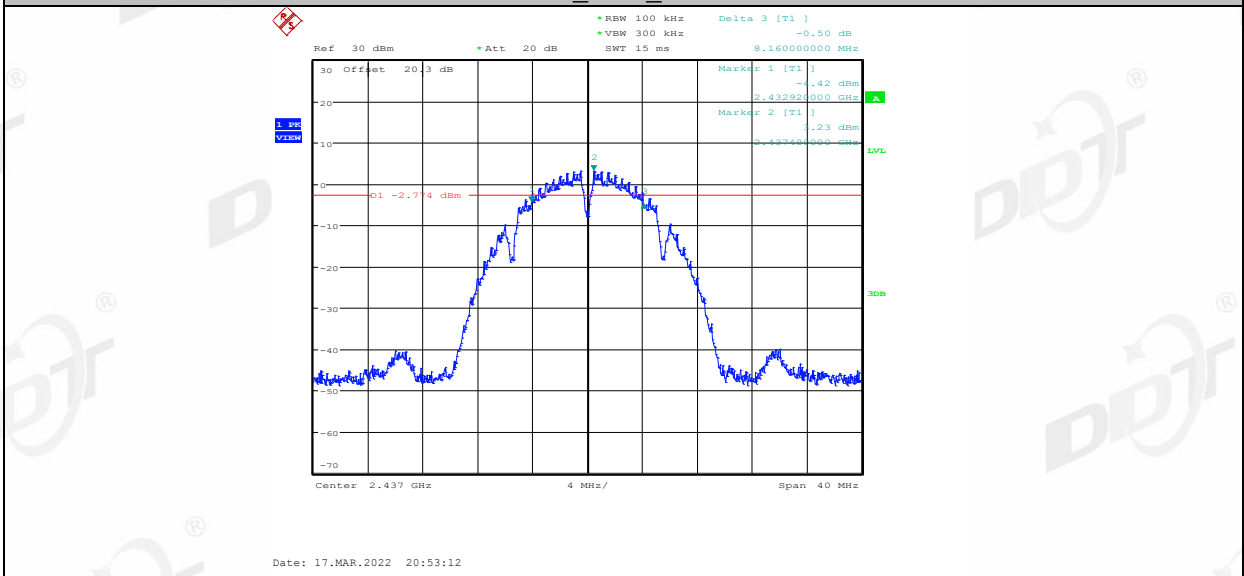
11B\_Ant2\_2412



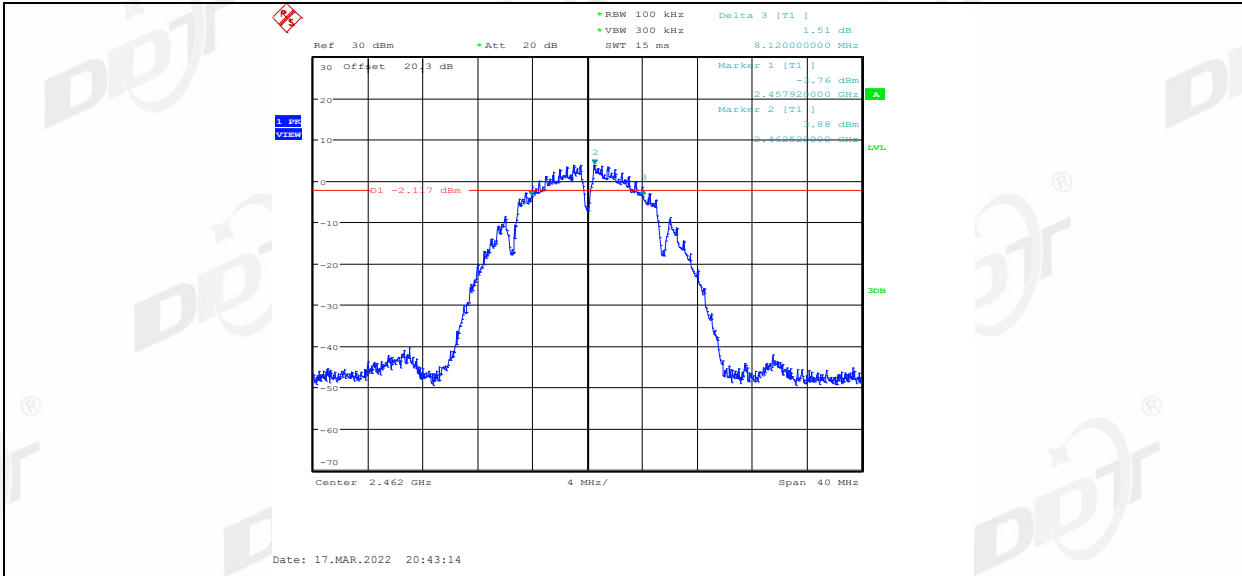
11B\_Ant1\_2437



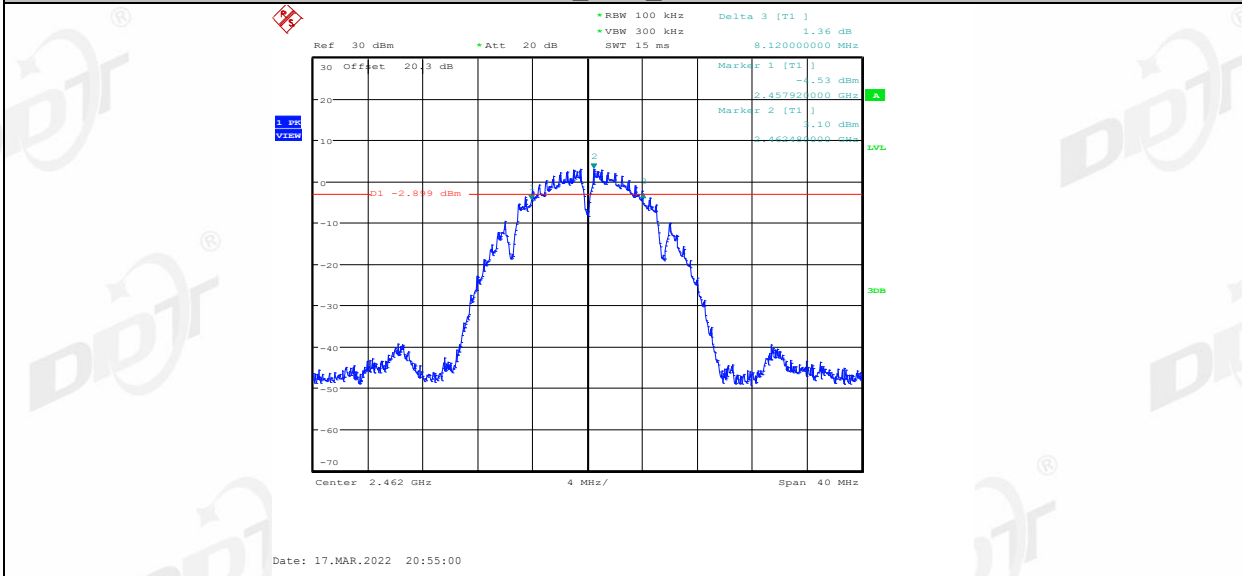
11B\_Ant2\_2437



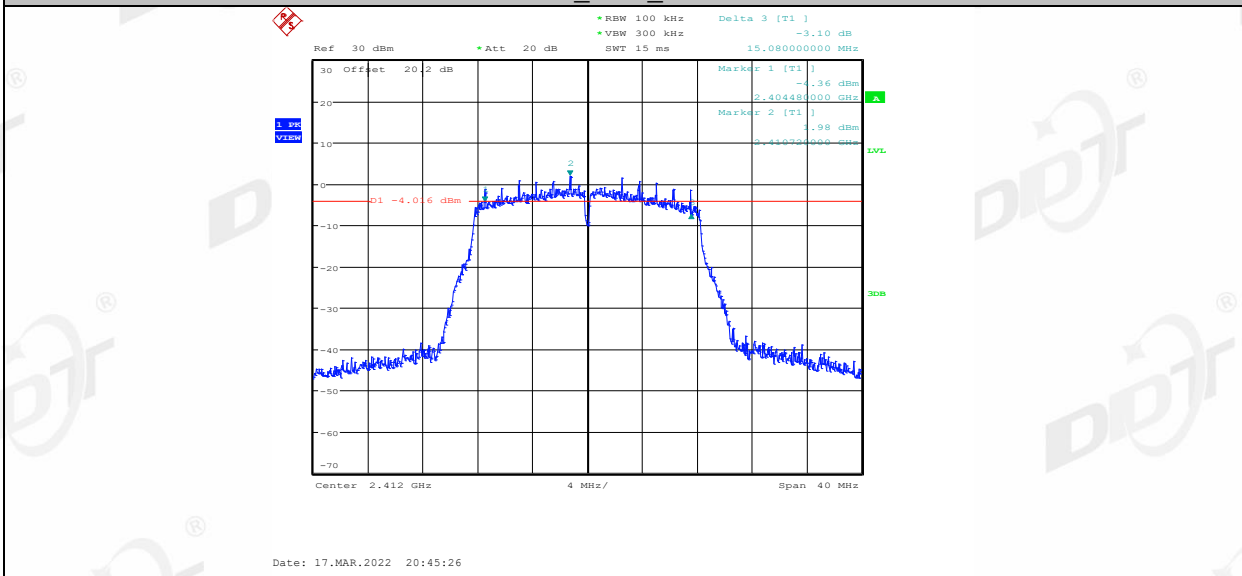
11B\_Ant1\_2462



11B\_Ant2\_2462

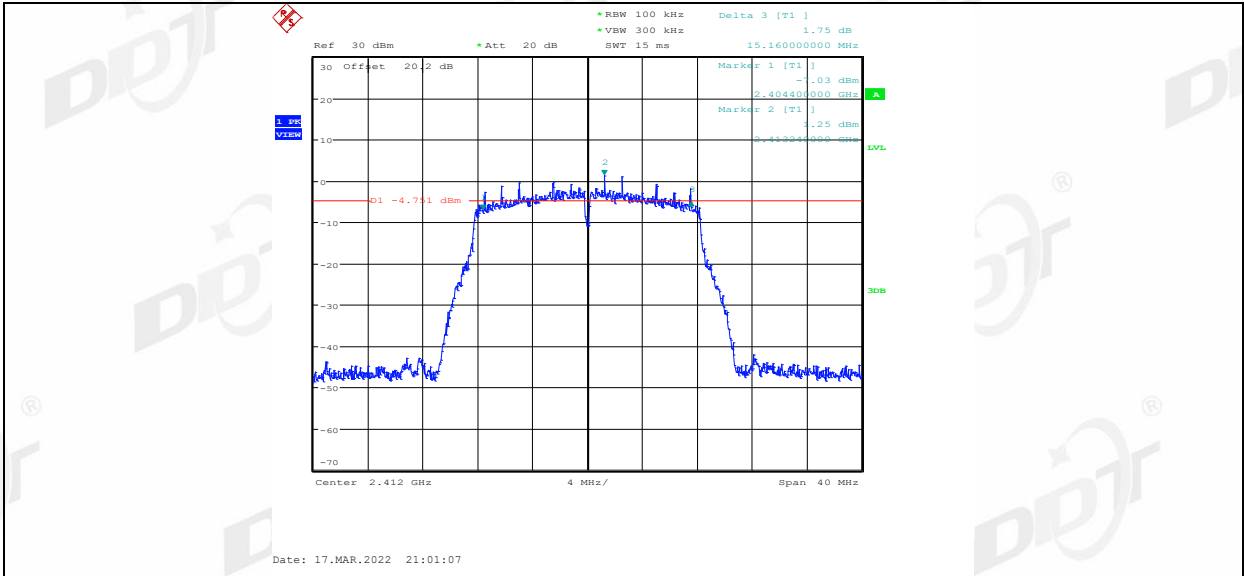


11G\_Ant1\_2412

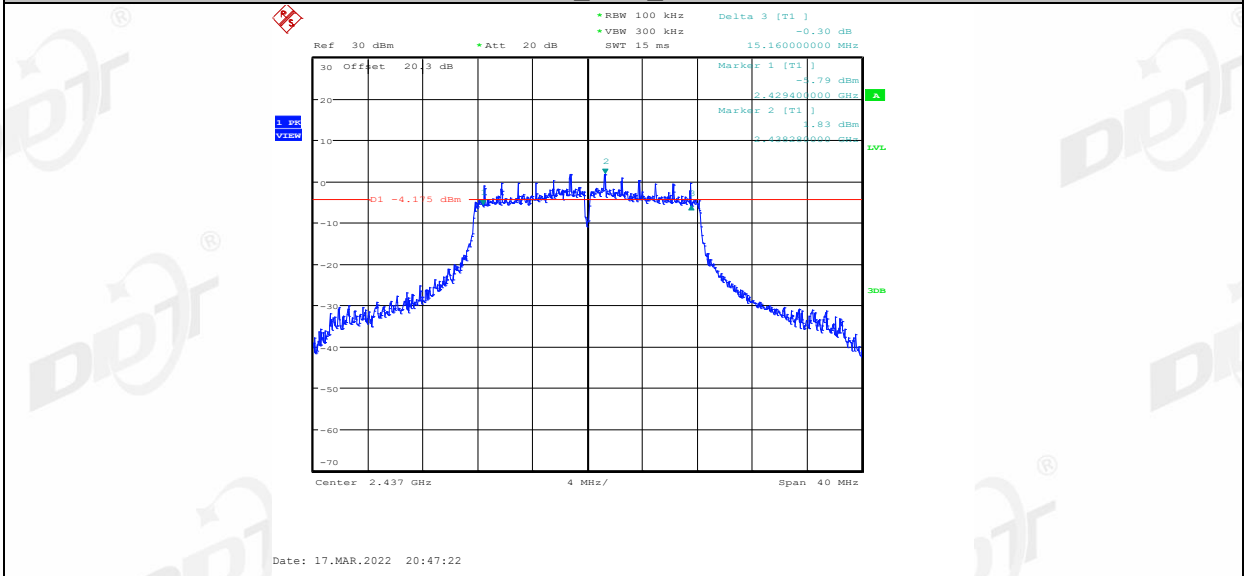


11G\_Ant2\_2412

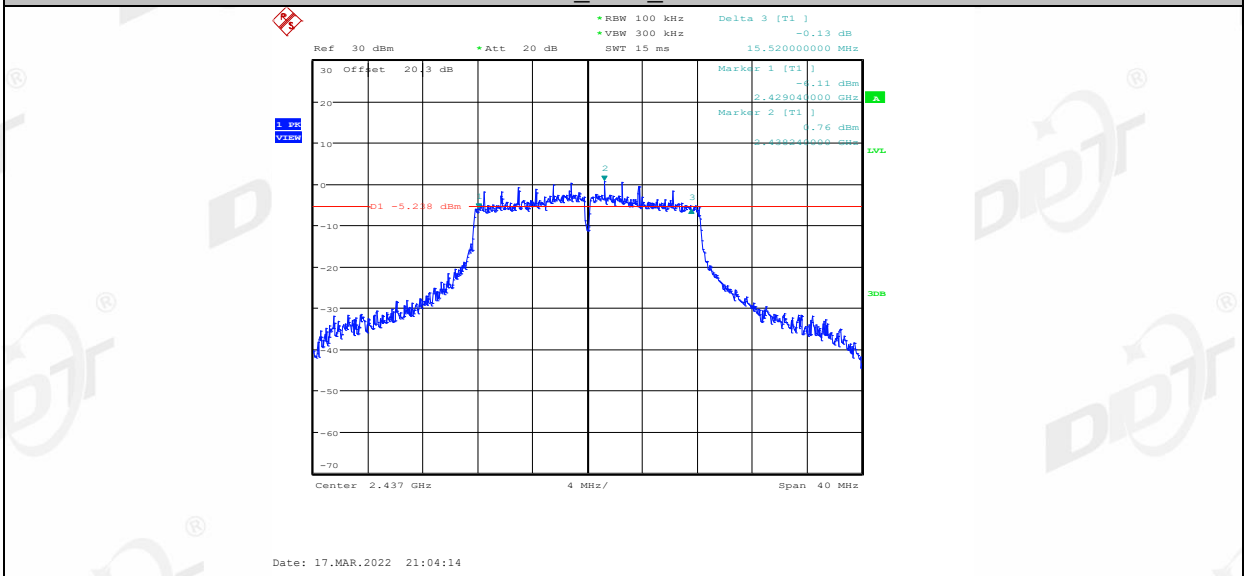




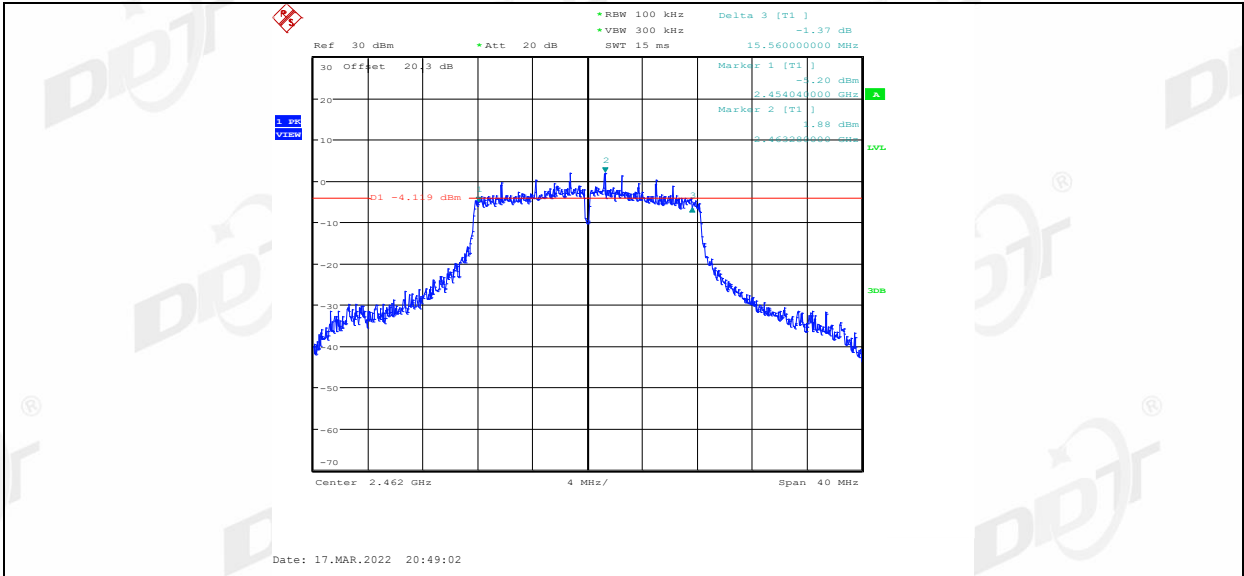
11G\_Ant1\_2437



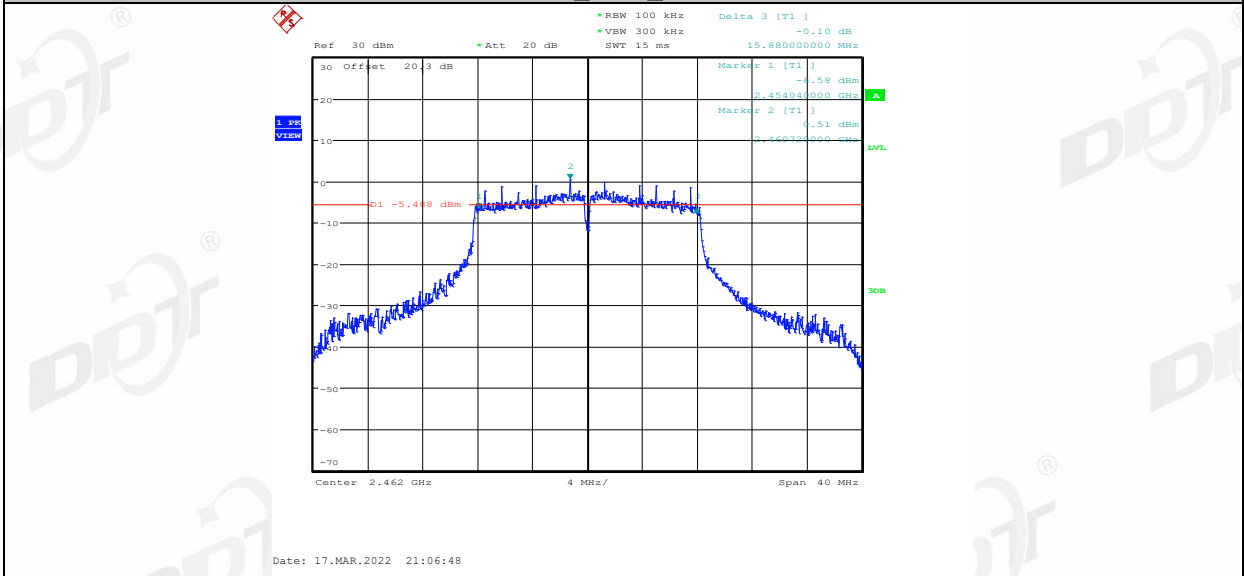
11G\_Ant2\_2437



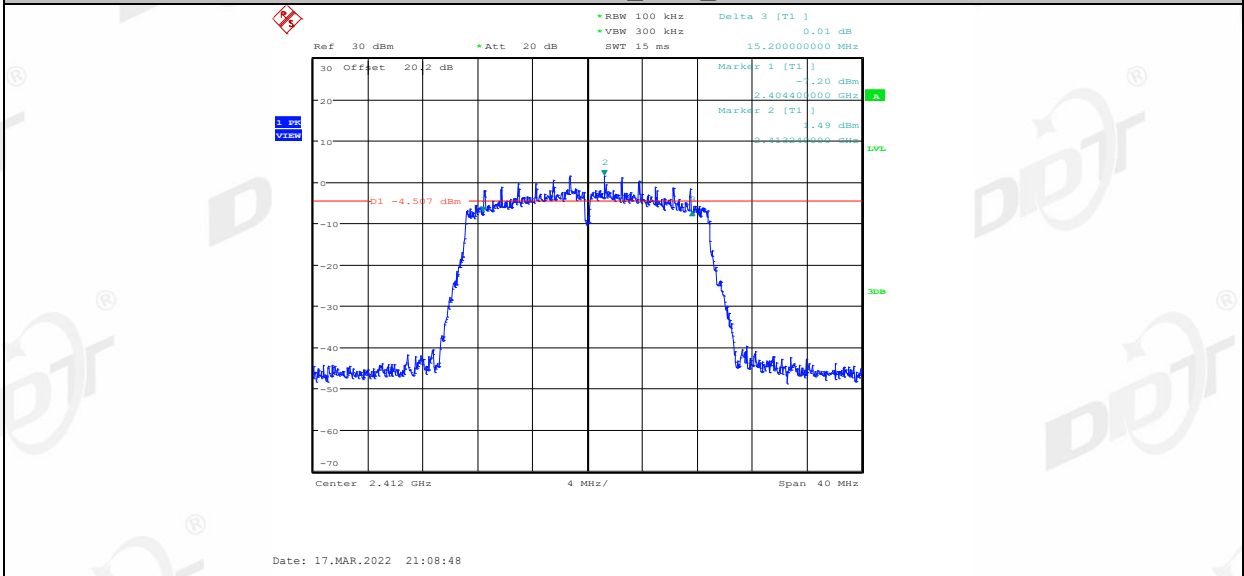
11G\_Ant1\_2462



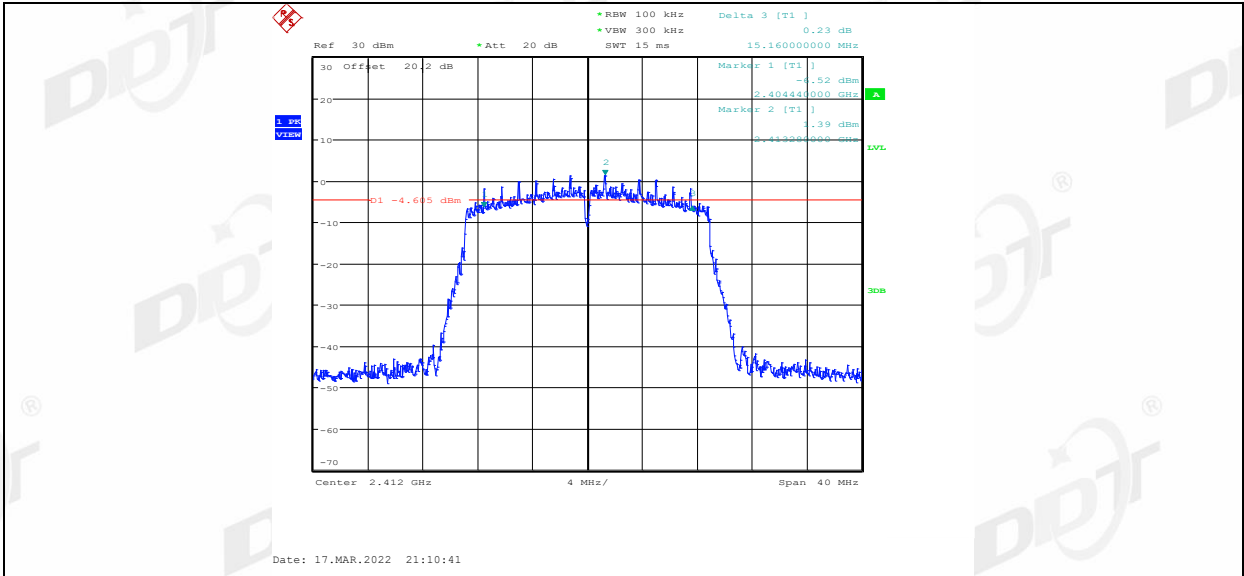
11G\_Ant2\_2462



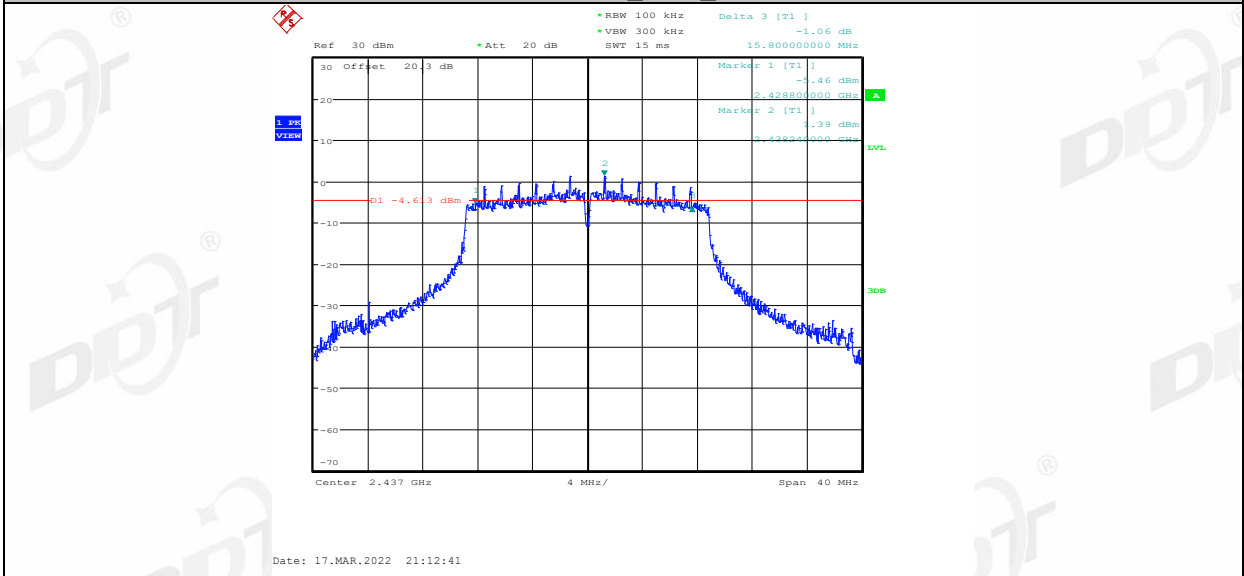
11N20MIMO\_Ant1\_2412



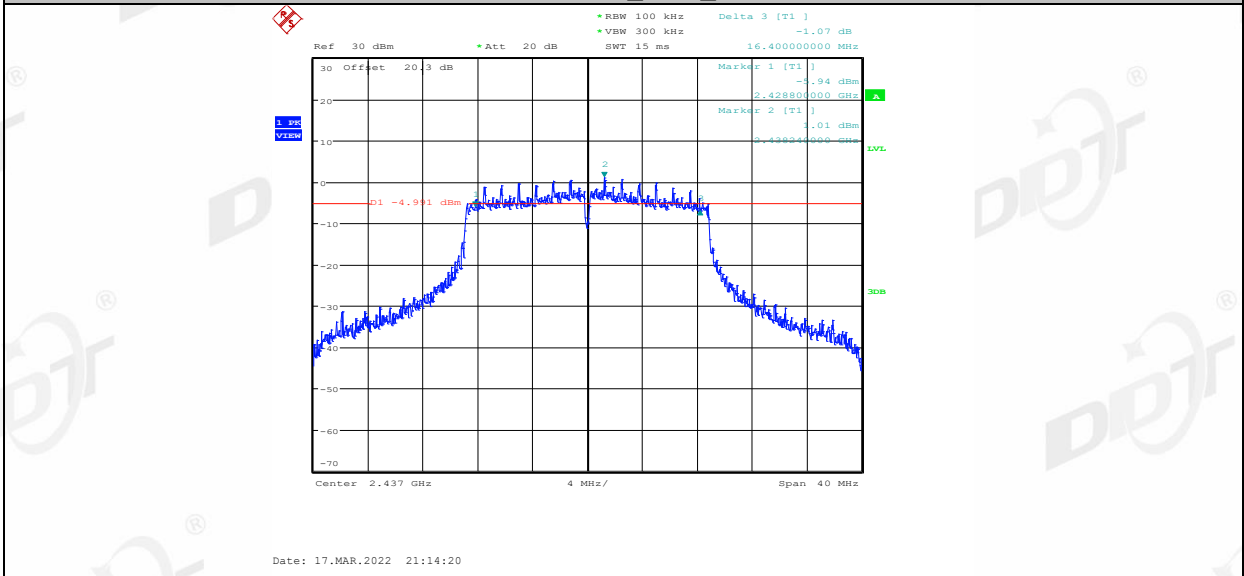
11N20MIMO\_Ant2\_2412



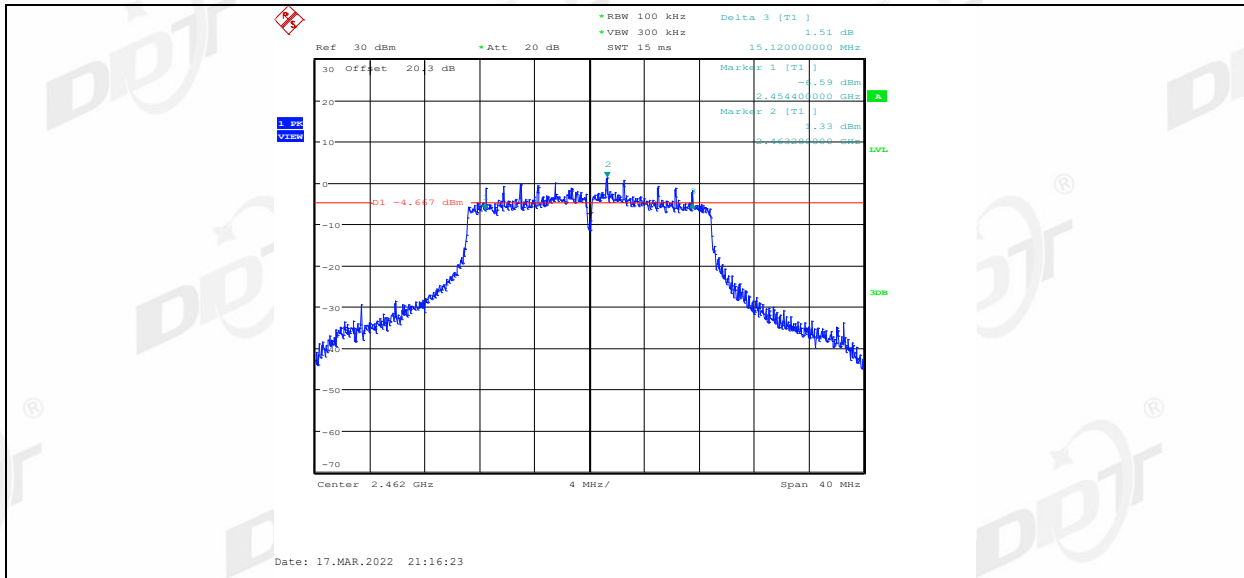
11N20MIMO\_Ant1\_2437



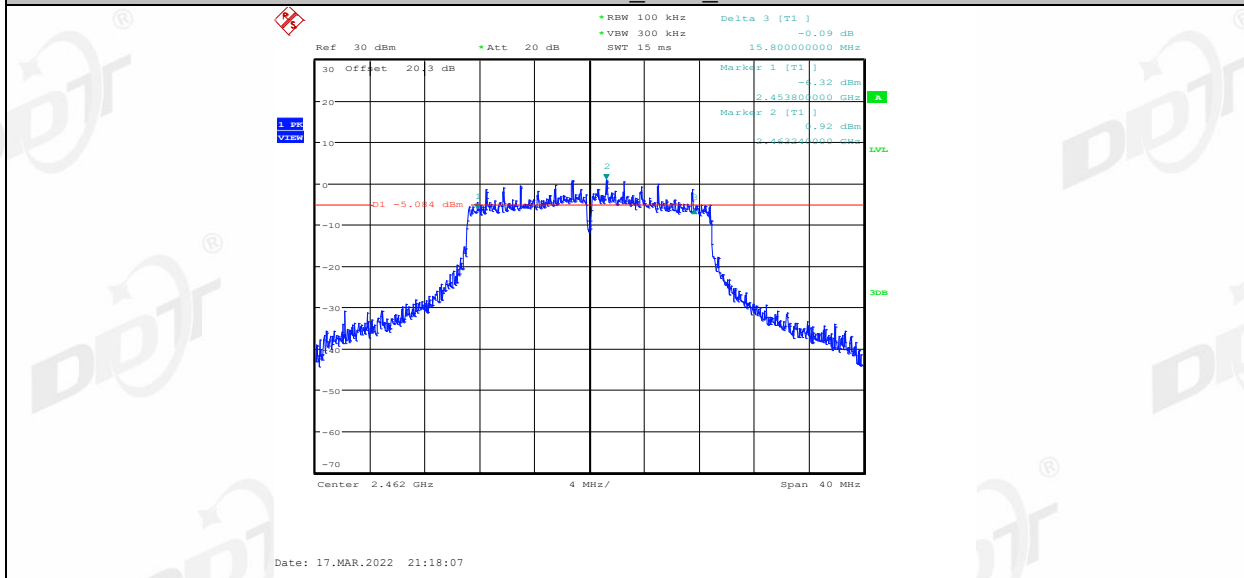
11N20MIMO\_Ant2\_2437



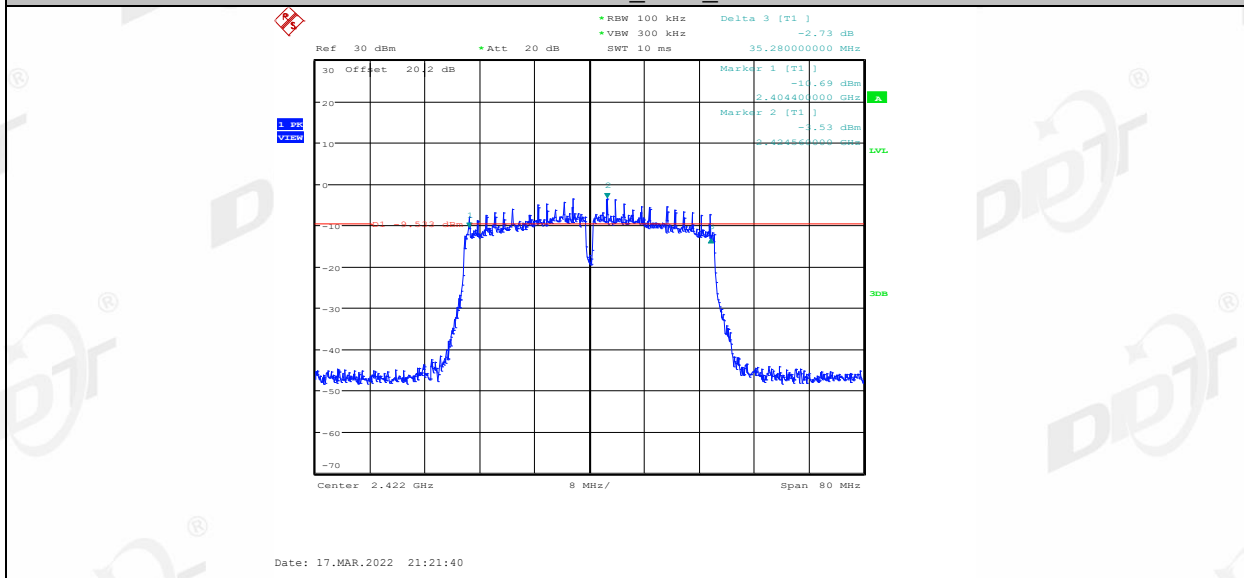
11N20MIMO\_Ant1\_2462



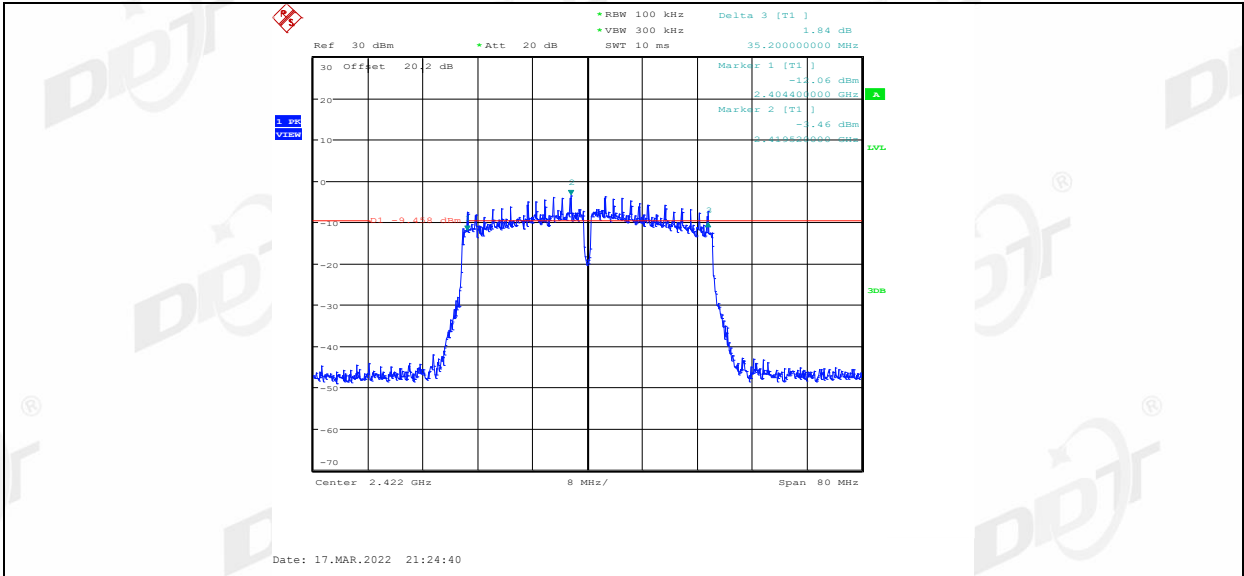
11N20MIMO\_Ant2\_2462



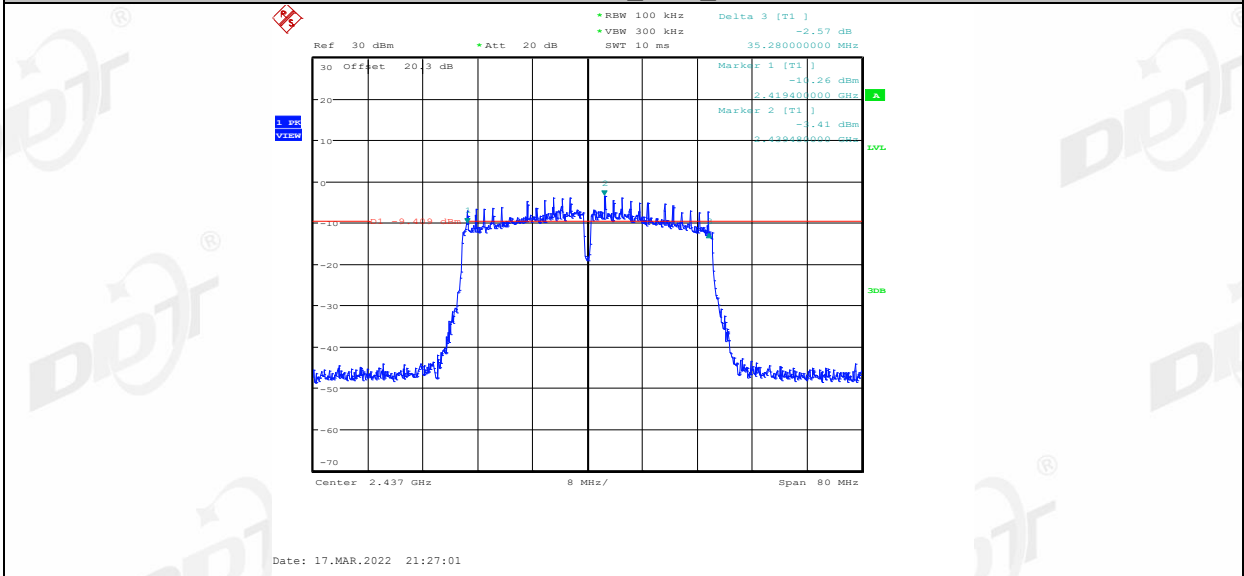
11N40MIMO\_Ant1\_2422



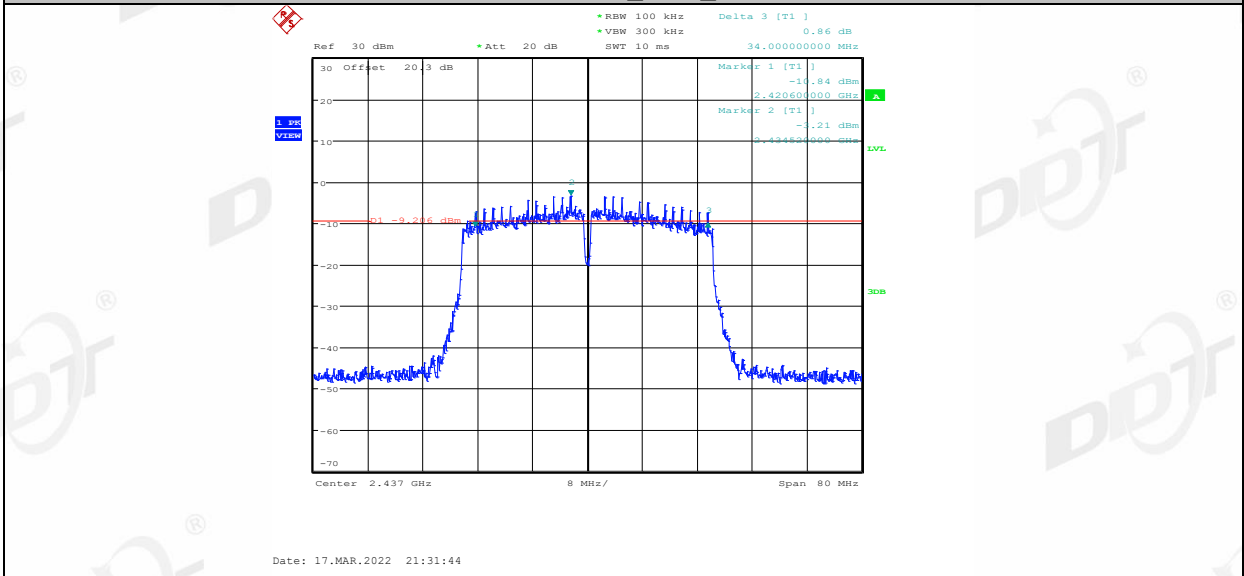
11N40MIMO\_Ant2\_2422



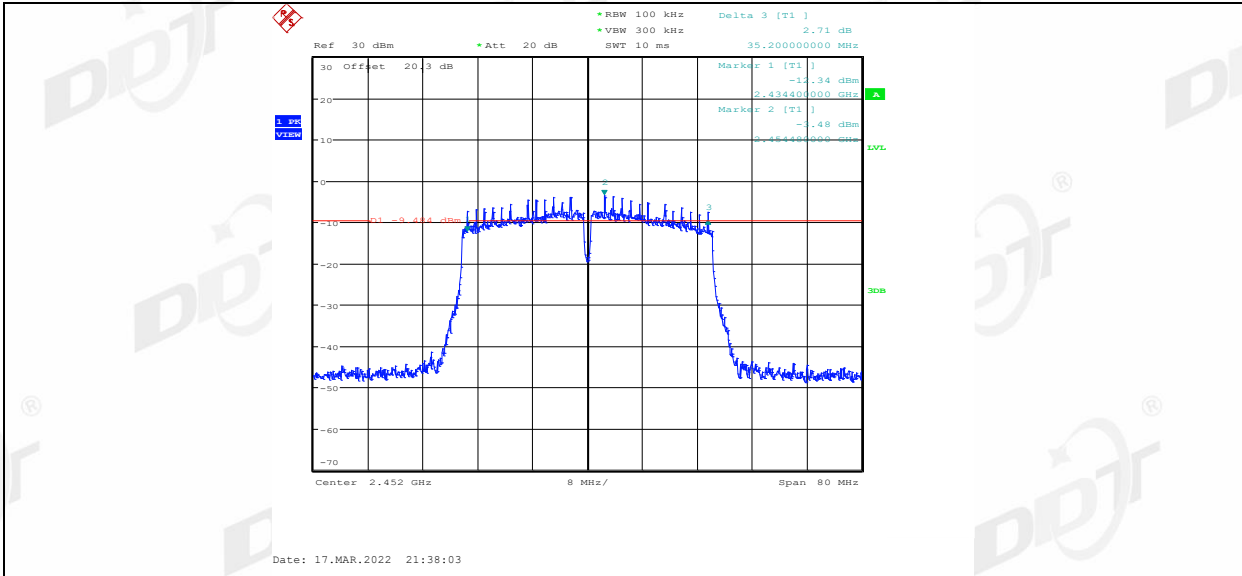
11N40MIMO\_Ant1\_2437



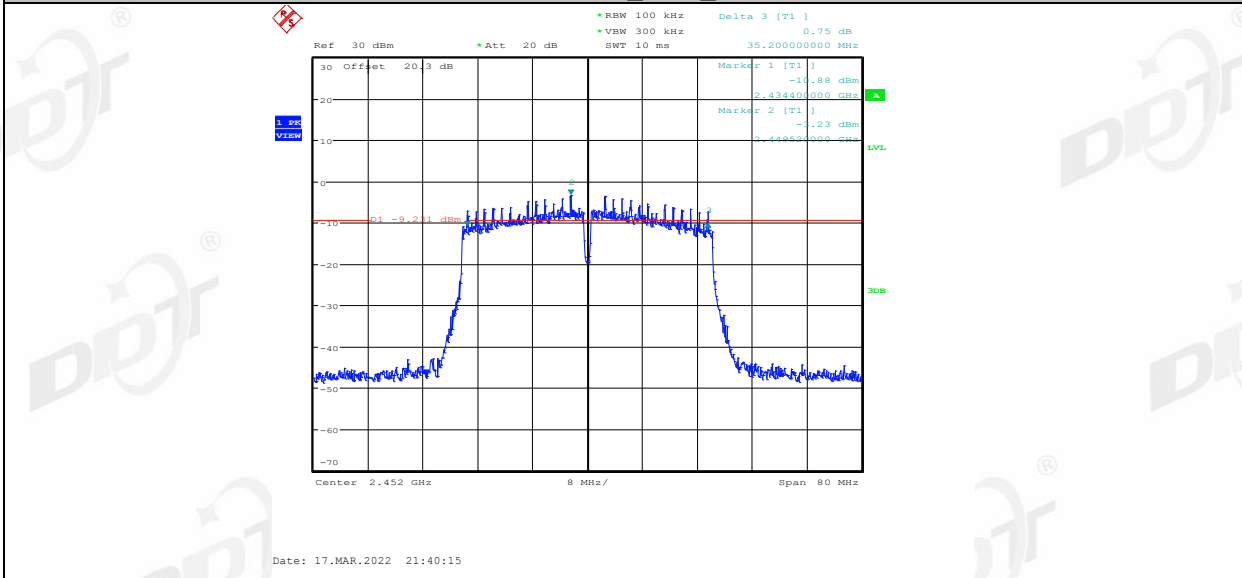
11N40MIMO\_Ant2\_2437



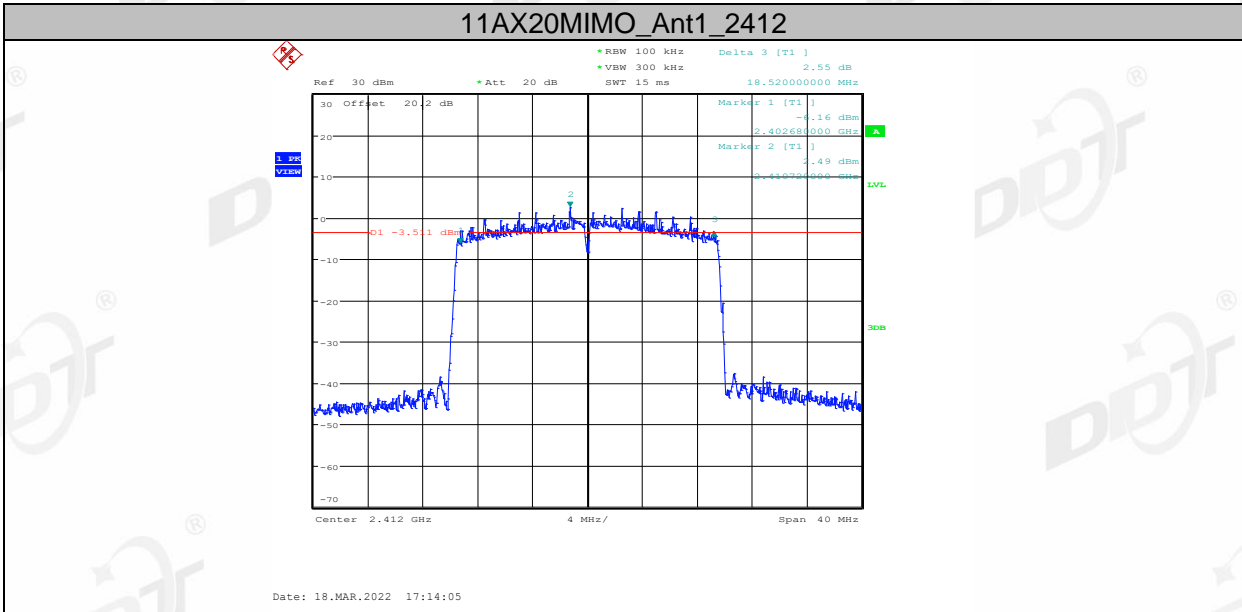
11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

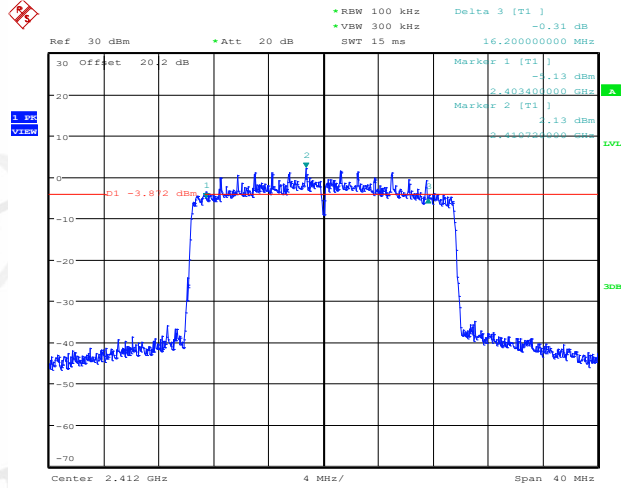


11AX20MIMO\_Ant1\_2412



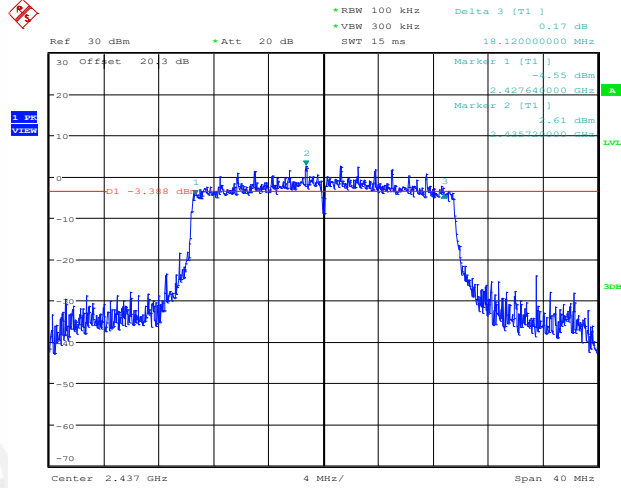


11AX20MIMO\_Ant2\_2412



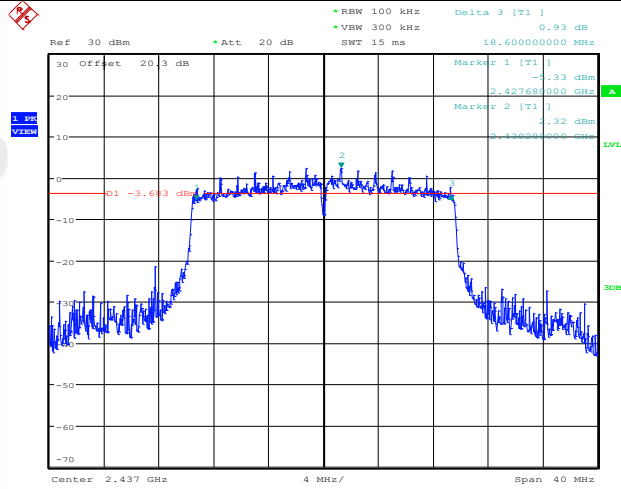
Date: 18.MAR.2022 17:15:49

11AX20MIMO\_Ant1\_2437



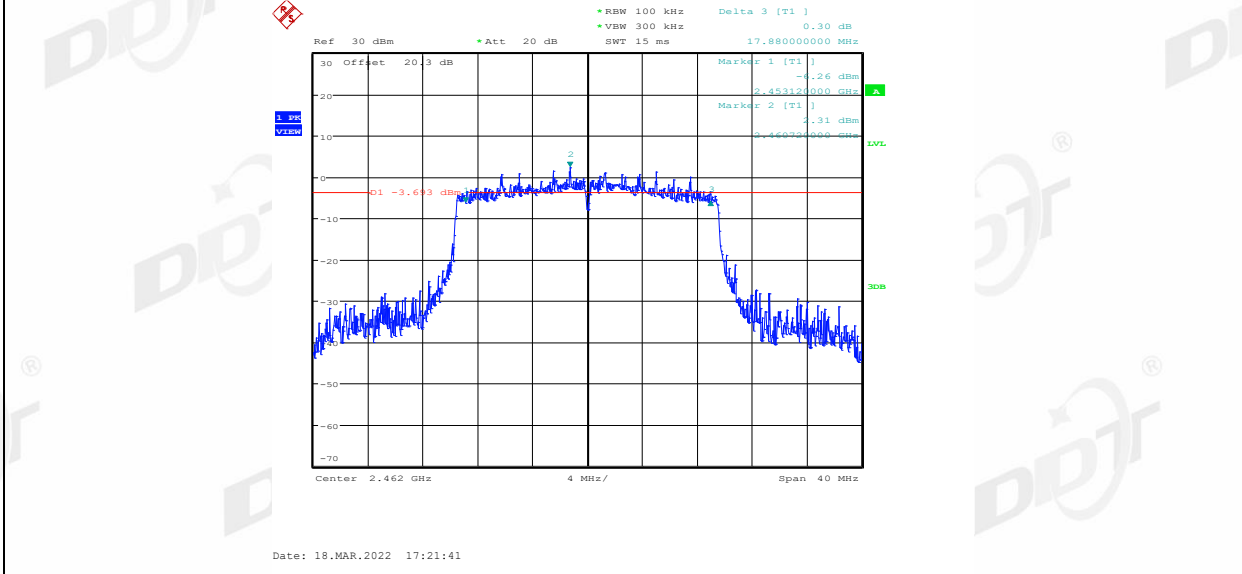
Date: 18.MAR.2022 17:17:55

11AX20MIMO\_Ant2\_2437

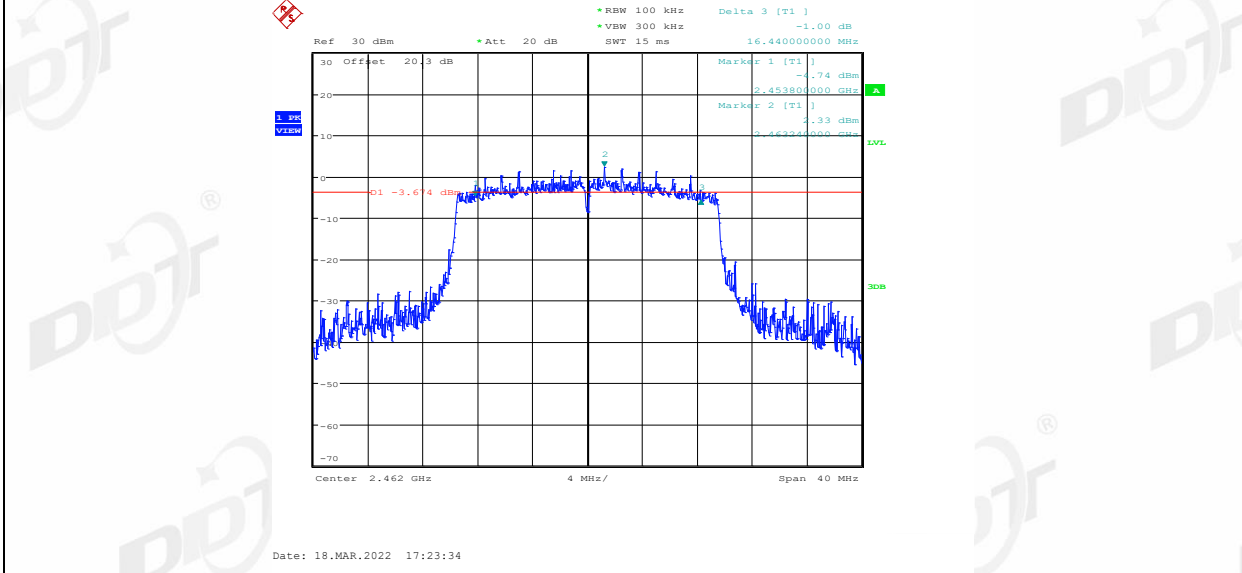


Date: 18.MAR.2022 17:19:36

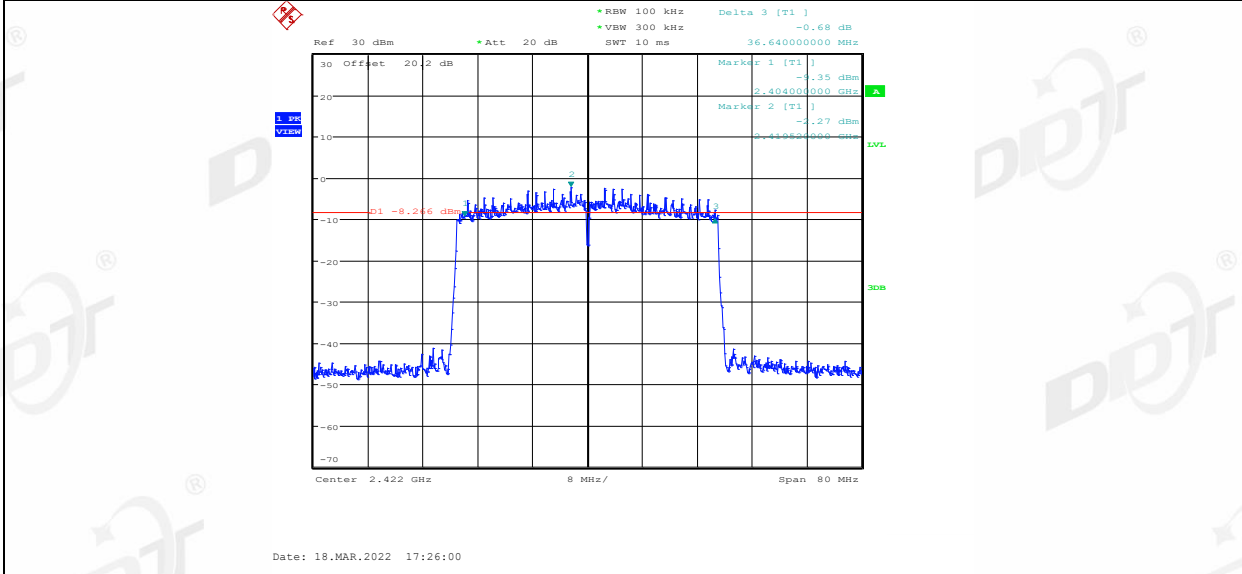
### 11AX20MIMO\_Ant1\_2462



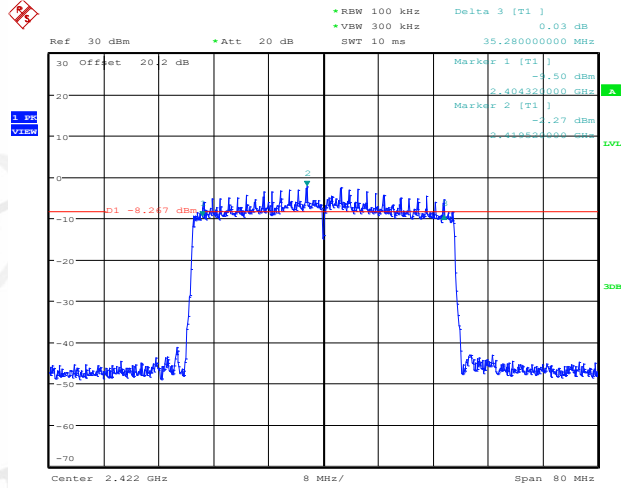
