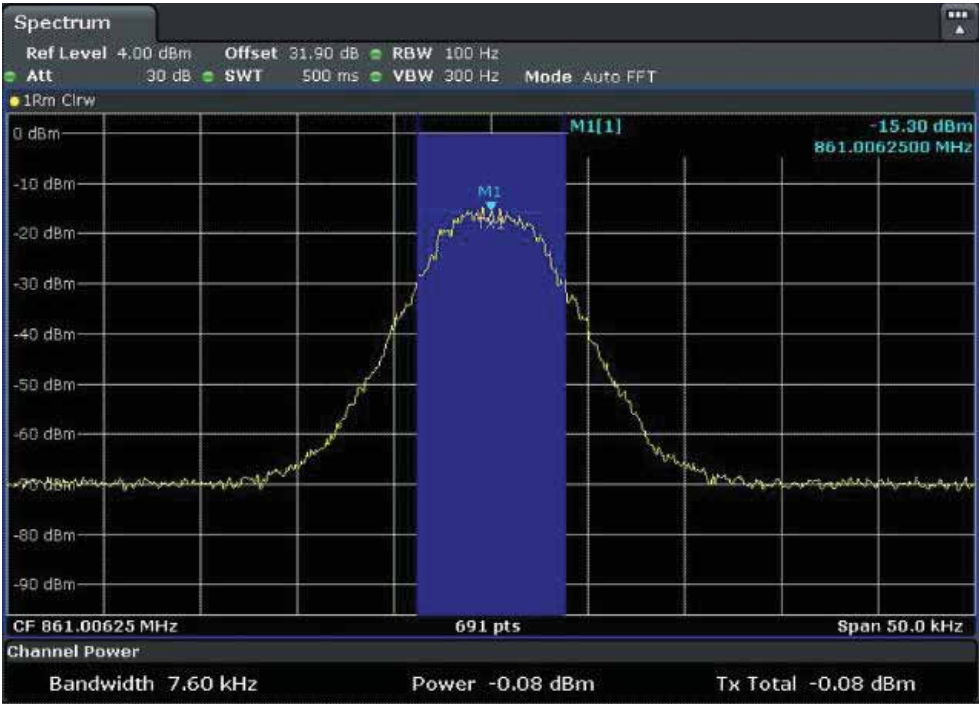
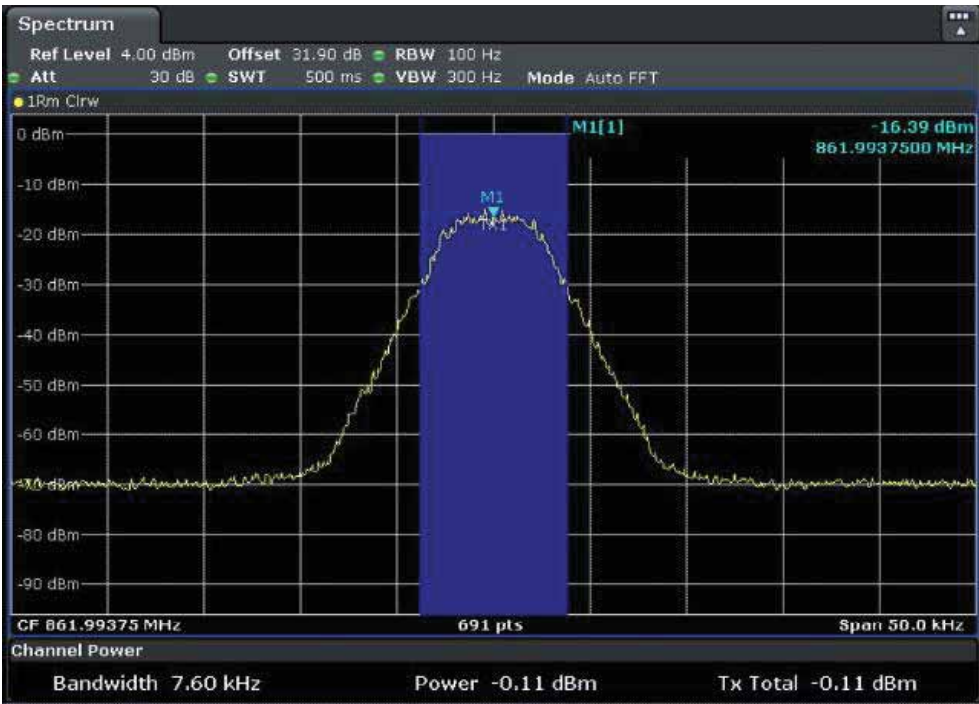


11.2.3.1.3. DMR

11.2.3.1.3.1. Downlink



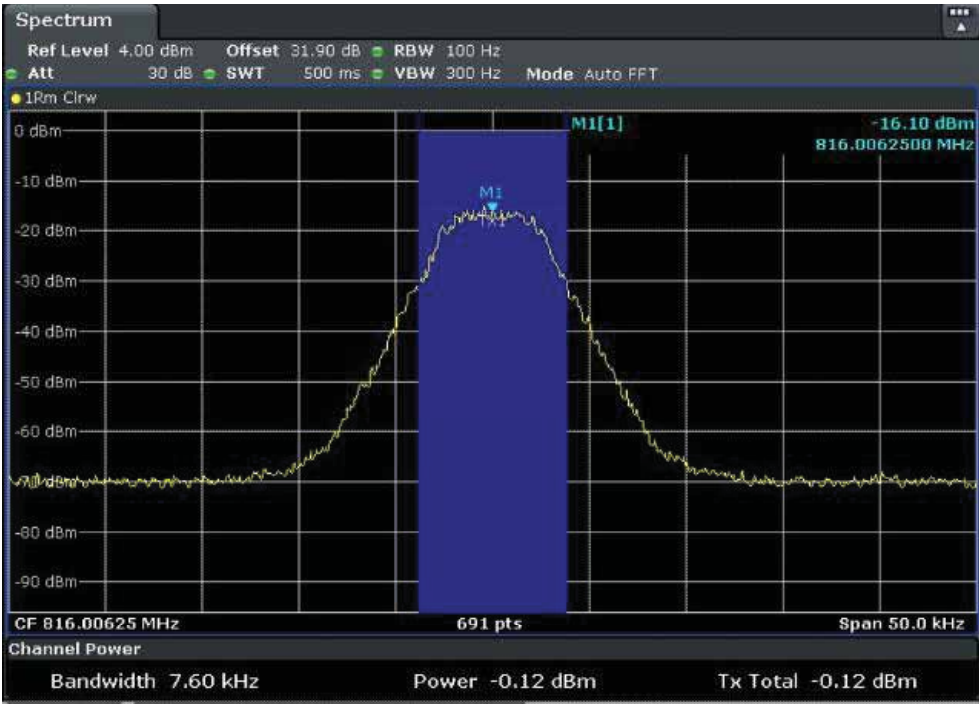
Low Frequency: 861.00625MHz



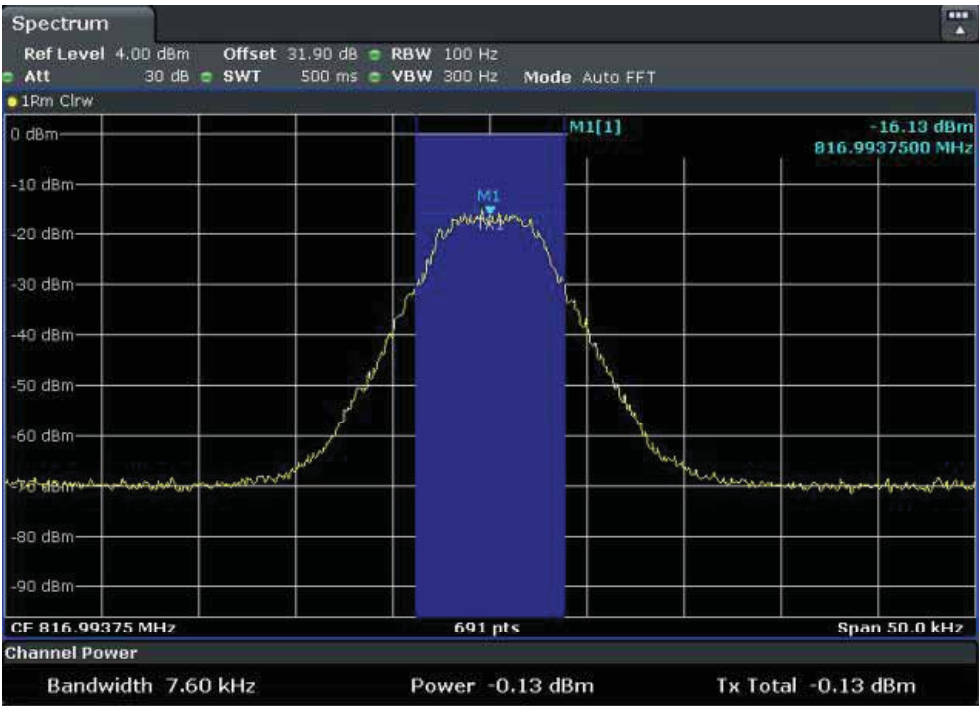
High Frequency: 861.99375MHz

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11.2.3.1.3.2. Uplink



Low Frequency: 816.00625MHz

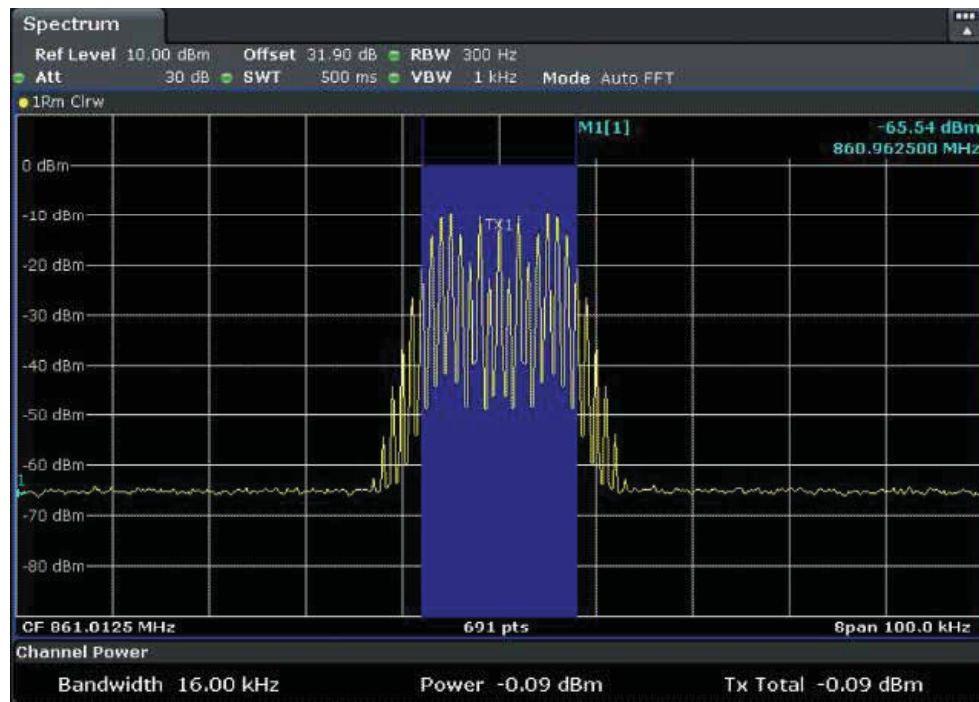


High Frequency: 816.99375MHz

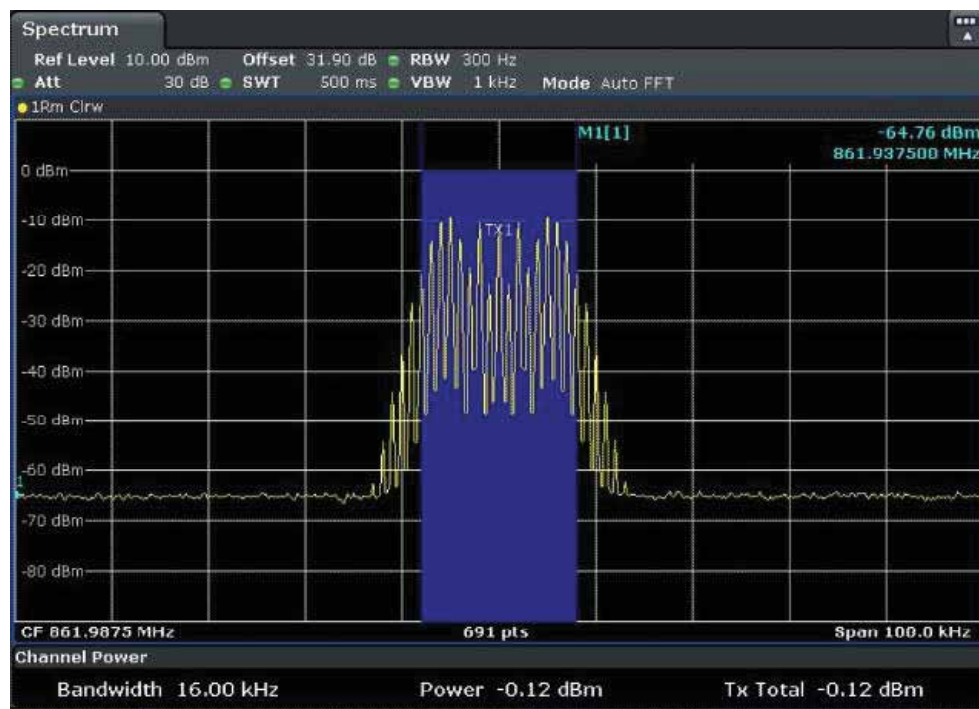
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## 11.2.3.1.4. Analog FM

