

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Laipac Technology Inc.
25 Valleywood Dr Unit 11, Markham, ON L3R 5L9

Manufacturer: Laipac Technology Inc.
25 Valleywood Dr Unit 11, Markham, ON L3R 5L9

Product Name: RF Transmitter Module

Brand Name: Telit

Model No.: UE910-GL

Model Difference: N/A

Report Number: E2/2022/20112

FCC ID: TET-UE910GL

IC: 11280A-UE910GL

Issue Date: March 24, 2023

Date of Test: April 11, 2022

Date of EUT Received: February 21, 2022

Approved By _____

Vito Pei

Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 22H & 24E and ISED RSS-Gen, 132, 133.

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

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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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2022/20112	00	Original	March 24, 2023	Yuri Tsai	

Note:

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

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	S911 Enforcer
Brand Name:	S911 Enforcer
Model No. of Host:	EN105
Model No. of WWAN Module:	UE910-GL
Hardware Version:	V2.2
Firmware Version:	V1.54.04
EUT Series No.:	Conducted: 355000080085047GL Radiated: 355000080089981 GL
Class II & Class IV Permissive change:	UE910-GL INSTALLED IN S911 Enforcer
Power Supply:	3.8V
Test Software (Name / Version)	Default

1.2 Operation Frequency Range

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

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1.3 Antenna Designation

Antenna Type
PIFA
Note: Transmission in frequencies in this test report are only available by the above antenna(s).

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
WCDMA / HSPA+ Band II	1852.4 - 1907.6	0.2
WCDMA / HSPA+ Band V	826.4 - 846.6	-1.8

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

KDB412172 D01 Determining ERP and EIRP v01r01

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

1.5 Test Facility

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

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

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1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

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

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

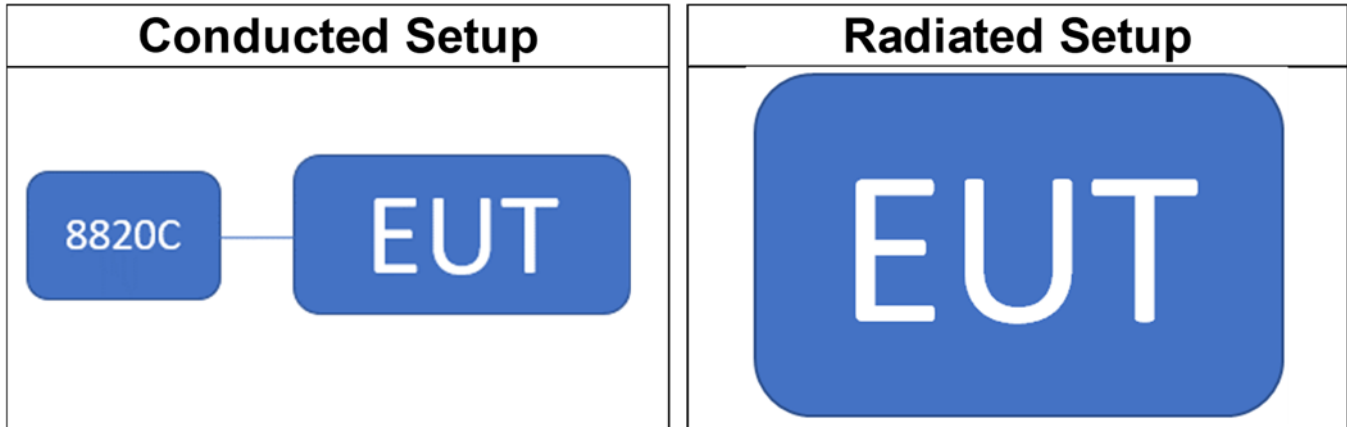
The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving 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.

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3 TEST CONFIGURATION



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

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4 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c)	RSS-132 §5.4 RSS-133 §6.4	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	RSS-GEN §6.13 RSS-132 §5.5 RSS-133 §6.5	Field Strength of Spurious Radiation	Compliant

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5 DESCRIPTION OF TEST MODES

5.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

5.2 Measurement Configuration

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

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6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB

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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7 MEASUREMENT EQUIPMENT USED

7.1 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022

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7.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBEC K	VULB 9168	9168-617	11/12/2021	11/11/2022
Broadband Antenna	SCHWARZBEC K	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/09/2022	04/08/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Radio Communication Analyer	Anritsu	MT8820C	6201465316	06/22/2021	06/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45 SE	980815	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMCCFD400 -NM-NM- 8000-5000- 2000	210216 、 210217 、 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104- SM-SM- 8000-5000- 5000	210219 、 210220 、 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105- NM-NM- 5000-15000	210224 、 210306	03/15/2022	03/14/2023

Note: N.C.R refers to No calibration required

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8 MAXIMUM OUTPUT POWER

8.1 Standard Applicable

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

According to FCC §2.1046

FCC 22.913(a)

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

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

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-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

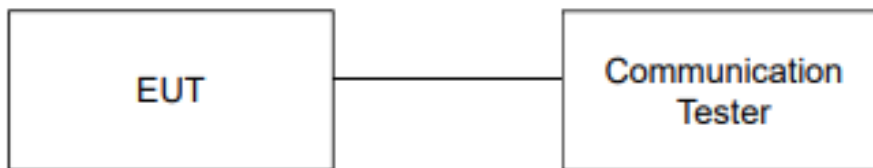
According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

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8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a 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 RMC 12.2kps is used for Base station setting.

