

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Telit Communications S.p.A.
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste, Italy

Manufacturer: Telit Wireless Solutions. Co. Ltd.
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,
Yeongdeungpo-gu, Seoul, 07330, South Korea

Product Name: 5G Radio Module

Brand Name: Telit Cinterion or 

Model No.: FE910C04-WW

Family Model No.: FE910C04-WWD

Model Difference: FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration.

Report Number: TERF2507002435ER

FCC ID RI7FE910C04WW

Date of EUT Received: July 28, 2025

Date of Test: July 28, 2025~August 29, 2025

Issue Date: September 22, 2025

Approved By CHUN-CHIEH, CHEN
Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 96.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2507002435ER	00	Update HW and SW version	September 22, 2025	Susan Lin	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is an addendum report of the original test report number TERF2503001152ER.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	5G Radio Module
Brand Name:	Telit Cinterion or 
Model No.:	FE910C04-WW
Family Model No.:	FE910C04-WWD
Model Difference:	FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration.
Hardware Version:	1.10
Firmware Version:	FE910C04-WW: M0V.032001 FE910C04-WWD: M0V.033001
EUT Series No.:	359492309997993
Power Supply:	3.8Vdc
Test Software (Name/Version):	Connected with Callbox

1.2 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

LTE Band	Frequency (MHz)	Antenna Gain (dBi)	Insertion Loss (dB)	Final Gain (dBi)
LTE Band 42	3400 ~ 3600	1.51	1.1	0.41
LTE Band 43	3600 ~ 3800	1.51	1.1	0.41
LTE Band 48	3550 ~ 3700	1.51	1.1	0.41

5G NR Band	Frequency (MHz)	Antenna Gain (dBi)	Insertion Loss (dB)	Final Gain (dBi)
n48	3550 ~ 3700	1.51	1.1	0.41

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.3 Operation Frequencies

LTE Band 42 Part 96			
BW (MHz)	Operation Frequency (MHz)		
5	3552.5	-	3597.5
10	3555.0	-	3595.0
15	3557.5	-	3592.5
20	3560.0	-	3590.0

LTE Band 43 Part 96			
BW (MHz)	Operation Frequency (MHz)		
5	3602.5	-	3697.5
10	3605.0	-	3695.0
15	3607.5	-	3692.5
20	3610.0	-	3690.0

LTE Band 48			
BW (MHz)	Operation Frequency (MHz)		
5	3552.5	-	3697.5
10	3555.0	-	3695.0
15	3557.5	-	3692.5
20	3560.0	-	3690.0

NR Band 48			
BW (MHz)	Operation Frequency (MHz)		
10	3555.0	-	3695.0
15	3557.5	-	3692.5
20	3560.0	-	3690.0

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei In- dustrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

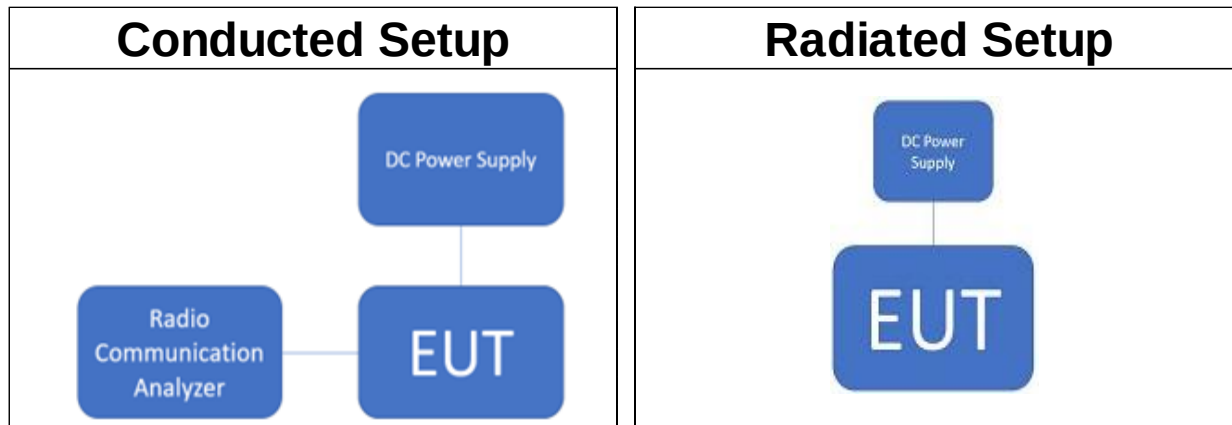
Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §96.41(b)	Maximum Power Output	Compliant
§2.1053, §96.41(e)	Field Strength Of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

LTE

Conducted measurement

LTE Band 48							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	55265 to 56715	55265, 55990, 56715	5	QPSK, 16QAM, 64QAM, 256QAM	V	V	V
	55290 to 56690	55290, 55990, 56690	10		V	V	V
	55315 to 56665	55315, 55990, 56665	15		V	V	V
	55340 to 56640	55340, 55990, 56640	20		V	V	V

