#### **BAND EDGE COMPLIANCE - MULTICARRIER MULTIBAND**



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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the data sheet. The spectrum was scanned below the lower band edge and above the higher band edge.

Per FCC section 27.53(g), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band n12.

FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

Per section 90.543(e)(3), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band n14.

FCC 90.543(e)(5) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 90.543(e)(5) requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

FCC 90.543(e)(1) requires an emission limit of -46dBm for any 6.25 kHz bandwidth between frequency bands 769-775 MHz and 799-805 MHz. The limit is adjusted to -52 dBm per 6.25kHz bandwidth [-46 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Spectrum analyzer reference level offset corrections were applied for the Band n14 band edge measurements from 769MHz-775MHz and 799MHz to 805MHz as follows:

Frequency	Sig Gen Output	Analyzer Reading	Cable Loss
769	0.0	-48.1	48.1
769.05	0.0	-47.7	47.7
769.1	0.0	-47.4	47.4
769.15	0.0	-47.1	47.1
769.2	0.0	-46.8	46.8
769.25	0.0	-46.6	46.6
769.3	0.0	-46.4	46.4
769.35	0.0	-46.2	46.2
769.4	0.0	-46.0	46.0
769.45	0.0	-45.8	45.8
769.5	0.0	-45.7	45.7
769.55	0.0	-45.5	45.5
769.6	0.0	-45.4	45.4
769.65	0.0	-45.3	45.3
769.7	0.0	-45.2	45.2
769.75	0.0	-45.1	45.1
769.8	0.0	-45.0	45.0
769.85	0.0	-44.9	44.9
769.9	0.0	-44.8	44.8
769.95	0.0	-44.7	44.7
770	0.0	-44.7	44.7
770.05	0.0	-44.6	44.6
771	0.0	-43.7	43.7
775	0.0	-43.2	43.2
798	0.0	-42.5	42.5
805	0.0	-42.2	42.2
806	0.0	-42.2	42.2

RF conducted emissions testing was performed only on one port. The AHLBA 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.

#### Multicarrier Test Cases

Multi-Carrier Test Case 1 (3GPP Band n12 Multicarrier): Three NR5 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).

Multi-Carrier Test Case 2 (3GPP Band n12 and Band n14 Multicarrier/Multiband): In the Band n12 \_ Two NR5 carriers at the lower band edge (731.5 & 736.5MHz). In Band n14 one NR5 carrier at the upper band edge (765.5MHz). 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/n14 carriers).

### **BAND EDGE COMPLIANCE - MULTICARRIER MULTIBAND**



						TbtTx 2022.05.02.0	XMit 2022.	
EUT: A					Work Order:			
Serial Number: KS	9180844519				Date:	19-Aug-22		
Customer: No	okia Solutions and Netwo	rks			Temperature:	21.9 °C		
Attendees: Da	avid Le			Humidity: 53.2% RH				
Project: No	one			Barometric Pres.: 1017 mbar				
Tested by: M	arty Martin		Power: 54 VDC		Job Site:	TX07		
EST SPECIFICATION	NS		Test Method					
CC 27:2022			ANSI C63.26:2015					
CC 90R:2022			ANSI C63.26:2015					
OMMENTS								
ase to achieve a tota	al port power of 80 watts.							
one								
Configuration #	2, 4	Signature	y Marti					
			Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
		MHz					Result	
	G NR, Band n12, 729 - 745 5 MHz Bandwid	th					Result	
	G NR, Band n12, 729 - 745 5 MHz Bandwid						Result	
	G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz		Freq (MHz) 729	(dBm) -26.97		Result	
	G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation		Freq (MHz)	(dBm)	< (dBm)		
	G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz	Range 1	Freq (MHz) 729	(dBm) -26.97	< (dBm) -19		
50	G NR, Band n12, 729 - 745 5 MHz Bandwid Ql	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz	Range 1	Freq (MHz) 729 728.9	( <b>dBm</b> ) -26.97 -23.18	< (dBm) -19 -19	Pass Pass	
ort 1, Multi-Carrier Te	G NR, Band n12, 729 - 745 5 MHz Bandwid Qi st Case 2	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz	Range 1 2 1	Freq (MHz) 729 728.9 745	(dBm) -26.97 -23.18 -26.5	< (dBm) -19 -19 -19	Pass Pass Pass	
50 ort 1, Multi-Carrier Te:	G NR, Band n12, 729 - 745 5 MHz Bandwid Qi st Case 2	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz	Range 1 2 1	Freq (MHz) 729 728.9 745	(dBm) -26.97 -23.18 -26.5	< (dBm) -19 -19 -19	Pass Pass Pass	
50 ort 1, Multi-Carrier Te:	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz	Range 1 2 1	Freq (MHz) 729 728.9 745	(dBm) -26.97 -23.18 -26.5	< (dBm) -19 -19 -19	Pass Pass Pass	
50 ort 1, Multi-Carrier Te:	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz th	Range 1 2 1	Freq (MHz) 729 728.9 745	(dBm) -26.97 -23.18 -26.5	< (dBm) -19 -19 -19	Pass Pass Pass	
50 ort 1, Multi-Carrier Te	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz th	Range 1 2 1	Freq (MHz) 729 728.9 745 745.1	(dBm) -26.97 -23.18 -26.5 -22.46	< (dBm) -19 -19 -19 -19	Pass Pass Pass Pass	
50 ort 1, Multi-Carrier Te	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz th PSK Modulation Low Channel, 731.5 MHz	Range 1 1 2 1 2 2	Freq (MHz) 729 728.9 745 745.1 745.1	(dBm) -26.97 -23.18 -26.5 -22.46 -26.3	< (dBm) -19 -19 -19 -19 -19	Pass Pass Pass Pass Pass	
50 ort 1, Multi-Carrier Te:	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz MHz, Band n14 758 - 768 MHz th PSK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz	Range 1 1 2 1 2 2	Freq (MHz) 729 728.9 745 745.1 745.1 729 728.9	(dBm) -26.97 -23.18 -26.5 -22.46 -26.3 -21.68	< (dBm) -19 -19 -19 -19 -19 -19 -19	Pass Pass Pass Pass Pass Pass	
50 ort 1, Multi-Carrier Te:	G NR, Band n12, 729 - 745 5 MHz Bandwid Qu st Case 2 G NR, Band n12, 729 - 745 5 MHz Bandwid	th 2SK Modulation Low Channel, 731.5 MHz Low Channel, 731.5 MHz High Channel, 742.5 MHz High Channel, 742.5 MHz th PSK Modulation Low Channel, 731.5 MHz High Channel, 731.5 MHz High Channel, 765.5 MHz	Range 1 1 2 1 2 2	Freq (MHz) 729 728.9 745 745 745.1 728.9 728.9 768	(dBm) -26.97 -23.18 -26.5 -22.46 -26.3 -21.68 -29.41	< (dBm) -19 -19 -19 -19 -19 -19 -19	Pass Pass Pass Pass Pass Pass Pass	

# BAND EDGE COMPLIANCE - MULTICARRIER MULTIBAND



	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		729	-26.97	-19	Pass
	im Analyzer - Element Materials Tech RF 50 Ω DC CORREC		SENSE:INT	ALIGN AUTO Avg Type: Avg Hold: {		05:11:42 AM Aug 18, 202 TRACE 1 2 3 4 5 TYPE A
		IFGain:Low	#Atten: 30 dB			DETANNNN
	tef Offset 40.9 dB tef 40.90 dBm				Mkr1 72	9.000 000 MHz -26.967 dBm
- • 9			Ĭ			
30.9						
20.9						
10.9						
0.900						
-9.10						
						DL1 -19.00 dBn
-19.1			1			
-29.1						
-39.1						
-49.1						
Start 728.90 #Res BW 30		#VB	▲ ₩ 91 kHz*			top 729.1000 MHz 067 ms (8001 pts
MSG				STATUS		

Port 1,	Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz								
		Frequency		Measured	Max Value	Limit			
		Range		Freq (MHz)	(dBm)	< (dBm)	Result		
1		2		728.9	-23.18	-19	Pass		

RL RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO	05:12:17 AM Aug 18, 2
	PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4
Ref Offset 40.9 dB dB/div Ref 40.90 dBm				Mkr1 728.900 MI -23.182 dB
0.9		Ť		
].9				
00				
10				1 DL1-19.00
.1				
.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	······	······	
0.1				
0.1				
art 705.00 MHz Res BW 100 kHz	#VB	W 300 kHz*		Stop 734.00 M Sweep 1.600 ms (8001 p
s			STATUS	

#### **BAND EDGE COMPLIANCE - MULTICARRIER MULTIBAND**



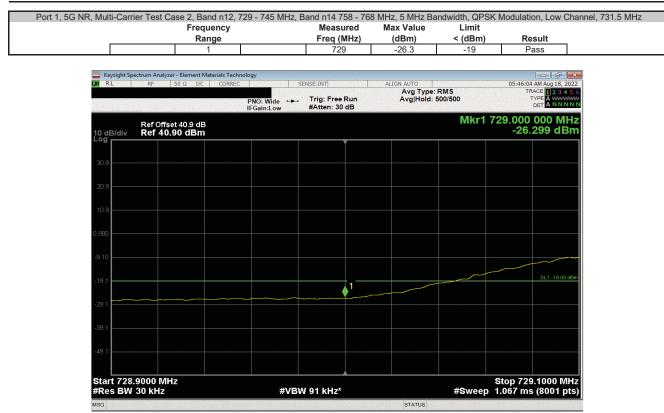
Image: Separation of the second s	Frequency Range		Measured req (MHz)	Max Value (dBm)	Limit < (dBm)	Result
NRL         RF         SO. D.C.         CORREC         SENSE INT         ALION AITO         0513:16 AM AUDE.           PNO: Wide         Trig: Free Run #Atten: 30 dB         Avg1ype: RMS Avg1yhoid: 500/500         Trig: Free Run PNO: Wide         Avg1ype: RMS Avg1yhoid: 500/500         Trig: Free Run PLO: Wide         Avg1ype: RMS Avg1ype:						
M         RE         SU         DC         CORREC         SENSETINT         ALIGN AUTO         0513:16 AM AUTO.						
PNO: Wide         Trig: Free Run #Atten: 30 dB         Avg Type: RMS Avg Hold: 500/500         Trace Type: Type: RMS Avg Hold: 500/500           10 dB/div         Ref Offset 40.9 dB Ref 40.90 dBm         Mkr1 745.000 000 M -26.495 dE           00 g00						
Ref Offset 40.90 dBm         Mkr1 745.000 000 M           30.9	KL RF 50.52 DC CORREC			Avg Type:		TRACE 1 2 3 4 5
Ref Offset 40.90 dBm         Mkr1 745.000 000 M           30-9				Avg Hold: 5	00/500	DET A NNNN
10 dB/div       Ref 40.90 dBm      26.495 dE         30.9	Rof Offeret 40.9 dR				Mkr1 74	5.000 000 MH
309	10 dB/div Ref 40.90 dBm					-26.495 dBn
209 109 900 910 910 910 910 910 9			Y			
10.9 0.900 -9.10 -9.	30.9					
10.9 9.0 9.10 -9.1 -						
0 900 9.10 -19.1 -29.1 -39.1 -39.1 -39.1 -39.1 -39.1 -39.1 -51.1000 MHz Start 744.9000 MHz Start 744.9000 MHz	20.9					
0 900 -9.10						
3.10 .19.1 .19.1 .29.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .39.1 .51.1 .51.100 MHz .51.000 MHz	10.9					
-19.1 -29.1 -39.1 -49.1 -49.1 -55tart 744.9000 MHz -55tart 744.9000 MHz	0.900					
-19.1 -29.1 -39.1 -49.1 -49.1 -55tart 744.9000 MHz -55tart 744.9000 MHz						
19.1     1       -29.1     1       -39.1     -       49.1     -       Start 744.9000 MHz     Stop 745.1000 MHz	-9.10					
-29.1 -29.1 -39.1 -49.1 -49.1 -49.1 -50.000 MHz -50.000 MHz -50.0000 MHz -50.000 MHZ -50.0000 MHZ -50.000 MHZ -50.0000 MHZ -50.0000 MHZ -50.000 MHZ	40.4					DL1 -19.00 dBr
-39.1 -39.1 -49.1 Start 744.9000 MHz Stop 745.1000 M	-19.1		<b>↓</b> 1			
-49.1 Start 744.9000 MHz Stop 745.1000 M	-29.1				·	
-49.1 Start 744.9000 MHz Stop 745.1000 M						
Start 744.9000 MHz Stop 745.1000 M	-39.1					
Start 744.9000 MHz Stop 745.1000 M	-49.1					
	Start 744 9000 MHz					top 745 1000 MH
		#VBW 91	kHz*			
MSG	ASG			STATUS		
Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742						