## 11.2.3.1.4.1. Downlink



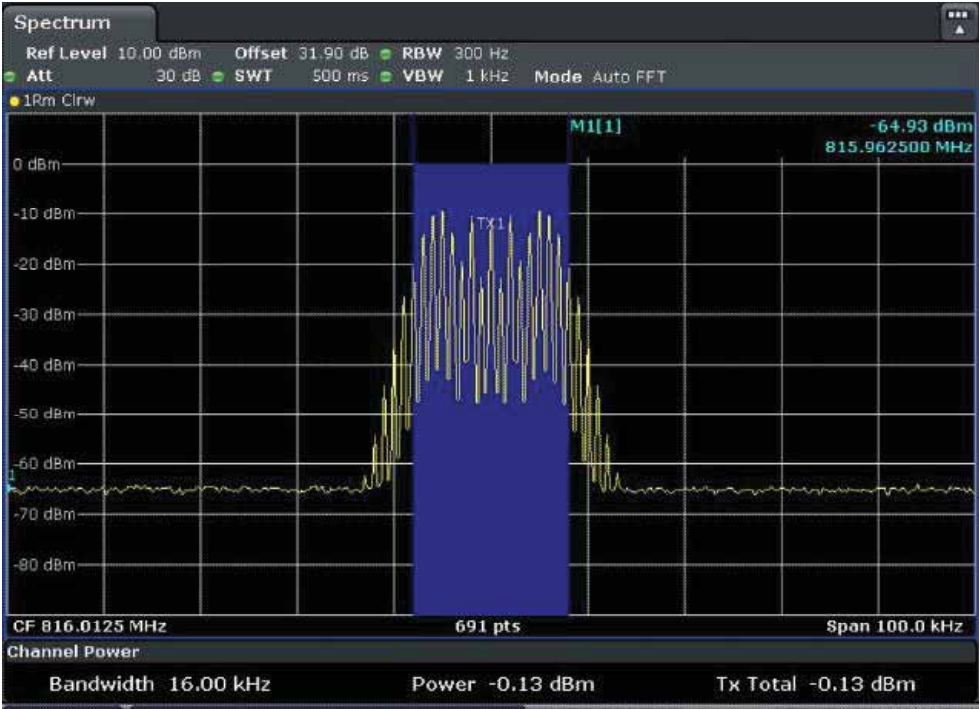
Low Frequency: 861.0125MHz



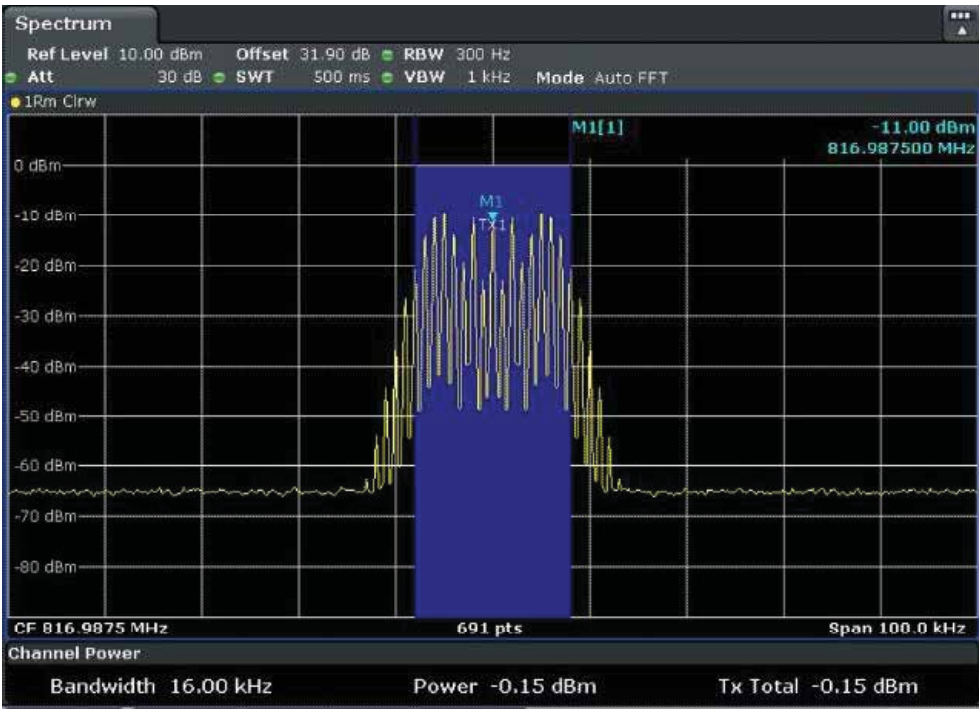
High Frequency: 861.9875MHz

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11.2.3.1.4.2. Uplink



Low Frequency: 816.0125MHz

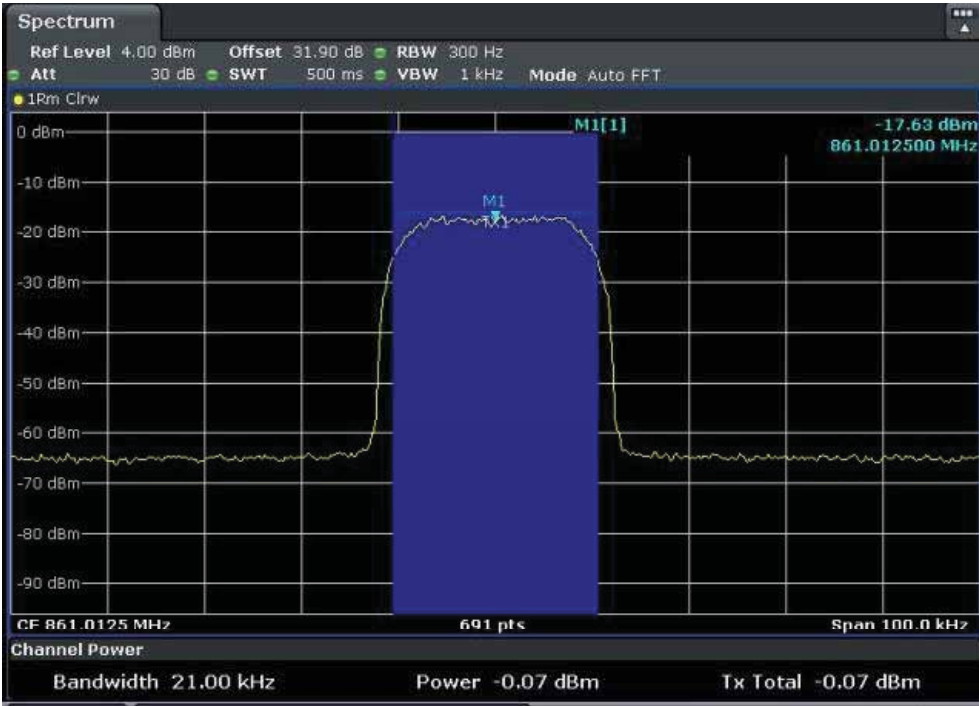


High Frequency: 816.9875MHz

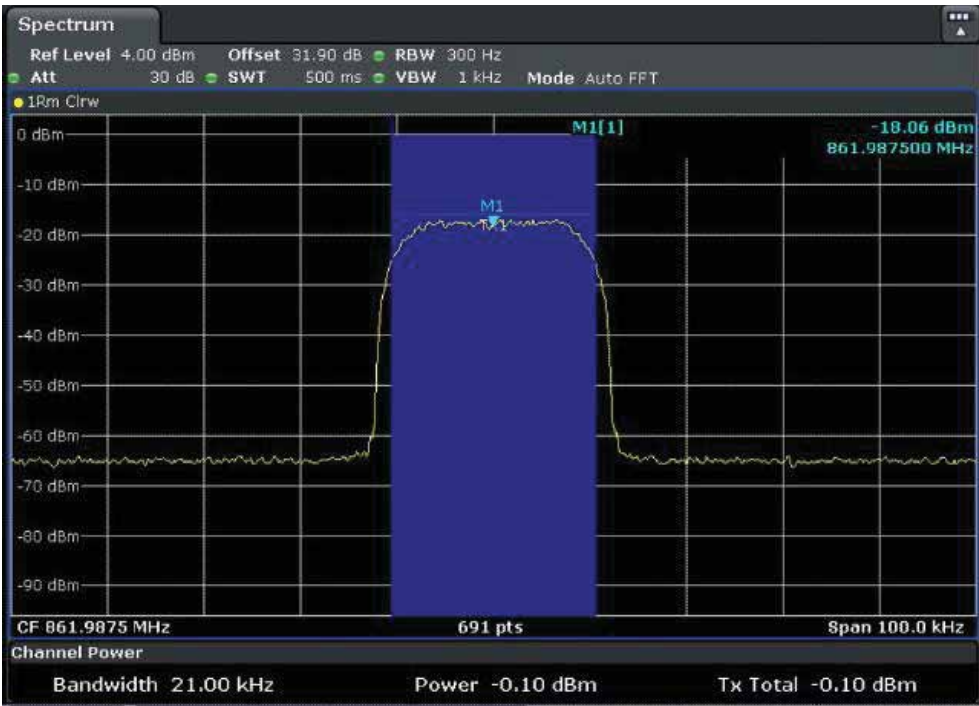
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11.2.3.1.5. Tetra

11.2.3.1.5.1. Downlink



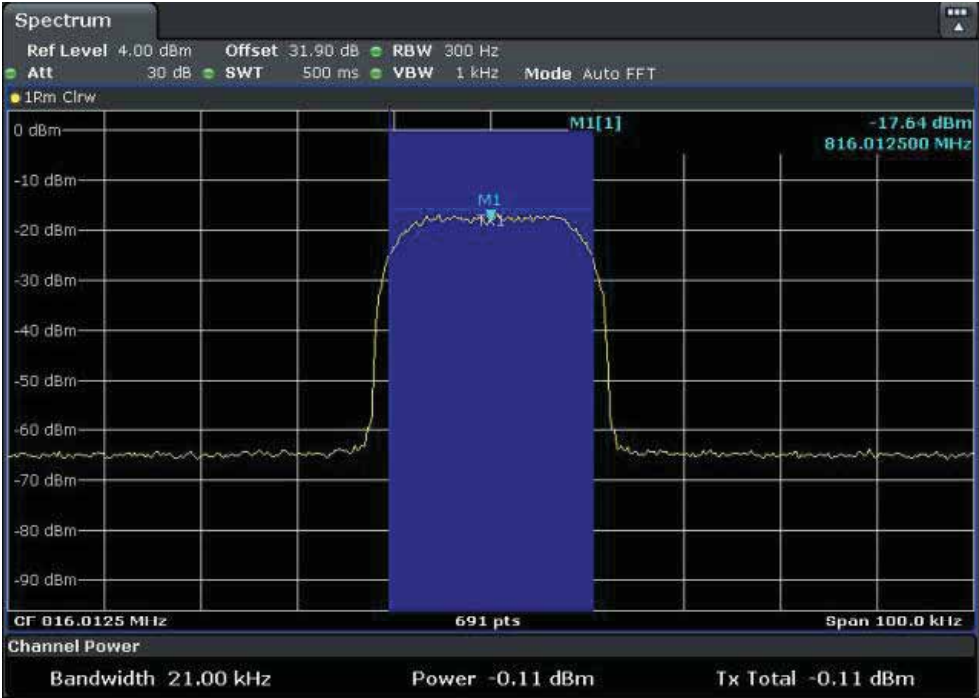
Low Frequency: 861.0125MHz



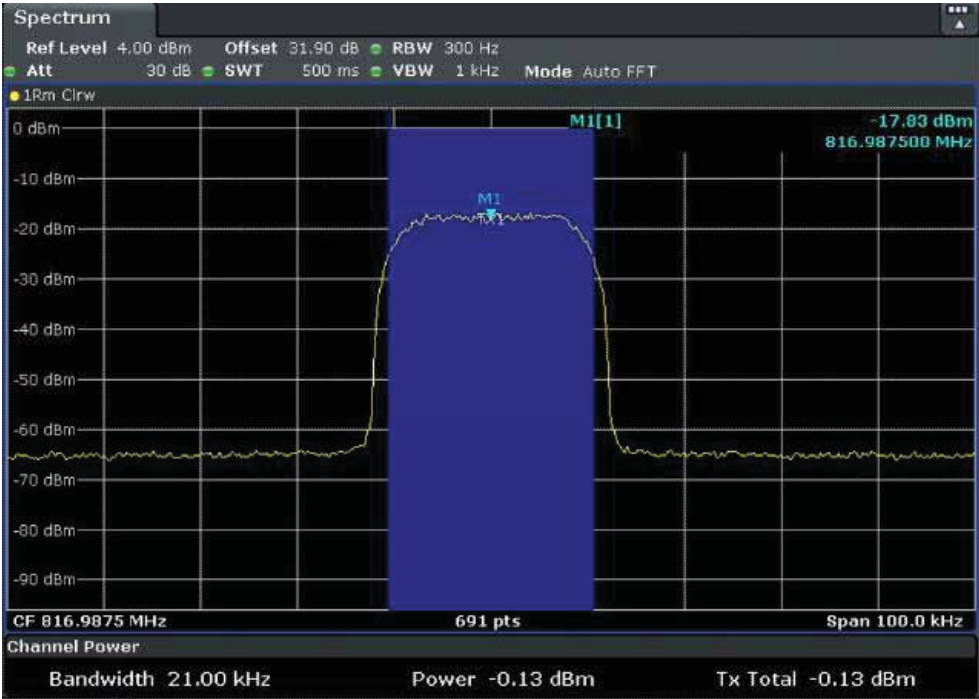
High Frequency: 861.9875MHz

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11.2.3.1.5.2. Uplink



Low Frequency: 816.0125MHz



High Frequency: 816.9875MHz

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### 11.3. AGC Threshold

Requirements: KDB 935210 D05 clause 4.2

Test Method: KDB 935210 D05 clause 3.2

#### 11.3.1. Requirements

Testing at and above the AGC threshold will be required.<sup>6</sup> The AGC threshold shall be determined by applying the procedure of 3.2, but with the signal generator configured to produce a test signal defined in Table 1, a CW input signal, or a digitally modulated signal, consistent with the discussion about signal types in 4.1.

