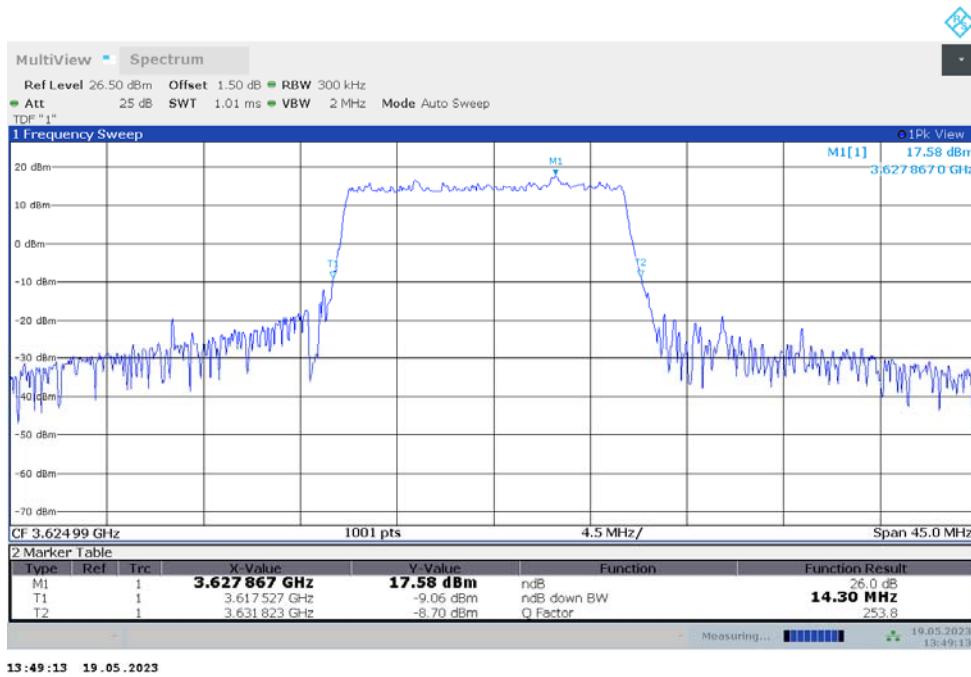


n48

n48,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	14.296	14.296

n48,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

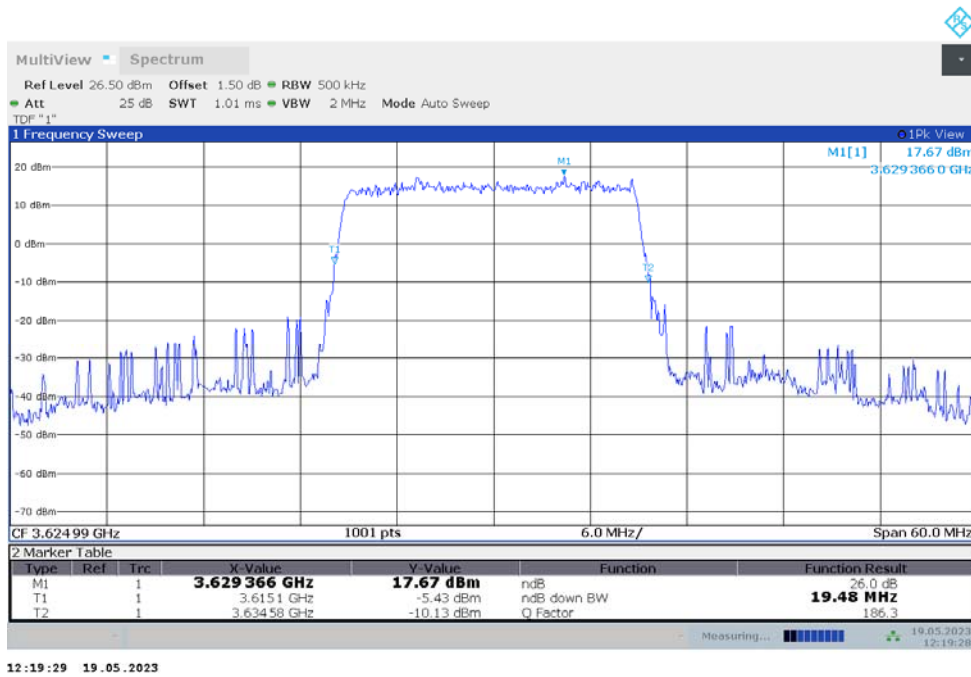


n48

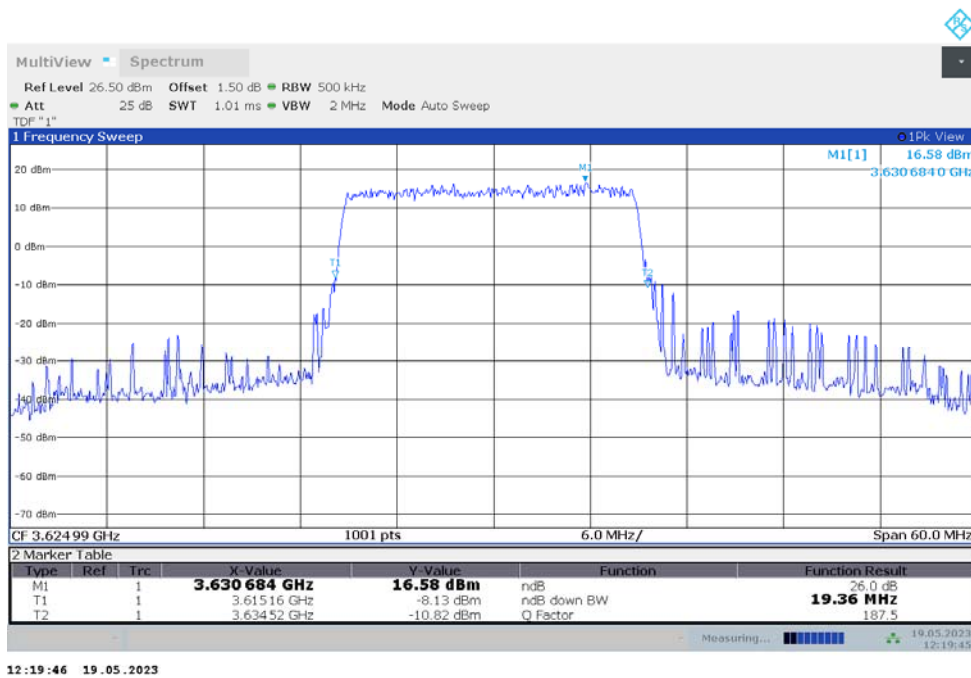
n48,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	19.481	19.361

n48,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

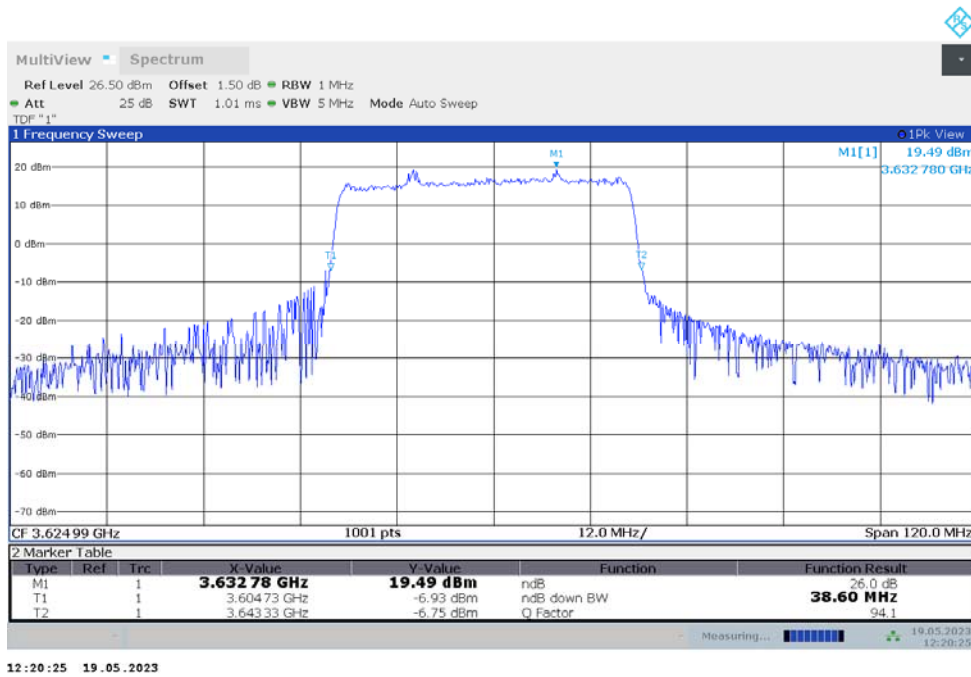


n48

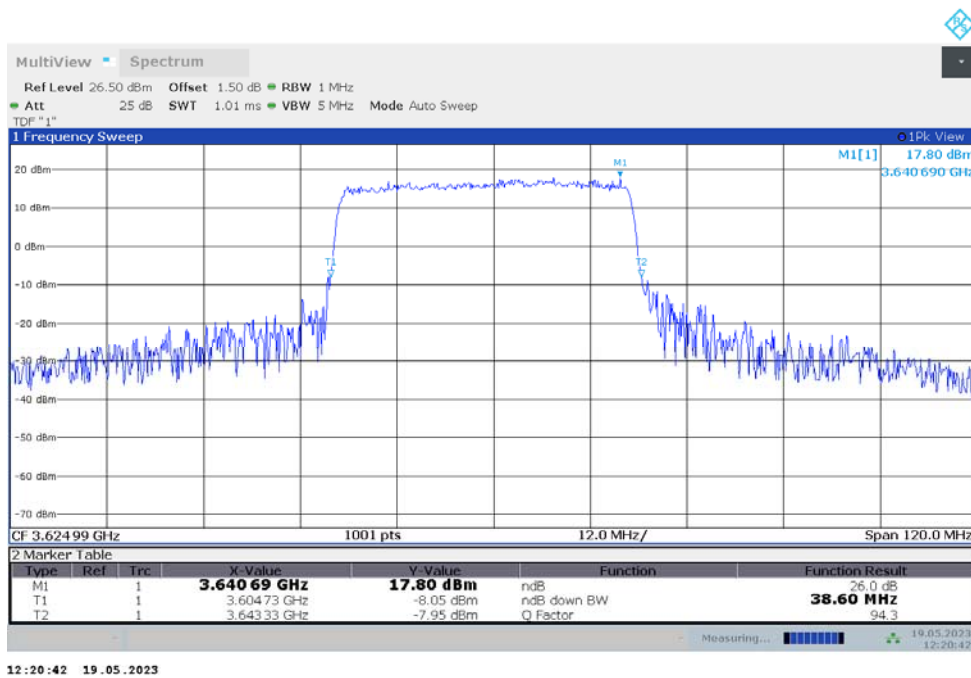
n48,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	38.600	38.600

n48,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

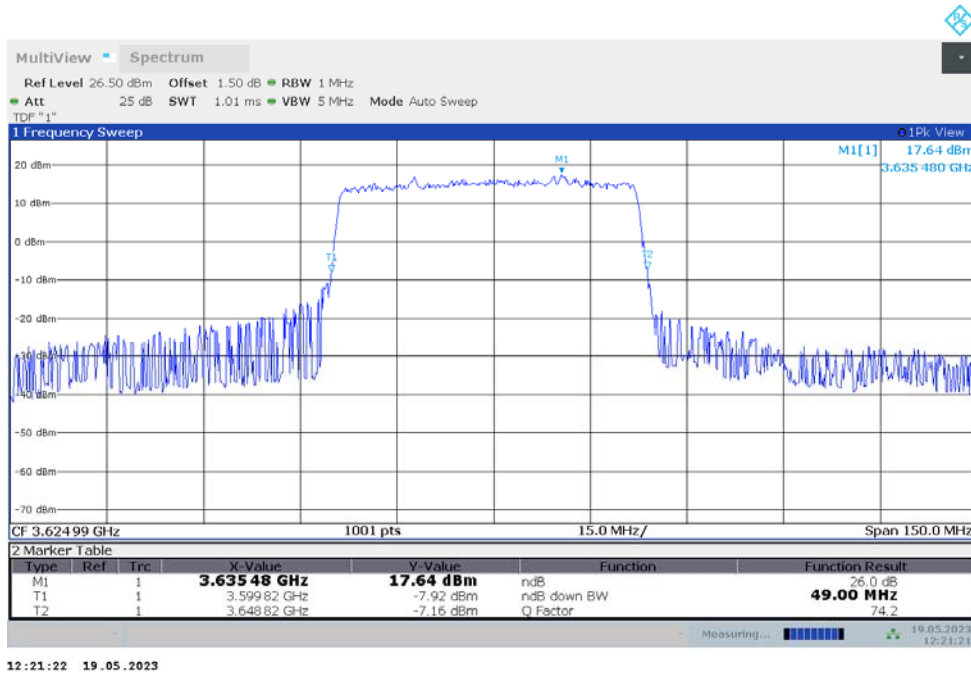


n48

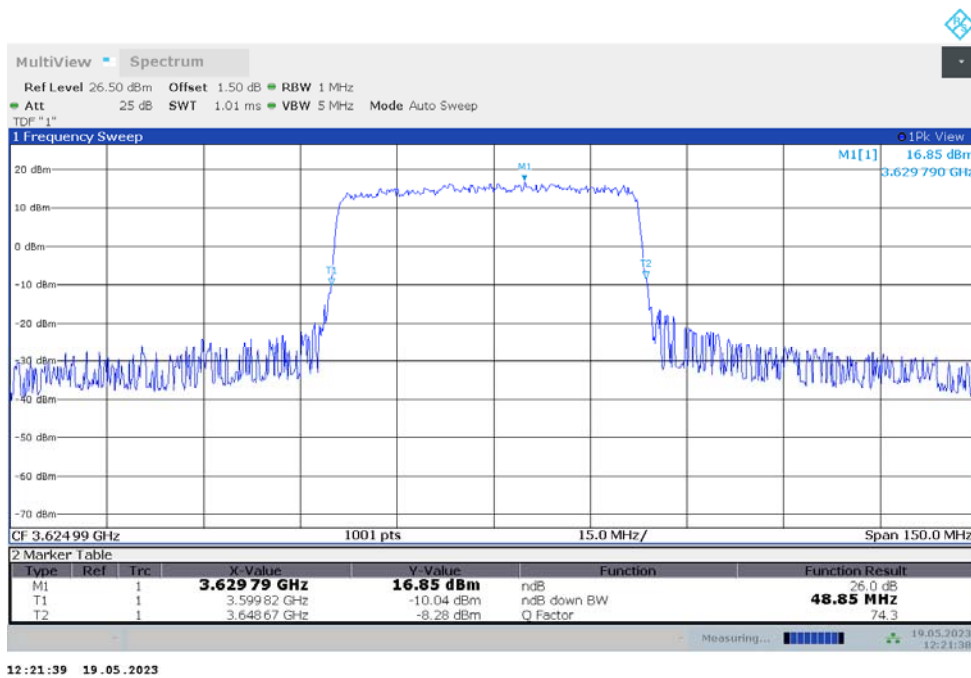
n48,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	49.000	48.850

n48,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

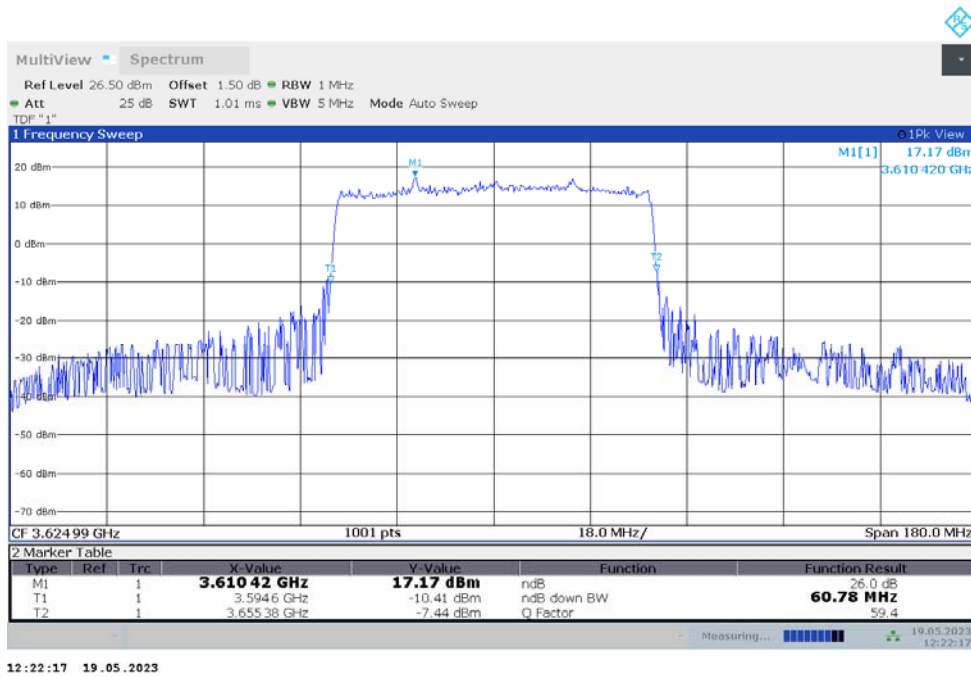


n48

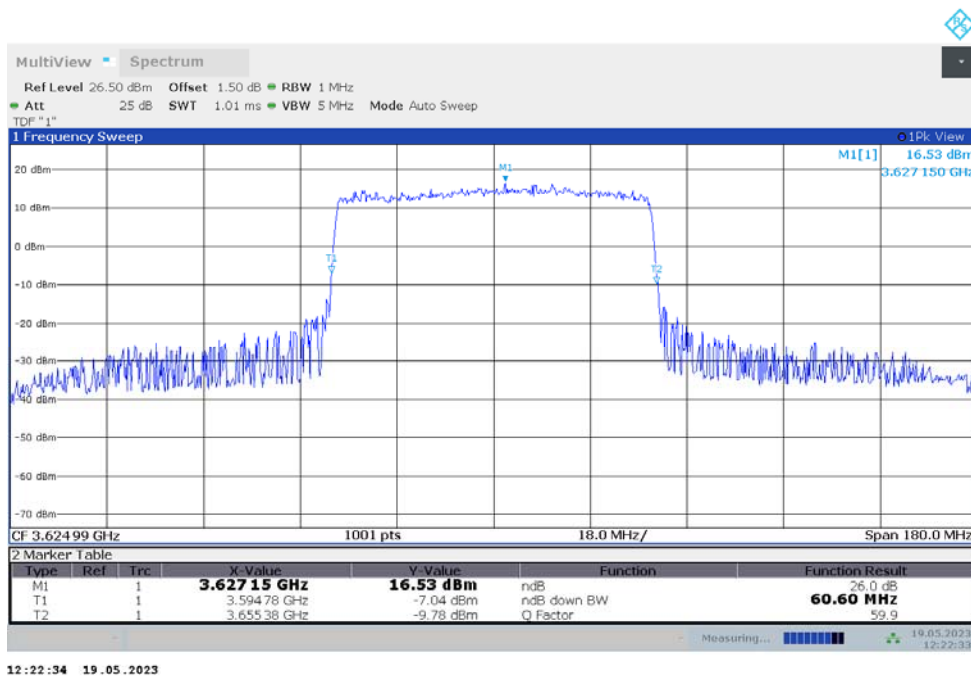
n48,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	60.780	60.600

n48,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



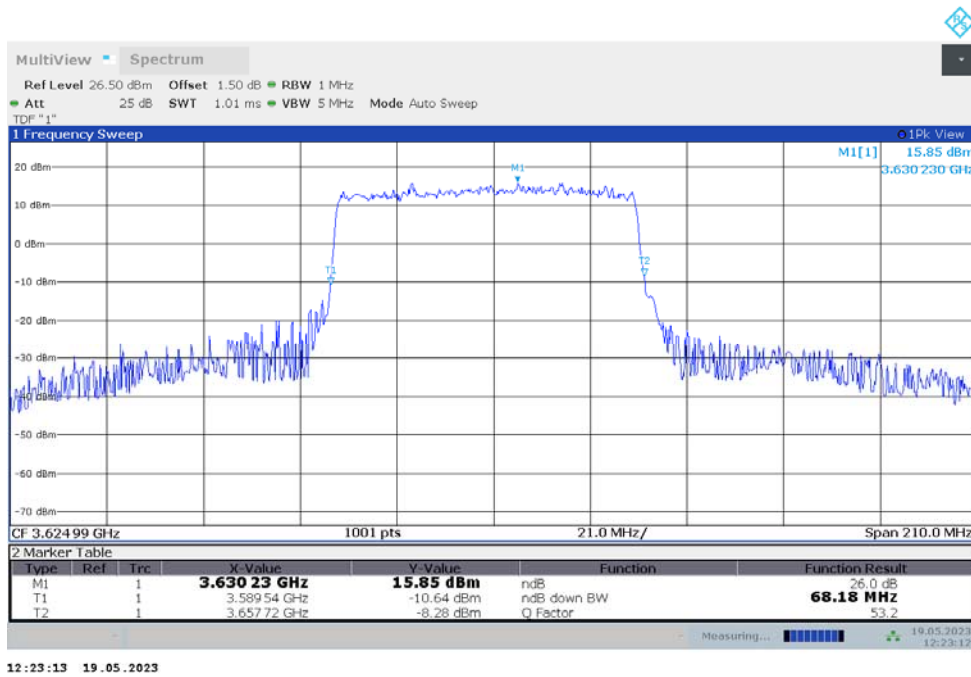
n48,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