Port 1, 5	Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz							
		Frequency		Measured	Max Value	Limit		
		Range		Freq (MHz)	(dBm)	< (dBm)	Result	
Г		2		745.1	-22.46	-19	Pass	

RL	RF 50 Ω DC	CORREC		S	ENSE:INT	ALI	GN AUTO		05:13:5	2 AM Aug 18, 20
	_		PNO: Fast IFGain:Low	••••	Trig: Free Run #Atten: 30 dB		Avg Type: Avg Hold:		т	RACE 1 2 3 4 TYPE A WWW DET A NNN
dB/div	Ref Offset 40.9 dB Ref 40.90 dBm							ľ	4kr1 745 -22	5.100 MH .455 dB
_					Ĭ					
.9	~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
.9										
.9										
0										
0										
1										DL1 -19.00 c
				~~~~~			·······			
.1									······	- marine
1										
1										
	00 MHz 100 kHz			WBY	V 300 kHz*			Sweet	Stop 2.133 m	770.00 Mi s (8001 pi
			"	* U V	- 500 KHZ		STATUS	owee	<i>2.1</i> 35 m	5 (000 T pi



#### **BAND EDGE COMPLIANCE**



 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

 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBm)
 Result

 2
 728.9
 -21.68
 -19
 Pass

RL	RF 50 Ω [	CORREC		SENSE:INT	ALIGN AUTO		05:46:38 AM Aug 1	8, 203
			PNO: Fast +++ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: R Avg Hold: 50		TRACE 1 2 TYPE A W DET A N	345
dB/div	Ref Offset 40.9 d Ref 40.90 dB	iB m				M	kr1 728.900   -21.676 c	
3.9 — —								
).9								
).9								
00								
10								
.1							1 DL1 -19	9.00 c
.1							¢	
.1	······		^		m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.			
.1								
art 705.	00 MHz						Stop 734.00	MI
es BW	100 kHz		#VB	W 300 kHz*		Sweep	1.600 ms (8001	1 pt



#### **BAND EDGE COMPLIANCE**

Frequency Range	1	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
1		768	-29.41	-19	Pass
	1				
Keysight Spectrum Analyzer - Element Materials T	echnology				
LXI RL RF 50 Ω DC COR		SENSE:INT	ALIGN AUTO		05:57:48 AM Aug 18, 203
	PNO: Wide ↔ IFGain:Low		Avg Type: Avg Hold:		TRACE 1 2 3 4 5 TYPE A WWWM DET A N N N N
Ref Offset 40.9 dB 10 dB/div Ref 40.90 dBm				Mkr1 7	68.000 000 MH -29.412 dBr
		The second secon			
30.9					
20.9					
10.9					
0.900					
0.900					
-9.10					
53.10					
-19.1					DL1 -19.00 dE
		1			
-29.1					
-39.1					
-49.1					
Start 767.9000 MHz #Res BW 30 kHz		▲ BW 91 kHz*			Stop 768.1000 MH I.067 ms (8001 pts

 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

 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBm)
 < (dBm)</th>
 Result

 2
 768.1
 -26.91
 -19
 Pass

RL RF 50 Ω DC	CORREC		SENSE:INT	ALIGN AUTO	05:58:32 AM Aug 18, 20
		PNO: Fast ↔→ IFGain:Low		Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 TYPE A WWW DET A NNN
Ref Offset 40.9 dB dB/div Ref 40.90 dBm					Mkr1 768.100 00 MH -26.908 dB
.9					
.9					
.9					
0					
10					
1					DL1 -19.00 (
1	) <sup>1</sup>				
.1					
.1	Lange and a start			and the staff of the	
art 758.00 MHz es BW 100 kHz		#VB	W 300 kHz*	#Sv	Stop 808.00 Mi weep 7.467 ms (8001 pt



#### **BAND EDGE COMPLIANCE**

Frequer	ncy	Measured	Max Value	Limit	
Range	9	Freq (MHz)	(dBm)	< (dBm)	Result
3		769.17	-57.38	-52	Pass
Keysight Spectrum Analyzer - Element Materi	als Technology				
	CORREC	SENSE:INT	ALIGN AUTO		06:00:10 AM Aug 18, 202
			Avg Type:	RMS	TRACE 1 2 3 4 5
	PNO: Wide ++ IFGain:High	. Trig: Free Run #Atten: 0 dB	Avg Hold:	500/500	TYPE A WWWW DET A N N N N
	IFGain:High	#Atten. 0 db			
				MKF1 /	69.168 75 MH
10 dB/div Ref 8.00 dBm					-57.381 dBn
Log		Ĭ			
-2.00					
-12.0					
-22.0					
-32.0					
-42.0					
-52.0 1					DL1 -52.00 dB
-62.0					
-62.0	A				
-72.0	and the second of the second o				
-82.0					
-62.0					
Start 769.000 MHz		· · · · · · · · · · · · · · · · · · ·			Stop 775.000 MH 9.60 ms (8001 pts
#Res BW 6.8 kHz	#VB	W 22 kHz*		Sweep 4	9.60 ms (8001 pts

 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

 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBm)

 Result

 4
 799.13
 -72.98
 -52
 Pass

RL RF 50 Ω DC CORREC	SENSE:INT	ALIGN AUTO	06:01:17 AM Aug 18, 20
	PNO: Wide ↔ Trig: Free Run IFGain:High #Atten: 0 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 9 TYPE A WWW DET A N N N
dB/div Ref 8.00 dBm		Mkr	1 799.127 750 MH -72.975 dBi
00			
2.0			
2.0			
.0			
.0			
.0			DL1 -52.00 c
.0			
			enel let nage in stranger av en finsker en gevyndry ar strad de e
.0			
art 799.000 MHz Res BW 6.8 kHz	#VBW 22 kHz*	Swei	Stop 806.000 Mi ep 57.60 ms (8001 pt



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per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band n12.

FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

RF conducted emissions testing was performed only on one port. The AHLBA antenna ports are essentially electrically

RF conducted emissions testing was performed only on one port. The AHLBA 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.



						TbtTx 2022.05.02.0	XMit 2022.02		
EUT:	AHLBA				Work Order:	NOKI0046			
Serial Number:	K9180844519			Date:	18-Aug-22				
Customer:	Nokia Solutions and Netwo	orks		Temperature:	20 °C				
Attendees:			Humidity: 60% RH						
Project:				Barometric Pres.: 1017 mbar					
	Marty Martin		Power: 54 VDC		Job Site:	TX07			
ST SPECIFICATI	IONS		Test Method						
C 27:2022			ANSI C63.26:2015						
C 90R:2022			ANSI C63.26:2015						
		he reference level offest including any attenua	ators, filters, and DC blocks. Carriers v	vere enabled at maximum p	oower.				
	I TEST STANDARD								
one onfiguration #	2	Signature	Marti						
			Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result		
rt 1	5G NR, Band n12, 729 - 745 5 MHz Bandwic	dth							
	Q	PSK Modulation							
		Low Channel, 731.5 MHz	1	729	-25.26	-19	Pass		
		Low Channel, 731.5 MHz	2	728.9	-22.9	-19	Pass		
		High Channel, 742.5 MHz	1	745	-25.07	-19	Pass		
		High Channel, 742.5 MHz	2	745.1	-24.23	-19	Pass		
	16	6QAM Modulation							
		Low Channel, 731.5 MHz	1	729	-25.36	-19	Pass		
		Low Channel, 731.5 MHz	2	728.9	-22.93	-19	Pass		
		High Channel, 742.5 MHz	1	745	-24.83	-19	Pass		
		High Channel, 742.5 MHz	2	745.1	-24.03	-19	Pass		
	62	4QAM Modulation	1	700	05.00	10	Deer		
		Low Channel, 731.5 MHz Low Channel, 731.5 MHz	1 2	729 728.9	-25.26 -23.23	-19 -19	Pass Pass		
		High Channel, 742.5 MHz	2	726.9	-25.31	-19	Pass Pass		
		High Channel, 742.5 MHz	2	745.1	-23.8	-19	Pass		
	25	56QAM Modulation	۷	740.1	-23.0	-19	F 455		
	20	Low Channel, 731.5 MHz	1	729	-24.78	-19	Pass		
		Low Channel, 731.5 MHz	2	728.9	-23.01	-19	Pass		
		High Channel, 742.5 MHz	1	745	-25.16	-19	Pass		
		High Channel, 742.5 MHz	2	745.1	-24.15	-19	Pass		
	10 MHz Bandw 25		-						
		Low Channel, 734 MHz	1	729	-28.11	-19	Pass		
		Low Channel, 734 MHz	2	728.9	-23.32	-19	Pass		
		High Channel, 740 MHz	1	745	-29.13	-19	Pass		
		High Channel, 740 MHz	2	745.1	-24.25	-19	Pass		
	15 MHz Bandw 25	ridth 56QAM Modulation							
		Low Channel, 736.5 MHz	1	729	-28.19	-19	Pass		
							_		
		Low Channel, 736.5 MHz	2	728.9	-23.76	-19	Pass		
		Low Channel, 736.5 MHz High Channel, 737.5 MHz	2 1	728.9 745	-23.76 -28.23	-19 -19	Pass Pass		



,	Frequency		5 MHz Bandwidth, ( Measured	Max Value	Limit	,	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		729	-25.26	-19	Pass	
Keysight Spectrum Analyze	r - Element Materials Techr 50 Ω DC CORREC		SENSE:INT	ALIGN AUTO		ت است 10:11:01 AM Aug 16	
	JUSE DE CONNEC	-		Avg Type:		TRACE 1 2 3	3 4 5 6
		PNO: Wide	Trig: Free Run #Atten: 30 dB	Avg Hold:	500/500	TRACE 1 2 3 TYPE A WY DET A N	
Pet Offe	et 40.9 dB				Mkr1	729.000 000 M	ИHz
10 dB/div Ref 40.	90 dBm					-25.262 d	Bm
Log			Ť				
30.9							
20.9							
10.9							
0.900							
0.900							
-9.10							
-19.1			1			DL1 -19.	00 dBm
-29.1							
-39.1							
-49.1							
Start 728.9000 MH	z		<b>A</b>			Stop 729.1000	
#Res BW 30 kHz		#VB\	№ 91 kHz*		#Sweep	1.067 ms (8001	
MSG				STATUS			
Devit 4	OND Dand ato				Law Cha		
Port 1, 5	G NR, Band n12, <i>i</i> Frequency	29 - 745 IVINZ, 5	5 MHz Bandwidth, ( Measured	APSK Modulation	n, Low Channe Limit	el, 731.5 MHZ	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	2		728.9	-22.9	-19	Pass	٦

