

# NR Band n48 – Ant M2

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 3510.0	-54.9	-40.0	-14.90
		Low	3610.0 - 15000.0	-47.45	-40.0	-7.45
		Low	15000.0 - 27000.0	-59.6	-40.0	-19.60
		Low	27000.0 - 40000.0	-53.74	-40.0	-13.73
		Mid	30.0 - 35750.0	-46.4	-40.0	-6.40
NR-n48	40MHz	Mid	3675.0 - 15000.0	-45.67	-40.0	-5.67
NR-1140		Mid	15000.0 - 27000.0	-59.56	-40.0	-19.56
		Mid	27000.0 - 40000.0	-52.56	-40.0	-12.56
		High	30.0 - 3640.0	-46.39	-40.0	-6.39
		High	3740.0 - 15000.0	-45.58	-40.0	-5.58
		High	15000.0 - 27000.0	-53.98	-40.0	-13.98
		High	27000.0 - 40000.0	-52.59	-40.0	-12.59

Table 7-14. Conducted Emission Test Results

Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF R L Cupling Align: Au	DC Corr CCorr RCal	µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS123456 Trig: Free Run AWWWW A N N N N	1.835000000 GHz
1 Spectrum Scale/Div 10 dB		Ref LvI Offset 7.03 Ref Level 0.00 dBm	dB	Mkr1 3.263 1 GH: -46.387 dBn	Span 3.61000000 GHz
Trace 1 Pas	SS				Full Span Start Freq 30.000000 MHz
40.0 50.0				1	Stop Freq 3.640000000 GHz
50.0 70.0			unitering and a star and a star and a star and a star a	and the second	CF Step 361.000000 MHz Auto Man
					Freq Offset 0 Hz X Axis Scale
Start 30 MHz Res BW 1.0 MHz	Jul 19, 2024 5:43:52 PM	#Video BW 3.0 MH	łz	Stop 3.640 GH Sweep ~6.99 ms (7281 pts	z Log

Plot 7-48. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

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Plot 7-49. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-50. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

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Spectrum Analyzer 1	+			Frequency	· • 😤
R L       PASS         Input: RF       Coupling: DC         Align: Auto       Align: Auto	Input Z: 50 Ω Atten: 6 dB Corr CCorr RCal μW Path: Star Freq Ref: Int (S) NFE: Off	PNO: Fast ndard Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A N N N N N	Center Frequency 33.000000000 GHz	Settings
1 Spectrum ▼ Scale/Div 10 dB	Ref Lvl Offset Ref Level 0.00	7.03 dB	Mkr1 38.960 0 GHz -52.590 dBm	Swept Span	
Trace 1 Pass				Zero Span Full Span	
				Start Freq 27.000000000 GHz Stop Freq	
				39.000000000 GHz	
60.0		~~~~		CF Step 1.20000000 GHz	
				Auto Man Freq Offset	
90.0 Start 27.000 GHz Res BW 1.0 MHz	#Video BW 3	.0 MHz	Stop 39.000 GHz Sweep ~22.7 ms (24001 pts)		Local
	<b>?</b> Jul 19, 2024 5:26:25 PM			Signal Track (Span Zoom)	

Plot 7-51. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

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# NR Band n48 – Ant S3

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 3510.0	-44.98	-40.0	-4.98
		Low	3610.0 - 15000.0	-43.16	-40.0	-3.16
		Low	15000.0 - 27000.0	-60.3	-40.0	-20.30
		Low	27000.0 - 40000.0	-54.32	-40.0	-14.32
		Mid	30.0 - 35750.0	-44.5	-40.0	-4.50
	IR-n48 40MHz	Mid	3675.0 - 15000.0	-48.66	-40.0	-8.66
NR-1140		Mid	15000.0 - 27000.0	-59.92	-40.0	-19.92
		Mid	27000.0 - 40000.0	-53.53	-40.0	-13.53
		High	30.0 - 3640.0	-48.44	-40.0	-8.44
		High	3740.0 - 15000.0	-44.05	-40.0	-4.05
		High	15000.0 - 27000.0	-50.1	-40.0	-10.10
		High	27000.0 - 40000.0	-53.54	-40.0	-13.54

Table 7-15. Conducted Emission Test Results

Spectrum Analyzer 1 Swept SA	+			🔅 Frequency 🔻 👫
KEYSIGHT       Input: RF         R L       Coupling: DC         Align: Auto       Align: Auto	Input Z: 50 Ω #Atten: 12 dB Corr CCorr RCal Freq Ref: Int (S) NFE: Off	PNO: Fast #Avg Typ I Gate: Off Trig: Free IF Gain: Low Sig Track: Off	De: Power (RMS <mark>123456</mark> e Run A WWWWW A N N N N N	Center Frequency 1.770000000 GHz Span
1 Spectrum  Scale/Div 10 dB	Ref LvI Offset 7.03 Ref Level 0.00 dBr	ыub	Mkr1 3.153 1 GHz -44.978 dBm	3.48000000 GHz Swept Span Zero Span
-10.0 -20.0				Full Span
-30.0				30.000000 MHz Stop Freq
-40.0				3.51000000 GHz
-60.0				CF Step 348.000000 MHz Auto
-80.0				Man Freq Offset 0 Hz
Start 30 MHz #Res BW 1.0 MHz	#Video BW 3.0 M		Stop 3.510 GHz Sweep 4.67 ms (7001 pts)	X Axis Scale Log Lin
	2 Conducted Spurious Pl			Signal Track (Span Zoom)

Plot 7-52. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)

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Plot 7-53. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)



Plot 7-54. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)

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Plot 7-55. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)

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## 7.5 Band Edge Emissions at Antenna Terminal

### **Test Overview**

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

For an End User Device, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

### Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

### **Test Settings**

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. VBW  $\geq$  3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

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### Test Notes

- 1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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# LTE Band 48

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-51.64	-40	-11.64
	20 MHz	Mid	Band Edge	-33.47	-13	-20.47
		High	Band Edge	-48.02	-40	-8.02
		Low	Band Edge	-51.02	-40	-11.02
	15 MHz	Mid	Band Edge	-30.72	-13	-17.72
LTE-B48		High	Band Edge	-48.95	-40	-8.95
LI E-D40		Low	Band Edge	-53.54	-40	-13.54
	10 MHz	Mid	Band Edge	-31.65	-13	-18.65
		High	Band Edge	-50.40	-40	-10.40
		Low	Band Edge	-53.96	-40	-13.96
	5 MHz	Mid	Band Edge	-30.22	-13	-17.22
		High	Band Edge	-50.32	-40	-10.32

Table 7-16. Conducted Band Edge Test Results



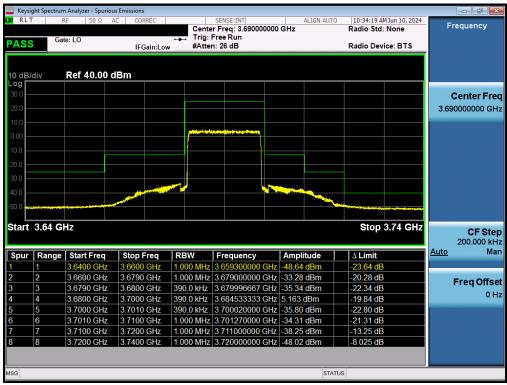
Plot 7-56. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

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	TR	F 50 Ω	ious Emission AC CC	ORREC	Cent	SENSE:INT	00000 GI	ALIGN A		:36:21 AM dio Std:	1 Jun 10, 2024 None	Fr	requency
PASS	Gat	e: LO	IF	Gain:Lo		: Free Run en: 26 dB			Rad	dio Devi	ce: BTS		
10 dB/	/div	Ref 30.00	dBm										
- <b>og</b> 20.0 10.0													Center Fre
0.00					permanni		\						
10.0							l 						
20.0													
30.0					-		-						
40.0 50.0			. And the second second						·				
-										and the second se	and the second se		
60.0													
60.0													
	3.575 G	Hz							S	top 3.	675 GHz		200.000 kH
	3.575 G		Stop	Freq	RBW	Frequency		mplitude		top 3. Limit	675 GHz	Auto	<b>CF Ste</b> 200.000 kH Ma
Start						Frequency z 3.594966667			Δ		675 GHz	Auto	200.000 kł
Start	Range	Start Freq	3.595	0 GHz	1.000 MHz		GHz -5	0.55 dBm	Δ -25	Limit	675 GHz		200.000 kł Ma
Start Spur	Range	Start Freq 3.5750 GHz	3.595 3.614	0 GHz 0 GHz	1.000 MHz	z 3.594966667	<mark>' GHz -5</mark> ) GHz -3	0.55 dBm 3.47 dBm	Δ -25 -20	Limit 5.55 dB	675 GHz		200.000 kł Ma Freq Offs
Start	Range 1 2 3 4	<b>Start Freq</b> 3.5750 GHz 3.5950 GHz	3.5950 3.6140 3.6150	<mark>0 GHz</mark> 0 GHz 0 GHz	1.000 MHz 1.000 MHz 390.0 kHz	z 3.594966667 z 3.613905000	7 GHz -5 ) GHz -3 3 GHz -3	0.55 dBm 3.47 dBm 5.60 dBm	-25 -20 -22	Limit 5.55 dB ).47 dB	675 GHz		200.000 kł Mi Freq Offs
Spur	Range 1 2 3	<b>Start Freq</b> 3.5750 GHz 3.5950 GHz 3.6140 GHz	3.5950 3.6140 3.6150 3.6350	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 MHz 1.000 MHz 390.0 kHz 390.0 kHz	z 3.594966667 z 3.613905000 3.614948333	GHz         -5           GHz         -3           GHz         -3           GHz         -3           GHz         5           GHz         5	i0.55 dBm i3.47 dBm i5.60 dBm 078 dBm	Δ -25 -20 -22 -19	Limit 5.55 dB 0.47 dB 2.60 dB	675 GHz		200.000 k M Freq Offs
Start	Range 1 2 3 4	<b>Start Freq</b> 3.5750 GHz 3.5950 GHz 3.6140 GHz 3.6150 GHz	3.5950 3.6140 3.6150 3.6350 3.6360	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 MHz 1.000 MHz 390.0 kHz 390.0 kHz 390.0 kHz	z 3.594966667 z 3.613905000 3.614948333 3.620600000	GHz         -5           GHz         -3           GHz         -3           GHz         -3           GHz         5.1           GHz         5.1           GHz         5.2           GHz         -3	60.55 dBm 3.47 dBm 5.60 dBm 078 dBm 6.04 dBm	-20 -20 -22 -19 -22	Limit 5.55 dB 0.47 dB 2.60 dB 9.92 dB	675 GHz		200.000 kł M:
Start Spur 1 2 3 4 5	Range 1 2 3 4 5	<b>Start Freq</b> 3.5750 GHz 3.5950 GHz 3.6140 GHz 3.6150 GHz 3.6350 GHz	3.5950 3.6140 3.6150 3.6350 3.6360 3.6360	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 MHz           1.000 MHz           390.0 kHz           390.0 kHz           390.0 kHz           1.000 MHz	z 3.594966667 z 3.613905000 3.614948333 3.620600000 3.635106667	GHz -5 GHz -3 GHz -3 GHz 5. GHz 5. GHz -3 GHz -3	0.55 dBm 3.47 dBm 5.60 dBm 078 dBm 6.04 dBm 5.18 dBm	-28 -28 -20 -22 -19 -23 -23 -22	Limit 5.55 dB 0.47 dB 2.60 dB 0.92 dB 3.04 dB	675 GHz		200.000 kl M Freq Offs
Start	Range           1           2           3           4           5           6	<b>Start Freq</b> 3.5750 GHz 3.5950 GHz 3.6140 GHz 3.6150 GHz 3.6350 GHz 3.6360 GHz	3.5950 3.6140 3.6150 3.6350 3.6360 3.6360	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 MHz           1.000 MHz           390.0 kHz           390.0 kHz           390.0 kHz           1.000 MHz	z 3.594966667 z 3.613905000 3.614948333 3.620600000 3.635106667 z 3.636063333	GHz -5 GHz -3 GHz -3 GHz 5. GHz 5. GHz -3 GHz -3	0.55 dBm 3.47 dBm 5.60 dBm 078 dBm 6.04 dBm 5.18 dBm	-28 -28 -20 -22 -19 -23 -23 -22	Limit 5.55 dB 0.47 dB 2.60 dB 0.92 dB 3.04 dB 2.18 dB	675 GHz		200.000 kł Mi Freq Offs

