



XMH 2022.02.07.0

OCCUPIED BANDWIDTH

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	Keysight	N5182B	TEV	2021-04-27	2024-04-27
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3379	AMM	2021-09-14	2022-09-14

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The method in section 5.4 of ANSI C63.26 was used to make this measurement. The spectrum analyzer settings were as follows:

- RBW is 1% - 5% of the occupied bandwidth
- VBW is $\geq 3x$ the RBW
- Peak Detector was used
- Trace max hold was used

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHFII) as the original certification test. The 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 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

FCC 24.238(b) and FCC 27.53(h)(3) defines the 26dB emission bandwidth requirement.

RSS GEN Section 6.7 defines the 99% emission bandwidth requirement.

FCC and ISED Emission Designators for Band n25 (1930MHz to 1995MHz)									
Ch BW	Radio Channel	5G-NR: QPSK		5G-NR: 16QAM		5G-NR: 64QAM		5G-NR: 256QAM	
		FCC	ISED	FCC	ISED	FCC	ISED	FCC	ISED
5MHz	Low							4M85G7W	4M49G7W
	Mid	4M86G7W	4M47G7W	4M84G7W	4M50G7W	4M84G7W	4M47G7W	4M85G7W	4M48G7W
	High							4M82G7W	4M47G7W
10MHz	Low							9M99G7W	9M34G7W
	Mid	9M92G7W	9M29G7W	9M88G7W	9M24G7W	9M91G7W	9M29G7W	9M93G7W	9M32G7W
	High							9M94G7W	9M30G7W
15MHz	Low							14M9G7W	14M1G7W
	Mid	14M9G7W	14M1G7W	14M9G7W	14M2G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W
	High							14M9G7W	14M1G7W
20MHz	Low							20M0G7W	18M9G7W
	Mid	20M0G7W	18M9G7W	20M0G7W	19M0G7W	20M0G7W	19M0G7W	20M0G7W	18M9G7W
	High							20M0G7W	18M9G7W
30MHz	Low							30M1G7W	28M6G7W
	Mid	30M0G7W	28M6G7W	30M0G7W	28M5G7W	30M1G7W	28M6G7W	30M1G7W	28M6G7W
	High							30M1G7W	28M6G7W

Note: FCC emission designators are based on 26dB emission bandwidth. ISED emission designators are based on 99% emission bandwidth.

FCC and ISED Emission Designators for Band n66 (2110MHz to 2200MHz)									
Ch BW	Radio Channel	5G-NR: QPSK		5G-NR: 16QAM		5G-NR: 64QAM		5G-NR: 256QAM	
		FCC	ISED	FCC	ISED	FCC	ISED	FCC	ISED
5MHz	Low							4M84G7W	4M48G7W
	Mid	4M83G7W	4M49G7W	4M83G7W	4M51G7W	4M87G7W	4M50G7W	4M85G7W	4M48G7W
	High							4M84G7W	4M48G7W
10MHz	Low							9M91G7W	9M31G7W
	Mid	9M92G7W	9M30G7W	9M86G7W	9M24G7W	9M92G7W	9M30G7W	9M92G7W	9M31G7W
	High							9M94G7W	9M31G7W
15MHz	Low							14M9G7W	14M1G7W
	Mid	14M9G7W	14M1G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W	14M9G7W	14M1G7W
	High							14M9G7W	14M1G7W
20MHz	Low							20M0G7W	18M9G7W
	Mid	20M0G7W	18M9G7W	20M0G7W	19M0G7W	20M0G7W	19M0G7W	20M0G7W	18M9G7W
	High							20M0G7W	18M9G7W
30MHz	Low							30M1G7W	28M6G7W
	Mid	30M1G7W	28M5G7W	30M0G7W	28M4G7W	30M1G7W	28M6G7W	30M1G7W	28M6G7W
	High							30M0G7W	28M6G7W

Note: FCC emission designators are based on 26dB emission bandwidth. ISED emission designators are based on 99% emission bandwidth.

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EUT: AHFIL Remote Radio Head		Work Order: NOKI0038			
Serial Number: YK21400035		Date: 18-Mar-22			
Customer: Nokia of America Corporation		Temperature: 21.2 °C			
Attendees: Mitchell Hill		Humidity: 28.9% RH			
Project: None		Barometric Pres.: 1018 mbar			
Tested by: Brandon Hobbs	Power: 54 VDC	Job Site: TX06			
TEST SPECIFICATIONS					
FCC 24E:2022		Test Method			
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015			
		RSS-133 Issue 6:2013+A1:2018			
COMMENTS					
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. Band n25 carriers are enabled at maximum power (80 watts/carrier).					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature			
		Value	Value	Limit	Result
		99% (MHz)	26dB (MHz)		

Band n25, 1930 MHz - 1995 MHz, 5G NR

Port 1

5 MHz Bandwidth

QPSK Modulation					
	Mid Channel, 1962.5 MHz	4.47	4.86	Within Band	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	4.50	4.84	Within Band	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	4.47	4.84	Within Band	Pass
256-QAM Modulation					
	Low Channel, 1932.5 MHz	4.49	4.85	Within Band	Pass
	Mid Channel, 1962.5 MHz	4.48	4.85	Within Band	Pass
	High Channel, 1992.5 MHz	4.47	4.82	Within Band	Pass

10 MHz Bandwidth

QPSK Modulation					
	Mid Channel, 1962.5 MHz	9.29	9.92	Within Band	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	9.24	9.88	Within Band	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	9.29	9.91	Within Band	Pass
256-QAM Modulation					
	Low Channel, 1935 MHz	9.34	9.99	Within Band	Pass
	Mid Channel, 1962.5 MHz	9.32	9.93	Within Band	Pass
	High Channel, 1990 MHz	9.30	9.94	Within Band	Pass

15 MHz Bandwidth

QPSK Modulation					
	Mid Channel, 1962.5 MHz	14.1	14.9	Within Band	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	14.2	14.9	Within Band	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	14.1	14.9	Within Band	Pass
256-QAM Modulation					
	Low Channel, 1937.5 MHz	14.1	14.9	Within Band	Pass
	Mid Channel, 1962.5 MHz	14.1	14.9	Within Band	Pass
	High Channel, 1987.5 MHz	14.1	14.9	Within Band	Pass

20 MHz Bandwidth

QPSK Modulation					
	Mid Channel, 1962.5 MHz	18.9	20.0	Within Band	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	19.0	20.0	Within Band	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	19.0	20.0	Within Band	Pass
256-QAM Modulation					
	Low Channel, 1940 MHz	18.9	20.0	Within Band	Pass
	Mid Channel, 1962.5 MHz	18.9	20.0	Within Band	Pass
	High Channel, 1985 MHz	18.9	20.0	Within Band	Pass

30 MHz Bandwidth

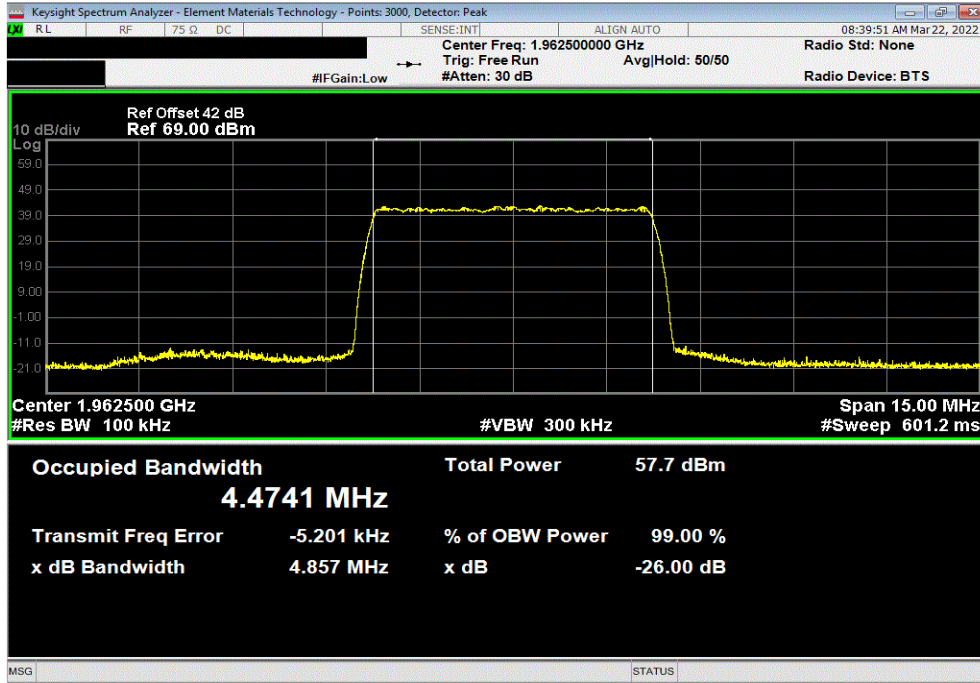
QPSK Modulation					
	Mid Channel, 1962.5 MHz	28.6	30.0	Within Band	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	28.5	30.0	Within Band	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	28.6	30.1	Within Band	Pass
256-QAM Modulation					
	Low Channel, 1945 MHz	28.6	30.1	Within Band	Pass
	Mid Channel, 1962.5 MHz	28.6	30.1	Within Band	Pass
	High Channel, 1980 MHz	28.6	30.1	Within Band	Pass

OCCUPIED BANDWIDTH

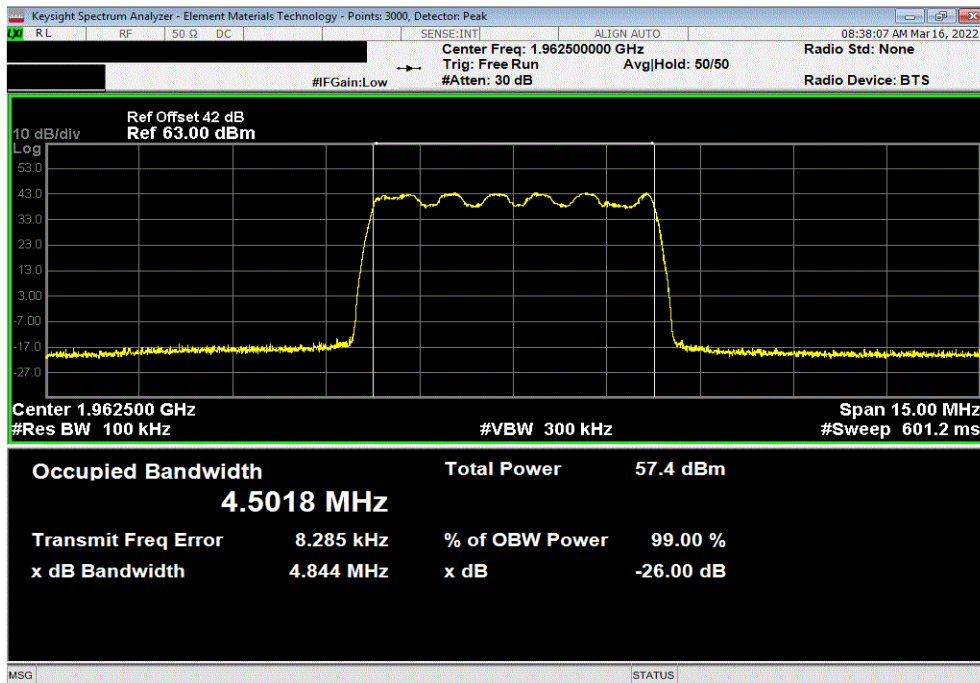


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.474	4.857			Within Band	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.502	4.844			Within Band	Pass

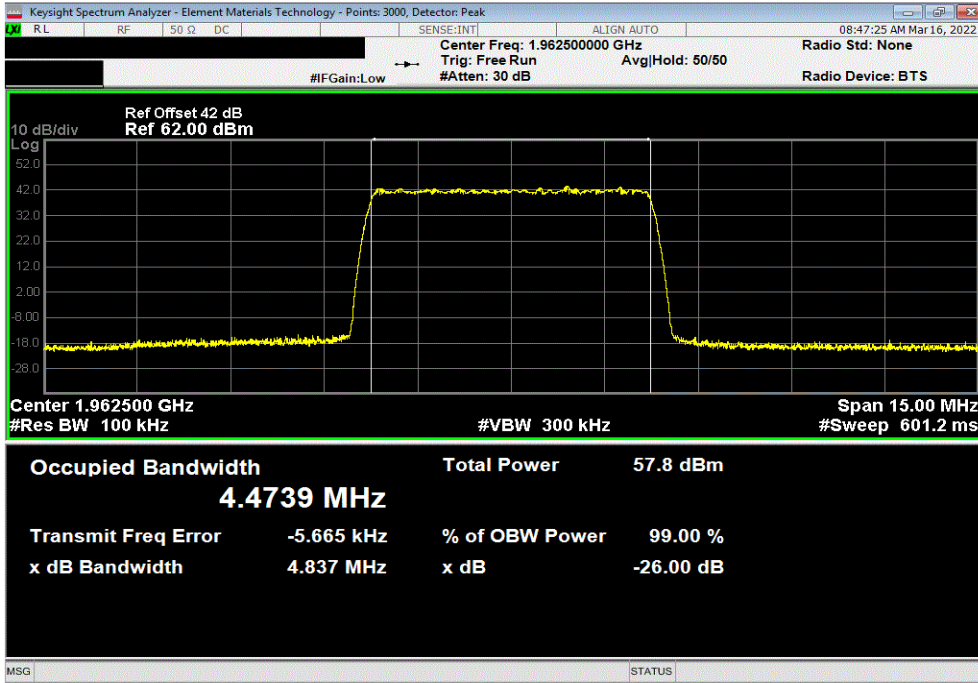


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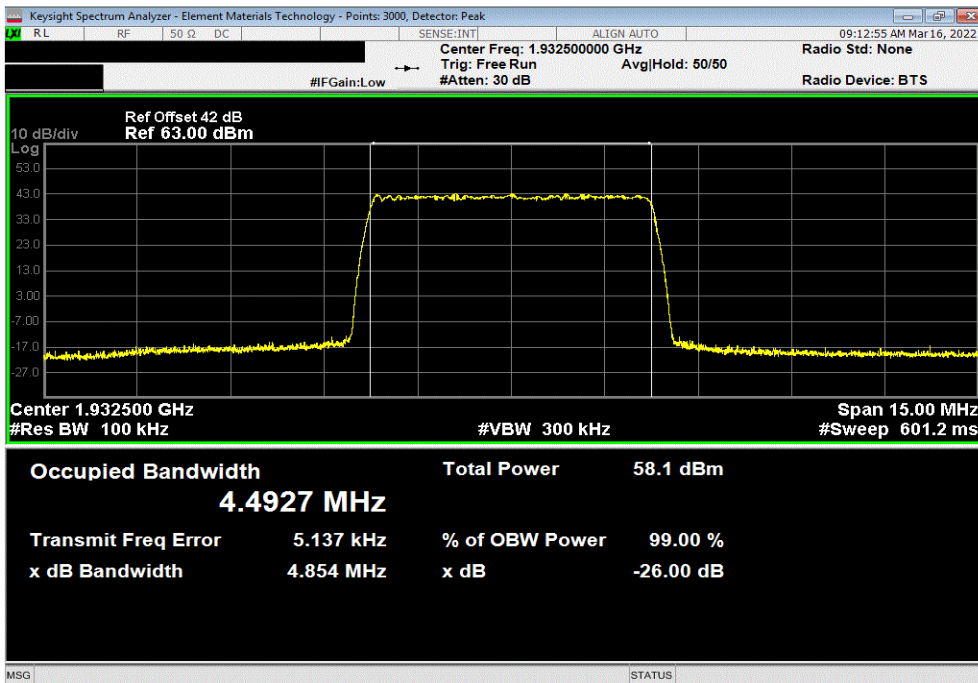


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.474	4.837			Within Band	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1932.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.493	4.854			Within Band	Pass

