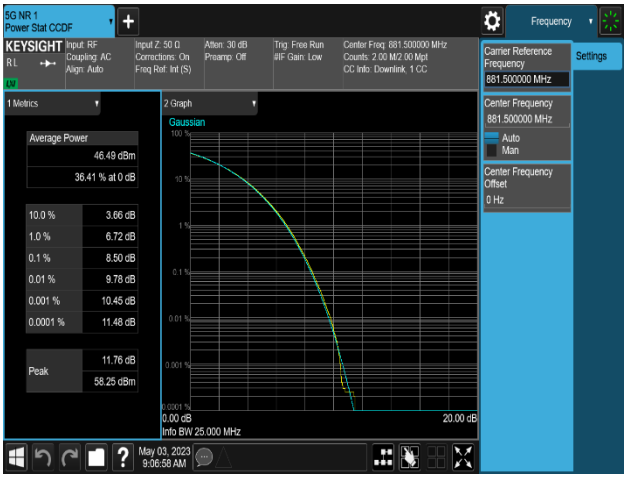
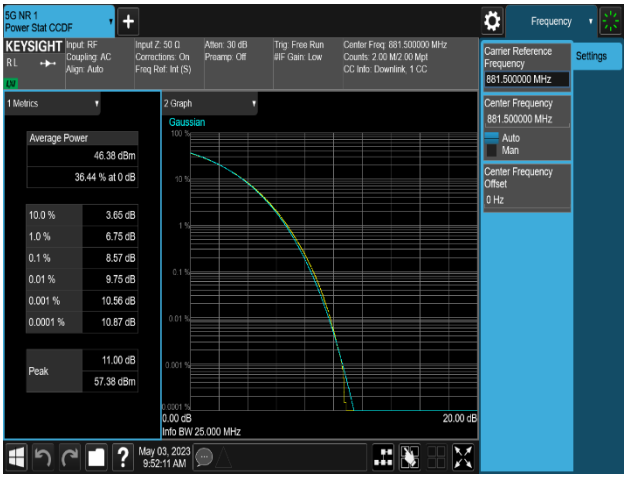
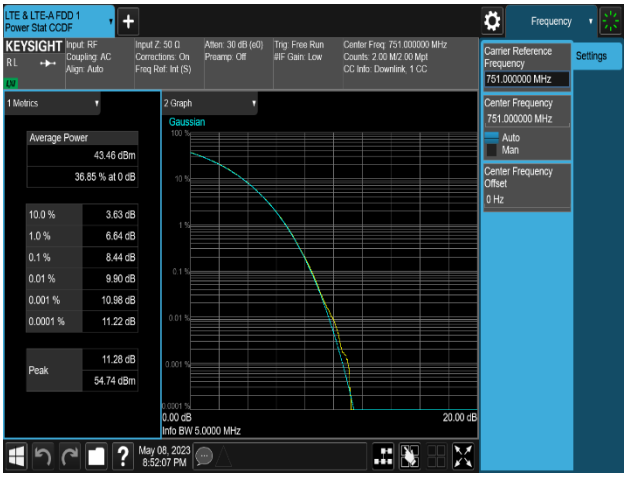


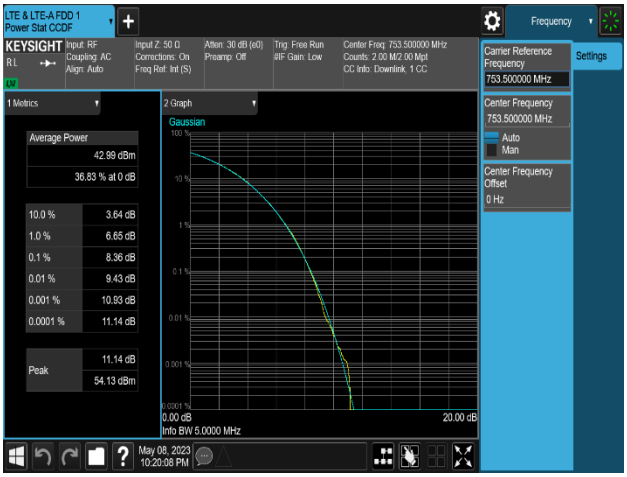
Plot 8-267. Peak To Average Power Ratio Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 0)



Plot 8-268. Peak To Average Power Ratio Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_16QAM - Mid Channel_4T, Port 0)



Plot 8-269. Peak To Average Power Ratio Plot
(LTE B13_1C_5M_QPSK - Mid Channel_4T, Port 0)



Plot 8-270. Peak To Average Power Ratio Plot
(LTE B13_1C_5M_16QAM - High Channel_4T, Port 1)

Plot 8-271. Peak To Average Power Ratio Plot
(LTE B13_1C_10M_QPSK - Mid Channel_4T, Port 0)

Plot 8-272. Peak To Average Power Ratio Plot
(LTE B13_1C_10M_256QAM - Mid Channel_4T, Port 0)

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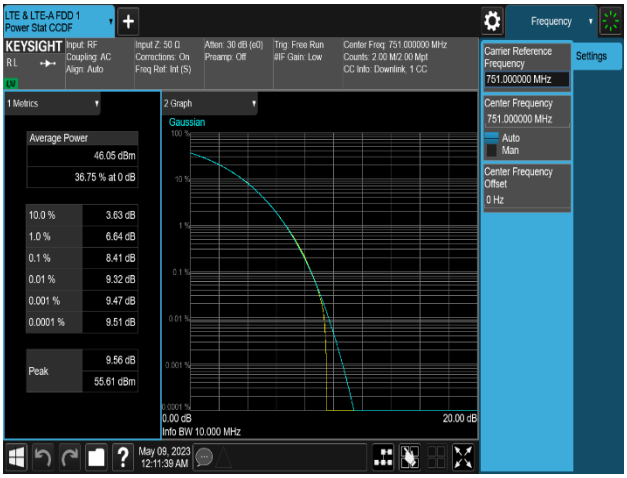
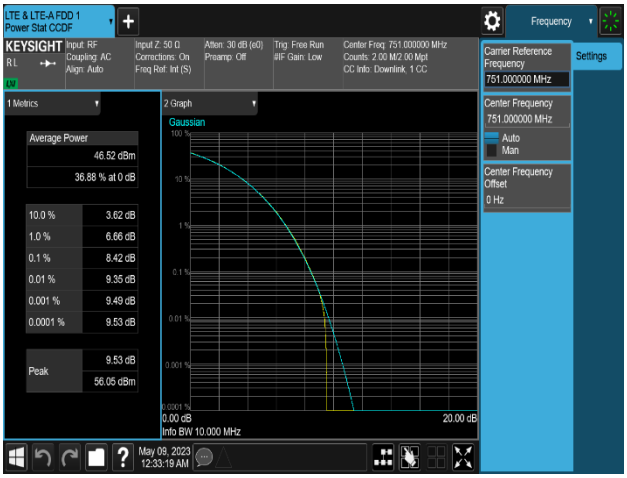


Plot 8-273. Peak To Average Power Ratio Plot
(LTE B13_2C_5M+5M_QPSK - Mid Channel_4T, Port 1)



Plot 8-274. Peak To Average Power Ratio Plot
(LTE B13_2C_5M+5M_16QAM - Mid Channel_4T, Port 0)

Plot 8-275. Peak To Average Power Ratio Plot
(LTE B13_1C_5M+NB-IoT(IB)_QPSK - Low Channel_4T, Port 1)

Plot 8-276. Peak To Average Power Ratio Plot
(LTE B13_1C_10M+NB-IoT(2GB)_QPSK - Mid Channel_4T, Port 1)

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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: Please see test notes below.
4. VBW $\geq$ 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Limit

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

Test Setup

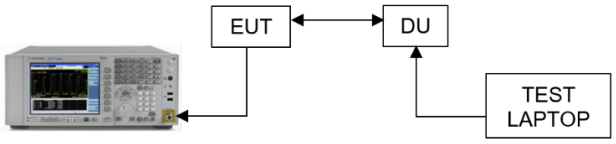

Figure 8-4. Test Instrument & Measurement Setup

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Test Notes

1. Per Part 27, The power of any emission outside the licensee's frequency band(s) of operation is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

2. Per Part 22, In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The 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. Above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz.

3. Detect with a margin of under 1dB to limit, the integration method was performed using the spectrum analyzer's band power functions according to ANSI C63.26-2015 – Section 5.7 and using the method KDB 971168 D01 v03r01 - Section E) 3) ii). 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.

4. The limits were adjusted by a factor of [-10*log (2)] dB to account for the device operation as a 2 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:
   MIMO Factor = 10*log (2) = 3.01 dB

Frequency range	Basic Limit (dBm/MHz)	2Tx MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
Low band edge – 0.1MHz	-13.00	3.01	0	-16.01
High band edge + 0.1MHz	-13.00	3.01	0	-16.01
Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor				

5. The limits were adjusted by a factor of [-10*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*log (4) = 6.02 dB

Frequency range	Basic Limit (dBm/MHz)	4Tx MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
Low band edge – 0.1MHz	-13.00	6.02	0	-19.02
High band edge + 0.1MHz	-13.00	6.02	0	-19.02
Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor				

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-18.57	-21.04	**-17.65**	-18.46	-16.01	-1.64
	1	868 to 869 MHz	-18.28	-18.23	-19.79	-18.57	-16.01	-2.22
High	0	894 to 895 MHz	-19.12	-22.38	-21.75	-19.69	-16.01	-3.11
	1	894 to 895 MHz	-18.56	-21.66	-19.23	**-18.35**	-16.01	-2.34

Table 8-157. Band Edge Emission Summary Data (LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-27.17	-28.78	-28.43	-29.06	-16.01	-11.16
	1	868 to 869 MHz	**-26.50**	-27.17	-26.86	-27.24	-16.01	-10.49
High	0	894 to 895 MHz	-32.23	-30.49	-31.41	-31.86	-16.01	-14.48
	1	894 to 895 MHz	-27.99	-28.04	-27.85	**-27.73**	-16.01	-11.71

Table 8-158. Band Edge Emission Summary Data (LTE B5_1C_10M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-24.88	-25.74	-16.01	-8.87
	1	868 to 869 MHz	**-23.40**	-24.11	-16.01	-7.39
High	0	894 to 895 MHz	-27.38	-27.79	-16.01	-11.37
	1	894 to 895 MHz	**-25.13**	-26.04	-16.01	-9.11

Table 8-159. Band Edge Emission Summary Data (LTE B5_2C_5M+5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-23.85	-16.01	-7.83
	1	868 to 869 MHz	**-22.61**	-16.01	-6.60
High	0	894 to 895 MHz	-25.79	-16.01	-9.78
	1	894 to 895 MHz	**-24.02**	-16.01	-8.01

Table 8-160. Band Edge Emission Summary Data (LTE B5_2NC_5M+5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-24.12	-24.53	-16.01	-8.11
	1	868 to 869 MHz	-23.29	**-23.23**	-16.01	-7.22
High	0	894 to 895 MHz	-27.47	-27.22	-16.01	-11.21
	1	894 to 895 MHz	-25.16	**-24.69**	-16.01	-8.68