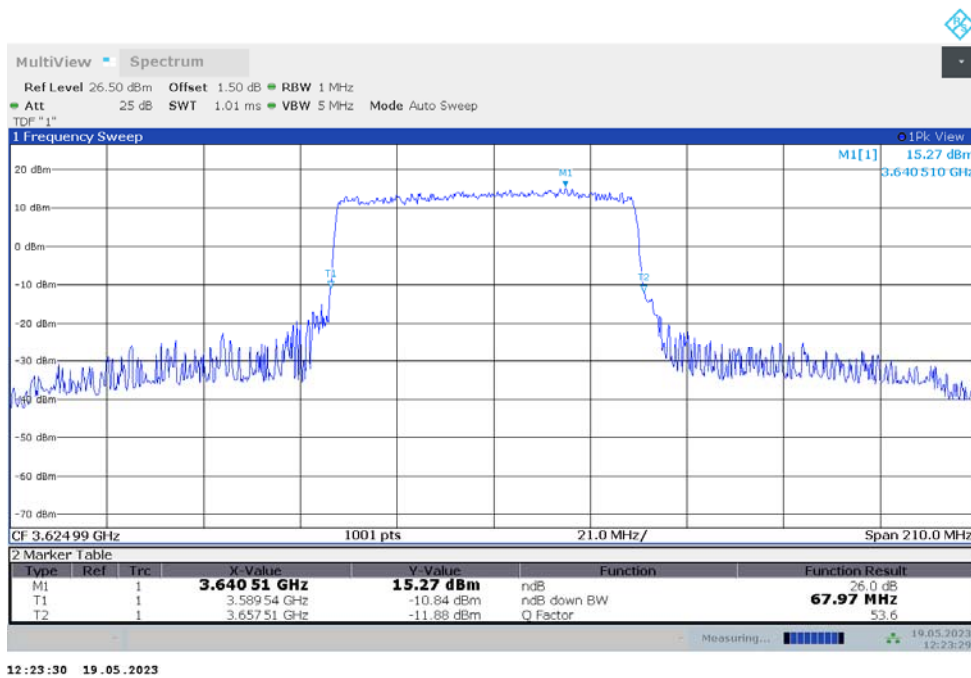
n48
n48,70MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	68.180	67.970

n48,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



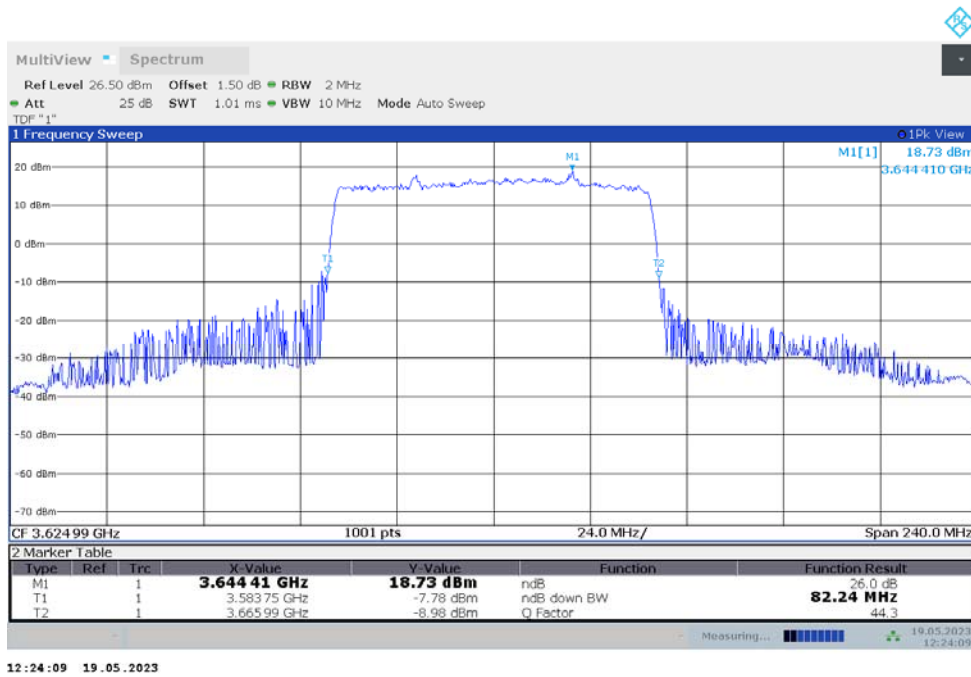
n48,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



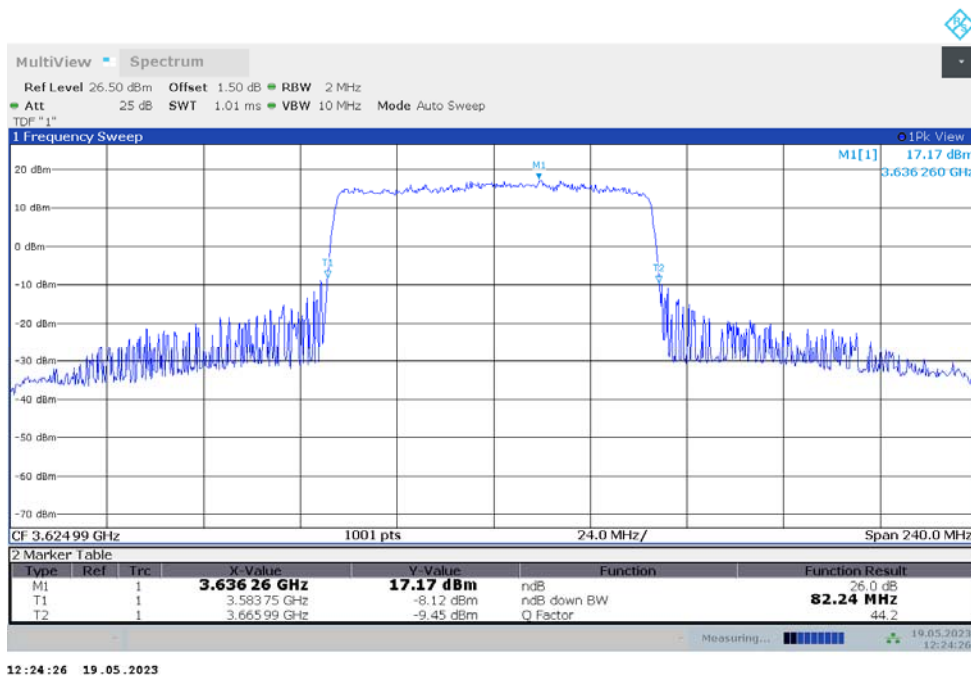
n48
n48,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	82.240	82.240

n48,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



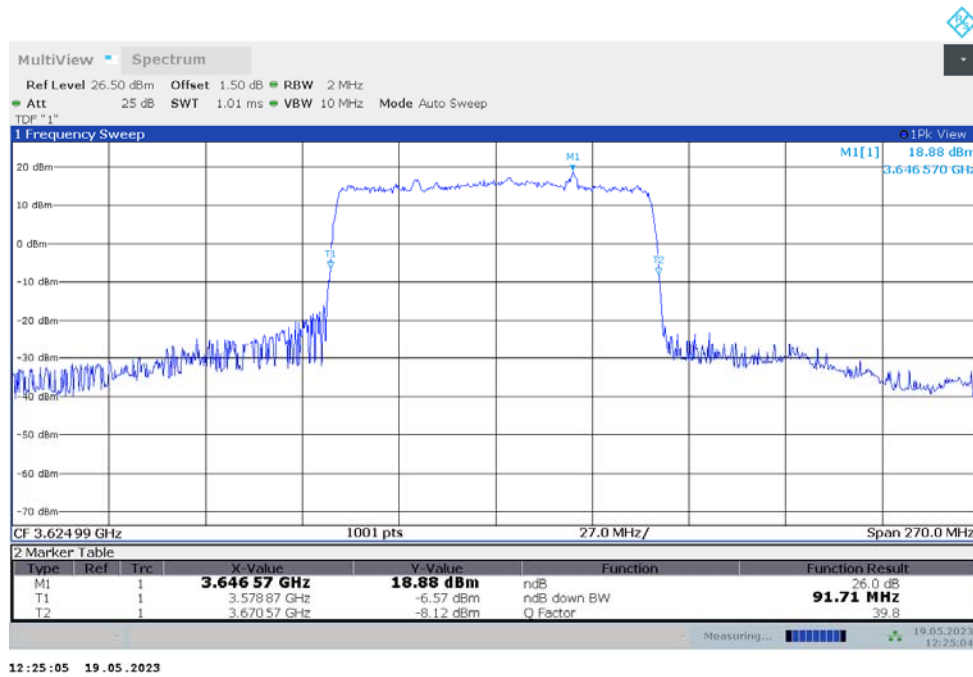
n48,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



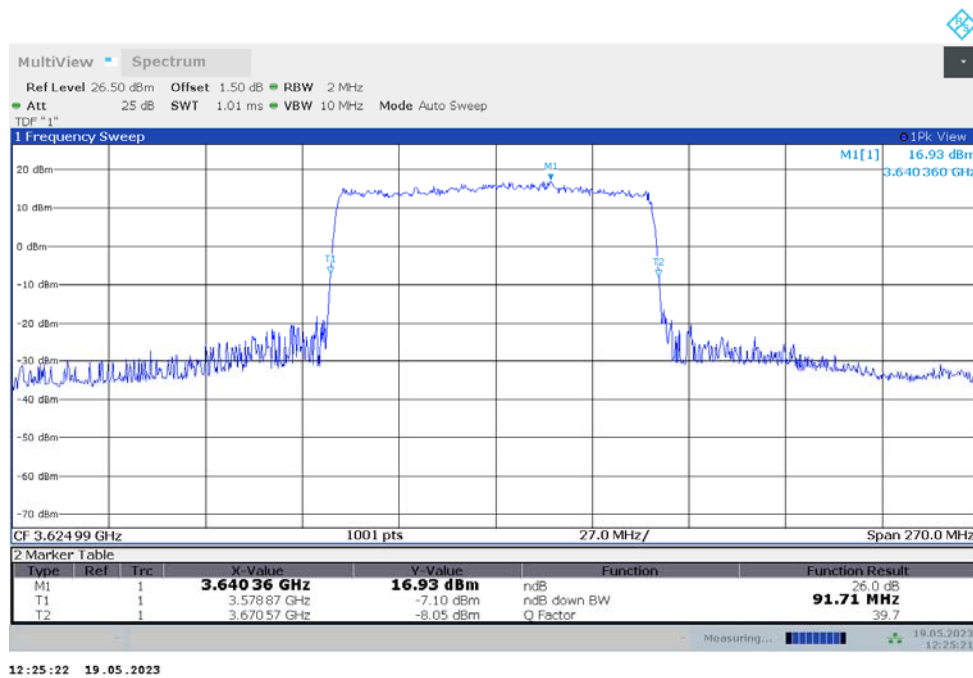
n48
n48,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	91.710	91.710

n48,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

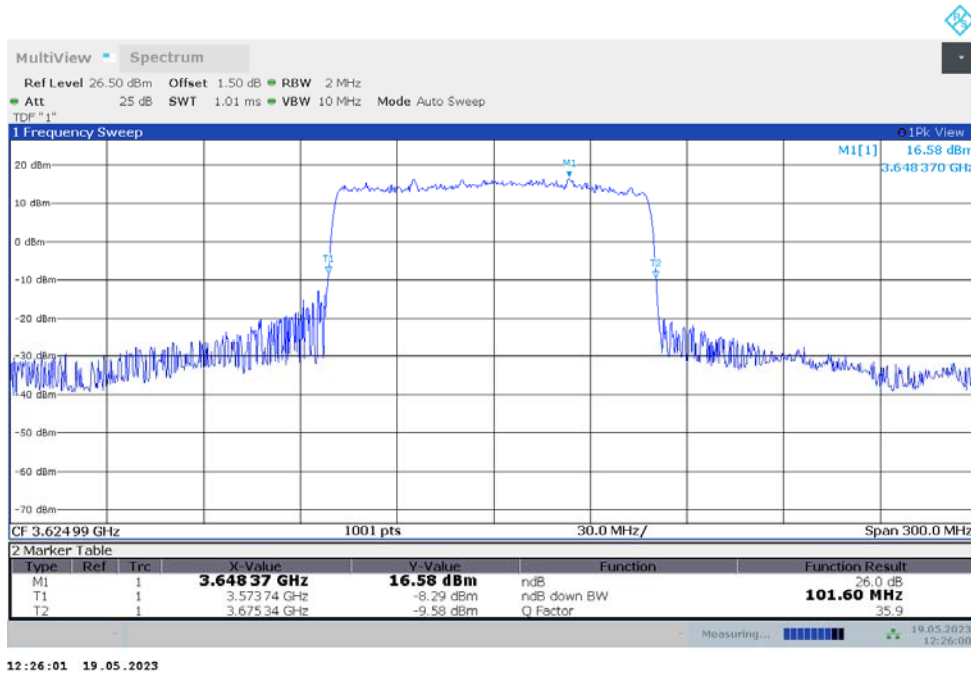


n48

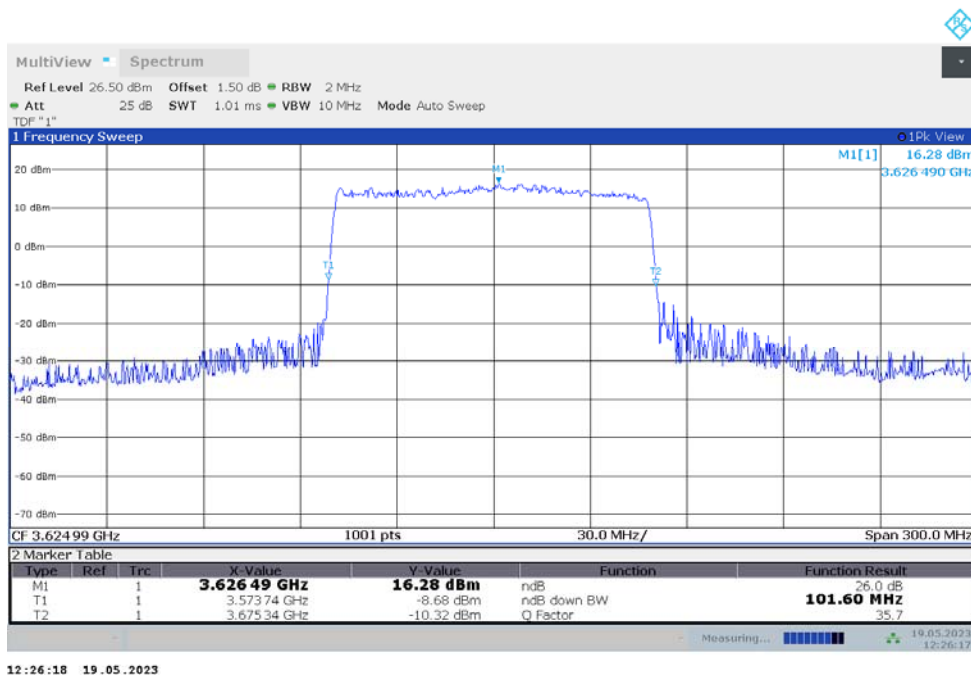
n48,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3624.99	101.600	101.600

n48,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n48,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n66
n66,5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	4.975	4.960

n66,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



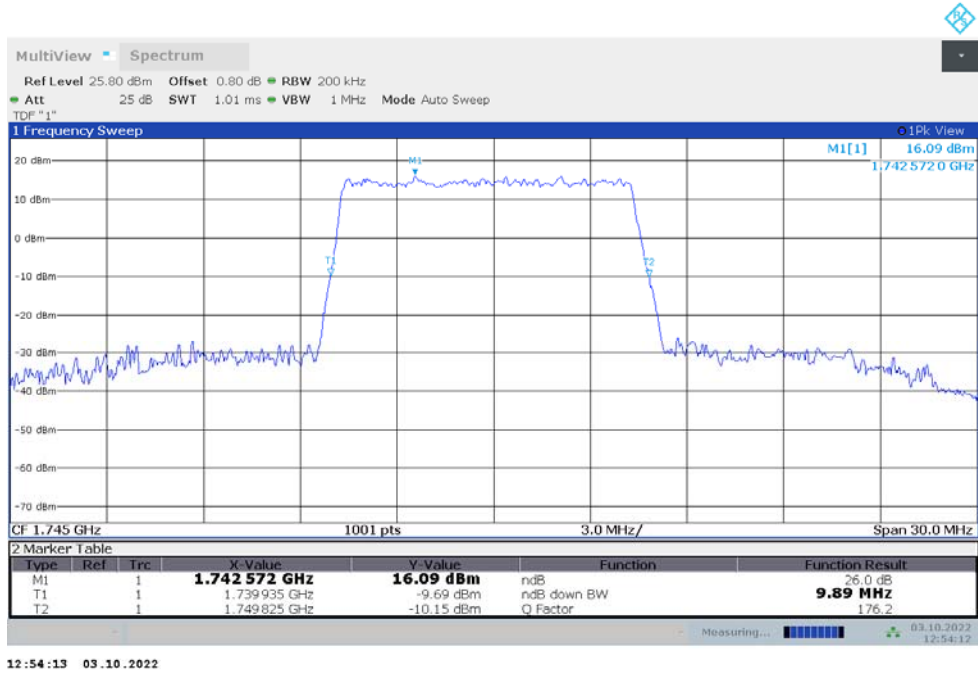
n66,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



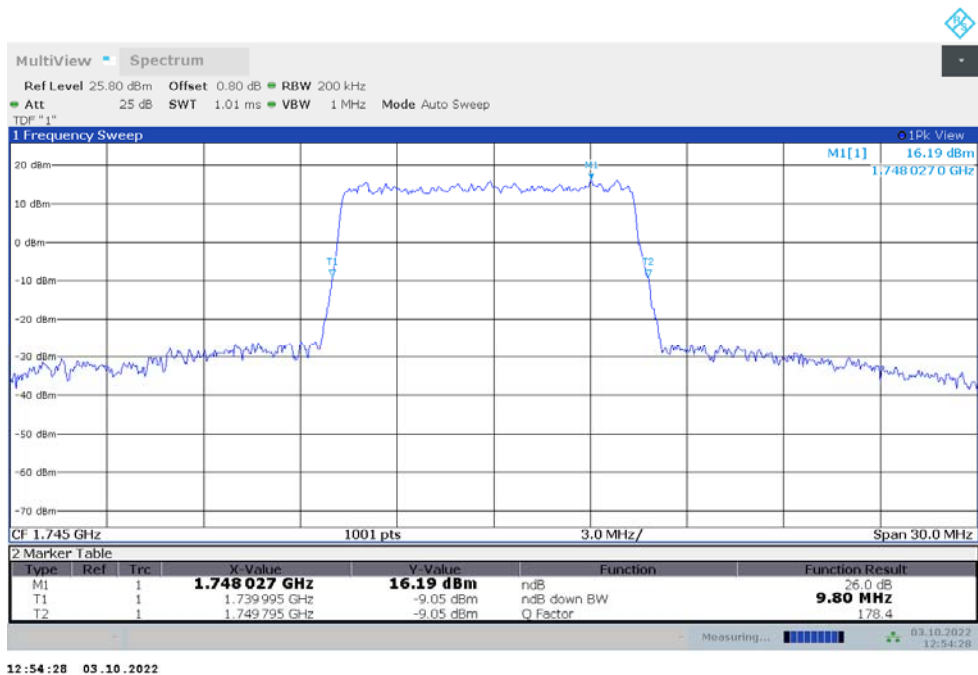
n66,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	9.890	9.800

n66,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



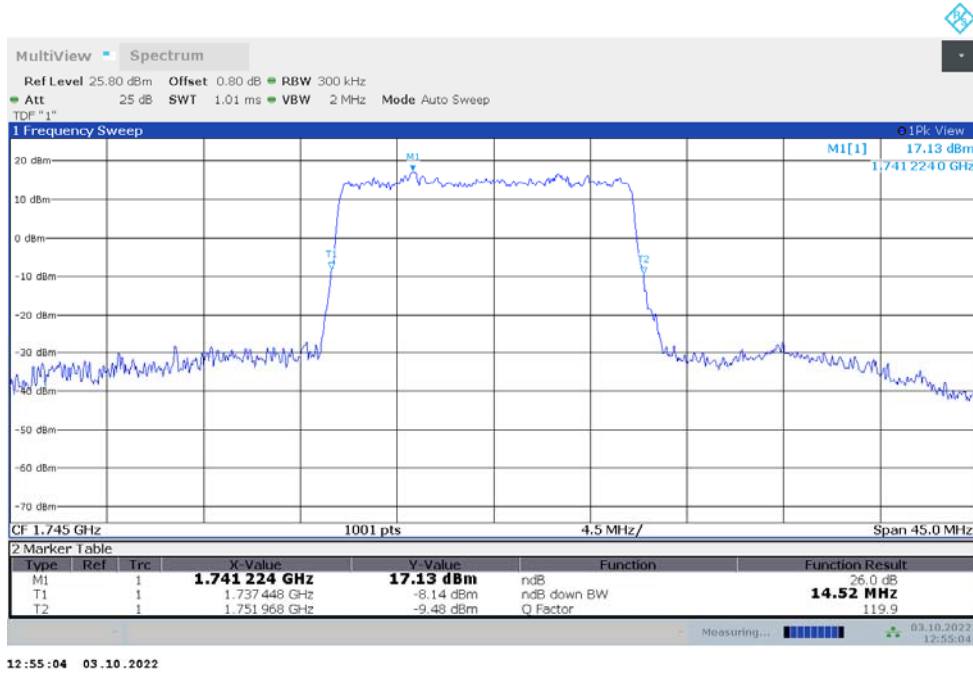
n66,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