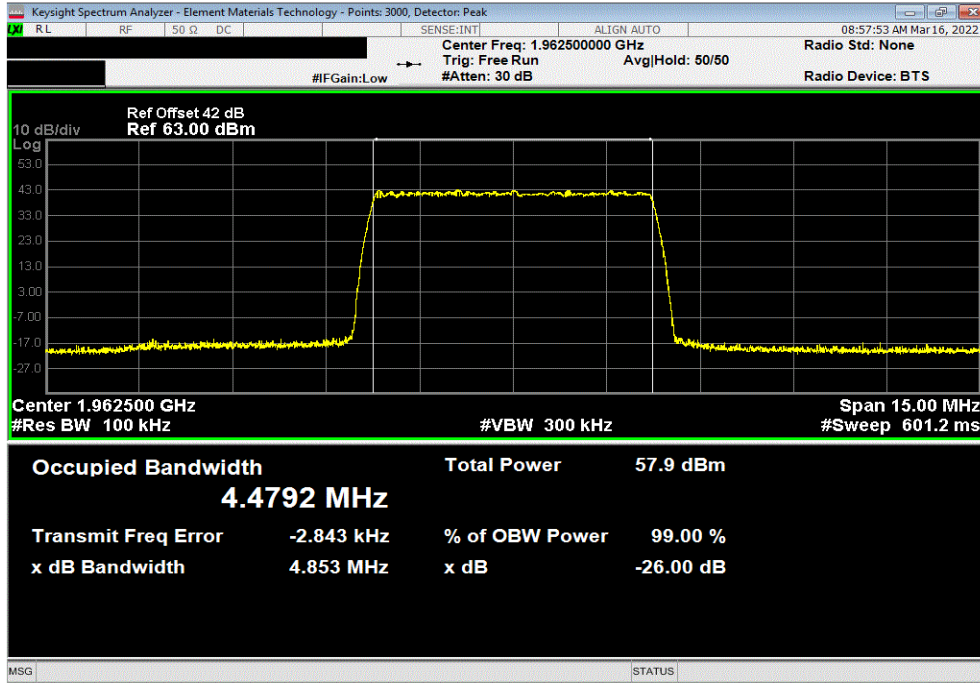


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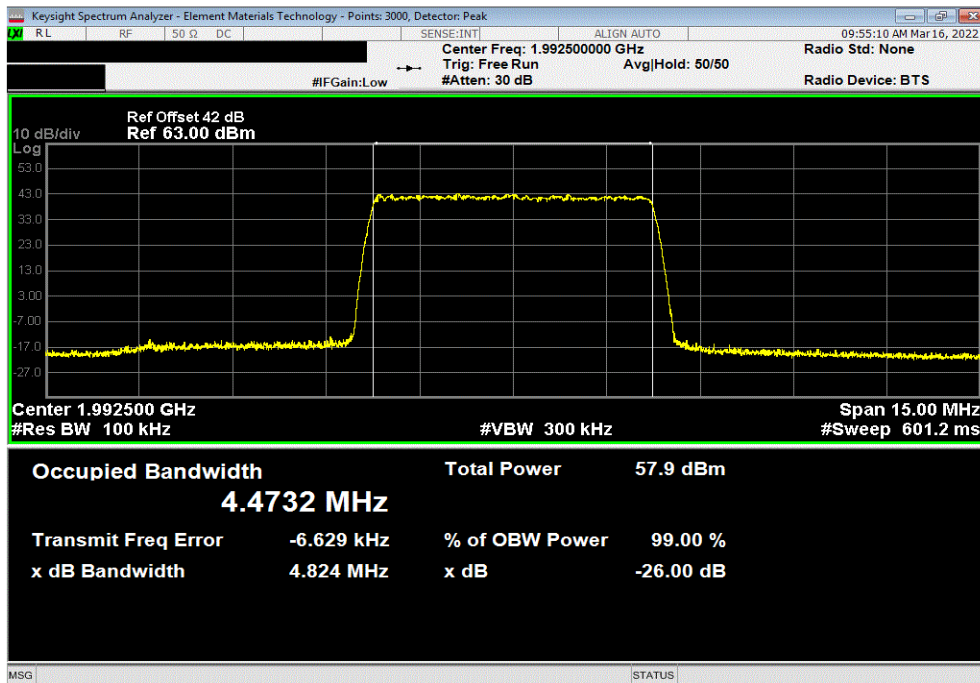


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.479	4.853			Within Band	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 1992.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.473	4.824			Within Band	Pass

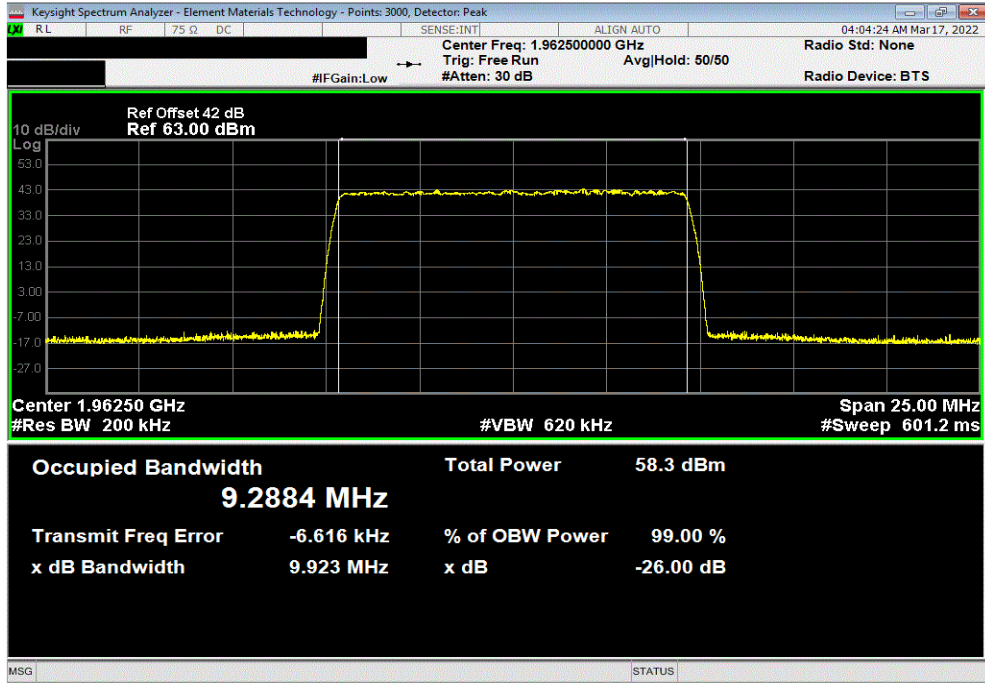


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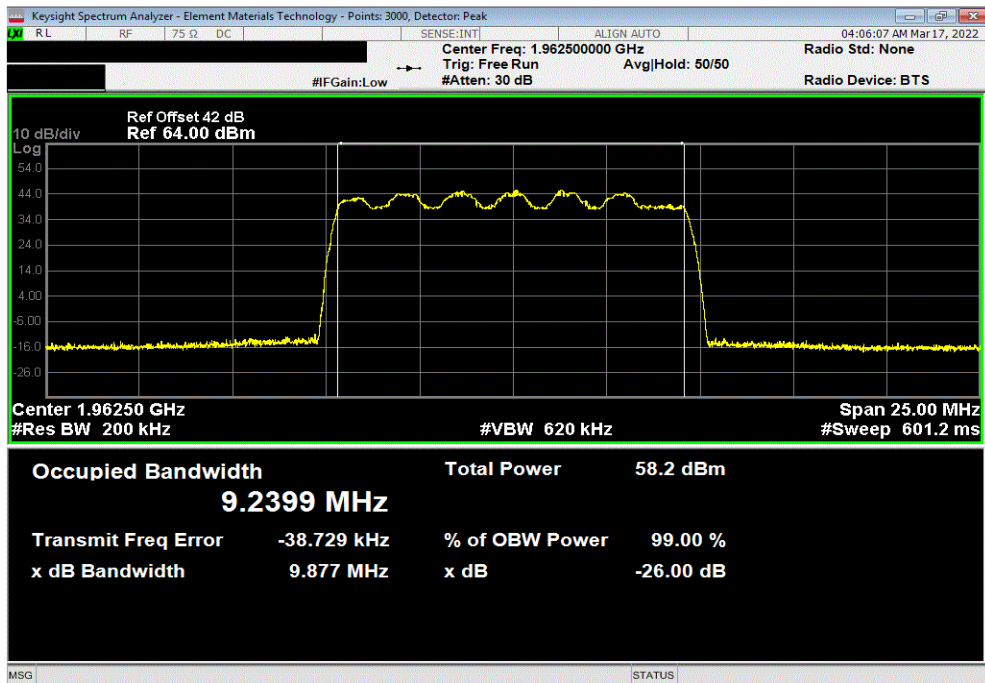


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.288	9.923	Within Band		Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value			
			99% (MHz)	26dB (MHz)	Limit		Result
			9.24	9.877	Within Band		Pass

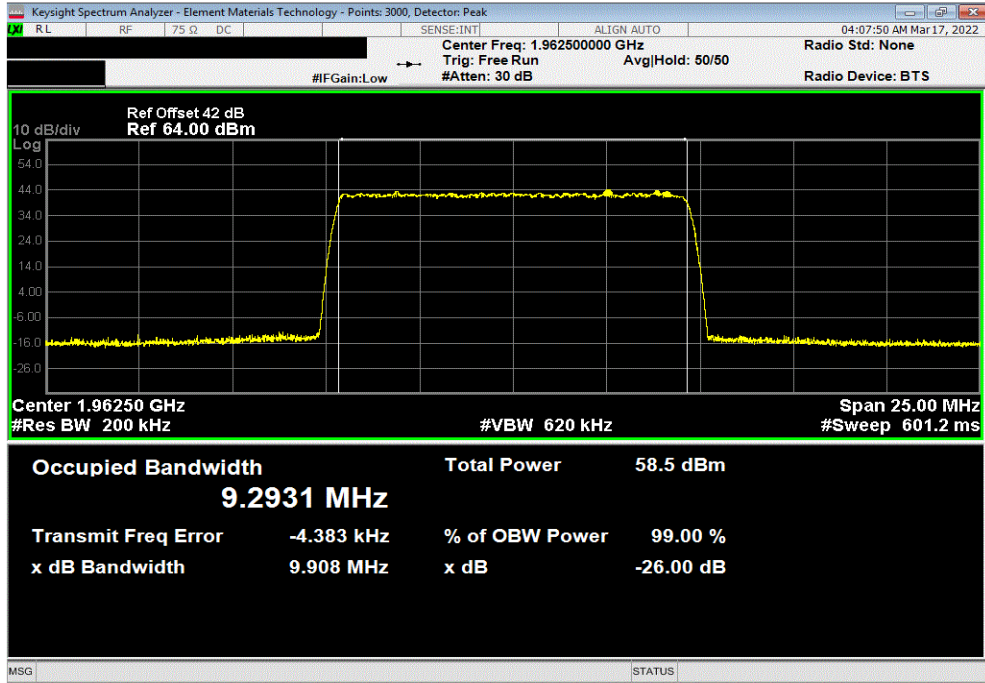


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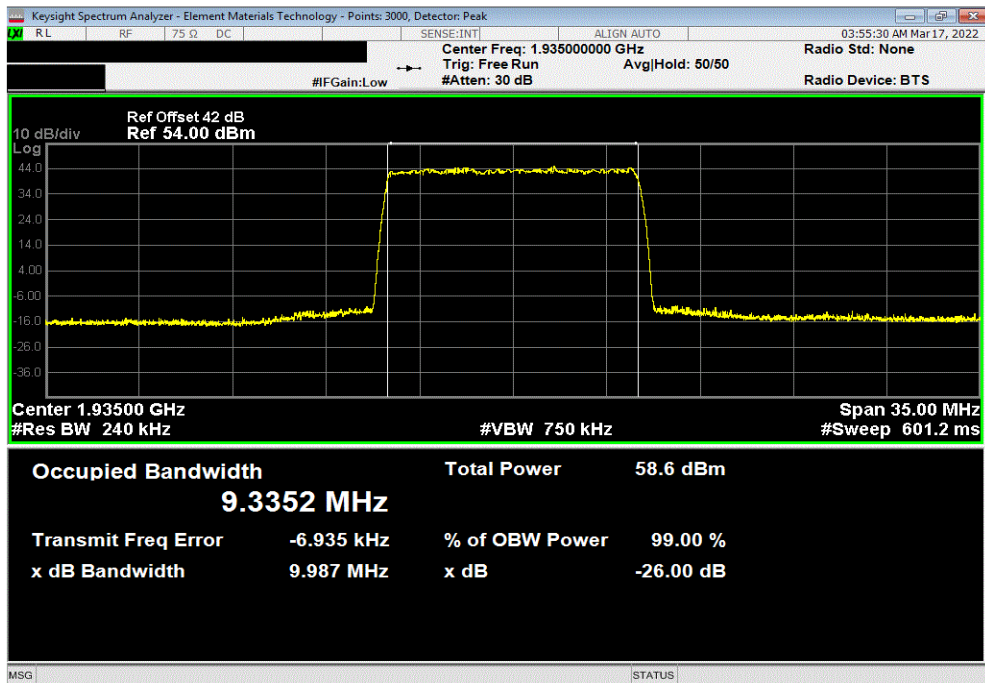


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.293	9.908	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1935 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.335	9.987	Within Band	Pass		

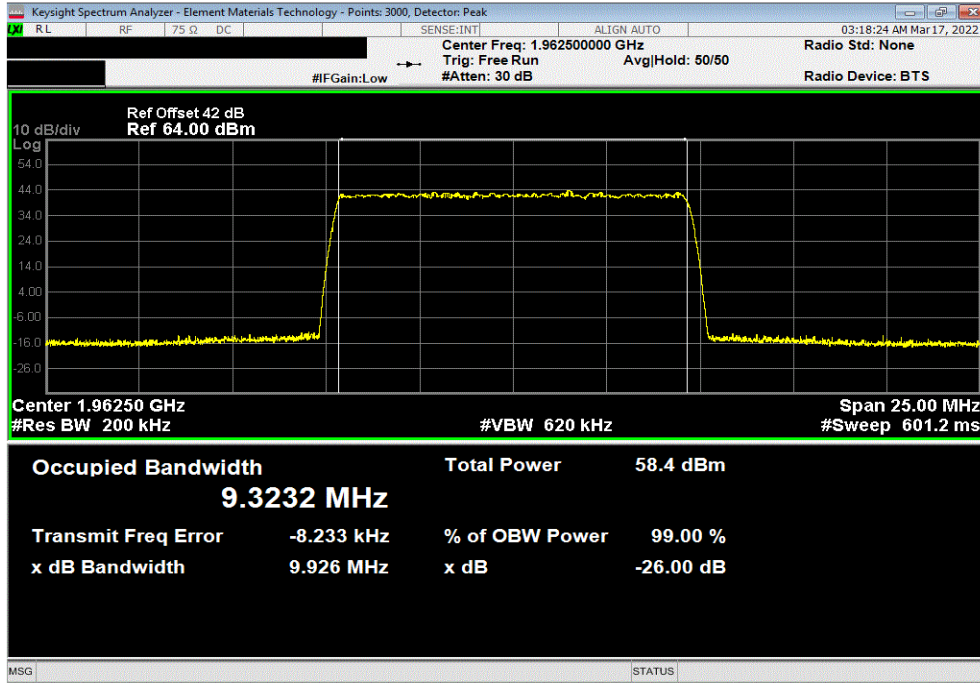


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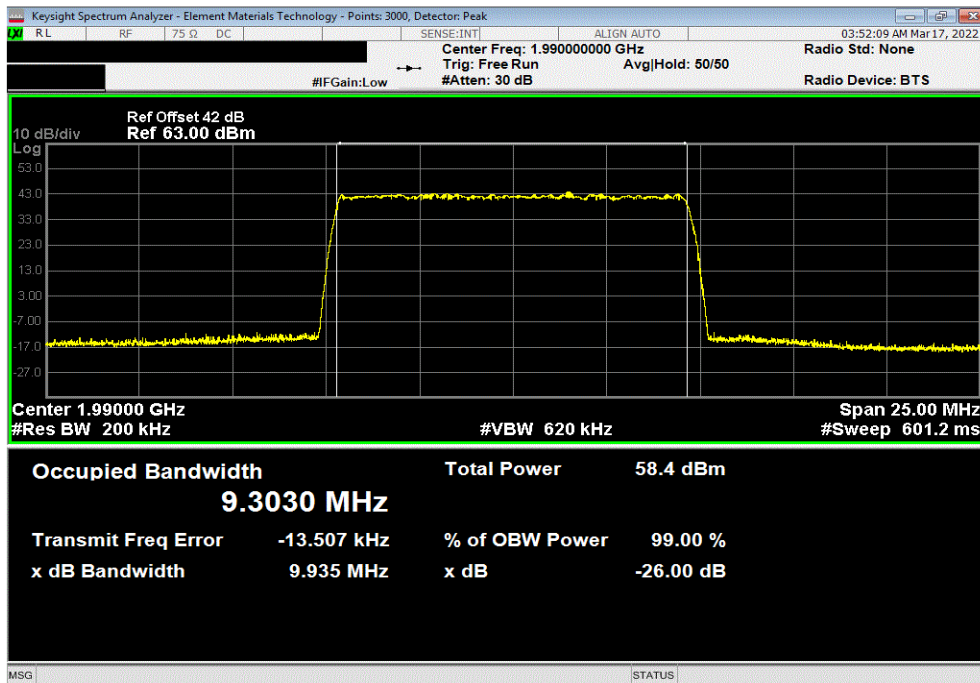


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		9.323	9.926			Within Band	Pass



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 1990 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		9.303	9.935			Within Band	Pass

