

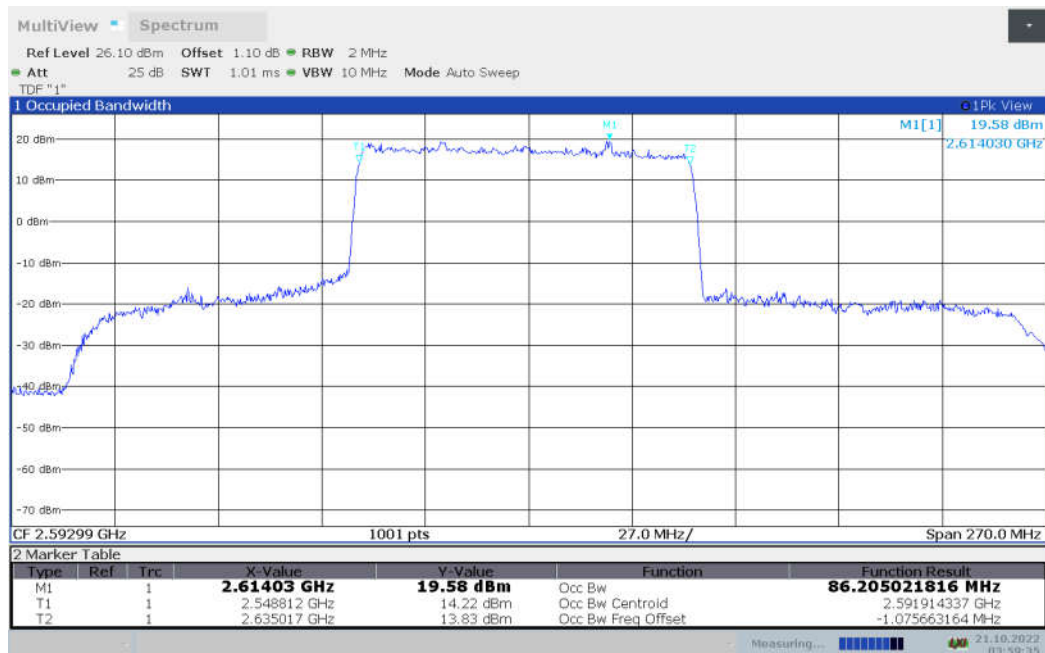


No. I22N02158-RF-NR

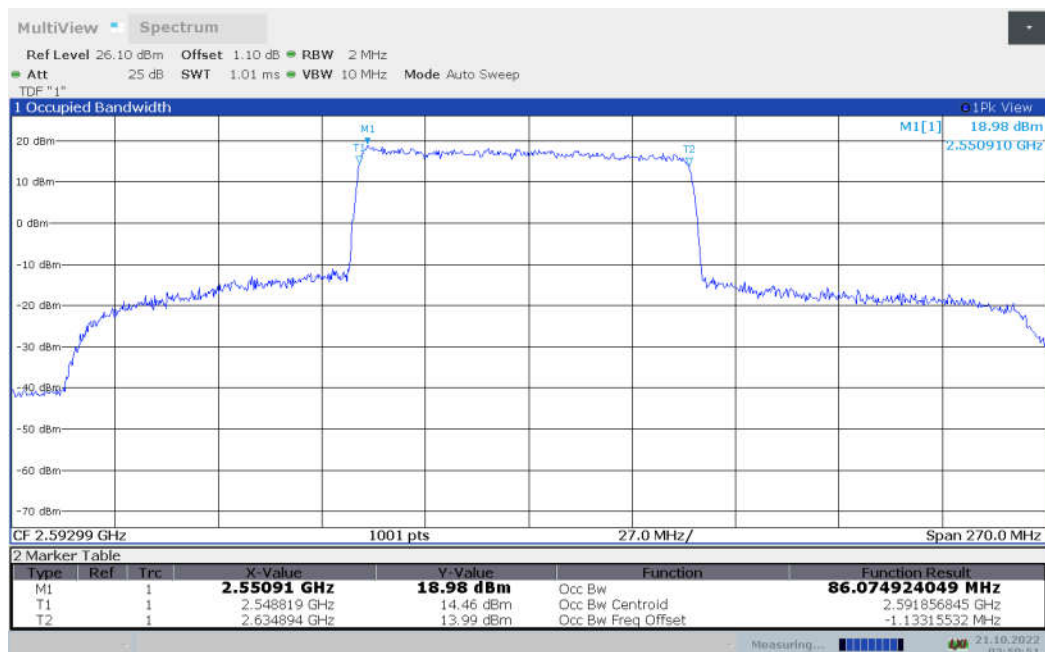
n41,90MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	86.205	86.075

n41,90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n41,90MHz Bandwidth,DFT-s-QPSK (99% BW)



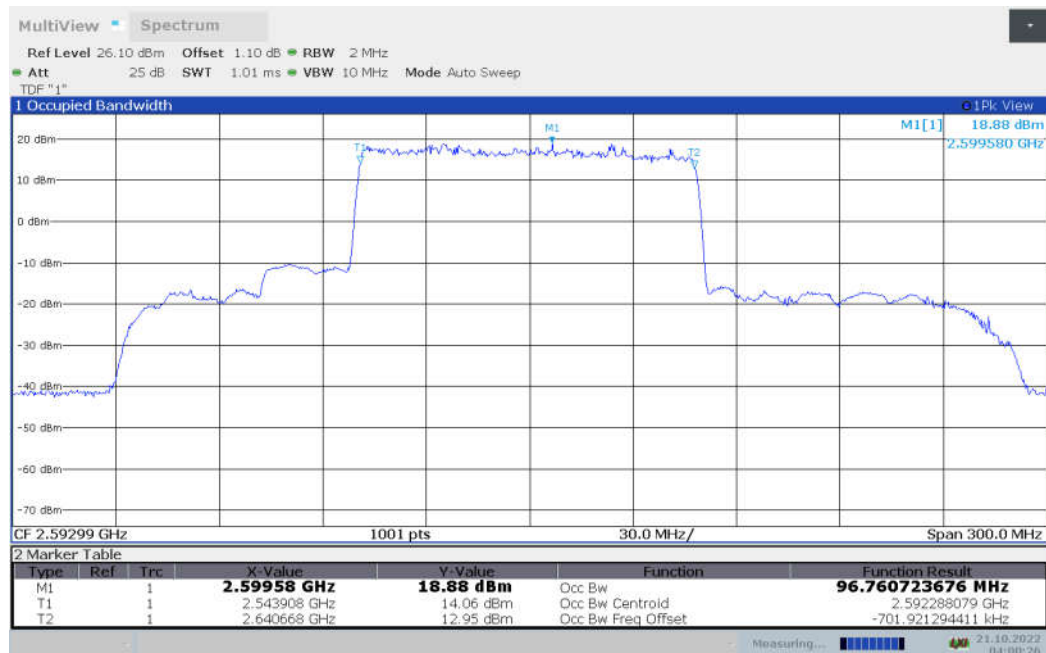


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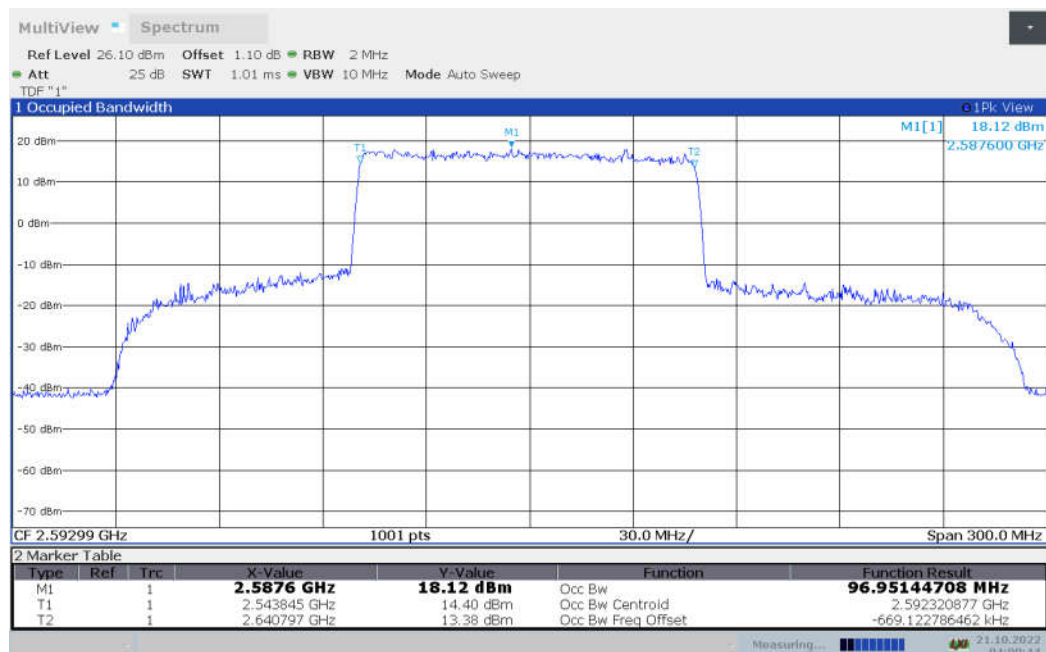
n41,100MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	96.761	96.951

n41,100MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n41,100MHz Bandwidth,DFT-s-QPSK (99% BW)





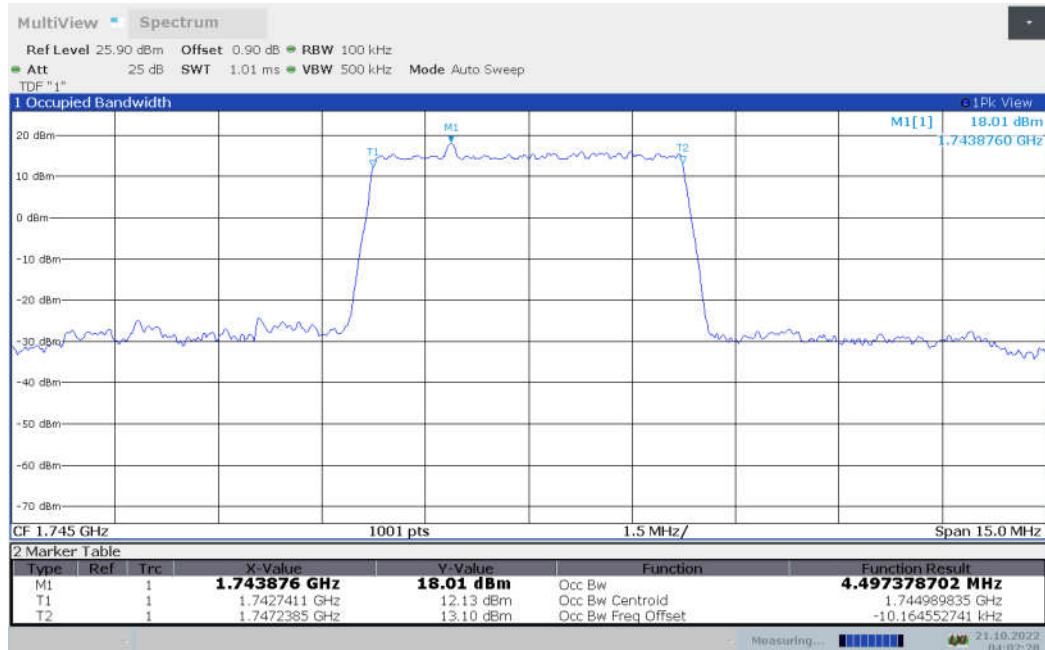
No. I22N02158-RF-NR

DC_5A-n66A

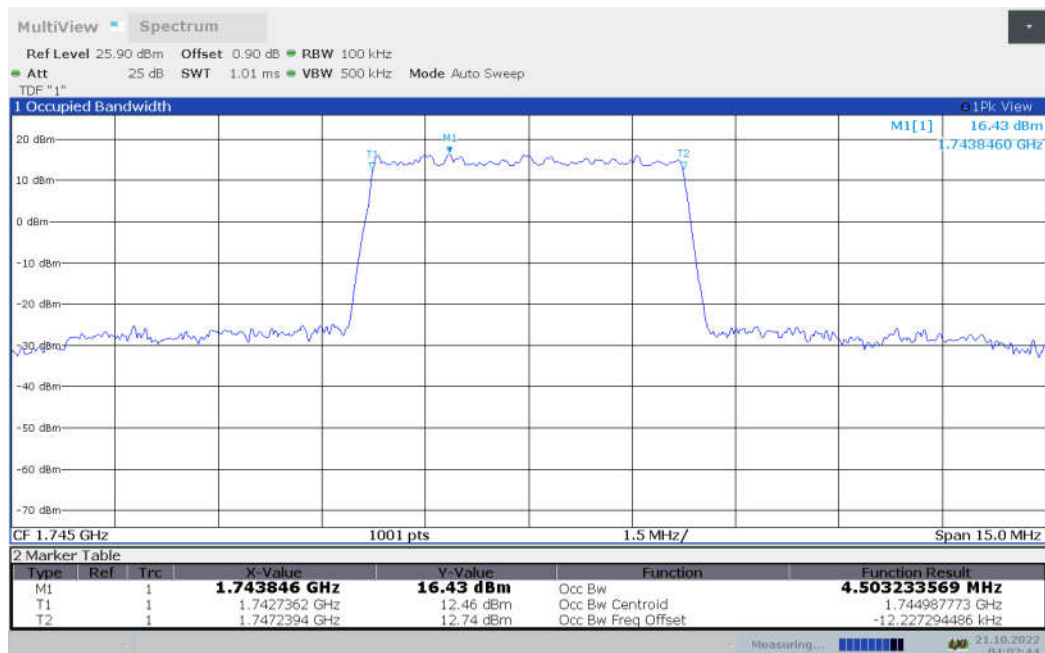
DC_5A-n66A,5MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	4.497	4.503

DC_5A-n66A,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



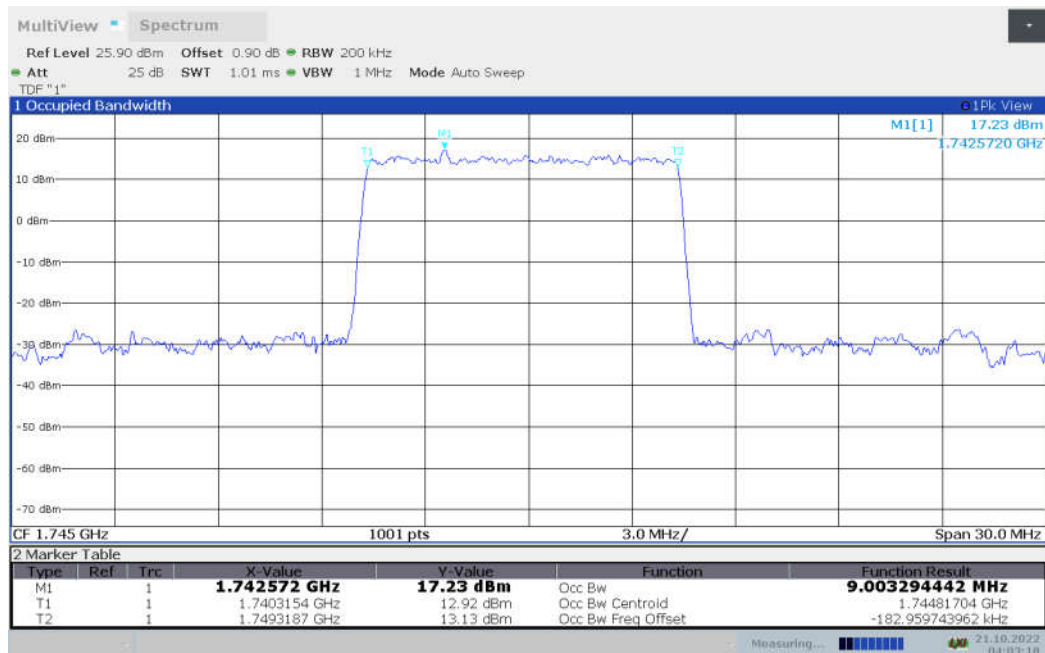
DC_5A-n66A,5MHz Bandwidth,DFT-s-QPSK (99% BW)



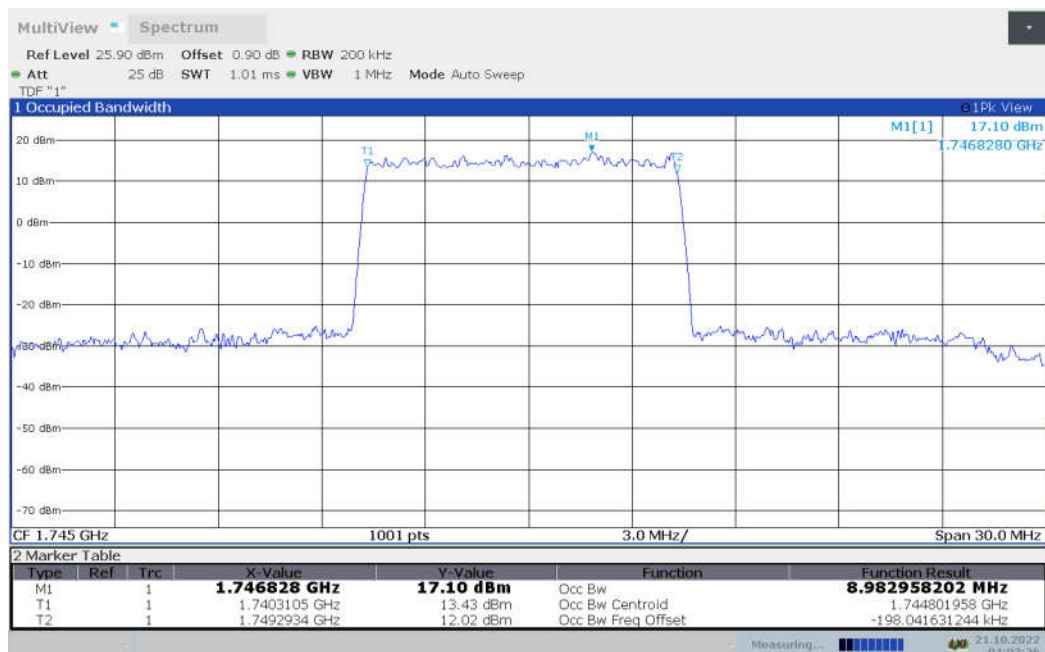
DC_5A-n66A,10MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	9.003	8.983

DC_5A-n66A,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



DC_5A-n66A,10MHz Bandwidth,DFT-s-QPSK (99% BW)



