

SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dBi



XMIT 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2021-09-13	2022-09-13
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	2022-01-19	2023-01-19
Block - DC	Fairview Microwave	SD3235-2148	ANF	2022-05-27	2023-05-27

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

Per FCC Part 25.253(b), the power of any emission outside of the authorized operating frequency range cannot exceed the band edge limit of -57.9 dBW/MHz converted to -27.9 dBm/MHz. The Remote Radio Head (RRH) may operate as a 4 port MIMO transmitter with transmitter outputs connected to two cross-polarized antennas [two transmitter outputs are connected to (+) radiators and two transmitter outputs are connected to (-) radiators]. The limit is adjusted to -30.9 dBm [-27.9 dBm -10 log (2)] per FCC KDB 662911D01 v02r01, ANSI C63.26-2015 section 6.4.6.3 b)2) and KDB 662911 D02v01 page 3 example (2) since the transmitter outputs to each antenna are 90 degree-phase shifted relative to each other (cross-polarized radiators).

Per FCC ANSI C63.26-2015 section 4.2.3 and 5.7.2 the first frequency range uses the limit correction factor of: $10 \log [(reference\ bandwidth) / (resolution\ or\ measurement\ bandwidth)] = 10 \log (1M/100k) = 10\ dB$ limit correction (RBW can be no smaller than 1% of the OBW or roughly 100kHz), and section 5.7.2 specifically allows for the second frequency range integration across the full measurement bandwidth.

RF conducted emissions testing was performed only on one port. The RRH antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown during output power testing) and antenna port 3 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

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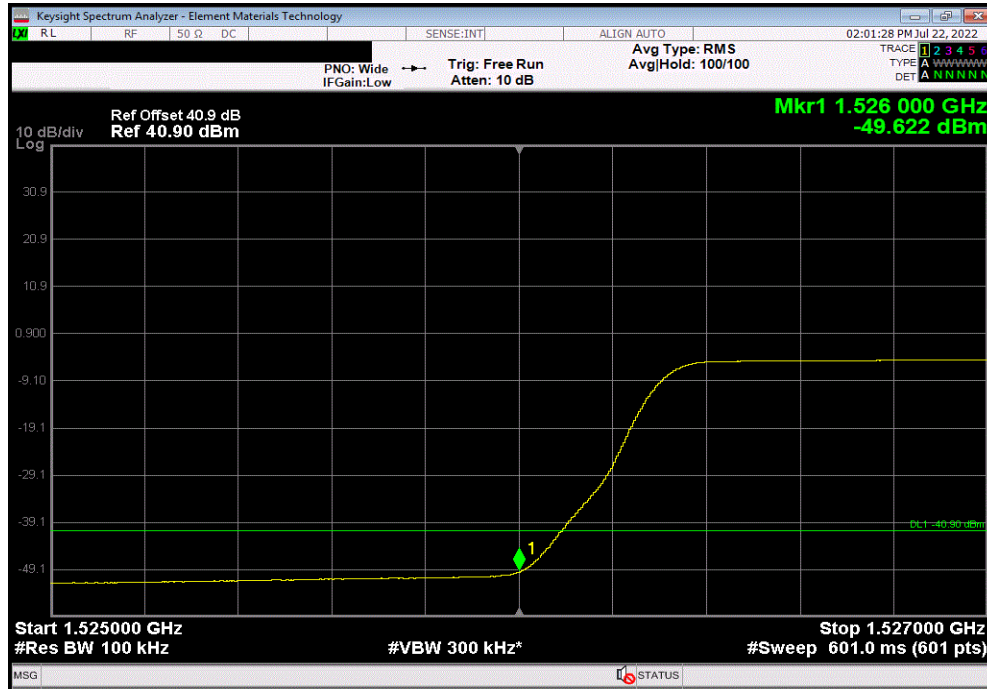
EUT: TR44KA Base Station		Work Order: MASY0006			
Serial Number: SV2146TR44KA000001		Date: 9-Aug-22			
Customer: Mavenir Systems, Inc		Temperature: 20.9 °C			
Attendees: None		Humidity: 55.8% RH			
Project: None		Barometric Pres.: 1019 mbar			
Tested by: Brandon Hobbs		Power: 48 VDC	Job Site: TX09		
TEST SPECIFICATIONS		Test Method			
FCC 25:2022		ANSI C63.26:2015			
COMMENTS					
All conducted path losses were accounted for: cables, attenuators, adapters, DC block and notch filter. The PA gain was adjusted for a 16dBi antenna (Final software value of 29). The initial limit was adjusted to -30.9 dBm [-27.9 dBm -10 log (2)] per FCC KDB 662911D01 v02r01, ANSI C63.26-2015 section 6.4.6.3 b)2) and KDB 662911 D02v01 page 3 example (2) since the transmitter outputs to each antenna are 90 degree-phase shifted relative to each other (cross-polarized radiators). The Widest and Narrowest Resource Block / Offset configurations were used.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	1	Signature 			
		Frequency Range	Max Value (dBm)	Limit (dBm)	Result
5G NR, Band n24, SCS 15kHz					
10 MHz Bandwidth					
QPSK Modulation					
Low Side Channel 1531 MHz					
		25 RB/O Offset	1	-49.6	Pass
		25 RB/O Offset	2	-42.4	Pass
		25 RB/O Offset	3	-42.0	Pass
		25 RB/27 Offset	1	-50.8	Pass
		25 RB/27 Offset	2	-42.7	Pass
		25 RB/27 Offset	3	-42.0	Pass
		52 RB/O Offset	1	-49.3	Pass
		52 RB/O Offset	2	-42.4	Pass
		52 RB/O Offset	3	-42.0	Pass
High Side Channel 1531 MHz					
		25 RB/O Offset	1	-50.6	Pass
		25 RB/O Offset	2	-42.2	Pass
		25 RB/O Offset	3	-41.9	Pass
		25 RB/27 Offset	1	-48.8	Pass
		25 RB/27 Offset	2	-41.9	Pass
		25 RB/27 Offset	3	-41.8	Pass
		52 RB/O Offset	1	-48.8	Pass
		52 RB/O Offset	2	-41.8	Pass
		52 RB/O Offset	3	-41.7	Pass
16-QAM Modulation					
Low Side Channel 1531 MHz					
		25 RB/O Offset	1	-49.0	Pass
		25 RB/O Offset	2	-42.2	Pass
		25 RB/O Offset	3	-42.0	Pass
		25 RB/27 Offset	1	-50.7	Pass
		25 RB/27 Offset	2	-42.7	Pass
		25 RB/27 Offset	3	-42.0	Pass
		52 RB/O Offset	1	-48.9	Pass
		52 RB/O Offset	2	-42.4	Pass
		52 RB/O Offset	3	-42.0	Pass
High Side Channel 1531 MHz					
		25 RB/O Offset	1	-50.6	Pass
		25 RB/O Offset	2	-42.2	Pass
		25 RB/O Offset	3	-41.9	Pass
		25 RB/27 Offset	1	-48.2	Pass
		25 RB/27 Offset	2	-41.9	Pass
		25 RB/27 Offset	3	-41.8	Pass
		52 RB/O Offset	1	-49.0	Pass
		52 RB/O Offset	2	-41.9	Pass
		52 RB/O Offset	3	-41.8	Pass
64-QAM Modulation					
Low Side Channel 1531 MHz					
		25 RB/O Offset	1	-49.4	Pass
		25 RB/O Offset	2	-42.4	Pass
		25 RB/O Offset	3	-42.0	Pass
		25 RB/27 Offset	1	-50.8	Pass
		25 RB/27 Offset	2	-42.6	Pass
		25 RB/27 Offset	3	-42.0	Pass
		52 RB/O Offset	1	-49.0	Pass
		52 RB/O Offset	2	-42.4	Pass
		52 RB/O Offset	3	-42.0	Pass
High Side Channel 1531 MHz					
		25 RB/O Offset	1	-50.6	Pass
		25 RB/O Offset	2	-42.1	Pass
		25 RB/O Offset	3	-41.9	Pass
		25 RB/27 Offset	1	-49.1	Pass
		25 RB/27 Offset	2	-41.9	Pass
		25 RB/27 Offset	3	-41.8	Pass
		52 RB/O Offset	1	-49.2	Pass
		52 RB/O Offset	2	-41.9	Pass
		52 RB/O Offset	3	-41.8	Pass
256-QAM Modulation					
Low Side Channel 1531 MHz					
		25 RB/O Offset	1	-49.0	Pass
		25 RB/O Offset	2	-42.4	Pass
		25 RB/O Offset	3	-42.0	Pass
		25 RB/27 Offset	1	-50.8	Pass
		25 RB/27 Offset	2	-42.6	Pass
		25 RB/27 Offset	3	-42.0	Pass
		52 RB/O Offset	1	-48.7	Pass
		52 RB/O Offset	2	-42.4	Pass
		52 RB/O Offset	3	-42.0	Pass
High Side Channel 1531 MHz					
		25 RB/O Offset	1	-50.5	Pass
		25 RB/O Offset	2	-42.1	Pass
		25 RB/O Offset	3	-41.9	Pass
		25 RB/27 Offset	1	-49.2	Pass
		25 RB/27 Offset	2	-41.9	Pass
		25 RB/27 Offset	3	-41.8	Pass
		52 RB/O Offset	1	-49.0	Pass
		52 RB/O Offset	2	-41.8	Pass
		52 RB/O Offset	3	-41.8	Pass

SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

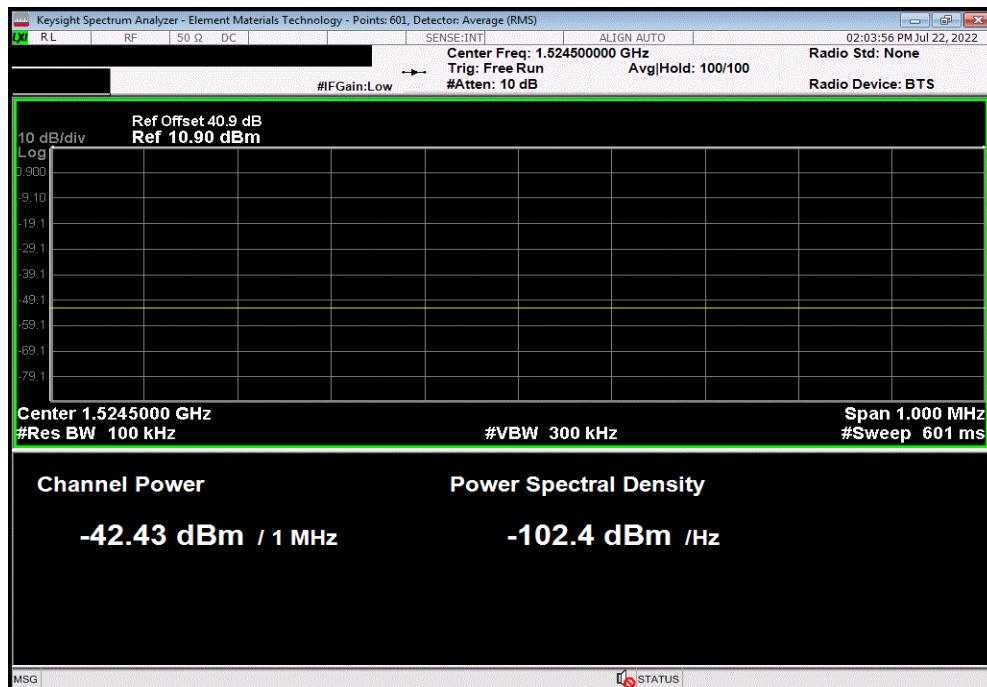


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-49.62		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.43		-30.9		Pass

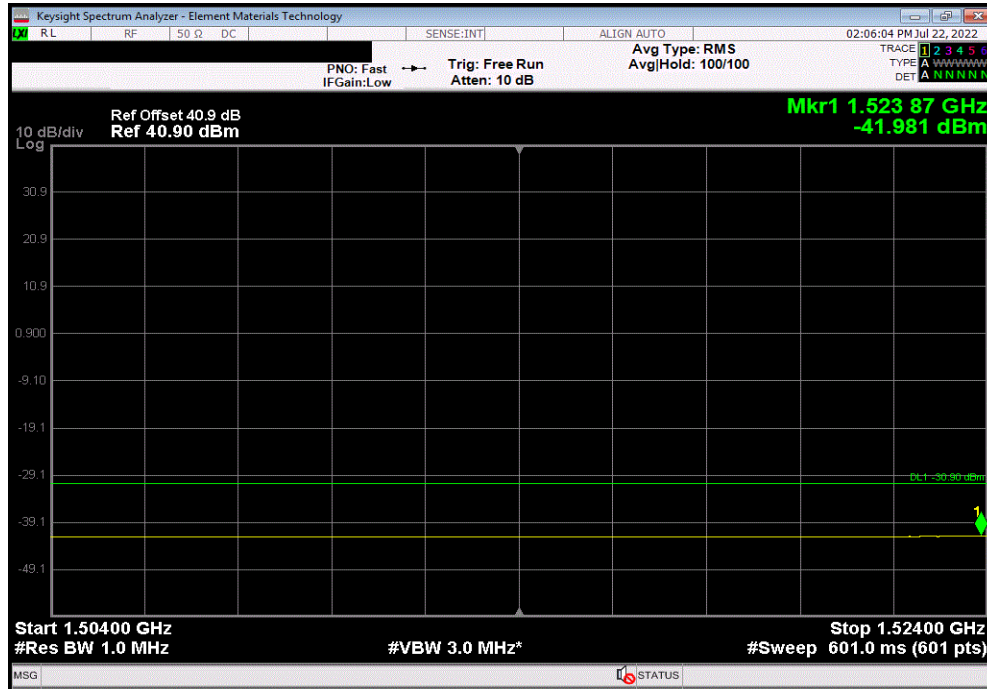


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

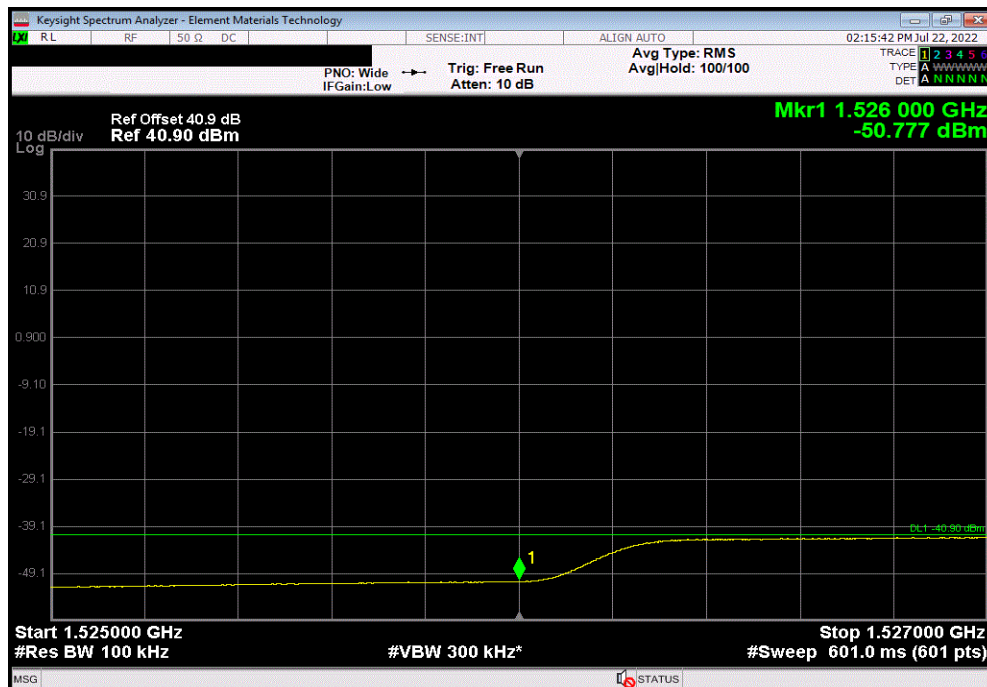


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.98		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.78		-40.9	Pass	

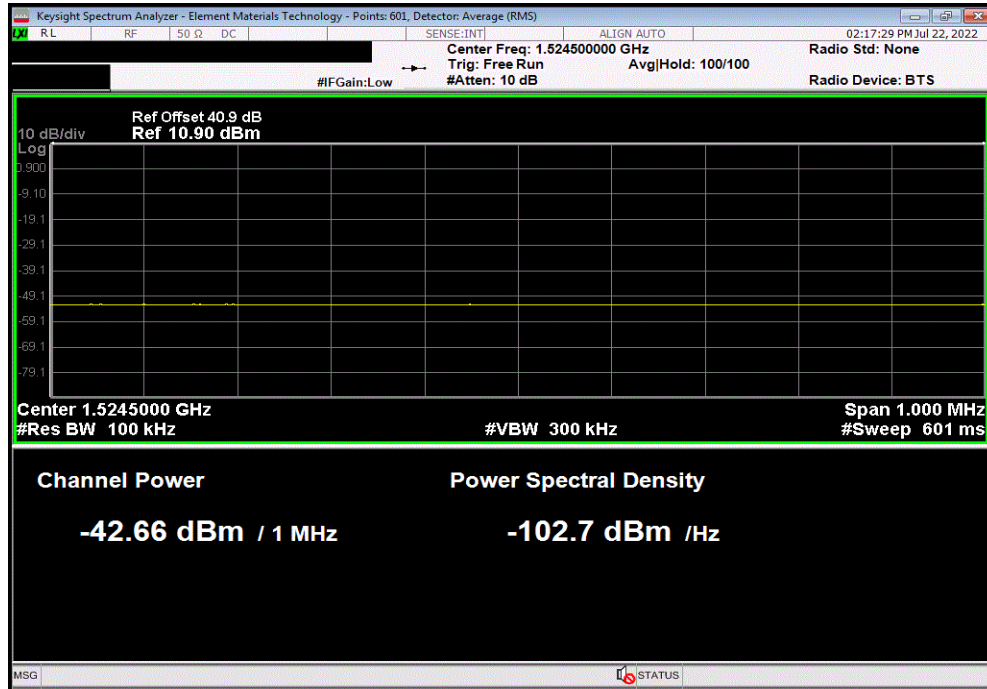


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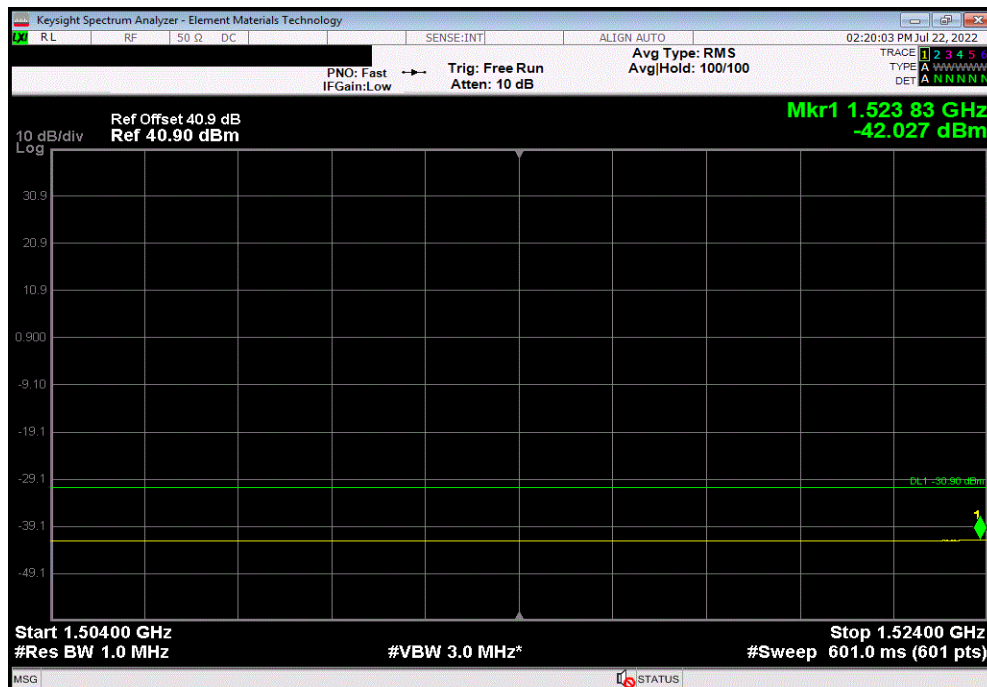


TbTx 2022.05.02.0 XMI 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
2		-42.66		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-42.03		-30.9	Pass	