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

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

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

According to KDB 412172 D01 Power Approach,

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

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T = transmitter output power, expressed in dBW, dBm, or PSD;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

8.5 Measurement Results

8.5.1 WCDMA & HSPA Measurement Results:

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

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

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

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WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.44	0.20	20.49	22.64	33.00	-10.36
	1880.0	9400	22.33	0.20	20.38	22.53	33.00	-10.47
	1907.6	9538	22.18	0.20	20.23	22.38	33.00	-10.62

WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.14	-1.80	19.19	21.34	38.50	-17.16
	836.6	4183	23.05	-1.80	19.10	21.25	38.50	-17.25
	846.6	4233	22.92	-1.80	18.97	21.12	38.50	-17.38

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

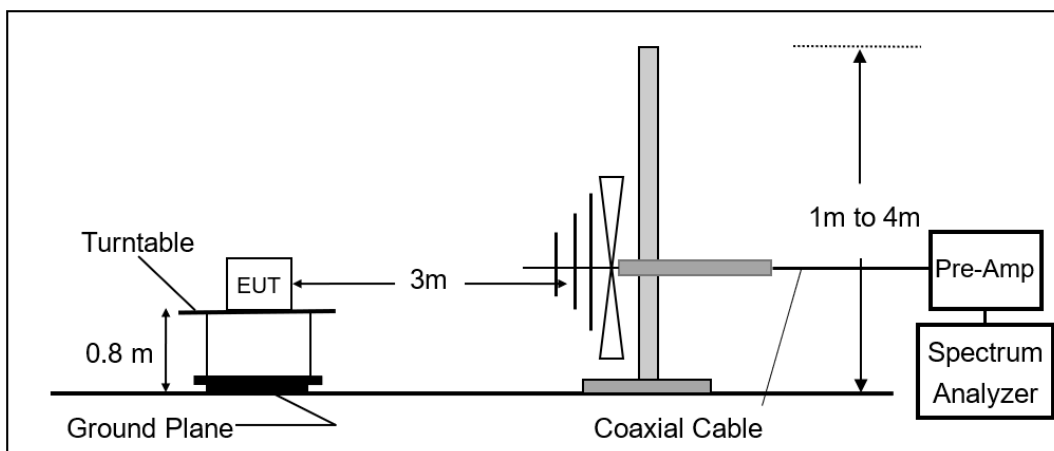
According to FCC §2.1053,

FCC §22.917(a), §24.238(a) and RSS-132 §5.5, RSS-133 §6.5.1

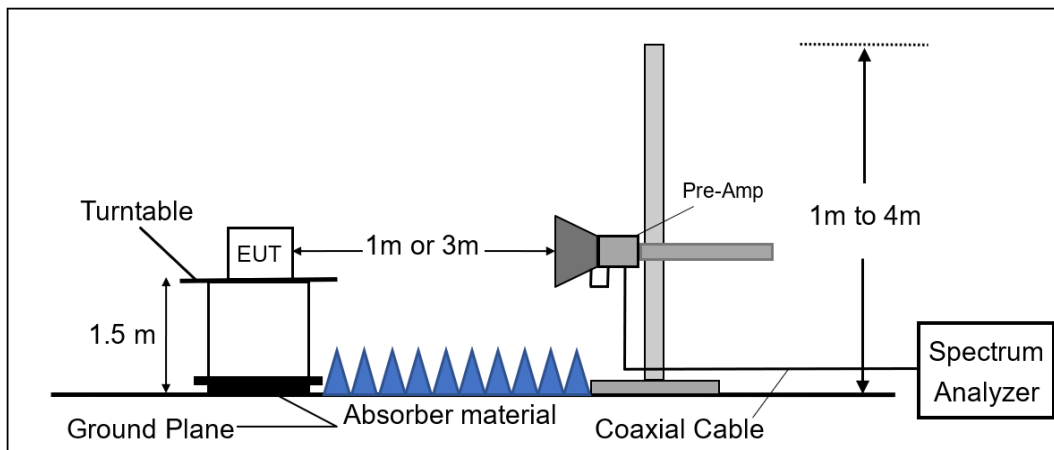
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

9.2 EUT Setup

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



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



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9.3 Measurement Procedure:

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

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

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

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

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

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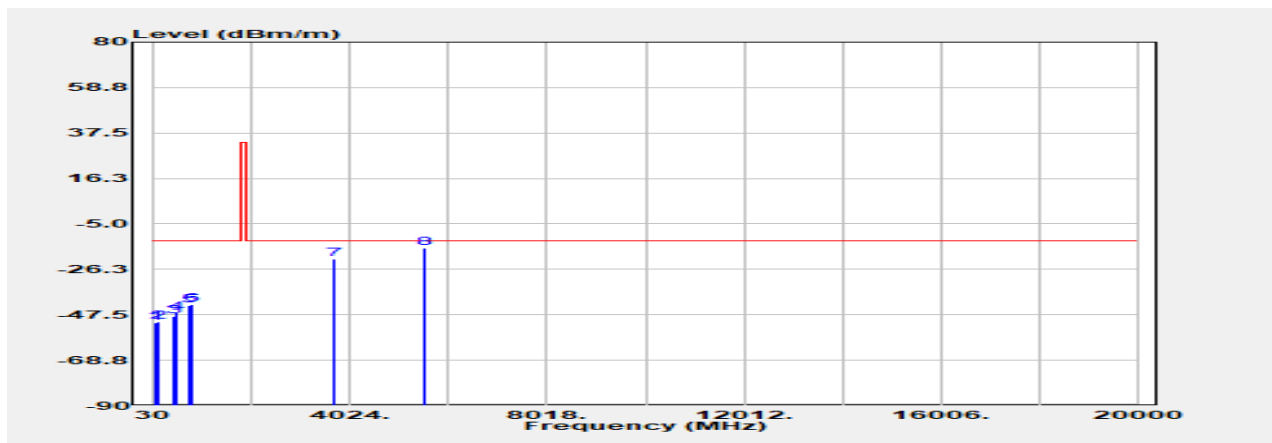
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9.4 Measurement Result:

Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane
 Test Frequency :1852.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-51.31	-47.04	-1.52	-2.75	-13.00	-38.31
159.980	-50.98	-46.92	-1.26	-2.80	-13.00	-37.98
447.100	-48.06	-49.53	4.13	-2.66	-13.00	-35.06
529.550	-46.69	-48.18	4.15	-2.66	-13.00	-33.69
774.960	-43.34	-43.17	3.15	-3.32	-13.00	-30.34
845.770	-42.50	-43.4	4.69	-3.79	-13.00	-29.50
3704.800	-21.23	-23.93	12.19	-9.49	-13.00	-8.23
5557.200	-16.17	-17.82	13.30	-11.65	-13.00	-3.17

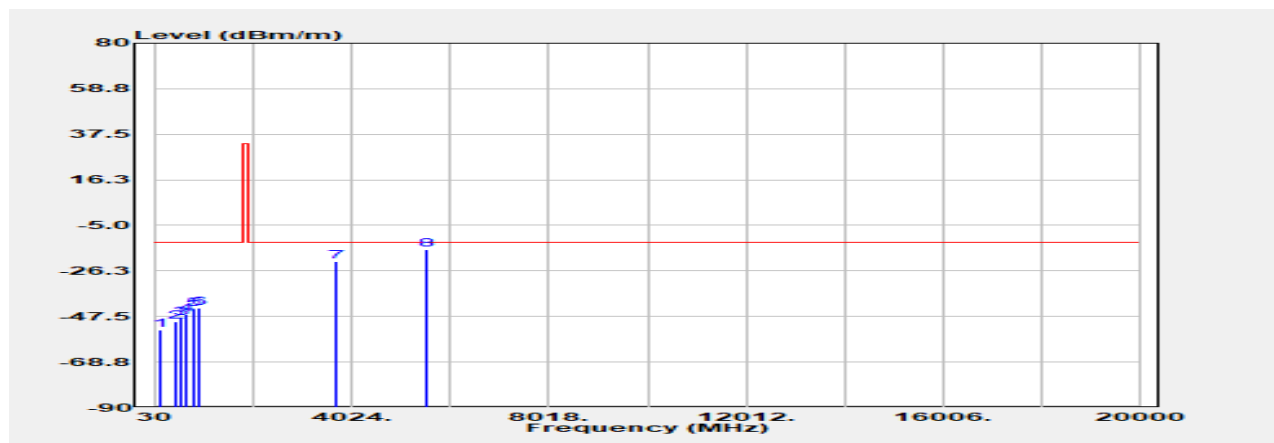
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane
 Test Frequency :1852.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.310	-53.88	-49.39	-1.66	-2.83	-13.00	-40.88
485.900	-49.87	-50.95	4.27	-3.19	-13.00	-36.87
579.020	-48.34	-48.9	3.93	-3.37	-13.00	-35.34
682.810	-46.48	-46.93	3.79	-3.34	-13.00	-33.48
816.670	-44.06	-44.61	4.33	-3.78	-13.00	-31.06
952.470	-43.75	-43.09	3.79	-4.45	-13.00	-30.75
3704.800	-21.63	-24.33	12.19	-9.49	-13.00	-8.63
5557.200	-16.18	-17.83	13.30	-11.65	-13.00	-3.18

