

BAND EDGE COMPLIANCE



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
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3379	AMT	2021-09-14	2022-09-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

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.

All limits were adjusted by a factor of $[-10 \cdot \log(4)]$ dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS 133 6.5.1 (i). the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i). emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

Per section FCC 27.53(h)(1), RSS-139 6.6 and RSS-170 5.4 & 5.4.1.2, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm for a 1 MHz measurement bandwidth. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter. The RBW to be used for these measurements are per 27.53(h)(3), RSS-139 6.6 and RSS-170 5.4. Compliance with this provision 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

RF conducted emissions testing was performed only on one port. All four AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

BAND EDGE COMPLIANCE



TuTu 2021.12.14.1 XMH 2022.02.07.0

EUT: AHFIL Remote Radio Head	Work Order: NOKI0037
Serial Number: YK214000036	Date: 28-Feb-22
Customer: Nokia Solutions and Networks	Temperature: 22.6 °C
Attendees: David Le, John Rattanavong	Humidity: 23.7% RH
Project: None	Barometric Pres.: 1026 mbar
Tested by: Mark Baytan	Power: 54 VDC
	Job Site: TX09

TEST SPECIFICATIONS		Test Method	
FCC 24E:2022		ANSI C63.26:2015	
RSS-133 Issue 6:2013+A1:2018		RSS-133 Issue 6:2013+A1:2018	

COMMENTS
 All measurement path losses accounted for in the reference level offset including any attenuators, filters, and DC blocks. Band 25 carriers enabled at maximum power is 80 watts/carrier. Some marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 Clause 5.7.2 for some test cases.

DEVIATIONS FROM TEST STANDARD
 None

Configuration #	2	Signature
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	Frequency Range	Max Value (dBm)	Limit (dBm)	Results	
Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier					
Port 1					
1.4 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1930.7 MHz	1	-21.5	-19	Pass
	Low Channel, 1930.7 MHz	2	-22.1	-19	Pass
	Low Channel, 1930.7 MHz	3	-22.2	-19	Pass
	High Channel, 1989.3 MHz	1	-23.6	-19	Pass
	High Channel, 1989.3 MHz	2	-22.0	-19	Pass
	High Channel, 1989.3 MHz	3	-21.9	-19	Pass
16-QAM Modulation					
	Low Channel, 1930.7 MHz	1	-21.7	-19	Pass
	Low Channel, 1930.7 MHz	2	-22.0	-19	Pass
	Low Channel, 1930.7 MHz	3	-22.0	-19	Pass
	High Channel, 1989.3 MHz	1	-24.0	-19	Pass
	High Channel, 1989.3 MHz	2	-21.9	-19	Pass
	High Channel, 1989.3 MHz	3	-21.4	-19	Pass
64-QAM Modulation					
	Low Channel, 1930.7 MHz	1	-20.8	-19	Pass
	Low Channel, 1930.7 MHz	2	-21.7	-19	Pass
	Low Channel, 1930.7 MHz	3	-22.2	-19	Pass
	High Channel, 1989.3 MHz	1	-23.4	-19	Pass
	High Channel, 1989.3 MHz	2	-22.1	-19	Pass
	High Channel, 1989.3 MHz	3	-22.3	-19	Pass
256-QAM Modulation					
	Low Channel, 1930.7 MHz	1	-21.2	-19	Pass
	Low Channel, 1930.7 MHz	2	-22.0	-19	Pass
	Low Channel, 1930.7 MHz	3	-22.2	-19	Pass
	High Channel, 1989.3 MHz	3	-23.5	-19	Pass
	High Channel, 1989.3 MHz	2	-21.7	-19	Pass
	High Channel, 1989.3 MHz	3	-21.9	-19	Pass
3 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1931.5 MHz	3	-23.1	-19	Pass
	Low Channel, 1931.5 MHz	2	-19.3	-19	Pass
	Low Channel, 1931.5 MHz	3	-19.8	-19	Pass
	High Channel, 1988.5 MHz	1	-21.8	-19	Pass
	High Channel, 1988.5 MHz	2	-22.3	-19	Pass
	High Channel, 1988.5 MHz	3	-22.3	-19	Pass
16-QAM Modulation					
	Low Channel, 1931.5 MHz	1	-22.3	-19	Pass
	Low Channel, 1931.5 MHz	2	-19.6	-19	Pass
	Low Channel, 1931.5 MHz	3	-19.7	-19	Pass
	High Channel, 1988.5 MHz	1	-21.4	-19	Pass
	High Channel, 1988.5 MHz	2	-22.0	-19	Pass
	High Channel, 1988.5 MHz	2	-22.1	-19	Pass
64-QAM Modulation					
	Low Channel, 1931.5 MHz	1	-22.6	-19	Pass
	Low Channel, 1931.5 MHz	2	-19.7	-19	Pass
	Low Channel, 1931.5 MHz	3	-19.7	-19	Pass
	High Channel, 1988.5 MHz	1	-21.6	-19	Pass
	High Channel, 1988.5 MHz	2	-22.1	-19	Pass
	High Channel, 1988.5 MHz	3	-21.9	-19	Pass
256-QAM Modulation					
	Low Channel, 1931.5 MHz	1	-22.3	-19	Pass
	Low Channel, 1931.5 MHz	2	-19.9	-19	Pass
	Low Channel, 1931.5 MHz	3	-20.1	-19	Pass
	High Channel, 1988.5 MHz	1	-21.0	-19	Pass
	High Channel, 1988.5 MHz	2	-22.5	-19	Pass
	High Channel, 1988.5 MHz	3	-22.3	-19	Pass
5 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1932.5 MHz	1	-23.1	-19	Pass
	Low Channel, 1932.5 MHz	2	-20.9	-19	Pass
	Low Channel, 1932.5 MHz	3	-20.1	-19	Pass
	High Channel, 1992.5 MHz	1	-21.9	-19	Pass
	High Channel, 1992.5 MHz	2	-22.9	-19	Pass
	High Channel, 1992.5 MHz	3	-22.9	-19	Pass
16-QAM Modulation					
	Low Channel, 1932.5 MHz	1	-23.2	-19	Pass
	Low Channel, 1932.5 MHz	2	-21.1	-19	Pass
	Low Channel, 1932.5 MHz	3	-19.7	-19	Pass
	High Channel, 1992.5 MHz	1	-22.5	-19	Pass
	High Channel, 1992.5 MHz	2	-23.3	-19	Pass
	High Channel, 1992.5 MHz	3	-22.6	-19	Pass
64-QAM Modulation					
	Low Channel, 1932.5 MHz	1	-23.5	-19	Pass
	Low Channel, 1932.5 MHz	2	-21.5	-19	Pass
	Low Channel, 1932.5 MHz	3	-19.9	-19	Pass
	High Channel, 1992.5 MHz	1	-22.5	-19	Pass

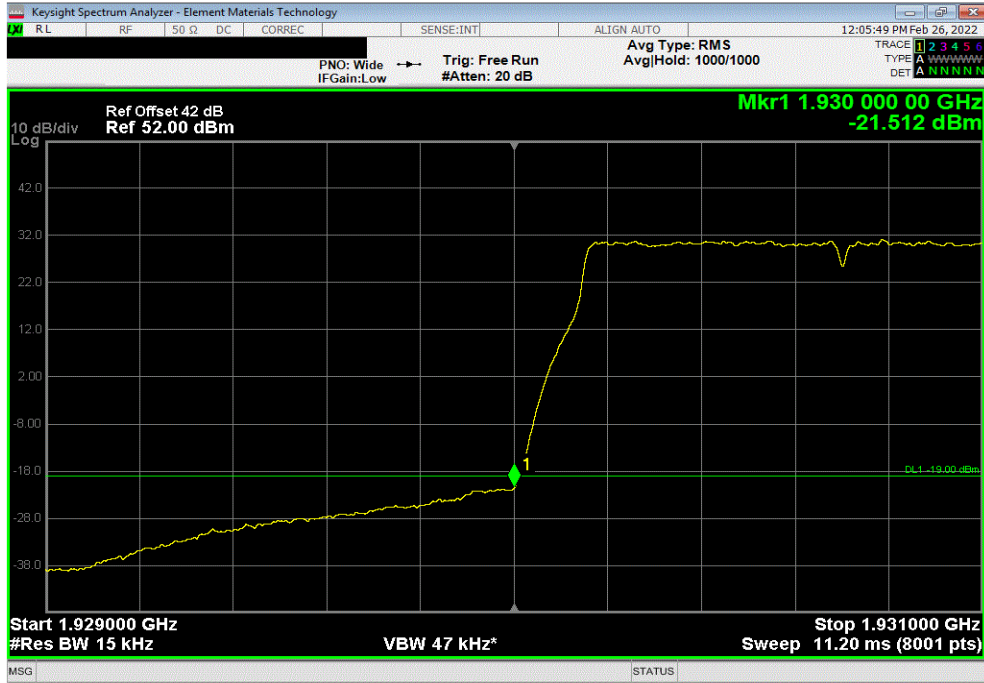
	High Channel, 1992.5 MHz	2	-23.1	-19	Pass
	High Channel, 1992.5 MHz	3	-22.4	-19	Pass
256-QAM Modulation					
	Low Channel, 1932.5 MHz	1	-23.2	-19	Pass
	Low Channel, 1932.5 MHz	2	-21.1	-19	Pass
	Low Channel, 1932.5 MHz	3	-19.7	-19	Pass
	High Channel, 1992.5 MHz	1	-21.8	-19	Pass
	High Channel, 1992.5 MHz	2	-23.1	-19	Pass
	High Channel, 1992.5 MHz	3	-22.8	-19	Pass
10 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1935 MHz	1	-23.9	-19	Pass
	Low Channel, 1935 MHz	2	-19.9	-19	Pass
	Low Channel, 1935 MHz	3	-19.9	-19	Pass
	High Channel, 1990 MHz	1	-23.0	-19	Pass
	High Channel, 1990 MHz	2	-21.0	-19	Pass
	High Channel, 1990 MHz	3	-21.5	-19	Pass
16-QAM Modulation					
	Low Channel, 1935 MHz	1	-23.5	-19	Pass
	Low Channel, 1935 MHz	2	-20.2	-19	Pass
	Low Channel, 1935 MHz	3	-20.4	-19	Pass
	High Channel, 1990 MHz	1	-23.1	-19	Pass
	High Channel, 1990 MHz	2	-21.0	-19	Pass
	High Channel, 1990 MHz	3	-21.1	-19	Pass
64-QAM Modulation					
	Low Channel, 1935 MHz	1	-23.1	-19	Pass
	Low Channel, 1935 MHz	2	-19.7	-19	Pass
	Low Channel, 1935 MHz	3	-19.8	-19	Pass
	High Channel, 1990 MHz	1	-22.7	-19	Pass
	High Channel, 1990 MHz	2	-21.3	-19	Pass
	High Channel, 1990 MHz	3	-21.5	-19	Pass
256-QAM Modulation					
	Low Channel, 1935 MHz	1	-23.3	-19	Pass
	Low Channel, 1935 MHz	2	-19.7	-19	Pass
	Low Channel, 1935 MHz	3	-20.0	-19	Pass
	High Channel, 1990 MHz	1	-22.9	-19	Pass
	High Channel, 1990 MHz	2	-21.1	-19	Pass
	High Channel, 1990 MHz	3	-21.1	-19	Pass
15 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1937.5 MHz	1	-20.6	-19	Pass
	Low Channel, 1937.5 MHz	2	-20.0	-19	Pass
	Low Channel, 1937.5 MHz	3	-19.7	-19	Pass
	High Channel, 1987.5 MHz	1	-20.2	-19	Pass
	High Channel, 1987.5 MHz	2	-20.3	-19	Pass
	High Channel, 1987.5 MHz	3	-19.9	-19	Pass
16-QAM Modulation					
	Low Channel, 1937.5 MHz	1	-20.6	-19	Pass
	Low Channel, 1937.5 MHz	2	-20.0	-19	Pass
	Low Channel, 1937.5 MHz	3	-19.6	-19	Pass
	High Channel, 1987.5 MHz	1	-20.8	-19	Pass
	High Channel, 1987.5 MHz	2	-20.5	-19	Pass
	High Channel, 1987.5 MHz	3	-20.4	-19	Pass
64-QAM Modulation					
	Low Channel, 1937.5 MHz	1	-20.6	-19	Pass
	Low Channel, 1937.5 MHz	2	-19.9	-19	Pass
	Low Channel, 1937.5 MHz	3	-20.0	-19	Pass
	High Channel, 1987.5 MHz	1	-20.0	-19	Pass
	High Channel, 1987.5 MHz	2	-20.2	-19	Pass
	High Channel, 1987.5 MHz	3	-19.9	-19	Pass
256-QAM Modulation					
	Low Channel, 1937.5 MHz	1	-20.8	-19	Pass
	Low Channel, 1937.5 MHz	2	-19.9	-19	Pass
	Low Channel, 1937.5 MHz	3	-19.8	-19	Pass
	High Channel, 1987.5 MHz	1	-19.9	-19	Pass
	High Channel, 1987.5 MHz	2	-19.8	-19	Pass
	High Channel, 1987.5 MHz	3	-19.7	-19	Pass
20 MHz Bandwidth					
QPSK Modulation					
	Low Channel, 1940 MHz	1	-21.7	-19	Pass
	Low Channel, 1940 MHz	2	-20.1	-19	Pass
	Low Channel, 1940 MHz	3	-20.0	-19	Pass
	High Channel, 1985 MHz	1	-21.6	-19	Pass
	High Channel, 1985 MHz	2	-19.5	-19	Pass
	High Channel, 1985 MHz	3	-19.6	-19	Pass
16-QAM Modulation					
	Low Channel, 1940 MHz	1	-21.5	-19	Pass
	Low Channel, 1940 MHz	2	-19.9	-19	Pass
	Low Channel, 1940 MHz	3	-19.8	-19	Pass
	High Channel, 1985 MHz	1	-21.9	-19	Pass
	High Channel, 1985 MHz	2	-19.5	-19	Pass
	High Channel, 1985 MHz	3	-19.6	-19	Pass
64-QAM Modulation					
	Low Channel, 1940 MHz	1	-22.3	-19	Pass
	Low Channel, 1940 MHz	2	-20.4	-19	Pass
	Low Channel, 1940 MHz	3	-20.1	-19	Pass
	High Channel, 1985 MHz	1	-21.2	-19	Pass
	High Channel, 1985 MHz	2	-19.5	-19	Pass
	High Channel, 1985 MHz	3	-19.5	-19	Pass
256-QAM Modulation					
	Low Channel, 1940 MHz	1	-21.9	-19	Pass
	Low Channel, 1940 MHz	2	-20.2	-19	Pass
	Low Channel, 1940 MHz	3	-20.2	-19	Pass
	High Channel, 1985 MHz	1	-21.4	-19	Pass
	High Channel, 1985 MHz	2	-19.4	-19	Pass
	High Channel, 1985 MHz	3	-19.4	-19	Pass

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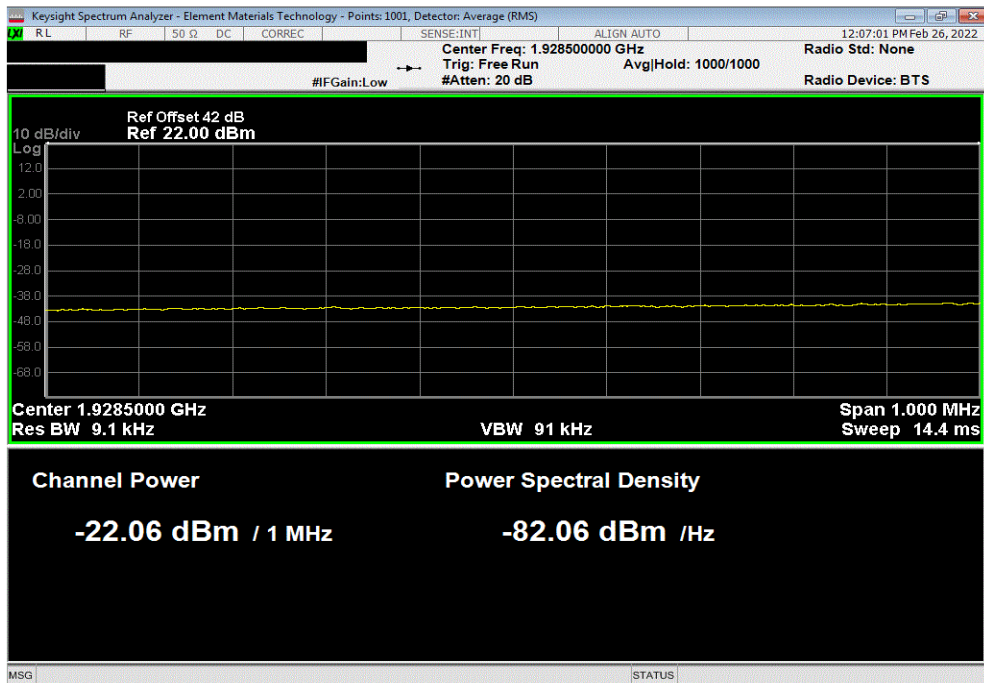


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.5	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.1	-19	Pass			

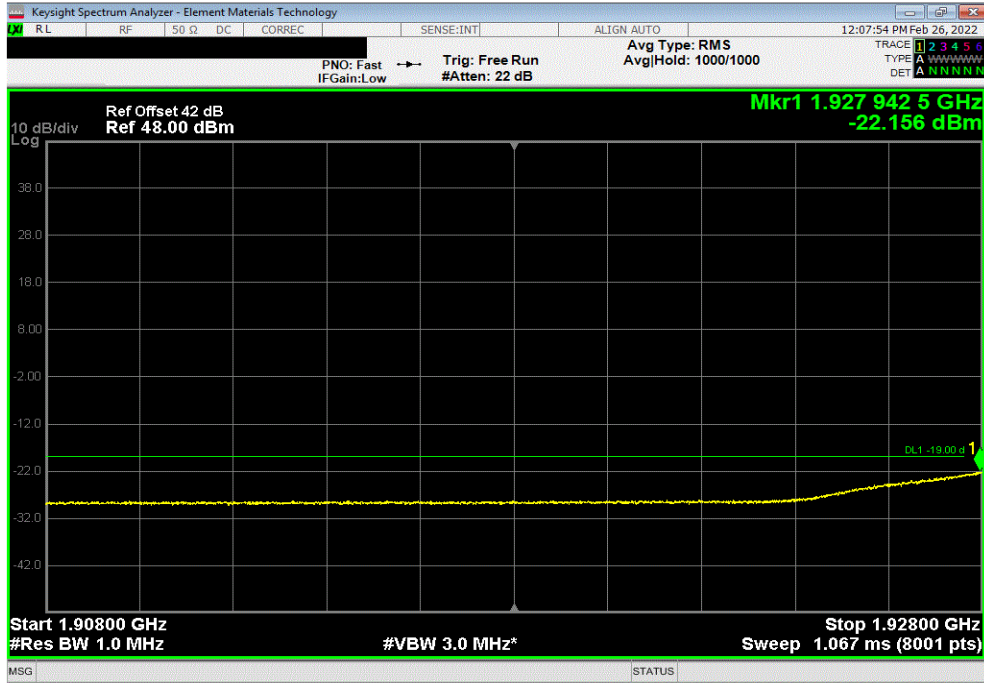


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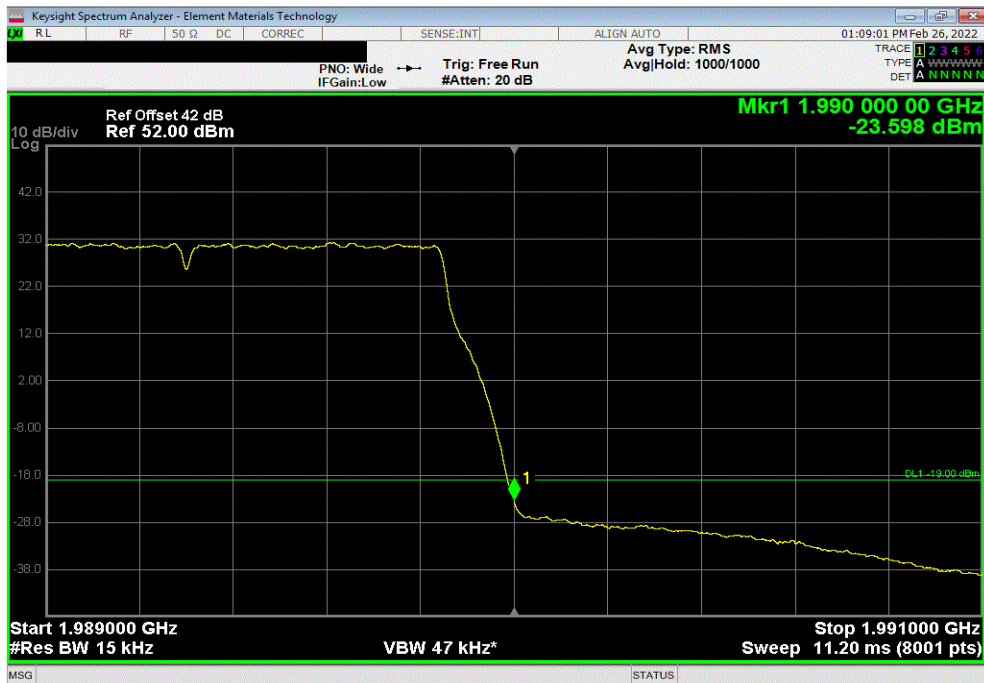


