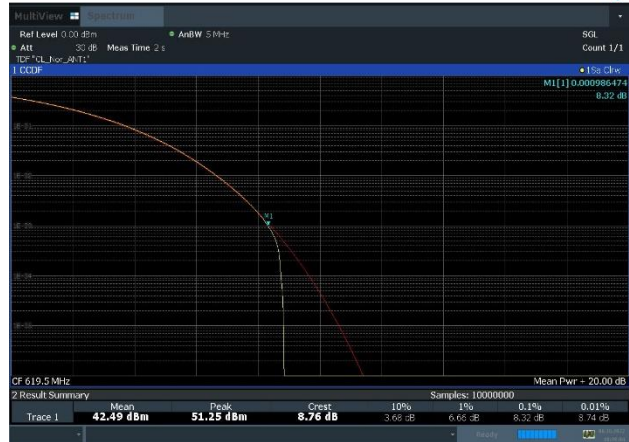
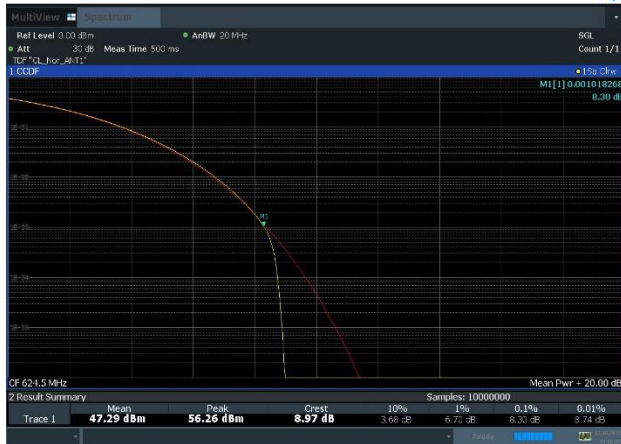


Plot 8-91. Peak To Average Power Ratio Plot (LTE\_B71\_1C\_5M\_QPSK - Mid Channel, Port 0)



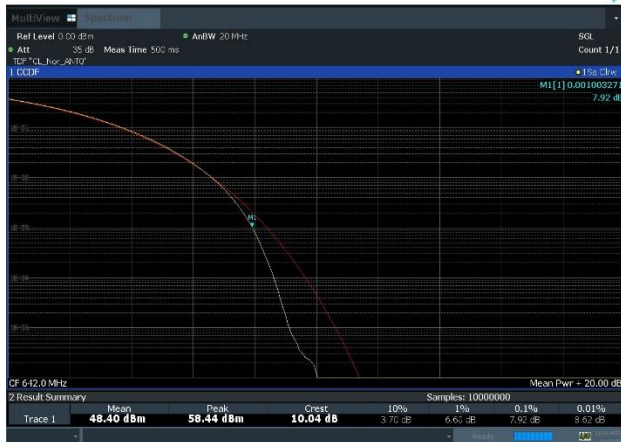
Plot 8-92. Peak To Average Power Ratio Plot (LTE\_B71\_1C\_5M\_256QAM - Low Channel, Port 1)



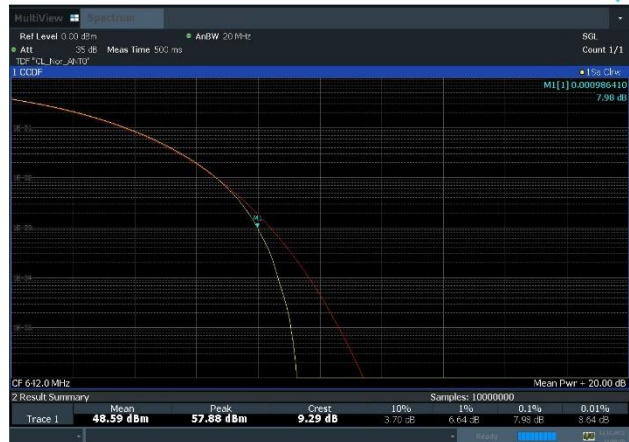
Plot 8-93. Peak To Average Power Ratio Plot (NR\_n71\_1C\_15M\_QPSK - Low Channel, Port 1)



Plot 8-94. Peak To Average Power Ratio Plot (NR\_n71\_1C\_15M\_16QAM - Low Channel, Port 3)

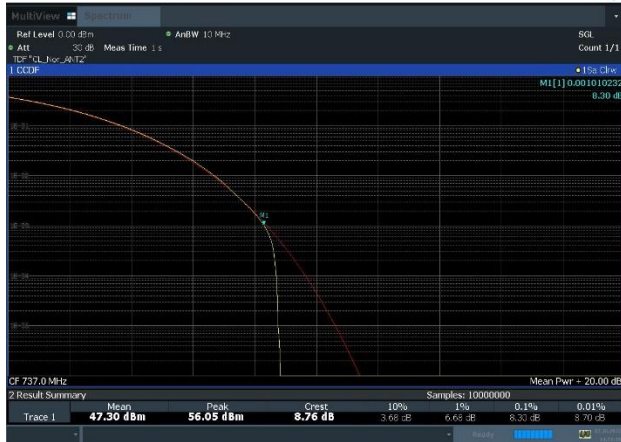


Plot 8-95. Peak To Average Power Ratio Plot (NR\_n71\_1C\_20M\_QPSK - High Channel, Port 0)



Plot 8-96. Peak To Average Power Ratio Plot (NR\_n71\_1C\_20M\_256QAM - High Channel, Port 0)

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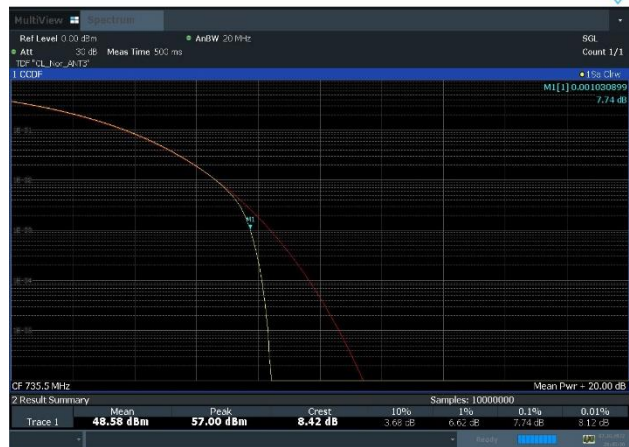
Plot 8-97. Peak To Average Power Ratio Plot (LTE\_B85\_1C\_10M\_QPSK - Mid Channel, Port 2)



Plot 8-98. Peak To Average Power Ratio Plot (LTE\_B85\_1C\_10M\_256QAM - Low Channel, Port 3)



Plot 8-99. Peak To Average Power Ratio Plot (LTE\_B85\_1C\_15M\_QPSK - Mid Channel, Port 1)



Plot 8-100. Peak To Average Power Ratio Plot (LTE\_B85\_1C\_15M\_64QAM - Low Channel, Port 3)



Plot 8-101. Peak To Average Power Ratio Plot (NR\_n85\_1C\_5M\_QPSK - Mid Channel, Port 0)

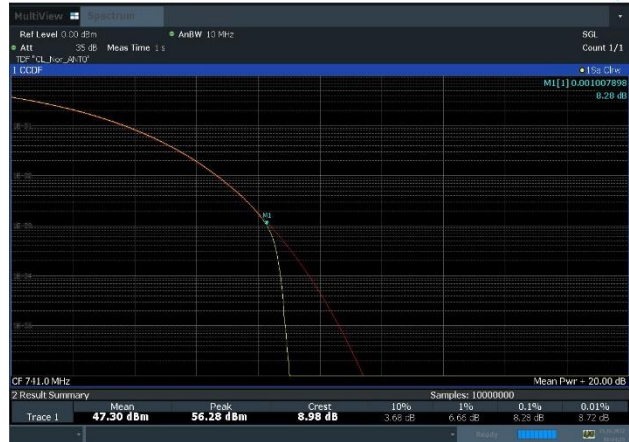


Plot 8-102. Peak To Average Power Ratio Plot (NR\_n85\_1C\_5M\_256QAM - Low Channel, Port 2)

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
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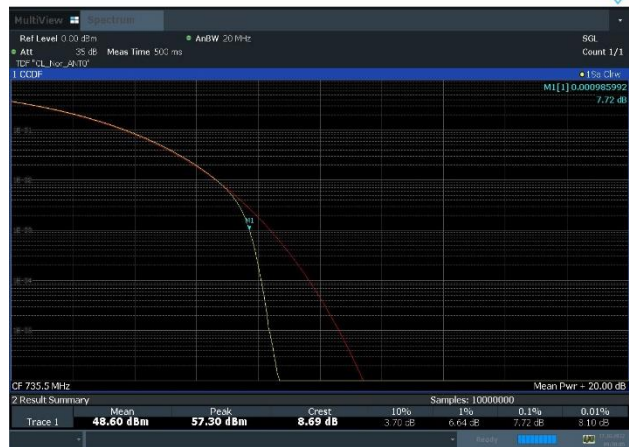
Plot 8-103. Peak To Average Power Ratio Plot (NR\_n85\_1C\_10M\_QPSK - High Channel, Port 2)



Plot 8-104. Peak To Average Power Ratio Plot (NR\_n85\_1C\_10M\_256QAM - Low Channel, Port 0)



Plot 8-105. Peak To Average Power Ratio Plot (NR\_n85\_1C\_15M\_QPSK - Low Channel, Port 1)



Plot 8-106. Peak To Average Power Ratio Plot (NR\_n85\_1C\_15M\_16QAM - Low Channel, Port 0)



Plot 8-107. Peak To Average Power Ratio Plot (LTE\_B71\_2C\_5M+5M\_QPSK - Mid Channel, Port 0)

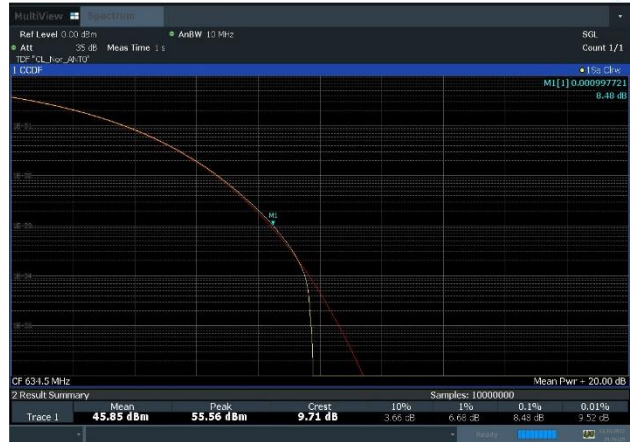


Plot 8-108. Peak To Average Power Ratio Plot (LTE\_B71\_2C\_5M+5M\_16QAM - Mid Channel, Port 0)

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
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Plot 8-109. Peak To Average Power Ratio Plot (NR\_n71\_2C\_5M+5M\_QPSK - Mid Channel, Port 0)



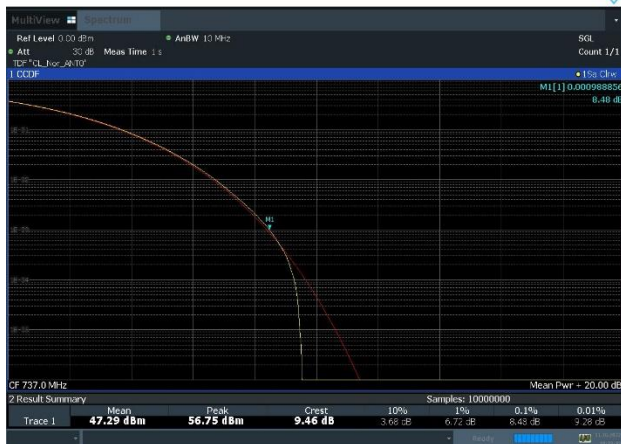
Plot 8-110. Peak To Average Power Ratio Plot (NR\_n71\_2C\_5M+5M\_16QAM - Mid Channel, Port 0)



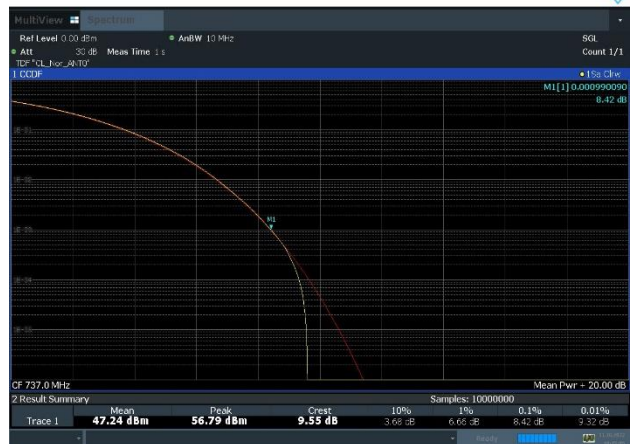
Plot 8-111. Peak To Average Power Ratio Plot (NR\_n71\_2C\_15M+20M\_QPSK - Mid Channel, Port 0)



Plot 8-112. Peak To Average Power Ratio Plot (NR\_n71\_2C\_15M+20M\_16QAM - Mid Channel, Port 0)



Plot 8-113. Peak To Average Power Ratio Plot (LTE\_B85\_2C\_5M+5M\_QPSK - Mid Channel, Port 0)

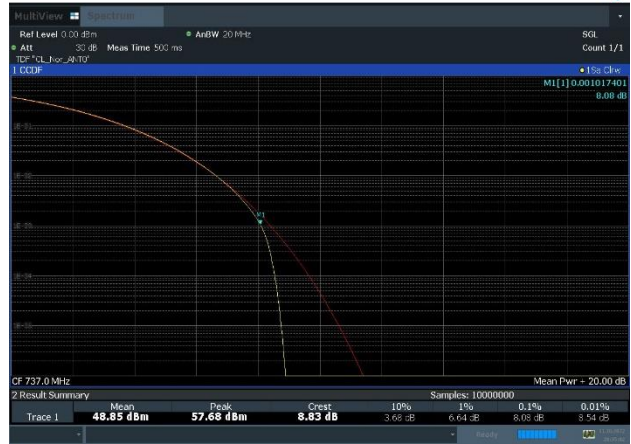


Plot 8-114. Peak To Average Power Ratio Plot (LTE\_B85\_2C\_5M+5M\_16QAM - Mid Channel, Port 0)

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 54 of 126	



Plot 8-115. Peak To Average Power Ratio Plot (LTE\_B85\_2C\_5M+10M\_QPSK - Mid Channel, Port 0)



Plot 8-116. Peak To Average Power Ratio Plot (LTE\_B85\_2C\_5M+5M\_16QAM - Mid Channel, Port 0)



Plot 8-117. Peak To Average Power Ratio Plot (NR\_n85\_2C\_5M+5M\_QPSK - Mid Channel, Port 0)



Plot 8-118. Peak To Average Power Ratio Plot (NR\_n85\_2C\_5M+5M\_16QAM - Mid Channel, Port 0)



Plot 8-119. Peak To Average Power Ratio Plot (NR\_n85\_2C\_5M+10M\_QPSK - Mid Channel, Port 0)



Plot 8-120. Peak To Average Power Ratio Plot (NR\_n85\_2C\_5M+10M\_16QAM - Mid Channel, Port 0)

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)		Page 55 of 126

## 8.5 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.

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

iii) Measure and add  $10 \log(N_{ANT})$  dB

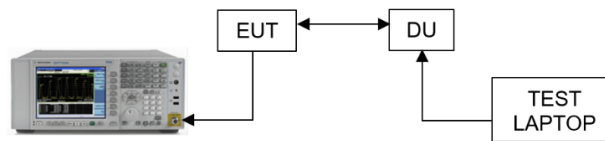
ANSI C63.26-2015 – Section 5.7.3

### Test Setting

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: 30 kHz
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  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 8-4. Test Instrument & Measurement Setup**

### Limit

The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm.



