

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT****Partial**

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

**Manufacturer:** Telit Wireless Solutions. Co. Ltd.  
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**Product Name:** LN920A12-WW / LN920A6-WW

**Brand Name:** Telit

**Model No.:** LN920A12-WW / LN920A6-WW

**Model Difference:** Refer to Page 4

**Report Number:** TERF2206000797ER

**FCC ID** RI7LN920

**IC:** 5131A-LN920

**Issue Date:** July 5, 2022

**Date of Test:** June 8, 2022 ~ June 24, 2022

**Date of EUT Received:** June 6, 2022

**Approved By** \_\_\_\_\_**Blue Yang****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 & 27 C and ISED RSS-Gen, 132, 199.

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
TERF2206000797ER	00	HW change from 1.0 to 1.1	July 5, 2022	Yuri Tsai	

**Note:**

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received, and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is a partial test report with modification from HW1.0 to HW 1.1 based on the EUT in the original report ER/2021/A0030-01 to demonstrate compliance of modification of RF switches and passive filters with identical specification. Maximum output power, conducted out of band emissions and spurious emissions are tested in this report.

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	1. Internal Component is different between two modes. 2. Capability is different between two models.
Hardware Version:	1.1
Firmware Version:	LN920A12-WW: M0L.000002 / LN920A6-WW : M0L.010002
EUT Series No.:	354175753009531
Power Supply:	3.3Vdc
Test Software (Name/Version)	Default

### 1.2 Model difference

- The mobile data modem chip on U200 between two models are pin for pin compatible with identical internal circuits.
- The **LN920A6-WW** uses MOBILE DATA MODEM SDX12-2 with CAT12 features disabled by a fuse bit with different FVIN.
- The **LN920A12-WW** is tested as the representative sample with the most modem capabilities.

Model	FVIN	Component on U200	Modem Capability
<b>LN920A12-WW</b>	M0L.000002	MOBILE DATA MODEM SDX12-0	LTE, 4 × 4 MIMO, CA 60 MHz DL 256QAM DL, CA 40 MHz UL, 64 QAM UL,
<b>LN920A6-WW</b>	M0L.010002	MOBILE DATA MODEM SDX12-2	LTE, 4 × 4 MIMO, CA 40 MHz DL, 64 QAM DL, CA 20 MHz UL, 16 QAM UL

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### 1.3 Operation Frequency Range

LTE Band 5B	
BW (MHz)	Operation Frequency (MHz)
15	831.5 - 841.5
20	834.0 - 839.0
LTE Band 7C	
BW (MHz)	Operation Frequency (MHz)
30	2515.0 - 2555.0
35	2517.5 - 2552.5
40	2520.0 - 2550.0
LTE Band 38C	
BW (MHz)	Operation Frequency (MHz)
30	2585.0 - 2605.0
40	2590.0 - 2600.0
LTE Band 41C	
BW (MHz)	Operation Frequency (MHz)
25	2508.5 - 2677.5
30	2511.0 - 2675.0
35	2513.5 - 2672.5
40	2516.0 - 2670.0

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### 1.4 Antenna Designation

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

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Monopole	LTE-Band 5	824 ~ 849	3.2
	LTE-Band 7	2500 ~ 2570	3.12
	LTE-Band 38	2570 ~ 2620	3.12
	LTE-Band 41	2496 ~ 2690	3.12

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

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### 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 27C.

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

### 1.6 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	
		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.

### 1.7 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 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 Final Amplifier Voltage and Current Information:

### LTE CA Band 5B

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 5B 10M+10M QPSK	3.3	480

### LTE CA Band 7C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 7C 20M+20M QPSK	3.3	460

### LTE CA Band 38C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 38C 20M+20M QPSK	3.3	480

### LTE CA Band 41C

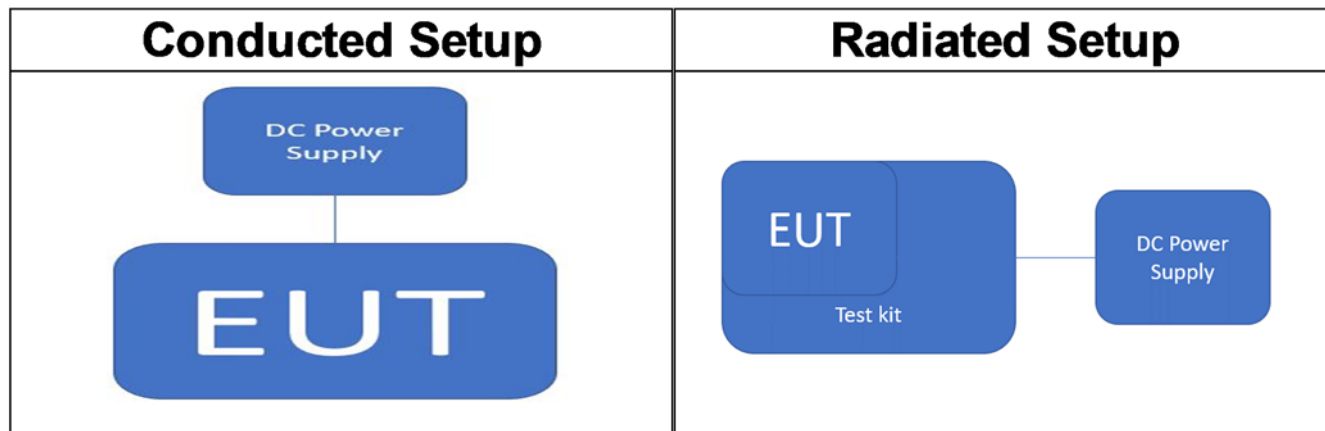
Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 41C 20M+20M QPSK	3.3	470

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## 2.6 Test Configuration



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

## 2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §27.50(h)(2)	RSS-132 §5.4 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1051 §22.917(a) §27.53(m)(4)(6)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §27.53(m)(4)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Test Channel Details

This device supports with carrier aggregation (two carrier) uplink, Intra-Band contiguous and Inter-Band non-contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set		
E-UTRA CA configuration	Component carriers in order of in-creasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated band-width [MHz]
CA_5C	5+10 / 10+5	15
	10+10	20
CA_7C	10+20 / 20+10 / 15+15	30
	15+20 / 20+15	35
	20+20	40
CA_38C	15+15	30
	20+20	40
CA_41C	5+20 / 20+5	25
	10+20 / 20+10 / 15+15	30
	15+20 / 20+15	35
	20+20	40

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## 4.2 The Worst-Case Test Modes and Details

1. This EUT is UE LTE 4G 1Tx/2Rx device for single carrier that can support uplink Band 5/7/38/41 with uplink carrier aggregation (CA).
2. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK results the highest, hence all testing was performed using QPSK modulations to represent the worst case.
3. Pre-scanned on the lower, middle and the higher channels of each frequency band for occupied bandwidth, frequency stability, conducted unwanted emission and peak to average ratio measurements, the middle one results in the highest emission which demonstrated in this report.
4. Measurements of Band Edge and Emission Mask with the widest and narrowest BW combinations were tested. Combinations of same BW is considered equivalent. The RB combinations were selected as the signal activated closest to the band limit for determining the worst case scenario.
5. For Out of Band Emissions: The widest and narrowest RB combinations was tested to determine the worst case scenario with combinations generate higher emissions.
6. 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.

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### 4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwidth, configurations that generates highest output power in standalone transmission have been selected for the final test.

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #						
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Max. Output Power	5B	v	v	v		v	v					v	v	v					v	v
	7C	v	v	v					v	v	v	v	v	v					v	v
	38C	v	v	v					v		v	v	v	v					v	v
	41C	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	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Band Edge	5B	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	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Mask	7C	v	v	v					v	v	v				v					v
	38C	v	v	v					v	v	v				v					v
	41C	v	v	v					v		v	v			v					v

### Radiated Emission

Band	Test Channel	Channel Bandwidth (MHz)	Modulation	PCC RB		SCC1 RB	
				Size	Offset	Size	Offset
5C	Low, Mid, High	10+10	QPSK	1	49	1	0
7C	Low, Mid, High	20+15	QPSK	1	99	1	0
38C	Low, Mid, High	15+15	QPSK	1	74	1	0
41C	Low, Mid, High	15+15	QPSK	1	74	1	0
42C	Low, Mid, High	20+5	QPSK	1	99	1	0

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 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 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Agilent	E3640A	MY52410006	12/21/2021	12/20/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/14/2021	12/13/2022

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## 6.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/16/2022	05/15/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC1 chamber	N/A	01/01/2022	12/31/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2021	10/25/2022
Signal Generator	R&S	SMBV100A	263084	01/11/2022	01/10/2023
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/04/2021	08/03/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/14/2021	12/13/2022
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/14/2021	12/13/2022
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/14/2021	12/13/2022
1.3G-15GHz High Pass Filter	WI	WHKX10-1066-80SS	19	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/14/2021	12/13/2022
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2021	12/15/2022

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## 7 MAXIMUM OUTPUT POWER

### 7.1 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.

#### 7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

##### FCC 22.913(a)

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

##### FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

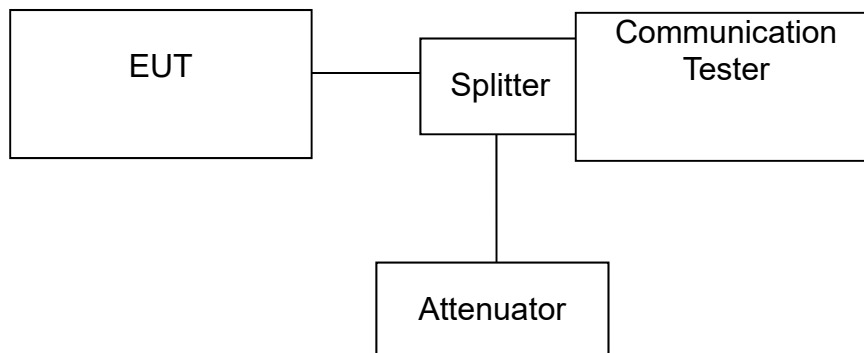
##### RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

##### RSS-199 §4.4

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

### 7.2 Test Set-up



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

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### 7.3 Output Power Measurement Applicable Guidance

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.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

### 7.4 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)<sup>2</sup>), 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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## 7.5 LTE Measurement Results:

### 7.5.1 Intra-Band

Part 22 / RSS 132_ ERP Limit (W)		7		OUTPUT POWER FOR LTE BAND 5B (5MHz + 10MHz)															
Antenna Gain		3.2		Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	ERP Average	ERP Average
Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset		PCC	SCC1	Total	(dBm)	(dBm)	(W)				
5MHz+ 10MHz	20428	826.8	20500	834.0	QPSK	1	24	1	0	19.53	19.59	22.71	25.91	23.76	0.238				
						25	0	50	0	17.84	17.86	20.86	24.06	21.91	0.155				
	20478	831.8	20550	839.0	QPSK	1	24	1	0	19.65	19.64	22.77	25.97	23.82	0.241				
						25	0	50	0	18.72	18.65	21.70	24.90	22.75	0.188				
	20528	836.8	20600	844.0	QPSK	1	24	1	0	17.62	17.64	20.78	23.98	21.83	0.152				
						25	0	50	0	18.89	18.20	21.57	24.77	22.62	0.183				
5MHz+ 10MHz	20428	826.8	20500	834.0	16QAM	1	24	1	0	19.12	18.58	22.00	25.20	23.05	0.202				
						25	0	50	0	17.64	17.62	20.64	23.84	21.69	0.148				
	20478	831.8	20550	839.0	16QAM	1	24	1	0	18.19	17.66	21.09	24.29	22.14	0.164				
						25	0	50	0	17.83	17.40	20.64	23.84	21.69	0.148				
	20528	836.8	20600	844.0	16QAM	1	24	1	0	17.89	17.59	20.86	24.06	21.91	0.155				
						25	0	50	0	17.70	17.35	20.55	23.75	21.60	0.145				
5MHz+ 10MHz	20428	826.8	20500	834.0	64QAM	1	24	1	0	17.78	16.99	20.54	23.74	21.59	0.144				
						25	0	50	0	17.48	17.82	20.67	23.87	21.72	0.149				
	20478	831.8	20550	839.0	64QAM	1	24	1	0	17.56	16.88	20.37	23.57	21.42	0.139				
						25	0	50	0	17.85	17.37	20.63	23.83	21.68	0.147				
	20528	836.8	20600	844.0	64QAM	1	24	1	0	17.94	17.31	20.81	24.01	21.86	0.153				
						25	0	50	0	17.28	17.73	20.53	23.73	21.58	0.144				
Part 22 / RSS 132_ ERP Limit (W)		7		OUTPUT POWER FOR LTE BAND 5B (10MHz + 5MHz)															
Antenna Gain		3.2		Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	ERP Average	ERP Average
Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset		PCC	SCC1	Total	(dBm)	(dBm)	(W)				
10MHz+ 5MHz	20450	829.0	20522	836.2	QPSK	1	49	1	0	20.45	20.53	23.63	26.83	24.68	0.294				
						50	0	25	0	18.57	18.59	21.60	24.80	22.65	0.184				
	20500	834.0	20572	841.2	QPSK	1	49	1	0	20.41	20.48	23.59	26.79	24.64	0.291				
						50	0	25	0	18.71	18.67	21.71	24.91	22.76	0.189				
	20550	839.0	20622	846.2	QPSK	1	49	1	0	20.36	20.33	23.47	26.67	24.52	0.283				
						50	0	25	0	18.78	18.32	21.58	24.78	22.63	0.183				
10MHz+ 5MHz	20450	829.0	20522	836.2	16QAM	1	49	1	0	19.42	19.36	22.53	25.73	23.58	0.228				
						50	0	25	0	17.61	17.59	20.61	23.81	21.66	0.147				
	20500	834.0	20572	841.2	16QAM	1	49	1	0	19.81	19.79	22.94	26.14	23.99	0.251				
						50	0	25	0	17.62	17.61	20.64	23.84	21.69	0.148				
	20550	839.0	20622	846.2	16QAM	1	49	1	0	19.27	19.32	22.43	25.63	23.48	0.223				
						50	0	25	0	16.97	17.98	20.52	23.72	21.57	0.144				
10MHz+ 5MHz	20450	829.0	20522	836.2	64QAM	1	49	1	0	17.34	17.30	20.46	23.66	21.51	0.142				
						50	0	25	0	17.60	17.62	20.63	23.83	21.68	0.147				
	20500	834.0	20572	841.2	64QAM	1	49	1	0	17.61	17.45	20.66	23.86	21.71	0.148				
						50	0	25	0	17.62	17.70	20.68	23.88	21.73	0.149				
	20550	839.0	20622	846.2	64QAM	1	49	1	0	17.37	17.33	20.50	23.70	21.55	0.143				
						50	0	25	0	19.66	12.70	20.47	23.67	21.52	0.142				

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Part 22 / RSS 132_ ERP Limit (W)	7
Antenna Gain	3.2

**OUTPUT POWER FOR LTE BAND 5B (10MHz + 10MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	ERP Average	ERP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
10MHz+ 10MHz	20450	829.0	20549	838.9	QPSK	1	49	1	0	20.48	20.43	23.57	26.77	24.62	0.290
						50	0	50	0	18.84	18.43	21.66	24.86	22.71	0.187
	20476	831.6	20575	841.5	QPSK	1	49	1	0	20.99	20.00	23.64	26.84	24.69	0.294
						50	0	50	0	18.60	18.56	21.60	24.80	22.65	0.184
	20501	834.1	20600	844.0	QPSK	1	49	1	0	20.49	20.41	23.60	26.80	24.65	0.292
						50	0	50	0	18.63	18.71	21.68	24.88	22.73	0.187
10MHz+ 10MHz	20450	829.0	20549	838.9	16QAM	1	49	1	0	19.12	19.16	22.27	25.47	23.32	0.215
						50	0	50	0	17.90	17.47	20.70	23.90	21.75	0.150
	20476	831.6	20575	841.5	16QAM	1	49	1	0	19.36	19.34	22.47	25.67	23.52	0.225
						50	0	50	0	17.71	17.67	20.70	23.90	21.75	0.150
	20501	834.1	20600	844.0	16QAM	1	49	1	0	19.25	19.32	22.40	25.60	23.45	0.221
						50	0	50	0	17.68	17.69	20.71	23.91	21.76	0.150
10MHz+ 10MHz	20450	829.0	20549	838.9	64QAM	1	49	1	0	17.74	17.74	20.84	24.04	21.89	0.155
						50	0	50	0	17.93	17.50	20.74	23.94	21.79	0.151
	20476	831.6	20575	841.5	64QAM	1	49	1	0	17.83	17.20	20.69	23.89	21.74	0.149
						50	0	50	0	17.84	17.37	20.63	23.83	21.68	0.147
	20501	834.1	20600	844.0	64QAM	1	49	1	0	17.54	17.54	20.69	23.89	21.74	0.149
						50	0	50	0	17.70	17.69	20.71	23.91	21.76	0.150

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (10MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+ 20MHz	20805	2505.5	20949	2519.9	QPSK	1	49	1	0	20.23	20.30	23.39	26.51	0.448
						50	0	100	0	18.33	18.37	21.36	24.48	0.281
	21006	2525.6	21150	2540.0	QPSK	1	49	1	0	20.32	20.34	23.45	26.57	0.454
						50	0	100	0	18.25	18.33	21.30	24.42	0.277
	21206	2545.6	21350	2560.0	QPSK	1	49	1	0	20.07	20.01	23.18	26.30	0.427
						50	0	100	0	18.29	18.17	21.24	24.36	0.273
10MHz+ 20MHz	20805	2505.5	20949	2519.9	16QAM	1	49	1	0	19.01	18.94	22.13	25.25	0.335
						50	0	100	0	17.29	17.34	20.33	23.45	0.221
	21006	2525.6	21150	2540.0	16QAM	1	49	1	0	19.22	19.21	22.37	25.49	0.354
						50	0	100	0	17.24	17.33	20.30	23.42	0.220
	21206	2545.6	21350	2560.0	16QAM	1	49	1	0	19.09	18.85	22.12	25.24	0.334
						50	0	100	0	17.31	17.21	20.27	23.39	0.218
10MHz+ 20MHz	20805	2505.5	20949	2519.9	64QAM	1	49	1	0	17.08	17.10	20.24	23.36	0.217
						50	0	100	0	17.35	17.37	20.35	23.47	0.222
	21006	2525.6	21150	2540.0	64QAM	1	49	1	0	17.17	17.20	20.35	23.47	0.222
						50	0	100	0	17.29	17.31	20.32	23.44	0.221
	21206	2545.6	21350	2560.0	64QAM	1	49	1	0	17.02	16.88	20.09	23.21	0.209
						50	0	100	0	17.28	17.18	20.24	23.36	0.217

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (15MHz + 15MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	20825	2507.5	20975	2522.5	QPSK	1	74	1	0	20.35	20.29	23.48	26.60	0.457
						75	0	75	0	18.32	18.51	21.43	24.55	0.285
	21025	2527.5	21175	2542.5	QPSK	1	74	1	0	20.28	20.28	23.42	26.54	0.451
						75	0	75	0	18.40	18.39	21.41	24.53	0.284
	21225	2547.5	21375	2562.5	QPSK	1	74	1	0	20.22	20.24	23.38	26.50	0.447
						75	0	75	0	18.31	18.24	21.29	24.41	0.276
15MHz+ 15MHz	20825	2507.5	20975	2522.5	16QAM	1	74	1	0	18.98	18.93	22.09	25.21	0.332
						75	0	75	0	17.39	17.44	20.43	23.55	0.226
	21025	2527.5	21175	2542.5	16QAM	1	74	1	0	19.01	19.11	22.20	25.32	0.340
						75	0	75	0	17.29	17.34	20.33	23.45	0.221
	21225	2547.5	21375	2562.5	16QAM	1	74	1	0	18.78	18.81	21.94	25.06	0.321
						75	0	75	0	17.29	17.13	20.22	23.34	0.216
15MHz+ 15MHz	20825	2507.5	20975	2522.5	64QAM	1	74	1	0	17.29	17.31	20.31	23.43	0.220
						75	0	75	0	17.17	17.18	20.35	23.47	0.222
	21025	2527.5	21175	2542.5	64QAM	1	74	1	0	17.26	17.46	20.51	23.63	0.231
						75	0	75	0	17.36	17.31	20.35	23.47	0.222
	21225	2547.5	21375	2562.5	64QAM	1	74	1	0	17.14	17.12	20.14	23.26	0.212
						75	0	75	0	17.29	17.12	20.22	23.34	0.216

