

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Product Name: Notebook Computer
Brand Name: HP
Model No.: HSN-I62C
Report Number: TERF2412003862ER
FCC ID B94HNI62KLR
Date of EUT Received: November 29, 2024
Date of Test: December 3, 2024 ~ January 7, 2025
Issue Date: January 20, 2025

Alex Hsieh

Approved By

Alex Hsieh

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, 22H & 24E & 27 C.

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
TERF2412003862ER	00	Original	January 20, 2025	Yuri Tsai	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I62C
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0004770LHH
Power Supply:	5 /9 /12 /15 /20 Vdc from adapter or 11.58Vdc from battery
Integrated WWAN Module:	Brand Name: Rolling Wireless Model Name: RW350R-GL
Test Software (Name/Version)	Default(connection with call box)

1.2 Operation Frequency Range

Operating Frequency (MHz)			
WCDMA / HSPA+ Band II	1852.4	-	1907.6
WCDMA / HSPA+ Band IV	1712.4	-	1752.6
WCDMA / HSPA+ Band V	826.4	-	846.6

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Model No.	NB / TB Mode	Antenna No.	Remark
PIFA	Vendor 1	6036B0370401 (00-330270505L)	NB	Ant5	Ant0
				Ant8	Ant1
		6036B0370401 (00-330270505L)	TB	Ant5	Ant2
				Ant8	Ant3
	Vendor 2	6036B0366201 (81ELBF15.G36)	NB	Ant5	Ant4
				Ant8	Ant5
		6036B0366201 (81ELBF15.G36)	TB	Ant5	Ant6
				Ant8	Ant7
Note: Transmission frequencies in this test report are only available by the above antenna(s).					

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)							
		Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6	Ant7
WCDMA / HSPA+ Band II	1852.4 - 1907.6		2		-0.12		-1.88		-4.5
WCDMA / HSPA+ Band IV	1712.4 - 1752.6		2.28		-2.05		-0.92		-5.19
WCDMA / HSPA+ Band V	826.4 - 846.6	0.74		-3.96		-1.93		-5.75	

Note: Antenna information is provided by the applicant.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

Mode	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	25.35	EIRP	0.343	0M00F9W
HSDPA Band II	25.35	EIRP	0.343	0M00F9W
HSUPA Band II	25.40	EIRP	0.347	0M00F9W
WCDMA Band IV	25.38	EIRP	0.345	0M00F9W
HSDPA Band IV	25.43	EIRP	0.349	0M00F9W
HSUPA Band IV	25.42	EIRP	0.348	0M00F9W
WCDMA Band V	21.99	ERP	0.158	0M00F9W
HSDPA Band V	21.94	ERP	0.156	0M00F9W
HSUPA Band V	21.89	ERP	0.155	0M00F9W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	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	
		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 indica- tion where measurements occurred in specific test site and address.				

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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

Radiated emission below 30MHz is measured in a 9m*6m*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.

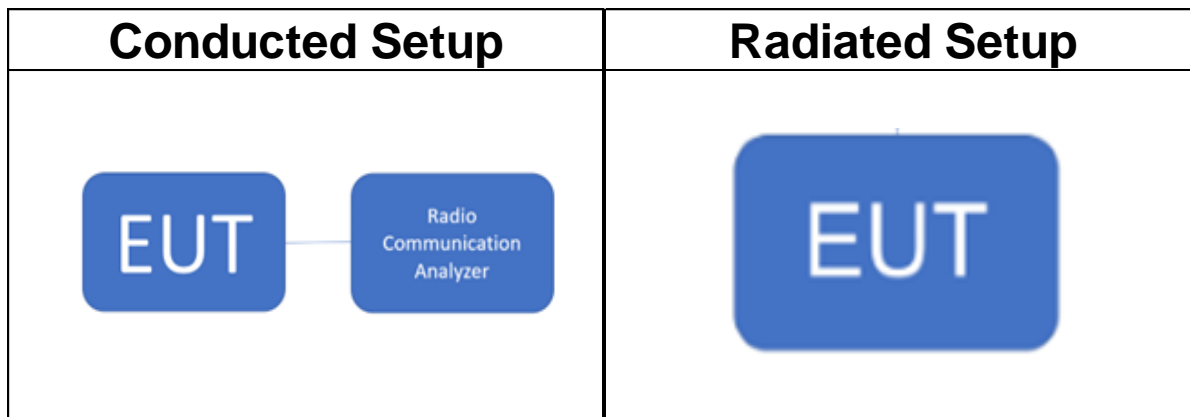
Note:

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

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3 TEST CONFIGURATION



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

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4 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a) §24.232(c) §27.50(d)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant

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5 DESCRIPTION OF TEST MODES

5.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. 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.

5.2 Measurement Configuration

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	v	v	v
EIRP	Band II	v	v	v
	Band IV	v	v	v
RADIATED EMISSION	Band II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v

UTRA Band	Test Channel	Modulation
WCDMA 2	9262	QPSK
WCDMA 2	9400	QPSK
WCDMA 2	9538	QPSK
WCDMA 4	1312	QPSK
WCDMA 4	1413	QPSK
WCDMA 4	1513	QPSK
WCDMA 5	4132	QPSK
WCDMA 5	4183	QPSK
WCDMA 5	4233	QPSK

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6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 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
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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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7 MEASUREMENT EQUIPMENT USED

7.1 Conducted Measurement

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Radio Communication Analyzer	Anritsu	MT8820C	6201061014	08/29/2024	08/28/2025

7.2 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1G High Pass Filter	Micro-Tronics	HPM50108	32	12/11/2024	12/10/2025
2G High Pass Filter	Micro-Tronics	HPM50110	36	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 1700-2000	EWT	EWT-54-0038	M1	12/11/2024	12/10/2025
Band Reject Filter 800-1000	EWT	EWT-54-0037	M3R	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000 +SUCOFLEX 104PEA +EMC107-SM-SM-1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	Schwarzbeck	BBHA9170	185	08/15/2024	08/14/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	03/26/2024	03/25/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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8 MAXIMUM OUTPUT POWER

8.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

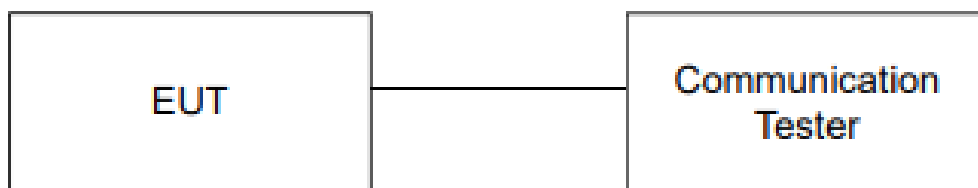
FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a communication tester.

Transmitter output was read off the communication tester in dBm.

The power output at the transmitter antenna port was determined by adding the value of the attenuator to the communication tester reading.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and RMC 12.2kps is used for Base station setting.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

Conducted average power is obtained from the simulator telecommunication test set.

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

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

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

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

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8.5 Measurement Results

8.5.1 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm. RMC 12.2kps is used for this testing.

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.35	2.00	23.20	25.35	33.00	-7.65
	1880.0	9400	22.96	2.00	22.81	24.96	33.00	-8.04
	1907.6	9538	22.91	2.00	22.76	24.91	33.00	-8.09
HSDPA	1852.4	9262	23.35	2.00	23.20	25.35	33.00	-7.65
	1880.0	9400	22.91	2.00	22.76	24.91	33.00	-8.09
	1907.6	9538	23.10	2.00	22.95	25.10	33.00	-7.90
HSUPA	1852.4	9262	23.34	2.00	23.19	25.34	33.00	-7.66
	1880.0	9400	23.23	2.00	23.08	25.23	33.00	-7.77
	1907.6	9538	23.40	2.00	23.25	25.40	33.00	-7.60

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.10	2.28	23.23	25.38	30.00	-4.62
	1732.6	1413	23.02	2.28	23.15	25.30	30.00	-4.70
	1752.6	1513	23.01	2.28	23.14	25.29	30.00	-4.71
HSDPA	1712.4	1312	23.15	2.28	23.28	25.43	30.00	-4.57
	1732.6	1413	23.05	2.28	23.18	25.33	30.00	-4.67
	1752.6	1513	23.02	2.28	23.15	25.30	30.00	-4.70
HSUPA	1712.4	1312	23.14	2.28	23.27	25.42	30.00	-4.58
	1732.6	1413	23.03	2.28	23.16	25.31	30.00	-4.69
	1752.6	1513	23.05	2.28	23.18	25.33	30.00	-4.67