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**Test Notes**

1. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.
2. When the channel edge detect with a margin of under 1dB to Limit, That used to integration method was performed using the spectrum analyzer's band power functions according to ANSI C63.26-2015 – Section 5.7. The spectrum analyzer marker was placed at one-half of the RBW away from the band edge. The integration value was set to a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter.
3. The limits were adjusted by a factor of  $[-10 \cdot \log(4)]$  dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:  
 $MIMO\ Factor = 10 \cdot \log(4) = 6.02\ dB$

Frequency range	Basic Limit (dBm/MHz)	4Tx MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
Low Frequency block – 100kHz	-13	6.02	0	-19.02
High Frequency block + 100kHz	-13	6.02	0	-19.02

Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor

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Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	616.9 to 617	-33.98	-36.35	-35.51	-34.89	-19.02
	1	616.9 to 617	-36.76	-33.86	-35.68	-34.62	
	2	616.9 to 617	-34.62	-34.48	-34.95	-34.50	
	3	616.9 to 617	-36.11	-34.32	-36.31	<b>-33.03</b>	
High	0	652 to 652.1	-35.88	-34.03	-35.70	-35.13	
	1	652 to 652.1	-34.59	-35.81	-35.67	-35.34	
	2	652 to 652.1	-35.34	<b>-33.77</b>	-35.50	-34.34	
	3	652 to 652.1	-34.92	-35.14	-36.42	-34.05	



**Table 8-35. Band Edge Emission Summary Data (LTE\_B71\_1C\_5M)**

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	616.9 to 617	-33.23	-32.98	-33.40	-33.91	-19.02
	1	616.9 to 617	-32.64	-33.40	-33.86	-32.50	
	2	616.9 to 617	-33.44	-33.43	-33.44	-32.99	
	3	616.9 to 617	-34.07	-32.03	<b>-31.43</b>	-33.43	
High	0	652 to 652.1	-34.20	-34.24	-35.03	-33.29	
	1	652 to 652.1	<b>-32.21</b>	-33.65	-34.56	-33.41	
	2	652 to 652.1	-35.74	-34.73	-35.44	-34.30	
	3	652 to 652.1	-35.27	-33.32	-34.19	-33.82	

**Table 8-36. Band Edge Emission Summary Data (NR\_n71\_1C\_15M)**

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	616.9 to 617	-32.11	-32.52	<b>-30.59</b>	-32.79	-19.02
	1	616.9 to 617	-30.76	-32.34	-31.53	-30.92	
	2	616.9 to 617	-30.77	-31.51	-30.80	-32.53	
	3	616.9 to 617	-31.93	-31.78	-31.54	-32.57	
High	0	652 to 652.1	-33.32	-32.57	-32.93	-33.25	
	1	652 to 652.1	-34.77	-34.07	-32.57	-34.40	
	2	652 to 652.1	-33.31	-35.00	<b>-31.52</b>	-33.37	
	3	652 to 652.1	-33.85	-33.81	-32.59	-32.02	

**Table 8-37. Band Edge Emission Summary Data (NR\_n71\_1C\_20M)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 58 of 126	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	727.9 to 728	-31.71	-32.10	-31.44	-29.72	-19.02
	1	727.9 to 728	-31.70	-31.90	-30.96	<b>-27.89</b>	
	2	727.9 to 728	-30.86	-30.59	-29.04	-28.35	
	3	727.9 to 728	-31.65	-31.27	-31.23	-29.84	
High	0	746 to 746.1	-33.33	-33.30	-32.52	-33.52	
	1	746 to 746.1	-32.48	-33.77	-31.81	-32.48	
	2	746 to 746.1	-32.18	-30.13	-29.40	-31.76	
	3	746 to 746.1	-32.83	-31.18	<b>-29.34</b>	-32.21	



**Table 8-38. Band Edge Emission Summary Data (LTE\_B85\_1C\_10M)**

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	727.9 to 728	-28.49	-29.15	-27.17	-28.21	-19.02
	1	727.9 to 728	-28.57	-29.71	-29.21	-25.79	
	2	727.9 to 728	-26.41	-27.68	-26.75	-26.32	
	3	727.9 to 728	<b>-25.51</b>	-27.15	-28.40	-26.58	
High	0	746 to 746.1	-30.07	-30.56	-30.70	-31.28	
	1	746 to 746.1	-29.09	-29.02	-29.88	-30.20	
	2	746 to 746.1	-28.62	-28.40	-28.22	-29.09	
	3	746 to 746.1	-28.91	-27.40	<b>-26.34</b>	-28.60	

**Table 8-39. Band Edge Emission Summary Data (LTE\_B85\_1C\_15M)**

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	727.9 to 728	-32.00	-32.00	-32.63	-33.00	-19.02
	1	727.9 to 728	-33.36	-31.90	-32.24	-31.46	
	2	727.9 to 728	-31.06	-31.96	-33.18	-31.09	
	3	727.9 to 728	-30.72	-29.88	-30.77	<b>-28.79</b>	
High	0	746 to 746.1	-30.75	-32.08	-31.58	-30.69	
	1	746 to 746.1	-30.54	-31.05	<b>-28.66</b>	-30.69	
	2	746 to 746.1	-31.58	-31.70	-30.04	-30.04	
	3	746 to 746.1	-31.06	-29.66	-30.47	-32.09	

**Table 8-40. Band Edge Emission Summary Data (NR\_n85\_1C\_5M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
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Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	727.9 to 728	-29.49	-31.03	-30.71	-31.23	-19.02
	1	727.9 to 728	-29.86	-29.58	-30.05	-30.38	
	2	727.9 to 728	-29.13	-30.35	-29.56	-29.68	
	3	727.9 to 728	-29.17	-28.39	-29.32	<b>-28.36</b>	
High	0	746 to 746.1	-32.59	-32.60	-34.31	-33.48	
	1	746 to 746.1	-32.98	-31.49	-31.97	-31.64	
	2	746 to 746.1	-32.95	<b>-29.46</b>	-31.53	-31.38	
	3	746 to 746.1	-32.31	-31.36	-31.47	-30.29	

**Table 8-41. Band Edge Emission Summary Data (NR\_n85\_1C\_10M)**

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	727.9 to 728	-27.77	-28.75	-27.41	-27.08	-19.02
	1	727.9 to 728	-27.36	-29.76	-26.55	-26.72	
	2	727.9 to 728	-27.07	-27.57	-26.62	-27.54	
	3	727.9 to 728	-26.54	-26.87	<b>-26.44</b>	-27.56	
High	0	746 to 746.1	-31.32	-30.42	-30.23	-30.59	
	1	746 to 746.1	-29.48	-29.95	-28.50	-30.12	
	2	746 to 746.1	-29.87	-28.92	-29.59	-28.16	
	3	746 to 746.1	-30.04	<b>-28.02</b>	-28.89	-29.59	

**Table 8-42. Band Edge Emission Summary Data (NR\_n85\_1C\_15M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>			<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)		Page 60 of 126	

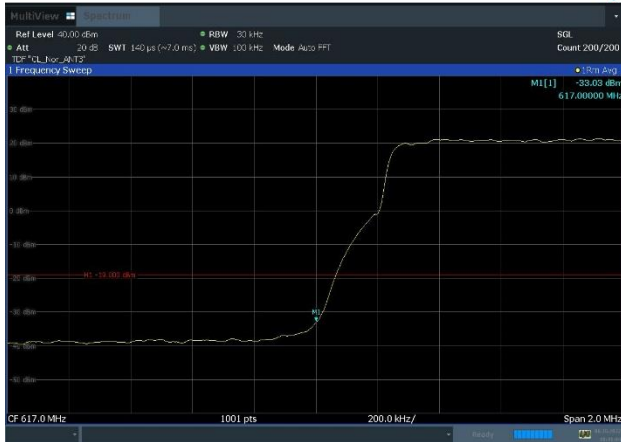
Channel	Max. Value (dBm)				
	Band	Configuration	Measured Range (MHz)	QPSK	Limit (dB)
Low	71	LTE_2C_5M + 5M	616.9 to 617	-33.82	-19.02
		NR_2C_5M + 5M	616.9 to 617	-34.86	
		NR_2C_15M + 20M	616.9 to 617	-31.24	
	85	LTE_2C_5M+5M	727.9 to 728	-26.50	
		LTE_2C_5M+10M	727.9 to 728	-27.25	
		NR_2C_5M+5M	727.9 to 728	-29.49	
		NR_2C_5M+10M	727.9 to 728	-24.35	
High	71	LTE_2C_5M + 5M	652 to 652.1	-35.50	-19.02
		NR_2C_5M + 5M	652 to 652.1	-33.63	
		NR_2C_15M + 20M	652 to 652.1	-33.06	
	85	LTE_2C_5M+5M	746 to 746.1	-26.10	
		LTE_2C_5M+10M	746 to 746.1	-29.41	
		NR_2C_5M+5M	746 to 746.1	-31.33	
		NR_2C_5M+10M	746 to 746.1	-29.06	

**Table 8-43. Band Edge Emission Summary Data (Contiguous\_Multi Carrier)**

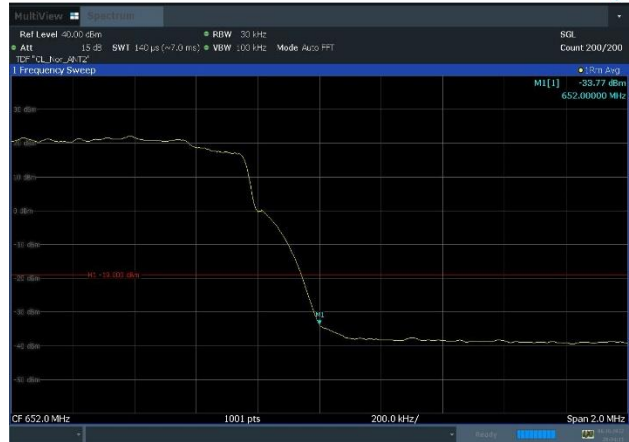
Channel	Max. Value (dBm)				
	Band	Configuration	Measured Range (MHz)	QPSK	Limit (dB)
Low	71	LTE_2NC_5M + 5M	616.9 to 617	-32.22	-19.02
		NR_2NC_5M + 5M	616.9 to 617	-32.50	
	85	LTE_2NC_5M+5M	727.9 to 728	-28.55	
		LTE_2NC_5M+10M	727.9 to 728	-25.67	
		NR_2NC_5M+5M	727.9 to 728	-29.44	
		NR_2NC_5M+10M	727.9 to 728	-26.92	
High	71	LTE_2NC_5M + 5M	652 to 652.1	-32.91	-19.02
		NR_2NC_5M + 5M	652 to 652.1	-33.42	
	85	LTE_2NC_5M+5M	746 to 746.1	-30.35	
		LTE_2NC_5M+10M	746 to 746.1	-29.55	
		NR_2NC_5M+5M	746 to 746.1	-30.80	
		NR_2NC_5M+10M	746 to 746.1	-28.29	

**Table 8-44. Band Edge Emission Summary Data (Non-Contiguous\_Multi Carrier)**

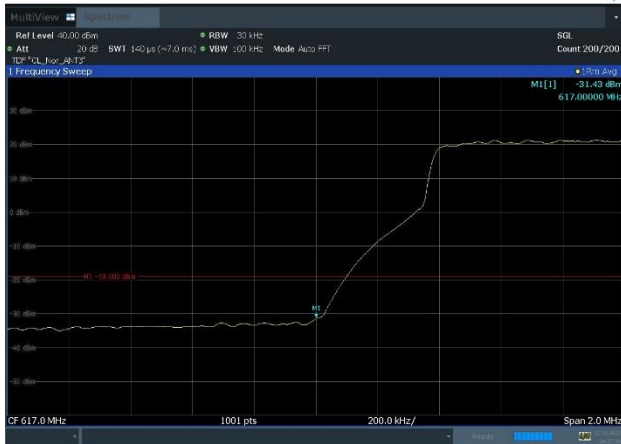
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 61 of 126	



Plot 8-121. Band Edge Emission Plot  
(LTE\_B71\_1C\_5M\_256QAM - Low Channel, Port 3)



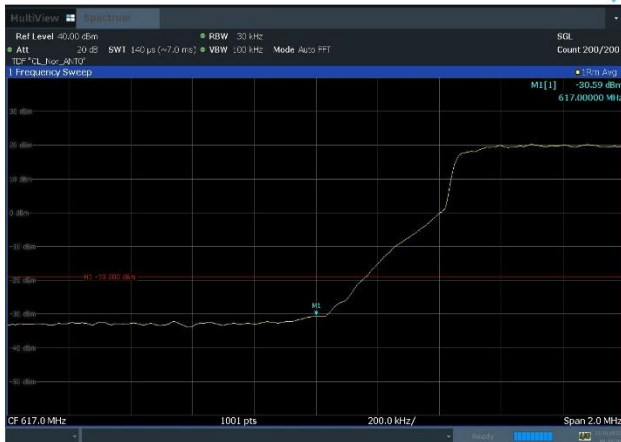
Plot 8-122. Band Edge Emission Plot  
(LTE\_B71\_1C\_5M\_16QAM - High Channel, Port 2)



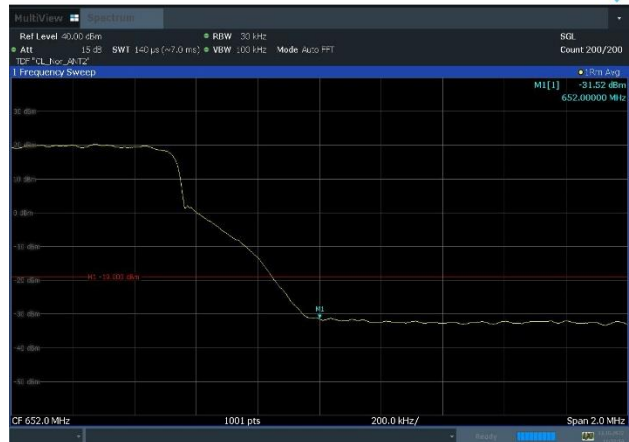
Plot 8-123. Band Edge Emission Plot  
(NR\_n71\_1C\_15M\_64QAM - Low Channel, Port 3)



Plot 8-124. Band Edge Emission Plot  
(NR\_n71\_1C\_15M\_QPSK - High Channel, Port 1)

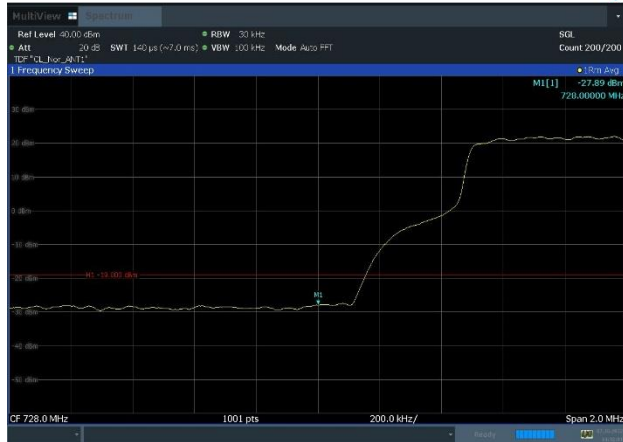


Plot 8-125. Band Edge Emission Plot  
(NR\_n71\_1C\_20M\_64QAM - Low Channel, Port 0)

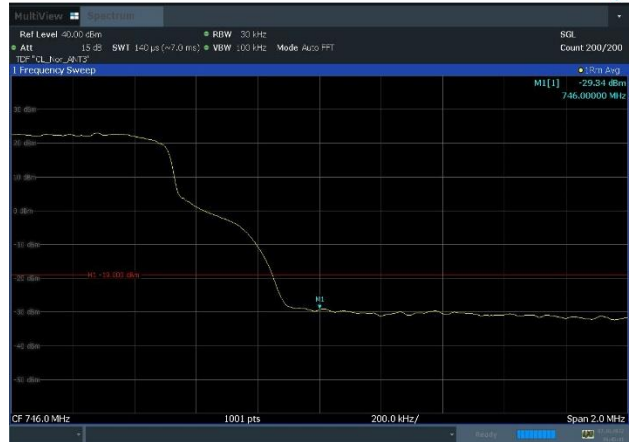


Plot 8-126. Band Edge Emission Plot  
(NR\_n71\_1C\_20M\_64QAM - High Channel, Port 2)

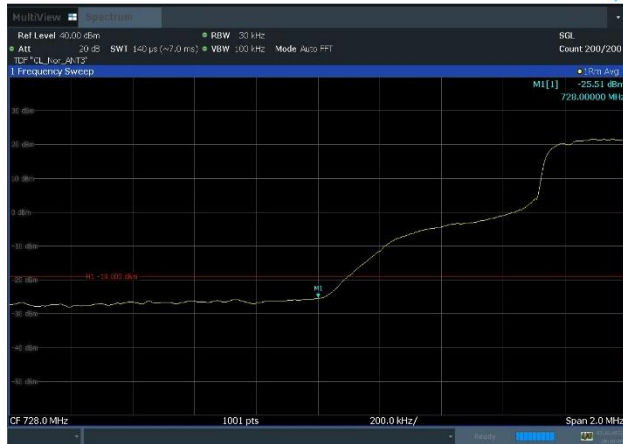
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)		Page 62 of 126



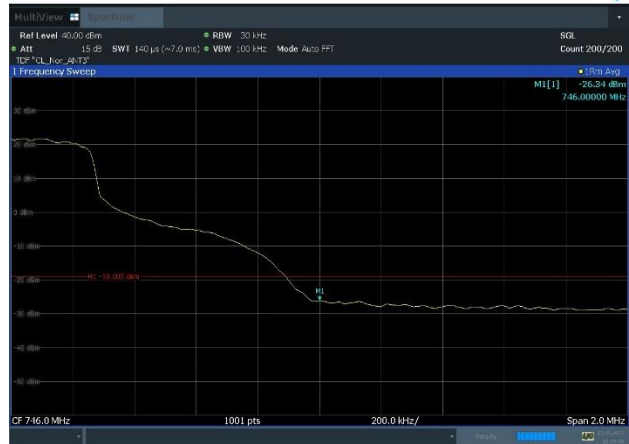
Plot 8-127. Band Edge Emission Plot  
(LTE\_B85\_1C\_10M\_256QAM - Low Channel, Port 1)