Radiated measurement

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
48	55265	5	QPSK	1	0

NR

Conducted measurement

5G NR Band n48	Test Channel			BW(MHz)	Modulation	RB allocation			
Test Item	Low	Mid	High			Edge 1RB	Inner 1RB	Inner Full RB	Outer Full RB
Max. OutPut Power	V	V	V	10, 15, 20	BPSK, QPSK, 16QAM, 64QAM, 256QAM	-	V	V	V

Radiated measurement

5G NR Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Offset
n48	30K	637168	15	DFT-s PI/2 BPSK	1	1

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
Output Power measurement	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.16 dB
	+/- 2.16 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

LTE

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2024	09/12/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/04/2024	11/03/2025

NR

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2024	09/12/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321566	02/12/2025	02/11/2026

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6.2 Radiated Measurement

LTE

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	23	12/11/2024	12/10/2025
7G High Pass Filter	WI	WHKX7.0	45	12/11/2024	12/10/2025
Band Reject Filter 3300-3800	Titan	T04N3300380050S 01	23040703-14	12/11/2024	12/10/2025
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900- 40/12SS	1	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/09/2024	12/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/22/2025	01/21/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	ETS.LINDGREN	3117	143271	01/09/2025	01/08/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Network Analyzer	Anritsu	MS4644A	1216312	12/25/2024	12/24/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	12/31/2024	12/30/2025
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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NR

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	23	12/11/2024	12/10/2025
Band Reject Filter 3300-3800	Titan	T04N3300380050S 01	23040703-14	12/11/2024	12/10/2025
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900- 40/12SS	1	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/09/2024	12/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/22/2025	01/21/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	ETS.LINDGREN	3117	143271	01/09/2025	01/08/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Network Analyzer	Anritsu	MS4644A	1216312	12/25/2024	12/24/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	12/31/2024	12/30/2025
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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7 MAXIMUM OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

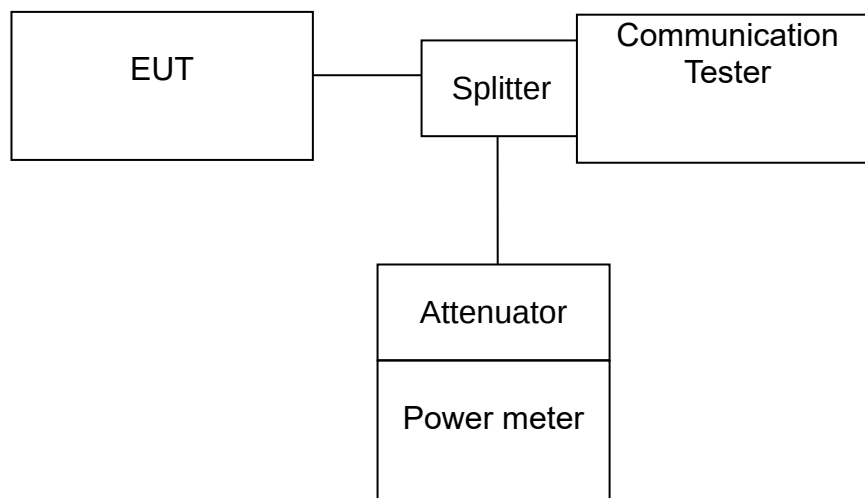
FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD ¹	47

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

Determining ERP and/or EIRP from conducted RF output power measurements

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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7.4 Measurement Result:

LTE

Antenna gain (dBi)		0.41							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
5	55265	3552.5	QPSK	1	0	21.34	21.75	23	-1.25
				1	24	21.25	21.66	23	-1.34
				12	6	20.30	20.71	23	-2.29
				25	0	20.28	20.69	23	-2.31
	55990	3625.0	QPSK	1	0	21.15	21.56	23	-1.44
				1	24	21.18	21.59	23	-1.41
				12	6	20.26	20.67	23	-2.33
				25	0	20.28	20.69	23	-2.31
	56715	3697.5	QPSK	1	0	21.08	21.49	23	-1.51
				1	24	21.06	21.47	23	-1.53
				12	6	20.09	20.50	23	-2.50
				25	0	20.08	20.49	23	-2.51
5	55265	3552.5	16QAM	1	0	20.45	20.86	23	-2.14
				1	24	20.41	20.82	23	-2.18
				12	6	19.35	19.76	23	-3.24
				25	0	19.30	19.71	23	-3.29
	55990	3625.0	16QAM	1	0	20.33	20.74	23	-2.26
				1	24	20.24	20.65	23	-2.35
				12	6	19.35	19.76	23	-3.24
				25	0	19.31	19.72	23	-3.28
	56715	3697.5	16QAM	1	0	20.23	20.64	23	-2.36
				1	24	20.22	20.63	23	-2.37
				12	6	19.13	19.54	23	-3.46
				25	0	19.09	19.50	23	-3.50
5	55265	3552.5	64QAM	1	0	19.44	19.85	23	-3.15
				1	24	19.35	19.76	23	-3.24
				12	6	18.39	18.80	23	-4.20
				25	0	18.30	18.71	23	-4.29
	55990	3625.0	64QAM	1	0	19.20	19.61	23	-3.39
				1	24	19.30	19.71	23	-3.29
				12	6	18.31	18.72	23	-4.28
				25	0	18.29	18.70	23	-4.30
	56715	3697.5	64QAM	1	0	19.12	19.53	23	-3.47
				1	24	19.48	19.89	23	-3.11
				12	6	18.11	18.52	23	-4.48
				25	0	18.07	18.48	23	-4.52
5	55265	3552.5	256QAM	1	0	16.36	16.77	23	-6.23
				1	24	16.21	16.62	23	-6.38
				12	6	16.37	16.78	23	-6.22
				25	0	16.34	16.75	23	-6.25
	55990	3625.0	256QAM	1	0	16.29	16.70	23	-6.30
				1	24	16.24	16.65	23	-6.35
				12	6	16.29	16.70	23	-6.30
				25	0	16.25	16.66	23	-6.34
	56715	3697.5	256QAM	1	0	16.18	16.59	23	-6.41
				1	24	16.20	16.61	23	-6.39
				12	6	16.08	16.49	23	-6.51
				25	0	16.09	16.50	23	-6.50