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (15MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 20MHz	20828	2507.8	20999	2524.9	QPSK	1	74	1	0	20.22	20.26	23.38	26.50	0.447
						75	0	100	0	18.37	18.39	21.39	24.51	0.282
	21003	2525.3	21174	2542.4	QPSK	1	74	1	0	20.11	20.11	23.24	26.36	0.433
						75	0	100	0	18.39	18.38	21.39	24.51	0.282
	21179	2542.9	21350	2560.0	QPSK	1	74	1	0	20.26	20.11	23.32	26.44	0.441
						75	0	100	0	18.34	18.27	21.32	24.44	0.278
15MHz+ 20MHz	20828	2507.8	20999	2524.9	16QAM	1	74	1	0	19.04	19.05	22.18	25.30	0.339
						75	0	100	0	17.33	17.41	20.39	23.51	0.224
	21003	2525.3	21174	2542.4	16QAM	1	74	1	0	19.18	19.13	22.29	25.41	0.348
						75	0	100	0	17.33	17.38	20.37	23.49	0.223
	21179	2542.9	21350	2560.0	16QAM	1	74	1	0	18.89	18.81	22.00	25.12	0.325
						75	0	100	0	17.40	17.27	20.35	23.47	0.222
15MHz+ 20MHz	20828	2507.8	20999	2524.9	64QAM	1	74	1	0	17.00	17.00	20.12	23.24	0.211
						75	0	100	0	17.40	17.50	20.46	23.58	0.228
	21003	2525.3	21174	2542.4	64QAM	1	74	1	0	17.16	17.16	20.28	23.40	0.219
						75	0	100	0	17.37	17.36	20.38	23.50	0.224
	21179	2542.9	21350	2560.0	64QAM	1	74	1	0	17.15	17.13	20.26	23.38	0.218
						75	0	100	0	17.42	17.21	20.33	23.45	0.221

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (20MHz + 10MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+10MHz	20850	2510.0	20994	2524.4	QPSK	1	99	1	0	20.37	20.33	23.48	26.60	0.457
						100	0	50	0	18.34	18.29	21.33	24.45	0.279
	21051	2530.1	21195	2544.5	QPSK	1	99	1	0	20.42	20.35	23.53	26.65	0.462
						100	0	50	0	19.18	18.50	21.87	24.99	0.316
	21251	2550.1	21395	2564.5	QPSK	1	99	1	0	20.15	20.15	23.26	26.38	0.435
						100	0	50	0	18.39	18.22	21.32	24.44	0.278
20MHz+10MHz	20850	2510.0	20994	2524.4	16QAM	1	99	1	0	19.11	19.16	22.31	25.43	0.349
						100	0	50	0	17.37	17.26	20.33	23.45	0.221
	21051	2530.1	21195	2544.5	16QAM	1	99	1	0	19.35	19.28	22.47	25.59	0.362
						100	0	50	0	18.24	17.51	20.91	24.03	0.253
	21251	2550.1	21395	2564.5	16QAM	1	99	1	0	18.86	18.90	22.01	25.13	0.326
						100	0	50	0	17.34	17.23	20.30	23.42	0.220
20MHz+10MHz	20850	2510.0	20994	2524.4	64QAM	1	99	1	0	17.25	17.32	20.43	23.55	0.226
						100	0	50	0	17.32	17.33	20.34	23.46	0.222
	21051	2530.1	21195	2544.5	64QAM	1	99	1	0	17.17	17.18	20.33	23.45	0.221
						100	0	50	0	18.29	17.60	20.97	24.09	0.256
	21251	2550.1	21395	2564.5	64QAM	1	99	1	0	16.82	16.85	20.00	23.12	0.205
						100	0	50	0	17.34	17.18	20.28	23.40	0.219

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (20MHz + 15MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+15MHz	20850	2510.0	21021	2527.1	QPSK	1	99	1	0	20.37	20.37	23.51	26.63	0.460
						100	0	75	0	18.40	18.42	21.42	24.54	0.284
	21026	2527.6	21197	2544.7	QPSK	1	99	1	0	20.22	20.21	23.34	26.46	0.443
						100	0	75	0	18.39	18.35	21.38	24.50	0.282
	21201	2545.1	21372	2562.2	QPSK	1	99	1	0	20.48	20.37	23.56	26.68	0.466
						100	0	75	0	18.39	18.28	21.35	24.47	0.280
20MHz+15MHz	20850	2510.0	21021	2527.1	16QAM	1	99	1	0	19.20	19.28	22.41	25.53	0.357
						100	0	75	0	17.34	17.27	20.32	23.44	0.221
	21026	2527.6	21197	2544.7	16QAM	1	99	1	0	18.97	18.89	22.09	25.21	0.332
						100	0	75	0	17.36	17.35	20.37	23.49	0.223
	21201	2545.1	21372	2562.2	16QAM	1	99	1	0	18.71	18.67	21.86	24.98	0.315
						100	0	75	0	17.38	17.16	20.28	23.40	0.219
20MHz+15MHz	20850	2510.0	21021	2527.1	64QAM	1	99	1	0	17.08	17.10	20.22	23.34	0.216
						100	0	75	0	17.29	17.31	20.31	23.43	0.220
	21026	2527.6	21197	2544.7	64QAM	1	99	1	0	17.15	17.20	20.36	23.48	0.223
						100	0	75	0	17.36	17.40	20.39	23.51	0.224
	21201	2545.1	21372	2562.2	64QAM	1	99	1	0	16.91	16.99	20.09	23.21	0.209
						100	0	75	0	17.38	17.16	20.28	23.40	0.219

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 7C (20MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+ 20MHz	20850	2510.0	21048	2529.8	QPSK	1	99	1	0	20.21	20.26	23.39	26.51	0.448
						100	0	100	0	18.32	18.36	21.35	24.47	0.280
	21001	2525.1	21199	2544.9	QPSK	1	99	1	0	20.13	20.18	23.26	26.38	0.435
						100	0	100	0	18.35	18.35	21.36	24.48	0.281
	21152	2540.2	21350	2560.0	QPSK	1	99	1	0	20.23	20.12	23.30	26.42	0.439
						100	0	100	0	18.55	18.43	21.05	24.17	0.261
20MHz+ 20MHz	20850	2510.0	21048	2529.8	16QAM	1	99	1	0	19.48	19.62	22.70	25.82	0.382
						100	0	100	0	17.34	17.39	20.38	23.50	0.224
	21001	2525.1	21199	2544.9	16QAM	1	99	1	0	18.14	19.38	22.40	25.52	0.356
						100	0	100	0	17.36	17.36	20.38	23.50	0.224
	21152	2540.2	21350	2560.0	16QAM	1	99	1	0	18.98	18.95	22.10	25.22	0.333
						100	0	100	0	17.54	17.34	20.45	23.57	0.228
20MHz+ 20MHz	20850	2510.0	21048	2529.8	64QAM	1	99	1	0	16.98	17.00	20.14	23.26	0.212
						100	0	100	0	17.40	17.33	20.38	23.50	0.224
	21001	2525.1	21199	2544.9	64QAM	1	99	1	0	17.36	17.23	20.47	23.59	0.229
						100	0	100	0	17.43	17.45	20.45	23.57	0.228
	21152	2540.2	21350	2560.0	64QAM	1	99	1	0	17.27	17.19	20.36	23.48	0.223
						100	0	100	0	17.43	17.31	20.39	23.51	0.224

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 38C (15MHz + 15MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	37825	2577.5	37975	2592.5	QPSK	1	74	1	0	20.03	19.94	23.15	26.27	0.424
						75	0	75	0	18.27	18.25	21.27	24.39	0.275
	37925	2587.5	38075	2602.5	QPSK	1	74	1	0	19.92	19.79	23.02	26.14	0.411
						75	0	75	0	18.23	18.06	21.16	24.28	0.268
	38025	2597.5	38175	2612.5	QPSK	1	74	1	0	19.96	19.86	23.07	26.19	0.416
						75	0	75	0	18.32	18.25	21.30	24.42	0.277
15MHz+ 15MHz	37825	2577.5	37975	2592.5	16QAM	1	74	1	0	19.02	19.05	22.17	25.29	0.338
						75	0	75	0	17.37	17.34	20.36	23.48	0.223
	37925	2587.5	38075	2602.5	16QAM	1	74	1	0	18.96	19.04	22.13	25.25	0.335
						75	0	75	0	17.30	17.24	20.28	23.40	0.219
	38025	2597.5	38175	2612.5	16QAM	1	74	1	0	18.98	18.99	22.12	25.24	0.334
						75	0	75	0	17.27	17.18	20.24	23.36	0.217
15MHz+ 15MHz	37825	2577.5	37975	2592.5	64QAM	1	74	1	0	16.71	16.68	19.86	22.98	0.199
						75	0	75	0	17.36	17.22	20.30	23.42	0.220
	37925	2587.5	38075	2602.5	64QAM	1	74	1	0	16.60	16.63	19.78	22.90	0.195
						75	0	75	0	17.36	17.22	20.30	23.42	0.220
	38025	2597.5	38175	2612.5	64QAM	1	74	1	0	16.64	16.59	19.78	22.90	0.195
						75	0	75	0	17.25	17.16	20.22	23.34	0.216

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 38C (20MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+ 20MHz	37850	2580.0	38048	2599.8	QPSK	1	99	1	0	20.00	19.93	23.11	26.23	0.420
						100	0	100	0	18.39	18.19	21.30	24.42	0.277
	37901	2585.1	38099	2604.9	QPSK	1	99	1	0	19.90	19.89	23.04	26.16	0.413
						100	0	100	0	18.44	18.21	21.34	24.46	0.279
	37952	2590.2	38150	2610.0	QPSK	1	99	1	0	19.81	19.95	23.02	26.14	0.411
						100	0	100	0	18.21	18.06	21.15	24.27	0.267
20MHz+ 20MHz	37850	2580.0	38048	2599.8	16QAM	1	99	1	0	19.03	19.08	22.19	25.31	0.340
						100	0	100	0	17.30	17.20	20.26	23.38	0.218
	37901	2585.1	38099	2604.9	16QAM	1	99	1	0	18.96	18.97	22.09	25.21	0.332
						100	0	100	0	17.32	17.10	20.22	23.34	0.216
	37952	2590.2	38150	2610.0	16QAM	1	99	1	0	18.96	19.02	22.12	25.24	0.334
						100	0	100	0	17.35	17.21	20.29	23.41	0.219
20MHz+ 20MHz	37850	2580.0	38048	2599.8	64QAM	1	99	1	0	16.79	16.68	19.88	23.00	0.200
						100	0	100	0	17.35	17.24	20.31	23.43	0.220
	37901	2585.1	38099	2604.9	64QAM	1	99	1	0	16.76	16.71	19.87	22.99	0.199
						100	0	100	0	17.38	17.17	20.29	23.41	0.219
	37952	2590.2	38150	2610.0	64QAM	1	99	1	0	16.72	16.72	19.87	22.99	0.199
						100	0	100	0	17.22	17.07	20.16	23.28	0.213

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (5MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
5MHz+ 20MHz	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	20.18	20.11	23.26	26.38	0.435
						25	0	100	0	18.30	18.33	21.33	24.45	0.279
	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	20.17	20.18	23.30	26.42	0.439
						25	0	100	0	18.35	18.33	21.36	24.48	0.281
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	20.12	20.06	23.21	26.33	0.430
						25	0	100	0	17.87	17.80	20.85	23.97	0.249
5MHz+ 20MHz	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	19.31	19.28	22.41	25.53	0.357
						25	0	100	0	17.50	17.56	20.55	23.67	0.233
	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.32	19.37	22.46	25.58	0.361
						25	0	100	0	17.44	17.46	20.47	23.59	0.229
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	17.99	18.07	21.14	24.26	0.267
						25	0	100	0	17.08	17.11	20.11	23.23	0.210
5MHz+ 20MHz	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	16.93	16.83	20.01	23.13	0.206
						25	0	100	0	17.38	17.37	20.39	23.51	0.224
	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	16.93	16.90	20.05	23.17	0.207
						25	0	100	0	17.53	17.39	20.48	23.60	0.229
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	15.61	15.61	18.74	21.86	0.153
						25	0	100	0	17.21	18.20	20.22	23.34	0.216

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (10MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+ 20MHz	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	20.36	20.37	23.50	26.62	0.459
						50	0	100	0	18.59	18.63	21.62	24.74	0.298
	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.08	20.05	23.23	26.35	0.432
						50	0	100	0	18.45	18.42	21.45	24.57	0.286
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	20.92	20.87	24.03	27.15	0.519
						50	0	100	0	16.65	16.59	19.63	22.75	0.188
10MHz+ 20MHz	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.32	19.37	22.48	25.60	0.363
						50	0	100	0	17.43	17.47	20.46	23.58	0.228
	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	19.26	19.37	22.44	25.56	0.360
						50	0	100	0	17.38	17.35	20.38	23.50	0.224
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	19.85	19.84	22.97	26.09	0.406
						50	0	100	0	15.50	15.55	18.54	21.66	0.147
10MHz+ 20MHz	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	17.03	17.01	20.17	23.29	0.213
						50	0	100	0	17.35	17.38	20.38	23.50	0.224
	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	16.83	16.78	19.95	23.07	0.203
						50	0	100	0	17.35	17.33	20.35	23.47	0.222
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	17.56	17.58	20.72	23.84	0.242
						50	0	100	0	17.73	17.77	20.76	23.88	0.244

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (15MHz + 15MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	20.20	20.09	23.31	26.43	0.440
						75	0	75	0	18.44	18.43	21.45	24.57	0.286
	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	20.14	19.97	23.22	26.34	0.431
						75	0	75	0	18.36	18.26	21.32	24.44	0.278
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	20.60	20.45	23.69	26.81	0.480
						75	0	75	0	17.59	17.57	20.60	23.72	0.236
15MHz+ 15MHz	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	19.32	19.33	22.46	25.58	0.361
						75	0	75	0	17.48	17.47	20.49	23.61	0.230
	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	19.27	19.32	22.42	25.54	0.358
						75	0	75	0	17.39	17.30	20.36	23.48	0.223
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	19.60	19.66	22.76	25.88	0.387
						75	0	75	0	17.23	17.18	20.22	23.34	0.216
15MHz+ 15MHz	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	16.98	16.93	20.12	23.24	0.211
						75	0	75	0	17.43	17.53	20.50	23.62	0.230
	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	16.85	16.75	19.96	23.08	0.203
						75	0	75	0	17.53	17.34	20.45	23.57	0.228
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	17.32	17.23	20.44	23.56	0.227
						75	0	75	0	17.11	17.06	20.10	23.22	0.210

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (15MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 20MHz	39728	2503.8	39899	2520.9	QPSK	1	74	1	0	20.16	20.26	23.33	26.45	0.442
						75	0	100	0	18.48	18.50	21.50	24.62	0.290
	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	20.16	20.13	23.27	26.39	0.436
						75	0	100	0	18.39	18.33	21.37	24.49	0.281
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	20.02	20.03	23.15	26.27	0.424
						75	0	100	0	18.99	18.91	21.97	25.09	0.323
15MHz+ 20MHz	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	19.36	19.42	22.51	25.63	0.366
						75	0	100	0	17.47	17.51	20.51	23.63	0.231
	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	19.20	19.31	22.38	25.50	0.355
						75	0	100	0	17.51	17.38	20.46	23.58	0.228
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	19.10	19.16	22.25	25.37	0.344
						75	0	100	0	17.08	17.14	20.13	23.25	0.211
15MHz+ 20MHz	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	16.91	16.91	20.06	23.18	0.208
						75	0	100	0	17.45	17.47	20.47	23.59	0.229
	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	17.33	16.91	20.27	23.39	0.218
						75	0	100	0	17.49	17.36	20.44	23.56	0.227
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	17.46	17.56	20.65	23.77	0.238
						75	0	100	0	17.09	17.12	20.12	23.24	0.211

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (20MHz + 5MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+ 5MHz	39750	2506.0	39867	2517.7	QPSK	1	99	1	0	20.19	20.16	23.34	26.46	0.443
						100	0	25	0	18.15	18.64	21.42	24.54	0.284
	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	20.10	20.05	23.24	26.36	0.433
						100	0	25	0	16.97	17.96	20.51	23.63	0.231
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	17.92	17.84	21.04	24.16	0.261
						100	0	25	0	17.41	17.45	20.45	23.57	0.228
20MHz+ 5MHz	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	19.35	19.37	22.49	25.61	0.364
						100	0	25	0	16.95	17.42	20.21	23.33	0.215
	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	19.22	19.22	22.35	25.47	0.352
						100	0	25	0	16.99	17.00	20.01	23.13	0.206
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	17.09	17.06	20.20	23.32	0.215
						100	0	25	0	17.22	16.28	19.79	22.91	0.195
20MHz+ 5MHz	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	16.94	16.92	20.07	23.19	0.208
						100	0	25	0	16.87	17.40	20.16	23.28	0.213
	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	16.77	16.73	19.89	23.01	0.200
						100	0	25	0	17.09	17.17	20.15	23.27	0.212
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	16.14	14.68	18.61	21.73	0.149
						100	0	25	0	18.06	16.17	20.23	23.35	0.216

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (20MHz + 10MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+10MHz	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	20.50	20.54	23.66	26.78	0.476
						100	0	50	0	18.41	18.38	21.41	24.53	0.284
	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	20.20	20.21	23.34	26.46	0.443
						100	0	50	0	18.33	18.26	21.31	24.43	0.277
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	19.93	19.96	23.08	26.20	0.417
						100	0	50	0	18.09	17.97	21.04	24.16	0.261
20MHz+10MHz	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	19.57	19.63	22.72	25.84	0.384
						100	0	50	0	17.59	17.67	20.64	23.76	0.238
	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	19.46	19.48	22.60	25.72	0.373
						100	0	50	0	17.57	17.42	20.50	23.62	0.230
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	19.25	19.19	22.34	25.46	0.352
						100	0	50	0	17.04	17.05	20.06	23.18	0.208
20MHz+10MHz	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	17.17	17.16	20.31	23.43	0.220
						100	0	50	0	17.62	17.58	20.61	23.73	0.236
	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	16.96	16.91	20.08	23.20	0.209
						100	0	50	0	17.38	17.23	20.32	23.44	0.221
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	16.23	16.20	19.36	22.48	0.177
						100	0	50	0	17.22	17.11	20.18	23.30	0.214

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41C (20MHz + 15MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+15MHz	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	20.31	20.29	23.47	26.59	0.456
						100	0	75	0	18.59	18.54	21.58	24.70	0.295
	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	20.16	20.11	23.31	26.43	0.440
						100	0	75	0	18.43	18.25	21.35	24.47	0.280
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	20.02	20.01	23.19	26.31	0.428
						100	0	75	0	18.11	18.04	21.09	24.21	0.264
20MHz+15MHz	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	19.46	19.51	22.62	25.74	0.375
						100	0	75	0	17.48	17.42	20.46	23.58	0.228
	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	19.20	19.22	22.34	25.46	0.352
						100	0	75	0	17.54	17.48	20.52	23.64	0.231
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	19.05	19.02	22.17	25.29	0.338
						100	0	75	0	17.14	17.07	20.12	23.24	0.211
20MHz+15MHz	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	17.12	17.00	20.21	23.33	0.215
						100	0	75	0	17.47	17.43	20.47	23.59	0.229
	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	16.99	16.93	20.11	23.23	0.210
						100	0	75	0	17.57	17.41	20.50	23.62	0.230
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	16.68	16.57	19.77	22.89	0.195
						100	0	75	0	17.31	17.25	20.29	23.41	0.219

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	3.12

**OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+20MHz	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	20.36	20.35	23.50	26.62	0.459
						100	0	100	0	18.68	18.65	21.68	24.80	0.302
	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	20.29	20.26	23.41	26.53	0.450
						100	0	100	0	18.55	18.40	21.49	24.61	0.289
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	20.08	20.07	23.22	26.34	0.431
						100	0	100	0	19.09	18.90	22.01	25.13	0.326
20MHz+20MHz	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	19.32	19.43	22.51	25.63	0.366
						100	0	100	0	17.50	17.57	20.55	23.67	0.233
	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	19.32	19.31	22.44	25.56	0.360
						100	0	100	0	17.51	17.37	20.45	23.57	0.228
	41292	2660.2	41490	2680.0	16QAM	1	99	1	0	19.19	19.19	22.32	25.44	0.350
						100	0	100	0	17.96	17.87	20.93	24.05	0.254
20MHz+20MHz	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	16.99	16.94	20.11	23.23	0.210
						100	0	100	0	17.65	17.62	20.65	23.77	0.238
	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	16.96	16.89	20.07	23.19	0.208
						100	0	100	0	17.46	17.32	20.40	23.52	0.225
	41292	2660.2	41490	2680.0	64QAM	1	99	1	0	16.72	16.66	19.83	22.95	0.197
						100	0	100	0	18.11	17.93	21.03	24.15	0.260

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## 8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 8.1 Standard Applicable

**FCC §22.917(a), §27.53(h)**  
**RSS-132 §5.5, RSS-199 §4.5**

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.

