

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

#### **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 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.

AHLBBA antenna ports 1&4 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.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 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



EUT: AHLBBA (C2PC/C3PC FCC/ISED) Work Order: NOKI0047 Serial Number: K9193514835 Date: 30-Jul-22 Temperature: 21.2 °C
Humidity: 53.5% RH
Barometric Pres.: 1018 mba Customer: Nokia of America Corporation Attendees: Mitchell Hill Project: None Tested by: Marty Martin Job Site: TX07 RSS-130 Issue 2: 2019 COMMENTS All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. The total output power for multiport (2x2, 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)] and the total output power for a four port operation is single port power + 6dB [i.e. 10log(4)]. DEVIATIONS FROM TEST STANDARD Configuration # Marti Signature Two Port (2x2 MIMO) Four Port (4x4 MIMO) Single Port **Duty Cycle** dBm/Carrier BW Factor (dB) dBm/MHz dBm/Carrier BW dBm/Carrier BW Band n12, 729 - 745 Mhz 5 MHz Bandwidth Mid Channel, 737.0 MHz 49.062 0 49.0 52.0 55.0 16QAM Modulation Mid Channel, 737.0 MHz 64QAM Modulation Mid Channel, 737.0 MHz 49.087 49.1 52.1 55.1 256QAM Modulation Low Channel, 731.5 MHz Mid Channel, 737.0 MHz High Channel, 742.5 MHz 49.097 49.111 52.1 52.1 55.1 55.1 49.1 49.1 55.1 49.076 52.1 10 MHz Bandwidth 256QAM Modulation Low Channel, 734 MHz 49.069 0 49.1 52.1 55.1 Mid Channel, 737.0 MHz High Channel, 740 MHz 49.066 48.975 49.1 49.0 52.1 52.0 15 MHz Bandwidth 256QAM Modulation Low Channel, 736.5 MHz 49.052 49.1 52.1 55.1 Mid Channel, 737.0 MHz High Channel, 737.5 MHz 49 02 49 0 52.0 52.0 55.0 Port 2 Band n12, 729 - 745 Mhz 5 MHz Bandwidth **QPSK Modulation** Mid Channel, 737.0 MHz 16QAM Modulation 49.041 0 49.0 52.0 55.0 Mid Channel, 737.0 MHz 48.817 0 48.8 51.8 54.8 64QAM Modulation
Mid Channel, 737.0 MHz 49.019 49.0 52.0 55.0 256QAM Modulation Low Channel, 731.5 MHz Mid Channel, 737.0 MHz 49.0 49.0 52.0 52.0 48.965 55.0 High Channel, 742.5 MHz 48.994 49.0 52.0 55.0 10 MHz Bandwidth 256QAM Modulation Low Channel, 734 MHz Mid Channel, 737.0 MHz 48.933 48.963 48.9 49.0 54.8 55.0 51.8 52.0 High Channel, 740 MHz 48.916 48.9 51.9 54.9 15 MHz Bandwidth 256QAM Modulation Low Channel, 736.5 MHz Mid Channel, 737.0 MHz High Channel, 737.5 MHz 48 882 48.9 51.9 54.9 48.848 48.912 54.8 54.9

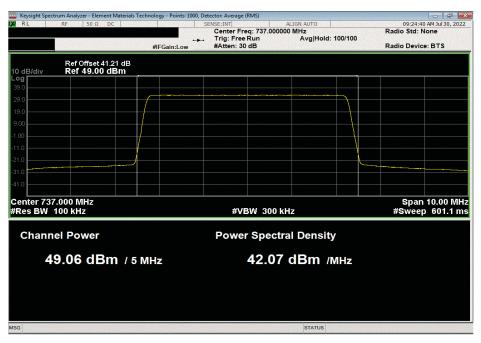


Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz

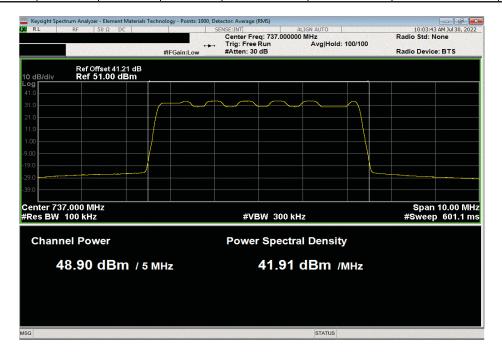
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW

49.062 0 49.1 52.1 55.1

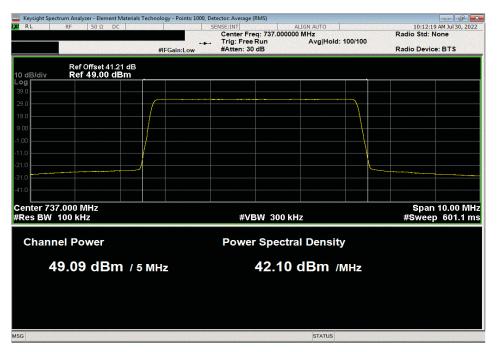


	Port 1, Bar	nd n12, 729 - 745	Mhz, 5 MHz Bandwidth	n, 16QAM Modulation, Mi	d Channel, 737.0 MHz	
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
	48.897		48.9	54.0	54.9	1

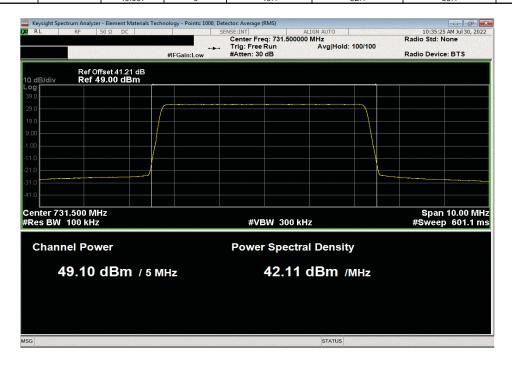




Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW
49.087 0 49.1 52.1 55.1

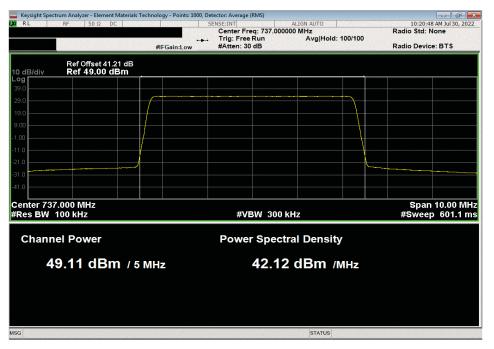


Port 1, Band	n12, 729 - 745 M	lhz, 5 MHz Bandwidth, 2	256QAM Modulation, Low	Channel, 731.5 MHz	
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
49 097	0	49.1	52 1	55 1	

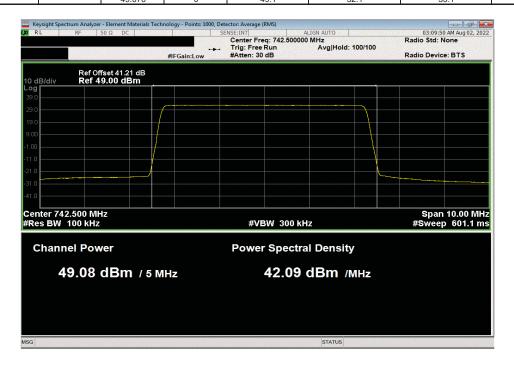




Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW
49.111 0 49.1 52.1 55.1



Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 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					
49.076	Λ	49.1	52.1	55.1					

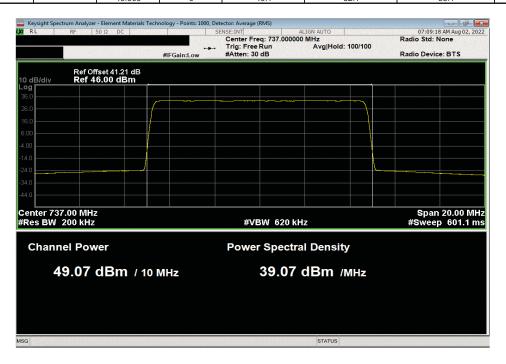




Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW
49.069 0 49.1 52.1 55.1

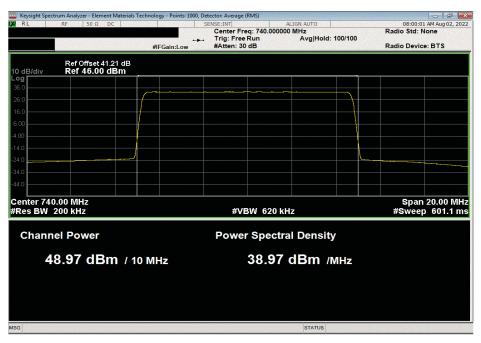


Port 1, Band	n12, 729 - 745 M	hz, 10 MHz Bandwidth	n, 256QAM Modulation, Mi	d Channel, 737.0 MHz	
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
49 066	0	49.1	52 1	55.1	

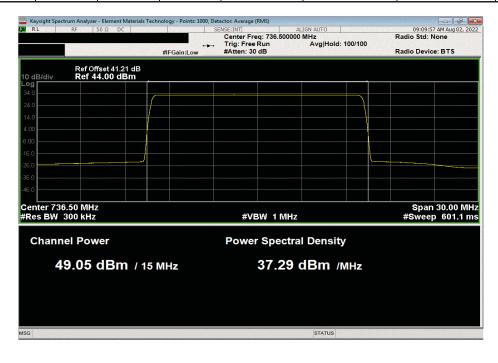




Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW
48.975 0 49 52 55

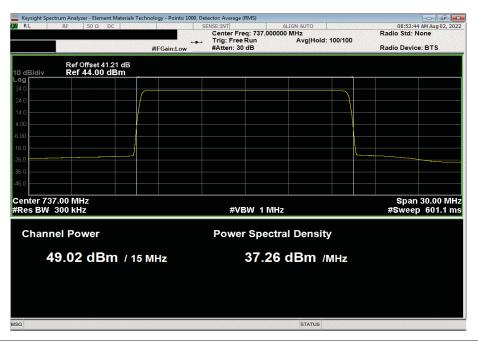


	Port 1, Band	n12, 729 - 745 N	hz, 15 MHz Bandwidth	n, 256QAM Modulation, Lo	w Channel, 736.5 MHz	
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
	49.052	0	49.1	52.1	55.1	

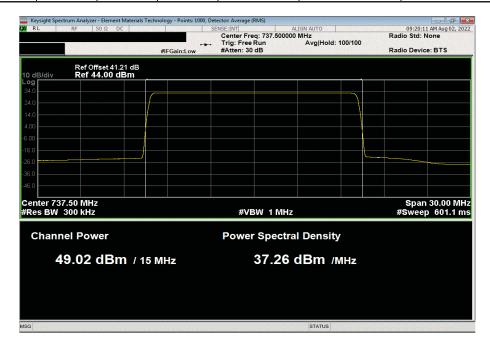




Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW
49.02 0 49 52 55



Port 1, Ban	d n12, 729 - 745	Mhz, 15 MHz Bandwid	th, 256QAM Modulation, High	h Channel, 737.5 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	
49.023	0	49	52	55	ı



