



CTK Co., Ltd.

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REPORT No.:
CTK-2026-01690
Page (128) / (169) pages

Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
Low	QPSK	Port 37	-67.97	-66.39	-69.77	-74.93
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-19.91	-18.33	-21.71	-26.87
Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
Mid	QPSK	Port 32	-67.49	-65.97	-70.12	-74.95
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-19.43	-17.91	-22.06	-26.89
Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
High	QPSK	Port 44	-68.39	-66.56	-70.16	-74.39
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-20.33	-18.50	-22.1	-26.33

Table 8-30 CSE Test Result Table (NR_n48_3C_10M+20M+40M)

Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
Mid	QPSK	Port 32	-67.66	-66.18	-69.73	-74.56
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-19.6	-18.12	-21.67	-26.5

Table 8-31 CSE Test Result Table (NR_n48_2NC_10M+20M)

Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
Mid	QPSK	Port 37	-68.08	-66.19	-69.98	-74.49
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-20.02	-18.13	-21.92	-26.43

Table 8-32 CSE Test Result Table (NR_n48_3NC_10M+20M+20M)

Channel	Modulation	Worst Port	Measured Range (MHz)			
			30 to 3530MHz	3.72 to 6.2GHz	6.2 to 18GHz	18 to 40GHz
Mid	QPSK	Port 32	-67.49	-66.15	-70.26	-74.64
		MIMO Limit (dBm)	-48.06	-48.06	-48.06	-48.06
		Margin (dB)	-19.43	-18.09	-22.20	-26.58

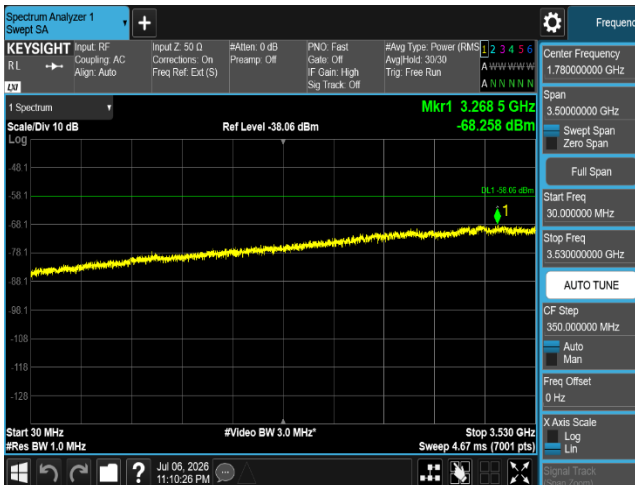
Table 8-33 CSE Test Result Table (NR_n48_3NC_10M+20M+40M)



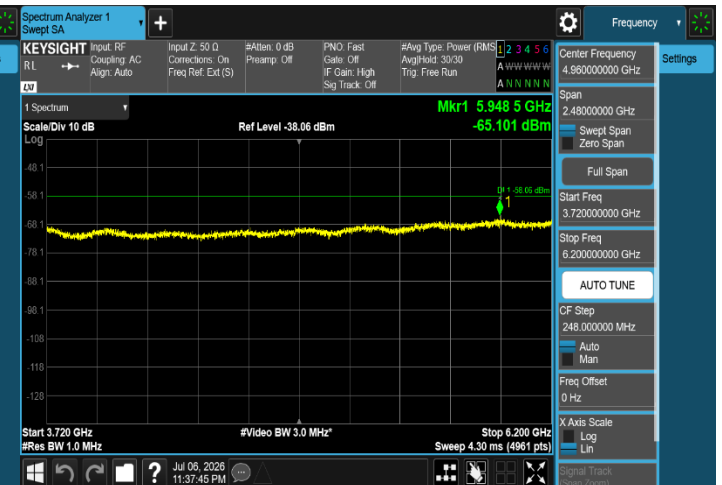
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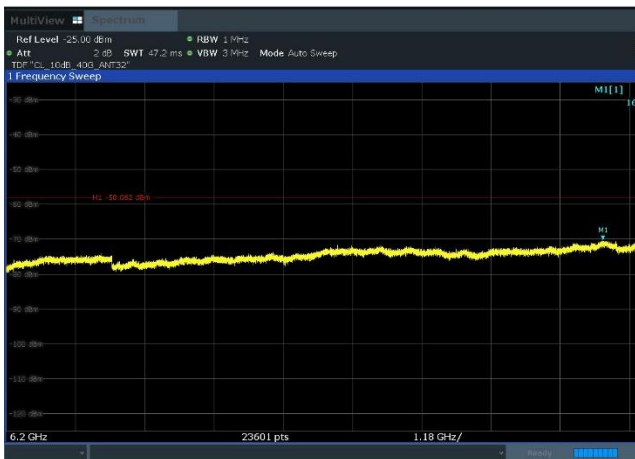
REPORT No.:
CTK-2026-01690
Page (129) / (169) pages



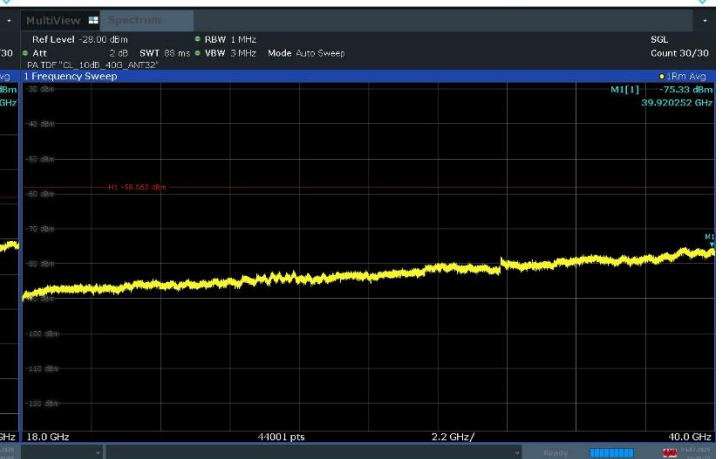
Plot 8-84. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 32)



Plot 8-85. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 32)



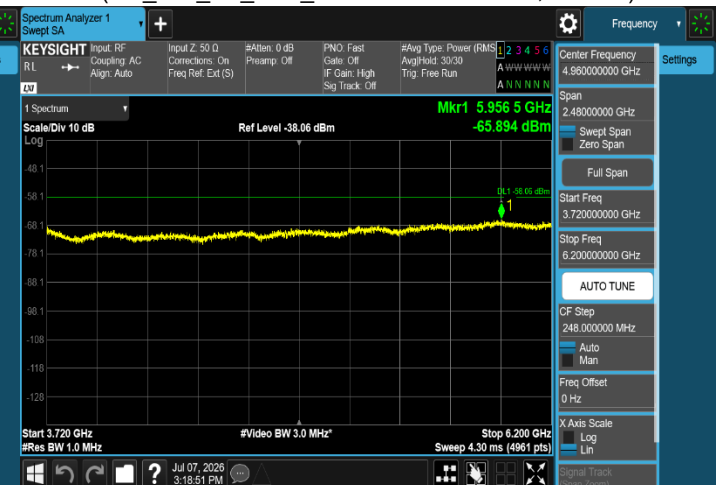
Plot 8-86. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 32)



Plot 8-87. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 32)



Plot 8-88. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz
(NR_n48_2C_10M+20M_QPSK - Low Channel, Port 16)



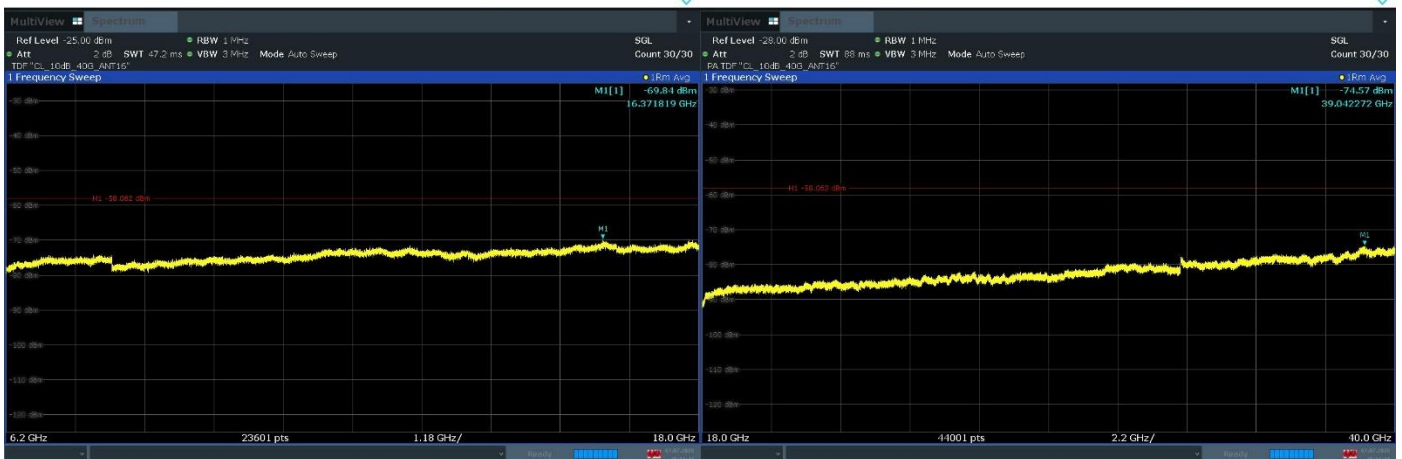
Plot 8-89. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz
(NR_n48_2C_10M+20M_QPSK - Low Channel, Port 16)



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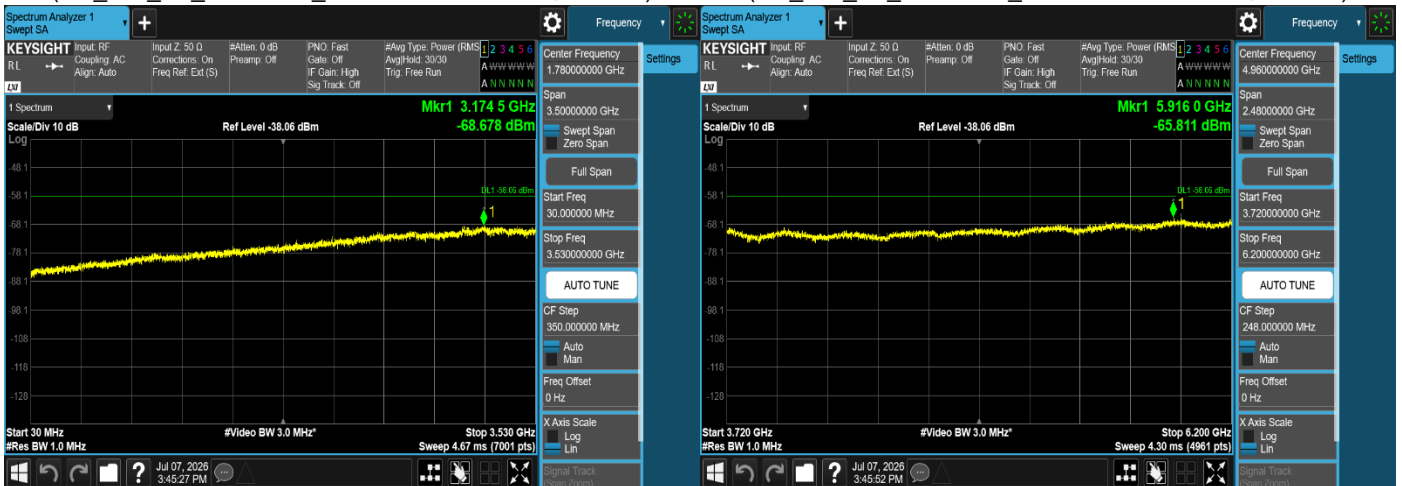
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Page (130) / (169) pages



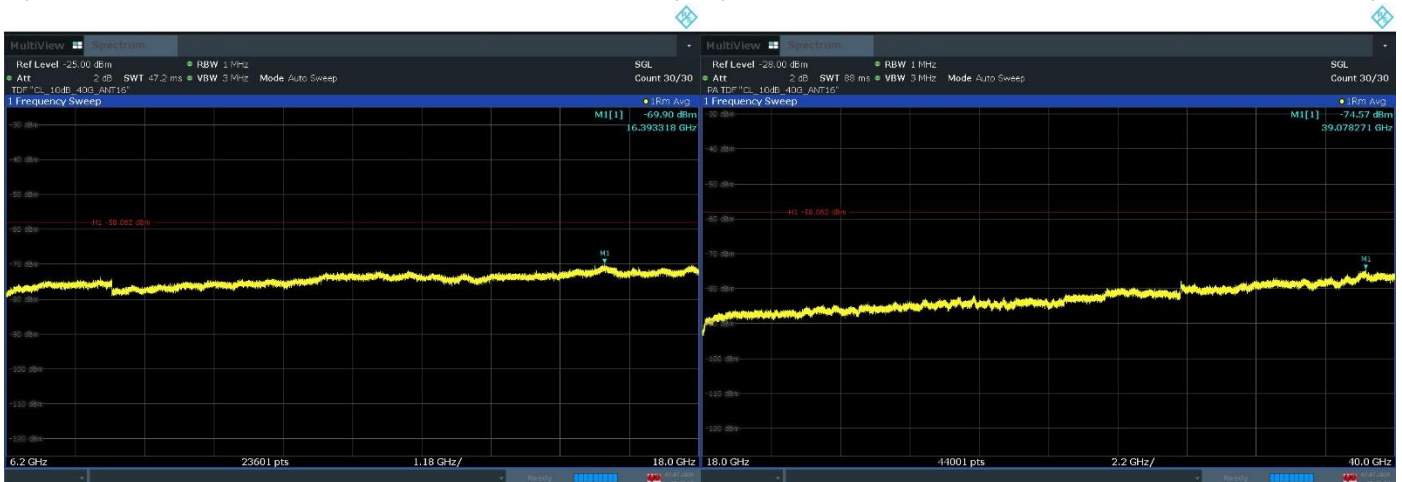
Plot 8-90. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz
(NR_n48_2C_10M+20M_QPSK - Low Channel, Port 16)

Plot 8-91. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz
(NR_n48_2C_10M+20M_QPSK - Low Channel, Port 16)



Plot 8-92. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz
(NR_n48_3C_10M+20M+20M_QPSK - Low Channel, Port 16)

Plot 8-93. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz
(NR_n48_3C_10M+20M+20M_QPSK - Low Channel, Port 16)



Plot 8-94. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz
(NR_n48_3C_10M+20M+20M_QPSK - Low Channel, Port 16)