#### 11.3.2. Test configuration

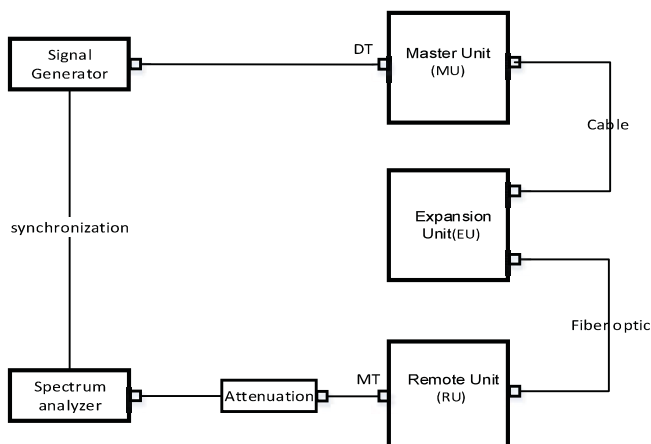


Figure 11.3-1 Downlink connection diagram

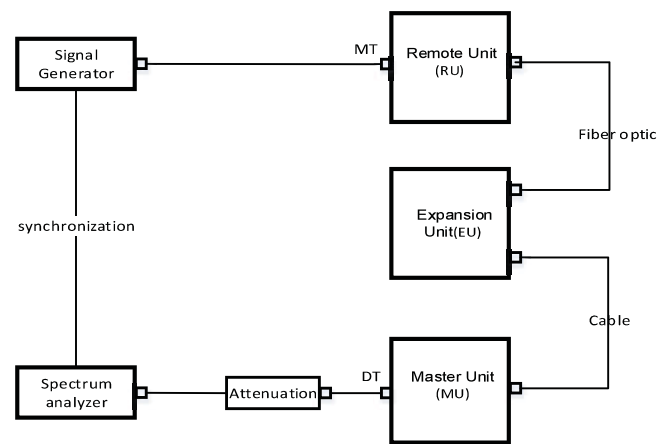


Figure 11.3-2 Uplink connection diagram

#### 11.3.3. Test procedures

The AGC threshold is to be determined as follows.<sup>3</sup>

In the case of fiber-optic distribution systems, the RF input port of the equipment under test (EUT) refers to the RF input of the supporting equipment RF to optical converter; see also descriptions and diagrams for typical DAS booster systems in KDB Publication 935210 D02 [R7].

Devices intended to be directly connected to an RF source (donor port) only need to be evaluated for any over-the-air transmit paths.

- Connect a signal generator to the input of the EUT.
- Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as necessary.
- The signal generator should initially be configured to produce either of the required test signals (i.e., broadband or narrowband).
- Set the signal generator frequency to the center frequency of the EUT operating band.
- While monitoring the output power of the EUT, measured using the methods of 3.5.3 or 3.5.4, increase the input level until a 1 dB increase in the input signal power no longer causes a 1 dB increase in the output signal power.
- Record this level as the AGC threshold level.
- Repeat the procedure with the remaining test signal.

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11.3.4. Test results

Test Date (yy-mm-dd): 2024-05-17

Normal condition: Temp:26.4℃, Humid: 44%, Atmospheric Pressure:101kpa

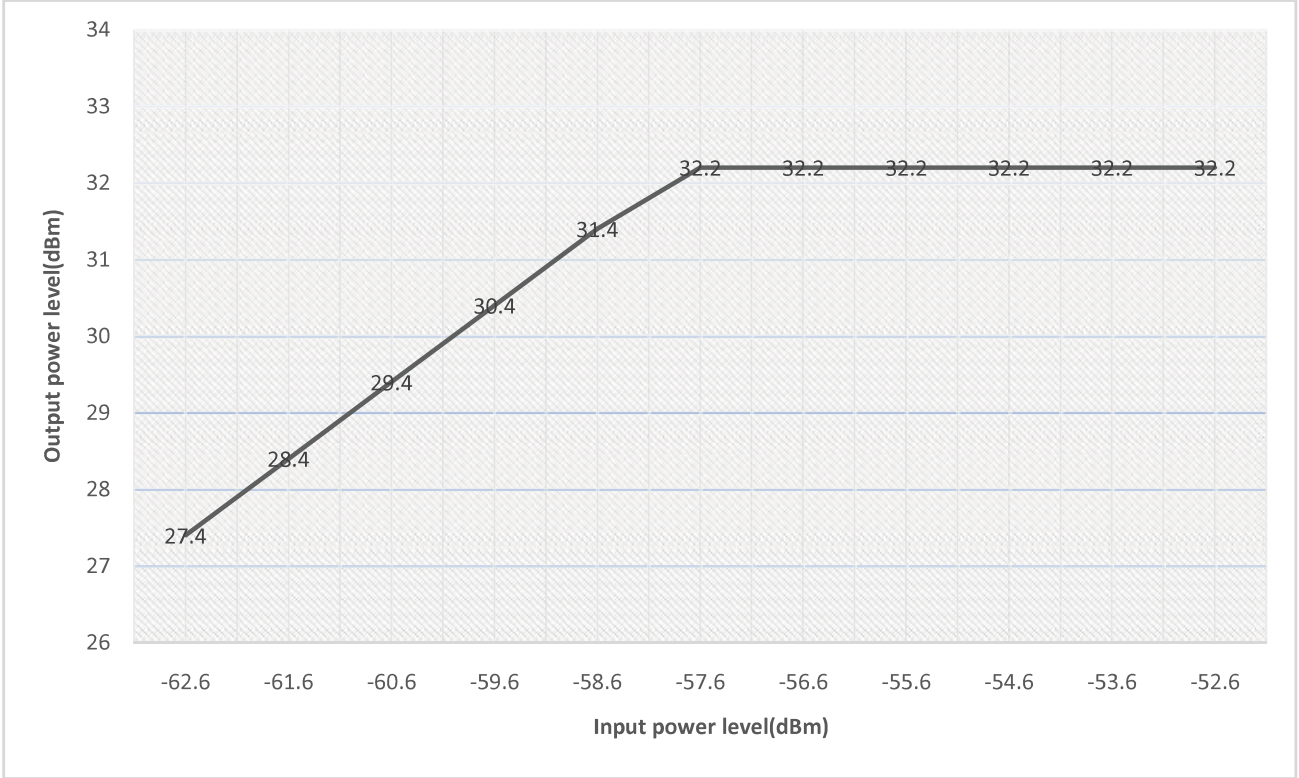
Supply Voltage: AC 110V, 50Hz

11.3.4.1. 800MHz Band (Downlink: 861MHz ~862MHz, Uplink: 816MHz ~ 817MHz)

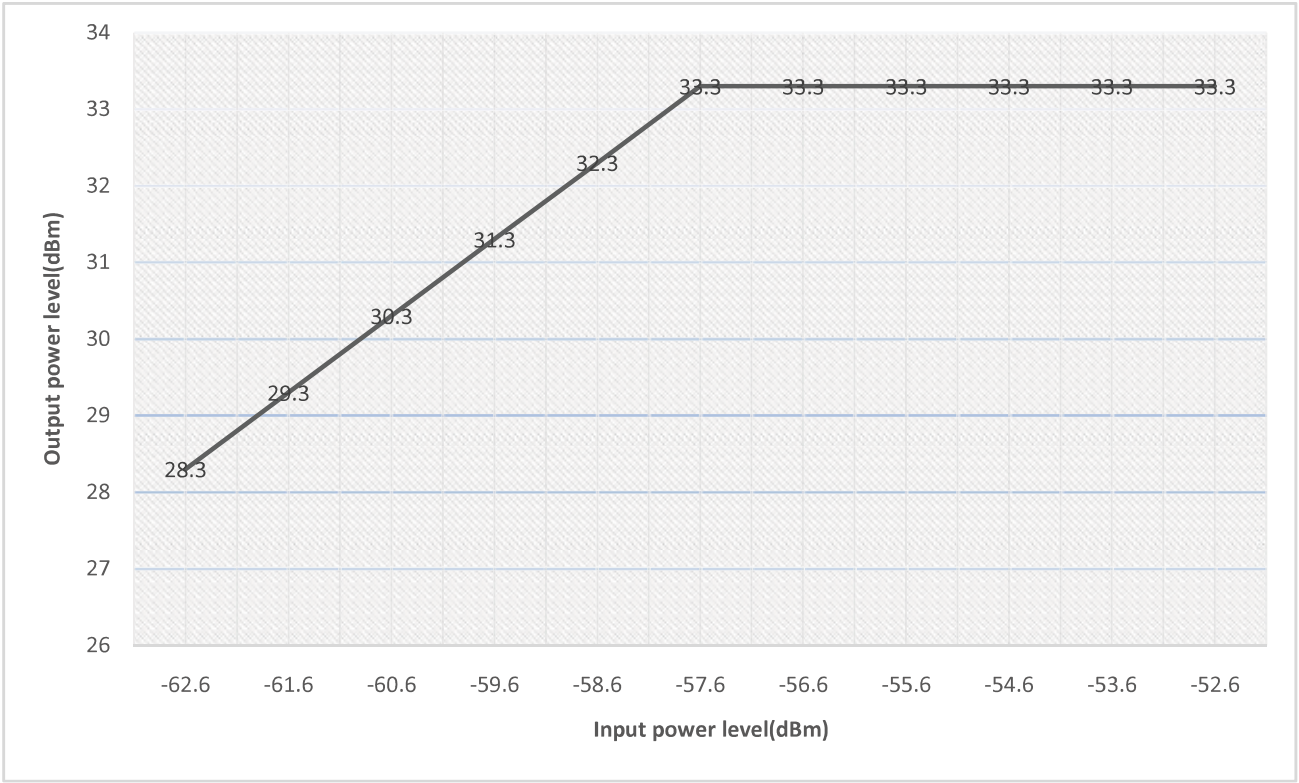
11.3.4.1.1. Downlink

11.3.4.1.1.1. P25 Phase I(C4FM)

| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.00625MHz   | -60.8                     | 1.8                       | -62.6                           | 27.4                             |
|                | -59.8                     | 1.8                       | -61.6                           | 28.4                             |
|                | -58.8                     | 1.8                       | -60.6                           | 29.4                             |
|                | -57.8                     | 1.8                       | -59.6                           | 30.4                             |
|                | -56.8                     | 1.8                       | -58.6                           | 31.4                             |
|                | -55.8                     | 1.8                       | -57.6                           | 32.2                             |
|                | -54.8                     | 1.8                       | -56.6                           | 32.2                             |
|                | -53.8                     | 1.8                       | -55.6                           | 32.2                             |
|                | -52.8                     | 1.8                       | -54.6                           | 32.2                             |
|                | -51.8                     | 1.8                       | -53.6                           | 32.2                             |
|                | -50.8                     | 1.8                       | -52.6                           | 32.2                             |