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.6	-19	Pass			

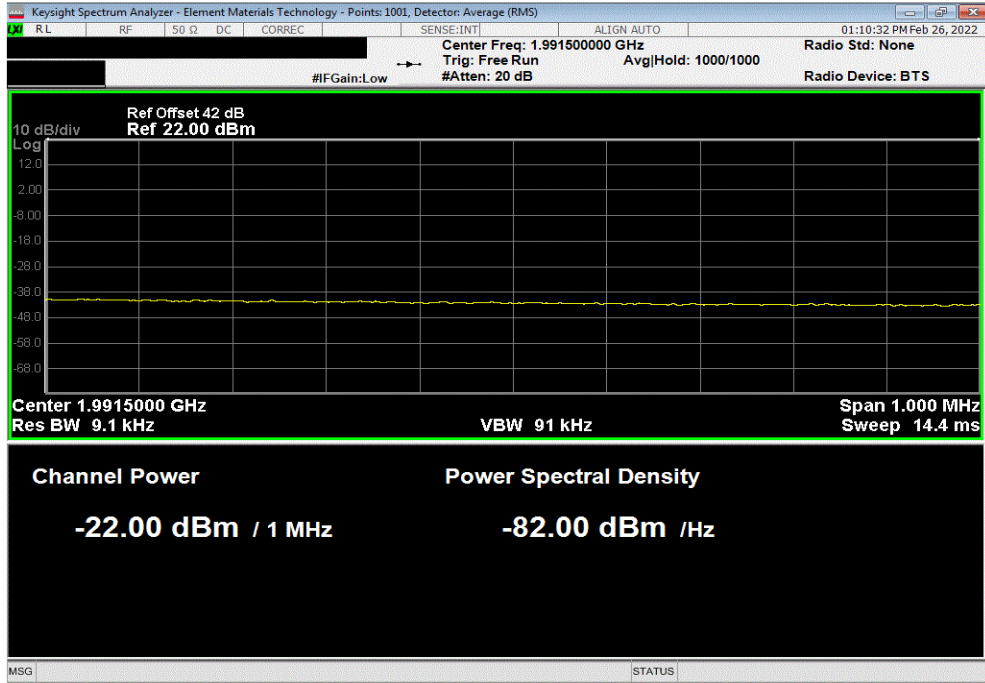


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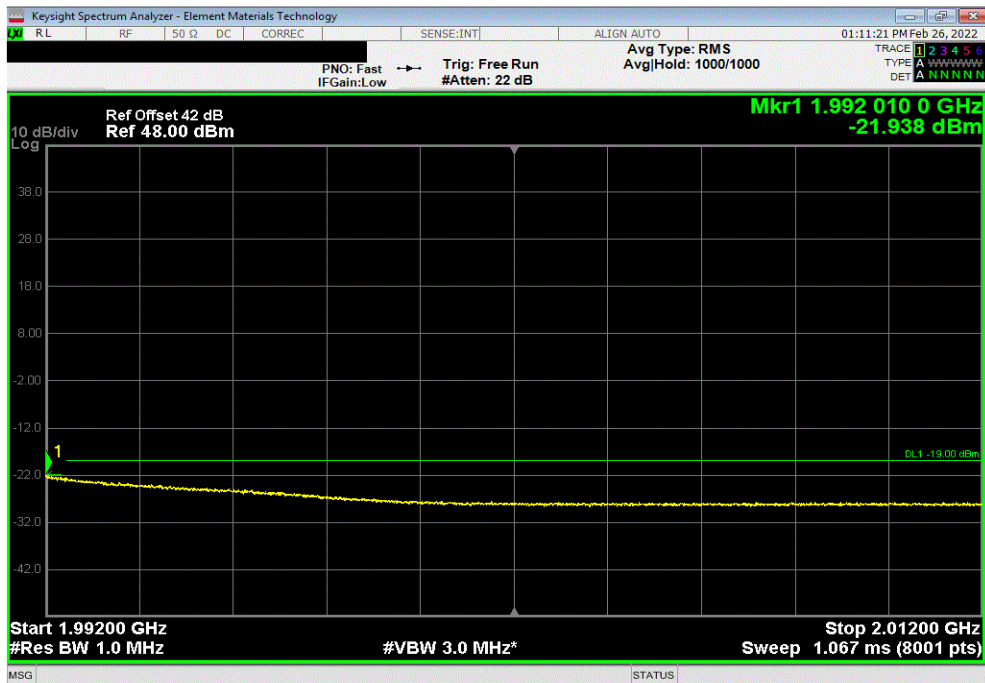


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.0	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, QPSK Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.9	-19	Pass			

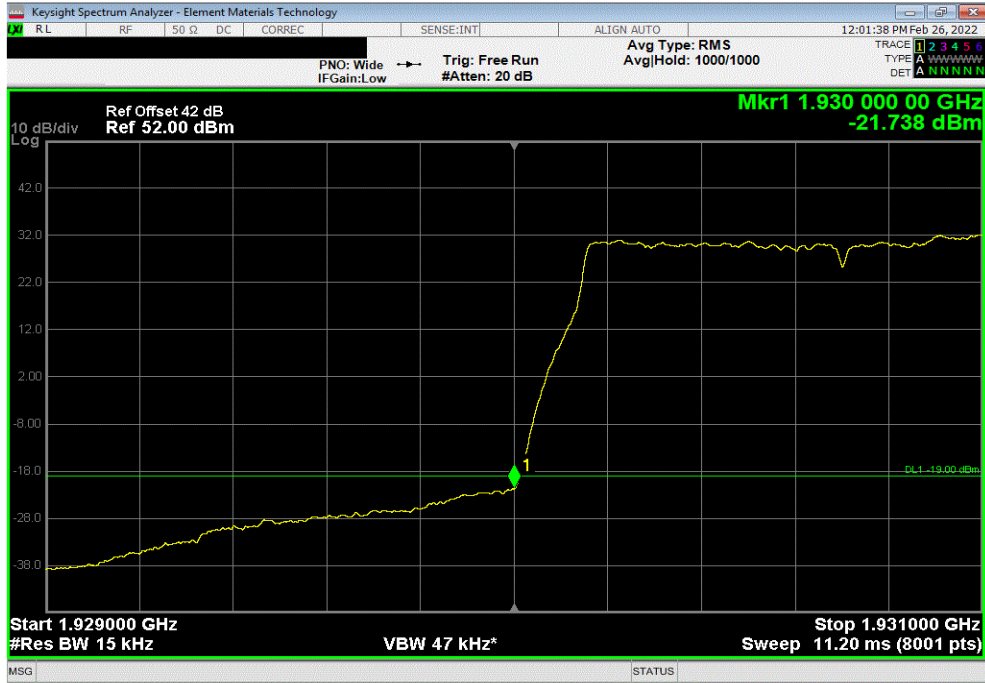


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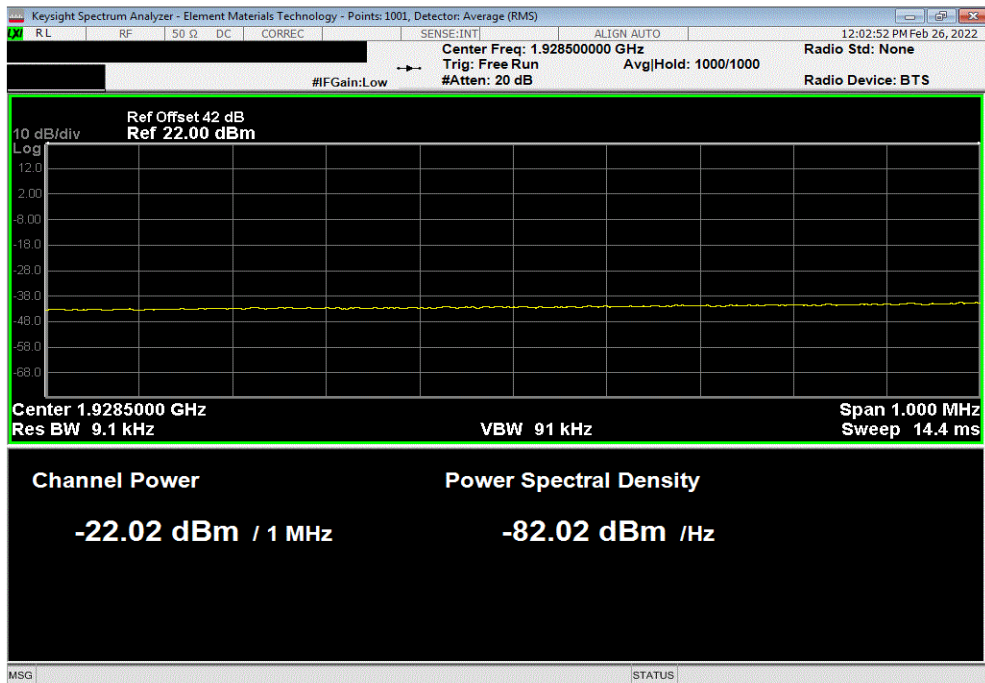


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.0	-19	Pass			

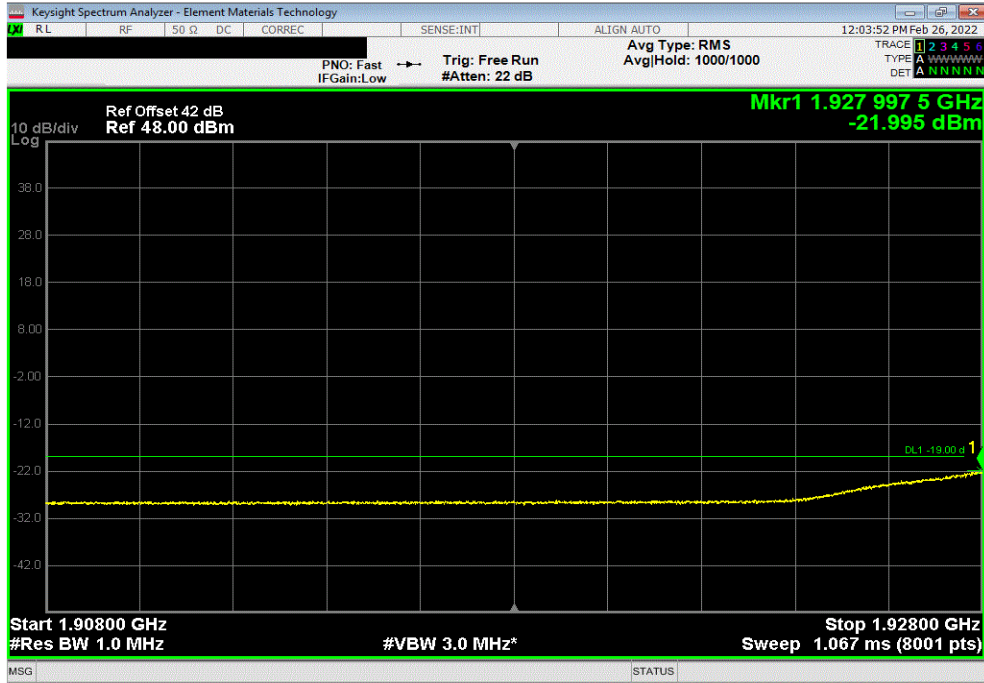


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TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.0	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.0	-19	Pass			

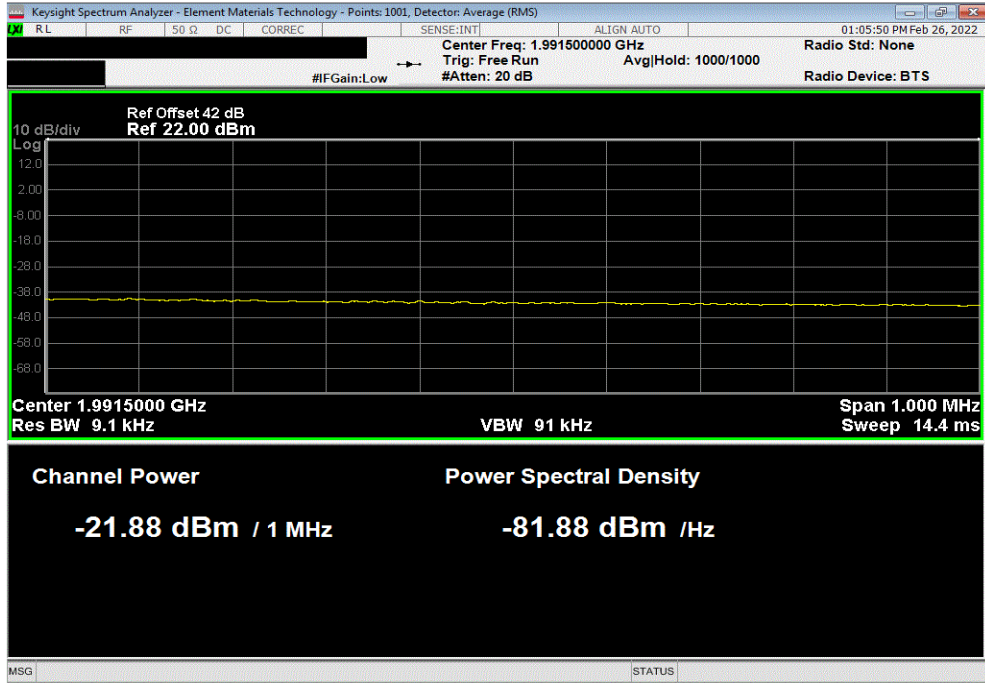


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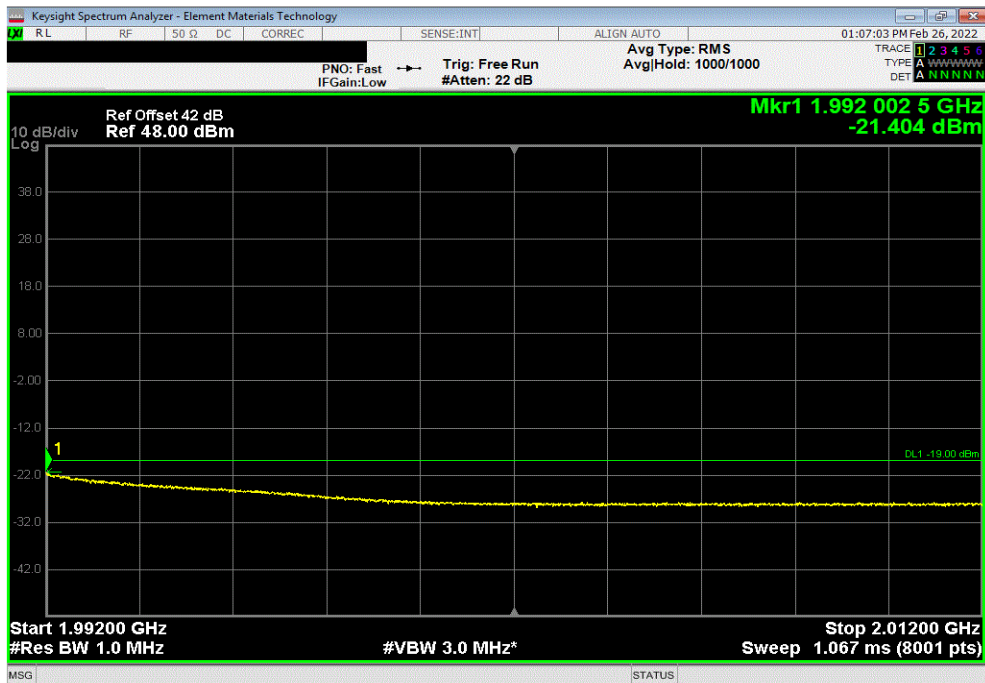


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.9	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 16-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.4	-19	Pass			

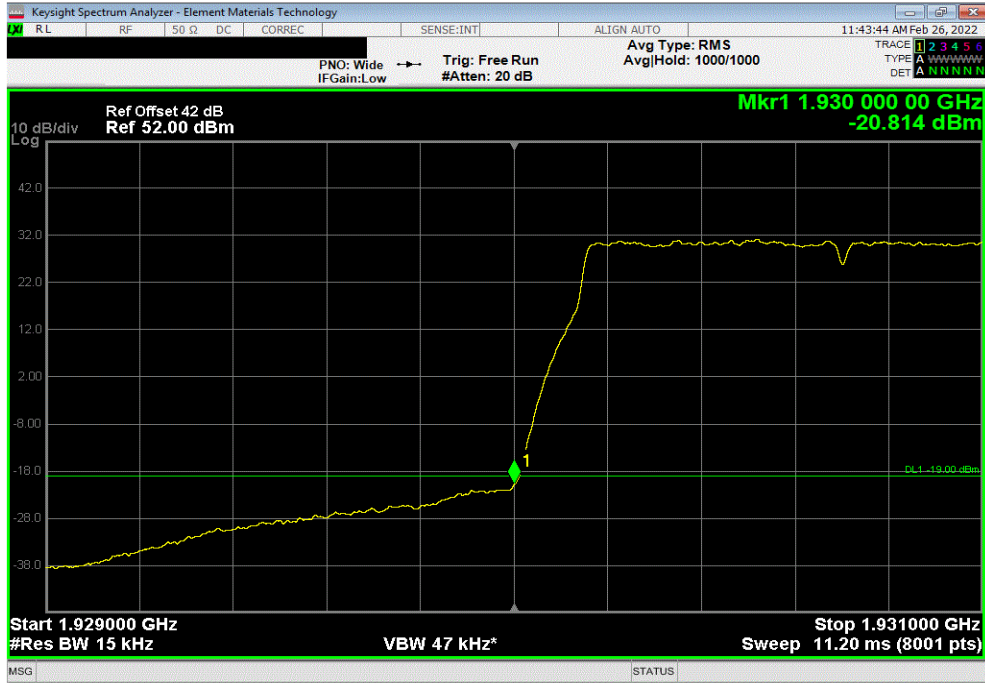


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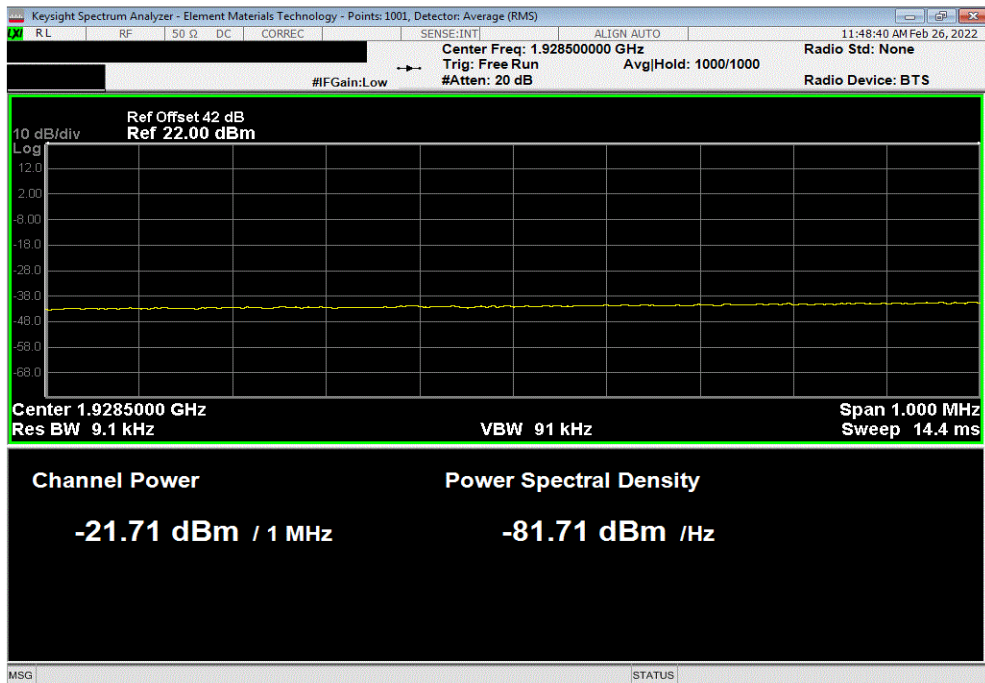


