

11.8.4. 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

11.8.4.1. 800MHz Band (Downlink: 861MHz ~862MHz, Uplink: 816MHz ~ 817MHz)

11.8.4.1.1. Downlink Transmit

Test status	Test frequency	Intermodulaiton product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:861.00625MHz f2:861.01875MHz	-13.0	-25.5	12.5	PASS
	High frequency: f1:861.98125MHz f2:861.99375MHz	-13.0	-21.2	8.2	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:861.00625MHz f2:861.01875MHz	-13.0	-26.1	13.1	PASS
	High frequency: f1:861.98125MHz f2:861.99375MHz	-13.0	21.2	8.2	PASS
(2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:861.0125MHz f2:861.0375MHz	-13.0	-22.3	9.3	PASS
	High frequency: f1:861.9625MHz f2:861.9875MHz	-13.0	-22.3	9.3	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:861.0125MHz f2:861.0375MHz	-13.0	-22.4	9.4	PASS
	High frequency: f1:861.9625MHz f2:861.9875MHz	-13.0	-21.8	8.8	PASS
NOTE 1:Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

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11.8.4.1.2. Uplink Transmit

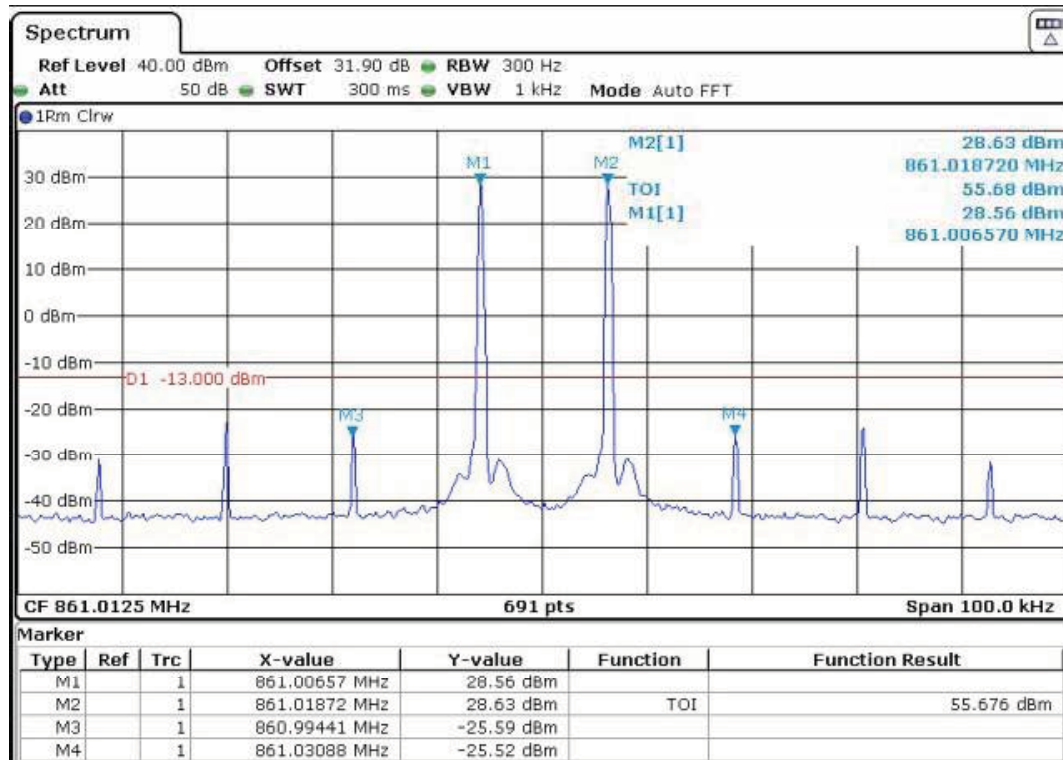
Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:816.00625MHz f2:816.01875MHz	-13.0	-20.0	7.0	PASS
	High frequency: f1:816.98125MHz f2:816.99375MHz	-13.0	-20.8	7.8	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:816.00625MHz f2:816.01875MHz	-13.0	-20.0	7.0	PASS
	High frequency: f1:816.98125MHz f2:816.99375MHz	-13.0	-20.9	7.9	PASS
(2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:816.0125MHz f2:816.0375MHz	-13.0	-20.4	7.4	PASS
	High frequency: f1:816.9625MHz f2:816.9875MHz	-13.0	-21.1	8.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:816.0125MHz f2:816.0375MHz	-13.0	-20.4	7.4	PASS
	High frequency: f1:816.9625MHz f2:816.9875MHz	-13.0	-21.7	8.7	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