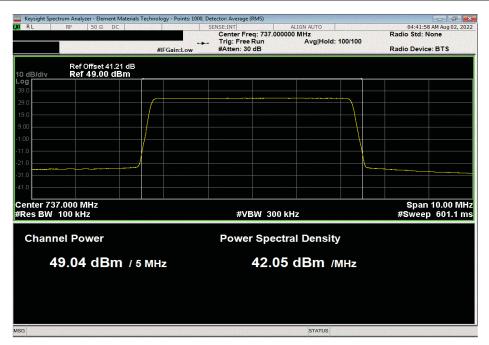


Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz

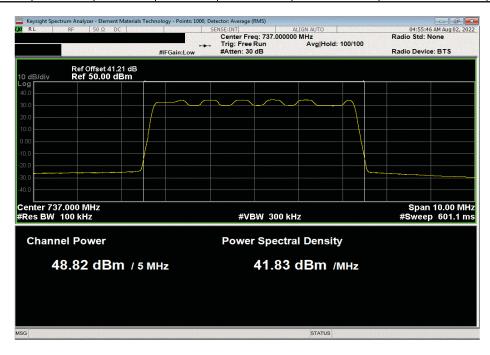
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW Results

49.041 0 49 52 55



Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 737.0 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	Results				
	48.817	0	48.8	51.8	54.8					

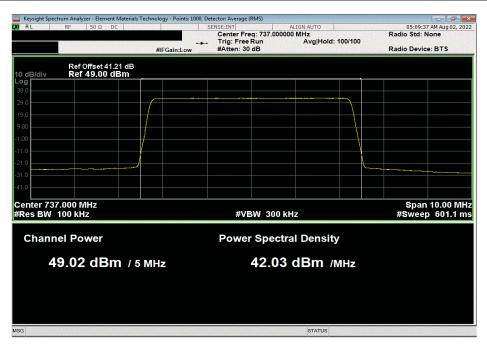




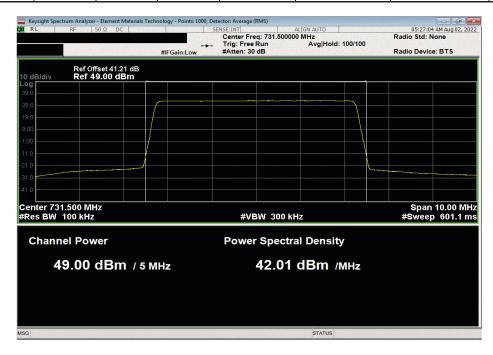
Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW Results

49.019 0 49 52 55



Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 731.5 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	Results				
	49.003	0	49	52	55					

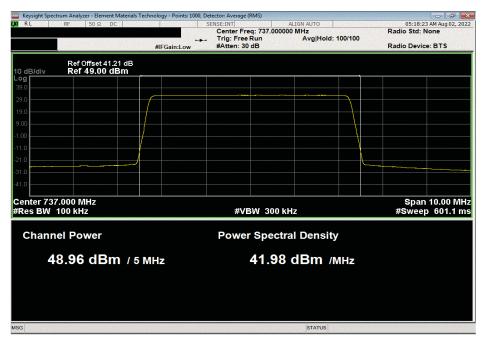




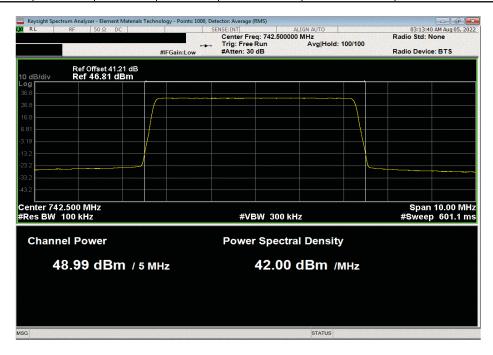
Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW Results

48.965 0 49 52 55

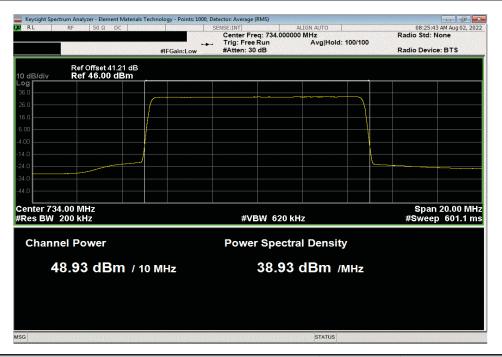


Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 MHz										
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)					
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	Results				
	48.994	0	49	52	55					

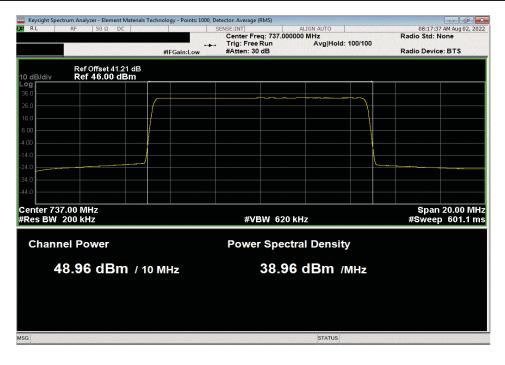




	D 10 D 1	40 700 745 N	40 MIL D. 1 1111	05004444 114	01 1 704 1411	
	Port 2, Band I	n 12, 729 - 745 Mi	nz, nu ivimz Bandwidti	n, 256QAM Modulation, L	ow Channel, 734 MHZ	
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	Results
	48.933	0	48.9	51.8	54.8	

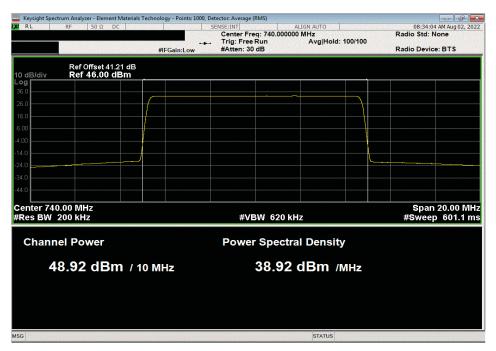


Port 2, Band r	n12, 729 - 745 Mh	z, 10 MHz Bandwidth	ı, 256QAM Modulation, M	lid Channel, 737.0 MHz	
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	Results
48.963	0	49	52	55	

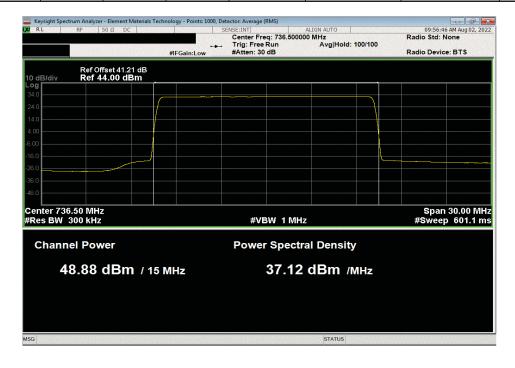




Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO) Initial Value **Duty Cycle** dBm/MHz dBm/Carrier BW Factor (dB) dBm/Carrier BW dBm/Carrier BW Results 48.916 48.9 51.9 54.9



Port 2, Band	n12, 729 - 745 M	hz, 15 MHz Bandwidt	h, 256QAM Modulation, Lo	w Channel, 736.5 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	Results
48 882	0	48.9	51.9	54 9	

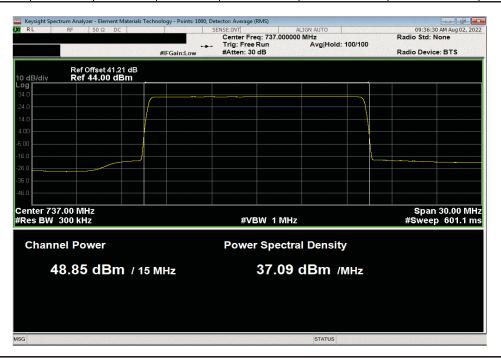




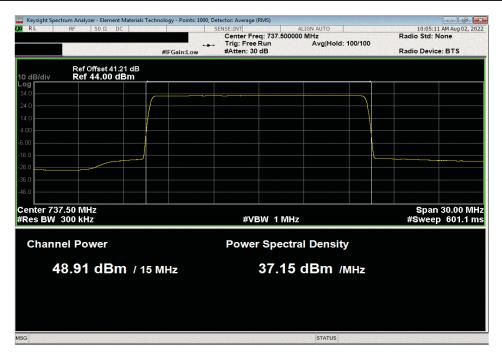
Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW Results

48.848 0 48.8 51.8 54.8



Port 2, Band n'	I2, 729 - 745 Mhz	z, 15 MHz Bandwidth,	256QAM Modulation, High	gh Channel, 737.5 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	Results
48.912	0	48.9	51.0	54.9	





XMit 2022.02.07.0

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#### **TEST EQUIPMENT**

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

#### **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 measurement. This method uses trace averaging across 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, to the measured power to compute the average power during the actual transmission times.

AHLBBA antenna ports 1&4 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.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 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



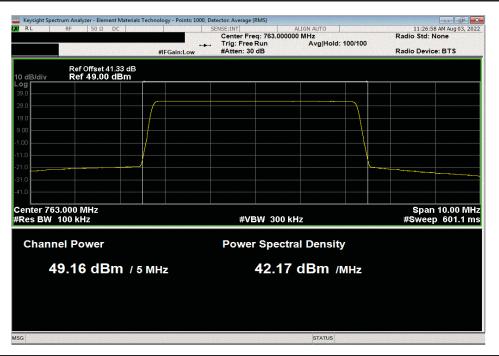
							TbtTx 2022.05.02.0 XMit 2022.
EUT:	AHLBBA (C2PC/C3PC I	FCC/ISED)				Work Order:	NOKI0047
Serial Number:	K9193514835	•				Date:	4-Aug-22
Customer:	Nokia Solutions and No	etworks				Temperature:	21.8 °C
Attendees:	Mitchell Hill					Humidity:	52.9% RH
Project:	None					Barometric Pres.:	1018 mbar
Tested by:	Marty Martin	Pov	ver: 54VDC			Job Site:	TX07
EST SPECIFICAT	TIONS	·	Test Method				
SS 140 Issue 1: 2	2018		ANSI C63.26:2015				
CC 90R:2022			ANSI C63.26:2015				
		ated for in the reference level offset including attenua					
		letermined based upon ANSI 63.26 clauses 6.4.3.1 and	a 6.4.3.2.4 (10 log Nout)	i ne totai outpu	t power for two port	operation is single pol	rt power + 3dB [i.e. 10log(2)] and the
	r for a four port operation M TEST STANDARD	n is single port power + 6dB [i.e. 10log(4)].					
	M IESI SIANDARD						
lone							
Configuration #	2	Signature Mostly	Marti				
			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
ort 1							
	Band n14, 758 - 768 Mh: 5 MHz Ban		49.157	0	49.2	52.2	55.2
		16QAM Modulation	40.107		40.2	UL.L	55.2
		Mid Channel, 763 MHz	48.931	0	48.9	51.9	54.9
		64QAM Modulation	40.301		40.0	01.0	04.0
		Mid Channel, 763 MHz	49,225	0	49.2	52.2	55.2
		256QAM Modulation	49.223	0	43.2	32.Z	55.2
		Mid Channel, 763 MHz	49.200	0	49.2	52.2	55.2
		High Channel, 765.5 MHz	48.993	0	49.0	52.0	55.0
	10 MHz Ba		40.993	0	43.0	32.0	33.0
		Mid Channel, 763 MHz	48.904	0	48.9	51.9	54.9
ort 2	Band n14, 758 - 768 Mh. 5 MHz Ban						
		Mid Channel, 763 MHz	49.035	0	49.0	52.0	55.0
		16QAM Modulation					
		Mid Channel, 763 MHz	48.827	0	48.8	51.8	54.8
		64QAM Modulation					
		Mid Channel, 763 MHz	49.020	0	49.0	52.0	55.0
		256QAM Modulation					
		Low Channel, 760.5 MHz	49.016	0	49.0	52.0	55.0
		Mid Channel, 763 MHz	48.996	0	49.0	52.0	55.0
		High Channel, 765.5 MHz	48.910	0	48.9	51.9	54.9
	10 MHz Ba						
		Mid Channel, 763 MHz	48.937	0	48.9	51.9	54.9



