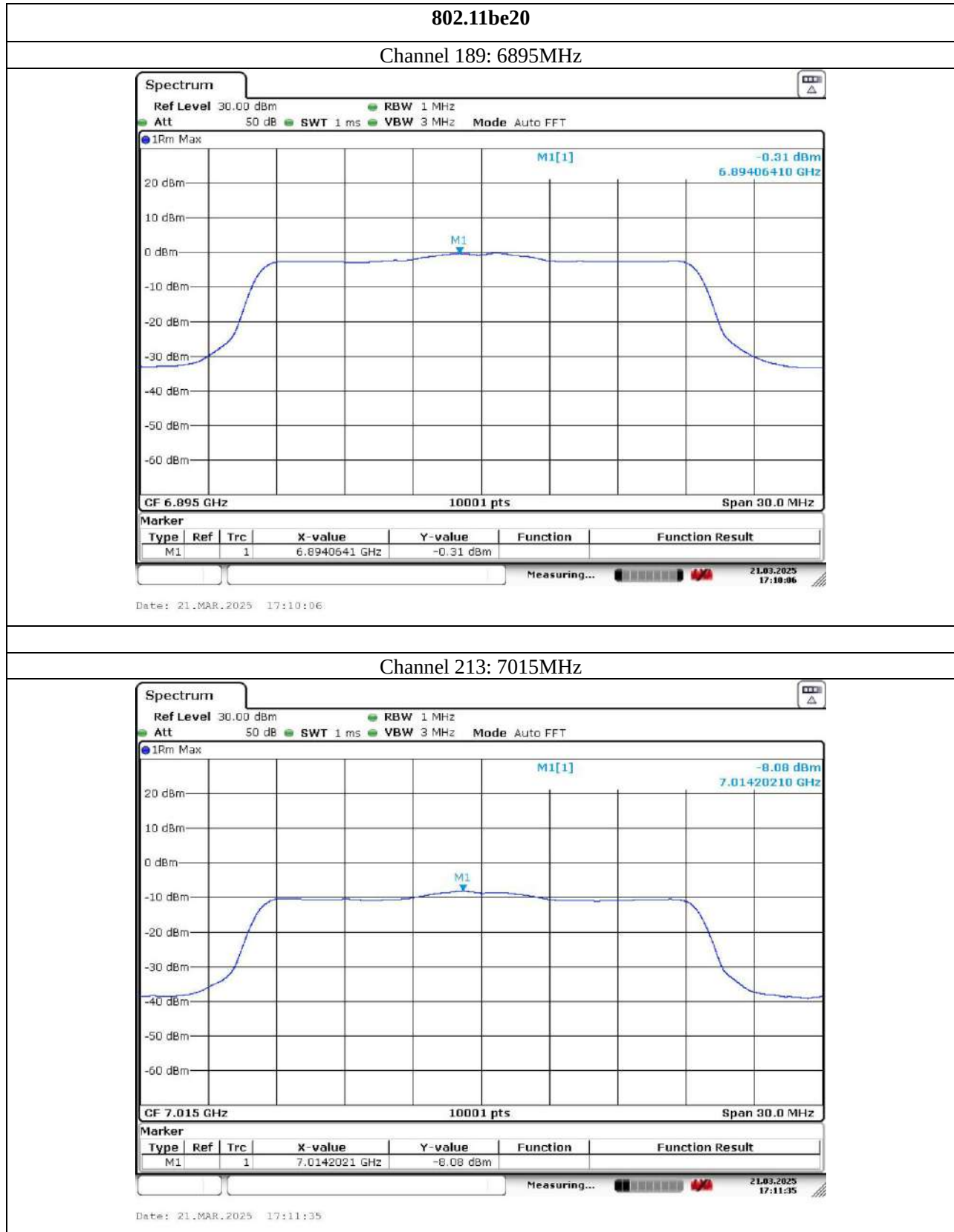
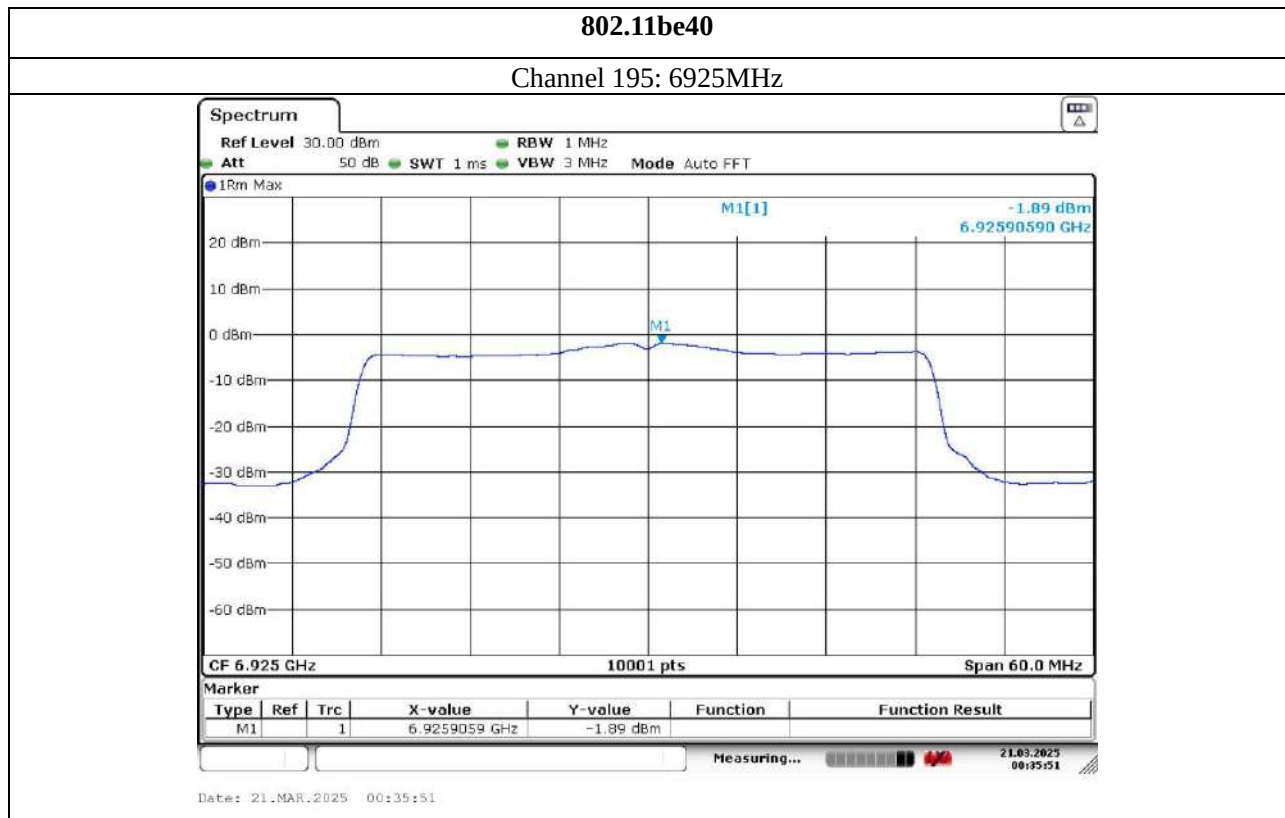
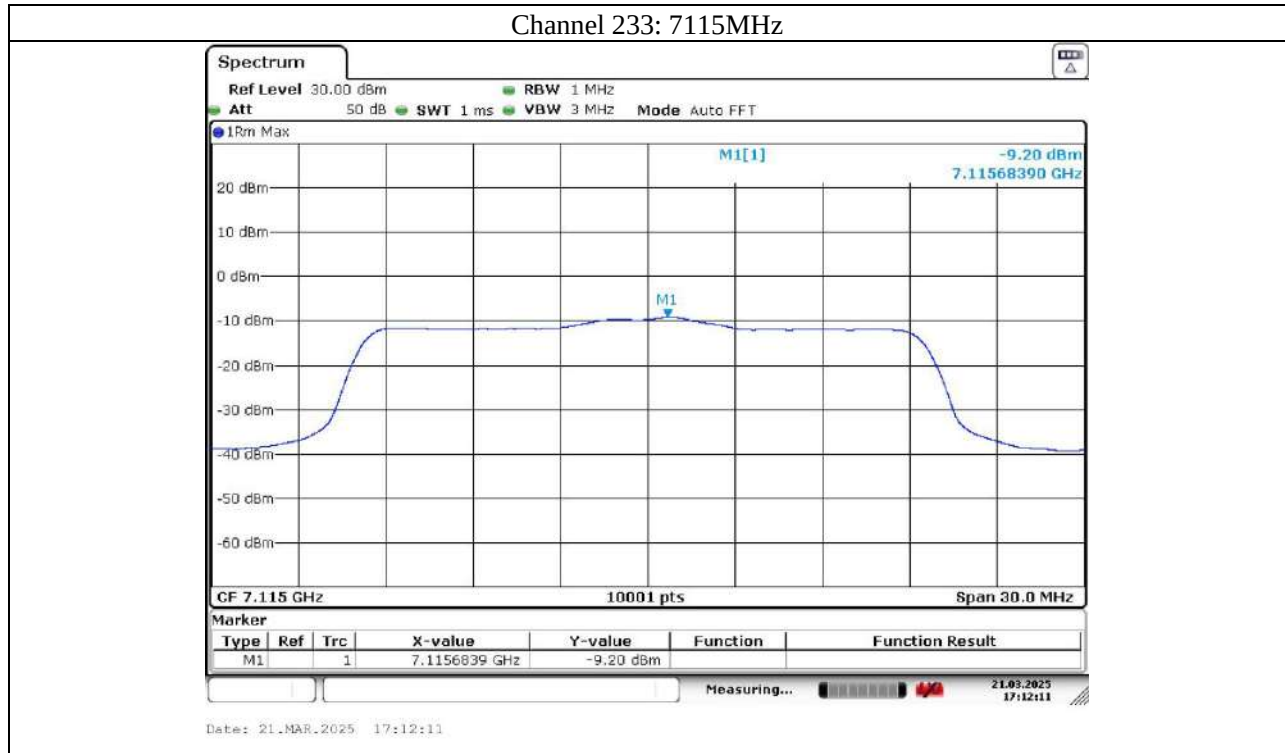
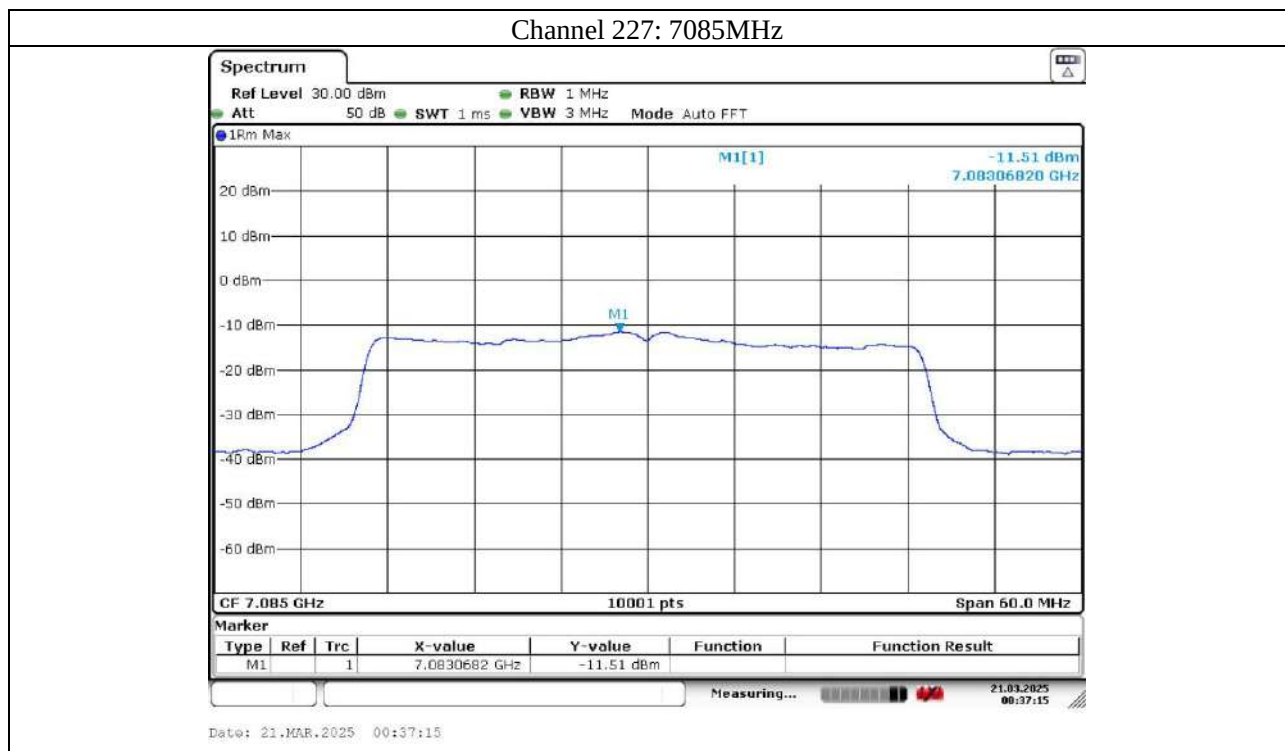
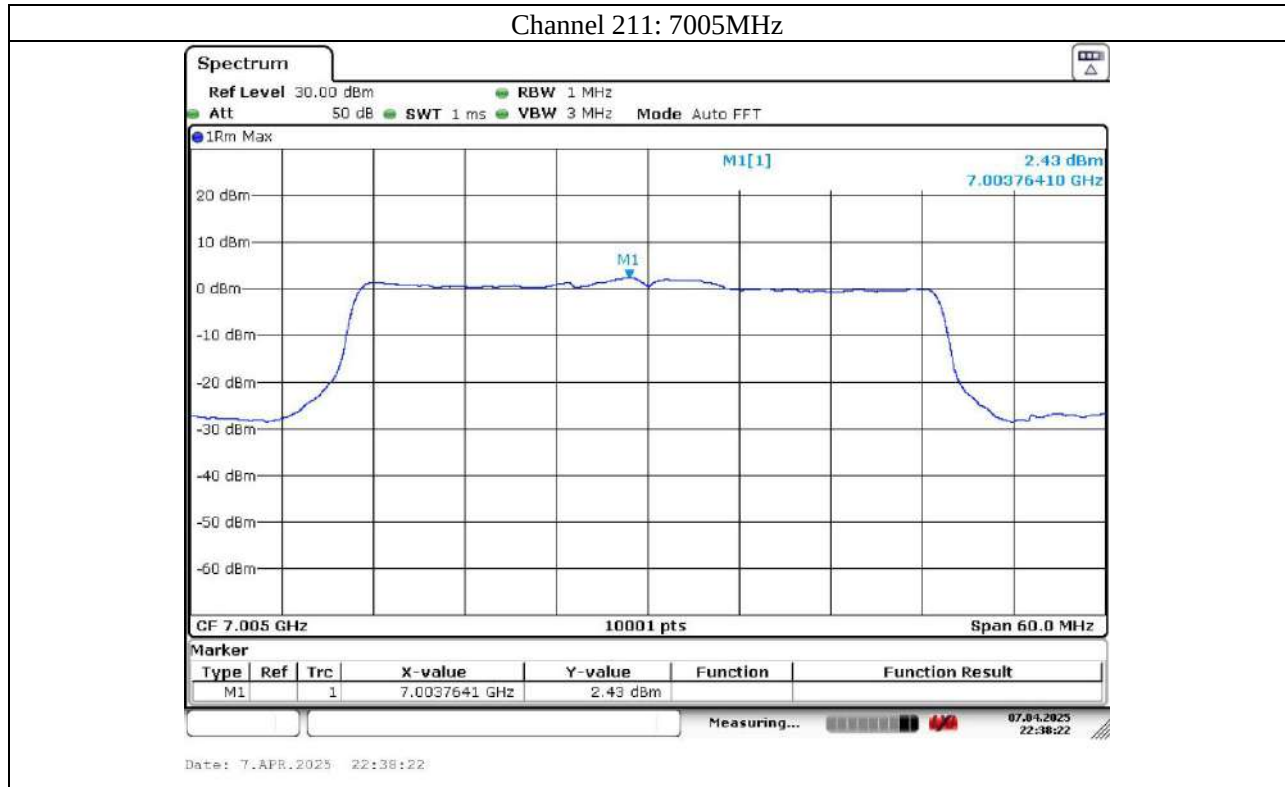
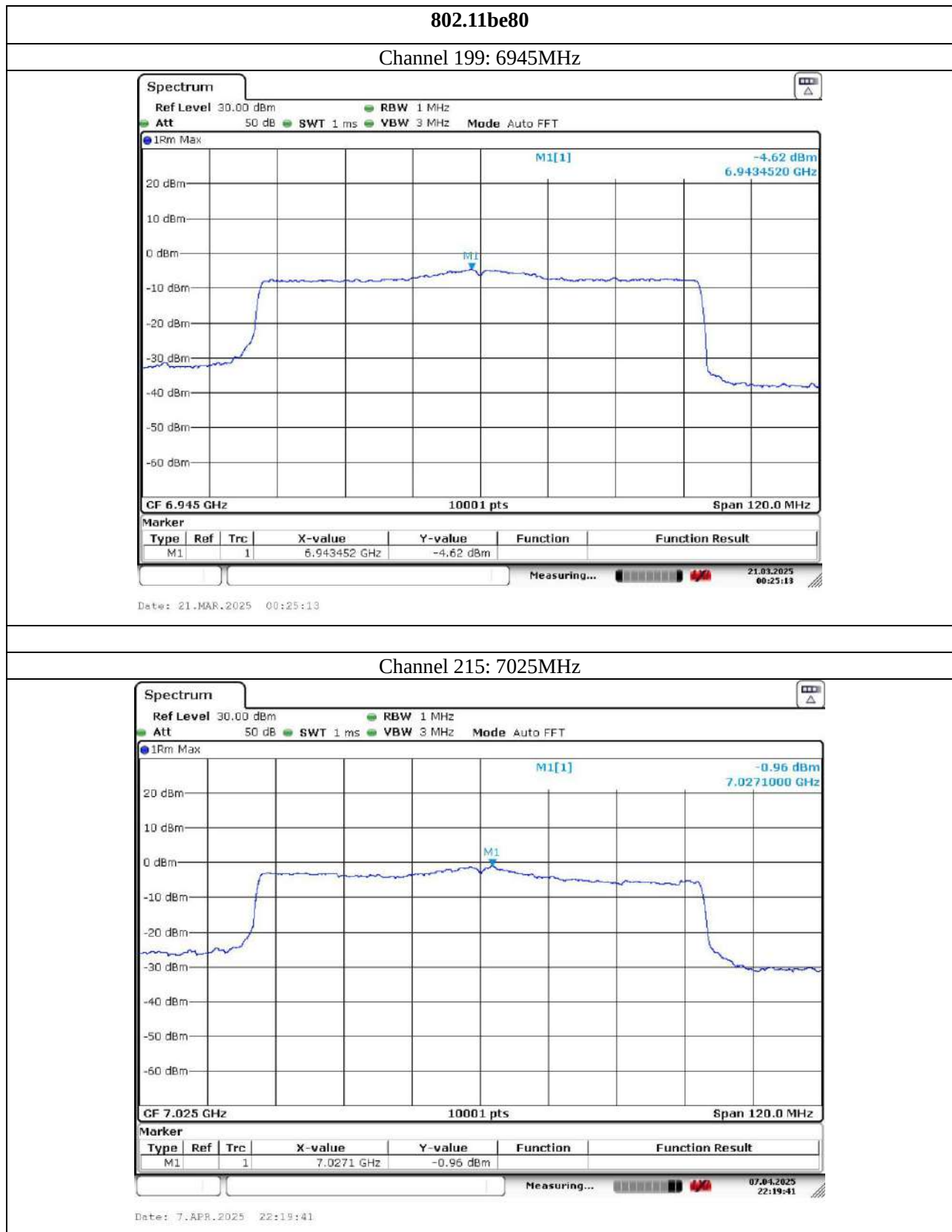
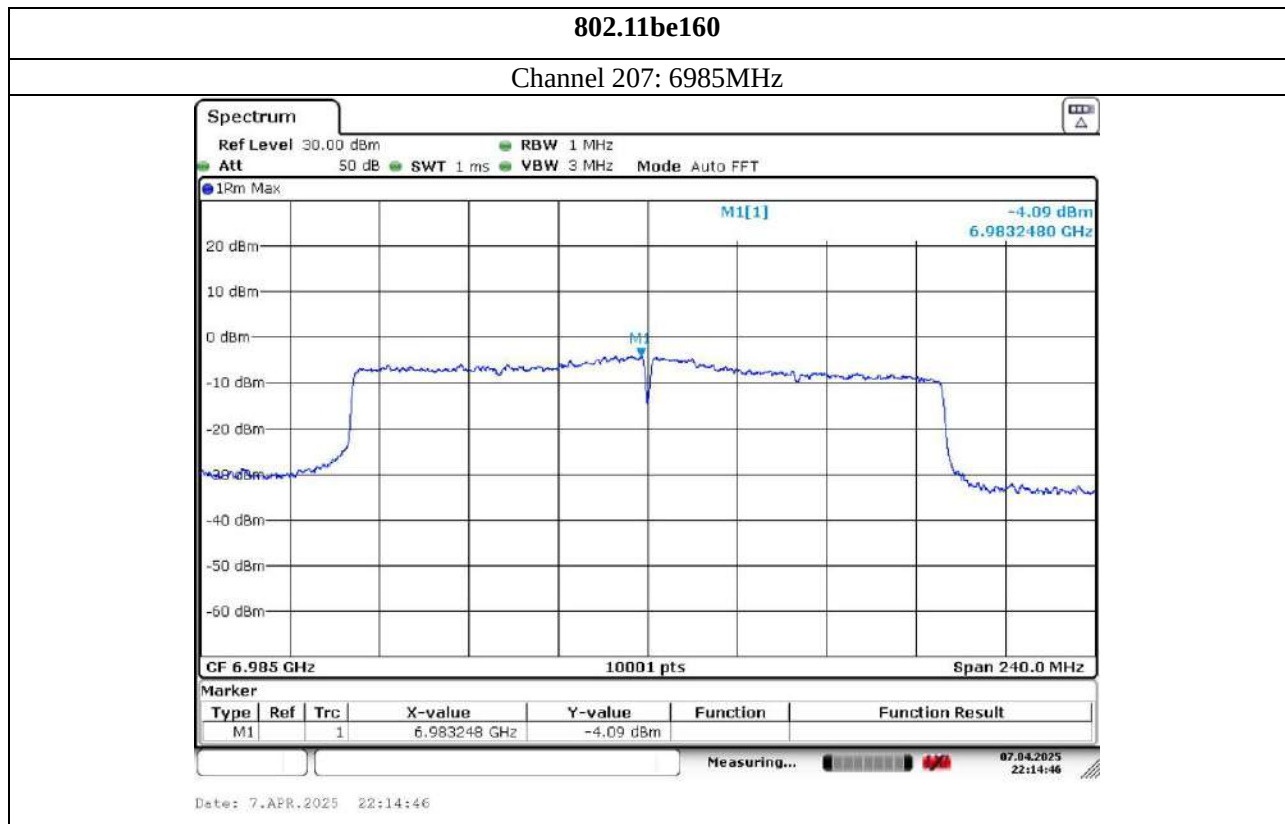






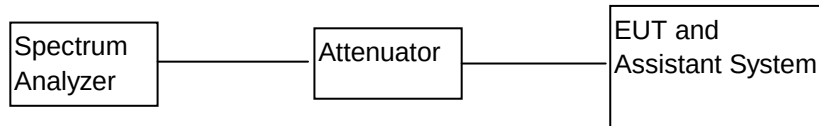






## 5. 26 dB & 99% Emission Bandwidth

### 5.1. BLOCK DIAGRAM OF TEST SETUP



### 5.2. APPLIED PROCEDURES / LIMIT

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320MHz.

