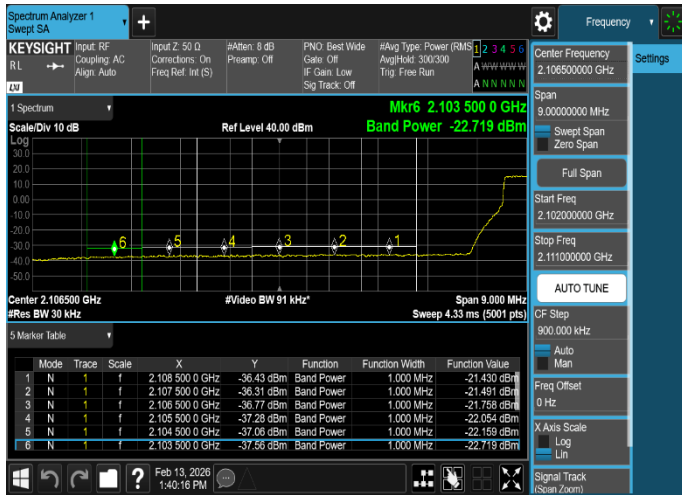




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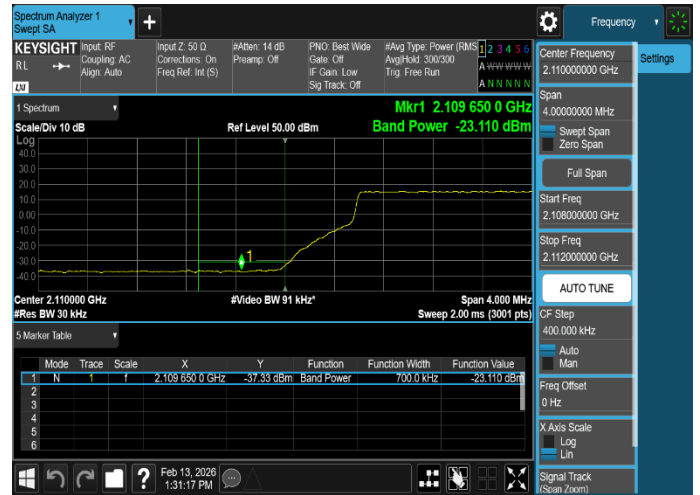
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REPORT No.:
CTK-2026-00647
Page (67) / (97) pages



Plot 8-85. Conducted Spurious Emission Plot
2.103 GHz to 2.109 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



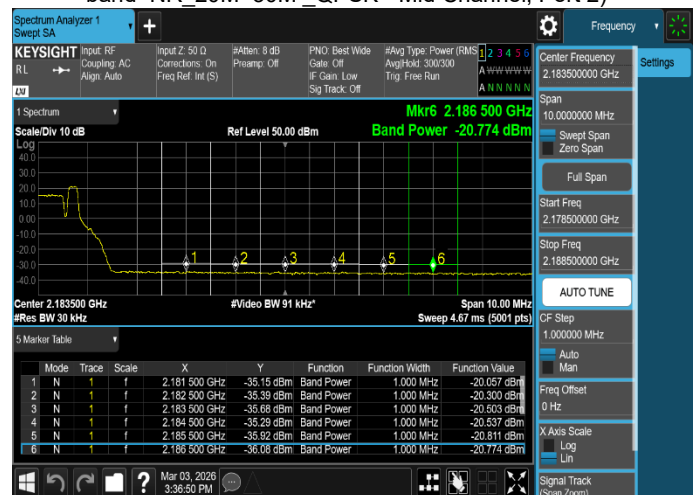
Plot 8-86. Conducted Spurious Emission Plot
2.109 GHz to 2.110 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



Plot 8-87. Conducted Spurious Emission Plot
2.18 GHz to 2.181 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



Plot 8-88. Conducted Spurious Emission Plot
2.181 GHz to 2.187 GHz

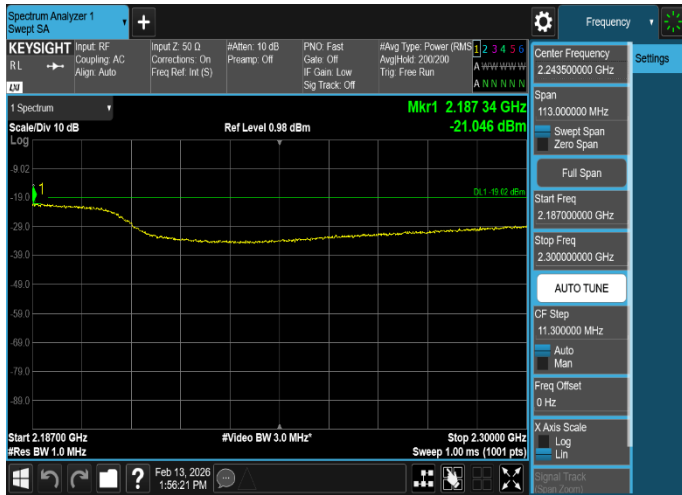
(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



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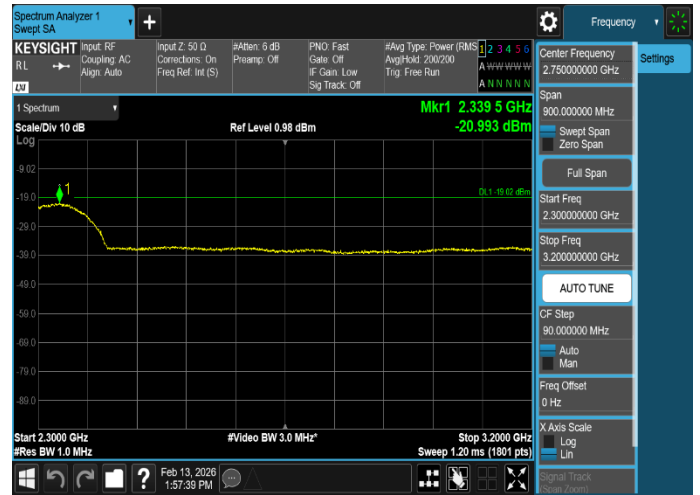
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REPORT No.:
CTK-2026-00647
Page (68) / (97) pages



Plot 8-89. Conducted Spurious Emission Plot
2.187 GHz to 2.3 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



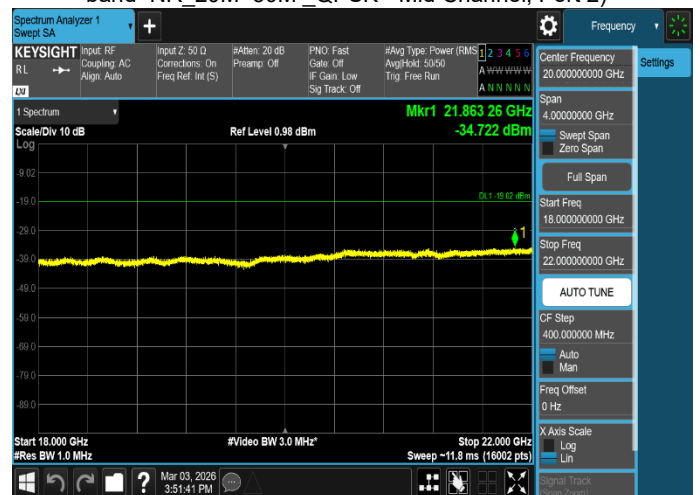
Plot 8-90. Conducted Spurious Emission Plot
2.3 GHz to 3.2 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



Plot 8-91. Conducted Spurious Emission Plot
3.2 GHz to 18 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)



Plot 8-92. Conducted Spurious Emission Plot
18 GHz to 22 GHz

(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+
NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard
band+NR_20M+30M_QPSK - Mid Channel, Port 2)

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REPORT No.:
CTK-2026-00647
Page (69) / (97) pages

8.7 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 = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1GHz
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

§ 24.238

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§ 27.53

(1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

Test Setup

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

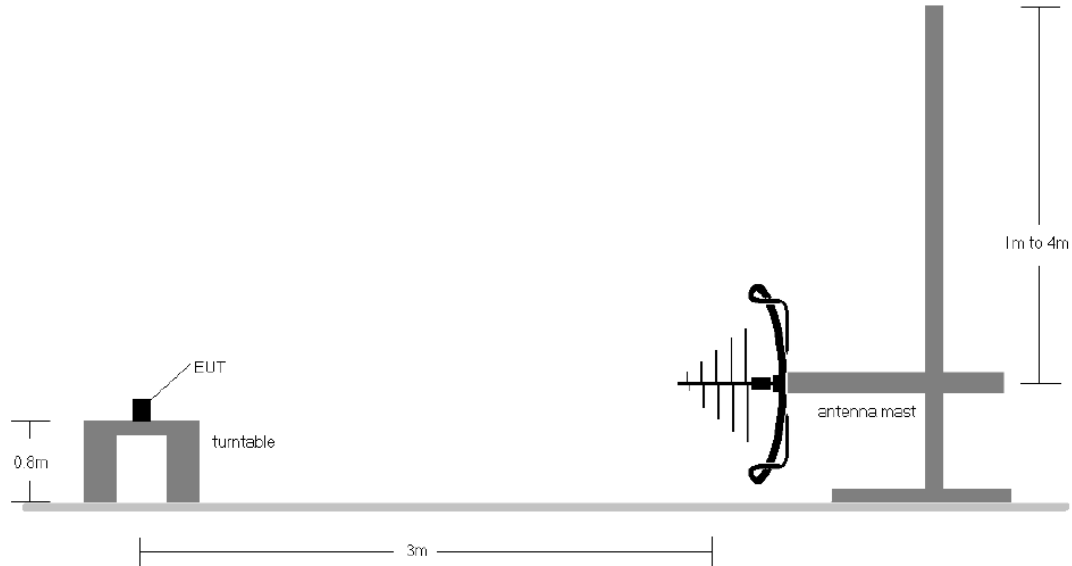


Figure 8-6. Test Instrument & Measurement Setup 30 MHz to 1GHz

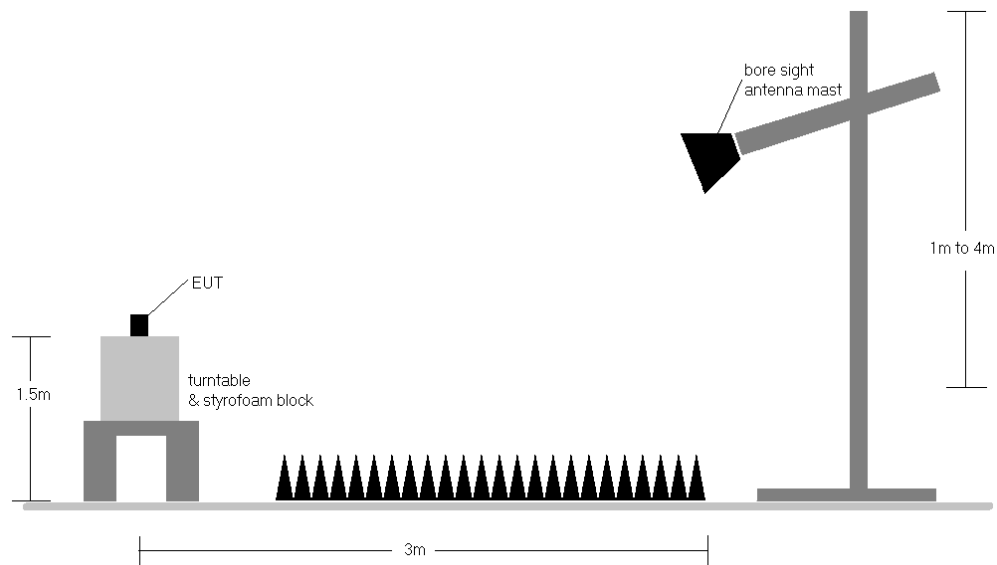


Figure 8-7. Test Instrument & Measurement Setup 1 GHz to 18 GHz

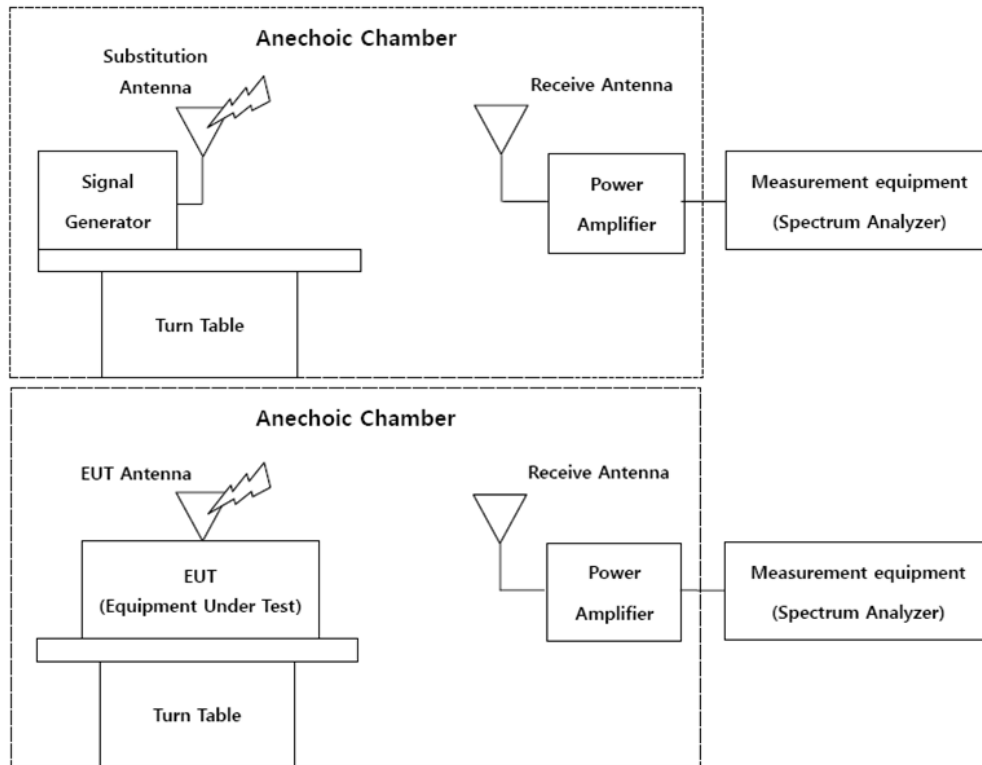


Figure 8-8. Test Instrument & Measurement Setup 18 GHz to 22 GHz

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CTK-2026-00647
Page (72) / (97) 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