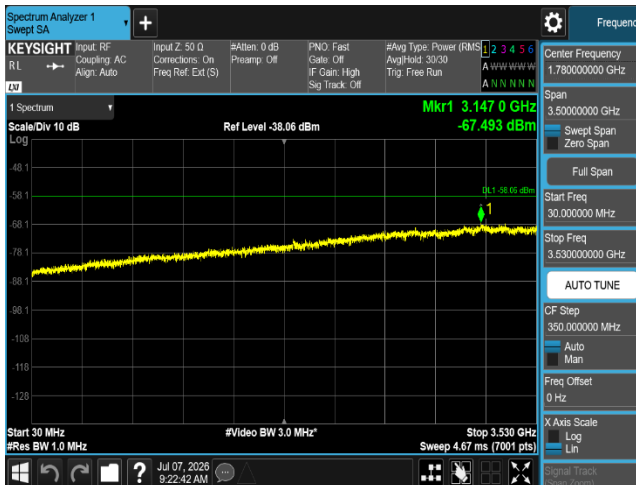
Plot 8-95. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz
(NR_n48_3C_10M+20M+20M_QPSK - Low Channel, Port 16)



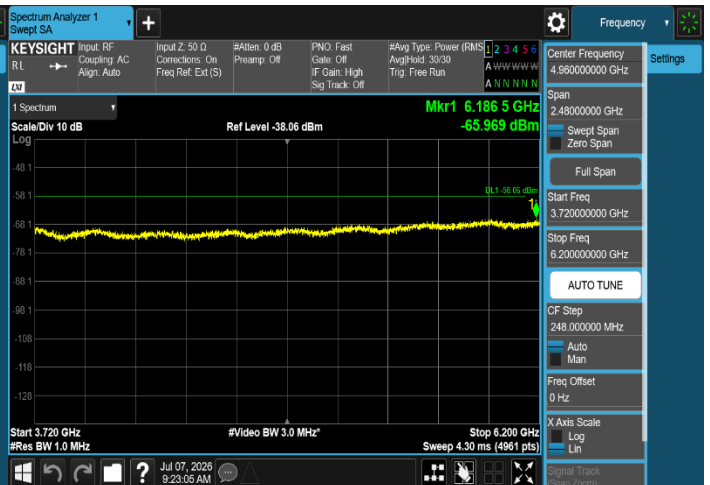
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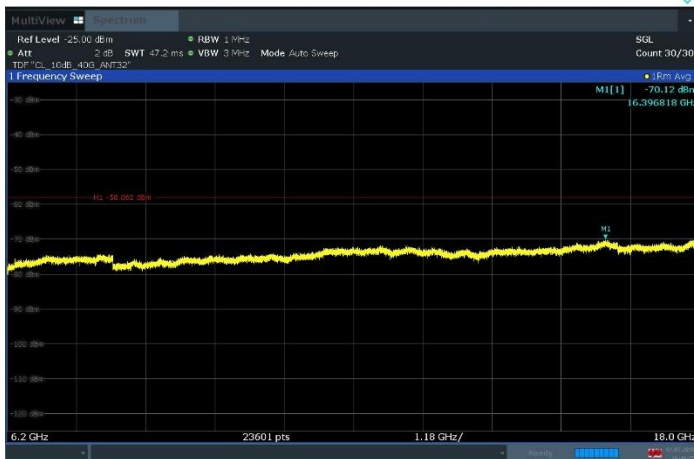
REPORT No.:
CTK-2026-01690
Page (131) / (169) pages



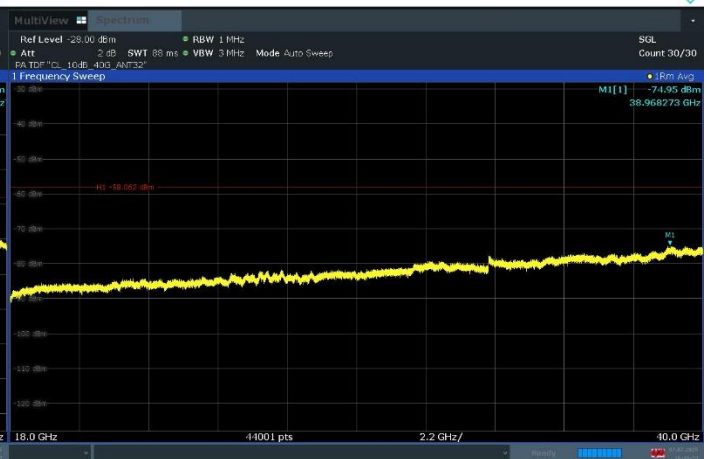
Plot 8-96. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz
(NR_n48_3C_10M+20M+40M_QPSK - Mid Channel, Port 32)



Plot 8-97. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz
(NR_n48_3C_10M+20M+40M_QPSK - Mid Channel, Port 32)



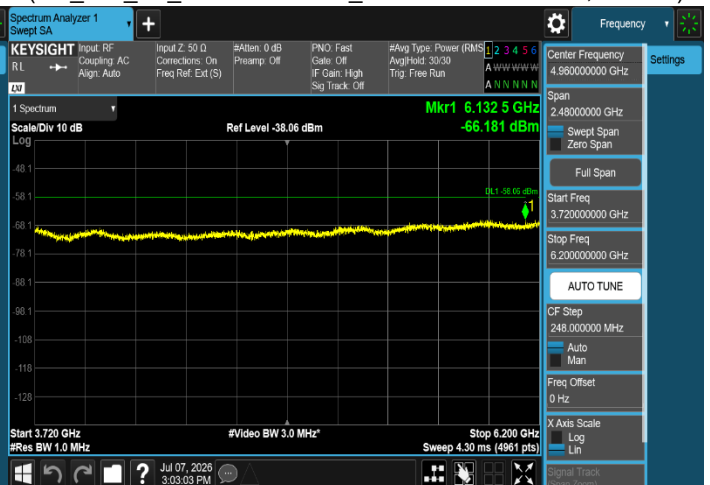
Plot 8-98. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz
(NR_n48_3C_10M+20M+40M_QPSK - Mid Channel, Port 32)



Plot 8-99. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz
(NR_n48_3C_10M+20M+40M_QPSK - Mid Channel, Port 32)



Plot 8-100. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz
(NR_n48_2NC_10M+20M_QPSK - Middle Channel, Port 32)



Plot 8-101. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz
(NR_n48_2NC_10M+20M_QPSK - Middle Channel, Port 32)



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Page (132) / (169) pages

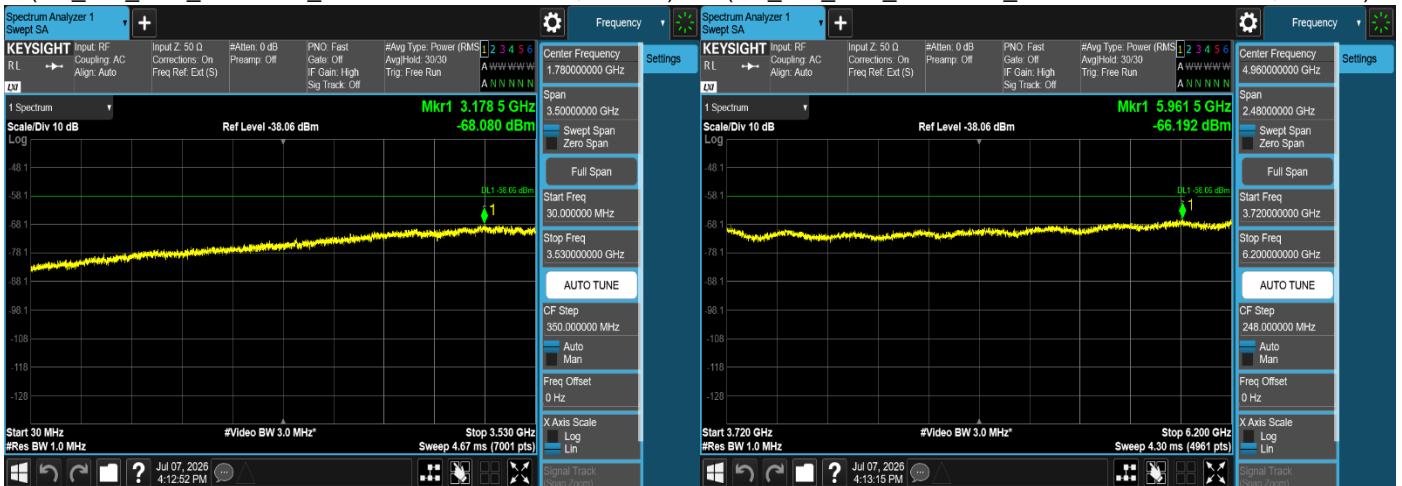


Plot 8-102. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz

(NR_n48_2NC_10M+20M_QPSK - Middle Channel, Port 32)

Plot 8-103. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz

(NR_n48_2NC_10M+20M_QPSK - Middle Channel, Port 32)



Plot 8-104. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz

(NR_n48_3NC_10M+20M+20M_QPSK - Middle Channel, Port 37)

Plot 8-105. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz

(NR_n48_3NC_10M+20M+20M_QPSK - Middle Channel, Port 37)



Plot 8-106. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz

(NR_n48_3NC_10M+20M+20M_QPSK - Middle Channel, Port 37)

Plot 8-107. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz

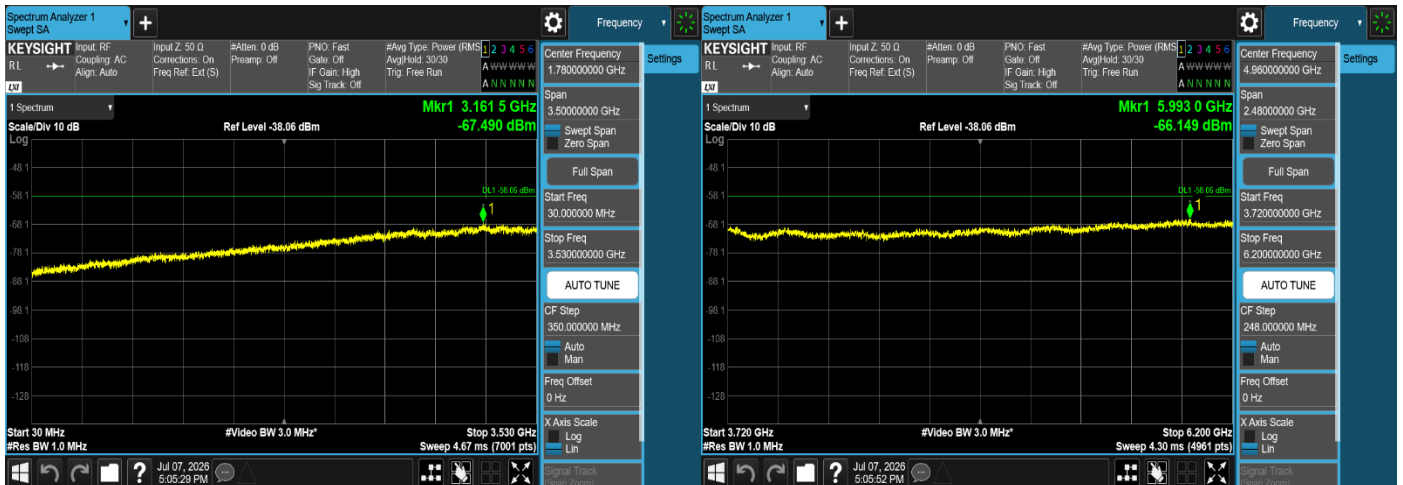
(NR_n48_3NC_10M+20M+20M_QPSK - Middle Channel, Port 37)



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Page (133) / (169) pages

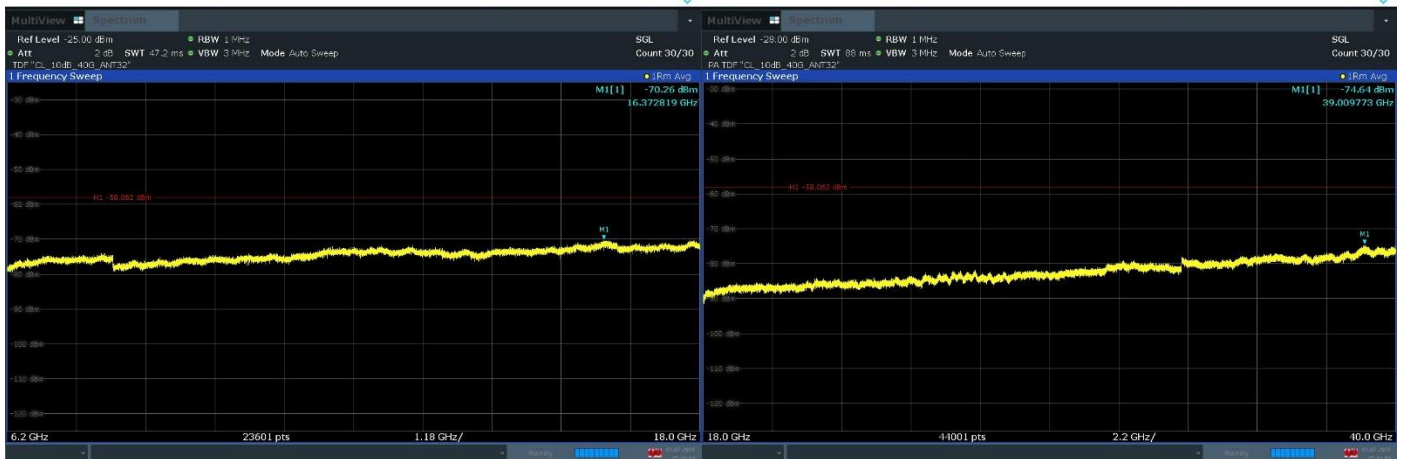


Plot 8-108. Conducted Spurious Emission Plot
Frequency Range 30 to 3530MHz

(NR_n48_3NC_10M+20M+40M_QPSK - Middle Channel, Port 32)

Plot 8-109. Conducted Spurious Emission Plot
Frequency Range 3.72 to 6.2GHz

(NR_n48_3NC_10M+20M+40M_QPSK - Middle Channel, Port 32)



Plot 8-110. Conducted Spurious Emission Plot
Frequency Range 6.2 to 18GHz

(NR_n48_3NC_10M+20M+40M_QPSK - Middle Channel, Port 32)

Plot 8-111. Conducted Spurious Emission Plot
Frequency Range 18 to 40GHz

(NR_n48_3NC_10M+20M+40M_QPSK - Middle Channel, Port 32)

8.8 Radiated spurious emission

Test Overview

Radiated spurious emissions measurements are performed using the field strength method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized broadband tri-log antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedure Used

ANSI C63.26 - Section 5.5.3.2

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency
2. RBW = 1 MHz (the reference bandwidth)
3. VBW $\geq 3 \times$ RBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2 dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize.