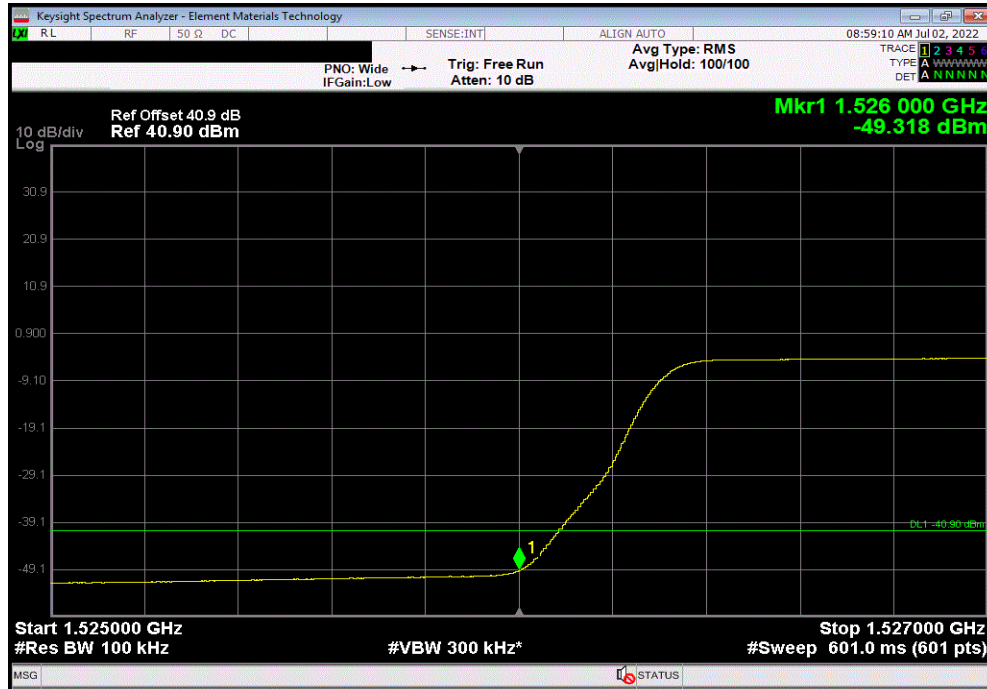


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dBi

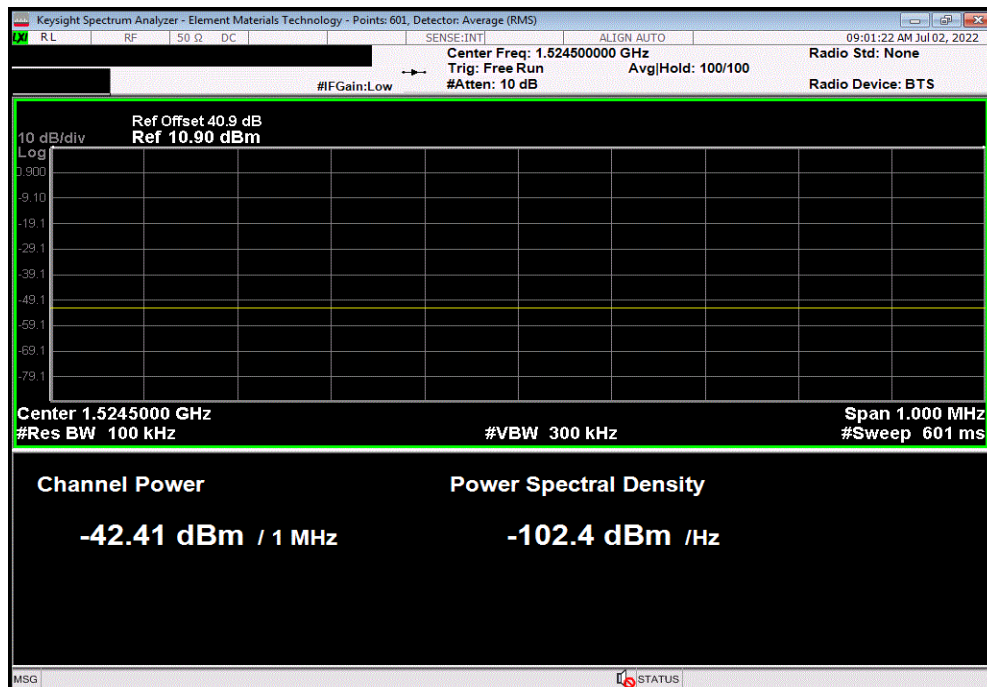


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-49.32		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.41		-30.9		Pass

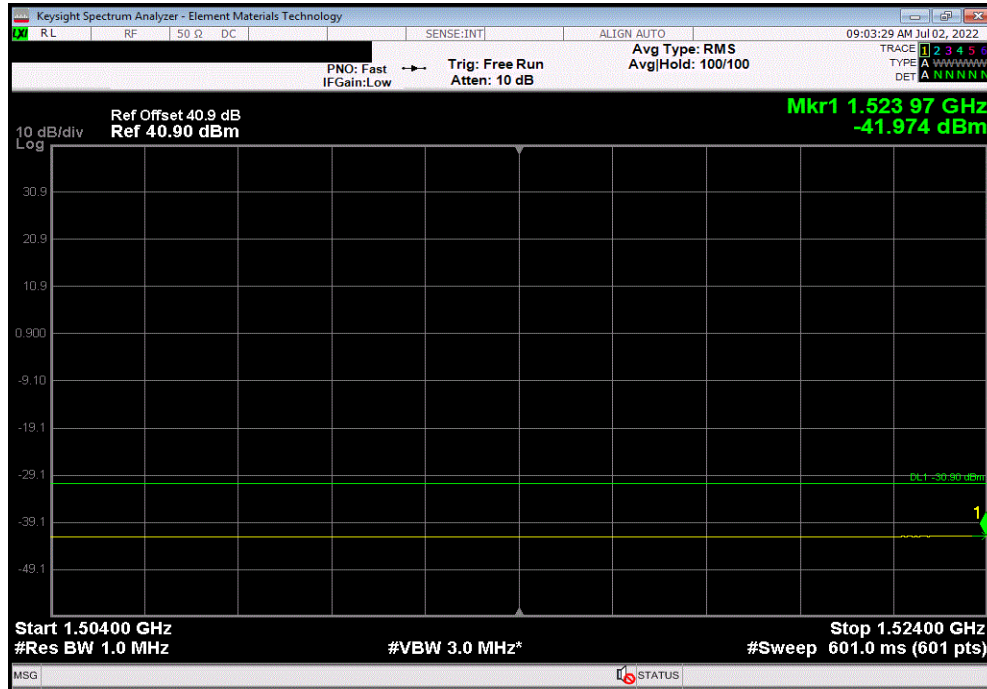


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

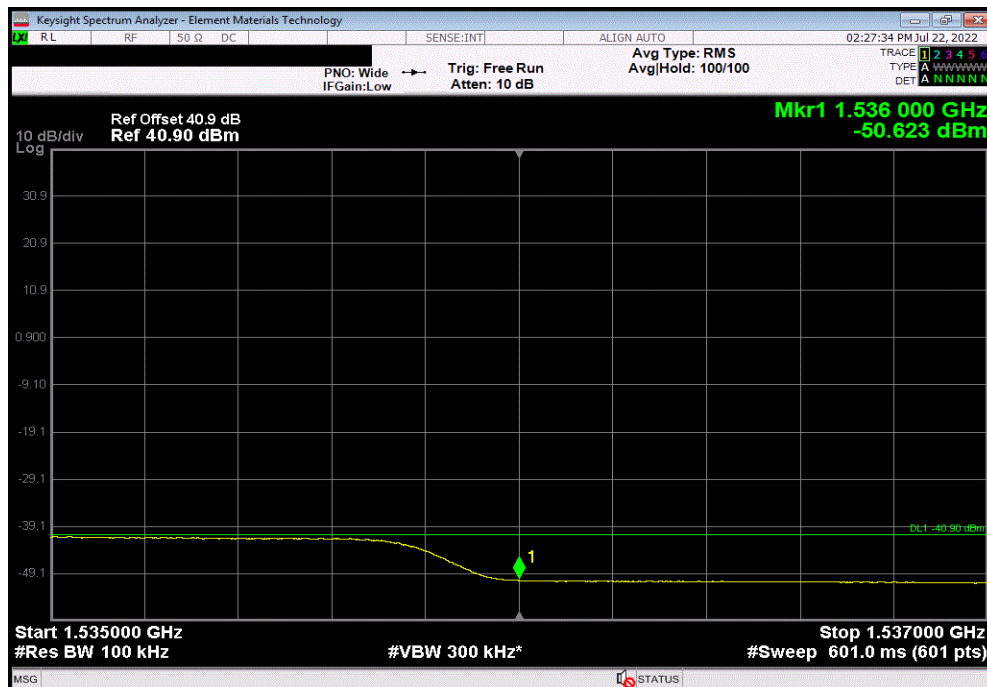


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.97		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.62		-40.9	Pass	

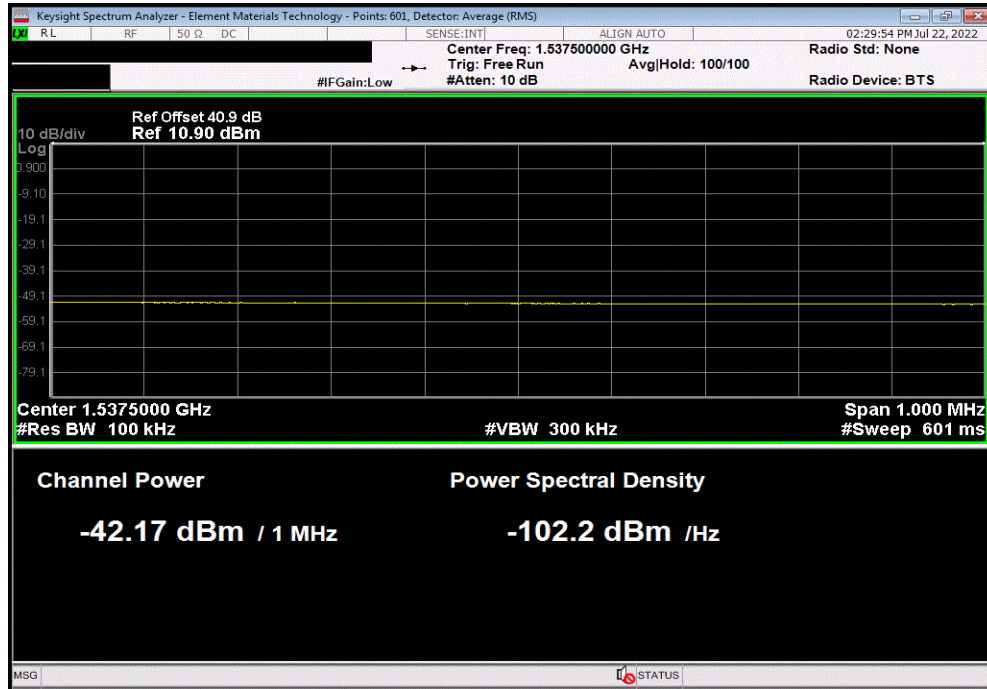


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

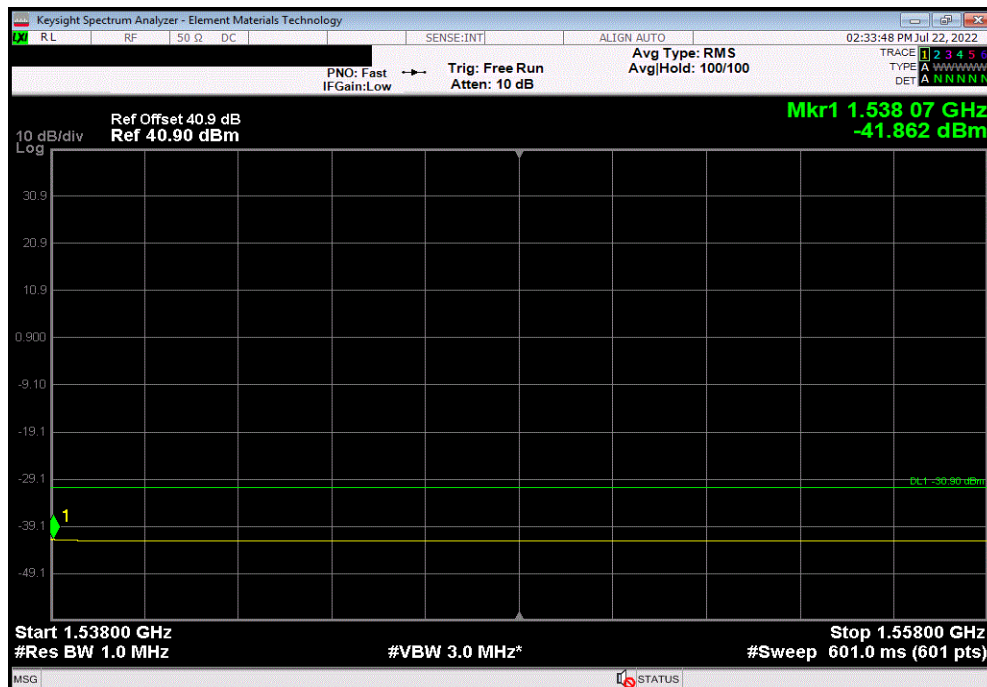


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-42.17	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.86	-30.9	Pass			

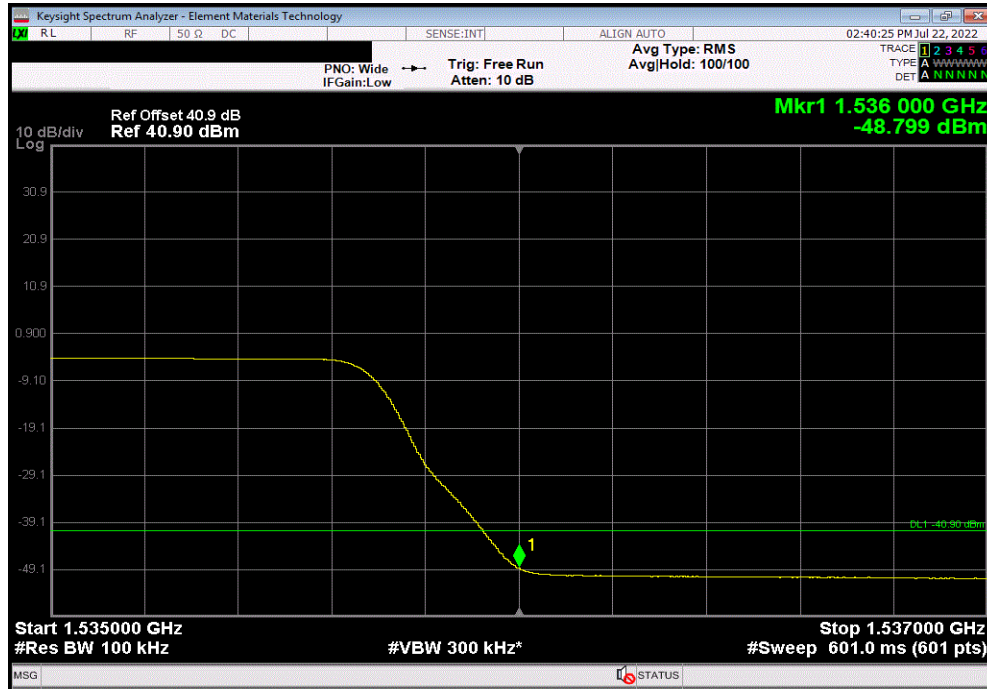


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

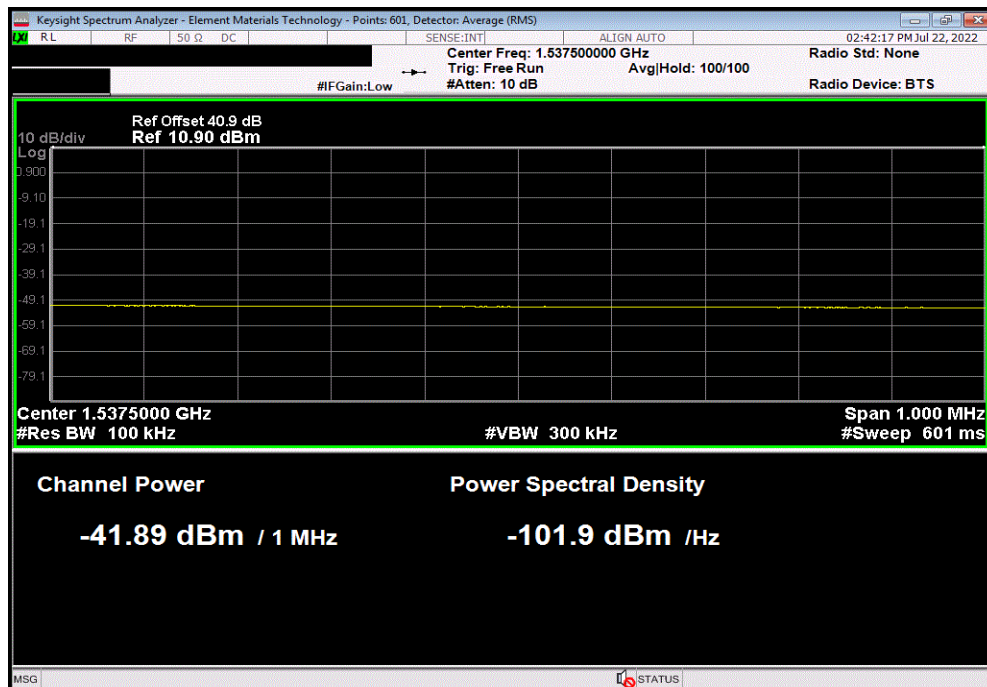


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-48.80		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-41.89		-30.9		Pass

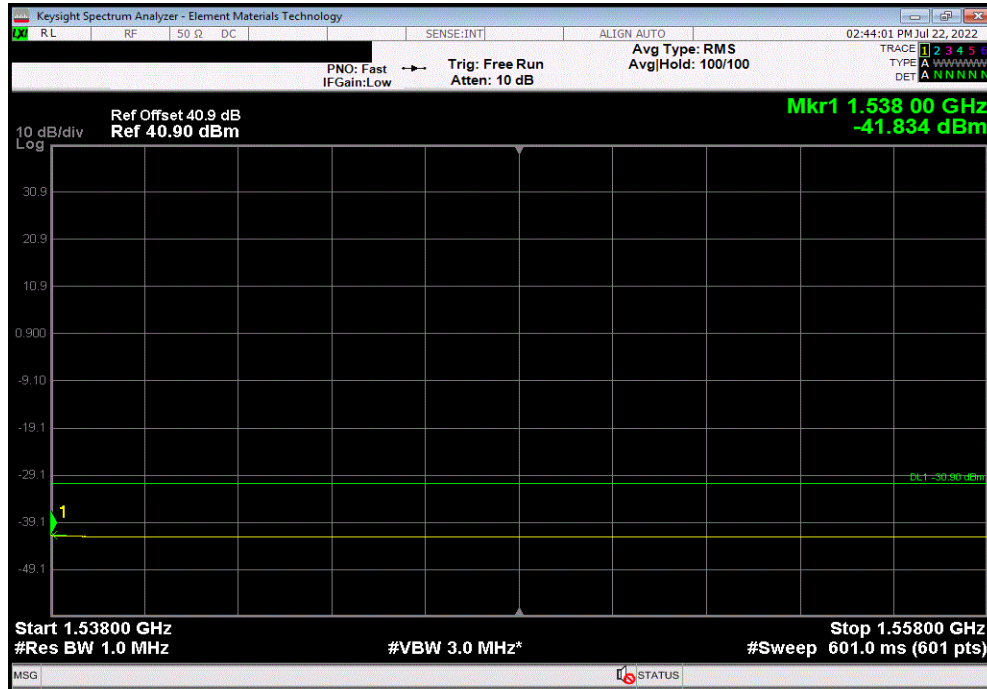


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

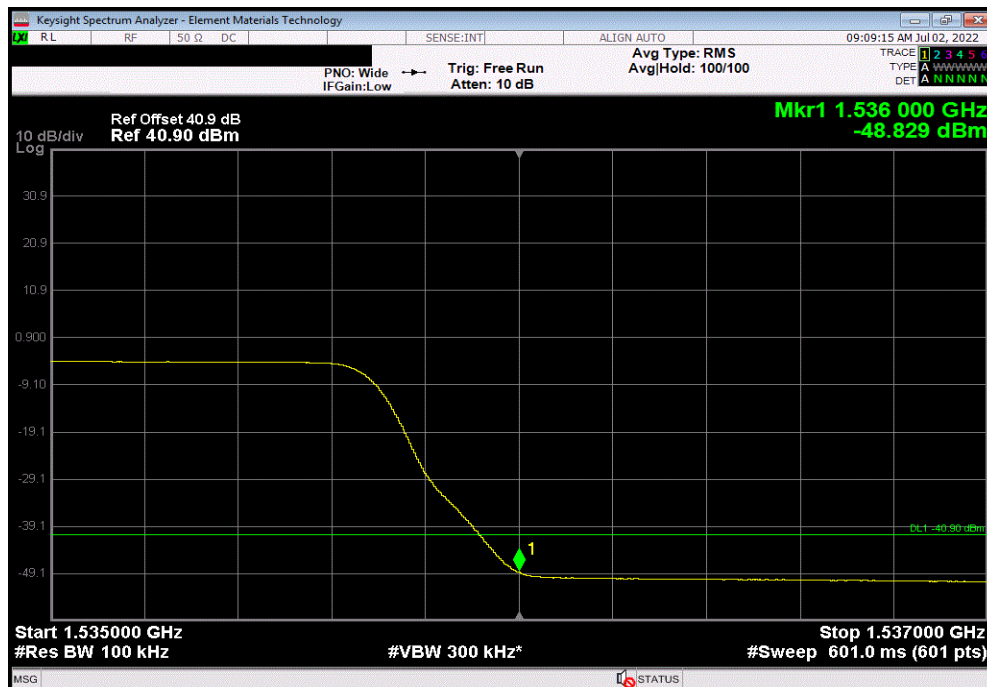


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.83		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-48.83		-40.9	Pass	