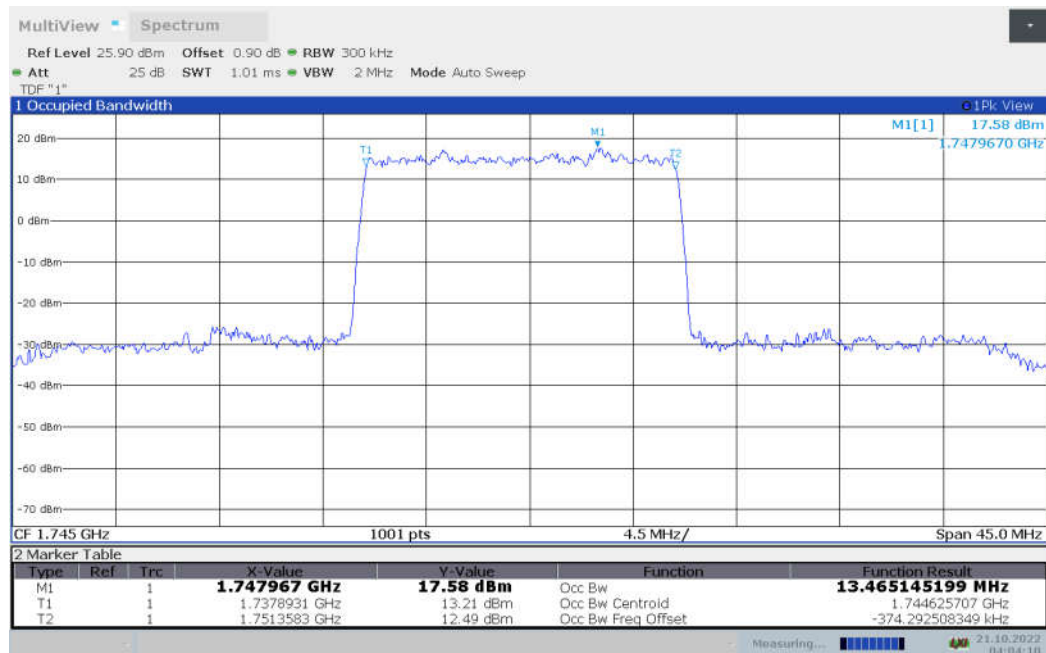


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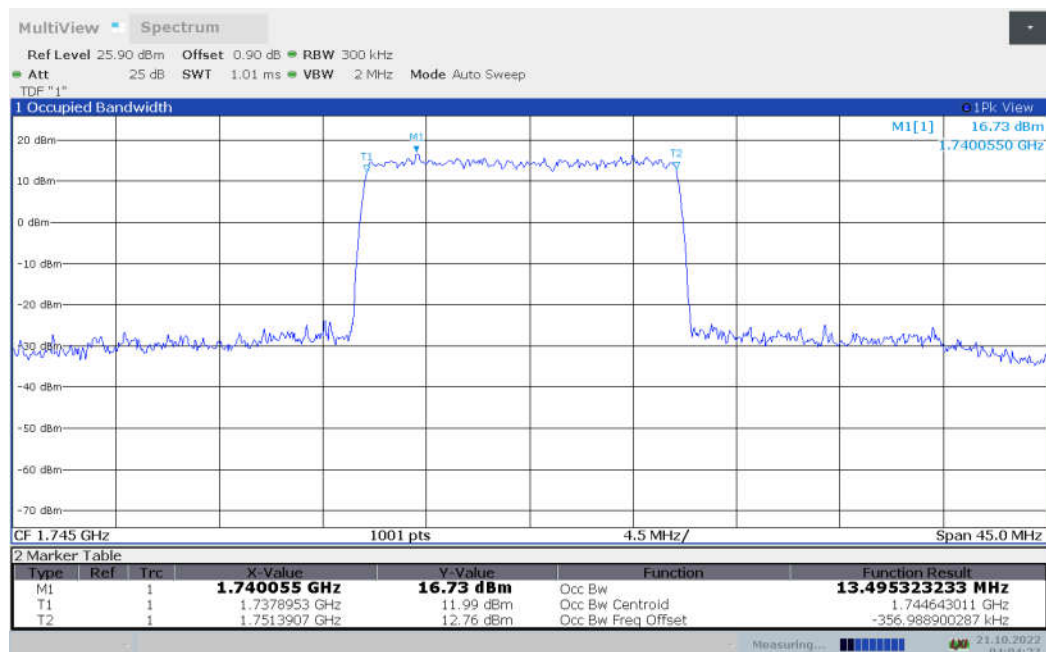
DC_5A-n66A,15MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	13.465	13.495

DC_5A-n66A,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



DC_5A-n66A,15MHz Bandwidth,DFT-s-QPSK (99% BW)



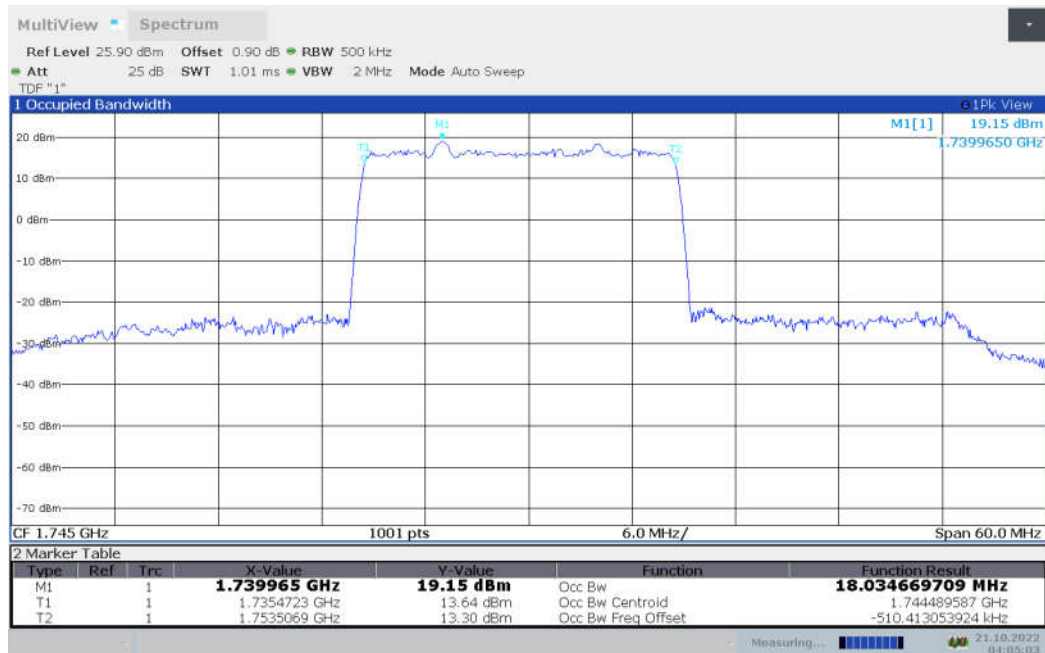


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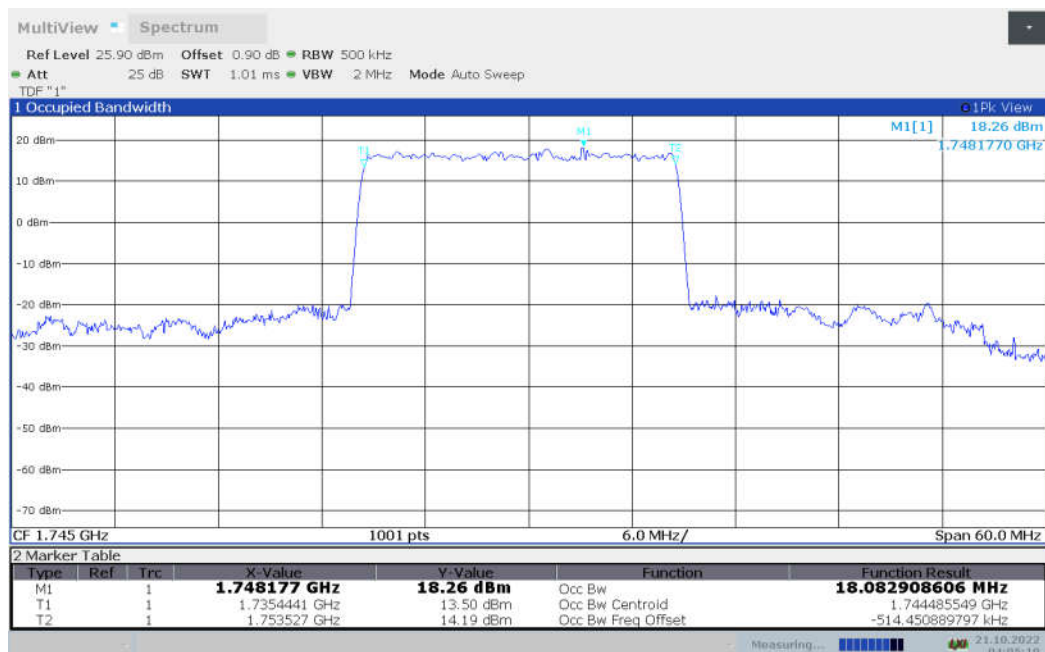
DC_5A-n66A,20MHz(99% BW)

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	18.035	18.083

DC_5A-n66A,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



DC_5A-n66A,20MHz Bandwidth,DFT-s-QPSK (99% BW)



Note: Expanded measurement uncertainty is $U = 3428$ Hz, $k = 2$



A.5 EMISSION BANDWIDTH

Reference

FCC: CFR Part 2.1049, 22.917, 24.238, 27.53.

A.5.1 Measurement Procedure

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.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth 3 dB (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 26dB bandwidth function of the spectrum analyzer and report the measured bandwidth.

A.5.2 Emission Bandwidth Results

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.



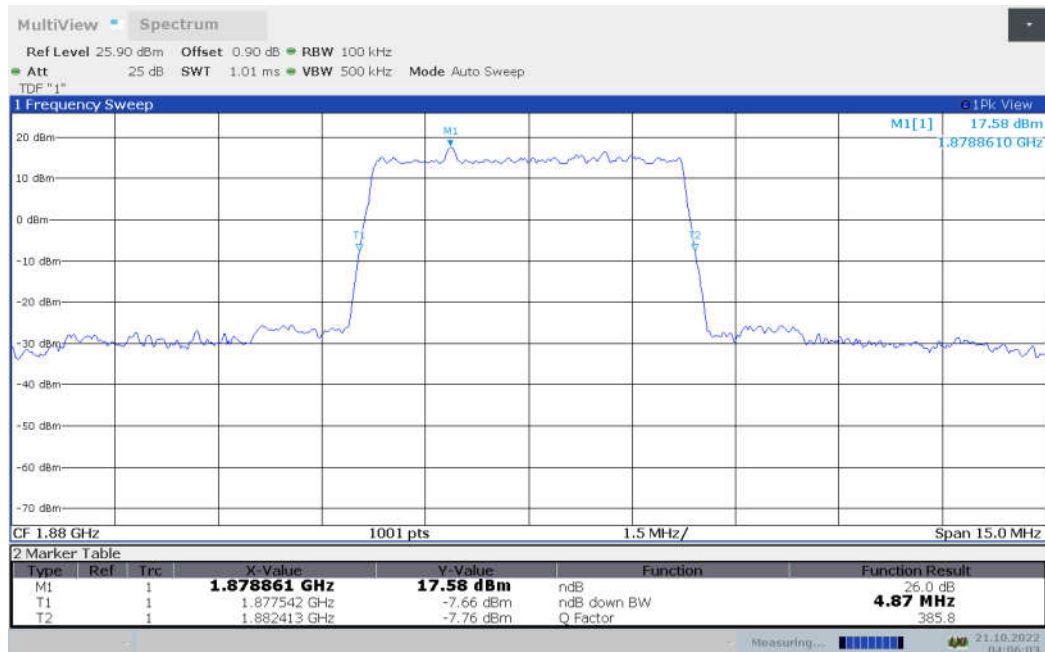
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n2

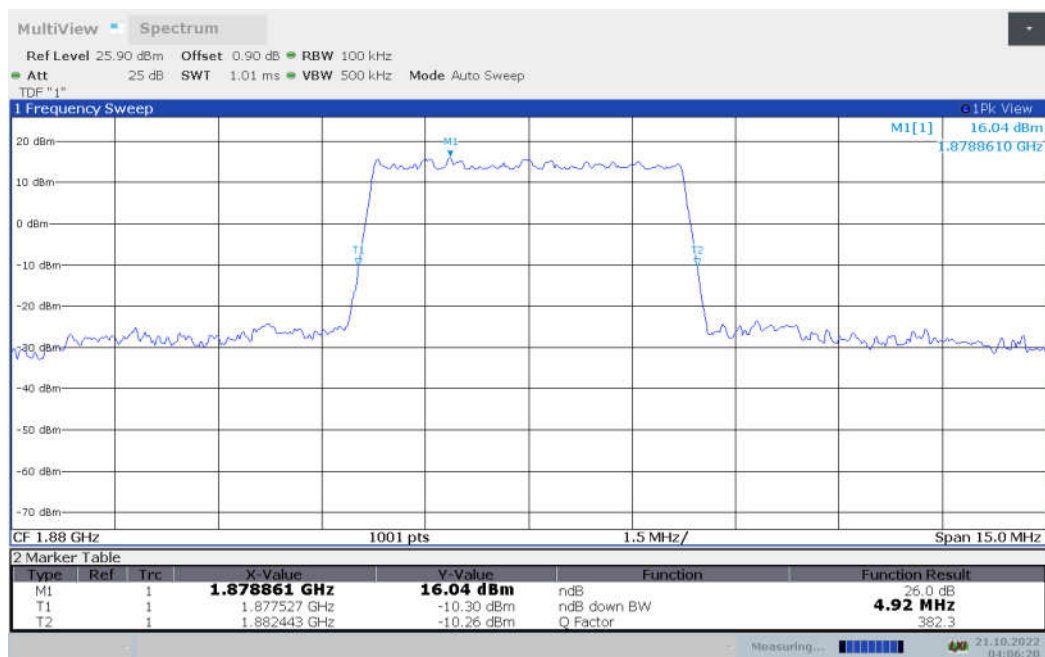
n2,5MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	4.870	4.915

n2,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

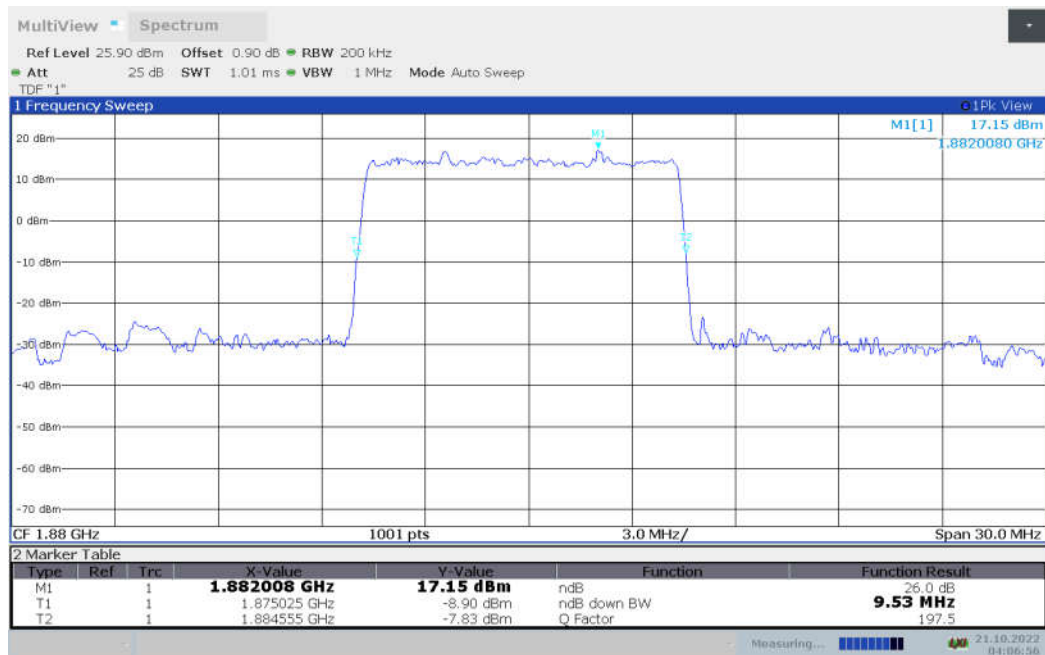
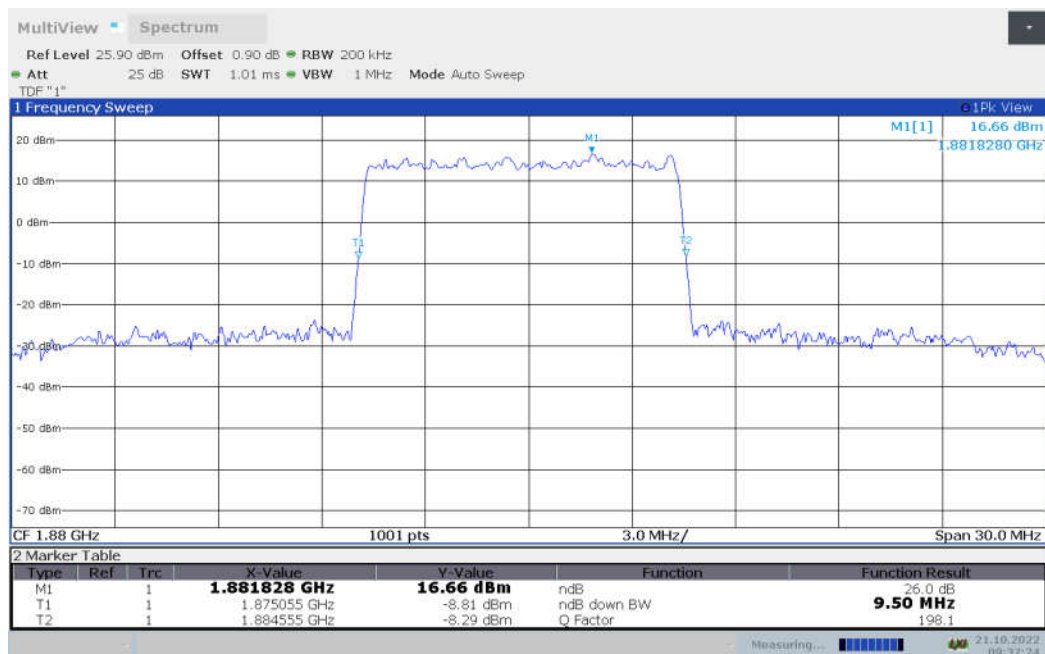


n2,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n2,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	9.530	9.500

n2,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n2,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)