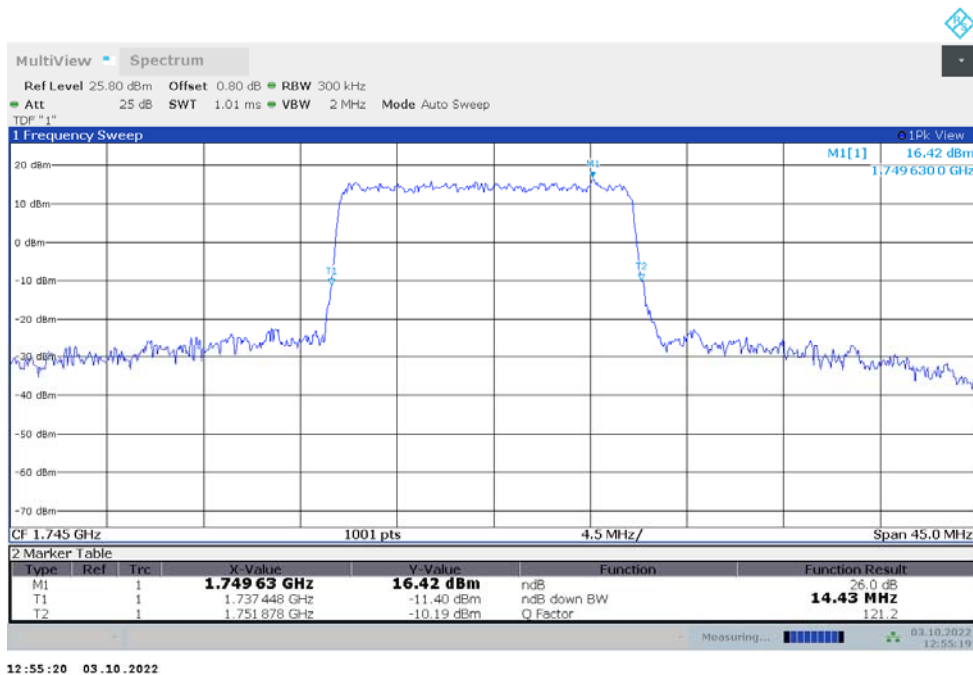
n66,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	14.520	14.431

n66,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



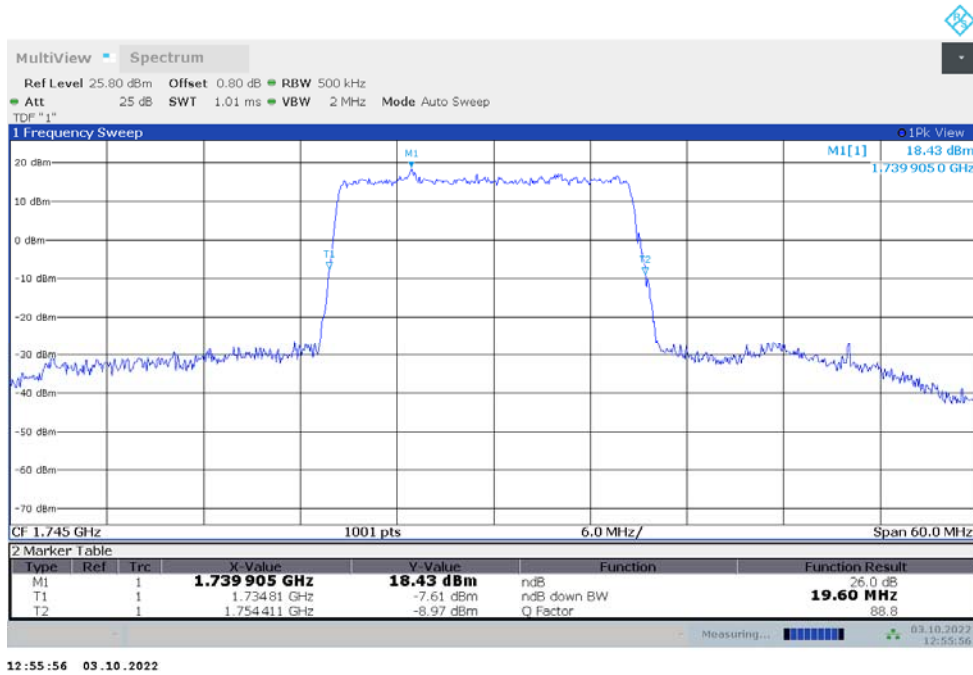
n66,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



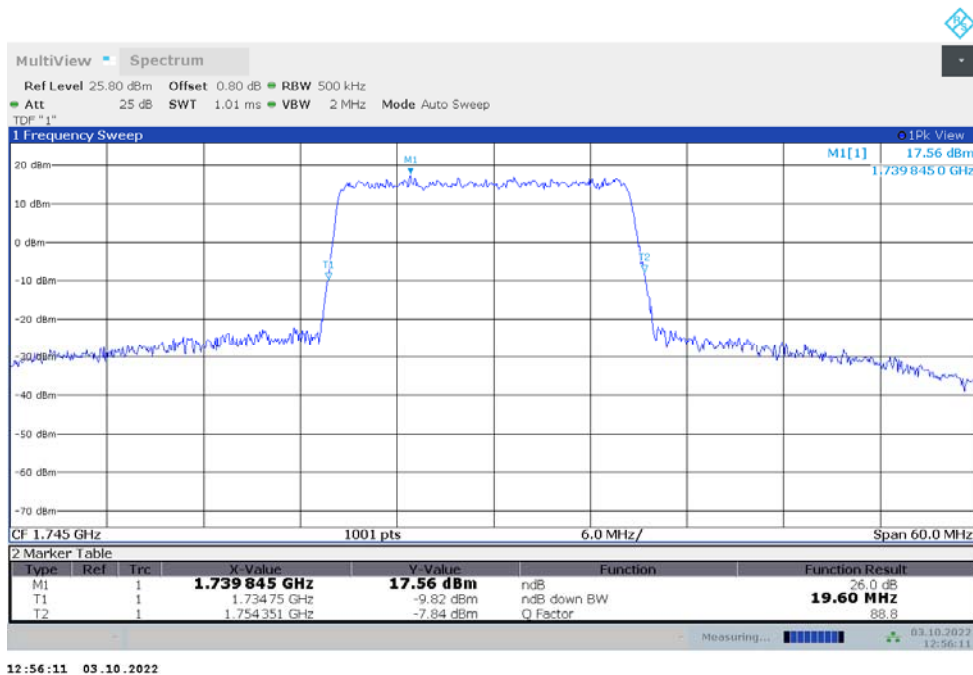
n66,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	19.600	19.600

n66,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n66,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



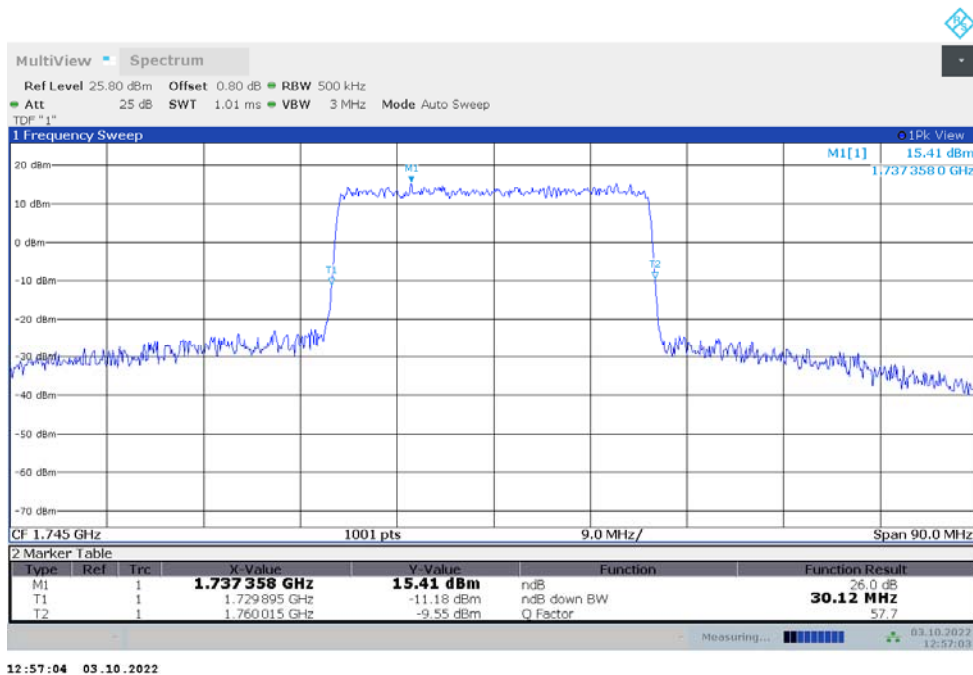
n66,30MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	29.940	30.120

n66,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



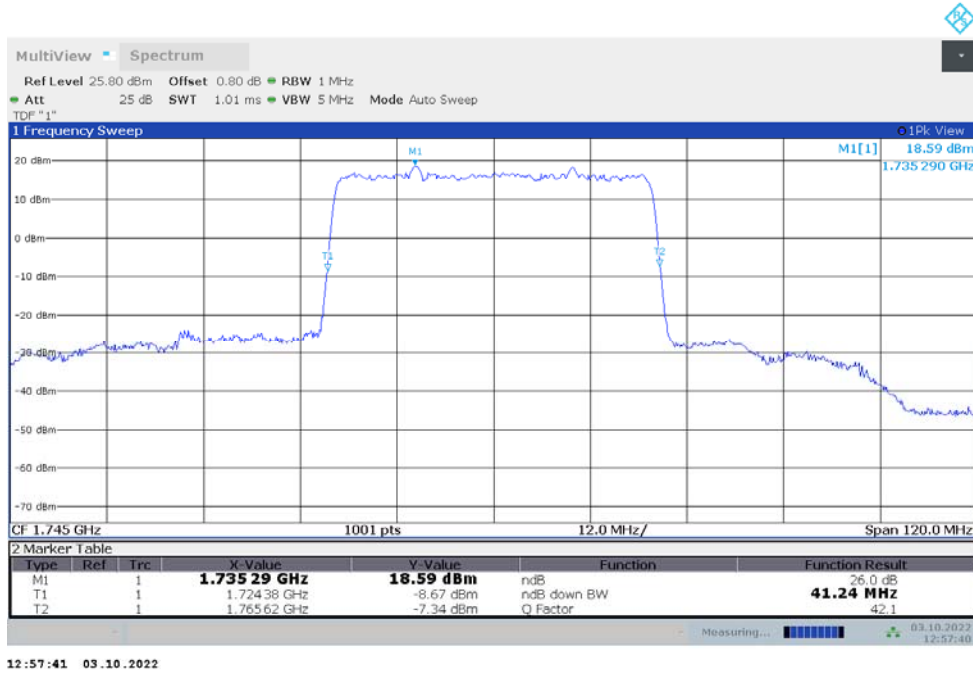
n66,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



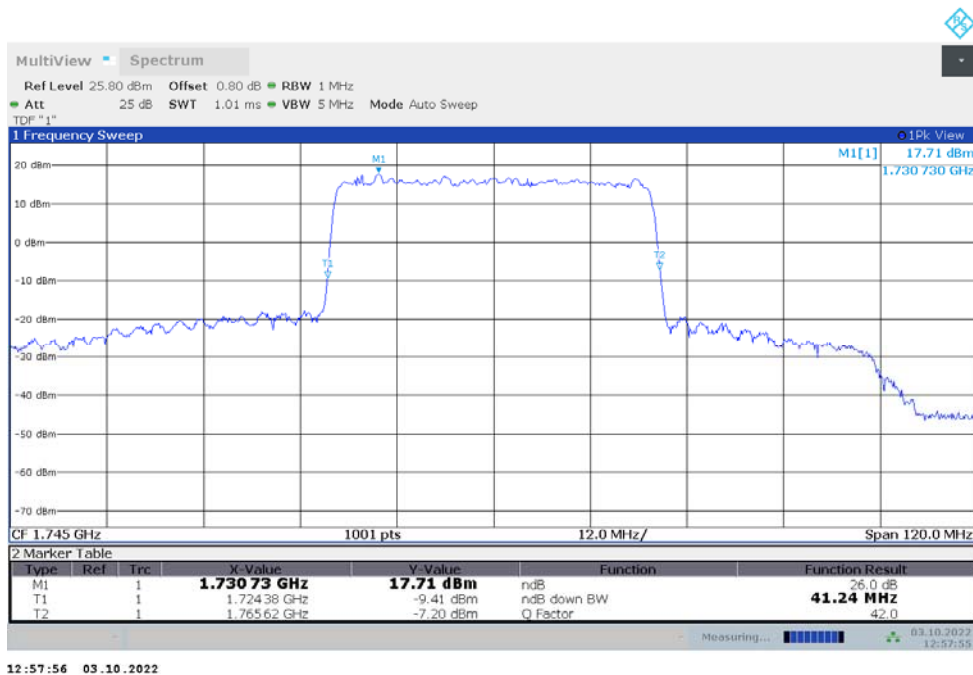
n66,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	41.240	41.240

n66,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n66,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n71

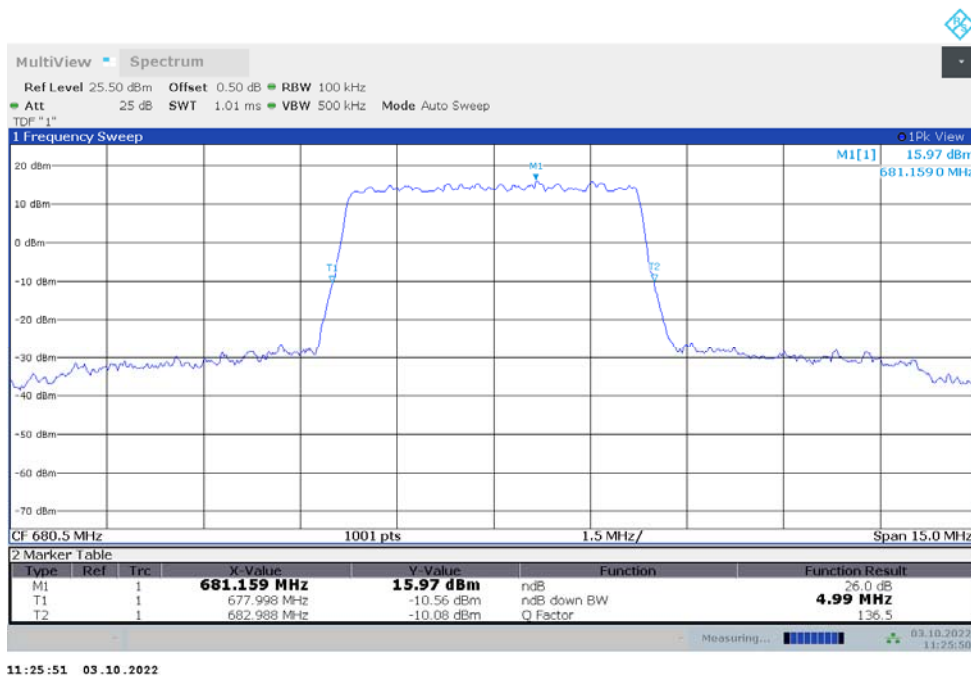
n71,5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	4.915	4.990

n71,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



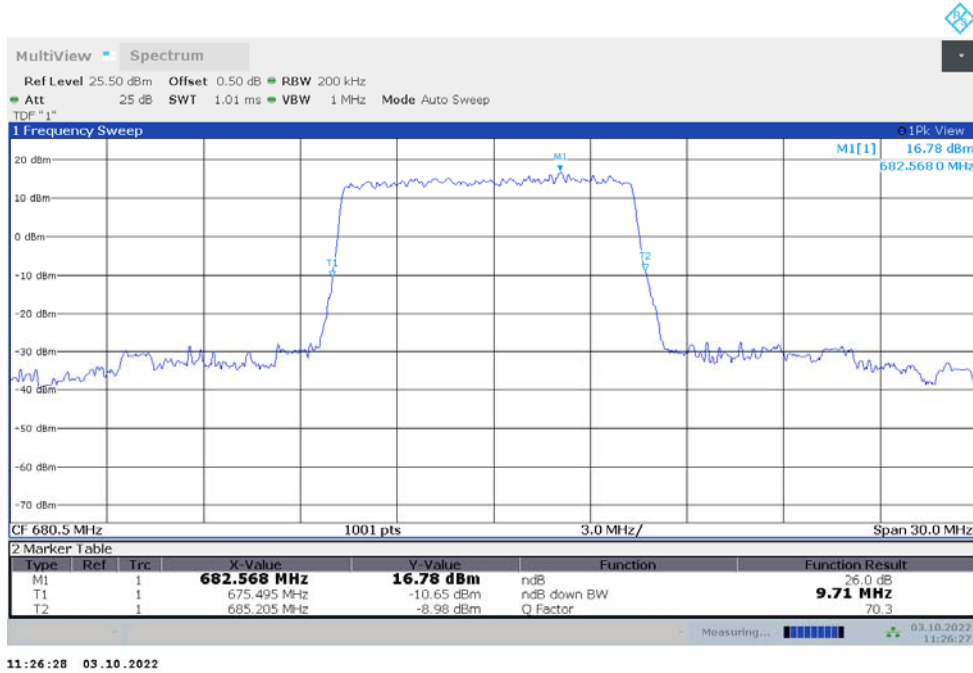
n71,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