**FCC §27.53(m) (4) (6)**

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

**ISED RSS-132 §5.5**

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10} p$  (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10} p$  (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

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**RSS-199 §4.5**

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least  $43 + 10 \log_{10} p$  for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$  from the channel edges to 5 MHz away

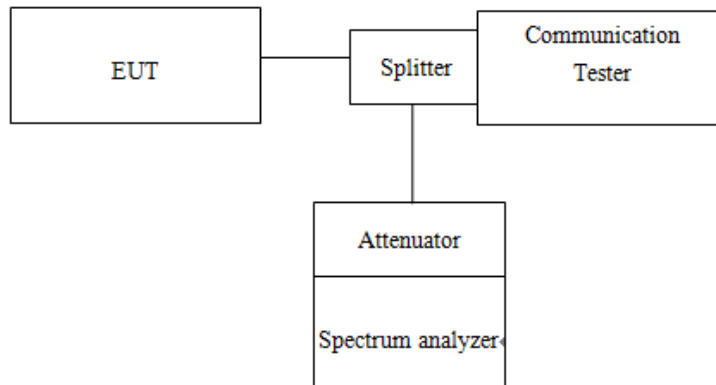
$43 + 10 \log_{10} p$  between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$  at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz, and  $55 + 10 \log_{10} p$  at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

**8.2 Test SET-UP**



**8.3 Measurement Procedure**

**8.3.1 Conducted Emission**

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

**8.3.2 Band Edge or Mask**

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured.

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Setting RBW  $\geq$  1% EBW.

3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

#### 8.4 Band Edge Measurement Result:

Refer to next pages.

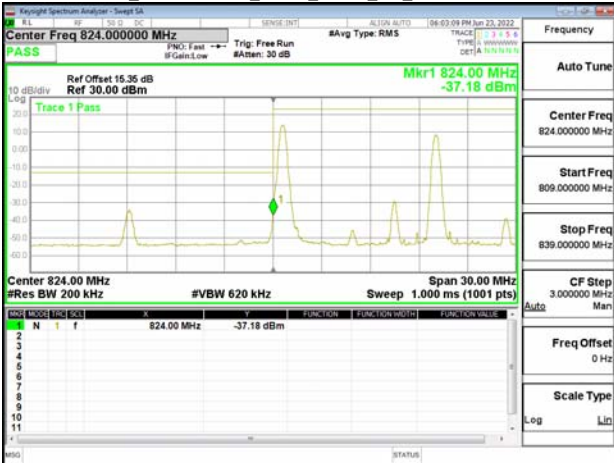
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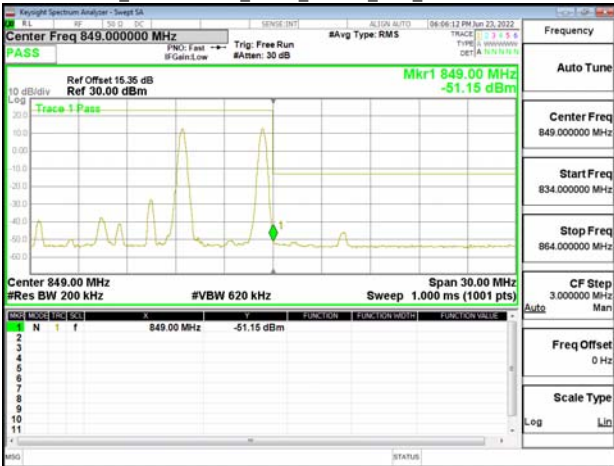
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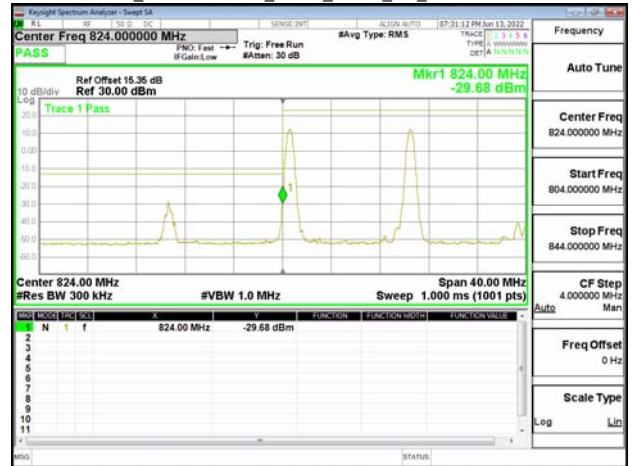
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Band5\_10MHz+5MHz\_QPSK\_RB1-49\_1-24\_CH20550-20622



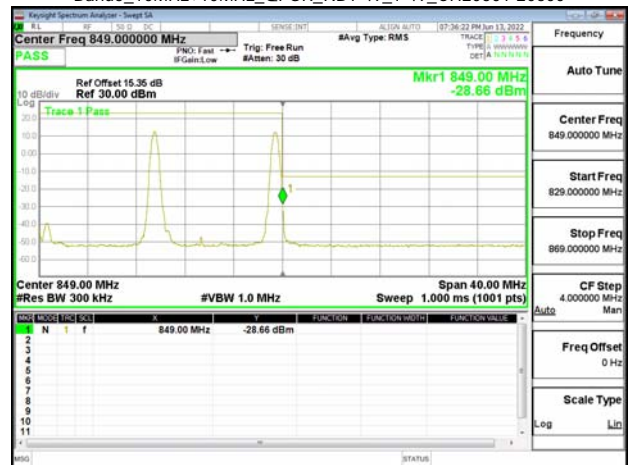
Band5\_10MHz+10MHz\_QPSK\_RB1-0\_1-0\_CH20450-20549



Band5\_10MHz+5MHz\_QPSK\_RB50-0\_25-0\_CH20450-20522



Band5\_10MHz+10MHz\_QPSK\_RB1-49\_1-49\_CH20501-20600



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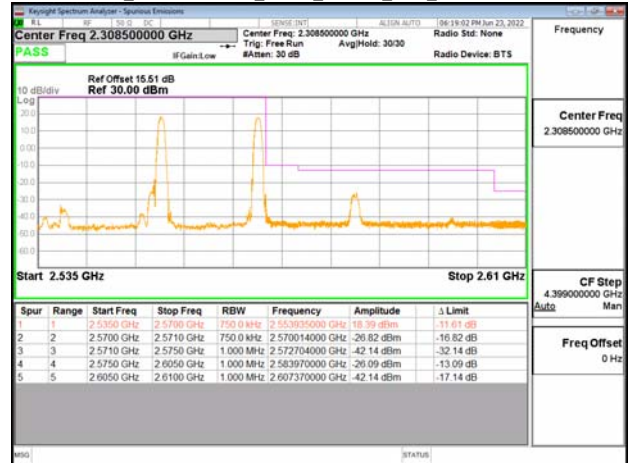
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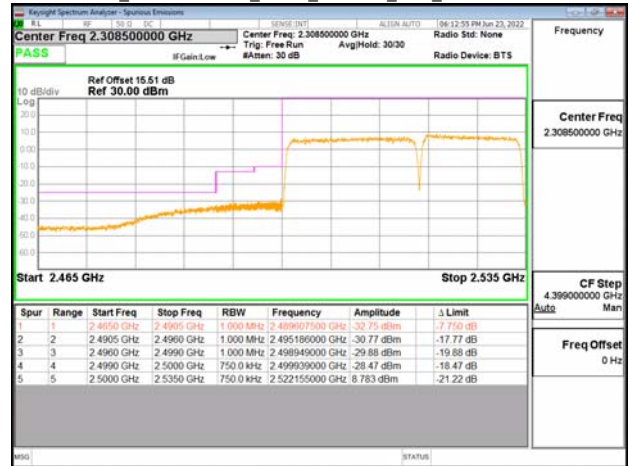
Band7\_20MHz+15MHz\_QPSK\_RB1-0\_1-0\_CH20850-21021



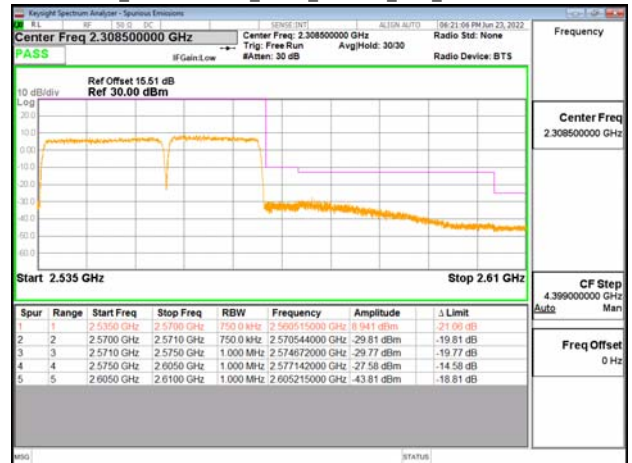
Band7\_20MHz+15MHz\_QPSK\_RB1-99\_1-74\_CH21201-21372



Band7\_20MHz+15MHz\_QPSK\_RB100-0\_75-0\_CH20850-21021



Band7\_20MHz+15MHz\_QPSK\_RB100-0\_75-0\_CH21201-21372



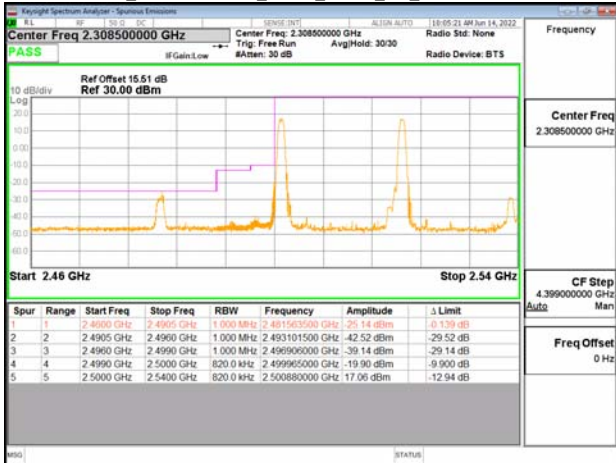
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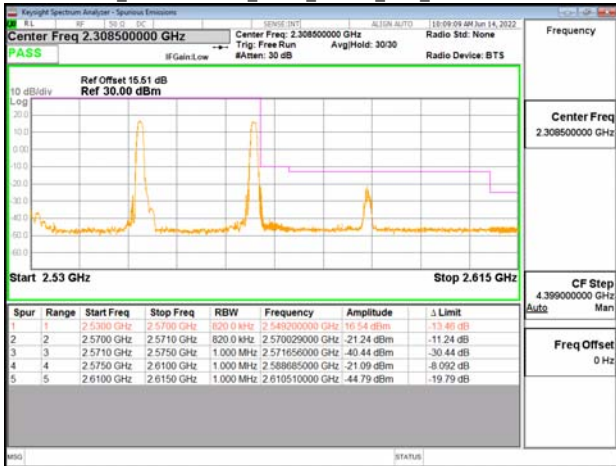
Band7\_20MHz+20MHz\_OPSK\_RB1-0\_1-0\_CH20850-21048



Band7\_20MHz+20MHz\_OPSK\_RB100-0\_100-0\_CH21152-21350



Band7\_20MHz+20MHz\_OPSK\_RB1-99\_1-99\_CH21152-21350



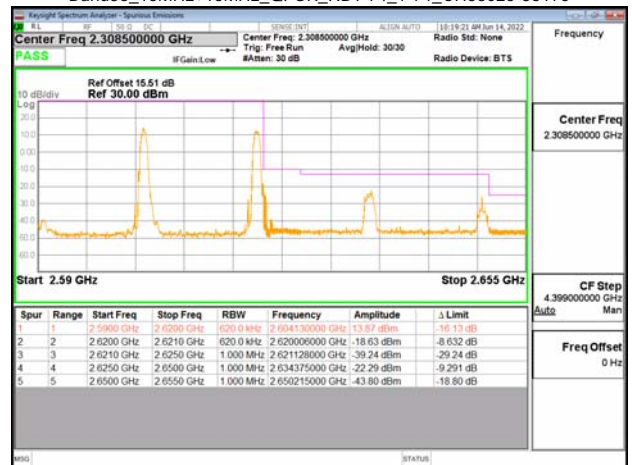
Band38\_15MHz+15MHz\_OPSK\_RB1-0\_1-0\_CH37825-37975



Band7\_20MHz+20MHz\_OPSK\_RB100-0\_100-0\_CH20850-21048



Band38\_15MHz+15MHz\_OPSK\_RB1-74\_1-74\_CH38025-38175



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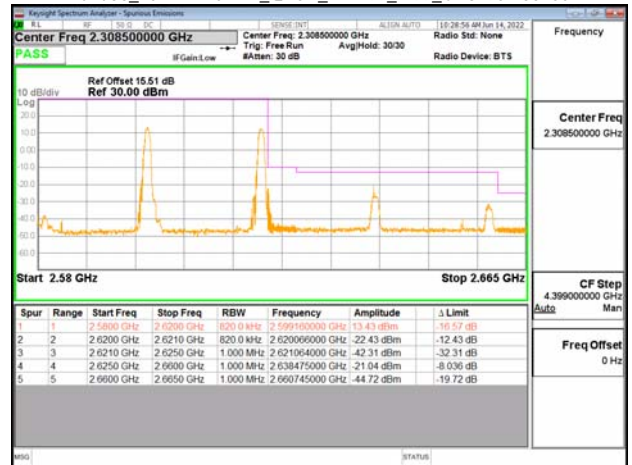
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Band38\_15MHz+15MHz\_QPSK\_RB75-0\_75-0\_CH37825-37975



Band38\_20MHz+20MHz\_QPSK\_RB1-99\_1-99\_CH37952-38150



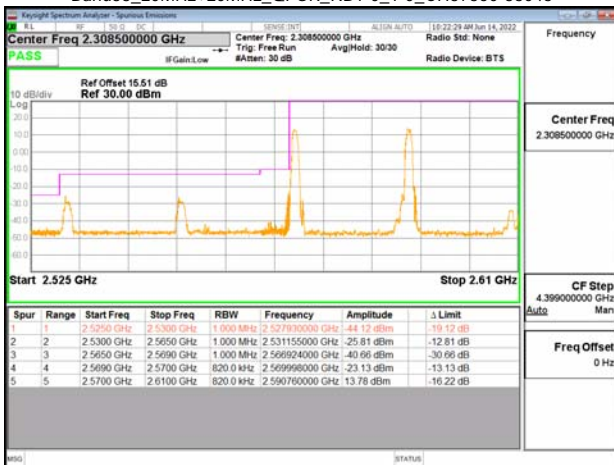
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Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37850-38048



Band38\_20MHz+20MHz\_QPSK\_RB1-0\_1-0\_CH37850-38048



Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37952-38150



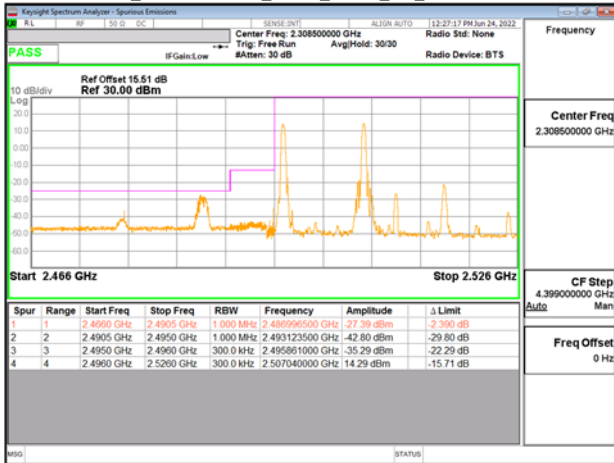
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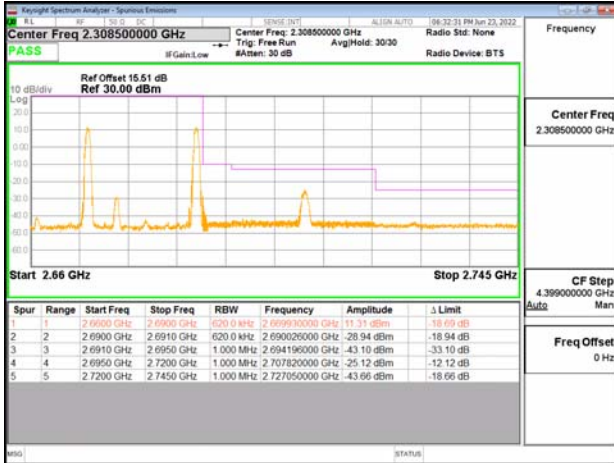
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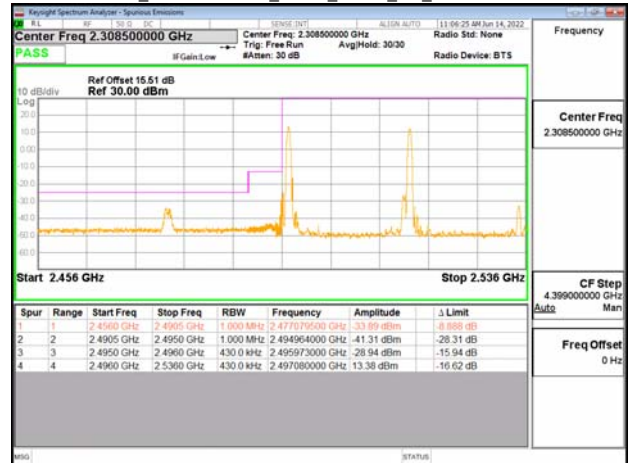
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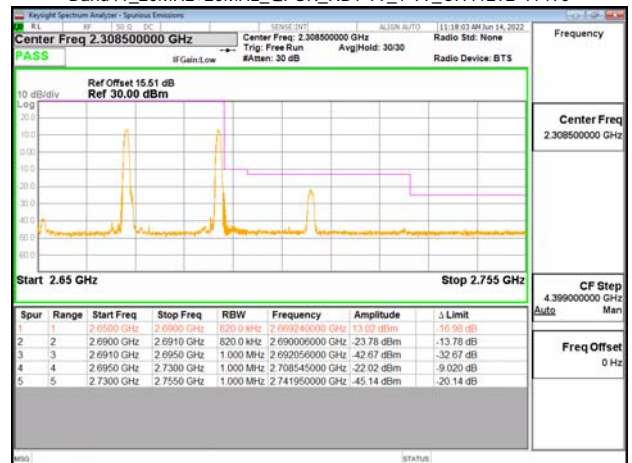
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Band41\_10MHz+20MHz\_QPSK\_RB50-0\_100-0\_CH39705-39849



Band41\_20MHz+20MHz\_QPSK\_RB1-99\_1-99\_CH41292-41490



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Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH39750-39948



Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH41292-41490



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## 9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.1 Standard Applicable

According to FCC §2.1053,  
**FCC §22.917(a), §27.53(h)**  
**RSS-132 §5.5, RSS-199 §4.5**

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.

#### **FCC §27.53(m) (4) (6)**

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

#### **ISED RSS-132 §5.5**

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10} p$  (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10} p$  (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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**RSS-199 §4.5**

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power,  $P$  (dBW), by at least  $43 + 10 \log_{10} p$  for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power,  $P$  (dBW), by at least:

$40 + 10 \log_{10} p$  from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$  between 5 MHz and  $X$  MHz from the channel edges, and

$55 + 10 \log_{10} p$  at  $X$  MHz and beyond from the channel edges

In addition, the attenuation shall not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz, and  $55 + 10 \log_{10} p$  at or below 2490.5 MHz.

