

OCCUPIED BANDWIDTH



XMit 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	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.

OCCUPIED BANDWIDTH



TbTx 2021.12.14.1

XMI 2022.02.07.0

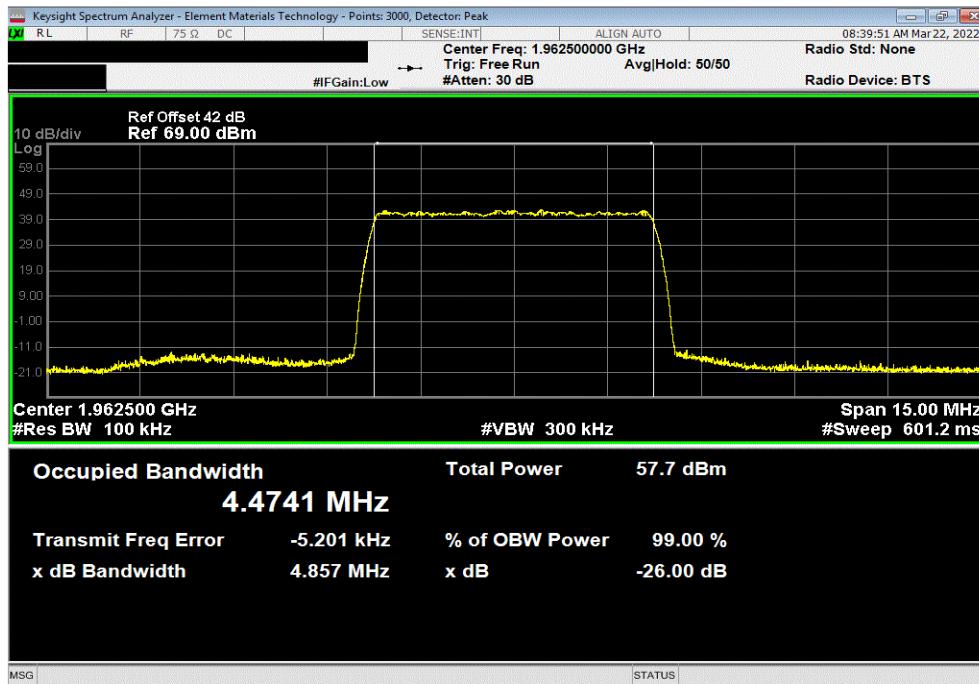
EUT:	AHFII Remote Radio Head	Work Order:	NOKI0038		
Serial Number:	YK214000035	Date:	18-Mar-22		
Customer:	Nokia of America Corporation	Temperature:	21.2 °C		
Attendees:	Mitchell Hill	Humidity:	28.9% RH		
Project:	None	Barometric Pres.:	1018 mbar		
Tested by:	Brandon Hobbs	Power:	54 VDC		
Job Site:	TX06				
TEST SPECIFICATIONS					
FCC 24E:2022	ANSI C63.26:2015				
RSS-133 Issue 6:2013+A1:2018	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 99% (MHz)	Value 26dB (MHz)	Limit	Result
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 Mid Channel, 1962.5 MHz High Channel, 1992.5 MHz	4.49 4.48 4.47	4.85 4.85 4.82	Within Band Within Band Within Band	Pass Pass 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 Mid Channel, 1962.5 MHz High Channel, 1990 MHz	9.34 9.32 9.30	9.99 9.93 9.94	Within Band Within Band Within Band	Pass Pass 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 Mid Channel, 1962.5 MHz High Channel, 1987.5 MHz	14.1 14.1 14.1	14.9 14.9 14.9	Within Band Within Band Within Band	Pass Pass 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 Mid Channel, 1962.5 MHz High Channel, 1985 MHz	18.9 18.9 18.9	20.0 20.0 20.0	Within Band Within Band Within Band	Pass Pass 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 Mid Channel, 1962.5 MHz High Channel, 1980 MHz	28.6 28.6 28.6	30.1 30.1 30.1	Within Band Within Band Within Band	Pass Pass Pass

OCCUPIED BANDWIDTH

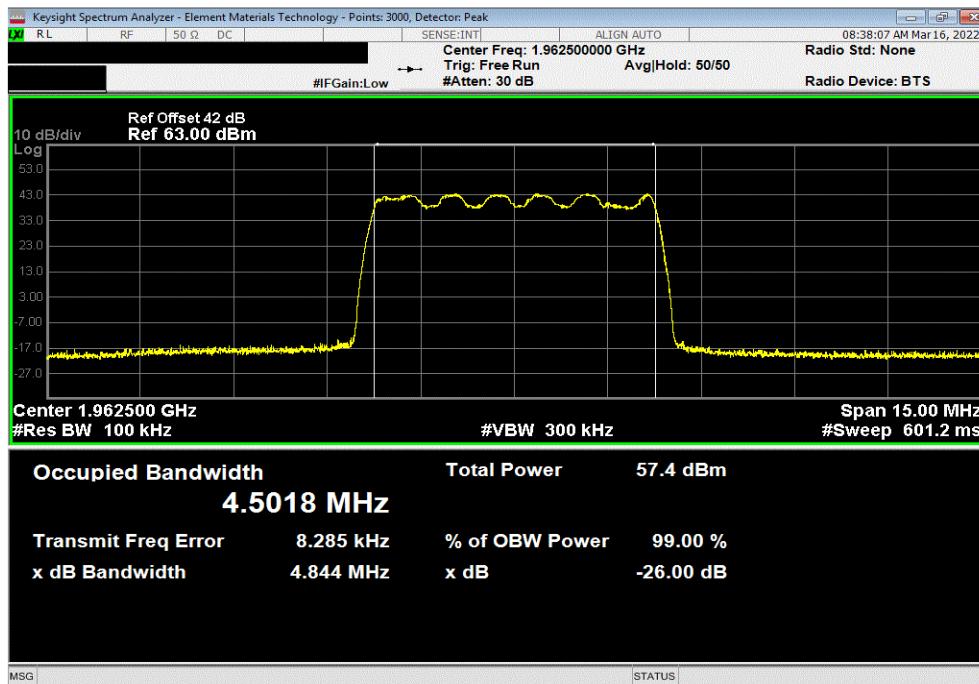


TbTx 2021.12.14.1 XMit 2022.02.07.0

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



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

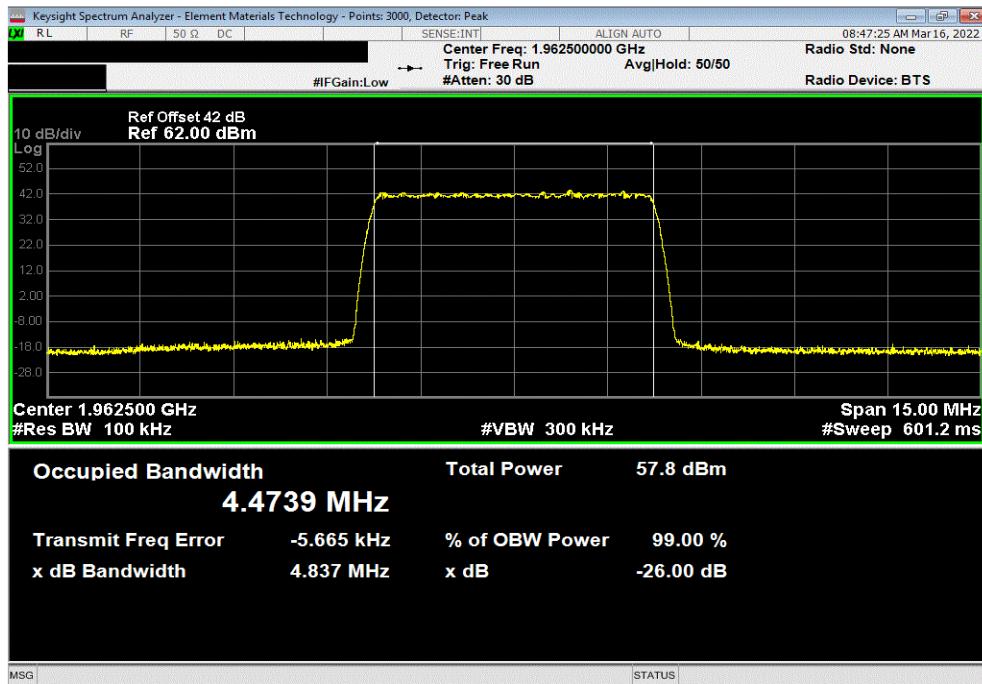


OCCUPIED BANDWIDTH

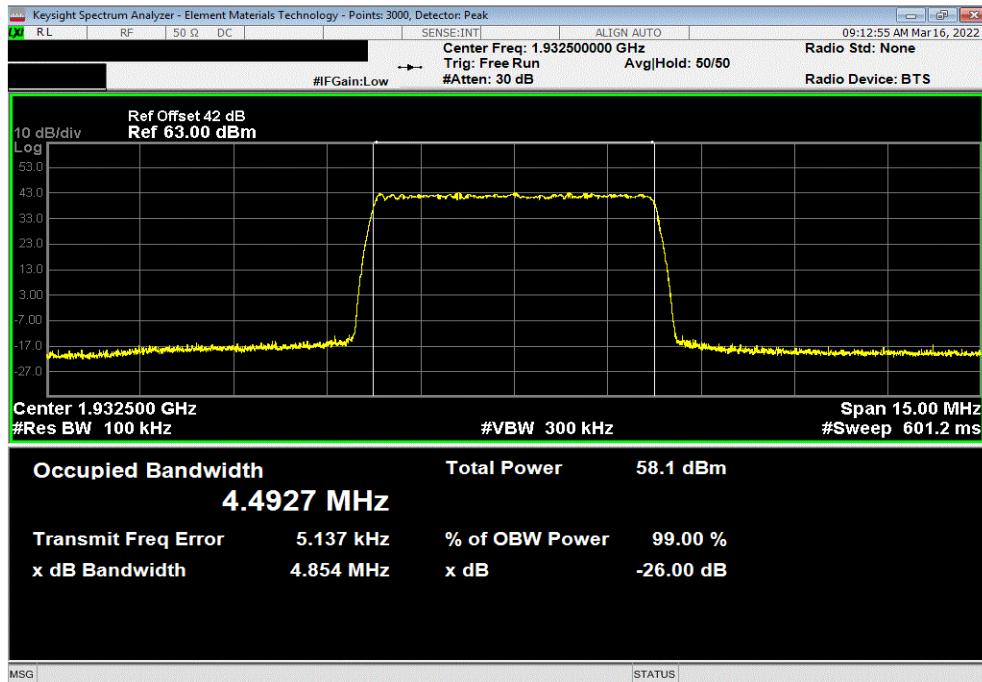


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	4.493	4.854	Within Band	Pass	

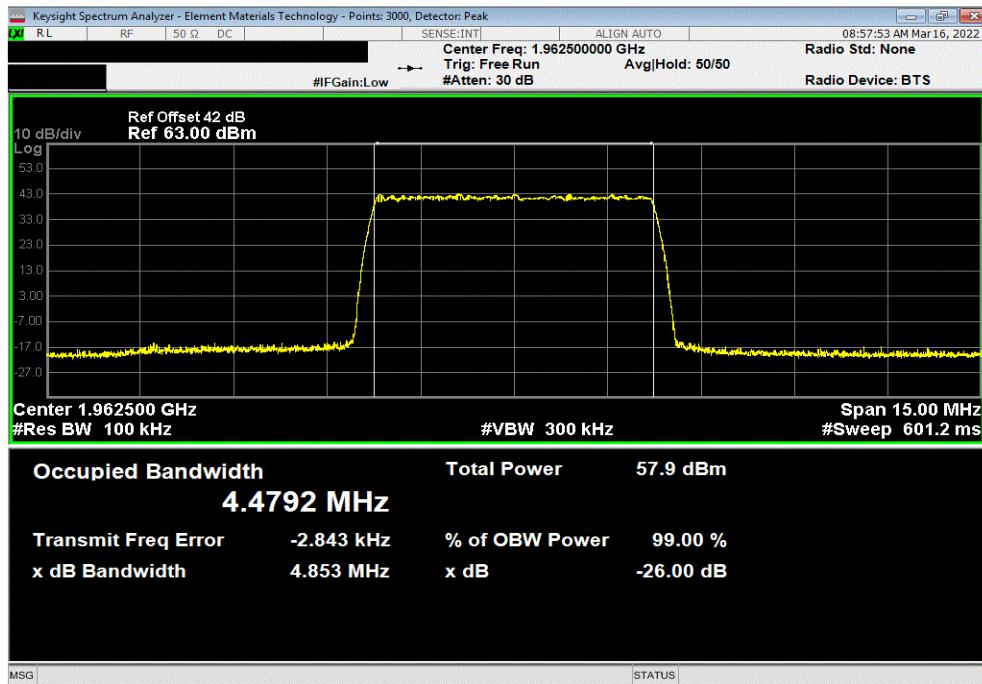


OCCUPIED BANDWIDTH

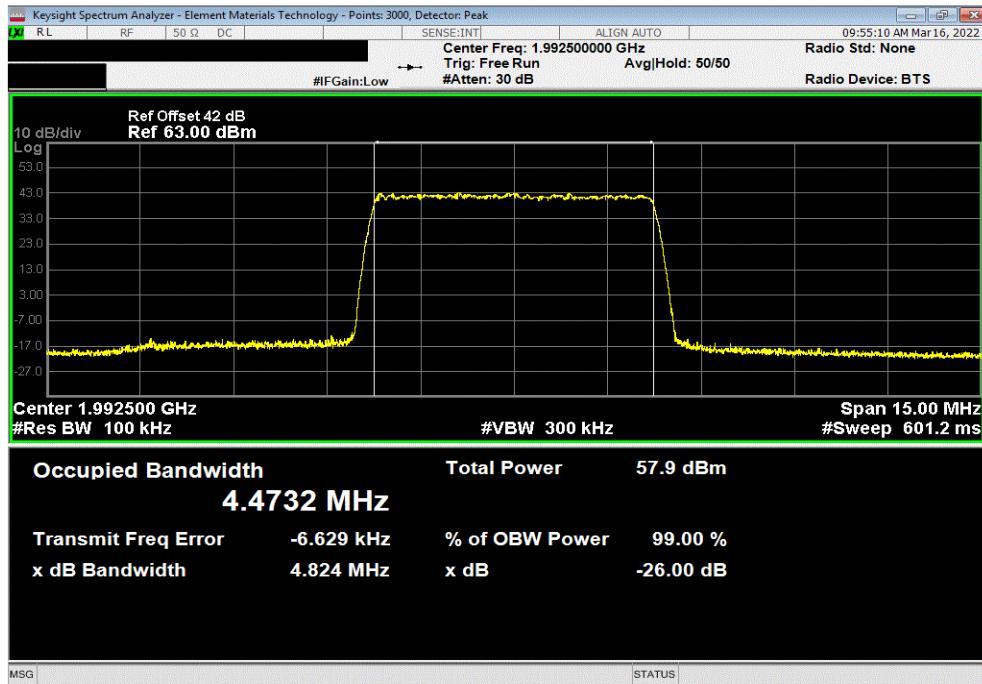


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	4.473	4.824	Within Band	Pass	

