

OUTPUT POWER - BAND n25

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurements. This method uses trace averaging across the ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding $[10 \log (1/D)]$, where D is the duty cycle in decimal, to the measured power to compute the average power during the actual transmission times

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 total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1.

OUTPUT POWER - BAND n25



TMTx 2022.06.03.0 XMM 2022.02.07.0

EUT: AHFII (FCC/ISED C2PC)		Work Order: NOKI0050	
Serial Number: K9181401111		Date: 18-Oct-22	
Customer: Nokia of America Corporation		Temperature: 19.9 °C	
Attendees: Mitchell Hill		Humidity: 33.7% RH	
Project: None		Barometric Pres.: 1029 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	
Job Site: TX07			
TEST SPECIFICATIONS		Test Method	
FCC 24E:2022		ANSI C63.26:2015	
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015	
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). The following is the output power measurements at the radio output ports. The output power was measured for a single carrier over the carrier channel bandwidth on port 1. The total output power for multiport (2x2 MIMO, 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)]. The total output power for four port operation is single port power + 6dB [i.e. 10log(4)].			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		Initial Value dBm/MHz	Duty Cycle Factor (dB)
		Single Port dBm/Carrier BW	Two Port (2x2 MIMO) dBm/Carrier BW
		Four Port (4x4 MIMO) dBm/Carrier BW	

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz
40 MHz

QPSK

Low Channel, 1950 MHz	49.177	0	49.2	52.2	55.2
Mid Channel, 1962.5 MHz	49.194	0	49.2	52.2	55.2
High Channel, 1975 MHz	49.385	0	49.4	52.4	55.4

16QAM

Low Channel, 1950 MHz	49.072	0	49.1	52.1	55.1
Mid Channel, 1962.5 MHz	49.045	0	49.0	52.0	55.0
High Channel, 1975 MHz	49.295	0	49.3	52.3	55.3

64QAM

Low Channel, 1950 MHz	49.219	0	49.2	52.2	55.2
Mid Channel, 1962.5 MHz	49.181	0	49.2	52.2	55.2
High Channel, 1975 MHz	49.393	0	49.4	52.4	55.4

256QAM

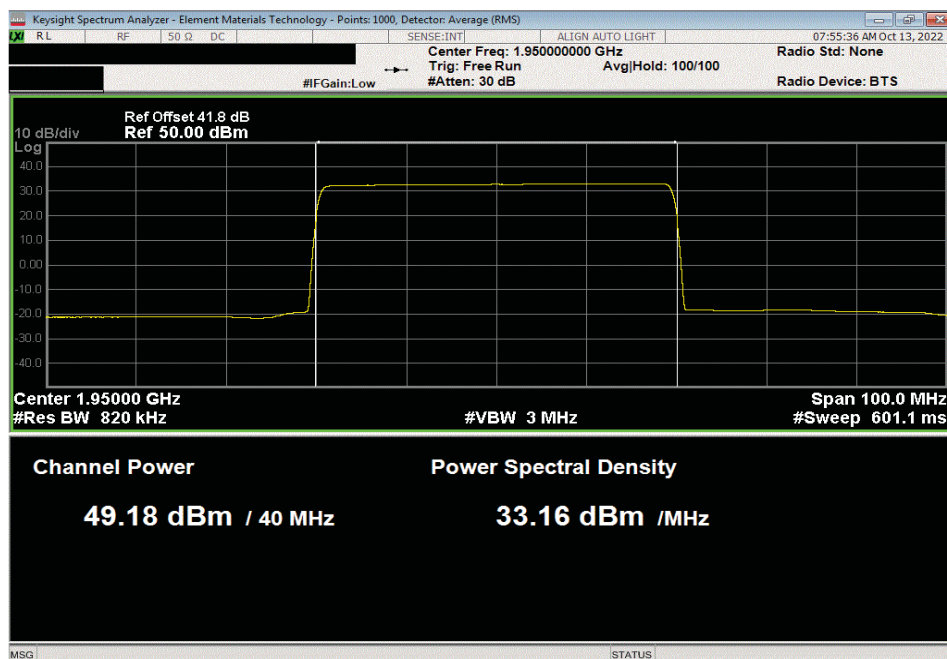
Low Channel, 1950 MHz	49.205	0	49.2	52.2	55.2
Mid Channel, 1962.5 MHz	49.202	0	49.2	52.2	55.2
High Channel, 1975 MHz	49.405	0	49.4	52.4	55.4

OUTPUT POWER - BAND n25

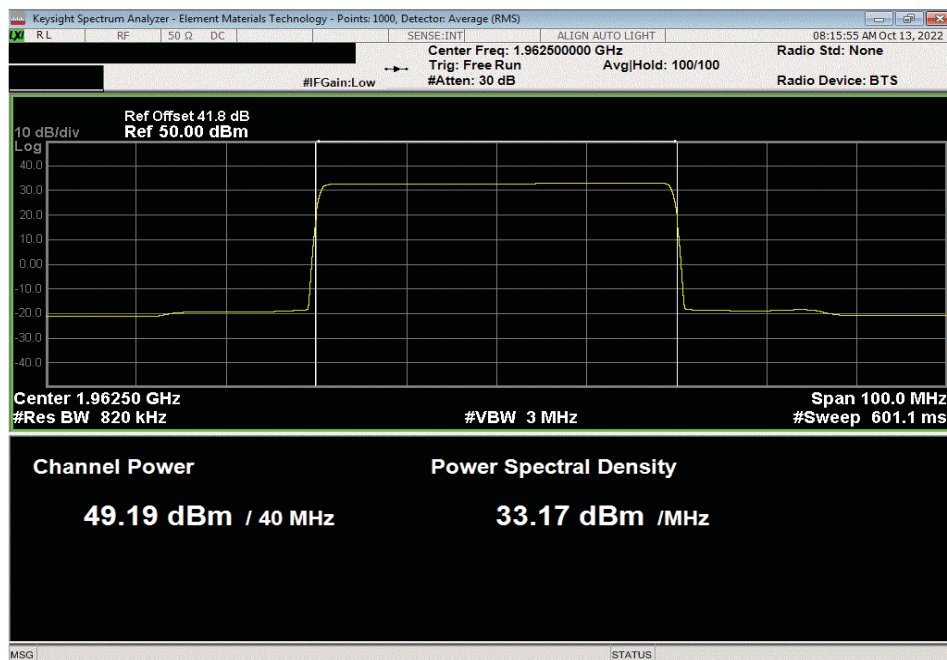


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, QPSK, Low Channel, 1950 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.177	0	49.177	52.177	55.177		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, QPSK, Mid Channel, 1962.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.194	0	49.194	52.194	55.194		

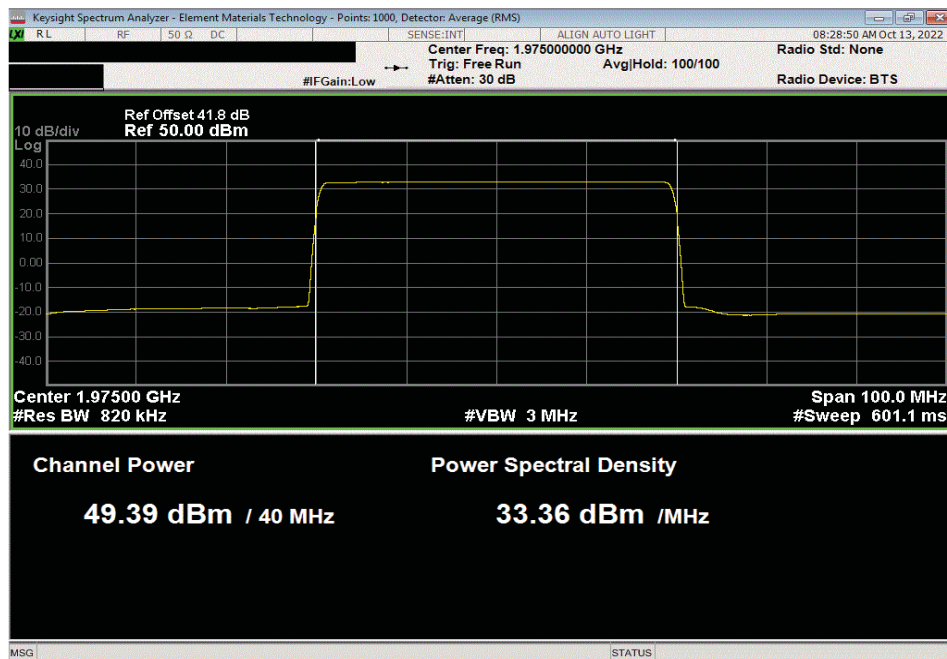


OUTPUT POWER - BAND n25

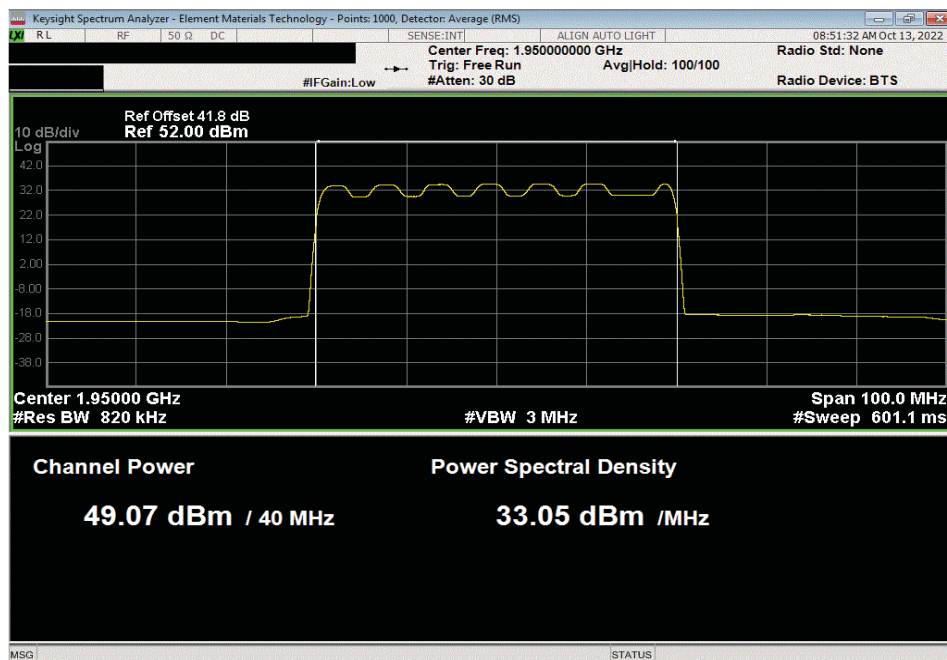


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, QPSK, High Channel, 1975 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.385	0	49.385	52.385	55.385		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 16QAM, Low Channel, 1950 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.072	0	49.072	52.072	55.072		

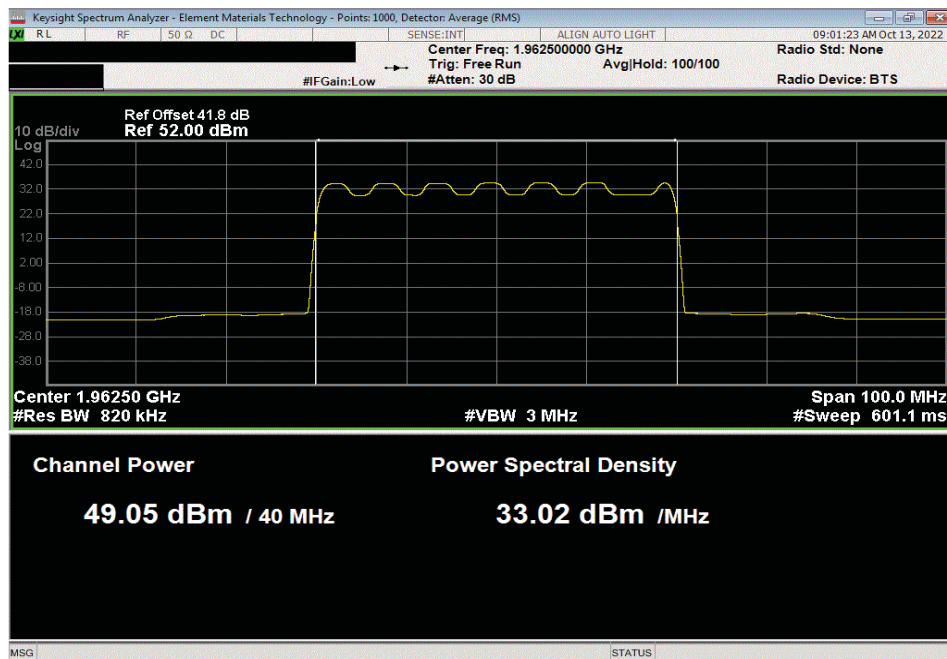


OUTPUT POWER - BAND n25

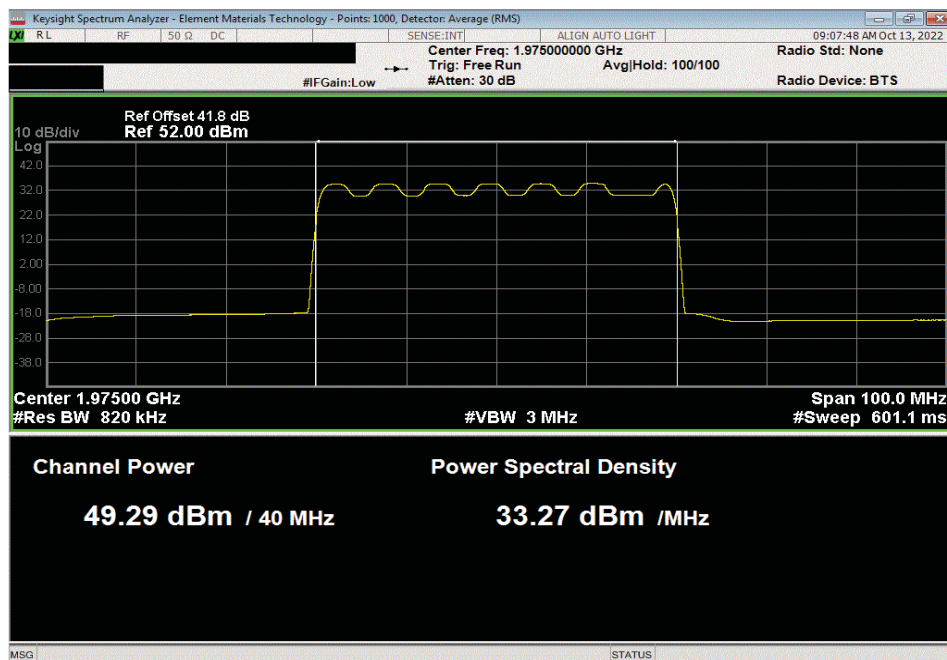


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 16QAM, Mid Channel, 1962.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.045	0	49.045	52.045	55.045		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 16QAM, High Channel, 1975 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.295	0	49.295	52.295	55.295		