———— The following blanks ————

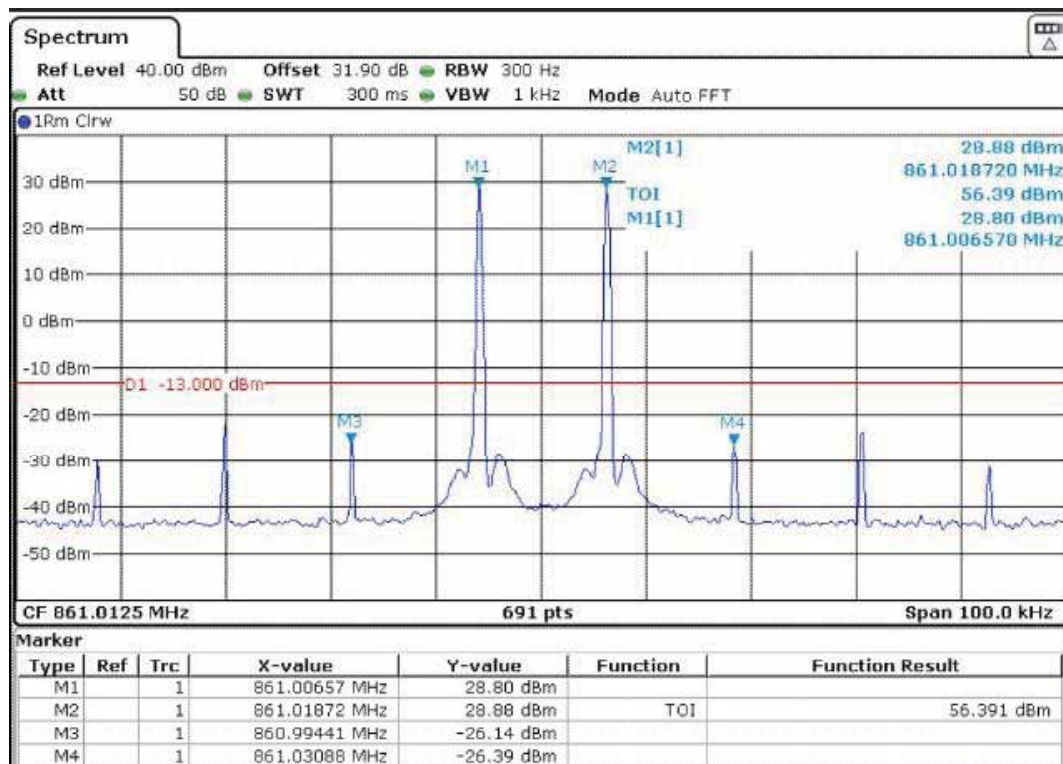
11.8.5. Test screenshot

11.8.5.1. Channel bandwidth 12.5kHz

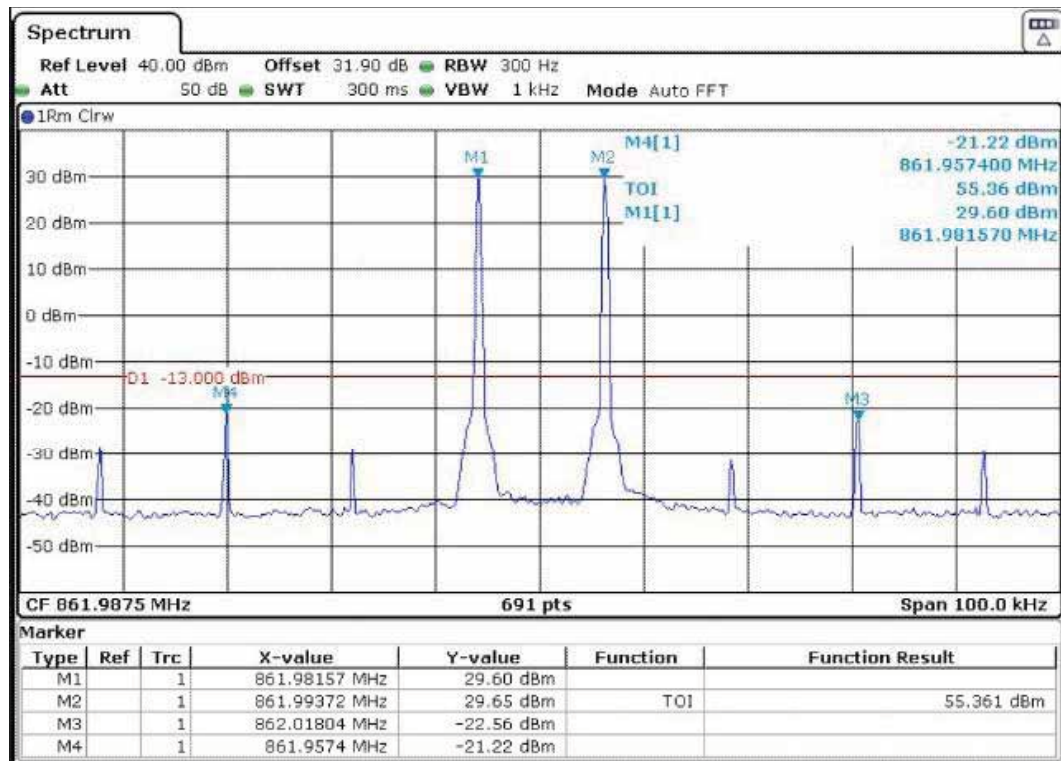
11.8.5.1.1. Downlink



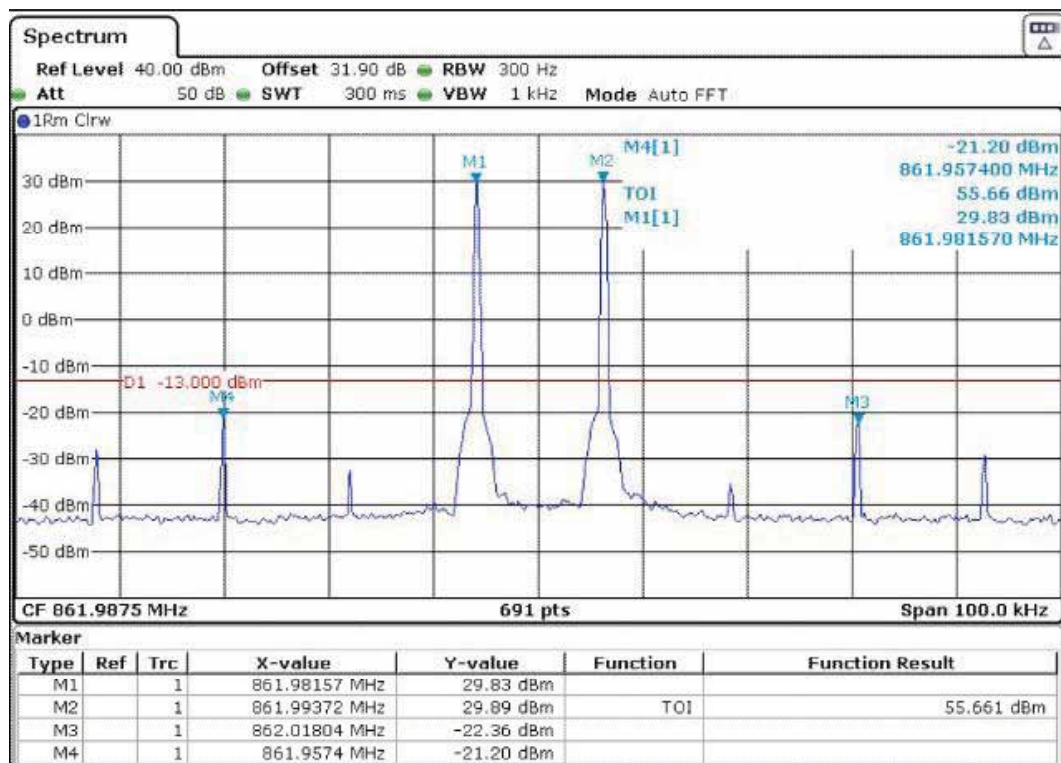
Low Frequency and with the ALC threshold level



Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold

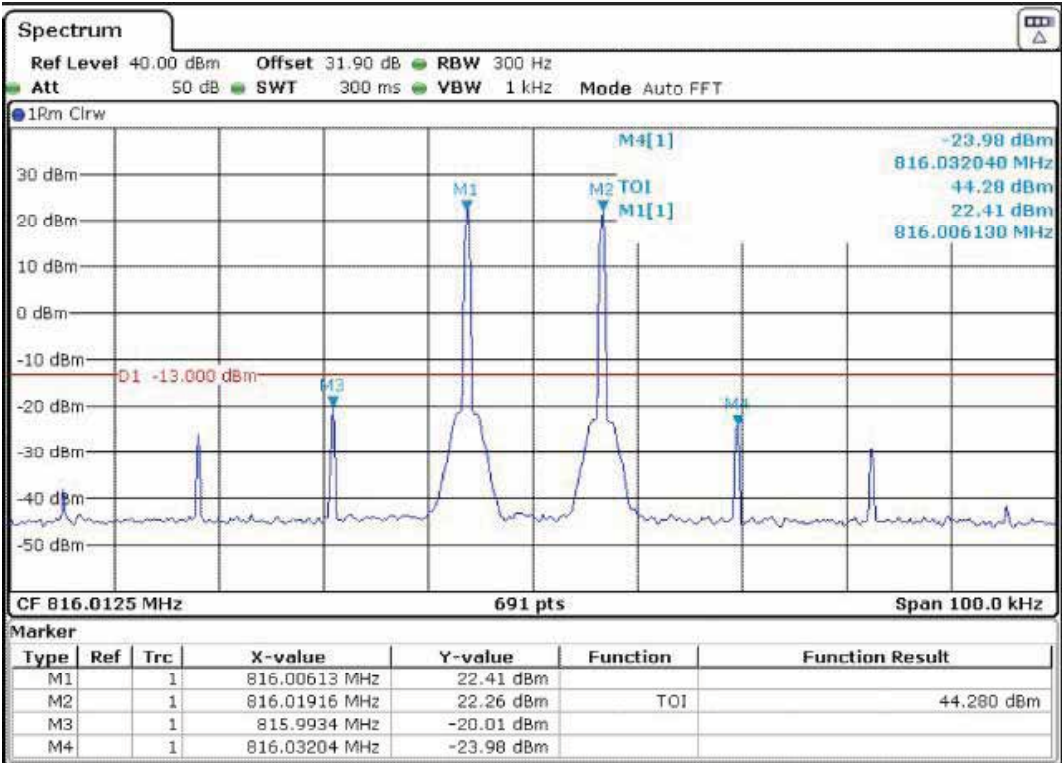


High Frequency and with the ALC threshold level

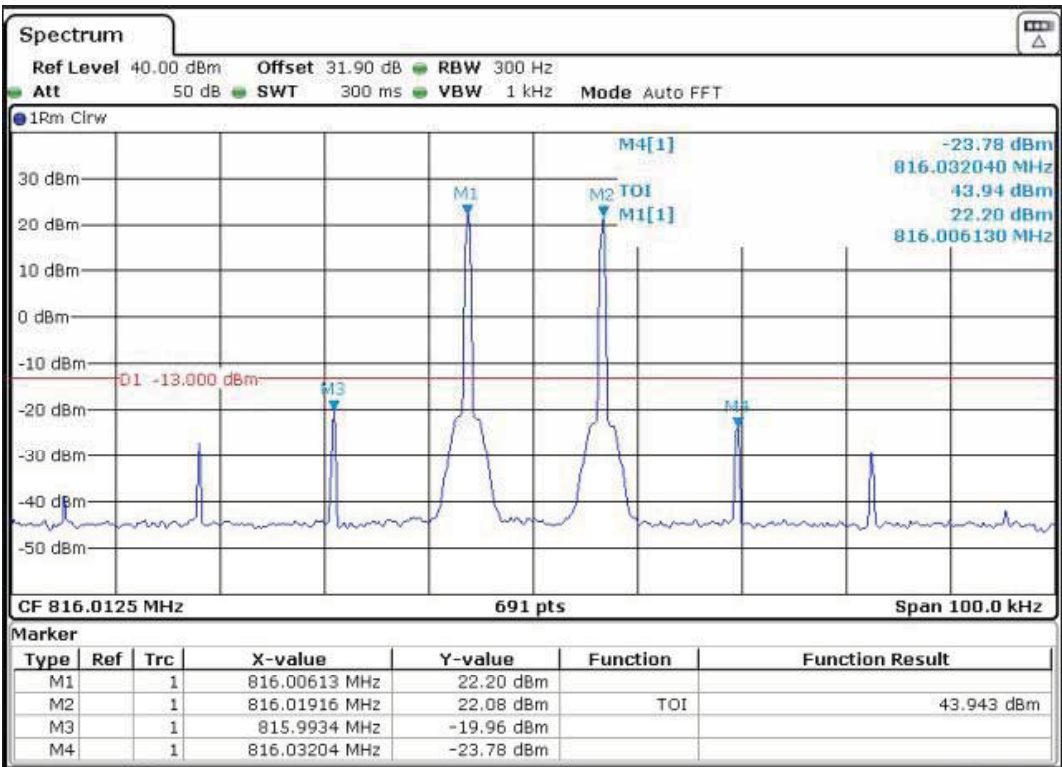