Limit

§ 96.41 (e)

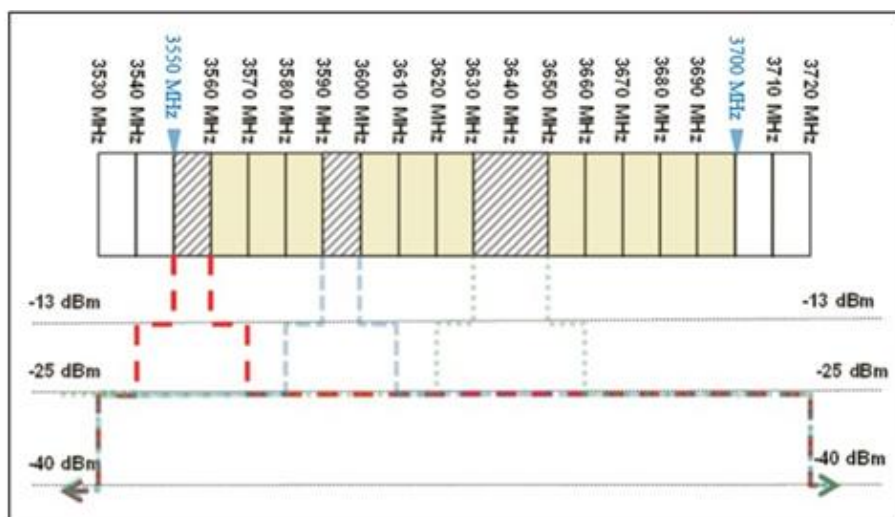


Figure 1—Emission limits for example SAS-assigned channels

- Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz
- Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz
- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

Test Setup

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

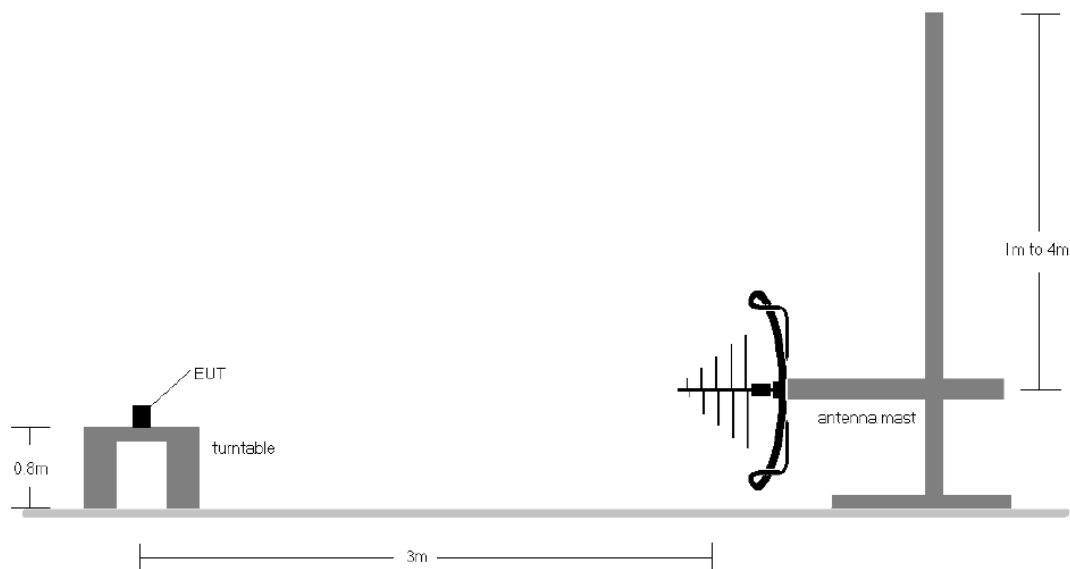


Figure 8-7. Test Instrument & Measurement Setup 30 MHz to 1000 MHz

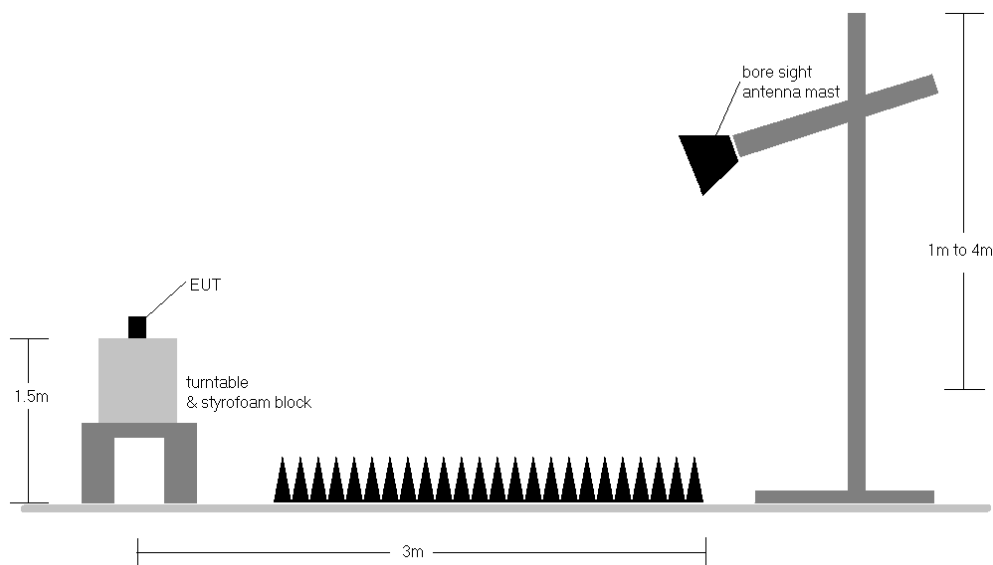


Figure 8-8. Test Instrument & Measurement Setup 1 GHz to 18 GHz

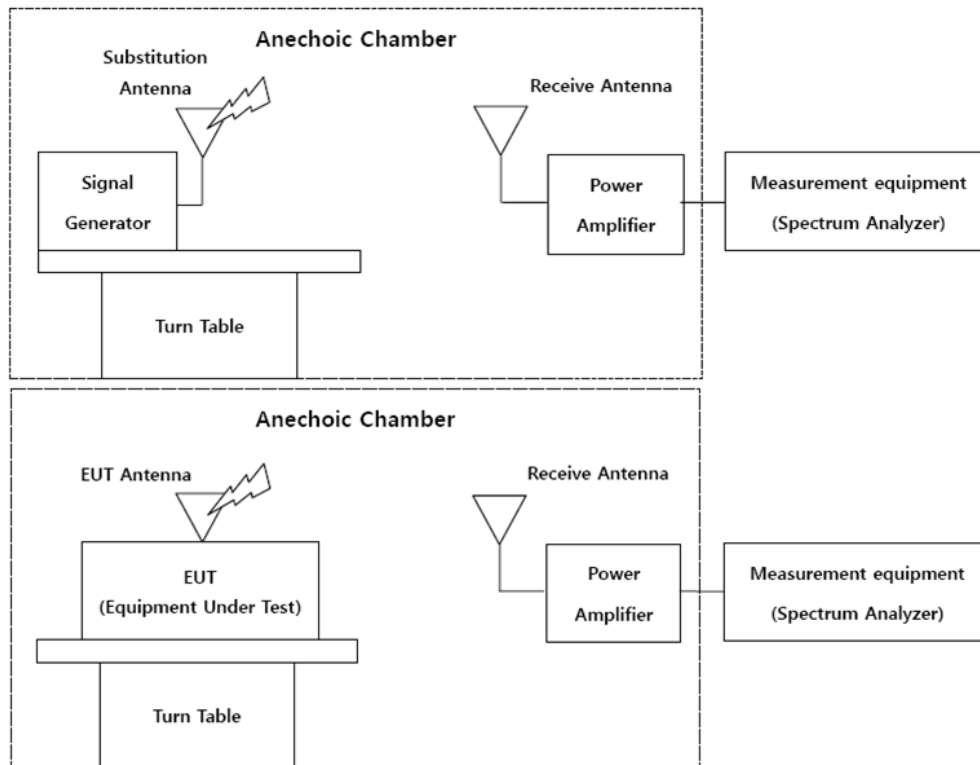


Figure 8-9. Test Instrument & Measurement Setup 18 GHz to 40 GHz

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REPORT No.:
CTK-2026-01690
Page (137) / (169) pages

Test Notes

1. The below 18GHz average EIRP reported below is calculated per 5.2.7 of ANSI C63.26-2015 which states:

The measured E-field in V/m is converted to e.i.r.p in dBm.

Effective Isotropic Radiated Power Sample Calculation

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 68.9 \text{ [dB}\mu\text{V/m]} - 16.1 \text{ [dB/m]} = 52.8 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 52.8 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -42.5 \text{ dBm}\end{aligned}$$

2. The above 18GHz average EIRP reported below is calculated per 5.5.3 of ANSI C63.26-2015 which states:

Effective Isotropic Radiated Power Sample Calculation**Substitution measurement**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -50.1 \text{ dBm} + 2.2 \\ &= -47.9 \text{ dBm}\end{aligned}$$

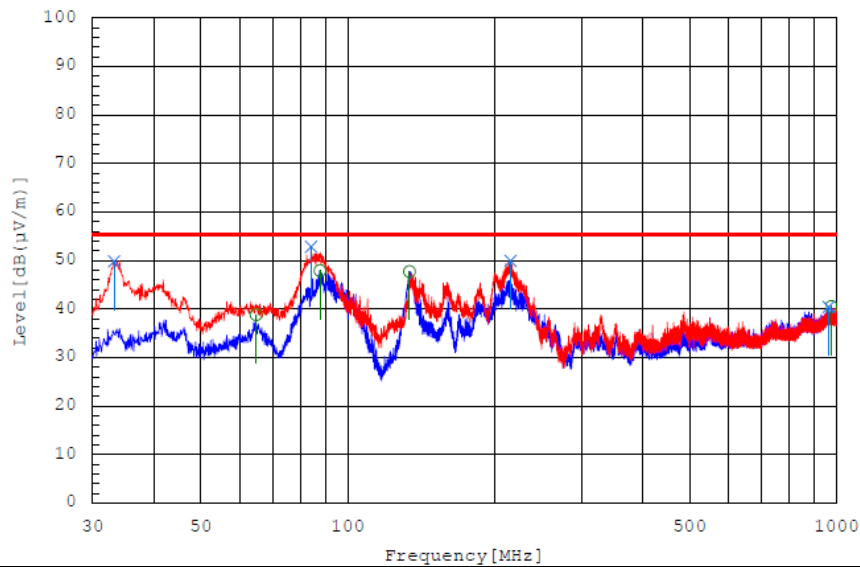
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from 30 MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. All emissions were measured at a 3-meter test distance.
6. Spurious emissions were measured with all EUT antennas transmitting simultaneously and all antenna ports terminated.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All modes of operation were investigated and the worst case configuration results are reported in this section.



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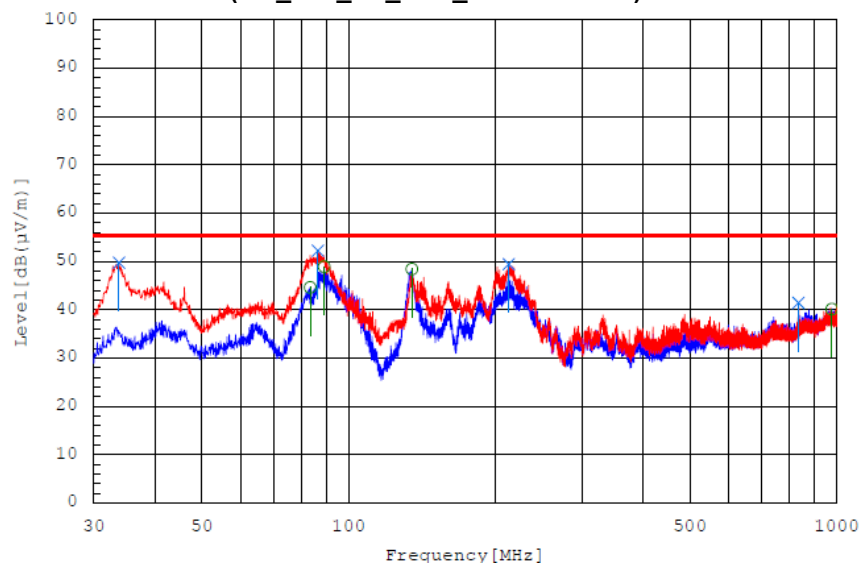
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REPORT No.:
CTK-2026-01690
Page (138) / (169) pages



Frequency [MHz]	Ant. Pol. [H/V]	Level [dBμV/m]	AFCL [dB]	Strength [dBμV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	azimuth [degree]
33.2	V	56.8	-7.0	49.8	-45.4	-40	-5.4	215.0	75.1
64.8	H	57.4	-18.6	38.8	-56.4	-40	-16.4	134.0	359.1
83.9	V	68.9	-16.1	52.8	-42.5	-40	-2.5	114.0	351.9
87.6	H	63.6	-15.7	47.9	-47.4	-40	-7.4	187.0	109.3
133.5	H	60.3	-12.6	47.7	-47.6	-40	-7.6	193.0	195.2
215.1	V	64.4	-14.5	49.9	-45.4	-40	-5.4	118.0	359.1

Plot 8-112. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_1C_10M_Low Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Level [dBμV/m]	AFCL [dB]	Strength [dBμV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
33.7	V	56.9	-7.2	49.7	-45.6	-40.0	-5.6	114.0	0
83.2	H	60.8	-16.2	44.6	-50.7	-40.0	-10.7	189.9	82.3
86.3	V	68.1	-15.9	52.2	-43.1	-40	-3.1	116.0	342.4
212.6	V	64.0	-14.6	49.4	-45.9	-40	-5.9	121.0	357.7
88.9	H	64.4	-15.5	48.9	-46.4	-40	-6.4	219.0	58.9
134.5	H	61.0	-12.6	48.4	-46.9	-40	-6.9	176.0	202.4

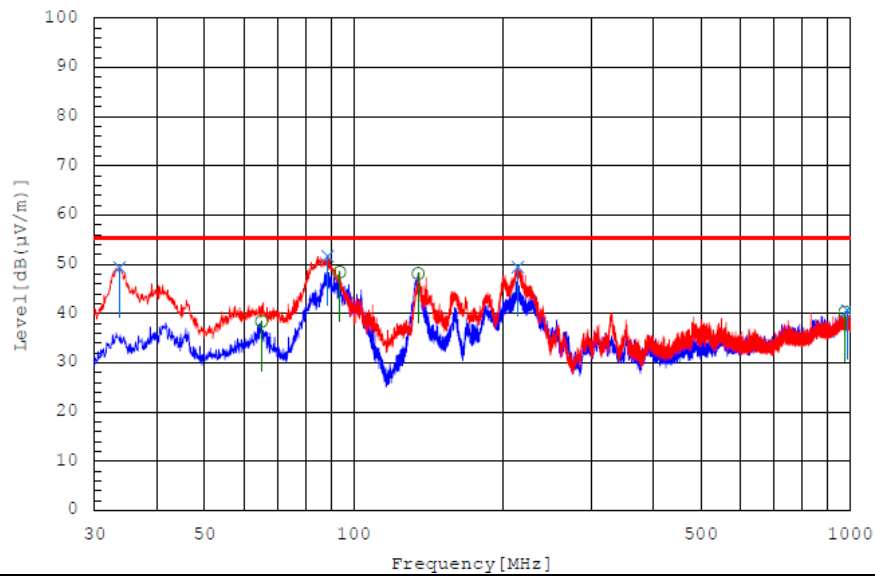
Plot 8-113. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_1C_10M_Mid Channel)



