

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 PC
Brand Name: HP
Model No.: R2022
Model Difference: N/A
Report Number: TERF2206000815E2
FCC ID B94R2022GPKV
Issue Date: Sep. 05, 2022
Date of Test: Jun. 22, 2022~Sep. 02, 2022
Date of EUT Received: Jun. 07, 2022

Vito Pei

Approved By

Vito Pei

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
TERF2206000815E2	00	Original.	Aug. 10, 2022	Yami Kuo	
TERF2206000815E2	01	Add RF EIRP Power	Sep. 05, 2022	Yami Kuo	*

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 PC
Brand Name:	HP
Model No.:	R2022
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	5CD21235KV
Power Supply:	7.68 Vdc from Rechargeable Li-Polymer Battery or 5 / 9 / 12 / 15 Vdc from AC/DC Adapter
Test Software (Name/Version)	Default (link UXM)

1.2 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant5
	Ant8
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)	
		Ant5	Ant8
LTE-Band 48	3550 ~ 3700	-2.47	
5G NR Band 2	1850 ~ 1910	0.21	0.07
5G NR Band 5	824 ~ 849	-0.64	
5G NR Band 13	777 ~ 787	-0.46	
5G NR Band 66	1710 ~ 1780	-0.63	0.73

Note: Antenna information is provided by the applicant.

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1.3 Operation Frequencies

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 2		
BW (MHz)	Operation Frequency (MHz)	
5	1852.5	- 1907.5
10	1855.0	- 1905.0
15	1857.5	- 1902.5
20	1860.0	- 1900.0
25	1862.5	- 1897.5
30	1865.0	- 1895.0
35	1867.5	- 1892.5
40	1870.0	- 1890.0

NR Band 5		
BW (MHz)	Operation Frequency (MHz)	
5	826.5	- 846.5
10	829.0	- 844.0
15	831.5	- 841.5
20	834.0	- 839.0
25	836.5	- 836.5

NR Band 13		
BW (MHz)	Operation Frequency (MHz)	
5	779.5	- 784.5
10	782.0	- 782.0

NR Band 66		
BW (MHz)	Operation Frequency (MHz)	
5	1712.5	- 1777.5
10	1715.0	- 1775.0
15	1717.5	- 1772.5
20	1720.0	- 1770.0
25	1722.5	- 1767.5
30	1725.0	- 1765.0
35	1727.5	- 1762.5
40	1730.0	- 1760.0
45	1732.5	- 1757.5

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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	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 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 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 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 hand-held 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:

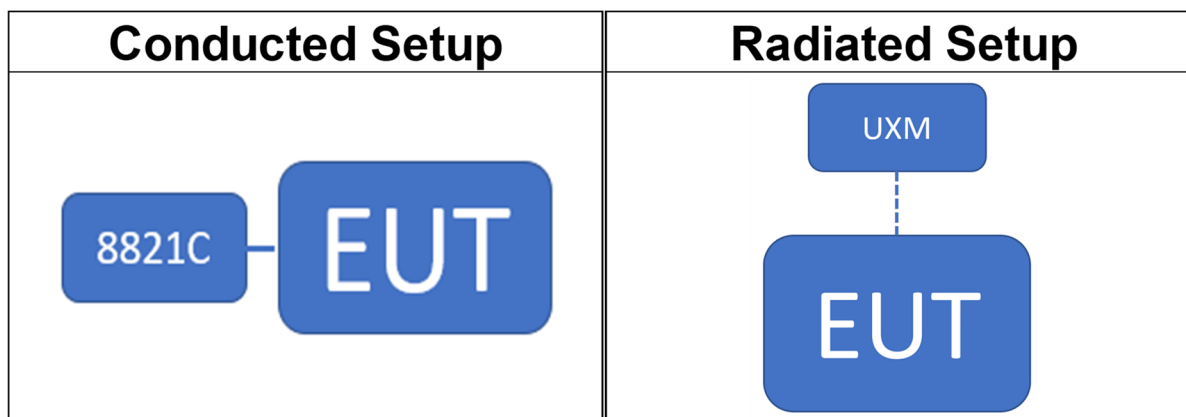
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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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

Test Items				Max. Output Power												
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
48	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #					
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Max. Output	48C	V	V	V				V	V	V	V	V	V	V					V	V

LTE Band 48

Parameter	Test Condition
Test Channel	Low
Channel Bandwidth	20 MHz
Modulation	QPSK
Resource Block Allocation	UL: 1 RBs allocated, RB start = 0

2A-48A

Parameter	Test Condition	Parameter	Test Condition
Test Channel	Mid	Test Channel	Mid
Channel Bandwidth	20 MHz	Channel Bandwidth	20 MHz
Modulation	QPSK	Modulation	QPSK
Resource Block Allocation	UL: 1 RBs allocated, RB start = 0	Resource Block Allocation	UL: 100 RBs allocated, RB start = 0

5A-48A

Parameter	Test Condition	Parameter	Test Condition
Test Channel	Mid	Test Channel	Mid
Channel Bandwidth	10 MHz	Channel Bandwidth	20 MHz
Modulation	QPSK	Modulation	QPSK
Resource Block Allocation	UL: 50 RBs allocated, RB start = 0	Resource Block Allocation	UL: 50 RBs allocated, RB start = 0

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13A-48A

Parameter	Test Condition	Parameter	Test Condition
Test Channel	Mid	Test Channel	Mid
Channel Bandwidth	10 MHz	Channel Bandwidth	20 MHz
Modulation	QPSK	Modulation	QPSK
Resource Block Allocation	UL: 50 RBs allocated, RB start = 0	Resource Block Allocation	UL: 1 RBs allocated, RB start = 0

48A-66A

Parameter	Test Condition	Parameter	Test Condition
Test Channel	Mid	Test Channel	Mid
Channel Bandwidth	20 MHz	Channel Bandwidth	20 MHz
Modulation	QPSK	Modulation	QPSK
Resource Block Allocation	UL: 100 RBs allocated, RB start = 0	Resource Block Allocation	UL: 1 RBs allocated, RB start = 0

48C

Parameter	Test Condition	Parameter	Test Condition
Test Channel	Mid	Test Channel	Mid
Channel Bandwidth	20 MHz	Channel Bandwidth	20 MHz
Modulation	QPSK	Modulation	QPSK
Resource Block Allocation	UL: 1 RBs allocated, RB start = 99	Resource Block Allocation	UL: 1 RBs allocated, RB start = 0

5G ENDC

E-UTRA Band	SCS	Test Channel	Channel Bandwidth	Modulation	Resource Block Allocation	
					RBs allocated	RB Start
B48A-n5A	15K	55830+167300	20+20	DFT-S-OFDM Pi/2 BPSK	Full	
B48A-n66A	15K	55830+349000	20+20	DFT-S-OFDM Pi/2 BPSK	Full	

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz

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

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8821C	6262044732	12/29/2021	12/28/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	10/19/2021	10/18/2022
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/06/2022	01/05/2023
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2022	07/11/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192462	12/21/2021	12/20/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EM26400	971576	10/02/2021	10/01/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022

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7 MAXIMUM OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

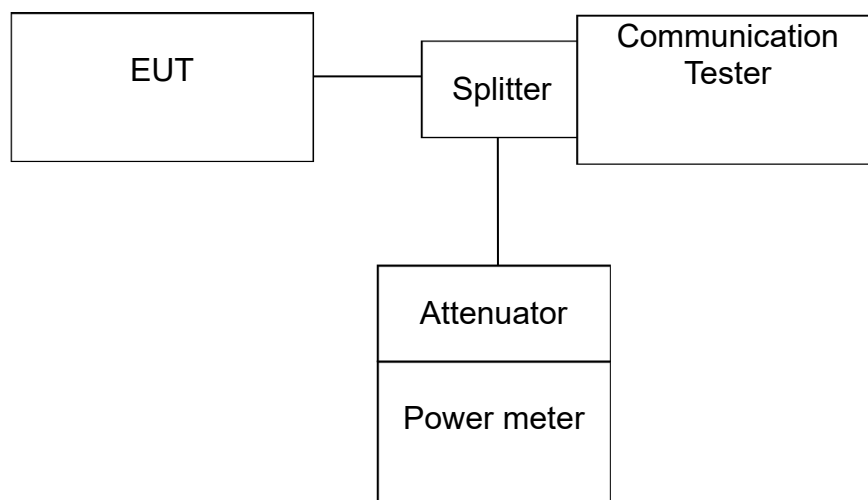
FCC §2.1046 & 96.41

- (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:

Antenna gain (dBi)		-2.47							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
5	55265	3552.5	QPSK	1	0	18.26	15.79	23	-7.21
				1	24	18.12	15.65	23	-7.35
				12	6	17.97	15.50	23	-7.5
				25	0	18.20	15.73	23	-7.27
	55990	3625	QPSK	1	0	18.13	15.66	23	-7.34
				1	24	18.01	15.54	23	-7.46
				12	6	17.98	15.51	23	-7.49
				25	0	18.07	15.60	23	-7.4
	56715	3697.5	QPSK	1	0	18.23	15.76	23	-7.24
				1	24	18.06	15.59	23	-7.41
				12	6	18.00	15.53	23	-7.47
				25	0	18.08	15.61	23	-7.39
5	55265	3552.5	16QAM	1	0	18.10	15.63	23	-7.37
				1	24	18.02	15.55	23	-7.45
				12	6	18.19	15.72	23	-7.28
				25	0	18.03	15.56	23	-7.44
	55990	3625	16QAM	1	0	18.18	15.71	23	-7.29
				1	24	18.05	15.58	23	-7.42
				12	6	18.05	15.58	23	-7.42
				25	0	17.97	15.50	23	-7.5
	56715	3697.5	16QAM	1	0	18.02	15.55	23	-7.45
				1	24	18.06	15.59	23	-7.41
				12	6	18.04	15.57	23	-7.43
				25	0	18.15	15.68	23	-7.32
5	55265	3552.5	64QAM	1	0	18.05	15.58	23	-7.42
				1	24	18.13	15.66	23	-7.34
				12	6	18.09	15.62	23	-7.38
				25	0	18.04	15.57	23	-7.43
	55990	3625	64QAM	1	0	18.01	15.54	23	-7.46
				1	24	17.96	15.49	23	-7.51
				12	6	18.19	15.72	23	-7.28
				25	0	18.11	15.64	23	-7.36
	56715	3697.5	64QAM	1	0	18.19	15.72	23	-7.28
				1	24	18.15	15.68	23	-7.32
				12	6	18.14	15.67	23	-7.33
				25	0	18.11	15.64	23	-7.36
5	55265	3552.5	256QAM	1	0	18.06	15.59	23	-7.41
				1	24	18.07	15.60	23	-7.4
				12	6	18.09	15.62	23	-7.38
				25	0	18.15	15.68	23	-7.32
	55990	3625	256QAM	1	0	18.19	15.72	23	-7.28
				1	24	17.98	15.51	23	-7.49
				12	6	18.09	15.62	23	-7.38
				25	0	18.08	15.61	23	-7.39
	56715	3697.5	256QAM	1	0	18.15	15.68	23	-7.32
				1	24	18.10	15.63	23	-7.37
				12	6	18.09	15.62	23	-7.38
				25	0	18.11	15.64	23	-7.36

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Antenna gain (dBi)		-2.47							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
10	55290	3555	QPSK	1	0	18.28	15.81	23	-7.19
				1	49	18.16	15.69	23	-7.31
				25	12	18.03	15.56	23	-7.44
				50	0	18.22	15.75	23	-7.25
	56170	3643	QPSK	1	0	18.13	15.66	23	-7.34
				1	49	18.03	15.56	23	-7.44
				25	12	18.01	15.54	23	-7.46
				50	0	18.08	15.61	23	-7.39
	56690	3695	QPSK	1	0	18.21	15.74	23	-7.26
				1	49	18.08	15.61	23	-7.39
				25	12	18.01	15.54	23	-7.46
				50	0	18.14	15.67	23	-7.33
10	55290	3555	16QAM	1	0	18.15	15.68	23	-7.32
				1	49	18.04	15.57	23	-7.43
				25	12	18.17	15.70	23	-7.3
				50	0	18.05	15.58	23	-7.42
	56170	3643	16QAM	1	0	18.19	15.72	23	-7.28
				1	49	18.07	15.60	23	-7.4
				25	12	18.04	15.57	23	-7.43
				50	0	18.00	15.53	23	-7.47
	56690	3695	16QAM	1	0	18.04	15.57	23	-7.43
				1	49	18.10	15.63	23	-7.37
				25	12	18.09	15.62	23	-7.38
				50	0	18.16	15.69	23	-7.31
10	55290	3555	64QAM	1	0	18.05	15.58	23	-7.42
				1	49	18.16	15.69	23	-7.31
				25	12	18.10	15.63	23	-7.37
				50	0	18.06	15.59	23	-7.41
	56170	3643	64QAM	1	0	18.08	15.61	23	-7.39
				1	49	17.99	15.52	23	-7.48
				25	12	18.21	15.74	23	-7.26
				50	0	18.10	15.63	23	-7.37
	56690	3695	64QAM	1	0	18.17	15.70	23	-7.3
				1	49	18.18	15.71	23	-7.29
				25	12	18.11	15.64	23	-7.36
				50	0	18.12	15.65	23	-7.35
10	55290	3555	256QAM	1	0	18.06	15.59	23	-7.41
				1	49	18.08	15.61	23	-7.39
				25	12	18.12	15.65	23	-7.35
				50	0	18.12	15.65	23	-7.35
	56170	3643	256QAM	1	0	18.22	15.75	23	-7.25
				1	49	18.02	15.55	23	-7.45
				25	12	18.16	15.69	23	-7.31
				50	0	18.07	15.60	23	-7.4
	56690	3695	256QAM	1	0	18.15	15.68	23	-7.32
				1	49	18.14	15.67	23	-7.33
				25	12	18.10	15.63	23	-7.37
				50	0	18.09	15.62	23	-7.38

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Antenna gain (dBi)		-2.47							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
15	55315	3557.5	QPSK	1	0	18.36	15.89	23	-7.11
				1	74	18.21	15.74	23	-7.26
				36	18	18.09	15.62	23	-7.38
				75	0	18.26	15.79	23	-7.21
	56160	3642	QPSK	1	0	18.19	15.72	23	-7.28
				1	74	18.10	15.63	23	-7.37
				36	18	18.04	15.57	23	-7.43
				75	0	18.13	15.66	23	-7.34
	56665	3692.5	QPSK	1	0	18.31	15.84	23	-7.16
				1	74	18.14	15.67	23	-7.33
				36	18	18.05	15.58	23	-7.42
				75	0	18.15	15.68	23	-7.32
15	55315	3557.5	16QAM	1	0	18.17	15.70	23	-7.3
				1	74	18.09	15.62	23	-7.38
				36	18	18.22	15.75	23	-7.25
				75	0	18.11	15.64	23	-7.36
	56160	3642	16QAM	1	0	18.26	15.79	23	-7.21
				1	74	18.10	15.63	23	-7.37
				36	18	18.06	15.59	23	-7.41
				75	0	18.05	15.58	23	-7.42
	56665	3692.5	16QAM	1	0	18.10	15.63	23	-7.37
				1	74	18.15	15.68	23	-7.32
				36	18	18.15	15.68	23	-7.32
				75	0	18.24	15.77	23	-7.23
15	55315	3557.5	64QAM	1	0	18.11	15.64	23	-7.36
				1	74	18.23	15.76	23	-7.24
				36	18	18.16	15.69	23	-7.31
				75	0	18.15	15.68	23	-7.32
	56160	3642	64QAM	1	0	18.10	15.63	23	-7.37
				1	74	18.06	15.59	23	-7.41
				36	18	18.26	15.79	23	-7.21
				75	0	18.14	15.67	23	-7.33
	56665	3692.5	64QAM	1	0	18.23	15.76	23	-7.24
				1	74	18.25	15.78	23	-7.22
				36	18	18.21	15.74	23	-7.26
				75	0	18.14	15.67	23	-7.33
15	55315	3557.5	256QAM	1	0	18.14	15.67	23	-7.33
				1	74	18.16	15.69	23	-7.31
				36	18	18.20	15.73	23	-7.27
				75	0	18.18	15.71	23	-7.29
	56160	3642	256QAM	1	0	18.24	15.77	23	-7.23
				1	74	18.08	15.61	23	-7.39
				36	18	18.20	15.73	23	-7.27
				75	0	18.14	15.67	23	-7.33
	56665	3692.5	256QAM	1	0	18.19	15.72	23	-7.28
				1	74	18.15	15.68	23	-7.32
				36	18	18.17	15.70	23	-7.3
				75	0	18.13	15.66	23	-7.34

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LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
20	55340	3560	QPSK	1	0	18.38	15.91	23	-7.09
				1	99	18.20	15.73	23	-7.27
				50	25	18.08	15.61	23	-7.39
				100	0	18.25	15.78	23	-7.22
	56150	3641	QPSK	1	0	18.43	15.96	23	-7.04
				1	99	18.12	15.65	23	-7.35
				50	25	18.04	15.57	23	-7.43
				100	0	18.16	15.69	23	-7.31
	56640	3690	QPSK	1	0	18.39	15.92	23	-7.08
				1	99	18.11	15.64	23	-7.36
				50	25	18.05	15.58	23	-7.42
				100	0	18.19	15.72	23	-7.28
20	55340	3560	16QAM	1	0	18.20	15.73	23	-7.27
				1	99	18.06	15.59	23	-7.41
				50	25	18.22	15.75	23	-7.25
				100	0	18.08	15.61	23	-7.39
	56150	3641	16QAM	1	0	18.26	15.79	23	-7.21
				1	99	18.14	15.67	23	-7.33
				50	25	18.11	15.64	23	-7.36
				100	0	18.04	15.57	23	-7.43
	56640	3690	16QAM	1	0	18.13	15.66	23	-7.34
				1	99	18.13	15.66	23	-7.34
				50	25	18.12	15.65	23	-7.35
				100	0	18.26	15.79	23	-7.21
20	55340	3560	64QAM	1	0	18.12	15.65	23	-7.35
				1	99	18.20	15.73	23	-7.27
				50	25	18.14	15.67	23	-7.33
				100	0	18.15	15.68	23	-7.32
	56150	3641	64QAM	1	0	18.07	15.60	23	-7.4
				1	99	18.05	15.58	23	-7.42
				50	25	18.24	15.77	23	-7.23
				100	0	18.19	15.72	23	-7.28
	56640	3690	64QAM	1	0	18.23	15.76	23	-7.24
				1	99	18.25	15.78	23	-7.22
				50	25	18.22	15.75	23	-7.25
				100	0	18.14	15.67	23	-7.33
20	55340	3560	256QAM	1	0	18.14	15.67	23	-7.33
				1	99	18.15	15.68	23	-7.32
				50	25	18.18	15.71	23	-7.29
				100	0	18.23	15.76	23	-7.24
	56150	3641	256QAM	1	0	18.28	15.81	23	-7.19
				1	99	18.10	15.63	23	-7.37
				50	25	18.21	15.74	23	-7.26
				100	0	18.15	15.68	23	-7.32
	56640	3690	256QAM	1	0	18.21	15.74	23	-7.26
				1	99	18.20	15.73	23	-7.27
				50	25	18.17	15.70	23	-7.3
				100	0	18.14	15.67	23	-7.33