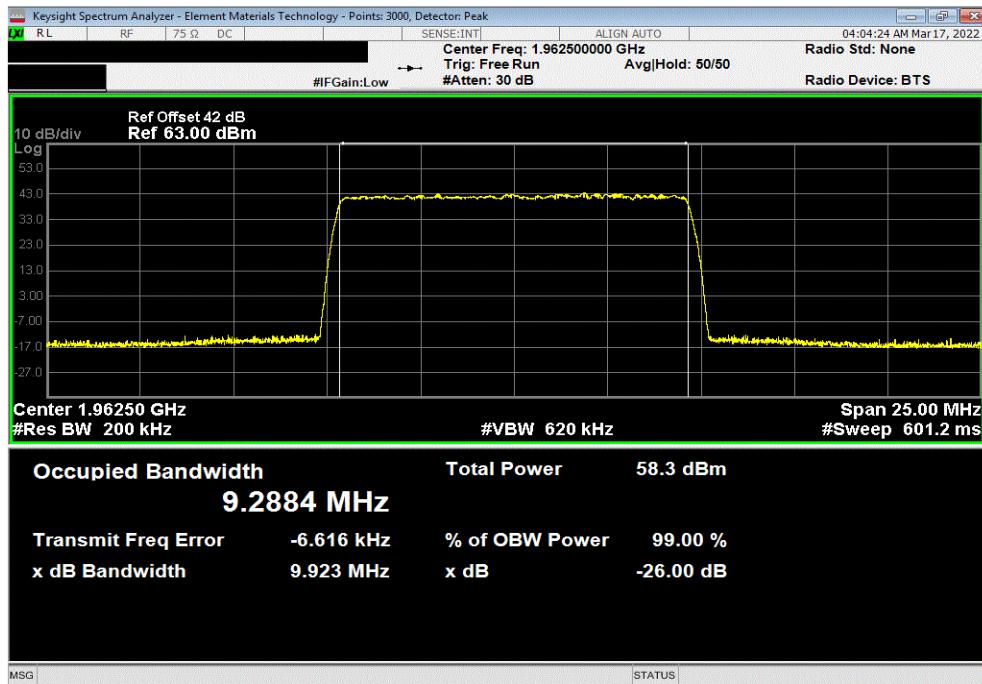


OCCUPIED BANDWIDTH

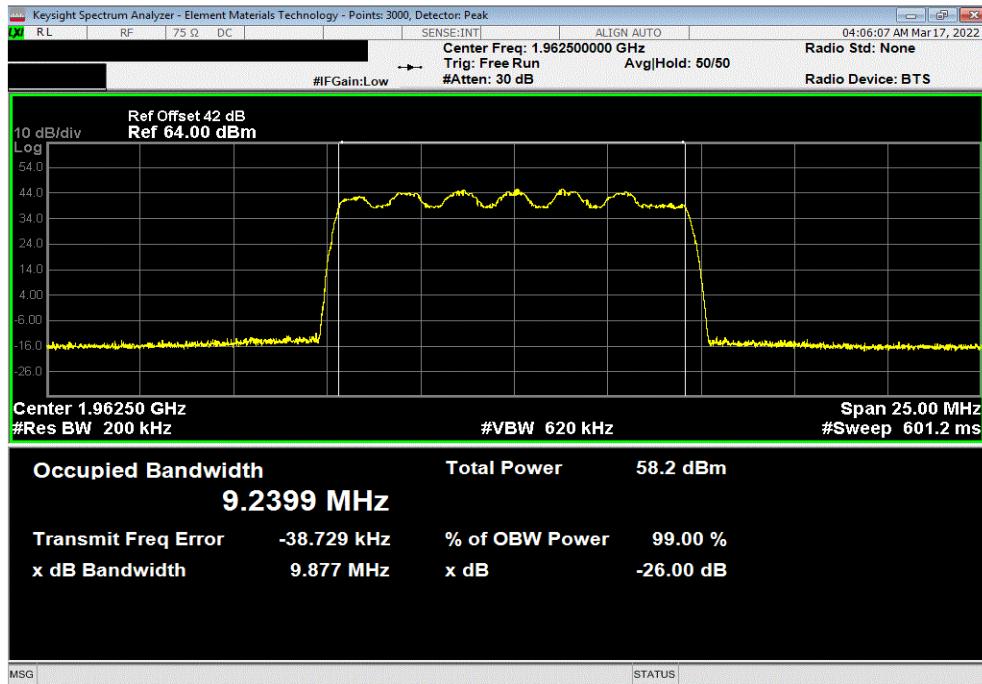


TbTx 2021.12.14.1 XMit 2022.02.07.0

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

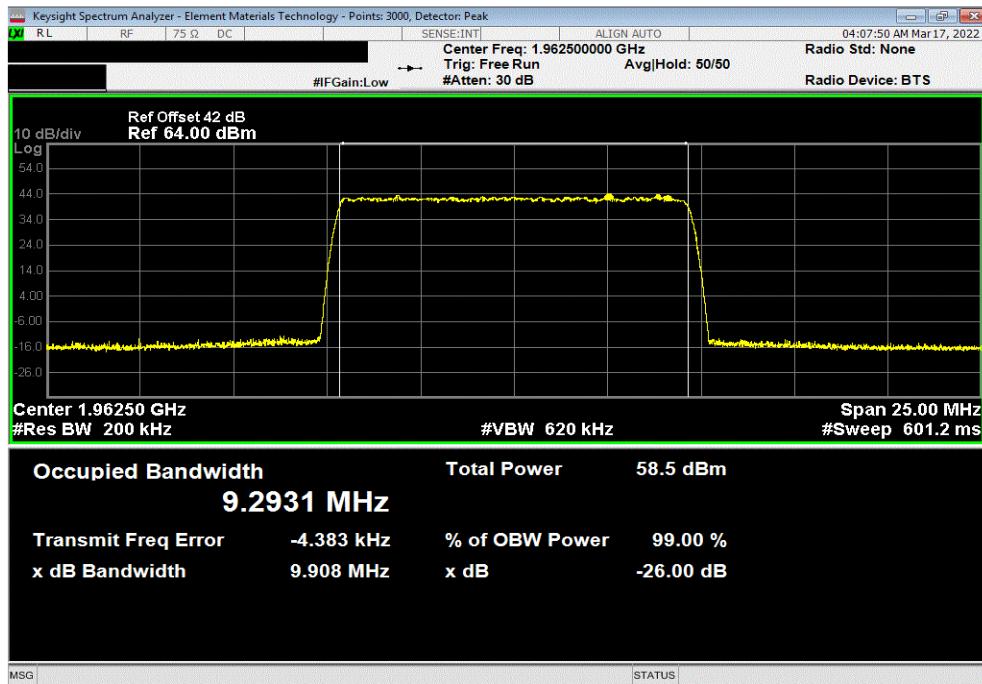


OCCUPIED BANDWIDTH

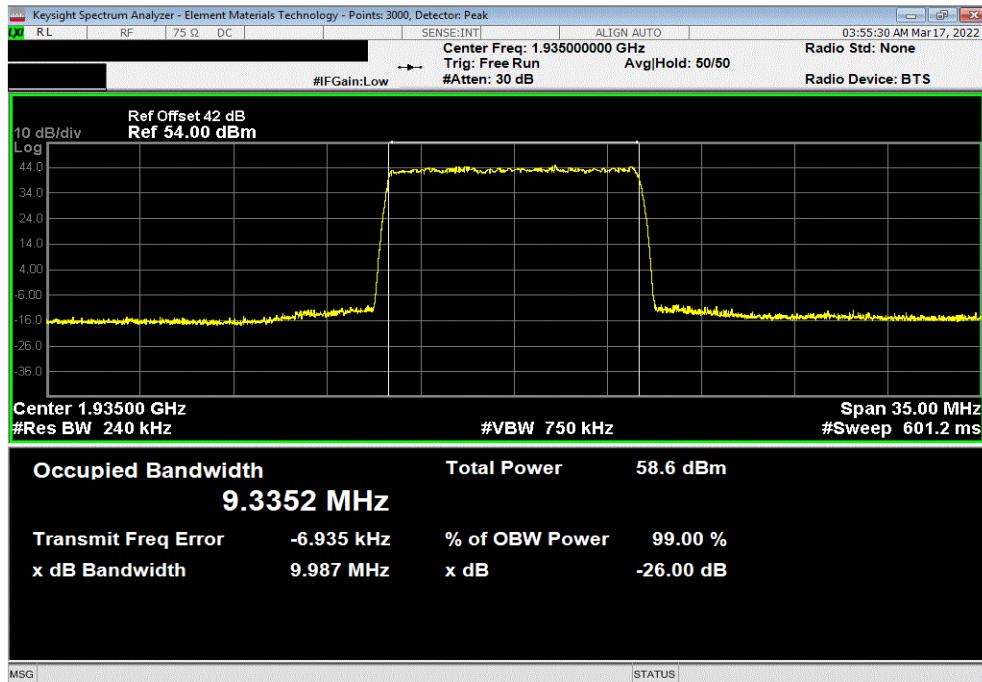


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	9.335	9.987	Within Band	Pass	

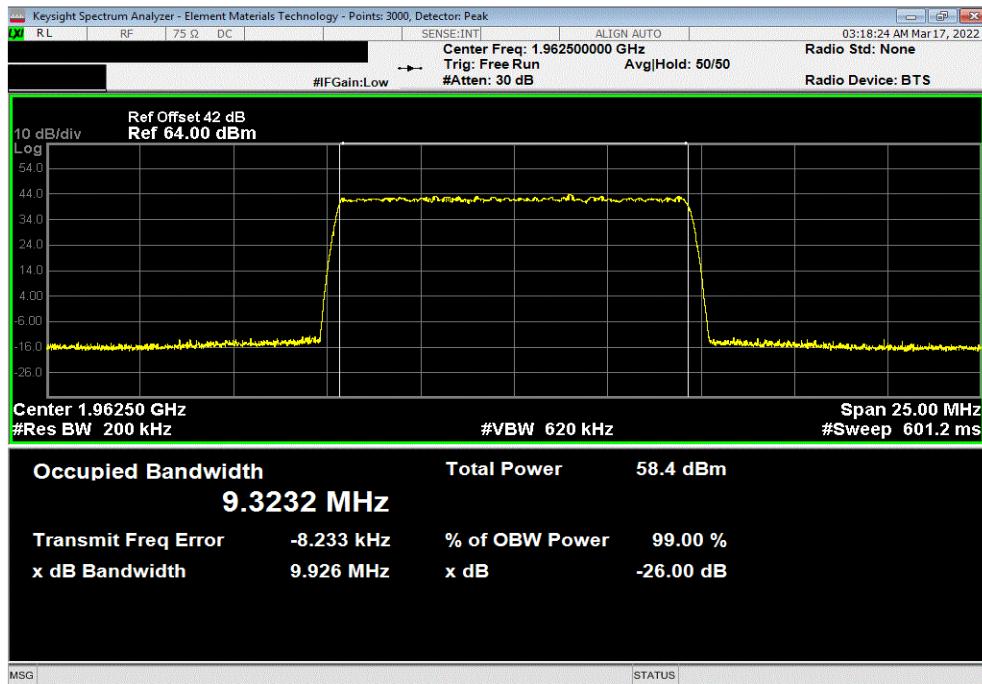


OCCUPIED BANDWIDTH

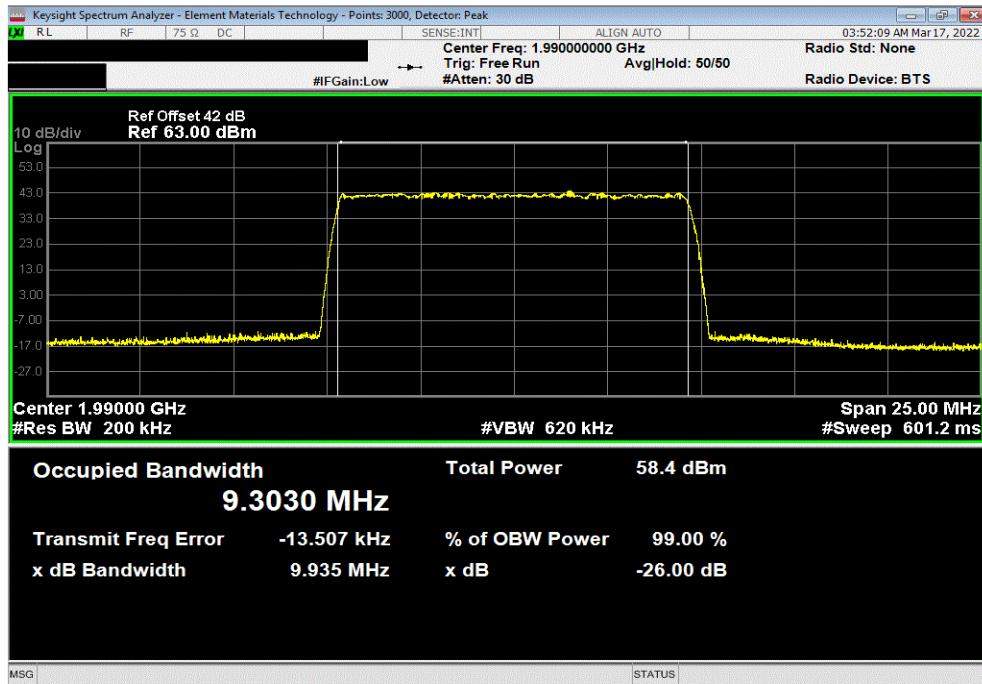


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	9.303	9.935	Within Band	Pass	