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Antenna gain (dBi)		0.41							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
10	55290	3555.0	QPSK	1	0	21.28	21.69	23	-1.31
				1	49	21.23	21.64	23	-1.36
				25	12	20.31	20.72	23	-2.28
				50	0	20.31	20.72	23	-2.28
	55990	3625.0	QPSK	1	0	21.21	21.62	23	-1.38
				1	49	21.15	21.56	23	-1.44
				25	12	20.29	20.70	23	-2.30
				50	0	20.26	20.67	23	-2.33
	56690	3695.0	QPSK	1	0	21.10	21.51	23	-1.49
				1	49	20.90	21.31	23	-1.69
				25	12	20.07	20.48	23	-2.52
				50	0	20.06	20.47	23	-2.53
10	55290	3555.0	16QAM	1	0	20.52	20.93	23	-2.07
				1	49	20.28	20.69	23	-2.31
				25	12	19.37	19.78	23	-3.22
				50	0	19.30	19.71	23	-3.29
	55990	3625.0	16QAM	1	0	20.36	20.77	23	-2.23
				1	49	20.31	20.72	23	-2.28
				25	12	19.40	19.81	23	-3.19
				50	0	19.31	19.72	23	-3.28
	56690	3695.0	16QAM	1	0	20.43	20.84	23	-2.16
				1	49	20.13	20.54	23	-2.46
				25	12	19.14	19.55	23	-3.45
				50	0	19.07	19.48	23	-3.52
10	55290	3555.0	64QAM	1	0	19.35	19.76	23	-3.24
				1	49	19.36	19.77	23	-3.23
				25	12	18.37	18.78	23	-4.22
				50	0	18.26	18.67	23	-4.33
	55990	3625.0	64QAM	1	0	19.41	19.82	23	-3.18
				1	49	19.59	20.00	23	-3.00
				25	12	18.38	18.79	23	-4.21
				50	0	18.27	18.68	23	-4.32
	56690	3695.0	64QAM	1	0	19.15	19.56	23	-3.44
				1	49	19.39	19.80	23	-3.20
				25	12	18.09	18.50	23	-4.50
				50	0	18.04	18.45	23	-4.55
10	55290	3555.0	256QAM	1	0	16.36	16.77	23	-6.23
				1	49	16.24	16.65	23	-6.35
				25	12	16.39	16.80	23	-6.20
				50	0	16.30	16.71	23	-6.29
	55990	3625.0	256QAM	1	0	16.41	16.82	23	-6.18
				1	49	16.42	16.83	23	-6.17
				25	12	16.29	16.70	23	-6.30
				50	0	16.27	16.68	23	-6.32
	56690	3695.0	256QAM	1	0	16.05	16.46	23	-6.54
				1	49	16.16	16.57	23	-6.43
				25	12	16.07	16.48	23	-6.52
				50	0	16.01	16.42	23	-6.58

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Antenna gain (dBi)		0.41							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
15	55315	3557.5	QPSK	1	0	19.82	20.23	23	-2.77
				1	74	19.60	20.01	23	-2.99
				36	18	18.57	18.98	23	-4.02
				75	0	18.55	18.96	23	-4.04
	55990	3625.0	QPSK	1	0	19.65	20.06	23	-2.94
				1	74	19.46	19.87	23	-3.13
				36	18	18.50	18.91	23	-4.09
				75	0	18.45	18.86	23	-4.14
	56665	3692.5	QPSK	1	0	19.50	19.91	23	-3.09
				1	74	19.53	19.94	23	-3.06
				36	18	18.43	18.84	23	-4.16
				75	0	18.35	18.76	23	-4.24
15	55315	3557.5	16QAM	1	0	18.68	19.09	23	-3.91
				1	74	18.65	19.06	23	-3.94
				36	18	17.69	18.10	23	-4.90
				75	0	17.59	18.00	23	-5.00
	55990	3625.0	16QAM	1	0	18.66	19.07	23	-3.93
				1	74	18.63	19.04	23	-3.96
				36	18	17.50	17.91	23	-5.09
				75	0	17.52	17.93	23	-5.07
	56665	3692.5	16QAM	1	0	18.52	18.93	23	-4.07
				1	74	18.58	18.99	23	-4.01
				36	18	17.45	17.86	23	-5.14
				75	0	17.43	17.84	23	-5.16
15	55315	3557.5	64QAM	1	0	18.00	18.41	23	-4.59
				1	74	17.73	18.14	23	-4.86
				36	18	16.60	17.01	23	-5.99
				75	0	16.53	16.94	23	-6.06
	55990	3625.0	64QAM	1	0	17.65	18.06	23	-4.94
				1	74	17.98	18.39	23	-4.61
				36	18	16.54	16.95	23	-6.05
				75	0	16.46	16.87	23	-6.13
	56665	3692.5	64QAM	1	0	17.38	17.79	23	-5.21
				1	74	17.63	18.04	23	-4.96
				36	18	16.40	16.81	23	-6.19
				75	0	16.36	16.77	23	-6.23
15	55315	3557.5	256QAM	1	0	14.81	15.22	23	-7.78
				1	74	14.73	15.14	23	-7.86
				36	18	14.56	14.97	23	-8.03
				75	0	14.58	14.99	23	-8.01
	55990	3625.0	256QAM	1	0	14.59	15.00	23	-8.00
				1	74	14.43	14.84	23	-8.16
				36	18	14.50	14.91	23	-8.09
				75	0	14.49	14.90	23	-8.10
	56665	3692.5	256QAM	1	0	14.47	14.88	23	-8.12
				1	74	14.45	14.86	23	-8.14
				36	18	14.41	14.82	23	-8.18
				75	0	14.43	14.84	23	-8.16