Keysight Spectrum Analyzer - Element Materials           RL         RF         50 Ω         DC         CO		ALIGN AUTO	10:11:31 AM Aug 16, 20
	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 5 TYPE A WWW DET A N N N
Ref Offset 40.9 dB dB/div Ref 40.90 dBm		N	lkr1 728.900 MF -22.897 dB
0.9			
0.9			
10			
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		unin manager and the second	
.1			
			04 704.00 M
art 705.00 MHz Res BW 100 kHz	#VBW 300 kHz*	Sweep	Stop 734.00 Mi 1.600 ms (8001 pt
		STATUS	



	Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1		745	-25.07	-19	Pass
	rum Analyzer - Element Materials Te					
LXIRL	RF 50 Ω DC CORR	EC	SENSE:INT	ALIGN AUTO Avg Type:	DMS	10:32:16 AM Aug 16, 2022 TRACE 1 2 3 4 5 6
		PNO: Wide ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Hold:		
	Ref Offset 40.9 dB				Mkr1 74	5.000 000 MHz
10 dB/div Log	Ref 40.90 dBm					-25.072 dBm
209			l ľ			
30.9						
20.9						
10.9						
0.900						
-9.10						
						DL1 -19.00 dBm
-19.1			1			DC1 -19.00 dBhi
-29.1						
-39.1						
-49.1						
						745 4000 541
Start 744.9 #Res BW 3		#\/B	W 91 kHz*			top 745.1000 MHz 067 ms (8001 pts)
MSG	• MIL	<i>"</i> •••	······································	STATUS	"enveep n	our mo (ovor pro)
				014100		
P	Port 1, 5G NR, Band n12	729 - 745 Mbz	5 MHz Bandwidth	OPSK Modulation	High Channel 7	42 5 MHz
	Frequency	. 20 1 10 10112,	Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2		745.1	-24.23	-19	Pass

RL	ctrum Analyzer - Element N RF 50 Ω DC		- 57	SENSE:INT		ALIGN AUTO		10:34:	20 AM Aug 16, 20
	_		PNO: Fast ++		Run dB	Avg Type: Avg Hold:			TRACE 1 2 3 4 5 TYPE A WWW DET A NNN
dB/div	Ref Offset 40.9 dB Ref 40.90 dBm							Mkr1 74	5.100 MH I.229 dBi
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10									
.1		~	<u></u> 1						DL1 -19.00 c
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.1									
art 730. les BW	00 MHz 100 kHz		#VE	3W 300 kHz	*		Swe	Stop ep 2.133 n	770.00 MH ns (8001 pt
						STATUS			



		nd n12, 729 - 74 <b>uency</b>		leasured	Max Value	Limit		
		nge		req (MHz)	(dBm)	< (dBm)	Result	
		1		729	-25.36	-19	Pass	
	ım Analyzer - Element M							
	RF 50 Ω DC		SENSE:II	σ	ALIGN AUTO		10:13:12 AM Aug 16, 2	022
			Wide 🛶 Trig	: Free Run en: 30 dB	Avg Type:   Avg Hold: 5		TRACE 1 2 3 4 TYPE A WWA DET A N N N	5.6
R 10 dB/div	tef Offset 40.9 dB Ref <b>40.90 dB</b> m					Mkr1 72	9.000 000 MI -25.360 dB	
Log				Ť				
30.9								
20.9								
10.9								
0.900								
-9.10								_
-19.1							DL1 -19.00	dBm
					~~~~~			
-29.1								
-39.1								
-49.1								
Start 728.90	00 MHz					S	top 729.1000 M	Hz
#Res BW 30			#VBW 91	kHz*	STATUS	#Sweep 1.	067 ms (8001 p	ts)
Po					6QAM Modulation		731.5 MHz	
		uency nge		/leasured req (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
		nge 2	F	728.9	-22.93	-19	Pass	

RL RF 50 Ω DC COI	REC SENSE:INT	ALIGN AUTO	10:13:46 AM Aug 16, 20
	PNO: Fast ↔→ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 9 TYPE A WWW DET A N N N
Ref Offset 40.9 dB 0 dB/div Ref 40.90 dBm			Mkr1 728.900 MH -22.933 dB
0.9			rvvv.
.9			
00			
10			<b>1</b> DL1 -19.00
.1			
.1			
art 705.00 MHz			Stop 734.00 M
Res BW 100 kHz	#VBW 300 kHz*	Swee	ep 1.600 ms (8001 p
3		STATUS	



	Frequenc	/	Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1		745	-24.83	-19	Pass
	trum Analyzer - Element Materials					- 6 <b>-</b>
(XIRL	RF 50 Ω DC CO	RREC	SENSE:INT	ALIGN AUTO Avg Type:	DMS	10:36:05 AM Aug 16, 2022 TRACE 1 2 3 4 5 6
		PNO: Wide IFGain:Low	+ Trig: Free Run #Atten: 30 dB	Avg Hold:	500/500	TYPE A WWWWW DET A NNNN
	Ref Offset 40.9 dB Ref 40.90 dBm				Mkr1 74	5.000 000 MHz -24.834 dBm
Log			The second secon			
30.9						
20.9						
20.0						
10.9						
10.0						
0.900						
-9.10						
-19.1						DL1 -19.00 dBm
			·			
-29.1						
-39.1						
-49.1						
Start 744.9	000 MHz				Si	top 745.1000 MHz
#Res BW 3			#VBW 91 kHz*		#Sweep 1.	067 ms (8001 pts)
MSG				STATUS		
P			hz, 5 MHz Bandwidth, 1		, 0 ,	742.5 MHz
	Frequenc	/	Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2		745.1	-24.03	-19	Pass

Keysight Spectrum Analyzer - Element Mate	rials Technology CORREC	SENSE:INT	ALIGN AUTO	10:37:04 AM Aug 16, 2022
	PNO: Fast ↔ IFGain:Low		Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 5 TYPE A WWWW DET A N N N N
Ref Offset 40.9 dB 0 dB/div Ref 40.90 dBm				Mkr1 745.100 MH -24.027 dBr
30.9	rm			
0.9				
0.9				
300				
9.1				DL1 -19.00 dł
9.1	and t	www.www.www.		
3.1				
9.1				
tart 730.00 MHz Res BW 100 kHz	#VI	BW 300 kHz*	Swe	Stop 770.00 MH eep 2.133 ms (8001 pts
SG			STATUS	



Po	rt 1, 5G NR, Band n12, 7 Frequency	29 - 745 Minz, 5	Measured	AQAM Modulatio	h, Low Channel,	731.5 MHZ	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		729	-25.26	-19	Pass	
	m Analyzer - Element Materials Tech					- P	
LXIRL	RF 50 Ω DC CORREC	SI	ENSE:INT	ALIGN AUTO Avg Type:	RMS	10:15:03 AM Aug 16, 20 TRACE 1 2 3 4	5.6
		PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 5	600/500		NN NN
R	ef Offset 40.9 dB ef <b>40.90 dBm</b>				Mkr1 72	9.000 000 MH -25.257 dB	
10 dB/div R	er 40.90 dBm		•			20.201 00	
30.9							
20.9							
20.3							
10.9							
0.900							
							_
-9.10							
-19.1						DL1 -19.00 d	Bm
			• ·				
-29.1							
-39.1							
-49.1							
Start 728.90		I				top 729.1000 Mi	
#Res BW 30	kHz	#VBV	V 91 kHz*		#Sweep 1	.067 ms (8001 pt	:s)
MSG				STATUS			
Po	rt 1, 5G NR, Band n12, 7	29 - 745 Mhz 5	MHz Bandwidth	40AM Modulatio	n Low Channel	731 5 MHz	
10	Frequency	20 110 10112, 0	Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	2		728.9	-23.23	-19	Pass	

RL RF 50 Ω DC COF	RREC SENSE:INT	ALIGN AUTO	10:16:07 AM Aug 16, 20
	PNO: Fast ↔ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 TYPE A WWW DET A N N N
Ref Offset 40.9 dB dB/div Ref 40.90 dBm			Mkr1 728.900 MH -23.225 dB
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1			
art 705.00 MHz tes BW 100 kHz	#VBW 300 kHz*	Swee	Stop 734.00 M p 1.600 ms (8001 p
		STATUS	



Frequency		Measured	Max Value	Limit	
Range		Freq (MHz)	(dBm)	< (dBm)	Result
1		745	-25.31	-19	Pass
					- F ×
50 Ω DC CORRE	EC	SENSE:INT		RMS	10:38:35 AM Aug 16, 2022 TRACE 1 2 3 4 5 6
	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 30 dB			TYPE A WWWWW DET A N N N N
et 40.9 dB 90 dBm				Mkr1 74	5.000 000 MHz -25.310 dBm
		Ť			
					DL1 -19.00 dBm
7		<b>k</b>			top 745.1000 MHz
	#VB	W 91 kHz*			.067 ms (8001 pts)
			STATUS		
	729 - 745 Mhz, 5				742.5 MHz
Frequency					
Range 2	1	Freq (MHz) 745.1	(dBm) -23.8	-19	Result Pass
	Range 1 - Element Materials Tec 50 Q DC CORRU - CORU	Range         1         r-Element Materials Technology         50 Q DC CORREC         PNO: Wide         #EGain:Low         et 40.9 dB         90 dBm         Image: Image         Image: Image         Image: Image         Image: Image	Range       Freq (MHz)         1       745         r-Element Materials Technology       58NSE.INT         PNO: Wide       →         Trig: Free Run       #Atten: 30 dB         90 dBm       Image: Sense:INT         Image: Sense:INT       Image: Sense:INT         PNO: Wide       →         Trig: Free Run       #Atten: 30 dB         90 dBm       Image: Sense:INT         Image: Sense:INT       Image: Sense:INT         PNO: Wide       →         Trig: Free Run       #Atten: 30 dB         90 dBm       Image: Sense:INT         Image: Sense:INT       Image: Sense:INT         PNO: Wide       →         Trig: Free Run       #Atten: 30 dB         90 dBm       Image: Sense:INT         Image: Sense:INT       Image: Se	Range     Freq (MHz)     (dBm)       1     745     -25.31         r-Element Materials Technology     SENSE.INT     ALIGN AUTO       50 Q DC     CORREC     SENSE.INT     ALIGN AUTO         PNO: Wide     →     Trig: Free Run     AvglHold: \$   AvglHold: \$       2     #VBW 91 kHz*   STATUS       NR, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation       Freq (MHz)     Max Value       Range     Freq (MHz)     (dBm)	Range         Freq (MHz)         (dBm)         < (dBm)           1         745         -25.31         -19 r-Element Materials Technology S0 0 DC CORREC SENSE:INT ALIGN AUTO PNO: Wide → Trig: Free Run IF Gain:Low PNO: Status PNO: Status