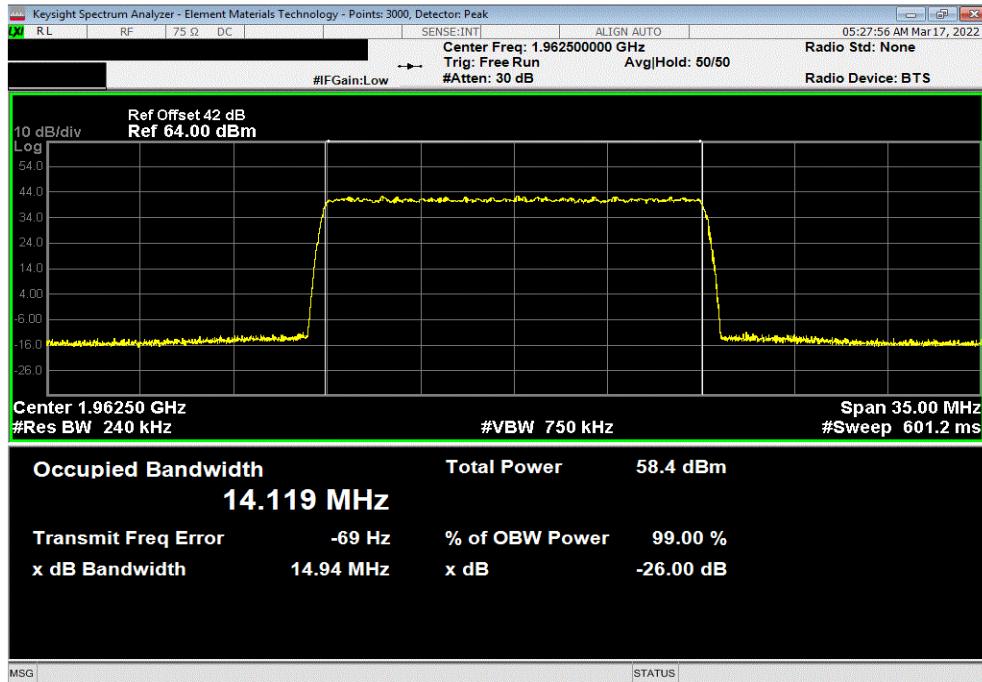


OCCUPIED BANDWIDTH

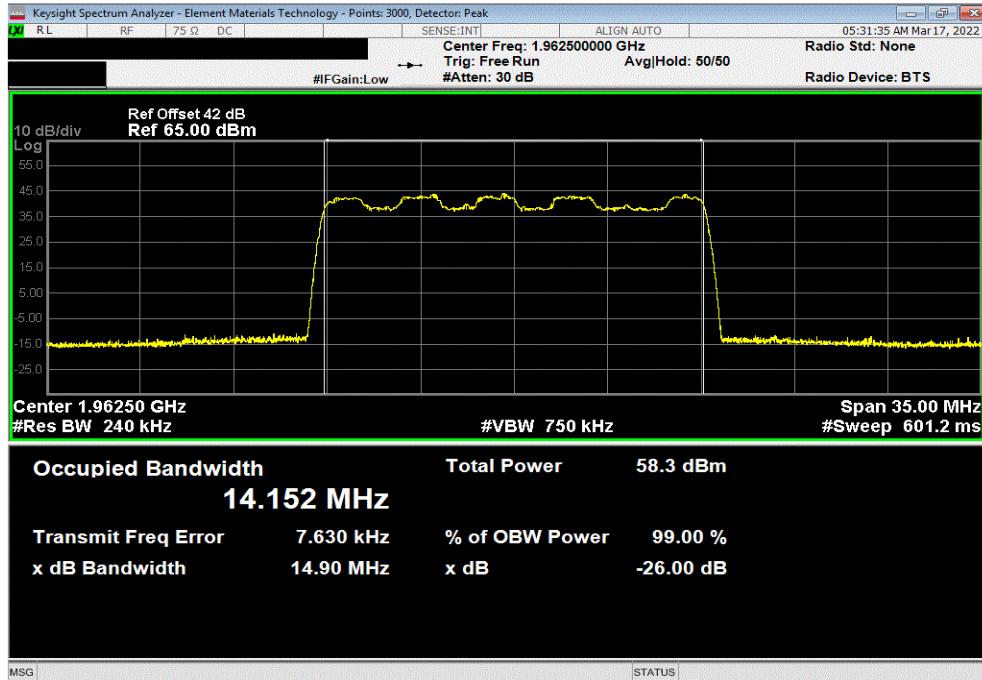


TbTx 2021.12.14.1 XMit 2022.02.07.0

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

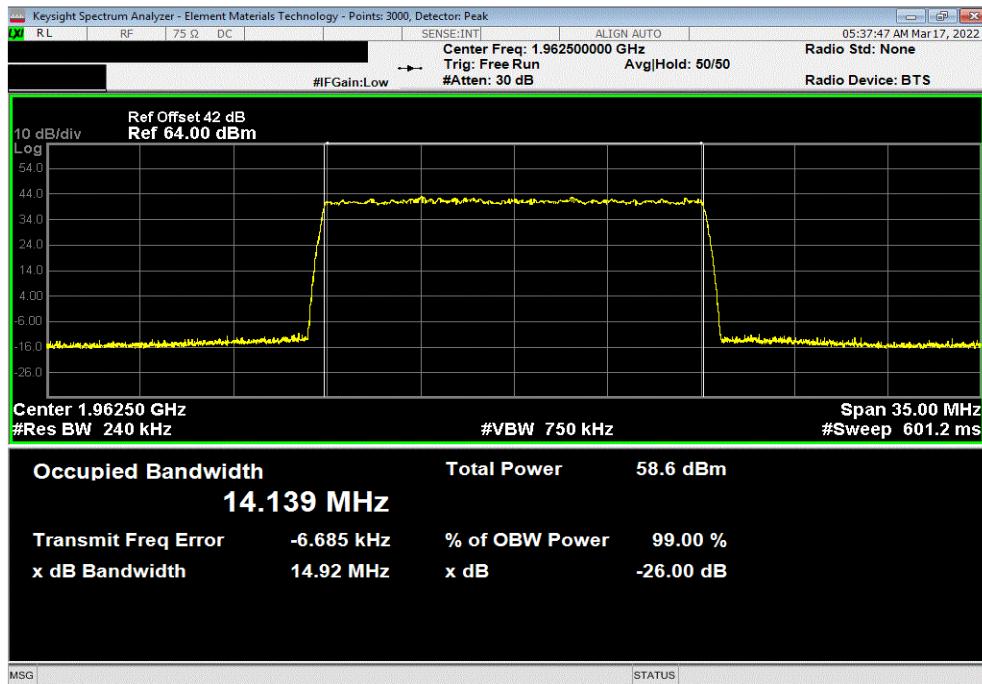


OCCUPIED BANDWIDTH

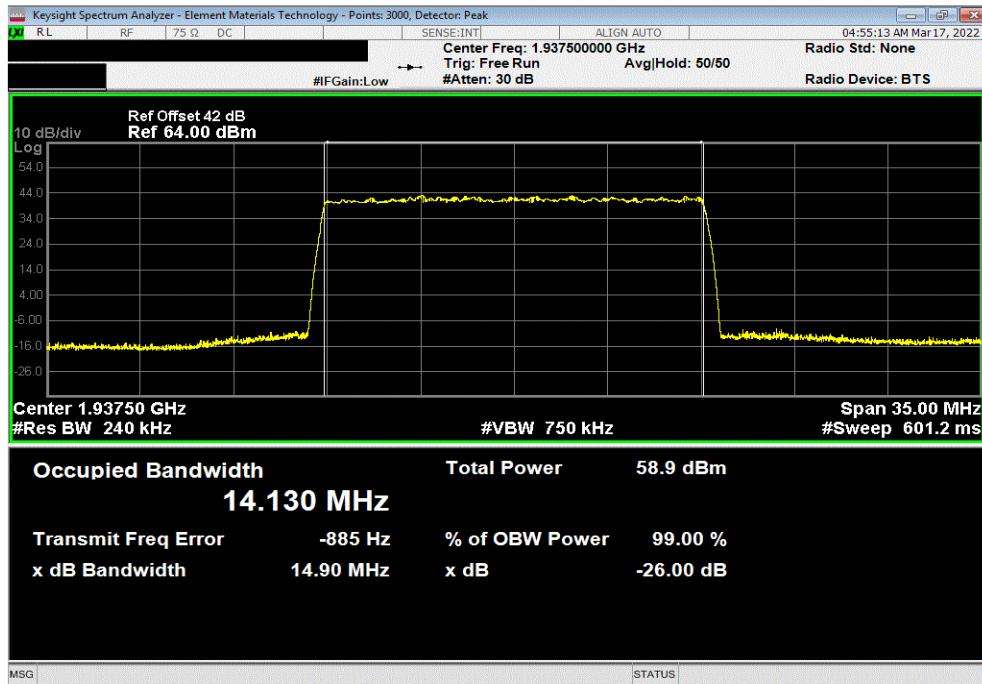


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	14.13	14.902	Within Band	Pass	

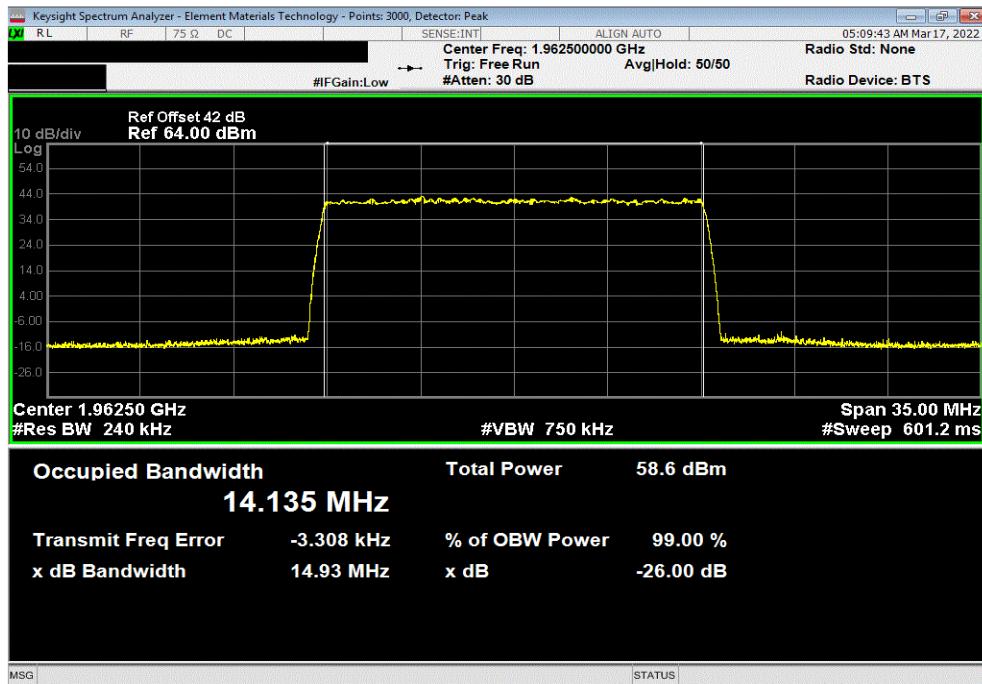


OCCUPIED BANDWIDTH

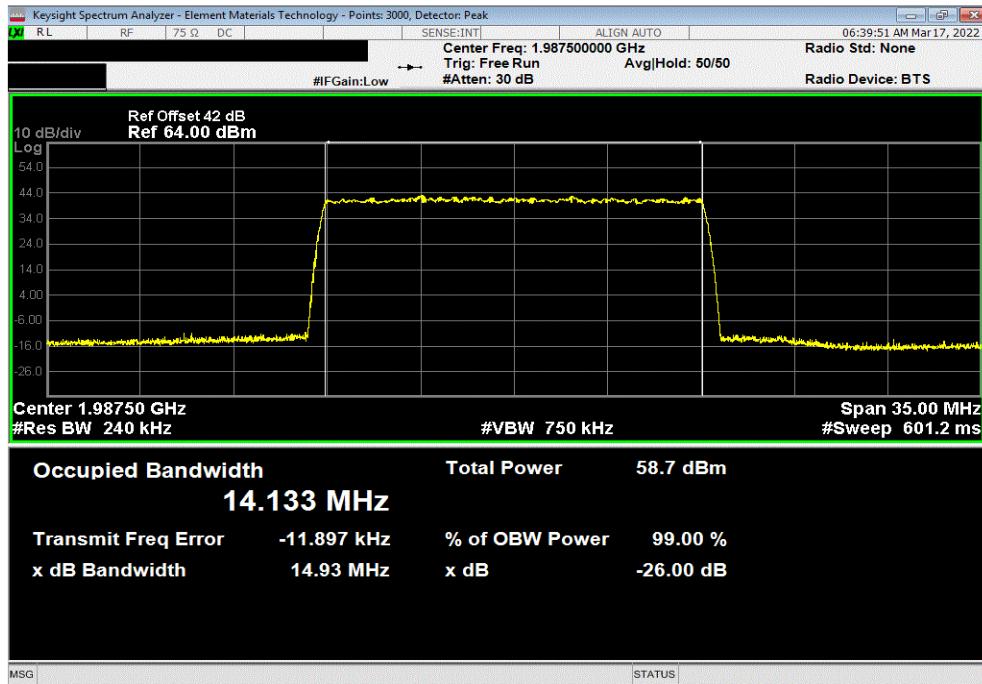


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	14.133	14.929	Within Band	Pass	

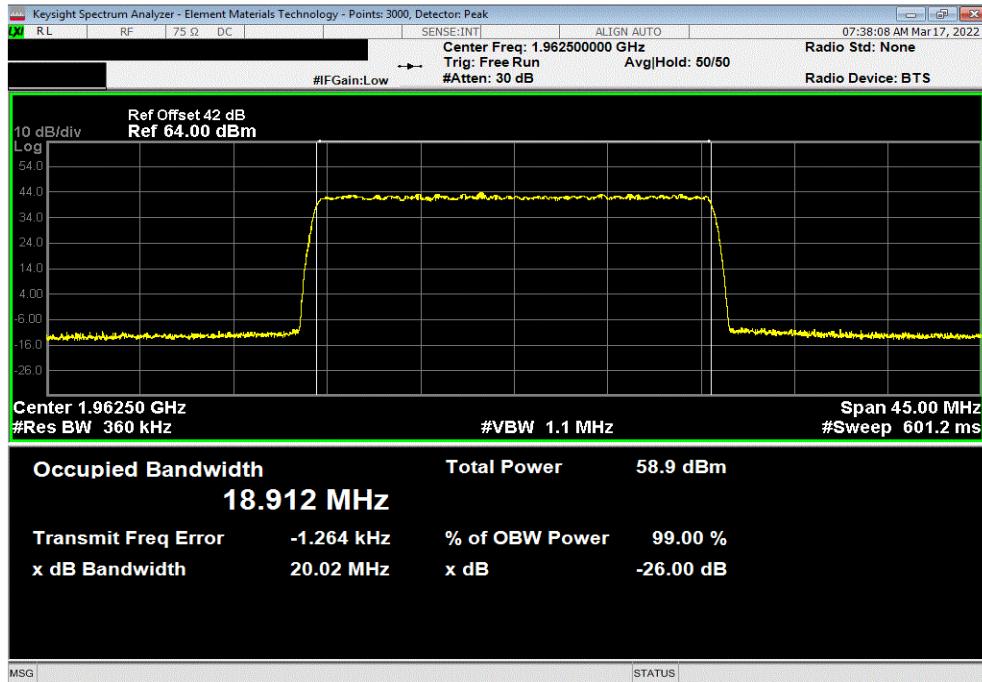


OCCUPIED BANDWIDTH

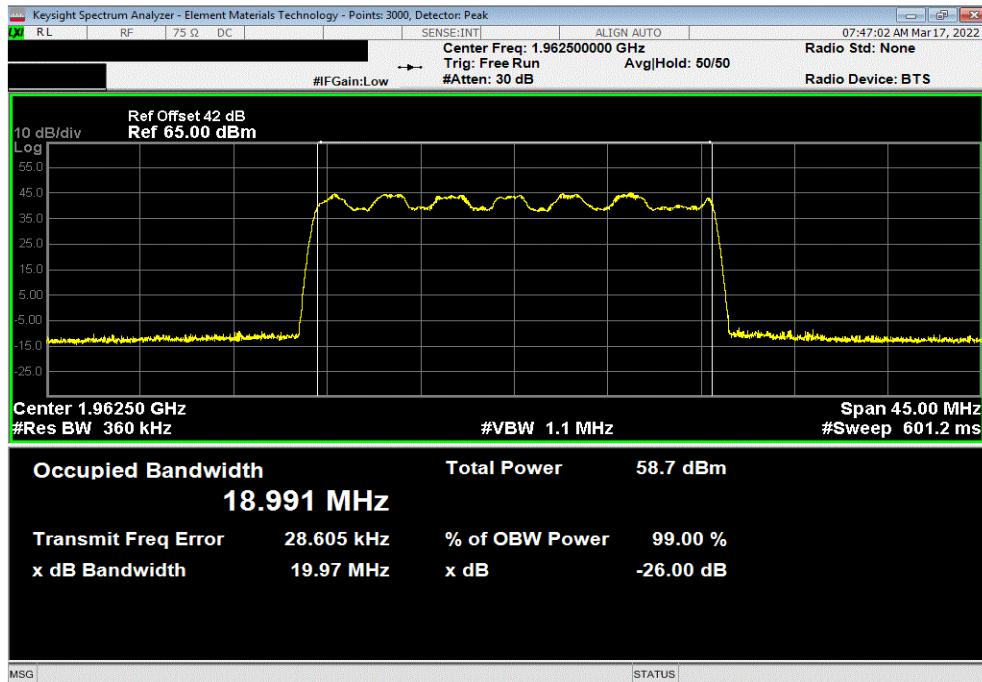


TbTx 2021.12.14.1 XMit 2022.02.07.0

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

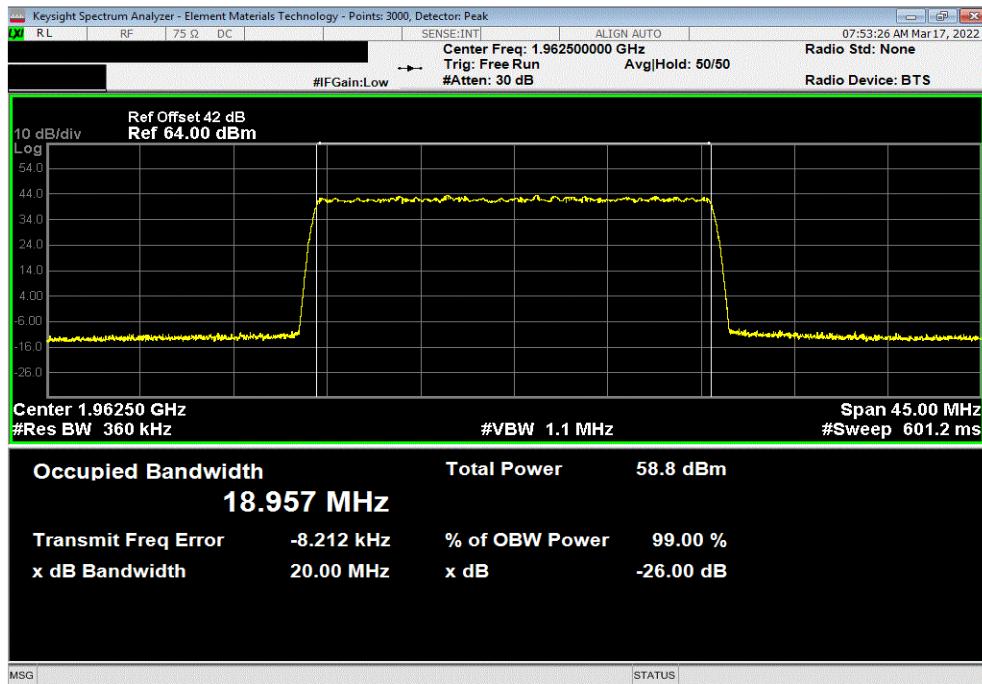


OCCUPIED BANDWIDTH

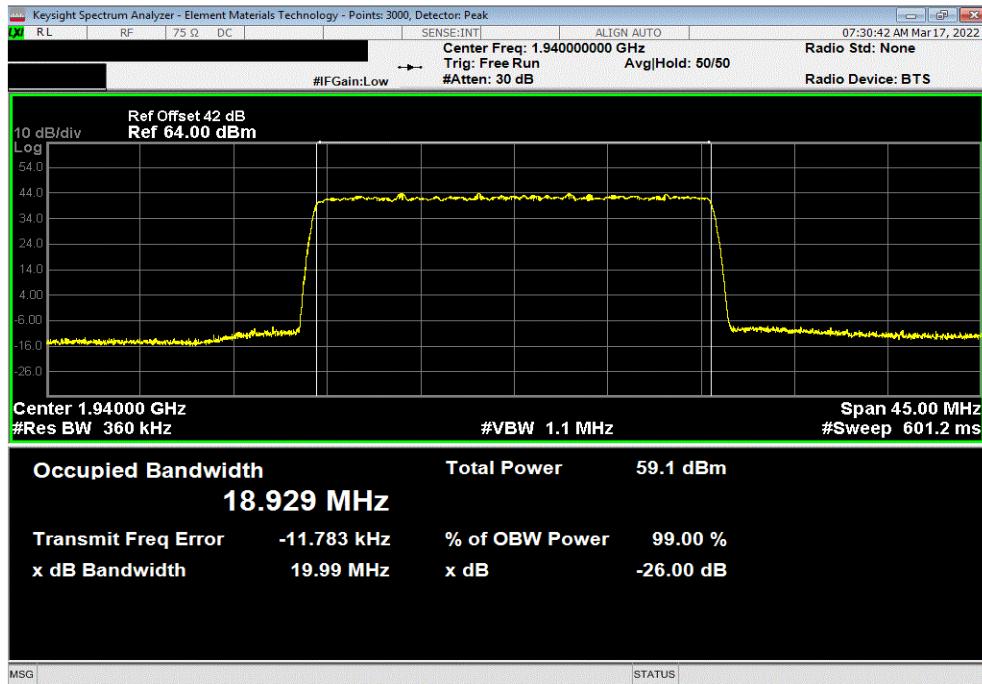


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	18.929	19.995	Within Band	Pass	

