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# 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: TERF2412003860ER

FCC ID B94HNI62PAR

Date of EUT Received: November 29, 2024

Date of Test: December 3, 2024~January 2, 2025

**Issue Date:** February 5, 2025

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 ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E.

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	
TERF2412003860ER	00	Original	February 5, 2025	Karen Huang		

#### Note:

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

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### **GENERAL PRODUCT INFORMATION**

### **Product Description**

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I62C
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0004770LN9
Integrated WWAN Module	Brand Name: THINGSX Model Name: TX520-GL
Power Supply:	5 / 9 / 12 / 15 / 20Vdc from adapter or 11.58Vdc from battery
Test Software (Name/Version)	Default(connection with call box)

#### 1.2 **Operation Frequency Range**

Operating Frequency (MHz)					
GSM/GPRS/EDGE 850 824.2 - 848.8					
GSM/GPRS/EDGE 1900	1850.2	-	1909.8		

#### 1.3 **Antenna Designation**

Antenna Type	Supplier	Antenna Model No.	NB / TB Mode	Remark
	Vendor 1	6036B0370401 (00-330270505L)	NB	Ant0
PIFA	vendor i	6036B0370401 (00-330270505L)	TB	Ant1
PIFA	\/andar 0	6036B0366201 (81ELBF15.G36)	NB	Ant2
	Vendor 2	6036B0366201 (81ELBF15.G36)	TB	Ant3
Note: Transmission frequencies in this test report are only available by the above antenna(s).				

Mode	Frequency	Peak Antenna Gain (dBi)			
	(MHz)	Ant0	Ant1	Ant2	Ant3
GSM/GPRS/EDGE 850	824.2 - 848.8	0.74	-3.96	-1.93	-5.75
GSM/GPRS/EDGE 1900	1850.2 - 1909.8	-0.61	-2.73	-1.4	-4.44

**Note:** Antenna information is provided by the applicant.

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#### 1.4 Max ERP/EIRP Power Measurement Result

Mode	ERP / EIRP (dBm)		W
GPRS 850	31.81	ERP	1.517
EDGE 850	24.35	ERP	0.272
GPRS 1900	28.33	EIRP	0.681
EDGE 1900	24.87	EIRP	0.307

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# 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E ANSI C63.26-2015 KDB971168 D01 Power Meas license Digital System v03r01 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
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Bood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TW3702
	raiper City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	1	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	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.

# 1.7 Special Accessories

No special accessories were used during testing.

### 1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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#### 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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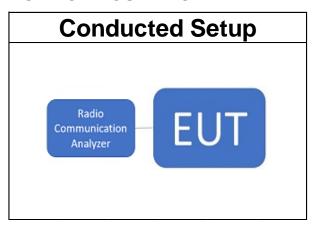
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# **TEST CONFIGURATION**





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

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# SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant

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### **DESCRIPTION OF TEST MODES**

#### 5.1 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 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	GSM	Test Channel		
rest items	Bands	L	M	Н
ERP	850	٧	V	٧
EIRP	1900	٧	٧	٧
RADIATED EMISSION	850	٧	٧	٧
KADIATED EMISSION	1900	٧	٧	٧

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### 6 MEASUREMENT UNCERTAINTY

Test Items		certair	nty
Power Density	+/-	0.61	dB
RF Power Output	+/-	0.97	dB
ERP/ EIRP measurement	+/-	2.15	dB
ERP/ EIRP measurement	+/-	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					
	+/-	1.89	dB	9kHz~30MHz	
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz	
Polarization. Vertical	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
Dalawination, Hawinamtal	+/-	1.89	dB	9kHz~30MHz	
	+/-	4.02	dB	30MHz - 1000MHz	
Polarization: Horizontal	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
	+/-	2	dB	33GHz-50GHz	
	+/-	1.59	dB	50GHz-60GHz	
Radiated Spurious Emission	+/-	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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# **MEASUREMENT EQUIPMENT USED**

#### 7.1 **Conducted Measurement**

	С	onducted Emission 1	Test Site: Conducted	3	
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								
				LAST CAL.	CAL DUE.				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	(mm/dd/yyyy)	(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	MT8815B	6200711454	04/21/2024	04/20/2025				
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				

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

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#### **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.