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Part 27_EIRP Limit (dBm/10MHz)	23
Antenna Gain	-2.47

OUTPUT POWER FOR LTE BAND 48C (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducte d Total	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset			
10MHz+ 20MHz	55295	3555.5	55439	3569.9	QPSK	1	49	1	0	17.74	15.27	0.034
						50	0	100	0	17.61	15.14	0.033
	55896	3615.6	56040	3630.0	QPSK	1	49	1	0	17.84	15.37	0.034
						50	0	100	0	17.73	15.26	0.034
	56496	3675.6	56640	3690.0	QPSK	1	49	1	0	17.83	15.36	0.034
						50	0	100	0	17.71	15.24	0.033
10MHz+ 20MHz	55295	3555.5	55439	3569.9	16QAM	1	49	1	0	17.63	15.16	0.033
						50	0	100	0	17.54	15.07	0.032
	55896	3615.6	56040	3630.0	16QAM	1	49	1	0	17.68	15.21	0.033
						50	0	100	0	17.64	15.17	0.033
	56496	3675.6	56640	3690.0	16QAM	1	49	1	0	17.72	15.25	0.033
						50	0	100	0	17.64	15.17	0.033
10MHz+ 20MHz	55295	3555.5	55439	3569.9	64QAM	1	49	1	0	17.59	15.12	0.033
						50	0	100	0	17.58	15.11	0.032
	55896	3615.6	56040	3630.0	64QAM	1	49	1	0	17.63	15.16	0.033
						50	0	100	0	17.65	15.18	0.033
	56496	3675.6	56640	3690.0	64QAM	1	49	1	0	17.62	15.15	0.033
						50	0	100	0	17.62	15.15	0.033
10MHz+ 20MHz	55295	3555.5	55439	3569.9	256QAM	1	49	1	0	17.51	15.04	0.032
						50	0	100	0	17.53	15.06	0.032
	55896	3615.6	56040	3630.0	256QAM	1	49	1	0	17.59	15.12	0.033
						50	0	100	0	17.63	15.16	0.033
	56496	3675.6	56640	3690.0	256QAM	1	49	1	0	17.65	15.18	0.033
						50	0	100	0	17.59	15.12	0.033

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Part 27_ EIRP Limit (dBm/10MHz)	23
Antenna Gain	-2.47

OUTPUT POWER FOR LTE BAND 48C (15MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted	EIRP	EIRP
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	Average Total	Average (dBm/10MHz)	Average (W/10MHz)
15MHz+ 20MHz	55318	3557.8	55489	3574.9	QPSK	1	74	1	0	17.68	15.21	0.033
						75	0	100	0	17.59	15.12	0.033
	55893	3615.3	56064	3632.4	QPSK	1	74	1	0	17.82	15.35	0.034
						75	0	100	0	17.71	15.24	0.033
	56469	3672.9	56640	3690.0	QPSK	1	74	1	0	17.88	15.41	0.035
						75	0	100	0	17.82	15.35	0.034
15MHz+ 20MHz	55318	3557.8	55489	3574.9	16QAM	1	74	1	0	17.55	15.08	0.032
						75	0	100	0	17.54	15.07	0.032
	55893	3615.3	56064	3632.4	16QAM	1	74	1	0	17.65	15.18	0.033
						75	0	100	0	17.62	15.15	0.033
	56469	3672.9	56640	3690.0	16QAM	1	74	1	0	17.76	15.29	0.034
						75	0	100	0	17.69	15.22	0.033
15MHz+ 20MHz	55318	3557.8	55489	3574.9	64QAM	1	74	1	0	17.49	15.02	0.032
						75	0	100	0	17.54	15.07	0.032
	55893	3615.3	56064	3632.4	64QAM	1	74	1	0	17.67	15.20	0.033
						75	0	100	0	17.64	15.17	0.033
	56469	3672.9	56640	3690.0	64QAM	1	74	1	0	17.70	15.23	0.033
						75	0	100	0	17.71	15.24	0.033
15MHz+ 20MHz	55318	3557.8	55489	3574.9	256QAM	1	74	1	0	17.48	15.01	0.032
						75	0	100	0	17.44	14.97	0.031
	55893	3615.3	56064	3632.4	256QAM	1	74	1	0	17.62	15.15	0.033
						75	0	100	0	17.54	15.07	0.032
	56469	3672.9	56640	3690.0	256QAM	1	74	1	0	17.67	15.20	0.033
						75	0	100	0	17.61	15.14	0.033

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Part 27_EIRP Limit (dBm/10MHz)	23
Antenna Gain	-2.47

OUTPUT POWER FOR LTE BAND 48C (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average	EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	Total	(dBm/10MHz)	(W/10MHz)
20MHz+20MHz	55340	3560.0	55538	3579.8	QPSK	1	99	1	0	17.84	15.37	0.034
						100	0	100	0	17.76	15.29	0.034
	55891	3615.1	56089	3634.9	QPSK	1	99	1	0	17.89	15.42	0.035
						100	0	100	0	17.80	15.33	0.034
	56442	3670.2	56640	3690.0	QPSK	1	99	1	0	17.79	15.32	0.034
						100	0	100	0	17.66	15.19	0.033
20MHz+20MHz	55340	3560.0	55538	3579.8	16QAM	1	99	1	0	17.73	15.26	0.034
						100	0	100	0	17.70	15.23	0.033
	55891	3615.1	56089	3634.9	16QAM	1	99	1	0	17.73	15.26	0.034
						100	0	100	0	17.69	15.22	0.033
	56442	3670.2	56640	3690.0	16QAM	1	99	1	0	17.65	15.18	0.033
						100	0	100	0	17.60	15.13	0.033
20MHz+20MHz	55340	3560.0	55538	3579.8	64QAM	1	99	1	0	17.66	15.19	0.033
						100	0	100	0	17.67	15.20	0.033
	55891	3615.1	56089	3634.9	64QAM	1	99	1	0	17.71	15.24	0.033
						100	0	100	0	17.69	15.22	0.033
	56442	3670.2	56640	3690.0	64QAM	1	99	1	0	17.62	15.15	0.033
						100	0	100	0	17.59	15.12	0.033
20MHz+20MHz	55340	3560.0	55538	3579.8	256QAM	1	99	1	0	17.60	15.13	0.033
						100	0	100	0	17.56	15.09	0.032
	55891	3615.1	56089	3634.9	256QAM	1	99	1	0	17.65	15.18	0.033
						100	0	100	0	17.63	15.16	0.033
	56442	3670.2	56640	3690.0	256QAM	1	99	1	0	17.56	15.09	0.032
						100	0	100	0	17.52	15.05	0.032

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8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

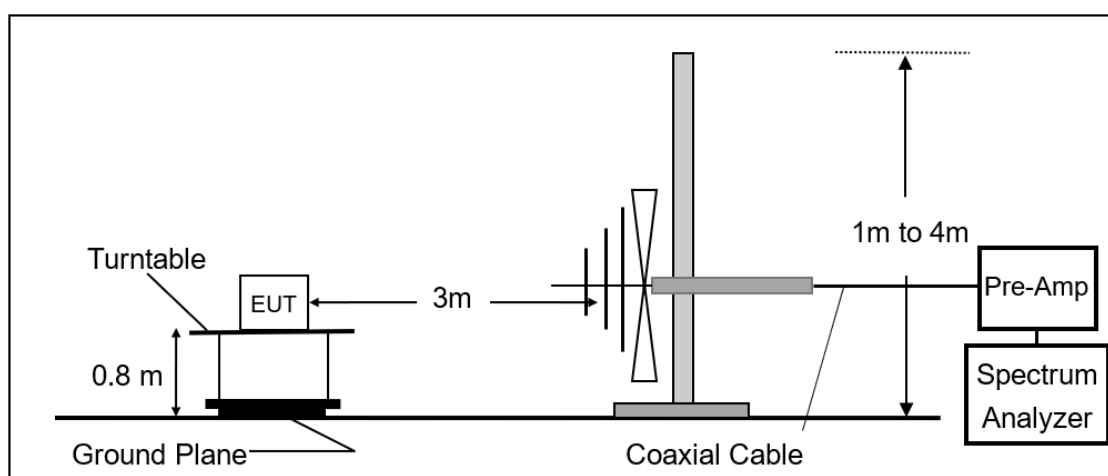
8.1 Standard Applicable

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

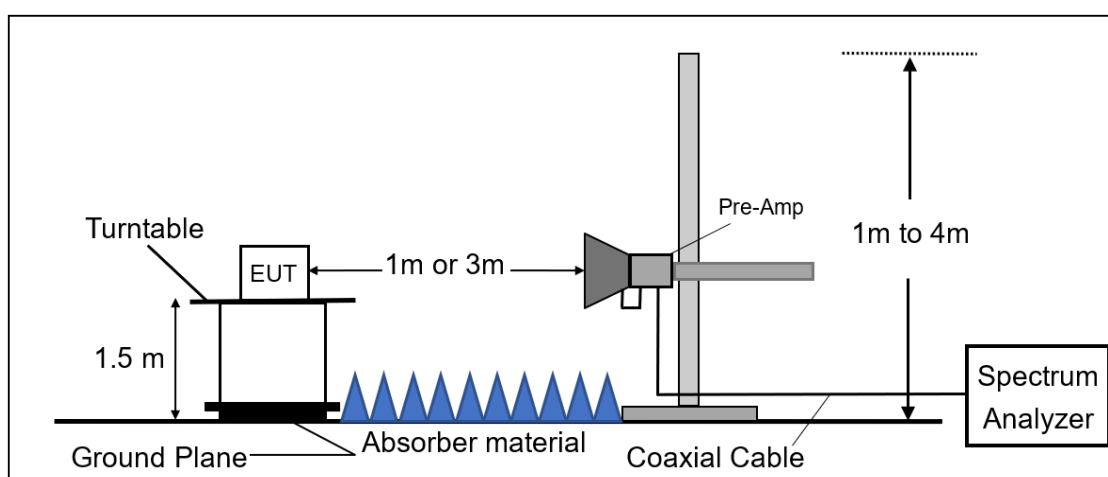
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

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.