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-20.8	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.7	-19	Pass			

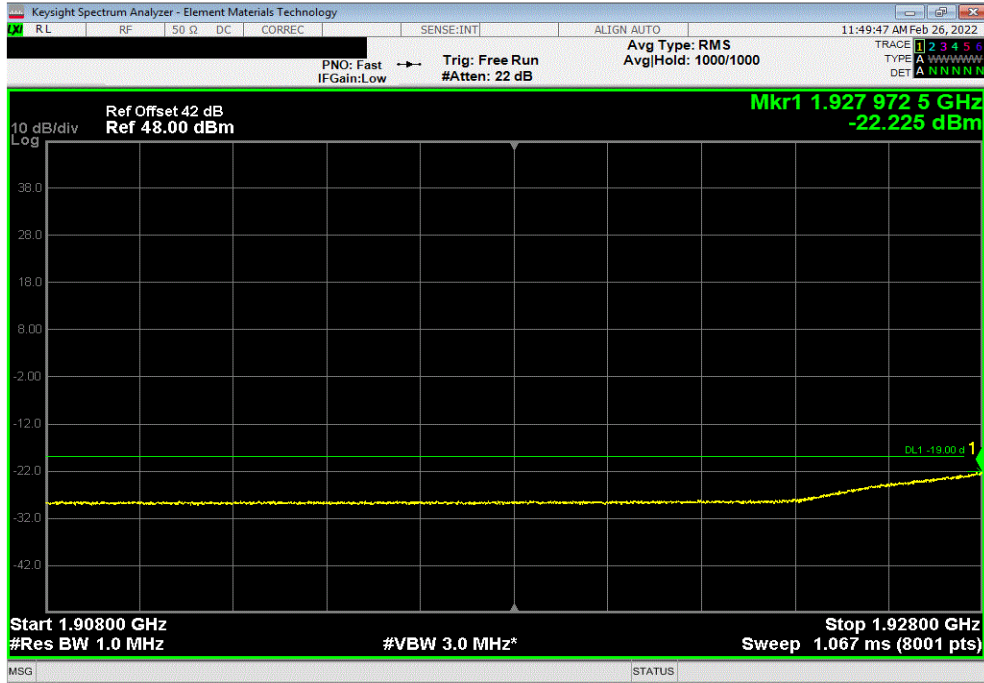


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.4	-19	Pass			

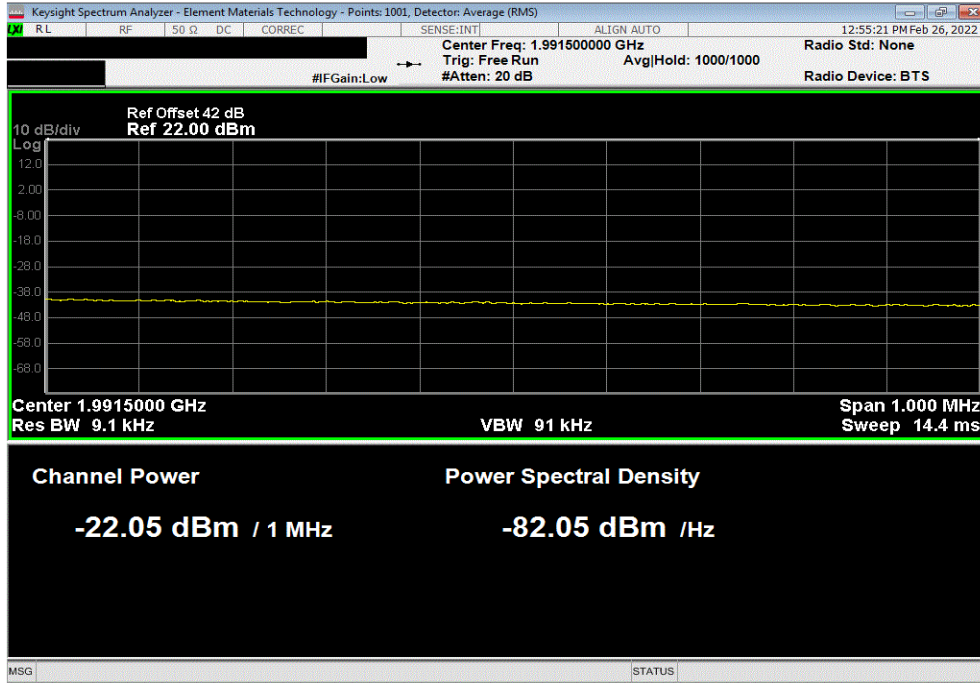


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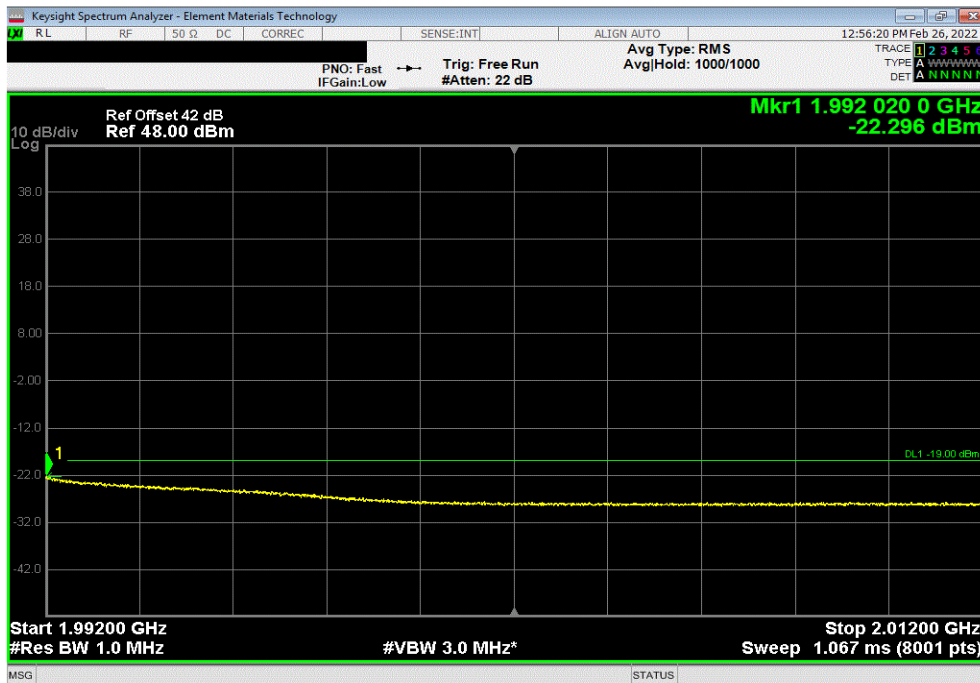


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 64-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.3	-19	Pass			

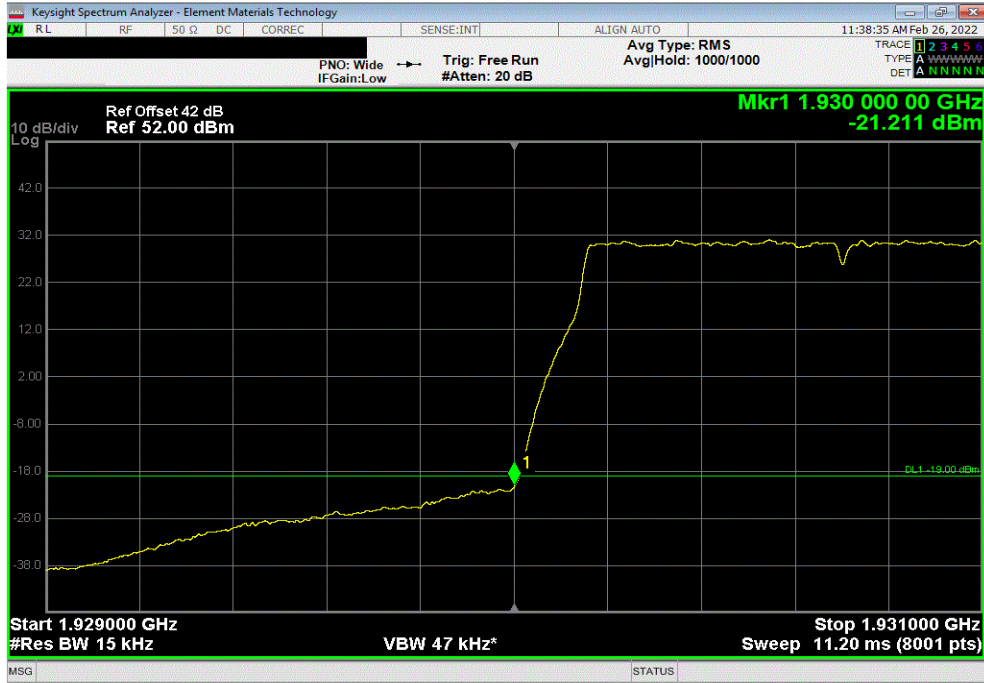


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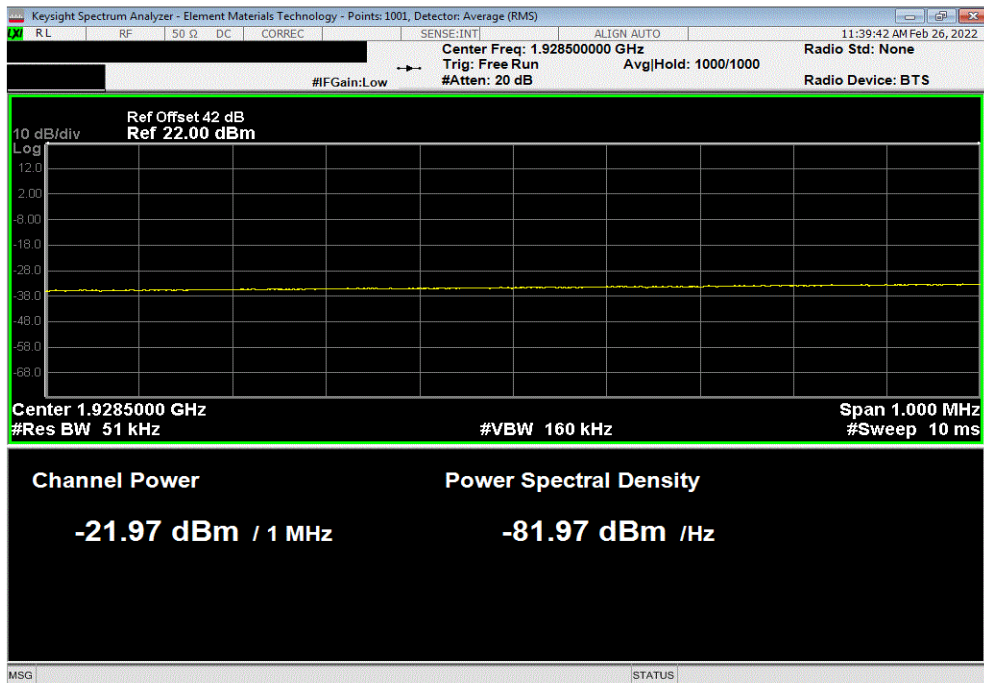


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Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.0	-19	Pass			

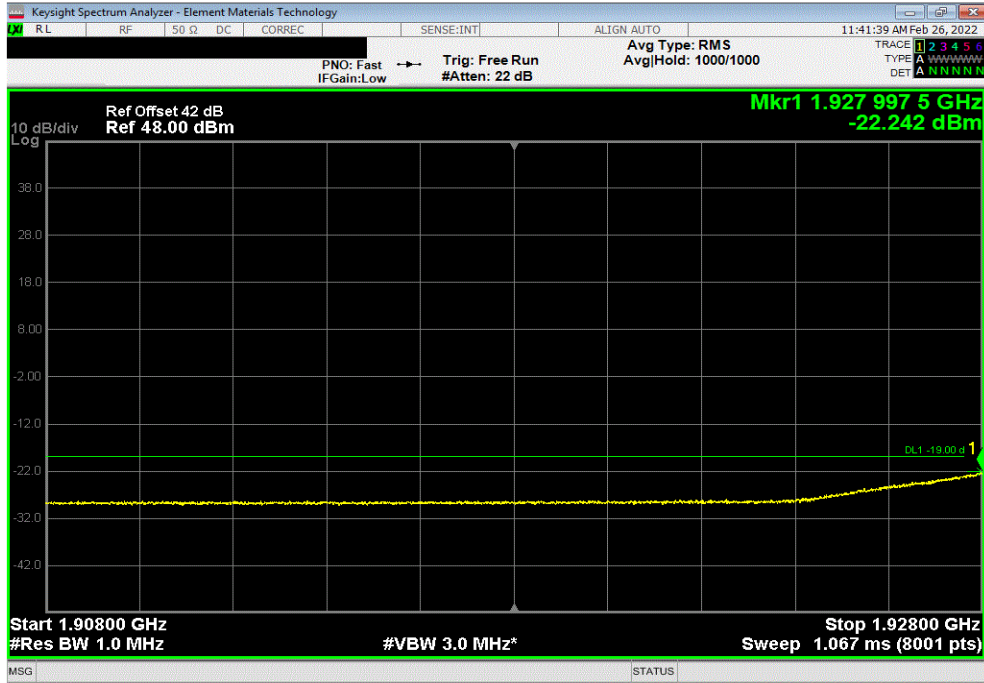


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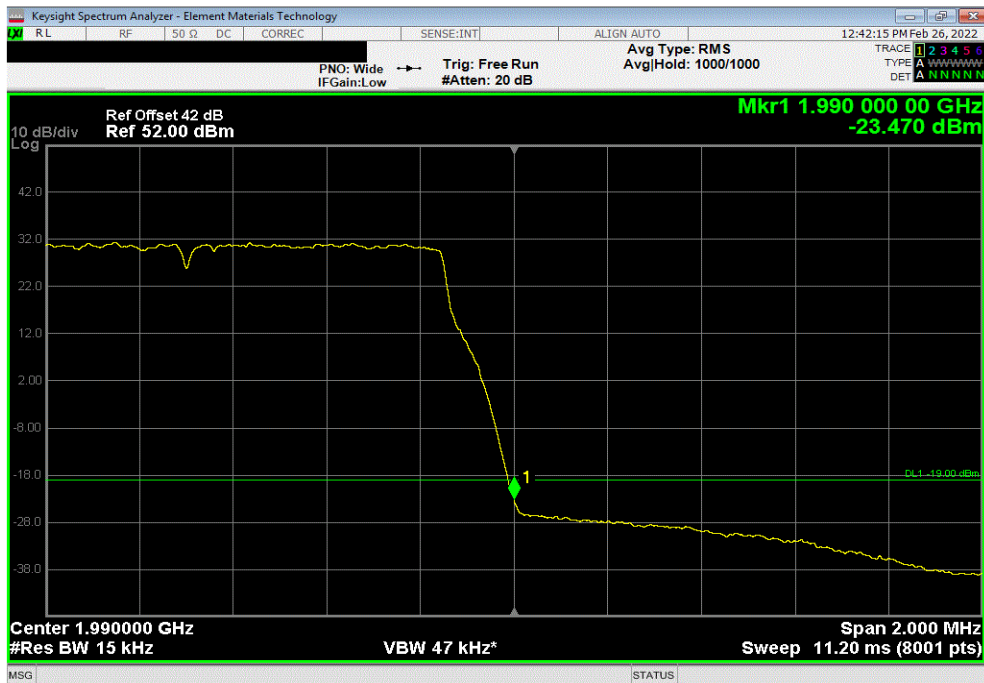


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.5	-19	Pass			

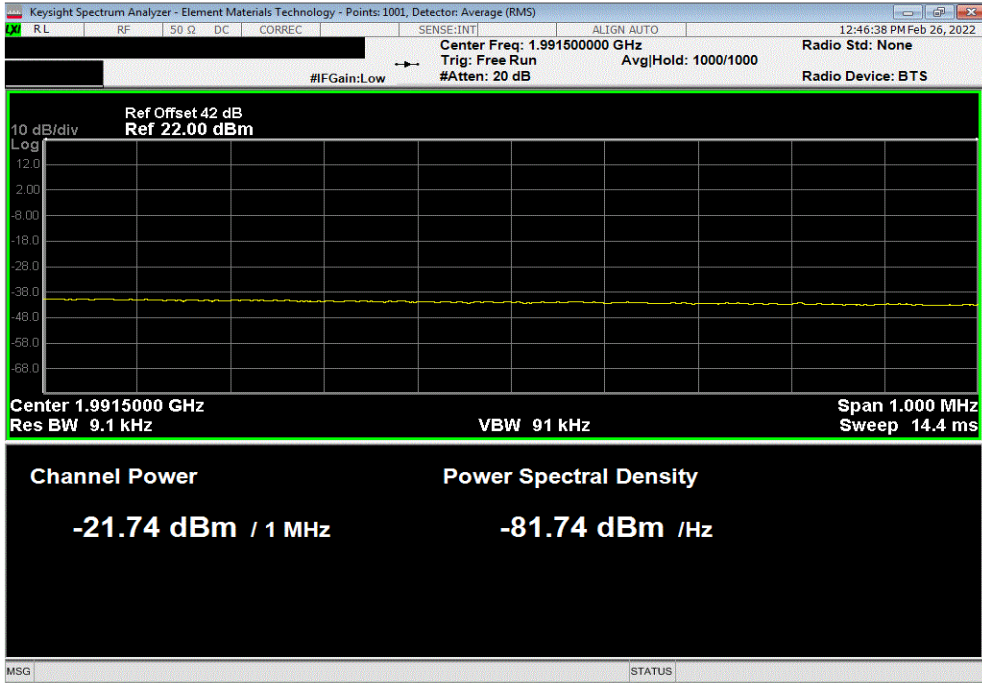


BAND EDGE COMPLIANCE

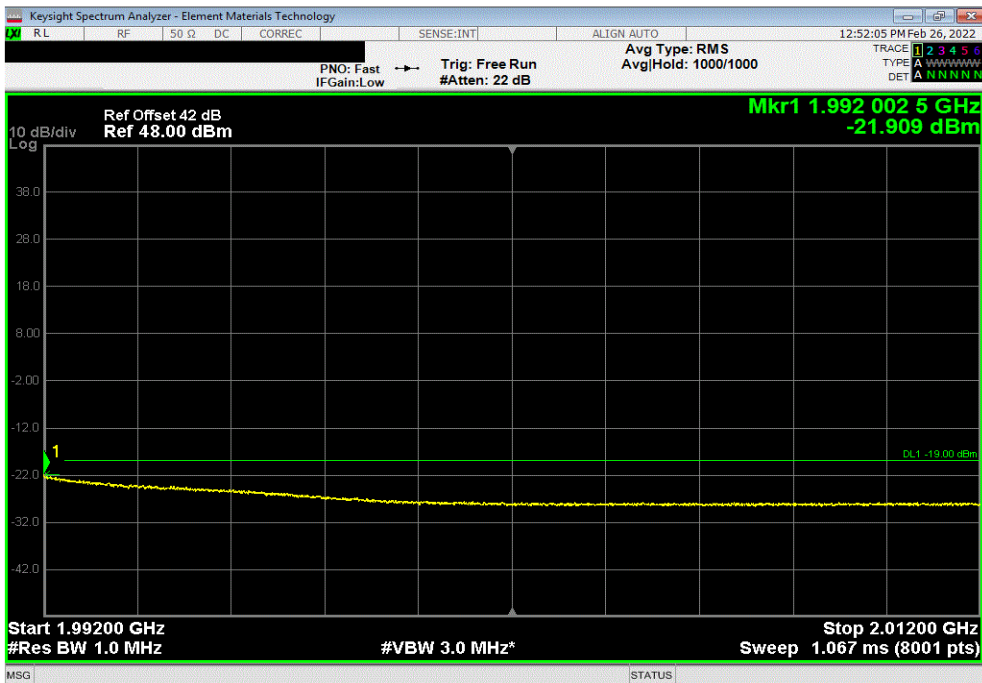


TuTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 1.4 MHz Bandwidth, 256-QAM Modulation, High Channel, 1989.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.9	-19	Pass			