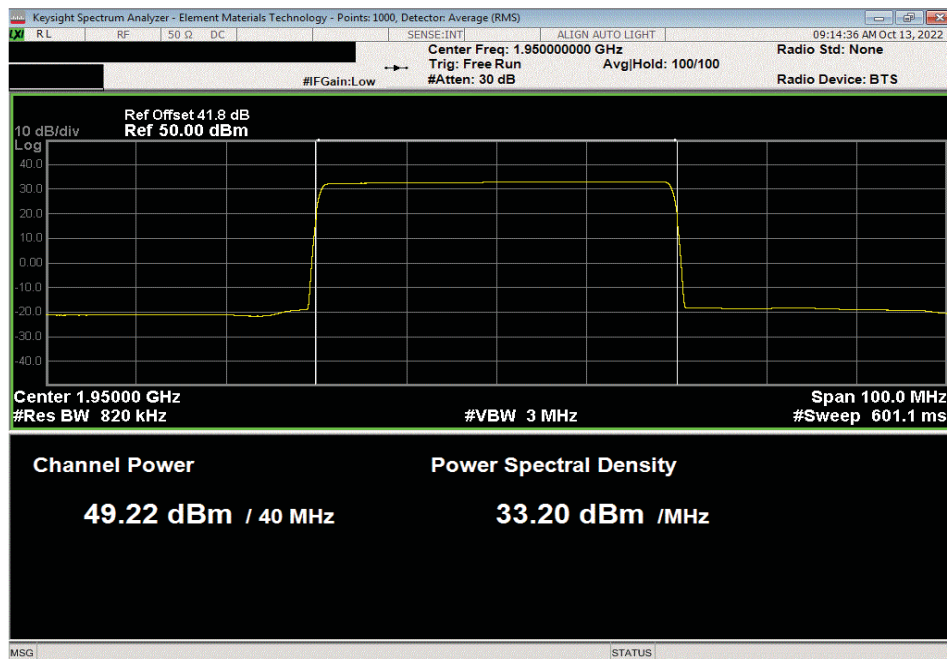


OUTPUT POWER - BAND n25

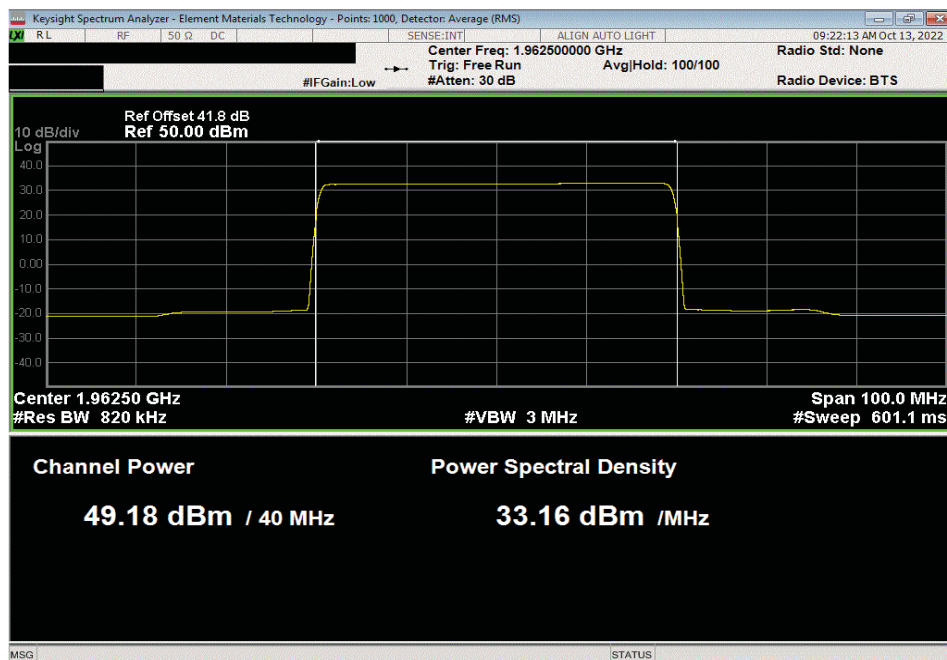


TbTx 2022.06.03.0 XMM 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 64QAM, Low Channel, 1950 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.219	0	49.219	52.219	55.219		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 64QAM, Mid Channel, 1962.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.181	0	49.181	52.181	55.181		

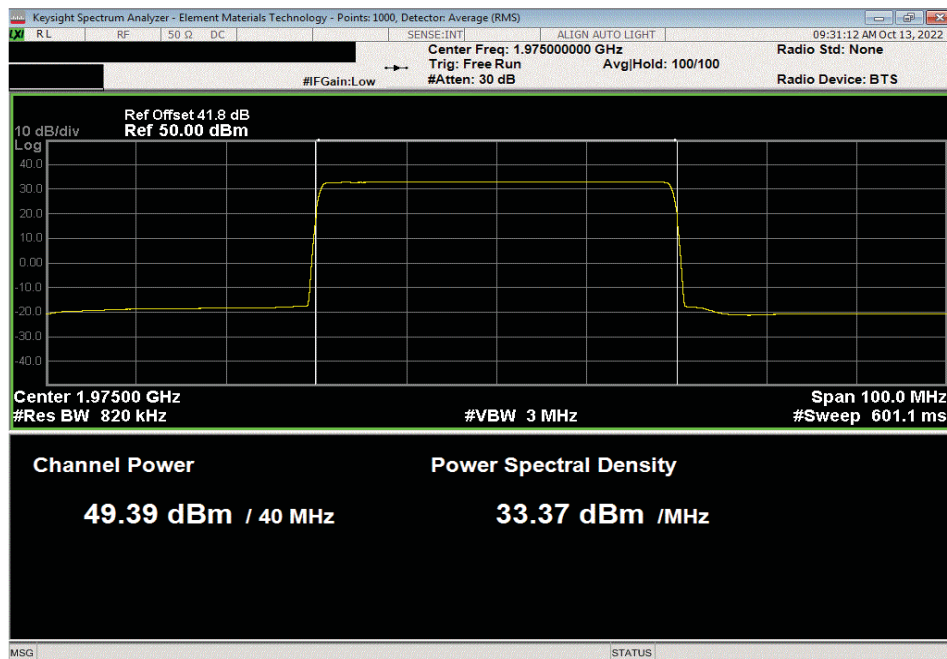


OUTPUT POWER - BAND n25

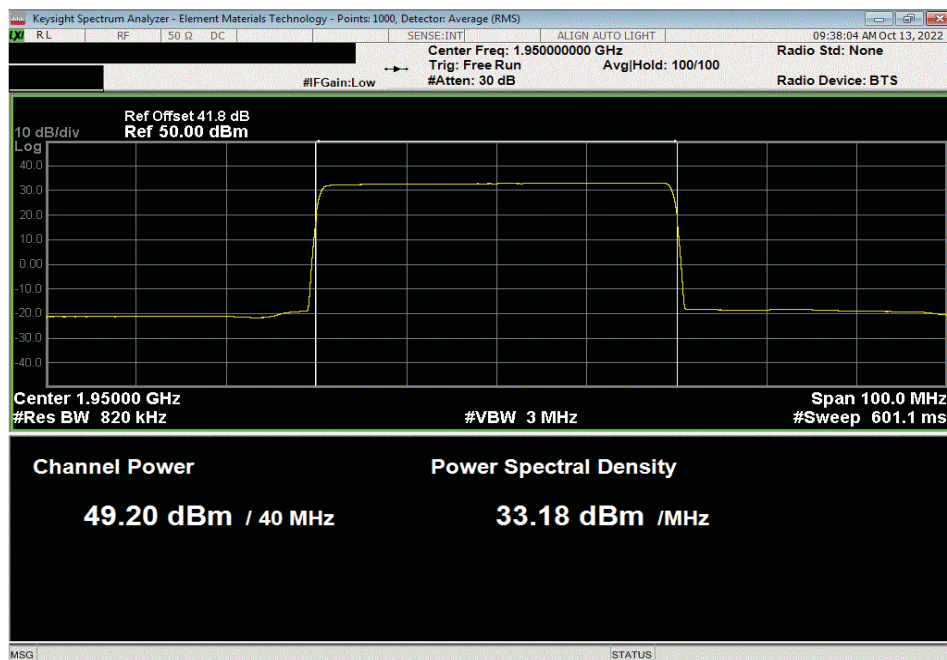


TBXTx 2022.06.03.0 XMM 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 64QAM, High Channel, 1975 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.393	0	49.393	52.393	55.393		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 256QAM, Low Channel, 1950 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.205	0	49.205	52.205	55.205		

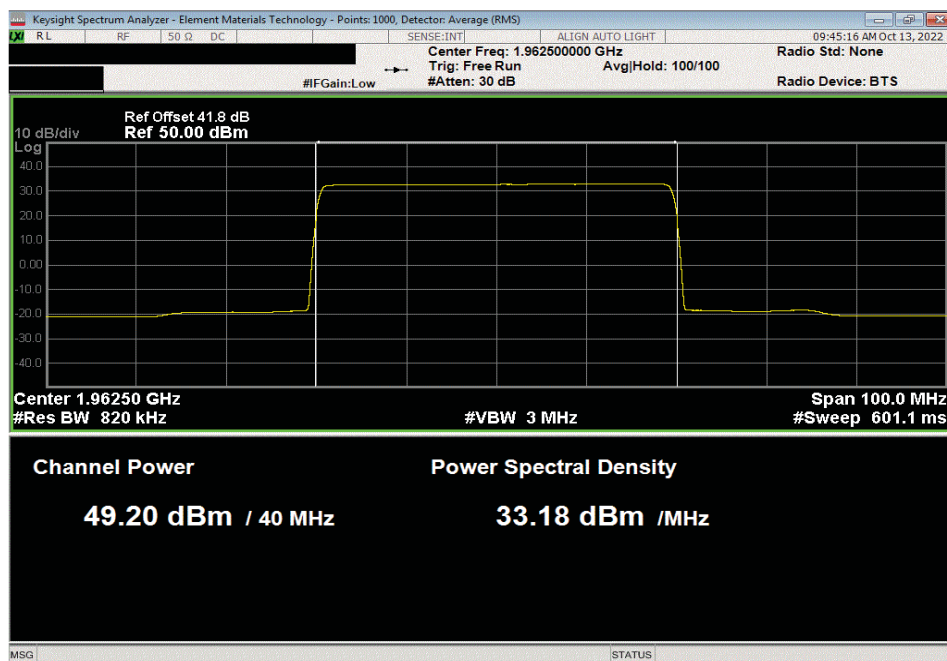


OUTPUT POWER - BAND n25

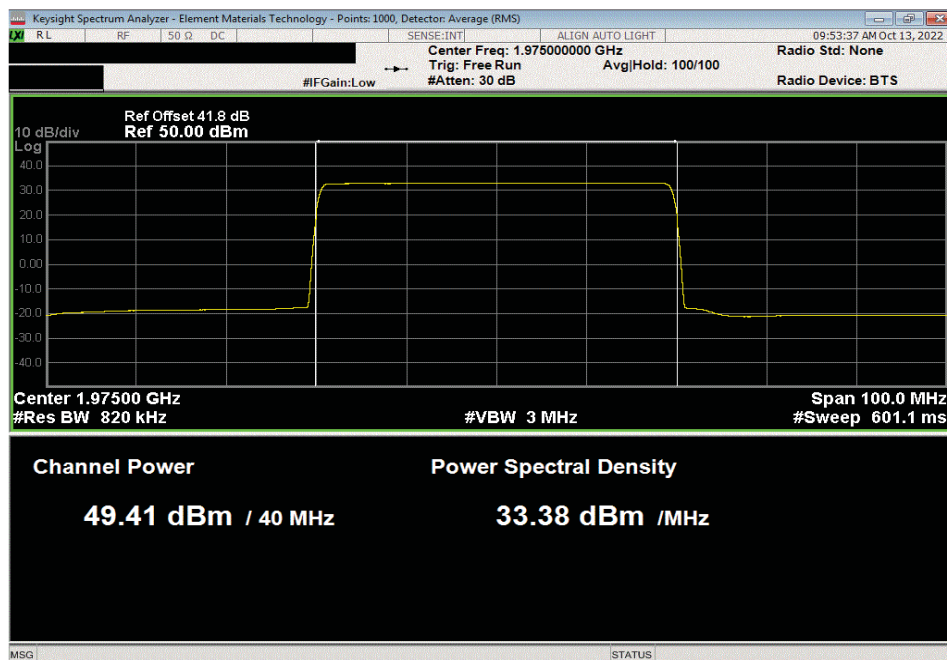


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 256QAM, Mid Channel, 1962.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.202	0	49.202	52.202	55.202		



Port 1, Band n25, NR 40 MHz, 1930 - 1995 MHz, 40 MHz, 256QAM, High Channel, 1975 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
49.41	0	49.41	52.41	55.41		



OUTPUT POWER - n25 All PORTS



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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurements. This method uses trace averaging across the ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding $[10 \log (1/D)]$, where D is the duty cycle in decimal, to the measured power to compute the average power during the actual transmission times

The total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1.