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 62.0 \text{ [dB}\mu\text{V/m]} - 12.3 \text{ [dB/m]} = 49.7 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 49.7 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -45.6 \text{ dBm}\end{aligned}$$

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**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -48.5 \text{ dBm} - 8.1 \\ &= -56.6 \text{ dBm}\end{aligned}$$

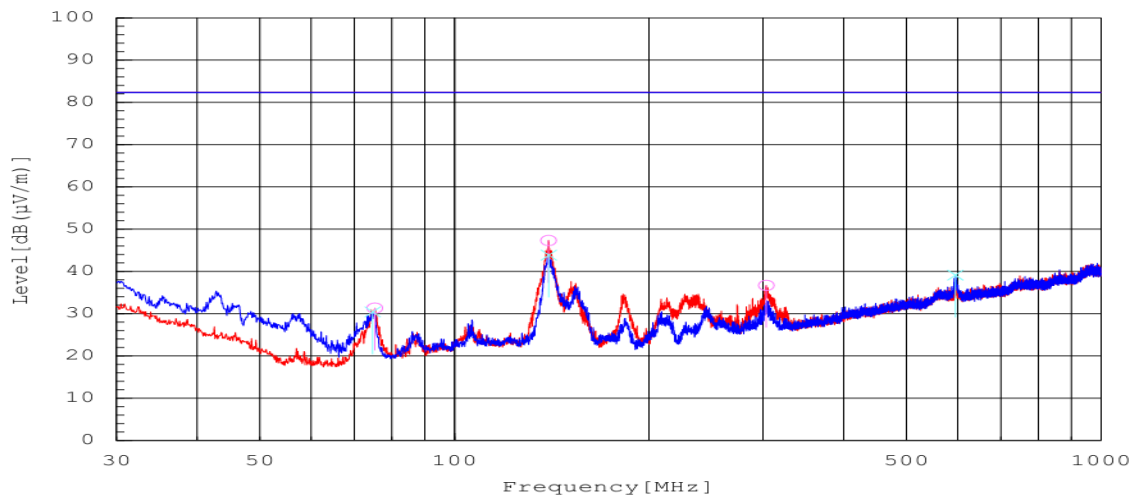
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from 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.



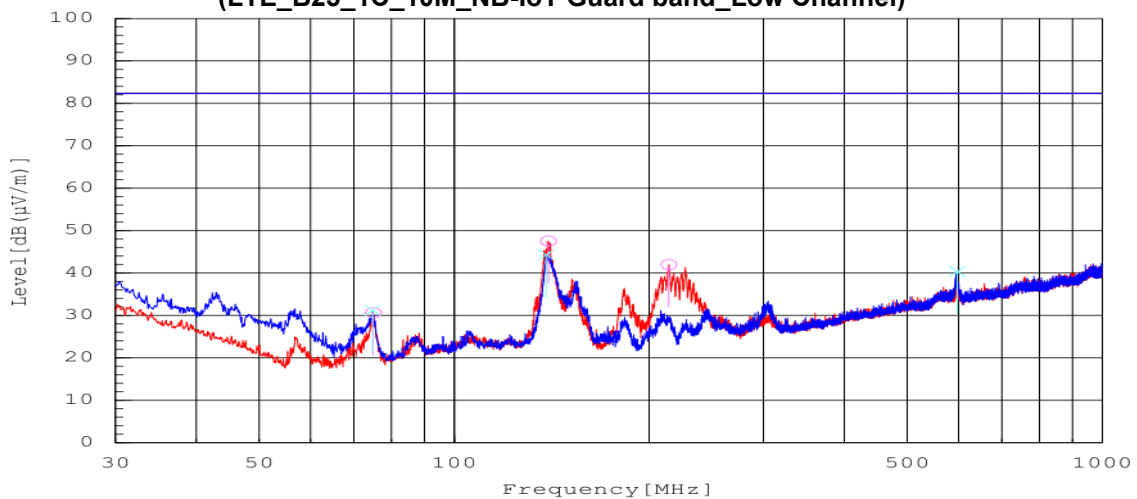
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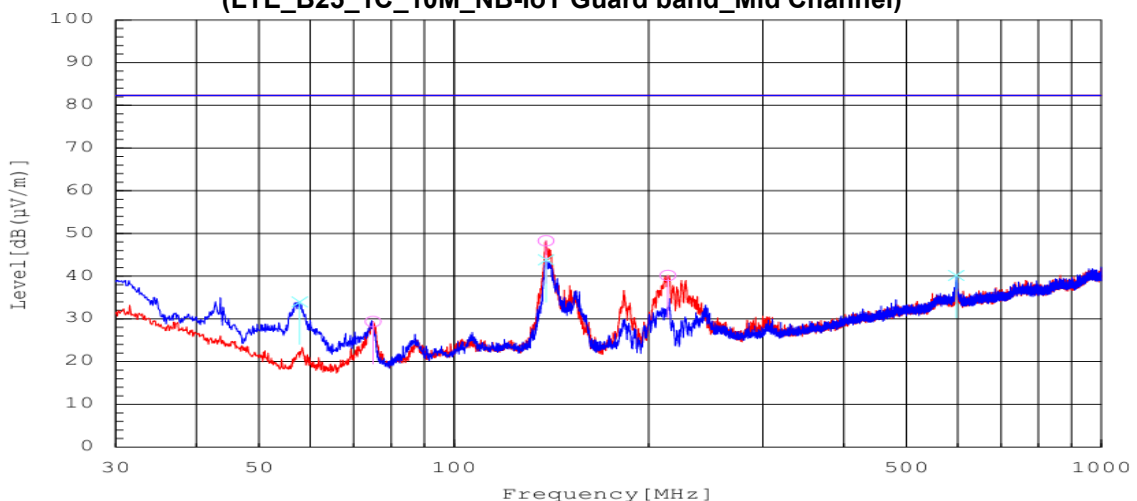
REPORT No.:
CTK-2026-00647
Page (73) / (97) pages



**Plot 8-93. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_10M_NB-IoT Guard band_Low Channel)**



**Plot 8-94. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_10M_NB-IoT Guard band_Mid Channel)**



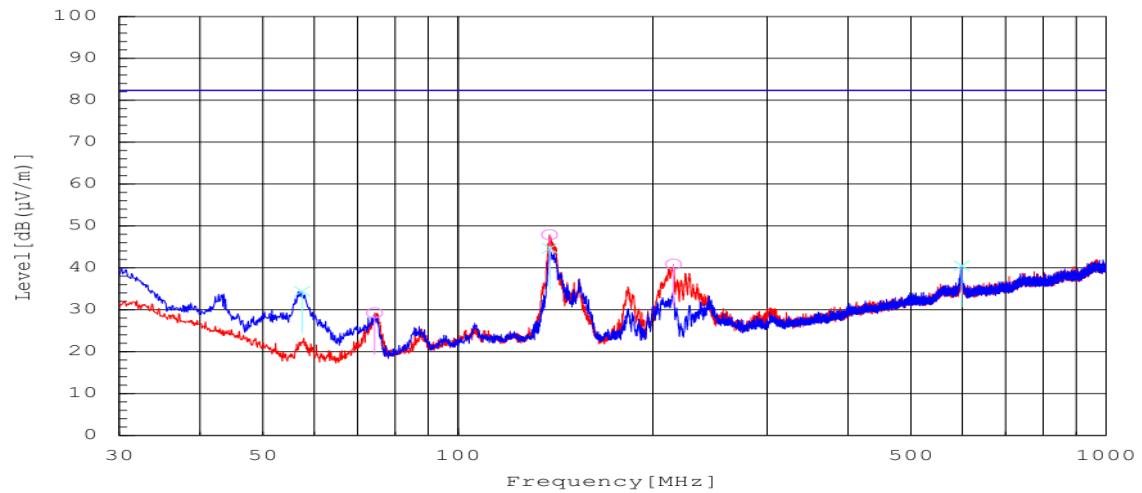
**Plot 8-95. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_10M_NB-IoT Guard band_High Channel)**



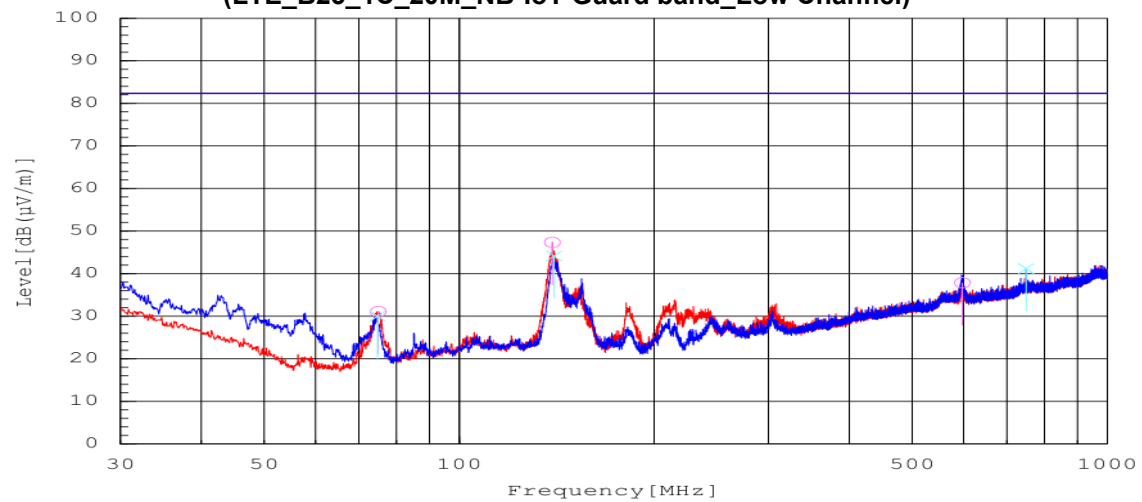
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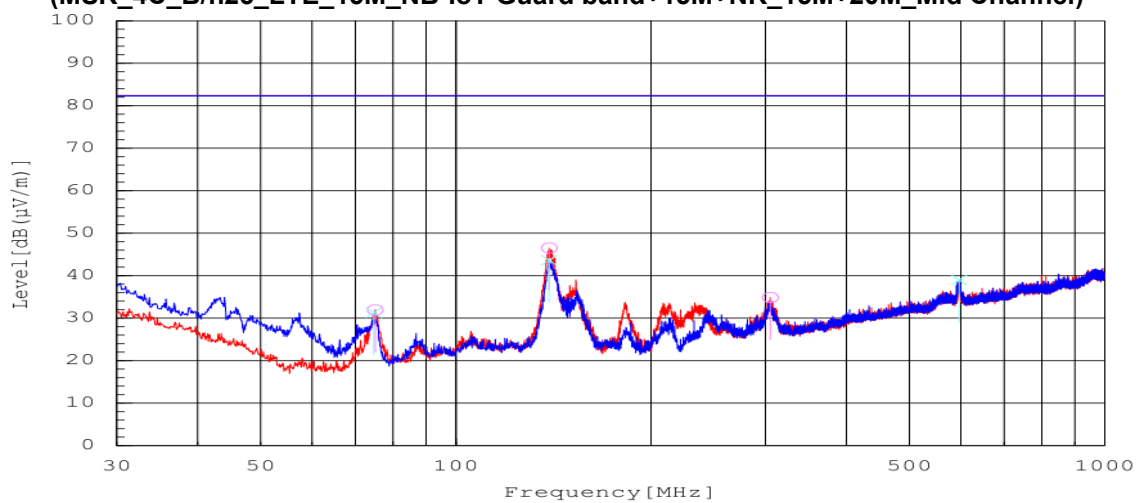
REPORT No.:
CTK-2026-00647
Page (74) / (97) pages



**Plot 8-96. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B25_1C_20M_NB-IoT Guard band_Low Channel)**



**Plot 8-97. Radiated spurious emission Plot_30 MHz to 1000 MHz
(MSR_4C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M_Mid Channel)**