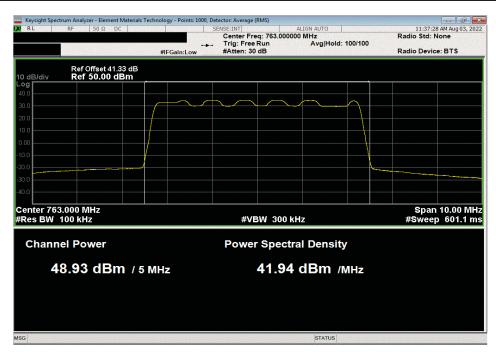
Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW

49.157 0 49.2 52.2 55.2



	Port 1, Band	n14, 758 - 768 N	1hz, 5 MHz Bandwidtl	h, 16QAM Modulation, M	id Channel, 763 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	
l [	48.931	0	48.9	51.9	54.9	





Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 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

49.225 0 49.2 52.2 55.2



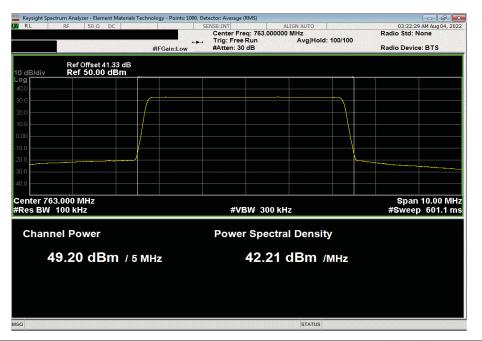


Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz

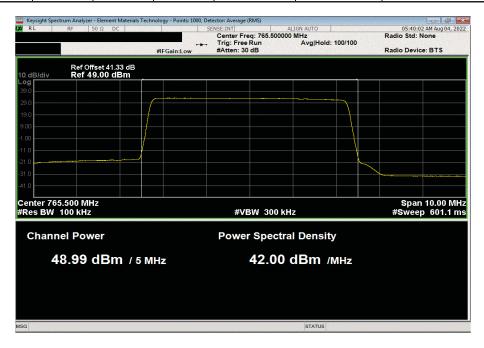
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW

49.2 0 49.2 52.2 55.2



Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 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						
48.993	0	49	52	55						



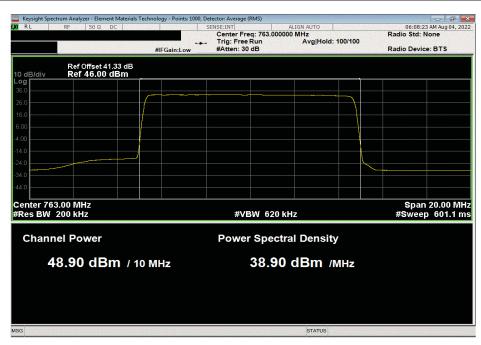


Port 1, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz

Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)

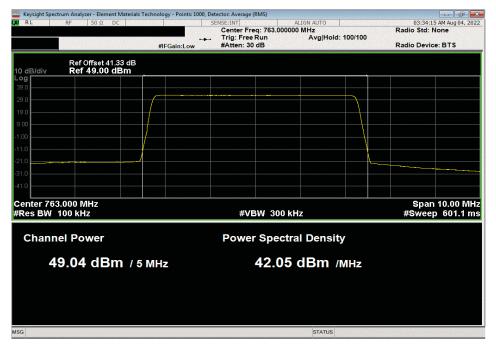
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW dBm/Carrier BW

48.904 0 48.9 51.9 54.9

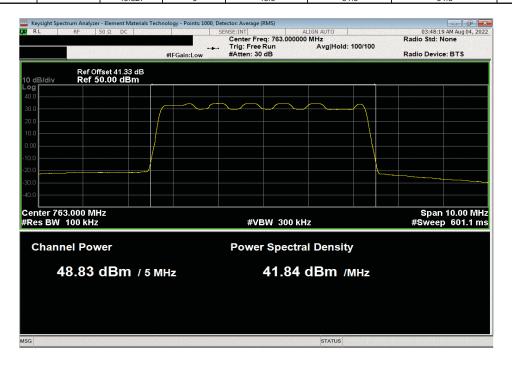




Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW
49.035 0 49 52 55

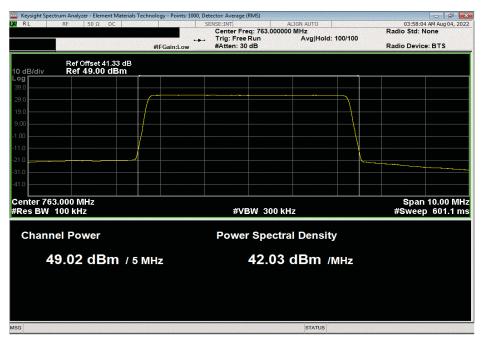


Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz										
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)					
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW					
	48 827	0	48.8	51.8	54.8					

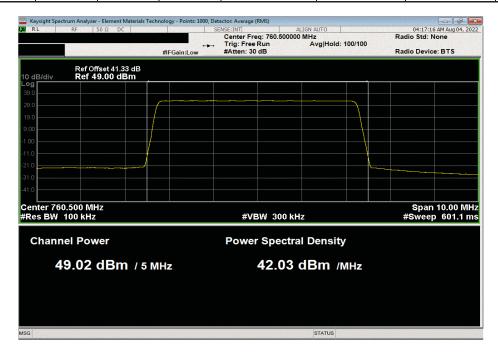




Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW
49.02 0 49 52 55



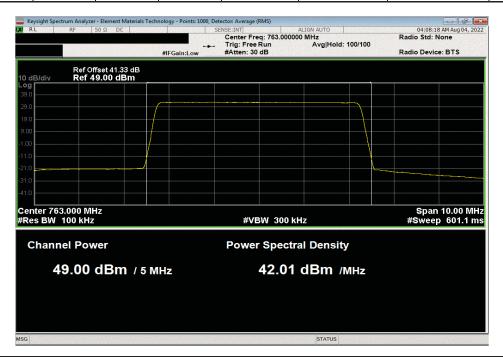
Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 760.5 MHz									
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)				
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW				
	49.016	0	49	52	55				



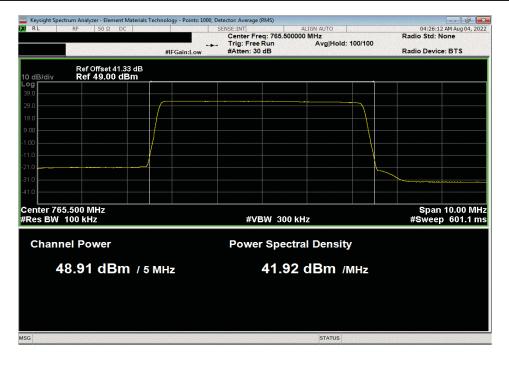


Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz
Initial Value Duty Cycle Single Port Two Port (2x2 MIMO) Four Port (4x4 MIMO)
dBm/MHz Factor (dB) dBm/Carrier BW dBm/Carrier BW

48.996 0 49 52 55

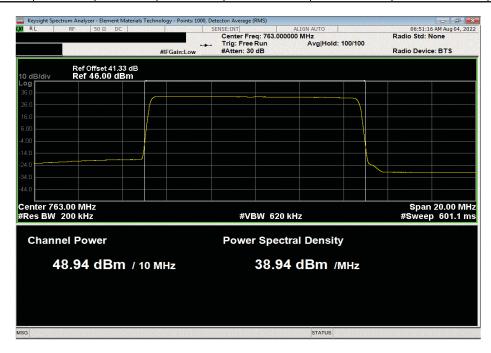


Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MHz										
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)					
	dBm/MHz	Factor (dB)	dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW					
	48.91	0	48.9	51.9	54.9					





Port 2, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 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 dBm/Carrier BW





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

#### **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 measurement. This method uses trace averaging across 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, to the measured power to compute the average power during the actual transmission times.

AHLBBA antenna ports 1&4 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.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 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.

#### Multi-carrier Test Cases:

Test Case 1 (3GPP Band n12 Multicarrier): Three NR 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band (731.5MHz & 736.5MHz) and a third carrier with maximum spacing between the other two carrier frequencies (742.5MHz) at the upper band edge. The NR 5Mhz channel bandwidth was selected to maximize carrier power spectral density. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12 carriers).

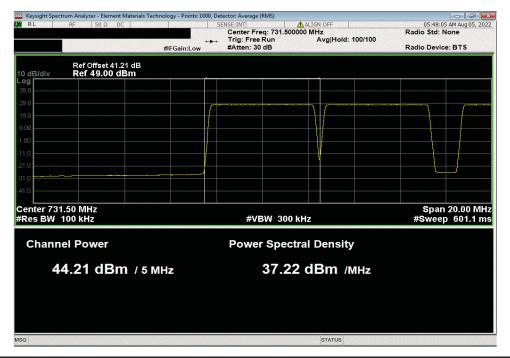
Test Case 2 (3GPP Band n12 and Band n14 Multicarrier/Multiband): In the Band n12 \_ Two NR 5MHz carriers at the lower band edge (731.5 & 736.5MHz). In Band n14 \_ one NR 5MHz carrier at the upper band edge 765.5MHz. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12/n14 carriers).



