

BAND EDGE COMPLIANCE



XMIT 2020.12.30.0

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
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

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 $[-10 \cdot \log(16)]$ dB to account for the device operation as a 16 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(h)(1), RSS-170 5.4 & 5.4.2.1 and RSS-139 6.6, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -25 dBm $[-13 \text{ dBm} - 10 \log(16)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 16 port MIMO transmitter.

Per 27.53(h)(3), RSS-170 5.4 and RSS-139 6.6, 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 (not from part 27 but from TCB Meeting/TCB Correspondence on other testing). 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.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AAIB) as the original certification test. The AAIB 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.

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TRF7x 2021.03.19.1 XMR 2020.12.30.0

EUT: AAIB (FCC/ISED C2PC)		Work Order: NOKI0030			
Serial Number: BL2032123Y0		Date: 21-Jul-21			
Customer: Nokia Solutions and Networks		Temperature: 21.5 °C			
Attendees: David Le, Mitchell Hill		Humidity: 51.4% RH			
Project: None		Barometric Pres.: 1021 mbar			
Tested by: Brandon Hobbs		Job Site: TX09			
Power: 54 VDC					
TEST SPECIFICATIONS		Test Method			
FCC 27:2021		ANSI C63.26:2015			
RSS-139 Issue 3:2015, RSS-170 Issue 3:2015		RSS-139 Issue 3:2015, RSS-170 Issue 3:2015			
COMMENTS					
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks.Band n66 carriers are enabled at maximum power (6.25 watts/carrier). Some measurement 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 			
		Frequency Range	Max Value (dBm)	Limit (dBm)	Result
Port 1, Band n66, 2110 MHz - 2200 MHz					
5 MHz Bandwidth					
QPSK Modulation					
	Low Channel 2112.5 MHz	1	-37.16	-25	Pass
	Low Channel 2112.5 MHz	2	-30.52	-25	Pass
	Low Channel 2112.5 MHz	3	-30.22	-25	Pass
	High Channel 2197.5 MHz	1	-35.72	-25	Pass
	High Channel 2197.5 MHz	2	-29.29	-25	Pass
	High Channel 2197.5 MHz	3	-29.60	-25	Pass
16-QAM Modulation					
	Low Channel 2112.5 MHz	1	-37.22	-25	Pass
	Low Channel 2112.5 MHz	2	-30.48	-25	Pass
	Low Channel 2112.5 MHz	3	-30.00	-25	Pass
	High Channel 2197.5 MHz	1	-35.93	-25	Pass
	High Channel 2197.5 MHz	2	-29.84	-25	Pass
	High Channel 2197.5 MHz	3	-29.44	-25	Pass
64-QAM Modulation					
	Low Channel 2112.5 MHz	1	-37.71	-25	Pass
	Low Channel 2112.5 MHz	2	-30.43	-25	Pass
	Low Channel 2112.5 MHz	3	-29.78	-25	Pass
	High Channel 2197.5 MHz	1	-35.86	-25	Pass
	High Channel 2197.5 MHz	2	-29.51	-25	Pass
	High Channel 2197.5 MHz	3	-29.58	-25	Pass
256-QAM Modulation					
	Low Channel 2112.5 MHz	1	-37.04	-25	Pass
	Low Channel 2112.5 MHz	2	-30.43	-25	Pass
	Low Channel 2112.5 MHz	3	-30.16	-25	Pass
	High Channel 2197.5 MHz	1	-35.96	-25	Pass
	High Channel 2197.5 MHz	2	-29.64	-25	Pass
	High Channel 2197.5 MHz	3	-29.51	-25	Pass
10 MHz Bandwidth					
QPSK Modulation					
	Low Channel 2115 MHz	1	-36.78	-25	Pass
	Low Channel 2115 MHz	2	-30.59	-25	Pass
	Low Channel 2115 MHz	3	-30.32	-25	Pass
	High Channel 2195 MHz	1	-35.67	-25	Pass
	High Channel 2195 MHz	2	-30.03	-25	Pass
	High Channel 2195 MHz	3	-29.70	-25	Pass
16-QAM Modulation					
	Low Channel 2115 MHz	1	-36.26	-25	Pass
	Low Channel 2115 MHz	2	-30.61	-25	Pass
	Low Channel 2115 MHz	3	-30.26	-25	Pass
	High Channel 2195 MHz	1	-36.97	-25	Pass
	High Channel 2195 MHz	2	-30.03	-25	Pass
	High Channel 2195 MHz	3	-29.55	-25	Pass
64-QAM Modulation					
	Low Channel 2115 MHz	1	-37.01	-25	Pass
	Low Channel 2115 MHz	2	-30.78	-25	Pass
	Low Channel 2115 MHz	3	-30.21	-25	Pass
	High Channel 2195 MHz	1	-35.92	-25	Pass
	High Channel 2195 MHz	2	-29.96	-25	Pass
	High Channel 2195 MHz	3	-29.48	-25	Pass
256-QAM Modulation					
	Low Channel 2115 MHz	1	-36.47	-25	Pass
	Low Channel 2115 MHz	2	-30.76	-25	Pass
	Low Channel 2115 MHz	3	-30.31	-25	Pass
	High Channel 2195 MHz	1	-36.11	-25	Pass
	High Channel 2195 MHz	2	-29.94	-25	Pass
	High Channel 2195 MHz	3	-29.95	-25	Pass
15 MHz Bandwidth					
QPSK Modulation					
	Low Channel 2117.5 MHz	1	-33.94	-25	Pass
	Low Channel 2117.5 MHz	2	-30.61	-25	Pass
	Low Channel 2117.5 MHz	3	-30.08	-25	Pass
	High Channel 2192.5 MHz	1	-33.23	-25	Pass
	High Channel 2192.5 MHz	2	-29.94	-25	Pass
	High Channel 2192.5 MHz	3	-29.48	-25	Pass
16-QAM Modulation					
	Low Channel 2117.5 MHz	1	-33.87	-25	Pass
	Low Channel 2117.5 MHz	2	-30.53	-25	Pass
	Low Channel 2117.5 MHz	3	-30.29	-25	Pass
	High Channel 2192.5 MHz	1	-32.23	-25	Pass
	High Channel 2192.5 MHz	2	-29.93	-25	Pass
	High Channel 2192.5 MHz	3	-29.53	-25	Pass
64-QAM Modulation					
	Low Channel 2117.5 MHz	1	-33.66	-25	Pass
	Low Channel 2117.5 MHz	2	-30.63	-25	Pass

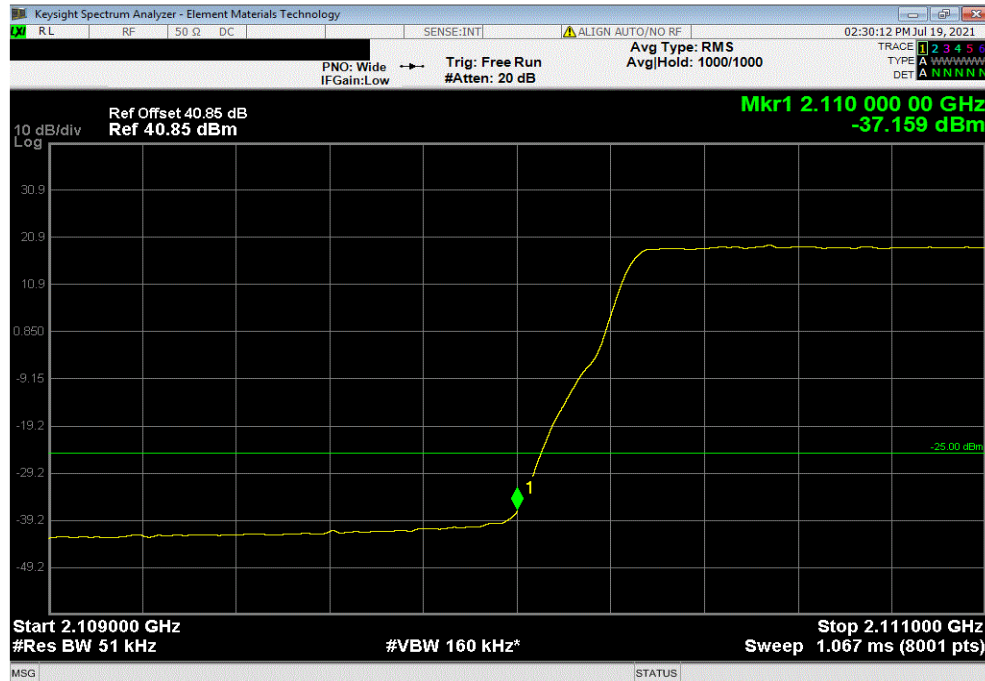
Low Channel 2117.5 MHz	3	-30.28	-25	Pass
High Channel 2192.5 MHz	1	-33.10	-25	Pass
High Channel 2192.5 MHz	2	-29.96	-25	Pass
High Channel 2192.5 MHz	3	-29.69	-25	Pass
256-QAM Modulation				
Low Channel 2117.5 MHz	1	-33.98	-25	Pass
Low Channel 2117.5 MHz	2	-30.63	-25	Pass
Low Channel 2117.5 MHz	3	-30.39	-25	Pass
High Channel 2192.5 MHz	1	-33.23	-25	Pass
High Channel 2192.5 MHz	2	-29.94	-25	Pass
High Channel 2192.5 MHz	3	-29.58	-25	Pass
20 MHz Bandwidth				
QPSK Modulation				
Low Channel 2120 MHz	1	-30.92	-25	Pass
Low Channel 2120 MHz	2	-30.68	-25	Pass
Low Channel 2120 MHz	3	-30.48	-25	Pass
High Channel 2190 MHz	1	-31.05	-25	Pass
High Channel 2190 MHz	2	-30.18	-25	Pass
High Channel 2190 MHz	3	-29.58	-25	Pass
16-QAM Modulation				
Low Channel 2120 MHz	1	-31.11	-25	Pass
Low Channel 2120 MHz	2	-30.77	-25	Pass
Low Channel 2120 MHz	3	-30.27	-25	Pass
High Channel 2190 MHz	1	-29.90	-25	Pass
High Channel 2190 MHz	2	-30.17	-25	Pass
High Channel 2190 MHz	3	-29.52	-25	Pass
64-QAM Modulation				
Low Channel 2120 MHz	1	-31.64	-25	Pass
Low Channel 2120 MHz	2	-30.83	-25	Pass
Low Channel 2120 MHz	3	-30.35	-25	Pass
High Channel 2190 MHz	1	-30.24	-25	Pass
High Channel 2190 MHz	2	-30.16	-25	Pass
High Channel 2190 MHz	3	-29.47	-25	Pass
256-QAM Modulation				
Low Channel 2120 MHz	1	-31.08	-25	Pass
Low Channel 2120 MHz	2	-30.81	-25	Pass
Low Channel 2120 MHz	3	-30.23	-25	Pass
High Channel 2190 MHz	1	-30.63	-25	Pass
High Channel 2190 MHz	2	-30.18	-25	Pass
High Channel 2190 MHz	3	-29.61	-25	Pass

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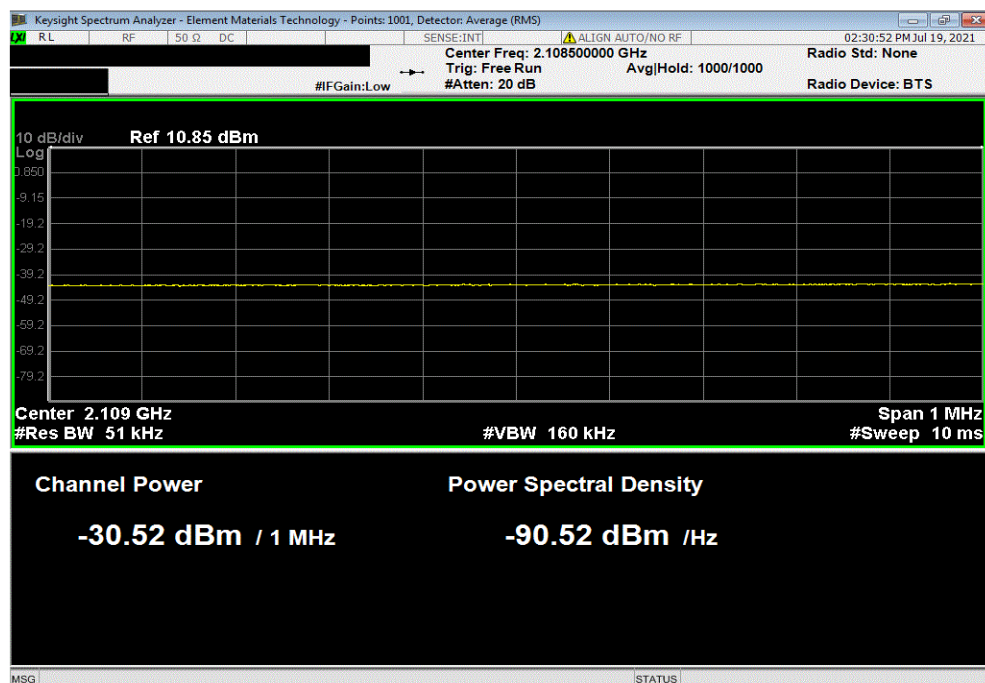


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37.16		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.52		-25		Pass

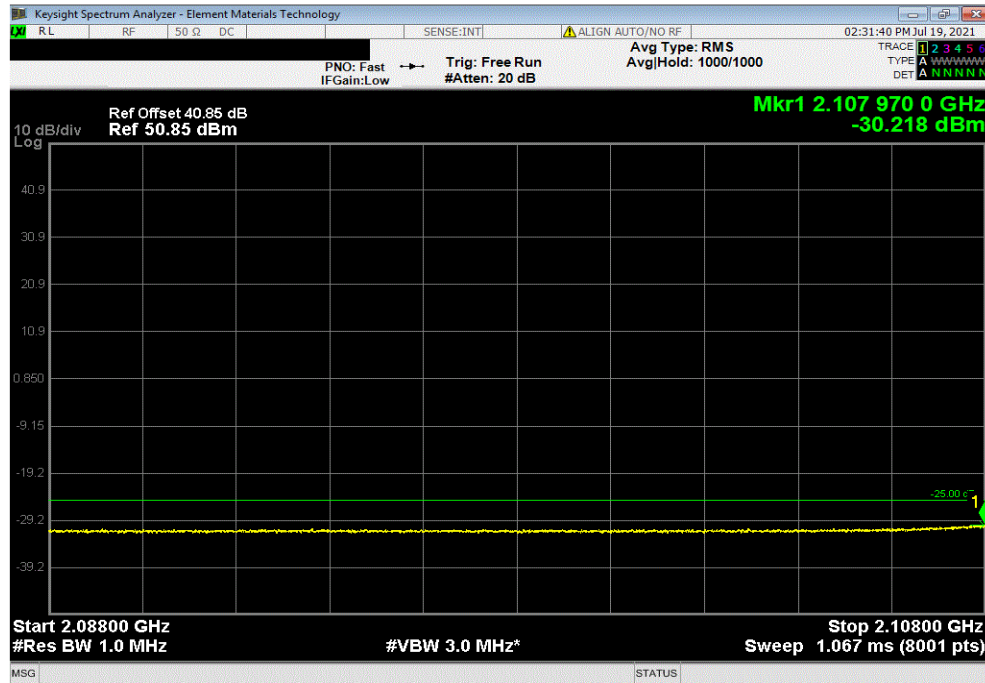


BAND EDGE COMPLIANCE

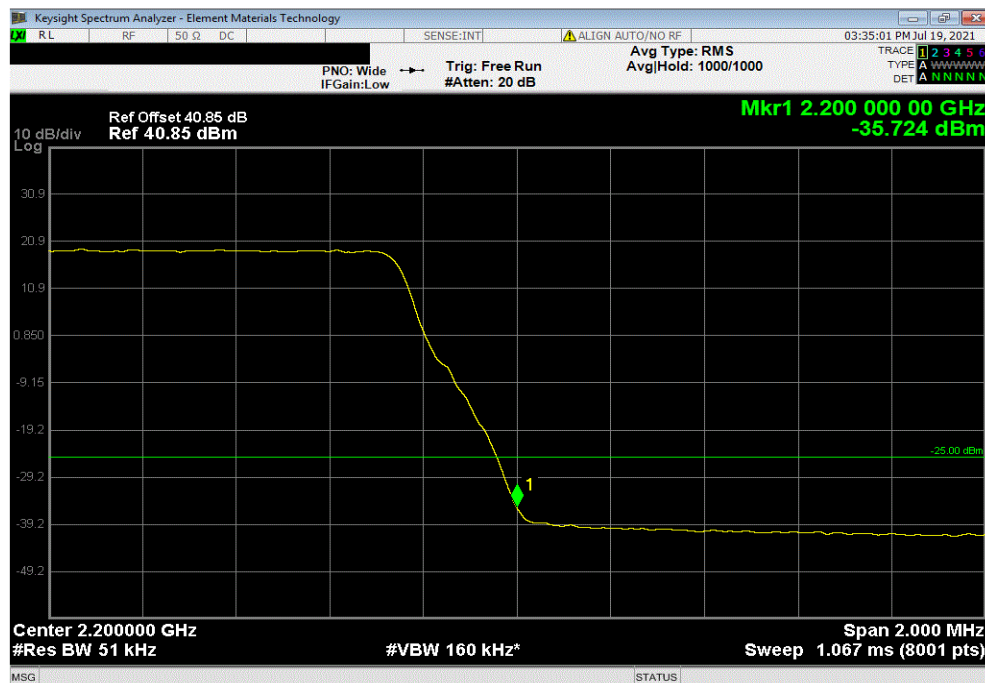


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.22	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-35.72	-25	Pass			

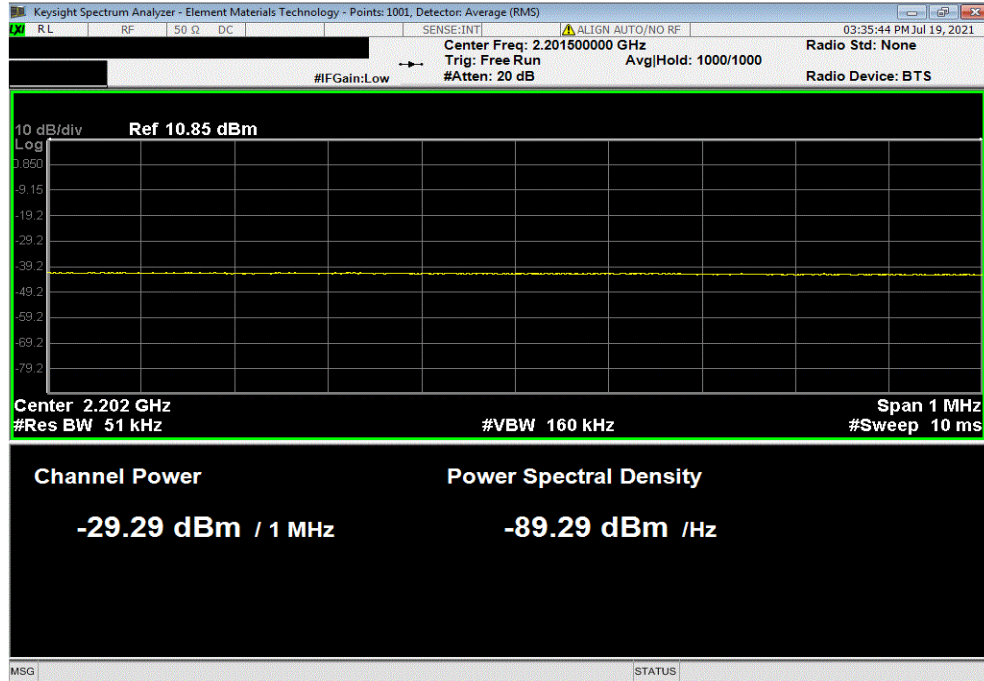


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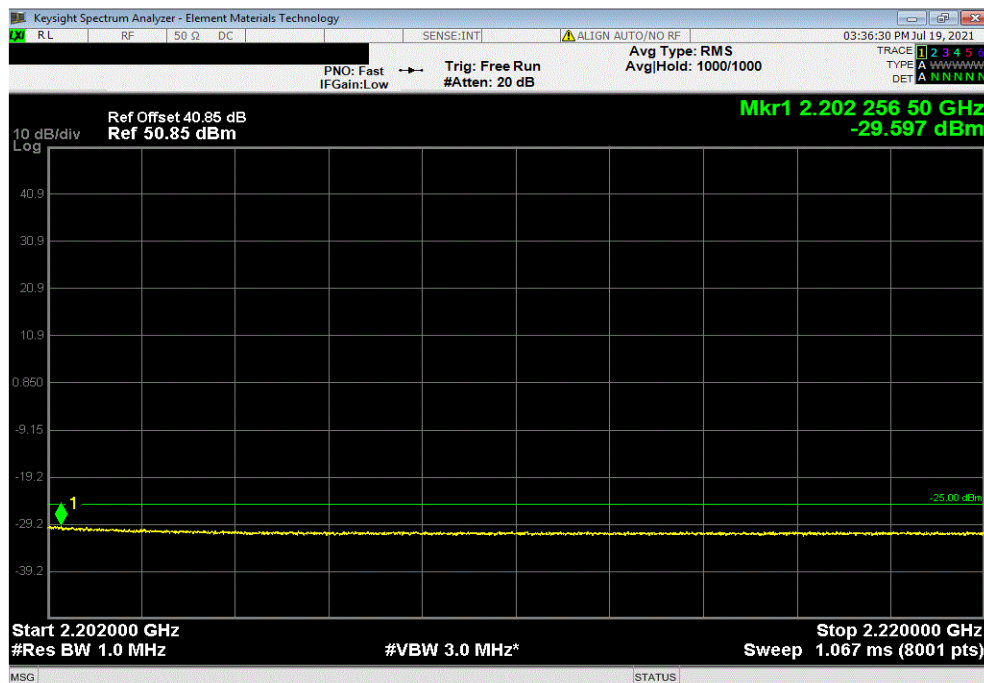


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.29	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.60	-25	Pass			

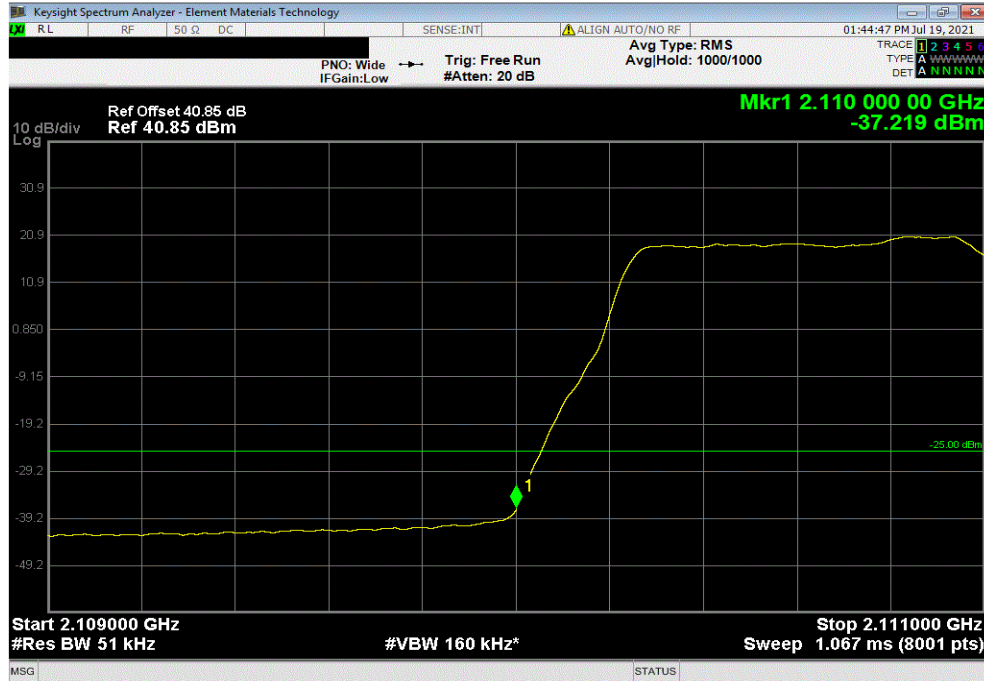


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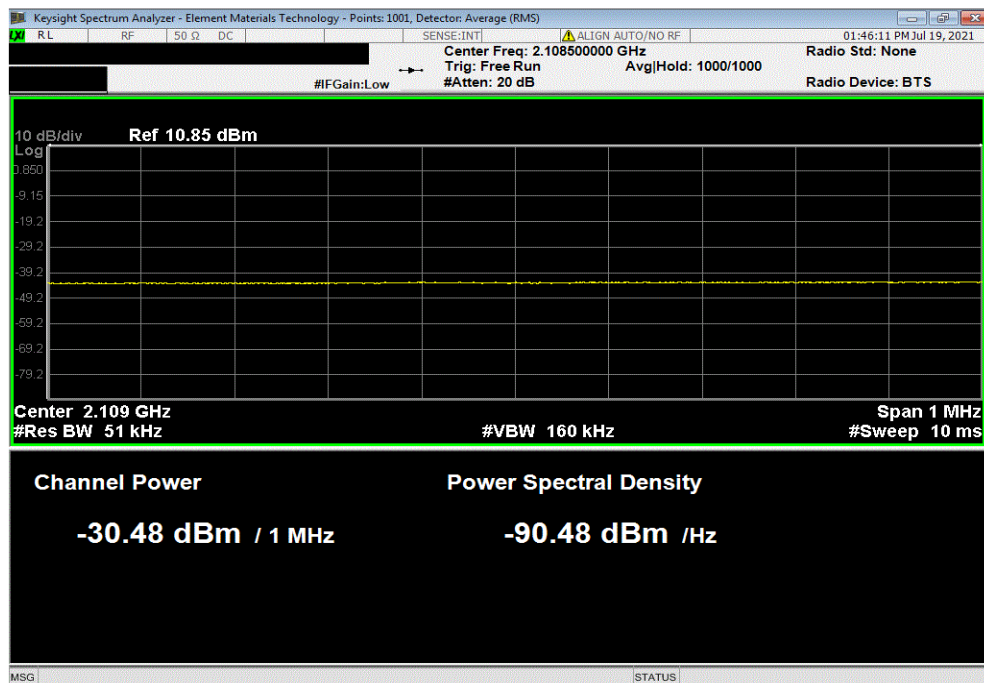


TbTx 2021.03.19.1 XMR 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37.22		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.48		-25		Pass