OUTPUT POWER - BAND n25 ALL PORTS



ThTx 2022.05.02.0 XMit 2022.02.07.0

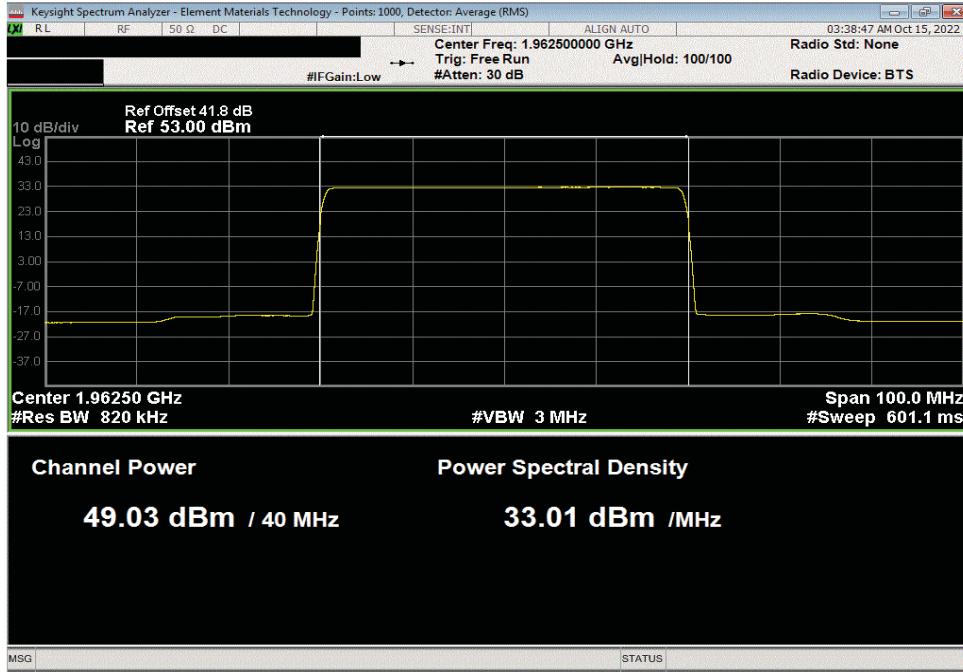
EUT:	AHFII (FCC/ISED C2PC)		Work Order:	NOKI0050	
Serial Number:	K9181401111		Date:	18-Oct-22	
Customer:	Nokia of America Corporation		Temperature:	22 °C	
Attendees:	Mitchell Hill		Humidity:	31.1% RH	
Project:	None		Barometric Pres.:	1030 mbar	
Tested by:	Brandon Hobbs	Power:	54 VDC	Job Site:	TX07
TEST SPECIFICATIONS			Test Method		
FCC 24E:2022			ANSI C63.26:2015		
RSS-133 Issue 6:2013+A1:2018			ANSI C63.26:2015		
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 			
		Initial Value dBm/MHz	Duty Cycle Factor (dB)	Single Port dBm/Carrier BW	Four Port (4x4 MIMO) Final Value
Port 1	5G NR, Band n25, 1930 - 1995 MHz				
	256-QAM Modulation				
	Mid Channel, 1962.5 MHz	49.029	0	49.0	N/A
Port 2	5G NR, Band n25, 1930 - 1995 MHz				
	256-QAM Modulation				
	Mid Channel, 1962.5 MHz	49.102	0	49.1	N/A
Port 3	5G NR, Band n25, 1930 - 1995 MHz				
	256-QAM Modulation				
	Mid Channel, 1962.5 MHz	48.969	0	49.0	N/A
Port 4	5G NR, Band n25, 1930 - 1995 MHz				
	256-QAM Modulation				
	Mid Channel, 1962.5 MHz	48.818	0	48.8	N/A
All Ports	5G NR, Band n25, 1930 - 1995 MHz				
	256-QAM Modulation				
	Mid Channel, 1962.5 MHz	N/A	N/A	N/A	55.0

OUTPUT POWER - BAND n25 ALL PORTS

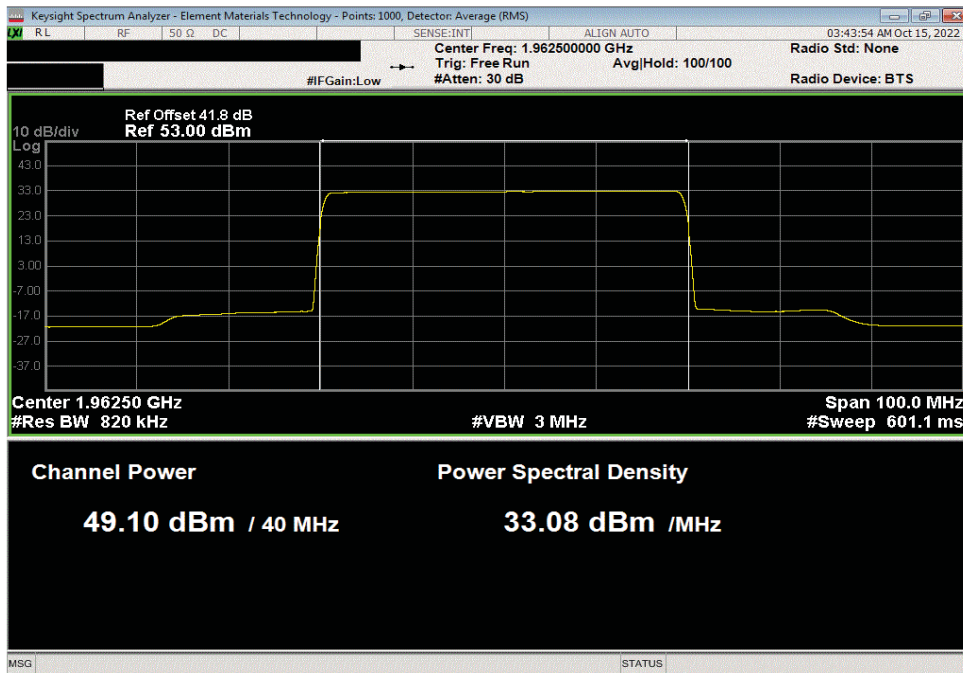


TbTtX 2022.05.02.0 XMtI 2022.02.07.0

Port 1, 5G NR, Band n25, 1930 - 1995 MHz, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
49.029	0	49.029	N/A		



Port 2, 5G NR, Band n25, 1930 - 1995 MHz, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
49.102	0	49.102	N/A		

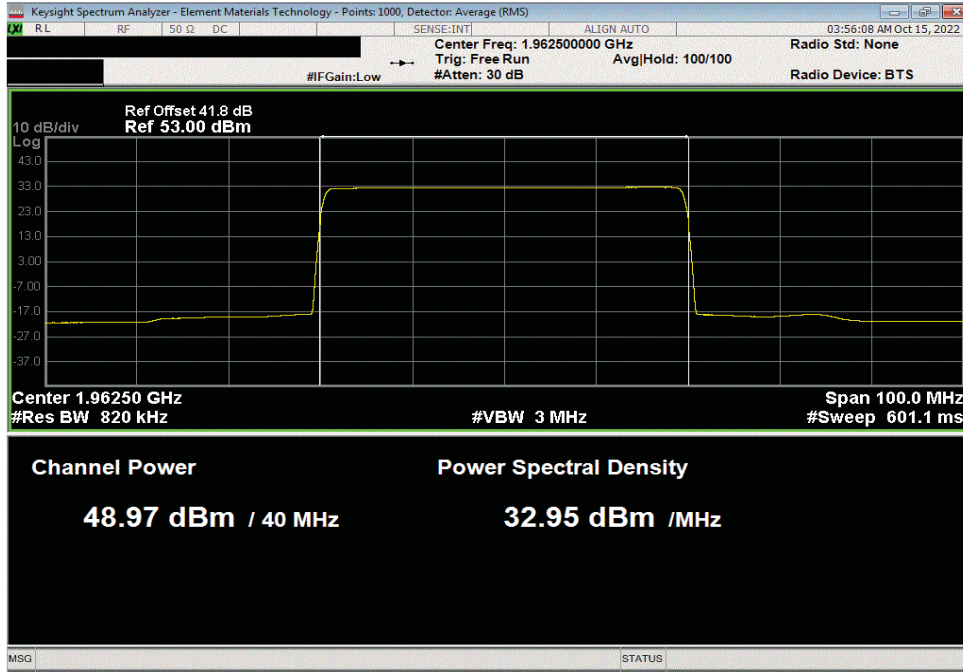


OUTPUT POWER - BAND n25 ALL PORTS

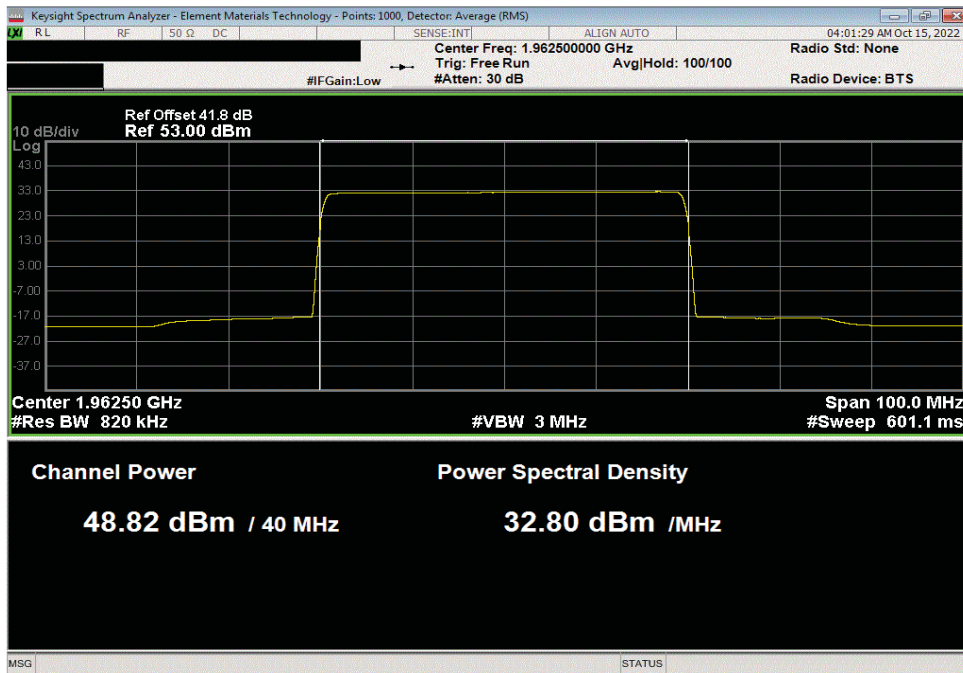


TbTtX 2022.05.02.0 XMtI 2022.02.07.0

Port 3, 5G NR, Band n25, 1930 - 1995 MHz, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.969	0	48.969	N/A		



Port 4, 5G NR, Band n25, 1930 - 1995 MHz, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.818	0	48.818	N/A		



OUTPUT POWER - BAND n25 ALL PORTS



TbTtx 2022.05.02.0 XMM 2022.02.07.0

All Ports, 5G NR, Band n25, 1930 - 1995 MHz, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Initial Value dBm/MHz	Duty Cycle Factor (dB)	Single Port dBm/Carrier BW	Four Port (4x4 MIMO) Final Value		
	N/A	N/A	N/A	55.00		

Ports	dBm Power	Watts Power	Total Watts Power	Total dBm Power
Port 1	49.03	79.97		
Port 2	49.10	81.32		
Port 3	48.97	78.87		
Port 4	48.82	76.17		
All Ports			316.33	55.00

N/A

OUTPUT POWER - BAND n66

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	SD3239	ANC	2022-03-02	2023-03-02
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurements. This method uses trace averaging across the ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding $[10 \log (1/D)]$, where D is the duty cycle in decimal, to the measured power to compute the average power during the actual transmission times

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 total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1.

OUTPUT POWER - BAND n66



TelTx 2022.06.03.0 XMt 2022.02.07.0

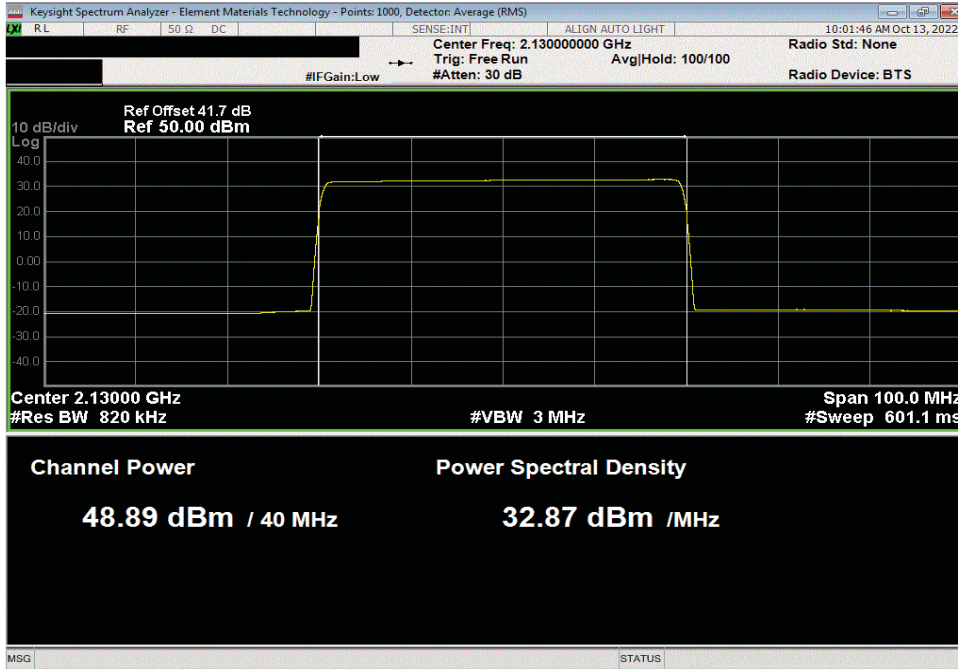
EUT: AHFII (FCC/ISED C2PC)			Work Order: NOKI0050			
Serial Number: K9181401111			Date: 18-Oct-22			
Customer: Nokia of America Corporation			Temperature: 22 °C			
Attendees: Mitchell Hill			Humidity: 30.2% RH			
Project: None			Barometric Pres.: 1030 mbar			
Tested by: Brandon Hobbs		Power: 54 VDC	Job Site: TX07			
TEST SPECIFICATIONS			Test Method			
FCC 27:2022			ANSI C63.26:2015			
RSS-139 Issue 4:2022			ANSI C63.26:2015			
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). The following is the output power measurements at the radio output ports. The output power was measured for a single carrier over the carrier channel bandwidth on port 1. The total output power for multiport (2x2 MIMO and 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)]. The total output power for four port operation is single port power + 6dB [i.e. 10log(4)].						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2	Signature 				
		Initial Value dBm/MHz	Duty Cycle Factor (dB)	Single Port dBm/Carrier BW	Two Port (2x2 MIMO) dBm/Carrier BW	Four Port (4x4 MIMO) dBm/Carrier BW
Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz						
40 MHz						
QPSK						
	Low Channel, 2130 MHz	48.895	0	48.9	51.9	54.9
	Mid Channel, 2155 MHz	48.575	0	48.6	51.6	54.6
	High Channel, 2180 MHz	48.735	0	48.7	51.7	54.7
16QAM						
	Low Channel, 2130 MHz	48.792	0	48.8	51.8	54.8
	Mid Channel, 2155 MHz	48.486	0	48.5	51.5	54.5
	High Channel, 2180 MHz	48.823	0	48.8	51.8	54.8
64QAM						
	Low Channel, 2130 MHz	48.875	0	48.9	51.9	54.9
	Mid Channel, 2155 MHz	48.524	0	48.5	51.5	54.5
	High Channel, 2180 MHz	48.901	0	48.9	51.9	54.9
256QAM						
	Low Channel, 2130 MHz	48.903	0	48.9	51.9	54.9
	Mid Channel, 2155 MHz	48.618	0	48.6	51.6	54.6
	High Channel, 2180 MHz	48.867	0	48.9	51.9	54.9