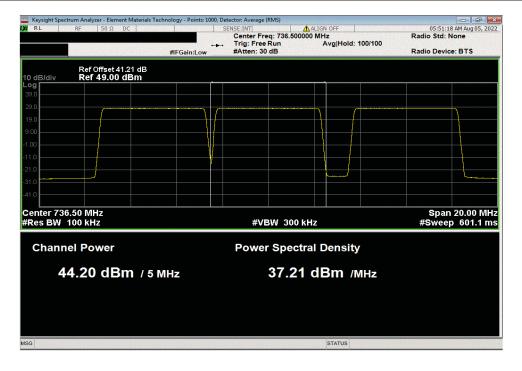
	AHLBBA (C2PC/C3PC	FCC/ISED)						Work Order:		
Serial Number:									5-Aug-22	
	Nokia Solutions and No	etworks						Temperature:		
	Mitchell Hill								61.4% RH	
Project:								Barometric Pres.:		
	Marty Martin			Power:				Job Site:	TX07	
EST SPECIFICATI	IONS				Test Method					
CC 27:2022					ANSI C63.26:2015					
CC 90R:2022				,	ANSI C63.26:2015					
RSS-130 Issue 2:20	119 and RSS 140 Issue	1: 2018		,	ANSI C63.26:2015					
COMMENTS										
		nted for in the reference al port power of 80 watts		luding attenuators,	cables, DC block	and filter when in use.	Band n12 and Band	d n14 carriers wer	e operating at maxin	ium power i
	I TEST STANDARD									
lone		ī								
Configuration #	2	Signature	110	costy 1	Marta					
		O.g.nata.n		Avg Cond Initial Pwr (dBm)	Duty Cycle Factor (dB)	Avg Cond Carrier Pwr (dBm)	Avg Cond Band Pwr (dBm)	Avg Cond Port Pwr (dBm)	Limit (dBm)	Results
ort 1 5G NR Multi-	-Carrier Test Case 1				1 00001 (0.2)				(**=***)	110001110
	ourner root oddo r									
	Band n12, 729 - 745 Mh	z								
	Band n12, 729 - 745 Mh 5 MHz Ban									
	Band n12, 729 - 745 Mh 5 MHz Ban									
		dwidth QPSK Modulation	nel. 731.5 MHz	44.206	0	44.2	N/A	N/A	Within Tolerance	Pass
		dwidth  QPSK Modulation  Low Chan	nel, 731.5 MHz nel, 736.5 MHz	44.206 44.201	0	44.2 44.2	N/A N/A	N/A N/A	Within Tolerance Within Tolerance	Pass Pass
		dwidth  QPSK Modulation  Low Chan  Low Chan	nel, 736.5 MHz	44.201		44.2	N/A	N/A	Within Tolerance	Pass
ort 2, 5G NR, Multi-		dwidth  QPSK Modulation  Low Chan  Low Chan  High Char		44.201	0					
ort 2, 5G NR, Multi-	5 MHz Ban -Carrier Test Case 1 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan  Low Chan  High Char  z  dwidth  QPSK Modulation	nel, 736.5 MHz inel, 742.5 MHz	44.201 44.116	0 0	44.2 44.1	N/A N/A	N/A N/A	Within Tolerance Within Tolerance	Pass Pass
ort 2, 5G NR, Multi-	5 MHz Ban -Carrier Test Case 1 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan  Low Chan  High Char  z  dwidth  QPSK Modulation	nel, 736.5 MHz	44.201	0	44.2	N/A	N/A	Within Tolerance	Pass
ort 2, 5G NR, Multi-	5 MHz Ban -Carrier Test Case 1 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan Low Chan High Char  z dwidth  QPSK Modulation Low Chan Low Chan	nel, 736.5 MHz inel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz	44.201 44.116 43.899 44.092	0 0	44.2 44.1 43.9 44.1	N/A N/A N/A N/A	N/A N/A N/A N/A	Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance	Pass Pass Pass Pass
ort 2, 5G NR, Multi	5 MHz Ban -Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  z dwidth  QPSK Modulation Low Chan Low Chan	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz	44.201 44.116 43.899 44.092	0 0	44.2 44.1 43.9	N/A N/A	N/A N/A	Within Tolerance Within Tolerance Within Tolerance	Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi-	5 MHz Ban  -Carrier Test Case 1  Band n12, 729 - 745 Mh  5 MHz Ban  -Carrier Test Case 2	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z dwidth  QPSK Modulation Low Chan Low Chan High Char z, Band n14 758 - 768 Mł	nel, 736.5 MHz inel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz inel, 742.5 MHz	44.201 44.116 43.899 44.092	0 0	44.2 44.1 43.9 44.1	N/A N/A N/A N/A	N/A N/A N/A N/A	Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance	Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan Low Chan High Char  z  dwidth QPSK Modulation Low Chan High Char z, Band n14 758 - 768 Md dwidth QPSK Modulation	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz	44.201 44.116 43.899 44.092 44.144	0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance	Pass Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan Low Chan High Char  z dwidth QPSK Modulation Low Chan High Char z, Band n14 758 - 768 Mt dwidth QPSK Modulation Low Chan	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz dz	44.201 44.116 43.899 44.092 44.144	0 0 0 0 0	44.2 44.1 43.9 44.1 44.1	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance	Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z dwidth  QPSK Modulation Low Chan Low Chan High Char  z, Band n14 758 - 768 Midwidth  QPSK Modulation Low Chan Low Chan Low Chan Low Chan Low Chan Low Chan	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz dz	44.201 44.116 43.899 44.092 44.144 44.478 44.478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Within Tolerance	Pass Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi ort 1, 5G NR, Multi	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z dwidth  QPSK Modulation Low Chan Low Chan High Char  z, Band n14 758 - 768 Midwidth  QPSK Modulation Low Chan Low Chan Low Chan Low Chan Low Chan Low Chan	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz dz	44.201 44.116 43.899 44.092 44.144 44.478 44.478	0 0 0 0 0	44.2 44.1 43.9 44.1 44.1	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance Within Tolerance	Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi- ort 2, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z dwidth QPSK Modulation Low Chan High Char  Z, Band n14 758 - 768 Midwidth QPSK Modulation Low Chan Low Chan High Char  Z, Band n14 758 - 768 Midwidth Augher Char Low Chan High Char  12, Band n14 758 - 768 Midwidth	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz lnel, 742.5 MHz dz nel, 731.5 MHz nel, 736.5 MHz nel, 736.5 MHz nel, 736.5 MHz nel, 736.5 MHz	44.201 44.116 43.899 44.092 44.144 44.478 44.478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Within Tolerance	Pass Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi- ort 2, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  z  dwidth  QPSK Modulation Low Chan Low Chan High Char  z, Band n14 758 - 768 Mł dwidth  QPSK Modulation Low Chan Low Chan High Char  Low Chan High Char  Low Chan High Char  12, Band n14 758 - 768 Mł dwidth  QPSK Modulation	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz dz nel, 731.5 MHz nel, 736.5 MHz nel, 736.5 MHz nel, 736.5 MHz	44.201 44.116 43.899 44.092 44.144 44.478 44.431 43.737	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1 44.5 44.5 44.4	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	Within Tolerance	Pass Pass Pass Pass Pass Pass Pass Pass
ort 2, 5G NR, Multi- ort 1, 5G NR, Multi- ort 2, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z  dwidth QPSK Modulation Low Chan High Char  Z, Band n14 758 - 768 Mdwidth QPSK Modulation Low Chan Low Chan High Char  Z, Band n14 758 - 768 Mdwidth QPSK Modulation Low Chan Low Chan High Char  Low Chan Low Chan High Char  Dow Chan  Dow Chan  Low Chan Low Chan Low Chan Low Chan Low Chan Low Chan Low Chan Low Chan  Low Chan	nel, 736.5 MHz nel, 731.5 MHz nel, 731.5 MHz nel, 736.5 MHz iz nel, 731.5 MHz iz nel, 731.5 MHz nel, 735.5 MHz Hz nel, 735.5 MHz Hz	44.201 44.116 43.899 44.092 44.144 44.478 44.478 44.478 43.737	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1 44.5 44.4 43.7	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	Within Tolerance	Pass Pass Pass Pass Pass Pass Pass Pass
Port 2, 5G NR, Multi- Port 1, 5G NR, Multi-	-Carrier Test Case 1 Band n12, 729 - 745 Mh 5 MHz Ban -Carrier Test Case 2 Band n12, 729 - 745 Mh 5 MHz Ban	dwidth  QPSK Modulation  Low Chan Low Chan High Char  Z dwidth  QPSK Modulation Low Chan High Char  Z, Band n14 758 - 768 Md dwidth  QPSK Modulation Low Chan Low Chan High Char  12, Band n14 758 - 768 Md dwidth QPSK Modulation Low Chan	nel, 736.5 MHz nel, 742.5 MHz nel, 731.5 MHz nel, 736.5 MHz nel, 742.5 MHz dz nel, 731.5 MHz nel, 736.5 MHz nel, 736.5 MHz nel, 736.5 MHz	44.201 44.116 43.899 44.092 44.144 44.478 44.431 43.737 43.708 43.903	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.2 44.1 43.9 44.1 44.1 44.5 44.5 44.4	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	Within Tolerance	Pass Pass Pass Pass Pass Pass Pass Pass



Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz Avg Cond **Duty Cycle** Avg Cond Avg Cond Avg Cond Limit Initial Pwr (dBm Factor (dB) Carrier Pwr (dBm) Band Pwr (dBm) Port Pwr (dBm) (dBm) Results 44.206 N/A Within Tolerance

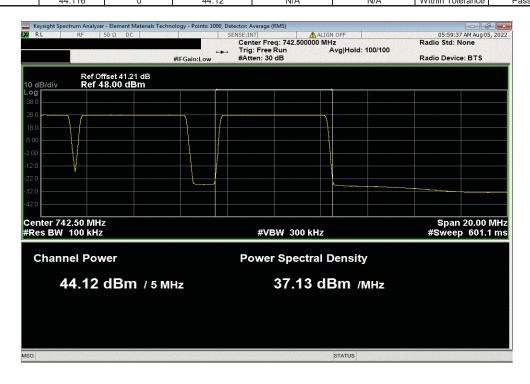


Port 1, 5G NR	, Multi-Carrier Te	est Case 1, Band n12,	729 - 745 Mhz, 5 MHz	Bandwidth, QPSK N	Modulation, Low Chann	el, 736.5 MHz	
Avg Cond	Duty Cycle	Avg Cond	Avg Cond	Avg Cond	Limit		
Initial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results	
44.201	0	44.2	N/A	N/A	Within Tolerance	Pass	



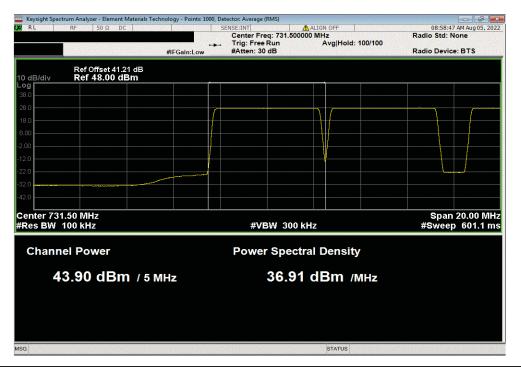


Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz Avg Cond **Duty Cycle** Avg Cond Avg Cond Avg Cond Limit Carrier Pwr (dBm) Initial Pwr (dBm Factor (dB) Band Pwr (dBm) Port Pwr (dBm) (dBm) Results Within Tolerance 44.116 44.12 N/A N/A Pass

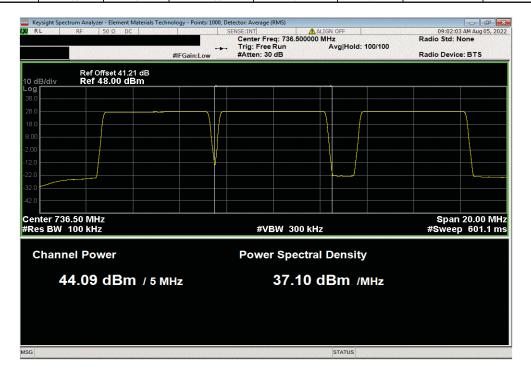




Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz Avg Cond **Duty Cycle** Avg Cond Avg Cond Avg Cond Limit Carrier Pwr (dBm) Initial Pwr (dBm Factor (dB) Band Pwr (dBm) Port Pwr (dBm) (dBm) Results Within Tolerance 43.899 43.9 N/A N/A Pass



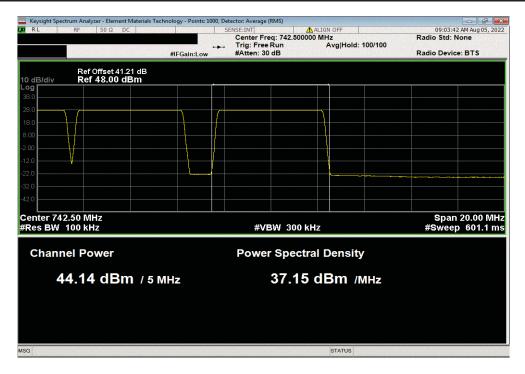
	Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz										
	Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit					
<u>li</u>	nitial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results				
	44.092	0	44.09	N/A	N/A	Within Tolerance	Pass				





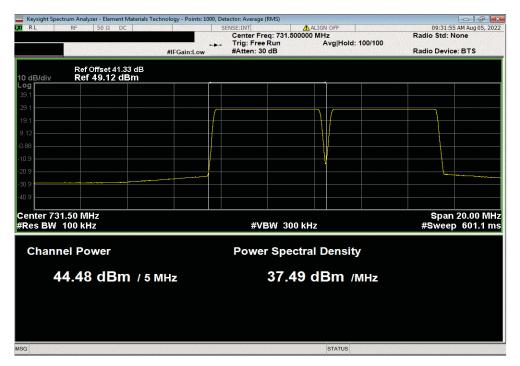
ThrTx 2022 05 02 0 XMit 2022 02 07

Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 742.5 MHz									
Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit				
Initial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results			
44.144	0	44.14	N/A	N/A	Within Tolerance	Pass			