In (a) and (b),  $p$  is the transmitter power measured in watts and  $X$  is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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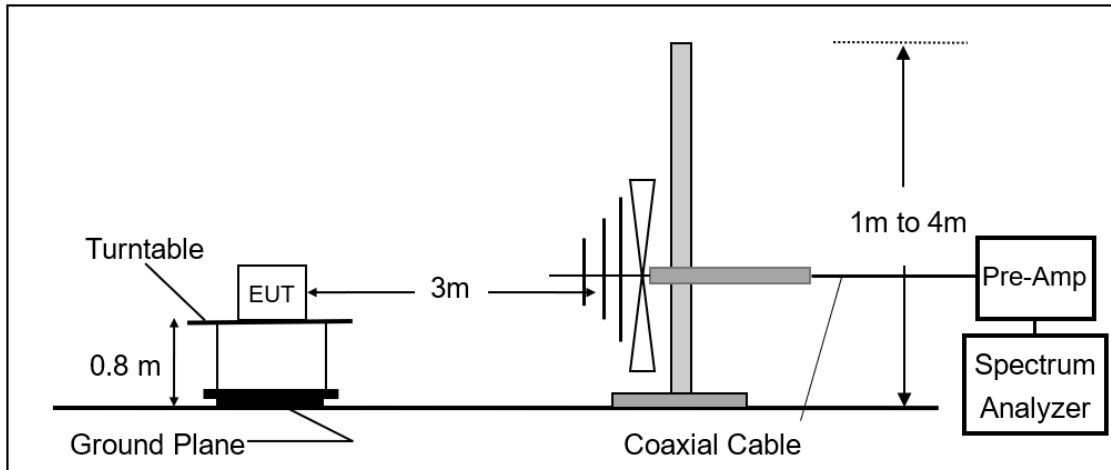
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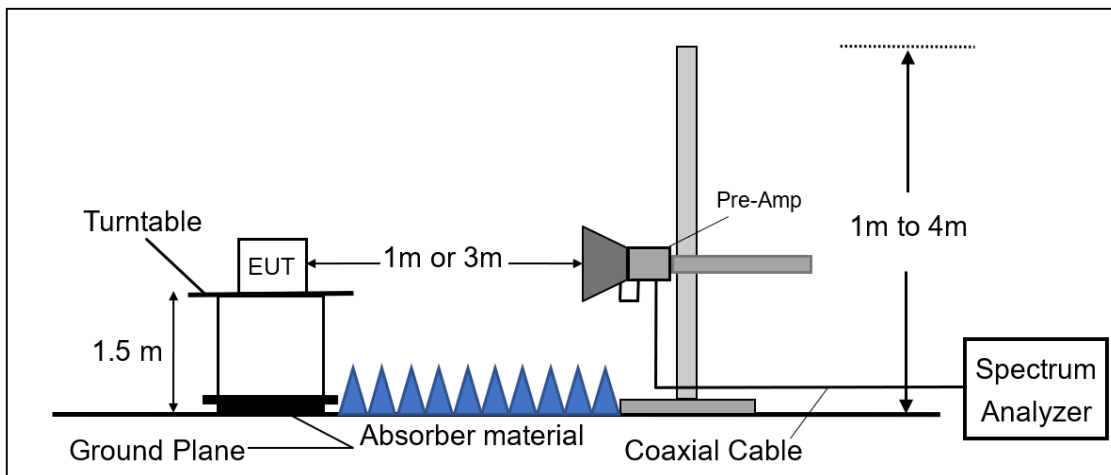


## 9.2 EUT Setup

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)

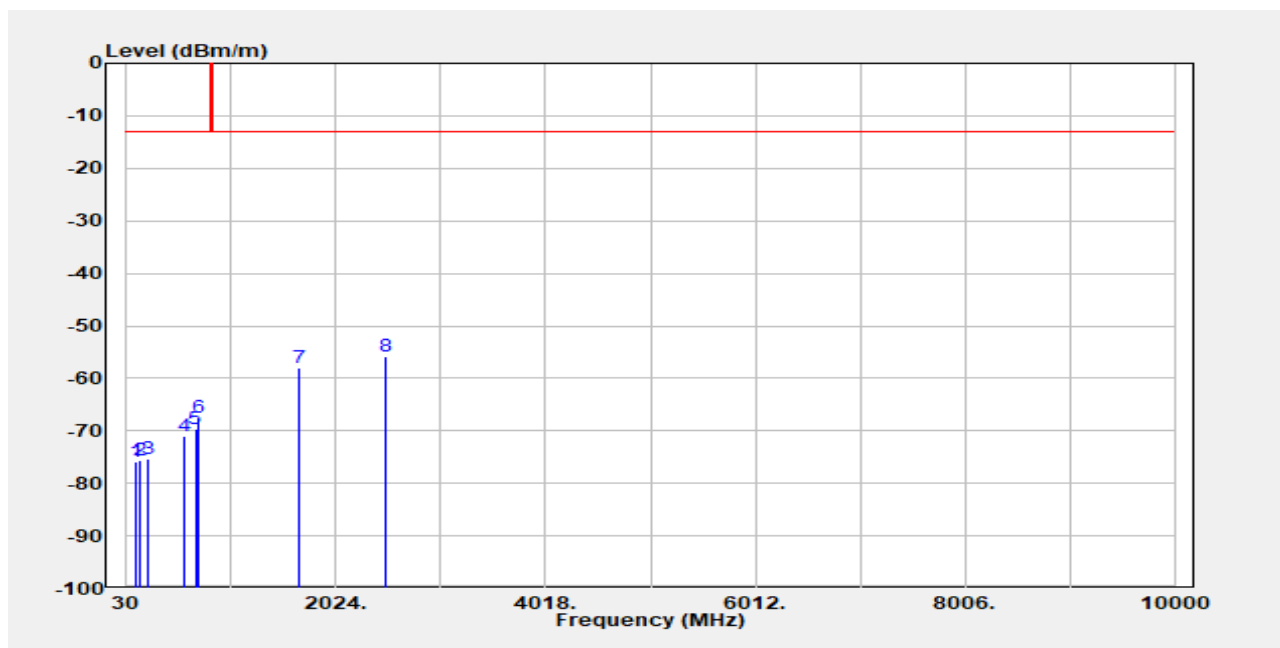
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9.4 Measurement Result:

Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :833.95 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-75.77	-75.70	0.99	-1.07	-13.00	-62.77
160.95	-75.53	-75.41	1.15	-1.27	-13.00	-62.53
238.55	-75.26	-80.11	6.49	-1.64	-13.00	-62.26
577.08	-70.95	-74.55	6.36	-2.77	-13.00	-57.95
683.78	-69.53	-72.89	6.37	-3.01	-13.00	-56.53
718.70	-67.44	-71.17	6.48	-2.75	-13.00	-54.44
1667.90	-57.94	-63.22	9.67	-4.40	-13.00	-44.94
2501.85	-55.80	-60.95	10.61	-5.45	-13.00	-42.80

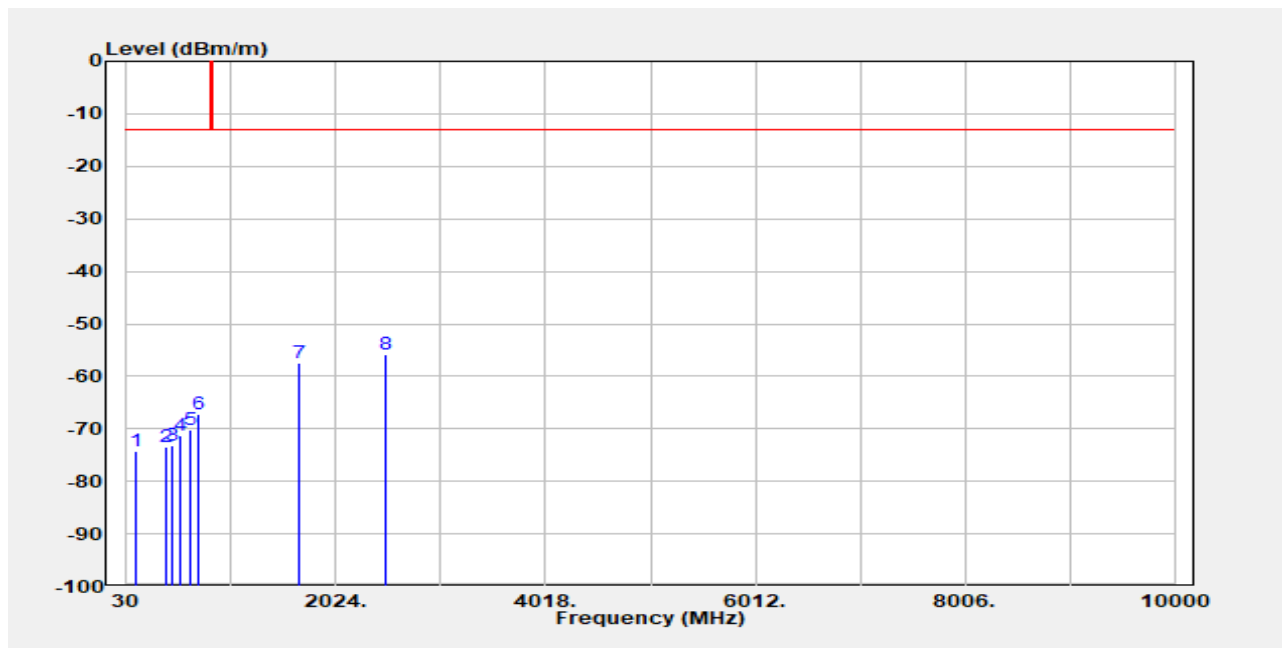
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :833.95 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
121.18	-74.16	-73.77	0.76	-1.15	-13.00	-61.16
407.33	-73.44	-78.12	6.68	-1.99	-13.00	-60.44
470.38	-73.24	-77.26	6.36	-2.35	-13.00	-60.24
548.95	-71.18	-75.41	6.63	-2.41	-13.00	-58.18
627.52	-70.32	-73.88	6.03	-2.47	-13.00	-57.32
720.64	-67.24	-71.07	6.53	-2.70	-13.00	-54.24
1667.90	-57.37	-62.65	9.67	-4.40	-13.00	-44.37
2501.85	-55.73	-60.89	10.61	-5.45	-13.00	-42.73

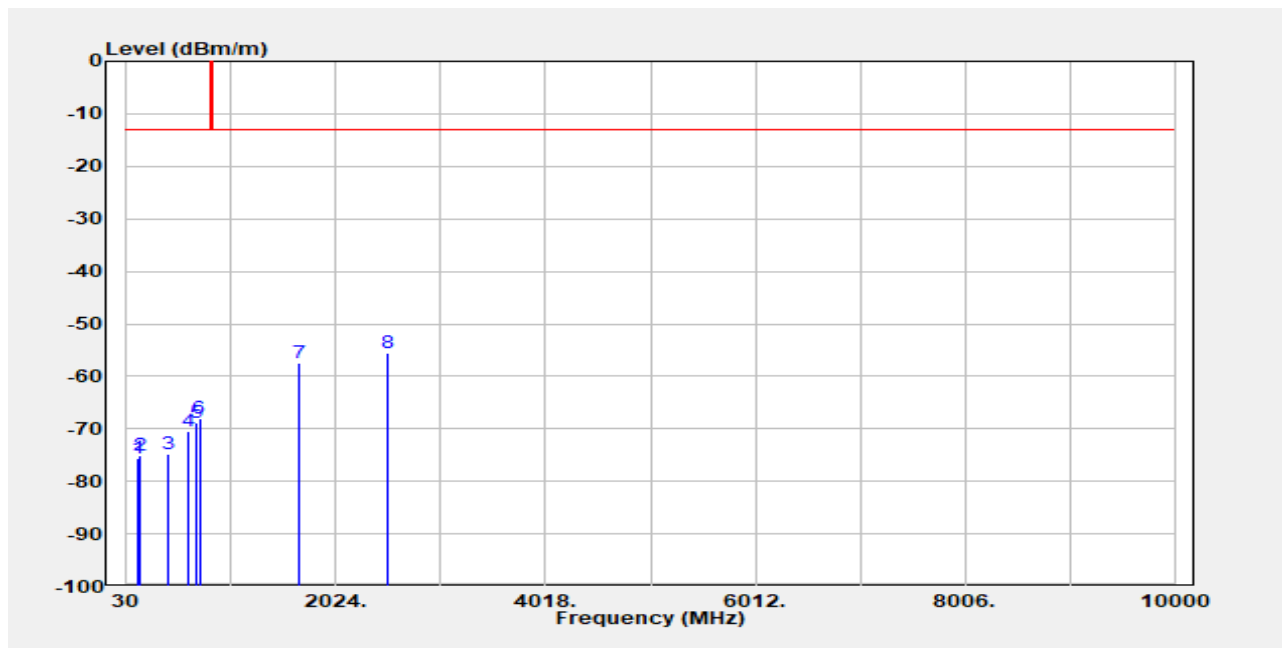
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :836.55 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-75.68	-75.04	0.54	-1.18	-13.00	-62.68
162.89	-75.08	-75.05	1.25	-1.28	-13.00	-62.08
428.67	-74.75	-79.16	6.45	-2.04	-13.00	-61.75
614.91	-70.34	-73.91	6.10	-2.53	-13.00	-57.34
688.63	-68.77	-71.98	6.31	-3.10	-13.00	-55.77
722.58	-68.01	-71.69	6.39	-2.71	-13.00	-55.01
1673.10	-57.54	-62.84	9.69	-4.40	-13.00	-44.54
2509.65	-55.49	-60.72	10.64	-5.41	-13.00	-42.49

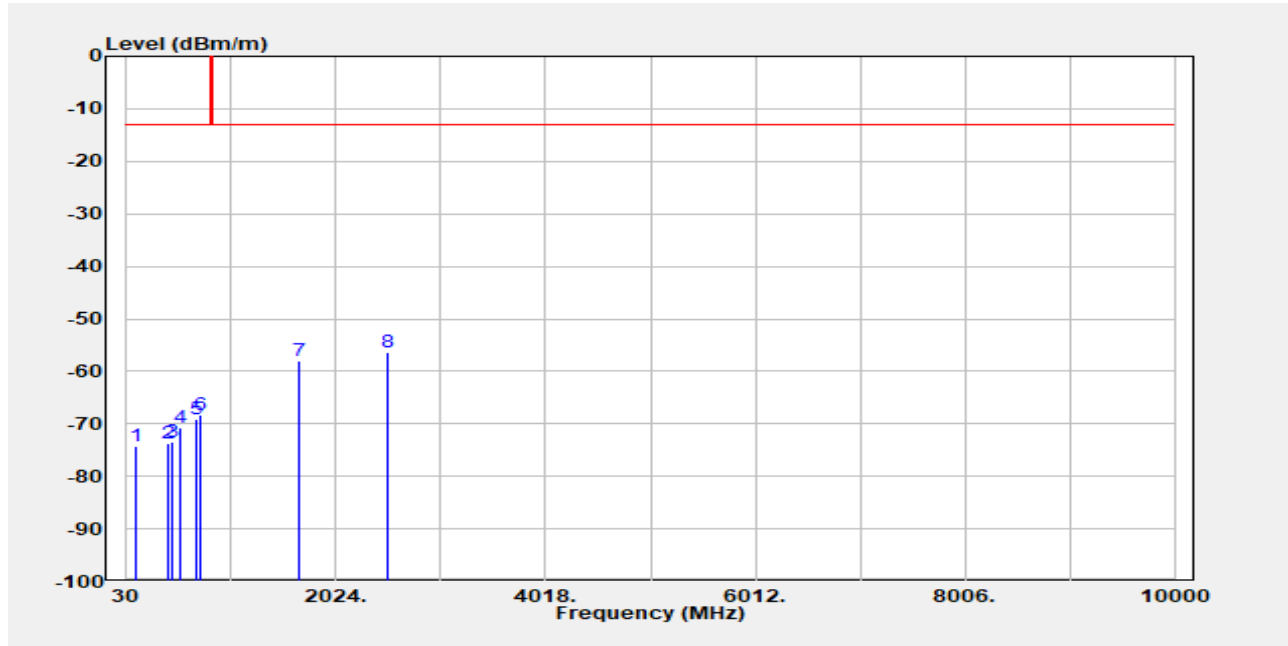
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :836.55 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-74.32	-73.87	0.71	-1.16	-13.00	-61.32
416.06	-73.61	-78.30	6.66	-1.97	-13.00	-60.61
470.38	-73.36	-77.38	6.36	-2.35	-13.00	-60.36
547.98	-70.60	-74.84	6.64	-2.40	-13.00	-57.60
688.63	-69.09	-72.30	6.31	-3.10	-13.00	-56.09
728.40	-68.29	-71.67	6.13	-2.76	-13.00	-55.29
1673.10	-58.00	-63.29	9.69	-4.40	-13.00	-45.00
2509.65	-56.25	-61.48	10.64	-5.41	-13.00	-43.25

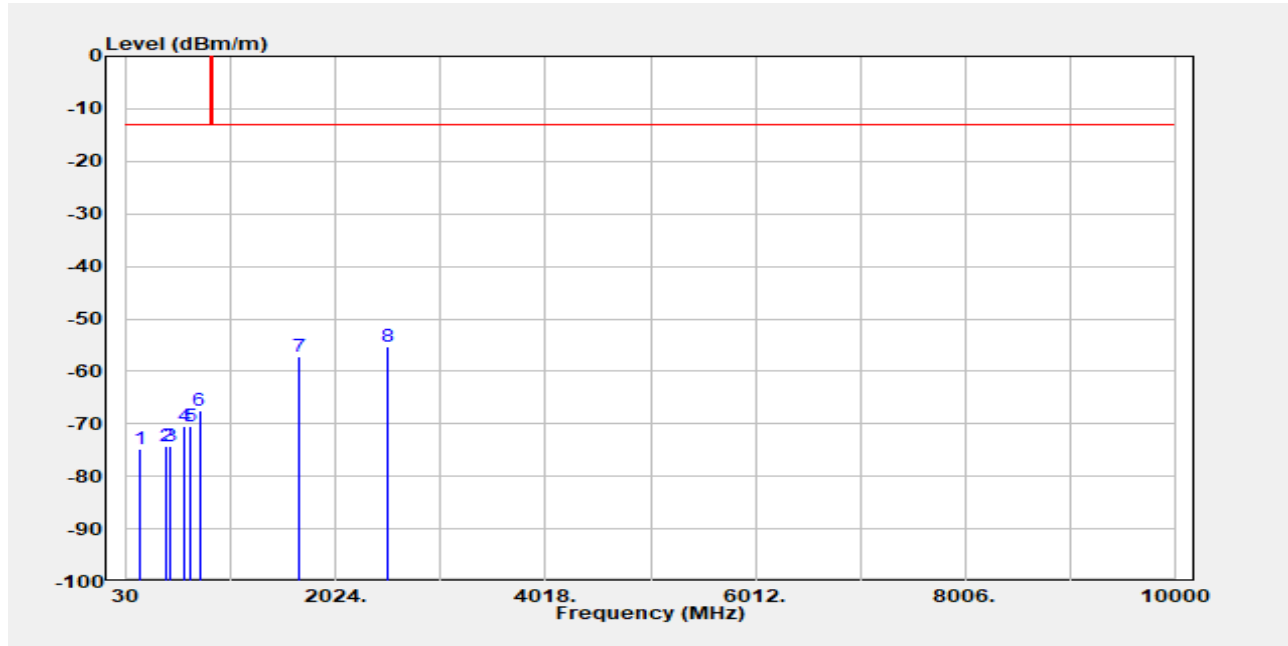
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :839.05 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	-74.74	-74.62	1.15	-1.27	-13.00	-61.74
413.15	-74.38	-79.12	6.68	-1.95	-13.00	-61.38
451.95	-74.19	-78.19	6.29	-2.28	-13.00	-61.19
576.11	-70.41	-74.04	6.39	-2.76	-13.00	-57.41
638.19	-70.35	-74.08	6.02	-2.29	-13.00	-57.35
722.58	-67.51	-71.19	6.39	-2.71	-13.00	-54.51
1678.10	-57.14	-62.46	9.71	-4.40	-13.00	-44.14
2517.15	-55.23	-60.53	10.67	-5.37	-13.00	-42.23

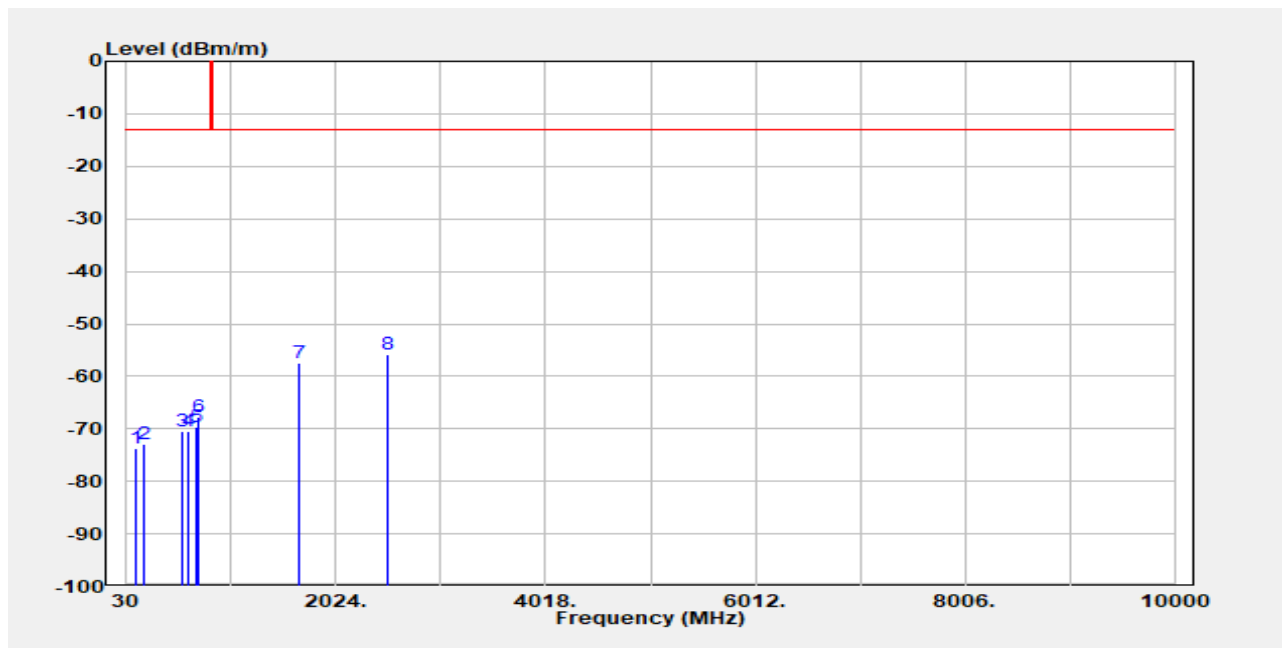
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 5C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :839.05 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-73.82	-73.26	0.60	-1.16	-13.00	-60.82
196.84	-73.03	-77.80	6.22	-1.46	-13.00	-60.03
550.89	-70.59	-74.78	6.63	-2.44	-13.00	-57.59
609.09	-70.50	-73.91	6.04	-2.63	-13.00	-57.50
684.75	-69.63	-72.95	6.34	-3.03	-13.00	-56.63
720.64	-67.86	-71.69	6.53	-2.70	-13.00	-54.86
1678.10	-57.44	-62.75	9.71	-4.40	-13.00	-44.44
2517.15	-55.77	-61.07	10.67	-5.37	-13.00	-42.77

