

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CLASS II PC REPORT



FCC Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

Product Name: 7c Modular Platform

Brand Name: acer

Model No.: QSIP7180

Model Difference: N/A

Report Number: ER/2021/70044

FCC ID HLZQSIP7180

Issue Date: Sep. 07, 2021

Date of Test: Jul. 24, 2021 ~ Aug. 20, 2021

Date of EUT Received: Jul. 09, 2021

Approved By

CHUN-CHIEH, CHEN

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/70044	Rev.00	Original.	Sep. 07, 2021	Yi-Shan Tsai

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	7c Modular Platform
Brand Name:	<i>acer</i>
Model No.:	QSIP7180
Model No. of Host:	N20Q7
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N8DAISY005117007F37600 (Conducted) N8A4DWW0031241CABC7600 (Radiated)
Power Supply:	11.4Vdc from Rechargeable Li-polymer Battery Pack 19Vdc from AC/DC Adapter

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1.2 Operation Frequency Range

LTE Band 7		LTE Band 38		LTE Band 41	
BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)
5	2502.5 - 2567.5	5	2572.5 - 2617.5	5	2498.5 - 2687.5
10	2505.0 - 2565.0	10	2575.0 - 2615.0	10	2501.0 - 2685.0
15	2507.5 - 2562.5	15	2577.5 - 2612.5	15	2503.5 - 2682.5
20	2510.0 - 2560.0	20	2580.0 - 2610.0	20	2506.0 - 2680.0

1.3 Antenna Designation

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

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)	
				Main	Aux
LTE-Band 7	2500	~	2570	1.71	1.14
LTE-Band 38	2570	~	2620	1.71	0.72
LTE-Band 41	2496	~	2690	1.71	1.14

Note: Antenna information is provided by the applicant.

1.4 Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

Laboratory	Test Site Address		IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input checked="" type="checkbox"/>	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW3702
	<input type="checkbox"/>	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	

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1.5 Test Facility

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

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

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites for Measurements from 9 kHz to 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 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. Following shows an offset computation in physical test.

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2.5 Test Configuration

2.5.1 Conducted Emission at the Antenna Port



2.5.2 Radiated Emission



2.5.3 Equipment used for test

Equipment	Mfr/Brand	Model/Type No.	Series No.
Test Software	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1053 §27.53(h) §27.53(m)(4)(6)	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Test Channel Details

This device is ASUS Phone (Mobile Phone) that 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 increasing carrier frequency		Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidth for carrier [MHz]	Channel bandwidth for carrier [MHz]		
CA_7C	15	15	40	0
	20	20		
	10	20	40	1
	15	15,20		
	20	10,15,20	40	2
	15	10,15		
CA_38C	5,10,15,20	20		
	20	5,10,15		
CA_41C	10	20	40	0
	15	15,20		
	20	10,15,20		
	5,10	20	40	1
	15	15,20		
	20	5,10,15,20		
	10	15,20	40	2
	15	10,15,20		
	20	10,15,20		
	10	20	40	3
20	20			

4.2 The Worst-Case Test Modes and Details

1. Pre-Scan has been conducted to determine the worst-case mode from all possible positions of X(E1)Y(E2)Z(H) axis for radiated emission. The worst case was found as E1 plan.

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	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Radiated Emission	7C	v	v	v					v		v							v	
	38C	v	v	v						v								v	
	41C	v	v	v					v		v							v	

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 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 MAXIMUM OUTPUT POWER

6.1 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.

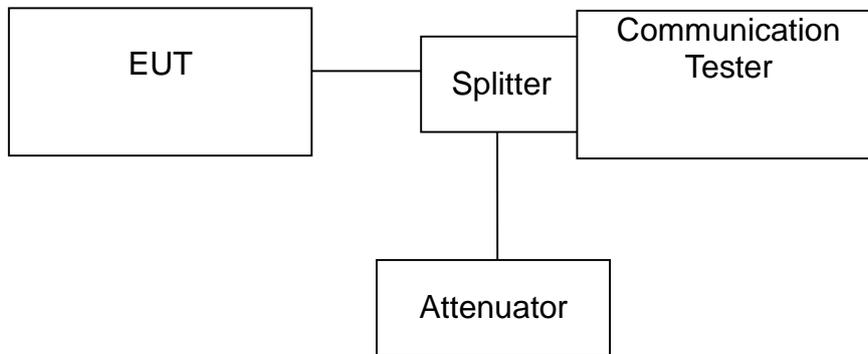
6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 27, 50(h)

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

6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3 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.

6.4 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.

6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021

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6.6 LTE Measurement Results:

6.6.1 Intra-Band

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	20.64	22.69	23.65	25.36	0.344
						50	0	100	0	18.41	18.52	21.45	23.16	0.207
	21006	2525.6	21150	2540.0	QPSK	1	49	1	0	20.59	22.47	23.56	25.27	0.337
						50	0	100	0	18.44	18.36	21.39	23.10	0.204
	21206	2545.6	21350	2560.0	QPSK	1	49	1	0	20.28	22.25	23.26	24.97	0.314
						50	0	100	0	18.37	18.28	21.31	23.02	0.200
10MHz+ 20MHz	20805	2505.5	20949	2519.9	16QAM	1	49	1	0	19.67	21.28	22.39	24.10	0.257
						50	0	100	0	17.52	17.57	20.44	22.15	0.164
	21006	2525.6	21150	2540.0	16QAM	1	49	1	0	19.50	21.43	22.53	24.24	0.265
						50	0	100	0	17.54	17.45	20.48	22.19	0.166
	21206	2545.6	21350	2560.0	16QAM	1	49	1	0	19.22	21.18	22.18	23.89	0.245
						50	0	100	0	17.48	17.32	20.39	22.10	0.162
10MHz+ 20MHz	20805	2505.5	20949	2519.9	64QAM	1	49	1	0	17.51	19.47	20.45	22.16	0.164
						50	0	100	0	17.45	17.59	20.53	22.24	0.167
	21006	2525.6	21150	2540.0	64QAM	1	49	1	0	17.75	19.62	20.75	22.46	0.176
						50	0	100	0	17.67	17.63	20.64	22.35	0.172
	21206	2545.6	21350	2560.0	64QAM	1	49	1	0	17.44	19.29	20.39	22.10	0.162
						50	0	100	0	17.50	17.36	20.41	22.12	0.163

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	22.44	20.44	23.43	25.14	0.327
						100	0	50	0	18.63	18.58	21.59	23.30	0.214
	21051	2530.1	21195	2544.5	QPSK	1	99	1	0	22.53	20.44	23.49	25.20	0.331
						100	0	50	0	18.66	18.56	21.59	23.30	0.214
	21251	2550.1	21395	2564.5	QPSK	1	99	1	0	22.34	20.58	23.61	25.32	0.340
						100	0	50	0	18.51	18.26	21.37	23.08	0.203
20MHz+ 10MHz	20850	2510.0	20994	2524.4	16QAM	1	99	1	0	21.51	19.61	22.60	24.31	0.270
						100	0	50	0	17.63	17.68	20.64	22.35	0.172
	21051	2530.1	21195	2544.5	16QAM	1	99	1	0	21.56	19.62	22.65	24.36	0.273
						100	0	50	0	17.76	17.63	20.68	22.39	0.173
	21251	2550.1	21395	2564.5	16QAM	1	99	1	0	21.27	19.29	22.28	23.99	0.251
						100	0	50	0	17.59	17.43	20.50	22.21	0.166
20MHz+ 10MHz	20850	2510.0	20994	2524.4	64QAM	1	99	1	0	19.41	17.47	20.50	22.21	0.166
						100	0	50	0	17.53	17.58	20.55	22.26	0.168
	21051	2530.1	21195	2544.5	64QAM	1	99	1	0	19.73	17.80	20.83	22.54	0.179
						100	0	50	0	17.78	17.67	20.71	22.42	0.175
	21251	2550.1	21395	2564.5	64QAM	1	99	1	0	19.38	17.41	20.36	22.07	0.161
						100	0	50	0	17.62	17.40	20.49	22.20	0.166

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	20.59	20.58	23.59	25.30	0.339
						75	0	75	0	18.53	18.60	21.57	23.28	0.213
	21025	2527.5	21175	2542.5	QPSK	1	74	1	0	20.69	20.70	23.70	25.41	0.348
						75	0	75	0	18.47	18.45	21.47	23.18	0.208
	21225	2547.5	21375	2562.5	QPSK	1	74	1	0	20.26	20.28	23.28	24.99	0.316
						75	0	75	0	18.53	18.40	21.48	23.19	0.208
15MHz+15MHz	20825	2507.5	20975	2522.5	16QAM	1	74	1	0	19.56	19.62	22.60	24.31	0.270
						75	0	75	0	17.42	17.48	20.46	22.17	0.165
	21025	2527.5	21175	2542.5	16QAM	1	74	1	0	19.46	19.49	22.49	24.20	0.263
						75	0	75	0	17.49	17.37	20.44	22.15	0.164
	21225	2547.5	21375	2562.5	16QAM	1	74	1	0	19.19	19.20	22.20	23.91	0.246
						75	0	75	0	17.47	17.29	20.39	22.10	0.162
15MHz+15MHz	20825	2507.5	20975	2522.5	64QAM	1	74	1	0	17.46	17.56	20.52	22.23	0.167
						75	0	75	0	17.63	17.70	20.67	22.38	0.173
	21025	2527.5	21175	2542.5	64QAM	1	74	1	0	17.94	17.53	20.75	22.46	0.176
						75	0	75	0	17.45	17.43	20.45	22.16	0.164
	21225	2547.5	21375	2562.5	64QAM	1	74	1	0	17.38	17.40	20.40	22.11	0.163
						75	0	75	0	17.43	17.31	20.38	22.09	0.162

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	20.49	20.50	23.50	25.21	0.332
						75	0	100	0	18.45	18.57	21.52	23.23	0.210
	21003	2525.3	21174	2542.4	QPSK	1	74	1	0	20.67	20.72	23.71	25.42	0.348
						75	0	100	0	18.60	18.59	21.61	23.32	0.215
	21179	2542.9	21350	2560.0	QPSK	1	74	1	0	20.60	20.48	23.55	25.26	0.336
						75	0	100	0	18.55	18.59	21.53	23.24	0.211
15MHz+20MHz	20828	2507.8	20999	2524.9	16QAM	1	74	1	0	19.62	19.64	22.64	24.35	0.272
						75	0	100	0	17.51	17.60	20.57	22.28	0.169
	21003	2525.3	21174	2542.4	16QAM	1	74	1	0	19.68	19.73	22.71	24.42	0.277
						75	0	100	0	17.57	17.49	20.54	22.25	0.168
	21179	2542.9	21350	2560.0	16QAM	1	74	1	0	19.78	19.65	22.73	24.44	0.278
						75	0	100	0	17.68	17.44	20.57	22.28	0.169
15MHz+20MHz	20828	2507.8	20999	2524.9	64QAM	1	74	1	0	17.43	17.33	20.39	22.10	0.162
						75	0	100	0	17.57	17.53	20.56	22.27	0.169
	21003	2525.3	21174	2542.4	64QAM	1	74	1	0	17.41	17.37	20.40	22.11	0.163
						75	0	100	0	17.69	17.63	20.67	22.38	0.173
	21179	2542.9	21350	2560.0	64QAM	1	74	1	0	17.55	17.42	20.50	22.21	0.166
						75	0	100	0	17.53	17.31	20.43	22.14	0.164