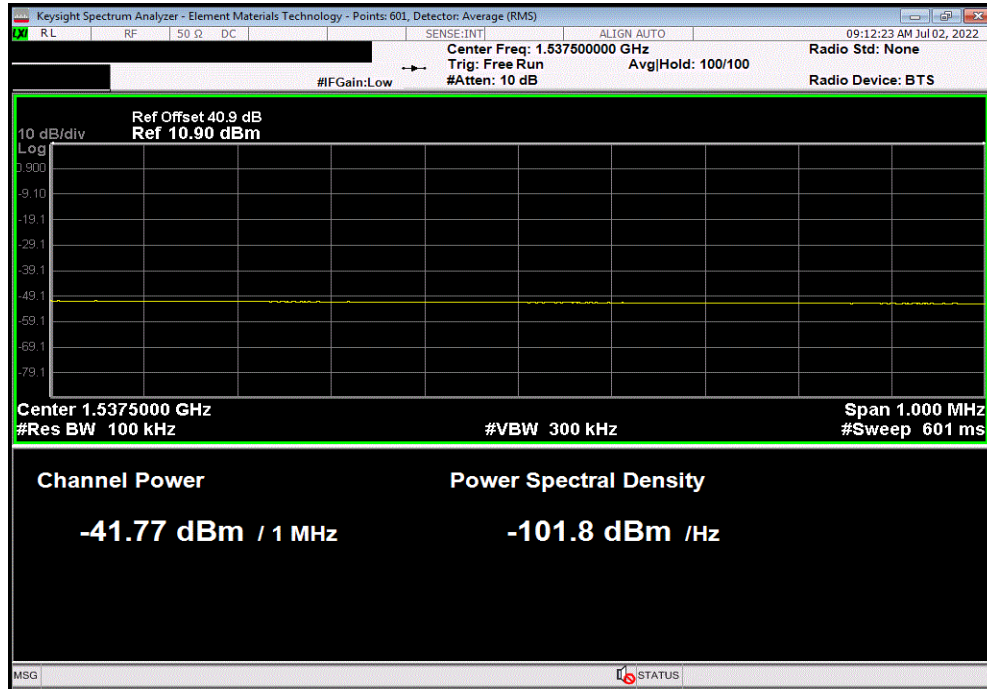


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

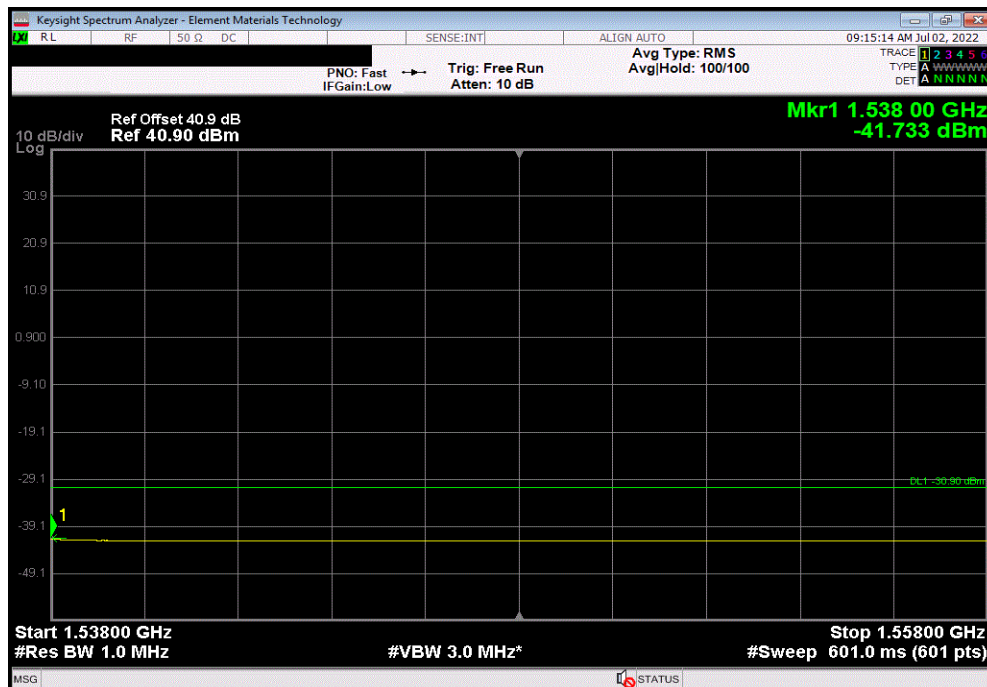


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-41.77	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, QPSK Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.73	-30.9	Pass			

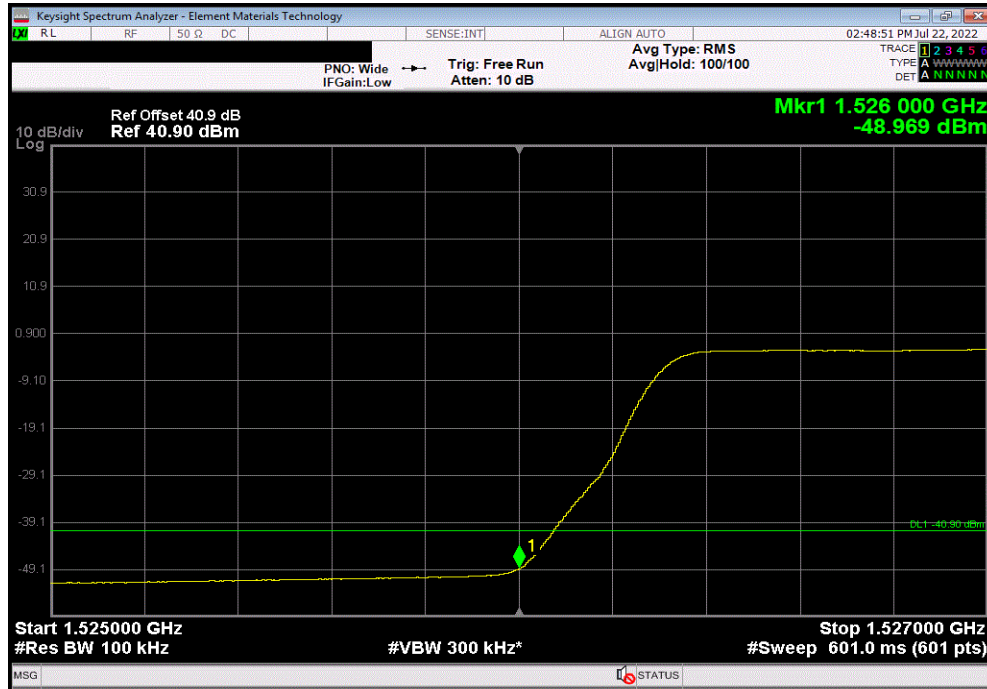


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

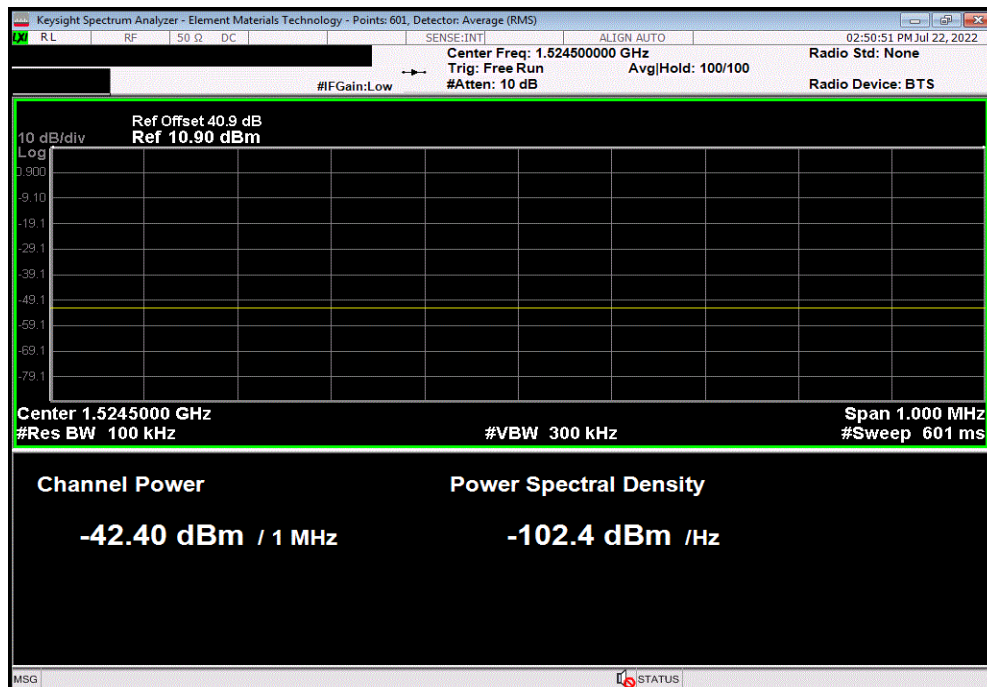


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-48.97		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.20		-30.9		Pass

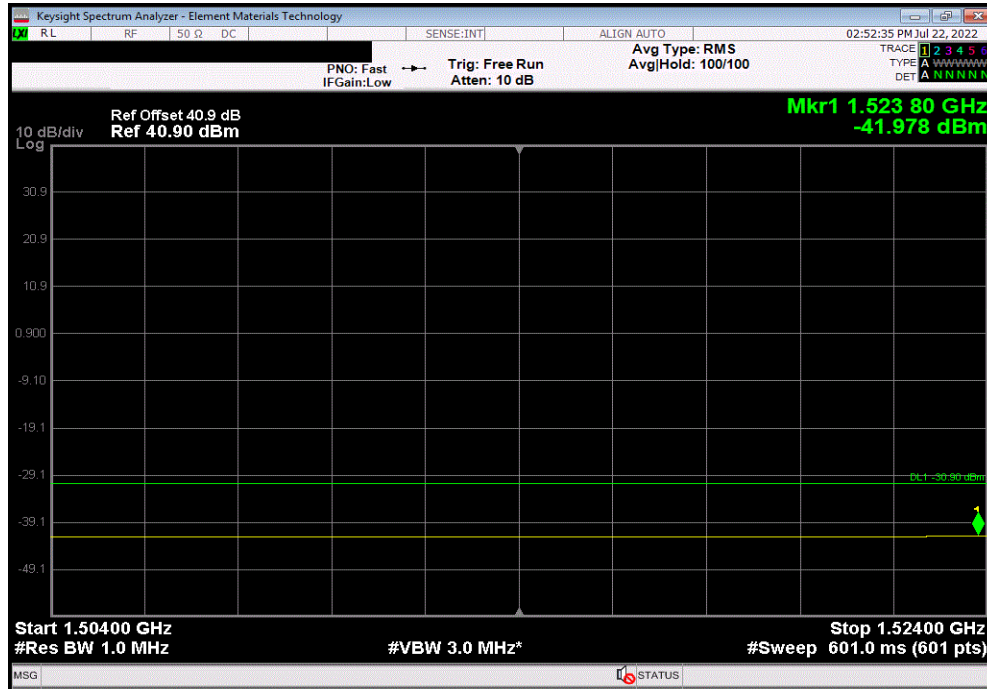


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

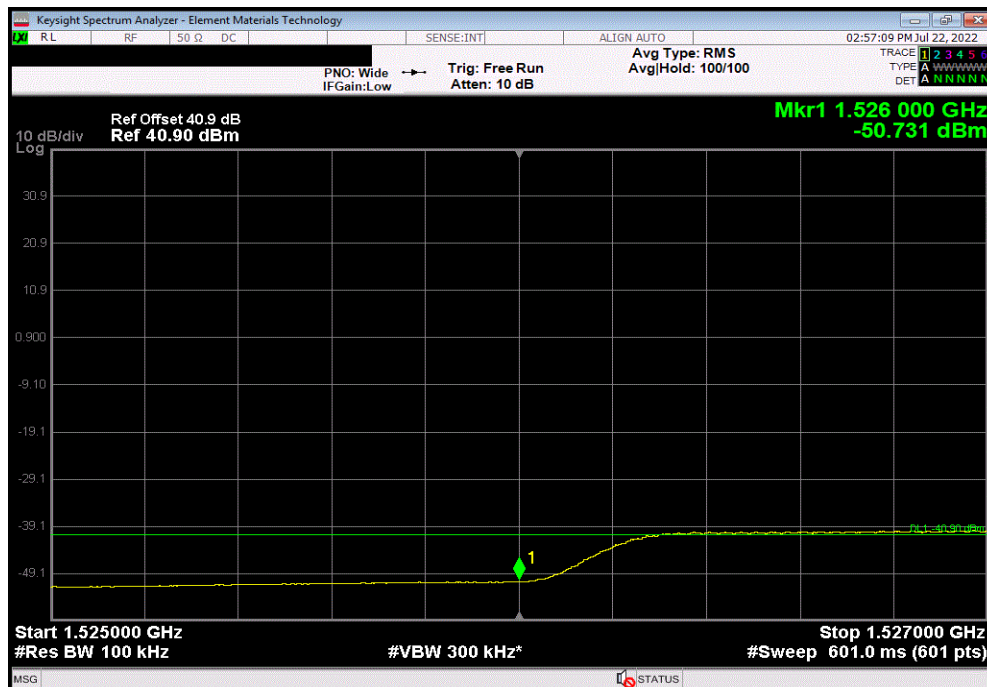


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)	Limit (dBm)	Result		
3		-41.98	-30.9	Pass		



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)	Limit (dBm)	Result		
1		-50.73	-40.9	Pass		

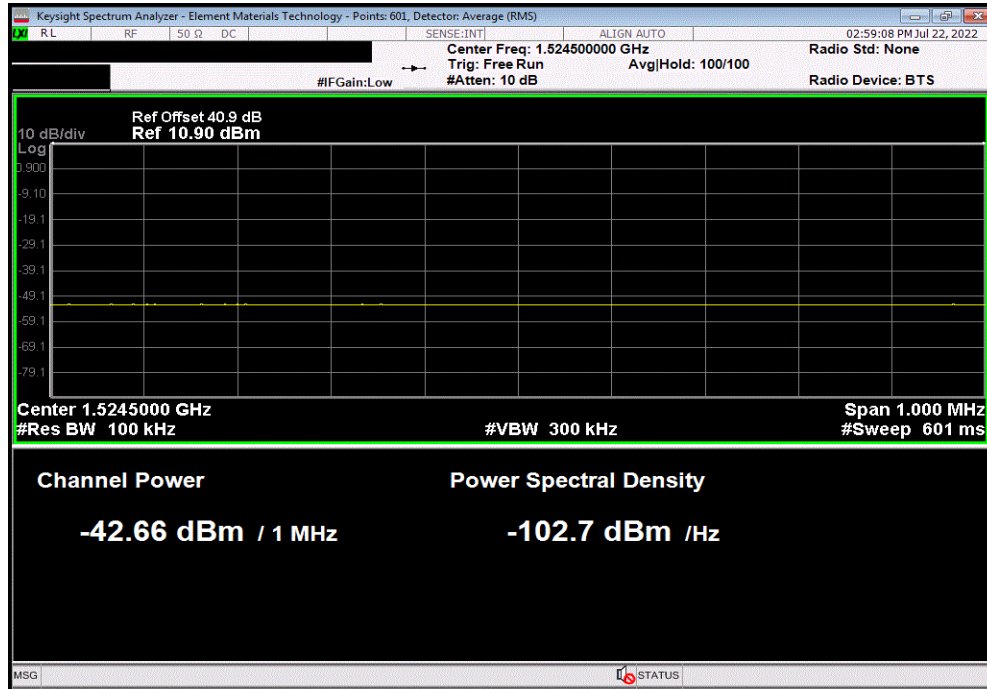


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dBi

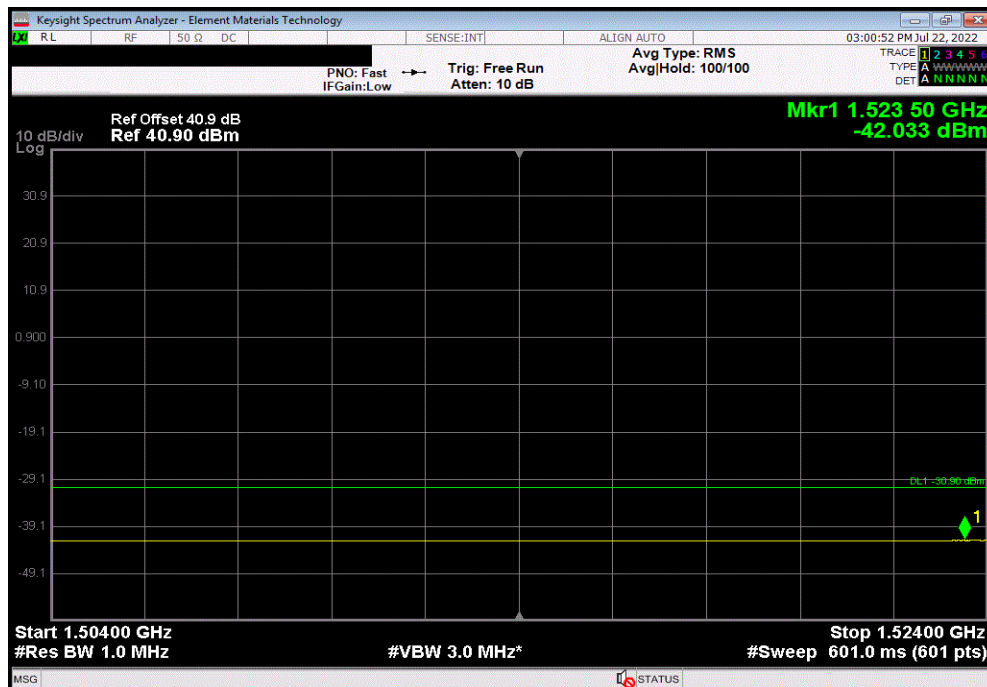


TbTx 2022.05.02.0 XMI 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-42.66	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-42.03	-30.9	Pass			