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

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

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8.4 Measurement Result:

Report Number :TERF2206000815E2

Test Site :SAC D

Operation Mode :LTE B48

Test Date :2022-06-22

Test Mode :TX

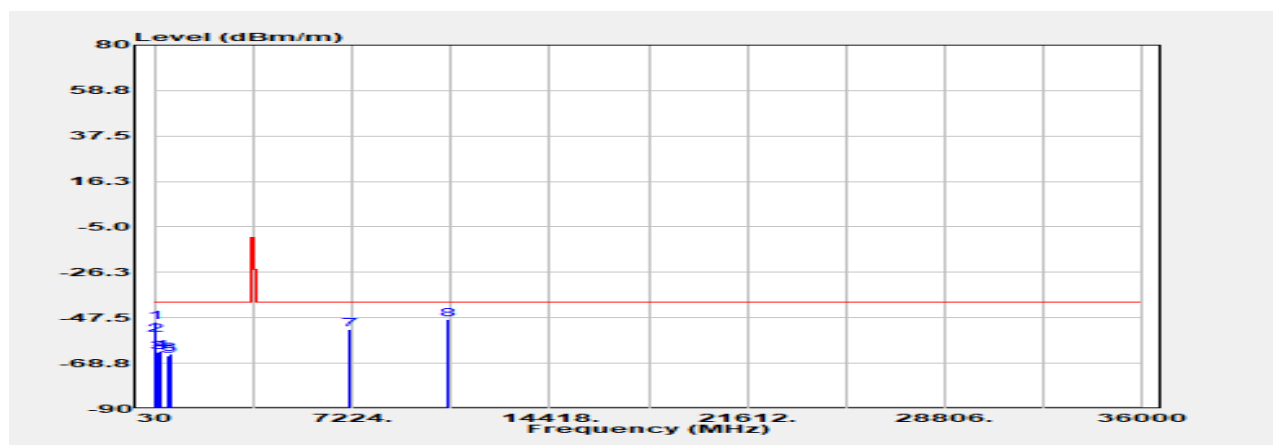
Temp./Humi. :23.8/68

EUT Pol :NB Plane

Antenna Pol. :Vertical

Test Frequency :3560 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.700	-49.46	-30.36	-18.74	-0.36	-40.00	-9.46
96.930	-55.30	-49.15	-5.58	-0.57	-40.00	-15.30
157.070	-63.74	-56.51	-6.52	-0.71	-40.00	-23.74
299.660	-62.97	-60.90	-1.00	-1.07	-40.00	-22.97
503.360	-65.27	-63.10	-0.73	-1.44	-40.00	-25.27
583.870	-64.62	-61.95	-0.99	-1.68	-40.00	-24.62
7120.000	-53.08	-58.84	10.96	-5.20	-40.00	-13.08
10680.000	-48.37	-52.87	11.22	-6.72	-40.00	-8.37

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Report Number :TERF2206000815E2

Test Site :SAC D

Operation Mode :LTE B48

Test Date :2022-06-22

Test Mode :TX

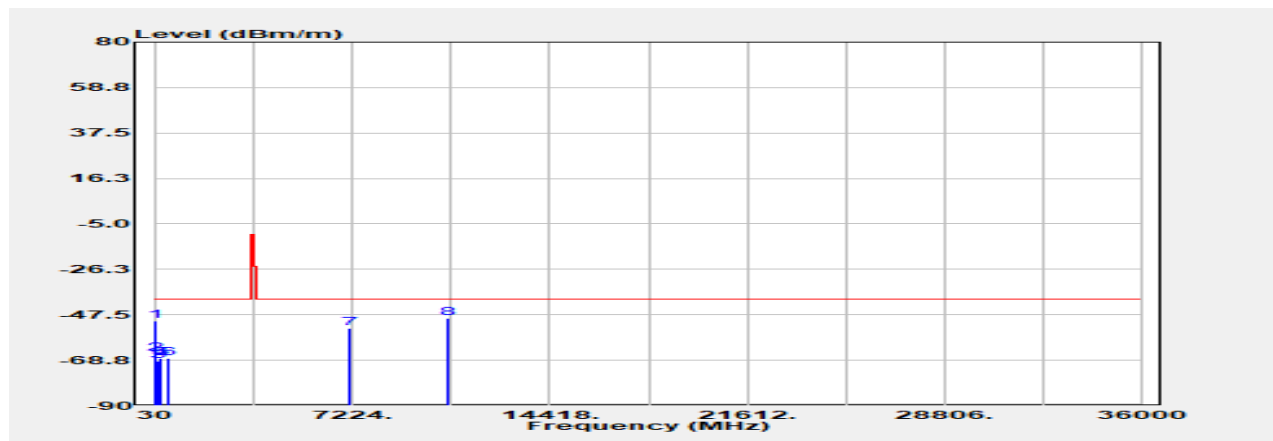
Temp./Humi. :23.8/68

EUT Pol :NB Plane

Antenna Pol. :Horizontal

Test Frequency :3560 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.790	-50.41	-31.09	-18.97	-0.35	-40.00	-10.41
101.780	-65.71	-59.20	-5.92	-0.59	-40.00	-25.71
175.500	-69.20	-63.77	-4.65	-0.78	-40.00	-29.20
224.970	-67.82	-67.23	0.30	-0.89	-40.00	-27.82
284.140	-67.68	-65.62	-1.05	-1.01	-40.00	-27.68
504.330	-68.00	-65.83	-0.76	-1.41	-40.00	-28.00
7120.000	-53.98	-59.74	10.96	-5.20	-40.00	-13.98
10680.000	-49.10	-53.60	11.22	-6.72	-40.00	-9.10

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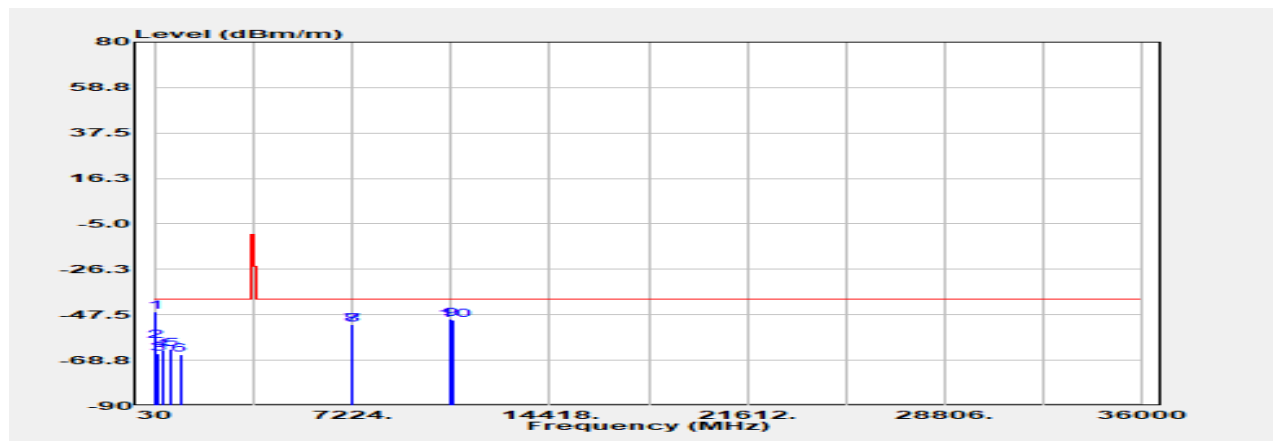
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Report Number :TERF2206000815E2
Operation Mode :48C
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :3615.1 MHz+3634.9 MHz

Test Site :SAC D
Test Date :2022-07-14
Temp./Humi. :24.3/66
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-46.07	-25.83	-19.92	-0.32	-40.00	-6.07
96.445	-59.55	-53.55	-5.43	-0.57	-40.00	-19.55
203.630	-65.57	-63.87	-0.86	-0.84	-40.00	-25.57
300.145	-64.04	-61.97	-1.00	-1.07	-40.00	-24.04
595.995	-63.70	-61.19	-1.18	-1.33	-40.00	-23.70
959.745	-66.16	-62.83	-1.48	-1.85	-40.00	-26.16
7230.200	-52.18	-57.72	10.80	-5.26	-40.00	-12.18
7269.800	-52.02	-57.51	10.80	-5.31	-40.00	-12.02
10845.300	-49.53	-53.87	11.01	-6.67	-40.00	-9.53
10904.700	-49.96	-54.30	10.90	-6.56	-40.00	-9.96