Plot 7-57. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)



Plot 7-58. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel)

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
	20+20MHz	Low	Band Edge	-43.98	-40	-3.98
ULCA LB48		Mid	Band Edge	-39.46	-25	-14.46
		High	Band Edge	-41.64	-40	-1.64

Table 7-17. Conducted Band Edge Test Results

Keysight Spec	trum Analyzer - Spuriou RF 50 Ω /			SENSE:INT		11:11:11 AM Jun 10, 2024	
KLI	RF   50 Ω /	AC CORREC	Cente	r Freq: 3.56000000	ALIGN AUTO	Radio Std: None	Frequency
4.00	Gate: LO		++ Trig:	Free Run			
ASS		IFGain:Low	, #Attei	n: 26 dB		Radio Device: BTS	
0 dB/div	Ref 40.00 c	dBm					
og							
30.0							Center Fre
20.0							3.560000000 GH
10.0							
3.00			and the second second second	-			
				V			
0.0					Ì		
20.0				_ <del> </del>			
30.0	<b>_</b>						
10 N							
50.0	All and the second second						
10.0							
itart 3.5 C	SH7					Stop 3.64 GHz	
							<b>CF Ste</b> 200.000 kH
Spur   Ran	ge Start Freq	Stop Freq	RBW	Frequency	Amplitude	∆ Limit	<u>Auto</u> Ma
1	3.5000 GHz	3.5300 GHz		3.529700000 GHz		-3.980 dB	
2	3.5300 GHz	3.5400 GHz		3.539183333 GHz		-15.97 dB	Freq Offse
3	3.5400 GHz	3.5490 GHz		3.548700000 GHz		-25.83 dB	0 H
4	3.5490 GHz	3.5500 GHz		3.549970000 GHz		-26.09 dB	UF
5	3.5500 GHz	3.5900 GHz		3.557200000 GHz		-21.83 dB	
6	3.5900 GHz	3.5910 GHz		3.590010000 GHz		-26.75 dB	
7	3.5910 GHz	3.6000 GHz		3.591540000 GHz		-25.91 dB	
8	3.6000 GHz	3.6400 GHz	1.000 MHz	3.600000000 GHz	-40.35 dBm	-15.35 dB	
					CTAT	10	
ŝG	Diat 7 50				STATU		

Plot 7-59. Channel Edge Plot (ULCA LB48 – 20+20MHz QPSK - Low Channel)

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	ectrum Analyzer - S							
KI RLT	RF 50	Ω AC	CORREC	Cente	SENSE:INT r Freq: 3.62500000	ALIGN AUT	0 11:18:17 AM Jun 10, 2024 Radio Std: None	Frequency
PASS	Gate: LO			Trig:	Free Run			
-A33			IFGain:Lo	w #Atte	n: 26 dB		Radio Device: BTS	-
10 dB/div	Ref 40.	00 dBm	1					
_og 30.0								
								Center Fre
20.0								3.625000000 GH
10.0								
0.00						\		
10.0								
20.0				-				
-30.0								
-40.0			and the second se				~~~	
-50.0	North Concerning and the owner of the owner own							
Start 3.50	65 GHz						Stop 3.705 GHz	CF Ste
								200.000 kH
Spur   Rar	nge   Start Fr	eq St	op Freq	RBW	Frequency	Amplitude	∆ Limit	Auto Ma
1 1	3.5650 0		6050 GHz		3.604933333 GHz		-15.03 dB	
2 2	3.6050 0		6140 GHz		3.612845000 GHz		-25.41 dB	Freq Offse
3 3	3.6140 0		6150 GHz		3.614998333 GHz		-25.95 dB	0 Н
4	3.6150 0		6550 GHz		3.650266667 GHz		-22.38 dB	UH
5 5	3.6550 0		6560 GHz		3.655183333 GHz		-25.50 dB	
6 6	3.6560 G		650 GHz		3.656990000 GHz		-25.33 dB	
7 7	3.6650 0	6Hz 3.7	050 GHz	1.000 MHz	3.665400000 GHz	2  -39.46 dBm	-14.46 dB	
SG						STA	TUS	

Plot 7-60. Channel Edge Plot (ULCA LB48 - 20+20MHz QPSK - Mid Channel)



Plot 7-61. Channel Edge Plot (ULCA LB48 – 20+20MHz QPSK - High Channel)

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# NR Band n48 – Ant S4

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-43.24	-40	-3.24
	40MHz	Mid	Band Edge	-35.86	-13	-22.86
		High	Band Edge	-41.54	-40	-1.54
		Low	Band Edge	-42.98	-40	-2.98
	30MHz	Mid	Band Edge	-33.93	-13	-20.93
		High	Band Edge	-41.90	-40	-1.90
	20MHz	Low	Band Edge	-51.21	-40	-11.21
NR-n48		Mid	Band Edge	-31.60	-13	-18.60
		High	Band Edge	-48.18	-40	-8.18
		Low	Band Edge	-51.47	-40	-11.47
	15MHz	Mid	Band Edge	-30.59	-13	-17.59
		High	Band Edge	-49.10	-40	-9.10
		Low	Band Edge	-53.68	-40	-13.68
	10MHz	Mid	Band Edge	-30.67	-13	-17.67
		High	Band Edge	-50.27	-40	-10.27

Table 7-18. Conducted Band Edge Test Results

RLT ASS	F	n Analyzer - Spu F 50 Ω re: LO		CORREC	Trig:	SENSE:INT er Freq: 3.5700 Free Run en: 26 dB	000000 G	ALIGN AU Hz	Radio Sto	PMJun 10, 2024 d: None vice: BTS	Frequency
0 dB/d	liv	Ref 30.00	) dBm	1							
og 10.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							Center Fre 3.570000000 GH
0.0											
0.0 0.0 0.0	~~~~		<i></i>					~~~~			
0.0	3.51 GI								Stor	3.67 GHz	05.010
Spur	Panga	Start Freq		op Freq	RBW	Frequency		Amplitude	∆ Limit		CF Ste 10.000000 MH Auto Ma
per	1	3.5100 GH		5300 GHz		3.52960000			-3.244 d	B	
	2	3.5300 GH		5400 GHz		3.53960000			-16.06 d		
	3	3.5400 GH		5490 GHz		3.54882000			-23.37 d		Freq Offs
	4	3.5490 GH		500 GHz		3.54994000			-23.56 d		0 H
	5	3.5500 GH		5900 GHz		3.56257142			-22.07 d		
	6	3.5900 GH		5910 GHz		3.59055000			-25.10 d		
	7	3.5910 GH		6300 GHz		3.59256000			-24.39 d		
			0.0	3700 GHz	4 000 MU	3.63000000		50.12 dBm	-25.13 d	D	
	8	3.6300 GH	z  3.6	0700 GH2	2   1.000 MHZ	15.05000000		DU. 15 UDITI	-20.10 u	D	

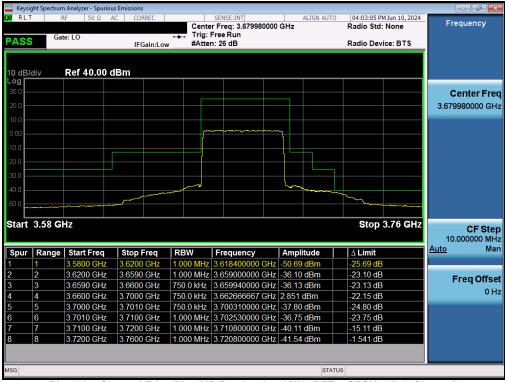
Plot 7-62. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Low Channel)

FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
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RLT	Γ	n Analyzer - Spurio RF   50 Ω			SENSE:INT		AUTO 04:00:16 Radio Sto	PM Jun 10, 2024 d: None	Frequency
ASS	Gat	te: LO	IFGain:		rig: Free Run Atten: 26 dB		Radio De	vice: BTS	
			iii Suiiii	2011					
A		D . 6 20 00	dBm						
0 dB/ .og 🔽	Idiv	Ref 30.00	авт						
20.0									Center Fre
10.0									3.625000000 G
0.00					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>-</b>			
				ſ					
10.0									
20.0									
30.0									
40.0			$\sim$	~ _		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
50.0		مسمسم							
50.0									
start	3.55 GI	Hz					Sto	p 3.7 GHz	CESt
start	3.55 GI	Hz					Sto	p 3.7 GHz	
			Stop Freq	RBW	Frequency	Amplitude		p 3.7 GHz	10.00000 M
	3.55 GI		Stop Freq		Frequency	Amplitude	e   ∆ Limit		10.00000 M
Spur	Range	Start Freq		z 1.000 I		GHz -53.40 dBm	a   ∆ Limit 1 -28.40 d	B	
Start	Range	Start Freq 3.5500 GHz	3.5650 GH	z 1.000 l z 1.000 l	MHz 3.558250000	GHz <mark>-53.40 dBm</mark> GHz -36.42 dBm	2 Δ Limit -28.40 d -23.42 d	B B	10.000000 Mi <u>Auto</u> M Freq Offs
Spur	Range 1 2 3 4	Start Freq           3.5500 GHz           3.5650 GHz           3.6040 GHz           3.6050 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l	MHz         3.558250000           MHz         3.60400000           kHz         3.604970000           kHz         3.622523810	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm	<ul> <li>Δ Limit</li> <li>-28.40 di</li> <li>-23.42 di</li> <li>-22.86 di</li> <li>-21.62 di</li> </ul>	8 8 8 8 8	10.000000 Mi <u>Auto</u> M Freq Offs
Spur	Range 1 2 3 4 5	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH 3.6450 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l z 750.0 l	MHz         3.558250000           MHz         3.604000000           kHz         3.604970000           kHz         3.622523810           kHz         3.645120000	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm           GHz         -38.65 dBm	<ul> <li>Δ Limit</li> <li>-28.40 di</li> <li>-23.42 di</li> <li>-22.86 di</li> <li>-21.62 di</li> <li>-25.65 di</li> </ul>	<b>B</b> B B B B B B	10.000000 Mi <u>Auto</u> M Freq Offs
Spur	Range 1 2 3 4 5 6	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH 3.6460 GH 3.6850 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l z 750.0 l z 1.000 l	MHz         3.558250000           MHz         3.604000000           MHz         3.604970000           kHz         3.622523810           kHz         3.645120000           MHz         3.646000000	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm           GHz         -38.65 dBm           GHz         -38.33 dBm	Δ Limit           -28.40 d           -23.42 d           -22.86 d           -21.62 d           -25.65 d           -25.33 d	<b>B</b> B B B B B B B	10.00000 M
Spur	Range 1 2 3 4 5	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH 3.6450 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l z 750.0 l z 1.000 l	MHz         3.558250000           MHz         3.604000000           kHz         3.604970000           kHz         3.622523810           kHz         3.645120000	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm           GHz         -38.65 dBm           GHz         -38.33 dBm	Δ Limit           -28.40 d           -23.42 d           -22.86 d           -21.62 d           -25.65 d           -25.33 d	<b>B</b> B B B B B B B	10.000000 Mi <u>Auto</u> M Freq Offs
Spur	Range 1 2 3 4 5 6	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH 3.6460 GH 3.6850 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l z 750.0 l z 1.000 l	MHz         3.558250000           MHz         3.604000000           MHz         3.604970000           kHz         3.622523810           kHz         3.645120000           MHz         3.646000000	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm           GHz         -38.65 dBm           GHz         -38.33 dBm	Δ Limit           -28.40 d           -23.42 d           -22.86 d           -21.62 d           -25.65 d           -25.33 d	<b>B</b> B B B B B B B	10.000000 M <u>Auto</u> M Freq Offs
Spur	Range 1 2 3 4 5 6	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 GH 3.6040 GH 3.6050 GH 3.6450 GH 3.6460 GH 3.6850 GH	z 1.000 l z 1.000 l z 750.0 l z 750.0 l z 750.0 l z 1.000 l	MHz         3.558250000           MHz         3.604000000           MHz         3.604970000           kHz         3.622523810           kHz         3.645120000           MHz         3.646000000	GHz         -53.40 dBm           GHz         -36.42 dBm           GHz         -35.86 dBm           GHz         3.382 dBm           GHz         -38.65 dBm           GHz         -38.33 dBm	Δ Limit           -28.40 d           -23.42 d           -22.86 d           -21.62 d           -25.65 d           -25.33 d	<b>B</b> B B B B B B B	10.000000 M <u>Auto</u> M Freq Offs

Plot 7-63. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Mid Channel)



Plot 7-64. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - High Channel)

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# NR Band n48 – Ant S2

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-48.56	-40	-8.56
NR-n48	40MHz	Mid	Band Edge	-50.77	-25	-25.77
		High	Band Edge	-47.35	-40	-7.35
	<b>T</b> -1-1- <b>7</b>	40.0	d David Edua	T 4 D 14 -		

Table 7-19. Conducted Band Edge Test Results

	T F	n Analyzer - Spurio №F 50 Ω te: LO	AC CORREC	Trig: I	SENSE:INT r Freq: 3.57000000 Free Run	ALIGN AUTO	01:58:23 PM Jul 23, 2024 Radio Std: None	Frequency
ASS			IFGain:Lo	w #Atter	n: 26 dB		Radio Device: BTS	ī
0 dB/	/div	Ref 30.00	dBm					
0.0								Center Fre
0.0								3.570000000 GH
0.0								
0.0 1 n L								
0.0								
0.0	~		1		har	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-
0.0								
tart	3.51 GI	Hz					Stop 3.67 GHz	CF Ste 2.50000 Mi
	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	∆ Limit	Auto M
pur	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.527600000 GH	z -48.56 dBm	-8.558 dB	
Spur			3.5400 GHz	1 000 MHz	3.532900000 GH	7 / 18 17 dBm	-23.17 dB	
	2	3.5300 GHz	3.5400 GHZ	1.000 10112	0.002300000 011	2 -40.11 uDm	-23.17 UD	Erea Offs
spur	2 3	3.5300 GHz 3.5400 GHz	3.5400 GHZ 3.5490 GHz	_	3.549000000 GH		-31.66 dB	· · · · · · · · · · · · · · · · · · ·
spur	3 4		3.5490 GHz 3.5500 GHz	1.000 MHz 750.0 kHz	3.549000000 GH 3.550000000 GH	z -44.66 dBm z -44.44 dBm	-31.66 dB -31.44 dB	•
Spur	3	3.5400 GHz	3.5490 GHz	1.000 MHz 750.0 kHz	3.549000000 GH	z -44.66 dBm z -44.44 dBm	-31.66 dB	· · · · · · · · · · · · · · · · · · ·
Spur	3 4	3.5400 GHz 3.5490 GHz	3.5490 GHz 3.5500 GHz	1.000 MHz 750.0 kHz 750.0 kHz	3.549000000 GH 3.550000000 GH	z -44.66 dBm z -44.44 dBm z -1.973 dBm	-31.66 dB -31.44 dB	Freq Offs 0 I
	3 4 5 6 7	3.5400 GHz 3.5490 GHz 3.5500 GHz	3.5490 GHz 3.5500 GHz 3.5900 GHz	1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz	3.549000000 GH 3.550000000 GH 3.551523810 GH	z -44.66 dBm z -44.44 dBm z -1.973 dBm z -46.48 dBm	-31.66 dB -31.44 dB -26.97 dB	•
	3 4 5 6	3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz	3.5490 GHz 3.5500 GHz 3.5900 GHz 3.5910 GHz	<ul> <li>1.000 MHz</li> <li>750.0 kHz</li> <li>750.0 kHz</li> <li>750.0 kHz</li> <li>1.000 MHz</li> </ul>	3.549000000 GH 3.550000000 GH 3.551523810 GH 3.590290000 GH	z -44.66 dBm z -44.44 dBm z -1.973 dBm z -46.48 dBm z -45.91 dBm	-31.66 dB -31.44 dB -26.97 dB -33.48 dB	•

Plot 7-65. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Low Channel)