OUTPUT POWER - BAND n66

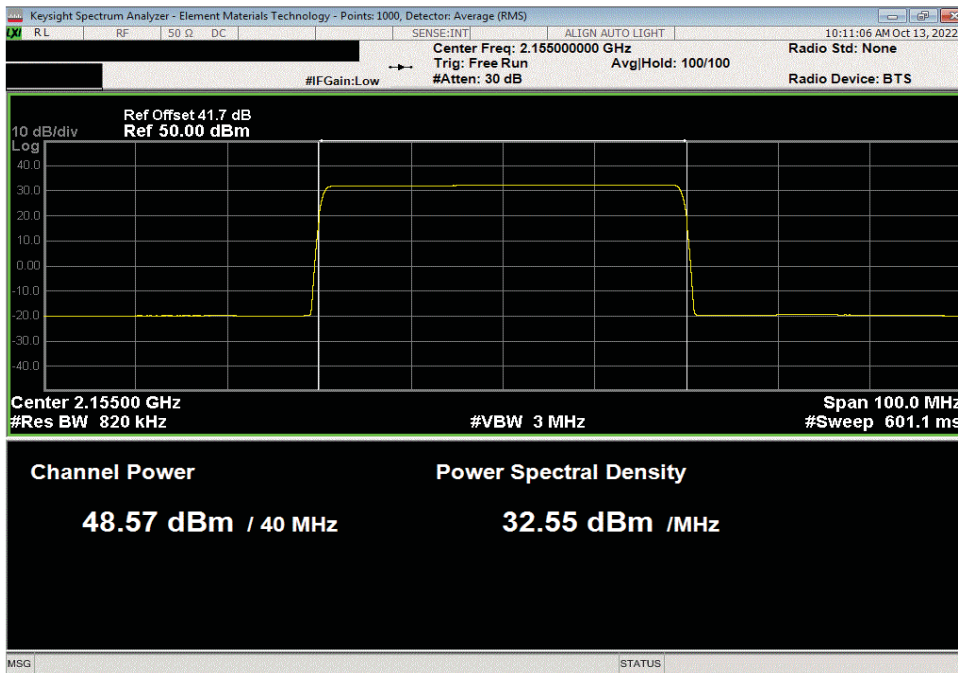


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, QPSK, Low Channel, 2130 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.895	0	48.895	51.895	54.895		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, QPSK, Mid Channel, 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.575	0	48.575	51.575	54.575		

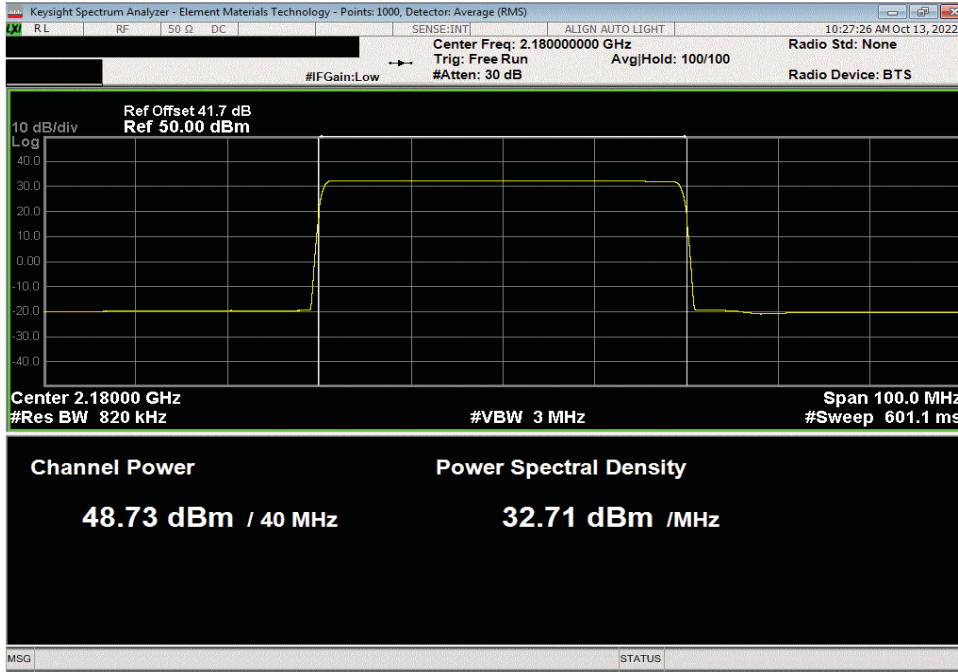


OUTPUT POWER - BAND n66

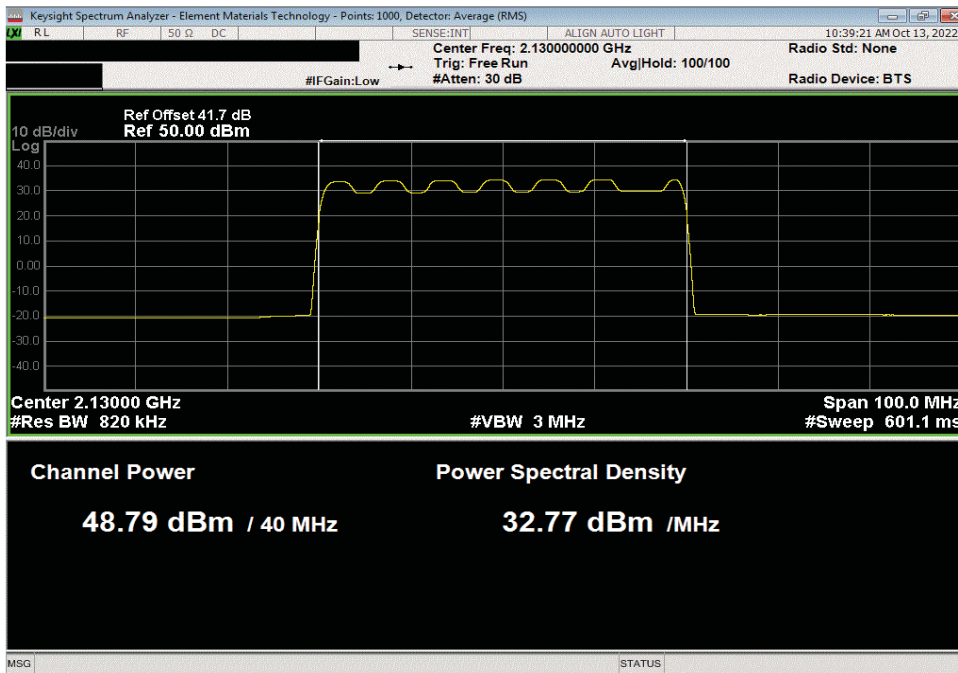


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, QPSK, High Channel, 2180 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.735	0	48.735	51.735	54.735		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 16QAM, Low Channel, 2130 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.792	0	48.792	51.792	54.792		

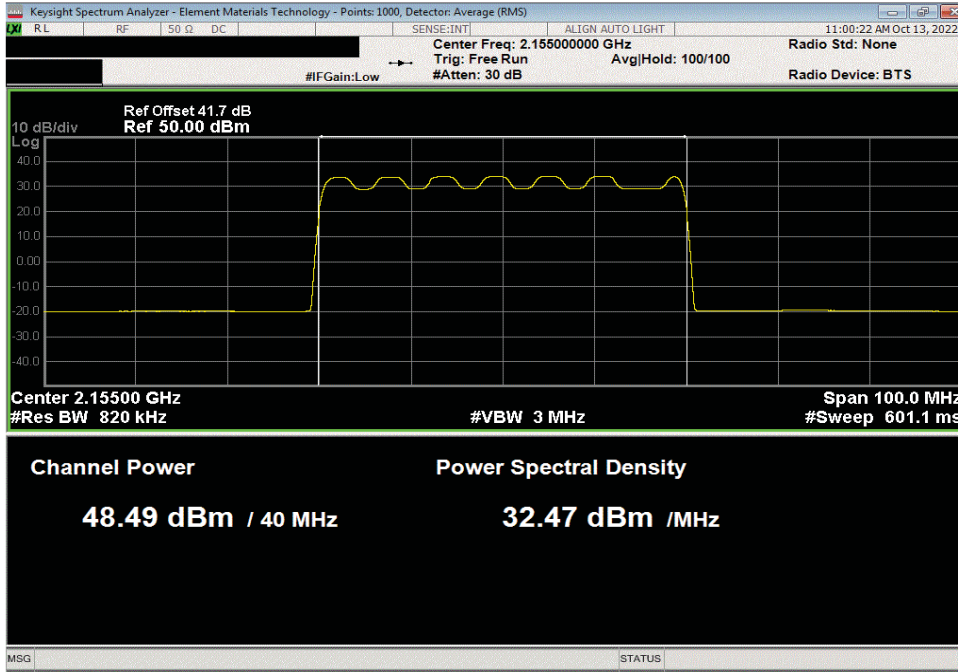


OUTPUT POWER - BAND n66

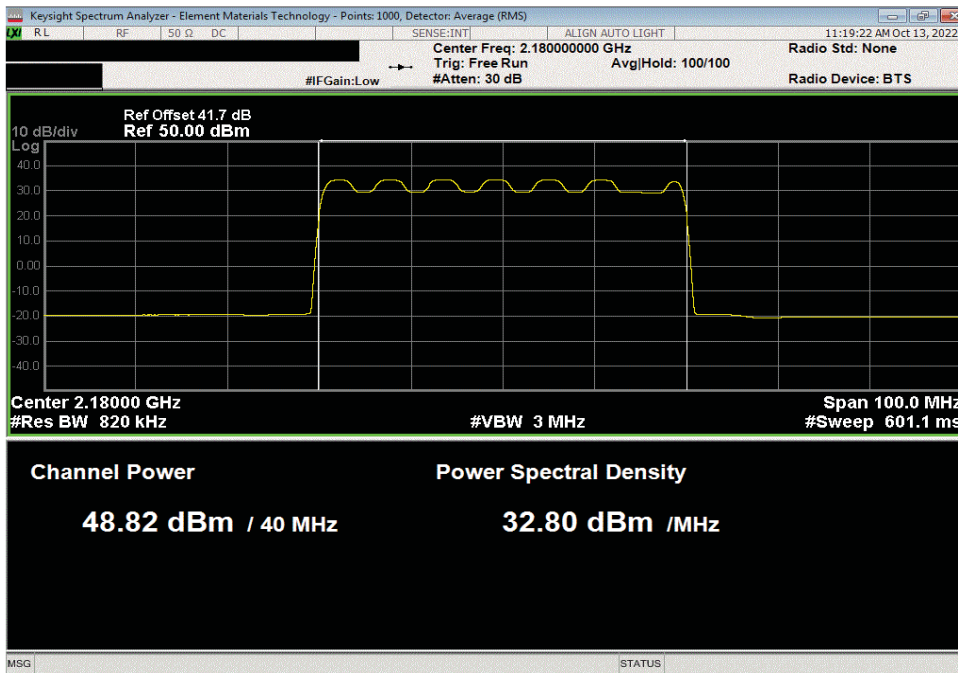


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 16QAM, Mid Channel, 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.486	0	48.486	51.486	54.486		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 16QAM, High Channel, 2180 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.823	0	48.823	51.823	54.823		

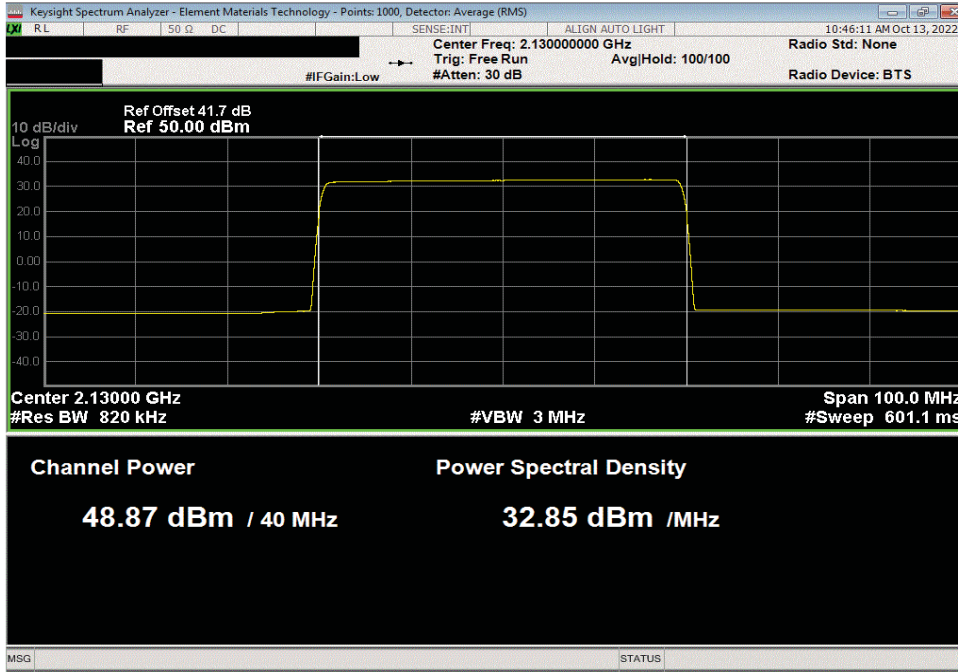


OUTPUT POWER - BAND n66

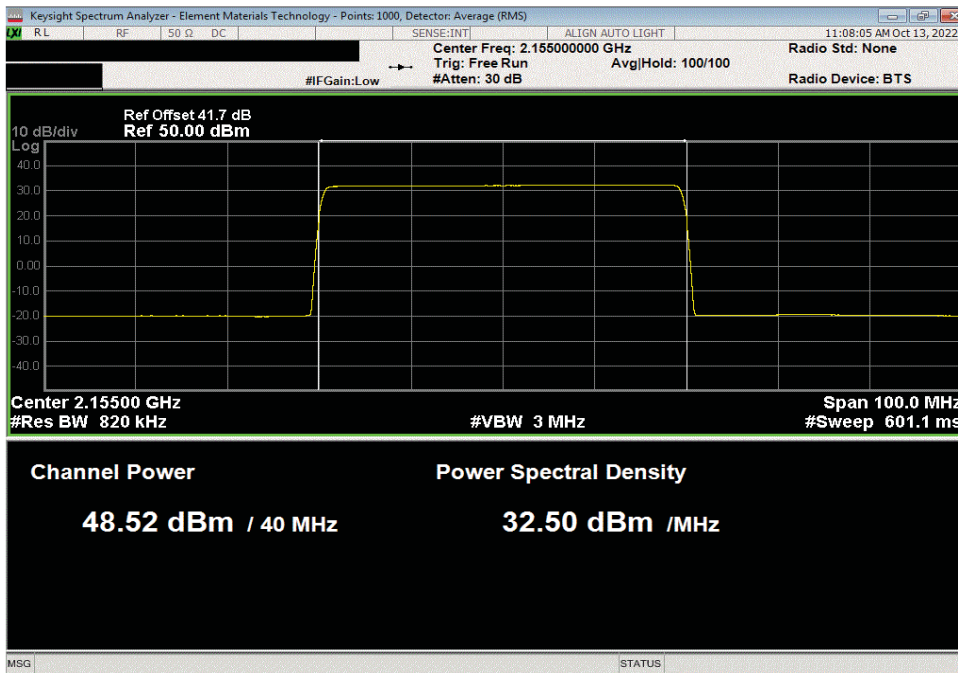


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 64QAM, Low Channel, 2130 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.875	0	48.875	51.875	54.875		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 64QAM, Mid Channel, 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.524	0	48.524	51.524	54.524		