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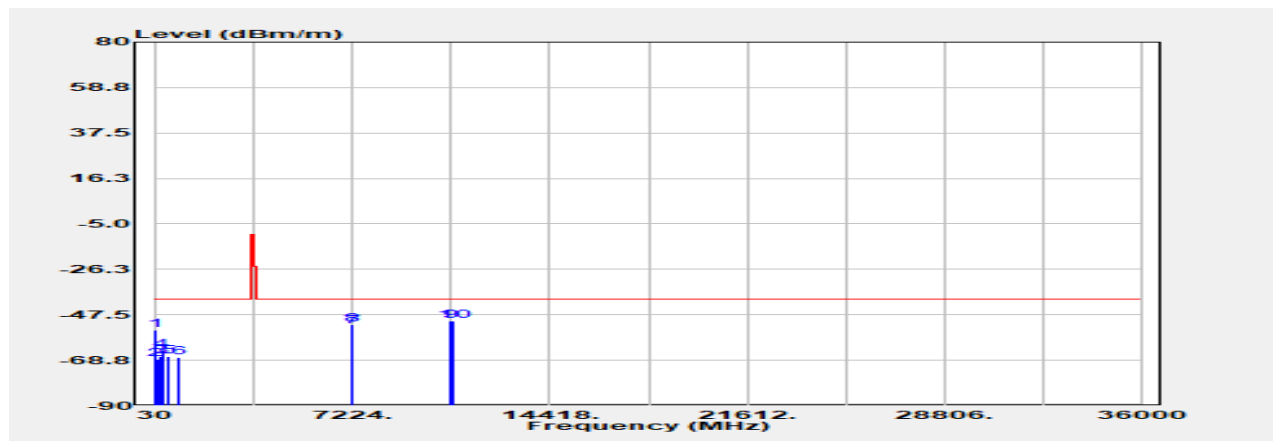
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Report Number :TERF2206000815E2
 Operation Mode :48C
 Test Mode :TX
 EUT Pol :NB Plane
 Test Frequency :3615.1 MHz+3634.9 MHz

Test Site :SAC D
 Test Date :2022-07-14
 Temp./Humi. :24.3/66
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-54.56	-34.94	-19.29	-0.33	-40.00	-14.56
112.450	-68.29	-61.10	-6.57	-0.62	-40.00	-28.29
219.635	-66.87	-65.98	-0.01	-0.88	-40.00	-26.87
300.145	-64.18	-62.11	-1.00	-1.07	-40.00	-24.18
503.845	-66.95	-64.78	-0.74	-1.43	-40.00	-26.95
919.975	-67.52	-64.31	-1.36	-1.85	-40.00	-27.52
7230.200	-52.87	-58.41	10.80	-5.26	-40.00	-12.87
7269.800	-51.97	-57.46	10.80	-5.31	-40.00	-11.97
10845.300	-50.51	-54.85	11.01	-6.67	-40.00	-10.51
10904.700	-50.33	-54.67	10.90	-6.56	-40.00	-10.33

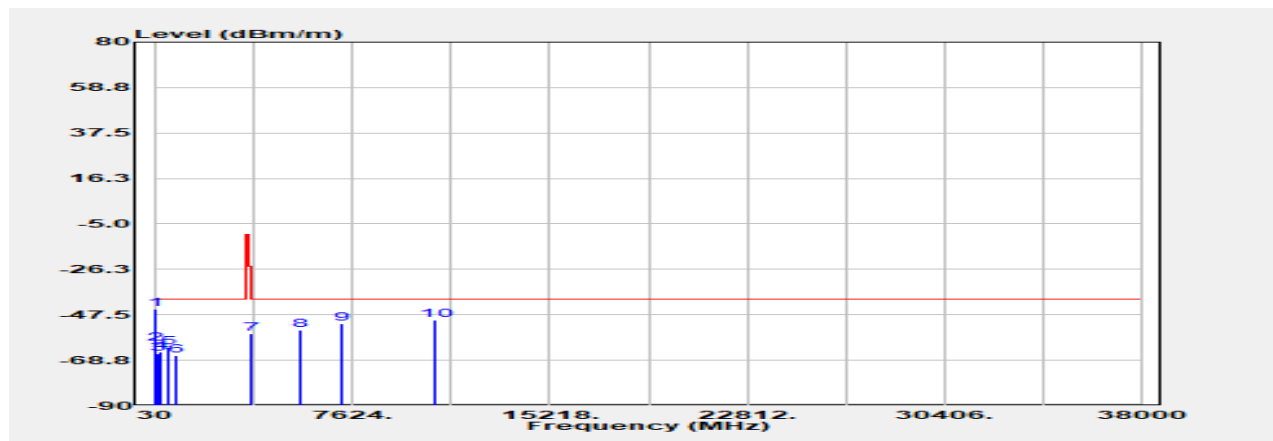
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Report Number :TERF2206000815E2
 Operation Mode :2A-48A
 Test Mode :TX
 EUT Pol :NB Plane
 Test Frequency :1880 MHz+3609 MHz

Test Site :SAC D
 Test Date :2022-07-22
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-44.69	-24.45	-19.92	-0.32	-40.00	-4.69
96.445	-60.83	-54.83	-5.43	-0.57	-40.00	-20.83
204.115	-65.65	-63.97	-0.84	-0.84	-40.00	-25.65
299.660	-65.04	-62.97	-1.00	-1.07	-40.00	-25.04
595.025	-62.88	-60.37	-1.15	-1.36	-40.00	-22.88
908.335	-66.74	-63.58	-1.24	-1.92	-40.00	-26.74
3760.000	-56.26	-64.92	12.40	-3.74	-40.00	-16.26
5640.000	-54.45	-62.70	13.00	-4.75	-40.00	-14.45
7218.000	-51.50	-57.03	10.80	-5.27	-40.00	-11.50
10827.000	-50.06	-54.41	11.05	-6.70	-40.00	-10.06

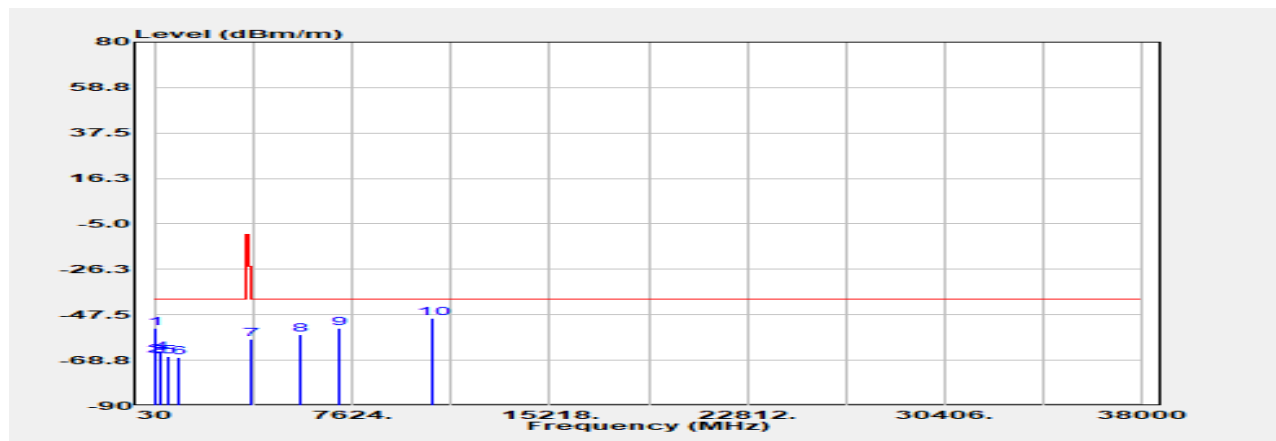
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Report Number :TERF2206000815E2
Operation Mode :2A-48A
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :1880 MHz+3609 MHz

Test Site :SAC D
Test Date :2022-07-22
Temp./Humi. :24.5/65
Antenna Pol. :Horizontal
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.425	-53.89	-34.15	-19.42	-0.32	-40.00	-13.89
113.905	-66.44	-59.22	-6.60	-0.62	-40.00	-26.44
218.180	-67.09	-66.11	-0.10	-0.88	-40.00	-27.09
303.540	-65.43	-63.37	-0.96	-1.10	-40.00	-25.43
588.235	-67.19	-64.54	-1.08	-1.57	-40.00	-27.19
959.745	-67.35	-64.02	-1.48	-1.85	-40.00	-27.35
3760.000	-58.87	-67.53	12.40	-3.74	-40.00	-18.87
5640.000	-56.61	-64.86	13.00	-4.75	-40.00	-16.61
7120.000	-53.98	-59.74	10.96	-5.20	-40.00	-13.98
10680.000	-49.10	-53.60	11.22	-6.72	-40.00	-9.10