### 11AX20MIMO\_Ant2\_2462



### 11AX40MIMO\_Ant1\_2422

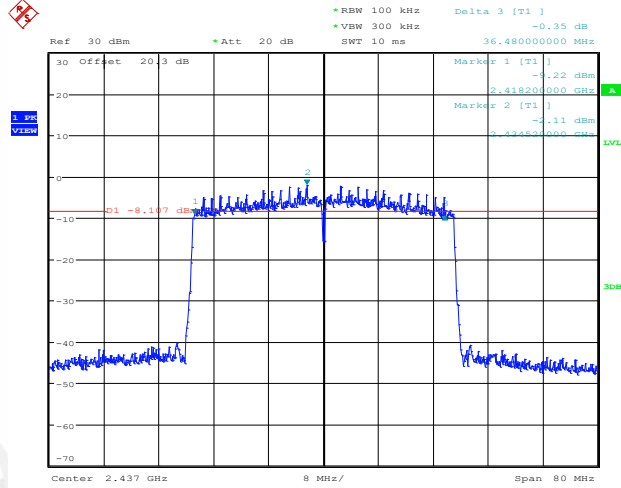


### 11AX40MIMO\_Ant2\_2422



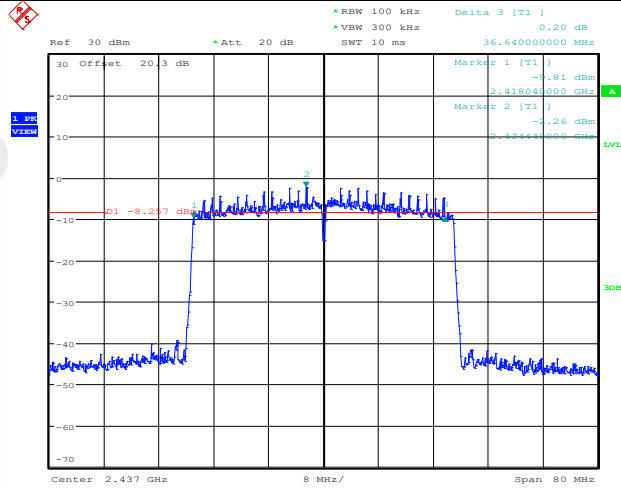
Date: 18.MAR.2022 17:28:01

### 11AX40MIMO\_Ant1\_2437



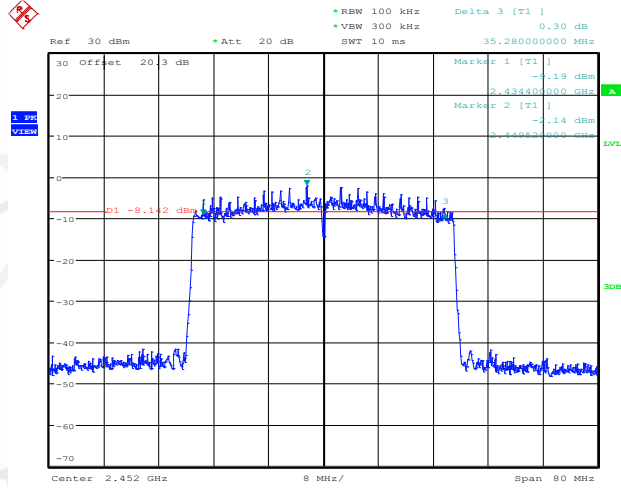
Date: 18.MAR.2022 17:31:23

### 11AX40MIMO\_Ant2\_2437



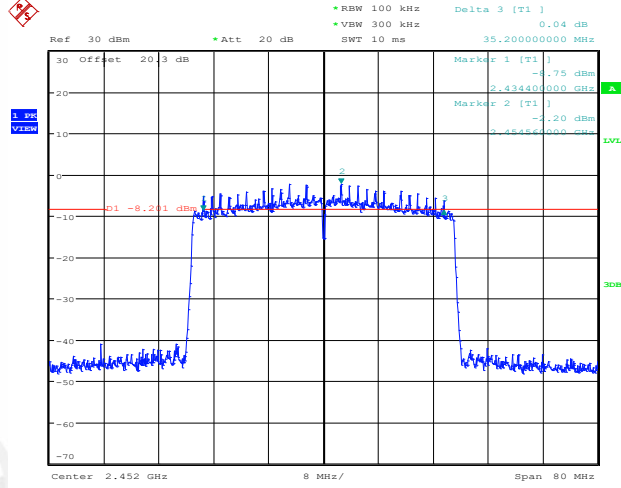
Date: 18.MAR.2022 17:33:21

### 11AX40MIMO\_Ant1\_2452



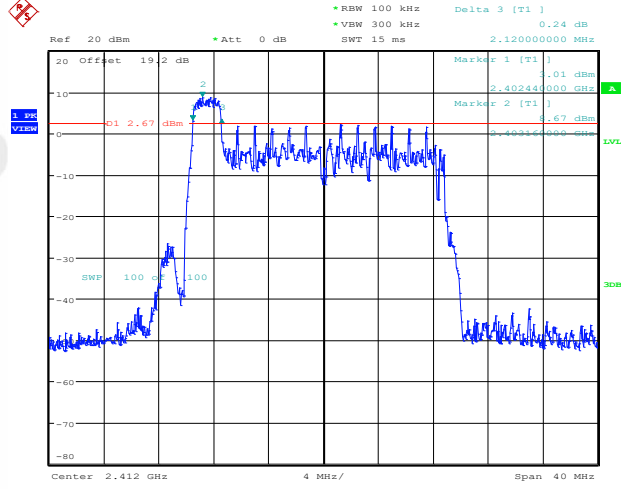
Date: 18.MAR.2022 17:36:50

### 11AX40MIMO\_Ant2\_2452



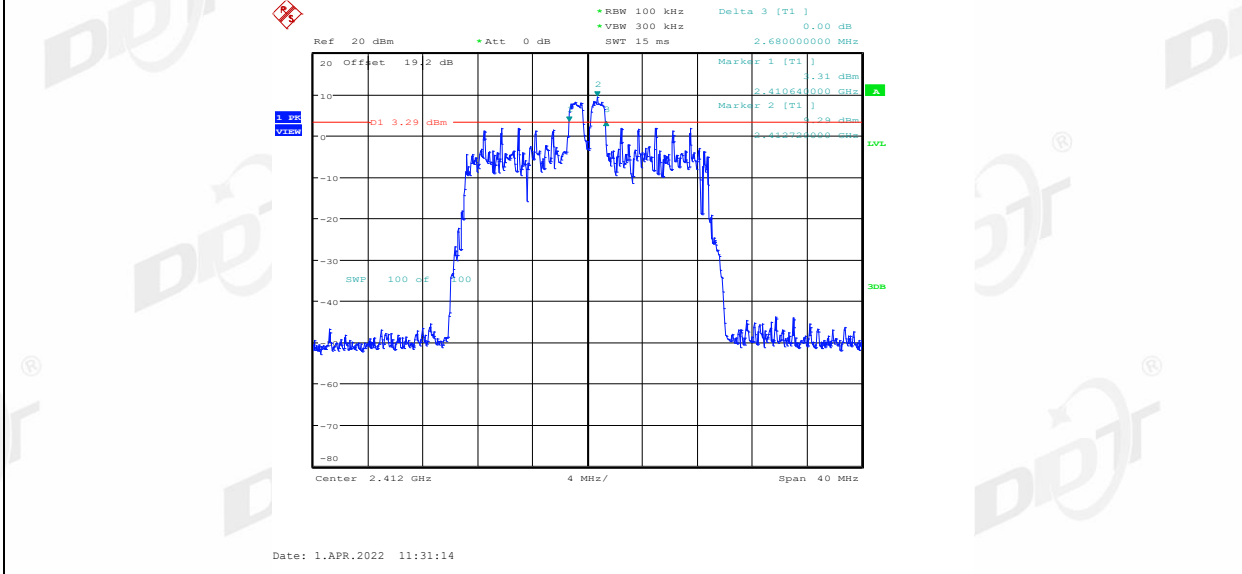
Date: 18.MAR.2022 17:38:52

### 11AX20MIMO\_Ant1\_2412\_26Tone\_RU0

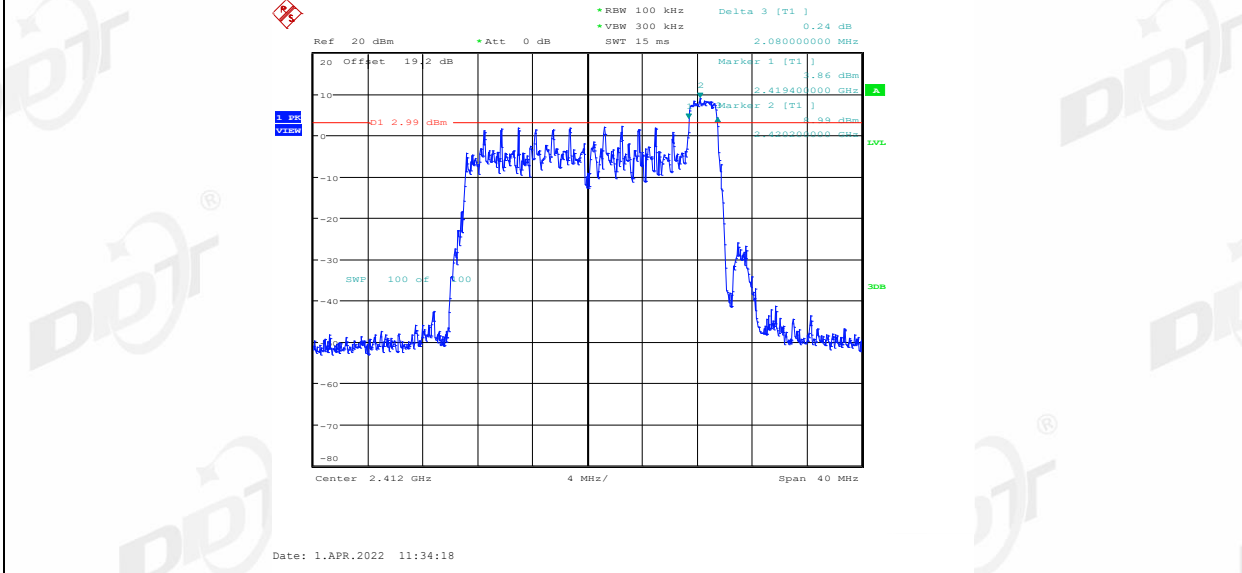


Date: 1.APR.2022 12:13:07

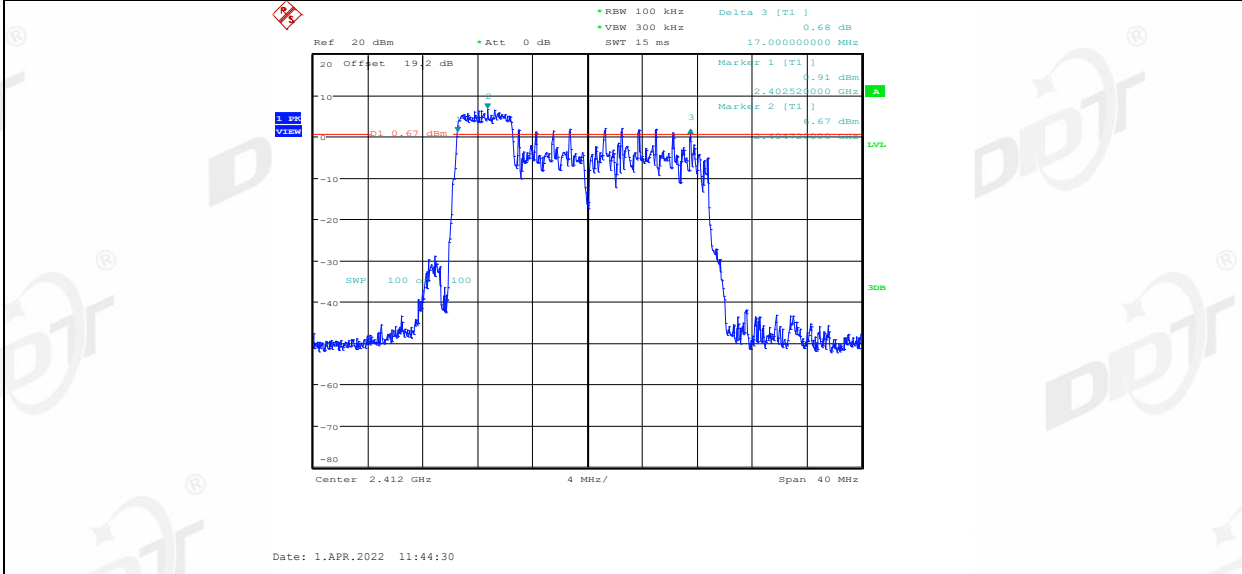
11AX20MIMO\_Ant1\_2412\_26Tone\_RU4



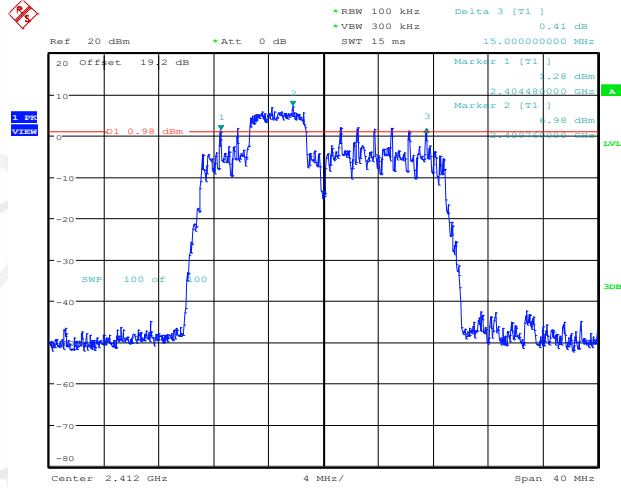
11AX20MIMO\_Ant1\_2412\_26Tone\_RU8



11AX20MIMO\_Ant1\_2412\_52Tone\_RU37

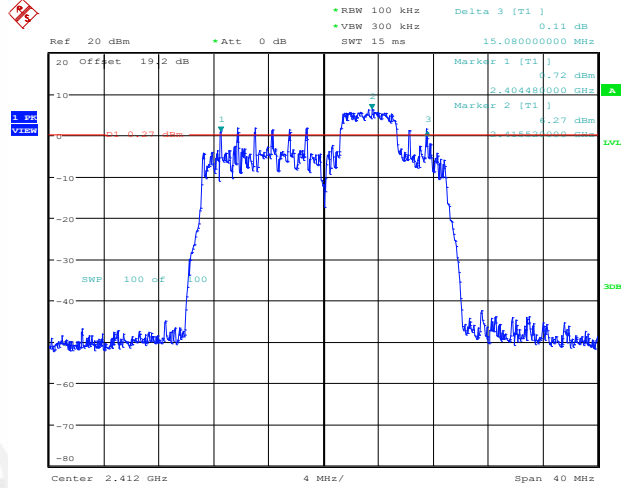


11AX20MIMO\_Ant1\_2412\_52Tone\_RU38



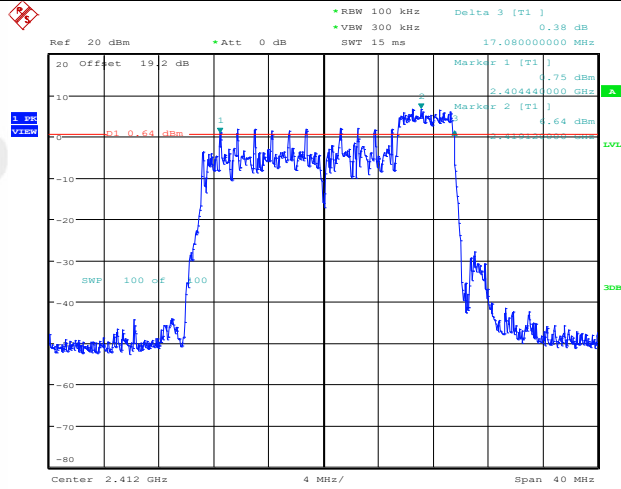
Date: 1.APR.2022 11:48:26

11AX20MIMO\_Ant1\_2412\_52Tone\_RU39



Date: 1.APR.2022 12:07:29

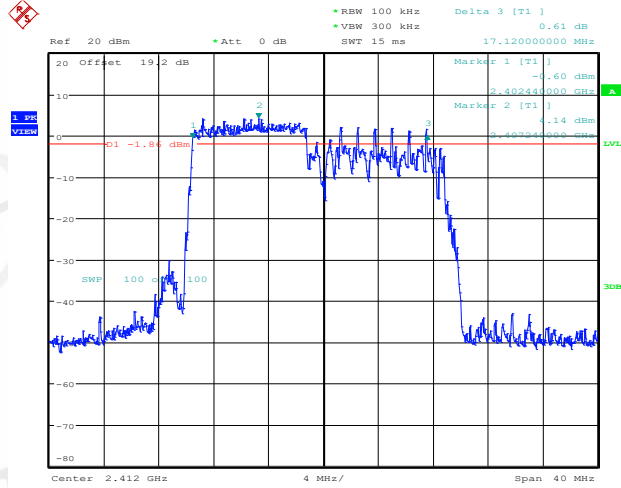
11AX20MIMO\_Ant1\_2412\_52Tone\_RU40



Date: 1.APR.2022 12:24:26

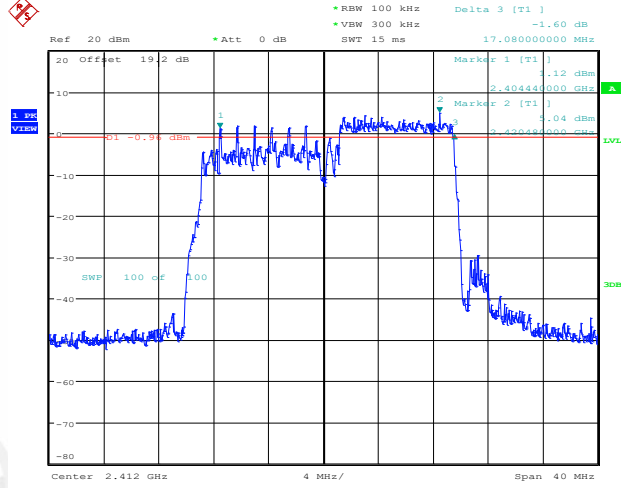


11AX20MIMO\_Ant1\_2412\_106Tone\_RU53



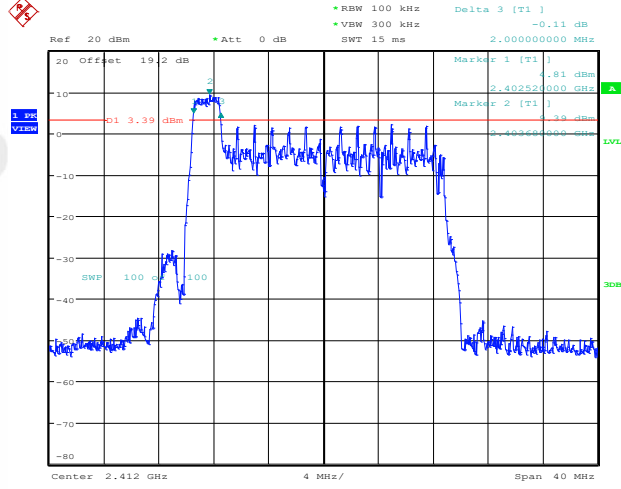
Date: 1.APR.2022 12:26:42

11AX20MIMO\_Ant1\_2412\_106Tone\_RU54



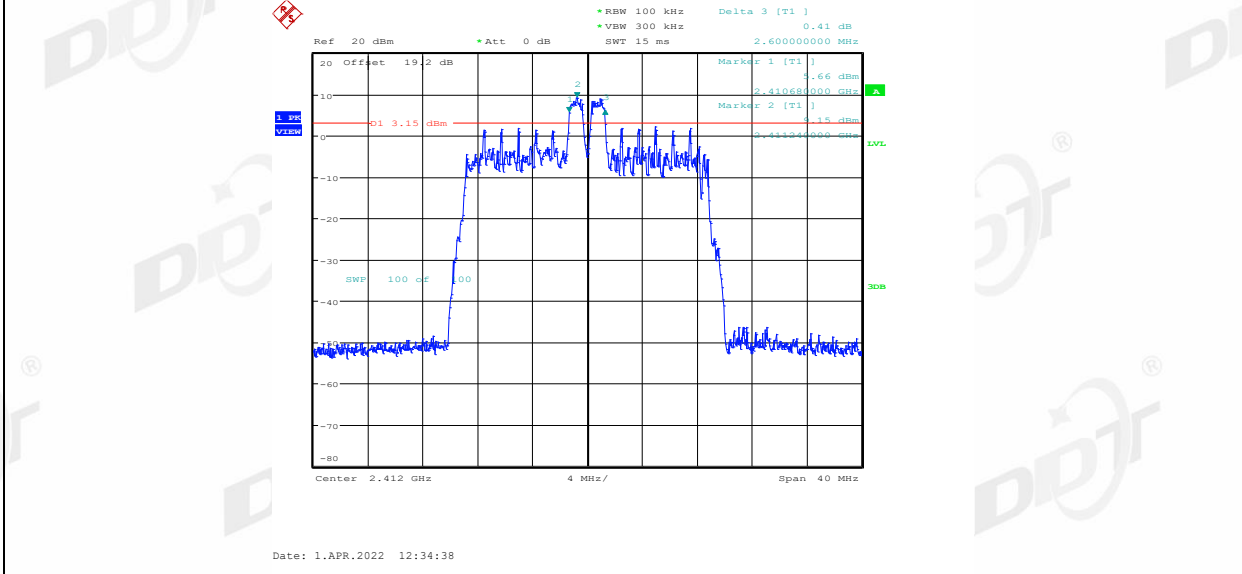
Date: 1.APR.2022 12:29:15

11AX20MIMO\_Ant2\_2412\_26Tone\_RU0

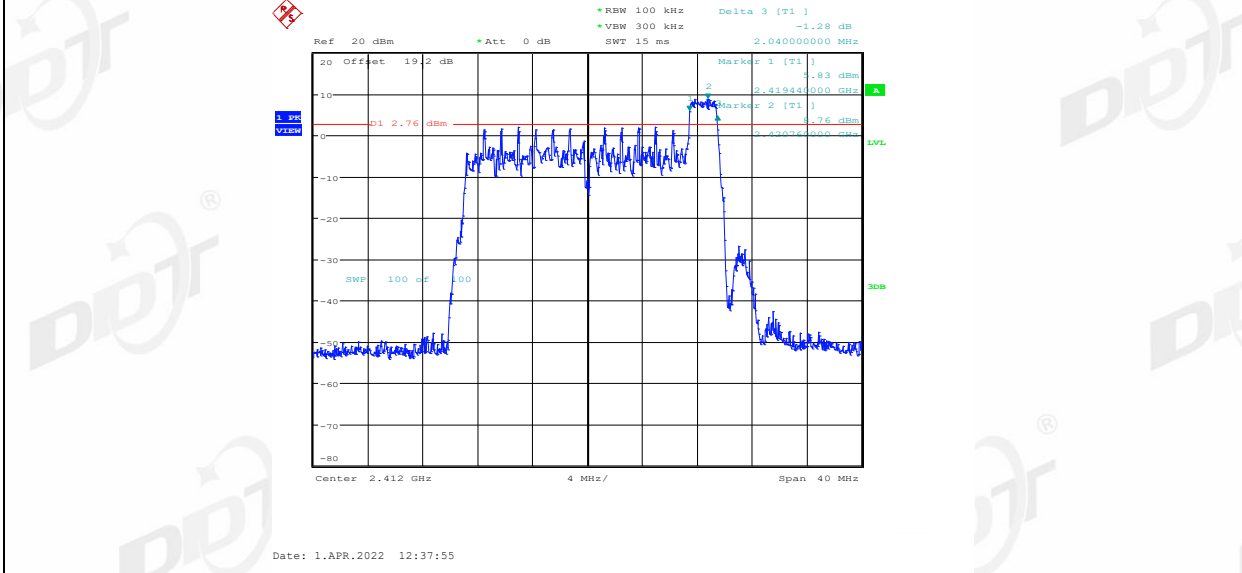


Date: 1.APR.2022 12:31:39

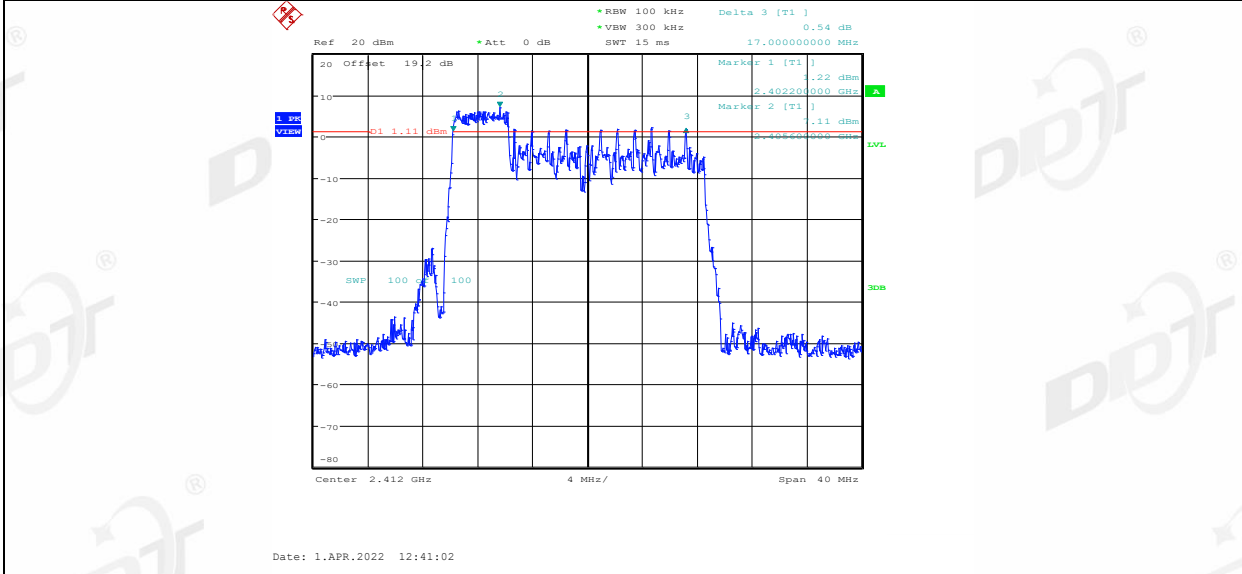
11AX20MIMO\_Ant2\_2412\_26Tone\_RU4



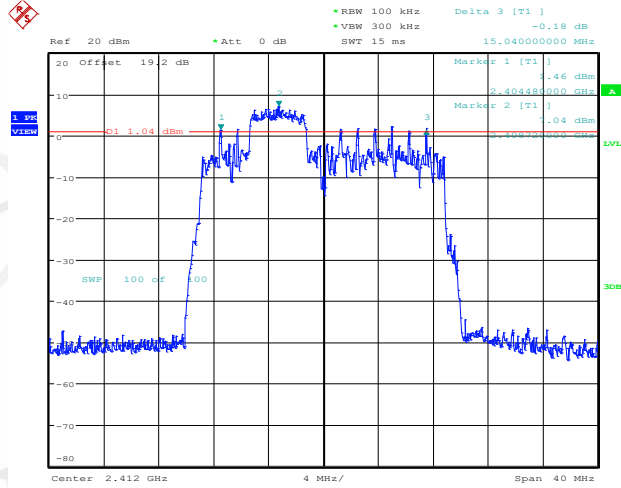
11AX20MIMO\_Ant2\_2412\_26Tone\_RU8



11AX20MIMO\_Ant2\_2412\_52Tone\_RU37

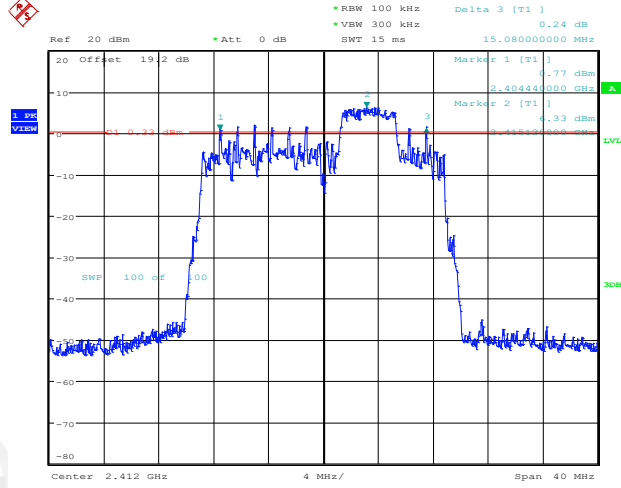


11AX20MIMO\_Ant2\_2412\_52Tone\_RU38



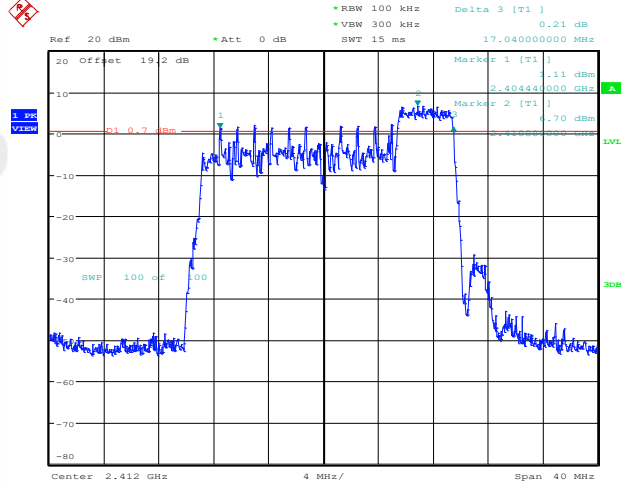
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11AX20MIMO\_Ant2\_2412\_52Tone\_RU39