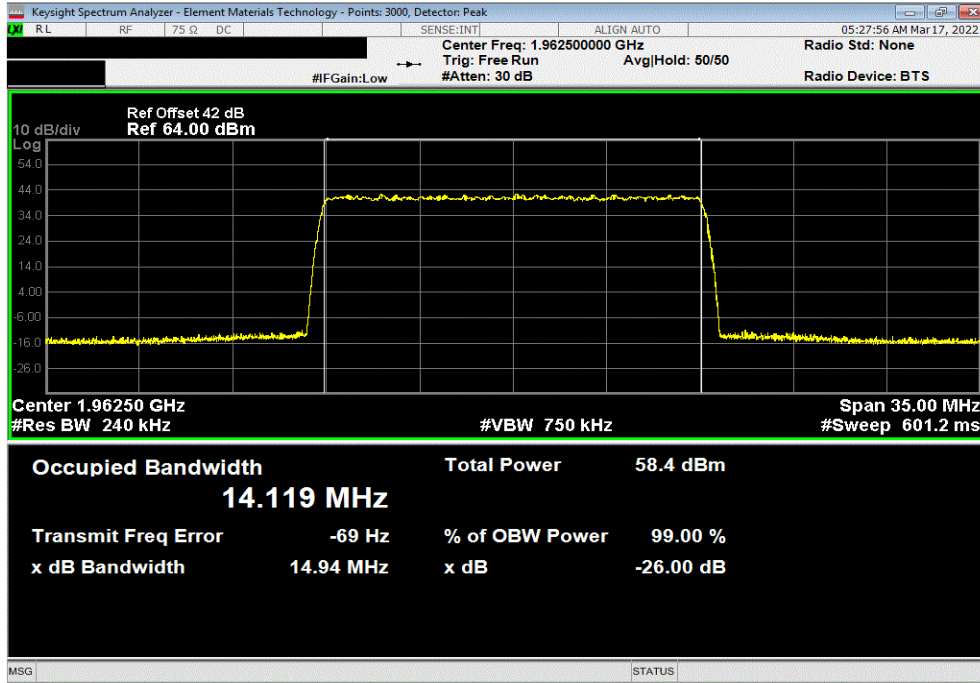


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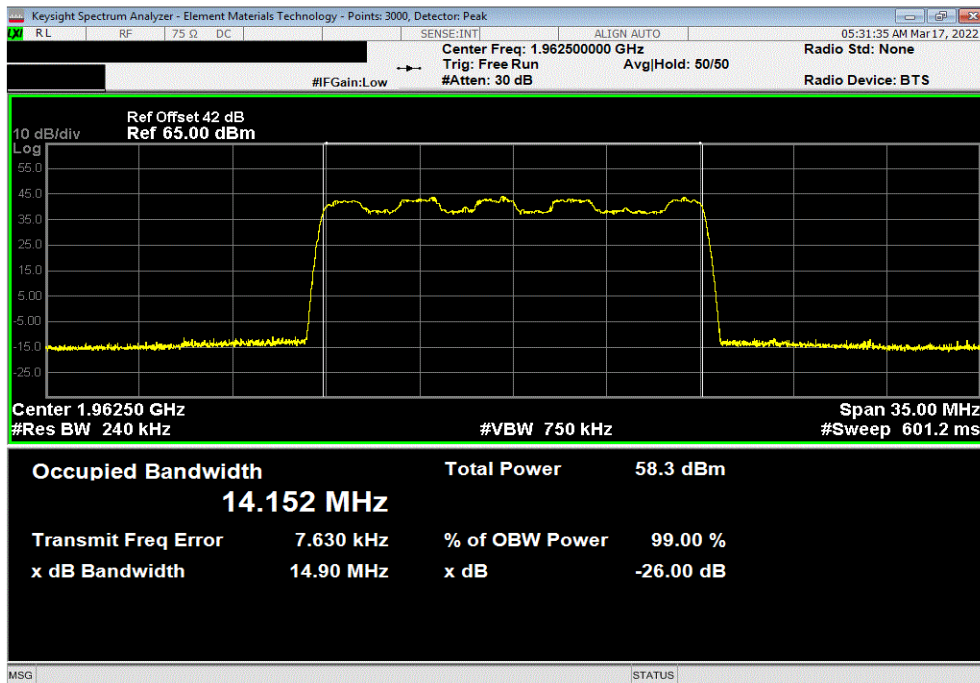


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.119	14.935	Within Band	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.152	14.896	Within Band	Pass	

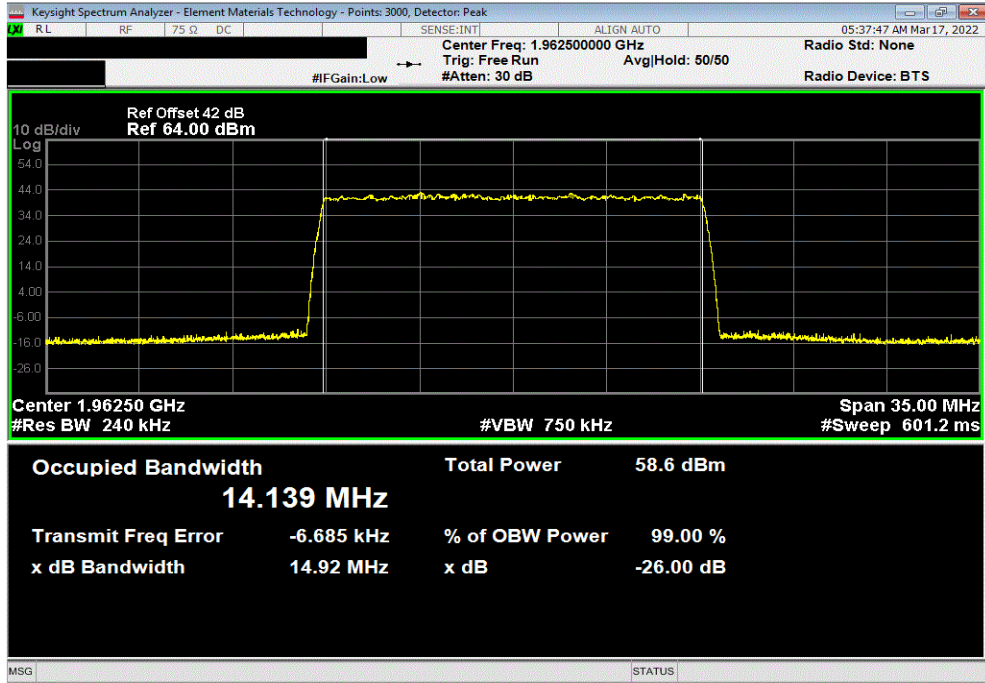


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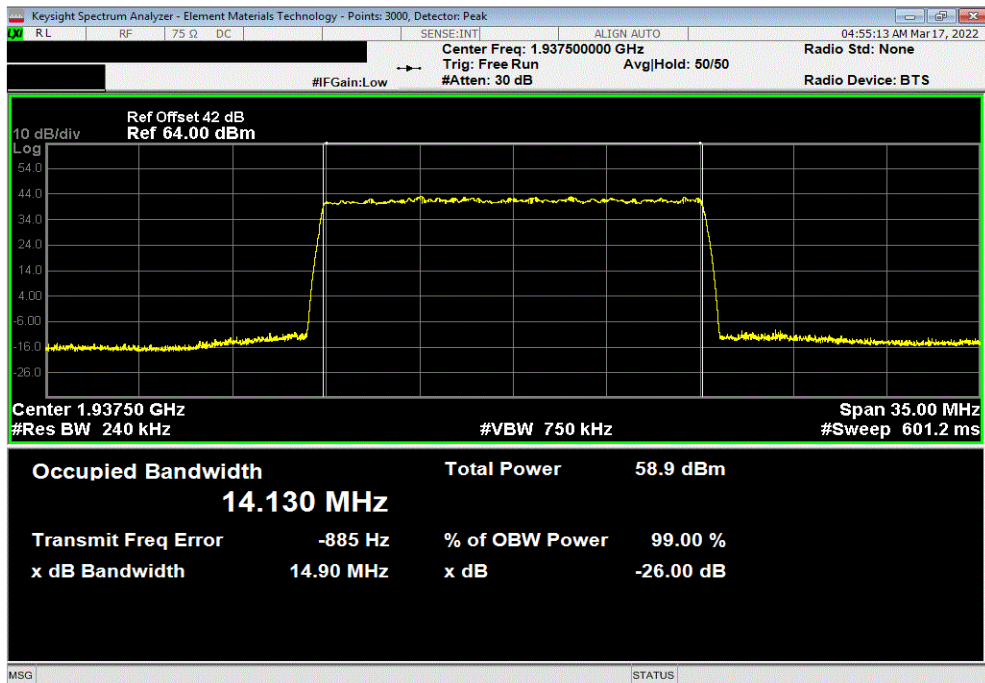


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz							
		Value	Value	Limit	Result		
		99% (MHz)	26dB (MHz)				
		14.139	14.915	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1937.5 MHz							
		Value	Value	Limit	Result		
		99% (MHz)	26dB (MHz)				
		14.13	14.902	Within Band	Pass		

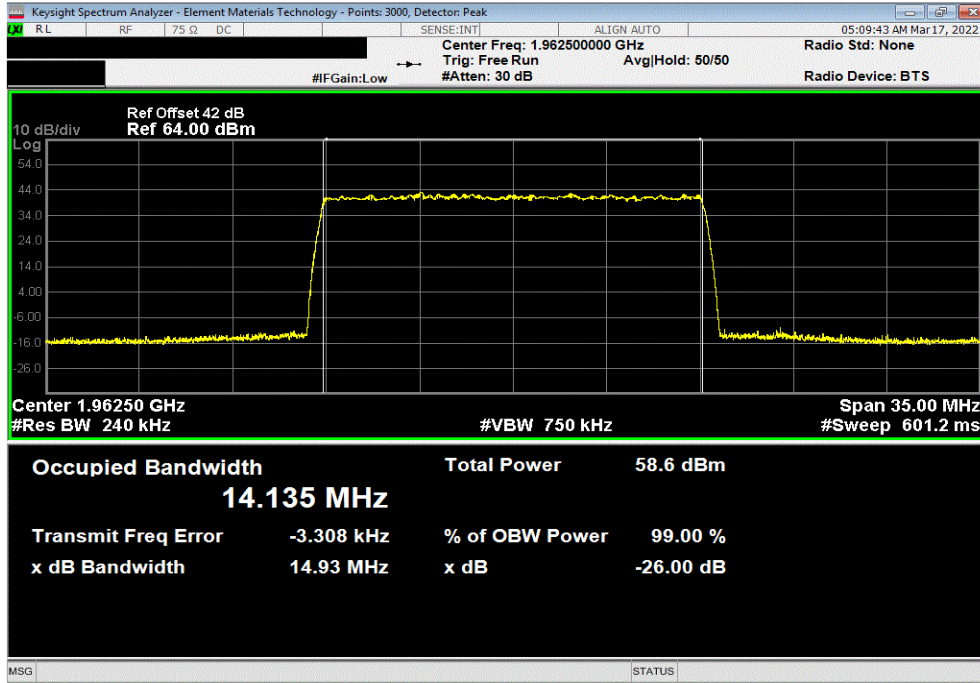


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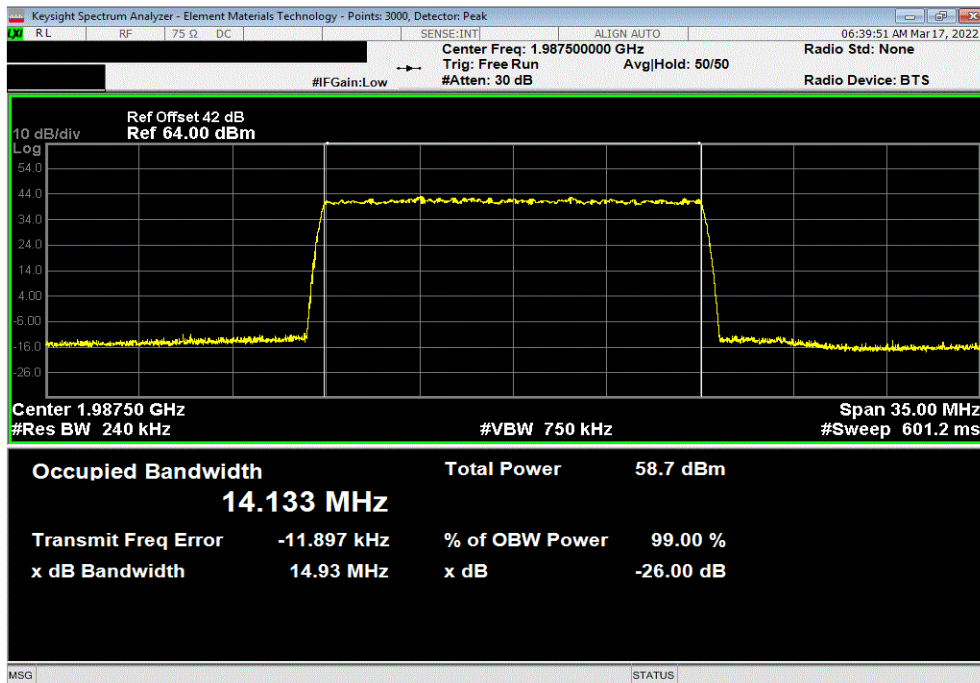


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.135	14.926	Within Band	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 1987.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			14.133	14.929	Within Band	Pass	

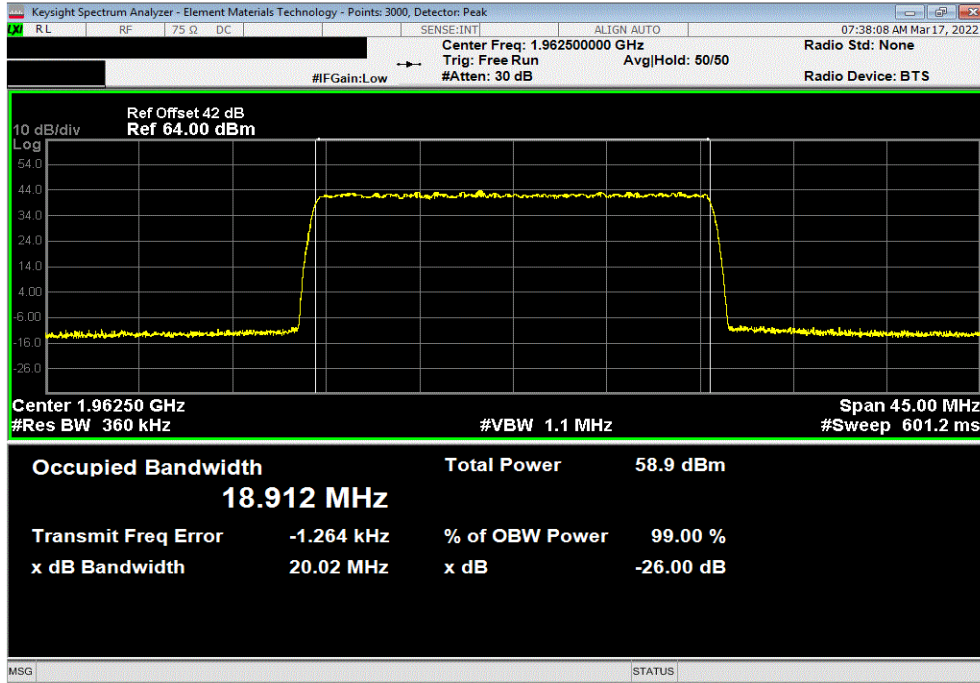


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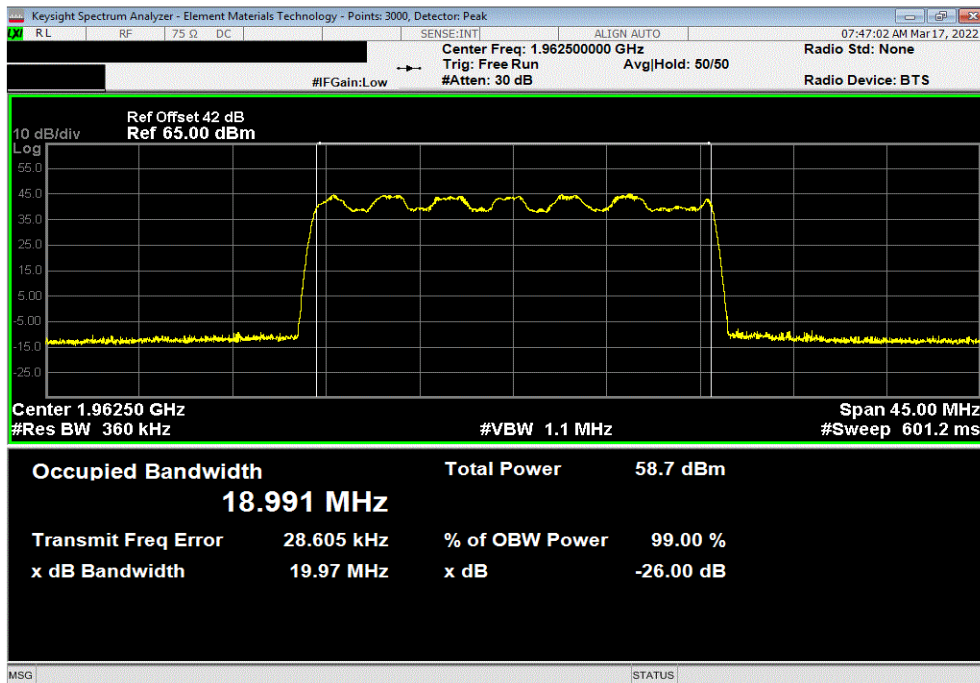


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.912	20.016	Within Band	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.991	19.966	Within Band	Pass	