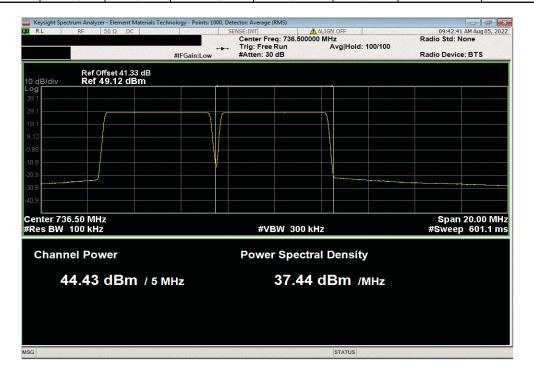




Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz Avg Cond **Duty Cycle** Avg Cond Avg Cond Avg Cond Limit Carrier Pwr (dBm) Initial Pwr (dBm Factor (dB) Band Pwr (dBm) Port Pwr (dBm) (dBm) Results 44.478 0 44.48 N/A N/A Within Tolerance



Port 1, 5G N	Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz									
	Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit				
	Initial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results	_		
	44.431	0	44.43	N/A	N/A	Within Tolerance	Pass			





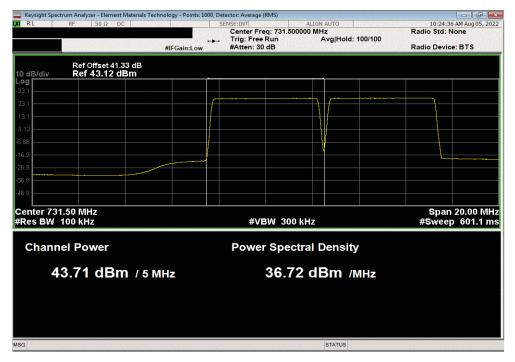
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Port 1,	Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 765.5 MHz									
	Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit				
	Initial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results			
	43.737	0	43.74	N/A	N/A	Within Tolerance	Pass			

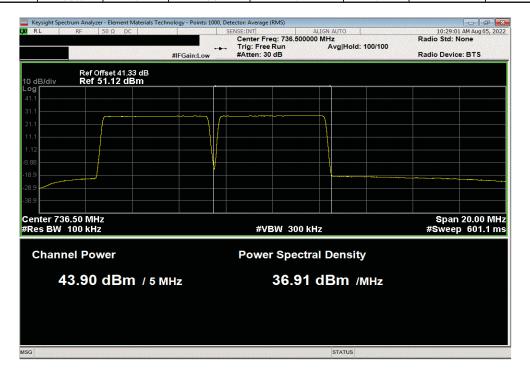




Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz Avg Cond **Duty Cycle** Avg Cond Avg Cond Avg Cond Limit Carrier Pwr (dBm) Initial Pwr (dBm Factor (dB) Band Pwr (dBm) Port Pwr (dBm) (dBm) Results 43.708 43.71 N/A N/A Within Tolerance



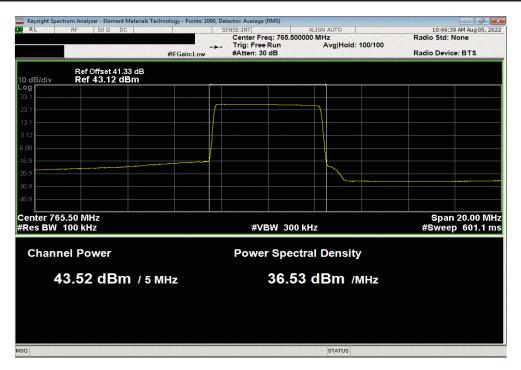
Port 2, 5G N	Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz										
	Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit					
<u>li</u>	nitial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results				
ſ	43.903	0	43.9	N/A	N/A	Within Tolerance	Pass				





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Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 765.5 MHz									
	Avg Cond	<b>Duty Cycle</b>	Avg Cond	Avg Cond	Avg Cond	Limit			
	Initial Pwr (dBm	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results		
	43.517	0	43.52	N/A	N/A	Within Tolerance	Pass		





element

P	ort 1, 5G NR, Mu	lti-Carrier Test Case 1	, Band n12, 729 - 745 M	lhz, 5 MHz Bandwidth,	QPSK Modulation		
Avg Cond	Duty Cycle	Avg Cond	Avg Cond	Avg Cond	Limit		
Initial Pwr (dBm)	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results	
N/A	0	N/A	View Table	View Table	Within Tolerance	Pass	
•	•					•	
Carrier Band	Carrier Fregencies	Carrier Power (dBm)	Carrier Power (Watts)	Band Total Pwr (Watts)	Rand Total Pwr (dRm)	Port Total Pwr (Watts)	Port Total Pwr (dRm)
5G NR Band n12	731.5 MHz	44.21	26.4	N/A	N/A	N/A	N/A
5G NR Band n12	736.5 MHz	44.2	26.3	N/A	N/A	N/A	N/A
5G NR Band n12	742.5 MHz	44.12	25.82	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	78.5	48.95	78.5	48.95
P	ort 2, 5G NR, Mu	iti-Carrier Test Case 1	, Band n12, 729 - 745 M	lhz, 5 MHz Bandwidth,	QPSK Modulation		
Avg Cond	Duty Cycle	Avg Cond	Avg Cond	Avg Cond	Limit		
Initial Pwr (dBm)	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results	
N/A	0	N/A	View Table	View Table	Within Tolerance	Pass	
Carrier Band	Carrier Frequencies 731.5 MHz	Carrier Power (dBm)	Carrier Power (Watts)	Band Total Pwr (Watts) N/A	N/A	Port Total Pwr (Watts)	
5G NR Band n12 5G NR Band n12	731.5 MHz 736.5 MHz	43.9 44.1	24.5 25.7	N/A N/A	N/A N/A	N/A N/A	N/A
		44.1					
	742 5 MHz	44.42					N/A
5G NR Band n12	742.5 MHz	44.12 N/A	25.82	N/A	N/A	N/A	N/A
5G NR Band n12	742.5 MHz N/A	<b>44.12</b> N/A					
	N/A	N/A	25.82	N/A 76.1	N/A 48.82	N/A <b>76.1</b>	N/A
	N/A	N/A	25.82 N/A	N/A 76.1	N/A 48.82	N/A <b>76.1</b>	N/A
Port 1, 5G NR Avg Cond	N/A , Multi-Carrier Tes	N/A st Case 2, Band n12, 7	25.82 N/A 729 - 745 Mhz, Band n14	N/A 76.1 1 758 - 768 MHz, 5 MH	N/A 48.82 Iz Bandwidth, QPSK	N/A <b>76.1</b>	N/A
Port 1, 5G NR Avg Cond Initial Pwr (dBm)	, Multi-Carrier Tes Duty Cycle	N/A st Case 2, Band n12, 7 Avg Cond	25.82 N/A '29 - 745 Mhz, Band n14 Avg Cond Band Pwr (dBm)	N/A 76.1 1 758 - 768 MHz, 5 MH Avg Cond	N/A 48.82 Iz Bandwidth, QPSK Limit (dBm)	N/A 76.1 Modulation Results	N/A
Port 1, 5G NR Avg Cond	N/A , Multi-Carrier Tes Duty Cycle Factor (dB)	N/A st Case 2, Band n12, 7 Avg Cond Carrier Pwr (dBm)	25.82 N/A 729 - 745 Mhz, Band n14 <b>Avg Cond</b>	N/A 76.1 4 758 - 768 MHz, 5 MH Avg Cond Port Pwr (dBm)	N/A 48.82 dz Bandwidth, QPSK Limit	N/A 76.1 Modulation	N/A
Port 1, 5G NR Avg Cond Initial Pwr (dBm) N/A	N/A , Multi-Carrier Tes    Duty Cycle    Factor (dB)    0	st Case 2, Band n12, 7 Avg Cond Carrier Pwr (dBm)	25.82 N/A /29 - 745 Mhz, Band n14 Avg Cond Band Pwr (dBm) View Table	N/A 76.1  758 - 768 MHz, 5 MH Avg Cond Port Pwr (dBm) View Table	N/A 48.82 Iz Bandwidth, QPSK Limit (dBm) Within Tolerance	N/A 76.1  Modulation  Results  Pass	N/A 48.82
Port 1, 5G NR Avg Cond Initial Pwr (dBm) N/A  Carrier Band	N/A , Multi-Carrier Tes    Duty Cycle    Factor (dB)    0  Carrier Frequencies	N/A st Case 2, Band n12, 7 Avg Cond Carrier Pwr (dBm) N/A  Carrier Power (dBm)	25.82 N/A 729 - 745 Mhz, Band n14 Avg Cond Band Pwr (dBm) View Table Carrier Power (Watts)	N/A 76.1  1758 - 768 MHz, 5 MH Avg Cond Port Pwr (dBm) View Table  Band Total Pwr (Watts)	N/A 48.82 Iz Bandwidth, QPSK Limit (dBm) Within Tolerance	N/A 75.1  Modulation  Results  Pass  Port Total Pwr (Watts)	N/A 48.82
Port 1, 5G NR Avg Cond Initial Pwr (dBm) N/A  Carrier Band 5G NR Band n12 and Band n14	N/A , Multi-Carrier Tes Duty Cycle Factor (dB) 0 Carrier Frequencies 731.5 MHz	N/A st Case 2, Band n12, 7 Avg Cond Carrier Pwr (dBm) N/A  Carrier Power (dBm) 44.48	25.82 N/A  729 - 745 Mhz, Band n14 Avg Cond Band Pwr (dBm) View Table  Carrier Power (Watts) 28.1	N/A 76.1 1758 - 768 MHz, 5 MF Avg Cond Port Pwr (dBm) View Table  Band Total Pwr (Watts) N/A	N/A 48.82 Iz Bandwidth, QPSK Limit (dBm) Within Tolerance  Band Total Pwr (dBm) N/A	N/A 76.1  Modulation  Results  Pass  Port Total Pwr (Watts)  N/A	N/A 48.82 Port Total Pwr (dBm) N/A
Port 1, 5G NR Avg Cond Initial Pwr (dBm) N/A  Carrier Band	N/A , Multi-Carrier Tes    Duty Cycle    Factor (dB)    0  Carrier Frequencies	N/A st Case 2, Band n12, 7 Avg Cond Carrier Pwr (dBm) N/A  Carrier Power (dBm)	25.82 N/A 729 - 745 Mhz, Band n14 Avg Cond Band Pwr (dBm) View Table Carrier Power (Watts)	N/A 76.1  1758 - 768 MHz, 5 MH Avg Cond Port Pwr (dBm) View Table  Band Total Pwr (Watts)	N/A 48.82 Iz Bandwidth, QPSK Limit (dBm) Within Tolerance	N/A 75.1  Modulation  Results  Pass  Port Total Pwr (Watts)	N/A 48.82

	Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation									
	Avg Cond Duty Cycle Avg Cond Avg Cond Avg Cond Limit									
	Initial Pwr (dBm)	Factor (dB)	Carrier Pwr (dBm)	Band Pwr (dBm)	Port Pwr (dBm)	(dBm)	Results			
ĺ	N/A	0	N/A	View Table	View Table	Within Tolerance	Pass			

Carrier Band	Carrier Frequencies	Carrier Power (dBm)	Carrier Power (Watts)	Band Total Pwr (Watts)	Band Total Pwr (dBm)	Port Total Pwr (Watts)	Port Total Pwr (dBm)
5G NR Band n12 and Band n14	731.5 MHz	43.71	23.5	N/A	N/A	N/A	N/A
5G NR Band n12 and Band n14	736.5 MHz	43.9	24.6	N/A	N/A	N/A	N/A
5G NR Band n12 and Band n14	765.5 MHz	43.52	22.49	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	70.5	46.9	70.5	46.9

# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12



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

#### **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 13 dB.

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.