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.40	0.74	21.99	24.14	38.50	-14.36
	836.6	4183	23.27	0.74	21.86	24.01	38.50	-14.49
	846.6	4233	23.13	0.74	21.72	23.87	38.50	-14.63
HSDPA	826.4	4132	23.35	0.74	21.94	24.09	38.50	-14.41
	836.6	4183	23.27	0.74	21.86	24.01	38.50	-14.49
	846.6	4233	23.20	0.74	21.79	23.94	38.50	-14.56
HSUPA	826.4	4132	23.05	0.74	21.64	23.79	38.50	-14.71
	836.6	4183	23.30	0.74	21.89	24.04	38.50	-14.46
	846.6	4233	23.22	0.74	21.81	23.96	38.50	-14.54

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8.5.2 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

8.5.3 HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262	9400	9538
HSDPA II	1	23.17	23.30	23.26
	2	23.20	23.32	23.30
	3	22.71	22.81	22.80
	4	22.68	22.78	22.77
Mode	Sub test	Avg. Power (dBm) Channel		
		1312	1413	1513
HSDPA IV	1	23.19	23.10	23.07
	2	23.20	23.09	23.07
	3	22.73	22.63	22.58
	4	22.70	22.58	22.54

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSDPA V	1	23.28	23.27	23.17
	2	23.39	23.27	23.15
	3	22.87	23.04	22.98
	4	22.86	22.99	22.89

8.5.4 HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262	9400	9538
HSUPA II	1	22.68	22.83	22.81
	2	23.23	23.35	23.34
	3	22.19	22.32	22.33
	4	23.18	23.33	23.31
	5	22.17	22.31	22.30

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312	1413	1513
HSUPA IV	1	22.65	22.55	22.54
	2	23.19	23.10	23.07
	3	22.16	22.06	22.03
	4	23.17	23.07	23.07
	5	22.14	22.07	22.03
Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSUPA V	1	22.94	22.72	22.68
	2	23.41	23.24	23.18
	3	22.40	22.48	22.46
	4	23.38	23.19	23.16
	5	22.42	22.18	22.17

8.5.5 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

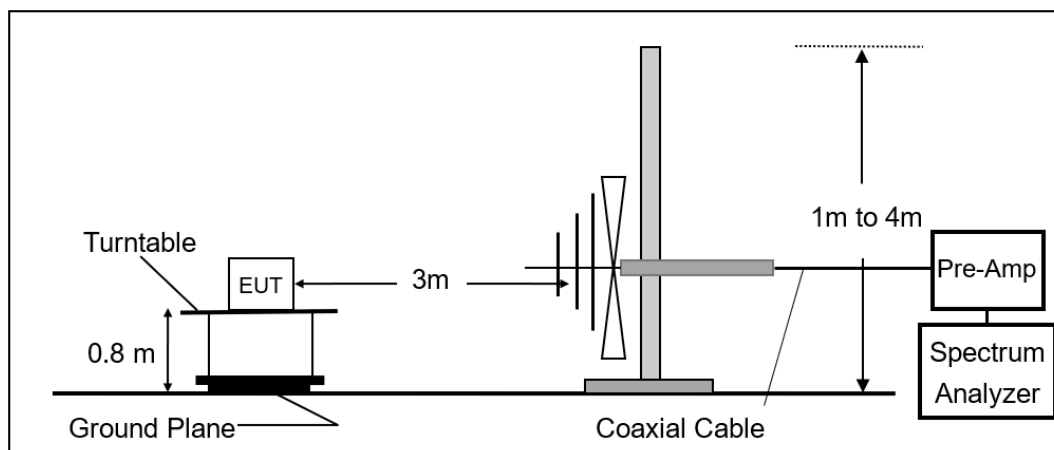
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

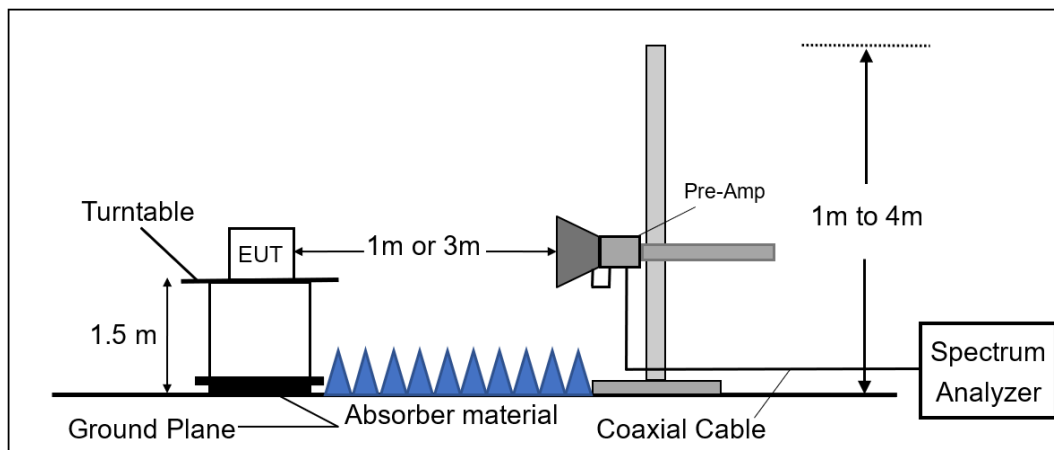
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

9.2 EUT Setup

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



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



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9.3 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

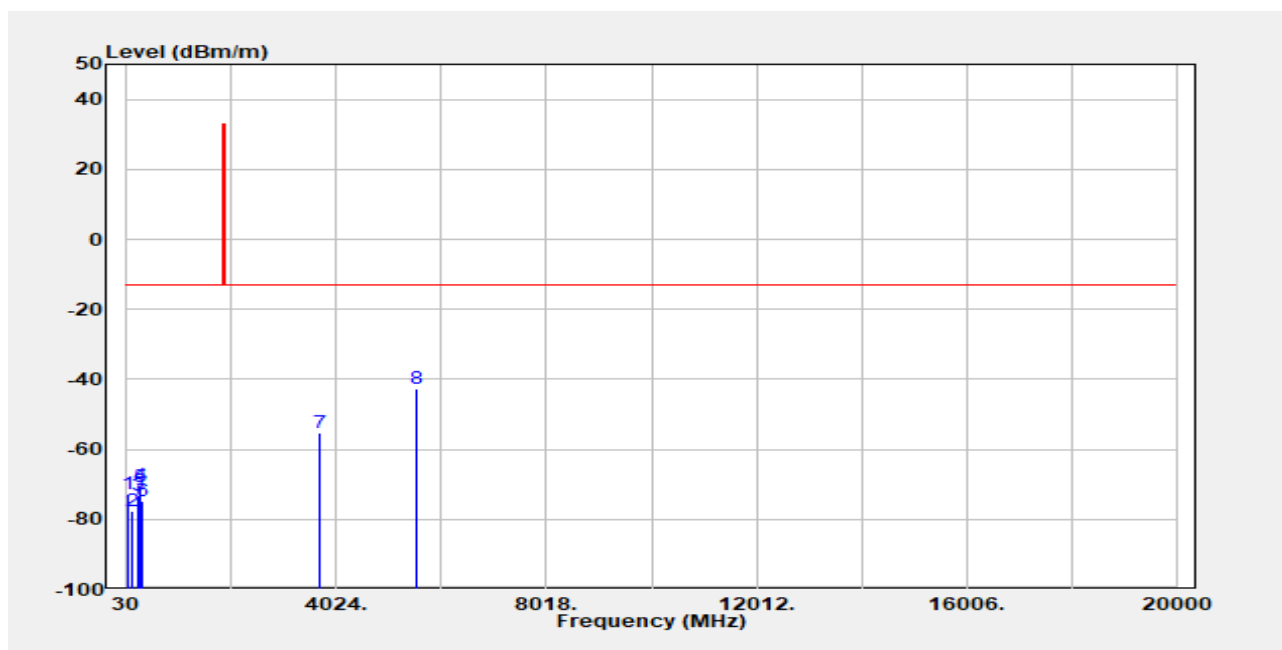
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9.4 Measurement Result:

Report Number :TERF2412003862ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1852.4 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