Keysight Spectrum Analyze	50 Ω DC CORRE		SENSE:INT	ALIGN AUTO		10:39:26	AM Aug 16, 20
		PNO: Fast ↔ IFGain:Low	→ Trig: Free Run #Atten: 30 dB	Avg Type: F Avg Hold: 50		TR	ACE 1 2 3 4 1 YPE A WWW DET A NNNI
Ref Offso dB/div Ref 40.	et 40.9 dB 90 dBm				I	Mkr1 745. -23.	100 MH 798 dBi
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							DL1 -19.00 d
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9.1							
art 730.00 MHz Res BW 100 kHz		#VE	SW 300 kHz*		Swee	5 Stop p 2.133 ms	70.00 MH (8001 pt
3		an a	ne na har start hen.	STATUS			



	Frequency	45 Mhz, 5 MHz Bandwidth, 2 Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBm)	< (dBm)	Result
	1	729	-24.78	-19	Pass
X RL RF	PNC	SENSE:INT D: Wide → Trig: Free Run ain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: f Avg Hold: 5	00/500	10:24:07 AM Aug 16, 2022 TRACE 2 3 4 5 6 TYPE A WWW NN N DET A NN NN N 29.000 000 MHz
10 dB/div Ref	40.90 dBm				-24.775 dBm
30.9       20.9       10.9       .900       -9,10       -19,1       -39,1       -49,1					DL1 -19.00 dBm
Start 728.9000	MHz			s	top 729.1000 MHz
#Res BW 30 kl		#VBW 91 kHz*			.067 ms (8001 pts)
MSG			STATUS		
Port 1		45 Mhz, 5 MHz Bandwidth, 2			731.5 MHz
	Frequency	Measured	Max Value	Limit	
	Range 2	Freq (MHz) 728.9	(dBm) -23.01	<ul> <li>(dBm)</li> <li>-19</li> </ul>	Result Pas

RL	RF	50 Ω D	Materials Tech		SENSE:IN	π	ALIGN AUTO		10:	24:46 AM Aug 16, 20
				PNO: Fast IFGain:Low	↔ Trig #Att	: Free Run en: 30 dB		pe: RMS Id: 500/500		TRACE 1 2 3 4 TYPE A WWW DET A NNN
dB/div	Ref Offs Ref 40	et 40.9 d .90 dBr	B N						Mkr1 7 -2	28.900 MH 23.008 dB
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10										
.1									1_	DL1 -19.00 c
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.1										
0.1										
	00 MHz 100 kHz			#	VBW 300	) kHz*		Swe	Sto ep 1.600	p 734.00 Mi ms (8001 pt
3	and south and the second	Sector Sector	an tanàn tanàn tanàn t	and the second state of the second		territy of the state of the	STATUS			Concerning Street Street



Fre	quency		Measured	Max Value	Limit		
F	lange		Freq (MHz)	(dBm)	< (dBm)	Re	esult
	1		745	-25.16	-19	F	ass
		logy	CENCE-INT			10:47:0	🗖 🗗 🔁 🔜
J J032 D	CONNEC			Avg Type:		Т	RACE 1 2 3 4 5 6
		PNO: Wide ++ IFGain:Low	#Atten: 30 dB	Avg Hold: 5	00/500		DET A NNNNN
f Offert 40 9 d	R				Mkr1		
ef 40.90 dBr	n					-25	.157 dBm
			l ľ				
			1				DL1 -19.00 dBm
					_		
0 MHz							5.1000 MHz
KHZ		#VE	W 91 kHz*		#Sweep	1.067 m	s (8001 pts)
				STATUS			
1. 5G NR. Ba	and n12, 729	) - 745 Mhz 5	MHz Bandwidth 25	60AM Modulatio	n. High Chanr	nel. 742.5 I	MHz
			Measured	Max Value	Limit	,2.0	
			Freq (MHz)	(dBm) -24.15	< (dBm) -19	Re	esult
	Analyzer - Element F 50 Ω D f Offset 40.9 d f 40.90 d f 7 f 7 f 8 f 8 f 8 f 8 f 8 f 8 f 8 f 8	Range         1         Analyzer - Element Materials Technologie         f Offset 40.9 dB         ef 40.90 dBm	Range         1         Analyzer - Element Materials Technology         y Analyzer - Element Materials Technology         y F       50 Ω DC         CORREC         PNO: Wide         PNO: Wide         +         f Offset 40.9 dB         ef 00ffset 40.90 dBm         0 MHz         kHz         #VE         1, 5G NR, Band n12, 729 - 745 Mhz, 5         Frequency	Range       Freq (MHz)         1       745         Analyzer - Element Materials Technology       F         F       50 Ω       DC       CORREC         PNO: Wide       →       Trig: Free Run #Atten: 30 dB         f Offset 40.9 dB       Image: Constant of the second of the secon	Range       Freq (MHz)       (dBm)         1       745       -25.16         Analyzer - Element Materials Technology       F       50 Ω DC       CORREC       SENSE:INT       ALION AUTO         F       50 Ω DC       CORREC       SENSE:INT       ALION AUTO       Avg Type: I         PNO: Wide       →       Trig: Free Run       AvgIHoid: 5         f       Offset 40.9 dB       Image: Trig: Free Run       AvgIHoid: 5         f       Offset 40.9 dB       Image: Trig: Free Run       AvgIHoid: 5         f       OMHZ       Image: Trig: Free Run       Trig: Free Run         Image: Trig: Free Run       Free Run       Free Run       AvgIHoid: 5         f       OMHZ       Image: Trig: Free Run       Free Run       AvgIHoid: 5         f       Free Run       Free Run       Free Run       AvgIHoid: 5         f       Free Run       Free Run       Free Run       Free Run         f       Free Run       Free Run       Free Run       Free Run         f       Free Run       Free Run       Free Run       Free Run         f       Free Run       Free Run       Free Run       Free Run         f       Free Run       Free Run <td< td=""><td>Range       Freq (MHz)       (dBm)       &lt; (dBm)         1       745       -25.16       -19         Manalyzer - Element Materials Technology       Augnature       Augnature       -19         Manalyzer - Element Materials Technology       For connect       SENSE:INIT       Augnature       Augnature         F       50.9       DC       CORREC       SENSE:INIT       Augnature       Augnature         PNO: Wide       Trig: Free Run #Atten: 30 dB       Trig: Free Run #Atten: 30 dB       Mkr1         Offset 40.9 dB       Mkr1       Mkr1       Mkr1         of df augnature       Max Value       Mkr1         of df augnature       Max Value       Max Value         of MHz       KVEW 91 KHz*       #Sweep         traus       Max Value       Limit         Range       Freq (MHz)       (dBm)       &lt; (dBm)</td></td<>	Range       Freq (MHz)       (dBm)       < (dBm)         1       745       -25.16       -19         Manalyzer - Element Materials Technology       Augnature       Augnature       -19         Manalyzer - Element Materials Technology       For connect       SENSE:INIT       Augnature       Augnature         F       50.9       DC       CORREC       SENSE:INIT       Augnature       Augnature         PNO: Wide       Trig: Free Run #Atten: 30 dB       Trig: Free Run #Atten: 30 dB       Mkr1         Offset 40.9 dB       Mkr1       Mkr1       Mkr1         of df augnature       Max Value       Mkr1         of df augnature       Max Value       Max Value         of MHz       KVEW 91 KHz*       #Sweep         traus       Max Value       Limit         Range       Freq (MHz)       (dBm)       < (dBm)	Range         Freq (MHz)         (dBm)         < (dBm)         Rd           1         745         -25.16         -19         F           Analyzer - Bernent Materials Technology         F         50 R         DC         CORREC         SENSE.INT         ALIGN MUTO         10:47:0           PNO: Wide         →         Trig: Free Run #Atten: 30 dB         Mkr1 745.0000         T           f 007set 40.9 dB          Mkr1 745.000         -25           f 40.90 dBm          -25         Avglihoid: 5000500         -25           f 40.90 dBm           -25         -25           f 40.90 dBm            -25           f 40.90 dBm <tr< td=""></tr<>

RL	RF 50	Ω DC	CORREC			SENSE:INT	ALIG	V AUTO	a series and the series of	10:47:5	53 AM Aug 16, 20
	_			PNO: Fast IFGain:Low				Avg Type: R Avg Hold: 50			TYPE A WWW DET A NNN
dB/div	Ref Offset 4 Ref 40.90	0.9 dB dBm							Μ	kr1 745 -24	5.100 MH .150 dBi
.9			~	· · · · · · · · · · · · · · · · · · ·							
.9											
.9											
0											DL1 -19.00 (
		مسمعهم			Ľ	·····					
.1							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	······································	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
.1											
.1											
art 730.0 les BW 1				#	VB	W 300 kHz*			Sweep	Stop 2.133 m	770.00 Mi is (8001 pi
								STATUS		No. All No. of Concession	



	1, 5G NR, Band n12, Frequency	,,	Measured	Max Value	Limit	,
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1		729	-28.11	-19	Pass
	n Analyzer - Element Materials Teo					
LXI RL F	RF 50 Ω DC CORRE	EC SI	ENSE:INT	ALIGN AUTO Avg Type:	RMS	11:41:19 AM Aug 16, 2022 TRACE 1 2 3 4 5 6
		PNO: Wide 🔸	Trig: Free Run	Avg Hold:	500/500	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N
		IFGain:Low	#Atten: 30 dB			
	f Offset 40.9 dB				MKr1	729.000 000 MHz -28.106 dBm
10 dB/div Re	ef 40.90 dBm					-20. 100 UBIII
30.9						
20.9						
10.9						
0.900						
-9.10						
						DL1 -19.00 dBm
-19.1			1			OCT -19.00 dom
			<b>∲ '</b>			
-29.1						
-39.1						
-38.1						
-49.1						
Start 728.900						Stop 729.1000 MHz
#Res BW 30	KHZ	#VBV	/ 91 kHz*		#Sweep	1.067 ms (8001 pts)
MSG				STATUS		
D	4 COND David 40	700 745 Mb- 40			tion Low Ober	
Pon	1, 5G NR, Band n12, Frequency	729 - 745 IVINZ, 10	Measured	256QAM Modula Max Value	Lion, Low Char	IIIei, 734 IVIHZ
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2	1	728.9	-23.32	-19	Pass

Keysight Spectrum Analyzer - Element Materials Te           RL         RF         50 Ω         DC         CORR		ALIGN AUTO	11:42:05 AM Aug 16, 20
NE   N   50 52 DC   CORR	LC JUNDEANN	Avg Type: RMS	TRACE 1 2 3 4
	PNO: Fast $\leftrightarrow \rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 500/500	
Ref Offset 40.9 dB ) dB/div Ref 40.90 dBm		r	/kr1 728.900 Mi -23.315 dB
pg			
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10			
			, <b>1</b> DL1 -19.00)
0.1			
9.1			
.1	man and a second s		
9.1			
art 705.00 MHz			Stop 734.00 M
Res BW 100 kHz	#VBW 300 kHz*	Sweep	o 1.600 ms (8001 p
3		STATUS	



	1, 5G NR, Band n12, 72 Frequency		Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		745	-29.13	-19	Pass	
	Analyzer - Element Materials Techr						
LXI RL RI	F 50 Ω DC CORREC	SE	NSE:INT	ALIGN AUTO Avg Type:	RMS	11:52:22 AM Aug 16, 2 TRACE 12 3 4	022
		PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: (		TRACE 1 2 3 4 TYPE A WWW DET A N N N	N N
Rei	f Offset 40.9 dB				Mkr1	745.000 000 MI	
10 dB/div Re	f 40.90 dBm					-29.130 dB	m
209							
30.9							
20.9							
10.9							
0.900							
-9.10							
						DL1 -19.00	NBIR
-19.1			4				
-29.1			↓ <sup>1</sup>				
-29.1							
-39.1							
-49.1							
Start 744.900						Stop 745.1000 M	47
#Res BW 30 k		#VBW	91 kHz*		#Sweep	1.067 ms (8001 p	
MSG				STATUS		and the out- web capit-out-	
Port	1, 5G NR, Band n12, 72	29 - 745 Mhz, 10	MHz Bandwidth, 2	256QAM Modulat	ion, High Cha	nnel, 740 MHz	
	Frequency		Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	2		745.1	-24.25	-19	Pass	