High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

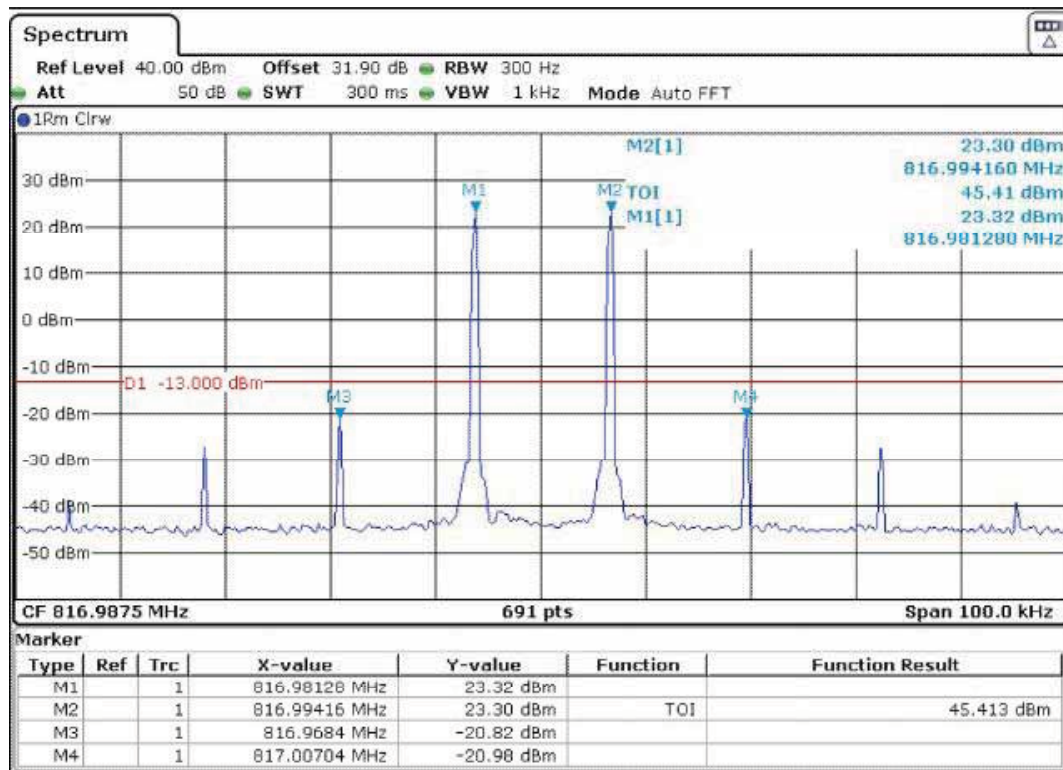
11.8.5.1.2. Uplink



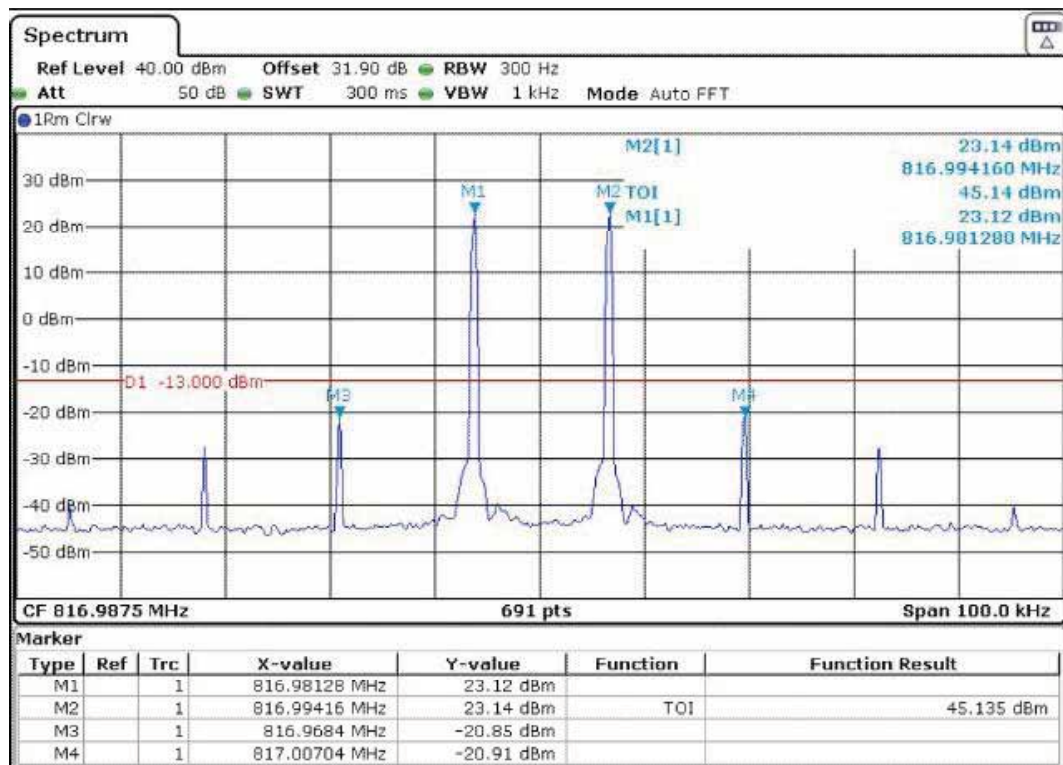
Low Frequency and with the ALC threshold level



Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



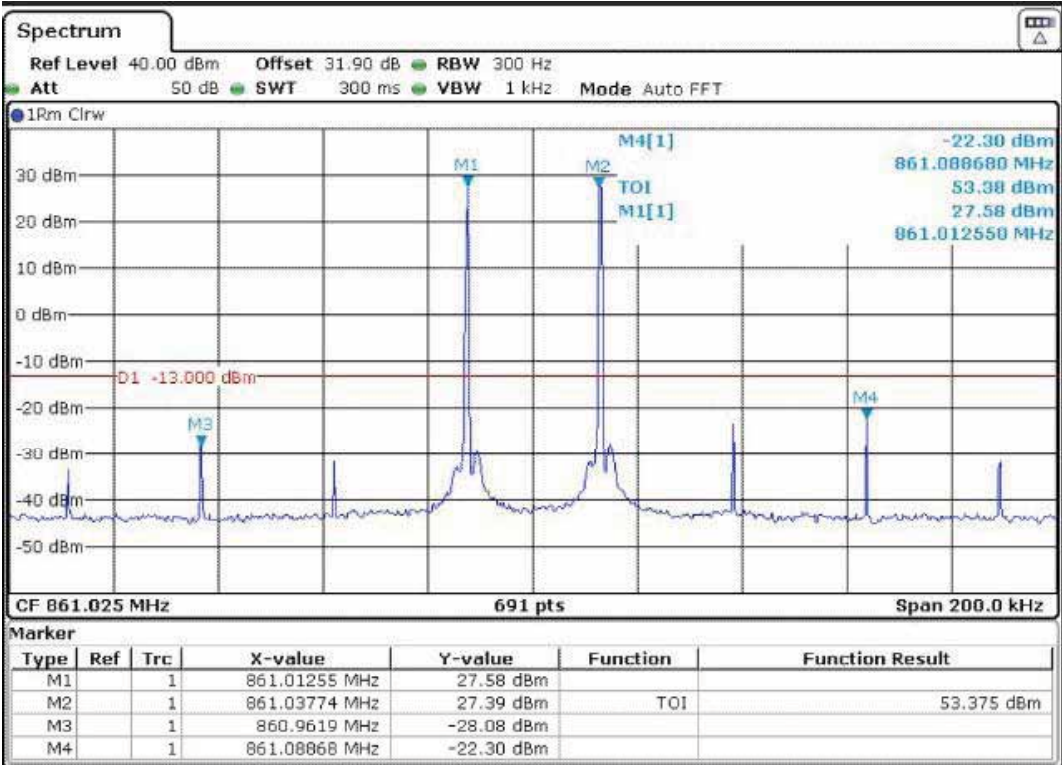
High Frequency and with the ALC threshold level



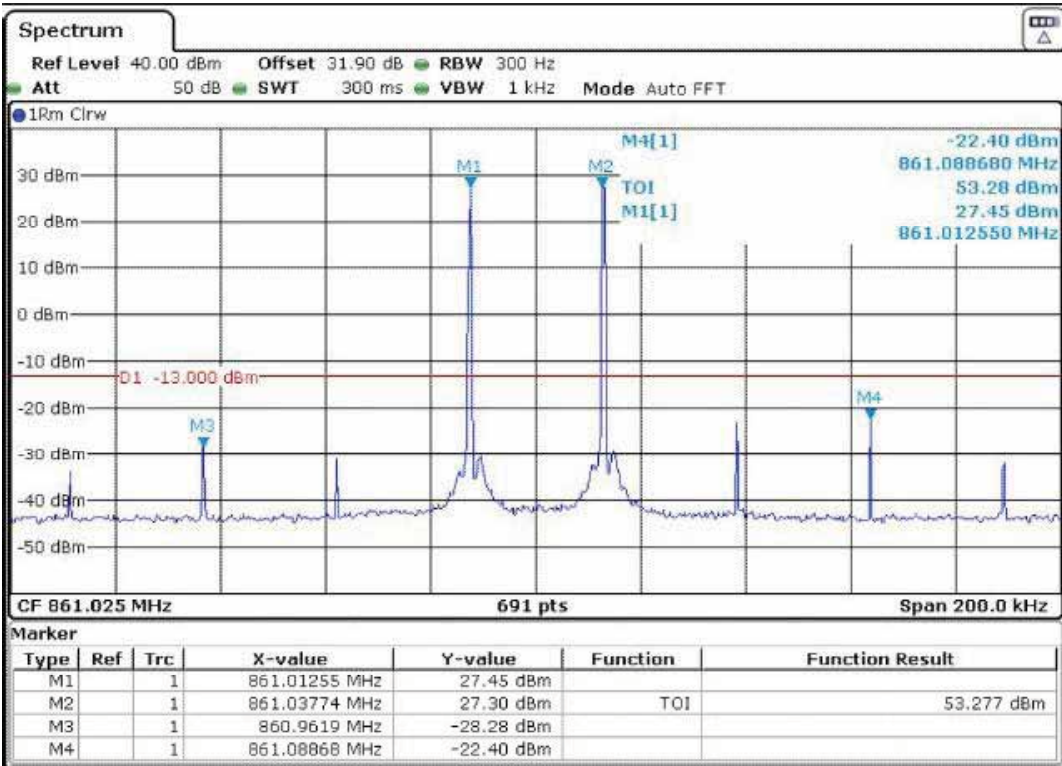
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