### 5.3. TEST PROCEDURE

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set VBW  $\geq 3 \cdot$  RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



## 5.4. TEST RESULT

### Antenna 0:

| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|----------------|--------------------|-------------------------------|---------------------|------------------------------|---------------------|
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 2              | 5935.00            | 23.85                         | 23.76               | 19.086                       | 19.164              |
| 45             | 6175.00            | 23.82                         | 23.82               | 19.140                       | 19.158              |
| 93             | 6415.00            | 23.55                         | 24.03               | 19.179                       | 19.137              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 97             | 6435               | 23.58                         | 23.67               | 19.158                       | 19.164              |
| 105            | 6475               | 23.97                         | 23.85               | 19.188                       | 19.206              |
| 113            | 6515               | 24.06                         | 23.79               | 19.179                       | 19.155              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 117            | 6535               | 23.91                         | 23.61               | 19.140                       | 19.170              |
| 153            | 6715               | 23.37                         | 23.91               | 19.197                       | 19.186              |
| 181            | 6855               | 24.03                         | 23.88               | 19.179                       | 19.161              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 189            | 6895               | 23.61                         | 23.70               | 19.167                       | 19.984              |
| 213            | 7015               | 23.16                         | 22.95               | 19.089                       | 19.080              |
| 233            | 7115               | 23.22                         | 23.19               | 19.173                       | 19.119              |

| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|------------|--------------------|-------------------------------|---------------------|------------------------------|---------------------|
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 3          | 5965               | 44.22                         | 44.34               | 38.346                       | 38.616              |
| 43         | 6165               | 43.50                         | 43.68               | 38.472                       | 38.688              |
| 91         | 6405               | 44.16                         | 44.34               | 38.412                       | 38.622              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 99         | 6445               | 45.06                         | 44.40               | 38.706                       | 38.472              |
| 107        | 6485               | 45.12                         | 44.46               | 38.442                       | 38.526              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 123        | 6565               | 44.34                         | 44.40               | 38.292                       | 38.544              |
| 155        | 6725               | 45.06                         | 44.10               | 38.718                       | 38.556              |
| 179        | 6845               | 44.82                         | 44.58               | 38.514                       | 38.286              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 195        | 6925               | 44.34                         | 44.34               | 38.676                       | 38.682              |
| 211        | 7005               | 44.29                         | 42.13               | 38.406                       | 38.676              |
| 227        | 7085               | 44.94                         | 43.92               | 38.712                       | 38.538              |



| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|---------|-----------------|-------------------------------|------------------|------------------------------|------------------|
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 7       | 5985            | 88.80                         | 87.48            | 77.724                       | 77.784           |
| 39      | 6145            | 89.04                         | 88.32            | 77.772                       | 77.700           |
| 87      | 6385            | 91.20                         | 90.24            | 77.880                       | 77.784           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 103     | 6465            | 88.08                         | 87.72            | 77.856                       | 77.676           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 135     | 6625            | 88.92                         | 89.64            | 77.868                       | 78.024           |
| 151     | 6705            | 88.08                         | 87.84            | 77.592                       | 77.736           |
| 167     | 6785            | 87.12                         | 89.16            | 77.532                       | 77.748           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 199     | 6945            | 84.72                         | 84.84            | 77.688                       | 77.472           |
| 215     | 7025            | 88.59                         | 86.19            | 77.844                       | 77.904           |

| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|---------|-----------------|-------------------------------|-------------------|------------------------------|-------------------|
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH15    | 6025            | 176.88                        | 181.44            | 156.336                      | 156.240           |
| CH47    | 6185            | 174.24                        | 177.12            | 156.840                      | 157.416           |
| CH79    | 6345            | 178.56                        | 175.68            | 157.224                      | 157.944           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH143   | 6665            | 171.36                        | 172.80            | 156.576                      | 156.264           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH207   | 6985            | 183.90                        | 177.42            | 156.360                      | 156.168           |

| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |  | 99% Occupied Bandwidth (MHz) |  |
|---------|-----------------|-------------------------------|--|------------------------------|--|
|         |                 | 802.11be (EHT320)             |  | 802.11be (EHT320)            |  |
| CH63    | 6265            | 350.70                        |  | 318.400                      |  |

### Antenna 1:

| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|----------------|--------------------|-------------------------------|---------------------|------------------------------|---------------------|
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 2              | 5935.00            | 24.24                         | 23.85               | 19.161                       | 19.185              |
| 45             | 6175.00            | 23.16                         | 25.62               | 19.113                       | 19.191              |
| 93             | 6415.00            | 23.70                         | 24.30               | 19.158                       | 19.146              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 97             | 6435               | 23.34                         | 24.12               | 19.161                       | 19.167              |
| 105            | 6475               | 23.76                         | 23.88               | 19.134                       | 19.236              |
| 113            | 6515               | 23.70                         | 24.24               | 19.164                       | 19.149              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 117            | 6535               | 23.82                         | 24.03               | 19.185                       | 19.146              |
| 153            | 6715               | 24.78                         | 23.58               | 19.185                       | 19.164              |
| 181            | 6855               | 24.03                         | 24.06               | 19.194                       | 19.233              |
| CH<br>·<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|                |                    | 802.11ax<br>(HE20)            | 802.11be<br>(EHT20) | 802.11ax<br>(HE20)           | 802.11be<br>(EHT20) |
| 189            | 6895               | 23.94                         | 23.88               | 19.068                       | 19.182              |
| 213            | 7015               | 24.51                         | 23.31               | 19.188                       | 19.059              |
| 233            | 7115               | 23.25                         | 23.88               | 19.065                       | 19.010              |

| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|------------|--------------------|-------------------------------|---------------------|------------------------------|---------------------|
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 3          | 5965               | 43.98                         | 45.18               | 38.262                       | 38.550              |
| 43         | 6165               | 43.98                         | 44.46               | 38.898                       | 38.166              |
| 91         | 6405               | 44.28                         | 44.52               | 38.100                       | 38.334              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 99         | 6445               | 43.98                         | 44.88               | 38.436                       | 38.670              |
| 107        | 6485               | 44.88                         | 44.76               | 38.472                       | 38.418              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 123        | 6565               | 44.58                         | 46.98               | 38.256                       | 38.238              |
| 155        | 6725               | 44.22                         | 43.80               | 38.244                       | 38.250              |
| 179        | 6845               | 44.52                         | 45.00               | 38.700                       | 38.178              |
| CH.<br>No. | Frequency<br>(MHz) | 26dB Occupied Bandwidth (MHz) |                     | 99% Occupied Bandwidth (MHz) |                     |
|            |                    | 802.11ax<br>(HE40)            | 802.11be<br>(EHT40) | 802.11ax<br>(HE40)           | 802.11be<br>(EHT40) |
| 195        | 6925               | 52.26                         | 44.46               | 38.406                       | 38.010              |
| 211        | 7005               | 44.33                         | 43.27               | 38.616                       | 38.520              |
| 227        | 7085               | 45.36                         | 46.08               | 38.322                       | 38.448              |

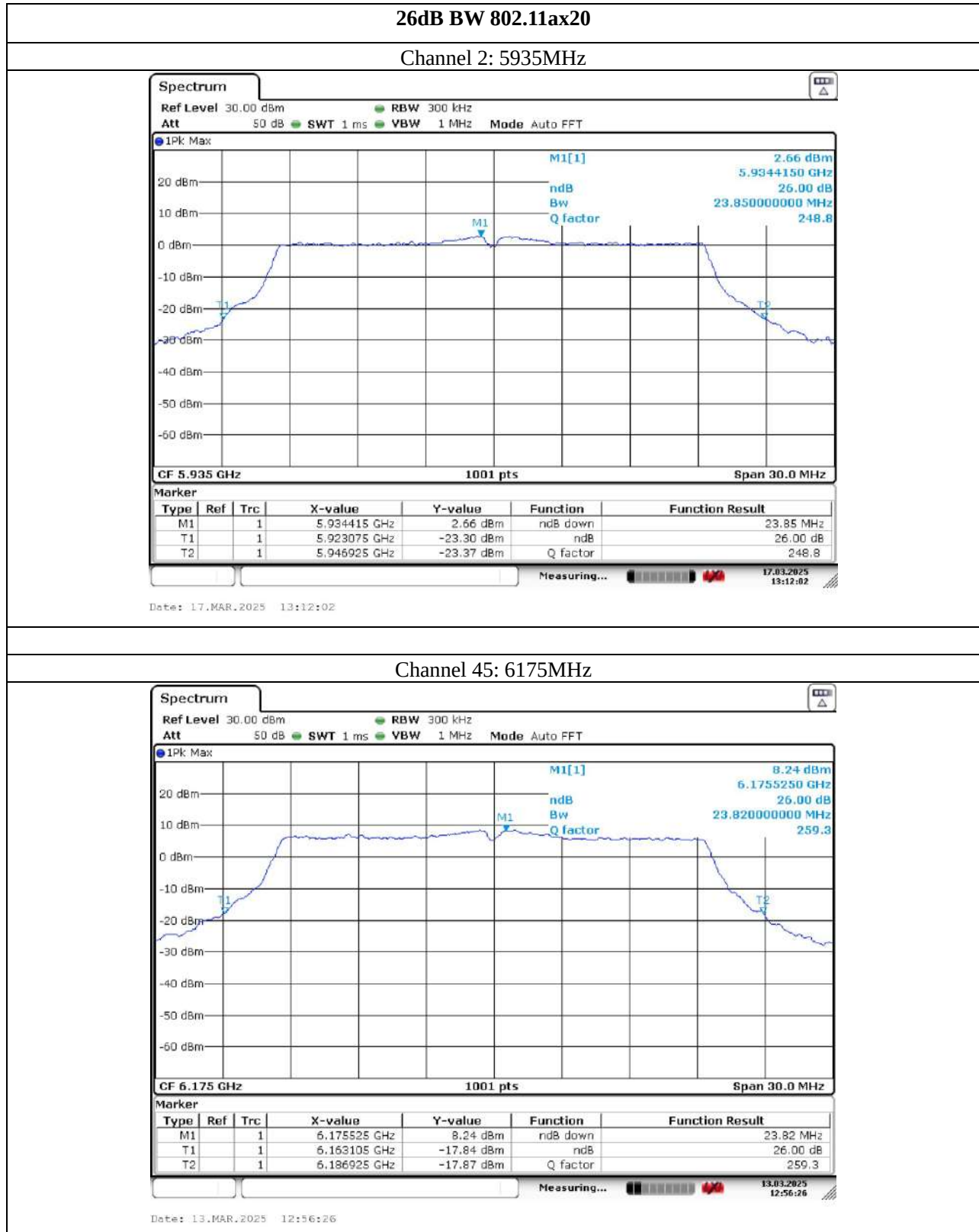
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|---------|-----------------|-------------------------------|------------------|------------------------------|------------------|
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 7       | 5985            | 87.36                         | 89.64            | 77.736                       | 77.316           |
| 39      | 6145            | 88.08                         | 88.68            | 77.628                       | 77.568           |
| 87      | 6385            | 88.92                         | 89.16            | 77.556                       | 77.772           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 103     | 6465            | 87.84                         | 89.28            | 77.712                       | 77.352           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 135     | 6625            | 90.36                         | 90.60            | 77.628                       | 77.628           |
| 151     | 6705            | 90.96                         | 88.56            | 77.508                       | 77.628           |
| 167     | 6785            | 88.44                         | 89.16            | 77.400                       | 77.532           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                  | 99% Occupied Bandwidth (MHz) |                  |
|         |                 | 802.11ax (HE80)               | 802.11be (EHT80) | 802.11ax (HE80)              | 802.11be (EHT80) |
| 199     | 6945            | 86.16                         | 86.76            | 77.688                       | 77.580           |
| 215     | 7025            | 93.72                         | 85.47            | 77.808                       | 77.760           |

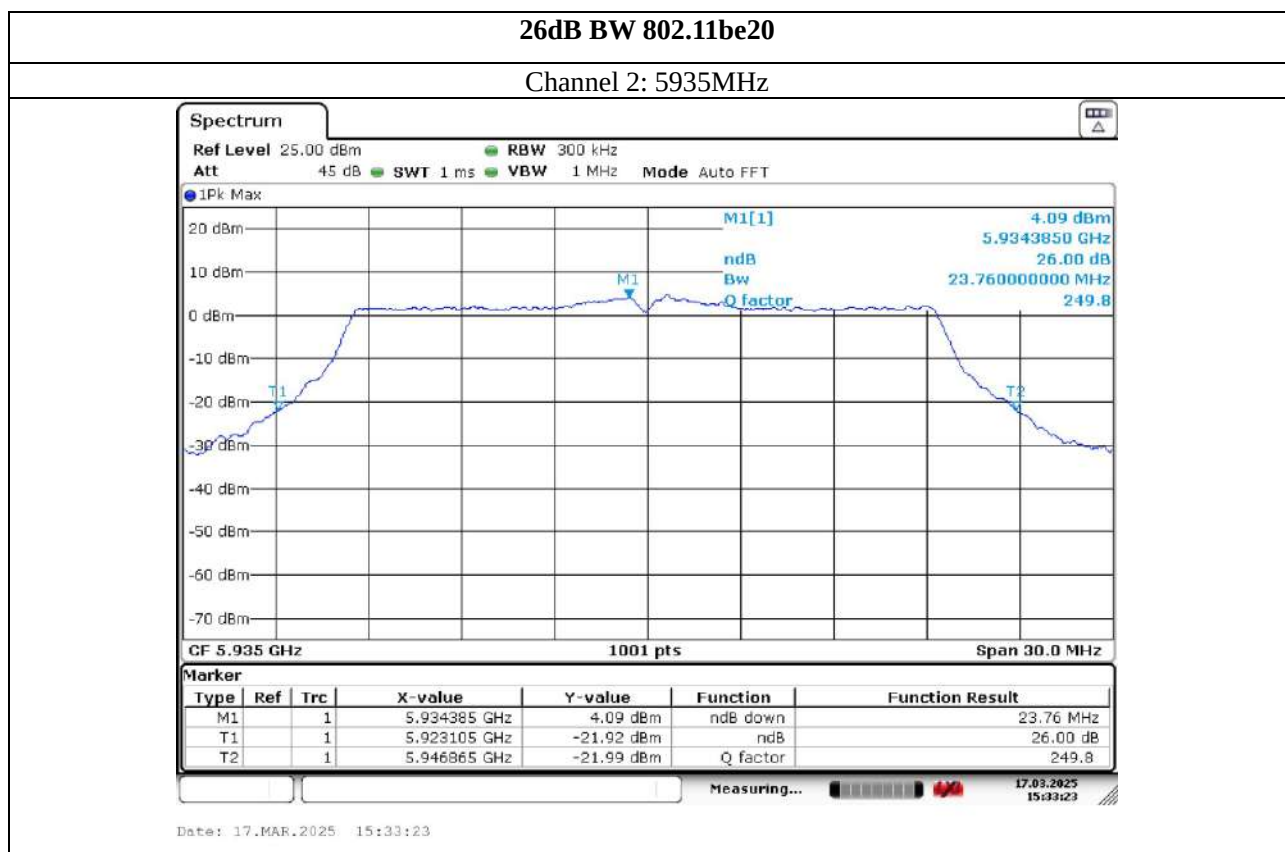
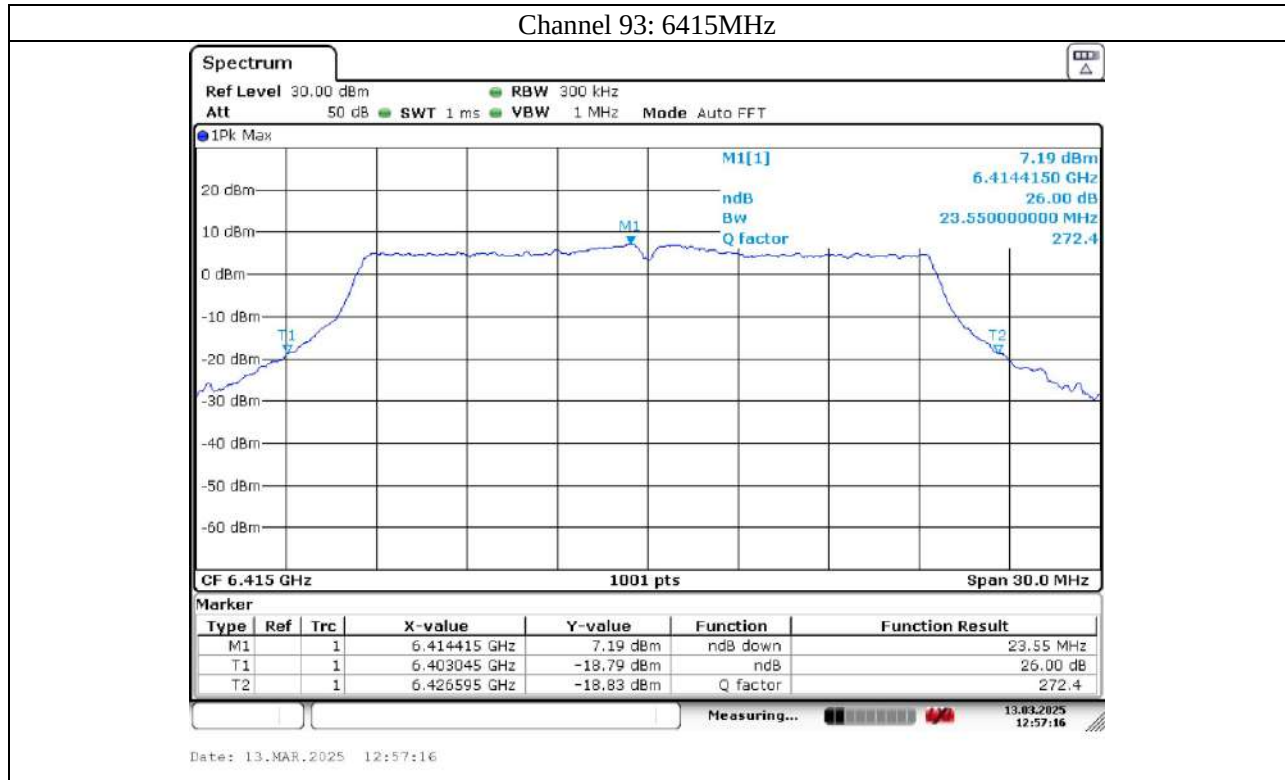
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|---------|-----------------|-------------------------------|-------------------|------------------------------|-------------------|
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH15    | 6025            | 174.96                        | 189.84            | 155.832                      | 156.480           |
| CH47    | 6185            | 184.80                        | 186.72            | 157.848                      | 157.464           |
| CH79    | 6345            | 179.04                        | 213.84            | 158.808                      | 157.440           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH143   | 6665            | 175.20                        | 177.84            | 156.552                      | 156.774           |
| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |                   | 99% Occupied Bandwidth (MHz) |                   |
|         |                 | 802.11ax (HE160)              | 802.11be (EHT160) | 802.11ax (HE160)             | 802.11be (EHT160) |
| CH207   | 6985            | 177.42                        | 177.42            | 156.408                      | 156.336           |

| CH. No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) |  | 99% Occupied Bandwidth (MHz) |  |
|---------|-----------------|-------------------------------|--|------------------------------|--|
|         |                 | 802.11be (EHT320)             |  | 802.11be (EHT320)            |  |
| CH63    | 6265            | 356.300                       |  | 318.720                      |  |

Test plots as followed:

**Antenna 0:**





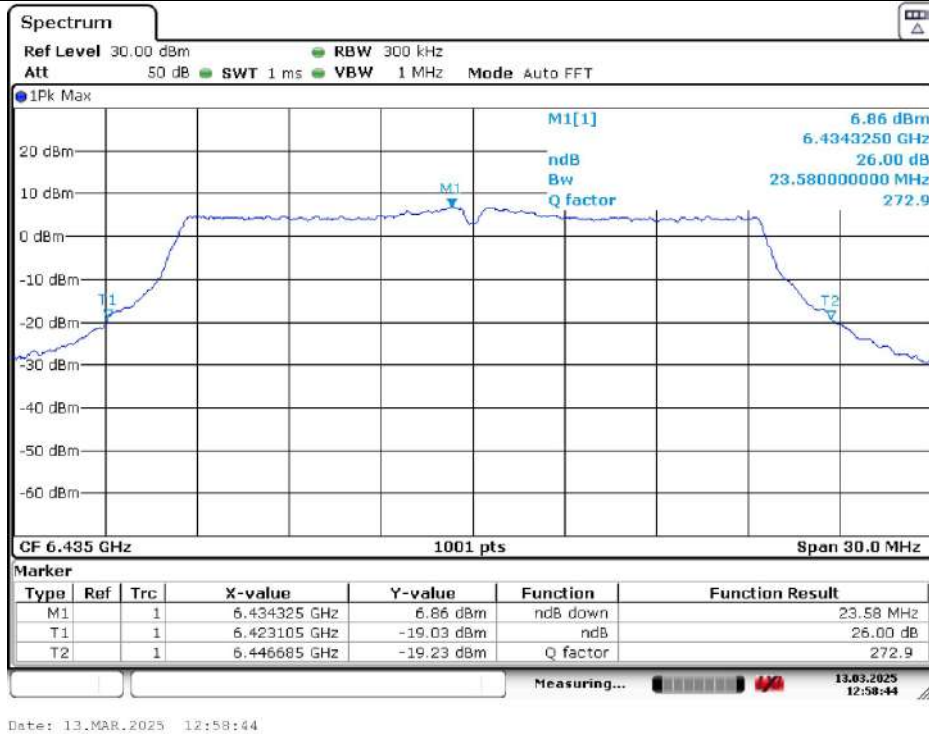




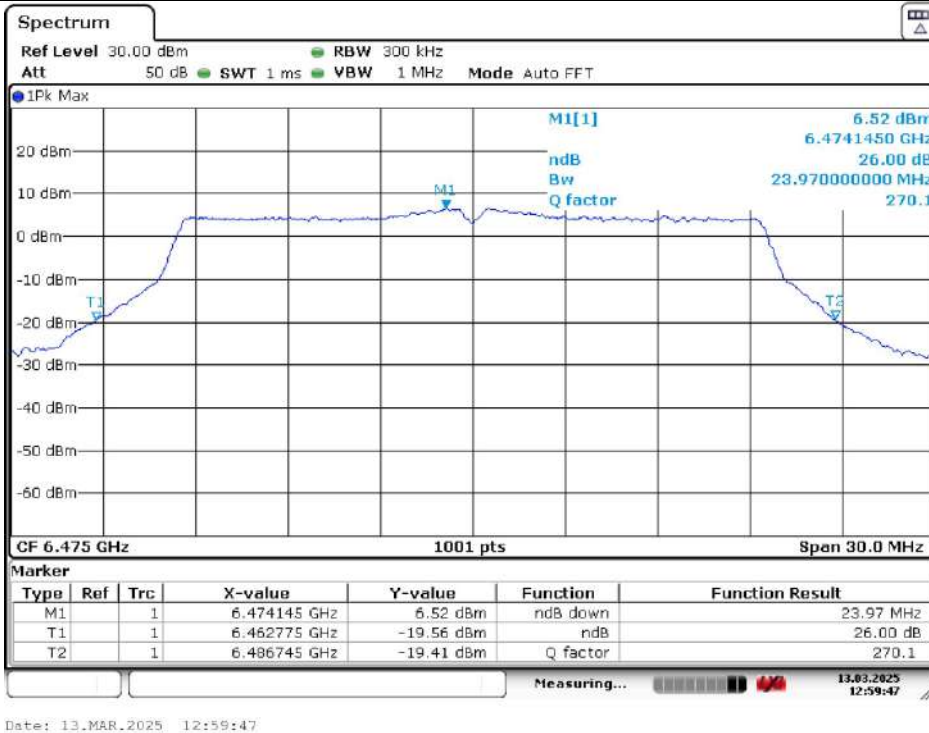


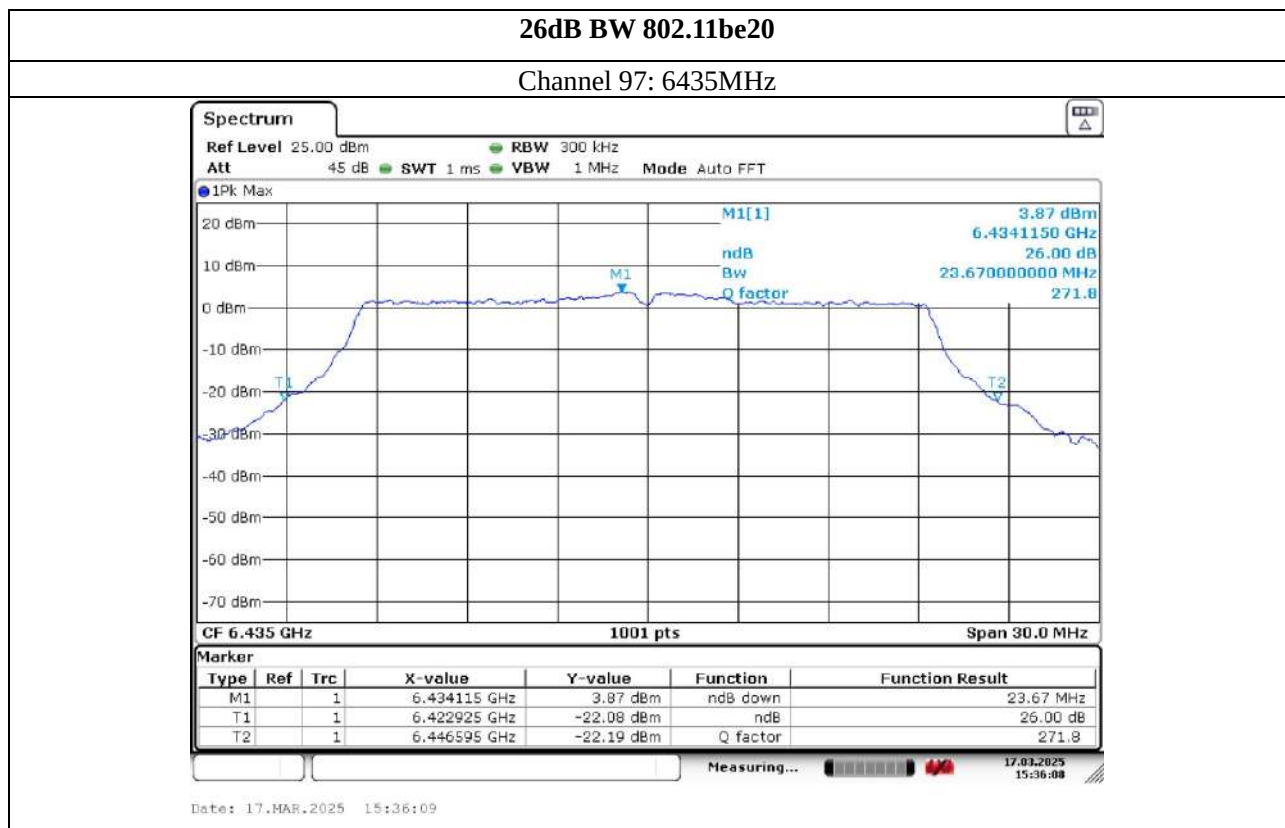
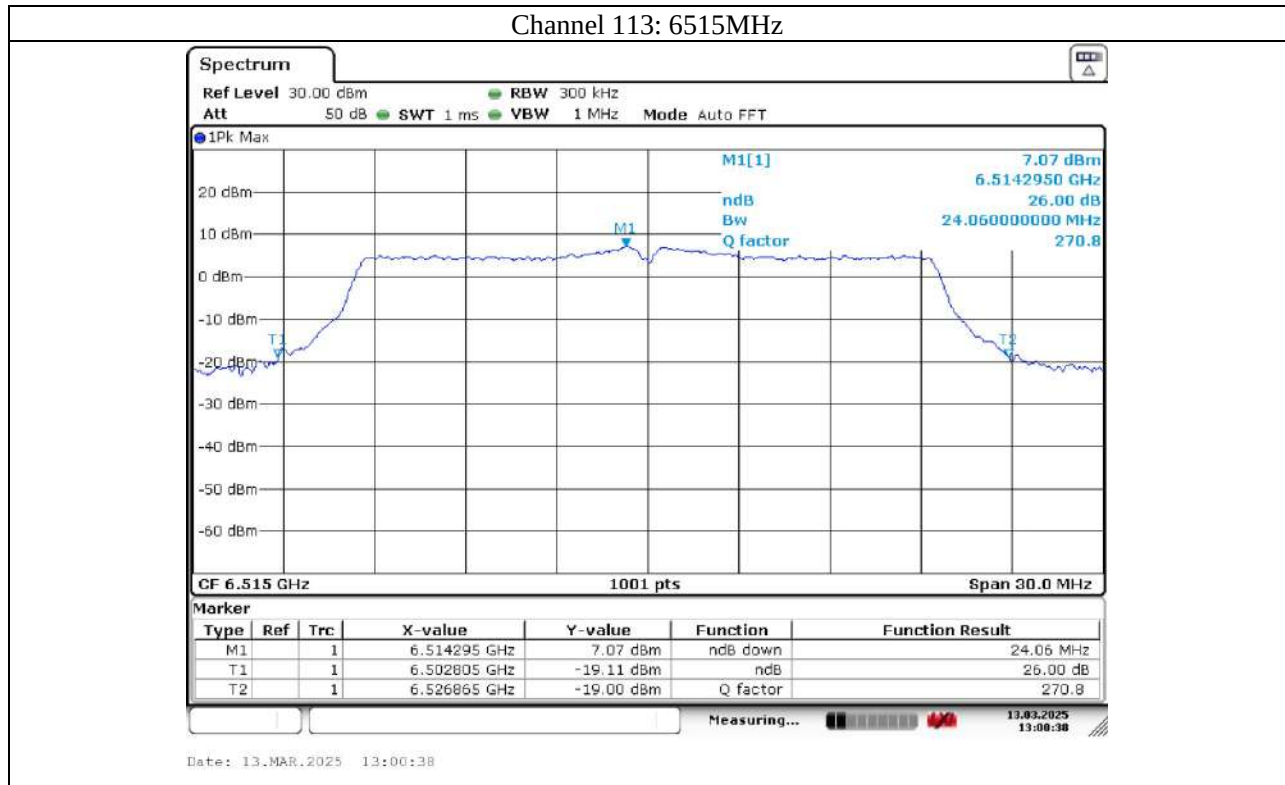
### 26dB BW 802.11ax20