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	20.82	20.83	23.84	25.55	0.359
						100	0	75	0	18.63	18.61	21.63	23.34	0.216
	21026	2527.6	21197	2544.7	QPSK	1	99	1	0	20.73	20.70	23.73	25.44	0.350
						100	0	75	0	18.63	18.60	21.62	23.33	0.215
	21201	2545.1	21372	2562.2	QPSK	1	99	1	0	20.40	20.39	23.40	25.11	0.324
						100	0	75	0	18.47	18.34	21.41	23.12	0.205
20MHz+15MHz	20850	2510.0	21021	2527.1	16QAM	1	99	1	0	19.44	17.78	22.78	24.49	0.281
						100	0	75	0	17.54	17.59	20.57	22.28	0.169
	21026	2527.6	21197	2544.7	16QAM	1	99	1	0	19.86	19.83	22.85	24.56	0.286
						100	0	75	0	17.65	17.63	20.65	22.36	0.172
	21201	2545.1	21372	2562.2	16QAM	1	99	1	0	19.42	19.39	22.42	24.13	0.259
						100	0	75	0	17.84	17.57	20.72	22.43	0.175
20MHz+15MHz	20850	2510.0	21021	2527.1	64QAM	1	99	1	0	17.51	17.44	20.48	22.19	0.166
						100	0	75	0	17.66	17.71	20.69	22.40	0.174
	21026	2527.6	21197	2544.7	64QAM	1	99	1	0	17.77	17.75	20.77	22.48	0.177
						100	0	75	0	17.64	17.55	20.60	22.31	0.170
	21201	2545.1	21372	2562.2	64QAM	1	99	1	0	17.59	17.56	20.58	22.29	0.169
						100	0	75	0	17.55	17.30	20.44	22.15	0.164

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 7 (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	20.61	20.54	23.59	25.30	0.339
						100	0	100	0	18.58	18.63	21.61	23.32	0.215
	21001	2525.1	21199	2544.9	QPSK	1	99	1	0	20.81	20.72	23.77	25.48	0.353
						100	0	100	0	18.67	18.53	21.61	23.32	0.215
	21152	2540.2	21350	2560.0	QPSK	1	99	1	0	20.51	20.35	23.44	25.15	0.327
						100	0	100	0	18.62	18.39	21.52	23.23	0.210
20MHz+20MHz	20850	2510.0	21048	2529.8	16QAM	1	99	1	0	19.78	19.81	22.81	24.52	0.283
						100	0	100	0	17.51	17.55	20.54	22.25	0.168
	21001	2525.1	21199	2544.9	16QAM	1	99	1	0	19.84	19.78	22.82	24.53	0.284
						100	0	100	0	17.72	17.67	20.71	22.42	0.175
	21152	2540.2	21350	2560.0	16QAM	1	99	1	0	19.41	19.24	22.34	24.05	0.254
						100	0	100	0	17.63	17.39	20.52	22.23	0.167
20MHz+20MHz	20850	2510.0	21048	2529.8	64QAM	1	99	1	0	17.58	17.61	20.60	22.31	0.170
						100	0	100	0	17.61	17.56	20.60	22.31	0.170
	21001	2525.1	21199	2544.9	64QAM	1	99	1	0	17.38	17.43	20.41	22.12	0.163
						100	0	100	0	17.63	17.58	20.62	22.33	0.171
	21152	2540.2	21350	2560.0	64QAM	1	99	1	0	17.61	17.42	20.53	22.24	0.167
						100	0	100	0	17.64	17.39	20.53	22.24	0.167

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 38 (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	20.54	20.54	23.55	25.26	0.336
						75	0	75	0	18.47	18.58	21.53	23.24	0.211
	37925	2587.5	38075	2602.5	QPSK	1	74	1	0	20.50	20.54	23.53	25.24	0.334
						75	0	75	0	18.61	18.59	21.61	23.32	0.215
	38025	2597.5	38175	2612.5	QPSK	1	74	1	0	20.41	20.31	23.37	25.08	0.322
						75	0	75	0	18.57	18.42	21.51	23.22	0.210
15MHz+ 15MHz	37825	2577.5	37975	2592.5	16QAM	1	74	1	0	19.42	19.44	22.44	24.15	0.260
						75	0	75	0	17.54	17.68	20.61	22.32	0.171
	37925	2587.5	38075	2602.5	16QAM	1	74	1	0	19.56	19.51	22.54	24.25	0.266
						75	0	75	0	17.65	17.63	20.65	22.36	0.172
	38025	2597.5	38175	2612.5	16QAM	1	74	1	0	19.36	19.38	22.37	24.08	0.256
						75	0	75	0	17.64	17.49	20.58	22.29	0.169
15MHz+ 15MHz	37825	2577.5	37975	2592.5	64QAM	1	74	1	0	17.15	17.18	20.18	21.89	0.155
						75	0	75	0	17.50	17.61	20.57	22.28	0.169
	37925	2587.5	38075	2602.5	64QAM	1	74	1	0	17.26	17.22	20.25	21.96	0.157
						75	0	75	0	17.71	17.59	20.66	22.37	0.173
	38025	2597.5	38175	2612.5	64QAM	1	74	1	0	17.06	17.08	20.08	21.79	0.151
						75	0	75	0	17.62	17.46	20.55	22.26	0.168

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 38 (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	20.62	20.73	23.68	25.39	0.346
						100	0	100	0	18.64	18.65	21.66	23.37	0.217
	37901	2585.1	38099	2604.9	QPSK	1	99	1	0	20.51	20.54	23.53	25.24	0.334
						100	0	100	0	18.54	18.55	21.54	23.25	0.211
	37952	2590.2	38150	2610.0	QPSK	1	99	1	0	20.52	20.43	23.49	25.20	0.331
						100	0	100	0	18.72	18.50	21.63	23.34	0.216
20MHz+ 20MHz	37850	2580.0	38048	2599.8	16QAM	1	99	1	0	19.45	19.47	22.47	24.18	0.262
						100	0	100	0	17.72	117.63	20.68	22.39	0.173
	37901	2585.1	38099	2604.9	16QAM	1	99	1	0	19.52	19.56	22.55	24.26	0.267
						100	0	100	0	17.65	17.64	20.65	22.36	0.172
	37952	2590.2	38150	2610.0	16QAM	1	99	1	0	19.51	19.43	22.48	24.19	0.262
						100	0	100	0	17.74	17.52	20.64	22.35	0.172
20MHz+ 20MHz	37850	2580.0	38048	2599.8	64QAM	1	99	1	0	17.21	17.22	20.23	21.94	0.156
						100	0	100	0	17.65	17.66	20.67	22.38	0.173
	37901	2585.1	38099	2604.9	64QAM	1	99	1	0	17.28	17.20	20.25	21.96	0.157
						100	0	100	0	17.62	17.62	20.63	22.34	0.171
	37952	2590.2	38150	2610.0	64QAM	1	99	1	0	17.19	17.10	20.15	21.86	0.153
						100	0	100	0	17.69	17.47	20.59	22.30	0.170

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	20.57	23.57	23.58	25.29	0.338
						25	0	100	0	18.62	19.28	21.69	23.40	0.219
	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	20.58	23.58	23.58	25.29	0.338
						25	0	100	0	18.52	19.13	21.57	23.28	0.213
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	20.36	23.33	23.33	25.04	0.319
						25	0	100	0	18.34	18.96	21.40	23.11	0.205
5MHz+ 20MHz	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	19.64	22.64	22.64	24.35	0.272
						25	0	100	0	17.65	18.26	20.72	22.43	0.175
	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.67	22.70	22.71	24.42	0.277
						25	0	100	0	17.71	18.17	20.70	22.41	0.174
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	19.37	22.40	22.40	24.11	0.258
						25	0	100	0	17.39	17.95	20.44	22.15	0.164
5MHz+ 20MHz	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	17.23	20.22	20.23	21.94	0.156
						25	0	100	0	17.70	18.22	20.73	22.44	0.175
	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	17.34	20.33	20.33	22.04	0.160
						25	0	100	0	17.80	18.18	20.76	22.47	0.177
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	17.00	19.97	19.97	21.68	0.147
						25	0	100	0	17.46	17.94	20.48	22.19	0.166

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	23.54	20.52	23.54	25.25	0.335
						100	0	25	0	19.14	18.66	21.65	23.36	0.217
	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	23.54	20.51	23.55	25.26	0.336
						100	0	25	0	19.15	18.50	21.58	23.29	0.213
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	23.53	20.50	23.54	25.25	0.335
						100	0	25	0	18.89	18.44	21.42	23.13	0.206
20MHz+ 5MHz	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	22.59	19.56	22.59	24.30	0.269
						100	0	25	0	18.20	17.66	20.70	22.41	0.174
	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	22.56	19.57	22.56	24.27	0.267
						100	0	25	0	18.16	17.63	20.66	22.37	0.173
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	22.54	19.55	22.54	24.25	0.266
						100	0	25	0	18.01	17.58	20.55	22.26	0.168
20MHz+ 5MHz	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	20.20	17.17	20.00	21.71	0.148
						100	0	25	0	18.14	17.72	20.68	22.39	0.173
	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	20.25	17.22	20.25	21.96	0.157
						100	0	25	0	18.26	17.66	20.71	22.42	0.175
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	20.23	17.25	20.24	21.95	0.157
						100	0	25	0	18.04	17.64	20.59	22.30	0.170

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	20.56	22.49	23.58	25.29	0.338
						50	0	100	0	18.67	18.75	21.69	23.40	0.219
	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.52	22.43	23.52	25.23	0.333
						50	0	100	0	18.69	18.68	21.67	23.38	0.218
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	20.37	22.24	23.34	25.05	0.320
						50	0	100	0	18.31	18.52	21.40	23.11	0.205
10MHz+ 20MHz	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.61	21.66	22.63	24.34	0.272
						50	0	100	0	17.78	17.93	20.84	22.55	0.180
	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	19.66	21.70	22.67	24.38	0.274
						50	0	100	0	17.79	17.77	20.77	22.48	0.177
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	19.33	21.32	22.30	24.01	0.252
						50	0	100	0	17.35	17.52	20.42	22.13	0.163
10MHz+ 20MHz	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	17.34	17.39	20.39	22.10	0.162
						50	0	100	0	17.76	17.83	20.78	22.49	0.177
	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	17.33	19.31	20.33	22.04	0.160
						50	0	100	0	17.72	17.79	20.74	22.45	0.176
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	17.05	18.98	20.01	21.72	0.149
						50	0	100	0	17.40	17.49	20.43	22.14	0.164

