

SPURIOUS CONDUCTED EMISSIONS



element

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
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3239	ANC	2021-06-24	2022-06-24

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 3 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 22 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

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 -25 dBm [-13 dBm -10 log (16)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 16 port MIMO transmitter. RF conducted emissions testing was performed on one port. The AAIB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification report) and port 1 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.

The limit for the 9kHz to 150kHz frequency range was adjusted to -55dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -55dBm = -25dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -45dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -45dBm = -25dBm -10log(1MHz/10kHz)]. The required limit of -25dBm with a RBW of > 1MHz was used for all other frequency ranges.

SPURIOUS CONDUCTED EMISSIONS



ThxTx 2021.03.19.1 XMI 2020.12.30.0

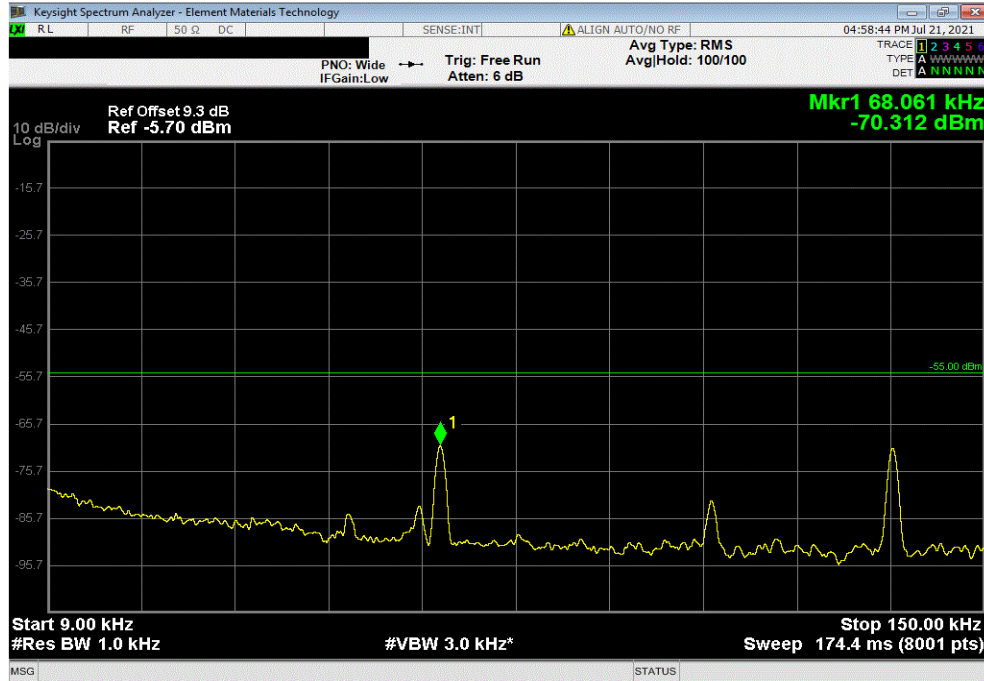
EUT: AAIB (FCC/ISED C2PC)		Work Order: NOKI0030	
Serial Number: BL2032123Y0		Date: 22-Jul-21	
Customer: Nokia Solutions and Networks		Temperature: 21.3 °C	
Attendees: David Le, Mitchell Hill		Humidity: 54.5% RH	
Project: None		Barometric Pres.: 1024 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	Job Site: TX09
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).			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1,2,3	Signature 	
		Frequency Range	Value (dBm) Limit (dBm) Result
Port 1, Band n66, 2110 MHz - 2200 MHz			
5 MHz Bandwidth			
QPSK Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-70.3 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.2 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-31.8 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-34.8 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-40.0 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.0 -25 Pass
16-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.9 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.4 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-32.2 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-34.9 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-40.8 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.0 -25 Pass
64-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.4 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.1 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-31.4 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-34.8 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-40.6 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-34.5 -25 Pass
256-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.8 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.7 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-32.0 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-35.0 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-41.1 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.0 -25 Pass
10 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.2 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.7 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-30.6 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-34.8 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-41.3 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.0 -25 Pass
15 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.7 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-78.2 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-31.6 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-35.0 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-41.3 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.0 -25 Pass
20 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2155 MHz	9 kHz - 150 kHz	-68.2 -55 Pass
	Mid Channel 2155 MHz	150 kHz - 20 MHz	-77.7 -45 Pass
	Mid Channel 2155 MHz	20 MHz - 3 GHz	-31.1 -25 Pass
	Mid Channel 2155 MHz	2100 MHz - 2210 MHz	-34.6 -25 Pass
	Mid Channel 2155 MHz	3 GHz - 12 GHz	-41.5 -25 Pass
	Mid Channel 2155 MHz	12 GHz - 22 GHz	-35.1 -25 Pass

SPURIOUS CONDUCTED EMISSIONS

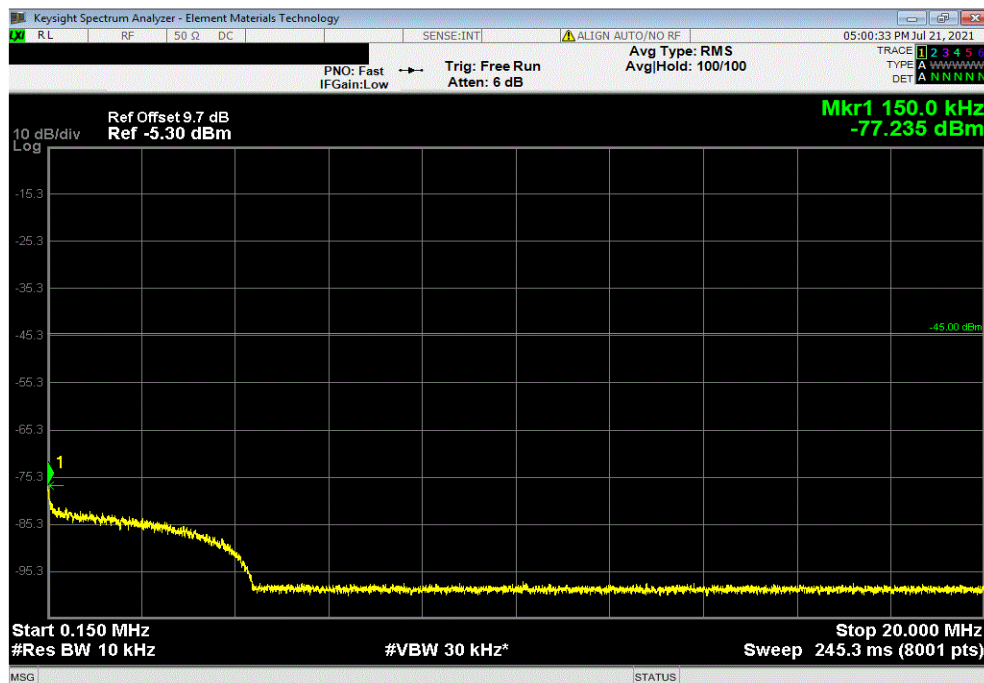


TbTtx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, Mid Channel 2155 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	9 kHz - 150 kHz			-70.31	-55	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, Mid Channel 2155 MHz					
Frequency			Value (dBm)	Limit (dBm)	Result
Range					
150 kHz - 20 MHz			-77.24	-45	Pass

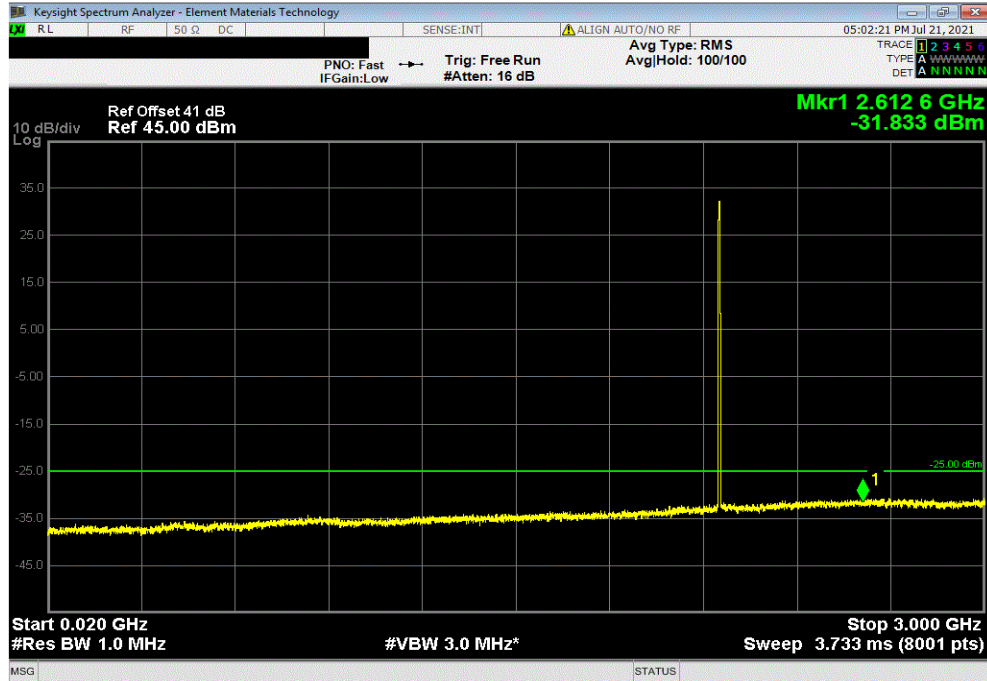


SPURIOUS CONDUCTED EMISSIONS

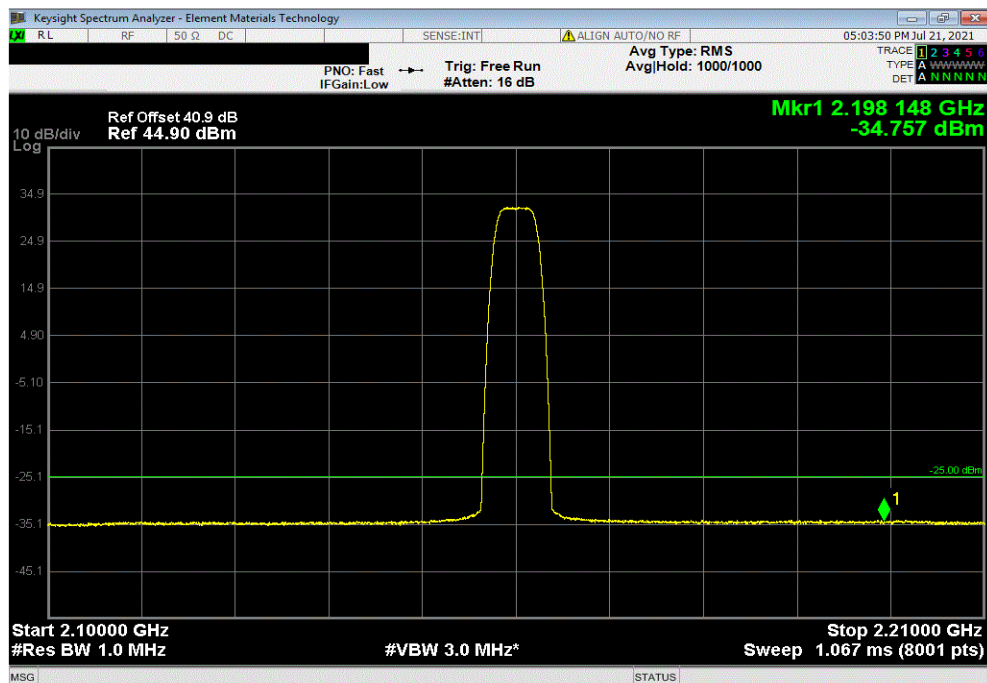


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
20 MHz - 3 GHz		-31.83		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
2100 MHz - 2210 MHz		-34.76		-25	Pass