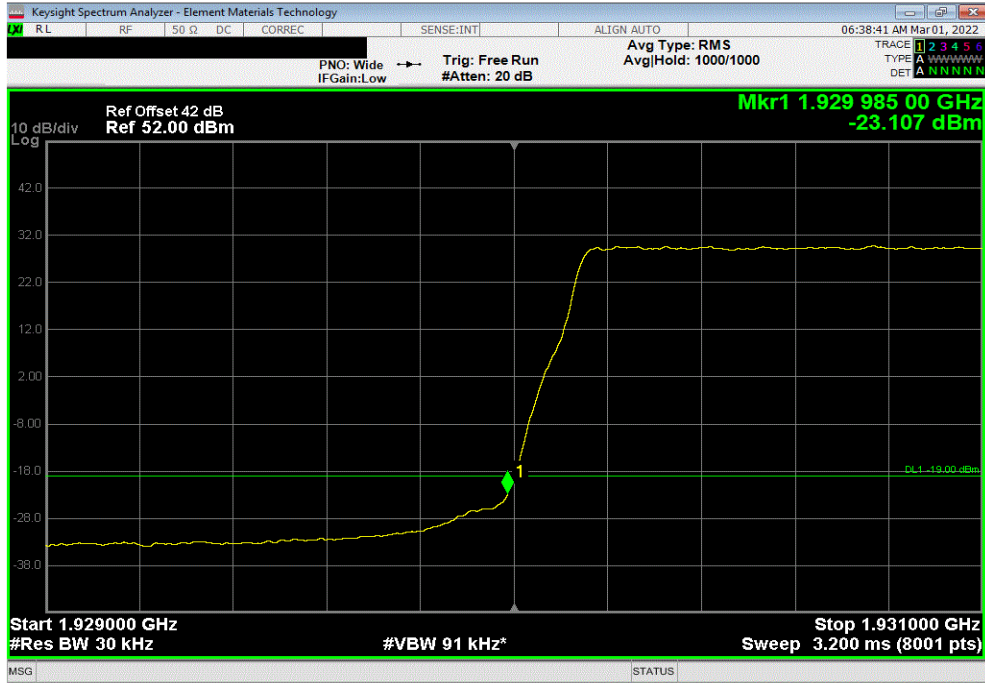


BAND EDGE COMPLIANCE

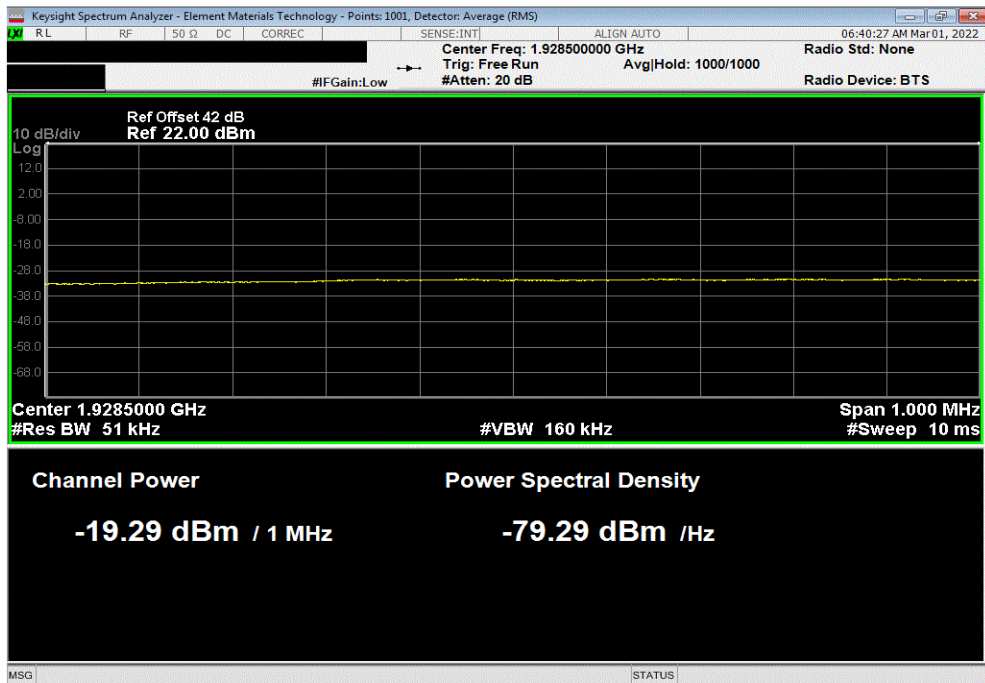


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-19.3	-19	Pass			

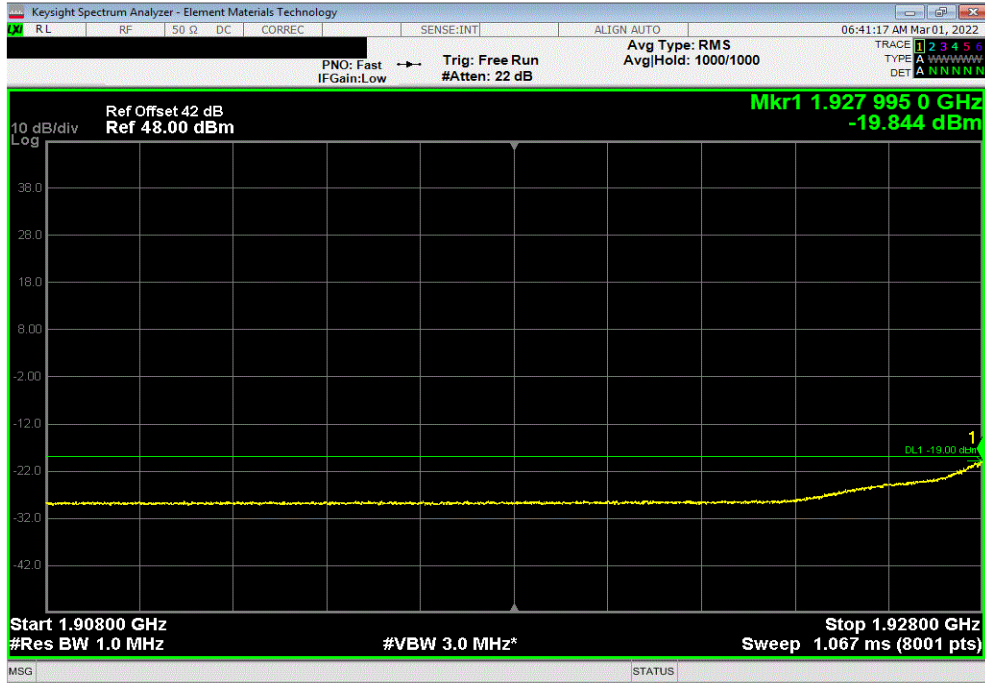


BAND EDGE COMPLIANCE

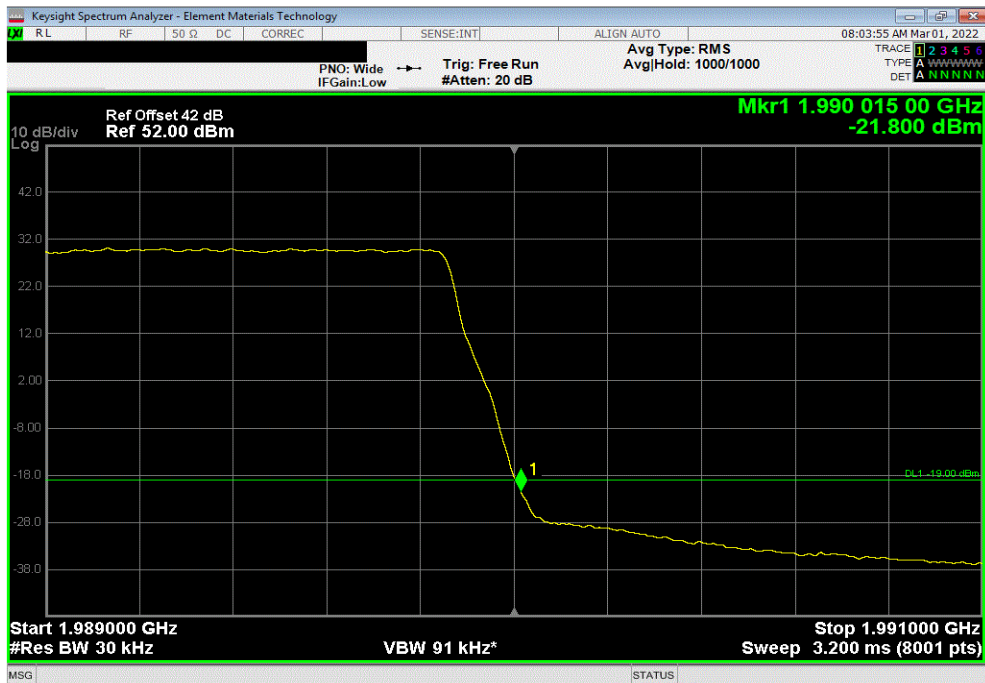


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.8	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.8	-19	Pass			

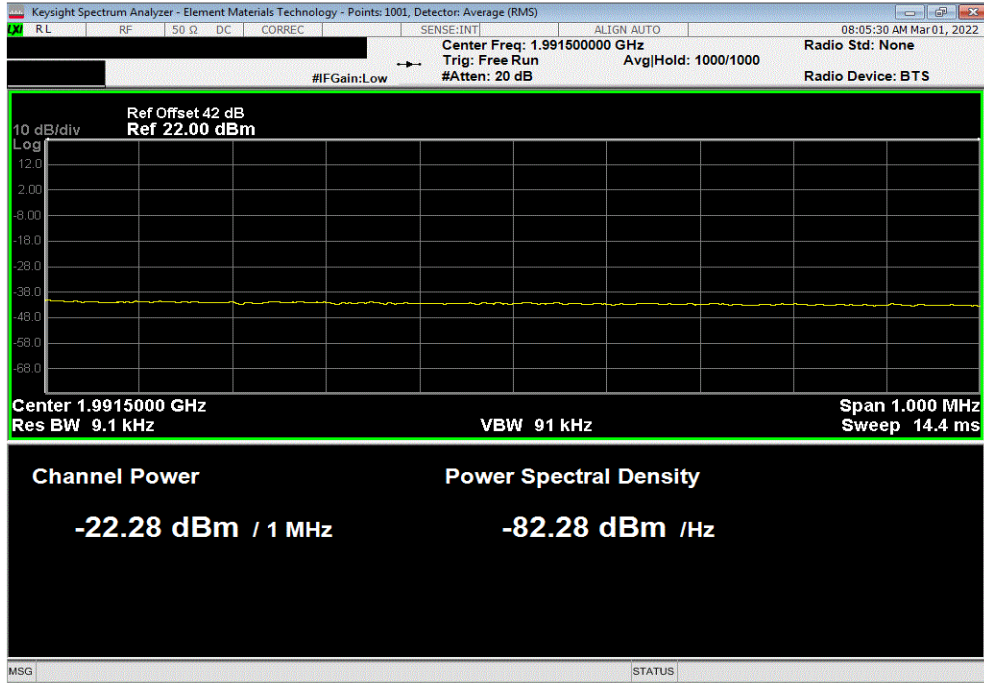


BAND EDGE COMPLIANCE

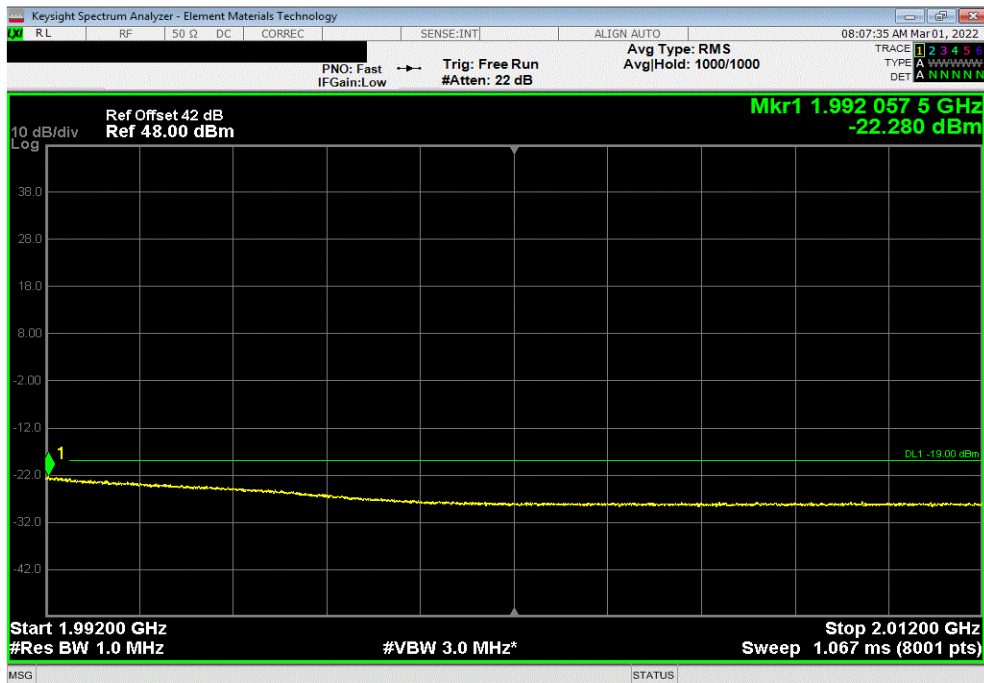


TuTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.3	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, QPSK Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.3	-19	Pass			

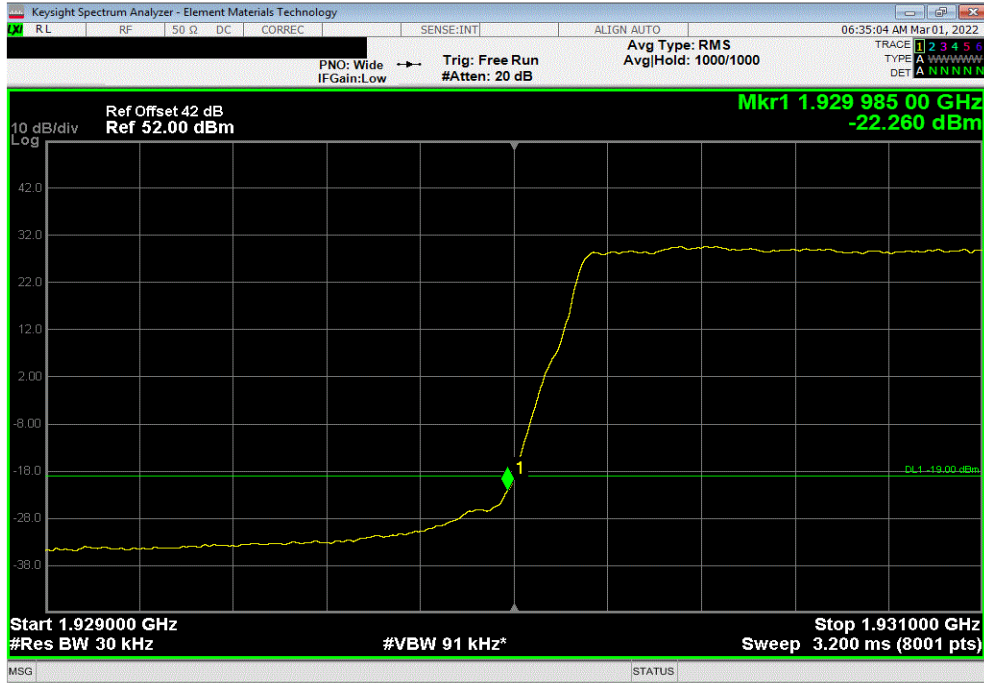


BAND EDGE COMPLIANCE

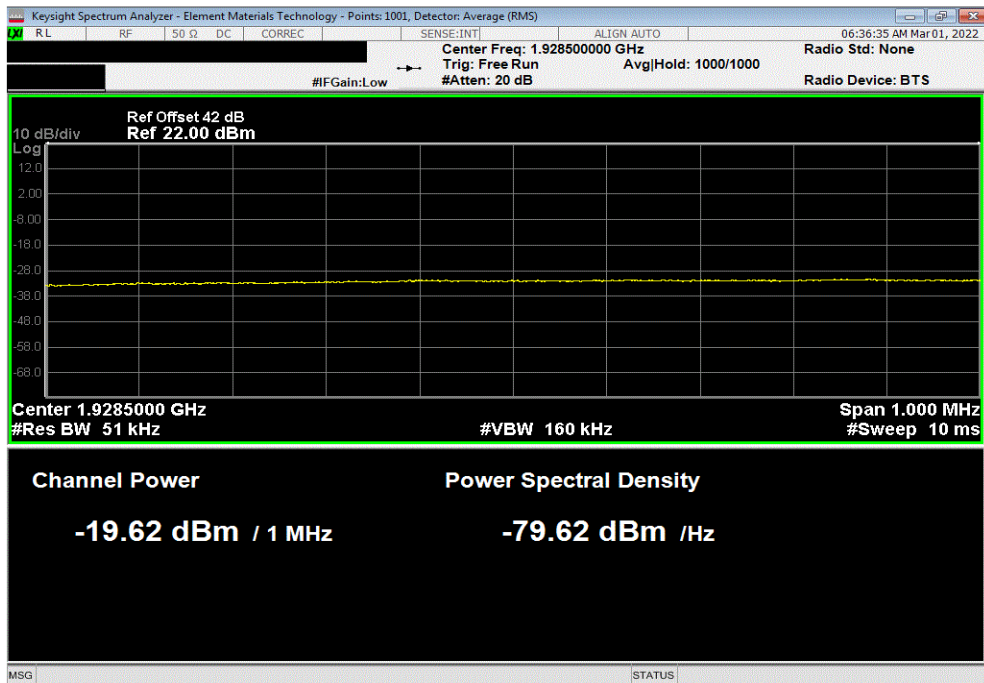


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.3	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-19.6	-19	Pass			