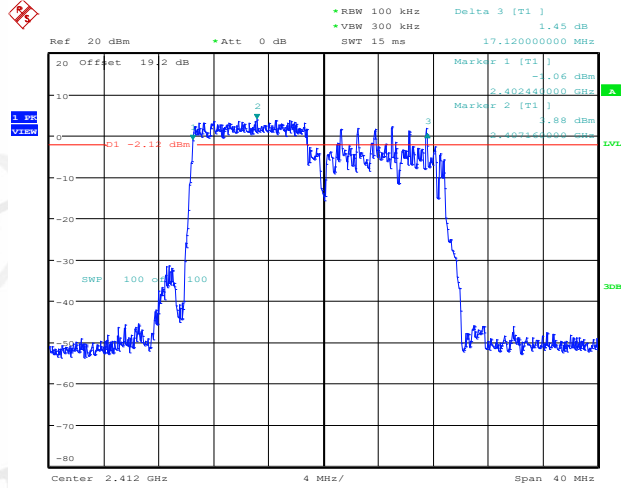
Date: 1.APR.2022 12:46:15

11AX20MIMO\_Ant2\_2412\_52Tone\_RU40



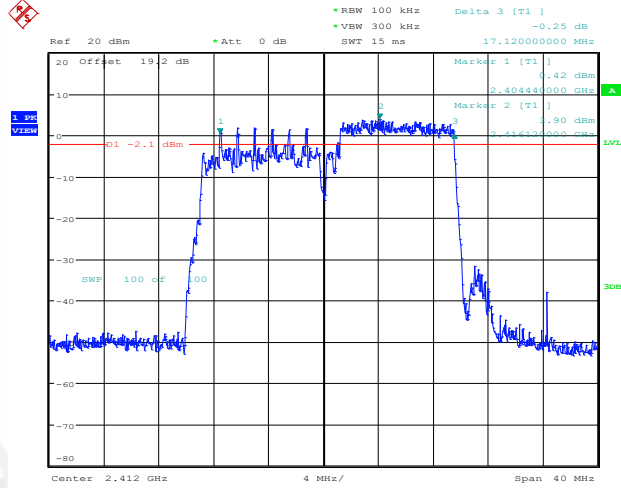
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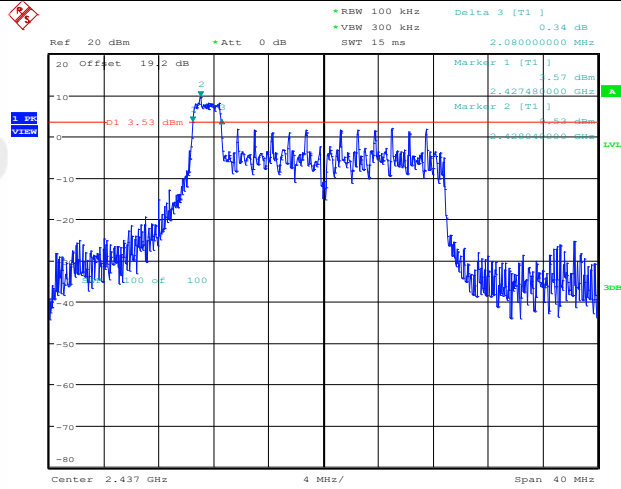
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11AX20MIMO\_Ant2\_2412\_106Tone\_RU54



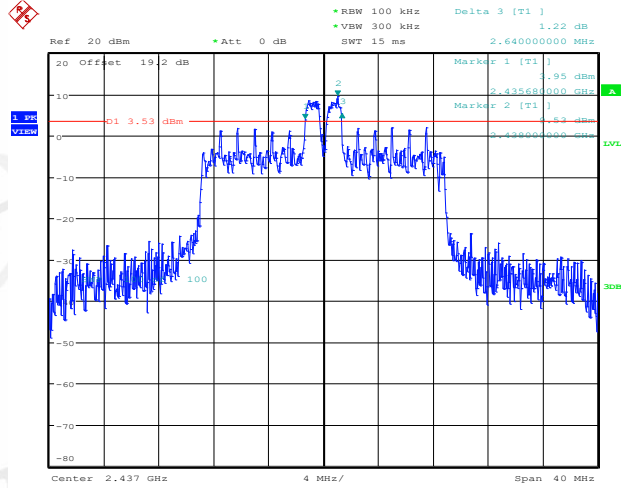
Date: 1.APR.2022 14:44:15

11AX20MIMO\_Ant1\_2437\_26Tone\_RU0



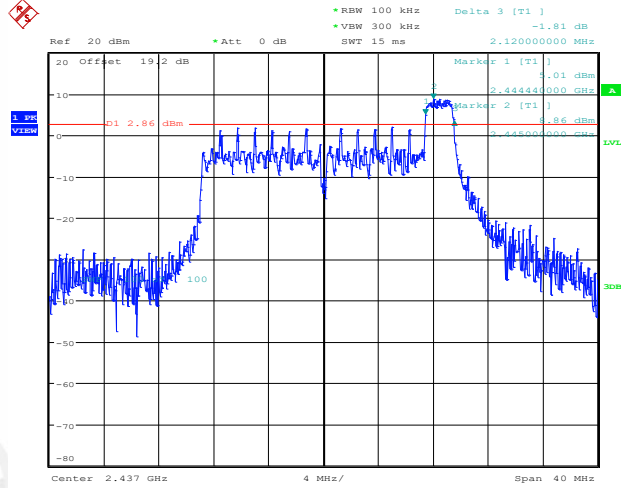
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11AX20MIMO\_Ant1\_2437\_26Tone\_RU4



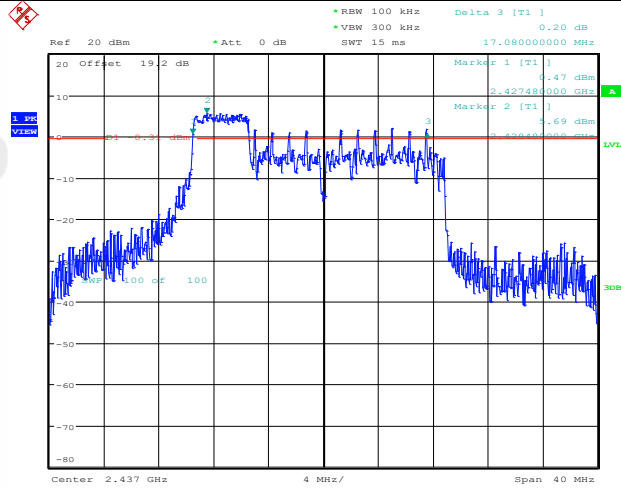
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11AX20MIMO\_Ant1\_2437\_26Tone\_RU8



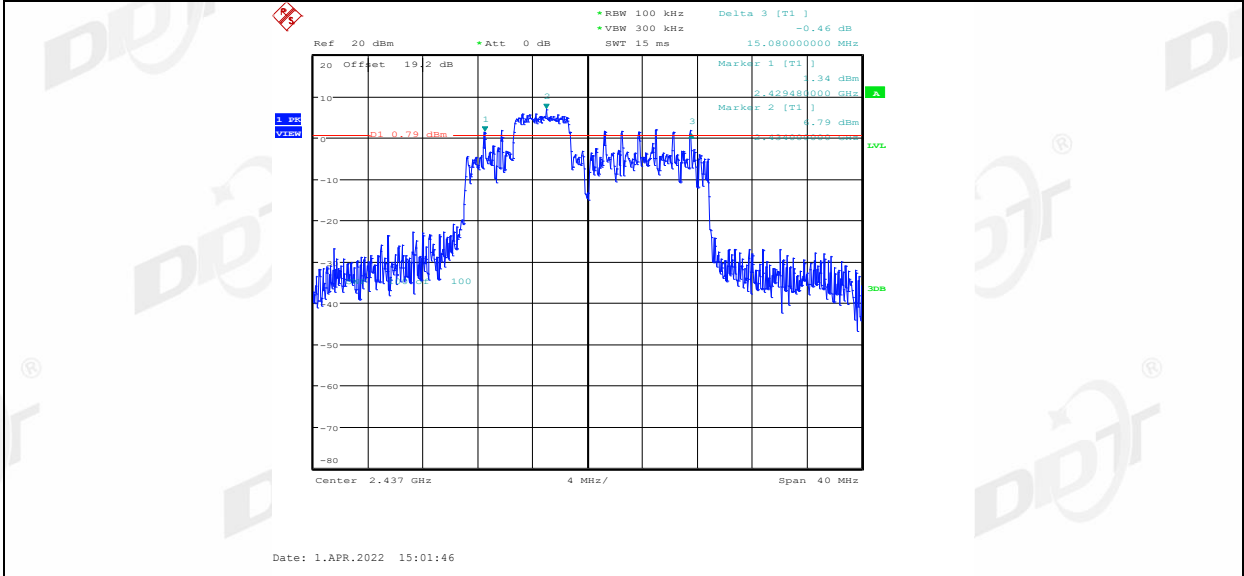
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11AX20MIMO\_Ant1\_2437\_52Tone\_RU37

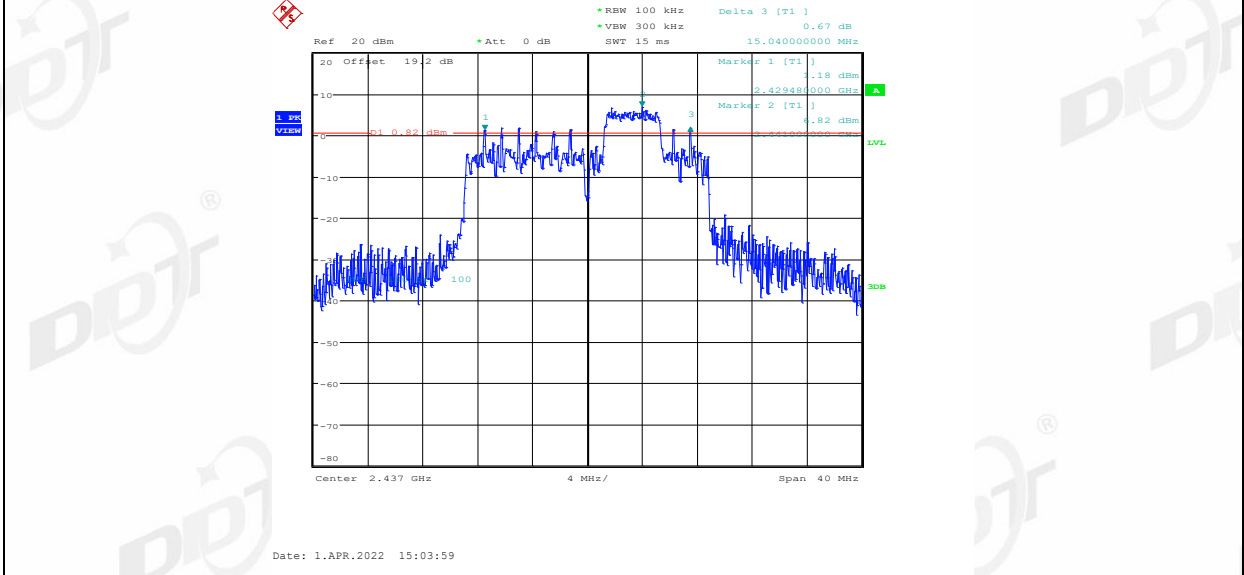


Date: 1.APR.2022 14:55:29

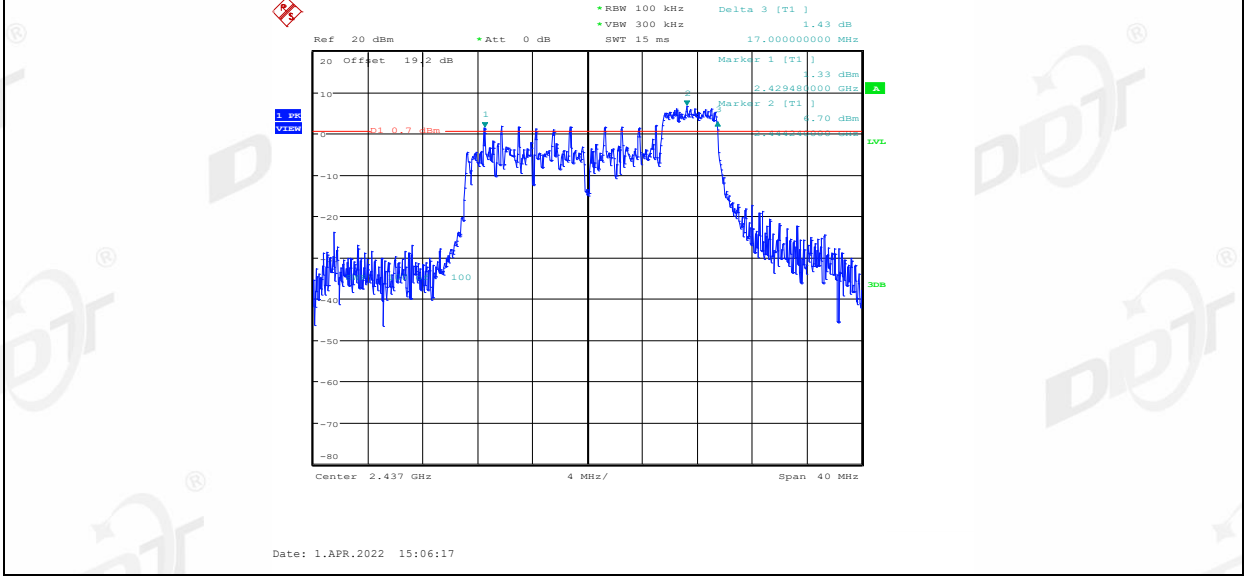
11AX20MIMO\_Ant1\_2437\_52Tone\_RU38



11AX20MIMO\_Ant1\_2437\_52Tone\_RU39

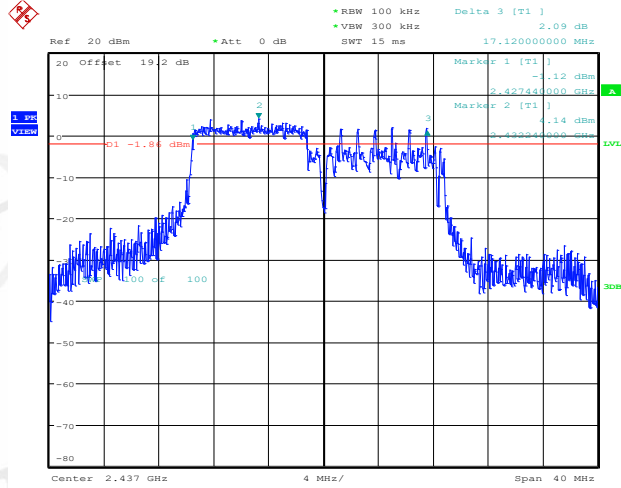


11AX20MIMO\_Ant1\_2437\_52Tone\_RU40



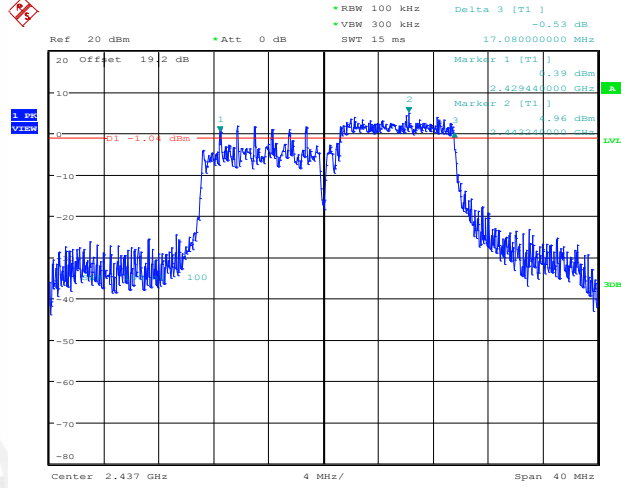


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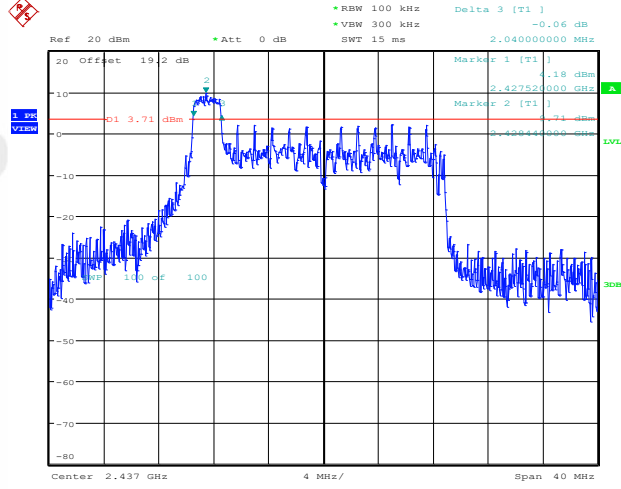
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11AX20MIMO\_Ant1\_2437\_106Tone\_RU54



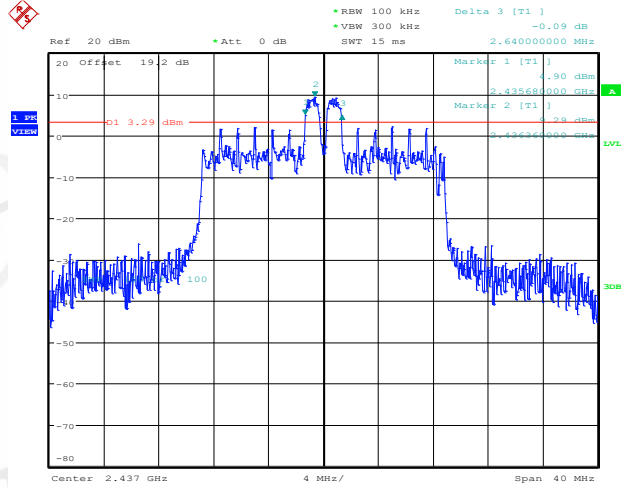
Date: 1.APR.2022 15:11:17

11AX20MIMO\_Ant2\_2437\_26Tone\_RU0



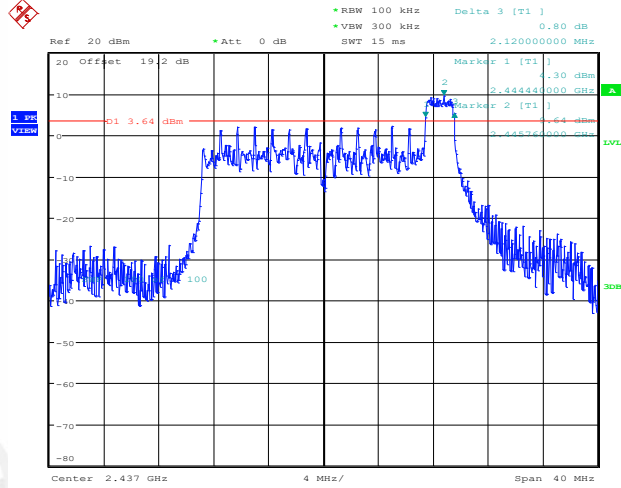
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11AX20MIMO\_Ant2\_2437\_26Tone\_RU4



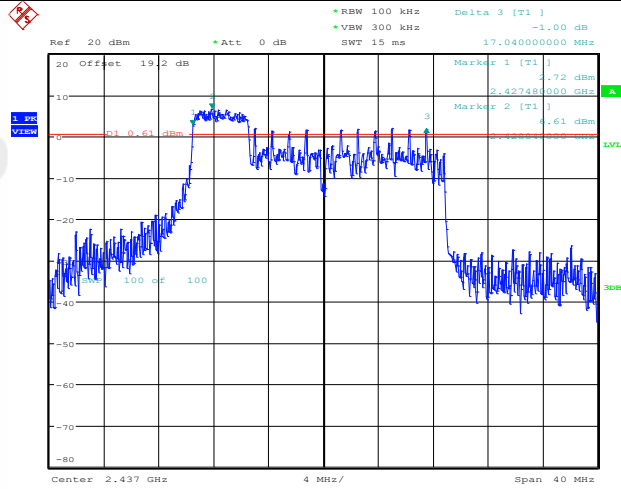
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11AX20MIMO\_Ant2\_2437\_26Tone\_RU8



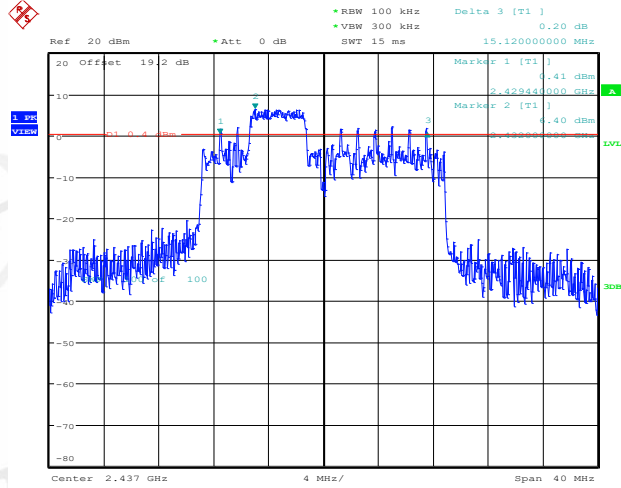
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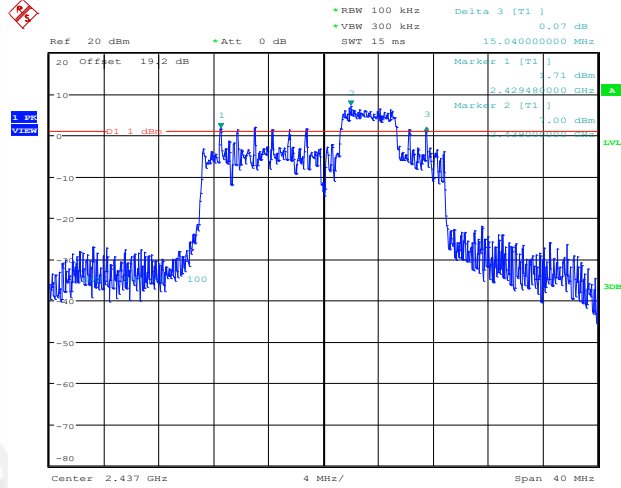
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11AX20MIMO\_Ant2\_2437\_52Tone\_RU38



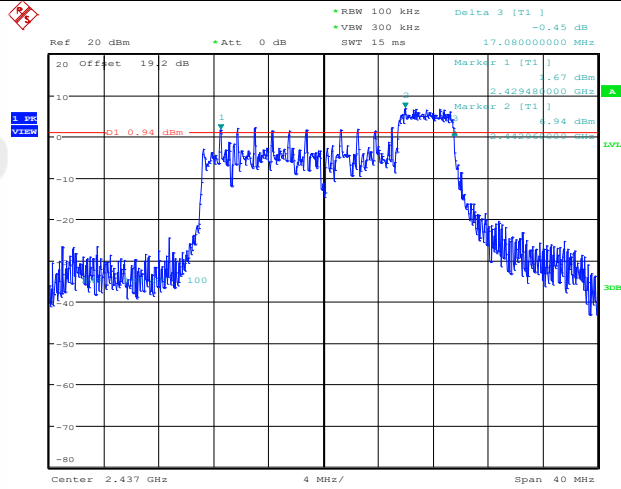
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11AX20MIMO\_Ant2\_2437\_52Tone\_RU39



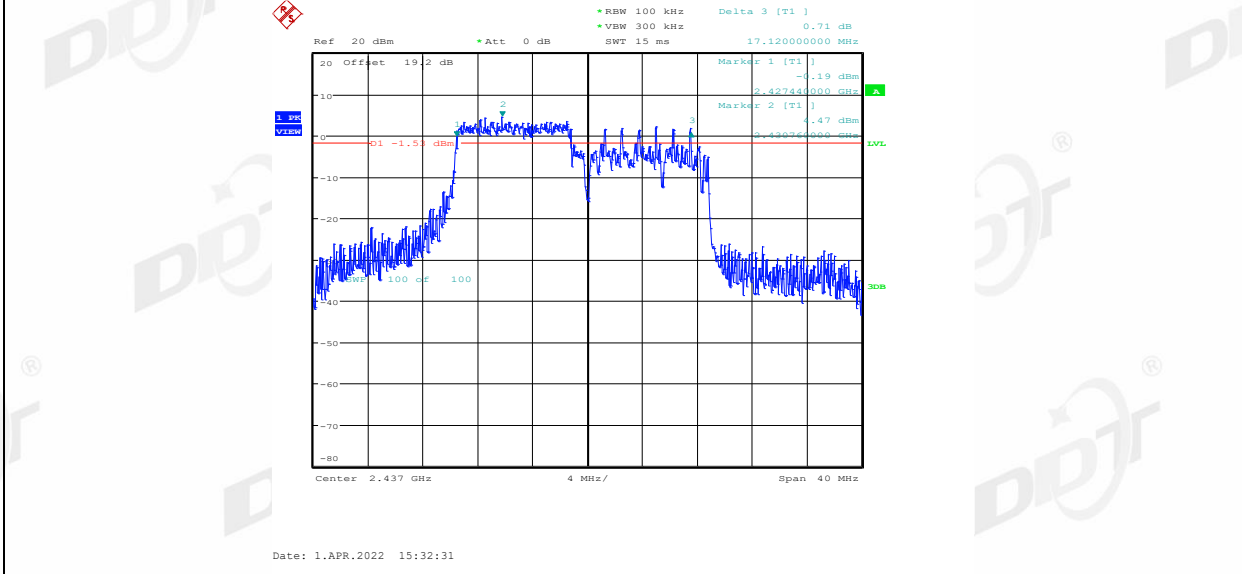
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11AX20MIMO\_Ant2\_2437\_52Tone\_RU40

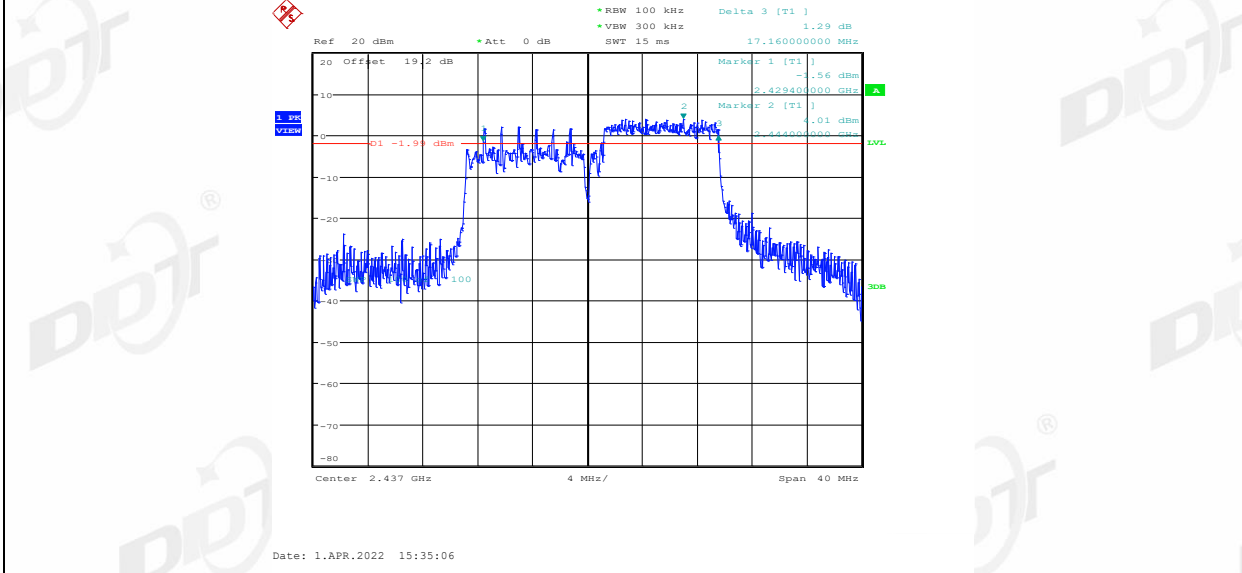


Date: 1.APR.2022 15:30:06

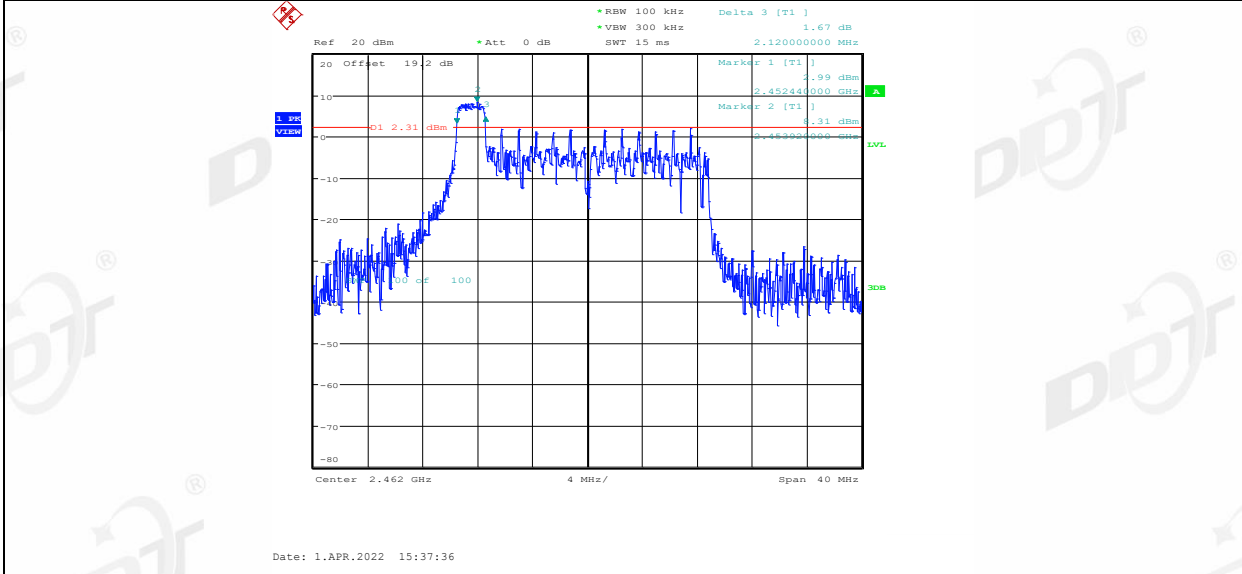
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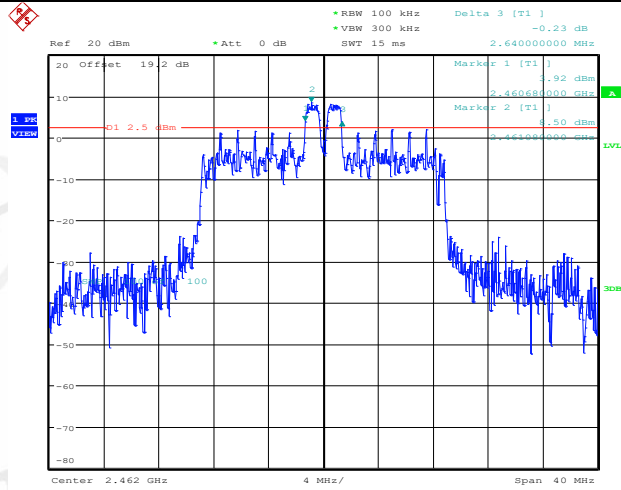
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11AX20MIMO\_Ant1\_2462\_26Tone\_RU0

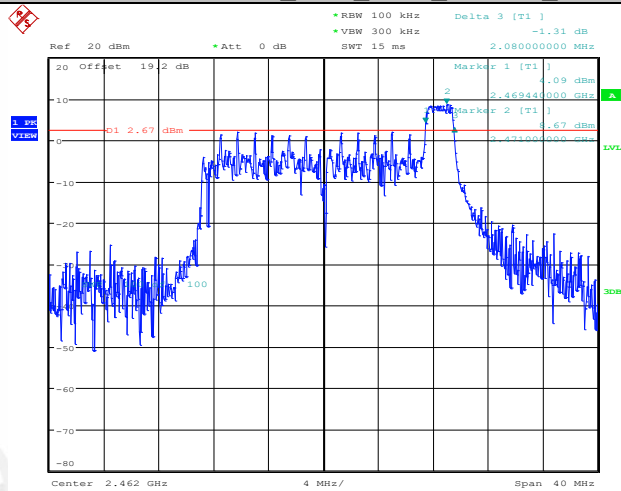


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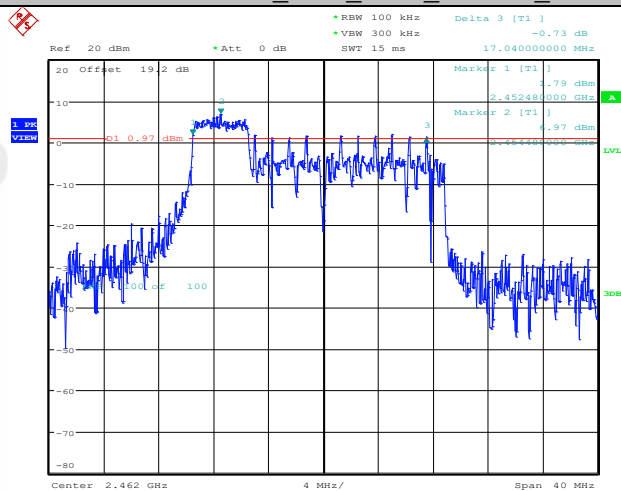
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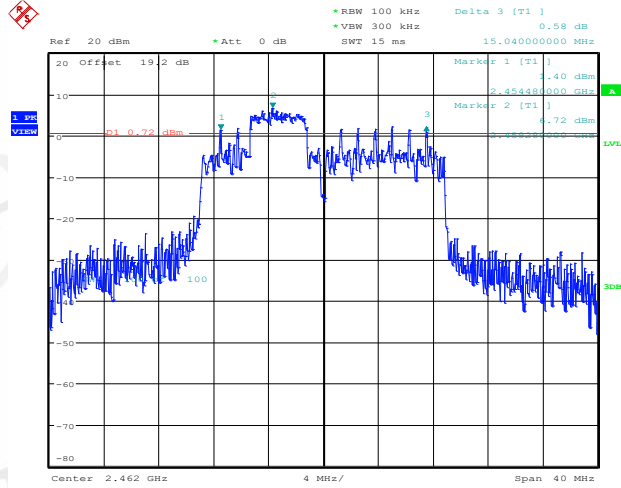
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11AX20MIMO\_Ant1\_2462\_52Tone\_RU37



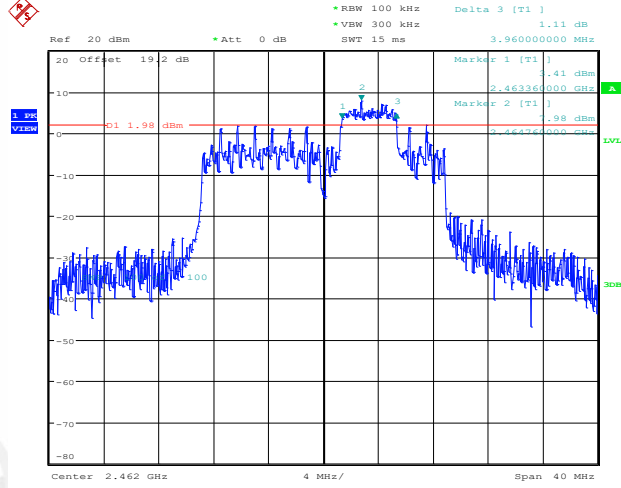
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11AX20MIMO\_Ant1\_2462\_52Tone\_RU38