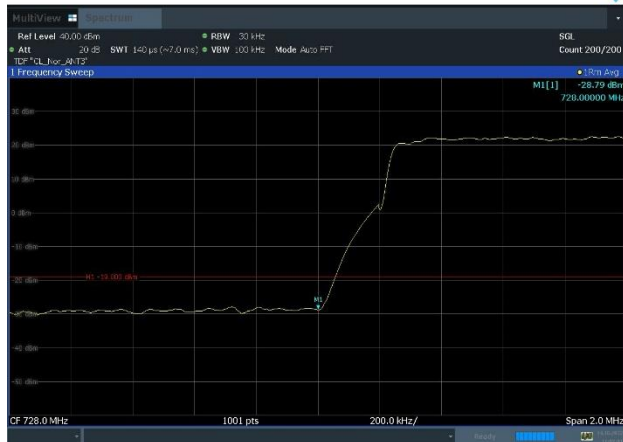
Plot 8-128. Band Edge Emission Plot  
(LTE\_B85\_1C\_10M\_64QAM - High Channel, Port 3)



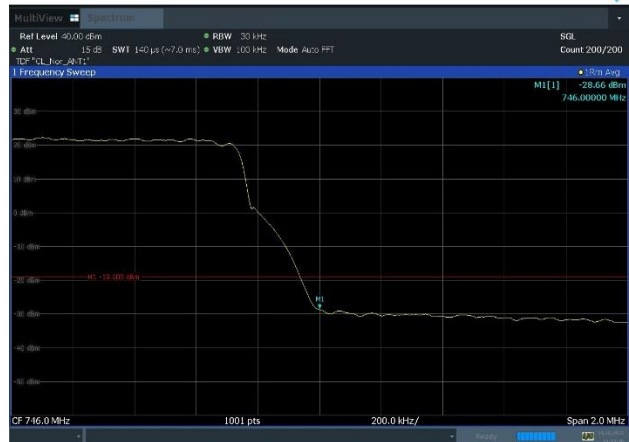
Plot 8-129. Band Edge Emission Plot  
(LTE\_B85\_1C\_15M\_QPSK - Low Channel, Port 3)



Plot 8-130. Band Edge Emission Plot  
(LTE\_B85\_1C\_15M\_64QAM - High Channel, Port 3)

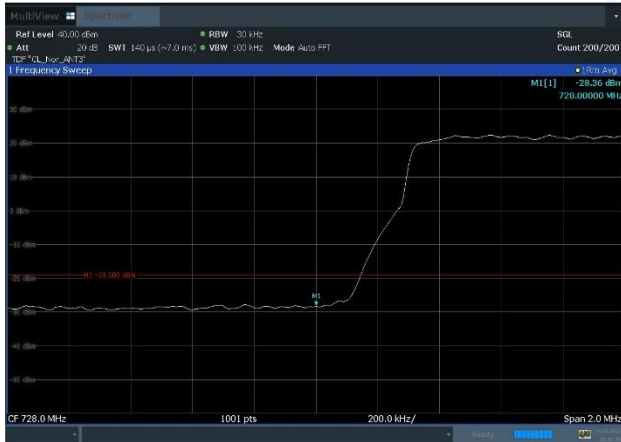


Plot 8-131. Band Edge Emission Plot  
(NR\_n85\_1C\_5M\_256QAM - Low Channel, Port 3)

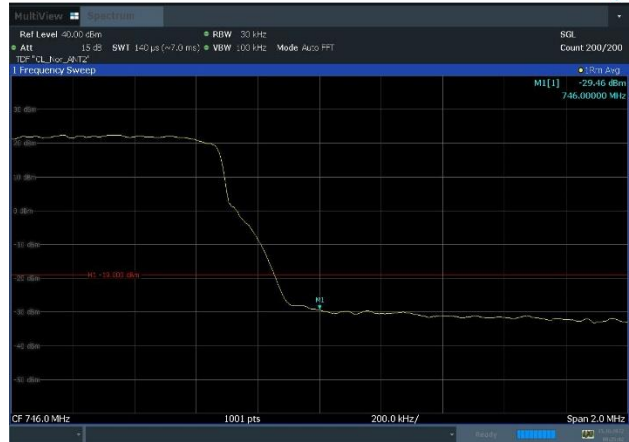


Plot 8-132. Band Edge Emission Plot  
(NR\_n85\_1C\_5M\_64QAM - High Channel, Port 1)

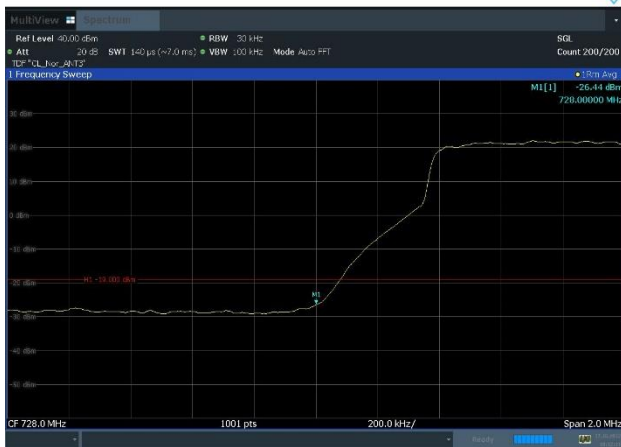
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)		Page 63 of 126



Plot 8-133. Band Edge Emission Plot  
(NR\_n85\_1C\_10M\_256QAM - Low Channel, Port 3)



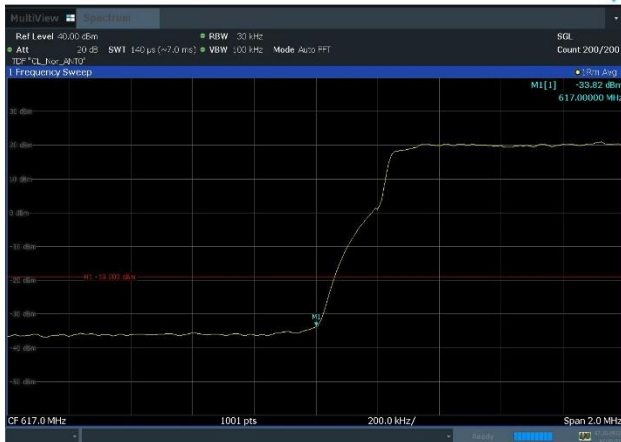
Plot 8-134. Band Edge Emission Plot  
(NR\_n85\_1C\_10M\_16QAM - High Channel, Port 2)



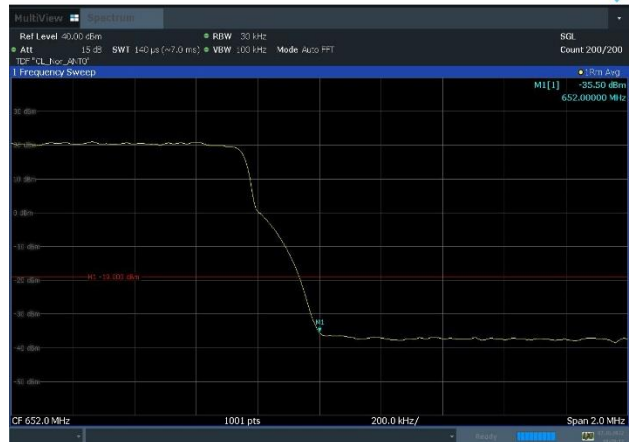
Plot 8-135. Band Edge Emission Plot  
(NR\_n85\_1C\_15M\_64QAM - Low Channel, Port 3)



Plot 8-136. Band Edge Emission Plot  
(NR\_n85\_1C\_15M\_16QAM - High Channel, Port 3)

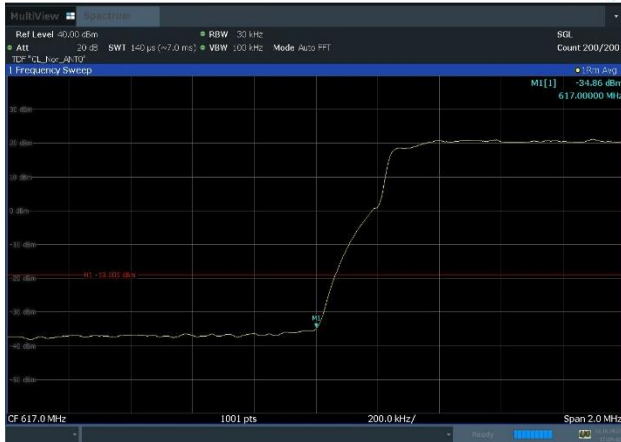


Plot 8-137. Band Edge Emission Plot  
(LTE\_B71\_2C\_5M+5M\_QPSK - Low Channel, Port 0)

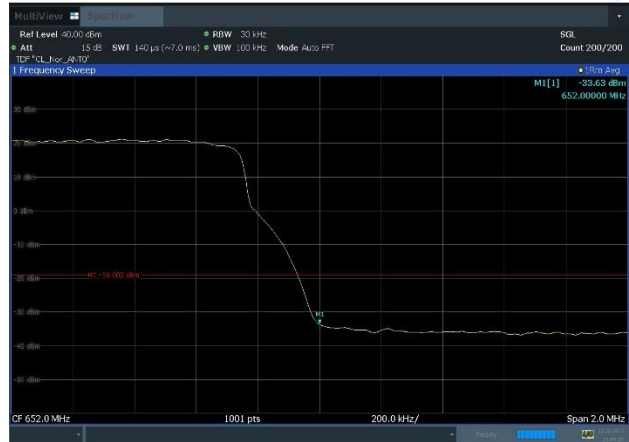


Plot 8-138. Band Edge Emission Plot  
(LTE\_B71\_2C\_5M+5M\_QPSK - High Channel, Port 0)

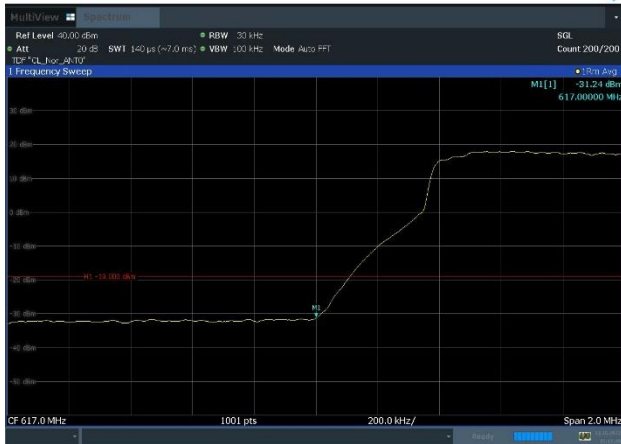
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 64 of 126	



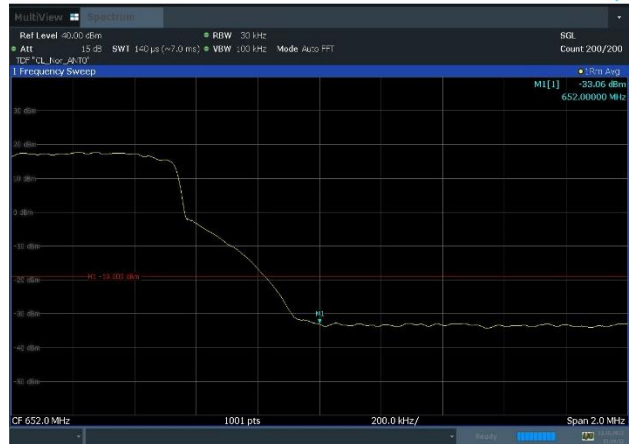
Plot 8-139. Band Edge Emission Plot  
(NR\_n71\_2C\_5M+5M\_QPSK - Low Channel, Port 0)



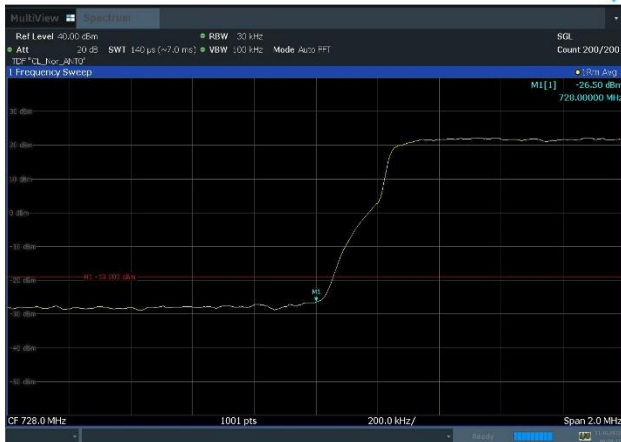
Plot 8-140. Band Edge Emission Plot  
(NR\_n71\_2C\_5M+5M\_QPSK - High Channel, Port 0)



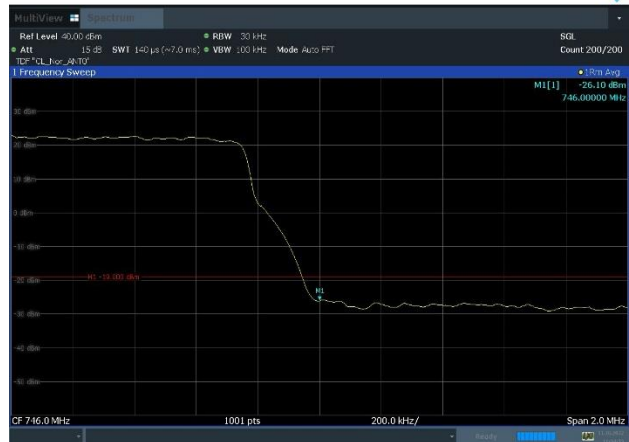
Plot 8-141. Band Edge Emission Plot  
(NR\_n71\_2C\_15M+20M\_QPSK - Low Channel, Port 0)



Plot 8-142. Band Edge Emission Plot  
(NR\_n71\_2C\_15M+20M\_QPSK - High Channel, Port 0)

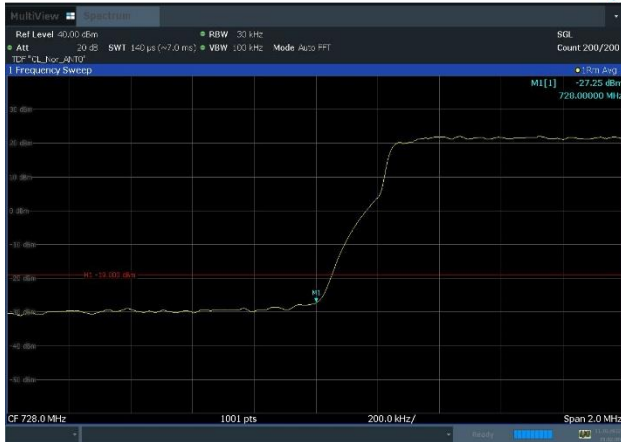


Plot 8-143. Band Edge Emission Plot  
(LTE\_B85\_2C\_5M+5M\_QPSK - Low Channel, Port 0)

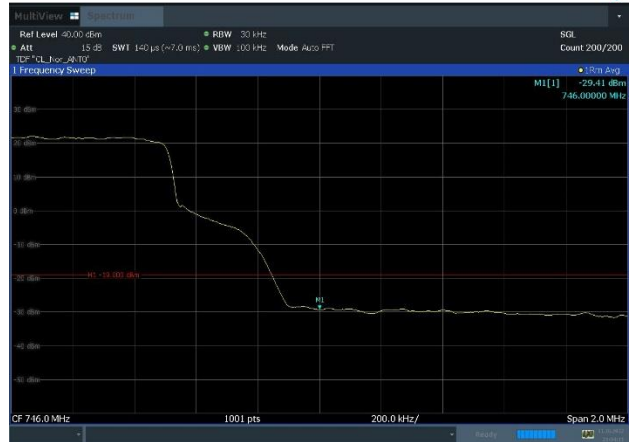


Plot 8-144. Band Edge Emission Plot  
(LTE\_B85\_2C\_5M+5M\_QPSK - High Channel, Port 0)

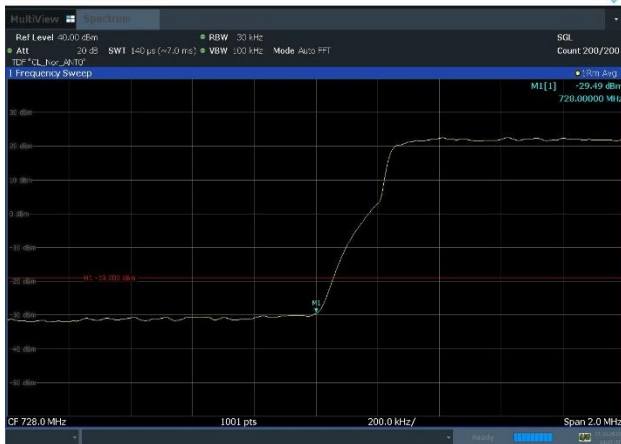
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 65 of 126	



Plot 8-145. Band Edge Emission Plot  
(LTE\_B85\_2C\_5M+10M\_QPSK - Low Channel, Port 0)



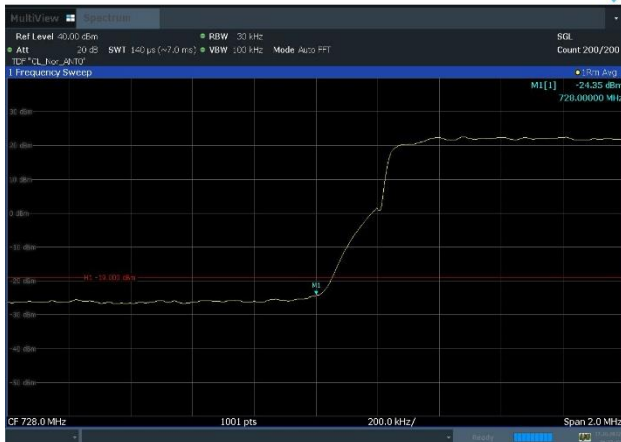
Plot 8-146. Band Edge Emission Plot  
(LTE\_B85\_2C\_5M+10M\_QPSK - High Channel, Port 0)



