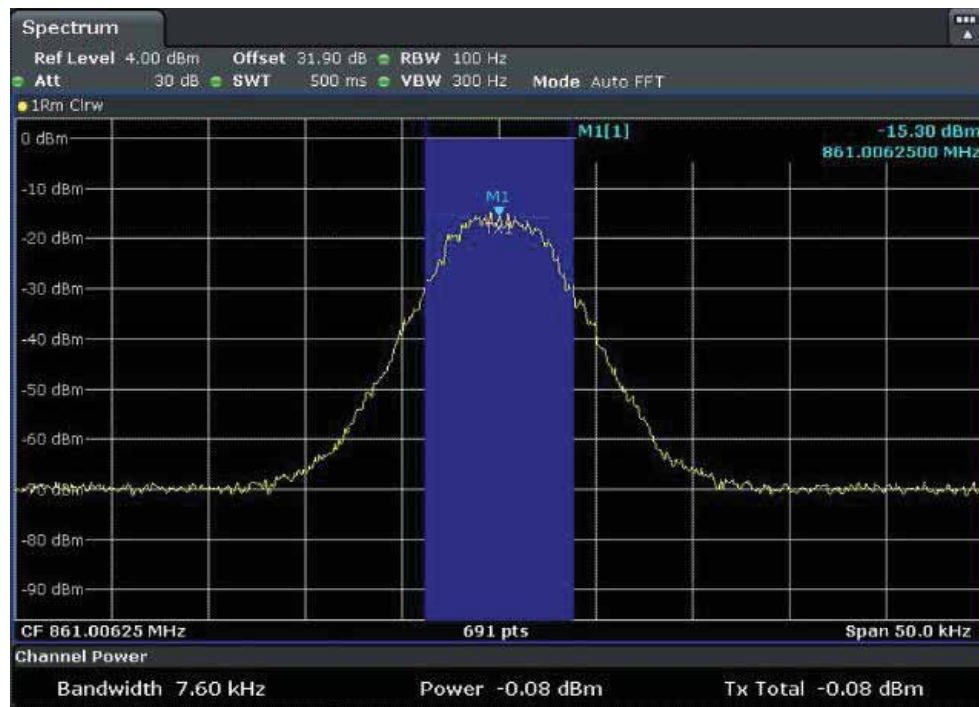
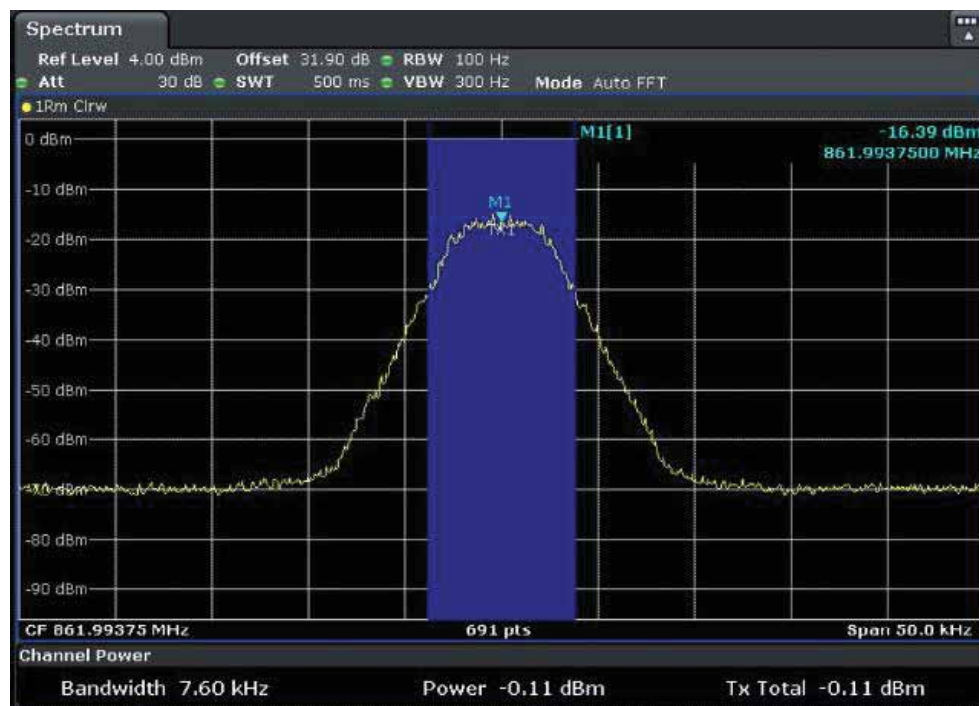