RL	RF	50 Ω	DC (	ORREC			SENSE:INT		ALIGN AUTO		11:53:	03 AM Aug 16, 20
					PNO: Fast IFGain:Low				Avg Type: F Avg Hold: 5			TYPE A WWW DET A NNN
dB/div	Ref Of Ref 4	fset 40.9 0.90 dE	dB im							N		5.100 MH I.249 dBi
).9			A-0-14-00-0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								
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o												
.1						1						DL1 -19.00 c
.1	· ····································	~/				hin	- manual and	·····	man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
.1												
.1												
	.00 MH:										Stop	770.00 Mi
es BW	100 kH	z			#	٧B	W 300 kHz	\$		Sweep	2.133 m	ns (8001 pt



Por	Frequer		nz, 15 MHz Bandwidth, 2 Measured	Max Value	Limit	, 730.3 IVIHZ
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1	-	729	-28.19	-19	Pass
			125	-20.19	-13	1 455
	um Analyzer - Element Materi					
LXI RL	RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO Avg Type:	PMS	04:36:06 AM Aug 17, 20 TRACE 1 2 3 4
		PNO: Wide IFGain:Lov		Avg Hold:		TYPE A WWW DET A NNNI
F	Ref Offset 40.9 dB				Mkr1 72	9.000 000 MH
10 dB/div	Ref 40.90 dBm					-28.193 dB
3			Ť			
30.9						
20.9						
10.9						
0.900						
-9.10						
-19.1						DL1 -19.00 d
			1			
-29.1				~		
-39.1						
-49.1						
Start 728.90 #Res BW 30			#VBW 91 kHz*			top 729.1000 Mi .067 ms (8001 pt
#Res BW Ju				STATUS	"eweep I	
Dom				STATUS		
Por	t 1, 5G NR, Band n′	12, 729 - 745 Mi	nz, 15 MHz Bandwidth, 2	256QAM Modulat	ion, Low Channel	, 736.5 MHz
	Frequer		Measured	Max Value	Limit	
	Range	9	Freq (MHz)	(dBm)	< (dBm)	Result
	2		728.9	-23.76	-19	Pass

RL	RF 50 Ω C	CORREC		SENSE:INT	ALIGN AUTO		04:36:40	AM Aug 17, 20
			PNO: Fast ↔→ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold:			RACE 1 2 3 4 S TYPE A WWW DET A NNN
) dB/div	Ref Offset 40.9 c Ref 40.90 dBi	IB M				P	Vlkr1 728 -23.	.900 MF 758 dBi
0.9								
0.9								
0.9								
00								
.10								
9.1							1	DL1 -19.00 d
9.1						, mar	للسر	
9.1			www.www.www.www					
9.1								
ort 705	00 MHz						Stop	734.00 MI
	100 kHz		#VB	W 300 kHz*		Sweep	5.007 1.600 ms	s (8001 pt
3		and an experience of the	Sector Sector Sector		STATUS			



	Frequency		Measured	Max Value	Limit	
	Range	-,	Freq (MHz)	(dBm)	< (dBm)	Result
	1		745	-28.23	-19	Pass
	m Analyzer - Element Materials Te RF 50 Ω DC CORR		SENSE:INT	ALIGN AUTO		04:42:32 AM Aug 17, 2022
		PNO: Wide IFGain:Low	Trive Free Days	Avg Type: Avg Hold:		TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N
	ef Offset 40.9 dB ef 40.90 dBm				Mkr1 74	5.000 000 MHz -28.234 dBm
			The second secon			
30.9						
20.9						
10.9						
10.9						
0.900						
-9.10						
-19.1						DL1 -19.00 dBm
-29.1			<sup>1</sup>			~
-39.1						
-49.1						
Start 744.900 #Res BW 30		#	VBW 91 kHz*			top 745.1000 MHz .067 ms (8001 pts)
MSG				STATUS		
Dent	1, 5G NR, Band n12, 7	20 74E M4-	15 MHz Bondwight	EGOAM Modulati	on High Channel	
Port	Frequency	29 - 743 MINZ	, 15 MHZ Bandwidth, 2 Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2		745.1	-23.1	-19	Pass

RL RF 50 Ω DC CORREC	ology SENSE:INT	ALIGN AUTO	04:43:08 AM Aug 17, 20
	PNO: Fast ↔→ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 3 TYPE A WWW DET A N N N
Ref Offset 40.9 dB dB/div Ref 40.90 dBm			Mkr1 745.100 MH -23.103 dB
3.9			
0.9			
10			
.1			DL1 -19.00 (
	Chamber and the second se	······································	
.1			
.1			
			04 770.00 04
art 730.00 MHz Res BW 100 kHz	#VBW 300 kHz*	SW	Stop 770.00 MI reep 2.133 ms (8001 p



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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

For Band n14 band edge measurements from 769MHz-775MHz and 799MHz-805MHz, reference level offset corrections were applied to the spectrum analyzer, according to the following table:

Frequency	Sig Gen Output	Analyzer Reading	Cable Loss
769	0.0	-48.1	48.1
769.05	0.0	-47.7	47.7
769.1	0.0	-47.4	47.4
769.15	0.0	-47.1	47.1
769.2	0.0	-46.8	46.8
769.25	0.0	-46.6	46.6
769.3	0.0	-46.4	46.4
769.35	0.0	-46.2	46.2
769.4	0.0	-46.0	46.0
769.45	0.0	-45.8	45.8
769.5	0.0	-45.7	45.7
769.55	0.0	-45.5	45.5
769.6	0.0	-45.4	45.4
769.65	0.0	-45.3	45.3
769.7	0.0	-45.2	45.2
769.75	0.0	-45.1	45.1
769.8	0.0	-45.0	45.0
769.85	0.0	-44.9	44.9
769.9	0.0	-44.8	44.8
769.95	0.0	-44.7	44.7
770	0.0	-44.7	44.7
770.05	0.0	-44.6	44.6
771	0.0	-43.7	43.7
775	0.0	-43.2	43.2
798	0.0	-42.5	42.5
805	0.0	-42.2	42.2
806	0.0	-42.2	42.2

Per section 90.543(e)(3), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band n14.

FCC 90.543(e)(5) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 90.543(e)(5) requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

FCC 90.543(e)(1) requires an emission limit of -46dBm for any 6.25 kHz bandwidth between frequency bands 769-775 MHz and 799-805 MHz. The limit is adjusted to -52 dBm per 6.25kHz bandwidth [-46 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

RHH conducted emissions testing was performed only on one port. The AHLBA 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.



						TbtTx 2022.05.02.0	XMit 2022.
EUT: A	HLBA				Work Order:		
Serial Number:						19-Aug-22	
Customer:	okia Solutions and Net	works			Temperature:		
Attendees:					: 57% RH : 1018 mbar		
Project:				Barometric Pres.:			
Tested by:				Job Site:			
EST SPECIFICATIO				000 0101			
C 27:2022			Test Method ANSI C63.26:2015				
CC 90R:2022			ANSI C63.26:2015				
OMMENTS			ANOI 003.20.2013				
	h loses accounted for in	n the reference level offest including any atten	uators, filters, and DC blocks. Carriers v	vere enabled at maximum p	oower.		
EVIATIONS FROM	TEST STANDARD						
one							
onfiguration #	2, 4	Signature	Marti				
		e granare	Frequency	Measured	Max Value	Limit	
			Range	Freq (MHz)	(dBm)	< (dBm)	Result
ort 1	OND David #44 750 7	20.145-					
5	G NR, Band n14, 758 - 76						
	5 MHz Bandy	QPSK Modulation					
		Low Channel, 760.5 MHz	1	750	05.00	40	Deer
			2	758 757.9	-25.08 -23.14	-19	Pass Pass
		Low Channel, 760.5 MHz				-19	
		High Channel, 765.5 MHz	1	768	-26.78	-19	Pass
		High Channel, 765.5 MHz	2	768.1	-26.7	-19	Pass
		High Channel, 765.5 MHz	3	769.18	-59.15	-52	Pass
		High Channel, 765.5 MHz	4	799.81	-72.86	-52	Pass
		16QAM Modulation					-
		Low Channel, 760.5 MHz	1	758	-25.09	-19	Pass
		Low Channel, 760.5 MHz	2	757.9	-23.07	-19	Pass
		High Channel, 765.5 MHz	1	768	-26.62	-19	Pass
		High Channel, 765.5 MHz	2	768.1	-26.5	-19	Pass
		High Channel, 765.5 MHz	3	769.13	-59.65	-52	Pass
		High Channel, 765.5 MHz	4	799.54	-72.92	-52	Pass
		64QAM Modulation					
		Low Channel, 760.5 MHz	1	758	-24.54	-19	Pass
		Low Channel, 760.5 MHz	2	757.9	-23.17	-19	Pass
		High Channel, 765.5 MHz	1	768	-27.06	-19	Pass
		High Channel, 765.5 MHz	2	768.1	-26.35	-19	Pass
		High Channel, 765.5 MHz	3	769.12	-59.36	-52	Pass
		High Channel, 765.5 MHz	4	800.79	-72.96	-52	Pass
		256QAM Modulation					
		Low Channel, 760.5 MHz	1	758	-24.66	-19	Pass
		Low Channel, 760.5 MHz	2	757.9	-23.09	-19	Pass
		High Channel, 765.5 MHz	1	768	-27.06	-19	Pass
		High Channel, 765.5 MHz	2	768.1	-26.83	-19	Pass
		High Channel, 765.5 MHz	3	769.17	-58.96	-52	Pass
		High Channel, 765.5 MHz	4	799.05	-72.94	-52	Pass
	10 MHz Band						
		256QAM Modulation					
		Low Channel, 763.0 MHz	1	758	-29.03	-19	Pass
		Low Channel, 763.0 MHz	2	757.9	-24.15	-19	Pass
		High Channel, 763.0 MHz	-	768	-32.06	-19	Pass
		High Channel, 763.0 MHz	2	768.1	-29.43	-19	Pass
		High Channel, 763.0 MHz	3	769.2	-59.79	-52	Pass
		High Channel, 763.0 MHz	4	800.4	-72.88	-52	Pass
			-	000.4	-12.00	-02	1 435



	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBm)	< (dBm)	Result
	1	758	-25.08	-19	Pass
	rum Analyzer - Element Materials Techn RF 50 Ω DC CORREC	ology SENSE:INT	ALIGN AUTO		06:05:47 AM Aug 17, 2022
	KF 50 SZ DC CORREC		Avg Type:	RMS	TRACE 1 2 3 4 5 6
		PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:	500/500	TRACE 2 3 4 5 6 TYPE A WWWW DET A N N N N N
	Ref Offset 40.9 dB			Mkr1 7	58.000 000 MHz
10 dB/div Log	Ref Offset 40.9 dB Ref 40.90 dBm				-25.084 dBm
30.9					
20.9					
10.9					
0.900					
-9.10					
-19.1					DL1 -19.00 dBm
-29.1					
-39.1					
-49.1					
Start 757.9	000 MHz				Stop 758.1000 MHz
#Res BW 3		#VBW 91 kHz*		#Sweep 1	.067 ms (8001 pts)
MSG			STATUS		
	Port 1 5G NR Band n1/ 7	58 - 768 Mhz, 5 MHz Bandwidth,	OPSK Modulation	Low Channel	760 5 MHz
Г	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBm)	< (dBm)	Result
	2	757.9	-23.14	-19	Pass