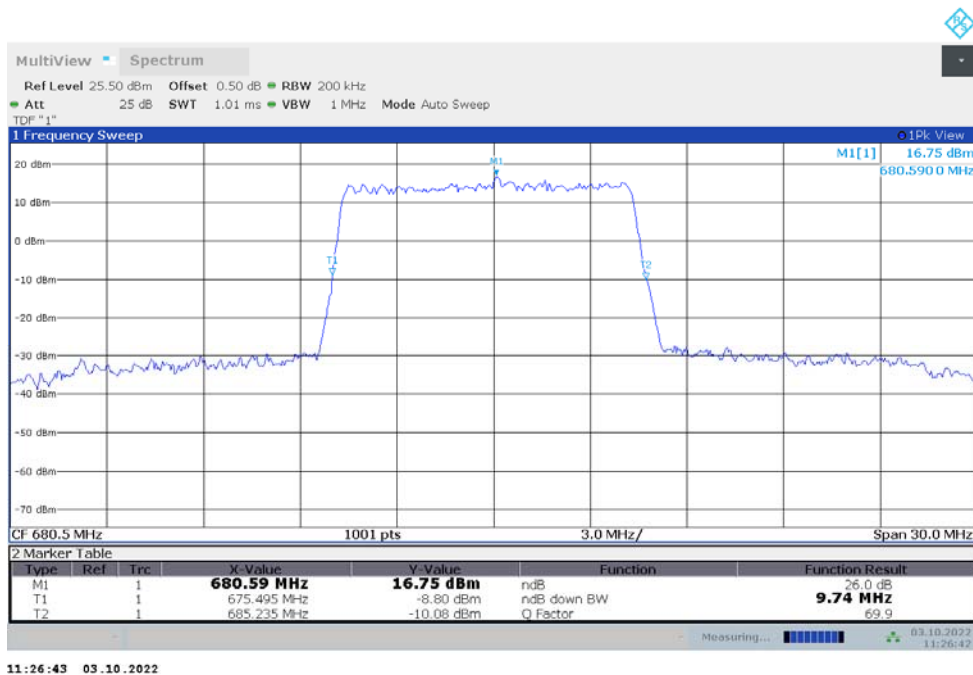
n71,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	9.710	9.740

n71,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



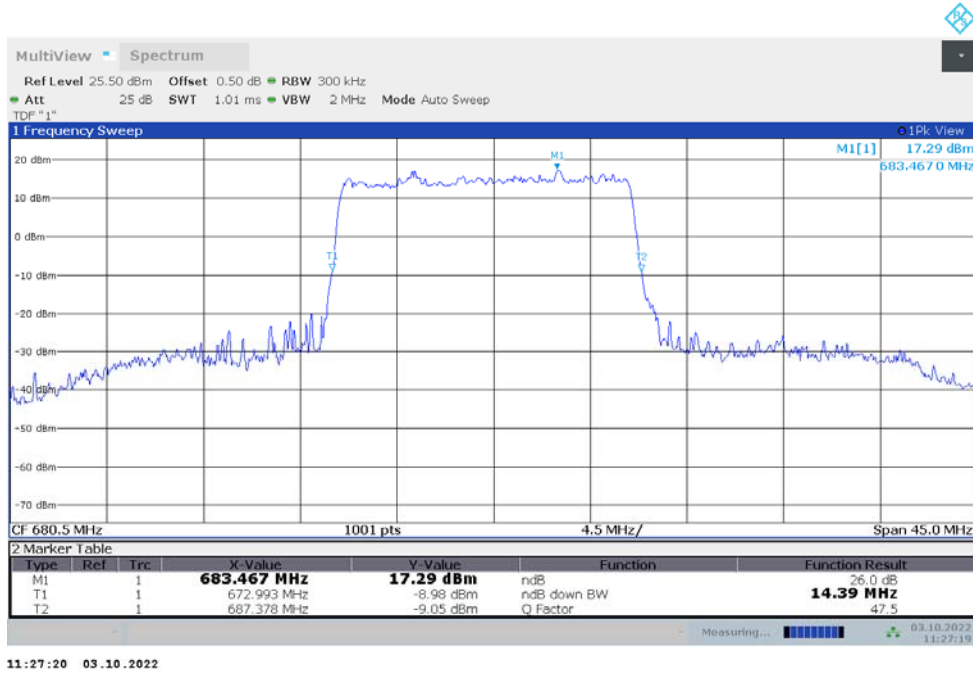
n71,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



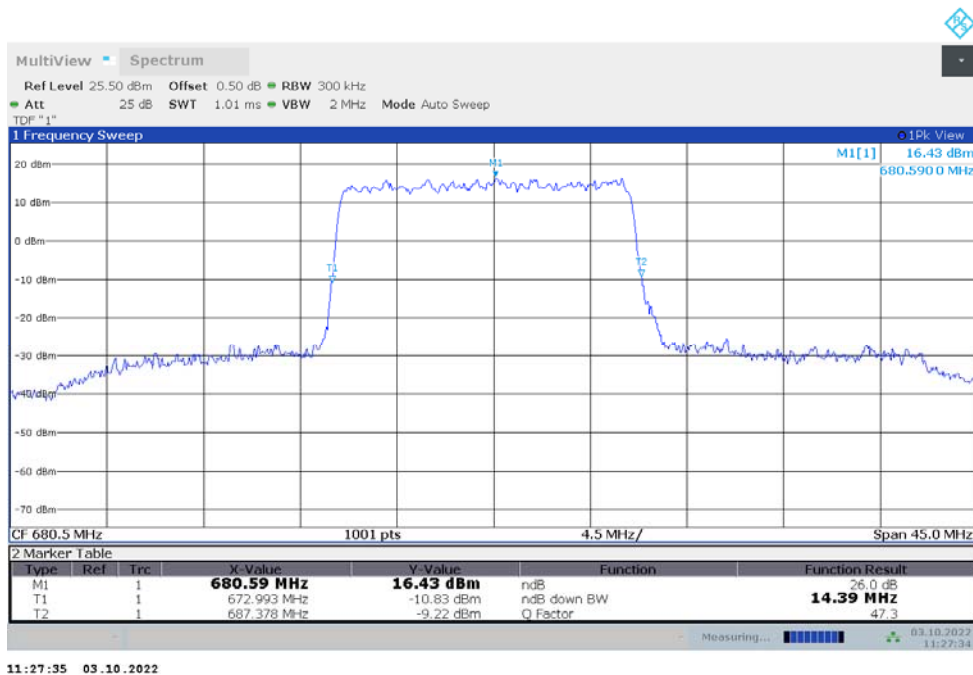
n71,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	14.386	14.386

n71,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



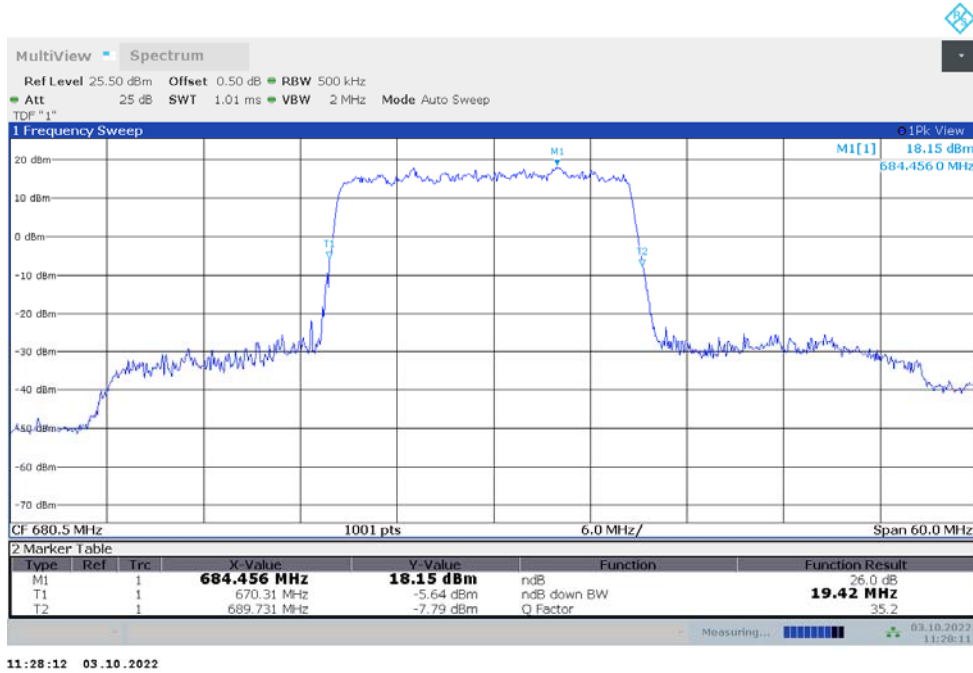
n71,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n71,20MHz(-26dBc)

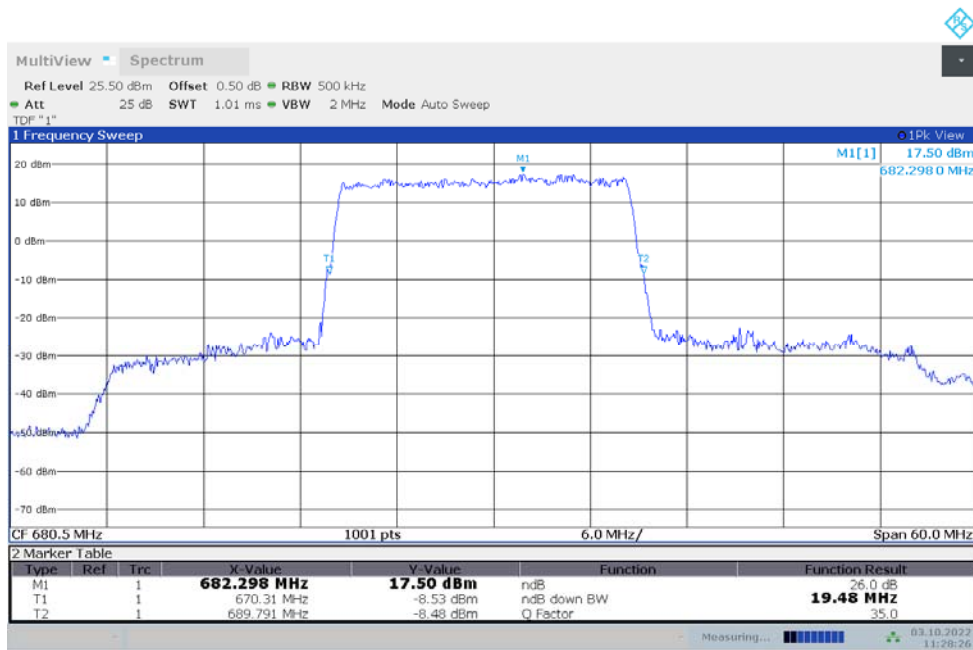
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	19.421	19.481

n71,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



11:28:12 03.10.2022

n71,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



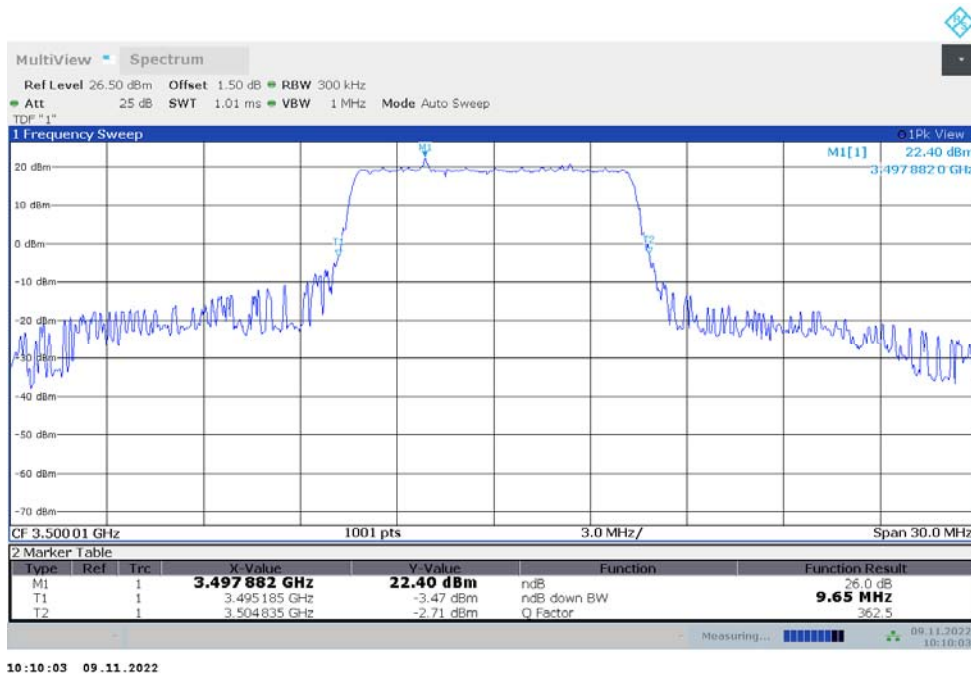
11:28:27 03.10.2022

n77L

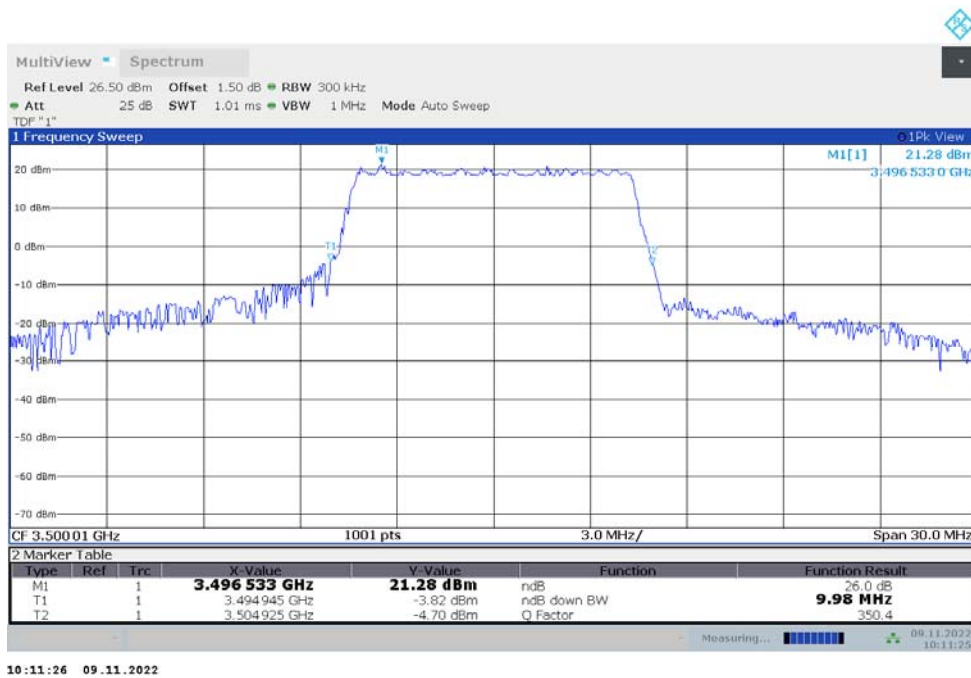
n77L,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	9.650	9.980

n77L,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



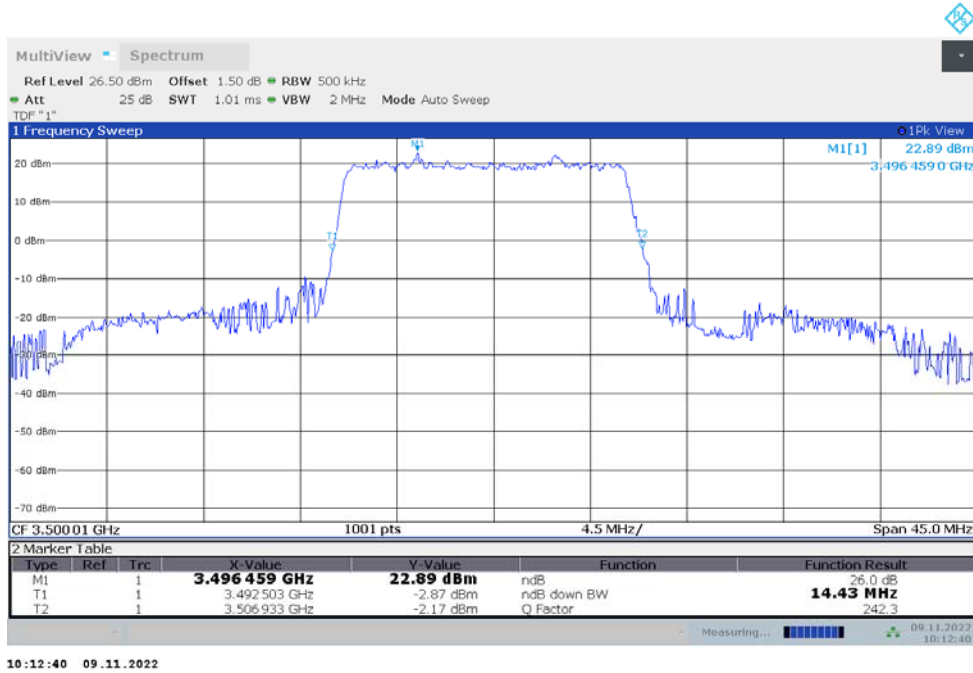
n77L,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



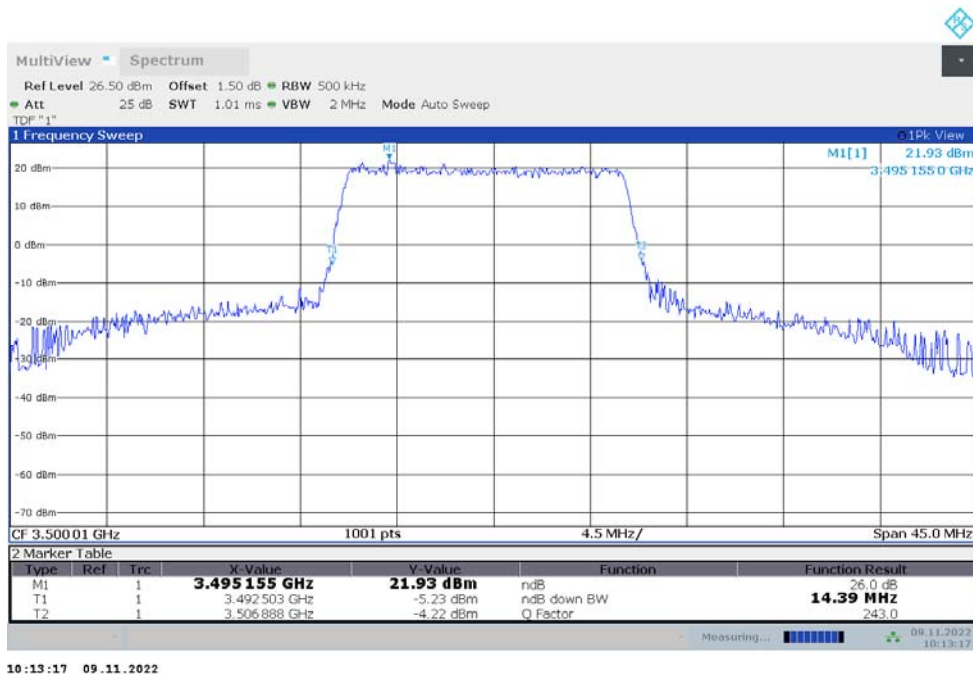
n77L,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	14.431	14.386

n77L,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



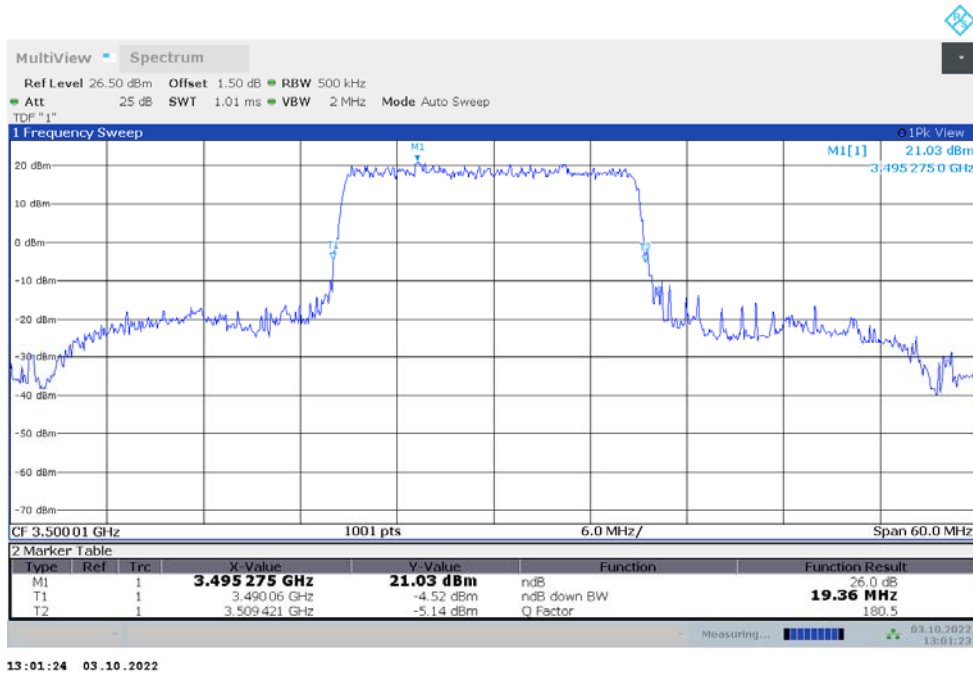
n77L,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