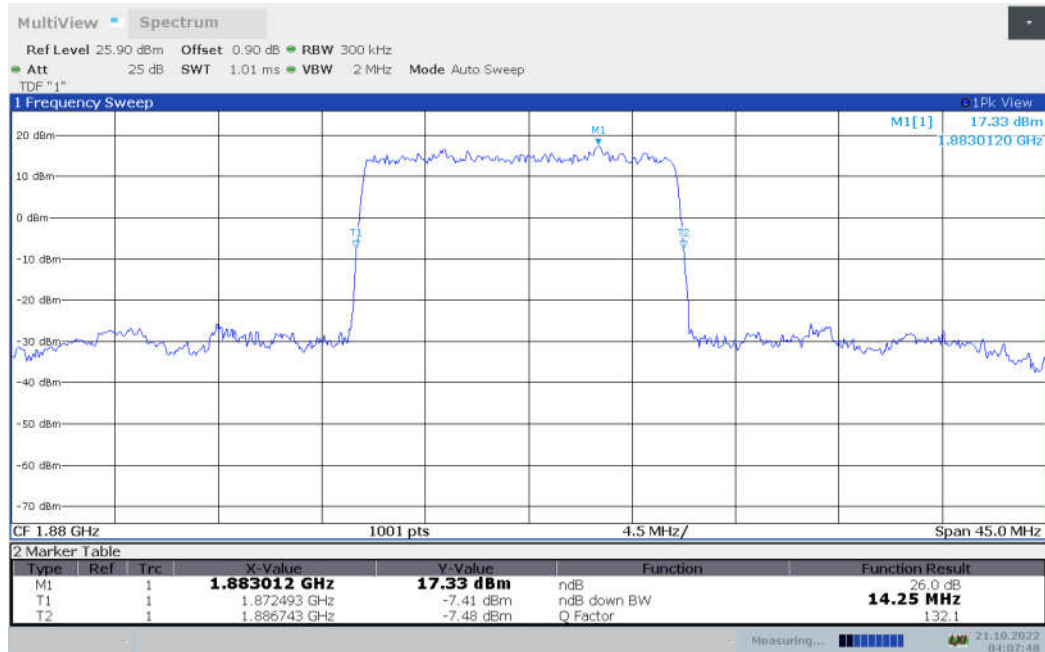


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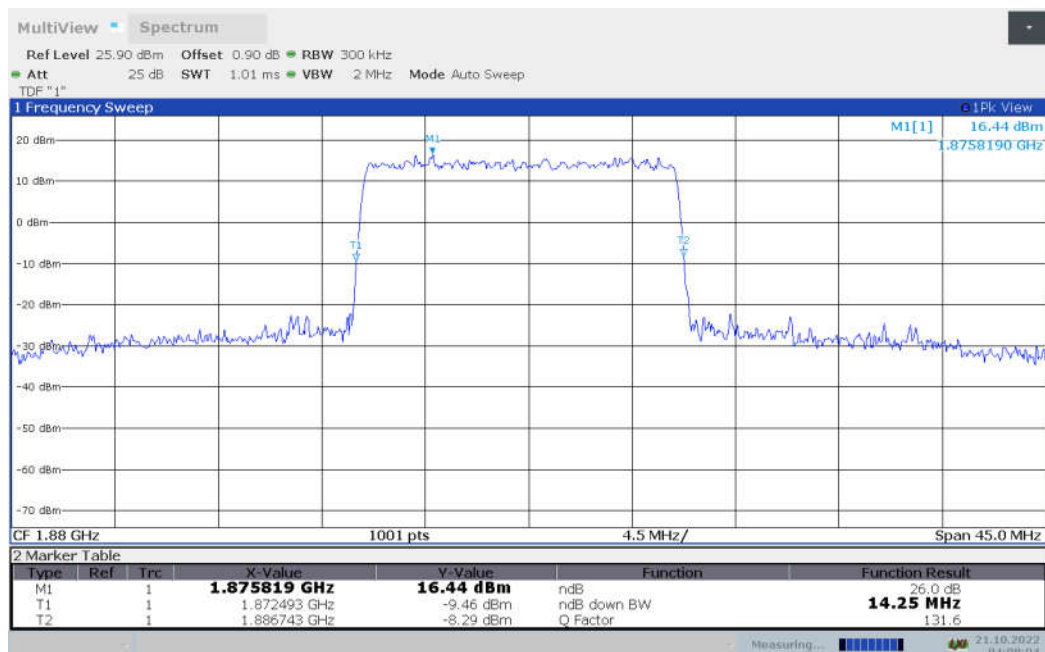
n2,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	14.251	14.251

n2,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

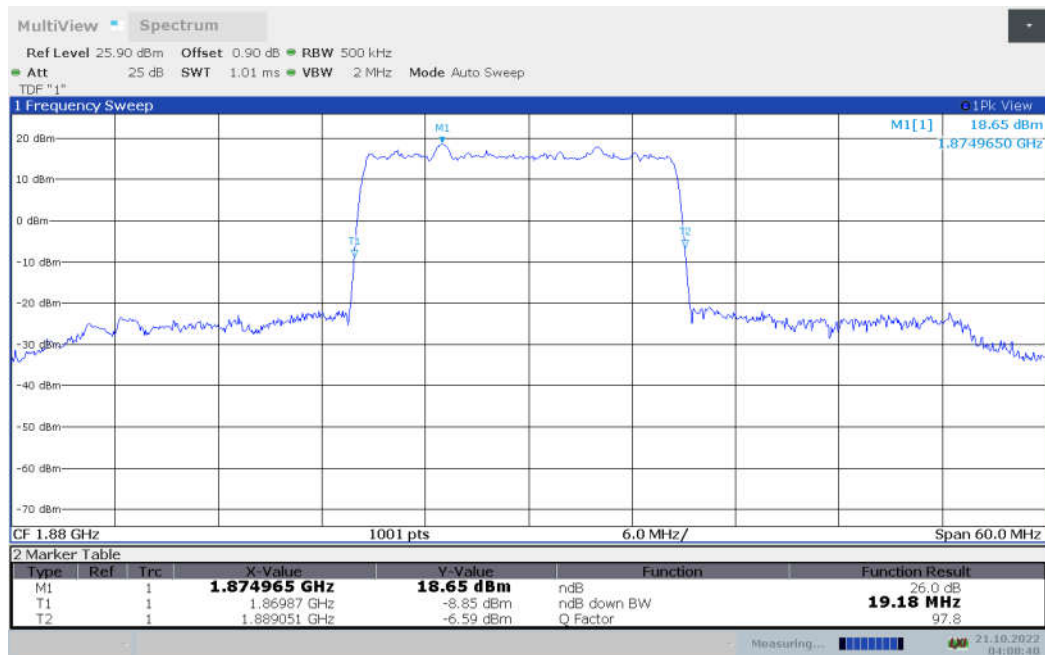
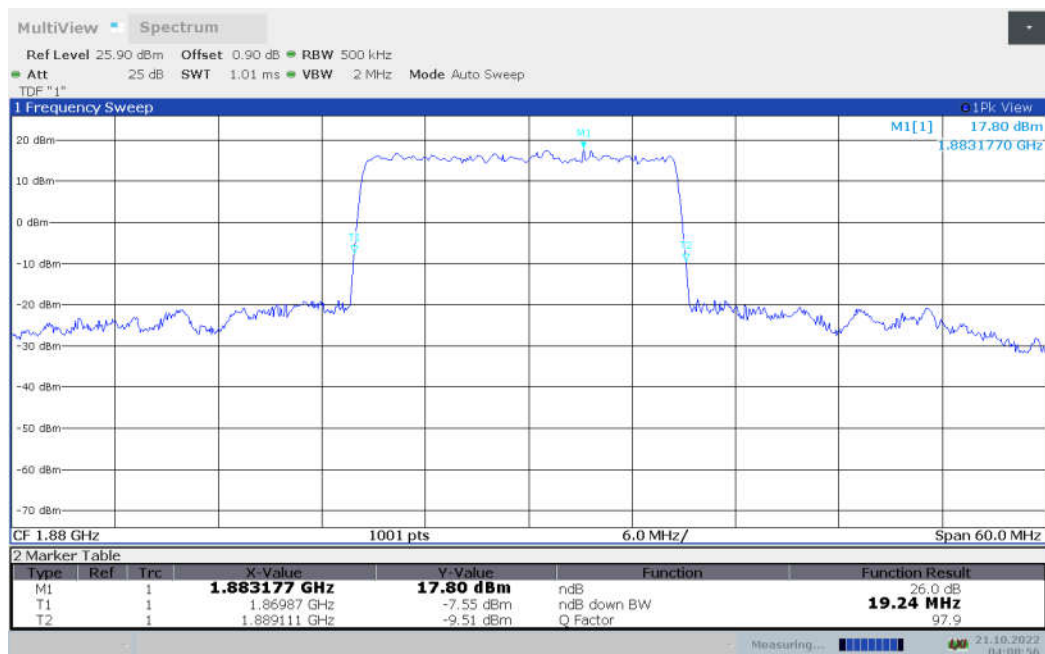


n2,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n2,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	19.181	19.241

n2,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n2,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)




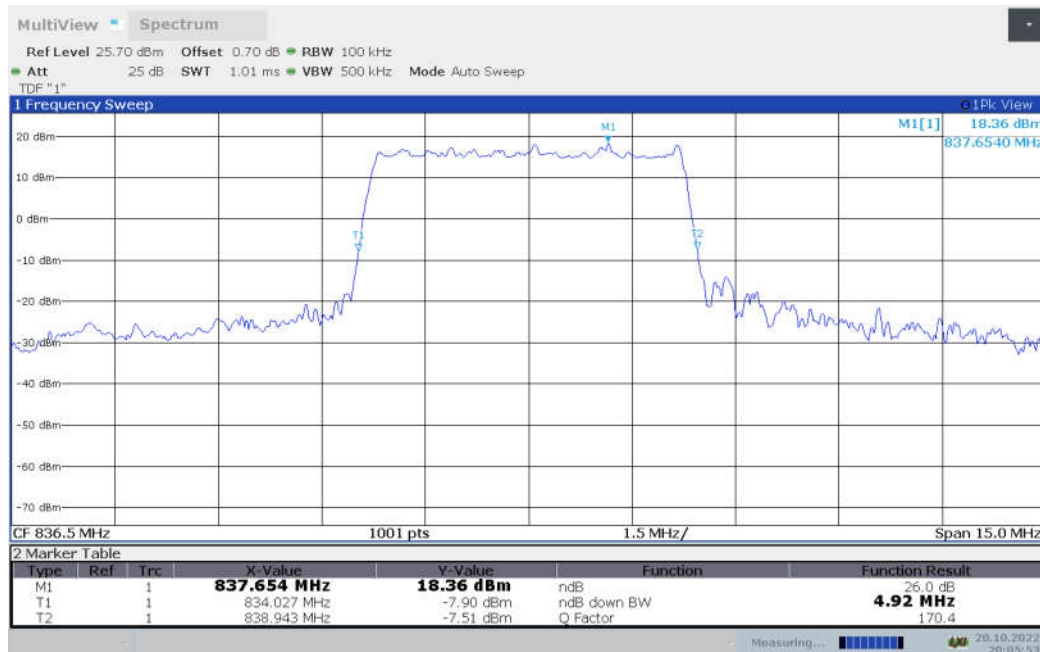
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DC_7A-n5A

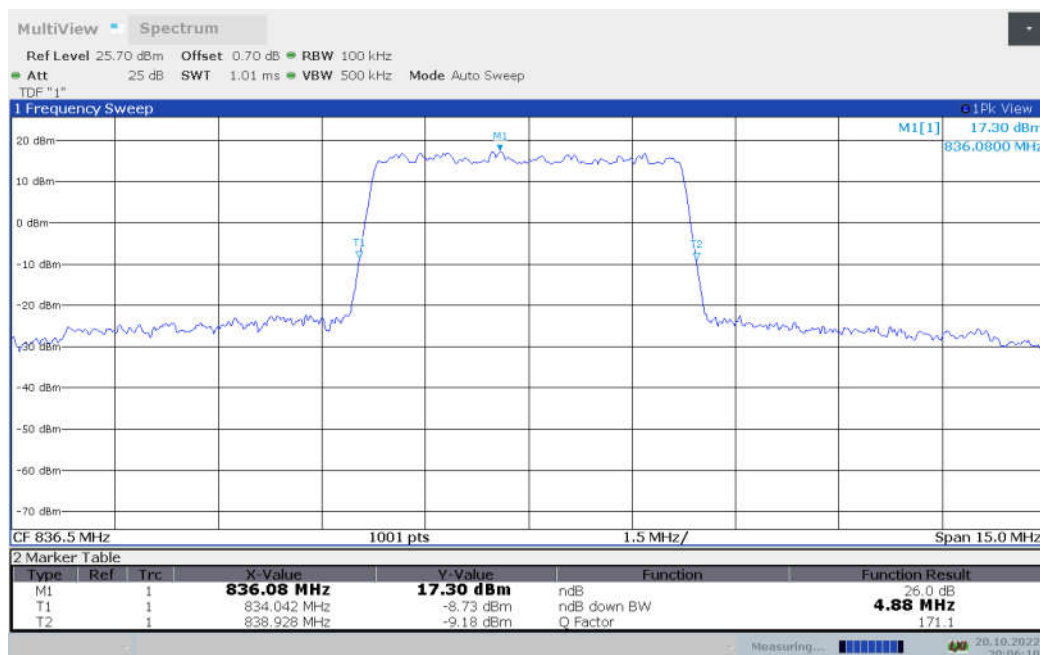
DC_7A-n5A,5MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	4.915	4.885

DC_7A-n5A,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC_7A-n5A,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



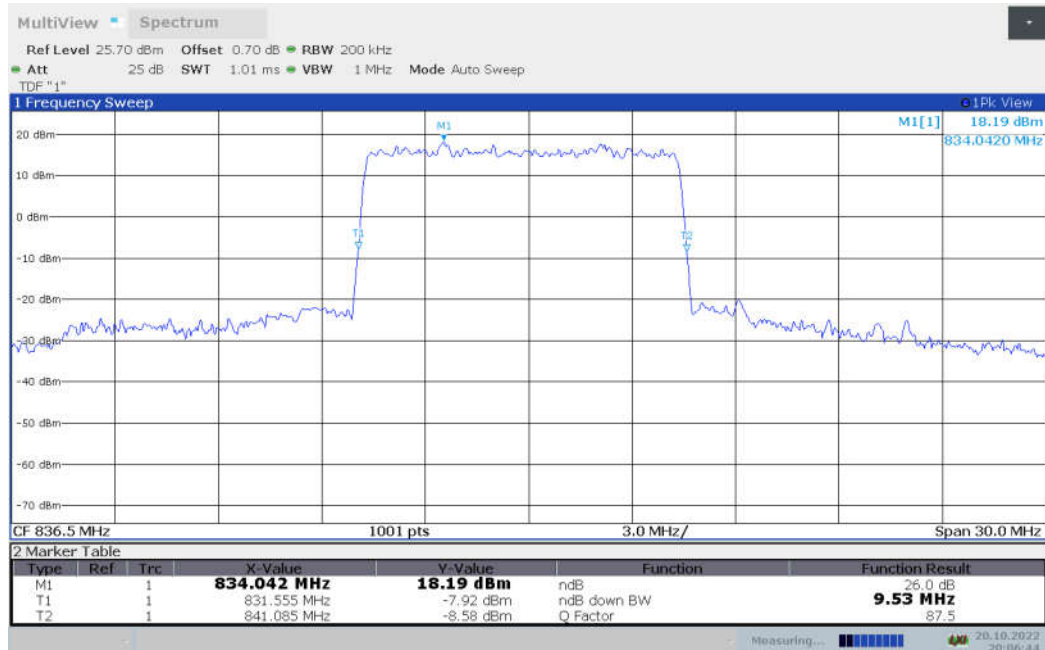


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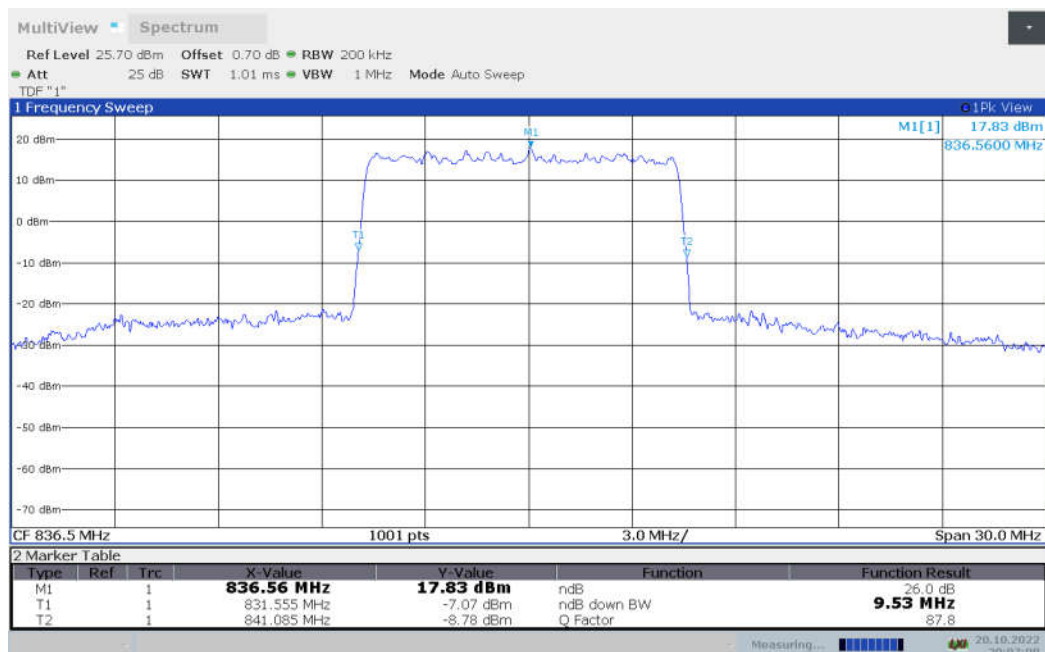
DC_7A-n5A,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	9.530	9.530