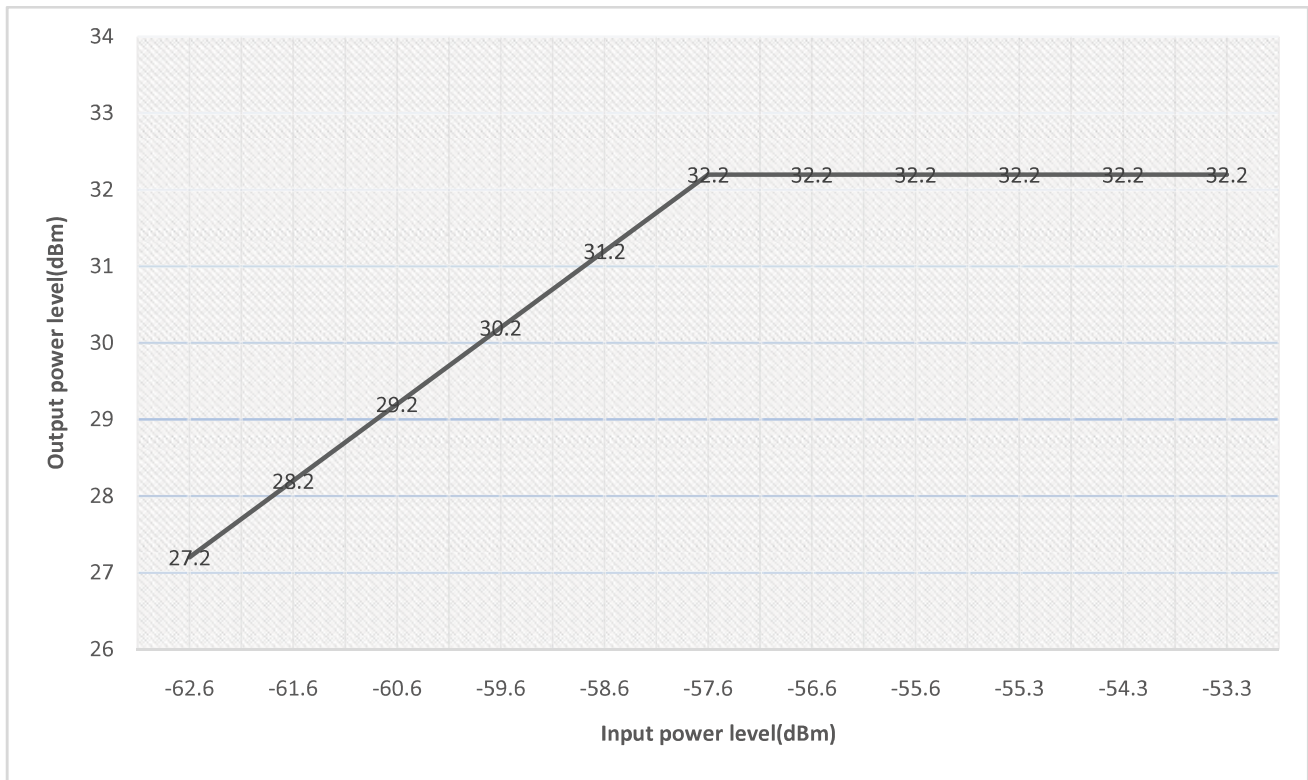
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.99375MHz   | -60.8                     | 1.8                       | -62.6                           | 28.3                             |
|                | -59.8                     | 1.8                       | -61.6                           | 29.3                             |
|                | -58.8                     | 1.8                       | -60.6                           | 30.3                             |
|                | -57.8                     | 1.8                       | -59.6                           | 31.3                             |
|                | -56.8                     | 1.8                       | -58.6                           | 32.3                             |
|                | -55.8                     | 1.8                       | -57.6                           | 33.3                             |
|                | -54.8                     | 1.8                       | -56.6                           | 33.3                             |
|                | -53.8                     | 1.8                       | -55.6                           | 33.3                             |
|                | -52.8                     | 1.8                       | -54.6                           | 33.3                             |
|                | -51.8                     | 1.8                       | -53.6                           | 33.3                             |
|                | -50.8                     | 1.8                       | -52.6                           | 33.3                             |



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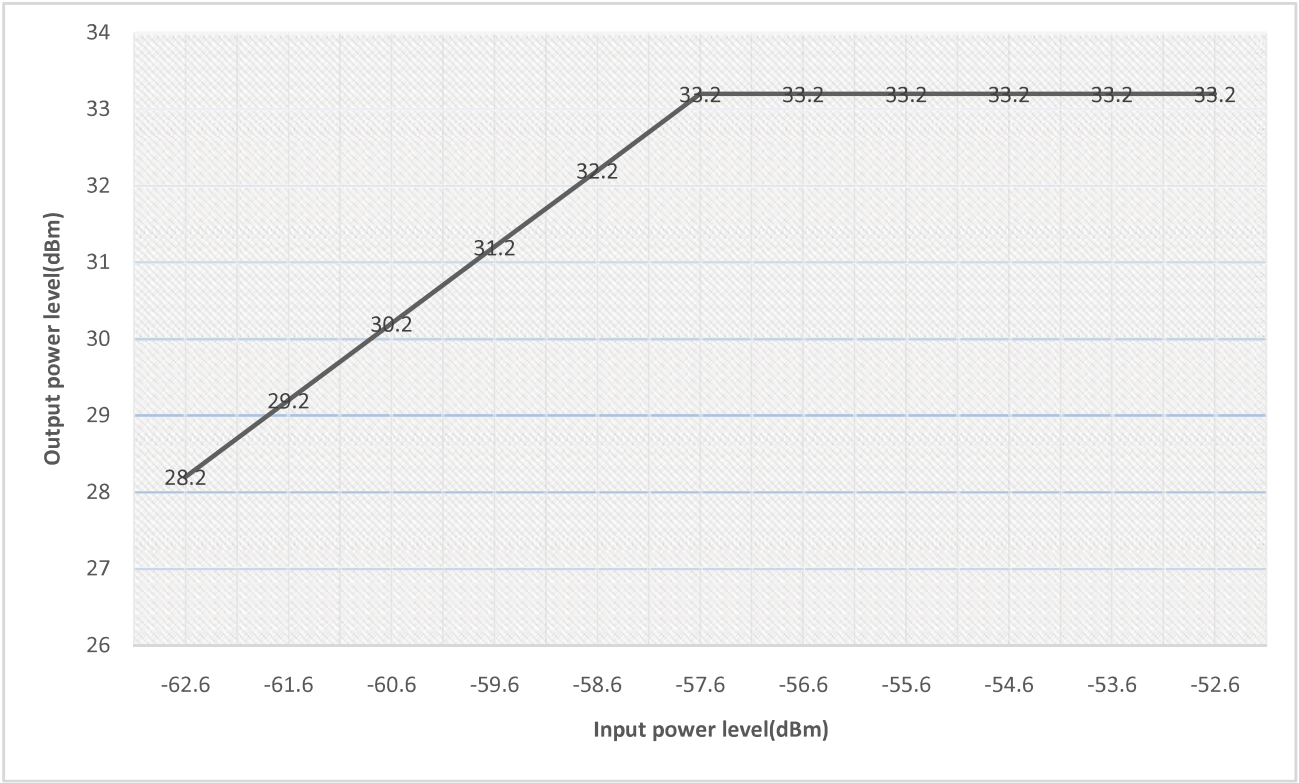
## 11.3.4.1.1.2. P25 Phase II(H-DQPSK)

|              |       |     |       |      |
|--------------|-------|-----|-------|------|
| 861.00625MHz | -60.8 | 1.8 | -62.6 | 27.2 |
|              | -59.8 | 1.8 | -61.6 | 28.2 |
|              | -58.8 | 1.8 | -60.6 | 29.2 |
|              | -57.8 | 1.8 | -59.6 | 30.2 |
|              | -56.8 | 1.8 | -58.6 | 31.2 |
|              | -55.8 | 1.8 | -57.6 | 32.2 |
|              | -54.8 | 1.8 | -56.6 | 32.2 |
|              | -53.8 | 1.8 | -55.6 | 32.2 |
|              | -53.5 | 1.8 | -55.3 | 32.2 |
|              | -52.5 | 1.8 | -54.3 | 32.2 |
|              | -51.5 | 1.8 | -53.3 | 32.2 |



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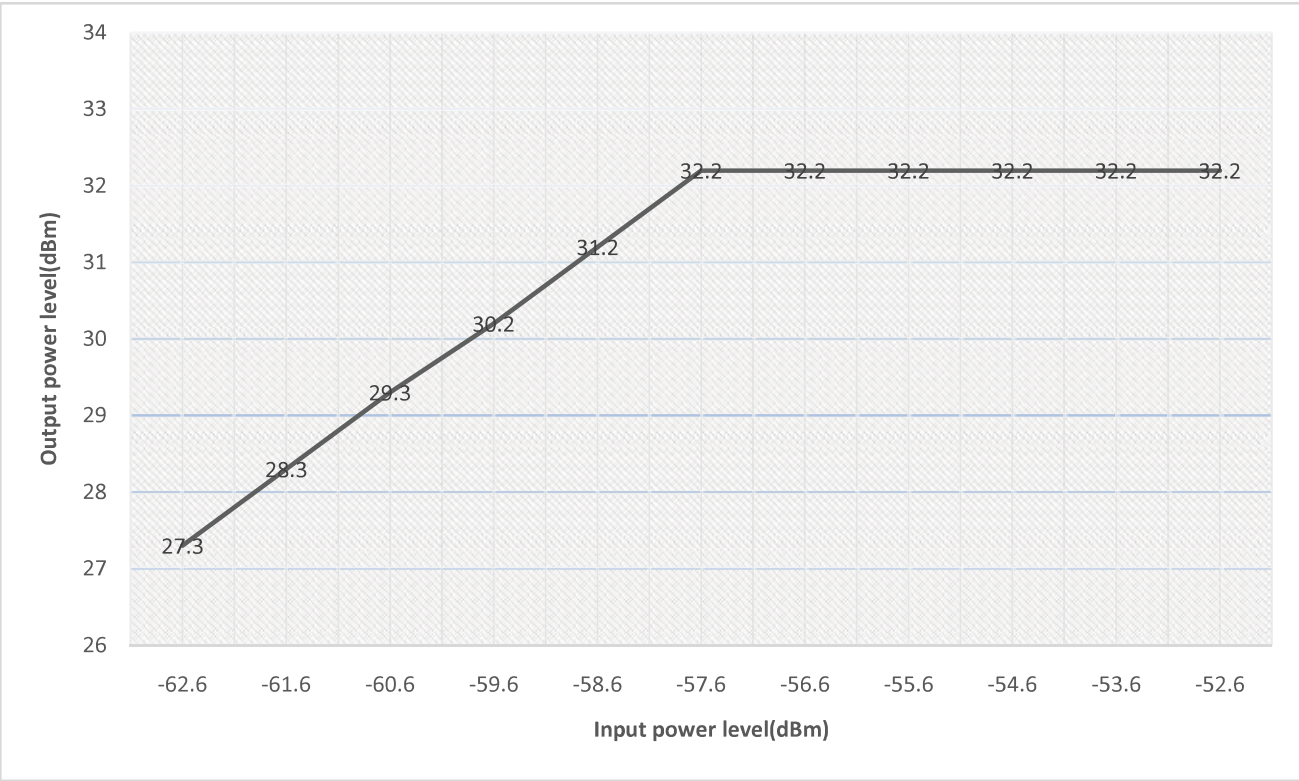
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.99375MHz   | -60.8                     | 1.8                       | -62.6                           | 28.2                             |
|                | -59.8                     | 1.8                       | -61.6                           | 29.2                             |
|                | -58.8                     | 1.8                       | -60.6                           | 30.2                             |
|                | -57.8                     | 1.8                       | -59.6                           | 31.2                             |
|                | -56.8                     | 1.8                       | -58.6                           | 32.2                             |
|                | -55.8                     | 1.8                       | -57.6                           | 33.2                             |
|                | -54.8                     | 1.8                       | -56.6                           | 33.2                             |
|                | -53.8                     | 1.8                       | -55.6                           | 33.2                             |
|                | -52.8                     | 1.8                       | -54.6                           | 33.2                             |
|                | -51.8                     | 1.8                       | -53.6                           | 33.2                             |
|                | -50.8                     | 1.8                       | -52.6                           | 33.2                             |