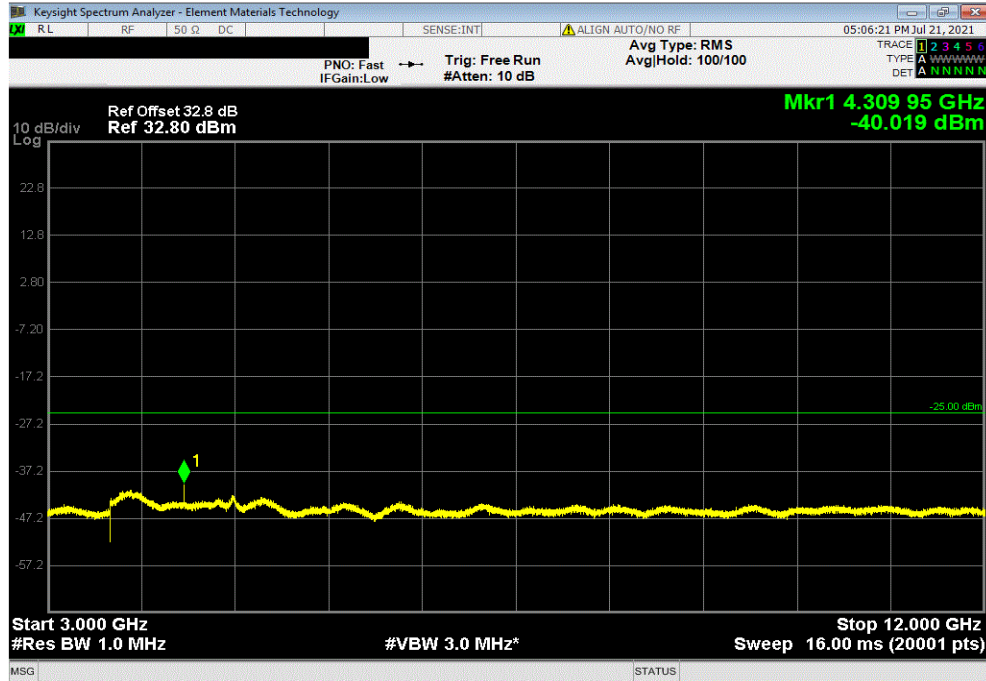


SPURIOUS CONDUCTED EMISSIONS

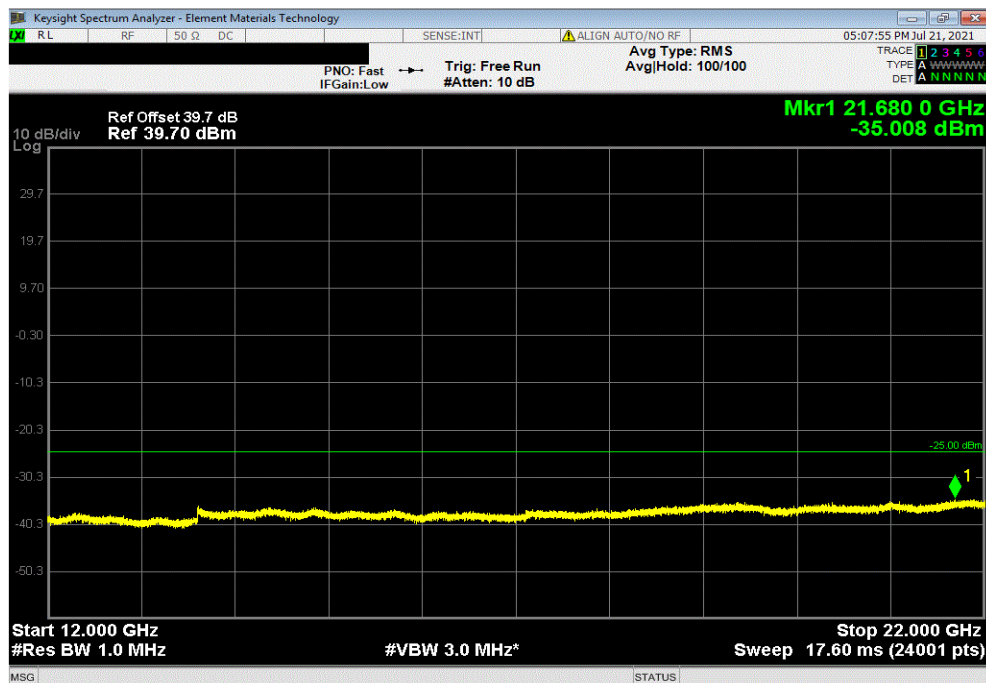


TbTtx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-40.02		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-35.01		-25	Pass

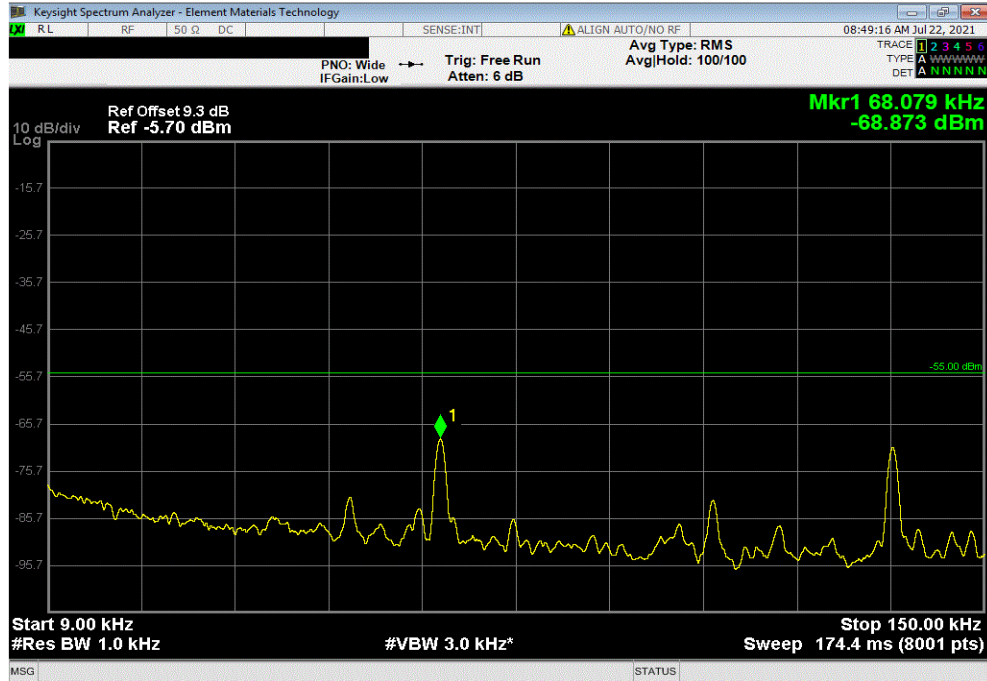


SPURIOUS CONDUCTED EMISSIONS

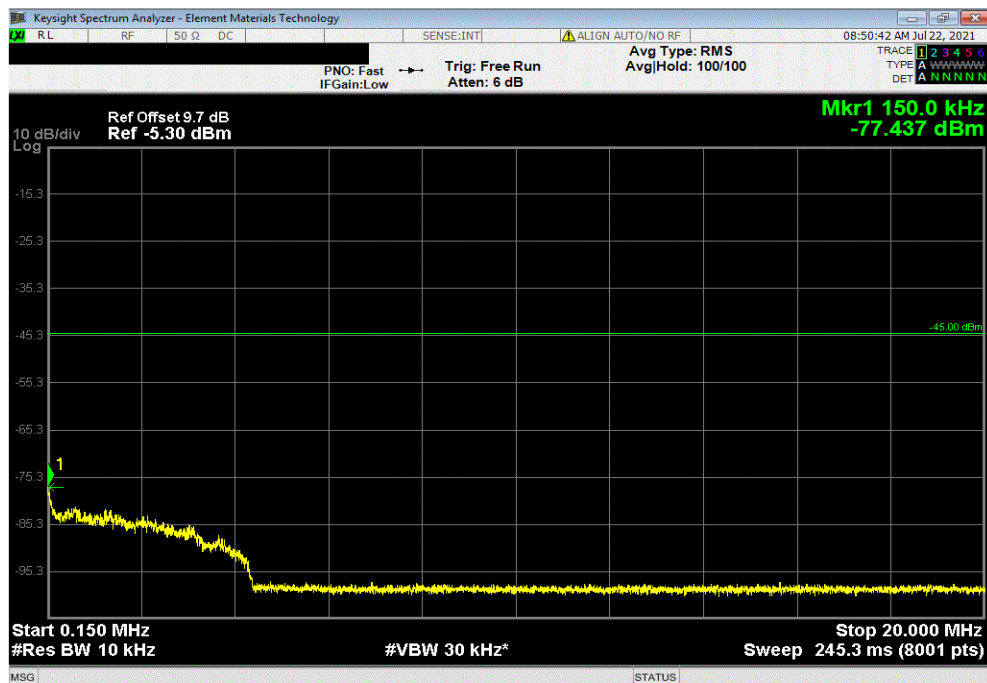


TbTtx 2021.03.19.1 XMit 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
9 kHz - 150 kHz		-68.87		-55	
				Pass	



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
150 kHz - 20 MHz		-77.44		-45	
				Pass	

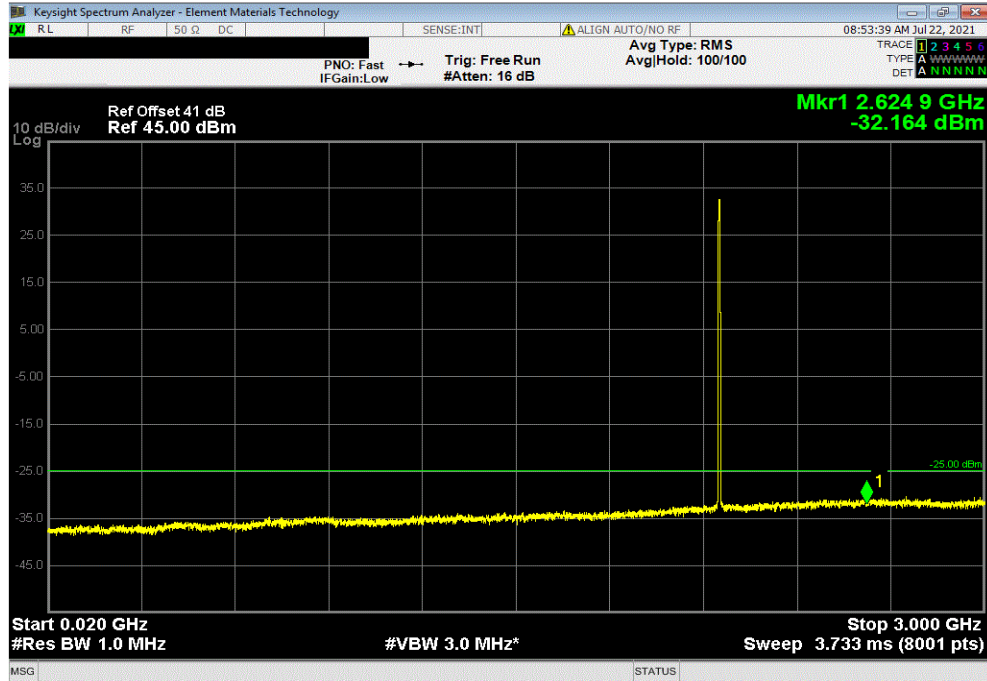


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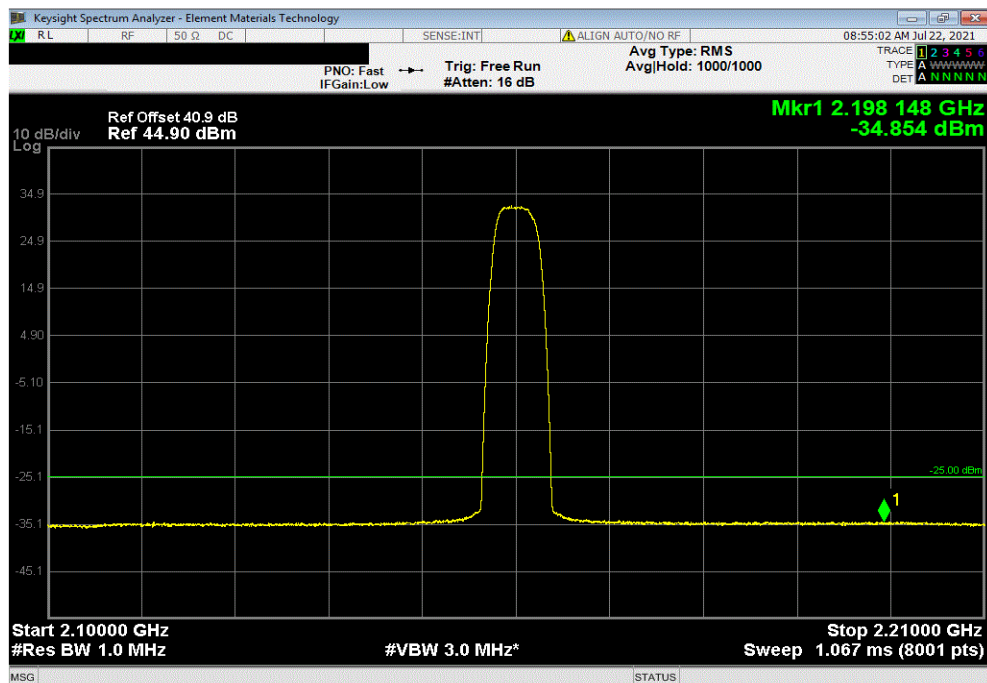