DC_7A-n5A,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



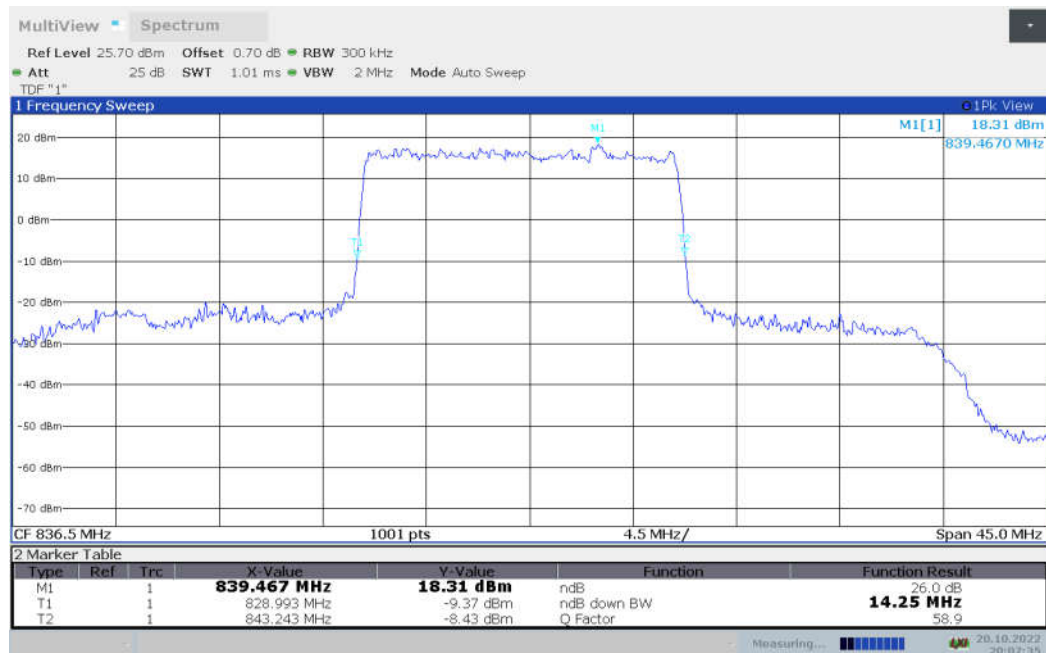
DC_7A-n5A,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



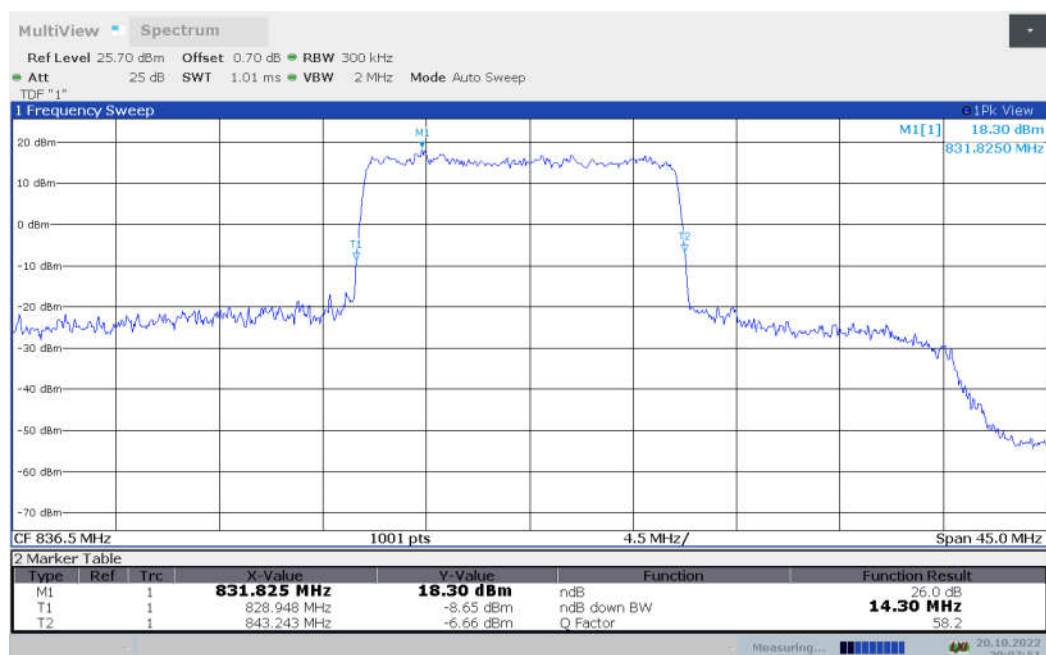
DC_7A-n5A,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	14.251	14.296

DC_7A-n5A,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC_7A-n5A,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



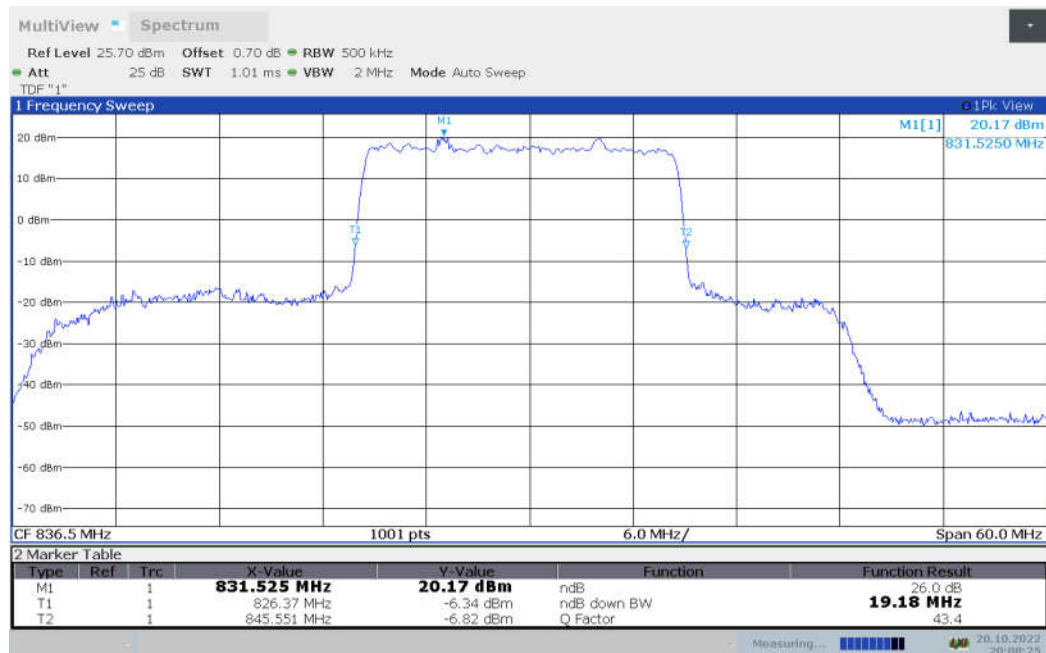


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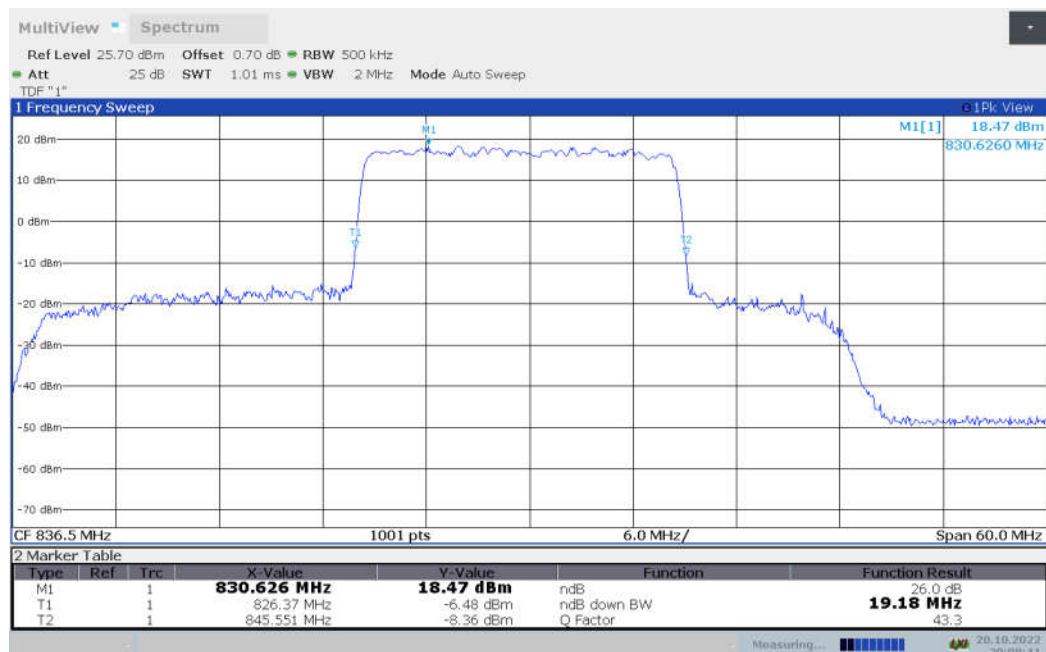
DC_7A-n5A,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	19.181	19.181

DC_7A-n5A,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC_7A-n5A,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)





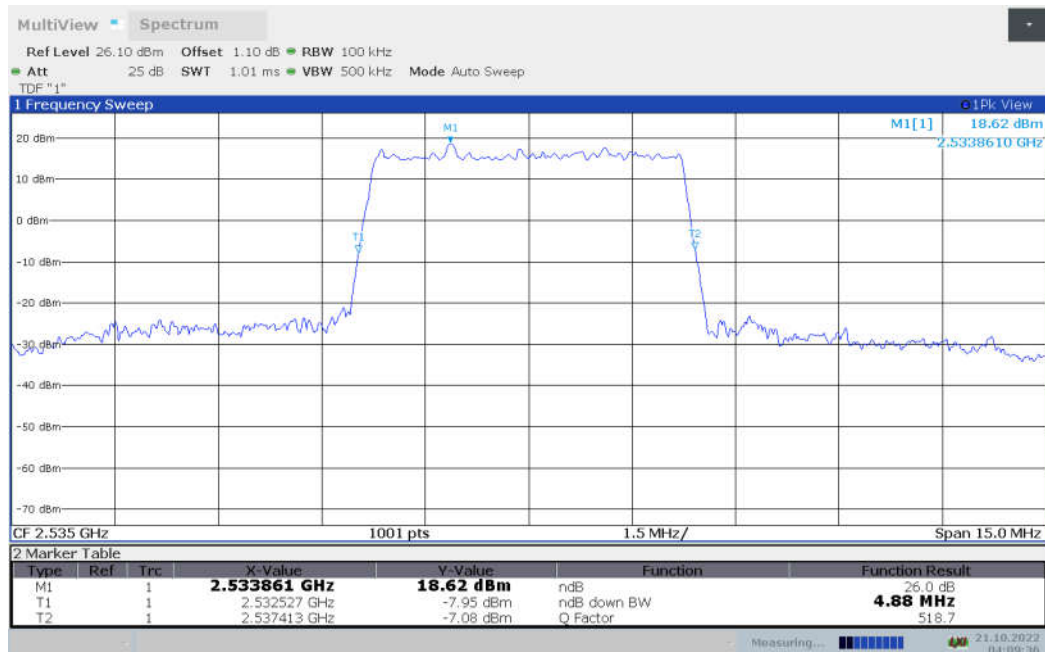
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n7

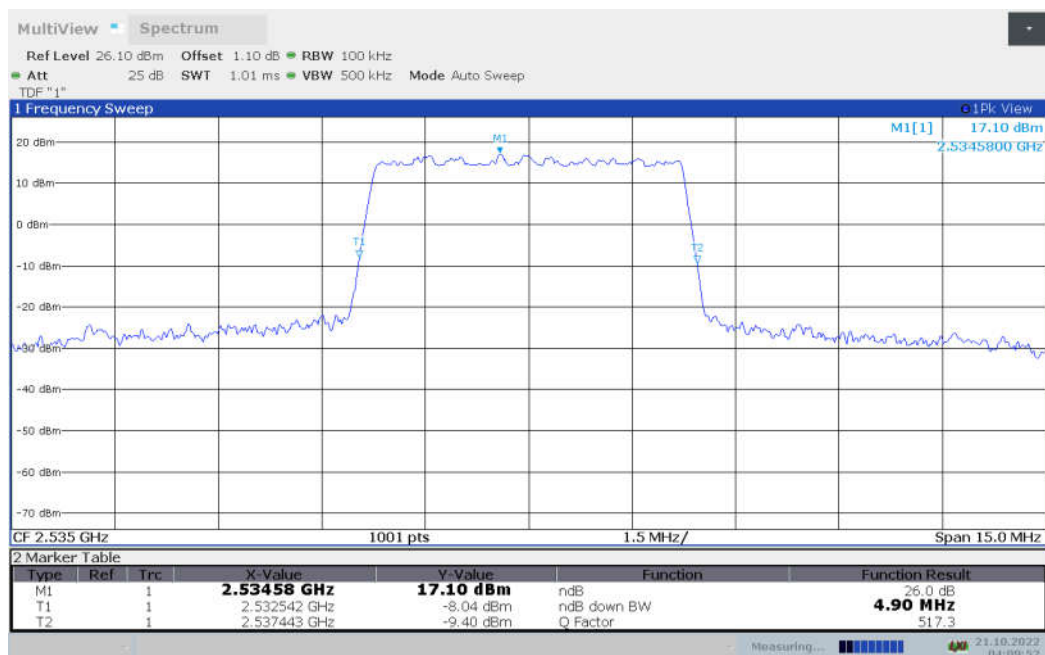
n7,5MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	4.885	4.900

n7,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



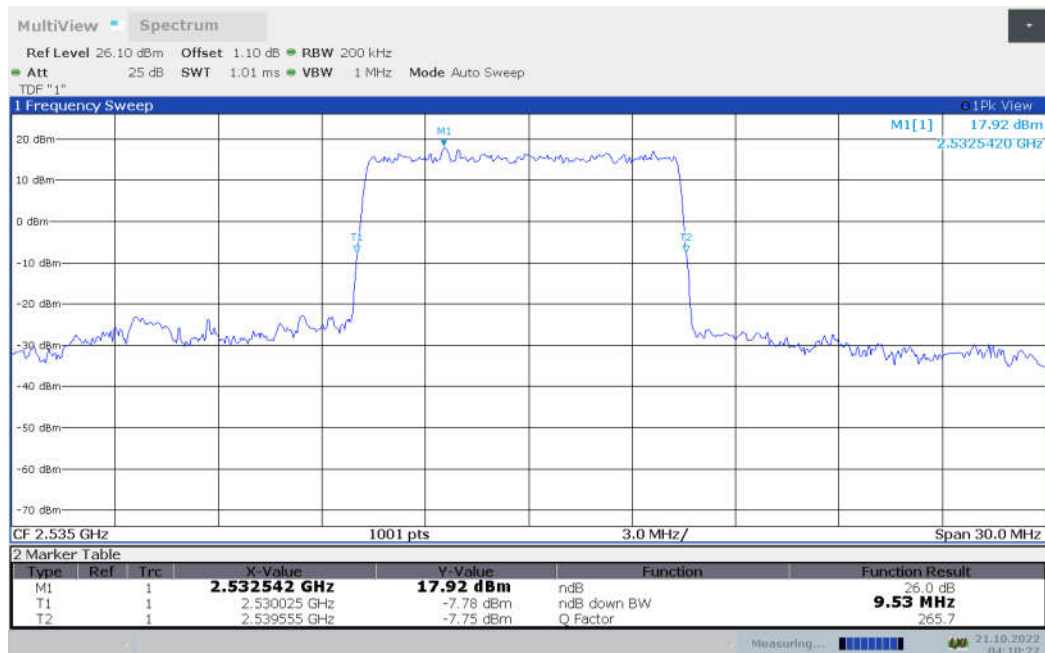


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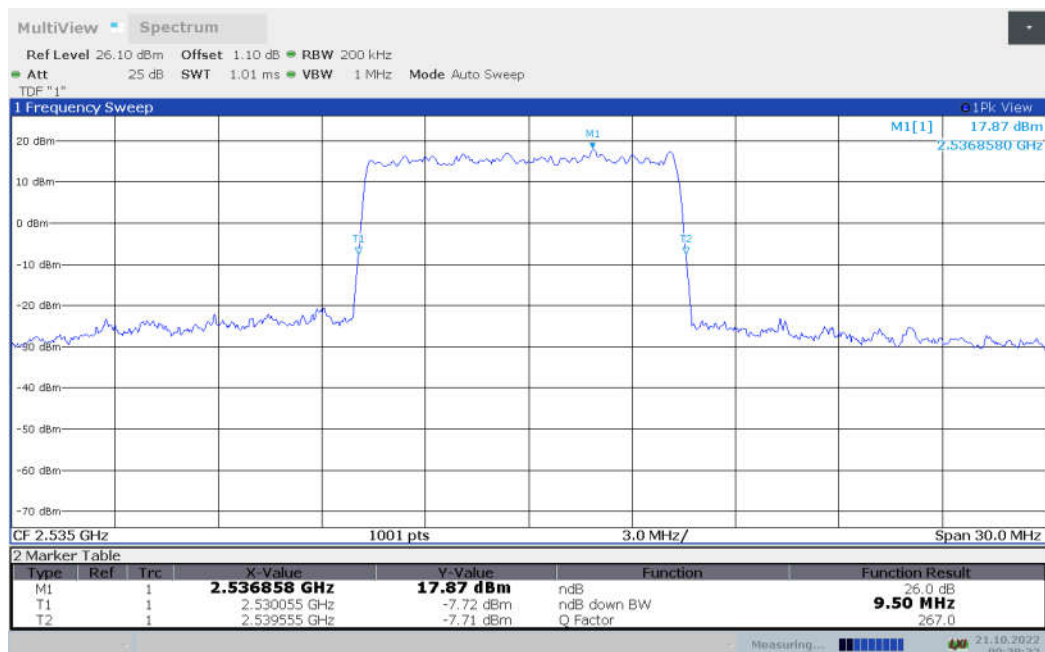
n7,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	9.530	9.500