Table 8-161. Band Edge Emission Summary Data (LTE B5_3C_5M+10M+10M_2T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-23.92	-26.04	-24.26	-23.77	-16.01	-7.76
	1	868 to 869 MHz	-23.60	-24.05	-24.76	**-22.69**	-16.01	-6.68
High	0	894 to 895 MHz	-25.32	-30.65	-25.59	-24.38	-16.01	-8.37
	1	894 to 895 MHz	-23.49	-27.50	**-22.94**	-23.43	-16.01	-6.93

Table 8-162. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(9:1 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-24.45	-25.79	-25.11	-23.37	-16.01	-7.36
	1	868 to 869 MHz	-23.96	-24.26	-24.35	**-22.75**	-16.01	-6.74
High	0	894 to 895 MHz	-27.06	-30.35	-25.72	-25.29	-16.01	-9.28
	1	894 to 895 MHz	-25.07	-27.44	-22.56	**-22.51**	-16.01	-6.49

Table 8-163. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(8:2 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-26.15	-25.94	-26.50	-23.10	-16.01	-7.09
	1	868 to 869 MHz	-23.75	-24.34	-25.14	**-22.58**	-16.01	-6.57
High	0	894 to 895 MHz	-26.91	-26.75	-26.28	-24.92	-16.01	-8.91
	1	894 to 895 MHz	-25.02	-24.99	-24.16	**-22.94**	-16.01	-6.93

Table 8-164. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(7:3 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-24.55	-25.01	-25.62	**-22.29**	-16.01	-6.28
	1	868 to 869 MHz	-24.74	-24.08	-25.01	-22.41	-16.01	-6.40
High	0	894 to 895 MHz	-26.60	-26.64	-27.54	-25.54	-16.01	-9.53
	1	894 to 895 MHz	-24.69	-25.38	-23.92	**-22.74**	-16.01	-6.73

Table 8-165. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(6:4 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-25.36	-23.37	-25.07	**-22.63**	-16.01	-6.62
	1	868 to 869 MHz	-24.17	-23.33	-24.42	-23.03	-16.01	-7.02
High	0	894 to 895 MHz	-26.77	-26.87	-26.72	-25.73	-16.01	-9.72
	1	894 to 895 MHz	-24.46	-24.15	-24.19	**-23.58**	-16.01	-7.57

Table 8-166. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(5:5 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-25.50	-23.33	-23.90	-23.36	-16.01	-7.32
	1	868 to 869 MHz	-23.93	**-21.66**	-24.17	-22.82	-16.01	-5.65
High	0	894 to 895 MHz	-26.46	-26.91	-23.80	-25.79	-16.01	-7.79
	1	894 to 895 MHz	-24.46	-24.54	**-22.12**	-23.71	-16.01	-6.11

Table 8-167. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(4:6 Ratio)_2T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-25.53	-23.80	-25.14	-23.58	-16.01	-7.57
	1	868 to 869 MHz	-24.13	**-22.19**	-23.49	-23.27	-16.01	-6.18
High	0	894 to 895 MHz	-26.58	-26.82	-23.24	-26.11	-16.01	-7.23
	1	894 to 895 MHz	-24.22	-24.20	**-21.77**	-23.47	-16.01	-5.76

Table 8-168. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(3:7 Ratio) _2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-25.39	-24.50	-24.00	-23.60	-16.01	-7.59
	1	868 to 869 MHz	-24.22	-23.51	-23.56	**-22.76**	-16.01	-6.75
High	0	894 to 895 MHz	-26.56	-26.73	-23.84	-25.75	-16.01	-7.82
	1	894 to 895 MHz	-23.95	-24.61	**-21.93**	-23.50	-16.01	-5.92

Table 8-169. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(2:8 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-27.32	-25.97	-16.01	-9.96
	1	868 to 869 MHz	**-21.81**	-21.95	-16.01	-5.80
High	0	894 to 895 MHz	-23.93	-24.52	-16.01	-7.92
	1	894 to 895 MHz	**-21.86**	-23.03	-16.01	-5.85

Table 8-170. Band Edge Emission Summary Data (DSS B(n)5_2C_10M+10M(9:1 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-21.66	-16.01	-5.65
	1	868 to 869 MHz	**-21.33**	-16.01	-5.32
High	0	894 to 895 MHz	-23.24	-16.01	-7.23
	1	894 to 895 MHz	**-21.80**	-16.01	-5.79

Table 8-171. Band Edge Emission Summary Data (DSS B(n)5_2NC_10M+10M(9:1 Ratio)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-19.70	-21.31	-19.51	-19.04	-16.01	-3.03
	1	868 to 869 MHz	-21.40	**-18.97**	-19.19	-19.33	-16.01	-2.96
High	0	894 to 895 MHz	**-19.81**	-20.66	-22.33	-20.23	-16.01	-3.80
	1	894 to 895 MHz	-20.61	-19.91	-21.19	-22.72	-16.01	-3.90

Table 8-172. Band Edge Emission Summary Data (NR n5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-25.88	**-23.71**	-27.60	-27.55	-16.01	-7.70
	1	868 to 869 MHz	-25.27	-25.54	-26.75	-26.83	-16.01	-9.26
High	0	894 to 895 MHz	-30.77	-31.42	-29.19	-30.34	-16.01	-13.18
	1	894 to 895 MHz	-27.56	-27.97	-26.99	**-26.88**	-16.01	-10.87

Table 8-173. Band Edge Emission Summary Data (NR n5_1C_10M_2T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-21.57	-21.72	-22.28	-21.07	-16.01	-5.06
	1	868 to 869 MHz	**-20.55**	-21.03	-21.46	-20.92	-16.01	-4.54
High	0	894 to 895 MHz	-24.14	-22.45	-24.00	-23.73	-16.01	-6.44
	1	894 to 895 MHz	-23.01	**-21.21**	-22.49	-22.51	-16.01	-5.19

Table 8-174. Band Edge Emission Summary Data (NR n5_1C_15M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-25.91	-25.16	-16.01	-9.15
	1	868 to 869 MHz	**-24.36**	-24.61	-16.01	-7.35
High	0	894 to 895 MHz	-27.78	-27.73	-16.01	-10.43
	1	894 to 895 MHz	-25.21	**-24.92**	-16.01	-8.36

Table 8-175. Band Edge Emission Summary Data (NR n5_2C_5M+5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.19	-16.01	-8.18
	1	868 to 869 MHz	**-22.77**	-16.01	-6.76
High	0	894 to 895 MHz	-26.12	-16.01	-10.11
	1	894 to 895 MHz	**-22.91**	-16.01	-6.90

Table 8-176. Band Edge Emission Summary Data (NR n5_2NC_5M+5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-25.77	-24.91	-16.01	-8.90
	1	868 to 869 MHz	**-23.90**	-23.92	-16.01	-7.89
High	0	894 to 895 MHz	-23.95	-23.07	-16.01	-7.06
	1	894 to 895 MHz	-22.60	**-22.14**	-16.01	-6.13

Table 8-177. Band Edge Emission Summary Data (NR n5_2C_10M+15M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	**-21.92**	-25.89	-16.01	-5.90
	1	868 to 869 MHz	-21.95	-25.23	-16.01	-5.94
High	0	894 to 895 MHz	-28.21	-28.08	-16.01	-12.07
	1	894 to 895 MHz	-25.93	**-24.15**	-16.01	-8.14

Table 8-178. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.73	-16.01	-8.72
	1	868 to 869 MHz	**-22.70**	-16.01	-6.69
High	0	894 to 895 MHz	-25.25	-16.01	-9.24
	1	894 to 895 MHz	**-22.25**	-16.01	-6.24

Table 8-179. Band Edge Emission Summary Data (MSR 2NC_DSS B(n)5_1C_10M+LTE B5_1C_5M_2T)

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CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.50	-24.33	-16.01	-8.32
	1	868 to 869 MHz	**-23.49**	-23.82	-16.01	-7.48
High	0	894 to 895 MHz	-27.58	-24.16	-16.01	-8.15
	1	894 to 895 MHz	-24.59	**-24.14**	-16.01	-8.13

Table 8-180. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-24.60	-24.33	-16.01	-8.32
	1	868 to 869 MHz	**-23.78**	-24.08	-16.01	-7.77
High	0	894 to 895 MHz	-27.33	-27.89	-16.01	-11.31
	1	894 to 895 MHz	**-24.78**	-25.19	-16.01	-8.77

Table 8-181. Band Edge Emission Summary Data (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.33	-16.01	-8.31
	1	868 to 869 MHz	**-22.16**	-16.01	-6.15
High	0	894 to 895 MHz	-25.71	-16.01	-9.70
	1	894 to 895 MHz	**-22.96**	-16.01	-6.95

Table 8-182. Band Edge Emission Summary Data (MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.15	-26.31	-16.01	-10.14
	1	868 to 869 MHz	-23.80	**-23.31**	-16.01	-7.30
High	0	894 to 895 MHz	-26.83	-27.33	-16.01	-10.82
	1	894 to 895 MHz	**-24.55**	-24.75	-16.01	-8.54

Table 8-183. Band Edge Emission Summary Data (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-24.35	-26.78	-16.01	-8.34
	1	868 to 869 MHz	**-23.24**	-24.76	-16.01	-7.22
High	0	894 to 895 MHz	-28.32	-27.78	-16.01	-11.77
	1	894 to 895 MHz	**-24.18**	-26.23	-16.01	-8.17

Table 8-184. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.62	-16.01	-8.61
	1	868 to 869 MHz	**-24.41**	-16.01	-8.40
High	0	894 to 895 MHz	-26.01	-16.01	-10.00
	1	894 to 895 MHz	**-23.89**	-16.01	-7.88

Table 8-185. Band Edge Emission Summary Data (MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_2T)

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CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.00	-23.79	-16.01	-7.78
	1	868 to 869 MHz	**-21.56**	-22.12	-16.01	-5.55
High	0	894 to 895 MHz	-25.41	-24.12	-16.01	-8.11
	1	894 to 895 MHz	**-22.76**	-22.79	-16.01	-6.75

Table 8-186. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-27.09	-27.46	-16.01	-11.07
	1	868 to 869 MHz	**-24.00**	-24.71	-16.01	-7.99
High	0	894 to 895 MHz	-26.61	-25.39	-16.01	-9.38
	1	894 to 895 MHz	-25.29	**-24.01**	-16.01	-8.00

Table 8-187. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.96	-16.01	-8.95
	1	868 to 869 MHz	**-22.42**	-16.01	-6.41
High	0	894 to 895 MHz	-24.63	-16.01	-8.62
	1	894 to 895 MHz	**-23.82**	-16.01	-7.81

Table 8-188. Band Edge Emission Summary Data (MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-23.80	-24.78	-16.01	-7.79
	1	868 to 869 MHz	**-22.01**	-23.31	-16.01	-6.00
High	0	894 to 895 MHz	-25.02	-26.29	-16.01	-9.01
	1	894 to 895 MHz	**-23.20**	-24.16	-16.01	-7.19