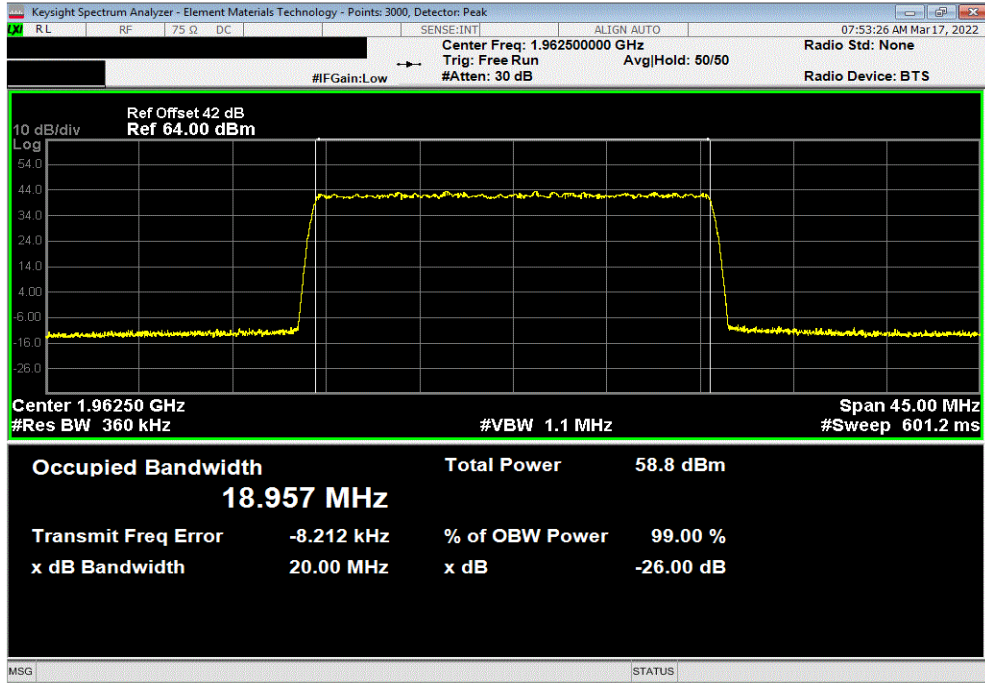


OCCUPIED BANDWIDTH

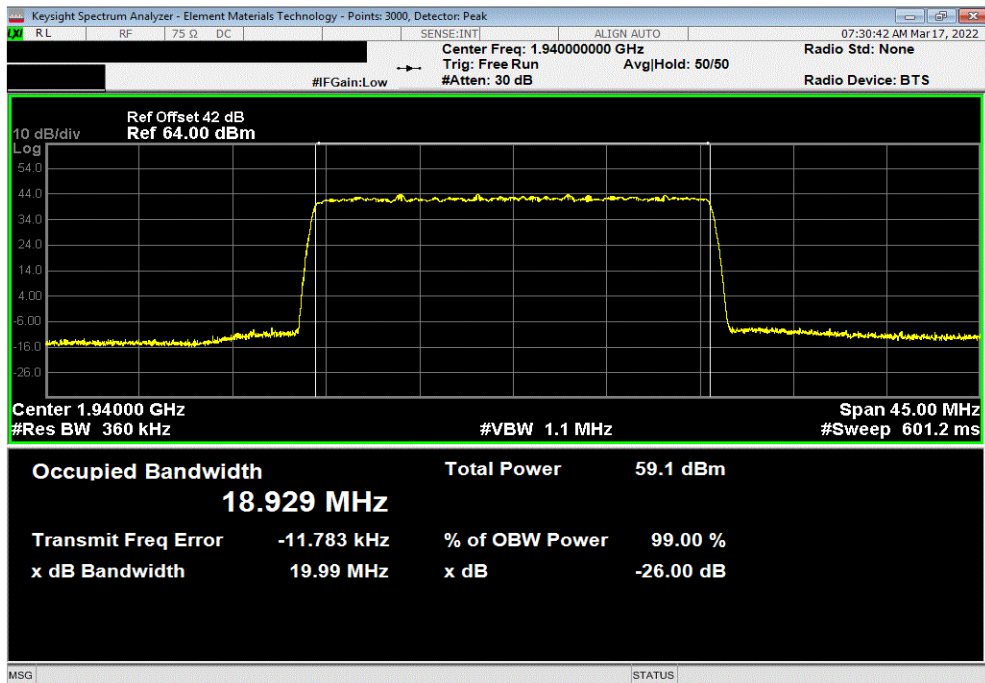


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	18.957	20.005	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1940 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	18.929	19.995	Within Band	Pass		

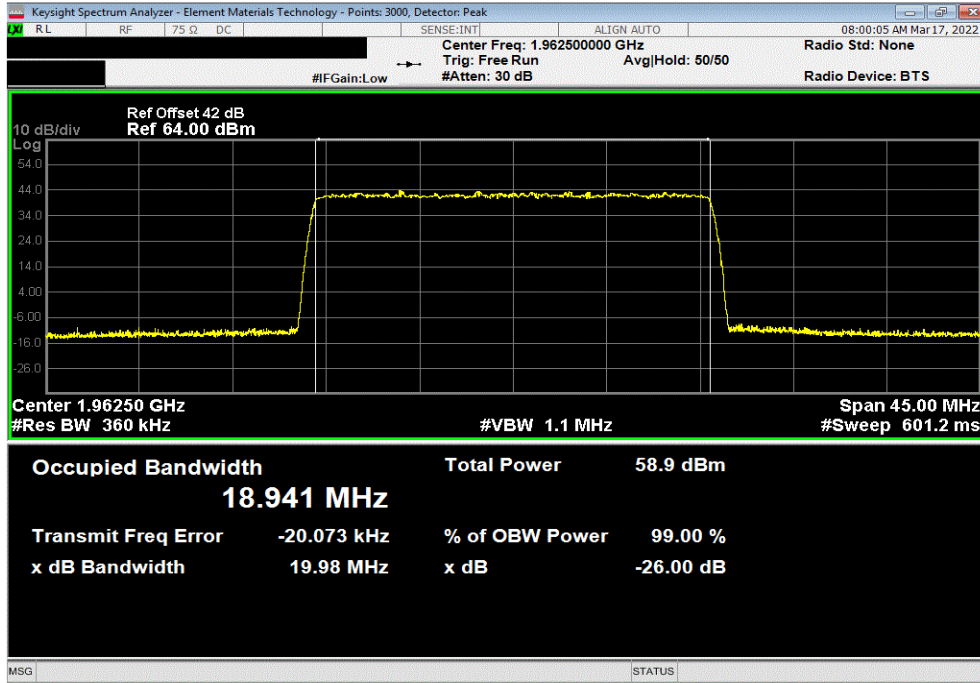


OCCUPIED BANDWIDTH

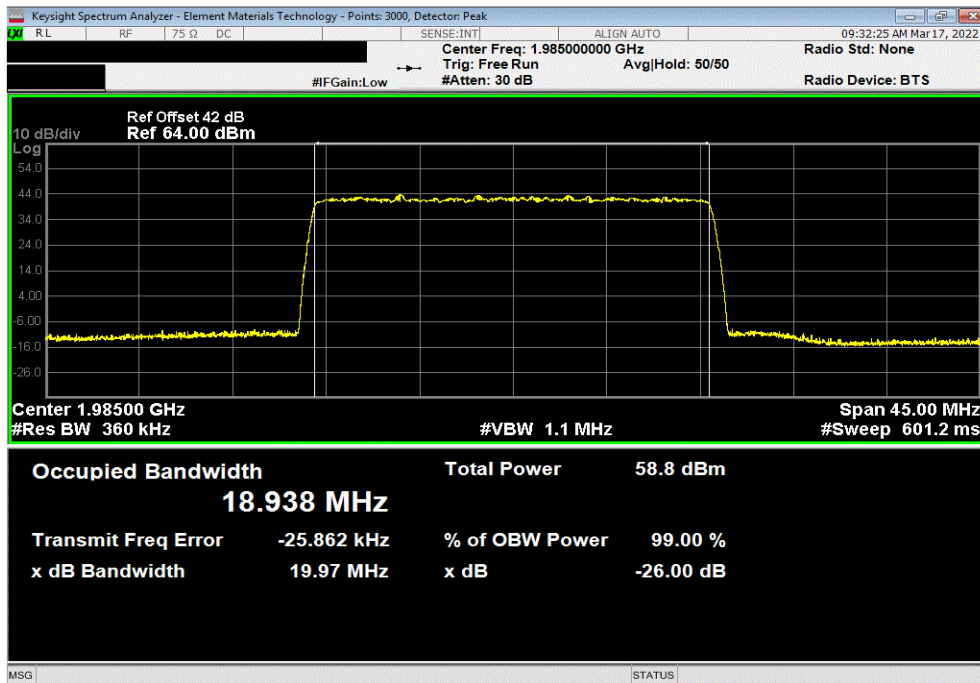


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.941	19.984	Within Band	Pass	



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 1985 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.938	19.965	Within Band	Pass	

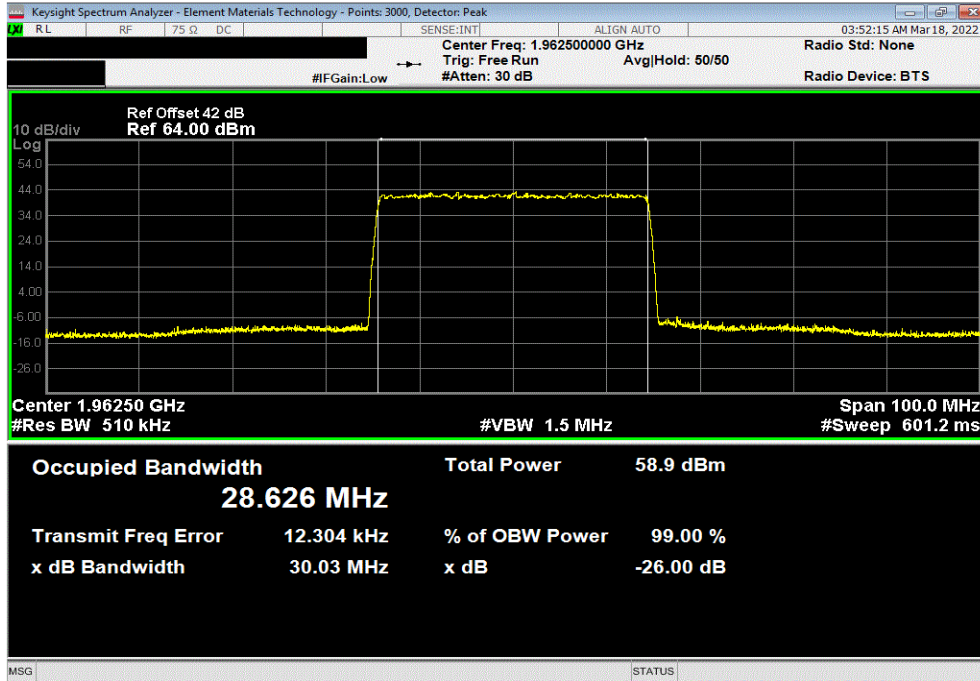


OCCUPIED BANDWIDTH

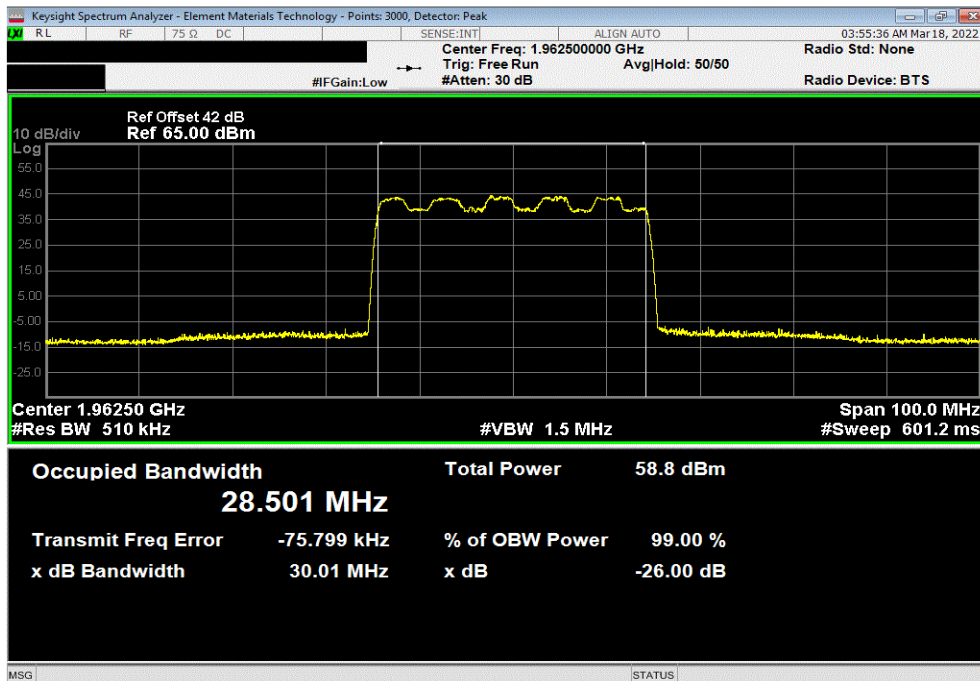


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.626	30.03	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.501	30.014	Within Band	Pass		

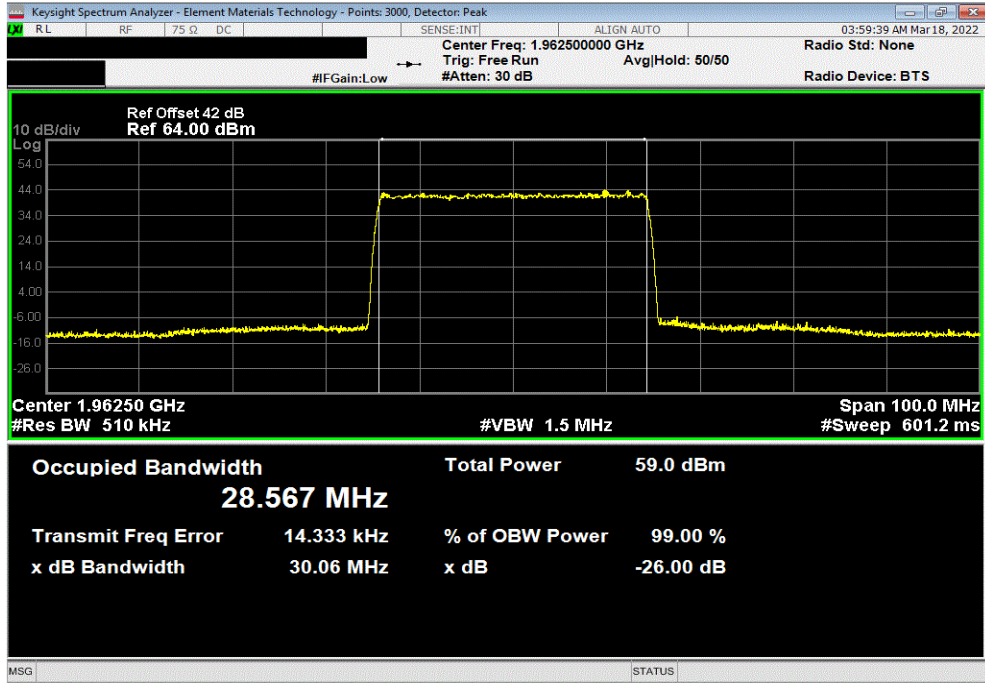


OCCUPIED BANDWIDTH

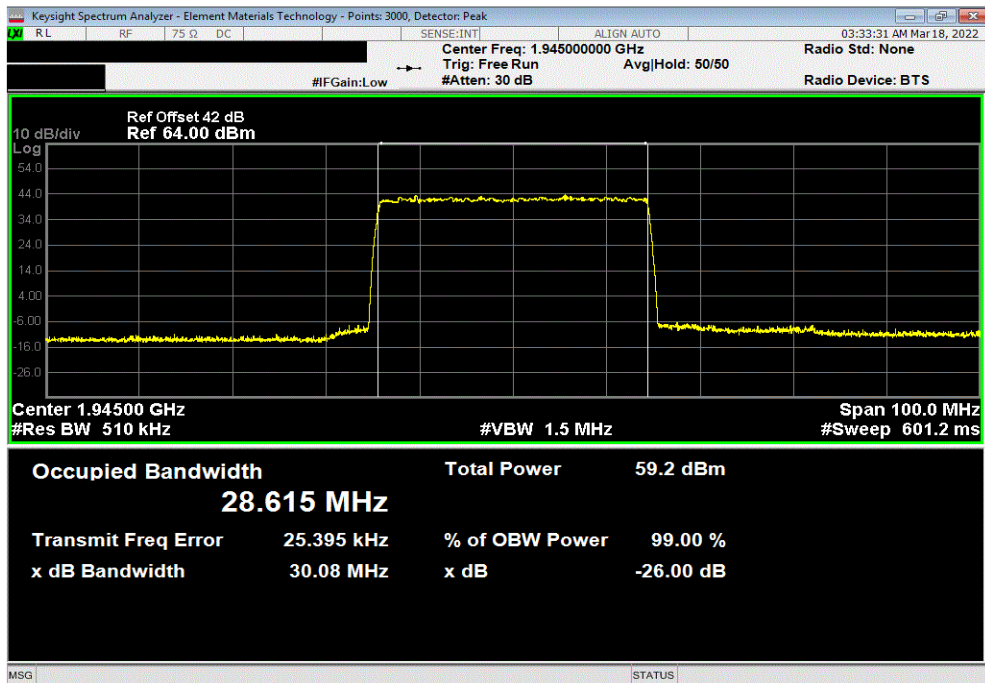


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Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.567	30.06	Within Band	Pass		



Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1945 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.615	30.081	Within Band	Pass		