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Antenna gain (dBi)		0.41							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
20	55340	3560.0	QPSK	1	0	18.48	18.89	23	-4.11
				1	99	18.30	18.71	23	-4.29
				50	25	17.32	17.73	23	-5.27
				100	0	17.32	17.73	23	-5.27
	55990	3625.0	QPSK	1	0	18.39	18.80	23	-4.20
				1	99	18.29	18.70	23	-4.30
				50	25	17.29	17.70	23	-5.30
				100	0	17.26	17.67	23	-5.33
	56640	3690.0	QPSK	1	0	18.35	18.76	23	-4.24
				1	99	18.04	18.45	23	-4.55
				50	25	17.03	17.44	23	-5.56
				100	0	16.99	17.40	23	-5.60
20	55340	3560.0	16QAM	1	0	17.33	17.74	23	-5.26
				1	99	17.36	17.77	23	-5.23
				50	25	16.39	16.80	23	-6.20
				100	0	16.27	16.68	23	-6.32
	55990	3625.0	16QAM	1	0	17.71	18.12	23	-4.88
				1	99	17.28	17.69	23	-5.31
				50	25	16.29	16.70	23	-6.30
				100	0	16.22	16.63	23	-6.37
	56640	3690.0	16QAM	1	0	17.40	17.81	23	-5.19
				1	99	17.16	17.57	23	-5.43
				50	25	16.08	16.49	23	-6.51
				100	0	16.01	16.42	23	-6.58
20	55340	3560.0	64QAM	1	0	16.54	16.95	23	-6.05
				1	99	16.56	16.97	23	-6.03
				50	25	15.35	15.76	23	-7.24
				100	0	15.29	15.70	23	-7.30
	55990	3625.0	64QAM	1	0	16.49	16.90	23	-6.10
				1	99	16.46	16.87	23	-6.13
				50	25	15.27	15.68	23	-7.32
				100	0	15.14	15.55	23	-7.45
	56640	3690.0	64QAM	1	0	16.10	16.51	23	-6.49
				1	99	16.33	16.74	23	-6.26
				50	25	15.04	15.45	23	-7.55
				100	0	14.95	15.36	23	-7.64
20	55340	3560.0	256QAM	1	0	13.20	13.61	23	-9.39
				1	99	13.28	13.69	23	-9.31
				50	25	13.34	13.75	23	-9.25
				100	0	13.33	13.74	23	-9.26
	55990	3625.0	256QAM	1	0	13.35	13.76	23	-9.24
				1	99	13.11	13.52	23	-9.48
				50	25	13.27	13.68	23	-9.32
				100	0	13.21	13.62	23	-9.38
	56640	3690.0	256QAM	1	0	13.14	13.55	23	-9.45
				1	99	12.92	13.33	23	-9.67
				50	25	13.07	13.48	23	-9.52
				100	0	13.03	13.44	23	-9.56

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NR

5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)			0.41		Channel (ARFCH)/ Frequency (MHz)			Channel (ARFCH)/ Frequency (MHz)		
EIRP Limit (dBm)			23dBm/10MHz		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637000	641668	646332	637000	641668	646332
					3555.00	3625.02	3694.98	3555.00	3625.02	3694.98
10	30	DFT-s PI/2 BPSK	1	1	22.50	22.48	22.38	22.91	22.89	22.79
			1	22	22.36	22.29	21.92	22.77	22.70	22.33
			12	6	21.89	22.17	22.09	22.30	22.58	22.50
			24	0	21.80	21.71	21.64	22.21	22.12	22.05
		DFT-s QPSK	1	1	22.33	22.47	22.15	22.74	22.88	22.56
			1	22	22.24	22.39	22.12	22.65	22.80	22.53
			12	6	22.21	22.10	22.03	22.62	22.51	22.44
			24	0	21.40	21.23	21.11	21.81	21.64	21.52
		DFT-s 16QAM	1	1	21.35	21.27	21.14	21.76	21.68	21.55
		DFT-s 64QAM	1	1	19.76	19.84	19.79	20.17	20.25	20.20
		DFT-s 256QAM	1	1	17.74	18.03	17.90	18.15	18.44	18.31
		CP QPSK	1	1	21.06	21.00	20.80	21.47	21.41	21.21
		CP 16QAM	1	1	20.28	20.29	20.07	20.69	20.70	20.48
		CP 64QAM	1	1	18.62	18.96	18.61	19.03	19.37	19.02
		CP 256QAM	1	1	15.56	16.36	15.67	15.97	16.77	16.08