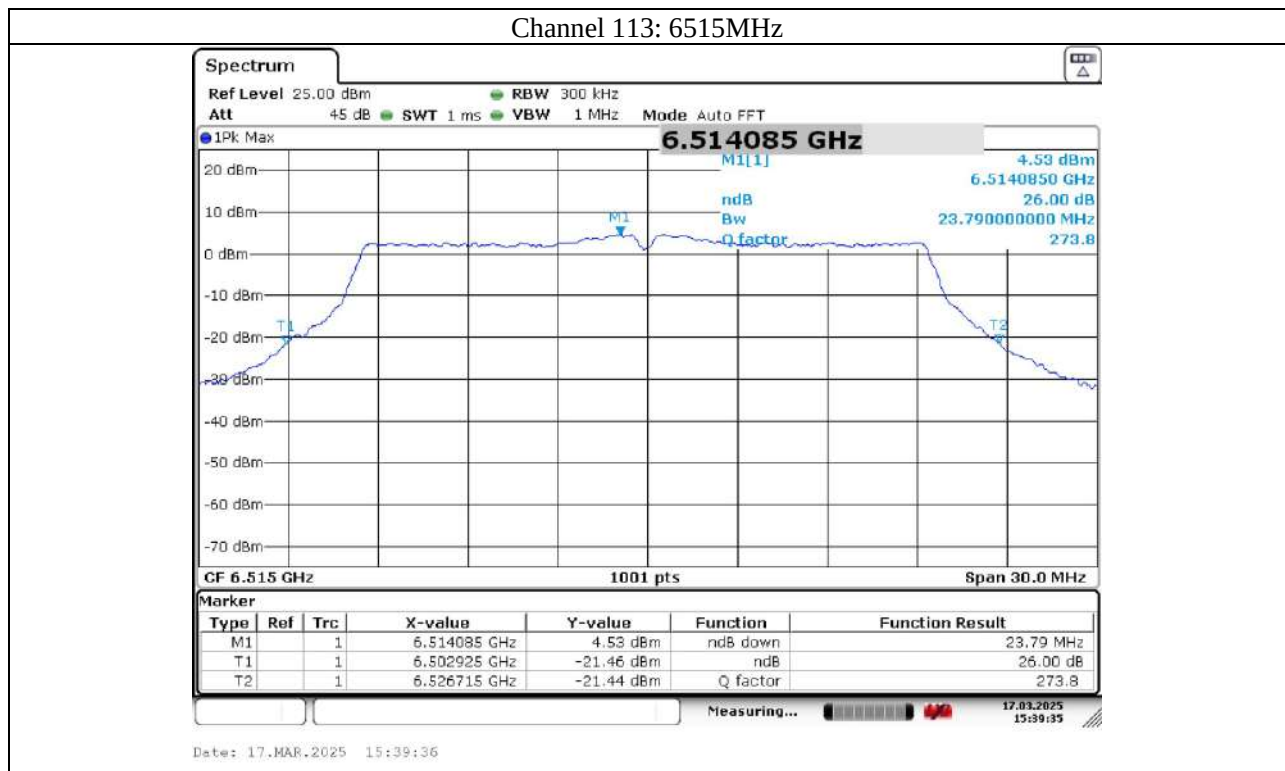
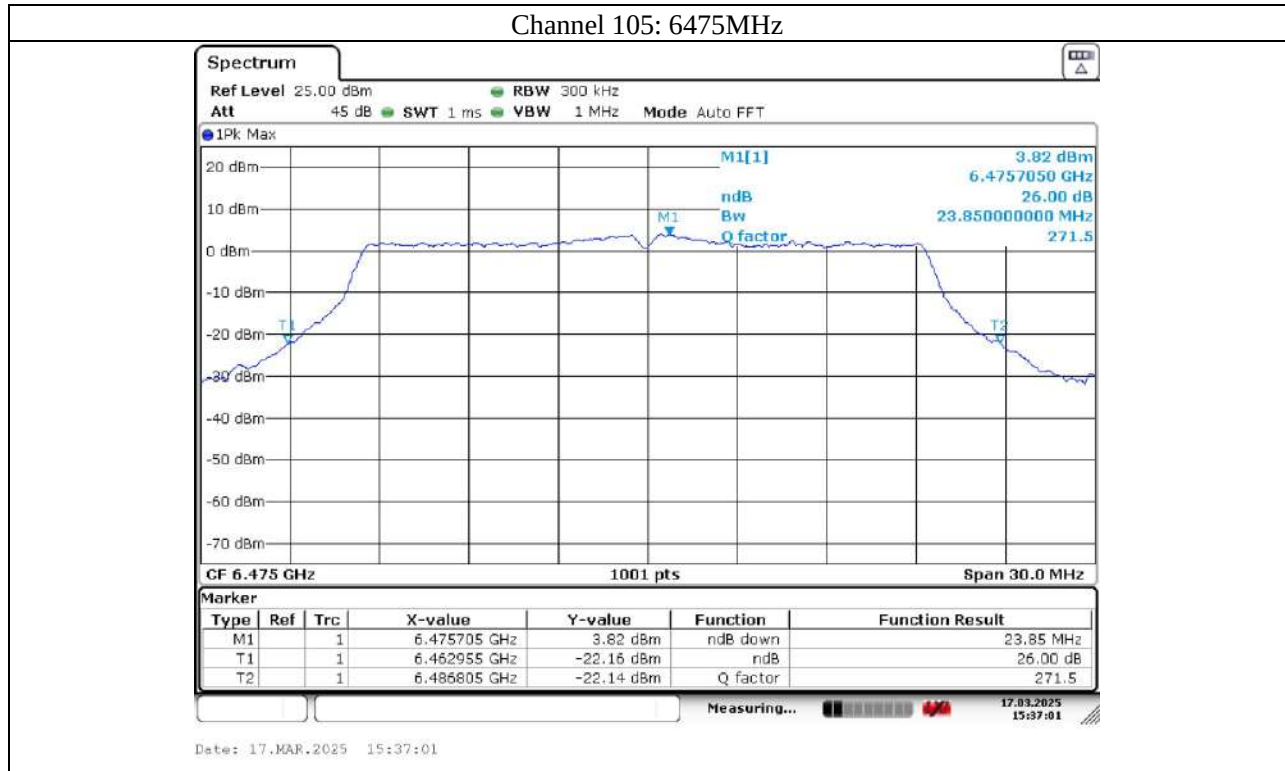
Channel 97: 6435MHz

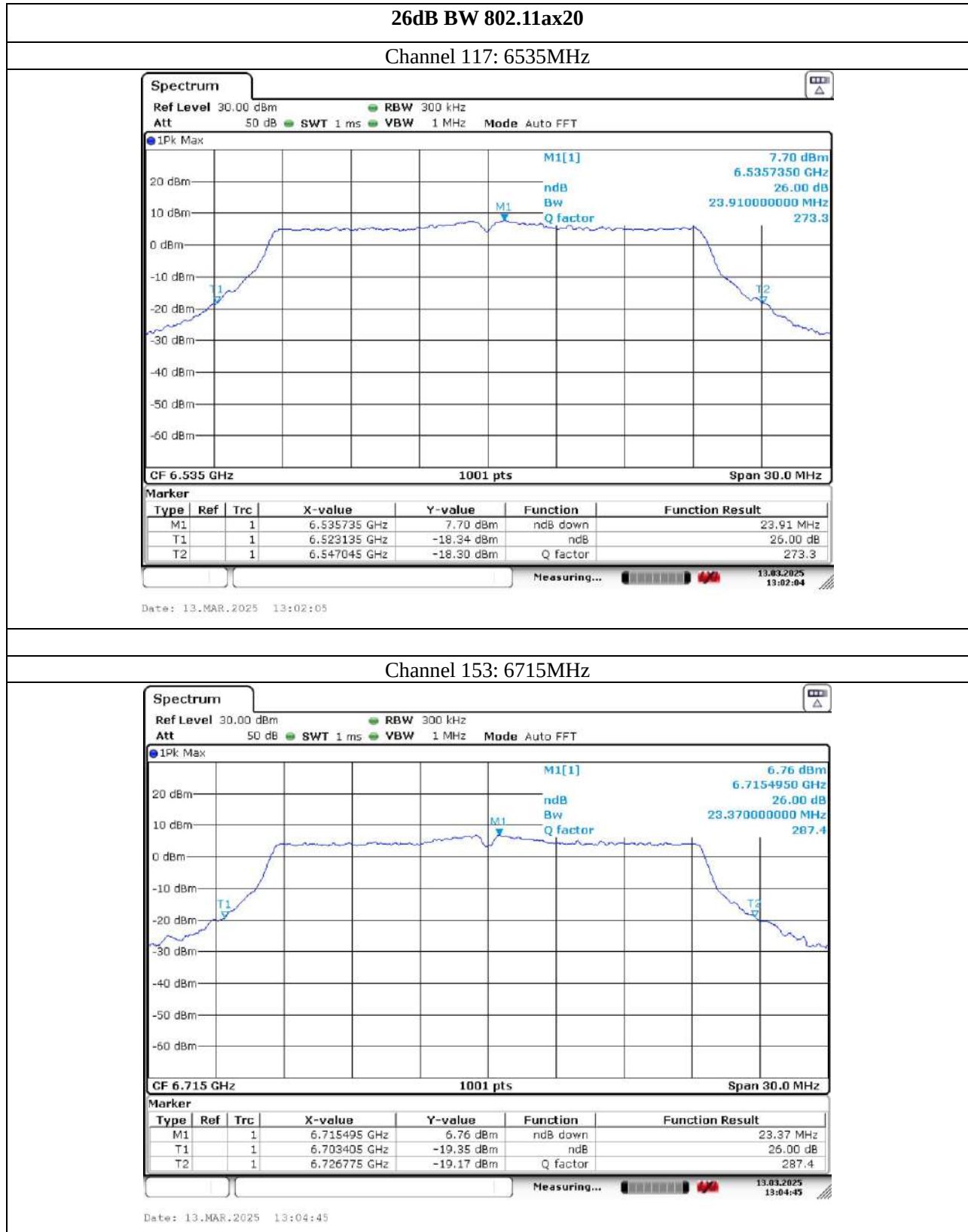


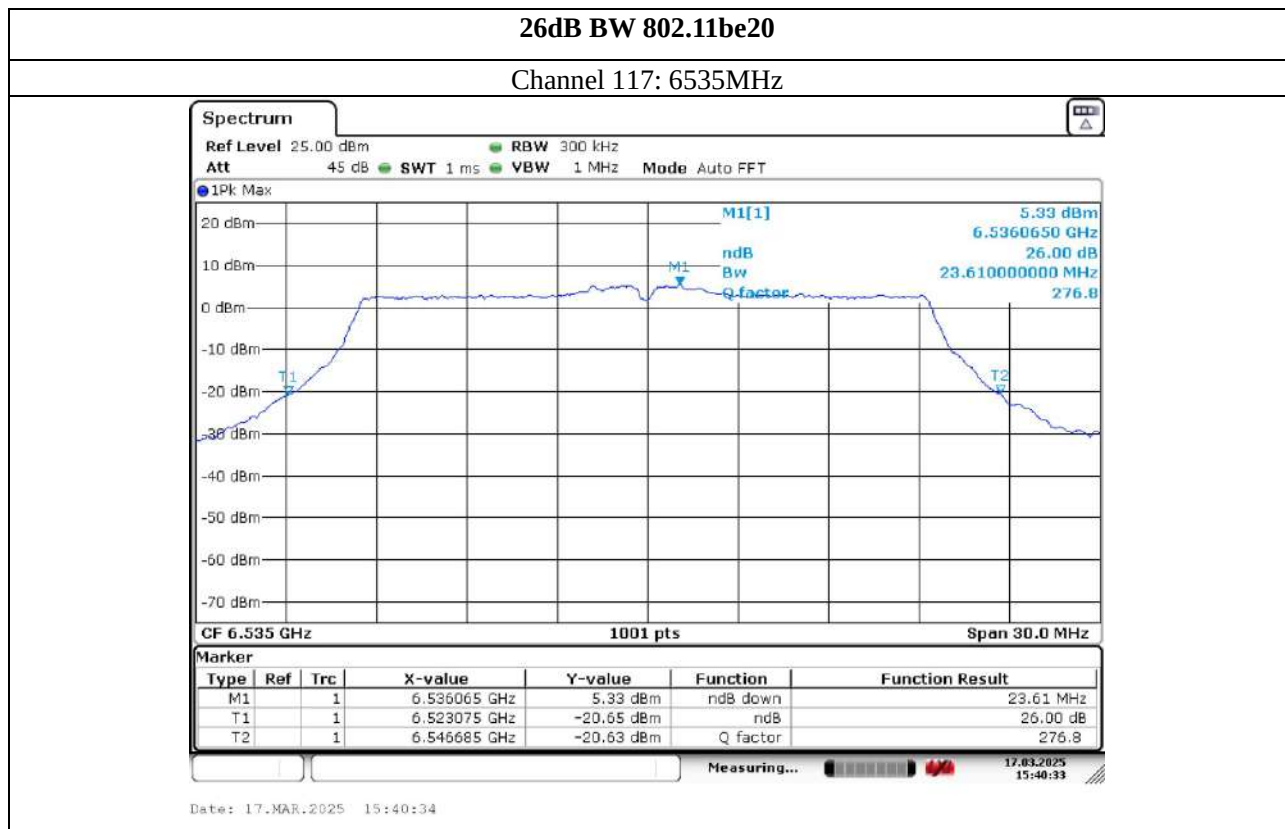
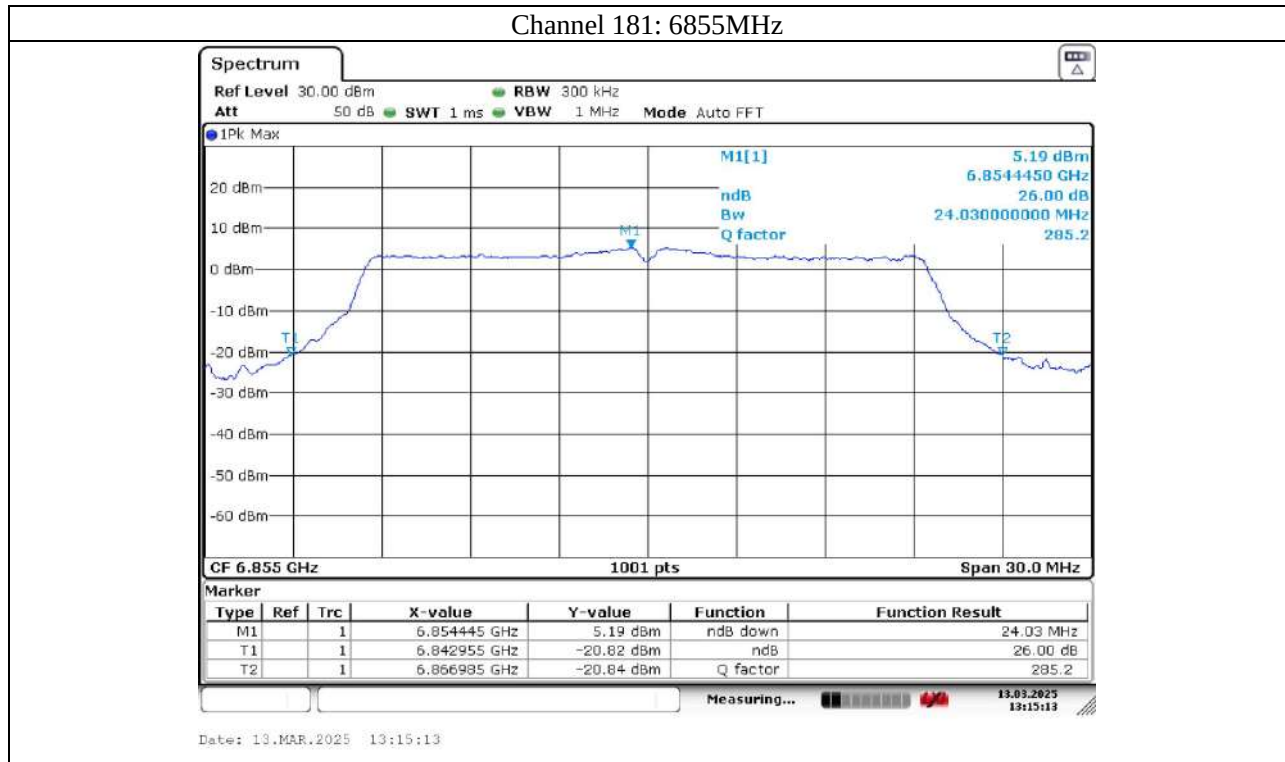
### Channel 105: 6475MHz



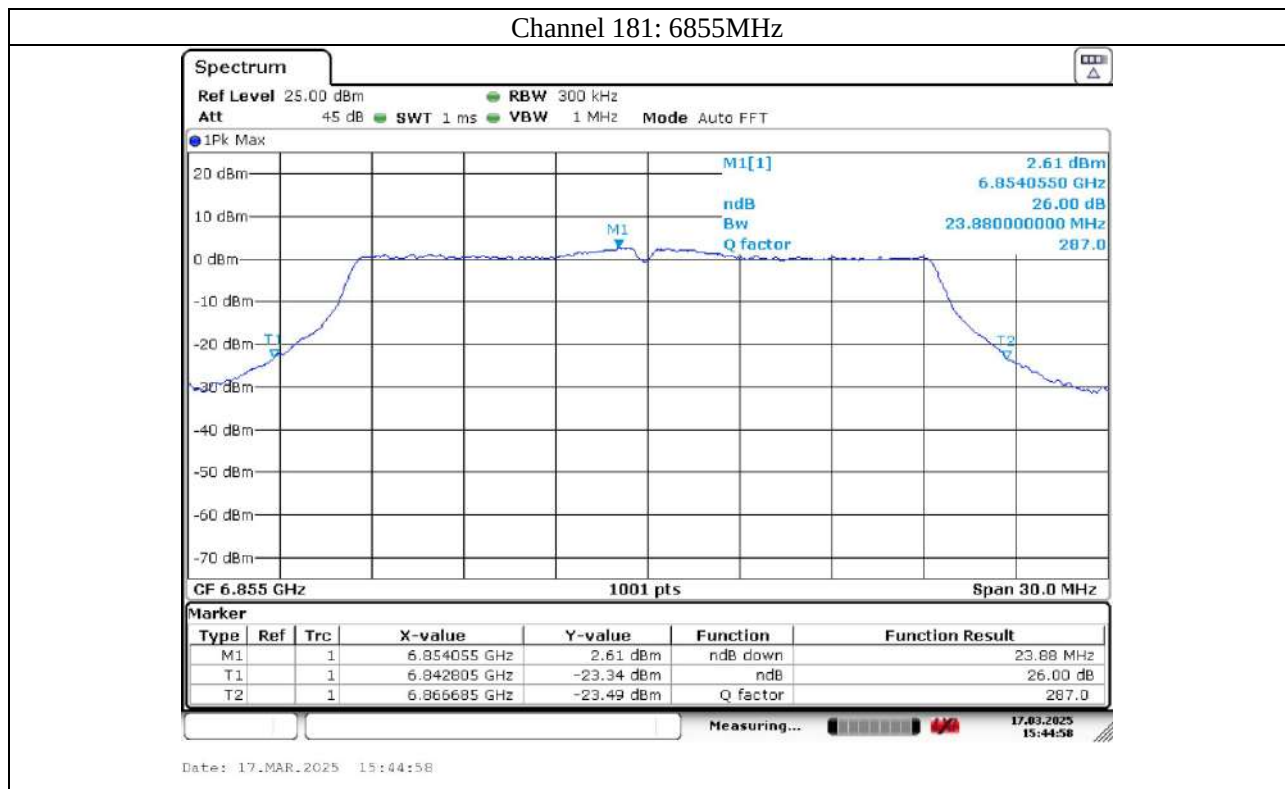
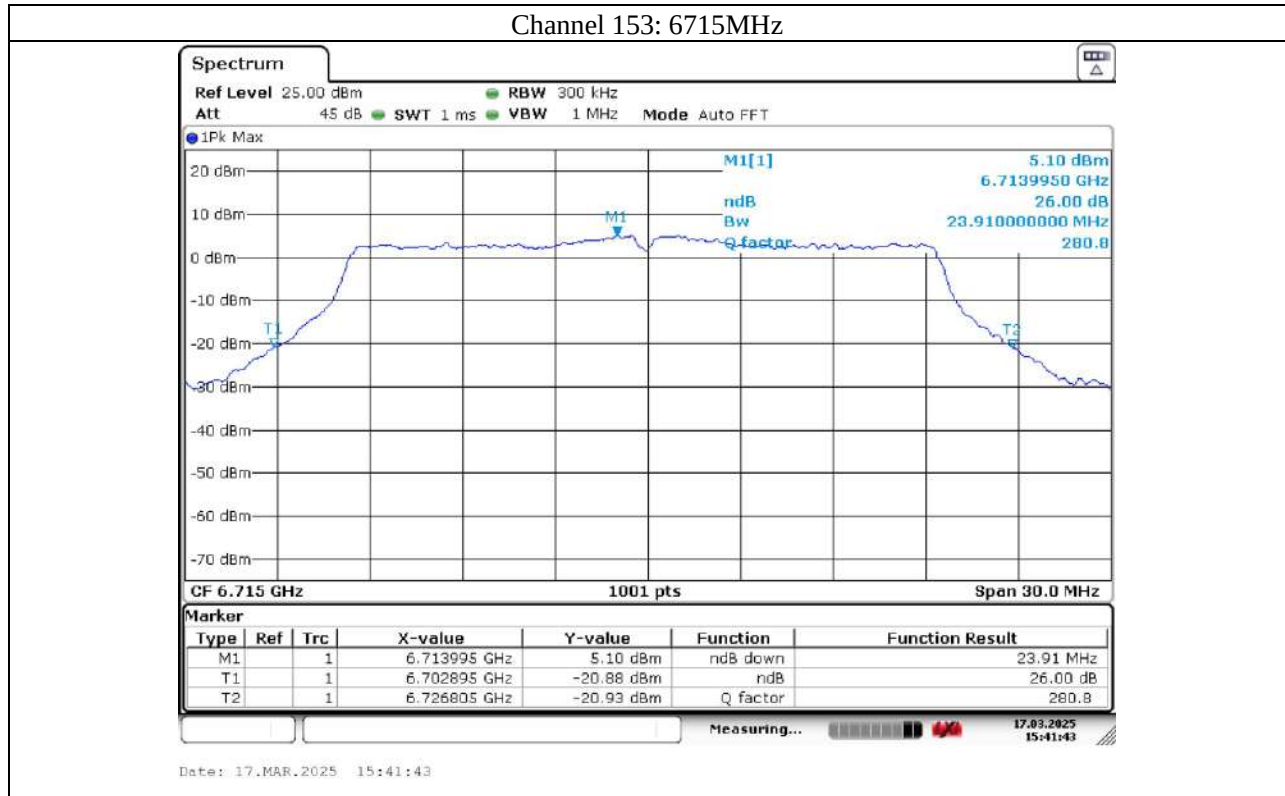