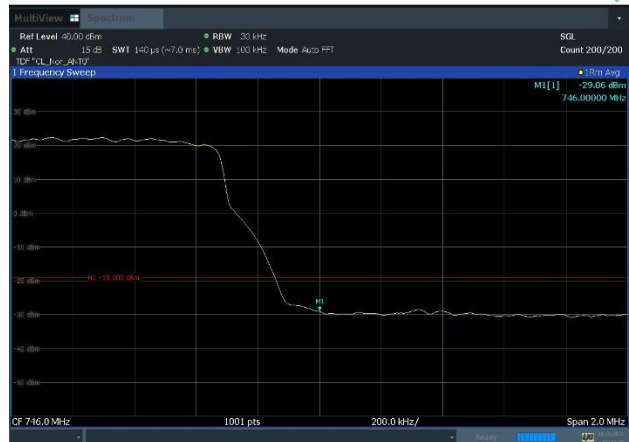
Plot 8-147. Band Edge Emission Plot  
(NR\_n85\_2C\_5M+5M\_QPSK - Low Channel, Port 0)



Plot 8-148. Band Edge Emission Plot  
(NR\_n85\_2C\_5M+5M\_QPSK - High Channel, Port 0)



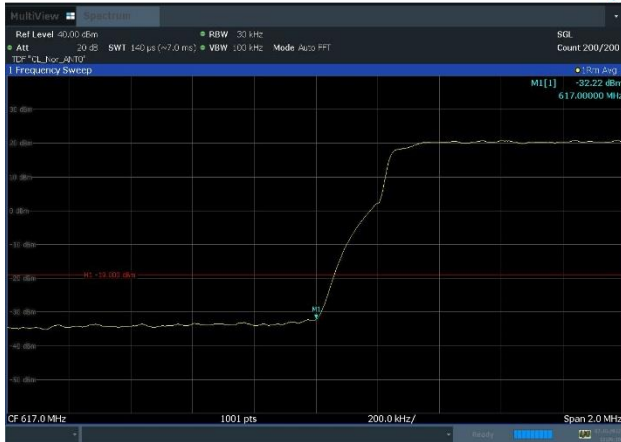
Plot 8-149. Band Edge Emission Plot  
(NR\_n85\_2C\_5M+10M\_QPSK - Low Channel, Port 0)



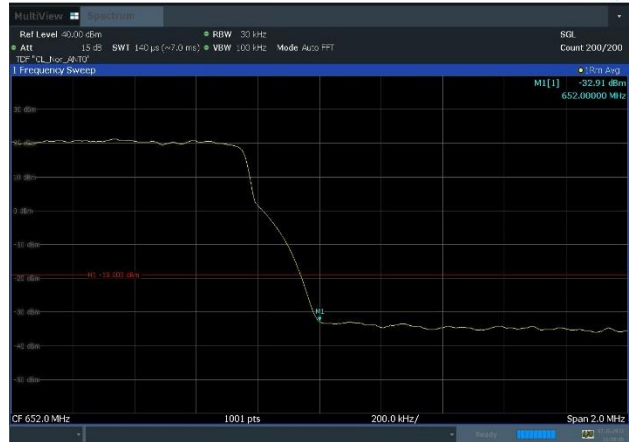
Plot 8-150. Band Edge Emission Plot  
(NR\_n85\_2C\_5M+10M\_QPSK - High Channel, Port 0)

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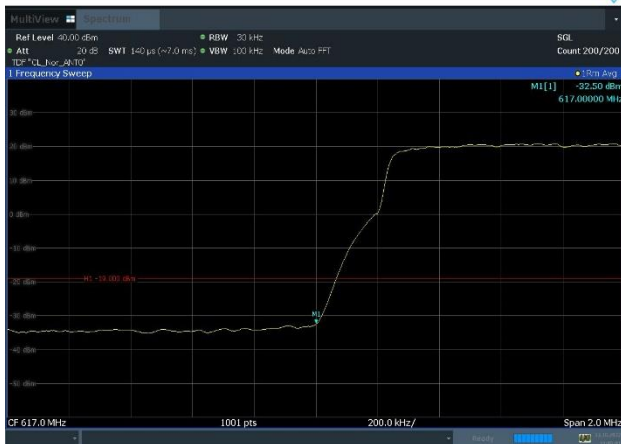




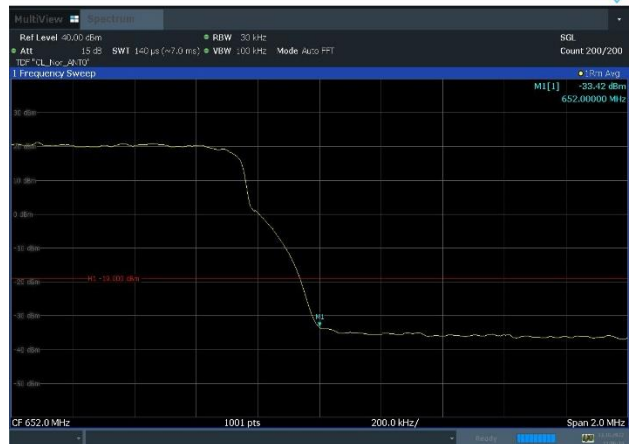
Plot 8-151. Band Edge Emission Plot  
(LTE\_B71\_2NC\_5M+5M\_QPSK - Low Channel, Port 0)



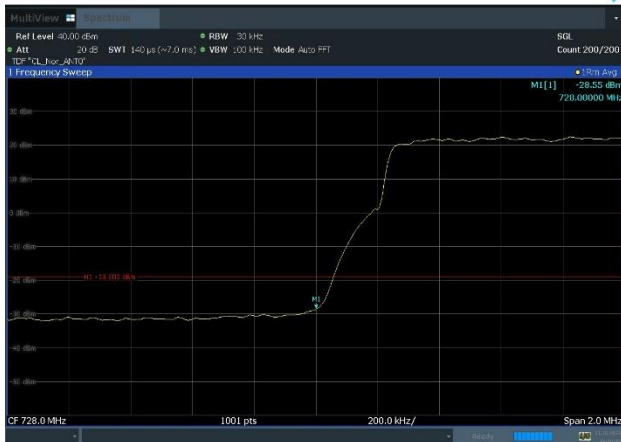
Plot 8-152. Band Edge Emission Plot  
(LTE\_B71\_2NC\_5M+5M\_QPSK - High Channel, Port 0)



Plot 8-153. Band Edge Emission Plot  
(NR\_n71\_2NC\_5M+5M\_QPSK - Low Channel, Port 0)



Plot 8-154. Band Edge Emission Plot  
(NR\_n71\_2NC\_5M+5M\_QPSK - High Channel, Port 0)

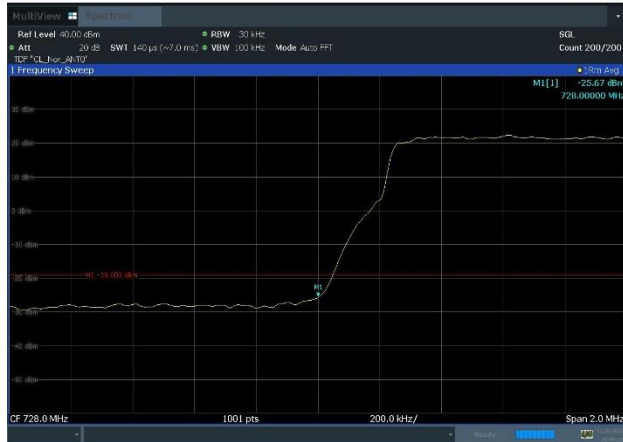


Plot 8-155. Band Edge Emission Plot  
(LTE\_B85\_2NC\_5M+5M\_QPSK - Low Channel, Port 0)



Plot 8-156. Band Edge Emission Plot  
(LTE\_B85\_2NC\_5M+5M\_QPSK - High Channel, Port 0)

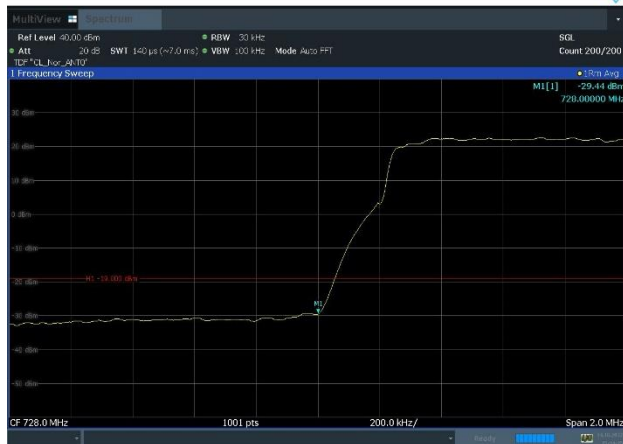
FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
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Plot 8-157. Band Edge Emission Plot  
(LTE\_B85\_2NC\_5M+10M\_QPSK - Low Channel, Port 0)



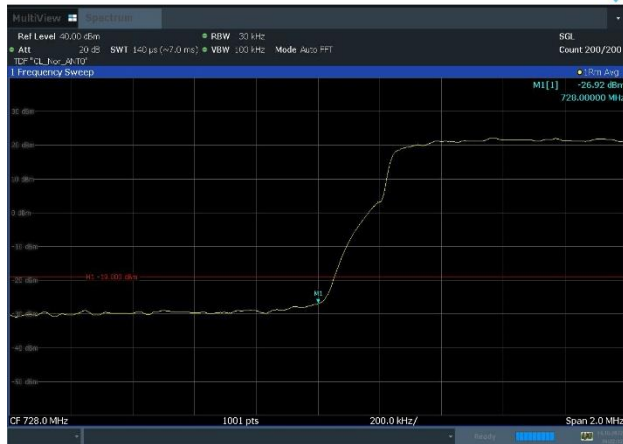
Plot 8-158. Band Edge Emission Plot  
(LTE\_B85\_2NC\_5M+10M\_QPSK - High Channel, Port 0)



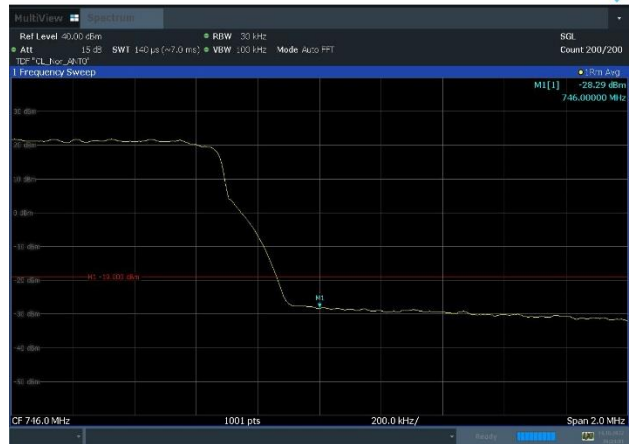
Plot 8-159. Band Edge Emission Plot  
(NR\_n85\_2NC\_5M+5M\_QPSK - Low Channel, Port 0)



Plot 8-160. Band Edge Emission Plot  
(NR\_n85\_2NC\_5M+5M\_QPSK - High Channel, Port 0)



Plot 8-161. Band Edge Emission Plot  
(NR\_n85\_2NC\_5M+10M\_QPSK - Low Channel, Port 0)



Plot 8-162. Band Edge Emission Plot  
(NR\_n85\_2NC\_5M+10M\_QPSK - High Channel, Port 0)

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## 8.6 Spurious and Harmonic Emissions at Antenna Terminal

### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. 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.

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

- a) Absolute Emission Limits
- iii) Measure and add  $10 \log(N_{ANT})$  dB

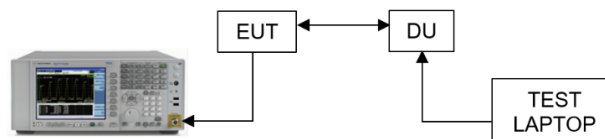
ANSI C63.26-2015 – Section 5.7

### Test Setting

1. Start frequency was set to 9 kHz and stop frequency was set to at least  $10 \times$  the fundamental frequency excluding the frequency range of the band edge measurement.
2. RBW: Please see test notes below.
3.  $VBW \geq 3 \times RBW$
4. Detector = RMS
5. Number of sweep points  $\geq 2 \times$  Span/RBW
6. Trace mode = trace average
7. Sweep time = auto couple
8. The trace was allowed to stabilize

### Test Setup



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



**Figure 8-5. Test Instrument & Measurement Setup**

### Limit

The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm.



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### Test Notes



1. All modes of operation were investigated and the worst configuration result plots are reported in each operating frequency band.
2. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.
3. The limits were adjusted by a factor of  $[-10 \cdot \log(4)]$  dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:  
MIMO Factor =  $10 \cdot \log(4) = 6.02$  dB
4. Narrower RBW parameter is applied according to Section 5.7 of ANSI C63.26-2015 for some edge channels due to improving measurement accuracy. RBW Factor calculation as below:
  - RBW Factor =  $10 \cdot \log(1/0.01) = 20$  dB for the measurement range from 9 kHz to 150 kHz.
  - RBW Factor =  $10 \cdot \log(1/0.1) = 10$  dB for the measurement range from 150 kHz to 30 MHz.

Frequency range	Basic Limit (dBm/MHz)	4 TX MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
9 kHz to 150 kHz	-13	6.02	20	-39.02
150 kHz to 30 MHz	-13	6.02	10	-29.02
30 MHz to 1 GHz	-13	6.02	0	-19.02
1 GHz to 22 GHz	-13	6.02	0	-19.02

Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-64.41	-64.21	-64.58	-64.83	-39.02	-25.19
		150 kHz to 30 MHz	-56.73	-56.57	-56.36	-56.49	-29.02	-27.34
		30 MHz to 616.9 MHz	-33.16	-32.21	-33.09	-30.79	-19.02	-11.77
		652.1 MHz to 1 GHz	-32.62	-32.33	-32.21	-32.58	-19.02	-13.19
		1 GHz to 3 GHz	-30.85	-30.85	-30.49	-30.56	-19.02	-11.47
		3 GHz to 8 GHz	-28.86	-29.08	-29.03	-28.94	-19.02	-9.84
	1	9 kHz to 150 kHz	-64.81	-64.70	-64.67	-64.81	-39.02	-25.65
		150 kHz to 30 MHz	-56.98	-56.41	-56.34	-56.74	-29.02	-27.32
		30 MHz to 616.9 MHz	-32.70	-32.05	-32.52	-31.93	-19.02	-12.91
		652.1 MHz to 1 GHz	-33.33	-33.03	-33.59	-33.31	-19.02	-14.01
		1 GHz to 3 GHz	-30.89	-30.96	-31.06	-30.91	-19.02	-11.87
		3 GHz to 8 GHz	-30.05	-29.56	-30.16	-29.79	-19.02	-10.54
	2	9 kHz to 150 kHz	-64.59	-64.29	-64.85	-64.80	-39.02	-25.27
		150 kHz to 30 MHz	-55.52	-55.30	-55.42	-55.63	-29.02	-26.28
		30 MHz to 616.9 MHz	-31.79	-31.16	-31.86	-31.45	-19.02	-12.14
		652.1 MHz to 1 GHz	-32.04	-32.20	-32.17	-32.30	-19.02	-13.02
		1 GHz to 3 GHz	-30.17	-29.73	-29.90	-30.26	-19.02	-10.71
		3 GHz to 8 GHz	-30.42	-30.46	-30.11	-30.46	-19.02	-11.09
	3	9 kHz to 150 kHz	-64.69	-64.38	-63.90	-64.18	-39.02	-24.88
		150 kHz to 30 MHz	-55.21	-55.44	-55.04	-55.07	-29.02	-26.02
		30 MHz to 616.9 MHz	-31.39	-31.57	-30.69	-30.92	-19.02	-11.67
		652.1 MHz to 1 GHz	-32.46	-32.83	-32.51	-32.87	-19.02	-13.44
		1 GHz to 3 GHz	-30.90	-30.54	-30.38	-30.76	-19.02	-11.36
		3 GHz to 8 GHz	-30.29	-30.56	-30.66	-30.44	-19.02	-11.27
Mid	0	9 kHz to 150 kHz	-64.61	-63.90	-64.08	-64.92	-39.02	-24.88
		150 kHz to 30 MHz	-56.40	-56.23	-56.37	-56.59	-29.02	-27.21
		30 MHz to 616.9 MHz	-34.96	-34.77	-34.80	-35.27	-19.02	-15.75
		652.1 MHz to 1 GHz	-33.87	-33.59	-33.98	-33.69	-19.02	-14.57
		1 GHz to 3 GHz	-30.59	-30.51	-30.56	-30.70	-19.02	-11.49
		3 GHz to 8 GHz	-28.80	-28.92	-29.10	-29.26	-19.02	-9.78
	1	9 kHz to 150 kHz	-64.77	-65.16	-65.01	-64.89	-39.02	-25.75
		150 kHz to 30 MHz	-56.20	-56.14	-56.18	-56.13	-29.02	-27.11
		30 MHz to 616.9 MHz	-35.05	-35.26	-35.06	-35.08	-19.02	-16.03
		652.1 MHz to 1 GHz	-34.51	-34.30	-33.79	-34.08	-19.02	-14.77
		1 GHz to 3 GHz	-31.02	-30.93	-30.59	-30.88	-19.02	-11.57
		3 GHz to 8 GHz	-30.35	-30.24	-29.87	-29.67	-19.02	-10.65
	2	9 kHz to 150 kHz	-64.49	-64.13	-64.49	-64.87	-39.02	-25.11
		150 kHz to 30 MHz	-55.31	-55.33	-55.25	-55.21	-29.02	-26.19
		30 MHz to 616.9 MHz	-34.82	-34.35	-34.29	-35.13	-19.02	-15.27
		652.1 MHz to 1 GHz	-32.61	-33.46	-33.21	-33.15	-19.02	-13.59
		1 GHz to 3 GHz	-30.50	-30.82	-30.28	-30.24	-19.02	-11.22
		3 GHz to 8 GHz	-30.17	-30.66	-30.41	-30.43	-19.02	-11.15