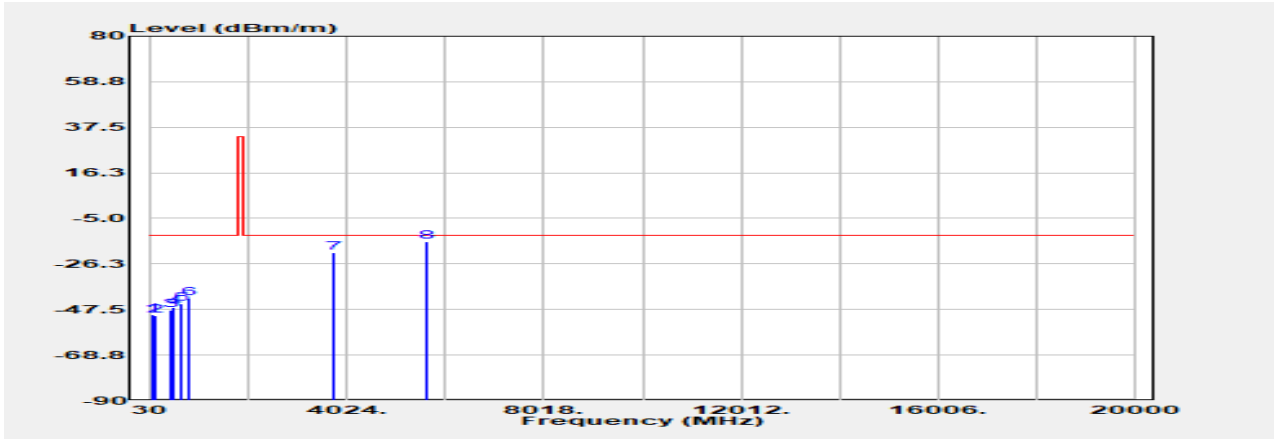
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH MID
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-49.91	-45.61	-1.55	-2.75	-13.00	-36.91
158.040	-50.28	-46.2	-1.27	-2.81	-13.00	-37.28
453.890	-47.83	-49.29	4.12	-2.66	-13.00	-34.83
533.430	-46.47	-47.99	4.20	-2.68	-13.00	-33.47
689.600	-45.04	-45.64	3.74	-3.14	-13.00	-32.04
850.620	-42.23	-43.07	4.64	-3.80	-13.00	-29.23
3760.000	-21.06	-23.73	12.10	-9.43	-13.00	-8.06
5640.000	-15.85	-17.63	13.46	-11.68	-13.00	-2.85

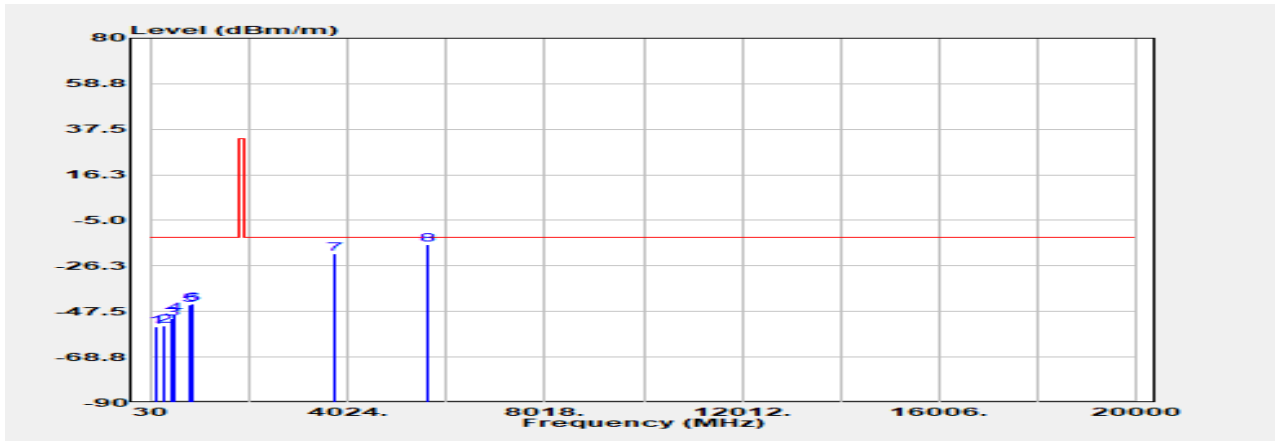
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH MID
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.280	-54.83	-50.4	-1.60	-2.83	-13.00	-41.83
317.120	-54.05	-54.97	4.14	-3.22	-13.00	-41.05
472.320	-50.77	-51.88	4.14	-3.03	-13.00	-37.77
543.130	-48.59	-50.03	4.27	-2.83	-13.00	-35.59
812.790	-44.23	-44.8	4.31	-3.74	-13.00	-31.23
906.880	-43.94	-43.54	4.13	-4.53	-13.00	-30.94
3760.000	-20.42	-23.09	12.10	-9.43	-13.00	-7.42
5640.000	-16.38	-18.16	13.46	-11.68	-13.00	-3.38