11.2.3.1.3. DMR

11.2.3.1.3.1. Downlink



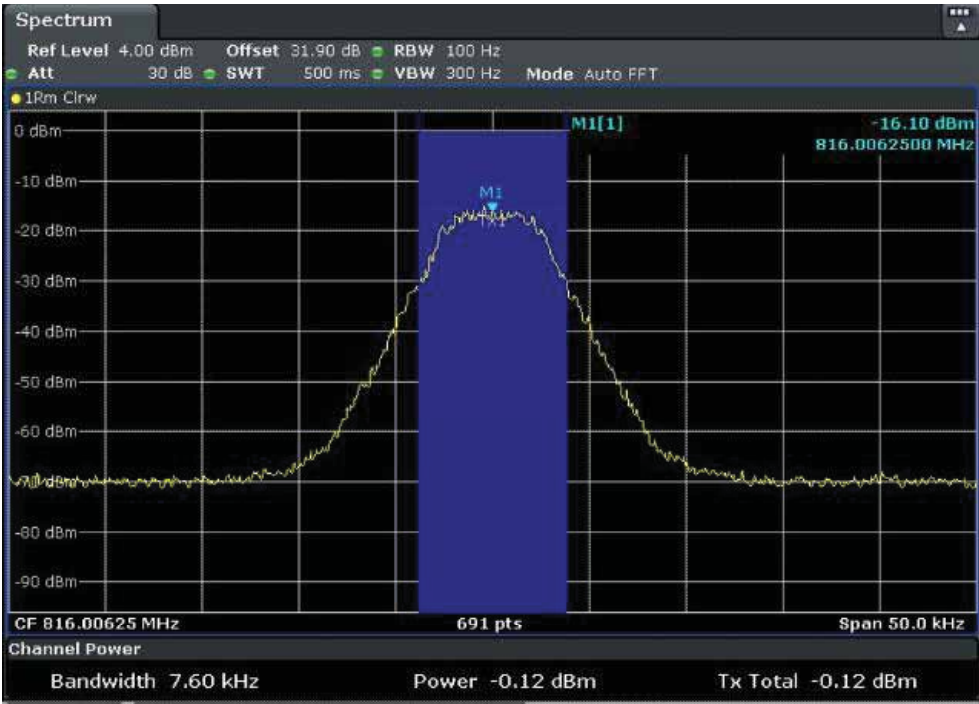
Low Frequency: 861.00625MHz



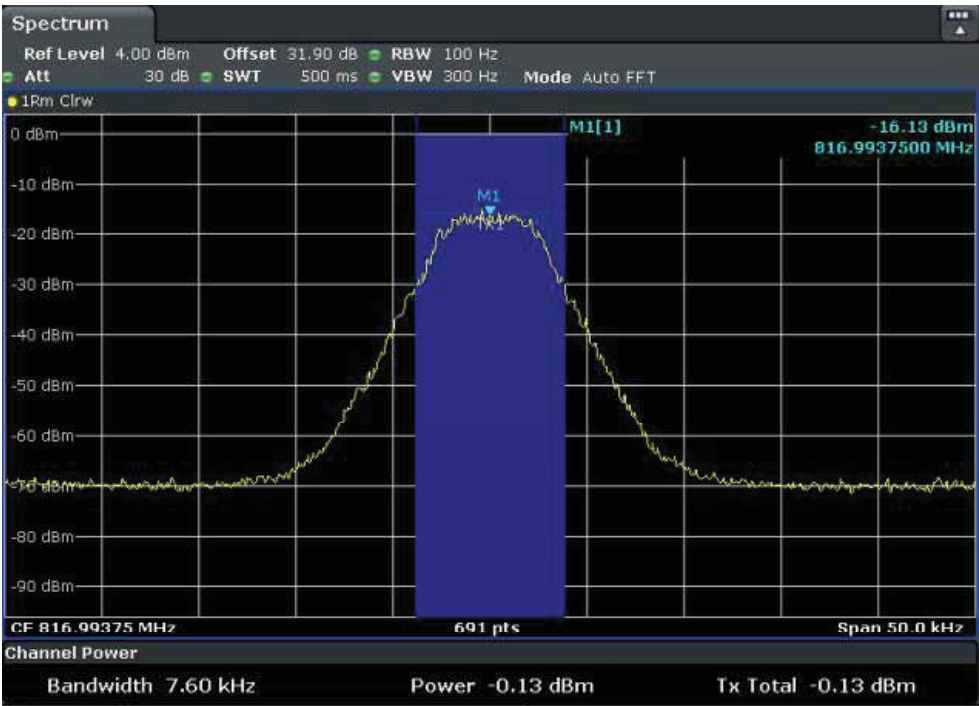
High Frequency: 861.99375MHz

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

11.2.3.1.3.2. Uplink



Low Frequency: 816.00625MHz

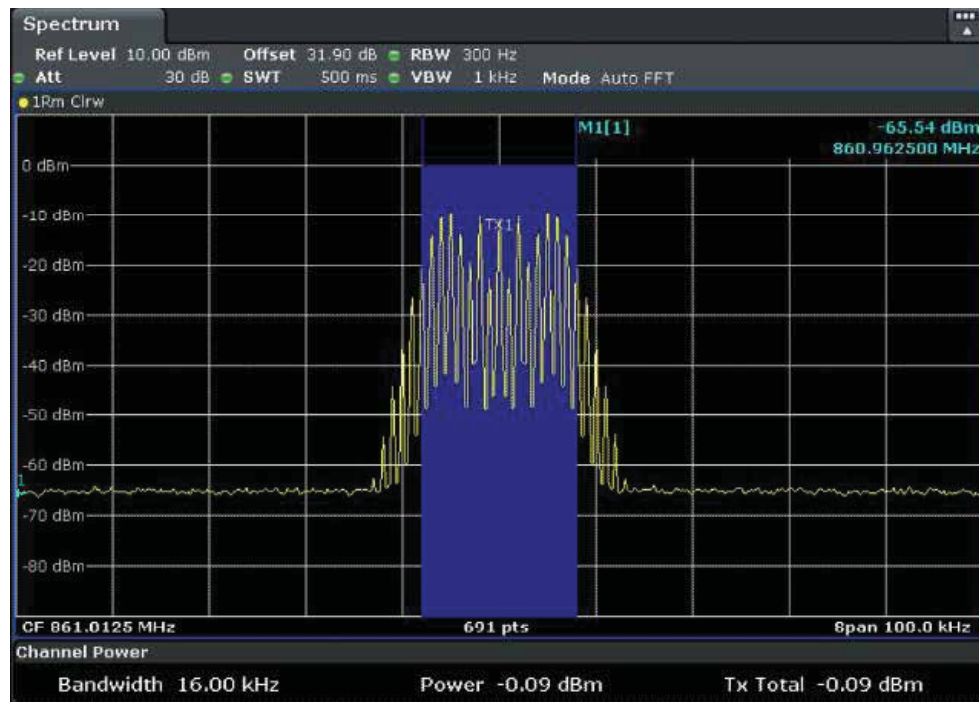


High Frequency: 816.99375MHz

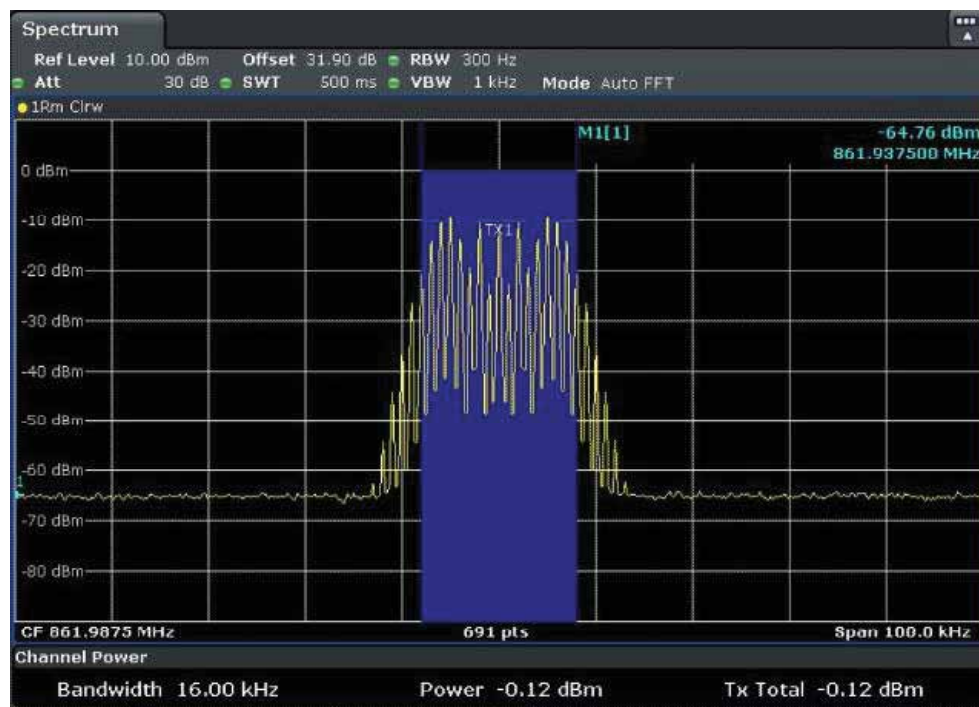
----- The following blanks -----

11.2.3.1.4. Analog FM

11.2.3.1.4.1. Downlink



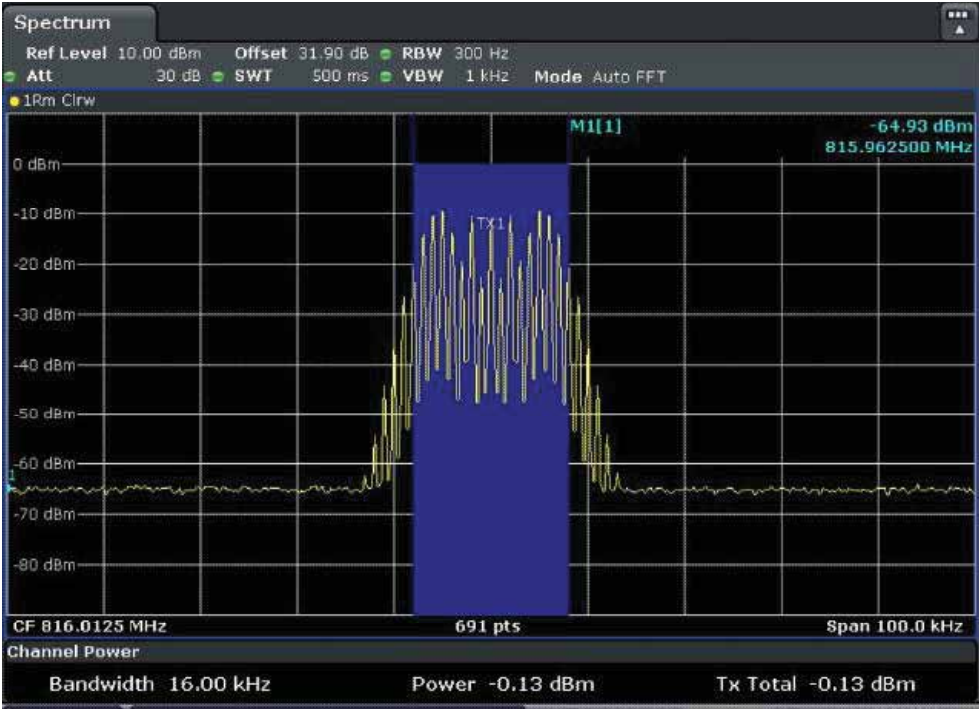
Low Frequency: 861.0125MHz



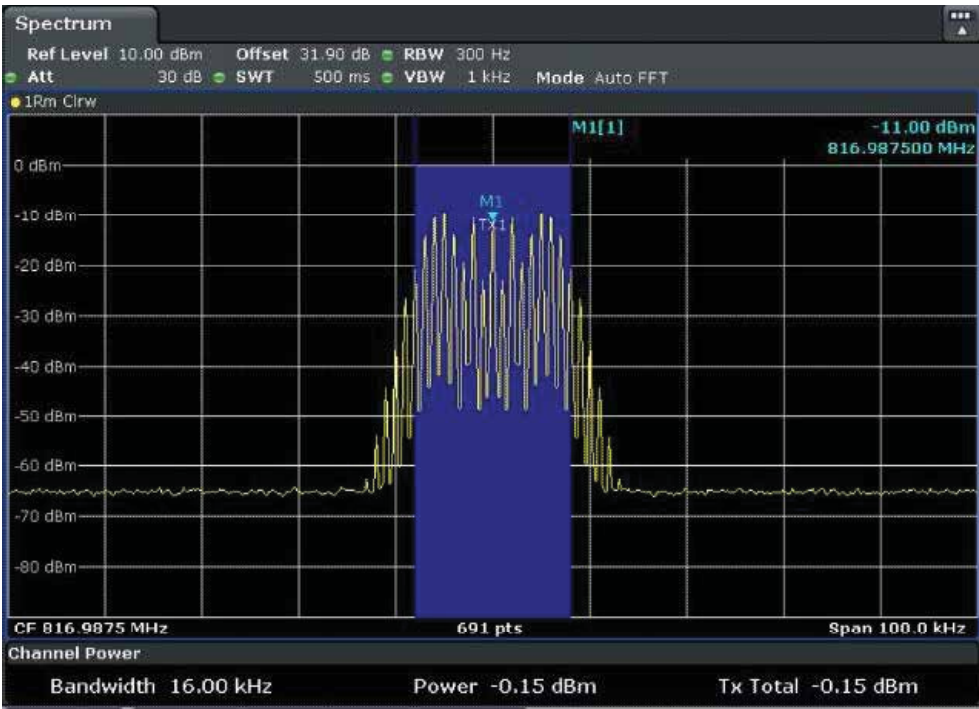
High Frequency: 861.9875MHz

———— The following blanks ————

11.2.3.1.4.2. Uplink



Low Frequency: 816.0125MHz

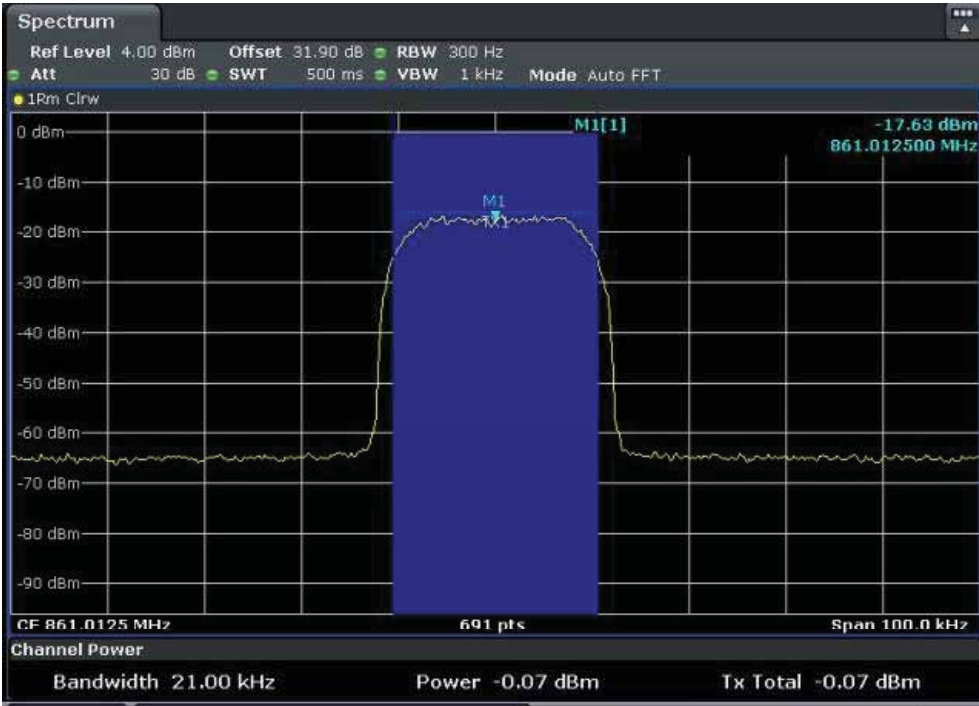


High Frequency: 816.9875MHz

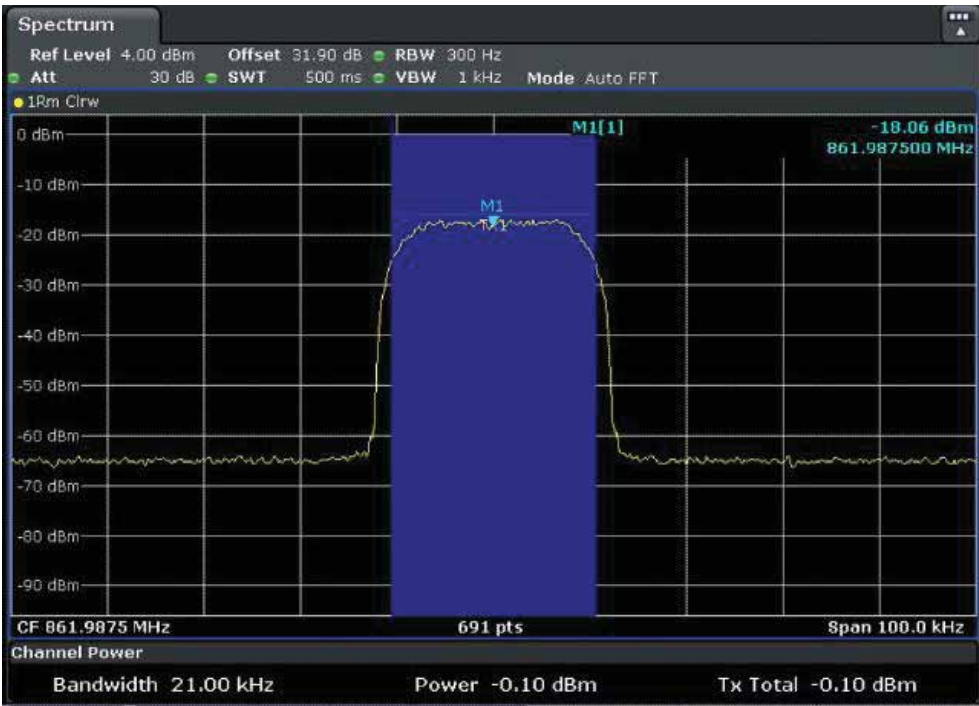