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	ım Analyzer - Spurio							
X/RLT	RF 50 Ω	AC CORREC	Cente	SENSE:INT r Freq: 3.62500000	ALIGN AUTO	02:00:41 PM Radio Std:	M Jul 23, 2024	Frequency
PASS	ate: LO		Trig:	Free Run				
-A55		IFGain:Lov	w #Atte	n: 26 dB		Radio Devi	ice: BTS	
10 dB/div	Ref 30.00 (	dBm						
20.0					1			
								Center Fre
10.0								3.625000000 GH
0.00								
10.0				~				
20.0								
-30.0	4							
-40.0								
-50.0			•					
-60.0								
	GHz					Stop	3.7 GHz	CF Ste
	GHz					Stop	3.7 GHz	CF Ste 2.500000 M⊦
Start 3.55 C		Stop Freq	RBW	Frequency	Amplitude	Stop	3.7 GHz	2.500000 MH
Start 3.55 C		Stop Freq 3.5650 GHz		Frequency 3.55000000 GHz				2.500000 MH
Start 3.55 C Spur Range 1 1 2 2	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> </ul>	3.5650 GHz 3.6040 GHz	1.000 MHz 1.000 MHz	3.550000000 GHz 3.604000000 GHz	-53.25 dBm -45.75 dBm	∆ Limit -28.25 dB -32.75 dB		2.500000 MH <u>Auto</u> Ma
Start 3.55 C Spur Range 1 1 2 2 3 3	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> </ul>	3.5650 GHz 3.6040 GHz 3.6050 GHz	1.000 MHz 1.000 MHz 750.0 kHz	3.550000000 GHz 3.604000000 GHz 3.604910000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB		2.500000 MH <u>Auto</u> Ma Freq Offso
Start         3.55 C           Spur         Range           1         1           2         2           3         3           4         4	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> </ul>	3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz	3.550000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm	∆ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB		2.500000 MH <u>Auto</u> Ma Freq Offso
Spur         Range           1         1           2         2           3         3           4         4           5         5	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> <li>3.6050 GHz</li> <li>3.6450 GHz</li> </ul>	3.5650 GHz           3.6040 GHz           3.6050 GHz           3.6450 GHz           3.6460 GHz	1.000 MHz           1.000 MHz           750.0 kHz           750.0 kHz           750.0 kHz	3.55000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz 3.645660000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm -46.83 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB -33.83 dB		2.500000 MH <u>Auto</u> Ma Freq Offso
Start         3.55 C           Spur         Range           1         1           2         2           3         3           4         4           5         5           6         6	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> <li>3.6450 GHz</li> <li>3.6460 GHz</li> </ul>	3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz 3.6850 GHz	1.000 MHz           1.000 MHz           750.0 kHz           750.0 kHz           750.0 kHz           750.0 kHz           1.000 MHz	3.550000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz 3.645660000 GHz 3.64600000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm -46.83 dBm -46.01 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB -33.83 dB -33.01 dB		2.500000 MH
Spur         Range           1         1           2         2           3         3           4         4           5         5	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> <li>3.6050 GHz</li> <li>3.6450 GHz</li> </ul>	3.5650 GHz           3.6040 GHz           3.6050 GHz           3.6450 GHz           3.6460 GHz	1.000 MHz           1.000 MHz           750.0 kHz           750.0 kHz           750.0 kHz           750.0 kHz           1.000 MHz	3.55000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz 3.645660000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm -46.83 dBm -46.01 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB -33.83 dB		2.500000 MH <u>Auto</u> Ma Freq Offs
Start         3.55 C           Spur         Range           1         1           2         2           3         3           4         4           5         5           6         6	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> <li>3.6450 GHz</li> <li>3.6460 GHz</li> </ul>	3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz 3.6850 GHz	1.000 MHz           1.000 MHz           750.0 kHz           750.0 kHz           750.0 kHz           750.0 kHz           1.000 MHz	3.550000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz 3.645660000 GHz 3.64600000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm -46.83 dBm -46.01 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB -33.83 dB -33.01 dB		2.500000 MH <u>Auto</u> Ma Freq Offs
Spur         Range           1         1           2         2           3         3           4         4           5         5           6         6	<ul> <li>Start Freq</li> <li>3.5500 GHz</li> <li>3.5650 GHz</li> <li>3.6040 GHz</li> <li>3.6050 GHz</li> <li>3.6450 GHz</li> <li>3.6460 GHz</li> </ul>	3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz 3.6850 GHz	1.000 MHz           1.000 MHz           750.0 kHz           750.0 kHz           750.0 kHz           750.0 kHz           1.000 MHz	3.550000000 GHz 3.604000000 GHz 3.604910000 GHz 3.613380952 GHz 3.645660000 GHz 3.64600000 GHz	-53.25 dBm -45.75 dBm -46.23 dBm -4.162 dBm -46.83 dBm -46.01 dBm	Δ Limit -28.25 dB -32.75 dB -33.23 dB -29.16 dB -33.83 dB -33.01 dB		2.500000 MH <u>Auto</u> Ma Freq Offso

Plot 7-66. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Mid Channel)



Plot 7-67. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - High Channel)

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# NR Band n48 – Ant M2

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-48.56	-40	-8.56
NR-n48	40MHz	Mid	Band Edge	-44.43	-25	-19.43
		High	Band Edge	-42.87	-40	-2.87
	Table 7	00.0	d Danel Edua	T + D 14 -		

Table 7-20. Conducted Band Edge Test Results

ASS		n Analyzer - Spuriou RF 50 Ω / te: LO	AC CORREC	+++ Trig: F	SENSE:INT r Freq: 3.570000000 Free Run h: 26 dB	ALIGN AUTO	02:21:47 PM Jul 23, 2024 Radio Std: None Radio Device: BTS	Frequency
0 dBi	/div	Ref 30.00 d						
20.0								Center Fre 3.570000000 GH
10.0 20.0								
10.0 10.0 50.0								
i0.0	3.51 G	H7					Stop 3.67 GHz	
	3.01 0	12					Gtop 5.07 GHZ	CF Ste 2.500000 MH
Spur	Range		Stop Freq	RBW	Frequency	Amplitude	∆ Limit	<u>Auto</u> Ma
	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.527600000 GHz	-48.56 dBm	-8.563 dB	
	1 2	3.5100 GHz 3.5300 GHz	3.5300 GHz 3.5400 GHz	1.000 MHz 1.000 MHz	3.527600000 GHz 3.539900000 GHz	-48.56 dBm -45.91 dBm	-8.563 dB -20.91 dB	Auto M
	1 2 3	3.5100 GHz 3.5300 GHz 3.5400 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz	1.000 MHz 1.000 MHz 1.000 MHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz	-48.56 dBm -45.91 dBm -41.28 dBm	-8.563 dB -20.91 dB -28.28 dB	Auto Mi Freq Offs
	1 2 3 4	3.5100 GHz 3.5300 GHz 3.5400 GHz 3.5490 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz	1.000 MHz 1.000 MHz 1.000 MHz 750.0 kHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz 3.549970000 GHz	-48.56 dBm -45.91 dBm -41.28 dBm -40.68 dBm	-8.563 dB           -20.91 dB           -28.28 dB           -27.68 dB	Auto M Freq Offs
	1 2 3 4 5	3.5100 GHz 3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz	1.000 MHz 1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz 3.549970000 GHz 3.553047619 GHz	-48.56 dBm -45.91 dBm -41.28 dBm -40.68 dBm 1.948 dBm	-8.563 dB           -20.91 dB           -28.28 dB           -27.68 dB           -23.05 dB	Auto M Freq Offs
Spur	1 2 3 4 5 6	3.5100 GHz 3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz 3.5910 GHz	1.000 MHz           1.000 MHz           1.000 MHz           1.000 MHz           750.0 KHz           750.0 KHz           750.0 KHz           750.0 KHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz 3.549970000 GHz 3.553047619 GHz 3.590230000 GHz	-48.56 dBm -45.91 dBm -41.28 dBm -40.68 dBm 1.948 dBm -42.91 dBm	-8.563 dB           -20.91 dB           -28.28 dB           -27.68 dB           -23.05 dB           -29.91 dB	Auto M Freq Offs
spur	1 2 3 4 5 6 7	3.5100 GHz 3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz 3.5910 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz 3.5910 GHz 3.6300 GHz	1.000 MHz           1.000 MHz           1.000 MHz           750.0 KHz           750.0 KHz           750.0 KHz           1.000 MHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz 3.549970000 GHz 3.553047619 GHz 3.590230000 GHz 3.592170000 GHz	48.56 dBm           -45.91 dBm           -41.28 dBm           -40.68 dBm           1.948 dBm           -42.91 dBm           -42.36 dBm	-8.563 dB           -20.91 dB           -28.28 dB           -27.68 dB           -23.05 dB           -29.91 dB           -29.36 dB	Auto M Freq Offs
	1 2 3 4 5 6	3.5100 GHz 3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz	3.5300 GHz 3.5400 GHz 3.5490 GHz 3.5500 GHz 3.5900 GHz 3.5910 GHz	1.000 MHz           1.000 MHz           1.000 MHz           750.0 KHz           750.0 KHz           750.0 KHz           1.000 MHz	3.527600000 GHz 3.539900000 GHz 3.548910000 GHz 3.549970000 GHz 3.553047619 GHz 3.590230000 GHz	48.56 dBm           -45.91 dBm           -41.28 dBm           -40.68 dBm           1.948 dBm           -42.91 dBm           -42.36 dBm	-8.563 dB           -20.91 dB           -28.28 dB           -27.68 dB           -23.05 dB           -29.91 dB	Auto M

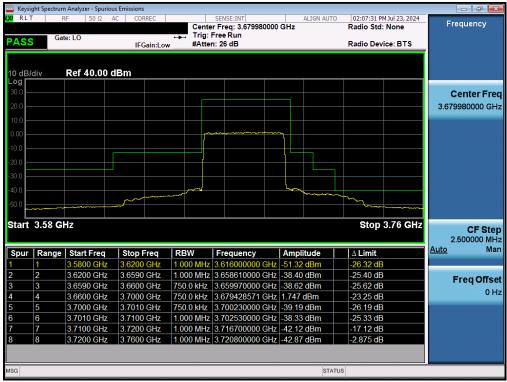
Plot 7-68. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Low Channel)

FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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		Analyzer - Spurio										
RLT	R	F 50 Ω	AC COI	RREC	Cente	SENSE:INT r Freq: 3.625000	0000 GHz	ALIGN AUTO	02:13:28 F	M Jul 23, 2024	Fr	equency
	Gat	e: LO			+++ Trig:	Free Run						
PASS			IFO	Gain:Low	, #Atte	n: 26 dB			Radio Dev	/ice: BTS		
I0 dB/di	iv	Ref 30.00	dBm									
-og												
20.0												Center Fre
10.0											3.62	5000000 GH
0.00					<u></u>		η —					
10.0												
20.0					1							
30.0												
							Ţ					
40.0					/		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
50.0									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
60.0	النفنع											
Start 🤅	3.55 GH								Sto	p 3.7 GHz		CF Ste
		12										
		12										2.500000 MH
Spur	Range		Stop	Freq	RBW	Frequency	Amp	litude	∆ Limit		2 <u>Auto</u>	2.500000 MH
-	Range 1	Start Freq 3.5500 GHz	Stop 3.5950			Frequency						2.500000 MH
· 1 2 2	<b>Range</b> 1 2	<b>Start Freq</b> 3.5500 GHz 3.5950 GHz	3.5950 3.6040	) GHz ) GHz	1.000 MHz 1.000 MHz	3.595000000 ( 3.604000000 (	GHz -44.43 GHz -40.06	3 dBm 6 dBm	∆ Limit -19.43 dE -27.06 dE	3 3	<u>Auto</u>	2.500000 MH Ma
1 1 2 2 3 3	Range 1 2 3	<b>Start Freq</b> <b>3.5500 GHz</b> 3.5950 GHz 3.6040 GHz	3.5950 3.6040 3.6050	) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz	3.595000000 3.604000000 3.604980000	GHz -44.43 GHz -40.06 GHz -39.74	3 dBm 6 dBm 4 dBm	∆ Limit -19.43 df -27.06 df -26.74 df	3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs
1 1 2 2 3 3 4 4	<b>Range</b> 1 2 3 4	<b>Start Freq</b> 3.5500 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz	3.5950 3.6040 3.6050 3.6450	) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz	3.595000000 ( 3.604000000 ( 3.604980000 ( 3.633571429 (	GHz -44.43 GHz -40.06 GHz -39.74 GHz 1.929	3 dBm 5 dBm 4 dBm dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df	3 3 3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs
1 1 2 2 3 3 4 4 5 5	<b>Range</b> 1 2 3 4 5	<b>Start Freq</b> 3.5950 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5950 3.6040 3.6050 3.6450 3.6460	) GHz ) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz	3.595000000 ( 3.604000000 ( 3.604980000 ( 3.633571429 ( 3.645300000 (	GHz -44.43 GHz -40.00 GHz -39.74 GHz 1.929 GHz -41.34	3 dBm 5 dBm 4 dBm dBm 4 dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df -28.34 df	3 3 3 3 3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs
1 1 2 2 3 3 5 5 6 6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5950 3.6040 3.6050 3.6450 3.6460 3.6550	) GHz ) GHz ) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz 1.000 MHz	3.59500000 ( 3.604000000 ( 3.604980000 ( 3.633571429 ( 3.645300000 ( 3.647350000 (	GHz -44.43 GHz -40.00 GHz -39.74 GHz 1.929 GHz -41.34 GHz -40.29	3 dBm 5 dBm 4 dBm dBm 4 dBm 4 dBm 9 dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df -28.34 df -27.29 df	3 3 3 3 3 3 3	<u>Auto</u>	
1 1 2 2 3 3 5 5 6 6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5950 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5950 3.6040 3.6050 3.6450 3.6460	) GHz ) GHz ) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz 1.000 MHz	3.595000000 ( 3.604000000 ( 3.604980000 ( 3.633571429 ( 3.645300000 (	GHz -44.43 GHz -40.00 GHz -39.74 GHz 1.929 GHz -41.34 GHz -40.29	3 dBm 5 dBm 4 dBm dBm 4 dBm 4 dBm 9 dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df -28.34 df	3 3 3 3 3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs
1         1           2         2           3         3           4         2           5         5           6         6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5950 3.6040 3.6050 3.6450 3.6460 3.6550	) GHz ) GHz ) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz 1.000 MHz	3.59500000 ( 3.604000000 ( 3.604980000 ( 3.633571429 ( 3.645300000 ( 3.647350000 (	GHz -44.43 GHz -40.00 GHz -39.74 GHz 1.929 GHz -41.34 GHz -40.29	3 dBm 5 dBm 4 dBm dBm 4 dBm 4 dBm 9 dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df -28.34 df -27.29 df	3 3 3 3 3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs
	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5950 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5950 3.6040 3.6050 3.6450 3.6460 3.6550	) GHz ) GHz ) GHz ) GHz ) GHz ) GHz	1.000 MHz 1.000 MHz 750.0 kHz 750.0 kHz 750.0 kHz 1.000 MHz	3.59500000 ( 3.604000000 ( 3.604980000 ( 3.633571429 ( 3.645300000 ( 3.647350000 (	GHz -44.43 GHz -40.00 GHz -39.74 GHz 1.929 GHz -41.34 GHz -40.29	3 dBm 5 dBm 4 dBm dBm 4 dBm 4 dBm 9 dBm	Δ Limit -19.43 df -27.06 df -26.74 df -23.07 df -28.34 df -27.29 df	3 3 3 3 3 3 3	<u>Auto</u>	2.500000 MH Ma Freq Offs

Plot 7-69. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Mid Channel)



Plot 7-70. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - High Channel)

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# NR Band n48 – Ant S3

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
	40MHz	Low	Band Edge	-46.08	-40	-6.08
NR-n48		Mid	Band Edge	-49.07	-25	-24.07
		High	Band Edge	-43.04	-40	-3.04
	<b>T</b> -1-1- <b>7</b>	04 0 l	d David Edua	T 4 D 14 -		

Table 7-21. Conducted Band Edge Test Results

🔤 Keysi 🗶 RLT		n Analyzer - Spuri RF 50 Ω	AC CORREC		SENSE:INT	ALIGN AUTO	02:24:15 PM Jul 23, 2024	
PASS		te: LO	IFGain:Lo	Trig: I	r Freq: 3.570000000 Free Run n: 26 dB		Radio Std: None Radio Device: BTS	Frequency
10 dB/ Log <b>Г</b>	div	Ref 30.00	dBm					
20.0 - 10.0 -								Center Fre 3.570000000 GH
10.0								
30.0 - 40.0 - 50.0 -								
60.0	3.51 G	Hz					Stop 3.64 GHz	05.044
								CF Ste 2.500000 MH Auto Ma
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	∆ Limit	
1	1	3.5100 GHz	3.5300 GHz		3.527600000 GHz		-6.079 dB	
2	2	3.5300 GHz			3.54000000 GHz		-20.39 dB	Freq Offse
3	3 4	3.5400 GHz 3.5490 GHz	3.5490 GHz 3.5500 GHz		3.548910000 GHz 3.550000000 GHz		-27.63 dB -28.09 dB	0 H
4 5	4 5	3.5490 GHZ 3.5500 GHZ						
) )	5 6	3.5500 GHz 3.5900 GHz	3.5900 GHz 3.5910 GHz		3.553047619 GHz		-24.81 dB -28.66 dB	
7	7	3.5900 GHZ 3.5910 GHZ			3.590190000 GHz 3.592530000 GHz		-28.00 dB	
/ 8	8	3.6000 GHz	3.6400 GHz		3.60800000 GHz		-28.04 dB	
	0	5.0000 GHZ	0.0400 GHZ		5.0000000 GHZ		-19721 UD	
SG						STATU	JS	

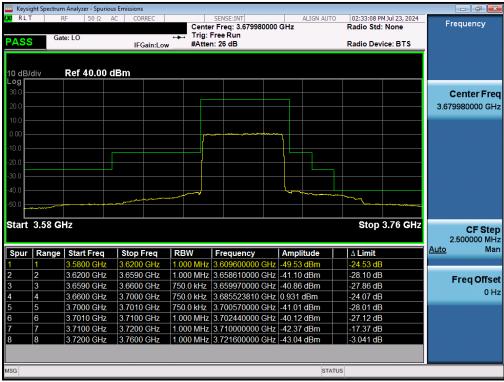
Plot 7-71. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Low Channel)

FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT						
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		Analyzer - Spur											
X/RLT	R	F 50 Ω	AC CO	ORREC			SENSE:INT Freq: 3.6250000	00 GHz	ALIGN AUTO		2 PM Jul 23, 2024 td: None	Fr	equency
	Gat	e: LO			T the	rig: Fi	ree Run	00 0112					
PASS			IF	Gain:Lo	w #	Atten:	26 dB			Radio D	evice: BTS		
10 dB/di	liv	Ref 30.00	dBm										
Log 20.0													
													enter Fre
10.0												3.62	5000000 GH
0.00													
-10.0							_				_		
-20.0													
-30.0													
								ļ					
-40.0								- Ime					
-50.0										<b>\</b> _			
-60.0													
04	0.55.01	<u> </u>											
Start 3	3.55 GI	lz								St	op 3.7 GHz	2	
	3.55 GH Range		Stop	Freq	RBW		Frequency	Amp	litude	St		2 Auto	.500000 MH
Spur	Range						Frequency 3.550150000 GI				t		.500000 MH
<b>Spur</b> 1 2	Range 1 2	Start Freq	3.565	0 GHz	1.000 I	MHz 3 MHz 3	3.550150000 GI 3.604000000 GI	Hz -50.5 Hz -40.8	9 dBm 7 dBm	∆ Limi	t dB	<u>Auto</u>	.500000 MH Mai
<b>Spur</b> 1 2 3 3	Range 1 2 3	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz	3.5650 3.6040 3.6050	0 GHz 0 GHz 0 GHz	1.000 I 1.000 I 750.0 I	MHz 3 MHz 3 KHz 3	3.550150000 GI 3.604000000 GI 3.604990000 GI	Hz -50.5 Hz -40.8 Hz -40.8	9 dBm 7 dBm 5 dBm	∆ Limi -25.59 -27.87 -27.85	t dB dB dB	<u>Auto</u>	.500000 MH Mar FreqOffse
Spur           1         2           2         2           3         2           4         4	<b>Range</b> 1 2 3 4	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz	3.5650 3.6040 3.6050 3.6450	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 I 1.000 I 750.0 I 750.0 I	MHz 3 MHz 3 kHz 3 kHz 3	3.550150000 GI 3.604000000 GI 3.604990000 GI 3.617571429 GI	Hz -50.5 Hz -40.8 Hz -40.8 Hz 0.524	9 dBm 7 dBm 5 dBm 4 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48	t dB dB dB dB dB	<u>Auto</u>	.500000 MH Mar FreqOffse
Spur         1           2         2         2           3         3         3           4         4         4	<b>Range</b> 1 2 3 4 5	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5650 3.6040 3.6050 3.6450 3.6460	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000 I 1.000 I 750.0 I 750.0 I 750.0 I	MHz 3 MHz 3 kHz 3 kHz 3 kHz 3	3.550150000 G 3.604000000 G 3.604990000 G 3.617571429 G 3.645430000 G	Hz -50.5 Hz -40.8 Hz -40.8 Hz 0.524 Hz -41.3	9 dBm 7 dBm 5 dBm 4 dBm 7 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48 -28.37	t dB dB dB dB dB dB	<u>Auto</u>	.500000 MH Mar FreqOffse
Spur         1           2         2         2           3         3         3           4         4         4           5         5         5           6         6         6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 3.6040 3.6050 3.6450 3.6460 3.6460	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000   1.000   750.0   750.0   750.0   1.000	MHz MHz KHz KHz KHz KHz KHz	3.550150000 G 3.604000000 G 3.604990000 G 3.617571429 G 3.645430000 G 3.646000000 G	Iz         -50.5           Iz         -40.8           Iz         -40.8           Iz         0.524           Iz         -41.3           Iz         -40.4	9 dBm 7 dBm 5 dBm 1 dBm 7 dBm 5 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48 -28.37 -27.45	t dB dB dB dB dB dB dB	<u>Auto</u>	CF Step .500000 MH Mar Freq Offse 0 H
Spur         1           2         2         2           3         3         3           4         4         4           5         5         5           6         6         6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz	3.5650 3.6040 3.6050 3.6450 3.6460 3.6460	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000   1.000   750.0   750.0   750.0   1.000	MHz MHz KHz KHz KHz KHz KHz	3.550150000 G 3.604000000 G 3.604990000 G 3.617571429 G 3.645430000 G	Iz         -50.5           Iz         -40.8           Iz         -40.8           Iz         0.524           Iz         -41.3           Iz         -40.4	9 dBm 7 dBm 5 dBm 1 dBm 7 dBm 5 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48 -28.37	t dB dB dB dB dB dB dB	<u>Auto</u>	.500000 MH Mar FreqOffse
Spur         1           2         2         2           3         3         3           4         4         4           5         5         5           6         6         6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 3.6040 3.6050 3.6450 3.6460 3.6460	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000   1.000   750.0   750.0   750.0   1.000	MHz MHz KHz KHz KHz KHz KHz	3.550150000 G 3.604000000 G 3.604990000 G 3.617571429 G 3.645430000 G 3.646000000 G	Iz         -50.5           Iz         -40.8           Iz         -40.8           Iz         0.524           Iz         -41.3           Iz         -40.4	9 dBm 7 dBm 5 dBm 1 dBm 7 dBm 5 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48 -28.37 -27.45	t dB dB dB dB dB dB dB	<u>Auto</u>	.500000 МН Ма Freq Offse
Spur       1       2       3       4       5       6	<b>Range</b> 1 2 3 4 5 6	<b>Start Freq</b> 3.5500 GHz 3.5650 GHz 3.6040 GHz 3.6050 GHz 3.6450 GHz 3.6460 GHz	3.5650 3.6040 3.6050 3.6450 3.6460 3.6460	0 GHz 0 GHz 0 GHz 0 GHz 0 GHz 0 GHz	1.000   1.000   750.0   750.0   750.0   1.000	MHz MHz KHz KHz KHz KHz KHz	3.550150000 G 3.604000000 G 3.604990000 G 3.617571429 G 3.645430000 G 3.646000000 G	Iz         -50.5           Iz         -40.8           Iz         -40.8           Iz         0.524           Iz         -41.3           Iz         -40.4	9 dBm 7 dBm 5 dBm 1 dBm 7 dBm 5 dBm	∆ Limi -25.59 -27.87 -27.85 -24.48 -28.37 -27.45	t dB dB dB dB dB dB dB	<u>Auto</u>	.500000 MH Ma Freq Offse

Plot 7-72. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - Mid Channel)



Plot 7-73. Channel Edge Plot (NR Band n48 - 40MHz DFT-s QPSK - High Channel)

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# 7.6 Radiated Power (EIRP)

### **Test Overview**

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

## Test Procedures Used

ANSI C63.26-2015 - Section 5.2.4.4

### Test Settings

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW  $\geq$  3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points  $\geq$  2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was set equal to 10MHz. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize.

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### <u>Test Setup</u>

The EUT and measurement equipment were set up as shown in the diagram below.

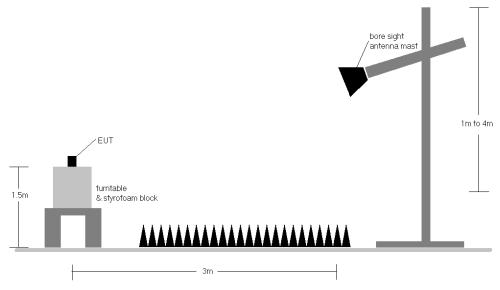


Figure 7-5. Radiated Test Setup >1GHz

### Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4) The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz).

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
	QPSK	3560.00	н	117	320	9.69	1 / 50	11.32	21.01	0.126	23.00	-1.99
20 MHz	QPSK	3625.00	Н	100	324	9.67	1 / 99	12.16	21.83	0.153	23.00	-1.17
20 MHZ	QPSK	3690.00	Н	117	325	9.66	1 / 50	11.54	21.20	0.132	23.00	-1.80
	16-QAM	3625.00	Н	100	324	9.67	1 / 99	11.81	21.48	0.141	23.00	-1.52
	QPSK	3557.50	н	117	320	9.69	1 / 36	11.12	20.81	0.121	23.00	-2.19
15 MHz	QPSK	3625.00	н	100	324	9.67	1 / 19	12.17	21.84	0.153	23.00	-1.16
	QPSK	3692.50	н	117	325	9.65	1 / 36	11.52	21.18	0.131	23.00	-1.82
	16-QAM	3625.00	н	100	324	9.67	1 / 19	11.81	21.48	0.141	23.00	-1.52
	QPSK	3555.00	н	117	320	9.69	1 / 22	11.06	20.75	0.119	23.00	-2.25
10 MHz	QPSK	3625.00	н	100	324	9.67	1 / 12	12.17	21.84	0.153	23.00	-1.16
	QPSK	3695.00	н	117	325	9.65	1 / 12	11.63	21.29	0.134	23.00	-1.71
	16-QAM	3625.00	н	100	324	9.67	1 / 12	11.79	21.46	0.140	23.00	-1.54
	QPSK	3552.50	н	117	320	9.70	1/5	10.96	20.65	0.116	23.00	-2.35
5 MHz	QPSK	3625.00	н	100	324	9.67	1/9	12.17	21.84	0.153	23.00	-1.16
5 MHZ	QPSK	3697.50	н	117	325	9.65	1/9	11.52	21.18	0.131	23.00	-1.82
	16-QAM	3625.00	Н	100	324	9.67	1/9	11.73	21.40	0.138	23.00	-1.60
20 MHz	QPSK (Opposite Pol.)	3625.00	V	114	261	9.67	1/0	8.43	18.10	0.065	23.00	-4.90

Table 7-22. EIRP Data (LTE Band 48)

Bandwidth	Modulation -		PCC			SCC			Antenna Height	Turntable Azimuth	Ant. Gain	Substitute	EIRP	EIRP	EIRP Limit	Margin
Bandwidth		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset	[H/V]	[cm]	[degrees]	[dBi]	Level [dBm]	[dBm/10MHz]	[Watts/10MHz]	[dBm/10MHz]	[dB]
		20	3560.0	1 / 99	20	3579.8	1/0	Н	149	323	9.69	10.07	19.76	0.095	23.00	-3.24
40 MHz	QPSK	20	3625.0	1 / 99	20	3644.8	1/0	Н	149	325	9.67	10.43	20.10	0.102	23.00	-2.90
40 10112		20	3690.0	1/0	20	3670.2	1 / 99	Н	149	324	9.66	9.94	19.60	0.091	23.00	-3.40
	16-QAM	20	3560.0	1 / 99	20	3579.8	1/0	Н	149	323	9.69	8.98	18.67	0.074	23.00	-4.33
		20	3557.5	1 / 99	15	3577.1	1/0	Н	149	323	9.69	10.66	20.35	0.108	23.00	-2.65
35 MHz	QPSK	20	3625.0	1 / 99	15	3642.1	1/0	Н	149	325	9.67	10.60	20.27	0.107	23.00	-2.73
33 WITZ		20	3692.5	1/0	15	3672.9	1 / 74	Н	149	324	9.65	9.62	19.28	0.085	23.00	-3.72
	16-QAM	20	3557.5	1 / 99	15	3577.1	1/0	н	149	323	9.69	8.97	18.66	0.073	23.00	-4.34
		20	3555.0	1 / 99	10	3574.4	1/0	Н	149	323	9.69	10.56	20.25	0.106	23.00	-2.75
30 MHz	QPSK	20	3625.0	1 / 99	10	3639.4	1/0	Н	149	325	9.67	10.48	20.15	0.104	23.00	-2.85
30 10112		20	3695.0	1/0	10	3678.3	1 / 49	Н	149	324	9.65	10.26	19.92	0.098	23.00	-3.08
	16-QAM	20	3555.0	1 / 99	10	3574.4	1/0	Н	149	323	9.69	9.06	18.75	0.075	23.00	-4.25
		20	3552.5	1 / 99	5	3571.7	1/0	Н	149	323	9.70	11.27	20.96	0.125	23.00	-2.04
25 MHz	QPSK	20	3625.0	1 / 99	5	3636.7	1/0	Н	149	325	9.67	10.88	20.55	0.114	23.00	-2.45
23 WHZ		20	3697.5	1/0	5	3678.3	1 / 24	Н	149	324	9.65	10.68	20.34	0.108	23.00	-2.66
	16-QAM	20	3552.5	1 / 99	5	3571.7	1/0	Н	149	323	9.70	9.98	19.67	0.093	23.00	-3.33