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22092802-00-R1.A3L	Test Dates: 09/29/2022 - 10/26/2022	EUT Type: RRU(RF4435d)		Page 71 of 126

	3	9 kHz to 150 kHz	-64.78	-64.29	-64.62	-64.22	-39.02	-25.20
		150 kHz to 30 MHz	-55.18	-55.02	-55.08	-55.19	-29.02	-26.00
		30 MHz to 616.9 MHz	-34.55	-34.88	-35.01	-34.75	-19.02	-15.53
		652.1 MHz to 1 GHz	-33.27	-33.33	-33.57	-33.27	-19.02	-14.25
		1 GHz to 3 GHz	-30.90	-30.99	-30.58	-30.77	-19.02	-11.56
		3 GHz to 8 GHz	-30.82	-30.61	-30.66	-30.30	-19.02	-11.28
High	0	9 kHz to 150 kHz	-64.81	-64.73	-64.09	-64.41	-39.02	-25.07
		150 kHz to 30 MHz	-55.95	-55.80	-55.76	-56.07	-29.02	-26.74
		30 MHz to 616.9 MHz	-34.50	-34.69	-34.98	-35.01	-19.02	-15.48
		652.1 MHz to 1 GHz	-30.64	-30.11	-31.16	-31.30	-19.02	-11.09
		1 GHz to 3 GHz	-30.84	-30.25	-30.33	-30.69	-19.02	-11.23
		3 GHz to 8 GHz	-29.07	-28.51	-28.69	-28.64	-19.02	-9.49
	1	9 kHz to 150 kHz	-65.17	-64.80	-64.42	-64.79	-39.02	-25.40
		150 kHz to 30 MHz	-55.99	-56.01	-56.10	-56.11	-29.02	-26.97
		30 MHz to 616.9 MHz	-34.48	-34.58	-34.38	-33.72	-19.02	-14.70
		652.1 MHz to 1 GHz	-30.04	-31.29	-31.04	-30.59	-19.02	-11.02
		1 GHz to 3 GHz	-30.54	-30.20	-30.65	-29.48	-19.02	-10.46
		3 GHz to 8 GHz	-30.17	-30.03	-30.12	-29.95	-19.02	-10.93
	2	9 kHz to 150 kHz	-64.57	-64.74	-65.17	-65.03	-39.02	-25.55
		150 kHz to 30 MHz	-55.16	-55.07	-55.10	-54.97	-29.02	-25.95
		30 MHz to 616.9 MHz	-35.06	-34.07	-34.57	-34.86	-19.02	-15.05
		652.1 MHz to 1 GHz	-29.60	-30.73	-30.97	-30.54	-19.02	-10.58
		1 GHz to 3 GHz	-30.22	-30.66	-30.43	-30.46	-19.02	-11.20
		3 GHz to 8 GHz	-30.40	-30.05	-30.48	-30.34	-19.02	-11.03
	3	9 kHz to 150 kHz	-64.27	-64.08	-64.16	-64.27	-39.02	-25.06
		150 kHz to 30 MHz	-54.65	-54.53	-54.23	-54.72	-29.02	-25.21
		30 MHz to 616.9 MHz	-35.06	-34.43	-34.53	-34.34	-19.02	-15.32
		652.1 MHz to 1 GHz	-30.65	-30.41	-30.94	-31.65	-19.02	-11.39
		1 GHz to 3 GHz	-30.46	-29.94	-29.99	-29.59	-19.02	-10.57
		3 GHz to 8 GHz	-30.95	-31.01	-30.82	-30.90	-19.02	-11.80

**Table 8-45. Conducted Spurious Emission Summary Data (LTE\_B71\_1C\_5M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 72 of 126	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-63.66	-63.73	-63.83	-64.04	-39.02	-24.64
		150 kHz to 30 MHz	-50.90	-50.51	-50.37	-50.97	-29.02	-21.35
		30 MHz to 616.9 MHz	-27.94	-27.62	-27.74	-28.94	-19.02	-8.60
		652.1 MHz to 1 GHz	-32.20	-32.29	-32.38	-32.04	-19.02	-13.02
		1 GHz to 3 GHz	-27.45	-27.92	-27.64	-27.94	-19.02	-8.43
		3 GHz to 8 GHz	-28.87	-28.41	-28.53	-28.52	-19.02	-9.39
	1	9 kHz to 150 kHz	-64.23	-64.17	-64.34	-64.57	-39.02	-25.15
		150 kHz to 30 MHz	-50.67	-49.44	-50.35	-50.91	-29.02	-20.42
		30 MHz to 616.9 MHz	-28.00	-29.44	-29.11	-27.80	-19.02	-8.78
		652.1 MHz to 1 GHz	-32.76	-32.70	-32.98	-33.44	-19.02	-13.68
		1 GHz to 3 GHz	-27.90	-27.46	-27.09	-27.81	-19.02	-8.07
		3 GHz to 8 GHz	-28.83	-29.45	-29.17	-29.53	-19.02	-9.81
	2	9 kHz to 150 kHz	-64.30	-63.72	-63.64	-64.06	-39.02	-24.62
		150 kHz to 30 MHz	-49.83	-50.02	-49.56	-49.86	-29.02	-20.54
		30 MHz to 616.9 MHz	-29.76	-27.84	-28.77	-27.79	-19.02	-8.77
		652.1 MHz to 1 GHz	-32.16	-32.34	-32.06	-32.06	-19.02	-13.04
		1 GHz to 3 GHz	-26.96	-27.30	-27.06	-27.10	-19.02	-7.94
		3 GHz to 8 GHz	-29.27	-30.33	-29.72	-30.13	-19.02	-10.25
	3	9 kHz to 150 kHz	-64.35	-63.38	-63.92	-64.15	-39.02	-24.36
		150 kHz to 30 MHz	-49.41	-48.97	-48.54	-48.71	-29.02	-19.52
		30 MHz to 616.9 MHz	-28.14	-28.60	-27.42	-28.08	-19.02	-8.40
		652.1 MHz to 1 GHz	-31.63	-31.42	-31.18	-31.49	-19.02	-12.16
		1 GHz to 3 GHz	-26.43	-26.43	-25.99	-26.15	-19.02	-6.97
		3 GHz to 8 GHz	-30.17	-29.86	-30.18	-29.95	-19.02	-10.84
Mid	0	9 kHz to 150 kHz	-64.47	-64.11	-63.97	-63.60	-39.02	-24.58
		150 kHz to 30 MHz	-50.37	-50.49	-50.39	-50.67	-29.02	-21.35
		30 MHz to 616.9 MHz	-33.16	-33.61	-33.98	-34.11	-19.02	-14.14
		652.1 MHz to 1 GHz	-32.78	-31.84	-32.69	-32.44	-19.02	-12.82
		1 GHz to 3 GHz	-28.15	-28.04	-27.90	-27.83	-19.02	-8.81
		3 GHz to 8 GHz	-28.90	-28.40	-28.15	-29.15	-19.02	-9.13
	1	9 kHz to 150 kHz	-64.34	-64.44	-64.16	-64.37	-39.02	-25.14
		150 kHz to 30 MHz	-51.25	-50.59	-50.58	-50.51	-29.02	-21.49
		30 MHz to 616.9 MHz	-33.69	-33.47	-33.50	-33.01	-19.02	-13.99
		652.1 MHz to 1 GHz	-33.24	-33.76	-32.83	-32.71	-19.02	-13.69
		1 GHz to 3 GHz	-27.31	-27.09	-27.58	-27.02	-19.02	-8.00
		3 GHz to 8 GHz	-29.37	-29.87	-29.75	-29.51	-19.02	-10.35
	2	9 kHz to 150 kHz	-63.90	-64.50	-64.27	-64.00	-39.02	-24.88
		150 kHz to 30 MHz	-49.85	-49.45	-49.52	-50.17	-29.02	-20.43
		30 MHz to 616.9 MHz	-32.04	-32.33	-33.21	-31.95	-19.02	-12.93
		652.1 MHz to 1 GHz	-32.26	-32.47	-32.42	-32.20	-19.02	-13.18
		1 GHz to 3 GHz	-27.34	-27.40	-27.35	-27.37	-19.02	-8.32
		3 GHz to 8 GHz	-30.14	-29.27	-29.68	-29.74	-19.02	-10.25

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
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	3	9 kHz to 150 kHz	-63.79	-64.40	-63.87	-63.79	-39.02	-24.77
		150 kHz to 30 MHz	-48.61	-48.30	-48.29	-48.00	-29.02	-18.98
		30 MHz to 616.9 MHz	-32.35	-32.82	-33.16	-31.74	-19.02	-12.72
		652.1 MHz to 1 GHz	-31.96	-31.31	-31.25	-31.09	-19.02	-12.07
		1 GHz to 3 GHz	-26.43	-26.11	-26.04	-25.67	-19.02	-6.65
		3 GHz to 8 GHz	-30.22	-30.08	-29.91	-29.61	-19.02	-10.59
High	0	9 kHz to 150 kHz	-64.01	-64.15	-64.12	-63.40	-39.02	-24.38
		150 kHz to 30 MHz	-49.97	-49.69	-50.20	-49.69	-29.02	-20.67
		30 MHz to 616.9 MHz	-34.16	-33.94	-34.76	-34.39	-19.02	-14.92
		652.1 MHz to 1 GHz	-28.17	-28.79	-28.01	-29.50	-19.02	-8.99
		1 GHz to 3 GHz	-27.13	-27.15	-27.19	-27.54	-19.02	-8.11
		3 GHz to 8 GHz	-28.28	-28.35	-28.50	-28.00	-19.02	-8.98
	1	9 kHz to 150 kHz	-64.98	-64.43	-63.93	-63.72	-39.02	-24.70
		150 kHz to 30 MHz	-50.36	-50.41	-49.99	-50.25	-29.02	-20.97
		30 MHz to 616.9 MHz	-33.71	-33.51	-33.50	-33.18	-19.02	-14.16
		652.1 MHz to 1 GHz	-27.36	-27.05	-30.21	-29.34	-19.02	-8.03
		1 GHz to 3 GHz	-26.44	-26.78	-26.94	-27.10	-19.02	-7.42
		3 GHz to 8 GHz	-29.28	-30.00	-29.42	-29.23	-19.02	-10.21
	2	9 kHz to 150 kHz	-64.24	-64.07	-63.89	-63.38	-39.02	-24.36
		150 kHz to 30 MHz	-49.51	-49.34	-49.61	-49.53	-29.02	-20.32
		30 MHz to 616.9 MHz	-33.83	-33.77	-34.03	-34.28	-19.02	-14.75
		652.1 MHz to 1 GHz	-30.02	-30.09	-30.00	-29.60	-19.02	-10.58
		1 GHz to 3 GHz	-26.91	-26.88	-26.67	-26.44	-19.02	-7.42
		3 GHz to 8 GHz	-30.32	-30.45	-29.03	-29.81	-19.02	-10.01
	3	9 kHz to 150 kHz	-63.98	-63.80	-63.70	-63.60	-39.02	-24.58
		150 kHz to 30 MHz	-48.18	-48.59	-47.94	-48.04	-29.02	-18.92
		30 MHz to 616.9 MHz	-33.91	-33.69	-34.11	-33.62	-19.02	-14.60
		652.1 MHz to 1 GHz	-29.44	-28.25	-29.32	-28.57	-19.02	-9.23
		1 GHz to 3 GHz	-25.76	-26.17	-25.75	-25.74	-19.02	-6.72
		3 GHz to 8 GHz	-29.97	-29.59	-30.27	-29.92	-19.02	-10.57

**Table 8-46. Conducted Spurious Emission Summary Data (NR\_n71\_1C\_15M)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 74 of 126	





Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-63.35	-63.61	-63.62	-63.34	-39.02	-24.32
		150 kHz to 30 MHz	-50.03	-50.03	-49.69	-49.82	-29.02	-20.67
		30 MHz to 616.9 MHz	-26.48	-26.03	-25.39	-26.56	-19.02	-6.37
		652.1 MHz to 1 GHz	-31.74	-32.16	-30.80	-31.90	-19.02	-11.78
		1 GHz to 3 GHz	-27.36	-27.80	-27.45	-27.44	-19.02	-8.34
		3 GHz to 8 GHz	-27.78	-28.56	-28.35	-28.24	-19.02	-8.76
	1	9 kHz to 150 kHz	-63.61	-63.86	-64.32	-63.30	-39.02	-24.28
		150 kHz to 30 MHz	-49.19	-49.93	-49.26	-48.98	-29.02	-19.96
		30 MHz to 616.9 MHz	-26.32	-26.11	-26.62	-25.51	-19.02	-6.49
		652.1 MHz to 1 GHz	-31.03	-31.83	-30.61	-31.09	-19.02	-11.59
		1 GHz to 3 GHz	-26.52	-26.77	-26.96	-26.60	-19.02	-7.50
		3 GHz to 8 GHz	-29.25	-28.92	-29.25	-29.26	-19.02	-9.90
	2	9 kHz to 150 kHz	-63.79	-63.24	-63.66	-63.41	-39.02	-24.22
		150 kHz to 30 MHz	-48.83	-48.87	-49.20	-49.14	-29.02	-19.81
		30 MHz to 616.9 MHz	-26.16	-26.16	-26.73	-27.23	-19.02	-7.14
		652.1 MHz to 1 GHz	-29.79	-31.02	-29.92	-30.62	-19.02	-10.77
		1 GHz to 3 GHz	-26.70	-26.87	-26.75	-26.49	-19.02	-7.47
		3 GHz to 8 GHz	-29.50	-29.67	-29.47	-30.06	-19.02	-10.45
	3	9 kHz to 150 kHz	-63.87	-63.99	-63.45	-63.41	-39.02	-24.39
		150 kHz to 30 MHz	-48.27	-48.42	-48.66	-48.30	-29.02	-19.25
		30 MHz to 616.9 MHz	-27.08	-26.68	-26.64	-27.83	-19.02	-7.62
		652.1 MHz to 1 GHz	-30.85	-31.57	-30.44	-31.01	-19.02	-11.42
		1 GHz to 3 GHz	-26.43	-26.53	-26.57	-26.24	-19.02	-7.22
		3 GHz to 8 GHz	-30.57	-30.10	-29.46	-30.52	-19.02	-10.44
Mid	0	9 kHz to 150 kHz	-62.92	-62.97	-63.20	-63.08	-39.02	-23.90
		150 kHz to 30 MHz	-49.65	-49.98	-49.73	-49.63	-29.02	-20.61
		30 MHz to 616.9 MHz	-31.15	-31.15	-31.90	-31.03	-19.02	-12.01
		652.1 MHz to 1 GHz	-30.10	-30.47	-30.71	-30.75	-19.02	-11.08
		1 GHz to 3 GHz	-27.36	-27.31	-27.24	-27.26	-19.02	-8.22
		3 GHz to 8 GHz	-28.77	-28.19	-28.81	-28.50	-19.02	-9.17
	1	9 kHz to 150 kHz	-63.57	-63.99	-63.70	-63.30	-39.02	-24.28
		150 kHz to 30 MHz	-48.78	-48.71	-49.29	-48.82	-29.02	-19.69
		30 MHz to 616.9 MHz	-30.72	-31.36	-31.92	-32.13	-19.02	-11.70
		652.1 MHz to 1 GHz	-29.57	-31.64	-31.96	-32.31	-19.02	-10.55
		1 GHz to 3 GHz	-26.31	-26.77	-26.46	-26.52	-19.02	-7.29
		3 GHz to 8 GHz	-29.62	-29.75	-29.86	-29.20	-19.02	-10.18
	2	9 kHz to 150 kHz	-62.97	-63.31	-63.40	-62.84	-39.02	-23.82
		150 kHz to 30 MHz	-48.91	-48.94	-49.19	-48.92	-29.02	-19.89
		30 MHz to 616.9 MHz	-31.03	-31.56	-30.83	-31.38	-19.02	-11.81
		652.1 MHz to 1 GHz	-30.59	-31.26	-30.69	-30.80	-19.02	-11.57
		1 GHz to 3 GHz	-26.49	-26.93	-26.38	-26.55	-19.02	-7.36
		3 GHz to 8 GHz	-29.76	-29.93	-30.14	-29.62	-19.02	-10.60