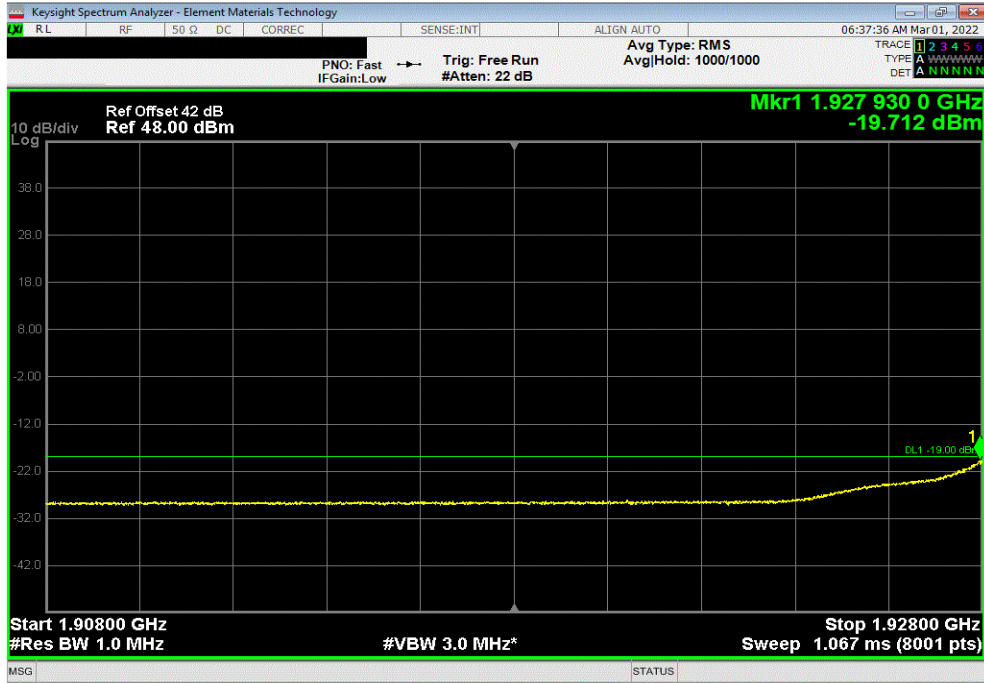


BAND EDGE COMPLIANCE

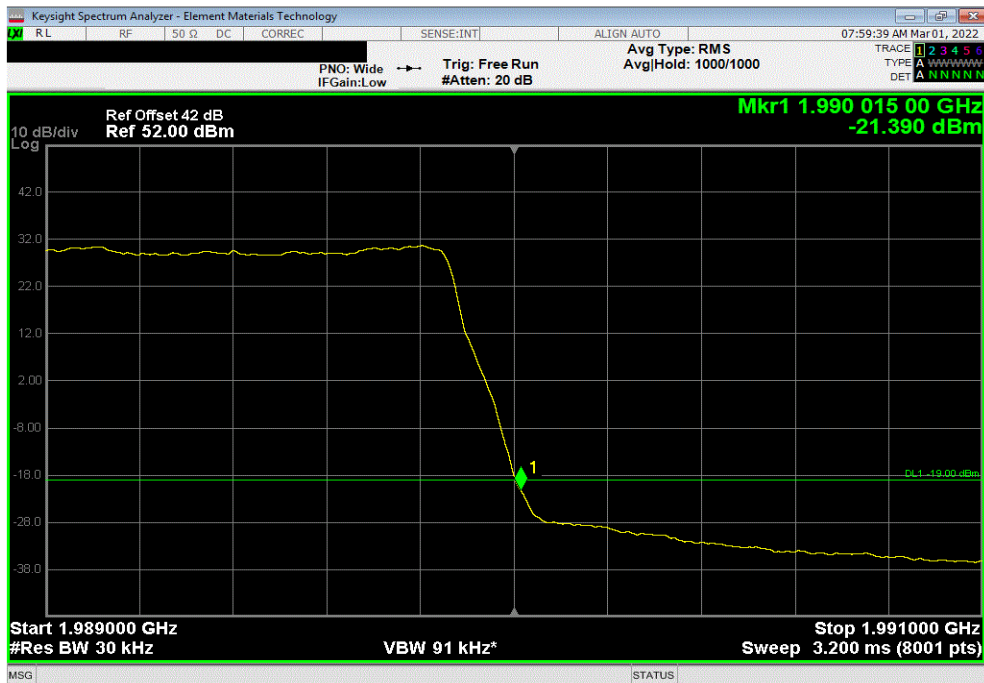


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.4	-19	Pass			

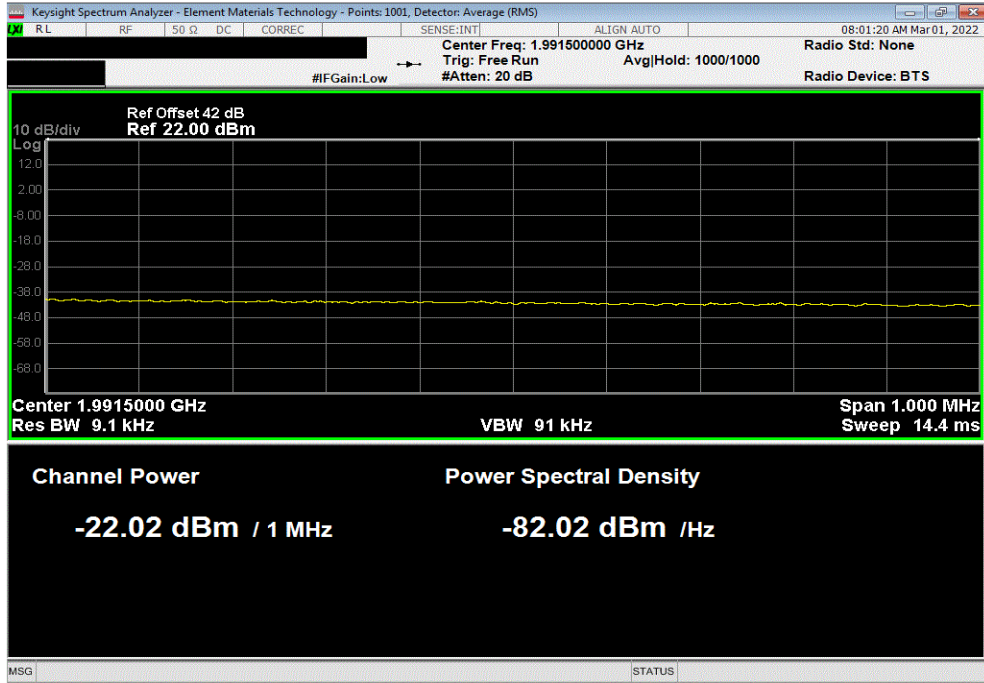


BAND EDGE COMPLIANCE

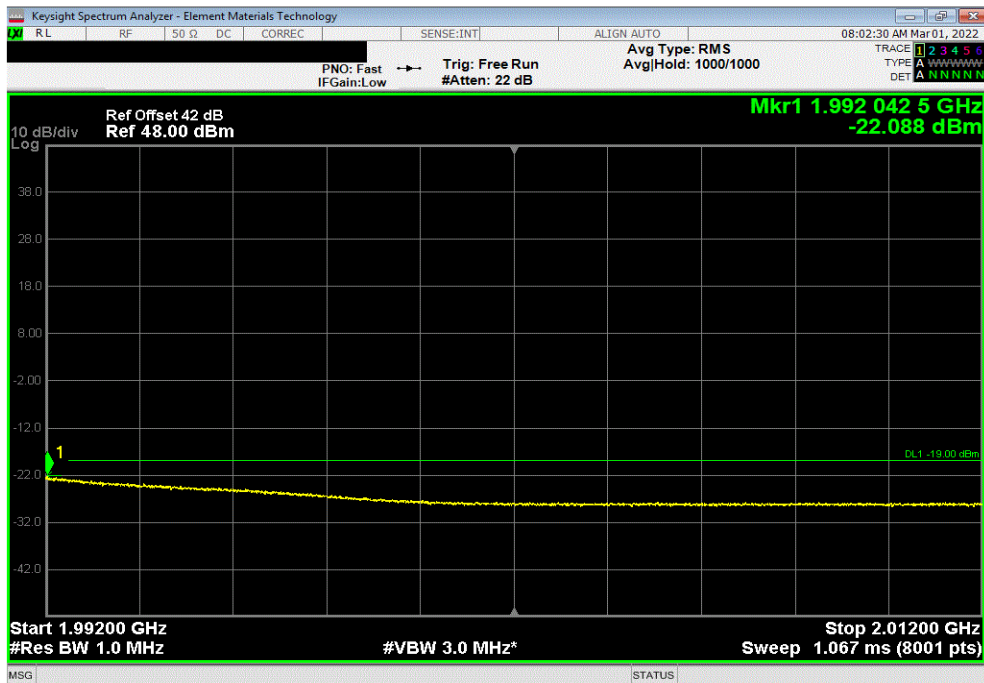


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.0	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 16-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.1	-19	Pass			

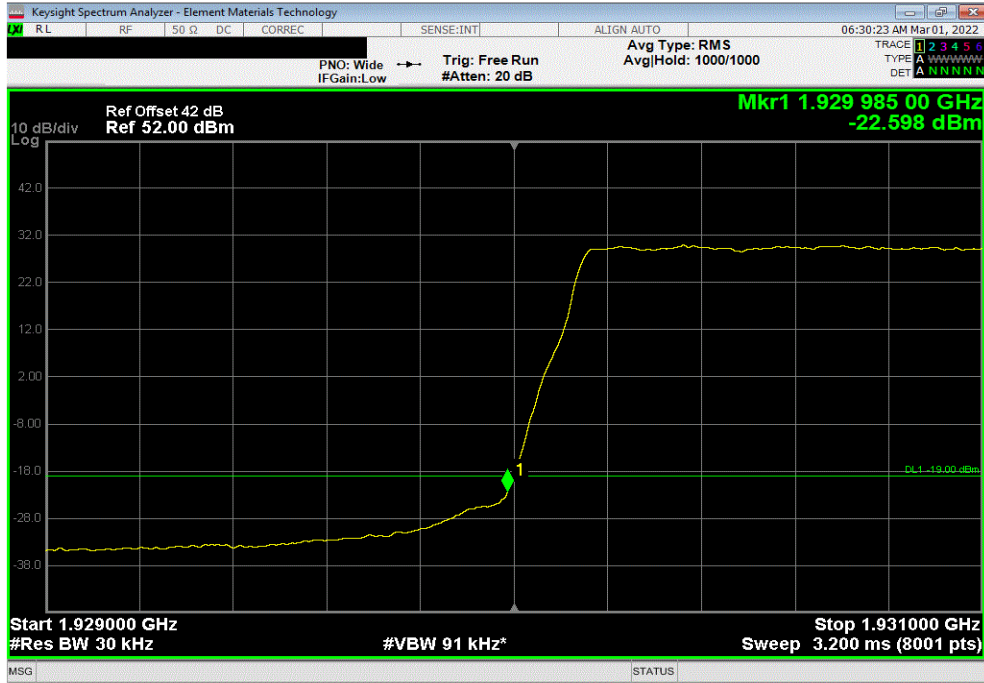


BAND EDGE COMPLIANCE

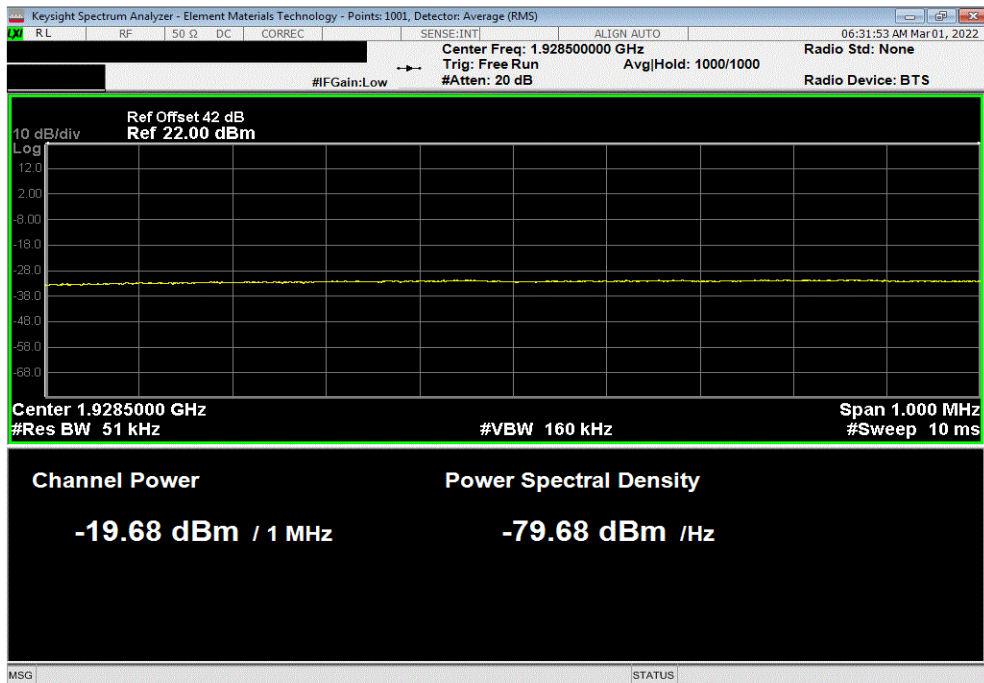


Tel: 2021.12.14.1 XMI: 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.6	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-19.7	-19	Pass			

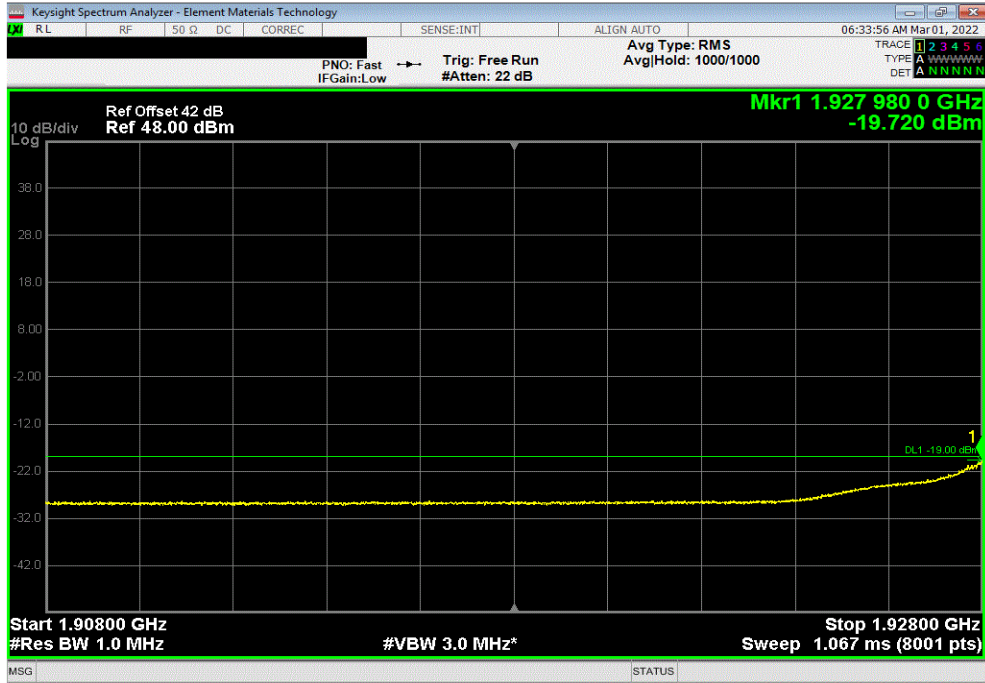


BAND EDGE COMPLIANCE

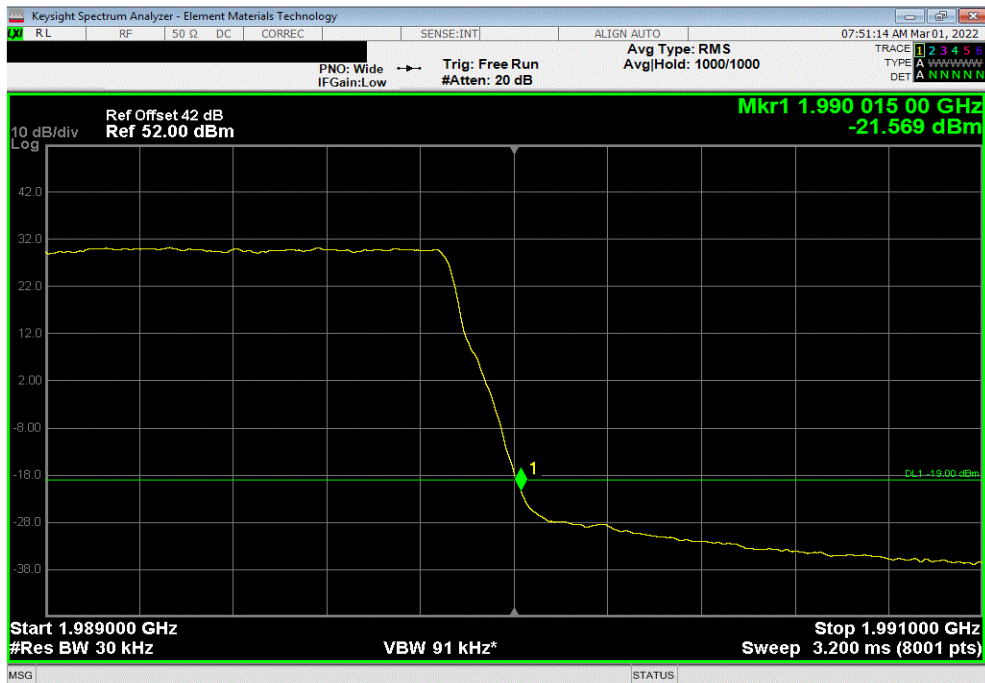


Tel: 2021.12.14.1 XMI: 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.6	-19	Pass			

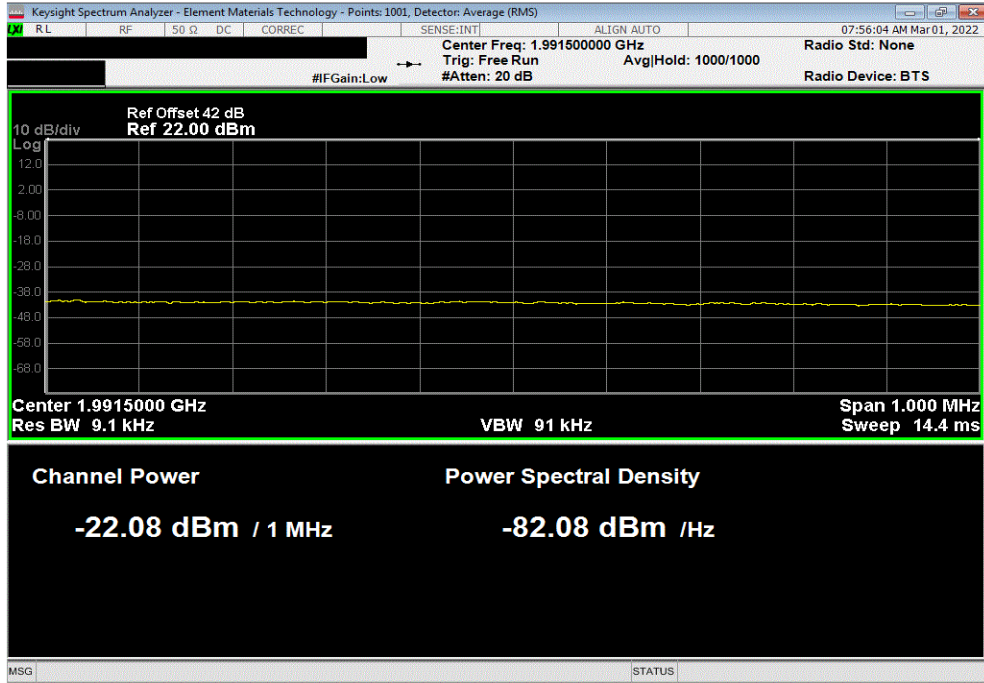


BAND EDGE COMPLIANCE

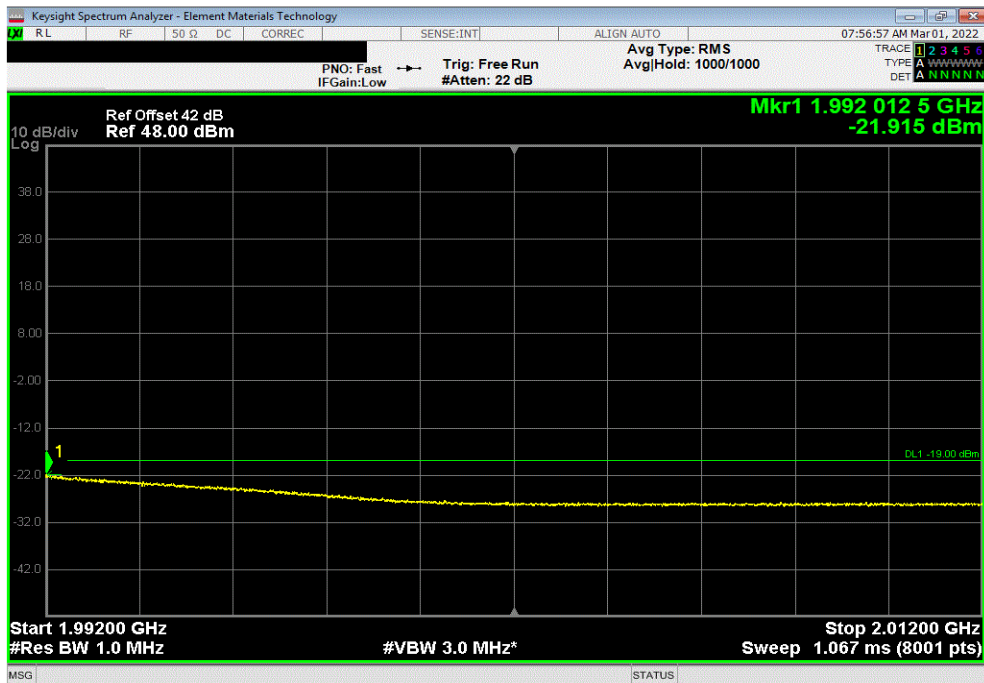


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 64-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.9	-19	Pass			