RL	RF	zer - Eleme 50 Ω		CORREC		S	ENSE:INT	ALIGN AUTO		06:07:3	8 AM Aug 17, 20
	_				PNO: Fast IFGain:Low		Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold: 5	00/500	IT	RACE 1 2 3 4 1 TYPE A WWW DET A NNN
dB/div	Ref Off	set 40.9 ).90 dE	dB Sm						Mkr1	757.90 -23	0 00 MH 143 dB
.9											
.9											
.9											
0											DL1 -19.00 (
.1									11	Ĺ	Manana
.1	•••	~~~~~		~~~~~	v			and a second			
.1											
art 726. Res BW	00 MHz	7				t/R/	V 300 kHz*		Sween	Stop 3	768.00 Mi s (8001 pi
	Too Min	-					1 000 1112	STATUS	awceb		e (eee r pi



Port 1	, 5G NR, Band n14, 7	758 - 768 Mbz 5	MHz Bandwidth	PSK Modulation	High Channel 7	65 5 MHz	
1011,	Frequency	100 100 1112, 0	Measured	Max Value	Limit	00.0 11112	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		768	-26.78	-19	Pass	
			100	-20.10	-15	1 433	
Keysight Spectrum Ana LXI RL RF	alyzer - Element Materials Tech 50 Ω DC CORREC		ENSE:INT	ALIGN AUTO		06:20:32 AM Aug 17, 2022	
	Jour De Conde			Avg Type:		TRACE 1 2 3 4 5 6	
		PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:	500/500	TYPE A WWWWWW DET A N N N N N	
		IFGain:Low	#Atten: 00 GB		Mkr1 76	8.000 000 MHz	
	ffset 40.9 dB					-26.781 dBm	
10 dB/div Ref 4	10.90 dBm					-20.101 dBm	
30.9							
20.9							
10.9							
0.900							
0.000							
-9.10							
-5.10							
-19.1						DL1 -19.00 dBm	
-15.1			1				
20.4				~			
-29.1							
-39.1							
-49.1							
Start 767.9000	MHz		A		SI	op 768.1000 MHz	
#Res BW 30 kH		#VBV	/ 91 kHz*			067 ms (8001 pts)	
MSG				STATUS			
Port 1.	, 5G NR, Band n14, 7	758 - 768 Mhz. 5	MHz Bandwidth.	<b>QPSK Modulation</b>	n, High Channel. 7	65.5 MHz	
	Frequency		Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	2		768.1	-26.7	-19	Pass	

RL RF 50 Ω DC CORREC	SEI	NSE:INT	ALIGN AUTO	0	6:23:47 AM Aug 17, 20
	PNO: Fast ↔→ IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: RN Avg Hold: 500	IS	TRACE 1 2 3 4 TYPE A WWW DET A N N N
Ref Offset 40.9 dB dB/div Ref 40.90 dBm					3.100 00 MH -26.703 dB
		Ĭ			
.9					
.9					
.9					
0					
1					DL1 -19.00 (
1					
1					
art 758.00 MHz es BW 100 kHz	#\/[D\M	300 kHz*		S #Sweep 7.46	top 808.00 MI



Port 1 50	S NR, Band n14, 758	8 - 768 Mhz 5 I	/Hz Bandwidth		High Channel 7	65 5 MHz
	Frequency	5 - 7 00 Winz, 0 I	Measured	Max Value	Limit	00.0 WHZ
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	3		769.18	-59.15	-52	Pass
<u> </u>	· · · ·					<b>U</b>
Keysinht Spectrum Analyzer	- Element Materials Technolo	any				
XI RL RF			NSE:INT	ALIGN AUTO		06:35:44 AM Aug 17, 2022
	i II	PNO:Wide ↔↔ FGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Avg Hold:		TRACE 123456 TYPE A WWWWW DET A N N N N
					Mkr1 7	69.175 50 MHz
10 dB/div Ref 8.00	) dBm					-59.145 dBm
			Ť			
-2.00						
-12.0						
-22.0						
-32.0						
-42.0						
-52.0						DL1 -52.00 dBm
-62.0						
	Veral many and and					
-72.0	and a second	mon management		ana ana ana ana ana ana ana ana		
-82.0						
Start 769.000 MHz			<b>A</b>			top 775.000 MHz
#Res BW 6.8 kHz		#VBW	22 kHz*			.60 ms (8001 pts)
MSG				STATUS		
Port 1, 5G	S NR, Band n14, 758	3 - 768 Mhz, 5 I				65.5 MHZ
	Frequency		Measured	Max Value (dBm)	Limit < (dBm)	Result
	Range 4		Freq (MHz) 799.81	-72.86	-52	Pass
	4		199.01	-12.00	-02	1 433

RL RF 50 Ω DC CORREC		ENSE:INT	ALIGN AUTO	06:37:39 AM Aug 17, 20
	PNO: Wide ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 3 TYPE A WWW DET A N N N
dB/div Ref 8.00 dBm			M	kr1 799.805 000 MH -72.863 dB
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00				
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				DL1 -52.00 c
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	ي و المريحة الجميرين المريحة الجوارة التريح وال من جوارة مريحة الجوارة التريح وال	-		
.0				
art 799.000 MHz				Stop 206 000 M
art 799.000 MHZ tes BW 6.8 kHz	#VB\	№ 22 kHz*	Sw	Stop 806.000 MI reep 57.60 ms (8001 pi



Poi	rt 1, 5G NR, Band n14, 75	8 - 768 Mhz, 5 N		6QAM Modulation	n, Low Channel	, 760.5 MHz	
	Frequency		Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		758	-25.09	-19	Pass	
	m Analyzer - Element Materials Techno	logy					
LXI RL	RF 50 Ω DC CORREC	SEN	ISE:INT	ALIGN AUTO		06:09:36 AM Aug 17, 2022	
		PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type:   Avg Hold: 5		TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N	
Б	ef Offset 40.9 dB				Mkr1 7	58.000 000 MHz	
10 dB/div R	ef 40.90 dBm					-25.092 dBm	
Log			Y				
30.9							
30.9							
20.9							
20.0							
10.9							
10.5							
0.900							
0.000							
-9,10							
5.10							
-19.1						DL1 -19.00 dBm	
			<b>♦'_</b>				
-29.1							
-39.1							
-49.1							
Start 757.90			04 1/11-*		# <b>O</b>	Stop 758.1000 MHz	
#Res BW 30	КПZ	#vBw	91 kHz*		#Sweep 1	1.067 ms (8001 pts)	
MSG				STATUS			
Do	rt 1, 5G NR, Band n14, 75	8 - 768 Mbz 5 M	1Hz Bandwidth 1	60AM Modulatio	Low Channel	760 5 MHz	
FUI	Frequency	0 - 700 WILZ, 5 W	Measured	Max Value	Limit	, 100.0 IVII IZ	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	2		757.9	-23.07	-19	Pass	

RL	RF 50 Ω DC COF	RREC	SENSE:INT	ALIGN AUTO	avera see	06:10:11	AM Aug 17, 20
		PNO: Fast +++ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500		т	ACE 1 2 3 4 YPE A WWW DET A NNN
dB/div	Ref Offset 40.9 dB Ref 40.90 dBm				Mkr	757.900 -23.0	0 00 MH 071 dB
).9					$\neg \gamma$	M	
).9							
.9							
0							
io							
.1					_ <b>1</b>		DL1 -19.00
.1							mon
.1							
.1							
art 726.						Stop 7	68.00 MI
les BW	100 kHz	#VB	W 300 kHz*		Sweep	2.133 ms	(8001 p



101(1,0)	G NR, Band n14, 7 Frequency	00 - 700 Winz, 01	Measured	Max Value	Limit	ci, 700.0 Ivi	112
	Range		Freq (MHz)	(dBm)	< (dBm)	Re	sult
	1		768	-26.62	-19	Pa	ass
Keysight Spectrum Analyz	er - Element Materials Tech	nology					
LXI RL RF	50 Ω DC CORREC	SE	ENSE:INT	ALIGN AUTO			AM Aug 17, 2022
		PNO: Wide ↔→→ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold:	RMS 500/500	TR T	ACE 1 2 3 4 5 6 YPE A WWWW DET A NNNNN
Def Offe	et 40.9 dB				Mkr1	768.000	000 MHz
10 dB/div Ref 40	.90 dBm					-26.	621 dBm
Log			Y				
30.9							
20.9							
10.9							
0.900							
-9.10							
	$\sim$						
-19.1		****	1				DL1 -19.00 dBm
-29.1							
-39.1							
-49.1							
Start 767.9000 MI	17		<b>&amp;</b>			Ston 769	.1000 MHz
#Res BW 30 kHz		#VBW	/ 91 kHz*		#Sweep		(8001 pts)
MSG				STATUS			
Port 1, 50	G NR, Band n14, 7	58 - 768 Mhz, 5 I	MHz Bandwidth, 1	6QAM Modulatio	n, High Chann	el, 765.5 M	Hz
, -	Frequency	, -	Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Re	sult
	2		768.1	-26.5	-19	P	ass

RL RF 50 Ω DC CORF	PNO: Fast Trig: Free Run IFGain:Low #Atten: 20 dB	ALIGN AUTO Avg Type: RMS Avg Hold: 500/500	06:41:07 AM Aug 17, 20 TRACE 1 2 3 4 5 TYPE A WWW DET A N N N
Ref Offset 40.9 dB 0 dB/div Ref 40.90 dBm	IFGain:Low writen. 20 db	Mkr1	768.100 00 MH -26.495 dB
0.9			
0.9			
10			
9.1			DL1 -19.00 c
P.1			
9.1			
tart 758.00 MHz			Stop 808.00 MI
Res BW 100 kHz	#VBW 300 kHz*	#Sweep	7.467 ms (8001 pt



	, 5G NR, Band n14, 7 Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	3		769.13	-59.65	-52	Pass
	nalyzer - Element Materials Tech					
LXI RL RF	50 Ω DC CORREC		SENSE:INT	ALIGN AUTO Avg Type:	DME	06:43:21 AM Aug 17, 2022 TRACE 1 2 3 4 5 6
		PNO: Wide ++-	Trig: Free Run #Atten: 0 dB	Avg Hold:		DET A NNNN
					Mkr1	769.134 25 MHz
10 dB/div Ref	8.00 dBm					-59.654 dBm
Log			<b>Y</b>			
-2.00						
-2.00						
-12.0						
12.0						
-22.0						
-32.0						
-42.0						
-52.0						DL1 -52.00 dBm
. <b>∳</b> <sup>1</sup>						
-62.0	These sectors and the sector sectors and the sector sectors and the sector sectors and the sector sectors and the sectors and					
	- The Manual Manual Contraction of the Contraction					
-72.0		way was a second and a second				han an a
-82.0						
Start 769.000 N						Stop 775.000 MHz
#Res BW 6.8 kl	Hz	#VB	W 22 kHz*		Sweep	49.60 ms (8001 pts)
MSG				STATUS		
Port 1	, 5G NR, Band n14, 7	'58 - 768 Mhz, 5				el, 765.5 MHz
	Frequency		Measured	Max Value	Limit	Decult
	Range 4	r	Freq (MHz) 799.54	(dBm) -72.92	< (dBm) -52	Result Pass