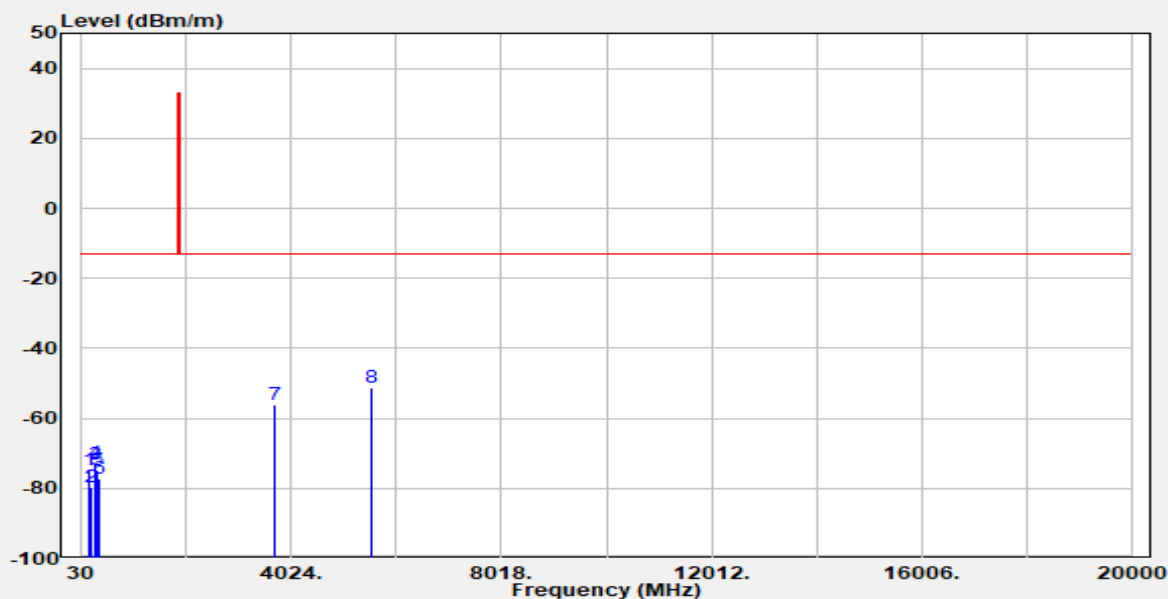
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
66.86	-72.61	-63.41	-7.70	-1.50	-13.00	-59.61
135.73	-77.71	-73.81	-1.77	-2.13	-13.00	-64.71
241.46	-73.13	-73.97	3.67	-2.84	-13.00	-60.13
271.53	-70.16	-70.91	3.77	-3.02	-13.00	-57.16
298.69	-70.74	-71.40	3.81	-3.15	-13.00	-57.74
325.85	-74.89	-75.50	3.91	-3.30	-13.00	-61.89
3704.80	-55.34	-56.48	12.50	-11.36	-13.00	-42.34
5557.20	-42.52	-41.48	13.03	-14.07	-13.00	-29.52

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Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :NB Plane
Test Frequency :1852.4 MHz

Test Site :SAC 3
Test Date :2025-01-03
Temp./Humi. :20.2°C/53%
Antenna Pol. :Horizontal
Engineer :Nick Lin



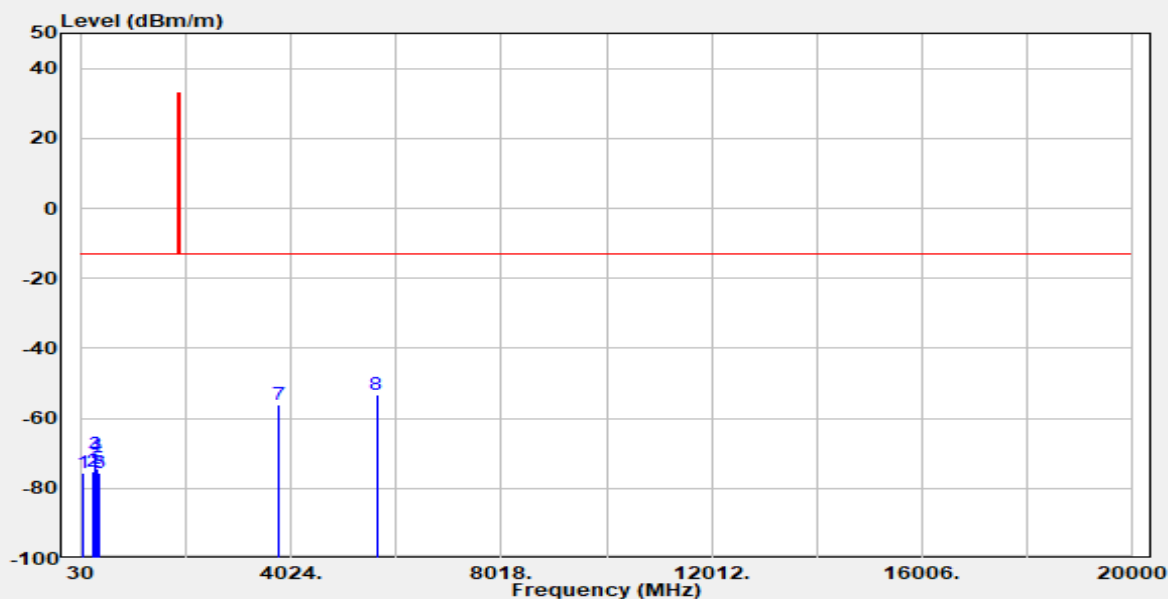
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
157.07	-74.70	-71.21	-1.20	-2.29	-13.00	-61.70
217.21	-79.77	-81.70	4.62	-2.69	-13.00	-66.77
271.53	-73.16	-73.91	3.77	-3.02	-13.00	-60.16
298.69	-72.64	-73.30	3.81	-3.15	-13.00	-59.64
325.85	-74.85	-75.46	3.91	-3.30	-13.00	-61.85
353.01	-77.11	-77.92	4.23	-3.43	-13.00	-64.11
3704.80	-56.12	-57.27	12.50	-11.36	-13.00	-43.12
5557.20	-51.42	-50.38	13.03	-14.07	-13.00	-38.42

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



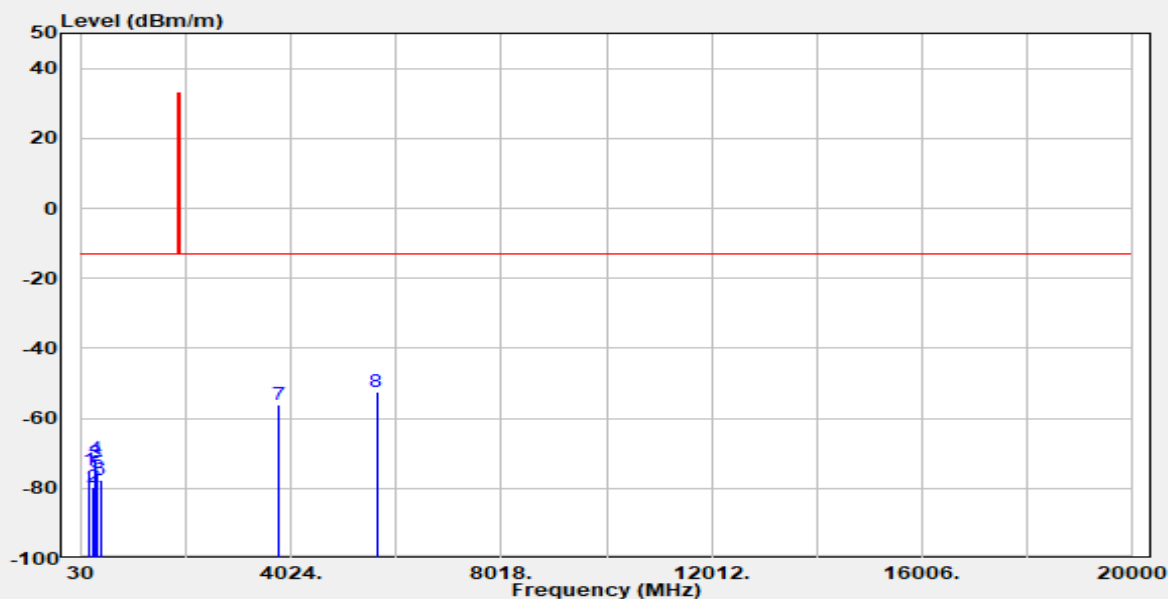
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
67.83	-75.42	-66.32	-7.59	-1.51	-13.00	-62.42
237.58	-75.03	-76.05	3.83	-2.82	-13.00	-62.03
271.53	-70.51	-71.26	3.77	-3.02	-13.00	-57.51
298.69	-70.90	-71.56	3.81	-3.15	-13.00	-57.90
325.85	-74.23	-74.84	3.91	-3.30	-13.00	-61.23
353.01	-75.78	-76.59	4.23	-3.43	-13.00	-62.78
3760.00	-56.14	-57.19	12.50	-11.44	-13.00	-43.14
5640.00	-53.14	-52.25	13.28	-14.17	-13.00	-40.14