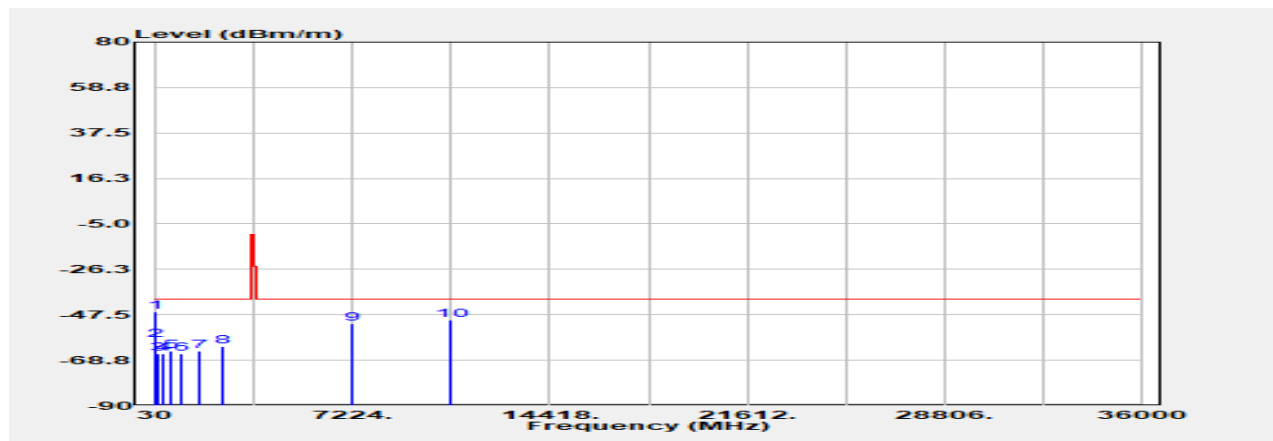
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Report Number :TERF2206000815E2
Operation Mode :5A-48A
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :836.5 MHz+3609 MHz

Test Site :SAC D
Test Date :2022-07-22
Temp./Humi. :24.5/65
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-45.93	-25.69	-19.92	-0.32	-40.00	-5.93
110.025	-59.41	-52.20	-6.60	-0.61	-40.00	-19.41
203.145	-65.86	-64.14	-0.88	-0.84	-40.00	-25.86
310.815	-65.52	-63.38	-1.00	-1.14	-40.00	-25.52
588.720	-64.38	-61.74	-1.09	-1.55	-40.00	-24.38
994.665	-65.88	-62.76	-1.18	-1.94	-40.00	-25.88
1673.000	-64.56	-71.61	9.55	-2.50	-40.00	-24.56
2509.500	-62.10	-69.66	10.62	-3.06	-40.00	-22.10
7218.000	-51.69	-57.22	10.80	-5.27	-40.00	-11.69
10827.000	-49.75	-54.10	11.05	-6.70	-40.00	-9.75

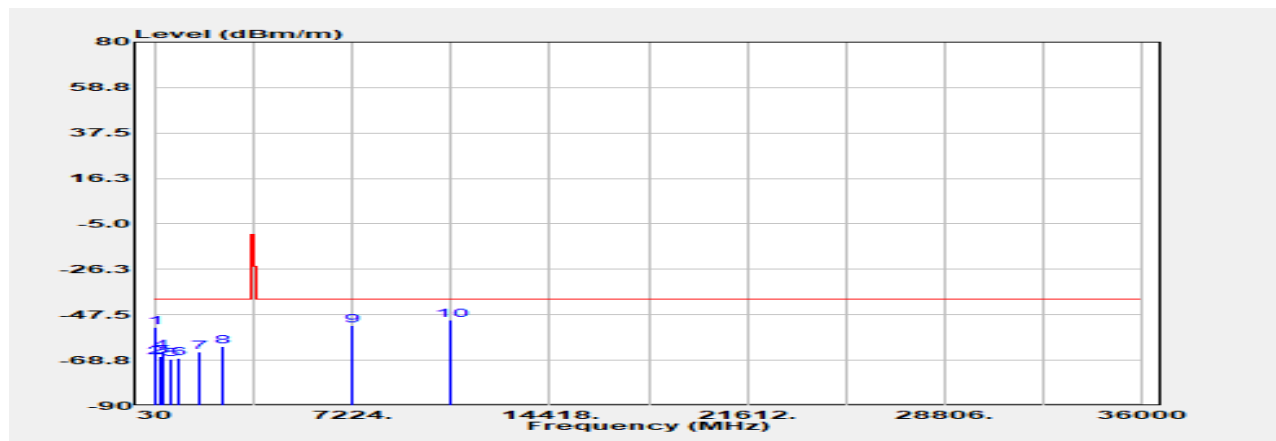
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Report Number :TERF2206000815E2
Operation Mode :5A-48A
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :836.5 MHz+3609 MHz

Test Site :SAC D
Test Date :2022-07-22
Temp./Humi. :24.5/65
Antenna Pol. :Horizontal
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-53.16	-33.54	-19.29	-0.33	-40.00	-13.16
110.995	-67.30	-60.36	-6.33	-0.61	-40.00	-27.30
220.605	-67.02	-66.19	0.05	-0.88	-40.00	-27.02
300.145	-64.46	-62.39	-1.00	-1.07	-40.00	-24.46
587.265	-68.32	-65.68	-1.05	-1.59	-40.00	-28.32
956.350	-67.66	-64.45	-1.38	-1.83	-40.00	-27.66
1673.000	-64.87	-71.92	9.55	-2.50	-40.00	-24.87
2509.500	-62.41	-69.97	10.62	-3.06	-40.00	-22.41
7218.000	-52.36	-57.89	10.80	-5.27	-40.00	-12.36
10827.000	-50.10	-54.45	11.05	-6.70	-40.00	-10.10

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Report Number :TERF2206000815E2

Operation Mode :13A-48A

Test Mode :TX

EUT Pol :NB Plane

Test Frequency :782 MHz+3609 MHz

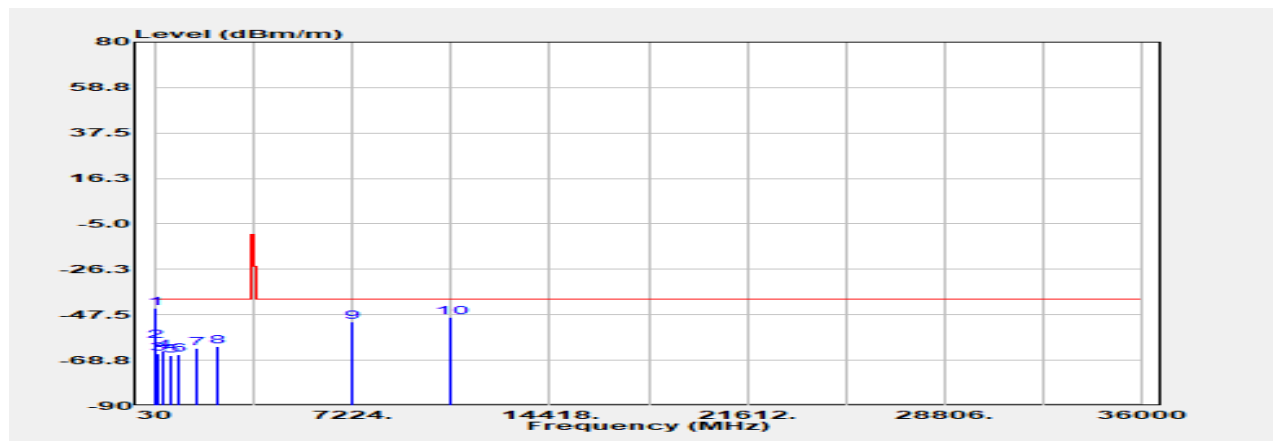
Test Site :SAC D

Test Date :2022-07-22

Temp./Humi. :24.5/65

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.455	-44.29	-24.23	-19.74	-0.32	-40.00	-4.29
95.475	-59.75	-53.84	-5.34	-0.57	-40.00	-19.75
202.660	-65.88	-64.14	-0.90	-0.84	-40.00	-25.88
330.700	-64.46	-62.48	-0.77	-1.21	-40.00	-24.46
601.815	-66.59	-64.07	-1.32	-1.20	-40.00	-26.59
912.700	-66.33	-63.14	-1.29	-1.90	-40.00	-26.33
1564.000	-63.33	-70.10	9.18	-2.41	-40.00	-23.33
2346.000	-62.13	-68.77	9.58	-2.94	-40.00	-22.13
7218.000	-50.80	-56.33	10.80	-5.27	-40.00	-10.80
10827.000	-48.51	-52.86	11.05	-6.70	-40.00	-8.51

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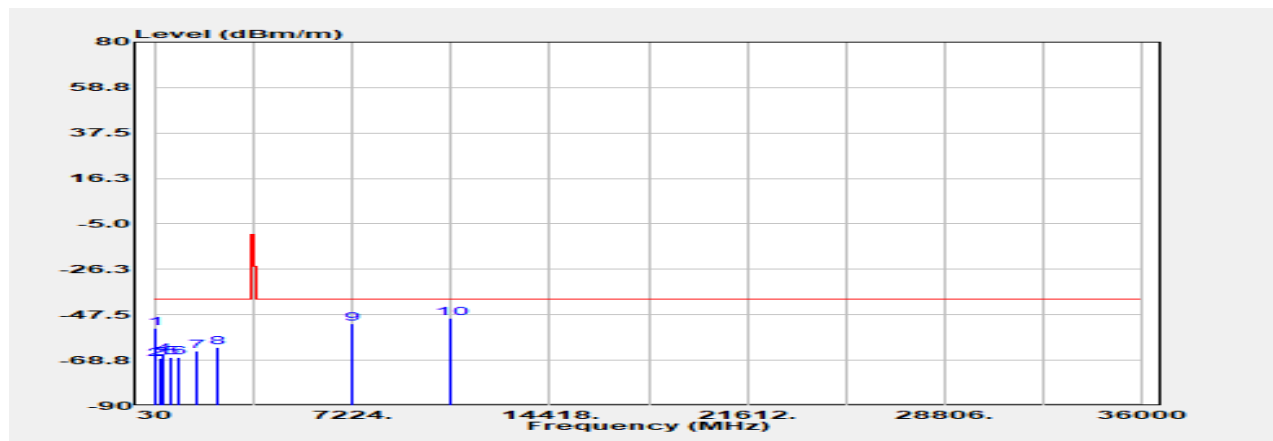
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Report Number :TERF2206000815E2
Operation Mode :13A-48A
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :782 MHz+3609 MHz