11.8.5.2. Channel bandwidth 25kHz

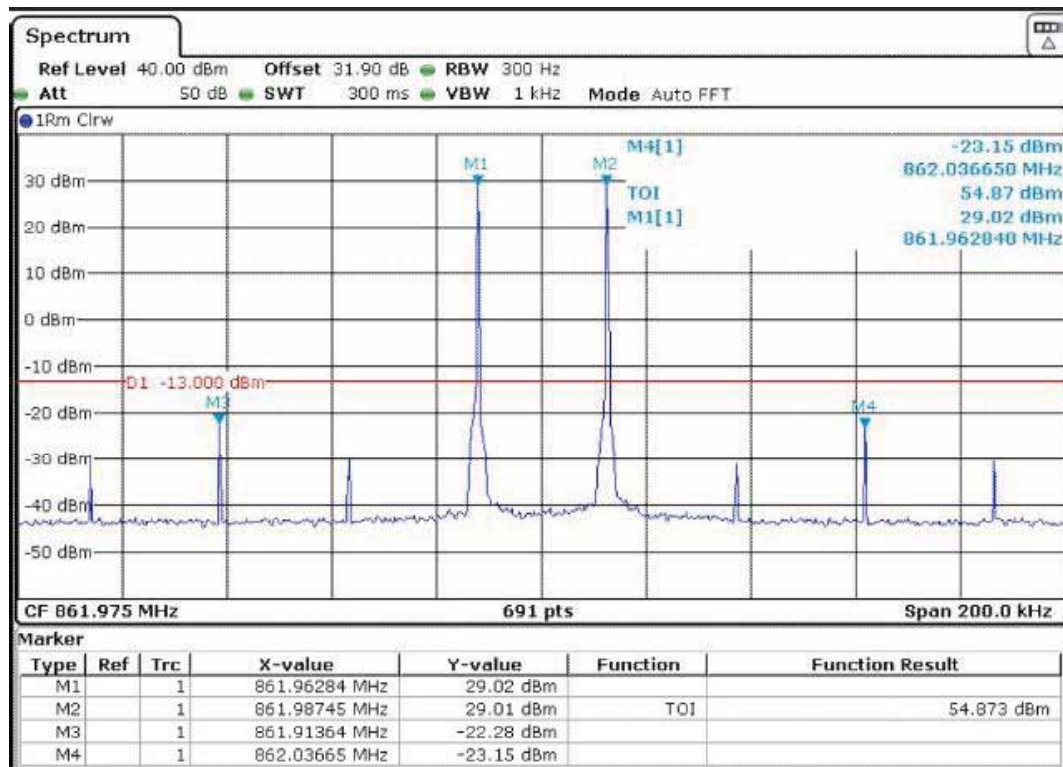
11.8.5.2.1. Downlink



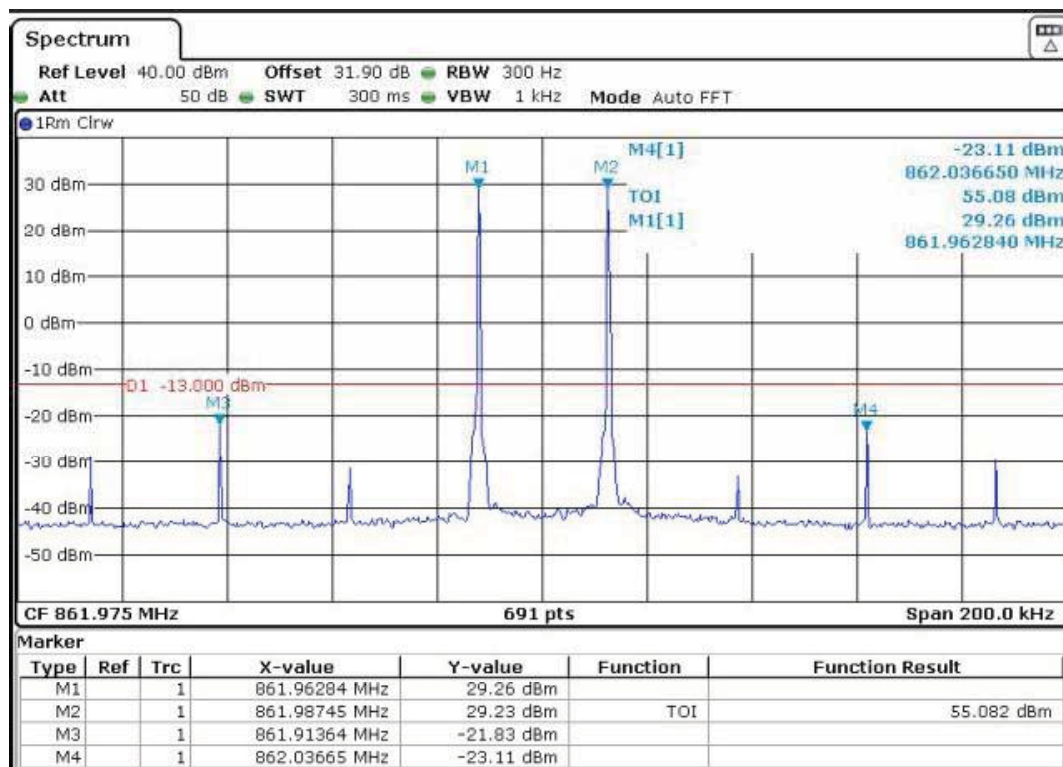
Low Frequency and with the ALC threshold level



Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold

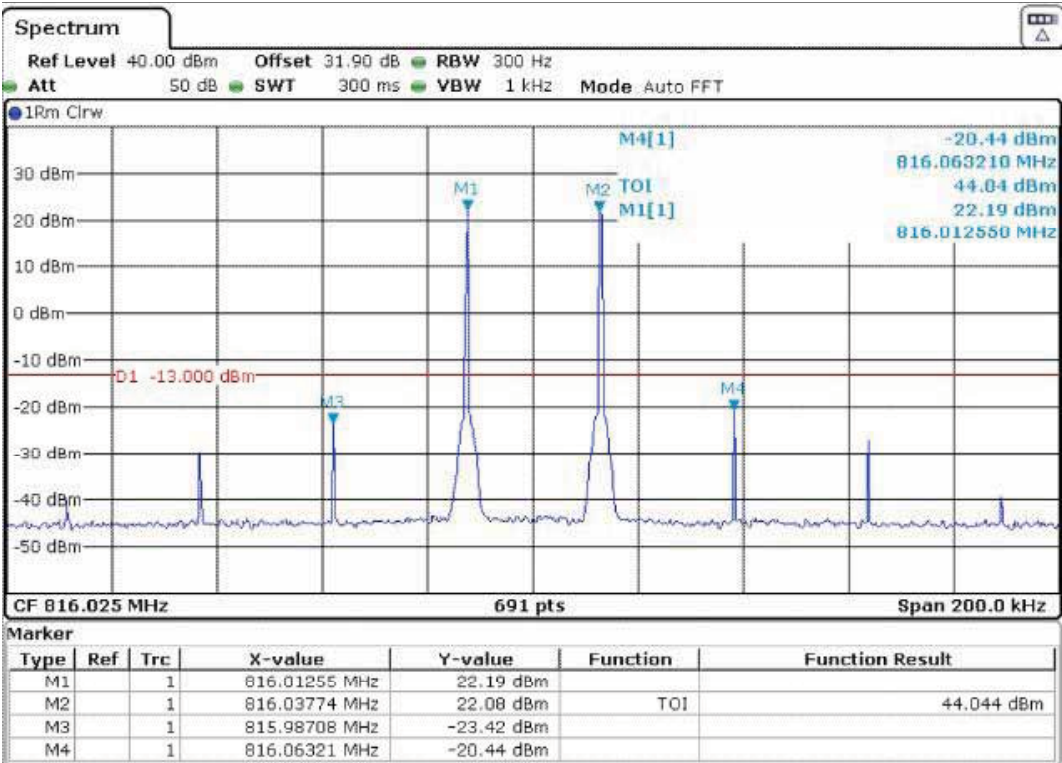


High Frequency and with the ALC threshold level

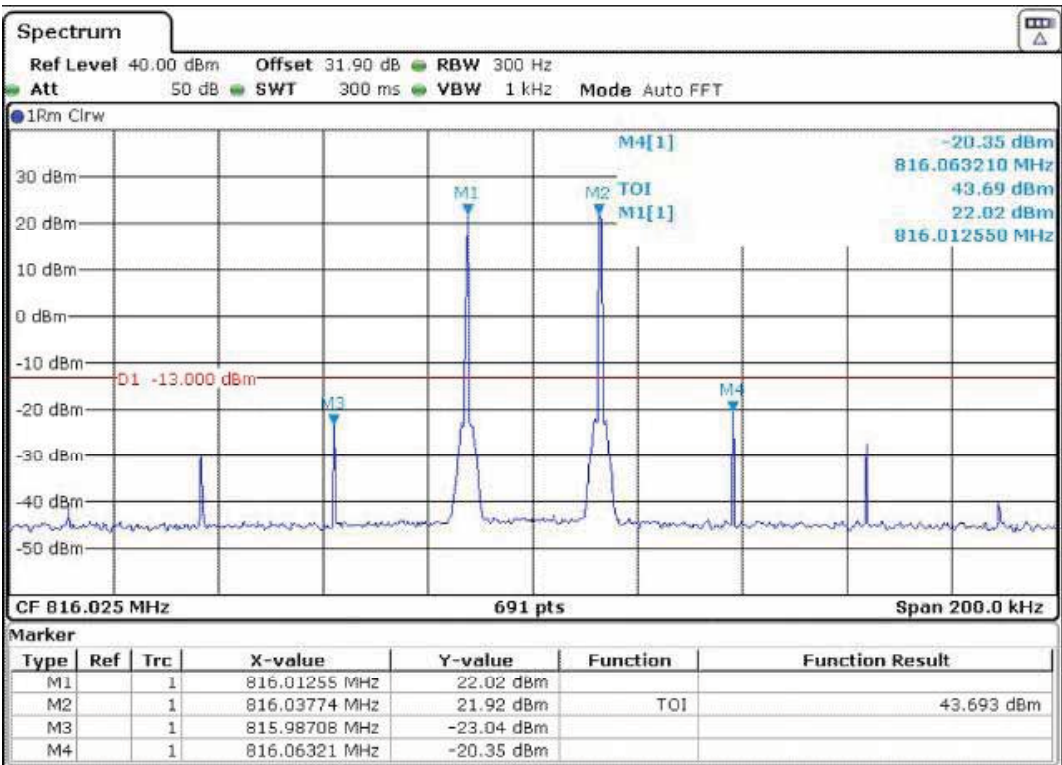


High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

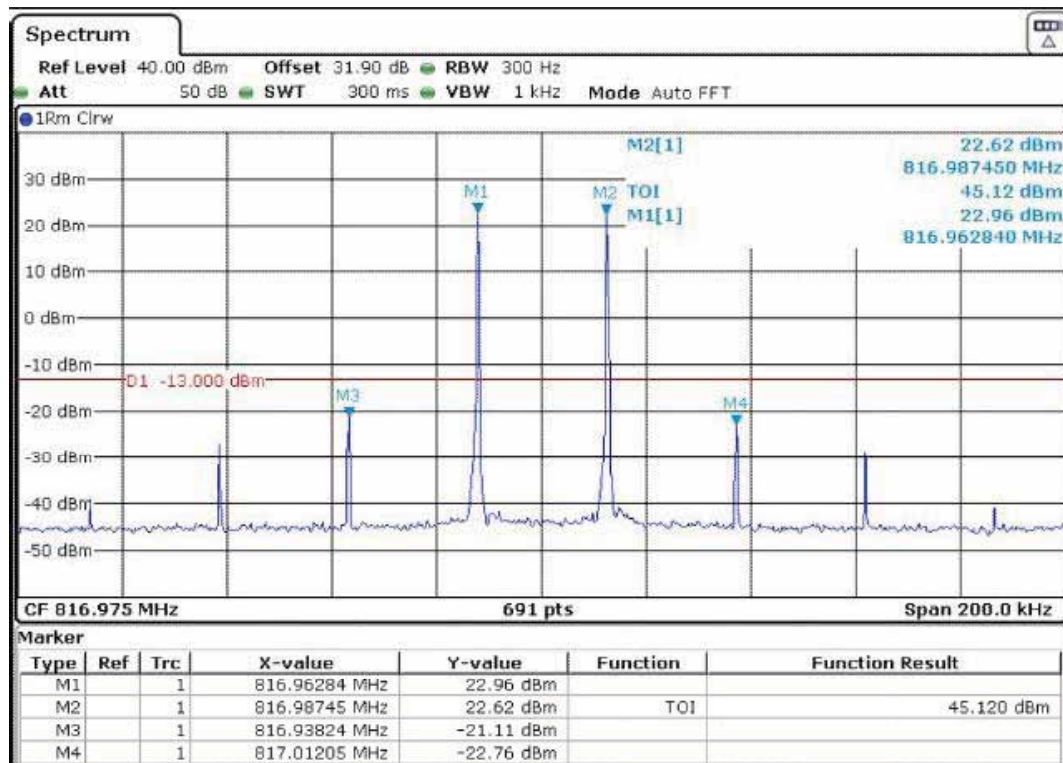