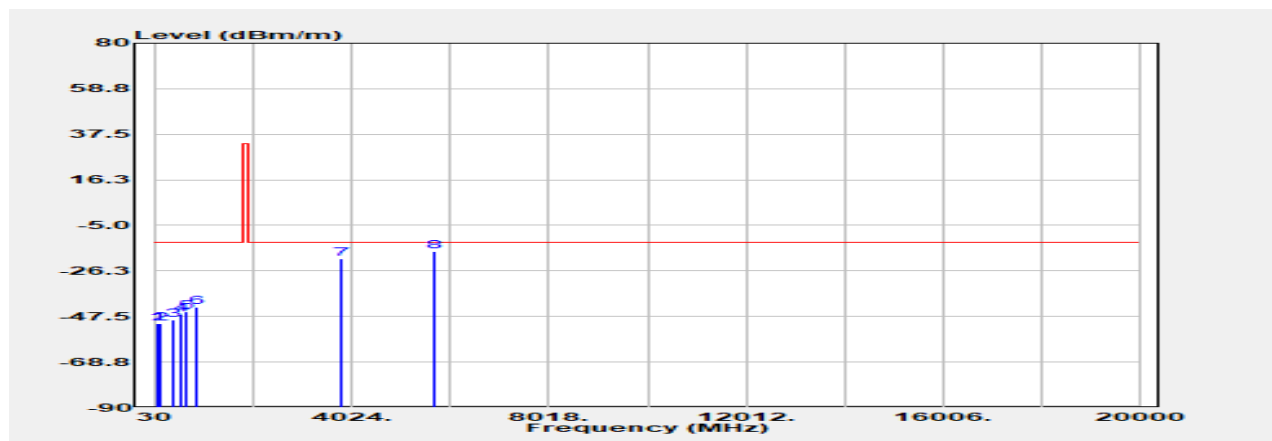
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.570	-50.97	-46.79	-1.44	-2.74	-13.00	-37.97
161.920	-50.93	-47.08	-1.05	-2.80	-13.00	-37.93
399.570	-48.99	-50.24	4.30	-3.05	-13.00	-35.99
585.810	-46.56	-47.13	3.80	-3.23	-13.00	-33.56
684.750	-45.16	-45.65	3.77	-3.28	-13.00	-32.16
897.180	-42.93	-42.71	4.32	-4.54	-13.00	-29.93
3815.200	-20.42	-22.93	12.10	-9.59	-13.00	-7.42
5722.800	-17.15	-18.76	13.35	-11.74	-13.00	-4.15

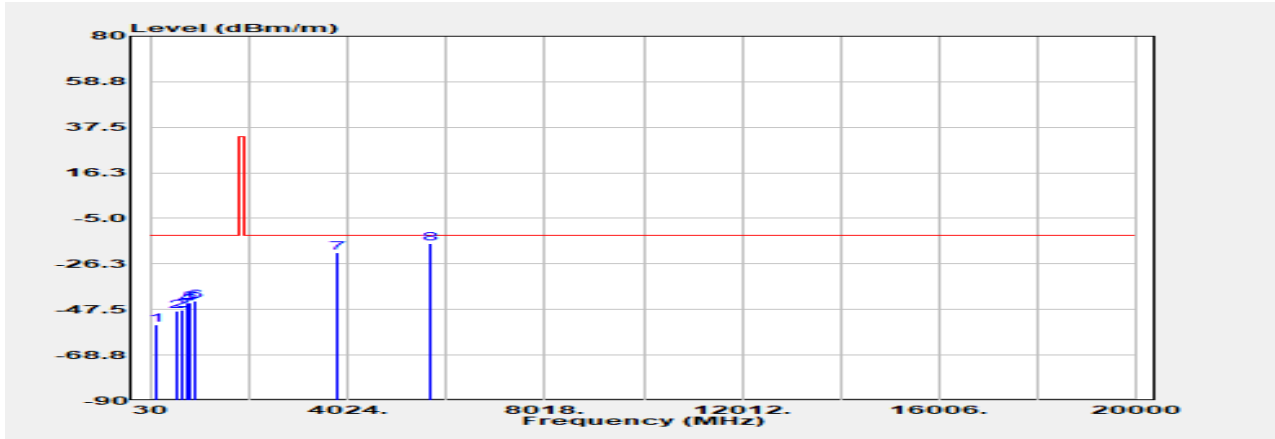
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B2
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.370	-54.52	-49.84	-1.87	-2.81	-13.00	-41.52
590.660	-48.26	-48.93	3.78	-3.11	-13.00	-35.26
682.810	-47.87	-48.32	3.79	-3.34	-13.00	-34.87
791.450	-44.85	-45.14	3.76	-3.47	-13.00	-31.85
854.500	-44.52	-45.25	4.60	-3.87	-13.00	-31.52
959.260	-43.74	-42.97	3.72	-4.49	-13.00	-30.74
3815.200	-21.04	-23.55	12.10	-9.59	-13.00	-8.04
5722.800	-16.60	-18.21	13.35	-11.74	-13.00	-3.60