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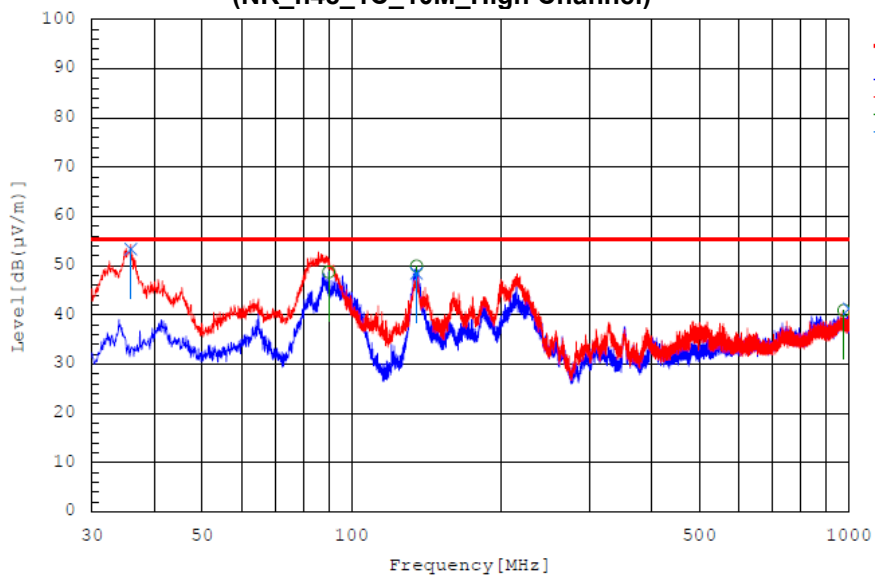
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Frequency [MHz]	Ant. Pol. [H/V]	Level [dBμV/m]	AFCL [dB]	Strength [dBμV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
33.6	V	56.5	-7.2	49.3	-46.0	-40.0	-6.0	127.0	0.2
65.1	H	56.9	-18.5	38.4	-56.9	-40.0	-16.9	203.0	53.9
88.4	V	67.2	-15.6	51.6	-43.7	-40	-3.7	131.0	5.8
93.5	H	63.4	-15.0	48.4	-46.9	-40	-6.9	119.0	47.3
134.5	H	60.7	-12.6	48.1	-47.2	-40	-7.2	216.0	217.8
213.8	V	64.0	-14.6	49.4	-45.9	-40	-5.9	194.0	0.2

Plot 8-114. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_1C_10M_High Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Level [dBμV/m]	AFCL [dB]	Strength [dBμV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
35.9	V	61.4	-8.1	53.3	-42.0	-40	-2.0	118.0	301.3
89.8	H	64.2	-15.5	48.7	-46.6	-40	-6.6	111.0	78.8
134.8	V	61.0	-12.6	48.4	-46.9	-40	-6.9	130.0	273.9
134.8	H	62.5	-12.6	49.9	-45.4	-40	-5.4	173.0	185.2

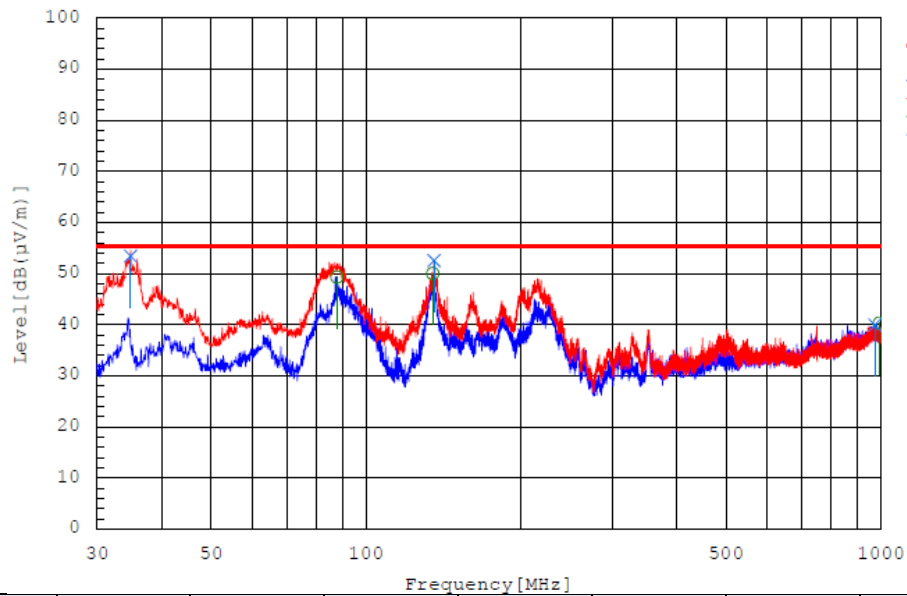
Plot 8-115. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_2C_20M+10M_Low Channel)



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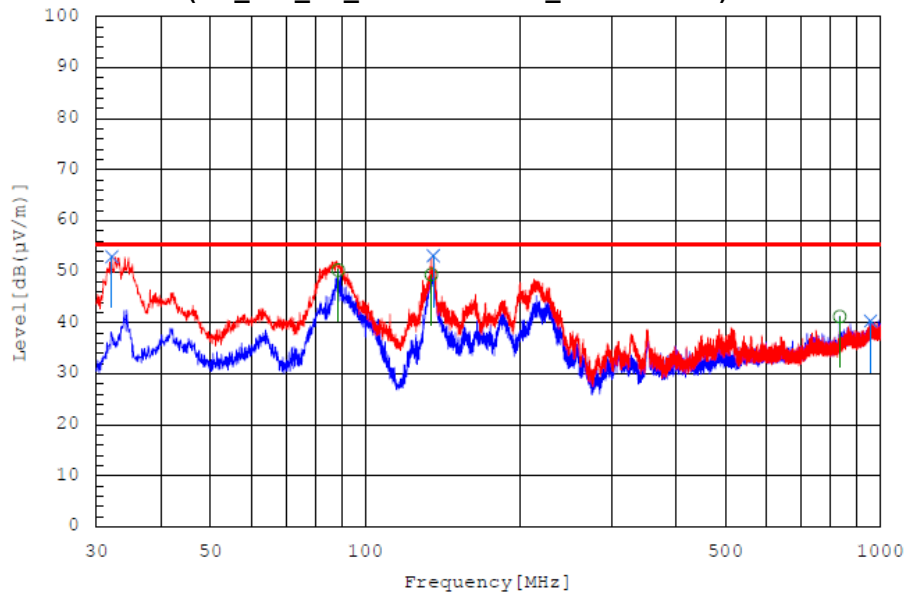
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Page (140) / (169) pages



Frequency [MHz]	Ant. Pol. [H/V]	Level [dB μV/m]	AFCL [dB]	Strength [dB μV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
34.8	V	61.1	-7.7	53.4	-41.9	-40	-1.9	127.0	318.8
87.7	H	65.0	-15.7	49.3	-46.0	-40	-6.0	176.0	73.7
134.5	H	62.6	-12.6	50.0	-45.3	-40	-5.3	216.0	228.3
135.4	V	65.1	-12.6	52.5	-42.8	-40	-2.8	106.0	266.9

Plot 8-116. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_3C_10M+20M+20M_Mid Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Level [dB μV/m]	AFCL [dB]	Strength [dB μV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
32.1	V	59.6	-6.7	52.9	-42.4	-40	-2.4	109.0	335.9
88.4	H	65.9	-15.6	50.3	-45.0	-40	-5.0	179.0	69.1
134.1	H	62.0	-12.6	49.4	-45.9	-40	-5.9	188.0	205.9
135.3	V	65.7	-12.6	53.1	-42.2	-40	-2.2	122.0	260.7

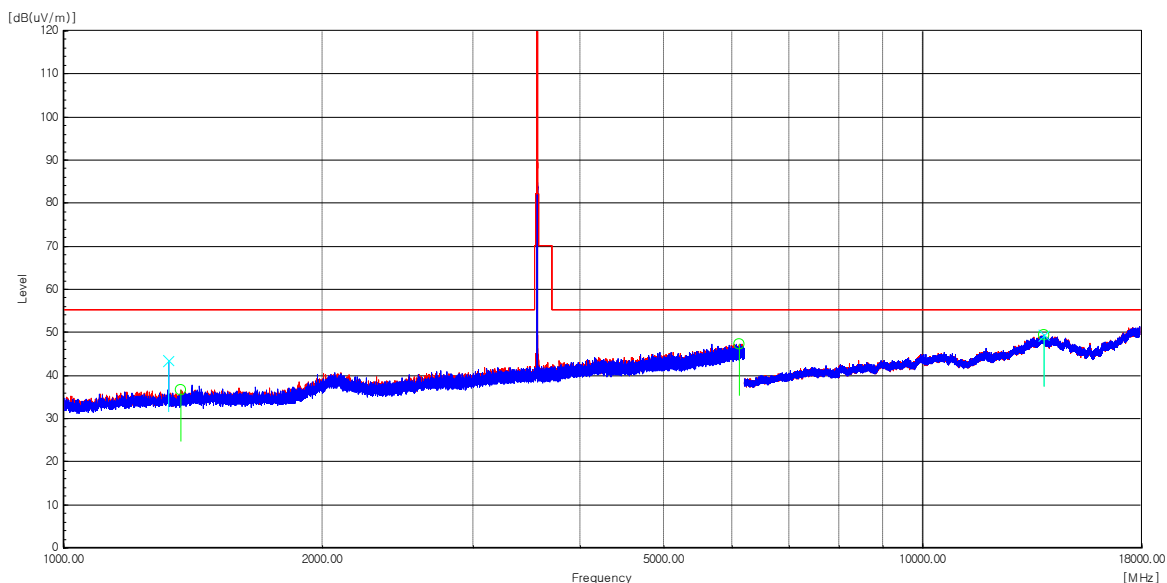
Plot 8-117. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_n48_3C_10M+20M+40M_Mid Channel)



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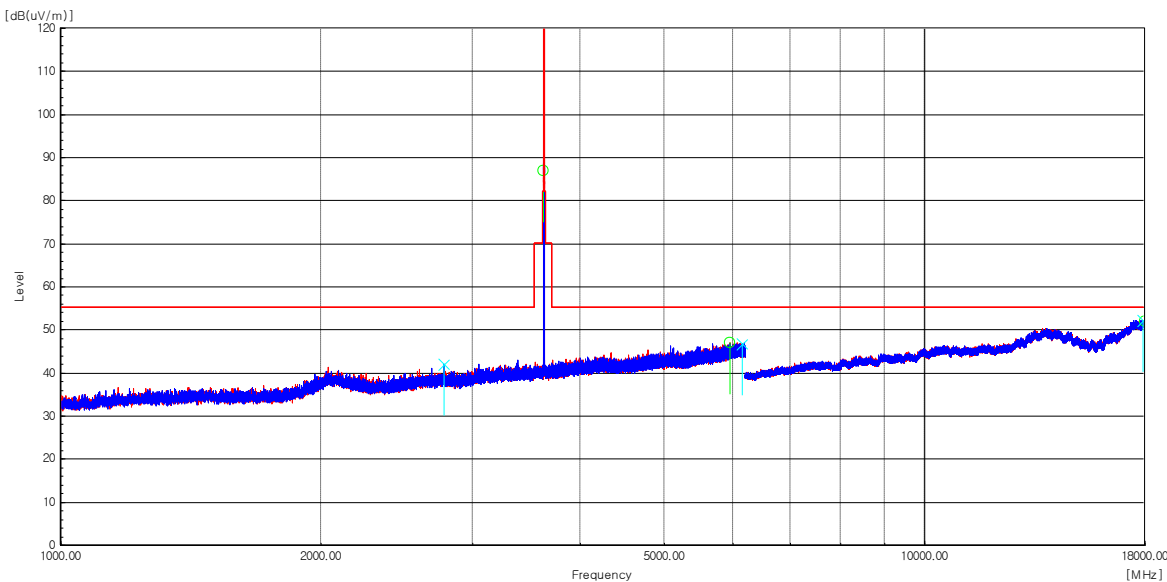
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REPORT No.:
CTK-2026-01690
Page (141) / (169) pages



Frequency [MHz]	Ant. Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
1325.0	V	47.3	-10.5	36.8	-58.5	-40	-18.5	117.2	245.8
1369.4	H	46.8	-10.3	36.5	-58.8	-40	-18.8	108.3	353.2
13836.3	H	35.2	14.1	49.3	-46.0	-40	-6.0	182.7	197.5
13849.0	V	35.3	14.1	49.4	-45.9	-40	-5.9	220.3	197.3

Plot 8-118. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n48_1C_10M_Low Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
2780.5	V	46.7	-4.7	42.0	-53.3	-40	-13.3	168.2	349.2
17891.9	V	36	16.2	52.2	-43.1	-40	-3.1	224.7	166.8
17980.1	H	36.1	16	52.1	-43.2	-40	-3.2	196.4	31.8