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	22.65	20.56	23.59	25.30	0.339
						100	0	50	0	18.70	18.61	21.64	23.35	0.216
	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.53	20.45	23.50	25.21	0.332
						100	0	50	0	18.72	18.57	21.63	23.34	0.216
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	22.46	20.45	23.44	25.15	0.327
						100	0	50	0	18.46	18.44	21.43	23.14	0.206
20MHz+ 10MHz	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	21.57	19.68	22.65	24.36	0.273
						100	0	50	0	17.82	17.84	20.82	22.53	0.179
	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	21.57	19.65	22.65	24.36	0.273
						100	0	50	0	17.83	17.70	20.75	22.46	0.176
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	21.43	19.53	22.51	24.22	0.264
						100	0	50	0	17.61	17.51	20.55	22.26	0.168
20MHz+ 10MHz	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	19.32	17.36	20.38	22.09	0.162
						100	0	50	0	17.83	17.76	20.78	22.49	0.177
	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	19.22	17.30	20.29	22.00	0.158
						100	0	50	0	17.80	17.68	20.73	22.44	0.175
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	19.08	19.17	20.15	21.86	0.153
						100	0	50	0	17.57	17.47	20.51	22.22	0.167

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	20.53	20.57	23.56	25.27	0.337
						75	0	75	0	18.69	18.73	21.72	23.43	0.220
	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	20.60	20.53	23.57	25.28	0.337
						75	0	75	0	18.70	18.66	21.69	23.40	0.219
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	20.43	20.41	23.43	25.14	0.327
						75	0	75	0	18.32	18.38	21.36	23.07	0.203
15MHz+ 15MHz	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	19.56	19.60	22.59	24.30	0.269
						75	0	75	0	17.65	17.70	20.68	22.39	0.173
	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	19.64	19.66	22.66	24.37	0.274
						75	0	75	0	17.71	17.67	20.70	22.41	0.174
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	19.48	19.45	22.48	24.19	0.262
						75	0	75	0	17.32	17.47	20.40	22.11	0.163
15MHz+ 15MHz	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	17.38	17.33	20.37	22.08	0.161
						75	0	75	0	17.72	17.76	20.75	22.46	0.176
	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	17.36	17.28	20.33	22.04	0.160
						75	0	75	0	17.68	17.65	20.68	22.39	0.173
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	17.14	17.11	20.14	21.85	0.153
						75	0	75	0	17.39	17.45	20.43	22.14	0.164

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	20.47	20.43	23.46	25.17	0.329
						75	0	100	0	18.61	18.69	21.66	23.37	0.217
	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	20.64	20.63	23.64	25.35	0.343
						75	0	100	0	18.86	18.80	21.84	23.55	0.226
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	20.28	20.21	23.26	24.97	0.314
						75	0	100	0	18.23	18.42	21.34	23.05	0.202
15MHz+ 20MHz	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	20.02	19.99	23.02	24.73	0.297
						75	0	100	0	17.94	18.05	21.01	22.72	0.187
	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	19.73	19.82	22.78	24.49	0.281
						75	0	100	0	17.87	17.90	20.90	22.61	0.182
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	19.37	19.32	22.36	24.07	0.255
						75	0	100	0	17.40	17.44	20.43	22.14	0.164
15MHz+ 20MHz	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	17.96	17.64	20.81	22.52	0.179
						75	0	100	0	18.01	18.02	21.02	22.73	0.187
	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	17.43	17.40	20.42	22.13	0.163
						75	0	100	0	17.90	17.82	20.87	22.58	0.181
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	17.18	17.00	20.10	21.81	0.152
						75	0	100	0	17.34	17.48	20.42	22.13	0.163

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

OUTPUT POWER FOR LTE BAND 41 (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	20.55	20.51	23.54	25.25	0.335
						100	0	75	0	18.70	18.70	21.71	23.42	0.220
	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	20.59	20.49	23.55	25.26	0.336
						100	0	75	0	18.68	18.60	21.65	23.36	0.217
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	20.33	20.32	23.33	25.04	0.319
						100	0	75	0	18.29	18.31	21.31	23.02	0.200
20MHz+15MHz	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	19.67	19.63	22.66	24.37	0.274
						100	0	75	0	17.74	17.84	20.80	22.51	0.178
	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	19.61	19.62	22.63	24.34	0.272
						100	0	75	0	17.79	17.62	20.72	22.43	0.175
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	19.40	19.38	22.40	24.11	0.258
						100	0	75	0	17.32	17.44	20.39	22.10	0.162
20MHz+15MHz	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	17.23	17.27	20.26	21.97	0.157
						100	0	75	0	17.71	1.83	20.78	22.49	0.177
	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	17.32	17.24	20.29	22.00	0.158
						100	0	75	0	17.71	17.65	20.69	22.40	0.174
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	17.00	17.08	20.09	21.80	0.151
						100	0	75	0	17.30	17.44	20.38	22.09	0.162

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	1.71

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	20.62	20.59	23.61	25.32	0.340
						100	0	100	0	18.72	18.72	21.73	23.44	0.221
	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	20.54	20.55	23.55	25.26	0.336
						100	0	100	0	18.71	18.59	21.66	23.37	0.217
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	20.27	20.19	23.24	24.95	0.313
						100	0	100	0	18.33	18.34	21.34	23.05	0.202
20MHz+20MHz	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	19.60	19.66	22.64	24.35	0.272
						100	0	100	0	17.77	17.78	20.78	22.49	0.177
	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	19.66	19.67	22.68	24.39	0.275
						100	0	100	0	17.80	17.68	20.75	22.46	0.176
	41292	2660.2	41490	2680.0	16QAM	1	99	1	0	19.32	19.27	22.30	24.01	0.252
						100	0	100	0	17.40	17.41	20.41	22.12	0.163
20MHz+20MHz	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	17.28	17.33	20.32	22.03	0.160
						100	0	100	0	17.82	17.84	20.84	22.55	0.180
	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	17.29	17.29	20.30	22.01	0.159
						100	0	100	0	17.71	17.60	20.67	22.38	0.173
	41292	2660.2	41490	2680.0	64QAM	1	99	1	0	17.01	16.95	19.99	21.70	0.148
						100	0	100	0	17.32	17.43	20.38	22.09	0.162

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7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

7.1 Standard Applicable

According to FCC §2.1053,

§27.53(h)

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

FCC §27.53(m) (4) (6) for LTE B7, 38, 41

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.

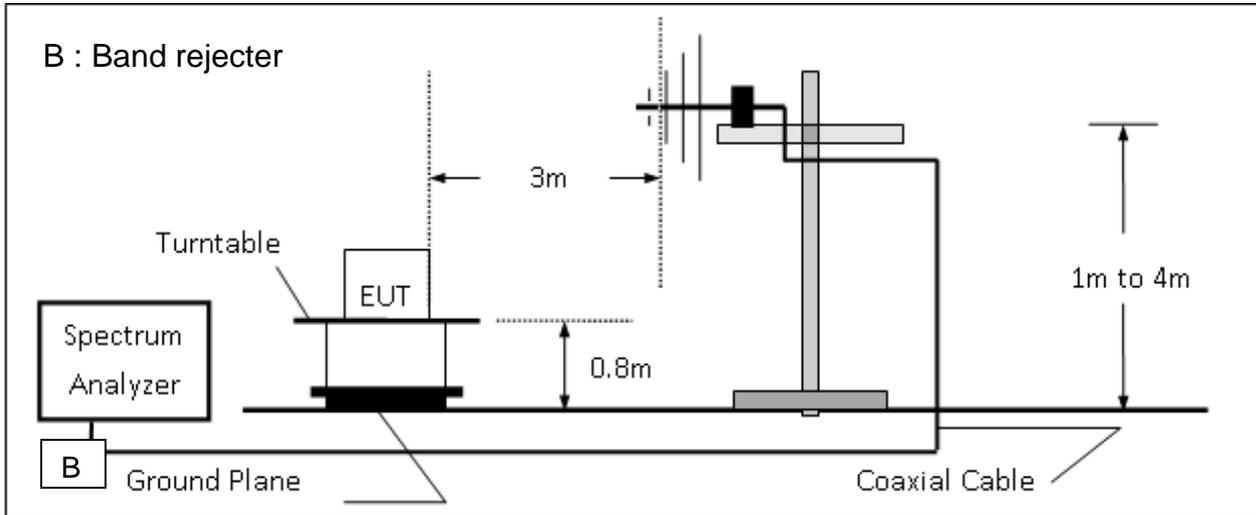
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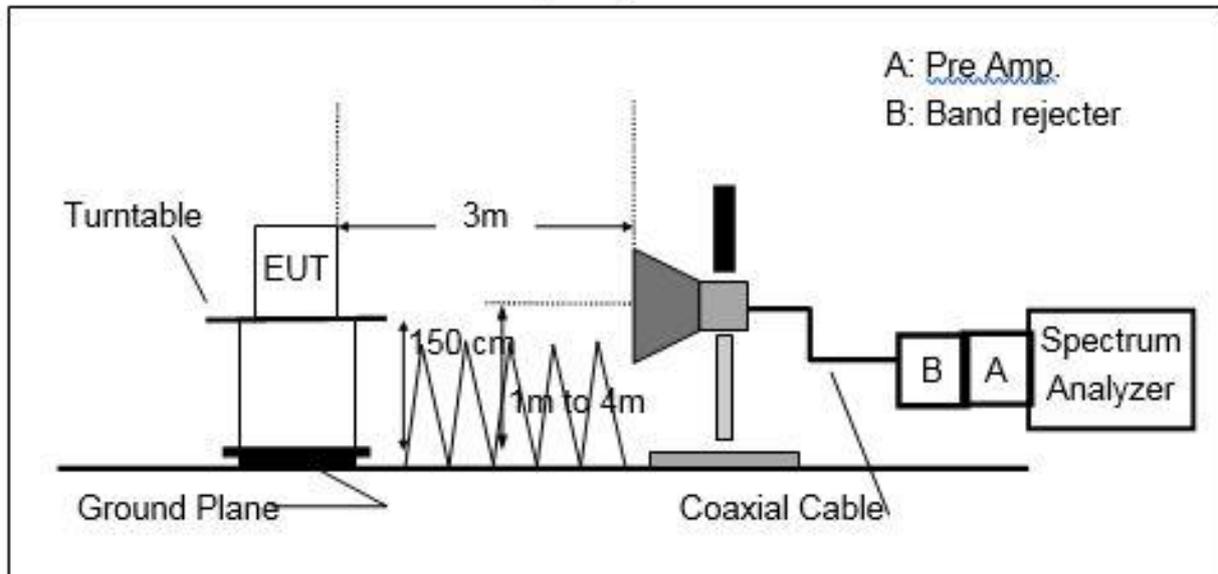
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7.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.3 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)