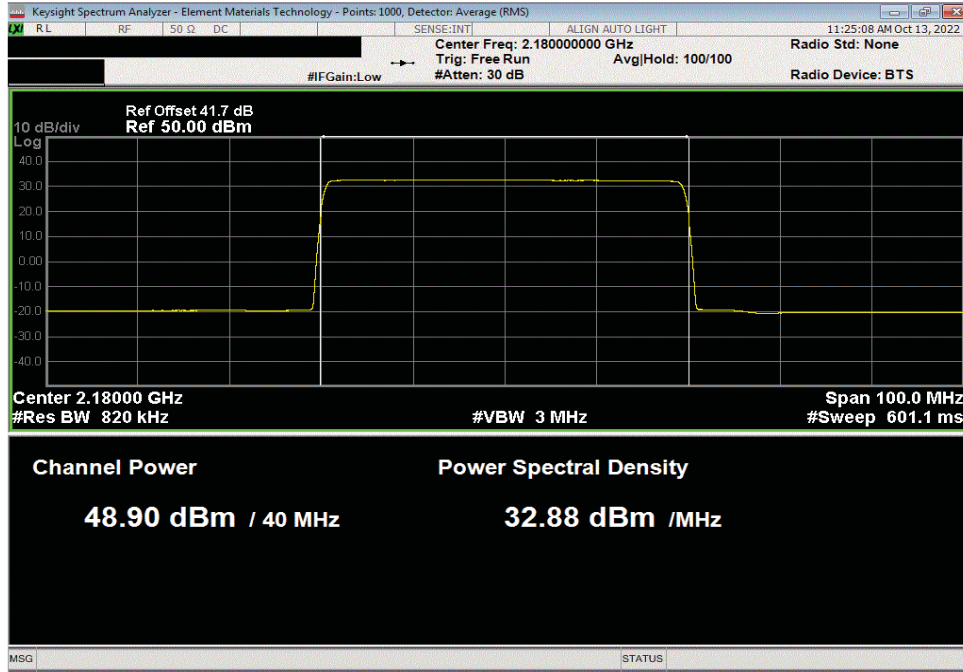


OUTPUT POWER - BAND n66

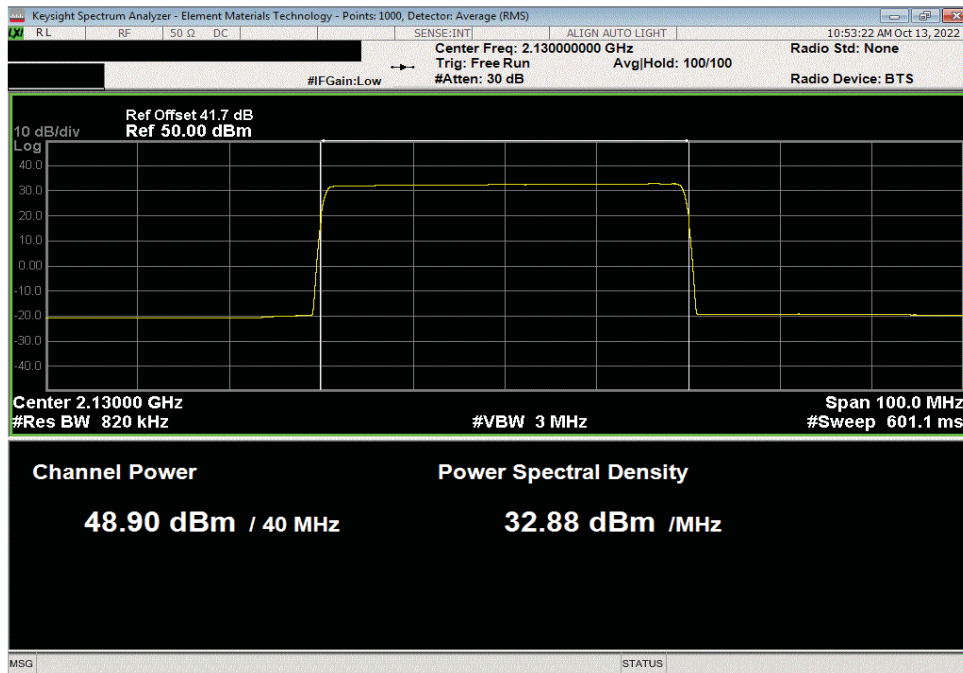


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 64QAM, High Channel, 2180 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.901	0	48.901	51.901	54.901		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 256QAM, Low Channel, 2130 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.903	0	48.903	51.903	54.903		

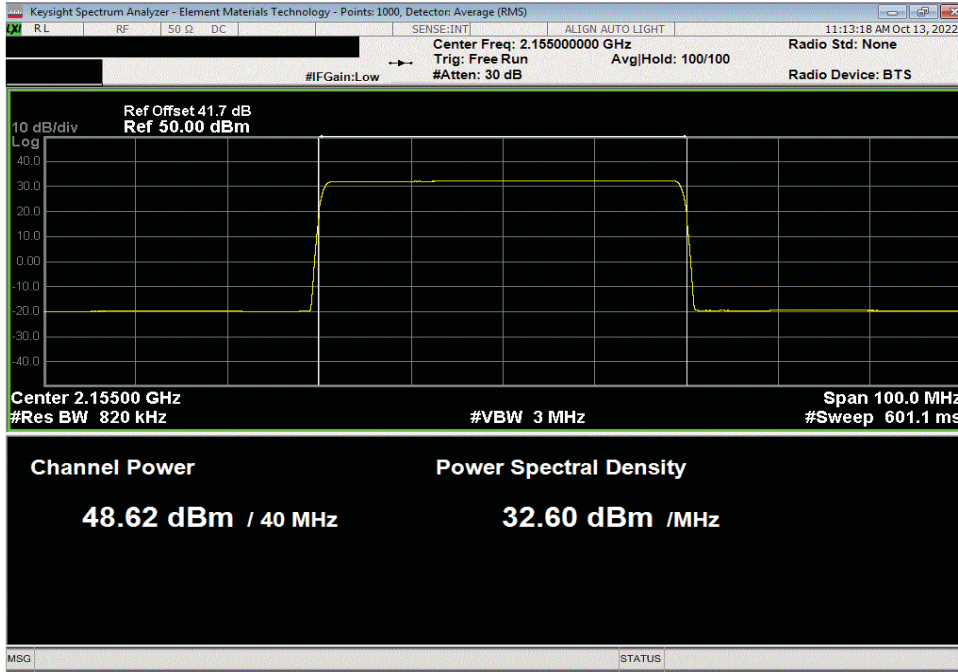


OUTPUT POWER - BAND n66

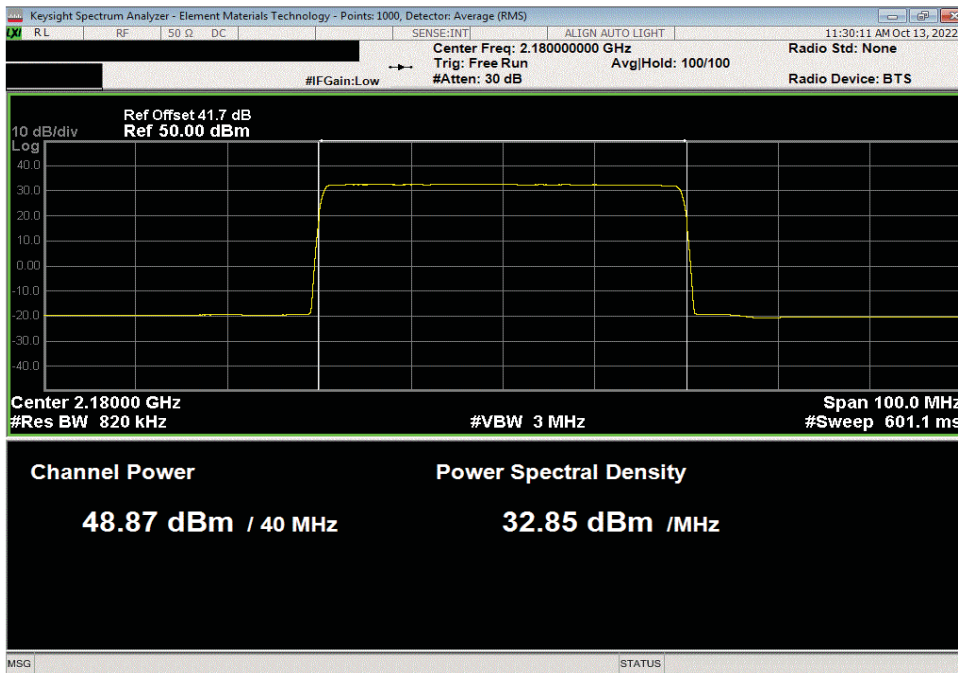


TbTtX 2022.06.03.0 XMtI 2022.02.07.0

Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 256QAM, Mid Channel, 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.618	0	48.618	51.618	54.618		



Port 1, Band n66, NR 40 MHz, 2110 - 2200 MHz, 40 MHz, 256QAM, High Channel, 2180 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
48.867	0	48.867	51.867	54.867		



OUTPUT POWER - BAND n66 ALL PORTS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurements. This method uses trace averaging across the ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding $[10 \log (1/D)]$, where D is the duty cycle in decimal, to the measured power to compute the average power during the actual transmission times

The total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1.

OUTPUT POWER - BAND n66 ALL PORTS



TbTfx 2022.05.02.0 XMI 2022.02.07.0

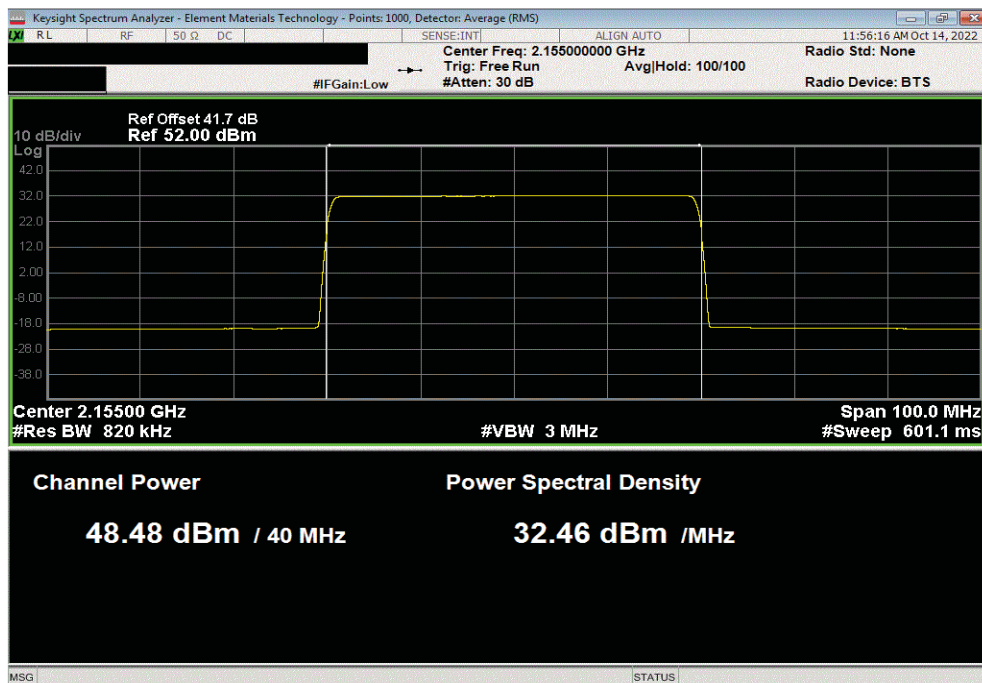
EUT: AHFII (FCC/ISED C2PC)		Work Order: NOKI0050	
Serial Number: K9181401111		Date: 18-Oct-22	
Customer: Nokia of America Corporation		Temperature: 22.2 °C	
Attendees: Mitchell Hill		Humidity: 30.4% RH	
Project: None		Barometric Pres.: 1030 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	Job Site: TX07
TEST SPECIFICATIONS		Test Method	
FCC 27:2022		ANSI C63.26:2015	
RSS-139 Issue 4:2022		ANSI C63.26:2015	
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 	
		Initial Value dBm/MHz	Duty Cycle Factor (dB)
		Single Port dBm/Carrier BW	Four Port (4x4 MIMO) Final Value
Port 1			
	5G NR, Band n66, 2110 - 2200 MHz 256-QAM Modulation		
	Mid Channel, 2155 MHz	48.479	0
		48.5	N/A
Port 2			
	5G NR, Band n66, 2110 - 2200 MHz 256-QAM Modulation		
	Mid Channel, 2155 MHz	48.588	0
		48.6	N/A
Port 3			
	5G NR, Band n66, 2110 - 2200 MHz 256-QAM Modulation		
	Mid Channel, 2155 MHz	48.698	0
		48.7	N/A
Port 4			
	5G NR, Band n66, 2110 - 2200 MHz 256-QAM Modulation		
	Mid Channel, 2155 MHz	48.468	0
		48.5	N/A
All Ports			
	5G NR, Band n66, 2110 - 2200 MHz 256-QAM Modulation		
	Mid Channel, 2155 MHz	N/A	0
		N/A	54.6