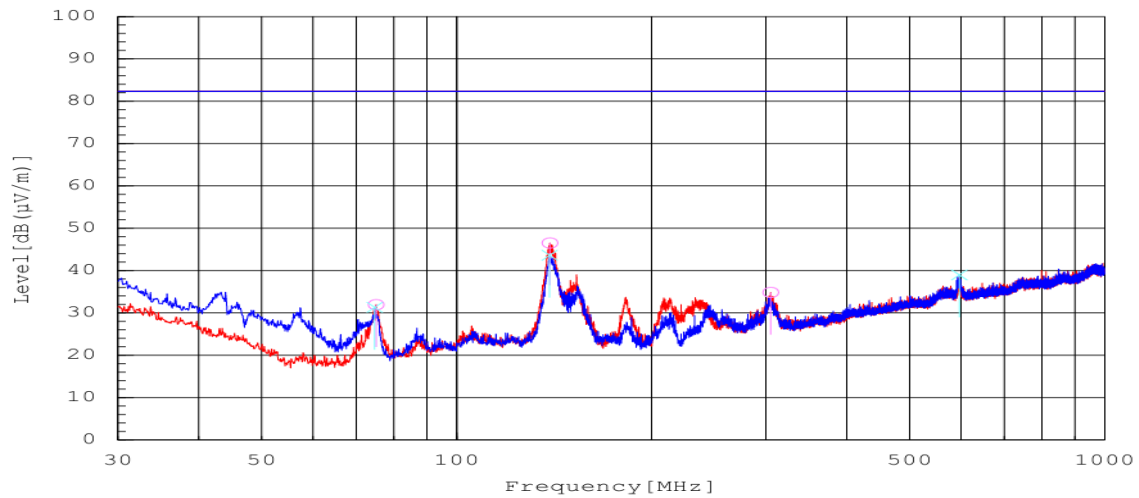
**Plot 8-98. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_10M_NB-IoT Guard band_Low Channel)**



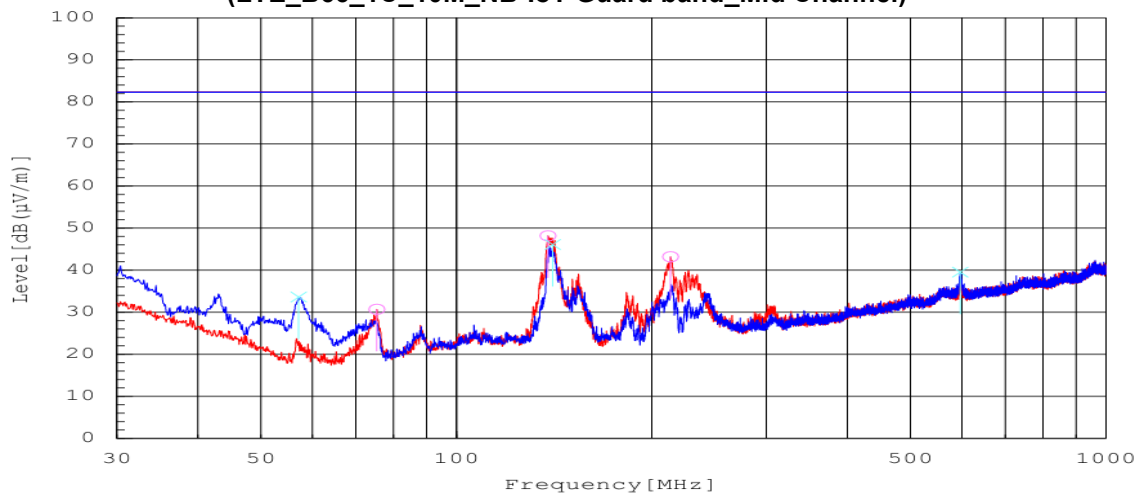
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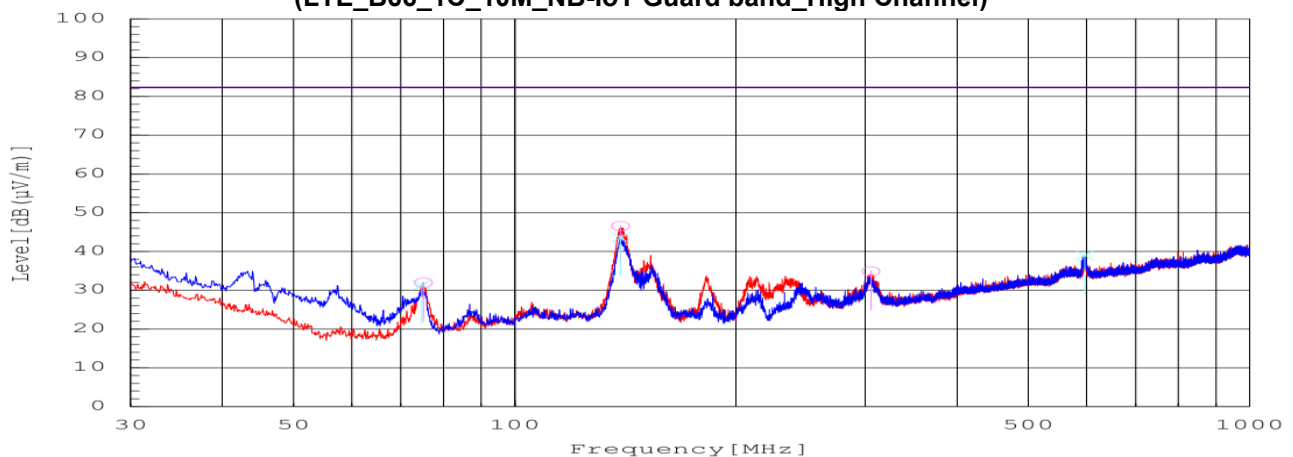
REPORT No.:
CTK-2026-00647
Page (75) / (97) pages



**Plot 8-99. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_10M_NB-IoT Guard band_Mid Channel)**



**Plot 8-100. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_10M_NB-IoT Guard band_High Channel)**



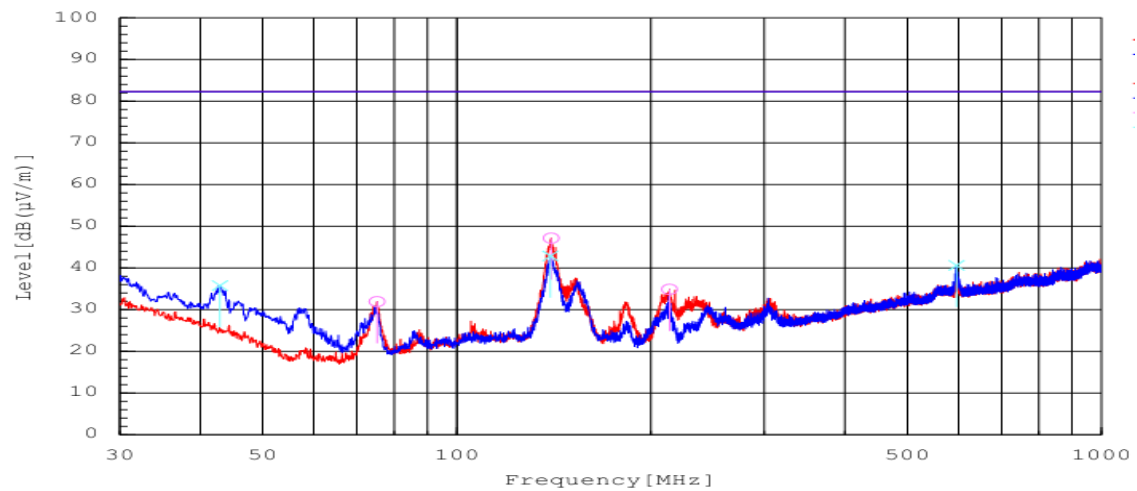
**Plot 8-101. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_1C_20M_NB-IoT Guard band_Low Channel)**



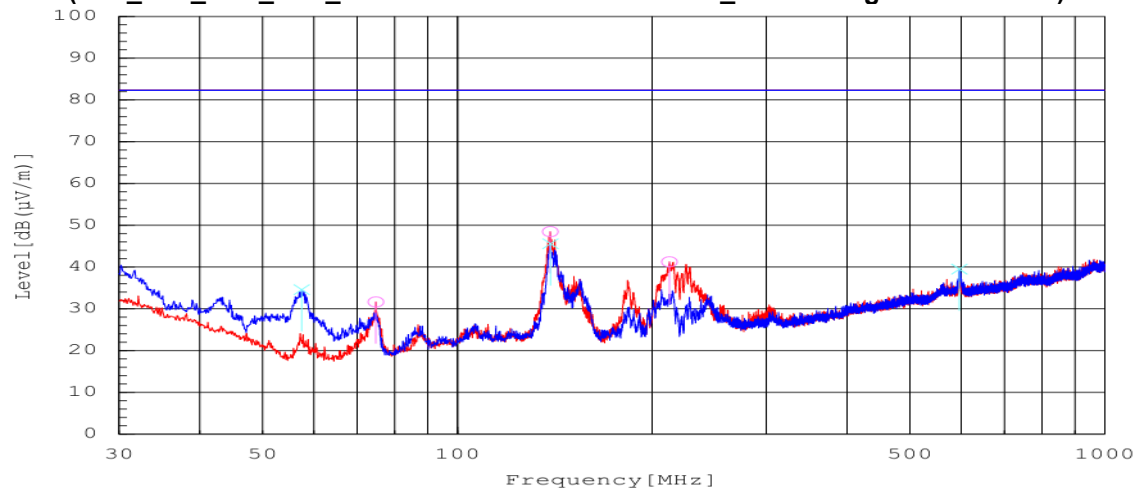
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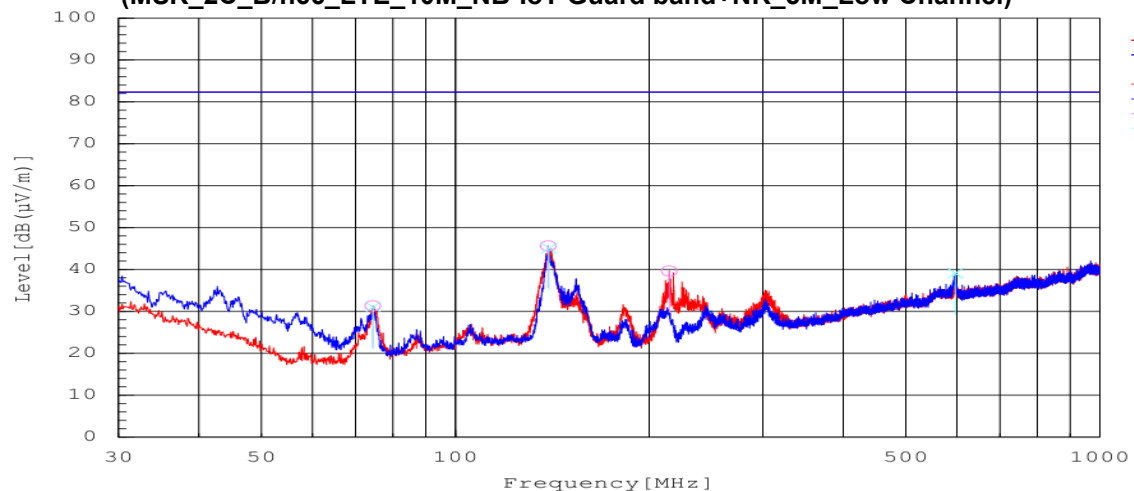
REPORT No.:
CTK-2026-00647
Page (76) / (97) pages



**Plot 8-102. Radiated spurious emission Plot_30 MHz to 1000 MHz
(LTE_B66_3NC_20M_NB-IoT Guard band+20M+20M_Non-Contiguous Channel)**



**Plot 8-103. Radiated spurious emission Plot_30 MHz to 1000 MHz
(MSR_2C_B/n66_LTE_10M_NB-IoT Guard band+NR_5M_Low Channel)**



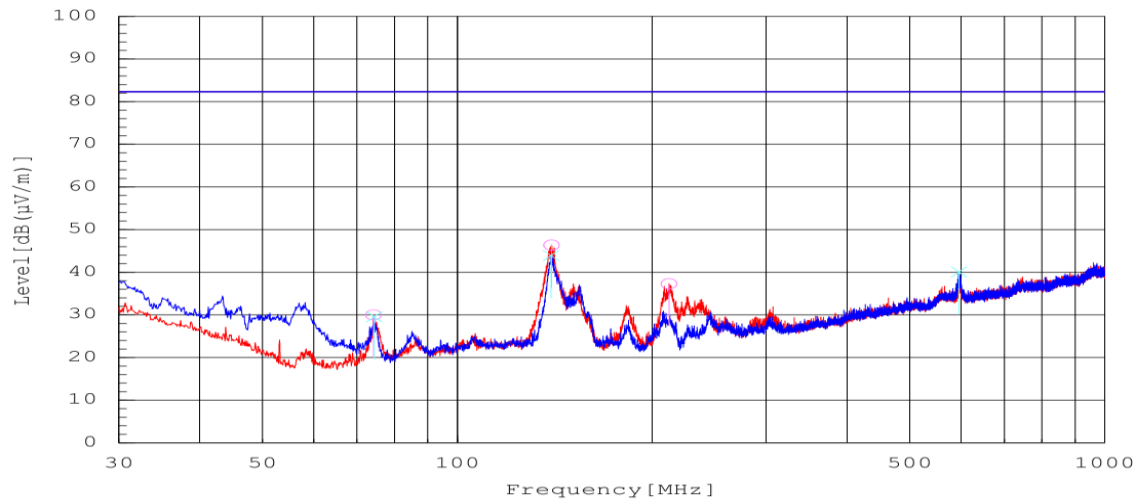
**Plot 8-104. Radiated spurious emission Plot_30 MHz to 1000 MHz
(Multi Band_2C_B25_LTE_10M_NB-IoT Guard band+B66_LTE_10M_NB-IoT Guard band_Mid Channel)**



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REPORT No.:
CTK-2026-00647
Page (77) / (97) pages



Plot 8-105. Radiated spurious emission Plot_30 MHz to 1000 MHz
(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M+B/n66_LTE_20M_NB-IoT
Guard band+NR_20M+30M_Mid Channel)

Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dB/μV/m]	AFCL [dB]	Field Strength [dB/μV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna Height [cm]	Turntable azimuth [degree]
LTE_B66_1C_10M_NB-IoT Guard band_Mid Channel	139.13	H	62.0	-12.3	49.7	-45.6	-13.0	-32.6	103.0	66.0
	139.42	V	59.4	-12.3	47.1	-48.2	-13.0	-35.2	195.0	60.5
All detected emissions are compliant with attenuated more than 20 dB below limit.										