7.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZ-BECK	VULB9168	378	08/20/2021	08/19/2022
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	10/16/2020	10/15/2021
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Bi-log Antenna	SCHWARZ-BECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	603	05/18/2021	05/17/2022
Horn Antenna	SCHWARZ-BECK	BBHA9170	185	07/30/2020	07/29/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Signal Generator	Agilent	N5183A	MY50140591	12/27/2020	12/26/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/16/2020	12/15/2021

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2GHz High Pass Filter	Micro-Tronics	HPM50110	36	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11812c	N.C.R	N.C.R

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

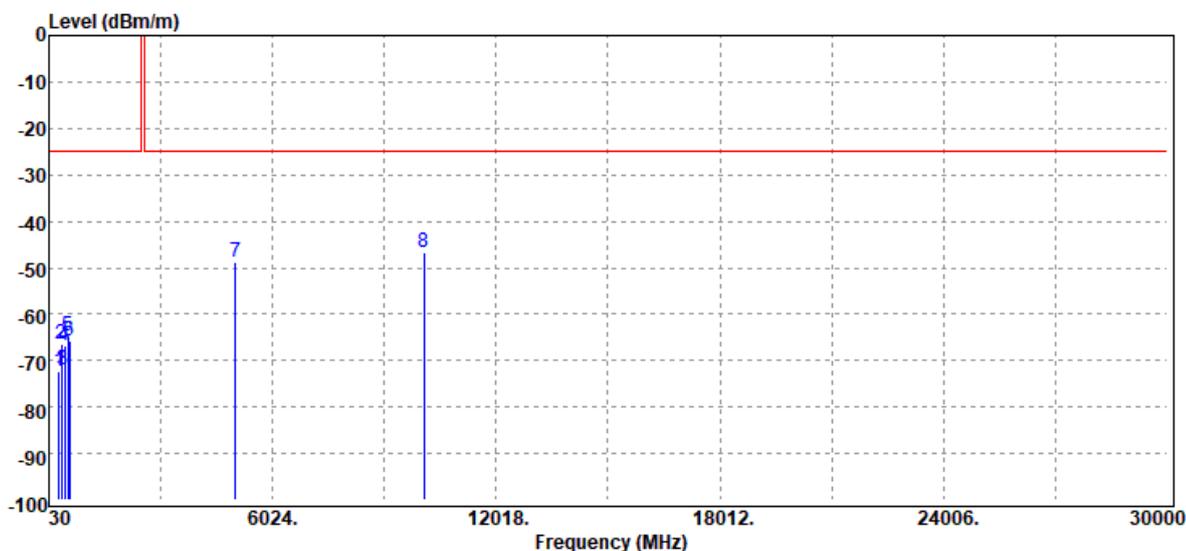
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7.5 Measurement Result:

Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 7C	Test Date	:2021-08-20
Test Mode	:Tx CH Low	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2510 MHz_2527.1 MHz	Engineer	:Ricky Chen



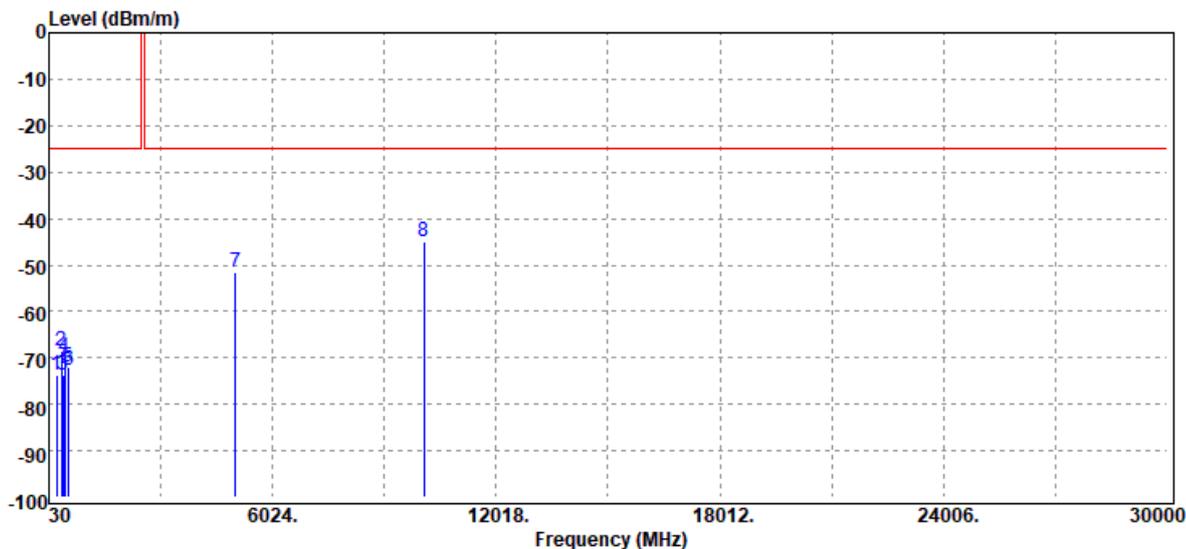
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
301.60	-72.45	-74.91	4.24	-1.78	-25.00	-47.45
361.74	-66.43	-68.96	4.48	-1.95	-25.00	-41.43
391.81	-71.88	-74.19	4.37	-2.06	-25.00	-46.88
451.95	-66.62	-68.54	4.14	-2.22	-25.00	-41.62
542.16	-64.74	-66.73	4.33	-2.34	-25.00	-39.74
573.20	-65.76	-67.13	4.02	-2.65	-25.00	-40.76
5037.10	-48.67	-53.24	12.20	-7.63	-25.00	-23.67
10074.20	-46.57	-47.48	11.87	-10.96	-25.00	-21.57

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 7C	Test Date	:2021-08-20
Test Mode	:Tx CH Low	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2510 MHz_2527.1 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-73.76	-76.53	4.38	-1.61	-25.00	-48.76
361.74	-68.45	-70.98	4.48	-1.95	-25.00	-43.45
411.21	-73.62	-76.18	4.41	-1.85	-25.00	-48.62
451.95	-69.86	-71.78	4.14	-2.22	-25.00	-44.86
542.16	-72.10	-74.09	4.33	-2.34	-25.00	-47.10
571.26	-72.80	-74.24	4.07	-2.63	-25.00	-47.80
5037.10	-51.64	-56.21	12.20	-7.63	-25.00	-26.64
10074.20	-45.05	-45.96	11.87	-10.96	-25.00	-20.05

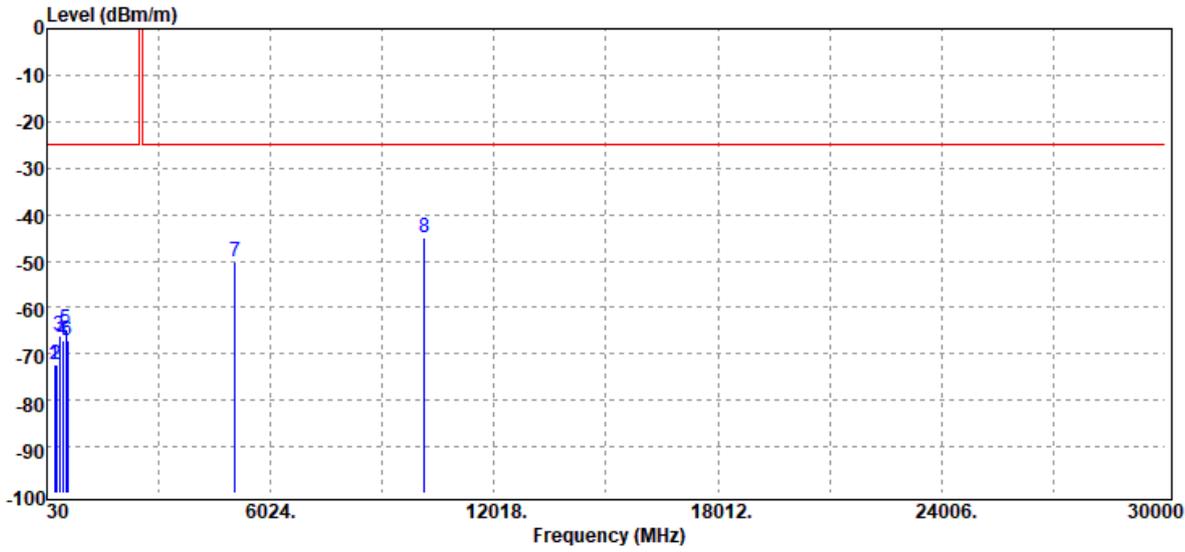
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Report Number :ER-2021-70044
 Operation Mode :ULCA 7C
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2527.6 MHz_2544.7 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



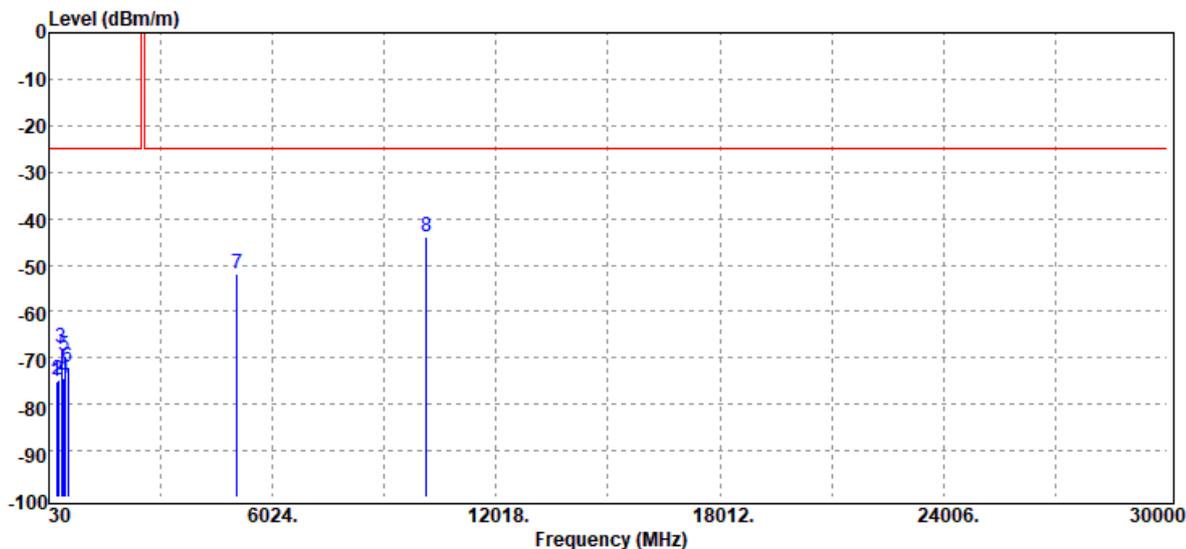
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-72.21	-74.98	4.38	-1.61	-25.00	-47.21
270.56	-72.27	-74.71	4.09	-1.65	-25.00	-47.27
361.74	-65.92	-68.45	4.48	-1.95	-25.00	-40.92
451.95	-66.98	-68.90	4.14	-2.22	-25.00	-41.98
542.16	-64.71	-66.70	4.33	-2.34	-25.00	-39.71
573.20	-66.98	-68.35	4.02	-2.65	-25.00	-41.98
5072.30	-50.04	-54.30	12.10	-7.84	-25.00	-25.04
10144.60	-44.95	-46.02	11.86	-10.79	-25.00	-19.95