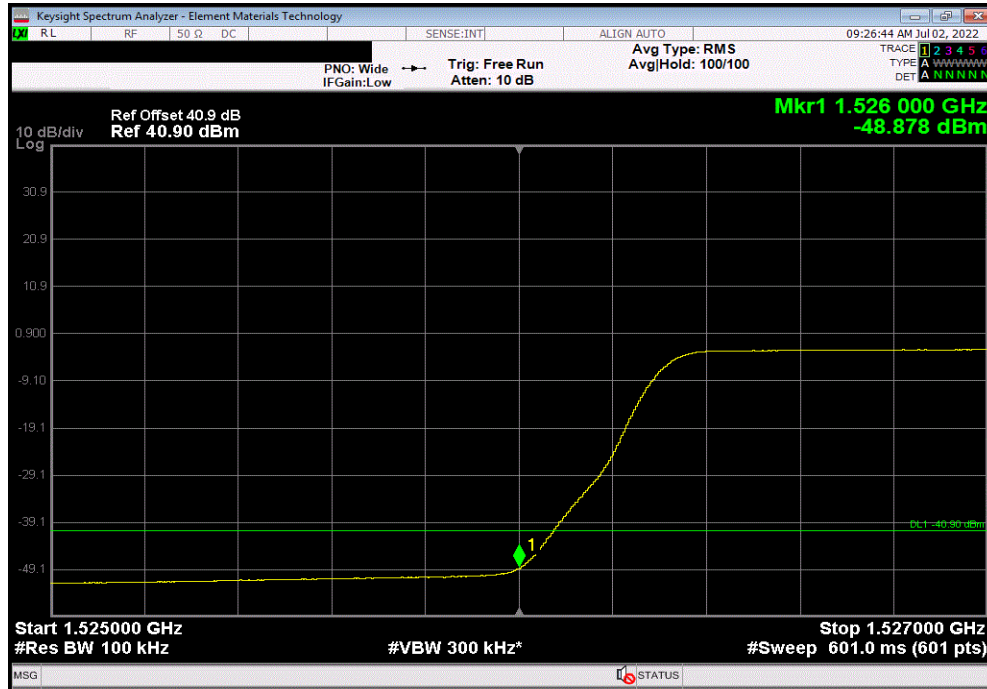


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

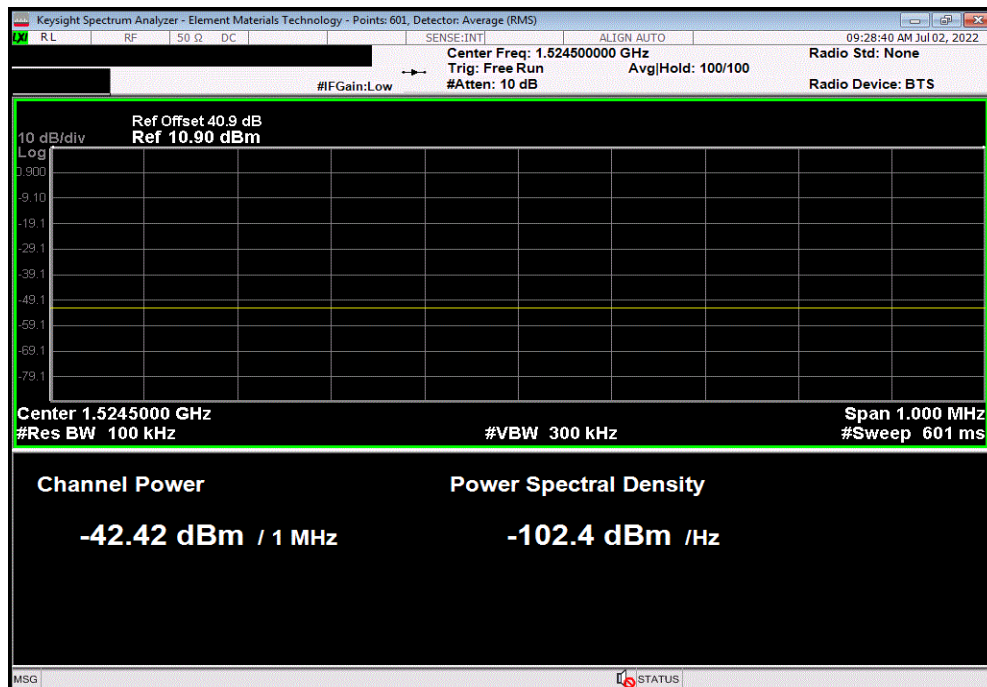


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-48.88		-40.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
2		-42.42		-30.9	Pass	

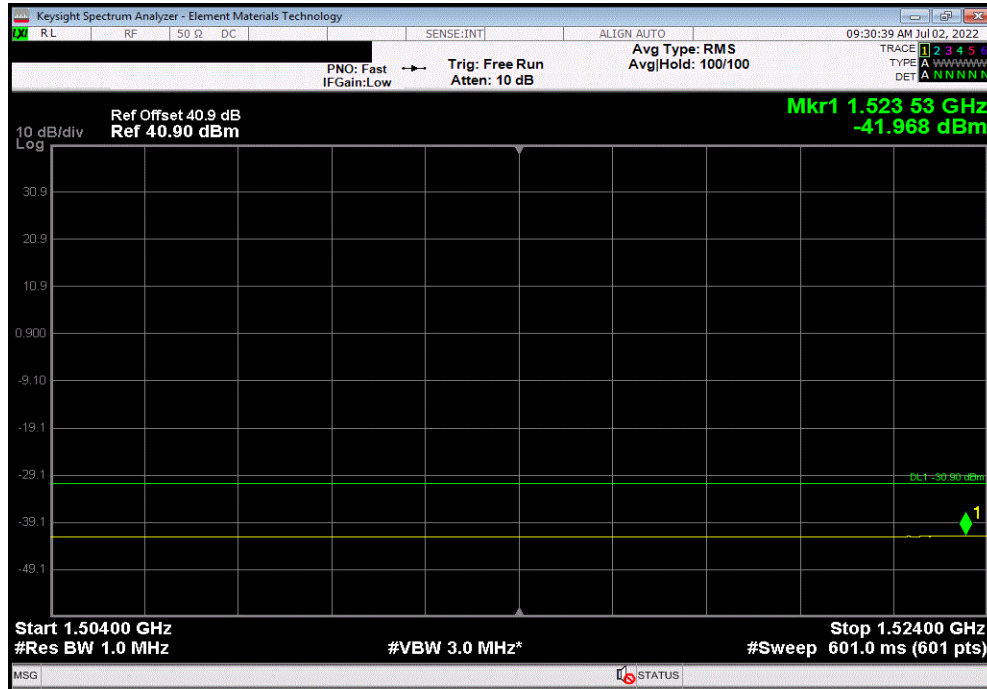


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

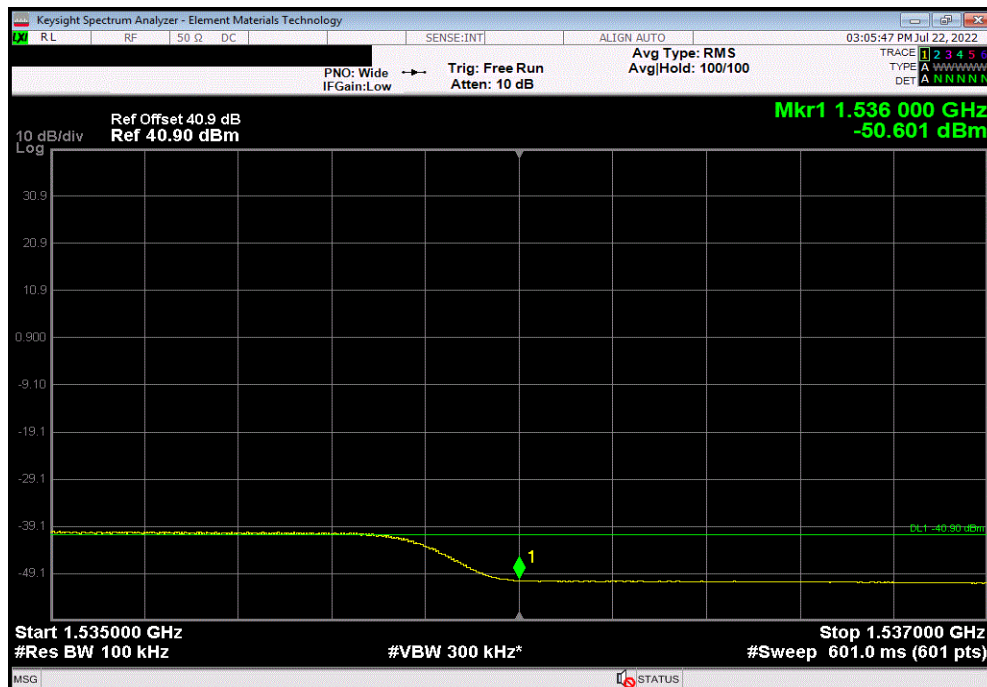


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.97		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.60		-40.9	Pass	

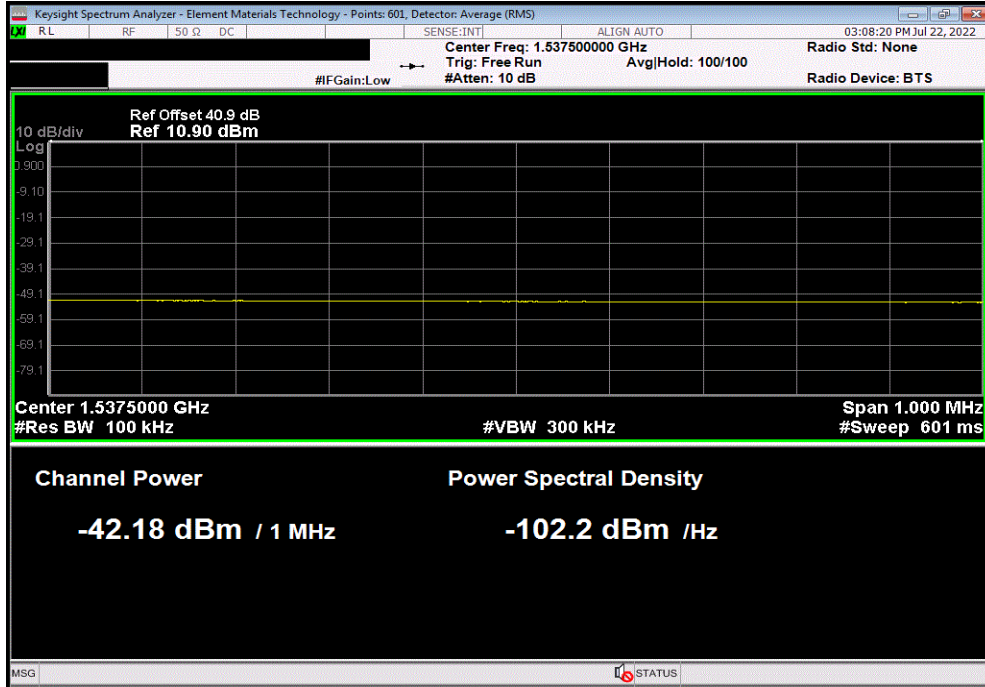


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

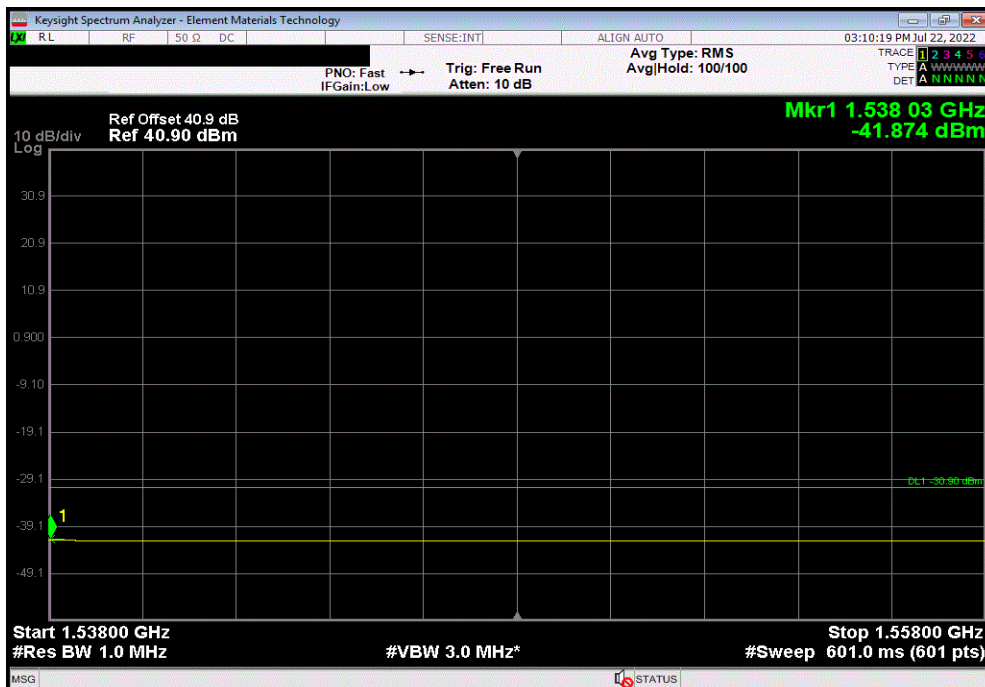


TbTx 2022.05.02.0 XMR 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-42.18	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.87	-30.9	Pass			

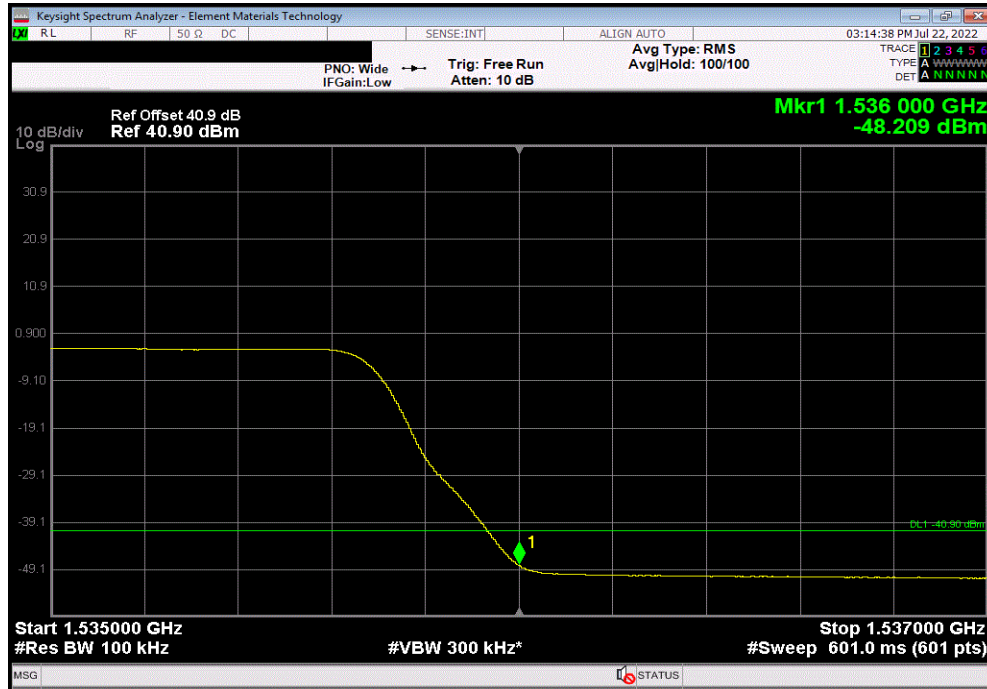


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

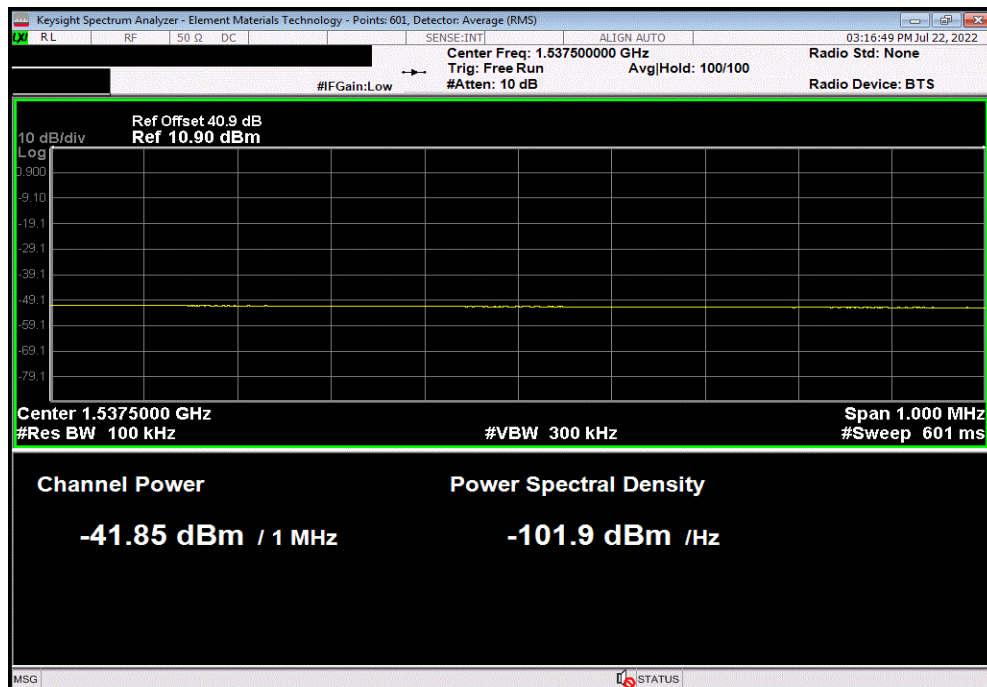


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-48.21		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-41.85		-30.9		Pass

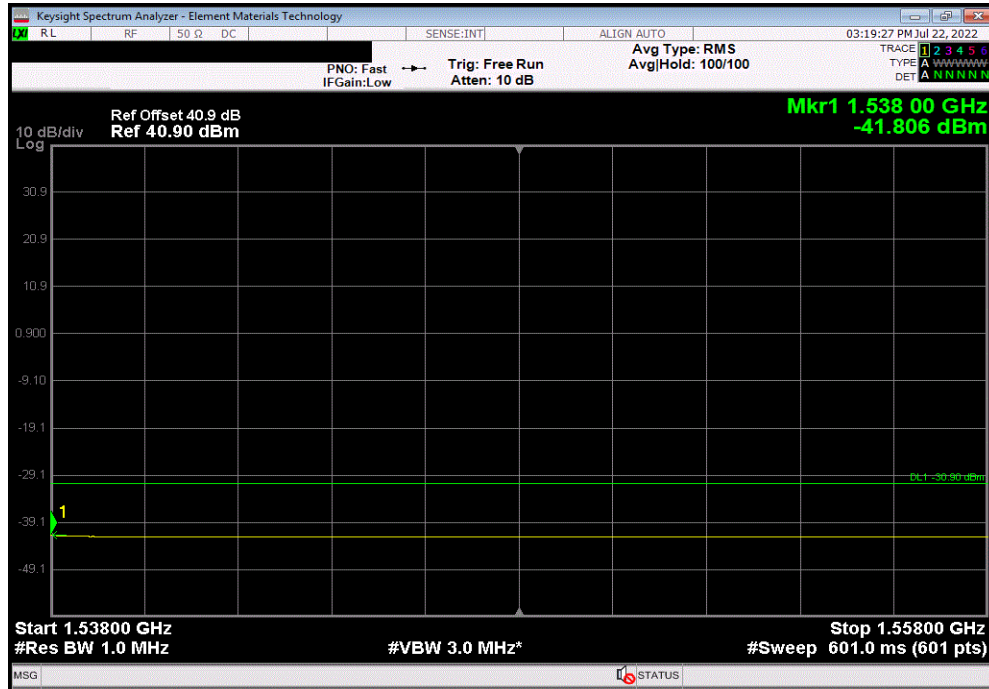


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

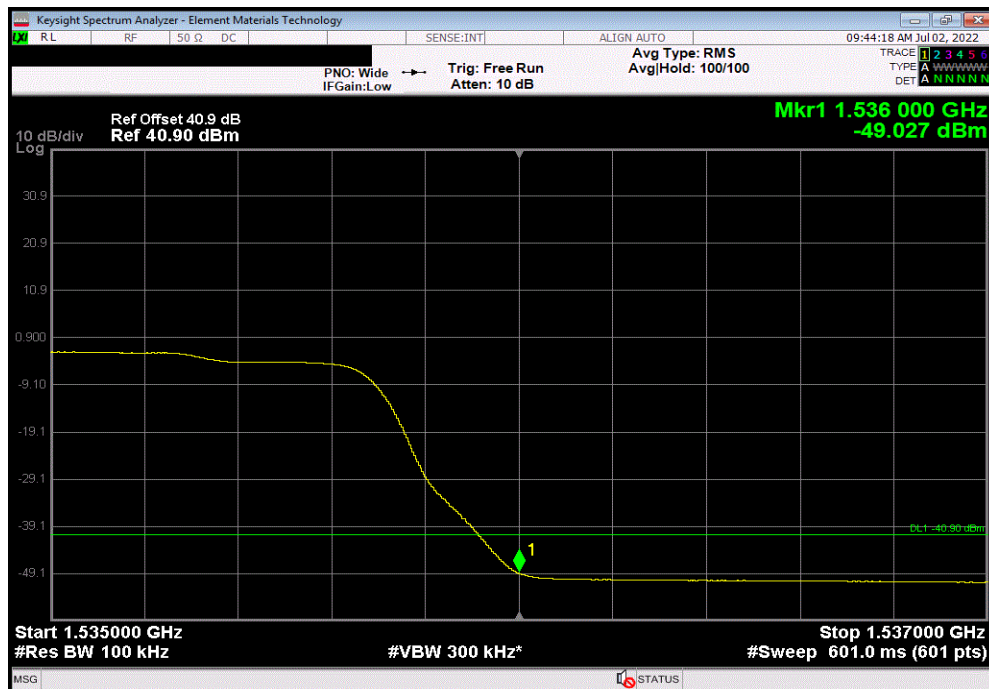


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.81	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-49.03	-40.9	Pass			