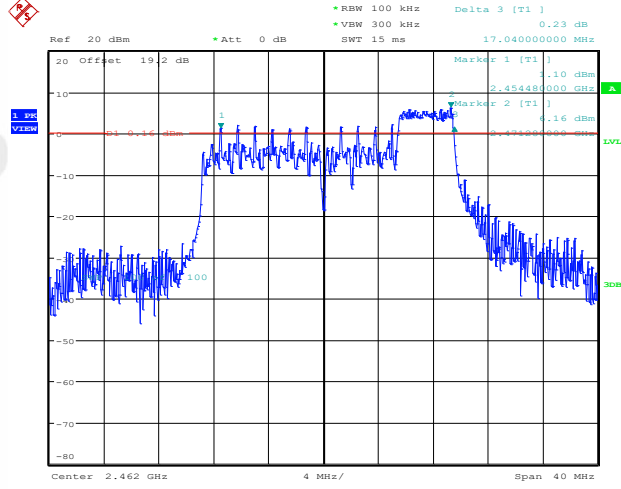
Date: 1.APR.2022 15:48:45

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Date: 1.APR.2022 15:51:02

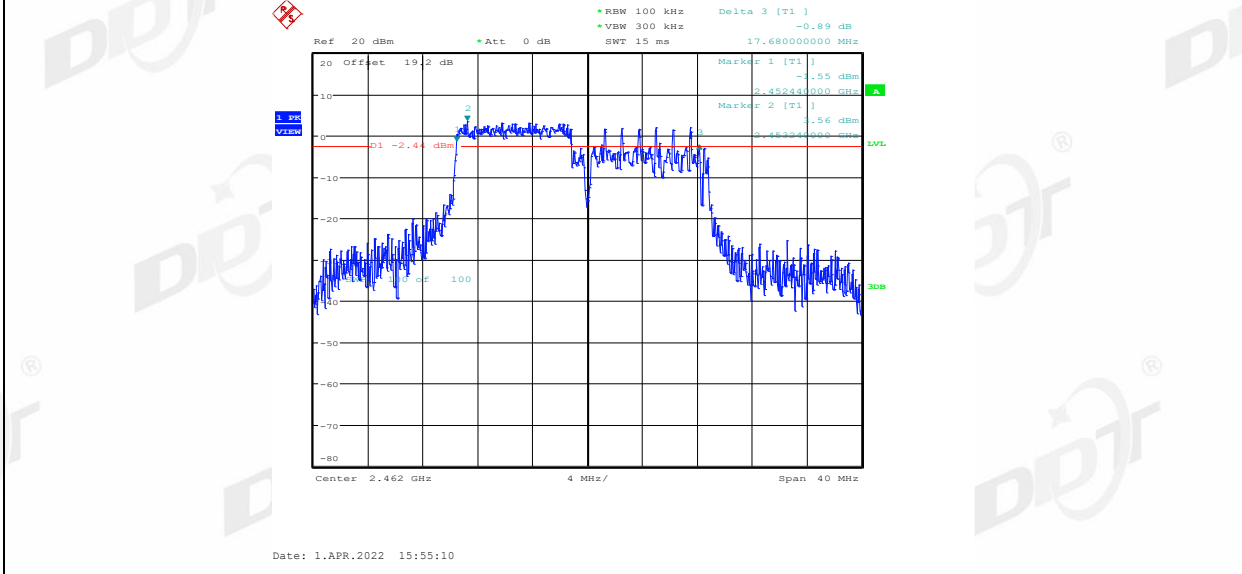
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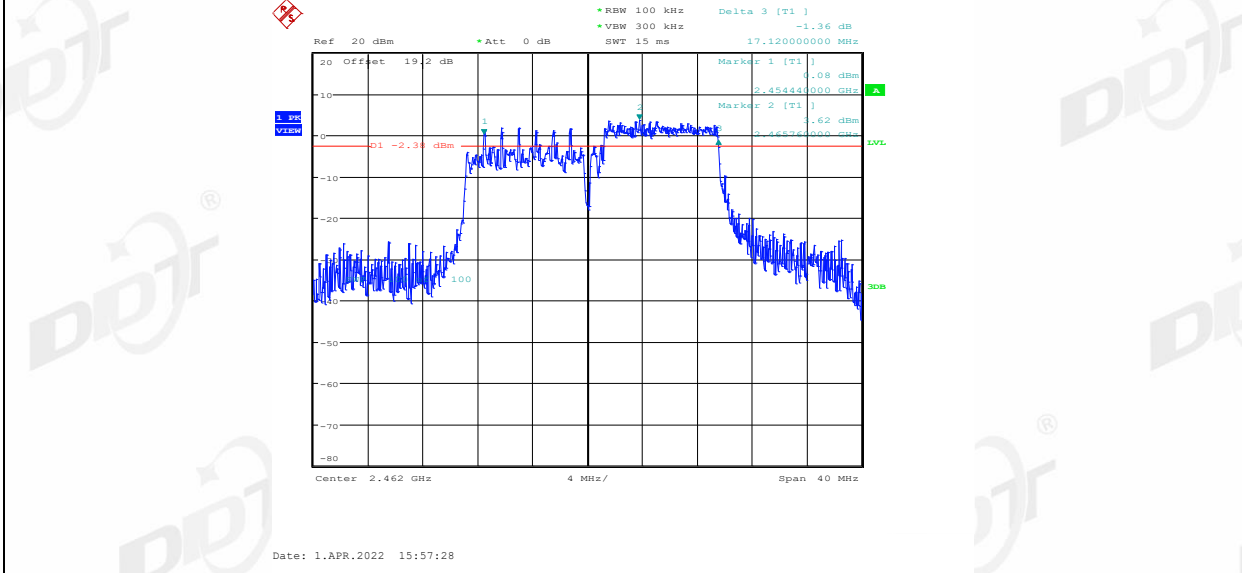
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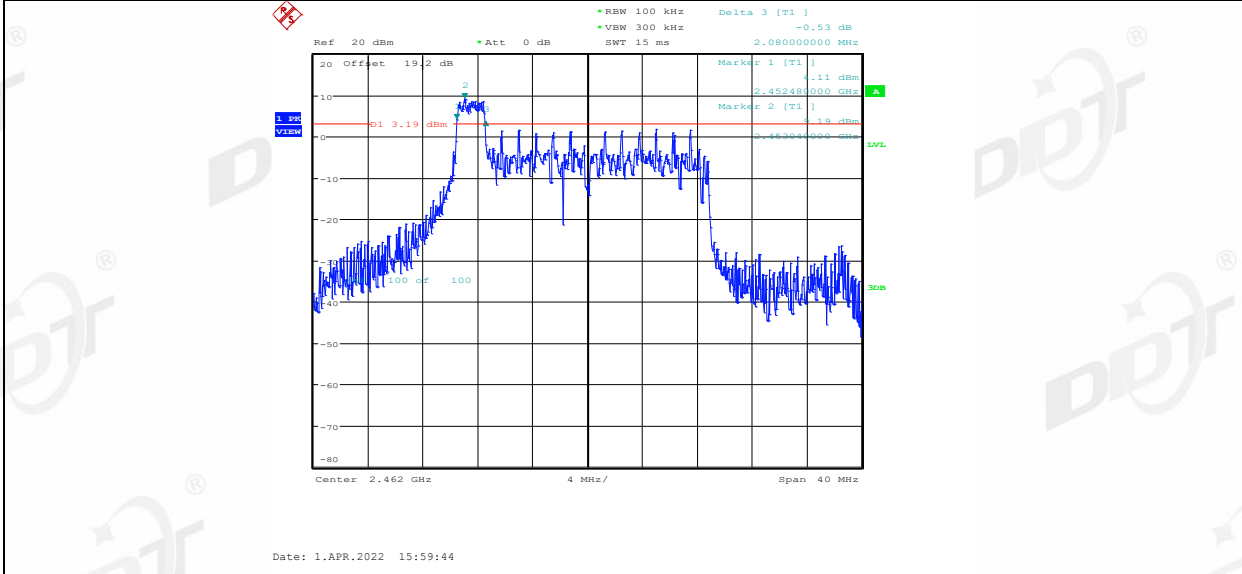
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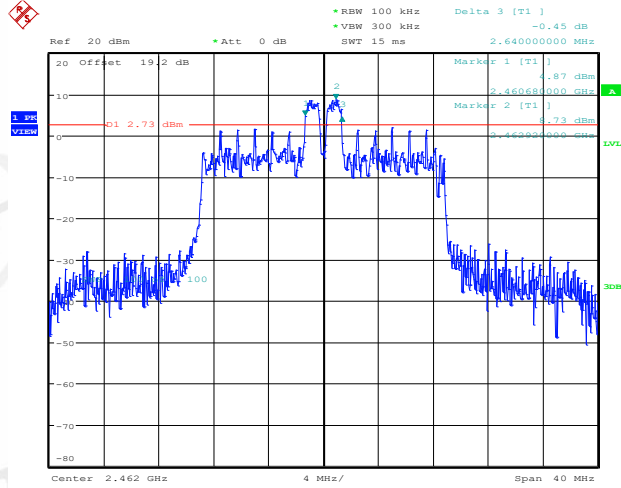
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11AX20MIMO\_Ant2\_2462\_26Tone\_RU0

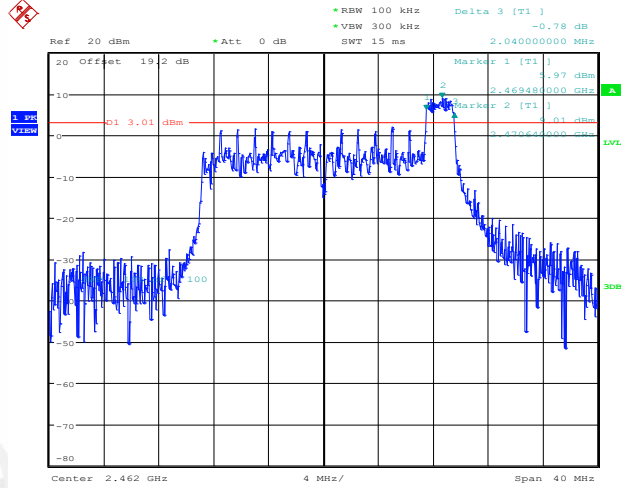


11AX20MIMO\_Ant2\_2462\_26Tone\_RU4



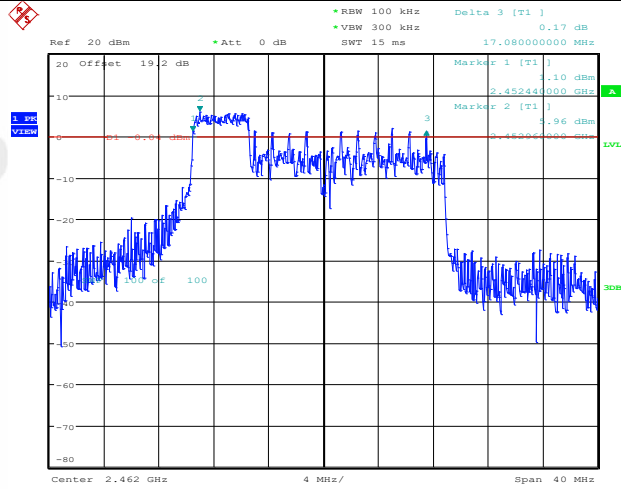
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11AX20MIMO\_Ant2\_2462\_26Tone\_RU8



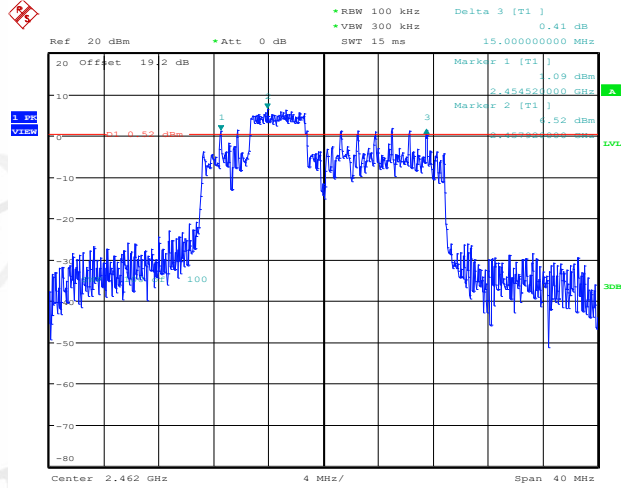
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11AX20MIMO\_Ant2\_2462\_52Tone\_RU37



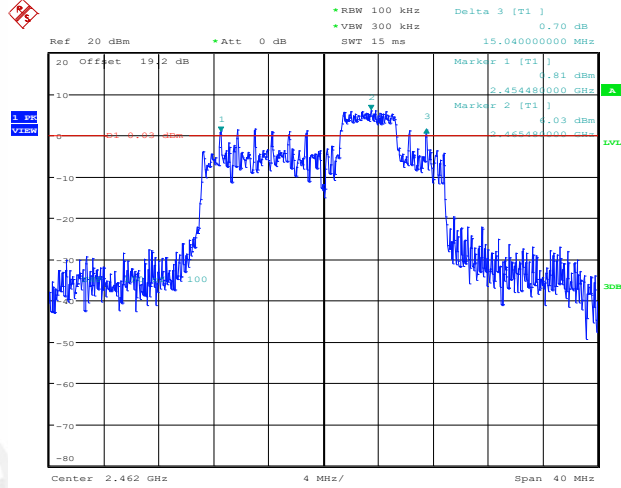
Date: 1.APR.2022 16:09:07

11AX20MIMO\_Ant2\_2462\_52Tone\_RU38



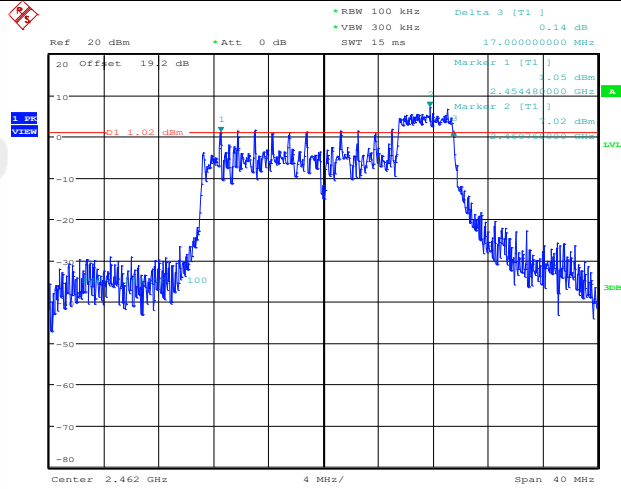
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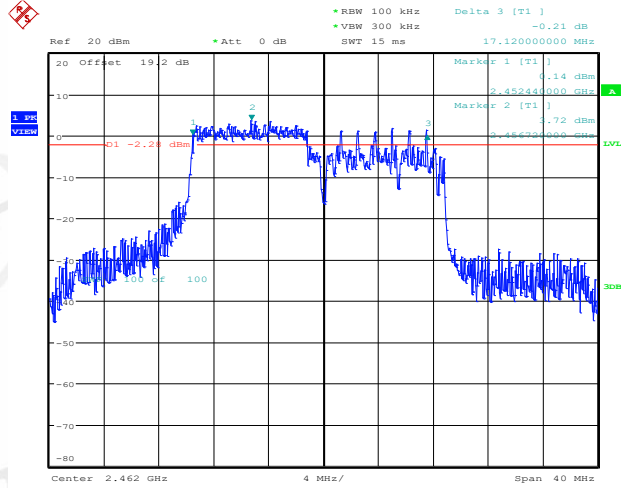
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11AX20MIMO\_Ant2\_2462\_52Tone\_RU40



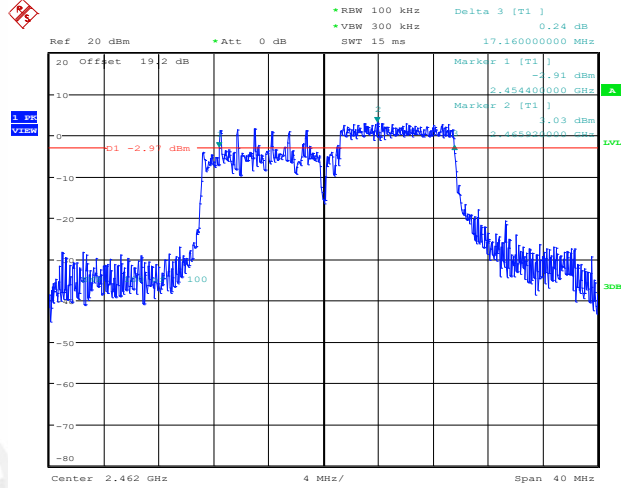
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11AX20MIMO\_Ant2\_2462\_106Tone\_RU53



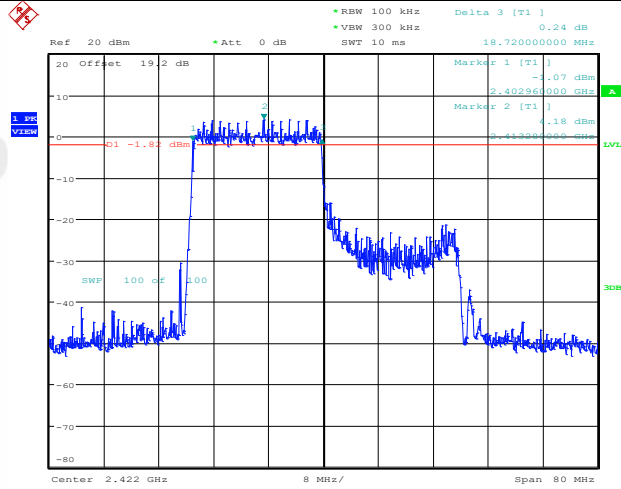
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11AX20MIMO\_Ant2\_2462\_106Tone\_RU54



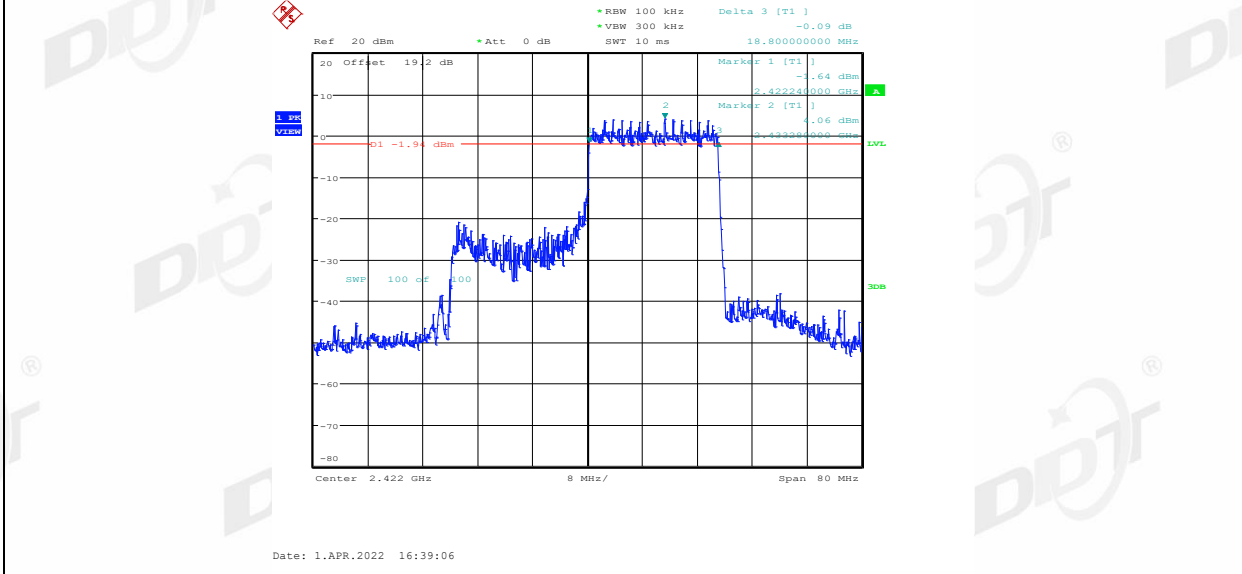
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11AX40MIMO\_Ant1\_2422\_242Tone\_RU61

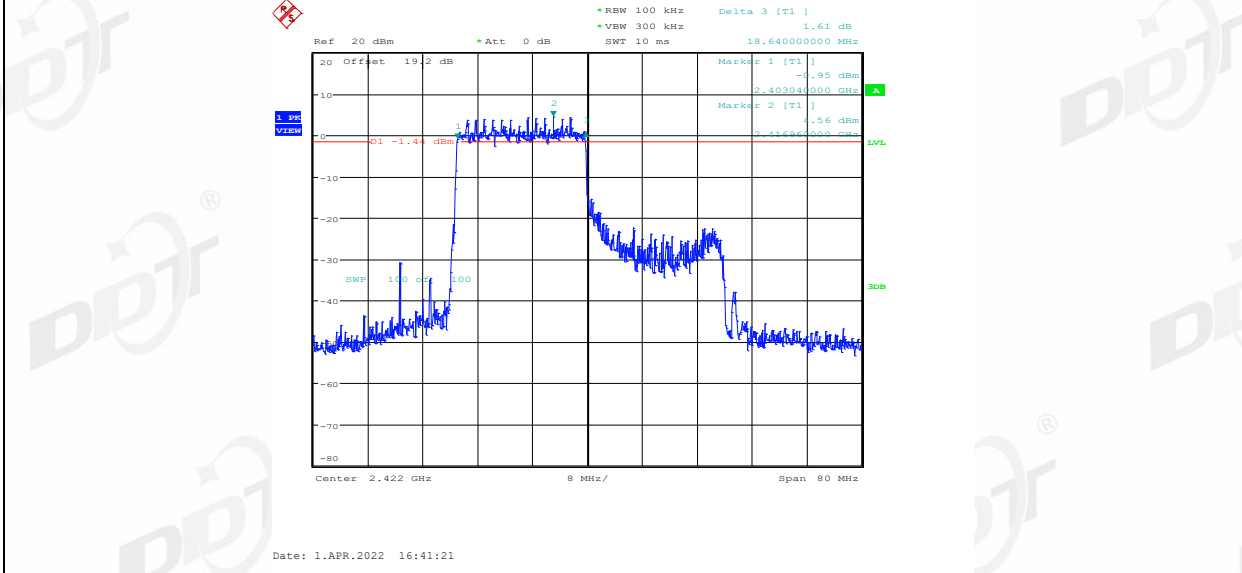


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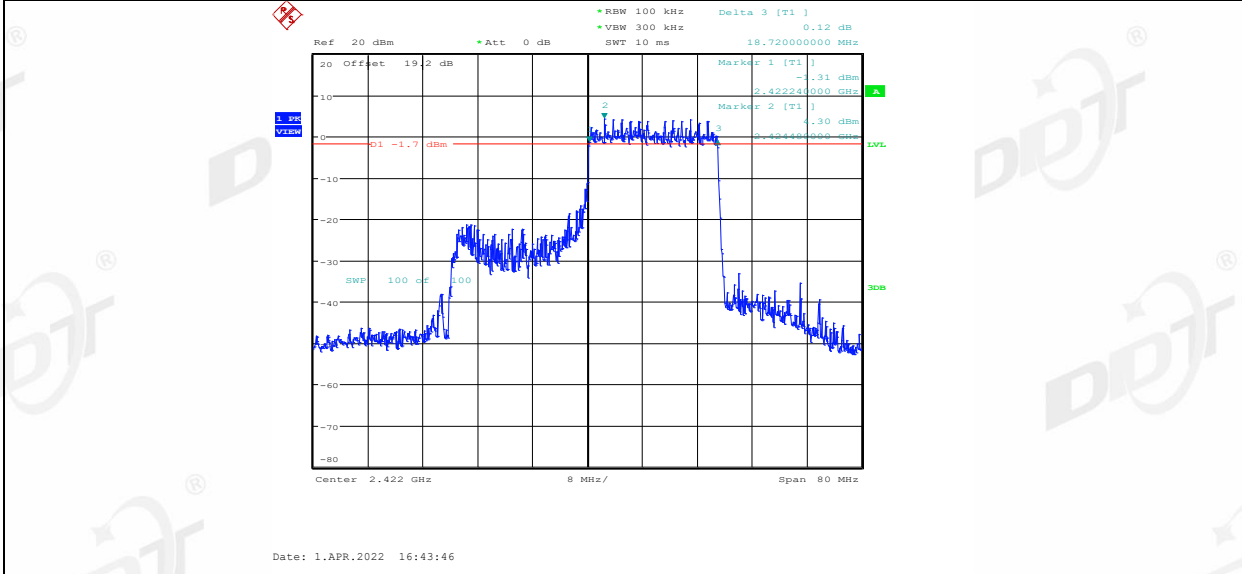
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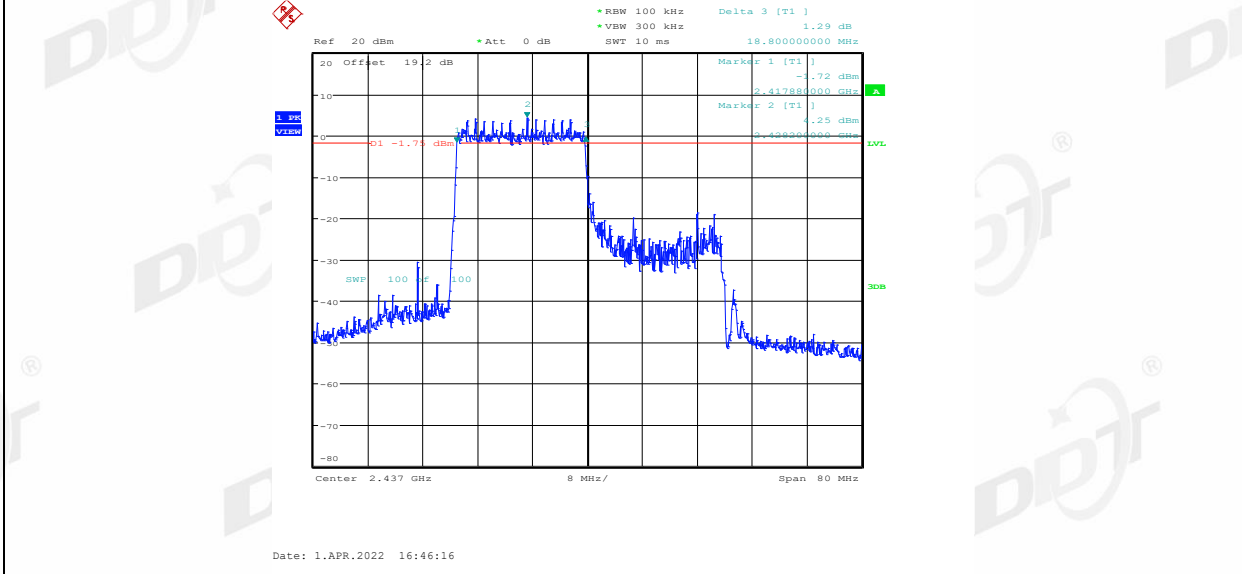
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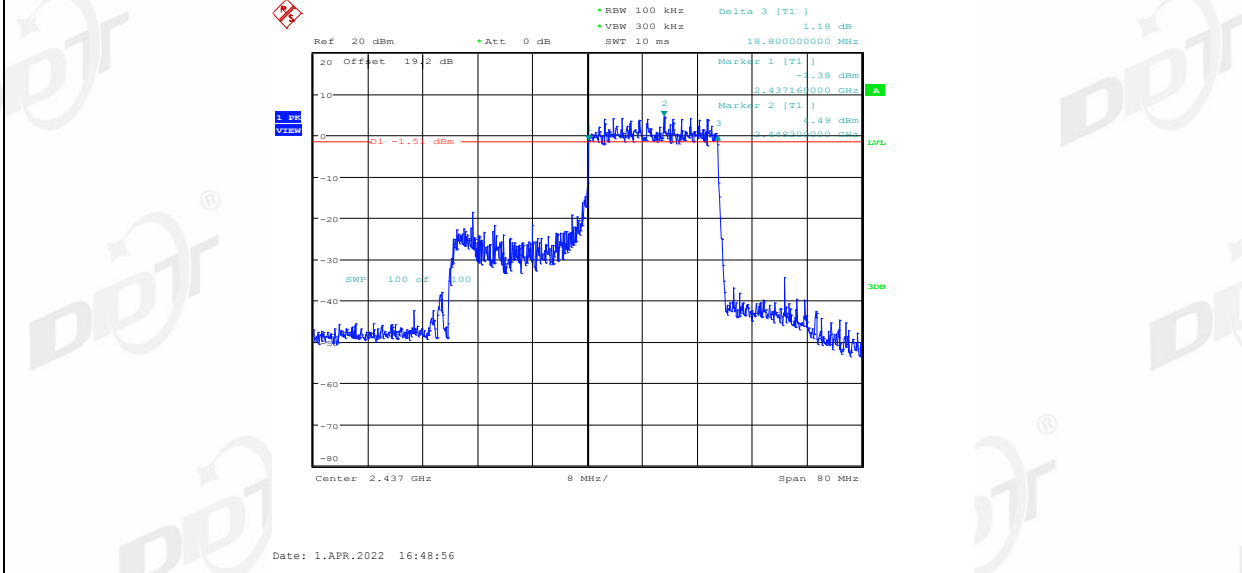
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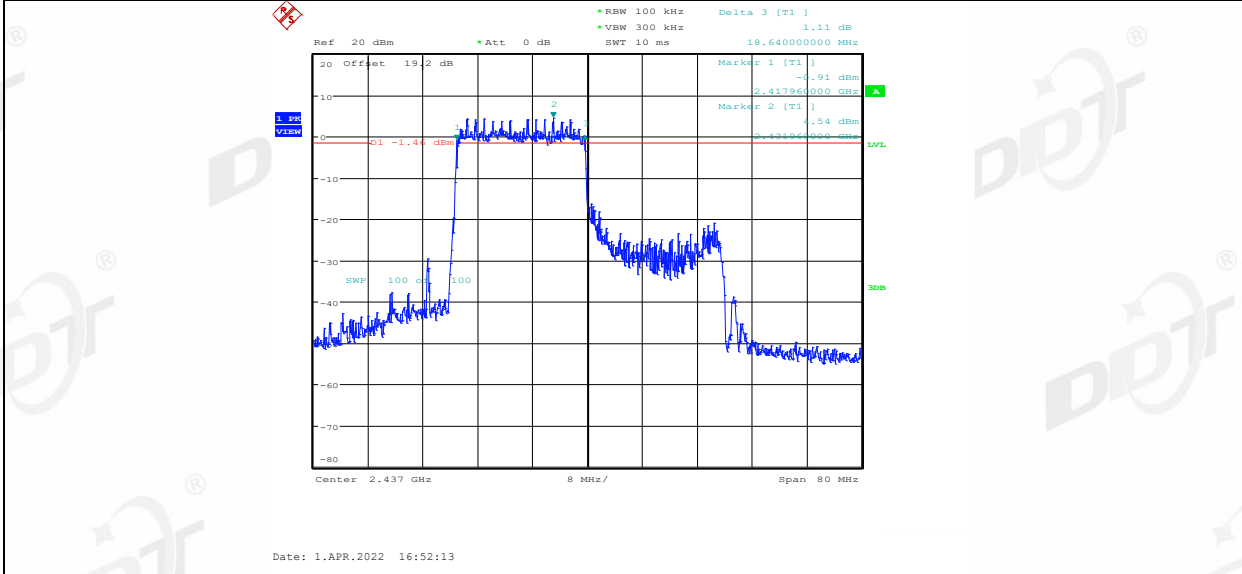
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11AX40MIMO\_Ant1\_2437\_242Tone\_RU62

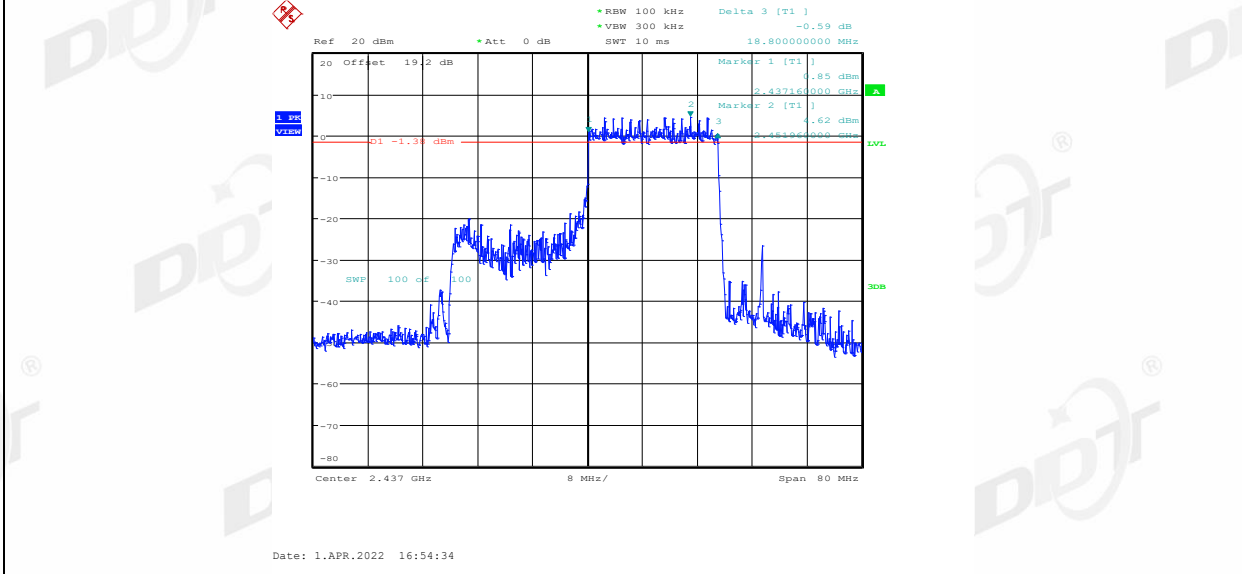


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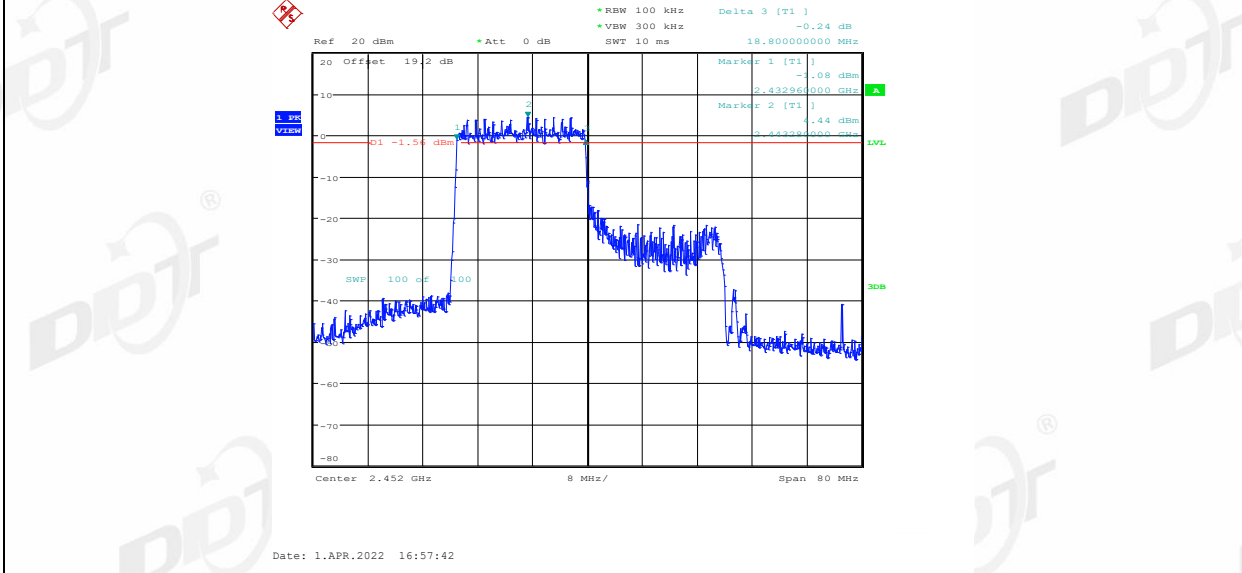




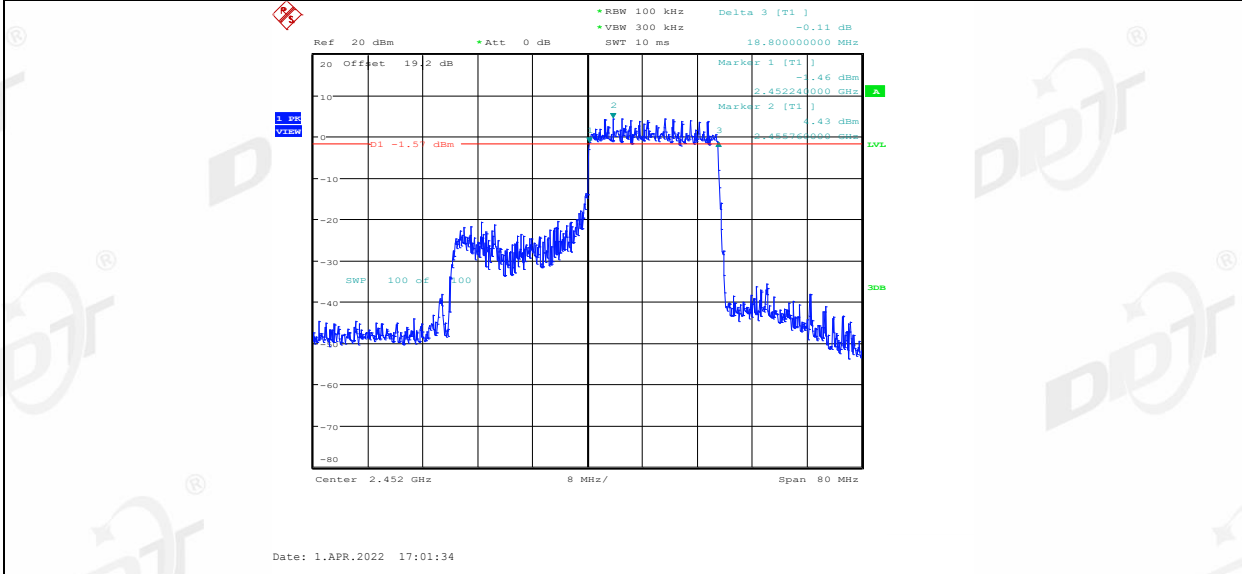
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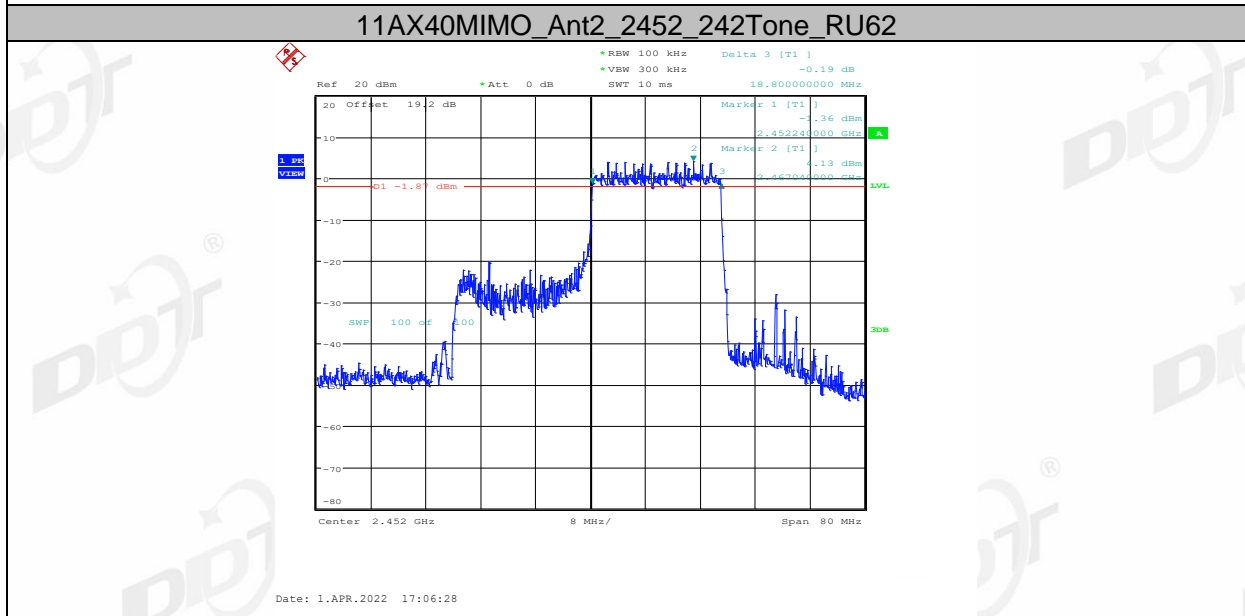
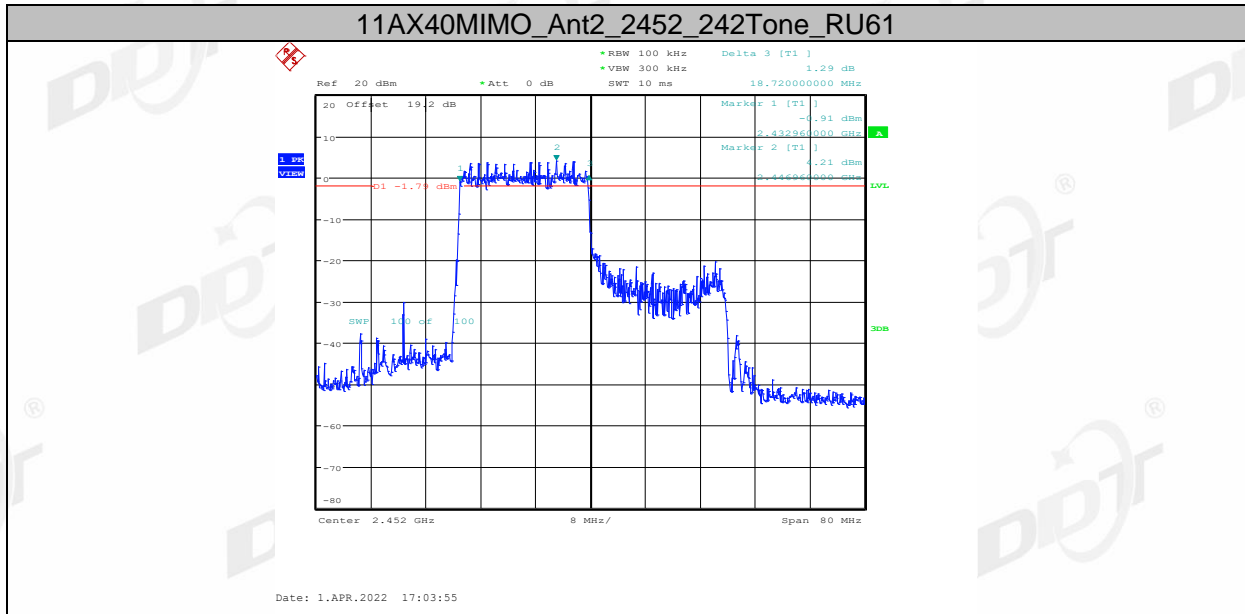