Table 8-189. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_2T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	745 to 746 MHz	**-22.25**	-23.72	-22.43	-22.34	-16.01	-6.24
	1	745 to 746 MHz	-23.44	-23.14	-24.02	-23.11	-16.01	-7.10
High	0	756 to 757 MHz	-23.61	-22.84	-22.93	-22.68	-16.01	-6.67
	1	756 to 757 MHz	-21.42	-22.37	**-21.19**	-22.12	-16.01	-5.18

Table 8-190. Band Edge Emission Summary Data (LTE B13_1C_5M_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	745 to 746 MHz	-29.98	-29.96	-30.04	**-29.28**	-16.01	-13.27
	1	745 to 746 MHz	-30.60	-30.50	-29.67	-29.99	-16.01	-13.66
High	0	756 to 757 MHz	-29.74	-29.74	-29.93	-29.76	-16.01	-13.73
	1	756 to 757 MHz	-29.49	-29.29	-28.56	**-28.45**	-16.01	-12.44

Table 8-191. Band Edge Emission Summary Data (LTE B13_1C_10M_2T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	745 to 746 MHz	**-22.71**	-24.93	-16.01	-6.70
	1	745 to 746 MHz	-23.31	-23.66	-16.01	-7.30
High	0	756 to 757 MHz	-22.60	-22.90	-16.01	-6.59
	1	756 to 757 MHz	-23.64	**-22.53**	-16.01	-6.52

Table 8-192. Band Edge Emission Summary Data (LTE B13_2C_5M+5M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745 to 746 MHz	-24.56	-16.01	-8.55
	1	745 to 746 MHz	**-23.31**	-16.01	-7.30
High	0	756 to 757 MHz	-21.91	-16.01	-5.90
	1	756 to 757 MHz	**-21.70**	-16.01	-5.69

Table 8-193. Band Edge Emission Summary Data (LTE B13_1C_5M+NB-IoT(IB)_2T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK					
			LTE10M+NB-IoT (2GB)	LTE10M+NB-IoT (1GB+1IB)	LTE10M+NB-IoT (1IB+1GB)	LTE10M+NB-IoT (2IB)		
Low	0	745 to 746 MHz	**-25.97**	-26.84	-30.41	-29.46	-16.01	-9.96
	1	745 to 746 MHz	-26.49	-26.81	-29.84	-30.10	-16.01	-10.48
High	0	756 to 757 MHz	**-26.22**	-29.33	-26.39	-28.99	-16.01	-10.21
	1	756 to 757 MHz	-26.38	-29.37	-26.87	-29.12	-16.01	-10.37

Table 8-194. Band Edge Emission Summary Data (LTE B13_1C_10M+NB-IoT_2T)

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CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745.9 to 746 MHz	**-26.84**	**-16.01**	**-10.83**
	1	745.9 to 746 MHz	-26.87	-16.01	-10.86
	0	868 to 869 MHz	-35.89	-16.01	-19.88
	1	868 to 869 MHz	-33.20	-16.01	-17.19
High	0	756 to 756.1 MHz	**-26.74**	**-16.01**	**-10.73**
	1	756 to 756.1 MHz	-26.74	-16.01	-10.73
	0	894 to 895 MHz	-33.62	-16.01	-17.61
	1	894 to 895 MHz	-28.67	-16.01	-12.66

Table 8-195. Band Edge Emission Summary Data (Multi-Band_LTE B13_1C_10M+B5_1C_10M_2T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745.9 to 746 MHz	**-22.66**	-16.01	-6.65
	1	745.9 to 746 MHz	-23.35	-16.01	-7.34
	0	868 to 869 MHz	-24.64	-16.01	-8.63
	1	868 to 869 MHz	-23.64	-16.01	-7.63
High	0	756 to 756.1 MHz	**-21.86**	-16.01	-5.85
	1	756 to 756.1 MHz	-23.51	-16.01	-7.50
	0	894 to 895 MHz	-25.43	-16.01	-9.42
	1	894 to 895 MHz	-25.04	-16.01	-9.03

Table 8-196. Band Edge Emission Summary Data (Multi-Band_LTE B13_2C_5M+5M+DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_2T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-27.89	-27.89	-27.59	-28.03	-19.02	-8.57
	1	868 to 869 MHz	-27.92	-27.70	**-27.06**	-28.26	-19.02	-8.04
	2	868 to 869 MHz	-29.50	-28.50	-28.70	-28.69	-19.02	-9.48
	3	868 to 869 MHz	-29.41	-28.74	-28.84	-29.41	-19.02	-9.72
High	0	894 to 895 MHz	-28.91	-29.63	-28.38	-28.93	-19.02	-9.36
	1	894 to 895 MHz	-29.61	-29.54	-28.83	**-27.96**	-19.02	-8.94
	2	894 to 895 MHz	-30.54	-30.94	-29.52	-29.33	-19.02	-10.31
	3	894 to 895 MHz	-29.79	-30.21	-29.47	-29.35	-19.02	-10.33

Table 8-197. Band Edge Emission Summary Data (LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-30.08	-29.91	-31.01	-31.35	-19.02	-10.89
	1	868 to 869 MHz	-29.79	**-28.07**	-29.27	-29.63	-19.02	-9.05
	2	868 to 869 MHz	-29.63	-28.93	-29.57	-29.36	-19.02	-9.91
	3	868 to 869 MHz	-31.16	-30.04	-30.68	-31.20	-19.02	-11.02
High	0	894 to 895 MHz	-30.74	-29.36	-31.36	-31.06	-19.02	-10.34
	1	894 to 895 MHz	-31.11	-30.27	-31.16	-30.52	-19.02	-11.25
	2	894 to 895 MHz	-29.97	-29.31	-29.97	**-29.24**	-19.02	-10.22
	3	894 to 895 MHz	-30.75	-29.88	-30.20	-30.74	-19.02	-10.86

Table 8-198. Band Edge Emission Summary Data (LTE B5_1C_10M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.77	-27.27	-19.02	-7.19
	1	868 to 869 MHz	**-26.54**	-27.09	-19.02	-6.21
	2	868 to 869 MHz	-25.97	-26.65	-19.02	-6.95
	3	868 to 869 MHz	-26.99	-27.17	-19.02	-7.97
High	0	894 to 895 MHz	-28.00	-26.95	-19.02	-7.93
	1	894 to 895 MHz	**-25.12**	-27.64	-19.02	-6.10
	2	894 to 895 MHz	-26.75	-27.17	-19.02	-7.73
	3	894 to 895 MHz	-27.45	-27.08	-19.02	-8.06

Table 8-199. Band Edge Emission Summary Data (LTE B5_2C_5M+5M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	**-24.12**	-19.02	-5.10
	1	868 to 869 MHz	-24.55	-19.02	-5.53
	2	868 to 869 MHz	-26.02	-19.02	-7.00
	3	868 to 869 MHz	-26.13	-19.02	-7.11
High	0	894 to 895 MHz	-26.76	-19.02	-7.74
	1	894 to 895 MHz	-26.52	-19.02	-7.50
	2	894 to 895 MHz	-26.25	-19.02	-7.23
	3	894 to 895 MHz	**-26.21**	-19.02	-7.19

Table 8-200. Band Edge Emission Summary Data (LTE B5_2NC_5M+5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-25.75	-25.84	-19.02	-6.73
	1	868 to 869 MHz	**-25.30**	-25.58	-19.02	-6.28
	2	868 to 869 MHz	-25.59	-25.63	-19.02	-6.57
	3	868 to 869 MHz	-26.57	-25.76	-19.02	-6.74
High	0	894 to 895 MHz	-29.44	-28.97	-19.02	-9.95
	1	894 to 895 MHz	-28.17	-28.11	-19.02	-9.09
	2	894 to 895 MHz	-27.00	**-26.69**	-19.02	-7.67
	3	894 to 895 MHz	-27.25	-27.28	-19.02	-8.23

Table 8-201. Band Edge Emission Summary Data (LTE B5_3C_5M+10M+10M_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-29.90	-30.92	-31.25	-28.05	-19.02	-9.03
	1	868 to 869 MHz	-29.65	-29.22	-29.16	-27.55	-19.02	-8.53
	2	868 to 869 MHz	-28.40	-29.09	-29.54	**-27.54**	-19.02	-8.52
	3	868 to 869 MHz	-30.13	-29.99	-30.89	-28.06	-19.02	-9.04
High	0	894 to 895 MHz	-29.36	-26.96	-30.92	-29.23	-19.02	-7.94
	1	894 to 895 MHz	-29.39	**-25.77**	-31.07	-29.15	-19.02	-6.75
	2	894 to 895 MHz	-29.76	-27.92	-29.14	-28.89	-19.02	-8.90
	3	894 to 895 MHz	-29.61	-27.96	-30.32	-29.45	-19.02	-8.94

Table 8-202. Band Edge Emission Summary Data (DSS B(n)5)_1C_10M(9:1 Ratio_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-27.53	-28.49	-28.77	-27.93	-19.02	-8.51
	1	868 to 869 MHz	-27.38	-27.74	-28.72	-28.70	-19.02	-8.36
	2	868 to 869 MHz	**-26.63**	-27.32	-27.43	-27.49	-19.02	-7.61
	3	868 to 869 MHz	-27.99	-27.97	-28.88	-28.42	-19.02	-8.95
High	0	894 to 895 MHz	-28.42	-28.36	-27.27	-29.10	-19.02	-8.25
	1	894 to 895 MHz	-27.85	-28.66	-27.57	**-25.95**	-19.02	-6.93
	2	894 to 895 MHz	-29.19	-29.44	-27.44	-28.52	-19.02	-8.42
	3	894 to 895 MHz	-28.84	-29.34	-28.35	-29.38	-19.02	-9.33

Table 8-203. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(8:2 Ratio) _4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-26.71	-27.49	-29.05	-27.96	-19.02	-7.69
	1	868 to 869 MHz	-27.39	-28.29	-29.01	-27.77	-19.02	-8.37
	2	868 to 869 MHz	-27.11	**-26.49**	-27.10	-27.00	-19.02	-7.47
	3	868 to 869 MHz	-27.36	-27.59	-29.22	-28.52	-19.02	-8.34
High	0	894 to 895 MHz	-27.81	-28.68	-28.84	**-26.96**	-19.02	-7.94
	1	894 to 895 MHz	-28.03	-28.86	-28.65	-27.36	-19.02	-8.34
	2	894 to 895 MHz	-29.11	-29.44	-29.35	-28.95	-19.02	-9.93
	3	894 to 895 MHz	-28.86	-30.28	-29.72	-28.39	-19.02	-9.37