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



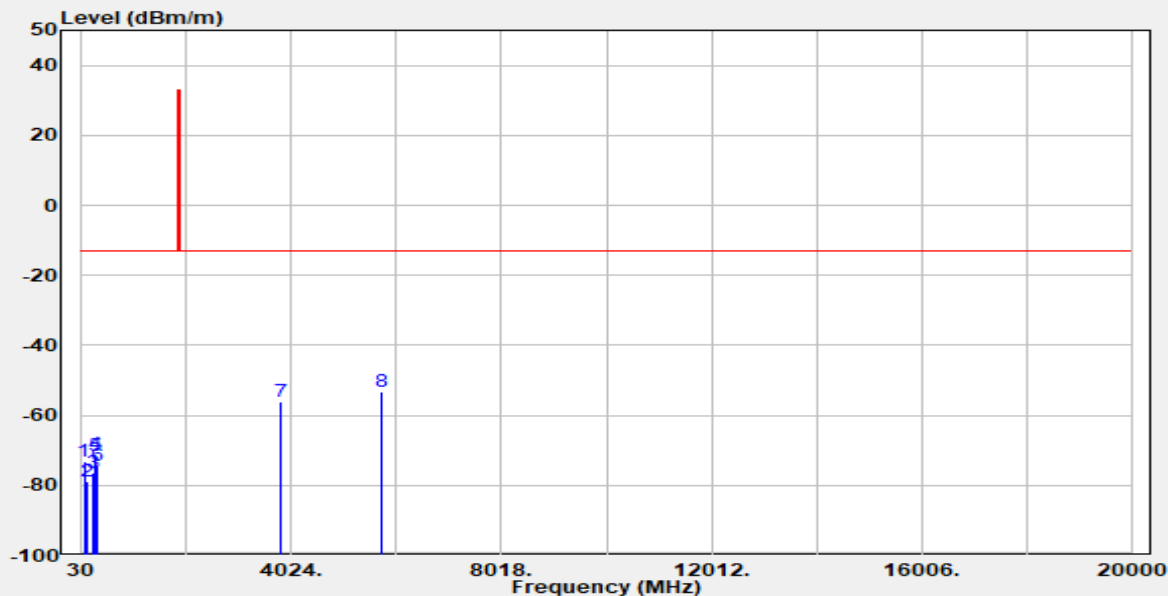
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
157.07	-74.90	-71.41	-1.20	-2.29	-13.00	-61.90
240.49	-79.59	-80.43	3.68	-2.83	-13.00	-66.59
271.53	-72.83	-73.58	3.77	-3.02	-13.00	-59.83
298.69	-71.63	-72.29	3.81	-3.15	-13.00	-58.63
325.85	-75.78	-76.39	3.91	-3.30	-13.00	-62.78
380.17	-77.63	-78.05	3.98	-3.56	-13.00	-64.63
3760.00	-56.19	-57.25	12.50	-11.44	-13.00	-43.19
5640.00	-52.52	-51.63	13.28	-14.17	-13.00	-39.52

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1907.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.68	-73.29	-65.91	-5.82	-1.56	-13.00	-60.29
123.12	-79.02	-75.38	-1.61	-2.03	-13.00	-66.02
229.82	-76.56	-78.52	4.72	-2.77	-13.00	-63.56
271.53	-71.01	-71.76	3.77	-3.02	-13.00	-58.01
298.69	-71.60	-72.26	3.81	-3.15	-13.00	-58.60
325.85	-74.42	-75.03	3.91	-3.30	-13.00	-61.42
3815.20	-56.02	-56.97	12.47	-11.52	-13.00	-43.02
5722.80	-53.29	-52.11	13.10	-14.28	-13.00	-40.29

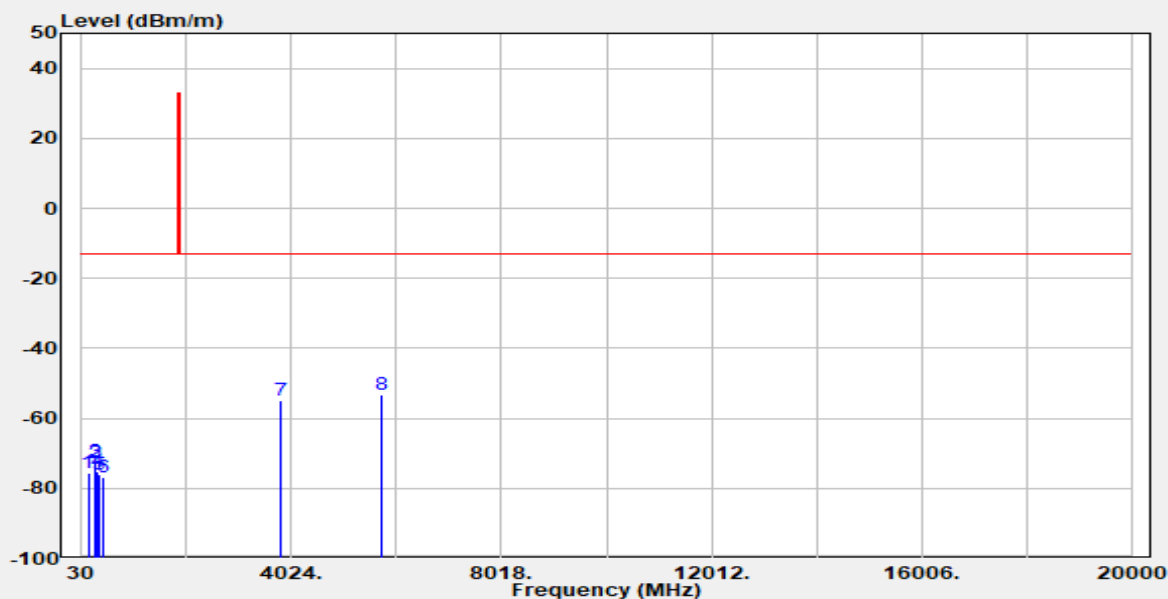
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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1907.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



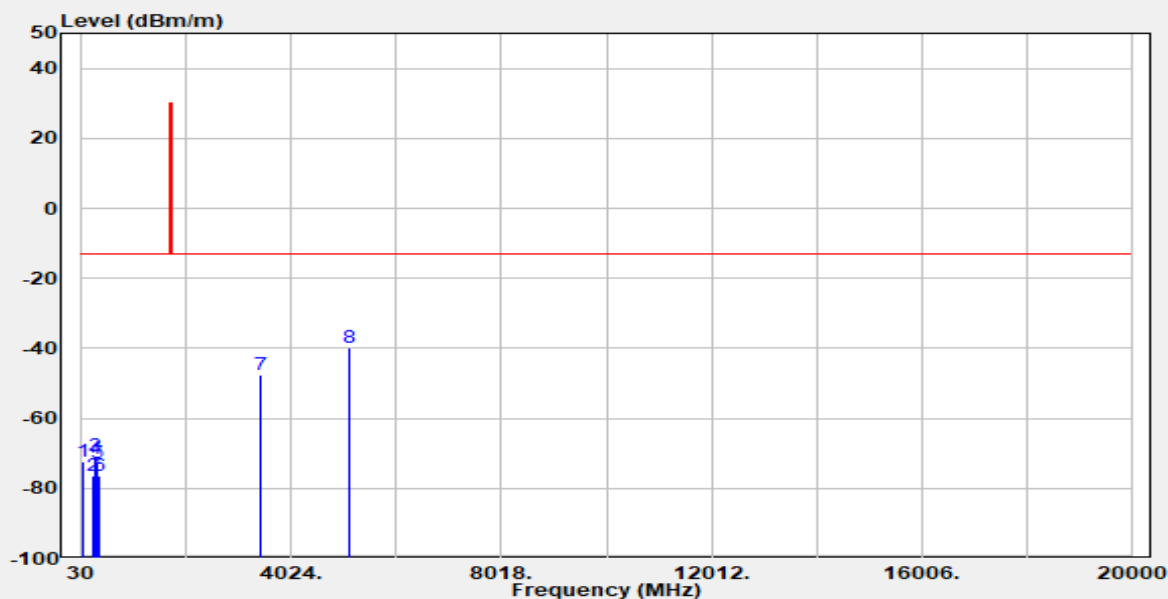
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.28	-75.73	-71.80	-1.68	-2.24	-13.00	-62.73
271.53	-72.75	-73.50	3.77	-3.02	-13.00	-59.75
298.69	-72.17	-72.83	3.81	-3.15	-13.00	-59.17
325.85	-75.37	-75.98	3.91	-3.30	-13.00	-62.37
353.01	-76.14	-76.95	4.23	-3.43	-13.00	-63.14
449.04	-76.94	-76.78	3.70	-3.87	-13.00	-63.94
3815.20	-54.84	-55.78	12.47	-11.52	-13.00	-41.84
5722.80	-53.16	-51.98	13.10	-14.28	-13.00	-40.16