Test Site :SAC D
Test Date :2022-07-22
Temp./Humi. :24.5/65
Antenna Pol. :Horizontal
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-53.92	-34.30	-19.29	-0.33	-40.00	-13.92
107.600	-68.35	-61.45	-6.30	-0.60	-40.00	-28.35
222.060	-67.90	-67.15	0.13	-0.88	-40.00	-27.90
314.695	-66.14	-64.01	-0.97	-1.16	-40.00	-26.14
587.265	-67.28	-64.64	-1.05	-1.59	-40.00	-27.28
955.380	-67.40	-64.23	-1.35	-1.82	-40.00	-27.40
1564.000	-64.47	-71.24	9.18	-2.41	-40.00	-24.47
2346.000	-62.54	-69.18	9.58	-2.94	-40.00	-22.54
7218.000	-51.44	-56.97	10.80	-5.27	-40.00	-11.44
10827.000	-49.16	-53.51	11.05	-6.70	-40.00	-9.16

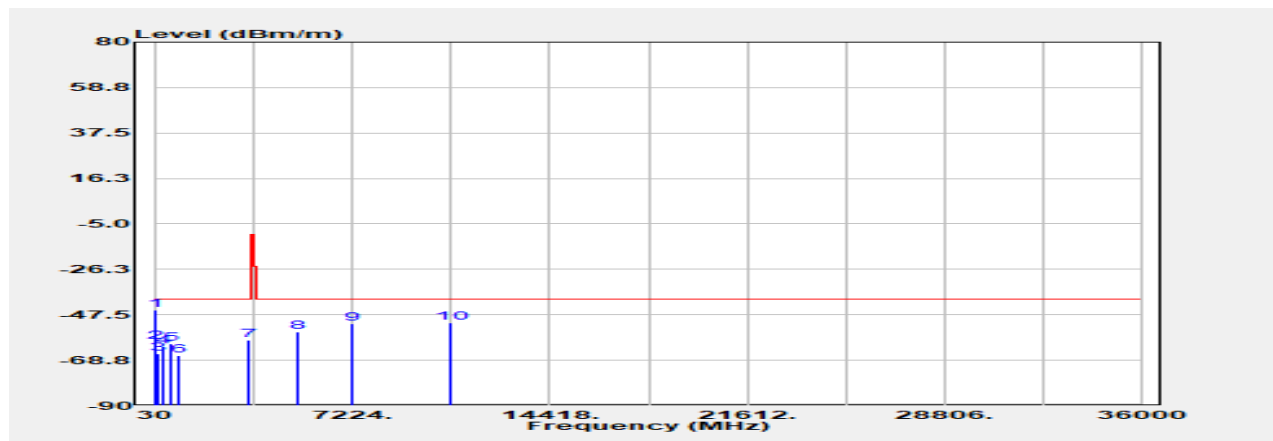
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Report Number :TERF2206000815E2
Operation Mode :48A-66A
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :3609 MHz+1745 MHz

Test Site :SAC D
Test Date :2022-07-22
Temp./Humi. :24.5/65
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.455	-45.44	-25.38	-19.74	-0.32	-40.00	-5.44
95.475	-60.26	-54.35	-5.34	-0.57	-40.00	-20.26
204.600	-65.68	-64.02	-0.82	-0.84	-40.00	-25.68
305.965	-62.37	-60.30	-0.96	-1.11	-40.00	-22.37
590.660	-61.14	-58.52	-1.12	-1.50	-40.00	-21.14
908.820	-66.45	-63.28	-1.25	-1.92	-40.00	-26.45
3490.000	-59.50	-68.31	12.42	-3.61	-40.00	-19.50
5235.000	-55.62	-63.82	12.68	-4.48	-40.00	-15.62
7218.000	-51.68	-57.21	10.80	-5.27	-40.00	-11.68
10827.000	-51.02	-55.37	11.05	-6.70	-40.00	-11.02

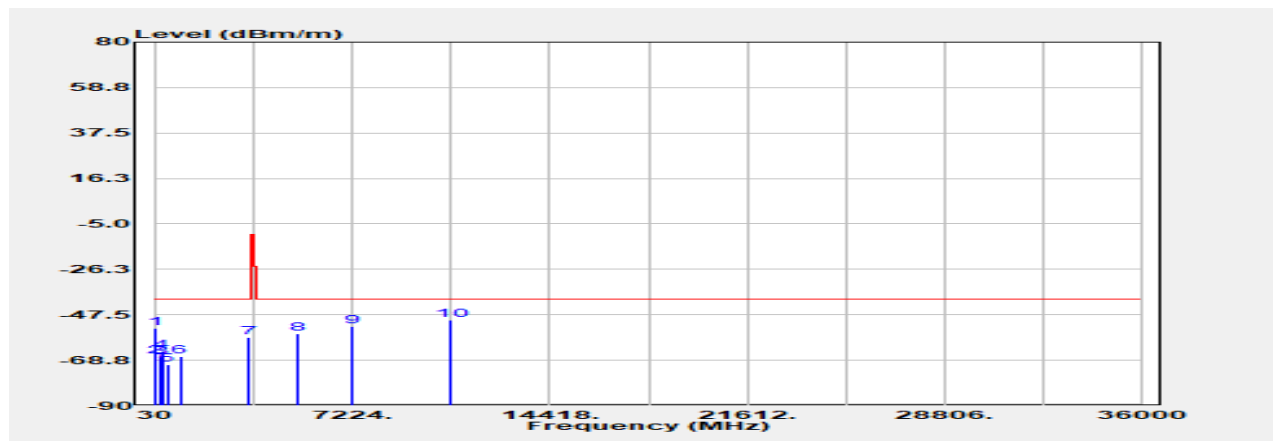
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Report Number :TERF2206000815E2
 Operation Mode :48A-66A
 Test Mode :TX
 EUT Pol :NB Plane
 Test Frequency :3609 MHz+1745 MHz

Test Site :SAC D
 Test Date :2022-07-22
 Temp./Humi. :24.5/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.455	-53.89	-33.83	-19.74	-0.32	-40.00	-13.89
109.540	-66.83	-59.76	-6.46	-0.61	-40.00	-26.83
220.120	-67.28	-66.42	0.02	-0.88	-40.00	-27.28
300.145	-64.23	-62.16	-1.00	-1.07	-40.00	-24.23
490.750	-71.03	-68.73	-0.66	-1.64	-40.00	-31.03
962.655	-67.19	-63.85	-1.47	-1.87	-40.00	-27.19
3490.000	-57.99	-66.80	12.42	-3.61	-40.00	-17.99
5235.000	-56.16	-64.36	12.68	-4.48	-40.00	-16.16
7218.000	-53.07	-58.60	10.80	-5.27	-40.00	-13.07
10827.000	-50.07	-54.42	11.05	-6.70	-40.00	-10.07

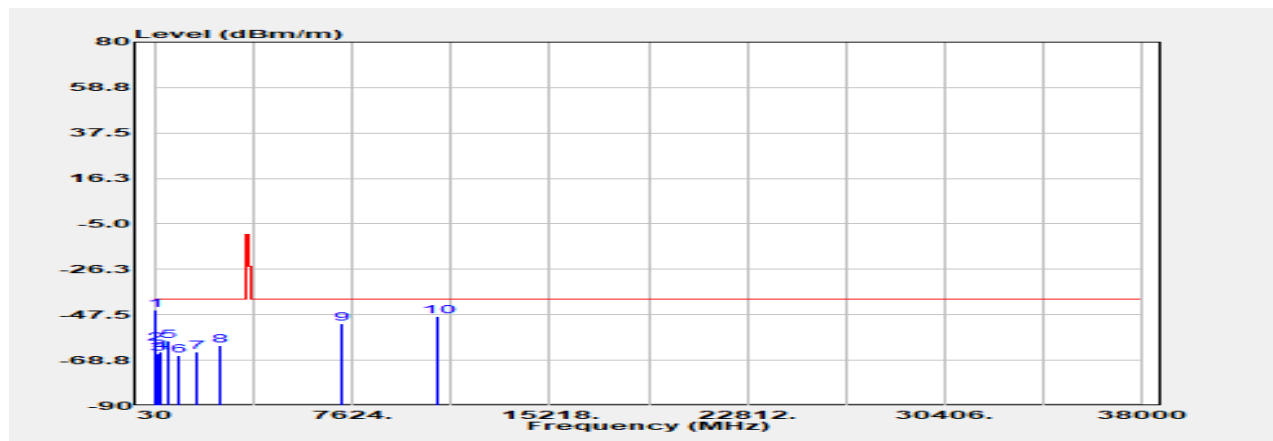
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Report Number :TERF2206000815E2
Operation Mode :B48A-n5
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :3625 MHz+836.5 MHz