Table 8-204. Band Edge Emission Summary Data (DSS B(n)5_1C_10M(4:6 Ratio)_4T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-28.12	-28.61	-28.08	-27.21	-19.02	-8.19
	1	868 to 869 MHz	-27.69	-27.89	-28.22	**-25.72**	-19.02	-6.70
	2	868 to 869 MHz	-29.39	-29.50	-29.23	-27.57	-19.02	-8.55
	3	868 to 869 MHz	-29.19	-28.83	-28.48	-28.93	-19.02	-9.46
High	0	894 to 895 MHz	-29.23	-28.91	-28.86	-27.90	-19.02	-8.88
	1	894 to 895 MHz	-29.64	-28.27	-28.41	**-28.03**	-19.02	-9.01
	2	894 to 895 MHz	-28.48	-28.53	-29.39	-28.57	-19.02	-9.46
	3	894 to 895 MHz	-29.47	-29.00	-29.04	-28.71	-19.02	-9.69

Table 8-205. Band Edge Emission Summary Data (NR n5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-30.27	-30.11	-29.58	-29.45	-19.02	-10.43
	1	868 to 869 MHz	-29.36	-29.40	-29.42	**-27.89**	-19.02	-8.87
	2	868 to 869 MHz	-27.92	-28.74	-28.15	-28.34	-19.02	-8.90
	3	868 to 869 MHz	-28.85	-29.93	-29.91	-29.91	-19.02	-9.83
High	0	894 to 895 MHz	-30.27	-31.16	-30.64	-30.33	-19.02	-11.25
	1	894 to 895 MHz	-30.53	-31.10	-31.09	-30.37	-19.02	-11.35
	2	894 to 895 MHz	**-28.83**	-30.03	-28.88	-28.91	-19.02	-9.81
	3	894 to 895 MHz	-29.70	-30.87	-30.28	-29.59	-19.02	-10.57

Table 8-206. Band Edge Emission Summary Data (NR n5_1C_10M_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	868 to 869 MHz	-22.70	-22.44	-22.88	-22.76	-19.02	-3.42
	1	868 to 869 MHz	-22.88	-22.93	-23.04	-23.13	-19.02	-3.86
	2	868 to 869 MHz	**-22.41**	-22.80	-22.75	-22.80	-19.02	-3.39
	3	868 to 869 MHz	-22.49	-22.86	-23.02	-23.01	-19.02	-3.47
High	0	894 to 895 MHz	-24.46	**-22.84**	-24.69	-24.53	-19.02	-3.82
	1	894 to 895 MHz	-24.48	-23.32	-24.43	-25.11	-19.02	-4.30
	2	894 to 895 MHz	-23.35	-23.01	-24.07	-24.30	-19.02	-3.99
	3	894 to 895 MHz	-24.03	-22.55	-24.53	-24.15	-19.02	-3.53

Table 8-207. Band Edge Emission Summary Data (NR n5_1C_15M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-27.06	-27.68	-19.02	-8.04
	1	868 to 869 MHz	-26.78	-27.32	-19.02	-7.76
	2	868 to 869 MHz	**-26.72**	-26.94	-19.02	-7.70
	3	868 to 869 MHz	-27.41	-27.64	-19.02	-8.39
High	0	894 to 895 MHz	-27.96	-27.99	-19.02	-8.94
	1	894 to 895 MHz	-28.05	-27.71	-19.02	-8.69
	2	894 to 895 MHz	**-27.21**	-27.29	-19.02	-8.19
	3	894 to 895 MHz	-27.92	-27.43	-19.02	-8.41

Table 8-208. Band Edge Emission Summary Data (NR n5_2C_5M+5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-24.60	-19.02	-5.58
	1	868 to 869 MHz	**-24.28**	-19.02	-5.26
	2	868 to 869 MHz	-25.80	-19.02	-6.78
	3	868 to 869 MHz	-25.55	-19.02	-6.53
High	0	894 to 895 MHz	-26.41	-19.02	-7.39
	1	894 to 895 MHz	-26.06	-19.02	-7.04
	2	894 to 895 MHz	**-26.03**	-19.02	-7.01
	3	894 to 895 MHz	-26.74	-19.02	-7.72

Table 8-209. Band Edge Emission Summary Data (NR n5_2NC_5M+5M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.80	-26.79	-19.02	-7.77
	1	868 to 869 MHz	-26.58	**-25.70**	-19.02	-6.68
	2	868 to 869 MHz	-26.07	-26.04	-19.02	-7.02
	3	868 to 869 MHz	-27.03	-26.97	-19.02	-7.95
High	0	894 to 895 MHz	-25.24	-24.37	-19.02	-5.35
	1	894 to 895 MHz	-24.99	-24.42	-19.02	-5.40
	2	894 to 895 MHz	-24.12	**-24.01**	-19.02	-4.99
	3	894 to 895 MHz	-24.47	-24.48	-19.02	-5.45

Table 8-210. Band Edge Emission Summary Data (NR n5_2C_10M+15M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-28.55	-28.82	-19.02	-9.53
	1	868 to 869 MHz	-27.52	-28.52	-19.02	-8.50
	2	868 to 869 MHz	-27.11	**-26.14**	-19.02	-7.12
	3	868 to 869 MHz	-28.45	-27.34	-19.02	-8.32
High	0	894 to 895 MHz	-27.17	-28.80	-19.02	-8.15
	1	894 to 895 MHz	-27.23	-28.75	-19.02	-8.21
	2	894 to 895 MHz	-27.41	**-26.60**	-19.02	-7.58
	3	894 to 895 MHz	-27.49	-26.89	-19.02	-7.87

Table 8-211. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	**-27.16**	-19.02	-8.14
	1	868 to 869 MHz	-27.29	-19.02	-8.26
	2	868 to 869 MHz	-27.22	-19.02	-8.20
	3	868 to 869 MHz	-29.10	-19.02	-10.07
High	0	894 to 895 MHz	-28.62	-19.02	-9.60
	1	894 to 895 MHz	-27.93	-19.02	-8.91
	2	894 to 895 MHz	**-27.76**	-19.02	-8.74
	3	894 to 895 MHz	-27.83	-19.02	-8.81

Table 8-212. Band Edge Emission Summary Data (MSR 2NC_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-27.12	-26.05	-19.02	-7.03
	1	868 to 869 MHz	-26.98	**-25.99**	-19.02	-6.97
	2	868 to 869 MHz	-26.65	-26.07	-19.02	-7.05
	3	868 to 869 MHz	-27.27	-27.16	-19.02	-8.14
High	0	894 to 895 MHz	-28.06	-27.96	-19.02	-8.94
	1	894 to 895 MHz	-28.18	-27.48	-19.02	-8.46
	2	894 to 895 MHz	-26.02	-26.44	-19.02	-7.00
	3	894 to 895 MHz	**-25.98**	-26.06	-19.02	-6.96

Table 8-213. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.53	-27.88	-19.02	-7.51
	1	868 to 869 MHz	-26.67	-26.76	-19.02	-7.65
	2	868 to 869 MHz	**-26.15**	-26.38	-19.02	-7.13
	3	868 to 869 MHz	-26.68	-27.32	-19.02	-7.66
High	0	894 to 895 MHz	-28.14	-28.57	-19.02	-9.12
	1	894 to 895 MHz	-27.71	-28.11	-19.02	-8.69
	2	894 to 895 MHz	-27.13	**-27.04**	-19.02	-8.02
	3	894 to 895 MHz	-27.08	-27.77	-19.02	-8.06

Table 8-214. Band Edge Emission Summary Data (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-25.49	-19.02	-6.47
	1	868 to 869 MHz	**-24.75**	-19.02	-5.73
	2	868 to 869 MHz	-25.42	-19.02	-6.40
	3	868 to 869 MHz	-25.43	-19.02	-6.41
High	0	894 to 895 MHz	-27.23	-19.02	-8.21
	1	894 to 895 MHz	-26.73	-19.02	-7.71
	2	894 to 895 MHz	-26.19	-19.02	-7.17
	3	894 to 895 MHz	**-26.16**	-19.02	-7.14

Table 8-215. Band Edge Emission Summary Data (MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.57	-27.42	-19.02	-7.55
	1	868 to 869 MHz	-26.36	-26.52	-19.02	-7.34
	2	868 to 869 MHz	**-25.78**	-26.48	-19.02	-6.76
	3	868 to 869 MHz	-26.88	-26.86	-19.02	-7.84
High	0	894 to 895 MHz	-27.24	-27.92	-19.02	-8.22
	1	894 to 895 MHz	-27.67	-27.59	-19.02	-8.57
	2	894 to 895 MHz	**-25.92**	-26.14	-19.02	-6.90
	3	894 to 895 MHz	-27.08	-26.11	-19.02	-7.09

Table 8-216. Band Edge Emission Summary Data (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-29.32	-29.64	-19.02	-10.30
	1	868 to 869 MHz	-28.92	-29.20	-19.02	-9.90
	2	868 to 869 MHz	**-27.01**	-27.31	-19.02	-7.99
	3	868 to 869 MHz	-28.57	-28.10	-19.02	-9.08
High	0	894 to 895 MHz	-25.56	-27.93	-19.02	-6.54
	1	894 to 895 MHz	-25.88	-27.75	-19.02	-6.86
	2	894 to 895 MHz	**-25.27**	-25.89	-19.02	-6.25
	3	894 to 895 MHz	-27.10	-26.53	-19.02	-7.51

Table 8-217. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-28.06	-19.02	-9.04
	1	868 to 869 MHz	**-27.15**	-19.02	-8.13
	2	868 to 869 MHz	-27.25	-19.02	-8.23
	3	868 to 869 MHz	-28.68	-19.02	-9.66
High	0	894 to 895 MHz	-28.17	-19.02	-9.15
	1	894 to 895 MHz	-26.92	-19.02	-7.90
	2	894 to 895 MHz	**-26.33**	-19.02	-7.31
	3	894 to 895 MHz	-26.69	-19.02	-7.67

Table 8-218. Band Edge Emission Summary Data (MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.86	-26.93	-19.02	-7.84
	1	868 to 869 MHz	-26.81	**-26.04**	-19.02	-7.02
	2	868 to 869 MHz	-26.22	-26.35	-19.02	-7.20
	3	868 to 869 MHz	-27.46	-27.05	-19.02	-8.03
High	0	894 to 895 MHz	-24.74	-24.41	-19.02	-5.39
	1	894 to 895 MHz	-24.82	**-24.01**	-19.02	-4.99
	2	894 to 895 MHz	-23.59	-23.78	-19.02	-4.57
	3	894 to 895 MHz	-24.01	-24.04	-19.02	-4.99

Table 8-219. Band Edge Emission Summary Data (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-28.30	-28.37	-19.02	-9.28
	1	868 to 869 MHz	-27.80	-28.14	-19.02	-8.78
	2	868 to 869 MHz	-26.98	**-26.57**	-19.02	-7.55
	3	868 to 869 MHz	-28.26	-27.66	-19.02	-8.64
High	0	894 to 895 MHz	-28.32	-28.29	-19.02	-9.27
	1	894 to 895 MHz	-28.47	-28.62	-19.02	-9.45
	2	894 to 895 MHz	-26.31	**-26.01**	-19.02	-6.99
	3	894 to 895 MHz	-26.87	-27.13	-19.02	-7.85