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	3	9 kHz to 150 kHz	-62.84	-63.47	-63.06	-63.11	-39.02	-23.82
		150 kHz to 30 MHz	-47.90	-47.27	-47.59	-47.73	-29.02	-18.25
		30 MHz to 616.9 MHz	-31.16	-31.13	-31.69	-31.35	-19.02	-12.11
		652.1 MHz to 1 GHz	-31.98	-30.91	-31.32	-30.88	-19.02	-11.86
		1 GHz to 3 GHz	-25.87	-25.96	-25.89	-25.76	-19.02	-6.74
		3 GHz to 8 GHz	-29.91	-29.77	-30.07	-29.90	-19.02	-10.75
High	0	9 kHz to 150 kHz	-63.20	-63.23	-63.32	-62.99	-39.02	-23.97
		150 kHz to 30 MHz	-49.13	-49.46	-49.11	-49.10	-29.02	-20.08
		30 MHz to 616.9 MHz	-33.06	-32.83	-32.44	-32.98	-19.02	-13.42
		652.1 MHz to 1 GHz	-26.78	-28.00	-27.32	-27.28	-19.02	-7.76
		1 GHz to 3 GHz	-26.75	-27.09	-26.88	-26.50	-19.02	-7.48
		3 GHz to 8 GHz	-28.66	-28.70	-28.71	-28.35	-19.02	-9.33
	1	9 kHz to 150 kHz	-63.75	-63.91	-63.58	-63.73	-39.02	-24.56
		150 kHz to 30 MHz	-48.89	-49.03	-48.83	-48.56	-29.02	-19.54
		30 MHz to 616.9 MHz	-32.34	-33.17	-33.40	-32.15	-19.02	-13.13
		652.1 MHz to 1 GHz	-25.74	-27.90	-28.72	-29.14	-19.02	-6.72
		1 GHz to 3 GHz	-26.16	-26.22	-26.10	-26.18	-19.02	-7.08
		3 GHz to 8 GHz	-29.92	-29.57	-29.47	-29.28	-19.02	-10.26
	2	9 kHz to 150 kHz	-63.29	-63.35	-63.33	-63.31	-39.02	-24.27
		150 kHz to 30 MHz	-48.68	-48.50	-48.59	-48.49	-29.02	-19.47
		30 MHz to 616.9 MHz	-32.37	-33.22	-31.74	-32.87	-19.02	-12.72
		652.1 MHz to 1 GHz	-28.20	-28.32	-29.20	-29.21	-19.02	-9.18
		1 GHz to 3 GHz	-26.22	-26.11	-26.11	-25.85	-19.02	-6.83
		3 GHz to 8 GHz	-29.38	-29.95	-29.95	-29.86	-19.02	-10.36
	3	9 kHz to 150 kHz	-63.02	-63.26	-63.13	<b>-63.09</b>	-39.02	-24.00
		150 kHz to 30 MHz	-47.55	-47.50	-47.28	<b>-47.34</b>	-29.02	-18.26
		30 MHz to 616.9 MHz	-31.72	-33.17	-32.24	<b>-32.98</b>	-19.02	-12.70
		652.1 MHz to 1 GHz	-27.15	-28.74	-29.43	<b>-27.48</b>	-19.02	-8.13
		1 GHz to 3 GHz	-25.61	-25.83	-25.20	<b>-24.75</b>	-19.02	<b>-5.73</b>
		3 GHz to 8 GHz	-29.92	-30.35	-30.31	<b>-30.74</b>	-19.02	-10.90

**Table 8-47. Conducted Spurious Emission Summary Data (NR\_n71\_1C\_20M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 76 of 126	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-64.81	-64.89	-65.69	-64.82	-39.02	-25.79
		150 kHz to 30 MHz	-51.03	-51.12	-50.97	-50.92	-29.02	-21.90
		30 MHz to 727.9 MHz	-26.38	-25.25	-24.22	-20.94	-19.02	-1.92
		746.1 MHz to 1 GHz	-32.01	-32.64	-32.08	-31.50	-19.02	-12.48
		1 GHz to 3 GHz	-26.56	-26.75	-26.58	-26.36	-19.02	-7.34
		3 GHz to 8 GHz	-29.23	-29.14	-29.14	-29.08	-19.02	-10.06
	1	9 kHz to 150 kHz	-64.82	-64.95	-65.66	-65.72	-39.02	-25.80
		150 kHz to 30 MHz	-51.78	-52.05	-51.67	-51.60	-29.02	-22.58
		30 MHz to 727.9 MHz	-24.16	-24.31	-21.19	-21.36	-19.02	-2.17
		746.1 MHz to 1 GHz	-32.34	-32.13	-32.23	-29.39	-19.02	-10.37
		1 GHz to 3 GHz	-26.67	-26.21	-26.45	-26.03	-19.02	-7.01
		3 GHz to 8 GHz	-29.49	-29.95	-29.99	-30.22	-19.02	-10.47
	2	9 kHz to 150 kHz	-65.31	-64.92	-65.20	-64.98	-39.02	-25.90
		150 kHz to 30 MHz	-51.28	-50.68	-51.04	-50.91	-29.02	-21.66
		30 MHz to 727.9 MHz	-25.67	-25.03	-20.26	-21.80	-19.02	-1.24
		746.1 MHz to 1 GHz	-32.47	-32.35	-32.00	-29.95	-19.02	-10.93
		1 GHz to 3 GHz	-26.78	-26.48	-26.66	-26.77	-19.02	-7.46
		3 GHz to 8 GHz	-30.06	-30.20	-30.69	-30.19	-19.02	-11.04
	3	9 kHz to 150 kHz	-64.83	-64.68	-65.45	-64.96	-39.02	-25.66
		150 kHz to 30 MHz	-50.20	-50.33	-49.97	-49.74	-29.02	-20.72
		30 MHz to 727.9 MHz	-25.36	-23.50	-21.33	-21.48	-19.02	-2.31
		746.1 MHz to 1 GHz	-31.04	-32.02	-31.48	-28.25	-19.02	-9.23
		1 GHz to 3 GHz	-25.70	-25.70	-26.04	-25.70	-19.02	-6.68
		3 GHz to 8 GHz	-30.60	-30.74	-30.92	-30.92	-19.02	-11.58
Mid	0	9 kHz to 150 kHz	-65.25	-64.77	-64.89	-65.23	-39.02	-25.75
		150 kHz to 30 MHz	-50.59	-50.67	-50.82	-50.63	-29.02	-21.57
		30 MHz to 727.9 MHz	-31.30	-29.83	-29.07	-28.43	-19.02	-9.41
		746.1 MHz to 1 GHz	-33.73	-30.19	-30.40	-28.22	-19.02	-9.20
		1 GHz to 3 GHz	-26.65	-26.87	-26.48	-26.04	-19.02	-7.02
		3 GHz to 8 GHz	-28.76	-29.06	-28.82	-29.27	-19.02	-9.74
	1	9 kHz to 150 kHz	-65.32	-64.80	-64.78	-64.88	-39.02	-25.76
		150 kHz to 30 MHz	-51.79	-51.77	-51.68	-51.40	-29.02	-22.38
		30 MHz to 727.9 MHz	-28.79	-30.39	-29.29	-27.92	-19.02	-8.90
		746.1 MHz to 1 GHz	-33.37	-29.30	-29.68	-26.70	-19.02	-7.68
		1 GHz to 3 GHz	-26.15	-26.32	-26.30	-26.14	-19.02	-7.12
		3 GHz to 8 GHz	-30.00	-30.13	-29.94	-29.97	-19.02	-10.92
	2	9 kHz to 150 kHz	-64.73	-64.70	-64.89	-64.73	-39.02	-25.68
		150 kHz to 30 MHz	-51.07	-50.30	-50.99	-50.98	-29.02	-21.28
		30 MHz to 727.9 MHz	-30.90	-28.94	-28.95	-26.71	-19.02	-7.69
		746.1 MHz to 1 GHz	-32.43	-28.53	-28.62	-26.78	-19.02	-7.76
		1 GHz to 3 GHz	-26.33	-26.41	-26.60	-26.65	-19.02	-7.31
		3 GHz to 8 GHz	-30.39	-30.37	-30.63	-29.99	-19.02	-10.97



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 77 of 126	

	3	9 kHz to 150 kHz	-65.13	-65.11	-64.49	-65.13	-39.02	-25.47
		150 kHz to 30 MHz	-49.51	-49.50	-49.83	-49.54	-29.02	-20.48
		30 MHz to 727.9 MHz	-29.09	-28.77	-29.87	-25.96	-19.02	-6.94
		746.1 MHz to 1 GHz	-32.86	-28.64	-28.14	-27.29	-19.02	-8.27
		1 GHz to 3 GHz	-25.75	-25.69	-25.47	-25.24	-19.02	-6.22
		3 GHz to 8 GHz	-30.79	-30.51	-30.39	-30.66	-19.02	-11.37
High	0	9 kHz to 150 kHz	-65.01	-65.16	-64.28	-65.22	-39.02	-25.26
		150 kHz to 30 MHz	-50.60	-50.90	-50.82	-50.65	-29.02	-21.58
		30 MHz to 727.9 MHz	-32.75	-32.83	-32.53	-32.23	-19.02	-13.21
		746.1 MHz to 1 GHz	-24.51	-23.40	-28.00	-29.81	-19.02	-4.38
		1 GHz to 3 GHz	-25.93	-26.48	-26.68	-25.87	-19.02	-6.85
		3 GHz to 8 GHz	-29.21	-29.22	-28.96	-29.25	-19.02	-9.94
	1	9 kHz to 150 kHz	-65.19	-65.55	-64.85	-64.74	-39.02	-25.72
		150 kHz to 30 MHz	-52.02	-52.31	-52.15	-52.44	-29.02	-23.00
		30 MHz to 727.9 MHz	-32.33	-32.70	-33.32	-31.91	-19.02	-12.89
		746.1 MHz to 1 GHz	-24.37	-26.52	-25.68	-26.04	-19.02	-5.35
		1 GHz to 3 GHz	-25.95	-25.74	-26.42	-25.89	-19.02	-6.72
		3 GHz to 8 GHz	-29.81	-30.13	-29.90	-30.11	-19.02	-10.79
	2	9 kHz to 150 kHz	-65.15	-64.74	-64.87	-64.68	-39.02	-25.66
		150 kHz to 30 MHz	-50.81	-50.59	-51.10	-50.94	-29.02	-21.57
		30 MHz to 727.9 MHz	-32.02	-32.51	-32.04	-31.99	-19.02	-12.97
		746.1 MHz to 1 GHz	-26.50	-22.73	-24.46	-24.69	-19.02	-3.71
		1 GHz to 3 GHz	-25.76	-26.57	-26.13	-26.68	-19.02	-6.74
		3 GHz to 8 GHz	-30.02	-30.09	-30.17	-30.61	-19.02	-11.00
	3	9 kHz to 150 kHz	-65.06	-65.37	-64.83	-64.97	-39.02	-25.81
		150 kHz to 30 MHz	-49.52	-49.66	-49.98	-49.92	-29.02	-20.50
		30 MHz to 727.9 MHz	-32.09	-32.20	-32.13	-31.88	-19.02	-12.86
		746.1 MHz to 1 GHz	-26.06	-27.55	-24.57	-25.05	-19.02	-5.55
		1 GHz to 3 GHz	-25.28	-25.37	-25.44	-25.53	-19.02	-6.26
		3 GHz to 8 GHz	-30.81	-30.64	-30.98	-30.57	-19.02	-11.55

**Table 8-48. Conducted Spurious Emission Summary Data (LTE\_B85\_1C\_10M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 78 of 126	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-64.34	-63.68	-63.77	-63.61	-39.02	-24.59
		150 kHz to 30 MHz	-49.67	-49.59	-49.63	-49.65	-29.02	-20.57
		30 MHz to 727.9 MHz	-23.43	-20.11	-22.50	-20.44	-19.02	-1.09
		746.1 MHz to 1 GHz	-27.28	-25.31	-24.50	-25.75	-19.02	-5.48
		1 GHz to 3 GHz	-25.81	-25.07	-25.86	-26.07	-19.02	-6.05
		3 GHz to 8 GHz	-28.88	-29.16	-28.95	-29.06	-19.02	-9.86
	1	9 kHz to 150 kHz	-63.98	-64.28	-64.26	-64.23	-39.02	-24.96
		150 kHz to 30 MHz	-49.36	-50.42	-50.04	-49.40	-29.02	-20.34
		30 MHz to 727.9 MHz	-20.96	-21.50	-20.27	-21.93	-19.02	-1.25
		746.1 MHz to 1 GHz	-27.18	-23.43	-23.83	-25.19	-19.02	-4.41
		1 GHz to 3 GHz	-24.90	-25.84	-25.29	-24.41	-19.02	-5.39
		3 GHz to 8 GHz	-29.95	-29.97	-29.95	-30.01	-19.02	-10.93
	2	9 kHz to 150 kHz	-63.98	-64.02	-63.45	-63.35	-39.02	-24.33
		150 kHz to 30 MHz	-49.60	-49.82	-49.60	-49.60	-29.02	-20.58
		30 MHz to 727.9 MHz	-21.16	-23.41	-22.21	-21.82	-19.02	-2.14
		746.1 MHz to 1 GHz	-25.35	-24.67	-23.38	-24.71	-19.02	-4.36
		1 GHz to 3 GHz	-25.37	-25.22	-25.46	-25.44	-19.02	-6.20
		3 GHz to 8 GHz	-30.14	-30.45	-29.69	-29.88	-19.02	-10.67
	3	9 kHz to 150 kHz	-64.25	-63.82	-63.91	-63.58	-39.02	-24.56
		150 kHz to 30 MHz	-49.18	-49.27	-49.61	-49.14	-29.02	-20.12
		30 MHz to 727.9 MHz	-20.35	-20.30	-20.11	-22.92	-19.02	-1.09
		746.1 MHz to 1 GHz	-25.51	-24.77	-23.86	-25.69	-19.02	-4.84
		1 GHz to 3 GHz	-25.54	-25.35	-25.69	-25.14	-19.02	-6.12
		3 GHz to 8 GHz	-30.82	-30.80	-30.64	-30.73	-19.02	-11.62
Mid	0	9 kHz to 150 kHz	-64.67	-63.44	-63.28	-63.43	-39.02	-24.26
		150 kHz to 30 MHz	-49.40	-49.57	-49.41	-49.78	-29.02	-20.38
		30 MHz to 727.9 MHz	-23.93	-23.54	-21.86	-21.77	-19.02	-2.75
		746.1 MHz to 1 GHz	-26.54	-26.99	-25.60	-27.22	-19.02	-6.58
		1 GHz to 3 GHz	-25.77	-25.72	-25.37	-25.44	-19.02	-6.35
		3 GHz to 8 GHz	-28.78	-28.80	-28.89	-28.98	-19.02	-9.76
	1	9 kHz to 150 kHz	<b>-64.18</b>	-64.39	-64.03	-64.05	-39.02	-25.01
		150 kHz to 30 MHz	<b>-49.24</b>	-49.77	-49.60	-49.59	-29.02	-20.22
		30 MHz to 727.9 MHz	<b>-20.09</b>	-21.43	-22.28	-21.80	-19.02	<b>-1.07</b>
		746.1 MHz to 1 GHz	<b>-25.42</b>	-24.65	-24.24	-23.59	-19.02	-4.57
		1 GHz to 3 GHz	<b>-25.27</b>	-24.92	-24.72	-24.85	-19.02	-5.70
		3 GHz to 8 GHz	<b>-29.82</b>	-29.65	-30.02	-29.35	-19.02	-10.33
	2	9 kHz to 150 kHz	-63.66	-64.66	-63.41	-63.87	-39.02	-24.39
		150 kHz to 30 MHz	-49.50	-49.52	-49.45	-49.55	-29.02	-20.43
		30 MHz to 727.9 MHz	-23.10	-23.87	-22.70	-21.53	-19.02	-2.51
		746.1 MHz to 1 GHz	-25.17	-24.97	-23.46	-25.60	-19.02	-4.44
		1 GHz to 3 GHz	-25.86	-25.74	-25.53	-25.25	-19.02	-6.23
		3 GHz to 8 GHz	-30.35	-30.00	-30.22	-30.68	-19.02	-10.98