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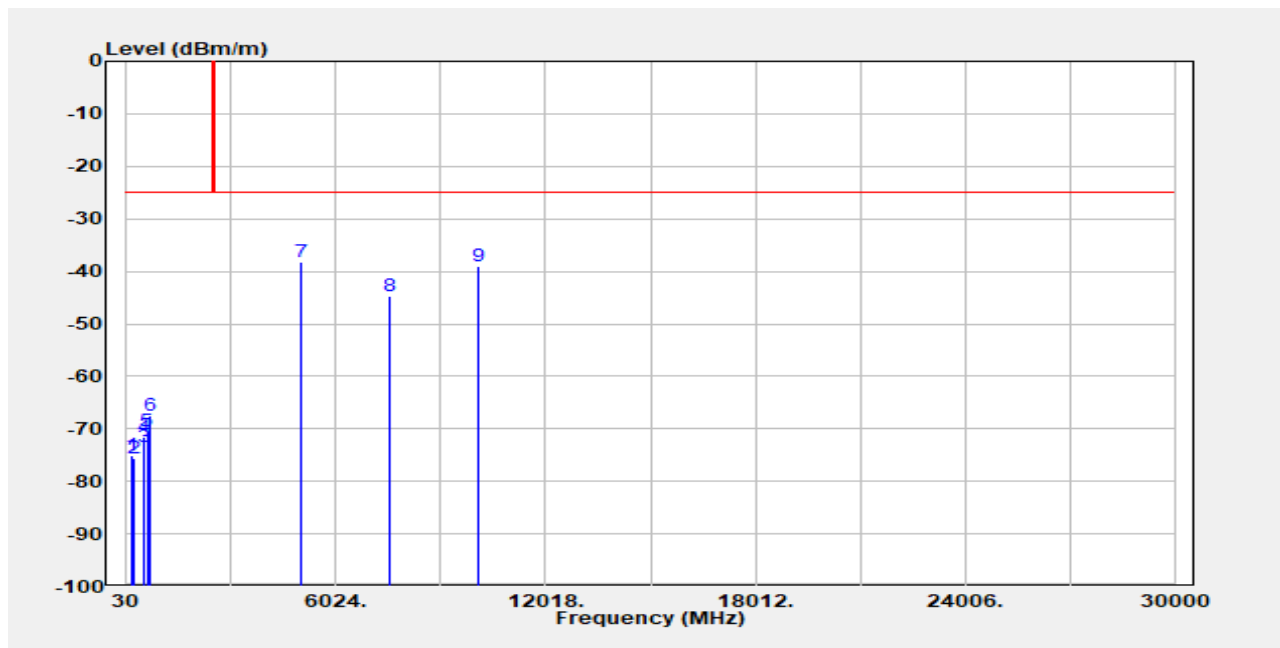
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2518.55 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
155.13	-75.11	-74.63	0.74	-1.22	-25.00	-50.11
237.58	-75.71	-80.61	6.53	-1.63	-25.00	-50.71
517.91	-73.33	-77.52	6.45	-2.26	-25.00	-48.33
547.01	-71.68	-75.93	6.64	-2.39	-25.00	-46.68
612.97	-70.42	-73.92	6.07	-2.57	-25.00	-45.42
711.91	-67.49	-70.62	6.17	-3.04	-25.00	-42.49
5037.10	-38.33	-42.95	12.35	-7.73	-25.00	-13.33
7555.65	-44.63	-46.02	11.21	-9.82	-25.00	-19.63
10074.20	-38.91	-39.22	11.87	-11.57	-25.00	-13.91

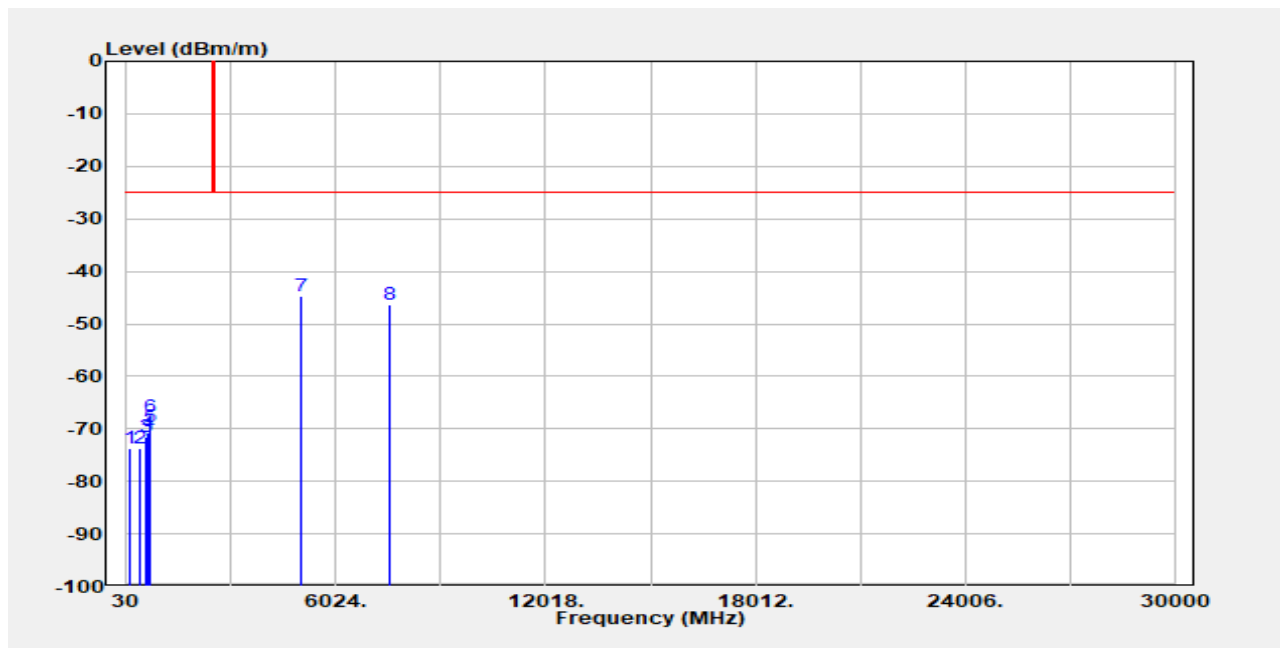
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2518.55 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
126.03	-73.80	-73.26	0.63	-1.17	-25.00	-48.80
398.60	-73.67	-78.12	6.63	-2.18	-25.00	-48.67
563.50	-71.49	-75.30	6.50	-2.69	-25.00	-46.49
624.61	-70.73	-74.32	6.04	-2.45	-25.00	-45.73
681.84	-69.54	-72.99	6.42	-2.97	-25.00	-44.54
725.49	-67.79	-71.27	6.22	-2.74	-25.00	-42.79
5037.10	-44.65	-49.27	12.35	-7.73	-25.00	-19.65
7555.65	-46.33	-47.73	11.21	-9.82	-25.00	-21.33

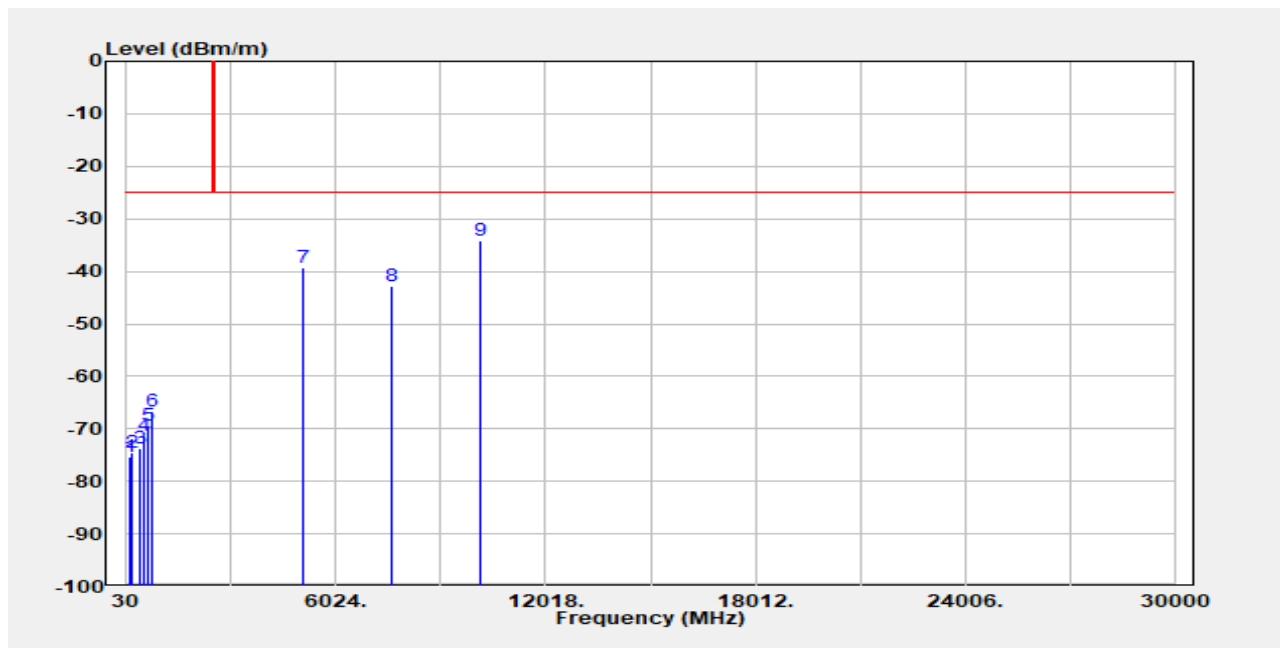
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2536.15 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-75.43	-75.29	0.94	-1.08	-25.00	-50.43
159.98	-74.44	-74.17	1.00	-1.27	-25.00	-49.44
413.15	-73.71	-78.45	6.68	-1.95	-25.00	-48.71
540.22	-71.26	-75.49	6.57	-2.34	-25.00	-46.26
628.49	-69.39	-72.94	6.02	-2.47	-25.00	-44.39
730.34	-66.79	-70.11	6.09	-2.76	-25.00	-41.79
5072.30	-39.21	-43.19	12.21	-8.23	-25.00	-14.21
7608.45	-42.72	-44.33	11.33	-9.73	-25.00	-17.72
10144.60	-34.17	-34.79	11.77	-11.14	-25.00	-9.17

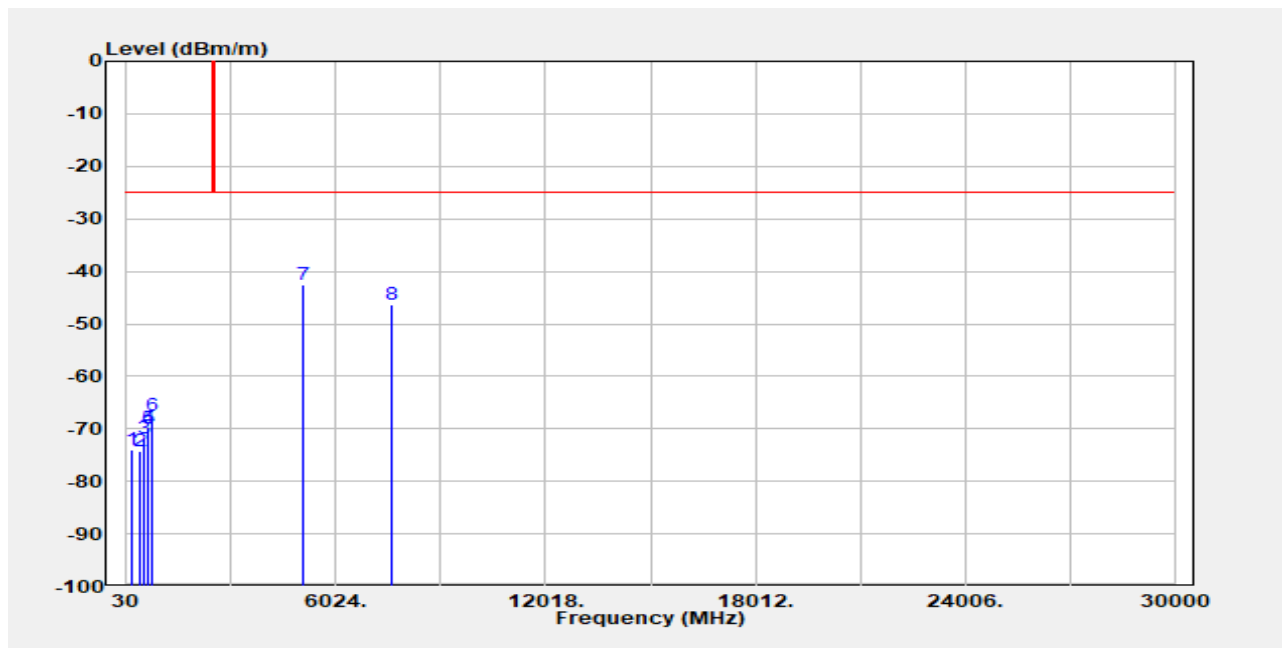
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2536.15 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
196.84	-74.07	-78.84	6.22	-1.46	-25.00	-49.07
396.66	-74.20	-78.64	6.59	-2.15	-25.00	-49.20
541.19	-71.92	-76.16	6.59	-2.35	-25.00	-46.92
632.37	-69.93	-73.50	6.00	-2.43	-25.00	-44.93
661.47	-69.81	-73.65	6.37	-2.54	-25.00	-44.81
730.34	-67.58	-70.91	6.09	-2.76	-25.00	-42.58
5072.30	-42.44	15.51	12.21	-8.23	-25.00	-17.44
7608.45	-46.39	23.31	11.33	-9.73	-25.00	-21.39

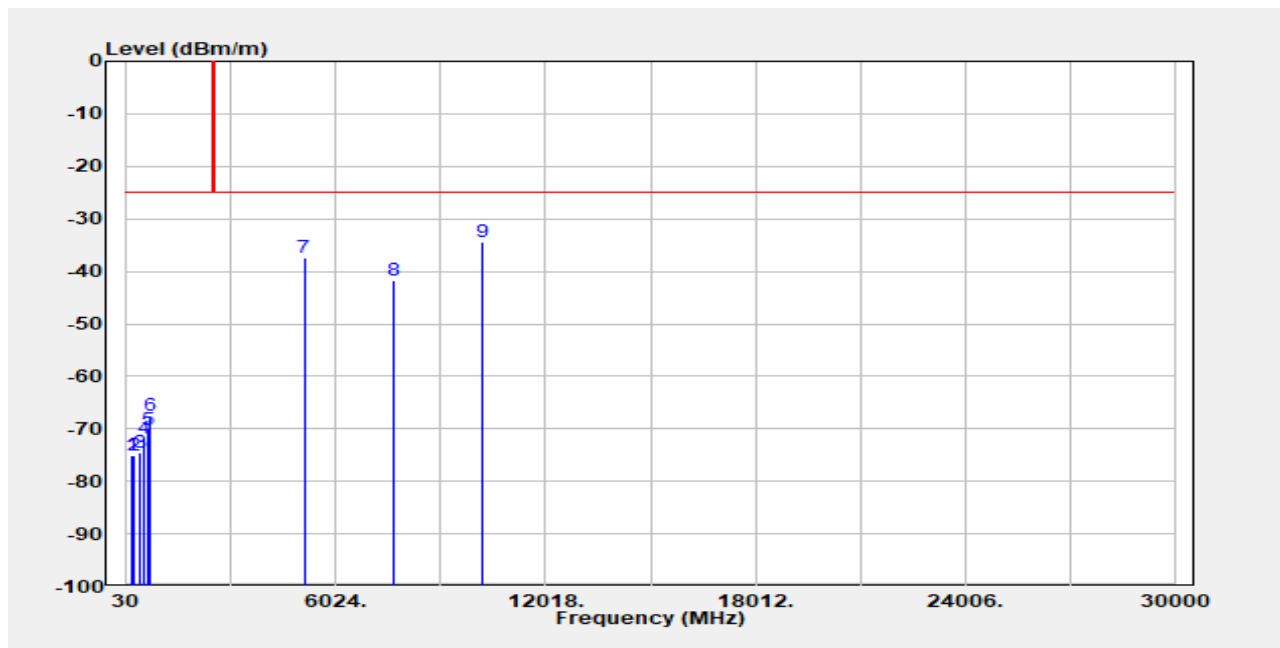
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2553.65 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
161.92	-75.06	-74.90	1.12	-1.28	-25.00	-50.06
240.49	-75.05	-79.83	6.43	-1.65	-25.00	-50.05
406.36	-74.46	-79.11	6.67	-2.02	-25.00	-49.46
550.89	-71.88	-76.07	6.63	-2.44	-25.00	-46.88
628.49	-70.22	-73.77	6.02	-2.47	-25.00	-45.22
721.61	-67.35	-71.11	6.46	-2.71	-25.00	-42.35
5107.30	-37.47	-41.89	12.11	-7.69	-25.00	-12.47
7660.95	-41.63	-43.34	11.52	-9.82	-25.00	-16.63
10214.60	-34.37	-34.45	11.59	-11.51	-25.00	-9.37

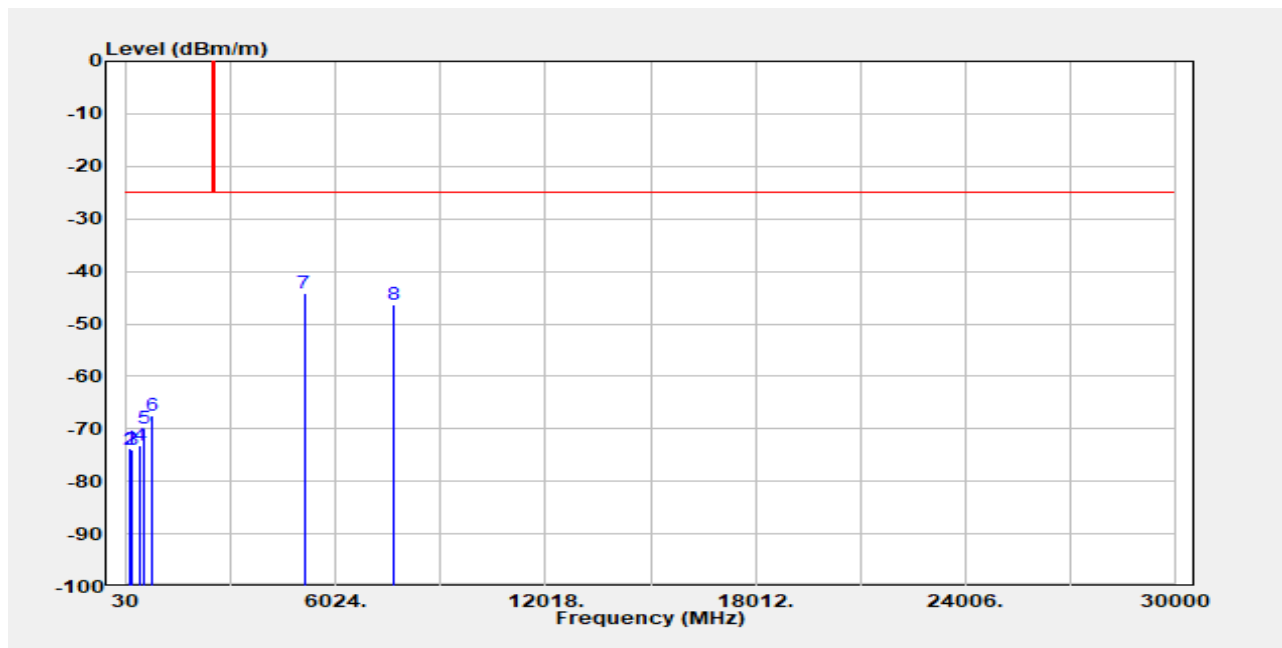
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 7C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2553.65 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-73.65	-73.14	0.66	-1.16	-25.00	-48.65
130.88	-73.93	-73.21	0.47	-1.19	-25.00	-48.93
196.84	-73.96	-78.72	6.22	-1.46	-25.00	-48.96
418.97	-73.20	-77.81	6.61	-2.00	-25.00	-48.20
549.92	-70.01	-74.23	6.63	-2.41	-25.00	-45.01
730.34	-67.55	-70.87	6.09	-2.76	-25.00	-42.55
5107.30	-44.05	-48.47	12.11	-7.69	-25.00	-19.05
7660.95	-46.29	-48.00	11.52	-9.82	-25.00	-21.29