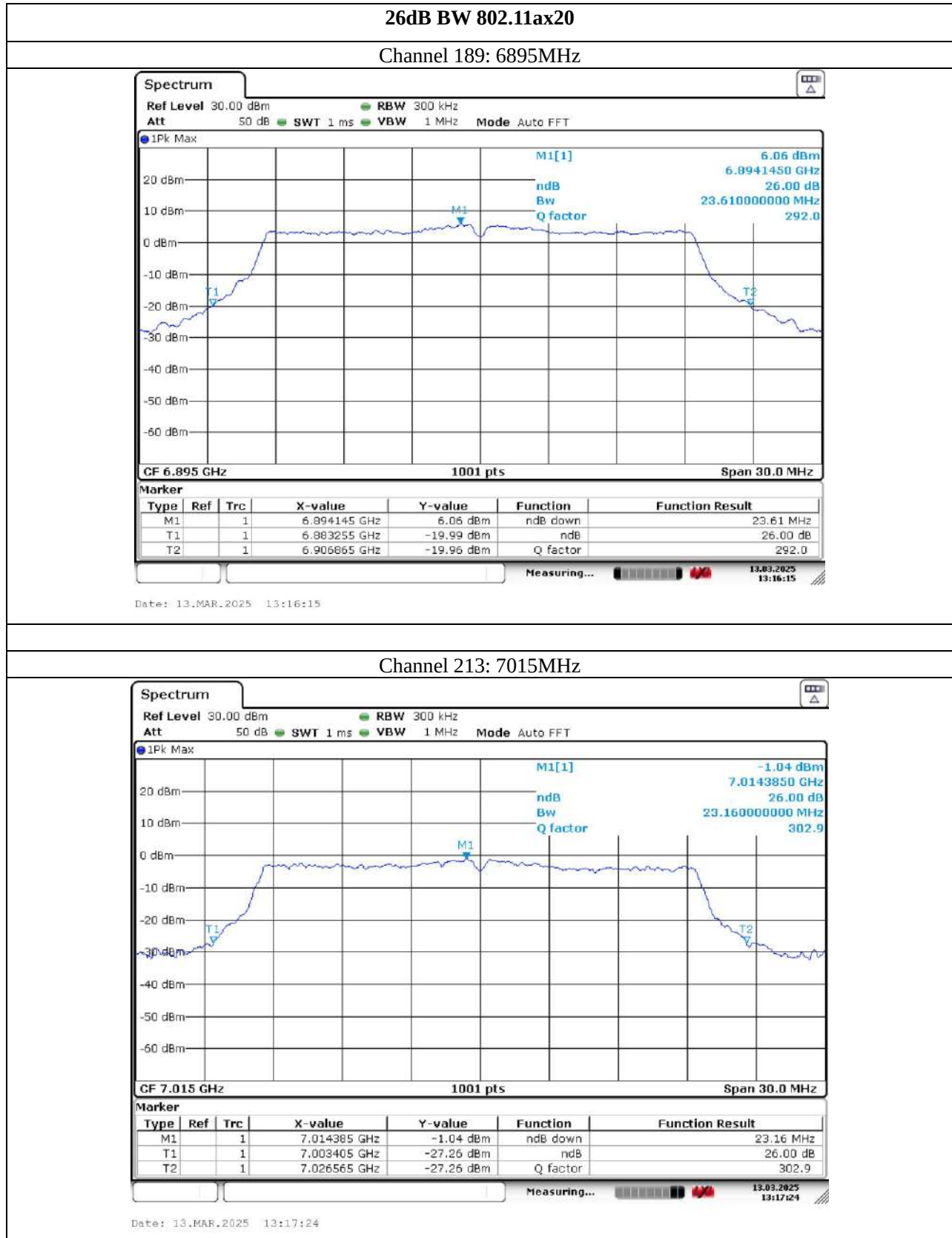


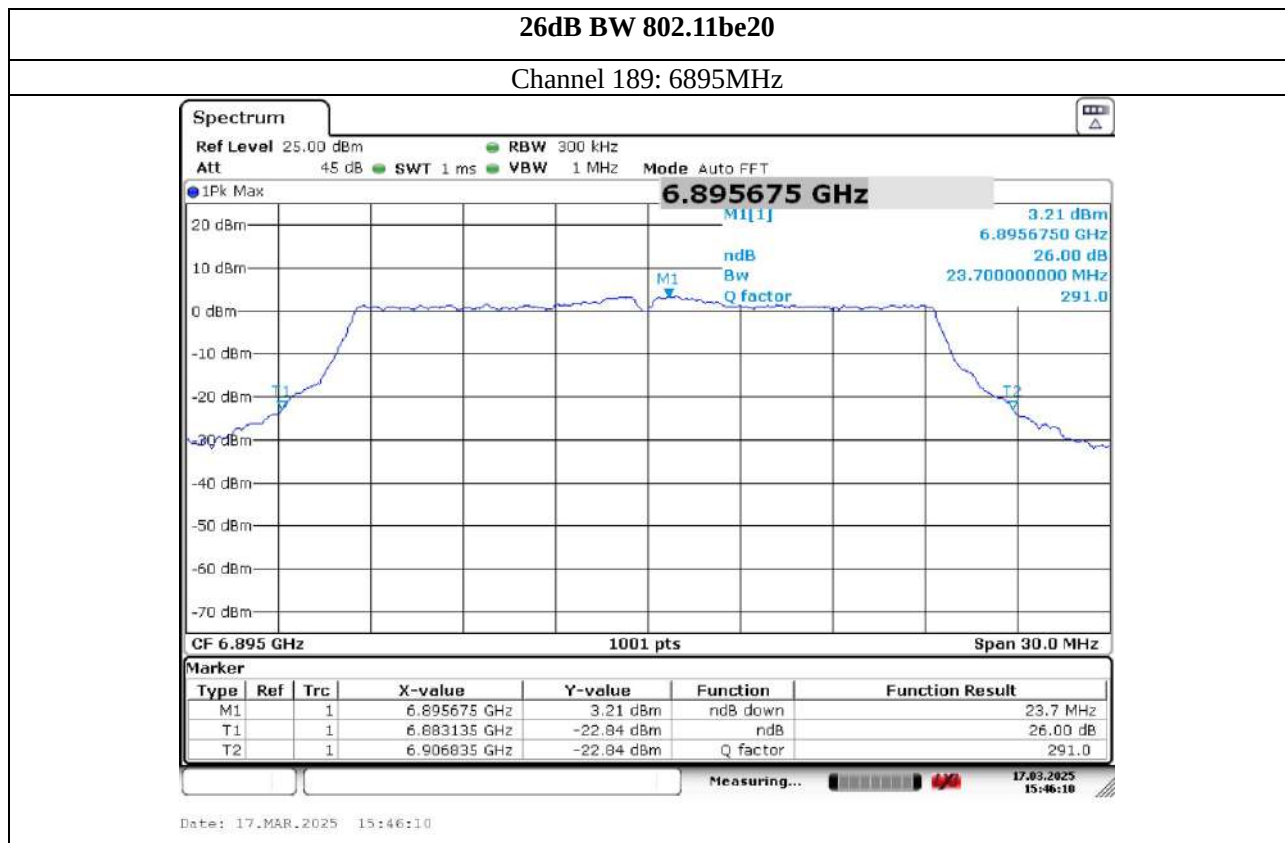
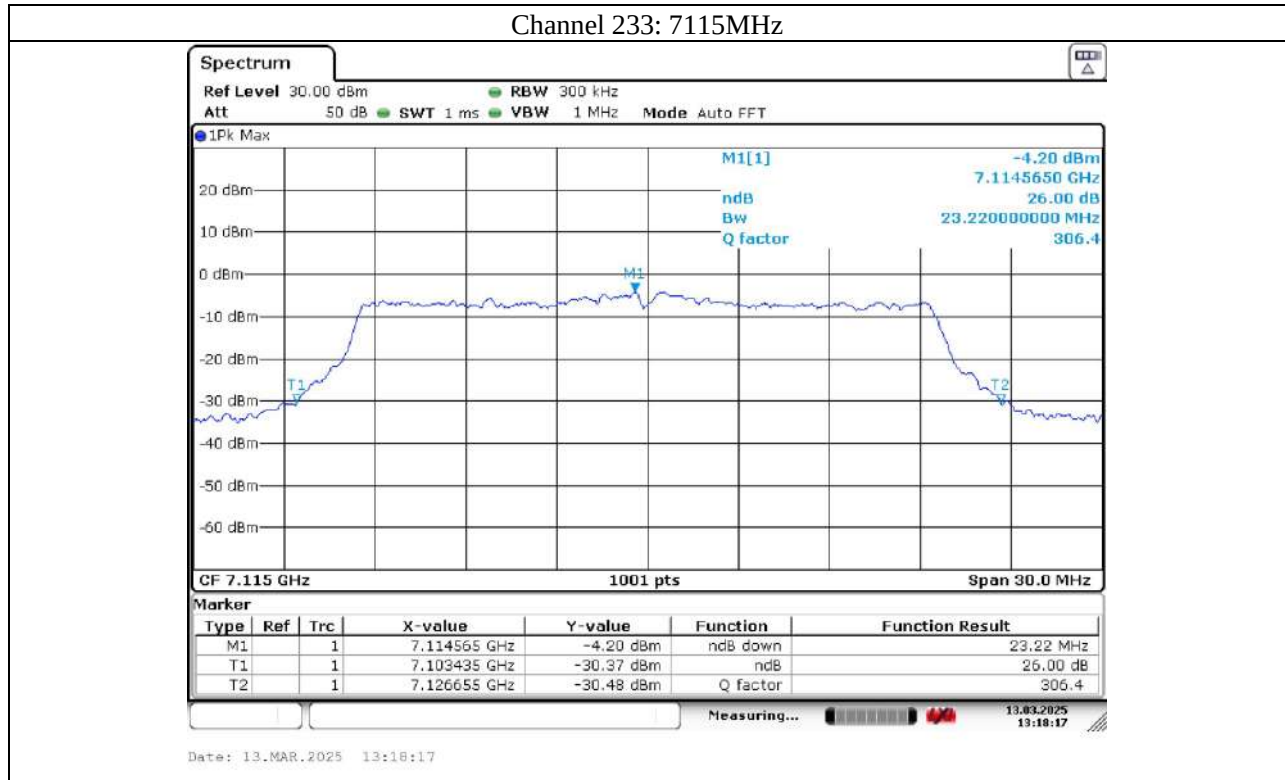


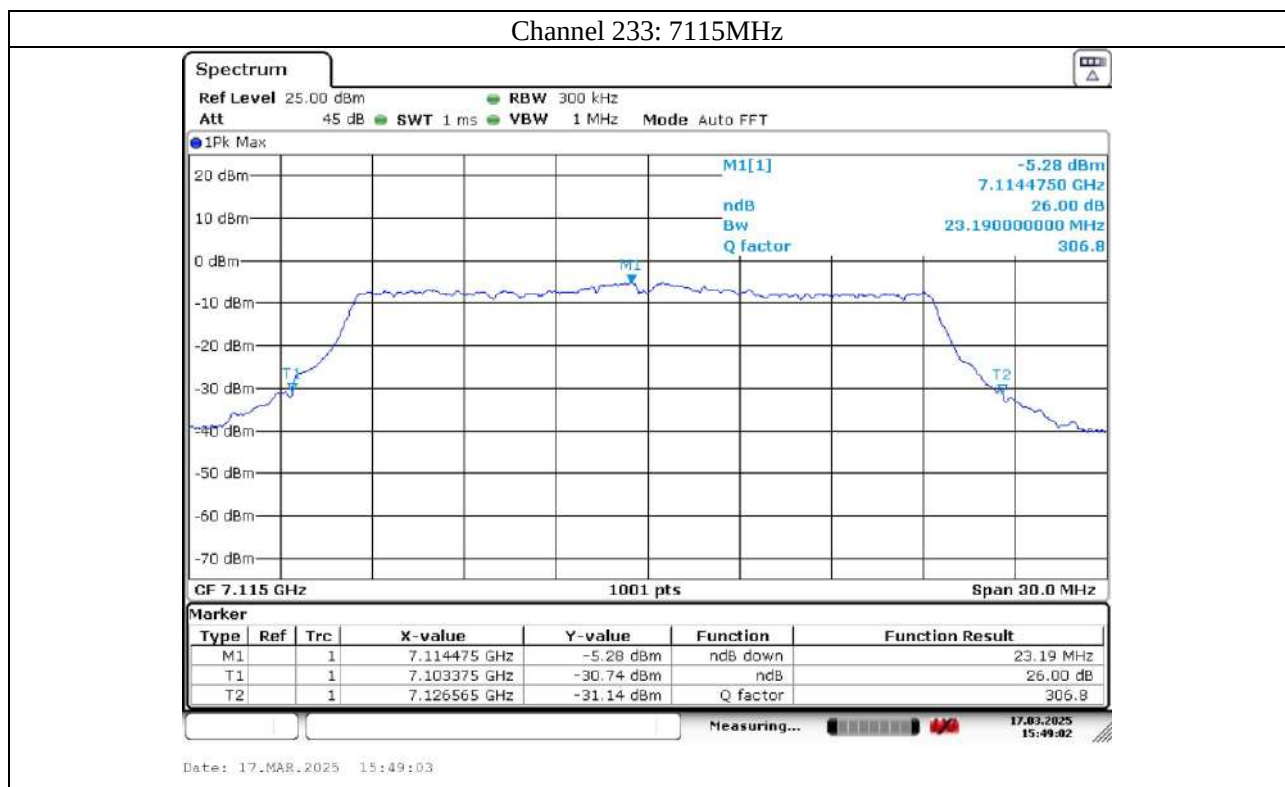
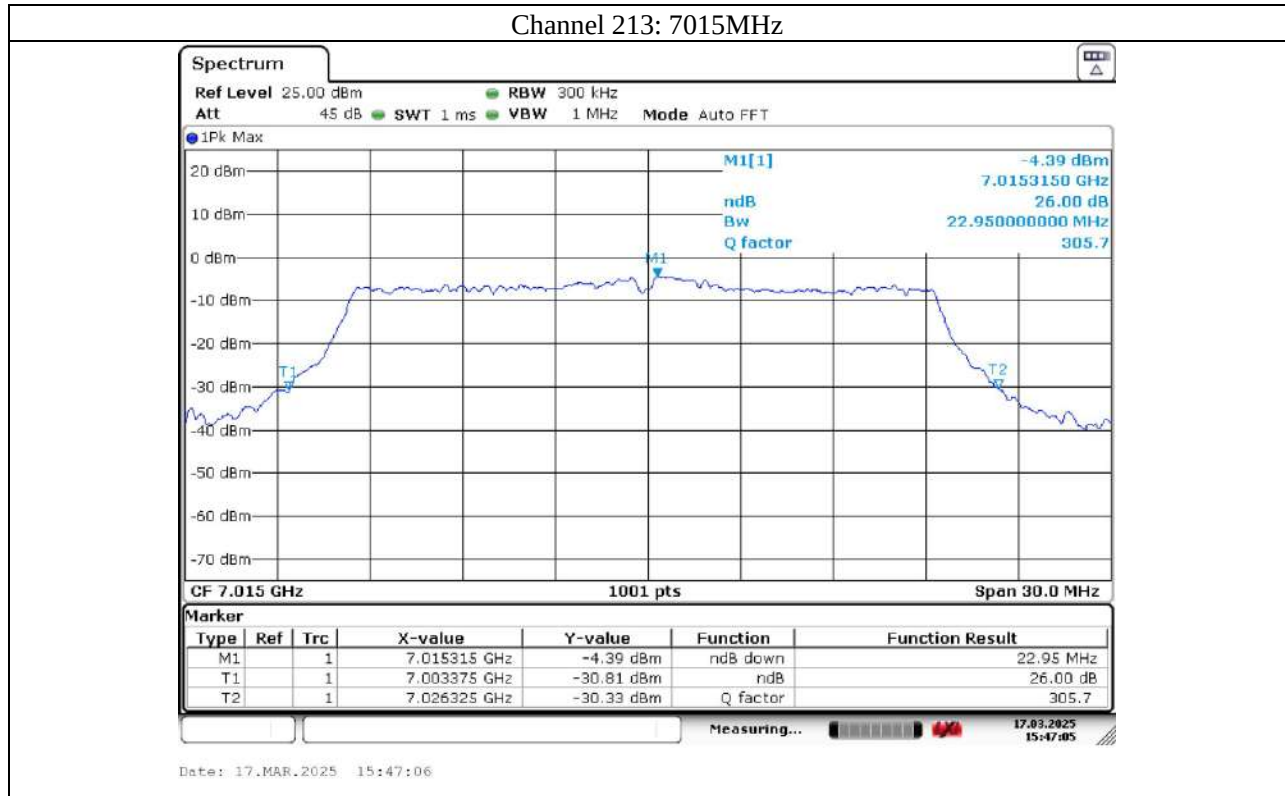






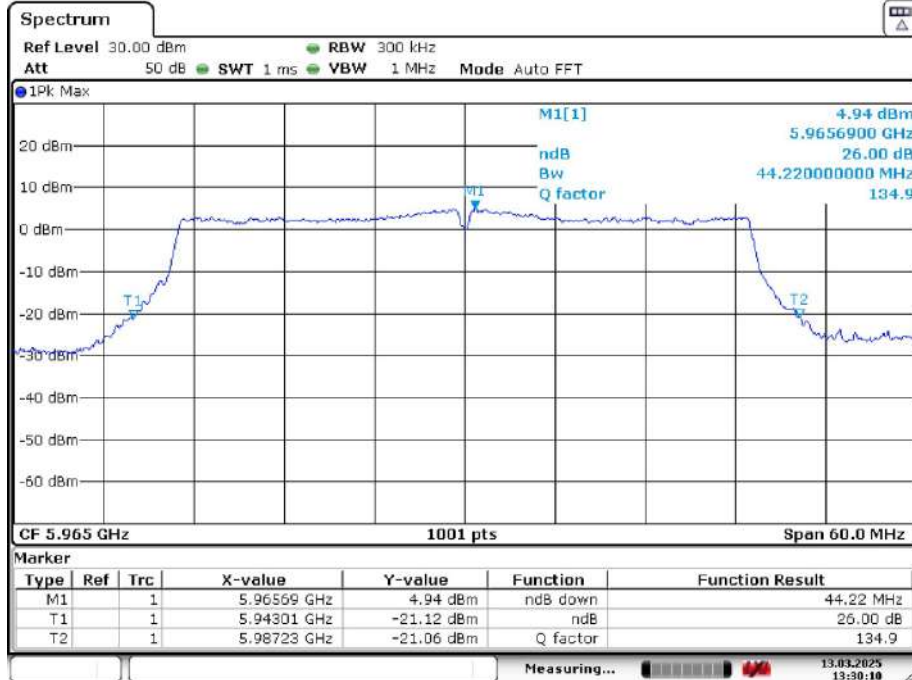






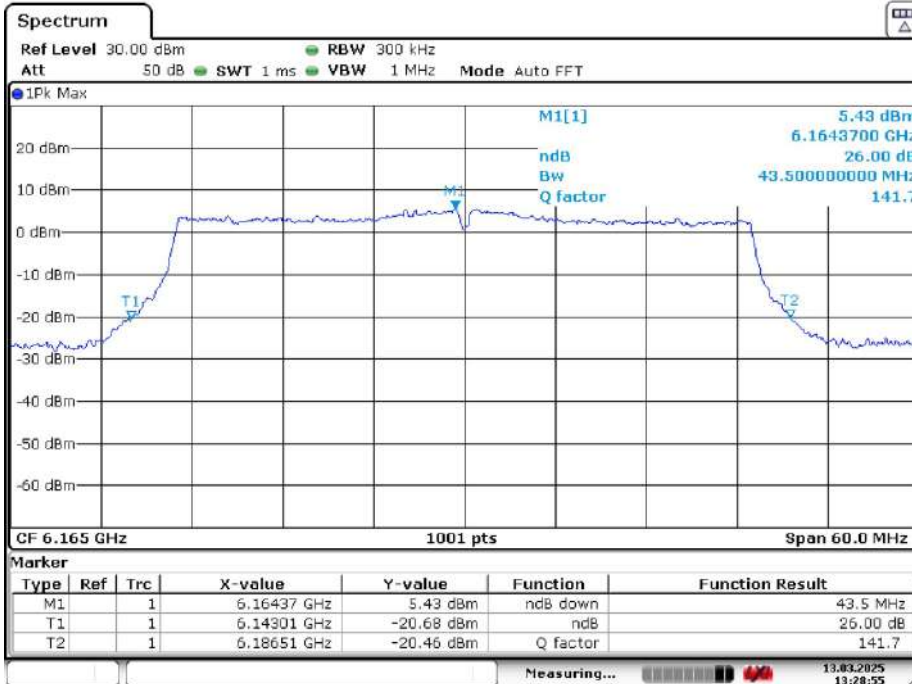
### 26dB BW 802.11ax40

Channel 3: 5965MHz

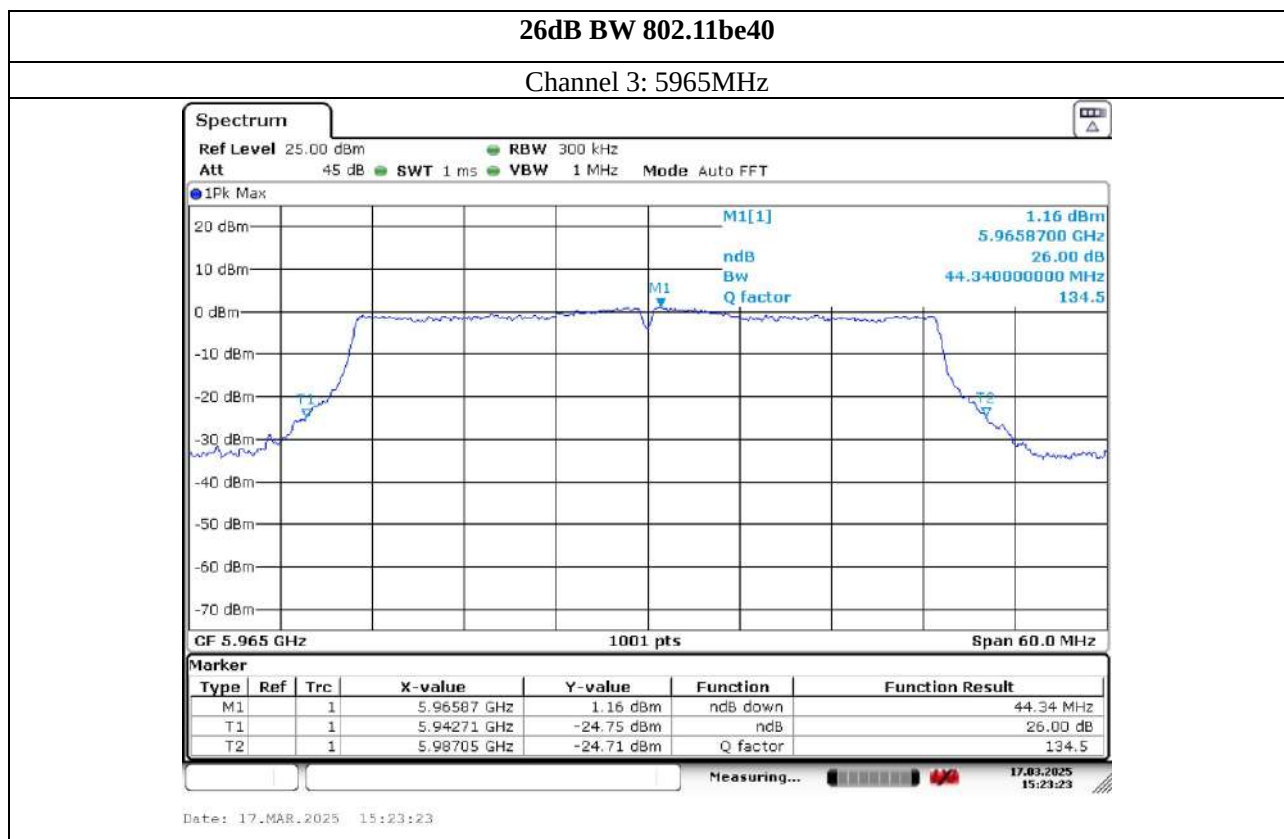
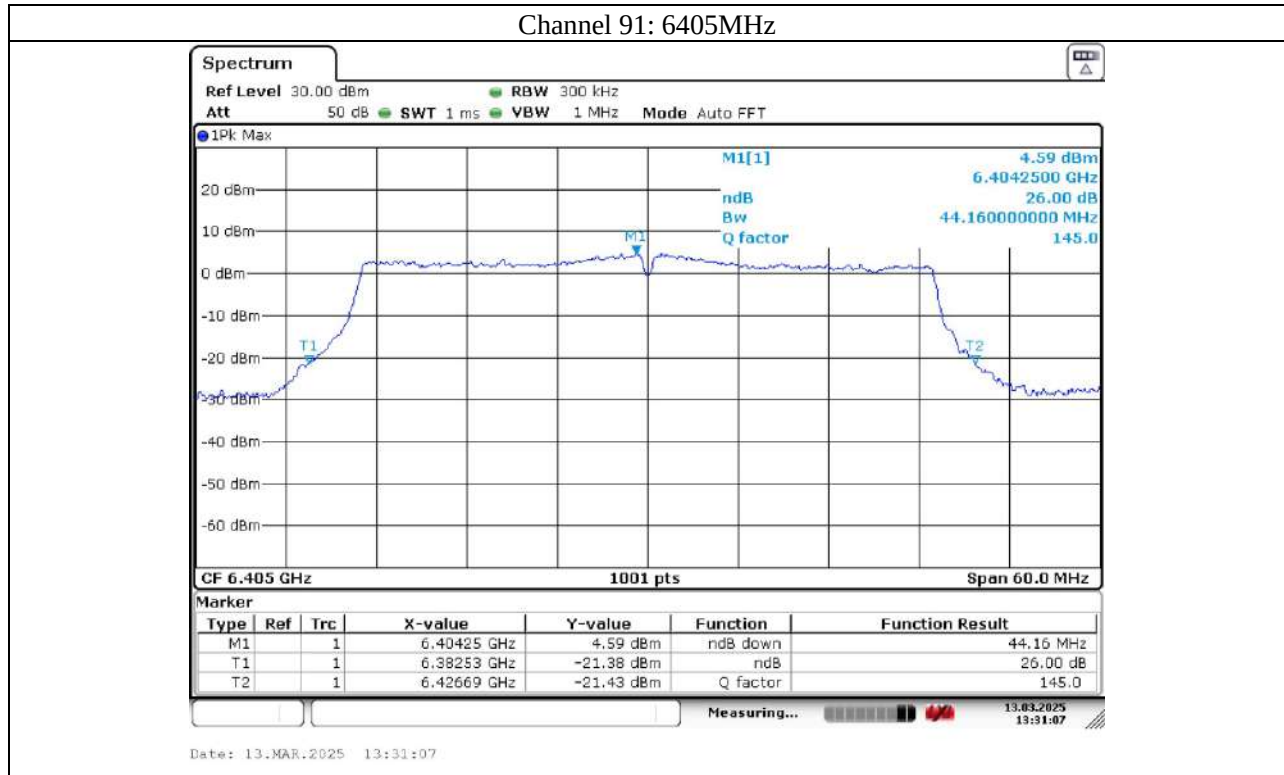