#### 8.2 **Test Set-up**



**Note:** Measurement setup for testing on Antenna connector

#### 8.3 **Output Power Measurement Applicable Guideance**

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.

TS 151 010-1 is reference to conduct the test measurement of output power.

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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# 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 PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or

an isotropic antenna (EIRP);

= transmitter output power, expressed in dBW, dBm, or PSD;  $P_{\tau}$ 

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

= signal attenuation in the connecting cable between the transmitter

and antenna, in dB.

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#### 8.5 **Measurement Results**

#### 8.5.1 **GSM**

GSM/GPRS/EDGE (GMSK: 8-PSK) Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
0000	824.2	128	33.16	0.74	31.75	33.90	38.50	-4.60
GPRS 850	836.6	190	33.22	0.74	31.81	33.96	38.50	-4.54
050	848.8	251	33.10	0.74	31.69	33.84	38.50	-4.66
0000	1850.2	512	28.94	-0.61	26.18	28.33	33.00	-4.67
GPRS 1900	1880.0	661	28.87	-0.61	26.11	28.26	33.00	-4.74
1300	1909.8	810	28.75	-0.61	25.99	28.14	33.00	-4.86
EDOE	824.2	128	25.62	0.74	24.21	26.36	38.50	-12.14
EDGE 850	836.6	190	25.76	0.74	24.35	26.50	38.50	-12.00
000	848.8	251	25.70	0.74	24.29	26.44	38.50	-12.06
EDOE	1850.2	512	25.48	-0.61	22.72	24.87	33.00	-8.13
EDGE 1900	1880.0	661	25.42	-0.61	22.66	24.81	33.00	-8.19
1300	1909.8	810	25.29	-0.61	22.53	24.68	33.00	-8.32

EUT Mode	Frequency (MHz)	СН	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
0000	824.2	128	33.16	29.51	28.02	27.54
GPRS 850	836.6	190	33.22	29.58	27.89	27.55
000	848.8	251	33.10	29.60	27.76	27.49
ODDO	1850.2	512	28.94	27.21	25.41	24.38
GPRS 1900	1880.0	661	28.87	27.02	25.23	24.21
1300	1909.8	810	28.75	26.76	25.72	24.47
FDOF	824.2	128	25.62	24.19	22.78	21.96
EDGE 850	836.6	190	25.76	24.24	22.91	21.95
000	848.8	251	25.70	24.14	22.76	21.82
FDOF	1850.2	512	25.48	24.70	23.12	22.22
EDGE 1900	1880.0	661	25.42	24.51	22.95	21.93
	1909.8	810	25.29	24.60	23.05	22.13

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### FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

#### 9.1 Standard Applicable

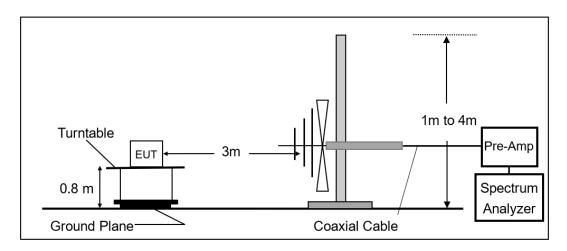
According to FCC §2.1053,

FCC §22.917(a), §24.238(a)

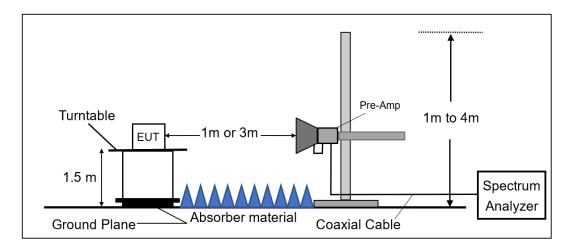
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