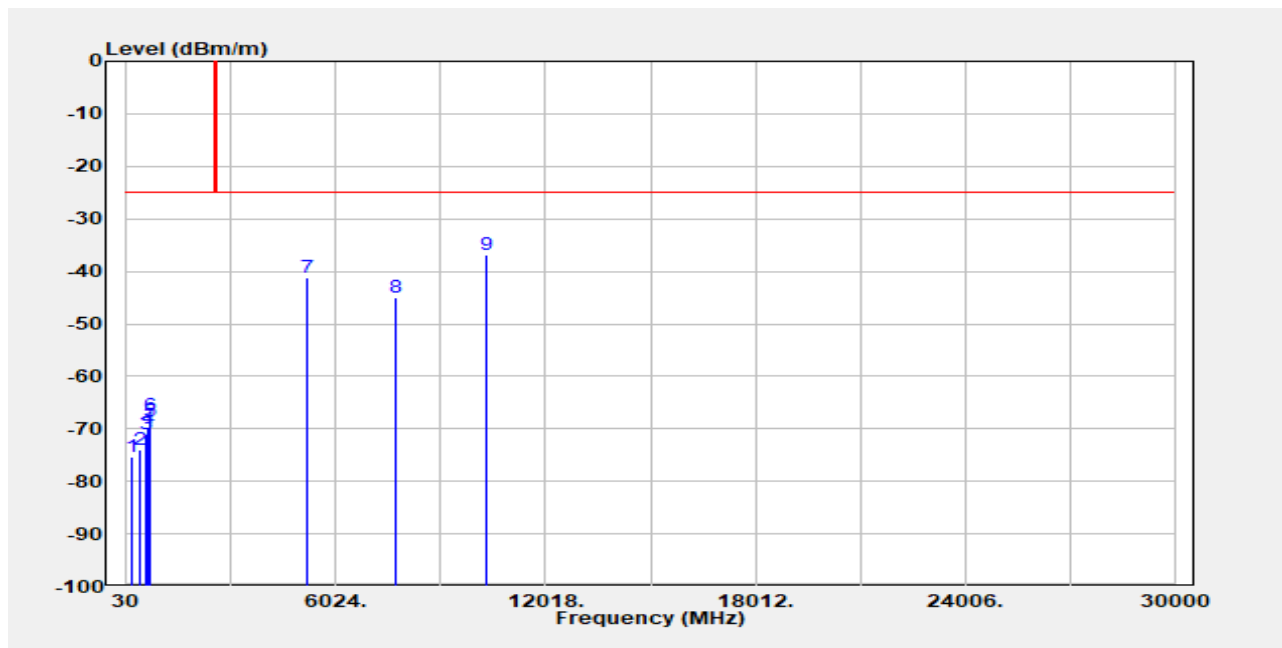
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2585 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.98	-75.33	-75.07	1.00	-1.27	-25.00	-50.33
412.18	-74.03	-78.77	6.68	-1.94	-25.00	-49.03
576.11	-70.98	-74.62	6.39	-2.76	-25.00	-45.98
635.28	-70.04	-73.66	5.98	-2.36	-25.00	-45.04
703.18	-68.67	-71.98	6.26	-2.96	-25.00	-43.67
722.58	-67.38	-71.06	6.39	-2.71	-25.00	-42.38
5170.00	-41.32	-45.63	12.36	-8.05	-25.00	-16.32
7755.00	-45.03	-46.85	11.60	-9.78	-25.00	-20.03
10340.00	-36.95	-36.58	11.42	-11.79	-25.00	-11.95

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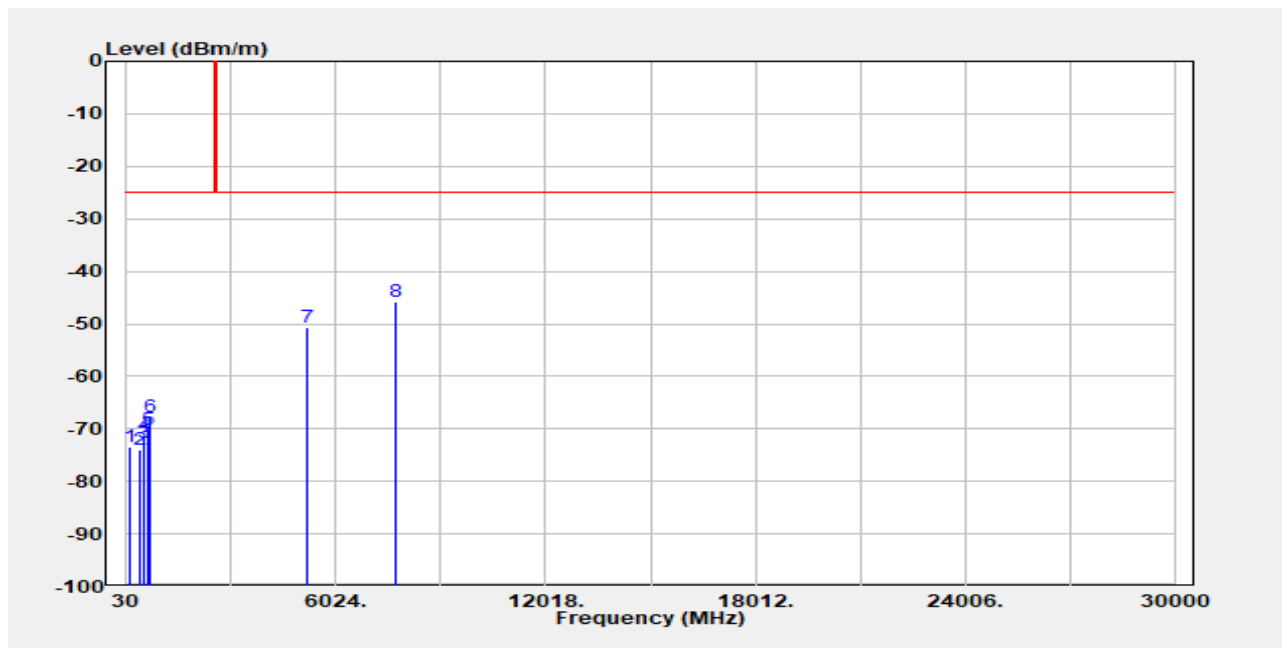
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2585 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-73.56	-72.84	0.47	-1.19	-25.00	-48.56
400.54	-73.96	-78.45	6.67	-2.18	-25.00	-48.96
515.97	-72.54	-76.77	6.46	-2.22	-25.00	-47.54
551.86	-71.25	-75.41	6.62	-2.47	-25.00	-46.25
624.61	-70.09	-73.68	6.04	-2.45	-25.00	-45.09
721.61	-67.72	-71.47	6.46	-2.71	-25.00	-42.72
5170.00	-50.73	-55.03	12.36	-8.05	-25.00	-25.73
7755.00	-45.92	-47.74	11.60	-9.78	-25.00	-20.92

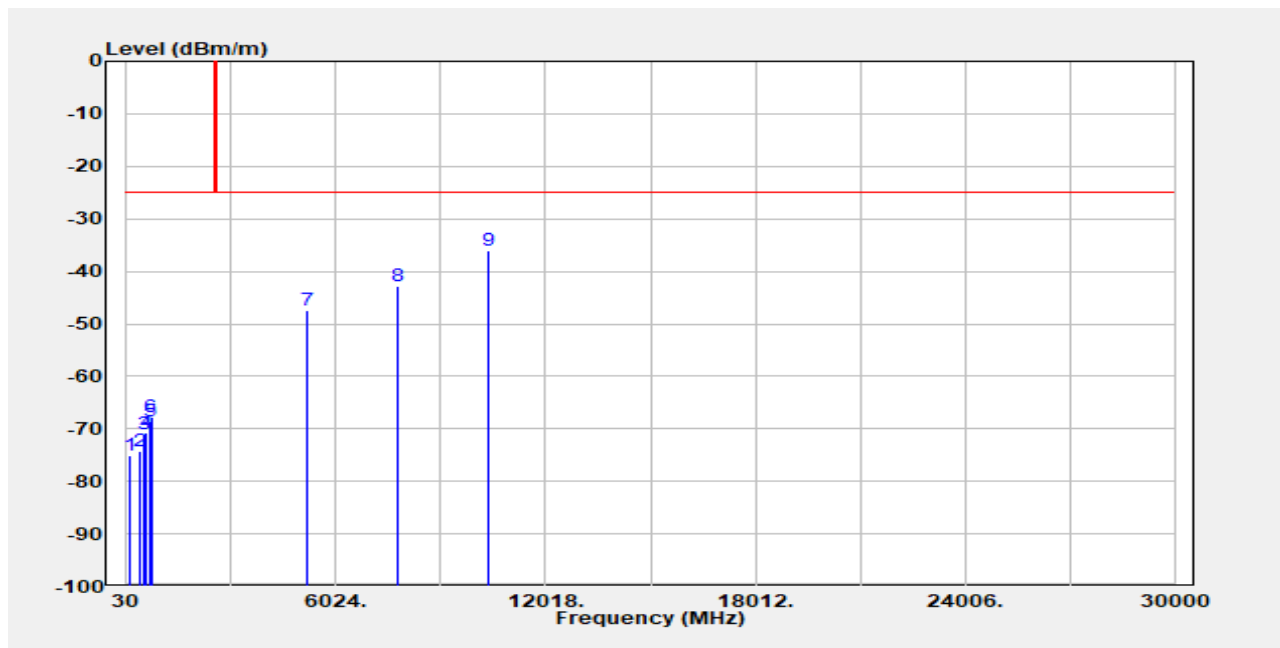
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2595 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-75.06	-75.17	1.17	-1.06	-25.00	-50.06
434.49	-74.31	-78.56	6.39	-2.14	-25.00	-49.31
549.92	-70.94	-75.15	6.63	-2.41	-25.00	-45.94
576.11	-70.67	-74.30	6.39	-2.76	-25.00	-45.67
692.51	-68.63	-71.84	6.28	-3.07	-25.00	-43.63
729.37	-67.77	-71.11	6.11	-2.77	-25.00	-42.77
5190.00	-47.31	-51.77	12.52	-8.06	-25.00	-22.31
7785.00	-42.80	-44.80	11.60	-9.60	-25.00	-17.80
10380.00	-36.15	-36.36	11.34	-11.13	-25.00	-11.15

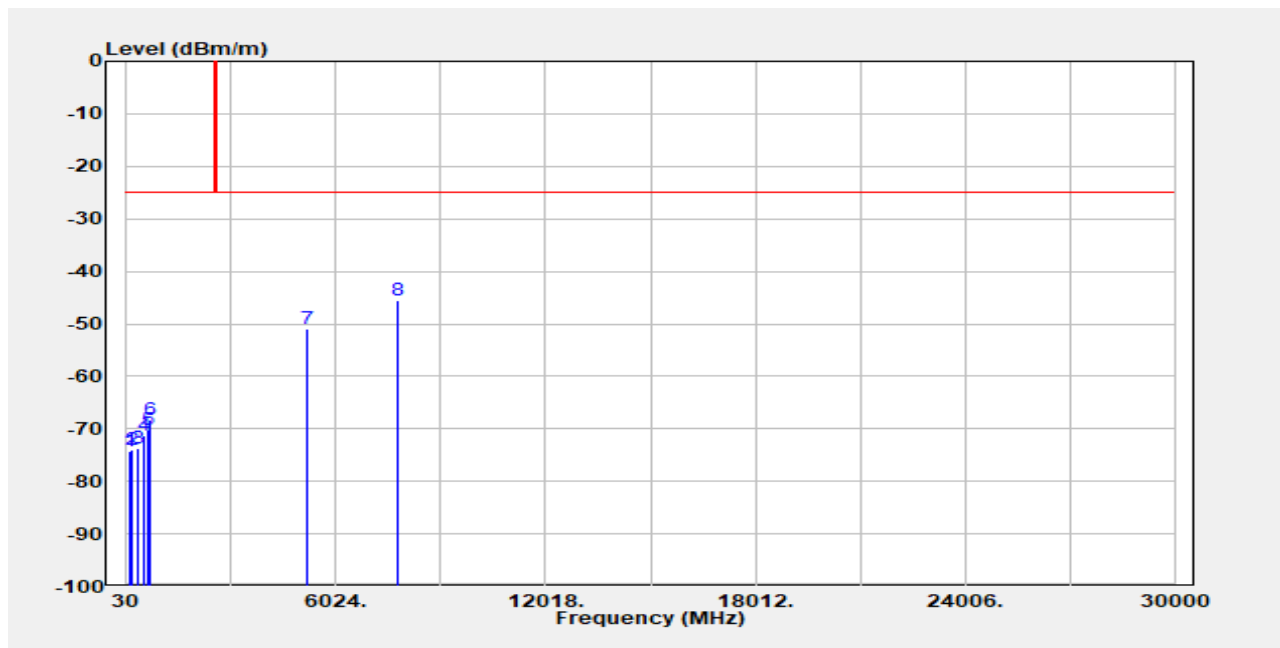
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2595 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-74.19	-74.92	1.75	-1.01	-25.00	-49.19
204.60	-73.98	-79.14	6.65	-1.48	-25.00	-48.98
359.80	-73.59	-78.34	6.75	-1.99	-25.00	-48.59
546.04	-71.18	-75.44	6.65	-2.38	-25.00	-46.18
622.67	-70.13	-73.75	6.05	-2.44	-25.00	-45.13
720.64	-68.40	-72.22	6.53	-2.70	-25.00	-43.40
5190.00	-50.85	-55.31	12.52	-8.06	-25.00	-25.85
7785.00	-45.50	-47.50	11.60	-9.60	-25.00	-20.50

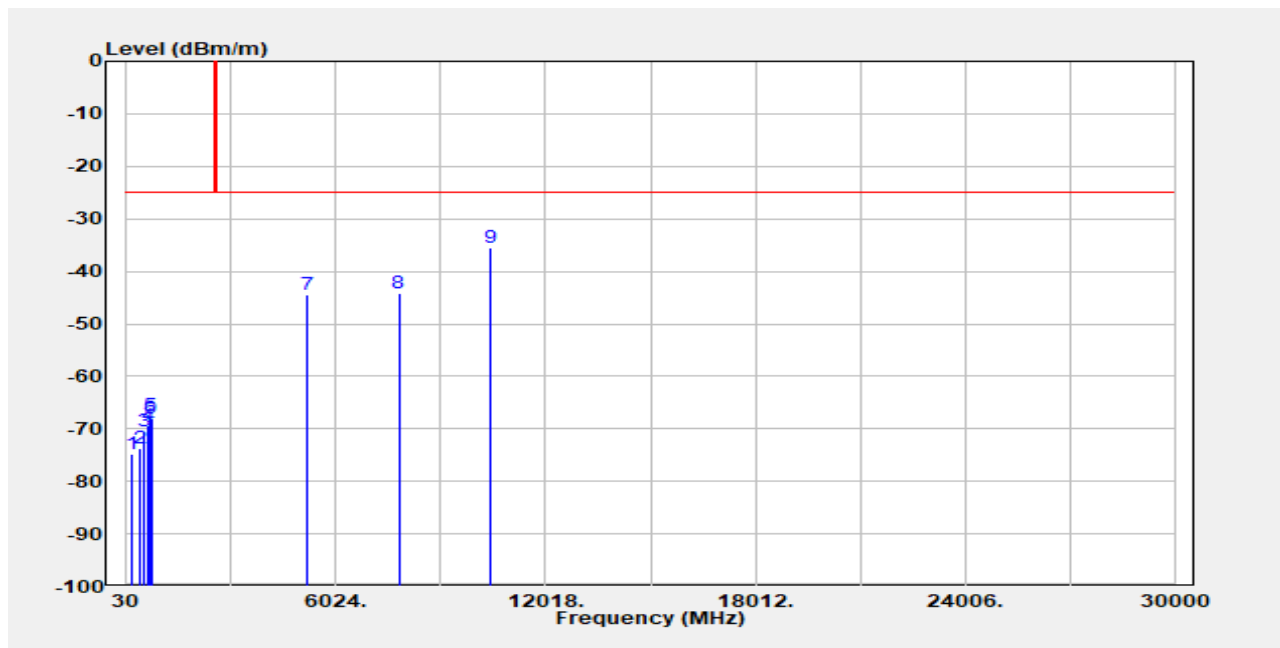
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2605 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
157.07	-74.75	-74.36	0.85	-1.24	-25.00	-49.75
410.24	-73.79	-78.55	6.68	-1.92	-25.00	-48.79
543.13	-70.56	-74.82	6.62	-2.36	-25.00	-45.56
659.53	-69.50	-73.45	6.39	-2.44	-25.00	-44.50
703.18	-67.39	-70.69	6.26	-2.96	-25.00	-42.39
729.37	-67.96	-71.30	6.11	-2.77	-25.00	-42.96
5210.00	-44.51	-49.19	12.66	-7.98	-25.00	-19.51
7815.00	-44.15	-45.44	11.54	-10.25	-25.00	-19.15
10420.00	-35.52	-35.23	11.28	-11.57	-25.00	-10.52

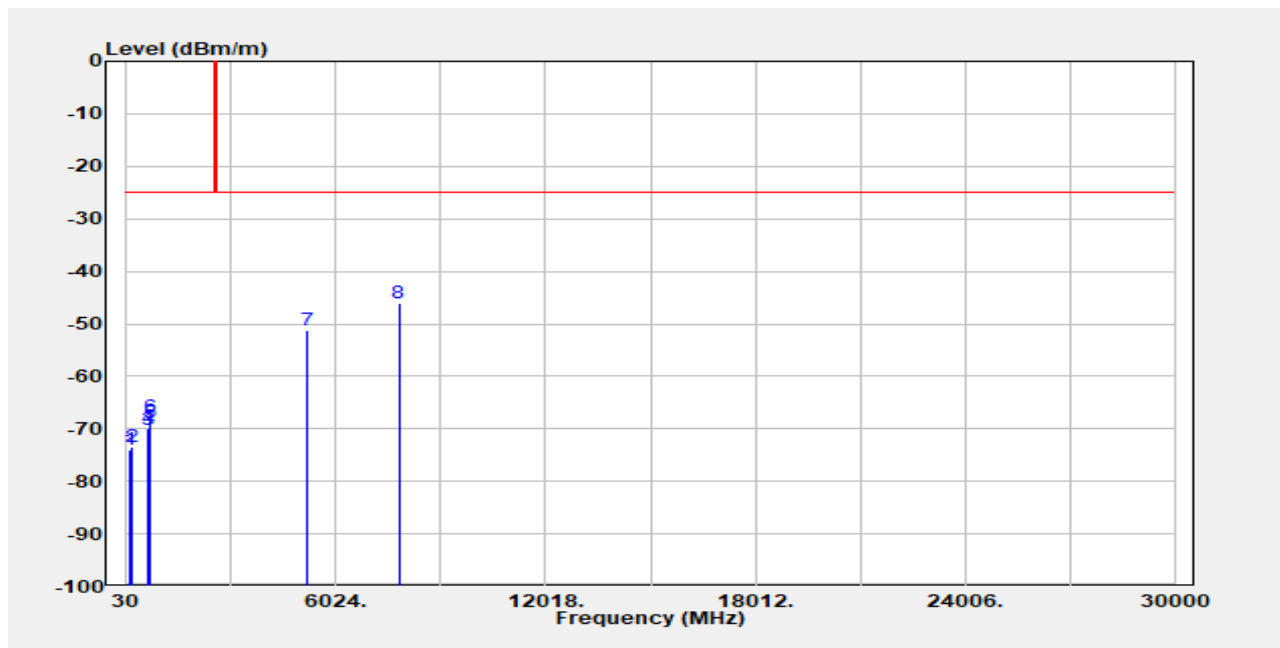
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 38C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2605 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-73.87	-73.23	0.54	-1.18	-25.00	-48.87
200.72	-73.36	-78.46	6.56	-1.47	-25.00	-48.36
626.55	-70.14	-73.71	6.03	-2.46	-25.00	-45.14
662.44	-69.85	-73.58	6.35	-2.62	-25.00	-44.85
705.12	-68.80	-72.08	6.28	-3.01	-25.00	-43.80
724.52	-67.82	-71.35	6.26	-2.73	-25.00	-42.82
5210.00	-51.31	-55.99	12.66	-7.98	-25.00	-26.31
7815.00	-46.13	-47.42	11.54	-10.25	-25.00	-21.13