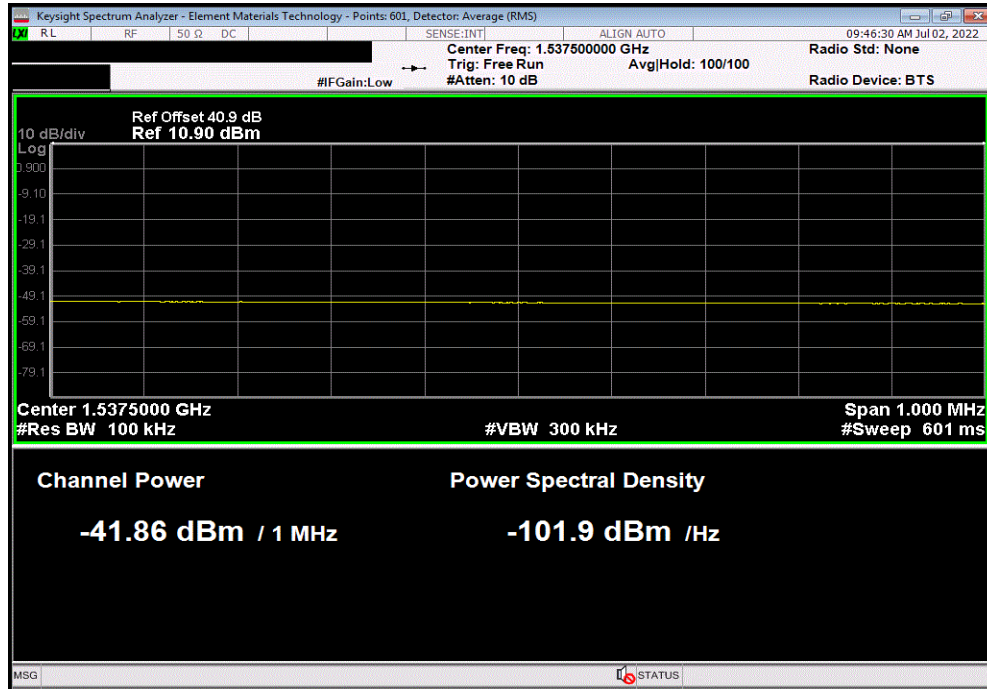


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

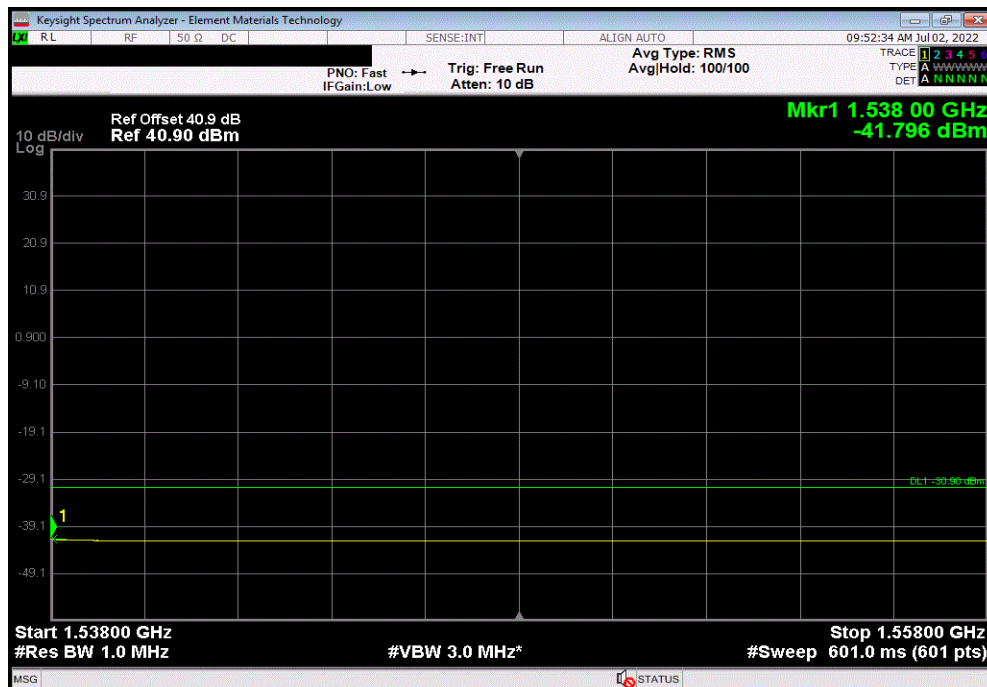


TbTtX 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-41.86	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 16-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.80	-30.9	Pass			

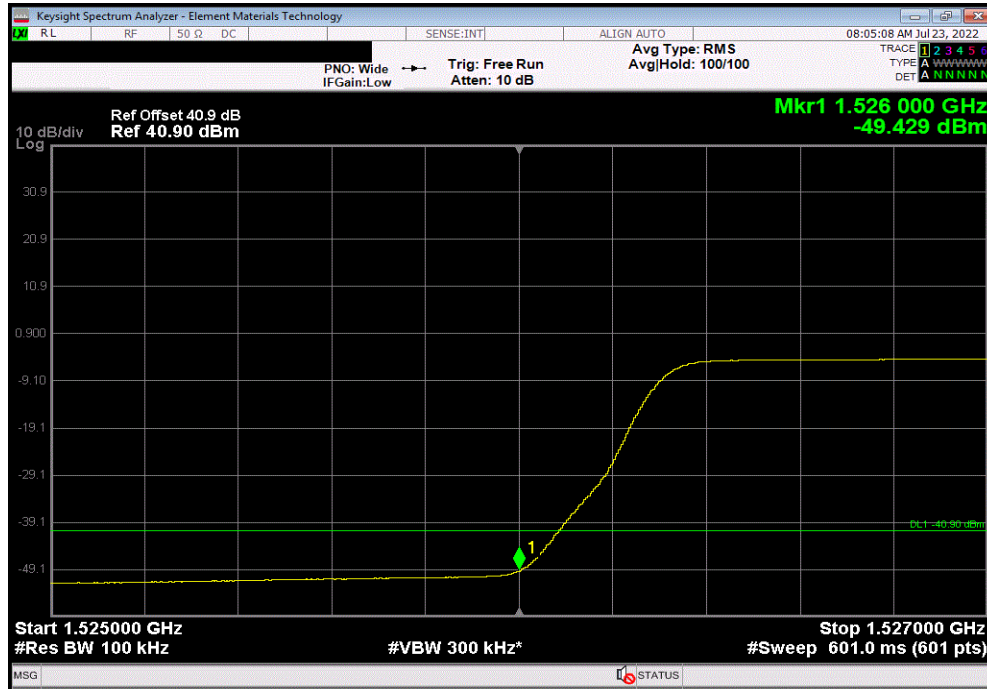


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

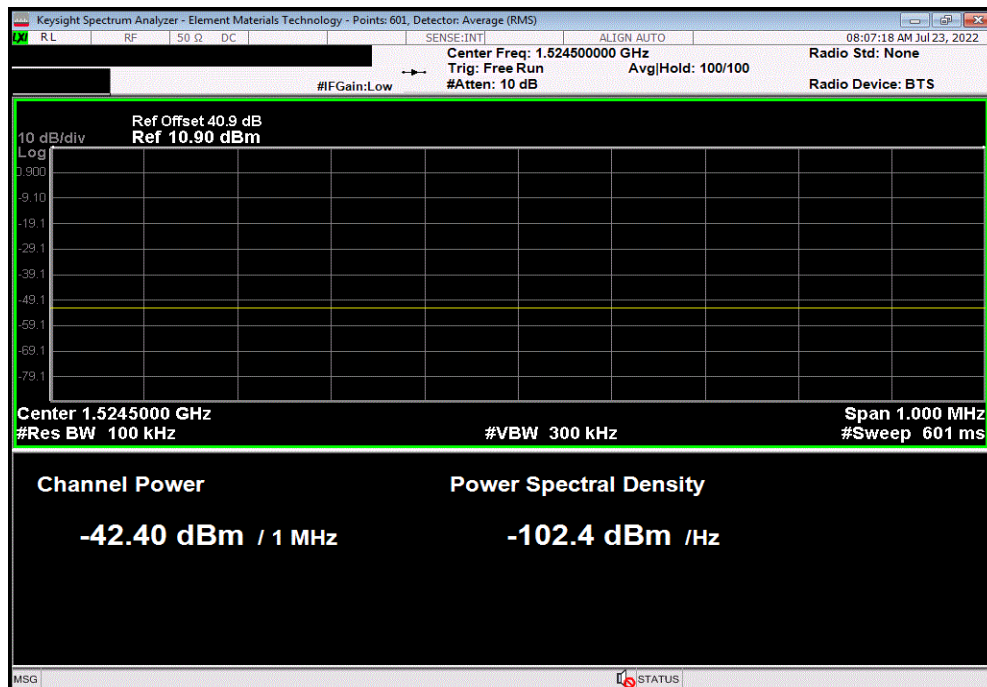


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-49.43		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.40		-30.9		Pass

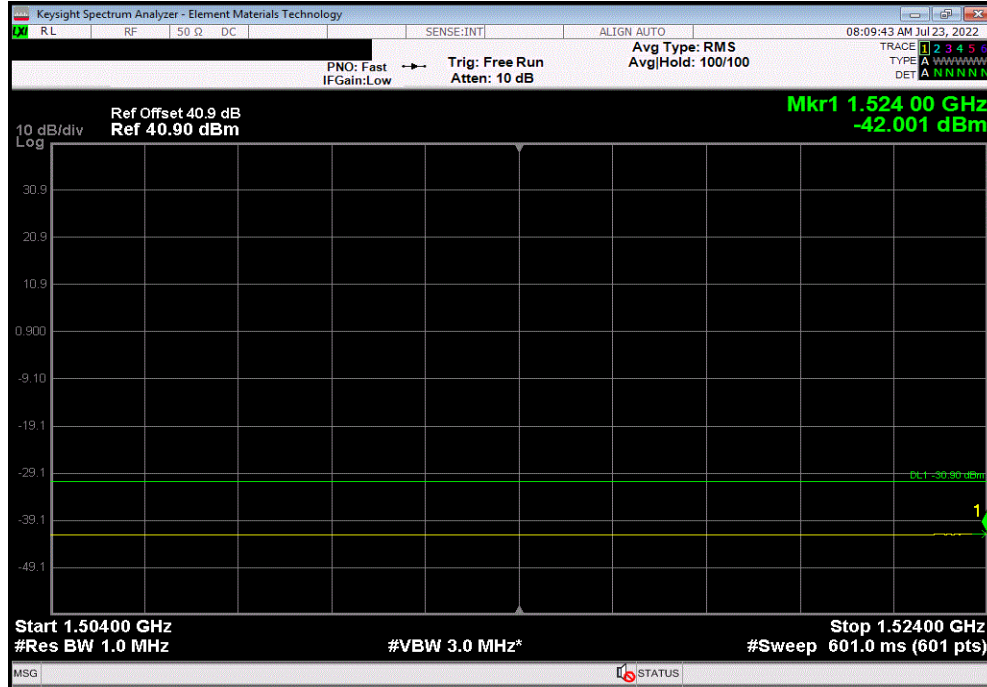


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

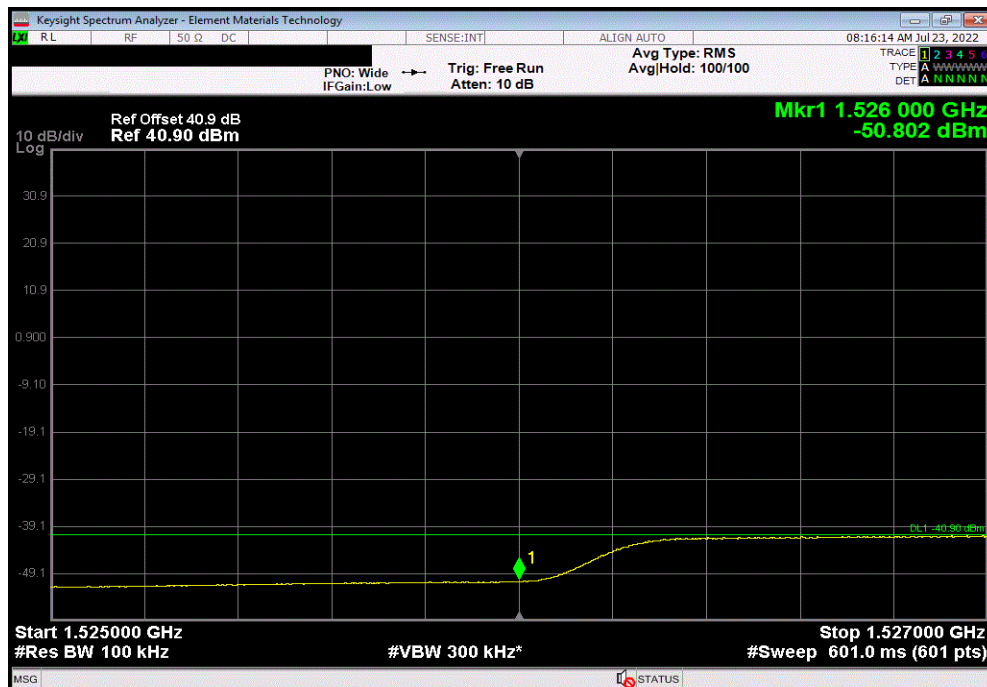


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-42.00		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.80		-40.9	Pass	

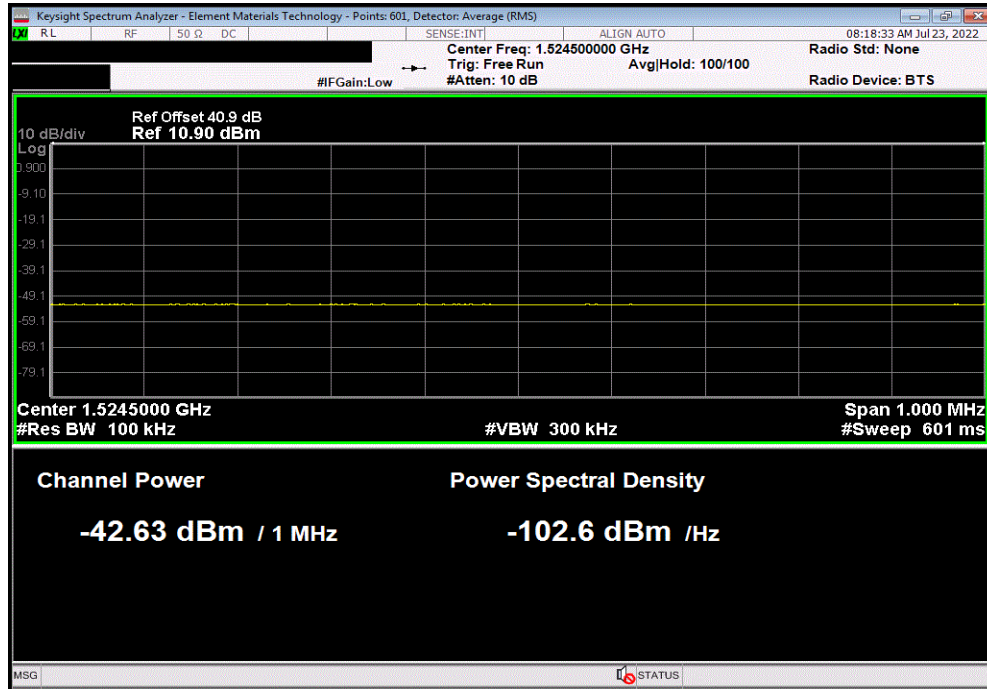


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

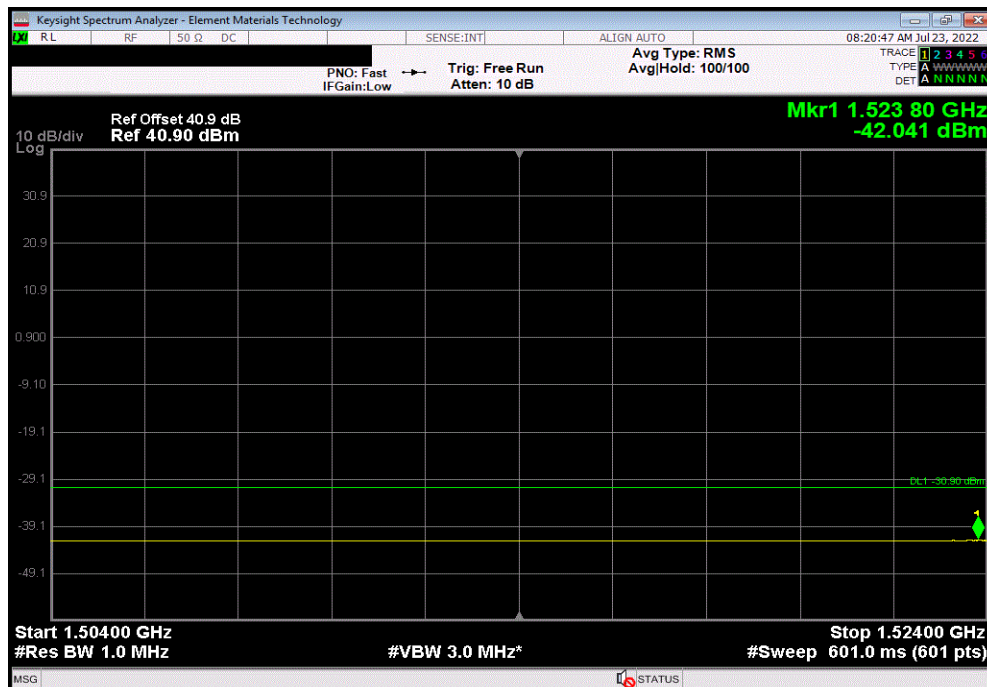


TbTtX 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-42.63	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-42.04	-30.9	Pass			

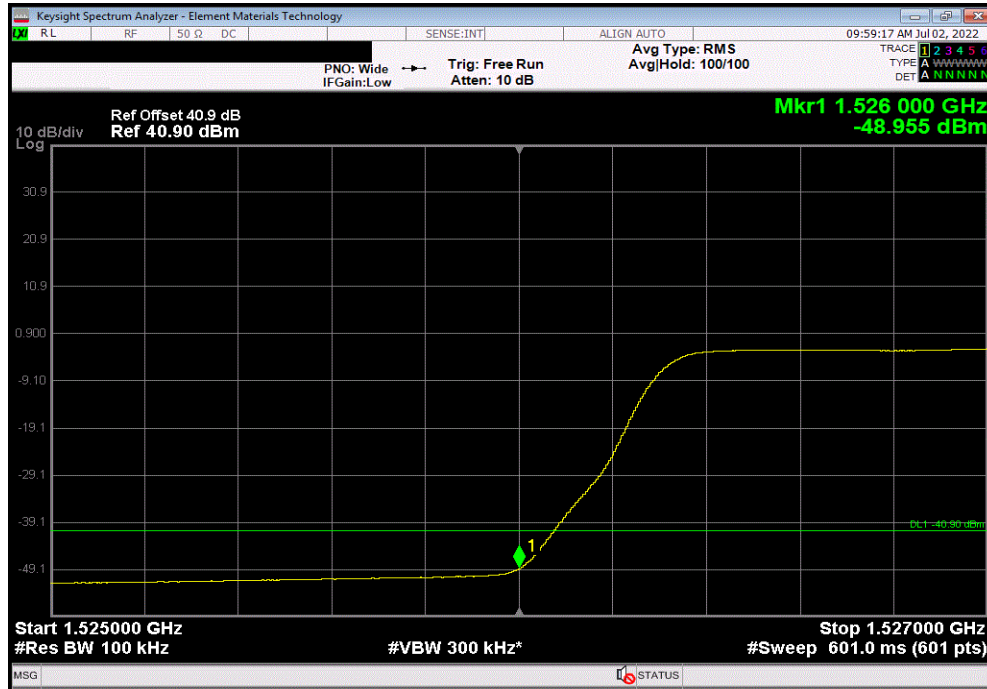


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

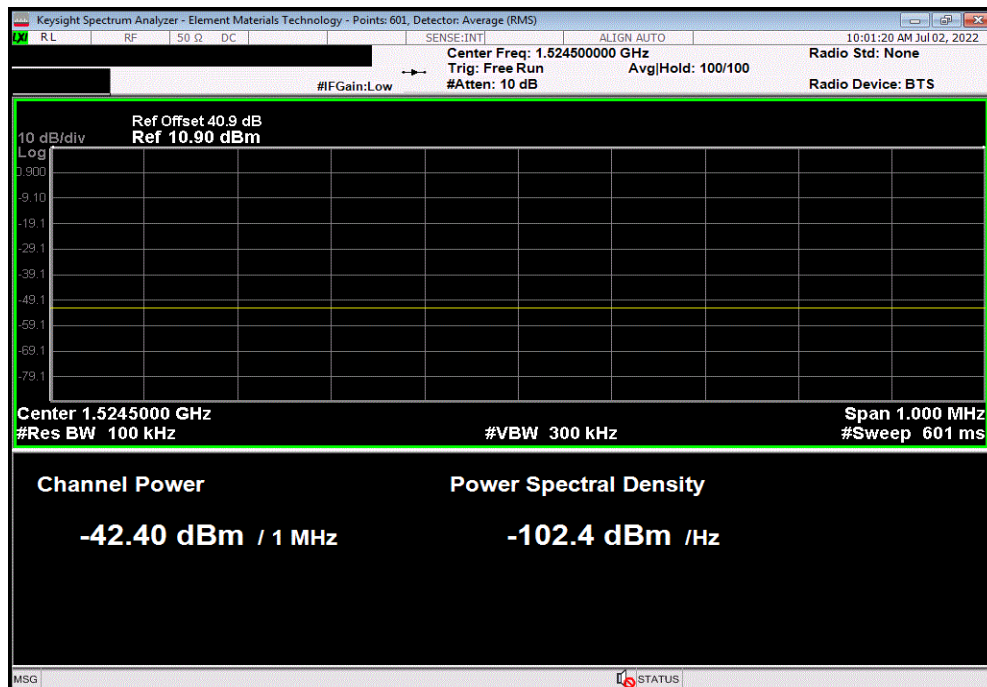


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-48.96		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.40		-30.9		Pass