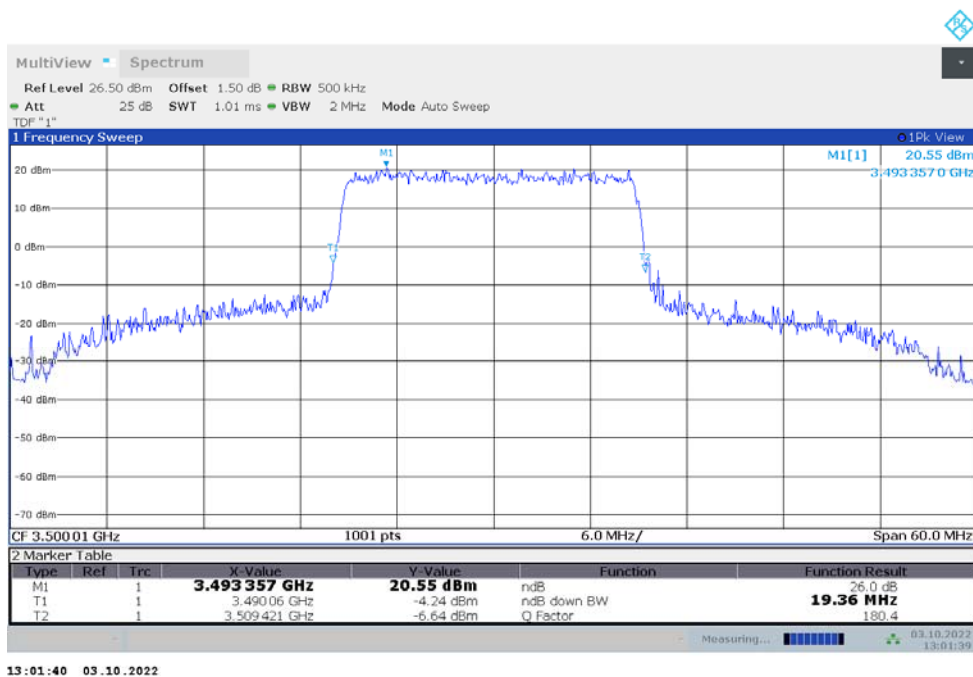
n77L,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	19.361	19.361

n77L,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



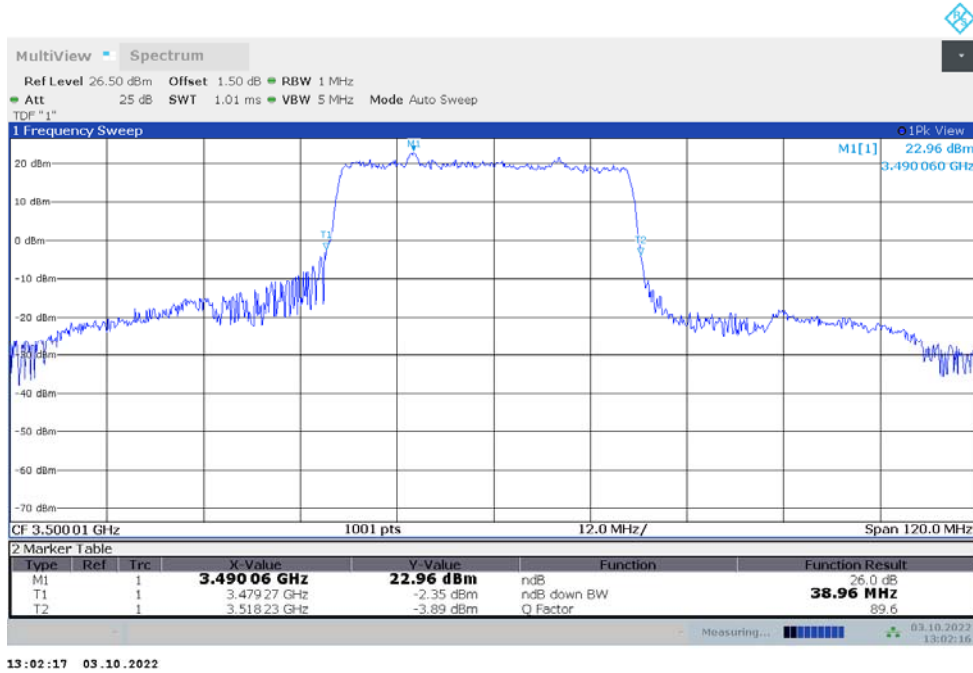
n77L,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



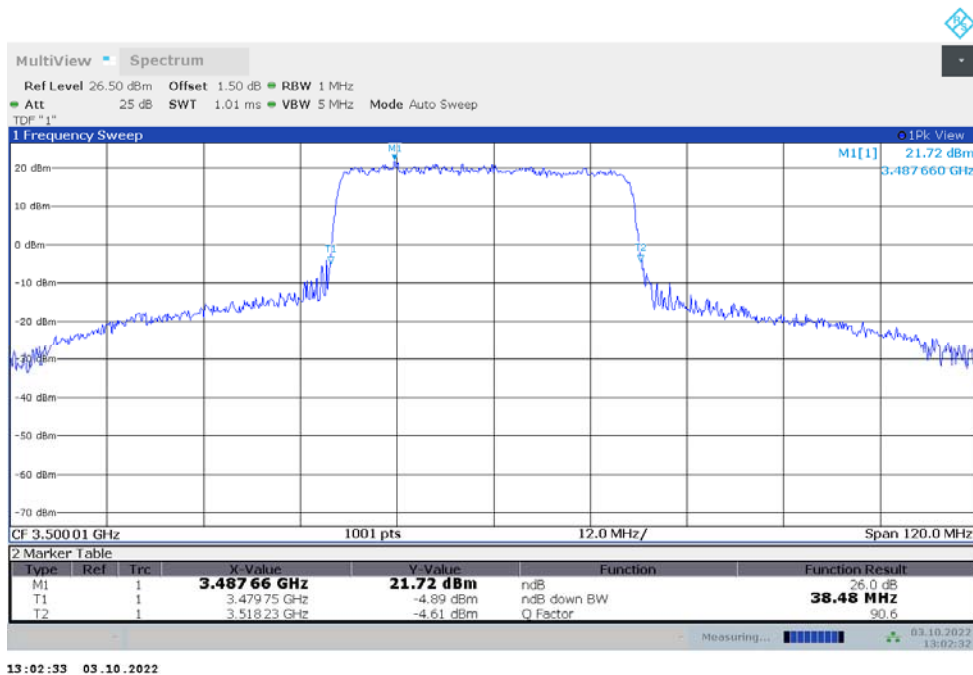
n77L,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	38.960	38.480

n77L,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



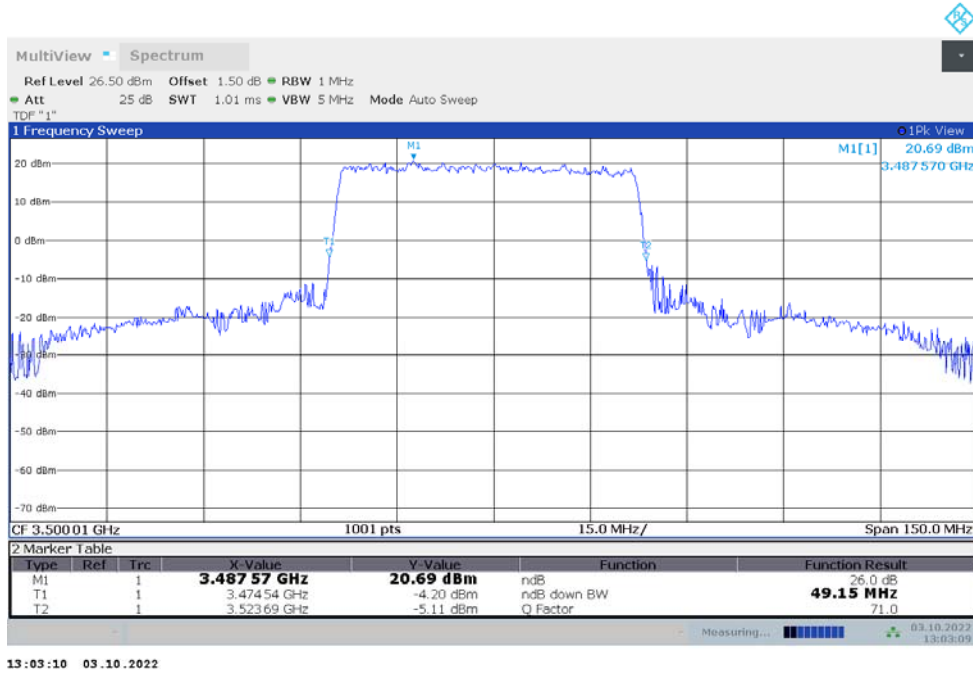
n77L,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



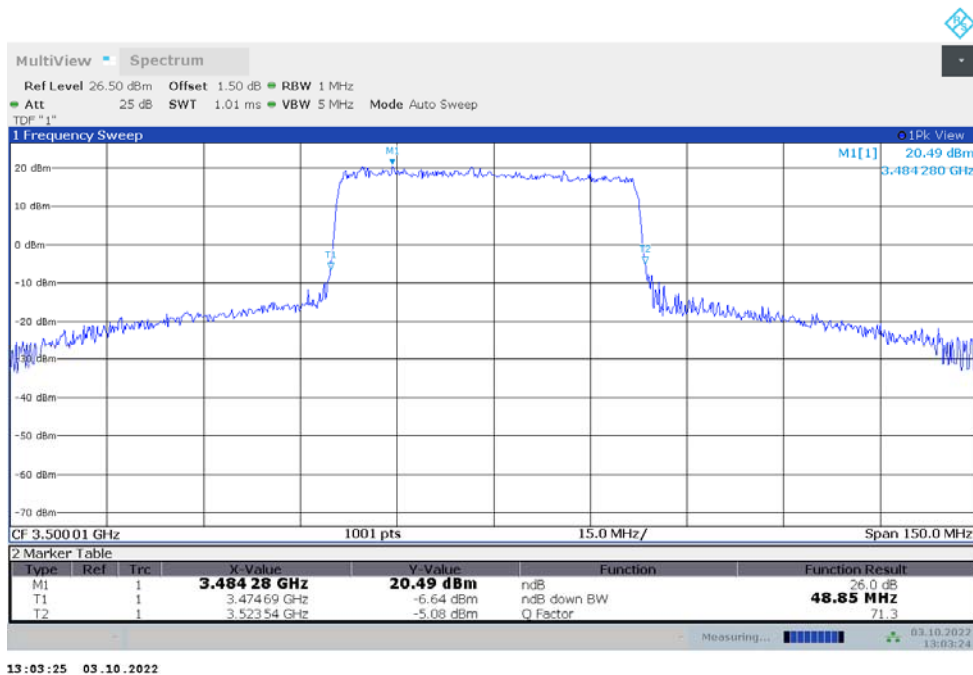
n77L,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	49.150	48.850

n77L,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



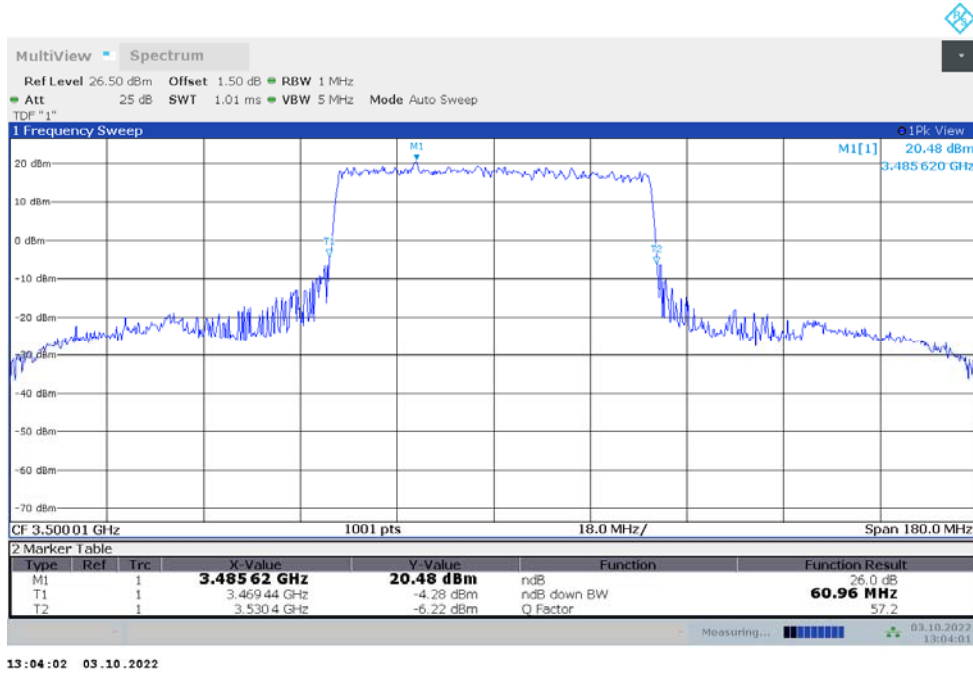
n77L,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



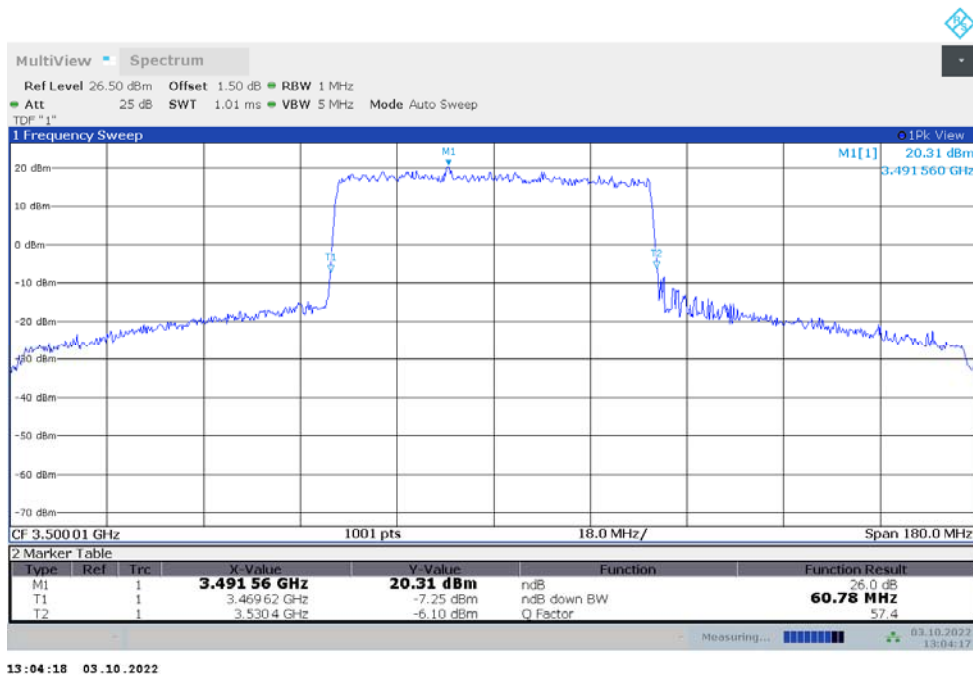
n77L,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	60.960	60.780

n77L,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



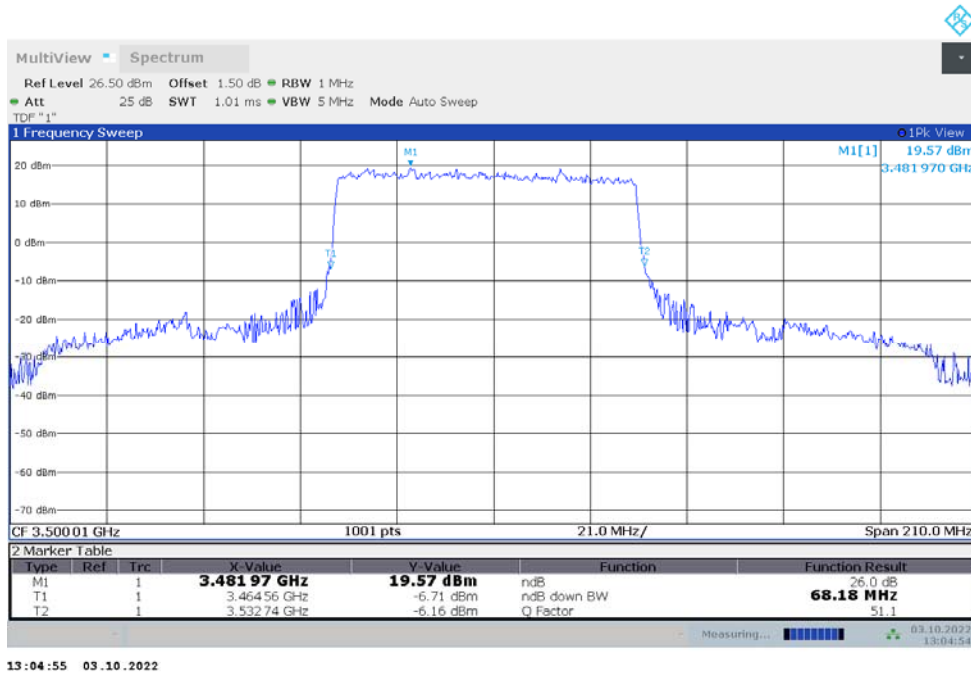
n77L,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



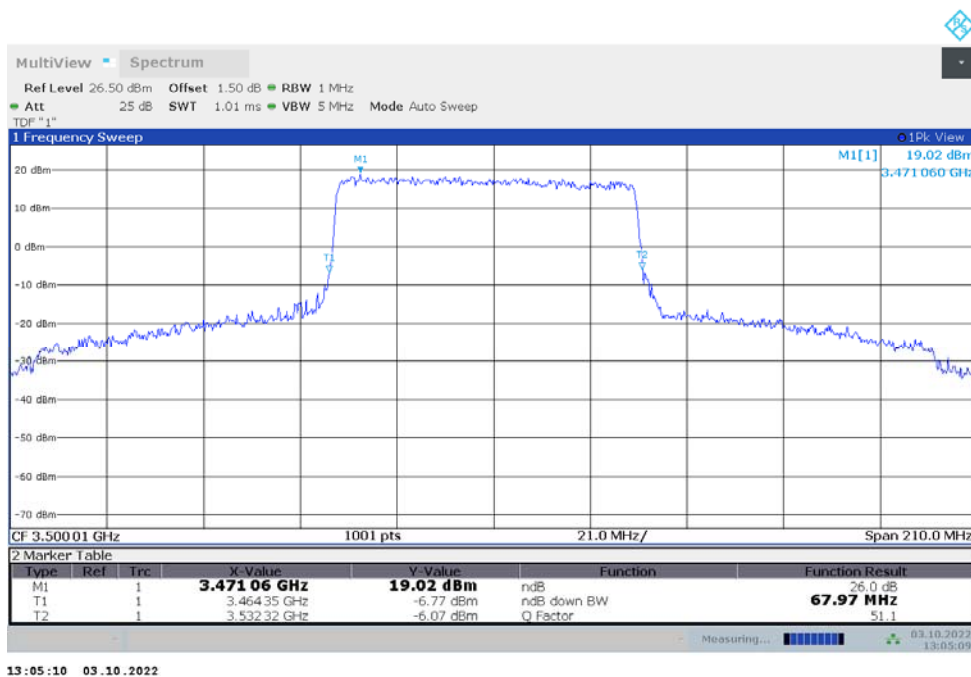
n77L,70MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	68.180	67.970

n77L,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77L,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