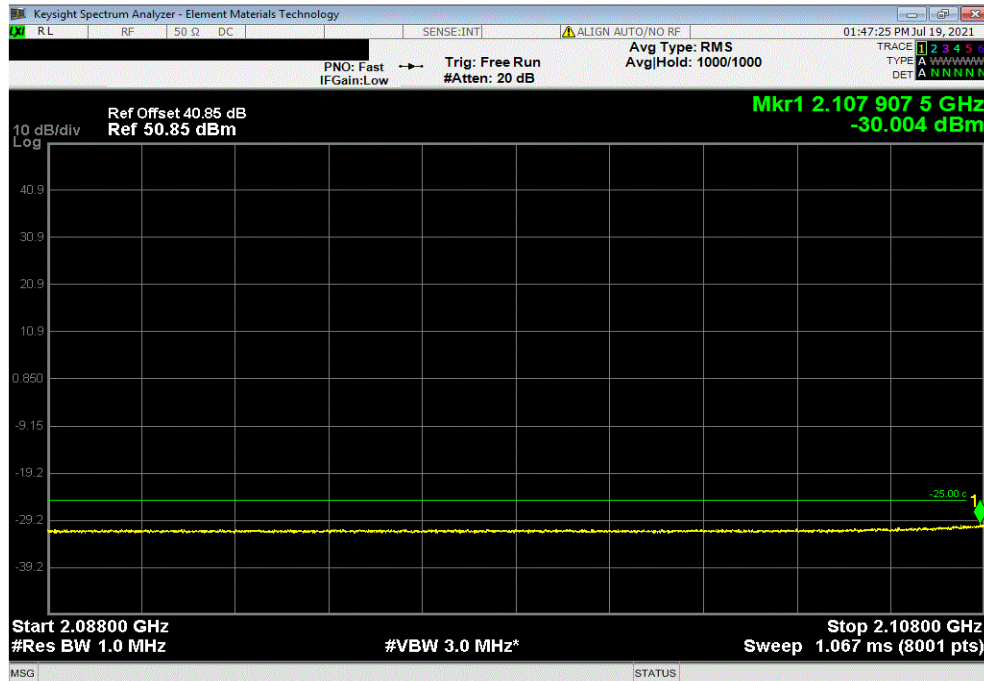


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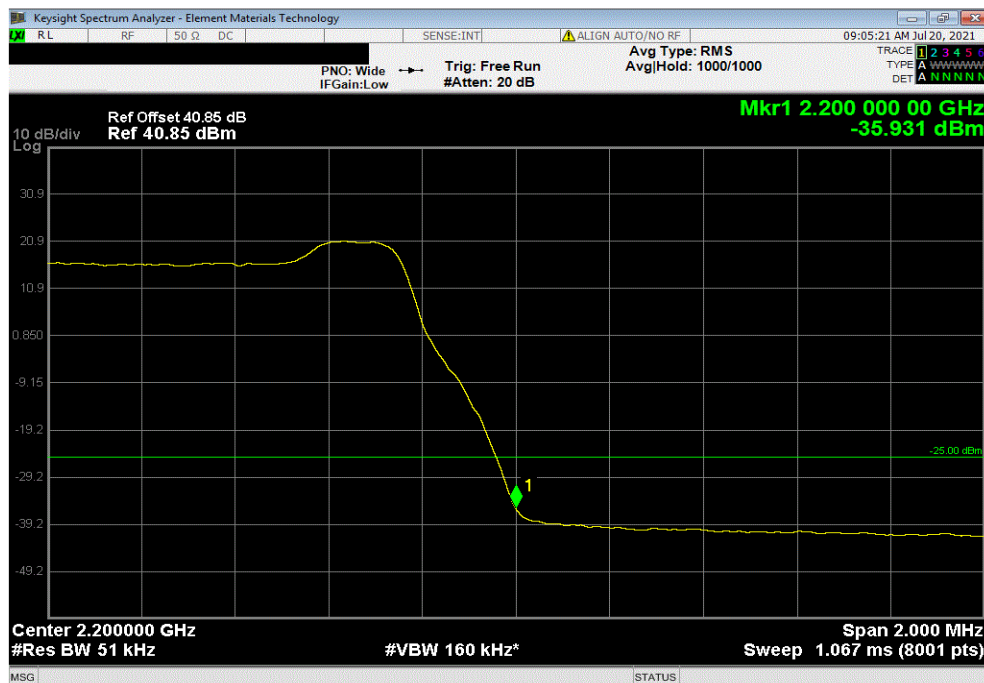


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.00		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-35.93		-25		Pass

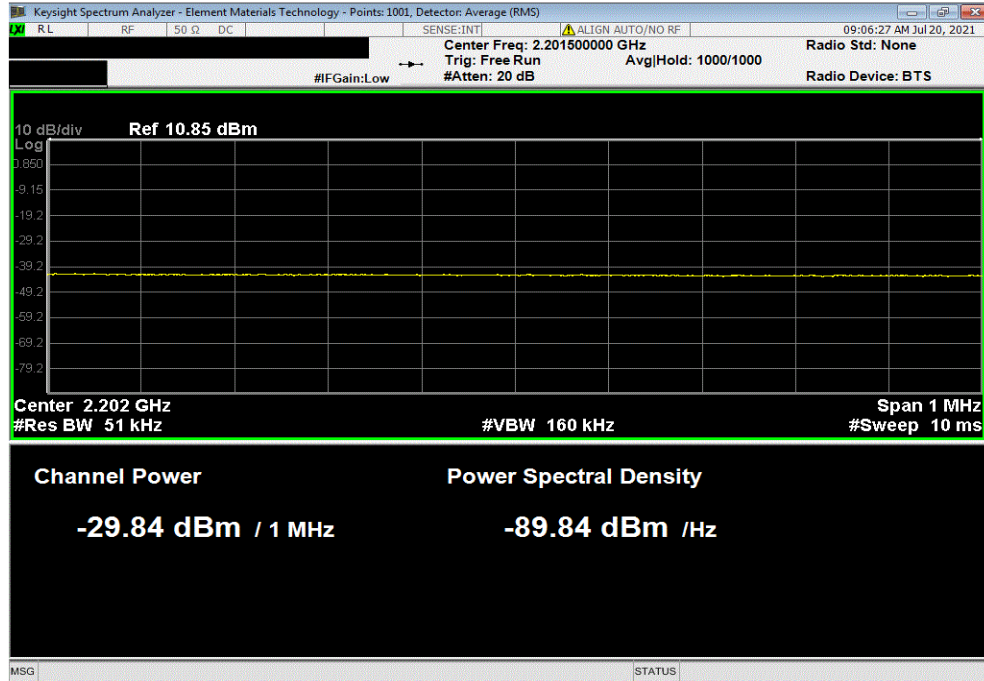


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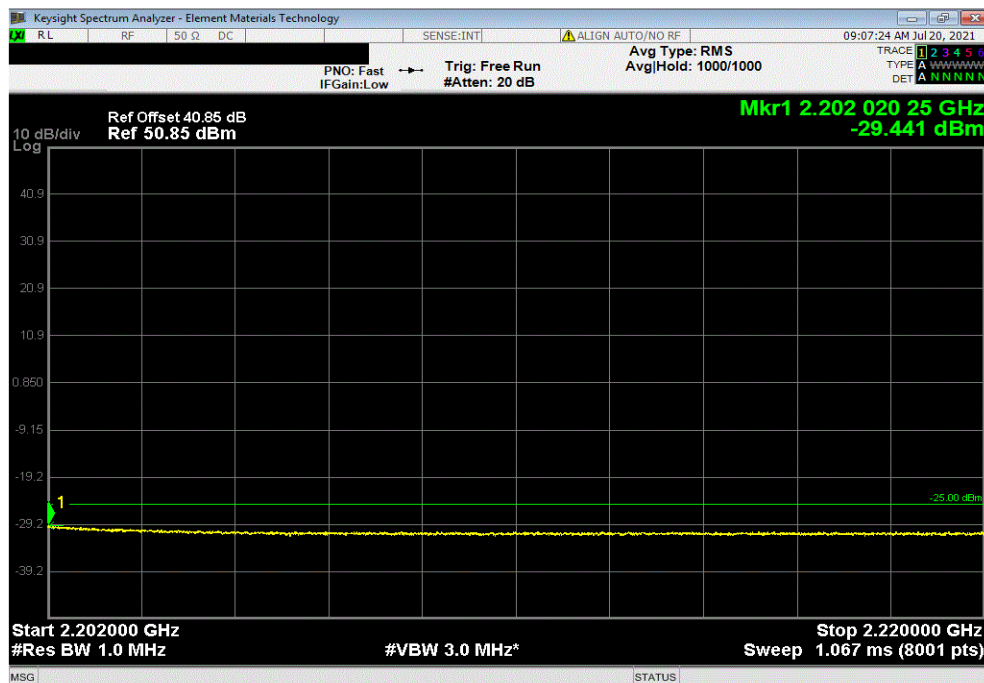


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.84	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.44	-25	Pass			

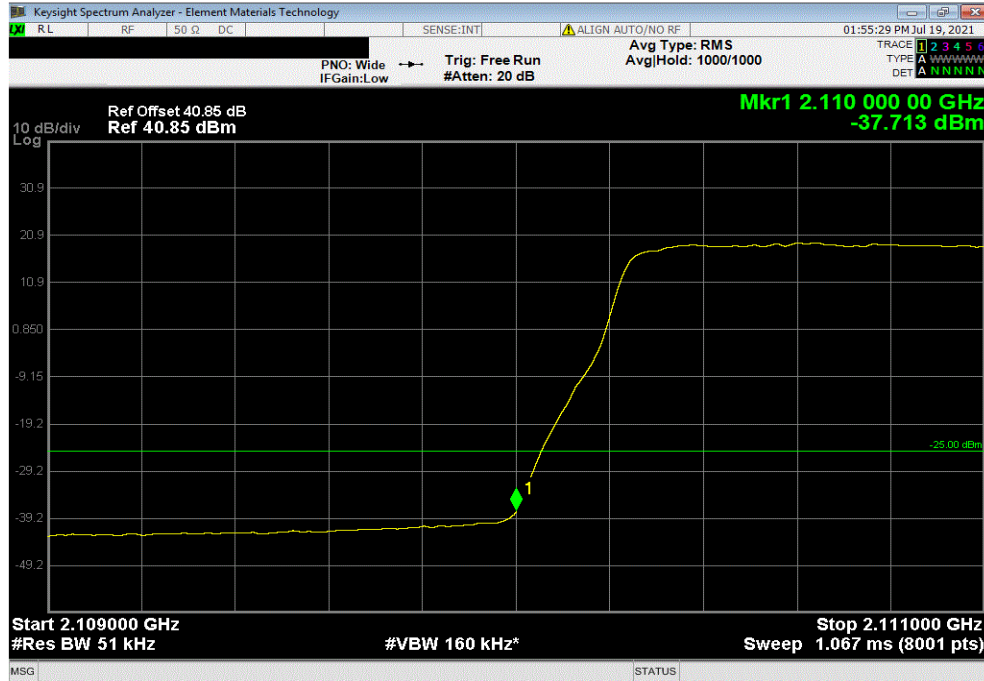


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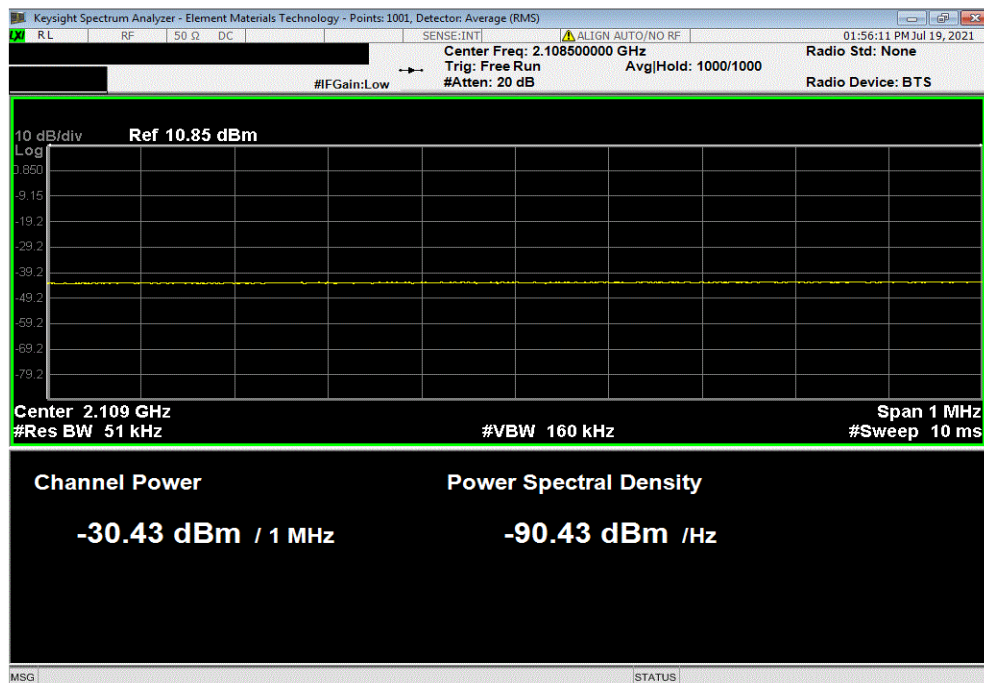


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37.71		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.43		-25		Pass

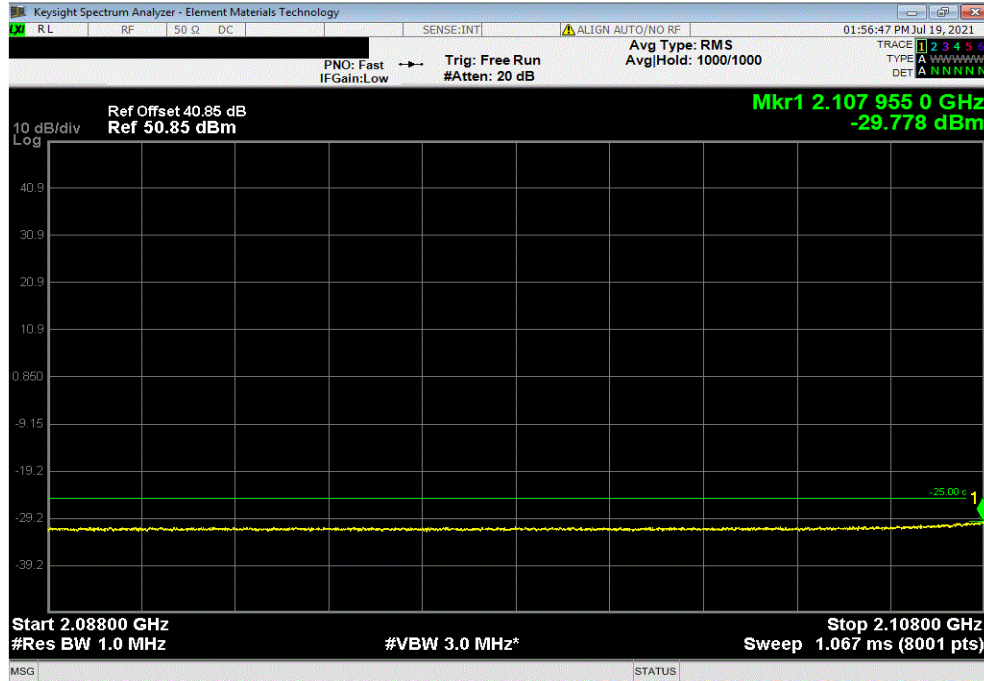


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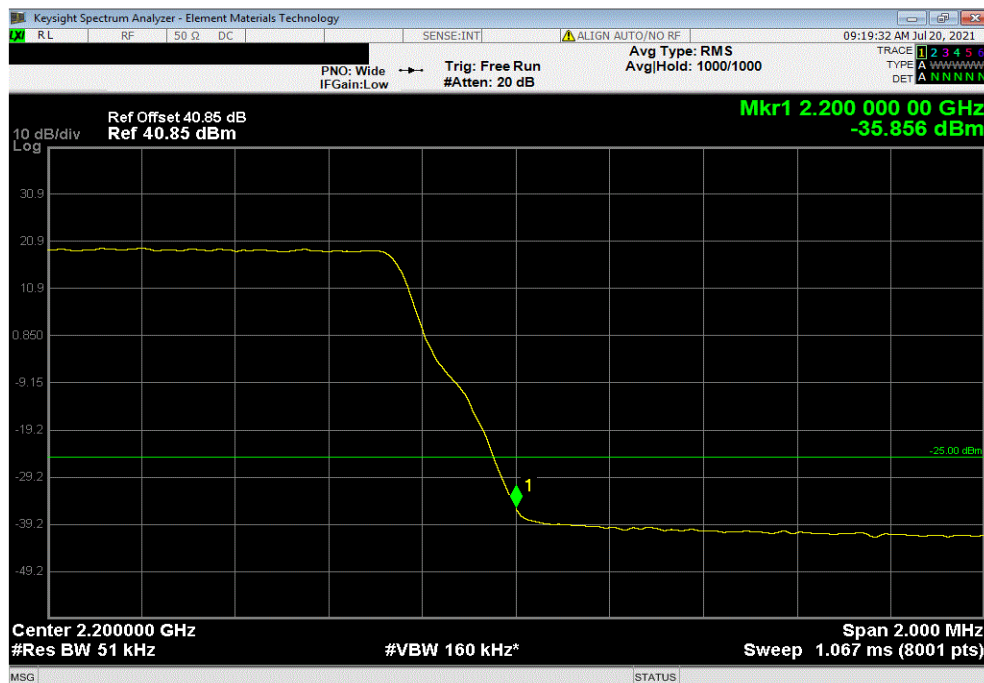


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.78	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-35.86	-25	Pass			

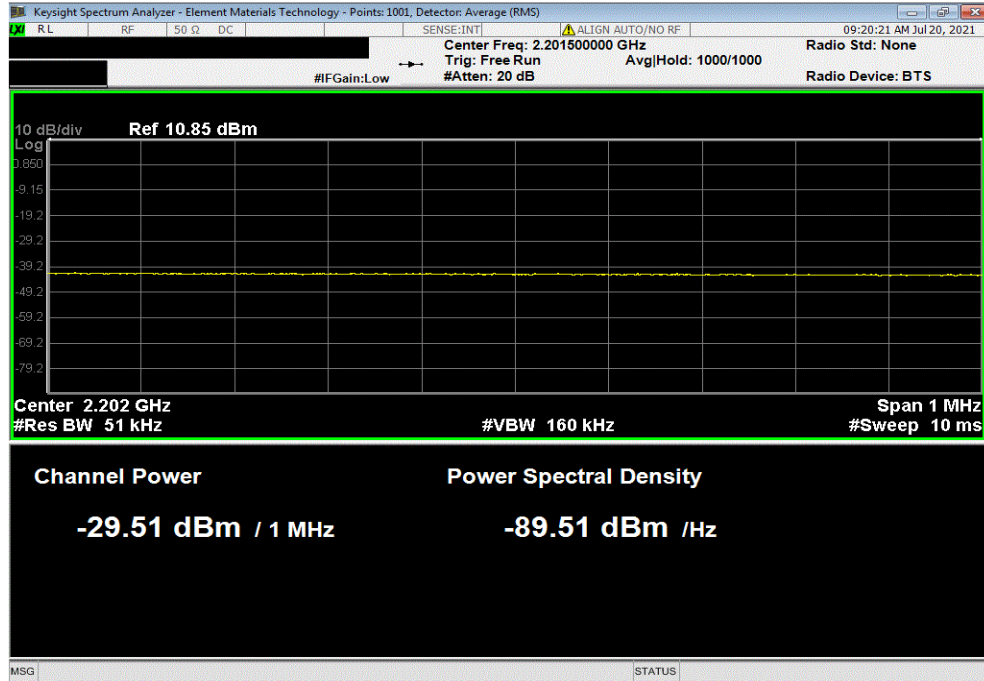


BAND EDGE COMPLIANCE

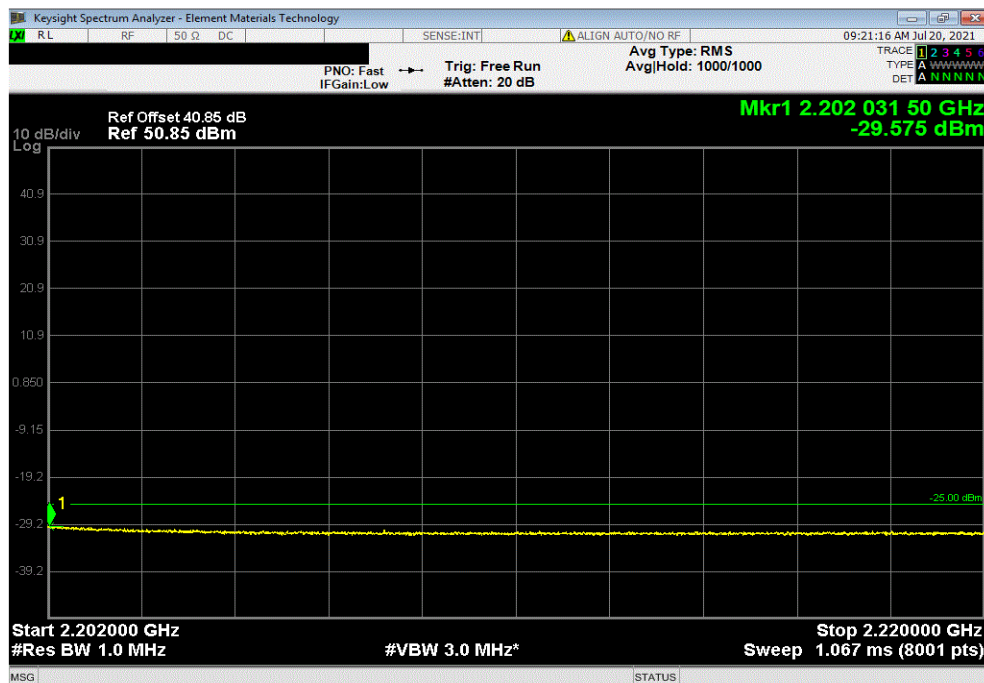


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.51	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.58	-25	Pass			

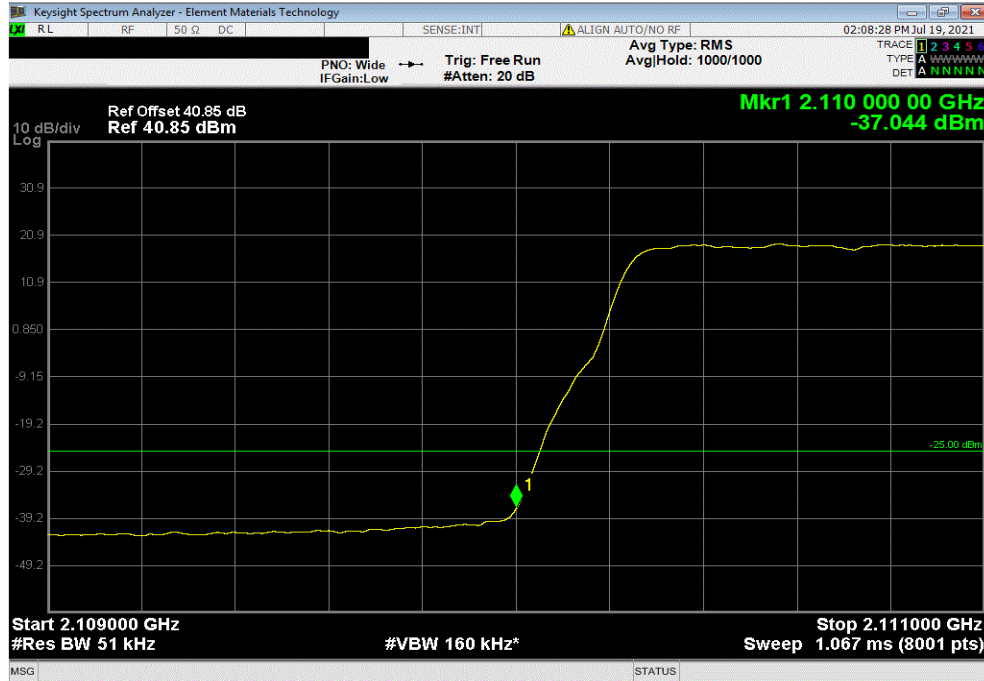


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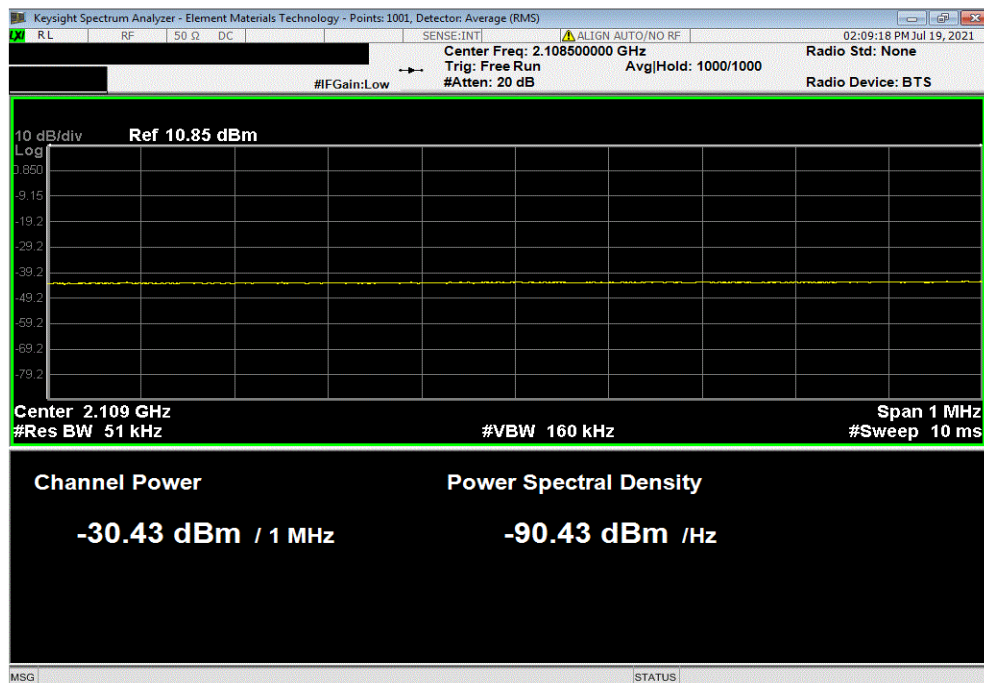


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-37.04		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.43		-25		Pass