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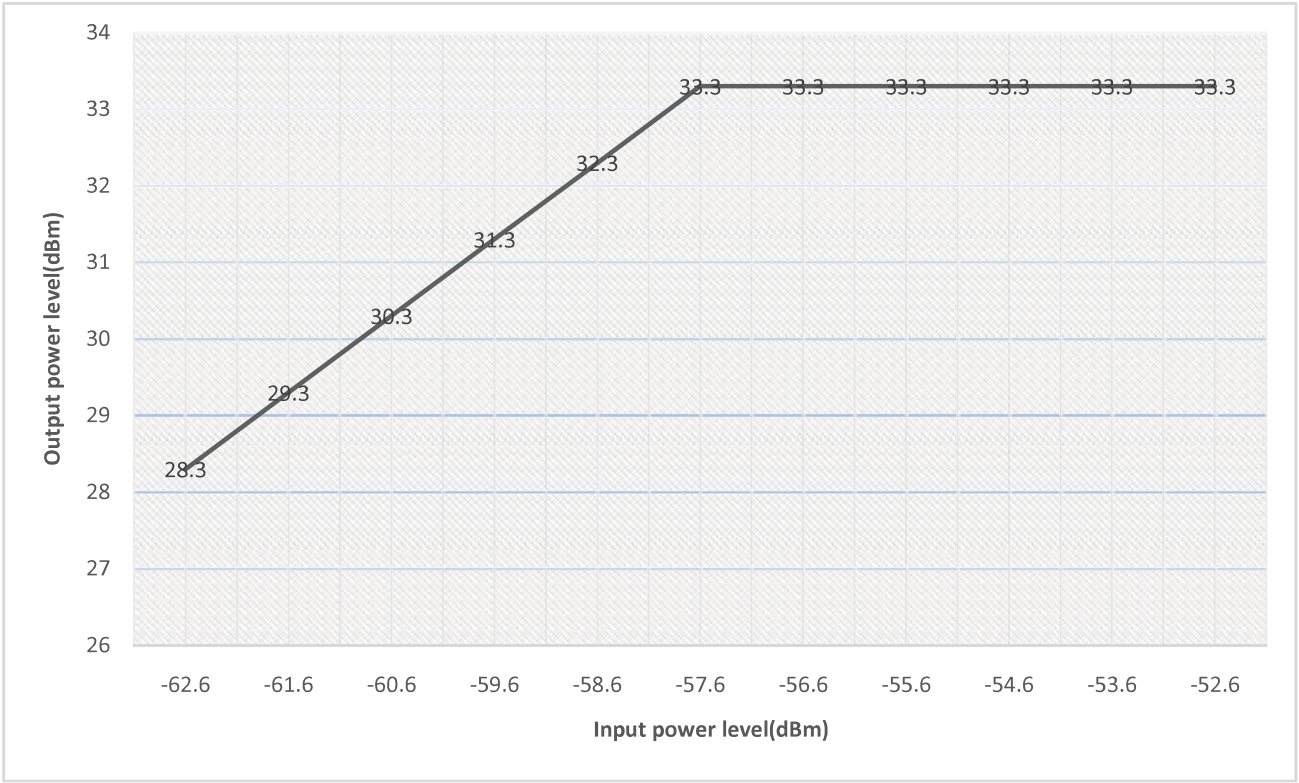
11.3.4.1.1.3. DMR

|              |       |     |       |      |
|--------------|-------|-----|-------|------|
| 861.00625MHz | -60.8 | 1.8 | -62.6 | 27.3 |
|              | -59.8 | 1.8 | -61.6 | 28.3 |
|              | -58.8 | 1.8 | -60.6 | 29.3 |
|              | -57.8 | 1.8 | -59.6 | 30.2 |
|              | -56.8 | 1.8 | -58.6 | 31.2 |
|              | -55.8 | 1.8 | -57.6 | 32.2 |
|              | -54.8 | 1.8 | -56.6 | 32.2 |
|              | -53.8 | 1.8 | -55.6 | 32.2 |
|              | -52.8 | 1.8 | -54.6 | 32.2 |
|              | -51.8 | 1.8 | -53.6 | 32.2 |
|              | -50.8 | 1.8 | -52.6 | 32.2 |



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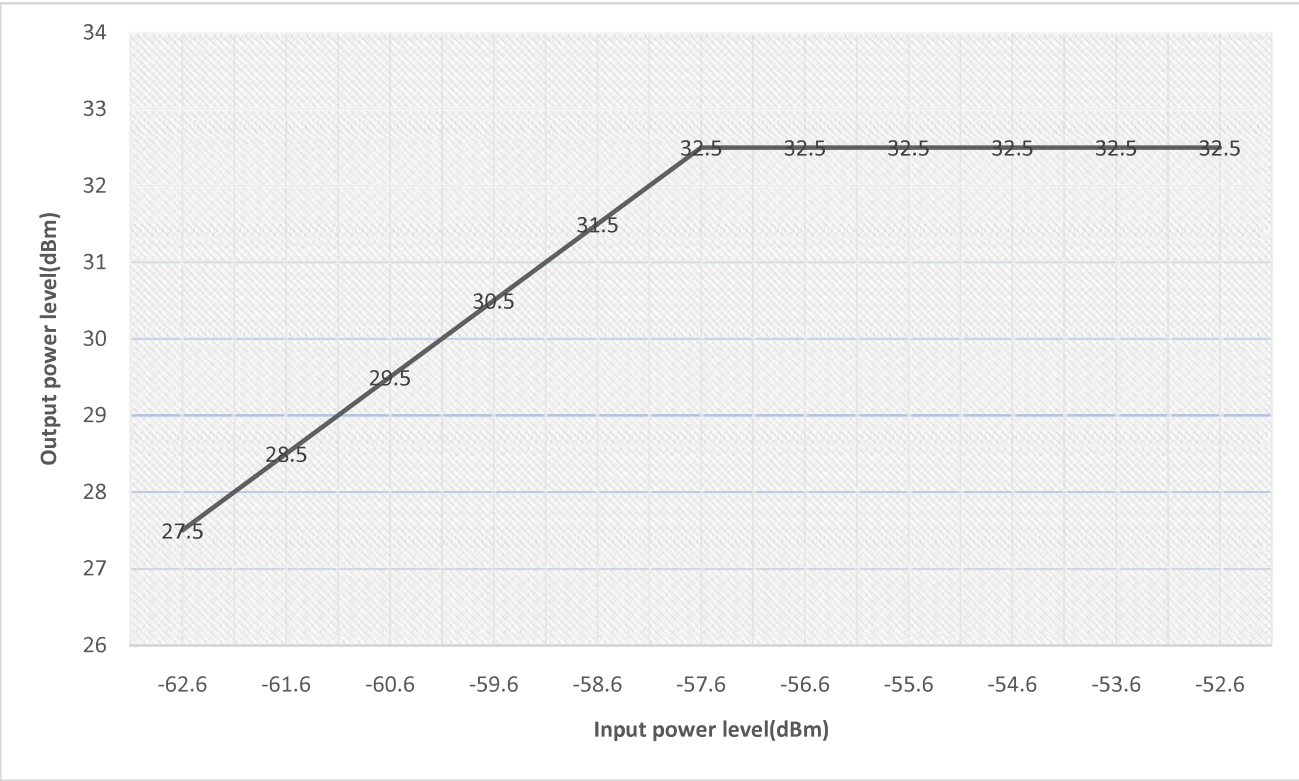
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.99375MHz   | -60.8                     | 1.8                       | -62.6                           | 28.3                             |
|                | -59.8                     | 1.8                       | -61.6                           | 29.3                             |
|                | -58.8                     | 1.8                       | -60.6                           | 30.3                             |
|                | -57.8                     | 1.8                       | -59.6                           | 31.3                             |
|                | -56.8                     | 1.8                       | -58.6                           | 32.3                             |
|                | -55.8                     | 1.8                       | -57.6                           | 33.3                             |
|                | -54.8                     | 1.8                       | -56.6                           | 33.3                             |
|                | -53.8                     | 1.8                       | -55.6                           | 33.3                             |
|                | -52.8                     | 1.8                       | -54.6                           | 33.3                             |
|                | -51.8                     | 1.8                       | -53.6                           | 33.3                             |
|                | -50.8                     | 1.8                       | -52.6                           | 33.3                             |



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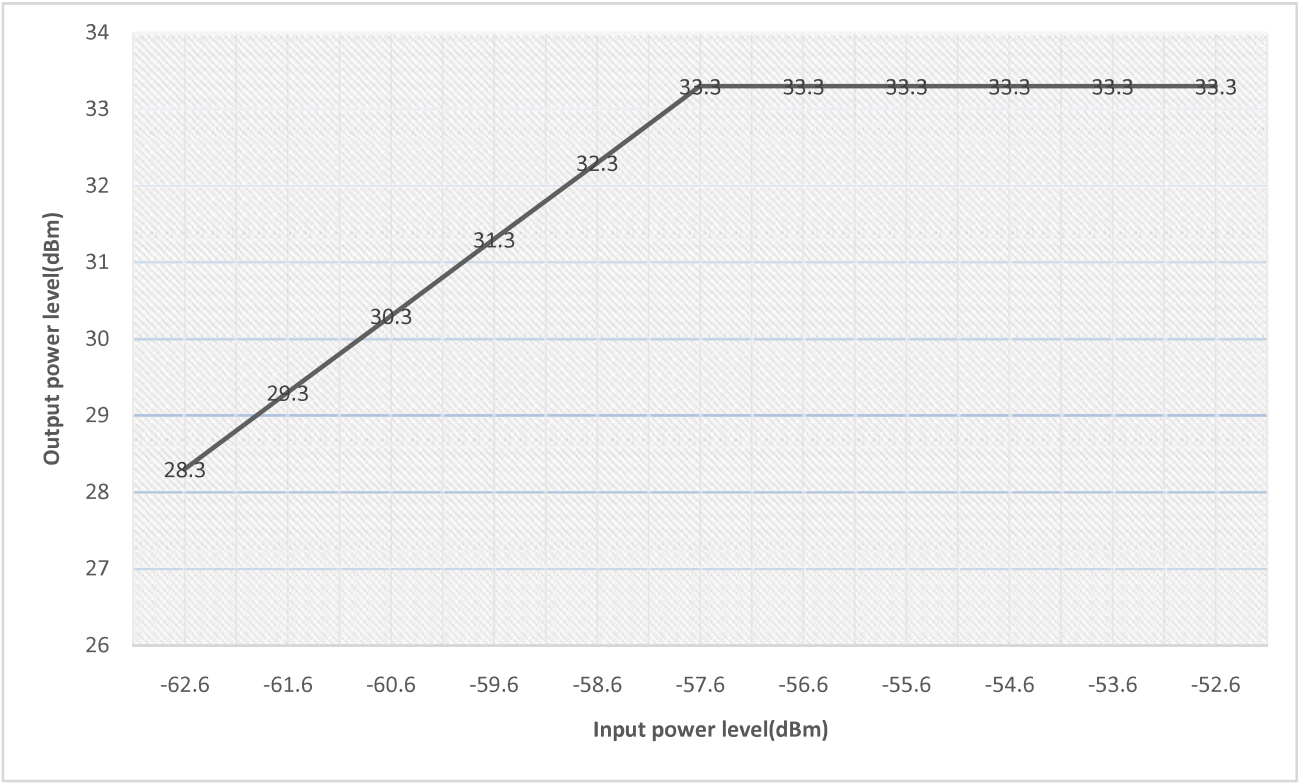
11.3.4.1.1.4. Analog FM

|             |       |     |       |      |
|-------------|-------|-----|-------|------|
| 861.0125MHz | -60.8 | 1.8 | -62.6 | 27.5 |
|             | -59.8 | 1.8 | -61.6 | 28.5 |
|             | -58.8 | 1.8 | -60.6 | 29.5 |
|             | -57.8 | 1.8 | -59.6 | 30.5 |
|             | -56.8 | 1.8 | -58.6 | 31.5 |
|             | -55.8 | 1.8 | -57.6 | 32.5 |
|             | -54.8 | 1.8 | -56.6 | 32.5 |
|             | -53.8 | 1.8 | -55.6 | 32.5 |
|             | -52.8 | 1.8 | -54.6 | 32.5 |
|             | -51.8 | 1.8 | -53.6 | 32.5 |
|             | -50.8 | 1.8 | -52.6 | 32.5 |



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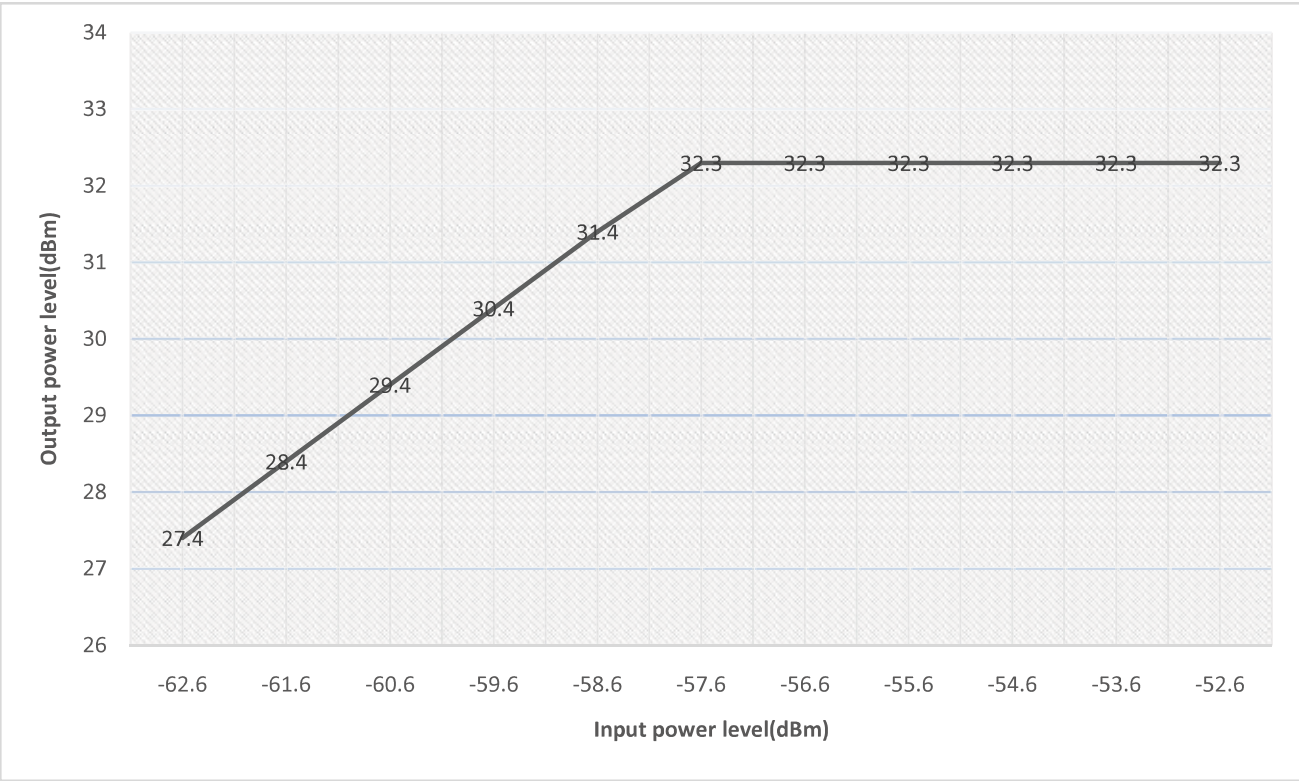
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.9875MHz    | -60.8                     | 1.8                       | -62.6                           | 28.3                             |
|                | -59.8                     | 1.8                       | -61.6                           | 29.3                             |
|                | -58.8                     | 1.8                       | -60.6                           | 30.3                             |
|                | -57.8                     | 1.8                       | -59.6                           | 31.3                             |
|                | -56.8                     | 1.8                       | -58.6                           | 32.3                             |
|                | -55.8                     | 1.8                       | -57.6                           | 33.3                             |
|                | -54.8                     | 1.8                       | -56.6                           | 33.3                             |
|                | -53.8                     | 1.8                       | -55.6                           | 33.3                             |
|                | -52.8                     | 1.8                       | -54.6                           | 33.3                             |
|                | -51.8                     | 1.8                       | -53.6                           | 33.3                             |
|                | -50.8                     | 1.8                       | -52.6                           | 33.3                             |