Table 8-220. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	868 to 869 MHz	-27.25	-19.02	-8.23
	1	868 to 869 MHz	**-26.67**	-19.02	-7.65
	2	868 to 869 MHz	-26.99	-19.02	-7.97
	3	868 to 869 MHz	-28.24	-19.02	-9.22
High	0	894 to 895 MHz	-28.15	-19.02	-9.13
	1	894 to 895 MHz	-27.24	-19.02	-8.22
	2	894 to 895 MHz	**-26.18**	-19.02	-7.16
	3	894 to 895 MHz	-27.03	-19.02	-8.01

Table 8-221. Band Edge Emission Summary Data (MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	868 to 869 MHz	-26.82	-27.93	-19.02	-7.80
	1	868 to 869 MHz	-27.13	-27.12	-19.02	-8.10
	2	868 to 869 MHz	-26.73	**-26.47**	-19.02	-7.45
	3	868 to 869 MHz	-27.27	-27.81	-19.02	-8.25
High	0	894 to 895 MHz	-28.37	-28.88	-19.02	-9.35
	1	894 to 895 MHz	-27.33	-27.98	-19.02	-8.31
	2	894 to 895 MHz	-26.39	**-26.28**	-19.02	-7.26
	3	894 to 895 MHz	-26.47	-26.50	-19.02	-7.45

Table 8-222. Band Edge Emission Summary Data (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_4T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	745 to 746 MHz	-24.58	-24.13	-24.85	-24.14	-19.02	-5.11
	1	745 to 746 MHz	-25.65	**-23.59**	-25.22	-25.94	-19.02	-4.57
	2	745 to 746 MHz	-25.60	-25.55	-25.37	-26.49	-19.02	-6.35
	3	745 to 746 MHz	-24.66	-24.84	-26.27	-24.95	-19.02	-5.64
High	0	756 to 757 MHz	-23.80	-25.60	-24.82	-25.40	-19.02	-4.78
	1	756 to 757 MHz	-23.91	-24.18	-23.71	-25.27	-19.02	-4.69
	2	756 to 757 MHz	**-22.55**	-25.46	-23.11	-23.20	-19.02	-3.53
	3	756 to 757 MHz	-23.68	-25.22	-23.56	-23.73	-19.02	-4.54

Table 8-223. Band Edge Emission Summary Data (LTE B13_1C_5M_4T)

CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	745 to 746 MHz	-34.66	-33.53	-33.37	-33.89	-19.02	-14.35
	1	745 to 746 MHz	-33.38	-34.34	-34.17	-33.50	-19.02	-14.36
	2	745 to 746 MHz	-33.68	**-33.00**	-33.45	-33.85	-19.02	-13.98
	3	745 to 746 MHz	-33.47	-33.52	-33.06	-34.23	-19.02	-14.04
High	0	756 to 757 MHz	-32.32	-32.40	-33.05	-32.28	-19.02	-13.26
	1	756 to 757 MHz	-32.05	-31.92	-32.99	**-30.82**	-19.02	-11.80
	2	756 to 757 MHz	-32.73	-31.43	-31.78	-33.49	-19.02	-12.41
	3	756 to 757 MHz	-31.76	-32.21	-32.11	-33.30	-19.02	-12.74

Table 8-224. Band Edge Emission Summary Data (LTE B13_1C_10M_4T)

CH	Port	Measured Range	Max. Value (dBm)		Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM		
Low	0	745 to 746 MHz	-24.82	-26.41	-19.02	-5.80
	1	745 to 746 MHz	**-23.69**	-24.38	-19.02	-4.67
	2	745 to 746 MHz	-26.42	-24.24	-19.02	-5.22
	3	745 to 746 MHz	-24.75	-23.84	-19.02	-4.82
High	0	756 to 757 MHz	-24.48	-26.20	-19.02	-5.46
	1	756 to 757 MHz	**-23.88**	-25.74	-19.02	-4.86
	2	756 to 757 MHz	-25.07	-24.82	-19.02	-5.80
	3	756 to 757 MHz	-24.32	-26.66	-19.02	-5.30

Table 8-225. Band Edge Emission Summary Data (LTE B13_2C_5M+5M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745 to 746 MHz	-24.01	-19.02	-4.99
	1	745 to 746 MHz	-25.07	-19.02	-6.05
	2	745 to 746 MHz	-24.34	-19.02	-5.32
	3	745 to 746 MHz	**-23.44**	-19.02	-4.42
High	0	756 to 757 MHz	-23.89	-19.02	-4.87
	1	756 to 757 MHz	-24.42	-19.02	-5.40
	2	756 to 757 MHz	-24.54	-19.02	-5.52
	3	756 to 757 MHz	**-23.17**	-19.02	-4.15

Table 8-226. Band Edge Emission Summary Data (LTE B13_1C_5M+NB-IoT(1IB)_4T)

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CH	Port	Measured Range	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK					
			LTE10M+NB-IoT (2GB)	LTE10M+NB-IoT (1GB+1IB)	LTE10M+NB-IoT (1IB+1GB)	LTE10M+NB-IoT (2IB)		
Low	0	745 to 746 MHz	-28.94	-28.67	-32.94	-31.64	-19.02	-9.65
	1	745 to 746 MHz	-28.96	-28.86	-32.32	-31.81	-19.02	-9.84
	2	745 to 746 MHz	-28.64	-28.94	-32.65	-32.11	-19.02	-9.62
	3	745 to 746 MHz	**-27.96**	-28.18	-31.32	-31.63	-19.02	-8.94
High	0	756 to 757 MHz	-28.11	-30.96	-28.18	-30.58	-19.02	-9.09
	1	756 to 757 MHz	-28.70	-31.57	-28.19	-30.15	-19.02	-9.17
	2	756 to 757 MHz	-28.49	-31.61	-28.46	-31.32	-19.02	-9.44
	3	756 to 757 MHz	**-27.67**	-30.72	-28.16	-30.46	-19.02	-8.65

Table 8-227. Band Edge Emission Summary Data (LTE B13_1C_10M+NB-IoT_4T)

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CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745.9 to 746 MHz	-28.61	-19.02	-9.59
	1	745.9 to 746 MHz	-29.14	-19.02	-10.12
	2	745.9 to 746 MHz	-28.17	-19.02	-9.15
	3	745.9 to 746 MHz	**-27.47**	-19.02	-8.45
	0	868 to 869 MHz	-33.19	-19.02	-14.17
	1	868 to 869 MHz	-33.05	-19.02	-14.03
	2	868 to 869 MHz	-33.06	-19.02	-14.04
	3	868 to 869 MHz	-33.36	-19.02	-14.34
High	0	756 to 756.1 MHz	-28.83	-19.02	-9.81
	1	756 to 756.1 MHz	-28.20	-19.02	-9.18
	2	756 to 756.1 MHz	-28.38	-19.02	-9.36
	3	756 to 756.1 MHz	**-28.15**	-19.02	-9.13
	0	894 to 895 MHz	-32.62	-19.02	-13.60
	1	894 to 895 MHz	-30.10	-19.02	-11.08
	2	894 to 895 MHz	-29.20	-19.02	-10.18
	3	894 to 895 MHz	-30.53	-19.02	-11.51

Table 8-228. Band Edge Emission Summary Data (Multi-Band_LTE B13_1C_10M+B5_1C_10M_4T)

CH	Port	Measured Range	Max. Value (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Low	0	745.9 to 746 MHz	-25.88	-19.02	-6.86
	1	745.9 to 746 MHz	-25.88	-19.02	-6.86
	2	745.9 to 746 MHz	-25.43	-19.02	-6.41
	3	745.9 to 746 MHz	**-25.06**	-19.02	-6.04
	0	868 to 869 MHz	-27.42	-19.02	-8.40
	1	868 to 869 MHz	-26.91	-19.02	-7.89
	2	868 to 869 MHz	-27.32	-19.02	-8.30
	3	868 to 869 MHz	-27.05	-19.02	-8.03
High	0	756 to 756.1 MHz	**-24.13**	-19.02	-5.11
	1	756 to 756.1 MHz	-24.50	-19.02	-5.48
	2	756 to 756.1 MHz	-24.49	-19.02	-5.47
	3	756 to 756.1 MHz	-24.70	-19.02	-5.68
	0	894 to 895 MHz	-29.07	-19.02	-10.05
	1	894 to 895 MHz	-28.04	-19.02	-9.02
	2	894 to 895 MHz	-26.84	-19.02	-7.82
	3	894 to 895 MHz	-26.70	-19.02	-7.68

Table 8-229. Band Edge Emission Summary Data (Multi-Band_LTE B13_2C_5M+5M+DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_4T)

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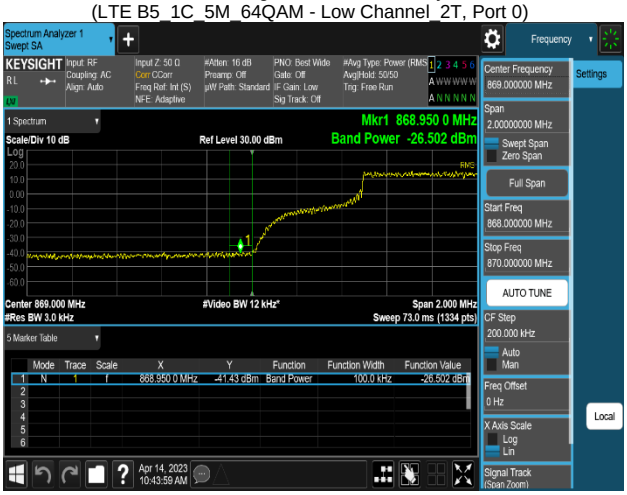
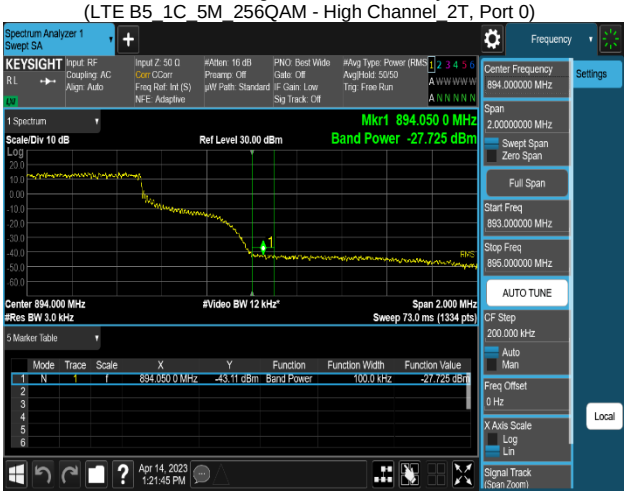
Plot 8-277. Band Edge Emission Summary Data Plot
(LTE B5_1C_5M_64QAM - Low Channel_2T, Port 0)