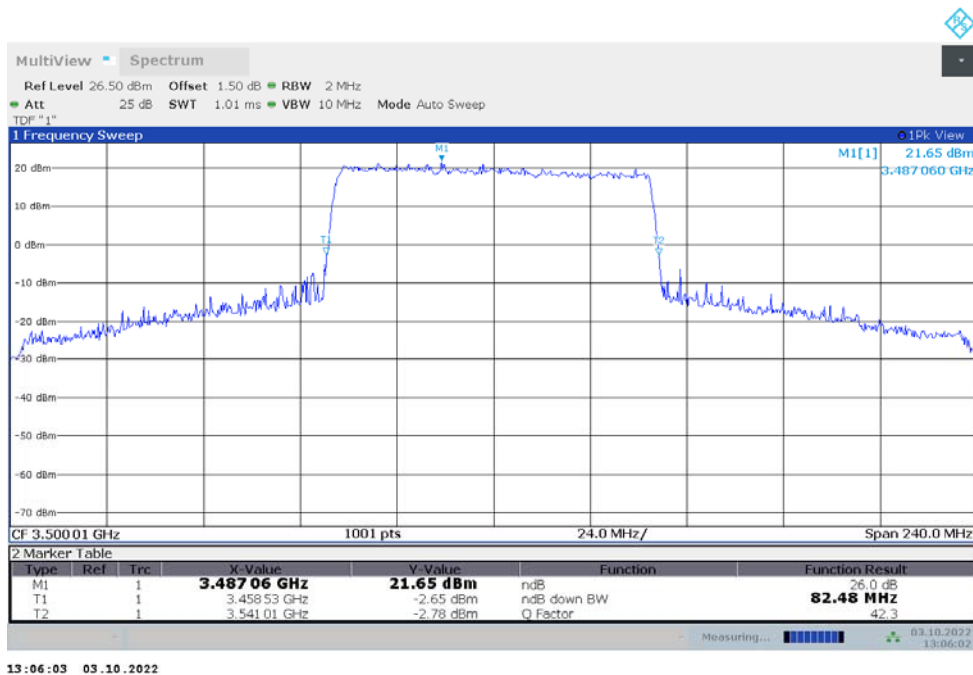
n77L,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	82.480	82.480

n77L,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



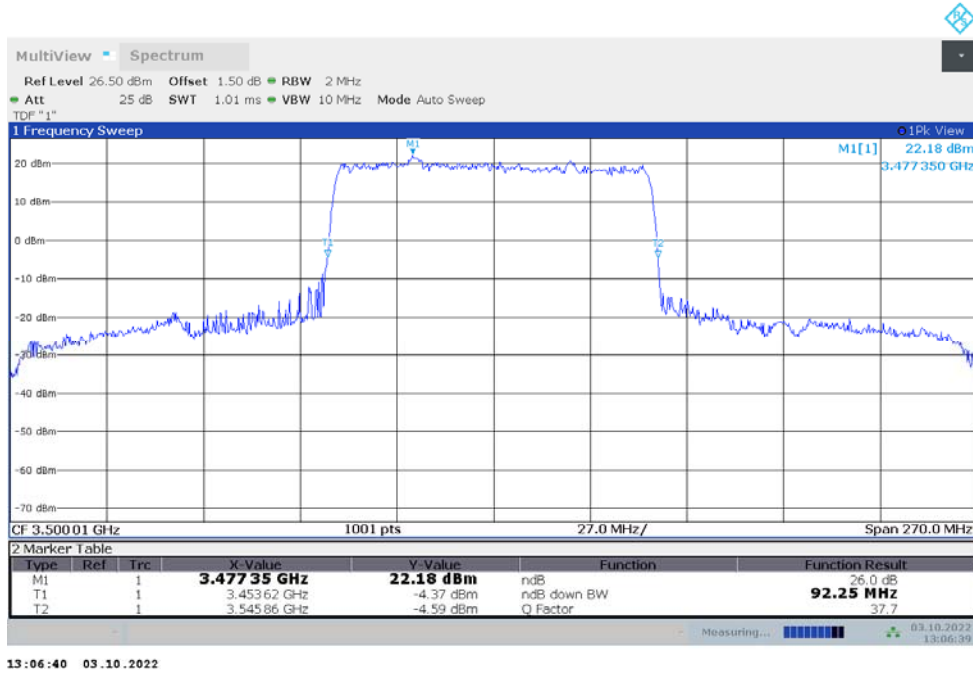
n77L,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



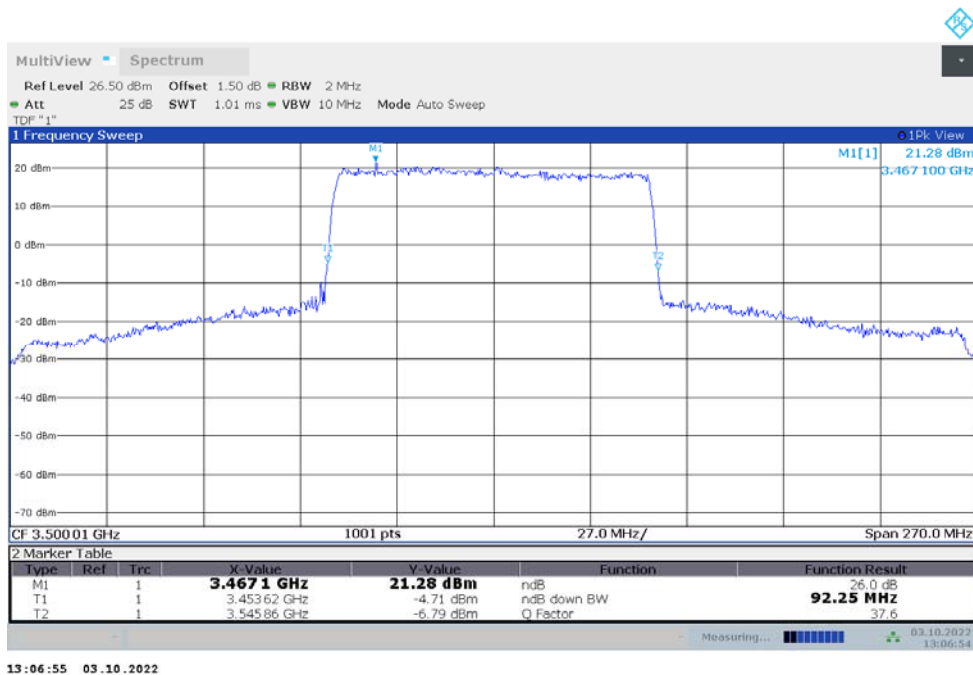
n77L,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	92.250	92.250

n77L,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77L,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

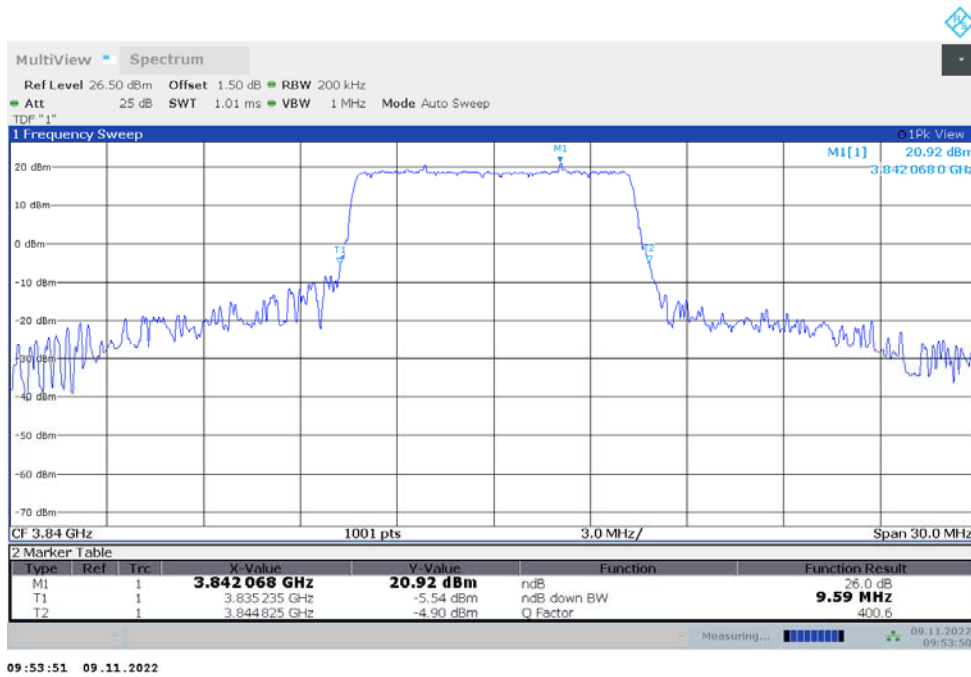


n77H

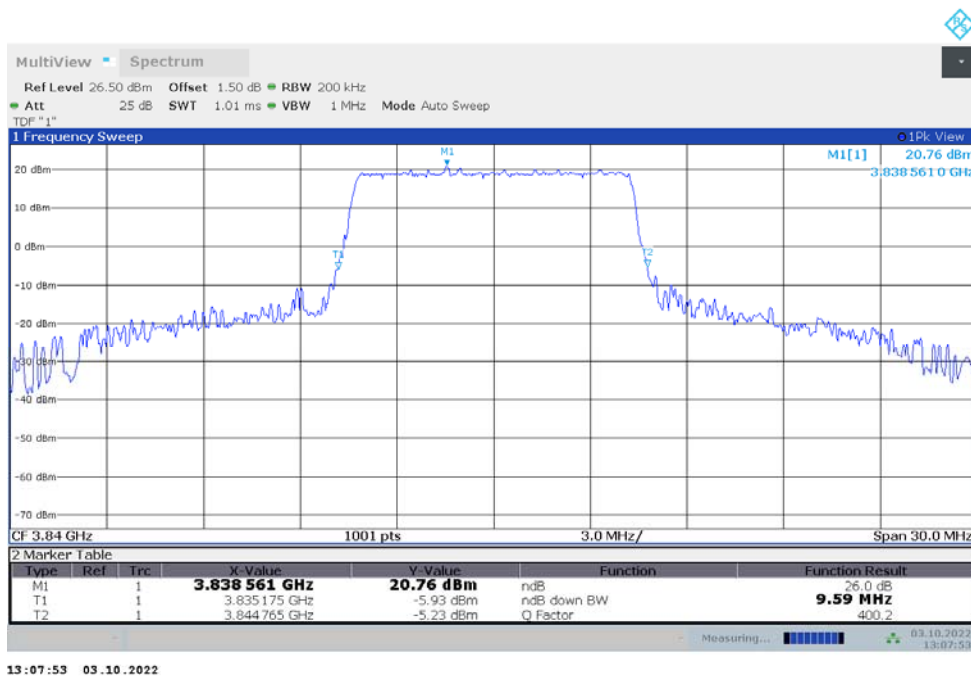
n77H,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	9.590	9.590

n77H,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



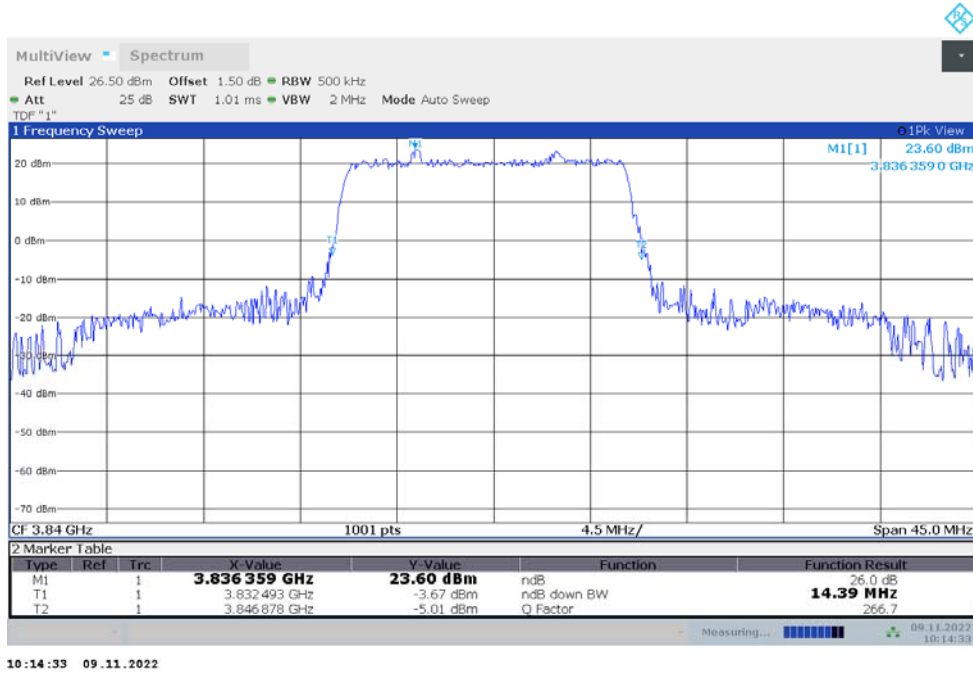
n77H,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



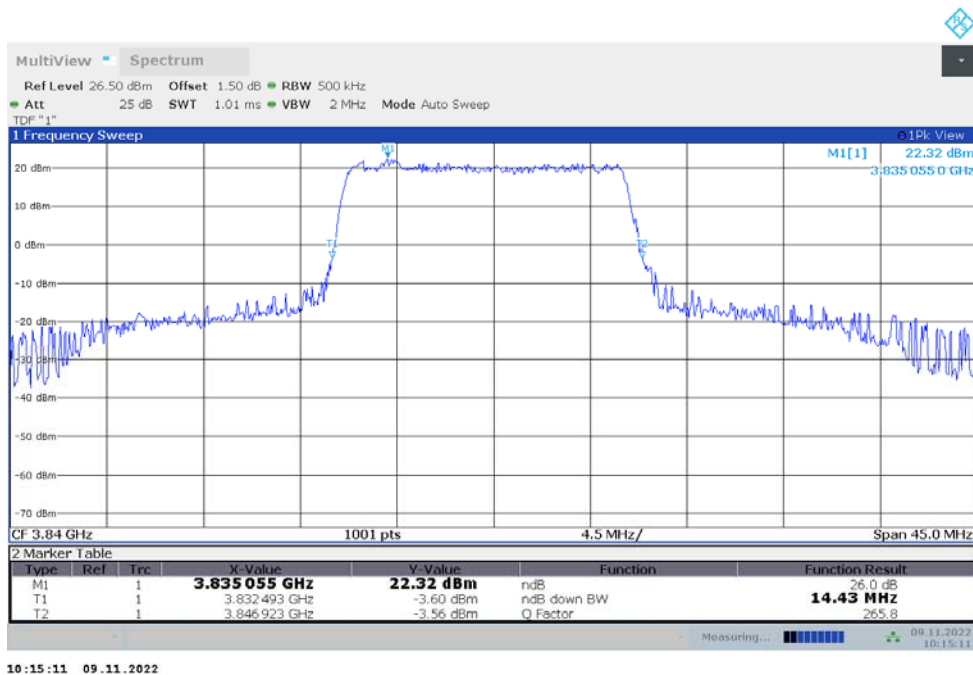
n77H,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	14.386	14.431

n77H,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



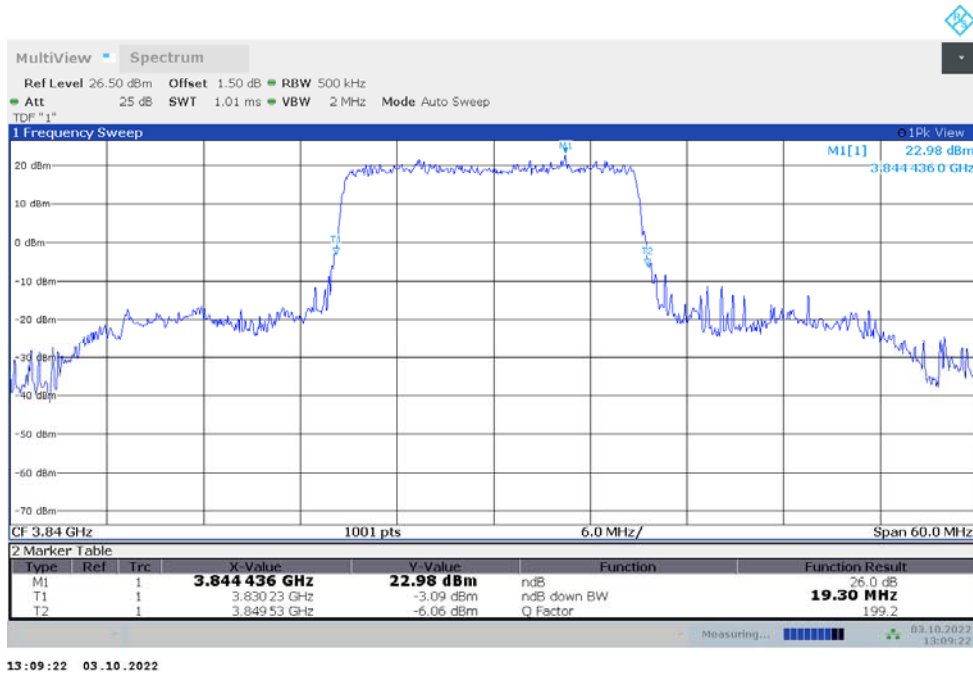
n77H,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



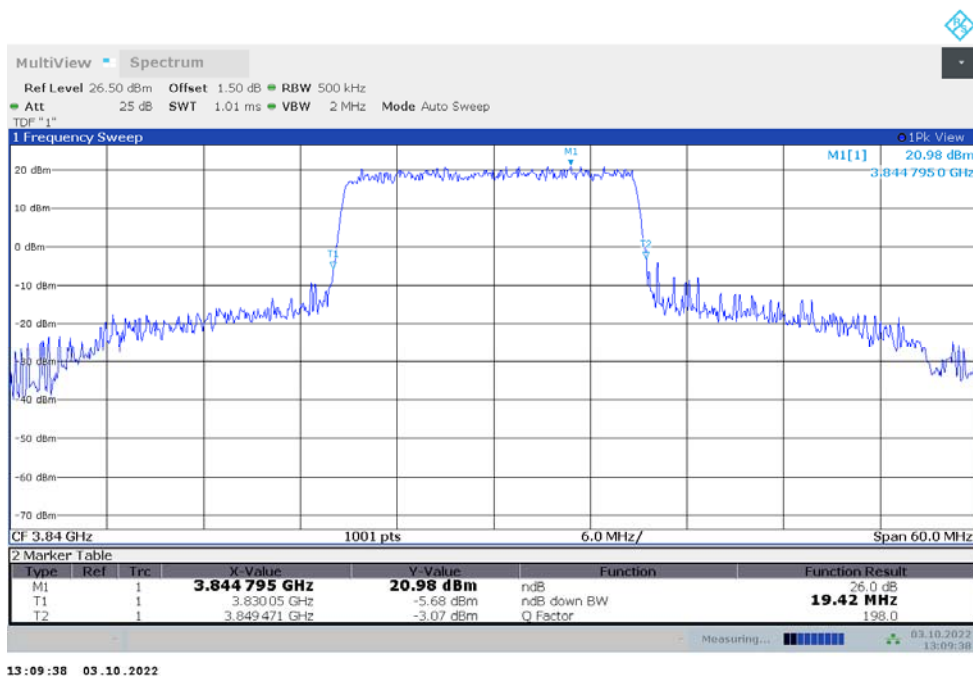
n77H,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	19.301	19.421

n77H,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



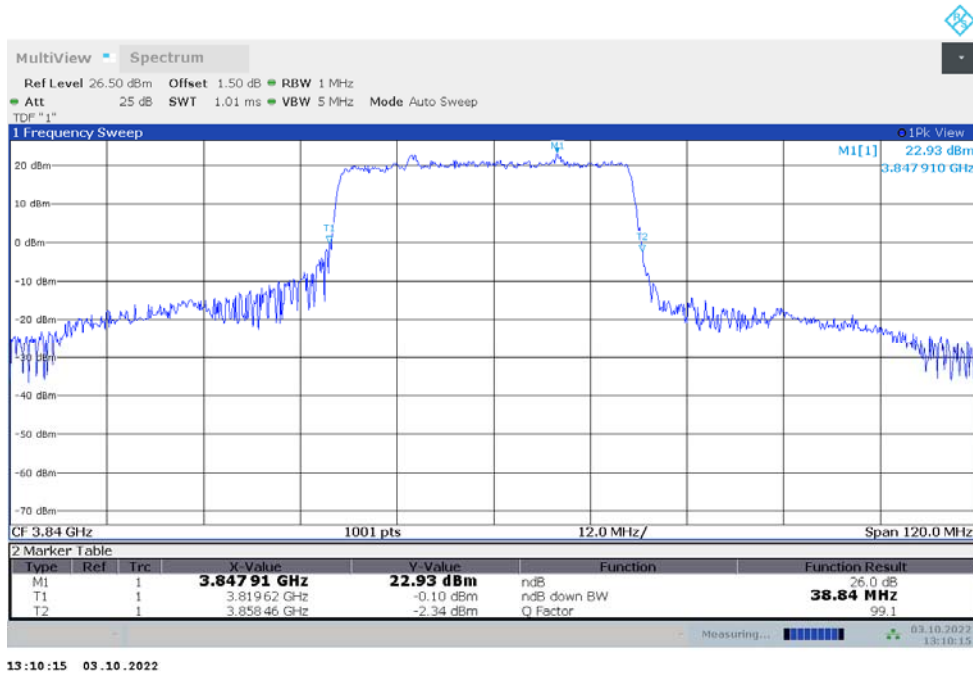
n77H,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