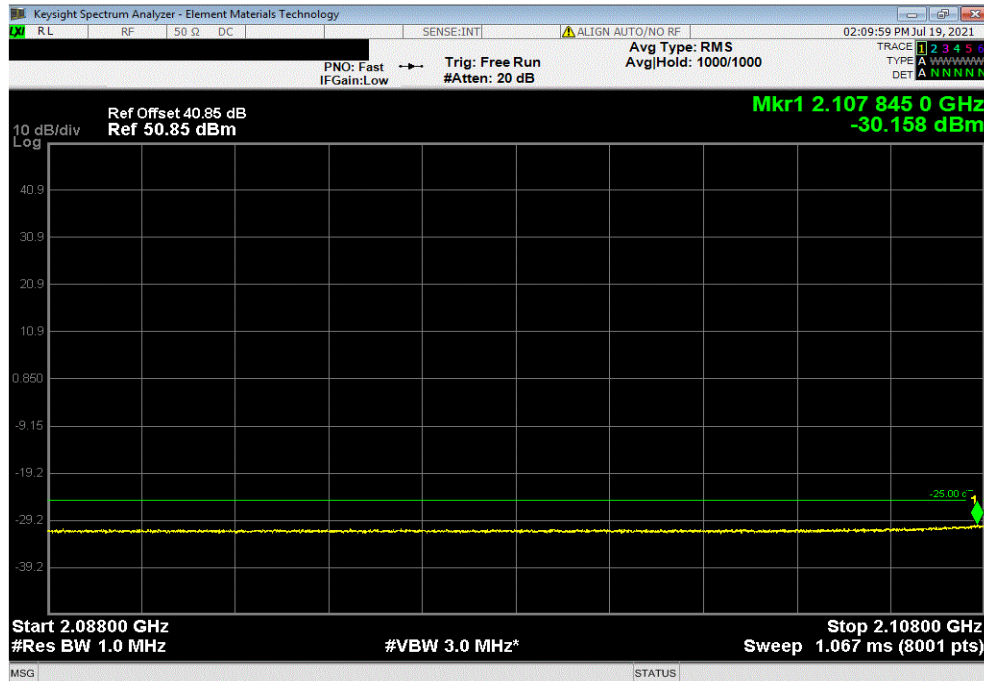


BAND EDGE COMPLIANCE

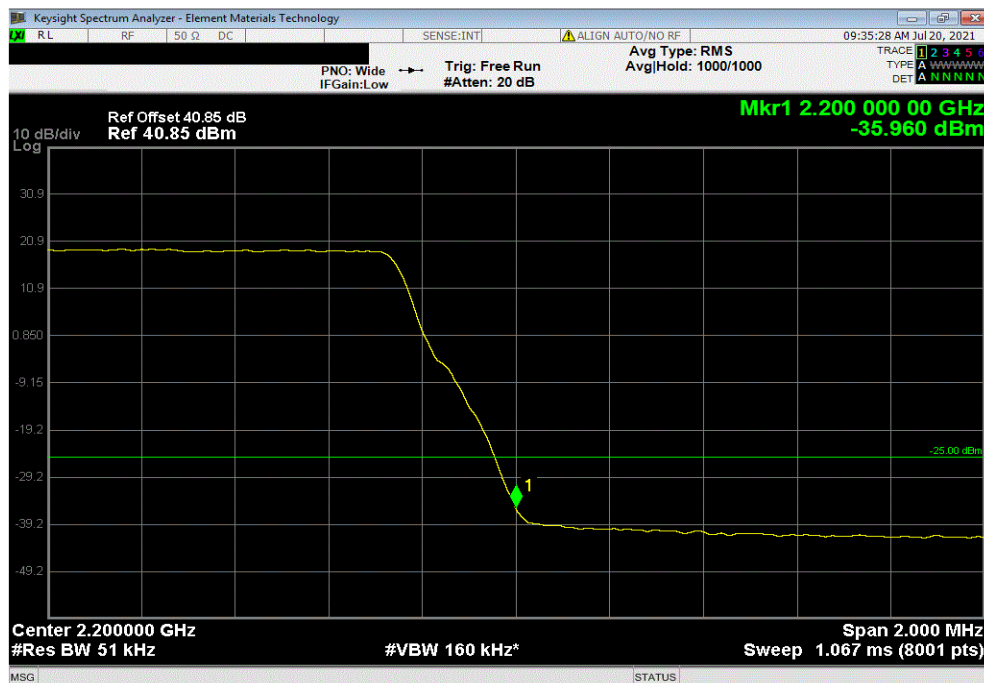


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.16	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-35.96	-25	Pass			

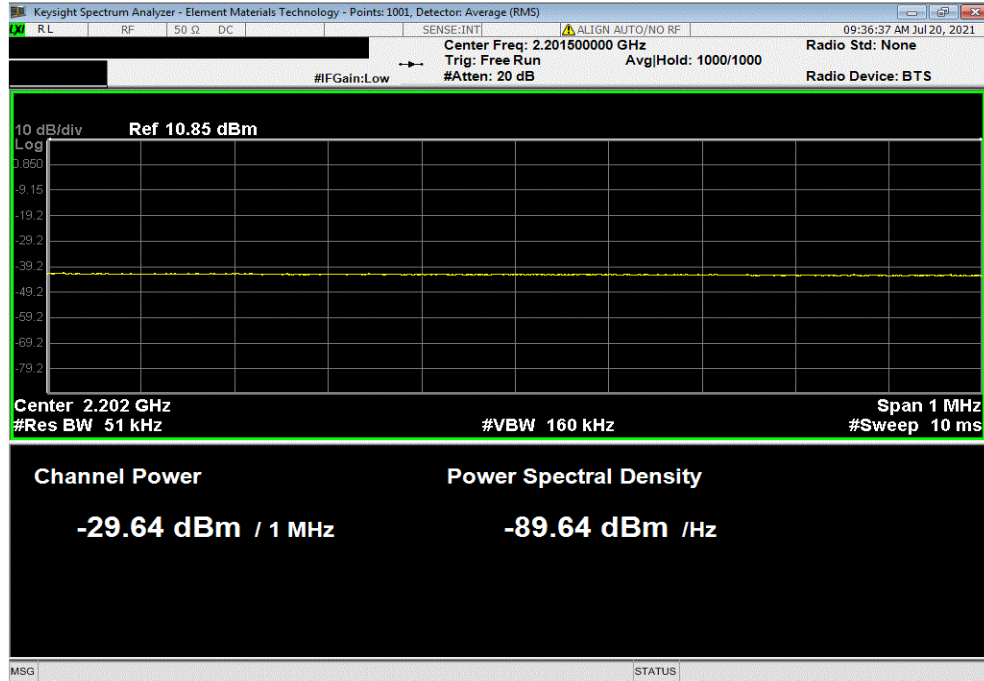


BAND EDGE COMPLIANCE

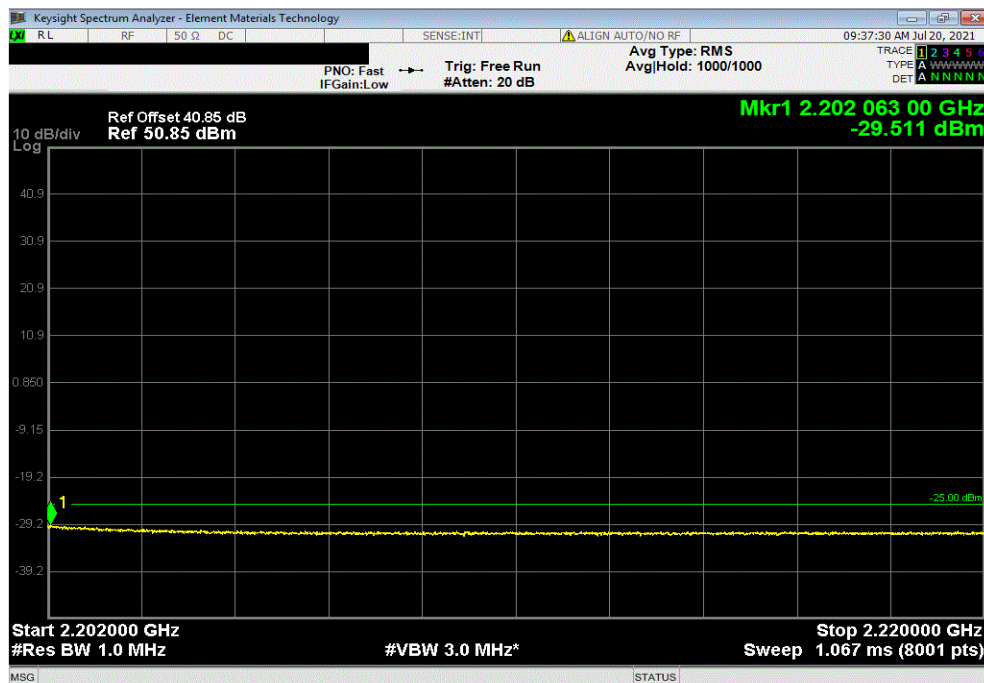


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.64	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.51	-25	Pass			

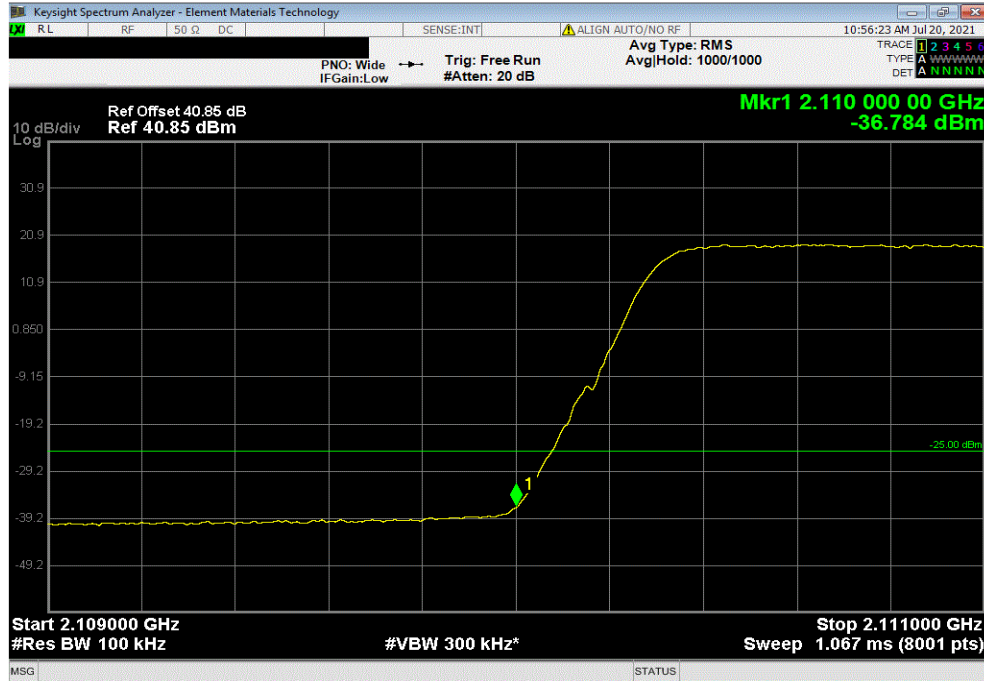


BAND EDGE COMPLIANCE

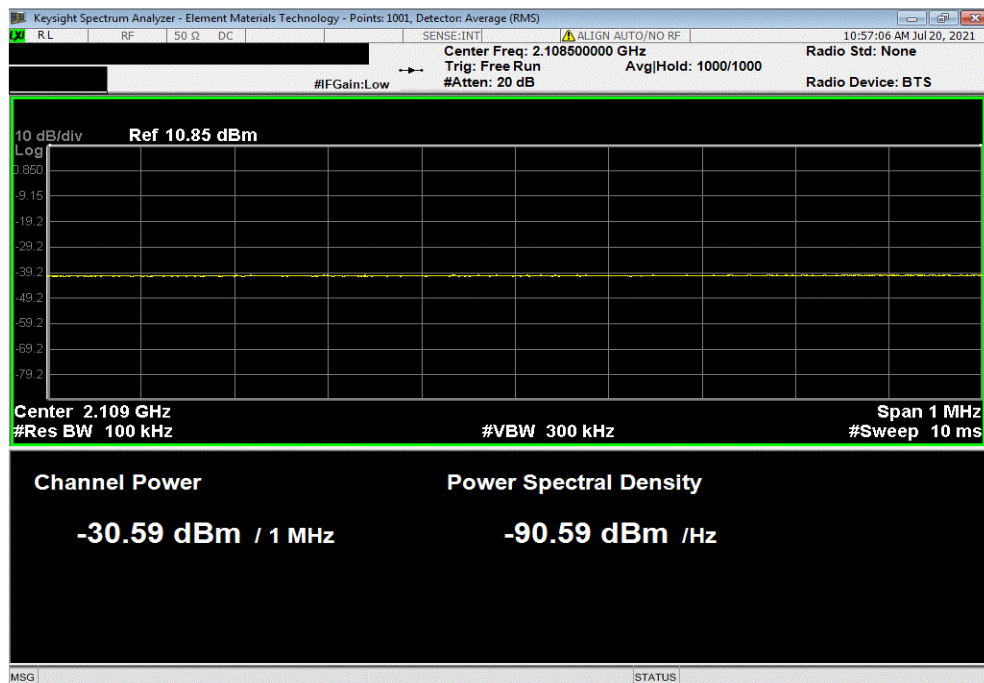


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-36.78		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.59		-25		Pass

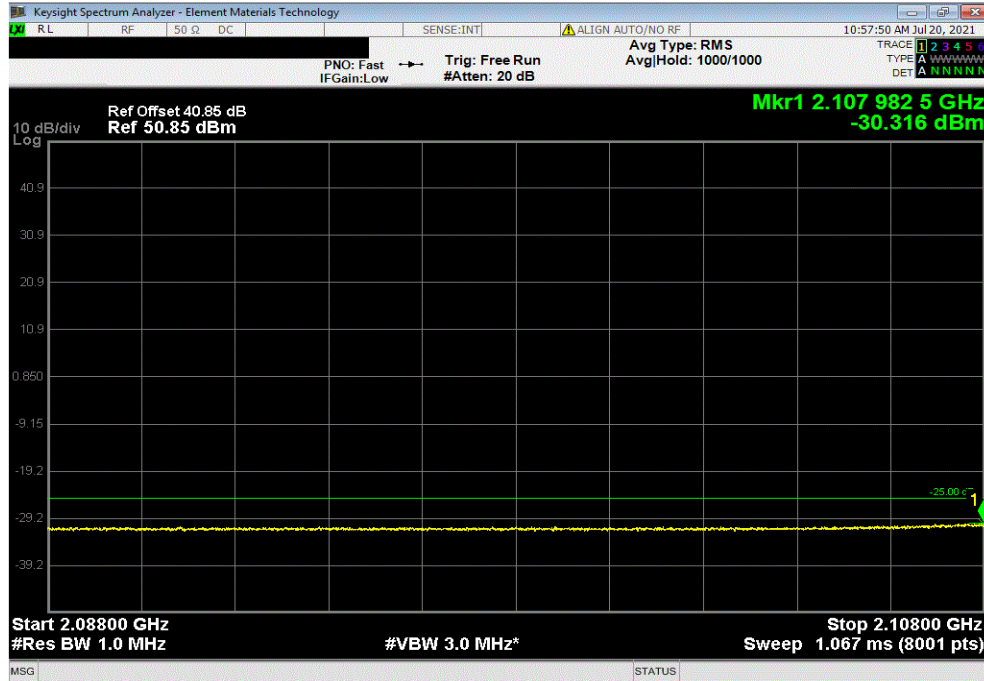


BAND EDGE COMPLIANCE

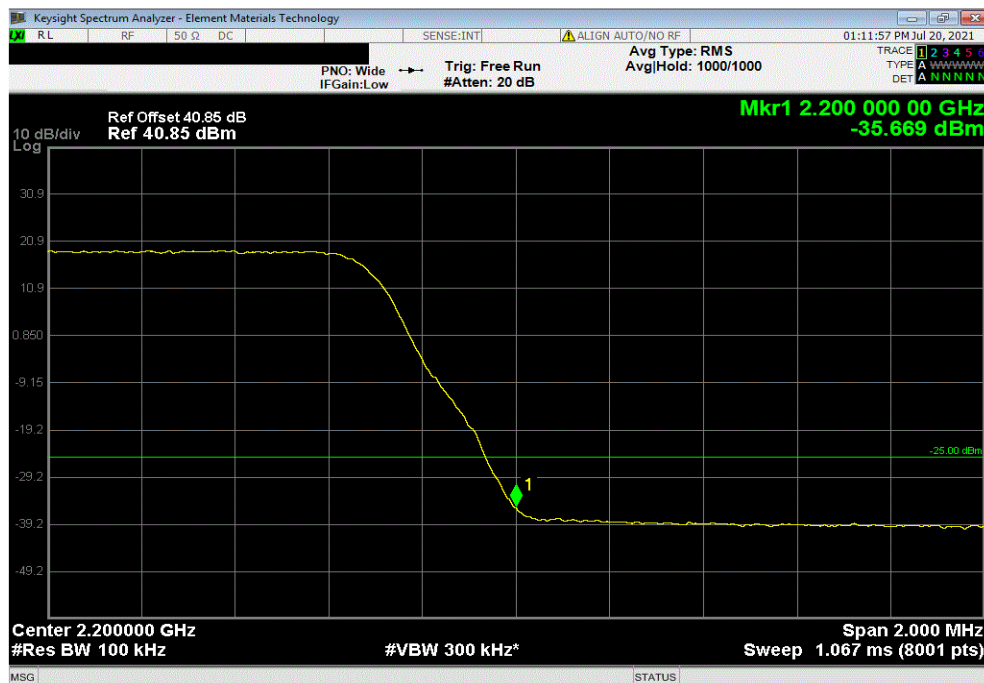


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.32		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2195 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-35.67		-25		Pass

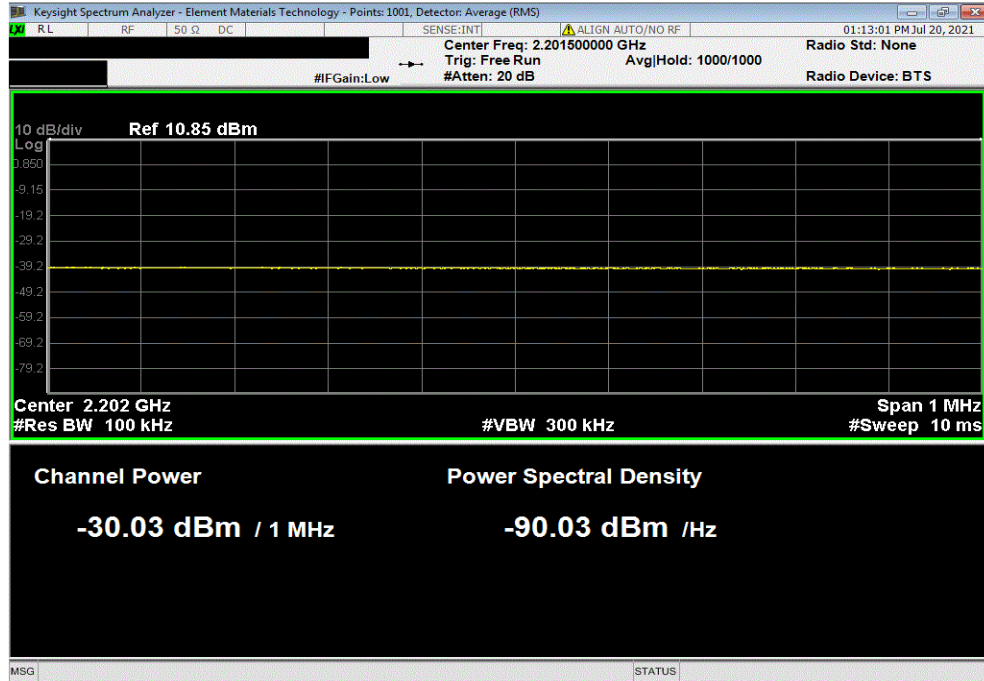


BAND EDGE COMPLIANCE

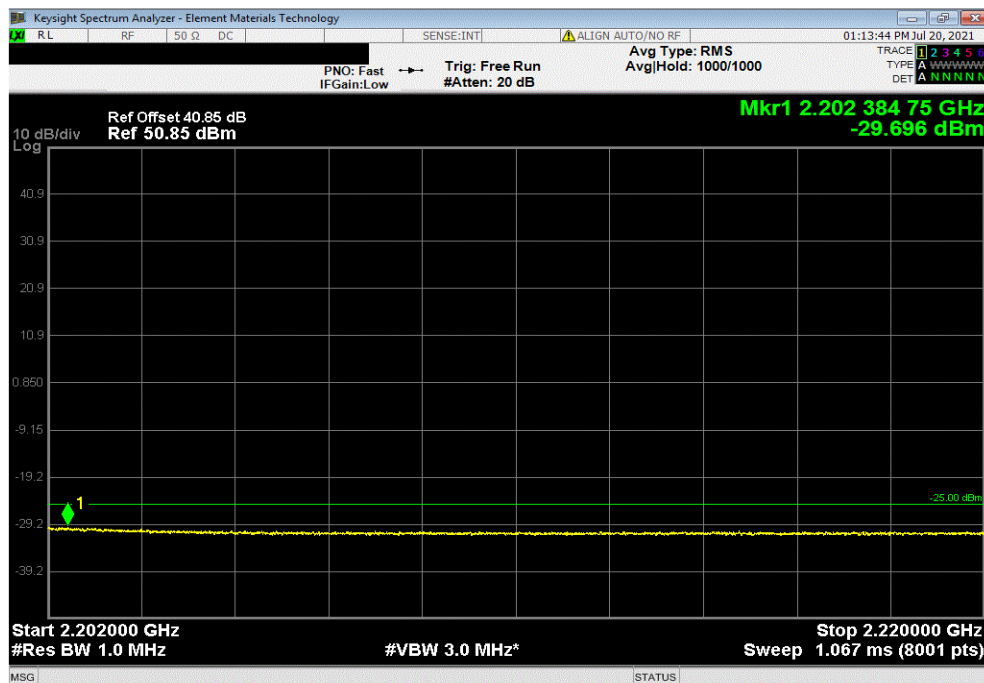


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2195 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.03		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel 2195 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-29.70		-25		Pass

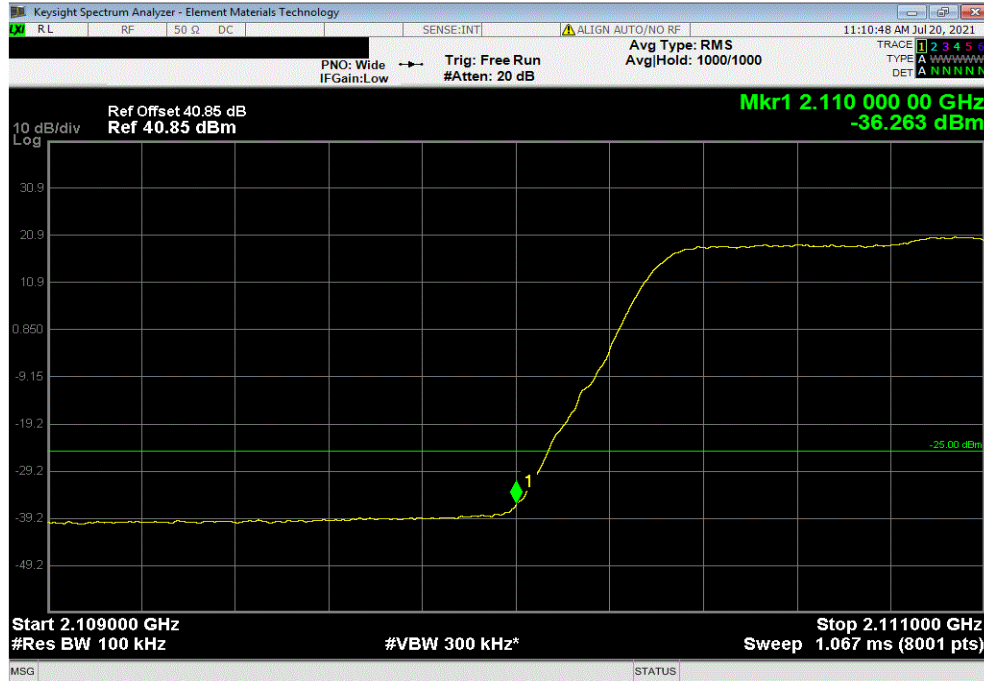


BAND EDGE COMPLIANCE

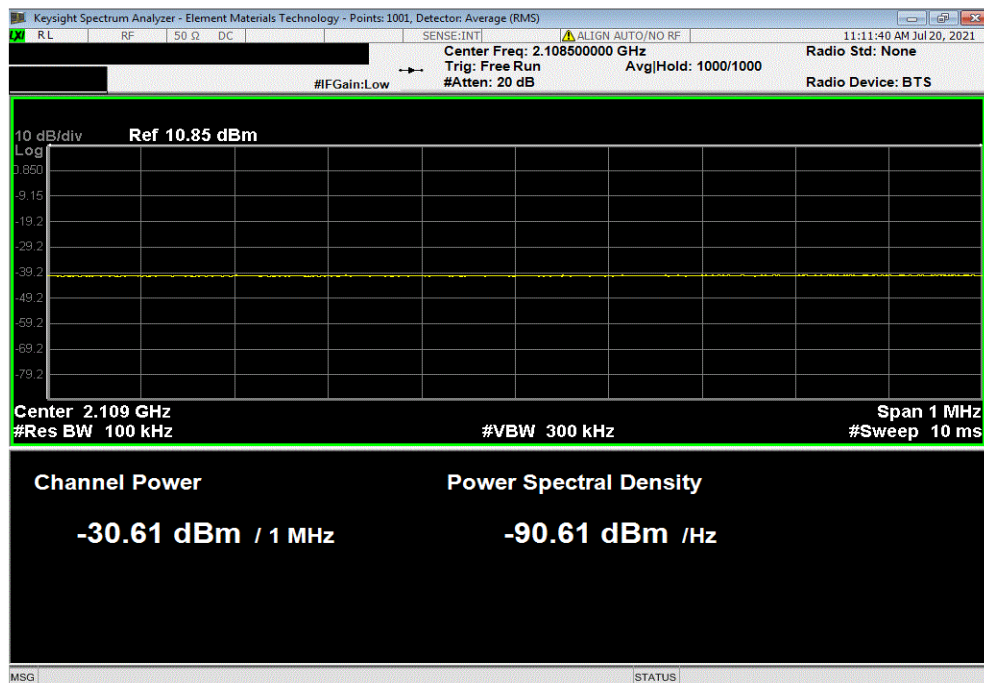


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-36.26		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.61		-25		Pass

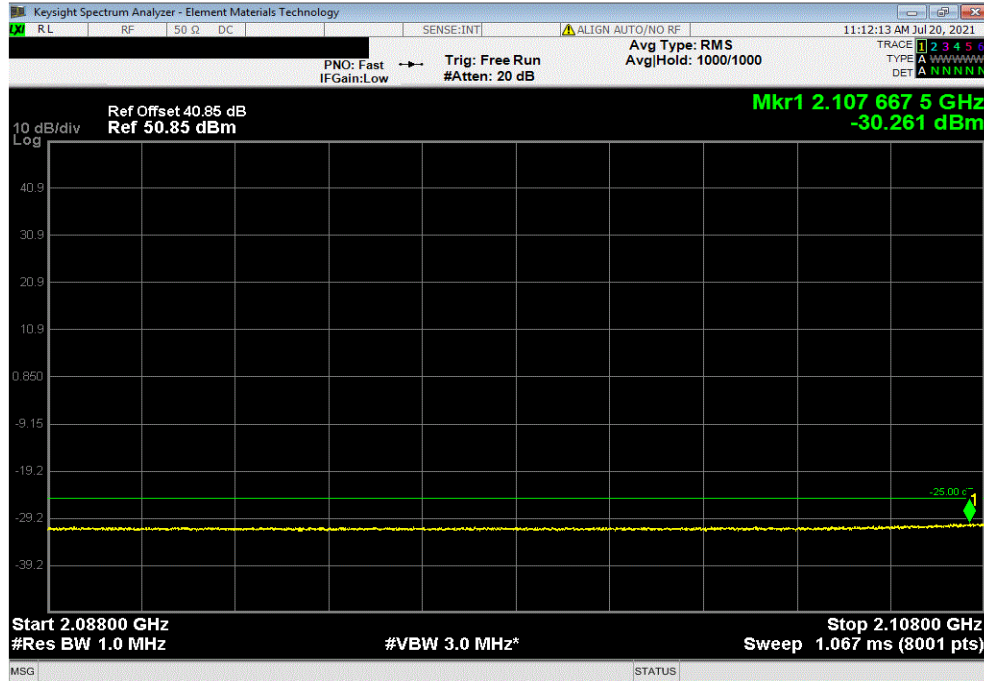


BAND EDGE COMPLIANCE

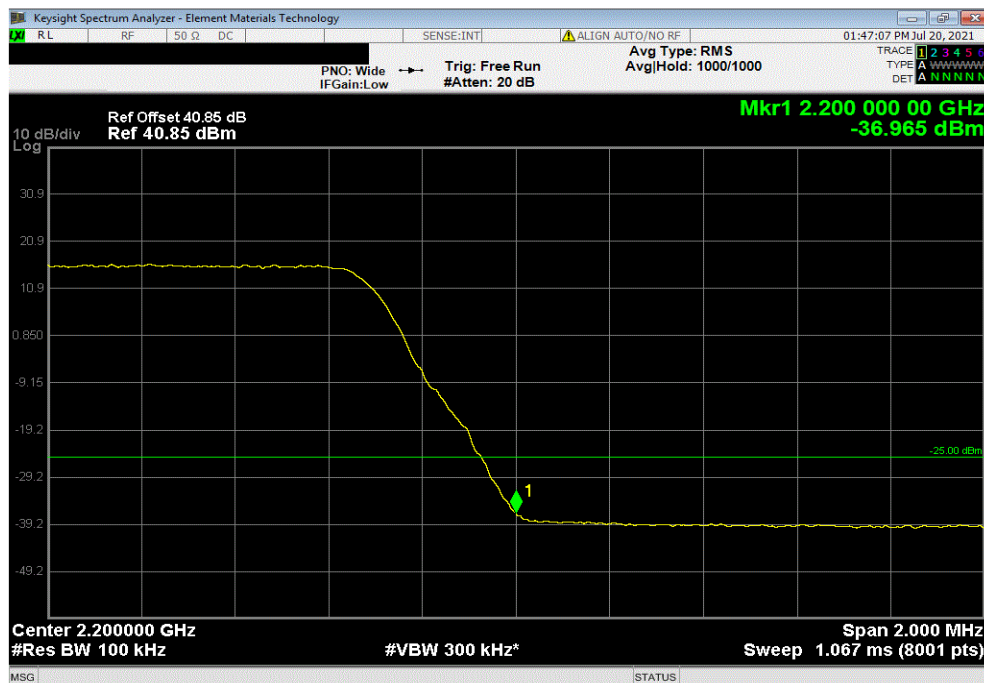


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel 2115 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.26		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 2195 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-36.97		-25		Pass