Date: 13.MAR.2025 13:30:10

### Channel 43: 6165MHz



Date: 13.MAR.2025 13:28:56



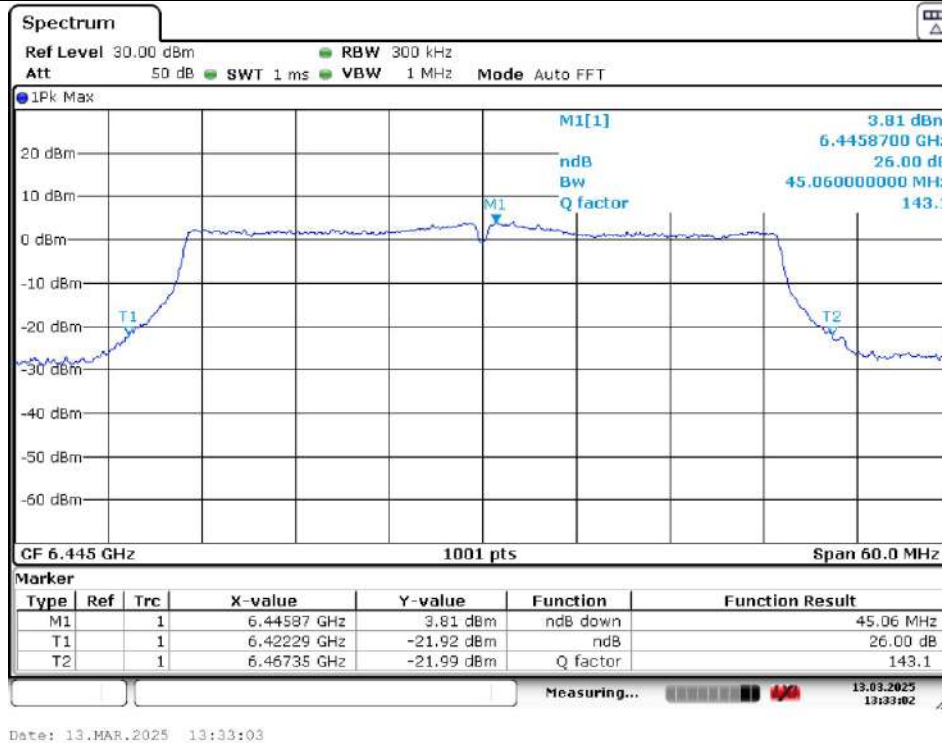




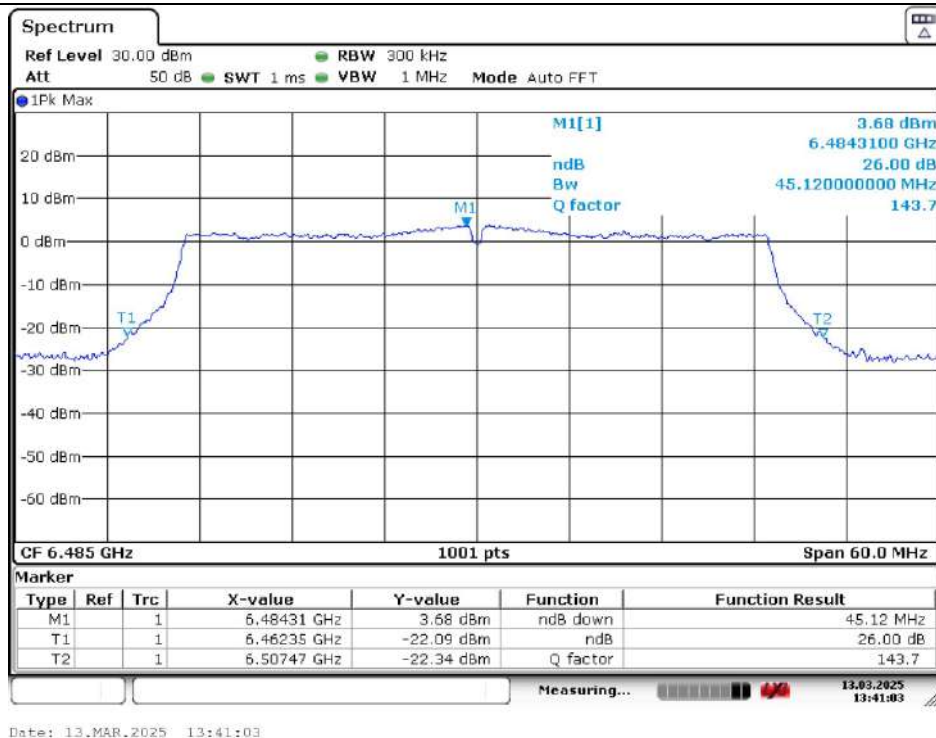


### 26dB BW 802.11ax40

Channel 99: 6445MHz

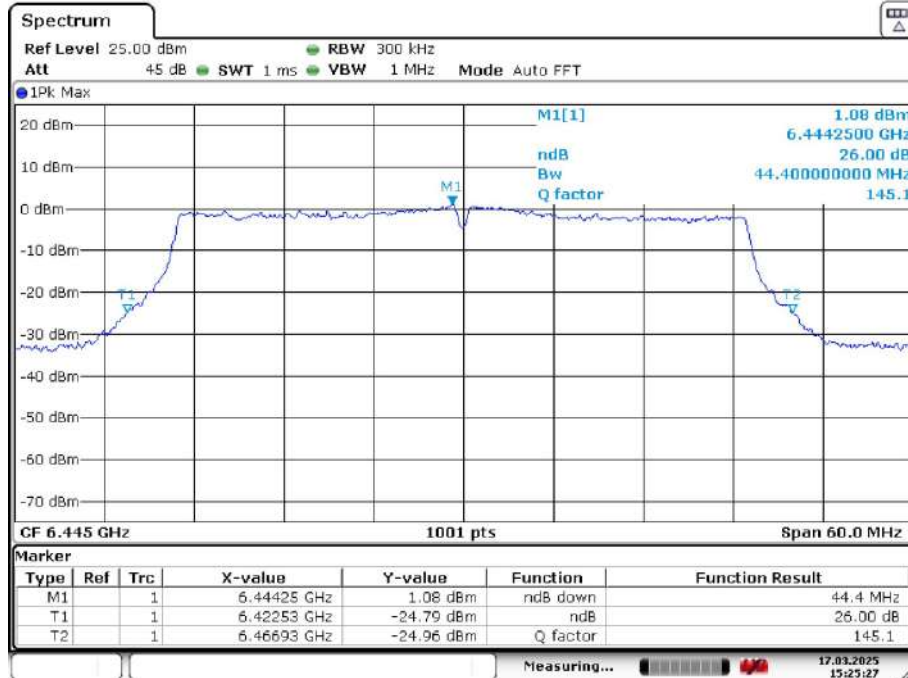


### Channel 107: 6485MHz

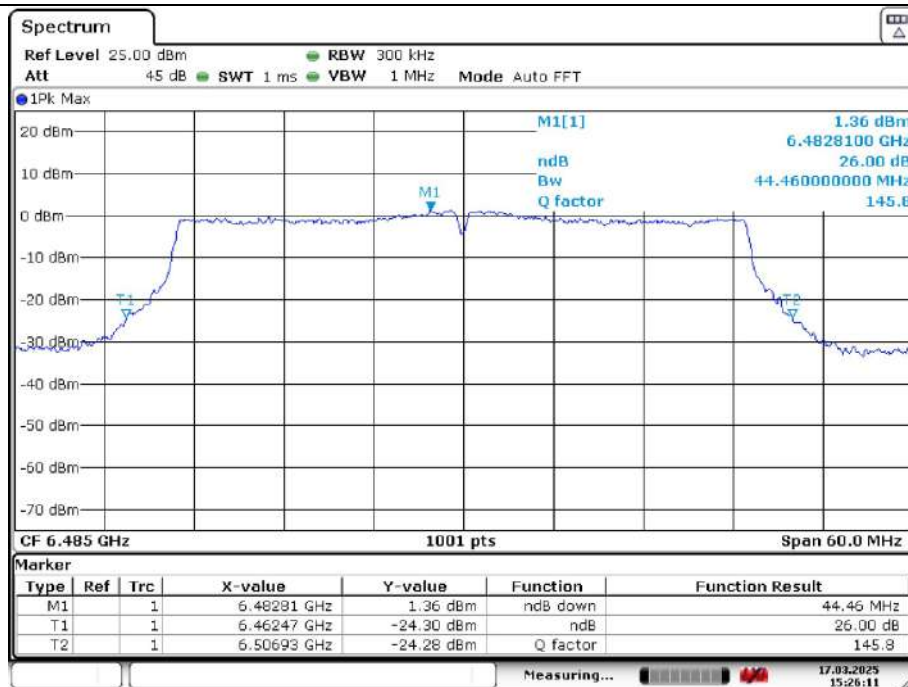


### 26dB BW 802.11be40

Channel 99: 6445MHz

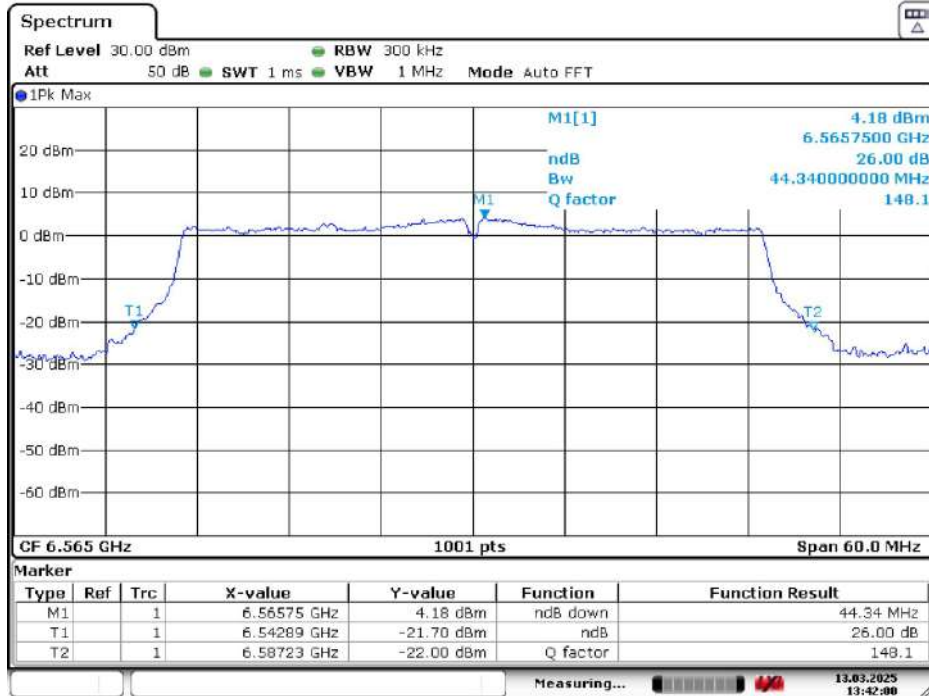


### Channel 107: 6485MHz



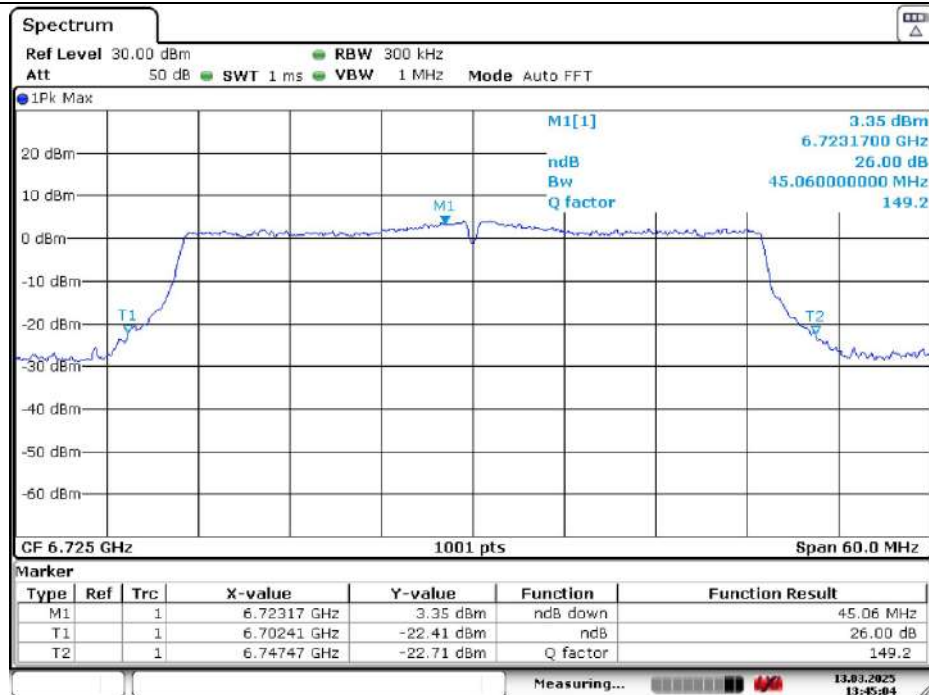
### 26dB BW 802.11ax40

Channel 123: 6565MHz

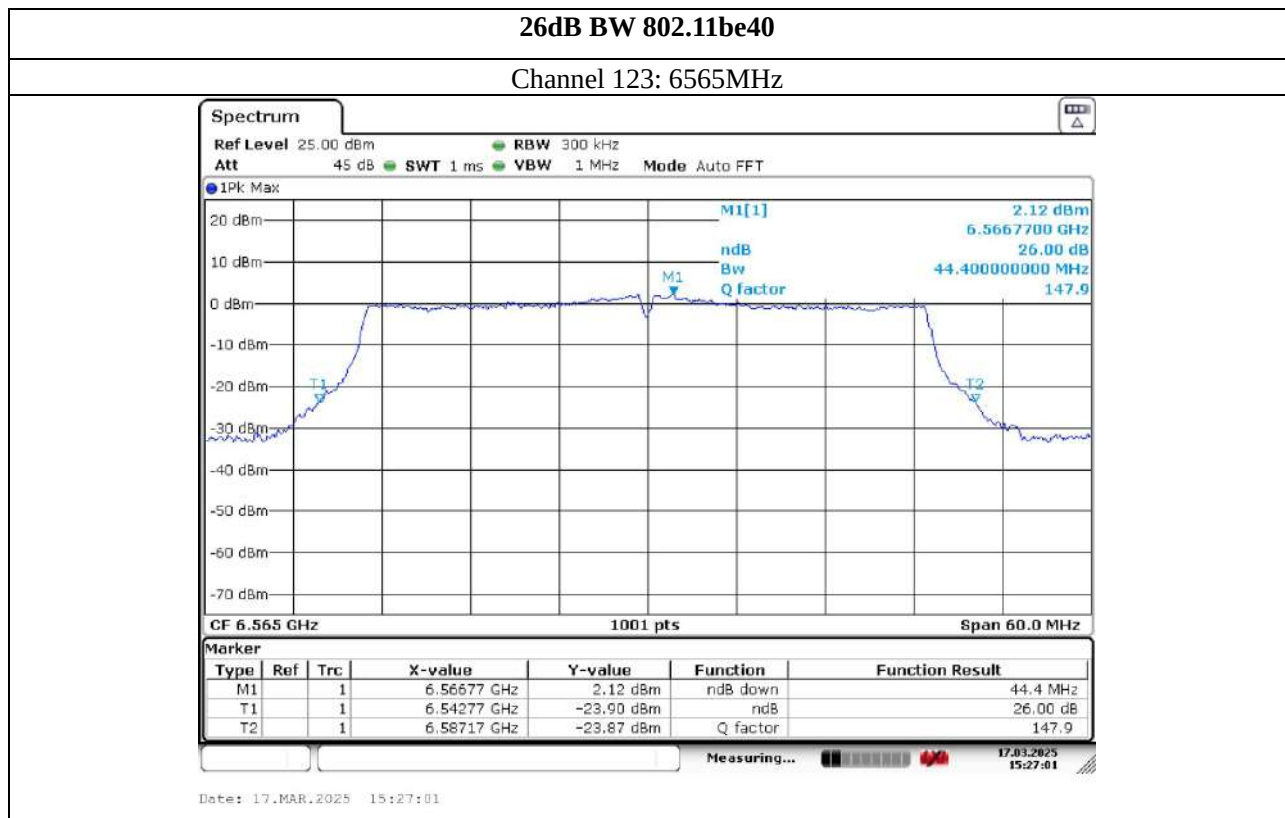
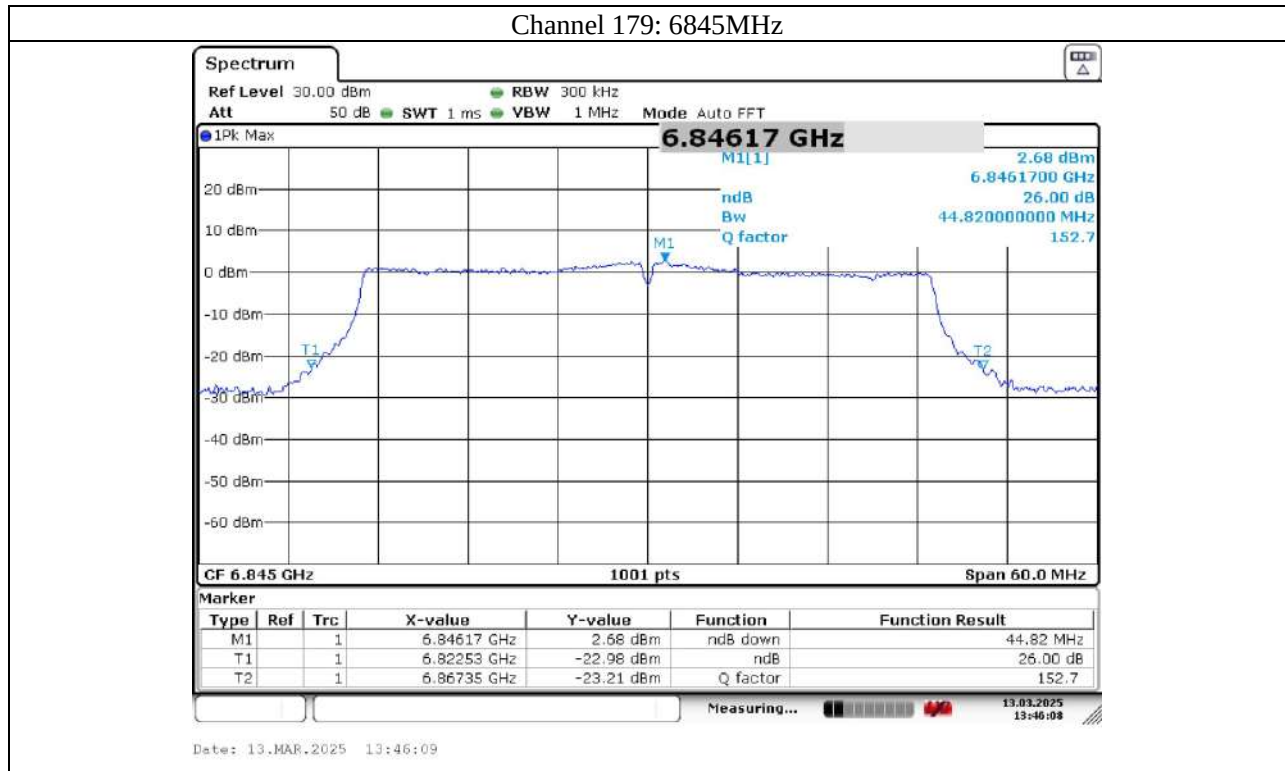