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
20 MHz - 3 GHz		-32.16		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
2100 MHz - 2210 MHz		-34.85		-25	Pass

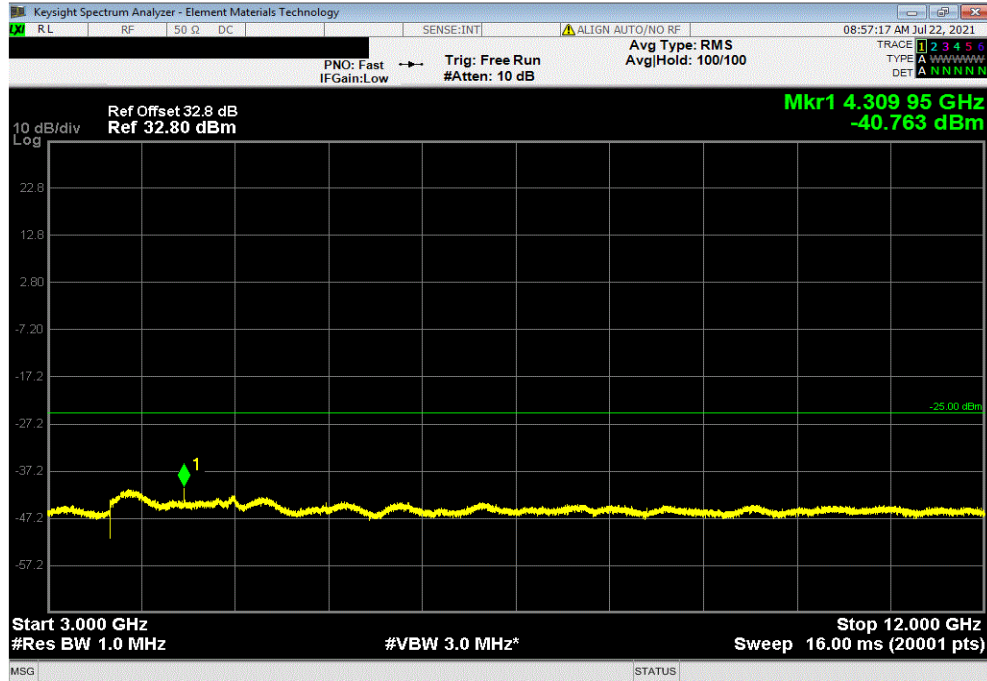


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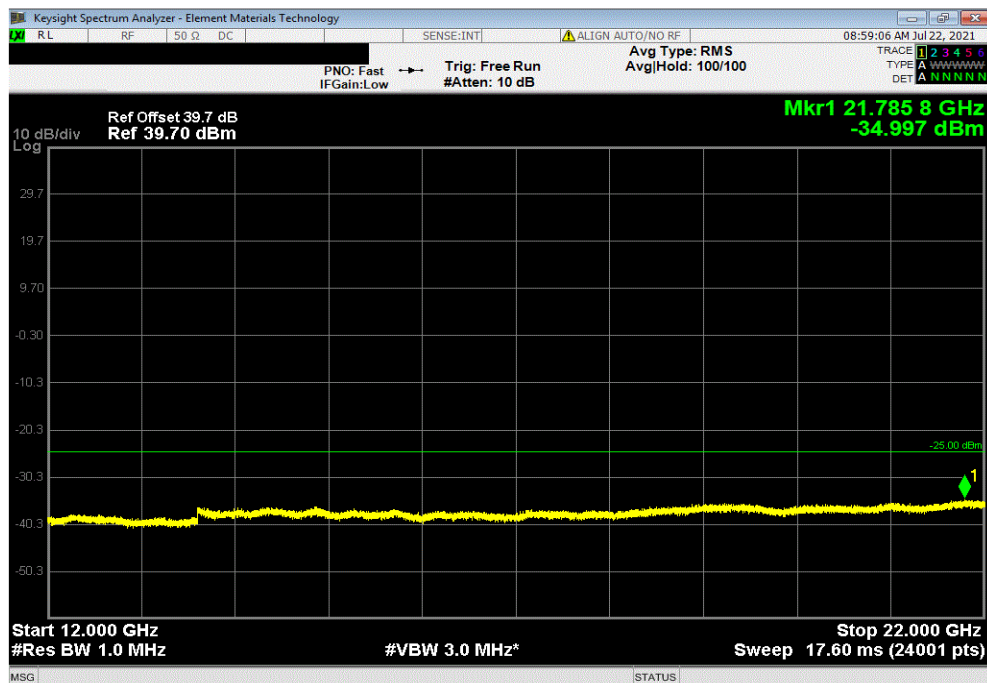


TbTtx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-40.76		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-35		-25	Pass

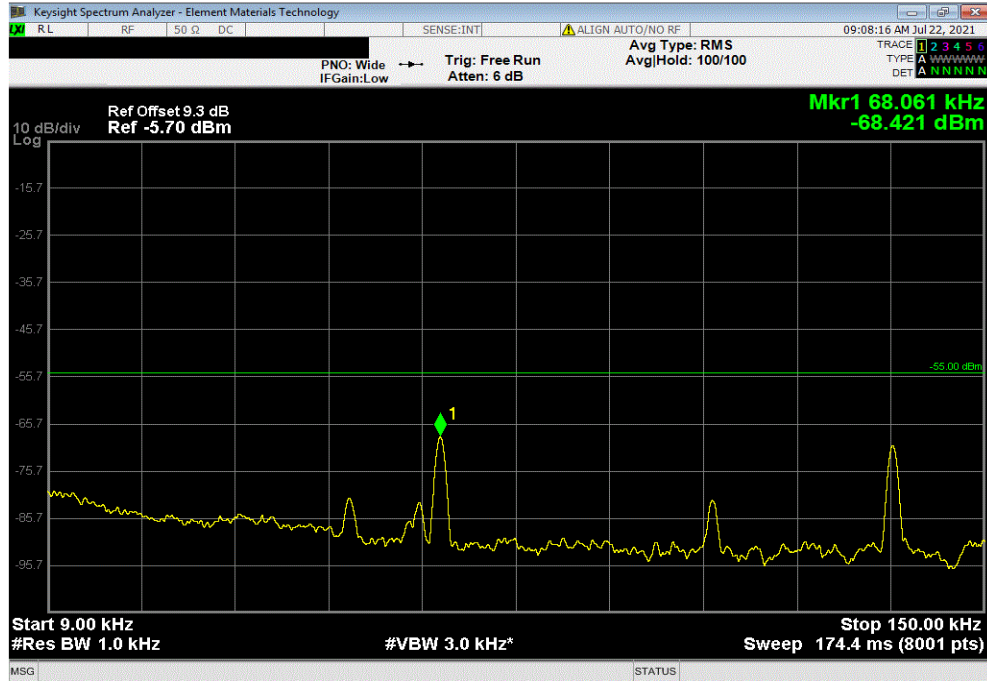


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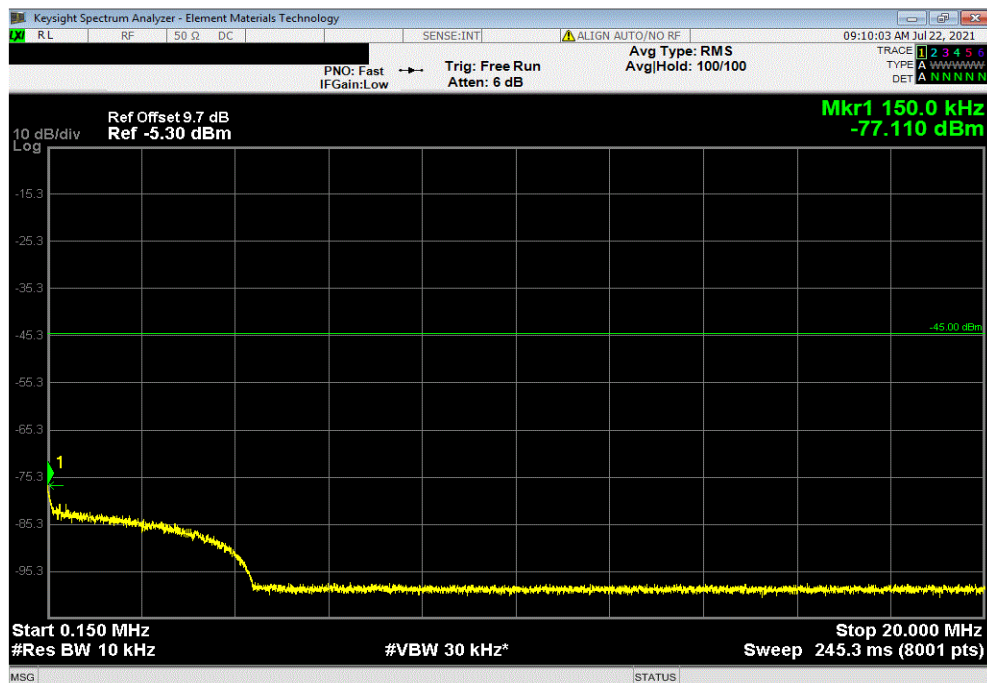


TbTx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
9 kHz - 150 kHz		-68.42		-55	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
150 kHz - 20 MHz		-77.11		-45	Pass

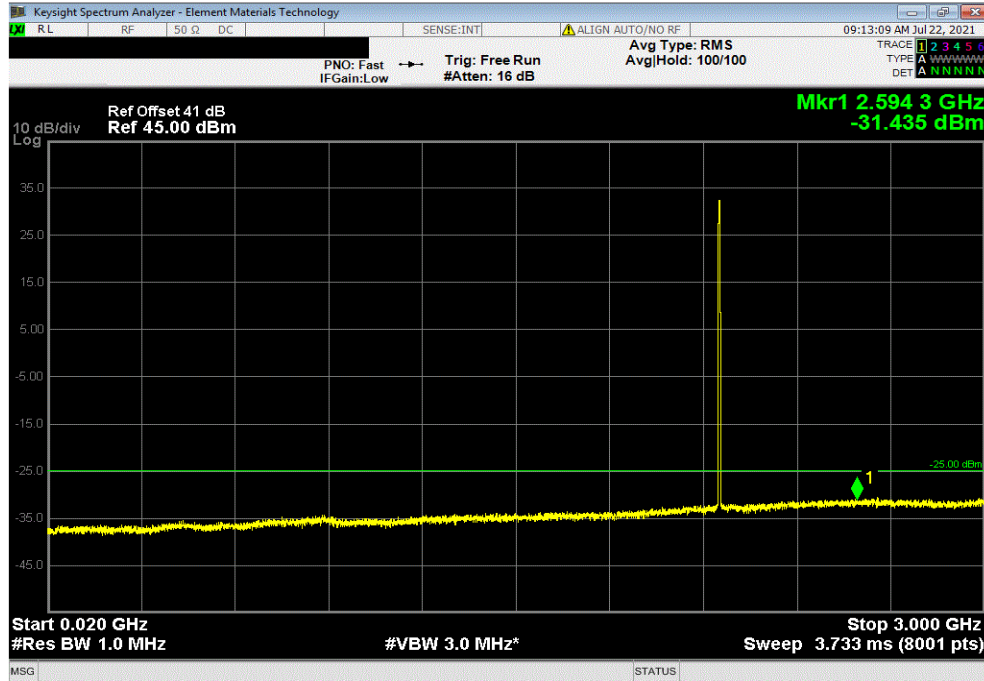


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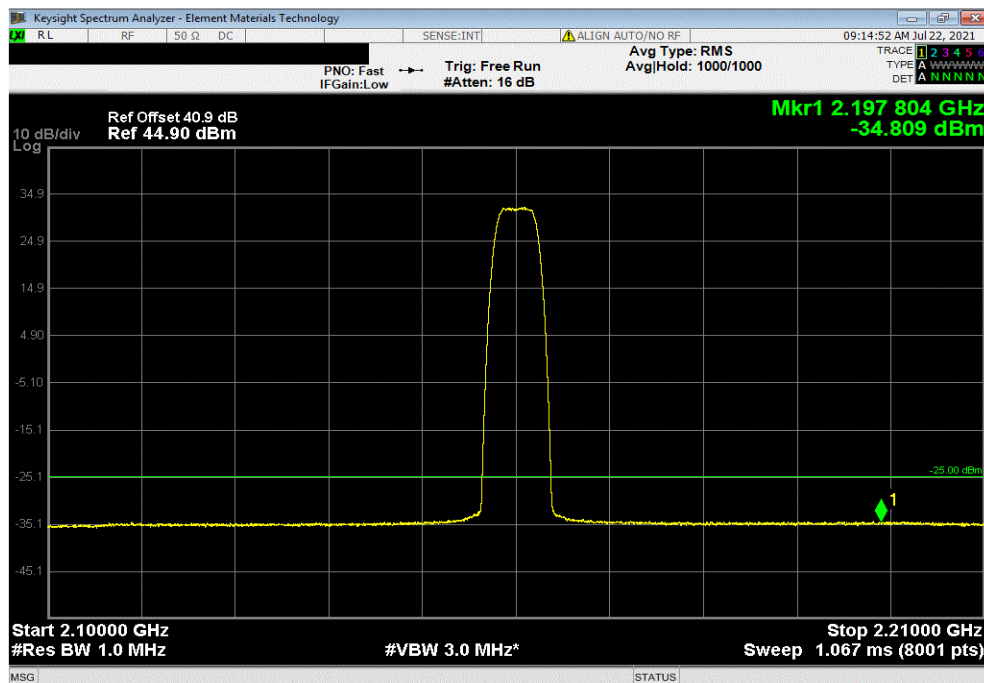