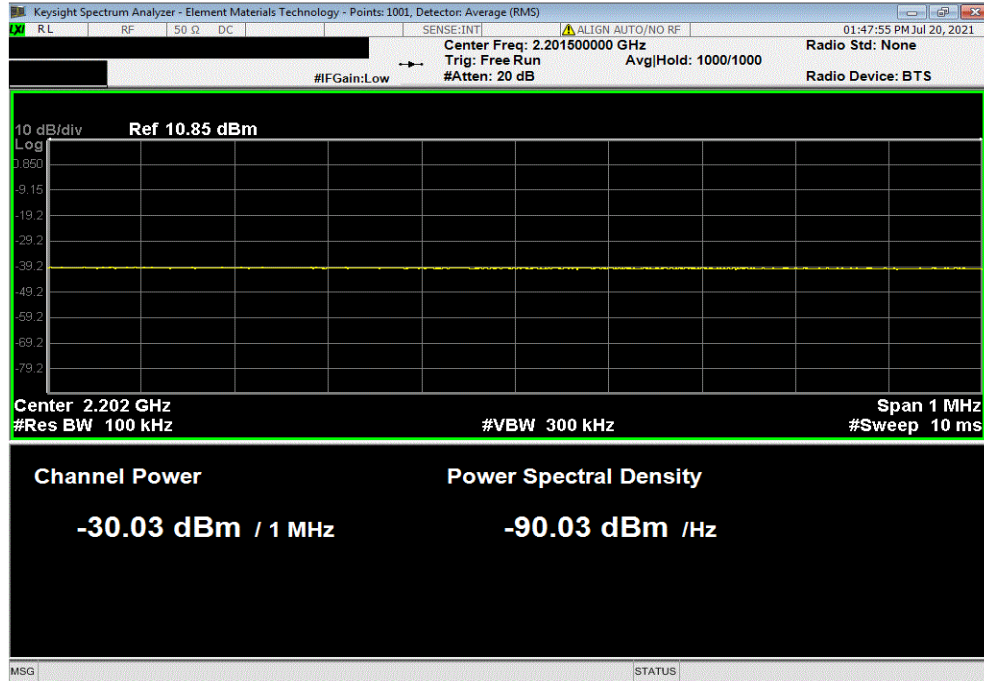


BAND EDGE COMPLIANCE

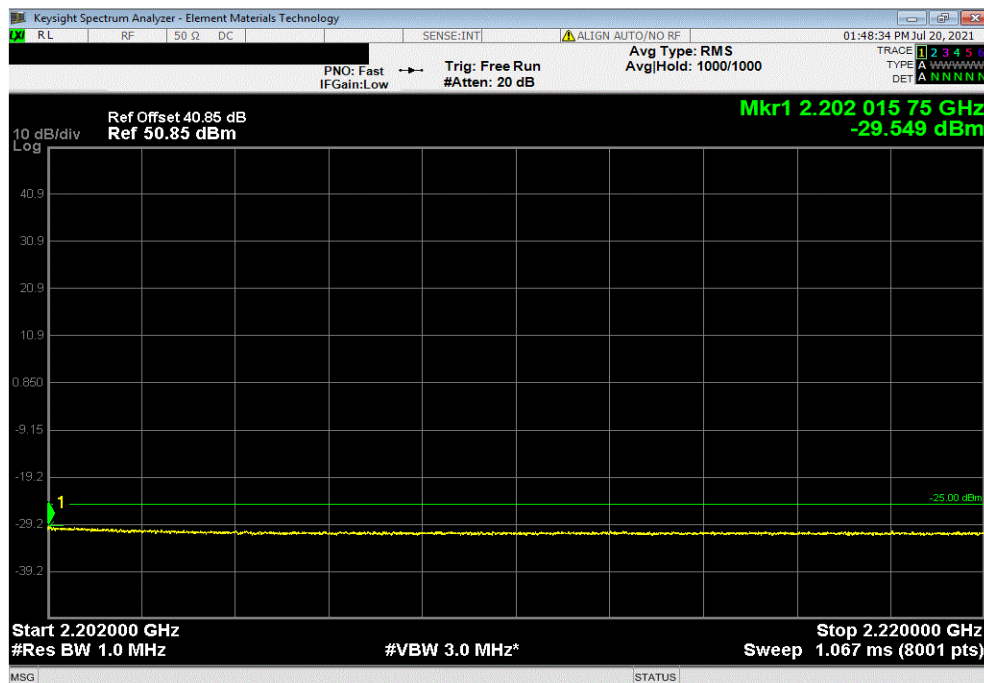


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.03	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.55	-25	Pass			

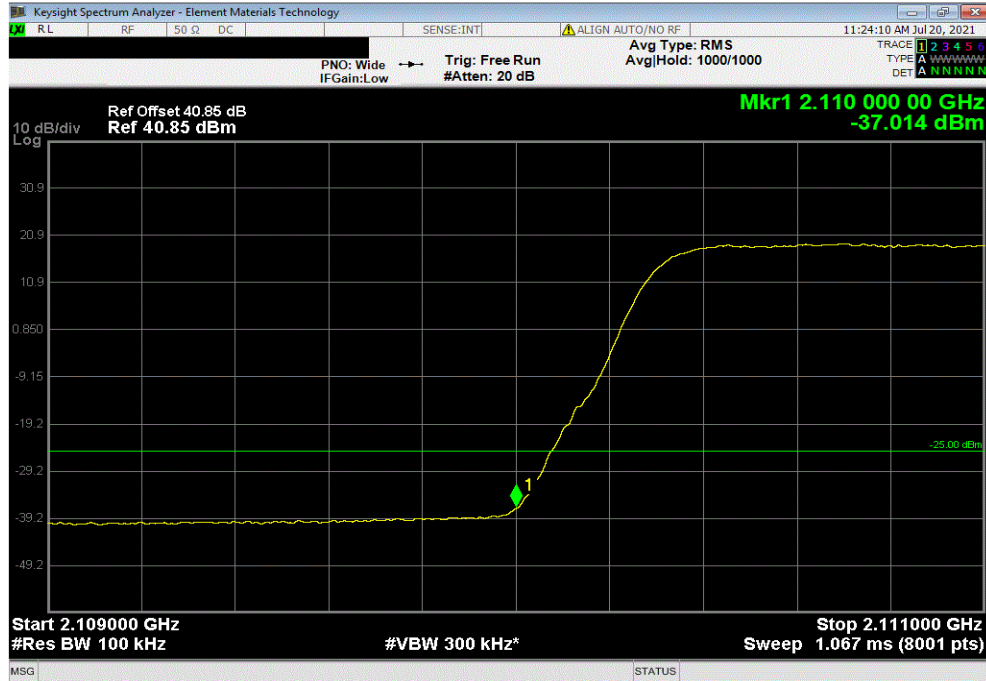


BAND EDGE COMPLIANCE

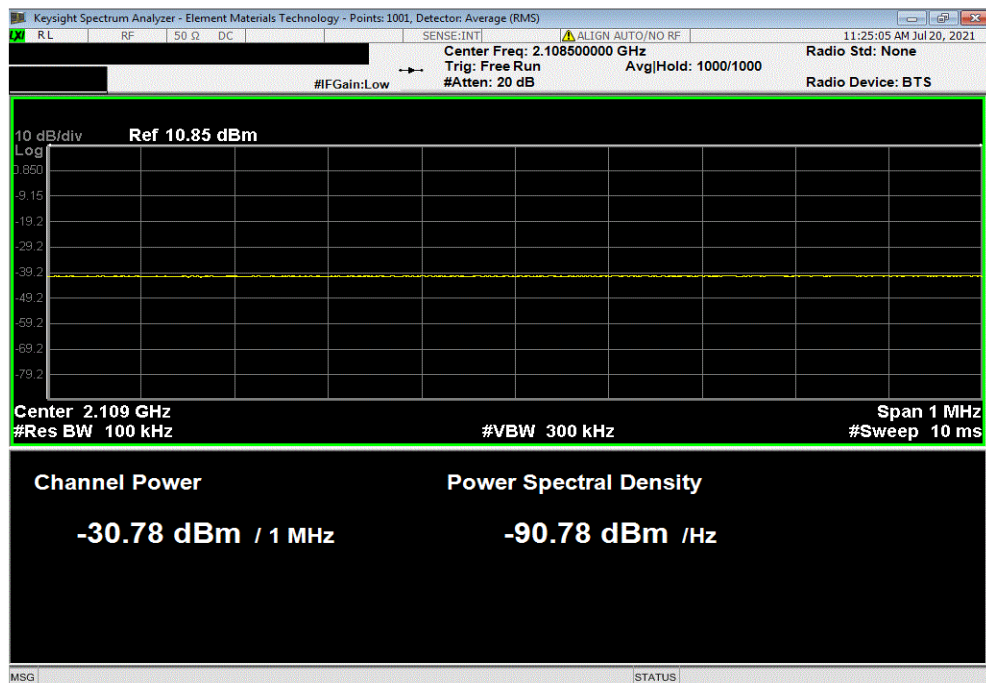


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 2115 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-37.01	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 2115 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.78	-25	Pass

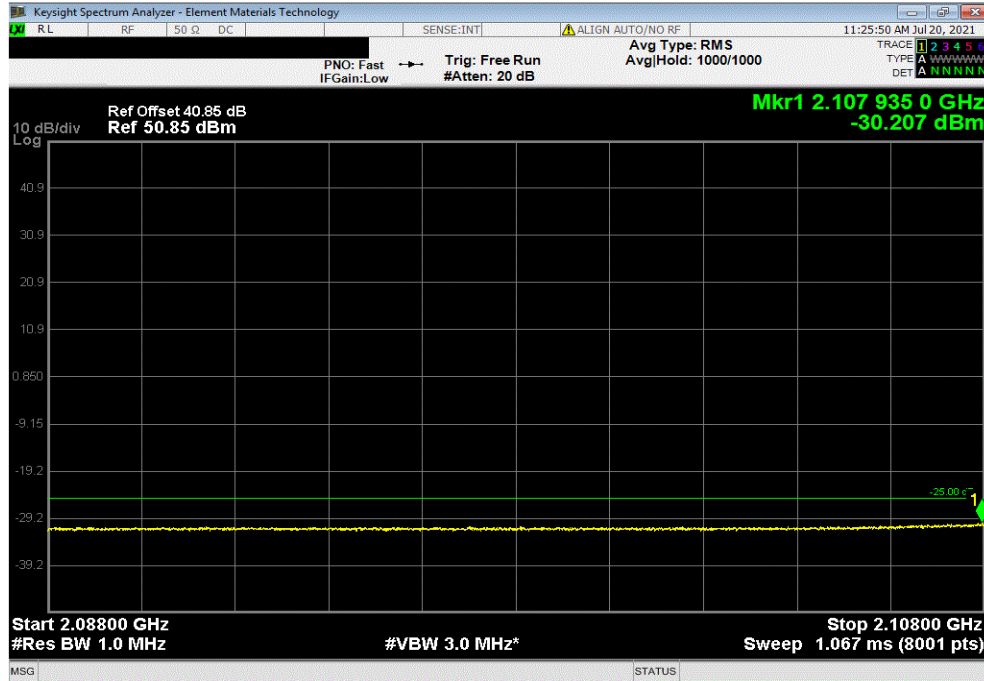


BAND EDGE COMPLIANCE

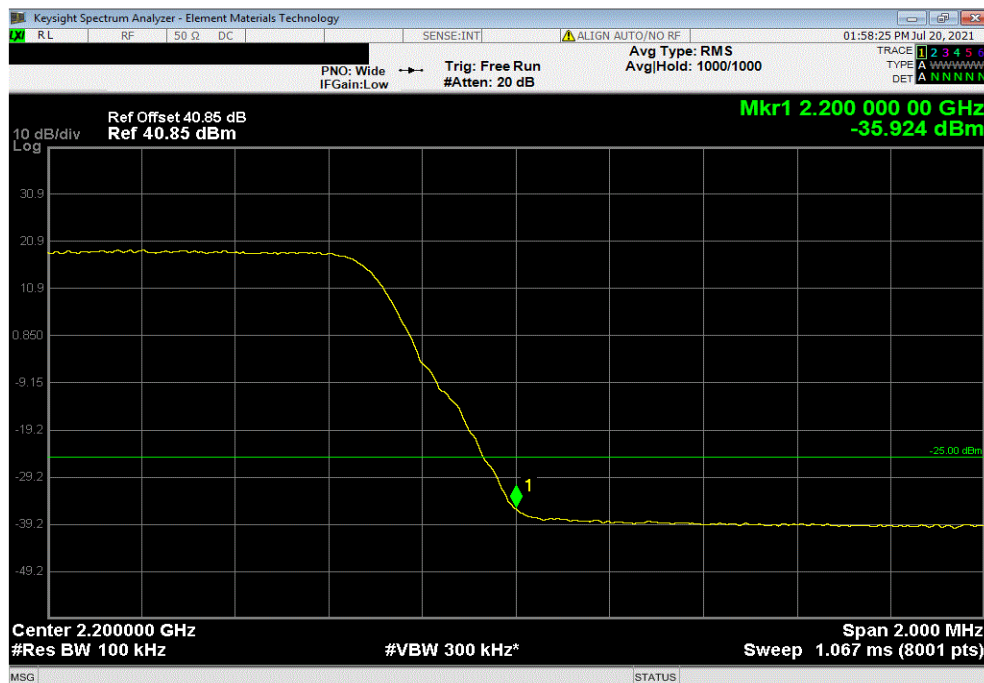


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 2115 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.21	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-35.92	-25	Pass			

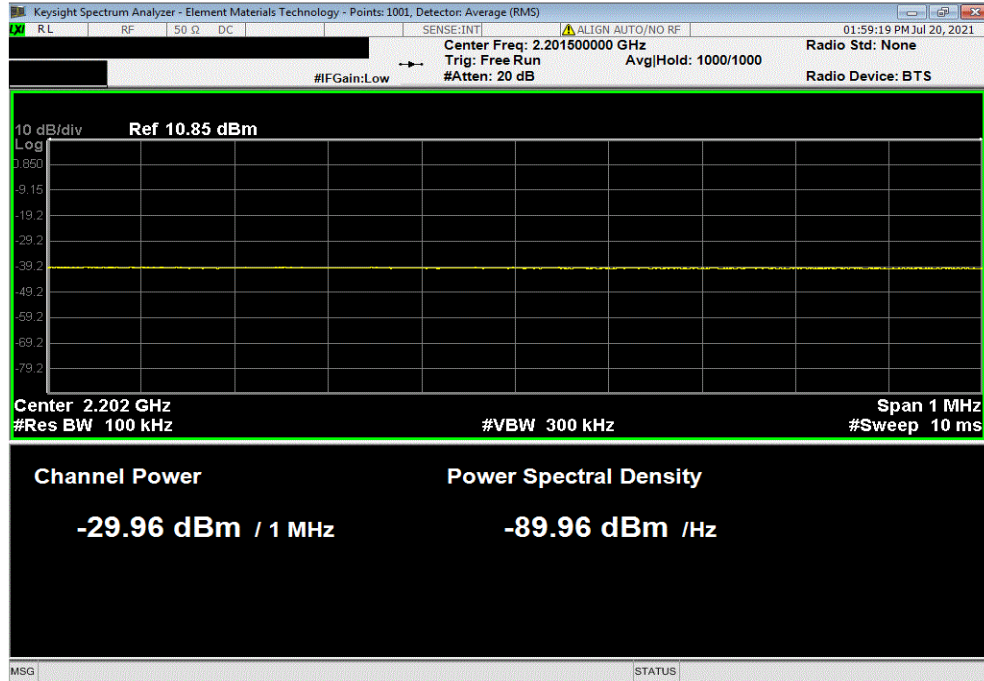


BAND EDGE COMPLIANCE

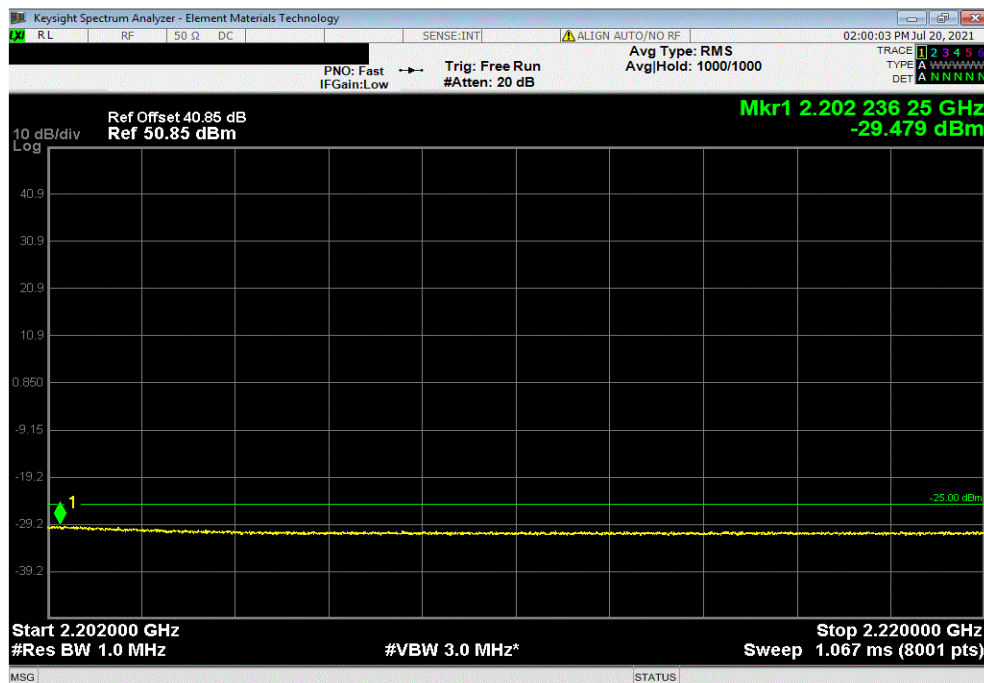


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.96	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.48	-25	Pass			

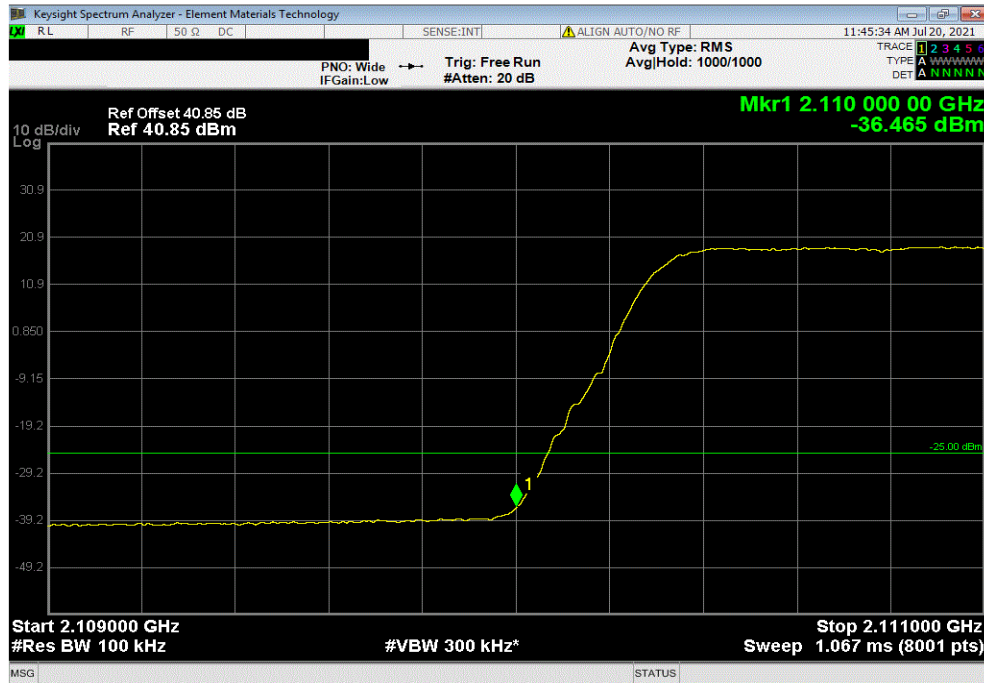


BAND EDGE COMPLIANCE

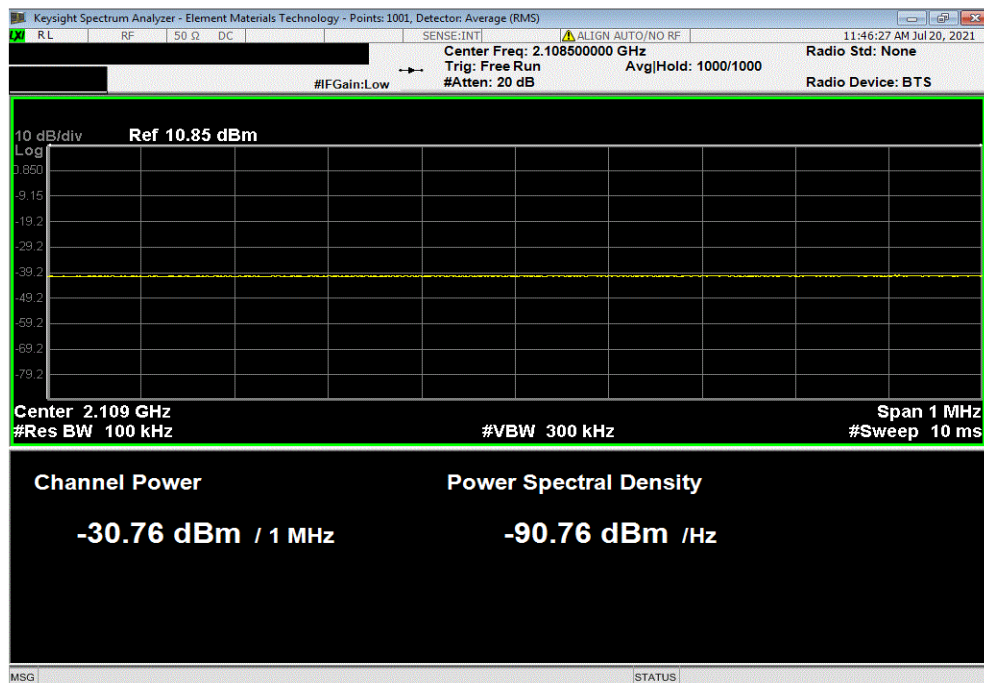


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-36.47	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.76	-25	Pass

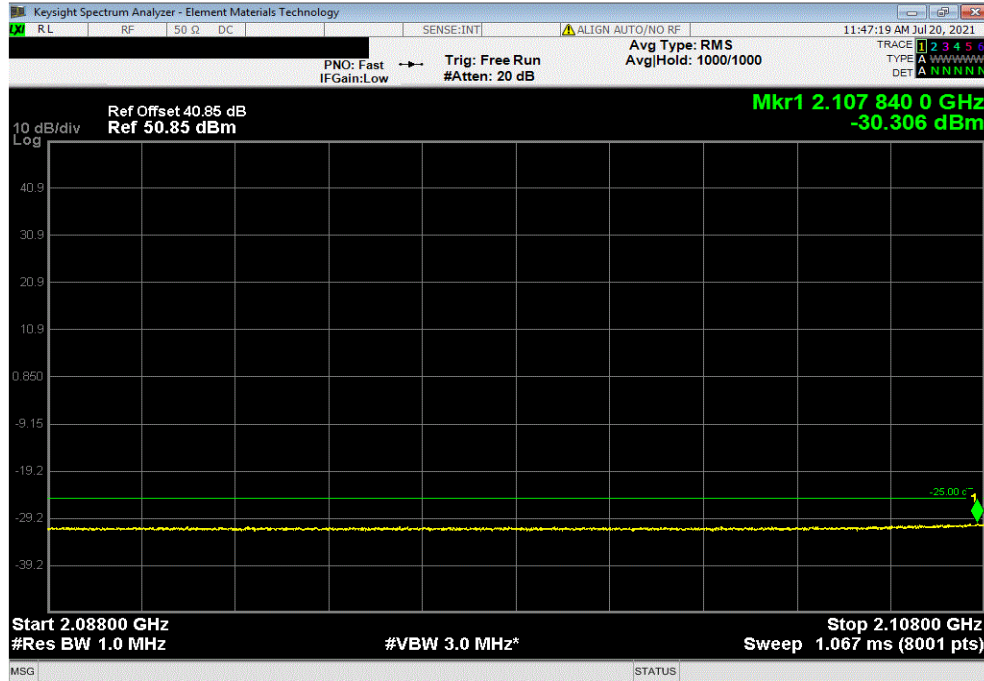


BAND EDGE COMPLIANCE

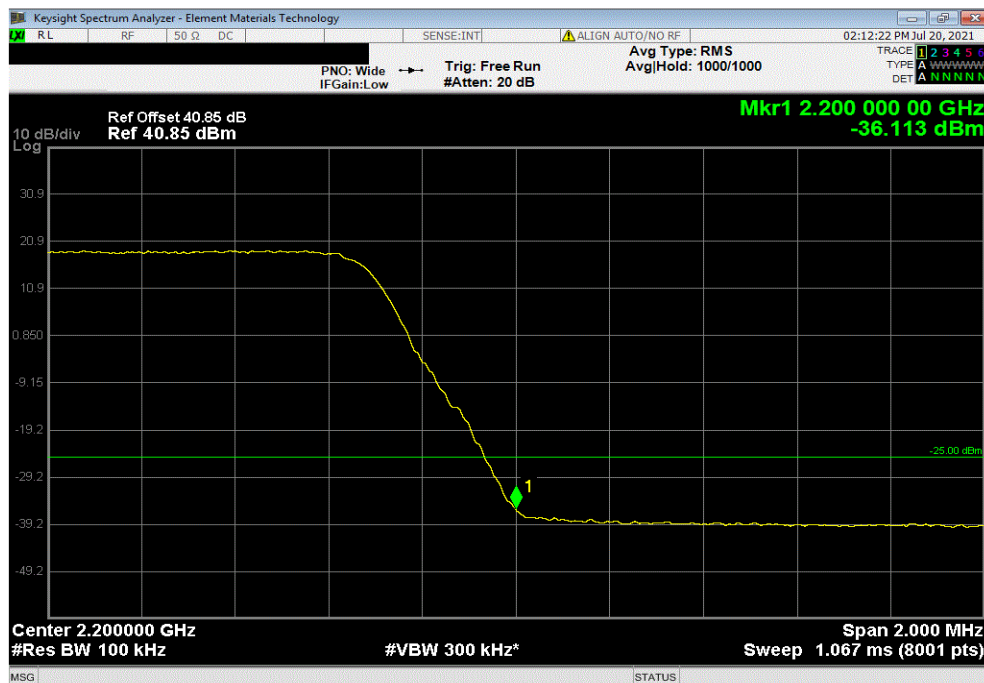


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 2115 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.31	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-36.11	-25	Pass			