#### 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.

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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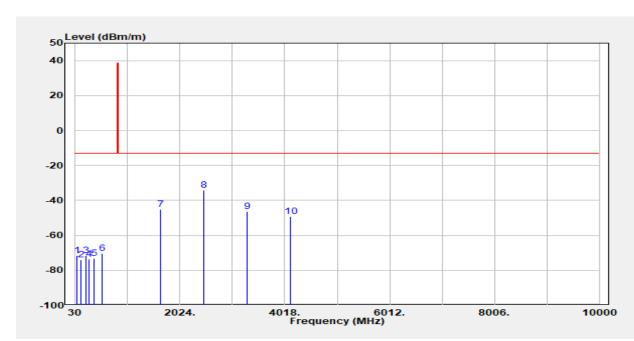
### 9.4 Measurement Result:

Report Number :TERF2412003860ER Test Site :SAC 3

Operation Mode :GPRS 850 Test Date :2024-12-30

Test Mode :Tx Temp./Humi. :20.3℃/53%

EUT Pol :NB Mode Antenna Pol. :Vertical Test Frequency :824.2 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss	@3m	· ·
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.897	-71.44	-62.24	-7.70	-1.50	-13.00	-58.44
145.546	-74.16	-70.26	-1.70	-2.20	-13.00	-61.16
229.049	-71.48	-73.49	4.77	-2.76	-13.00	-58.48
282.453	-73.51	-74.14	3.70	-3.07	-13.00	-60.51
392.172	-72.99	-73.29	3.90	-3.61	-13.00	-59.99
533.934	-70.38	-70.28	4.11	-4.22	-13.00	-57.38
1648.400	-45.23	-47.26	9.48	-7.46	-13.00	-32.23
2472.600	-34.01	-35.36	10.57	-9.22	-13.00	-21.01
3296.800	-46.15	-47.72	12.27	-10.70	-13.00	-33.15
4121.000	-49.11	-49.67	12.56	-12.00	-13.00	-36.11

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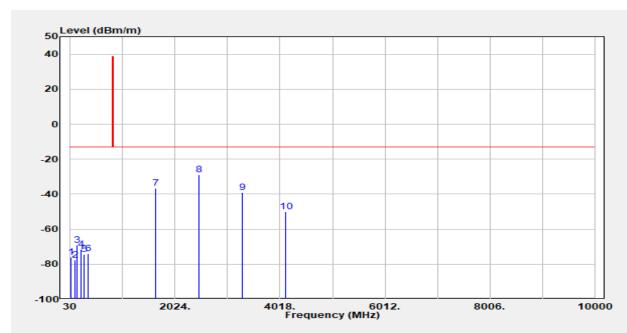
Report Number :TERF2412003860ER Test Site :SAC 3

Operation Mode :GPRS 850 Test Date :2024-12-30

Test Mode :Tx Temp./Humi. :20.3℃/53%

EUT Pol :NB Mode Antenna Pol. :Horizontal

Test Frequency :824.2 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.477	-76.06	-62.51	-12.29	-1.26	-13.00	-63.06
113.504	-77.66	-74.19	-1.52	-1.95	-13.00	-64.66
150.400	-69.03	-65.11	-1.68	-2.24	-13.00	-56.03
226.136	-71.42	-73.62	4.95	-2.75	-13.00	-58.42
291.191	-74.39	-75.02	3.74	-3.12	-13.00	-61.39
367.898	-73.98	-74.66	4.18	-3.50	-13.00	-60.98
1648.400	-36.73	-38.76	9.48	-7.46	-13.00	-23.73
2472.600	-28.96	-30.31	10.57	-9.22	-13.00	-15.96
3296.800	-39.06	-40.63	12.27	-10.70	-13.00	-26.06
4121.000	-50.01	-50.56	12.56	-12.00	-13.00	-37.01