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1712.4 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



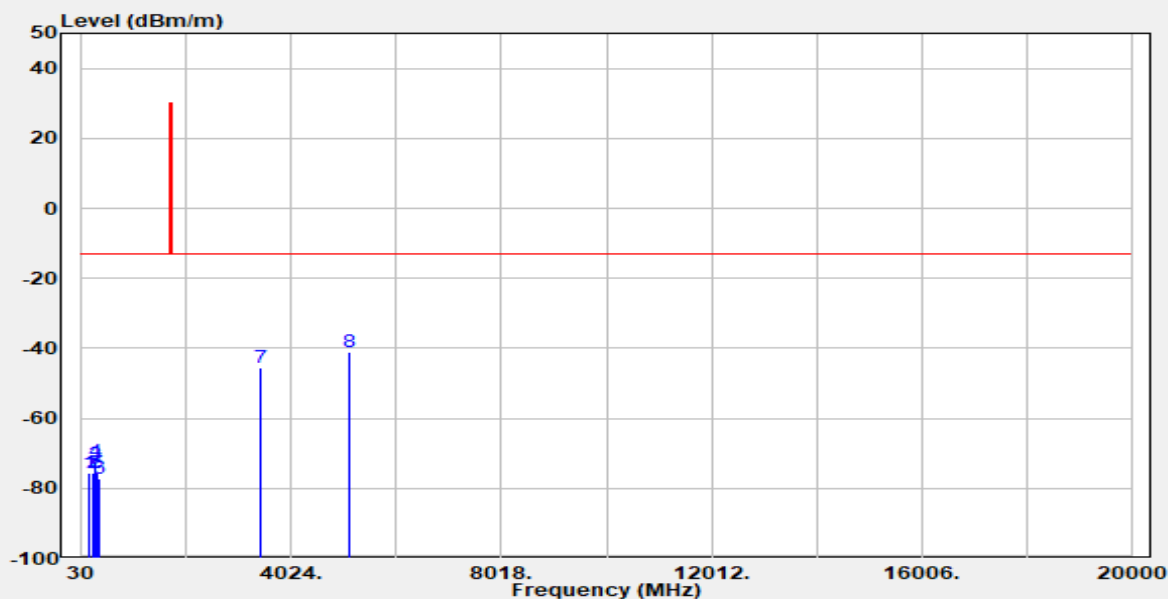
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
67.83	-72.54	-63.45	-7.59	-1.51	-13.00	-59.54
229.82	-76.47	-78.42	4.72	-2.77	-13.00	-63.47
271.53	-70.87	-71.62	3.77	-3.02	-13.00	-57.87
298.69	-71.71	-72.36	3.81	-3.15	-13.00	-58.71
325.85	-72.70	-73.31	3.91	-3.30	-13.00	-59.70
353.01	-76.22	-77.03	4.23	-3.43	-13.00	-63.22
3424.80	-47.49	-49.18	12.60	-10.91	-13.00	-34.49
5137.20	-39.83	-38.74	12.40	-13.49	-13.00	-26.83

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1712.4 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



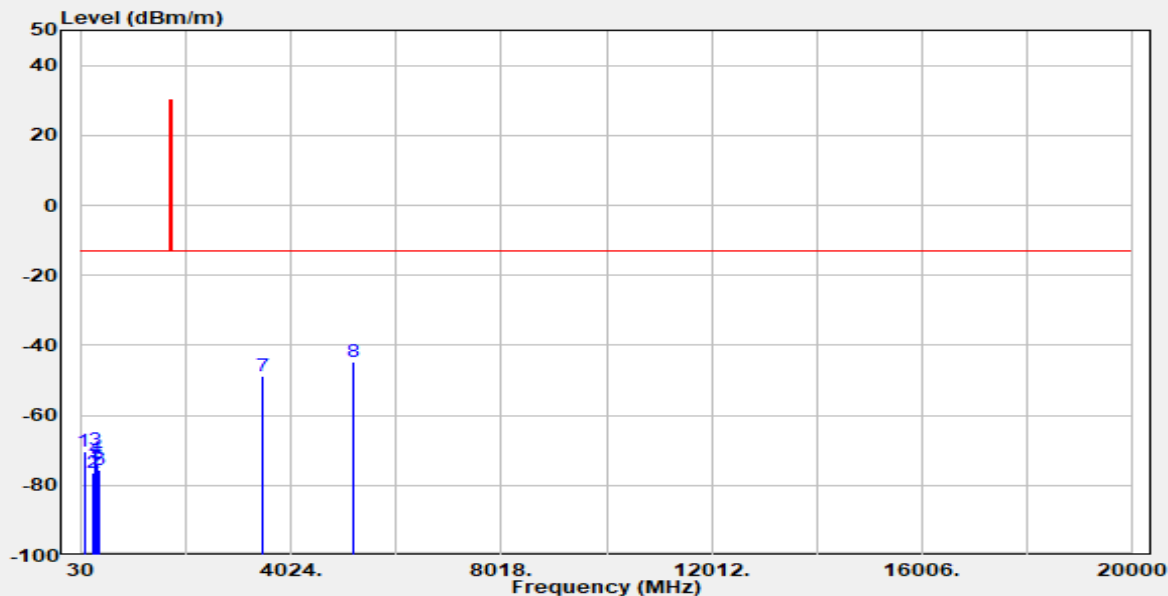
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
155.13	-75.68	-71.91	-1.49	-2.28	-13.00	-62.68
234.67	-75.64	-76.89	4.05	-2.80	-13.00	-62.64
271.53	-73.20	-73.95	3.77	-3.02	-13.00	-60.20
298.69	-72.19	-72.85	3.81	-3.15	-13.00	-59.19
325.85	-75.52	-76.13	3.91	-3.30	-13.00	-62.52
353.01	-77.17	-77.98	4.23	-3.43	-13.00	-64.17
3424.80	-45.53	-47.22	12.60	-10.91	-13.00	-32.53
5137.20	-40.97	-39.88	12.40	-13.49	-13.00	-27.97

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1732.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.68	-70.18	-62.80	-5.82	-1.56	-13.00	-57.18
229.82	-76.36	-78.32	4.72	-2.77	-13.00	-63.36
271.53	-69.95	-70.70	3.77	-3.02	-13.00	-56.95
298.69	-72.19	-72.85	3.81	-3.15	-13.00	-59.19
325.85	-73.91	-74.51	3.91	-3.30	-13.00	-60.91
353.01	-75.66	-76.47	4.23	-3.43	-13.00	-62.66
3465.20	-48.85	-50.42	12.54	-10.97	-13.00	-35.85
5197.80	-44.91	-43.93	12.59	-13.58	-13.00	-31.91

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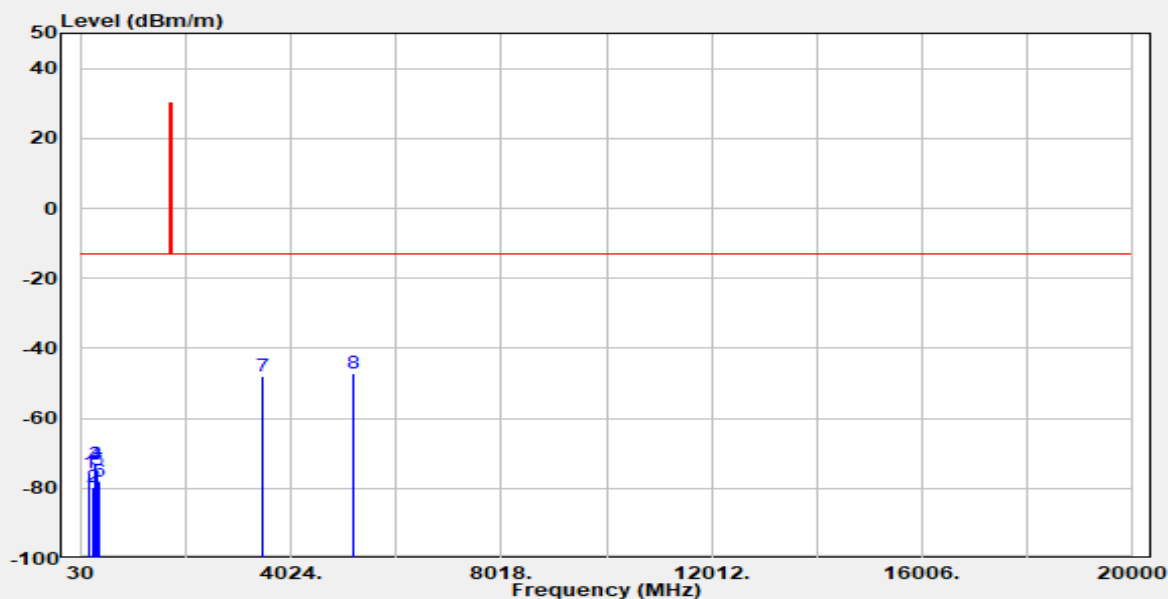
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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1732.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