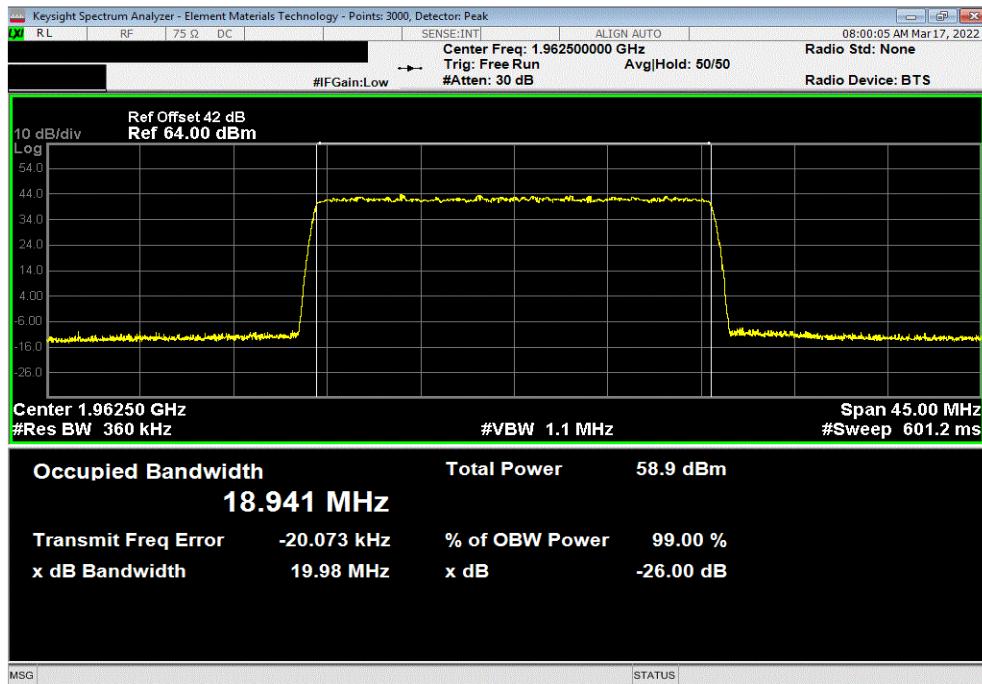


OCCUPIED BANDWIDTH

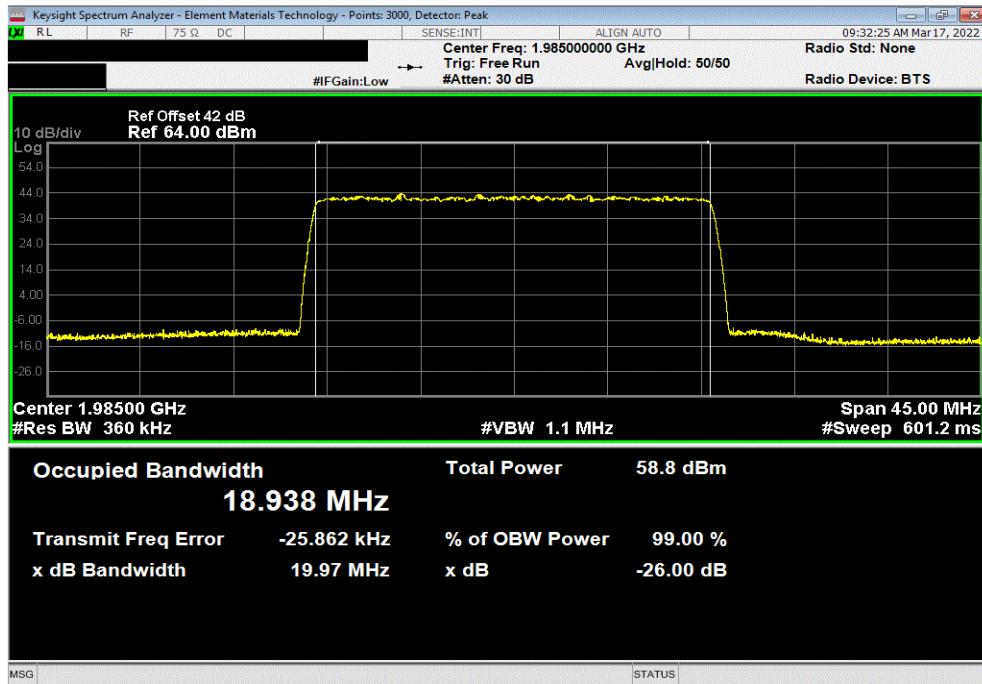


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	18.938	19.965	Within Band	Pass	

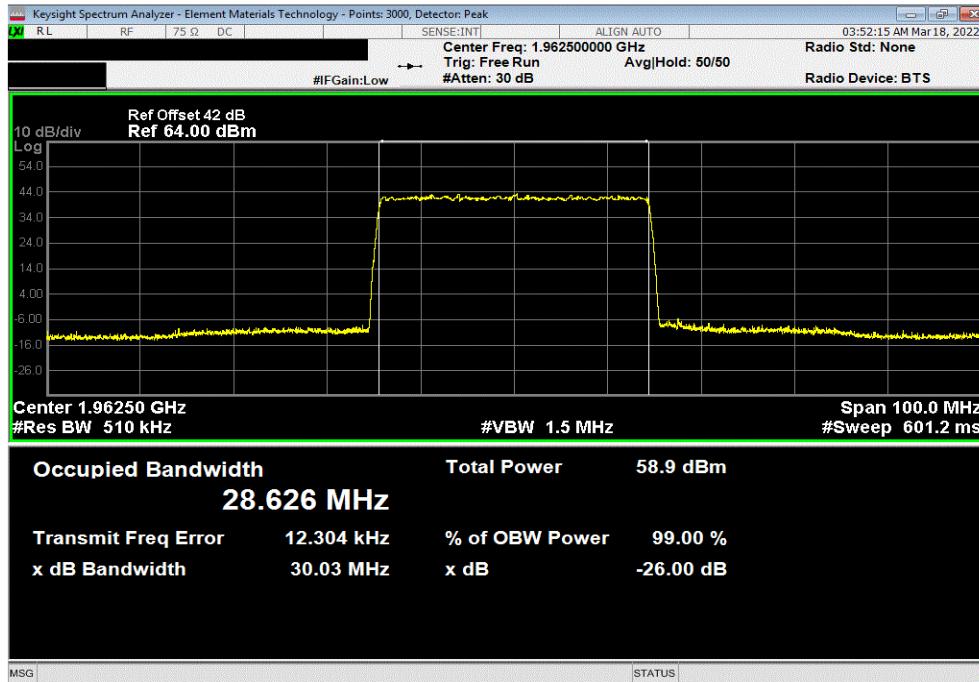


OCCUPIED BANDWIDTH

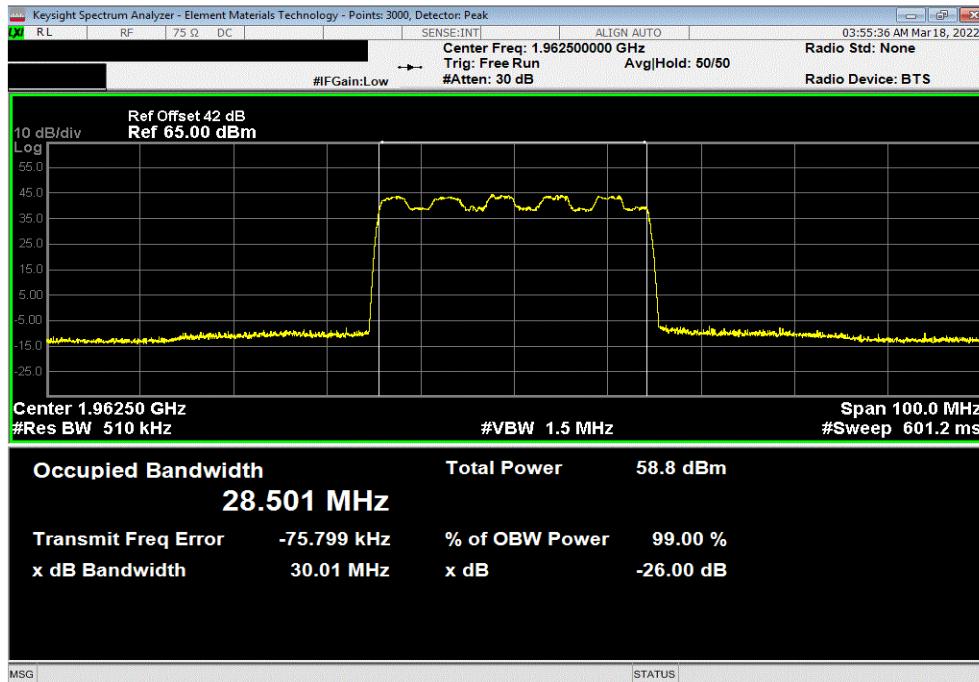


TbTx 2021.12.14.1 XMit 2022.02.07.0

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

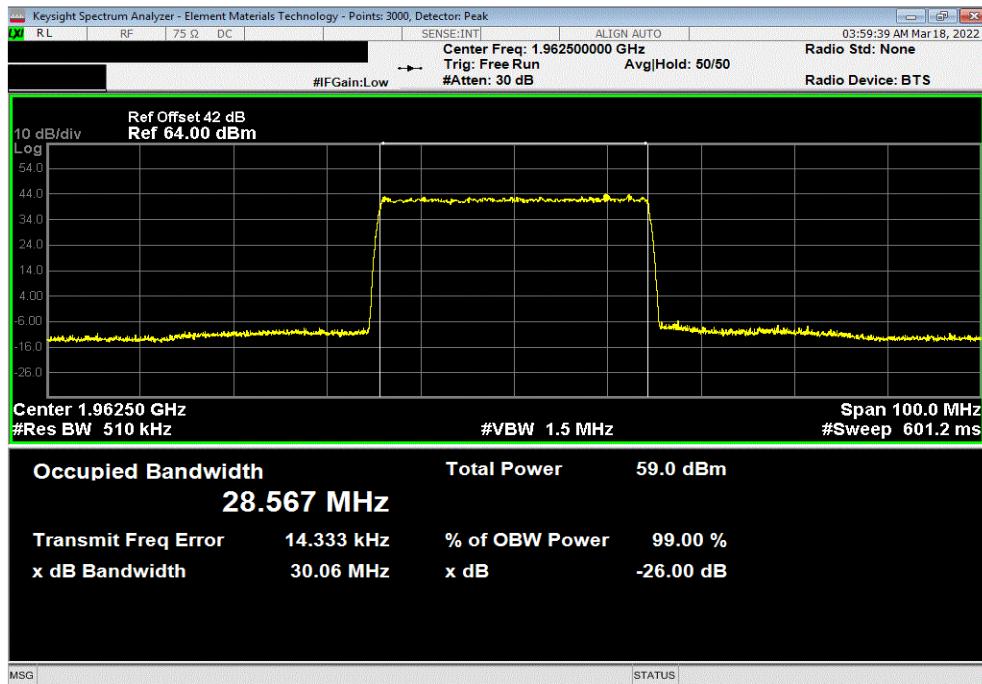


OCCUPIED BANDWIDTH

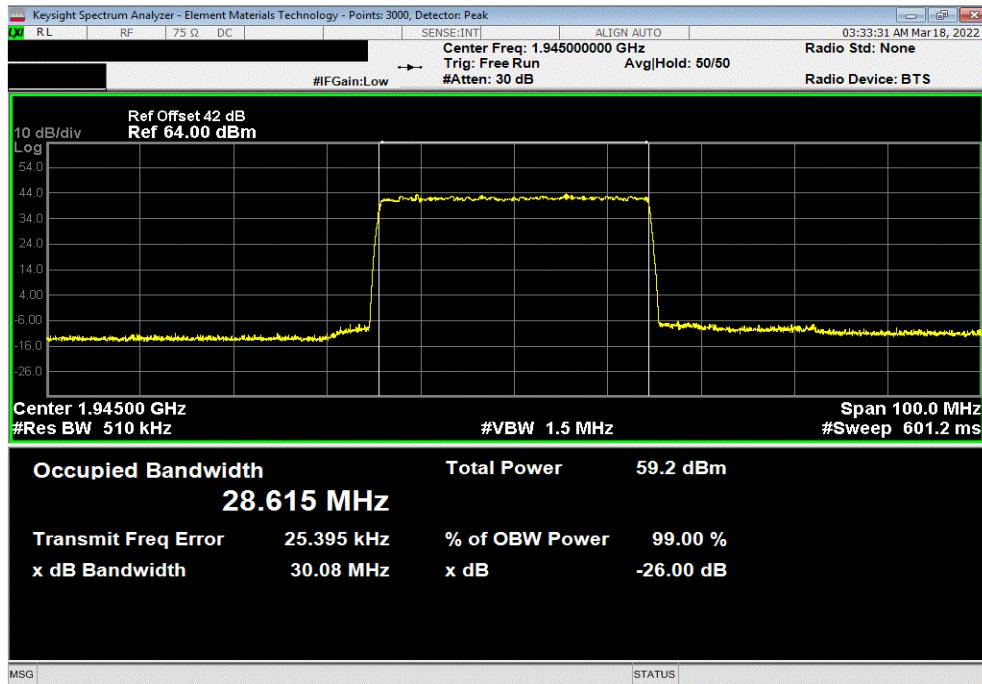


TbTx 2021.12.14.1 XMit 2022.02.07.0

Band n25, 1930 MHz - 1995 MHz, 5G NR, Port 1, 30 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz			
Value 99% (MHz)	Value 26dB (MHz)	Limit	Result
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 99% (MHz)	Value 26dB (MHz)	Limit	Result
28.615	30.081	Within Band	Pass