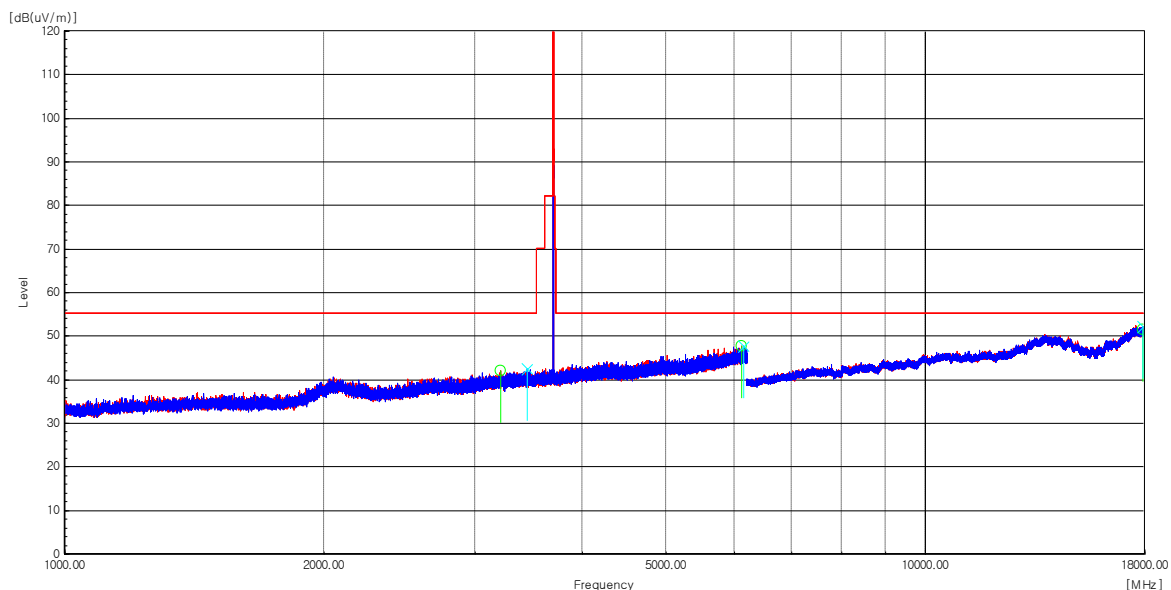
Plot 8-119. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n48_1C_10M_Mid Channel)



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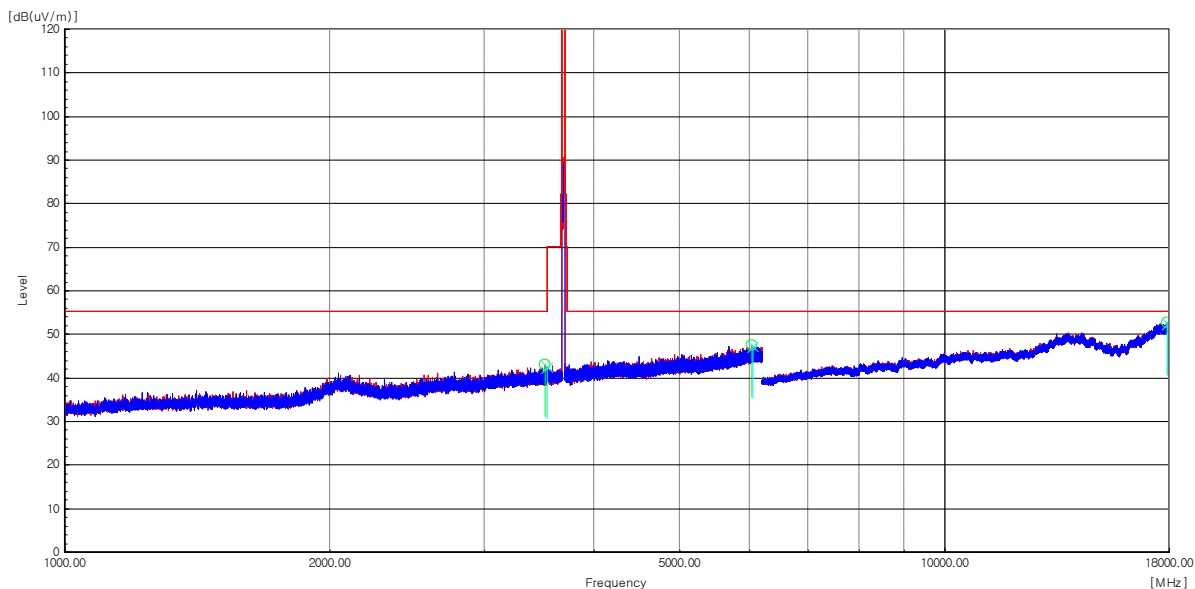
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REPORT No.:
CTK-2026-01690
Page (142) / (169) pages



Frequency [MHz]	Ant.Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
3207.3	H	45.4	-3.3	42.1	-53.2	-40	-13.2	187.3	345.5
6116.1	H	43.7	3.9	47.6	-47.7	-40	-7.7	213.7	244.9

Plot 8-120. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n48_1C_10M_High Channel)



Frequency [MHz]	Ant.Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
3517.5	H	45.5	-2.5	43.0	-52.3	-40	-12.3	220.4	99
3533.7	V	45.0	-2.4	42.6	-52.7	-40	-12.7	197.4	126.6

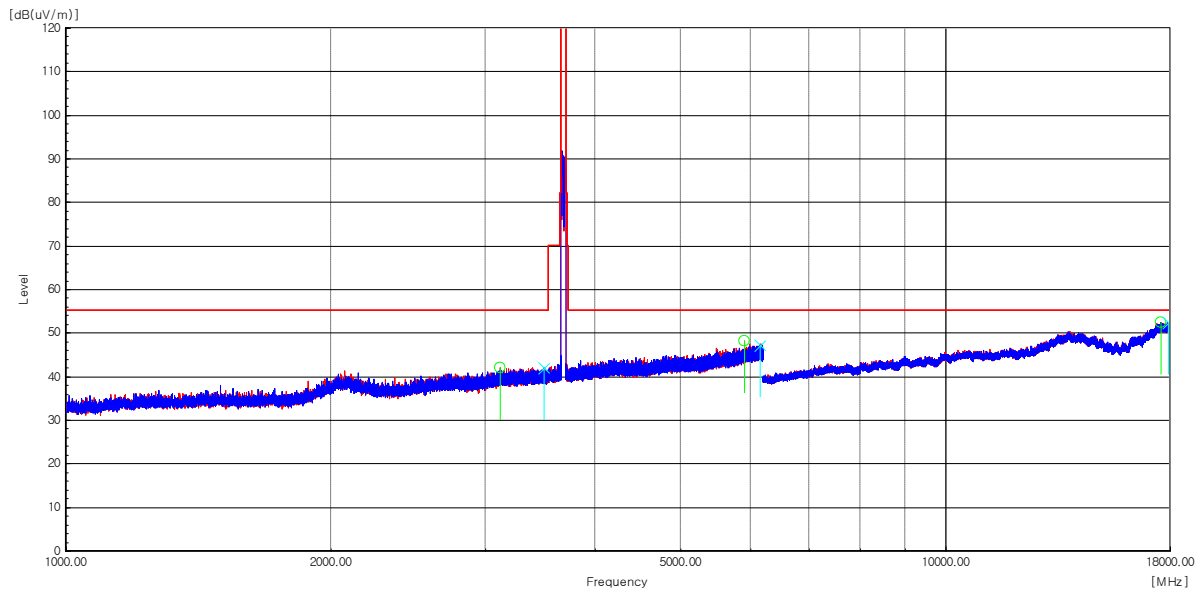
Plot 8-121. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n48_2C_10M+20M_High Channel)



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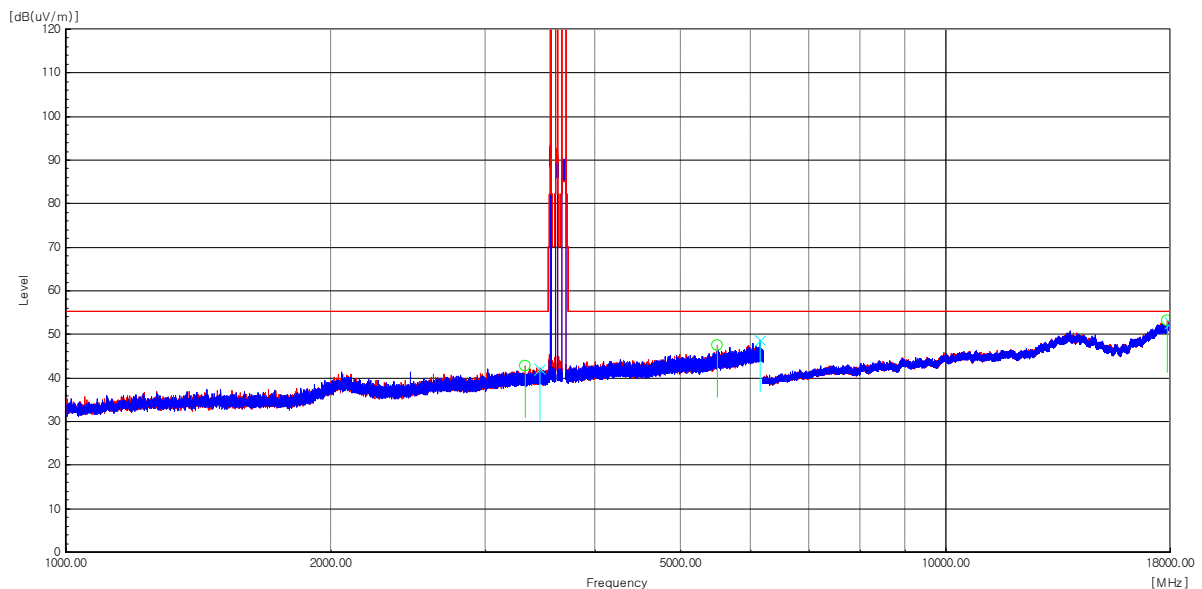
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REPORT No.:
CTK-2026-01690
Page (143) / (169) pages



Frequency [MHz]	Ant.Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
3113.5	H	45.7	-3.6	42.1	-53.2	-40	-13.2	220.4	36.8
3495.6	V	44.8	-2.6	42.2	-53.1	-40	-13.1	187.1	358.8

Plot 8-122. Radiated spurious emission Plot_1 GHz to 18 GHz (NR_n48_3C_10M+20M+20M_High Channel)



Frequency [MHz]	Ant.Pol. [H/V]	Level [dB μ V/m]	AFCL [dB]	Strength [dB μ V/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Heigh [cm]	Azimuth [degree]
5498.3	H	45.3	2.2	47.5	-47.8	-40	-7.8	227.4	292.8
6146.7	V	44.7	4.0	48.7	-46.6	-40	-6.6	162.1	286.8

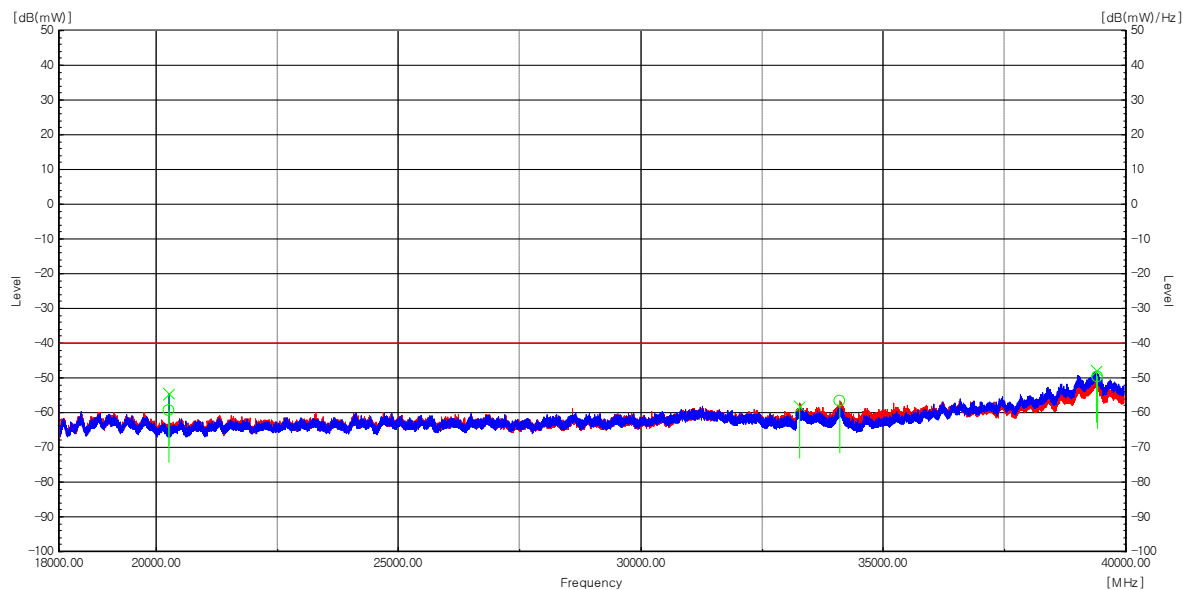
Plot 8-123. Radiated spurious emission Plot_1 GHz to 18 GHz (NR_n48_3NC_10M+20M+40M_Mid Channel)



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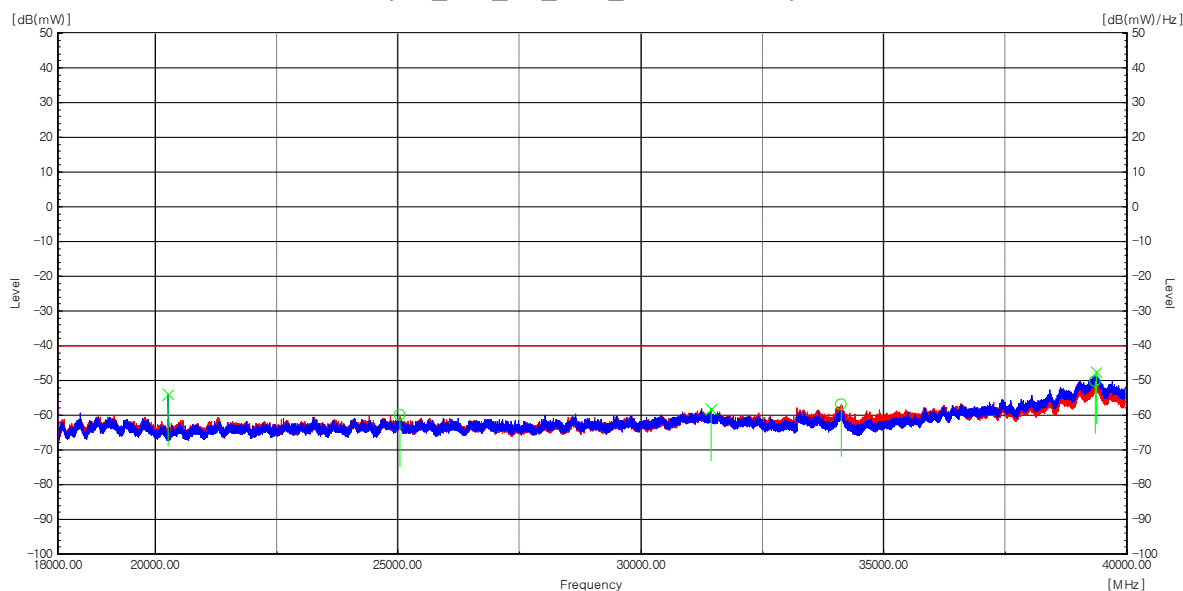
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REPORT No.:
CTK-2026-01690
Page (144) / (169) pages



Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level[dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Azimuth [degree]
20274.7	V	-43.8	-10.7	-54.5	-40	-14.5	287
20275.5	H	-49.3	-10.1	-59.4	-40	-19.4	309.7
39399.4	V	-50.1	2.2	-47.9	-40	-7.9	78.0
39414.8	H	-49.6	-0.1	-49.7	-40	-9.7	359.4

Plot 8-124. Radiated spurious emission Plot_18 GHz to 40 GHz
(NR_n48_1C_10M_Low Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level[dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Azimuth [degree]
20274.7	V	-43.3	-10.7	-54	-40	-14.0	287.9
25031.1	H	-54.0	-5.9	-59.9	-40	-19.9	298.4
39351.7	H	-49.8	-0.4	-50.2	-40	-10.2	78.0
39361.2	V	-49.4	2	-47.4	-40	-7.4	359.4

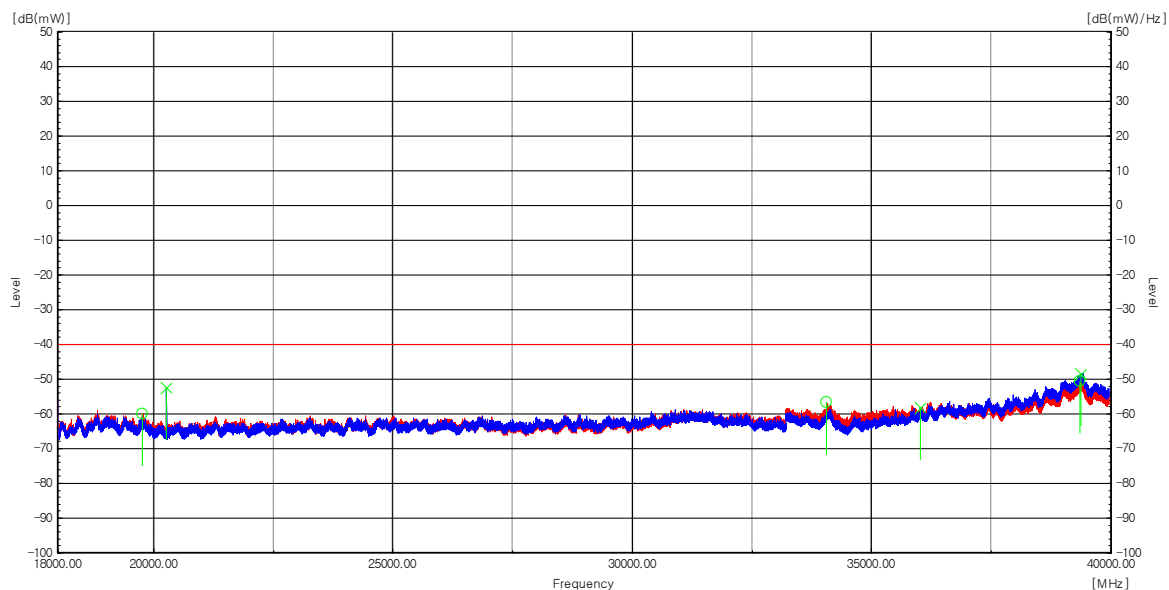
Plot 8-125. Radiated spurious emission Plot_18 GHz to 40 GHz
(NR_n48_1C_10M_Mid Channel)



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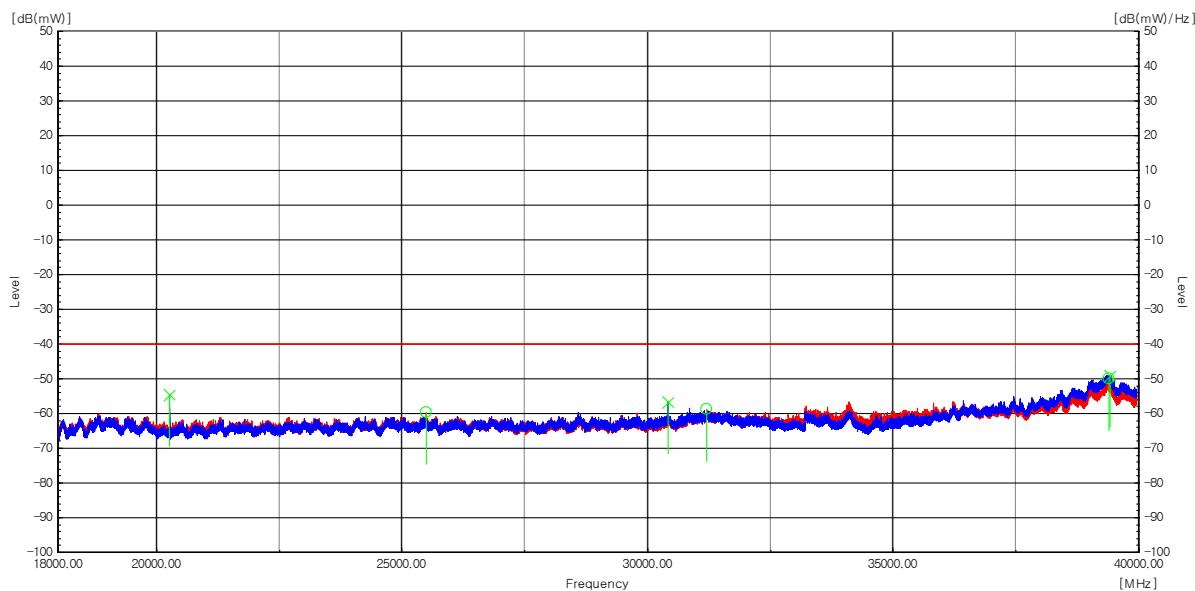
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REPORT No.:
CTK-2026-01690
Page (145) / (169) pages



Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level[dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Azimuth [degree]
19765.8	H	-51.8	-8.1	-59.9	-40	-19.9	6.9
20274.7	V	-41.7	-10.7	-52.4	-40	-12.4	287.4
39356.1	H	-50.2	-0.4	-50.6	-40	-10.6	359.2
39366.4	V	-50.5	2.1	-48.4	-40	-8.4	44.0

Plot 8-126. Radiated spurious emission Plot_18 GHz to 40 GHz
(NR_n48_1C_10M_High Channel)



Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level[dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Azimuth [degree]
20274.7	V	-43.8	-10.7	-54.5	-40	-14.5	287.3
25487.3	H	-53.4	-6.2	-59.6	-40	-19.6	324.3
30413.1	V	-49.1	-7.6	-56.7	-40	-16.7	295.7
31206.6	H	-50.4	-8.5	-58.9	-40	-18.9	236.4

Plot 8-127. Radiated spurious emission Plot_18 GHz to 40 GHz
(NR_n48_3NC_10M+20M+40M_Mid Channel)

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REPORT No.:
CTK-2026-01690
Page (146) / (169) pages

9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung MMU (MT6402)**, FCC ID: **A3LMT6402-48A** complies with all of the requirements of Part 96 of the FCC Rules.

10.0 APPENDIX. A

10.1 Conducted Average Output Power

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Description

KDB 971168 D01 v03r01 – Section 5

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4.4.1

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 2 ~ 3 x OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger Settings is set to "RF Power" for signals with non-continuous operation with the sweep times set to "auto". Refer test note 3 for details.
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize

Test Setup

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

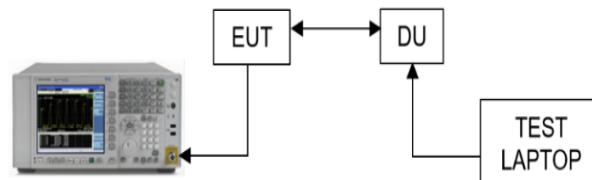


Figure 10-1. Test Instrument & Measurement Setup

Limit

N/A

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REPORT No.:
CTK-2026-01690
Page (148) / (169) pages

Note

1. Result for reference maximum output power of Grant of Authorization is under section 10.1.
2. MIMO Calculations are done considering output channel power for all ports and respective margins are calculated according to procedures in section 6.4 of ANSI C63.26 and section D of KDB 971168 D01 v03r01.
3. Consider the following factors for MIMO Power:
Conducted power for each port is measured in dBm.
Powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01- Section D.
Conducted power per port (dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted power in milliWatts (mW).

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REPORT No.:
CTK-2026-01690
Page (149) / (169) pages

Channel	Port	Conducted Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Low	Port 0	13.08	13.00	12.94	13.51
	Port 1	12.87	12.74	13.24	12.72
	Port 2	13.03	13.00	13.20	12.92
	Port 3	12.78	13.03	12.85	13.49
	Port 4	13.11	13.24	13.42	13.06
	Port 5	12.98	12.91	13.11	12.76
	Port 6	12.67	13.08	12.82	13.02
	Port 7	12.96	13.19	13.01	12.59
	Port 8	12.56	12.91	12.67	12.95
	Port 9	12.80	12.72	12.95	12.60
	Port 10	12.72	12.96	12.85	13.48
	Port 11	12.92	13.08	12.96	12.49
	Port 12	12.78	13.14	13.11	12.66
	Port 13	12.84	12.68	12.96	12.56
	Port 14	12.89	13.06	13.01	12.54
	Port 15	12.81	13.02	12.90	13.59
	Port 16	13.15	12.82	13.16	12.75
	Port 17	13.42	13.13	13.41	13.14
	Port 18	12.96	13.13	12.89	12.55
	Port 19	13.11	12.68	13.06	12.57
	Port 20	13.08	12.81	13.10	12.68
	Port 21	12.88	13.02	12.97	13.49
	Port 22	12.80	13.01	12.73	12.94
	Port 23	12.95	12.92	12.87	13.46
	Port 24	12.84	12.92	12.88	13.37
	Port 25	13.19	12.86	13.16	12.71
	Port 26	13.06	13.08	13.01	12.59
	Port 27	13.25	12.81	13.07	12.80
	Port 28	13.34	12.90	13.34	12.89
	Port 29	13.31	12.89	13.24	12.84
	Port 30	12.91	12.97	12.92	12.53
	Port 31	13.08	12.71	13.09	12.63
	Port 32	12.79	13.05	12.96	12.95
	Port 33	12.89	13.22	12.98	12.90
	Port 34	12.98	12.76	13.21	12.74
	Port 35	12.81	12.92	12.71	12.70
	Port 36	13.33	13.39	13.54	12.88
	Port 37	13.18	13.01	13.35	12.69
	Port 38	12.91	13.20	13.02	13.77
	Port 39	12.88	12.84	13.02	12.87
	Port 40	12.60	13.01	12.73	13.07
	Port 41	13.48	13.48	13.62	13.19
	Port 42	12.64	12.97	12.87	13.10

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REPORT No.:
CTK-2026-01690
Page (150) / (169) pages

	Port 43	13.16	12.89	13.30	12.76
	Port 44	13.35	13.14	13.59	13.07
	Port 45	12.74	13.08	12.95	13.70
	Port 46	13.00	12.80	13.24	12.74
	Port 47	12.88	13.16	13.09	13.77
	Port 48	12.75	13.24	13.05	13.73
	Port 49	13.39	13.23	13.42	13.07
	Port 50	13.23	12.98	13.36	12.88
	Port 51	13.31	13.08	13.57	13.04
	Port 52	13.14	12.90	13.44	12.78
	Port 53	13.28	13.15	13.56	13.00
	Port 54	13.05	12.79	13.17	12.63
	Port 55	13.10	12.93	13.33	12.72
	Port 56	13.20	13.00	13.26	12.91
	Port 57	13.03	12.90	13.27	12.79
	Port 58	12.78	13.02	12.86	13.62
	Port 59	12.88	13.17	13.01	13.66
	Port 60	12.80	13.14	13.06	13.60
	Port 61	13.46	13.18	13.52	13.11
	Port 62	12.98	12.77	13.21	12.51
	Port 63	12.84	13.12	13.22	13.66
Total Output Power (mW)		1278.49	1277.65	1313.30	1279.52
Total Output Power (dBm)		31.07	31.06	31.18	31.07
Antenna Gain (dBi)		14.45	14.45	14.45	14.45
Total MIMO EIRP (dBm)		45.52	45.51	45.63	45.52
Channel	Port	Conducted Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Mid	Port 0	12.98	13.10	12.91	12.88
	Port 1	13.08	13.03	13.23	12.89
	Port 2	12.92	13.02	13.11	12.82
	Port 3	12.82	12.89	12.94	12.89
	Port 4	13.44	13.29	13.37	13.11
	Port 5	13.09	13.08	13.08	13.05
	Port 6	12.98	13.00	13.02	12.91
	Port 7	12.89	12.91	12.95	12.76
	Port 8	12.93	12.84	12.72	12.64
	Port 9	12.93	12.71	12.72	12.59
	Port 10	12.94	12.99	12.97	12.90
	Port 11	12.94	12.87	12.82	12.77
	Port 12	13.38	13.35	13.06	13.10
	Port 13	13.09	13.09	12.95	12.95
	Port 14	12.98	12.71	12.65	12.64
	Port 15	12.96	12.72	12.66	12.57
	Port 16	13.09	13.11	13.00	13.03
	Port 17	12.89	13.19	13.16	13.16

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REPORT No.:
CTK-2026-01690
Page (151) / (169) pages

	Port 18	12.98	12.75	12.76	12.71
	Port 19	13.06	13.06	13.06	12.99
	Port 20	12.97	13.34	13.27	13.30
	Port 21	12.76	12.58	12.55	12.44
	Port 22	12.97	12.73	12.75	12.60
	Port 23	12.99	12.81	12.78	12.70
	Port 24	12.89	12.77	12.81	12.74
	Port 25	12.84	12.83	12.80	12.74
	Port 26	13.06	12.82	12.78	12.67
	Port 27	12.81	12.76	12.77	12.68
	Port 28	12.81	13.18	13.23	13.16
	Port 29	12.89	12.84	12.81	12.76
	Port 30	12.87	12.83	12.91	12.82
	Port 31	12.89	12.59	12.69	12.59
	Port 32	12.93	12.86	13.34	13.27
	Port 33	13.00	12.42	12.84	12.82
	Port 34	12.83	12.58	12.91	12.95
	Port 35	12.97	12.81	12.98	12.96
	Port 36	12.89	13.38	13.55	13.60
	Port 37	12.79	13.32	13.54	13.50
	Port 38	12.85	12.60	12.88	12.93
	Port 39	12.85	12.47	12.68	12.68
	Port 40	12.97	12.71	12.60	12.60
	Port 41	12.90	13.64	13.51	13.58
	Port 42	13.07	12.98	12.93	13.11
	Port 43	13.25	13.25	13.19	13.21
	Port 44	13.21	13.40	13.50	13.50
	Port 45	12.90	12.86	12.85	12.87
	Port 46	13.02	13.04	12.96	12.99
	Port 47	12.98	13.00	12.92	12.88
	Port 48	13.05	13.00	12.98	13.02
	Port 49	13.05	13.51	13.51	13.53
	Port 50	13.17	13.07	13.11	13.05
	Port 51	12.83	13.54	13.49	13.52
	Port 52	12.82	13.46	13.43	13.62
	Port 53	12.96	12.92	12.95	12.83
	Port 54	13.18	13.12	13.05	13.03
	Port 55	13.16	13.17	13.16	13.18
	Port 56	13.36	13.31	13.35	13.50
	Port 57	13.06	13.06	13.06	13.01
	Port 58	12.99	12.95	12.90	12.91
	Port 59	13.06	12.99	13.03	13.00
	Port 60	13.03	13.04	13.04	12.97
	Port 61	12.83	13.57	13.54	13.44
	Port 62	12.98	12.89	12.90	12.89