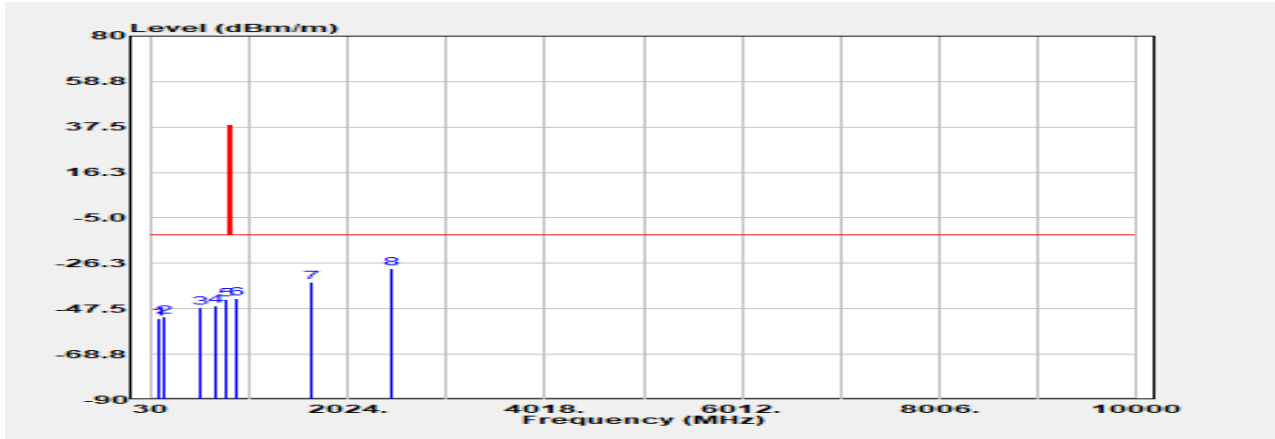
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane
 Test Frequency :826.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-51.97	-47.7	-1.52	-2.75	-13.00	-38.97
164.830	-51.23	-47.69	-0.73	-2.81	-13.00	-38.23
528.580	-47.15	-48.63	4.15	-2.67	-13.00	-34.15
688.630	-45.91	-46.49	3.75	-3.17	-13.00	-32.91
787.570	-43.30	-43.52	3.64	-3.42	-13.00	-30.30
912.700	-42.74	-42.15	3.90	-4.49	-13.00	-29.74
1652.800	-35.08	-38.25	9.40	-6.23	-13.00	-22.08
2479.200	-28.77	-31.53	10.38	-7.62	-13.00	-15.77

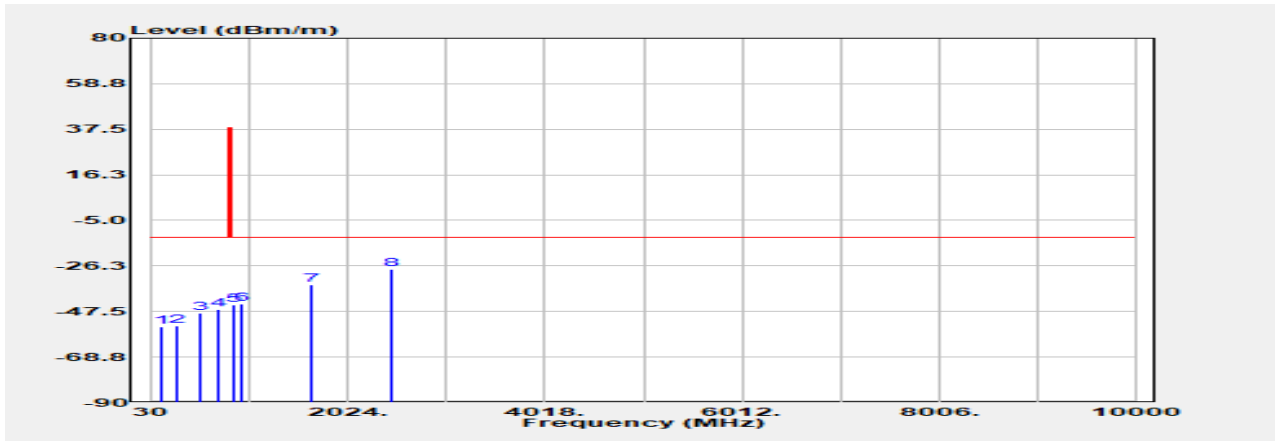
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane
 Test Frequency :826.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.370	-54.82	-50.14	-1.87	-2.81	-13.00	-41.82
293.840	-54.24	-55.16	4.05	-3.13	-13.00	-41.24
534.400	-48.37	-49.9	4.22	-2.69	-13.00	-35.37
729.370	-46.59	-45.8	3.14	-3.93	-13.00	-33.59
870.020	-44.48	-44.96	4.55	-4.07	-13.00	-31.48
959.260	-43.79	-43.02	3.72	-4.49	-13.00	-30.79
1652.800	-34.94	-38.11	9.40	-6.23	-13.00	-21.94
2479.200	-27.80	-30.56	10.38	-7.62	-13.00	-14.80