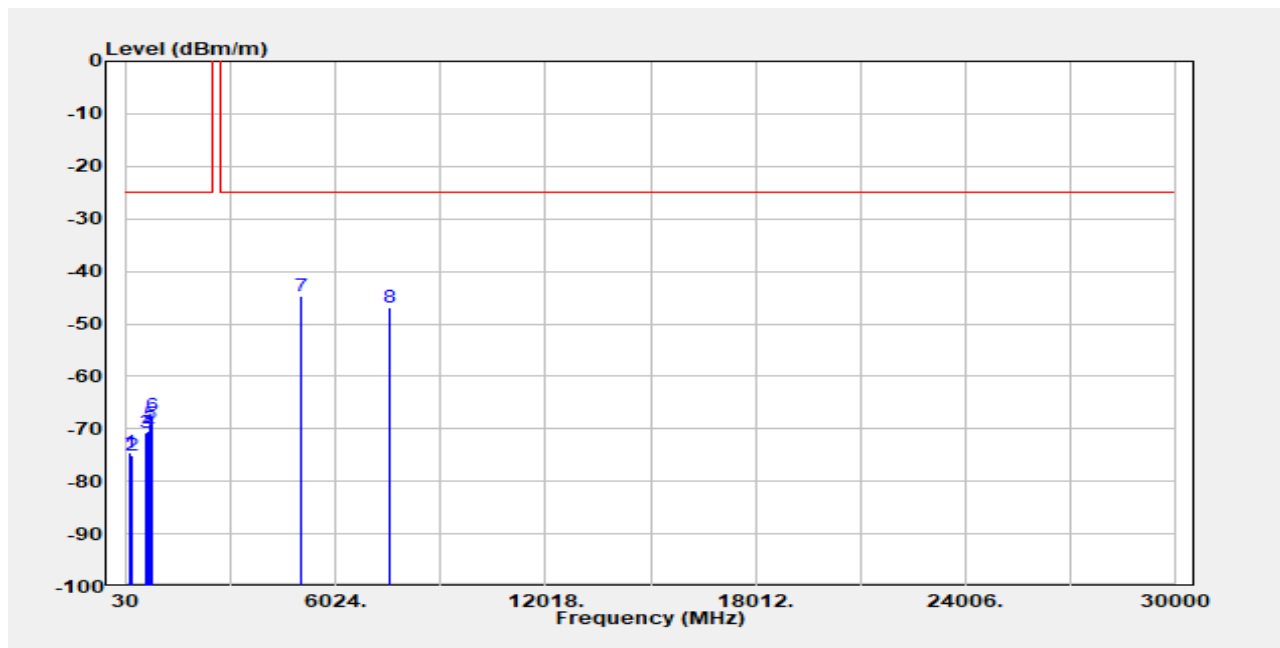
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2511 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-74.59	-74.70	1.17	-1.06	-25.00	-49.59
161.92	-75.00	-74.84	1.12	-1.28	-25.00	-50.00
583.87	-70.65	-74.11	6.27	-2.81	-25.00	-45.65
642.07	-70.40	-74.10	6.03	-2.33	-25.00	-45.40
696.39	-69.13	-72.42	6.25	-2.97	-25.00	-44.13
730.34	-67.56	-70.88	6.09	-2.76	-25.00	-42.56
5022.00	-44.69	-49.30	12.41	-7.81	-25.00	-19.69
7533.00	-47.01	-48.49	11.17	-9.69	-25.00	-22.01

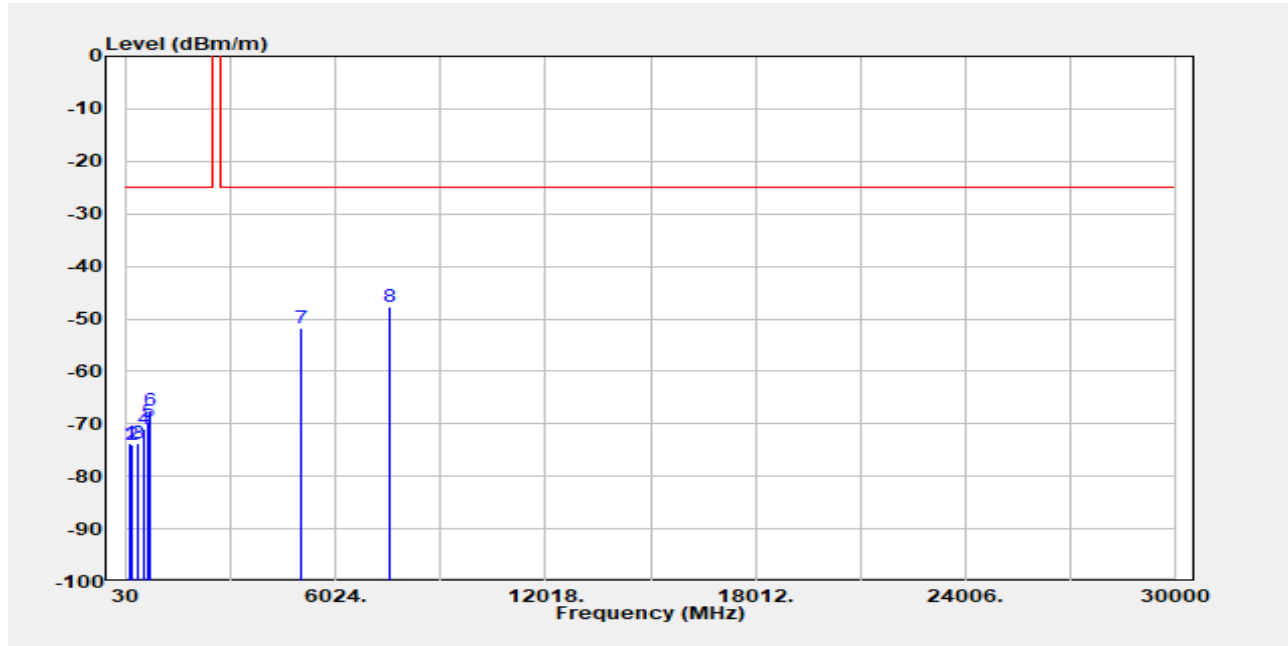
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2511 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-73.61	-72.89	0.47	-1.19	-25.00	-48.61
200.72	-74.04	-79.14	6.56	-1.47	-25.00	-49.04
359.80	-73.62	-78.38	6.75	-1.99	-25.00	-48.62
547.98	-71.04	-75.28	6.64	-2.40	-25.00	-46.04
634.31	-69.71	-73.31	5.98	-2.38	-25.00	-44.71
719.67	-67.59	-71.43	6.55	-2.71	-25.00	-42.59
5022.00	-51.86	-56.46	12.41	-7.81	-25.00	-26.86
7533.00	-47.57	-49.05	11.17	-9.69	-25.00	-22.57

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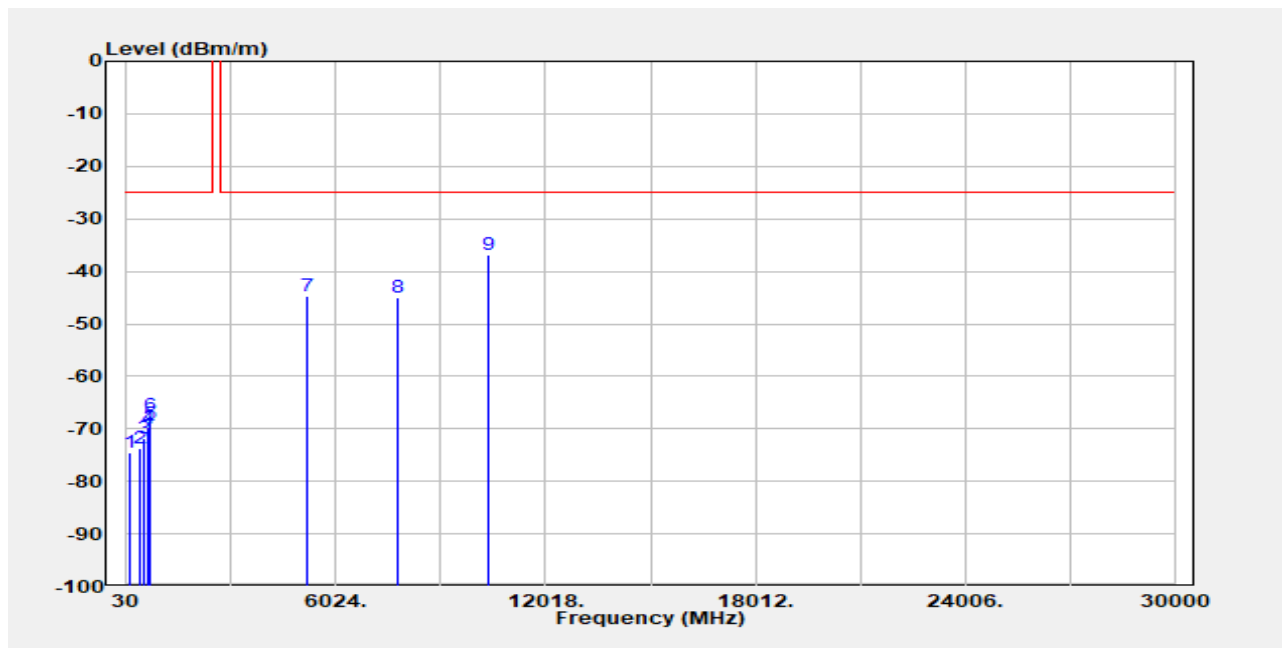
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2593 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
145.43	-74.62	-74.06	0.68	-1.24	-25.00	-49.62
426.73	-73.81	-78.30	6.52	-2.03	-25.00	-48.81
548.95	-71.79	-76.02	6.63	-2.41	-25.00	-46.79
632.37	-69.79	-73.36	6.00	-2.43	-25.00	-44.79
691.54	-69.05	-72.25	6.29	-3.09	-25.00	-44.05
722.58	-67.35	-71.03	6.39	-2.71	-25.00	-42.35
5186.00	-44.69	-49.09	12.49	-8.08	-25.00	-19.69
7779.00	-45.08	-47.18	11.60	-9.50	-25.00	-20.08
10372.00	-36.78	-36.74	11.36	-11.40	-25.00	-11.78

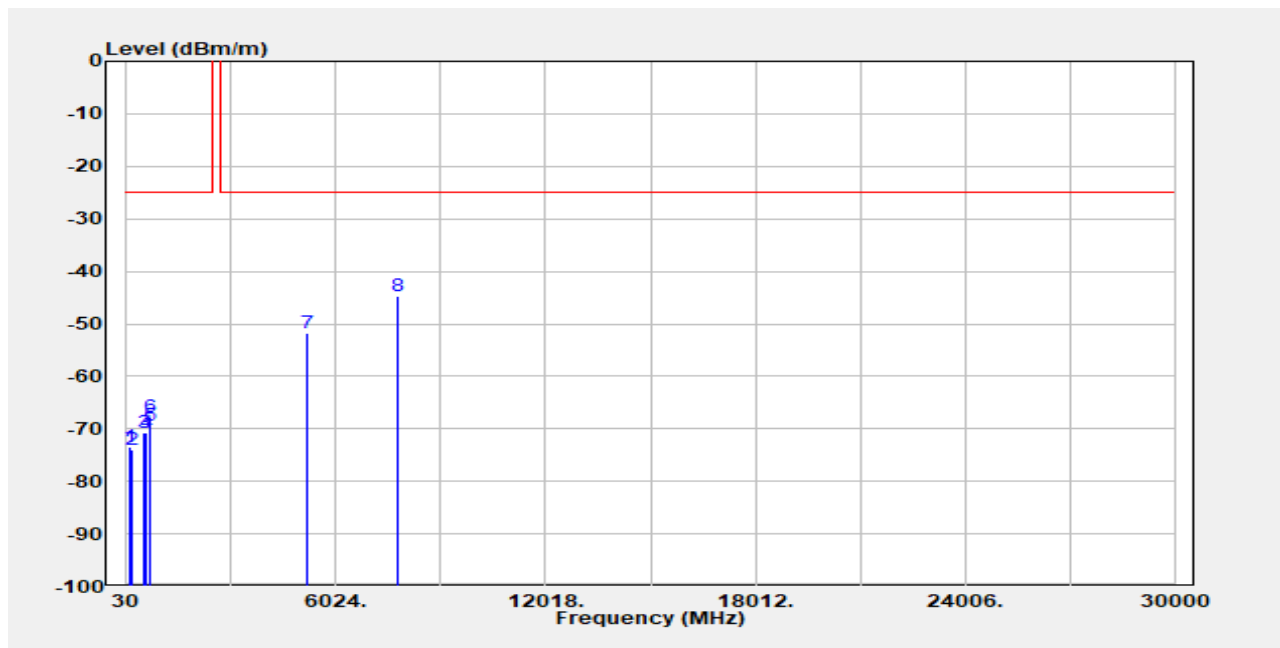
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2593 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-73.53	-72.92	0.57	-1.17	-25.00	-48.53
198.78	-73.90	-78.83	6.39	-1.46	-25.00	-48.90
537.31	-70.83	-75.15	6.58	-2.27	-25.00	-45.83
605.21	-70.61	-74.03	6.06	-2.64	-25.00	-45.61
684.75	-69.48	-72.79	6.34	-3.03	-25.00	-44.48
709.00	-67.87	-70.94	6.18	-3.10	-25.00	-42.87
5186.00	-51.76	-56.17	12.49	-8.08	-25.00	-26.76
7779.00	-44.81	-46.91	11.60	-9.50	-25.00	-19.81

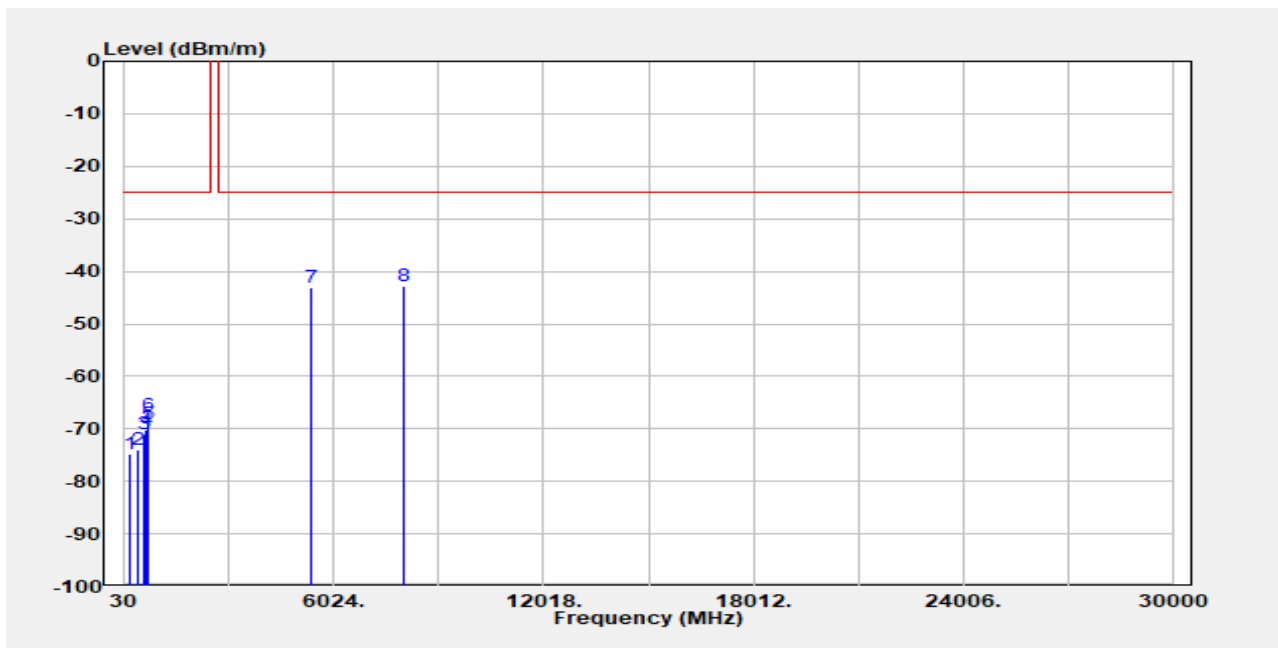
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2675 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-74.89	-74.46	0.79	-1.23	-25.00	-49.89
432.55	-73.87	-78.17	6.39	-2.10	-25.00	-48.87
584.84	-70.90	-74.36	6.27	-2.81	-25.00	-45.90
629.46	-70.28	-73.82	6.01	-2.48	-25.00	-45.28
685.72	-68.99	-72.28	6.33	-3.05	-25.00	-43.99
719.67	-67.46	-71.30	6.55	-2.71	-25.00	-42.46
5350.00	-43.06	-48.01	13.20	-8.25	-25.00	-18.06
8025.00	-42.74	-43.73	11.05	-10.06	-25.00	-17.74

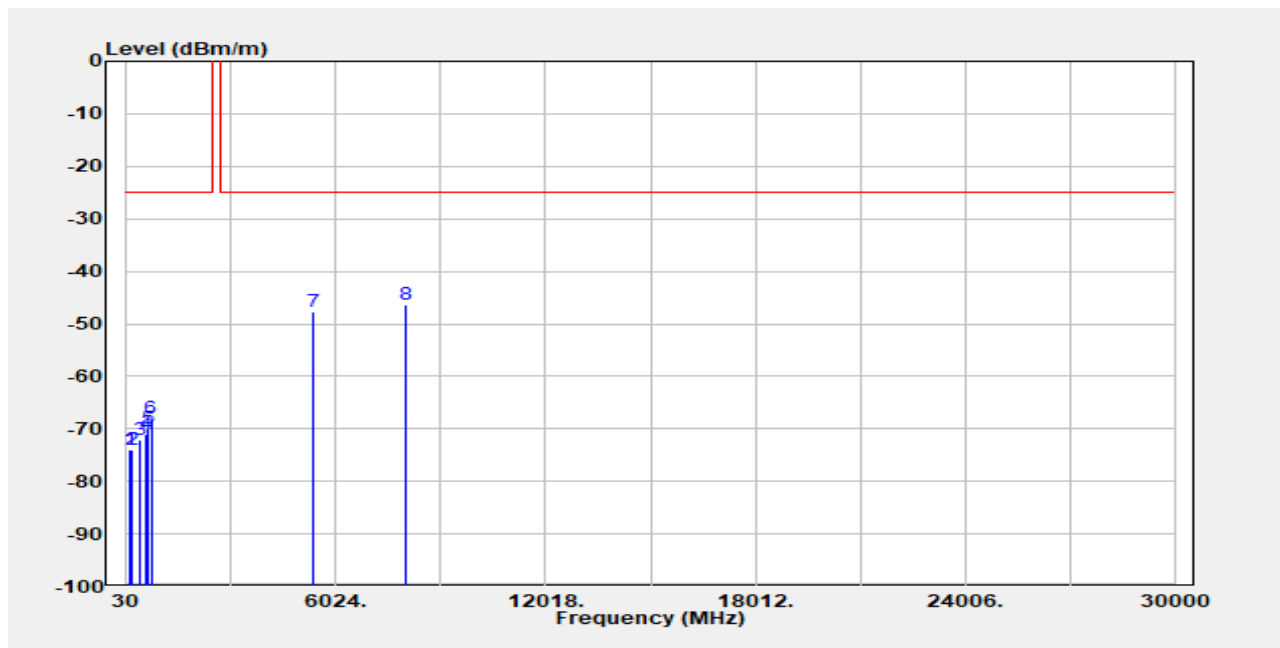
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 41C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :2675 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
135.73	-73.88	-73.09	0.48	-1.27	-25.00	-48.88
196.84	-74.12	-78.88	6.22	-1.46	-25.00	-49.12
436.43	-72.15	-76.33	6.36	-2.19	-25.00	-47.15
556.71	-71.10	-75.10	6.60	-2.61	-25.00	-46.10
638.19	-70.01	-73.74	6.02	-2.29	-25.00	-45.01
729.37	-68.03	-71.37	6.11	-2.77	-25.00	-43.03
5350.00	-47.66	-52.60	13.20	-8.25	-25.00	-22.66
8025.00	-46.31	-47.30	11.05	-10.06	-25.00	-21.31