11AX40MIMO\_Ant1\_2452\_242Tone\_RU61



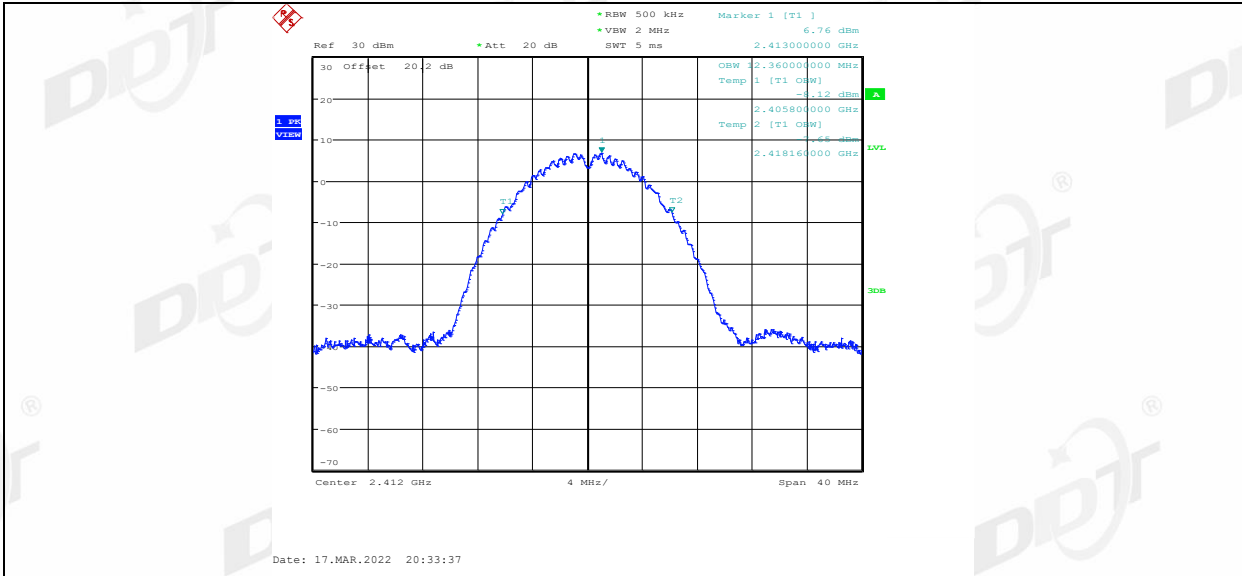
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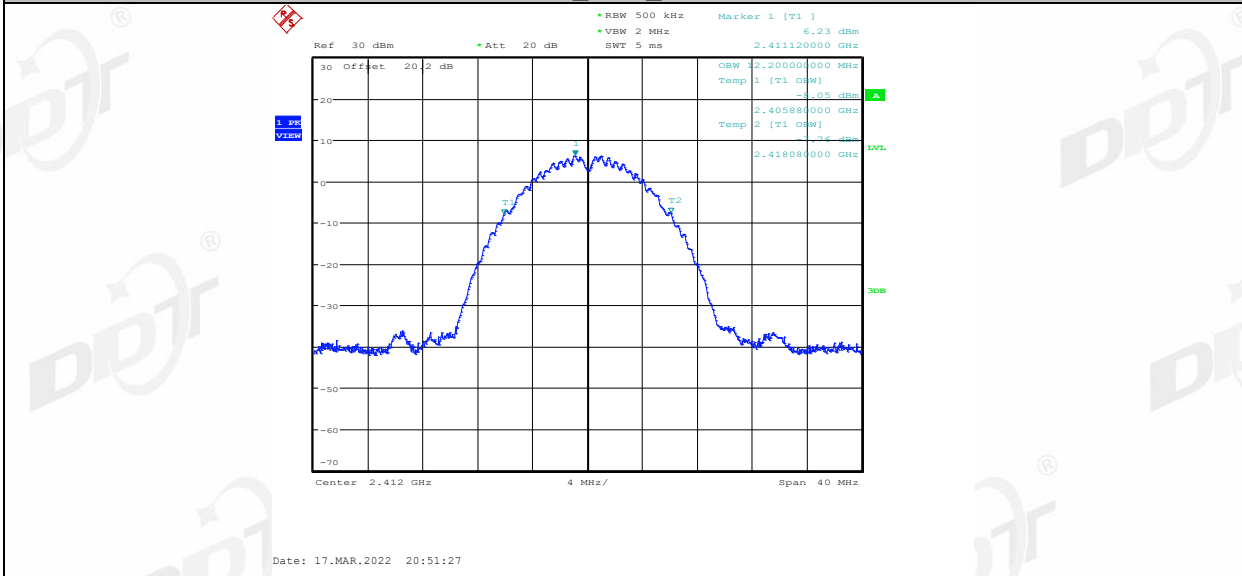


99% bandwidth:

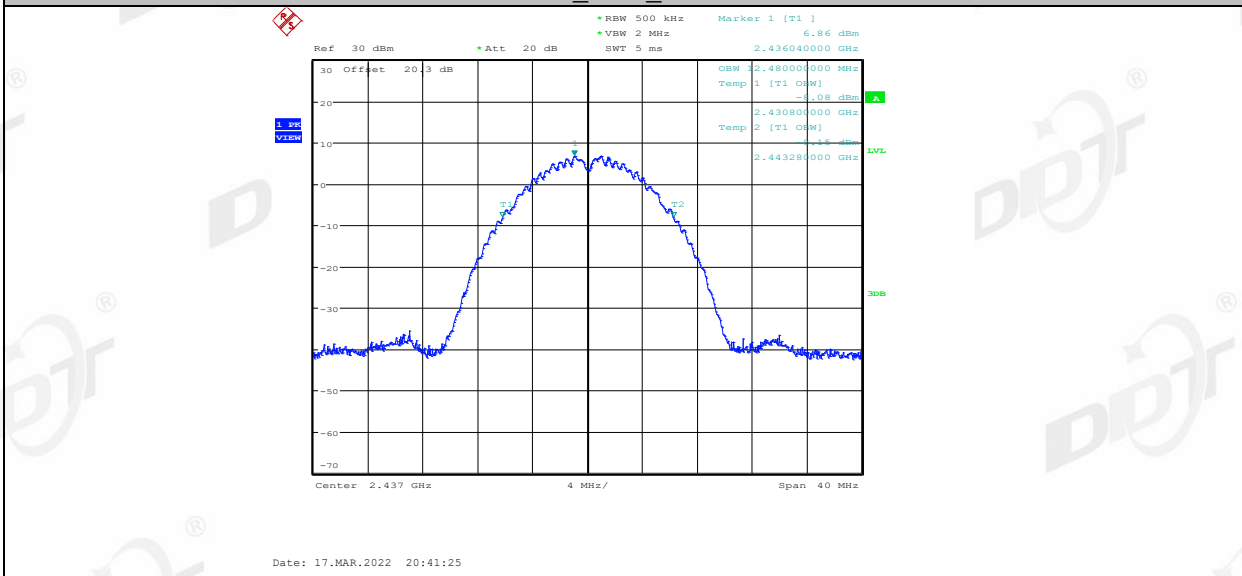
11B\_Ant1\_2412



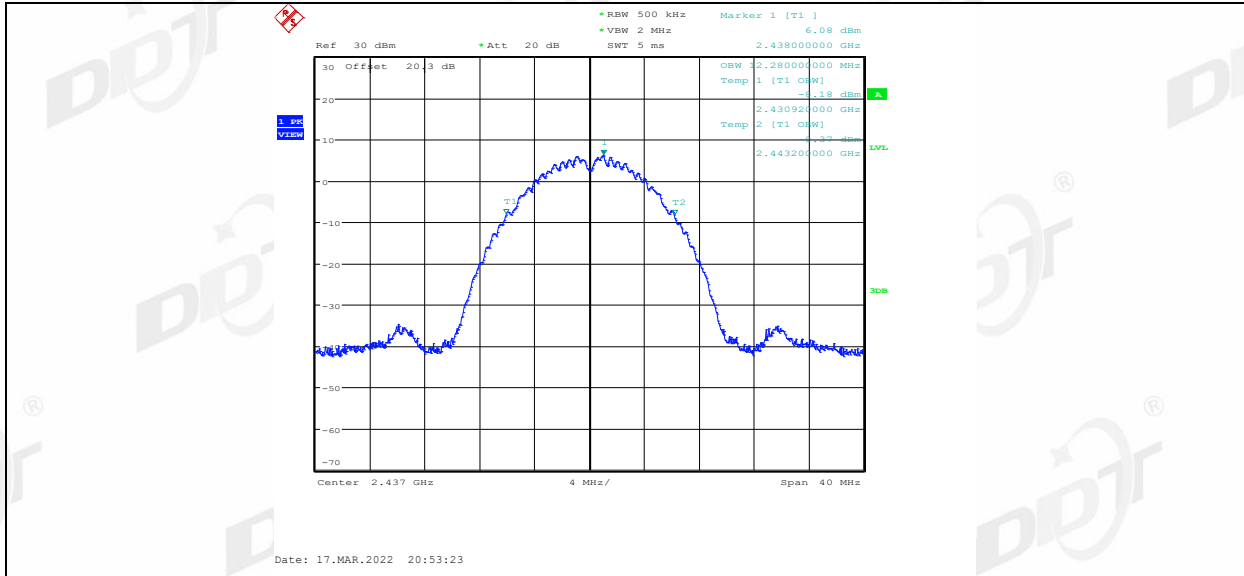
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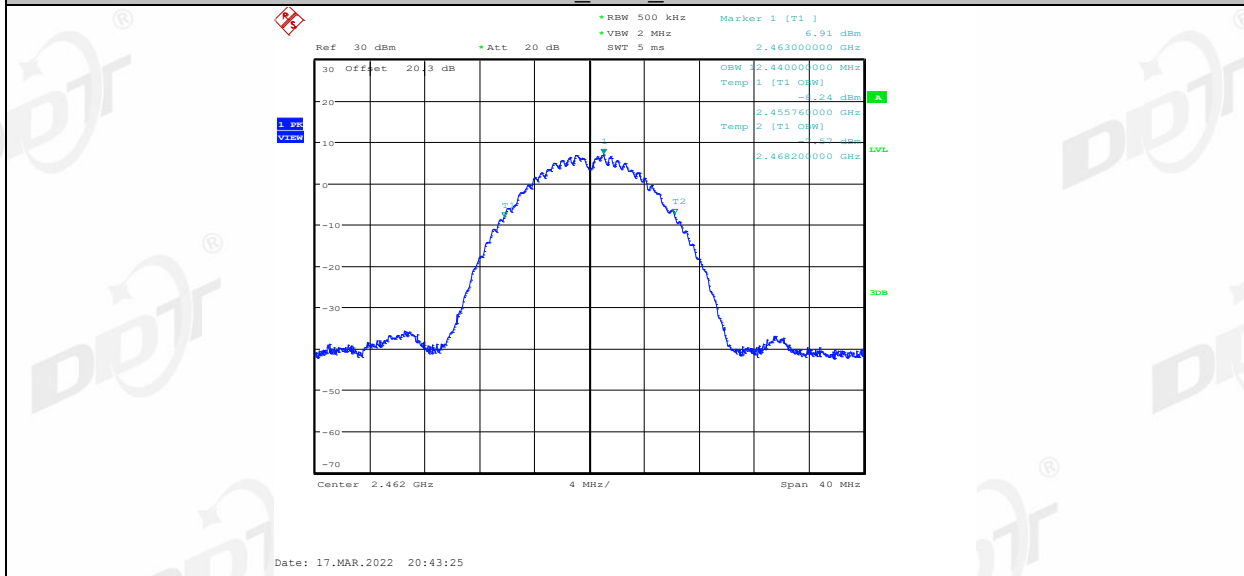
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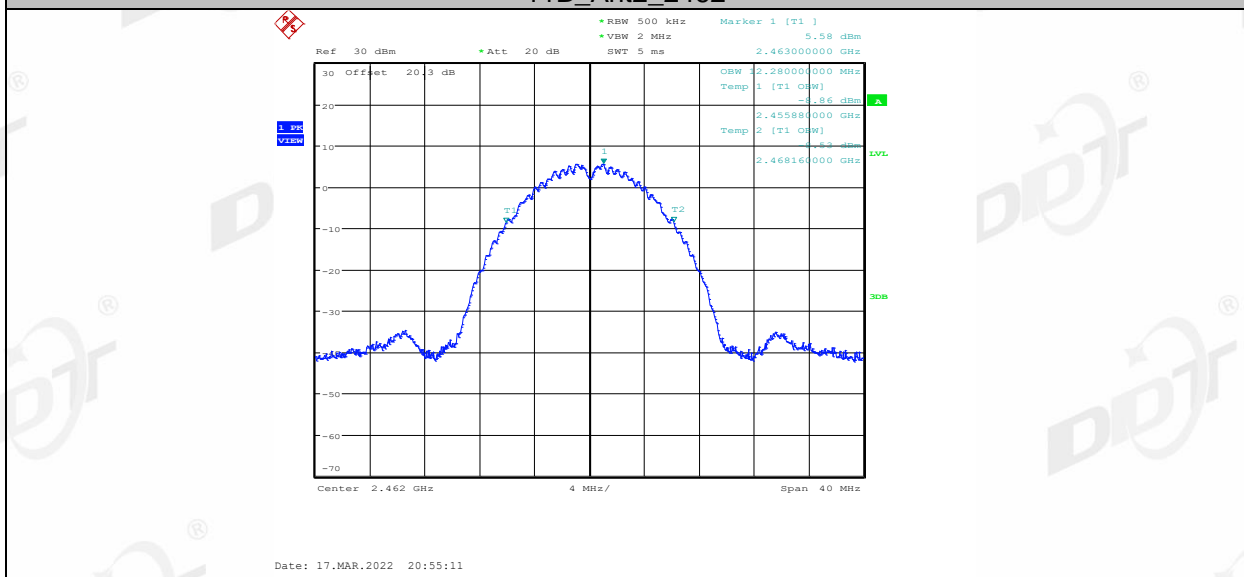
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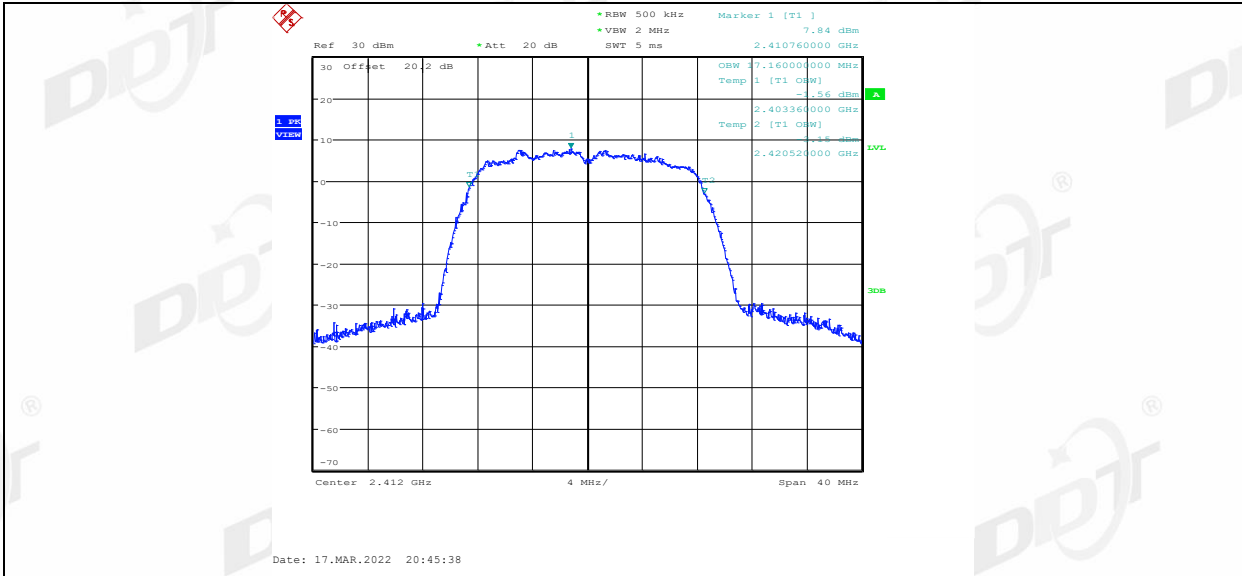
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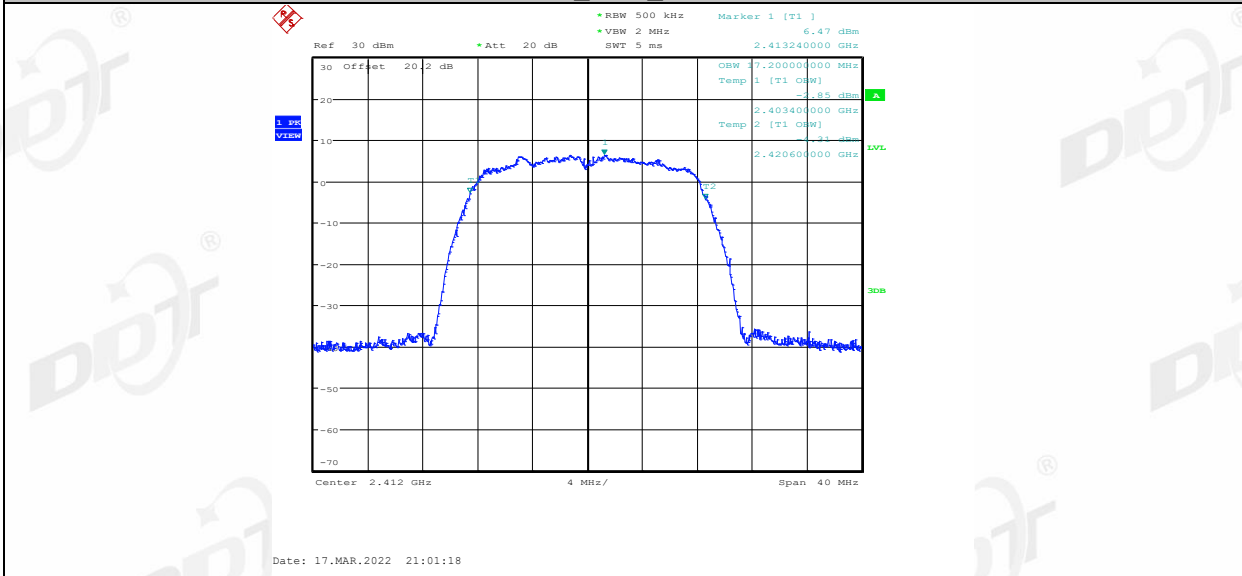
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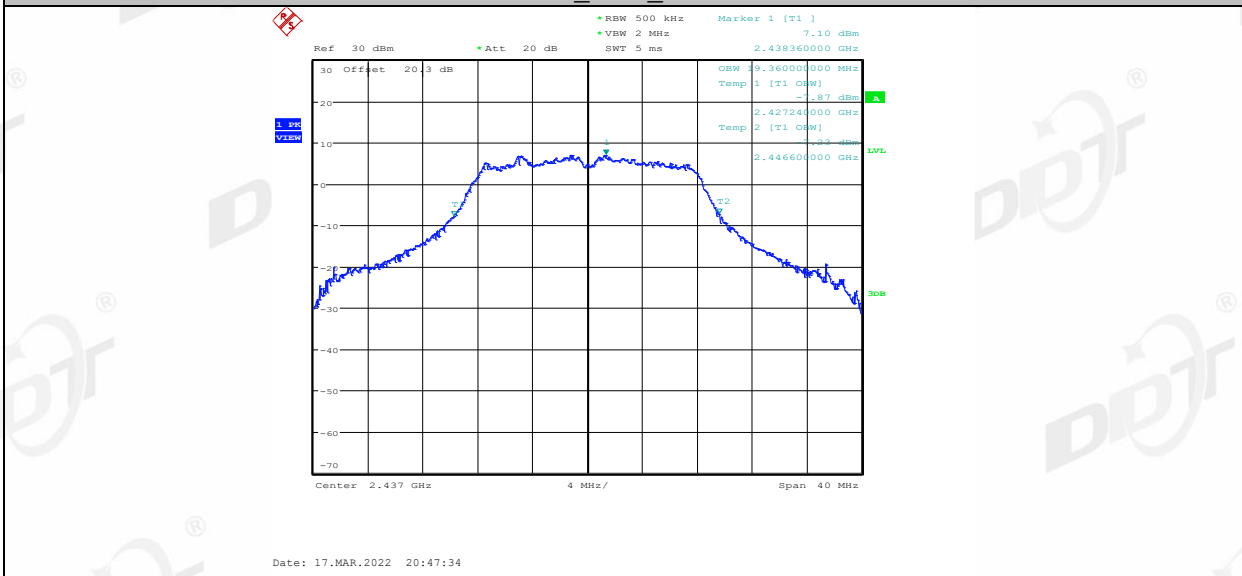
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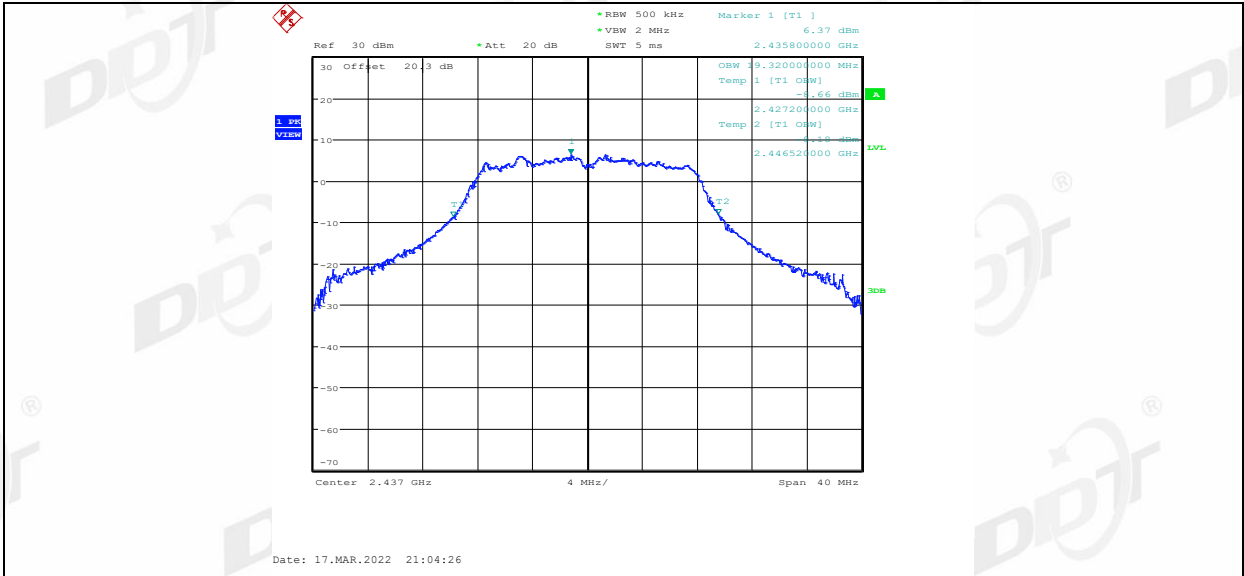
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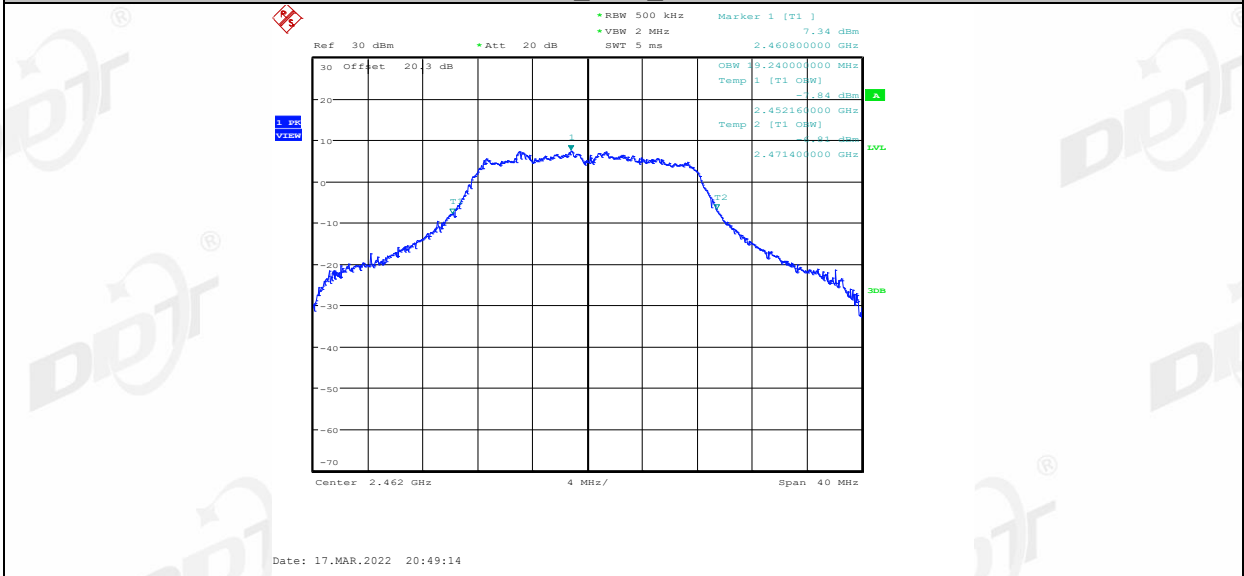
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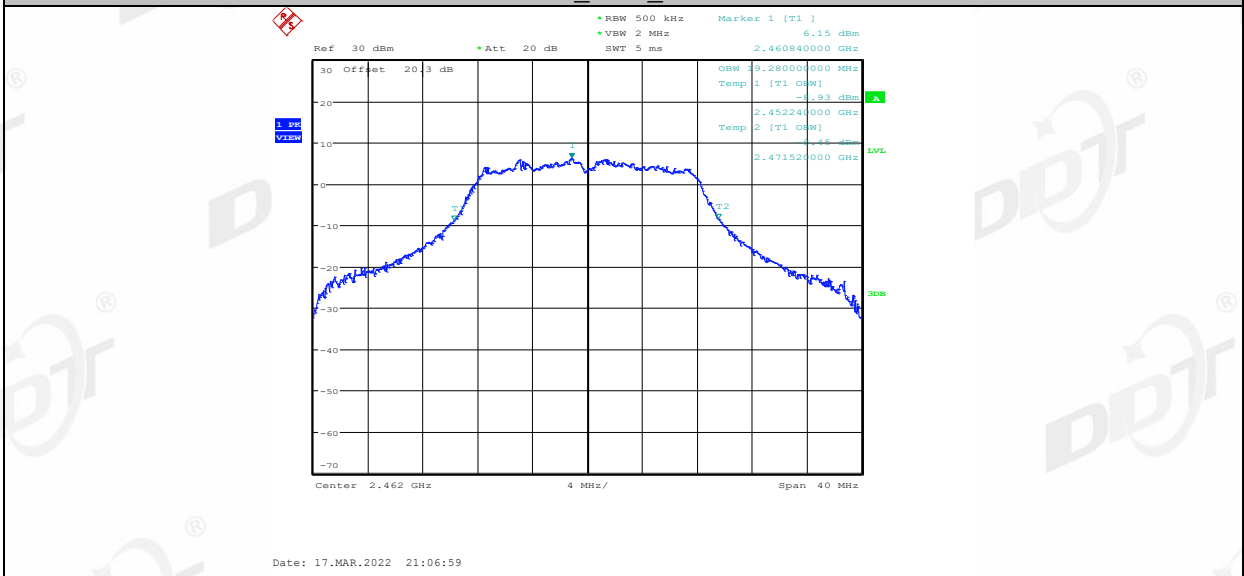
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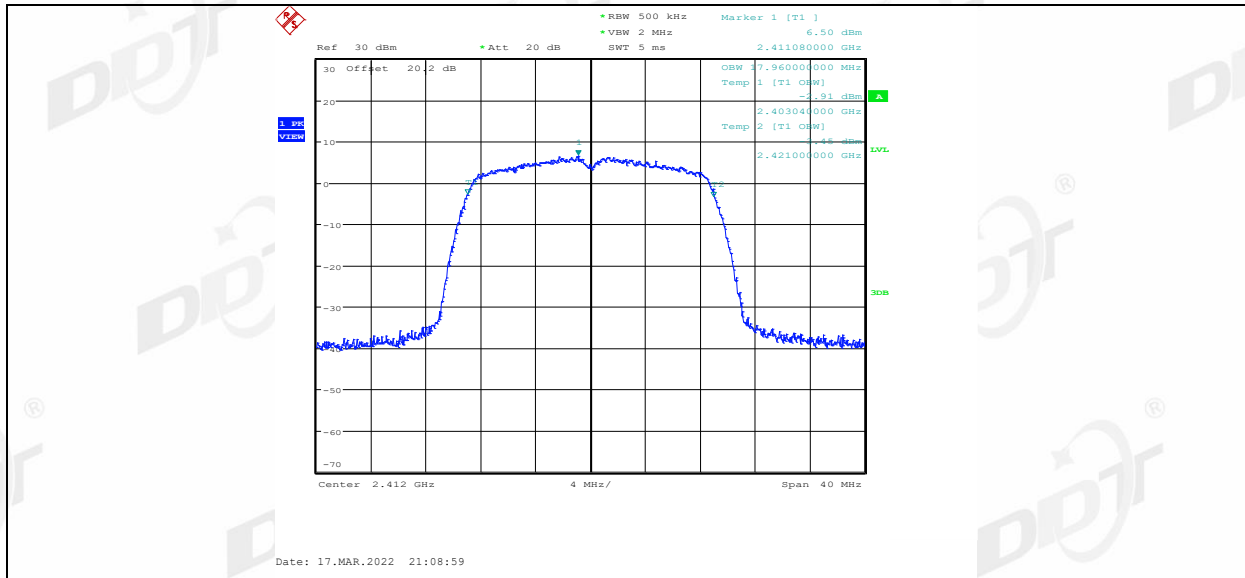
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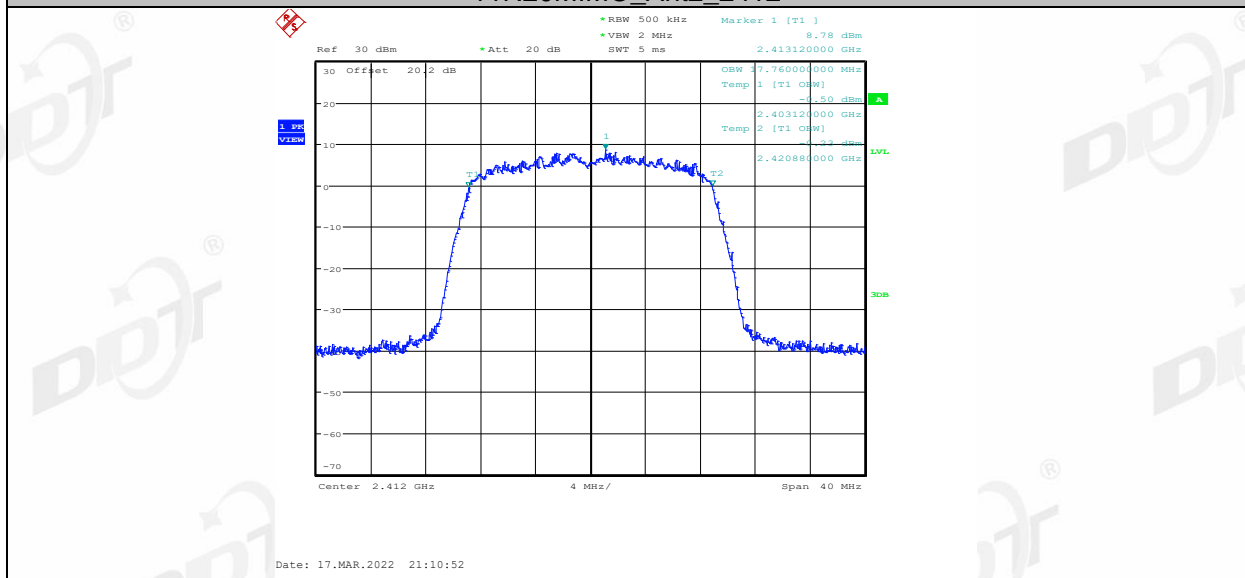
11G\_Ant2\_2462