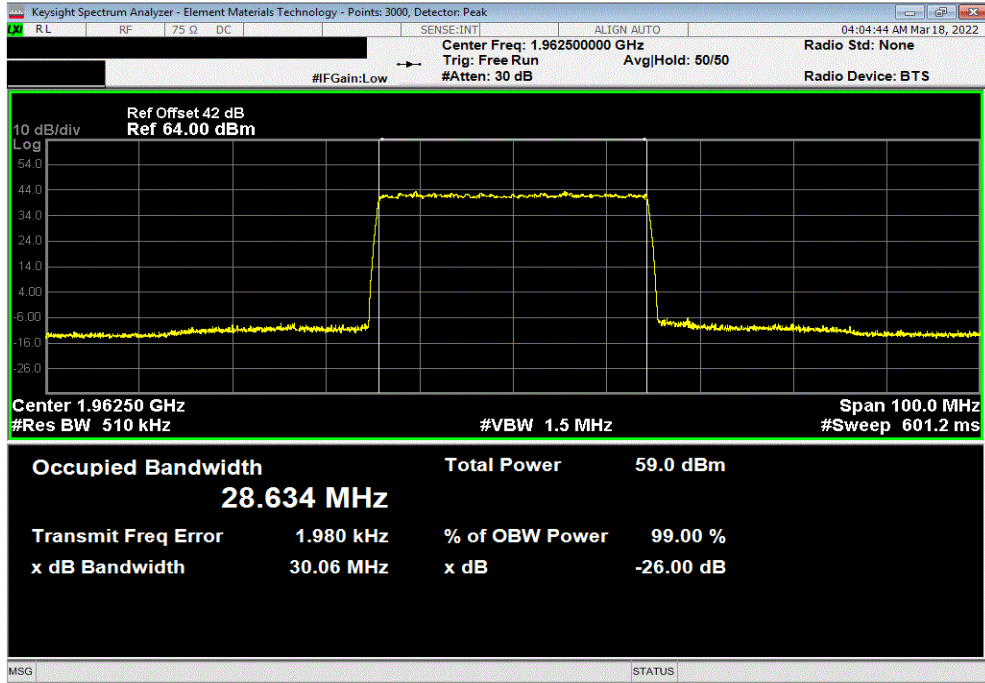


OCCUPIED BANDWIDTH

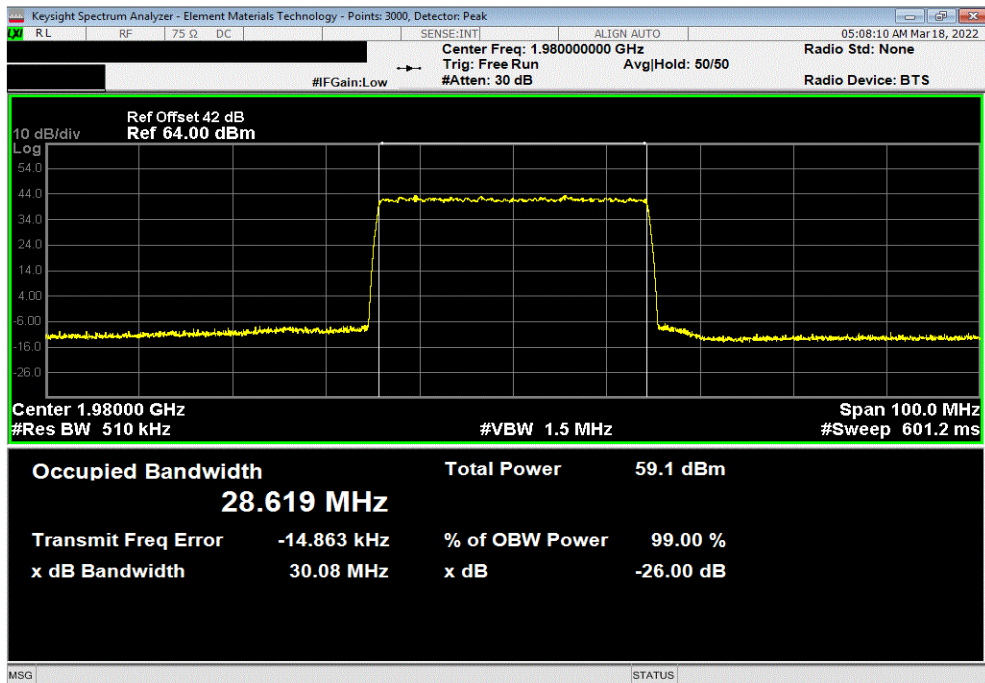


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			28.634	30.061	Within Band	Pass	




Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, High Channel, 1980 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			28.619	30.081	Within Band	Pass	



OCCUPIED BANDWIDTH



TM21 2022.03.14.0 XMI 2022.02.07.0

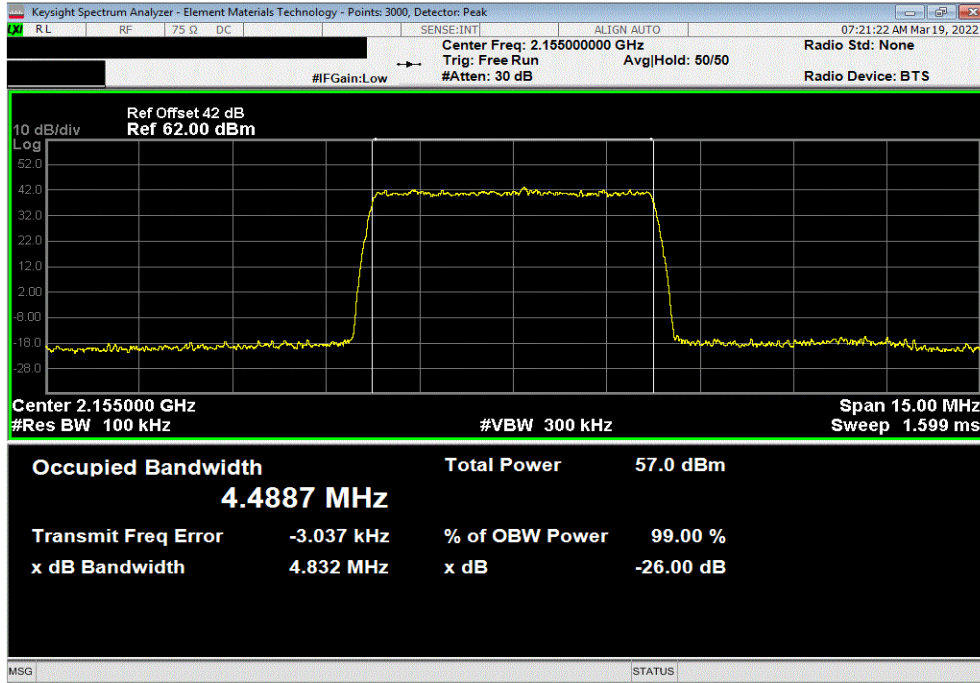
EUT: AHFII Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 19-Mar-22	
Customer: Nokia of America Corporation		Temperature: 20.7 °C	
Attendees: Mitchell Hill		Humidity: 26.9% RH	
Project: None		Barometric Pres.: 1021 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	
		Job Site: TX06	
TEST SPECIFICATIONS		Test Method	
FCC 27:2022		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 (80 watts/carrier).			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value	Value
		99% (MHz)	26dB (MHz)
		Limit	Result
Band n66, 2110 MHz - 2200 MHz, 5G NR			
Port 1			
5 MHz Bandwidth			
QPSK Modulation			
	Mid Channel, 2155 MHz	4.49	4.83
	Within Band		Pass
16-QAM Modulation			
	Mid Channel, 2155 MHz	4.51	4.83
	Within Band		Pass
64-QAM Modulation			
	Mid Channel, 2155 MHz	4.50	4.87
	Within Band		Pass
256-QAM Modulation			
	Low Channel, 2112.5 MHz	4.48	4.84
	Mid Channel, 2155 MHz	4.48	4.85
	High Channel, 2197.5 MHz	4.48	4.84
	Within Band		Pass
10 MHz Bandwidth			
QPSK Modulation			
	Mid Channel, 2155 MHz	9.30	9.92
	Within Band		Pass
16-QAM Modulation			
	Mid Channel, 2155 MHz	9.24	9.86
	Within Band		Pass
64-QAM Modulation			
	Mid Channel, 2155 MHz	9.30	9.92
	Within Band		Pass
256-QAM Modulation			
	Low Channel, 2115 MHz	9.31	9.91
	Mid Channel, 2155 MHz	9.31	9.92
	High Channel, 2195 MHz	9.31	9.94
	Within Band		Pass
15 MHz Bandwidth			
QPSK Modulation			
	Mid Channel, 2155 MHz	14.1	14.9
	Within Band		Pass
16-QAM Modulation			
	Mid Channel, 2155 MHz	14.1	14.9
	Within Band		Pass
64-QAM Modulation			
	Mid Channel, 2155 MHz	14.1	14.9
	Within Band		Pass
256-QAM Modulation			
	Low Channel, 2117.5 MHz	14.1	14.9
	Mid Channel, 2155 MHz	14.1	14.9
	High Channel, 2192.5 MHz	14.1	14.9
	Within Band		Pass
20 MHz Bandwidth			
QPSK Modulation			
	Mid Channel, 2155 MHz	18.9	20.0
	Within Band		Pass
16-QAM Modulation			
	Mid Channel, 2155 MHz	19.0	20.0
	Within Band		Pass
64-QAM Modulation			
	Mid Channel, 2155 MHz	19.0	20.0
	Within Band		Pass
256-QAM Modulation			
	Low Channel, 2120 MHz	18.9	20.0
	Mid Channel, 2155 MHz	18.9	20.0
	High Channel, 2190 MHz	18.9	20.0
	Within Band		Pass
30 MHz Bandwidth			
QPSK Modulation			
	Mid Channel, 2155 MHz	28.5	30.1
	Within Band		Pass
16-QAM Modulation			
	Mid Channel, 2155 MHz	28.4	30.0
	Within Band		Pass
64-QAM Modulation			
	Mid Channel, 2155 MHz	28.6	30.1
	Within Band		Pass
256-QAM Modulation			
	Low Channel, 2125 MHz	28.6	30.1
	Mid Channel, 2155 MHz	28.6	30.1
	High Channel, 2185 MHz	28.6	30.0
	Within Band		Pass

OCCUPIED BANDWIDTH

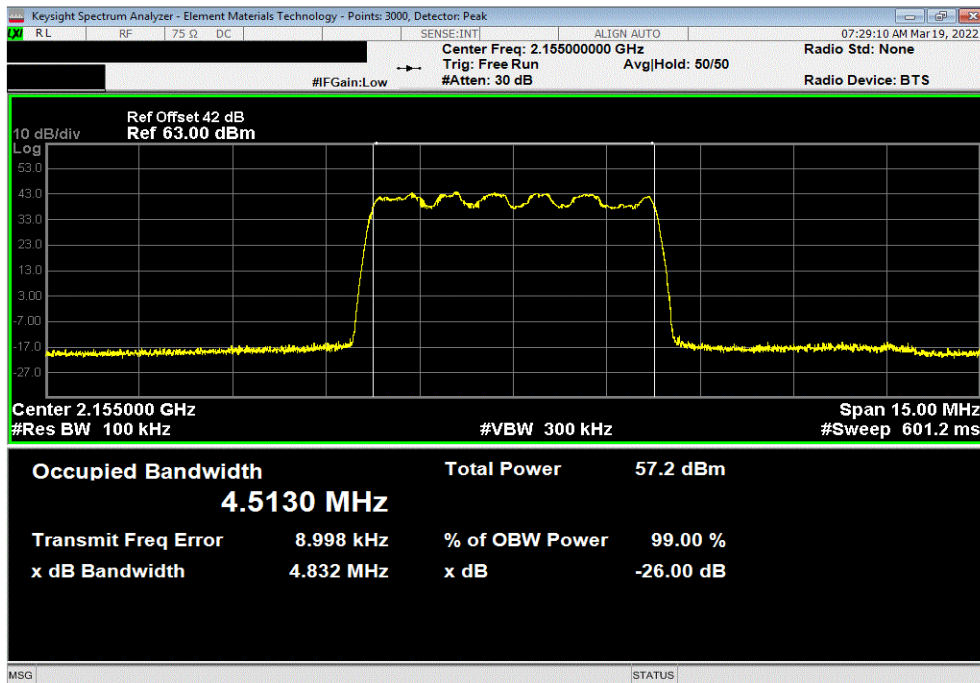


TbTx 2022.03.14.0 XMt 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.489	4.832			Within Band	Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.513	4.832			Within Band	Pass

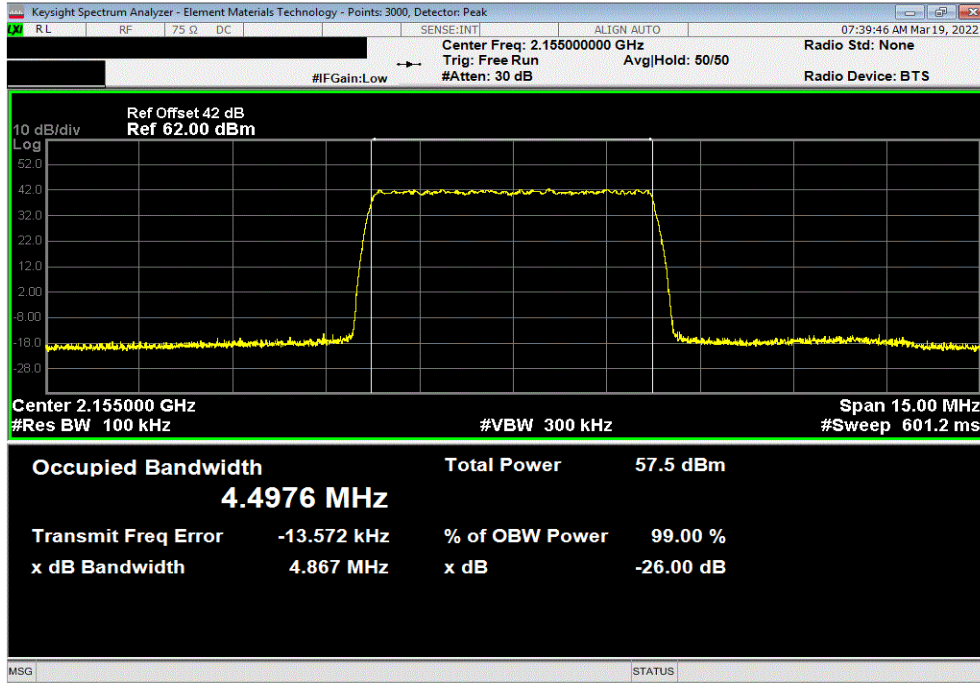


OCCUPIED BANDWIDTH

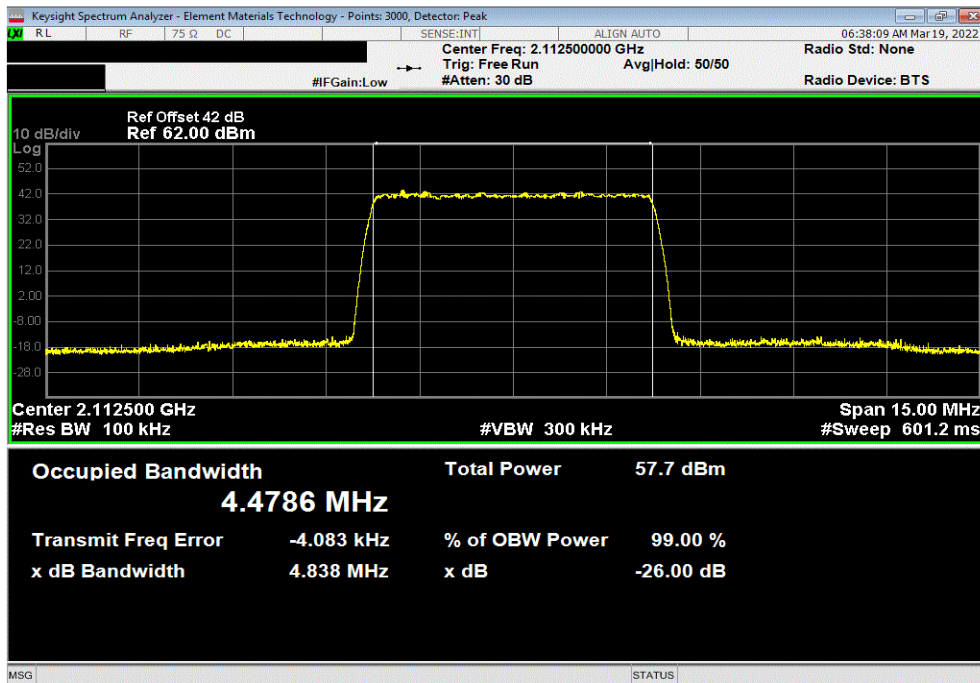


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.498	4.867			Within Band	Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2112.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		4.479	4.838			Within Band	Pass

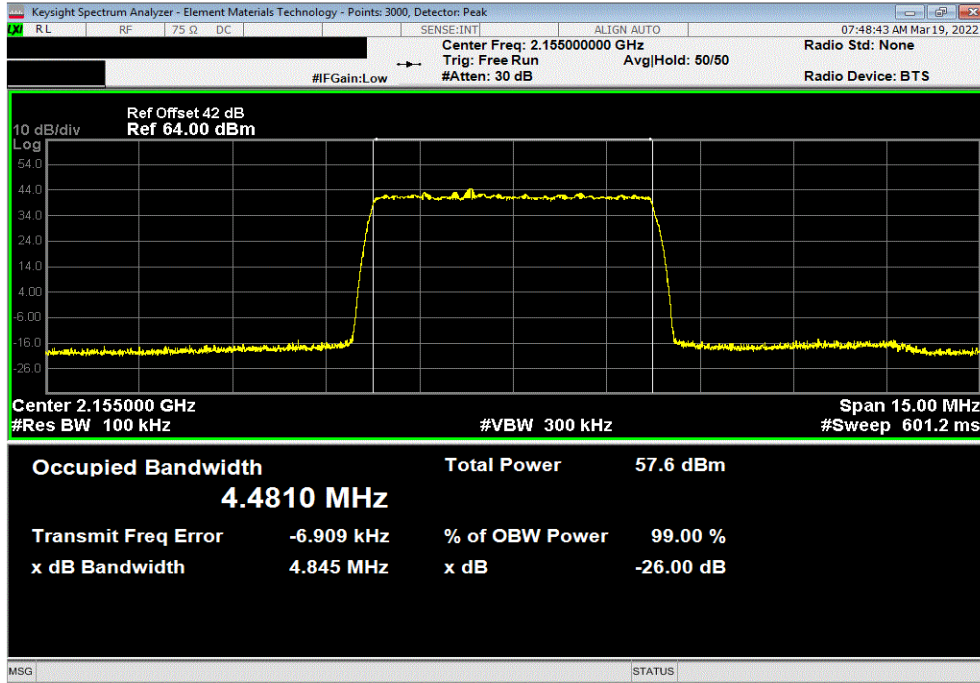


OCCUPIED BANDWIDTH

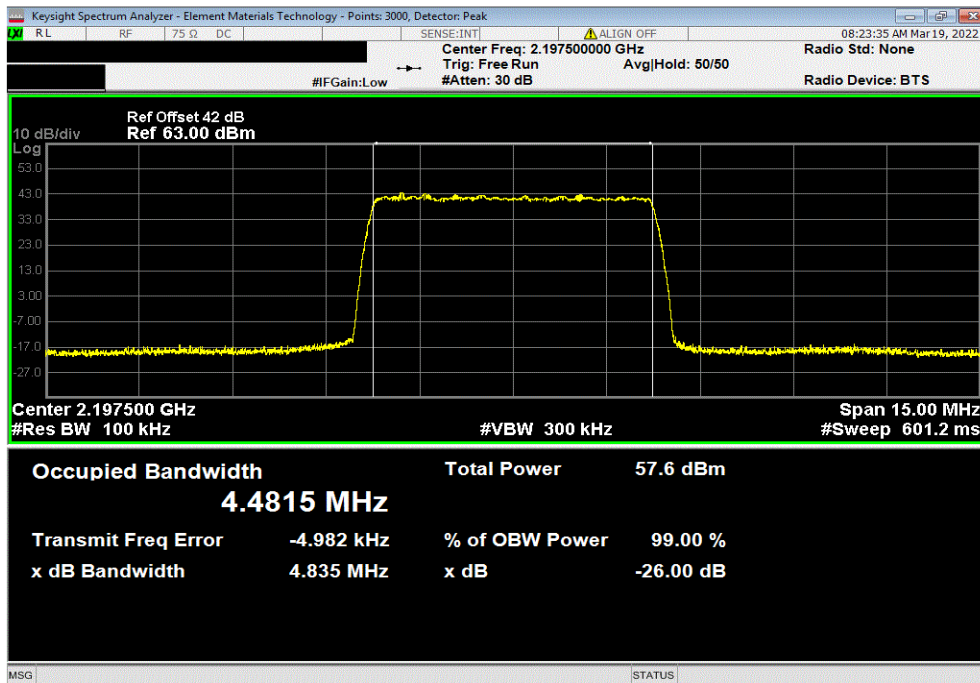


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			4.481	4.845	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 2197.5 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			4.482	4.835	Within Band	Pass	