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REPORT No.:
CTK-2026-01690
Page (152) / (169) pages

	Port 63	12.99	12.92	13.00	12.88
Total Output Power (mW)		1273.28	1277.79	1283.72	1272.44
Total Output Power (dBm)		31.05	31.06	31.08	31.05
Antenna Gain (dBi)		14.45	14.45	14.45	14.45
Total MIMO EIRP (dBm)		45.50	45.51	45.53	45.50
Channel	Port	Conducted Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
High	Port 0	12.73	12.98	12.79	12.85
	Port 1	12.98	13.28	12.92	13.10
	Port 2	12.99	13.24	12.88	13.11
	Port 3	12.90	13.12	12.84	12.86
	Port 4	13.43	13.72	13.30	13.39
	Port 5	13.05	13.29	12.88	12.84
	Port 6	13.04	13.29	12.90	12.90
	Port 7	13.05	13.24	12.90	12.85
	Port 8	12.81	13.14	12.89	12.73
	Port 9	12.93	13.16	12.73	12.75
	Port 10	13.04	13.28	12.85	12.79
	Port 11	13.09	13.27	12.89	12.88
	Port 12	13.19	13.40	13.10	13.03
	Port 13	12.93	13.09	12.81	12.76
	Port 14	12.96	13.11	12.85	12.85
	Port 15	12.89	13.05	12.91	12.73
	Port 16	13.40	13.54	13.19	13.20
	Port 17	13.20	13.38	13.02	13.04
	Port 18	12.96	13.09	12.96	12.75
	Port 19	13.11	13.25	12.91	12.92
	Port 20	13.14	13.21	12.92	12.93
	Port 21	12.72	12.84	12.74	12.71
	Port 22	12.86	13.05	12.73	12.93
	Port 23	12.90	13.01	12.86	12.96
	Port 24	12.84	13.00	12.91	12.90
	Port 25	12.84	13.04	12.72	12.99
	Port 26	12.87	13.01	12.70	12.96
	Port 27	12.98	13.13	12.81	13.04
	Port 28	13.29	13.36	13.01	12.93
	Port 29	13.16	13.22	12.86	12.85
	Port 30	13.00	13.00	12.69	12.66
	Port 31	12.74	12.90	12.69	12.82
	Port 32	13.31	13.68	13.34	13.28
	Port 33	12.99	13.43	13.10	13.06
	Port 34	12.70	13.08	12.80	12.72
	Port 35	12.93	13.27	12.95	12.91
	Port 36	13.45	13.08	13.43	13.40
	Port 37	13.30	13.63	13.30	13.31



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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (153) / (169) pages

	Port 38	12.84	13.22	12.88	12.89
	Port 39	12.63	12.96	12.67	12.65
	Port 40	12.88	13.28	12.94	12.94
	Port 41	13.73	13.53	13.54	13.14
	Port 42	13.03	13.45	13.12	13.09
	Port 43	13.31	13.72	13.31	13.33
	Port 44	13.43	13.10	13.48	13.47
	Port 45	12.70	13.01	12.75	12.66
	Port 46	12.95	13.30	12.99	13.04
	Port 47	13.00	13.41	13.06	12.97
	Port 48	12.91	13.25	12.91	12.88
	Port 49	13.31	13.65	13.30	13.37
	Port 50	13.04	13.49	13.16	13.07
	Port 51	13.52	13.25	13.60	13.56
	Port 52	13.21	13.61	13.23	13.19
	Port 53	13.09	13.49	13.17	13.18
	Port 54	12.95	13.37	13.00	13.04
	Port 55	12.97	13.35	12.98	13.18
	Port 56	12.81	13.20	12.90	12.89
	Port 57	12.81	13.21	12.86	12.99
	Port 58	12.89	13.30	13.00	13.04
	Port 59	12.76	13.13	12.91	12.86
	Port 60	12.89	13.34	13.04	13.03
	Port 61	13.30	13.09	13.46	13.46
	Port 62	12.71	13.22	12.83	12.87
	Port 63	12.78	13.25	12.84	12.96
Total Output Power (mW)		1284.05	1354.33	1274.13	1275.94
Total Output Power (dBm)		31.09	31.32	31.05	31.06
Antenna Gain (dBi)		14.45	14.45	14.45	14.45
Total MIMO EIRP (dBm)		45.54	45.77	45.50	45.51

Table 10-1 Conducted Power Test Table (NR_n48_1C_10M)

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (154) / (169) pages

Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Low	Port 0	17.78	17.74
	Port 1	18.02	17.98
	Port 2	18.00	17.79
	Port 3	17.79	17.63
	Port 4	18.24	18.13
	Port 5	18.00	17.96
	Port 6	17.80	17.75
	Port 7	17.79	17.85
	Port 8	17.61	17.54
	Port 9	17.88	17.86
	Port 10	17.88	17.92
	Port 11	17.99	17.84
	Port 12	18.00	17.90
	Port 13	17.82	17.88
	Port 14	17.72	17.80
	Port 15	17.84	17.72
	Port 16	17.98	18.01
	Port 17	18.20	18.22
	Port 18	17.67	17.72
	Port 19	18.13	17.98
	Port 20	17.88	17.80
	Port 21	17.78	17.64
	Port 22	17.83	17.79
	Port 23	17.84	17.71
	Port 24	17.92	17.74
	Port 25	18.00	17.92
	Port 26	17.89	17.75
	Port 27	17.97	17.97
	Port 28	18.34	18.20
	Port 29	18.17	17.98
	Port 30	17.79	17.68
	Port 31	17.87	17.80
	Port 32	17.91	17.90
	Port 33	18.13	18.00
	Port 34	18.16	17.98
	Port 35	17.75	17.72
	Port 36	18.46	18.44
	Port 37	18.32	18.29
	Port 38	18.03	17.93
	Port 39	17.63	17.66
	Port 40	17.60	17.56
	Port 41	18.59	18.47
	Port 42	18.07	17.96



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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (155) / (169) pages

	Port 43	18.34	18.13
	Port 44	18.55	18.51
	Port 45	17.90	17.90
	Port 46	18.30	18.17
	Port 47	17.94	17.88
	Port 48	18.01	17.97
	Port 49	18.54	18.44
	Port 50	18.14	18.19
	Port 51	18.53	18.42
	Port 52	18.28	18.32
	Port 53	18.36	18.31
	Port 54	18.18	18.12
	Port 55	18.39	18.23
	Port 56	18.40	18.28
	Port 57	18.26	18.09
	Port 58	18.08	17.99
	Port 59	17.99	17.91
	Port 60	18.05	17.96
	Port 61	18.47	18.51
	Port 62	18.13	17.79
	Port 63	18.02	17.95
Total Output Power (mW)		4087.71	4018.09
Total Output Power (dBm)		36.11	36.04
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		50.56	50.49
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Mid	Port 0	17.88	17.90
	Port 1	17.98	18.19
	Port 2	17.92	17.79
	Port 3	17.71	17.64
	Port 4	18.22	18.16
	Port 5	18.02	18.12
	Port 6	17.90	18.02
	Port 7	17.80	17.76
	Port 8	17.69	17.66
	Port 9	17.65	17.81
	Port 10	17.86	17.78
	Port 11	17.83	17.77
	Port 12	18.06	18.22
	Port 13	18.01	18.14
	Port 14	17.77	17.80
	Port 15	17.64	17.55
	Port 16	18.03	17.96
	Port 17	18.10	18.14

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (156) / (169) pages

	Port 18	17.66	17.66
	Port 19	17.88	17.90
	Port 20	18.22	18.17
	Port 21	17.44	17.46
	Port 22	17.62	17.69
	Port 23	17.73	17.71
	Port 24	17.86	17.77
	Port 25	17.83	17.84
	Port 26	17.60	17.73
	Port 27	17.79	17.70
	Port 28	18.18	18.20
	Port 29	17.70	17.77
	Port 30	17.72	17.85
	Port 31	17.54	17.57
	Port 32	18.26	18.47
	Port 33	17.76	18.04
	Port 34	17.79	17.90
	Port 35	17.93	18.03
	Port 36	18.41	18.44
	Port 37	18.42	18.54
	Port 38	17.77	17.88
	Port 39	17.59	17.64
	Port 40	17.51	17.56
	Port 41	18.46	18.51
	Port 42	17.92	18.06
	Port 43	18.06	18.16
	Port 44	18.44	18.46
	Port 45	17.71	18.09
	Port 46	17.88	17.94
	Port 47	17.79	17.99
	Port 48	17.87	18.08
	Port 49	18.44	18.58
	Port 50	17.92	18.08
	Port 51	18.38	18.58
	Port 52	18.41	18.38
	Port 53	17.72	17.94
	Port 54	17.91	18.19
	Port 55	18.02	18.19
	Port 56	18.14	18.40
	Port 57	17.92	18.07
	Port 58	17.75	18.05
	Port 59	17.70	17.94
	Port 60	17.81	18.08
	Port 61	18.40	18.44
	Port 62	17.70	17.97

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (157) / (169) pages

	Port 63	17.75	18.03
Total Output Power (mW)		3964.33	4048.45
Total Output Power (dBm)		35.98	36.07
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		50.43	50.52
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
High	Port 0	17.38	17.34
	Port 1	17.38	17.45
	Port 2	17.65	17.43
	Port 3	17.43	17.36
	Port 4	17.89	17.64
	Port 5	17.38	17.28
	Port 6	17.63	17.43
	Port 7	17.51	17.19
	Port 8	17.48	17.31
	Port 9	17.55	17.36
	Port 10	17.51	17.40
	Port 11	17.58	17.25
	Port 12	17.65	17.38
	Port 13	17.47	17.33
	Port 14	17.45	17.41
	Port 15	17.38	17.18
	Port 16	17.69	17.35
	Port 17	17.74	17.51
	Port 18	17.48	17.33
	Port 19	17.76	17.18
	Port 20	17.55	17.19
	Port 21	17.25	17.13
	Port 22	17.47	17.20
	Port 23	17.46	17.23
	Port 24	17.38	17.24
	Port 25	17.44	17.41
	Port 26	17.53	17.25
	Port 27	17.53	17.26
	Port 28	17.70	17.60
	Port 29	17.75	17.40
	Port 30	17.53	17.22
	Port 31	17.41	17.09
	Port 32	18.05	17.82
	Port 33	17.50	17.45
	Port 34	17.33	17.30
	Port 35	17.57	17.51
	Port 36	18.09	18.07
	Port 37	17.85	17.96



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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (158) / (169) pages

	Port 38	17.58	17.54
	Port 39	17.38	17.21
	Port 40	17.52	17.32
	Port 41	18.36	18.40
	Port 42	17.64	17.55
	Port 43	18.07	17.76
	Port 44	17.91	17.82
	Port 45	17.43	17.39
	Port 46	17.77	17.28
	Port 47	17.74	17.44
	Port 48	17.56	17.38
	Port 49	18.08	17.81
	Port 50	17.92	17.56
	Port 51	18.31	17.94
	Port 52	18.01	17.76
	Port 53	17.93	17.53
	Port 54	17.79	17.52
	Port 55	17.80	17.37
	Port 56	17.32	17.61
	Port 57	17.29	17.54
	Port 58	17.28	17.35
	Port 59	17.76	17.24
	Port 60	17.67	17.35
	Port 61	17.71	17.84
	Port 62	17.66	17.25
	Port 63	17.80	17.46
Total Output Power (mW)		3719.06	3561.88
Total Output Power (dBm)		35.70	35.52
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		50.15	49.97

Table 10-2 Conducted Power Test Table (NR_n48_2C_10M+20M)

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REPORT No.:
CTK-2026-01690
Page (159) / (169) pages

Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Low	Port 0	20.25	19.91
	Port 1	20.46	20.12
	Port 2	20.34	20.00
	Port 3	20.04	19.73
	Port 4	20.65	20.35
	Port 5	20.32	19.96
	Port 6	20.32	19.90
	Port 7	20.25	19.91
	Port 8	19.94	19.67
	Port 9	20.20	19.88
	Port 10	20.43	20.13
	Port 11	20.24	19.97
	Port 12	20.28	19.99
	Port 13	20.34	20.02
	Port 14	20.22	19.89
	Port 15	20.04	19.79
	Port 16	20.48	20.18
	Port 17	20.68	20.37
	Port 18	20.12	19.82
	Port 19	20.31	20.11
	Port 20	20.37	20.04
	Port 21	20.05	19.80
	Port 22	20.22	19.97
	Port 23	20.12	19.77
	Port 24	20.20	19.96
	Port 25	20.36	20.07
	Port 26	20.25	19.95
	Port 27	20.30	20.01
	Port 28	20.67	20.35
	Port 29	20.43	20.09
	Port 30	20.18	19.76
	Port 31	20.14	19.74
	Port 32	20.55	20.28
	Port 33	20.45	20.17
	Port 34	20.41	20.16
	Port 35	20.26	19.91
	Port 36	20.38	20.64
	Port 37	20.89	20.52
	Port 38	20.48	20.09
	Port 39	20.05	19.78
	Port 40	20.05	19.74
	Port 41	20.89	20.58
	Port 42	20.51	20.21

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (160) / (169) pages

	Port 43	20.62	20.33
	Port 44	20.62	20.35
	Port 45	20.35	20.01
	Port 46	20.63	20.38
	Port 47	20.35	20.01
	Port 48	20.49	20.18
	Port 49	20.91	20.61
	Port 50	20.58	20.25
	Port 51	20.90	20.61
	Port 52	20.87	20.58
	Port 53	20.74	20.37
	Port 54	20.57	20.29
	Port 55	20.69	20.37
	Port 56	20.74	20.53
	Port 57	20.47	20.25
	Port 58	20.49	20.10
	Port 59	20.33	19.96
	Port 60	20.43	20.17
	Port 61	20.44	20.78
	Port 62	20.21	19.93
	Port 63	20.46	20.14
Total Output Power (mW)		7038.08	6586.88
Total Output Power (dBm)		38.47	38.19
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		52.92	52.64
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Mid	Port 0	19.57	19.60
	Port 1	19.67	19.83
	Port 2	19.60	19.59
	Port 3	19.33	19.38
	Port 4	19.99	19.98
	Port 5	19.53	19.52
	Port 6	19.56	19.56
	Port 7	19.53	19.54
	Port 8	19.39	19.39
	Port 9	19.43	19.38
	Port 10	19.60	19.61
	Port 11	19.52	19.52
	Port 12	19.73	19.74
	Port 13	19.63	19.75
	Port 14	19.47	19.51
	Port 15	19.35	19.34
	Port 16	19.64	19.70
	Port 17	19.76	19.80