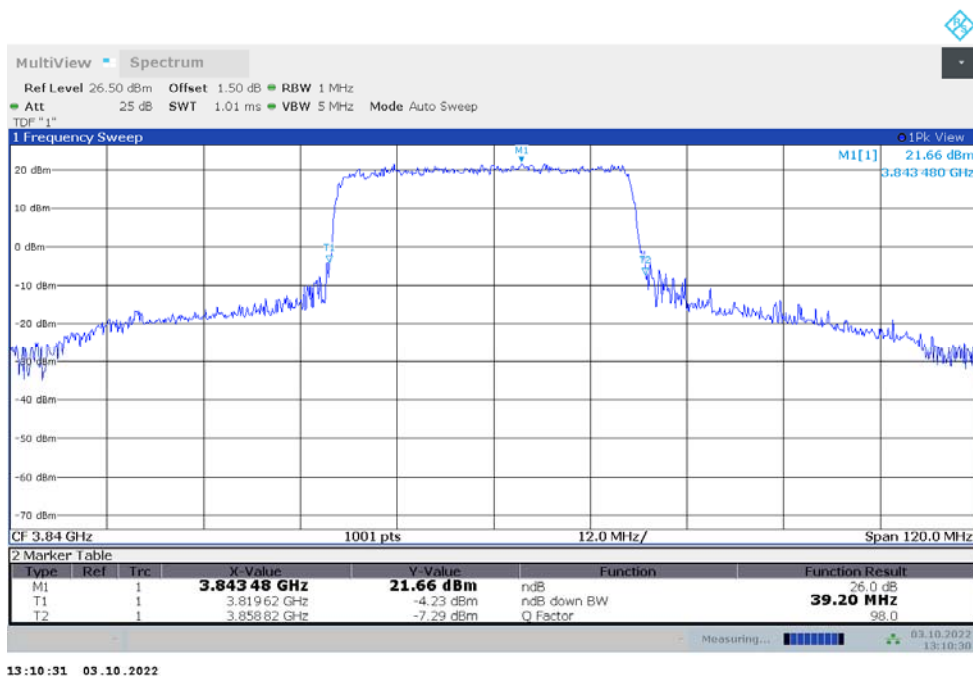
n77H,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	38.840	39.200

n77H,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77H,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



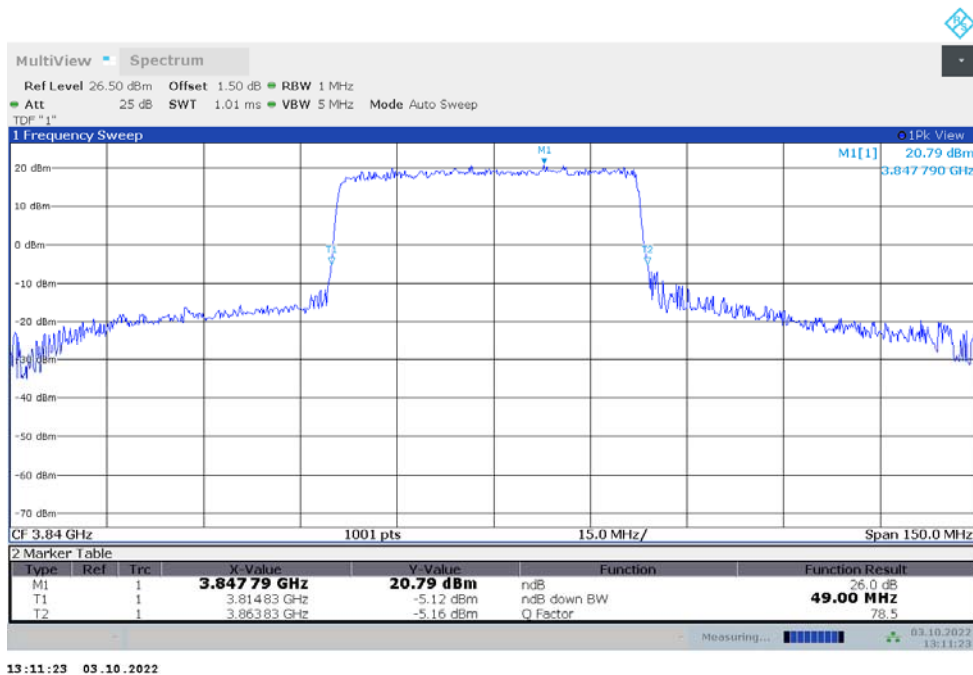
n77H,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	49.150	49.000

n77H,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



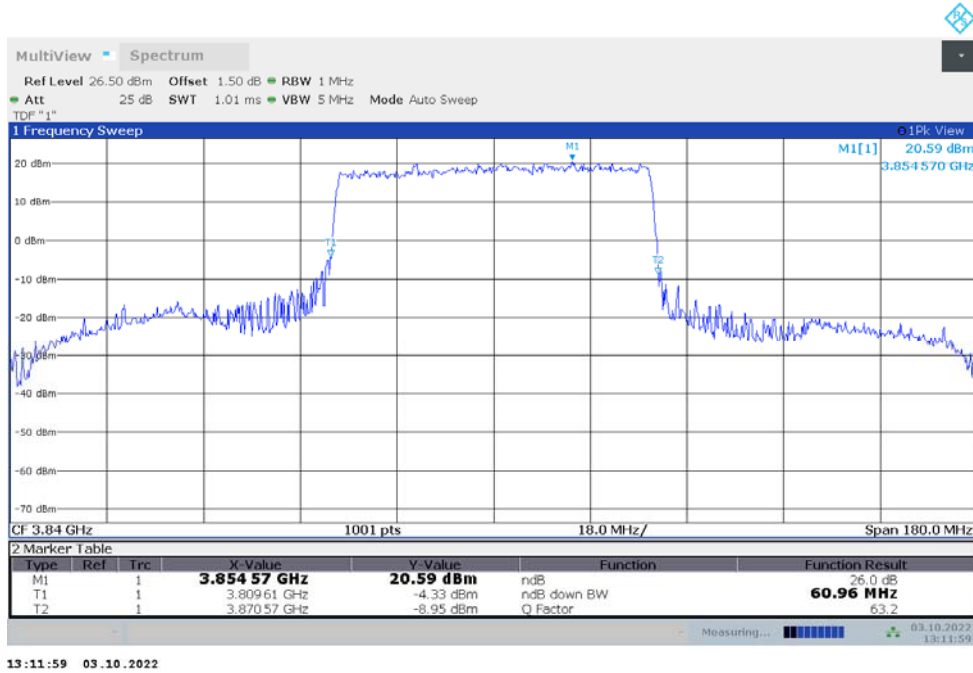
n77H,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



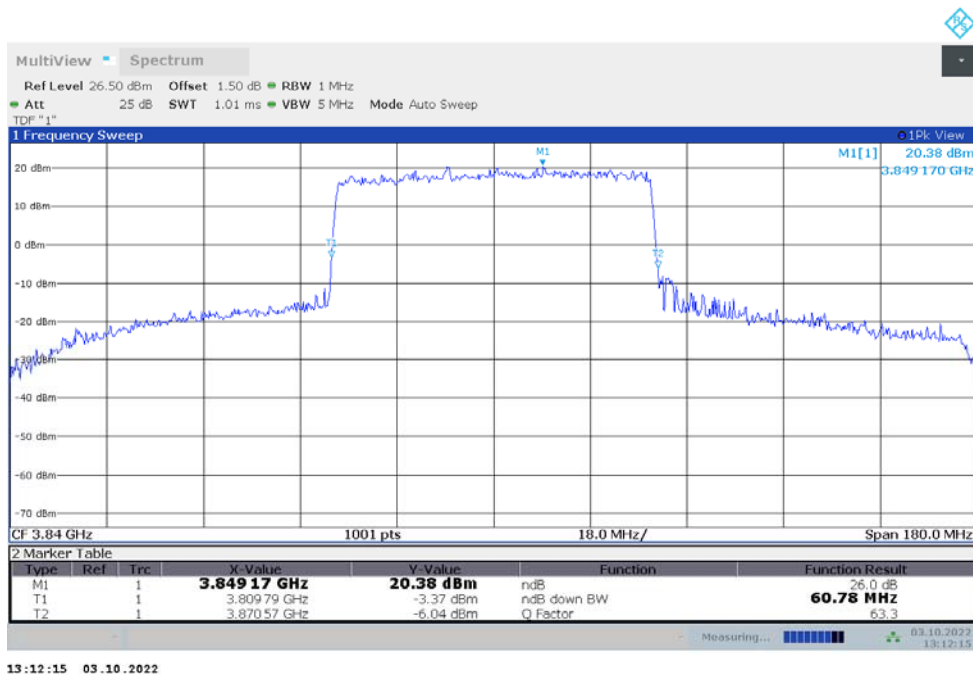
n77H,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	60.960	60.780

n77H,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



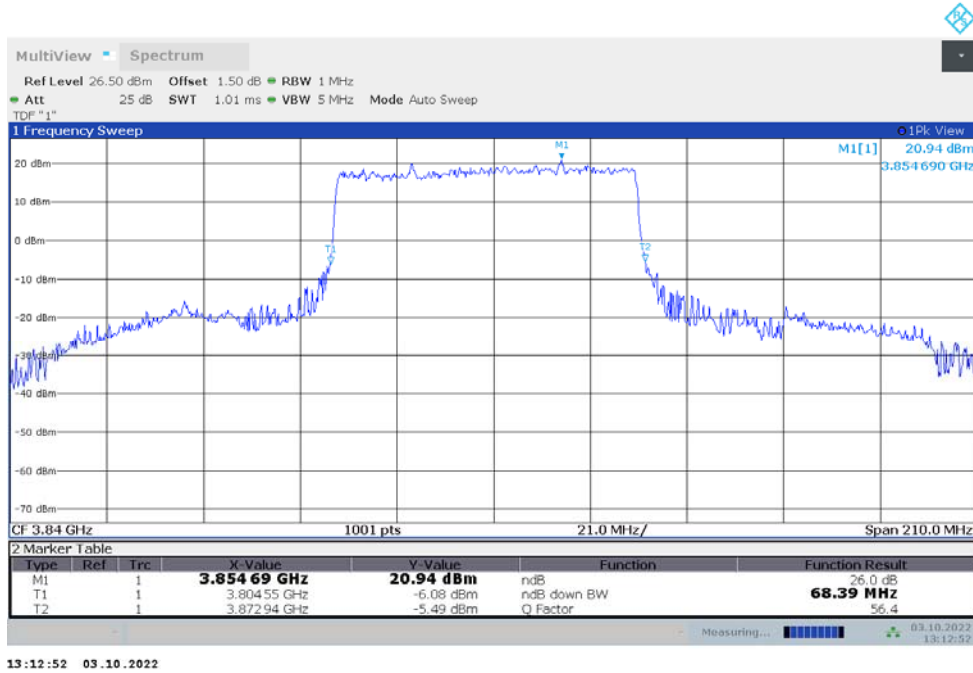
n77H,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



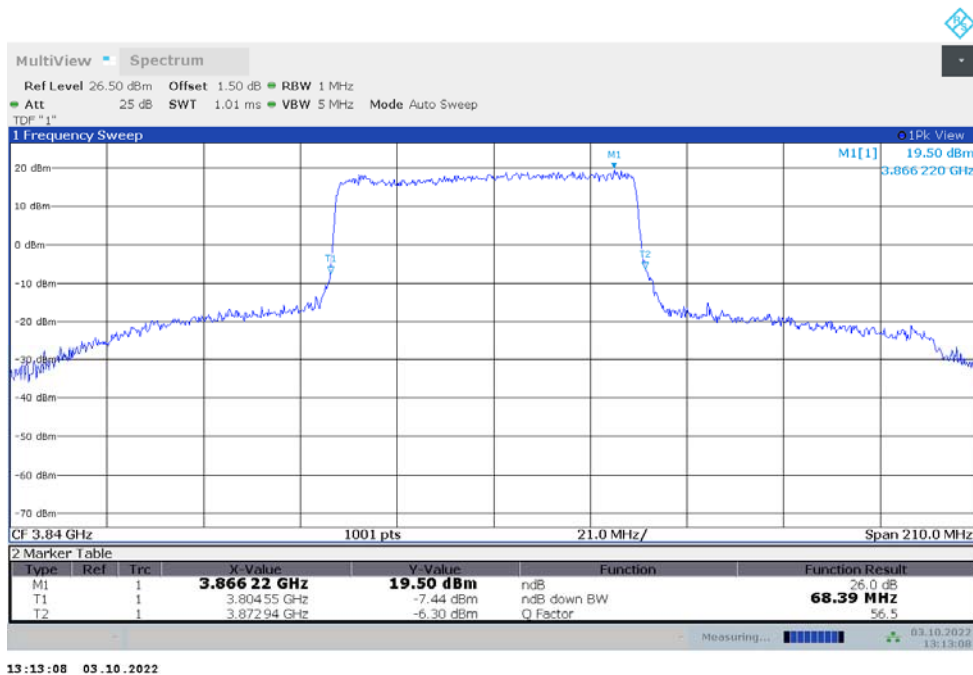
n77H,70MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	68.390	68.390

n77H,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77H,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n77H,80MHz(-26dBc)

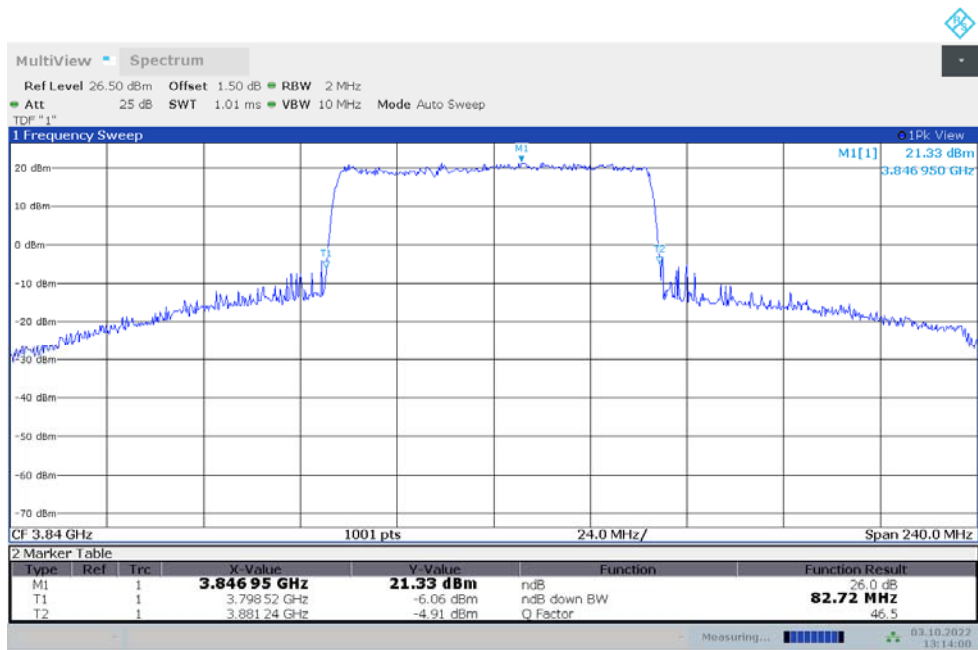
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	82.720	82.720

n77H,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



13:13:45 03.10.2022

n77H,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

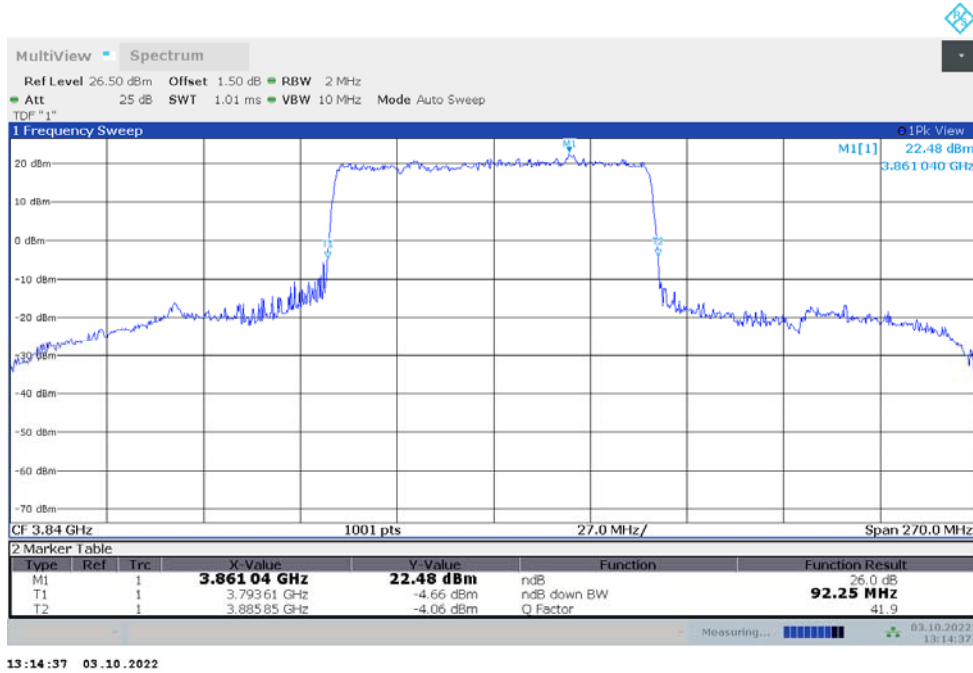


13:14:00 03.10.2022

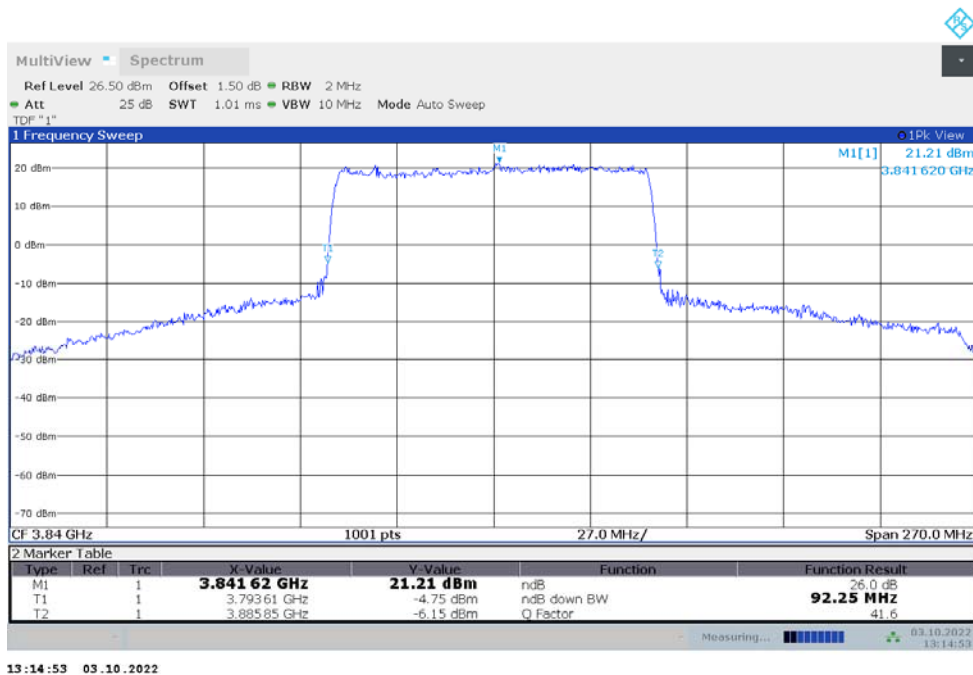
n77H,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	92.250	92.250

n77H,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



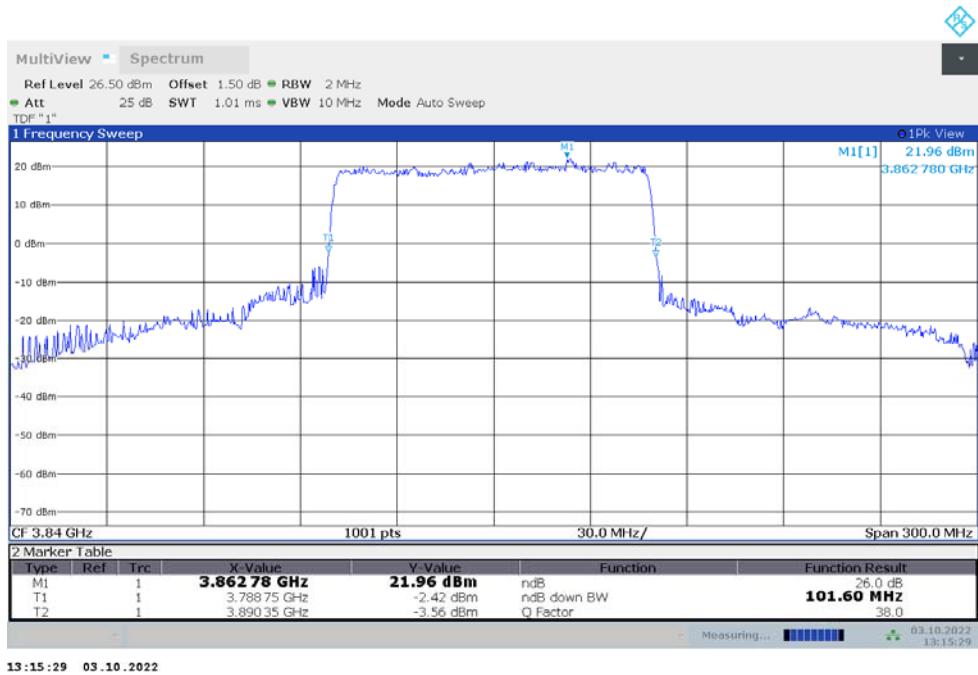
n77H,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n77H,100MHz(-26dBc)