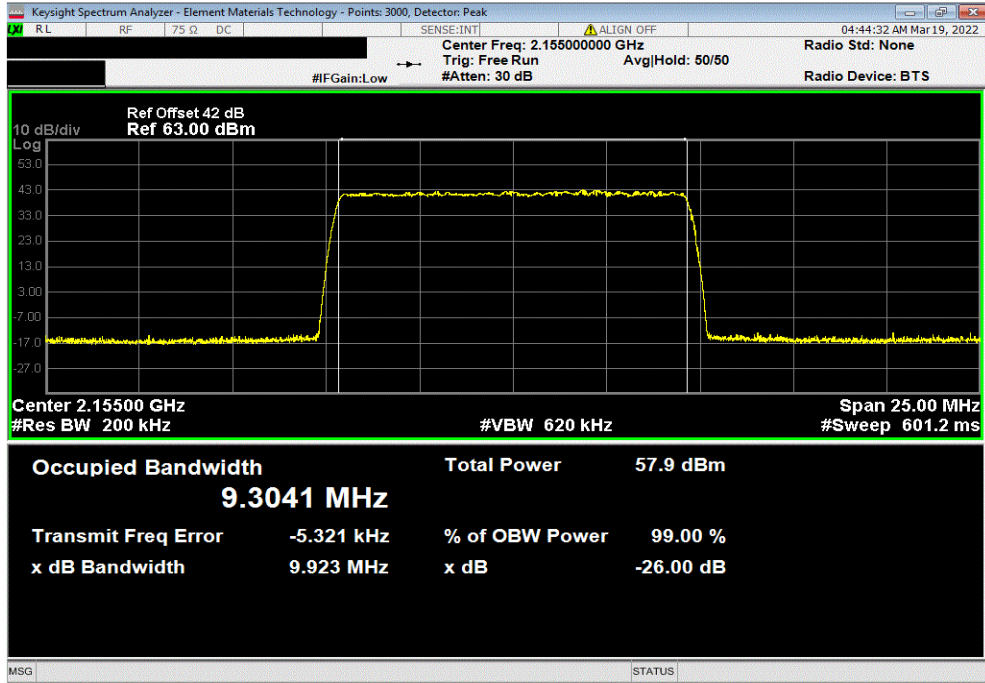


OCCUPIED BANDWIDTH

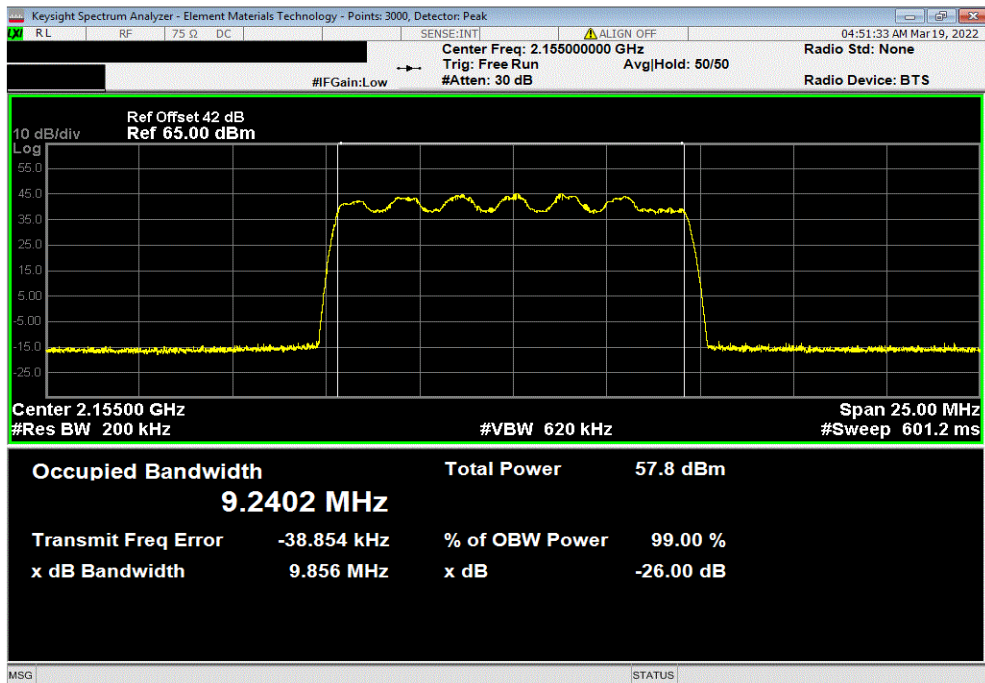


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.304	9.923	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.24	9.856	Within Band	Pass		

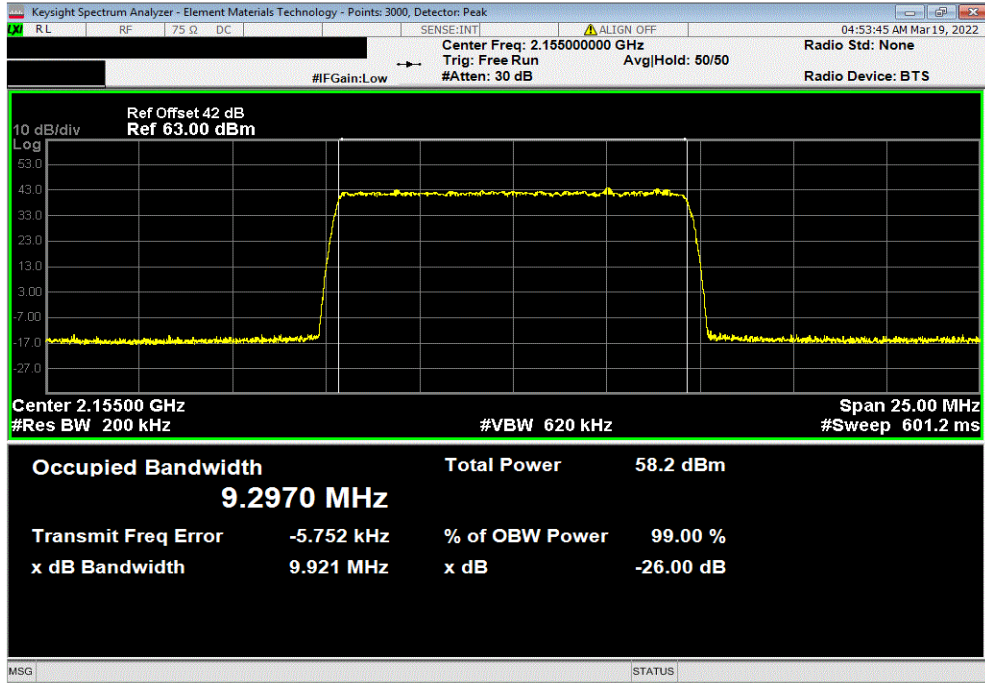


OCCUPIED BANDWIDTH

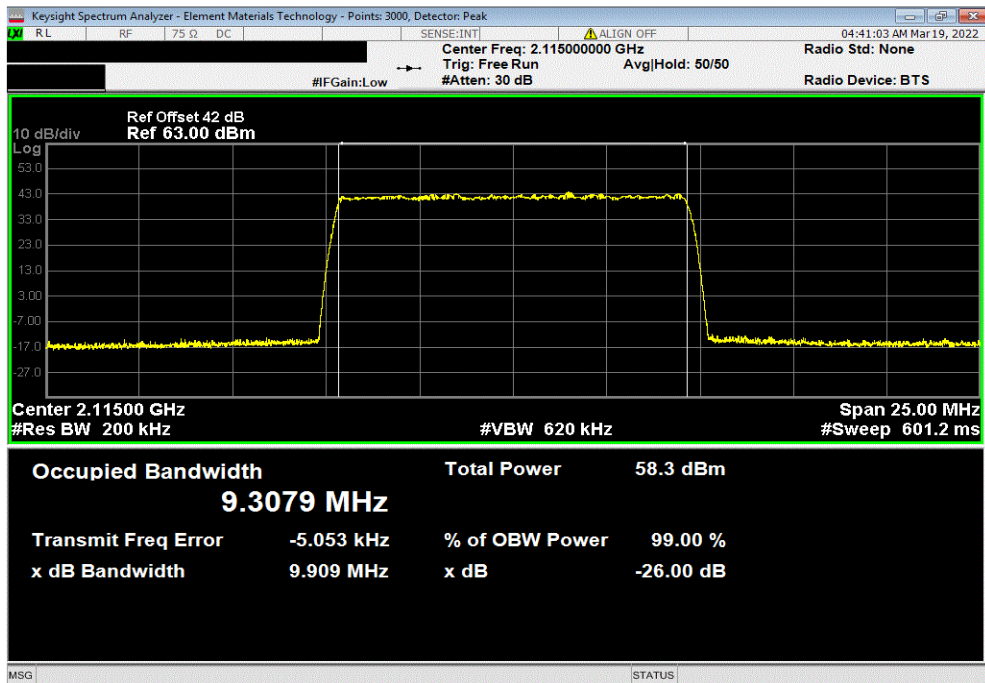


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.297	9.921	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2115 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.308	9.909	Within Band	Pass		

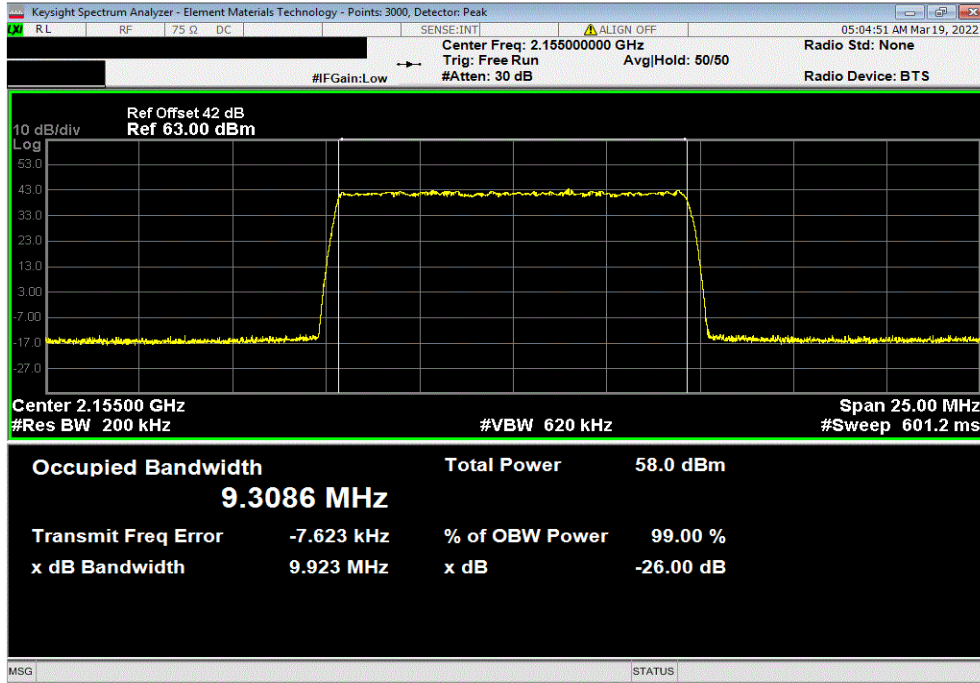


OCCUPIED BANDWIDTH

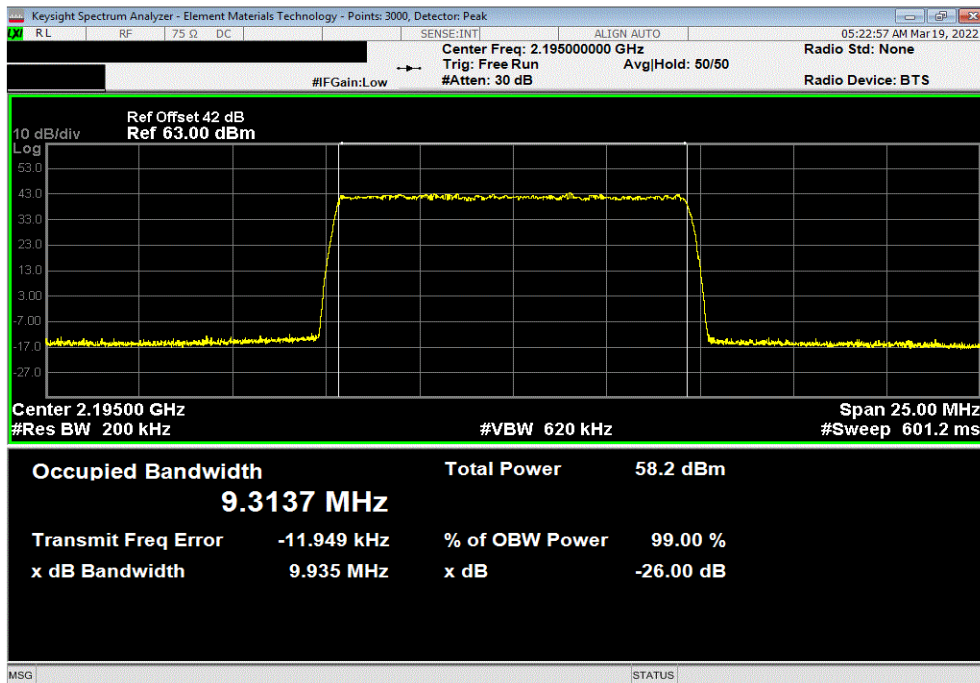


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.309	9.923	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 2195 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	9.314	9.935	Within Band	Pass		

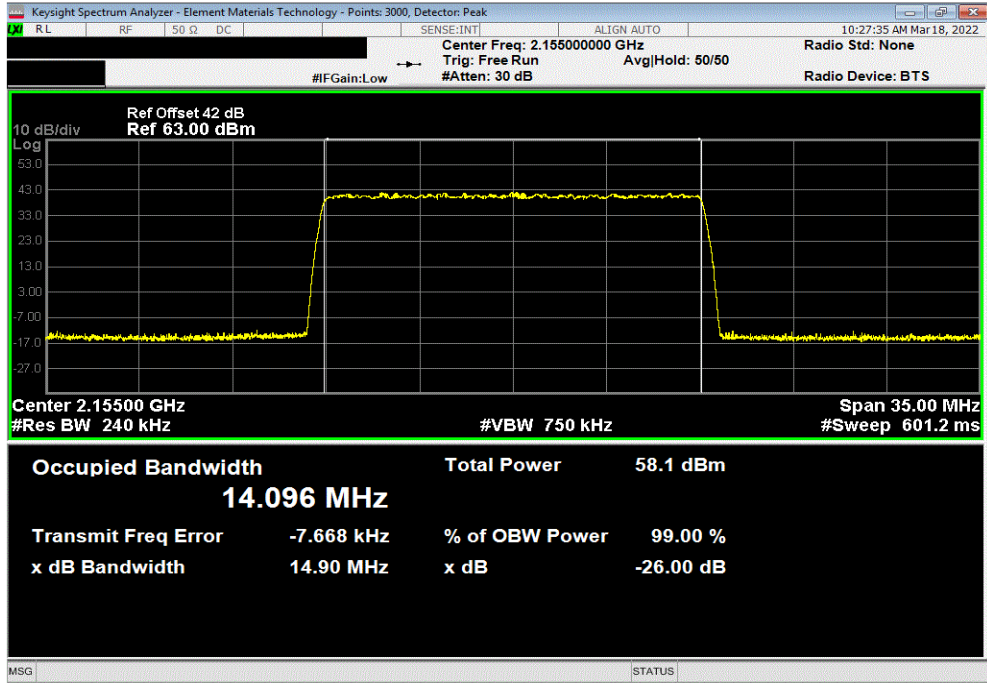


OCCUPIED BANDWIDTH

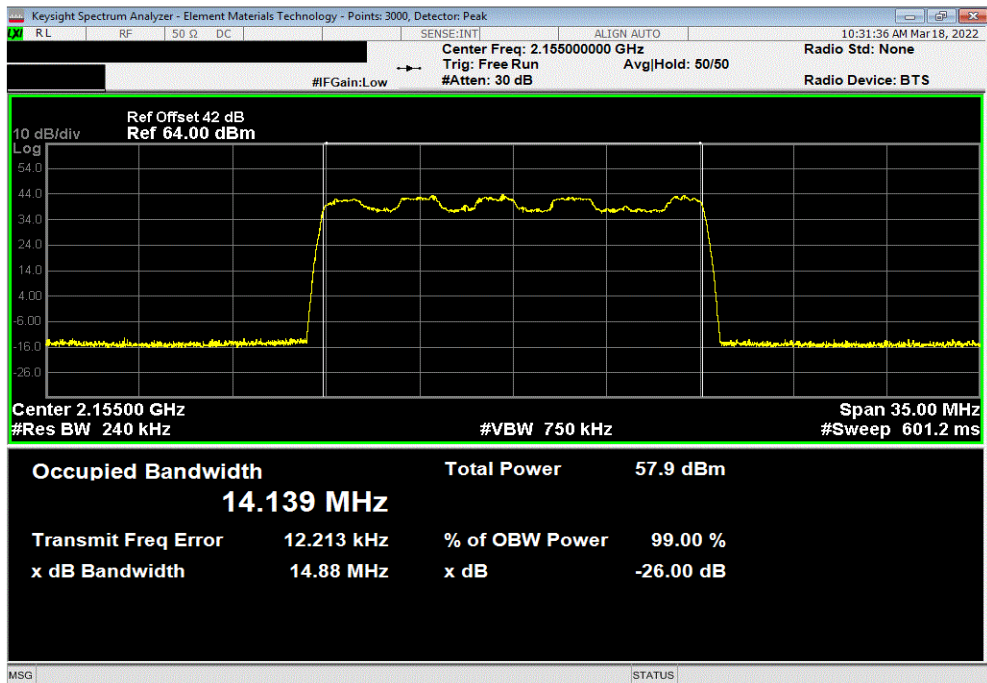


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		14.096	14.901	Within Band			Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		14.139	14.881	Within Band			Pass