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 7C	Test Date	:2021-08-20
Test Mode	:Tx CH Mid	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2527.6 MHz_2544.7 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-75.05	-77.82	4.38	-1.61	-25.00	-50.05
270.56	-74.86	-77.30	4.09	-1.65	-25.00	-49.86
361.74	-67.91	-70.44	4.48	-1.95	-25.00	-42.91
420.91	-74.35	-76.66	4.21	-1.90	-25.00	-49.35
451.95	-69.44	-71.36	4.14	-2.22	-25.00	-44.44
542.16	-71.86	-73.85	4.33	-2.34	-25.00	-46.86
5072.30	-51.95	-56.21	12.10	-7.84	-25.00	-26.95
10144.60	-43.91	-44.98	11.86	-10.79	-25.00	-18.91

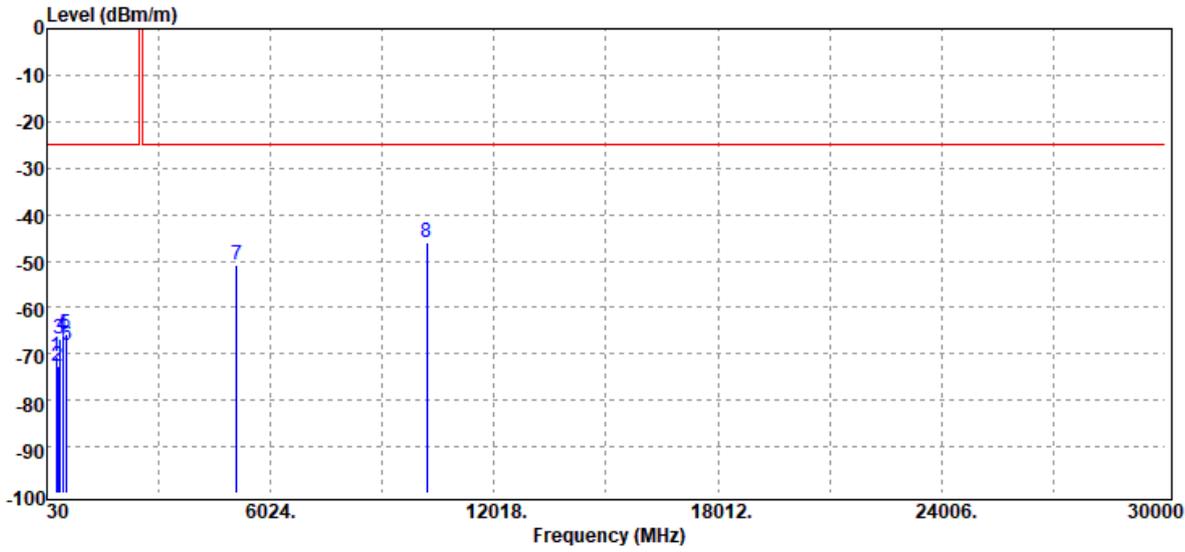
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Report Number :ER-2021-70044
 Operation Mode :ULCA 7C
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2545.1 MHz_2562.2 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
270.56	-70.61	-73.05	4.09	-1.65	-25.00	-45.61
330.70	-72.79	-75.13	4.25	-1.91	-25.00	-47.79
361.74	-66.65	-69.18	4.48	-1.95	-25.00	-41.65
451.95	-66.16	-68.08	4.14	-2.22	-25.00	-41.16
542.16	-65.64	-67.63	4.33	-2.34	-25.00	-40.64
571.26	-68.04	-69.48	4.07	-2.63	-25.00	-43.04
5107.30	-50.93	-55.04	12.10	-7.99	-25.00	-25.93
10214.60	-46.15	-47.50	11.77	-10.42	-25.00	-21.15

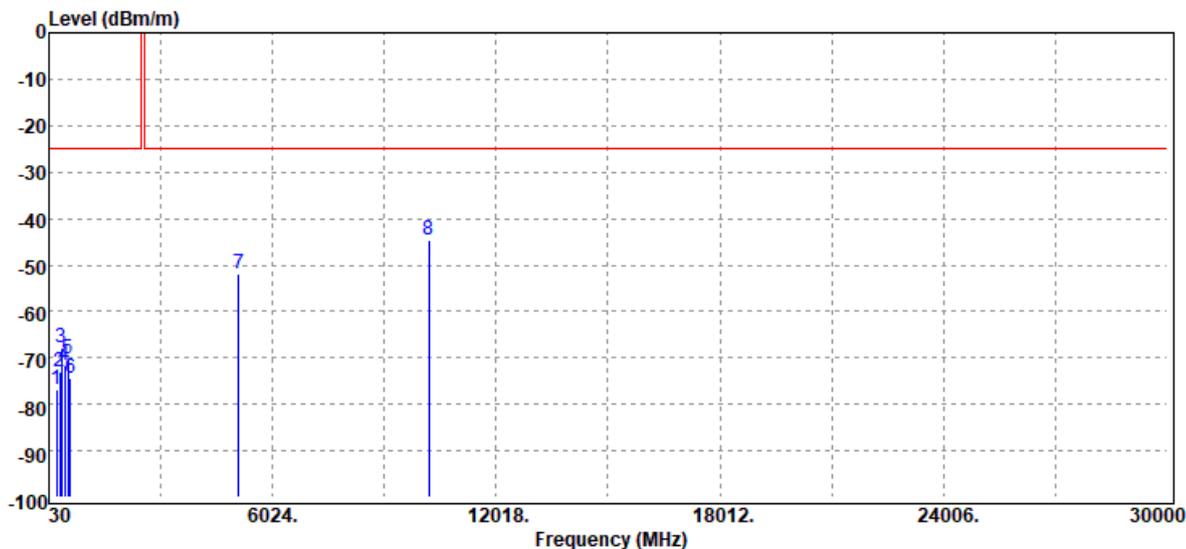
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Report Number :ER-2021-70044
 Operation Mode :ULCA 7C
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2545.1 MHz_2562.2 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



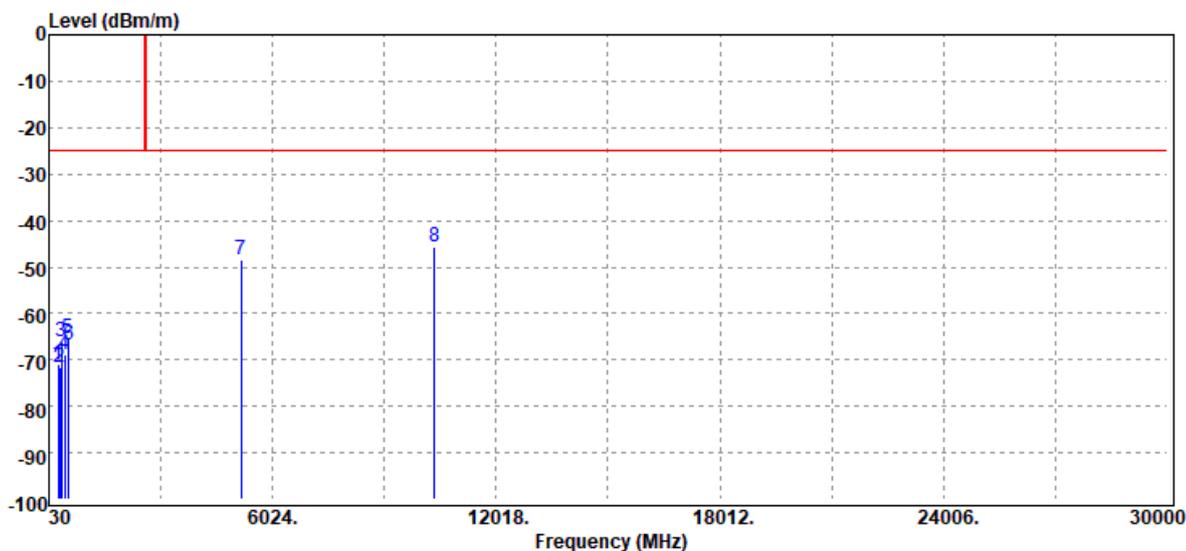
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-76.75	-79.52	4.38	-1.61	-25.00	-51.75
330.70	-73.04	-75.38	4.25	-1.91	-25.00	-48.04
361.74	-67.86	-70.39	4.48	-1.95	-25.00	-42.86
451.95	-71.59	-73.51	4.14	-2.22	-25.00	-46.59
542.16	-70.33	-72.32	4.33	-2.34	-25.00	-45.33
602.30	-74.45	-75.47	3.63	-2.61	-25.00	-49.45
5107.30	-51.76	-55.87	12.10	-7.99	-25.00	-26.76
10214.60	-44.53	-45.88	11.77	-10.42	-25.00	-19.53

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 38C	Test Date	:2021-08-20
Test Mode	:Tx CH Low	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2580 MHz_2599.8 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
270.56	-71.06	-73.50	4.09	-1.65	-25.00	-46.06
330.70	-71.78	-74.12	4.25	-1.91	-25.00	-46.78
361.74	-66.11	-68.64	4.48	-1.95	-25.00	-41.11
451.95	-68.93	-70.85	4.14	-2.22	-25.00	-43.93
542.16	-65.39	-67.38	4.33	-2.34	-25.00	-40.39
571.26	-66.89	-68.33	4.07	-2.63	-25.00	-41.89
5179.80	-48.60	-52.98	12.28	-7.90	-25.00	-23.60
10359.60	-45.84	-47.23	11.42	-10.03	-25.00	-20.84