n7,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



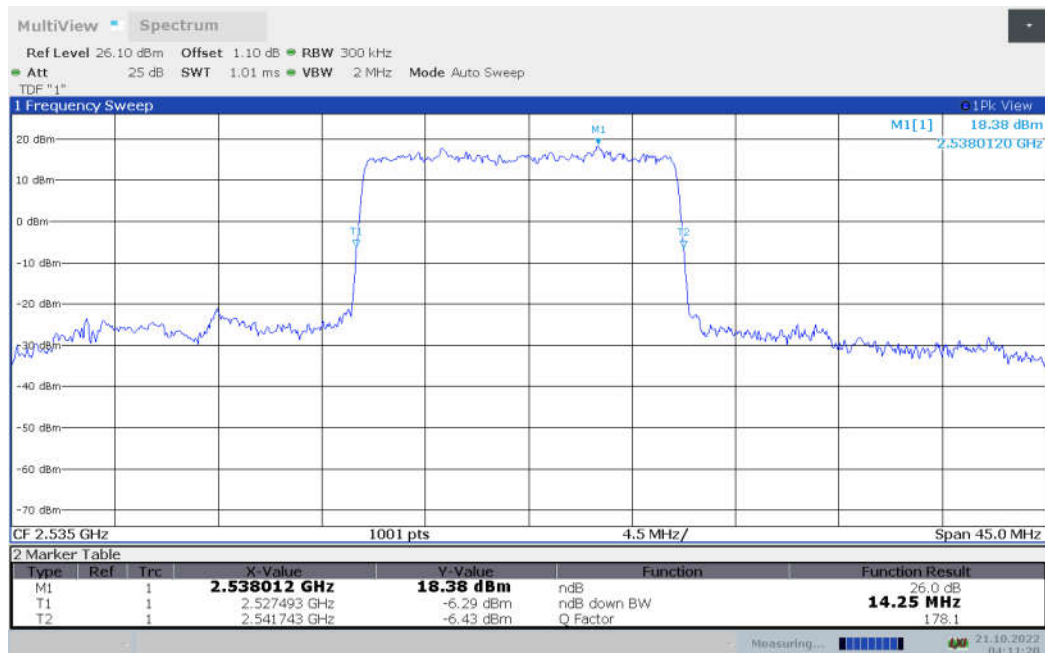


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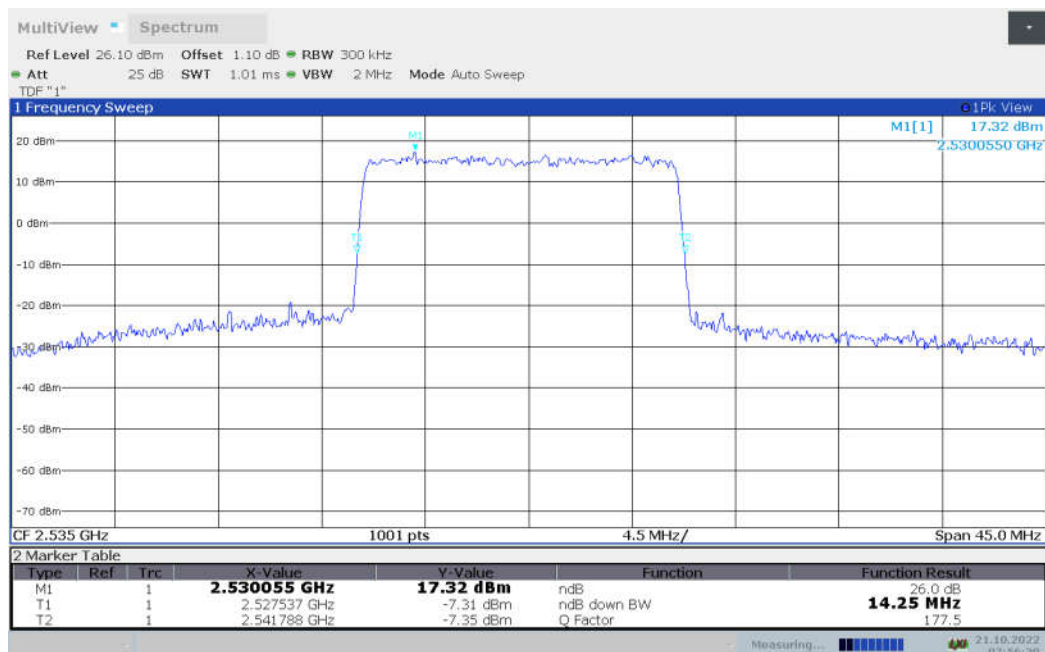
n7,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	14.251	14.251

n7,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



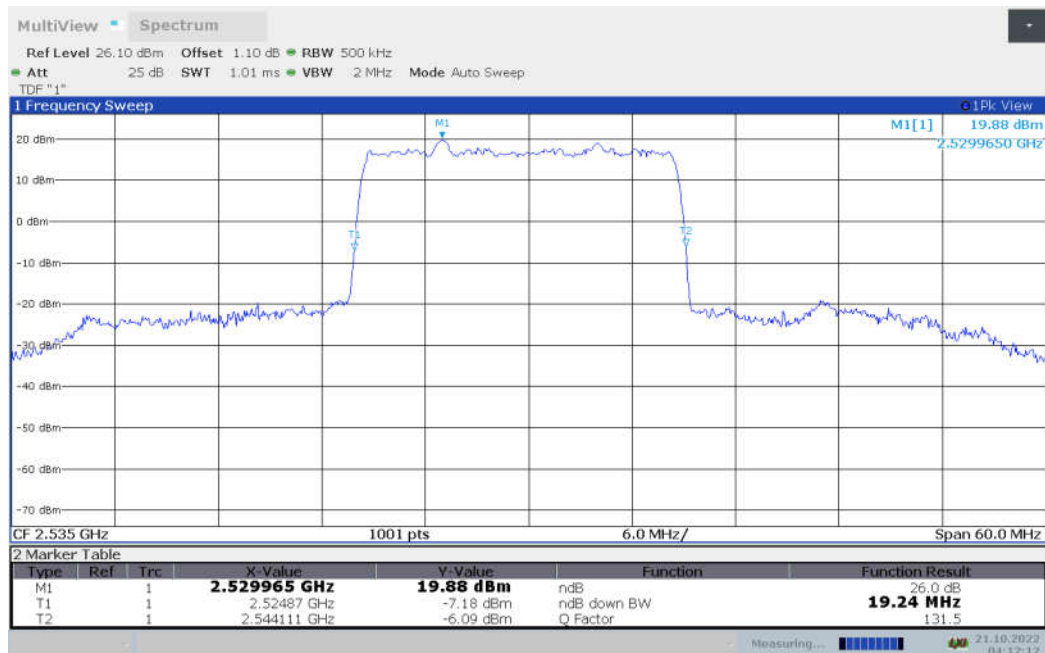


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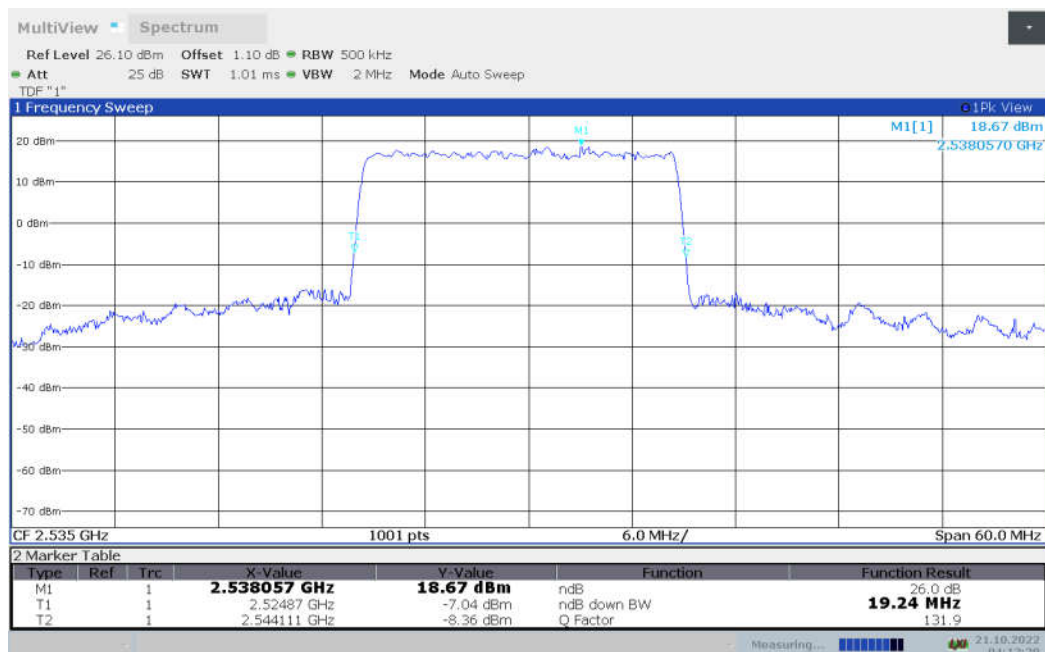
n7,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	19.241	19.241

n7,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)





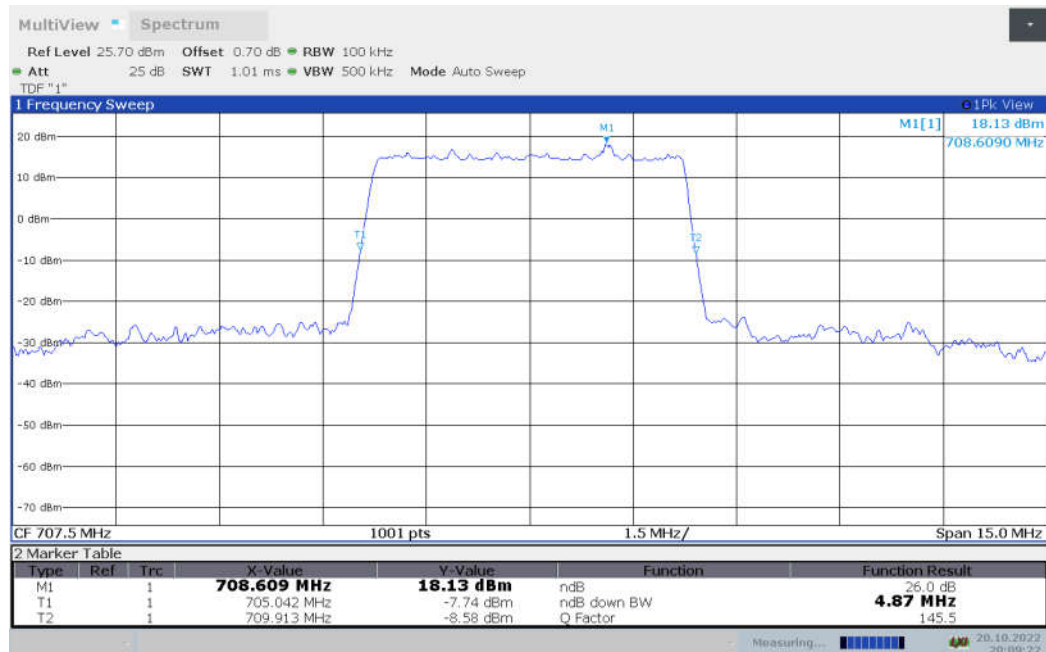
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n12

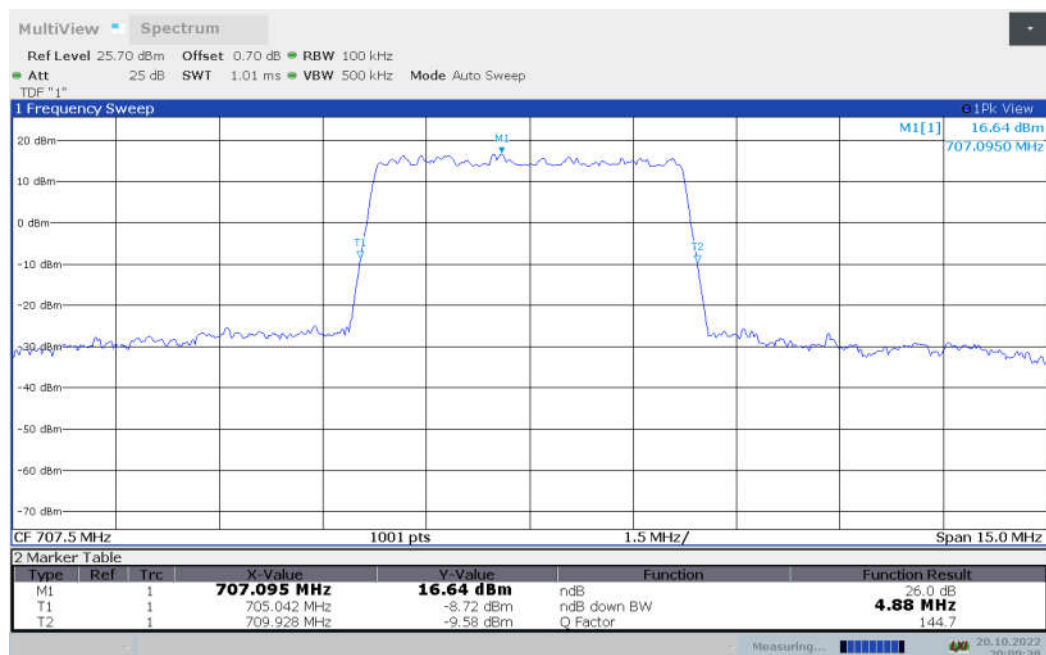
n12,5MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
707.5	4.870	4.885

n12,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

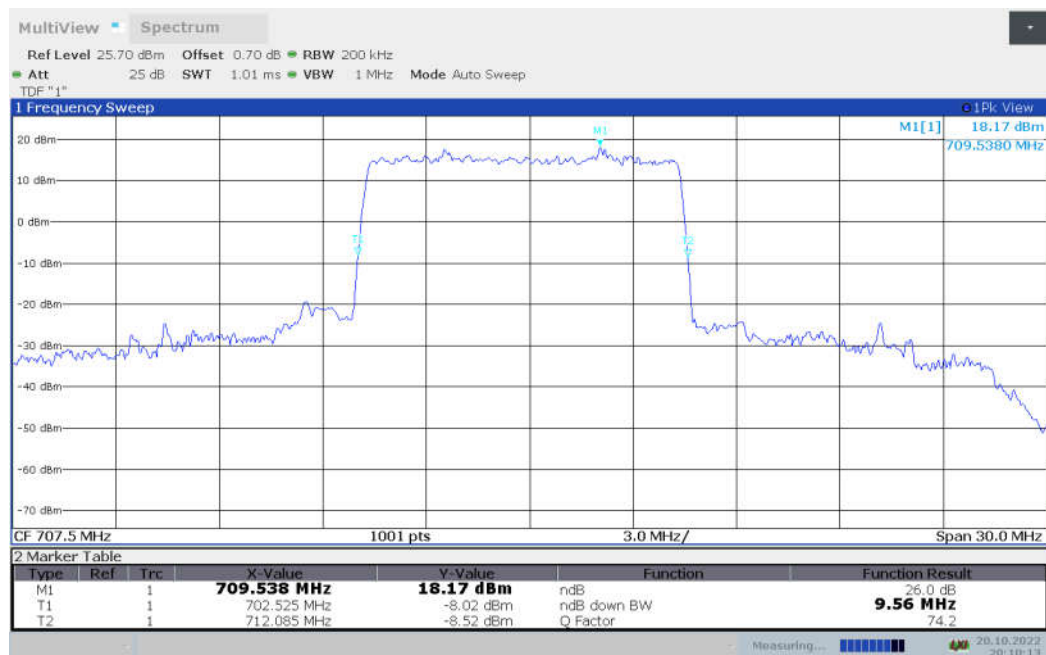
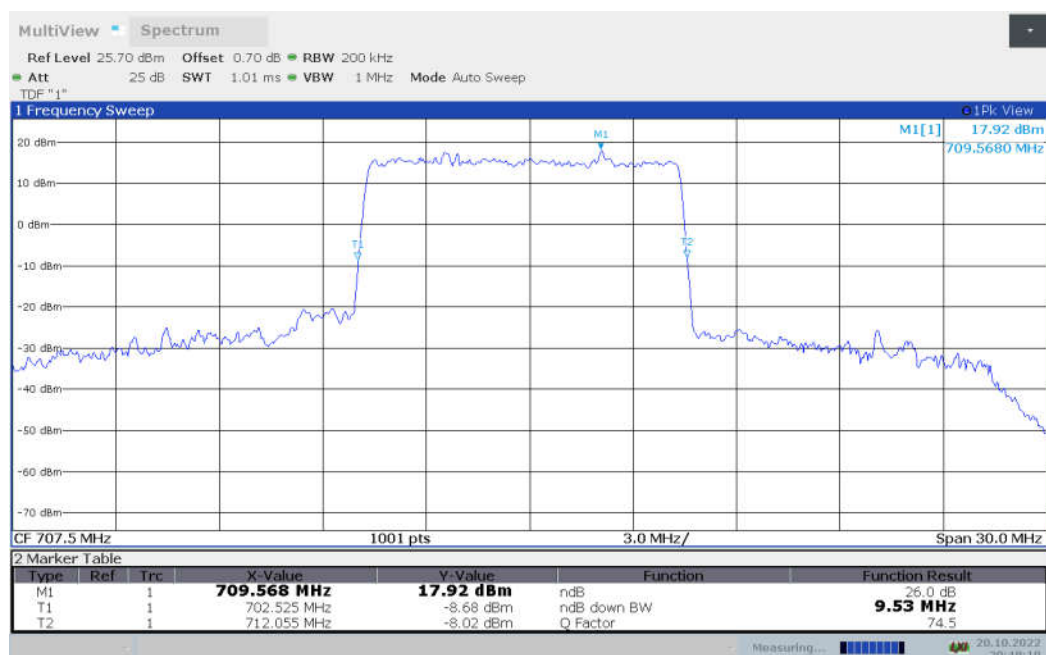


n12,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n12,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
707.5	9.560	9.530

n12,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n12,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)