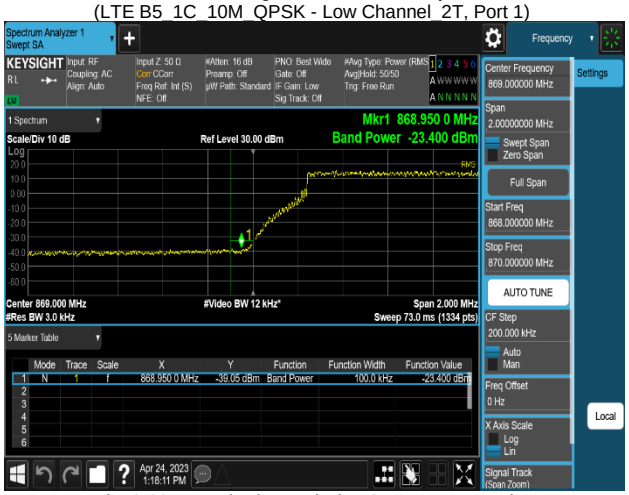
Plot 8-278. Band Edge Emission Summary Data Plot
(LTE B5_1C_5M_256QAM - High Channel_2T, Port 0)



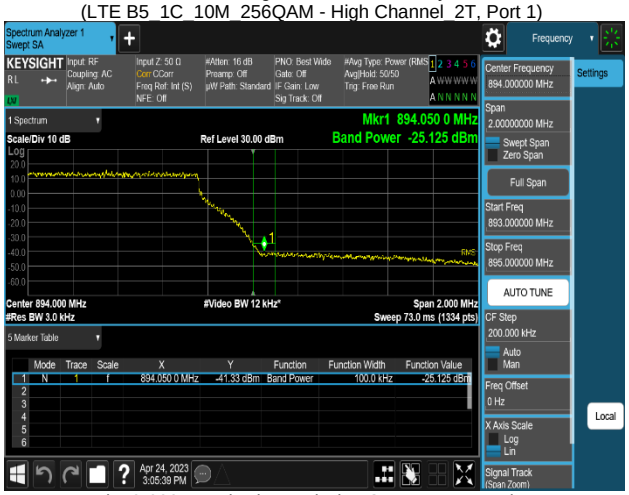
Plot 8-279. Band Edge Emission Summary Data Plot
(LTE B5_1C_10M_QPSK - Low Channel_2T, Port 1)



Plot 8-280. Band Edge Emission Summary Data Plot
(LTE B5_1C_10M_256QAM - High Channel_2T, Port 1)



Plot 8-281. Band Edge Emission Summary Data Plot
(LTE B5_2C_5M+5M_QPSK - Low Channel_2T, Port 1)



Plot 8-282. Band Edge Emission Summary Data Plot
(LTE B5_2C_5M+5M_QPSK - High Channel_2T, Port 1)

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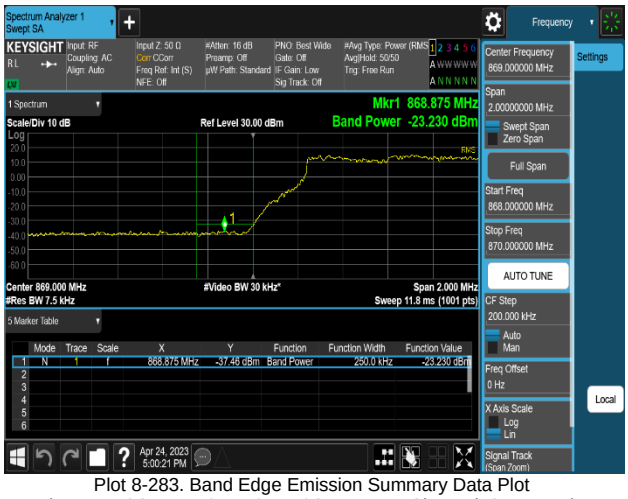
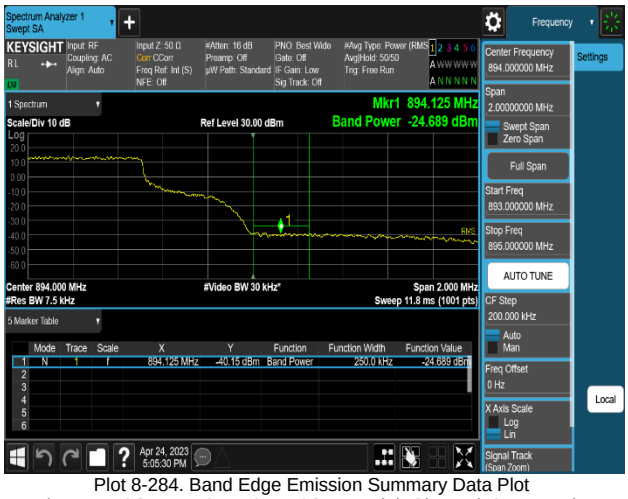
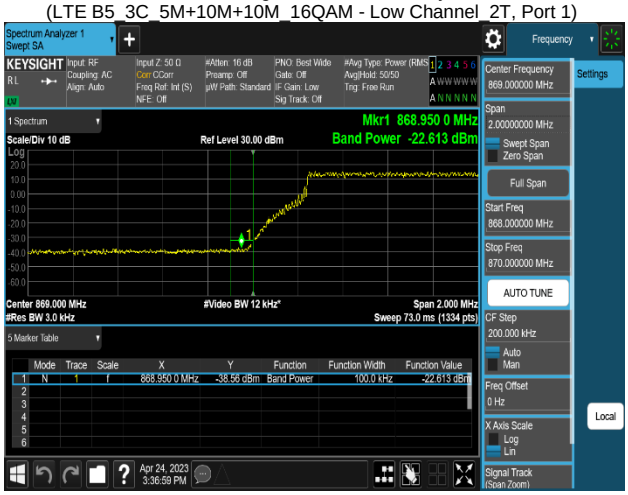


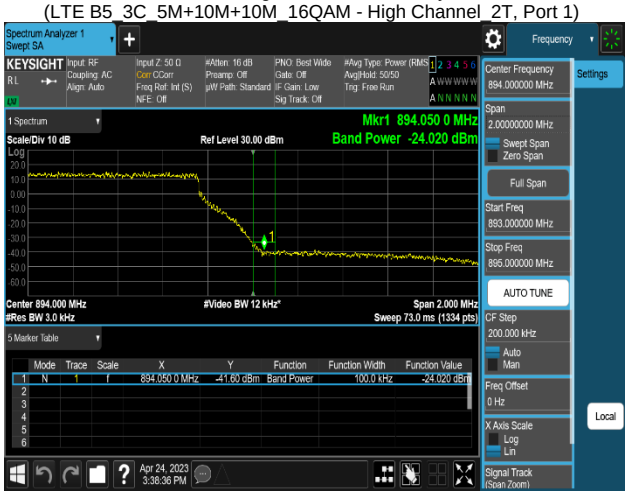
Plot 8-283. Band Edge Emission Summary Data Plot
(LTE B5_3C_5M+10M+10M_16QAM - Low Channel_2T, Port 1)



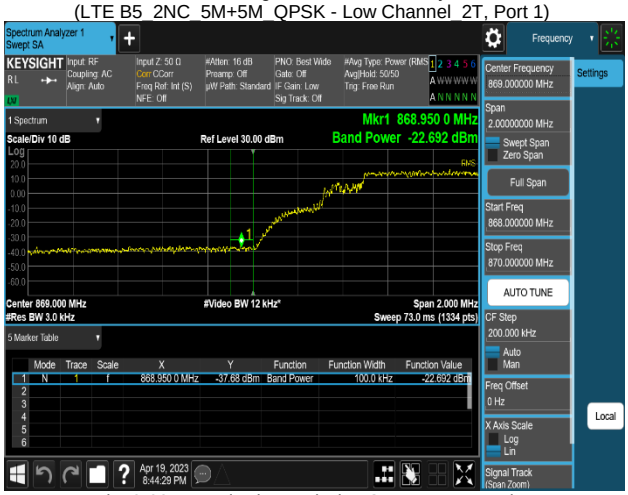
Plot 8-284. Band Edge Emission Summary Data Plot
(LTE B5_3C_5M+10M+10M_16QAM - High Channel_2T, Port 1)



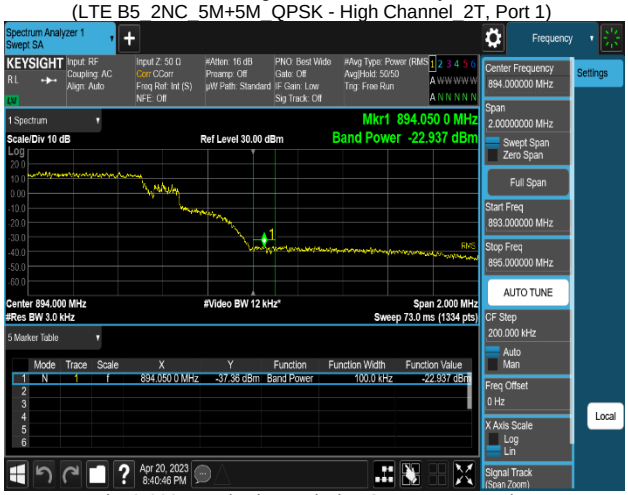
Plot 8-285. Band Edge Emission Summary Data Plot
(LTE B5_2NC_5M+5M_QPSK - Low Channel_2T, Port 1)



Plot 8-286. Band Edge Emission Summary Data Plot
(LTE B5_2NC_5M+5M_QPSK - High Channel_2T, Port 1)



Plot 8-287. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(9:1 Ratio)_256QAM - Low Channel_2T, Port 1)



Plot 8-288. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(9:1 Ratio)_64QAM - High Channel_2T, Port 1)