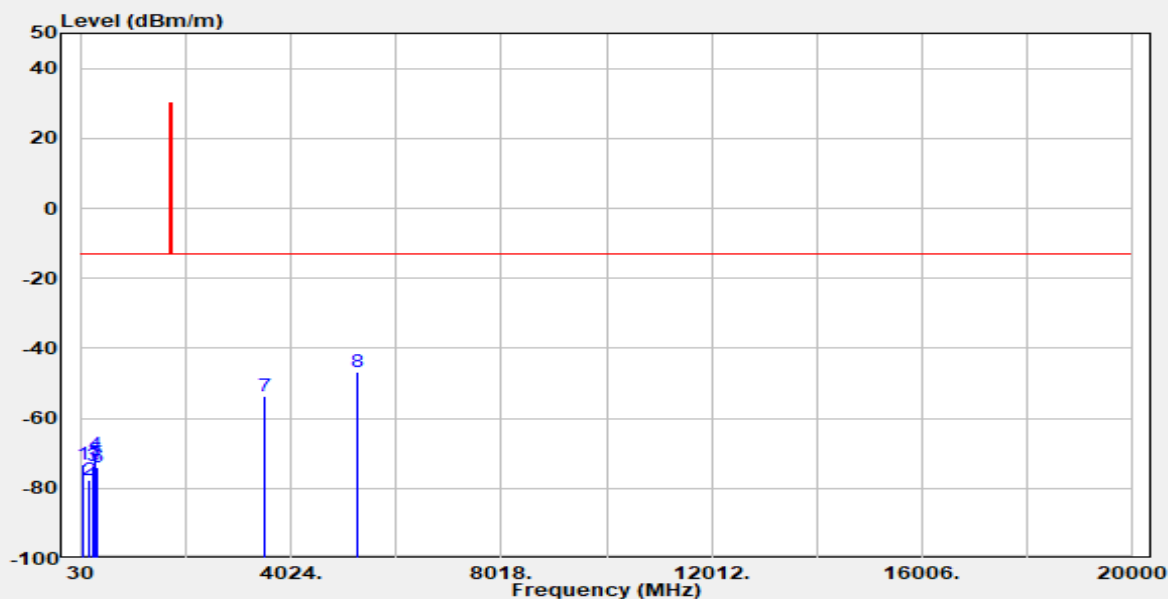
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
152.22	-75.67	-71.87	-1.55	-2.26	-13.00	-62.67
241.46	-79.57	-80.41	3.67	-2.84	-13.00	-66.57
271.53	-72.97	-73.72	3.77	-3.02	-13.00	-59.97
298.69	-73.21	-73.87	3.81	-3.15	-13.00	-60.21
325.85	-74.78	-75.39	3.91	-3.30	-13.00	-61.78
365.62	-77.86	-78.59	4.22	-3.49	-13.00	-64.86
3465.20	-47.77	-49.33	12.54	-10.97	-13.00	-34.77
5197.80	-47.23	-46.25	12.59	-13.58	-13.00	-34.23

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1752.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



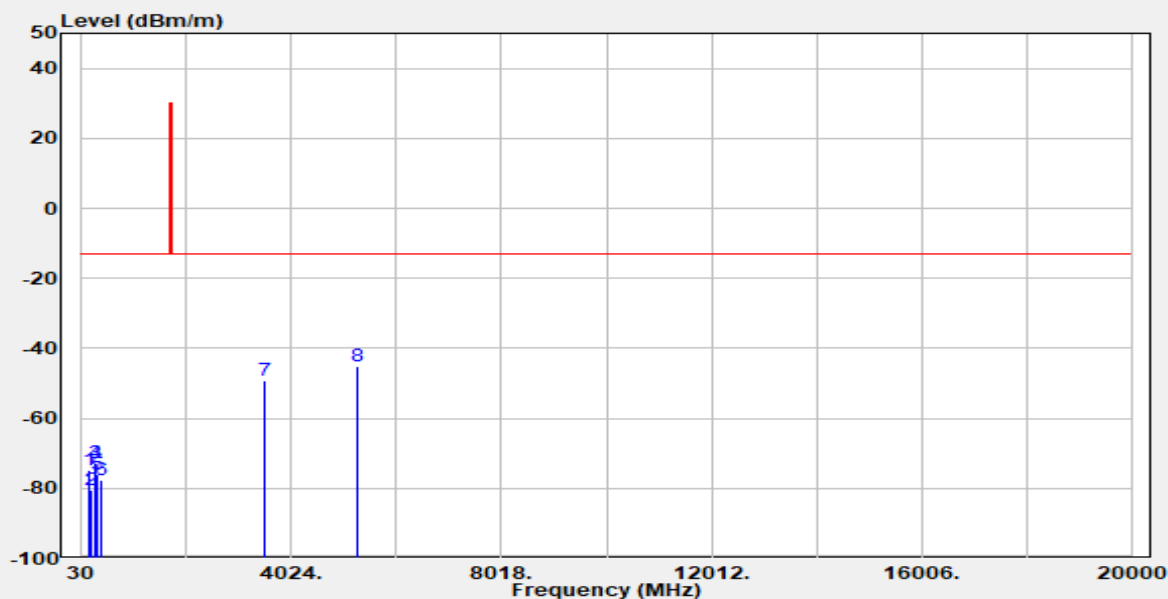
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-73.27	-65.05	-6.69	-1.53	-13.00	-60.27
176.47	-77.48	-75.76	0.71	-2.43	-13.00	-64.48
236.61	-73.54	-74.62	3.90	-2.81	-13.00	-60.54
271.53	-70.44	-71.19	3.77	-3.02	-13.00	-57.44
298.69	-72.15	-72.81	3.81	-3.15	-13.00	-59.15
325.85	-74.09	-74.70	3.91	-3.30	-13.00	-61.09
3505.20	-53.70	-55.04	12.38	-11.04	-13.00	-40.70
5257.80	-46.75	-46.01	12.92	-13.66	-13.00	-33.75

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :NB Plane
 Test Frequency :1752.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



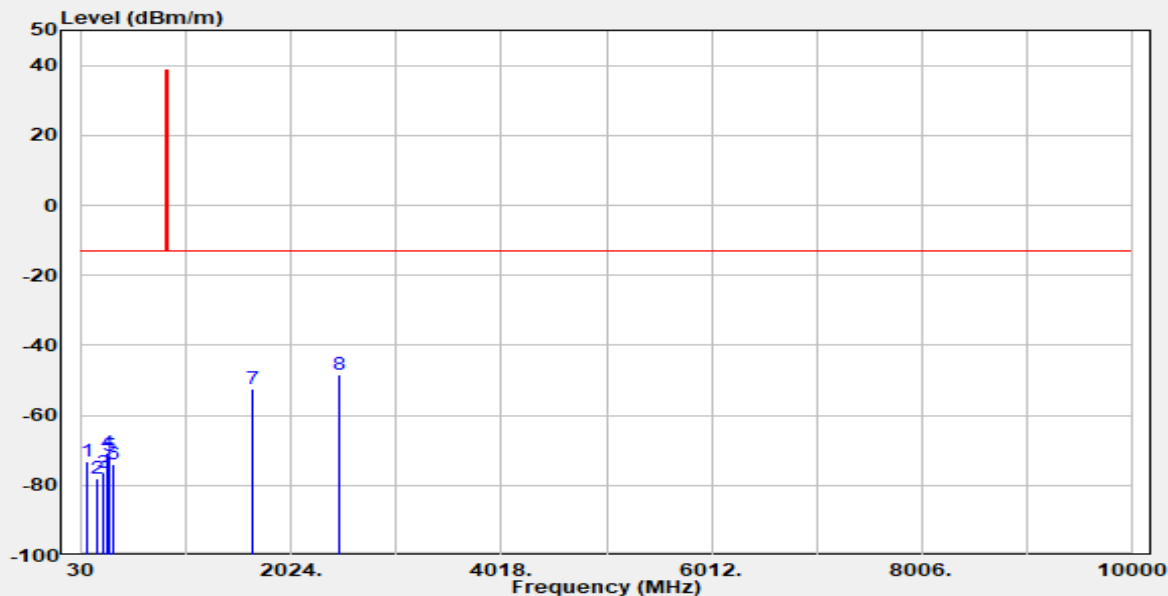
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
157.07	-74.95	-71.46	-1.20	-2.29	-13.00	-61.95
222.06	-80.33	-82.46	4.85	-2.72	-13.00	-67.33
271.53	-72.79	-73.54	3.77	-3.02	-13.00	-59.79
298.69	-72.73	-73.38	3.81	-3.15	-13.00	-59.73
325.85	-75.99	-76.60	3.91	-3.30	-13.00	-62.99
409.27	-77.59	-77.92	4.02	-3.69	-13.00	-64.59
3505.20	-49.05	-50.40	12.38	-11.04	-13.00	-36.05
5257.80	-45.20	-44.45	12.92	-13.66	-13.00	-32.20