OUTPUT POWER - BAND n66 ALL PORTS

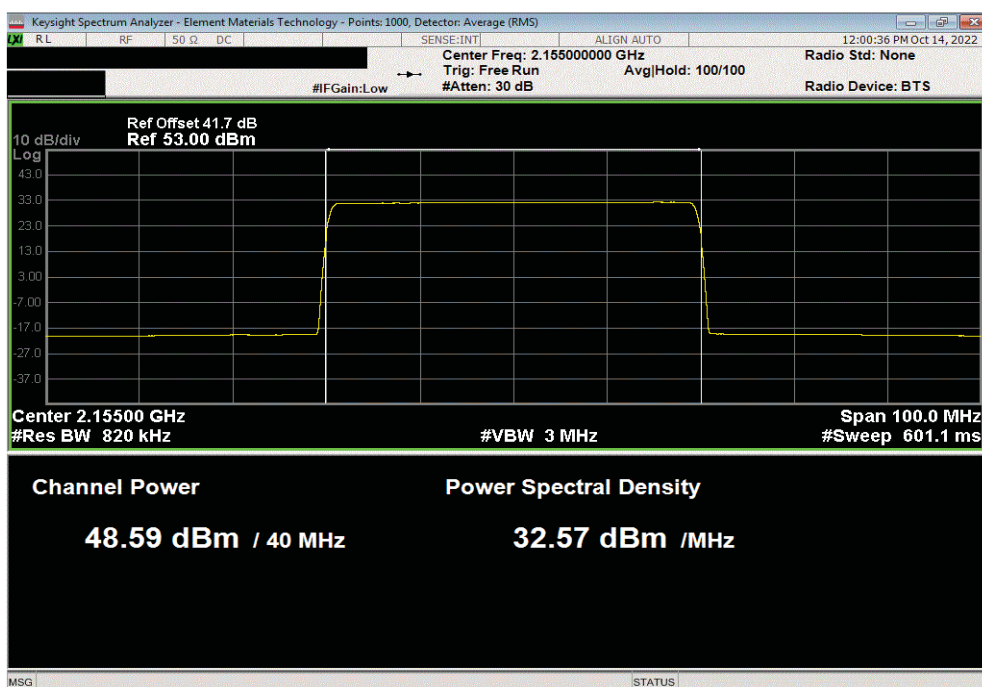


TxtTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, 5G NR, Band n66, 2110 - 2200 MHz, 256-QAM Modulation, Mid Channel, 2155 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.479	0	48.479	N/A		



Port 2, 5G NR, Band n66, 2110 - 2200 MHz, 256-QAM Modulation, Mid Channel, 2155 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.588	0	48.588	N/A		

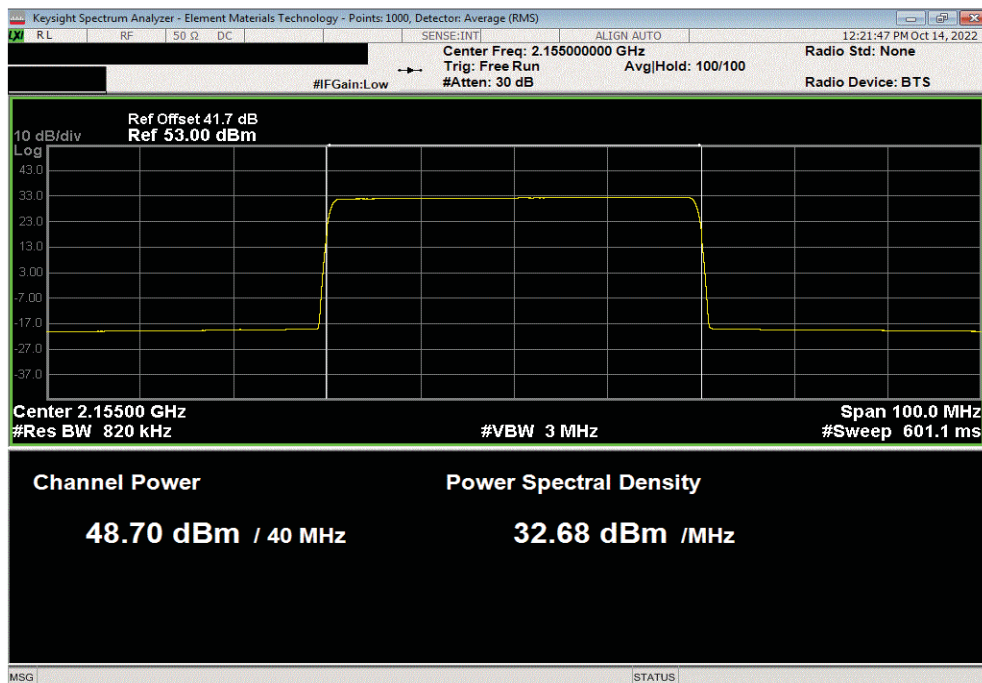


OUTPUT POWER - BAND n66 ALL PORTS

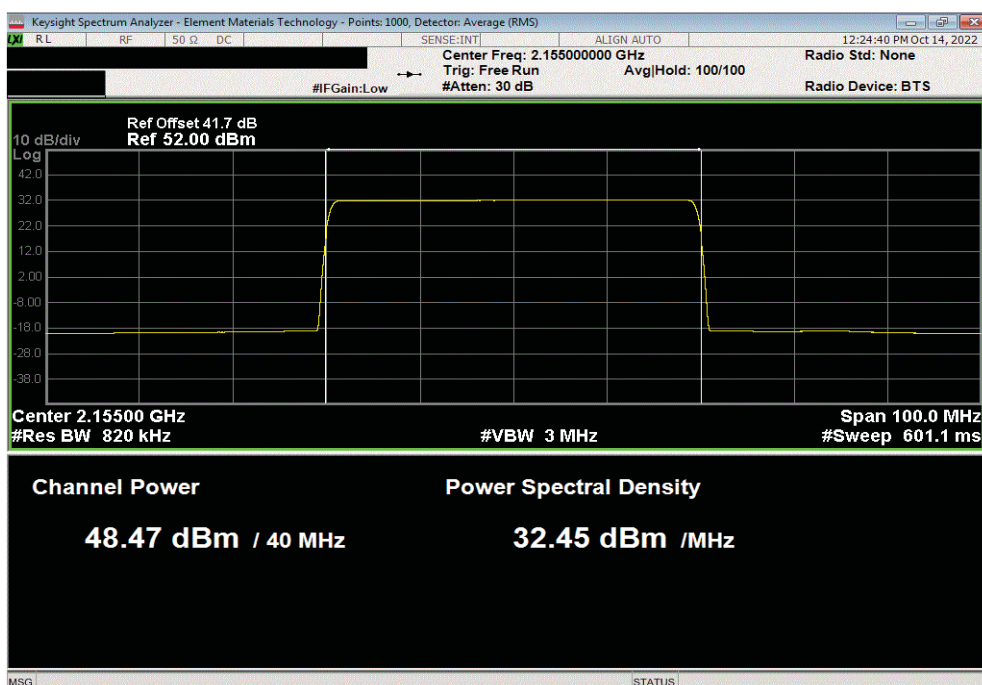


TxFx 2022.05.02.0 XMit 2022.02.07.0

Port 3, 5G NR, Band n66, 2110 - 2200 MHz, 256-QAM Modulation, Mid Channel, 2155 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.698	0	48.698	N/A		



Port 4, 5G NR, Band n66, 2110 - 2200 MHz, 256-QAM Modulation, Mid Channel, 2155 MHz					
Initial Value	Duty Cycle	Single Port	Four Port (4x4 MIMO)		
dBm/MHz	Factor (dB)	dBm/Carrier BW	Final Value		
48.468	0	48.468	N/A		



OUTPUT POWER - BAND n66 ALL PORTS



TxFtx 2022.05.02.0 XMit 2022.02.07.0

All Ports, 5G NR, Band n66, 2110 - 2200 MHz, 256-QAM Modulation, Mid Channel, 2155 MHz						
Initial Value		Duty Cycle		Single Port		Four Port (4x4 MIMO)
dBm/MHz		Factor (dB)		dBm/Carrier BW		Final Value
N/A		0		N/A		54.58

Ports	dBm Power	Watts Power	Total Watts Power	Total dBm Power
Port 1	48.48	70.45		
Port 2	48.59	72.24		
Port 3	48.70	74.10		
Port 4	48.47	70.27		
All Ports			287.07	54.58

PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMH 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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Spectrum Analyzer	Agilent Technologies, Inc.	N9020A	R316	2021-08-19	2023-08-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 24.232(d) and RSS 133 6.4, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

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 3 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.

PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022 02.07.0

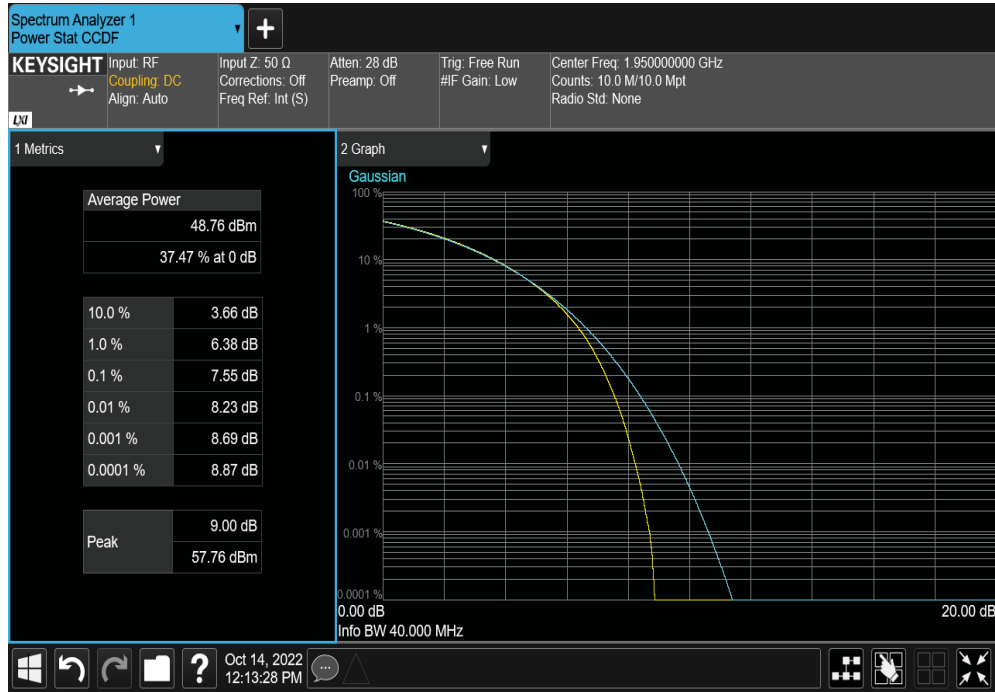
EUT: AHFII (FCC/ISED C2PC)		Work Order: NOKI0050	
Serial Number: K9181401111		Date: 18-Oct-22	
Customer: Nokia of America Corporation		Temperature: 21.6 °C	
Attendees: Mitchell Hill		Humidity: 29.2% RH	
Project: None		Barometric Pres.: 1029 mbar	
Tested by: Brandon Hobbs	Power: 54 VDC	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 24E:2022		Test Method	
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015	
ANSI C63.26:2015			
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	
		0.1% PAPR Value (dB)	PAPR Limit (dB) Results
Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR			
40 MHz Bandwidth			
QPSK Modulation			
	Low Channel, 1950 MHz	7.55	13 Pass
	Mid Channel, 1962.5 MHz	6.92	13 Pass
	High Channel, 1975 MHz	7.27	13 Pass
16-QAM Modulation			
	Low Channel, 1950 MHz	7.68	13 Pass
	Mid Channel, 1962.5 MHz	7.15	13 Pass
	High Channel, 1975 MHz	7.38	13 Pass
64-QAM Modulation			
	Low Channel, 1950 MHz	7.60	13 Pass
	Mid Channel, 1962.5 MHz	7.12	13 Pass
	High Channel, 1975 MHz	7.05	13 Pass
256-QAM Modulation			
	Low Channel, 1950 MHz	7.27	13 Pass
	Mid Channel, 1962.5 MHz	6.32	13 Pass
	High Channel, 1975 MHz	6.97	13 Pass

PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, Low Channel, 1950 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.55	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, Mid Channel, 1962.5 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				6.92	13	Pass

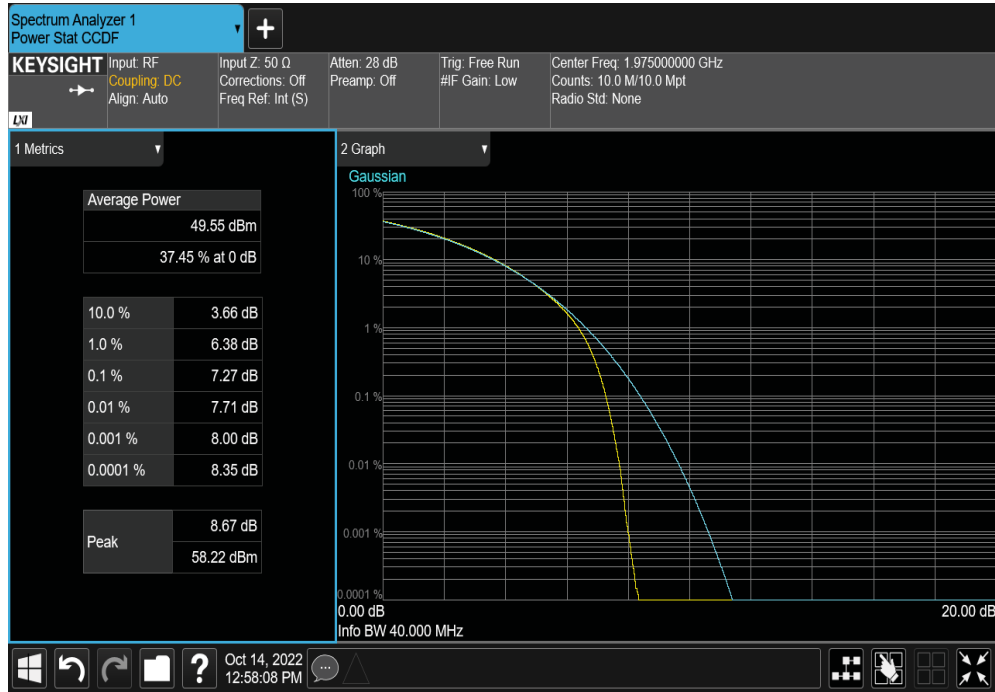


PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, High Channel, 1975 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.27	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, Low Channel, 1950 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.68	13	Pass