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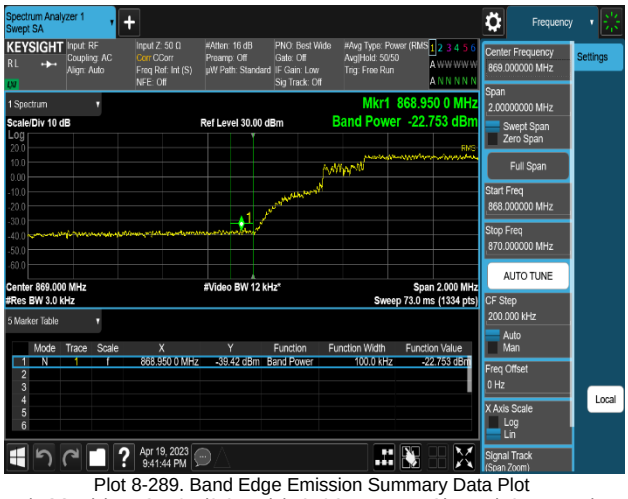
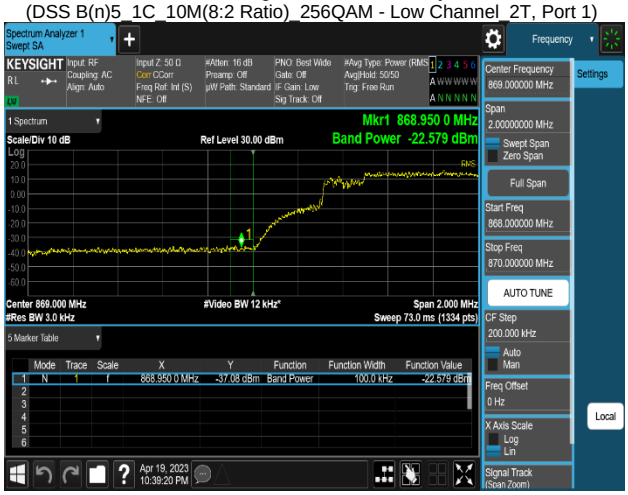
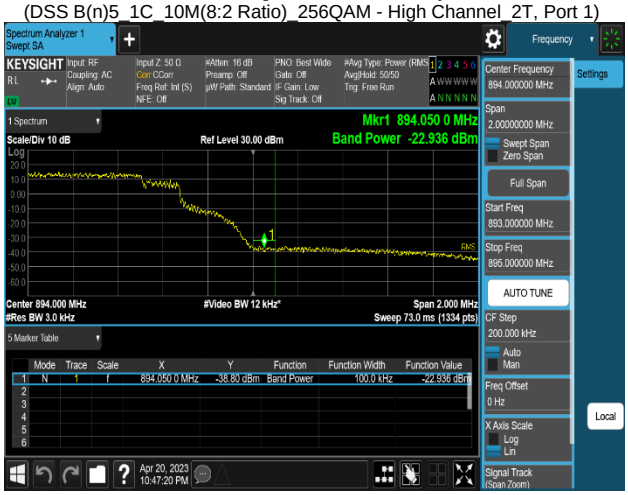


Plot 8-289. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(8:2 Ratio)_256QAM - Low Channel_2T, Port 1)

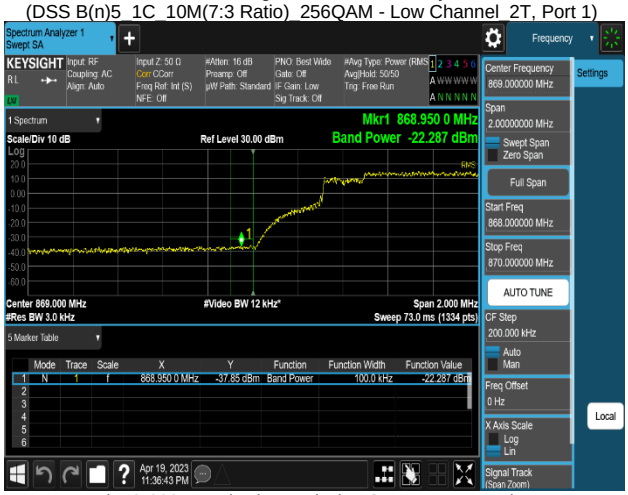
Plot 8-290. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(8:2 Ratio)_256QAM - High Channel_2T, Port 1)



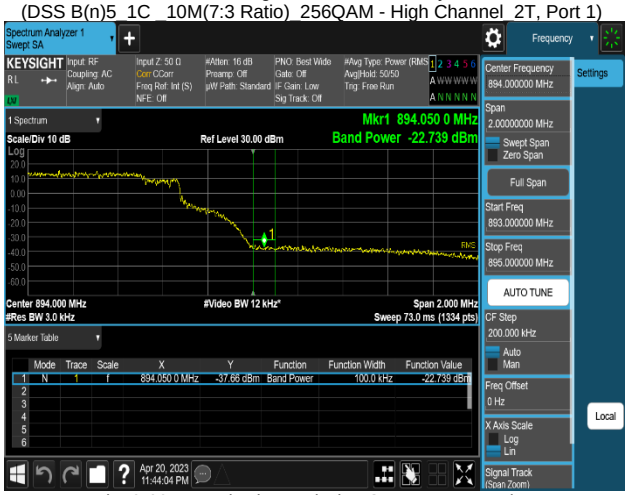
Plot 8-291. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(7:3 Ratio)_256QAM - Low Channel_2T, Port 1)



Plot 8-292. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(7:3 Ratio)_256QAM - High Channel_2T, Port 1)



Plot 8-293. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C _10M(6:4 Ratio)_256QAM - Low Channel_2T, Port 0)



Plot 8-294. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(6:4 Ratio)_256QAM - High Channel_2T, Port 1)

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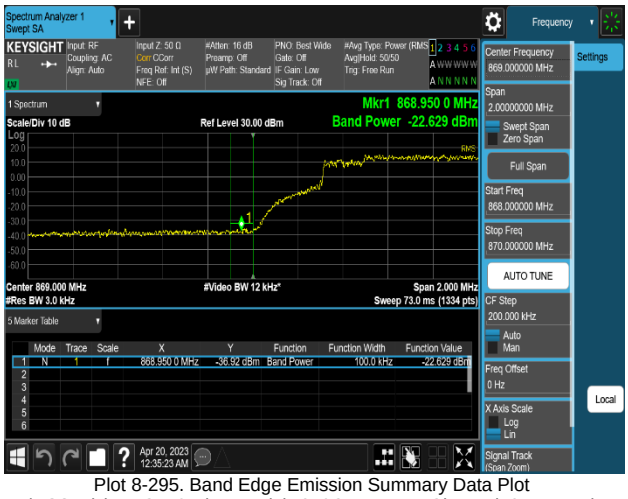
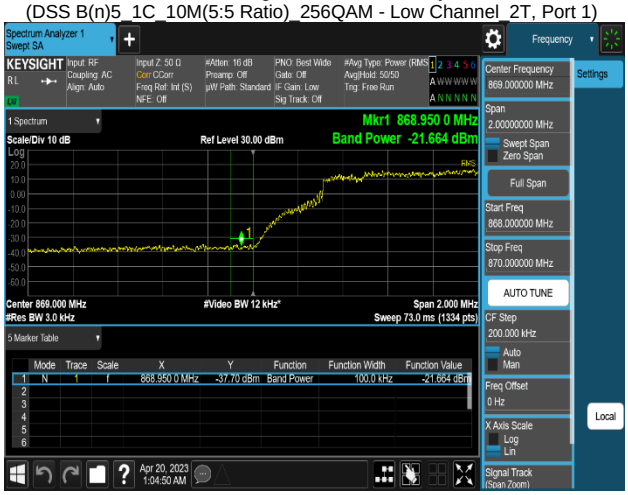
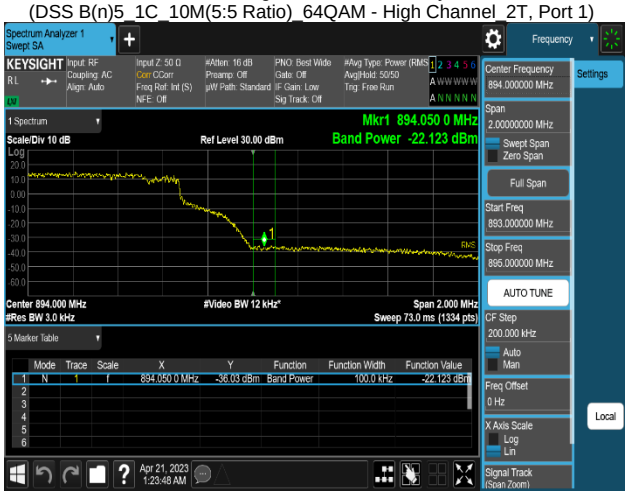


Plot 8-295. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(5:5 Ratio)_256QAM - Low Channel_2T, Port 1)

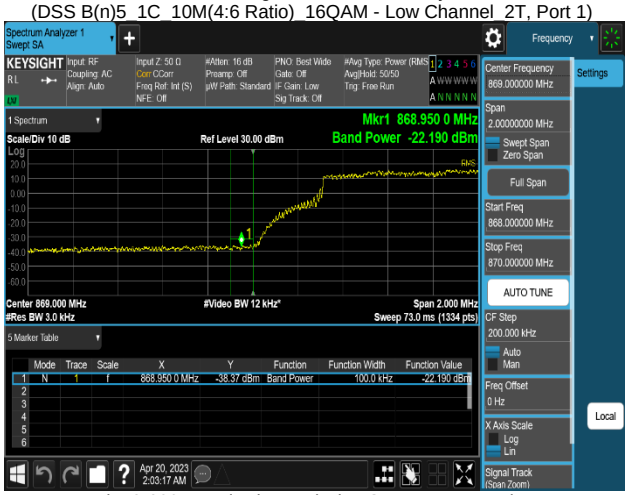
Plot 8-296. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(5:5 Ratio)_64QAM - High Channel_2T, Port 1)



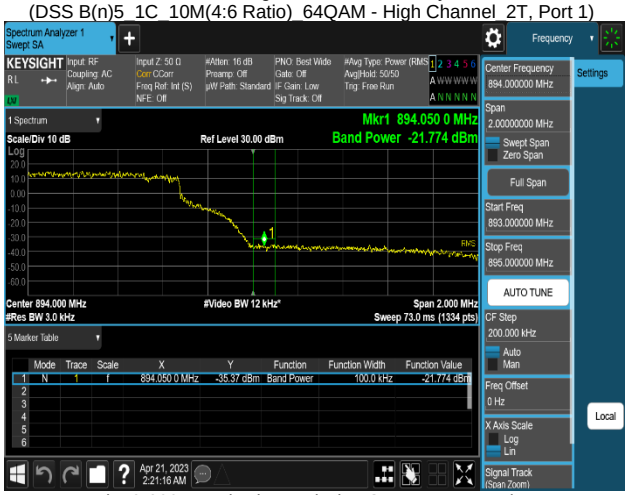
Plot 8-297. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(4:6 Ratio)_16QAM - Low Channel_2T, Port 1)



Plot 8-298. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(4:6 Ratio)_64QAM - High Channel_2T, Port 1)



Plot 8-299. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(3:7 Ratio)_16QAM - Low Channel_2T, Port 1)



Plot 8-300. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(3:7 Ratio)_64QAM - High Channel_2T, Port 1)