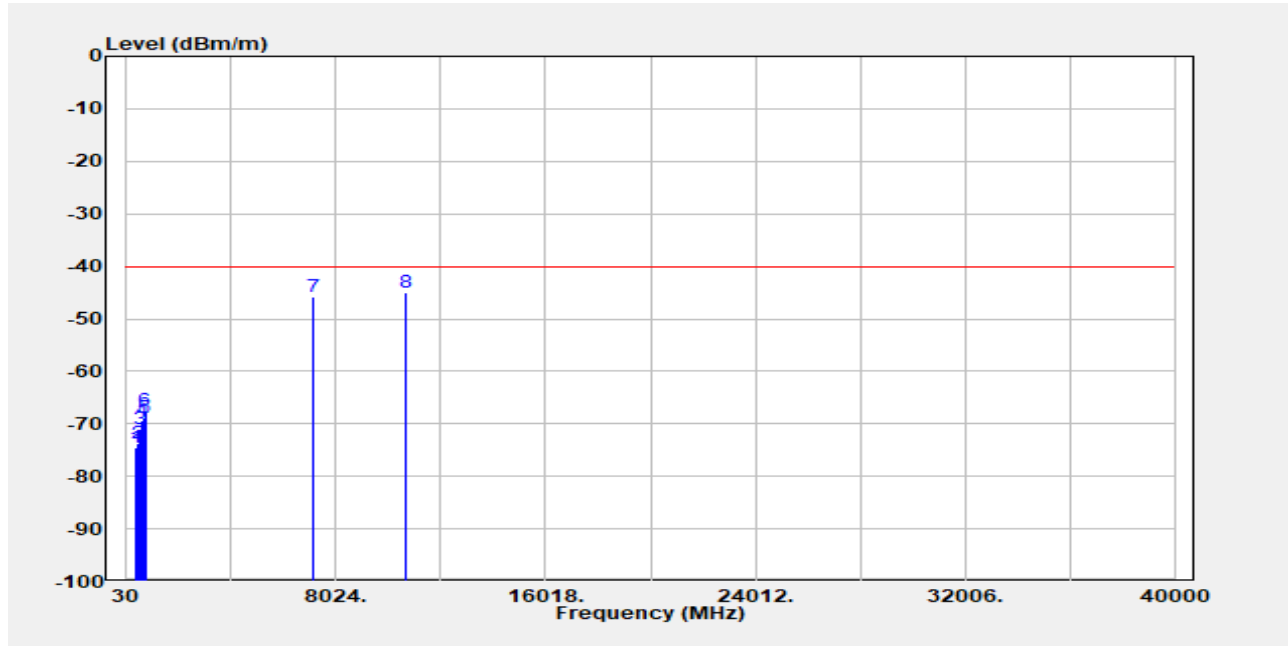
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3565.85 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
399.57	-74.56	-79.03	6.66	-2.19	-40.00	-34.56
450.01	-73.74	-77.80	6.29	-2.23	-40.00	-33.74
547.01	-71.03	-75.28	6.64	-2.39	-40.00	-31.03
637.22	-69.46	-73.16	6.01	-2.31	-40.00	-29.46
699.30	-68.75	-72.08	6.23	-2.90	-40.00	-28.75
730.34	-67.47	-70.79	6.09	-2.76	-40.00	-27.47
7131.70	-45.84	-47.26	11.17	-9.75	-40.00	-5.84
10697.55	-45.09	-44.39	11.10	-11.80	-40.00	-5.09

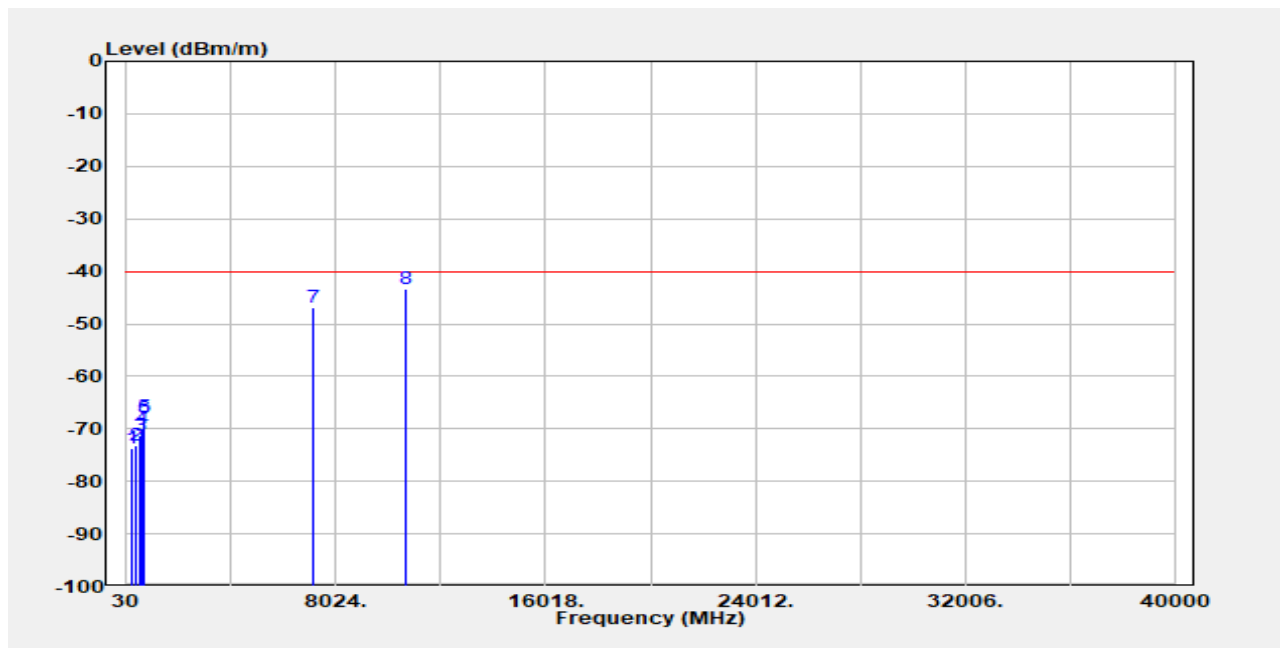
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3565.85 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
201.69	-73.85	-78.96	6.58	-1.47	-40.00	-33.85
409.27	-73.21	-77.95	6.68	-1.94	-40.00	-33.21
552.83	-71.30	-75.42	6.62	-2.50	-40.00	-31.30
619.76	-69.80	-73.44	6.07	-2.43	-40.00	-29.80
712.88	-67.81	-71.00	6.18	-3.00	-40.00	-27.81
727.43	-67.91	-71.32	6.16	-2.75	-40.00	-27.91
7131.70	-46.79	-48.21	11.17	-9.75	-40.00	-6.79
10697.55	-43.43	-42.73	11.10	-11.80	-40.00	-3.43

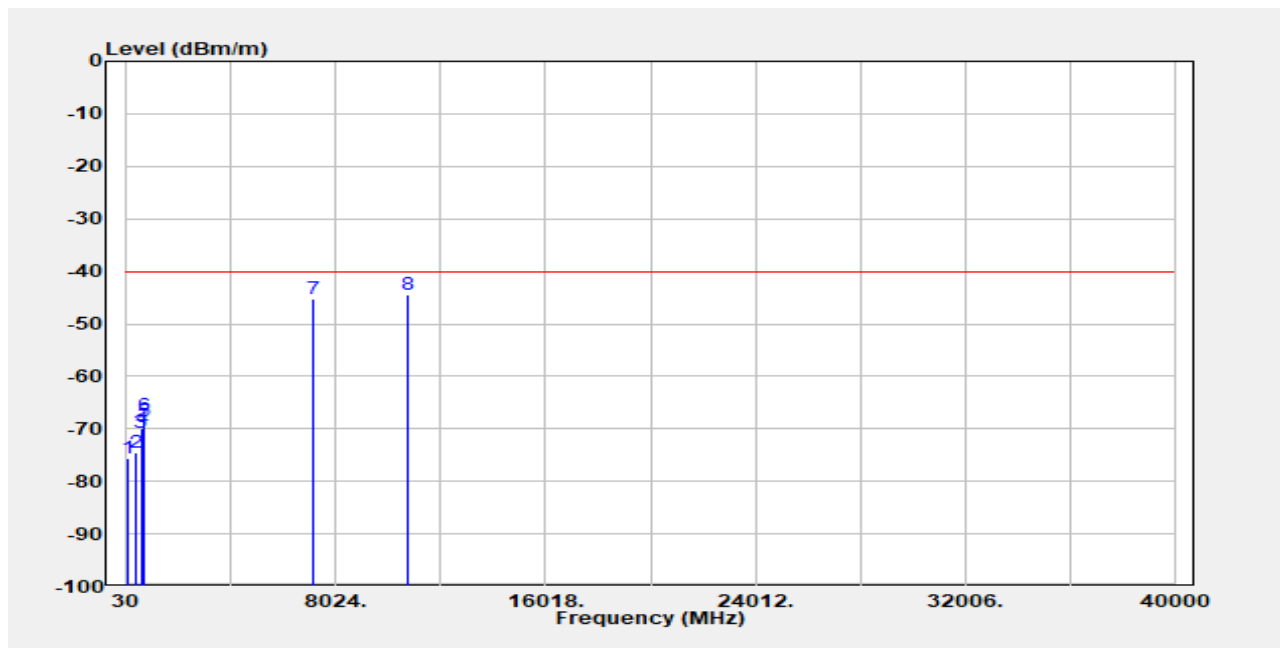
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3578.35 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-75.72	-75.67	1.01	-1.06	-40.00	-35.72
412.18	-74.45	-79.20	6.68	-1.94	-40.00	-34.45
576.11	-70.60	-74.23	6.39	-2.76	-40.00	-30.60
650.80	-69.86	-73.32	6.09	-2.64	-40.00	-29.86
678.93	-68.61	-72.09	6.44	-2.96	-40.00	-28.61
728.40	-67.42	-70.79	6.13	-2.76	-40.00	-27.42
7156.70	-45.38	-47.05	11.07	-9.40	-40.00	-5.38
10735.05	-44.57	-44.22	11.06	-11.41	-40.00	-4.57

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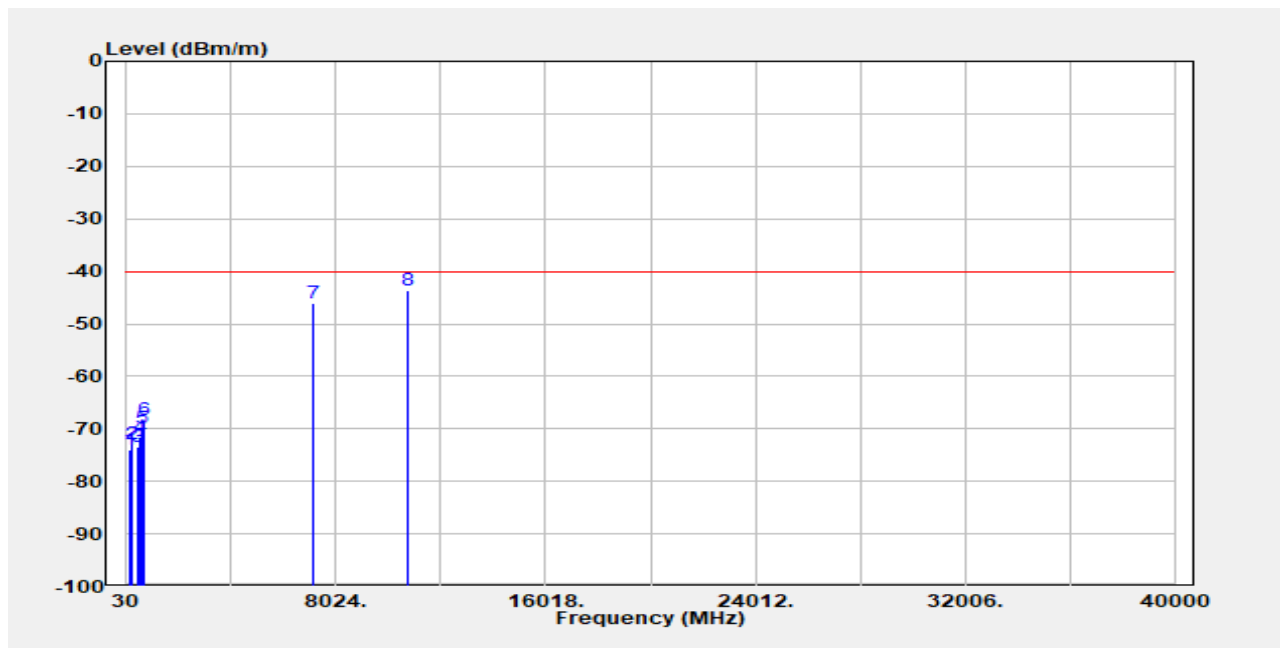
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3578.35 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-73.95	-73.46	0.66	-1.15	-40.00	-33.95
198.78	-72.82	-77.74	6.39	-1.46	-40.00	-32.82
440.31	-73.36	-77.38	6.29	-2.27	-40.00	-33.36
549.92	-71.44	-75.66	6.63	-2.41	-40.00	-31.44
637.22	-69.80	-73.49	6.01	-2.31	-40.00	-29.80
721.61	-68.19	-71.95	6.46	-2.71	-40.00	-28.19
7156.70	-46.19	-47.87	11.07	-9.40	-40.00	-6.19
10735.05	-43.74	-43.40	11.06	-11.41	-40.00	-3.74

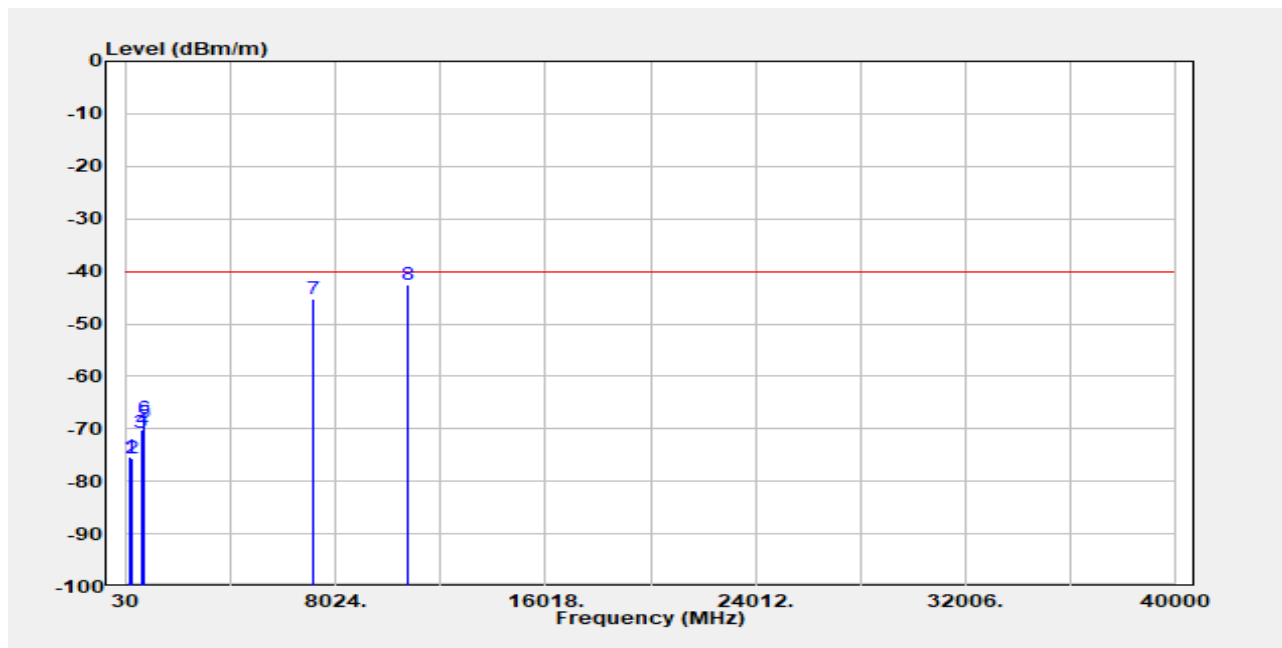
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3590.85 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :VERTICAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-75.24	-74.80	0.79	-1.23	-40.00	-35.24
237.58	-75.70	-80.60	6.53	-1.63	-40.00	-35.70
576.11	-70.83	-74.46	6.39	-2.76	-40.00	-30.83
634.31	-70.12	-73.72	5.98	-2.38	-40.00	-30.12
697.36	-68.79	-72.09	6.25	-2.95	-40.00	-28.79
725.49	-68.03	-71.51	6.22	-2.74	-40.00	-28.03
7181.70	-45.34	-46.75	10.97	-9.56	-40.00	-5.34
10772.55	-42.66	-42.06	11.03	-11.62	-40.00	-2.66

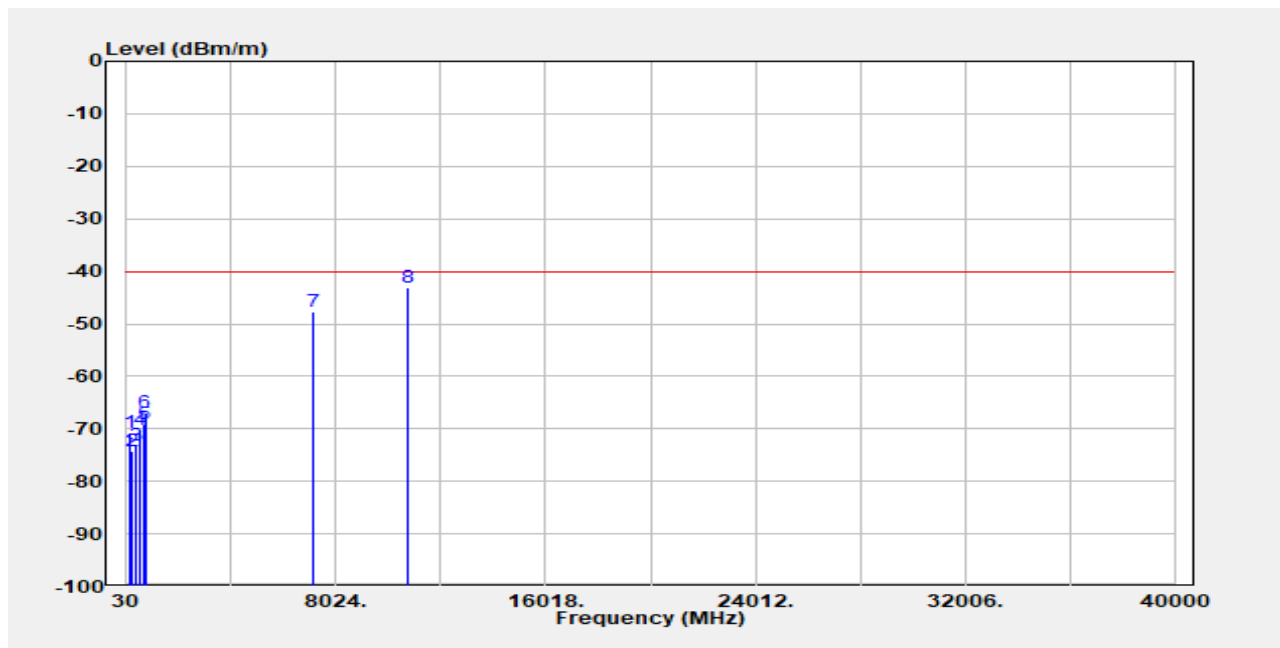
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Report Number :TERF2206000797ER  
 Operation Mode :ULCA 42C  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Test Frequency :3590.85 MHz

Test Site :SAC 1  
 Test Date :2022-06-17  
 Temp./Humi. :22.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.28	-70.83	-70.40	0.73	-1.16	-40.00	-30.83
194.90	-74.18	-78.83	6.11	-1.46	-40.00	-34.18
406.36	-73.19	-77.85	6.67	-2.02	-40.00	-33.19
575.14	-70.14	-73.80	6.41	-2.75	-40.00	-30.14
701.24	-69.03	-72.36	6.24	-2.91	-40.00	-29.03
729.37	-66.96	-70.30	6.11	-2.77	-40.00	-26.96
7181.70	-47.62	-49.03	10.97	-9.56	-40.00	-7.62
10772.55	-42.97	-42.37	11.03	-11.62	-40.00	-2.97

~ End of Report ~

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