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B5
 Test Mode :Tx
 EUT Pol :NB Mode
 Test Frequency :826.4 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-73.04	-66.15	-5.32	-1.57	-13.00	-60.04
179.38	-77.93	-76.64	1.16	-2.45	-13.00	-64.93
233.70	-76.59	-77.98	4.18	-2.79	-13.00	-63.59
271.53	-70.54	-71.29	3.77	-3.02	-13.00	-57.54
298.69	-71.61	-72.26	3.81	-3.15	-13.00	-58.61
325.85	-74.12	-74.73	3.91	-3.30	-13.00	-61.12
1652.80	-52.63	-54.69	9.53	-7.47	-13.00	-39.63
2479.20	-48.27	-49.55	10.51	-9.23	-13.00	-35.27

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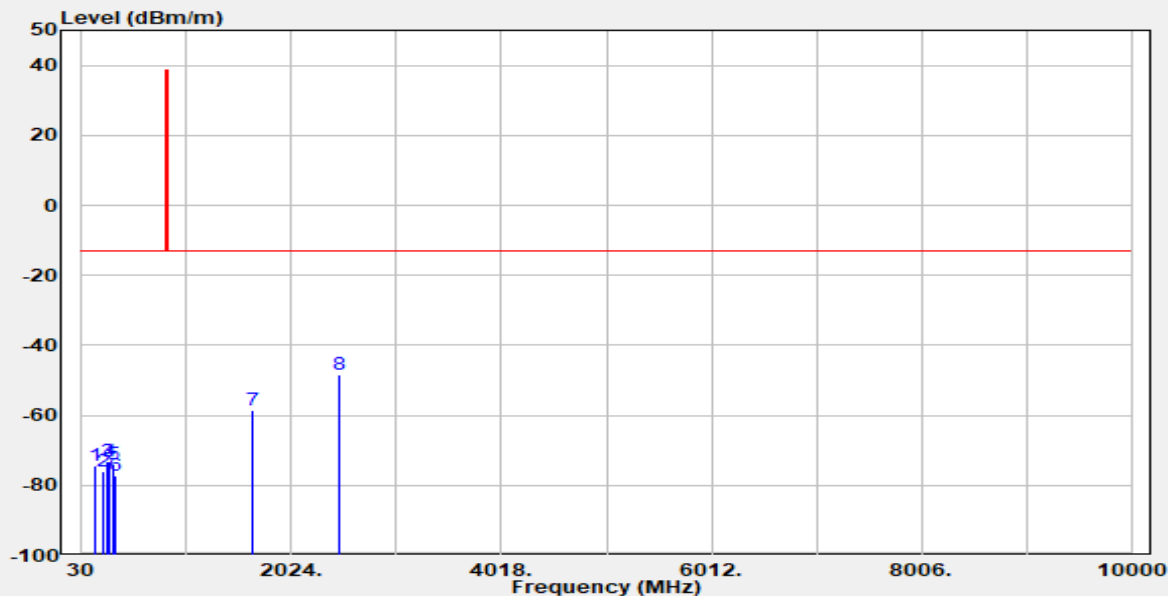
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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B5
 Test Mode :Tx
 EUT Pol :NB Mode
 Test Frequency :826.4 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
153.19	-74.50	-70.80	-1.44	-2.26	-13.00	-61.50
240.49	-76.07	-76.92	3.68	-2.83	-13.00	-63.07
271.53	-73.15	-73.90	3.77	-3.02	-13.00	-60.15
298.69	-73.26	-73.92	3.81	-3.15	-13.00	-60.26
325.85	-73.82	-74.43	3.91	-3.30	-13.00	-60.82
353.01	-77.37	-78.18	4.23	-3.43	-13.00	-64.37
1652.80	-58.50	-60.56	9.53	-7.47	-13.00	-45.50
2479.20	-48.44	-49.72	10.51	-9.23	-13.00	-35.44

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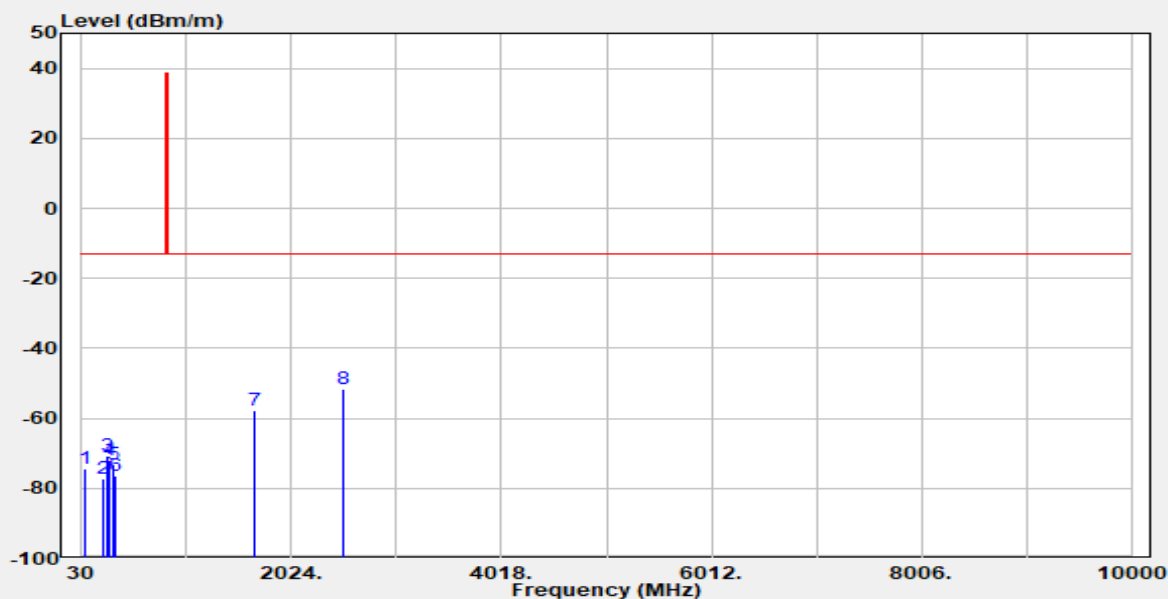
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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B5
 Test Mode :Tx
 EUT Pol :NB Mode
 Test Frequency :836.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



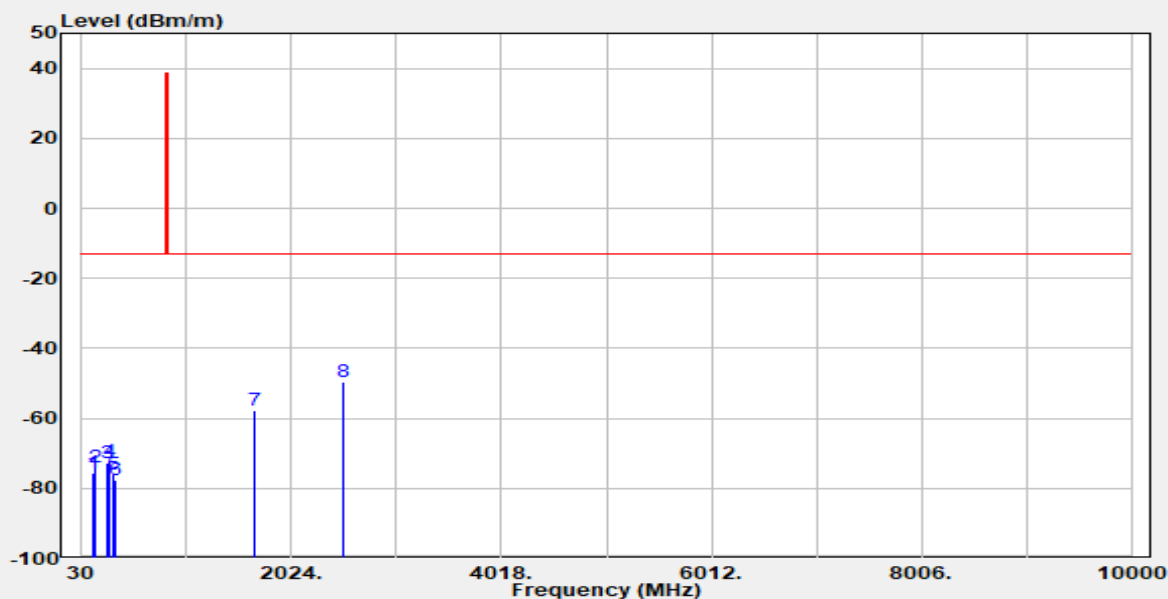
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-74.42	-65.22	-7.70	-1.50	-13.00	-61.42
227.88	-77.20	-79.28	4.84	-2.76	-13.00	-64.20
271.53	-70.66	-71.41	3.77	-3.02	-13.00	-57.66
298.69	-72.04	-72.69	3.81	-3.15	-13.00	-59.04
325.85	-73.00	-73.61	3.91	-3.30	-13.00	-60.00
353.01	-76.50	-77.31	4.23	-3.43	-13.00	-63.50
1673.20	-57.58	-59.79	9.73	-7.52	-13.00	-44.58
2509.80	-51.48	-52.89	10.70	-9.29	-13.00	-38.48