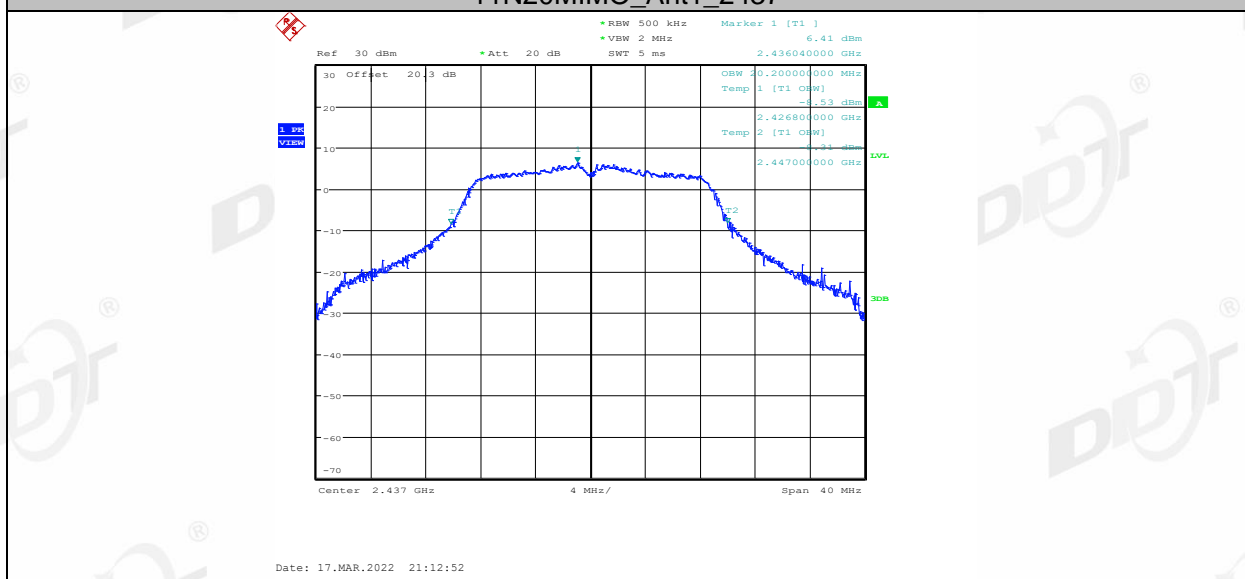
11N20MIMO\_Ant1\_2412



11N20MIMO\_Ant2\_2412

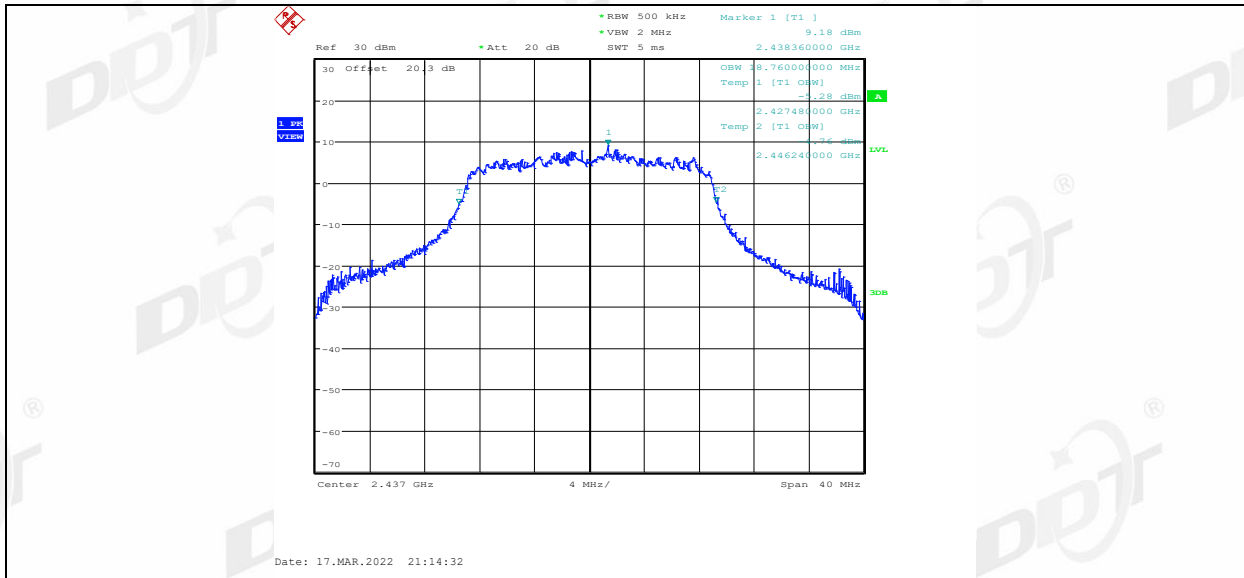


11N20MIMO\_Ant1\_2437

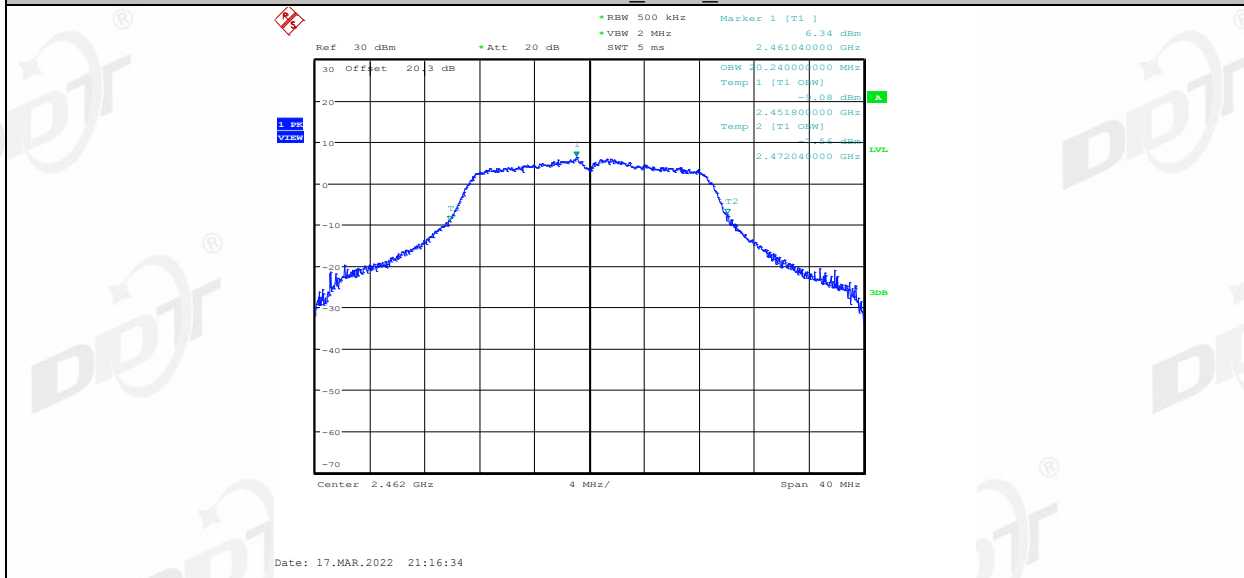


11N20MIMO\_Ant2\_2437

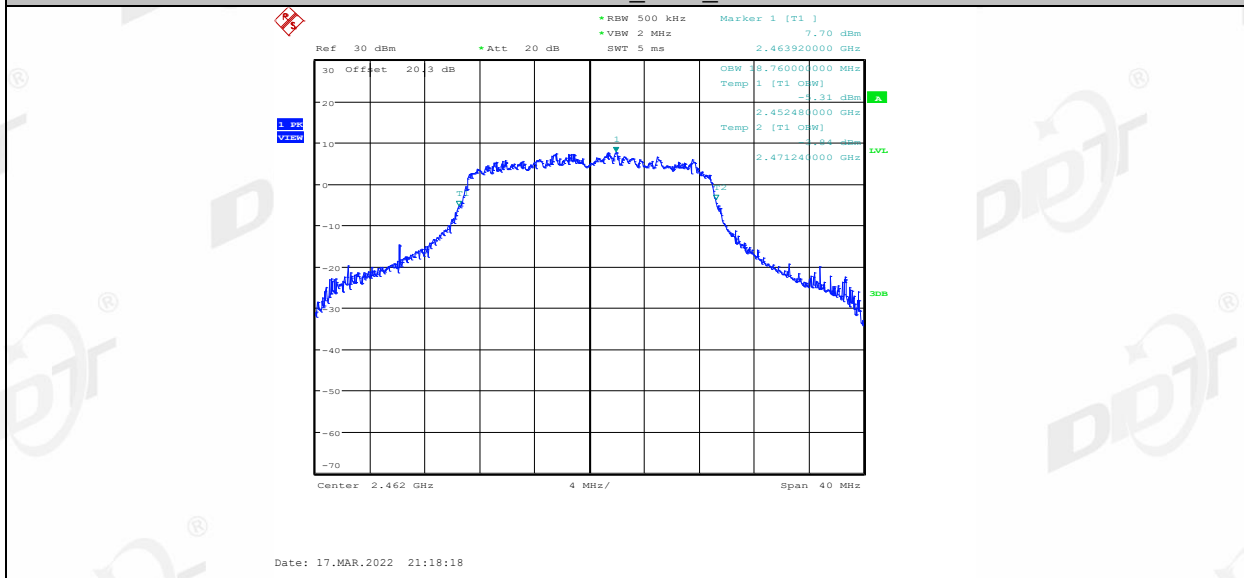




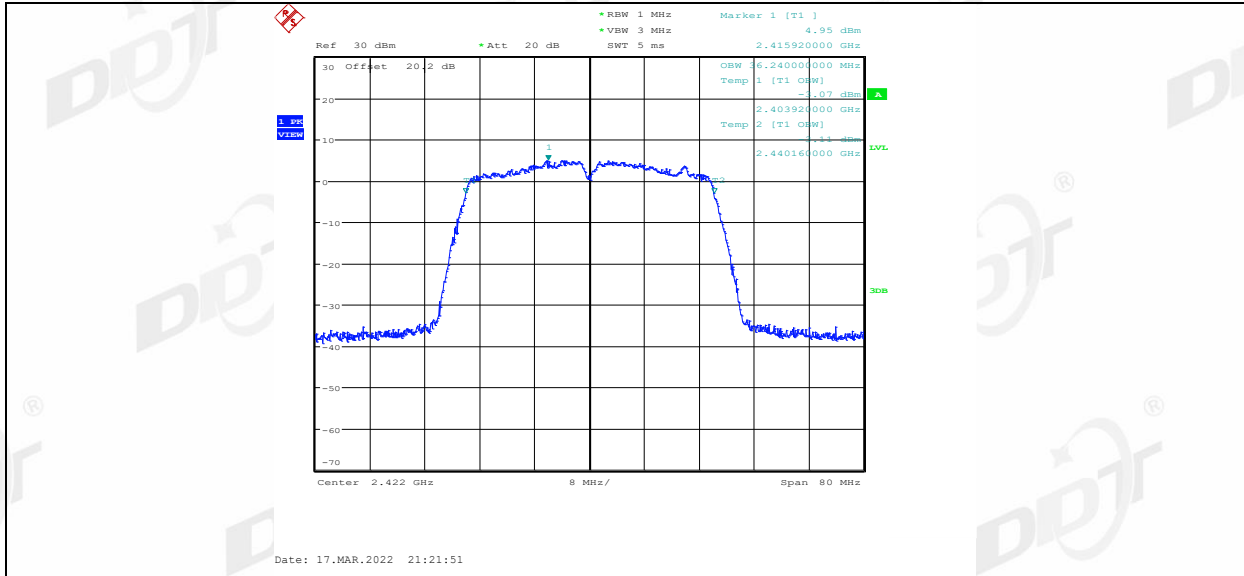
11N20MIMO\_Ant1\_2462



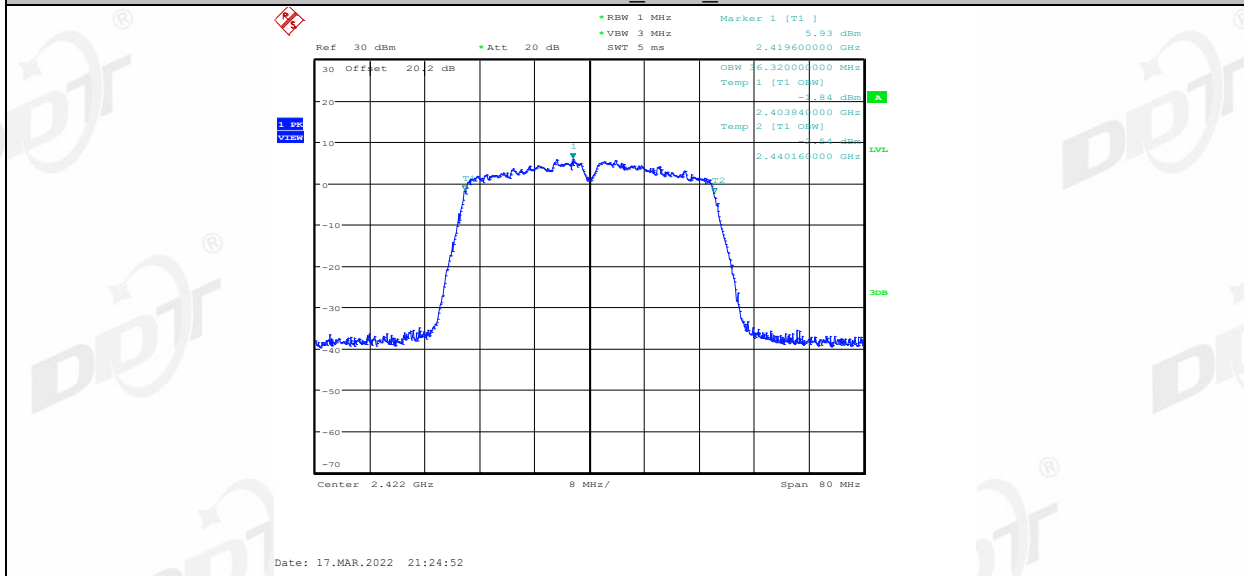
11N20MIMO\_Ant2\_2462



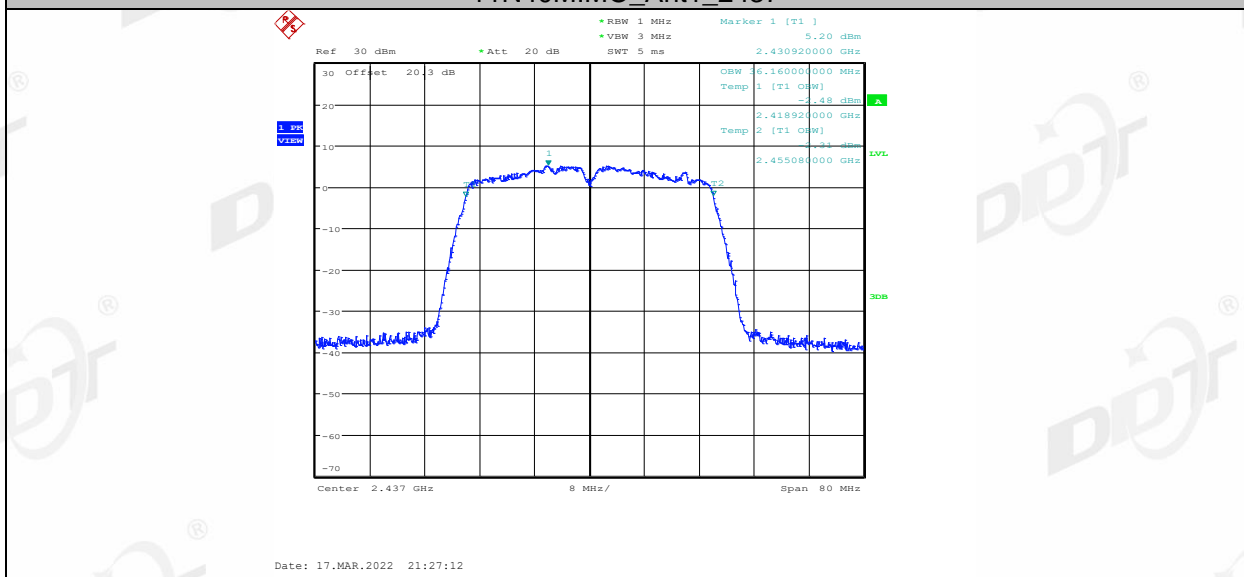
11N40MIMO\_Ant1\_2422



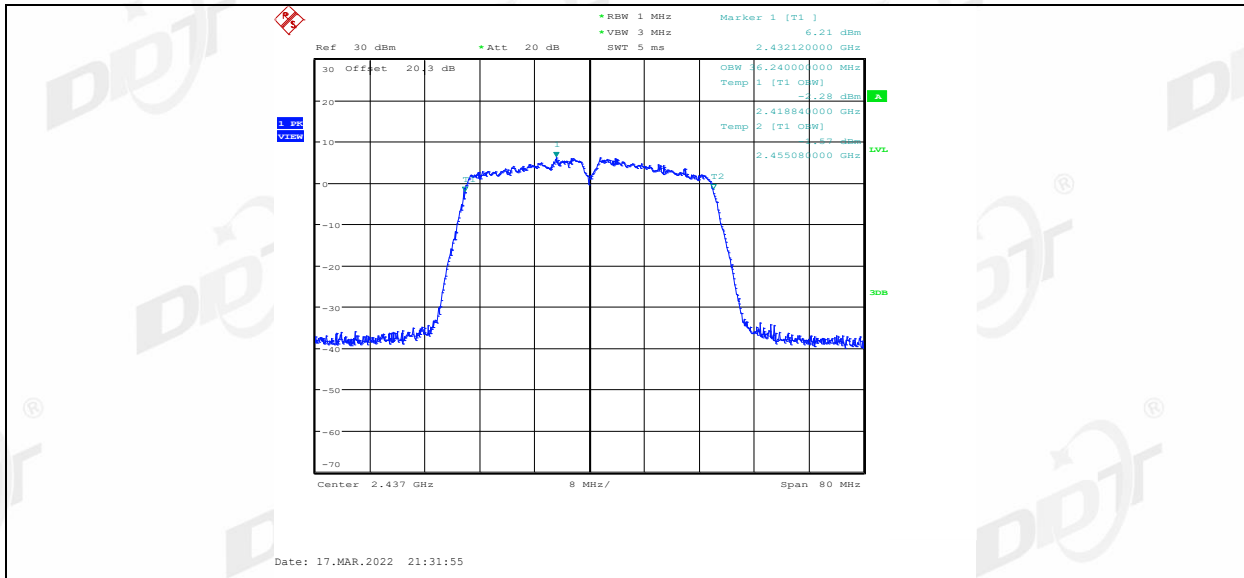
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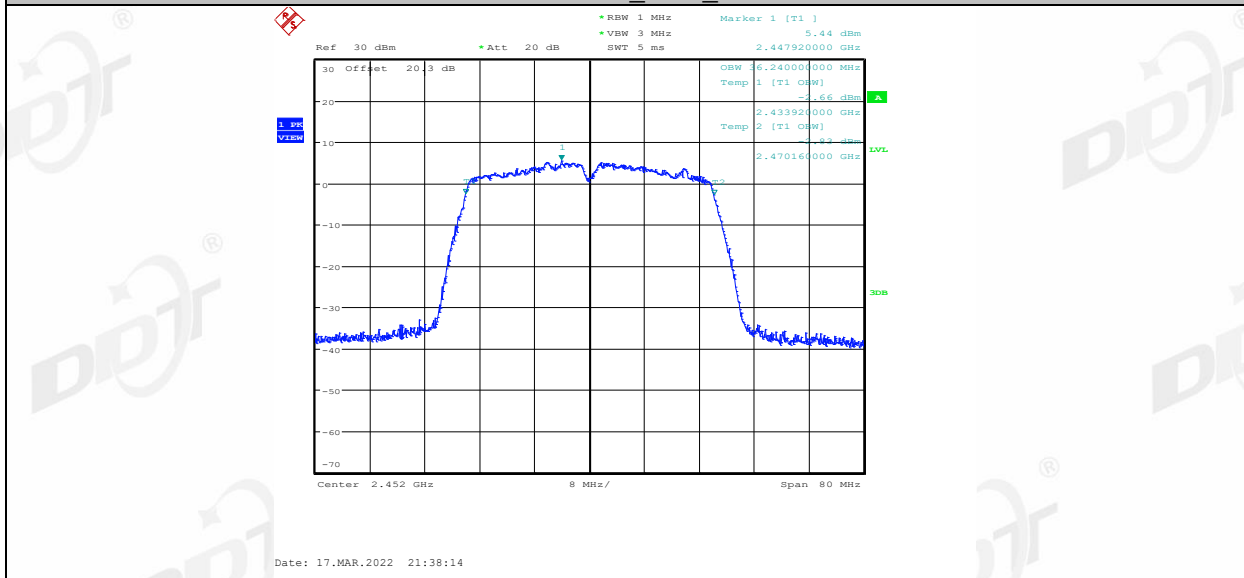
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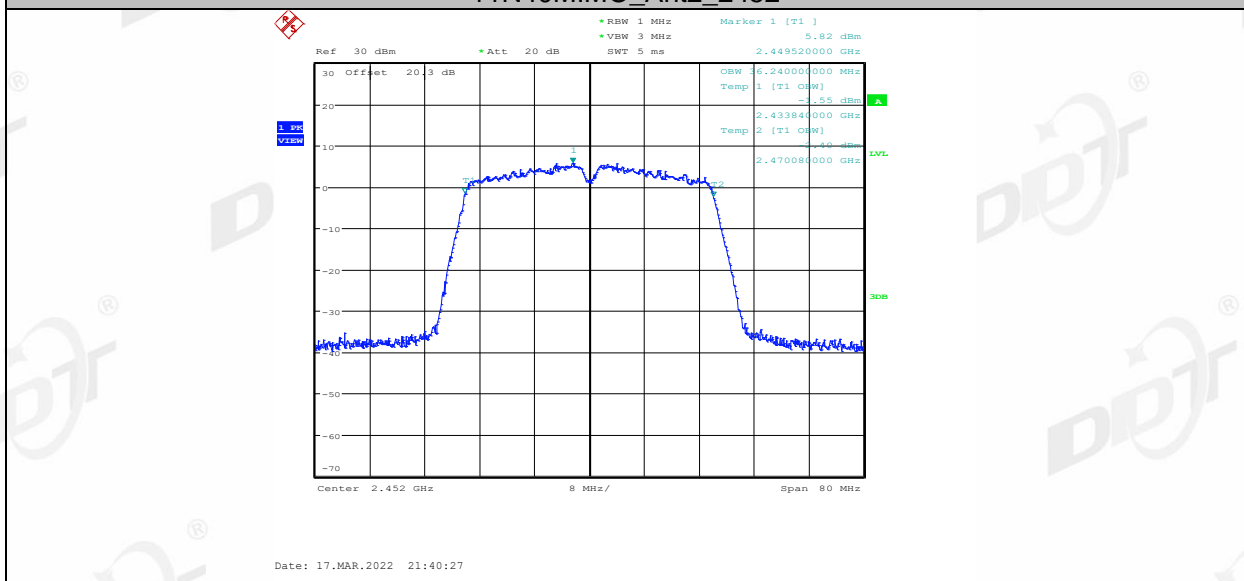
11N40MIMO\_Ant2\_2437



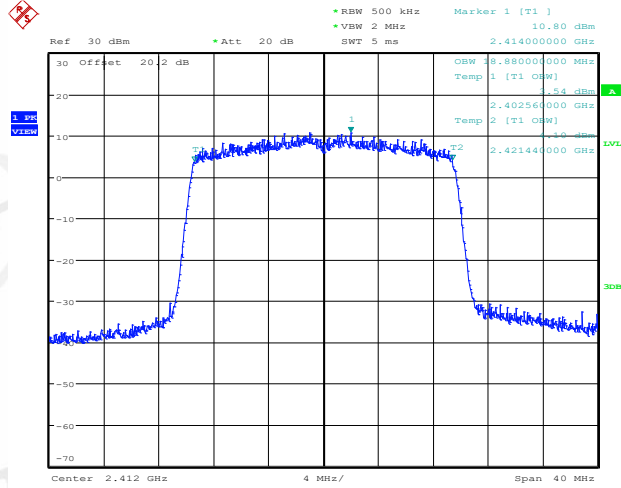
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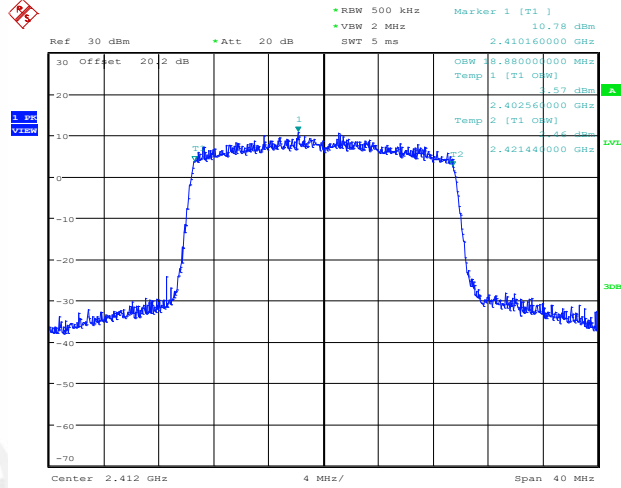
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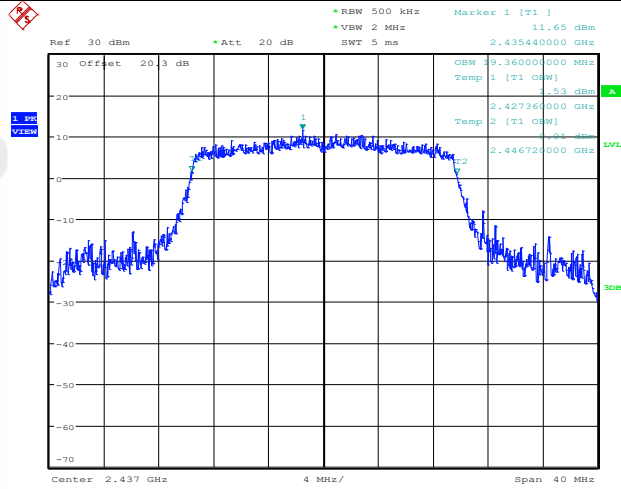
11AX20MIMO\_Ant1\_2412



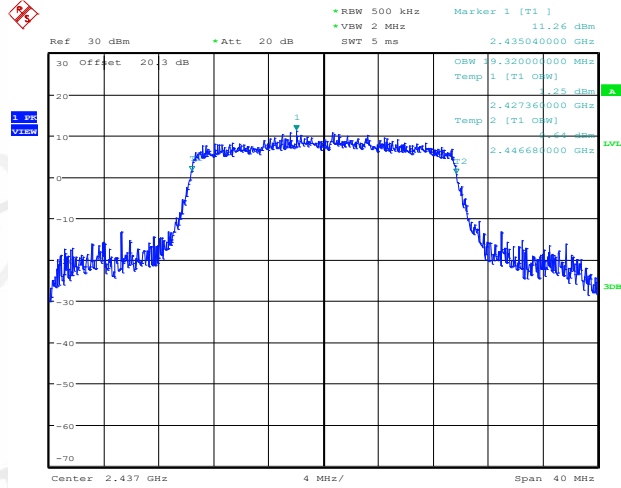
11AX20MIMO\_Ant2\_2412



11AX20MIMO\_Ant1\_2437

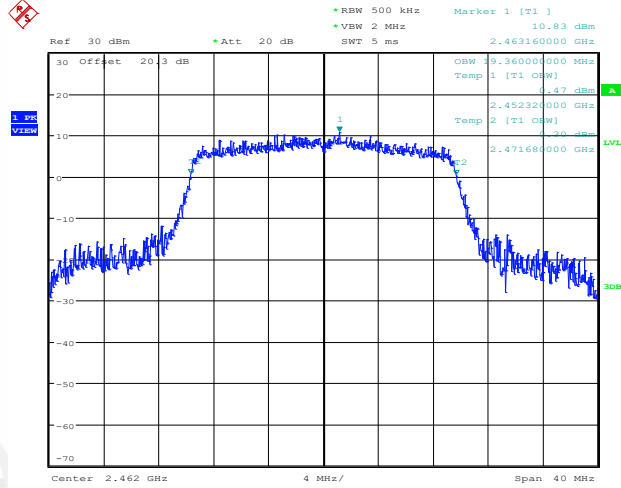


11AX20MIMO\_Ant2\_2437



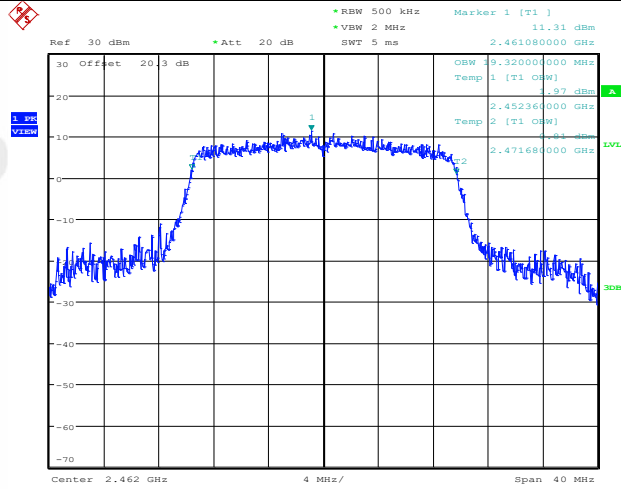
Date: 18.MAR.2022 17:19:47

11AX20MIMO\_Ant1\_2462



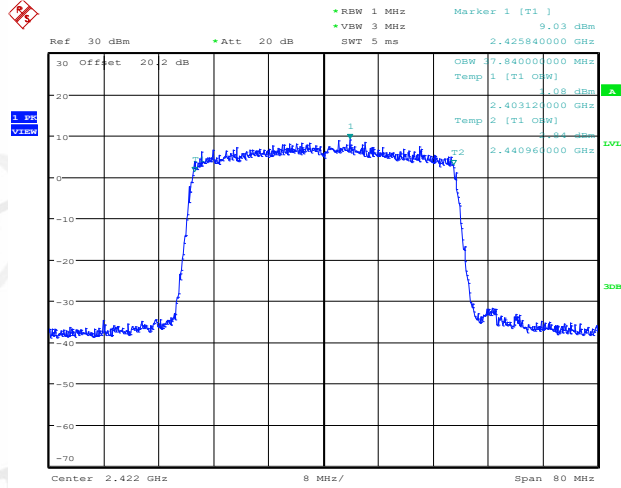
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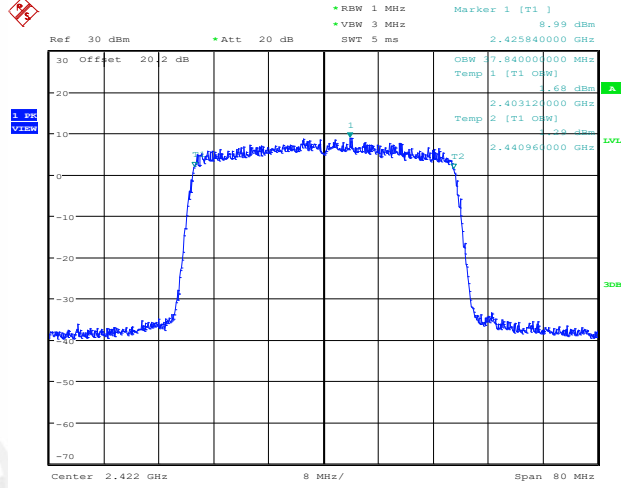
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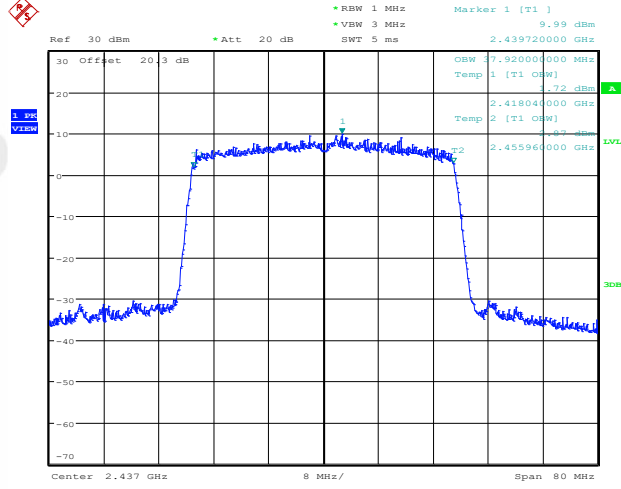
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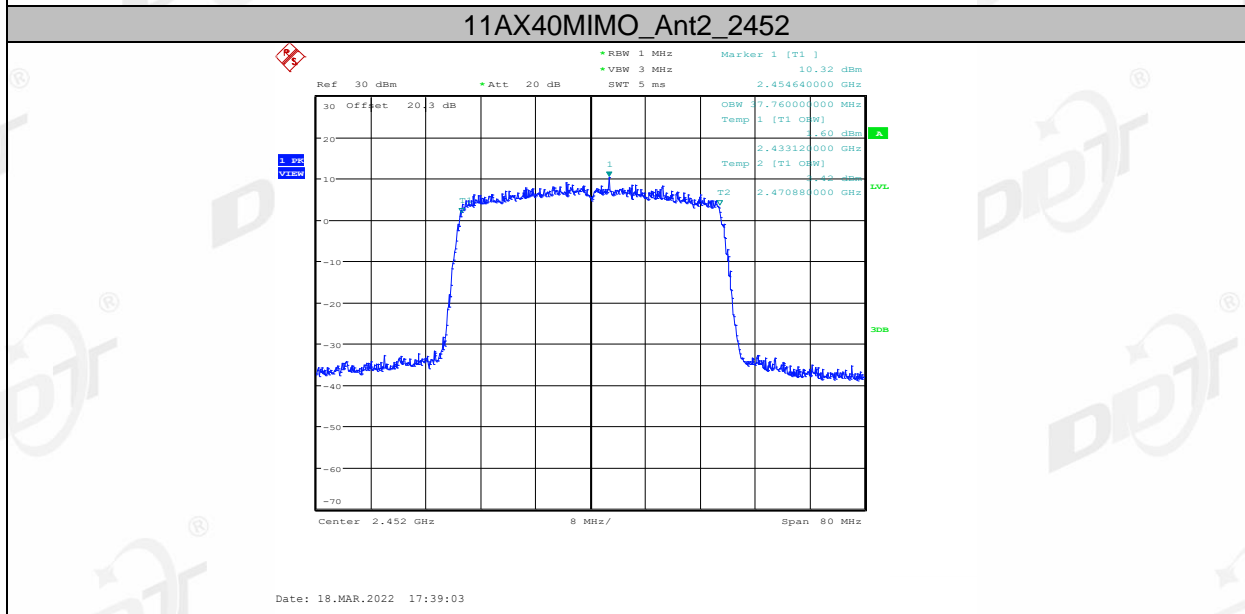
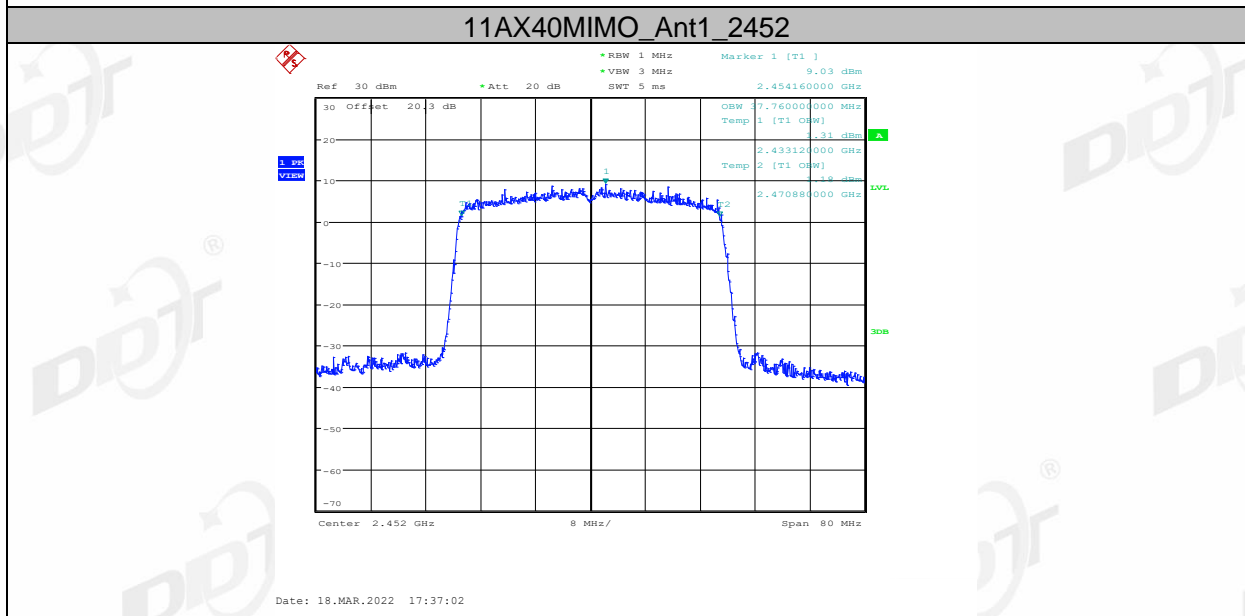
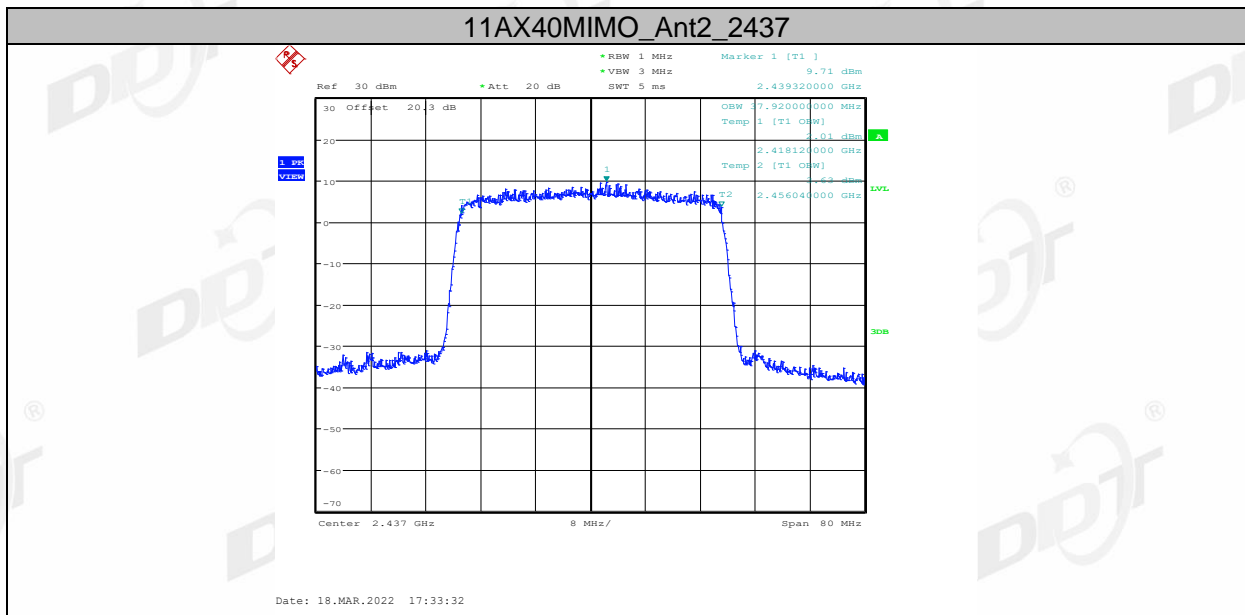


Date: 18.MAR.2022 17:28:12

### 11AX40MIMO\_Ant1\_2437



Date: 18.MAR.2022 17:31:35





## 5. Conducted Peak Output Power

### 5.1. Block diagram of test setup

Same as section 4.1

### 5.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 5.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the PK output power of each antenna port by power meter.

### 5.4. Test result

| Test Mode | Test Channel | Ant   | Conducted Output Power (dBm) | Limit [dBm] | EIRP (dBm) | Limit [dBm] | Verdict |
|-----------|--------------|-------|------------------------------|-------------|------------|-------------|---------|
| 11B       | 2412         | ANT1  | 13.67                        | 30          | 13.67      | 36          | Pass    |
| 11B       | 2412         | ANT2  | 13.88                        | 30          | 13.88      | 36          | Pass    |
| 11B       | 2437         | ANT1  | 13.73                        | 30          | 13.73      | 36          | Pass    |
| 11B       | 2437         | ANT2  | 13.64                        | 30          | 13.64      | 36          | Pass    |
| 11B       | 2462         | ANT1  | 13.63                        | 30          | 13.63      | 36          | Pass    |
| 11B       | 2462         | ANT2  | 13.57                        | 30          | 13.57      | 36          | Pass    |
| 11G       | 2412         | ANT1  | 12.11                        | 30          | 12.11      | 36          | Pass    |
| 11G       | 2412         | ANT2  | 12.21                        | 30          | 12.21      | 36          | Pass    |
| 11G       | 2437         | ANT1  | 12.12                        | 30          | 12.12      | 36          | Pass    |
| 11G       | 2437         | ANT2  | 12.28                        | 30          | 12.28      | 36          | Pass    |
| 11G       | 2462         | ANT1  | 11.91                        | 30          | 11.91      | 36          | Pass    |
| 11G       | 2462         | ANT2  | 11.96                        | 30          | 11.96      | 36          | Pass    |
| 11N20MIMO | 2412         | ANT1  | 6.59                         | 30          | 6.59       | 36          | Pass    |
| 11N20MIMO | 2412         | ANT2  | 6.61                         | 30          | 6.61       | 36          | Pass    |
| 11N20MIMO | 2412         | total | 9.61                         | 30          | 9.61       | 36          | Pass    |
| 11N20MIMO | 2437         | ANT1  | 6.57                         | 30          | 6.57       | 36          | Pass    |
| 11N20MIMO | 2437         | ANT2  | 6.59                         | 30          | 6.59       | 36          | Pass    |
| 11N20MIMO | 2437         | total | 9.59                         | 30          | 9.59       | 36          | Pass    |
| 11N20MIMO | 2462         | ANT1  | 6.53                         | 30          | 6.53       | 36          | Pass    |
| 11N20MIMO | 2462         | ANT2  | 6.44                         | 30          | 6.44       | 36          | Pass    |

|           |      |       |              |    |       |    |      |
|-----------|------|-------|--------------|----|-------|----|------|
| 11N20MIMO | 2462 | total | 9.50         | 30 | 9.50  | 36 | Pass |
| 11N40MIMO | 2422 | ANT1  | 3.96         | 30 | 3.96  | 36 | Pass |
| 11N40MIMO | 2422 | ANT2  | 3.84         | 30 | 3.84  | 36 | Pass |
| 11N40MIMO | 2422 | total | 6.91         | 30 | 6.91  | 36 | Pass |
| 11N40MIMO | 2437 | ANT1  | 3.82         | 30 | 3.82  | 36 | Pass |
| 11N40MIMO | 2437 | ANT2  | 3.89         | 30 | 3.89  | 36 | Pass |
| 11N40MIMO | 2437 | total | 6.87         | 30 | 6.87  | 36 | Pass |
| 11N40MIMO | 2452 | ANT1  | 3.84         | 30 | 3.84  | 36 | Pass |
| 11N40MIMO | 2452 | ANT2  | 3.73         | 30 | 3.73  | 36 | Pass |
| 11N40MIMO | 2452 | total | 6.80         | 30 | 6.80  | 36 | Pass |
| 11AX20SU  | 2412 | ANT1  | 15.56        | 30 | 18.15 | 36 | Pass |
| 11AX20SU  | 2412 | ANT2  | 14.12        | 30 | 16.71 | 36 | Pass |
| 11AX20SU  | 2412 | total | 17.90        | 30 | 20.49 | 36 | Pass |
| 11AX20SU  | 2437 | ANT1  | 15.63        | 30 | 18.22 | 36 | Pass |
| 11AX20SU  | 2437 | ANT2  | 14.52        | 30 | 17.11 | 36 | Pass |
| 11AX20SU  | 2437 | total | <b>18.10</b> | 30 | 20.69 | 36 | Pass |
| 11AX20SU  | 2462 | ANT1  | 15.22        | 30 | 17.81 | 36 | Pass |
| 11AX20SU  | 2462 | ANT2  | 14.33        | 30 | 16.92 | 36 | Pass |
| 11AX20SU  | 2462 | total | 17.80        | 30 | 20.39 | 36 | Pass |
| 11AX40SU  | 2422 | ANT1  | 13.21        | 30 | 15.80 | 36 | Pass |
| 11AX40SU  | 2422 | ANT2  | 12.05        | 30 | 14.64 | 36 | Pass |
| 11AX40SU  | 2422 | total | 15.70        | 30 | 18.29 | 36 | Pass |
| 11AX40SU  | 2437 | ANT1  | 13.36        | 30 | 15.95 | 36 | Pass |
| 11AX40SU  | 2437 | ANT2  | 12.20        | 30 | 14.79 | 36 | Pass |
| 11AX40SU  | 2437 | total | 15.80        | 30 | 18.39 | 36 | Pass |
| 11AX40SU  | 2452 | ANT1  | 12.97        | 30 | 15.56 | 36 | Pass |
| 11AX40SU  | 2452 | ANT2  | 12.20        | 30 | 14.79 | 36 | Pass |
| 11AX40SU  | 2452 | total | 15.60        | 30 | 18.19 | 36 | Pass |

| Test Mode   | Antenna | Channel | Ru Size | Ru Index | Peak Power [dBm] | Conducted Limit [dBm] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |    |      |
|-------------|---------|---------|---------|----------|------------------|-----------------------|------------|------------------|---------|----|------|
| 11AX20 MIMO | Ant1    | 2412    | 26Tone  | RU0      | 14.01            | 30                    | 16.60      | 36               | PASS    |    |      |
|             |         |         |         | RU4      | 14.29            | 30                    | 16.88      | 36               | PASS    |    |      |
|             |         |         |         | RU8      | 14.25            | 30                    | 16.84      | 36               | PASS    |    |      |
|             |         |         | 52Tone  | RU37     | 14.12            | 30                    | 16.71      | 36               | PASS    |    |      |
|             |         |         |         | RU38     | 14.23            | 30                    | 16.82      | 36               | PASS    |    |      |
|             |         |         |         | RU39     | 14.38            | 30                    | 16.97      | 36               | PASS    |    |      |
|             |         |         | 106Tone | RU40     | 14.35            | 30                    | 16.94      | 36               | PASS    |    |      |
|             |         |         |         | RU53     | 14.35            | 30                    | 16.94      | 36               | PASS    |    |      |
|             |         |         |         | RU54     | 14.51            | 30                    | 17.10      | 36               | PASS    |    |      |
|             |         |         | Ant2    | 2412     | 26Tone           | RU0                   | 14.20      | 30               | 16.79   | 36 | PASS |
|             |         |         |         |          |                  | RU4                   | 14.32      | 30               | 16.91   | 36 | PASS |
|             |         |         |         |          |                  | RU8                   | 14.33      | 30               | 16.92   | 36 | PASS |
|             | 52Tone  | RU37    |         |          | 14.29            | 30                    | 16.88      | 36               | PASS    |    |      |
|             |         | RU38    |         |          | 14.33            | 30                    | 16.92      | 36               | PASS    |    |      |
|             |         | RU39    |         |          | 14.30            | 30                    | 16.89      | 36               | PASS    |    |      |
|             | 106Tone | RU40    |         |          | 14.41            | 30                    | 17.00      | 36               | PASS    |    |      |
|             |         | RU53    |         |          | 14.70            | 30                    | 17.29      | 36               | PASS    |    |      |
|             |         | RU54    |         |          | 14.80            | 30                    | 17.39      | 36               | PASS    |    |      |
|             | total   | 2412    |         |          | 26Tone           | RU0                   | 17.12      | 30               | 19.71   | 36 | PASS |
|             |         |         |         |          |                  | RU4                   | 17.32      | 30               | 19.91   | 36 | PASS |
|             |         |         |         |          |                  | RU8                   | 17.30      | 30               | 19.89   | 36 | PASS |
|             |         |         | 52Tone  | RU37     | 17.22            | 30                    | 19.81      | 36               | PASS    |    |      |
|             |         |         |         | RU38     | 17.29            | 30                    | 19.88      | 36               | PASS    |    |      |
|             |         |         |         | RU39     | 17.35            | 30                    | 19.94      | 36               | PASS    |    |      |
|             |         |         | 106Tone | RU40     | 17.39            | 30                    | 19.98      | 36               | PASS    |    |      |
|             |         |         |         | RU53     | 17.54            | 30                    | 20.13      | 36               | PASS    |    |      |
|             |         |         |         | RU54     | 17.67            | 30                    | 20.26      | 36               | PASS    |    |      |
|             |         |         | Ant1    | 2437     | 26Tone           | RU0                   | 14.16      | 30               | 16.75   | 36 | PASS |
|             |         |         |         |          |                  | RU4                   | 14.07      | 30               | 16.66   | 36 | PASS |
|             |         |         |         |          |                  | RU8                   | 13.98      | 30               | 16.57   | 36 | PASS |
|             | 52Tone  | RU37    |         |          | 14.08            | 30                    | 16.67      | 36               | PASS    |    |      |
|             |         | RU38    |         |          | 14.14            | 30                    | 16.73      | 36               | PASS    |    |      |
|             |         | RU39    |         |          | 13.99            | 30                    | 16.58      | 36               | PASS    |    |      |
|             | 106Tone | RU40    |         |          | 14.19            | 30                    | 16.78      | 36               | PASS    |    |      |
|             |         | RU53    |         |          | 14.19            | 30                    | 16.78      | 36               | PASS    |    |      |
|             |         | RU54    |         |          | 14.29            | 30                    | 16.88      | 36               | PASS    |    |      |
|             | Ant2    | 2437    |         |          | 26Tone           | RU0                   | 14.62      | 30               | 17.21   | 36 | PASS |
|             |         |         |         |          |                  | RU4                   | 14.62      | 30               | 17.21   | 36 | PASS |
|             |         |         |         |          |                  | RU8                   | 14.29      | 30               | 16.88   | 36 | PASS |
|             |         |         | 52Tone  | RU37     | 14.62            | 30                    | 17.21      | 36               | PASS    |    |      |
|             |         |         |         | RU38     | 14.59            | 30                    | 17.18      | 36               | PASS    |    |      |
|             |         |         |         | RU39     | 14.48            | 30                    | 17.07      | 36               | PASS    |    |      |
|             |         |         | 106Tone | RU40     | 14.31            | 30                    | 16.90      | 36               | PASS    |    |      |
|             |         |         |         | RU53     | 14.66            | 30                    | 17.25      | 36               | PASS    |    |      |
|             |         |         |         | RU54     | 14.47            | 30                    | 17.06      | 36               | PASS    |    |      |
|             |         |         | total   | 2437     | 26Tone           | RU0                   | 17.41      | 30               | 20.00   | 36 | PASS |
|             |         |         |         |          |                  | RU4                   | 17.36      | 30               | 19.95   | 36 | PASS |

|                |       |         |         |       |       |       |       |      |      |
|----------------|-------|---------|---------|-------|-------|-------|-------|------|------|
|                |       |         | 52Tone  | RU8   | 17.15 | 30    | 19.74 | 36   | PASS |
|                |       |         |         | RU37  | 17.37 | 30    | 19.96 | 36   | PASS |
|                |       |         |         | RU38  | 17.38 | 30    | 19.97 | 36   | PASS |
|                |       |         |         | RU39  | 17.25 | 30    | 19.84 | 36   | PASS |
|                |       |         | 106Tone | RU40  | 17.26 | 30    | 19.85 | 36   | PASS |
|                |       |         |         | RU53  | 17.44 | 30    | 20.03 | 36   | PASS |
|                |       |         |         | RU54  | 17.39 | 30    | 19.98 | 36   | PASS |
|                |       |         |         | RU0   | 13.81 | 30    | 16.40 | 36   | PASS |
|                | Ant1  | 2462    | 26Tone  | RU4   | 14.00 | 30    | 16.59 | 36   | PASS |
|                |       |         |         | RU8   | 14.29 | 30    | 16.88 | 36   | PASS |
|                |       |         |         | RU37  | 13.96 | 30    | 16.55 | 36   | PASS |
|                |       |         | 52Tone  | RU38  | 14.00 | 30    | 16.59 | 36   | PASS |
|                |       |         |         | RU39  | 14.25 | 30    | 16.84 | 36   | PASS |
|                |       |         |         | RU40  | 14.25 | 30    | 16.84 | 36   | PASS |
|                |       |         | 106Tone | RU53  | 13.99 | 30    | 16.58 | 36   | PASS |
|                |       |         |         | RU54  | 14.25 | 30    | 16.84 | 36   | PASS |
|                | Ant2  | 2462    | 26Tone  | RU0   | 13.61 | 30    | 16.20 | 36   | PASS |
|                |       |         |         | RU4   | 13.88 | 30    | 16.47 | 36   | PASS |
|                |       |         |         | RU8   | 13.99 | 30    | 16.58 | 36   | PASS |
|                |       |         | 52Tone  | RU37  | 13.68 | 30    | 16.27 | 36   | PASS |
|                |       |         |         | RU38  | 13.86 | 30    | 16.45 | 36   | PASS |
|                |       |         |         | RU39  | 14.01 | 30    | 16.60 | 36   | PASS |
|                |       |         | 106Tone | RU40  | 14.03 | 30    | 16.62 | 36   | PASS |
|                |       |         |         | RU53  | 13.78 | 30    | 16.37 | 36   | PASS |
| total          | 2462  | 26Tone  | RU54    | 13.93 | 30    | 16.52 | 36    | PASS |      |
|                |       |         | RU0     | 16.72 | 30    | 19.31 | 36    | PASS |      |
|                |       |         | RU4     | 16.95 | 30    | 19.54 | 36    | PASS |      |
|                |       | 52Tone  | RU8     | 17.15 | 30    | 19.74 | 36    | PASS |      |
|                |       |         | RU37    | 16.83 | 30    | 19.42 | 36    | PASS |      |
|                |       |         | RU38    | 16.94 | 30    | 19.53 | 36    | PASS |      |
|                |       | 106Tone | RU39    | 17.14 | 30    | 19.73 | 36    | PASS |      |
|                |       |         | RU40    | 17.15 | 30    | 19.74 | 36    | PASS |      |
| 11AX40<br>MIMO | Ant1  | 2422    | 242Tone | RU53  | 16.90 | 30    | 19.49 | 36   | PASS |
|                |       |         |         | RU54  | 17.10 | 30    | 19.69 | 36   | PASS |
|                | Ant2  | 2422    | 242Tone | RU61  | 16.70 | 30    | 19.29 | 36   | PASS |
|                |       |         |         | RU62  | 16.52 | 30    | 19.11 | 36   | PASS |
|                | total | 2422    | 242Tone | RU61  | 16.97 | 30    | 19.56 | 36   | PASS |
|                |       |         |         | RU62  | 16.86 | 30    | 19.45 | 36   | PASS |
|                | Ant1  | 2437    | 242Tone | RU61  | 19.85 | 30    | 22.44 | 36   | PASS |
|                |       |         |         | RU62  | 19.70 | 30    | 22.29 | 36   | PASS |
|                | Ant2  | 2437    | 242Tone | RU61  | 16.85 | 30    | 19.44 | 36   | PASS |
|                |       |         |         | RU62  | 16.81 | 30    | 19.40 | 36   | PASS |
|                | total | 2437    | 242Tone | RU61  | 17.34 | 30    | 19.93 | 36   | PASS |
|                |       |         |         | RU62  | 16.89 | 30    | 19.48 | 36   | PASS |
|                | Ant1  | 2452    | 242Tone | RU61  | 20.11 | 30    | 22.70 | 36   | PASS |
|                |       |         |         | RU62  | 19.86 | 30    | 22.45 | 36   | PASS |
|                | Ant2  | 2452    | 242Tone | RU61  | 16.55 | 30    | 19.14 | 36   | PASS |
|                |       |         |         | RU62  | 16.77 | 30    | 19.36 | 36   | PASS |
| total          | 2452  | 242Tone | RU61    | 16.52 | 30    | 19.11 | 36    | PASS |      |
|                |       |         | RU62    | 16.70 | 30    | 19.29 | 36    | PASS |      |
|                |       |         |         | RU61  | 19.55 | 30    | 22.14 | 36   | PASS |

|  |  |  |  |      |       |    |       |    |      |
|--|--|--|--|------|-------|----|-------|----|------|
|  |  |  |  | RU62 | 19.75 | 30 | 22.34 | 36 | PASS |
|--|--|--|--|------|-------|----|-------|----|------|

Note 1: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

Note 2: HE20 SU represents HE20 242Tone, and HE40 SU represents HE40 484Tone, so for these Tones test performed with SU mode.