----- The following blanks -----

11.2.3.1.5. Tetra

11.2.3.1.5.1. Downlink



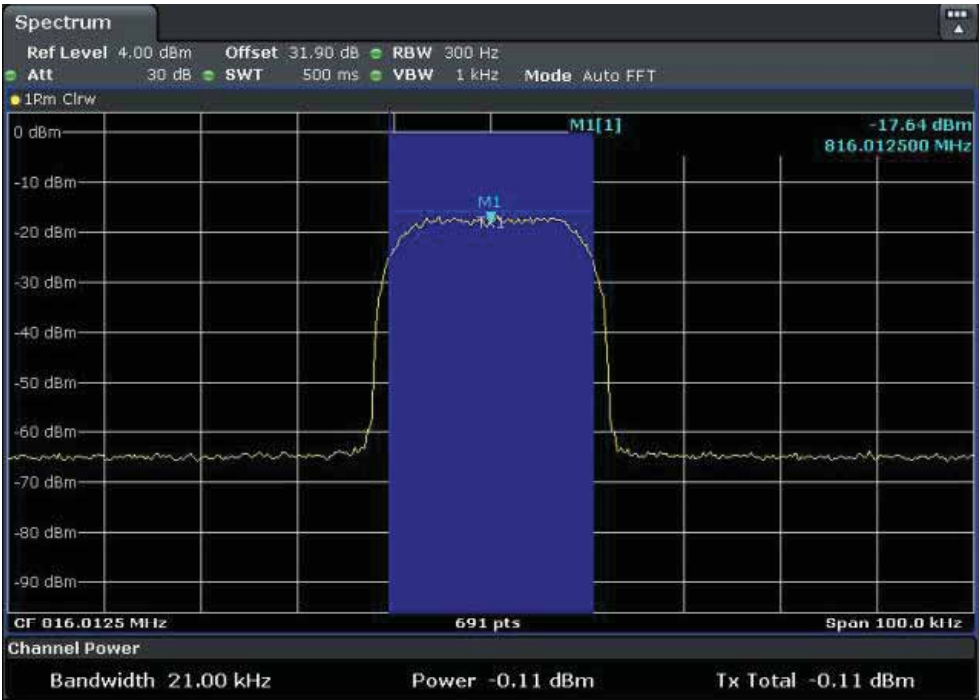
Low Frequency: 861.0125MHz



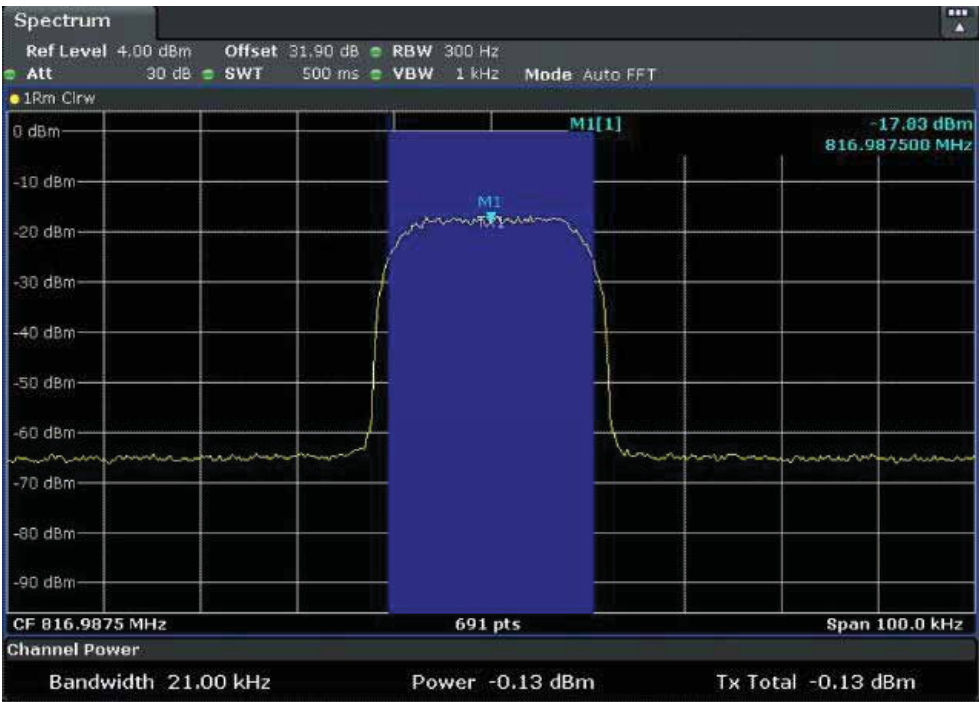
High Frequency: 861.9875MHz

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

11.2.3.1.5.2. Uplink



Low Frequency: 816.0125MHz



High Frequency: 816.9875MHz

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

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.⁶ 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

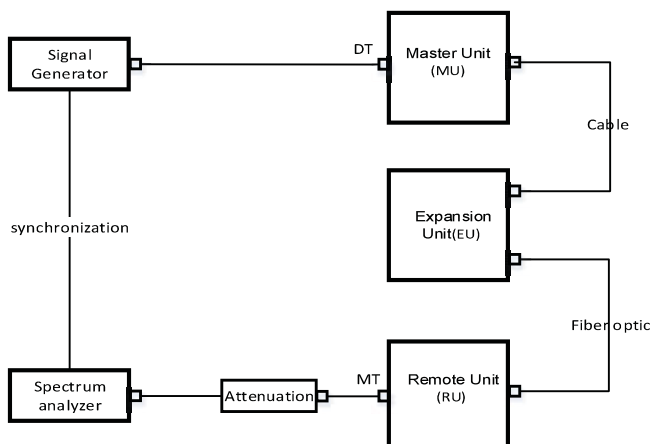


Figure 11.3-1 Downlink connection diagram

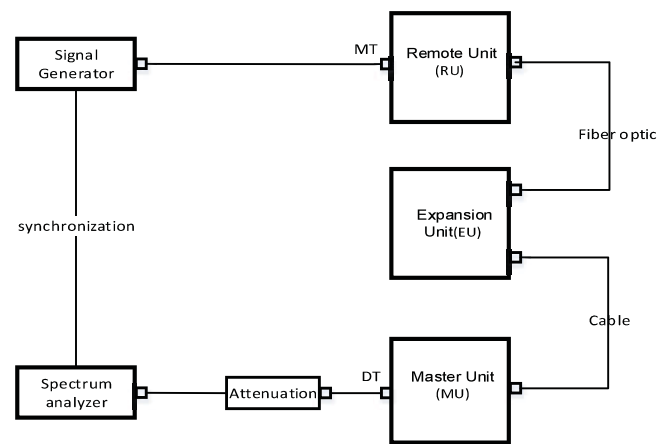


Figure 11.3-2 Uplink connection diagram

11.3.3. Test procedures

The AGC threshold is to be determined as follows.³

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.