AHLBBA antenna ports 1&4 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.

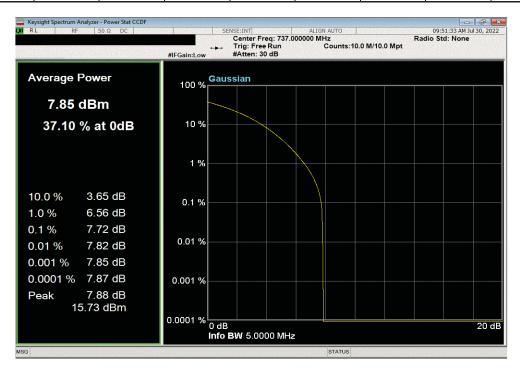
AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.



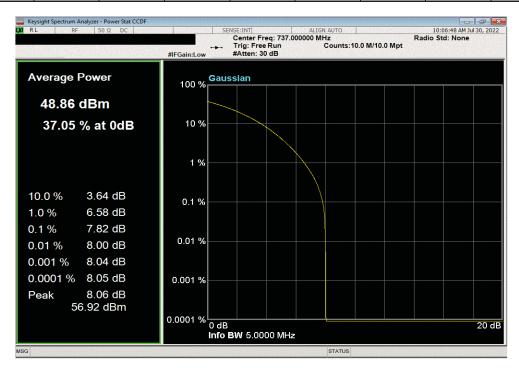
EUT: AHLBBA (C2PC/C3PC FCC/ISED)
Serial Number: K9193514835
Customer: Nokia Solutions and Networks
Attendees: Mitchell Hill
Project Nose Work Order: NOKI0047 Date: 30-Jul-22 Temperature: 20.6 °C Humidity: 59.4% RH Barometric Pres.: 1021 mbar Project: None
Tested by: Marty Martin
TEST SPECIFICATIONS Power: 54VDC Test Method Job Site: TX07 RSS-130 Issue 2: 2019 COMMENTS All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. DEVIATIONS FROM TEST STANDARD Morty Configuration # Marti Signature PAPR PAPR Value (dB) Limit (dB) Results Port 1 Band n12, 729 - 745 Mhz 5 MHz Bandwidth QPSK Modulation Mid Channel, 737.0 MHz 7.72 13 Pass 16QAM Modulation Mid Channel, 737.0 MHz 7.82 13 Pass Mid Channel, 737.0 MHz 7 69 13 Pass 256QAM Modulation Low Channel, 731.5 MHz Mid Channel, 737.0 MHz 7.70 7.70 13 13 Pass Pass High Channel, 742.5 MHz 7 69 13 Pass 10 MHz Bandwidth 256QAM Modulation Low Channel, 734 MHz 7.72 Pass 13 Mid Channel, 737.0 MHz High Channel, 740 MHz 7.77 7.77 Pass Pass 13 13 15 MHz Bandwidth 256QAM Modulation Low Channel, 736.5 MHz Mid Channel, 737.0 MHz 13 13 13 7.69 Pass 7.73 Pass High Channel, 737.5 MHz 7 69 Pass Port 2 Band n12, 729 - 745 Mhz 5 MHz Bandwidth QPSK Modulation
Mid Channel, 737.0 MHz 6.71 13 Pass 16QAM Modulation Mid Channel, 737.0 MHz 6.88 13 Pass 64QAM Modulation Mid Channel, 737.0 MHz 13 Pass 6.69 256QAM Modulation Low Channel, 731.5 MHz 6.76 13 Pass Mid Channel, 737.0 MHz 6.69 13 13 Pass High Channel, 742.5 MHz 6.71 Pass 10 MHz Bandwidth 256QAM Modulation Low Channel, 734 MHz Mid Channel, 737.0 MHz 6.98 6.82 13 13 Pass Pass High Channel, 740 MHz 6.77 13 Pass 15 MHz Bandwidth 256QAM Modulation Low Channel, 736.5 MHz 7.09 7.04 13 Pass Mid Channel, 737.0 MHz 13 13 Pass High Channel, 737.5 MHz Pass



Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.72 13 Pass

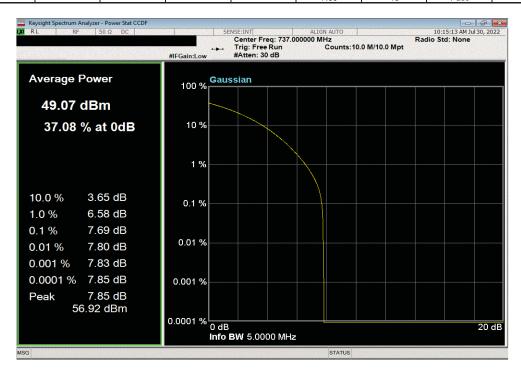


Port 1	, Band n12, 729 -	745 Mhz, 5 MHz	Bandwidth, 16Q/	AM Modulation, M	lid Channel, 737.	0 MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.82	13	Pass

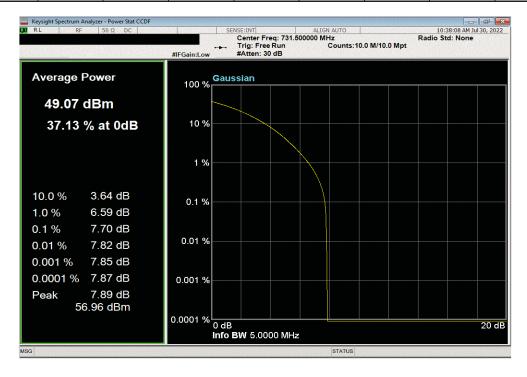




Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.69 13 Pass

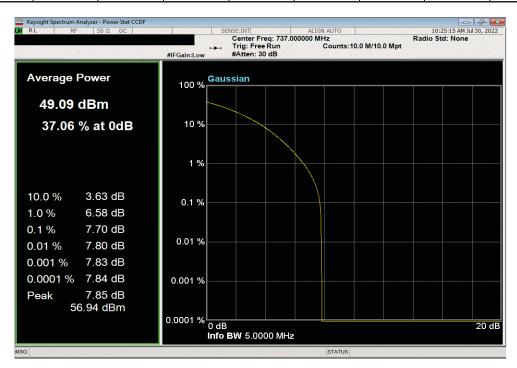


Port, 1	Band n12, 729 -	745 Mhz, 5 MHz I	Bandwidth, 256Q	AM Modulation, L	ow Channel, 731	.5 MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.7	13	Pass

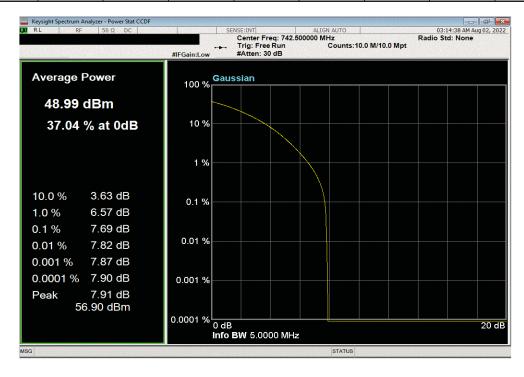




Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.7 13 Pass

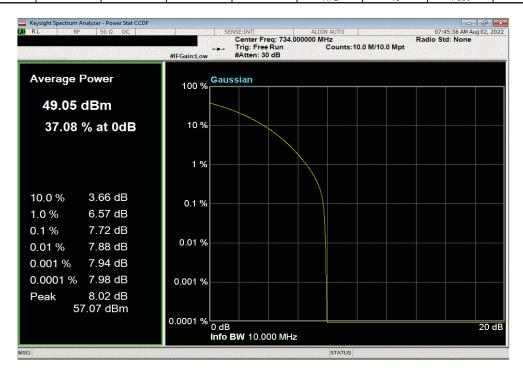


Port 1,	Band n12, 729 - 7	745 Mhz, 5 MHz B	Bandwidth, 256Q	AM Modulation, F	ligh Channel, 742	2.5 MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.69	13	Pass





Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.72 13 Pass

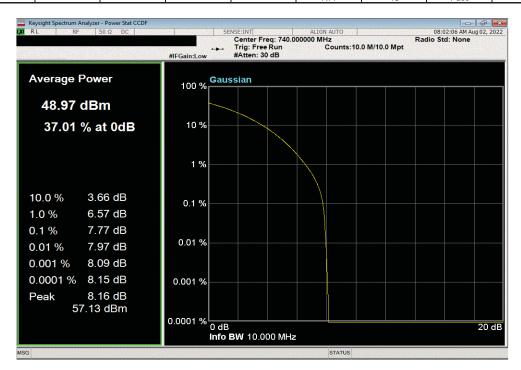


	Port 1,	Band n12, 729 - 1	745 Mhz, 10 MHz	Bandwidth, 2560	QAM Modulation,	Mid Channel, 737	'.0 MHz
					PAPR	PAPR	
					Value (dB)	Limit (dB)	Results
1 [					7.77	13	Pass

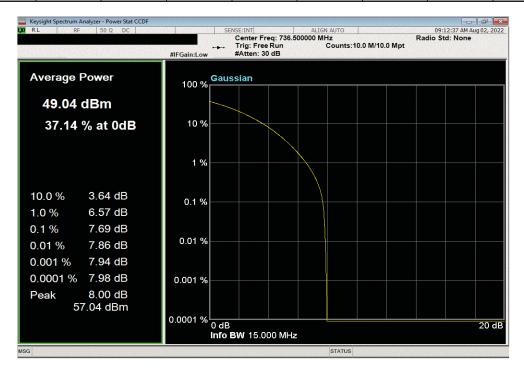




Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.77 13 Pass

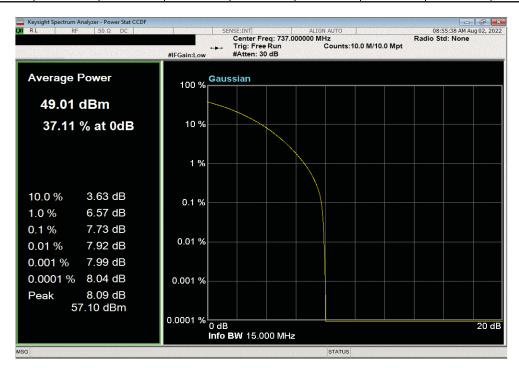


Port 1,	Band n12, 729 - 7	745 Mhz, 15 MHz	Bandwidth, 2560	AM Modulation,	Low Channel, 736	6.5 MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.69	13	Pass

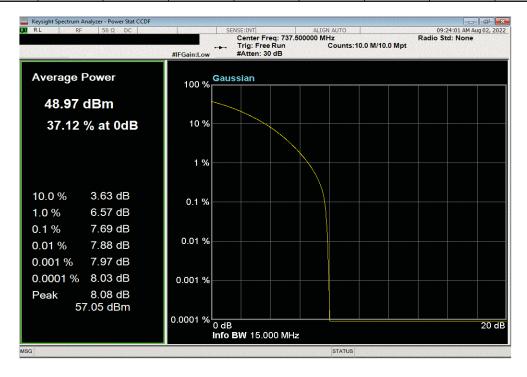




Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.73 13 Pass



Port 1, I	Band n12, 729 - 7	45 Mhz, 15 MHz	Bandwidth, 256C	AM Modulation,	High Channel, 73	7.5 MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.69	13	Pass