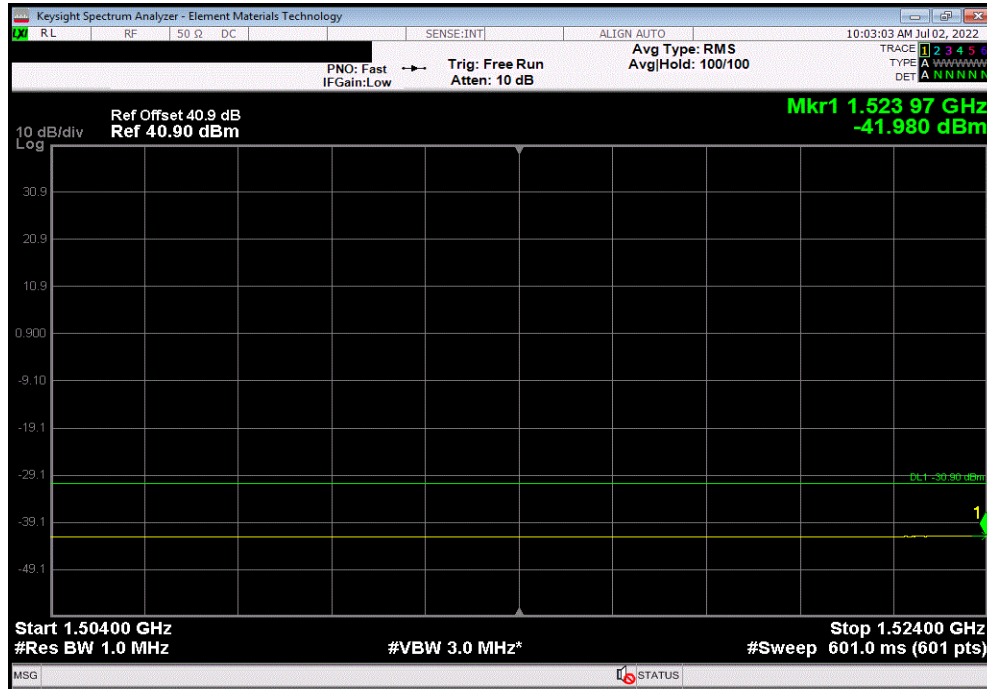


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

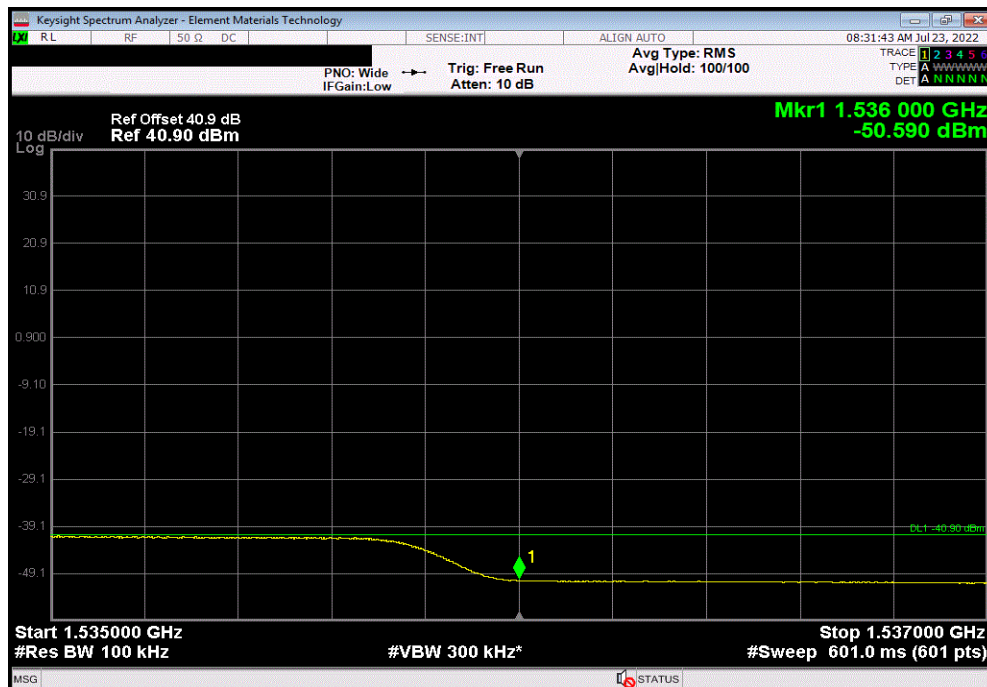


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.98		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.59		-40.9	Pass	

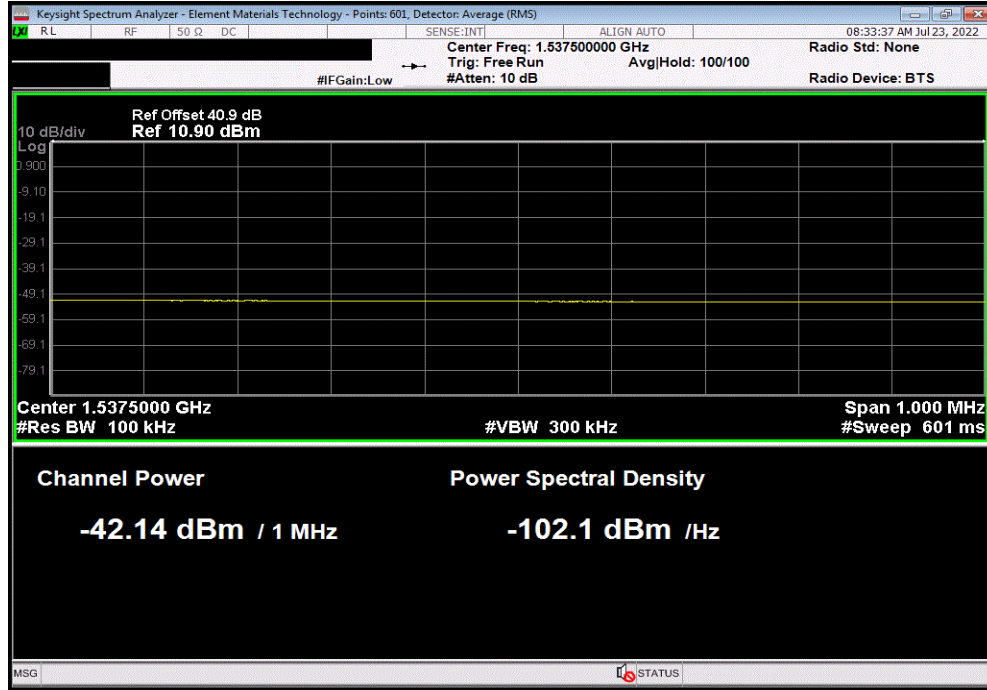


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

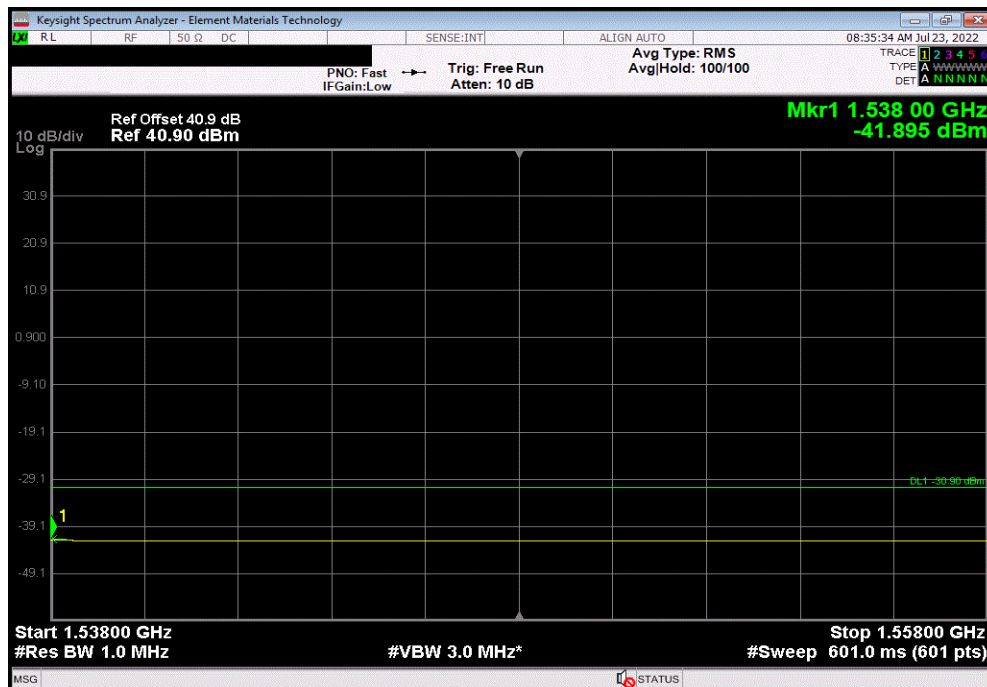


TbTtX 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-42.14		-30.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-41.90		-30.9		Pass

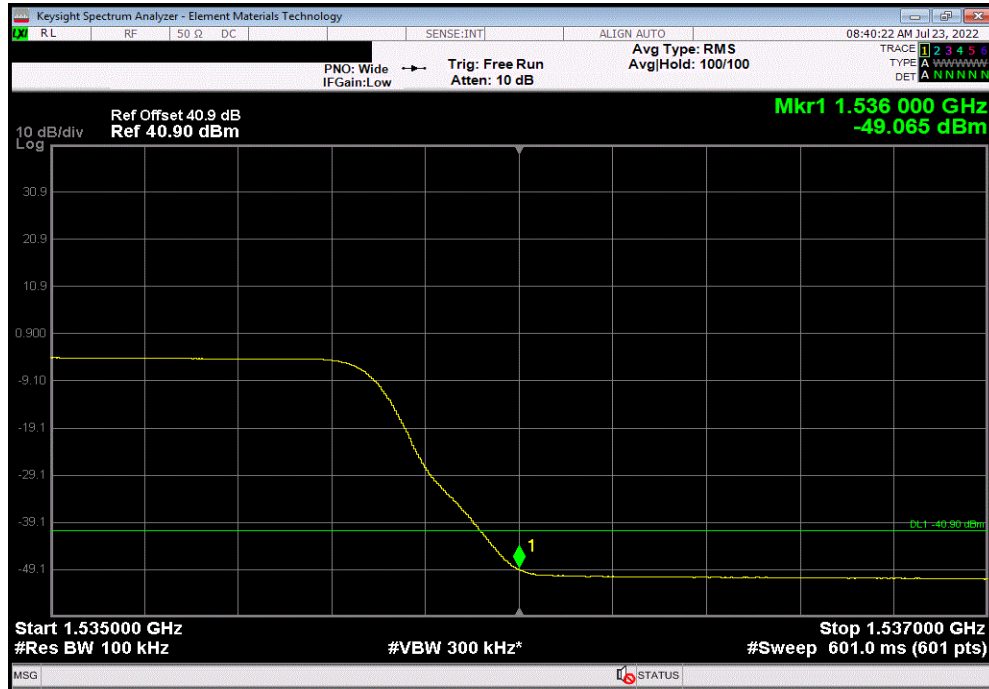


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dBi

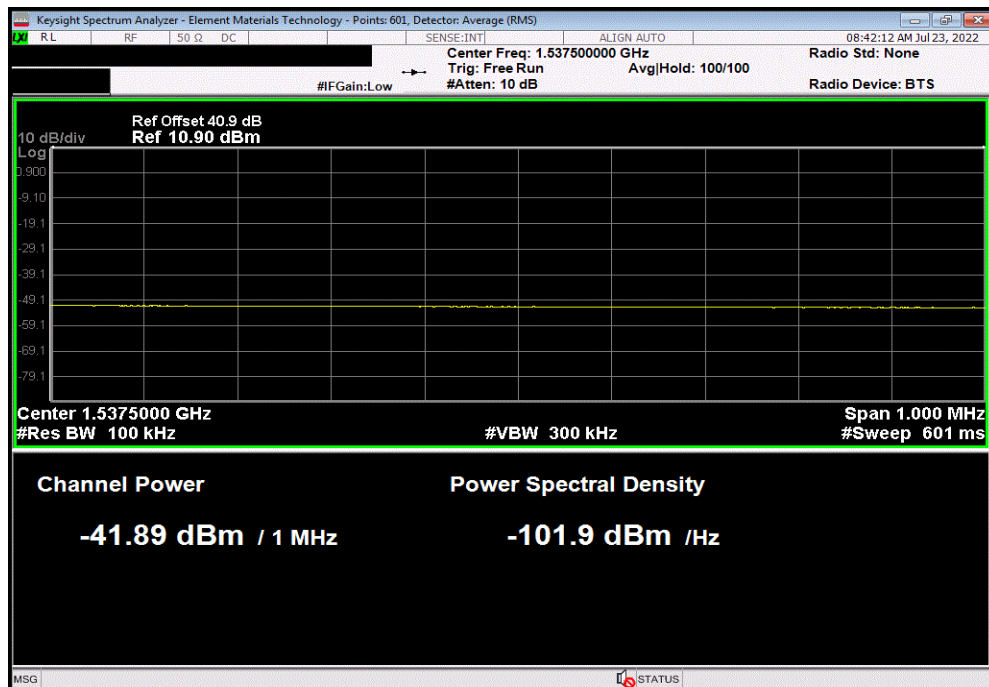


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-49.07		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-41.89		-30.9		Pass

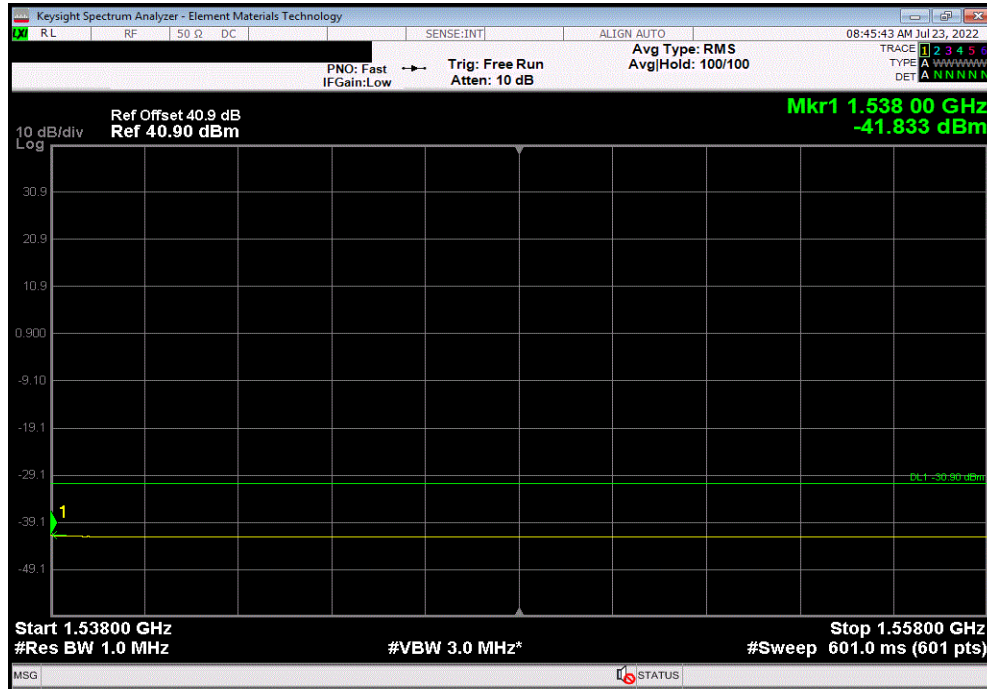


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB_i

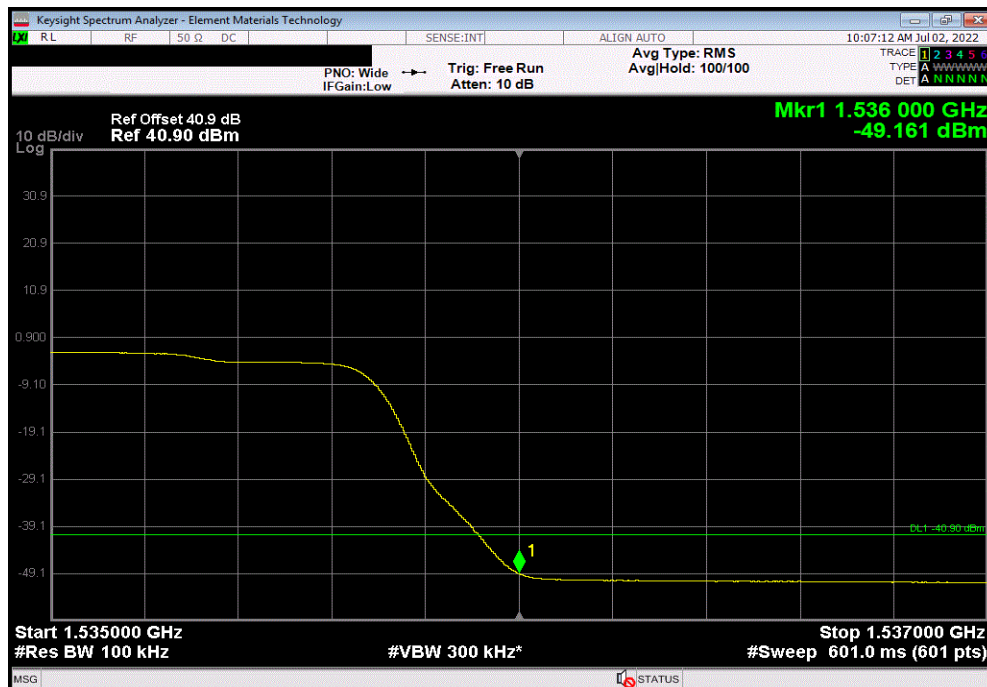


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.83		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-49.16		-40.9	Pass	