5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)			0.41		Channel (ARFCH)/ Frequency (MHz)			Channel (ARFCH)/ Frequency (MHz)		
EIRP Limit (dBm)			23dBm/10MHz		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637168	641668	646166	637168	641668	646166
					3557.52	3625.02	3692.49	3557.52	3625.02	3692.49
15	30	DFT-s PI/2 BPSK	1	1	20.76	20.64	20.58	21.17	21.05	20.99
			1	36	20.58	20.38	20.42	20.99	20.79	20.83
			18	9	20.31	20.30	20.36	20.72	20.71	20.77
			36	0	20.04	19.83	19.90	20.45	20.24	20.31
		DFT-s QPSK	1	1	20.73	20.56	20.41	21.14	20.97	20.82
			1	36	20.56	20.53	20.39	20.97	20.94	20.80
			18	9	20.45	20.32	20.32	20.86	20.73	20.73
			36	0	19.57	19.38	19.41	19.98	19.79	19.82
		DFT-s 16QAM	1	1	19.42	19.49	19.22	19.83	19.90	19.63
		DFT-s 64QAM	1	1	17.94	18.32	18.00	18.35	18.73	18.41
		DFT-s 256QAM	1	1	15.79	16.21	15.81	16.20	16.62	16.22
		CP QPSK	1	1	19.21	18.91	18.87	19.62	19.32	19.28
		CP 16QAM	1	1	19.02	18.44	18.01	19.43	18.85	18.42
		CP 64QAM	1	1	16.90	17.35	16.75	17.31	17.76	17.16
		CP 256QAM	1	1	13.71	14.07	13.44	14.12	14.48	13.85

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5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)		0.41			Channel (ARFCH)/ Frequency (MHz)			Channel (ARFCH)/ Frequency (MHz)		
EIRP Limit (dBm)		23dBm/10MHz			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637334	641668	646000	637334	641668	646000
					3560.01	3625.02	3690.00	3560.01	3625.02	3690.00
20	30	DFT-s PI/2 BPSK	1	1	19.45	19.31	19.26	19.86	19.72	19.67
			1	49	19.31	19.23	19.22	19.72	19.64	19.63
			25	12	19.21	19.09	19.14	19.62	19.50	19.55
			50	0	18.79	18.58	18.61	19.20	18.99	19.02
		DFT-s QPSK	1	1	19.39	19.16	19.16	19.80	19.57	19.57
			1	49	19.33	19.09	19.13	19.74	19.50	19.54
			25	12	18.71	18.89	19.07	19.12	19.30	19.48
			50	0	18.26	18.04	18.11	18.67	18.45	18.52
		DFT-s 16QAM	1	1	18.21	18.18	17.77	18.62	18.59	18.18
		DFT-s 64QAM	1	1	16.65	16.47	16.69	17.06	16.88	17.10
		DFT-s 256QAM	1	1	14.62	15.05	14.91	15.03	15.46	15.32
		CP QPSK	1	1	17.72	17.45	17.68	18.13	17.86	18.09
		CP 16QAM	1	1	16.87	17.04	17.03	17.28	17.45	17.44
		CP 64QAM	1	1	15.66	15.78	15.67	16.07	16.19	16.08
		CP 256QAM	1	1	12.56	12.55	12.16	12.97	12.96	12.57

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8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