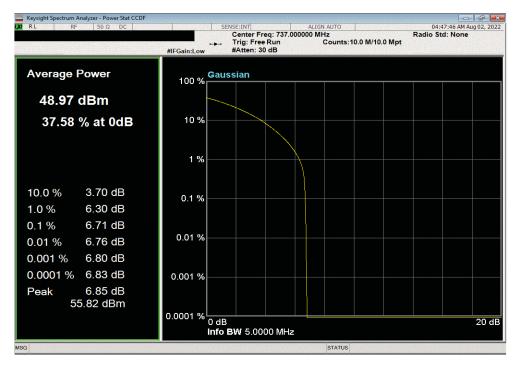


Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz

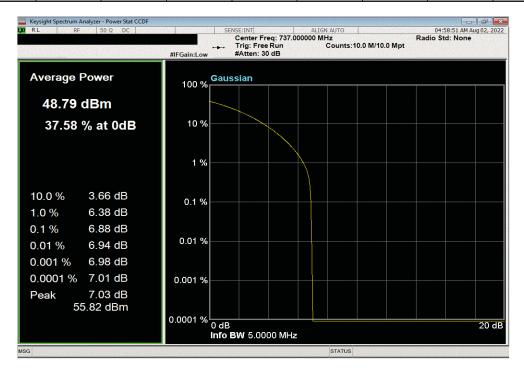
Value Limit

(dB) < (dB) Results

6.71 13 Pass



Port 2,	Band n12, 729 -	745 Mhz, 5 MHz I	Bandwidth, 16QA	QM Modulation, I	Mid Channel, 737	'.0 MHz
				Value	Limit	
				(dB)	< (dB)	Results
				6.88	13	Pass

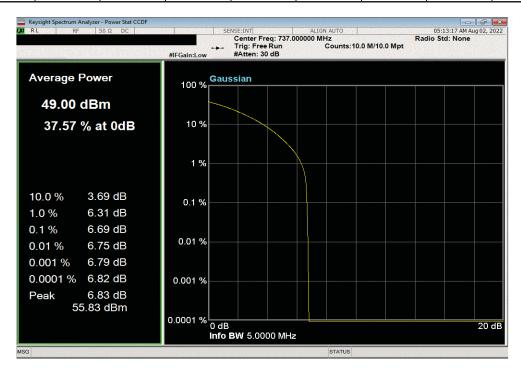




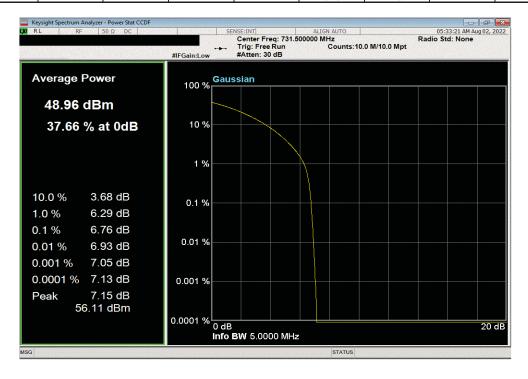
Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz

Value Limit
(dB) < (dB) Results

6.69 13 Pass



Port 2,	Band n12, 729 -	745 Mhz, 5 MHz I	Bandwidth, 256Q	AM Modulation, L	ow Channel, 731	.5 MHz
				Value	Limit	
				(dB)	< (dB)	Results
				6.76	13	Pass



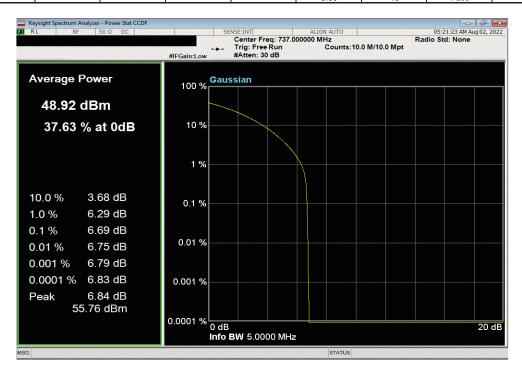


Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz

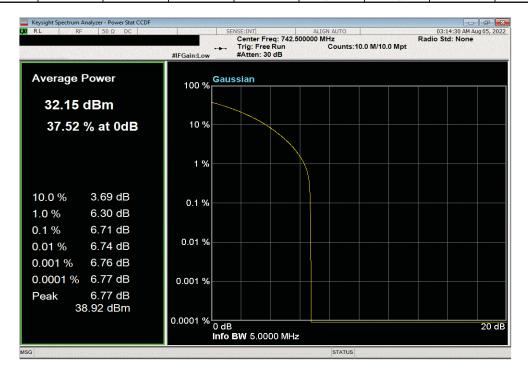
Value Limit

(dB) <(dB) Results

6 69 13 Pass



	Port 2,	Band n12, 729 - 7	745 Mhz, 5 MHz B	Bandwidth, 256Q	AM Modulation, F	ligh Channel, 742	2.5 MHz
					Value	Limit	
					(dB)	< (dB)	Results
1 [					6.71	13	Pass



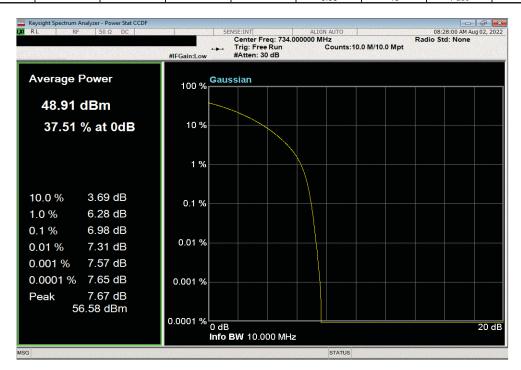


Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz

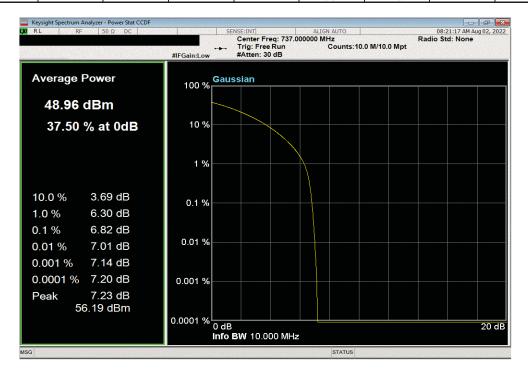
Value Limit

(dB) < (dB) Results

6.98 13 Pass



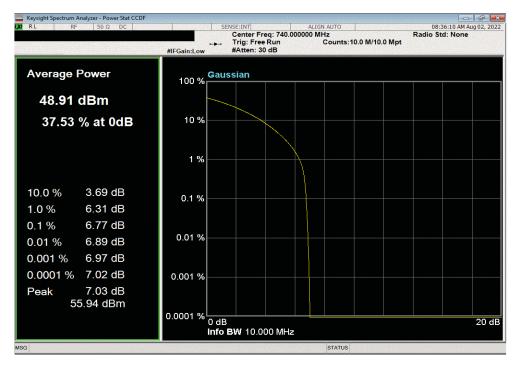
	Port 2,	Band n12, 729 - 7	745 Mhz, 10 MHz	Bandwidth, 2560	QAM Modulation,	Mid Channel, 737	7.0 MHz
					Value	Limit	
					(dB)	< (dB)	Results
l í					6.82	13	Pass



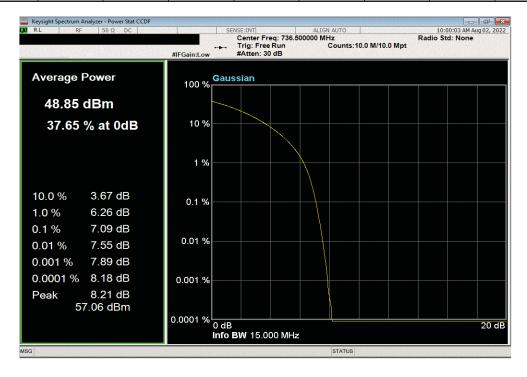


Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz

Value Limit
(dB) < (dB) Results
6.77 13 Pass



Port 2, I	Band n12, 729 - 7	745 Mhz, 15 MHz	Bandwidth, 2560	QAM Modulation,	Low Channel, 730	6.5 MHz
				Value	Limit	
				(dB)	< (dB)	Results
				7.09	13	Pass

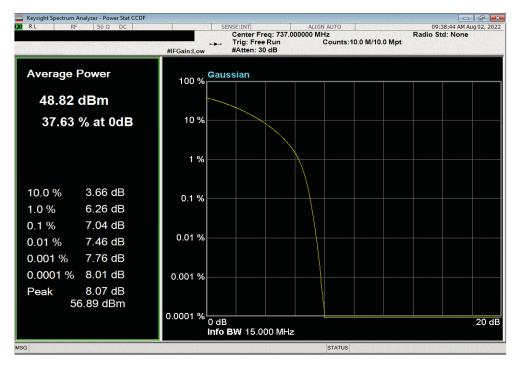




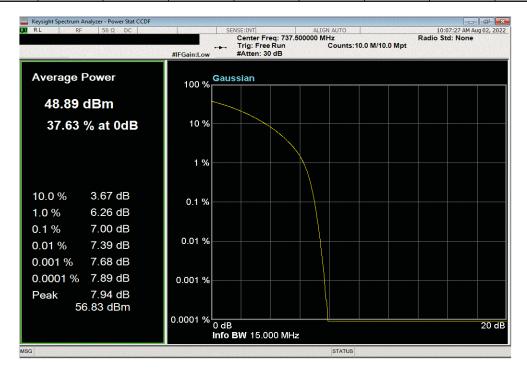
Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz

Value Limit
(dB) < (dB) Results

7.04 13 Pass



Port 2, I	Band n12, 729 - 7	45 Mhz, 15 MHz	Bandwidth, 256C	AM Modulation, I	High Channel, 73	7.5 MHz
				Value	Limit	
				(dB)	< (dB)	Results
				7	13	Pass





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

#### **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 13 dB.

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.

AHLBBA antenna ports 1&4 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.

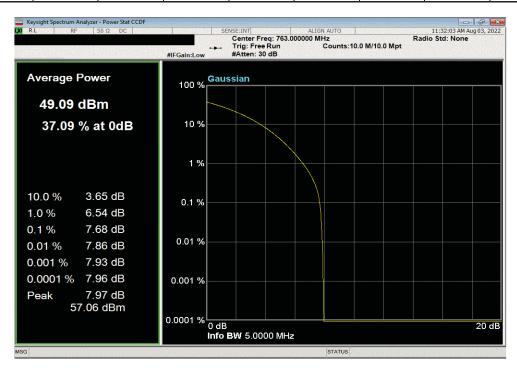
AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.