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		Approved by: Technical Manager
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	3	9 kHz to 150 kHz	-63.58	-64.14	-63.74	-64.24	-39.02	-24.56
		150 kHz to 30 MHz	-48.87	-49.06	-48.50	-48.59	-29.02	-19.48
		30 MHz to 727.9 MHz	-20.85	-22.19	-20.87	-20.90	-19.02	-1.83
		746.1 MHz to 1 GHz	-23.80	-24.88	-24.73	-25.03	-19.02	-4.78
		1 GHz to 3 GHz	-24.87	-25.12	-25.11	-25.22	-19.02	-5.85
		3 GHz to 8 GHz	-30.80	-30.98	-30.50	-30.87	-19.02	-11.48
High	0	9 kHz to 150 kHz	-63.67	-63.47	-64.01	-62.99	-39.02	-63.67
		150 kHz to 30 MHz	-49.50	-49.76	-49.84	-49.35	-29.02	-49.50
		30 MHz to 727.9 MHz	-22.08	-24.06	-23.66	-23.94	-19.02	-22.08
		746.1 MHz to 1 GHz	-23.90	-26.10	-24.93	-26.02	-19.02	-23.90
		1 GHz to 3 GHz	-25.29	-24.96	-25.62	-25.60	-19.02	-25.29
		3 GHz to 8 GHz	-29.18	-28.80	-28.70	-28.65	-19.02	-29.18
	1	9 kHz to 150 kHz	-64.08	-64.01	-63.97	-63.65	-39.02	-64.08
		150 kHz to 30 MHz	-49.23	-48.65	-50.13	-49.26	-29.02	-49.23
		30 MHz to 727.9 MHz	-20.31	-23.49	-24.50	-24.12	-19.02	-20.31
		746.1 MHz to 1 GHz	-24.67	-25.29	-23.48	-23.99	-19.02	-24.67
		1 GHz to 3 GHz	-25.01	-24.95	-25.61	-25.05	-19.02	-25.01
		3 GHz to 8 GHz	-29.79	-29.95	-30.11	-30.04	-19.02	-29.79
	2	9 kHz to 150 kHz	-63.63	-63.43	-63.35	-63.29	-39.02	-63.63
		150 kHz to 30 MHz	-49.72	-49.62	-49.72	-49.16	-29.02	-49.72
		30 MHz to 727.9 MHz	-21.88	-22.93	-24.22	-24.42	-19.02	-21.88
		746.1 MHz to 1 GHz	-23.78	-22.35	-23.55	-23.84	-19.02	-23.78
		1 GHz to 3 GHz	-24.97	-25.16	-25.50	-25.61	-19.02	-24.97
		3 GHz to 8 GHz	-29.94	-30.46	-30.56	-30.08	-19.02	-29.94
	3	9 kHz to 150 kHz	-63.66	-63.67	-63.90	-63.55	-39.02	-63.66
		150 kHz to 30 MHz	-48.77	-48.63	-48.82	-48.89	-29.02	-48.77
		30 MHz to 727.9 MHz	-20.08	-21.23	-21.55	-21.47	-19.02	-20.08
		746.1 MHz to 1 GHz	-23.14	-22.99	-24.41	-23.32	-19.02	-23.14
		1 GHz to 3 GHz	-24.77	-24.98	-24.64	-24.93	-19.02	-24.77
		3 GHz to 8 GHz	-30.82	-30.59	-30.05	-31.01	-19.02	-30.82

**Table 8-49. Conducted Spurious Emission Summary Data (LTE\_B85\_1C\_15M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 80 of 126	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-64.74	-63.88	-63.85	-63.84	-39.02	-24.82
		150 kHz to 30 MHz	-54.99	-55.01	-54.74	-54.78	-29.02	-25.72
		30 MHz to 727.9 MHz	-30.06	-30.30	-29.76	-29.15	-19.02	-10.13
		746.1 MHz to 1 GHz	-33.24	-33.12	-32.82	-33.47	-19.02	-13.80
		1 GHz to 3 GHz	-29.65	-29.43	-29.20	-29.07	-19.02	-10.05
		3 GHz to 8 GHz	-27.91	-28.98	-28.30	-28.77	-19.02	-8.89
	1	9 kHz to 150 kHz	-64.42	-64.26	-64.23	-63.68	-39.02	-24.66
		150 kHz to 30 MHz	-55.28	-55.05	-54.78	-55.11	-29.02	-25.76
		30 MHz to 727.9 MHz	-28.70	-28.34	-28.83	-28.54	-19.02	-9.32
		746.1 MHz to 1 GHz	-33.73	-33.22	-33.54	-33.11	-19.02	-14.09
		1 GHz to 3 GHz	-29.05	-29.34	-28.60	-28.08	-19.02	-9.06
		3 GHz to 8 GHz	-29.78	-29.59	-30.25	-29.94	-19.02	-10.57
	2	9 kHz to 150 kHz	-64.14	-64.39	-64.08	-63.96	-39.02	-24.94
		150 kHz to 30 MHz	-54.84	-54.91	-54.54	-54.51	-29.02	-25.49
		30 MHz to 727.9 MHz	-29.57	-28.47	-28.33	-29.01	-19.02	-9.31
		746.1 MHz to 1 GHz	-34.19	-33.53	-33.56	-33.37	-19.02	-14.35
		1 GHz to 3 GHz	-28.99	-29.12	-28.74	-29.31	-19.02	-9.72
		3 GHz to 8 GHz	-29.81	-30.05	-30.31	-30.13	-19.02	-10.79
	3	9 kHz to 150 kHz	-64.10	-63.85	-64.12	-63.74	-39.02	-24.72
		150 kHz to 30 MHz	-54.49	-54.53	-54.62	-54.06	-29.02	-25.04
		30 MHz to 727.9 MHz	-26.14	-28.83	-27.68	-25.78	-19.02	-6.76
		746.1 MHz to 1 GHz	-32.59	-33.54	-33.44	-33.22	-19.02	-13.57
		1 GHz to 3 GHz	-28.94	-28.81	-28.44	-28.96	-19.02	-9.42
		3 GHz to 8 GHz	-29.68	-30.13	-30.64	-30.62	-19.02	-10.66
Mid	0	9 kHz to 150 kHz	-63.97	-64.17	-63.67	-63.68	-39.02	-24.65
		150 kHz to 30 MHz	-54.25	-54.95	-54.96	-54.55	-29.02	-25.23
		30 MHz to 727.9 MHz	-31.89	-31.95	-27.94	-32.00	-19.02	-8.92
		746.1 MHz to 1 GHz	-32.48	-32.40	-31.53	-32.95	-19.02	-12.51
		1 GHz to 3 GHz	-28.70	-29.84	-28.79	-28.58	-19.02	-9.56
		3 GHz to 8 GHz	-28.19	-28.89	-28.54	-28.56	-19.02	-9.17
	1	9 kHz to 150 kHz	-64.41	-64.34	-64.25	-64.56	-39.02	-25.23
		150 kHz to 30 MHz	-55.15	-55.81	-55.78	-55.82	-29.02	-26.13
		30 MHz to 727.9 MHz	-31.48	-31.57	-30.96	-31.65	-19.02	-11.94
		746.1 MHz to 1 GHz	-32.50	-32.80	-32.49	-32.61	-19.02	-13.47
		1 GHz to 3 GHz	-28.79	-28.52	-28.49	-28.54	-19.02	-9.47
		3 GHz to 8 GHz	-29.49	-29.80	-28.99	-29.67	-19.02	-9.97
	2	9 kHz to 150 kHz	-64.30	-63.77	-64.04	-63.96	-39.02	-24.75
		150 kHz to 30 MHz	-54.60	-54.76	-54.60	-54.40	-29.02	-25.38
		30 MHz to 727.9 MHz	-31.71	-31.37	-31.46	-31.35	-19.02	-12.33
		746.1 MHz to 1 GHz	-32.31	-32.02	-32.53	-32.40	-19.02	-13.00
		1 GHz to 3 GHz	-28.85	-28.86	-28.77	-29.03	-19.02	-9.75
		3 GHz to 8 GHz	-30.04	-30.09	-29.36	-29.71	-19.02	-10.34

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		Approved by: Technical Manager
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	3	9 kHz to 150 kHz	-64.45	-63.70	-63.79	-63.46	-39.02	-24.44
		150 kHz to 30 MHz	-54.39	-54.13	-54.27	-54.10	-29.02	-25.08
		30 MHz to 727.9 MHz	-31.59	-31.92	-31.67	-31.75	-19.02	-12.57
		746.1 MHz to 1 GHz	-32.47	-31.88	-32.88	-32.62	-19.02	-12.86
		1 GHz to 3 GHz	-28.64	-27.99	-28.32	-28.44	-19.02	-8.97
		3 GHz to 8 GHz	-30.05	-30.37	-30.38	-30.60	-19.02	-11.03
High	0	9 kHz to 150 kHz	-63.54	-63.87	-64.39	-63.67	-39.02	-24.52
		150 kHz to 30 MHz	-54.09	-54.86	-54.42	-54.94	-29.02	-25.07
		30 MHz to 727.9 MHz	-31.92	-31.75	-31.76	-32.22	-19.02	-12.73
		746.1 MHz to 1 GHz	-27.93	-29.01	-27.24	-25.26	-19.02	-6.24
		1 GHz to 3 GHz	-28.60	-28.47	-28.38	-28.90	-19.02	-9.36
		3 GHz to 8 GHz	-28.52	-28.36	-28.94	-29.20	-19.02	-9.34
	1	9 kHz to 150 kHz	-64.50	-64.55	-64.53	-64.51	-39.02	-25.48
		150 kHz to 30 MHz	-55.71	-56.29	-56.38	-56.26	-29.02	-26.69
		30 MHz to 727.9 MHz	-31.47	-31.80	-31.80	-31.99	-19.02	-12.45
		746.1 MHz to 1 GHz	-27.42	-27.43	-25.61	-28.06	-19.02	-6.59
		1 GHz to 3 GHz	-28.30	-28.85	-28.57	-28.64	-19.02	-9.28
		3 GHz to 8 GHz	-29.73	-29.64	-29.54	-30.23	-19.02	-10.52
	2	9 kHz to 150 kHz	-64.25	-63.69	-63.41	-64.35	-39.02	-24.39
		150 kHz to 30 MHz	-54.56	-54.41	-54.62	-54.62	-29.02	-25.39
		30 MHz to 727.9 MHz	-28.46	-31.30	-31.30	-31.70	-19.02	-9.44
		746.1 MHz to 1 GHz	-26.89	-26.44	-27.05	-27.00	-19.02	-7.42
		1 GHz to 3 GHz	-28.92	-28.36	-29.11	-28.40	-19.02	-9.34
		3 GHz to 8 GHz	-30.16	-30.10	-30.24	-29.83	-19.02	-10.81
	3	9 kHz to 150 kHz	-63.57	-64.37	-64.22	-63.79	-39.02	-24.55
		150 kHz to 30 MHz	-54.04	-54.37	-54.44	-54.27	-29.02	-25.02
		30 MHz to 727.9 MHz	-29.76	-31.98	-31.93	-31.90	-19.02	-10.74
		746.1 MHz to 1 GHz	-26.48	-28.73	-25.85	-28.33	-19.02	-6.83
		1 GHz to 3 GHz	-28.71	-28.65	-27.83	-28.32	-19.02	-8.81
		3 GHz to 8 GHz	-29.73	-30.68	-30.23	-30.61	-19.02	-10.71

**Table 8-50. Conducted Spurious Emission Summary Data (NR\_n85\_1C\_5M)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 82 of 126	





Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-63.98	-63.82	-63.97	-63.72	-39.02	-24.70
		150 kHz to 30 MHz	-51.12	-50.45	-50.58	-50.55	-29.02	-21.43
		30 MHz to 727.9 MHz	-22.85	-24.12	-25.74	-24.04	-19.02	-3.83
		746.1 MHz to 1 GHz	-31.78	-30.95	-31.47	-31.98	-19.02	-11.93
		1 GHz to 3 GHz	-26.44	-26.03	-26.28	-26.11	-19.02	-7.01
		3 GHz to 8 GHz	-29.12	-28.76	-28.66	-28.94	-19.02	-9.64
	1	9 kHz to 150 kHz	-64.65	-63.94	-64.04	-63.53	-39.02	-24.51
		150 kHz to 30 MHz	-51.02	-50.58	-51.02	-51.48	-29.02	-21.56
		30 MHz to 727.9 MHz	-22.14	-23.84	-24.17	-23.28	-19.02	-3.12
		746.1 MHz to 1 GHz	-30.62	-32.11	-31.65	-32.65	-19.02	-11.60
		1 GHz to 3 GHz	-25.45	-25.62	-25.77	-26.66	-19.02	-6.43
		3 GHz to 8 GHz	-30.18	-30.16	-30.20	-29.86	-19.02	-10.84
	2	9 kHz to 150 kHz	-63.71	-63.89	-63.54	-63.61	-39.02	-24.52
		150 kHz to 30 MHz	-50.29	-50.10	-50.39	-50.51	-29.02	-21.08
		30 MHz to 727.9 MHz	-22.26	-23.16	-22.90	-23.06	-19.02	-3.24
		746.1 MHz to 1 GHz	-29.45	-30.66	-31.77	-31.91	-19.02	-10.43
		1 GHz to 3 GHz	-26.17	-25.43	-26.47	-26.18	-19.02	-6.41
		3 GHz to 8 GHz	-30.51	-30.30	-30.56	-30.57	-19.02	-11.28
	3	9 kHz to 150 kHz	-64.30	-64.07	-64.02	-63.41	-39.02	-24.39
		150 kHz to 30 MHz	-50.15	-49.90	-49.82	-49.85	-29.02	-20.80
		30 MHz to 727.9 MHz	-21.99	-22.32	-23.67	-22.24	-19.02	-2.97
		746.1 MHz to 1 GHz	-31.16	-31.13	-30.85	-31.25	-19.02	-11.83
		1 GHz to 3 GHz	-25.94	-25.91	-25.75	-25.65	-19.02	-6.63
		3 GHz to 8 GHz	-30.14	-30.92	-30.85	-30.77	-19.02	-11.12
Mid	0	9 kHz to 150 kHz	-63.81	-63.55	-63.48	-63.82	-39.02	-24.46
		150 kHz to 30 MHz	-50.88	-50.64	-50.72	-50.60	-29.02	-21.58
		30 MHz to 727.9 MHz	-27.92	-28.85	-27.71	-30.07	-19.02	-8.69
		746.1 MHz to 1 GHz	-29.15	-29.89	-30.22	-30.21	-19.02	-10.13
		1 GHz to 3 GHz	-26.33	-26.26	-26.42	-26.46	-19.02	-7.24
		3 GHz to 8 GHz	-28.90	-28.98	-28.37	-29.22	-19.02	-9.35
	1	9 kHz to 150 kHz	-63.34	-64.01	-63.95	-63.84	-39.02	-24.32
		150 kHz to 30 MHz	-52.06	-51.34	-51.18	-51.00	-29.02	-21.98
		30 MHz to 727.9 MHz	-25.93	-28.56	-28.78	-27.70	-19.02	-6.91
		746.1 MHz to 1 GHz	-29.25	-28.95	-28.78	-28.22	-19.02	-9.20
		1 GHz to 3 GHz	-26.05	-25.82	-25.99	-26.30	-19.02	-6.80
		3 GHz to 8 GHz	-30.06	-30.04	-30.17	-29.98	-19.02	-10.96
	2	9 kHz to 150 kHz	-63.55	-63.65	-63.03	-63.42	-39.02	-24.01
		150 kHz to 30 MHz	-50.29	-50.71	-50.53	-50.30	-29.02	-21.27
		30 MHz to 727.9 MHz	-28.88	-28.45	-28.49	-28.82	-19.02	-9.43
		746.1 MHz to 1 GHz	-28.39	-29.21	-28.28	-28.48	-19.02	-9.26
		1 GHz to 3 GHz	-25.93	-26.20	-25.96	-26.00	-19.02	-6.91
		3 GHz to 8 GHz	-30.61	-30.31	-30.60	-30.56	-19.02	-11.29



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<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 83 of 126	

	3	9 kHz to 150 kHz	-63.98	-63.74	-63.27	-63.72	-39.02	-24.25
		150 kHz to 30 MHz	-49.43	-49.65	-49.59	-49.82	-29.02	-20.41
		30 MHz to 727.9 MHz	-25.65	-27.38	-26.67	-29.04	-19.02	-6.63
		746.1 MHz to 1 GHz	-27.22	-28.81	-28.67	-27.97	-19.02	-8.20
		1 GHz to 3 GHz	-25.37	-25.13	-25.28	-25.79	-19.02	-6.11
		3 GHz to 8 GHz	-30.94	-30.90	-30.85	-30.62	-19.02	-11.60
High	0	9 kHz to 150 kHz	-63.49	-63.56	-63.52	-63.60	-39.02	-24.47
		150 kHz to 30 MHz	-50.54	-50.64	-50.32	-50.77	-29.02	-21.30
		30 MHz to 727.9 MHz	-31.81	-32.51	-32.41	-32.61	-19.02	-12.79
		746.1 MHz to 1 GHz	-27.36	-26.87	-28.11	-28.09	-19.02	-7.85
		1 GHz to 3 GHz	-26.22	-26.18	-26.32	-25.97	-19.02	-6.95
		3 GHz to 8 GHz	-29.04	-28.95	-28.76	-29.15	-19.02	-9.74
	1	9 kHz to 150 kHz	-63.87	-63.53	-63.73	-63.62	-39.02	-24.51
		150 kHz to 30 MHz	-51.50	-51.91	-51.59	-52.37	-29.02	-22.48
		30 MHz to 727.9 MHz	-32.35	-32.11	-32.01	-32.27	-19.02	-12.99
		746.1 MHz to 1 GHz	-27.40	-26.53	-26.18	-27.08	-19.02	-7.16
		1 GHz to 3 GHz	-25.46	-26.34	-25.70	-26.16	-19.02	-6.44
		3 GHz to 8 GHz	-30.05	-30.18	-30.06	-30.14	-19.02	-11.03
	2	9 kHz to 150 kHz	-63.46	-63.48	-63.53	-63.55	-39.02	-24.44
		150 kHz to 30 MHz	-50.43	-50.55	-50.31	-50.64	-29.02	-21.29
		30 MHz to 727.9 MHz	-31.86	-31.63	-31.72	-31.39	-19.02	-12.37
		746.1 MHz to 1 GHz	-26.81	-23.66	-25.72	-25.17	-19.02	-4.64
		1 GHz to 3 GHz	-25.61	-25.25	-26.16	-25.56	-19.02	-6.23
		3 GHz to 8 GHz	-30.59	-30.47	-30.61	-30.37	-19.02	-11.35
	3	9 kHz to 150 kHz	-63.21	-63.65	-63.41	-63.25	-39.02	-24.19
		150 kHz to 30 MHz	-49.94	-49.56	-49.45	-49.66	-29.02	-20.43
		30 MHz to 727.9 MHz	-32.03	-31.75	-32.13	-32.02	-19.02	-12.73
		746.1 MHz to 1 GHz	-25.24	-25.42	-26.54	-25.26	-19.02	-6.22
		1 GHz to 3 GHz	-24.92	-25.15	-25.41	-25.47	-19.02	-5.90
		3 GHz to 8 GHz	-30.63	-30.82	-31.01	-30.45	-19.02	-11.43