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (161) / (169) pages

	Port 18	19.40	19.49
	Port 19	19.63	19.67
	Port 20	19.88	19.85
	Port 21	19.13	19.11
	Port 22	19.38	19.48
	Port 23	19.32	19.36
	Port 24	19.49	19.48
	Port 25	19.48	19.53
	Port 26	19.42	19.35
	Port 27	19.56	19.65
	Port 28	19.86	19.88
	Port 29	19.43	19.40
	Port 30	19.43	19.51
	Port 31	19.24	19.22
	Port 32	20.01	19.98
	Port 33	19.48	19.51
	Port 34	19.55	19.59
	Port 35	19.72	19.70
	Port 36	20.25	20.34
	Port 37	20.15	20.17
	Port 38	19.62	19.60
	Port 39	19.35	19.29
	Port 40	19.35	19.08
	Port 41	20.23	20.22
	Port 42	19.72	19.67
	Port 43	19.82	19.75
	Port 44	20.16	20.12
	Port 45	19.47	19.53
	Port 46	19.69	19.65
	Port 47	19.58	19.52
	Port 48	19.66	19.61
	Port 49	20.16	20.16
	Port 50	19.78	19.89
	Port 51	20.16	20.33
	Port 52	20.21	20.17
	Port 53	19.68	19.59
	Port 54	19.86	19.93
	Port 55	19.86	19.82
	Port 56	19.99	20.08
	Port 57	19.72	19.72
	Port 58	19.62	19.65
	Port 59	19.61	19.74
	Port 60	19.55	19.57
	Port 61	20.17	20.19
	Port 62	19.45	19.47

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Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01690
Page (162) / (169) pages

	Port 63	19.64	19.57
Total Output Power (mW)		5928.94	5945.45
Total Output Power (dBm)		37.73	37.74
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		52.18	52.19
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
High	Port 0	19.62	19.60
	Port 1	19.78	19.75
	Port 2	19.79	19.77
	Port 3	19.68	19.67
	Port 4	20.22	20.39
	Port 5	19.85	19.75
	Port 6	19.91	19.74
	Port 7	19.78	19.77
	Port 8	19.69	19.68
	Port 9	19.66	19.86
	Port 10	19.87	19.79
	Port 11	19.90	19.89
	Port 12	20.02	20.11
	Port 13	19.73	19.72
	Port 14	19.97	19.76
	Port 15	19.56	19.64
	Port 16	19.97	20.02
	Port 17	20.00	20.00
	Port 18	19.71	19.65
	Port 19	19.98	19.87
	Port 20	20.07	19.95
	Port 21	19.59	19.47
	Port 22	19.63	19.68
	Port 23	19.52	19.52
	Port 24	19.70	19.60
	Port 25	19.65	19.60
	Port 26	19.64	19.63
	Port 27	19.79	19.71
	Port 28	20.20	20.07
	Port 29	19.75	19.67
	Port 30	19.62	19.61
	Port 31	19.41	19.38
	Port 32	20.34	20.26
	Port 33	19.76	19.75
	Port 34	19.67	19.55
	Port 35	19.95	19.88
	Port 36	20.49	20.55
	Port 37	20.36	20.26



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Tel: +82-1551-9871
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REPORT No.:
CTK-2026-01690
Page (163) / (169) pages

	Port 38	19.93	19.84
	Port 39	19.63	19.58
	Port 40	19.69	19.67
	Port 41	20.75	20.86
	Port 42	20.15	20.08
	Port 43	20.34	20.31
	Port 44	20.33	20.35
	Port 45	19.77	19.75
	Port 46	20.03	19.84
	Port 47	19.96	19.96
	Port 48	19.94	19.97
	Port 49	20.41	20.39
	Port 50	20.10	20.14
	Port 51	20.56	20.44
	Port 52	20.40	20.33
	Port 53	20.05	20.05
	Port 54	20.02	20.06
	Port 55	20.06	19.99
	Port 56	20.07	20.06
	Port 57	19.91	19.84
	Port 58	19.89	19.94
	Port 59	19.78	19.77
	Port 60	19.93	19.80
	Port 61	20.31	20.35
	Port 62	19.78	19.72
	Port 63	19.84	19.83
Total Output Power (mW)		6309.37	6266.08
Total Output Power (dBm)		38.00	37.97
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		52.45	52.42

Table 10-3 Conducted Power Test Table (NR_n48_3C_10M+20M+20M)

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REPORT No.:
CTK-2026-01690
Page (164) / (169) pages

Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Low	Port 0	21.00	21.16
	Port 1	21.17	21.37
	Port 2	21.04	21.29
	Port 3	20.87	20.96
	Port 4	21.32	21.61
	Port 5	21.07	21.25
	Port 6	20.98	21.17
	Port 7	20.98	20.99
	Port 8	20.71	20.77
	Port 9	21.00	21.07
	Port 10	21.19	21.31
	Port 11	21.03	21.25
	Port 12	21.06	21.24
	Port 13	21.10	21.19
	Port 14	20.99	21.23
	Port 15	20.82	20.96
	Port 16	21.21	21.26
	Port 17	21.39	21.53
	Port 18	20.89	20.89
	Port 19	21.14	21.15
	Port 20	21.17	21.18
	Port 21	20.78	21.01
	Port 22	20.94	21.06
	Port 23	20.83	20.89
	Port 24	21.05	21.15
	Port 25	21.04	21.24
	Port 26	20.95	21.05
	Port 27	21.09	21.10
	Port 28	21.36	21.60
	Port 29	21.14	21.27
	Port 30	20.83	20.88
	Port 31	20.84	20.89
	Port 32	21.37	21.54
	Port 33	21.16	21.44
	Port 34	21.15	21.28
	Port 35	20.99	21.16
	Port 36	21.71	21.71
	Port 37	21.57	21.74
	Port 38	21.12	21.28
	Port 39	20.88	20.94
	Port 40	20.73	20.80
	Port 41	21.67	21.51
	Port 42	21.27	21.24



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REPORT No.:
CTK-2026-01690
Page (165) / (169) pages

	Port 43	21.39	21.40
	Port 44	21.43	21.55
	Port 45	21.10	21.15
	Port 46	21.39	21.54
	Port 47	21.04	21.12
	Port 48	21.22	21.37
	Port 49	21.77	21.54
	Port 50	21.35	21.33
	Port 51	21.63	21.69
	Port 52	21.65	21.62
	Port 53	21.39	21.57
	Port 54	21.37	21.31
	Port 55	21.49	21.47
	Port 56	21.55	21.63
	Port 57	21.19	21.43
	Port 58	21.16	21.21
	Port 59	21.07	21.07
	Port 60	21.21	21.27
	Port 61	21.80	21.79
	Port 62	20.94	21.03
	Port 63	21.20	21.16
Total Output Power (mW)		8395.88	8574.81
Total Output Power (dBm)		39.24	39.33
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		53.69	53.78
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
Mid	Port 0	20.52	20.81
	Port 1	20.64	20.95
	Port 2	20.53	20.82
	Port 3	20.38	20.63
	Port 4	20.81	21.31
	Port 5	20.58	20.84
	Port 6	20.60	20.90
	Port 7	20.54	20.75
	Port 8	20.34	20.71
	Port 9	20.39	20.72
	Port 10	20.66	20.91
	Port 11	20.60	20.88
	Port 12	20.75	21.12
	Port 13	20.61	20.93
	Port 14	20.51	20.79
	Port 15	20.44	20.65
	Port 16	20.70	20.97
	Port 17	20.81	21.24

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REPORT No.:
CTK-2026-01690
Page (166) / (169) pages

	Port 18	20.46	20.73
	Port 19	20.71	20.87
	Port 20	20.88	21.15
	Port 21	20.20	20.47
	Port 22	20.43	20.71
	Port 23	20.44	20.67
	Port 24	20.59	20.74
	Port 25	20.55	20.82
	Port 26	20.49	20.69
	Port 27	20.65	20.79
	Port 28	21.01	21.16
	Port 29	20.55	20.72
	Port 30	20.54	20.76
	Port 31	20.25	20.48
	Port 32	21.02	21.29
	Port 33	20.39	20.84
	Port 34	20.43	20.88
	Port 35	20.54	21.03
	Port 36	21.18	21.65
	Port 37	21.09	21.50
	Port 38	20.56	20.96
	Port 39	20.27	20.68
	Port 40	20.39	20.60
	Port 41	21.35	21.58
	Port 42	20.76	20.99
	Port 43	20.51	21.11
	Port 44	21.20	21.39
	Port 45	20.66	20.80
	Port 46	20.78	21.06
	Port 47	20.63	20.87
	Port 48	20.73	20.64
	Port 49	21.35	21.63
	Port 50	20.97	21.06
	Port 51	21.32	21.45
	Port 52	21.29	21.48
	Port 53	20.78	20.99
	Port 54	20.98	21.15
	Port 55	21.01	21.18
	Port 56	21.12	21.32
	Port 57	20.79	21.04
	Port 58	20.79	20.95
	Port 59	20.74	20.93
	Port 60	20.70	20.92
	Port 61	21.33	21.51
	Port 62	20.69	20.79

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REPORT No.:
CTK-2026-01690
Page (167) / (169) pages

	Port 63	20.73	20.93
Total Output Power (mW)		7547.76	8013.32
Total Output Power (dBm)		38.78	39.04
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		53.23	53.49
Channel	Port	Conducted Output Power (dBm)	
		QPSK	16QAM
High	Port 0	20.54	20.52
	Port 1	20.70	20.60
	Port 2	20.66	20.62
	Port 3	20.49	20.49
	Port 4	21.04	21.21
	Port 5	20.61	20.65
	Port 6	20.72	20.64
	Port 7	20.61	20.55
	Port 8	20.60	20.52
	Port 9	20.59	20.53
	Port 10	20.70	20.69
	Port 11	20.83	20.73
	Port 12	20.95	21.03
	Port 13	20.65	20.63
	Port 14	20.65	20.55
	Port 15	20.59	20.50
	Port 16	20.93	20.88
	Port 17	20.96	20.91
	Port 18	20.69	20.59
	Port 19	20.90	20.70
	Port 20	20.92	20.90
	Port 21	20.40	20.37
	Port 22	20.57	20.48
	Port 23	20.47	20.41
	Port 24	20.53	20.50
	Port 25	20.50	20.43
	Port 26	20.54	20.52
	Port 27	20.63	20.52
	Port 28	21.03	21.01
	Port 29	20.64	20.53
	Port 30	20.48	20.42
	Port 31	20.31	20.21
	Port 32	21.09	21.11
	Port 33	20.59	20.62
	Port 34	20.45	20.52
	Port 35	20.85	20.99
	Port 36	21.37	21.35
	Port 37	21.15	21.17



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REPORT No.:
CTK-2026-01690
Page (168) / (169) pages

	Port 38	20.71	20.75
	Port 39	20.42	20.49
	Port 40	20.58	20.53
	Port 41	21.59	21.50
	Port 42	20.93	20.86
	Port 43	21.16	21.16
	Port 44	21.26	21.13
	Port 45	20.61	20.61
	Port 46	20.77	20.76
	Port 47	20.82	20.75
	Port 48	20.87	20.79
	Port 49	21.33	21.28
	Port 50	21.05	20.92
	Port 51	21.38	21.36
	Port 52	21.35	21.32
	Port 53	20.93	20.83
	Port 54	21.07	20.90
	Port 55	20.95	20.88
	Port 56	21.07	21.01
	Port 57	20.85	20.79
	Port 58	20.83	20.71
	Port 59	20.72	20.66
	Port 60	20.73	20.69
	Port 61	21.26	21.22
	Port 62	20.72	20.63
	Port 63	20.72	20.61
Total Output Power (mW)		7721.89	7643.21
Total Output Power (dBm)		38.88	38.83
Antenna Gain (dBi)		14.45	14.45
Total MIMO EIRP (dBm)		53.33	53.28

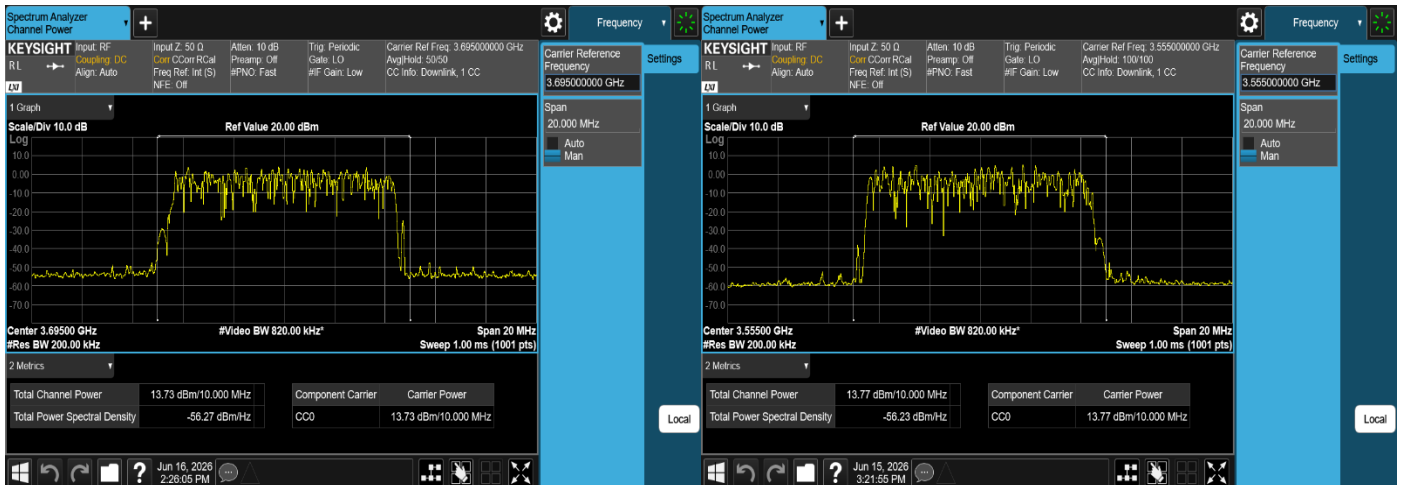
Table 10-4 Conducted Power Test Table (NR_n48_3C_10M+20M+40M)



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REPORT No.:
CTK-2026-01690
Page (169) / (169) pages



End