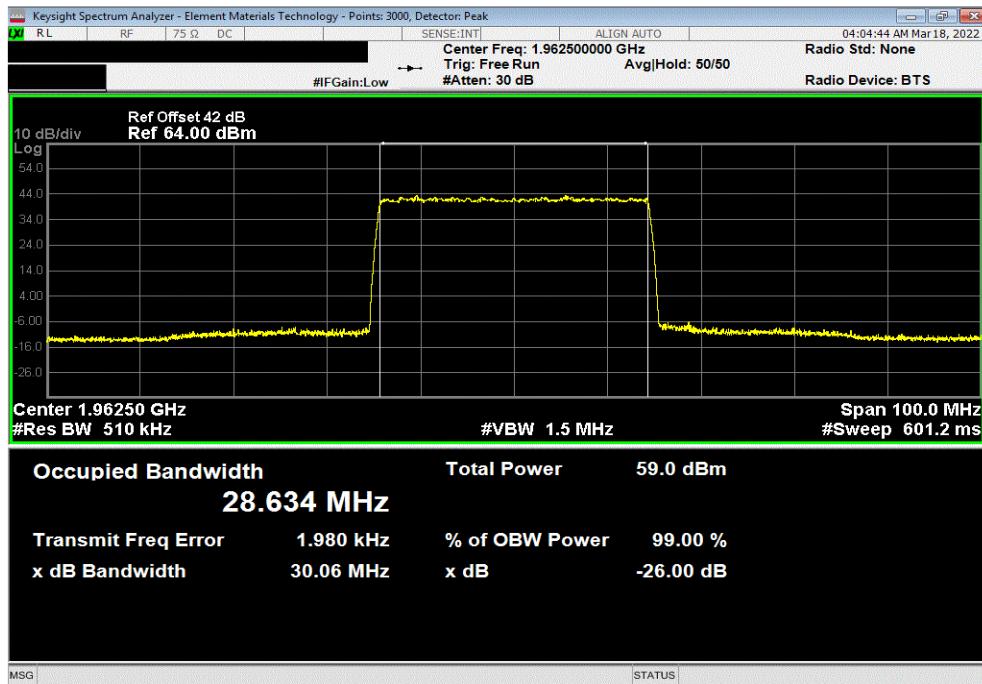


OCCUPIED BANDWIDTH

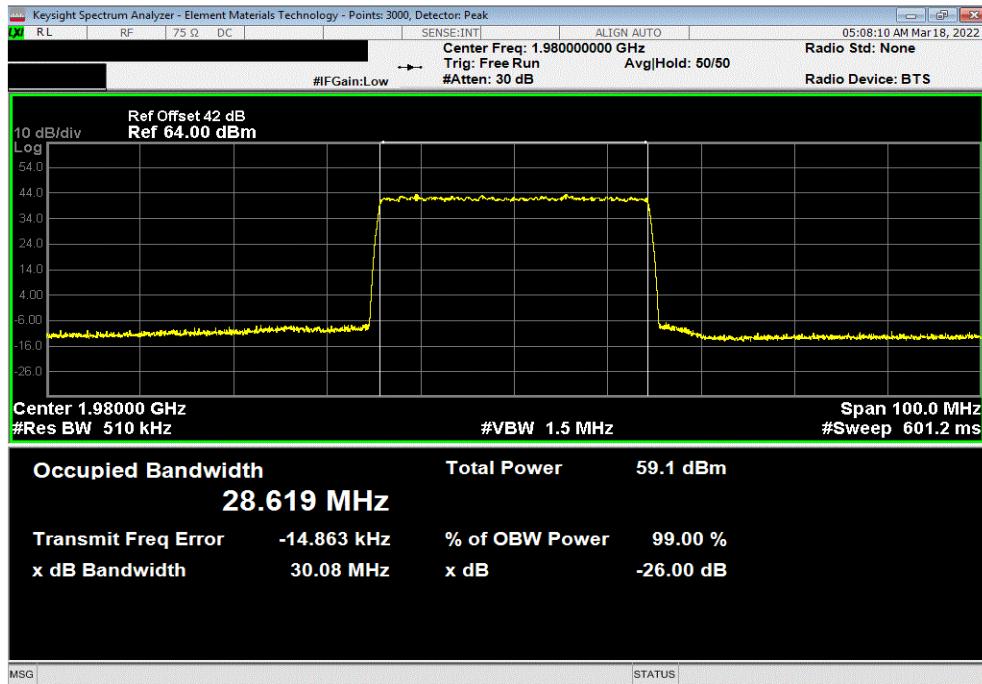


TbTx 2021.12.14.1 XMit 2022.02.07.0

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



TsTx 2022.03.14.0 XMI 2022.02.07.0

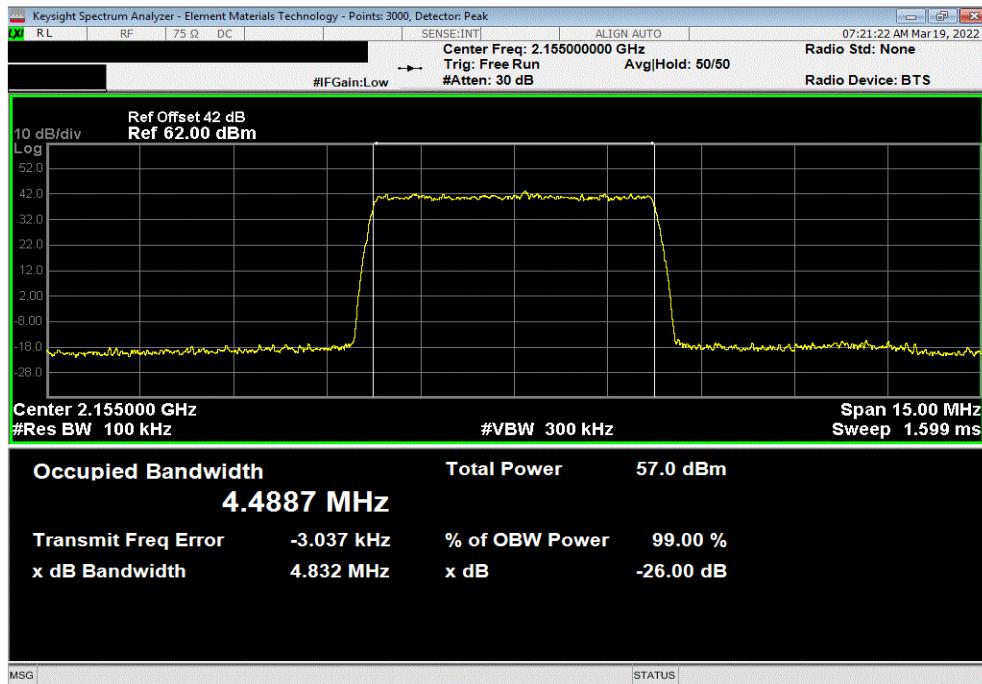
EUT: AHFII Remote Radio Head Serial Number: YK214000035 Customer: Nokia of America Corporation Attendees: Mitchell Hill Project: None Tested by: Brandon Hobbs		Power: 54 VDC	Work Order: NOKI0038 Date: 19-Mar-22 Temperature: 20.7 °C Humidity: 26.9% RH Barometric Pres.: 1021 mbar		
TEST SPECIFICATIONS			Job Site: TX06 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 99% (MHz)	Value 26dB (MHz)	Limit	Result
Band n66, 2110 MHz - 2200 MHz, 5G NR Port 1					
5 MHz Bandwidth					
QPSK Modulation					
Mid Channel, 2155 MHz				Within Band	Pass
16-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
64-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
256-QAM Modulation				Within Band	Pass
Low Channel, 2112.5 MHz				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
High Channel, 2197.5 MHz				Within Band	Pass
10 MHz Bandwidth					
QPSK Modulation					
Mid Channel, 2155 MHz				Within Band	Pass
16-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
64-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
256-QAM Modulation				Within Band	Pass
Low Channel, 2115 MHz				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
High Channel, 2195 MHz				Within Band	Pass
15 MHz Bandwidth					
QPSK Modulation					
Mid Channel, 2155 MHz				Within Band	Pass
16-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
64-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
256-QAM Modulation				Within Band	Pass
Low Channel, 2117.5 MHz				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
High Channel, 2192.5 MHz				Within Band	Pass
20 MHz Bandwidth					
QPSK Modulation					
Mid Channel, 2155 MHz				Within Band	Pass
16-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
64-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
256-QAM Modulation				Within Band	Pass
Low Channel, 2120 MHz				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
High Channel, 2190 MHz				Within Band	Pass
30 MHz Bandwidth					
QPSK Modulation					
Mid Channel, 2155 MHz				Within Band	Pass
16-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
64-QAM Modulation				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
256-QAM Modulation				Within Band	Pass
Low Channel, 2125 MHz				Within Band	Pass
Mid Channel, 2155 MHz				Within Band	Pass
High Channel, 2185 MHz				Within Band	Pass