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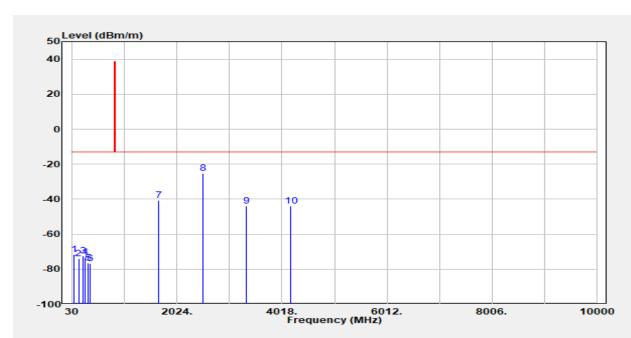
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Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 850 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Vertical **Test Frequency** :836.6 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
68.839	-71.69	-63.13	-7.04	-1.52	-13.00	-58.69
147.488	-73.89	-69.88	-1.79	-2.22	-13.00	-60.89
237.788	-72.24	-73.24	3.82	-2.82	-13.00	-59.24
280.511	-73.22	-73.87	3.72	-3.06	-13.00	-60.22
335.856	-76.47	-77.02	3.90	-3.35	-13.00	-63.47
361.101	-76.68	-77.43	4.21	-3.47	-13.00	-63.68
1673.200	-40.73	-42.94	9.73	-7.52	-13.00	-27.73
2509.800	-25.32	-26.73	10.70	-9.29	-13.00	-12.32
3346.400	-43.86	-45.47	12.39	-10.78	-13.00	-30.86
4183.000	-43.77	-44.17	12.50	-12.10	-13.00	-30.77

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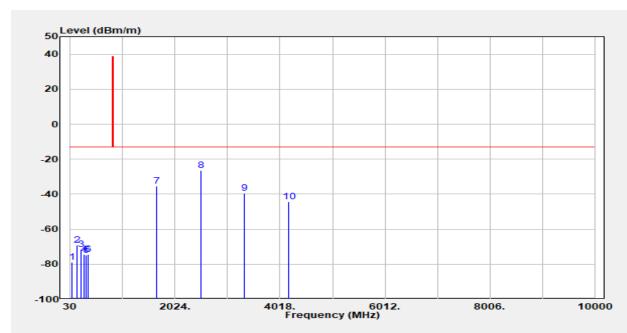
Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 850 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Horizontal

:Nick Lin **Test Frequency** :836.6 MHz Engineer



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.897	-78.90	-69.70	-7.70	-1.50	-13.00	-65.90
151.371	-69.00	-65.13	-1.62	-2.25	-13.00	-56.00
226.136	-71.71	-73.91	4.95	-2.75	-13.00	-58.71
288.278	-74.58	-75.19	3.71	-3.10	-13.00	-61.58
335.856	-74.73	-75.29	3.90	-3.35	-13.00	-61.73
366.927	-74.47	-75.17	4.20	-3.49	-13.00	-61.47
1673.200	-35.42	-37.63	9.73	-7.52	-13.00	-22.42
2509.800	-26.36	-27.77	10.70	-9.29	-13.00	-13.36
3346.400	-39.43	-41.03	12.39	-10.78	-13.00	-26.43
4183.000	-44.28	-44.68	12.50	-12.10	-13.00	-31.28

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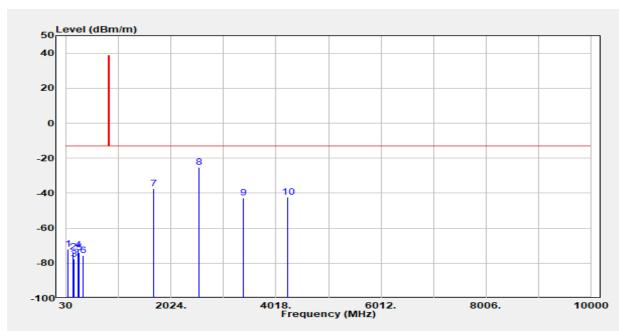
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Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 850 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Vertical :848.8 MHz **Test Frequency** Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	dBm	<sup>'</sup> dBm	dBi/dBd	dB	dBm	dB
66.897	-71.80	-62.60	-7.70	-1.50	-13.00	<b>-</b> 58.80
148.459	-73.65	-69.78	-1.64	-2.23	-13.00	-60.65
173.704	-77.80	-75.80	0.42	-2.41	-13.00	-64.80
246.527	-72.32	-73.11	3.65	-2.87	-13.00	-59.32
278.569	-74.13	-74.78	3.71	-3.05	-13.00	-61.13
342.653	-75.57	-76.21	4.03	-3.38	-13.00	-62.57
1697.600	-37.24	-39.64	9.98	-7.57	-13.00	-24.24
2546.400	-25.35	-26.59	10.60	-9.36	-13.00	-12.35
3395.200	-42.83	-44.55	12.58	-10.86	-13.00	-29.83
4244.000	-42.07	-42.47	12.59	-12.19	-13.00	-29.07