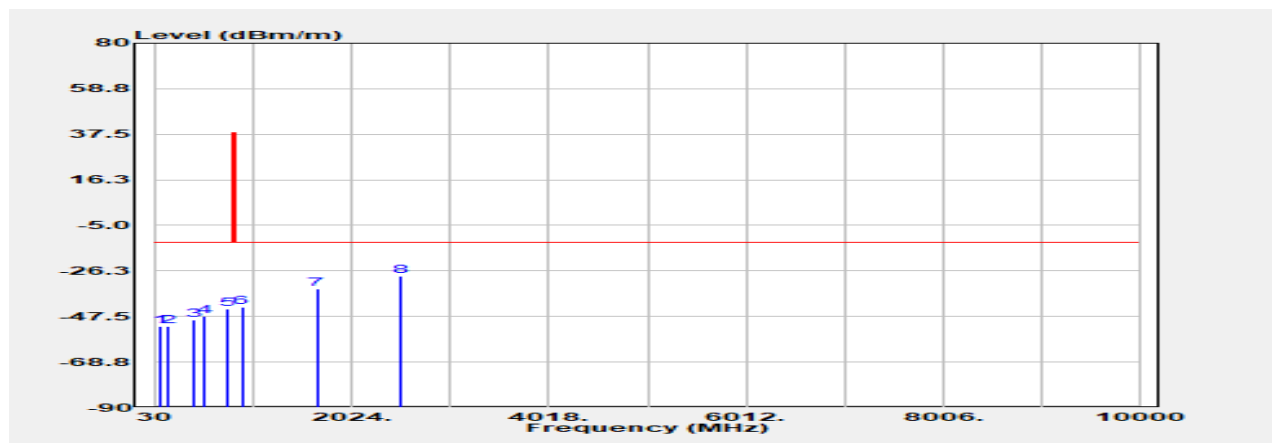
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH MID
 EUT Pol :E2 Plane
 Test Frequency :836.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.690	-52.27	-48.23	-1.32	-2.72	-13.00	-39.27
164.830	-52.05	-48.51	-0.73	-2.81	-13.00	-39.05
441.280	-49.01	-50.34	4.06	-2.73	-13.00	-36.01
531.490	-47.49	-48.99	4.17	-2.67	-13.00	-34.49
774.960	-44.18	-44.01	3.15	-3.32	-13.00	-31.18
914.640	-43.14	-42.48	3.81	-4.47	-13.00	-30.14
1672.800	-34.47	-37.58	9.40	-6.29	-13.00	-21.47
2509.200	-28.51	-31.42	10.57	-7.66	-13.00	-15.51

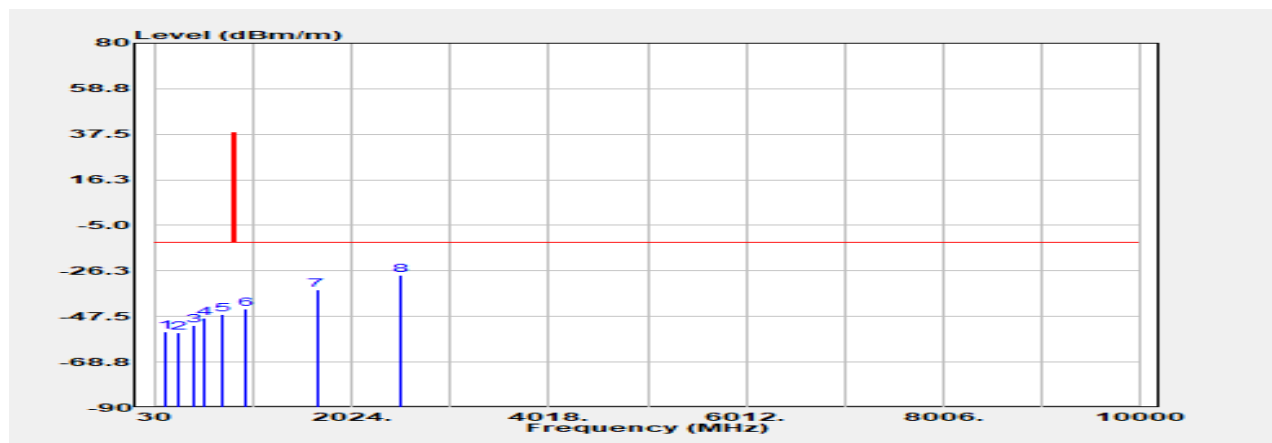
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH MID
 EUT Pol :E2 Plane
 Test Frequency :836.4 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.370	-54.82	-50.14	-1.87	-2.81	-13.00	-41.82
271.530	-54.97	-55.92	4.05	-3.10	-13.00	-41.97
439.340	-51.50	-52.77	4.02	-2.75	-13.00	-38.50
534.400	-48.37	-49.9	4.22	-2.69	-13.00	-35.37
729.370	-46.59	-45.8	3.14	-3.93	-13.00	-33.59
959.260	-43.79	-43.02	3.72	-4.49	-13.00	-30.79
1672.800	-34.86	-37.97	9.40	-6.29	-13.00	-21.86
2509.200	-28.29	-31.2	10.57	-7.66	-13.00	-15.29