———— The following blanks ————

11.3.4. Test results

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

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

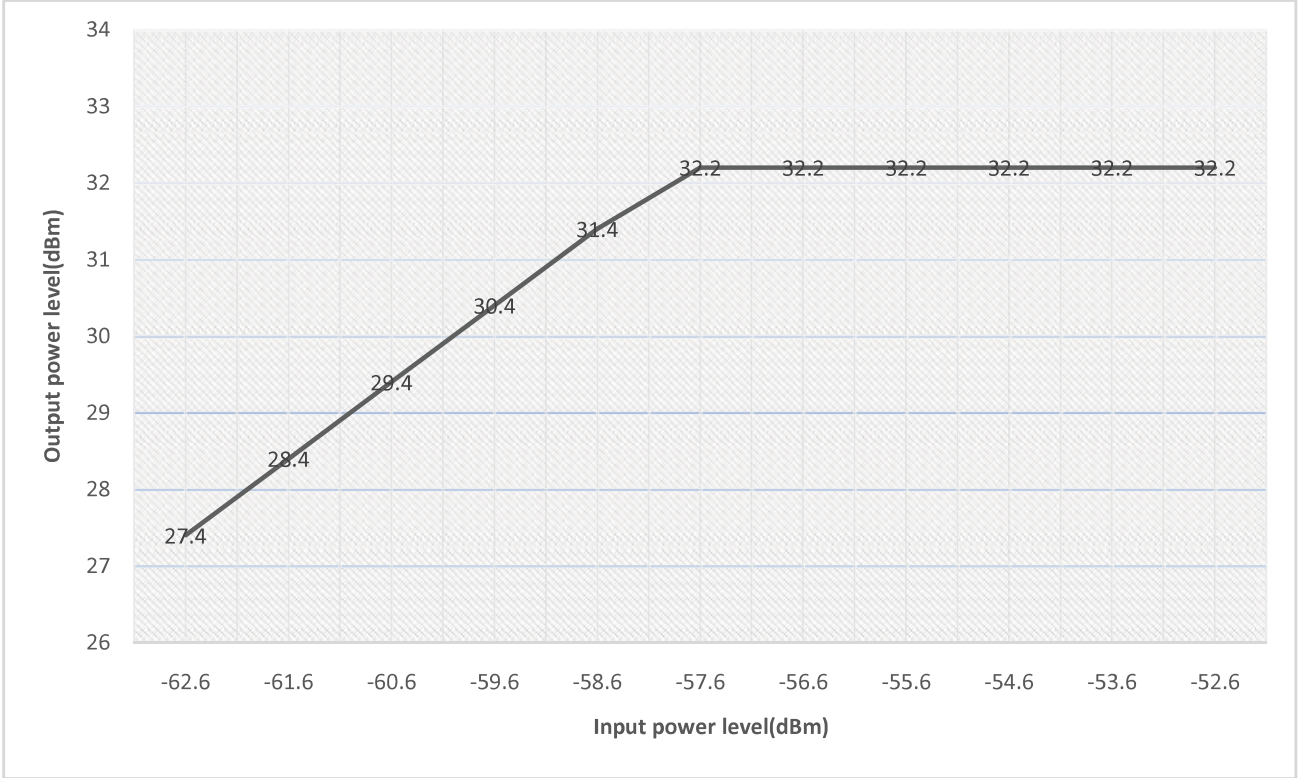
Supply Voltage: AC 110V, 50Hz

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

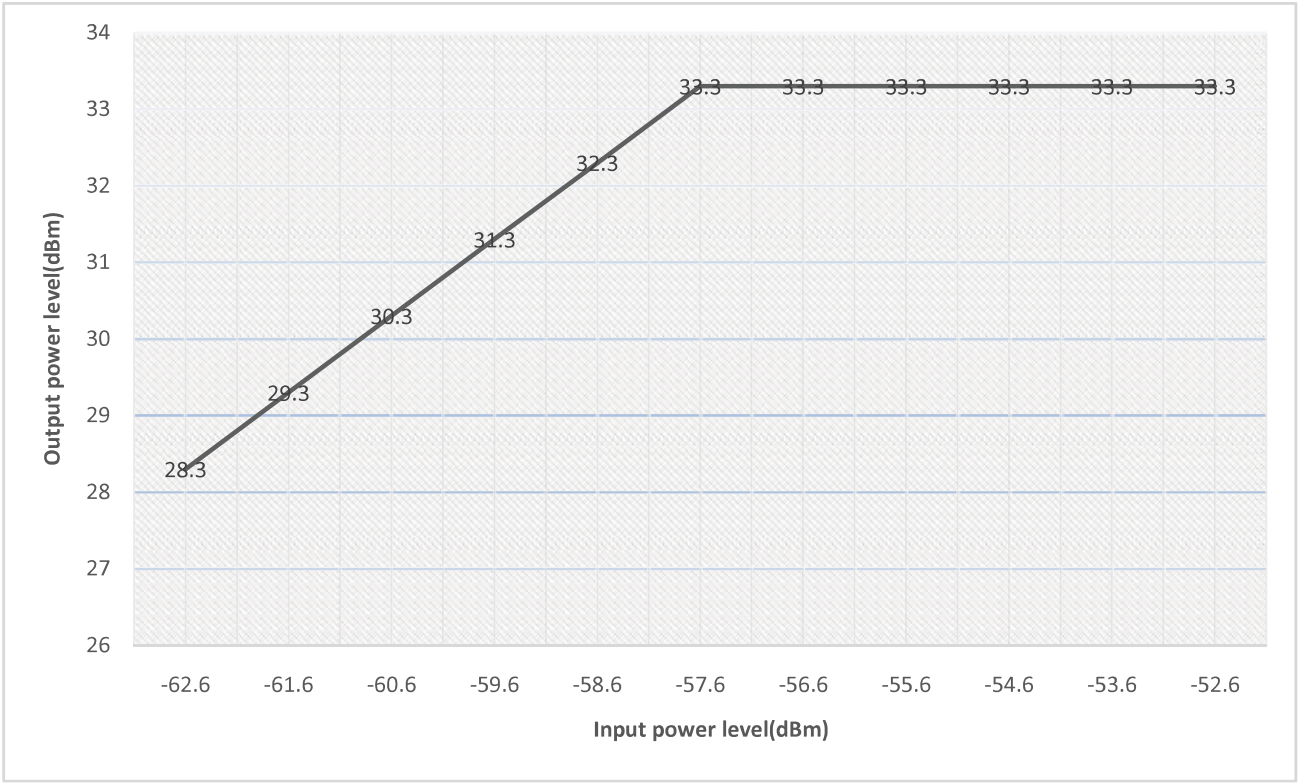
11.3.4.1.1. Downlink

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



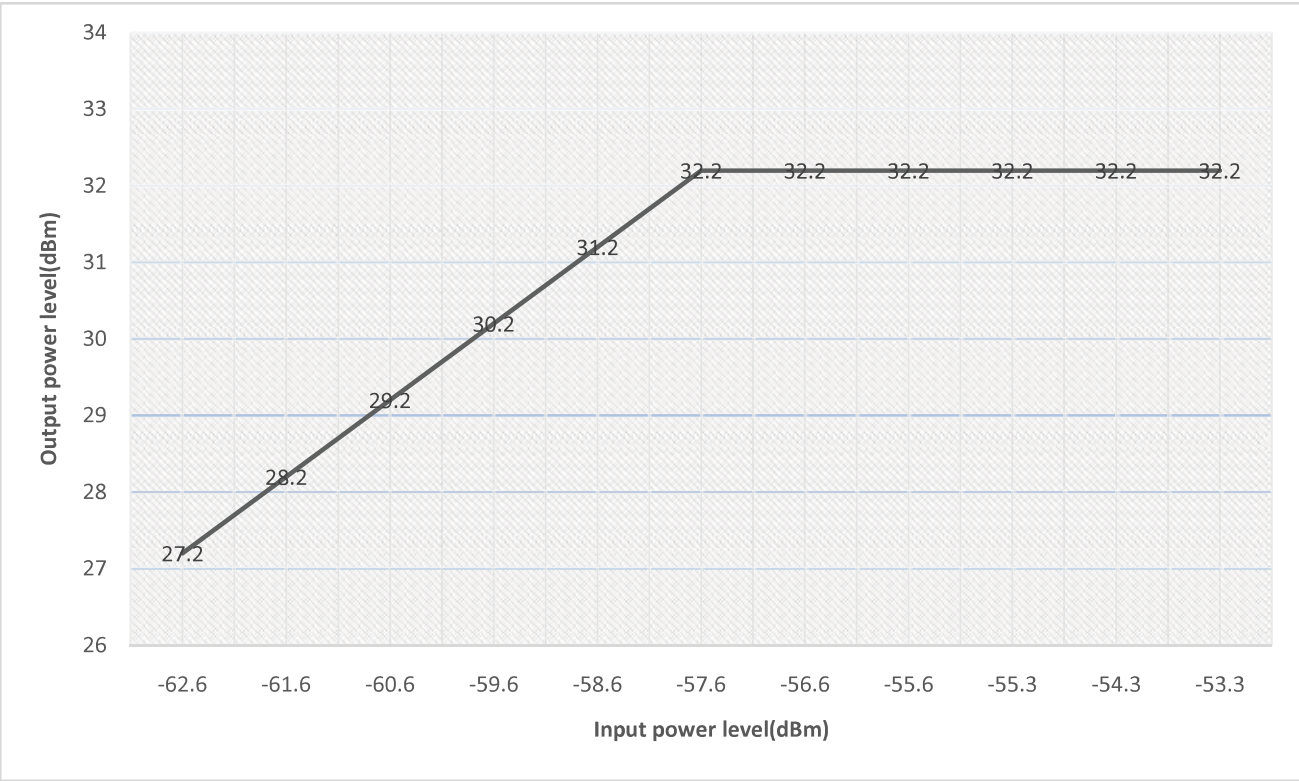
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
861.99375MHz	-60.8	1.8	-62.6	28.3
	-59.8	1.8	-61.6	29.3
	-58.8	1.8	-60.6	30.3
	-57.8	1.8	-59.6	31.3
	-56.8	1.8	-58.6	32.3
	-55.8	1.8	-57.6	33.3
	-54.8	1.8	-56.6	33.3
	-53.8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



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

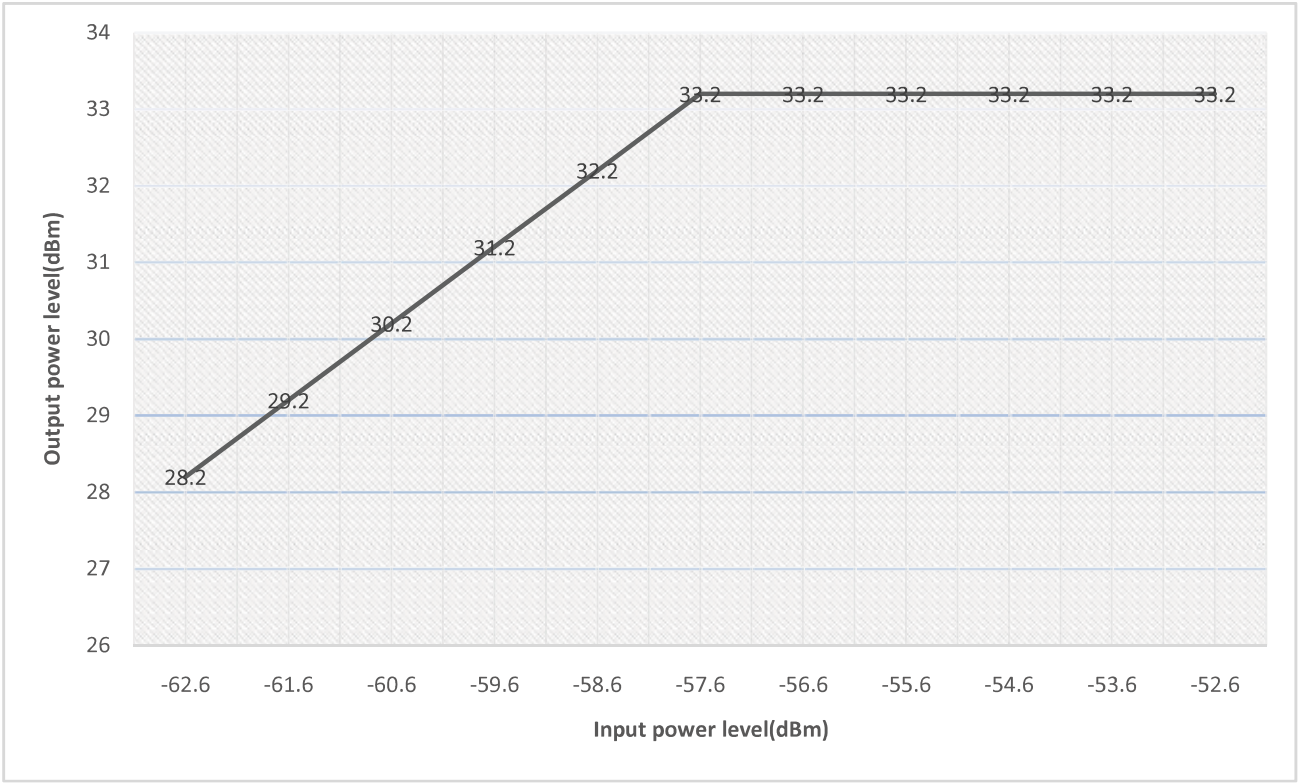
11.3.4.1.1.2. P25 Phase II(H-DQPSK)

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



———— The following blanks ————

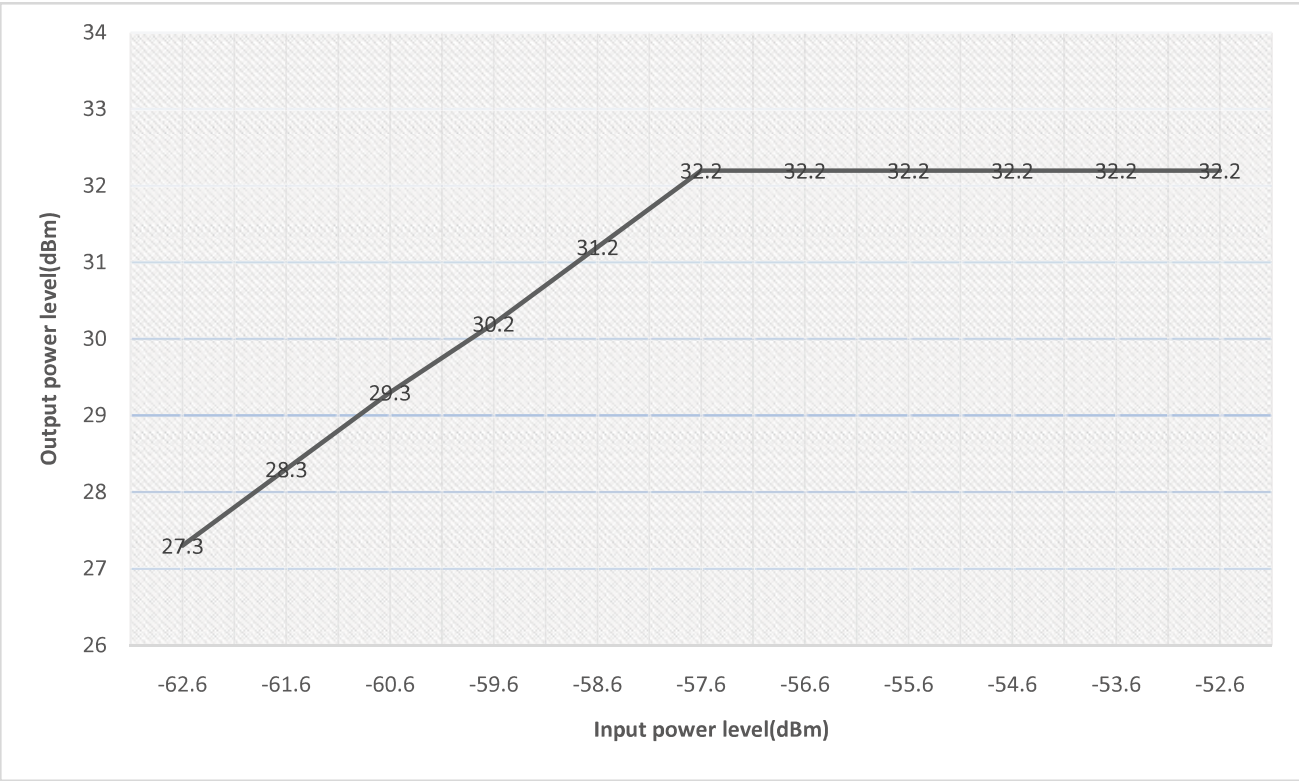
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
861.99375MHz	-60.8	1.8	-62.6	28.2
	-59.8	1.8	-61.6	29.2
	-58.8	1.8	-60.6	30.2
	-57.8	1.8	-59.6	31.2
	-56.8	1.8	-58.6	32.2
	-55.8	1.8	-57.6	33.2
	-54.8	1.8	-56.6	33.2
	-53.8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