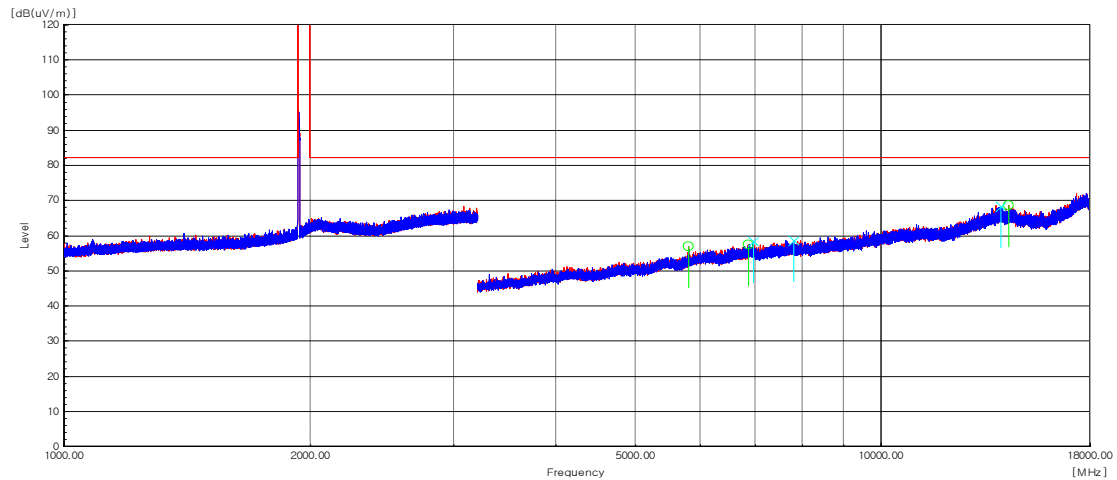
Table 8-35. Radiated spurious emission below 1GHz Worst mode Summary Data



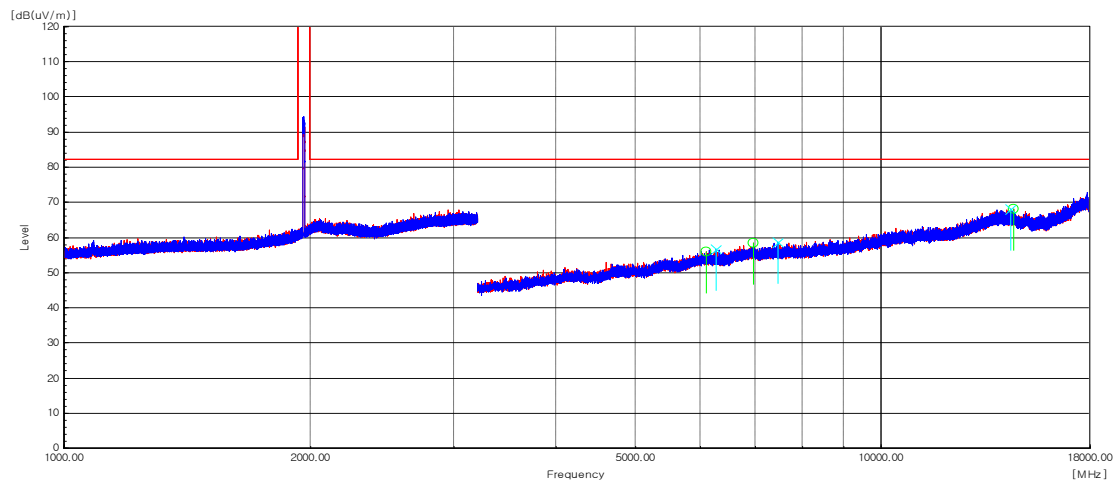
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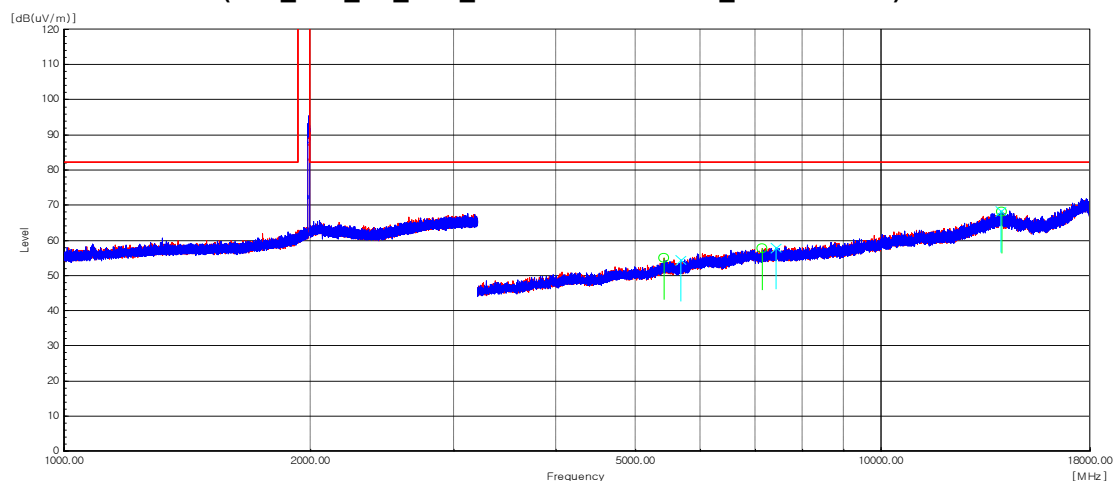
REPORT No.:
CTK-2026-00647
Page (78) / (97) pages



**Plot 8-106. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_Low Channel)**



**Plot 8-107. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_Mid Channel)**



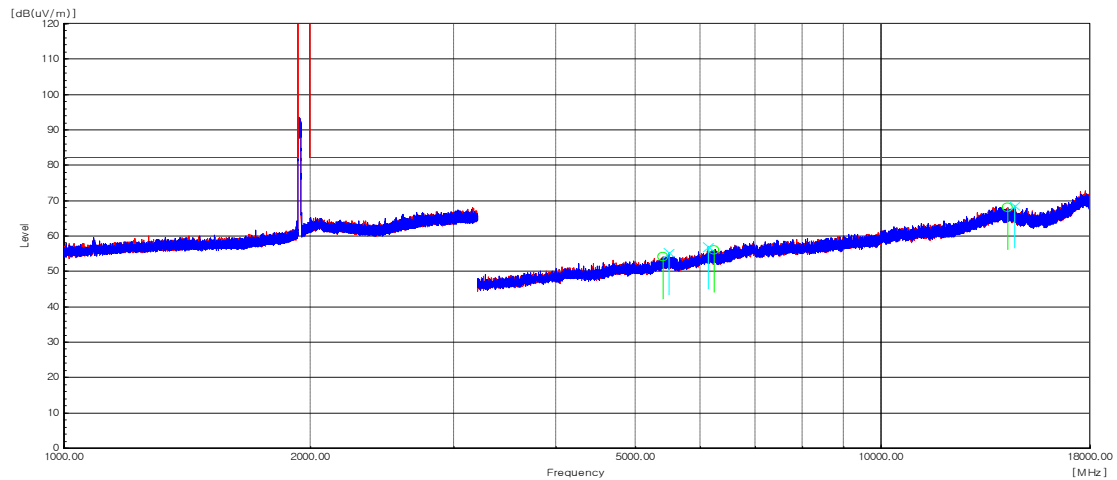
**Plot 8-108. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_High Channel)**



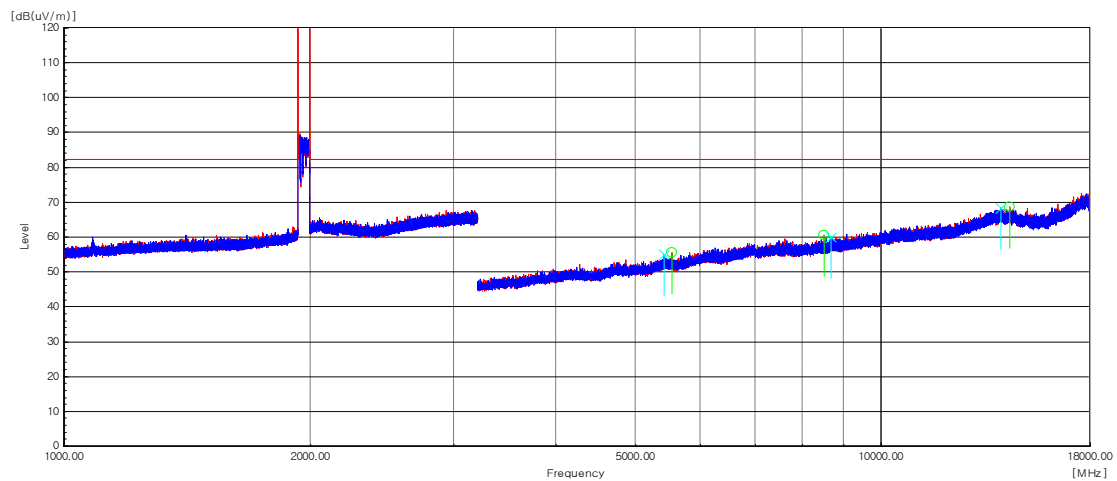
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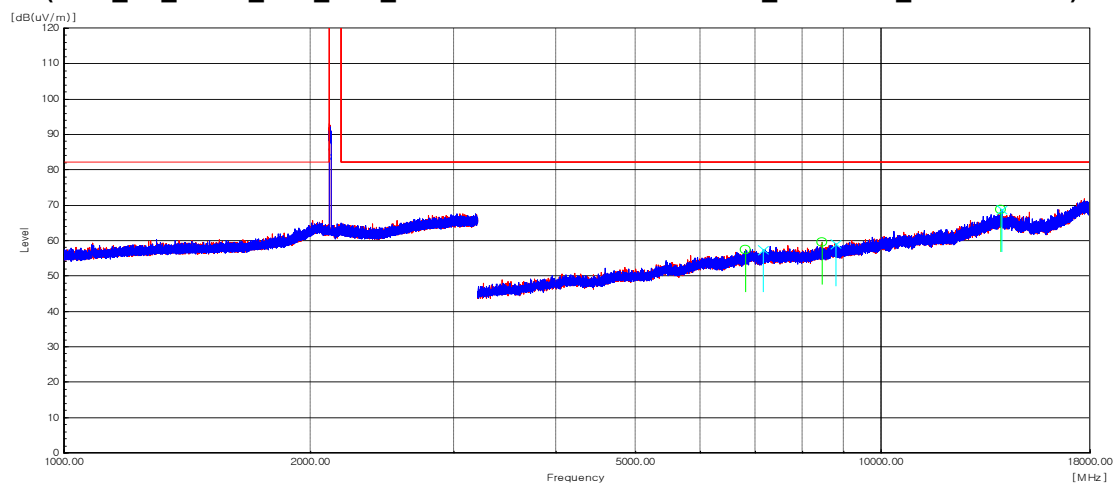
REPORT No.:
CTK-2026-00647
Page (79) / (97) pages



**Plot 8-109. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B25_1C_20M_NB-IoT Guard band_Low Channel)**



**Plot 8-110. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_4C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M_Mid Channel)**