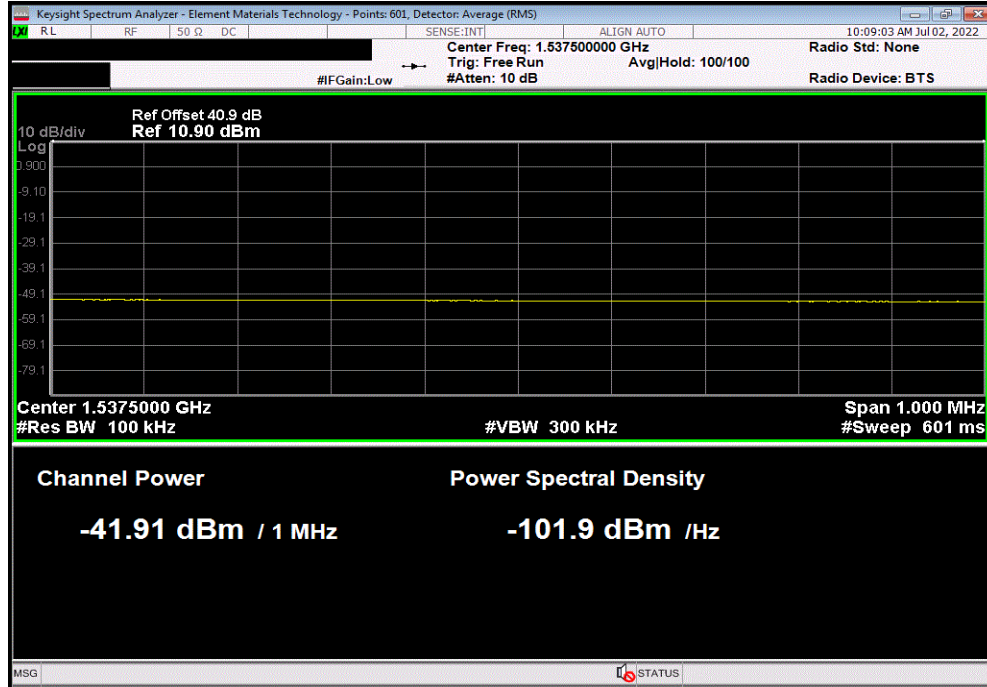


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

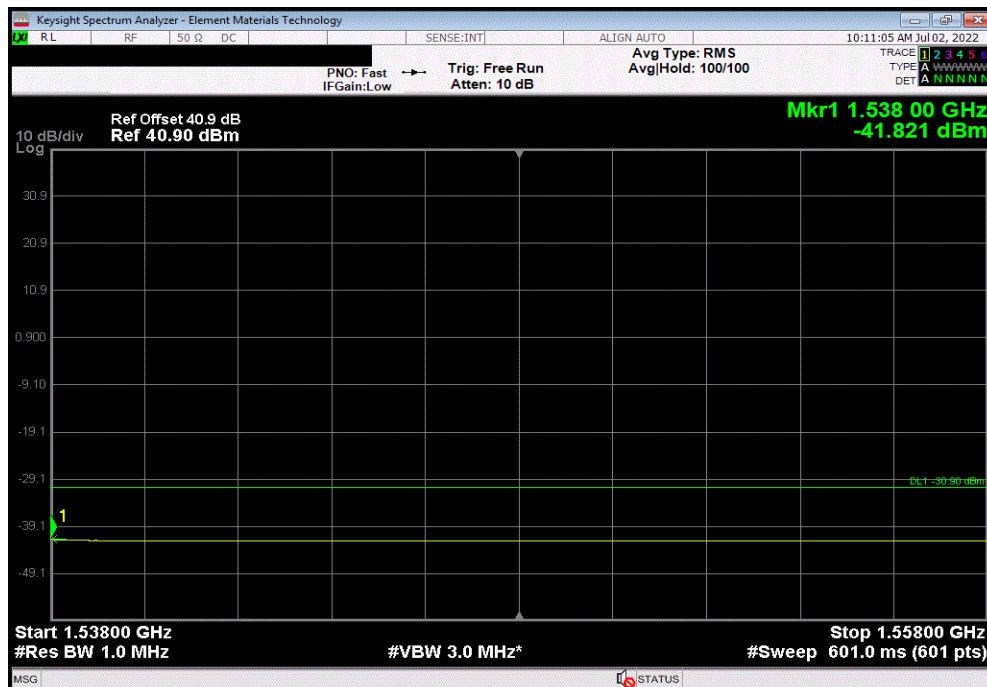


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-41.91	-30.9	Pass			



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 64-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-41.82	-30.9	Pass			

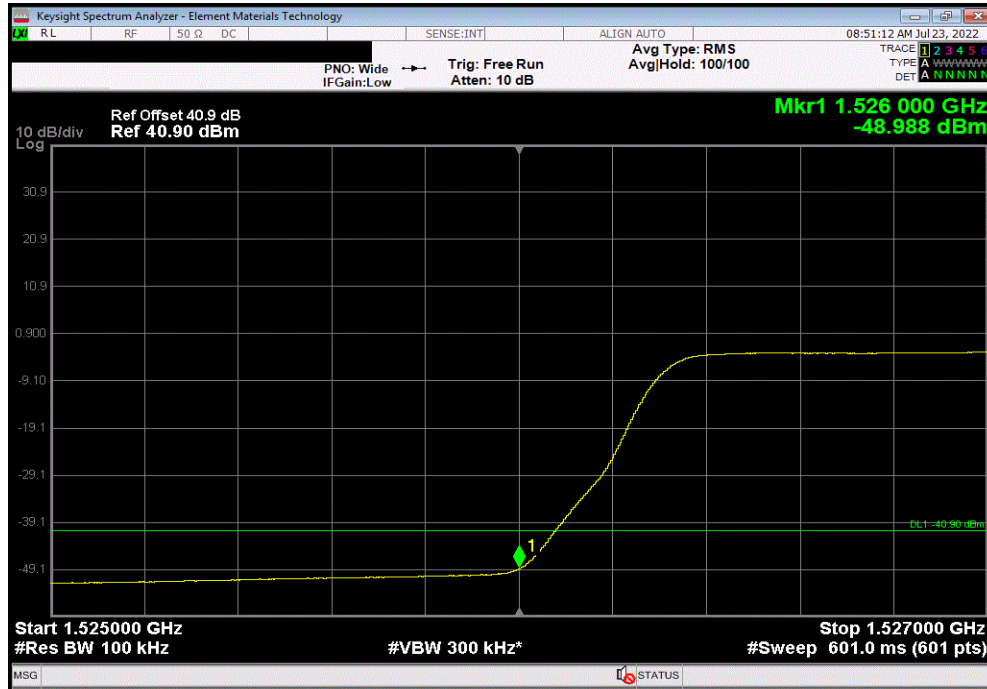


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

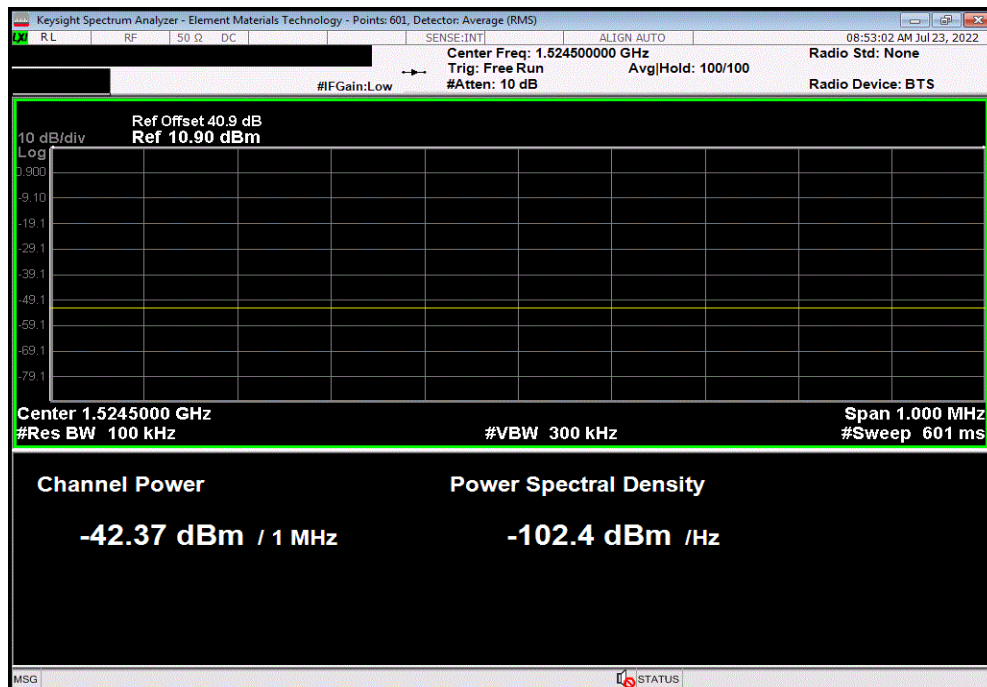


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-48.99	-40.9	Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-42.37	-30.9	Pass

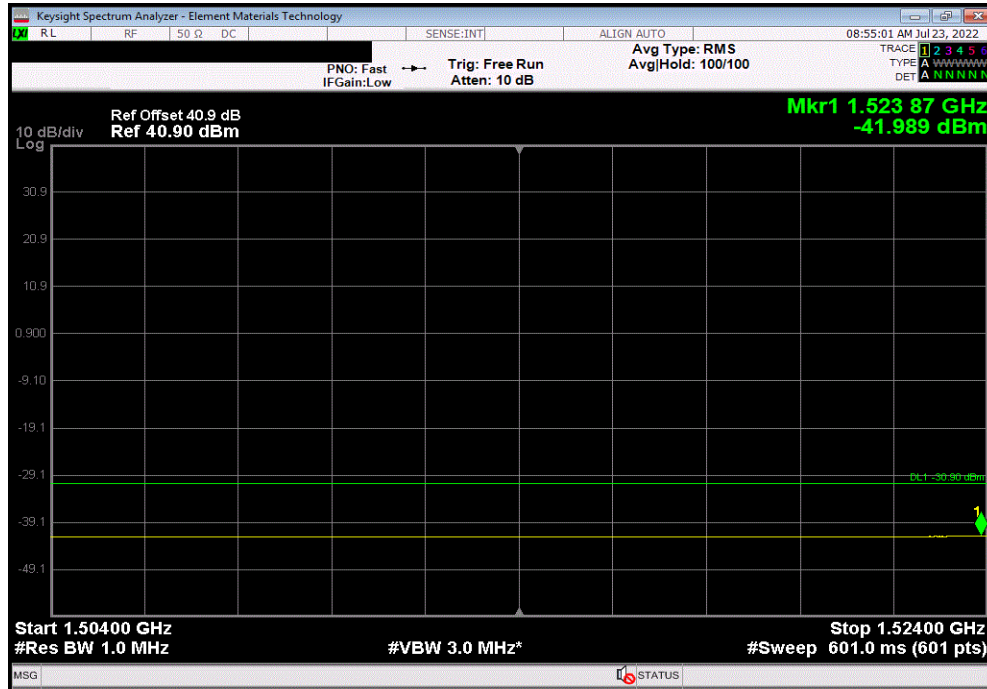


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

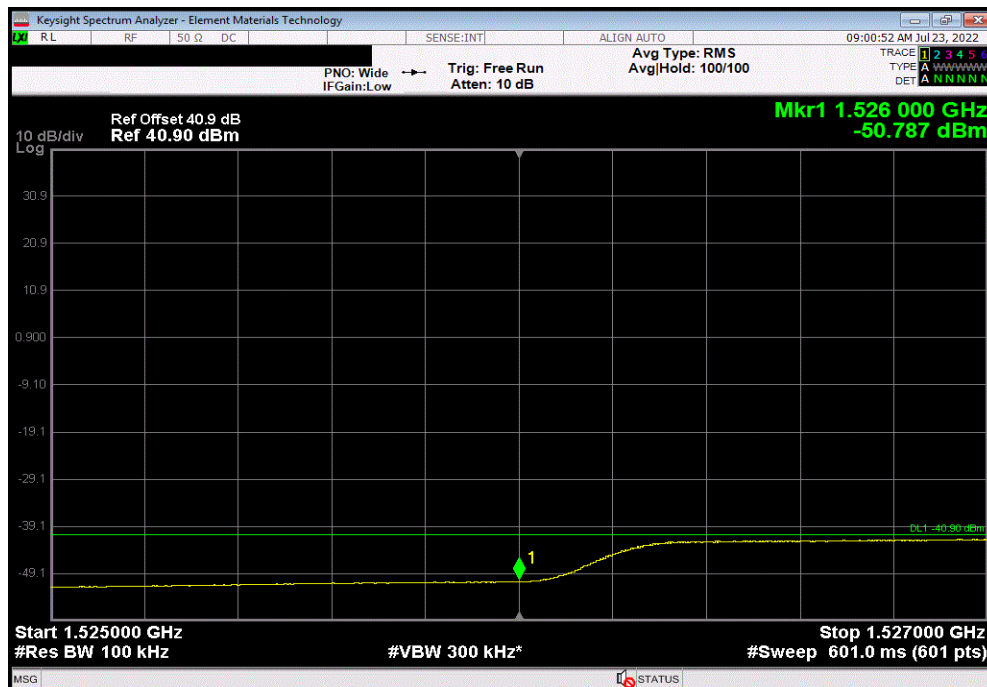


TbTtx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.99		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.79		-40.9	Pass	

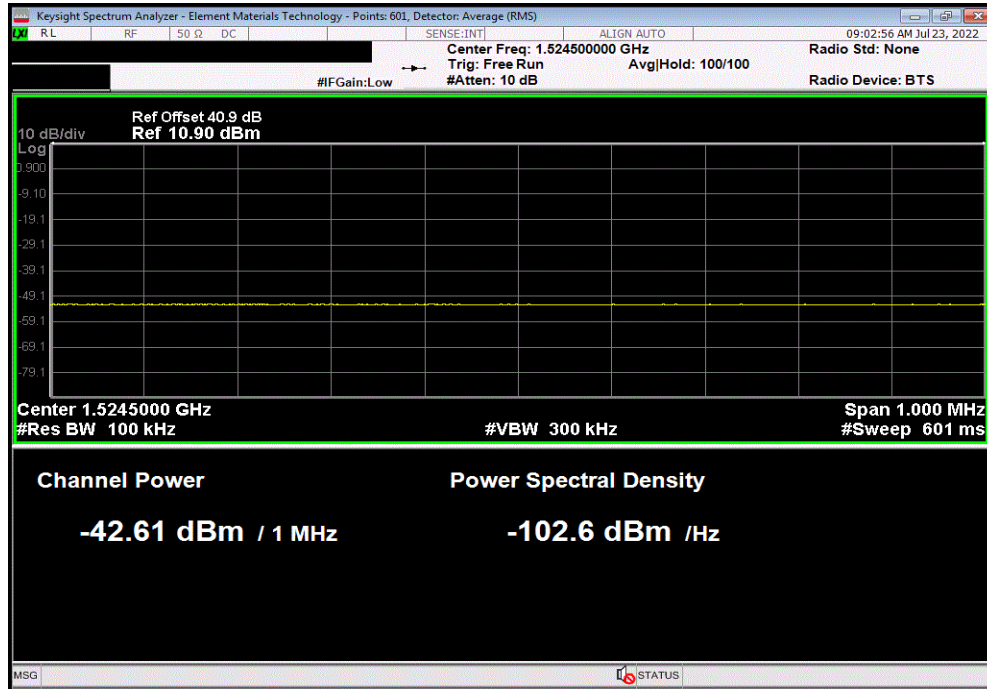


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

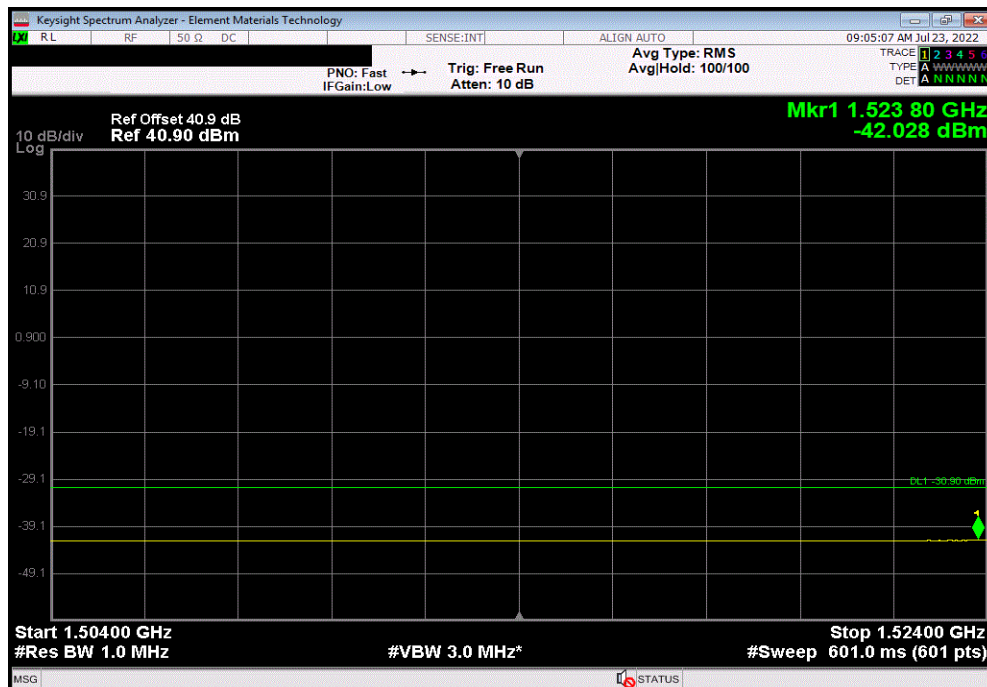


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
2		-42.61		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-42.03		-30.9	Pass	

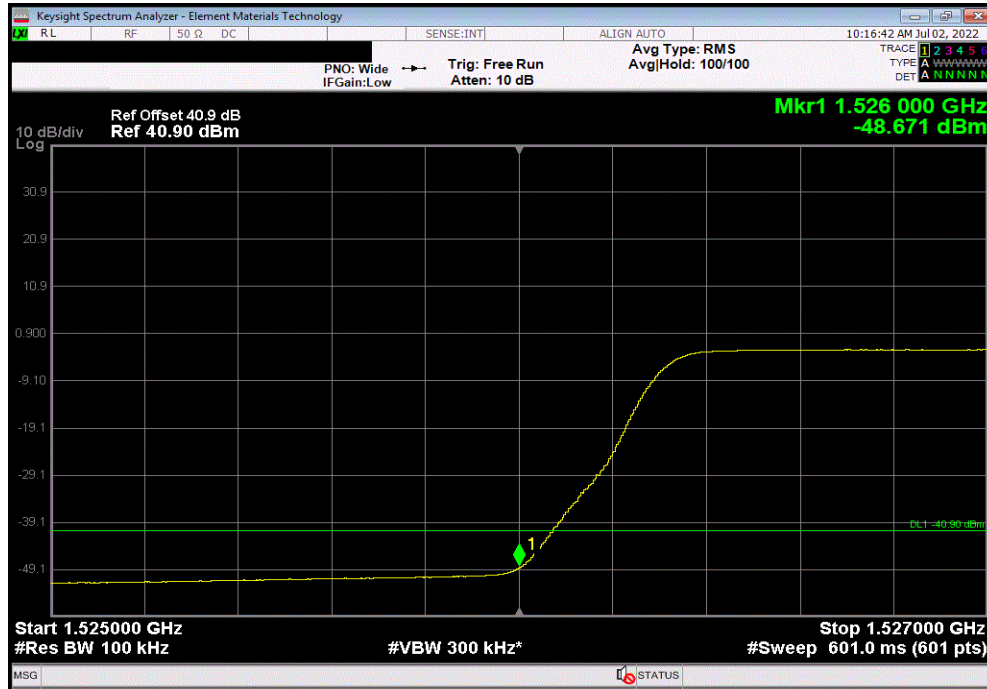


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

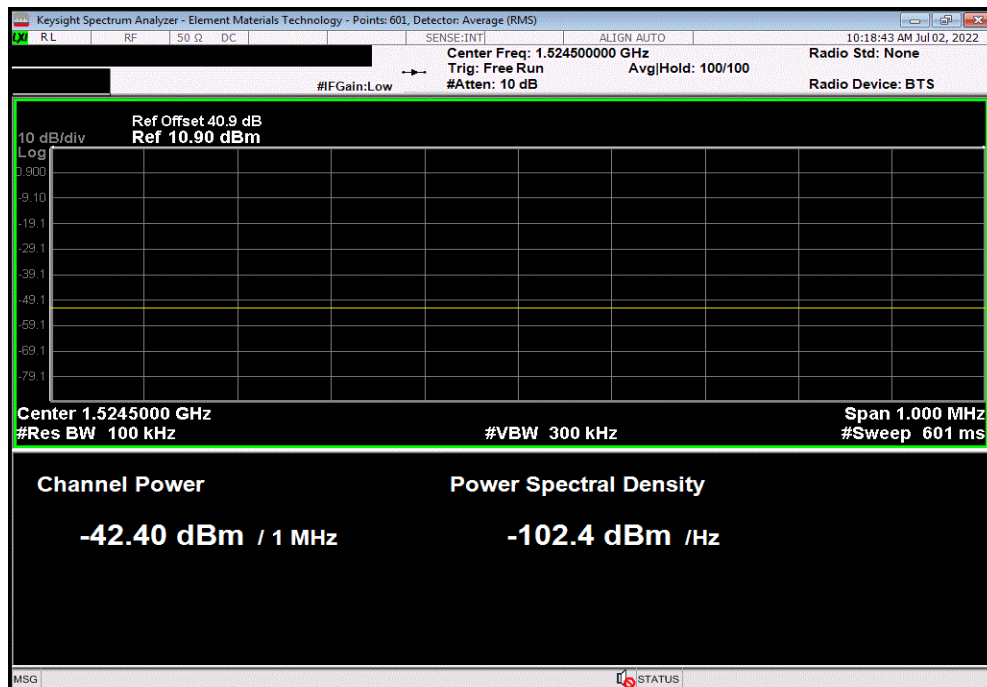


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-48.67	-40.9	Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-42.40	-30.9	Pass