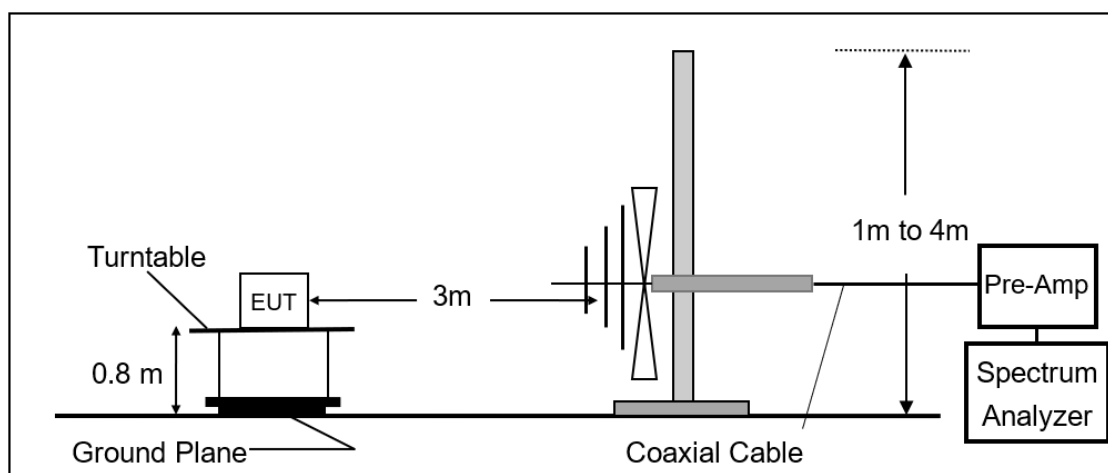
8.1 Standard Applicable

FCC Part 2.1053, Part 96.41, C63.26 Clause 5.7

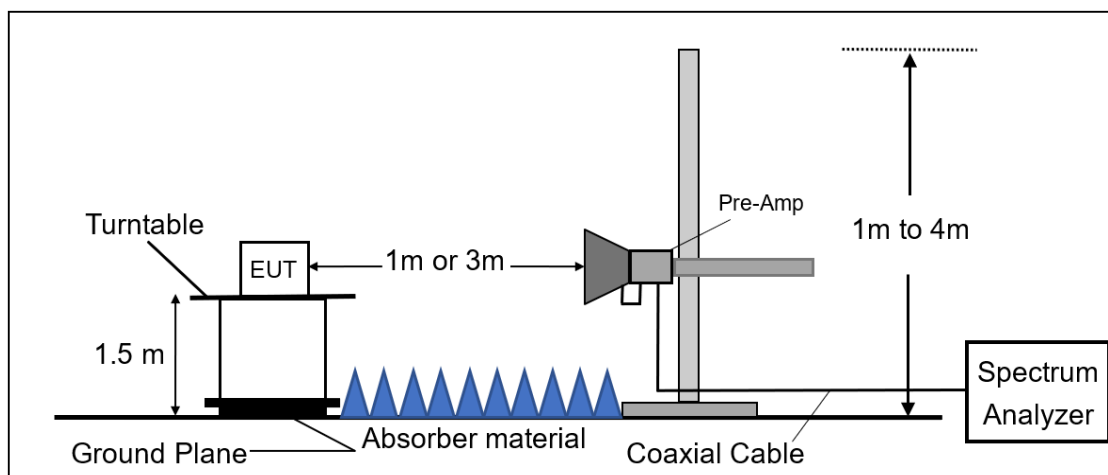
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

8.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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8.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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Member of SGS Group