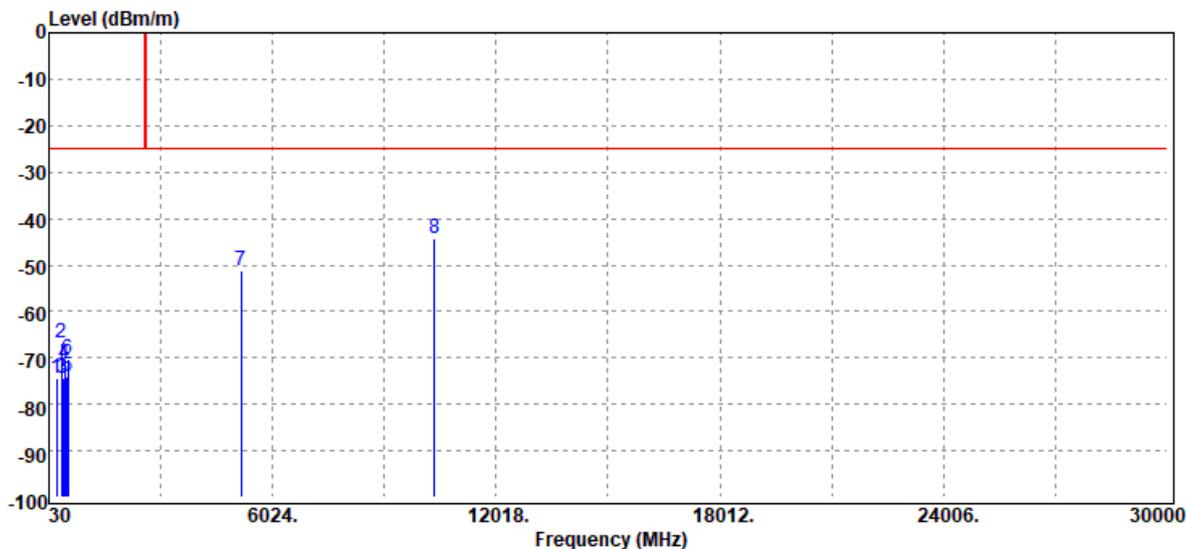
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Report Number :ER-2021-70044
 Operation Mode :ULCA 38C
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :2580 MHz_2599.8 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-74.27	-77.04	4.38	-1.61	-25.00	-49.27
361.74	-66.66	-69.19	4.48	-1.95	-25.00	-41.66
411.21	-74.53	-77.09	4.41	-1.85	-25.00	-49.53
451.95	-71.32	-73.24	4.14	-2.22	-25.00	-46.32
512.09	-74.14	-76.20	4.13	-2.07	-25.00	-49.14
541.19	-70.25	-72.28	4.38	-2.35	-25.00	-45.25
5179.80	-51.35	-55.73	12.28	-7.90	-25.00	-26.35
10359.60	-44.33	-45.72	11.42	-10.03	-25.00	-19.33

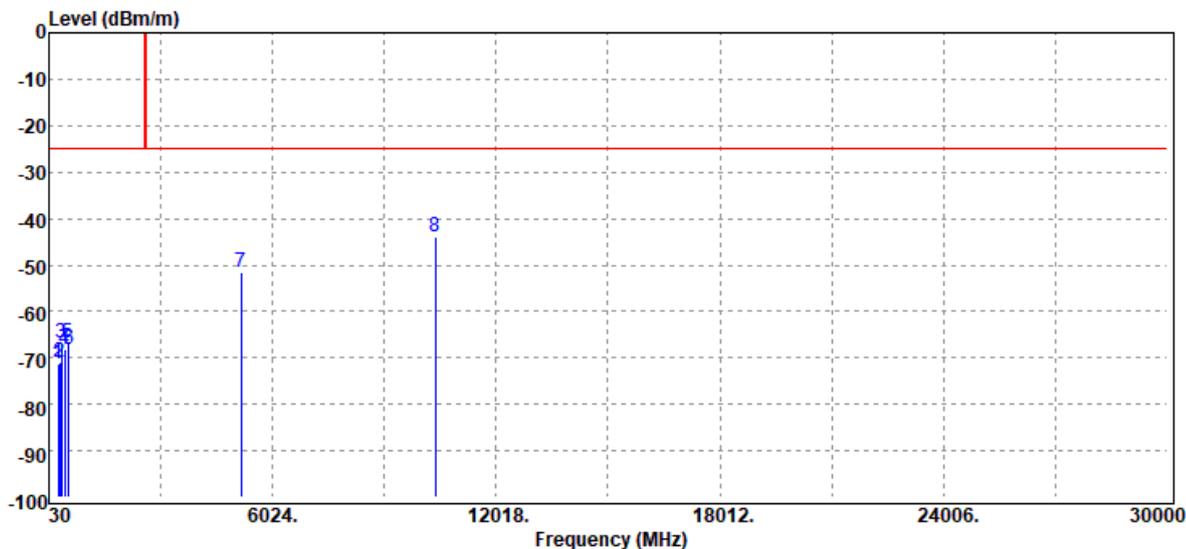
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Report Number :ER-2021-70044
 Operation Mode :ULCA 38C
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2585.1 MHz_2604.9 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



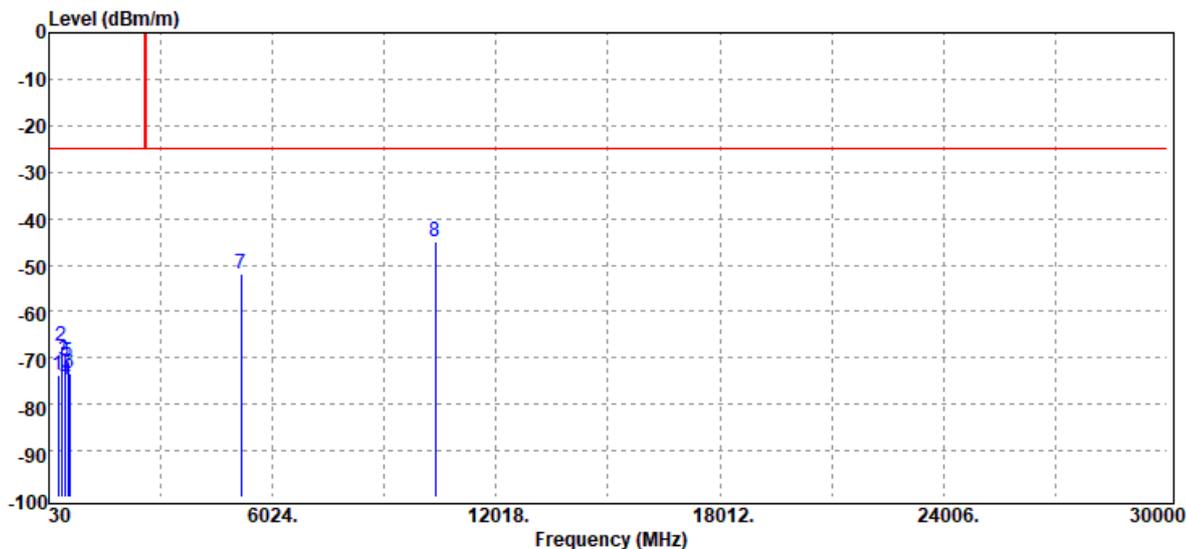
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
270.56	-71.26	-73.70	4.09	-1.65	-25.00	-46.26
330.70	-70.81	-73.15	4.25	-1.91	-25.00	-45.81
361.74	-66.65	-69.18	4.48	-1.95	-25.00	-41.65
451.95	-68.05	-69.97	4.14	-2.22	-25.00	-43.05
542.16	-66.89	-68.88	4.33	-2.34	-25.00	-41.89
571.26	-68.29	-69.73	4.07	-2.63	-25.00	-43.29
5190.00	-51.67	-56.12	12.34	-7.89	-25.00	-26.67
10380.00	-44.08	-45.40	11.36	-10.04	-25.00	-19.08

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 38C	Test Date	:2021-08-20
Test Mode	:Tx CH Mid	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2585.1 MHz_2604.9 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
270.56	-73.61	-76.05	4.09	-1.65	-25.00	-48.61
361.74	-67.39	-69.92	4.48	-1.95	-25.00	-42.39
451.95	-70.63	-72.55	4.14	-2.22	-25.00	-45.63
482.99	-74.81	-76.69	4.26	-2.38	-25.00	-49.81
542.16	-70.89	-72.88	4.33	-2.34	-25.00	-45.89
573.20	-73.31	-74.68	4.02	-2.65	-25.00	-48.31
5190.00	-51.86	-56.31	12.34	-7.89	-25.00	-26.86
10380.00	-44.92	-46.24	11.36	-10.04	-25.00	-19.92

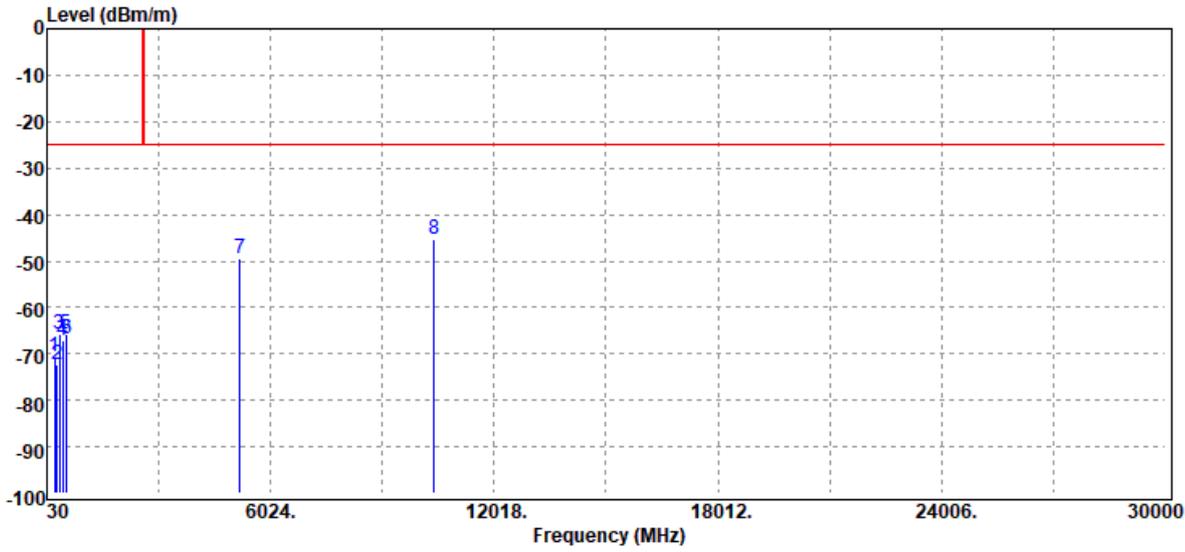
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Report Number :ER-2021-70044
 Operation Mode :ULCA 38C
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2590.2 MHz_2610 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-70.67	-73.44	4.38	-1.61	-25.00	-45.67
301.60	-72.15	-74.61	4.24	-1.78	-25.00	-47.15
361.74	-65.80	-68.33	4.48	-1.95	-25.00	-40.80
451.95	-67.10	-69.02	4.14	-2.22	-25.00	-42.10
542.16	-65.73	-67.72	4.33	-2.34	-25.00	-40.73
571.26	-66.72	-68.16	4.07	-2.63	-25.00	-41.72
5200.20	-49.46	-53.98	12.40	-7.88	-25.00	-24.46
10400.40	-45.25	-46.49	11.30	-10.06	-25.00	-20.25