## 6. Power Spectral Density

### 6.1. Block diagram of test setup

Same as section 4.1

### 6.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

|                  |  |
|------------------|--|
| Center frequency | DTS Channel center frequency                         |
| RBW:             | $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ |
| VBW:             | $\geq 3\text{RBW}$                                   |
| Span             | 1.5 times the DTS bandwidth                          |
| Detector Mode:   | RMS  |
| Sweep time:      | auto   |
| Trace mode       | Max hold   |

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

(4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.4. Test result

| Test Mode | Test Channel | Ant  | PSD [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|--------------|------|----------------|------------------|---------|
| 11B       | 2412         | ANT1 | -13.88         | 8.00             | Pass    |
| 11B       | 2412         | ANT2 | -13.99         | 8.00             | Pass    |
| 11B       | 2437         | ANT1 | -15.3          | 8.00             | Pass    |
| 11B       | 2437         | ANT2 | -14.26         | 8.00             | Pass    |
| 11B       | 2462         | ANT1 | -15.38         | 8.00             | Pass    |
| 11B       | 2462         | ANT2 | -15.26         | 8.00             | Pass    |
| 11G       | 2412         | ANT1 | -16.09         | 8.00             | Pass    |
| 11G       | 2412         | ANT2 | -15.97         | 8.00             | Pass    |
| 11G       | 2437         | ANT1 | -15.86         | 8.00             | Pass    |
| 11G       | 2437         | ANT2 | -17.12         | 8.00             | Pass    |
| 11G       | 2462         | ANT1 | -16.49         | 8.00             | Pass    |
| 11G       | 2462         | ANT2 | -16.83         | 8.00             | Pass    |

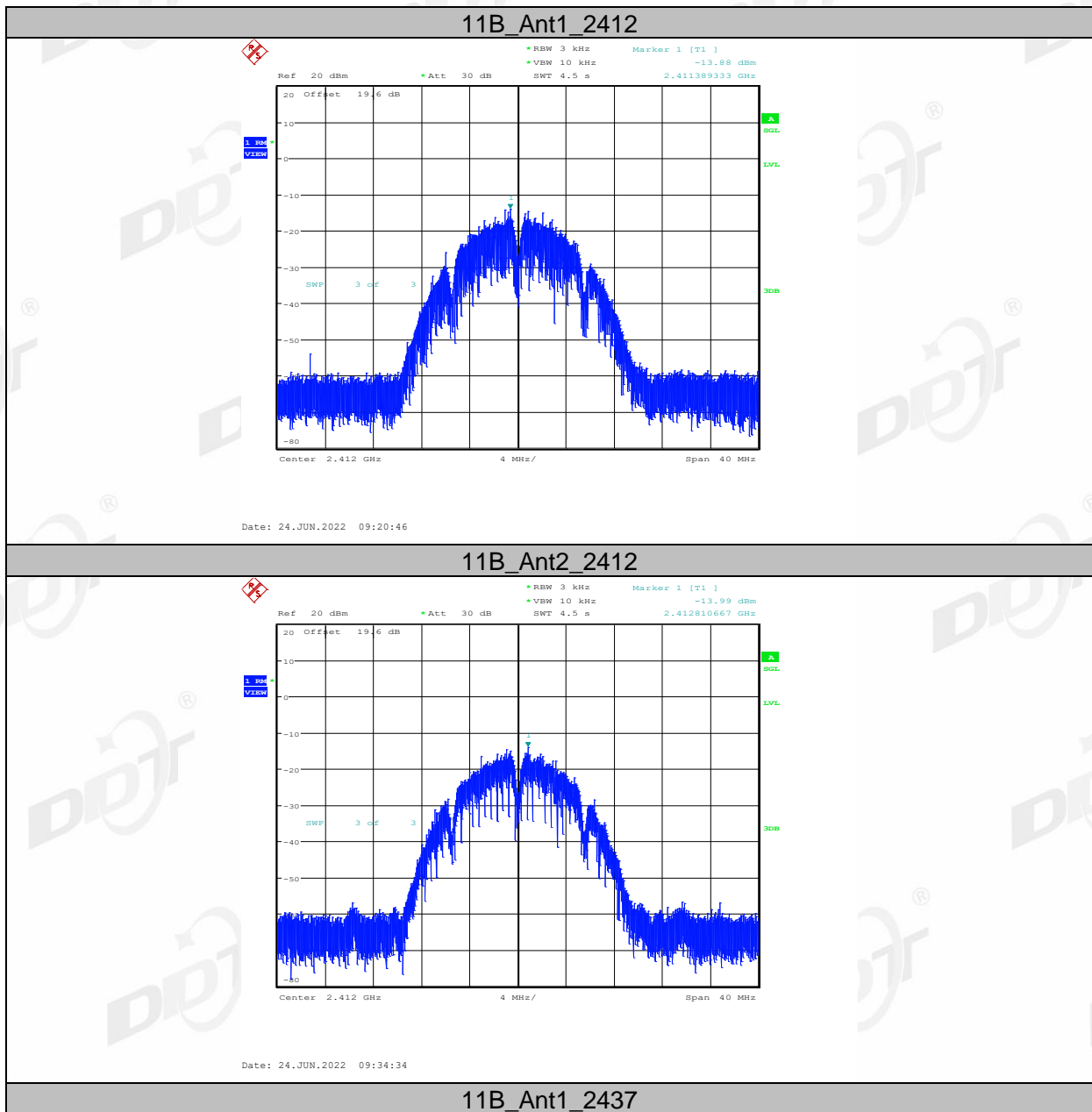
|           |      |       |        |      |      |
|-----------|------|-------|--------|------|------|
| 11N20MIMO | 2412 | ANT1  | -21.86 | 8.00 | Pass |
| 11N20MIMO | 2412 | ANT2  | -19.77 | 8.00 | Pass |
| 11N20MIMO | 2412 | total | -17.68 | 8.00 | Pass |
| 11N20MIMO | 2437 | ANT1  | -21.25 | 8.00 | Pass |
| 11N20MIMO | 2437 | ANT2  | -20.31 | 8.00 | Pass |
| 11N20MIMO | 2437 | total | -17.74 | 8.00 | Pass |
| 11N20MIMO | 2462 | ANT1  | -19.93 | 8.00 | Pass |
| 11N20MIMO | 2462 | ANT2  | -21.63 | 8.00 | Pass |
| 11N20MIMO | 2462 | total | -17.69 | 8.00 | Pass |
| 11N40MIMO | 2422 | ANT1  | -25.18 | 8.00 | Pass |
| 11N40MIMO | 2422 | ANT2  | -25.64 | 8.00 | Pass |
| 11N40MIMO | 2422 | total | -22.39 | 8.00 | Pass |
| 11N40MIMO | 2437 | ANT1  | -26.01 | 8.00 | Pass |
| 11N40MIMO | 2437 | ANT2  | -25.13 | 8.00 | Pass |
| 11N40MIMO | 2437 | total | -22.54 | 8.00 | Pass |
| 11N40MIMO | 2452 | ANT1  | -24.47 | 8.00 | Pass |
| 11N40MIMO | 2452 | ANT2  | -25.93 | 8.00 | Pass |
| 11N40MIMO | 2452 | total | -22.13 | 8.00 | Pass |
| 11AX20SU  | 2412 | ANT1  | -12.84 | 8.00 | Pass |
| 11AX20SU  | 2412 | ANT2  | -13.53 | 8.00 | Pass |
| 11AX20SU  | 2412 | total | -10.16 | 8.00 | Pass |
| 11AX20SU  | 2437 | ANT1  | -12.61 | 8.00 | Pass |
| 11AX20SU  | 2437 | ANT2  | -13.15 | 8.00 | Pass |
| 11AX20SU  | 2437 | total | -9.86  | 8.00 | Pass |
| 11AX20SU  | 2462 | ANT1  | -12.65 | 8.00 | Pass |
| 11AX20SU  | 2462 | ANT2  | -12.96 | 8.00 | Pass |
| 11AX20SU  | 2462 | total | -9.79  | 8.00 | Pass |
| 11AX40SU  | 2422 | ANT1  | -17.42 | 8.00 | Pass |
| 11AX40SU  | 2422 | ANT2  | -18.34 | 8.00 | Pass |
| 11AX40SU  | 2422 | total | -14.85 | 8.00 | Pass |
| 11AX40SU  | 2437 | ANT1  | -16.65 | 8.00 | Pass |
| 11AX40SU  | 2437 | ANT2  | -17.40 | 8.00 | Pass |
| 11AX40SU  | 2437 | total | -14.00 | 8.00 | Pass |
| 11AX40SU  | 2452 | ANT1  | -17.70 | 8.00 | Pass |
| 11AX40SU  | 2452 | ANT2  | -17.74 | 8.00 | Pass |
| 11AX40SU  | 2452 | total | -14.71 | 8.00 | Pass |

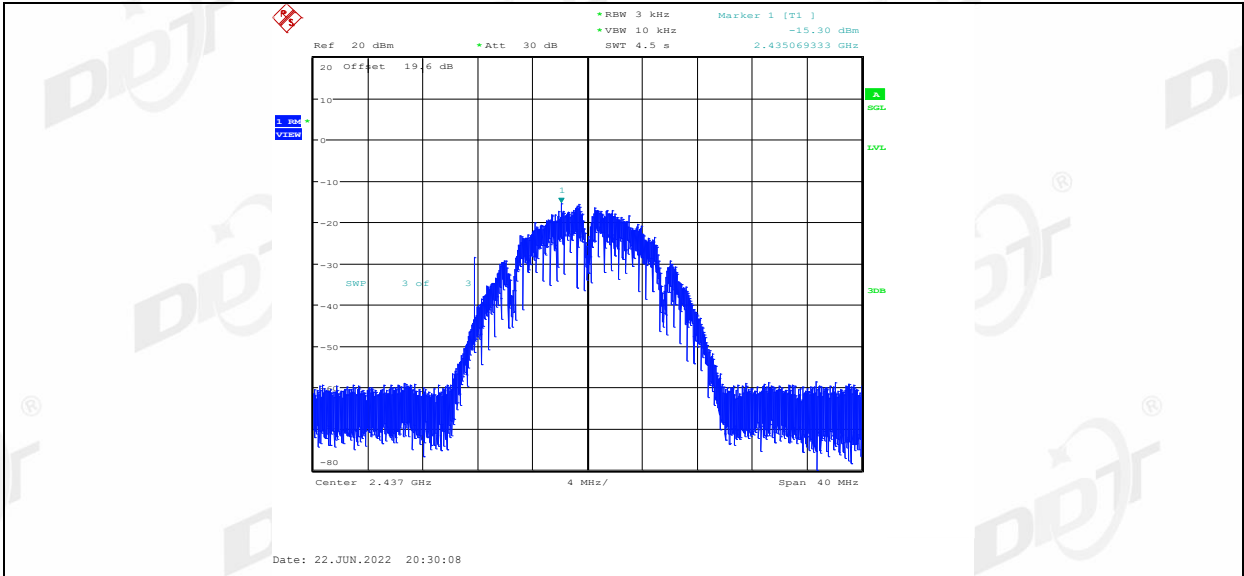


| Test Mode      | Antenna | Channel | Ru Size | Ru Index | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |       |      |
|----------------|---------|---------|---------|----------|-------------------|------------------|---------|-------|------|
| 11AX20<br>MIMO | Ant1    | 2412    | 26Tone  | RU0      | -3.98             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU4      | -3.48             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU8      | -3.70             | ≤8.00            | PASS    |       |      |
|                |         |         | 52Tone  | RU37     | -6.79             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU38     | -6.38             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU39     | -6.80             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU40     | -6.63             | ≤8.00            | PASS    |       |      |
|                |         |         | 106Tone | RU53     | -9.69             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU54     | -10.45            | ≤8.00            | PASS    |       |      |
|                |         |         | Ant2    | 2412     | 26Tone            | RU0              | -2.92   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU4              | -3.12   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU8              | -3.82   | ≤8.00 | PASS |
|                | 52Tone  | RU37    |         |          | -7.30             | ≤8.00            | PASS    |       |      |
|                |         | RU38    |         |          | -7.04             | ≤8.00            | PASS    |       |      |
|                |         | RU39    |         |          | -6.57             | ≤8.00            | PASS    |       |      |
|                |         | RU40    |         |          | -5.86             | ≤8.00            | PASS    |       |      |
|                | 106Tone | RU53    |         |          | -10.12            | ≤8.00            | PASS    |       |      |
|                |         | RU54    |         |          | -9.49             | ≤8.00            | PASS    |       |      |
|                | total   | 2412    |         |          | 26Tone            | RU0              | -0.41   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU4              | -0.29   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU8              | -0.75   | ≤8.00 | PASS |
|                |         |         | 52Tone  | RU37     | -4.03             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU38     | -3.69             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU39     | -3.67             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU40     | -3.22             | ≤8.00            | PASS    |       |      |
|                |         |         | 106Tone | RU53     | -6.89             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU54     | -6.93             | ≤8.00            | PASS    |       |      |
|                |         |         | Ant1    | 2437     | 26Tone            | RU0              | -2.64   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU4              | -4.08   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU8              | -4.36   | ≤8.00 | PASS |
|                | 52Tone  | RU37    |         |          | -6.72             | ≤8.00            | PASS    |       |      |
|                |         | RU38    |         |          | -5.46             | ≤8.00            | PASS    |       |      |
|                |         | RU39    |         |          | -6.86             | ≤8.00            | PASS    |       |      |
|                |         | RU40    |         |          | -7.22             | ≤8.00            | PASS    |       |      |
|                | 106Tone | RU53    |         |          | -10.50            | ≤8.00            | PASS    |       |      |
|                |         | RU54    |         |          | -10.74            | ≤8.00            | PASS    |       |      |
|                | Ant2    | 2437    |         |          | 26Tone            | RU0              | -3.60   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU4              | -2.96   | ≤8.00 | PASS |
|                |         |         |         |          |                   | RU8              | -3.98   | ≤8.00 | PASS |
|                |         |         | 52Tone  | RU37     | -6.54             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU38     | -5.19             | ≤8.00            | PASS    |       |      |
|                |         |         |         | RU39     | -7.36             | ≤8.00            | PASS    |       |      |
| RU40           |         |         |         | -7.31    | ≤8.00             | PASS             |         |       |      |
| 106Tone        |         |         | RU53    | -9.13    | ≤8.00             | PASS             |         |       |      |
|                |         |         | RU54    | -9.62    | ≤8.00             | PASS             |         |       |      |
| total          |         |         | 2437    | 26Tone   | RU0               | -0.08            | ≤8.00   | PASS  |      |
|                |         |         |         |          | RU4               | -0.47            | ≤8.00   | PASS  |      |
|                |         |         |         |          | RU8               | -1.16            | ≤8.00   | PASS  |      |

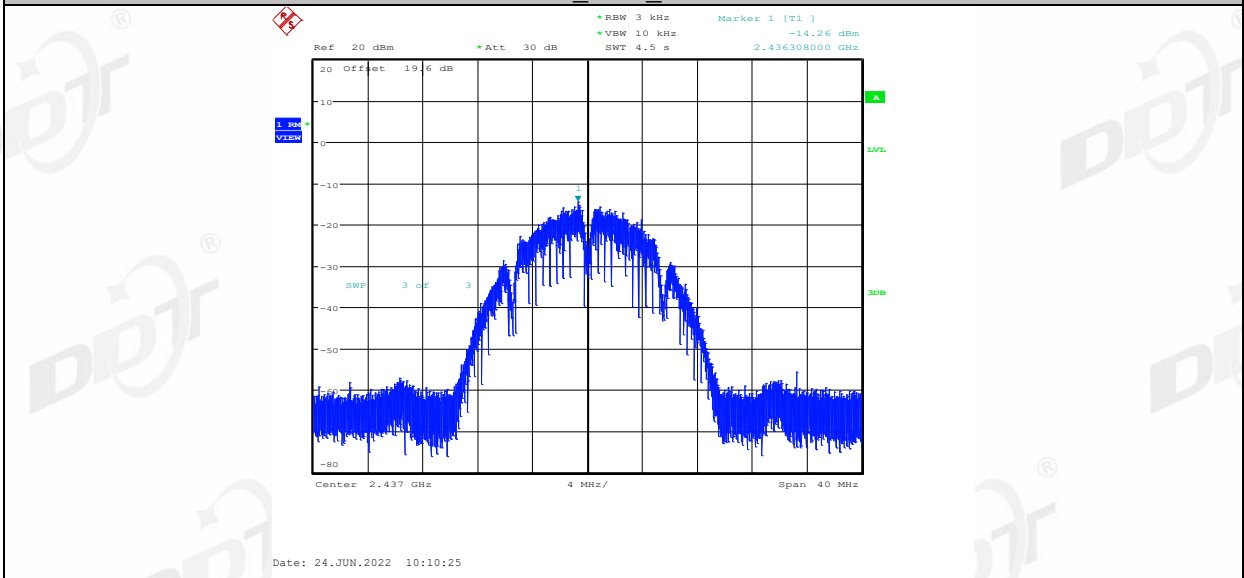
|                |         |         |         |        |        |       |       |      |
|----------------|---------|---------|---------|--------|--------|-------|-------|------|
|                | Ant1    | 2462    | 52Tone  | RU37   | -3.62  | ≤8.00 | PASS  |      |
|                |         |         |         | RU38   | -2.31  | ≤8.00 | PASS  |      |
|                |         |         |         | RU39   | -4.09  | ≤8.00 | PASS  |      |
|                |         |         |         | RU40   | -4.25  | ≤8.00 | PASS  |      |
|                |         | 106Tone | RU53    | -6.75  | ≤8.00  | PASS  |       |      |
|                |         |         | RU54    | -7.13  | ≤8.00  | PASS  |       |      |
|                |         | Ant2    | 2462    | 26Tone | RU0    | -3.10 | ≤8.00 | PASS |
|                |         |         |         |        | RU4    | -2.55 | ≤8.00 | PASS |
|                | RU8     |         |         |        | -2.51  | ≤8.00 | PASS  |      |
|                | 52Tone  |         | RU37    | -6.51  | ≤8.00  | PASS  |       |      |
|                |         |         | RU38    | -6.99  | ≤8.00  | PASS  |       |      |
|                |         |         | RU39    | -5.10  | ≤8.00  | PASS  |       |      |
|                |         |         | RU40    | -5.13  | ≤8.00  | PASS  |       |      |
|                | 106Tone |         | RU53    | -10.64 | ≤8.00  | PASS  |       |      |
|                |         | RU54    | -9.25   | ≤8.00  | PASS   |       |       |      |
|                | total   | 2462    | 26Tone  | RU0    | -4.04  | ≤8.00 | PASS  |      |
|                |         |         |         | RU4    | -3.73  | ≤8.00 | PASS  |      |
|                |         |         |         | RU8    | -3.88  | ≤8.00 | PASS  |      |
|                |         | 52Tone  | RU37    | -6.61  | ≤8.00  | PASS  |       |      |
|                |         |         | RU38    | -6.22  | ≤8.00  | PASS  |       |      |
|                |         |         | RU39    | -5.59  | ≤8.00  | PASS  |       |      |
|                |         |         | RU40    | -6.91  | ≤8.00  | PASS  |       |      |
|                |         | 106Tone | RU53    | -10.38 | ≤8.00  | PASS  |       |      |
|                | RU54    |         | -10.12  | ≤8.00  | PASS   |       |       |      |
| 11AX40<br>MIMO | Ant1    | 2422    | 242Tone | RU61   | -12.41 | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -12.27 | ≤8.00 | PASS  |      |
|                | Ant2    | 2422    | 242Tone | RU61   | -12.03 | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -11.61 | ≤8.00 | PASS  |      |
|                | total   | 2422    | 242Tone | RU61   | -9.21  | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -8.92  | ≤8.00 | PASS  |      |
|                | Ant1    | 2437    | 242Tone | RU61   | -12.34 | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -12.21 | ≤8.00 | PASS  |      |
|                | Ant2    | 2437    | 242Tone | RU61   | -11.33 | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -10.77 | ≤8.00 | PASS  |      |
|                | total   | 2437    | 242Tone | RU61   | -8.80  | ≤8.00 | PASS  |      |
|                |         |         |         | RU62   | -8.42  | ≤8.00 | PASS  |      |
| Ant1           | 2452    | 242Tone | RU61    | -12.62 | ≤8.00  | PASS  |       |      |
|                |         |         | RU62    | -12.68 | ≤8.00  | PASS  |       |      |
| Ant2           | 2452    | 242Tone | RU61    | -11.91 | ≤8.00  | PASS  |       |      |
|                |         |         | RU62    | -11.37 | ≤8.00  | PASS  |       |      |
| total          | 2452    | 242Tone | RU61    | -9.24  | ≤8.00  | PASS  |       |      |
|                |         |         | RU62    | -8.97  | ≤8.00  | PASS  |       |      |