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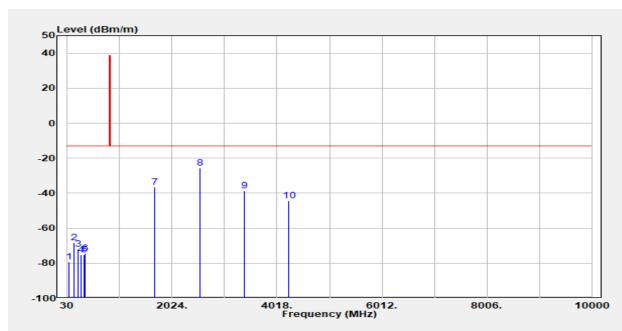
Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 850 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Horizontal

:848.8 MHz :Nick Lin **Test Frequency** Engineer



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	dBm	<sup>'</sup> dBm	dBi/dBd	dB	dBm	dB
67.868	-79.31	-70.22	-7.59	-1.51	-13.00	-66.31
151.371	-68.38	-64.51	-1.62	-2.25	-13.00	-55.38
229.049	-71.83	-73.83	4.77	-2.76	-13.00	-58.83
294.104	-75.03	-75.67	3.77	-3.13	-13.00	-62.03
339.740	-75.05	-75.69	4.00	-3.37	-13.00	-62.05
367.898	-74.23	-74.91	4.18	-3.50	-13.00	-61.23
1697.600	-36.45	-38.85	9.98	-7.57	-13.00	-23.45
2546.400	-25.41	-26.65	10.60	-9.36	-13.00	-12.41
3395.200	-38.45	-40.17	12.58	-10.86	-13.00	-25.45
4244.000	-44.42	-44.82	12.59	-12.19	-13.00	-31.42

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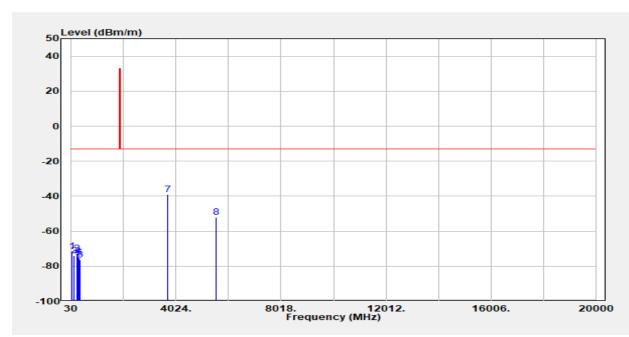
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Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 1900 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Vertical :Nick Lin **Test Frequency** :1850.2 MHz Engineer



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.897	-71.52	-62.32	-7.70	-1.50	-13.00	-58.52
145.546	-73.81	-69.90	-1.70	-2.20	-13.00	-60.81
231.962	-72.67	-74.32	4.43	-2.78	-13.00	-59.67
283.423	-74.23	-74.84	3.69	-3.08	-13.00	-61.23
335.856	-75.15	-75.70	3.90	-3.35	-13.00	-62.15
361.101	-76.26	-77.01	4.21	-3.47	-13.00	-63.26
3700.400	-39.21	-40.36	12.50	-11.35	-13.00	-26.21
5550.600	-52.16	-51.10	13.00	-14.06	-13.00	-39.16