Table 7-23. EIRP Data (ULCA LB48)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBī]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [W atts/10MHz]	EIRP Limit [dBm/10 <b>M</b> Hz]	Margin [dB]
	π/2 BPSK	3570.00	Н	112	37	9.69	1 / 104	11.49	21.18	0.131	23.00	-1.82
	π/2 BPSK	3625.00	н	111	36	9.67	1 / 104	11.60	21.27	0.134	23.00	-1.73
	π/2 BPSK	3680.00	н	111	34	9.66	1 / 53	12.02	21.68	0.147	23.00	-1.32
40 MHz	QPSK	3570.00	н	112	37	9.69	1 / 104	11.28	20.97	0.125	23.00	-2.03
	QPSK	3625.00	н	111	36	9.67	1 / 104	11.40	21.07	0.128	23.00	-1.93
	QPSK	3680.00	н	111	34	9.66	1 / 53	11.58	21.24	0.133	23.00	-1.76
	16-QAM	3680.00	н	111	34	9.66	1 / 53	10.91	20.57	0.114	23.00	-2.43
	π/2 BPSK	3565.00	Н	112	37	9.69	1 / 76	11.66	21.35	0.136	23.00	-1.65
	π/2 BPSK	3625.00	н	111	36	9.67	1 / 39	11.64	21.31	0.135	23.00	-1.69
	π/2 BPSK	3685.00	н	111	34	9.66	1 / 76	12.17	21.83	0.152	23.00	-1.17
30 MHz	QPSK	3565.00	н	112	37	9.69	1 / 76	11.51	21.20	0.132	23.00	-1.80
	QPSK	3625.00	н	111	36	9.67	1 / 39	11.40	21.07	0.128	23.00	-1.93
	QPSK	3685.00	н	111	34	9.66	1 / 76	11.69	21.35	0.136	23.00	-1.65
	16-QAM	3685.00	н	111	34	9.66	1 / 76	11.01	20.67	0.117	23.00	-2.33
	π/2 BPSK	3560.00	н	112	37	9.69	1 / 49	11.64	21.33	0.136	23.00	-1.67
	π/2 BPSK	3625.00	н	111	36	9.67	1 / 25	11.80	21.47	0.140	23.00	-1.53
	π/2 BPSK	3690.00	н	111	34	9.66	1 / 49	12.13	21.79	0.151	23.00	-1.21
20 MHz	QPSK	3560.00	н	112	37	9.69	1 / 49	11.52	21.21	0.132	23.00	-1.79
	QPSK	3625.00	н	111	36	9.67	1 / 25	11.63	21.30	0.135	23.00	-1.70
	QPSK	3690.00	н	111	34	9.66	1 / 49	11.64	21.30	0.135	23.00	-1.70
	16-QAM	3690.00	Н	111	34	9.66	1 / 49	10.98	20.64	0.116	23.00	-2.36
	π/2 BPSK	3557.50	н	112	37	9.69	1 / 36	11.58	21.27	0.134	23.00	-1.73
	π/2 BPSK	3625.00	н	111	36	9.67	1 / 19	11.70	21.37	0.137	23.00	-1.63
	π/2 BPSK	3692.50	н	111	34	9.65	1 / 36	12.08	21.74	0.149	23.00	-1.26
15 MHz	QPSK	3557.50	н	112	37	9.69	1 / 36	11.44	21.13	0.130	23.00	-1.87
	QPSK	3625.00	Н	111	36	9.67	1 / 19	11.54	21.21	0.132	23.00	-1.79
	QPSK	3692.50	н	111	34	9.65	1 / 36	11.62	21.28	0.134	23.00	-1.72
	16-QAM	3692.50	Н	111	34	9.65	1 / 36	10.95	20.61	0.115	23.00	-2.39
	π/2 BPSK	3555.00	н	112	37	9.69	1 / 22	11.53	21.22	0.132	23.00	-1.78
	π/2 BPSK	3625.00	н	111	36	9.67	1 / 12	11.71	21.38	0.138	23.00	-1.62
	π/2 BPSK	3695.00	Н	111	34	9.65	1 / 22	12.03	21.69	0.147	23.00	-1.31
10 MHz	QPSK	3555.00	н	112	37	9.69	1 / 22	11.39	21.08	0.128	23.00	-1.92
	QPSK	3625.00	н	111	36	9.67	1 / 12	11.52	21.19	0.132	23.00	-1.81
	QPSK	3695.00	Н	111	34	9.65	1 / 22	11.54	21.20	0.132	23.00	-1.80
	16-QAM	3695.00	Н	111	34	9.65	1 / 22	10.92	20.58	0.114	23.00	-2.42
40 MHz	QPSK (CP-OFDM)	3680.00	Н	110	36	9.66	1 / 53	11.88	21.54	0.142	23.00	-1.46
40 10112	QPSK (Opposite Pol.)	3680.00	V	115	269	9.66	1/1	10.10	19.76	0.095	23.00	-3.24

Table 7-24. EIRP Data (NR Band n48 – Ant S4)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
	π/2 BPSK	3570.00	н	185	224	9.69	1/1	8.22	17.91	0.062	23.00	-5.09
	π/2 BPSK	3625.00	Н	185	245	9.67	1/1	7.14	16.81	0.048	23.00	-6.19
	π/2 BPSK	3680.00	Н	185	247	9.66	1/1	6.89	16.55	0.045	23.00	-6.45
40 MHz	QPSK	3570.00	н	185	224	9.69	1/1	8.22	17.91	0.062	23.00	-5.09
	QPSK	3625.00	н	185	245	9.67	1/1	7.25	16.92	0.049	23.00	-6.08
	QPSK	3680.00	н	185	247	9.66	1/1	6.92	16.58	0.045	23.00	-6.42
	16-QAM	3570.00	н	185	224	9.69	1/1	8.07	17.76	0.060	23.00	-5.24
	QPSK (CP-OFDM)	3570.00	н	185	224	9.69	1/1	8.19	17.88	0.061	23.00	-5.12
40 MILZ	QPSK (Opposite Pol.)	3570.00	V	182	274	9.69	1/1	6.75	16.44	0.044	23.00	-6.56
40 MHz 40 MHz	QPSK QPSK QPSK 16-QAM QPSK (CP-OFDM)	3570.00 3625.00 3680.00 3570.00 3570.00	H H H H	185 185 185 185 185 185 185 182	224 245 247 224 224 224 274	9.69 9.67 9.66 9.69 9.69 9.69	1/1 1/1 1/1 1/1 1/1 1/1	8.22 7.25 6.92 8.07 8.19 6.75	17.91 16.92 16.58 17.76 17.88 16.44	0.062 0.049 0.045 0.060 0.061	23.00 23.00 23.00 23.00 23.00 23.00	

Table 7-25. EIRP Data (NR Band n48 – Ant S2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
	π/2 BPSK	3570.00	н	106	297	9.69	1 / 104	11.60	21.29	0.135	23.00	-1.71
	π/2 BPSK	3625.00	Н	106	298	9.67	1 / 104	11.88	21.55	0.143	23.00	-1.45
	π/2 BPSK	3680.00	Н	106	299	9.66	1/1	12.04	21.70	0.148	23.00	-1.30
40 MHz	QPSK	3570.00	Н	106	297	9.69	1 / 104	11.59	21.28	0.134	23.00	-1.72
	QPSK	3625.00	н	106	298	9.67	1 / 104	11.85	21.52	0.142	23.00	-1.48
	QPSK	3680.00	н	106	299	9.66	1/1	12.01	21.67	0.147	23.00	-1.33
	16-QAM	3680.00	Н	106	299	9.66	1/1	11.65	21.31	0.135	23.00	-1.69
40 MHz	QPSK (CP-OFDM)	3680.00	Н	106	299	9.69	1/1	10.96	20.65	0.116	23.00	-2.35
40 10112	QPSK (Opposite Pol.)	3680.00	V	284	251	9.69	1/1	11.58	21.27	0.134	23.00	-1.73
	Table 7-26 EIPP Data (NP Band p48 – Apt M2)											

Table 7-26. EIRP Data (NR Band n48 – Ant M2)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
	π/2 BPSK	3570.00	н	108	65	9.69	1 / 104	11.93	21.62	0.145	23.00	-1.38
	π/2 BPSK	3625.00	Н	108	66	9.67	1/1	11.94	21.61	0.145	23.00	-1.39
	π/2 BPSK	3680.00	Н	108	67	9.66	1/1	10.14	19.80	0.095	23.00	-3.20
40 MHz	QPSK	3570.00	Н	108	65	9.69	1 / 104	11.89	21.58	0.144	23.00	-1.42
	QPSK	3625.00	Н	108	66	9.67	1/1	11.90	21.57	0.144	23.00	-1.43
	QPSK	3680.00	н	108	67	9.66	1/1	10.54	20.20	0.105	23.00	-2.80
	16-QAM	3625.00	Н	108	66	9.67	1/1	11.14	20.81	0.121	23.00	-2.19
40 MHz	QPSK (CP-OFDM)	3570.00	Н	108	65	9.69	1 / 104	10.88	20.57	0.114	23.00	-2.43
40 10112	QPSK (Opposite Pol.)	3570.00	V	104	76	9.69	1 / 104	11.44	21.13	0.130	23.00	-1.87

Table 7-27. EIRP Data (NR Band n48 – Ant S3)

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## 7.7 Radiated Spurious Emissions Measurements

### **Test Overview**

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### **Test Procedures Used**

ANSI C63.26-2015 - Section 5.5.4

### Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW  $\geq$  3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x span / RBW
- 5. Detector = RMS
- Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
- 7. The trace was allowed to stabilize

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The EUT and measurement equipment were set up as shown in the diagram below.