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
20 MHz - 3 GHz		-31.44		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
2100 MHz - 2210 MHz		-34.81		-25	Pass

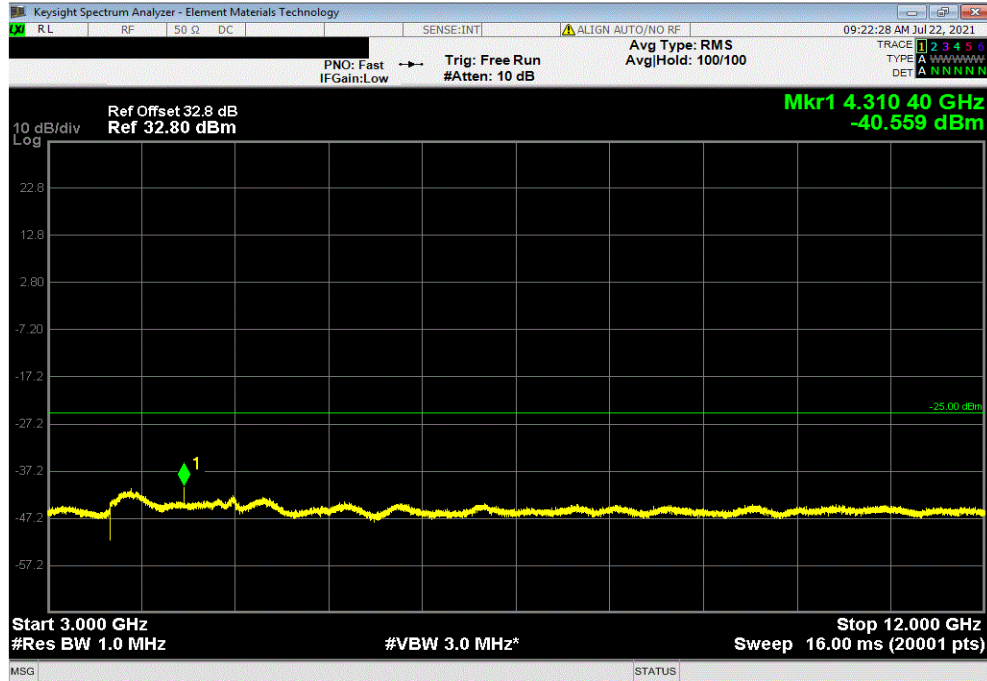


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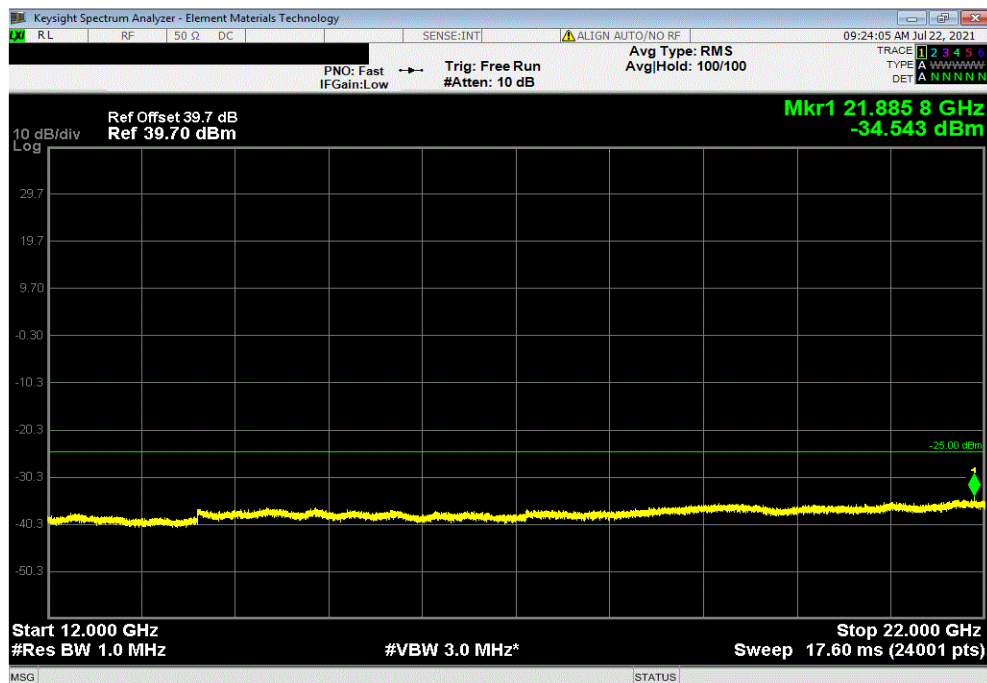


TbTtx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-40.56		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-34.54		-25	Pass

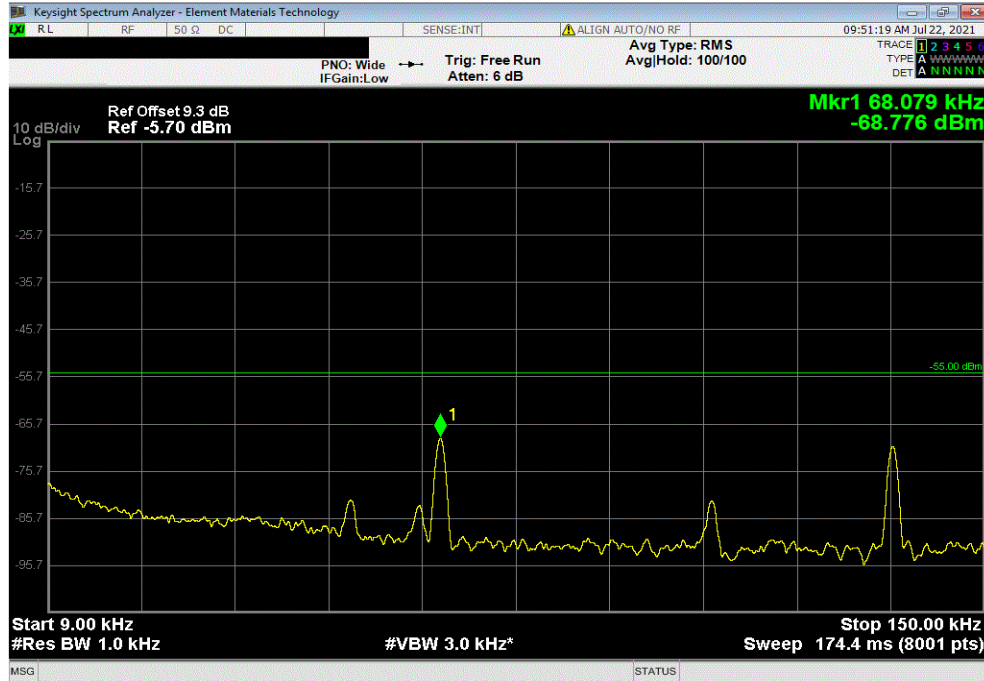


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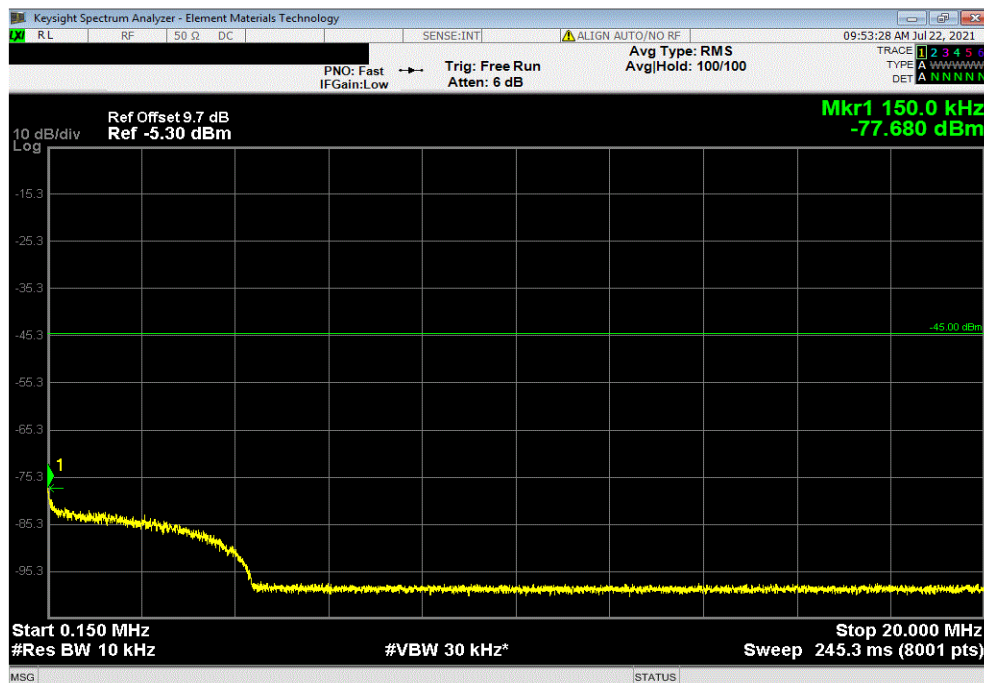


TbTtx 2021.03.19.1 XMit 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
9 kHz - 150 kHz		-68.78		-55	
				Pass	



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
150 kHz - 20 MHz		-77.68		-45	
				Pass	