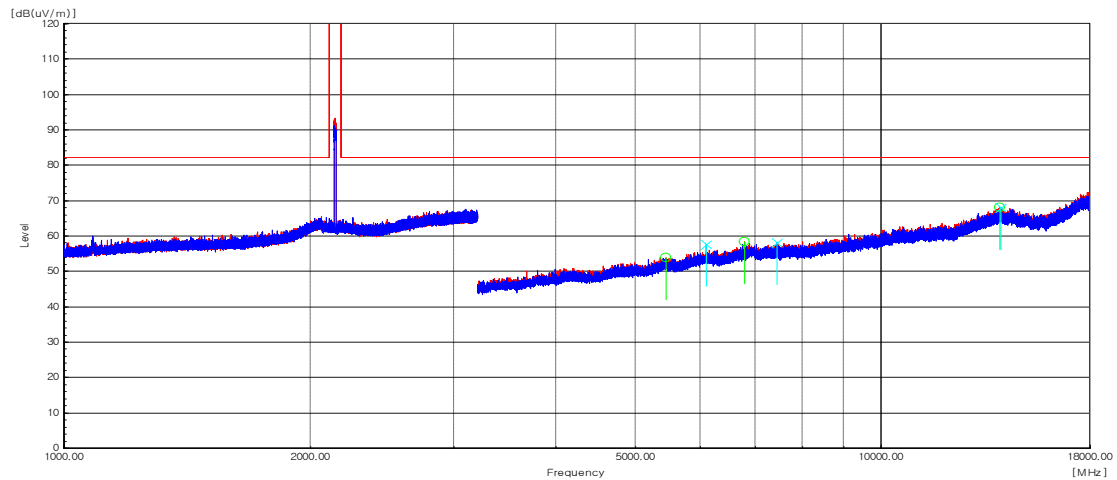
**Plot 8-111. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_Low Channel)**



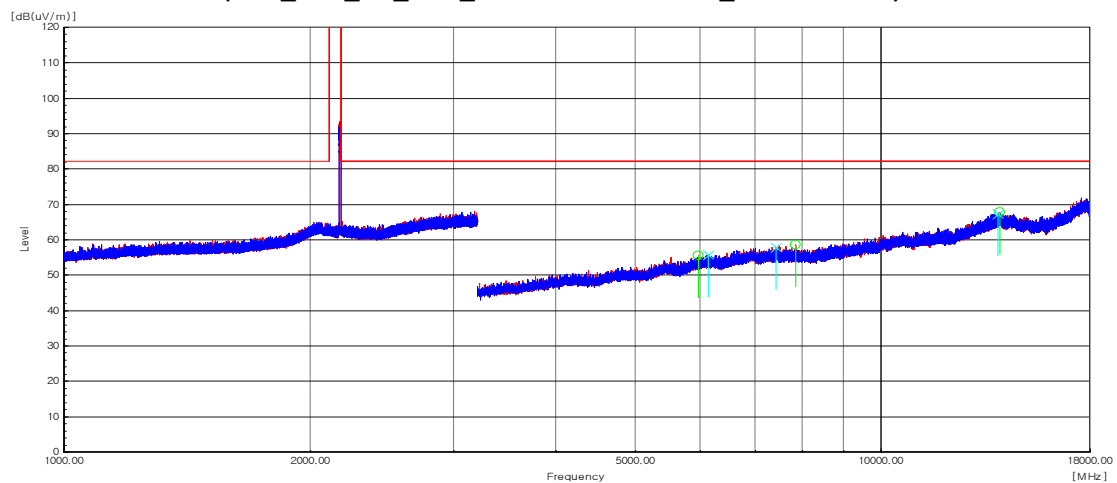
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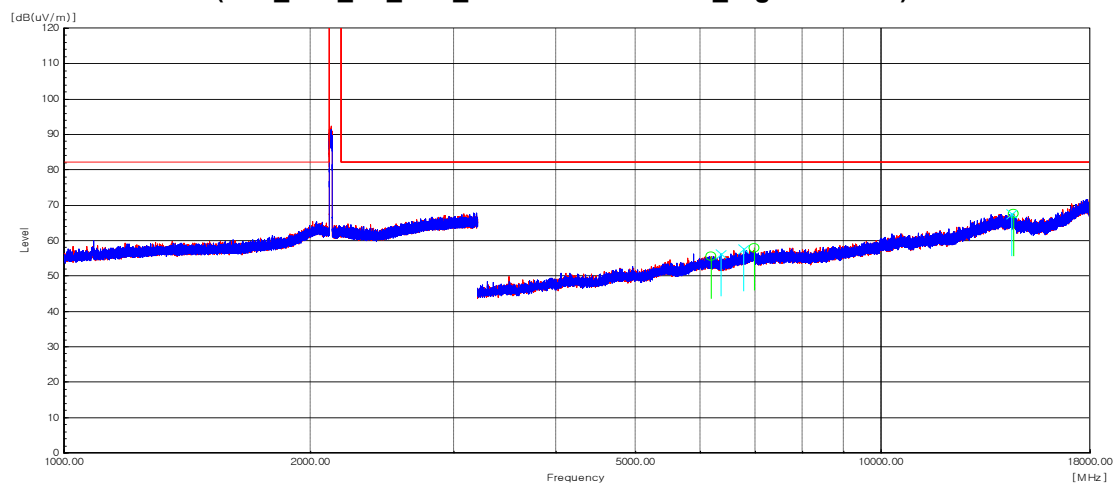
REPORT No.:
CTK-2026-00647
Page (80) / (97) pages



**Plot 8-112. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_Mid Channel)**



**Plot 8-113. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_High Channel)**



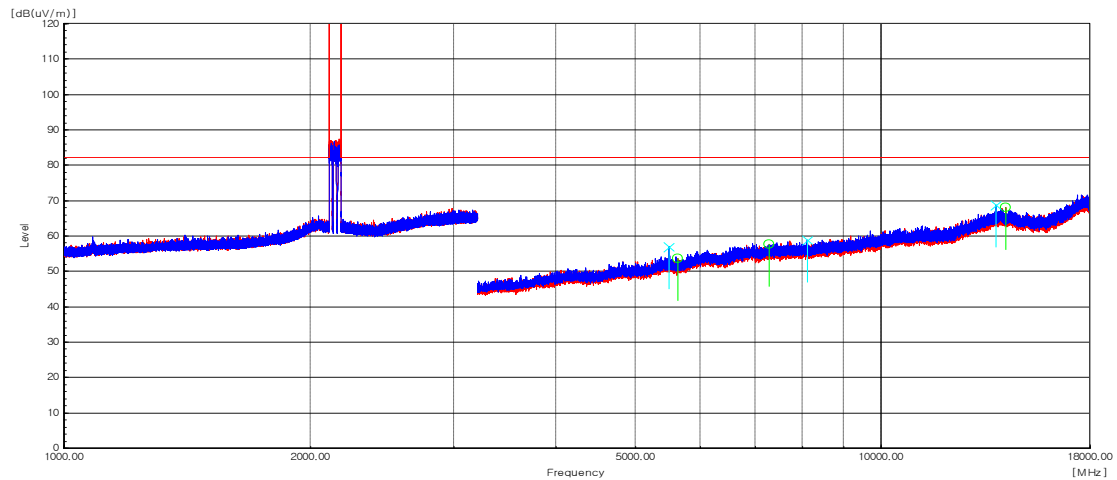
**Plot 8-114. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_1C_20M_NB-IoT Guard band_Low Channel)**



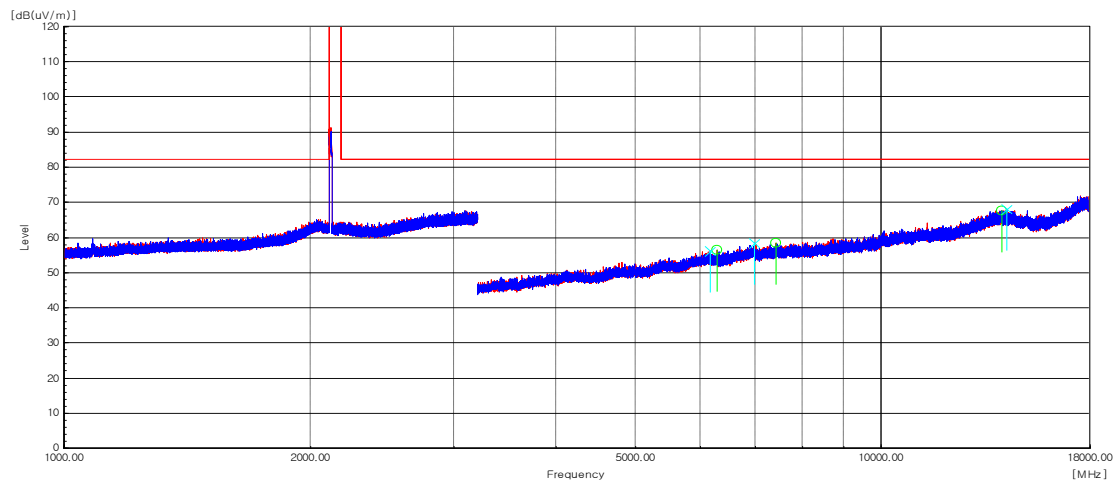
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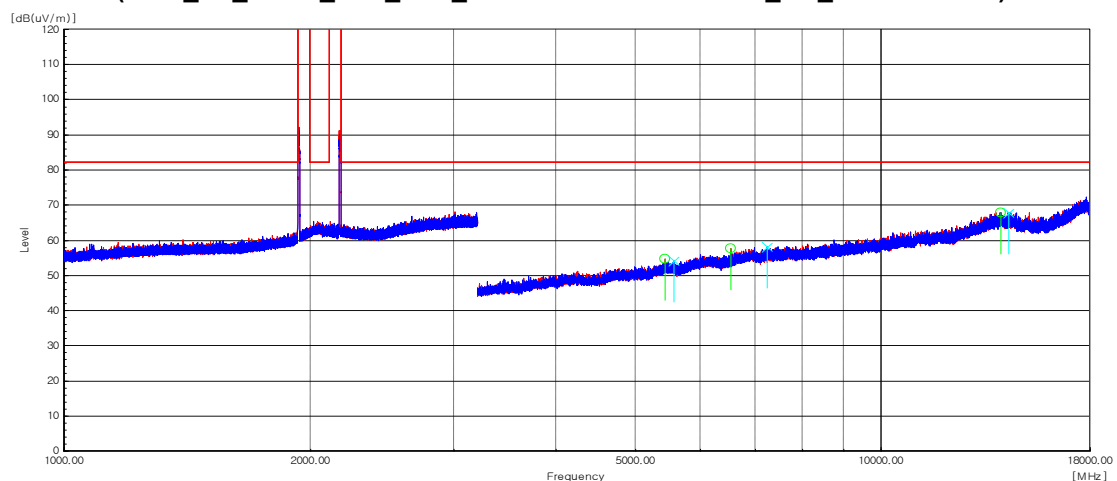
REPORT No.:
CTK-2026-00647
Page (81) / (97) pages



**Plot 8-115. Radiated spurious emission Plot_1 GHz to 18 GHz
(LTE_B66_3NC_20M_NB-IoT Guard band+20M+20M_Non-Contiguous Channel)**



**Plot 8-116. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_2C_B/n66_LTE_10M_NB-IoT Guard band+NR_5M_Low Channel)**

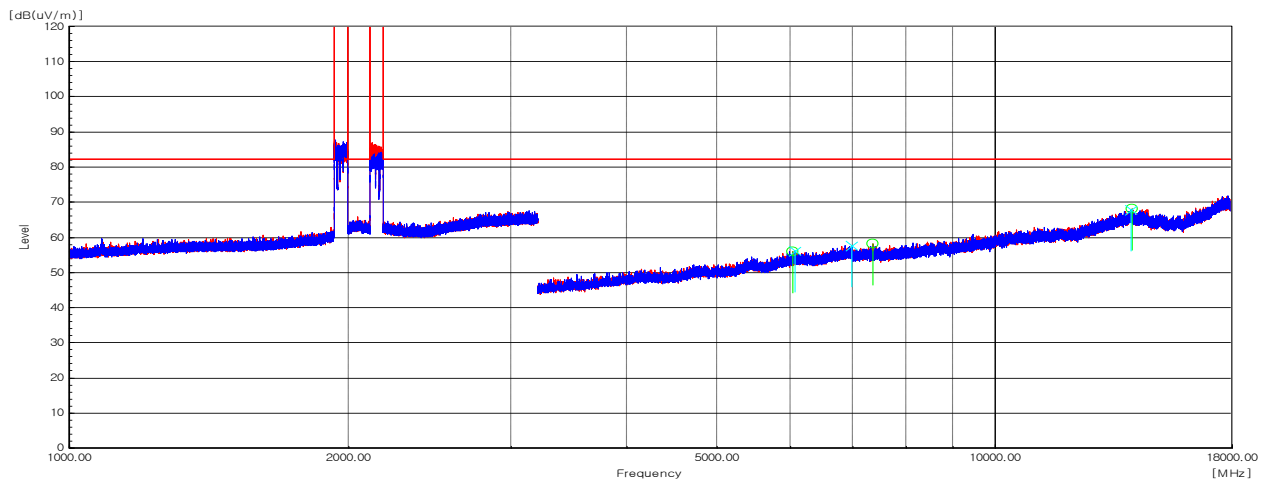


**Plot 8-117. Radiated spurious emission Plot_1 GHz to 18 GHz
(Multi Band_2C_B25_LTE_10M_NB-IoT Guard band+B66_LTE_10M_NB-IoT Guard band_Mid Channel)**

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REPORT No.:
CTK-2026-00647
Page (82) / (97) pages



Plot 8-118. Radiated spurious emission Plot_1 GHz to 18 GHz
(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard band+NR_20M+30M_Mid Channel)

Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dB/μV/m]	AFCL [dB]	Field Strength [dB/μV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna Heigh [cm]	Turntable azimuth [degree]
LTE_B66_1C_10M_NB-IoT Guard band_Mid Channel	6096.18	V	50.7	6.9	57.6	-37.7	-13.0	-24.7	111.2	358.5
	6803.65	H	50	8.3	58.3	-36.9	-13.0	-23.9	184.1	150.7

All detected emissions are compliant with attenuated more than 20 dB below limit.