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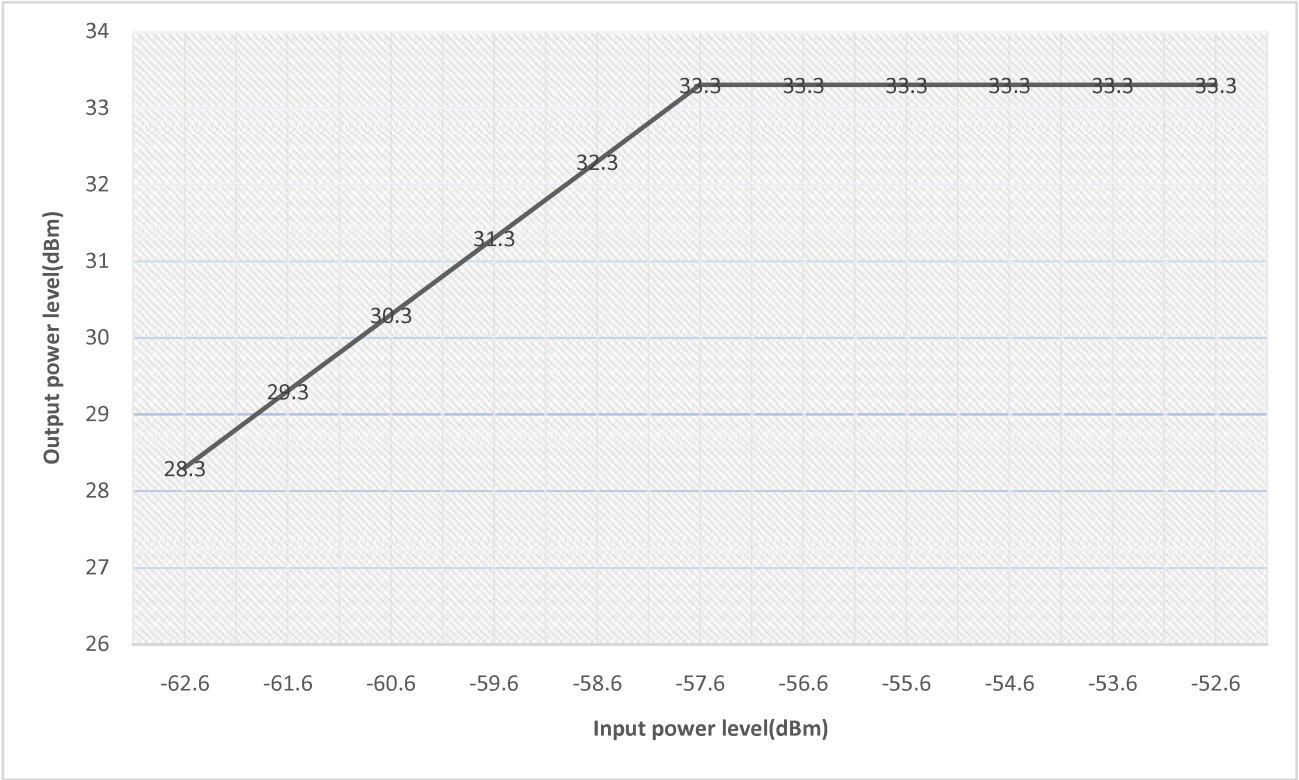
11.3.4.1.1.5. Tetra

|             |       |     |       |      |
|-------------|-------|-----|-------|------|
| 861.0125MHz | -60.8 | 1.8 | -62.6 | 27.4 |
|             | -59.8 | 1.8 | -61.6 | 28.4 |
|             | -58.8 | 1.8 | -60.6 | 29.4 |
|             | -57.8 | 1.8 | -59.6 | 30.4 |
|             | -56.8 | 1.8 | -58.6 | 31.4 |
|             | -55.8 | 1.8 | -57.6 | 32.3 |
|             | -54.8 | 1.8 | -56.6 | 32.3 |
|             | -53.8 | 1.8 | -55.6 | 32.3 |
|             | -52.8 | 1.8 | -54.6 | 32.3 |
|             | -51.8 | 1.8 | -53.6 | 32.3 |
|             | -50.8 | 1.8 | -52.6 | 32.3 |



———— The following blanks ————

| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 861.9875MHz    | -60.8                     | 1.8                       | -62.6                           | 28.3                             |
|                | -59.8                     | 1.8                       | -61.6                           | 29.3                             |
|                | -58.8                     | 1.8                       | -60.6                           | 30.3                             |
|                | -57.8                     | 1.8                       | -59.6                           | 31.3                             |
|                | -56.8                     | 1.8                       | -58.6                           | 32.3                             |
|                | -55.8                     | 1.8                       | -57.6                           | 33.3                             |
|                | -54.8                     | 1.8                       | -56.6                           | 33.3                             |
|                | -53.8                     | 1.8                       | -55.6                           | 33.3                             |
|                | -52.8                     | 1.8                       | -54.6                           | 33.3                             |
|                | -51.8                     | 1.8                       | -53.6                           | 33.3                             |
|                | -50.8                     | 1.8                       | -52.6                           | 33.3                             |

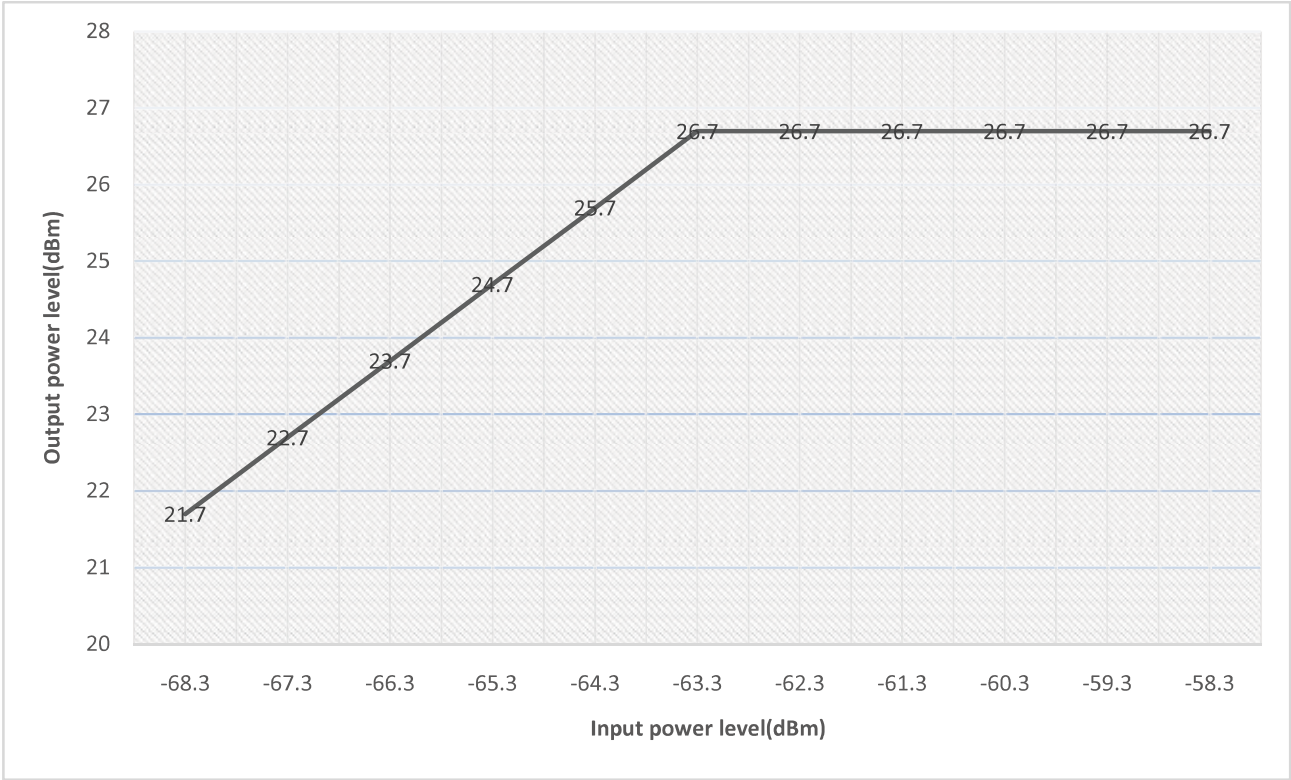


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11.3.4.1.2. Uplink

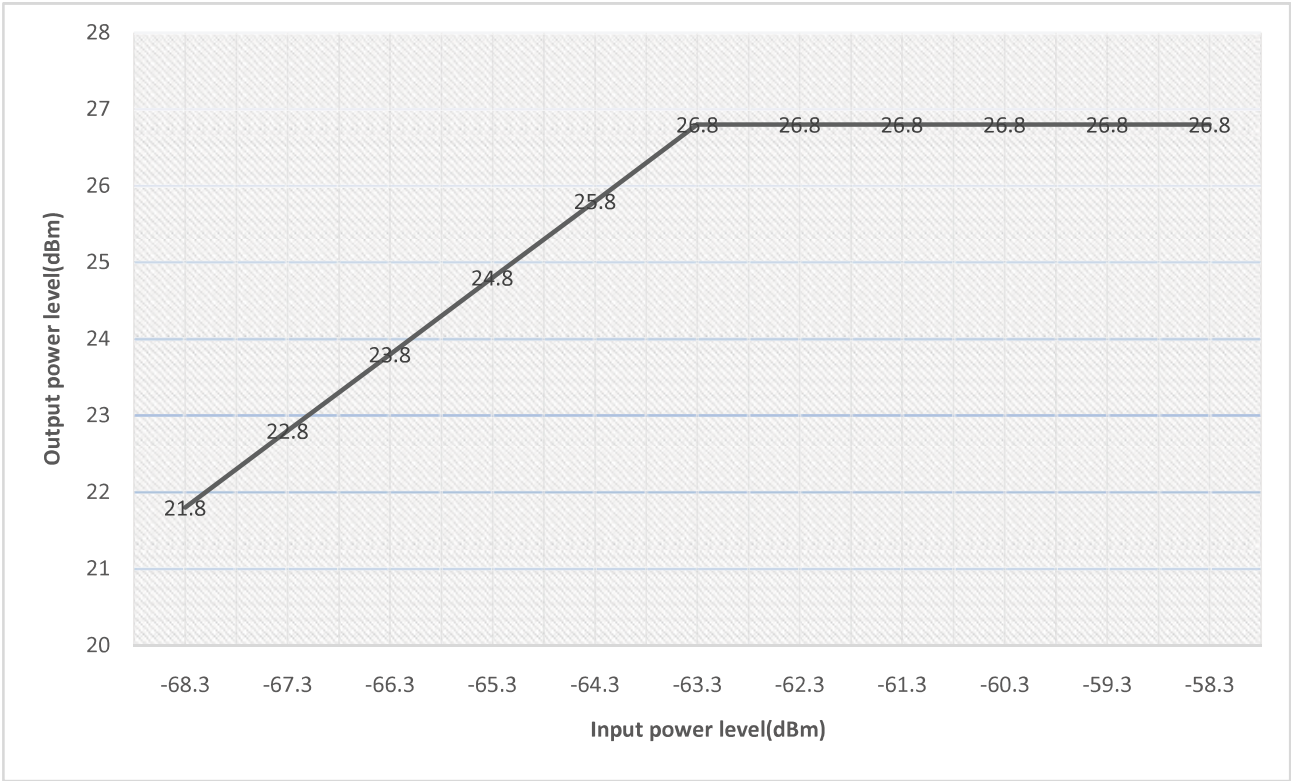
11.3.4.1.2.1. P25 Phase I(C4FM)

|              |       |     |       |      |
|--------------|-------|-----|-------|------|
| 816.00625MHz | -67.3 | 1.0 | -68.3 | 21.7 |
|              | -66.3 | 1.0 | -67.3 | 22.7 |
|              | -65.3 | 1.0 | -66.3 | 23.7 |
|              | -64.3 | 1.0 | -65.3 | 24.7 |
|              | -63.3 | 1.0 | -64.3 | 25.7 |
|              | -62.3 | 1.0 | -63.3 | 26.7 |
|              | -61.3 | 1.0 | -62.3 | 26.7 |
|              | -60.3 | 1.0 | -61.3 | 26.7 |
|              | -59.3 | 1.0 | -60.3 | 26.7 |
|              | -58.3 | 1.0 | -59.3 | 26.7 |
|              | -57.3 | 1.0 | -58.3 | 26.7 |