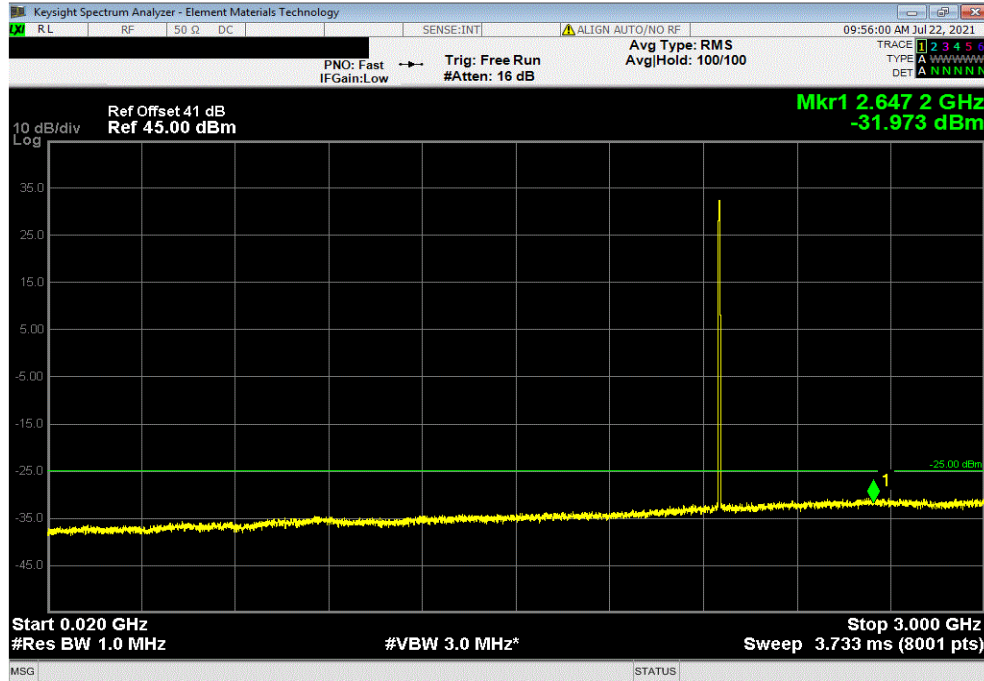


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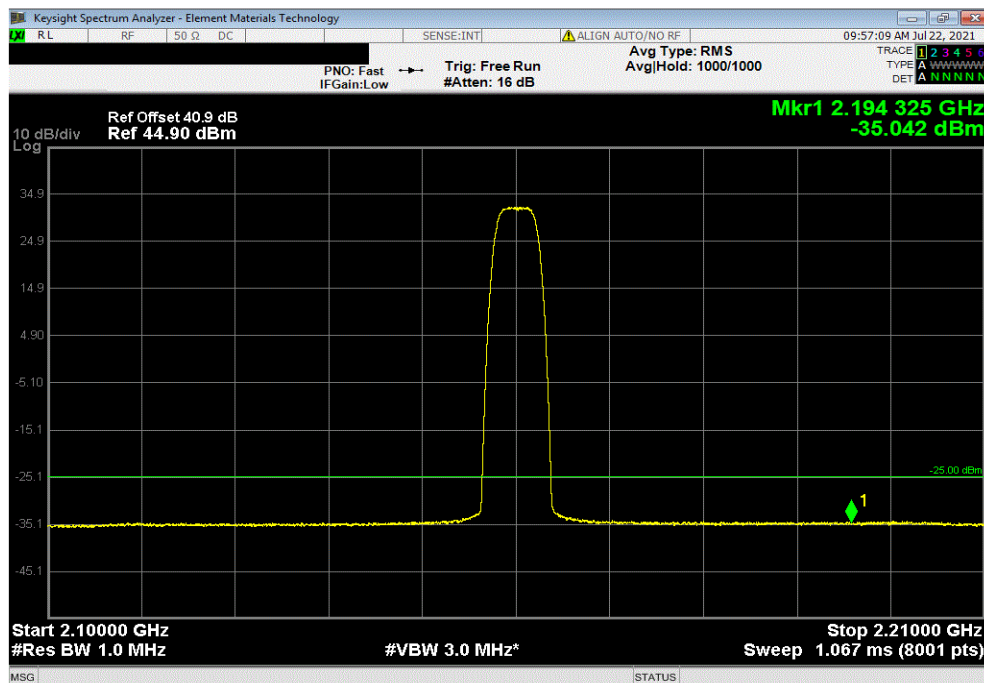


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz						
Frequency						
	Range		Value (dBm)	Limit (dBm)	Result	
	20 MHz - 3 GHz		-31.97	-25	Pass	



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz						
Frequency		Value (dBm)		Limit (dBm)	Result	
Range						
2100 MHz - 2210 MHz				-35.04	-25	Pass

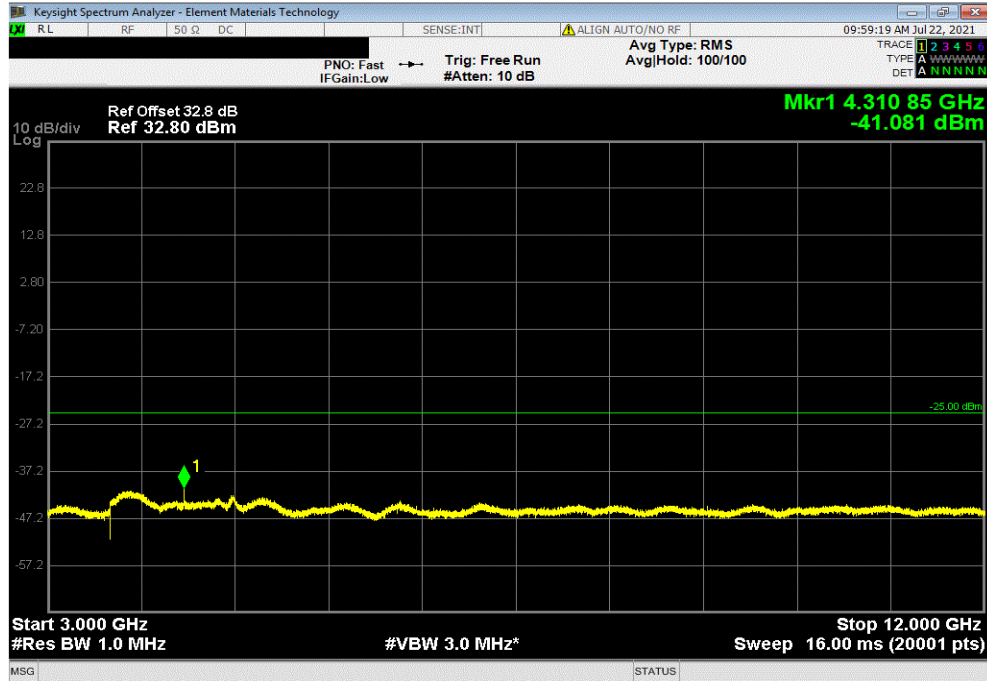


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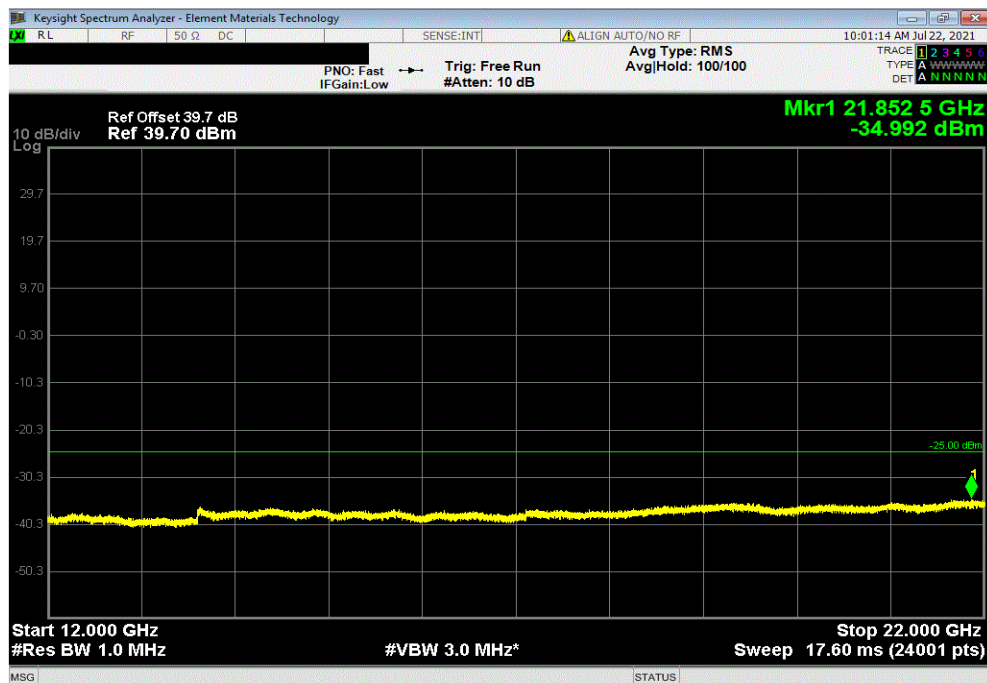


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-41.08		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-34.99		-25	Pass

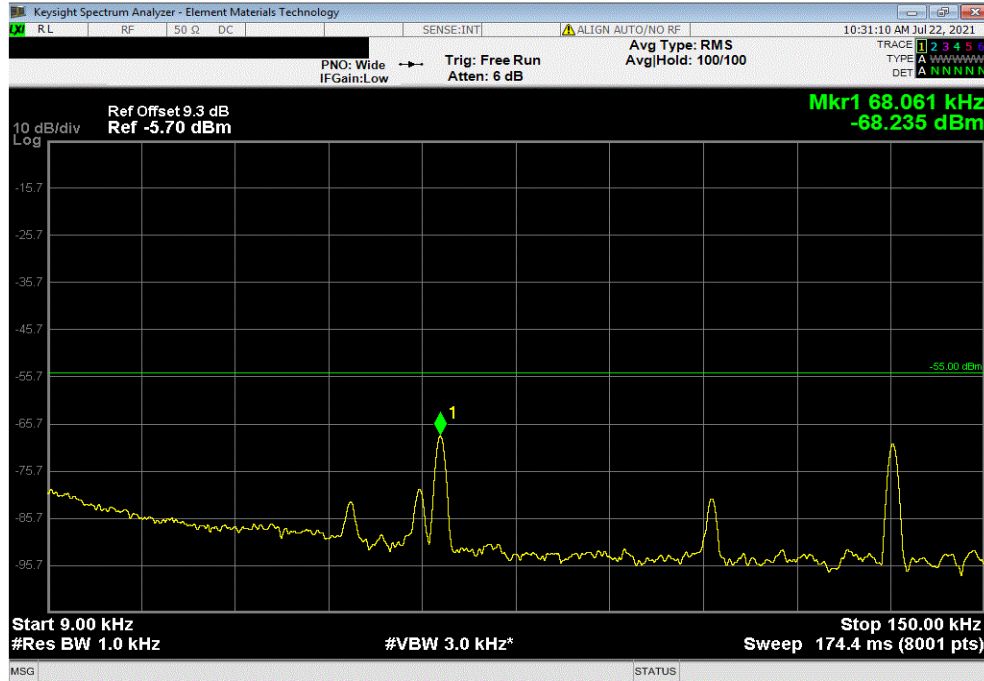


SPURIOUS CONDUCTED EMISSIONS

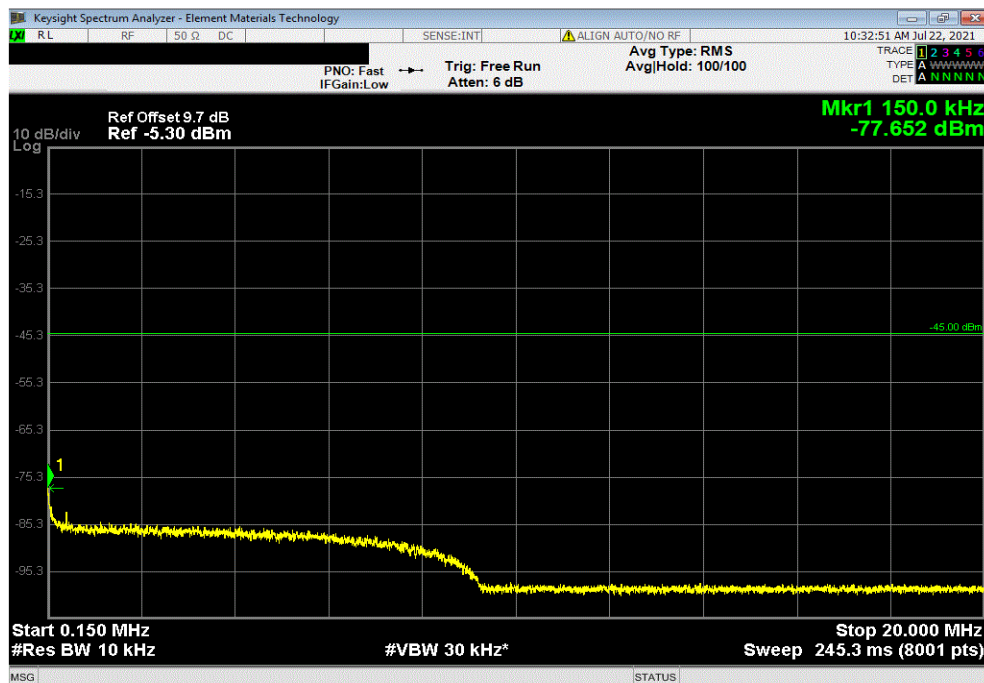


TbTtx 2021.03.19.1 XMit 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
9 kHz - 150 kHz		-68.24		-55	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
150 kHz - 20 MHz		-77.65		-45	Pass