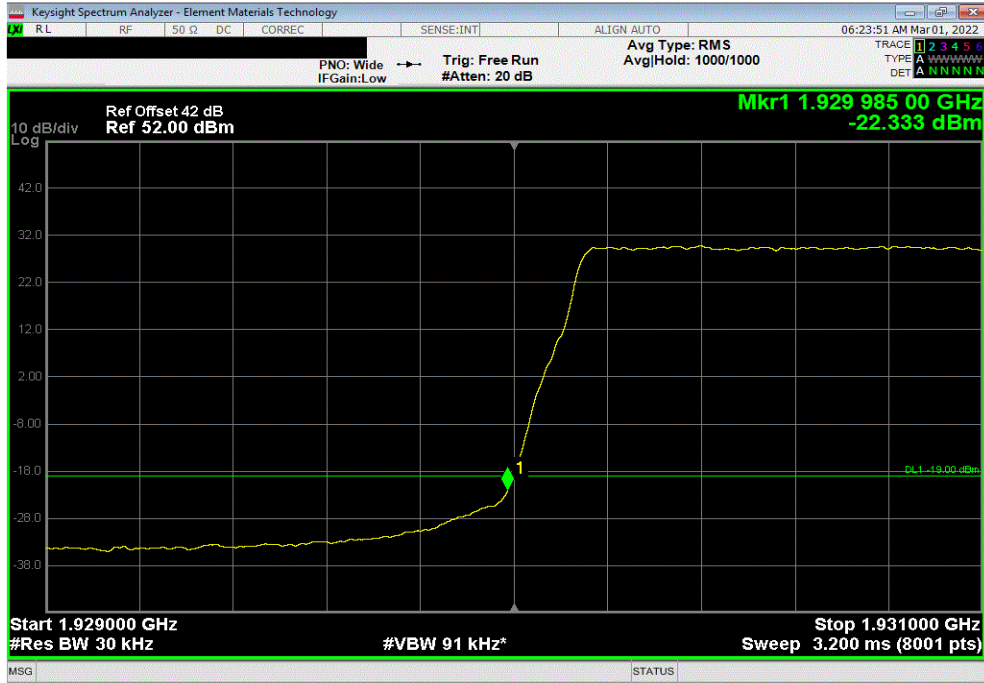


BAND EDGE COMPLIANCE

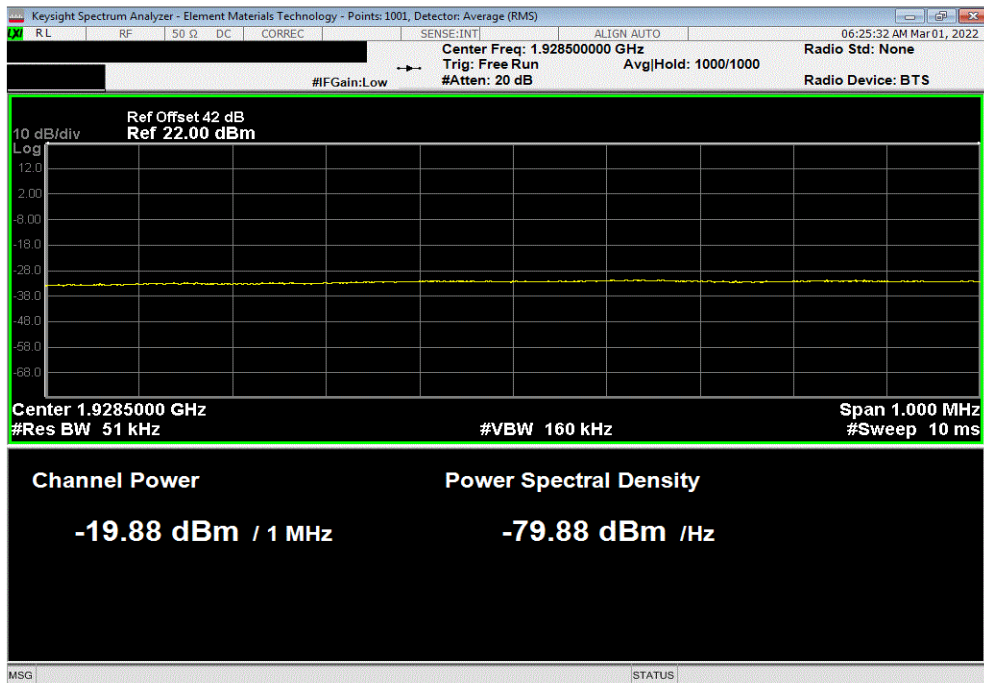


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.3	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-19.9	-19	Pass			

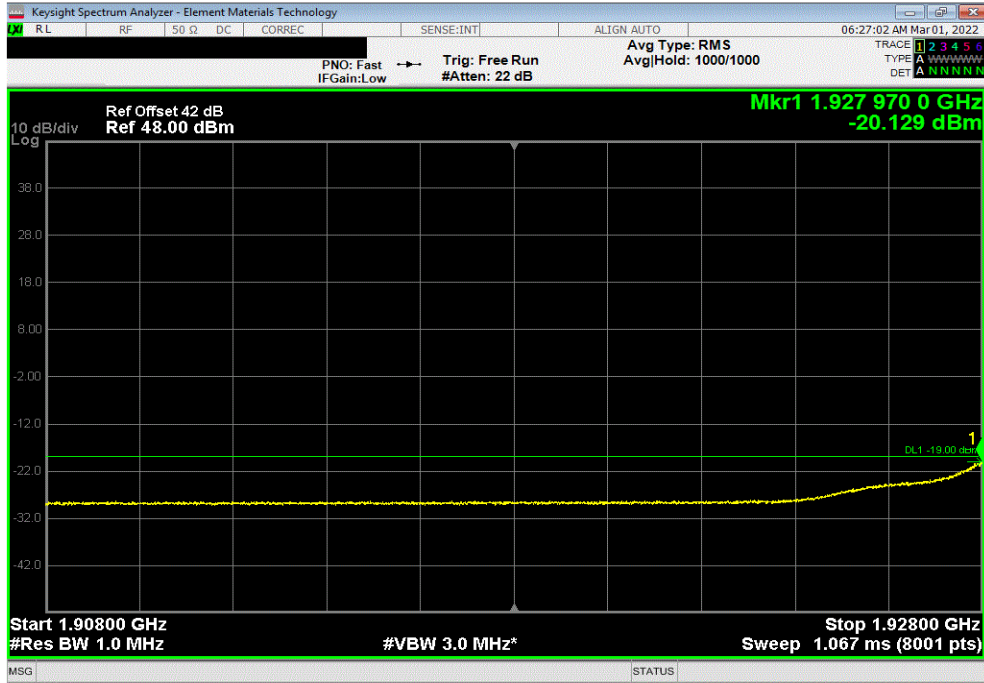


BAND EDGE COMPLIANCE

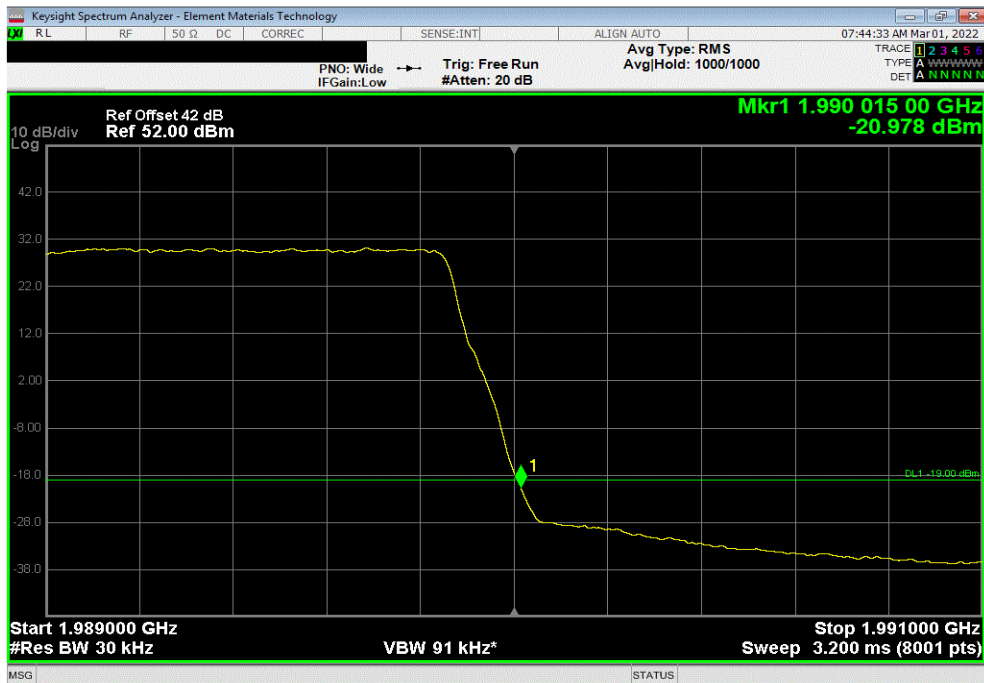


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1931.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.0	-19	Pass			

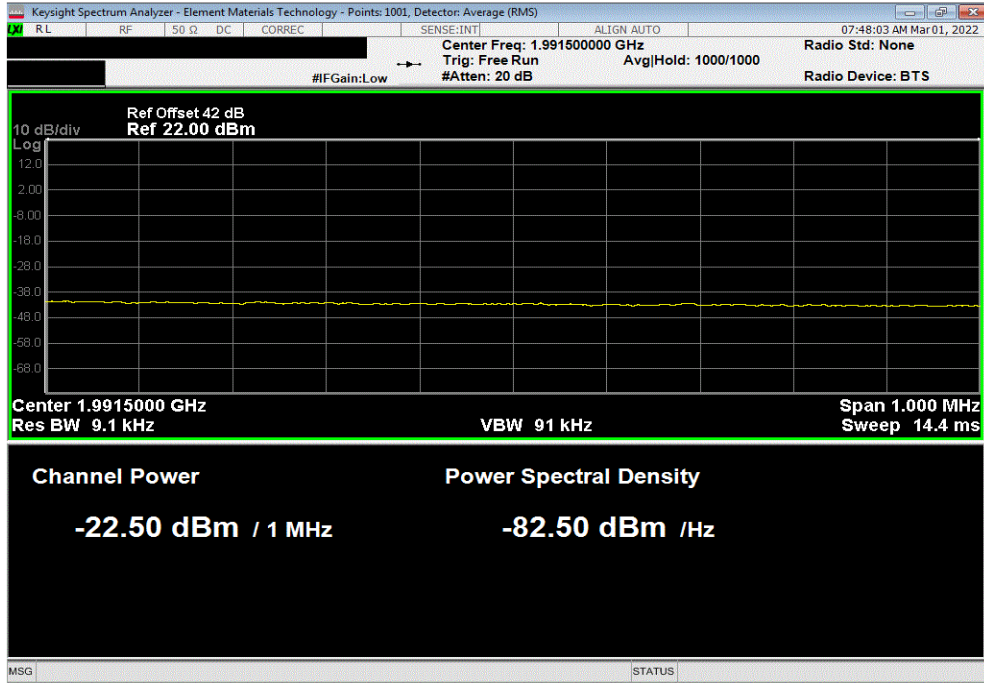


BAND EDGE COMPLIANCE

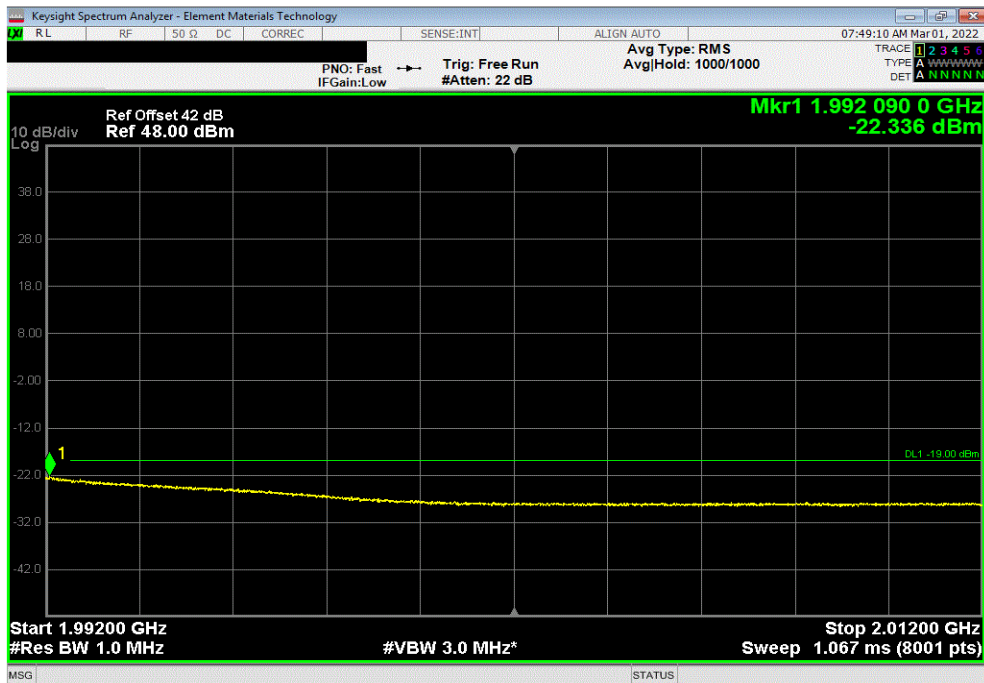


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.5	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 3 MHz Bandwidth, 256-QAM Modulation, High Channel, 1988.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.3	-19	Pass			