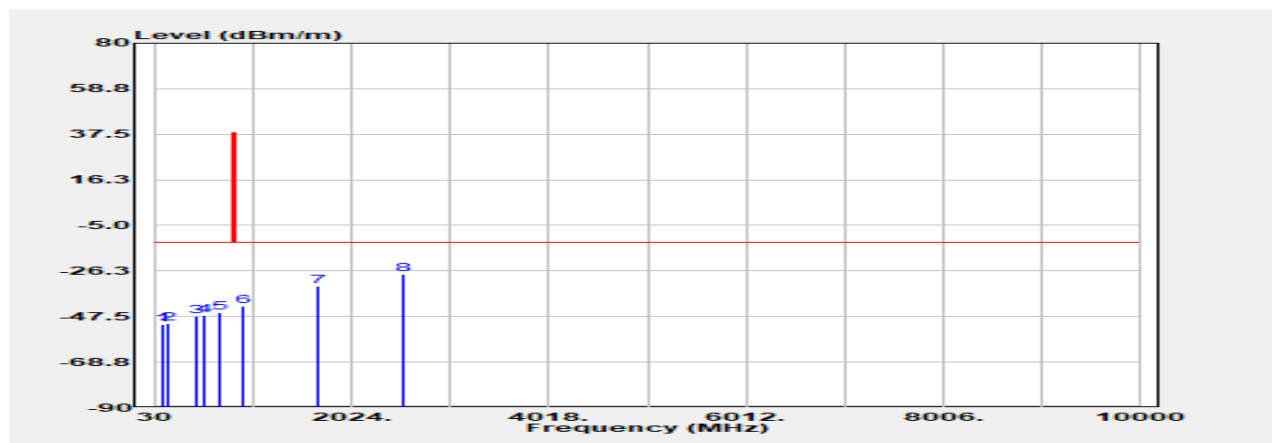
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane
 Test Frequency :846.6 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-51.32	-47.05	-1.52	-2.75	-13.00	-38.32
175.500	-50.98	-48.57	0.45	-2.86	-13.00	-37.98
454.860	-47.32	-48.77	4.12	-2.67	-13.00	-34.32
534.400	-47.13	-48.66	4.22	-2.69	-13.00	-34.13
681.840	-45.62	-46.05	3.80	-3.37	-13.00	-32.62
917.550	-42.66	-41.93	3.71	-4.44	-13.00	-29.66
1693.200	-33.53	-36.62	9.40	-6.31	-13.00	-20.53
2539.800	-27.93	-31	10.82	-7.75	-13.00	-14.93

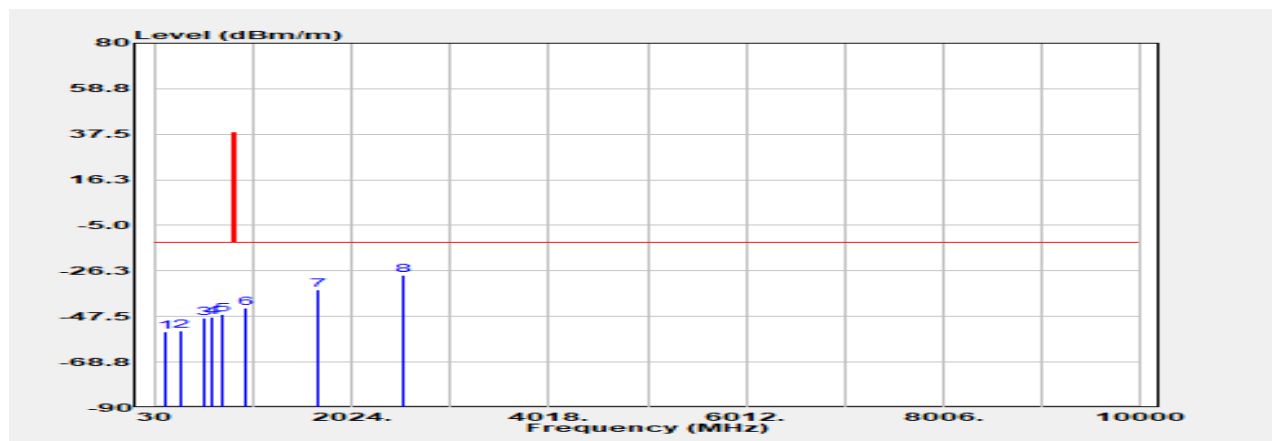
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Report Number :E2/2022/20112
 Operation Mode :WCDMA B5
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane
 Test Frequency :846.6 MHz

Test Site :SAC G
 Test Date :2022-04-11
 Temp./Humi. :24.2/65
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.370	-54.82	-50.14	-1.87	-2.81	-13.00	-41.82
293.840	-54.24	-55.16	4.05	-3.13	-13.00	-41.24
534.400	-48.37	-49.9	4.22	-2.69	-13.00	-35.37
604.240	-47.70	-48.48	3.60	-2.82	-13.00	-34.70
729.370	-46.59	-45.8	3.14	-3.93	-13.00	-33.59
953.440	-43.57	-42.9	3.78	-4.45	-13.00	-30.57
1693.200	-34.85	-37.94	9.40	-6.31	-13.00	-21.85
2539.800	-28.38	-31.45	10.82	-7.75	-13.00	-15.38

~ End of Report ~

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