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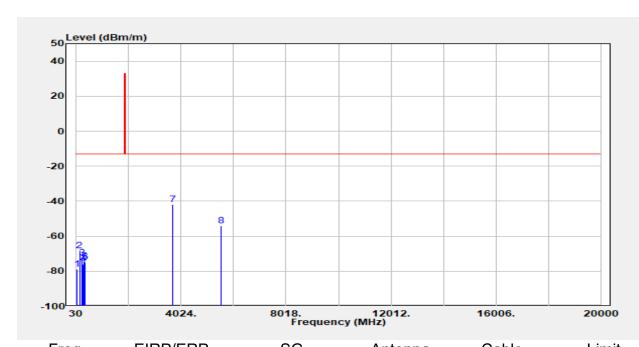
Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode Test Date** :2024-12-30 :GPRS 1900

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Horizontal

**Test Frequency** :1850.2 MHz Engineer :Nick Lin



⊦req.	EIRP/ERP	SG	Antenna	Cable	Limit	Margın
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
64.955	-78.92	-69.08	-8.37	-1.47	-13.00	-65.92
150.400	-68.40	-64.48	-1.68	-2.24	-13.00	-55.40
230.020	-72.49	-74.43	4.71	-2.77	-13.00	-59.49
286.336	-75.90	-76.50	3.69	-3.09	-13.00	-62.90
335.856	-74.41	-74.97	3.90	-3.35	-13.00	-61.41
375.666	-74.98	-75.49	4.05	-3.54	-13.00	-61.98
3700.400	-42.03	-43.18	12.50	-11.35	-13.00	-29.03
5550.600	-54.17	-53.12	13.00	-14.06	-13.00	-41.17

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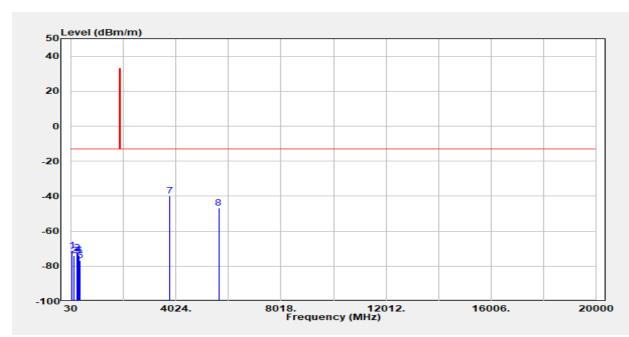
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Report Number :TERF2412003860ER Test Site :SAC 3

Operation Mode :GPRS 1900 Test Date :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

EUT Pol :NB Mode Antenna Pol. :Vertical Test Frequency :1880 MHz Engineer :Nick Lin



Fı	req.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
	•		Output Level	Gain	Loss	@3m	
M	1Hz	dBm	dBm	dBi/dBd	dB	dBm	dB
66	.897	-71.30	-62.10	-7.70	-1.50	-13.00	-58.30
148	3.459	-73.99	-70.12	-1.64	-2.23	-13.00	-60.99
234	4.875	-72.23	-73.45	4.02	-2.80	-13.00	-59.23
280	0.511	-73.38	-74.03	3.72	-3.06	-13.00	-60.38
335	5.856	-73.91	-74.46	3.90	-3.35	-13.00	-60.91
363	3.043	-76.81	-77.56	4.22	-3.48	-13.00	-63.81
376	0.000	-39.67	-40.72	12.50	-11.44	-13.00	-26.67
564	0.000	-46.93	-46.04	13.28	-14.17	-13.00	-33.93

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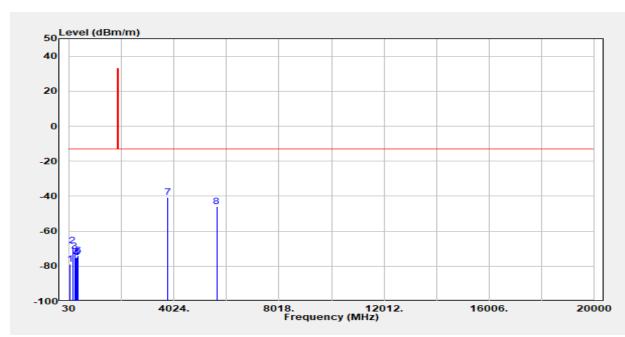
Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 1900 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Horizontal