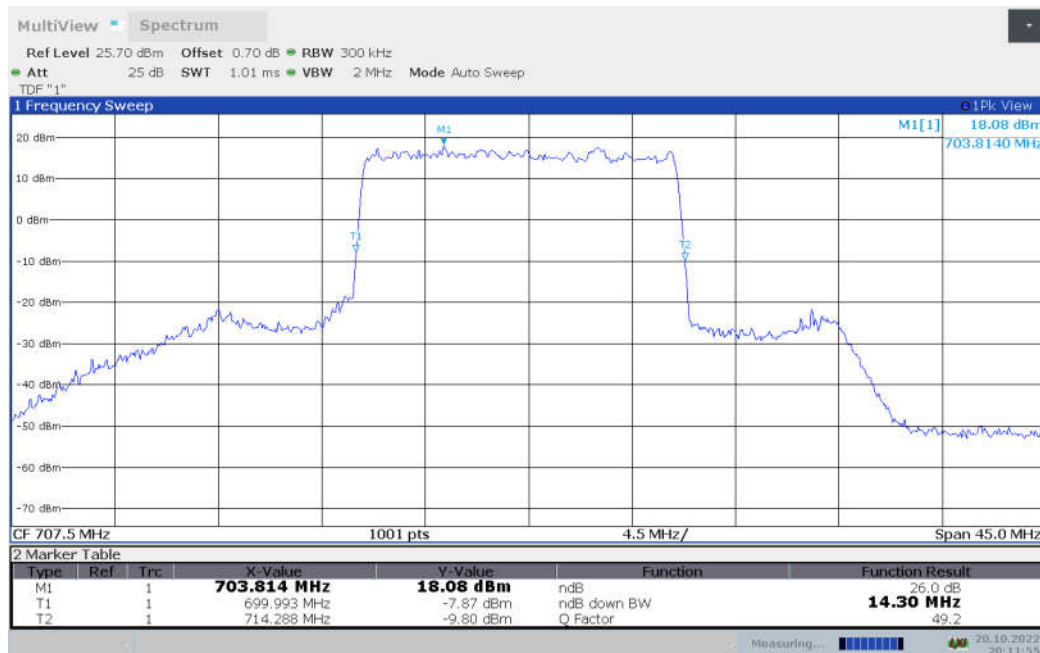


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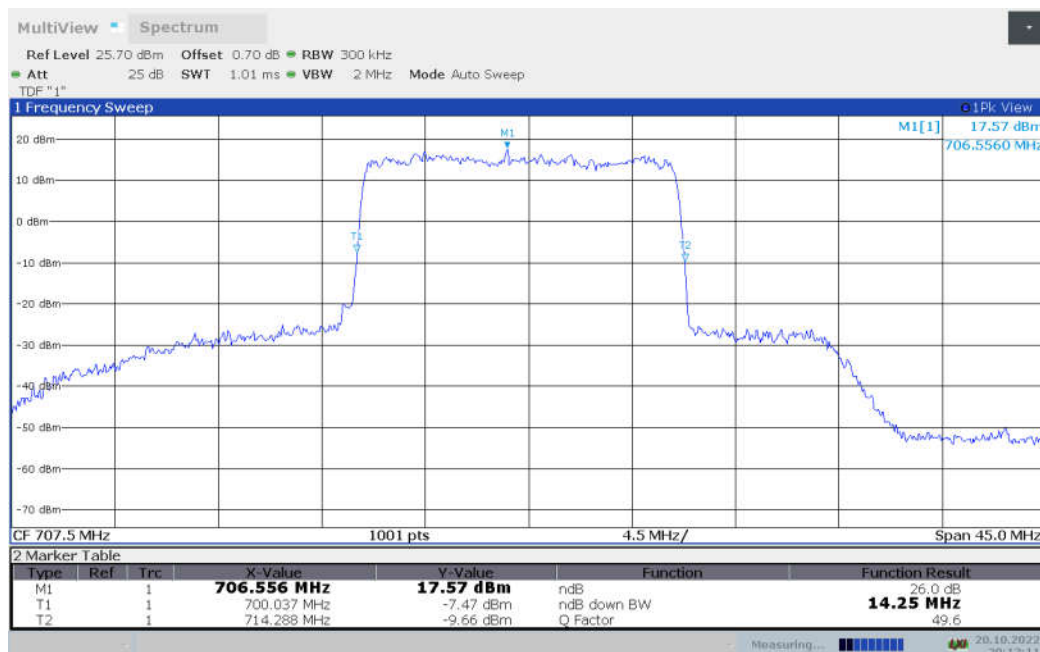
n12,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
707.5	14.296	14.251

n12,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n12,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)





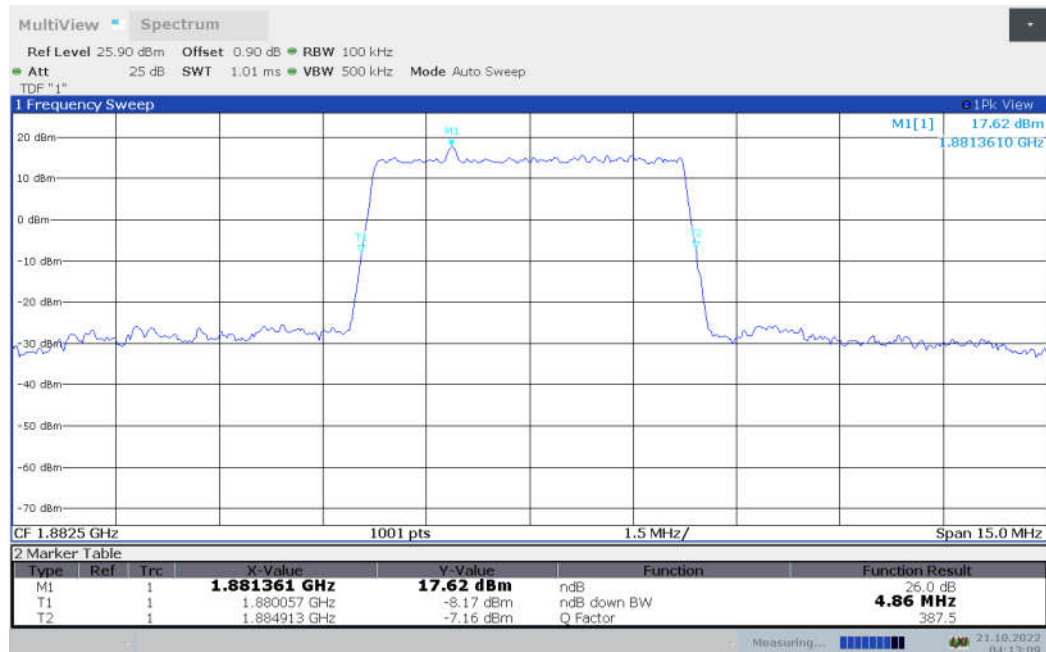
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n25

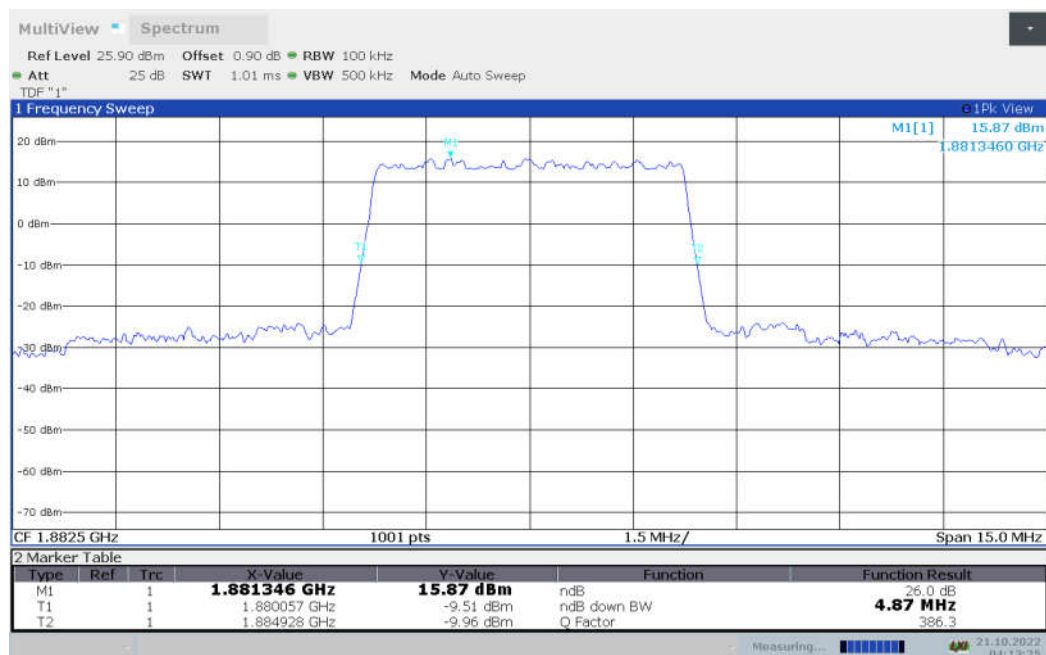
n25,5MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	4.855	4.870

n25,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n25,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



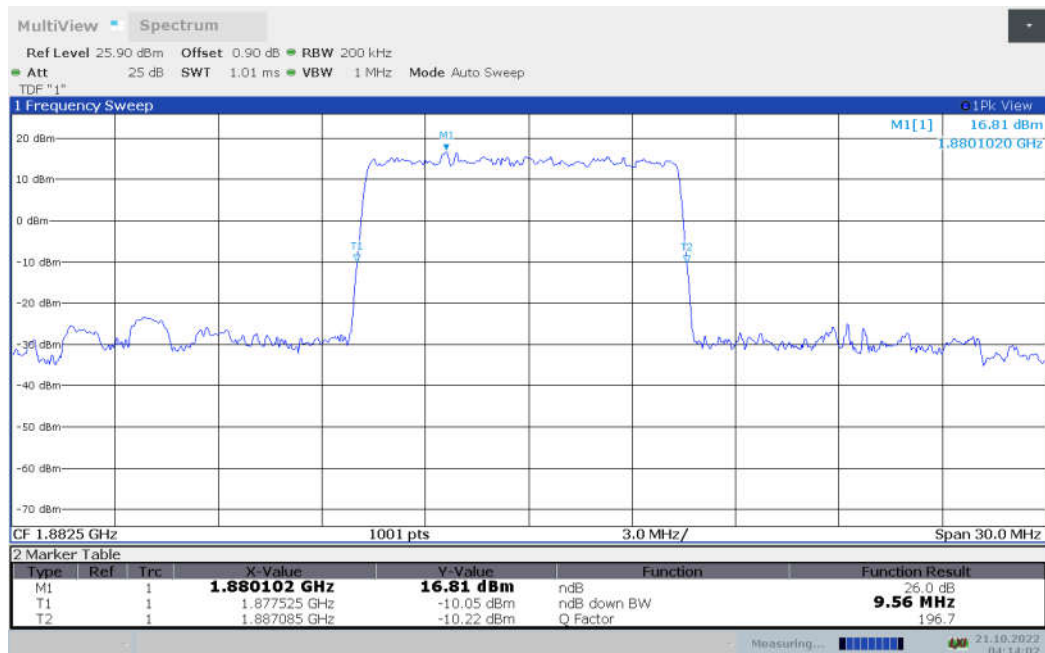


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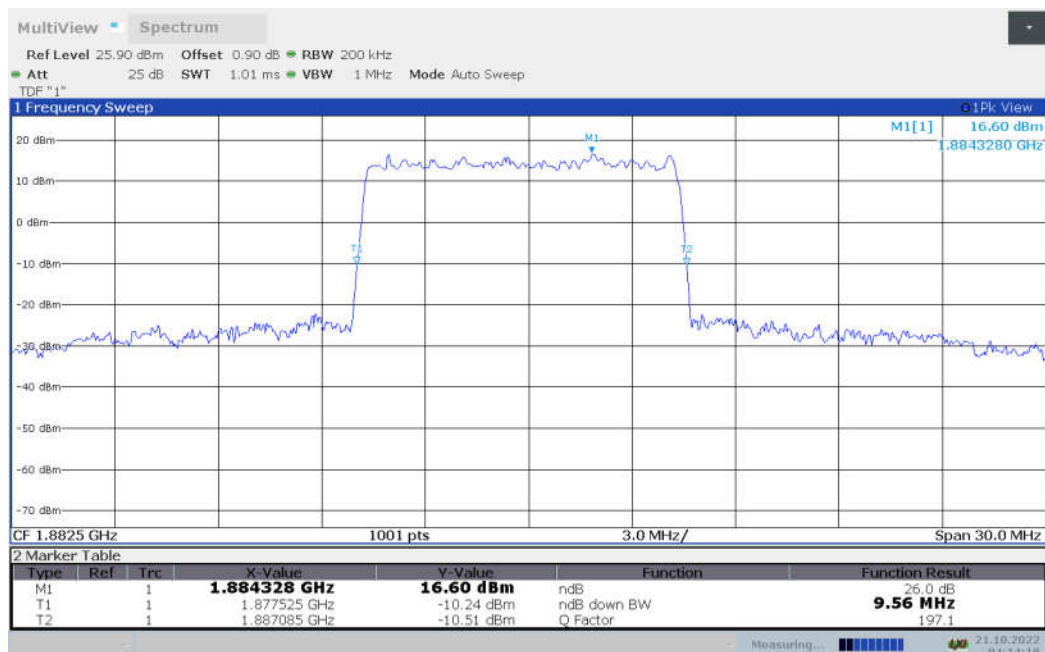
n25,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	9.560	9.560

n25,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

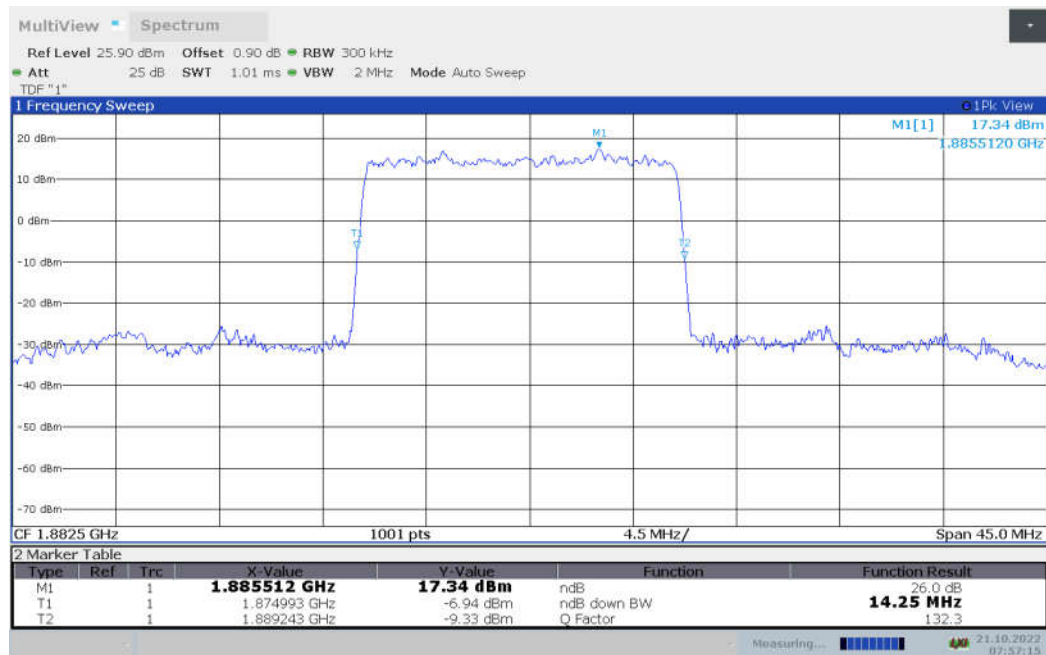
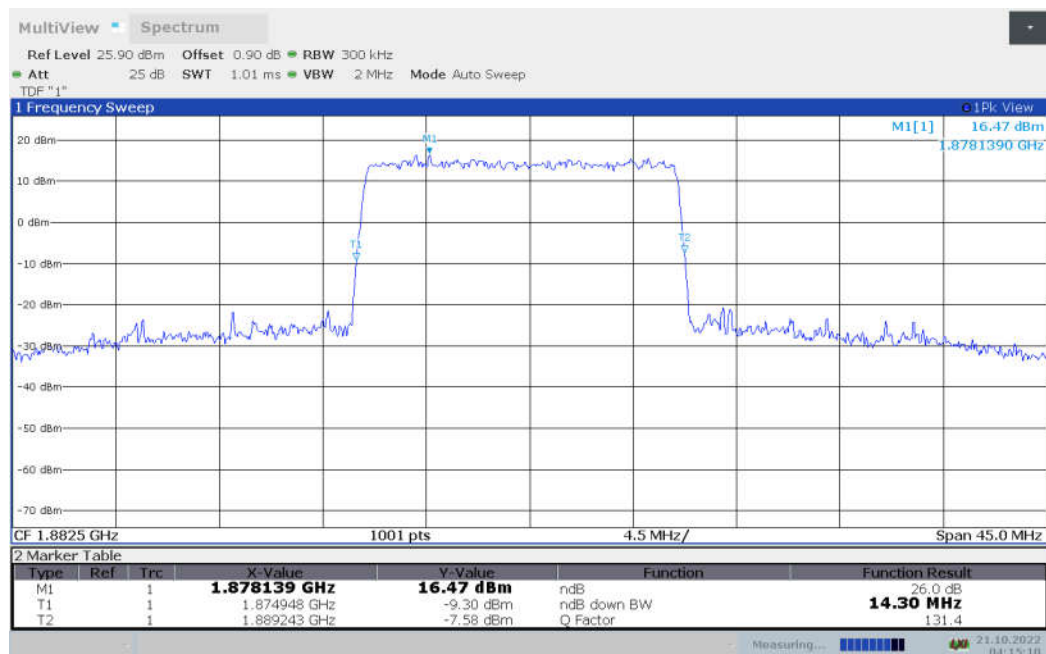


n25,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n25,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	14.251	14.296

n25,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n25,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)