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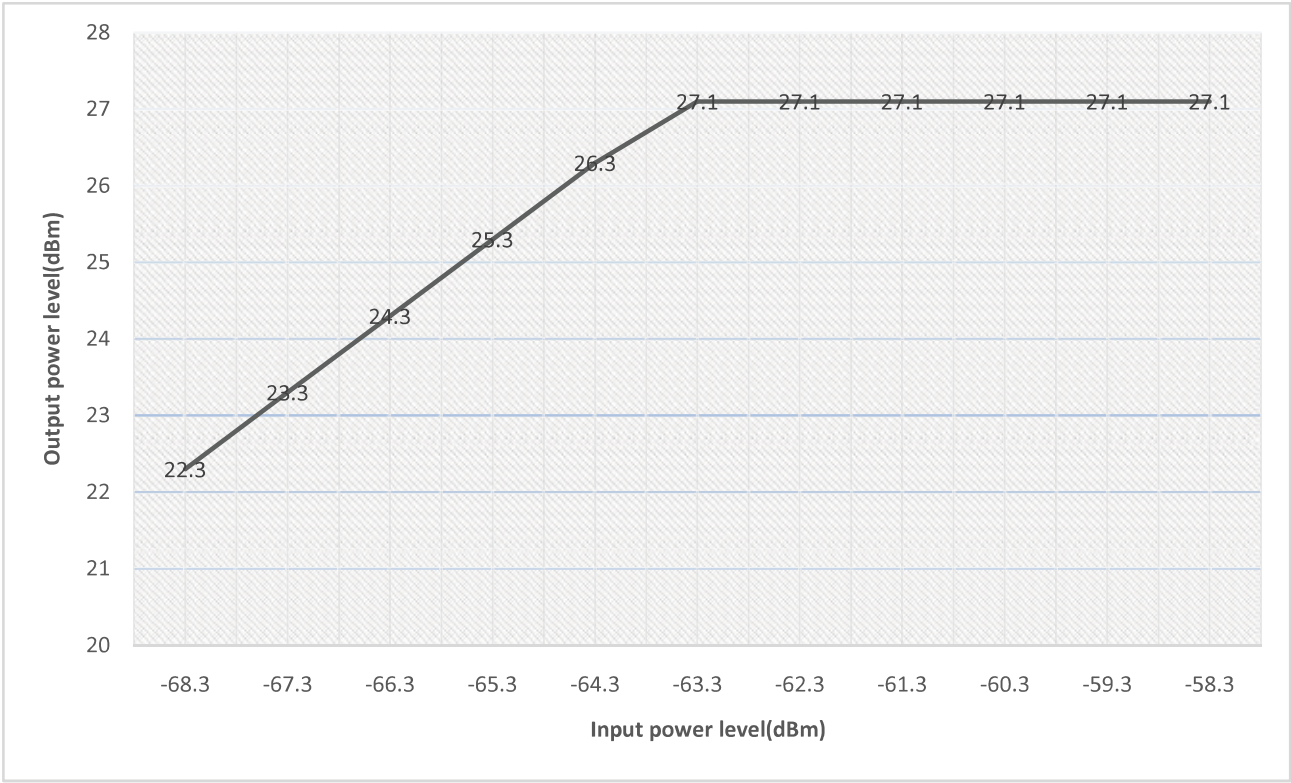
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 816.99375MHz   | -67.3                     | 1.0                       | -68.3                           | 21.8                             |
|                | -66.3                     | 1.0                       | -67.3                           | 22.8                             |
|                | -65.3                     | 1.0                       | -66.3                           | 23.8                             |
|                | -64.3                     | 1.0                       | -65.3                           | 24.8                             |
|                | -63.3                     | 1.0                       | -64.3                           | 25.8                             |
|                | -62.3                     | 1.0                       | -63.3                           | 26.8                             |
|                | -61.3                     | 1.0                       | -62.3                           | 26.8                             |
|                | -60.3                     | 1.0                       | -61.3                           | 26.8                             |
|                | -59.3                     | 1.0                       | -60.3                           | 26.8                             |
|                | -58.3                     | 1.0                       | -59.3                           | 26.8                             |
|                | -57.3                     | 1.0                       | -58.3                           | 26.8                             |



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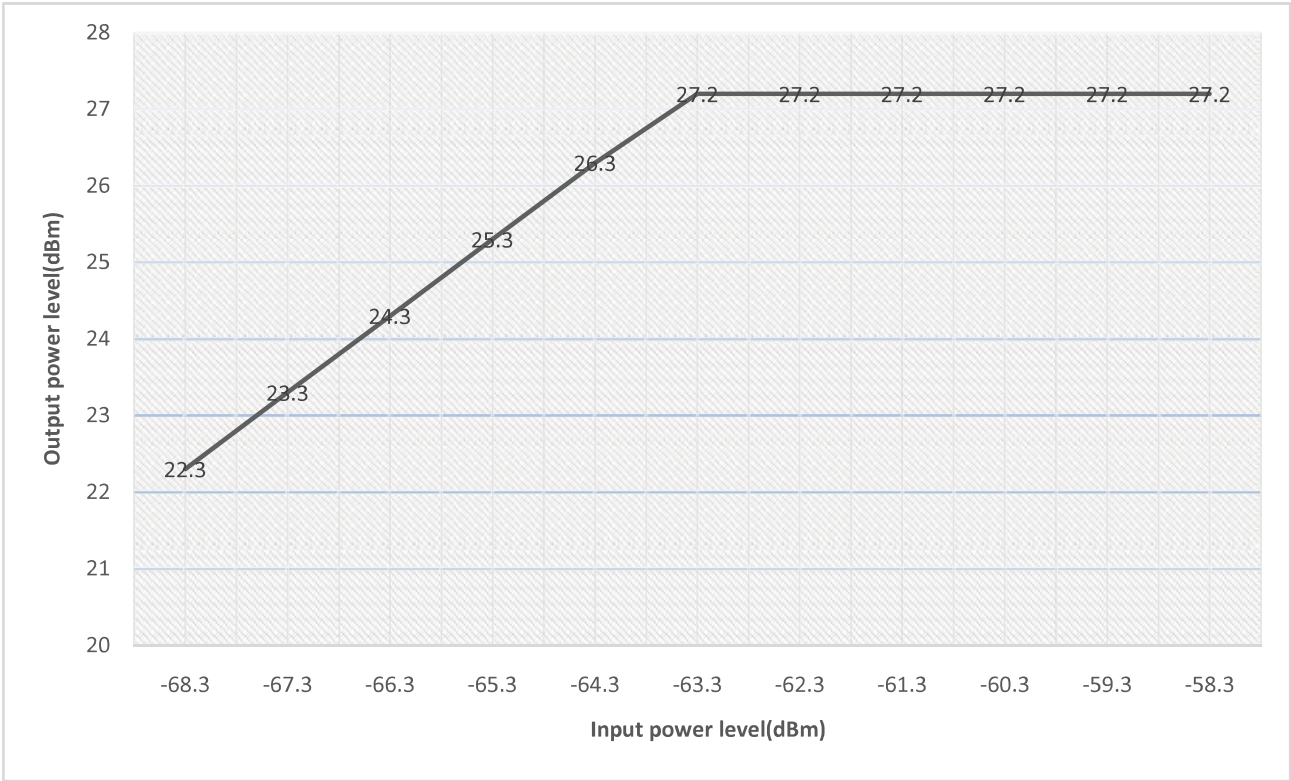
11.3.4.1.2.2. P25 Phase II(H-DQPSK)

|              |       |     |       |      |
|--------------|-------|-----|-------|------|
| 816.00625MHz | -67.3 | 1.0 | -68.3 | 22.3 |
|              | -66.3 | 1.0 | -67.3 | 23.3 |
|              | -65.3 | 1.0 | -66.3 | 24.3 |
|              | -64.3 | 1.0 | -65.3 | 25.3 |
|              | -63.3 | 1.0 | -64.3 | 26.3 |
|              | -62.3 | 1.0 | -63.3 | 27.1 |
|              | -61.3 | 1.0 | -62.3 | 27.1 |
|              | -60.3 | 1.0 | -61.3 | 27.1 |
|              | -59.3 | 1.0 | -60.3 | 27.1 |
|              | -58.3 | 1.0 | -59.3 | 27.1 |
|              | -57.3 | 1.0 | -58.3 | 27.1 |



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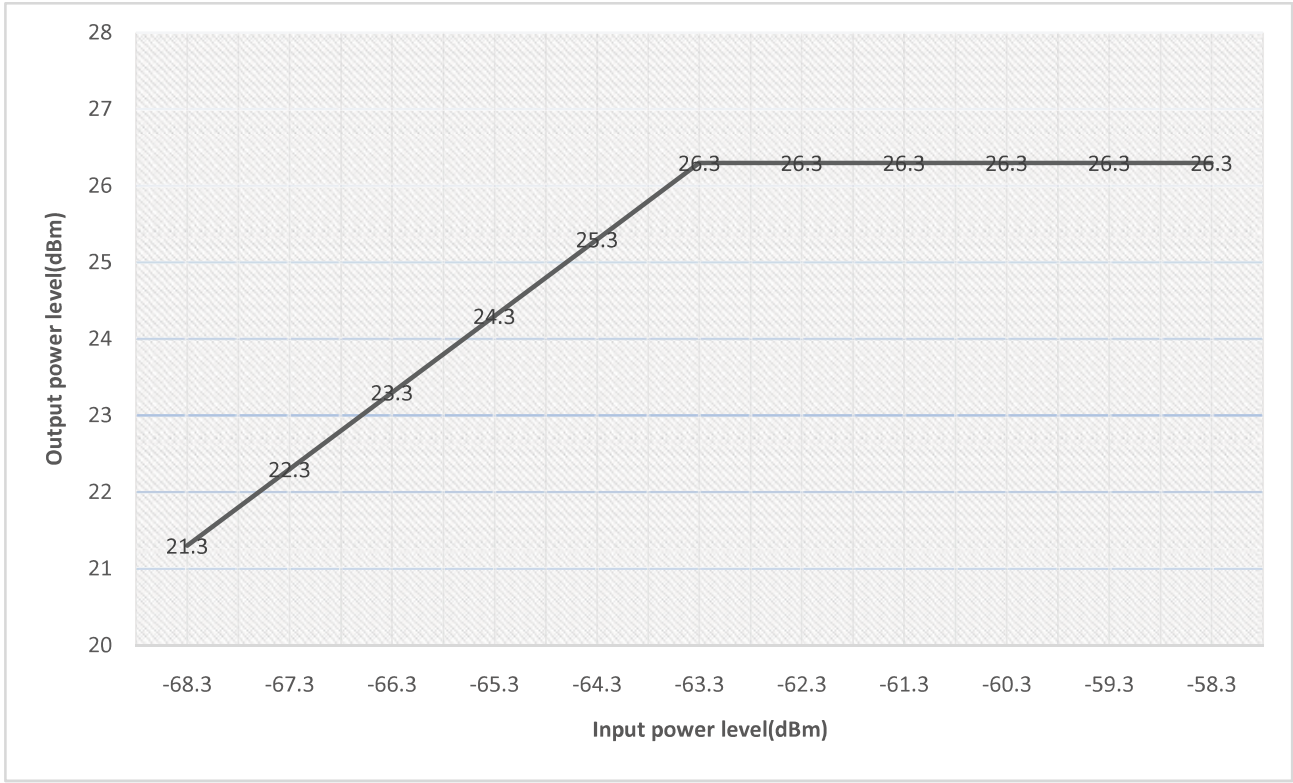
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 816.99375MHz   | -67.3                     | 1.0                       | -68.3                           | 22.3                             |
|                | -66.3                     | 1.0                       | -67.3                           | 23.3                             |
|                | -65.3                     | 1.0                       | -66.3                           | 24.3                             |
|                | -64.3                     | 1.0                       | -65.3                           | 25.3                             |
|                | -63.3                     | 1.0                       | -64.3                           | 26.3                             |
|                | -62.3                     | 1.0                       | -63.3                           | 27.2                             |
|                | -61.3                     | 1.0                       | -62.3                           | 27.2                             |
|                | -60.3                     | 1.0                       | -61.3                           | 27.2                             |
|                | -59.3                     | 1.0                       | -60.3                           | 27.2                             |
|                | -58.3                     | 1.0                       | -59.3                           | 27.2                             |
|                | -57.3                     | 1.0                       | -58.3                           | 27.2                             |