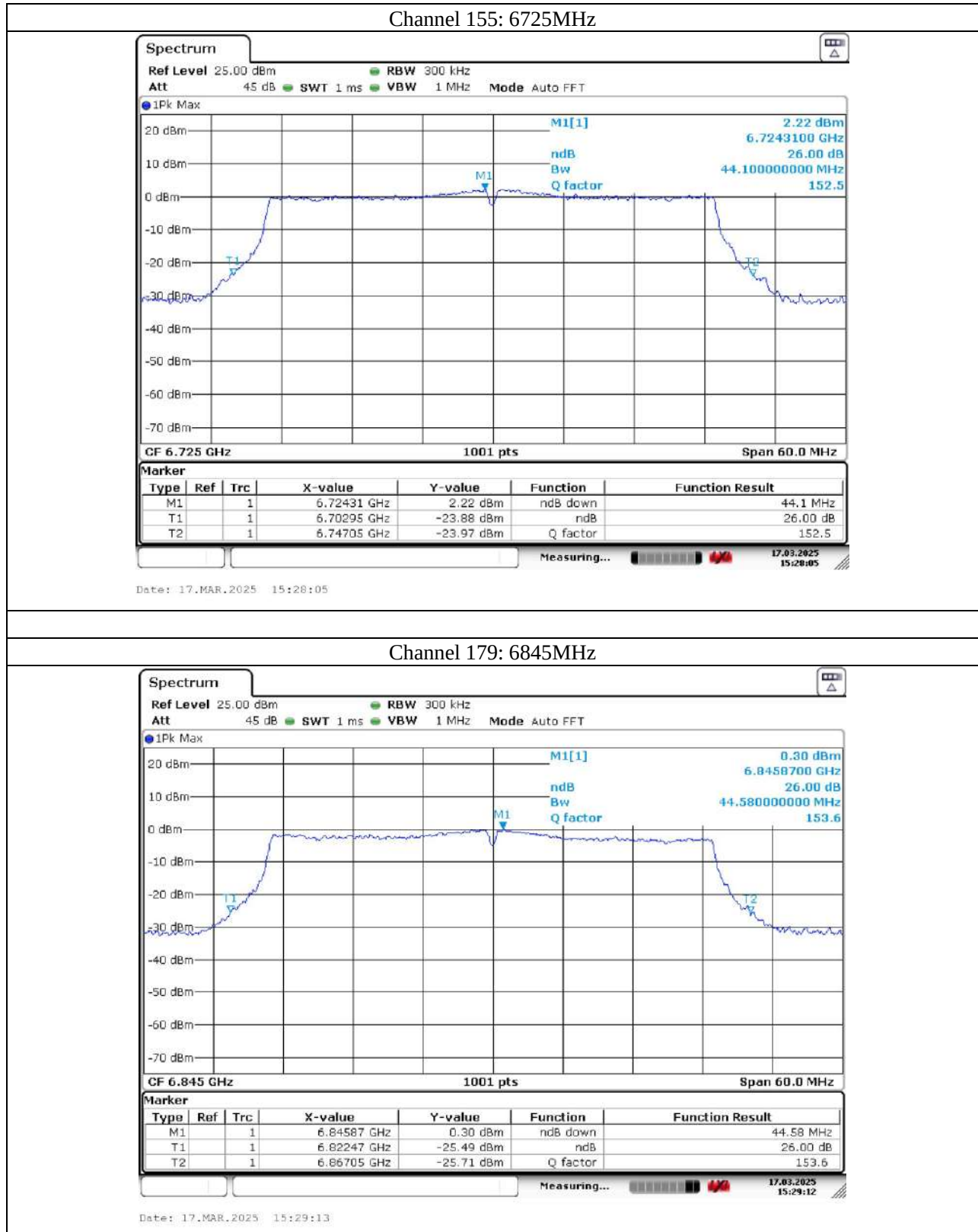
Date: 13.MAR.2025 13:42:01

### Channel 155: 6725MHz

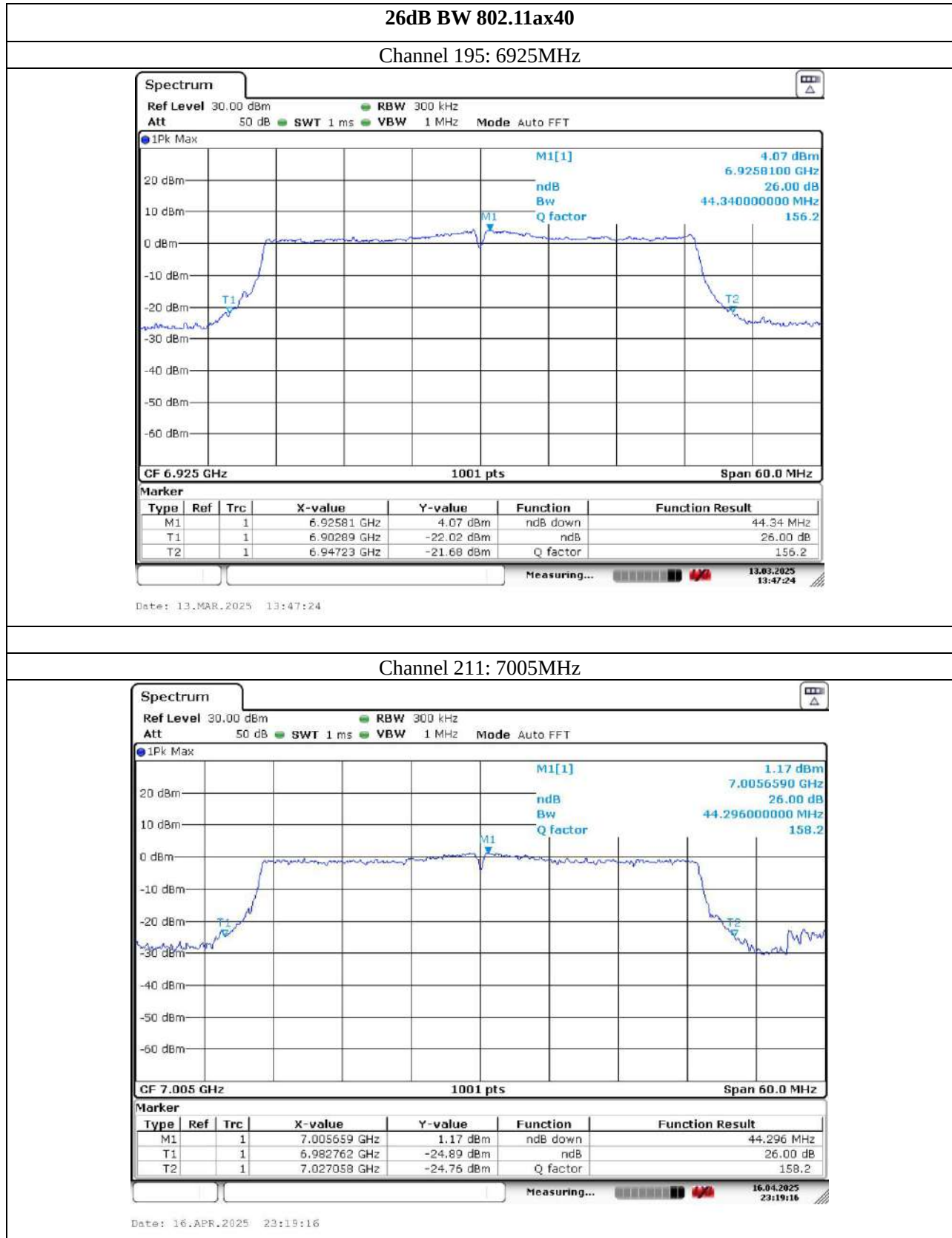


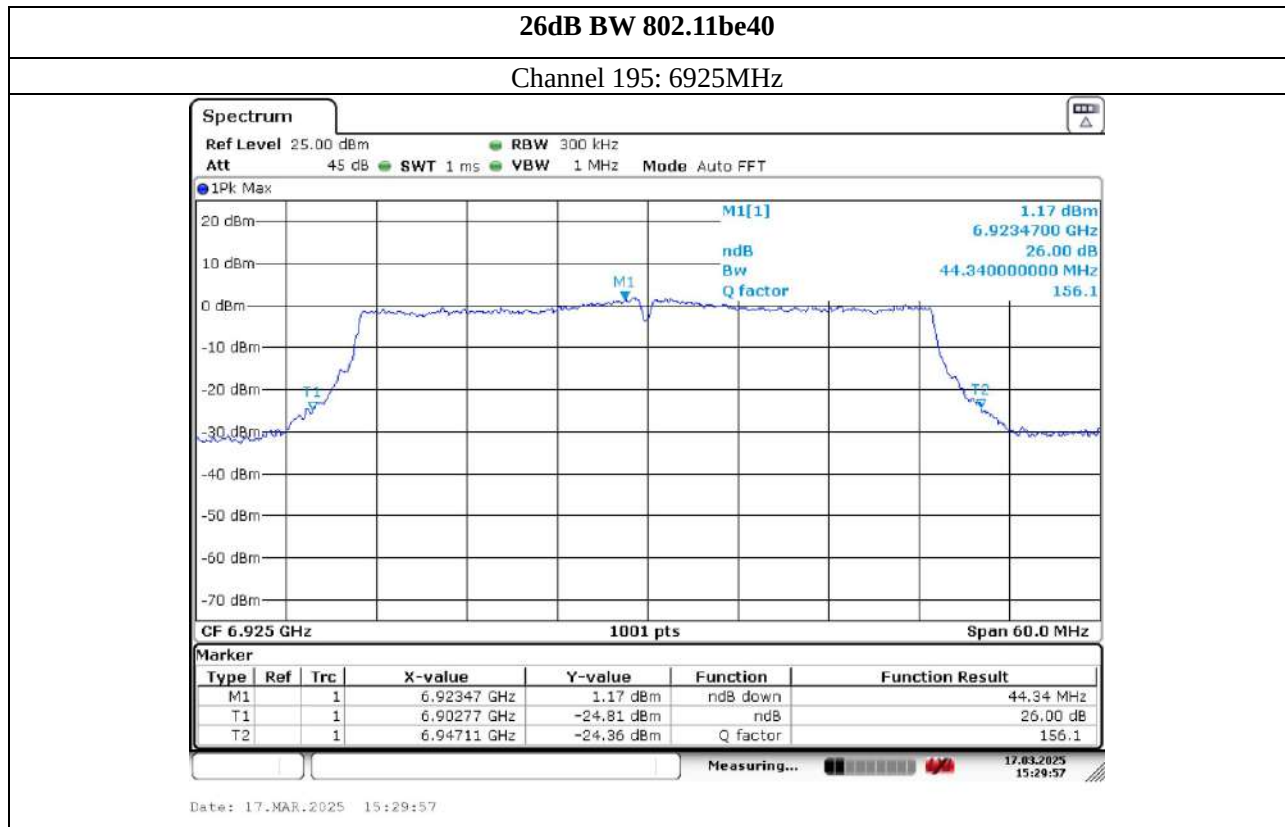
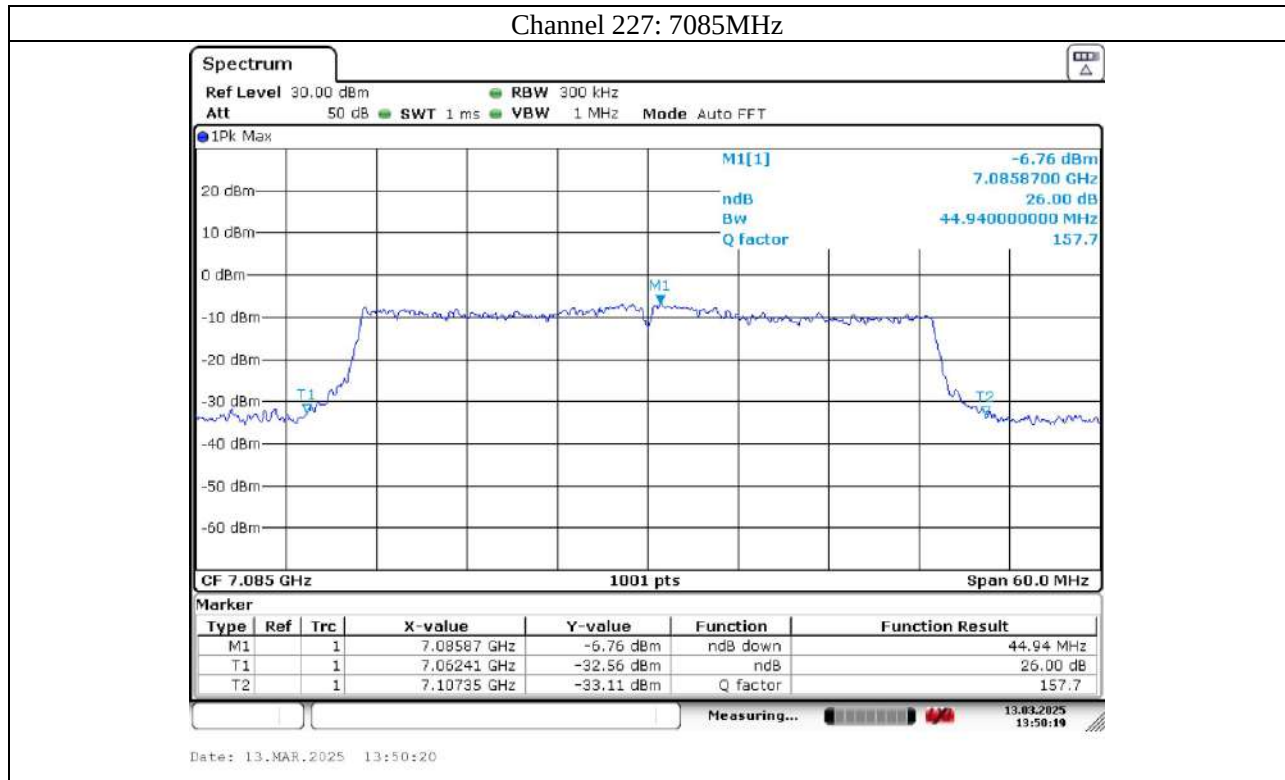
Date: 13.MAR.2025 13:45:04

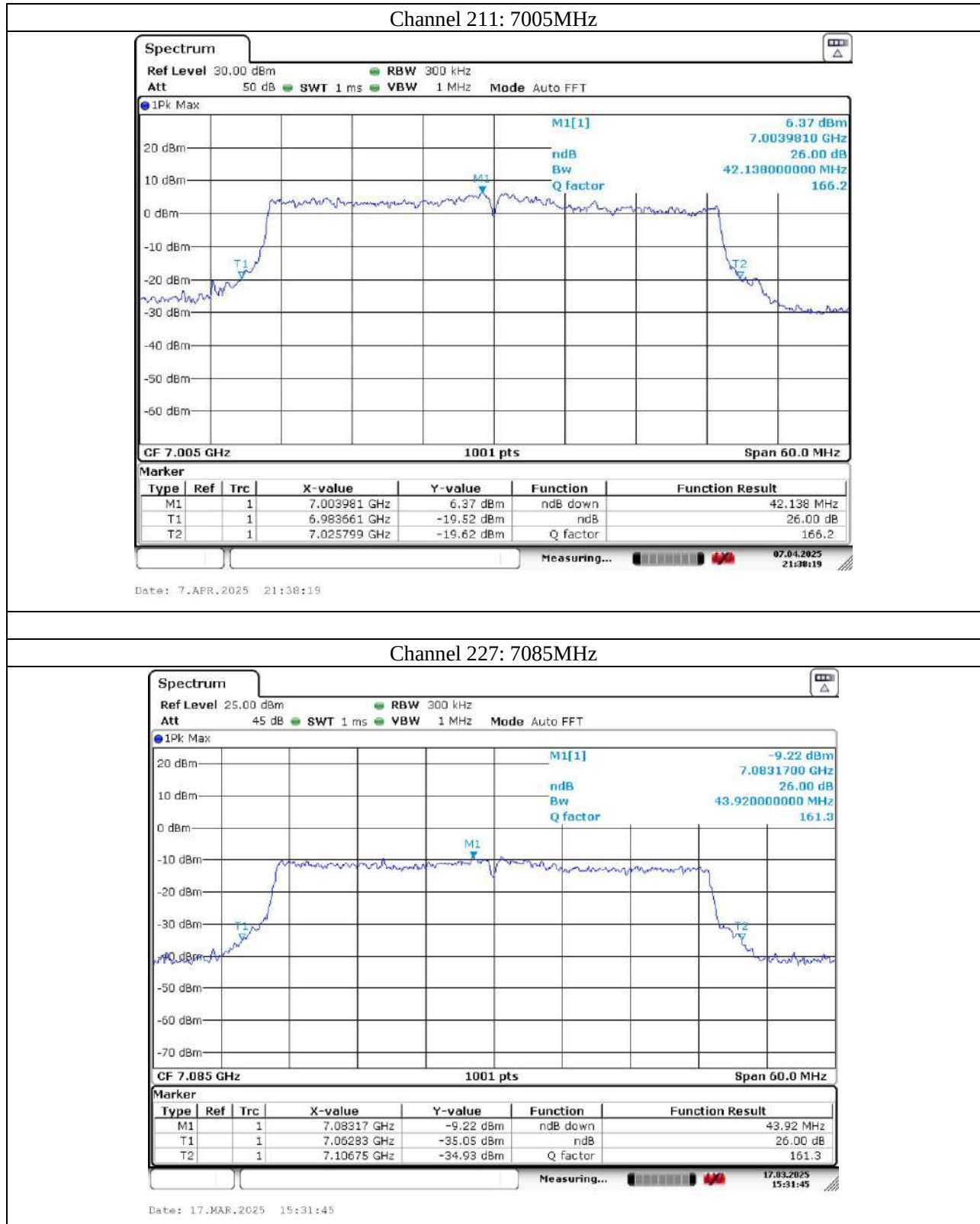




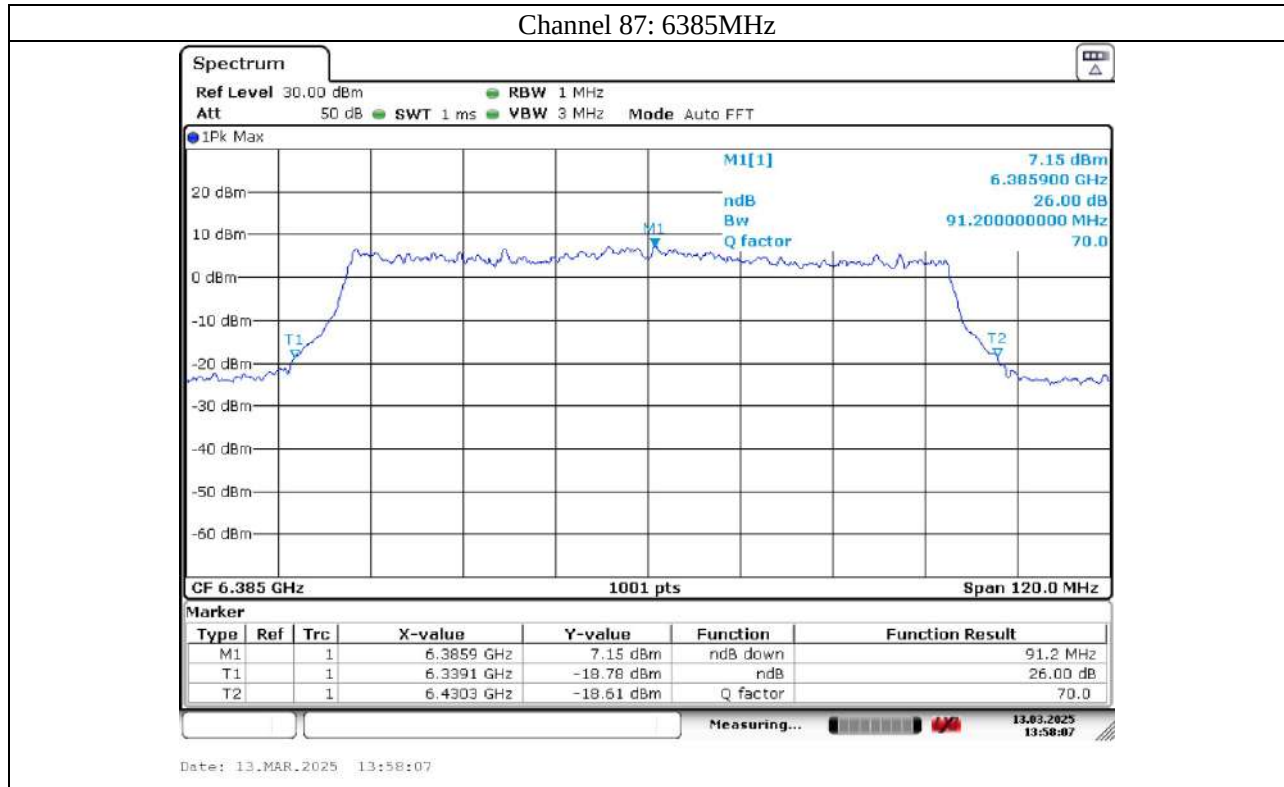




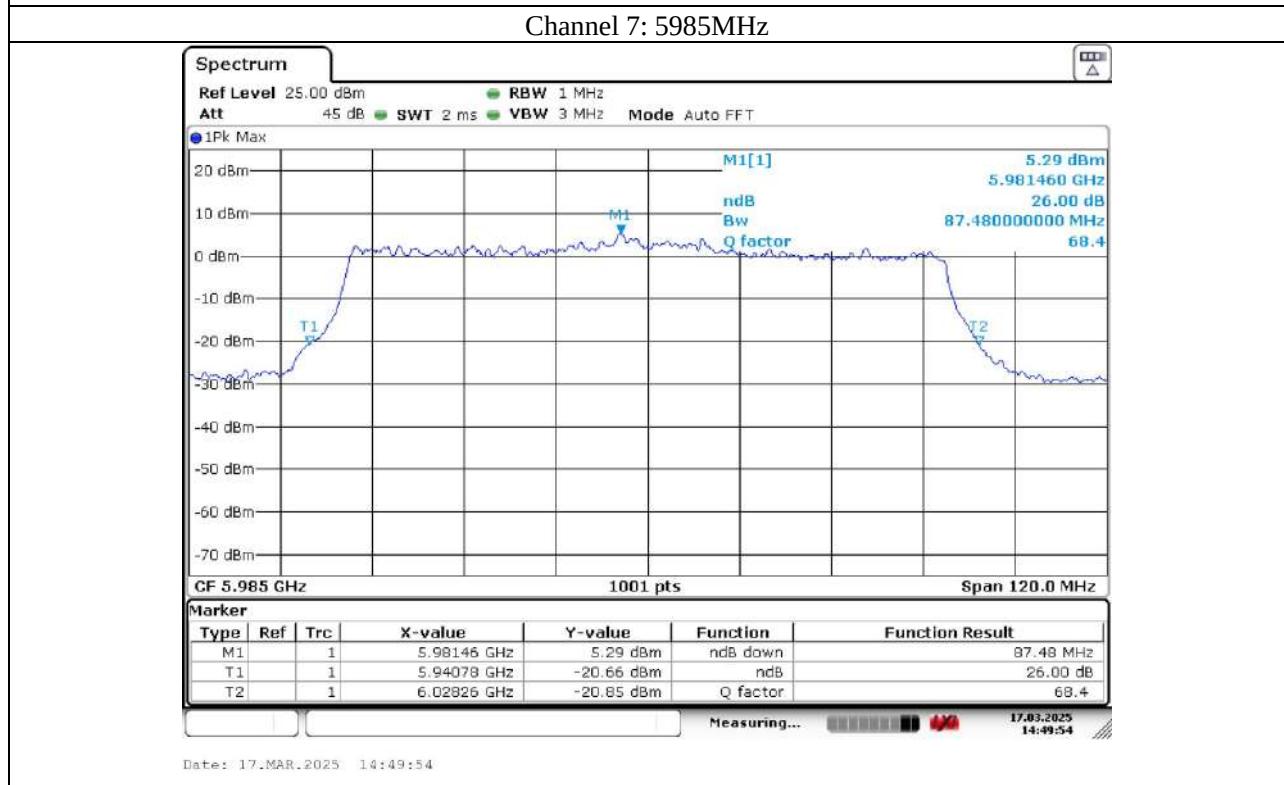




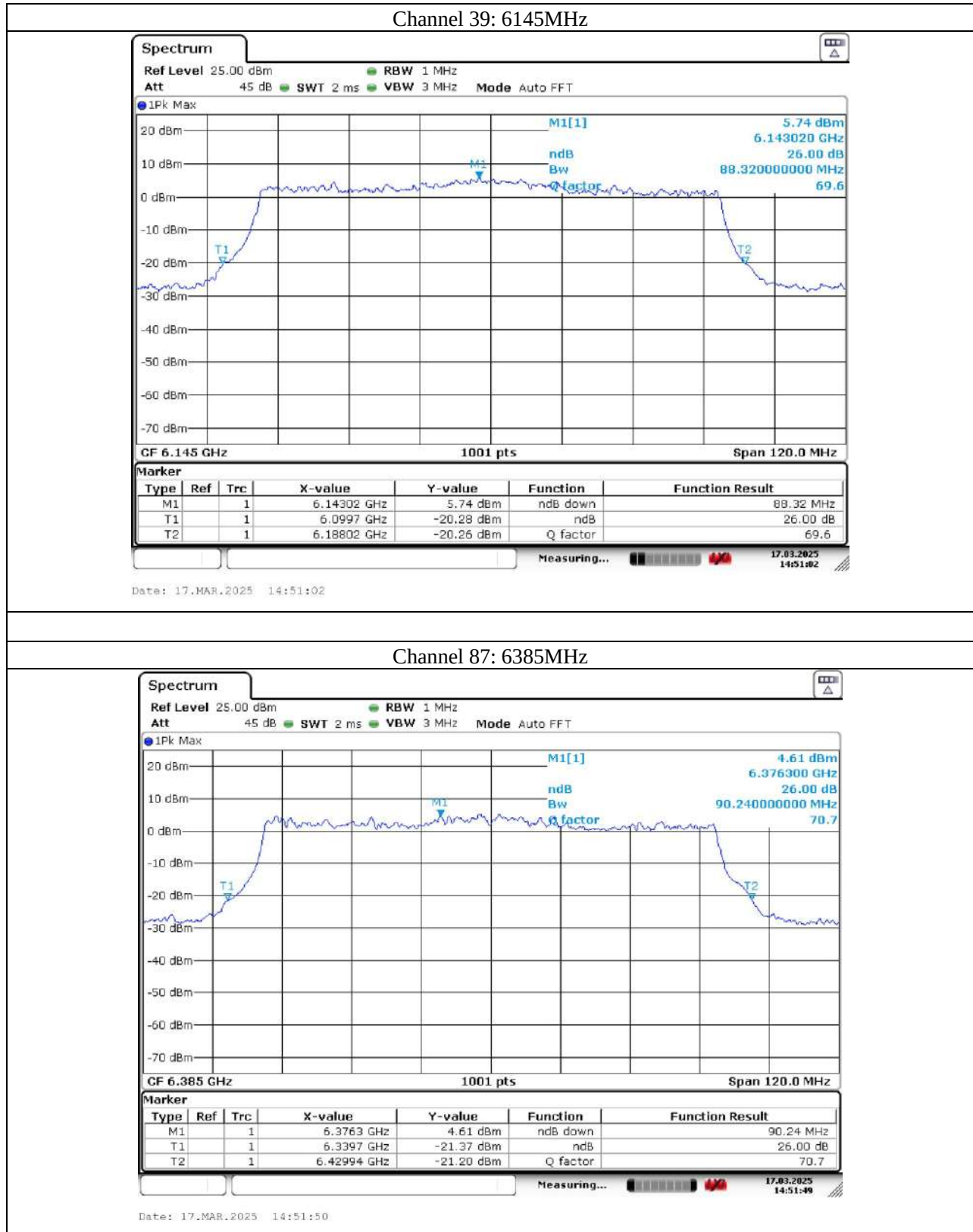


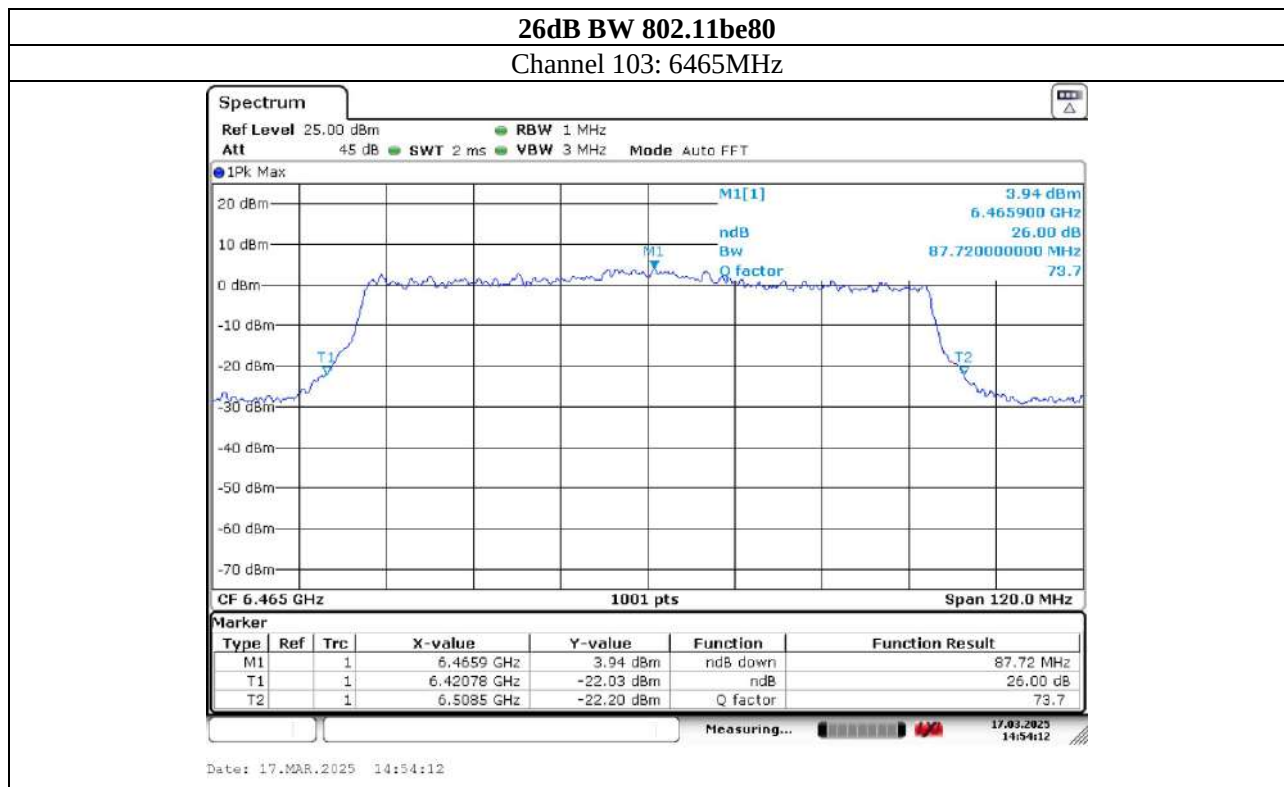
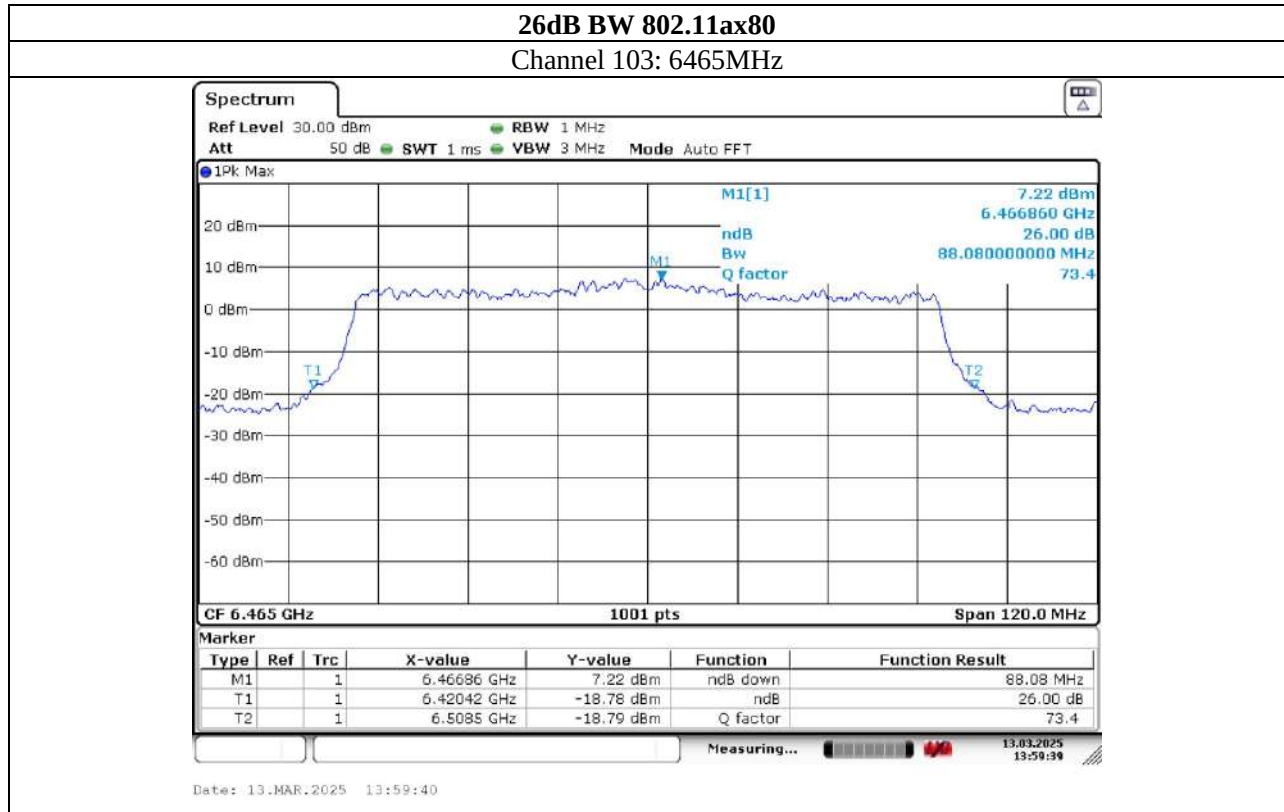