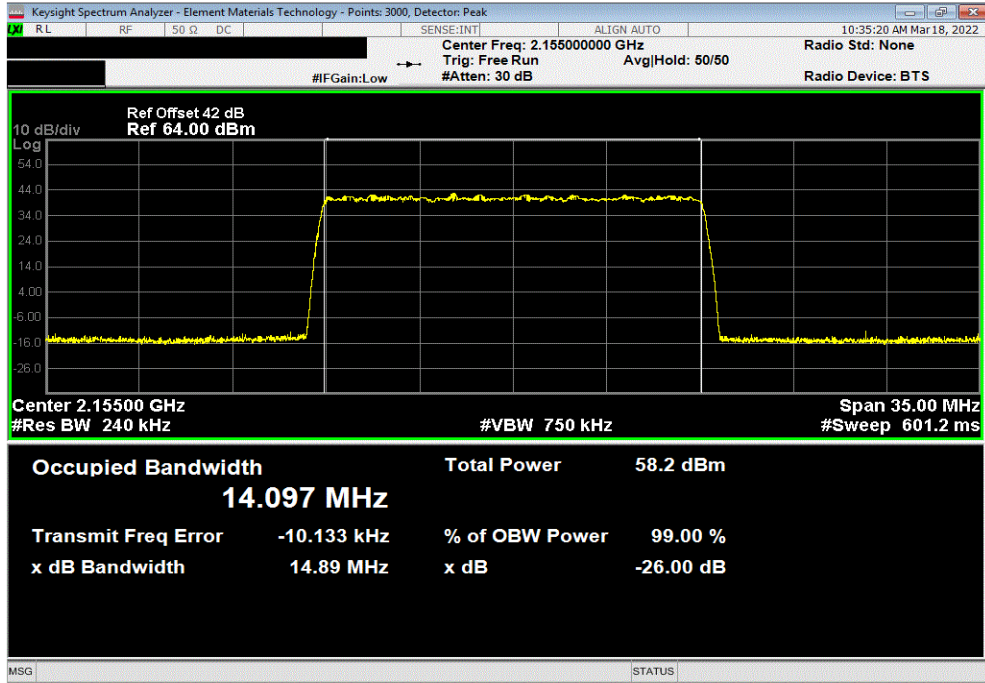


OCCUPIED BANDWIDTH

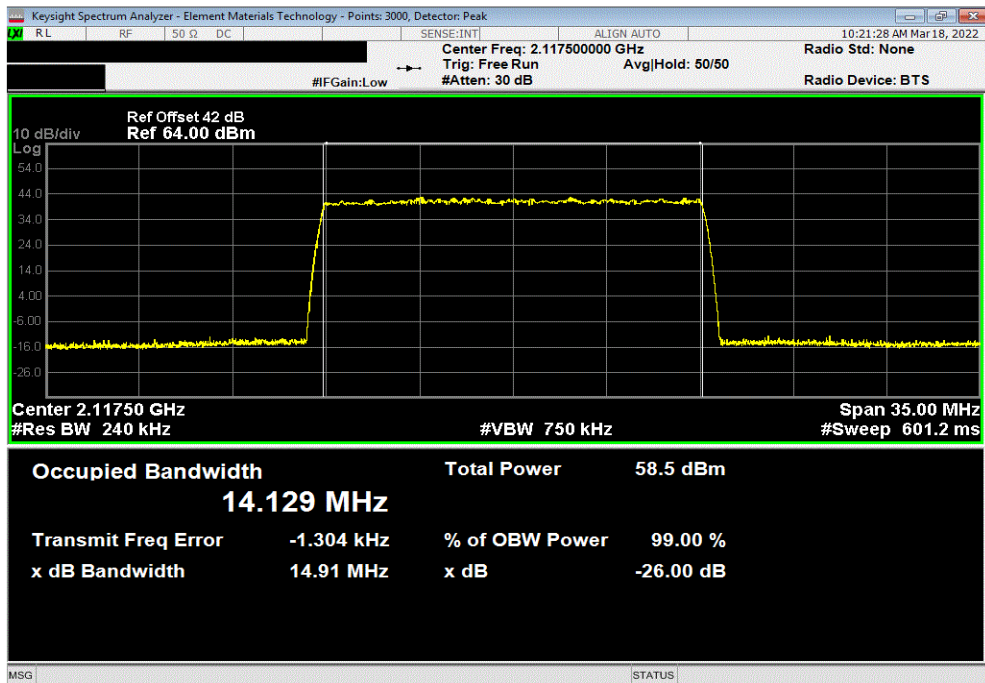


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	14.097	14.888	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2117.5 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	14.129	14.915	Within Band	Pass		

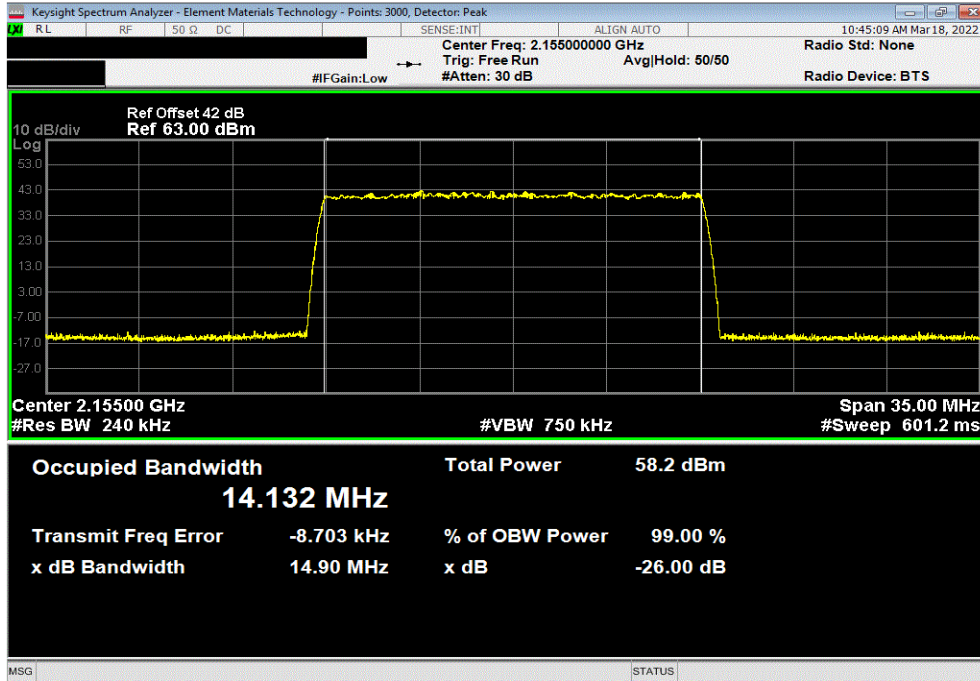


OCCUPIED BANDWIDTH

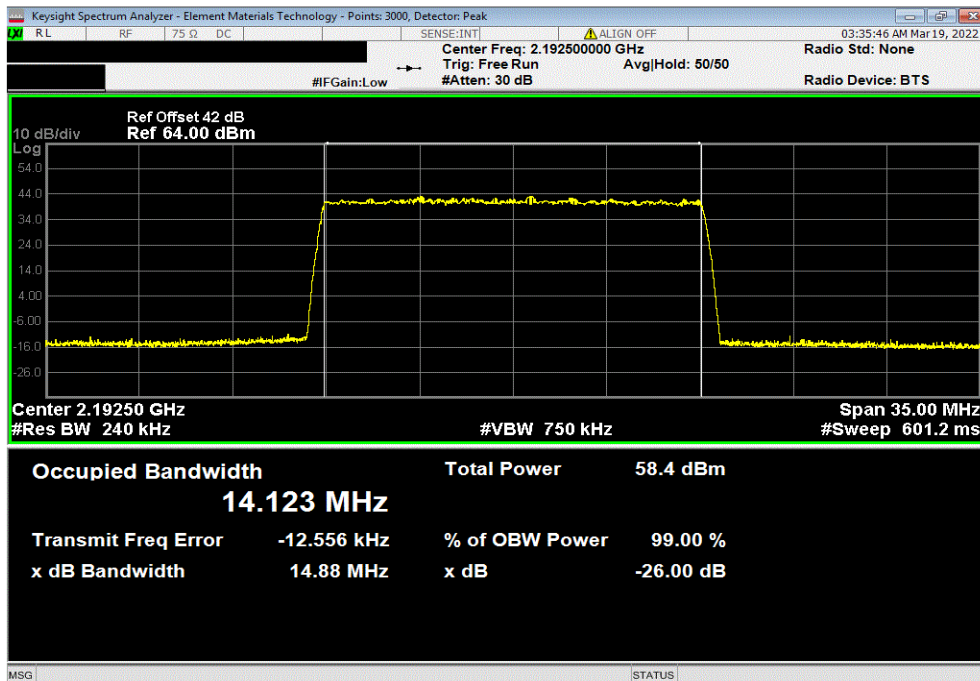


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		14.132	14.903			Within Band	Pass



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 2192.5 MHz							
		Value	Value			Limit	Result
		99% (MHz)	26dB (MHz)				
		14.123	14.88			Within Band	Pass

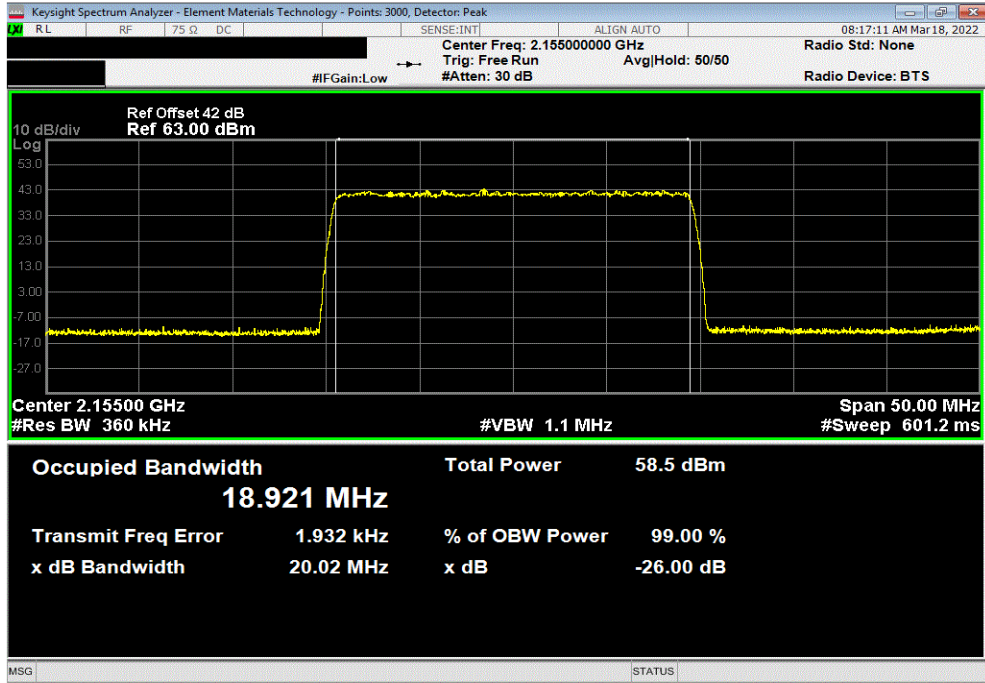


OCCUPIED BANDWIDTH

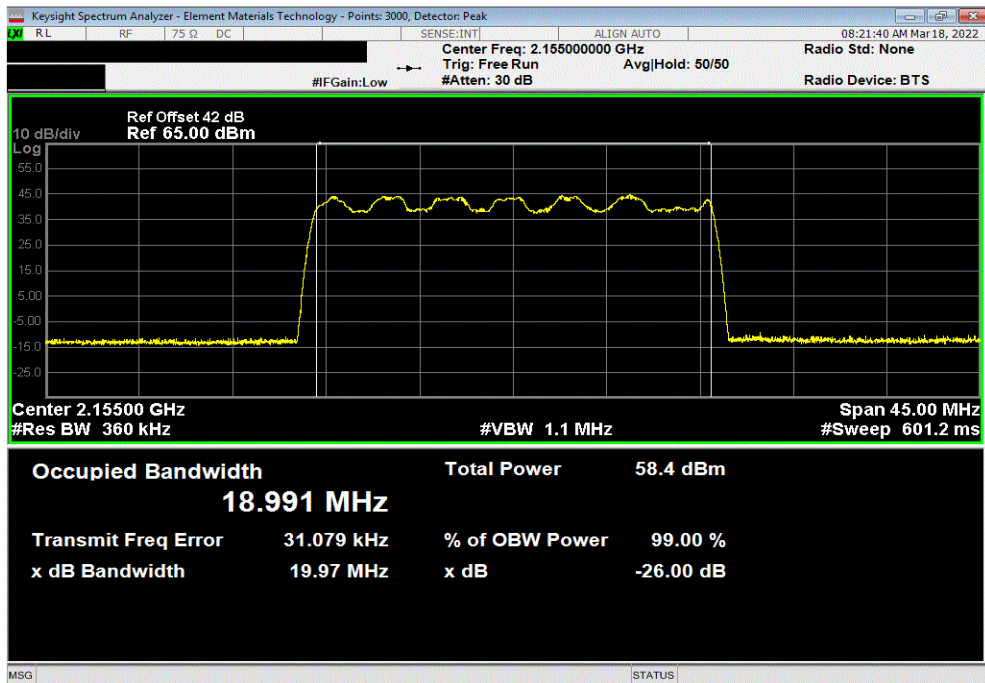


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	18.921	20.022	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	18.991	19.971	Within Band	Pass		

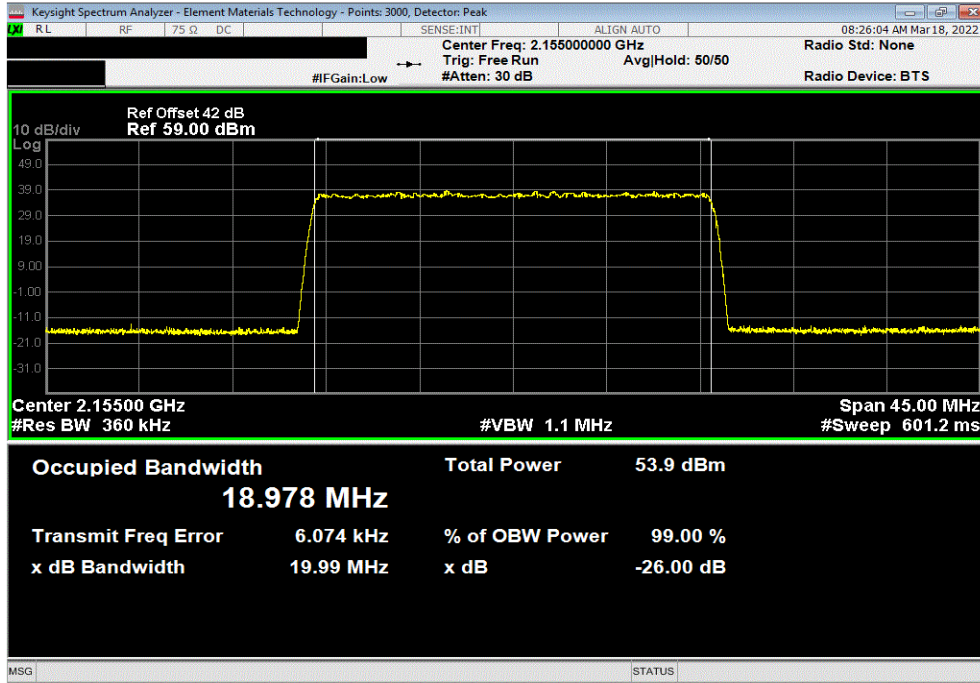


OCCUPIED BANDWIDTH

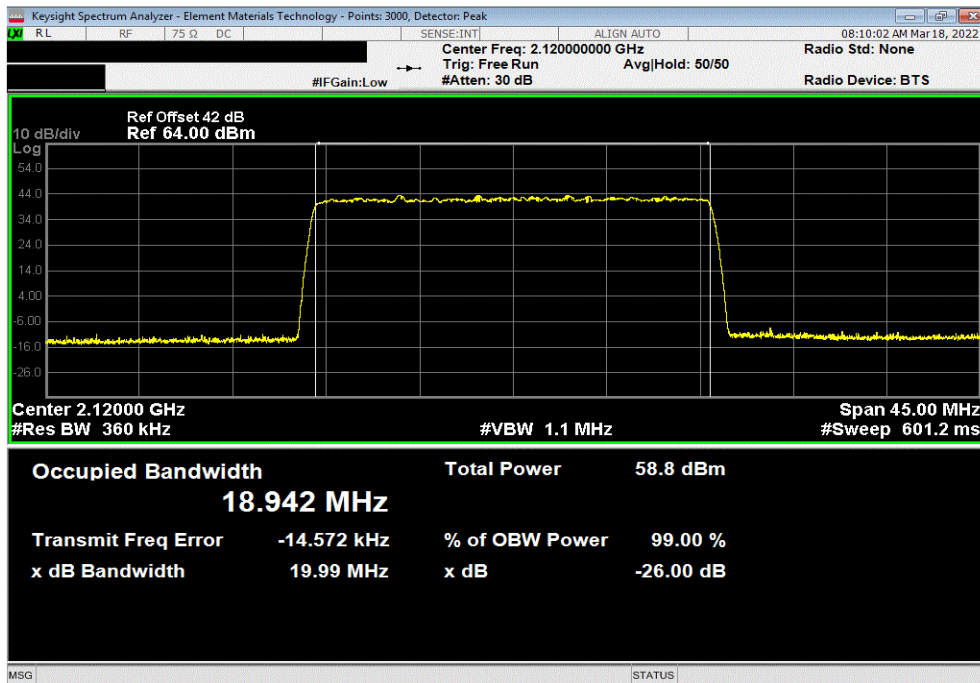


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz							
		Value	Value	Limit	Result		
		99% (MHz)	26dB (MHz)				
		18.978	19.986	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2120 MHz							
		Value	Value	Limit	Result		
		99% (MHz)	26dB (MHz)				
		18.942	19.993	Within Band	Pass		