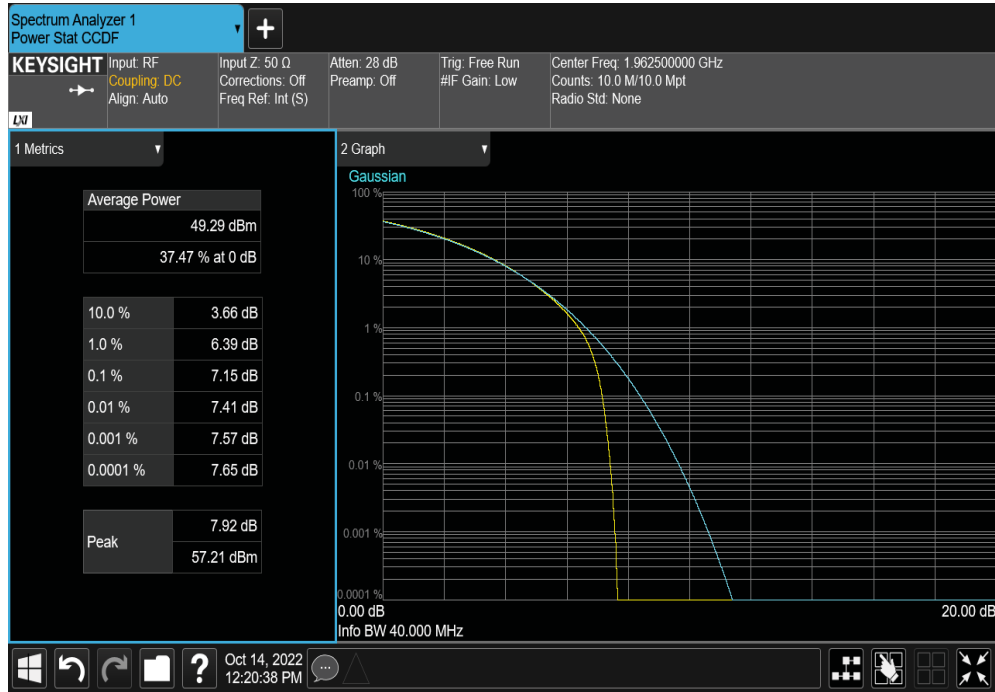


PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 1962.5 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.15	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, High Channel, 1975 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.38	13	Pass

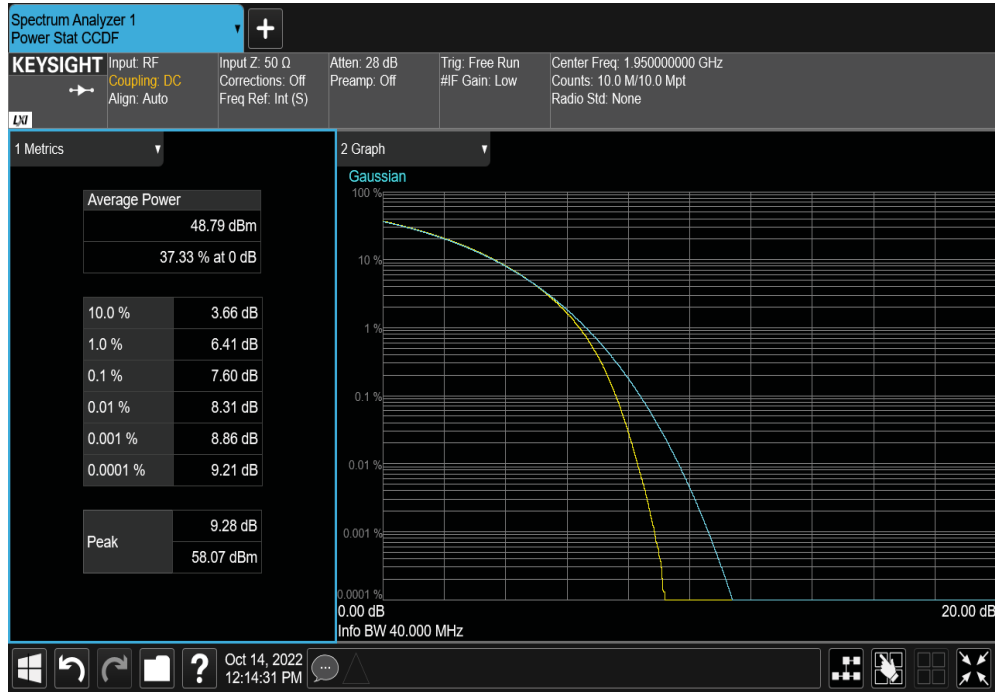


PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, Low Channel, 1950 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.6	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.12	13	Pass

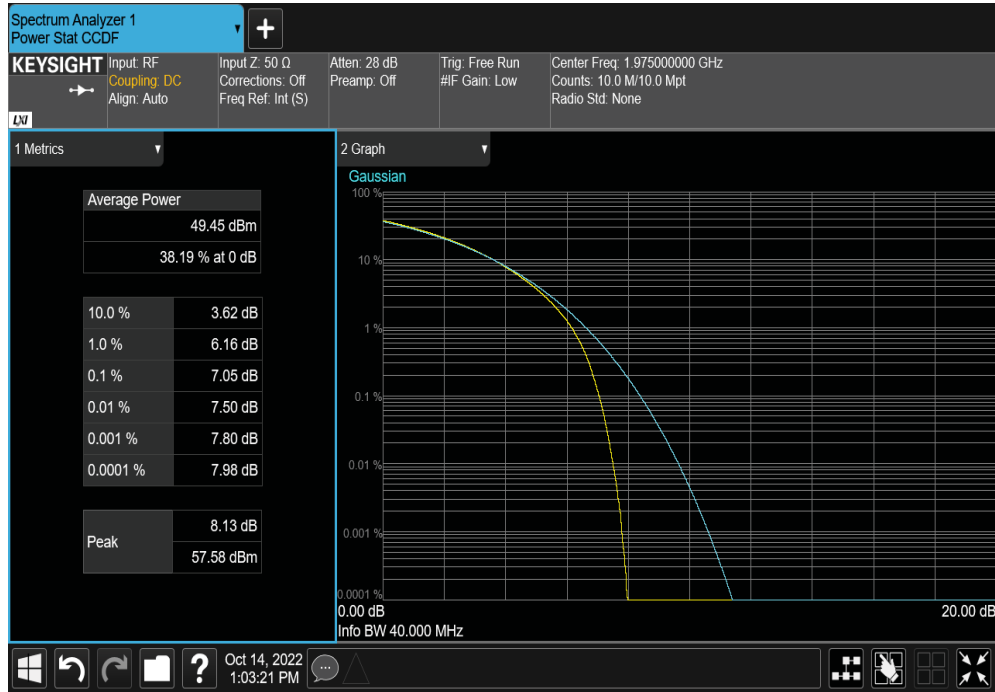


PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25

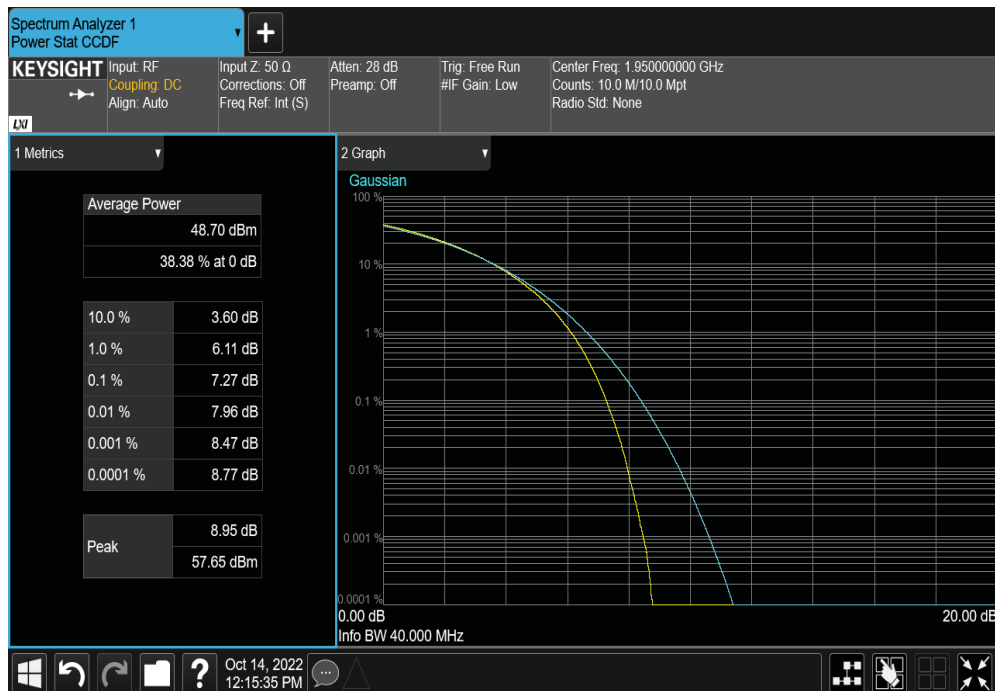


XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, High Channel, 1975 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.05	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, Low Channel, 1950 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.27	13	Pass

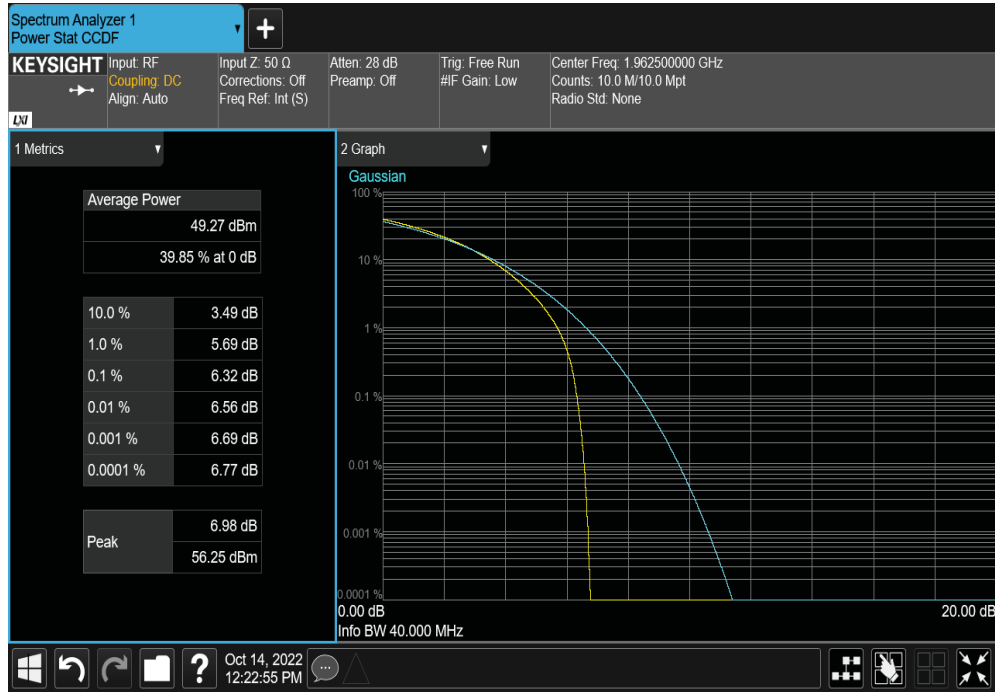


PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n25



XMIT 2022.02.07.0

Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				6.32	13	Pass



Port 3, Band n25, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, High Channel, 1975 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				6.97	13	Pass



PEAK TO AVERAGE (PAPR) CCDF - BAND n66



XMH 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Spectrum Analyzer	Agilent Technologies, Inc.	N9020A	R316	2021-08-19	2023-08-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5), RSS-139 6.5, the maximum peak-to-average power ratio (PAPR) is 13dB.

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 3 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.

PEAK TO AVERAGE (PAPR) CCDF - BAND n66



XMIT 2022.02.07.0

EUT:	AHFII (FCC/ISED C2PC)		Work Order:	NOKI0050	
Serial Number:	K9181401111		Date:	18-Oct-22	
Customer:	Nokia of America Corporation		Temperature:	20.1 °C	
Attendees:	Mitchell Hill		Humidity:	31% RH	
Project:	None		Barometric Pres.:	1029 mbar	
Tested by:	Brandon Hobbs	Power:	54 VDC	Job Site:	TX07
TEST SPECIFICATIONS			Test Method		
FCC 27:2022			ANSI C63.26:2015		
RSS-139 Issue 4:2022			ANSI C63.26:2015		
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 			
			0.1% PAPR Value (dB)	PAPR Limit (dB)	Results

Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR

40 MHz Bandwidth

QPSK Modulation

Low Channel, 2130 MHz	7.31	13	Pass
Mid Channel, 2155 MHz	7.11	13	Pass
High Channel, 2180 MHz	7.13	13	Pass

16-QAM Modulation

Low Channel, 2130 MHz	7.38	13	Pass
Mid Channel, 2155 MHz	7.14	13	Pass
High Channel, 2180 MHz	7.32	13	Pass

64-QAM Modulation

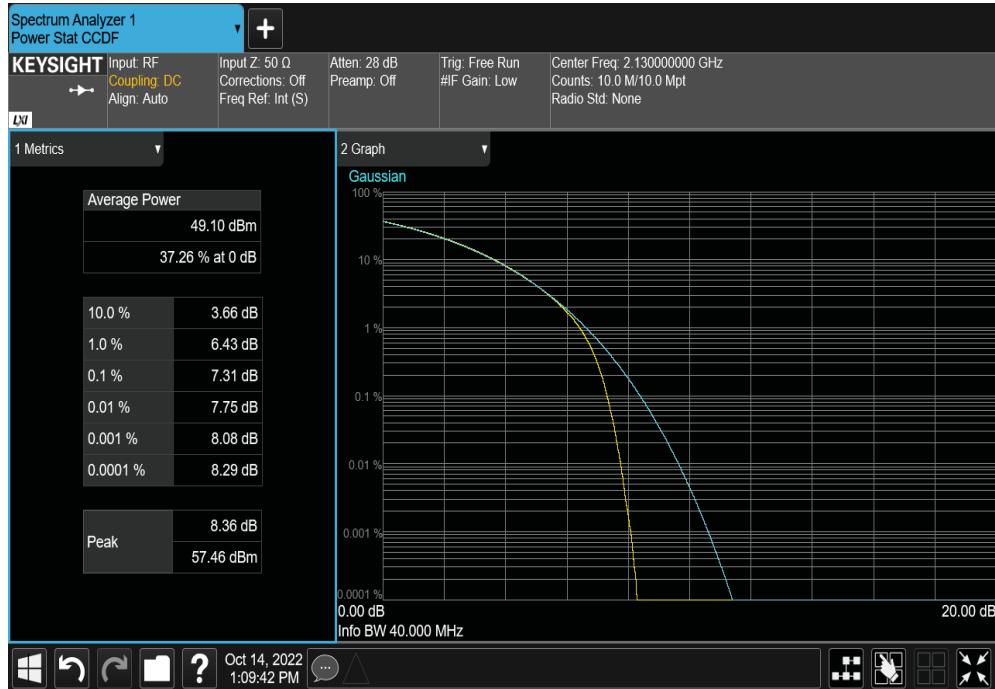
Low Channel, 2130 MHz	7.27	13	Pass
Mid Channel, 2155 MHz	7.10	13	Pass
High Channel, 2180 MHz	7.24	13	Pass