### 26dB BW 802.11be80



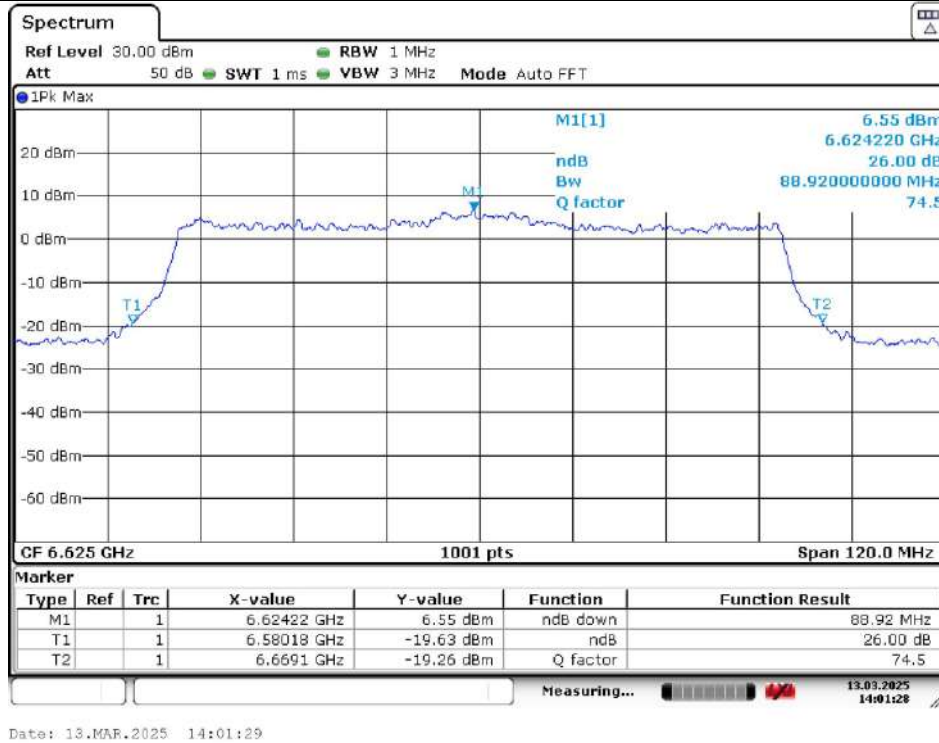




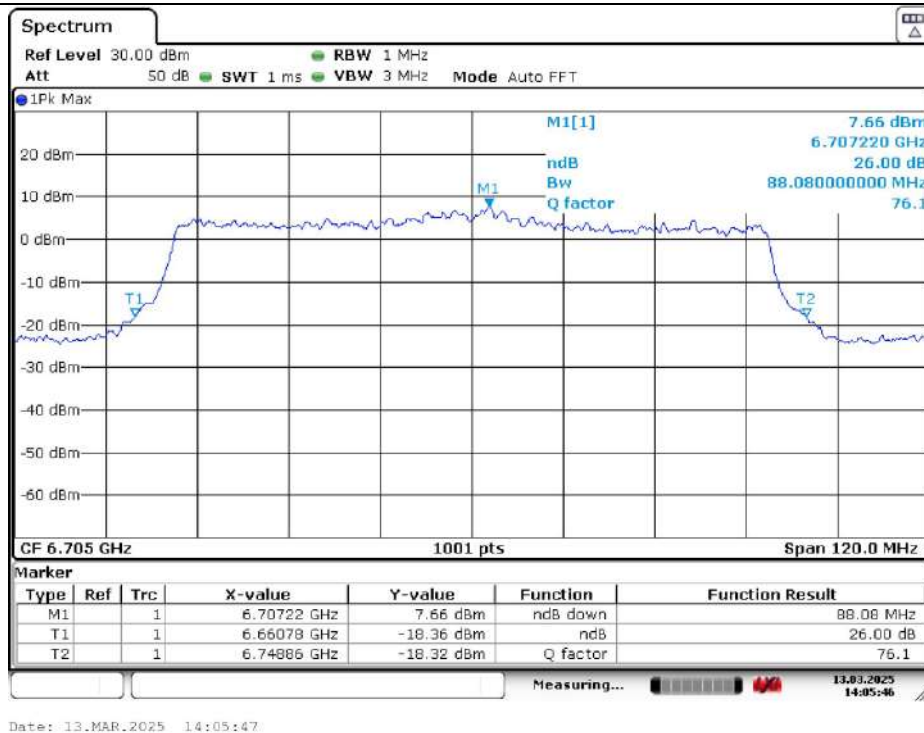


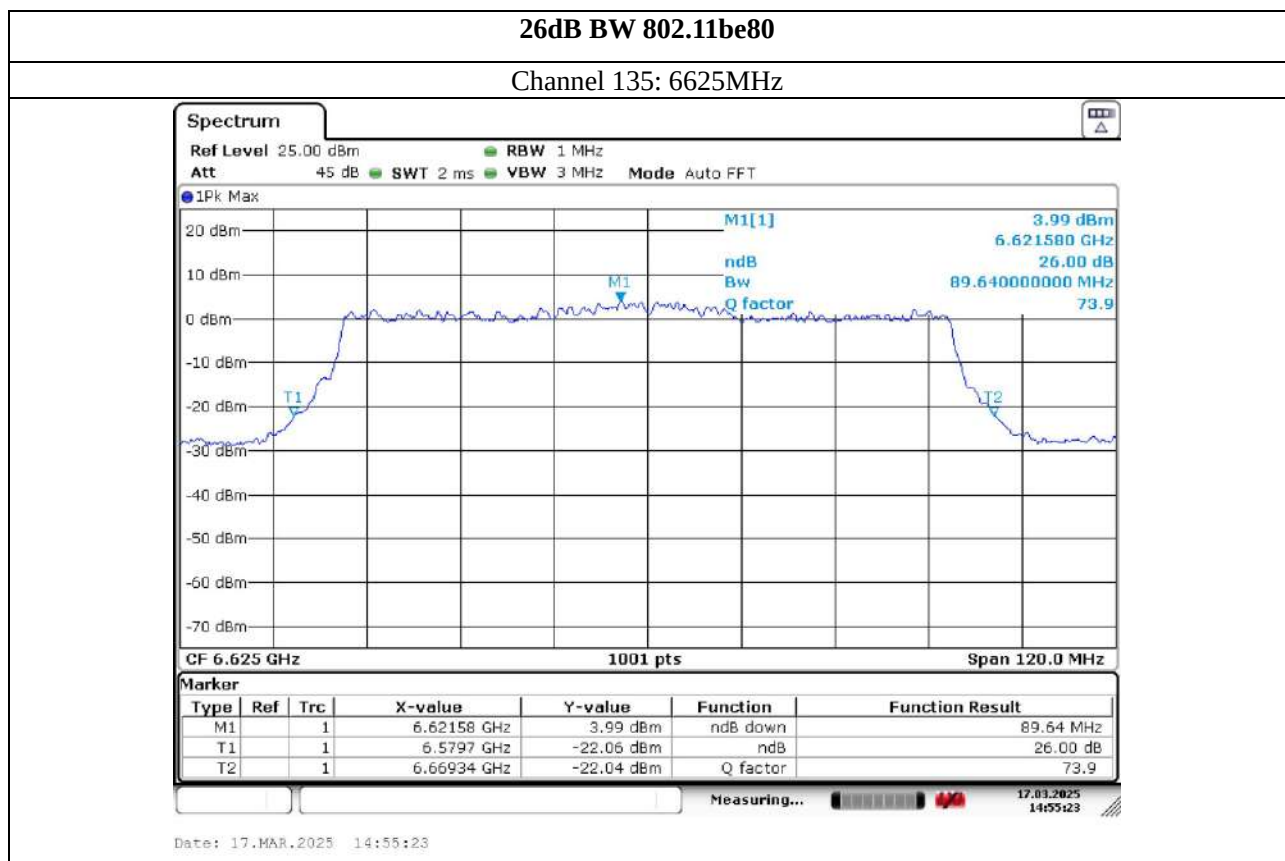
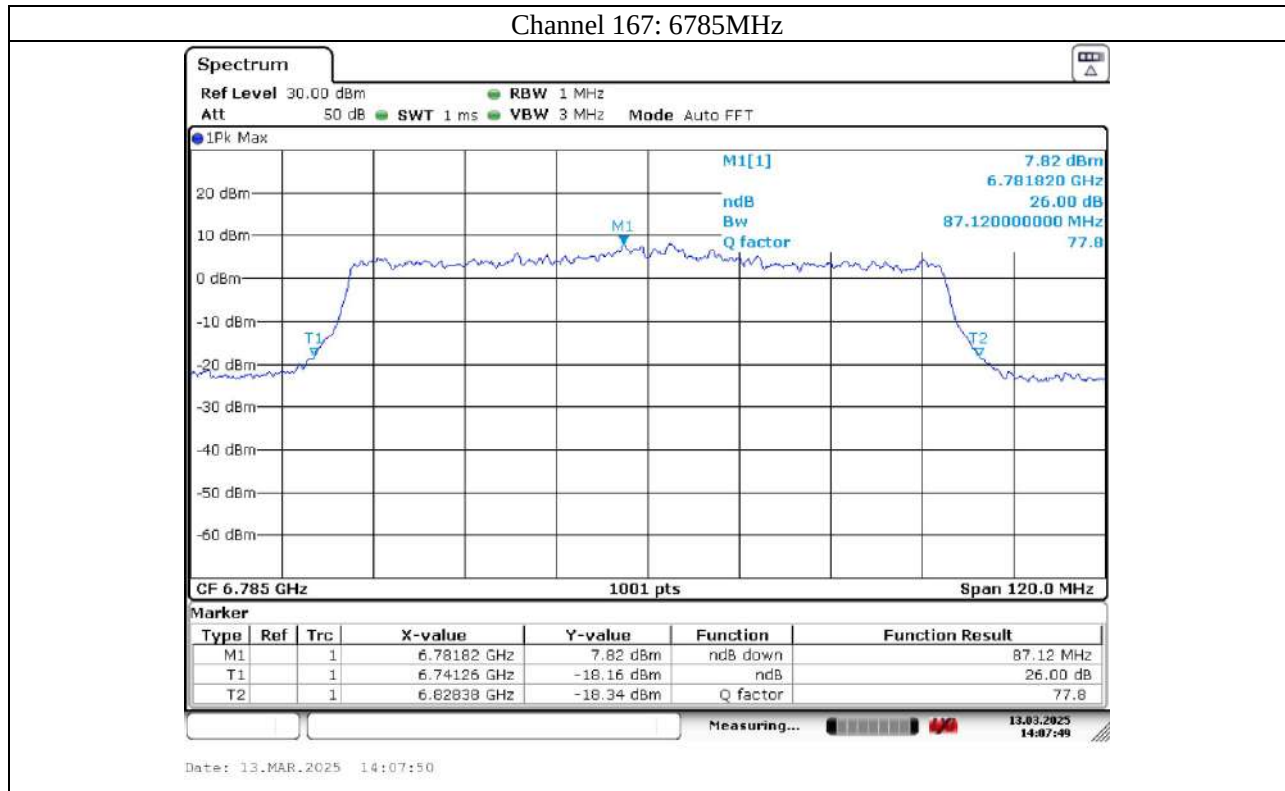
### 26dB BW 802.11ax80

Channel 135: 6625MHz



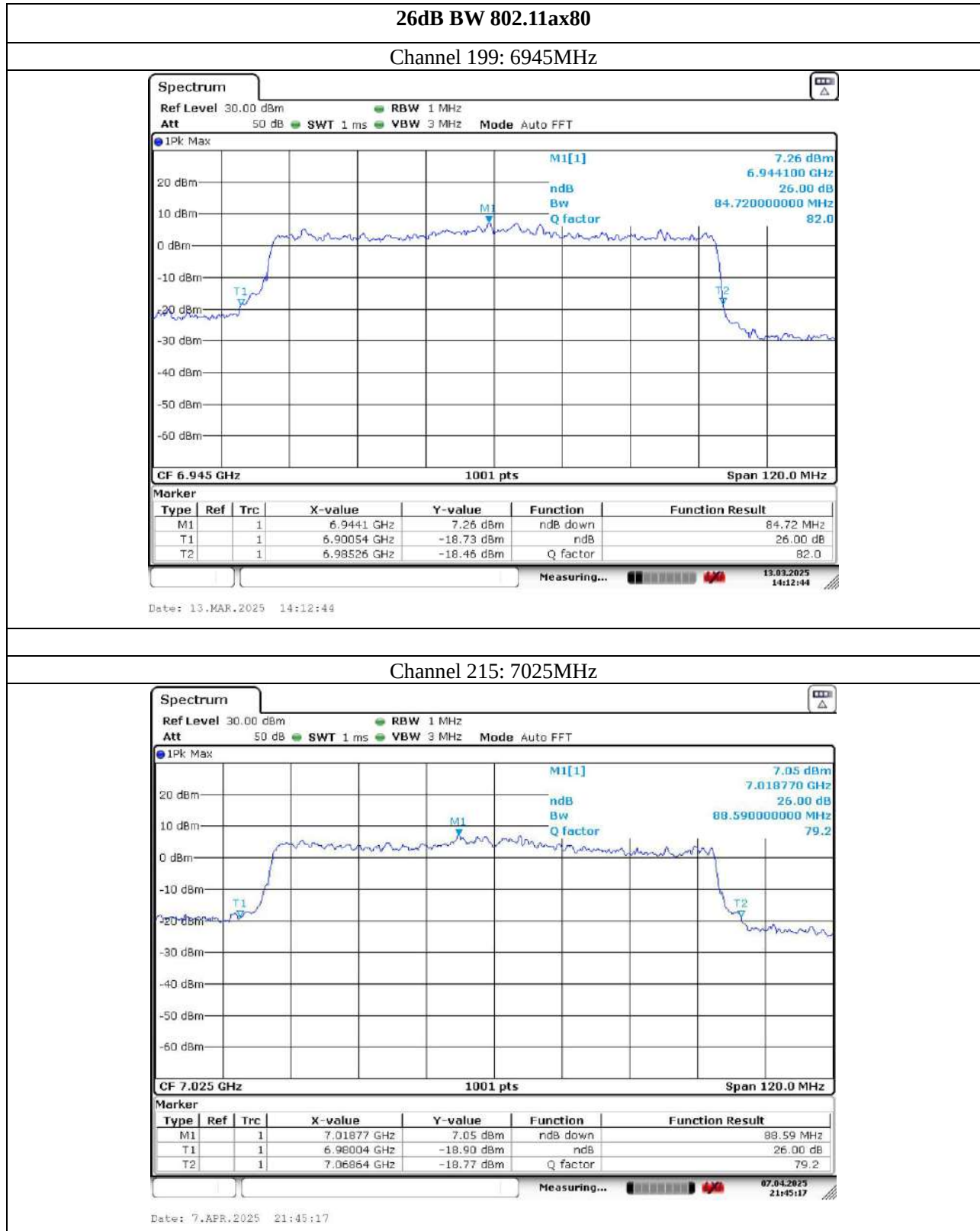
Channel 151: 6705MHz

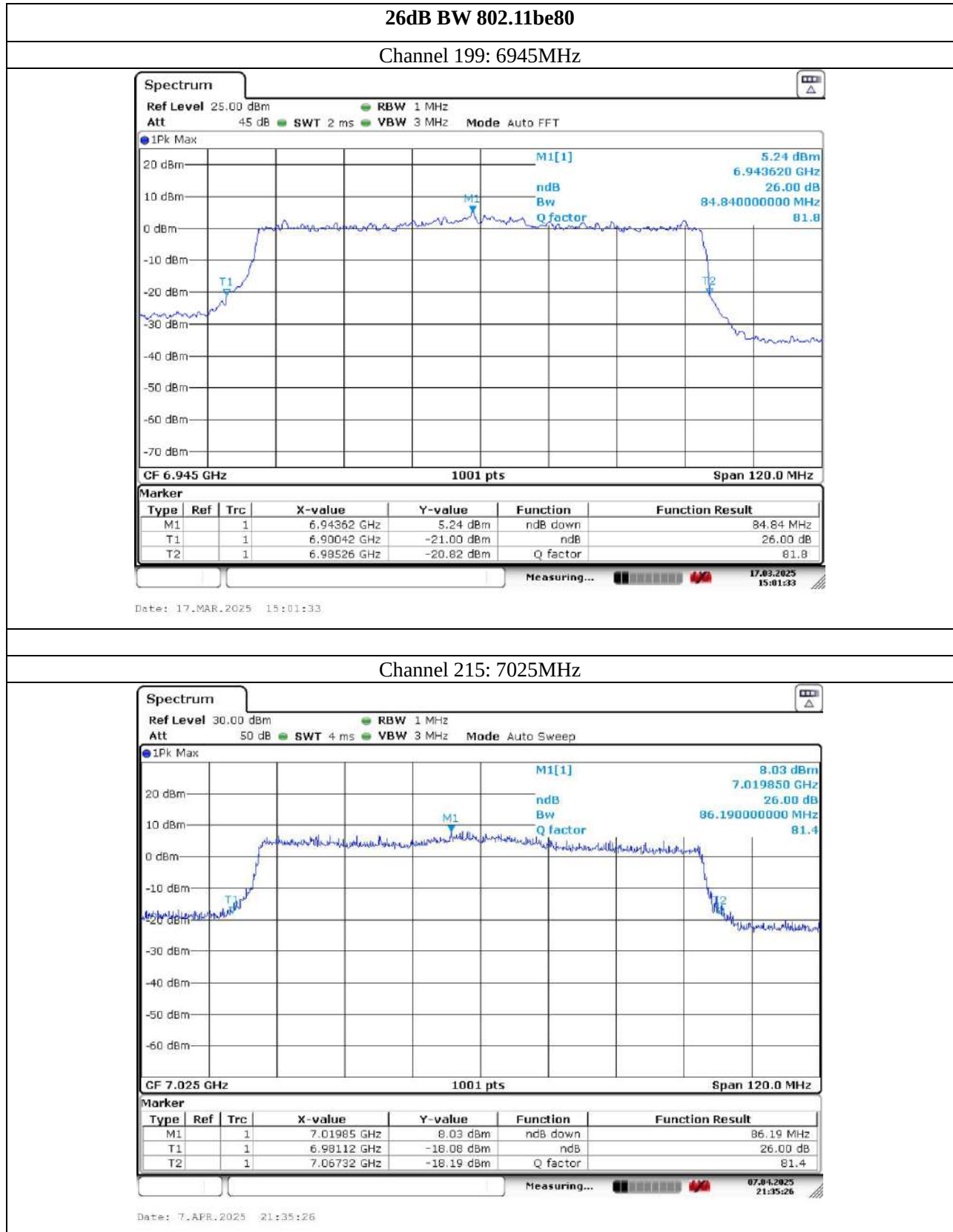


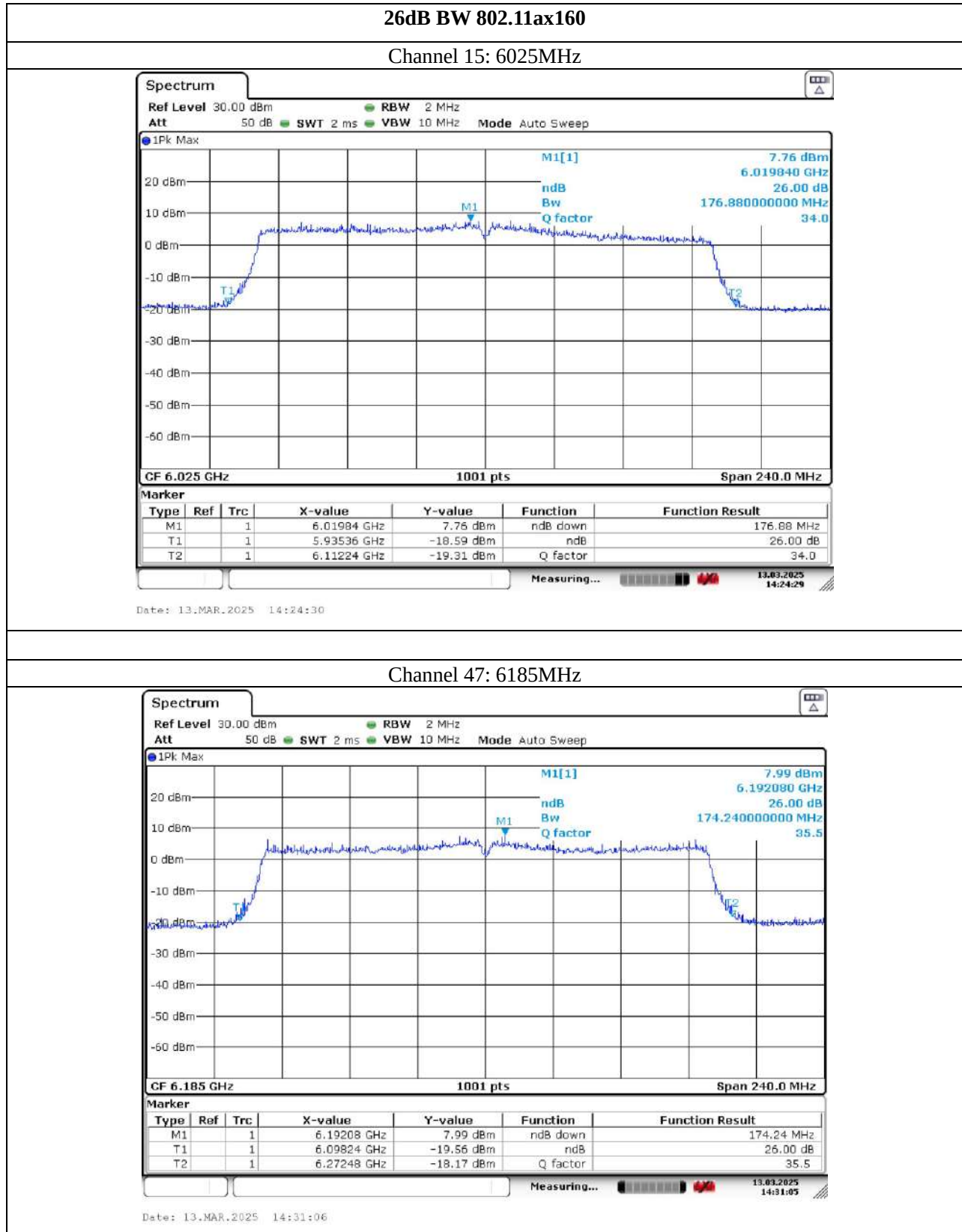


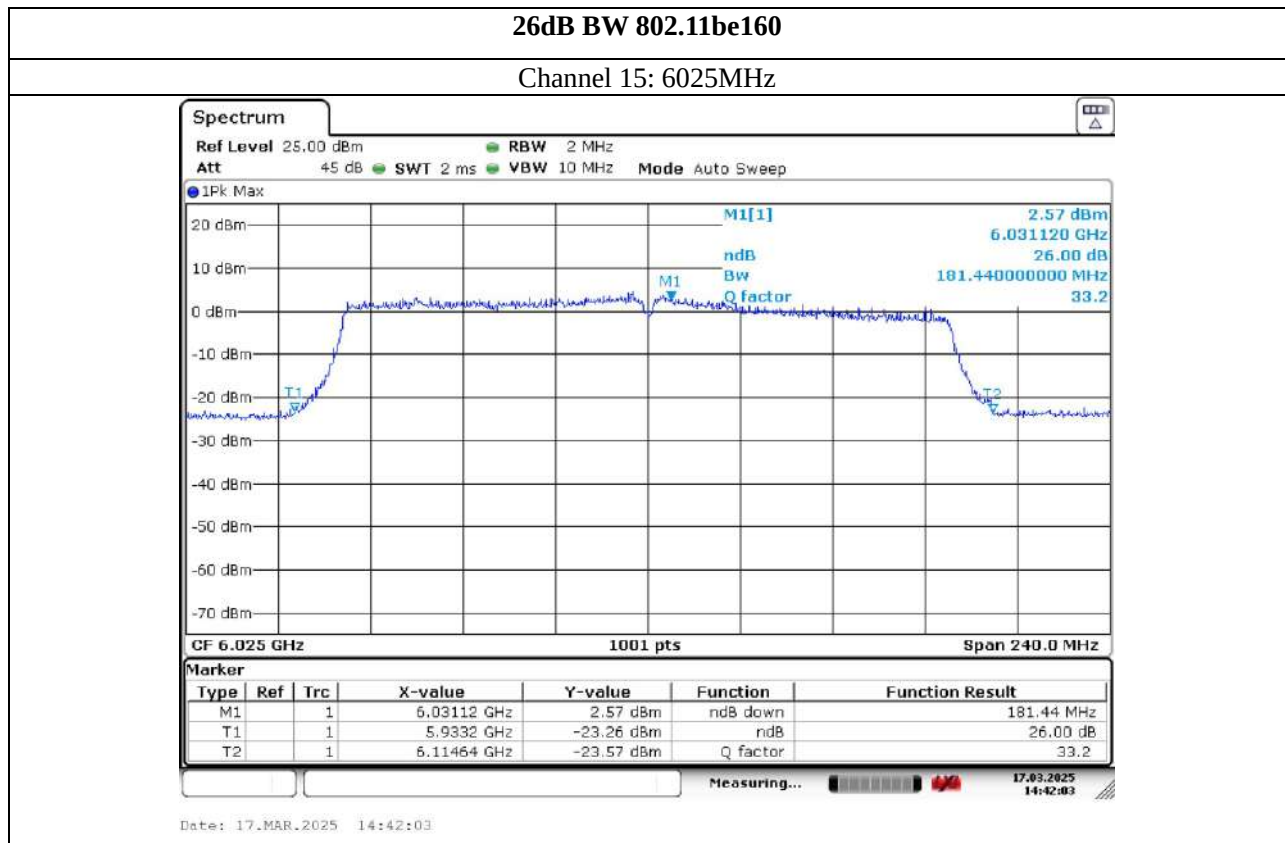
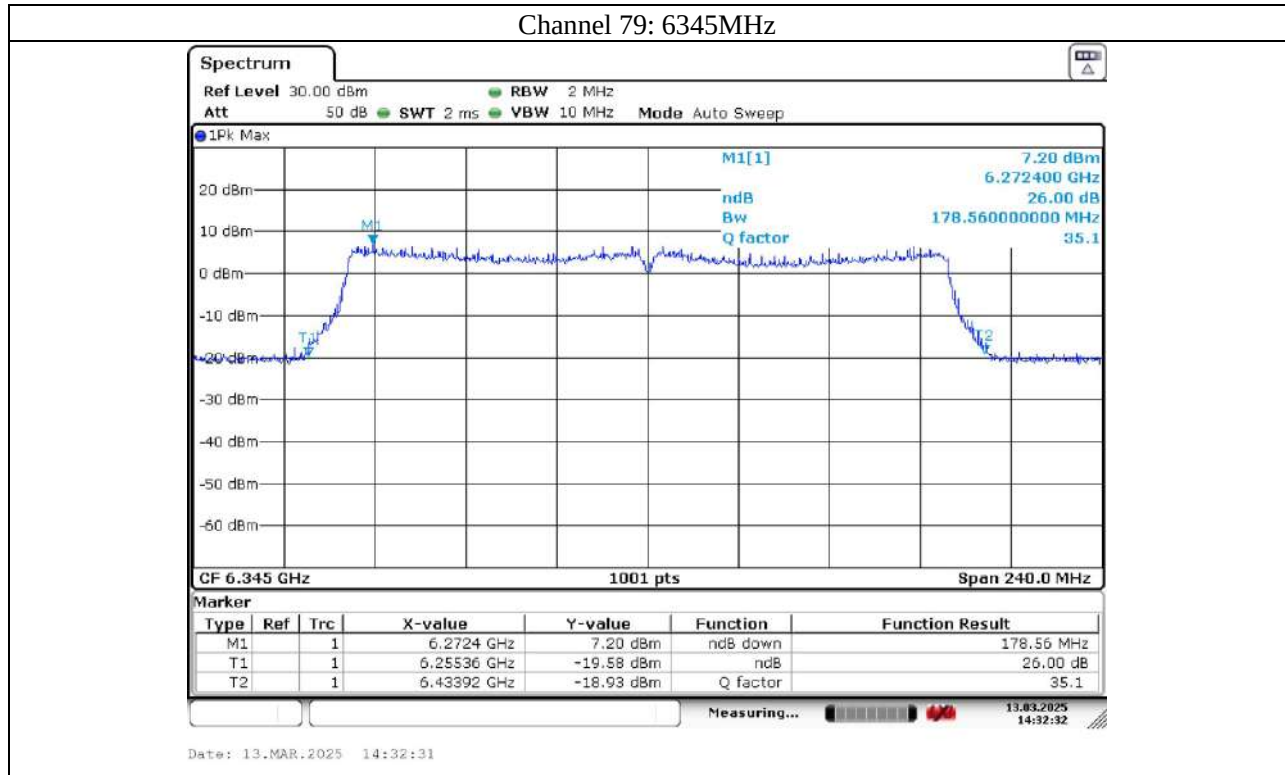