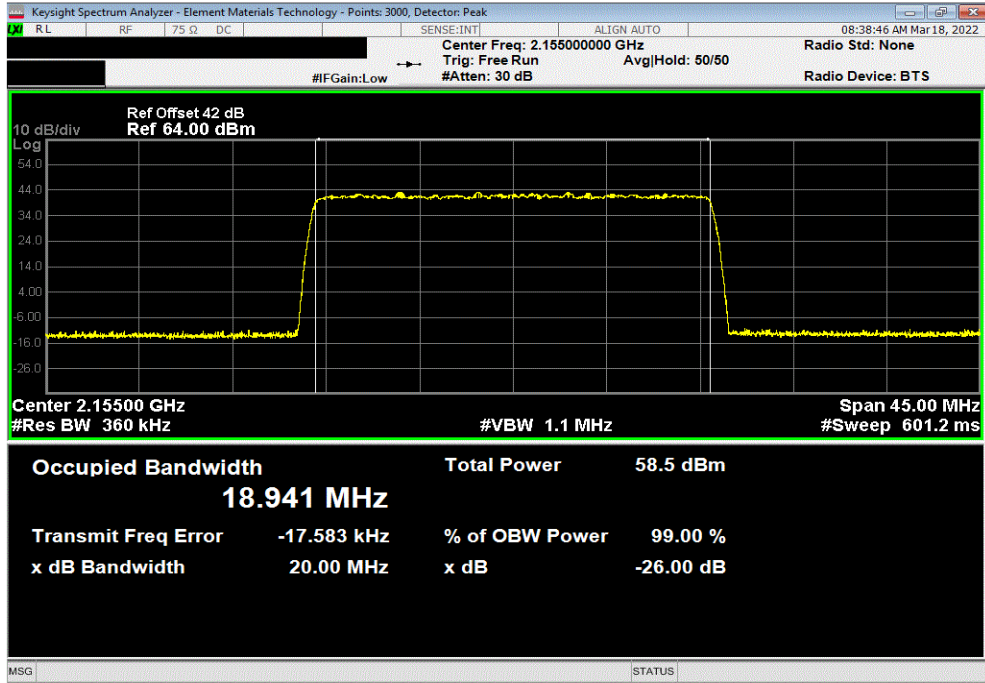


OCCUPIED BANDWIDTH

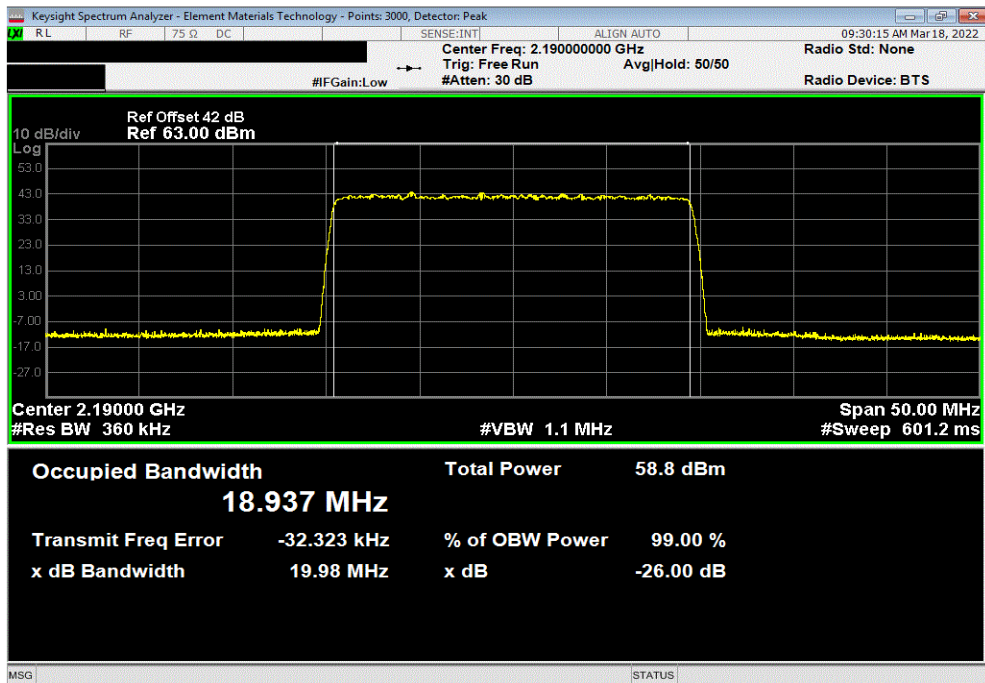


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.941	20.003	Within Band	Pass	



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 2190 MHz							
			Value	Value	Limit	Result	
			99% (MHz)	26dB (MHz)			
			18.937	19.977	Within Band	Pass	

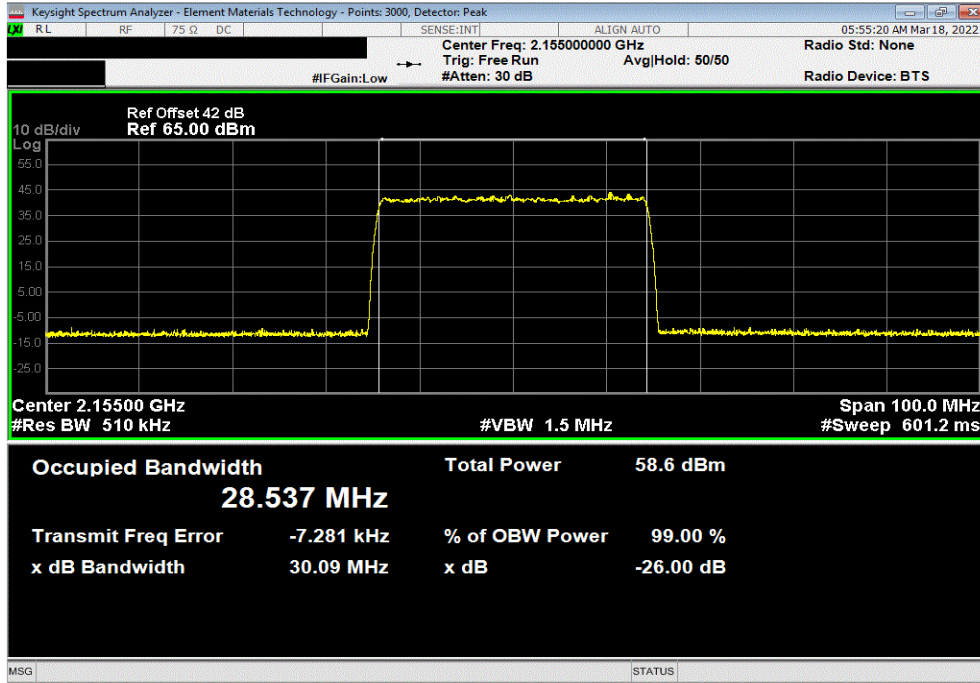


OCCUPIED BANDWIDTH

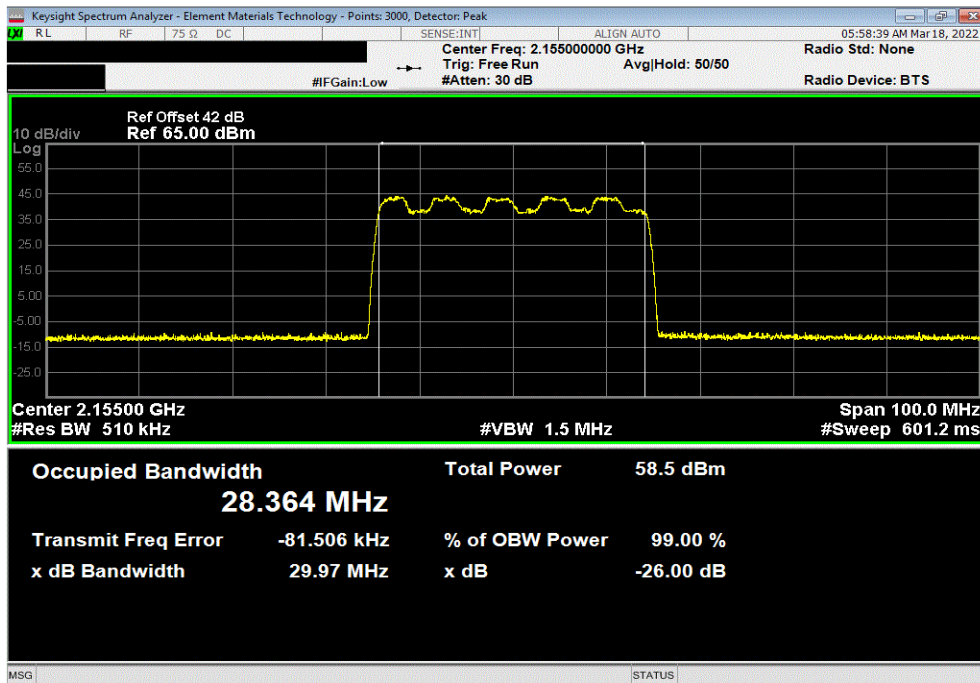


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.537	30.088	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.364	29.975	Within Band	Pass		

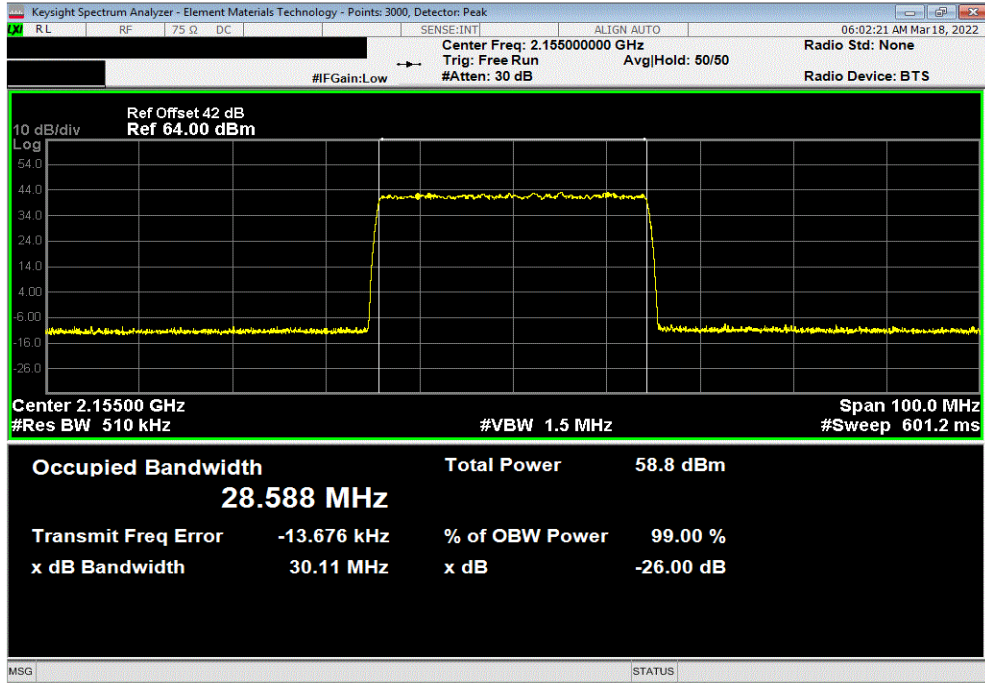


OCCUPIED BANDWIDTH

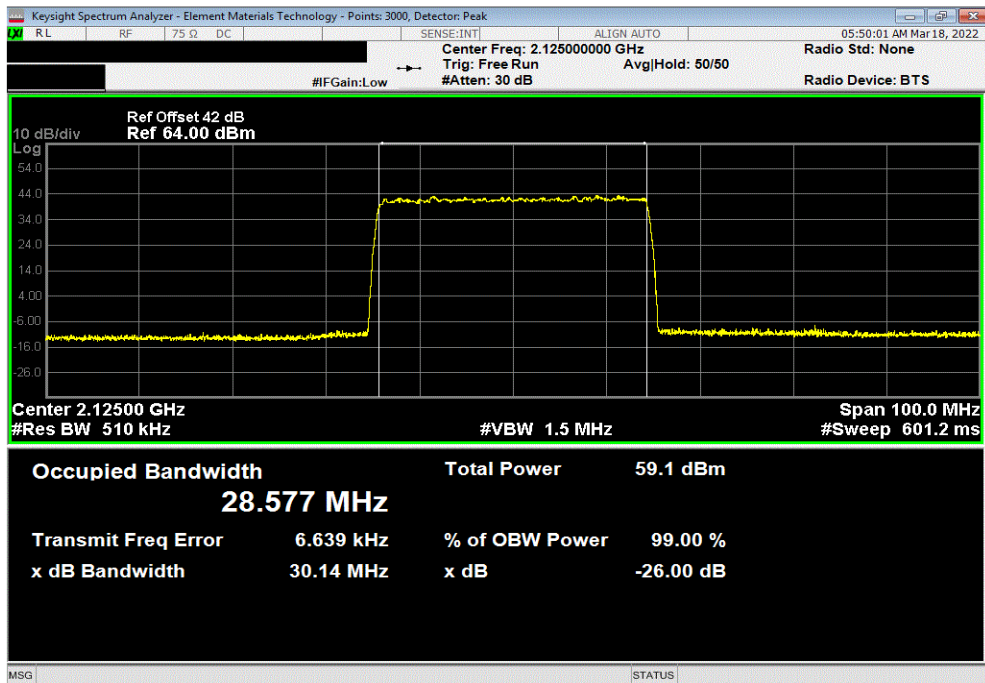


TbTx 2022.03.14.0 XMI 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.588	30.113	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2125 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.577	30.136	Within Band	Pass		

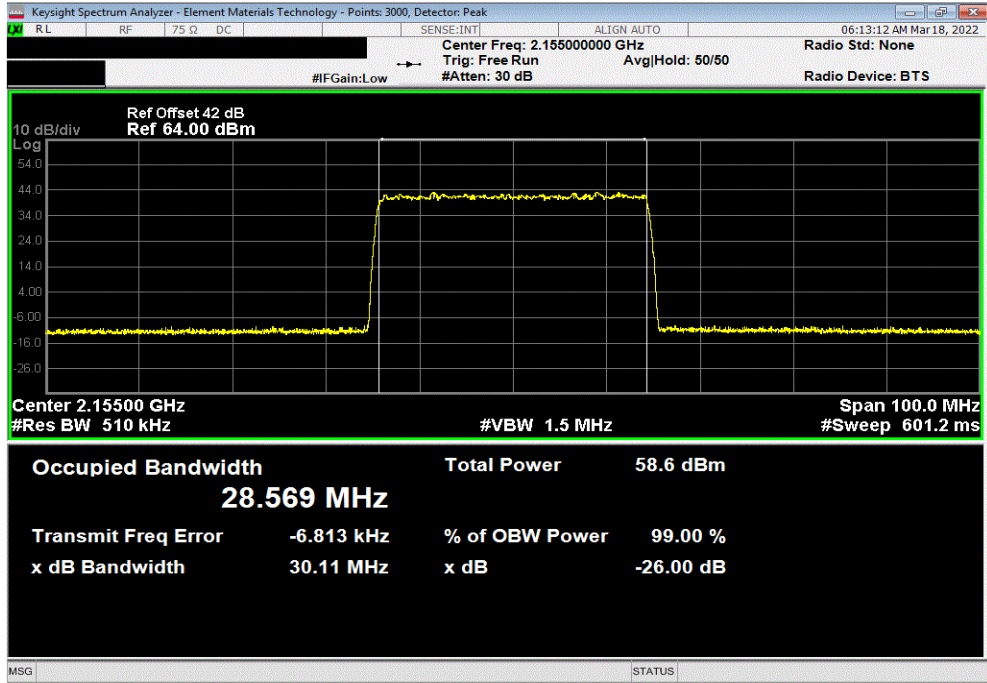


OCCUPIED BANDWIDTH



TbTx 2022.03.14.0 XMi 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.569	30.106	Within Band	Pass		



Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 256-QAM Modulation, High Channel, 2185 MHz						
	Value	Value	Limit	Result		
	99% (MHz)	26dB (MHz)				
	28.582	30.024	Within Band	Pass		