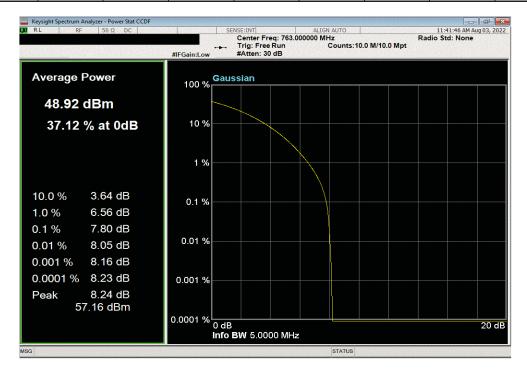
	L BB. (00B0(0	00/055		W:	TbtTx 2022.05.02.0	XMit 2022
	AHLBBA (C2PC/C3PC F	CC/ISED)		Work Order:		
Serial Number:					3-Aug-22	
	Nokia Solutions and Net	works		Temperature:		
	Mitchell Hill				56.9% RH	
Project:		Device	r: 54VDC	Barometric Pres.:		
ST SPECIFICAT	Marty Martin	Power	Test Method	Job Site:	1807	
SI SPECIFICATI	IONS		rest Method			
S 140 Issue 1: 20	018	<del>-</del>	ANSI C63.26:2015			
C 90R:2022	010		ANSI C63.26:2015			
		ed for in the reference level offset including attenuators,	, cables, DC block and filter whe	en in use. The carriers were enabled at maxir	num power.	
VIATIONS FROM	M TEST STANDARD					
nfiguration#	2	Mat	na +			
illiguration #		Signature	Maria			
				PAPR Value (dB)	PAPR Limit (dB)	Results
rt 1				value (ub)	Ellilit (dB)	Results
	Band n14, 758 - 768 Mhz 5 MHz Band	width QPSK Modulation				
		Mid Channel, 763 MHz		7.68	13	Pass
		16QAM Modulation		1.00		. 400
		Mid Channel, 763 MHz		7.8	13	Pass
		64QAM Modulation		1.0		. 400
		Mid Channel, 763 MHz		7.67	13	Pass
		256QAM Modulation				
		Low Channel, 760.5 MHz		7.67	13	Pass
		Mid Channel, 763 MHz		7.67	13	Pass
		High Channel, 765.5 MHz		7.78	13	Pass
	10 MHz Ban	dwidth 256QAM Modulation				
		Mid Channel, 763 MHz		7.86	13	Pass
t2	Band n14, 758 - 768 Mhz 5 MHz Band					
		QPSK Modulation				
		Mid Channel, 763 MHz		6.76	13	Pass
		16QAM Modulation		2.22	40	D-
		Mid Channel, 763 MHz		6.93	13	Pass
		64QAM Modulation		0.75	12	Derr
		Mid Channel, 763 MHz		6.75	13	Pass
		256QAM Modulation		0.74	12	Derr
		Low Channel, 760.5 MHz Mid Channel, 763 MHz		6.71	13	Pass
				6.76	13	Pass
				7.04	12	De
	10 MHz Ban	High Channel, 765.5 MHz		7.04	13	Pass
	10 MHz Ban	High Channel, 765.5 MHz		7.04	13	Pass



Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.68 13 Pass

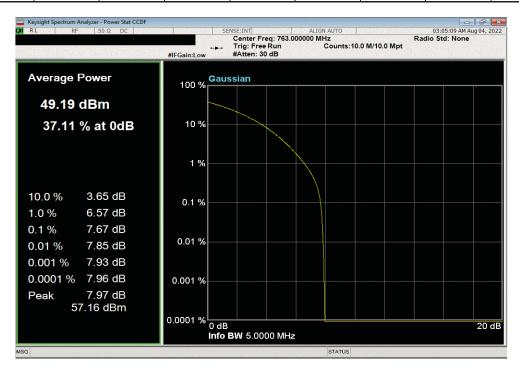


Port	1, Band n14, 758	- 768 Mhz, 5 MH:	z Bandwidth, 16C	AM Modulation,	Mid Channel, 763	MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				7.8	13	Pass

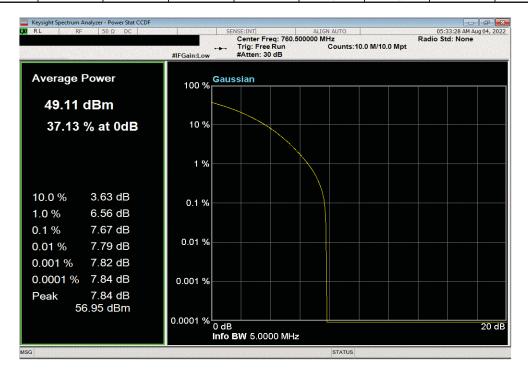




Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.67 13 Pass

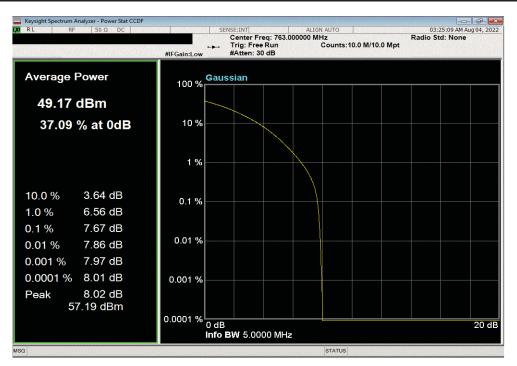


	Port 1,	Band n14, 758 -	768 Mhz, 5 MHz I	Bandwidth, 256Q	AM Modulation, L	ow Channel, 760	).5 MHz	
					PAPR	PAPR		
1					Value (dB)	Limit (dB)	Results	
					7.67	13	Pass	

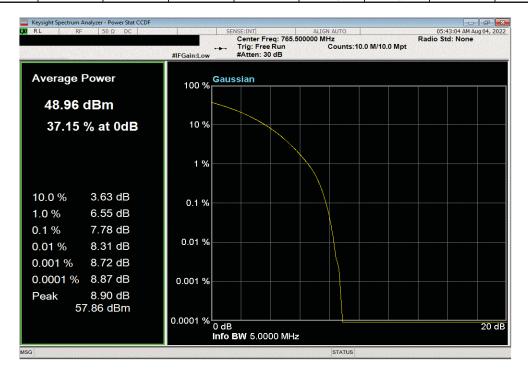




Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.67 13 Pass

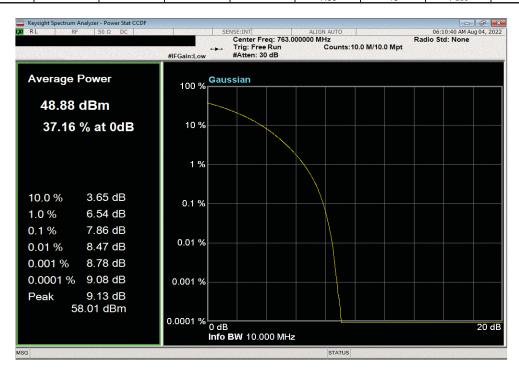


	Port 1,	Band n14, 758 -	768 Mhz, 5 MHz E	Bandwidth, 256Q	AM Modulation, F	ligh Channel, 765	i.5 MHz	П
					PAPR	PAPR		
					Value (dB)	Limit (dB)	Results	
l í					7.78	13	Pass	



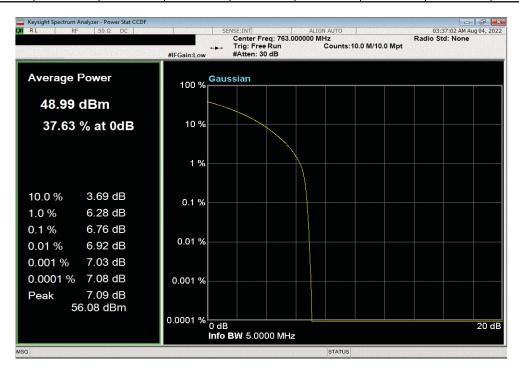


Port 1, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.86 13 Pass

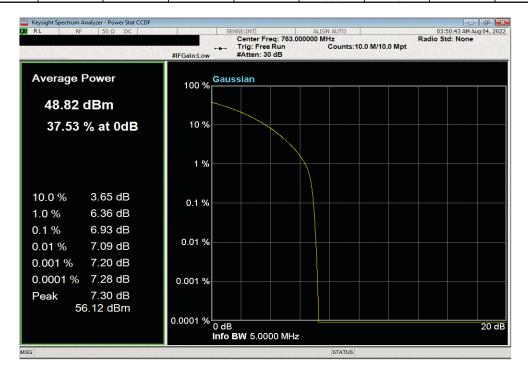




Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
6.76 13 Pass

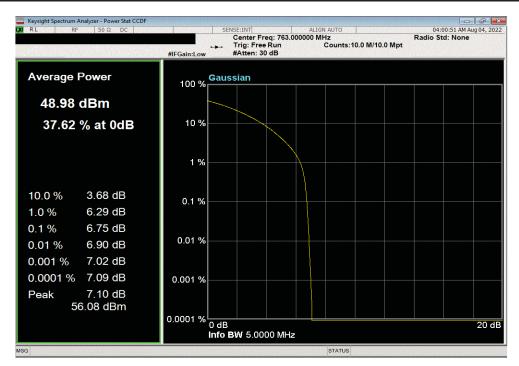


Port	2, Band n14, 758	- 768 Mhz, 5 MH	z Bandwidth, 16C	AM Modulation,	Mid Channel, 763	MHz
				PAPR	PAPR	
				Value (dB)	Limit (dB)	Results
				6.93	13	Pass

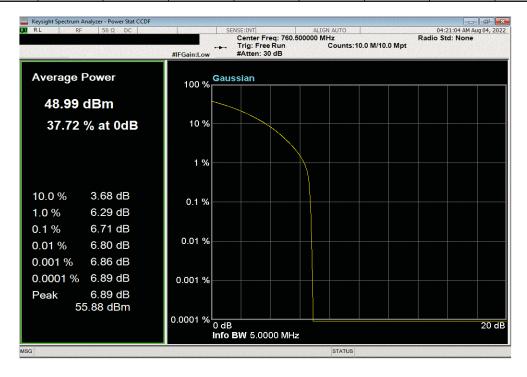




Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
6.75 13 Pass

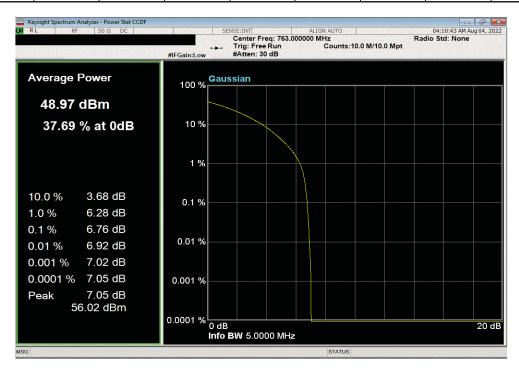


Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 760.5 MHz								
				PAPR	PAPR			
				Value (dB)	Limit (dB)	Results		
				6.71	13	Pass		

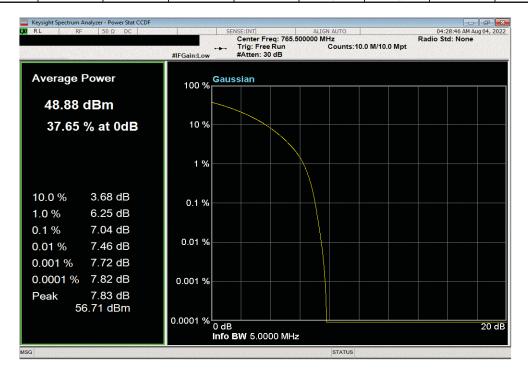




Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
6.76 13 Pass



	Port 2,	Band n14, 758 -	768 Mhz, 5 MHz B	Bandwidth, 256Q	AM Modulation, F	ligh Channel, 765	i.5 MHz	
					PAPR	PAPR		
1					Value (dB)	Limit (dB)	Results	
1					7.04	13	Pass	





Port 2, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz
PAPR PAPR
Value (dB) Limit (dB) Results
7.33 13 Pass