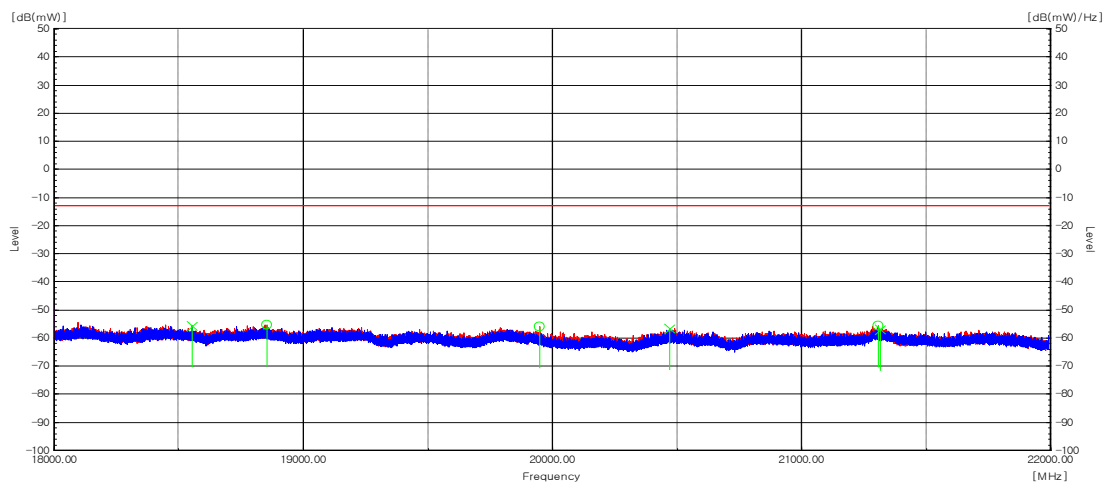
Table 8-36. Radiated spurious emission above 1GHz Worst mode Summary Data



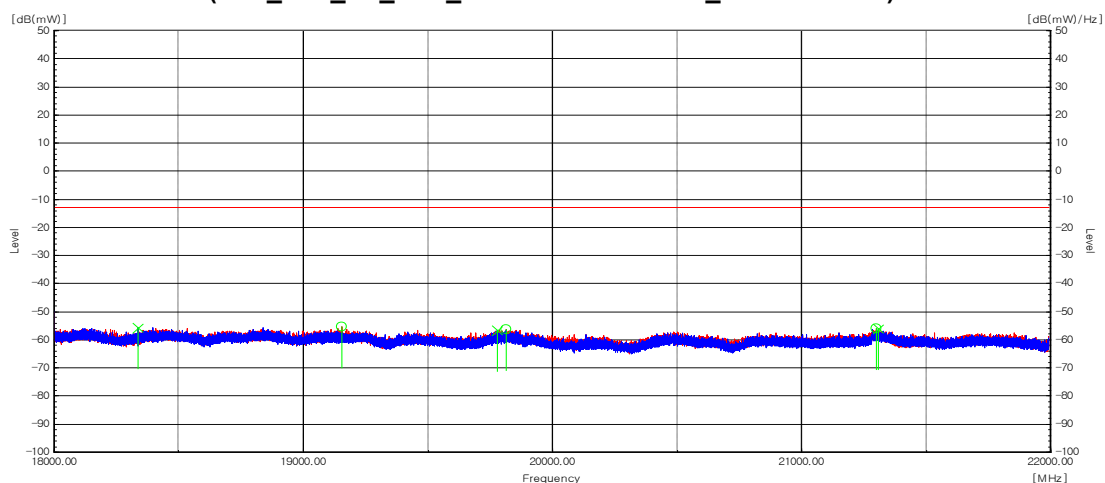
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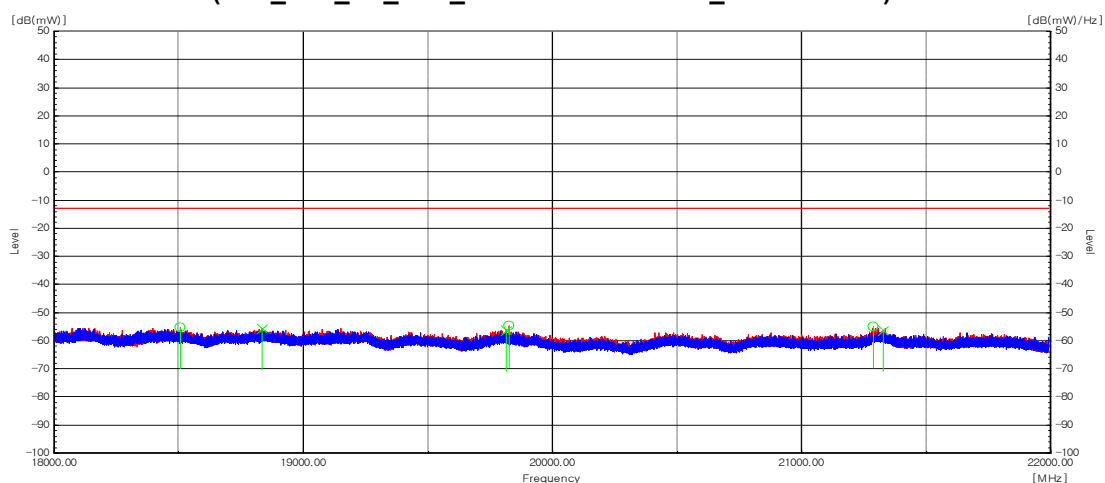
REPORT No.:
CTK-2026-00647
Page (83) / (97) pages



**Plot 8-119. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_Low Channel)**



**Plot 8-120. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_Mid Channel)**



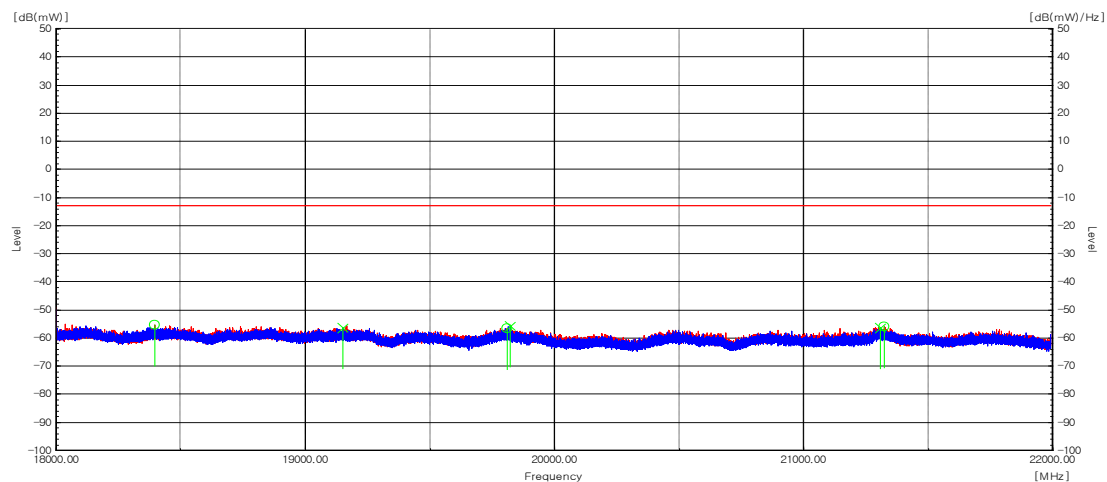
**Plot 8-121. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B25_1C_10M_NB-IoT Guard band_High Channel)**



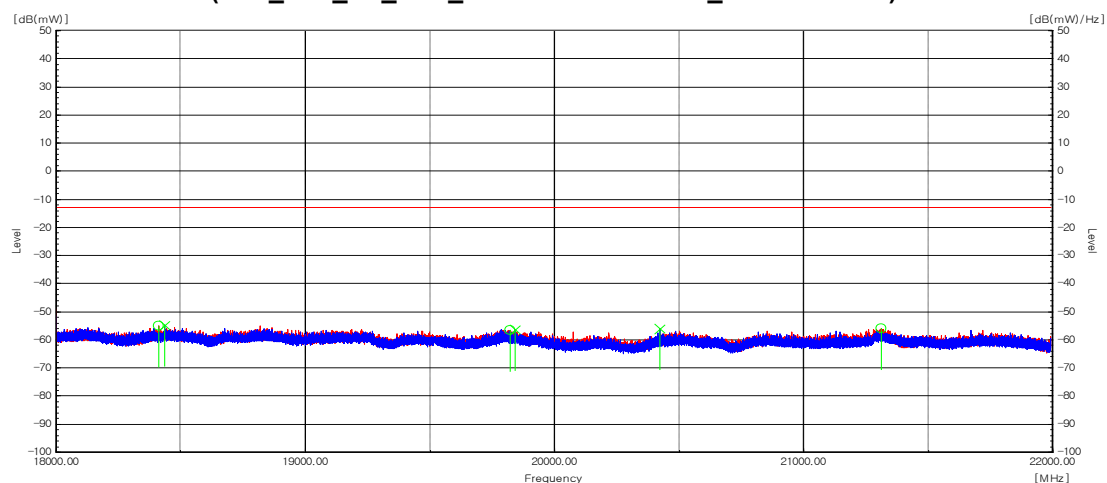
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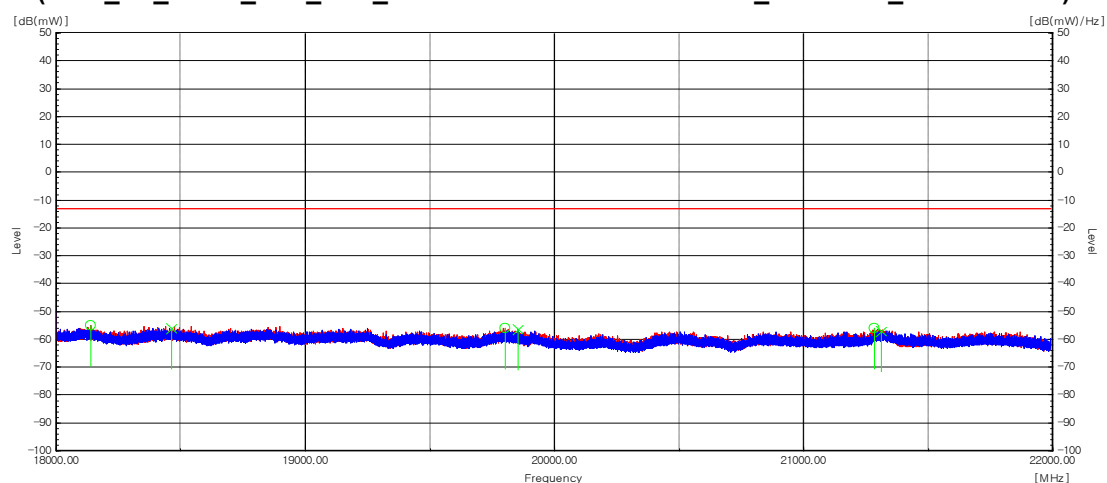
REPORT No.:
CTK-2026-00647
Page (84) / (97) pages



**Plot 8-122. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B25_1C_20M_NB-IoT Guard band_Low Channel)**



**Plot 8-123. Radiated spurious emission Plot_18 GHz to 22 GHz
(MSR_4C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M_Mid Channel)**



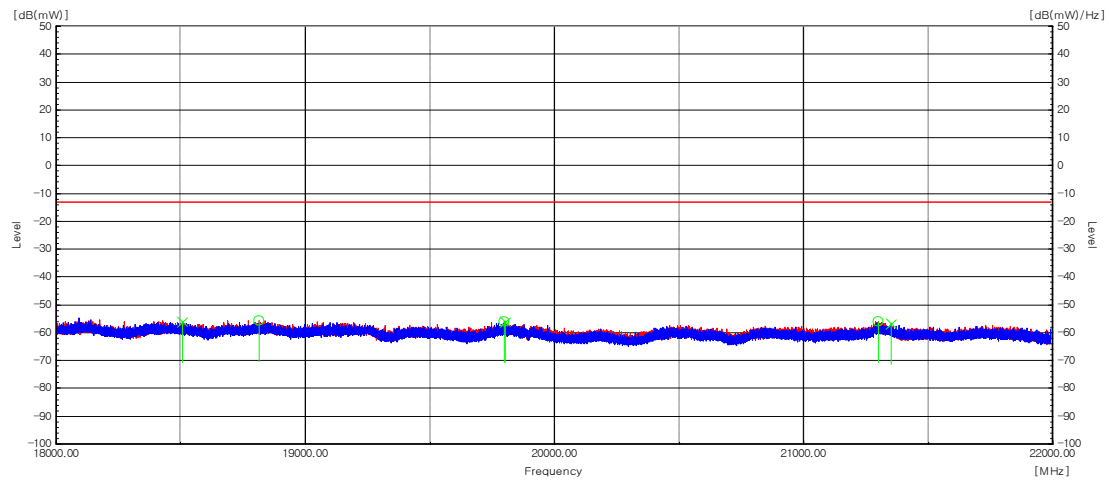
**Plot 8-124. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_Low Channel)**