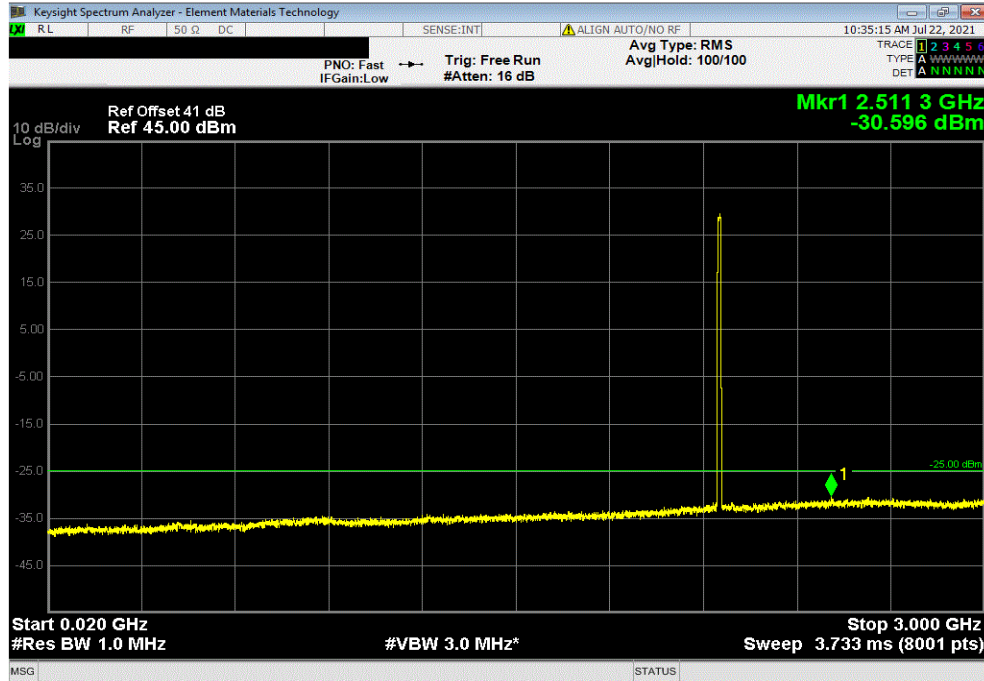


SPURIOUS CONDUCTED EMISSIONS

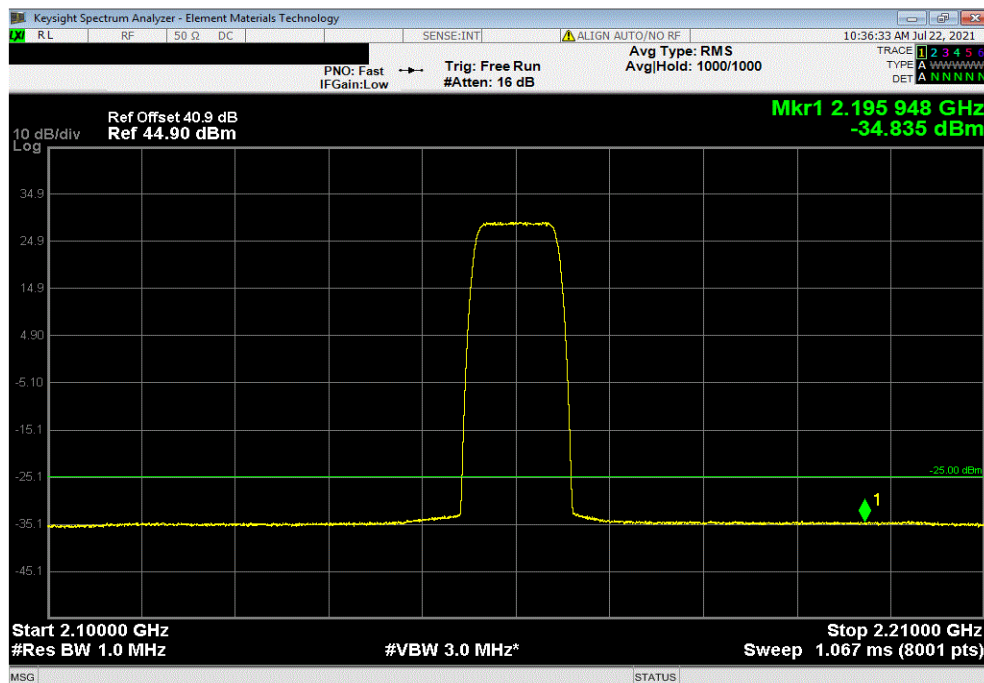


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz						
Frequency			Value (dBm)		Limit (dBm)	Result
Range						
	20 MHz - 3 GHz			-30.6	-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency					
Range		Value (dBm)	Limit (dBm)	Result	
2100 MHz - 2210 MHz		-34.84	-25	Pass	

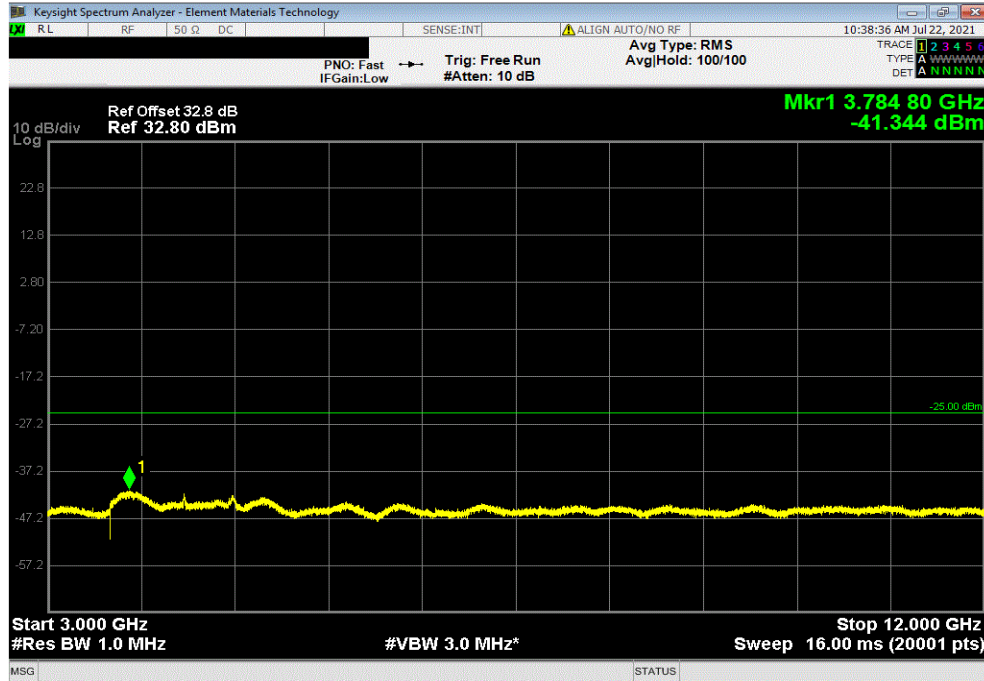


SPURIOUS CONDUCTED EMISSIONS

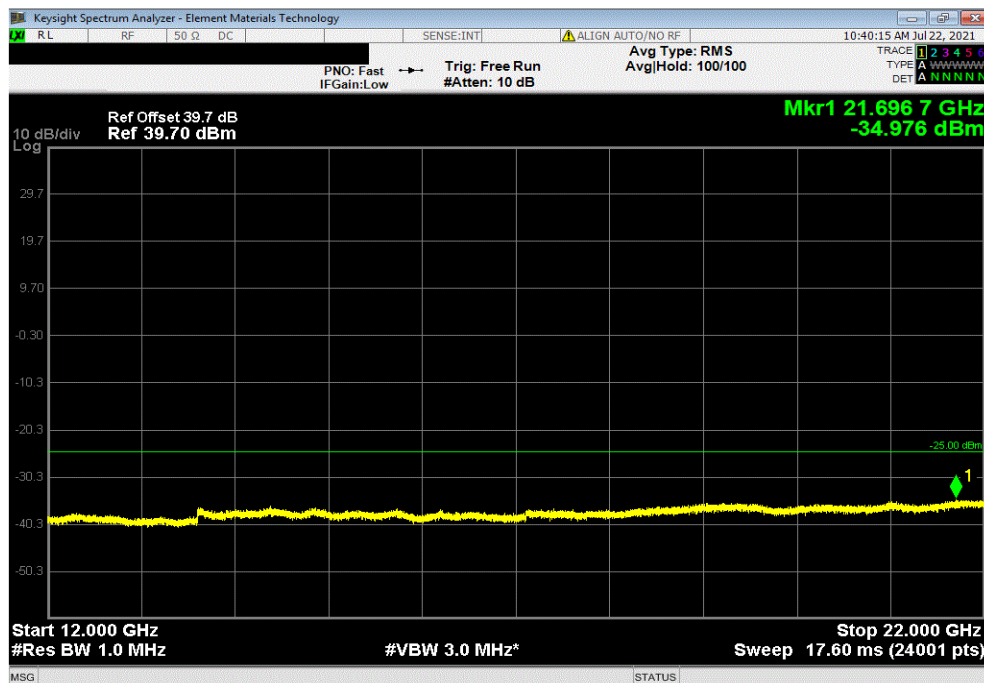


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-41.34		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-34.98		-25	Pass

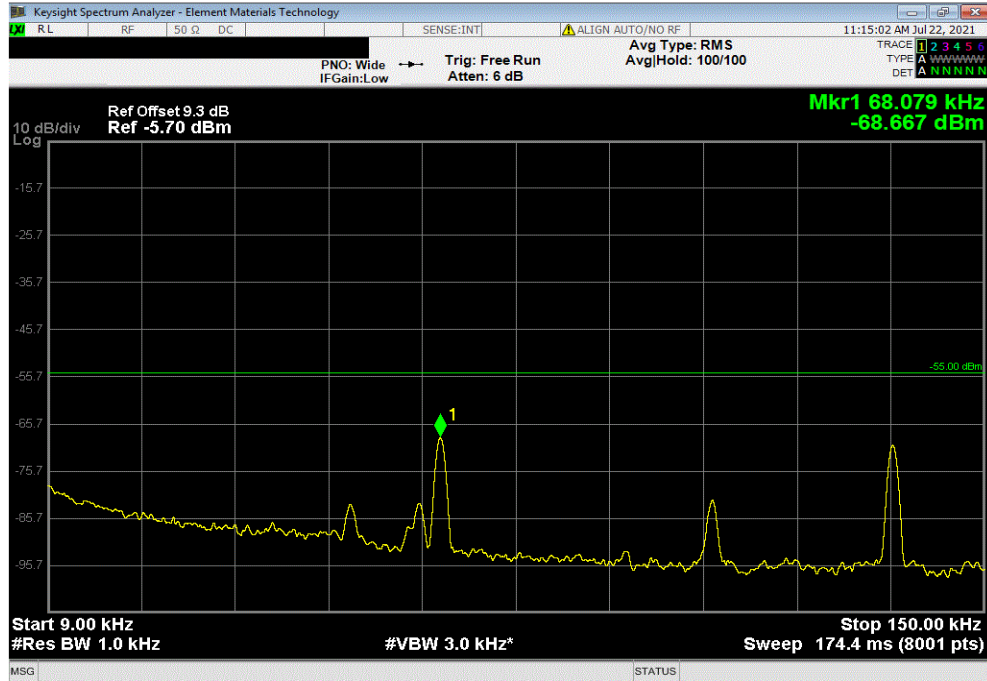


SPURIOUS CONDUCTED EMISSIONS

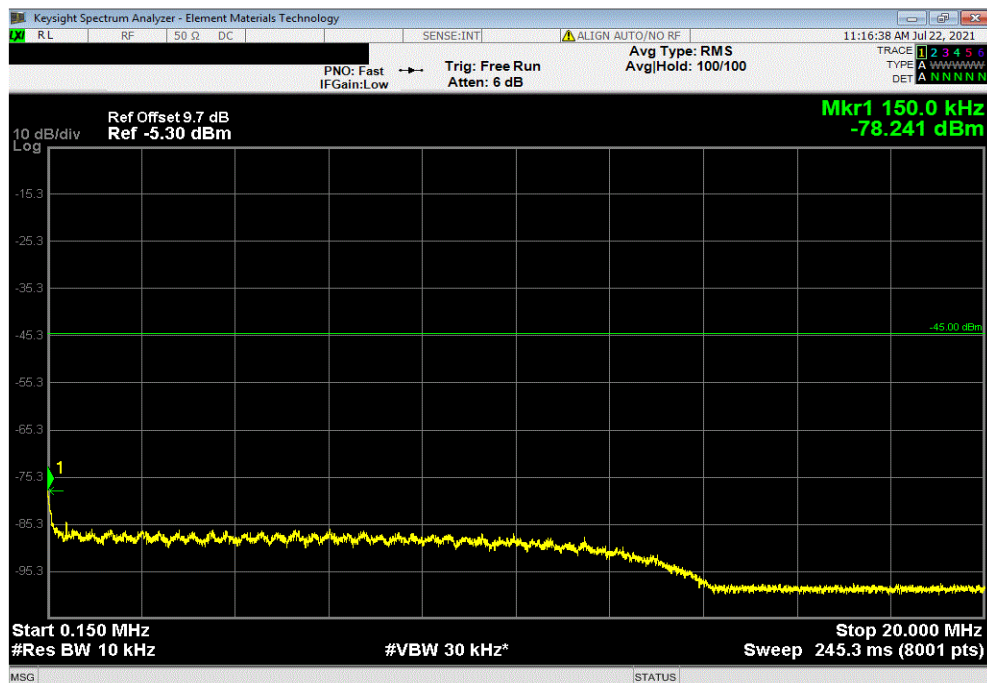


TbTtx 2021.03.19.1 XMt 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
9 kHz - 150 kHz		-68.67		-55	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
150 kHz - 20 MHz		-78.24		-45	Pass