RL RF 50 Ω DC CORREC	S	ENSE:INT	ALIGN AUTO	06:44:49 AM Aug 17, 20
	PNO: Wide ↔→ IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 TYPE A WWW DET A NNN
dB/div Ref 8.00 dBm			Mł	r1 799.535 500 MH -72.918 dB
00		Ĭ		
.0				
.0				
.0				
0				
.0				DL1 -52.00 c
.0				
.0		t detter hat set an		mayle masses and a second and a second
.0				
art 799.000 MHz				Stop 806.000 MI
es BW 6.8 kHz	#VBV	V 22 kHz*	Sw	eep 57.60 ms (8001 pt



	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBm)	< (dBm)	Result
	1	758	-24.54	-19	Pass
	Analyzer - Element Materials Technology				
LXI RL RF	50 Ω DC CORREC	SENSE:INT	ALIGN AUTO Avg Type:	RMS	06:12:02 AM Aug 17, 2022 TRACE 1 2 3 4 5 6
	PNC IFG	D: Wide →→ Trig: Free Run ain:Low #Atten: 30 dB	Avg Hold: 5		
Ref	Offset 40.9 dB			Mkr1 75	8.000 000 MHz -24.541 dBm
10 dB/div Ref	f 40.90 dBm			r	-24.341 0.000
30.9					
20.9					
10.9					
0.900					
-9.10					
				~~~~	
-19.1		1			DL1 -19.00 dBm
-29.1					
-39.1					
-49.1					
Start 757.9000	0 MHz	· •	I	S	top 758.1000 MHz
#Res BW 30 k		#VBW 91 kHz*			067 ms (8001 pts)
MSG			STATUS		
Port	1 5G NR Band n14 758 -	768 Mhz, 5 MHz Bandwidth, 6	640AM Modulatio	n Low Channel	760 5 MHz
	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBm)	< (dBm)	Result
	2	757.9	-23.17	-19	Pass

RL RF 50 Ω DC CO	RREC SENSE:INT		ALIGN AUTO		06:12:59 A	AM Aug 17, 202
	PNO: Fast +++ Trig: Fr IFGain:Low #Atten:	ee Run 30 dB	Avg Type: RM Avg Hold: 500	IS /500	TY	CE 1 2 3 4 5 PE A WWW ET A NNNN
Ref Offset 40.9 dB dB/div Ref 40.90 dBm				Mkr1	757.900 -23.1	00 MH 69 dBi
].9						
.9						
0						
10						
.1				1		DL1 -19.00 d
.1					- h	m
.1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
.1						
art 726.00 MHz					Stop 76	8.00 MI
Res BW 100 kHz	#VBW 300 ki	Hz*		Sweep	2.133 ms	(8001 pt
		an a	STATUS			



	Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1		768	-27.06	-19	Pass
Keysight Spectrum Analyze						
LXI RL RF	50 Ω DC CORREC		SENSE:INT	ALIGN AUTO Avg Type:	RMS	06:47:22 AM Aug 17, 2022 TRACE 2 3 4 5 6
		PNO: Wide +++	Trig: Free Run #Atten: 30 dB	Avg Hold:		TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN
		IFGain:Low	#Atten: 00 db		Mkr1 76	8.000 000 MHz
Ref Offse	et 40.9 dB 90 dBm					-27.058 dBm
10 dB/div Ref 40.	30 dBm		Y			
30.9						
20.9						
10.9						
0.000						
0.900						
-9,10						
0.10						
-19.1						DL1 -19.00 dBm
			<b></b> 1			
-29.1						
-39.1						
-49.1						
Start 767.9000 MH	Z					top 768.1000 MHz
#Res BW 30 kHz		#VB	A/ 91 kHz*		#Sweep 1.	067 ms (8001 pts)
MSG				STATUS		
		50 700 MIL 5				
Port 1, 50	NR, Band n14, 7 Frequency	58 - 768 Mhz, 5	MHz Bandwidth, 6 Measured	4QAM Modulation Max Value	n, High Channel, Limit	765.5 MHZ
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2	1	768.1	-26.35	-19	Pass

RL	RF 50 Ω DC	CORREC		SENSE:INT	AL	IGN AUTO		06:48:	32 AM Aug 17, 20
			PNO: Fast ↔ IFGain:Low	→ Trig: Free R #Atten: 20 d		Avg Type: Avg Hold: 5			TYPE A WWW DET A NNN
dB/div	Ref Offset 40.9 dE Ref 40.90 dBm	3 1					Mkr		00 00 MH 3.353 dB
-				Ĭ					
.9									
.9									
.9									
0									
0									
1									DL1 -19.00)
		1							
1 ml									
1		Lawrence and the second			ana ana ang ang ang ang ang ang ang ang				
1									
art 758.0	0 MHz							Stop	808.00 MI
es BW 1	00 kHz		#VI	3W 300 kHz*			#Swee	p 7.467 m	is (8001 pi



Port 1 5G	NR Band n14 75	58 - 768 Mhz 5 I	MHz Bandwidth	, 64QAM Modulatio	on High Channel	765 5 MHz	
,	Frequency		Measured	Max Value	Limit	,	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	3		769.12	-59.36	-52	Pass	
· · · · ·			·	<u>.</u>		· · ·	
Keysight Spectrum Analyzer	- Element Materials Techn	ology					
XI RL RF 5			ENSE:INT	ALIGN AUTO		06:50:11 AM Aug 17, 2022	
		PNO: Wide ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type Avg Hold:		TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	
					Mkr1	769.116 25 MHz	
10 dB/div Ref 8.00	dBm					-59.360 dBm	
3			Ť				
-2.00							
-12.0							
-22.0							
-22.0							
-32.0							
-42.0							
-52.0						DL1 -52.00 dBm	
-62.0	2011						
-72.0							
-82.0							
Start 769.000 MHz						Stop 775.000 MHz	
#Res BW 6.8 kHz		#VBW	/ 22 kHz*			9.60 ms (8001 pts)	
MSG				STATUS			
Dot 1.50	NP Rond n14 7	9 769 Mb- 5		, 64QAM Modulatio	n High Channel	765 5 MH <del>7</del>	
Port 1, 5G	Frequency	00 - 700 IVIIIZ, 5 I	Measured	Max Value	Limit	, 703.3 IVINZ	
	Range		Freq (MHz)		< (dBm)	Result	
	4		800.79	-72.96	-52	Pass	

RL RF 50 Ω DC (	CORREC	SENSE:INT	ALIGN AUTO Avg Type: RMS Avg Hold: 500/5		:51:43 AM Aug 17, 20 TRACE 1 2 3 4 5 TYPE A
	PNO: Wide ↔ IFGain:High	#Atten: 0 dB	Avginoid. 500/5	00	DETANNN
dB/div Ref 8.00 dBm				Mkr1 800.7 -	92 000 MH 72.956 dBi
pg					
.00					
2.0					
2.0					
2.0					
2.0					
					DL1 -52.00 d
2.0					021-02.00 0
2.0					
2.0					
2.0					
tart 799.000 MHz Res BW 6.8 kHz		BW 22 kHz*		Sto Sweep 57.60	p 806.000 MH



	Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	1		758	-24.66	-19	Pass
	ım Analyzer - Element Materials Teo					- F ×
LXI RL	RF 50 Ω DC CORRE	C	SENSE:INT	ALIGN AUTO Avg Type:	PMS	06:14:54 AM Aug 17, 2022 TRACE 1 2 3 4 5 6
		PNO: Wide ← IFGain:Low	<ul> <li>Trig: Free Run #Atten: 30 dB</li> </ul>	Avg Hold: 5		TYPE A WWWW DET A NNNN
R	tef Offset 40.9 dB				Mkr1 7	58.000 000 MHz
10 dB/div	tef 40.90 dBm					-24.656 dBm
			The second se			
30.9						
20.9						
10.9						
10.0						
0.900						
-9.10						
-19.1			1			DL1 -19.00 dBm
			↓			
-29.1						
-39.1						
-49.1						
Start 757.90	00 MHz					Stop 758.1000 MHz
#Res BW 30		#V	'BW 91 kHz*			1.067 ms (8001 pts)
MSG				STATUS		
Por	t 1, 5G NR, Band n14, 3	758 - 768 Mhz,	5 MHz Bandwidth, 2	56QAM Modulatio	n, Low Channe	I, 760.5 MHz
	Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	2		757.9	-23.09	-19	Pass

Keysight Spectrum Analyzer - Element Materials           RL         RF         50 Ω         DC         COR	REC SENSE:INT	ALIGN AUTO	06:15:53 AM Aug 17, 20
	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 500/500	TRACE 1 2 3 4 TYPE A WWW DET A N N N
Ref Offset 40.9 dB dB/div Ref 40.90 dBm			Mkr1 757.900 00 MH -23.089 dBi
9.9			
.9			
.9			
00			
10			
.1			1DL1 -19.00 c
.1			
.1			
.1			
art 726.00 MHz			Stop 768.00 Mł
les BW 100 kHz	#VBW 300 kHz*	s	weep 2.133 ms (8001 p
		STATUS	



M         RL         RF         50 Ω DC         CORREC         SENSE:INT         ALIGN AUTO         06:53:34 M           PNO: Wide         →         Trig: Free Run         AvgType: RMS         AvgType: RMS         Trig: Free Run           Ref Offset 40.9 dB         Mkr1 768.0000         0-27.05         0-27.05           0 dB/div         Ref 40.90 dBm         -27.05         -27.05           0 g         -         -         -         -27.05           0 g         -         -         -         -         -27.05           0 g         -         -         -         -         -27.05           0 g         -         -         -         -         -         -27.05           0 g         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </th <th>ss</th>	ss
1       768       -27.06       -19       Pas         R       Rysight Spectrum Analyzer - Element Materials Technology       06:33:34 AM         R       S0.0 C       CORREC       SENSE:INT       ALIGN AUTO       06:33:34 AM         PHO; Wide       Trig: Free Run       Avg Type: RMS       Trico         Avg Type: RMS       Ref 0ffset 40.9 dB       Mkr1 768.000.0       -27.05         0       0       0       -27.05       -27.05         0       0       0       -27.05       -27.05         0       0       0       -27.05       -27.05         0       0       0       -27.05       -27.05         0       0       0       -27.05       -27.05         0       0       0       -27.05       -27.05         0       0       0       0       -27.05       -27.05         0       0       0       0       0       -27.05       -27.05         0       0       0       0       0       0       -27.05         0       0       0       0       0       0       0         0       0       0       0       0       0       0 </th <th>ss</th>	ss
Keyright Spectrum Analyzer - Element Materials Technology       06:33:34 M         PNO: Wide       Trig: Free Run       Avg Type: RMS         PNO: Wide       Trig: Free Run       Avg Type: RMS         Ref Offset 40.9 dB       Mkr1 768.000 0         10 dEX/div       Ref 40.90 dBm       -27.01         00 dB       -27.02         00 dB       -27	
M         RL         RF         50 12         CORREC         SENSE:INT         ALIGN AUTO         06:33:34 AV           Avg Type: RMS           AvglHoid:         5000000         Trap           PNO: Wide          Trig: Free Run         Avg Type: RMS         Trap           AvglHoid:         5000000         Trap         Trap         Trap         AvglHoid:         5000000           Tog          Fef Offset 40.9.0 dB          Trap         AvglHoid:         5000000           10         dB/div         Ref 40.90 dB               30.9                  30.9                  30.9                  9                  9	
PNO: Wide         Trig: Free Run #Atten: 30 dB         Avg Type: RMS AvglHold: 500/500         Truc Type           0 dB/div         Ref 0ffset 40.9 dB         0         -27.04         -27.04           0 g	- F X
Ref Offset 40.9 dB         Mkr1 768.000 0           0.9         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	M Aug 17, 2022
10 dB/div       Ref 40.90 dBm       -27.04         30 g       -       -       -         10 g       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         9 g       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -	CE 1 2 3 4 5 6 PE A WWWWW ET A NNNNN
10 dB/div       Ref 40.90 dBm       -27.03         30 9	000 MHz
30.9	56 dBm
20.9 10.9 900 9.0 9.0 9.0 9.0 9.0 9.0	
10.9 0.900 9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.10 -9.1	
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-19.1 -29.1 -39.1 -49.1 -49.1 -5 Stop 768.1	
-19.1 -29.1 -39.1 -49.1 -49.1 -5 Stop 768.1	
-13.1     1       -29.1	
-29.1 -39.1 -49.1 Start 767.9000 MHz Stop 768.1	DL1 -19.00 dBm
-39.1 -49.1 Start 767.9000 MHz Stop 768.1	
-49.1 Start 767.9000 MHz Stop 768.1	
-49.1 Start 767.9000 MHz Stop 768.1	
Start 767.9000 MHz Stop 768.1	
Start 767.9000 MHz Stop 768.1	
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.067 ms (*	(8001 pts)
MSG	
Port 1, 5G NR, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MH	
Frequency Measured Max Value Limit	Hz
Range         Freq (MHz)         (dBm)         < (dBm)         Result           2         768.1         -26.83         -19         Pas	Hz