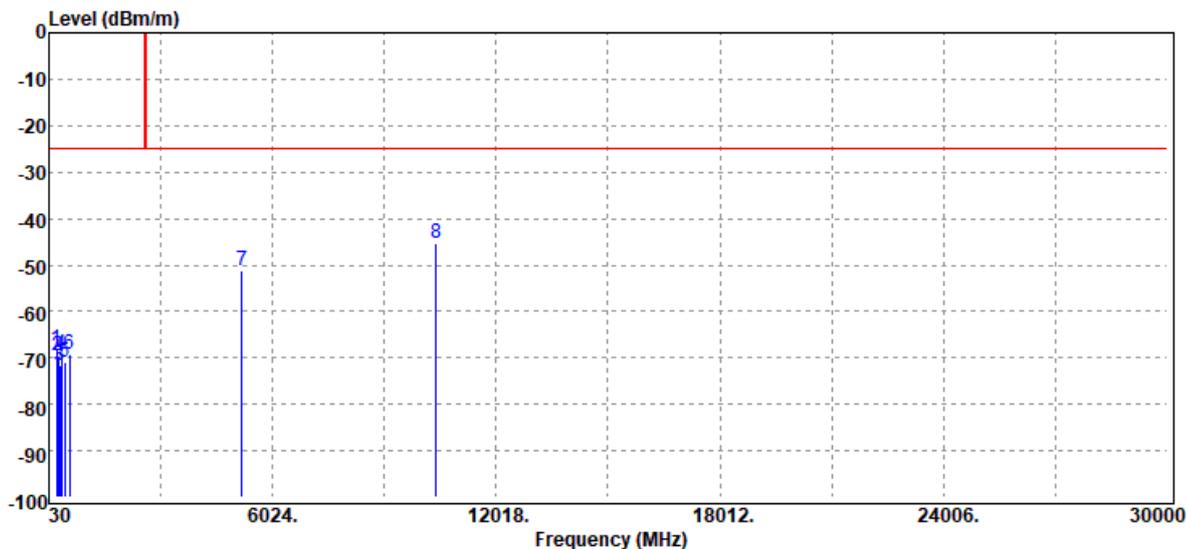
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Report Number :ER-2021-70044
 Operation Mode :ULCA 38C
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2590.2 MHz_2610 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-68.24	-71.01	4.38	-1.61	-25.00	-43.24
270.56	-69.46	-71.90	4.09	-1.65	-25.00	-44.46
332.64	-71.57	-73.93	4.27	-1.91	-25.00	-46.57
361.74	-69.19	-71.72	4.48	-1.95	-25.00	-44.19
451.95	-71.06	-72.98	4.14	-2.22	-25.00	-46.06
573.20	-69.32	-70.69	4.02	-2.65	-25.00	-44.32
5200.20	-51.21	-55.73	12.40	-7.88	-25.00	-26.21
10400.40	-45.40	-46.64	11.30	-10.06	-25.00	-20.40

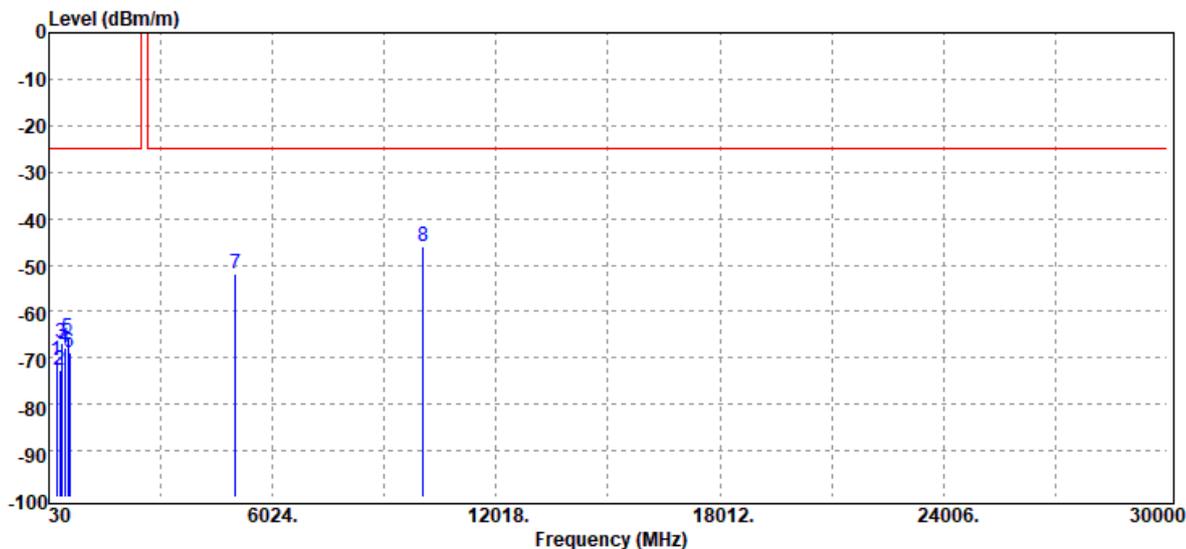
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Report Number :ER-2021-70044
 Operation Mode :ULCA 41C
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :2503.8 MHz_2520.9 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



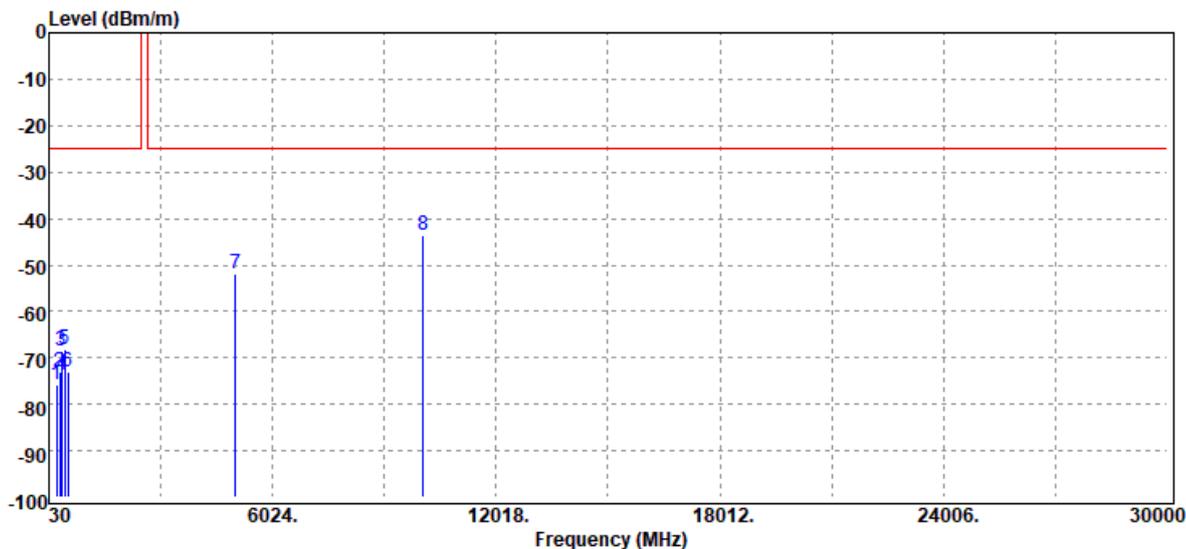
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-70.44	-73.21	4.38	-1.61	-25.00	-45.44
330.70	-72.78	-75.12	4.25	-1.91	-25.00	-47.78
361.74	-66.71	-69.24	4.48	-1.95	-25.00	-41.71
451.95	-67.67	-69.59	4.14	-2.22	-25.00	-42.67
542.16	-65.74	-67.73	4.33	-2.34	-25.00	-40.74
573.20	-69.01	-70.38	4.02	-2.65	-25.00	-44.01
5024.70	-51.85	-56.59	12.30	-7.56	-25.00	-26.85
10049.40	-45.87	-46.82	11.85	-10.90	-25.00	-20.87

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 41C	Test Date	:2021-08-20
Test Mode	:Tx CH Low	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2503.8 MHz_2520.9 MHz	Engineer	:Ricky Chen



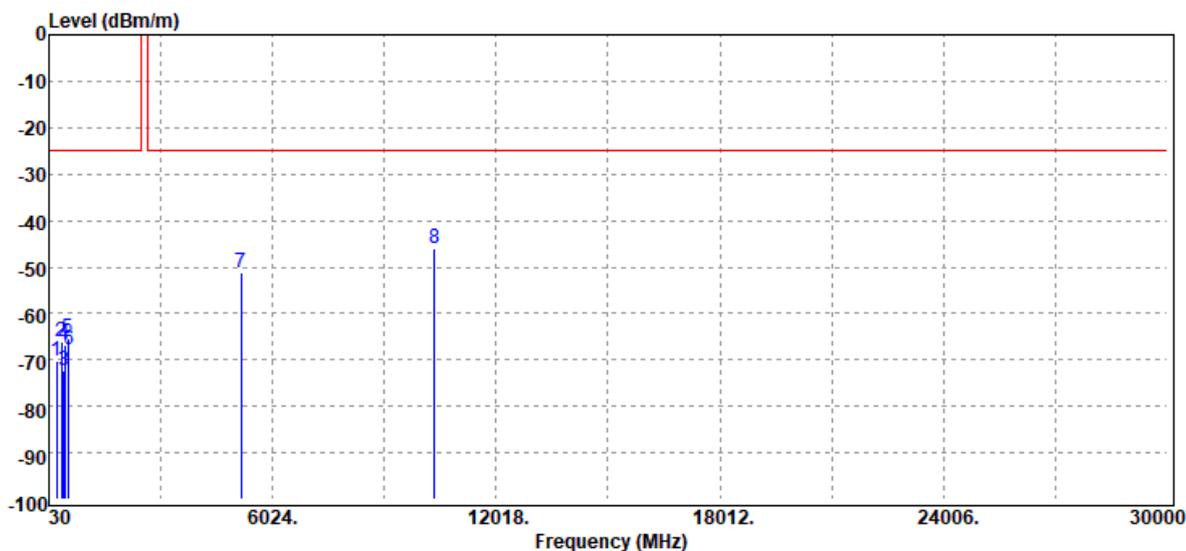
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-75.80	-78.57	4.38	-1.61	-25.00	-50.80
330.70	-72.89	-75.23	4.25	-1.91	-25.00	-47.89
361.74	-68.54	-71.07	4.48	-1.95	-25.00	-43.54
391.81	-73.70	-76.01	4.37	-2.06	-25.00	-48.70
451.95	-68.31	-70.23	4.14	-2.22	-25.00	-43.31
542.16	-72.96	-74.95	4.33	-2.34	-25.00	-47.96
5024.70	-51.73	-56.47	12.30	-7.56	-25.00	-26.73
10049.40	-43.61	-44.56	11.85	-10.90	-25.00	-18.61