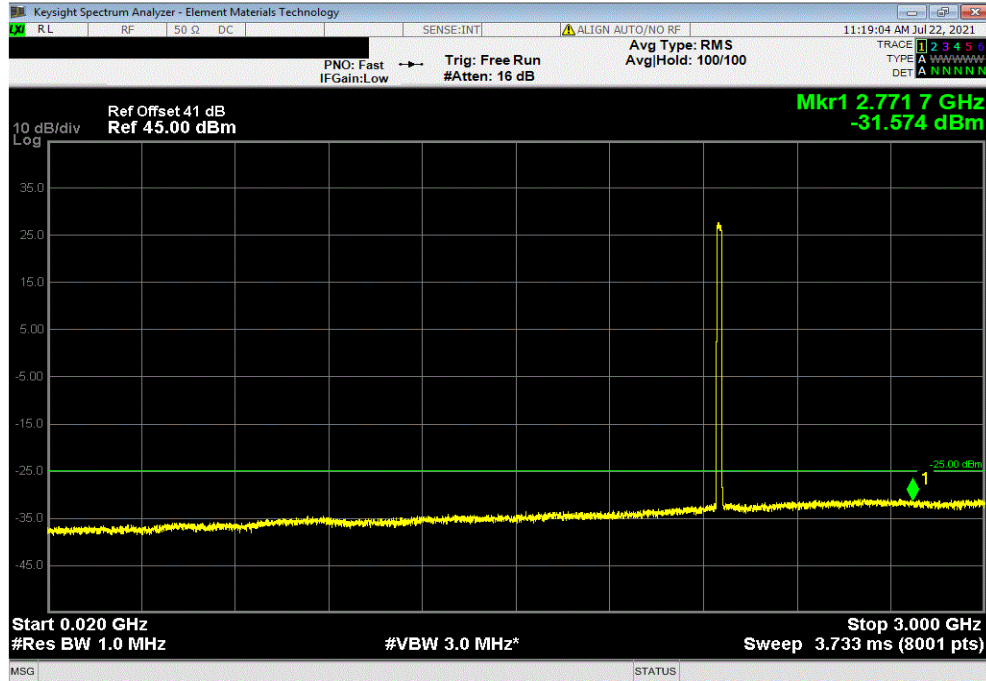


SPURIOUS CONDUCTED EMISSIONS

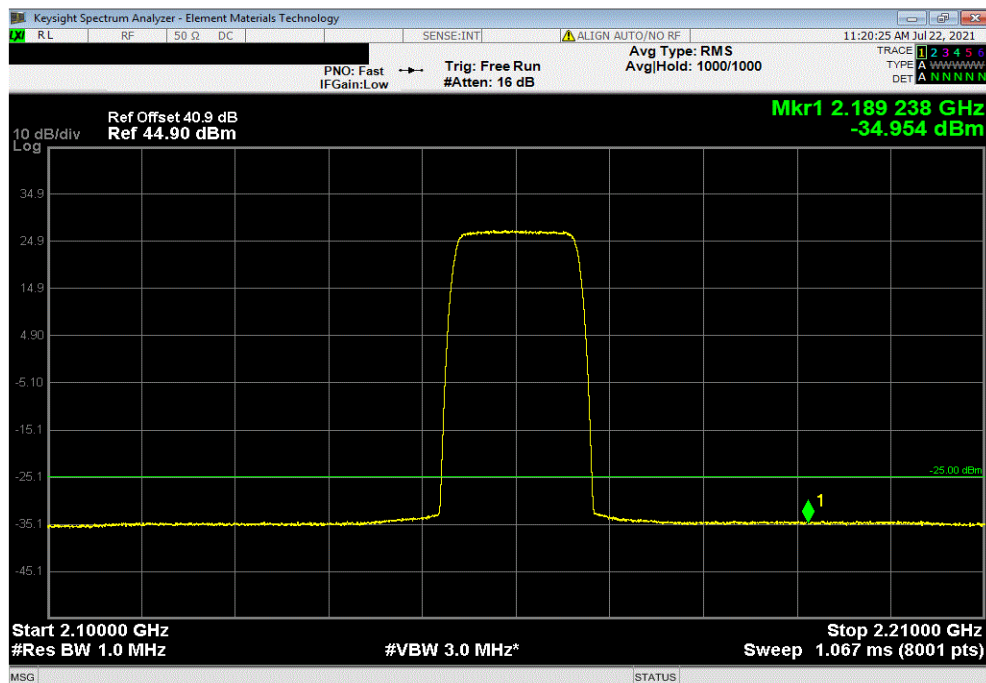


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
20 MHz - 3 GHz		-31.57		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
2100 MHz - 2210 MHz		-34.95		-25	Pass

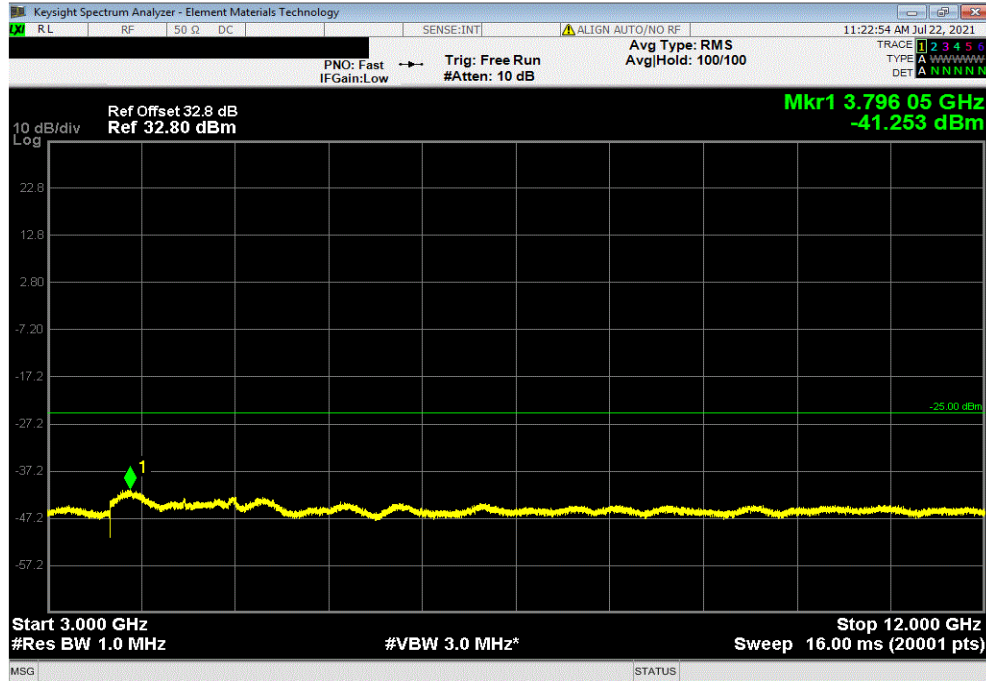


SPURIOUS CONDUCTED EMISSIONS

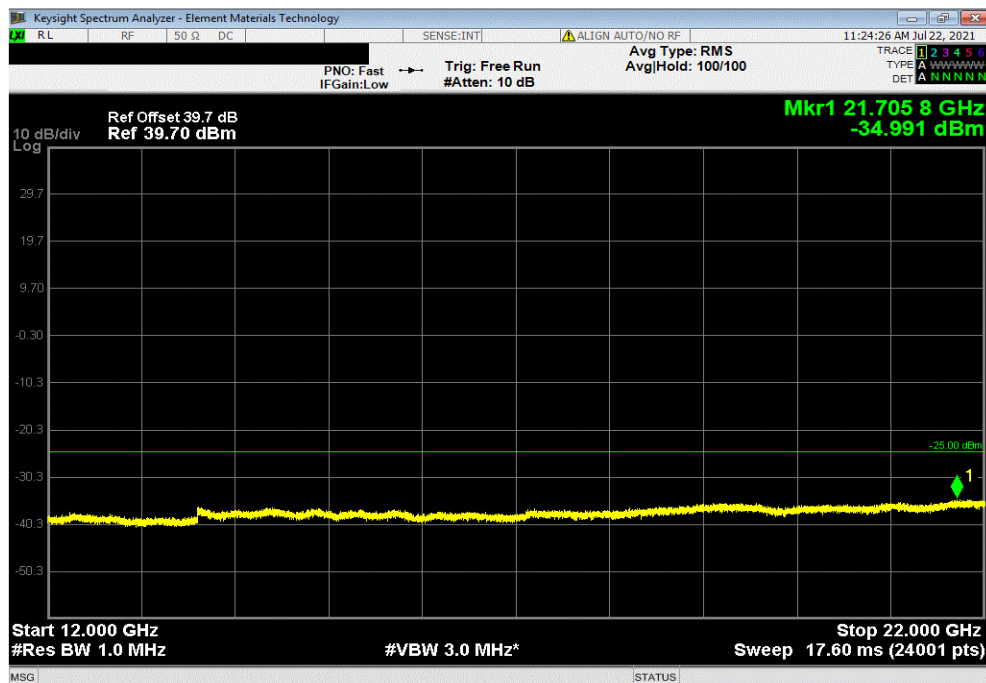


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range				Result	
3 GHz - 12 GHz		-41.25		-25	
				Pass	



Port 1, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range				Result	
12 GHz - 22 GHz		-34.99		-25	
				Pass	