256-QAM Modulation

Low Channel, 2130 MHz	7.26	13	Pass
Mid Channel, 2155 MHz	7.11	13	Pass
High Channel, 2180 MHz	7.21	13	Pass

PEAK TO AVERAGE (PAPR) CCDF - BAND n66

Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, Low Channel, 2130 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.31	13	Pass



Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, Mid Channel, 2155 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.11	13	Pass

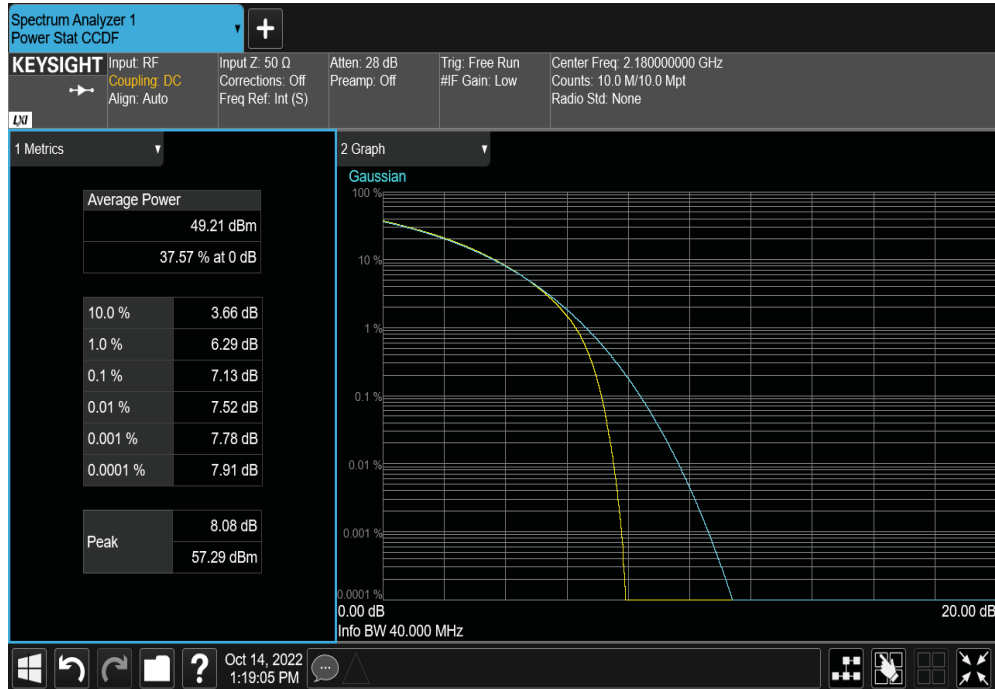


PEAK TO AVERAGE (PAPR) CCDF - BAND n66

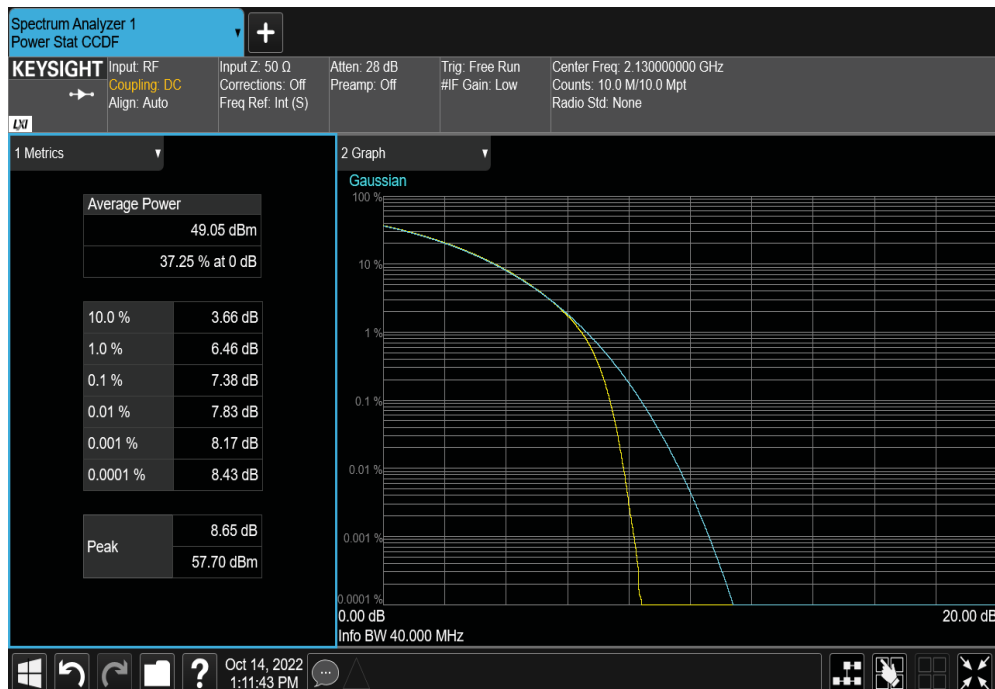


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Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, QPSK Modulation, High Channel, 2180 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.13	13	Pass

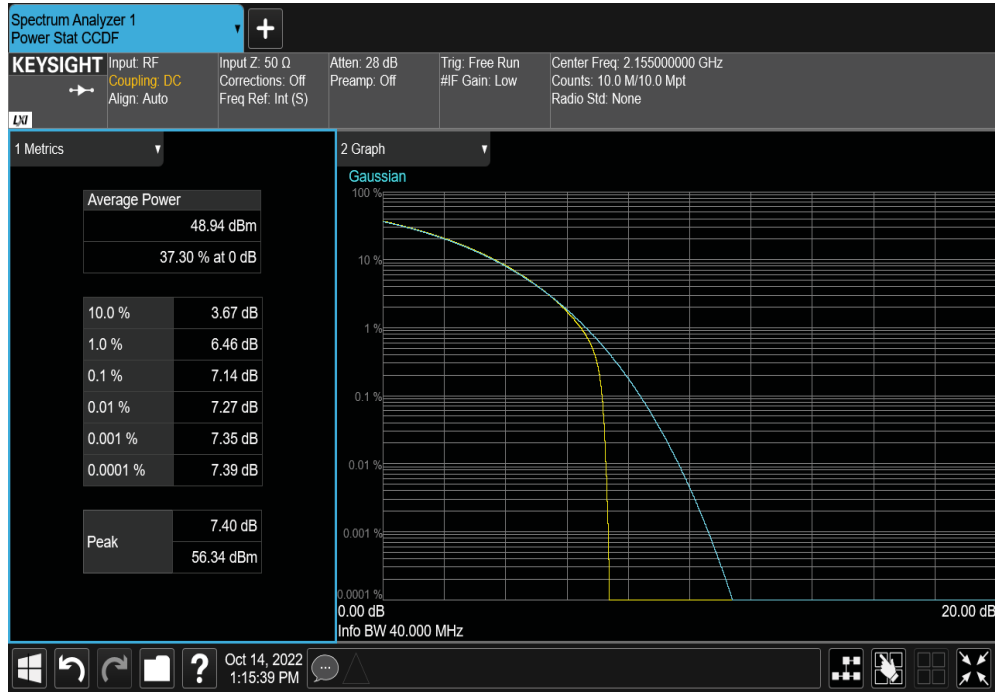


Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, Low Channel, 2130 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.38	13	Pass



PEAK TO AVERAGE (PAPR) CCDF - BAND n66

Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, Mid Channel, 2155 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.14	13	Pass



Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 16-QAM Modulation, High Channel, 2180 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.32	13	Pass

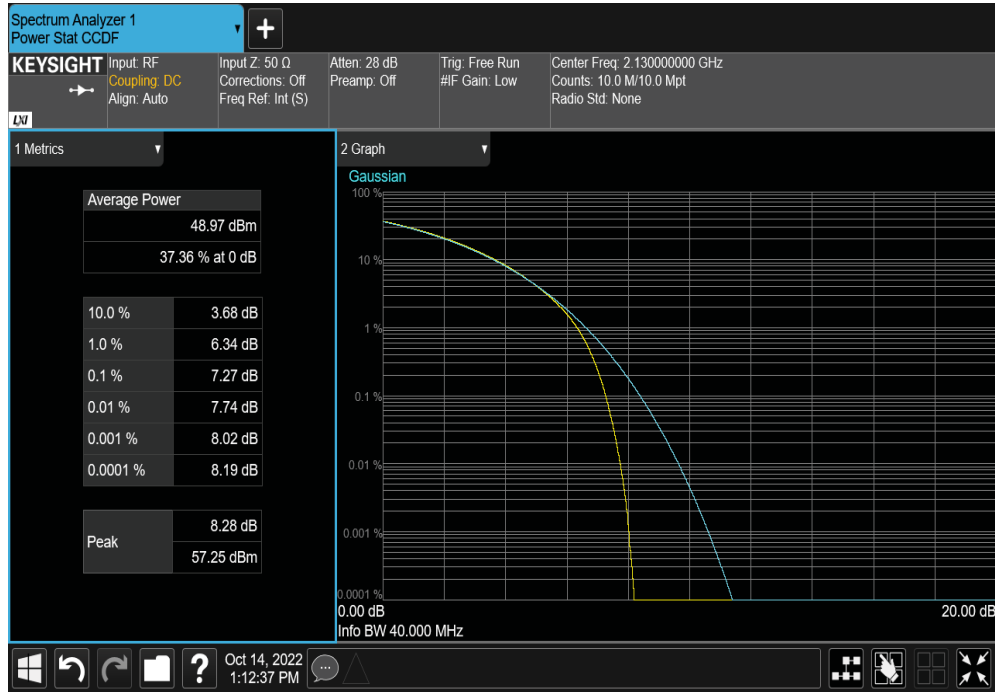


PEAK TO AVERAGE (PAPR) CCDF - BAND n66



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Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, Low Channel, 2130 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.27	13	Pass

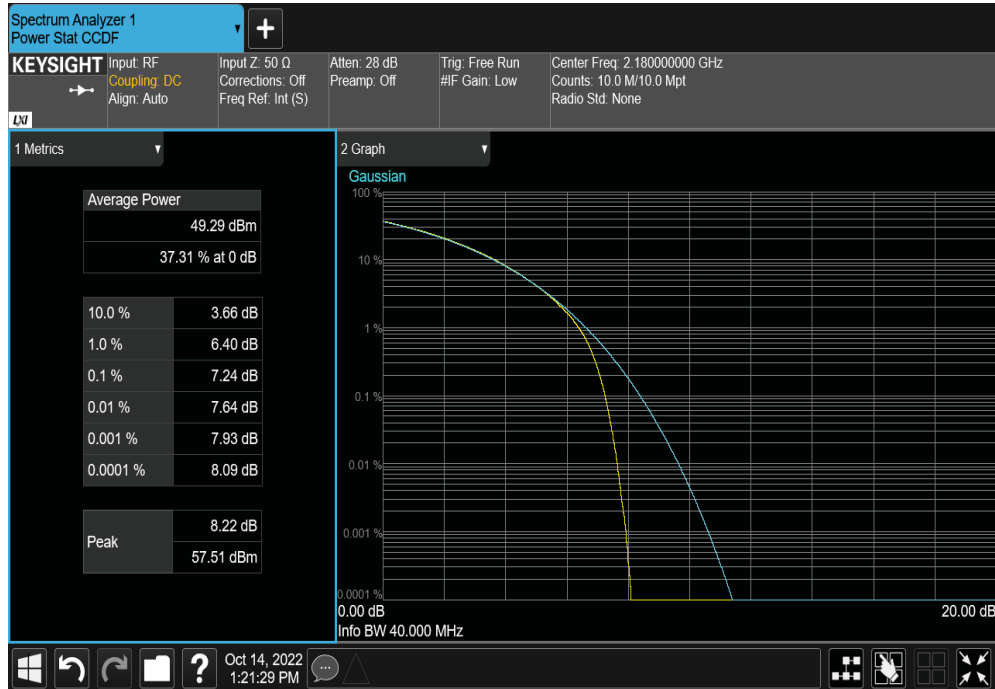


Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, Mid Channel, 2155 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.1	13	Pass



PEAK TO AVERAGE (PAPR) CCDF - BAND n66

Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 64-QAM Modulation, High Channel, 2180 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.24	13	Pass

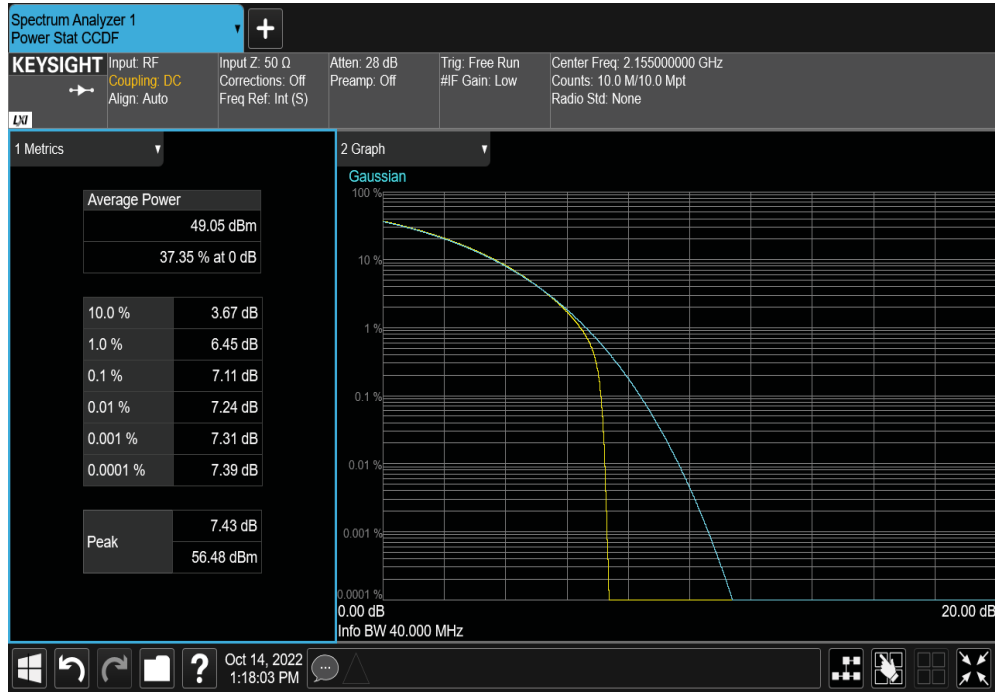


Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, Low Channel, 2130 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.26	13	Pass



PEAK TO AVERAGE (PAPR) CCDF - BAND n66

Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, Mid Channel, 2155 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.11	13	Pass



Port 3, Band n66, 1930 MHz - 1995 MHz, 5G NR, 40 MHz Bandwidth, 256-QAM Modulation, High Channel, 2180 MHz						
				0.1% PAPR Value (dB)	PAPR Limit (dB)	Results
				7.21	13	Pass