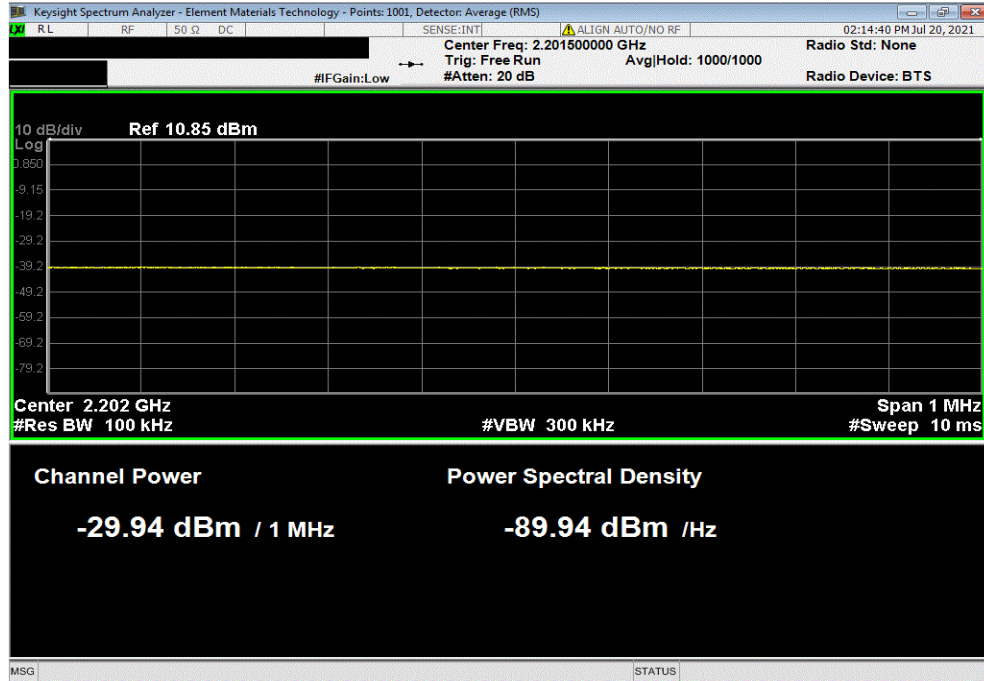


BAND EDGE COMPLIANCE

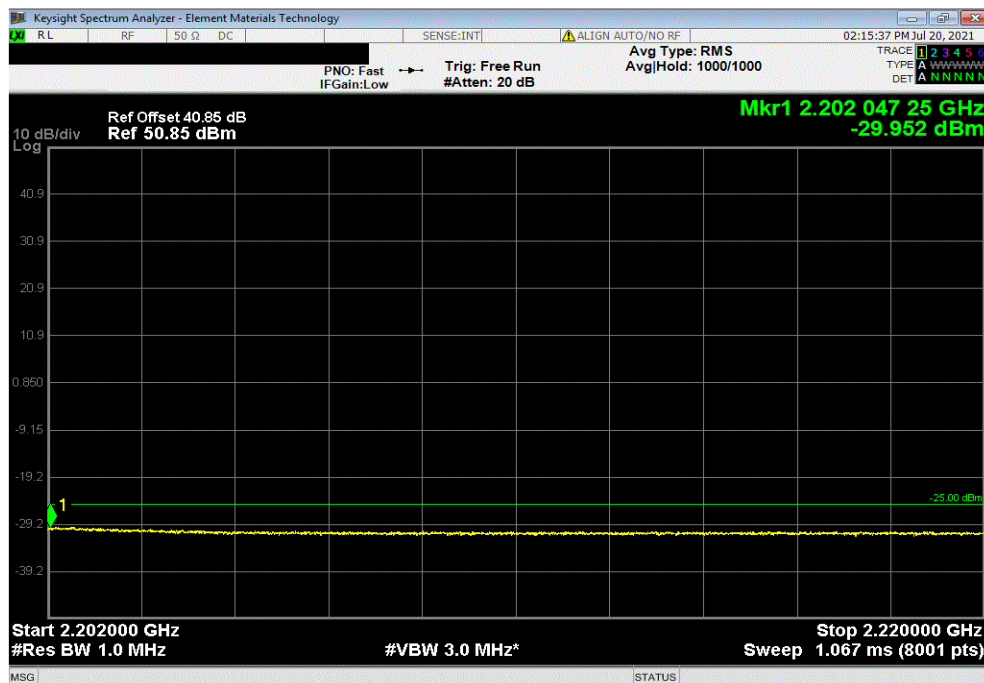


TbTx 2021.03.19.1 XMR 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.94	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2195 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.95	-25	Pass			

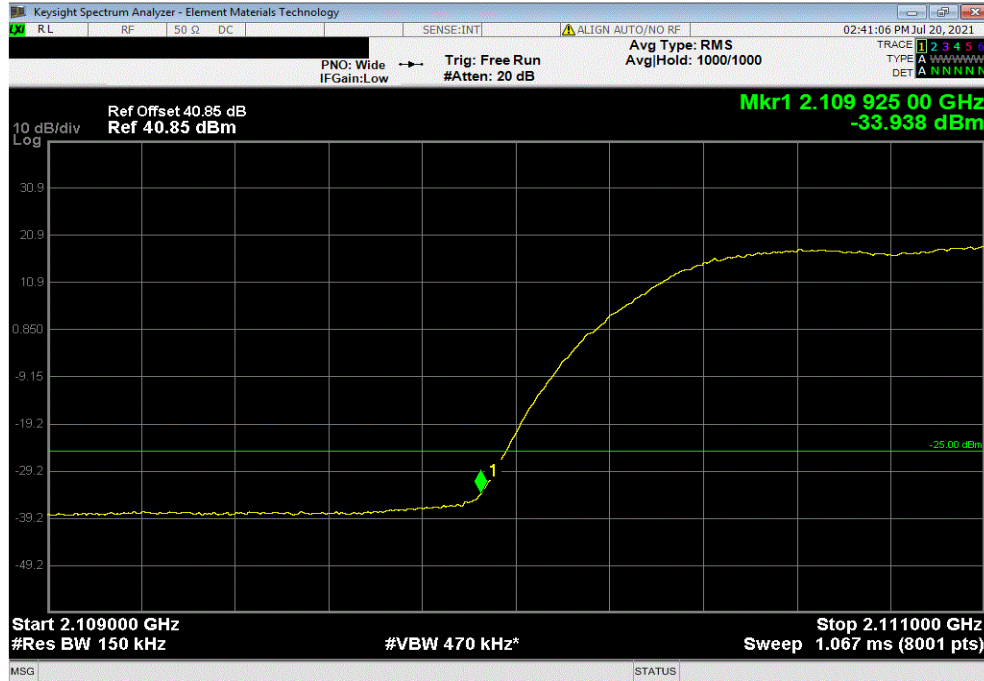


BAND EDGE COMPLIANCE

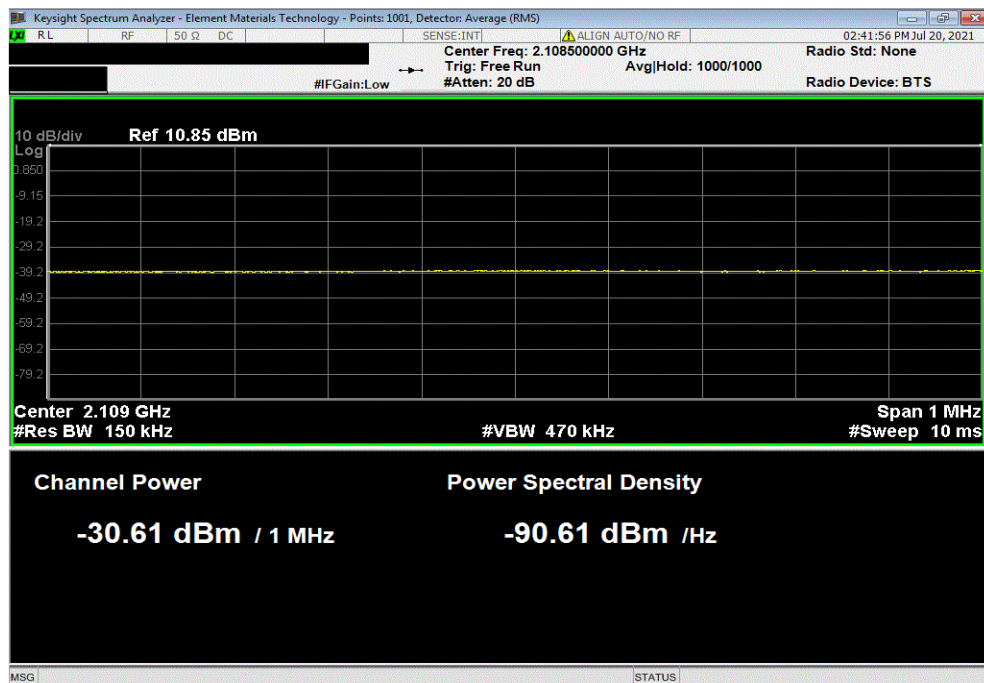


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.94		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.61		-25		Pass

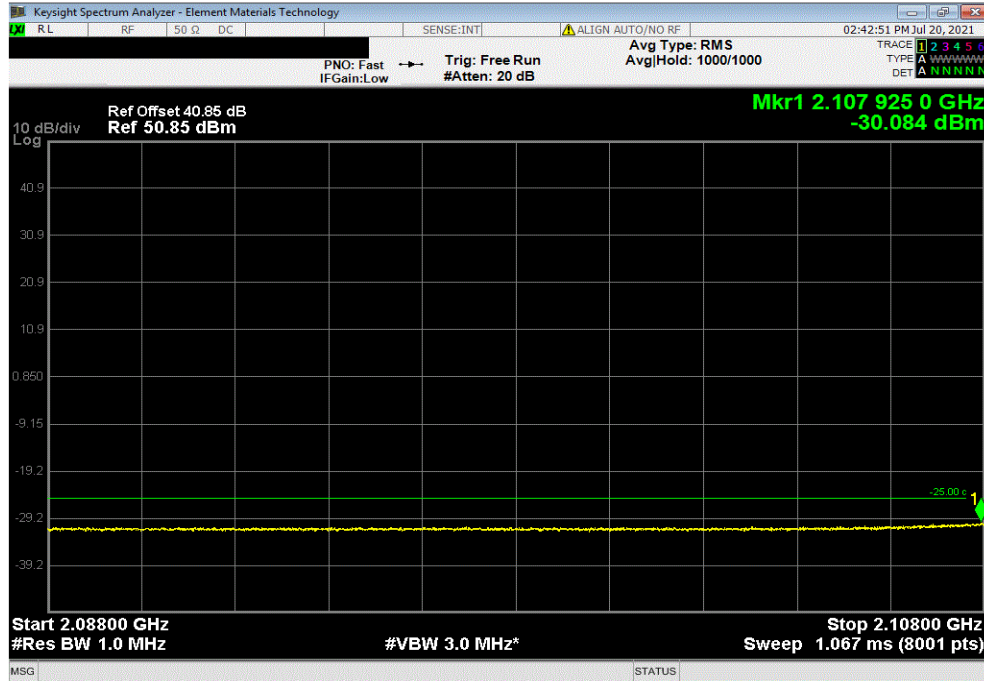


BAND EDGE COMPLIANCE

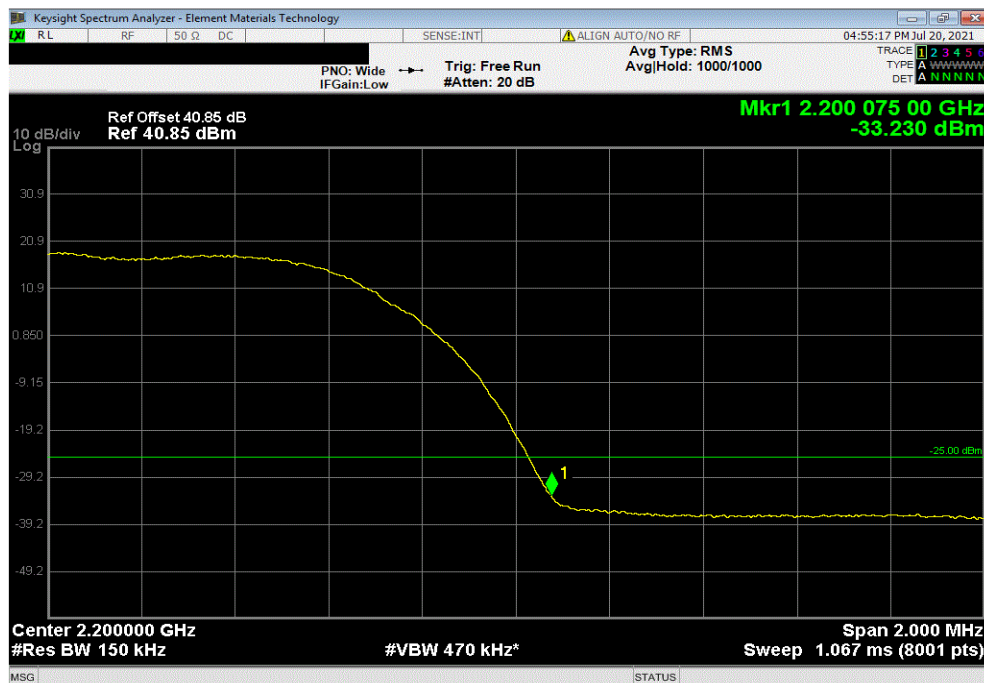


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.08		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 2192.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.23		-25		Pass

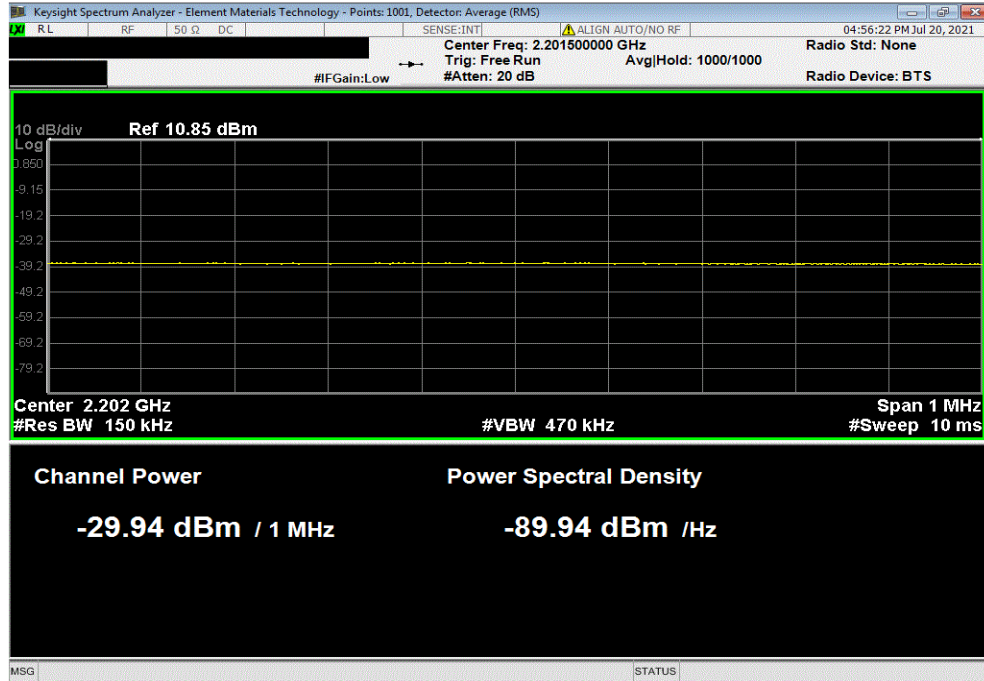


BAND EDGE COMPLIANCE

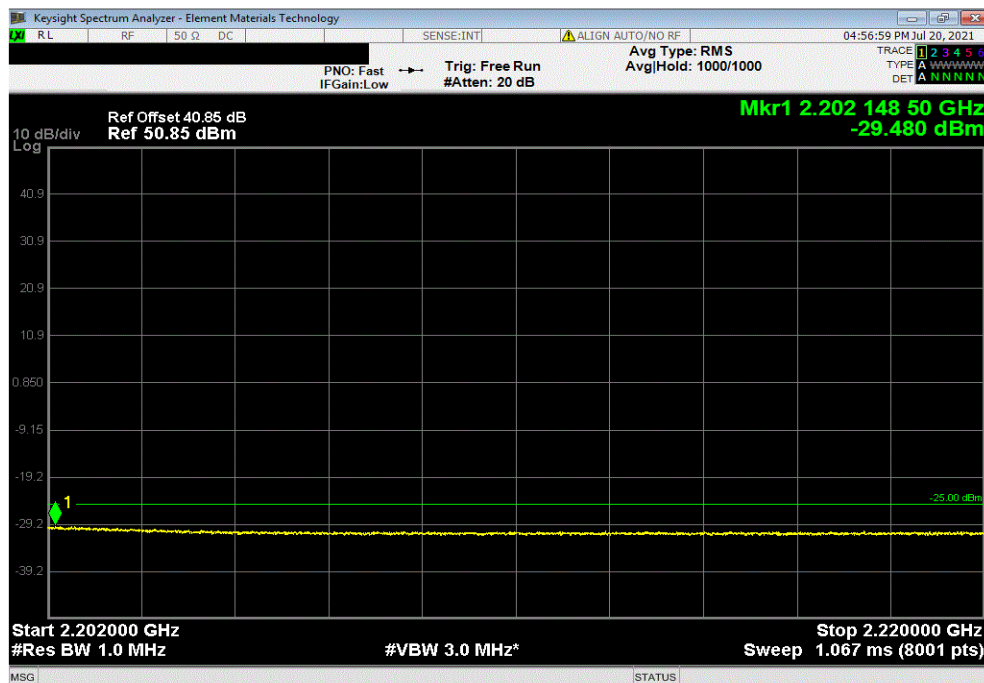


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.94	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.48	-25	Pass			

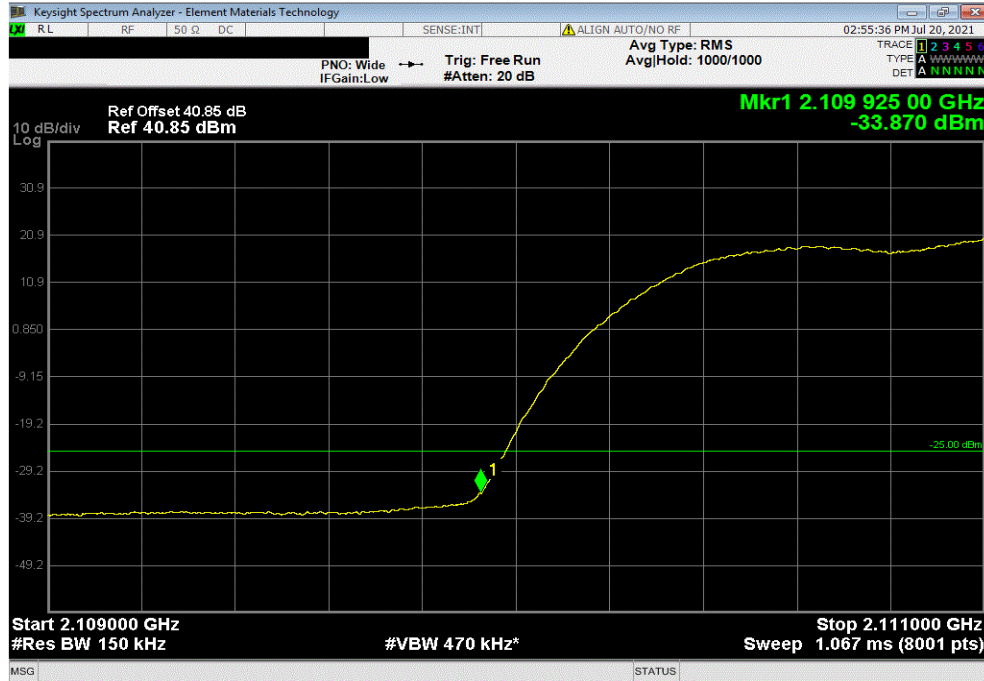


BAND EDGE COMPLIANCE

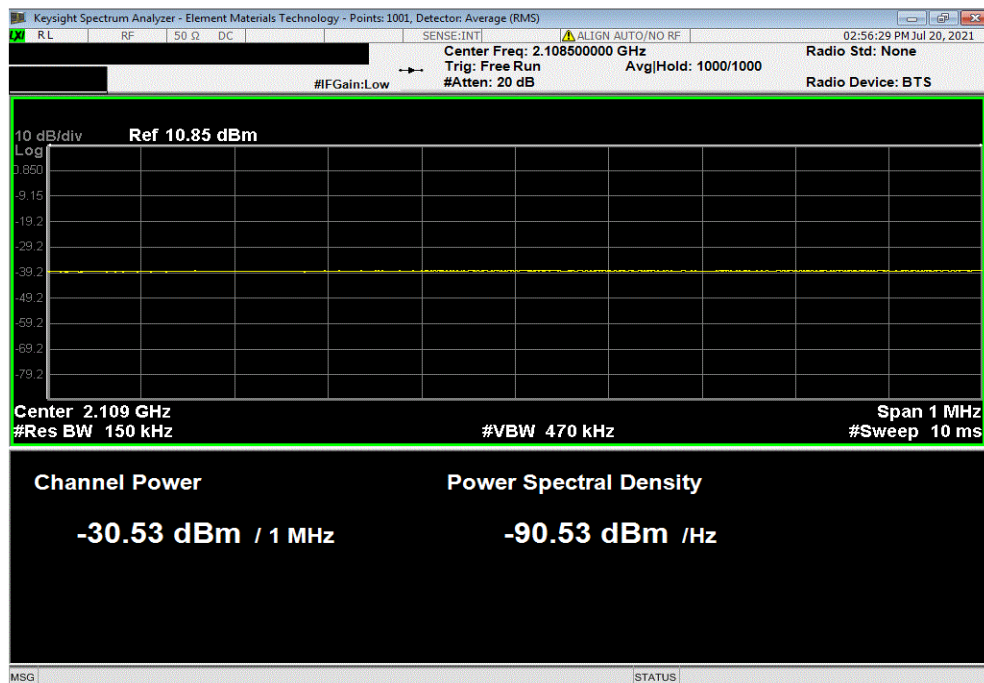


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.87		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.53		-25		Pass

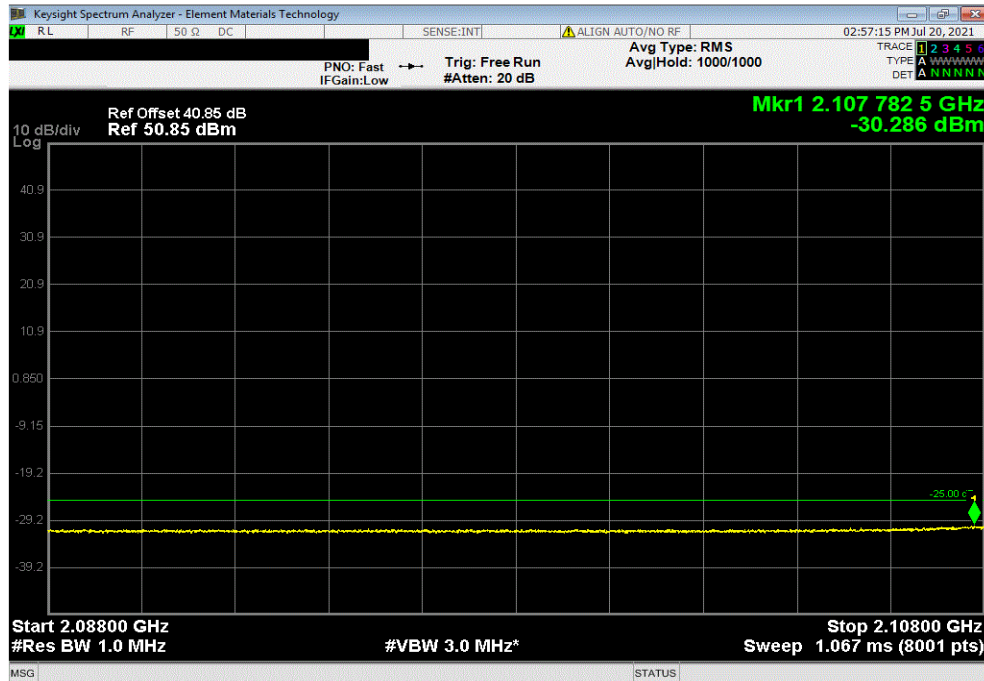


BAND EDGE COMPLIANCE

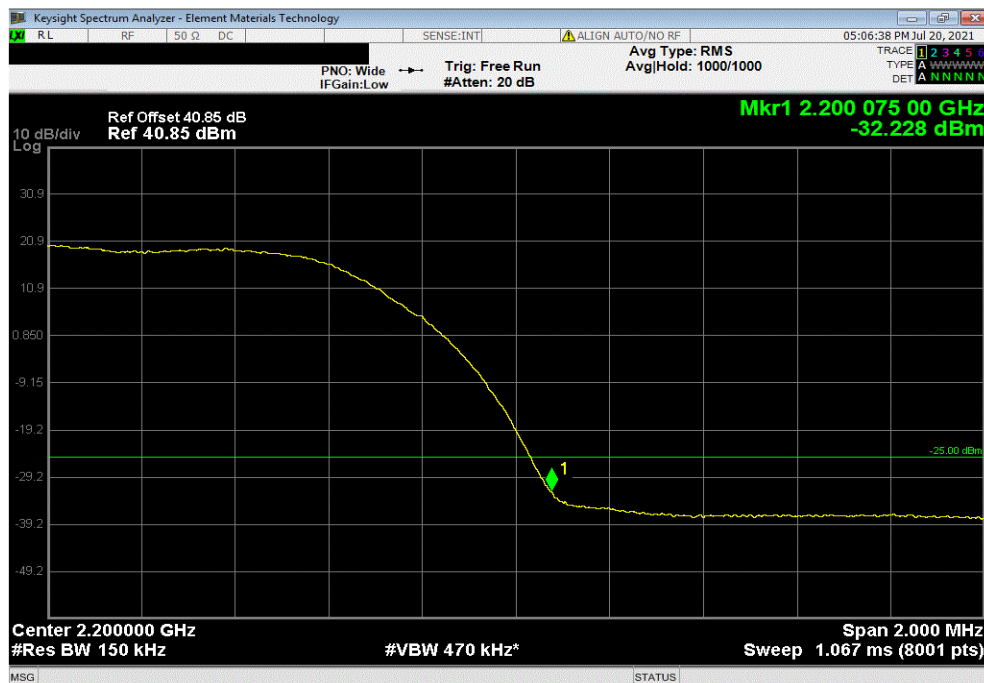


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.29	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-32.23	-25	Pass			