:Nick Lin **Test Frequency** :1880 MHz Engineer



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss	@3m	_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
67.868	-78.97	-69.88	-7.59	-1.51	-13.00	-65.97
150.400	-68.36	-64.44	-1.68	-2.24	-13.00	-55.36
226.136	-71.74	-73.94	4.95	-2.75	-13.00	-58.74
297.017	-75.04	-75.69	3.80	-3.15	-13.00	-62.04
335.856	-74.94	-75.49	3.90	-3.35	-13.00	-61.94
368.869	-73.88	-74.53	4.16	-3.50	-13.00	-60.88
3760.000	-40.77	-41.82	12.50	-11.44	-13.00	-27.77
5640.000	-45.86	-44.97	13.28	-14.17	-13.00	-32.86

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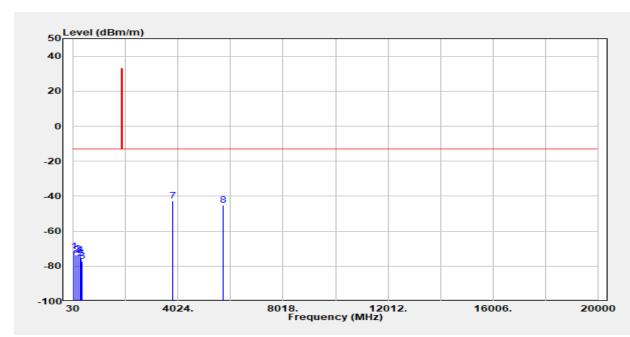
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Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode** :GPRS 1900 **Test Date** :2024-12-30

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Vertical :Nick Lin **Test Frequency** :1909.8 MHz Engineer



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss	@3m	_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.897	-71.62	-62.42	-7.70	-1.50	-13.00	-58.62
146.517	-73.70	-69.74	-1.75	-2.21	-13.00	-60.70
223.223	-73.00	-75.18	4.92	-2.73	-13.00	-60.00
291.191	-73.53	-74.16	3.74	-3.12	-13.00	-60.53
335.856	-75.46	-76.01	3.90	-3.35	-13.00	-62.46
364.985	-77.05	-77.80	4.23	-3.48	-13.00	-64.05
3819.600	-42.57	-43.50	12.46	-11.53	-13.00	-29.57
5729.400	-45.14	-43.95	13.10	-14.29	-13.00	-32.14

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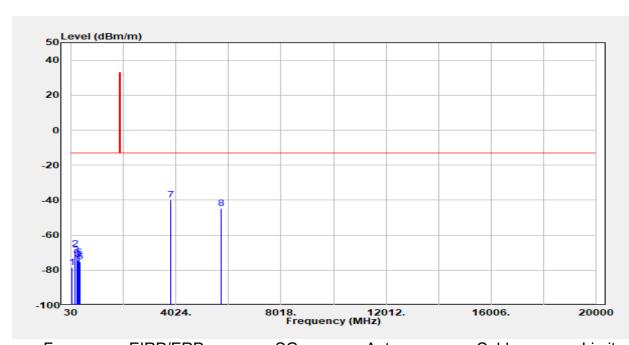
Report Number Test Site :SAC 3 :TERF2412003860ER

**Operation Mode Test Date** :2024-12-30 :GPRS 1900

Test Mode :Tx Temp./Humi. :20.3°C/53%

**EUT Pol** :NB Mode Antenna Pol. :Horizontal

**Test Frequency** :1909.8 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.926	-78.36	-69.10	<b>-</b> 7.78	-1.49	-13.00	-65.36
151.371	-68.00	-64.14	-1.62	-2.25	-13.00	-55.00
226.136	-71.59	-73.79	4.95	-2.75	-13.00	-58.59
291.191	-74.38	-75.00	3.74	-3.12	-13.00	-61.38
335.856	-72.91	-73.46	3.90	-3.35	-13.00	-59.91
366.927	-75.29	-76.00	4.20	-3.49	-13.00	-62.29
3819.600	-39.81	-40.74	12.46	-11.53	-13.00	-26.81
5729.400	-44.53	-43.34	13.10	-14.29	-13.00	-31.53

#### ~ End of Report ~

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