8.4 Measurement Result:

LTE

Report Number :TERF2507002435ER

Test Site :SAC 1

Operation Mode :LTE B48

Test Date :2025-08-15

Test Mode :Tx

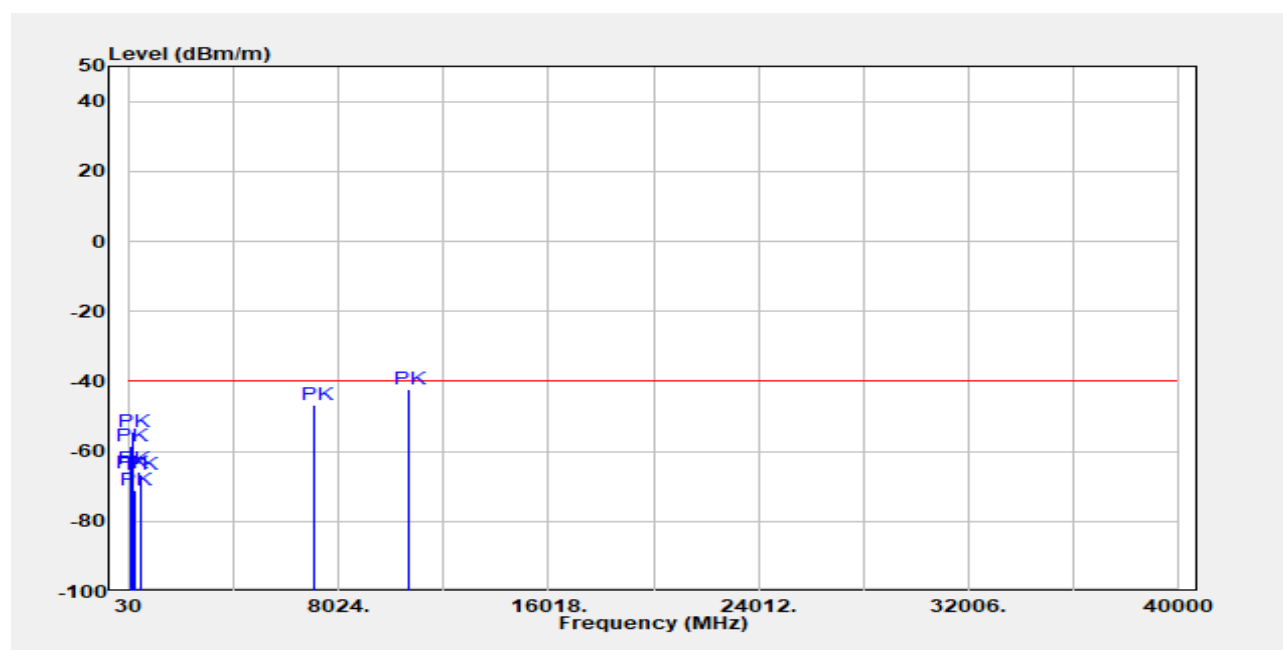
Temp./Humi. :22.3°C/57%

EUT Pol :H Plane

Antenna Pol. :Vertical

Test Frequency :3552.5 MHz

Engineer :WJ Lin



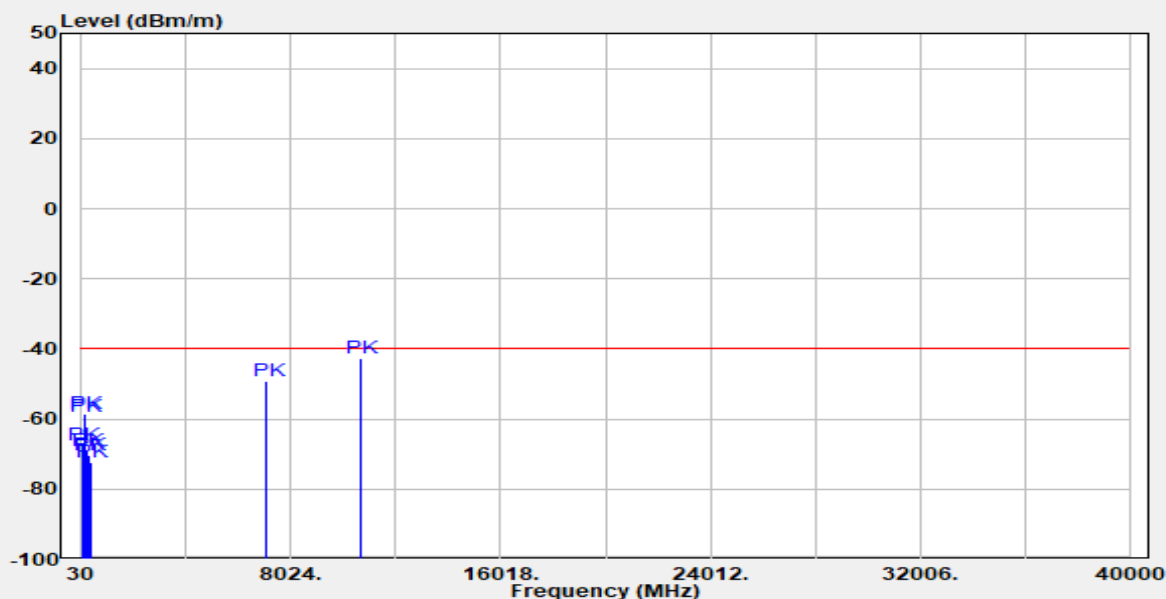
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-58.74	-47.83	-9.60	-1.30	-40.00	-18.74
73.65	-66.28	-61.73	-2.97	-1.58	-40.00	-26.28
115.36	-54.43	-53.67	1.20	-1.96	-40.00	-14.43
139.61	-64.86	-63.28	0.59	-2.17	-40.00	-24.86
195.87	-71.05	-74.47	5.97	-2.56	-40.00	-31.05
482.99	-66.80	-69.34	6.54	-4.01	-40.00	-26.80
7105.00	-46.89	-42.11	11.09	-15.87	-40.00	-6.89
10657.50	-42.47	-34.18	11.33	-19.62	-40.00	-2.47

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Report Number :TERF2507002435ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3552.5 MHz

Test Site :SAC 1
Test Date :2025-08-15
Temp./Humi. :22.3°C/57%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.58	-67.44	-55.86	-10.37	-1.21	-40.00	-27.44
115.36	-59.21	-58.45	1.20	-1.96	-40.00	-19.21
139.61	-58.66	-57.08	0.59	-2.17	-40.00	-18.66
193.93	-69.07	-72.41	5.89	-2.54	-40.00	-29.07
274.44	-70.37	-73.57	6.22	-3.03	-40.00	-30.37
413.15	-72.47	-75.35	6.59	-3.71	-40.00	-32.47
7105.00	-49.04	-44.26	11.09	-15.87	-40.00	-9.04
10657.50	-42.75	-34.46	11.33	-19.62	-40.00	-2.75

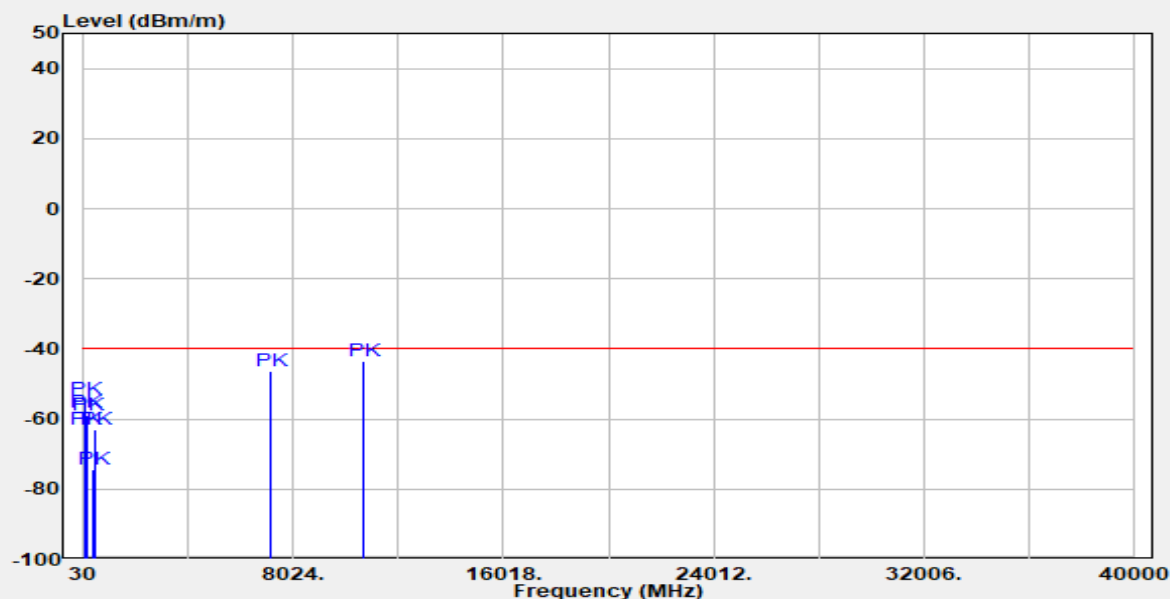
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NR