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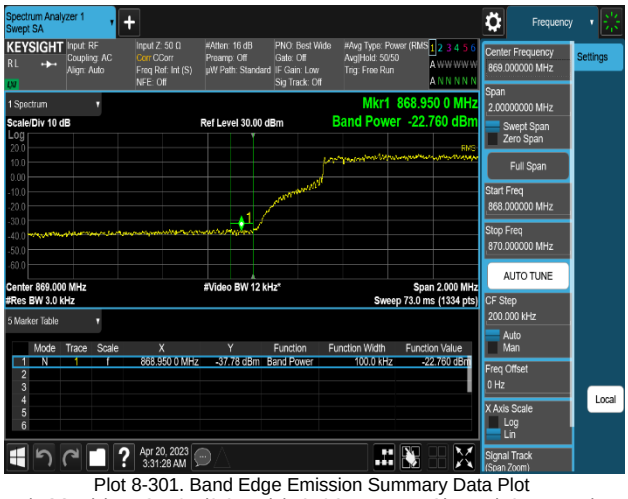
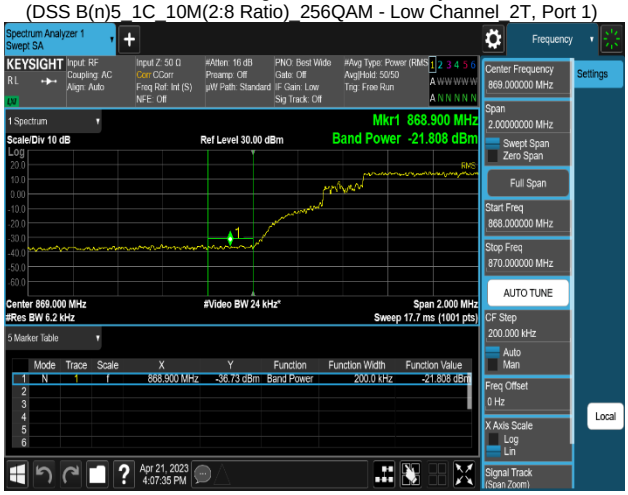
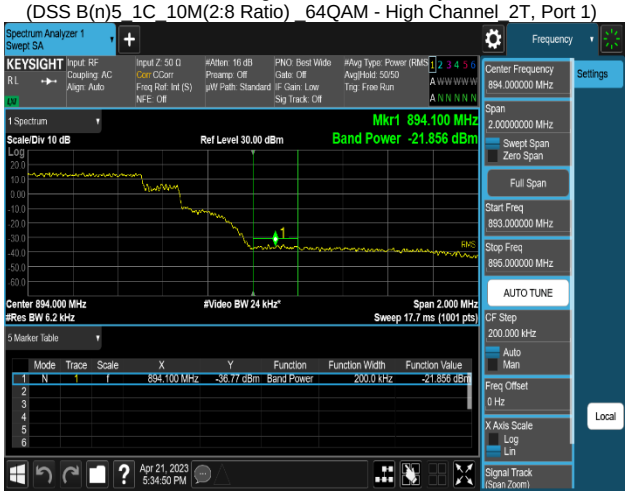


Plot 8-301. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(2:8 Ratio)_256QAM - Low Channel_2T, Port 1)

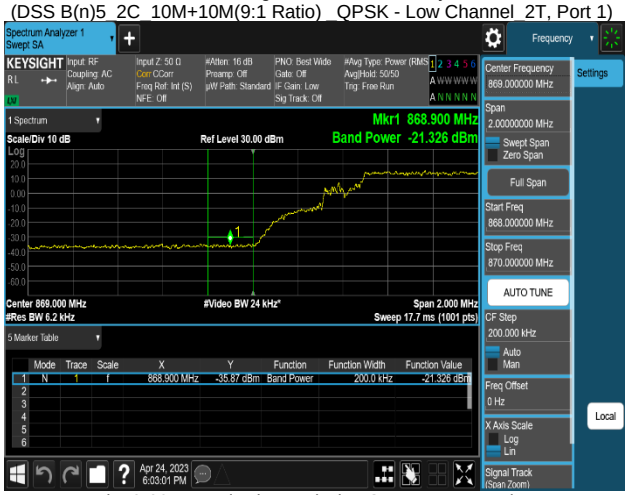
Plot 8-302. Band Edge Emission Summary Data Plot
(DSS B(n)5_1C_10M(2:8 Ratio) _64QAM - High Channel_2T, Port 1)



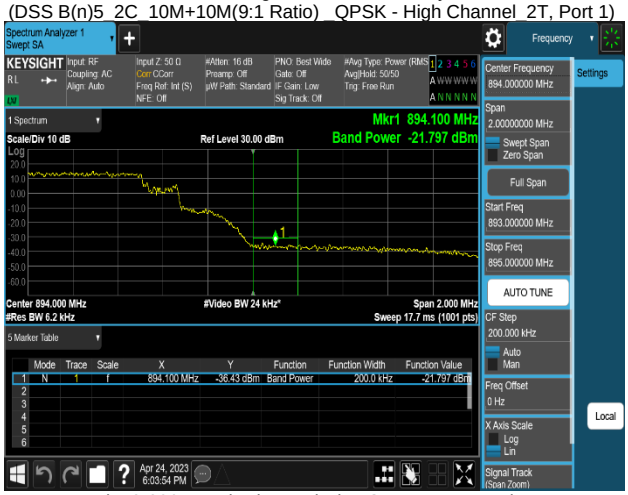
Plot 8-303. Band Edge Emission Summary Data Plot
(DSS B(n)5_2C_10M+10M(9:1 Ratio)_QPSK - Low Channel_2T, Port 1)



Plot 8-304. Band Edge Emission Summary Data Plot
(DSS B(n)5_2C_10M+10M(9:1 Ratio)_QPSK - High Channel_2T, Port 1)



Plot 8-305. Band Edge Emission Summary Data Plot
(DSS B(n)5_2NC_10M+10M(9:1 Ratio)_QPSK - Low Channel_2T, Port 1)



Plot 8-306. Band Edge Emission Summary Data Plot
(DSS B(n)5_2NC_10M+10M(9:1 Ratio) _QPSK - High Channel_2T, Port 1)

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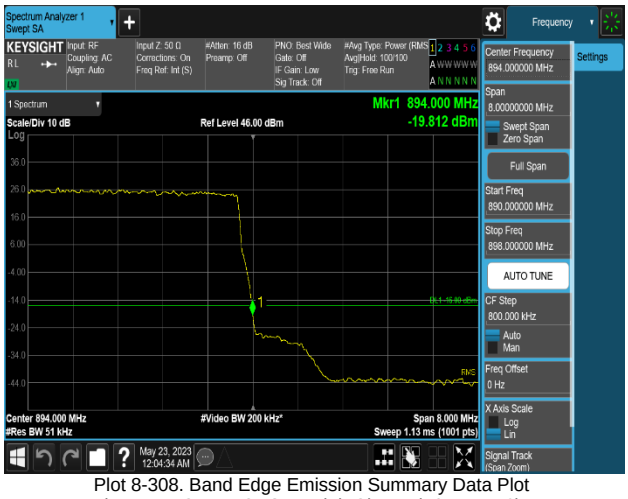
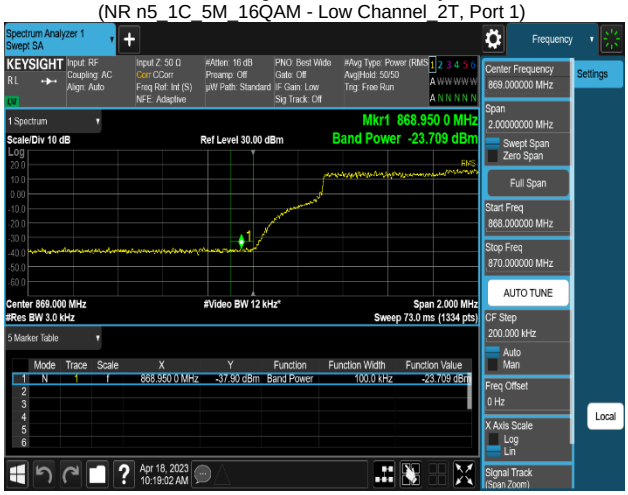
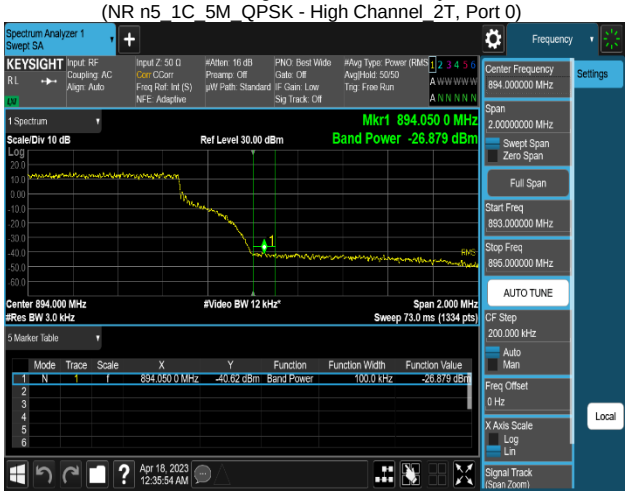
Plot 8-307. Band Edge Emission Summary Data Plot
(NR n5_1C_5M_16QAM - Low Channel_2T, Port 1)



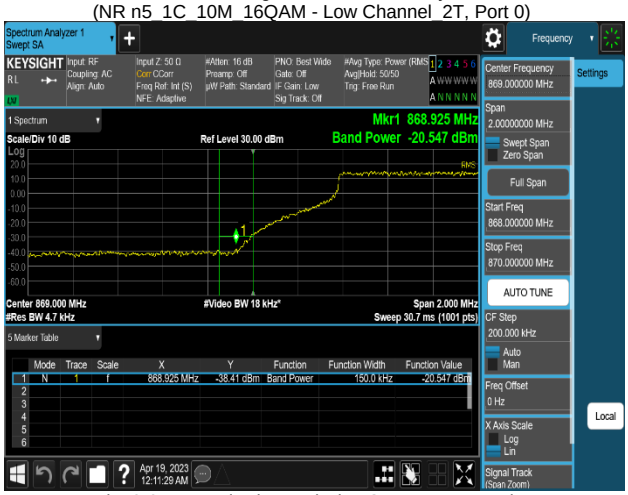
Plot 8-308. Band Edge Emission Summary Data Plot
(NR n5_1C_5M_QPSK - High Channel_2T, Port 0)



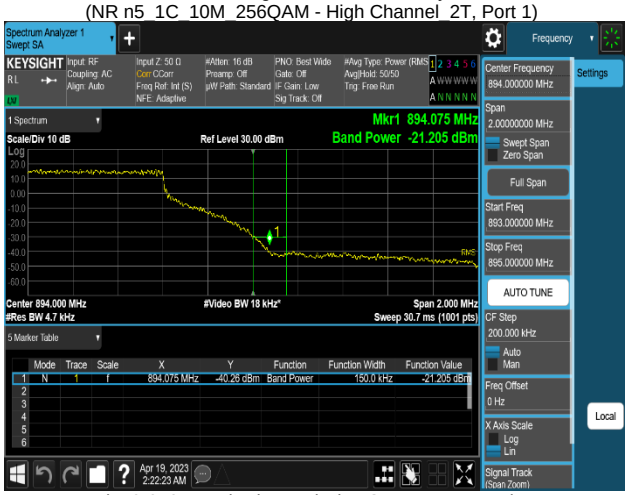
Plot 8-309. Band Edge Emission Summary Data Plot
(NR n5_1C_10M_16QAM - Low Channel_2T, Port 0)



Plot 8-310. Band Edge Emission Summary Data Plot
(NR n5_1C_10M_256QAM - High Channel_2T, Port 1)



Plot 8-311. Band Edge Emission Summary Data Plot
(NR n5_1C_15M_QPSK - Low Channel_2T, Port 1)



Plot 8-312. Band Edge Emission Summary Data Plot
(NR n5_1C_15M_16QAM - High Channel_2T, Port 1)

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