----- The following blanks -----

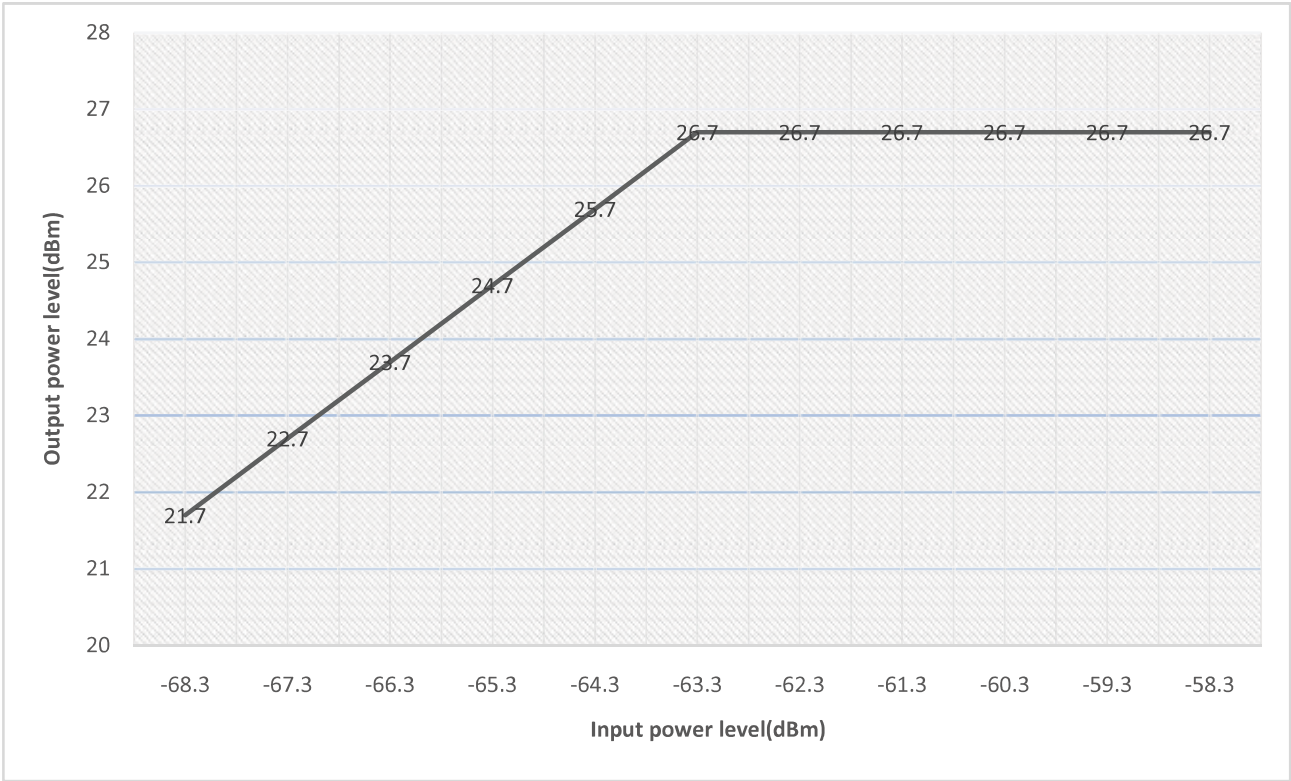
11.3.4.1.2.3. DMR

|              |       |     |       |      |
|--------------|-------|-----|-------|------|
| 816.00625MHz | -67.3 | 1.0 | -68.3 | 21.3 |
|              | -66.3 | 1.0 | -67.3 | 22.3 |
|              | -65.3 | 1.0 | -66.3 | 23.3 |
|              | -64.3 | 1.0 | -65.3 | 24.3 |
|              | -63.3 | 1.0 | -64.3 | 25.3 |
|              | -62.3 | 1.0 | -63.3 | 26.3 |
|              | -61.3 | 1.0 | -62.3 | 26.3 |
|              | -60.3 | 1.0 | -61.3 | 26.3 |
|              | -59.3 | 1.0 | -60.3 | 26.3 |
|              | -58.3 | 1.0 | -59.3 | 26.3 |
|              | -57.3 | 1.0 | -58.3 | 26.3 |



———— The following blanks —————

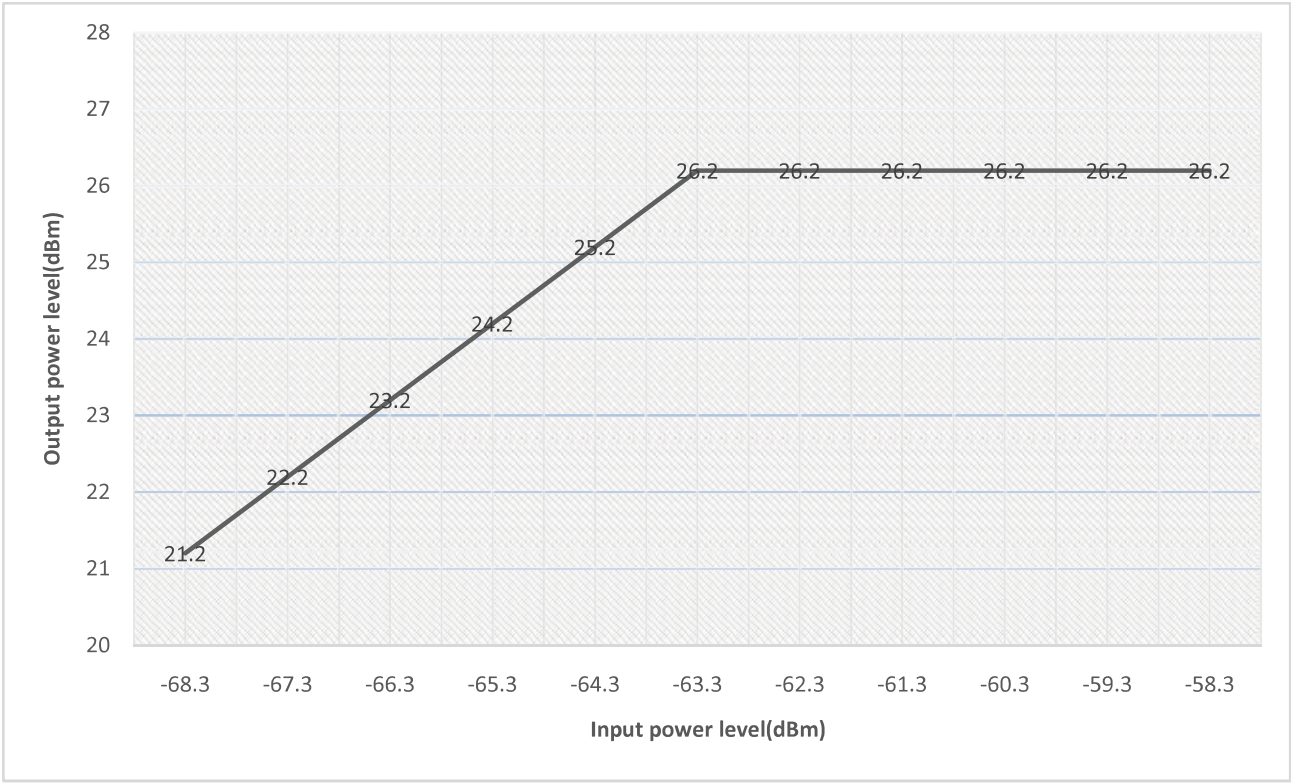
| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 816.99375MHz   | -67.3                     | 1.0                       | -68.3                           | 21.7                             |
|                | -66.3                     | 1.0                       | -67.3                           | 22.7                             |
|                | -65.3                     | 1.0                       | -66.3                           | 23.7                             |
|                | -64.3                     | 1.0                       | -65.3                           | 24.7                             |
|                | -63.3                     | 1.0                       | -64.3                           | 25.7                             |
|                | -62.3                     | 1.0                       | -63.3                           | 26.7                             |
|                | -61.3                     | 1.0                       | -62.3                           | 26.7                             |
|                | -60.3                     | 1.0                       | -61.3                           | 26.7                             |
|                | -59.3                     | 1.0                       | -60.3                           | 26.7                             |
|                | -58.3                     | 1.0                       | -59.3                           | 26.7                             |
|                | -57.3                     | 1.0                       | -58.3                           | 26.7                             |



----- The following blanks -----

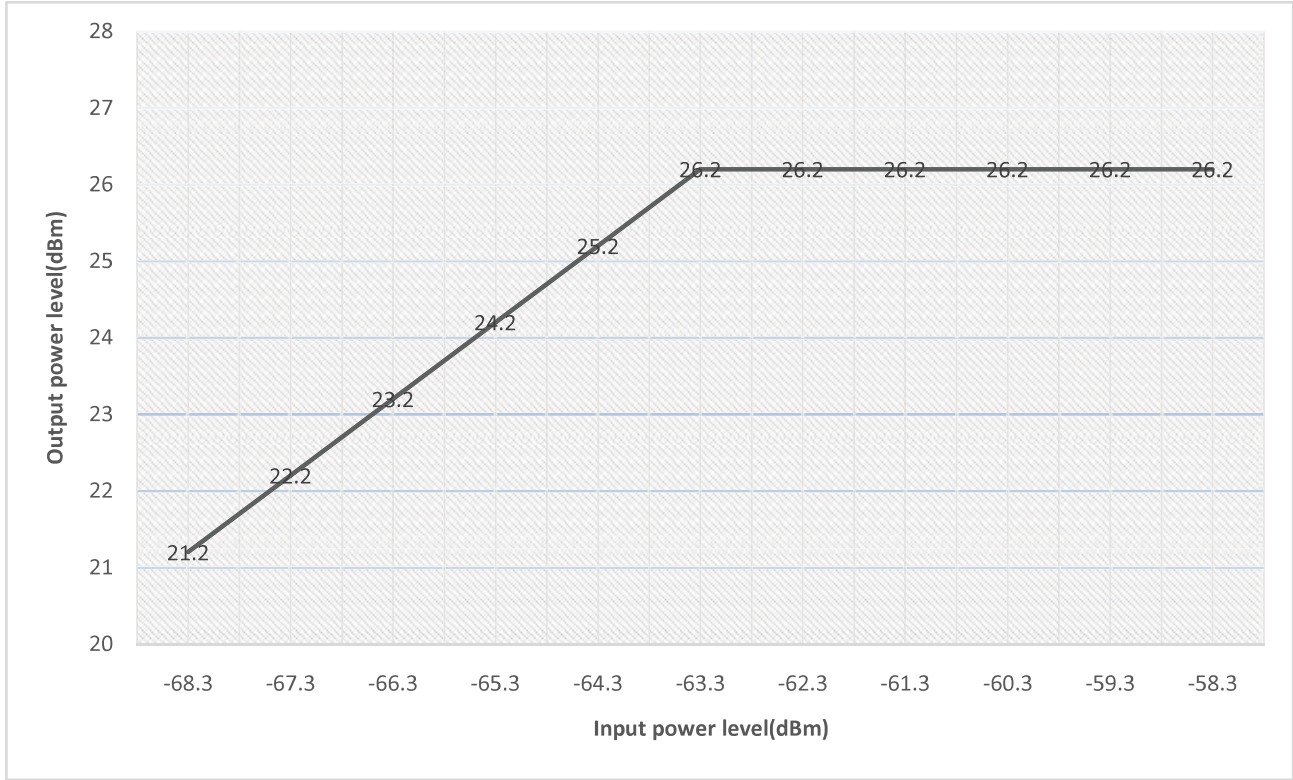
11.3.4.1.2.4. Analog FM

|             |       |     |       |      |
|-------------|-------|-----|-------|------|
| 816.0125MHz | -67.3 | 1.0 | -68.3 | 21.2 |
|             | -66.3 | 1.0 | -67.3 | 22.2 |
|             | -65.3 | 1.0 | -66.3 | 23.2 |
|             | -64.3 | 1.0 | -65.3 | 24.2 |
|             | -63.3 | 1.0 | -64.3 | 25.2 |
|             | -62.3 | 1.0 | -63.3 | 26.2 |
|             | -61.3 | 1.0 | -62.3 | 26.2 |
|             | -60.3 | 1.0 | -61.3 | 26.2 |
|             | -59.3 | 1.0 | -60.3 | 26.2 |
|             | -58.3 | 1.0 | -59.3 | 26.2 |
|             | -57.3 | 1.0 | -58.3 | 26.2 |



———— The following blanks —————

| Test frequency | Signal output power (dBm) | EUT Input cable loss (dB) | EUT Corrected Input power (dBm) | EUT Corrected Output power (dBm) |
|----------------|---------------------------|---------------------------|---------------------------------|----------------------------------|
| 816.9875MHz    | -67.3                     | 1.0                       | -68.3                           | 21.2                             |
|                | -66.3                     | 1.0                       | -67.3                           | 22.2                             |
|                | -65.3                     | 1.0                       | -66.3                           | 23.2                             |
|                | -64.3                     | 1.0                       | -65.3                           | 24.2                             |
|                | -63.3                     | 1.0                       | -64.3                           | 25.2                             |
|                | -62.3                     | 1.0                       | -63.3                           | 26.2                             |
|                | -61.3                     | 1.0                       | -62.3                           | 26.2                             |
|                | -60.3                     | 1.0                       | -61.3                           | 26.2                             |
|                | -59.3                     | 1.0                       | -60.3                           | 26.2                             |
|                | -58.3                     | 1.0                       | -59.3                           | 26.2                             |
|                | -57.3                     | 1.0                       | -58.3                           | 26.2                             |



----- The following blanks -----