Report Number :TERF2507002435ER
 Operation Mode :NR n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3557.52 MHz

Test Site :SAC 1
 Test Date :2025-08-18
 Temp./Humi. :23.5°C/55%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



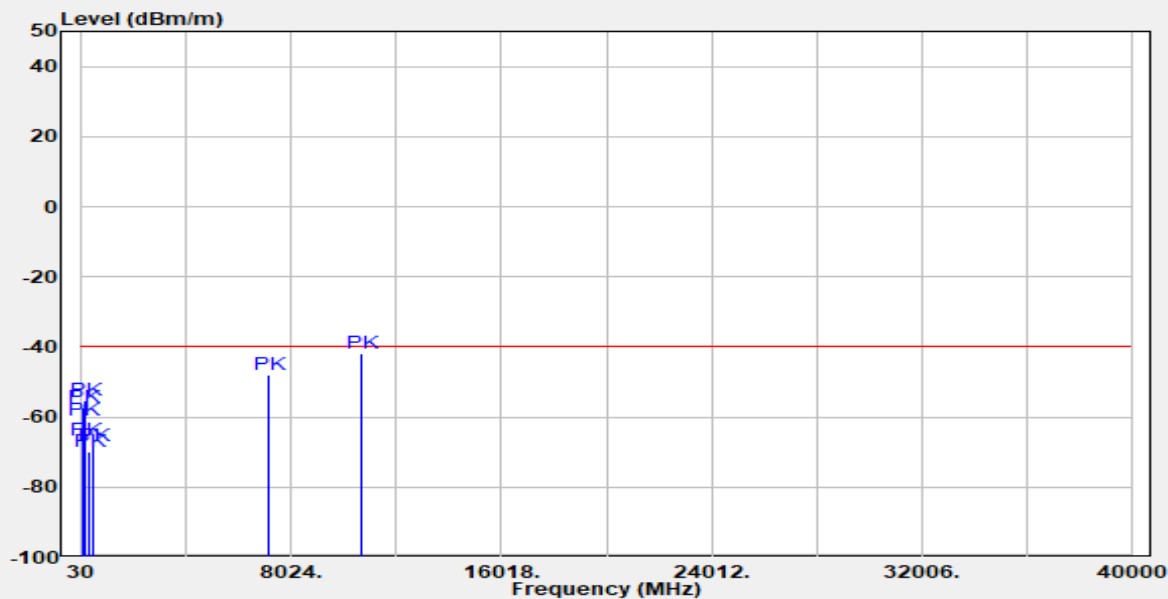
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.580	-58.03	-46.45	-10.37	-1.21	-40.00	-18.03
78.500	-63.01	-60.16	-1.23	-1.63	-40.00	-23.01
108.570	-54.61	-53.74	1.03	-1.91	-40.00	-14.61
133.790	-59.08	-57.74	0.78	-2.12	-40.00	-19.08
385.990	-74.26	-77.22	6.54	-3.58	-40.00	-34.26
483.960	-62.90	-65.43	6.54	-4.02	-40.00	-22.90
7115.040	-46.29	-41.48	11.07	-15.88	-40.00	-6.29
10672.560	-43.29	-35.05	11.39	-19.64	-40.00	-3.29

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Report Number :TERF2507002435ER
 Operation Mode :NR n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3557.52 MHz

Test Site :SAC 1
 Test Date :2025-08-18
 Temp./Humi. :23.5°C/55%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.580	-61.17	-49.60	-10.37	-1.21	-40.00	-21.17
107.600	-57.38	-56.58	1.11	-1.90	-40.00	-17.38
139.610	-55.11	-53.53	0.59	-2.17	-40.00	-15.11
186.170	-66.50	-68.83	4.83	-2.49	-40.00	-26.50
281.230	-70.02	-73.11	6.16	-3.07	-40.00	-30.02
436.430	-68.16	-70.71	6.37	-3.82	-40.00	-28.16
7115.040	-47.99	-43.18	11.07	-15.88	-40.00	-7.99
10672.560	-41.92	-33.67	11.39	-19.64	-40.00	-1.92

~ End of Report ~

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