### 6.5. Original test data

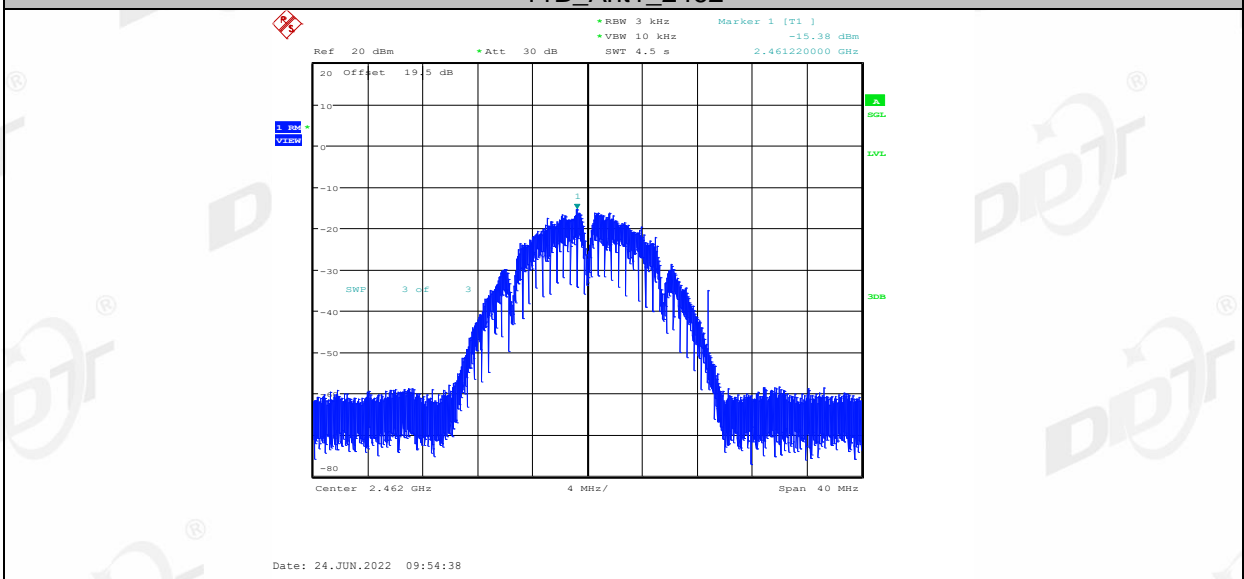




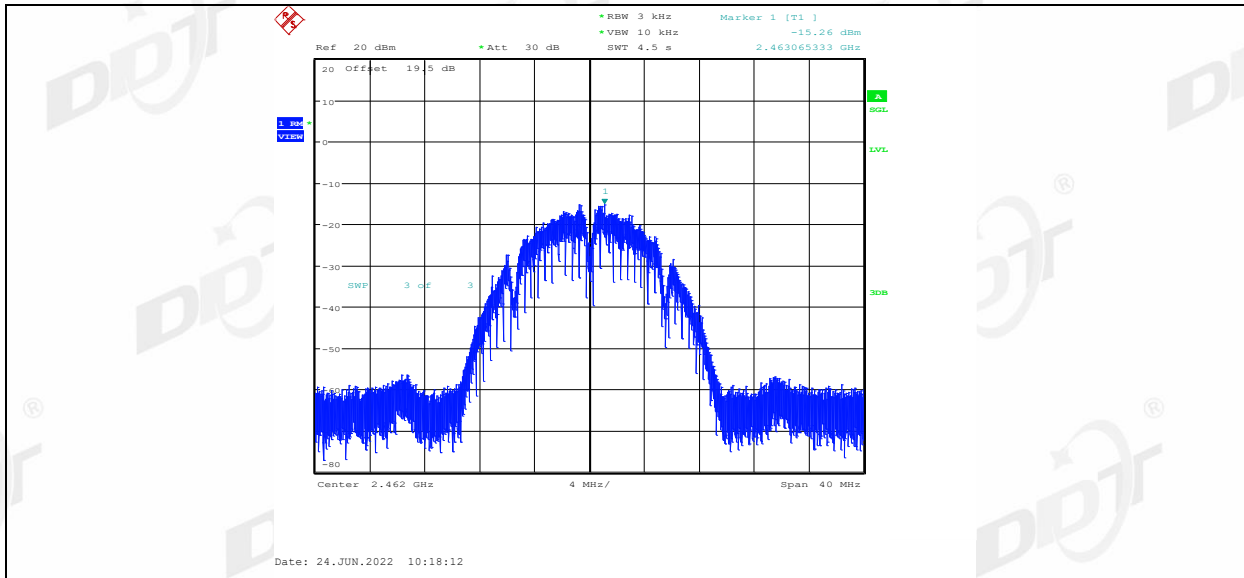
11B\_Ant2\_2437



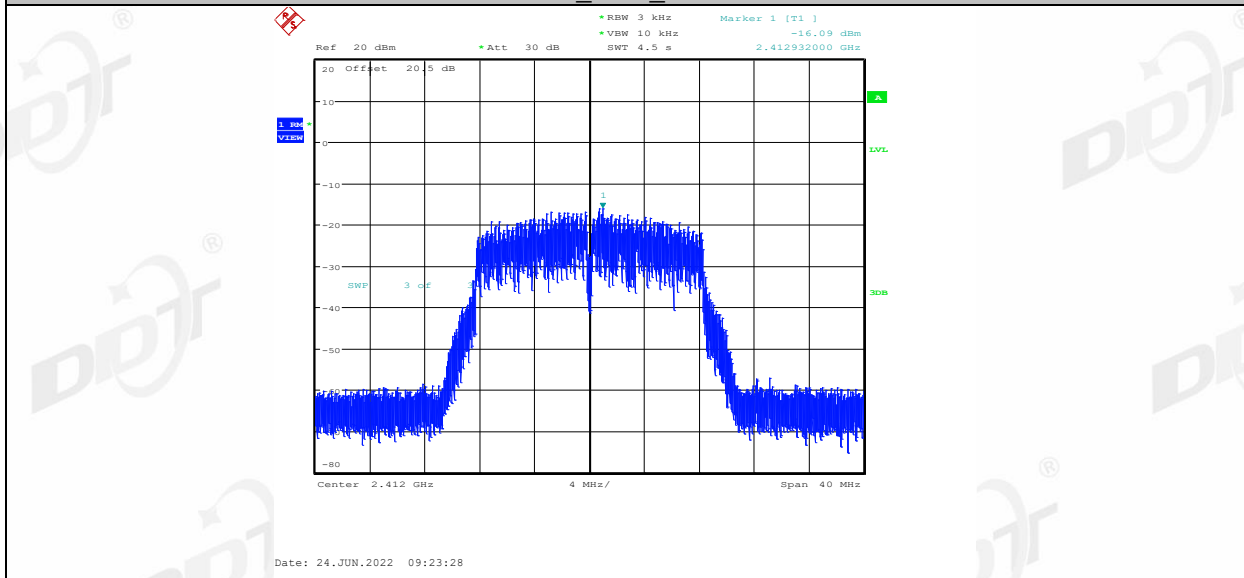
11B\_Ant1\_2462



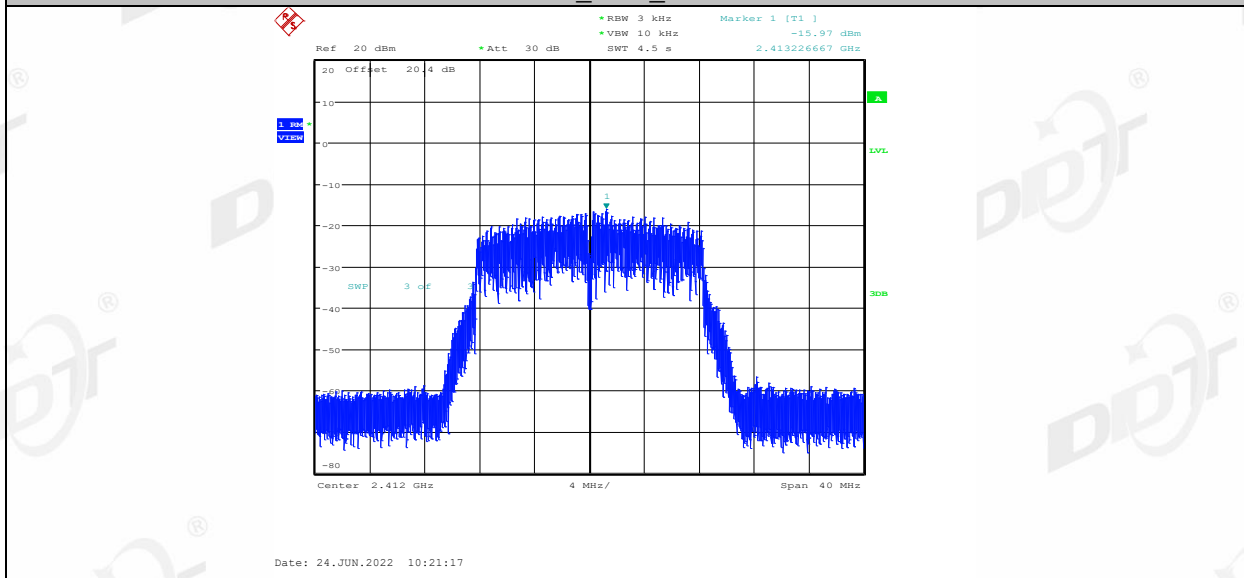
11B\_Ant2\_2462



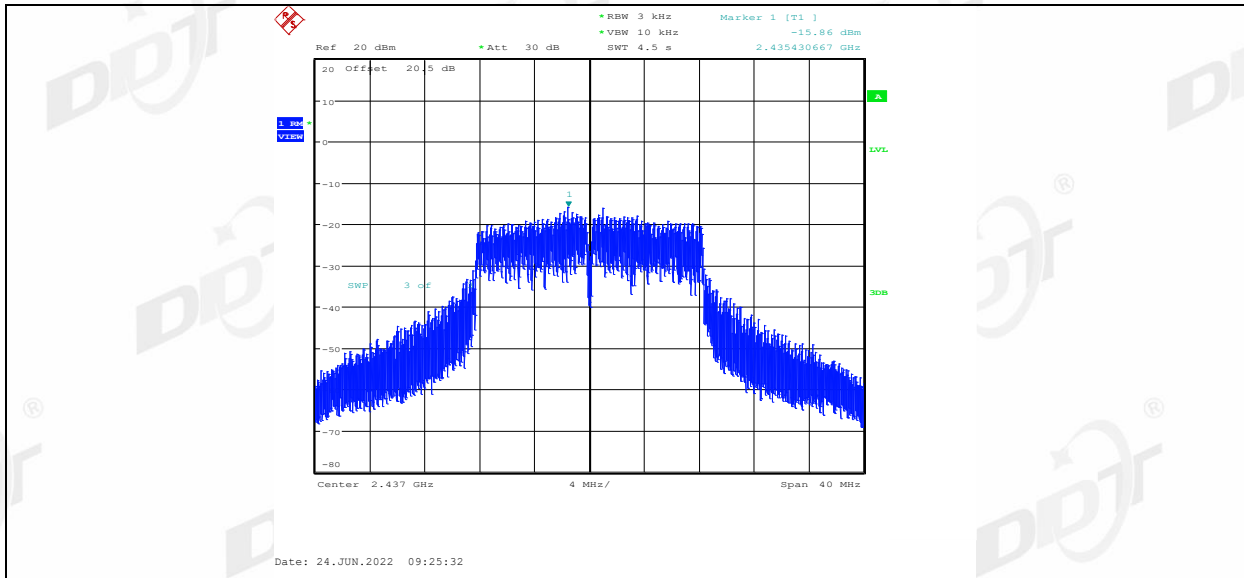
11G\_Ant1\_2412



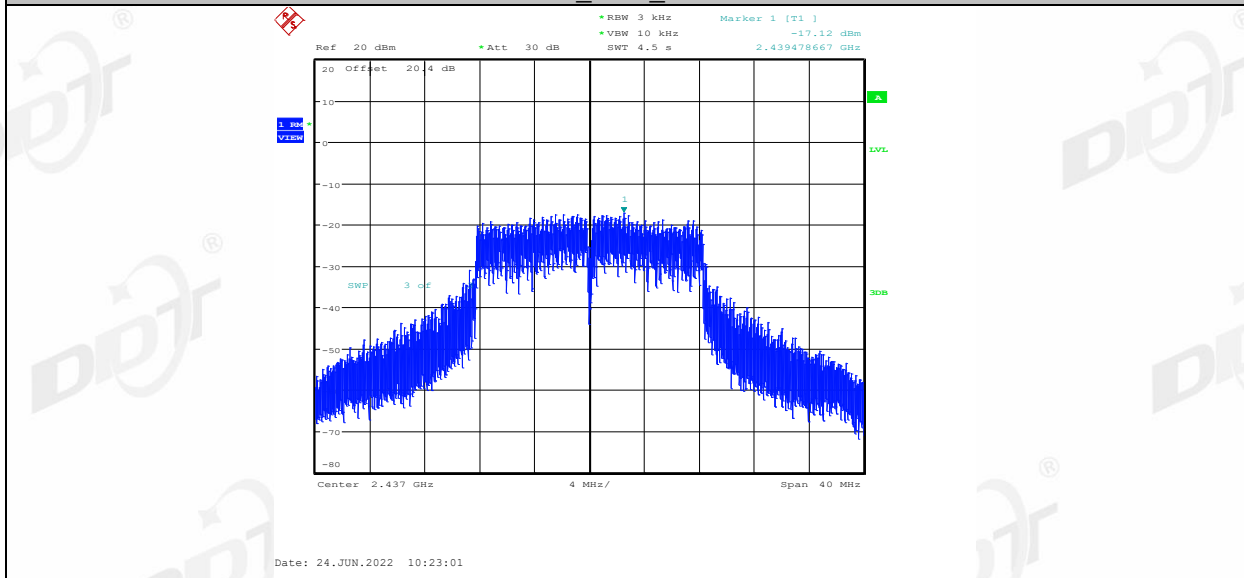
11G\_Ant2\_2412



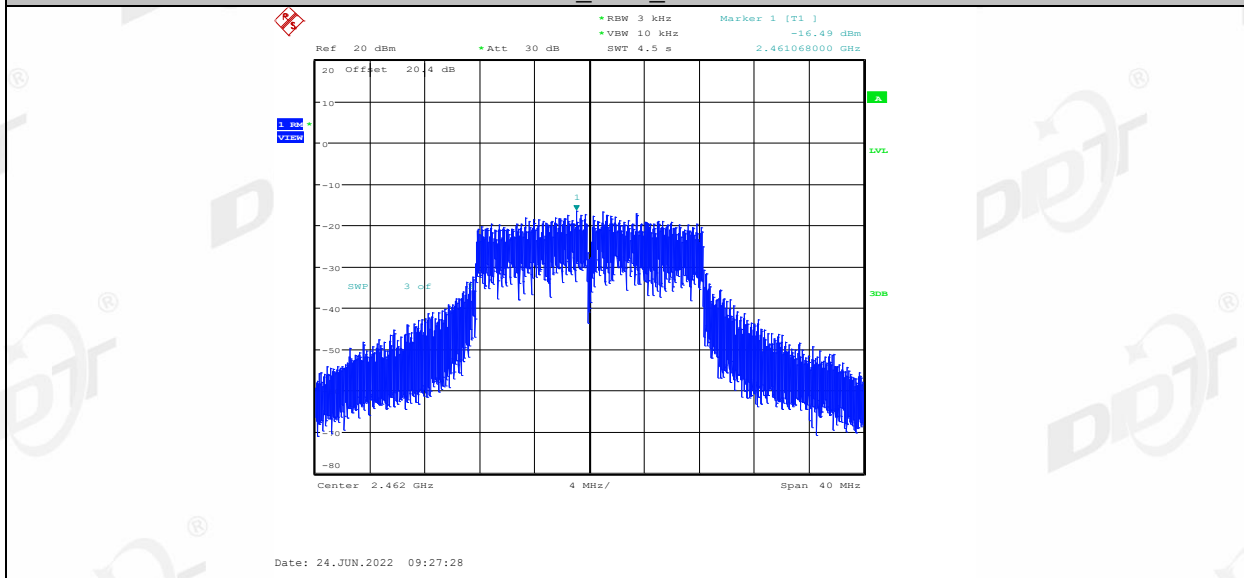
11G\_Ant1\_2437



11G\_Ant2\_2437

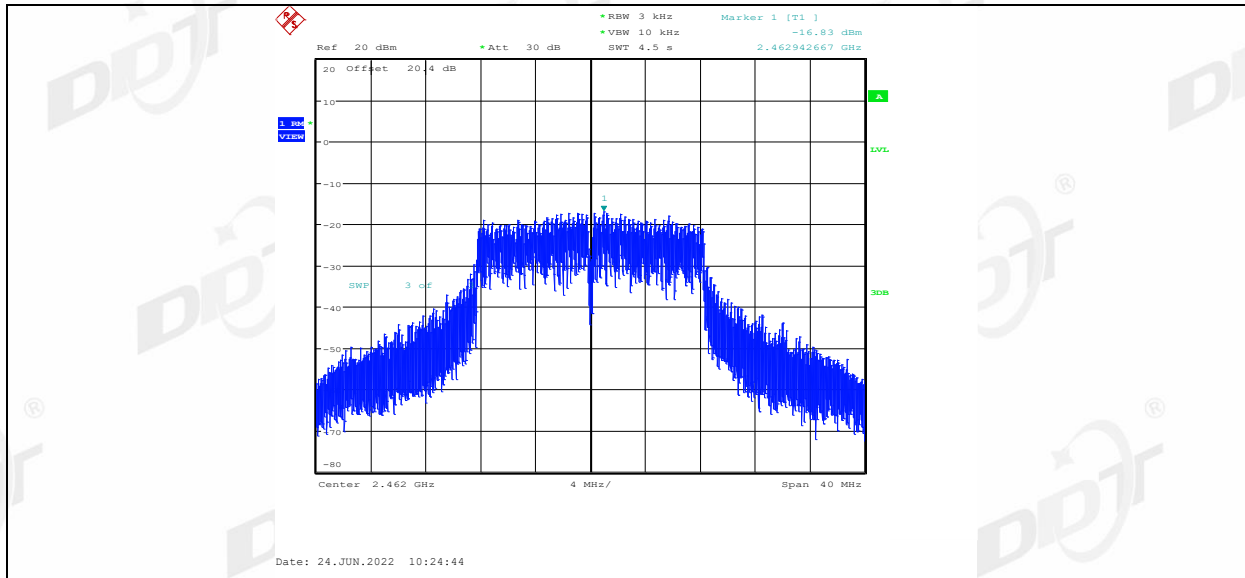


11G\_Ant1\_2462

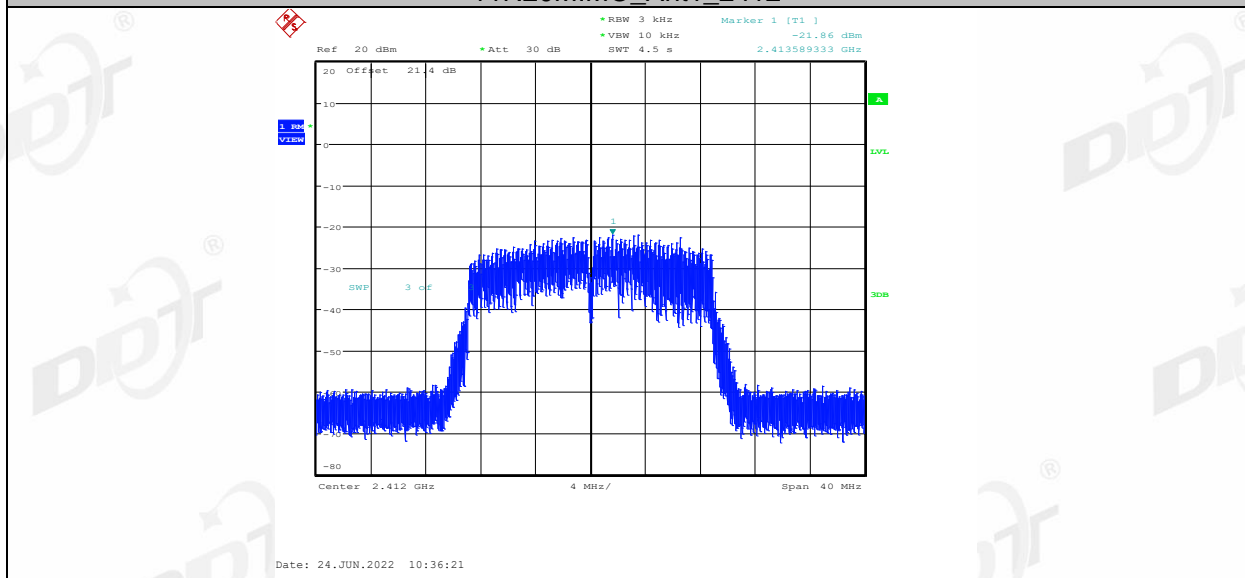


11G\_Ant2\_2462

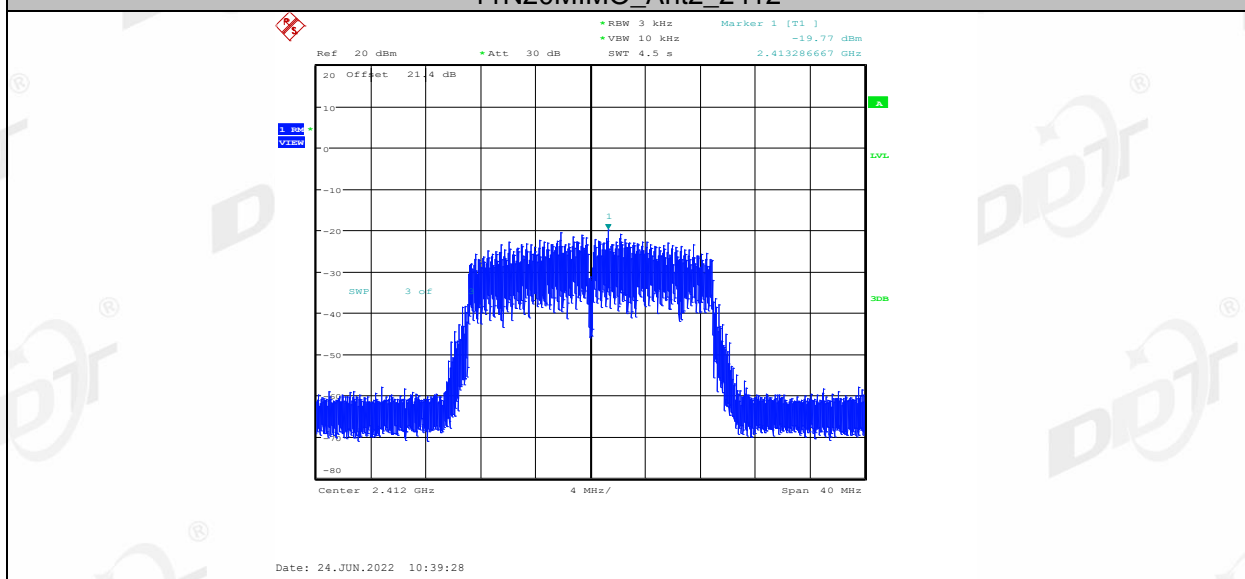




11N20MIMO\_Ant1\_2412

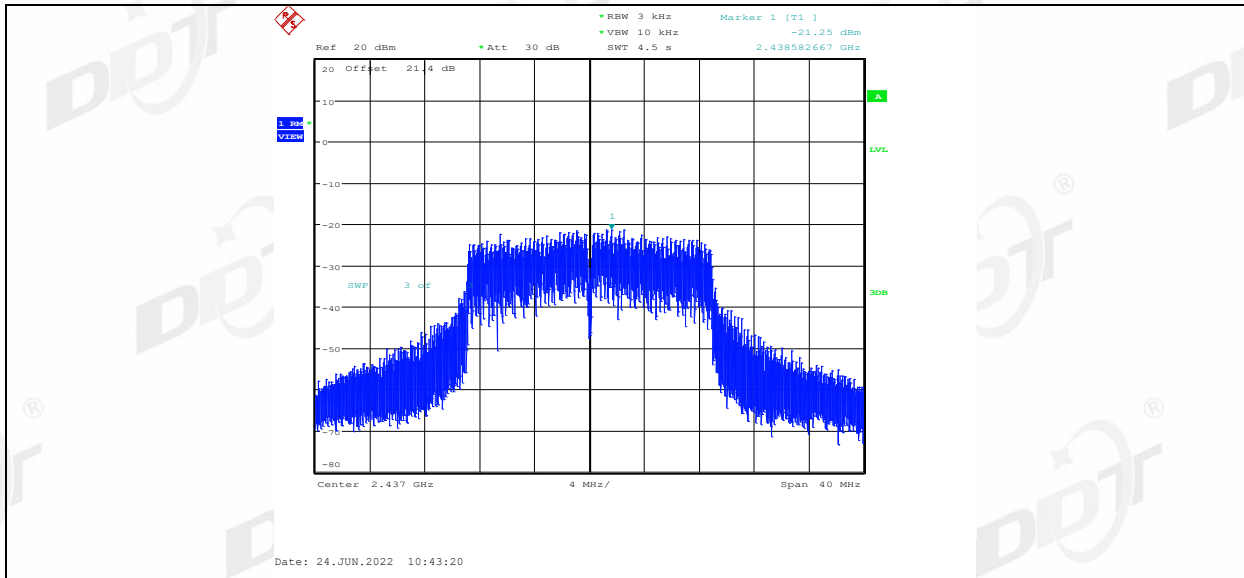


11N20MIMO\_Ant2\_2412

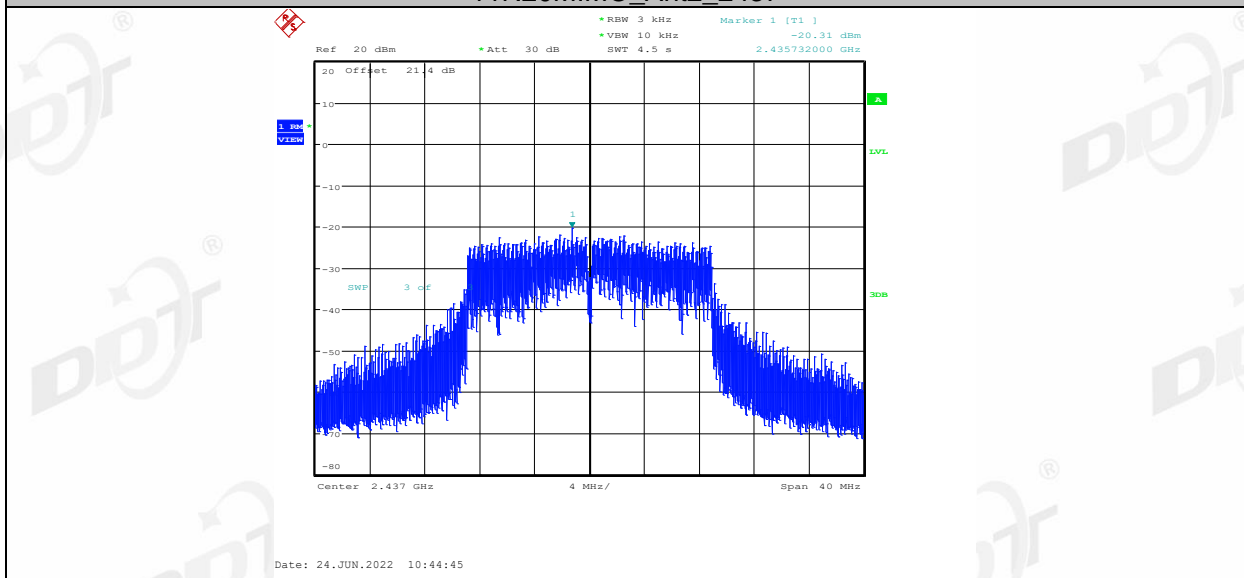


11N20MIMO\_Ant1\_2437

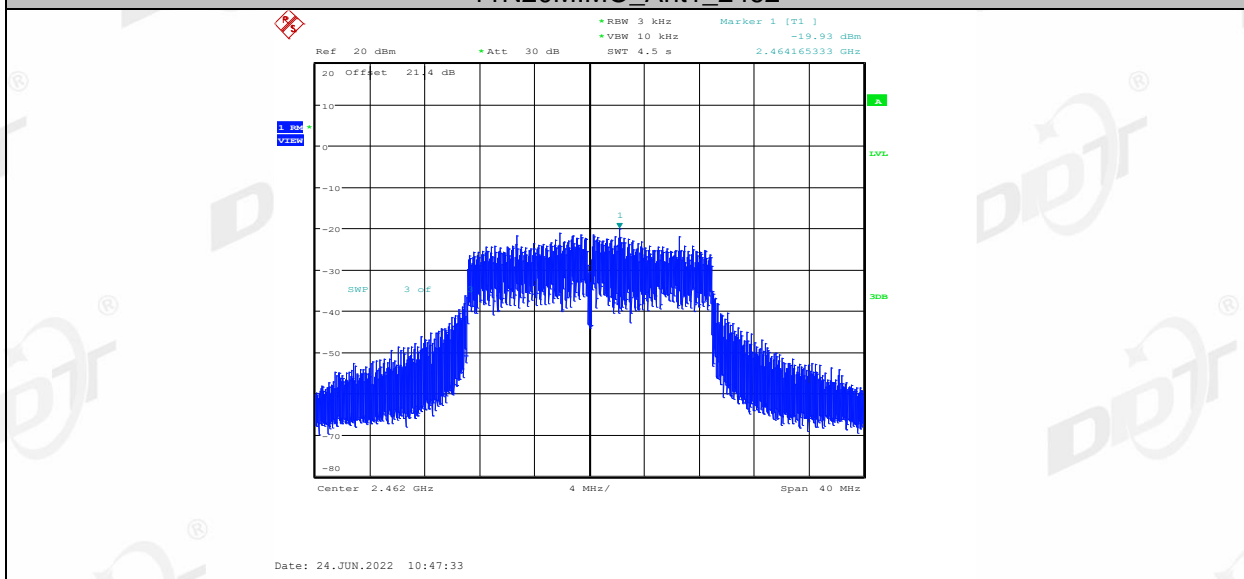




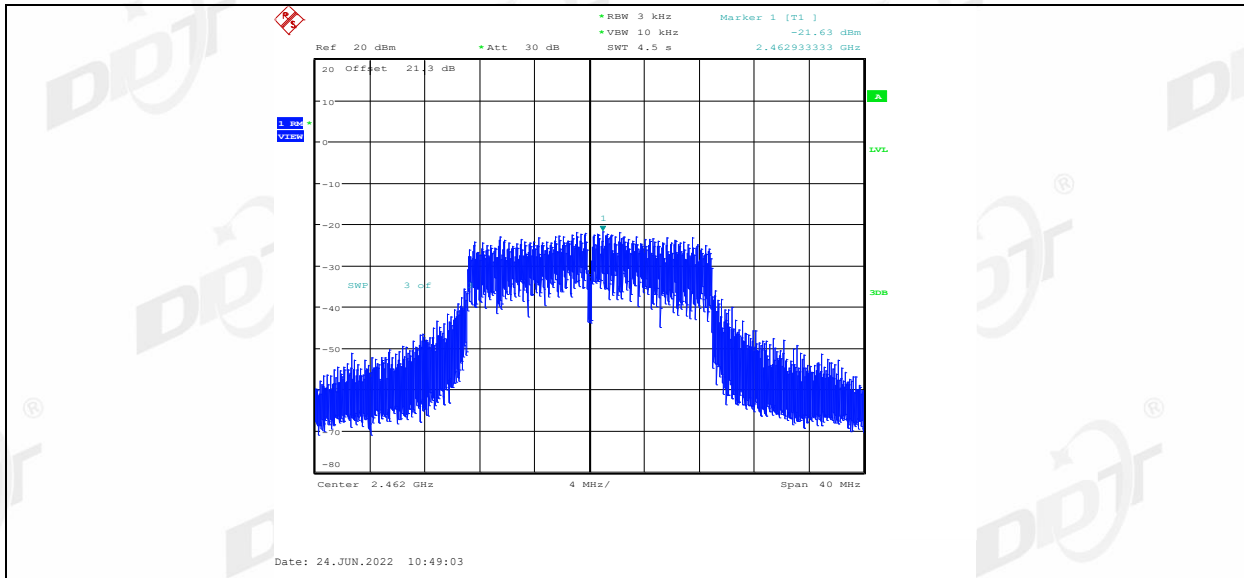
11N20MIMO\_Ant2\_2437



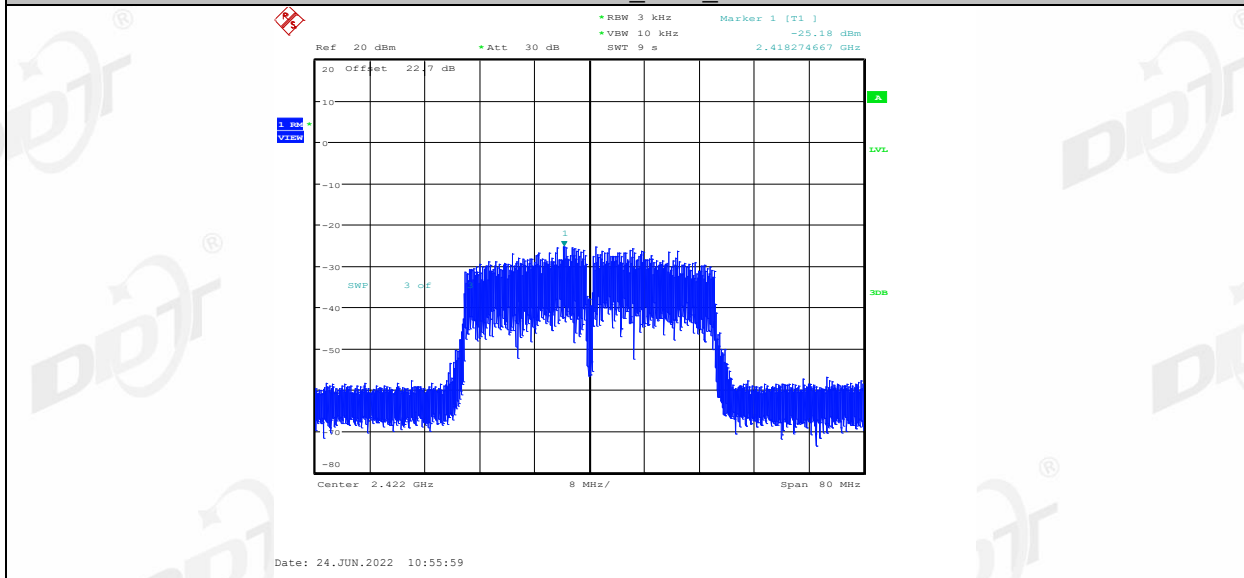
11N20MIMO\_Ant1\_2462



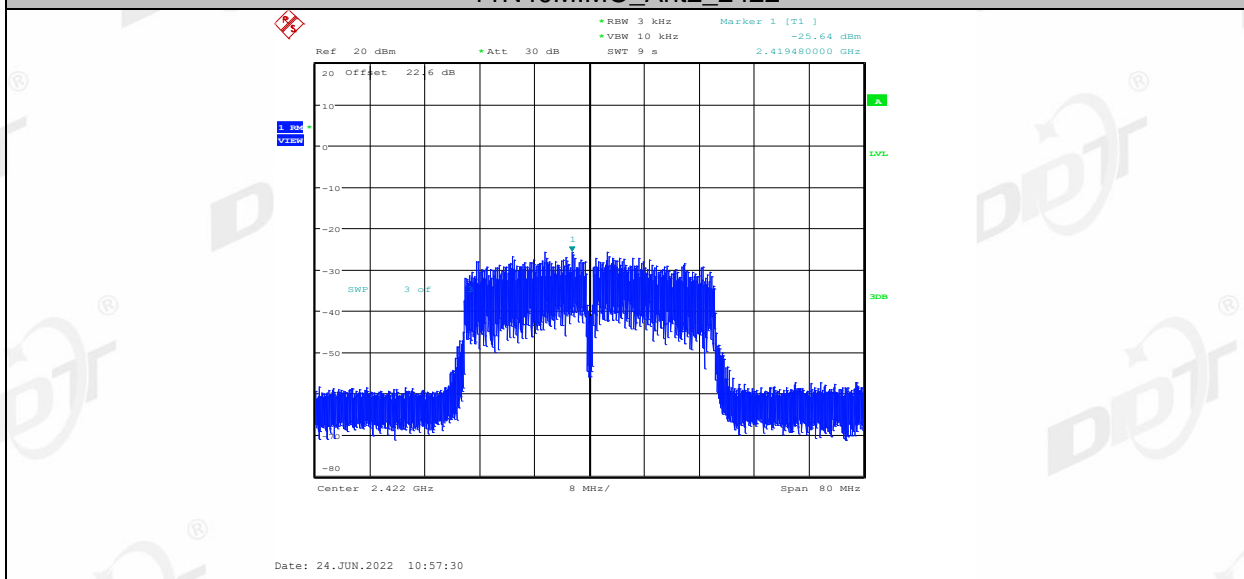
11N20MIMO\_Ant2\_2462



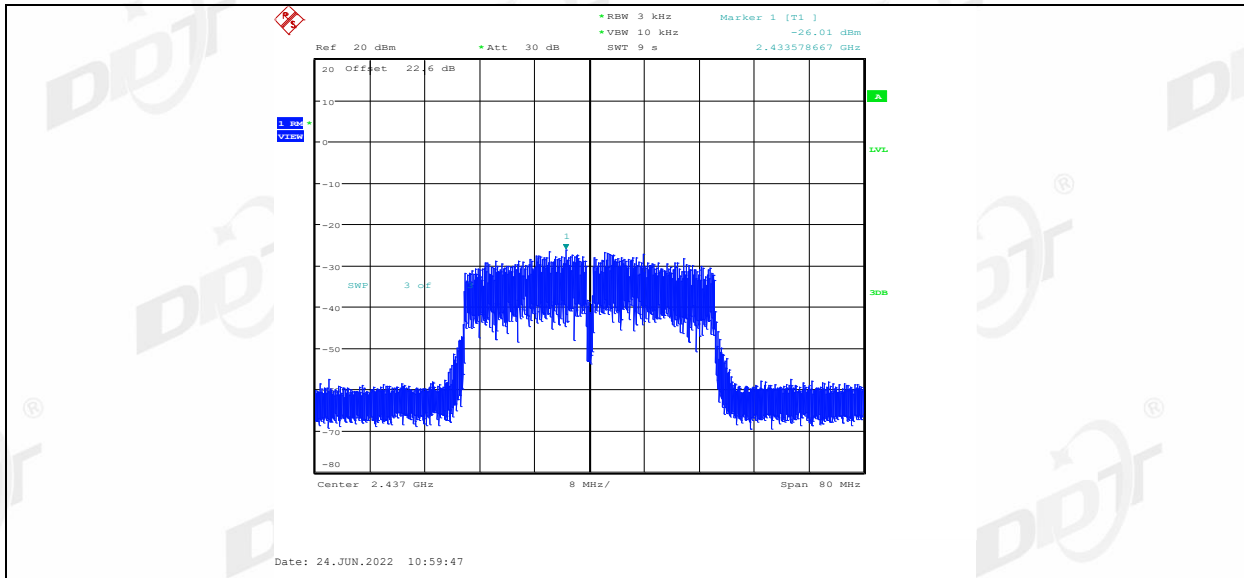
11N40MIMO\_Ant1\_2422



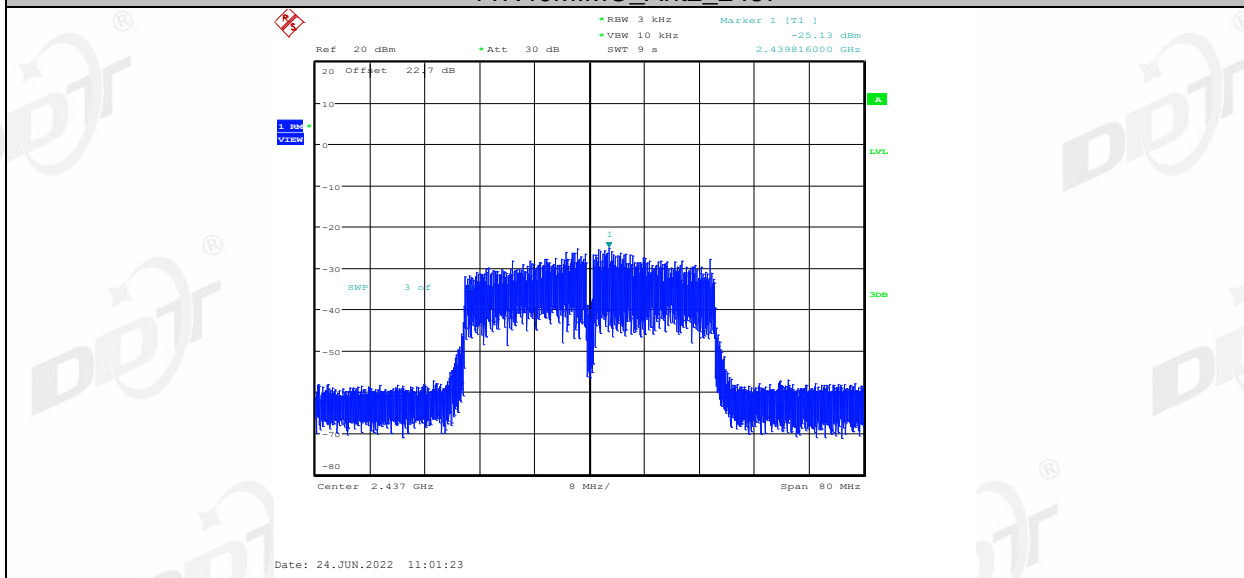
11N40MIMO\_Ant2\_2422



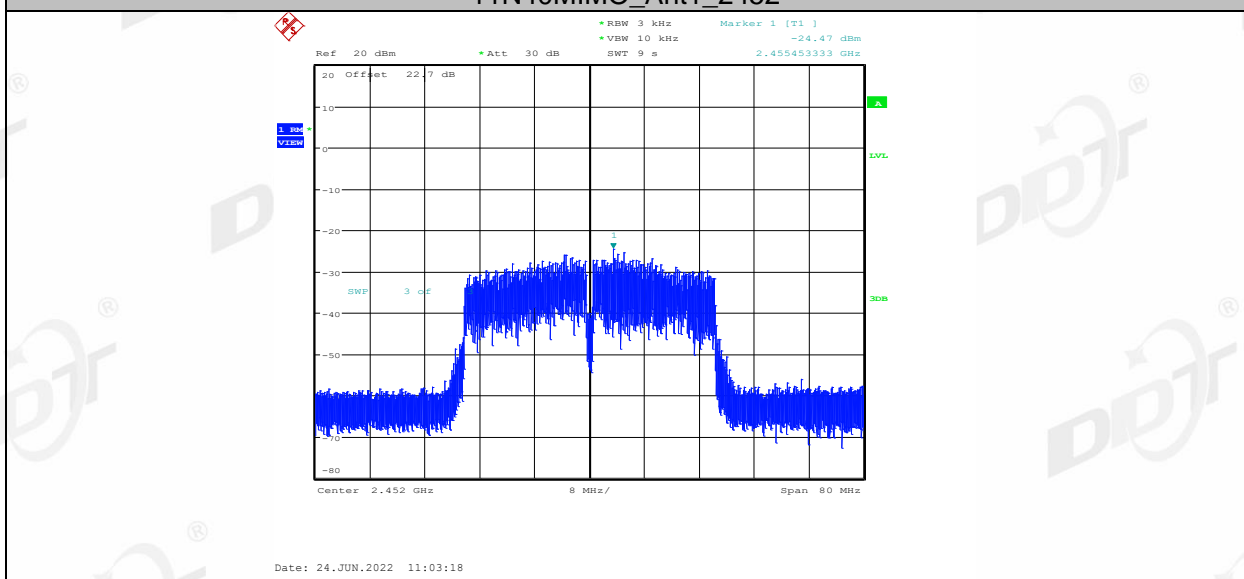
11N40MIMO\_Ant1\_2437



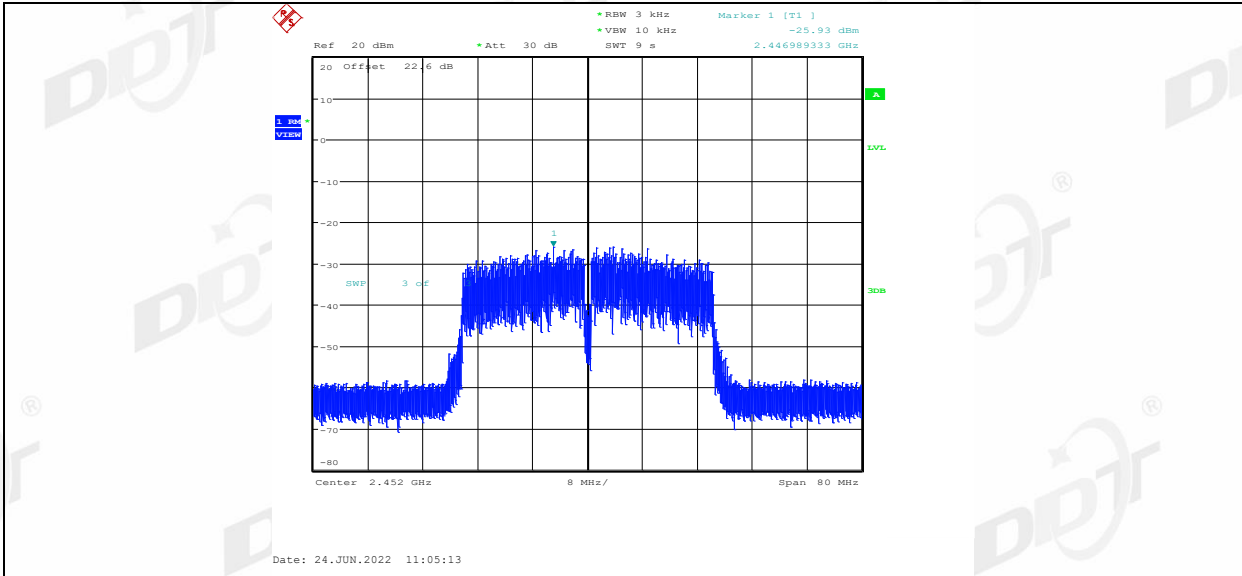
11N40MIMO\_Ant2\_2437



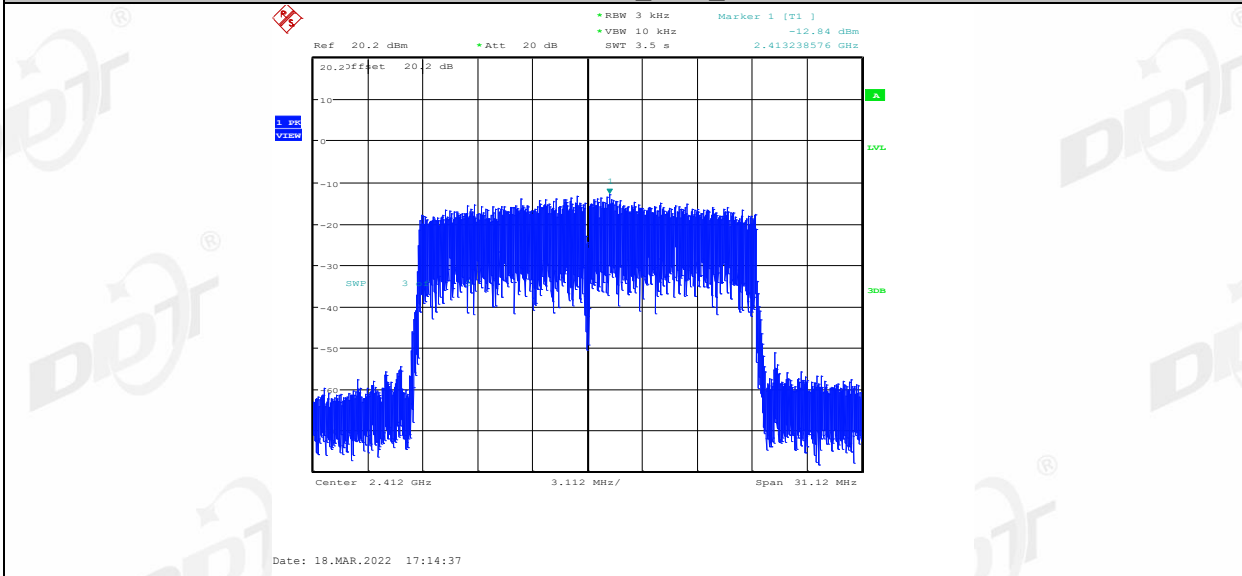
11N40MIMO\_Ant1\_2452



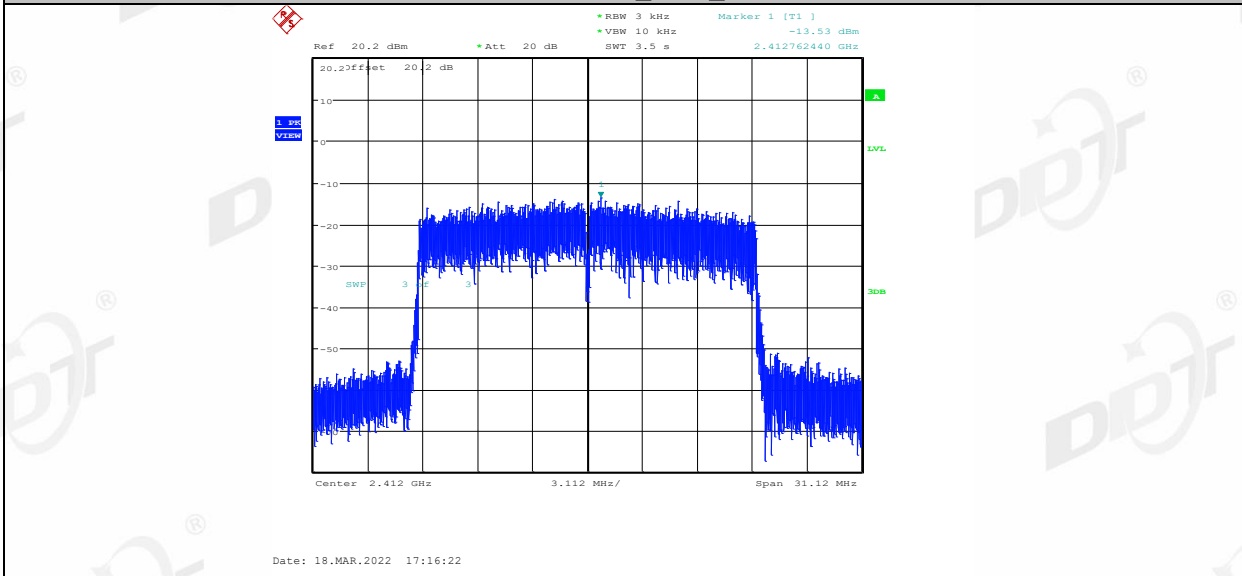
11N40MIMO\_Ant2\_2452



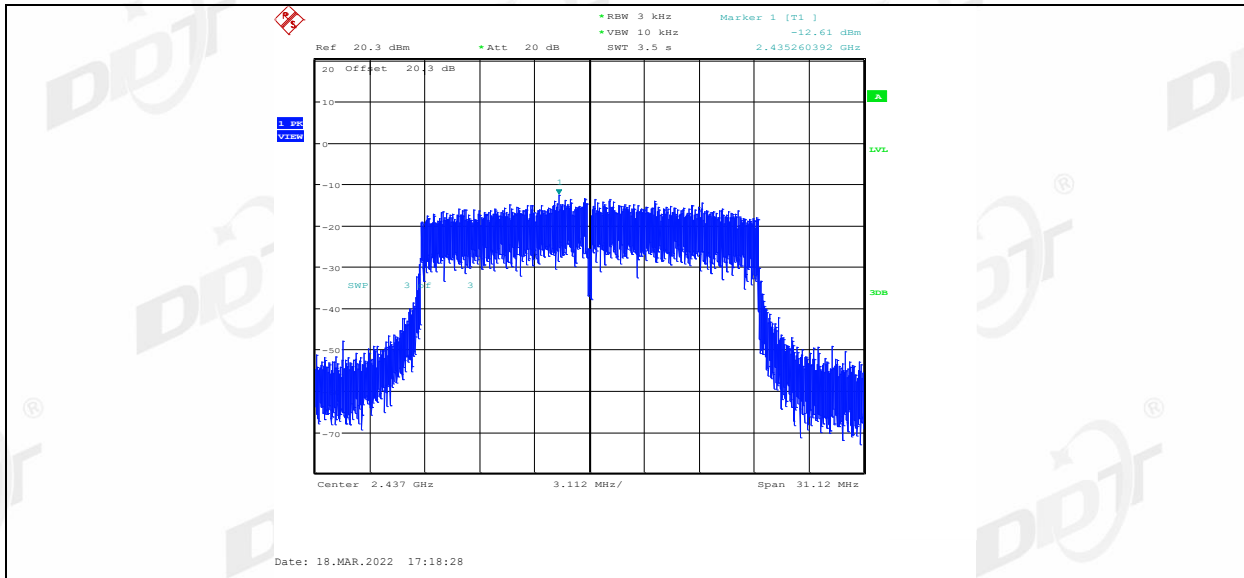
11AX20MIMO\_Ant1\_2412



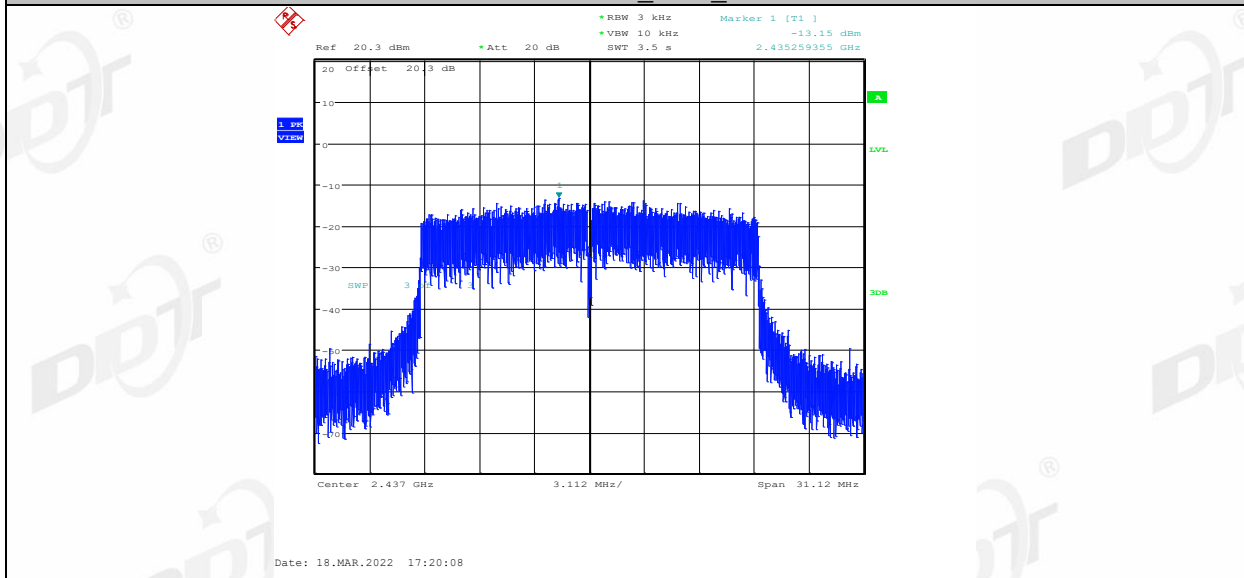
11AX20MIMO\_Ant2\_2412



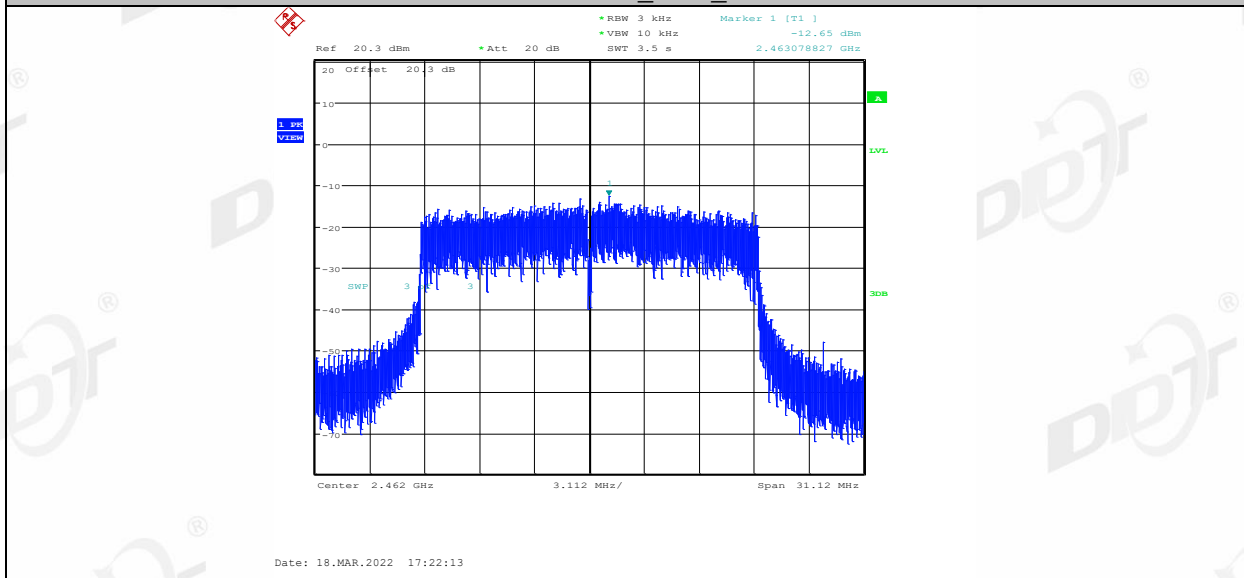
11AX20MIMO\_Ant1\_2437



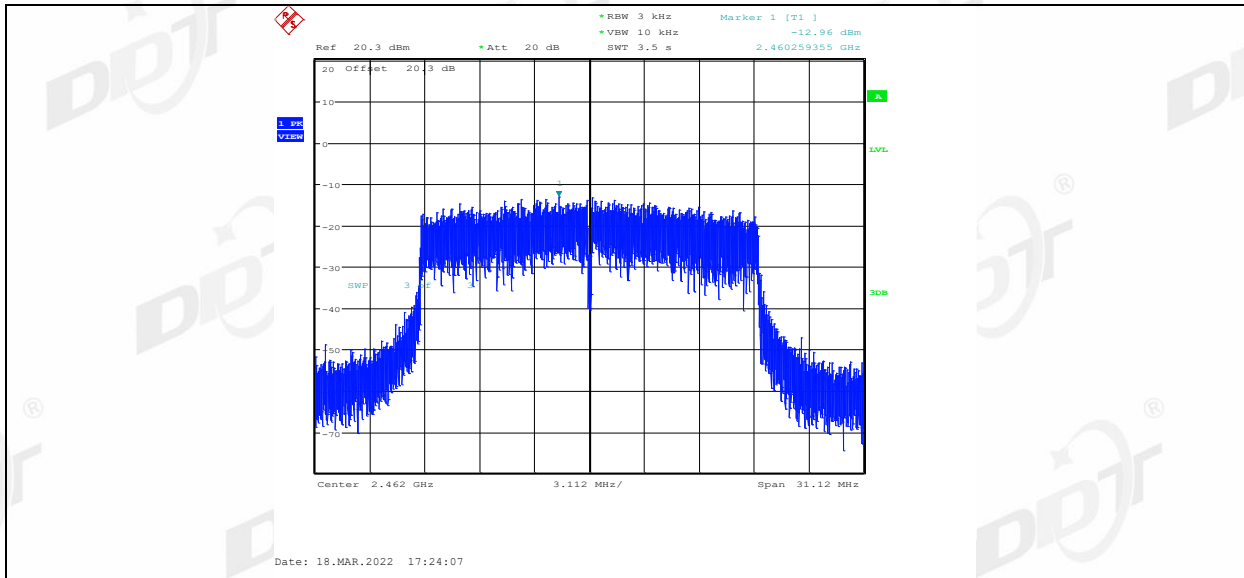
11AX20MIMO\_Ant2\_2437



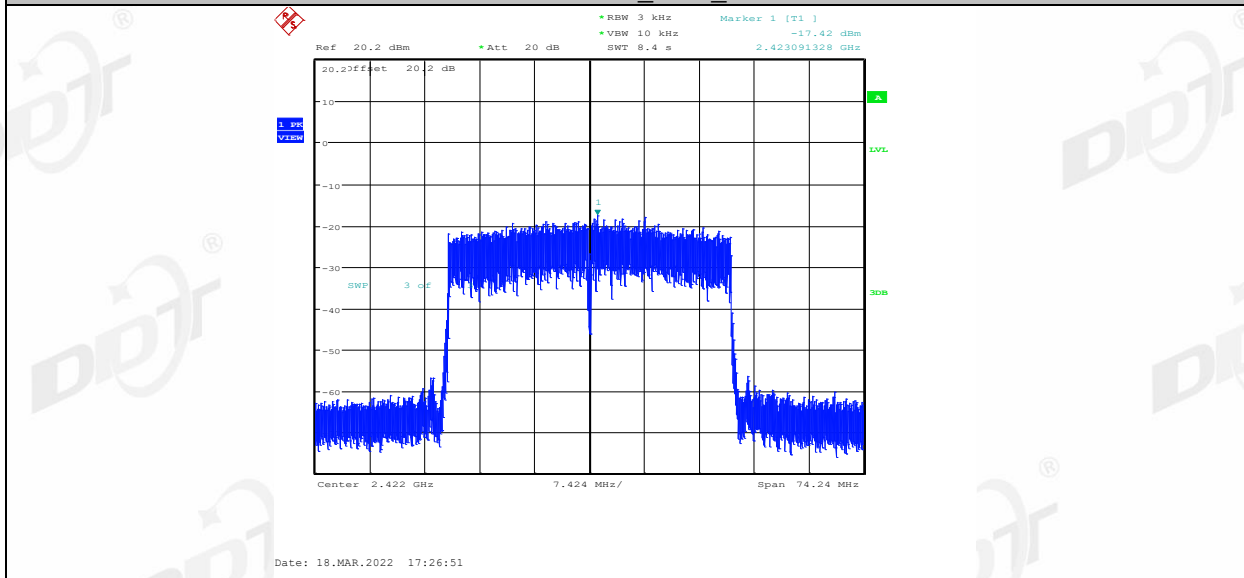
11AX20MIMO\_Ant1\_2462



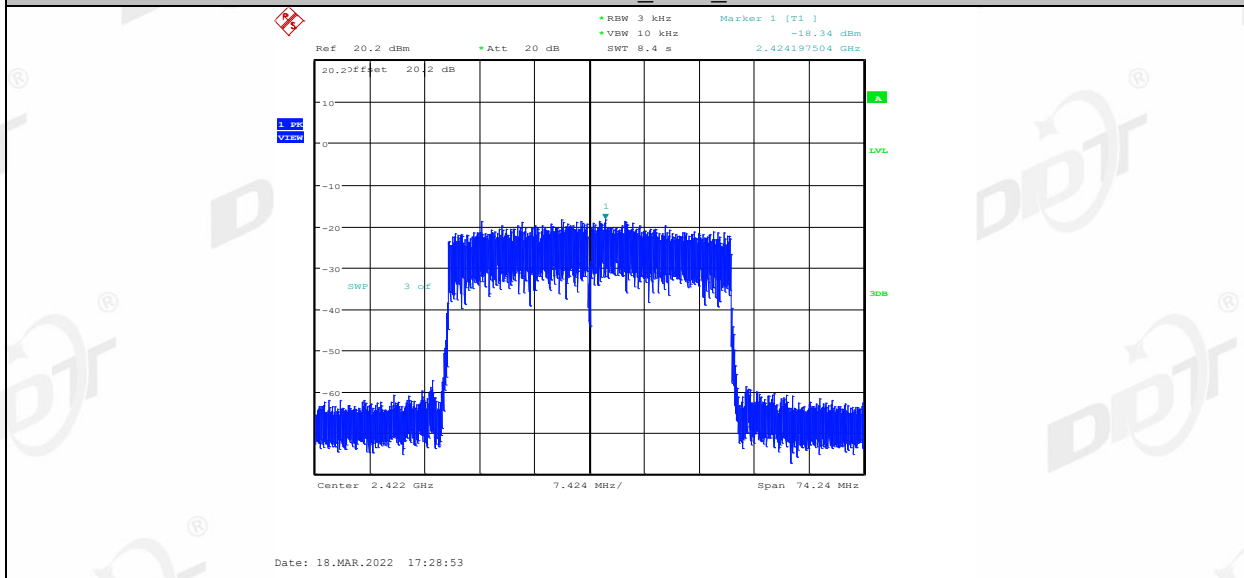
11AX20MIMO\_Ant2\_2462



11AX40MIMO\_Ant1\_2422



11AX40MIMO\_Ant2\_2422



11AX40MIMO\_Ant1\_2437