Test Site :SAC D
Test Date :2022-07-08
Temp./Humi. :24.5/66
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-45.31	-25.07	-19.92	-0.32	-40.00	-5.31
109.540	-60.94	-53.87	-6.46	-0.61	-40.00	-20.94
194.900	-65.90	-63.64	-1.44	-0.82	-40.00	-25.90
306.450	-64.93	-62.84	-0.97	-1.12	-40.00	-24.93
589.690	-59.94	-57.30	-1.11	-1.53	-40.00	-19.94
917.550	-66.51	-63.30	-1.34	-1.87	-40.00	-26.51
1673.000	-64.88	-71.93	9.55	-2.50	-40.00	-24.88
2509.500	-61.78	-69.34	10.62	-3.06	-40.00	-21.78
7250.000	-51.73	-57.30	10.80	-5.23	-40.00	-11.73
10875.000	-48.23	-52.57	10.95	-6.61	-40.00	-8.23

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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

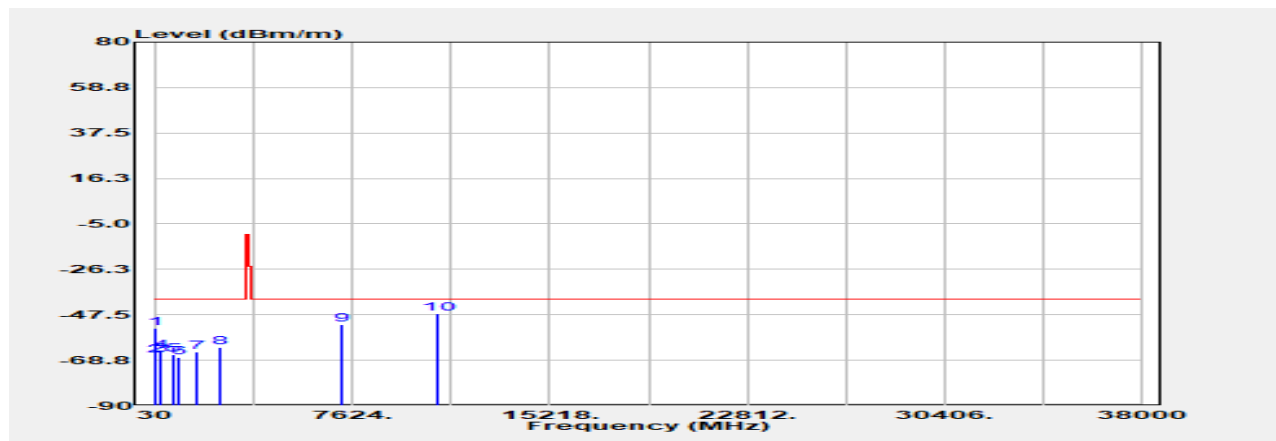
台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2206000815E2
Operation Mode :B48A-n5
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :3625 MHz+836.5 MHz

Test Site :SAC D
Test Date :2022-07-08
Temp./Humi. :24.5/66
Antenna Pol. :Horizontal
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-53.69	-33.81	-19.56	-0.32	-40.00	-13.69
105.660	-66.40	-59.54	-6.26	-0.60	-40.00	-26.40
220.120	-66.12	-65.26	0.02	-0.88	-40.00	-26.12
299.660	-64.57	-62.50	-1.00	-1.07	-40.00	-24.57
730.340	-65.93	-62.76	-1.17	-2.00	-40.00	-25.93
955.380	-67.36	-64.19	-1.35	-1.82	-40.00	-27.36
1673.000	-64.83	-71.88	9.55	-2.50	-40.00	-24.83
2509.500	-62.68	-70.24	10.62	-3.06	-40.00	-22.68
7250.000	-52.26	-57.83	10.80	-5.23	-40.00	-12.26
10875.000	-46.98	-51.32	10.95	-6.61	-40.00	-6.98

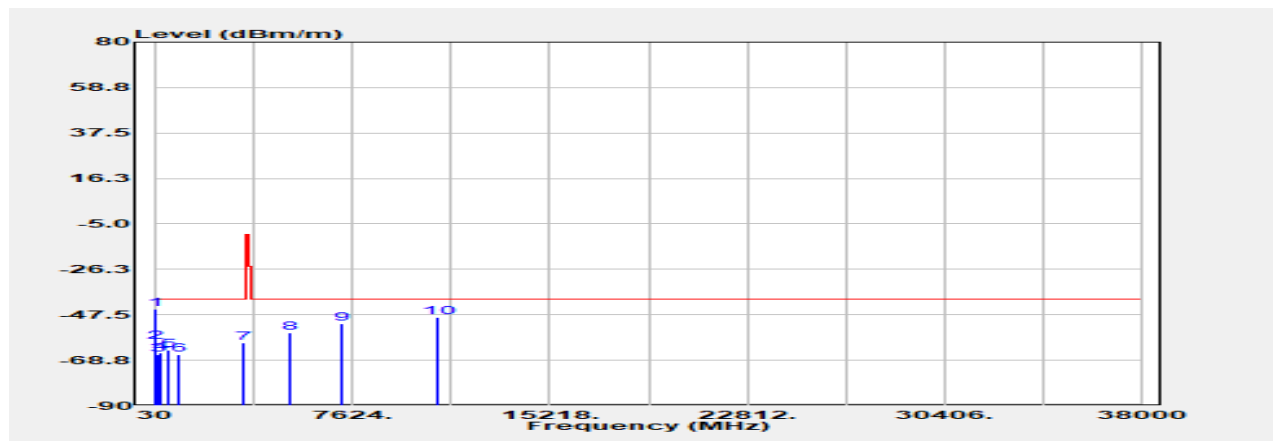
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Report Number :TERF2206000815E2
Operation Mode :B48A-n66
Test Mode :TX
EUT Pol :NB Plane
Test Frequency :3625 MHz+1745 MHz

Test Site :SAC D
Test Date :2022-07-08
Temp./Humi. :24.5/66
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.455	-44.66	-24.60	-19.74	-0.32	-40.00	-4.66
109.540	-60.08	-53.01	-6.46	-0.61	-40.00	-20.08
204.600	-65.93	-64.27	-0.82	-0.84	-40.00	-25.93
304.995	-65.31	-63.25	-0.95	-1.11	-40.00	-25.31
586.295	-64.21	-61.56	-1.03	-1.62	-40.00	-24.21
992.725	-66.17	-63.03	-1.20	-1.94	-40.00	-26.17
3490.000	-60.43	-69.24	12.42	-3.61	-40.00	-20.43
5235.000	-55.88	-64.08	12.68	-4.48	-40.00	-15.88
7250.000	-51.52	-57.09	10.80	-5.23	-40.00	-11.52
10875.000	-48.52	-52.86	10.95	-6.61	-40.00	-8.52

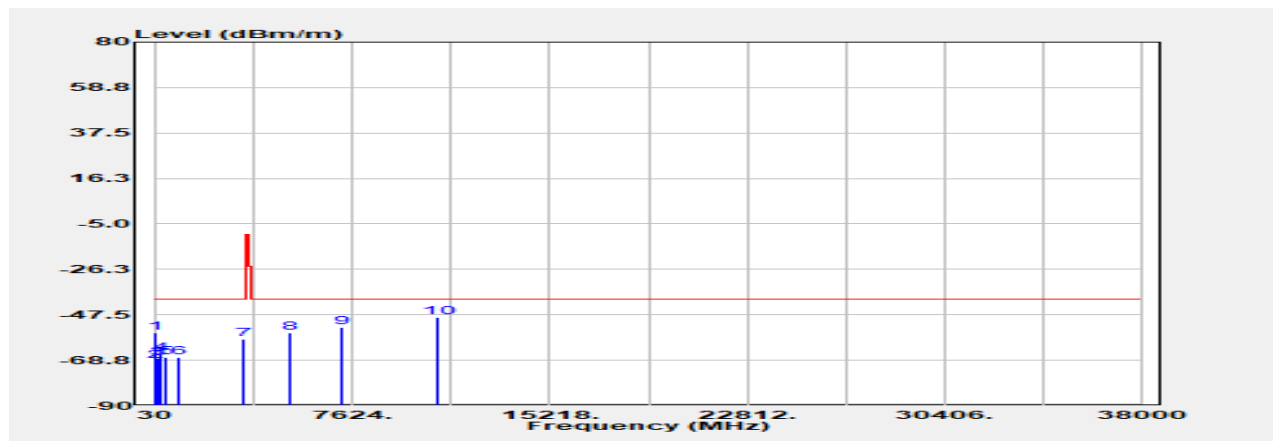
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Report Number :TERF2206000815E2
 Operation Mode :B48A-n66
 Test Mode :TX
 EUT Pol :NB Plane
 Test Frequency :3625 MHz+1745 MHz

Test Site :SAC D
 Test Date :2022-07-08
 Temp./Humi. :24.5/66
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.425	-56.08	-36.34	-19.42	-0.32	-40.00	-16.08
105.660	-68.99	-62.13	-6.26	-0.60	-40.00	-28.99
212.360	-67.80	-66.54	-0.40	-0.86	-40.00	-27.80
306.450	-65.53	-63.44	-0.97	-1.12	-40.00	-25.53
491.720	-67.21	-64.90	-0.68	-1.63	-40.00	-27.21
967.990	-67.25	-63.93	-1.42	-1.90	-40.00	-27.25
3490.000	-58.81	-67.62	12.42	-3.61	-40.00	-18.81
5235.000	-55.74	-63.94	12.68	-4.48	-40.00	-15.74
7250.000	-53.21	-58.78	10.80	-5.23	-40.00	-13.21
10875.000	-48.67	-53.01	10.95	-6.61	-40.00	-8.67

~ End of Report ~

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