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B5
 Test Mode :Tx
 EUT Pol :NB Mode
 Test Frequency :836.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



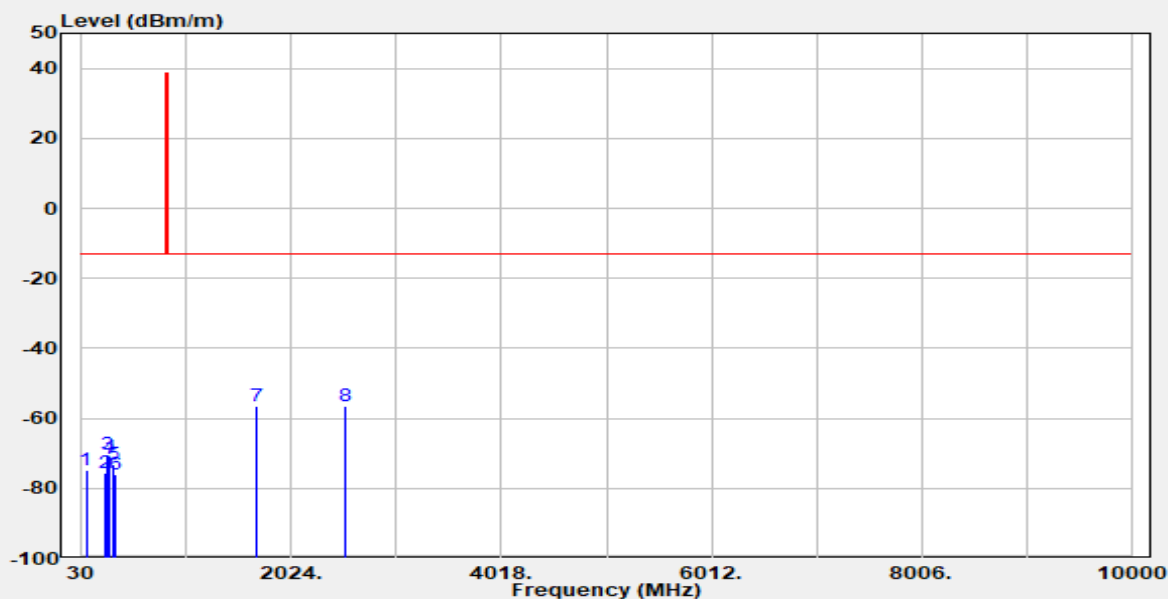
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
135.73	-75.61	-71.71	-1.77	-2.13	-13.00	-62.61
156.10	-74.10	-70.48	-1.34	-2.28	-13.00	-61.10
271.53	-72.92	-73.67	3.77	-3.02	-13.00	-59.92
298.69	-72.27	-72.93	3.81	-3.15	-13.00	-59.27
325.85	-76.15	-76.76	3.91	-3.30	-13.00	-63.15
353.01	-77.54	-78.34	4.23	-3.43	-13.00	-64.54
1673.20	-57.61	-59.82	9.73	-7.52	-13.00	-44.61
2509.80	-49.79	-51.20	10.70	-9.29	-13.00	-36.79

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Report Number :TERF2412003862ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :NB Mode
Test Frequency :846.6 MHz

Test Site :SAC 3
Test Date :2025-01-03
Temp./Humi. :20.2°C/53%
Antenna Pol. :Vertical
Engineer :Nick Lin



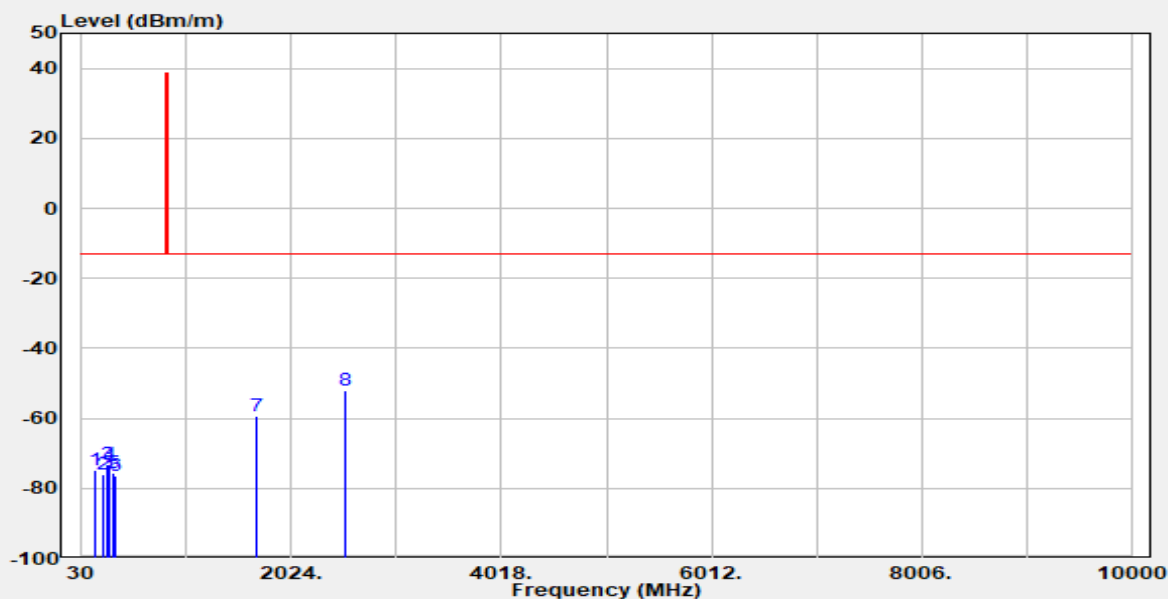
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
70.74	-74.89	-66.90	-6.45	-1.54	-13.00	-61.89
248.25	-75.59	-76.35	3.65	-2.88	-13.00	-62.59
271.53	-70.48	-71.23	3.77	-3.02	-13.00	-57.48
298.69	-71.11	-71.76	3.81	-3.15	-13.00	-58.11
325.85	-73.35	-73.96	3.91	-3.30	-13.00	-60.35
353.01	-75.89	-76.70	4.23	-3.43	-13.00	-62.89
1693.20	-56.45	-58.82	9.93	-7.56	-13.00	-43.45
2539.80	-56.46	-57.71	10.60	-9.35	-13.00	-43.46

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Report Number :TERF2412003862ER
 Operation Mode :WCDMA B5
 Test Mode :Tx
 EUT Pol :NB Mode
 Test Frequency :846.6 MHz

Test Site :SAC 3
 Test Date :2025-01-03
 Temp./Humi. :20.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
153.19	-74.62	-70.92	-1.44	-2.26	-13.00	-61.62
241.46	-76.18	-77.02	3.67	-2.84	-13.00	-63.18
271.53	-73.24	-73.99	3.77	-3.02	-13.00	-60.24
298.69	-73.13	-73.79	3.81	-3.15	-13.00	-60.13
325.85	-75.59	-76.20	3.91	-3.30	-13.00	-62.59
353.01	-76.47	-77.28	4.23	-3.43	-13.00	-63.47
1693.20	-59.39	-61.76	9.93	-7.56	-13.00	-46.39
2539.80	-51.86	-53.10	10.60	-9.35	-13.00	-38.86

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10 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

11 PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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