OCCUPIED BANDWIDTH

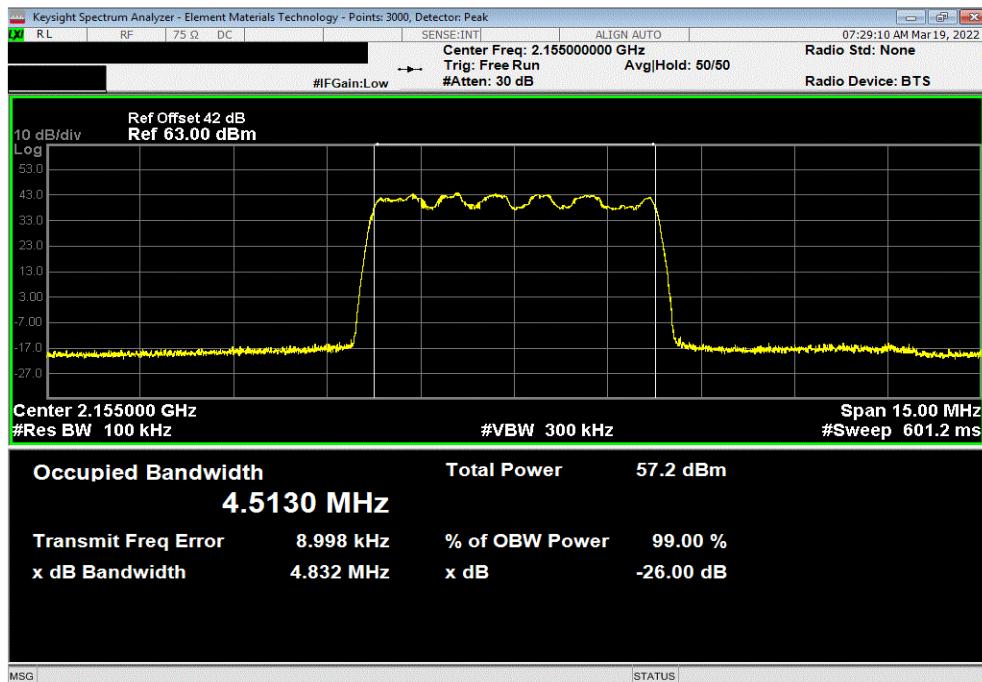


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

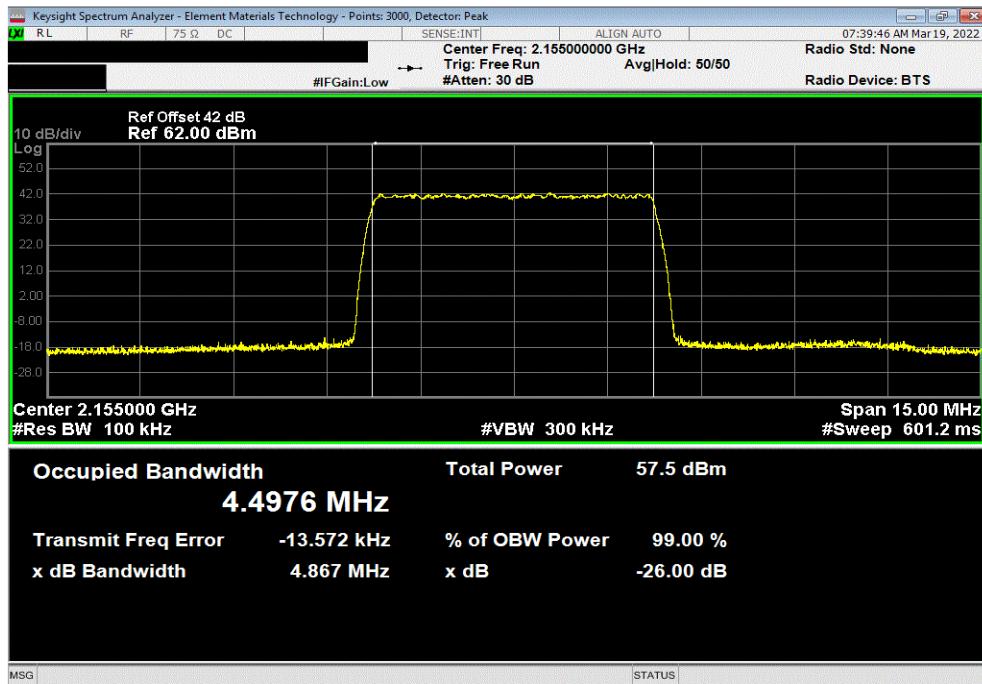


OCCUPIED BANDWIDTH

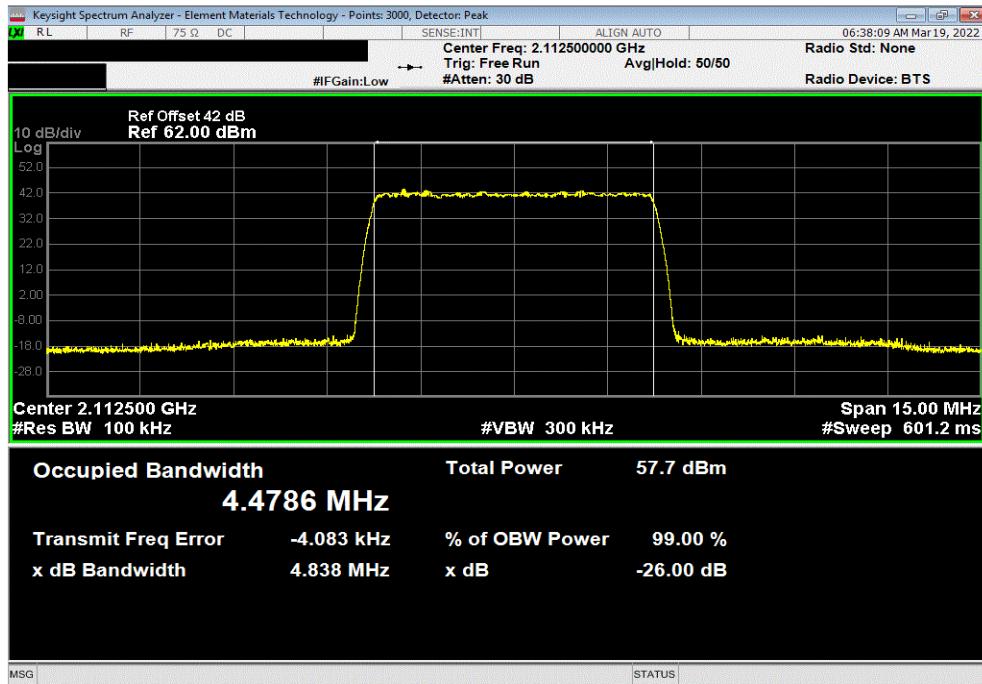


TbTx 2022.03.14.0 XMit 2022.02.07.0

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



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

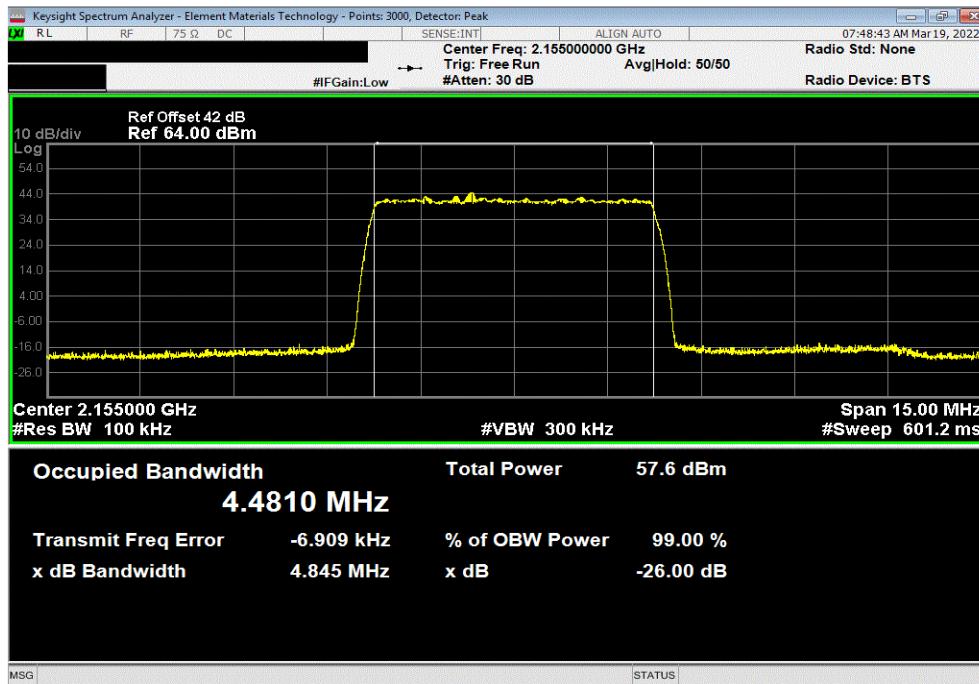


OCCUPIED BANDWIDTH

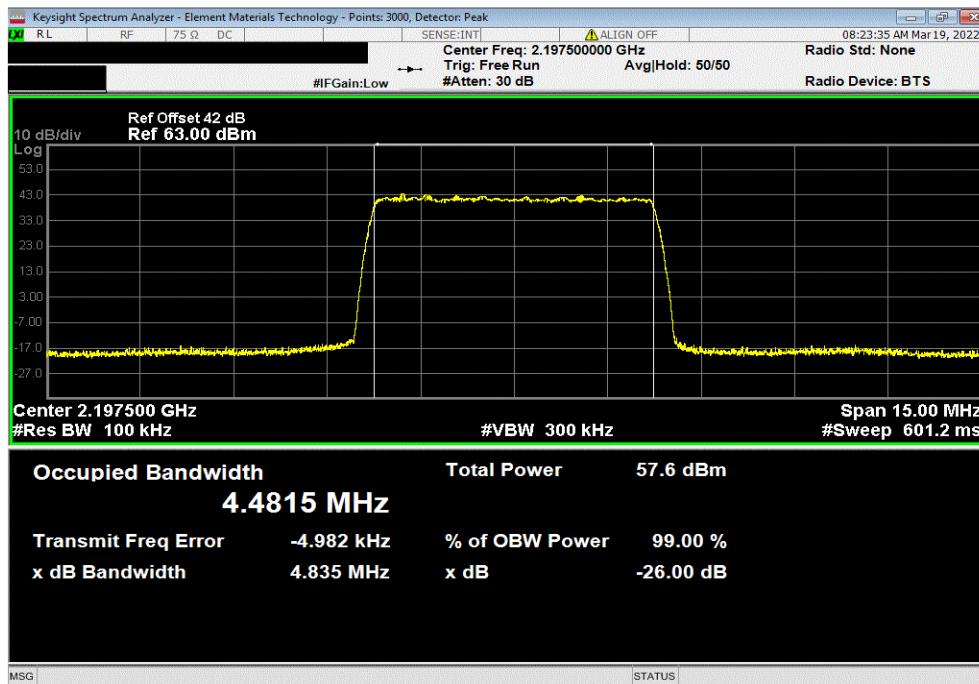


TbTx 2022.03.14.0 XMit 2022.02.07.0

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



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

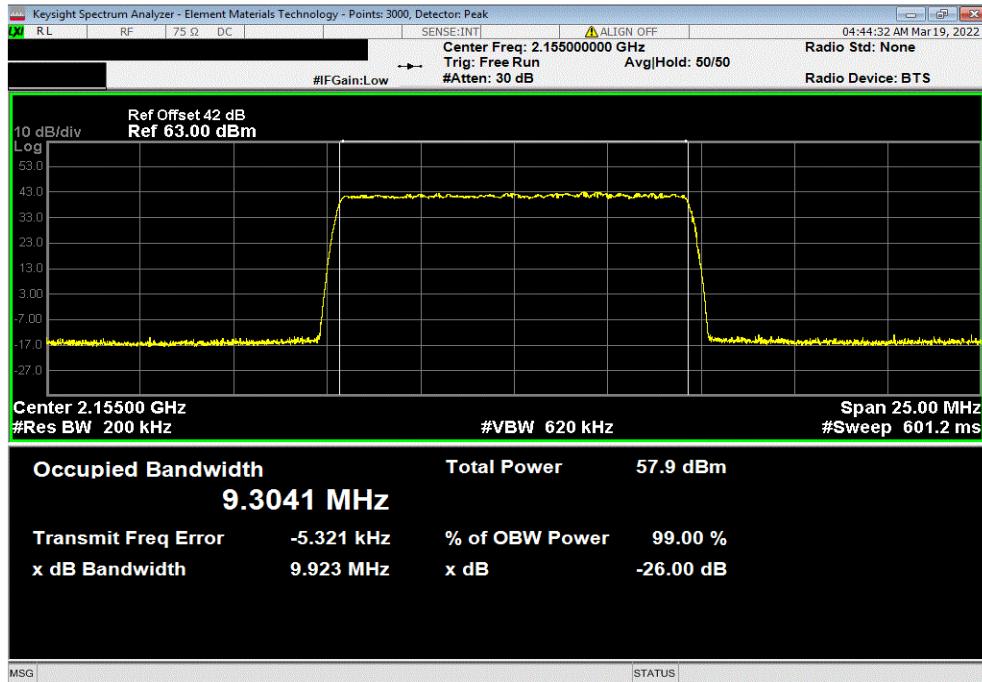


OCCUPIED BANDWIDTH

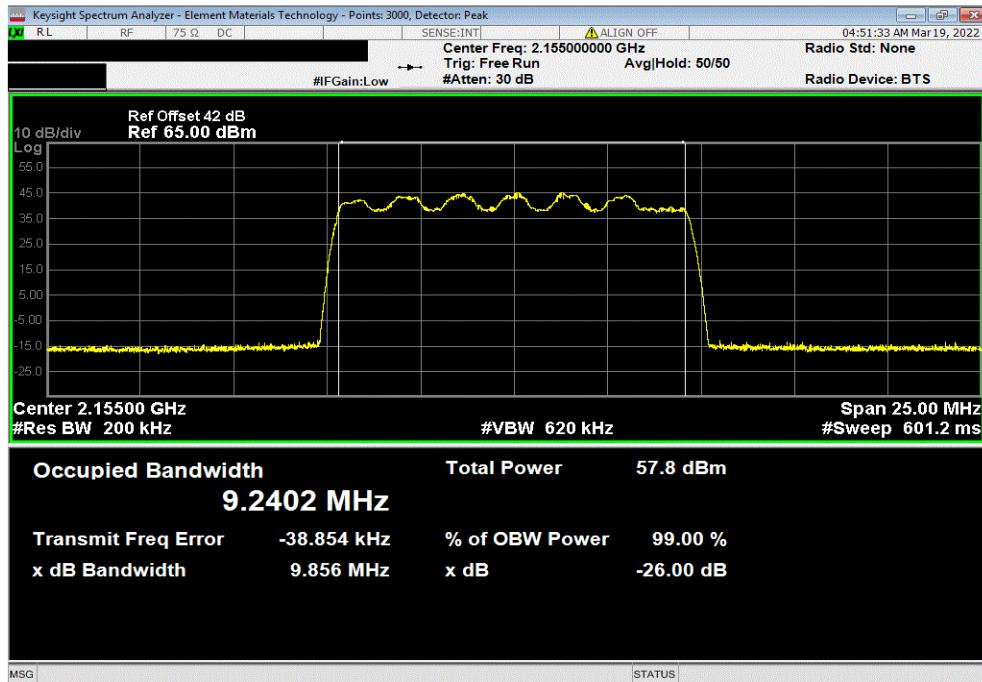


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

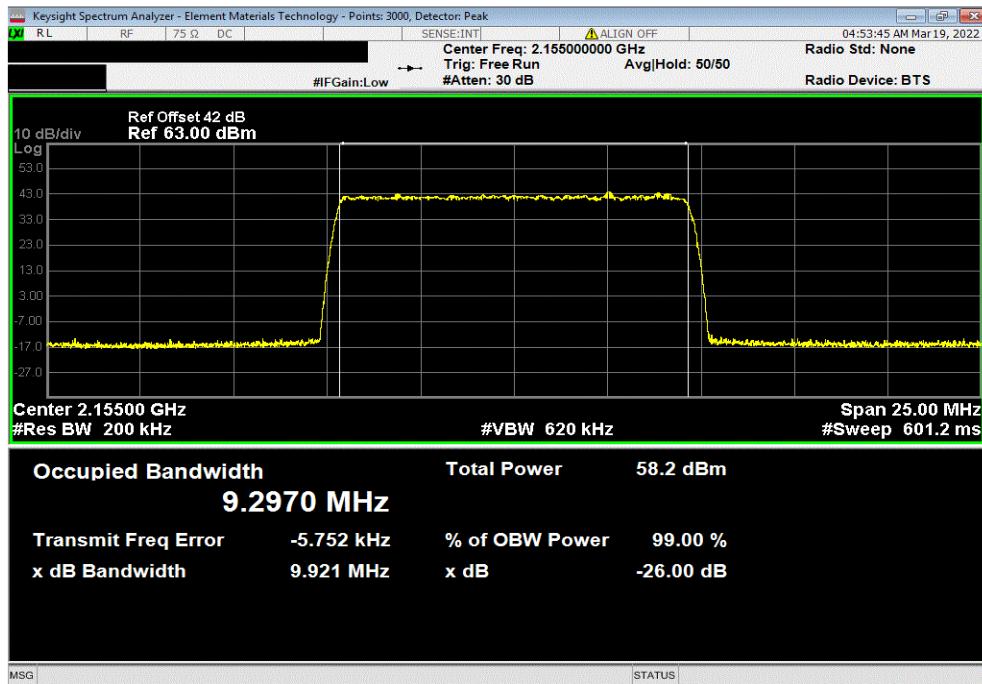


OCCUPIED BANDWIDTH

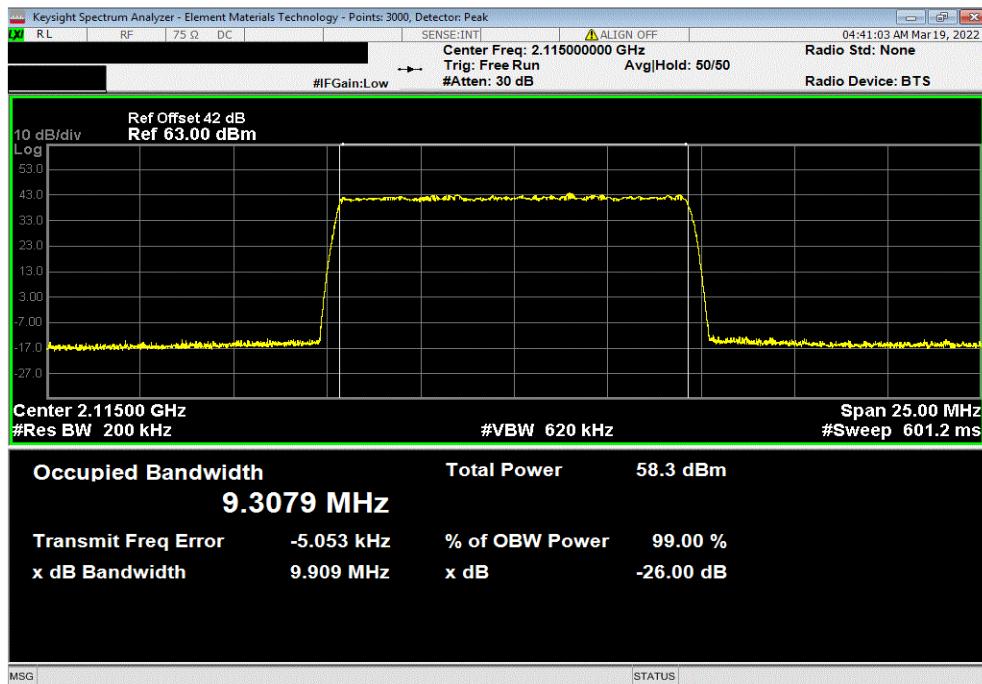


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz			
Value 99% (MHz)	Value 26dB (MHz)	Limit	Result
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 99% (MHz)	Value 26dB (MHz)	Limit	Result
9.308	9.909	Within Band	Pass

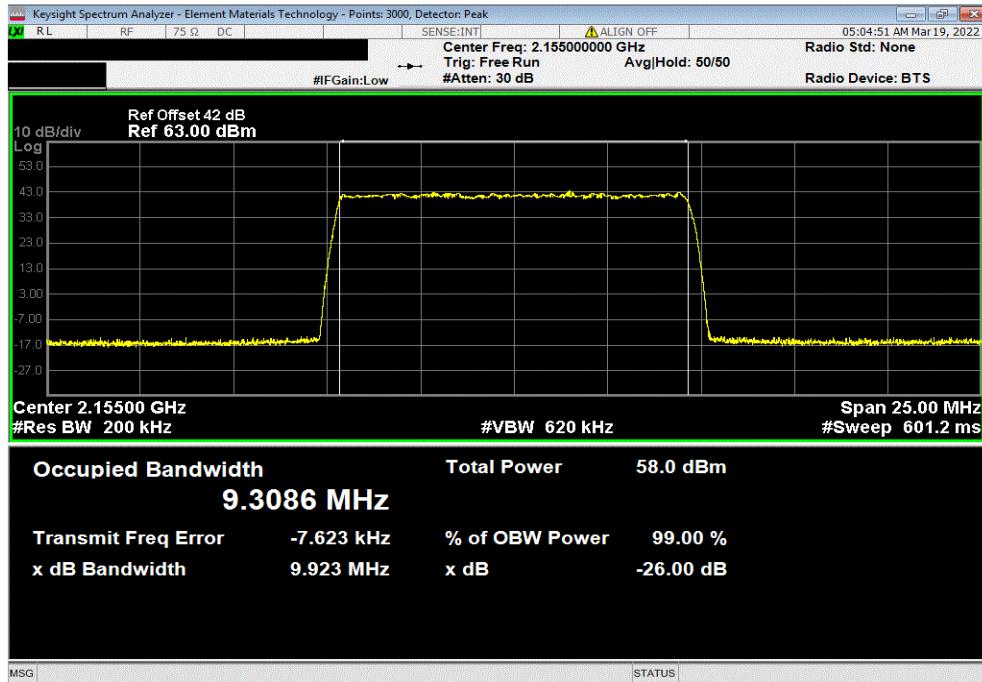


OCCUPIED BANDWIDTH

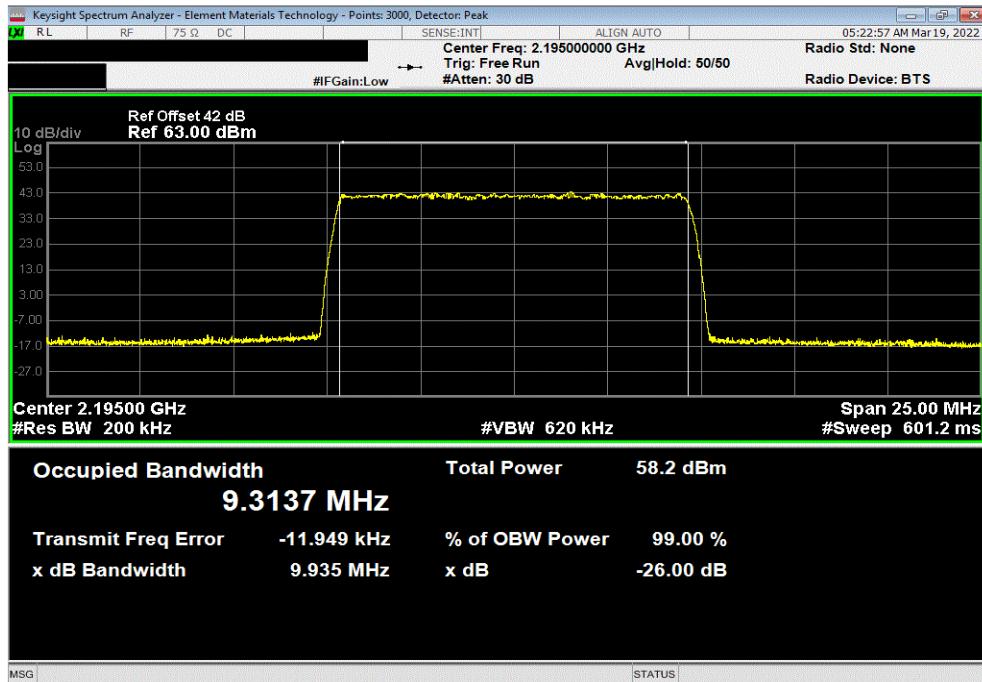


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	9.314	9.935	Within Band	Pass	