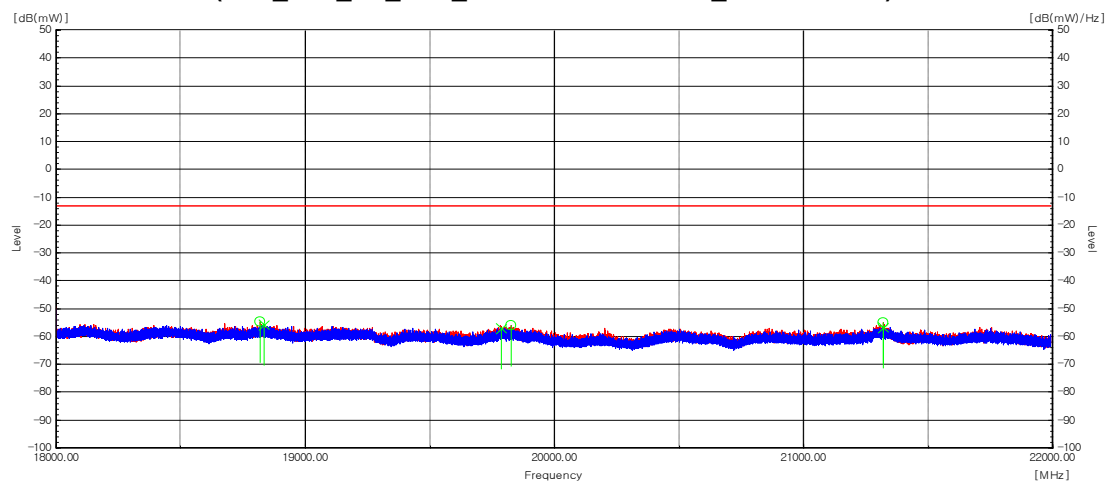
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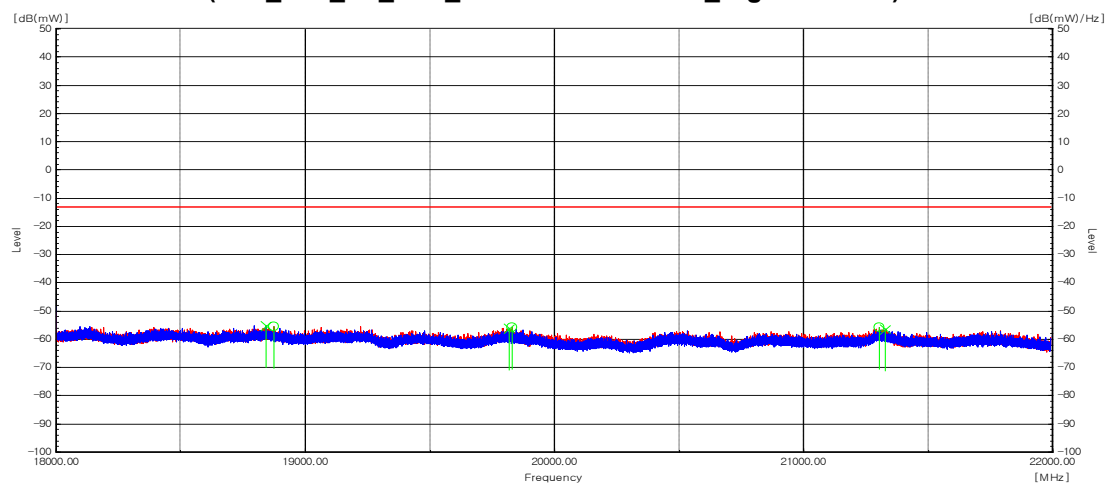
REPORT No.:
CTK-2026-00647
Page (85) / (97) pages



**Plot 8-125. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_Mid Channel)**



**Plot 8-126. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B66_1C_10M_NB-IoT Guard band_High Channel)**



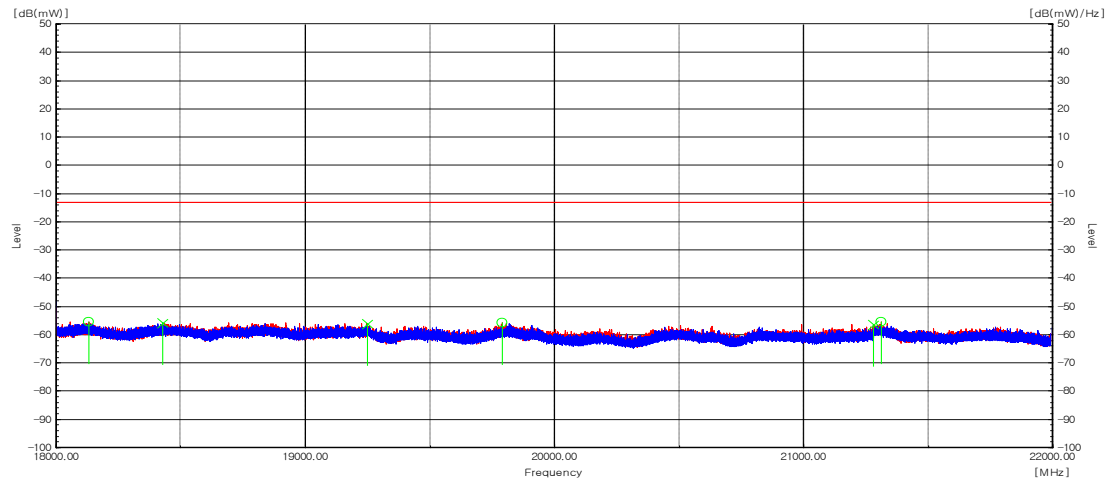
**Plot 8-127. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B66_1C_20M_NB-IoT Guard band_Low Channel)**



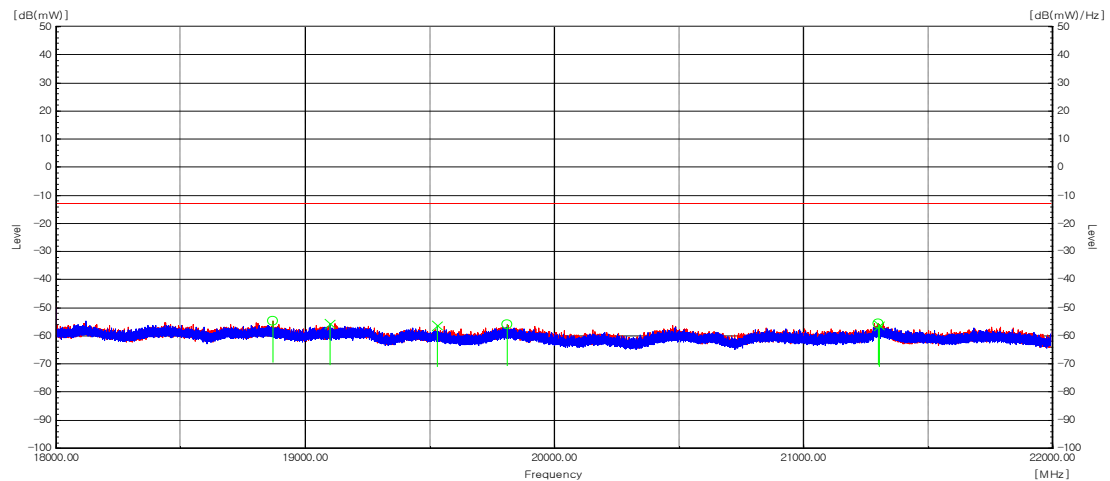
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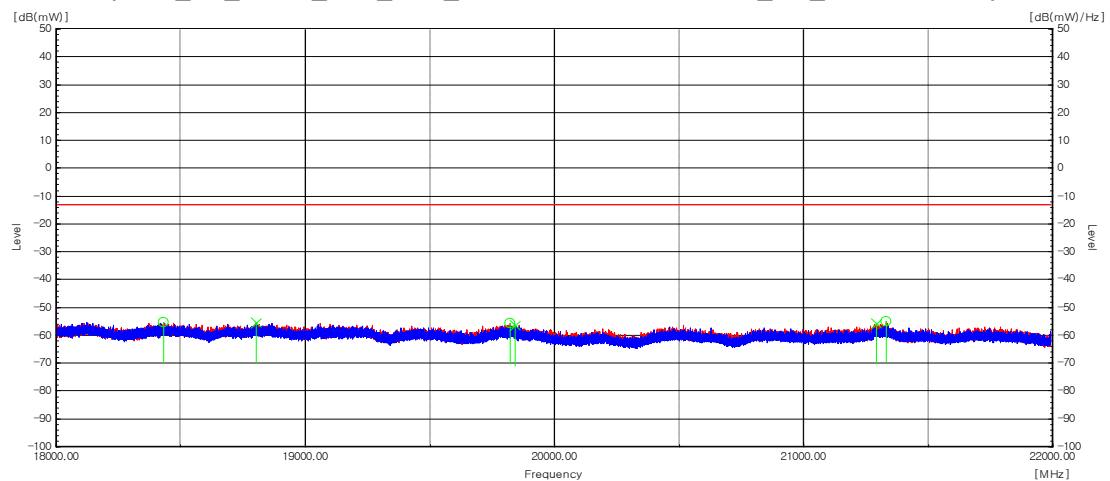
REPORT No.:
CTK-2026-00647
Page (86) / (97) pages



**Plot 8-128. Radiated spurious emission Plot_18 GHz to 22 GHz
(LTE_B66_3NC_20M_NB-IoT Guard band+20M+20M_Non-Contiguous Channel)**



**Plot 8-129. Radiated spurious emission Plot_18 GHz to 22 GHz
(MSR_2C_B/n66_LTE_10M_NB-IoT Guard band+NR_5M_Low Channel)**



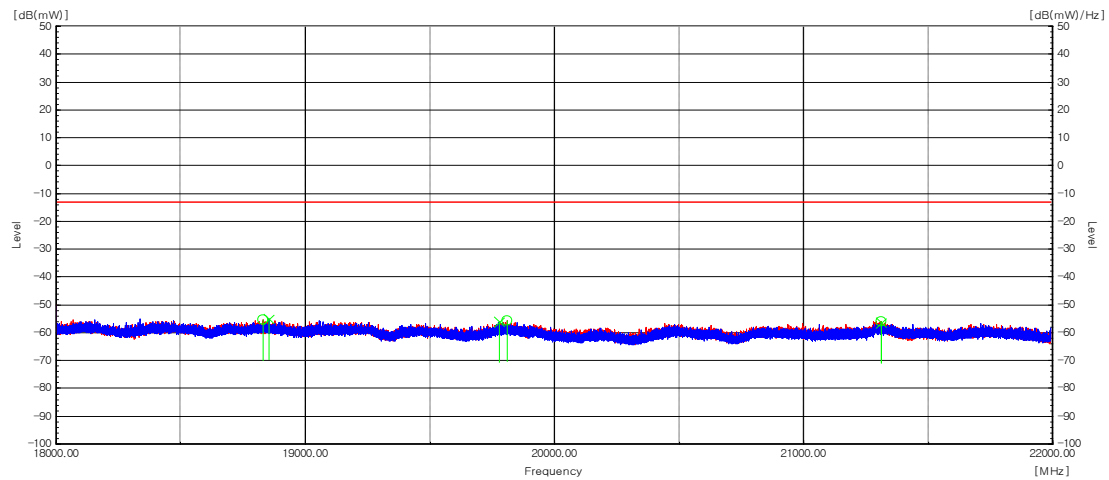
**Plot 8-130. Radiated spurious emission Plot_18 GHz to 22 GHz
(Multi Band_2C_B25_LTE_10M_NB-IoT Guard band+B66_LTE_10M_NB-IoT Guard band_Mid Channel)**



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REPORT No.:
CTK-2026-00647
Page (87) / (97) pages



Plot 8-131. Radiated spurious emission Plot_18 GHz to 22 GHz
(Multi Band_7C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR_15M+20M+B/n66_LTE_20M_NB-IoT Guard band+NR_20M+30M_Mid Channel)

Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Turntable azimuth [degree]
LTE_B66_1C_20M_NB-IoT Guard band_Low Channel	21302.5	H	-48.7	-7	-55.7	-13	42.7	187.4
	21328.0	V	-48.5	-8.1	-56.6	-13	43.6	46.3
	All detected emissions are compliant with attenuated more than 20 dB below limit.							

Table 8-37. Radiated spurious emission above 1GHz Worst mode Summary Data

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CTK-2026-00647
Page (88) / (97) pages

9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung RRU (RF4487d) FCC ID: A3LRF4487D-25A** complies with all of the requirements of Part 24E and 27 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.