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

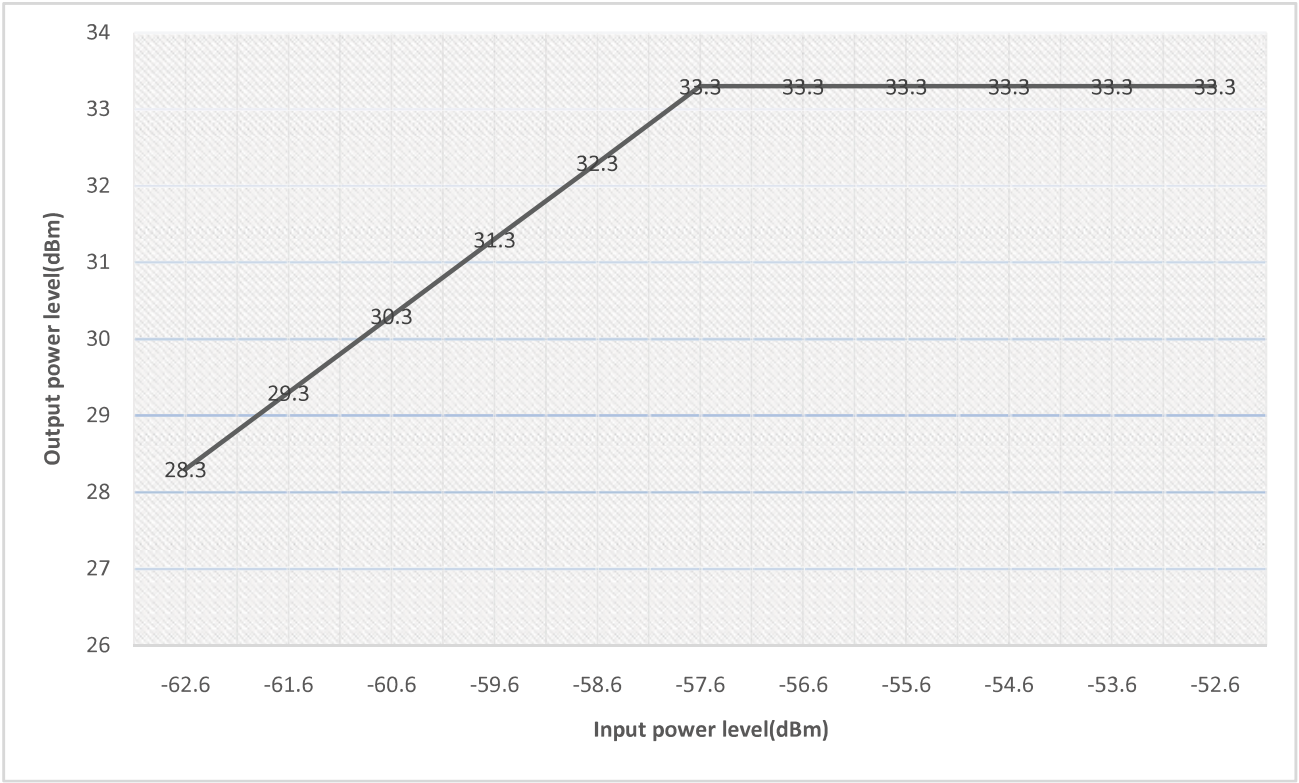
11.3.4.1.1.3. DMR

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



———— The following blanks ————

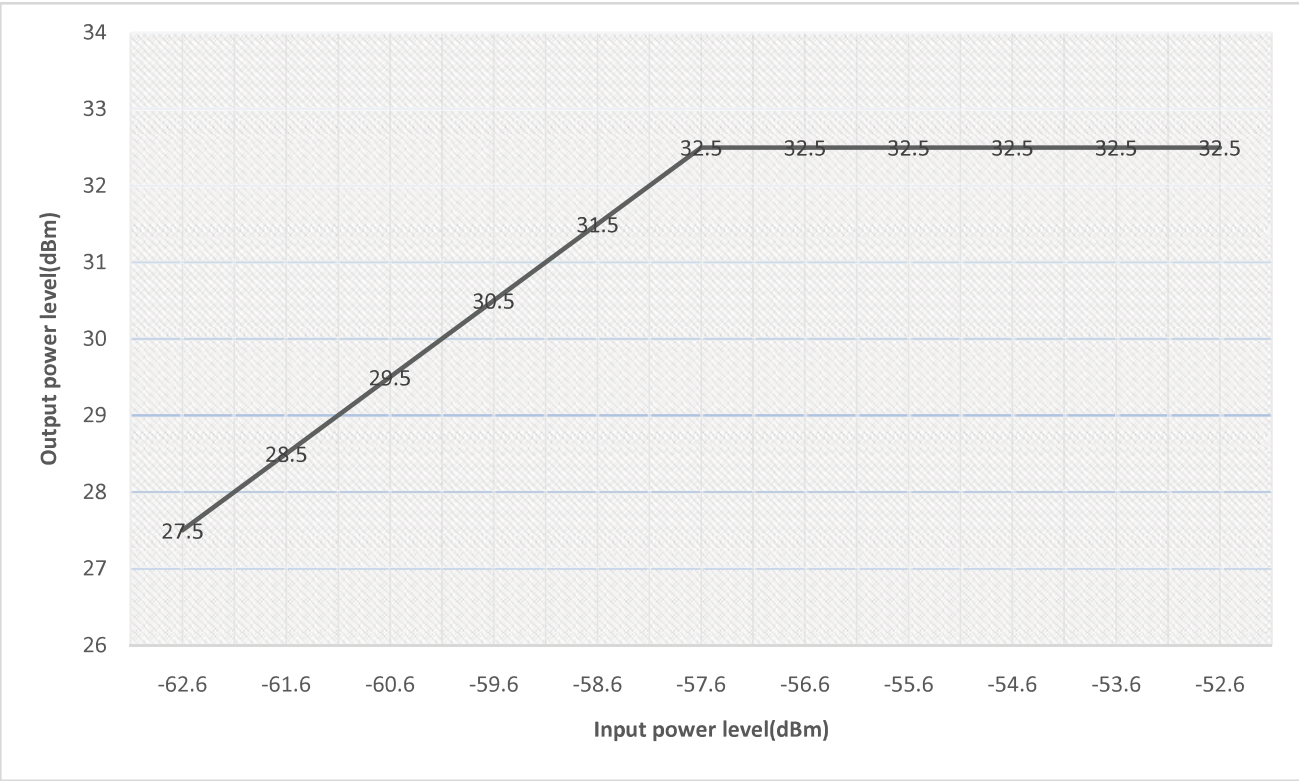
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
861.99375MHz	-60.8	1.8	-62.6	28.3
	-59.8	1.8	-61.6	29.3
	-58.8	1.8	-60.6	30.3
	-57.8	1.8	-59.6	31.3
	-56.8	1.8	-58.6	32.3
	-55.8	1.8	-57.6	33.3
	-54.8	1.8	-56.6	33.3
	-53.8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