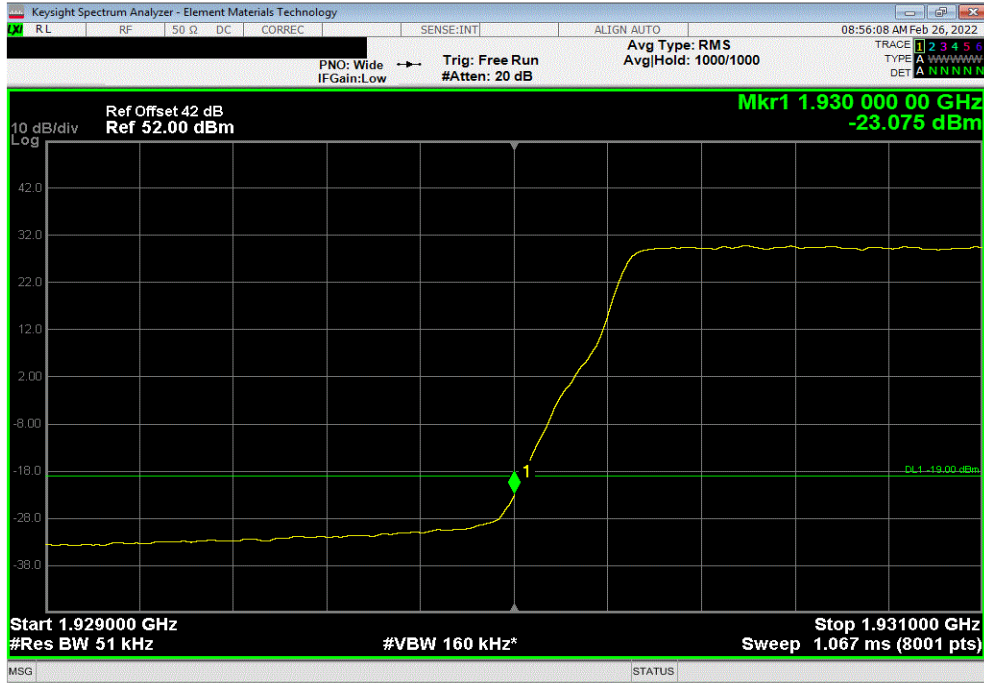


BAND EDGE COMPLIANCE

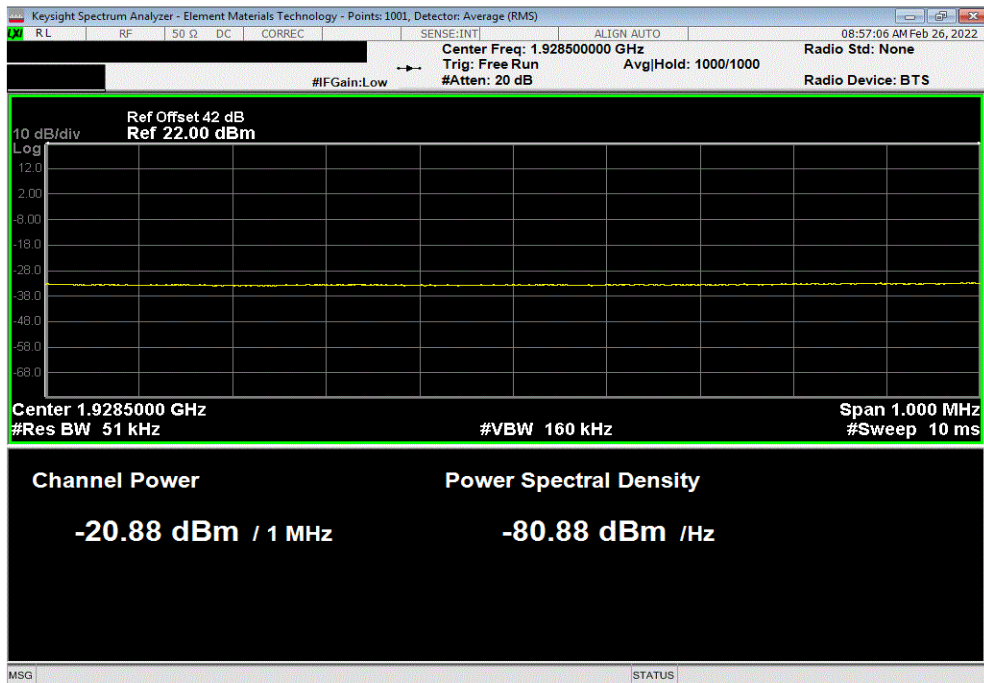


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-20.9	-19	Pass			

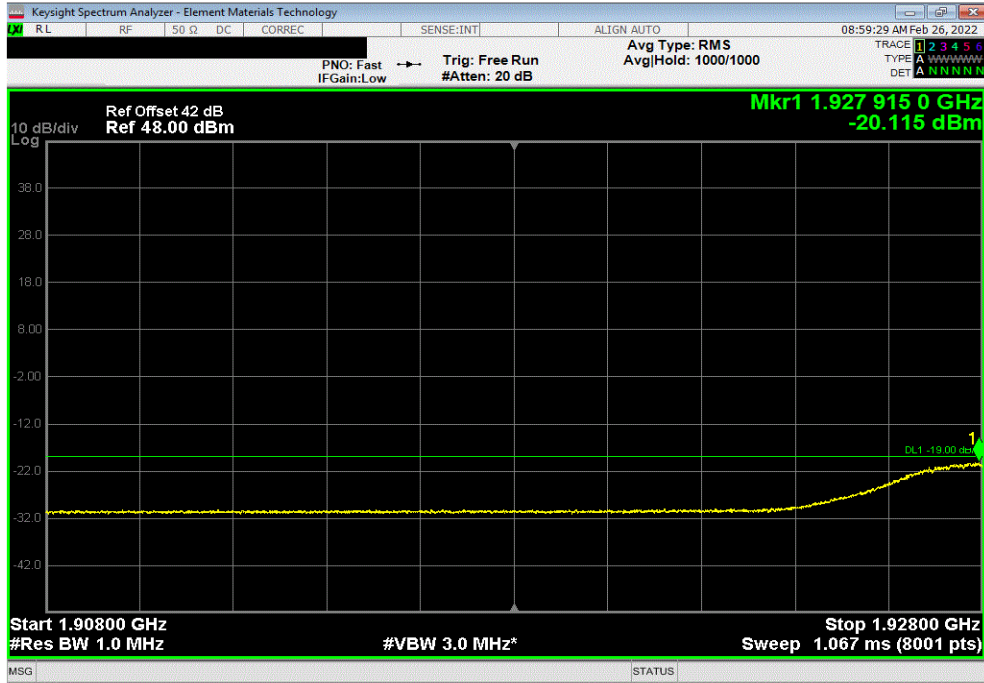


BAND EDGE COMPLIANCE

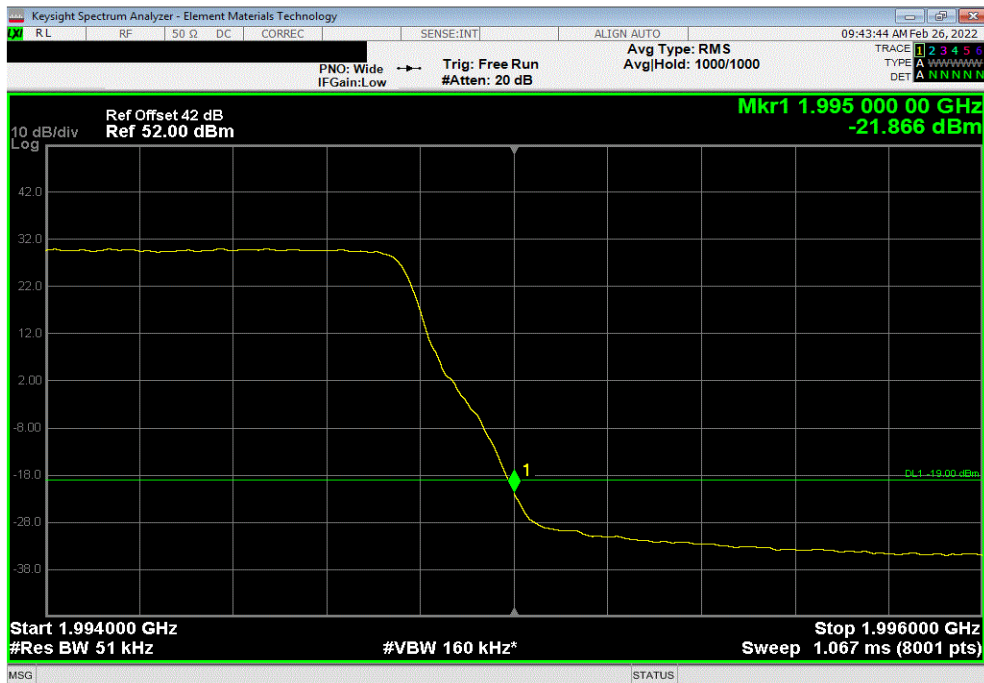


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.9	-19	Pass			

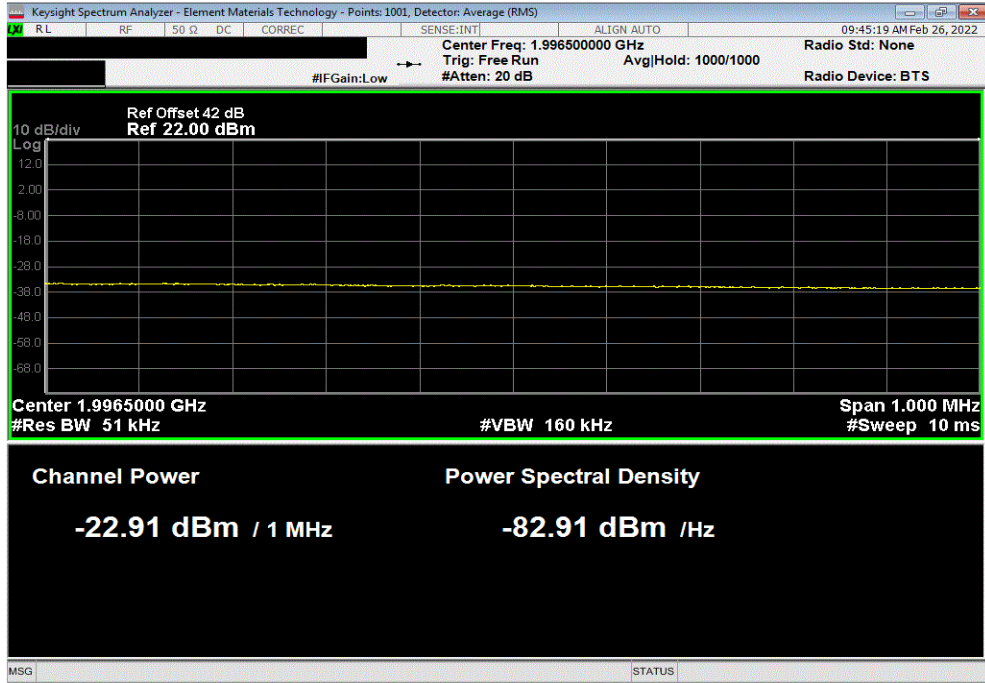


BAND EDGE COMPLIANCE

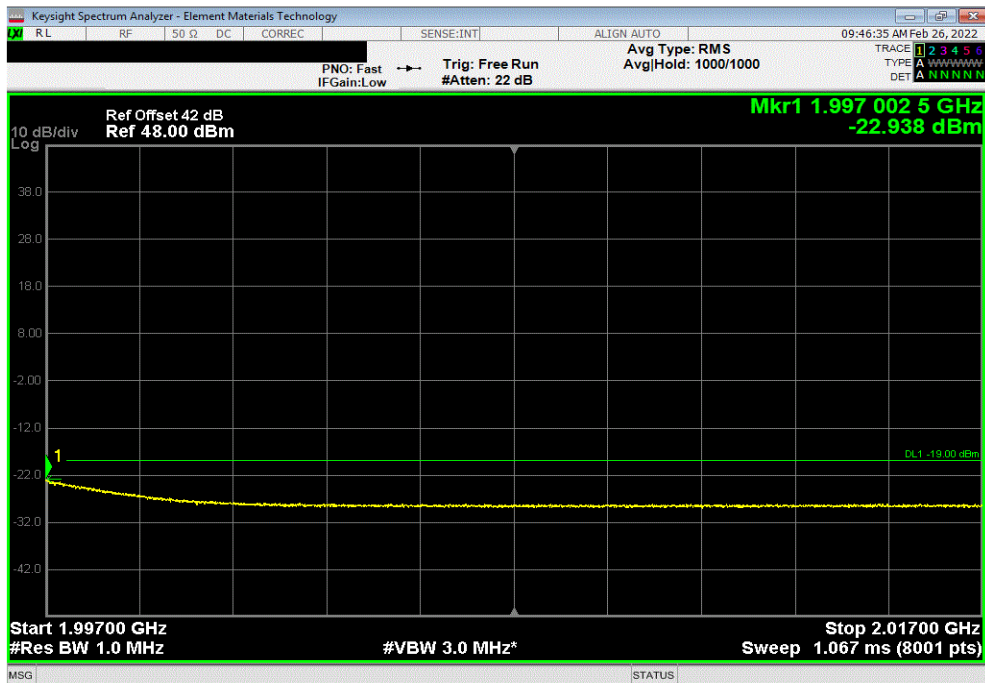


TuTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.9	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, QPSK Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.9	-19	Pass			

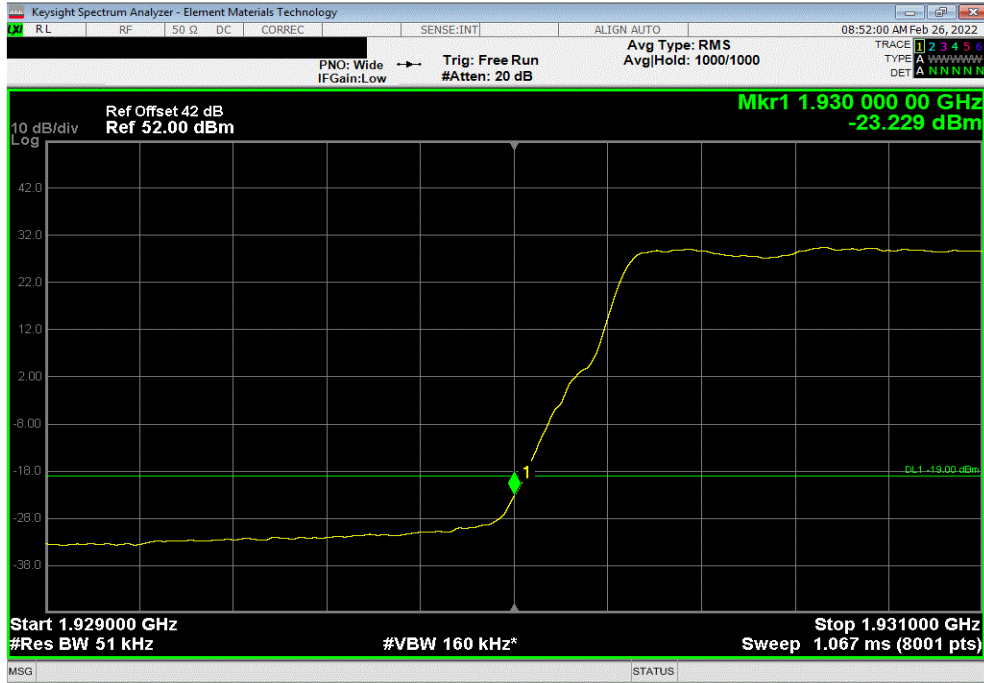


BAND EDGE COMPLIANCE

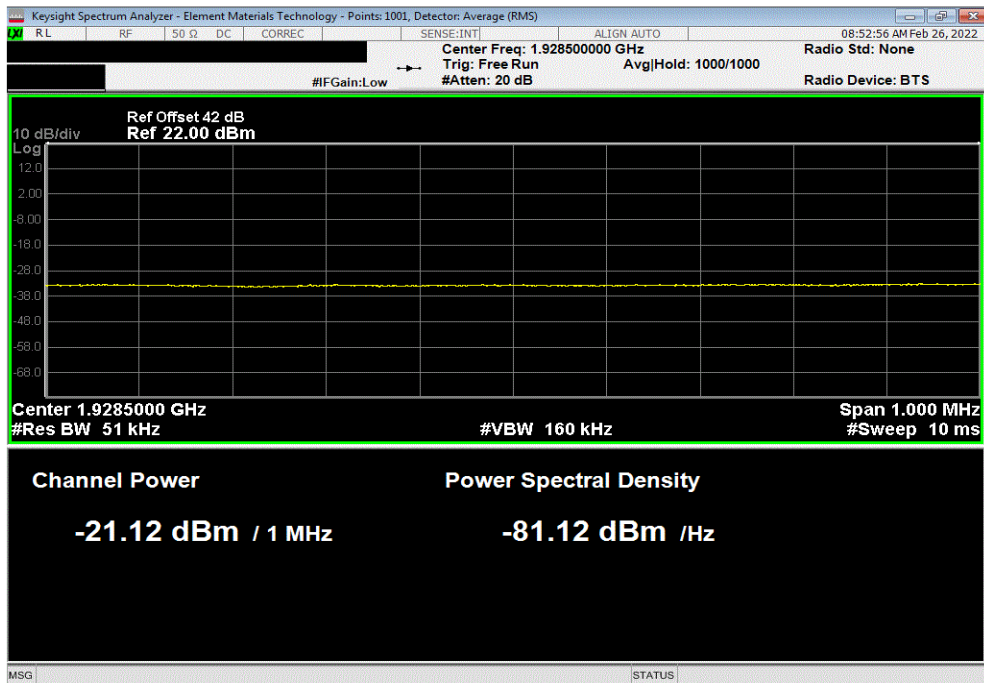


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.1	-19	Pass			

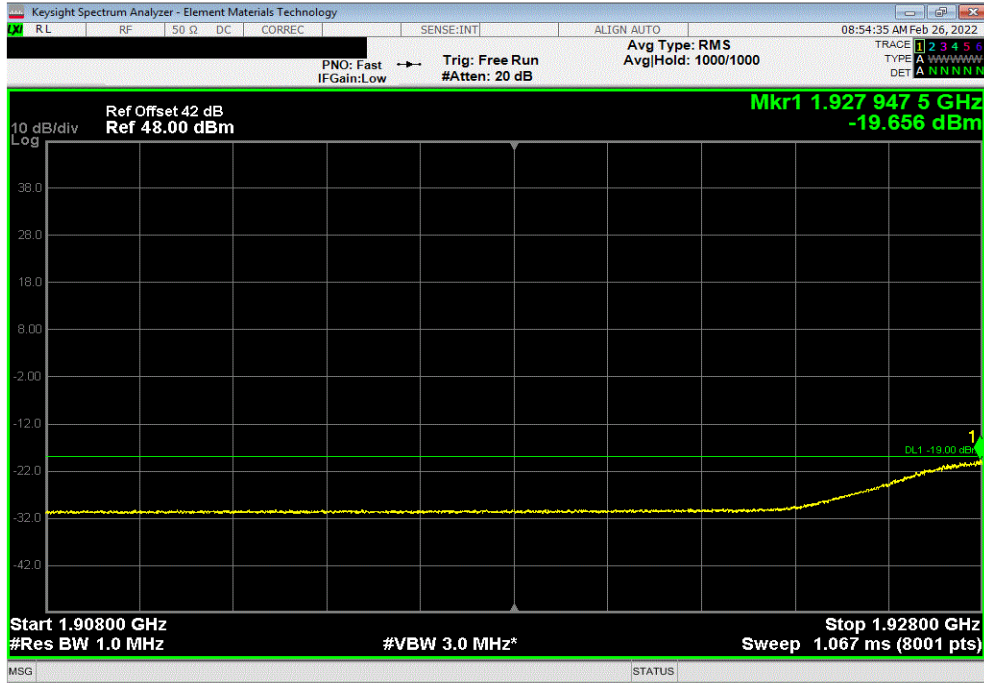


BAND EDGE COMPLIANCE

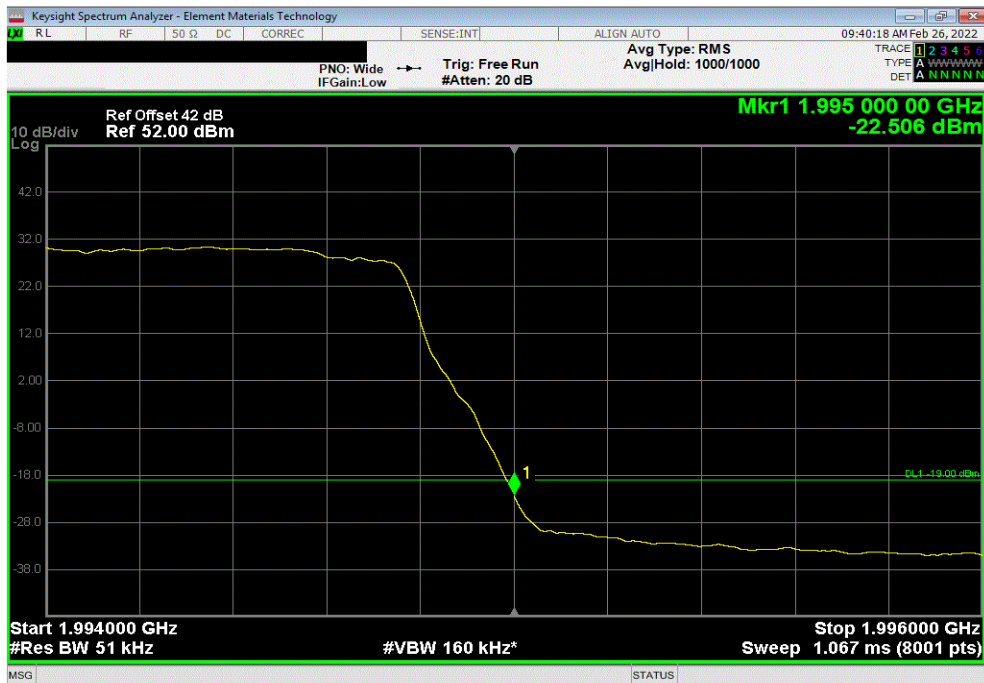


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.5	-19	Pass	3		

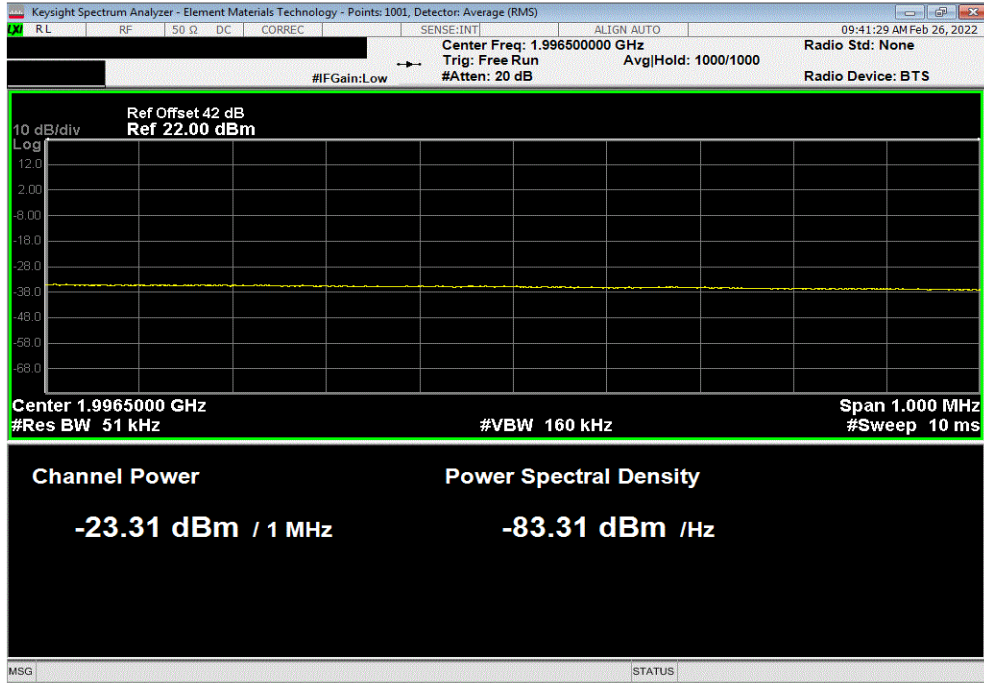


BAND EDGE COMPLIANCE

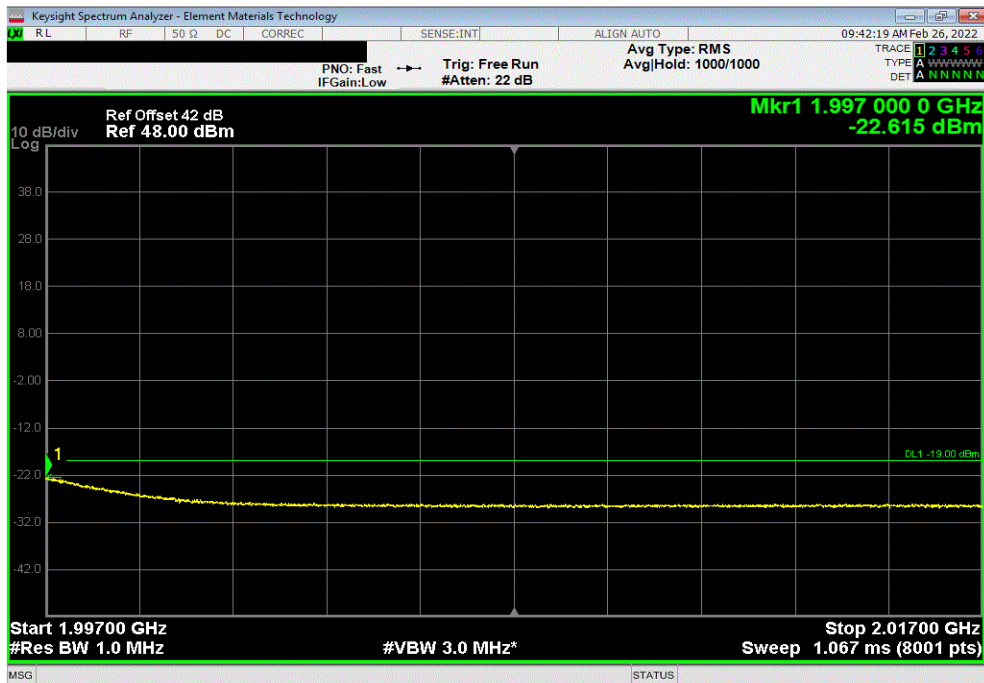


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.3	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.6	-19	Pass			