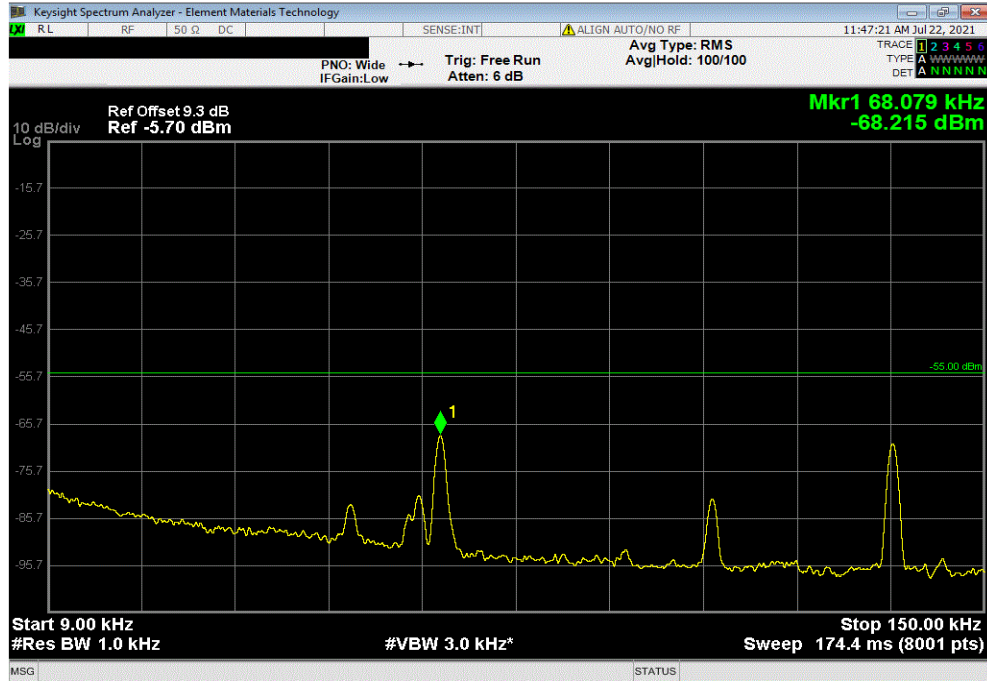


SPURIOUS CONDUCTED EMISSIONS

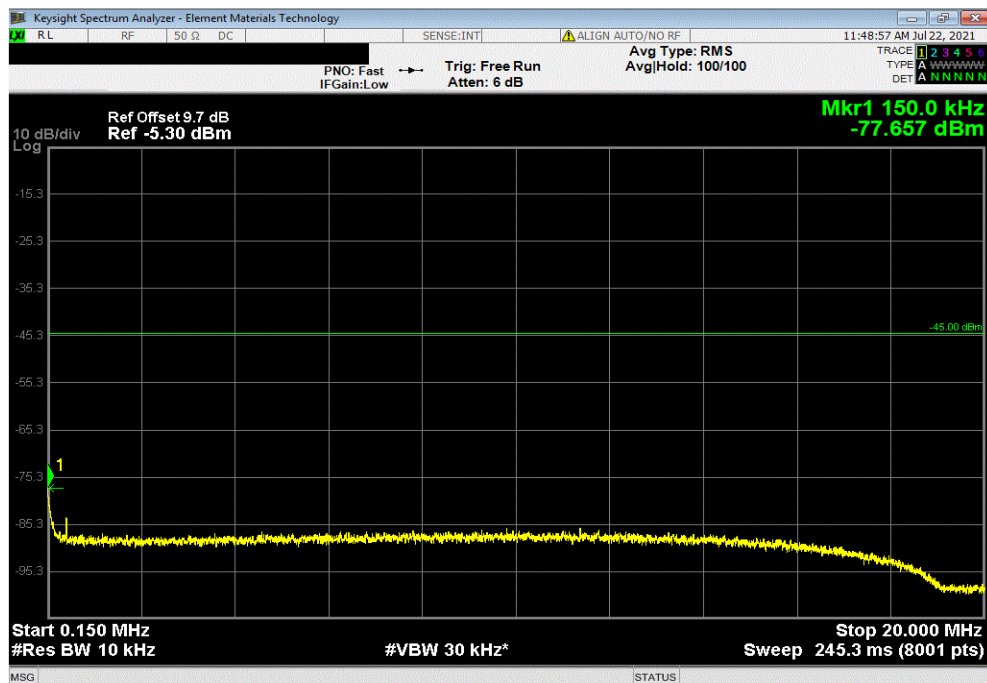


TbTx 2021.03.19.1 XMit 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz						
Frequency				Value (dBm)	Limit (dBm)	Result
Range						
	9 kHz - 150 kHz			-68.22	-55	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency			Value (dBm)	Limit (dBm)	Result
Range					
150 kHz - 20 MHz			-77.66	-45	Pass

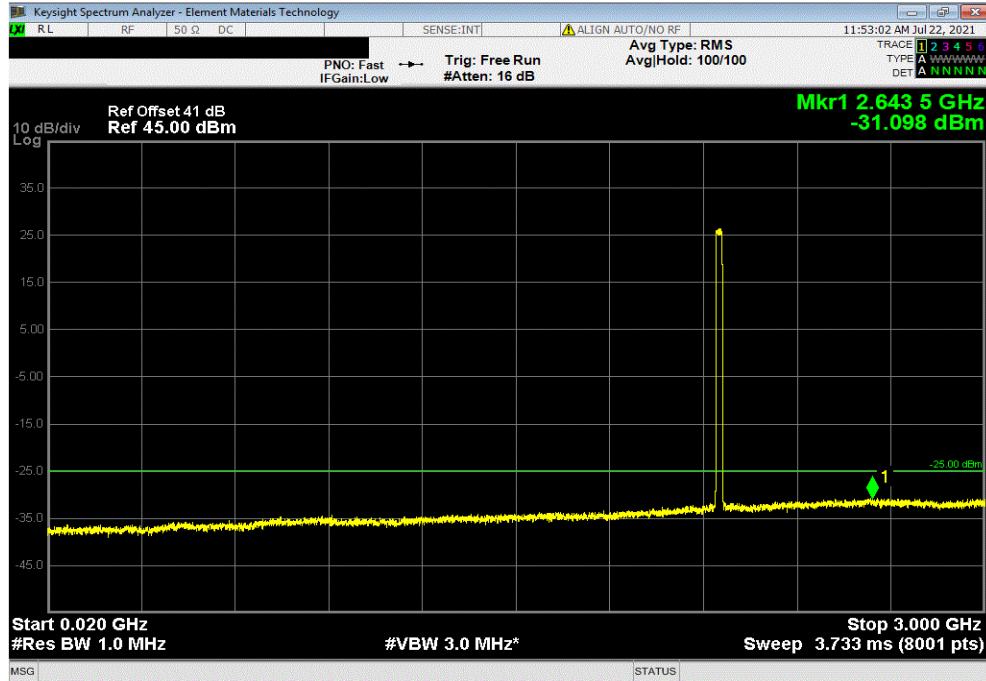


SPURIOUS CONDUCTED EMISSIONS

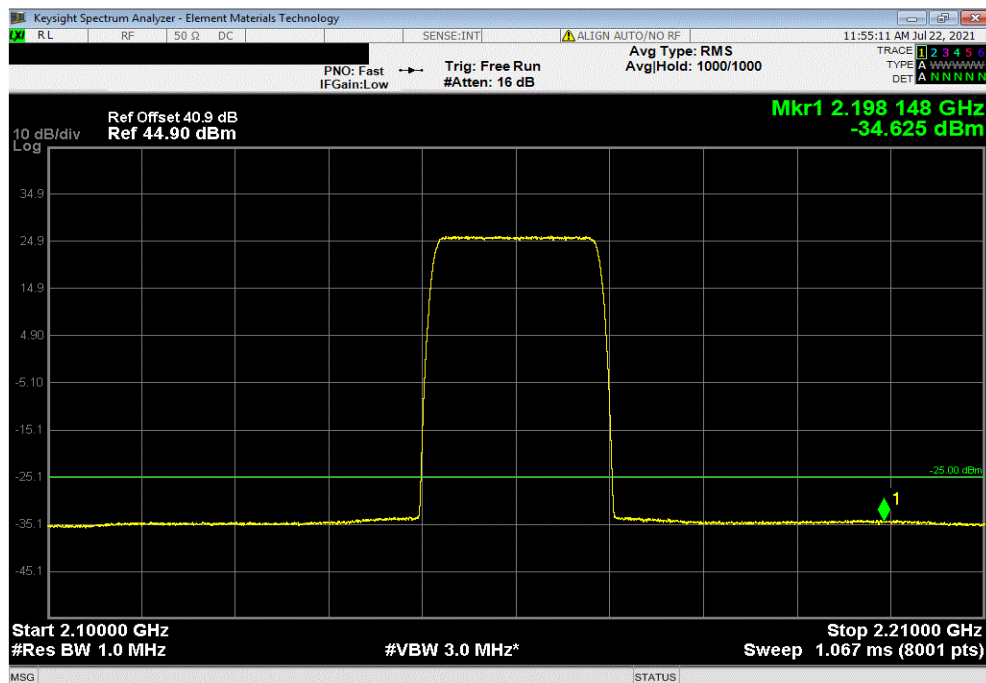


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
20 MHz - 3 GHz		-31.1		-25	
				Pass	



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	
Range					
2100 MHz - 2210 MHz		-34.63		-25	
				Pass	

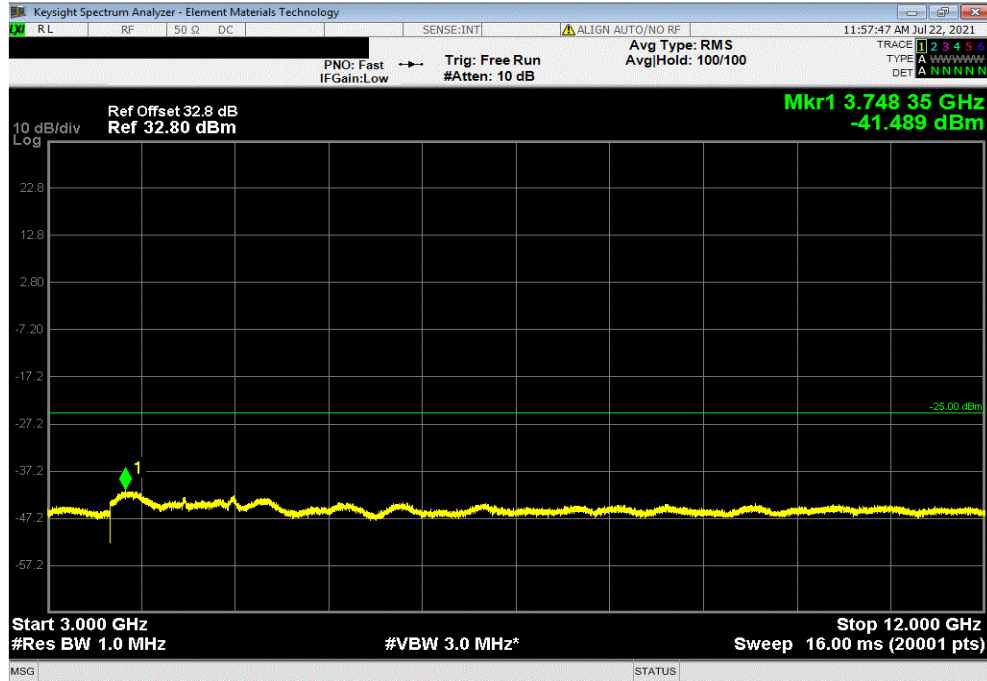


SPURIOUS CONDUCTED EMISSIONS

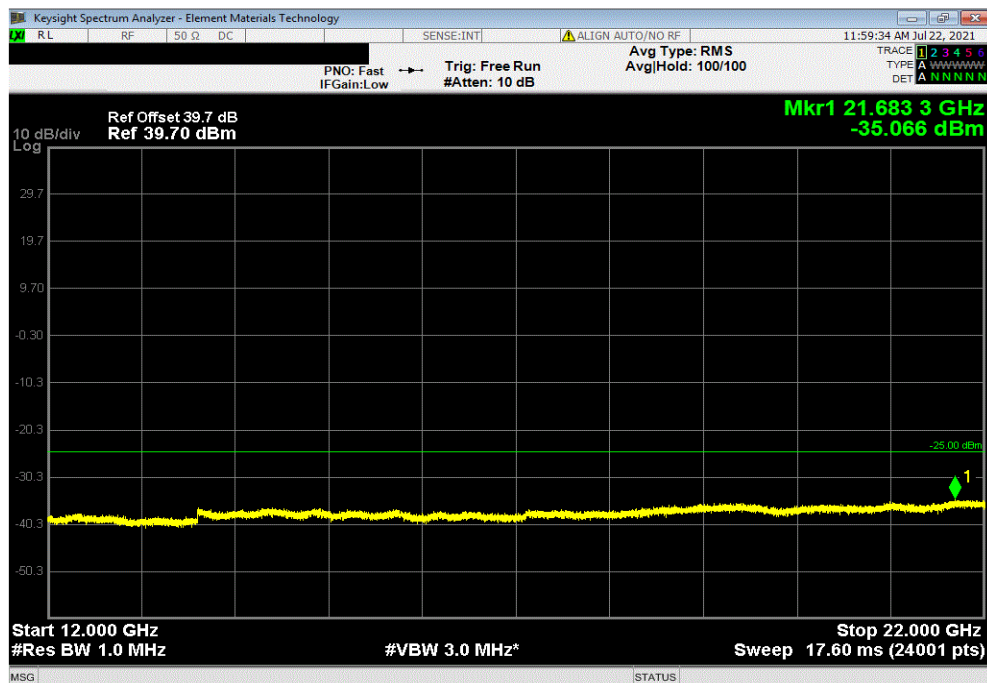


TbTx 2021.03.19.1 XMI 2020.12.30.0

Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
3 GHz - 12 GHz		-41.49		-25	Pass



Port 1, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Frequency		Value (dBm)		Limit (dBm)	Result
Range					
12 GHz - 22 GHz		-35.07		-25	Pass



End of Test Report