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 41C	Test Date	:2021-08-20
Test Mode	:Tx CH Mid	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2583.3 MHz_2600.4 MHz	Engineer	:Ricky Chen



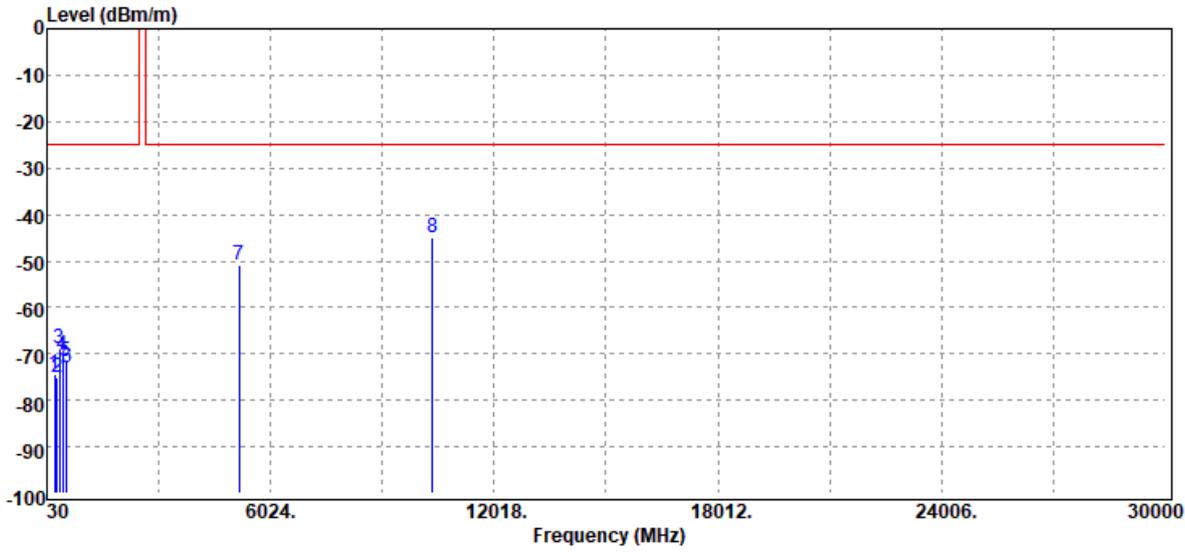
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-70.10	-72.87	4.38	-1.61	-25.00	-45.10
361.74	-66.20	-68.73	4.48	-1.95	-25.00	-41.20
420.91	-72.34	-74.65	4.21	-1.90	-25.00	-47.34
451.95	-66.82	-68.74	4.14	-2.22	-25.00	-41.82
542.16	-65.44	-67.43	4.33	-2.34	-25.00	-40.44
571.26	-67.90	-69.34	4.07	-2.63	-25.00	-42.90
5183.70	-51.08	-55.48	12.30	-7.90	-25.00	-26.08
10367.40	-45.92	-47.29	11.40	-10.03	-25.00	-20.92

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 41C	Test Date	:2021-08-20
Test Mode	:Tx CH Mid	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2583.3 MHz_2600.4 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-74.41	-77.18	4.38	-1.61	-25.00	-49.41
301.60	-75.13	-77.59	4.24	-1.78	-25.00	-50.13
361.74	-68.82	-71.35	4.48	-1.95	-25.00	-43.82
451.95	-70.07	-71.99	4.14	-2.22	-25.00	-45.07
542.16	-71.75	-73.74	4.33	-2.34	-25.00	-46.75
571.26	-73.07	-74.51	4.07	-2.63	-25.00	-48.07
5183.70	-51.03	-55.43	12.30	-7.90	-25.00	-26.03
10367.40	-45.00	-46.37	11.40	-10.03	-25.00	-20.00

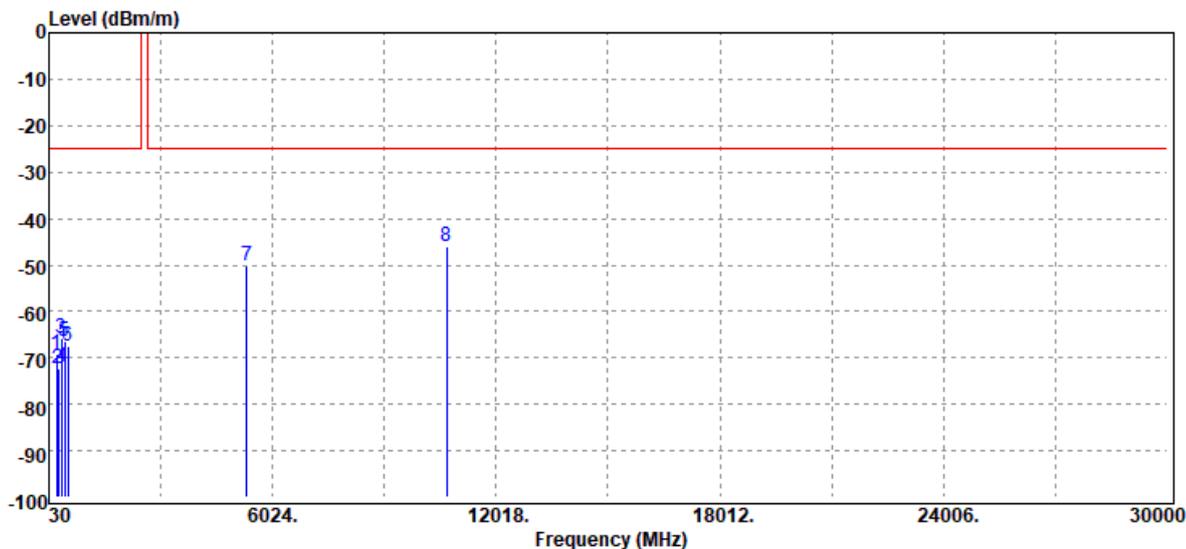
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Report Number :ER-2021-70044
 Operation Mode :ULCA 41C
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2662.9 MHz_2680 MHz

Test Site :SAC 3
 Test Date :2021-08-20
 Temp./Humi. :27.3/49
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



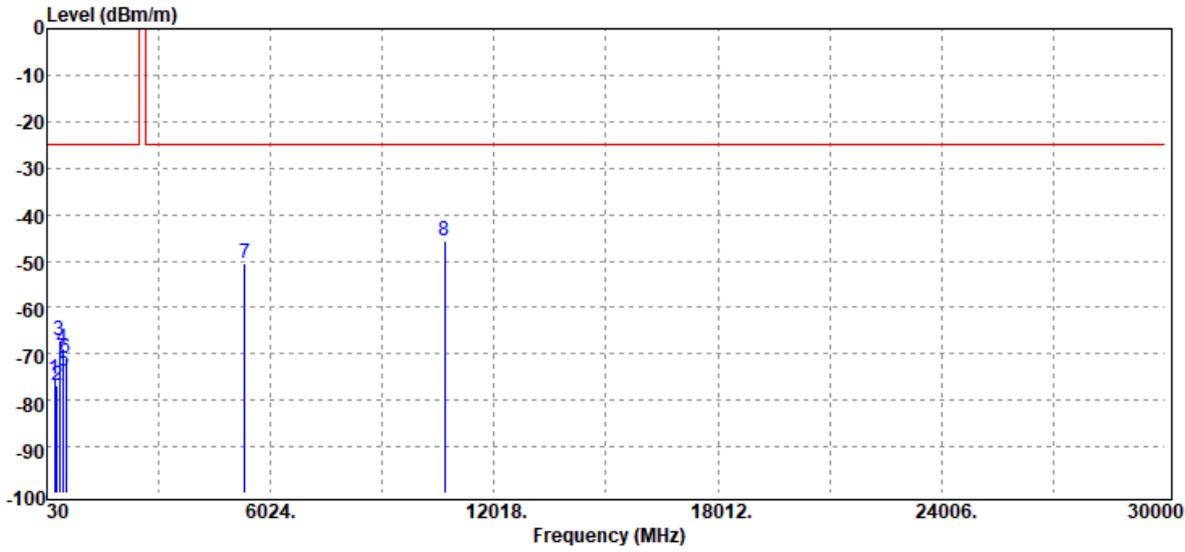
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-69.28	-72.05	4.38	-1.61	-25.00	-44.28
270.56	-72.31	-74.75	4.09	-1.65	-25.00	-47.31
361.74	-65.78	-68.31	4.48	-1.95	-25.00	-40.78
391.81	-71.81	-74.12	4.37	-2.06	-25.00	-46.81
451.95	-66.45	-68.37	4.14	-2.22	-25.00	-41.45
542.16	-67.32	-69.31	4.33	-2.34	-25.00	-42.32
5342.90	-50.23	-54.57	13.00	-8.66	-25.00	-25.23
10685.80	-46.00	-45.66	11.21	-11.55	-25.00	-21.00

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Report Number	:ER-2021-70044	Test Site	:SAC 3
Operation Mode	:ULCA 41C	Test Date	:2021-08-20
Test Mode	:Tx CH High	Temp./Humi.	:27.3/49
EUT Pol	:NB Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2662.9 MHz_2680 MHz	Engineer	:Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
240.49	-75.30	-78.07	4.38	-1.61	-25.00	-50.30
301.60	-76.98	-79.44	4.24	-1.78	-25.00	-51.98
361.74	-67.27	-69.80	4.48	-1.95	-25.00	-42.27
451.95	-69.00	-70.92	4.14	-2.22	-25.00	-44.00
482.99	-73.65	-75.53	4.26	-2.38	-25.00	-48.65
542.16	-70.83	-72.82	4.33	-2.34	-25.00	-45.83
5342.90	-50.48	-54.82	13.00	-8.66	-25.00	-25.48
10685.80	-45.80	-45.46	11.21	-11.55	-25.00	-20.80

~ End of Report ~

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