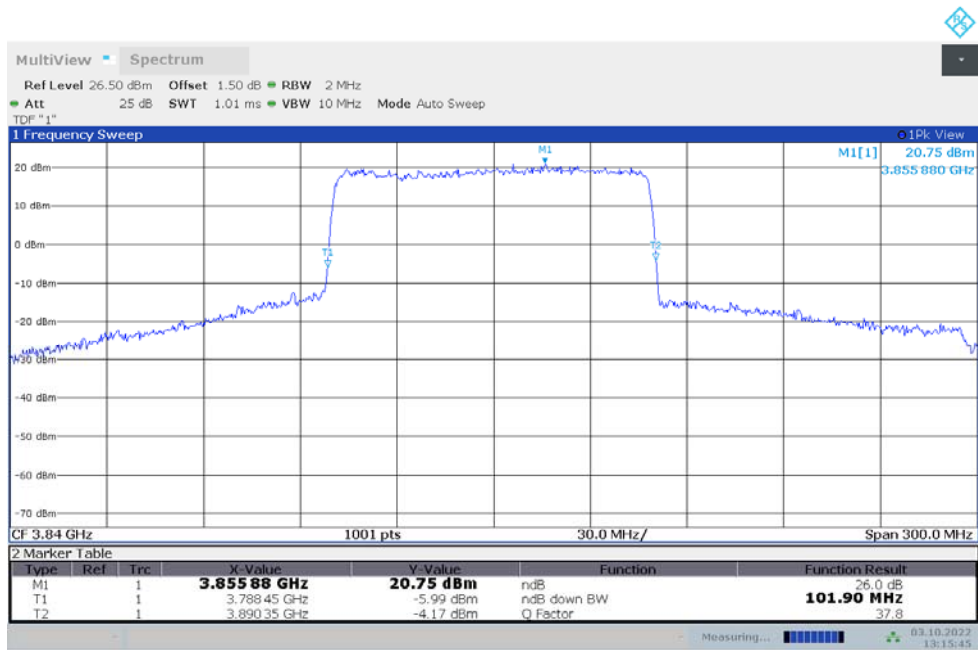
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	101.600	101.900

n77H,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



13:15:29 03.10.2022

n77H,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



13:15:45 03.10.2022

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 0.626 \text{ kHz}$, $k = 2$.

A.5 Band Edge Compliance

A.5.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 96.41(e) states for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 27.53(n) states for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

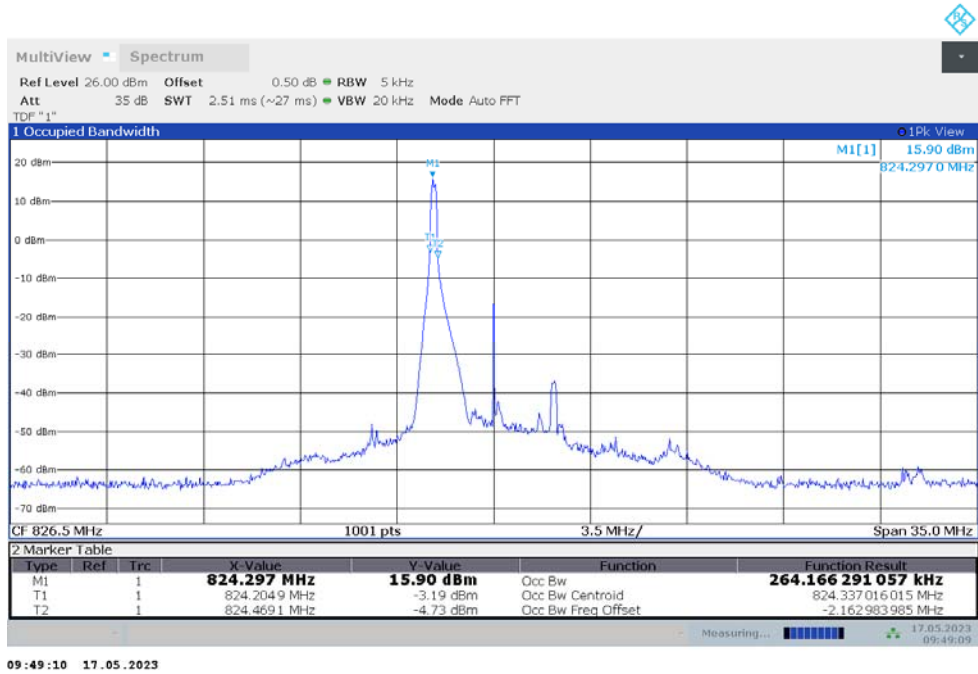


Part 27.53(l) states for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

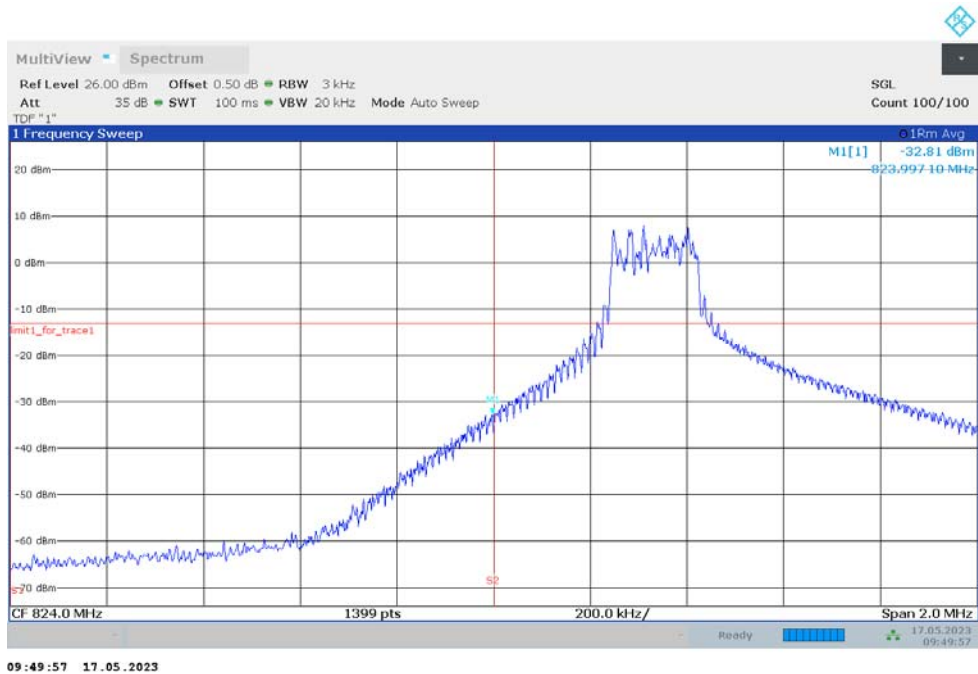
Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

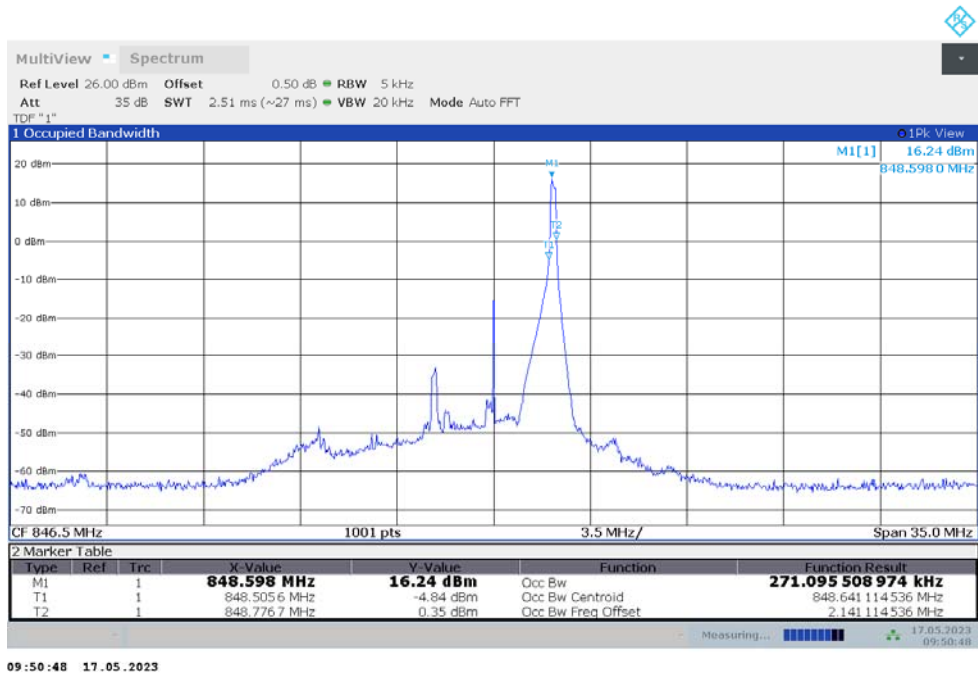
A.5.2 Measurement result
NR n5
OBW: 1RB-LOW_offset



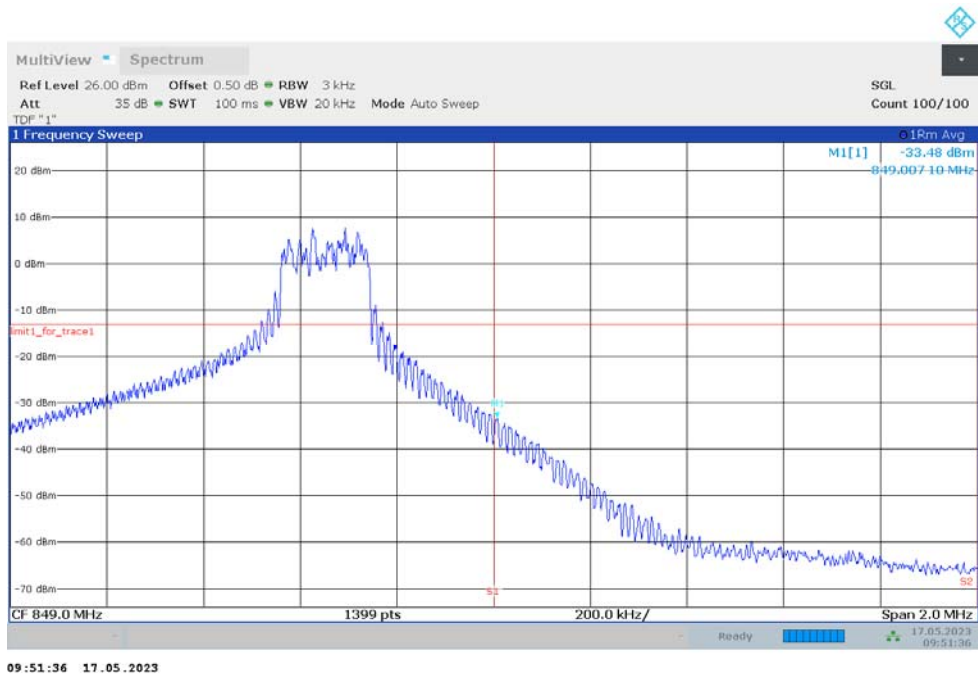
LOW BAND EDGE BLOCK-1RB-LOW_offset



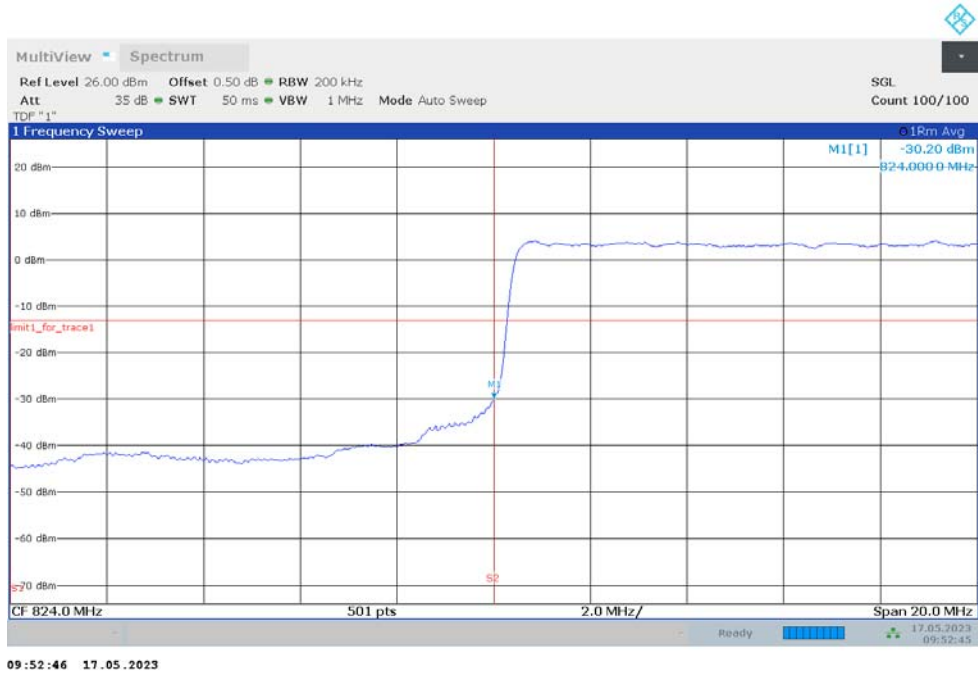
OBW: 1RB-HIGH_offset



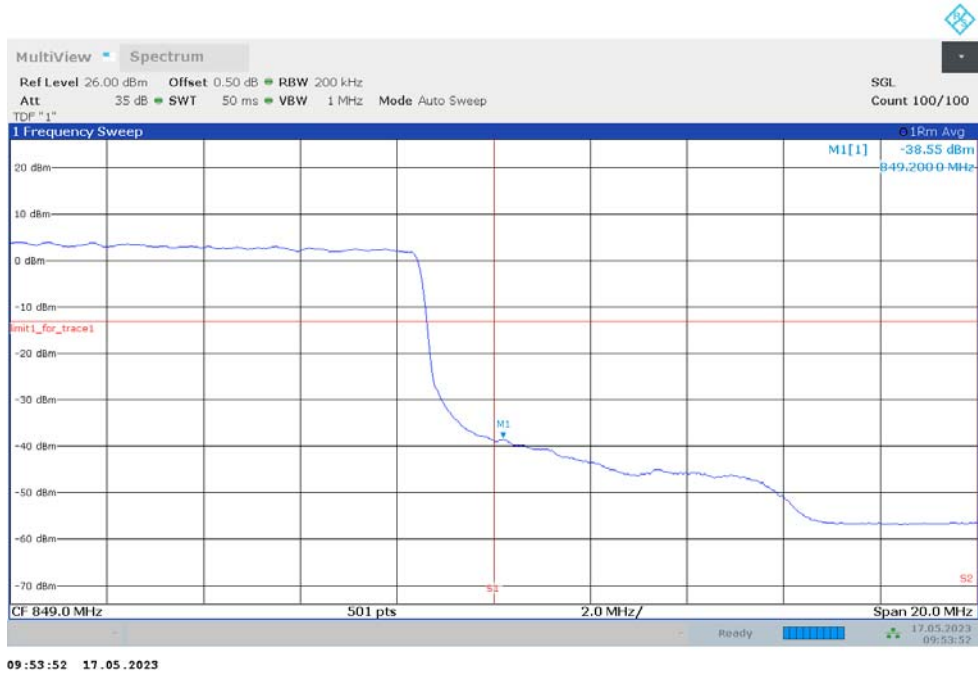
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB

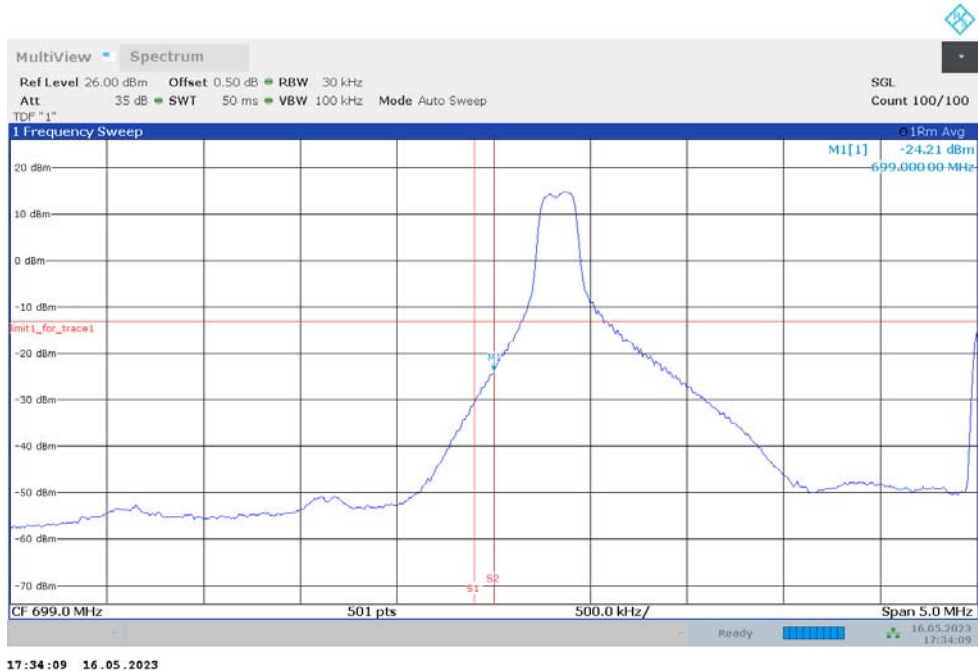


NR n12

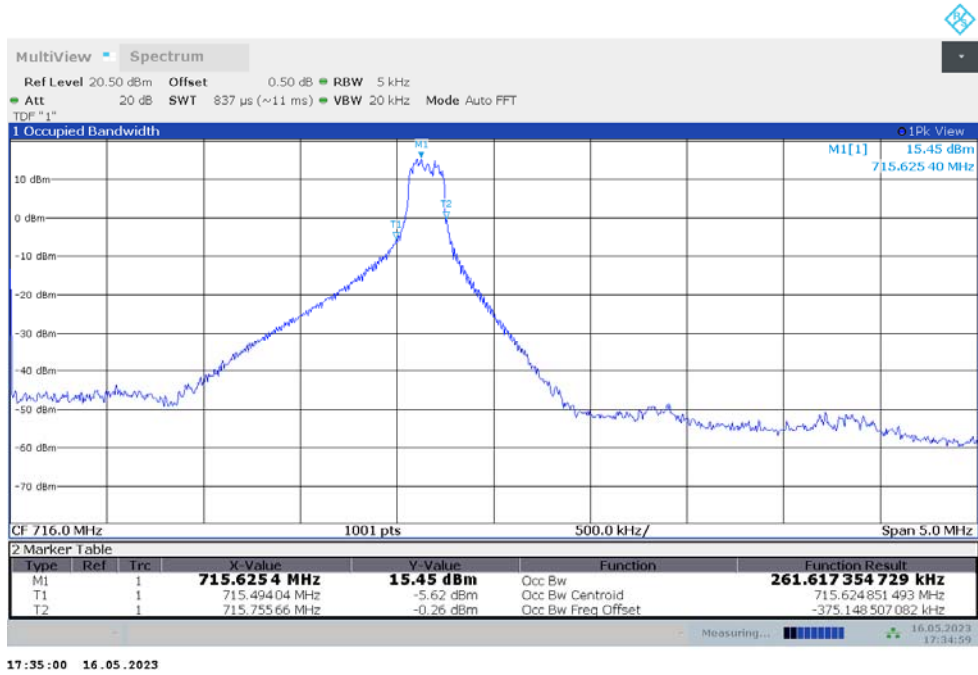
OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset