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

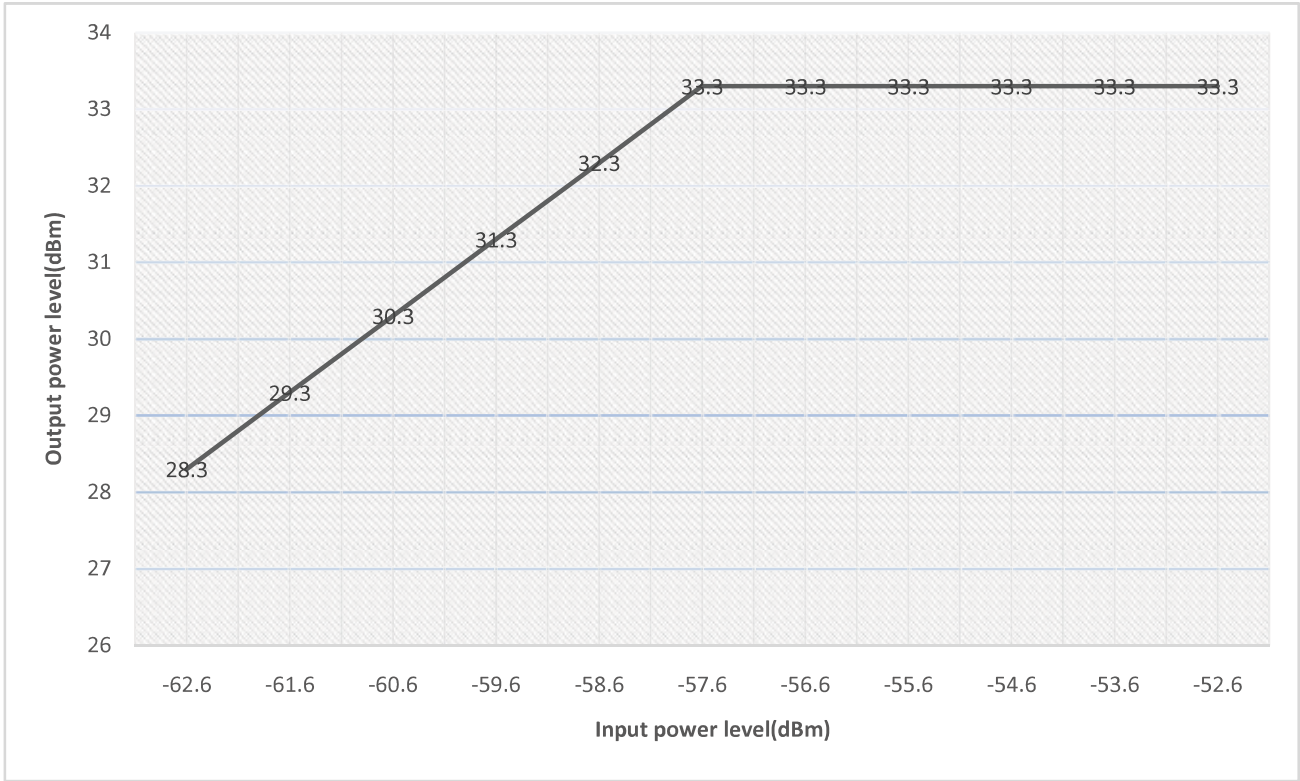
11.3.4.1.1.4. Analog FM

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



———— The following blanks ————

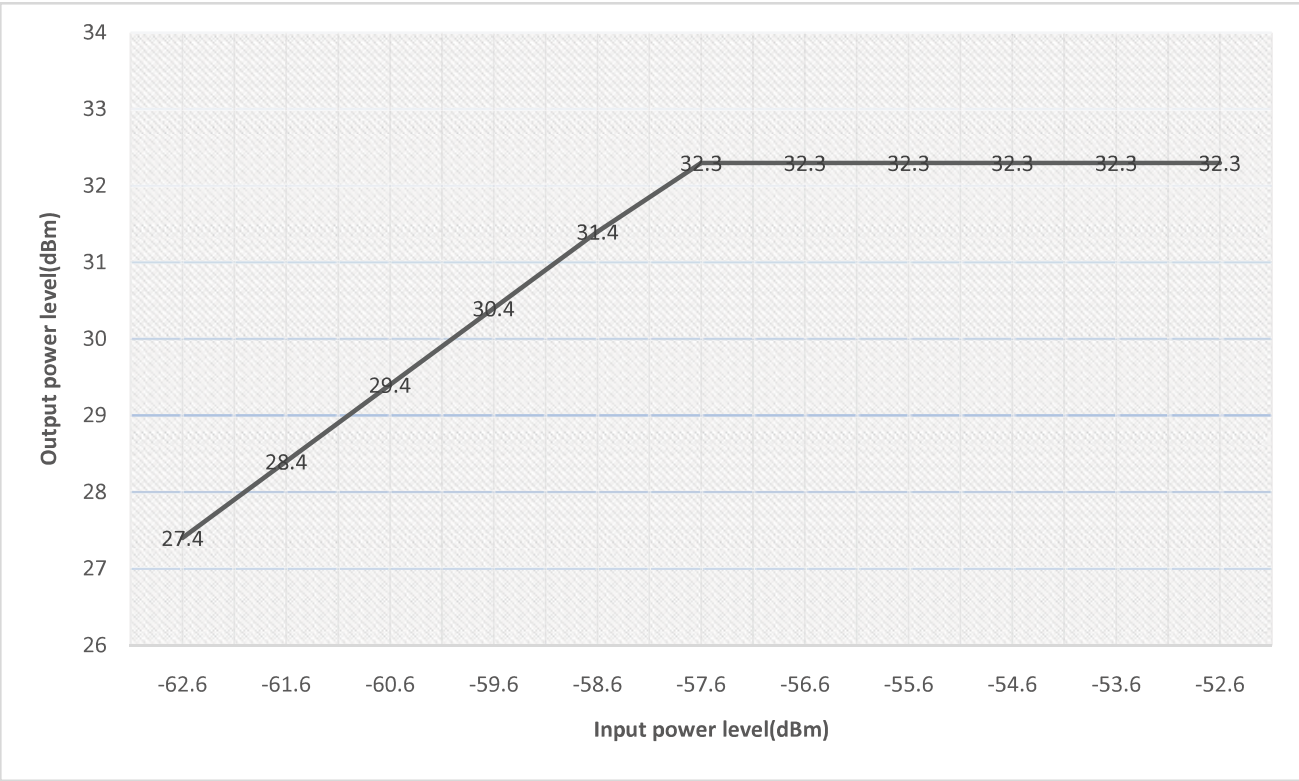
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
861.9875MHz	-60.8	1.8	-62.6	28.3
	-59.8	1.8	-61.6	29.3
	-58.8	1.8	-60.6	30.3
	-57.8	1.8	-59.6	31.3
	-56.8	1.8	-58.6	32.3
	-55.8	1.8	-57.6	33.3
	-54.8	1.8	-56.6	33.3
	-53.8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