**Table 8-51. Conducted Spurious Emission Summary Data (NR\_n85\_1C\_10M)**



FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT</b> (Class II Permissive Change)		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 84 of 126	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-62.75	-62.16	-62.73	-62.21	-39.02	-23.14
		150 kHz to 30 MHz	-49.69	-49.41	-49.34	-49.19	-29.02	-20.17
		30 MHz to 727.9 MHz	-23.32	-22.75	-22.75	-22.83	-19.02	-3.73
		746.1 MHz to 1 GHz	-28.80	-26.12	-28.26	-27.18	-19.02	-7.10
		1 GHz to 3 GHz	-25.76	-25.39	-25.06	-25.17	-19.02	-6.04
		3 GHz to 8 GHz	-28.97	-28.84	-28.86	-28.54	-19.02	-9.52
	1	9 kHz to 150 kHz	-62.75	-62.38	-62.88	-62.88	-39.02	-23.36
		150 kHz to 30 MHz	-49.80	-49.03	-49.04	-49.23	-29.02	-20.01
		30 MHz to 727.9 MHz	-24.09	-23.96	-22.09	-20.89	-19.02	-1.87
		746.1 MHz to 1 GHz	-26.34	-28.18	-28.49	-25.66	-19.02	-6.64
		1 GHz to 3 GHz	-24.97	-25.74	-24.24	-24.63	-19.02	-5.22
		3 GHz to 8 GHz	-30.22	-29.20	-29.55	-29.21	-19.02	-10.18
	2	9 kHz to 150 kHz	-62.51	-61.91	-63.26	-62.16	-39.02	-22.89
		150 kHz to 30 MHz	-49.39	-48.93	-48.85	-48.48	-29.02	-19.46
		30 MHz to 727.9 MHz	-22.37	-21.85	-22.07	-21.27	-19.02	-2.25
		746.1 MHz to 1 GHz	-27.70	-24.97	-25.81	-26.73	-19.02	-5.95
		1 GHz to 3 GHz	-25.21	-25.49	-25.58	-24.87	-19.02	-5.85
		3 GHz to 8 GHz	-29.76	-29.93	-29.75	-29.68	-19.02	-10.66
	3	9 kHz to 150 kHz	-62.24	-61.98	-62.98	-62.49	-39.02	-22.96
		150 kHz to 30 MHz	-49.07	-48.59	-48.30	-48.91	-29.02	-19.28
		30 MHz to 727.9 MHz	-22.15	-22.06	-21.65	-23.38	-19.02	-2.63
		746.1 MHz to 1 GHz	-26.10	-25.69	-27.72	-26.42	-19.02	-6.67
		1 GHz to 3 GHz	-25.31	-24.73	-24.42	-25.30	-19.02	-5.40
		3 GHz to 8 GHz	-30.04	-30.61	-30.22	-30.44	-19.02	-11.02
Mid	0	9 kHz to 150 kHz	-62.75	-62.20	-62.99	-63.16	-39.02	-23.18
		150 kHz to 30 MHz	-49.23	-49.09	-48.75	-49.24	-29.02	-19.73
		30 MHz to 727.9 MHz	-26.11	-26.03	-25.31	-24.88	-19.02	-5.86
		746.1 MHz to 1 GHz	-27.02	-27.77	-28.68	-27.97	-19.02	-8.00
		1 GHz to 3 GHz	-25.16	-25.50	-25.03	-25.16	-19.02	-6.01
		3 GHz to 8 GHz	-28.58	-28.27	-28.86	-28.34	-19.02	-9.25
	1	9 kHz to 150 kHz	-63.23	-63.12	-62.90	-63.69	-39.02	-23.88
		150 kHz to 30 MHz	-49.00	-48.98	-48.80	-49.68	-29.02	-19.78
		30 MHz to 727.9 MHz	-21.34	-25.30	-23.64	-25.45	-19.02	-2.32
		746.1 MHz to 1 GHz	-25.89	-24.89	-20.70	-26.06	-19.02	-1.68
		1 GHz to 3 GHz	-25.04	-25.35	-25.38	-25.59	-19.02	-6.02
		3 GHz to 8 GHz	-29.50	-29.39	-29.73	-29.54	-19.02	-10.37
	2	9 kHz to 150 kHz	-62.69	-62.98	-62.85	-63.50	-39.02	-23.67
		150 kHz to 30 MHz	-49.20	-48.81	-48.77	-48.75	-29.02	-19.73
		30 MHz to 727.9 MHz	-23.39	-23.19	-23.03	-24.38	-19.02	-4.01
		746.1 MHz to 1 GHz	-25.07	-25.28	-25.99	-26.22	-19.02	-6.05
		1 GHz to 3 GHz	-24.62	-25.03	-25.15	-25.37	-19.02	-5.60
		3 GHz to 8 GHz	-29.68	-30.00	-30.18	-30.33	-19.02	-10.66

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	3	9 kHz to 150 kHz	-62.56	-62.31	-62.92	-63.03	-39.02	-23.29
		150 kHz to 30 MHz	-48.37	-47.96	-48.31	-48.49	-29.02	-18.94
		30 MHz to 727.9 MHz	-21.84	-22.14	-20.34	-24.37	-19.02	-1.32
		746.1 MHz to 1 GHz	-26.59	-24.85	-26.98	-27.43	-19.02	-5.83
		1 GHz to 3 GHz	-24.86	-24.55	-24.22	-24.74	-19.02	-5.20
		3 GHz to 8 GHz	-30.33	-29.83	-30.10	-30.56	-19.02	-10.81
High	0	9 kHz to 150 kHz	-63.21	-63.35	-62.56	-62.91	-39.02	-23.54
		150 kHz to 30 MHz	-49.38	-49.24	-49.28	-48.94	-29.02	-19.92
		30 MHz to 727.9 MHz	-25.69	-26.39	-26.30	-26.51	-19.02	-6.67
		746.1 MHz to 1 GHz	-25.65	-25.06	-25.71	-26.85	-19.02	-6.04
		1 GHz to 3 GHz	-25.30	-25.27	-25.02	-25.12	-19.02	-6.00
		3 GHz to 8 GHz	-28.63	-28.63	-29.04	-28.62	-19.02	-9.60
	1	9 kHz to 150 kHz	-64.07	-63.65	-63.32	-63.46	-39.02	-24.30
		150 kHz to 30 MHz	-50.28	-49.87	-49.29	-50.07	-29.02	-20.27
		30 MHz to 727.9 MHz	-27.32	-26.24	-24.29	-28.40	-19.02	-5.27
		746.1 MHz to 1 GHz	-22.85	-25.57	-23.50	-22.39	-19.02	-3.37
		1 GHz to 3 GHz	-24.31	-25.34	-25.20	-25.28	-19.02	-5.29
		3 GHz to 8 GHz	-29.66	-29.33	-29.76	-29.75	-19.02	-10.31
	2	9 kHz to 150 kHz	-63.11	-63.40	-63.24	-63.02	-39.02	-24.00
		150 kHz to 30 MHz	-48.90	-48.75	-48.99	-49.03	-29.02	-19.73
		30 MHz to 727.9 MHz	-23.83	-24.55	-24.05	-25.89	-19.02	-4.81
		746.1 MHz to 1 GHz	-24.02	-24.11	-21.38	-21.77	-19.02	-2.36
		1 GHz to 3 GHz	-24.99	-25.16	-25.22	-25.08	-19.02	-5.97
		3 GHz to 8 GHz	-29.93	-30.16	-30.23	-29.77	-19.02	-10.75
	3	9 kHz to 150 kHz	-63.32	-63.53	<b>-62.94</b>	-62.81	-39.02	-23.79
		150 kHz to 30 MHz	-48.34	-47.91	<b>-48.27</b>	-48.04	-29.02	-18.89
		30 MHz to 727.9 MHz	-23.15	-21.40	<b>-26.35</b>	-21.81	-19.02	-2.38
		746.1 MHz to 1 GHz	-25.71	-24.42	<b>-20.11</b>	-25.53	-19.02	<b>-1.09</b>
		1 GHz to 3 GHz	-24.45	-24.37	<b>-24.47</b>	-24.60	-19.02	-5.35
		3 GHz to 8 GHz	-29.78	-30.57	<b>-29.83</b>	-30.15	-19.02	-10.76

**Table 8-52. Conducted Spurious Emission Summary Data (NR\_n85\_1C\_15M)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 86 of 126	



Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Margin (dB)
			QPSK		
Middle	LTE_Band71_2C_5M+5M	9 kHz to 150 kHz	-65.22	-39.02	-26.20
		150 kHz to 30 MHz	-51.94	-29.02	-22.33
		30 MHz to 616.9 MHz	-34.12	-19.02	-14.54
		652.1 MHz to 1 GHz	-32.47	-19.02	-13.45
		1 GHz to 3 GHz	-28.96	-19.02	-9.93
		3 GHz to 8 GHz	-28.95	-19.02	-9.75
	NR_n71_2C_5M+5M	9 kHz to 150 kHz	-64.08	-39.02	-24.80
		150 kHz to 30 MHz	-51.26	-29.02	-22.24
		30 MHz to 616.9 MHz	-34.50	-19.02	-14.04
		652.1 MHz to 1 GHz	-32.81	-19.02	-13.79
		1 GHz to 3 GHz	-28.59	-19.02	-9.57
		3 GHz to 8 GHz	-28.89	-19.02	-9.59
	NR_n71_2C_15M+20M	9 kHz to 150 kHz	-63.60	-39.02	-23.71
		150 kHz to 30 MHz	-51.18	-29.02	-21.93
		30 MHz to 616.9 MHz	-25.63	-19.02	-5.84
		652.1 MHz to 1 GHz	-26.58	-19.02	-6.48
		1 GHz to 3 GHz	-29.16	-19.02	-9.58
		3 GHz to 8 GHz	-28.89	-19.02	-9.42
	LTE_Band85_2C_5M+5M	9 kHz to 150 kHz	-64.45	-39.02	-25.20
		150 kHz to 30 MHz	-50.05	-29.02	-20.20
		30 MHz to 727.9 MHz	-25.99	-19.02	-4.75
		746.1 MHz to 1 GHz	-21.91	-19.02	-2.70
		1 GHz to 3 GHz	-26.29	-19.02	-7.27
		3 GHz to 8 GHz	-28.60	-19.02	-9.58
	LTE_Band85_2C_5M+10M	9 kHz to 150 kHz	<b>-63.06</b>	-39.02	-23.99
		150 kHz to 30 MHz	<b>-49.12</b>	-29.02	-19.86
		30 MHz to 727.9 MHz	<b>-23.82</b>	-19.02	-1.65
		746.1 MHz to 1 GHz	<b>-24.78</b>	-19.02	<b>-1.35</b>
		1 GHz to 3 GHz	<b>-26.04</b>	-19.02	-6.17
		3 GHz to 8 GHz	<b>-28.38</b>	-19.02	-9.36
	NR_n85_2C_5M+5M	9 kHz to 150 kHz	-64.18	-39.02	-24.50
		150 kHz to 30 MHz	-50.01	-29.02	-20.99
		30 MHz to 727.9 MHz	-27.30	-19.02	-5.87
		746.1 MHz to 1 GHz	-26.75	-19.02	-6.35
		1 GHz to 3 GHz	-26.29	-19.02	-7.27
		3 GHz to 8 GHz	-28.23	-19.02	-9.21
	NR_n85_2C_5M+10M	9 kHz to 150 kHz	-62.14	-39.02	-23.10
		150 kHz to 30 MHz	-48.93	-29.02	-19.91
		30 MHz to 727.9 MHz	-21.79	-19.02	-1.62
		746.1 MHz to 1 GHz	-24.35	-19.02	-3.04
		1 GHz to 3 GHz	-25.04	-19.02	-5.90
		3 GHz to 8 GHz	-28.85	-19.02	-9.55

**Table 8-53. Conducted Spurious Emission Summary Data (Multi Carrier)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 87 of 126	



Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Margin (dB)
			QPSK		
Middle	LTE_Band71_2NC_5M+5M	9 kHz to 150 kHz	-65.10	-39.02	-25.52
		150 kHz to 30 MHz	-50.72	-29.02	-21.41
		30 MHz to 616.9 MHz	-26.22	-19.02	-7.20
		652.1 MHz to 1 GHz	-26.54	-19.02	-7.52
		1 GHz to 3 GHz	-28.72	-19.02	-9.57
		3 GHz to 8 GHz	-28.77	-19.02	-9.43
	NR_n71_2NC_5M+5M	9 kHz to 150 kHz	-64.39	-39.02	-24.75
		150 kHz to 30 MHz	-51.20	-29.02	-21.50
		30 MHz to 616.9 MHz	-27.46	-19.02	-7.82
		652.1 MHz to 1 GHz	-27.30	-19.02	-8.28
		1 GHz to 3 GHz	-29.13	-19.02	-9.99
		3 GHz to 8 GHz	-28.99	-19.02	-9.17
	LTE_Band85_2NC_5M+5M	9 kHz to 150 kHz	-64.44	-39.02	-25.27
		150 kHz to 30 MHz	-49.96	-29.02	-19.35
		30 MHz to 727.9 MHz	-21.60	-19.02	-2.58
		746.1 MHz to 1 GHz	-26.35	-19.02	-6.49
		1 GHz to 3 GHz	-26.25	-19.02	-7.23
		3 GHz to 8 GHz	-28.14	-19.02	-9.12
	LTE_Band85_2NC_5M+10M	9 kHz to 150 kHz	-63.27	-39.02	-23.99
		150 kHz to 30 MHz	-50.34	-29.02	-20.98
		30 MHz to 727.9 MHz	-20.59	-19.02	-1.31
		746.1 MHz to 1 GHz	-22.23	-19.02	-3.21
		1 GHz to 3 GHz	-26.58	-19.02	-7.00
		3 GHz to 8 GHz	-28.88	-19.02	-9.86
	NR_n85_2NC_5M+5M	9 kHz to 150 kHz	-63.78	-39.02	-24.27
		150 kHz to 30 MHz	-50.32	-29.02	-21.30
		30 MHz to 727.9 MHz	-24.96	-19.02	-5.75
		746.1 MHz to 1 GHz	-25.67	-19.02	-6.62
		1 GHz to 3 GHz	-25.93	-19.02	-6.91
		3 GHz to 8 GHz	-28.93	-19.02	-9.32
NR_n85_2NC_5M+10M	9 kHz to 150 kHz	<b>-62.23</b>	-39.02	-23.21	
	150 kHz to 30 MHz	<b>-50.35</b>	-29.02	-20.80	
	30 MHz to 727.9 MHz	<b>-22.69</b>	-19.02	<b>-1.16</b>	
	746.1 MHz to 1 GHz	<b>-22.21</b>	-19.02	-2.91	
	1 GHz to 3 GHz	<b>-26.28</b>	-19.02	-6.73	
	3 GHz to 8 GHz	<b>-29.24</b>	-19.02	-10.09	

**Table 8-54. Conducted Spurious Emission Summary Data (Non-Contiguous\_Multi Carrier)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 88 of 126	

Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Margin (dB)
			QPSK		
Middle	n71_1C_5M + n85_1C_10M	9 kHz to 150 kHz	-68.08	-39.02	-29.06
		150 kHz to 30 MHz	-49.20	-29.02	-20.18
		30 MHz to 617 MHz	-24.76	-19.02	-5.74
		652 MHz to 728 MHz	-32.37	-19.02	-13.35
		746 MHz to 1 GHz	-30.36	-19.02	-11.34
		1 GHz to 8 GHz	-25.32	-19.02	-6.30
	n71_2C_15M+20M + n85_2C_5M+10M	9 kHz to 150 kHz	<b>-62.15</b>	-39.02	-23.13
		150 kHz to 30 MHz	<b>-52.81</b>	-29.02	-23.79
		30 MHz to 617 MHz	<b>-26.42</b>	-19.02	-7.40
		652 MHz to 728 MHz	<b>-25.56</b>	-19.02	-6.54
		746 MHz to 1 GHz	<b>-22.76</b>	-19.02	<b>-3.74</b>
		1 GHz to 8 GHz	<b>-25.66</b>	-19.02	-6.64

**Table 8-55. Conducted Spurious Emission Summary Data (n71 + n85\_Dual-Band Operation)**

FCC ID: A3LRF4435D-71A		<b>MEASUREMENT REPORT (Class II Permissive Change)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K22092802-00-R1.A3L	<b>Test Dates:</b> 09/29/2022 - 10/26/2022	<b>EUT Type:</b> RRU(RF4435d)	Page 89 of 126	