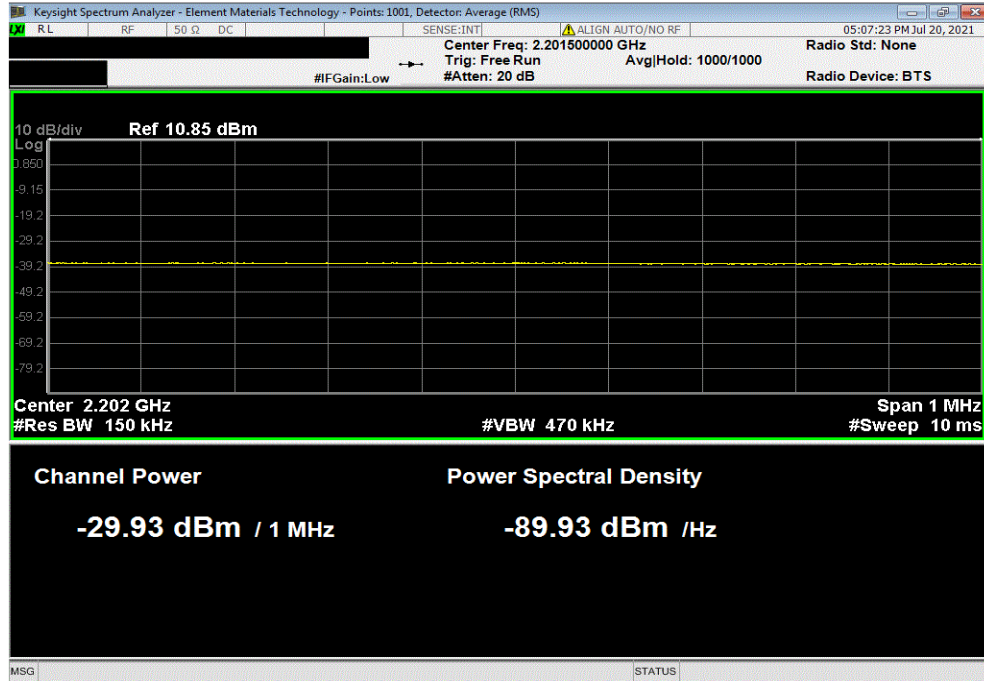


BAND EDGE COMPLIANCE

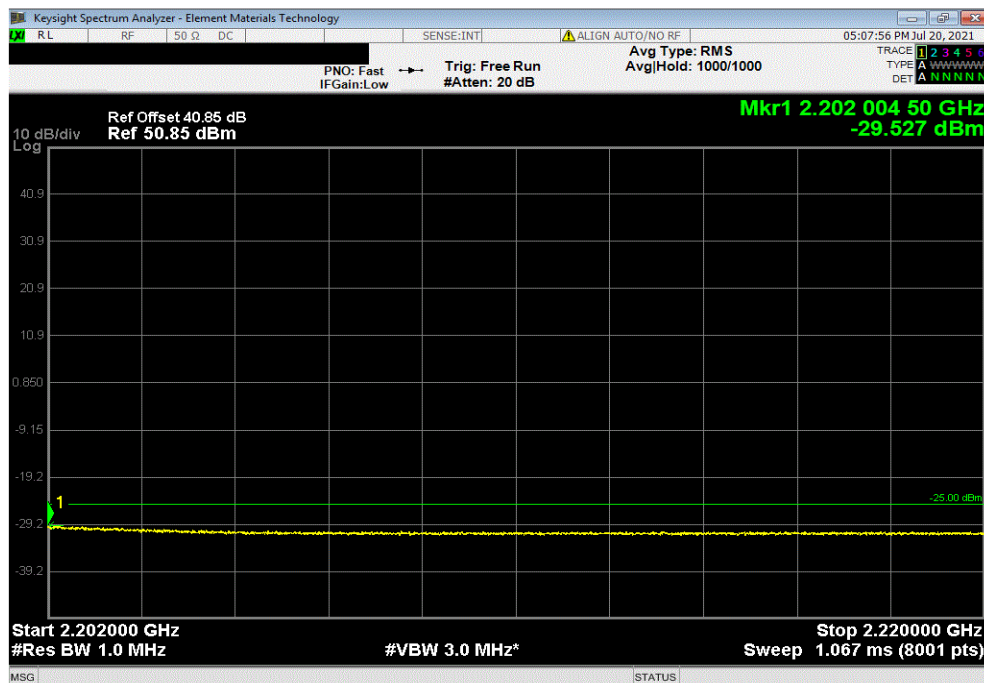


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-29.93	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.53	-25	Pass			

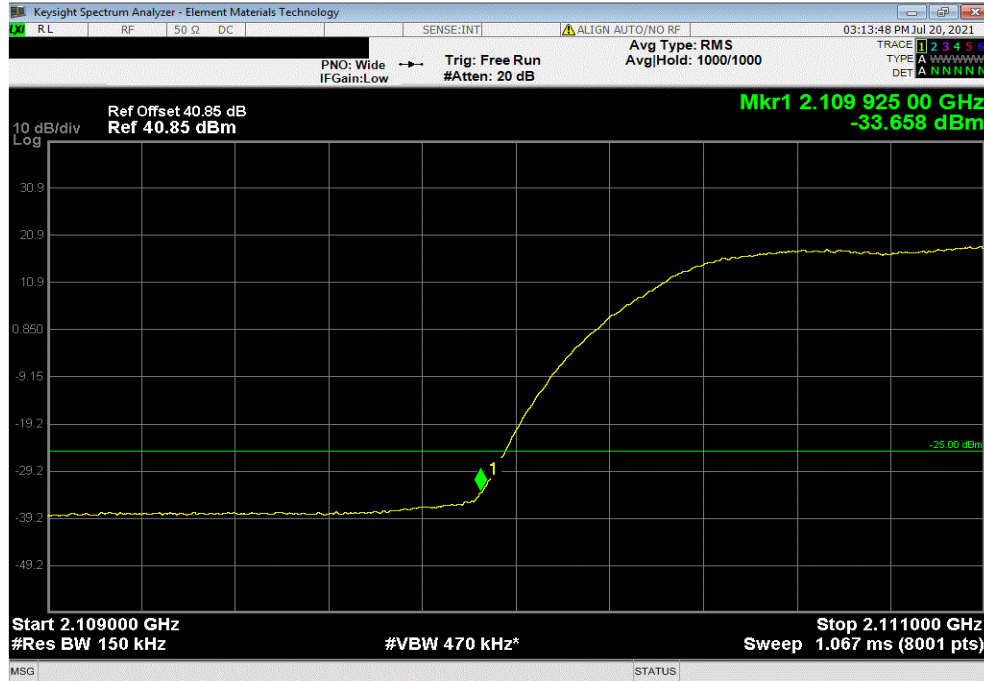


BAND EDGE COMPLIANCE

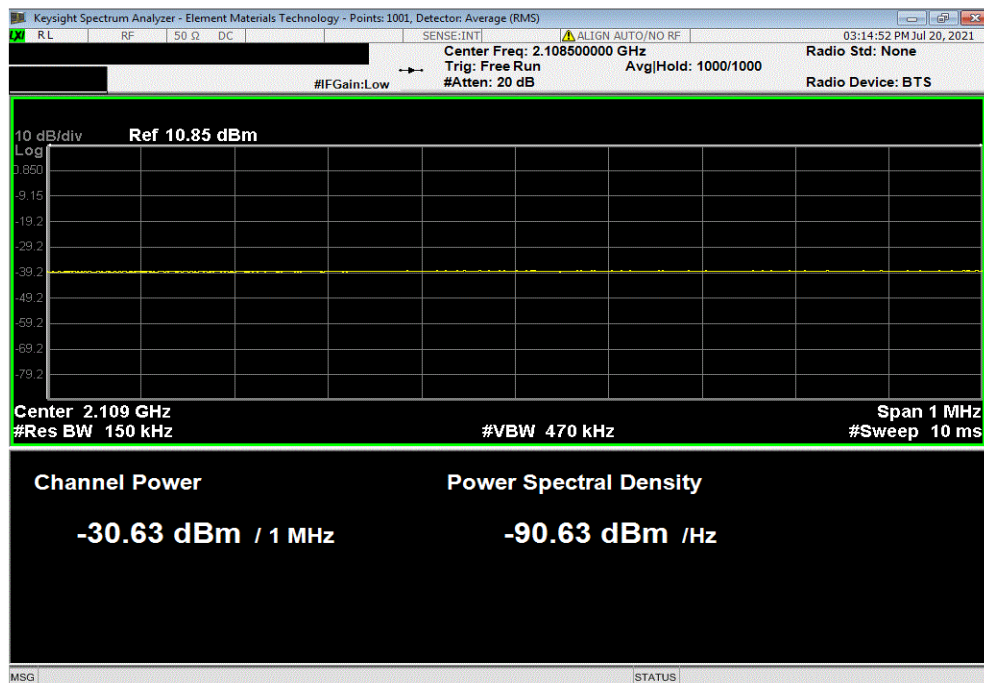


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-33.66		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.63		-25		Pass

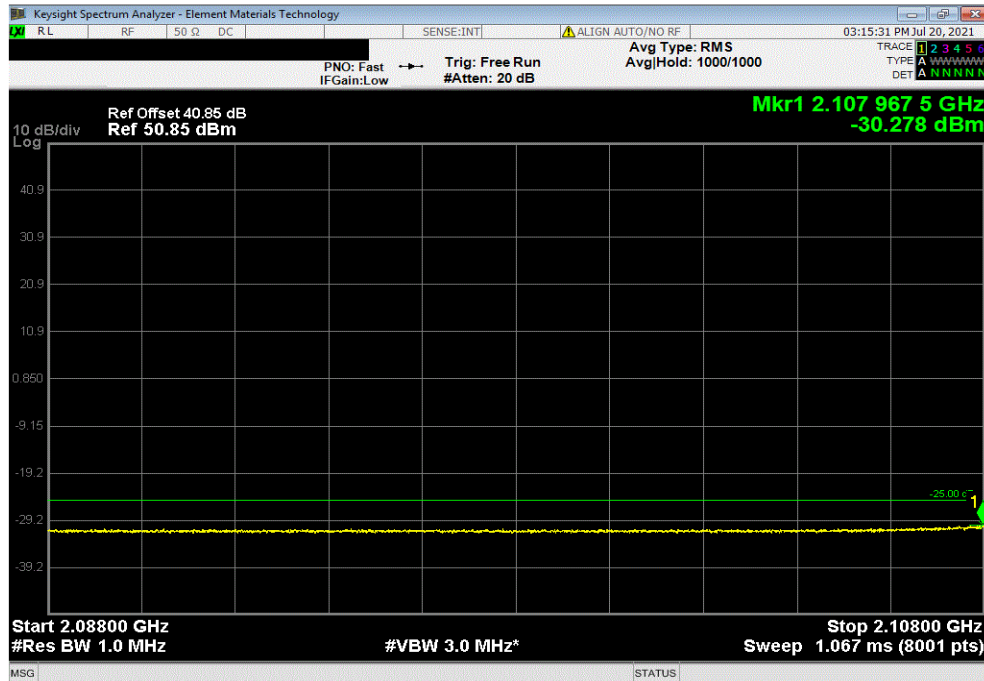


BAND EDGE COMPLIANCE

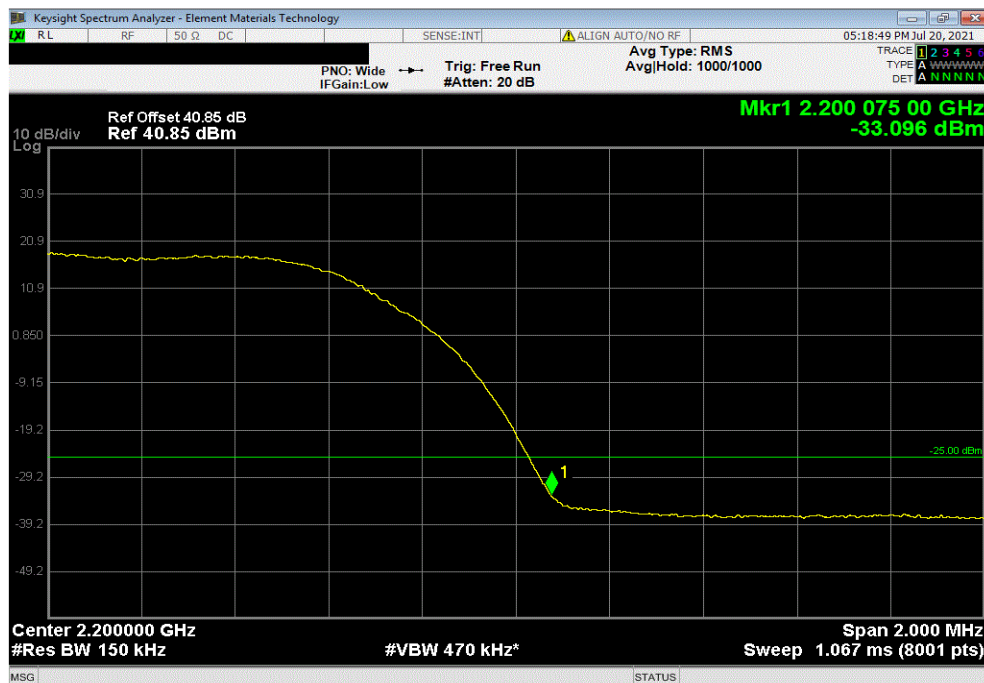


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.28	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.10	-25	Pass			

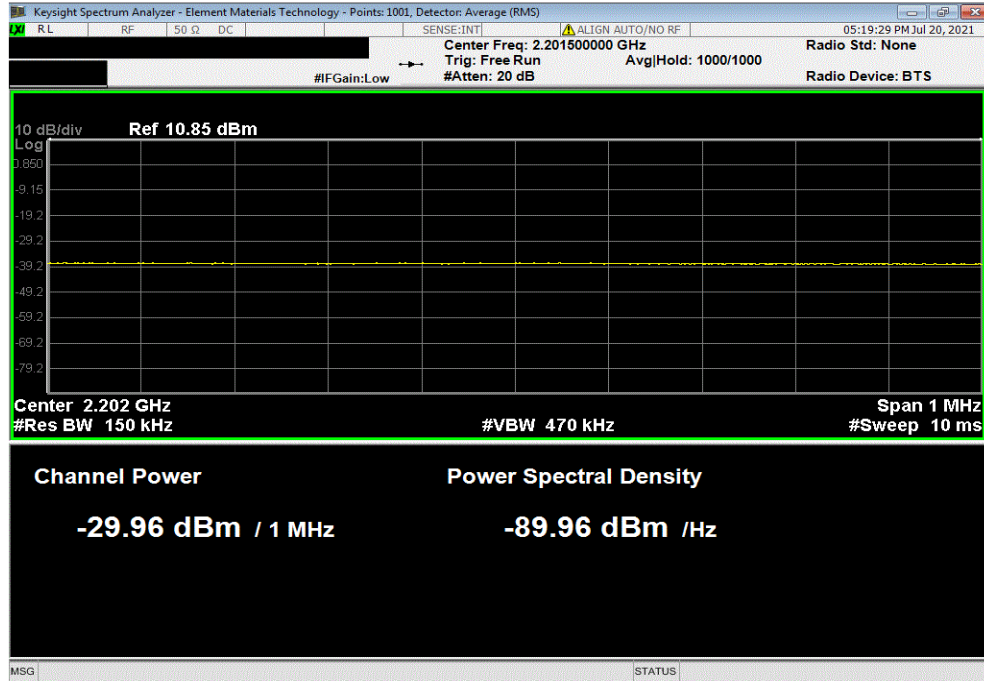


BAND EDGE COMPLIANCE

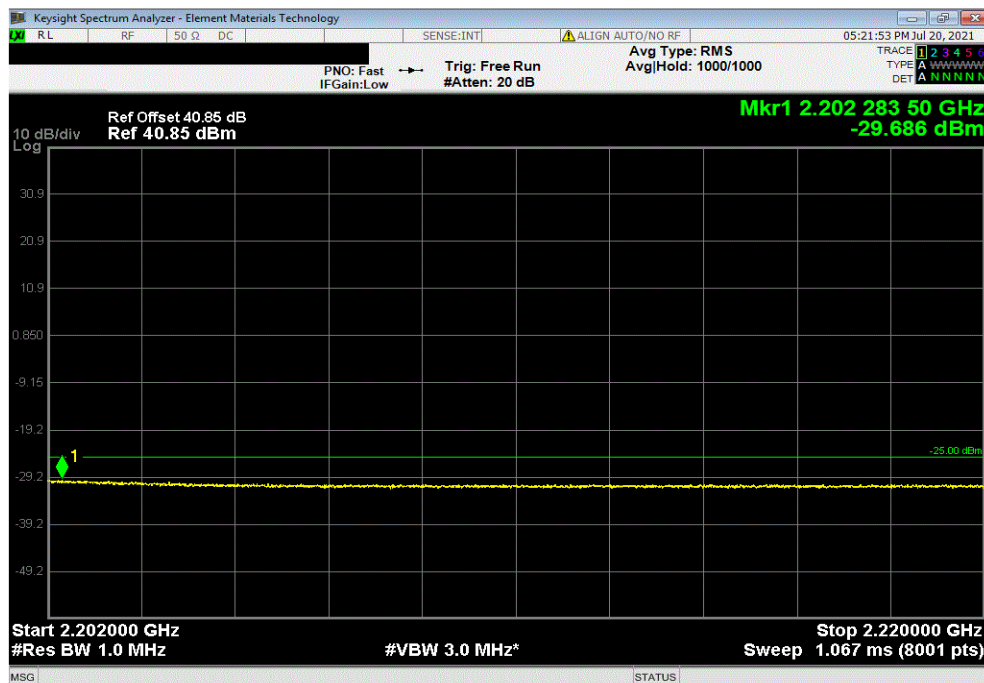


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-29.96		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-29.69		-25		Pass

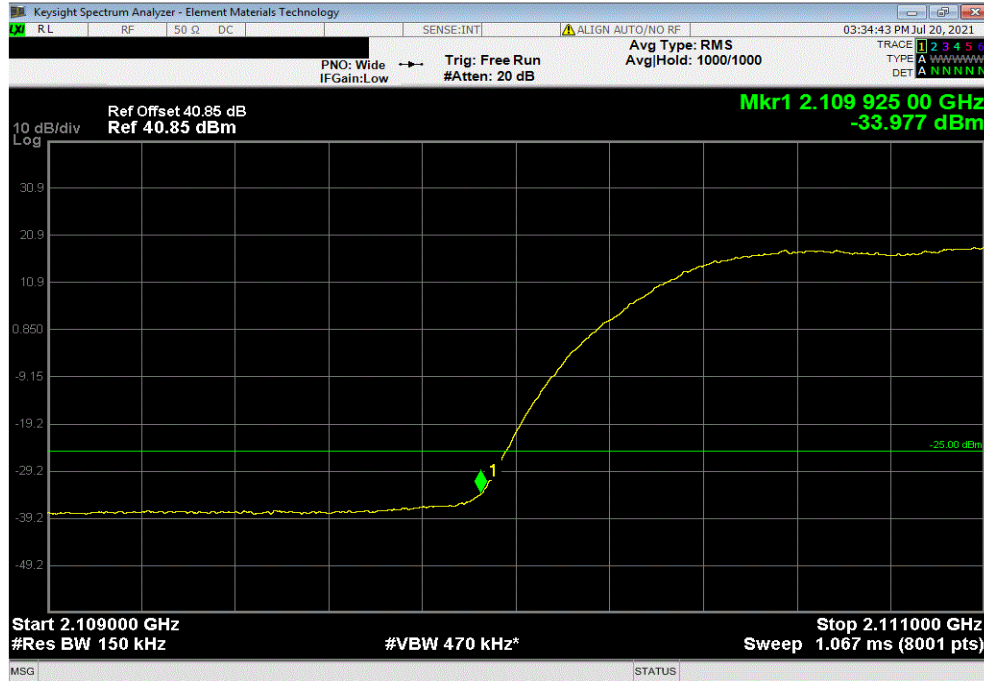


BAND EDGE COMPLIANCE

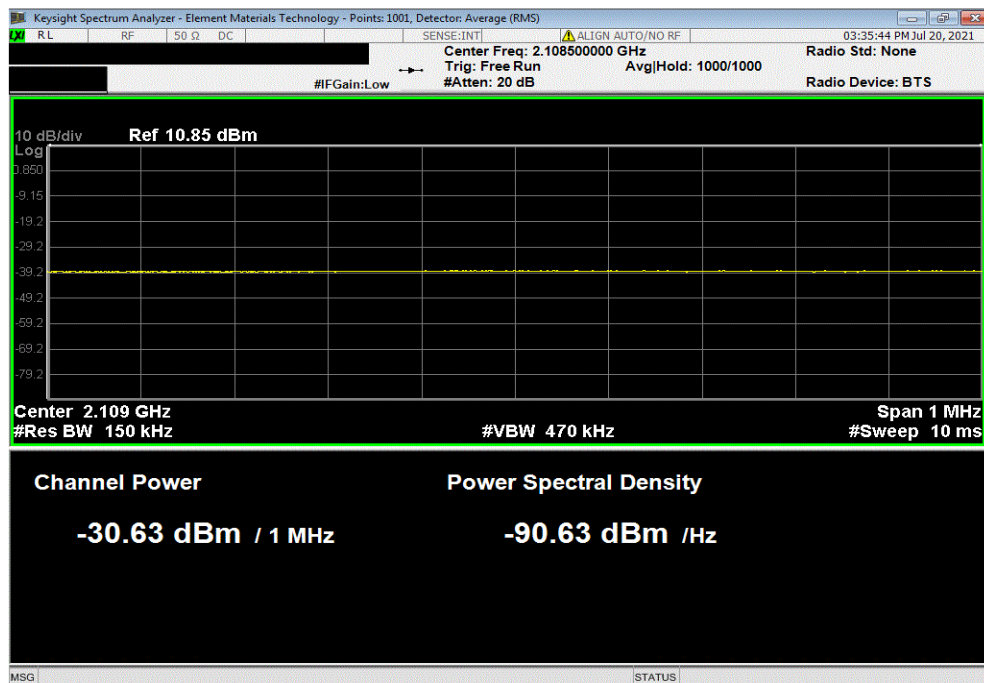


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-33.98	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.63	-25	Pass

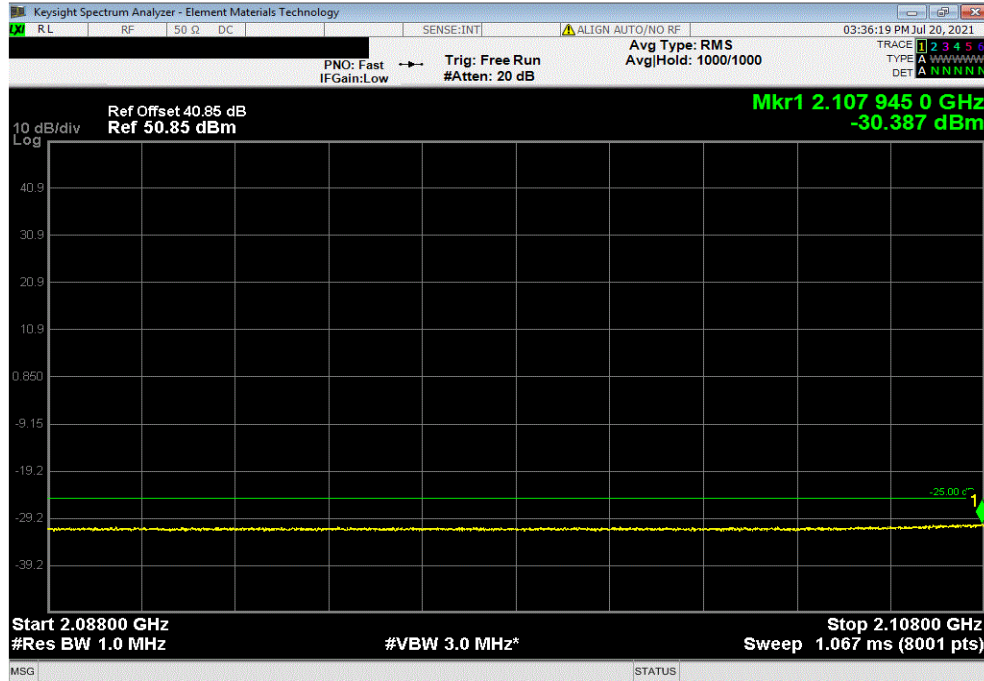


BAND EDGE COMPLIANCE

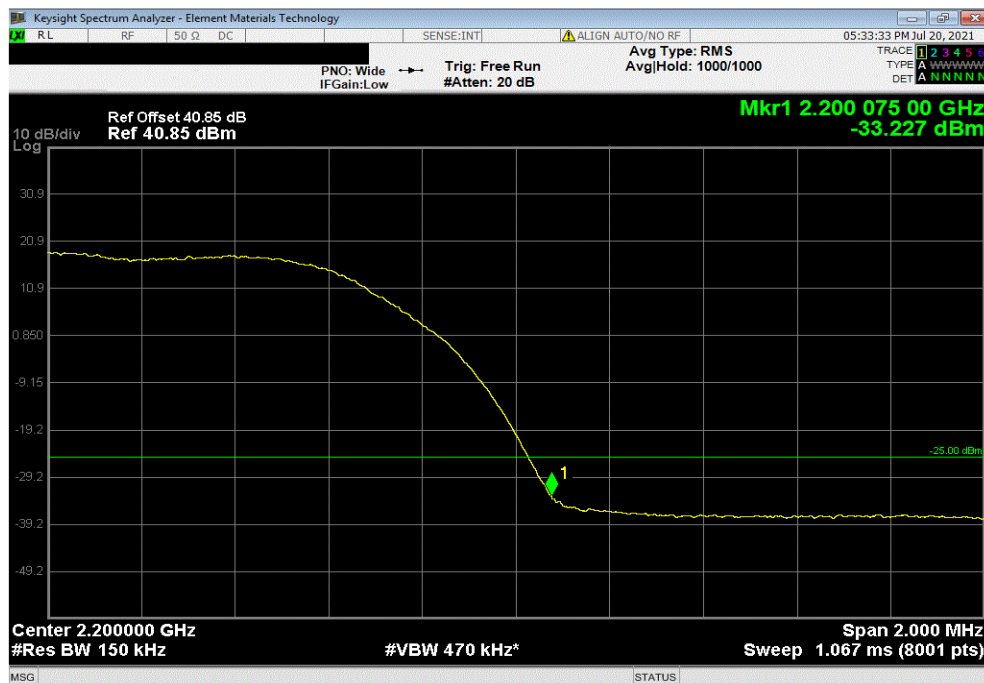


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 2117.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.39	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-33.23	-25	Pass			