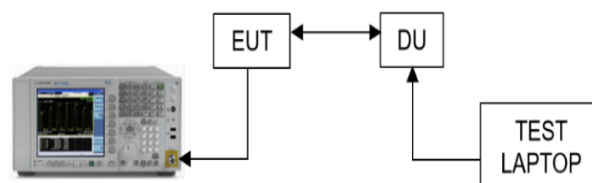


Figure 10-1. Test Instrument & Measurement Setup

Limit

N/A

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CTK-2026-00647
Page (90) / (97) 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).
4. Sample Calculation for LTE_B25_1C_5M_QPSK - Low Channel
Let us assume the following numbers:
 - a) Total MIMO Conducted Power as 149515.44 mW

Factors		Value	Unit
Summed MIMO Conducted Power (linear sum)		149515.44	mW
Summed MIMO Conducted Power (dBm)	$= 10 * \log (149515.44)$	51.75	dBm



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REPORT No.:
CTK-2026-00647
Page (91) / (97) pages

Channel	Port	QPSK	16QAM
Low	0	47.21	47.21
	1	47.16	47.13
	2	47.27	47.19
	3	47.28	47.33
Total Conducted Power (mW)		211391.25	210678.84
Total Conducted Power (dBm)		53.25	53.24
Channel	Port	QPSK	16QAM
Mid	0	47.32	47.26
	1	47.44	47.36
	2	47.36	47.29
	3	47.54	47.53
Total Conducted Power (mW)		220618.36	217864.69
Total Conducted Power (dBm)		53.44	53.38
Channel	Port	QPSK	16QAM
High	0	47.15	47.14
	1	47.29	47.30
	2	47.26	47.26
	3	47.48	47.43
Total Conducted Power (mW)		214646.26	214009.70
Total Conducted Power (dBm)		53.32	53.30

Table 10-1. Conducted Average Output Power Table (LTE_B25_1C_10M_NB-IoT Guard band)

Channel	Port	QPSK	16QAM
Low	0	47.44	47.34
	1	47.55	47.49
	2	47.63	47.61
	3	47.54	47.49
Total Conducted Power (mW)		227045.19	224086.33
Total Conducted Power (dBm)		53.56	53.50
Channel	Port	QPSK	16QAM
Mid	0	47.43	47.41
	1	47.60	47.57
	2	47.60	47.60
	3	47.59	47.57
Total Conducted Power (mW)		227834.64	226920.49
Total Conducted Power (dBm)		53.58	53.56
Channel	Port	QPSK	16QAM
High	0	47.37	47.36
	1	47.51	47.56
	2	47.50	47.54
	3	47.49	47.55
Total Conducted Power (mW)		223278.48	225106.45
Total Conducted Power (dBm)		53.49	53.52

Table 10-2. Conducted Average Output Power Table (LTE_B25_1C_15M_NB-IoT Guard band)



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CTK-2026-00647
Page (92) / (97) pages

Channel	Port	QPSK	16QAM
Low	0	48.62	48.57
	1	48.78	48.72
	2	48.76	48.73
	3	48.75	48.73
Total Conducted Power (mW)		298438.91	295707.85
Total Conducted Power (dBm)		54.75	54.71
Channel	Port	QPSK	16QAM
Mid	0	48.63	48.65
	1	48.73	48.79
	2	48.72	48.77
	3	48.80	48.73
Total Conducted Power (mW)		297921.58	298946.18
Total Conducted Power (dBm)		54.74	54.76
Channel	Port	QPSK	16QAM
High	0	48.54	48.56
	1	48.77	48.74
	2	48.69	48.72
	3	48.77	48.72
Total Conducted Power (mW)		296081.27	295542.77
Total Conducted Power (dBm)		54.71	54.71

Table 10-3. Conducted Average Output Power Table (LTE_B25_1C_20M_NB-IoT Guard band)



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CTK-2026-00647
Page (93) / (97) pages

Channel	Port	LTE_B25_2C_10M_NB-IoT Guard band+5M		LTE_B25_4C_15M_NB-IoT Guard band+15M+15M+20M	
		QPSK	16QAM	QPSK	16QAM
Low	0	47.52	47.45		
	1	47.63	47.57		
	2	47.72	47.62		
	3	47.54	47.54		
Total Conducted Power (mW)		230347.19	227302.35		
Total Conducted Power (dBm)		53.62	53.57		
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	47.53	47.52	49.79	49.60
	1	47.69	47.63	49.90	49.89
	2	47.67	47.65	49.88	49.83
	3	47.67	47.65	49.85	49.86
Total Conducted Power (mW)		232330.88	230857.21	386883.15	381689.06
Total Conducted Power (dBm)		53.66	53.63	55.88	55.82
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	47.43	47.47		
	1	47.67	47.67		
	2	47.62	47.57		
	3	47.60	47.53		
Total Conducted Power (mW)		229167.62	228097.82		
Total Conducted Power (dBm)		53.60	53.58		
Channel	Port	MSR_2C_B/n25_LTE_10M_NB-IoT Guard band+NR 5M		MSR_4C_B/n25_LTE_15M_NB-IoT Guard band+15M+NR 15M+20M	
		QPSK	16QAM	QPSK	16QAM
Low	0	47.38	47.39		
	1	47.44	47.39		
	2	47.52	47.52		
	3	47.48	47.50		
Total Conducted Power (mW)		222633.63	222383.22		
Total Conducted Power (dBm)		53.48	53.47		
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	47.38	47.35	49.72	49.77
	1	47.44	47.40	49.85	49.89
	2	47.42	47.45	49.70	49.74
	3	47.50	47.46	49.74	49.86
Total Conducted Power (mW)		221606.04	220588.12	377875.68	383357.56
Total Conducted Power (dBm)		53.46	53.44	55.77	55.84
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	47.38	47.40		
	1	47.46	47.45		
	2	47.46	47.49		
	3	47.51	47.55		
Total Conducted Power (mW)		222502.51	223534.60		
Total Conducted Power (dBm)		53.47	53.49		

Table 10-4. Conducted Average Output Power Table (B/n25_Multi carrier)

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CTK-2026-00647
Page (94) / (97) pages

Channel	Port	QPSK	16QAM
Low	0	47.43	47.55
	1	47.42	47.45
	2	47.65	47.70
	3	47.43	47.43
Total Conducted Power (mW)		224088.09	226695.10
Total Conducted Power (dBm)		53.50	53.55
Channel	Port	QPSK	16QAM
Mid	0	47.82	47.71
	1	47.62	47.64
	2	47.74	47.72
	3	47.55	47.55
Total Conducted Power (mW)		234658.20	233138.01
Total Conducted Power (dBm)		53.70	53.68
Channel	Port	QPSK	16QAM
High	0	47.71	47.77
	1	47.59	47.57
	2	47.95	47.86
	3	47.65	47.58
Total Conducted Power (mW)		237015.56	235362.83
Total Conducted Power (dBm)		53.75	53.72

Table 10-5. Conducted Average Output Power Table (LTE_B66_1C_10M_NB-IoT Guard band)

Channel	Port	QPSK	16QAM
Low	0	47.60	47.60
	1	47.52	47.49
	2	47.70	47.78
	3	47.52	47.46
Total Conducted Power (mW)		229415.75	229346.47
Total Conducted Power (dBm)		53.61	53.60
Channel	Port	QPSK	16QAM
Mid	0	47.79	47.74
	1	47.72	47.67
	2	47.86	47.79
	3	47.65	47.64
Total Conducted Power (mW)		238578.06	236102.04
Total Conducted Power (dBm)		53.78	53.73
Channel	Port	QPSK	16QAM
High	0	47.70	47.67
	1	47.64	47.63
	2	47.93	47.77
	3	47.64	47.62
Total Conducted Power (mW)		237124.15	234072.64
Total Conducted Power (dBm)		53.75	53.69

Table 10-6. Conducted Average Output Power Table (LTE_B66_1C_15M_NB-IoT Guard band)



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Page (95) / (97) pages

Channel	Port	QPSK	16QAM
Low	0	48.71	48.73
	1	48.65	48.66
	2	48.95	48.91
	3	48.62	48.58
Total Conducted Power (mW)		298885.91	298010.67
Total Conducted Power (dBm)		54.76	54.74
Channel	Port	QPSK	16QAM
Mid	0	48.78	48.82
	1	48.78	48.76
	2	48.91	48.90
	3	48.70	48.69
Total Conducted Power (mW)		302953.12	302955.43
Total Conducted Power (dBm)		54.81	54.81
Channel	Port	QPSK	16QAM
High	0	48.66	48.73
	1	48.70	48.72
	2	48.94	48.95
	3	48.69	48.70
Total Conducted Power (mW)		299885.90	301772.66
Total Conducted Power (dBm)		54.77	54.80

Table 10-7. Conducted Average Output Power Table (LTE_B66_1C_20M_NB-IoT Guard band)



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REPORT No.:
CTK-2026-00647
Page (96) / (97) pages

Channel	Port	LTE_B66_2C_10M_NB-IoT Guard band+5M		LTE_B66_3C_20M_NB-IoT Guard band+20M+20M	
		QPSK	16QAM	QPSK	16QAM
Low	0	47.53	47.63	48.68	48.68
	1	47.49	47.56	48.69	48.72
	2	47.66	47.71	48.85	48.77
	3	47.42	47.44	48.66	48.65
Total Conducted Power (mW)		226280.98	229441.98	297938.49	296881.63
Total Conducted Power (dBm)		53.55	53.61	54.74	54.73
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	47.74	47.81	48.64	48.85
	1	47.72	47.67	48.82	48.76
	2	47.83	47.74	48.80	48.97
	3	47.66	47.60	48.72	48.81
Total Conducted Power (mW)		237603.52	235847.08	299652.76	306817.08
Total Conducted Power (dBm)		53.76	53.73	54.77	54.87
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	47.76	47.67	48.86	48.91
	1	47.71	47.64	48.85	48.92
	2	47.91	47.92	48.98	48.94
	3	47.73	47.66	48.88	48.83
Total Conducted Power (mW)		239817.81	236844.07	309985.11	310513.21
Total Conducted Power (dBm)		53.80	53.74	54.91	54.92
Channel	Port	MSR_2C_B/n66_LTE_10M_NB-IoT Guard band+NR 5M		MSR_3C_B/n66_LTE_20M_NB-IoT Guard band+NR 20M+30M	
		QPSK	16QAM	QPSK	16QAM
Low	0	47.46	47.52		
	1	47.49	47.67		
	2	47.72	47.61		
	3	47.49	47.46		
Total Conducted Power (mW)		227084.33	228367.93		
Total Conducted Power (dBm)		53.56	53.59		
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	47.76	47.55	48.50	48.47
	1	47.87	47.70	48.73	48.68
	2	47.85	47.56	48.90	48.79
	3	47.72	47.56	48.63	48.60
Total Conducted Power (mW)		241048.42	229802.51	296009.92	292224.54
Total Conducted Power (dBm)		53.82	53.61	54.71	54.66
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	47.61	47.13		
	1	47.82	47.41		
	2	47.81	47.39		
	3	47.76	47.32		
Total Conducted Power (mW)		238309.13	215501.17		
Total Conducted Power (dBm)		53.77	53.33		

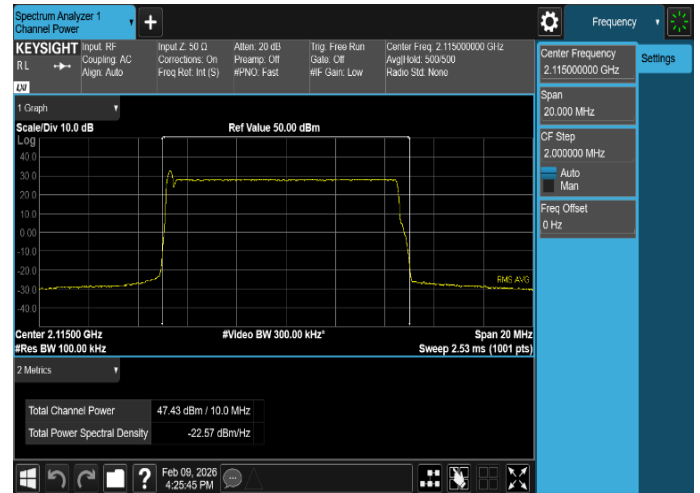
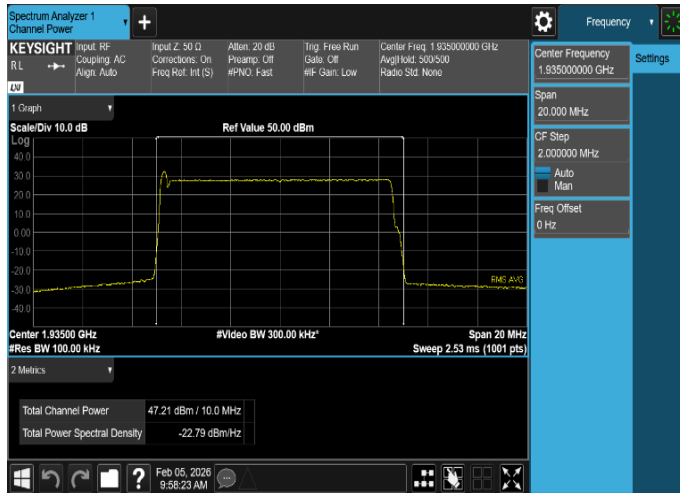
Table 10-8. Conducted Average Output Power Table (B/n66_Multi carrier)



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Page (97) / (97) pages



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