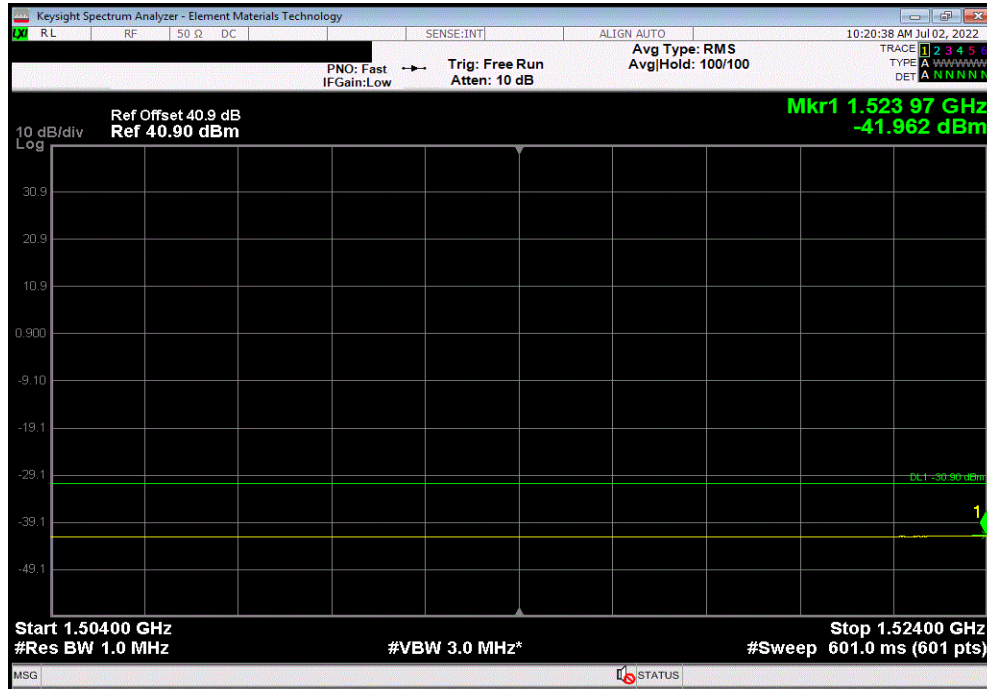


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

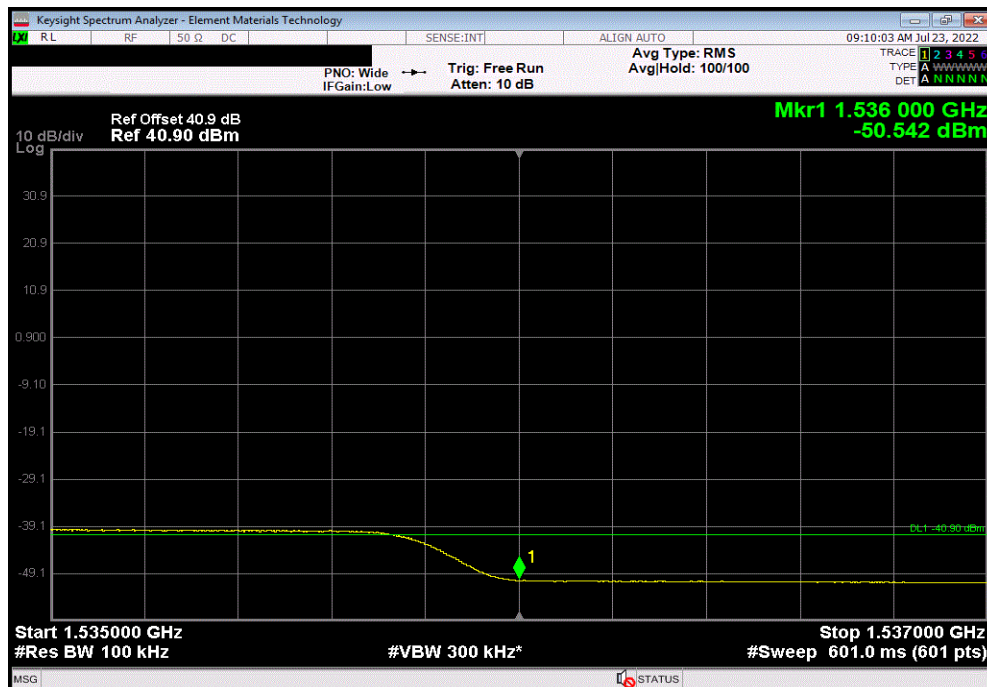


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.96		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-50.54		-40.9	Pass	

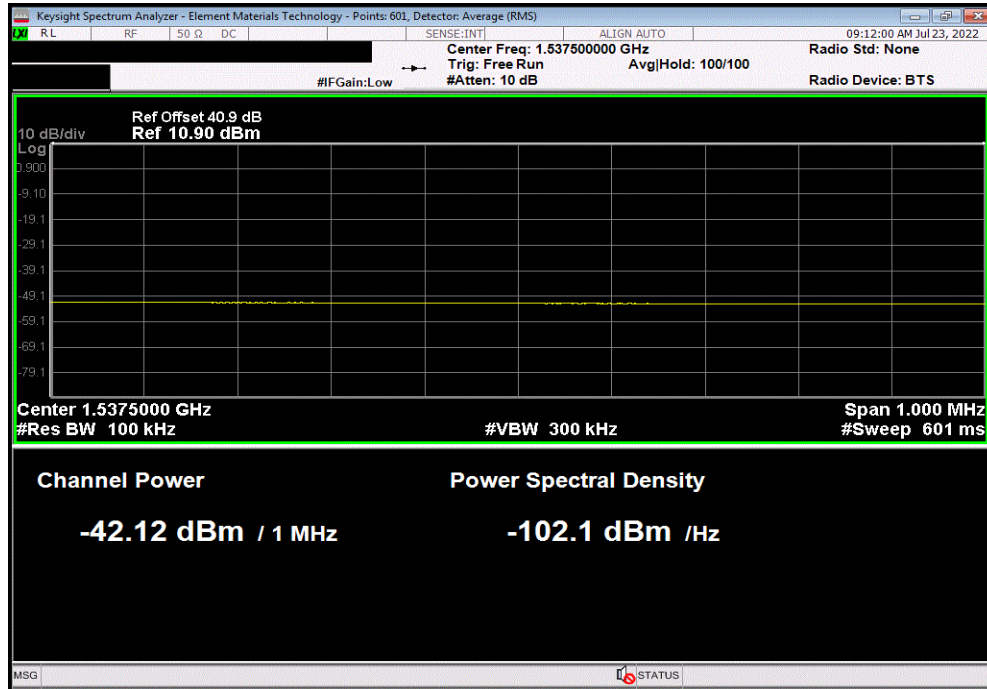


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

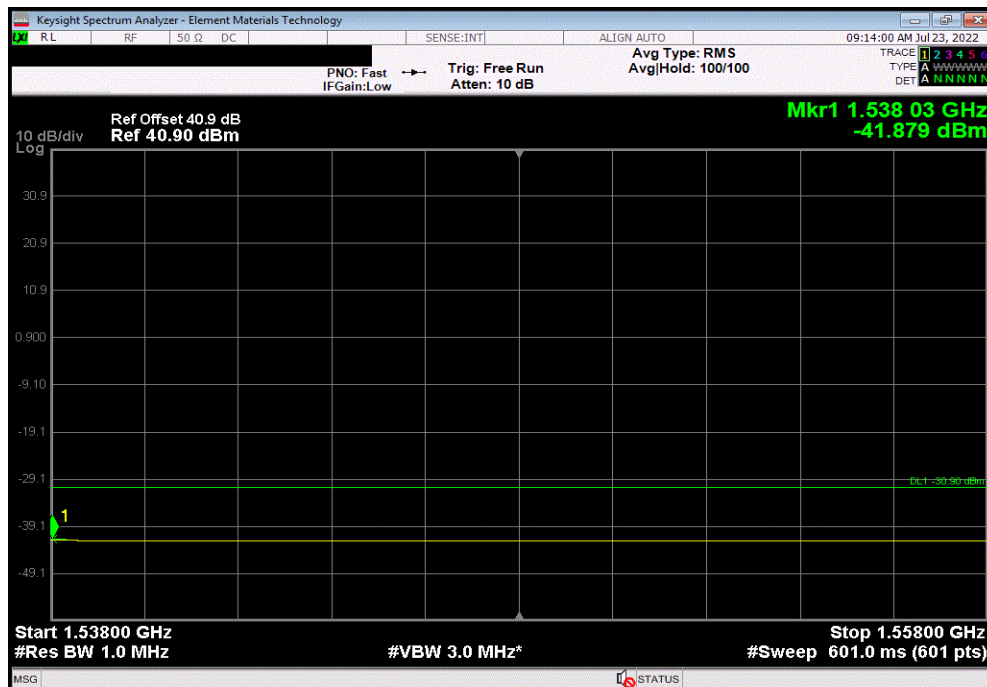


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
2		-42.12		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.88		-30.9	Pass	

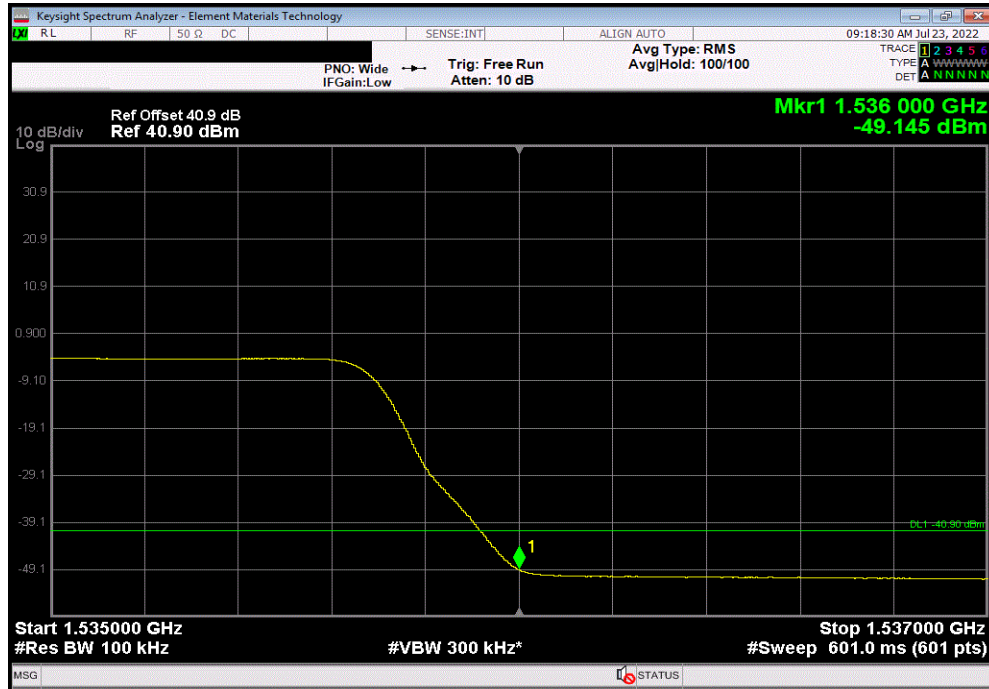


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

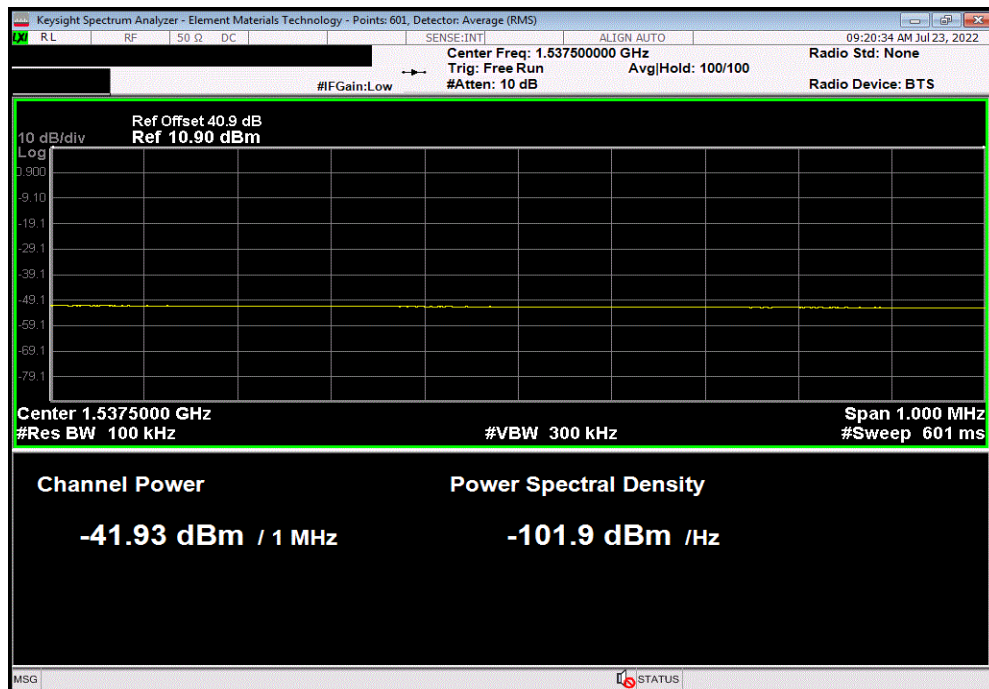


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-49.15		-40.9		Pass



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-41.93		-30.9		Pass

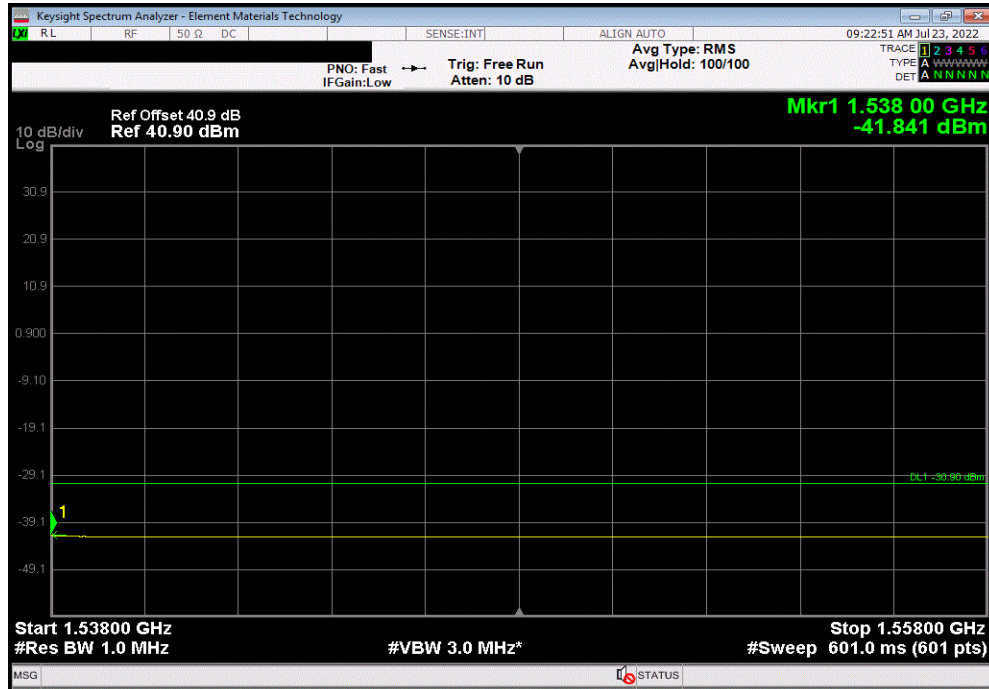


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*

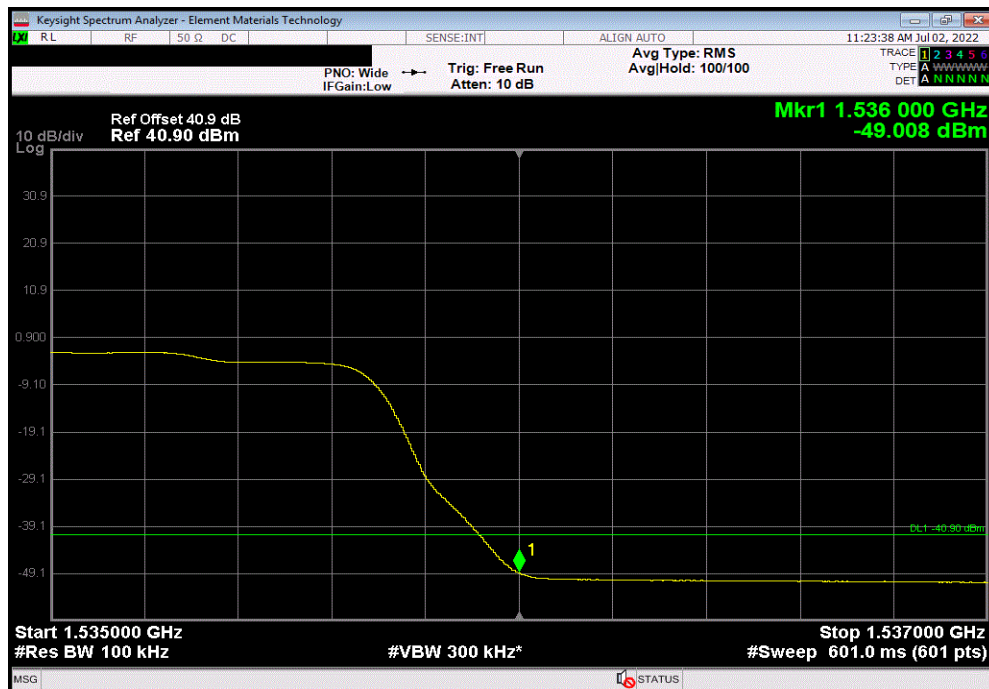


TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 25 RB/27 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.84		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
1		-49.01		-40.9	Pass	

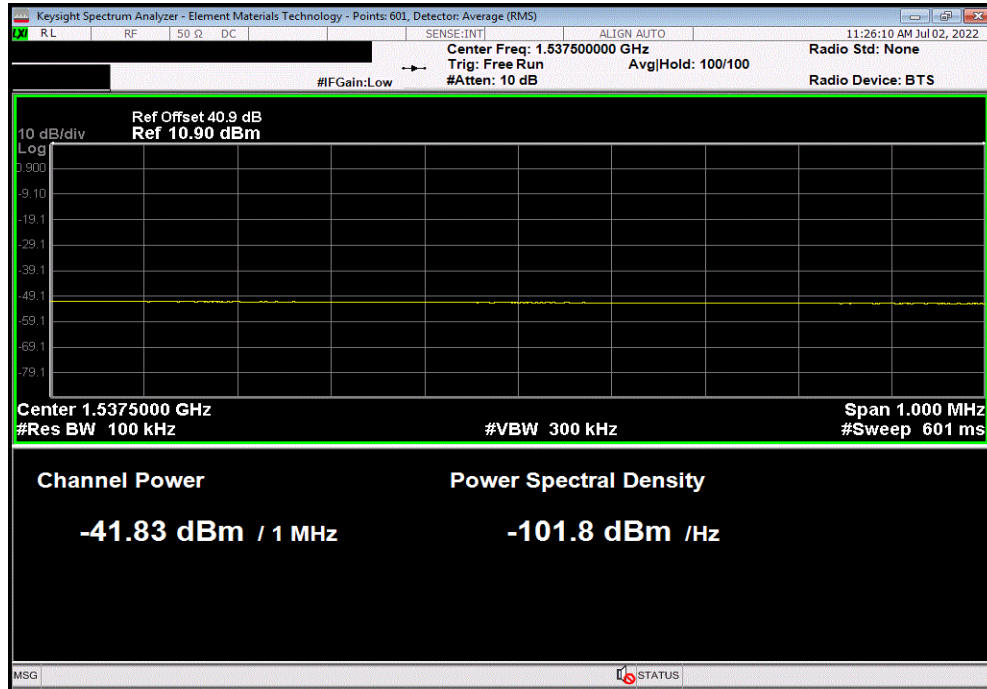


SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS BAND EDGE - 10MHz, 16dB*i*



TbTx 2022.05.02.0 XMt 2022.02.07.0

5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
2		-41.83		-30.9	Pass	



5G NR, Band n24, SCS 15kHz, 10 MHz Bandwidth, 256-QAM Modulation, High Side Channel 1531 MHz, 52 RB/0 Offset						
Frequency Range		Max Value (dBm)		Limit (dBm)	Result	
3		-41.80		-30.9	Pass	