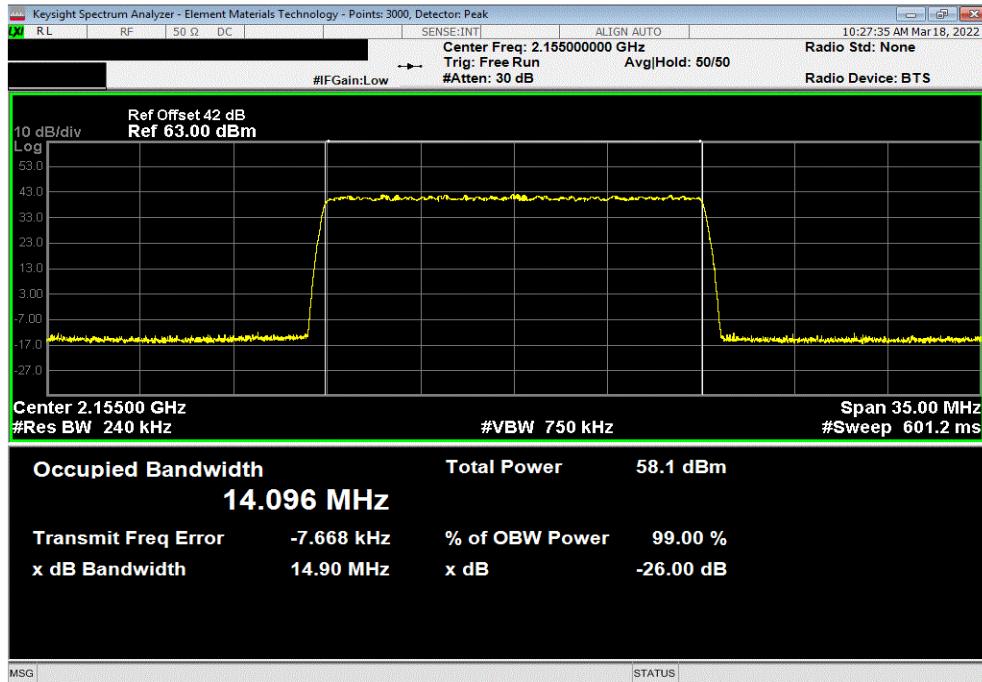


OCCUPIED BANDWIDTH

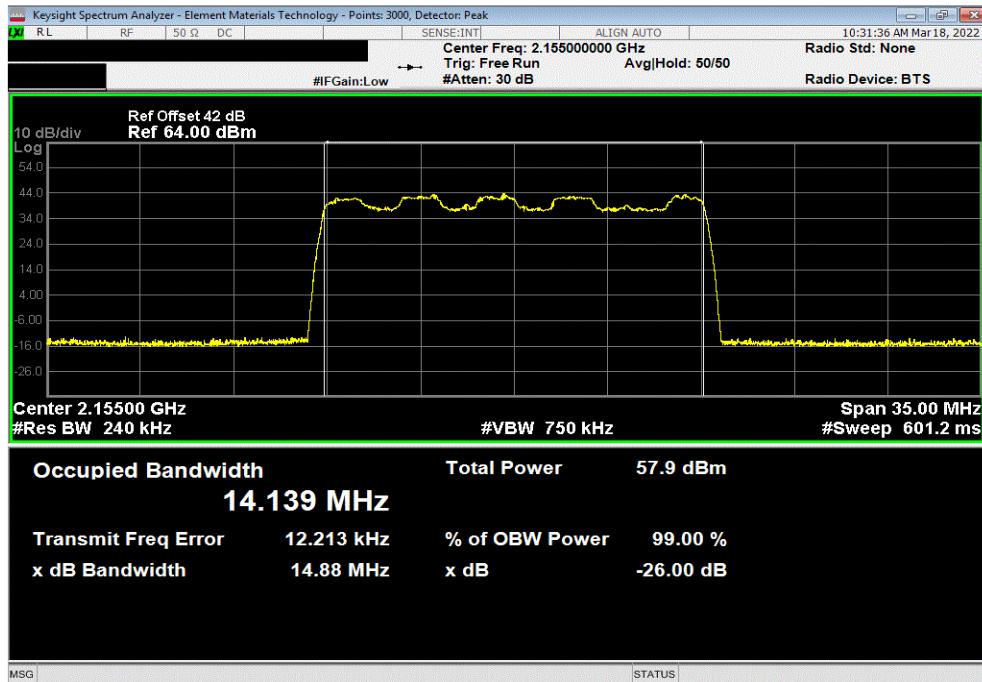


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

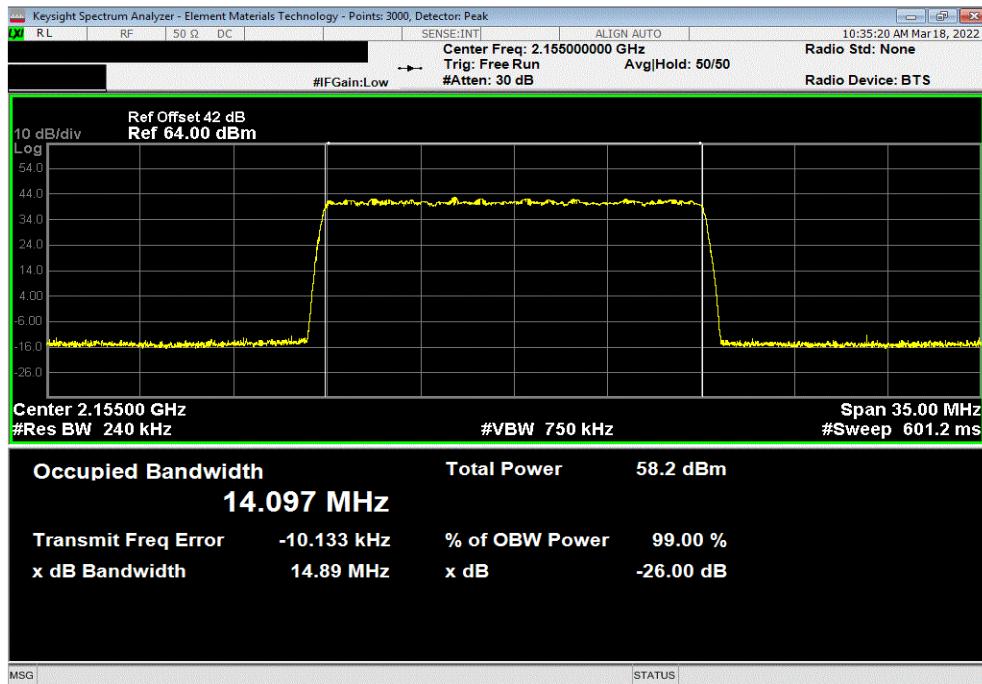


OCCUPIED BANDWIDTH

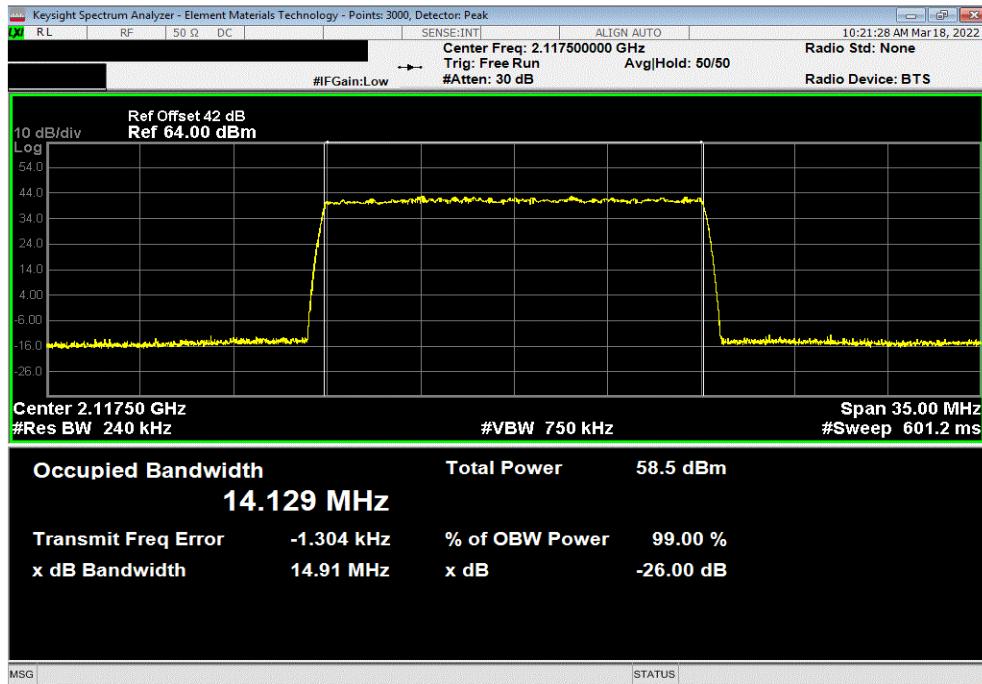


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	14.129	14.915	Within Band	Pass	

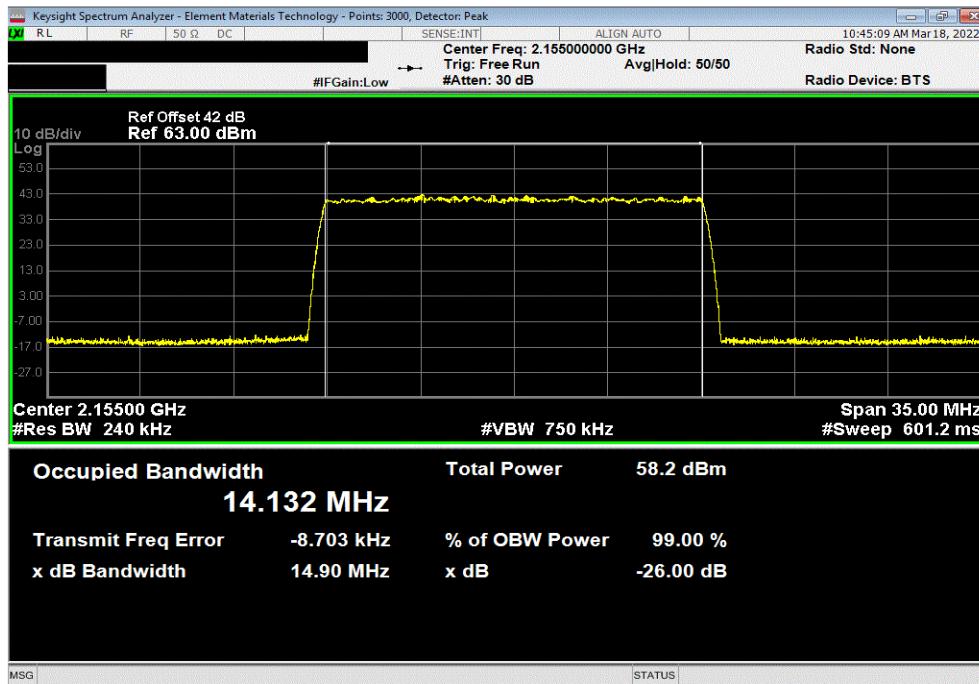


OCCUPIED BANDWIDTH

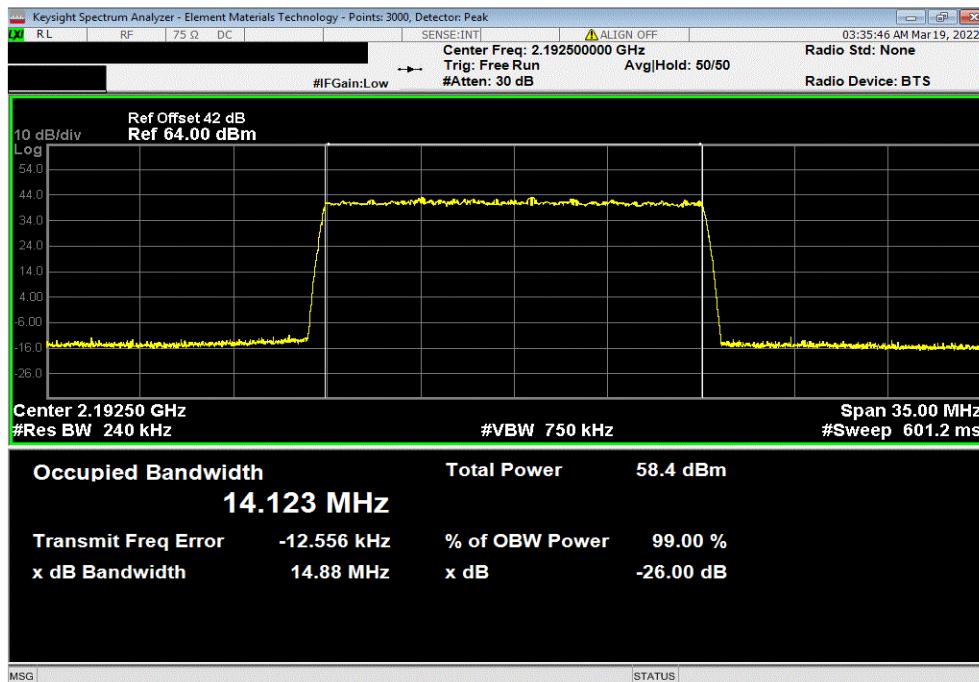


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	14.123	14.88	Within Band	Pass	

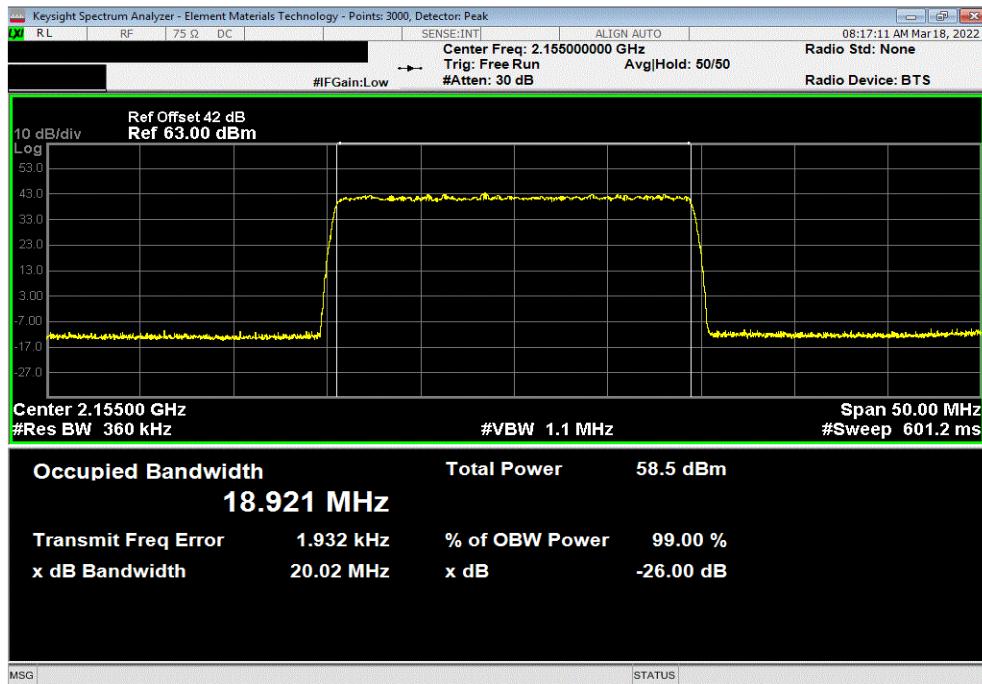


OCCUPIED BANDWIDTH

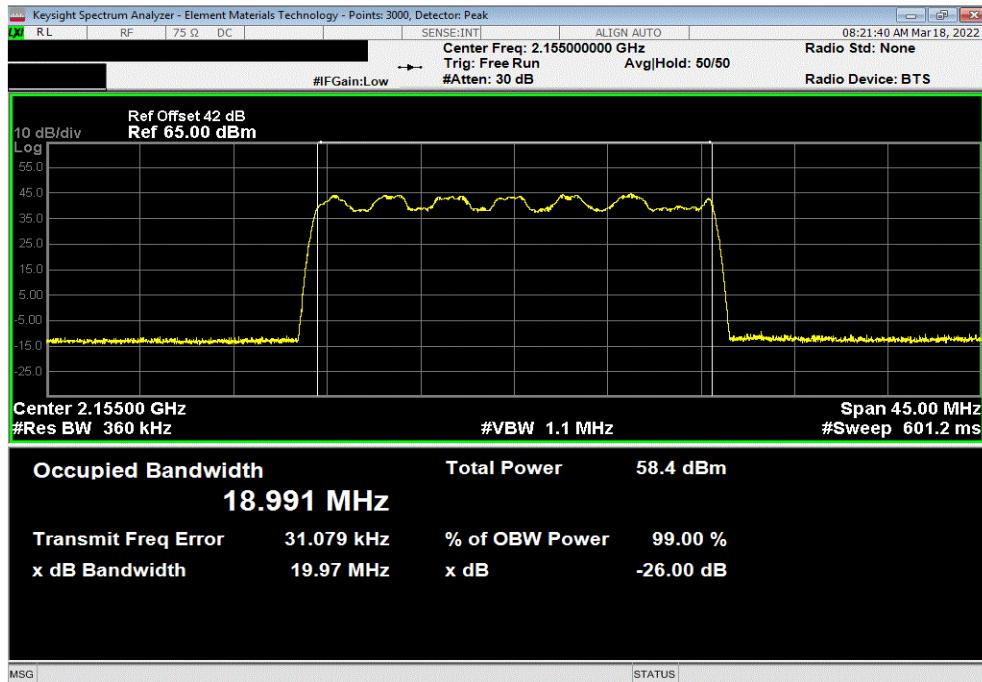


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

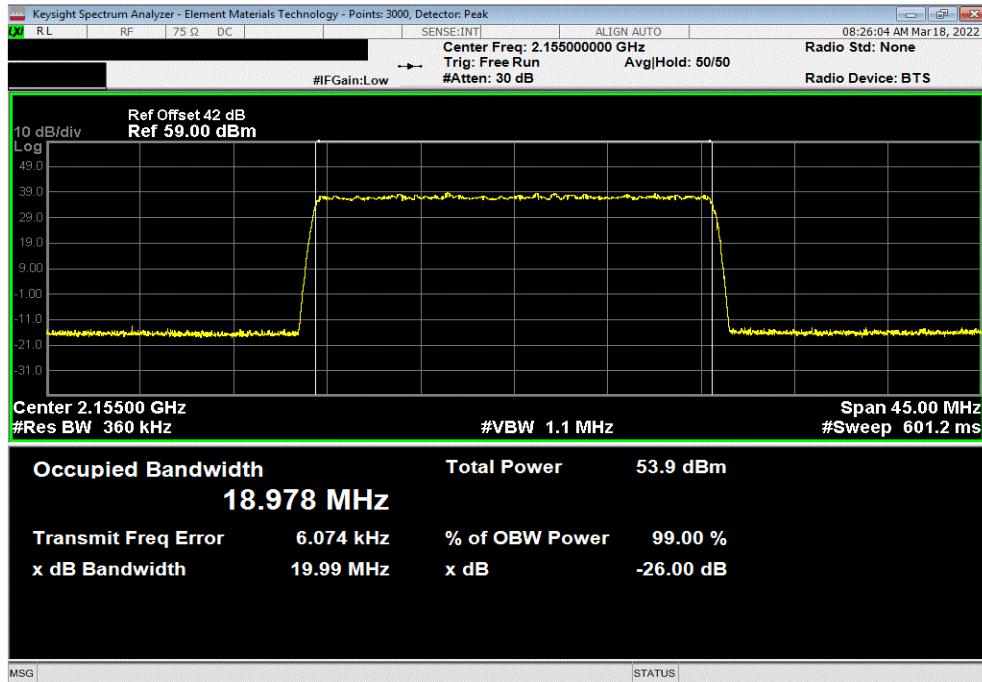


OCCUPIED BANDWIDTH

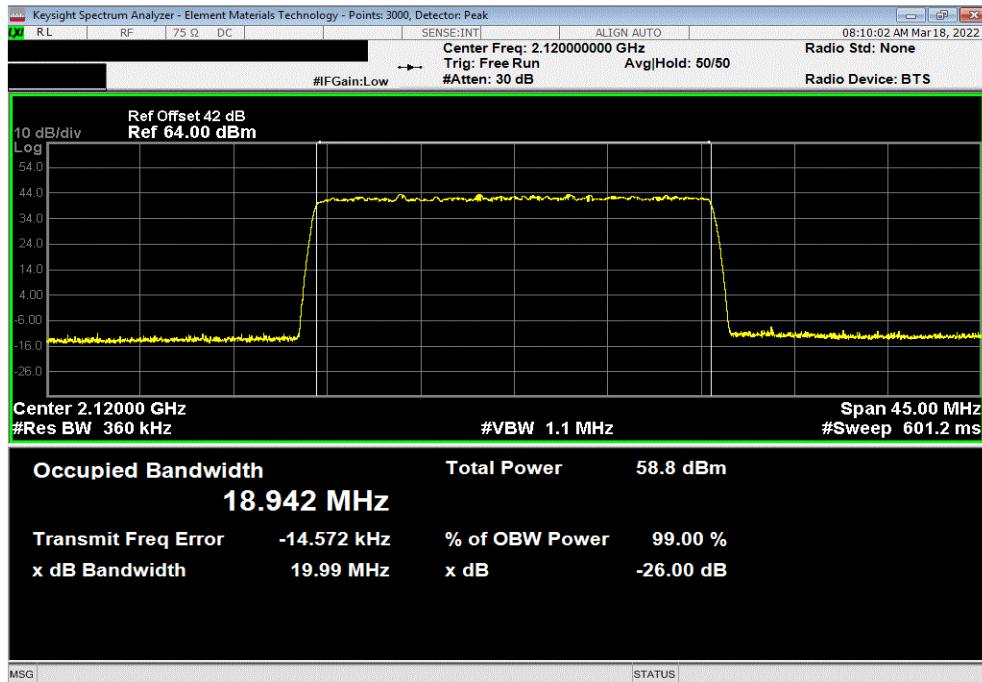


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	18.942	19.993	Within Band	Pass	