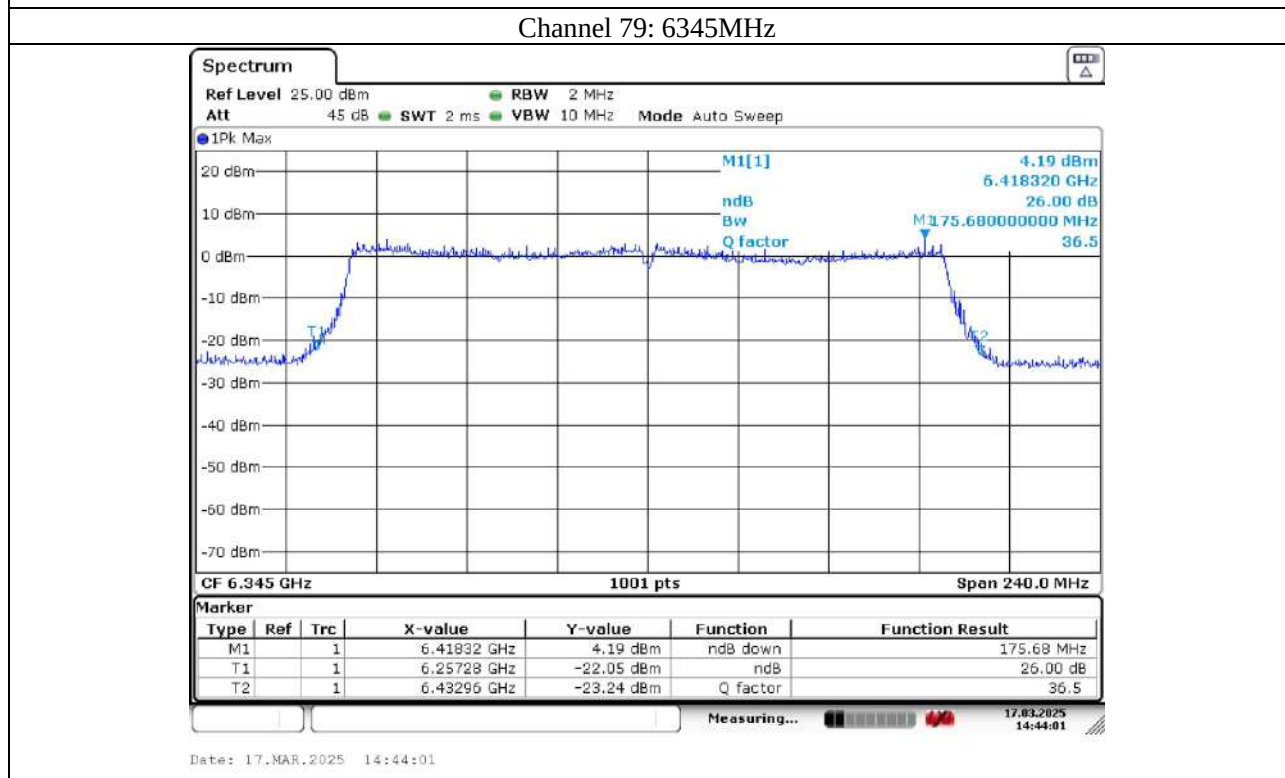
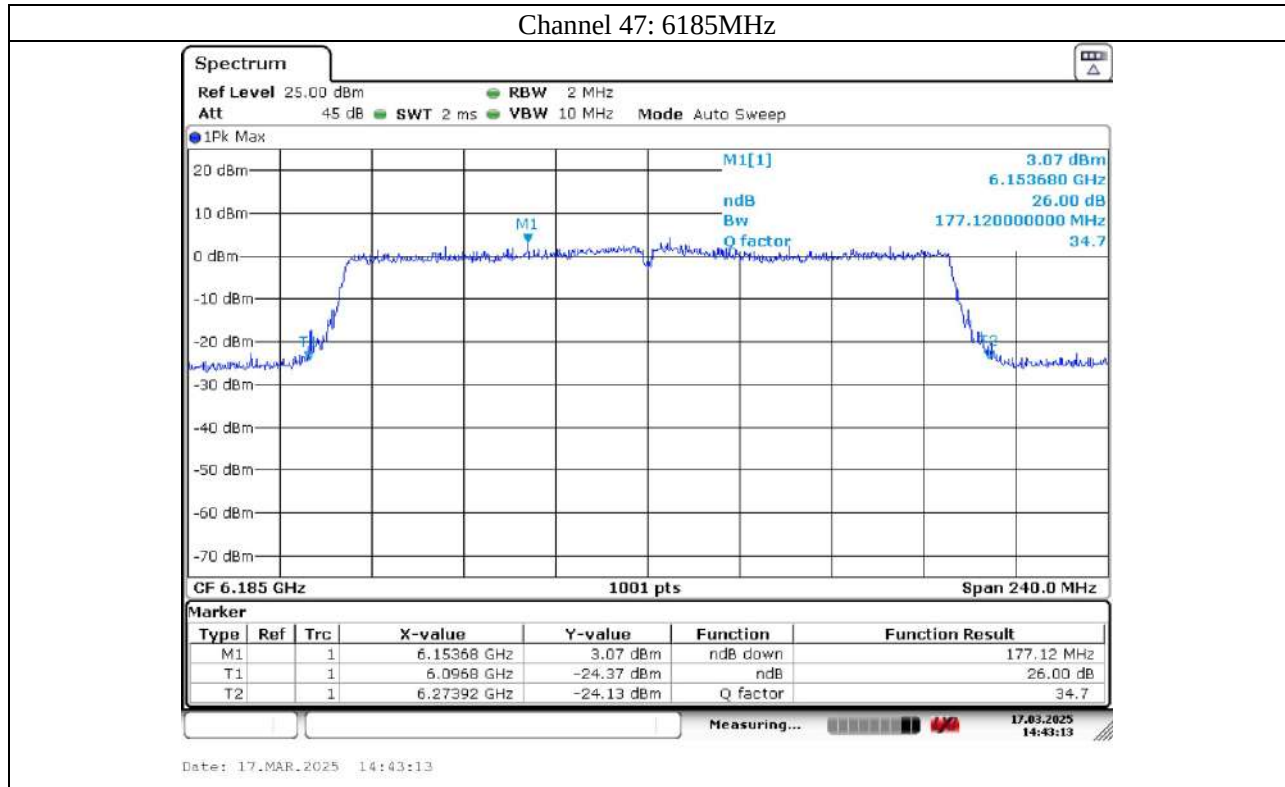








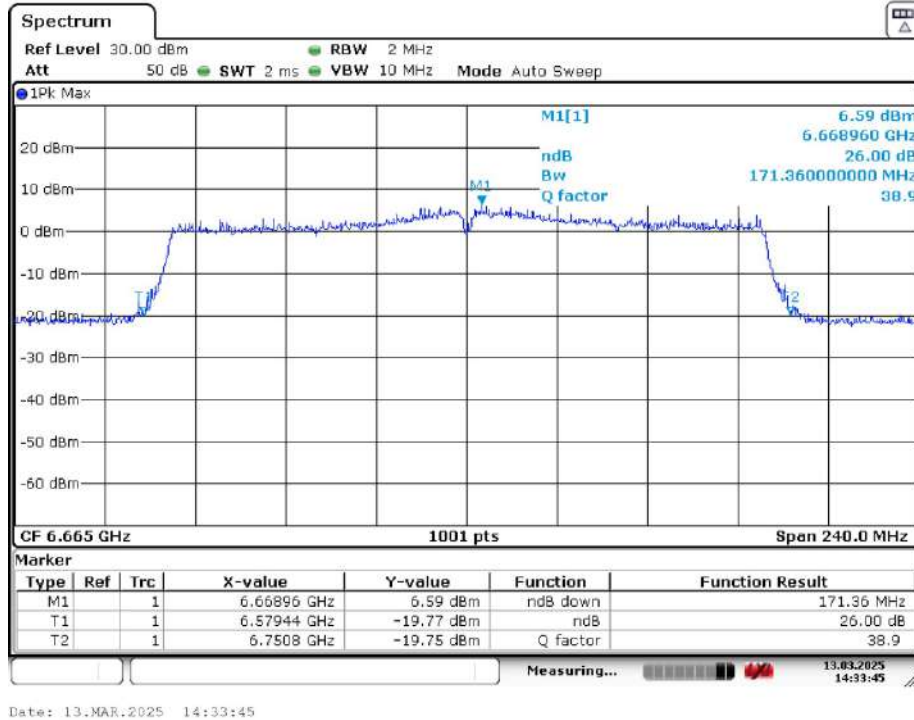






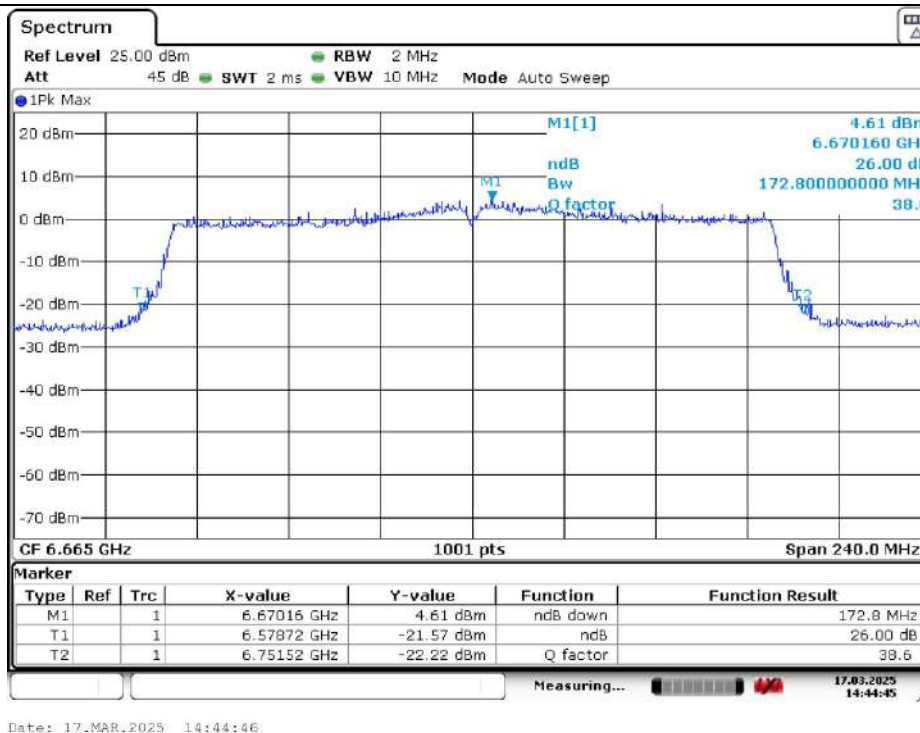
26dB BW 802.11ax160

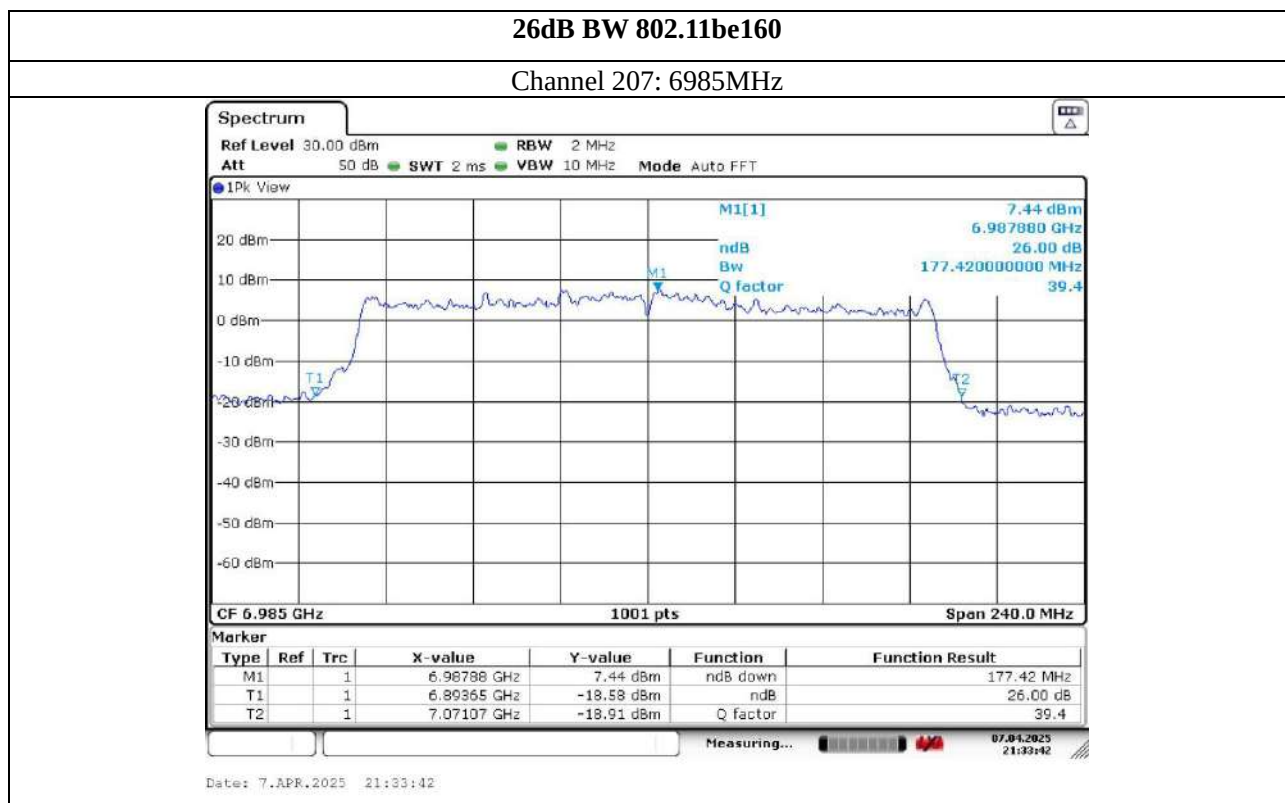
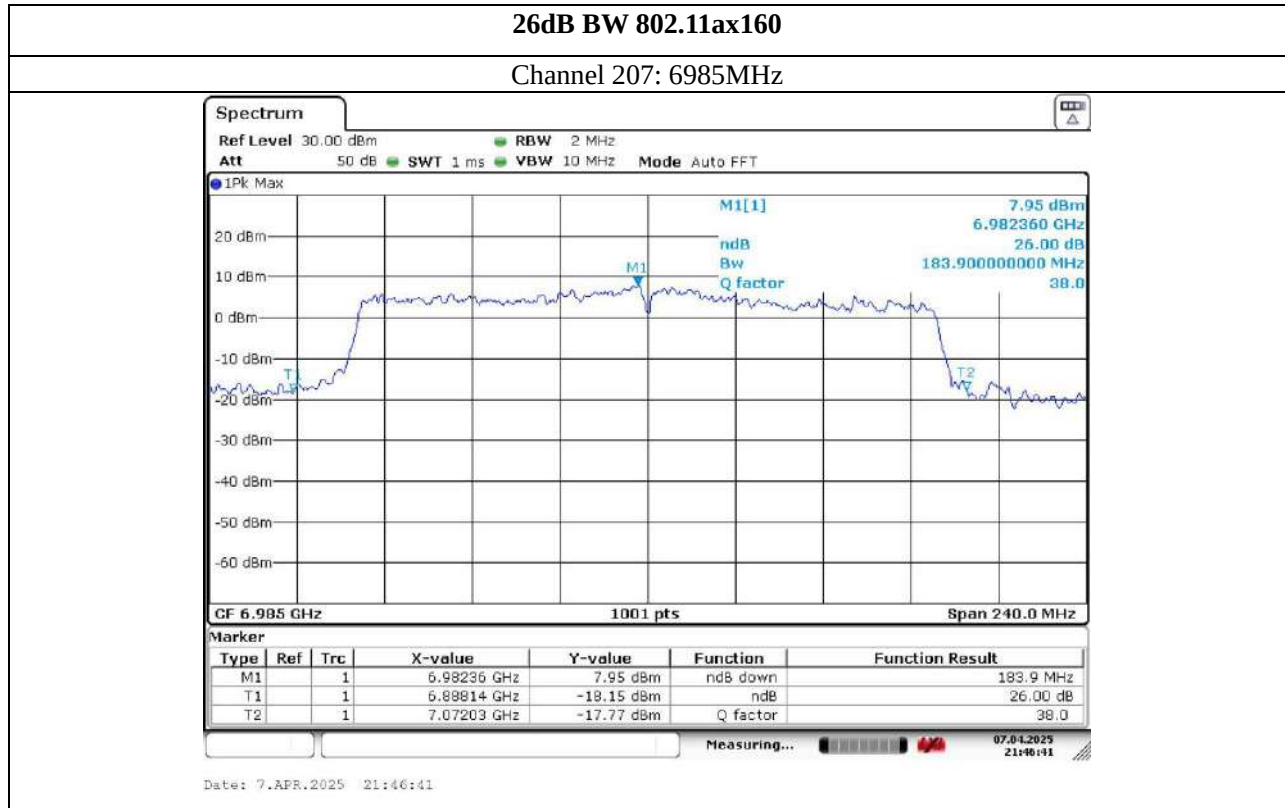
Channel 143: 6665MHz

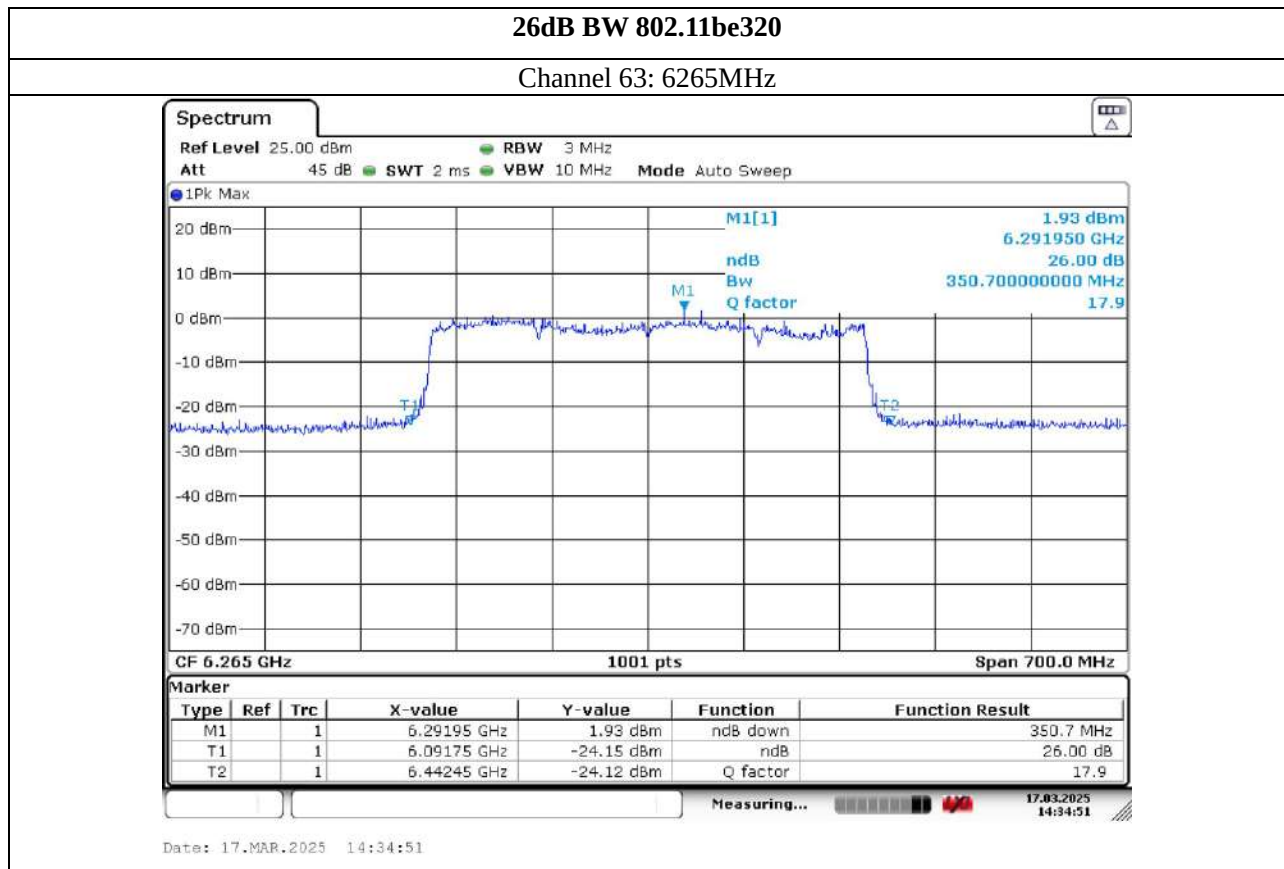


26dB BW 802.11be160

Channel 143: 6665MHz

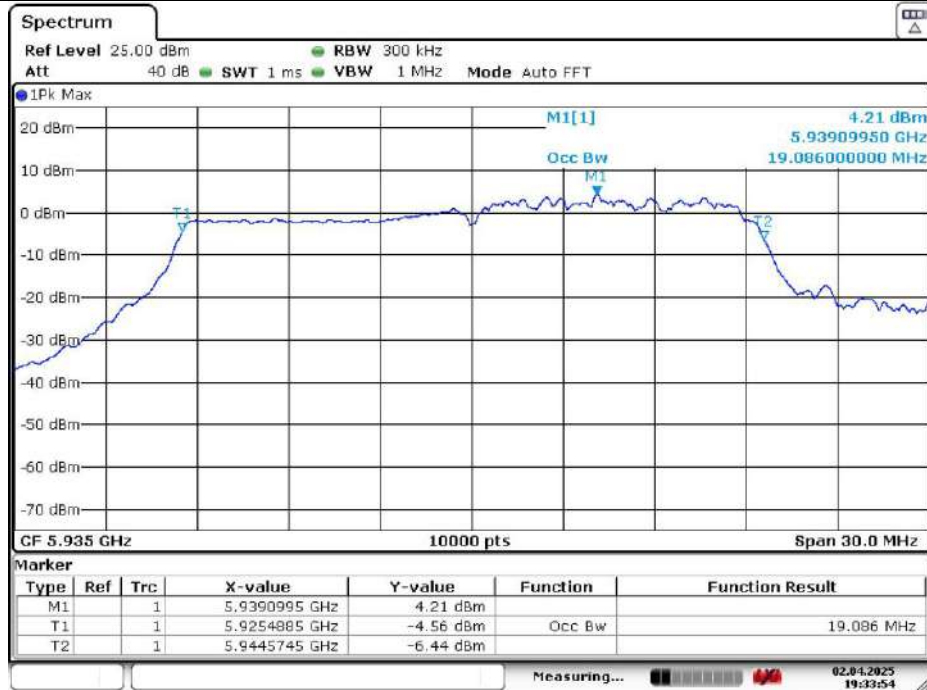






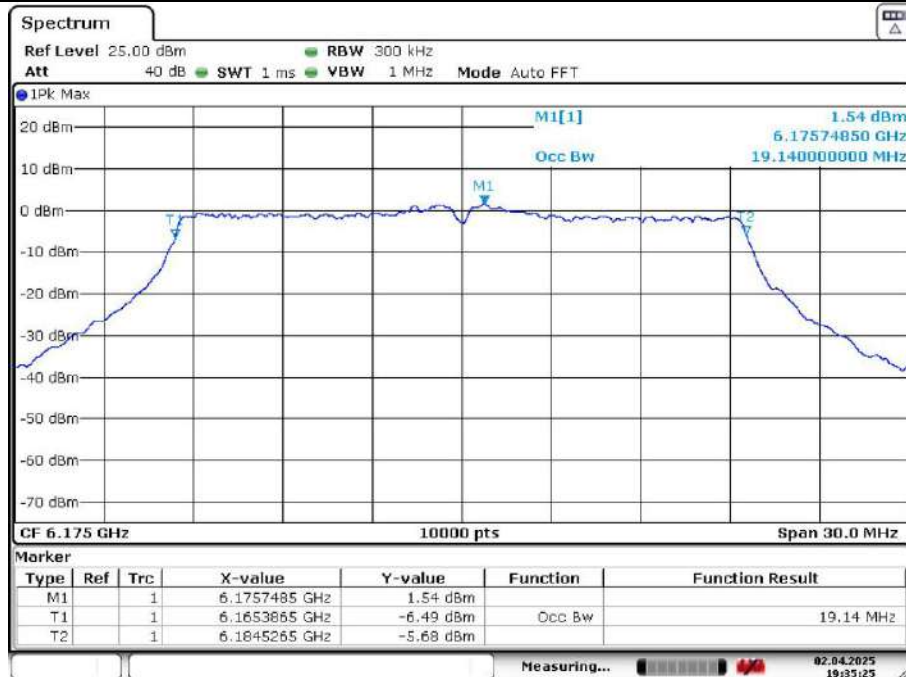
99% BW 802.11ax20

Channel 2: 5935MHz



Date: 2.APR.2025 19:33:54

Channel 45: 6175MHz



Date: 2.APR.2025 19:33:25