RL RF 50 Ω DC CO	RREC SEN	ISE:INT	ALIGN AUTO		5:55:08 AM Aug 17, 20
	PNO: Fast ↔→ IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: RM Avg Hold: 500		TRACE 1 2 3 4 TYPE A WWW DET A NNN
Ref Offset 40.9 dB					.100 00 MH -26.831 dB
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1.9					
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1	and the second solution is a function of the second solution of the second solution is a function of the second solution of the sec	******	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*******	
art 758.00 MHz		200 kll=t		Si #Owner 7.46	op 808.00 MI
Res BW 100 kHz	#VBW	300 kHz*	STATUS	#Sweep 7.46	7 ms (8001 pi



Port	1, 5G NR, Band n14,	758 - 768 Mhz,	5 MHz Bandwidth, 2	56QAM Modulatio	n, High Channel	, 765.5 MHz
	Frequency		Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
	3		769.17	-58.96	-52	Pass
	m Analyzer - Element Materials Te					
LXI RL	RF 50 Ω DC CORR	EC	SENSE:INT	ALIGN AUTO Avg Type:	DMS	06:56:59 AM Aug 17, 2022
		PNO:Wide ← IFGain:High	<ul> <li>Trig: Free Run #Atten: 0 dB</li> </ul>	Avg Hold:	500/500	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N
					Mkr1 7	69.173 25 MHz
10 dB/div R	ef 8.00 dBm					-58.961 dBm
209			The second se			
-2.00						
-12.0						
-22.0						
-32.0						
-42.0						
-52.0						DL1 -52.00 dBm
<b>♦</b> 1						
-62.0	4. N. A					
	and and the second of the seco					
-72.0						^
-82.0						
Start 769.00						Stop 775.000 MHz
#Res BW 6.8	KHZ	#V	BW 22 kHz*		Sweep 4	9.60 ms (8001 pts)
MSG				STATUS		
Port	1, 5G NR, Band n14,	758 - 768 Mhz.	5 MHz Bandwidth, 2	56QAM Modulatio	n. High Channel	. 765.5 MHz
	Frequency	,	Measured	Max Value	Limit	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result
1	4		799.05	-72.94	-52	Pass

RL RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO		06:58:06 AM Aug 17, 20
	PNO: Wide ↔ IFGain:High	→ Trig: Free Run #Atten: 0 dB	Avg Type: RM Avg Hold: 500		TRACE 1 2 3 4 TYPE A WWWM DET A NNN
0 dB/div Ref 8.00 dBm				Mkr1 799	9.051 625 MF -72.937 dB
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.00					
2.0					
2.0					
2.0					
2.0					
2.0					DL1 -52.00 (
2.0					
2.0 1					
2.0	den, Malana, en Mergde, Jerry Langer, Myslenker, er frei Lader	ىرىنىي بىرىنىيىنى ئالىرىنىيى بىلەر <del>بىلىرىكى بىلىرىكى بىرىكى بىرىكى بىرىكى بىرىكى بىرىكى بىرىكى بىرىكى بىرىكى ب</del>	,	gulfenhaltan dinekti muslak muslametan gelegen dengi	900man-2822390-0489.coagtribus 29484.a
40					
tart 799.000 MHz Res BW 6.8 kHz	#VE	3W 22 kHz*		Sweep 57	top 806.000 Mi .60 ms (8001 pi



,	Frequency		10 MHz Bandwidth, 2 Measured	Max Value	Limit	,	
	Range		Freq (MHz)	(dBm)	< (dBm)	Result	
	1		758	-29.03	-19	Pass	
Keysight Spectrum Analyze							
KAIRL RF	50 Ω DC CORRE	C I	SENSE:INT	ALIGN AUTO Avg Type:	RMS	07:43:16 AM Aug 17, TRACE 1 2 3	456
		PNO: Wide ← IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 5	00/500	TYPE A WWW DET A N N	NNN
		in Guin.com			Mkr1	758.000 000 M	Hz
Ref Offse 10 dB/div Ref 40.9	t 40.9 dB 90 dBm					-29.025 dl	
Log			Y				
30.9							
30.9							
20.9							
10.9							
0.900							
-9.10							
-19.1						DL1 -19.0	0 dBpp
			1				
-29.1			<b>!</b>				
-39.1							
49.4							
-49.1							
Start 757.9000 MH #Res BW 30 kHz	Z	#V	BW 91 kHz*		#Sween	Stop 758.1000 M	
MSG		#V		STATUS	"oweep	10001	100
				514105			
Port 1, 5G	NR, Band n4, 75	58 - 768 Mhz, 1	0 MHz Bandwidth, 2	56QAM Modulatic	n, Low Chann	el, 763.0 MHz	
	Frequency		Measured	Max Value	Limit		
	Range 2	1	Freq (MHz) 757.9	(dBm) -24.15	<ul> <li>(dBm)</li> <li>-19</li> </ul>	Result Pass	-

RL RF 50 Ω DC CORRE	C SE	NSE:INT	ALIGN AUTO		07:44:02 AM Aug	
	PNO: Fast ↔→→ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: RI Avg Hold: 50	0/500	TRACE 1 TYPE A DET A	NNN
Ref Offset 40.9 dB dB/div Ref 40.90 dBm				Mkr1	757.900 00 -24.146	dB
a ).9						
.9						*******
.9						
10						
.1				1	DL1	-19.00
.1			server and the server ser			
.1						
.1						
art 726.00 MHz tes BW 100 kHz	#\/D\\/			0	Stop 768.0	0 M
IES BW TOU KHZ	#VBW	300 kHz*		Sweep	2.133 ms (80	лр



	Frequency	, .	Measured	56QAM Modulatio Max Value	Limit	,	
	Range		Freq (MHz)	(dBm)	< (dBm)		sult
	1		768	-32.06	-19	P	ass
	- Element Materials Technolo						
LXI RL RF	50 Ω DC CORREC	SEN	ISE:INT	ALIGN AUTO Avg Type:	DMS		AM Aug 17, 2022 ACE 1 2 3 4 5 6
			Trig: Free Run #Atten: 30 dB	Avg Hold: 5			
Ref Offse	t 40.9 dB				Mkr1 7		000 MHz
10 dB/div Ref 40.9	90 dBm					-32.	060 dBm
Log			Ĭ				
30.9							
20.0							
20.9							
40.0							
10.9							
0.900							
0.500							
-9.10							
-5.10							
-19.1							DL1 -19.00 dBm
-29.1			1				
-39.1							
-49.1							
Start 767.9000 MH: #Res BW 30 kHz	Z	#VBW	91 kHz*		#Sweep		3.1000 MHz 5 (8001 pts)
MSG				STATUS			
Port 1, 5G N	NR, Band n14, 758 -	768 Mhz, 10 M		56QAM Modulatio	on, High Chan	nel, 763.0	MHz
	Frequency		Measured	Max Value	Limit		
	Range		Freq (MHz)	(dBm)	< (dBm)	Re	sult

RL RF 50 Ω DC COF	REC SENSE:INT	ALIGN AUTO	07:46:00 AM Aug 17, 20
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 20 dB	Avg Type: RMS Avg Hold: 500/500	TYPE A WWWW DET A NNNI
Ref Offset 40.9 dB 0 dB/div Ref 40.90 dBm		Mk	r1 768.100 00 MF -29.434 dBi
~g			
0.9			
0.9			
ng			
00			
10			
9.1			DL1 -19.00 ¢
1			
9.1			
9.1 <b></b>			
9.1			
tart 758.00 MHz Res BW 100 kHz	#VBW 300 kHz*	#Swaa	Stop 808.00 MH p 7.467 ms (8001 pt
		STATUS	p rater material



Frequency	/ N	leasured Max Value	Limit	
Range	F	req (MHz) (dBm)	< (dBm)	Result
3		769.2 -59.79	-52	Pass
Keysight Spectrum Analyzer - Element Materials	[echnology			
XI RL RF 50 Ω DC CO	RREC SENSE:IN			07:47:33 AM Aug 17, 202
	Tria		be: RMS d: 500/500	TRACE 1 2 3 4 5
		en: 0 dB	4. 000/000	
			Mkr1	769.197 25 MH
10 dB/div Ref 8.00 dBm				-59.791 dBr
Log		¥ I		1
-2.00				
-12.0				
-22.0				
-32.0				
-42.0				
-52.0				DL1 -52.00 dB
♦'				
-62.0 million - free -				
the source of the second second				
-72.0	and the second s			ware and the second second
-82.0				
Start 769.000 MHz				Stop 775.000 MH
#Res BW 6.8 kHz	#VBW 22	kHz*		9.60 ms (8001 pts
MSG		STATUS	· · · · · ·	((
maa		STATUS		
Dista FOND Distant	750 700 MIL - 40 MIL-1	Bandwidth, 256QAM Modul	ation High Channe	1 762 0 MH-

Port 1, 5G N	VR, Band n14, 75	8 - 768 Mhz, 10 N	1Hz Bandwidth, 2	56QAM Modulati	on, High Channe	, 763.0 MHz
Frequency		Measured	Max Value	Limit		
Range			Freq (MHz)	(dBm)	< (dBm)	Result
	4		800.4	-72.88	-52	Pass

RL RF 50 Ω DC CORREC	SENSE:INT	data series and the series of	ALIGN AUTO		07:48:4	5 AM Aug 17, 20
	PNO: Wide Trig: I	Free Run n: 0 dB	Avg Type:   Avg Hold: 5		т	RACE 1 2 3 4 5 TYPE A WWW DET A NNN
dB/div Ref 8.00 dBm				Mkr	1 800.395 -72	625 MH .878 dBi
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art 799.000 MHz Res BW 6.8 kHz	#VBW 22 k				Stop 8 p 57.60 m	06.000 MH