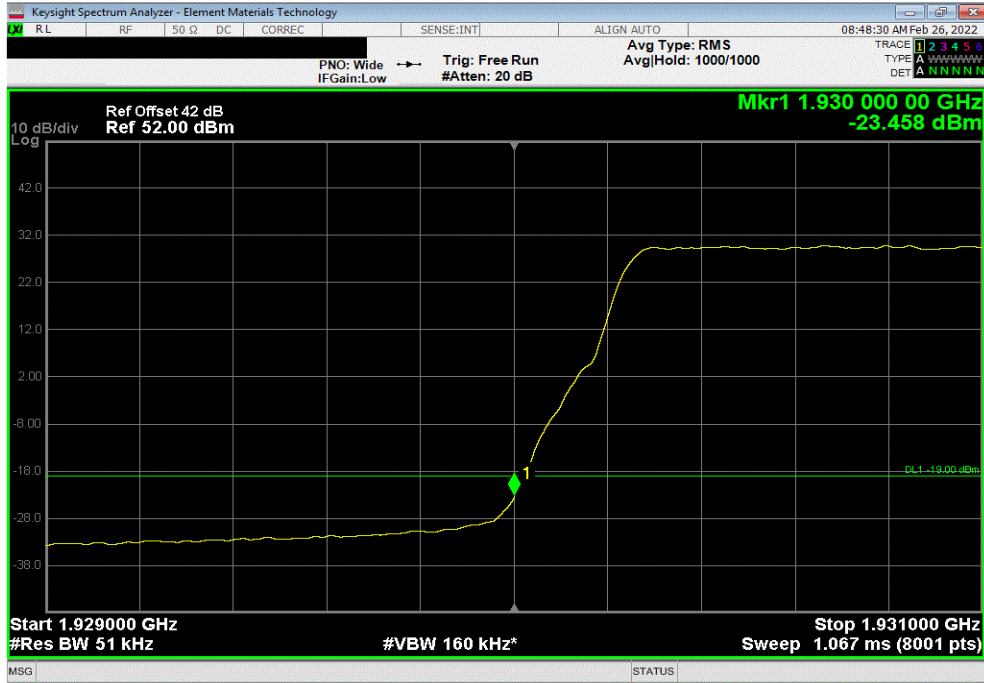


BAND EDGE COMPLIANCE

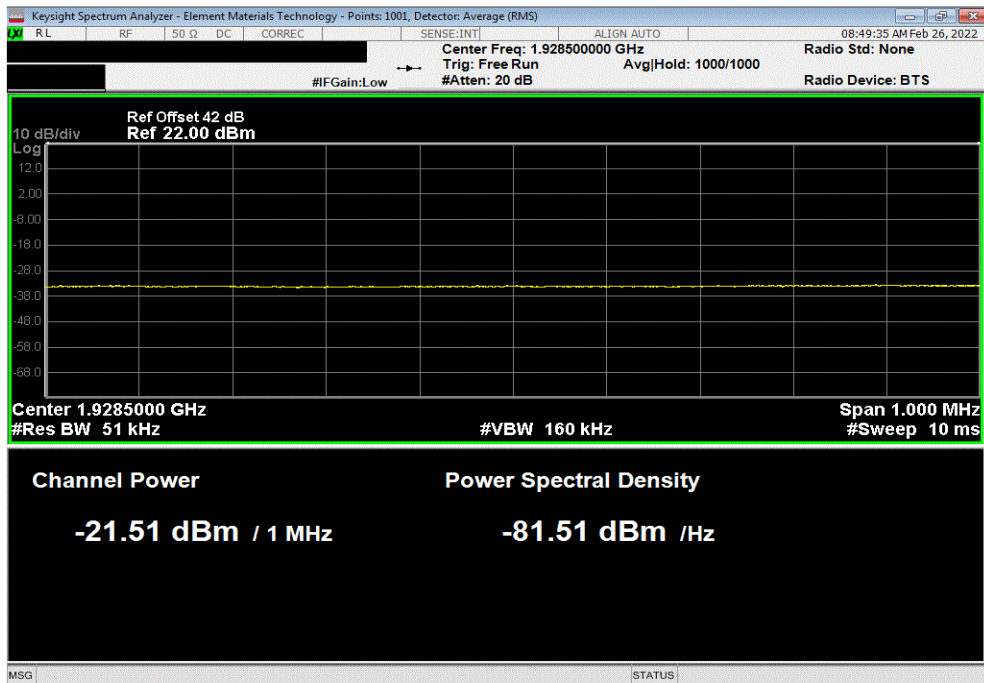


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.5	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.5	-19	Pass			

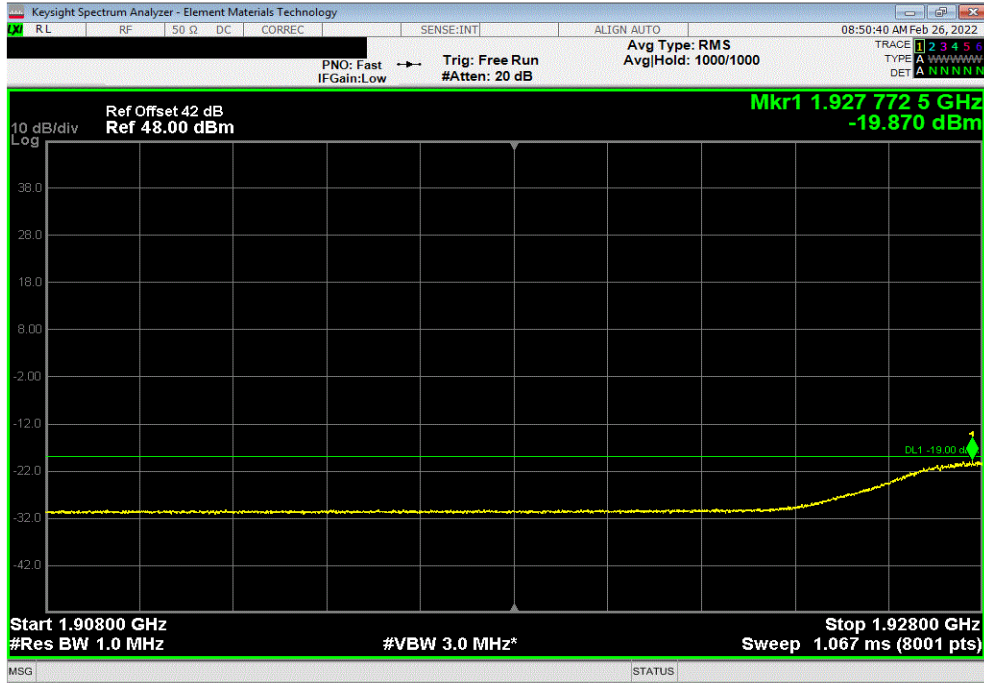


BAND EDGE COMPLIANCE

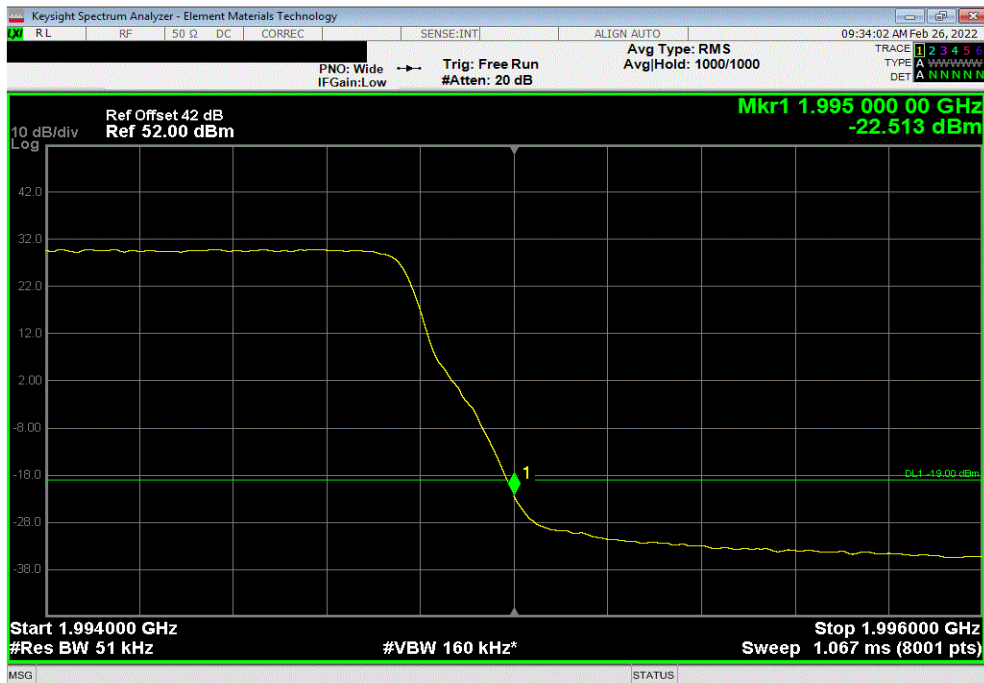


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.9	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.5	-19	Pass			

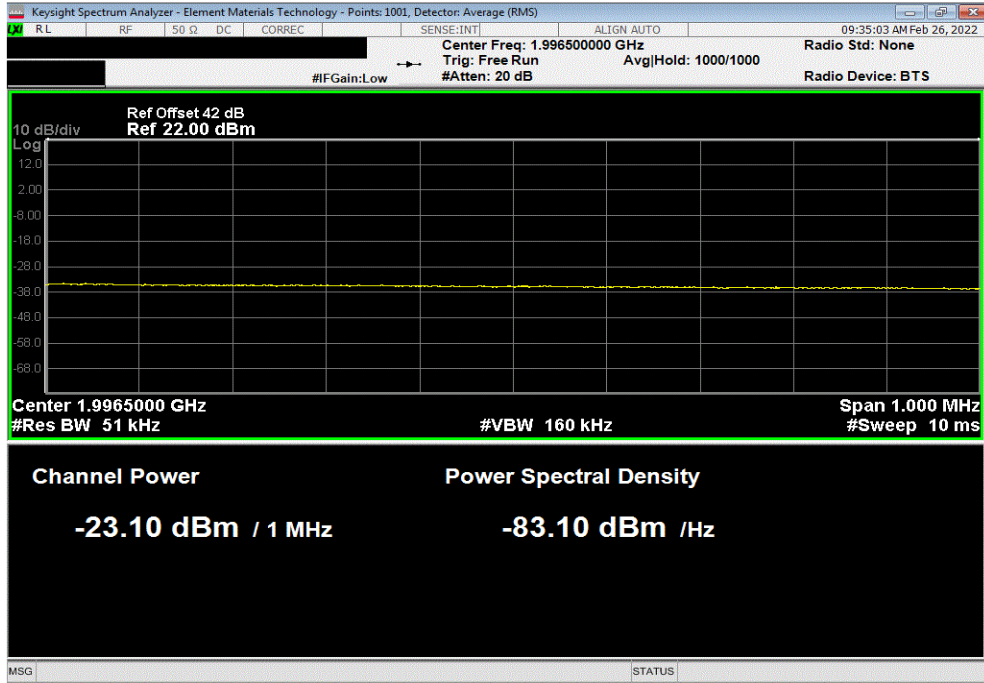


BAND EDGE COMPLIANCE

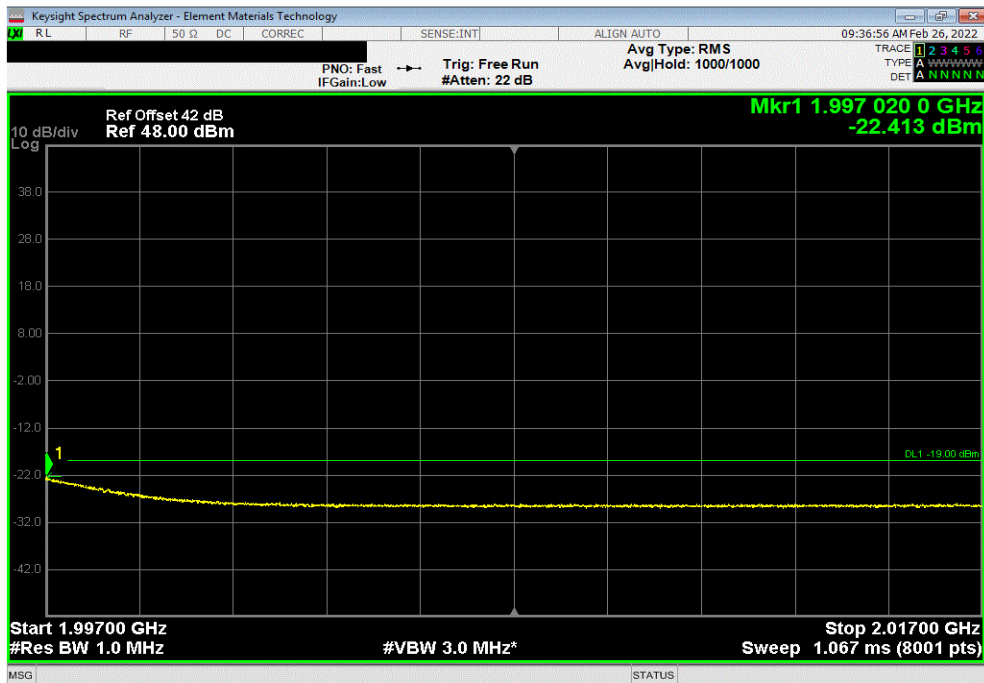


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.1	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.4	-19	Pass			

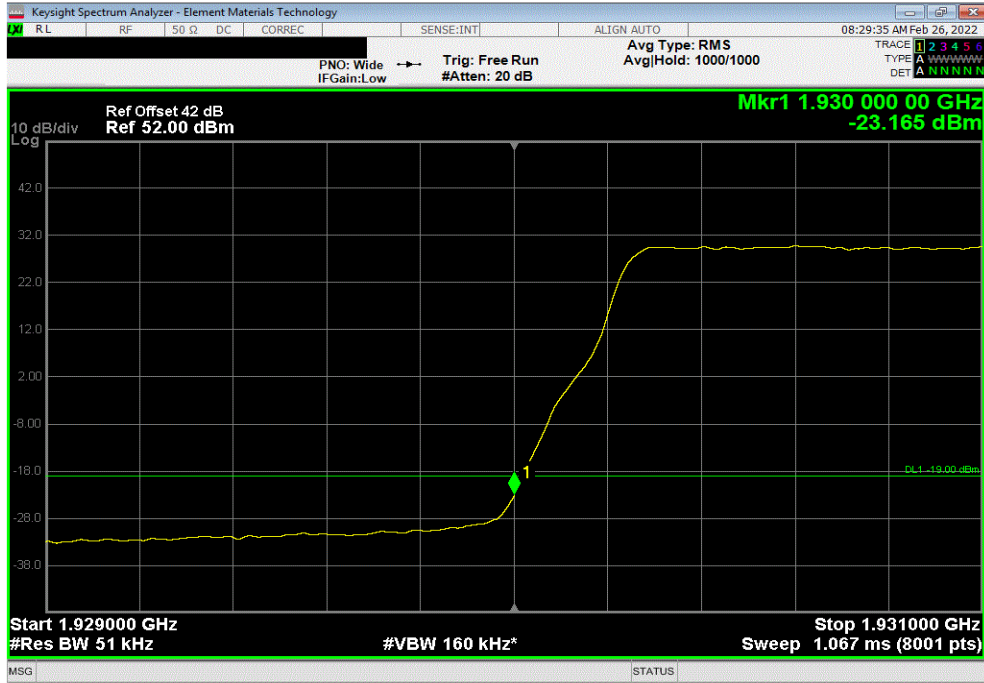


BAND EDGE COMPLIANCE

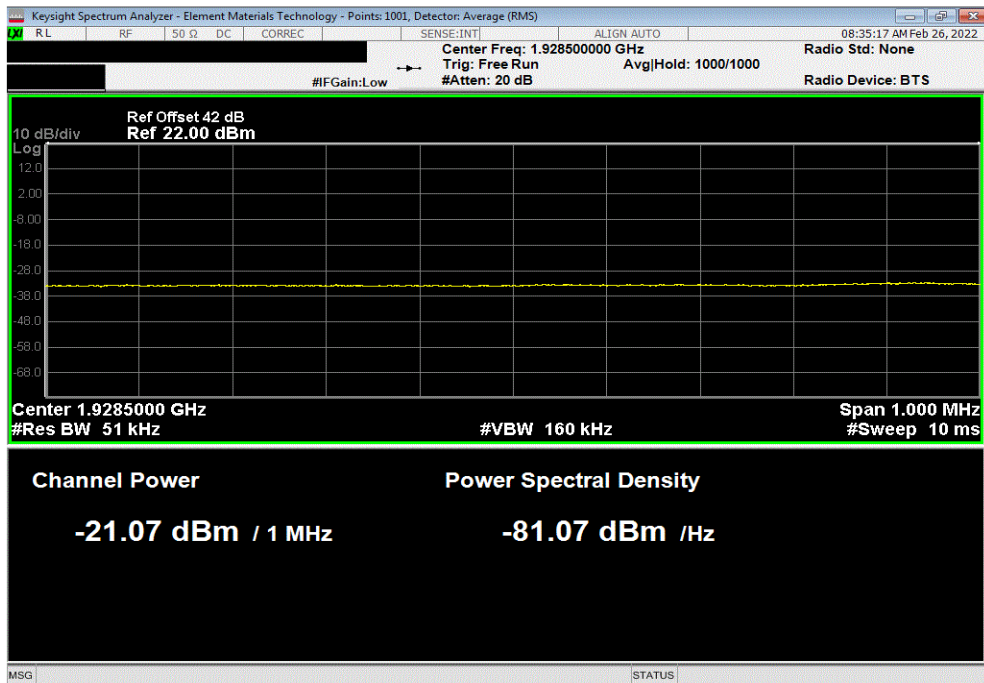


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.2	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.1	-19	Pass			

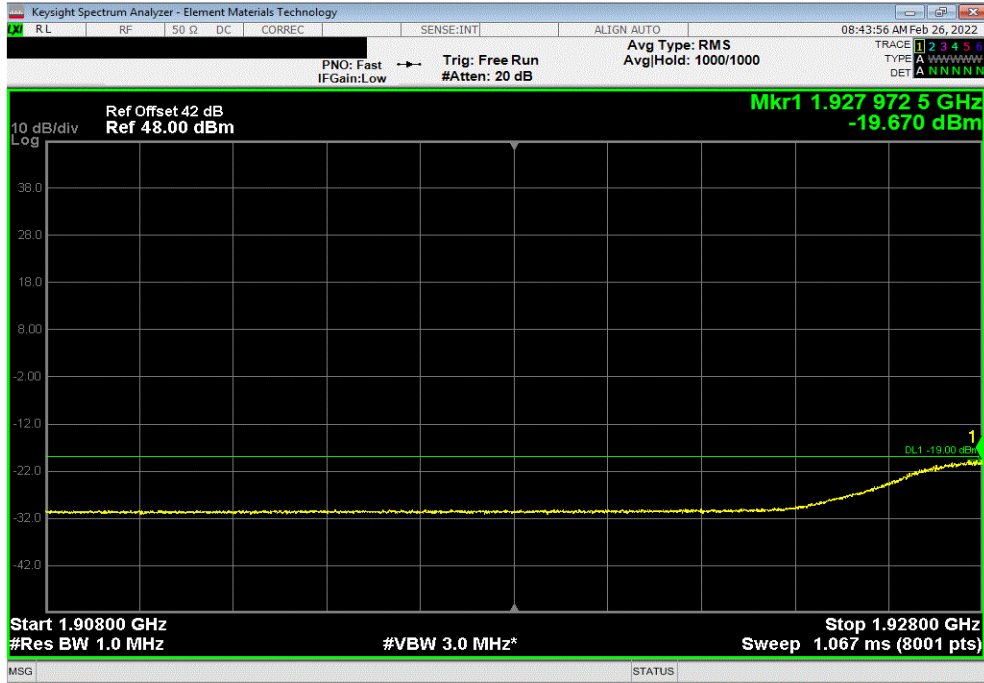


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-19.7	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Single Carrier, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.8	-19	Pass			