11.8.5.2.2. Uplink



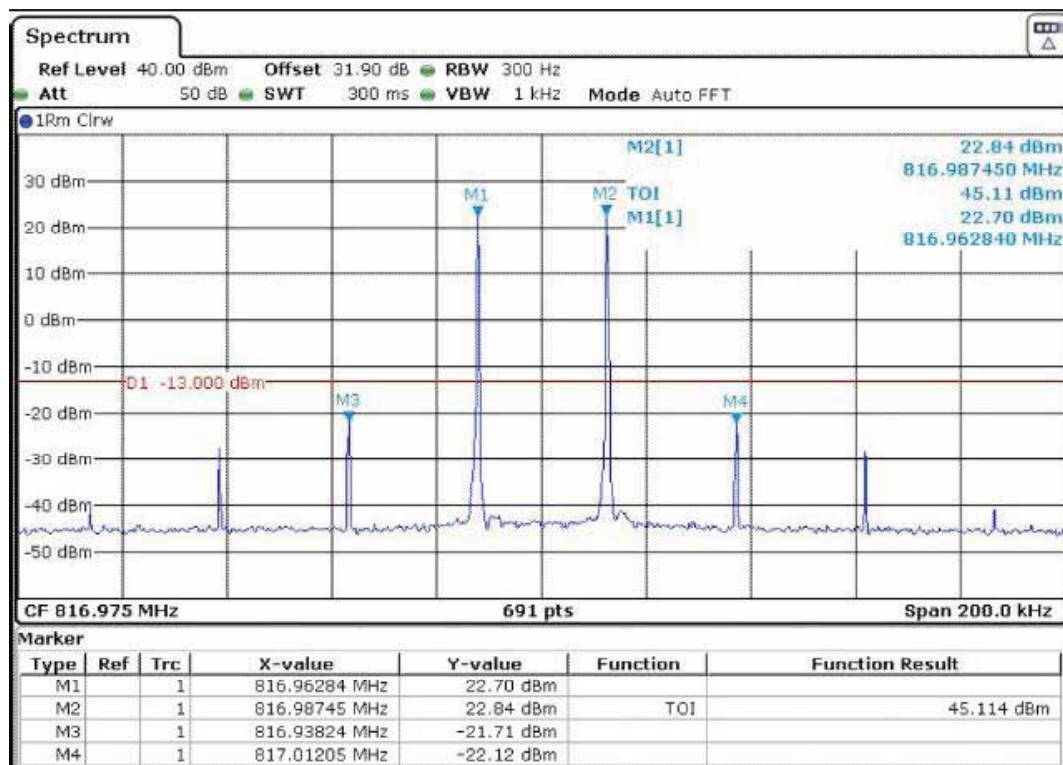
Low Frequency and with the ALC threshold level



Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



High Frequency and with the ALC threshold level



High Frequency and with the input signal amplitude set 3 dB above the ALC threshold