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

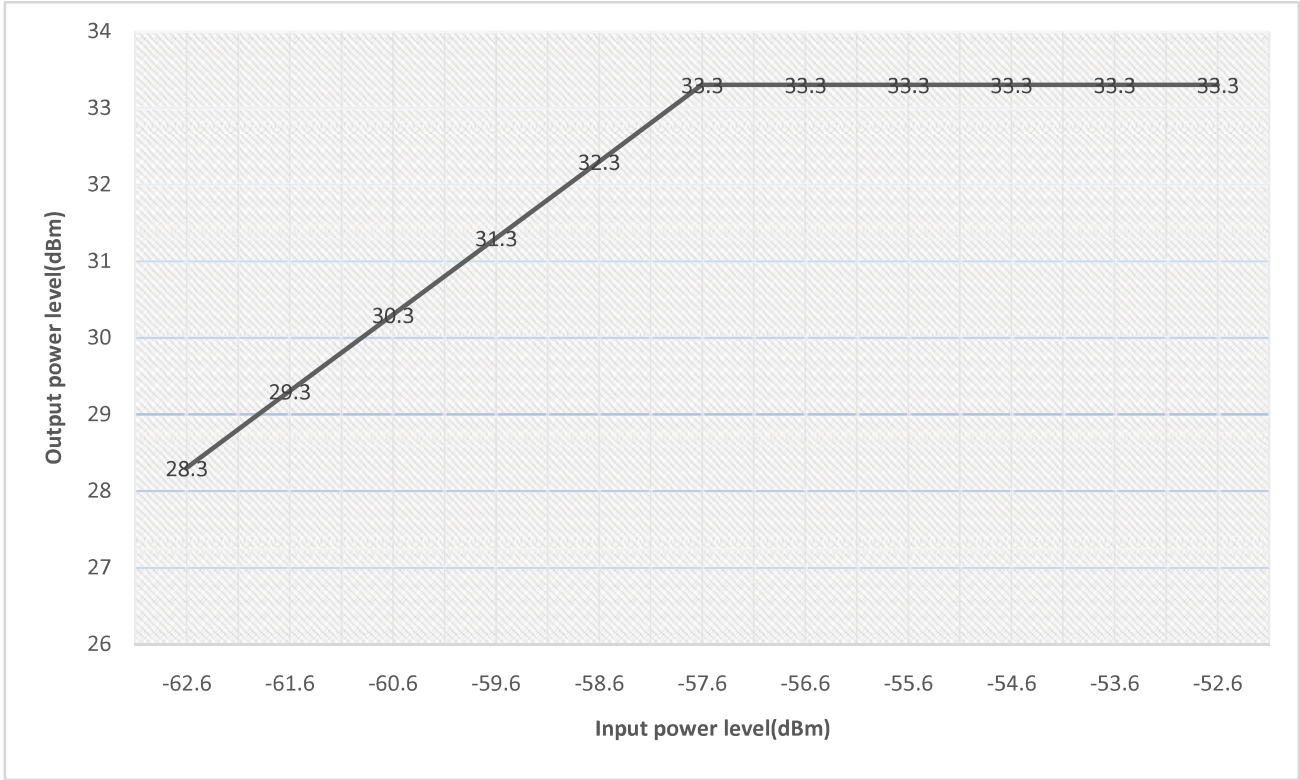
11.3.4.1.1.5. Tetra

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

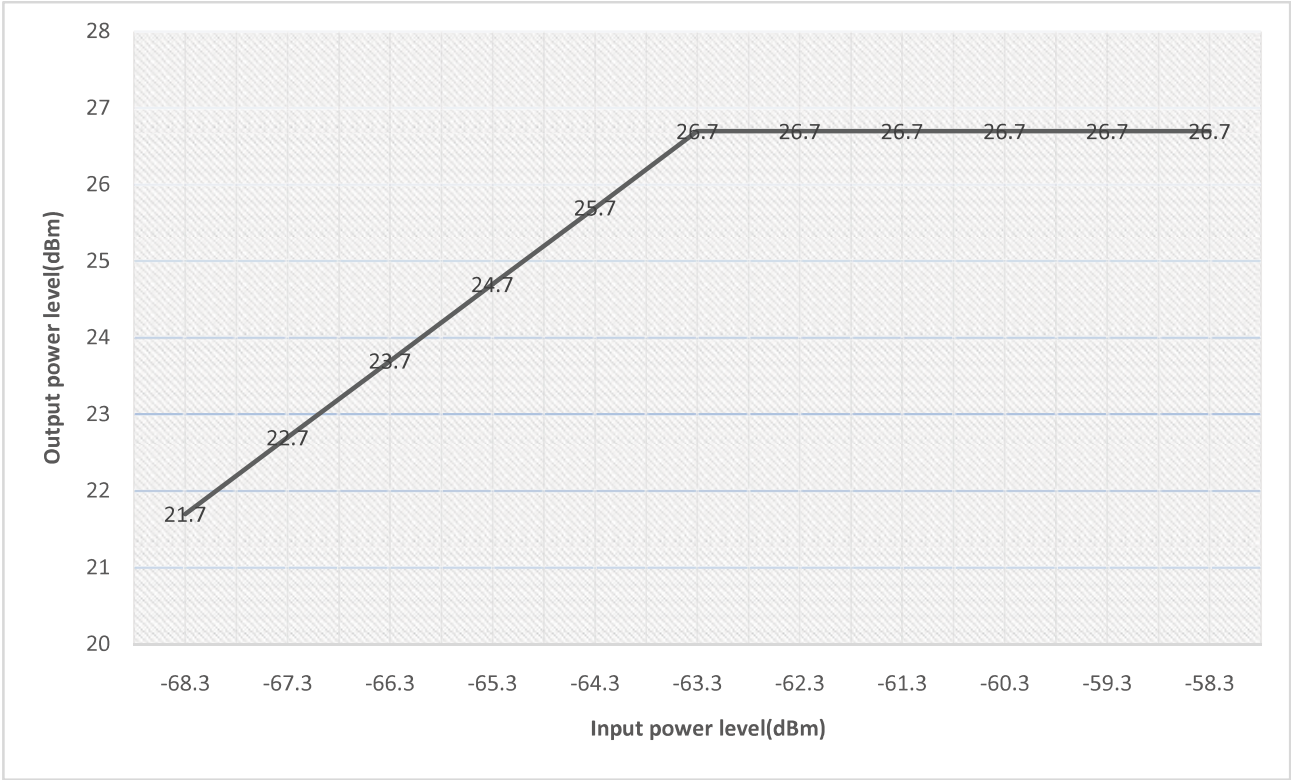


----- The following blanks -----

11.3.4.1.2. Uplink

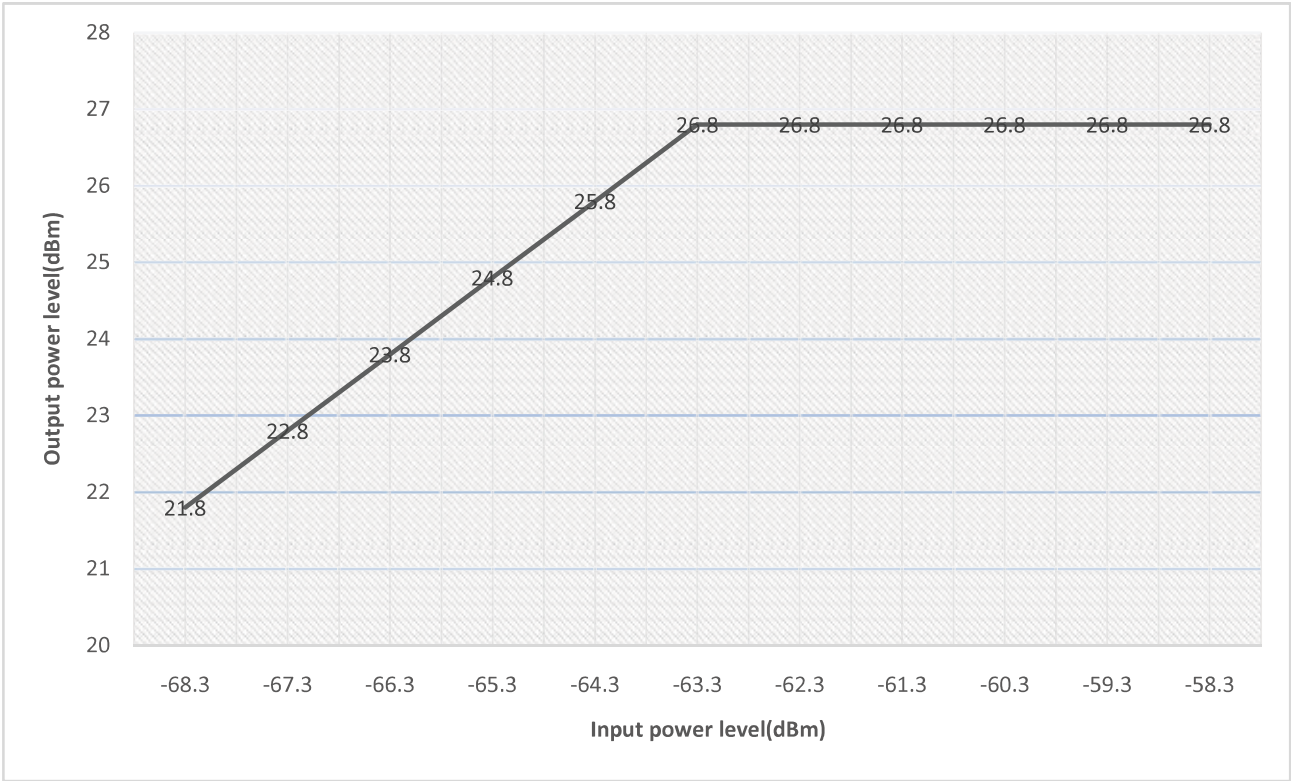
11.3.4.1.2.1. P25 Phase I(C4FM)

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



———— The following blanks ————

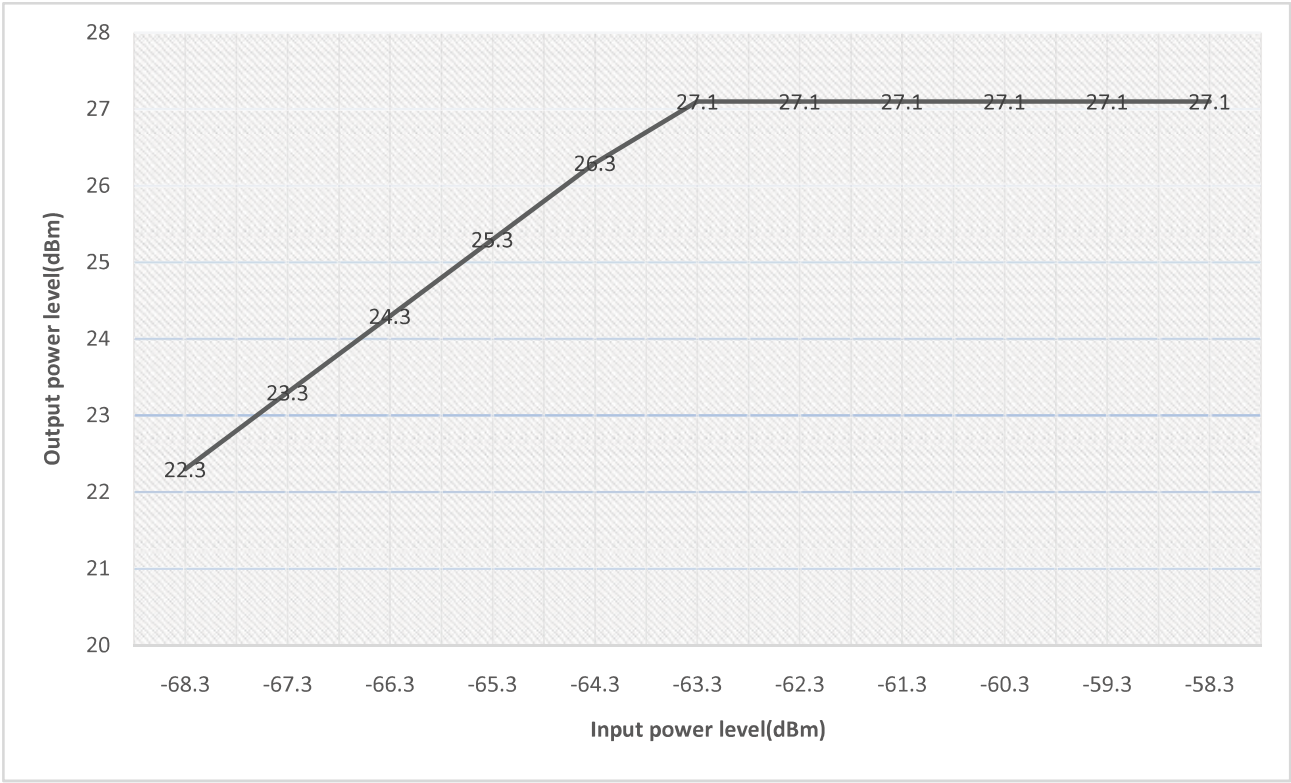
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
816.99375MHz	-67.3	1.0	-68.3	21.8
	-66.3	1.0	-67.3	22.8
	-65.3	1.0	-66.3	23.8
	-64.3	1.0	-65.3	24.8
	-63.3	1.0	-64.3	25.8
	-62.3	1.0	-63.3	26.8
	-61.3	1.0	-62.3	26.8
	-60.3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



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

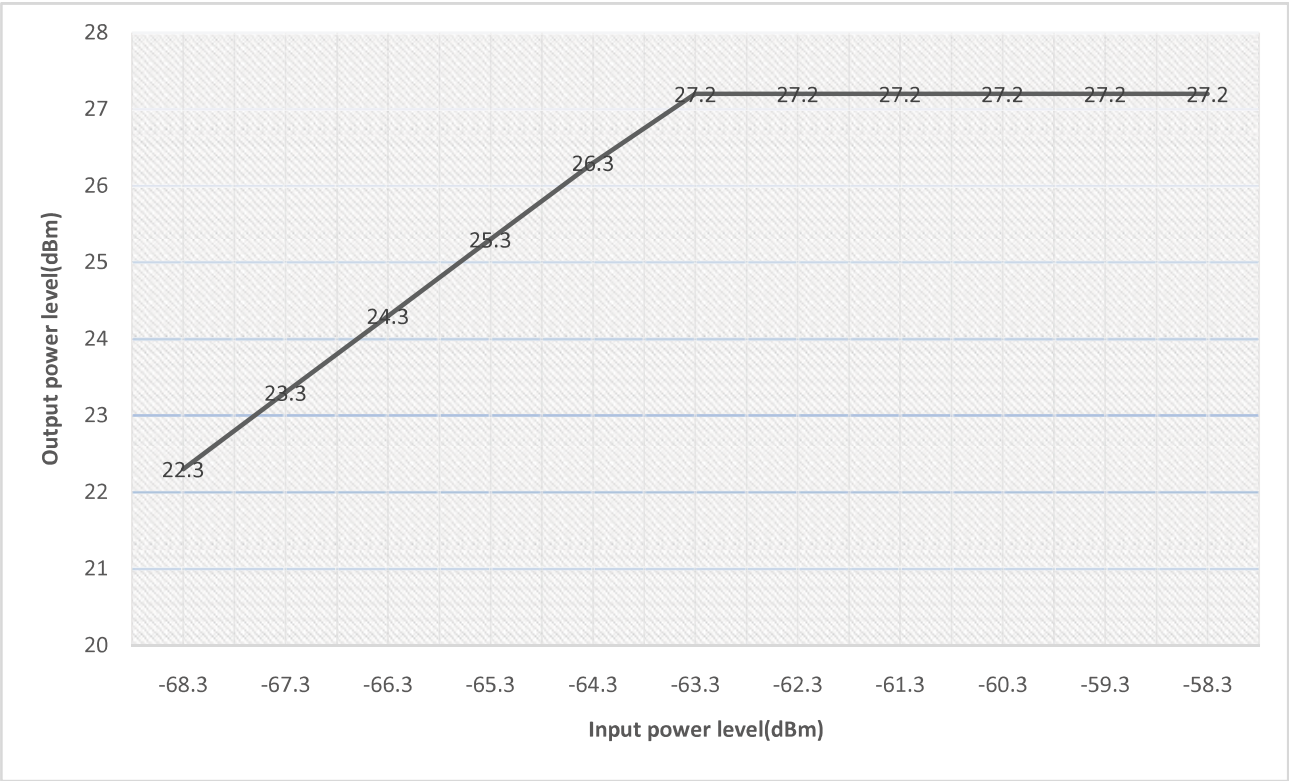
11.3.4.1.2.2. P25 Phase II(H-DQPSK)

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



———— The following blanks —————

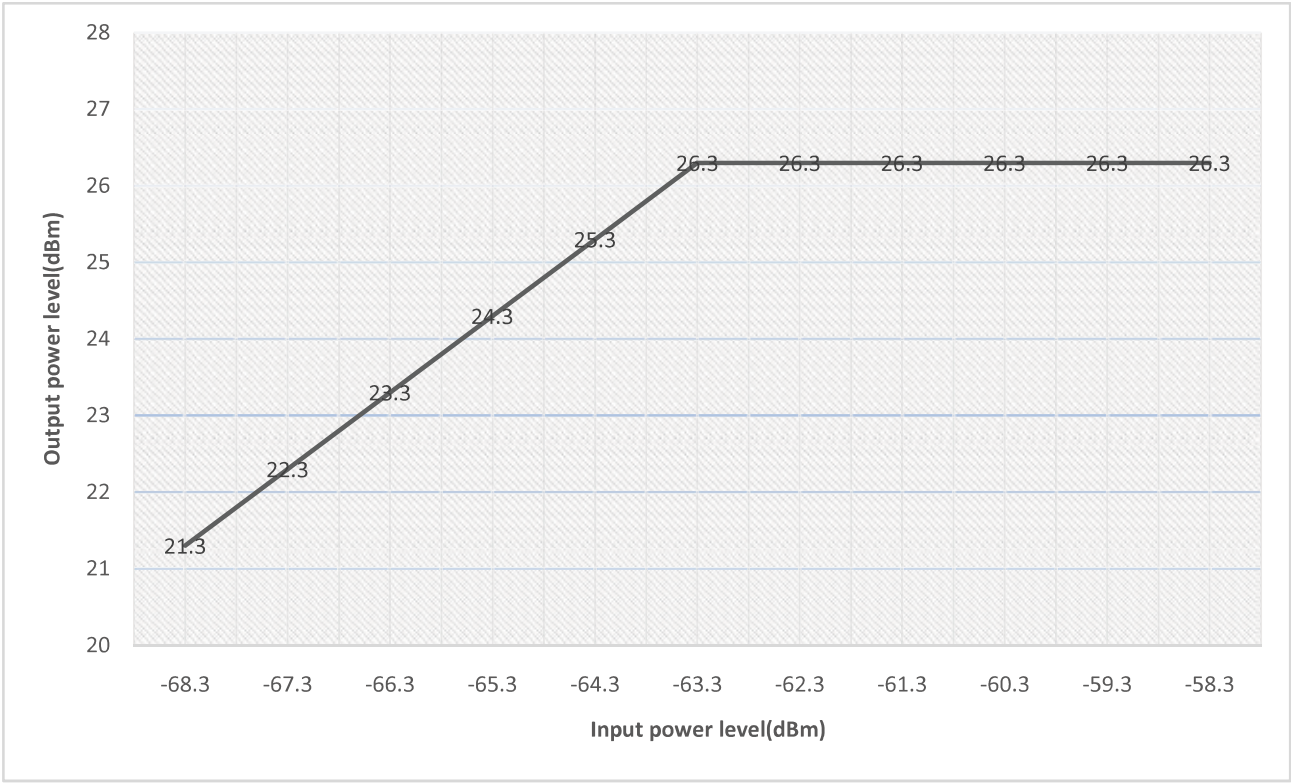
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
816.99375MHz	-67.3	1.0	-68.3	22.3
	-66.3	1.0	-67.3	23.3
	-65.3	1.0	-66.3	24.3
	-64.3	1.0	-65.3	25.3
	-63.3	1.0	-64.3	26.3
	-62.3	1.0	-63.3	27.2
	-61.3	1.0	-62.3	27.2
	-60.3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