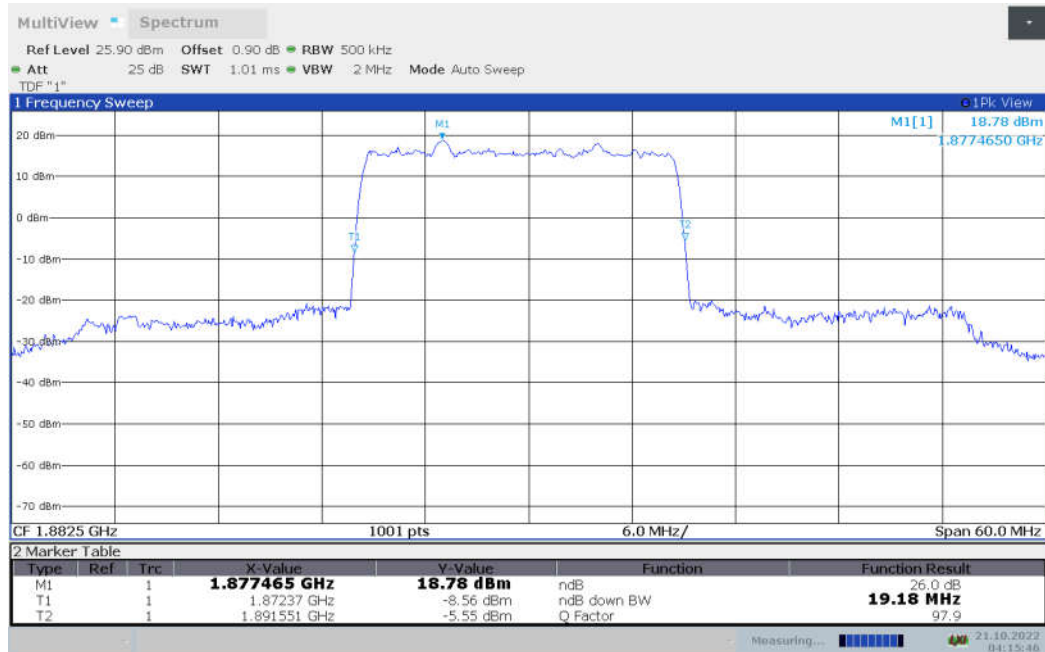


No. I22N02158-RF-NR

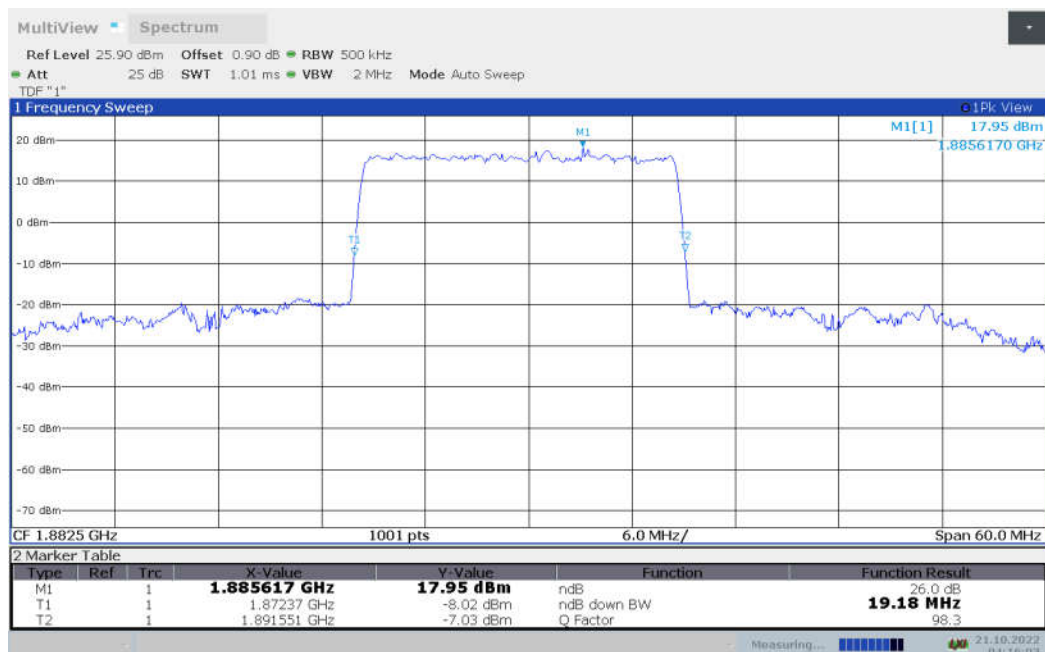
n25,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	19.181	19.181

n25,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n25,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)





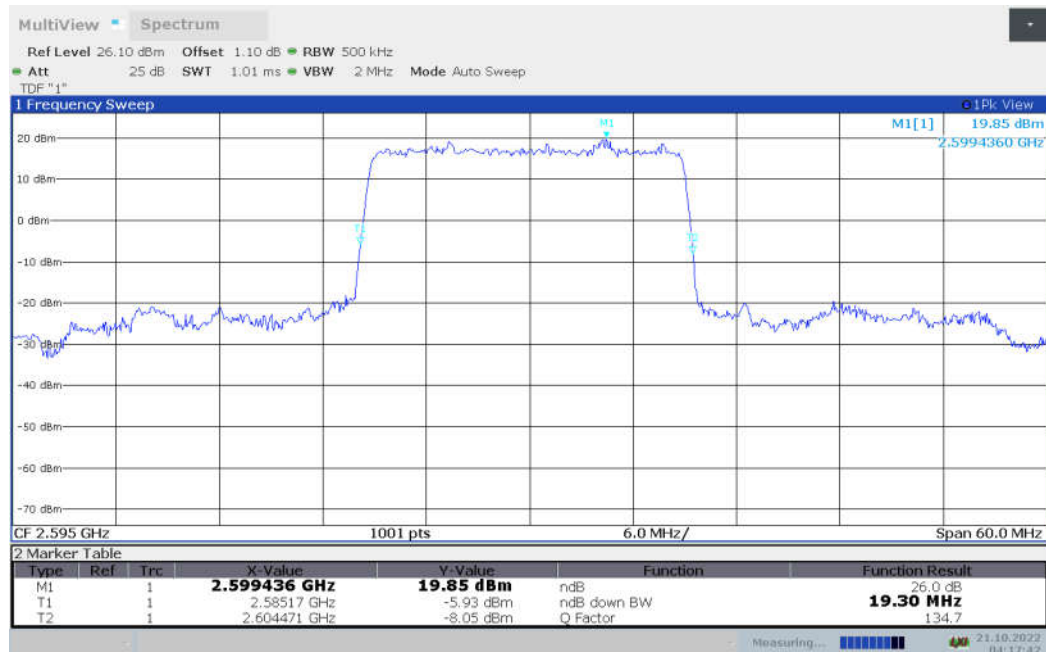
No. I22N02158-RF-NR

n38

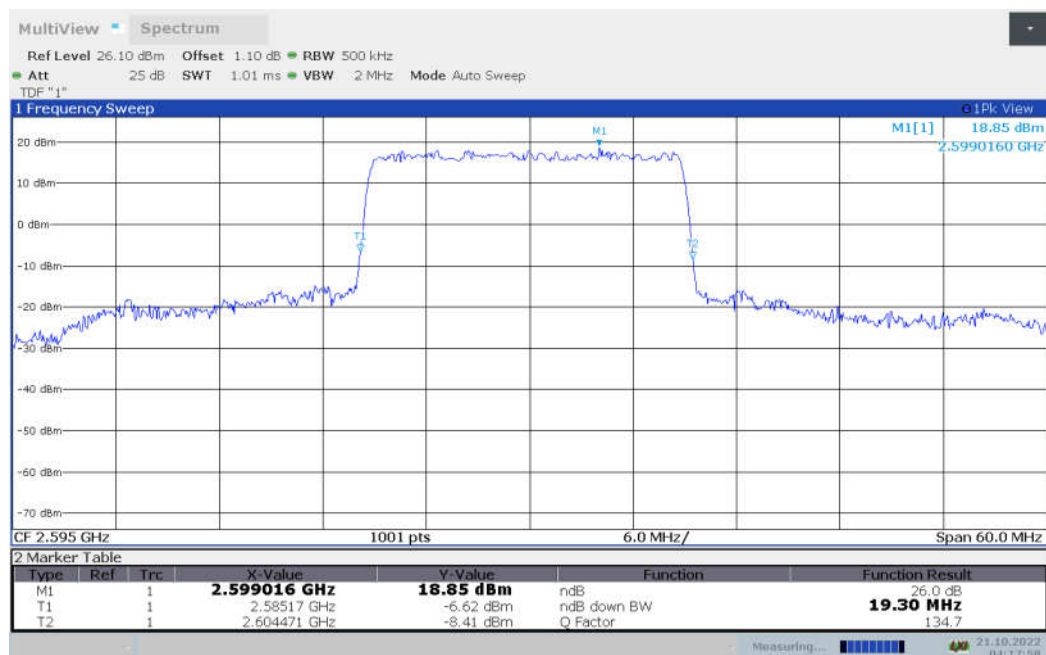
n38,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2595	19.301	19.301

n38,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n38,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



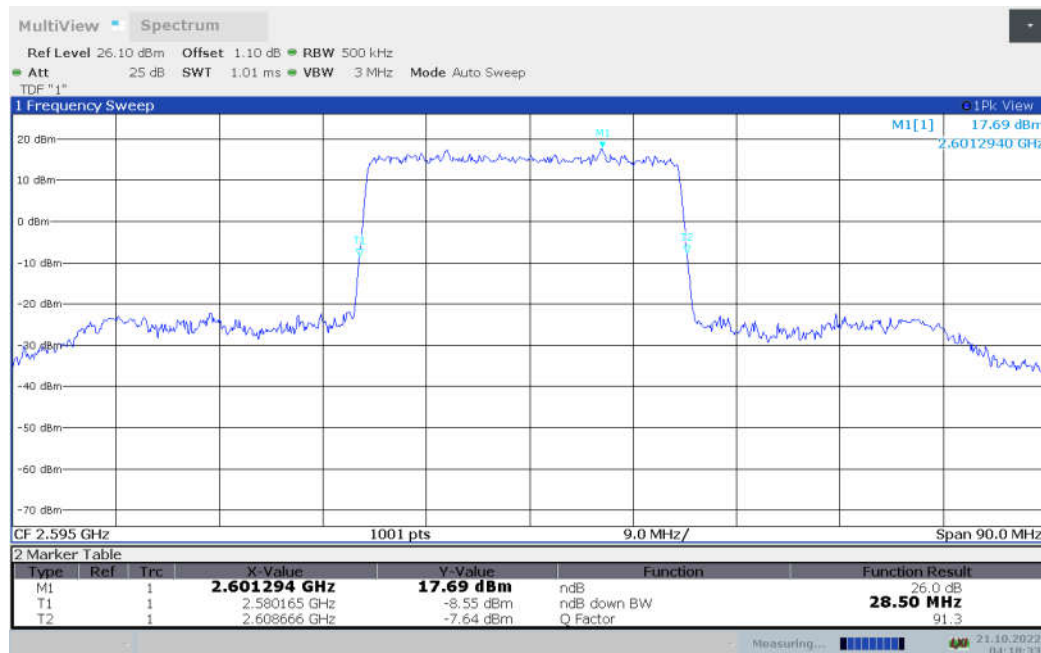


No. I22N02158-RF-NR

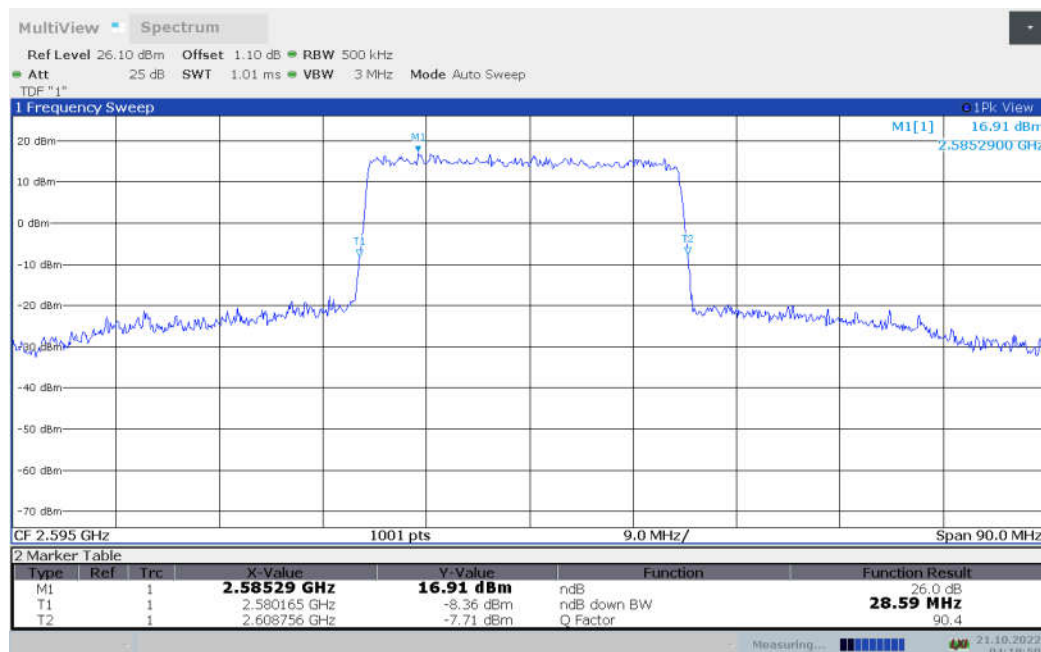
n38,30MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2595	28.501	28.591

n38,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n38,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



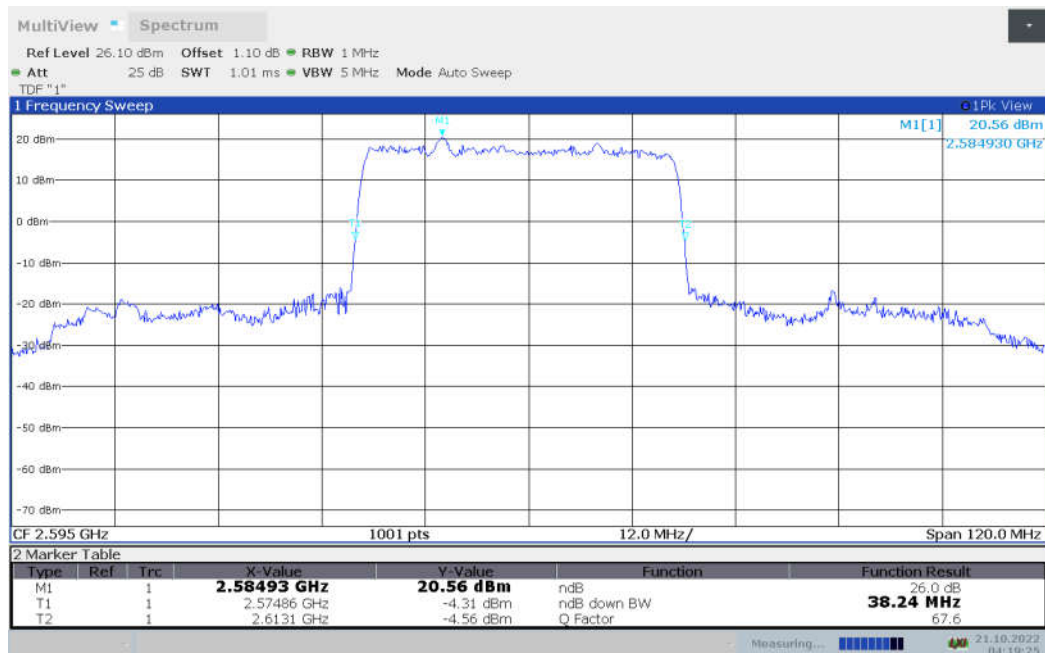


No. I22N02158-RF-NR

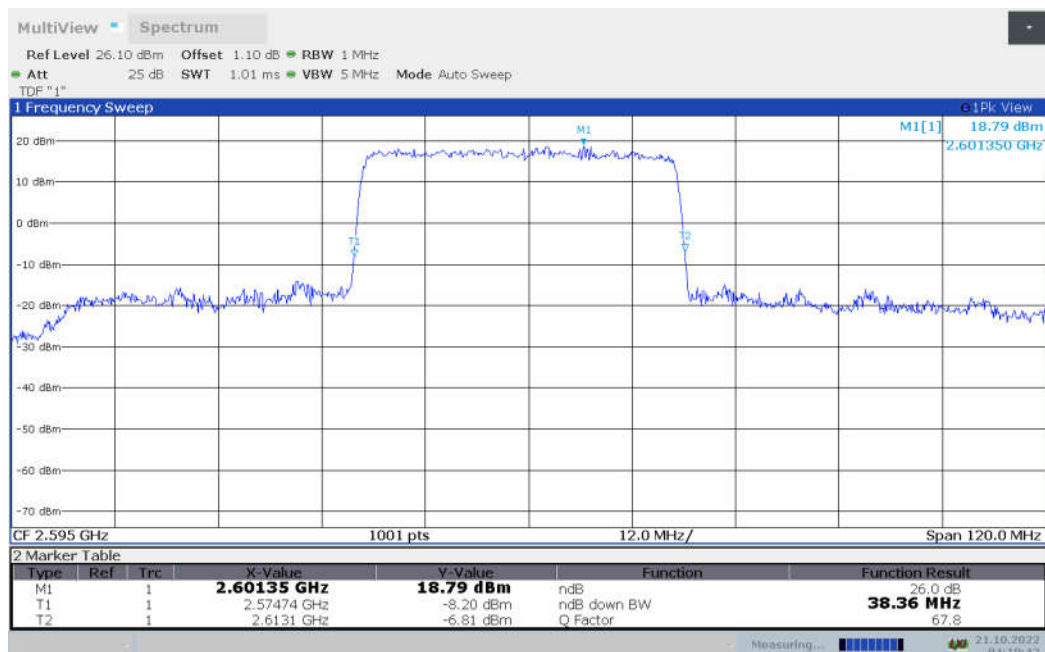
n38,40MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2595	38.240	38.360

n38,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n38,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)