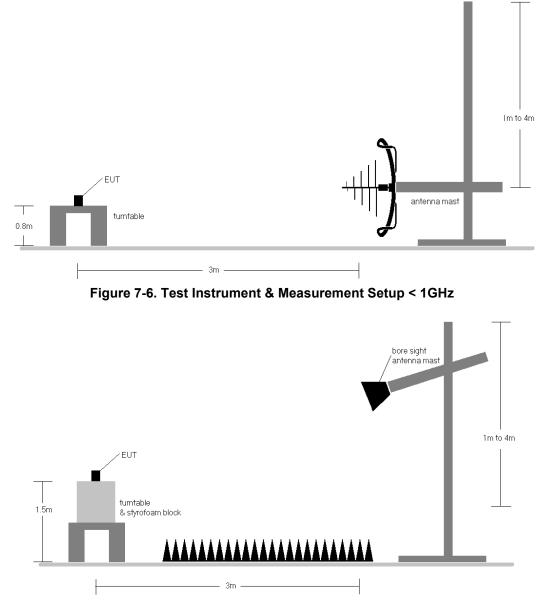


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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### Test Notes

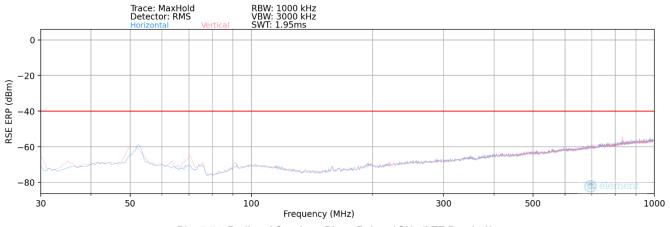
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(dB\mu V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) = E(dB\mu V/m) + 20logD 104.8; where D is the measurement distance in meters.$
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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# LTE Band 48

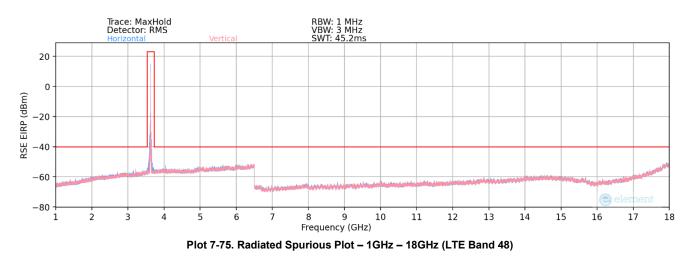




Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

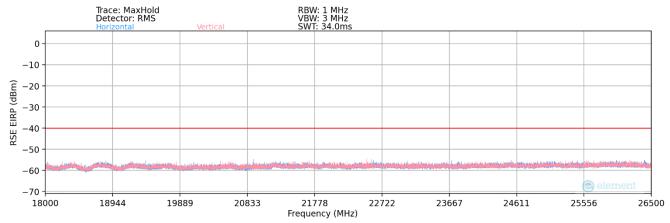
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
51.71	V	100	35	-88.65	20.59	38.94	-58.47	-40.00	-18.47
70.45	V	100	194	-88.16	16.05	34.89	-62.51	-40.00	-22.51
834.13	V	110	351	-95.49	29.89	41.40	-56.01	-40.00	-16.01

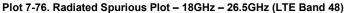
Table 7-28. Radiated Spurious Data – Below 1GHz (LTE Band 48)

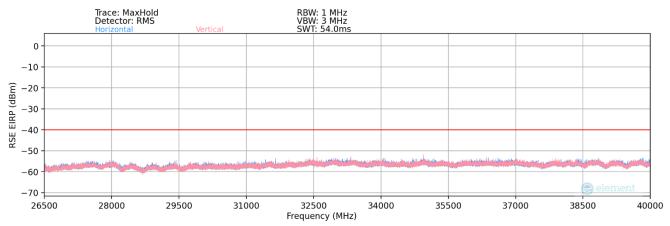


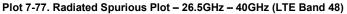
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Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.00	н	-	-	-72.28	-7.86	26.86	-68.39	-40.00	-28.39
10680.00	н	-	-	-71.23	-3.76	32.01	-63.25	-40.00	-23.25
14240.00	н	-	-	-72.15	1.03	35.88	-59.37	-40.00	-19.37
17800.00	Н	-	-	-73.54	8.82	42.28	-52.98	-40.00	-12.98

Table 7-29. Radiated Spurious Data (LTE Band 48 – Low Channel)

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Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	н	-	-	-72.39	-7.55	27.06	-68.20	-40.00	-28.20
10875.00	н	-	-	-71.15	-4.02	31.83	-63.43	-40.00	-23.43
14500.00	н	-	-	-72.06	2.22	37.16	-58.10	-40.00	-18.10
18125.00	н	-	-	-55.12	-3.22	48.66	-56.14	-40.00	-16.14

Table 7-30. Radiated Spurious Data (LTE Band 48 – Mid Channel)

20
3690.0
QPSK
1 / 50
2

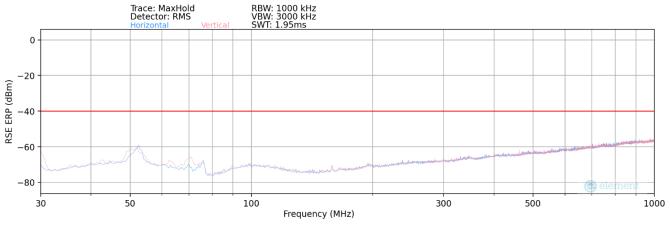
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.00	Н	-	-	-72.36	-7.10	27.54	-67.72	-40.00	-27.72
11070.00	н	-	-	-71.45	-2.84	32.71	-62.55	-40.00	-22.55
14760.00	н	-	-	-72.15	2.81	37.66	-57.60	-40.00	-17.60
18450.00	н	-	-	-55.49	-3.35	48.16	-56.64	-40.00	-16.64

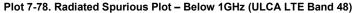
Table 7-31. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: A3LSMX828U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# ULCA LTE Band 48

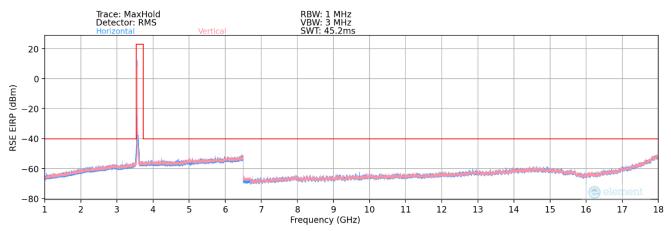


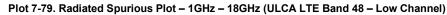


PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1/99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
52.27	н	100	33	-87.71	20.50	39.79	-57.61	-40.00	-17.61
75.72	н	100	279	-91.79	14.18	29.39	-68.02	-40.00	-28.02

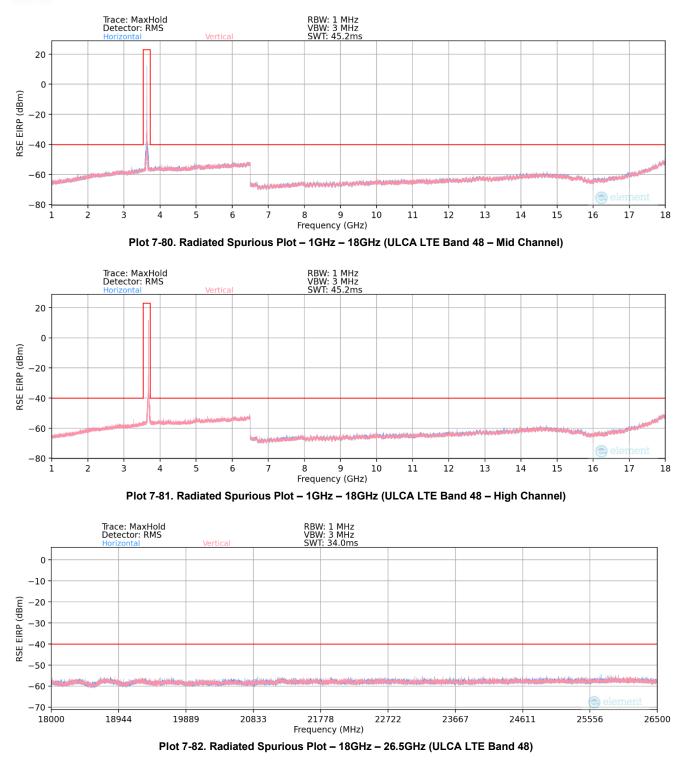
Table 7-32. Radiated Spurious Data – Below 1GHz (ULCA LTE Band 48)





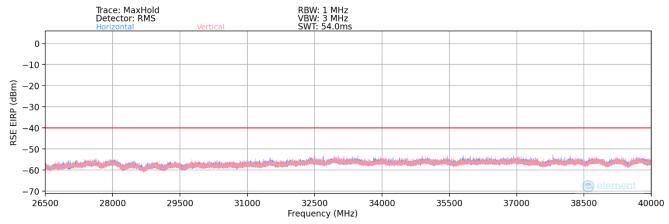
FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT	
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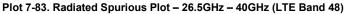




FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1/99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.00	н	-	-	-72.43	-7.86	26.71	-68.54	-40.00	-28.54
10680.00	н	-	-	-71.29	-3.76	31.95	-63.31	-40.00	-23.31
14240.00	н	-	-	-71.89	1.03	36.14	-59.11	-40.00	-19.11
17800.00	Н	-	-	-70.68	8.82	45.14	-50.12	-40.00	-10.12

Table 7-33. Radiated Spurious Data (LTE Band 48 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1/99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB/ Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	н	-	-	-72.39	-7.55	27.06	-68.20	-40.00	-28.20
10875.00	н	-	-	-71.15	-4.02	31.83	-63.43	-40.00	-23.43
14500.00	н	-	-	-72.06	2.22	37.16	-58.10	-40.00	-18.10
18125.00	Н	-	-	-55.49	-3.22	48.29	-56.51	-40.00	-16.51

Table 7-34. Radiated Spurious Data (LTE Band 48 – Mid Channel)

FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT			
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PCC Bandwidth (MHz):	20	
PCC Frequency (MHz):	3690.0	
PCC RB / Offset:	1/99	
SCC Bandwidth (MHz):	20	
SCC Frequency (MHz):	3670.2	
SCC RB / Offset:	1/0	

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.00	н	-	-	-72.27	-7.10	27.63	-67.63	-40.00	-27.63
11070.00	н	-	-	-71.20	-2.84	32.96	-62.30	-40.00	-22.30
14760.00	н	-	-	-72.14	2.81	37.67	-57.59	-40.00	-17.59
18450.00	н	-	-	-55.63	-3.35	48.02	-56.78	-40.00	-16.78

Table 7-35. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: A3LSMX828U		PART 96 MEASUREMENT REPORT			
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