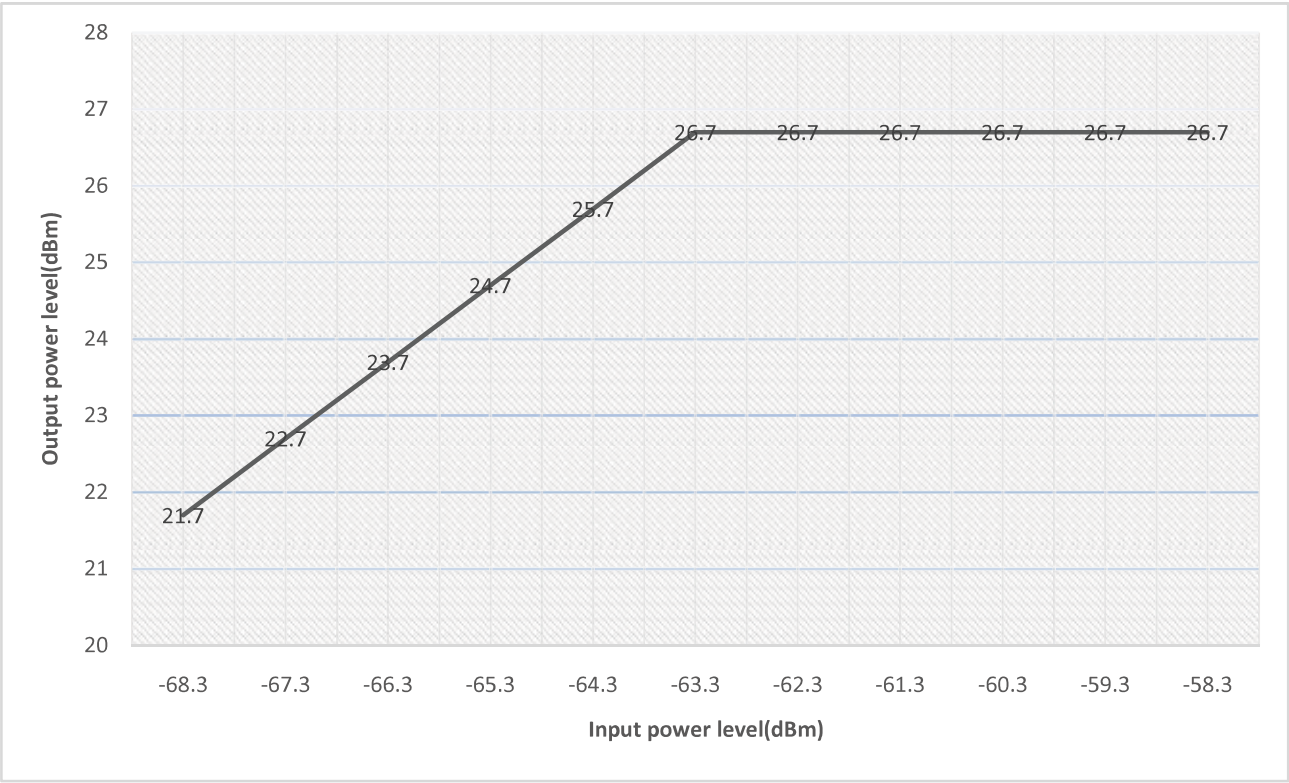
11.3.4.1.2.3. DMR

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 —————

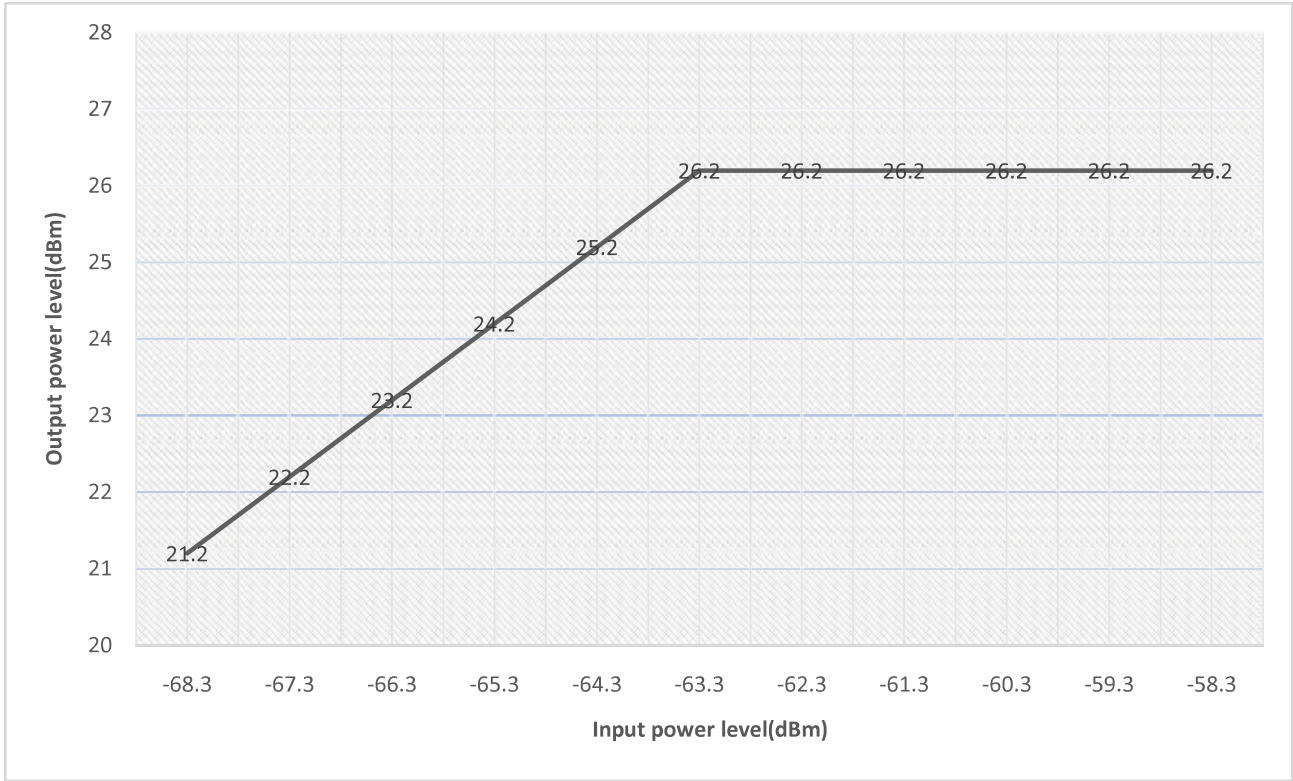
Test frequency	Signal output power (dBm)	EUT Input cable loss (dB)	EUT Corrected Input power (dBm)	EUT Corrected Output power (dBm)
816.99375MHz	-67.3	1.0	-68.3	21.7
	-66.3	1.0	-67.3	22.7
	-65.3	1.0	-66.3	23.7
	-64.3	1.0	-65.3	24.7
	-63.3	1.0	-64.3	25.7
	-62.3	1.0	-63.3	26.7
	-61.3	1.0	-62.3	26.7
	-60.3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

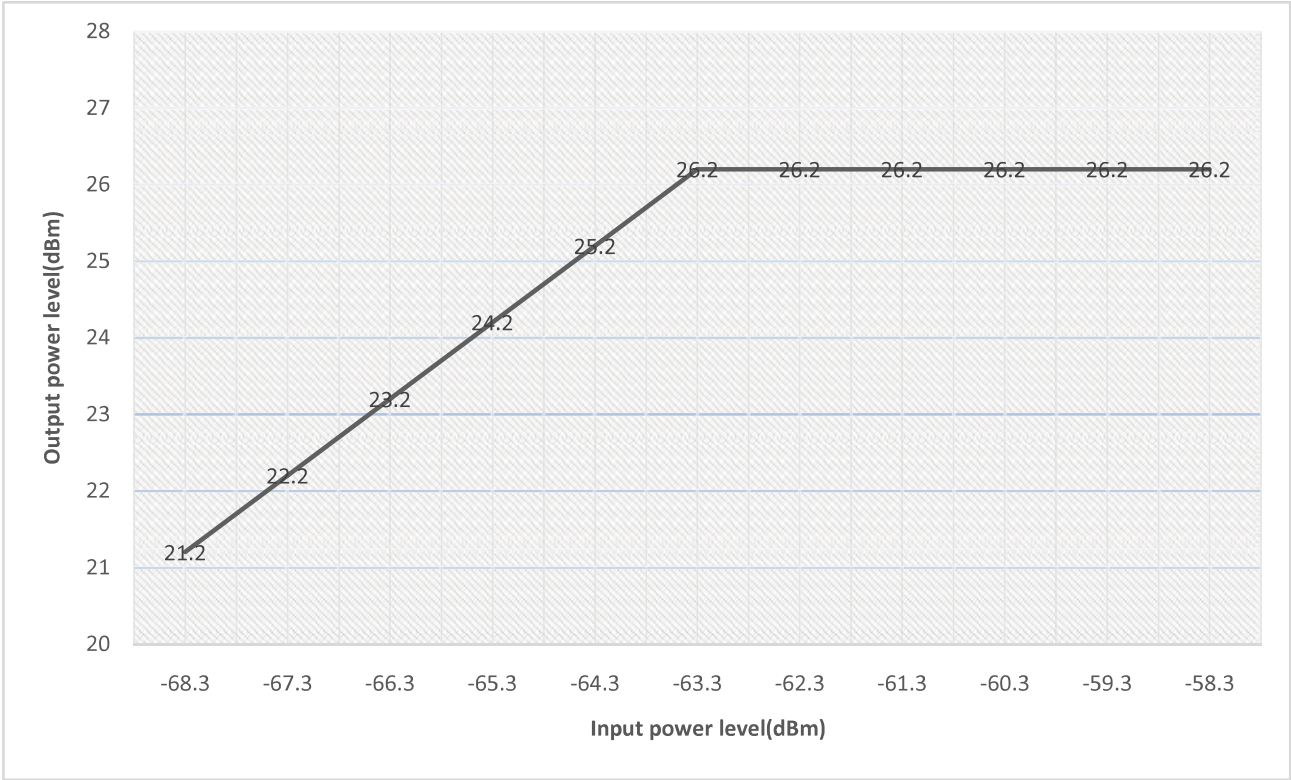
11.3.4.1.2.4. Analog FM

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 -----