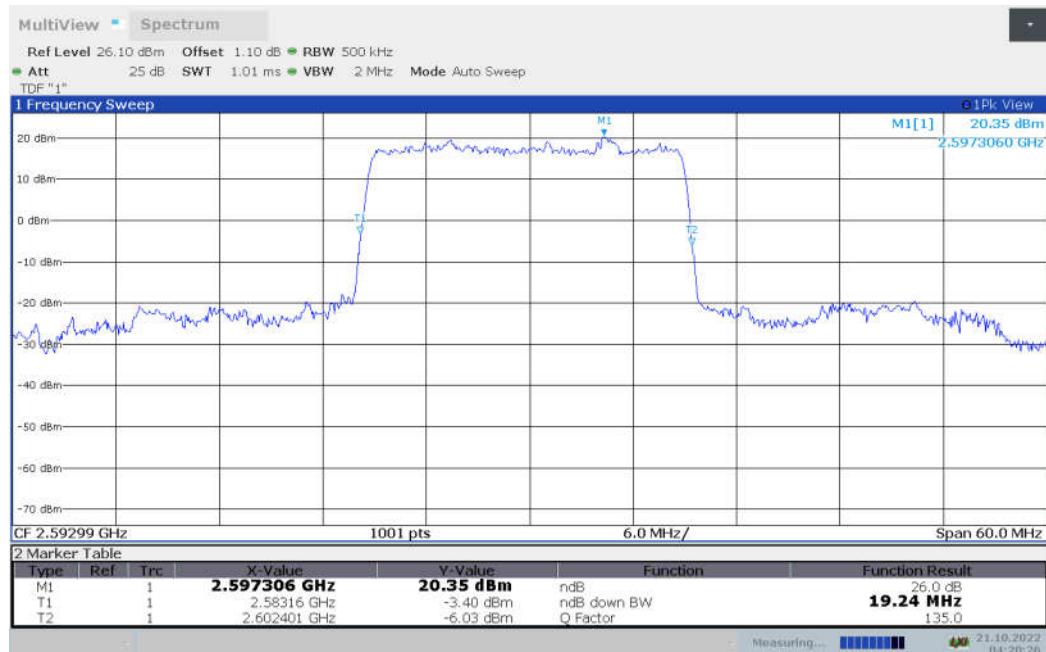
No. I22N02158-RF-NR

n41

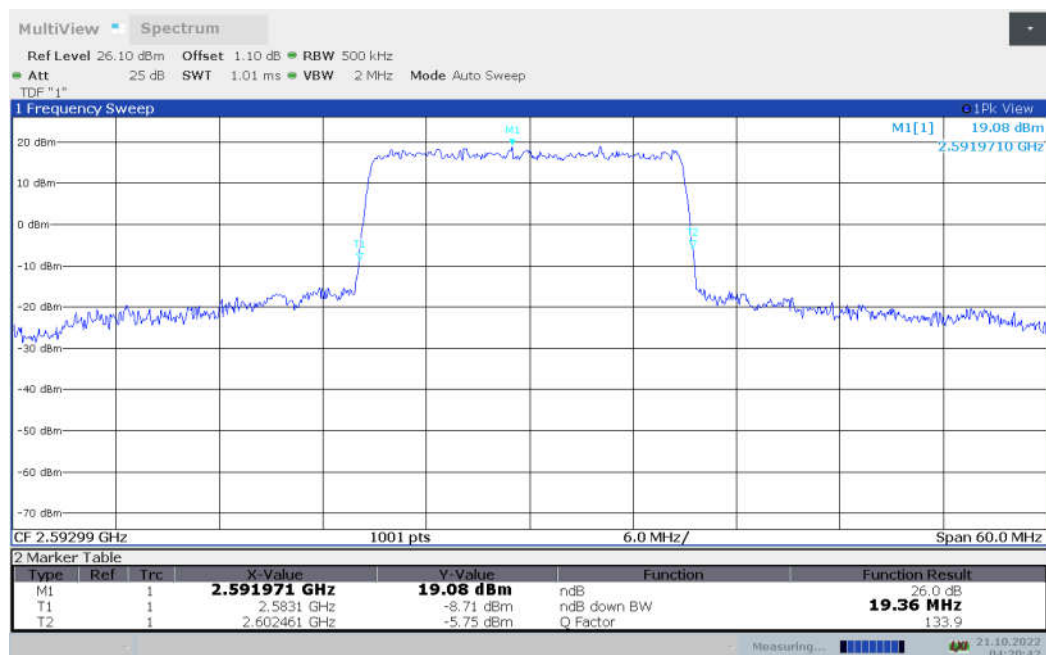
n41,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	19.241	19.361

n41,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



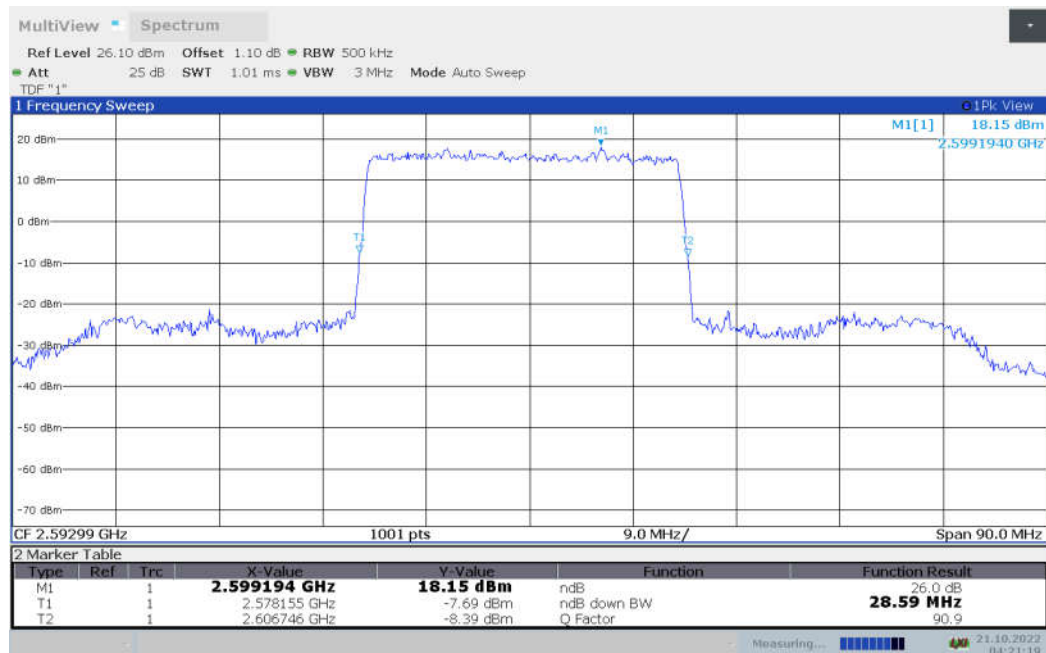


No. I22N02158-RF-NR

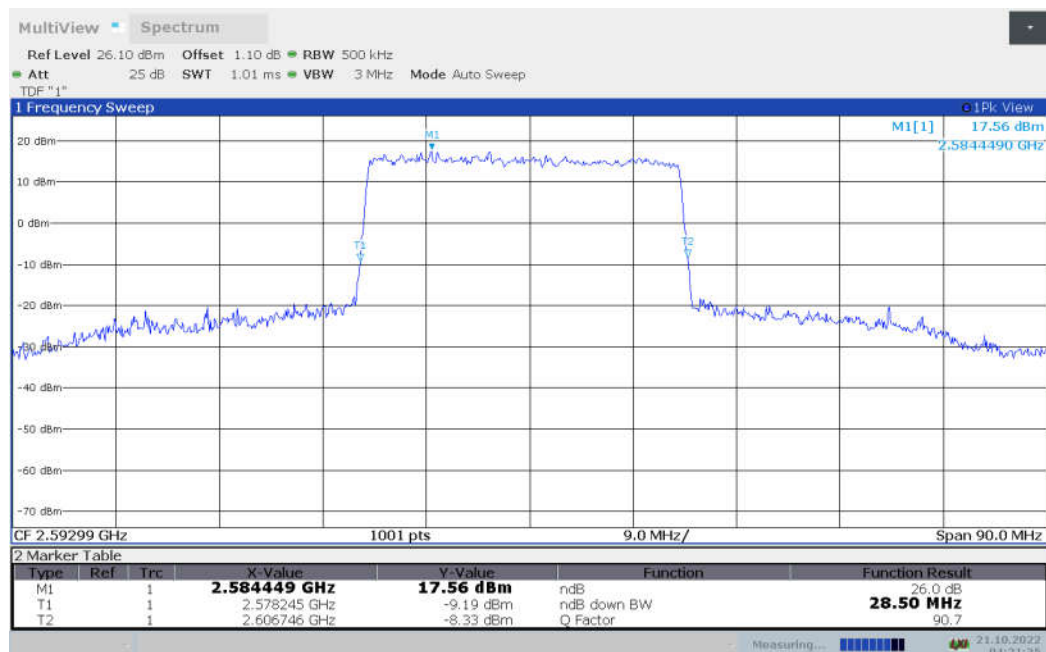
n41,30MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	28.591	28.501

n41,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

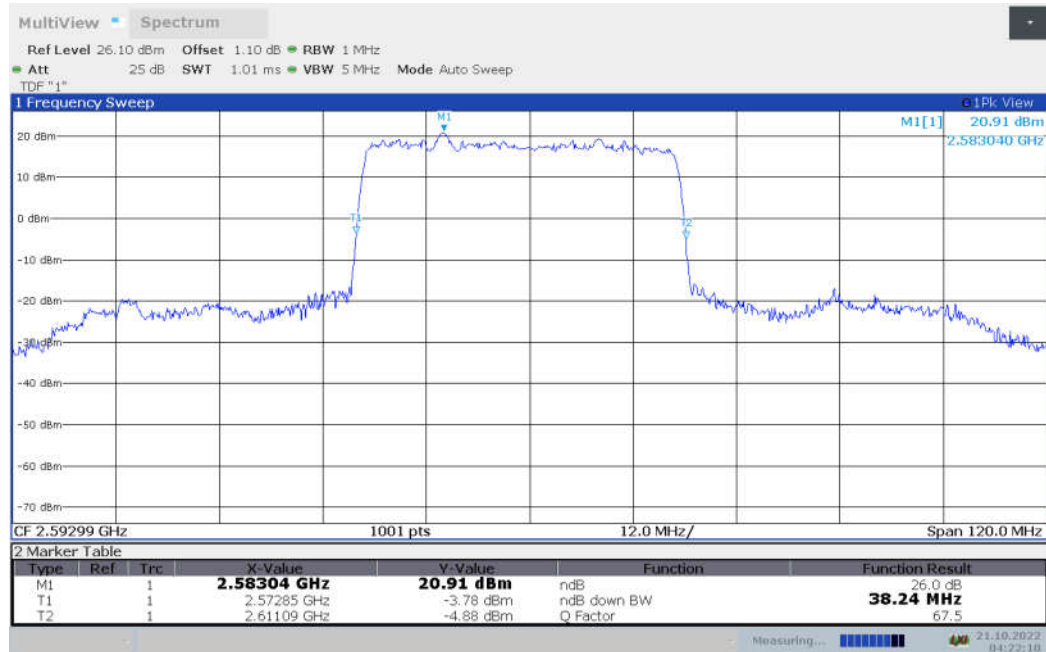
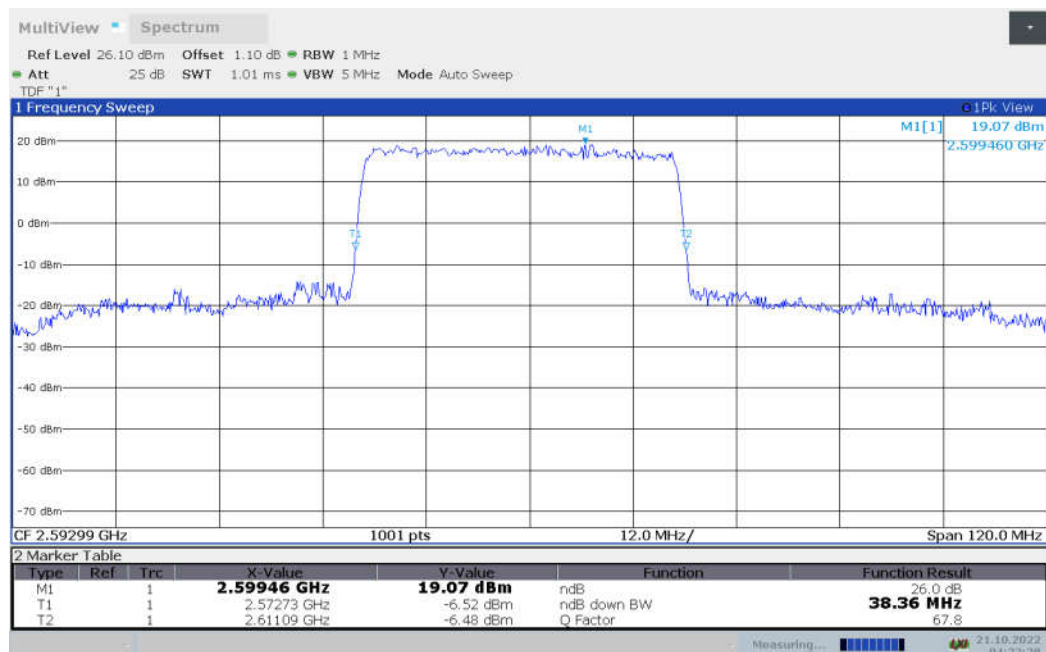


n41,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n41,40MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	38.240	38.360

n41,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n41,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)


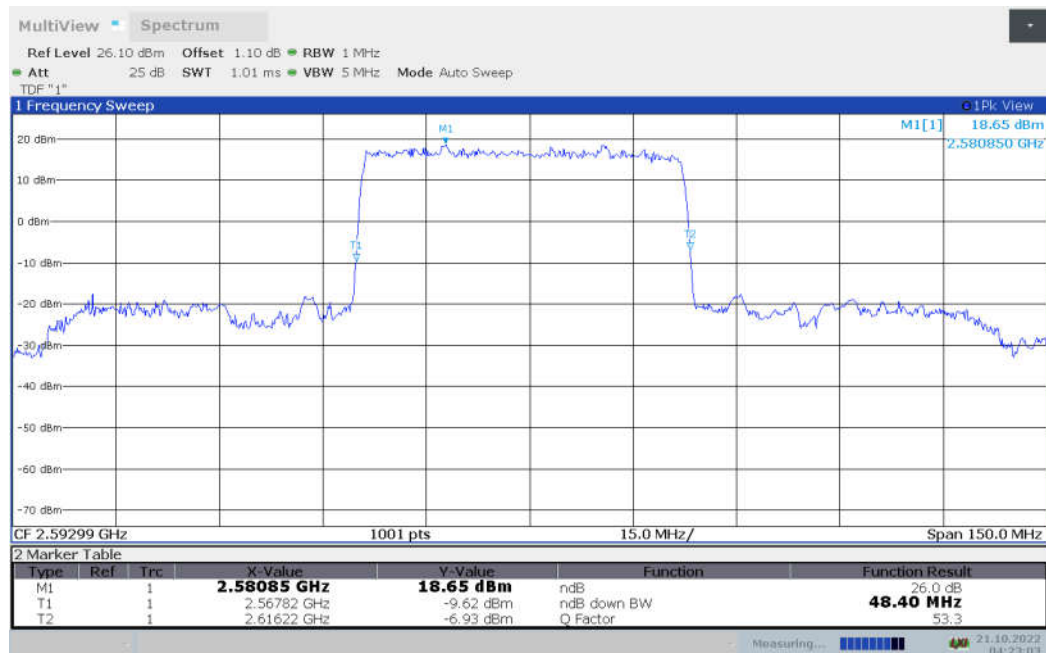


No. I22N02158-RF-NR

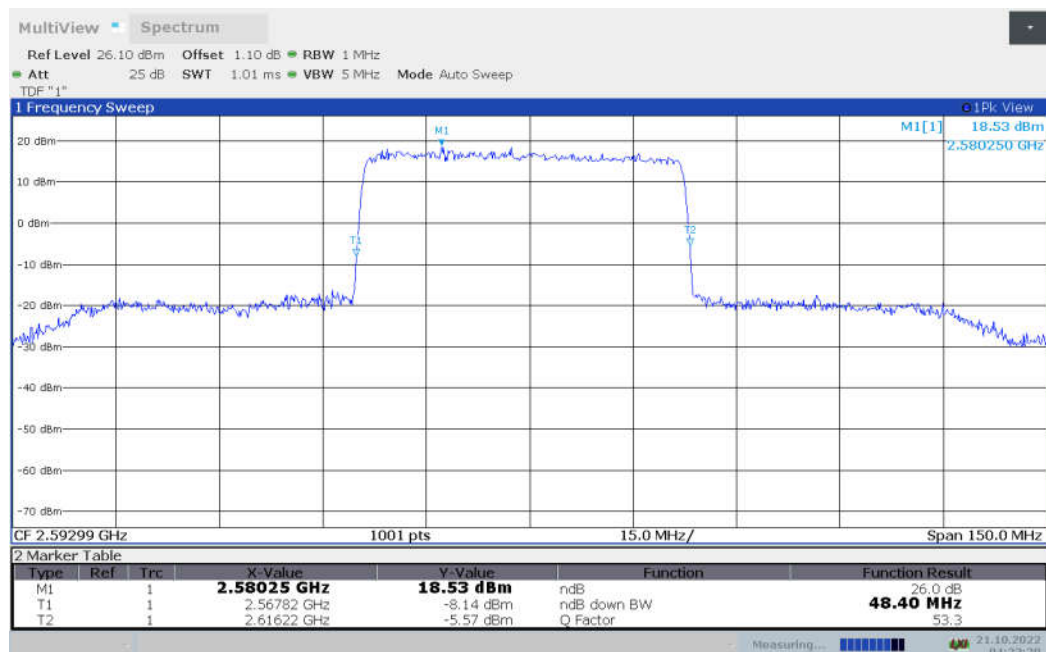
n41,50MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	48.400	48.400

n41,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

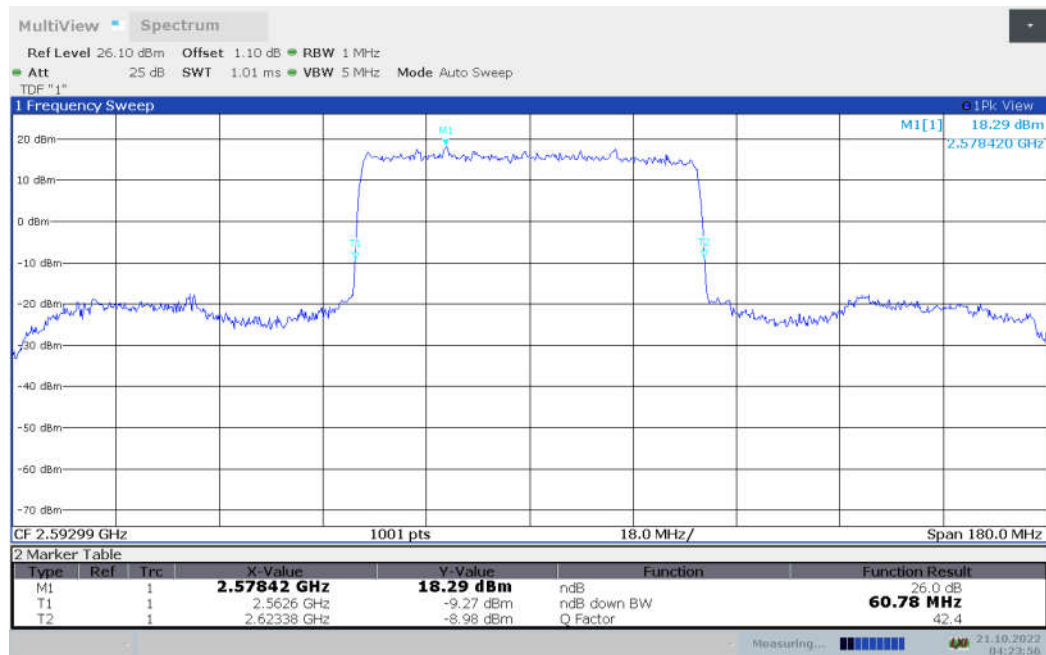


n41,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



n41,60MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	60.780	60.780

n41,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)

n41,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)