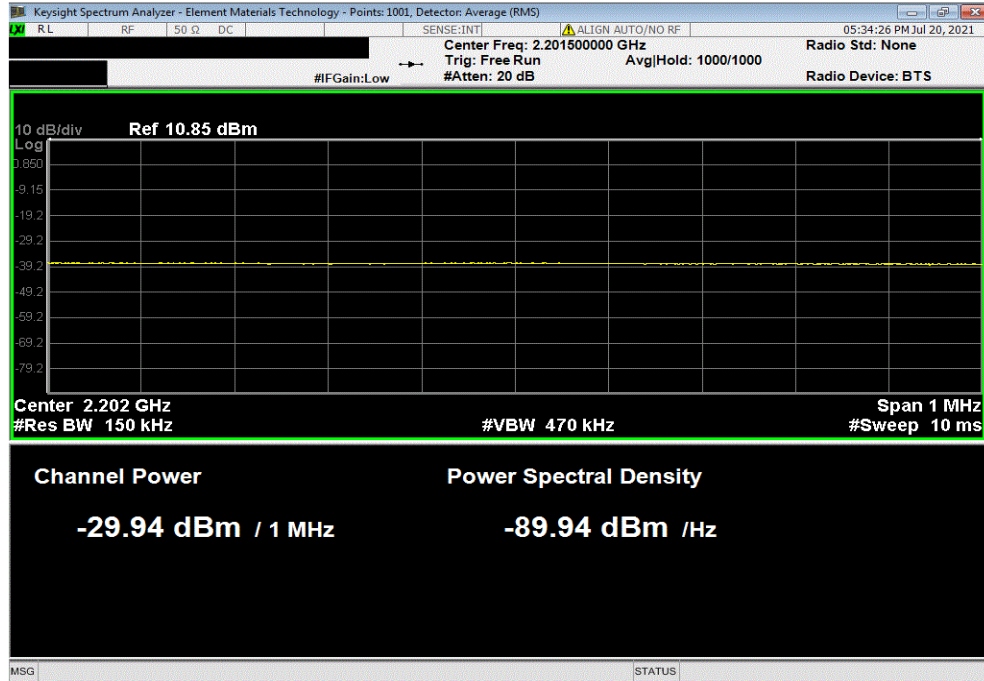


BAND EDGE COMPLIANCE

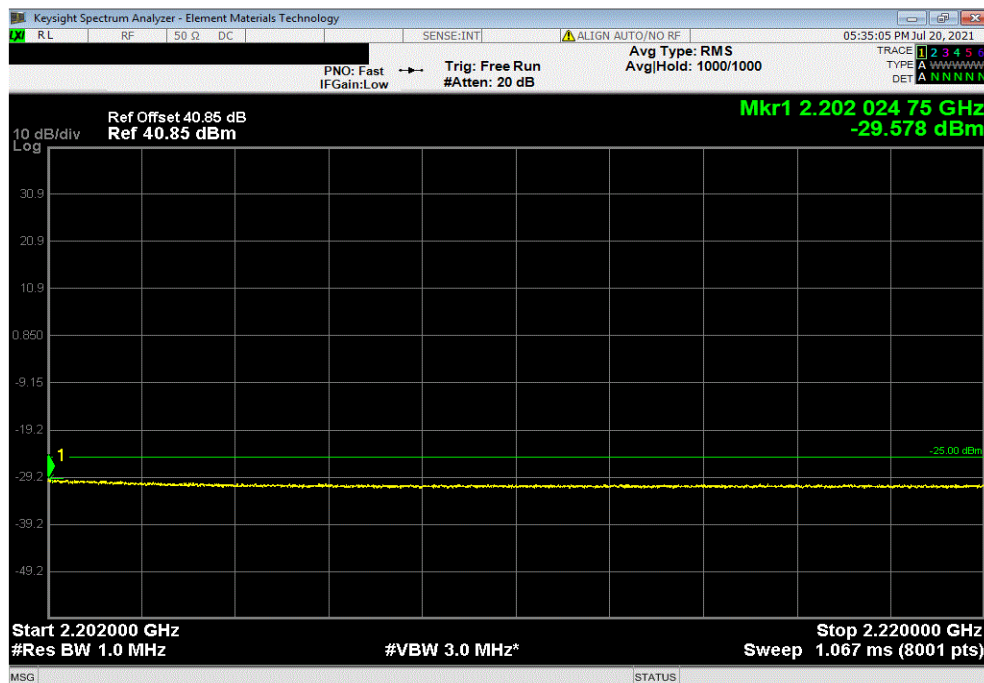


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-29.94		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2192.5 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-29.58		-25		Pass

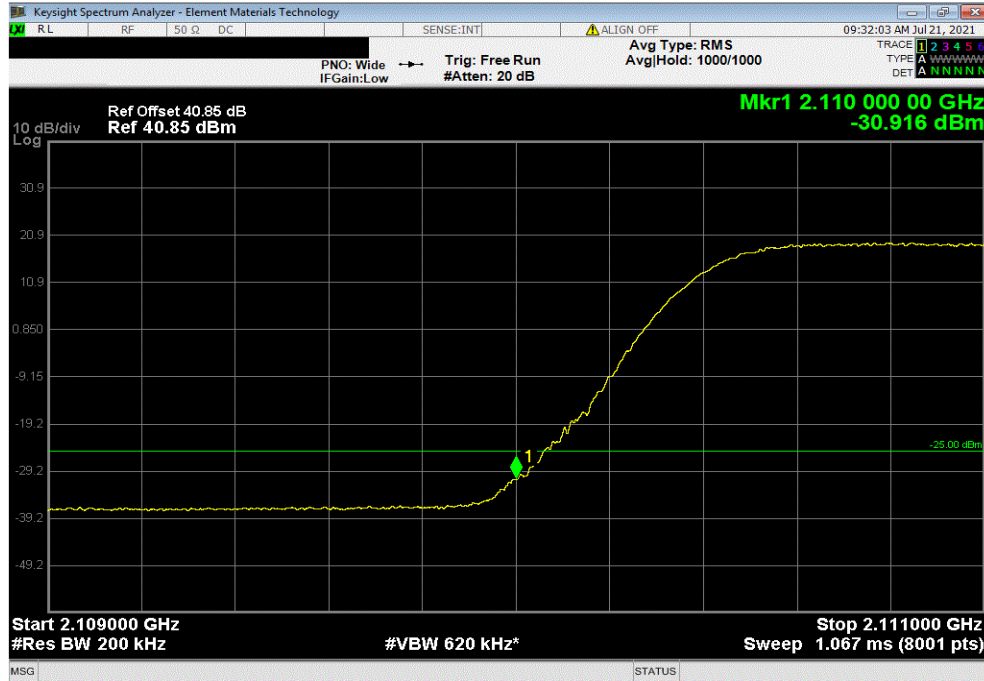


BAND EDGE COMPLIANCE

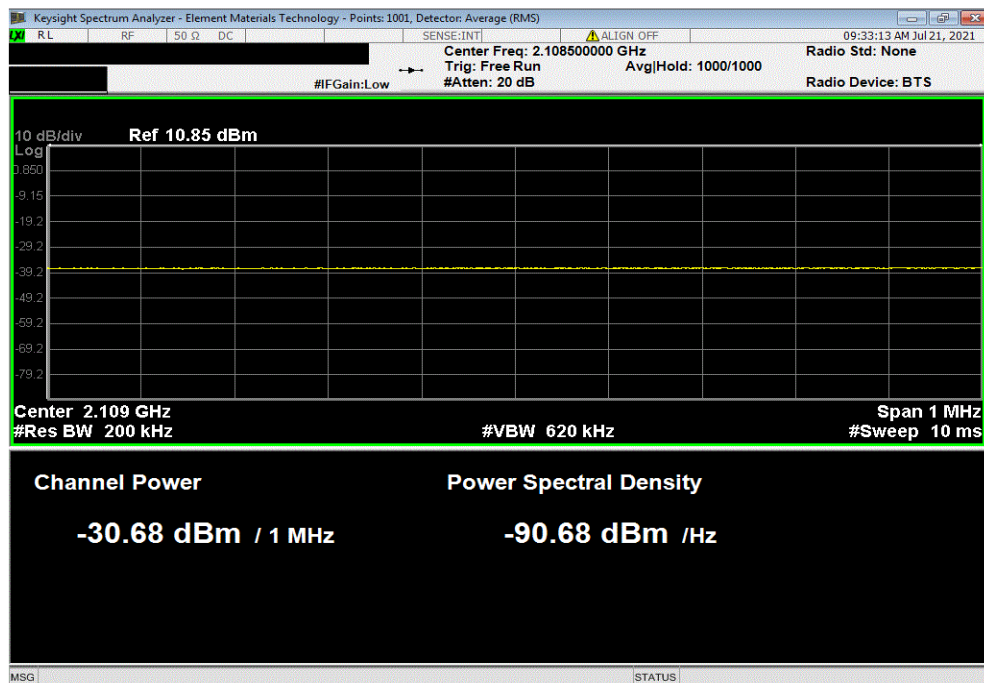


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-30.92		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.68		-25		Pass

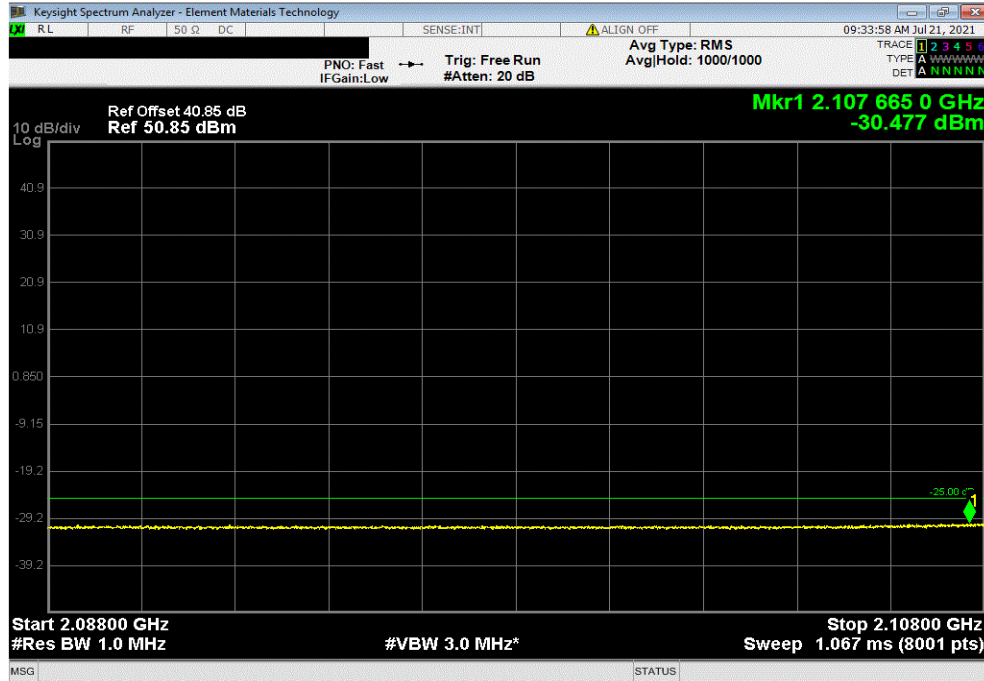


BAND EDGE COMPLIANCE

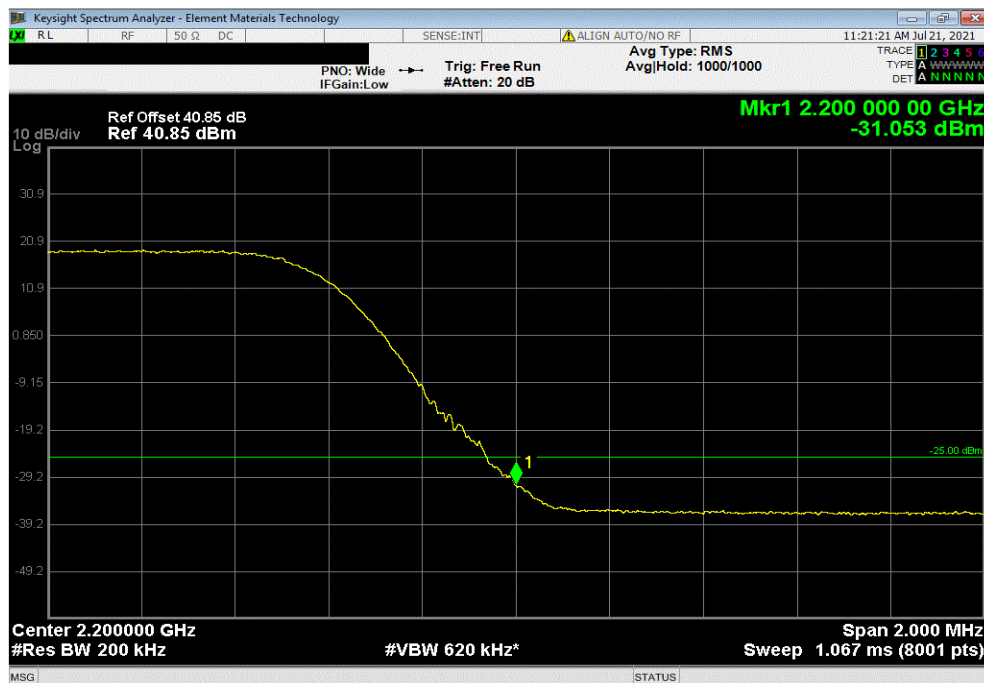


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.48		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-31.05		-25		Pass

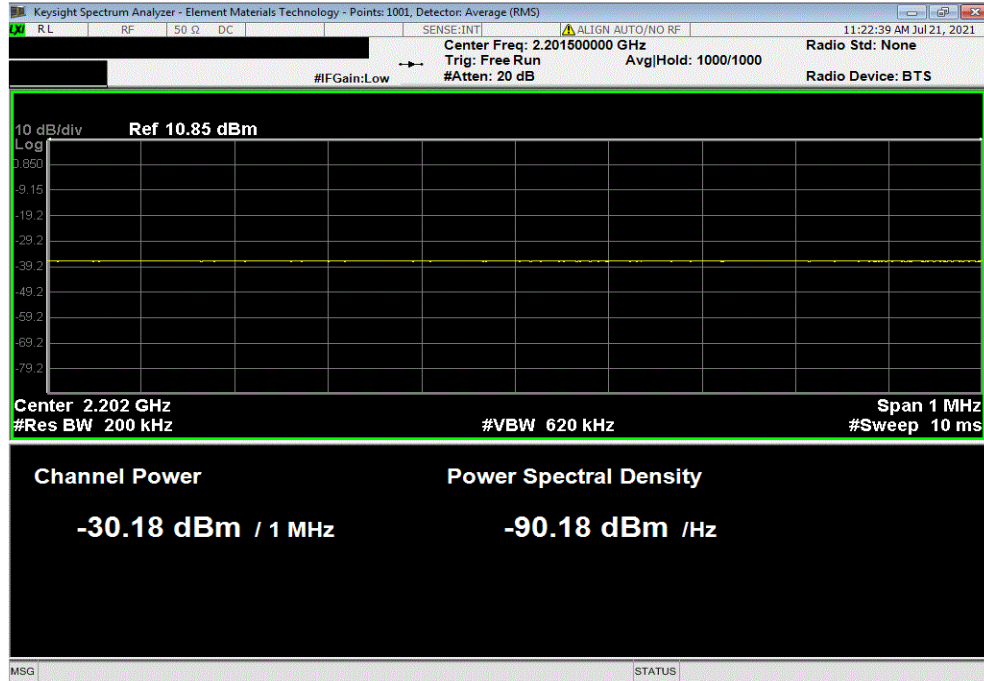


BAND EDGE COMPLIANCE

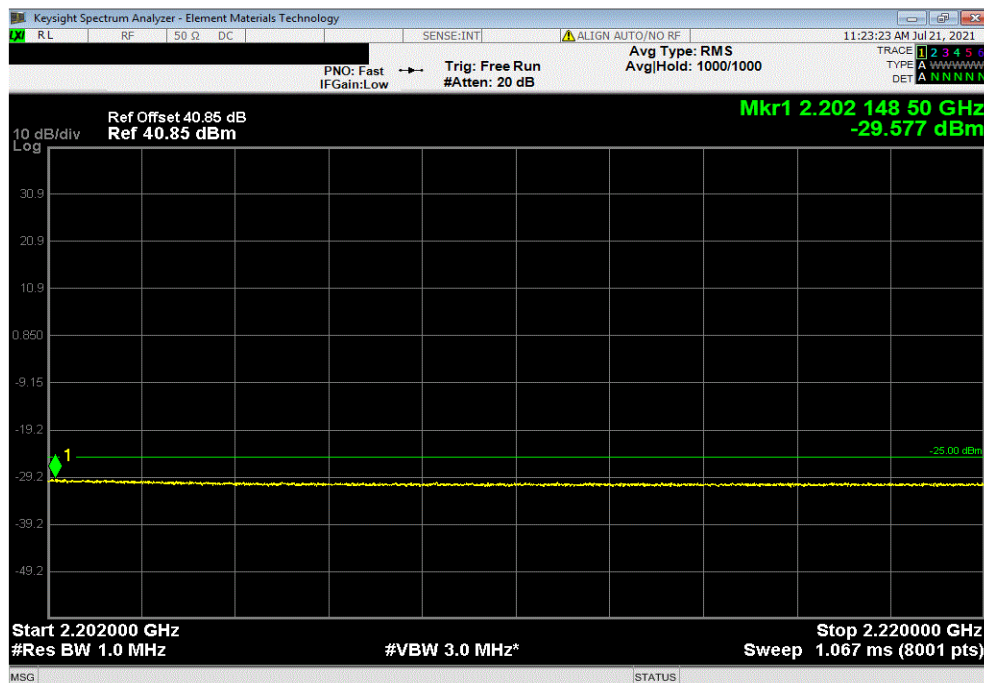


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.18	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.58	-25	Pass			

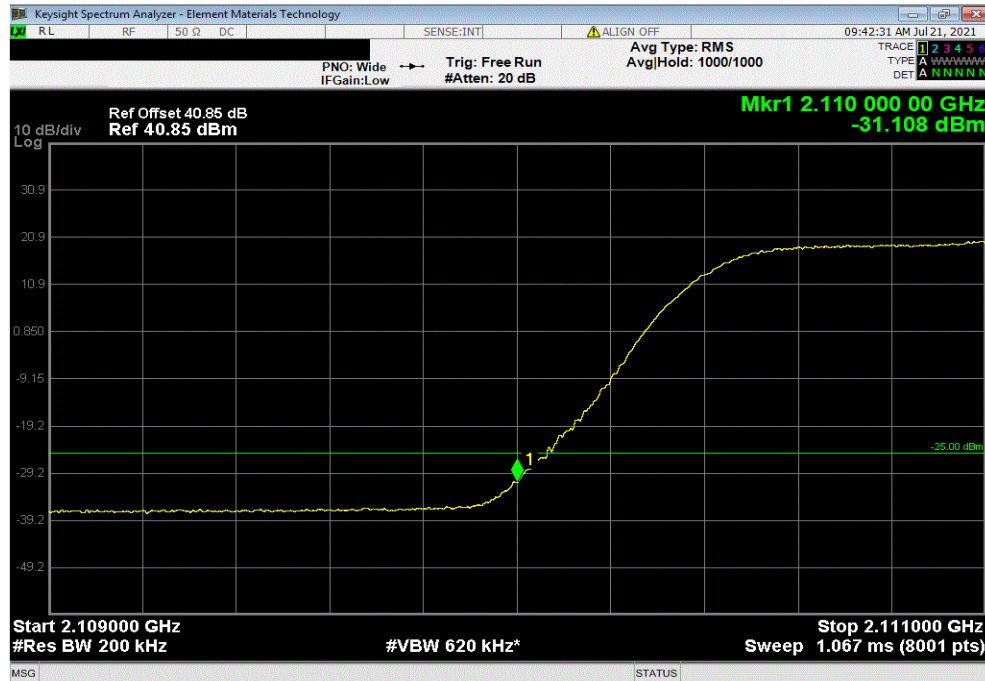


BAND EDGE COMPLIANCE

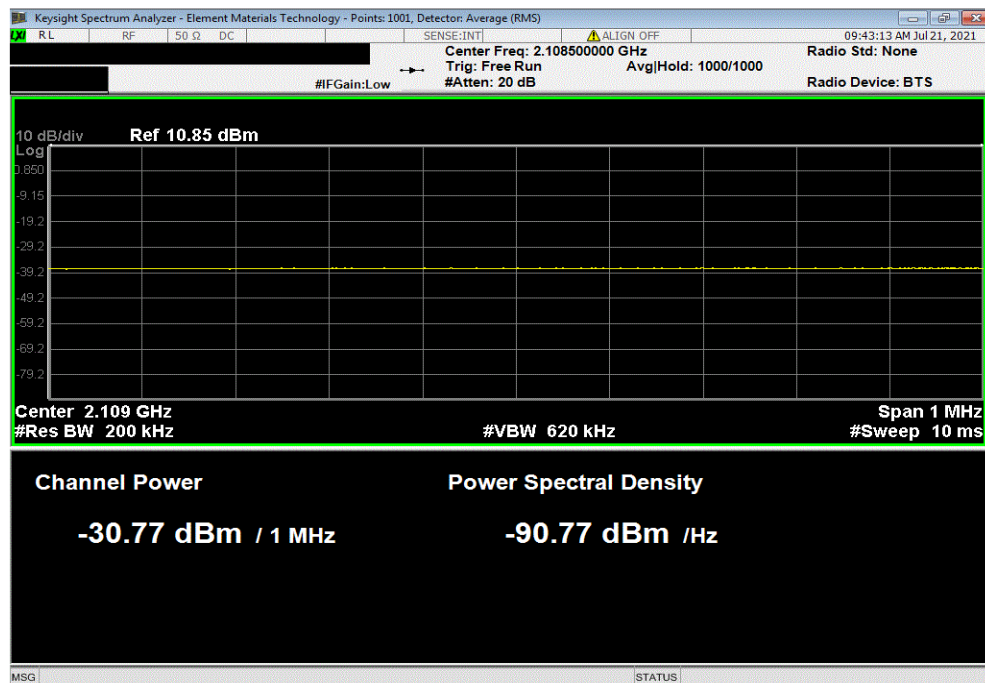


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-31.11	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.77	-25	Pass

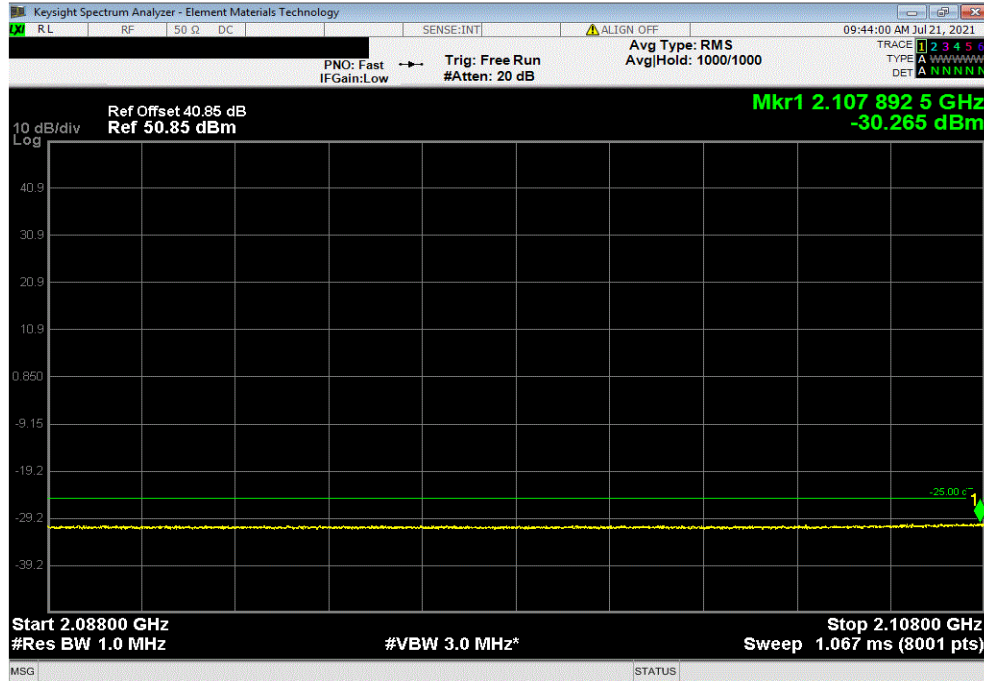


BAND EDGE COMPLIANCE

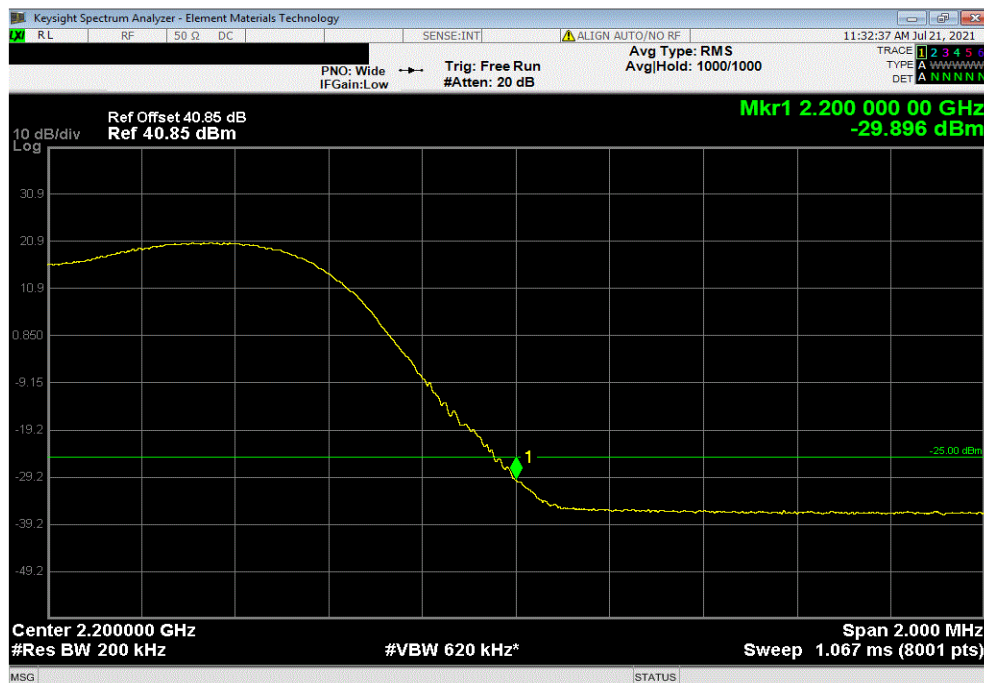


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.27	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-29.90	-25	Pass			