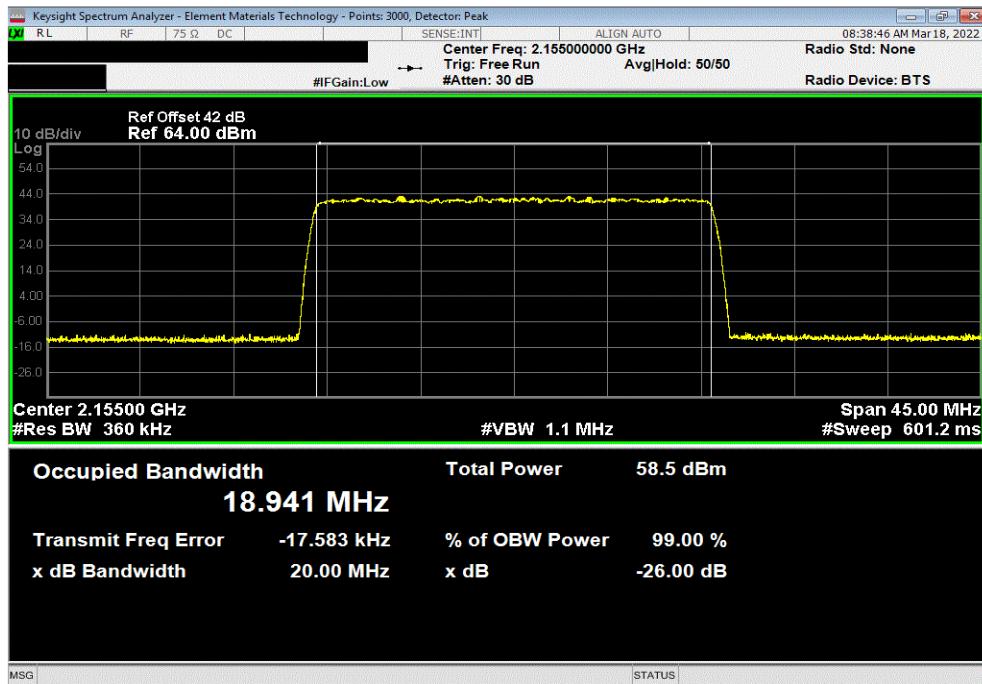


OCCUPIED BANDWIDTH

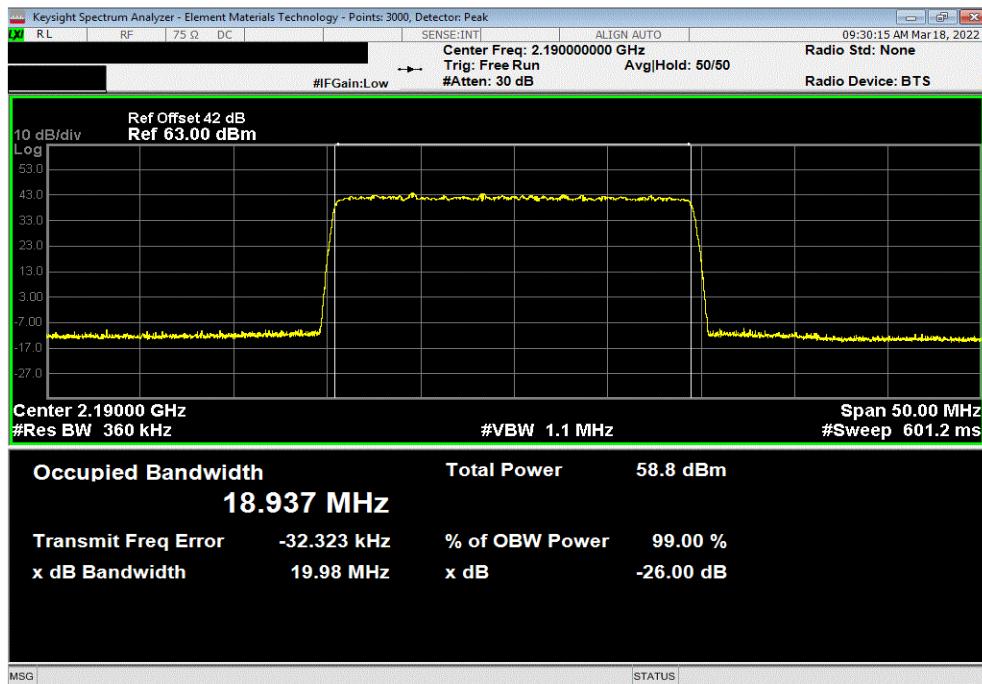


TbTx 2022.03.14.0 XMit 2022.02.07.0

Band n66, 2110 MHz - 2200 MHz, 5G NR, Port 1, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz					
	Value 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	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 99% (MHz)	Value 26dB (MHz)	Limit	Result	
	18.937	19.977	Within Band	Pass	

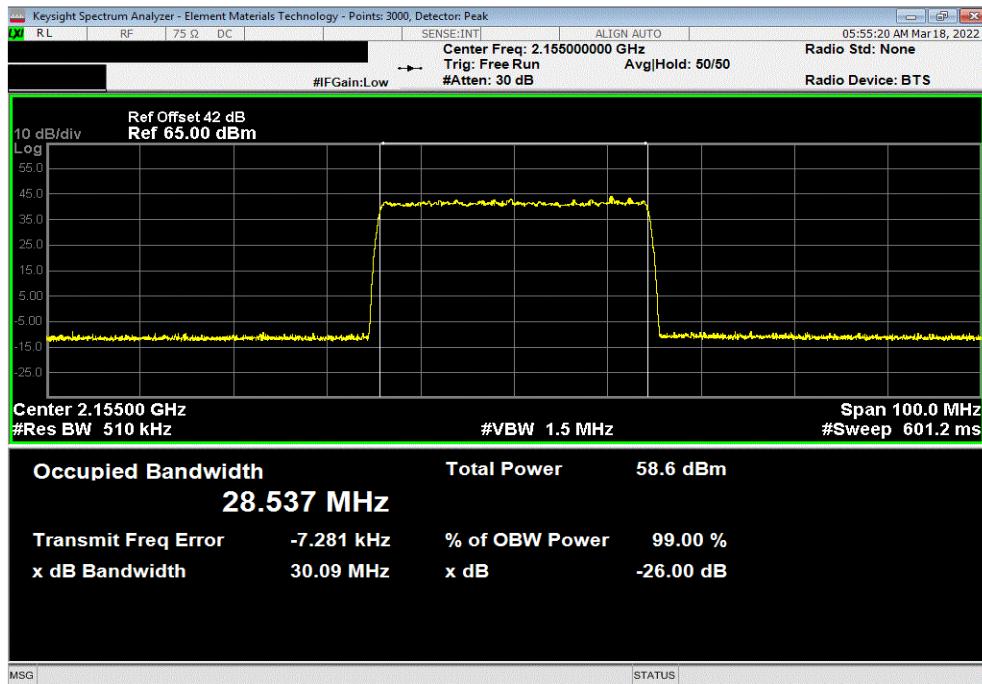


OCCUPIED BANDWIDTH

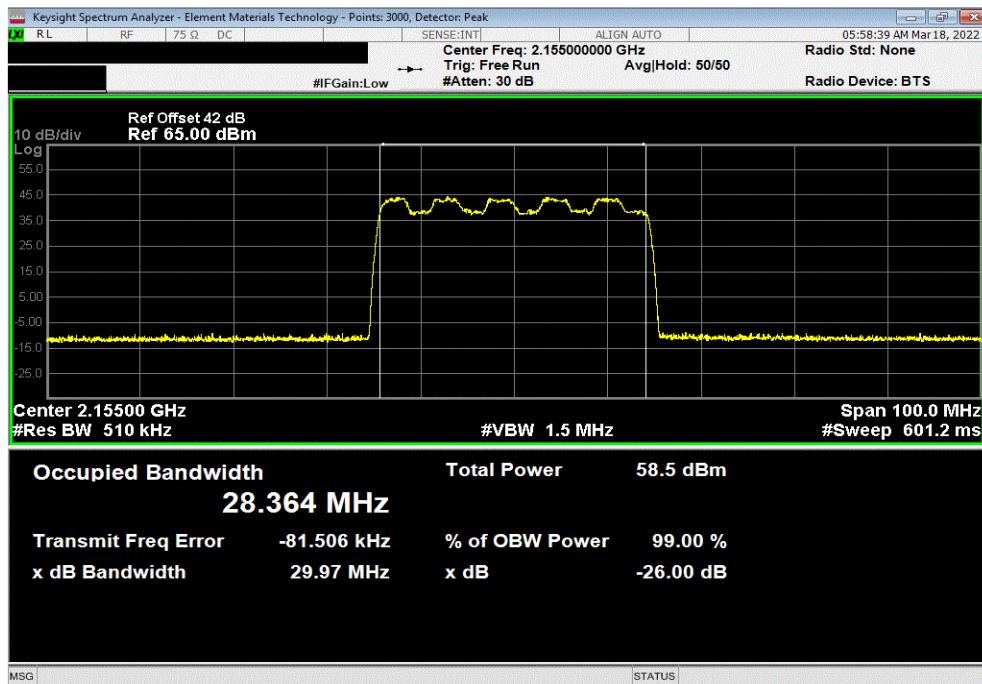


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

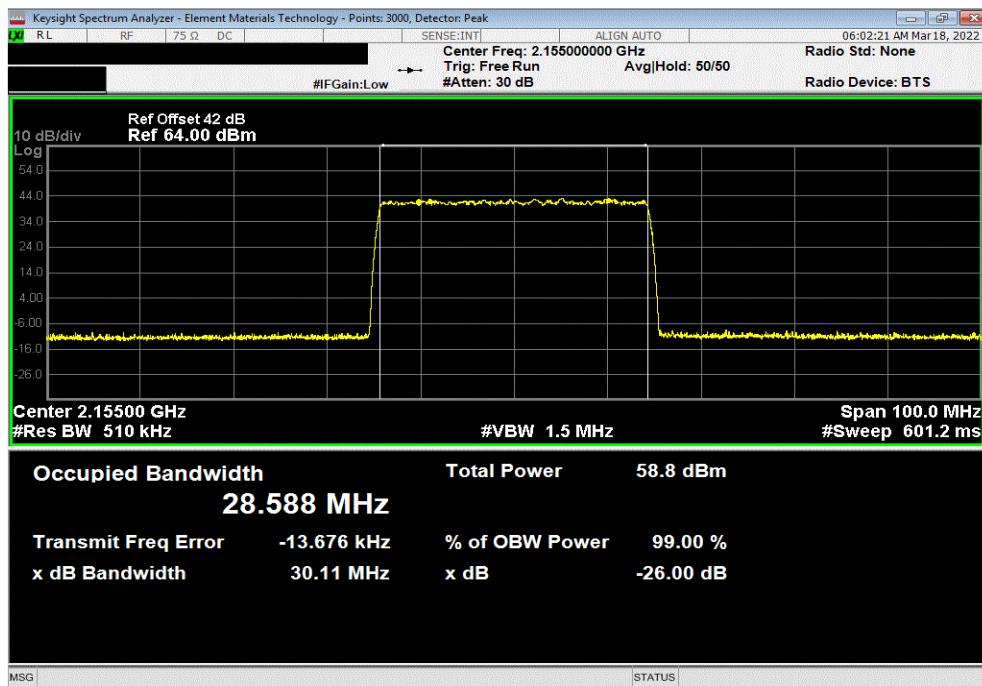


OCCUPIED BANDWIDTH

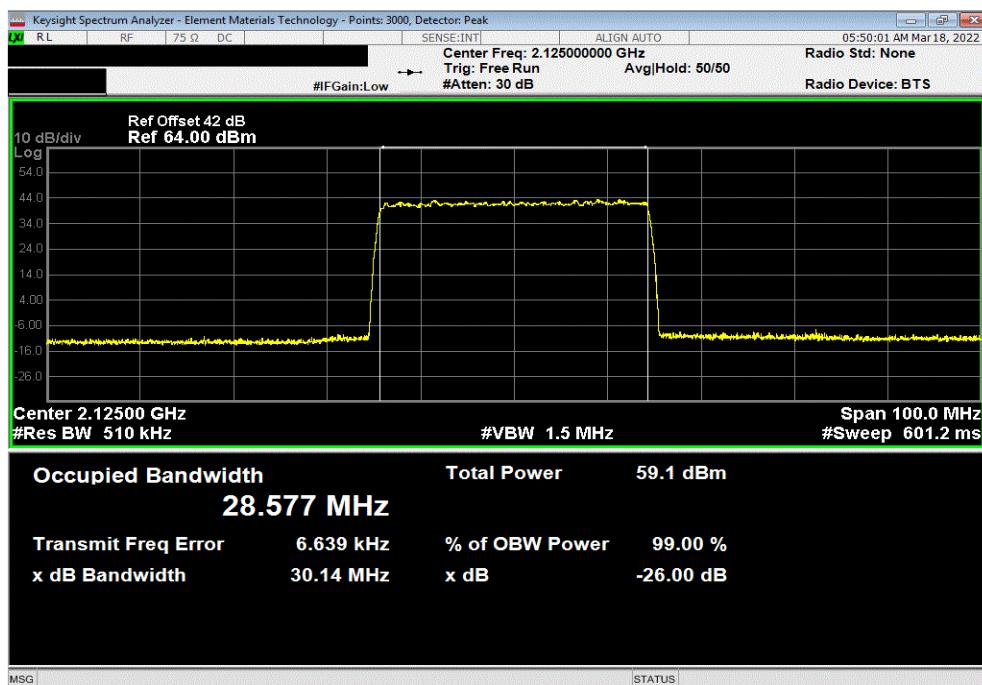


TbTx 2022.03.14.0 XMit 2022.02.07.0

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

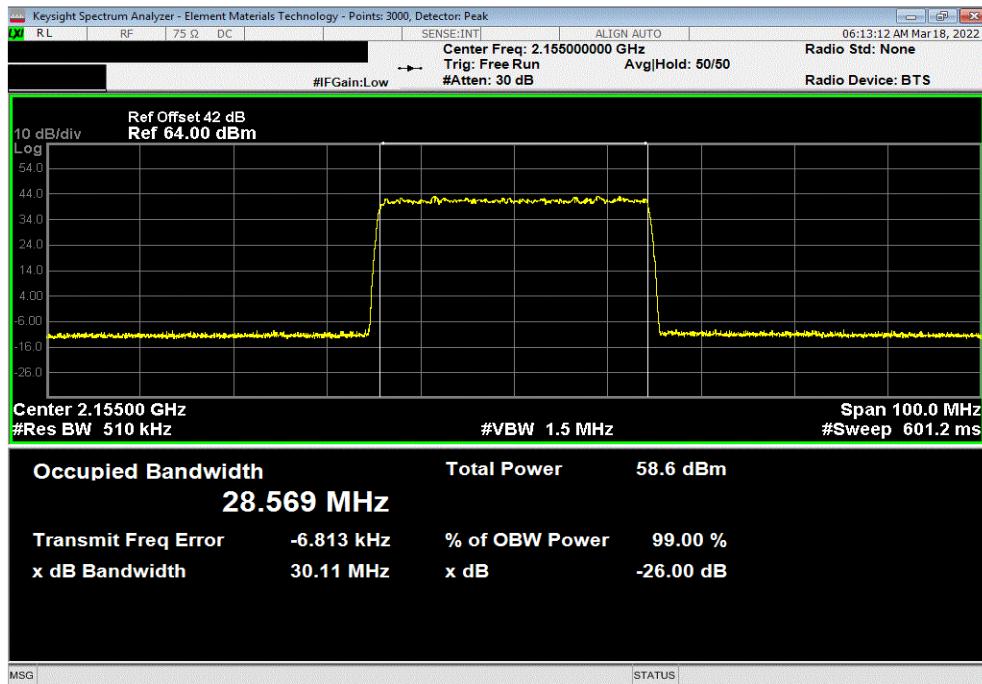


OCCUPIED BANDWIDTH



TbTx 2022.03.14.0 XMit 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