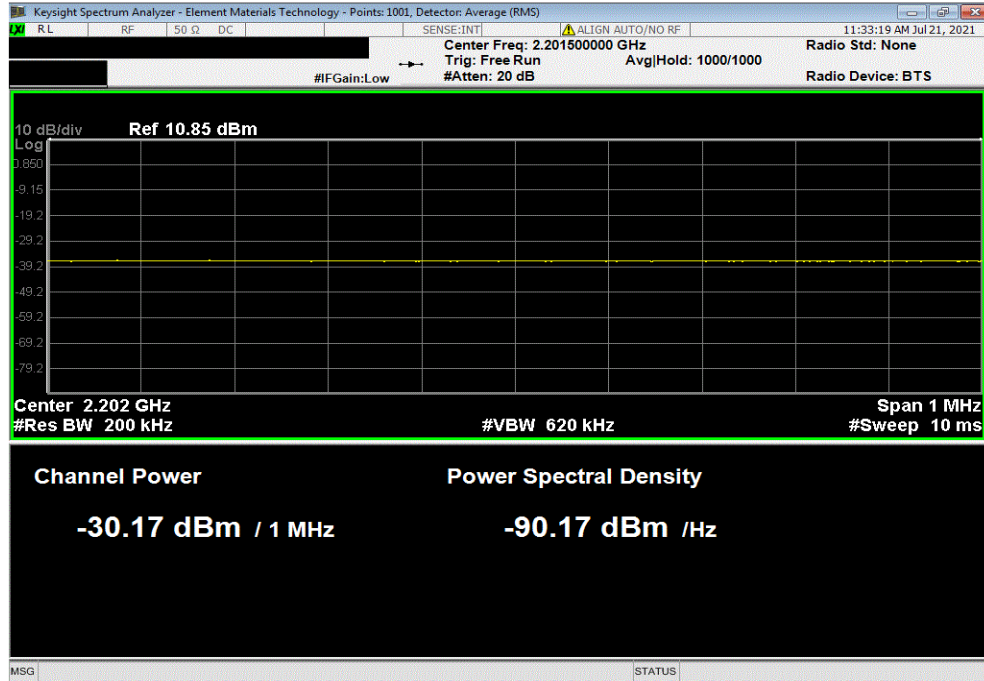


BAND EDGE COMPLIANCE

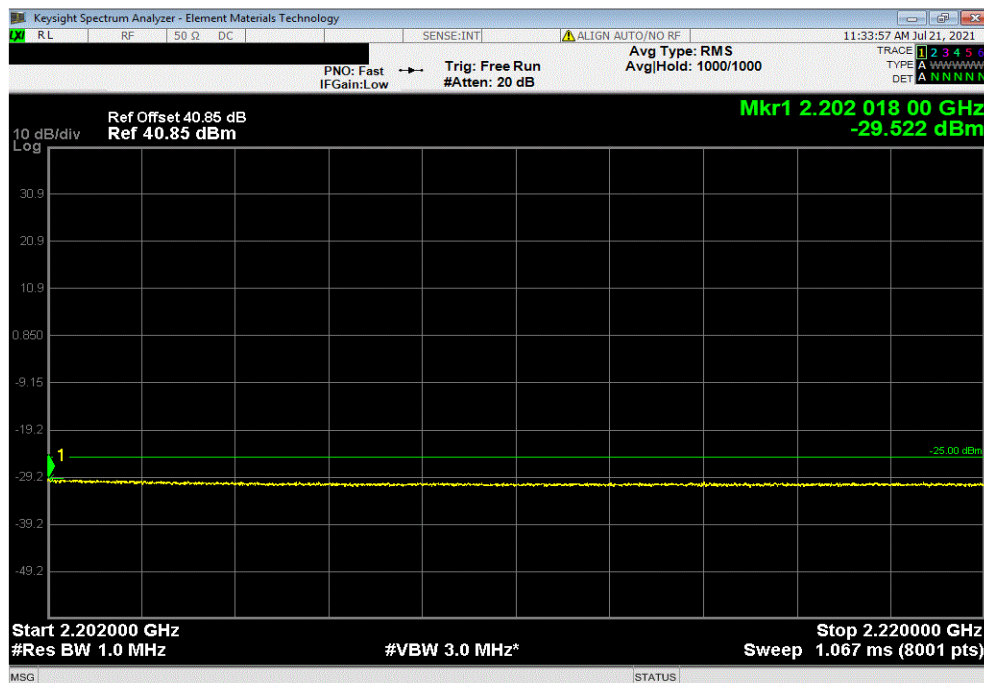


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.17	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.52	-25	Pass			

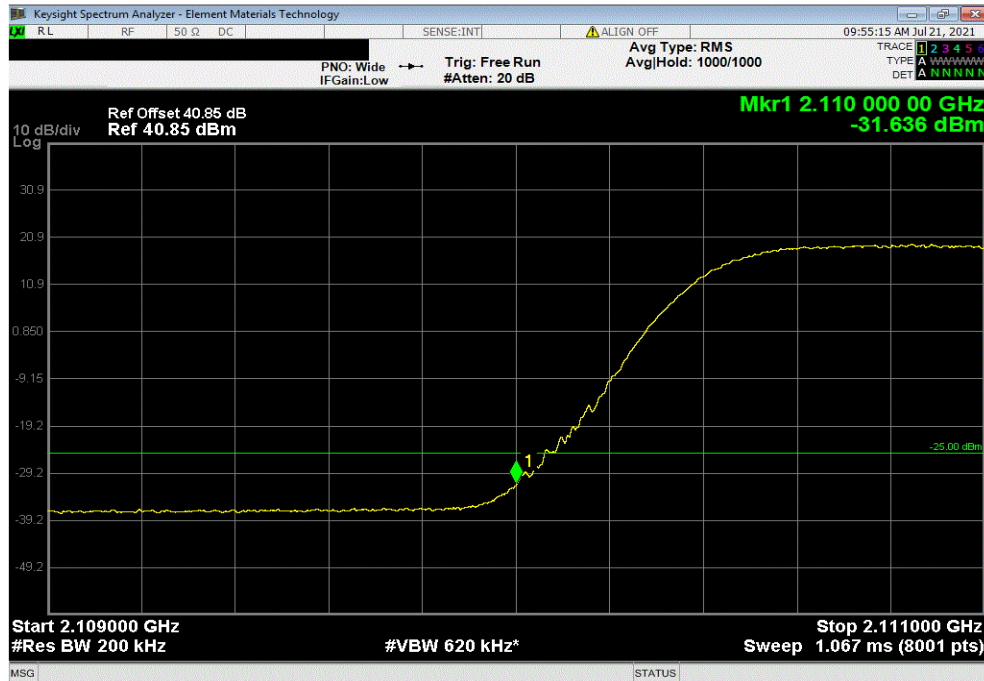


BAND EDGE COMPLIANCE

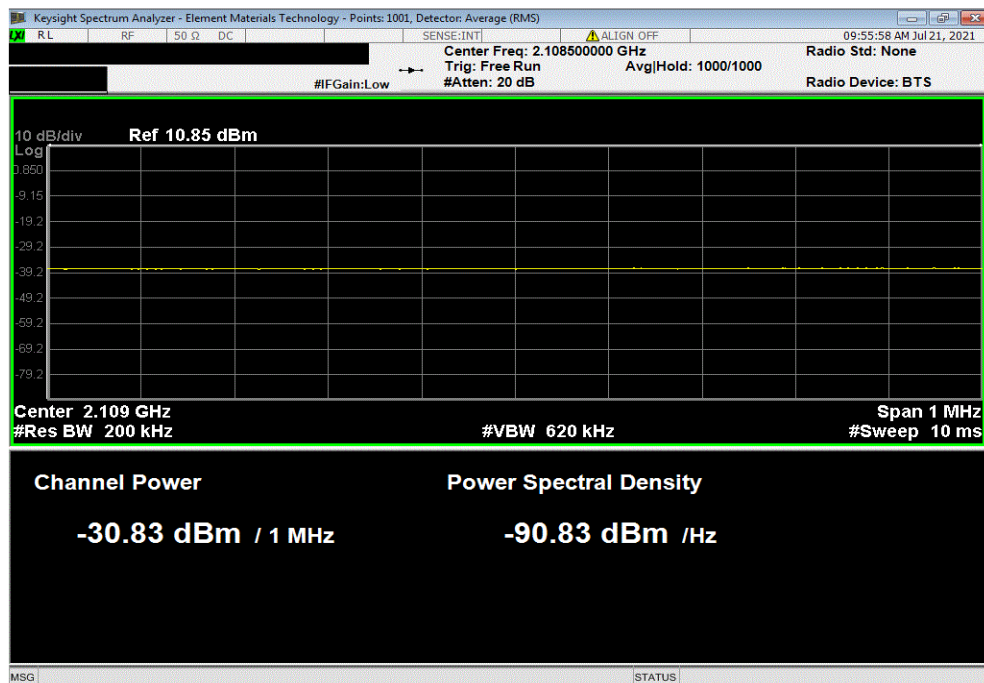


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-31.64	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.83	-25	Pass

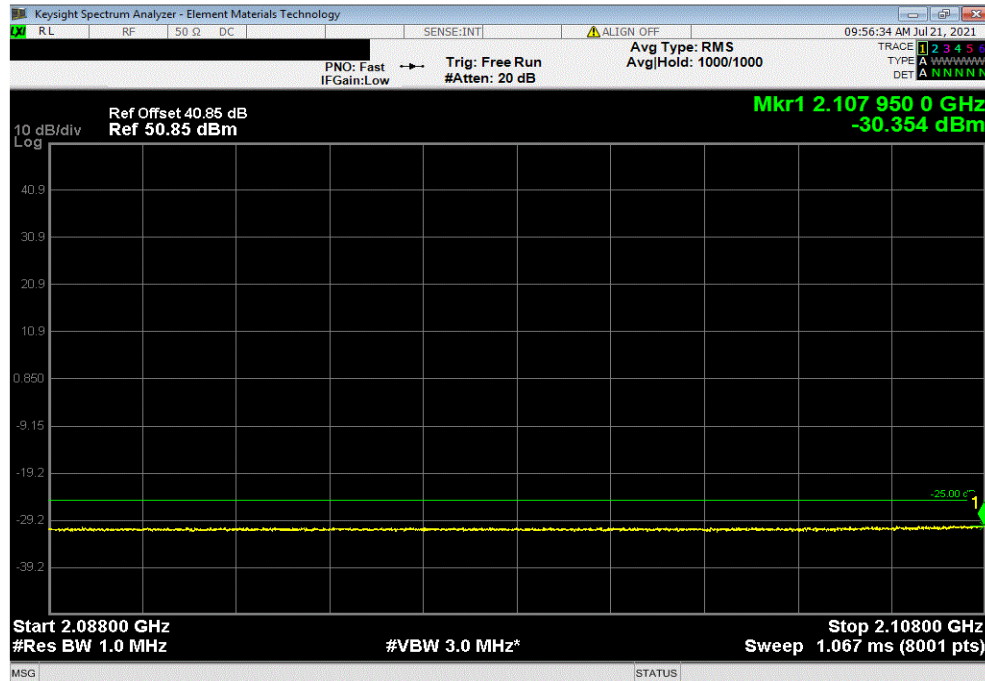


BAND EDGE COMPLIANCE

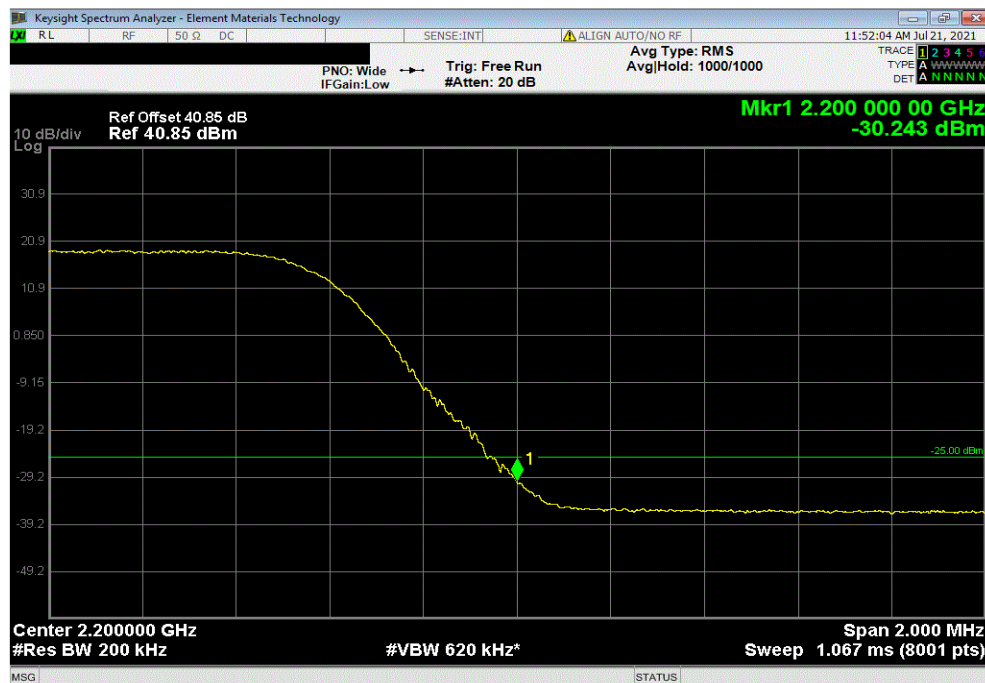


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-30.35		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
1		-30.24		-25		Pass

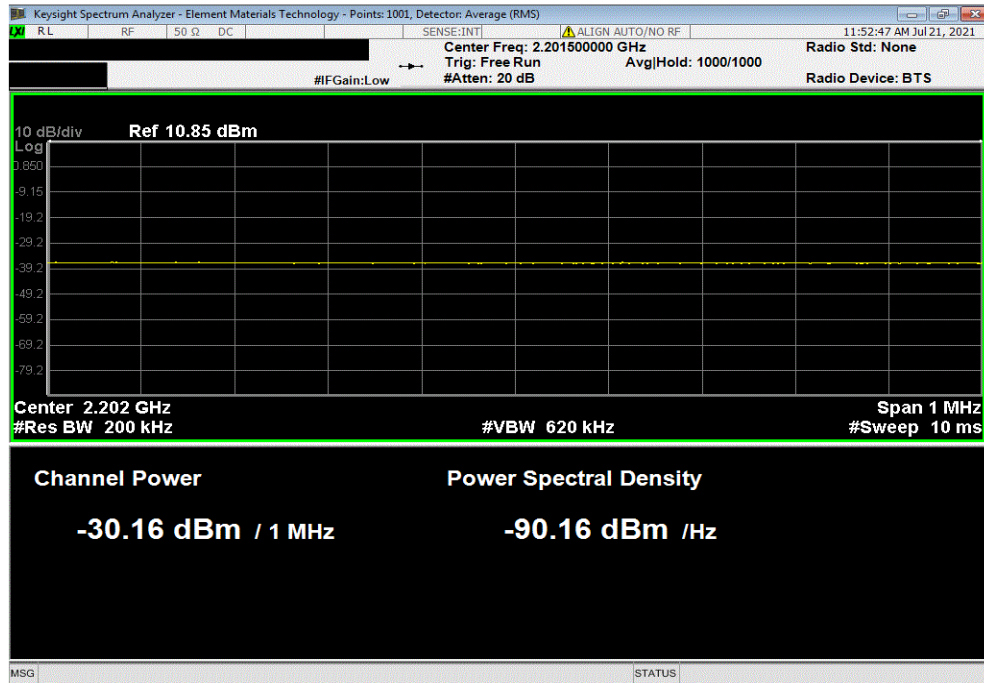


BAND EDGE COMPLIANCE

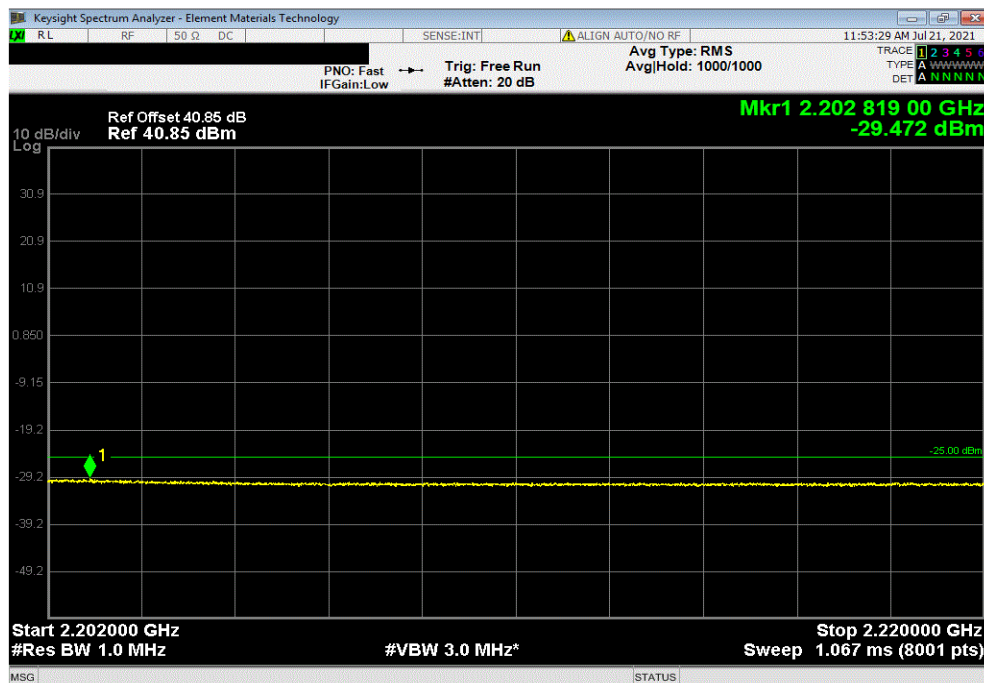


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
2		-30.16		-25		Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz						
Frequency Range		Max Value (dBm)		Limit (dBm)		Result
3		-29.47		-25		Pass

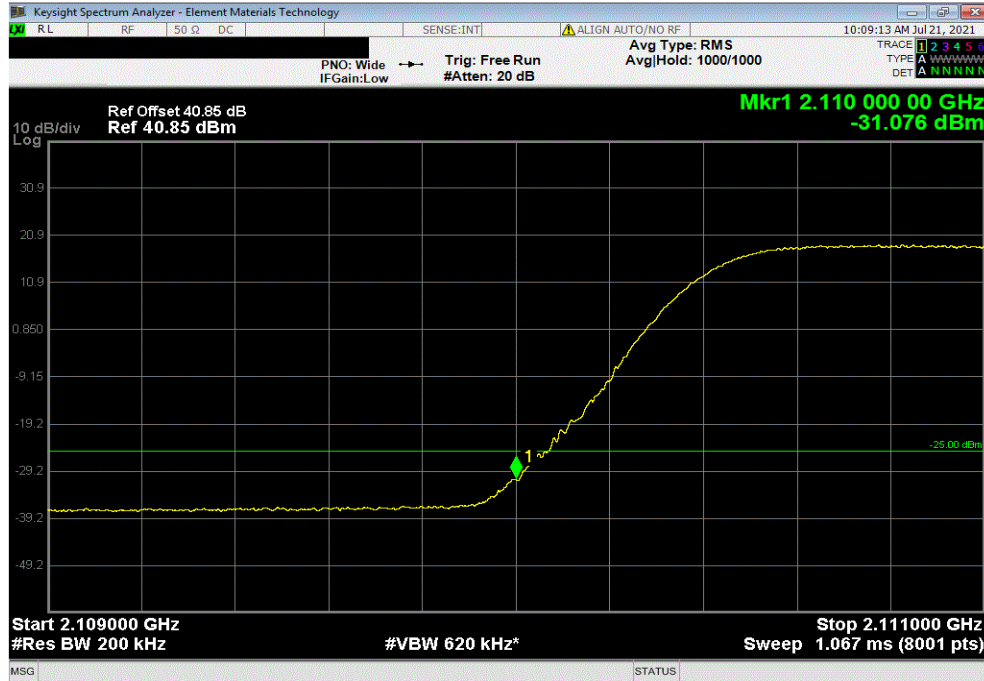


BAND EDGE COMPLIANCE

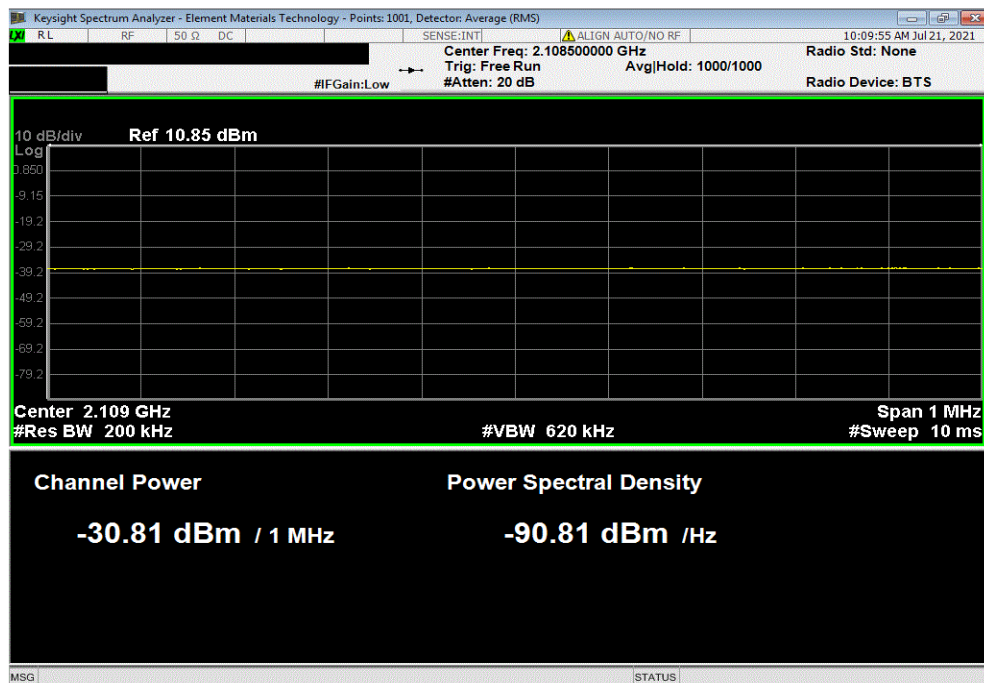


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
1				-31.08	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
Frequency Range				Max Value (dBm)	Limit (dBm)	Result
2				-30.81	-25	Pass

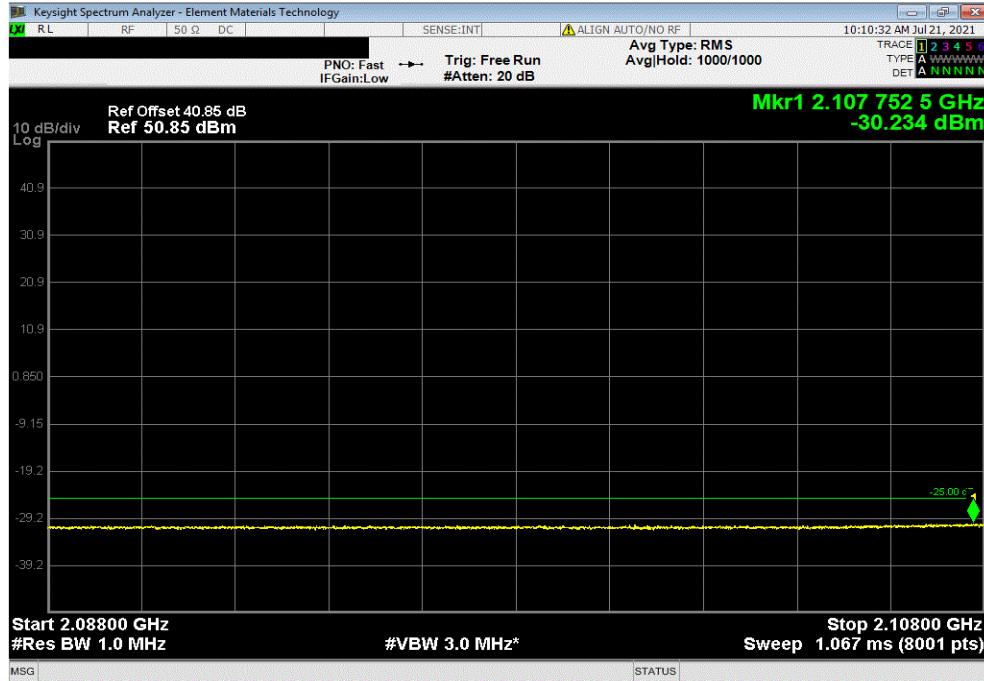


BAND EDGE COMPLIANCE

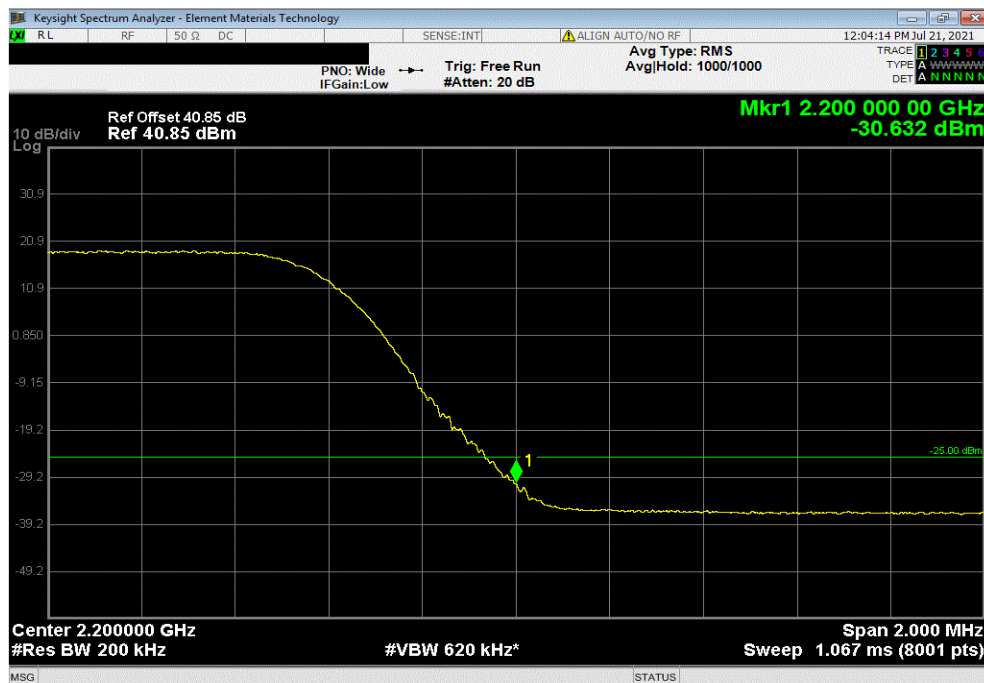


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-30.23	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
1	-30.63	-25	Pass			

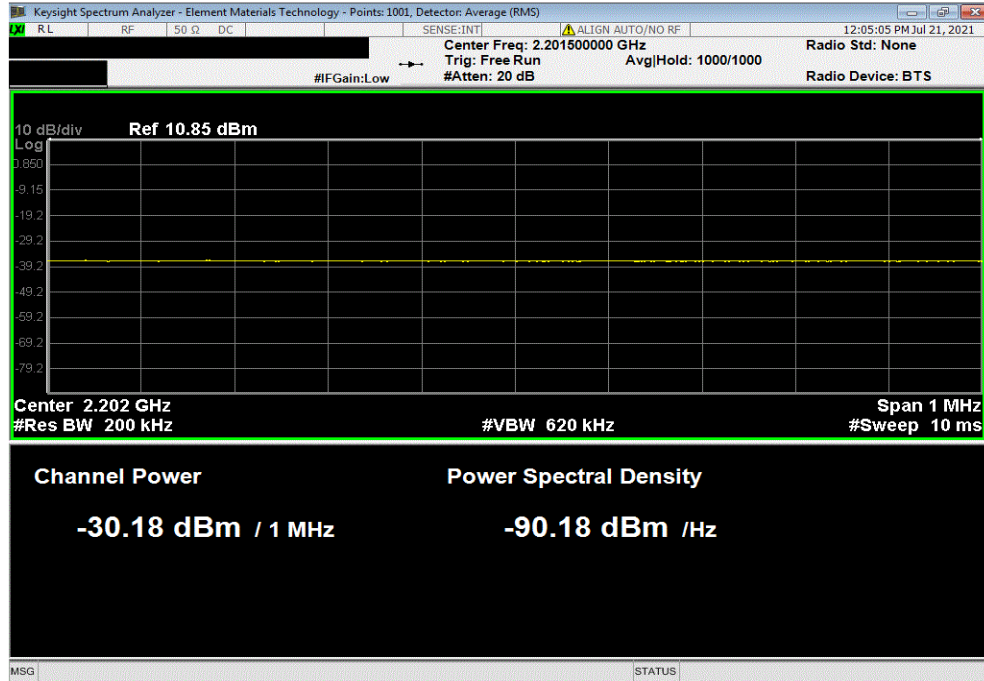


BAND EDGE COMPLIANCE



TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
2	-30.18	-25	Pass			



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Result			
3	-29.61	-25	Pass			

